unabridged Architecture

Grand Bay NERR Outdoor Classrooms

Addendum #3 18 January 2017

The Geotechnical Report (sent in Addendum #2) indicates an option for the foundation design at the ramp portion of the project. Attached please find the revised and new structural drawings, which offer an alternate detail for supporting the ramp area of the outdoor classroom with wood piles. It is left to the Contractor's discretion which method will result in the lowest and best bid, but either foundation design is acceptable if provided as indicated in the drawings and specifications.

Minor adjustments to the Architectural drawings will be issued as Supplemental Drawings during construction. If you have any questions that are not answered by the Structural Drawings, please contact the Architect.

Please note that the construction site remains a sensitive habitat site, and that there is limited access and traction for heavy equipment. The Fire Lane is sufficient to provide access for a small drilling rig to reach the site. Please see Specification Section 02231 - Tree/Landscape Protection and Trimming for more information.

Attached:
Specification: 02459 Timber Piles
Revised Structural Drawings: S1.01-S4.02
New Structural Drawings: SA2.01, SA4.01, SA4.02

Please acknowledge receipt of this Addendum on your Bid Form.

Allison Anderson

Allison H. Anderson FAIA, LEED-AP

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SECTION 02459 – TIMBER PILES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.2 SUMMARY

A. This Section includes specifications for furnishing and installing of driven piles for structures.

B. Supply piles of the following types as indicated:

1. Timber piles, treated and driven.

1.3 REFERENCE STANDARDS

A. American Association of State Highway and Transportation Officials (AASHTO).

1. AASHTO M-133. Specification for Preservative and Pressure Treatment Process for Timber.

B. American Wood Preservers' Association (AWPA)

1. M3 Standard Quality Control Procedures for Wood Preserving Plants
2. M4 Standard for the Care of Preservative Treated Wood Products.
3. U1 Use Category System: User Specifications for Treated Wood.

1.4 SUBMITTALS

A. General: Refer to Contract Requirements for Submittals, Shop Drawings, Product Data and Samples.

B. Shop Drawings: Submit shop drawings of pile types as follows:

1. Show any structural connections such as for uplift loads.

C. Pile Driving Record: Maintain a pile driving record during pile driving and submit it to the Architect upon completion of pile driving. On the record indicate, for each pile driven, the pile size, pile tip elevation below grade, overall blow count per foot, and any unusual conditions encountered during driving.

D. Equipment Review and Drawings:

1. Submit complete list of the equipment proposed for use, including a description of the characteristics of each piece of driving equipment.

a. The Project Engineer will review the proposed driving equipment, accessories, and methods of adequacy for the conditions expected to be encountered. However, the adequacy of the equipment and accessories shall remain the responsibility of the Contractor. Should the equipment used by the Contractor prove inadequate to drive the scheduled types of piles in the locations indicated, or should the use rate of accessories show damage to the piles, or should the Progress Schedule not be maintained, the Contractor shall replace, or use different types of equipment.

2. Submit shop drawings of driving accessories showing compatibility with the size configuration, handling, and driving requirements of each type of pile indicated on the Contract Drawings.
3. Submit shop drawings showing the methods and equipment proposed for loading test piles.

E. Submit data on round timber pile treatment data, including certification by treating plant stating type of preservative solution and pressure process used, net amount of preservative retained, and compliance with applicable standards.

1.5 DELIVERY, STORAGE AND HANDLING

A. Handling, storage and field fabrication, including treating of cut ends, shall be in accordance with AWPA M4.

PART 2 - PRODUCTS

2.1 TIMBER PILES

A. Square Timber Piles: Piles shall be Southern Pine, number 2 or better, treated, one piece from butt to tip.

B. Pressure treatment shall be in accordance with AWPA Use Category Standard UC5B.

C. Field treatment of cut ends and holes shall be in accordance with AWPA M4.

D. Preservatives and Retentions: Minimum of 2.5 CCA

E. Fabrication

1. Field-Applied Wood Preservative: Treat field cuts, holes, and other penetrations in accordance with AWPA M4.

PART 3 - EXECUTION

3.1 PILE TYPES

A. Piles are friction type. Drive friction piles to the required penetration as indicated.

3.2 INSTALLATION OF PILES

A. General: Provide piles of the type and length indicated

B. Penetration: Install piles to the required penetration.

C. Pile Driving:

1. If necessary, provide adequate lateral support for installed individual piles to prevent excessive temporary flexural stresses or movement of the pile top out of tolerance.

2. Maintain the hammer coaxial with the pile during the driving operation by using a combination of driving cap and leads.

3. Investigate any sudden decrease I driving resistance for possible breakage of the pile. If sudden decrease in driving resistance cannot be correlated to boring data or some incident in the driving, and if the pile cannot be inspected, such decrease in driving resistance may be cause for rejection of the pile.

4. Re-drive any pile which is raised during driving of adjacent piles, to the original tip elevation.

5. Cut off piles at top elevation indicated. Replace or repair piles which are damaged when cut off.

D. Installation Tolerances:

1. Deviation from plumb and angle of batter: 1/4 inch per foot of pile length, but not more than 6 inches overall.

2. Deviation from location of pile top: 2 inches.

E. When the area of the head of a timber pile is greater than that of the face of the hammer, use a suitable cap to distribute the blows throughout the cross section o the pile.

F. After timber piles are cut off, treat cut surfaces in accordance with AWPA M4. Remove cutoff sections of piles from the site and legally dispose.

END OF SECTION 02459

GENERAL NOTES

DESIGN CRITERIA FOR PRIMARY STRUCTURAL SYSTEM

1. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE

2. DESIGN LIVE LOADS:

A.	DECK FLOOR	100 PSF

3. LIVE LOADS ARE NOT REDUCED.

4. WIND LOAD DESIGN CRITERIA:

A.	RISK CATEGORY	I
B.	ULTIMATE DESIGN WIND SPEED	150 MPH
C.	NOMINAL DESIGN WIND SPEED	116 MPH
D.	EXPOSURE	C
E.	INTERNAL PRESSURE COEFFICIENT	NA

5. SEISMIC DESIGN CRITERIA:

A.	SEISMIC RISK CATEGORY	I
B.	IMPORTANCE FACTOR	1.0
C.	SPECTRAL RESPONSE ACCELERATIONS:	
	Ss	0.10 G
	S1	0.06 G
D.	SITE CLASS	D
E.	SPECTRAL RESPONSE COEFFICIENTS:	
	Sds	0.107
	Sd1	0.096
F.	SEISMIC DESIGN CATEGORY	B
G.	BASIC SEISMIC-FORCE-RESISTING SYSTEM:	TIMBER FRAMES
H.	SEISMIC RESPONSE COEFFICIENT, Cs	0.07
I.	RESPONSE MODIFICATION FACTOR, R	1.5
J.	BASE SHEAR,	2.0 PSF
K.	ANALYSIS METHOD	EQUIV LATERAL FORCE

6. GROUND SNOW LOAD 0 PSF

DRAWINGS

1. ANY BACKGROUND DRAWINGS SHOWN ON THE STRUCTURAL PLANS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL AND OTHER DRAWINGS FOR ACTUAL REQUIREMENTS OF NON-STRUCTURAL ELEMENTS.

2. STRUCTURAL DRAWINGS SHOW ELEVATIONS AND RELATIONSHIPS OF STRUCTURAL ELEMENTS IN THEIR FINAL POSITION. CONSTRUCTION MEANS AND METHODS SHALL ALLOW FOR CAMBERS, LOSS OF CAMBER DURING CONSTRUCTION LOADING, DEFLECTIONS, AND NORMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING CONSTRUCTION.

3. SECTIONS AND DETAILS INDICATED AS TYPICAL SECTIONS AND TYPICAL DETAILS SHALL BE USED AT ALL LOCATIONS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS.

EXISTING CONDITIONS

1. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO START OF SHOP DRAWINGS OR CONSTRUCTION. WHERE INDICATED ON DRAWINGS, SUBMIT RECORD OF FIELD CONDITIONS TO ARCHITECT.

2. EXISTING CONDITIONS REQUIRING MODIFICATIONS TO DOCUMENTS FOR PROPOSED CONSTRUCTION SHALL BE IMMEDIATELY SUBMITTED TO ARCHITECT.

SUBMITTALS

1. REVIEW OF SUBMITTAL INFORMATION SHALL BE FOR GENERAL REQUIREMENTS OF PROJECT; AND SHALL NOT INCLUDE CHECKING OF DETAILED DIMENSIONS OR DETAILED QUANTITIES, NOR REVIEW OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE WORK SITE, OR MEANS AND METHODS OF DOING WORK.

2. CONTRACTOR SHALL CHECK ALL SHOP DRAWING SUBMITTALS FOR COMPLIANCE WITH CONTRACT DOCUMENTS.

3. CONTRACTOR SHALL INDICATE CHECKING AND APPROVAL OF SHOP DRAWINGS BY AFFIXING HIS SHOP DRAWING STAMP WITH THE DATE OF APPROVAL AND NAME OF PERSON APPROVING SHOP DRAWINGS.

4. CONSTRUCTION SCHEDULE SHALL ALLOW 2 WEEKS FOR SHOP DRAWING REVIEW AND RETURN BY THE STRUCTURAL ENGINEER. REVIEW BY THE DESIGN TEAM SHALL BE FOR GENERAL COMPLIANCE WITH THE COMPLIANCE WITH THE CONTRACT DOCUMENTS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL QUANTITIES, DIMENSIONS, CONSTRUCTION MEANS, METHODS, AND JOB SITE SAFETY.

6. ACTIONS TAKEN ON THE SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH CONTRACT DOCUMENTS.

FIRE RESISTANCE OF STRUCTURAL ELEMENTS

1. THE STRUCTURE IS NOT FIRE RATED.

HELICAL PILES

1. HELICAL PILES SHALL BE DESIGNED AND INSTALLED BY CONTRACTOR FOR LOADS AND AT LOCATIONS INDICATED ON DRAWINGS.

2. HELICAL PILES SHALL HAVE THE FOLLOWING MINIMUM FACTORS OF SAFETY:

   A. GRAVITY LOADS: 2.0
   B. LOADS WITH NET TENSION: 2.0

3. HELICAL PILES SHALL BE DESIGNED AND INSTALLED TO HAVE THE FOLLOWING MAXIMUM MOVEMENT AT PILE HEAD:

   A. LONG TERM PERMANENT SETTLEMENT: 1/2"
   B. LATERAL MOVEMENT DUE TO SPECIFIED LATERAL LOADS: 3/4".

STRUCTURAL STEEL ELEMENTS

1. ALL STRUCTURAL STEEL PLATES, ANGLES AND CONNECTION MATERIALS SHALL CONFORM TO ASTM A36 AND SHALL BE GALVANIZED PER ASTM 153.

2. ALL BOLTS SHALL BE GALVANIZED ASTM A307. PROVIDE WASHERS UNDER ALL NUTS AND HEADS.

WOOD FRAMING NOTES

1. DIMENSION LUMBER USED FOR STRUCTURAL FRAMING SHALL BE KILN DRIED, VISUALLY GRADED No. 2 GRADE SOUTHERN PINE WITH AN ALLOWABLE BENDING STRESS OF 1,500 PSI, MINIMUM; 175 PSI IN HORIZONTAL SHEAR; AND SHALL HAVE A MODULUS OF ELASTICITY OF 1,600,000 PSI FOR NORMAL LOAD DURATION AND DRY SERVICE CONDITIONS..

2. NAILING OF FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UNIFORM BUILDING CODE, U.N.O.

3. CONNECTORS FOR WOOD FLOOR JOISTS TO SUPPORTING BEAMS SHALL BE "SIMPSON STRONG-TIE CONNECTORS" OR EQUAL. TYPE OF CONNECTORS AND INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR SEVERE EXPOSURE, U.N.O.

4. MULTIPLE MEMBER WOOD BEAMS SHALL BE BOLTED TOGETHER WITH ONE 3/4" DIAMETER BOLT TOP AND BOTTOM OVER ALL SUPPORTS AND/OR AT ENDS OF BEAM IN ADDITION, PROVIDE 1/2" DIAMETER BOLTS AT 2'-0" ON CENTER STAGGERED (TOP AND BOTTOM) FULL LENGTH OF BEAM.

5. MULTIPLE MEMBER WOOD COLUMNS SHALL BE BOLTED TOGETHER WITH TWO 3/4" DIAMETER BOLTS TOP AND BOTTOM AND TWO 1/2" DIAMETER BOLTS AT THIRD HEIGHT OF THE COLUMN, U.N.O.

6. UNLESS SHOWN OTHERWISE, BEAM-TO-COLUMN CONNECTIONS SHALL BE WITH "SIMPSON STRONG TIE" METAL COLUMN CAPS, NAILED FOR BEAMS 2 INCHES IN WIDTH OR LESS, AND BOLTED FOR BEAMS GREATER THAN 2 INCHES IN WIDTH.

7. PROVIDE MINIMUM OF 3" BEARING AT EACH END OF BEAMS BEARING ON HELICAL PILE CONNECTOR SHOE. TWO BEAMS BEARING ON ONE HELICAL PILE CONNECTOR SHOE SHALL BEAR SYMMETRICALLY ABOUT THE CENTER OF THE PILE. SINGLE BEAMS BEARING ON A SINGLE PILE CONNECTOR SHOE SHALL EXTEND ACROSS THE FULL WIDTH OF THE SHOE.

8. ERECT ALL DIMENSION LUIMBER AND TIMBER FRAMING WITH NATURAL CROWN UP.

TIMBER PILES

1. PROVIDE TIMBER PILES AS INDICATED ON SHEETS SA2.01, SA4.01 AND SA4.02.

2. TIMBER USED FOR PILES SHALL BE ROUGH SAWN VISUALLY GRADED No. 2 GRADE OR BETTER SOUTHERN PINE WITH AN ALLOWABLE BENDING STRESS OF 1,500 PSI, MINIMUM; 175 PSI IN HORIZONTAL SHEAR; AND SHALL HAVE A MODULUS OF ELASTICITY OF 1,600,000 PSI FOR NORMAL LOAD DURATION AND DRY SERVICE CONDITIONS.

3. TIMBER PILES SHALL BE TREATED IN ACCORDANCE WITH SPECIFICATIONS.

4. PILES SHALL BE DRIVEN TO DEPTH REQUIRED TO PROVIDE SCHEDULED EMBEDMENT.

5. HOLES DRILL IN PILES FOR BOLTED CONNECTIONS SHALL BE 1/16 INCH LARGER IN DIAMETER THAN BOLT DIAMETER.

6. CUTS MADE TO TIMBER PILES FOR BEAM CONNECTIONS SHALL BE SQUARE TO THE FACE OF THE PILE AND AT THE SLOPE OF THE SUPPORTED BEAM SUCH THAT BEARING AREA IS PROVIDED FOR THE FULL LENGTH AND WIDTH OF THE BEAM.

1

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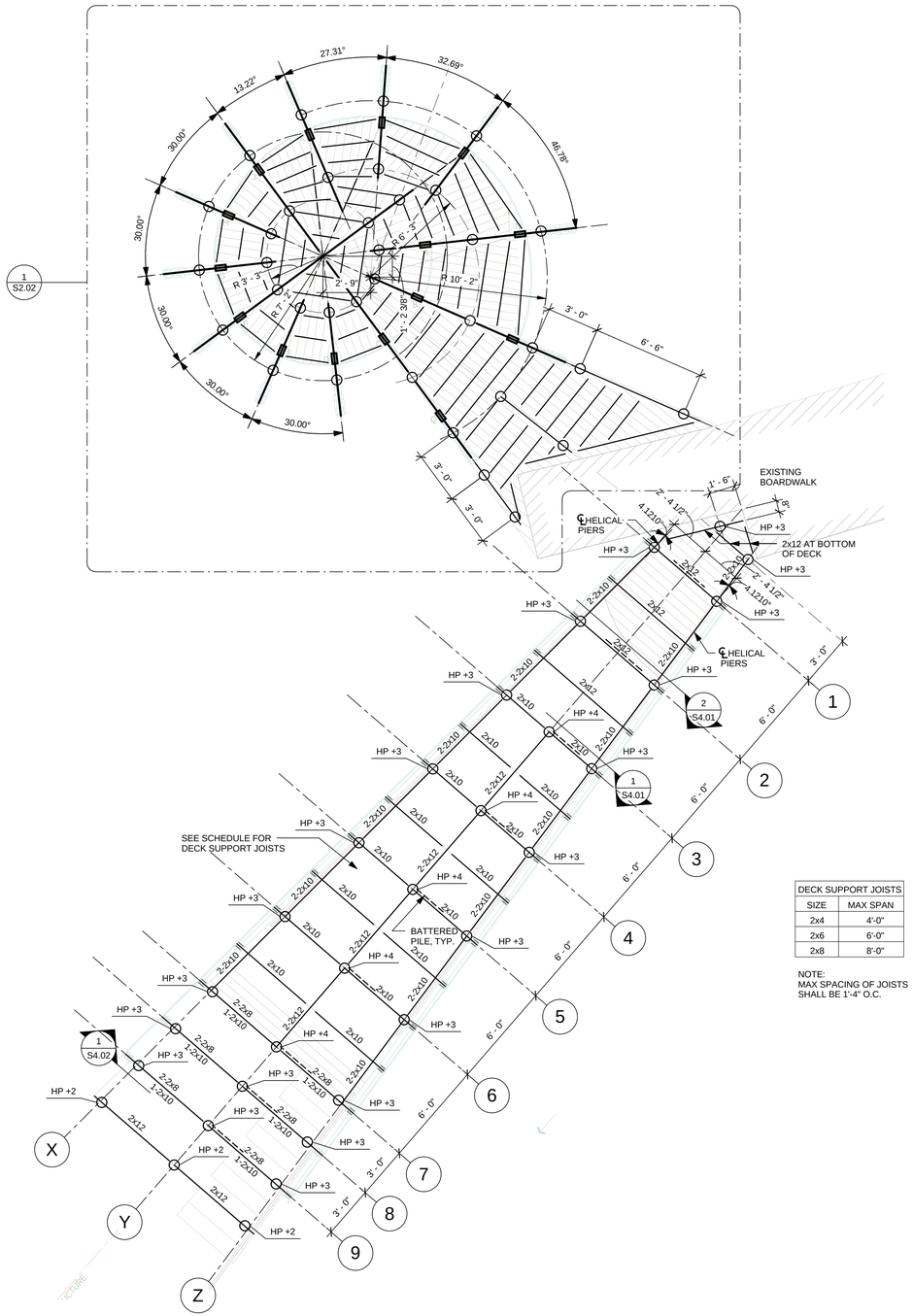
1 ADDENDUM #3 JAN 18, 2017

GENERAL NOTES

GRAND BAY NERR
OUTDOOR PAVILION
MOSS POINT, MS

10/14/2016 S1.01



DECK SUPPORT JOISTS	
SIZE	MAX SPAN
2x4	4'-0"
2x6	6'-0"
2x8	8'-0"

NOTE:
MAX SPACING OF JOISTS SHALL BE 1'-4" O.C.

1 FOUNDATION AND FRAMING PLAN
1/4" = 1'-0"

PLAN NOTES:

1. SEE ARCHITECTURAL FOR ELEVATIONS AND DIMENSIONS NOT SHOWN.

HP X — REQUIRED SERVICE LOAD CAPACITY (KIPS)
+ INDICATES DOWNWARD LOAD
- INDICATES UPLIFT LOAD

HELICAL P I E R L E G E N D

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FOUNDATION AND FRAMING PLAN

GRAND BAY NERR

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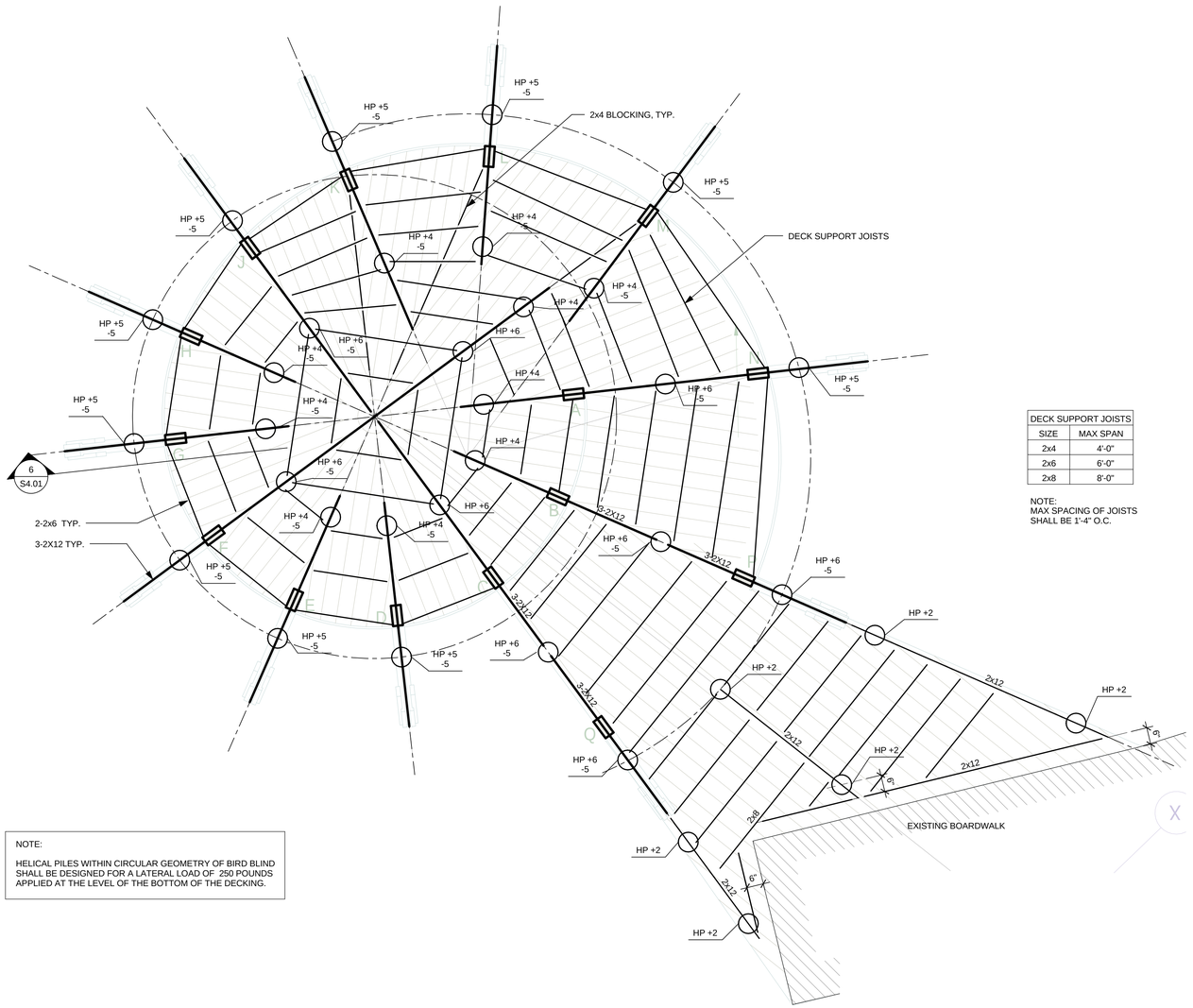
10/14/2016

S2.01



DECK SUPPORT JOISTS	
SIZE	MAX SPAN
2x4	4'-0"
2x6	6'-0"
2x8	8'-0"

NOTE:
MAX SPACING OF JOISTS SHALL BE 1'-4" O.C.

NOTE:

HELICAL PILES WITHIN CIRCULAR GEOMETRY OF BIRD BLIND SHALL BE DESIGNED FOR A LATERAL LOAD OF 250 POUNDS APPLIED AT THE LEVEL OF THE BOTTOM OF THE DECKING.

1 BIRD BLIND ENLARGED PLAN
1/2" = 1'-0"

PLAN NOTES:

1. SEE ARCHITECTURAL FOR ELEVATIONS AND DIMENSIONS NOT SHOWN.

HP X — REQUIRED SERVICE LOAD CAPACITY (KIPS)
+ INDICATES DOWNWARD LOAD
- INDICATES UPLIFT LOAD

HELICAL P I E R L E G E N D

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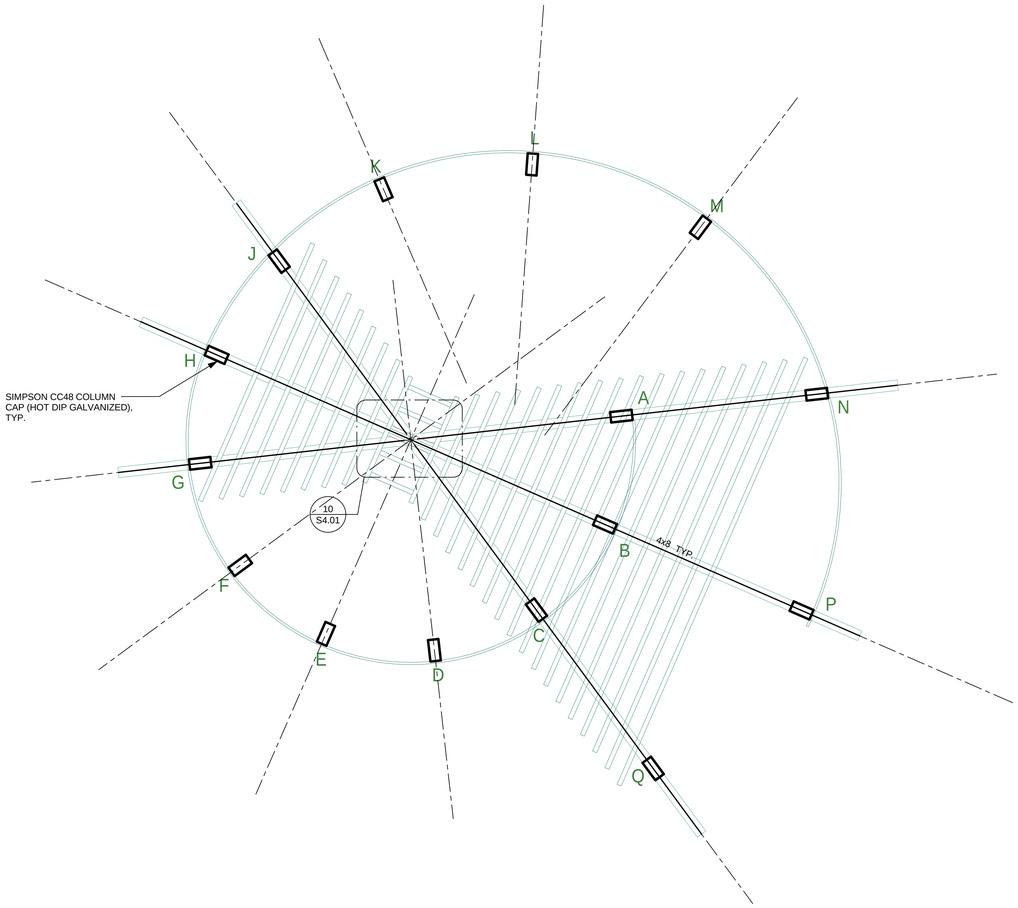
ENLARGED PLAN

GRAND BAY NERR

OUTDOOR PAVILION
MOSS POINT, MS

10/14/2016

S2.02



1 TRELLIS FRAMING PLAN
1/2" = 1'-0"

PLAN NOTES:

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TRELLIS
FRAMING PLAN

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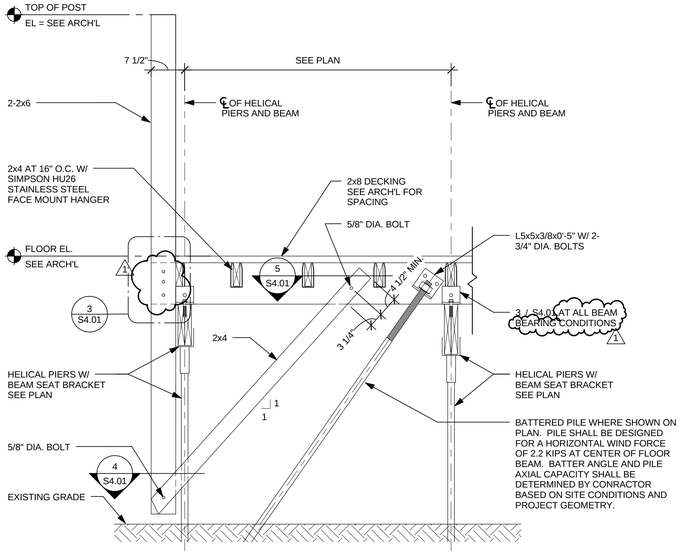
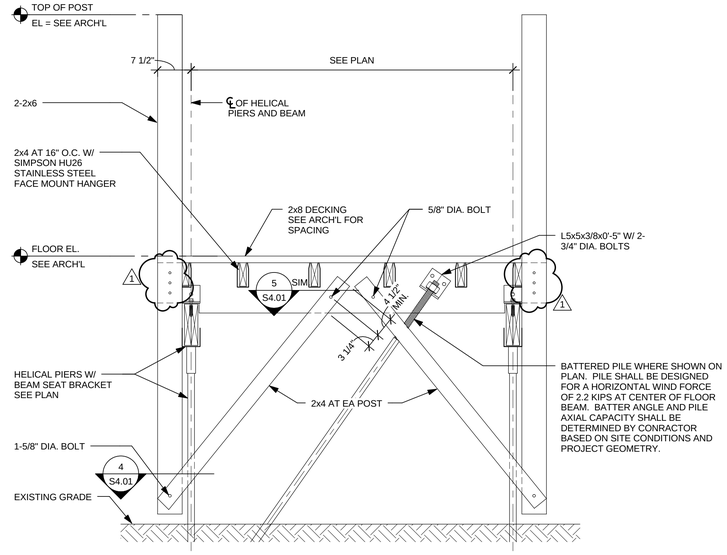
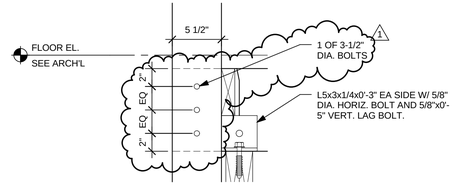
S2.03



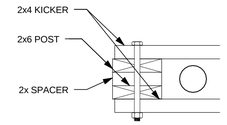
1 SECTION
3/4" = 1'-0"



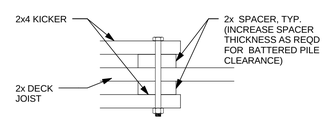
2 SECTION
3/4" = 1'-0"



3 SECTION
1 1/2" = 1'-0"



4 SECTION
1 1/2" = 1'-0"



5 SECTION
1 1/2" = 1'-0"

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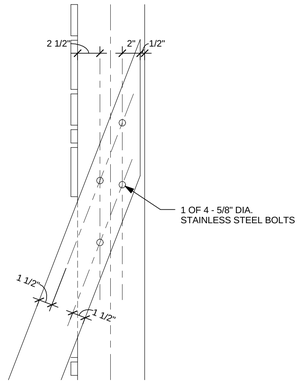
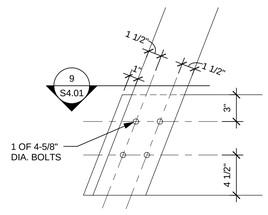
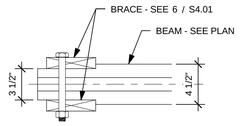
6 SECTION
3/4" = 1'-0"



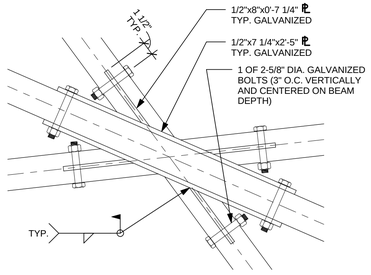
7 SECTION
1 1/2" = 1'-0"



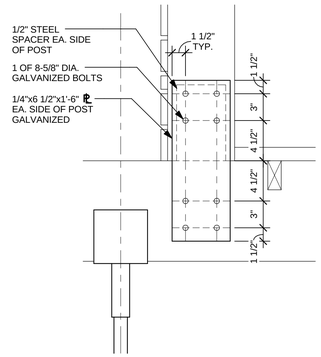
8 SECTION
1 1/2" = 1'-0"



9 PLAN
1 1/2" = 1'-0"



10 PLAN
1 1/2" = 1'-0"



11 SECTION
1 1/2" = 1'-0"

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1 ADDENDUM #3
JAN 18, 2017

SECTIONS AND DETAILS

GRAND BAY NERR
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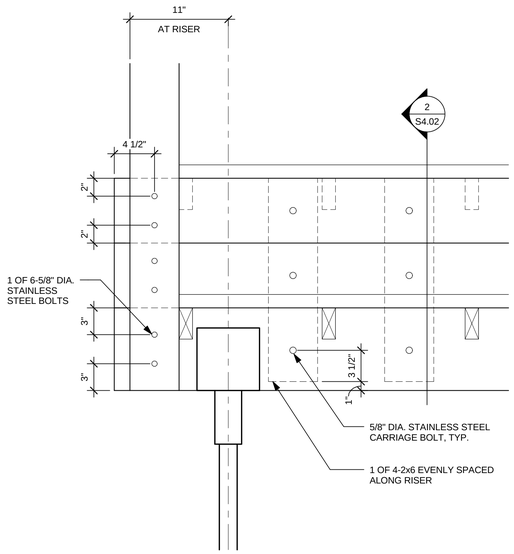
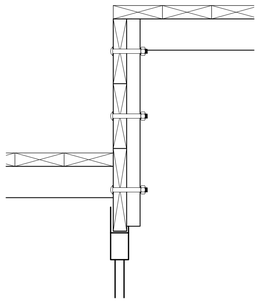
MOSS POINT, MS

10/14/2016

S4.01



1 SECTION
1 1/2" = 1'-0"



2 SECTION
1 1/2" = 1'-0"

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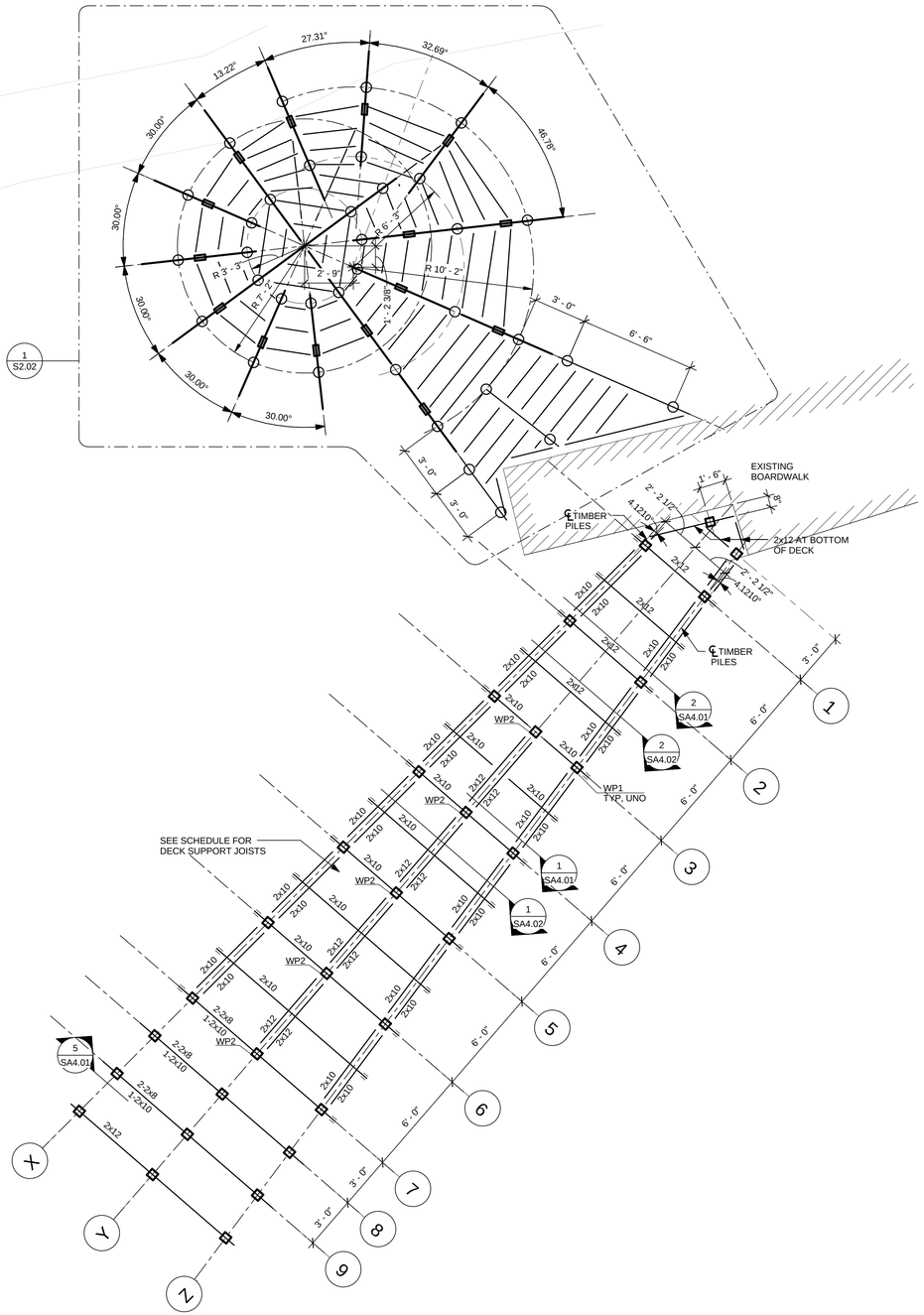
SECTIONS AND DETAILS

GRAND BAY NERR

OUTDOOR PAVILION
MOSS POINT, MS

10/14/16

S4.02



1 ALTERNATE FOUNDATION AND FRAMING PLAN
1/4" = 1'-0"

PLAN NOTES:

1. SEE ARCHITECTURAL FOR ELEVATIONS AND DIMENSIONS NOT SHOWN.

WPX — TIMBER PILE MARK SEE SA4.01 FOR SCHEDULE AND DETAILS

TIMBER PILE LEGEND

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BAY ST LOUIS, MS 39520
228.467.1149

TOM R. HERRIN — LICENSED PROFESSIONAL ENGINEER — 17438 — STATE OF MISSISSIPPI

THE SEAL APPEARING ON THIS DRAWING WAS AUTHORIZED BY TOM R. HERRIN, P.E. #17438 ON 01/18/17

BALDAUF ■ HERRIN & ASSOCIATES, INC.
9696 Skillman St. Suite 270
Dallas, TX 75243
214-341-4850 fax
214-341-7575 vox
BHA #2016037

1 ADDENDUM #3 JAN 18, 2017

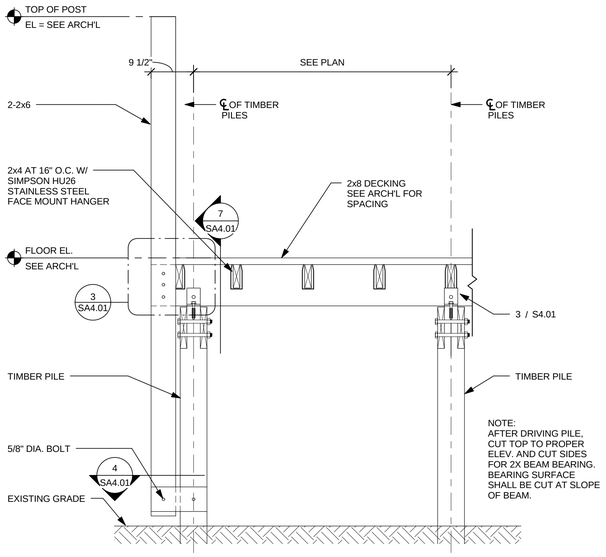
FOUNDATION AND FRAMING PLAN

GRAND BAY NERR

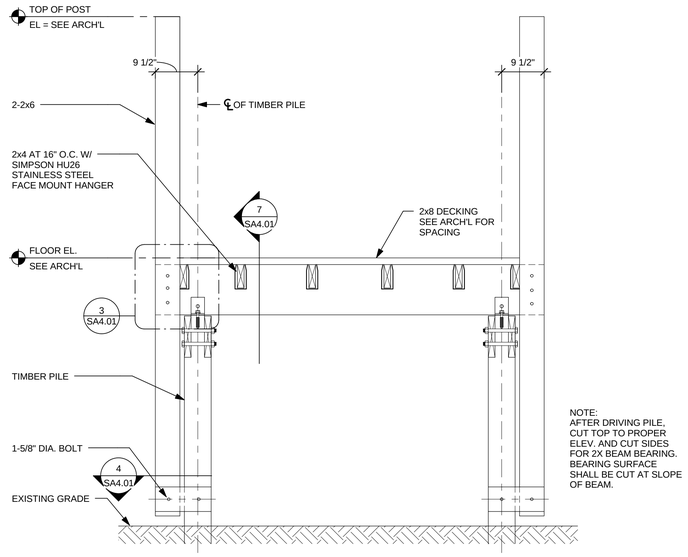
OUTDOOR PAVILION
MOSS POINT, MS

01/18/17

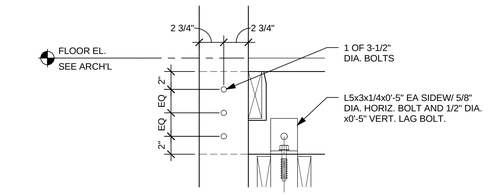
SA2.01



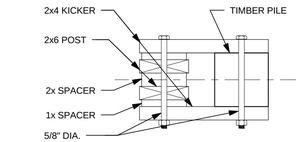
1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"

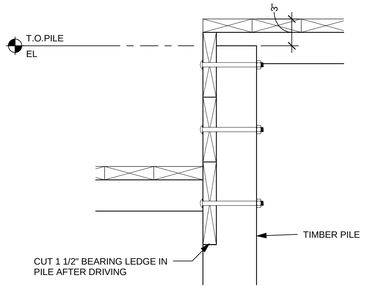


3 SECTION
1 1/2" = 1'-0"

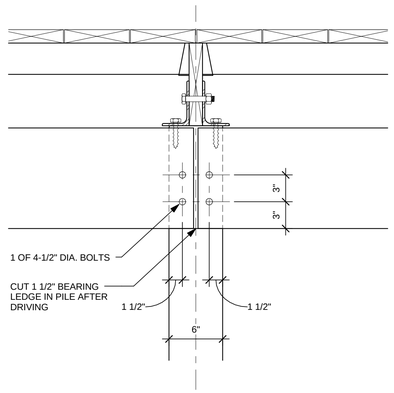


4 SECTION
1 1/2" = 1'-0"

5 SECTION
1 1/2" = 1'-0"



6 SECTION
1 1/2" = 1'-0"



7 SECTION
1 1/2" = 1'-0"

PILE SCHEDULE		
MARK	SQUARE PILE DIMENSION	EMBEDMENT
WP1	6"	6'-0" MIN.
WP2	6"	10'-0" MIN.

NOTE: TIMBER PILES SHALL BE FULL SCHEDULED DIMENSION.

TIMBER PILE DETAIL

8 TYPICAL DETAIL
3/4" = 1'-0"

9 SECTION
1 1/2" = 1'-0"

UNABRIDGED ARCHITECTURE PLLC
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SECTIONS AND DETAILS

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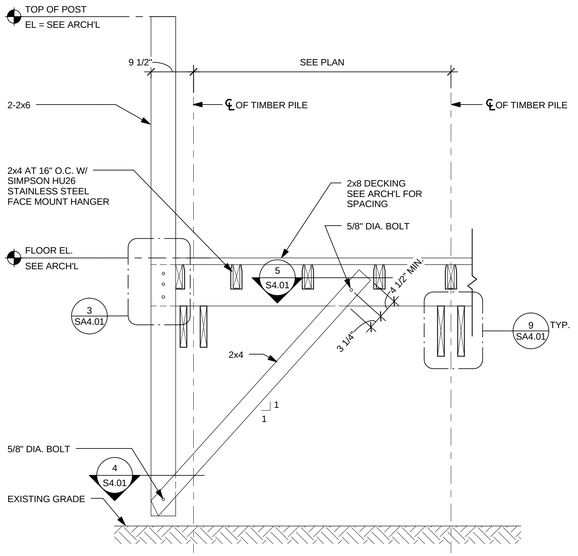
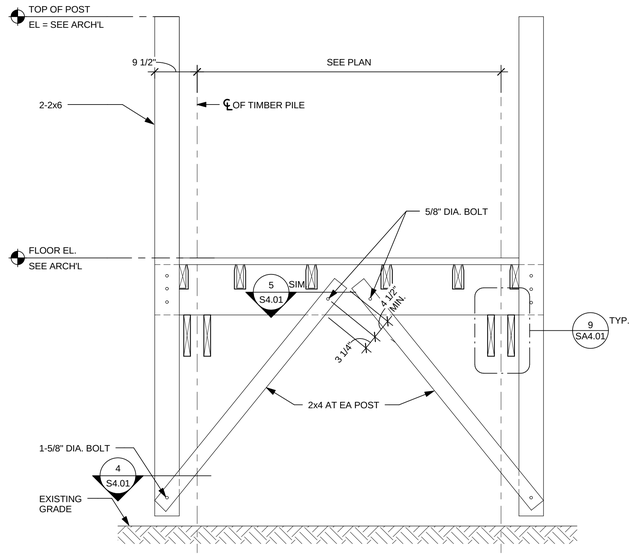
01/18/17 SA4.01



1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"

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SECTIONS AND DETAILS

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01/18/17 SA4.02