

# TOWN GREEN AMPHITHEATER

Attachment 04

## STRUCTURAL REPAIRS OF COLUMNS

144 MAPLE AVENUE E  
VIENNA, VA 22180

ISSUED FOR VIENNA BAR REVIEW  
SEPTEMBER 30, 2025

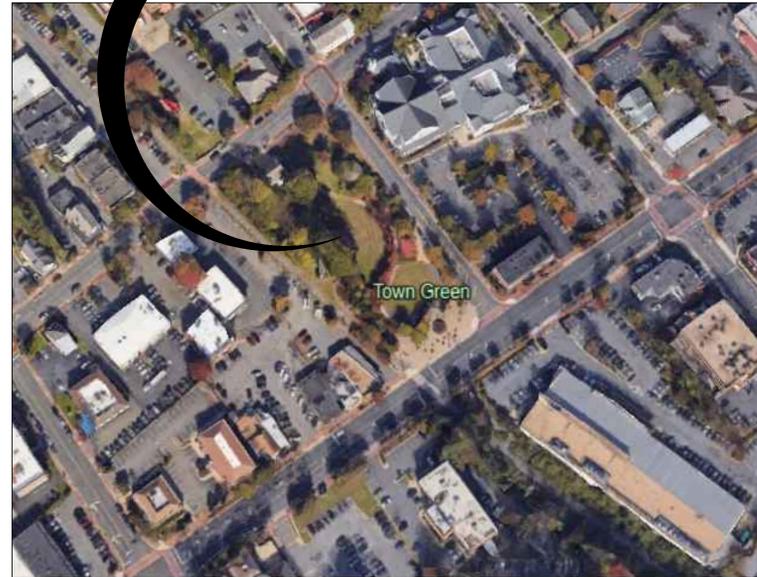
PROJECT LOCATION



LOCATION MAP

NOT TO SCALE  
COPYRIGHT ADC THE MAP PEOPLE  
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WORK AREA



LOCATION MAP

NOT TO SCALE  
SATELLITE IMAGE FROM GOOGLE EARTH

### LIST OF DRAWINGS

SHEET	DRAWING NO.	DRAWING TITLE
1	G0.01	COVER SHEET
2	S0.01	GENERAL STRUCTURAL NOTES, LOADS, AND CODES AND STANDARDS
3	S1.01	DEMOLITION FLOOR PLAN
4	S1.02	CONSTRUCTION FLOOR PLAN
5	S5.01	DEMOLITION SECTIONS AND DETAILS
6	S5.02	CONSTRUCTION SECTIONS AND DETAILS
7	S5.03	CONSTRUCTION SECTIONS AND DETAILS
8	A1.01	DEMOLITION FLOOR PLAN
9	A5.01	ELEVATIONS
10	A10.01	ARCHITECTURAL SPECIFICATIONS
11	A10.02	ARCHITECTURAL SPECIFICATIONS
12	A10.03	ARCHITECTURAL SPECIFICATIONS

REVISIONS	

CLIENT INFORMATION
TOWN OF VIENNA

TOWN GREEN AMPHITHEATER - COLUMN REPAIRS
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KEY PLAN

GRAPHIC SCALES

SIGNATURE



Whitman, Requardt & Associates, LLP  
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

COVER SHEET
DRAWING NO.
G0.01

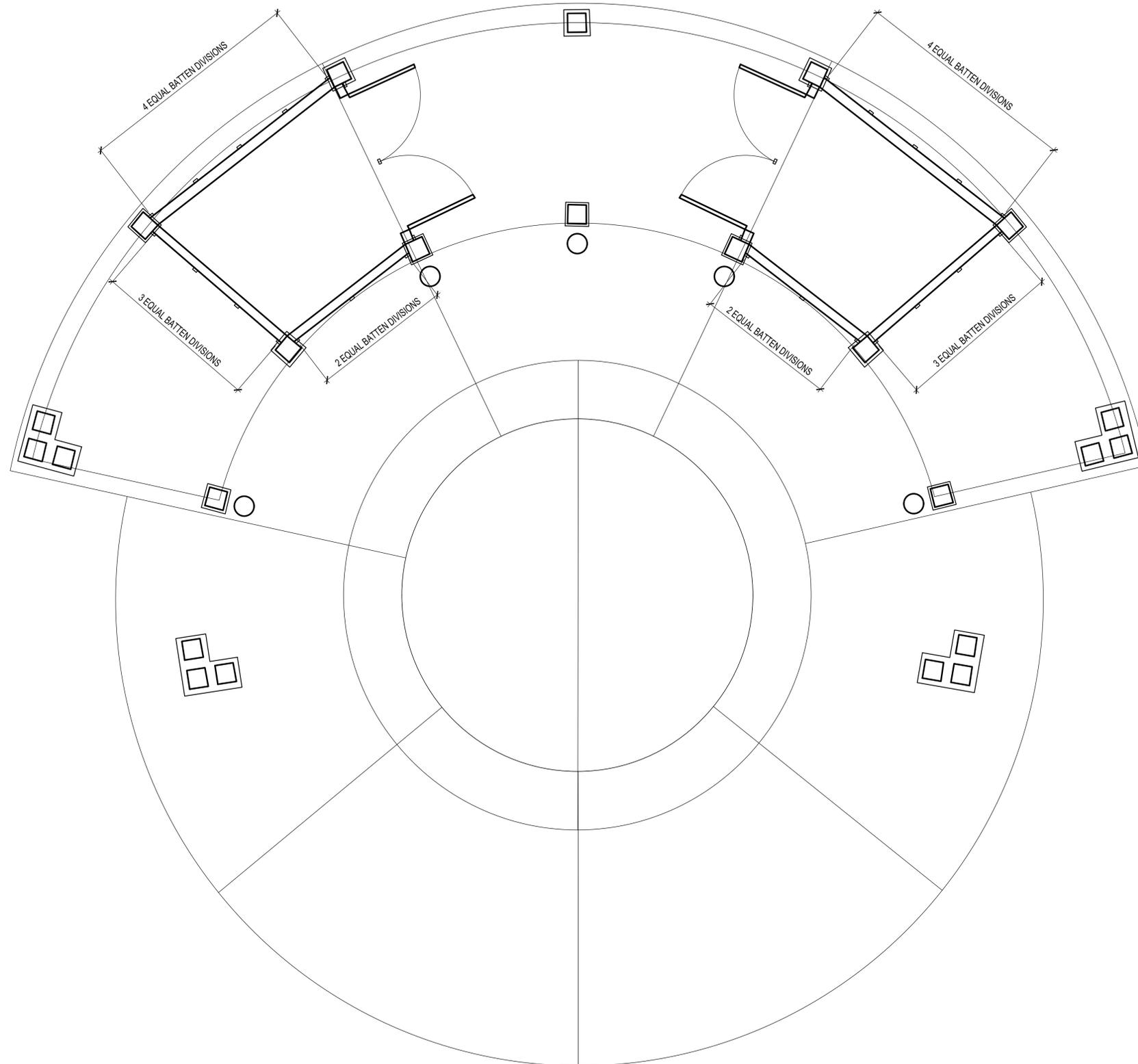
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**GENERAL SHEET NOTES**

1. PREPARE ALL EXISTING SURFACES TO RECEIVE NEW PAINT FINISHES PER MANUFACTURER'S WRITTEN REQUIREMENTS.



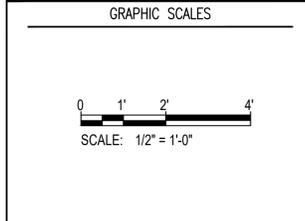
A  
A101 **FLOOR PLAN**  
SCALE: 1/2" = 1'-0"  
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DEMOLITION FLOOR PLAN  
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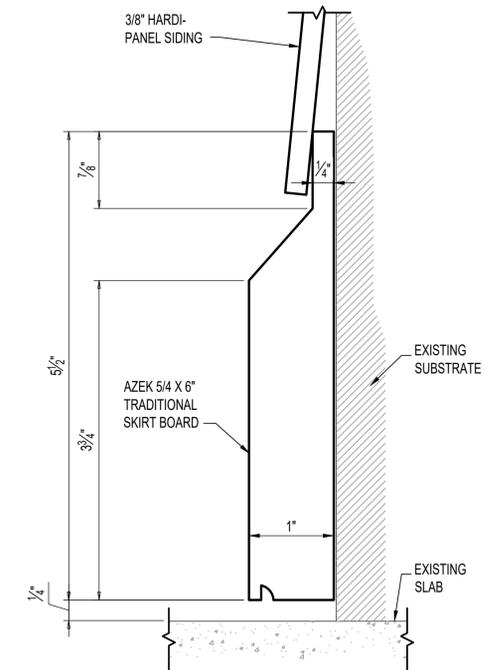
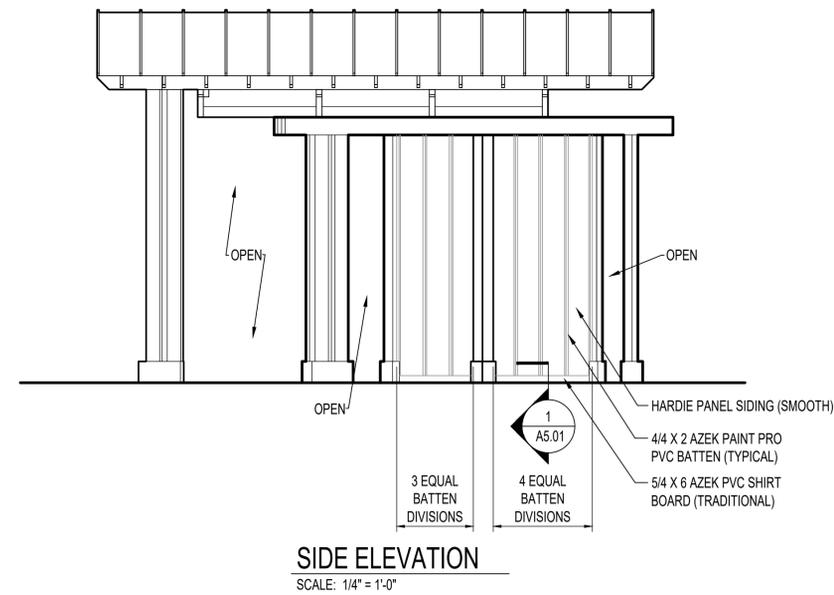
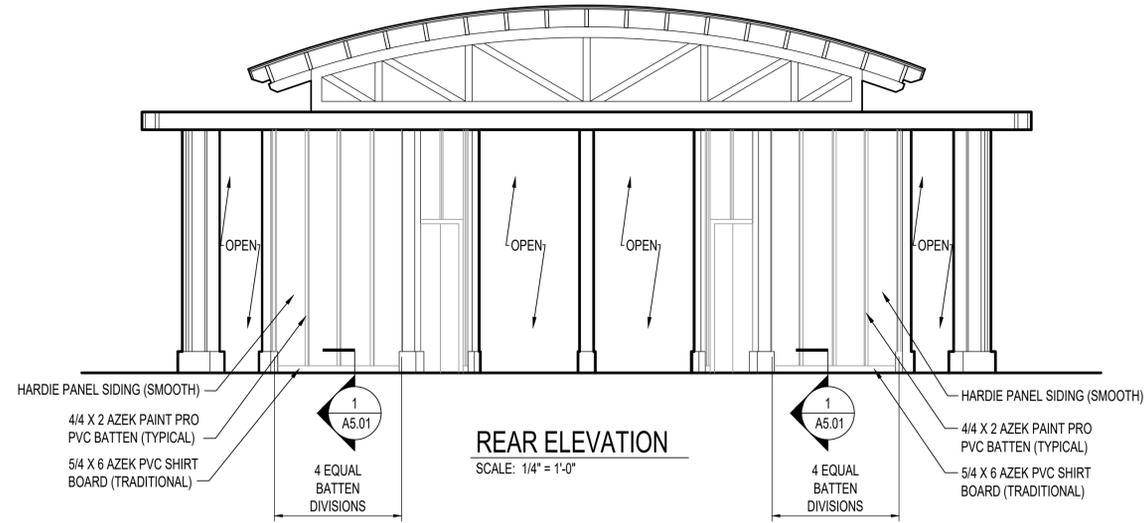
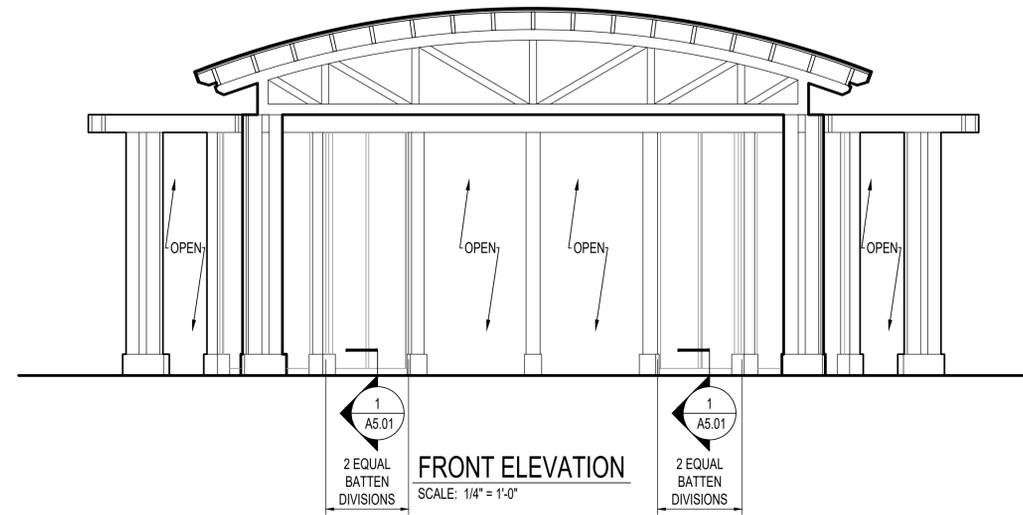
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**GENERAL SHEET NOTES**

1. PREPARE ALL EXISTING SURFACES TO RECEIVE NEW PAINT FINISHES PER MANUFACTURER'S WRITTEN REQUIREMENTS.



**1 TRIM DETAIL**  
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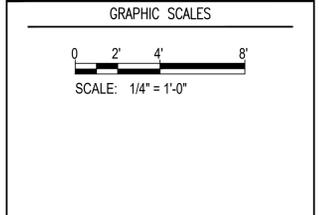
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SIGNATURE



ELEVATIONS		
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PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

- 1. EXTERIOR TRIM.

1.2 DEFINITIONS

- A. PVC: POLYVINYL CHLORIDE.

1.3 ACTION SUBMITTALS

- A. PRODUCT DATA: FOR EACH TYPE OF PROCESS AND FACTORY-FABRICATED PRODUCT. INDICATE COMPONENT MATERIALS, DIMENSIONS, PROFILES, TEXTURES, AND COLORS AND INCLUDE CONSTRUCTION AND APPLICATION DETAILS.

1.4 INFORMATIONAL SUBMITTALS

- A. EVALUATION REPORTS: FOR THE FOLLOWING, FROM ICC-ES:

- 1. CELLULAR PVC TRIM.
- B. SAMPLE WARRANTIES: FOR MANUFACTURER'S WARRANTIES.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. STORE TRIM MATERIALS ON A FLAT AND LEVEL SURFACE ON A FULL SHIPPING PALLET.
- B. HANDLE MATERIALS TO PREVENT DAMAGE AND TO PROTECT EDGES AND CORNERS.

1.6 FIELD CONDITIONS

- A. WEATHER LIMITATIONS: PROCEED WITH INSTALLATION ONLY WHEN EXISTING AND FORECAST WEATHER CONDITIONS PERMIT WORK TO BE PERFORMED AND AT LEAST ONE COAT OF SPECIFIED FINISH CAN BE APPLIED WITHOUT EXPOSURE TO RAIN, SNOW, OR DAMPNES.

1.7 WARRANTY

- A. PVC MANUFACTURER'S WARRANTY: MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF ENGINEERED WOOD SIDING PVC TRIM THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.
  - 1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, DEFORMATION OR DETERIORATION BEYOND NORMAL WEATHERING.
  - 2. WARRANTY PERIOD: SIDING TRIM (EXCLUDING FINISH), LIMITED LIFETIME AGAINST DEFECTS IN MANUFACTURING THAT CAUSES THE PRODUCT TO ROT, CORRODE, DELAMINATE, OR EXCESSIVELY SWELL FROM MOISTURE.

PART 2 - PRODUCTS

2.1 EXTERIOR TRIM

- A. CELLULAR PVC TRIM: BASIS OF DESIGN: AZEK

- 1. EXTRUDED, EXPANDED PVC WITH A SMALL-CELL MICROSTRUCTURE, RECOMMENDED BY MANUFACTURER FOR EXTERIOR USE, MADE FROM UV- AND HEAT-STABILIZED RIGID MATERIAL.
- 2. 4/4 X2 BATTEN TRIM, 5/4 X6 SKIRT BOARD. FINISH: TRADITIONAL/SMOOTH.
- 3. DENSITY: NOT LESS THAN .055 LB/CU. FT..
- 4. HEAT DEFLECTION TEMPERATURE: NOT LESS THAN 180 DEG F, IN ACCORDANCE WITH ASTM D648.
- 5. COEFFICIENT OF THERMAL EXPANSION: NOT MORE THAN 3.2 X 10.5 INCHES/INCH X DEG F.
- 6. WATER ABSORPTION: NOT MORE THAN 0.15PERCENT, IN ACCORDANCE WITH ASTM D570.
- 7. FLAME-SPREAD INDEX: 25 OR LESS, IN ACCORDANCE WITH ASTM E84.

2.2 SIMULATED WOOD TRIM

- A. PVC TRIMBOARD: AZEK 1-PIECE SKIRTBOARD. PRECUT TRIM PROVIDING GRADE CLEARANCE AND STARTER STRIP FOR FIBER CEMENT AND NATURAL CEDAR.

- 1. SIZE:
  - a. NOMINAL WIDTH:
    - 1) 2 INCHES.
  - b. NOMINAL THICKNESS: 4/4 INCH.
  - c. LENGTH:
    - 1) 18 FEET
  - d. FINISH
    - 1) TRADITIONAL/SMOOTH FINISH.

- B. PVC SKIRTBOARD: AZEK® 1-PIECE SKIRTBOARD. PRECUT TRIM PROVIDING GRADE CLEARANCE AND STARTER STRIP FOR FIBER CEMENT SIDINGS AS WELL AS COMPOSITE SIDINGS.

- 1. SIZE:
  - a. NOMINAL WIDTH:
    - 1) 5/4 INCH BY 6 INCHES
  - b. LENGTH:
    - 1) 18 FEET.
- 2. FINISH:
  - a. TRADITIONAL/SMOOTH FINISH.

2.3 ACCESSORY PRODUCTS

- A. FASTENERS:

- 1. USE FASTENERS DESIGN FOR WOOD TRIM AND WOOD SIDING (THINNER SHANK, BLUNT POINT, FULL ROUND HEAD) WITH AZEK®.
- 2. THE FASTENERS SHOULD BE LONG ENOUGH TO PENETRATE THE SOLID WOOD SUBSTRATE A MINIMUM OF 1/2".
- 3. USE 2 FASTENERS PER EVERY FRAMING MEMBER FOR TRIMBOARD APPLICATIONS. TRIMBOARDS 12" OR WIDER, AS WELL AS SHEETS, WILL REQUIRE ADDITIONAL FASTENERS.
- 4. FASTENERS MUST BE INSTALLED NO MORE THAN 2" FROM THE END OF EACH BOARD.
- 5. AZEK® SHOULD BE FASTENED INTO A FLAT, SOLID SUBSTRATE. FASTENING AZEK® INTO HOLLOW OR UNEVEN AREAS MUST BE AVOIDED.

2.3 ACCESSORY PRODUCTS

- A. FASTENERS:

- 1. USE FASTENERS DESIGN FOR WOOD TRIM AND WOOD SIDING (THINNER SHANK, BLUNT POINT, FULL ROUND HEAD) WITH AZEK®.
- 2. THE FASTENERS SHOULD BE LONG ENOUGH TO PENETRATE THE SOLID WOOD SUBSTRATE A MINIMUM OF 1/2".
- 3. USE 2 FASTENERS PER EVERY FRAMING MEMBER FOR TRIMBOARD APPLICATIONS. TRIMBOARDS 12" OR WIDER, AS WELL AS SHEETS, WILL REQUIRE ADDITIONAL FASTENERS.
- 4. FASTENERS MUST BE INSTALLED NO MORE THAN 2" FROM THE END OF EACH BOARD.
- 5. AZEK® SHOULD BE FASTENED INTO A FLAT, SOLID SUBSTRATE. FASTENING AZEK® INTO HOLLOW OR UNEVEN AREAS MUST BE AVOIDED.

2.4 MISCELLANEOUS MATERIALS

- A. FASTENERS FOR EXTERIOR FINISH CARPENTRY: PROVIDE NAILS OR SCREWS, IN SUFFICIENT LENGTH TO PENETRATE NOT LESS THAN 1-1/2 INCHES INTO WOOD SUBSTRATE.

- 1. FOR FACE-FASTENING SIDING, PROVIDE RINGED-SHANK SIDING NAILS OR HOT-DIP GALVANIZED-STEEL SIDING NAILS.
- 2. FOR APPLICATIONS NOT OTHERWISE INDICATED, PROVIDE STAINLESS STEEL OR HOT-DIP GALVANIZED-STEEL FASTENERS, DESIGNED FOR WOOD TRIM AND SIDING (THINNER SHANK, BLUNT POINT, FULL ROUND HEAD).
- 3. HORIZONTAL JOINT FLASHING FOR PANEL SIDING: PREFORMED, Z-SHAPED FLASHING.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. EXAMINE SUBSTRATES, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
- B. EXAMINE FINISH CARPENTRY MATERIALS BEFORE INSTALLATION. REJECT MATERIALS THAT ARE WET, MOISTURE DAMAGED.
- C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 PREPARATION

- A. CLEAN SUBSTRATES OF PROJECTIONS AND SUBSTANCES DETRIMENTAL TO APPLICATION.
- B. PRIME LUMBER AND MOLDINGS TO BE PAINTED, INCLUDING BOTH FACES AND EDGES, UNLESS FACTORY PRIMED.
  - 1. CUT TO REQUIRED LENGTHS AND PRIME ENDS.
  - 2. COMPLY WITH REQUIREMENTS IN SECTION 099113 "EXTERIOR PAINTING."

3.3 INSTALLATION, GENERAL

- A. DO NOT USE MATERIALS THAT ARE UNSOUND, WARPED, IMPROPERLY TREATED OR FINISHED, INADEQUATELY SEASONED, OR TOO SMALL TO FABRICATE WITH PROPER JOINTING ARRANGEMENTS.

- 1. DO NOT USE MANUFACTURED UNITS WITH DEFECTIVE SURFACES, SIZES, OR PATTERNS.

- B. INSTALL EXTERIOR FINISH CARPENTRY LEVEL, PLUMB, TRUE, AND ALIGNED WITH ADJACENT MATERIALS. FOLLOW MANUFACTURER'S DIRECTIONS FOR MAIL LOCATION.

- 1. USE CONCEALED SHIMS WHERE NECESSARY FOR ALIGNMENT.
- 2. SCRIBE AND CUT EXTERIOR FINISH CARPENTRY TO FIT ADJOINING WORK.
- 3. REFINISH AND SEAL CUTS AS RECOMMENDED BY MANUFACTURER.

- 4. INSTALL TO TOLERANCE OF 1/8 INCH IN 96 INCHES FOR LEVEL AND PLUMB. INSTALL ADJOINING EXTERIOR FINISH CARPENTRY WITH 1/32-INCH MAXIMUM OFFSET FOR FLUSH INSTALLATION AND 1/16-INCH MAXIMUM OFFSET FOR REVEAL INSTALLATION.

- 5. COORDINATE EXTERIOR FINISH CARPENTRY WITH MATERIALS AND SYSTEMS IN OR ADJACENT TO IT.

- 6. ALLOW 1/8" PER 18 FEET FOR EXPANSION AND CONTRACTION.

3.4 INSTALLATION OF STANDING AND RUNNING TRIM

- A. INSTALL CELLULAR PVC TRIM TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

- B. INSTALL TRIM WITH MINIMUM NUMBER OF JOINTS AS IS PRACTICAL, USING FULL-LENGTH PIECES FROM MAXIMUM LENGTHS OF LUMBER AVAILABLE. DO NOT USE PIECES LESS THAN 24 INCHES LONG, EXCEPT WHERE NECESSARY.

- 1. USE SCARF JOINTS FOR END-TO-END JOINTS.

- C. FIT EXTERIOR JOINTS TO EXCLUDE WATER.

- 1. COPE AT RETURNS AND MITER AT CORNERS TO PRODUCE TIGHT-FITTING JOINTS, WITH FULL-SURFACE CONTACT THROUGHOUT LENGTH OF JOINT.
- 2. PLANE BACKS OF CASINGS TO PROVIDE UNIFORM THICKNESS ACROSS JOINTS, WHERE NECESSARY FOR ALIGNMENT.

- D. WHERE FACE FASTENING IS UNAVOIDABLE, COUNTERSINK FASTENERS, FILL SURFACE FLUSH, AND SAND UNLESS OTHERWISE INDICATED.

3.5 INSTALLATION OF SIDING

- A. INSTALL SIDING TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND WARRANTY REQUIREMENTS.

3.6 CLEANING

- A. CLEAN EXTERIOR FINISH CARPENTRY ON EXPOSED AND SEMIEXPOSED SURFACES.
- B. TOUCH UP FACTORY-APPLIED FINISHES TO RESTORE DAMAGED OR SOILED AREAS.

3.7 PROTECTION

- A. PROTECT INSTALLED PRODUCTS FROM DAMAGE FROM WEATHER AND OTHER CAUSES DURING CONSTRUCTION.
- B. REMOVE AND REPLACE FINISH MATERIALS THAT ARE DAMAGED.

END OF SECTION 062013

FIBER-CEMENT SIDING074646 - 1SECTION 074646 - FIBER-CEMENT SIDING

PART 1 - GENERAL

1.1 SUMMARY

- A. SECTION INCLUDES:

- 1. FIBER-CEMENT SIDING.

- B. RELATED REQUIREMENTS:

- 1. SECTION 062013 "EXTERIOR FINISH CARPENTRY" FOR EXTERIOR CELLULAR PVC TRIM.

1.2 COORDINATION

- A. COORDINATE SIDING INSTALLATION WITH FLASHINGS AND OTHER ADJOINING CONSTRUCTION TO ENSURE PROPER SEQUENCING.

1.3 ACTION SUBMITTALS

- A. PRODUCT DATA:

- 1. FIBER-CEMENT SIDING.
- B. PRODUCT DATA SUBMITTALS: FOR EACH TYPE OF FIBER-CEMENT SIDING INCLUDE CONSTRUCTION DETAILS, MATERIAL DESCRIPTIONS, DIMENSIONS OF INDIVIDUAL COMPONENTS AND PROFILES, AND FINISHES.

1.4 INFORMATIONAL SUBMITTALS

- A. PRODUCT CERTIFICATES: FOR EACH TYPE OF FIBER-CEMENT SIDING.
- B. PRODUCT TEST REPORTS: BASED ON EVALUATION OF COMPREHENSIVE TESTS PERFORMED BY A QUALIFIED TESTING AGENCY, FOR FIBER-CEMENT SIDING.
- C. RESEARCH/EVALUATION REPORTS: FOR EACH TYPE OF FIBER-CEMENT SIDING REQUIRED, FROM ICC-ES.
- D. SAMPLE WARRANTY: FOR SPECIAL WARRANTY.

1.5 CLOSEOUT SUBMITTALS

- A. MAINTENANCE DATA: FOR EACH TYPE OF FIBER-CEMENT SIDING INCLUDING RELATED ACCESSORIES, TO INCLUDE IN MAINTENANCE MANUALS.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. DELIVER AND STORE PACKAGED MATERIALS IN ORIGINAL CONTAINERS WITH LABELS INTACT UNTIL TIME OF USE.
- B. STORE MATERIALS ON ELEVATED PLATFORMS, UNDER COVER, AND IN A DRY LOCATION.

1.7 WARRANTY

- A. SPECIAL WARRANTY: MANUFACTURER AGREES TO REPAIR OR REPLACE PRODUCTS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.

- 1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
  - a. STRUCTURAL FAILURES INCLUDING CRACKING AND DEFORMING.
  - b. DETERIORATION OF MATERIALS BEYOND NORMAL WEATHERING.

- 2. WARRANTY PERIOD: 30 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. NON-PRORATED LIMITED WARRANTY.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. OBTAIN PRODUCTS, INCLUDING RELATED ACCESSORIES, FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.

2.2 FIBER-CEMENT PANEL SIDING

- A. FIBER-CEMENT PANEL SIDING: ASTM C1186, TYPE A, GRADE II, FIBER-CEMENT BOARD, NONCOMBUSTIBLE WHEN TESTED IN ACCORDANCE WITH ASTM E136; WITH A FLAME-SPREAD INDEX OF 25 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84.

- B. LABELING: PROVIDE FIBER-CEMENT SIDING THAT IS TESTED AND LABELED IN ACCORDANCE WITH ASTM C1186 BY A QUALIFIED TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

- C. NOMINAL THICKNESS: NOT LESS THAN 5/16 INCH.

- D. PANEL TEXTURE: 48-INCH- WIDE SHEETS WITH SMOOTH TEXTURE.

- E. FACTORY PRIMING: MANUFACTURER'S STANDARD ACRYLIC PRIMER.

2.3 ACCESSORIES

- A. FLASHING: PROVIDE STAINLESS STEEL FLASHING COMPLYING WITH SECTION 076200 "SHEET METAL FLASHING AND TRIM" AT WINDOW AND DOOR HEADS AND WHERE INDICATED.

- B. FASTENERS:

- 1. FOR FASTENING TO WOOD, USE SIDING NAILS OF SUFFICIENT LENGTH TO PENETRATE A MINIMUM OF 1 INCH INTO SUBSTRATE.
- 2. FOR FASTENING TO METAL, USE RIBBED BUGLE-HEAD SCREWS OF SUFFICIENT LENGTH TO PENETRATE A MINIMUM OF 1/4 INCH, OR THREE SCREW-THREADS, INTO SUBSTRATE.
- 3. FOR FASTENING FIBER CEMENT, USE HOT-DIP GALVANIZED OR STAINLESS STEEL FASTENERS.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. EXAMINE SUBSTRATES FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF FIBER-CEMENT SIDING AND RELATED ACCESSORIES.

- B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 PREPARATION

- A. CLEAN SUBSTRATES OF PROJECTIONS AND SUBSTANCES DETRIMENTAL TO APPLICATION.

3.3 INSTALLATION

- A. GENERAL: COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS APPLICABLE TO PRODUCTS AND APPLICATIONS INDICATED UNLESS MORE STRINGENT REQUIREMENTS APPLY.

- 1. DO NOT INSTALL DAMAGED COMPONENTS.
- 2. INSTALL FASTENERS NO MORE THAN 24 INCHES O.C.

- B. INSTALL JOINT SEALANTS AS SPECIFIED IN SECTION 079200 "JOINT SEALANTS" AND TO PRODUCE A WEATHERTIGHT INSTALLATION.

3.4 ADJUSTING AND CLEANING

- A. REMOVE DAMAGED, IMPROPERLY INSTALLED, OR OTHERWISE DEFECTIVE MATERIALS AND REPLACE WITH NEW MATERIALS COMPLYING WITH SPECIFIED REQUIREMENTS.

- B. CLEAN FINISHED SURFACES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND MAINTAIN IN A CLEAN CONDITION DURING CONSTRUCTION.

END OF SECTION 074646

REVISIONS	

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ARCHITECTURAL SPECIFICATIONS

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SECTION 099000 - EXTERIOR, AND HIGH PERFORMANCE PAINTS AND COATINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. EXTERIOR HIGH-PERFORMANCE PAINT AND COATINGS SYSTEMS INCLUDING SURFACE PREPARATION.

1.2 REFERENCES

- A. STEEL STRUCTURES PAINTING COUNCIL (SSPC):
  1. SSPC-SP 2 - HAND TOOL CLEANING.
  2. SSPC-SP 3 - POWER TOOL CLEANING.
- B. MATERIAL SAFETY DATA SHEETS / ENVIRONMENTAL DATA SHEETS: PER MANUFACTURER'S MSDS/EDS FOR SPECIFIC VOCs (CALCULATED PER 40 CFR 59.406). VOCs MAY VARY BY BASE AND SHEEN.
- C. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH (CDPH):
  1. CDPH V1.1-2010 AND V1.2-2017

1.3 SUBMITTALS

- A. SUBMIT UNDER PROVISIONS OF SECTION 01 30 00 - ADMINISTRATIVE REQUIREMENTS.
- B. PRODUCT DATA: FOR EACH PAINT SYSTEM INDICATED, INCLUDING:
  1. PRODUCT CHARACTERISTICS.
  2. SURFACE PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
  3. PRIMER REQUIREMENTS AND FINISH SPECIFICATION.
  4. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
  5. APPLICATION METHODS.
  6. CAUTIONS FOR STORAGE, HANDLING AND INSTALLATION.
- C. VERIFICATION SAMPLES: FOR EACH FINISHED PRODUCT SPECIFIED, SUBMIT SAMPLES THAT REPRESENT THE ACTUAL PRODUCT, COLOR, AND SHEEN.
- D. COATING MAINTENANCE MANUAL: UPON CONCLUSION OF PROJECT, THE CONTRACTOR OR PAINT MANUFACTURER/SUPPLIER SHALL FURNISH A COATING MAINTENANCE MANUAL, SUCH AS SHERWIN-WILLIAMS, "CUSTOMER PROJECT COLOR AND PRODUCT INFORMATION" REPORT OR EQUAL. MANUAL SHALL INCLUDE AN AREA SUMMARY WITH FINISH SCHEDULE, AREA DETAIL DESIGNATING WHERE EACH PRODUCT/COLOR/FINISH WAS USED, PRODUCT DATA PAGES, MATERIAL SAFETY DATA SHEETS, CARE AND CLEANING INSTRUCTIONS, TOUCH-UP PROCEDURES, AND COLOR SAMPLES OF EACH COLOR AND FINISH USED.
- E. ONLY SUBMIT COMPLYING PRODUCTS BASED ON PROJECT REQUIREMENTS (I.E. LEED). ONE MUST ALSO COMPLY WITH THE REGULATIONS REGARDING VOCs (CARB, OTC, SCAQMD, LADCO). TO ENSURE COMPLIANCE WITH DISTRICT REGULATIONS AND OTHER RULES, BUSINESSES THAT PERFORM COATING ACTIVITIES SHOULD CONTACT THE LOCAL DISTRICT IN EACH AREA WHERE THE COATING WILL BE USED.

1.4 QUALITY ASSURANCE

- A. INSTALLER QUALIFICATIONS: A FIRM OR INDIVIDUAL EXPERIENCED IN APPLYING PAINTS AND COATINGS SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THOSE INDICATED FOR THIS PROJECT, WHOSE WORK HAS RESULTED IN APPLICATIONS WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
- B. PAINT EXPOSED SURFACES. IF A COLOR OF FINISH, OR A SURFACE IS NOT SPECIFICALLY MENTIONED, ARCHITECT WILL SELECT FROM STANDARD PRODUCTS, COLORS, AND SHEENS AVAILABLE.
- C. DO NOT PAINT PREFINISHED ITEMS, CONCEALED SURFACES, FINISHED METAL SURFACES, OPERATING PARTS, AND LABELS UNLESS INDICATED.
- D. MOCK-UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPLICATION WORKMANSHIP.
  1. FINISH SURFACES FOR VERIFICATION OF PRODUCTS, COLORS, AND SHEENS.
  2. FINISH AREA DESIGNATED BY ARCHITECT.
  3. PROVIDE SAMPLES THAT DESIGNATE PRIMER AND FINISH COATS.
  4. COMPATIBILITY AND ADHESION: CHECK AFTER ONE WEEK OF DRYING AND CURING BY TESTING IN ACCORDANCE WITH ASTM D3359; ADHESION BY TAPE TEST. IF THE COATING SYSTEM IS INCOMPATIBLE, ADDITIONAL SURFACE PREPARATION UP TO AND INCLUDING COMPLETE REMOVAL MAY BE REQUIRED.
  5. DO NOT PROCEED WITH REMAINING WORK UNTIL THE ARCHITECT APPROVES THE MOCK-UP.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. DELIVERY: DELIVER MANUFACTURER'S UNOPENED CONTAINERS TO THE WORK SITE. PACKAGING SHALL BEAR THE MANUFACTURER'S NAME, LABEL, AND THE FOLLOWING LIST OF INFORMATION:
  1. PRODUCT NAME, AND TYPE (DESCRIPTION).
  2. APPLICATION AND USE INSTRUCTIONS.
  3. SURFACE PREPARATION.
  4. VOC CONTENT.
  5. ENVIRONMENTAL HANDLING.
  6. BATCH DATE.
  7. COLOR NUMBER.
- B. STORAGE: STORE AND DISPOSE OF SOLVENT-BASED MATERIALS, AND MATERIALS USED WITH SOLVENT-BASED MATERIALS, IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
- C. STORE MATERIALS IN AN AREA THAT IS WITHIN THE ACCEPTABLE TEMPERATURE RANGE, PER MANUFACTURER'S INSTRUCTIONS. PROTECT FROM FREEZING.
- D. HANDLING: MAINTAIN A CLEAN, DRY STORAGE AREA, TO PREVENT CONTAMINATION OR DAMAGE TO THE COATINGS.

1.6 PROJECT CONDITIONS

- A. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S RECOMMENDED LIMITS.

1.7 EXTRA MATERIALS

- A. FURNISH EXTRA PAINT MATERIALS FROM THE SAME PRODUCTION RUN AS THE MATERIALS APPLIED AND, IN THE QUANTITIES, DESCRIBED BELOW. PACKAGE WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFY WITH LABELS DESCRIBING CONTENTS. DELIVER EXTRA MATERIALS TO OWNER.
- B. FURNISH OWNER WITH AN ADDITIONAL ONE PERCENT OF EACH MATERIAL AND COLOR, BUT NOT LESS THAN 1 GAL (3.8 L) OR 1 CASE, AS APPROPRIATE.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. ACCEPTABLE MANUFACTURER: SHERWIN-WILLIAMS, WHICH IS LOCATED AT: 101 PROSPECT AVE.; CLEVELAND, OH 44115; ASD TOLL FREE TEL: 800-524-5979; TEL: 216-566-2000; FAX: 440-826-1989; EMAIL: REQUEST\_INFOSPECIFICATIONS@SHERWIN.COM; WEB: WWW.SWSPECS.COM.
- B. REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 01 60 00 - PRODUCT REQUIREMENTS.

2.2 APPLICATIONS/SCOPE

- A. HIGH PERFORMANCE EXTERIOR PAINT AND COATING SYSTEMS:
  1. METAL: ALUMINUM, GALVANIZED STEEL, UNGALVANIZED STEEL.

2.3 PAINT MATERIALS - GENERAL

- A. PAINTS AND COATINGS:
  1. UNLESS OTHERWISE INDICATED, PROVIDE FACTORY-MIXED COATINGS. WHEN REQUIRED, MIX COATINGS TO CORRECT CONSISTENCY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION. DO NOT REDUCE, THIN, OR DILUTE COATINGS OR ADD MATERIALS TO COATINGS UNLESS SUCH PROCEDURE IS SPECIFICALLY DESCRIBED IN MANUFACTURER'S PRODUCT INSTRUCTIONS.
  2. FOR OPAQUE FINISHES, TINT EACH COAT INCLUDING PRIMER COAT AND INTERMEDIATE COATS, ONE-HALF SHADE LIGHTER THAN SUCCEEDING COAT, WITH FINAL FINISH COAT AS BASE COLOR. OR FOLLOW MANUFACTURER'S PRODUCT INSTRUCTIONS FOR OPTIMAL COLOR CONFORMANCE.
- B. PRIMERS: WHERE THE MANUFACTURER OFFERS OPTIONS ON PRIMERS FOR A PARTICULAR SUBSTRATE, USE A PRIMER CATEGORIZED AS "BEST" BY THE MANUFACTURER.
- C. COATING APPLICATION ACCESSORIES: PROVIDE ALL PRIMERS, SEALERS, CLEANING AGENTS, CLEANING CLOTHS, SANDING MATERIALS, AND CLEAN-UP MATERIALS REQUIRED, PER MANUFACTURER'S SPECIFICATIONS.
- D. COLOR: REFER TO FINISH SCHEDULE FOR PAINT COLORS, AND AS SELECTED.

2.4 HIGH PERFORMANCE EXTERIOR PAINT AND COATING SYSTEMS

- A. METAL: GALVANIZED, UNGALVANIZED AND ALUMINUM.
  1. URETHANE-ENAMEL SYSTEM:
    - a. SEMI-GLOSS FINISH; SINGLE COMPONENT:
      - 1) 1ST COAT: S-W PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER, B66-1300 SERIES (5.0-10.0 MILS. WET, 1.9-3.8 MILS. DRY PER COAT).
      - 2) 2ND COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL, B53-5150 SERIES.
      - 3) 3RD COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL, B53-5150 SERIES (4.0-5.0 MILS. WET, 1.3-1.7 MILS. DRY PER COAT).

PART 3 EXECUTION

3.1 EXAMINATION

- A. DO NOT BEGIN INSTALLATION UNTIL THE SUBSTRATES HAVE BEEN PROPERLY PREPARED; NOTIFY ARCHITECT OF UNSATISFACTORY CONDITIONS BEFORE PROCEEDING. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.
- B. PROCEED WITH WORK ONLY AFTER CONDITIONS HAVE BEEN CORRECTED AND APPROVED BY ALL PARTIES, OTHERWISE APPLICATION OF COATINGS WILL BE CONSIDERED AS AN ACCEPTANCE OF SURFACE CONDITIONS.
- C. PREVIOUSLY PAINTED SURFACES: VERIFY THAT EXISTING PAINTED SURFACES DO NOT CONTAIN LEAD BASED PAINTS, NOTIFY ARCHITECT IMMEDIATELY IF LEAD BASED PAINTS ARE ENCOUNTERED.

3.2 SURFACE PREPARATION

- A. GENERAL: SURFACES SHALL BE DRY AND IN SOUND CONDITION. REMOVE OIL, DUST, DIRT, LOOSE RUST, PEELING PAINT, OR OTHER CONTAMINATION TO ENSURE GOOD ADHESION.
  1. PRIOR TO ATTEMPTING TO REMOVE MILDEW, IT IS RECOMMENDED TO TEST ANY CLEANER ON A SMALL, INCONSPICUOUS AREA PRIOR TO USE. BLEACH AND BLEACHING TYPE CLEANERS MAY DAMAGE OR DISCOLOR EXISTING PAINT FILMS. BLEACH ALTERNATIVE CLEANING SOLUTIONS ARE ADVISED.
  2. REMOVE MILDEW BEFORE PAINTING BY WASHING WITH A SOLUTION OF 1 PART LIQUID HOUSEHOLD BLEACH AND 3 PARTS OF WARM WATER. APPLY SOLUTION AND SCRUB THE MILDEWED AREA. ALLOW SOLUTION TO REMAIN ON THE SURFACE FOR 10 MINUTES. RINSE THOROUGHLY WITH CLEAN WATER AND ALLOW THE SURFACE TO DRY BEFORE PAINTING. WEAR PROTECTIVE GLASSES OR GOGGLES, WATERPROOF GLOVES, AND PROTECTIVE CLOTHING. QUICKLY WASH OFF ANY OF THE MIXTURE THAT COMES IN CONTACT WITH YOUR SKIN. DO NOT ADD DETERGENTS OR AMMONIA TO THE BLEACH/WATER SOLUTION.
  3. REMOVE ITEMS INCLUDING BUT NOT LIMITED TO THERMOSTATS, ELECTRICAL OUTLETS, SWITCH COVERS AND SIMILAR ITEMS PRIOR TO PAINTING. AFTER COMPLETING PAINTING OPERATIONS IN EACH SPACE OR AREA, REINSTALL ITEMS REMOVED USING WORKERS SKILLED IN THE TRADES INVOLVED.
  4. NO EXTERIOR PAINTING SHOULD BE DONE IMMEDIATELY AFTER A RAIN, DURING FOGGY WEATHER, WHEN RAIN IS PREDICTED, OR WHEN THE TEMPERATURE IS BELOW 50 DEGREES F (10 DEGREES C), UNLESS PRODUCTS ARE DESIGNED SPECIFICALLY FOR THESE CONDITIONS. ON LARGE EXPANSIONS OF METAL SIDING, THE AIR, SURFACE, AND MATERIAL TEMPERATURES MUST BE 50 DEGREES F (10 DEGREES C) OR HIGHER TO USE LOW TEMPERATURE PRODUCTS.

- B. ALUMINUM: REMOVE ALL OIL, GREASE, DIRT, OXIDE, AND OTHER FOREIGN MATERIAL BY CLEANING PER SSPC-SP1, SOLVENT CLEANING.
- C. CEMENT COMPOSITION SIDING/PANELS: REMOVE ALL SURFACE CONTAMINATION BY WASHING WITH AN APPROPRIATE CLEANER, RINSE THOROUGHLY AND ALLOW TO DRY. EXISTING PEELLED OR CHECKED PAINT SHOULD BE SCRAPED AND SANDED TO A SOUND SURFACE. PRESSURE CLEAN, IF NEEDED, WITH A MINIMUM OF 2100 PSI PRESSURE TO REMOVE ALL DIRT, DUST, GREASE, OIL, LOOSE PARTICLES, LAITANCE, FOREIGN MATERIAL, AND PEELING OR DEFECTIVE COATINGS. ALLOW THE SURFACE TO DRY THOROUGHLY. THE PH OF THE SURFACE SHOULD BE BETWEEN 6 AND 9 UNLESS THE PRODUCTS ARE DESIGNED TO BE USED IN HIGH PH ENVIRONMENTS.
- D. GALVANIZED METAL: CLEAN PER SSPC-SP1 USING DETERGENT AND WATER OR A DEGREASING CLEANER TO REMOVE GREASES AND OILS. APPLY TO A TEST AREA, PRIMING AS REQUIRED. ALLOW THE COATING TO DRY AT LEAST ONE WEEK BEFORE TESTING. IF ADHESION IS POOR, BRUSH BLAST PER SSPC-SP16 IS NECESSARY TO REMOVE THESE TREATMENTS.
- E. STEEL: STRUCTURAL, PLATE, AND SIMILAR ITEMS: SHOULD BE CLEANED BY ONE OR MORE OF THE SURFACE PREPARATIONS DESCRIBED BELOW. THESE METHODS ARE USED THROUGHOUT THE WORLD FOR DESCRIBING METHODS FOR CLEANING STRUCTURAL STEEL. VISUAL STANDARDS ARE AVAILABLE THROUGH THE SOCIETY OF PROTECTIVE COATINGS. A BRIEF DESCRIPTION OF THESE STANDARDS TOGETHER WITH NUMBERS BY WHICH THEY CAN BE SPECIFIED FOLLOW.
  1. HAND TOOL CLEANING, SSPC-SP2: HAND TOOL CLEANING REMOVES ALL LOOSE MILL SCALE, LOOSE RUST, AND OTHER DETRIMENTAL FOREIGN MATTER. IT IS NOT INTENDED THAT ADHERENT MILL SCALE, RUST, AND PAINT BE REMOVED BY THIS PROCESS. BEFOREHAND TOOL CLEANING, REMOVE VISIBLE OIL, GREASE, SOLUBLE WELDING RESIDUES, AND SALTS BY THE METHODS OUTLINED IN SSPC-SP1.
  2. POWER TOOL CLEANING, SSPC-SP3: POWER TOOL CLEANING REMOVES ALL LOOSE MILL SCALE, LOOSE RUST, AND OTHER DETRIMENTAL FOREIGN MATTER. IT IS NOT INTENDED THAT ADHERENT MILL SCALE, RUST, AND PAINT BE REMOVED BY THIS PROCESS. BEFORE POWER TOOL CLEANING, REMOVE VISIBLE OIL, GREASE, SOLUBLE WELDING RESIDUES, AND SALTS BY THE METHODS OUTLINED IN SSPC-SP1.
- F. WOOD: MUST BE CLEAN AND DRY. PRIME AND PAINT AS SOON AS POSSIBLE. KNOTS AND PITCH STREAKS MUST BE SCRAPED, SANDED, AND SPOT PRIMED BEFORE A FULL PRIMING COAT IS APPLIED. PATCH ALL NAIL HOLES AND IMPERFECTIONS WITH A WOOD FILLER OR PUTTY AND SAND SMOOTH.

3.3 INSTALLATION

- A. APPLY ALL COATINGS AND MATERIALS WITH THE MANUFACTURER'S SPECIFICATIONS IN MIND. MIX AND THIN COATINGS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- B. DO NOT APPLY IT TO WET OR DAMP SURFACES. WAIT AT LEAST 30 DAYS BEFORE APPLYING TO NEW CONCRETE OR MASONRY. OR FOLLOW MANUFACTURER'S PROCEDURES TO APPLY APPROPRIATE COATINGS PRIOR TO 30 DAYS. TEST NEW CONCRETE FOR MOISTURE CONTENT. WAIT UNTIL WOOD IS FULLY DRY AFTER RAIN OR MORNING FOG OR DEW.
- C. APPLY COATINGS USING METHODS RECOMMENDED BY MANUFACTURER.
- D. UNIFORMLY APPLY COATINGS WITHOUT RUNS, DRIPS, OR SAGS, WITHOUT BRUSH MARKS, AND WITH CONSISTENT SHEEN.
- E. APPLY COATINGS AT SPREADING RATE REQUIRED TO ACHIEVE THE MANUFACTURERS RECOMMENDED DRY FILM THICKNESS.
- F. REGARDLESS OF THE NUMBER OF COATS SPECIFIED, APPLY AS MANY COATS AS NECESSARY FOR COMPLETE HIDE, AND UNIFORM APPEARANCE.
- G. INSPECTION: THE COATED SURFACE MUST BE INSPECTED AND APPROVED BY THE ARCHITECT JUST PRIOR TO THE APPLICATION OF EACH COAT.

3.4 PROTECTION

- A. PROTECT FINISHED COATINGS FROM DAMAGE UNTIL COMPLETION OF PROJECT.
- B. TOUCH-UP DAMAGED COATINGS AFTER SUBSTANTIAL COMPLETION, FOLLOWING MANUFACTURER'S RECOMMENDATION FOR TOUCH UP OR REPAIR OF DAMAGED COATINGS. REPAIR ANY DEFECTS THAT WILL HINDER THE PERFORMANCE OF THE COATINGS.

END OF SECTION 099000

REVISIONS	

CLIENT INFORMATION

TOWN OF VIENNA

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TOWN GREEN AMPHITHEATER – COLUMN REPAIRS

KEY PLAN

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GRAPHIC SCALES

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SIGNATURE

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**Whitman, Requardt & Associates, LLP**  
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

ARCHITECTURAL SPECIFICATIONS

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SECTION 099000A - EXTERIOR OPAQUE STAIN

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. EXTERIOR PAINT AND COATING SYSTEMS INCLUDING SURFACE PREPARATION.

1.2 REFERENCES

- A. STEEL STRUCTURES PAINTING COUNCIL (SSPC):
  1. SSPC-SP 2 - HAND TOOL CLEANING.
  2. SSPC-SP 3 - POWER TOOL CLEANING.
- B. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH (CDPH):
  1. CDPH V1.1-2010 AND V1.2-2017

1.3 SUBMITTALS

- A. SUBMIT UNDER PROVISIONS OF SECTION 01 30 00 - ADMINISTRATIVE REQUIREMENTS.
- B. PRODUCT DATA: FOR EACH PAINT SYSTEM INDICATED, INCLUDING:
  1. PRODUCT CHARACTERISTICS.
  2. SURFACE PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
  3. PRIMER REQUIREMENTS AND FINISH SPECIFICATION.
  4. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
  5. APPLICATION METHODS.
  6. CAUTIONS FOR STORAGE, HANDLING AND INSTALLATION.
- C. VERIFICATION SAMPLES: FOR EACH FINISHED PRODUCT SPECIFIED, SUBMIT SAMPLES THAT REPRESENT THE ACTUAL PRODUCT, COLOR, AND SHEEN.
- D. COATING MAINTENANCE MANUAL: UPON CONCLUSION OF PROJECT, THE CONTRACTOR OR PAINT MANUFACTURER/SUPPLIER SHALL FURNISH A COATING MAINTENANCE MANUAL, SUCH AS SHERWIN-WILLIAMS, "CUSTODIAN PROJECT COLOR AND PRODUCT INFORMATION" REPORT OR EQUAL. MANUAL SHALL INCLUDE AN AREA SUMMARY WITH FINISH SCHEDULE, AREA DETAIL DESIGNATING WHERE EACH PRODUCT/COLOR/FINISH WAS USED, PRODUCT DATA PAGES, MATERIAL SAFETY DATA SHEETS, CARE AND CLEANING INSTRUCTIONS, TOUCH-UP PROCEDURES, AND COLOR SAMPLES OF EACH COLOR AND FINISH USED.
- E. ONLY SUBMIT COMPLYING PRODUCTS BASED ON PROJECT REQUIREMENTS (I.E. LEED). ONE MUST ALSO COMPLY WITH THE REGULATIONS REGARDING VOCs (CARB, OTC, SCAQMD, LADCO), TO ENSURE COMPLIANCE WITH DISTRICT REGULATIONS AND OTHER RULES, BUSINESSES THAT PERFORM COATING ACTIVITIES SHOULD CONTACT THE LOCAL DISTRICT IN EACH AREA WHERE THE COATING WILL BE USED.

1.4 QUALITY ASSURANCE

- A. INSTALLER QUALIFICATIONS: A FIRM OR INDIVIDUAL EXPERIENCED IN APPLYING PAINTS AND COATINGS SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THOSE INDICATED FOR THIS PROJECT, WHOSE WORK HAS RESULTED IN APPLICATIONS WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
- B. PAINT EXPOSED SURFACES: IF A COLOR OR FINISH, OR A SURFACE IS NOT SPECIFICALLY MENTIONED, ARCHITECT WILL SELECT FROM STANDARD PRODUCTS, COLORS, AND SHEENS AVAILABLE.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. DELIVERY: DELIVER MANUFACTURER'S UNOPENED CONTAINERS TO THE WORK SITE. PACKAGING SHALL BEAR THE MANUFACTURER'S NAME, LABEL, AND THE FOLLOWING LIST OF INFORMATION:
  1. PRODUCT NAME, AND TYPE (DESCRIPTION).
  2. APPLICATION AND USE INSTRUCTIONS.
  3. SURFACE PREPARATION.
  4. VOC CONTENT.
  5. ENVIRONMENTAL HANDLING.
  6. BATCH DATE.
  7. COLOR NUMBER.
- B. STORAGE: STORE AND DISPOSE OF SOLVENT-BASED MATERIALS, AND MATERIALS USED WITH SOLVENT-BASED MATERIALS, IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
- C. STORE MATERIALS IN AN AREA THAT IS WITHIN THE ACCEPTABLE TEMPERATURE RANGE, PER MANUFACTURER'S INSTRUCTIONS. PROTECT FROM FREEZING.
- D. HANDLING: MAINTAIN A CLEAN, DRY STORAGE AREA, TO PREVENT CONTAMINATION OR DAMAGE TO THE COATINGS.

1.6 PROJECT CONDITIONS

- A. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S RECOMMENDED LIMITS.

1.7 EXTRA MATERIALS

- A. FURNISH EXTRA PAINT MATERIALS FROM THE SAME PRODUCTION RUN AS THE MATERIALS APPLIED AND, IN THE QUANTITIES, DESCRIBED BELOW, PACKAGE WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFY WITH LABELS DESCRIBING CONTENTS. DELIVER EXTRA MATERIALS TO OWNER.
- B. FURNISH OWNER WITH AN ADDITIONAL ONE PERCENT OF EACH MATERIAL AND COLOR, BUT NOT LESS THAN 1 GAL (3.8 L) OR 1 CASE, AS APPROPRIATE.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. ACCEPTABLE MANUFACTURER: SHERWIN-WILLIAMS, WHICH IS LOCATED AT: 101 PROSPECT AVE.; CLEVELAND, OH 44115; ASD TOLL FREE TEL: 800-524-5979; TEL: 216-566-2000; FAX: 440-826-1989; EMAIL: REQUEST INFOSPECIFICATIONS@SHERWIN.COM; WEB: WWW.SWSPECS.COM.
- B. REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 01 60 00 - PRODUCT REQUIREMENTS.

2.2 APPLICATIONS/SCOPE

- A. EXTERIOR PAINT AND COATING SYSTEMS:
  1. WOOD: SIDING, TRIM, SHUTTERS, SASH, AND MISCELLANEOUS HARDBOARD.

2.3 PAINT MATERIALS - GENERAL

- A. PAINTS AND COATINGS:
  1. UNLESS OTHERWISE INDICATED, PROVIDE FACTORY-MIXED COATINGS. WHEN REQUIRED, MIX COATINGS TO CORRECT CONSISTENCY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION. DO NOT REDUCE, THIN, OR DILUTE COATINGS OR ADD MATERIALS TO COATINGS UNLESS SUCH PROCEDURE IS SPECIFICALLY DESCRIBED IN MANUFACTURER'S PRODUCT INSTRUCTIONS.
  2. FOR OPAQUE FINISHES, TINT EACH COAT INCLUDING PRIMER COAT AND INTERMEDIATE COATS, ONE-HALF SHADE LIGHTER THAN SUCCEEDING COAT, WITH FINAL FINISH COAT AS BASE COLOR. OR FOLLOW MANUFACTURER'S PRODUCT INSTRUCTIONS FOR OPTIMAL COLOR CONFORMANCE.
- B. PRIMERS: WHERE THE MANUFACTURER OFFERS OPTIONS ON PRIMERS FOR A PARTICULAR SUBSTRATE, USE A PRIMER CATEGORIZED AS "BEST" BY THE MANUFACTURER.
- C. COATING APPLICATION ACCESSORIES: PROVIDE ALL PRIMERS, SEALERS, CLEANING AGENTS, CLEANING CLOTHS, SANDING MATERIALS, AND CLEAN-UP MATERIALS REQUIRED, PER MANUFACTURER'S SPECIFICATIONS.
- D. COLOR: REFER TO FINISH SCHEDULE FOR PAINT COLORS, AND AS SELECTED.
- E. LEED REQUIREMENTS: LEED V4 AND V4.1 EQ CREDIT: INDOOR ENVIRONMENTAL QUALITY-LOW EMITTING MATERIALS.

2.4 EXTERIOR PAINT AND COATING SYSTEMS

- A. WOOD: SIDING, TRIM, SHUTTERS, SASHES, AND HARDBOARD-BARE/PRIMED.
  1. STAIN: WATER REDUCIBLE SYSTEMS:
    - a. SOLID COLOR:
      - 1) 1ST COAT: S-W WOODSCAPES EXTERIOR ACRYLIC SOLID COLOR STAIN, A15 SERIES.
      - 2) 2ND COAT: S-W WOODSCAPES EXTERIOR ACRYLIC SOLID COLOR STAIN, A15 SERIES (200-400 SQ FT/GAL).

PART 3 EXECUTION

3.1 EXAMINATION

- A. DO NOT BEGIN INSTALLATION UNTIL THE SUBSTRATES HAVE BEEN PROPERLY PREPARED; NOTIFY ARCHITECT OF UNSATISFACTORY CONDITIONS BEFORE PROCEEDING. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.
- B. PROCEED WITH WORK ONLY AFTER CONDITIONS HAVE BEEN CORRECTED AND APPROVED BY ALL PARTIES, OTHERWISE APPLICATION OF COATINGS WILL BE CONSIDERED AS AN ACCEPTANCE OF SURFACE CONDITIONS.
- C. PREVIOUSLY PAINTED SURFACES: VERIFY THAT EXISTING PAINTED SURFACES DO NOT CONTAIN LEAD BASED PAINTS, NOTIFY ARCHITECT IMMEDIATELY IF LEAD BASED PAINTS ARE ENCOUNTERED.

3.2 SURFACE PREPARATION

- A. GENERAL: SURFACES SHALL BE DRY AND IN SOUND CONDITION. REMOVE OIL, DUST, DIRT, LOOSE RUST, PEELING PAINT, OR OTHER CONTAMINATION TO ENSURE GOOD ADHESION.
  1. PRIOR TO ATTEMPTING TO REMOVE MILDEW, IT IS RECOMMENDED TO TEST ANY CLEANER ON A SMALL, INCONSPICUOUS AREA PRIOR TO USE. BLEACH AND BLEACHING TYPE CLEANERS MAY DAMAGE OR DISCOLOR EXISTING PAINT FILMS. BLEACH ALTERNATIVE CLEANING SOLUTIONS ARE ADVISED.
  2. REMOVE MILDEW BEFORE PAINTING BY WASHING WITH A SOLUTION OF 1 PART LIQUID HOUSEHOLD BLEACH AND 3 PARTS OF WARM WATER. APPLY SOLUTION AND SCRUB THE MILDEWED AREA. ALLOW SOLUTION TO REMAIN ON THE SURFACE FOR 10 MINUTES. RINSE THOROUGHLY WITH CLEAN WATER AND ALLOW THE SURFACE TO DRY BEFORE PAINTING. WEAR PROTECTIVE GLASSES OR GOGGLES, WATERPROOF GLOVES, AND PROTECTIVE CLOTHING. QUICKLY WASH OFF ANY OF THE MIXTURE THAT COMES IN CONTACT WITH YOUR SKIN. DO NOT ADD DETERGENTS OR AMMONIA TO THE BLEACH/WATER SOLUTION.
  3. REMOVE ITEMS INCLUDING BUT NOT LIMITED TO THERMOSTATS, ELECTRICAL OUTLETS, SWITCH COVERS AND SIMILAR ITEMS PRIOR TO PAINTING. AFTER COMPLETING PAINTING OPERATIONS IN EACH SPACE OR AREA, REINSTALL ITEMS REMOVED USING WORKERS SKILLED IN THE TRADES INVOLVED.
  4. NO EXTERIOR PAINTING SHOULD BE DONE IMMEDIATELY AFTER A RAIN, DURING FOGGY WEATHER, WHEN RAIN IS PREDICTED, OR WHEN THE TEMPERATURE IS BELOW 50 DEGREES F (10 DEGREES C), UNLESS PRODUCTS ARE DESIGNED SPECIFICALLY FOR THESE CONDITIONS. ON LARGE EXPANSES OF METAL SIDING, THE AIR, SURFACE, AND MATERIAL TEMPERATURES MUST BE 50 DEGREES F (10 DEGREES C) OR HIGHER TO USE LOW TEMPERATURE PRODUCTS.
- B. ALUMINUM: REMOVE ALL OIL, GREASE, DIRT, OXIDE, AND OTHER FOREIGN MATERIAL BY CLEANING PER SSPC-SP1, SOLVENT CLEANING.
- C. CEMENT COMPOSITION SIDING/PANELS: REMOVE ALL SURFACE CONTAMINATION BY WASHING WITH AN APPROPRIATE CLEANER, RINSE THOROUGHLY AND ALLOW TO DRY. EXISTING PEELED OR CHECKED PAINT SHOULD BE SCRAPPED AND SANDED TO A SOUND SURFACE. PRESSURE CLEAN, IF NEEDED, WITH A MINIMUM OF 2100 PSI PRESSURE TO REMOVE ALL DIRT, DUST, GREASE, OIL, LOOSE PARTICLES, LAITANCE, FOREIGN MATERIAL, AND PEELING OR DEFECTIVE COATINGS. ALLOW THE SURFACE TO DRY THOROUGHLY. THE PH OF THE SURFACE SHOULD BE BETWEEN 6 AND 9 UNLESS THE PRODUCTS ARE DESIGNED TO BE USED IN HIGH PH ENVIRONMENTS.
- D. COPPER AND STAINLESS STEEL: REMOVE ALL OIL, GREASE, DIRT, OXIDE, AND OTHER FOREIGN MATERIAL BY CLEANING PER SSPC-SP 2, HAND TOOL CLEANING.

- E. EXTERIOR COMPOSITION BOARD (HARDBOARD): SOME COMPOSITION BOARDS MAY EXUDE A WAXY MATERIAL THAT MUST BE REMOVED WITH A SOLVENT PRIOR TO COATING. WHETHER FACTORY PRIMED OR UNPRIMED, EXTERIOR COMPOSITION BOARD SIDING (HARDBOARD) MUST BE CLEANED THOROUGHLY AND PRIMED WITH AN ALKYL PRIMER.
- F. GALVANIZED METAL: CLEAN PER SSPC-SP1 USING DETERGENT AND WATER OR A DEGREASING CLEANER TO REMOVE GREASES AND OILS. APPLY TO A TEST AREA, PRIMING AS REQUIRED. ALLOW THE COATING TO DRY AT LEAST ONE WEEK BEFORE TESTING. IF ADHESION IS POOR, BRUSH BLAST PER SSPC-SP16 IS NECESSARY TO REMOVE THESE TREATMENTS.
- G. STEEL: STRUCTURAL, PLATE, AND SIMILAR ITEMS SHOULD BE CLEANED BY ONE OR MORE OF THE SURFACE PREPARATIONS DESCRIBED BELOW. THESE METHODS ARE USED THROUGHOUT THE WORLD FOR DESCRIBING METHODS FOR CLEANING STRUCTURAL STEEL. VISUAL STANDARDS ARE AVAILABLE THROUGH THE SOCIETY OF PROTECTIVE COATINGS. A BRIEF DESCRIPTION OF THESE STANDARDS TOGETHER WITH NUMBERS BY WHICH THEY CAN BE SPECIFIED FOLLOW.
  1. HAND TOOL CLEANING, SSPC-SP2: HAND TOOL CLEANING REMOVES ALL LOOSE MILL SCALE, LOOSE RUST, AND OTHER DETRIMENTAL FOREIGN MATTER. IT IS NOT INTENDED THAT ADHERENT MILL SCALE, RUST, AND PAINT BE REMOVED BY THIS PROCESS. BEFOREHAND TOOL CLEANING, REMOVE VISIBLE OIL, GREASE, SOLUBLE WELDING RESIDUES, AND SALTS BY THE METHODS OUTLINED IN SSPC-SP1.
  2. POWER TOOL CLEANING, SSPC-SP3: POWER TOOL CLEANING REMOVES ALL LOOSE MILL SCALE, LOOSE RUST, AND OTHER DETRIMENTAL FOREIGN MATTER. IT IS NOT INTENDED THAT ADHERENT MILL SCALE, RUST, AND PAINT BE REMOVED BY THIS PROCESS. BEFORE POWER TOOL CLEANING, REMOVE VISIBLE OIL, GREASE, SOLUBLE WELDING RESIDUES, AND SALTS BY THE METHODS OUTLINED IN SSPC-SP1.
- H. WOOD: MUST BE CLEAN AND DRY. PRIME AND PAINT AS SOON AS POSSIBLE. KNOTS AND PITCH STREAKS MUST BE SCRAPPED, SANDED, AND SPOT PRIMED BEFORE A FULL PRIMING COAT IS APPLIED. PATCH ALL NAIL HOLES AND IMPERFECTIONS WITH A WOOD FILLER OR PUTTY AND SAND SMOOTH.

3.3 INSTALLATION

- A. APPLY ALL COATINGS AND MATERIALS WITH THE MANUFACTURER'S SPECIFICATIONS IN MIND. MIX AND THIN COATINGS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- B. DO NOT APPLY IT TO WET OR DAMP SURFACES. WAIT AT LEAST 30 DAYS BEFORE APPLYING TO NEW CONCRETE OR MASONRY. OR FOLLOW MANUFACTURER'S PROCEDURES TO APPLY APPROPRIATE COATINGS PRIOR TO 30 DAYS. TEST NEW CONCRETE FOR MOISTURE CONTENT. WAIT UNTIL WOOD IS FULLY DRY AFTER RAIN OR MORNING FOG OR DEW.
- C. APPLY COATINGS USING METHODS RECOMMENDED BY MANUFACTURER.
- D. UNIFORMLY APPLY COATINGS WITHOUT RUNS, DRIPS, OR SAGS, WITHOUT BRUSH MARKS, AND WITH CONSISTENT SHEEN.
- E. APPLY COATINGS AT SPREADING RATE REQUIRED TO ACHIEVE THE MANUFACTURER'S RECOMMENDED DRY FILM THICKNESS.
- F. REGARDLESS OF THE NUMBER OF COATS SPECIFIED, APPLY AS MANY COATS AS NECESSARY FOR COMPLETE HIDE, AND UNIFORM APPEARANCE.
- G. INSPECTION: THE COATED SURFACE MUST BE INSPECTED AND APPROVED BY THE ARCHITECT JUST PRIOR TO THE APPLICATION OF EACH COAT.

3.4 PROTECTION

- A. PROTECT FINISHED COATINGS FROM DAMAGE UNTIL COMPLETION OF PROJECT.
- B. TOUCH-UP DAMAGED COATINGS AFTER SUBSTANTIAL COMPLETION, FOLLOWING MANUFACTURER'S RECOMMENDATION FOR TOUCH UP OR REPAIR OF DAMAGED COATINGS. REPAIR ANY DEFECTS THAT WILL HINDER THE PERFORMANCE OF THE COATINGS.

END OF SECTION 099000A

REVISIONS	

CLIENT INFORMATION
<b>TOWN OF VIENNA</b>
<b>TOWN GREEN AMPHITHEATER - COLUMN REPAIRS</b>

KEY PLAN

GRAPHIC SCALES

SIGNATURE

**WRA**  
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ARCHITECTURAL SPECIFICATIONS		
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<b>A10.03</b>		
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# GENERAL STRUCTURAL NOTES

## GENERAL

- GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL SCOPE AND DIRECTIONS INDICATED IN THE DRAWINGS, UNLESS NOTED OTHERWISE.
- GENERAL CONTRACTOR MUST REPAIR ANY DAMAGES TO EXISTING STRUCTURE CAUSED BY THEIR WORK AT THEIR EXPENSE.
- THIS PROJECT CONSISTS OF THE REPLACEMENT OF EXISTING COLUMNS ASSOCIATED WITH THE TOWN GREEN AMPHITHEATER. REPAIRS AND REPLACEMENTS OF BUILDING COMPONENTS WILL GENERALLY MATCH THE LAYOUT AND GEOMETRY OF THE ORIGINAL COMPONENTS, EXCEPT WHERE INDICATED OTHERWISE.
- DIMENSIONS AND LAYOUT OF THE EXISTING COLUMNS SHOWN ARE BASED ON BASE BUILDING DRAWINGS PROVIDED BY THE TOWN OF VIENNA AND A FIELD OBSERVATION BY WRA ON 06/06/2023. A PARTIAL SET OF DRAWINGS OF THE AMPHITHEATER WERE AVAILABLE FOR OUR USE. EXISTING CONDITIONS MAY DIFFER FROM THOSE INDICATED ON THESE DRAWINGS.
- FIELD VERIFY DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON DRAWINGS FOR EXISTING STRUCTURES. BRING DISCREPANCIES TO THE ATTENTION OF WRA BEFORE PROCEEDING WITH THE WORK.
- COORDINATE ACTIVITIES WITH THE TOWN OF VIENNA PROJECT REPRESENTATIVE TO MINIMIZE DISRUPTION OF PARK OPERATIONS.
- THE SPECIAL INSPECTION PROGRAM AND SPECIAL INSPECTOR WILL BE PROCURED AND FUNDED BY TOWN OF VIENNA. COORDINATE APPLICABLE ACTIVITIES AND SCHEDULE WITH THE TOWN OF VIENNA, SPECIAL INSPECTOR, AND THE STATEMENT OF SPECIAL INSPECTIONS.
- SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DO NOT OBTAIN DIMENSIONAL INFORMATION FROM DIRECT SCALING OF THE DRAWINGS.
- CLEAN THE WORK AREA AT THE END OF EACH WORKDAY, INCLUDING STOWING AWAY GEAR, PLACING PROTECTIVE BARRIERS AND REMOVING AND DISPOSING OF ALL TRASH AND CONSTRUCTION DEBRIS. ALL OF THESE ACTIVITIES ARE AT THE CONTRACTOR'S EXPENSE.
- SUBMIT MATERIAL, PRODUCT, AND PROCEDURAL SUBMITTALS AND SHOP DRAWINGS WITH ADEQUATE TIME FOR REVIEW AND APPROVALS PRIOR TO THE START OF THE WORK. THE FIRST SUBMITTAL SHALL BE A SUBMITTAL LOG AND SCHEDULE.
- WORK AREAS MUST BE PROTECTED FROM VEHICLE AND PEDESTRIAN ACCESS UNTIL CONSTRUCTION IS COMPLETE AND CONCRETE HAS ACHIEVED FULL DESIGN COMPRESSIVE STRENGTH.
- PROTECT OR REMOVE EXISTING LIGHT FIXTURES, FIRE ALARM DEVICES, UTILITIES, CONDUITS AND OTHER ITEMS WITHIN THE WORK AREAS AS NEEDED TO PERFORM THE WORK. REMOVED ITEMS THAT SERVE AS PERMANENT FIXTURES MUST BE REPLACED OR RELOCATED FOLLOWING COMPLETION OF THE CONSTRUCTION. COORDINATE ALL REMOVAL AND UTILITY WORK WITH TOWN OF VIENNA. REQUESTS FOR ANY TYPE OF UTILITY OUTAGE MUST BE MADE TO THE TOWN OF VIENNA AT LEAST 21 DAYS PRIOR TO THE REQUESTED OUTAGE.
- JBSITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PROTECTION OF WORK ZONES, AND THE SAFETY OF THE CONTRACTOR'S PERSONNEL DURING MOVEMENT OF MATERIALS TO AND FROM WORK ZONES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ENCLOSE THE AREA OF THE WORK WITH CHAIN LINK FENCING. COORDINATE FENCE PERIMETER WITH TOWN OF VIENNA PROJECT REPRESENTATIVE.
- PROVIDE SILT FENCING AROUND THE CREEK AREA. COORDINATE REQUIREMENTS WITH TOWN OF VIENNA PROJECT REPRESENTATIVE.
- THE DESIGN BASIS FOR THE REPLACEMENT OF THE WOOD COLUMNS ASSUMES THE CONTRACTOR WILL REMOVE AND SALVAGE THE EXISTING ROOF PRIOR TO PERFORMING THE WORK ON THE COLUMNS. DESIGN BASIS ASSUMES THE CONTRACTOR WILL RE-INSTALL THE EXISTING ROOF FOLLOWING COMPLETION OF THE COLUMN WORK, INCLUDING VERIFICATION THAT COLUMN AND FOOTING CONCRETE HAS ACHIEVED ITS 28-DAY DESIGN STRENGTH. CONCRETE STRENGTH MUST BE VERIFIED BY COMPRESSIVE-STRENGTH TESTS ON FIELD-CURED CYLINDERS. CONSTRUCTION MEANS AND METHODS REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IF TEMPORARY SHORING DURING CONSTRUCTION IS REQUIRED, TEMPORARY SHORING DESIGN IS DELEGATED TO THE CONTRACTOR. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE TEMPORARY SHORING SYSTEM, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA.
- LOCATE AND MARK ALL LOCATIONS OF EXISTING UTILITIES WITHIN THE AREA OF WORK PRIOR TO PROCEEDING WITH ANY OTHER WORK ACTIVITIES.

## CONCRETE

- PROVIDE NORMAL-WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS.
- EXTERIOR CONCRETE MUST BE AIR ENTRAINED.
- DETAIL AND CONSTRUCT REINFORCED CONCRETE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE", AND AS SPECIFIED HEREIN.
- DETAIL REINFORCING STEEL IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" AND ACI SP-66, "ACI DETAILING MANUAL."
- PROVIDE REINFORCING STEEL CONFORMING TO ASTM A615, GRADE 60, DEFORMED BARS.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:  
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH OR FILL: 3"  
B. CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH EARTH OR FILL: 2"
- SUBMIT REINFORCING STEEL DETAILS (SHOP DRAWINGS) AND RECEIVE APPROVAL FROM WRA BEFORE PROCEEDING WITH FABRICATION.
- CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS NOTED OTHERWISE.
- PROVIDE JOINTS ONLY AS DETAILED ON THE DRAWINGS AND ON APPROVED SHOP DRAWINGS. DO NOT PROVIDE ADDITIONAL JOINTS NOR OMIT ANY JOINTS EXCEPT BY WRITTEN AUTHORIZATION FROM WRA. APPROVED ADDITIONAL JOINTS MUST NOT RESULT IN ADDITIONAL EXPENSE TO THE OWNER.
- PROVIDE CONSTRUCTION JOINT INTERFACE CLEAN AND FREE OF LAITANCE. WHERE INDICATED ON THE DRAWINGS, INTENTIONALLY ROUGHEN CONSTRUCTION JOINTS TO A FULL AMPLITUDE OF 1/4 INCH. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS MUST BE PREWETTED AND STANDING WATER REMOVED.
- COLD WEATHER PLACEMENT OF CONCRETE MUST BE IN ACCORDANCE WITH ACI 306R, ACI 306.1, AND THE SPECIFICATIONS.
- HOT WEATHER PLACEMENT OF CONCRETE MUST BE IN ACCORDANCE WITH ACI 305R, ACI 305.1, AND THE SPECIFICATIONS.

## WOOD

- WOOD CONSTRUCTION SHALL CONFORM TO THE ANSI/AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION (NDS).
- ALL STRUCTURAL WOOD MEMBERS SHALL BE SOUTHERN PINE VISUALLY GRADED "NO 1" OR BETTER.
- ALL WOOD IS TO BE PRESSURE TREATED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWP A U1 STANDARD.
- DO NOT ADD FASTENER HOLES OR OTHERWISE MODIFY SIMPSON STRONG-TIE COMPANY INC. PRODUCTS. THE PERFORMANCE OF MODIFIED PRODUCTS MAY BE SUBSTANTIALLY WEAKENED. SIMPSON STRONG-TIE WILL NOT WARRANT OR GUARANTEE THE PERFORMANCE OF SUCH MODIFIED PRODUCTS.
- SIMPSON CONNECTORS: AS NOTED AND PROVIDED BY WWW.STRONGTIE.COM INSTALLED IN STRICT ACCORDANCE WITH THEIR GUIDELINES.
- DESIGN BASIS FOR WOOD CONNECTIONS IS INDICATED ABOVE. SUBSTITUTIONS WILL BE CONSIDERED, BUT PRODUCT MUST MEET OR EXCEED ALL CRITERIA OF THE SPECIFIED CONNECTION. SUBMIT PROPOSED SUBSTITUTION PRODUCTS TO ENGINEER FOR APPROVAL.

## SHALLOW FOUNDATIONS AND SLABS-ON-GROUND

- SHALLOW FOUNDATIONS MUST BEAR UPON UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. OBTAIN THE SERVICES OF A GEOTECHNICAL ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA WHO IS RESPONSIBLE FOR VERIFICATION OF THE SPECIFIED MINIMUM ALLOWABLE BEARING CAPACITY AT EACH FOOTING.
- SHALLOW FOUNDATION ELEVATIONS SHOWN ON THE DRAWINGS ARE MINIMUM EXCAVATION DEPTHS. EXCAVATE FURTHER AS REQUIRED TO REMOVE UNSATISFACTORY SOILS TO A LAYER WITH THE MINIMUM SPECIFIED ALLOWABLE BEARING CAPACITY. WHERE REQUIRED, PROVIDE COMPACTED ENGINEERED FILL TO ACHIEVE THE REQUIRED SUBGRADE ELEVATIONS. NOTIFY THE ENGINEER OF ANY CONDITIONS THAT REQUIRE CHANGES IN FOUNDATION ELEVATIONS.
- PLACE SHALLOW FOUNDATIONS ON THE SAME DAY THAT THE BEARING SURFACE IS INSPECTED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER. ANY BEARING SURFACE NOT PLACED ON THE SAME DAY OF INITIAL INSPECTION MUST BE RE-INSPECTED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER ON THE DAY CONCRETE IS PLACED.
- KEEP EXCAVATIONS DRY.
- MINIMUM DEPTH BELOW GRADE FOR BOTTOM OF FOUNDATIONS FOR FROST PROTECTION IS 24 INCHES.

## ADHESIVE ANCHORS

- PROVIDE THE FOLLOWING ANCHOR SYSTEMS, OR APPROVED EQUALS:  
A. ANCHORAGE TO CONCRETE  
i. HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM.
- PROVIDE TYPE 316 STAINLESS STEEL ANCHORS.
- INSTALL ADHESIVE ANCHORS WITH A MINIMUM EDGE DISTANCE OF 3 INCHES TO ANY FREE EDGE OF CONCRETE OR EDGE DISTANCE INDICATED ON DRAWINGS, WHICHEVER IS GREATER.
- INSTALL ADHESIVE ANCHORS WITH TRAINED QUALIFIED PERSONNEL, IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
- PROVIDE THOROUGHLY CLEANED ANCHOR HOLES PRIOR TO ADHESIVE INJECTION, AS REQUIRED BY THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. PROTECT DRILLED AND CLEANED ANCHOR HOLES FROM CONTAMINATION UNTIL THE ADHESIVE IS INSTALLED.
- PROVIDE ANCHORS CLEAN, OIL-FREE, AND FREE OF LOOSE RUST, PAINT, OR OTHER COATINGS.
- PROVIDE INSTALLED ADHESIVE ANCHORS SECURELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES.
- ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. WRA MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
- DO NOT DAMAGE EXISTING REINFORCING STEEL IN THE MASONRY DURING ANCHOR INSTALLATION, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PRIOR TO ANCHOR INSTALLATION, DETERMINE LOCATION OF EXISTING REINFORCING STEEL BY NON-DESTRUCTIVE MEANS AND NOTIFY THE WRA OF ANY CONFLICTS BETWEEN REINFORCING STEEL AND ANCHOR LOCATION PRIOR TO FABRICATION OF MATERIALS.
- DESIGN BASIS FOR ADHESIVE ANCHORS IS INDICATED ABOVE. SUBSTITUTIONS WILL BE CONSIDERED, BUT PRODUCT MUST MEET OR EXCEED ALL CRITERIA OF THE SPECIFIED ANCHOR. SUBSTITUTION REQUESTS MUST BE APPROVED IN WRITING BY THE WRA PRIOR TO USE. PROVIDE PRODUCT DATA AND CALCULATIONS DEMONSTRATING THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURES AND INSTALLATION TEMPERATURE.

## STRUCTURAL ABBREVIATIONS

ADDL	ADDITIONAL
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
AWS	AMERICAN WELDING SOCIETY
ARCH	ARCHITECT
BOT	BOTTOM
BOS	BOTTOM OF STEEL
CLR	CLEAR
COL	COLUMN
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONTR	CONTRACT, CONTRACTOR
CONT	CONTINUE, CONTINUOUS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSI	CONSTRUCTION SPECIFICATION INSTITUTE
DEMO	DEMOLITION/DEMOLISH
DET	DETAIL
DWG	DRAWING
EQ	EQUAL
EL	ELEVATION
EXIST	EXISTING
FDN	FOUNDATION
FLG	FLANGE
FT	FOOT/FEET
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
IBC	INTERNATIONAL BUILDING CODE
JT	JOINT
LF	LINEAR FOOT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MIN	MINIMUM
OPP	OPPOSITE
SQ	SQUARE
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD(S)
STRUCT	STRUCTURAL
TOS	TOP OF STEEL
TYP	TYPICAL
VCC	VIRGINIA CONSTRUCTION CODE
VIF	VERIFY IN FIELD

## CODES AND STANDARDS

- VIRGINIA CONSTRUCTION CODE, VCC (2021), PART I OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC).
- VIRGINIA EXISTING CONSTRUCTION CODE, VEBC (2021), PART II OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC).
- INTERNATIONAL BUILDING CODE, IBC (2021), INCLUDING THE MODIFICATIONS MADE BY LOCAL JURISDICTION.
- INTERNATIONAL EXISTING BUILDING CODE, IEBC (2021), INCLUDING THE MODIFICATIONS MADE BY LOCAL JURISDICTION.
- AMERICAN CONCRETE INSTITUTE ACI 318 (2019), "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE 7 (2022), "MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES".
- AMERICAN WOOD COUNCIL (2018), "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".

## DESIGN LOADS AND CRITERIA

ALL LOADS INDICATED BELOW ARE UNFACTORED

- RISK CATEGORY: II
- DEAD LOADS:  
A. STRUCTURES: ACTUAL WEIGHT  
B. WEIGHT OF SOIL - 120 PCF FOR DEAD LOAD
- LIVE LOADS:  
A. ROOF: 20 PSF
- SNOW LOAD (ULTIMATE):  
A. GROUND SNOW LOAD (PG): 68 PSF  
B. EXPOSURE FACTOR (CE): 1.0  
C. THERMAL FACTOR (CT): 1.2
- WIND LOAD:  
A. ULTIMATE WIND SPEED (VULT): 112 MPH  
B. NOMINAL WIND SPEED (VASD): 89 MPH  
C. EXPOSURE CATEGORY: C  
D. INTERNAL PRESSURE COEFFICIENT: 0  
E. COMPONENTS AND CLADDING: PER ASCE 7-22
- SEISMIC LOAD:  
A. SEISMIC IMPORTANCE FACTOR (IE): 1.0  
B. MAXIMUM EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS: SS=0.15G  
C. MAXIMUM EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT ONE-SECOND: S1=0.042G  
D. SITE CLASSIFICATION: D  
E. SITE SEISMIC COEFFICIENT: FA=1.6; FV=2.4  
F. SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.13G; SD1 = 0.06G  
G. SEISMIC DESIGN CATEGORY: A  
H. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

## REVISIONS


## CLIENT INFORMATION

TOWN OF VIENNA

TOWN GREEN AMPHITHEATER - COLUMN REPAIRS

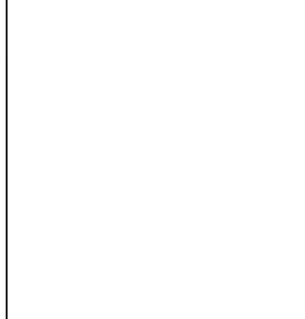
## KEY PLAN



## GRAPHIC SCALES



## SIGNATURE



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GENERAL STRUCTURAL NOTES,  
LOADS, AND CODES AND STANDARDS

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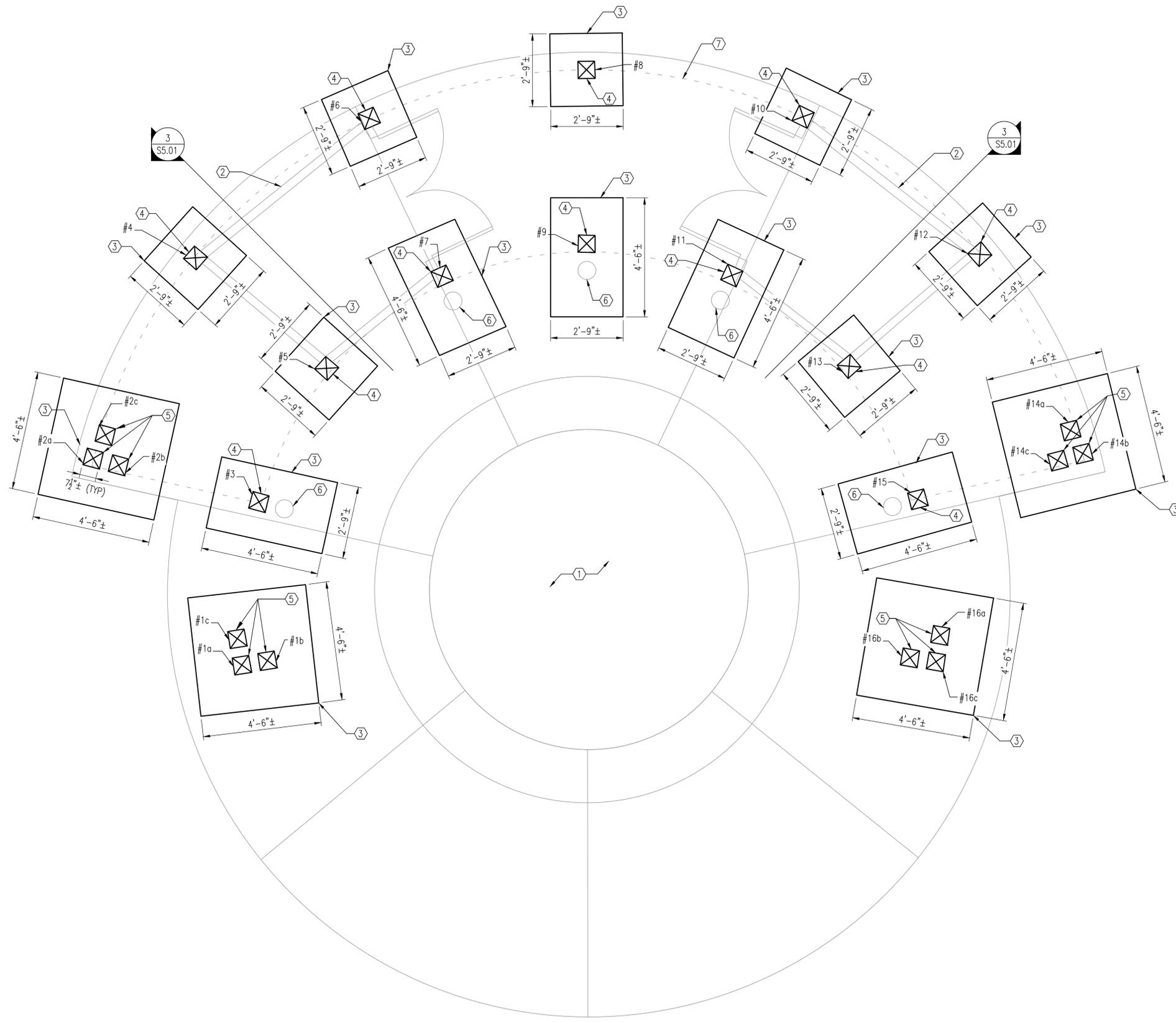
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**DEMOLITION FLOOR PLAN**  
 SCALE: 1/2" = 1'-0"

**GENERAL SHEET NOTES**

- REFER TO SHEET S0.01 FOR GENERAL STRUCTURAL NOTES, DESIGN LOADS, AND BUILDING CODES AND STANDARDS.
- EXISTING CONDITIONS ON THIS SHEET ARE PER THE ORIGINAL BUILDING DRAWINGS AND PER FIELD OBSERVATIONS BY WRA. ACTUAL SITE CONDITIONS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS. CONTRACTOR MUST OBSERVE THE EXISTING CONDITIONS IN THE WORK AREA PRIOR TO SUBMITTING BID FOR WORK AND SHOULD ACCOUNT FOR VARYING CONDITIONS.
- THE DESIGN BASIS FOR THE REPLACEMENT OF THE WOOD COLUMNS ASSUMES THE CONTRACTOR WILL REMOVE AND SALVAGE THE EXISTING ROOF PRIOR TO PERFORMING THE WORK ON THE COLUMNS, AND THE CONTRACTOR WILL RE-INSTALL THE ROOF AFTER COLUMN WORK IS COMPLETE AND CONCRETE PIERS AND FOOTINGS HAVE REACHED THEIR DESIGN STRENGTHS. CONSTRUCTION MEANS AND METHODS REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR MUST SURVEY AND DOCUMENT LOCATIONS OF ALL EXISTING STRUCTURAL COMPONENTS PRIOR TO COMMENCING WITH ANY DEMOLITION SCOPE.
- IF TEMPORARY SHORING DURING CONSTRUCTION IS REQUIRED, TEMPORARY SHORING DESIGN IS DELEGATED TO THE CONTRACTOR.
- ENCLOSE THE AREA OF THE WORK WITH CHAIN LINK FENCING. COORDINATE FENCE PERIMETER WITH TOWN OF VIENNA PROJECT REPRESENTATIVE.
- PROVIDE SILT FENCING AROUND THE CREEK AREA. COORDINATE REQUIREMENTS WITH TOWN OF VIENNA PROJECT REPRESENTATIVE.

**SHEET KEYNOTES**

- EXISTING 6" +/- THICK CONCRETE PAVING TO BE SELECTIVELY DEMOLISHED AS INDICATED.
- REMOVE AND SALVAGE EXISTING WOOD WALLS ROOF, AND DOORS FOR EACH EXISTING STORAGE CLOSET.
- SELECTIVE DEMOLITION OF SECTION OF CONCRETE PAVING AT APPROXIMATE DIMENSIONS INDICATED. AT PERIMETER OF PAVING, EXCAVATE ADJACENT GRADE TO BOTTOM OF EXISTING FOUNDATION. DEMOLITION/EXCAVATION MUST BE LARGE ENOUGH TO PERMIT DEMOLITION OF EXISTING COLUMN AND FOOTING AND PERMIT ERECTION OF NEW WOOD COLUMNS AND CONCRETE FOOTING AND PIERS.
- DEMOLISH ENTIRE LENGTH OF ONE 8" X 8" (+/-) WOOD COLUMN AND THE ASSOCIATED COLUMN FOOTING (3'-0" +/- DEEP X 1'-8" +/- WIDE) AS INDICATED ON SECTION 1/S5.01.
- DEMOLISH ENTIRE LENGTH OF THREE 8" X 8" (+/-) WOOD COLUMNS AND THE ASSOCIATED COMBINED COLUMN FOOTING (3'-0" +/- DEEP X 4'-0" +/- WIDE) AS INDICATED ON SECTION 2/S5.01.
- REMOVE AND SALVAGE EXISTING ROUND STEEL POST. DEMOLISH THE ASSOCIATED FOOTING.
- REMOVE AND SALVAGE EXISTING WOOD TRELLIS FRAMING ABOVE.

**SHEET LEGEND**

☒	DEMOLISH ENTIRE LENGTH OF WOOD COLUMN AND ASSOCIATED FOOTING BELOW
○	EXISTING STEEL COLUMN (REMOVE AND SALVAGE)

REVISIONS	

CLIENT INFORMATION

**TOWN OF VIENNA**

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TOWN GREEN AMPHITHEATER - COLUMN REPAIRS

KEY PLAN

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GRAPHIC SCALES

SIGNATURE

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**DEMOLITION FLOOR PLAN**

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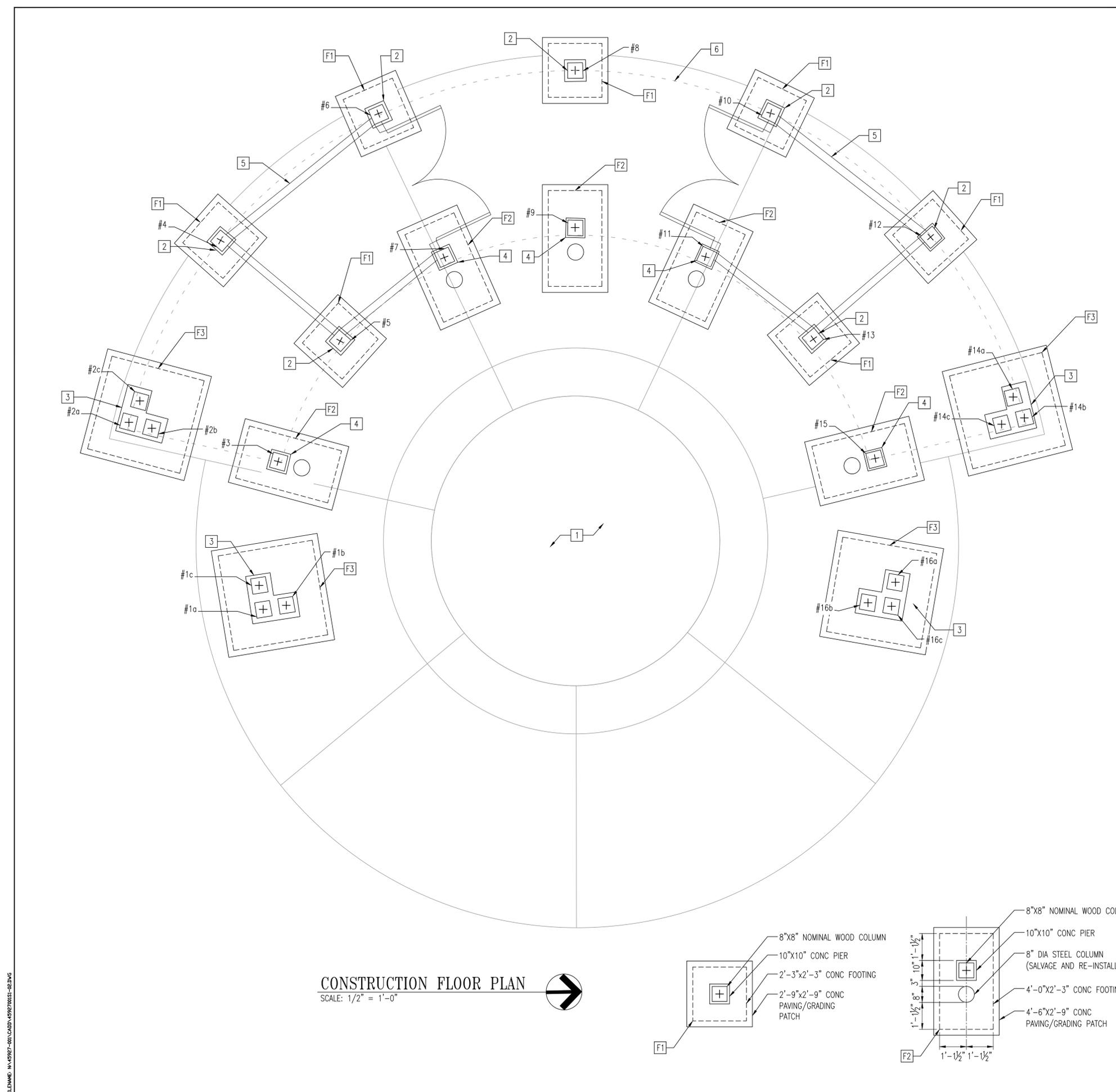
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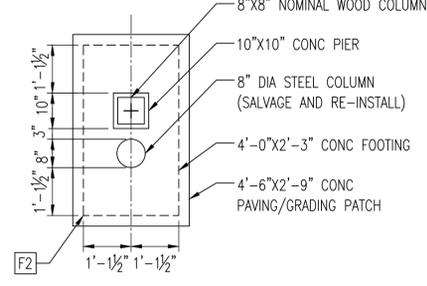
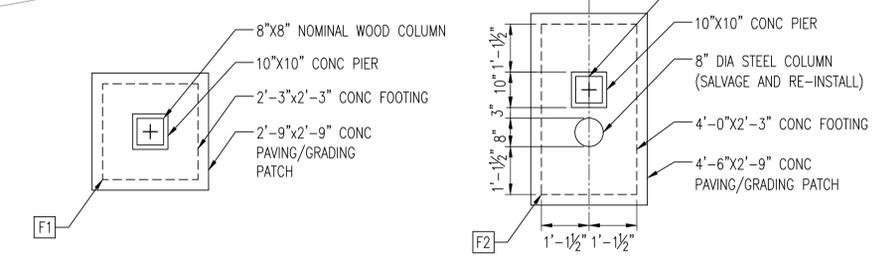
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**CONSTRUCTION FLOOR PLAN**  
SCALE: 1/2" = 1'-0"



**GENERAL SHEET NOTES**

- REFER TO SHEET S0.01 FOR GENERAL STRUCTURAL NOTES, DESIGN LOADS, AND BUILDING CODES AND STANDARDS.
- EXISTING CONDITIONS ON THIS SHEET ARE PER THE ORIGINAL BUILDING DRAWINGS AND PER FIELD OBSERVATIONS BY WRA. ACTUAL SITE CONDITIONS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS. CONTRACTOR MUST OBSERVE THE EXISTING CONDITIONS IN THE WORK AREA PRIOR TO SUBMITTING BID FOR WORK AND SHOULD ACCOUNT FOR VARYING CONDITIONS.
- THE DESIGN BASIS FOR THE REPLACEMENT OF THE WOOD COLUMNS ASSUMES THE CONTRACTOR WILL REMOVE AND SALVAGE THE EXISTING ROOF PRIOR TO PERFORMING THE WORK ON THE COLUMNS, AND THE CONTRACTOR WILL RE-INSTALL THE ROOF AFTER COLUMN WORK IS COMPLETE AND CONCRETE PIERS AND FOOTINGS HAVE REACHED THEIR DESIGN STRENGTHS. CONSTRUCTION MEANS AND METHODS REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR MUST SURVEY AND DOCUMENT LOCATIONS OF ALL EXISTING STRUCTURAL COMPONENTS PRIOR TO COMMENCING WITH ANY DEMOLITION SCOPE.
- IF TEMPORARY SHORING DURING CONSTRUCTION IS REQUIRED, TEMPORARY SHORING DESIGN IS DELEGATED TO THE CONTRACTOR.
- ENCLOSE THE AREA OF THE WORK WITH CHAIN LINK FENCING. COORDINATE FENCE PERIMETER WITH TOWN OF VIENNA PROJECT REPRESENTATIVE.
- PROVIDE SILT FENCING AROUND THE CREEK AREA. COORDINATE REQUIREMENTS WITH TOWN OF VIENNA PROJECT REPRESENTATIVE.

**SHEET KEYNOTES**

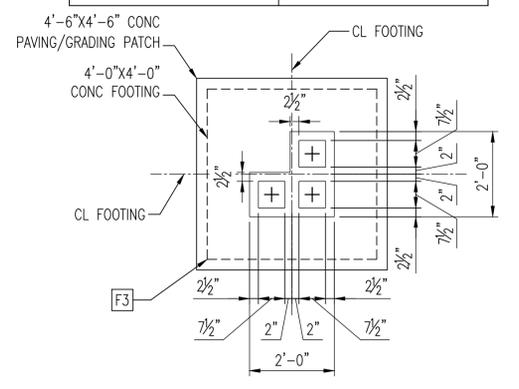
- EXISTING 6" +/- THICK CONCRETE PAVING.
- PROVIDE WOOD COLUMN, CONCRETE PIER, CONCRETE FOOTING, AND CONCRETE PAVING PATCH IN ACCORDANCE WITH SECTION 1/S5.02.
- PROVIDE THREE WOOD COLUMNS, COMBINED CONCRETE PIER, COMBINED CONCRETE FOOTING, AND CONCRETE PAVING PATCH IN ACCORDANCE WITH SECTION 2/S5.02.
- RE-INSTALL SALVAGED STEEL POST AND PROVIDE WOOD COLUMN, CONCRETE PIER, CONCRETE FOOTING, AND CONCRETE PAVING PATCH IN ACCORDANCE WITH SECTION 4/S5.02.
- RE-INSTALL SALVAGED WOOD WALLS, ROOF, AND DOORS FOR STORAGE CLOSET.
- RE-INSTALL SALVAGED WOOD TRELLIS FRAMING.

**FOOTING SCHEDULE**

MARK	DIMENSIONS (LxWxH)	REINF
F1	2'-3"x2'-3"x1'-0"	3-#5, BOT, EW
F2	4'-0"x2'-3"x1'-0"	5-#5 SHORT BARS, 3-#5 LONG BARS, BOT
F3	4'-0"x4'-0"x1'-0"	5-#5, BOT, EW

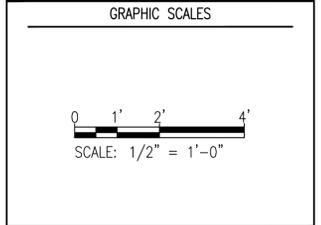
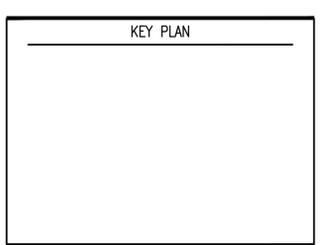
**SHEET LEGEND**

	NEW WOOD COLUMN ON NEW CONCRETE PIER AND FOOTING
	RE-INSTALL SALVAGED STEEL POST IN ITS ORIGINAL LOCATION



REVISIONS	

CLIENT INFORMATION  
**TOWN OF VIENNA**  
TOWN GREEN AMPHITHEATER - COLUMN REPAIRS

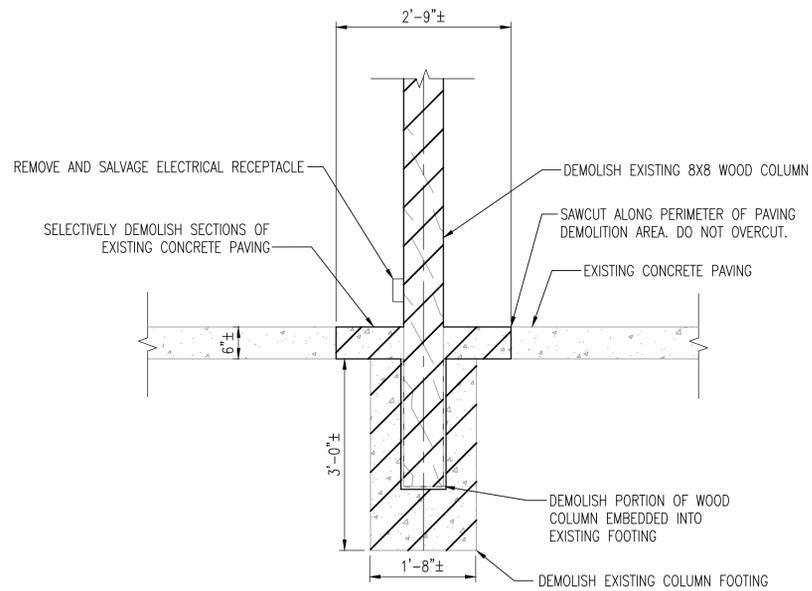


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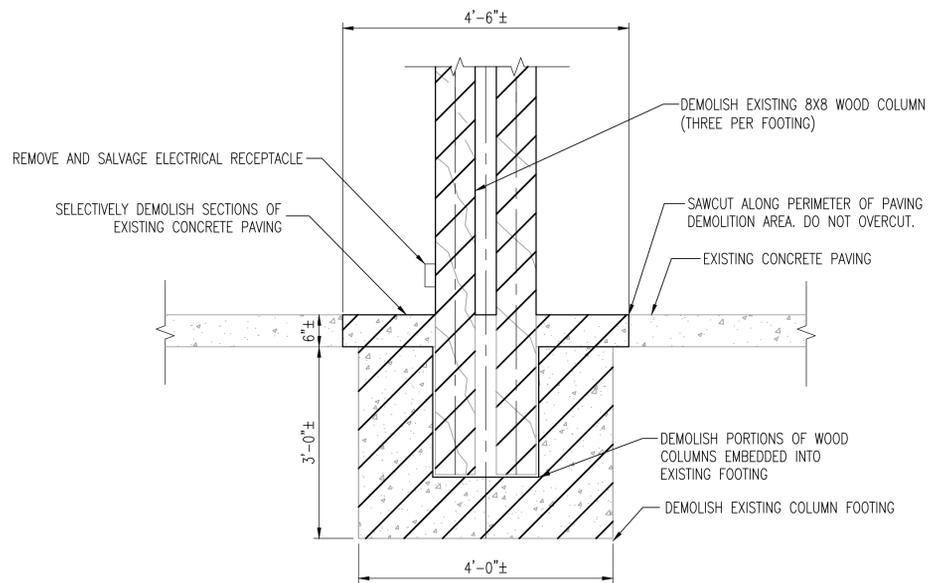


**CONSTRUCTION FLOOR PLAN**  
DRAWING NO.  
**S1.02**  
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DATE: 09/30/2025 SHEET 4 OF 12  
DES: AMH DRAWN: AMH CHECK: BMB

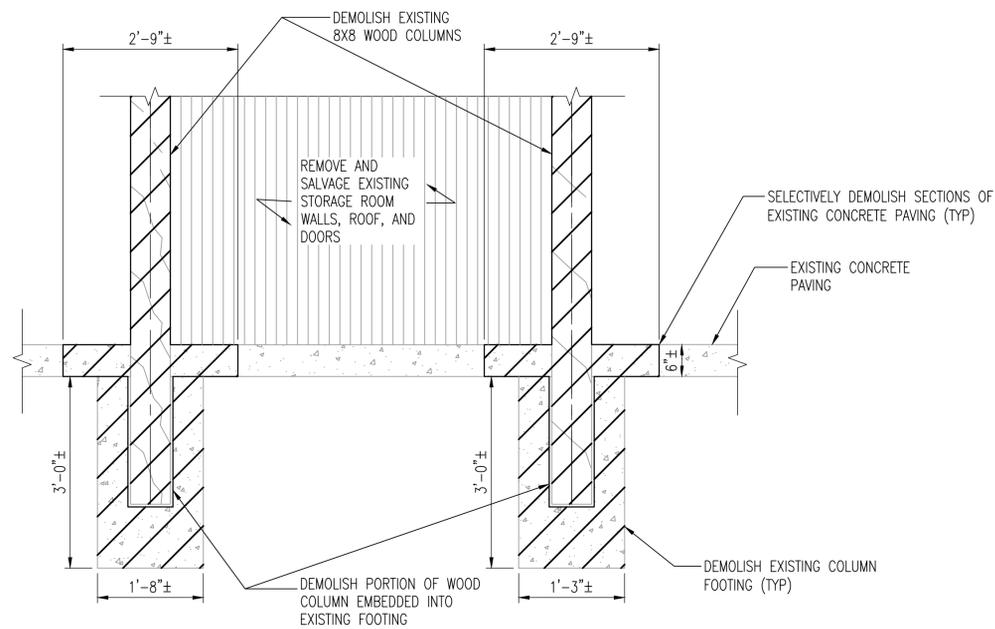
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**1 SECTION**  
 S5.01 SCALE: 3/4" = 1'-0"  
 REF: S1.01



**2 SECTION**  
 S5.01 SCALE: 3/4" = 1'-0"  
 REF: S1.01

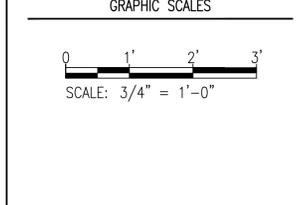


**3 SECTION**  
 S5.01 SCALE: 3/4" = 1'-0"  
 REF: S1.01

REVISIONS	

CLIENT INFORMATION  
**TOWN OF VIENNA**  
 TOWN GREEN AMPHITHEATER - COLUMN REPAIRS

KEY PLAN



SIGNATURE

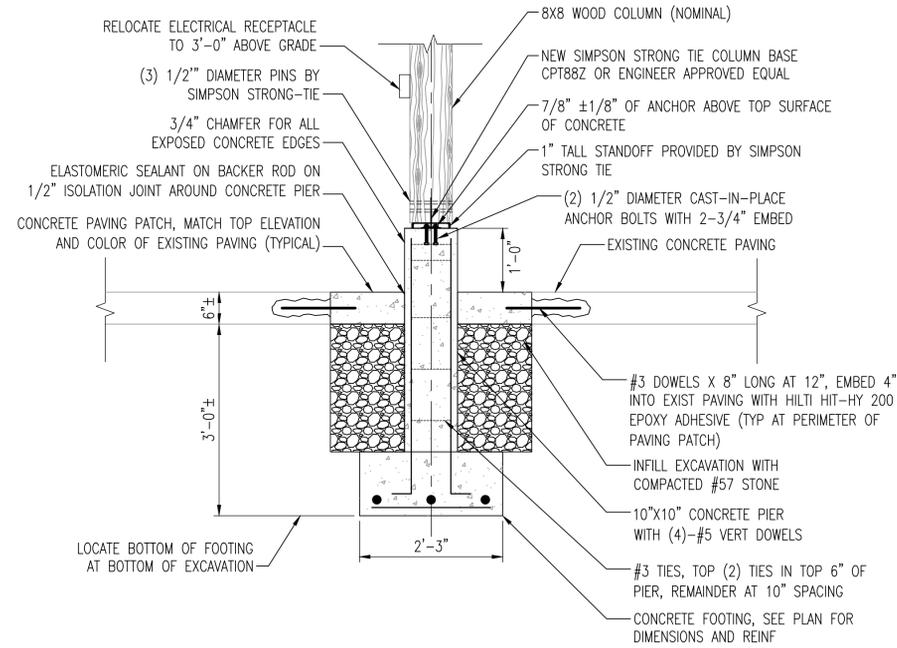


DEMOLITION SECTIONS AND DETAILS  
 DRAWING NO.  
**S5.01**

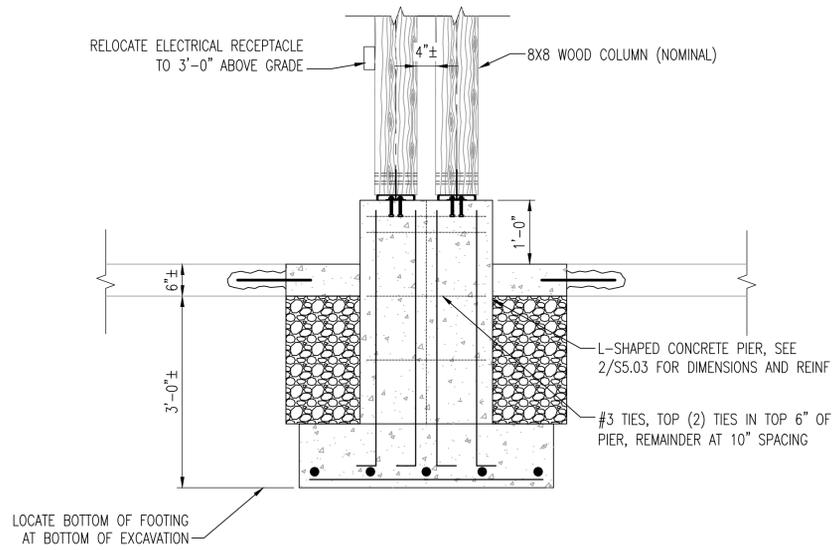
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DES: AMH	DRAWN: AMH	CHECK: BMB

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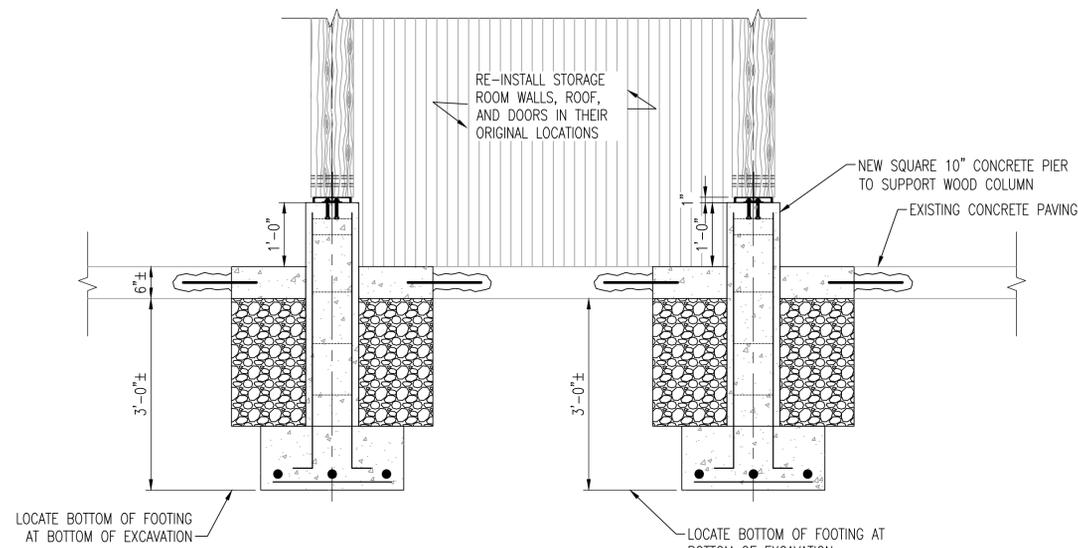
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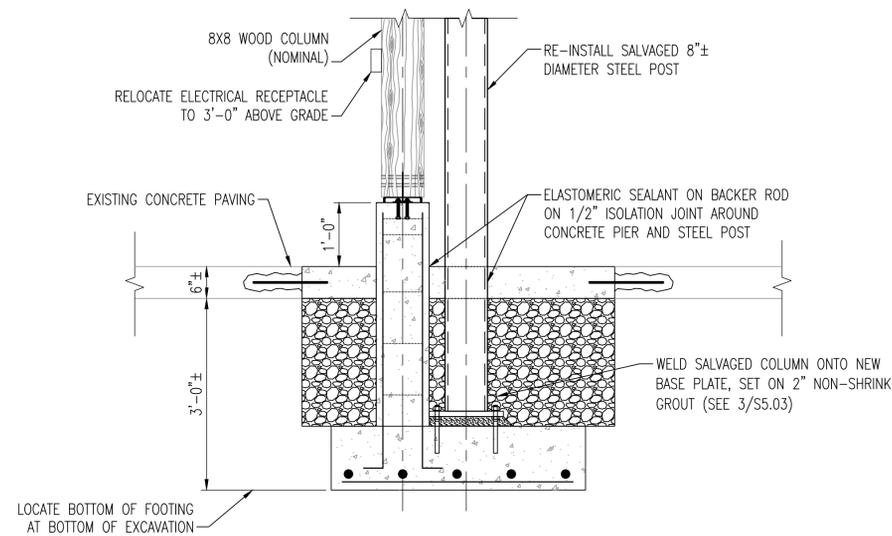
**1 SECTION**  
S5.02 SCALE: 3/4" = 1'-0"  
REF: S1.02



**2 SECTION**  
S5.02 SCALE: 3/4" = 1'-0"  
REF: S1.02



**3 SECTION**  
S5.02 SCALE: 3/4" = 1'-0"  
REF: S1.02



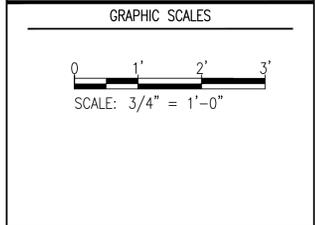
**4 SECTION**  
S5.02 SCALE: 3/4" = 1'-0"  
REF: S1.02

REVISIONS	

CLIENT INFORMATION  
**TOWN OF VIENNA**

TOWN GREEN AMPHITHEATER - COLUMN REPAIRS

KEY PLAN



SIGNATURE

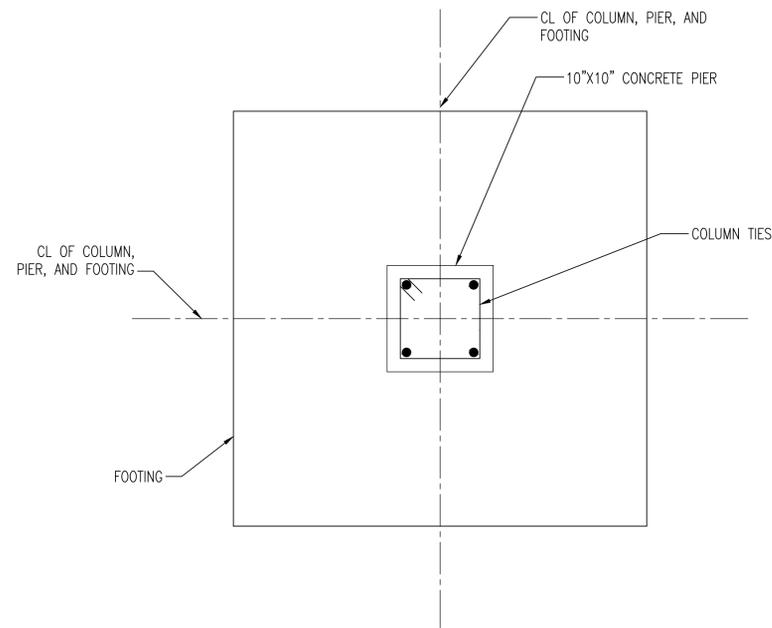


CONSTRUCTION SECTIONS AND DETAILS  
DRAWING NO.  
**S5.02**

SCALE: AS NOTED		
DATE: 09/30/2025	SHEET 6 OF 12	
DES: AMH	DRAWN: AMH	CHECK: BMB

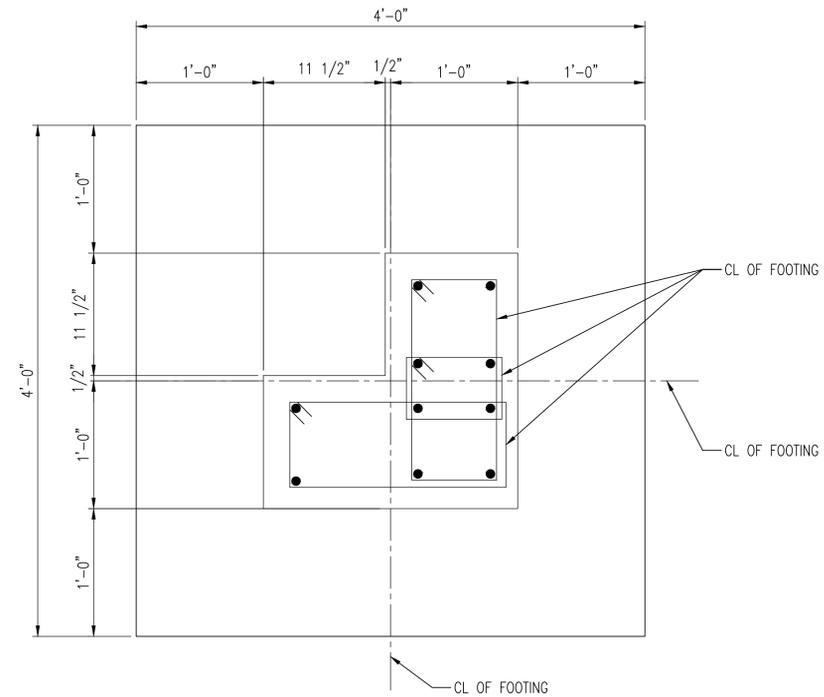
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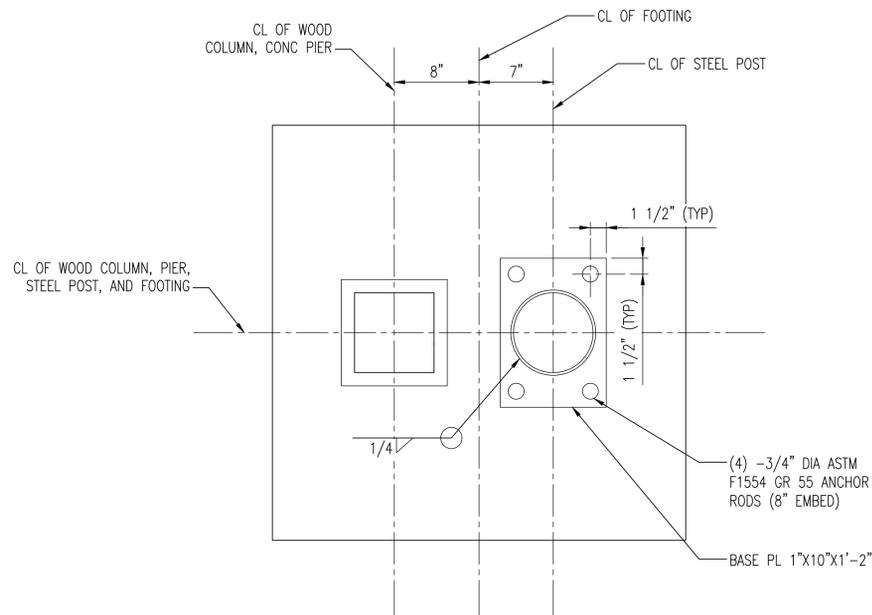
NOTE: WOOD COLUMN NOT SHOWN FOR CLARITY.

1 PLAN DETAIL  
S5.03 SCALE: 1 1/2" = 1' - 0"  
REF: S1.02



NOTE: WOOD COLUMN NOT SHOWN FOR CLARITY. CONTRACTOR MUST CONFIRM WOOD COLUMN LOCATIONS FIT ON PIER AS DRAWN.

2 PLAN DETAIL  
S5.03 SCALE: 1 1/2" = 1' - 0"  
REF: S1.02



NOTE: SEE 1/S5.03 FOR CONCRETE PIER REINFORCEMENT.

3 PLAN DETAIL  
S5.03 SCALE: 1 1/2" = 1' - 0"  
REF: S1.02

REVISIONS	

CLIENT INFORMATION  
**TOWN OF VIENNA**

TOWN GREEN AMPHITHEATER - COLUMN REPAIRS

KEY PLAN

GRAPHIC SCALES  
0 4" 8" 16"  
SCALE: 1 1/2" = 1' - 0"

SIGNATURE

**WRA**  
Whitman, Requardt & Associates, LLP  
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

CONSTRUCTION SECTIONS AND DETAILS  
DRAWING NO.  
**S5.03**

SCALE: 1 1/2" = 1' - 0"  
DATE: 09/30/2025 SHEET 7 OF 12  
DES: AMH DRAWN: AMH CHECK: BMB

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