

# 21-010 FAC TOLLGATE INN COVERED STRUCTURE - ENGINEERED PLAN SET

# OUTDOOR SEATING PATIO COVER

Tollgate Inn Restaurant and Saloon  
38100 US Highway 26  
Sandy, Oregon 97055

### OWNER

Ron Lesowski  
38100 US Highway 26  
Sandy, OR 97055

### ARCHITECT

Contact: Blane Skowhede  
Email: blane@keystone-architecture.com

### Structural Engineer

Associated Consultants, Inc.  
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### PROJECT DESCRIPTION

Steel framed post and beam system supporting an aluminum framed, acrylic paneled patio cover. Patio structure is fronted on the north by a heavy-timber facade. Project is located in the north courtyard of the building and is enclosed on three sides by the existing building. The fourth side (north) does not project beyond existing building facade.

### BUILDING, CODE, AND ZONING INFORMATION

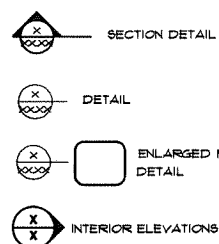
City of Sandy zoning: C-1  
Taxlot Number: 24E14AD  
Parcel No.: 00667629  
State ID: 24E14AD04800  
Site area: 29,063 sq. ft.

**Building Codes:**  
Oregon State Structural Specialty Code (latest edition)

**Building Information:**  
Building occupancy group: A-2 (OSSC 303.3).  
Patio cover occupancy group: B (616 sf.) (OSSC 303.1.2.2).  
(B occupancy is <10% of A-2 occupancy therefore Accessory Use) (OSSC 508.2.3)  
Separation between A-2 & B = 0 hours (OSSC 508.2.4)  
Occupant load under patio cover: 616 s.f. / 15 s.f.per person = 42.  
Fire sprinklers: Yes. One dry horizontal sidewall head from existing system pipe. Verify exact sprinkler head location at main entrance/exit with Fire Marshal.  
Allowable height: 60' (OSSC Tbl. 504.3)  
Allowable number stories: 2 (OSSC Tbl. 504.4)  
Type of construction: V-B, S1. Allowable area = 24,000 sf. (OSSC Tbl. 506.2)

**Energy Code:**  
NA - No changes to conditioned spaces.

### SYMBOLS



### SEPARATE PERMITS

Electrical

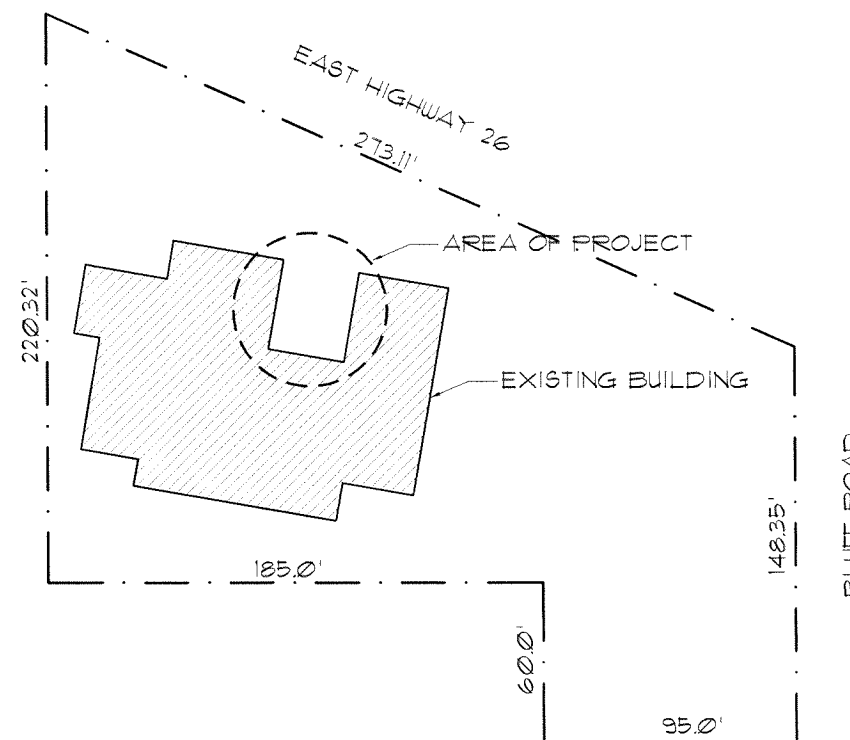
### DEFERRED SUBMITTALS

None

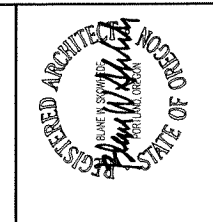
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① EXISTING SITE  
1/16" = 1'-0"



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**GENERAL CONSTRUCTION NOTES**

These plans were designed to conform to the latest edition of the Oregon Structural Specialty code adhering to the most stringent code requirements at the time the plans were drawn. In the even of a conflict between specifications contained within this set of plans and applicable codes or regulations in the locality, the more stringent provisions shall apply and be followed during construction.

The contractor shall examine the site and check existing conditions to the full extent of the scope of work. The contractor shall coordinate work with all trades and other contractors retained by the owner including the site contractor. The architect shall be notified in writing of any discrepancies or conflicts prior to the execution of work.

The contractor shall check and verify all dimensions, conditions and utility locations at the project site and be responsible for same, in case of discrepancies, conflicts, or doubts, the contractor shall notify the architect in writing in sufficient time to resolve the problem before proceeding with work in question. Do not scale the drawings for execution of work. Verify existing conditions and cross check all documents for complete scope of work.

The contractor is responsible for protection of existing adjacent areas during all phases of construction and shall repair, relocate, or replace as needed to complete such work at no cost to the owner.

Adjoining work finishes that are disrupted, defaced, or otherwise defective, shall be neatly repaired in good working order as approved by the owner. Existing areas that may have been worked on shall be thoroughly cleaned and in neat and acceptable condition.

Upon request, the contractor shall submit for inspection and approval of design, by owner, manufacturers' samples and/or cut of any finish materials to be installed in the project.

The contractor shall remedy any defects due to faulty materials or workmanship and pay for any same from the date of final certificate of completion and in accordance with the terms of any special guarantees provided in the contract.

The contractor shall obtain all permits and pay all applicable fees required by local laws, ordinances, and regulations.

**BUILDING QUALIFICATION AND CONSTRUCTION STANDARDS**

These plans are intended for use only by persons knowledgeable in and familiar with generally accepted methods, techniques, and industry standards for construction, and who are familiar with all applicable codes and other regulations that govern this type of structure. All construction is to be performed in accordance with these codes and standards.

**DIMENSIONS**

Written dimensions will take precedence over scaled dimensions.

**ERRORS AND OMISSIONS**

Every effort has been made to ensure these plans are accurate and drawn to reflect all current local standards for same and proper building practices. Any errors and/or omissions found are to be reported to the architect.

**CUTTING AND PATCHING**

Match existing materials. Provide cutting and patching work to properly complete the work of the project. Do not cut or patch in a manner that would result in a failure of the work to perform as intended.

Take care to install work at proper time to avoid extra effort. Bear expense of replacing work made necessary by error or tardiness.

**PRODUCT SUBSTITUTIONS**

Whenever a material, article, or piece of equipment is identified on the plans or project manual by reference to manufacturer's or vendor's name, catalog number, ect. it is intended to establish the function and standard of quality desired. Quote prices for materials specified. Contractors are urged to provide substitution sheet alternatives of equal quality to be considered.

All materials and equipment must be installed in accordance with manufacturer's installation guidelines.

**SITE NOTES**

The contractor shall provide a plan for approval by the owner for protection of driveways, fences, landscaping, trees, and shrubs adjacent to the building construction site prior to the execution of work.

All building materials stored at the construction site, and/or any area of the building are to be secured in a locked area. Access to such areas to be controlled by the owner and/or contractor.

All electrical power in the construction are shall be shut off after working hours.

All materials shall be stored in an orderly manner and protected from weather.

The contractor to provide at least one fire extinguisher at the area of work unless otherwise specified by the building official.

**PROJECT CLOSEOUT AND COMPLETION**

The contractor shall be responsible to provide the owner with an as-built copy of the plans which include all changes to the project not shown on the contract documents.

The contractor shall maintain and have on file all copies of permits, schedules, inspections, approvals, etc. as required by the building official and shall turn over copies of all documents to the owner at project closeout.

**Abbreviations:**

- AB = anchor bolt
- ADA = americans with disabilities act
- BLKG = blocking
- BLT = bolt
- BM = beam
- BOT = bottom
- CLG = ceiling
- CL = centerline
- CJ = control joint
- CT = ceramic tile
- CONC = concrete
- DTL = detail
- DIM = dimension
- DWG = drawing
- EQ = equal
- (E) = existing
- EL = expansion joint
- EXT = exterior
- FC = fiber cement (siding)
- FOB = face of beam
- FOF = face of finish
- FOS = face of stud
- FBI = fiberglass batt insulation
- FF = finish floor
- FRP = fiberglass reinforced plastic
- FEC = fire extinguisher cabinet
- FLR = floor
- FD = floor drain
- FTG = footing
- GALV = galvanized
- GA = gauge
- GB = gypsum board
- GYP BD = gypsum board
- HDR = header
- HOR = horizontal
- ID = inside diameter
- INSUL = insulation
- INT = interior
- JST = joist
- MAX = maximum
- MB = metal bolt
- MIN = minimum
- (N) = new
- NIC = not in contract
- OC = on center
- OCEW = on center each way
- OFCI = Owner Furnished Contractor Installed
- OFOI = Owner Furnished Owner Installed
- PL = plate
- PNT = paint
- PLYWD. = plywood
- PT = pressure treated
- REINF = reinforced
- (R) = remove
- R.S. = rough-sawn
- SAF = self-adhering, self-sealing, waterproofing tape/flashing
- SIM = similar
- SG = safety glazing
- SOG = slab on grade
- SS = stainless steel
- STL = steel
- T&B = top and bottom
- TYP = typical
- UNO = unless noted otherwise
- VERT = vertical
- VCT = vinyl composition tile
- WP = waterproofing
- WRB = weather resistant barrier
- W/ = with
- W/O = without
- WD = wood
- & = and
- @ = at

**Product Specifications**

Install all products per manufacturers' requirements. In the event of a conflict between construction documents and a manufacturer's instructions, manufacturer's take precedent.

- Cast stone veneer
1. Southern LedgeStone - Bucks County manufactured by Cultured Stone.
  2. Install in compliance with ASTM C1780. See Installation Guide and Detailing Options for Compliance with ASTM C1780 for Adhered Manufactured Stone Veneer 5th Edition, 5th Printing.

- Cast stone caps
1. Wall - Flagstone Sloped Wall cap, 16"x20", by Cultured Stone. Verify color with architect.
  2. Piers - Flagstone Pier Cap, 32"x32", by Cultured Stone. Verify color with architect.
  3. Install in compliance with ASTM C1780. See Installation Guide and Detailing Options for Compliance with ASTM C1780 for Adhered Manufactured Stone Veneer 5th Edition, 5th Printing.

- Metal lath
1. Corrosion resistant 2.5 lb./sq. yd. or heavier meeting ASTM C847. Attach with corrosion resistant screws or powder driven actuated fasteners. Attach to walls at 7" OCEW.

- Scratch coat mortar
1. Type N or S complying with ASTM C270, minimum thickness 1/2"; or for preblended, ASTM C1714, minimum nominal thickness 1/2".

- Setting bed mortar
1. Type S complying with ASTM C270 or ASTM C1714 or ANSI A118.1 mortar. ANSI A118.4 or ANSI A118.15 mortar.

- Pointing mortar
1. Type N or S complying with ASTM C270.

- Steel posts and beams finish
1. Two coats. Rustoleum Professional High Performance Enamel or approved.
  2. Method of application: Spray
  3. Finish: Satin black.

- Roof
1. Acrylic panels supported by aluminum structure. Manufacturer of patio cover is Acrylic Patio Covers Direct, www.acrylicpatiocovers.com. Aluminum structure engineered by manufacturer to meet local conditions. Acrylic panel color is "Cool Blue Heatstop". Aluminum framing color is "White".

- Wood framing
1. Rough sawn Western Red Cedar. See structural for Grade(s).

- Miscellaneous
1. Pressure treated lumber (if any): Submit samples of PT (pressure treated) wood to Owner for approval prior to placing order. Drawings call out pressure treated wood where required. It is Contractor's responsibility to determine the American Wood Protection Association recommended Use Category for each specific location. Not all locations require incised lumber.

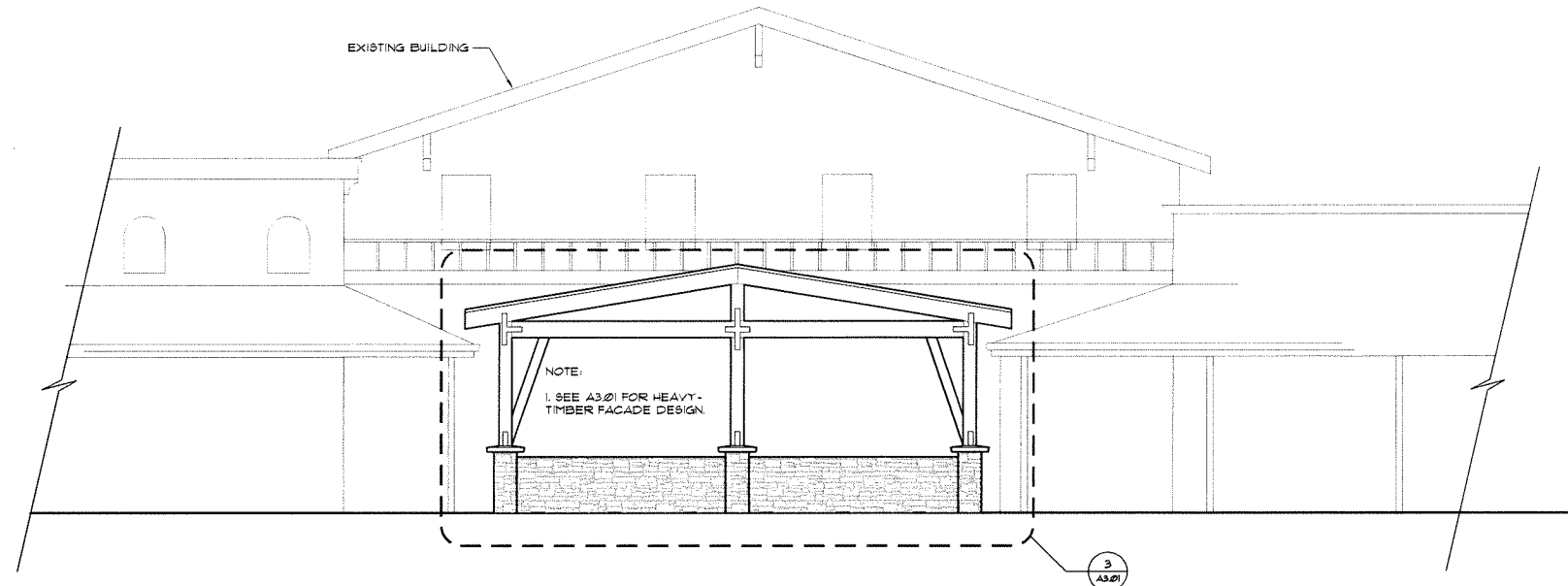
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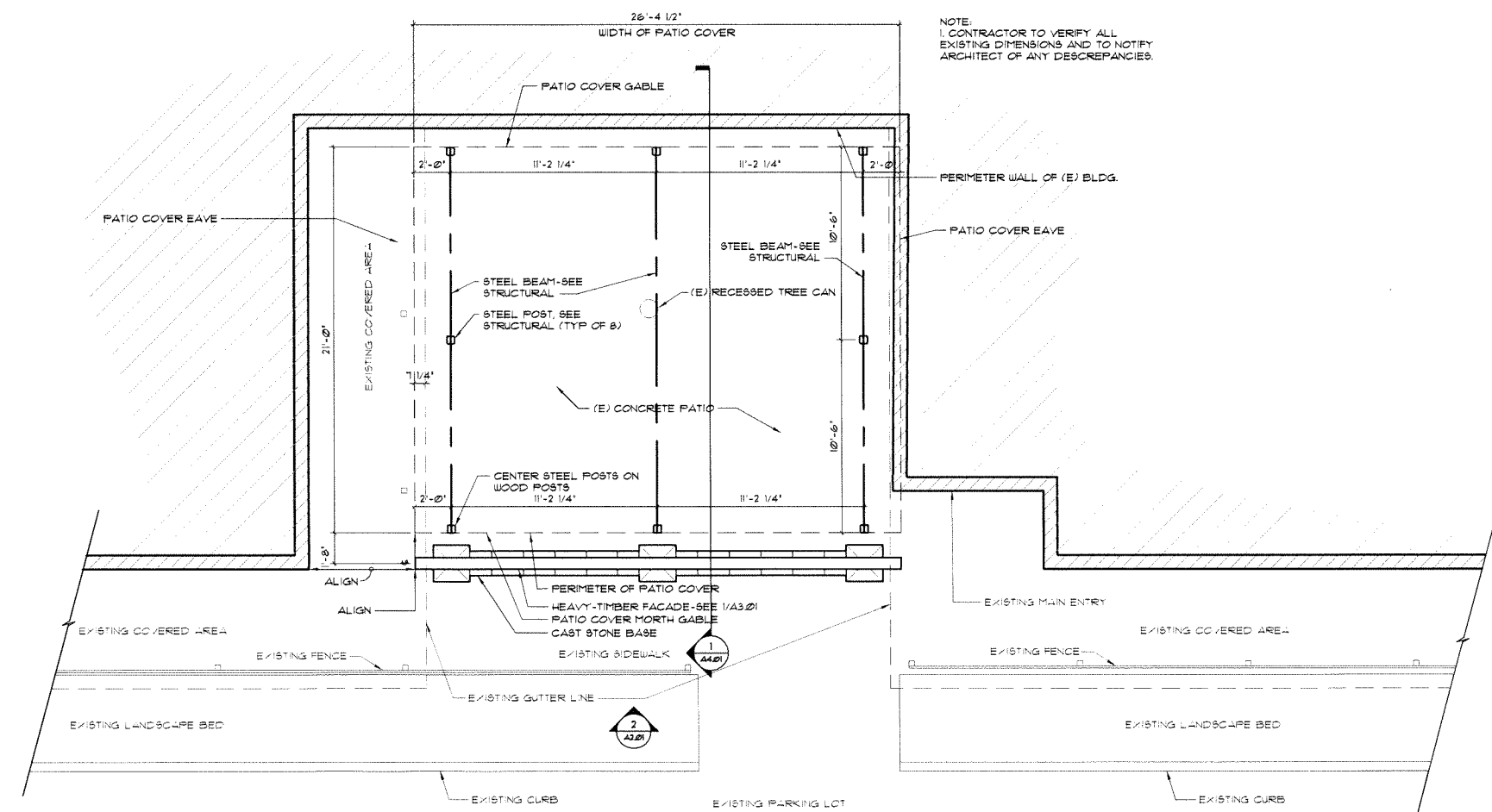
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**② COURTYARD-PATIO NORTH ELEVATION**  
1/4" = 1'-0"



**① COURTYARD-PATIO PLAN**  
1/4" = 1'-0"



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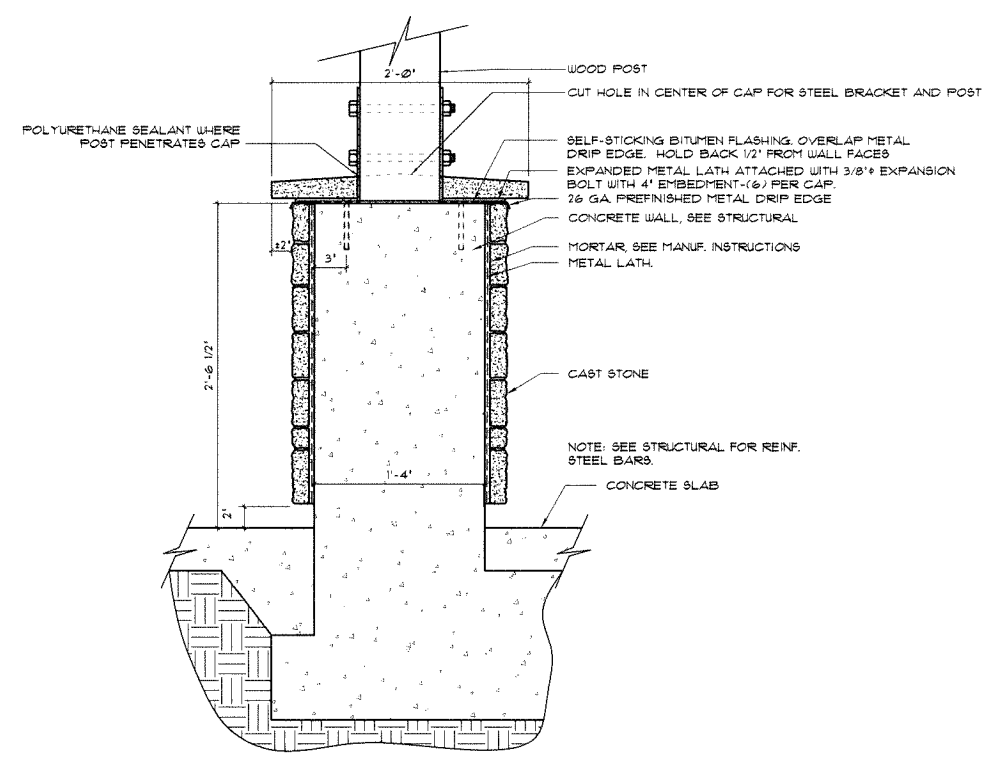
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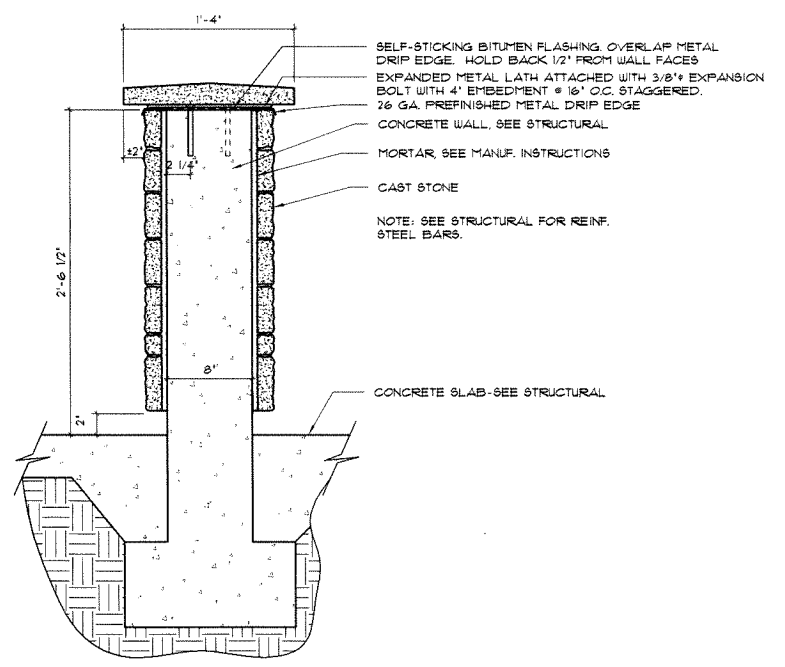
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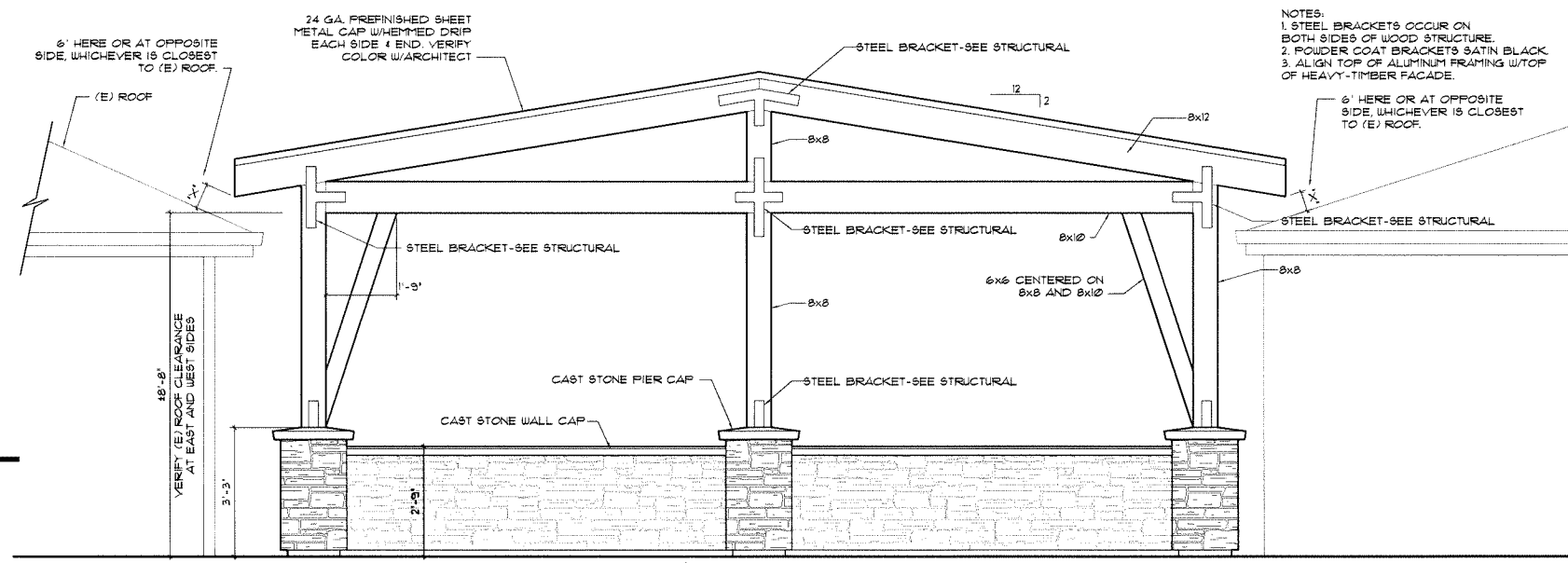
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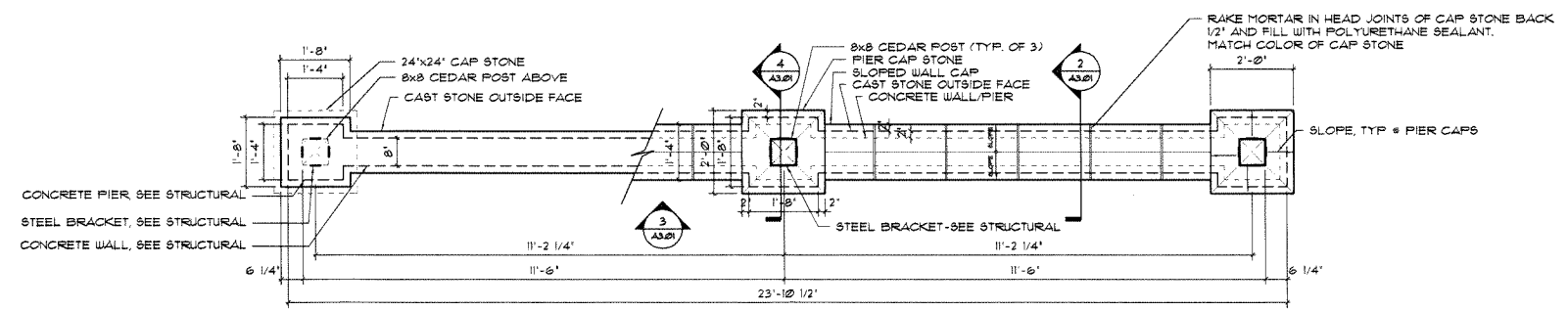
4 WALL SECTION  
1/2" = 1'-0"



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



3 HEAVY-TIMBER FACADE ELEVATION  
1/2" = 1'-0"



1 HEAVY-TIMBER FACADE PLAN  
1/2" = 1'-0"

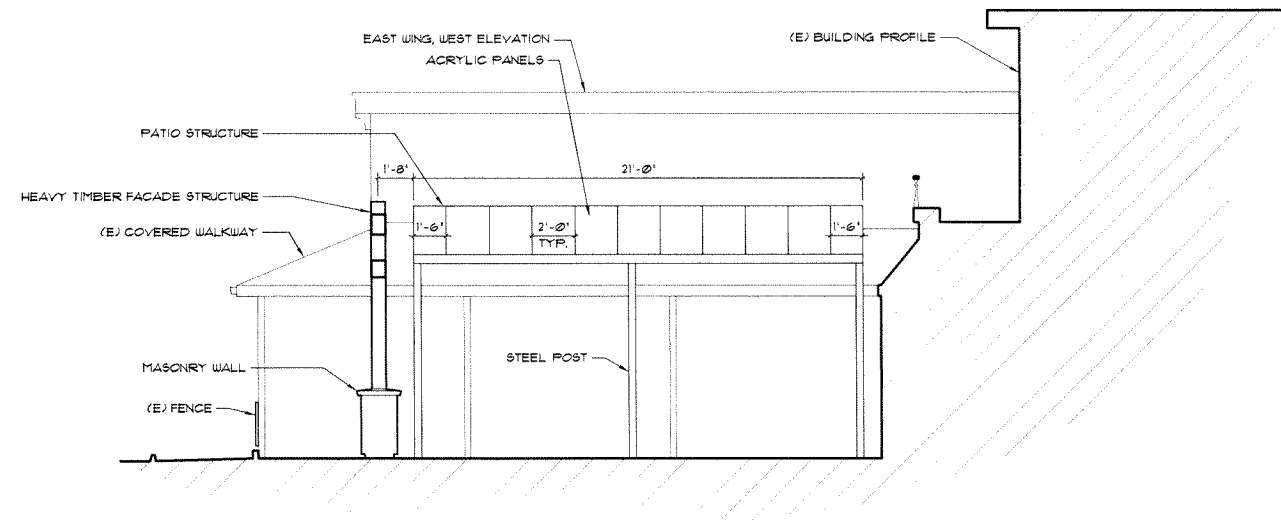


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① STRUCTURE SECTION  
1/2" = 1'-0"

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DESIGN STANDARDS	
BUILDING CODE	2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
DESIGN	
ROOF LIVE	20 psf (SEE SNOW CRITERIA BELOW)
SNOW	
DESIGN ROOF SNOW LOAD	36 psf
SNOW DRAFT	PER IRC AS SHOWN ON PLANS
GROUND SNOW LOAD	P <sub>g</sub> = 42 psf
SNOW EXPOSURE FACTOR	C <sub>s</sub> = 1.0
SNOW IMPORTANCE FACTOR	I <sub>s</sub> = 1.0
THERMAL FACTOR	C <sub>t</sub> = 1.2
GEOTECHNICAL	
ALLOWABLE SOIL PRESSURE	1500 psf (ASSUMED)
WIND	
RISK CATEGORY	II
WIND DESIGN SPEED	V <sub>w</sub> = 120 mph ULTIMATE (3-SECOND GUST)
EXPOSURE CATEGORY	B
GUST / INTERNAL PRESSURE	G <sub>cp</sub> = 0
SEISMIC	
RISK CATEGORY	II
DESIGN CATEGORY	D
SITE CLASS	D
IMPORTANCE FACTOR	I <sub>p</sub> = 1.0
ASCE SPECTRAL ACCEL	S <sub>s</sub> = 0.715g S <sub>1</sub> = 0.487g S <sub>2</sub> = 0.487g
SITE COEFFICIENT	F <sub>a</sub> = 1.25 F <sub>v</sub> = 1.593
DESIGN SPECTRAL ACCEL	S <sub>ds</sub> = 0.585g S <sub>d1</sub> = NULL
ANALYSIS PROCEDURE	EQUVALENT LATERAL FORCE PER ASCE 7-18 SECTION 12.8 (E/W) DIRECTION (N/S) DIRECTION
LATERAL FORCE RESISTING SYSTEM (LFRS)	ORDINARY STEEL MOMENT FRAME WOOD CANTILEVER COLUMN
RESPONSE MODIFICATION FACTOR	R = 3.5, R <sub>s</sub> = 1.5
SEISMIC RESPONSE COEFFICIENT	C <sub>s</sub> = 0.187 C <sub>v</sub> = 0.187, 0.39
SEISMIC BASE SHEAR	1.5 kips (ULT), 0.6 kips (ULT)
REDUNDANCY FACTOR	η <sub>p</sub> = 1.3 η <sub>s</sub> = 1.3, 1.0

**GENERAL:**

- SPECIFICATIONS AND CODES REFERENCED IN THESE NOTES ARE THE VERSIONS MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY.
- VERIFY DIMENSIONS AND CONDITIONS WITH THE ARCHITECTURAL DRAWINGS. VERIFY DIMENSIONS AND ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE PRIOR TO FABRICATION OF MATERIALS.
- ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THESE GENERAL NOTES, AND THE SITE CONDITIONS SHALL BE REPORTED TO THE REGISTERED DESIGN PROFESSIONAL, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY, BUT PRIOR TO CORRECTION SHALL BE AT CONTRACTOR'S RISK.
- THIS PLAN DOES NOT PROVIDE COMPLETE FLASHING AND WATERPROOFING DETAILS. THE ENGINEER DO NOT REPRESENT HIMSELF/SELVES TO BE EXPERTS IN THE FIELD OF WATERPROOFING. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND / OR THE WATER PROOFING SUBCONTRACTOR TO PROVIDE THE NECESSARY STANDARD OF CARE IN WORKMANSHIP AND MATERIALS TO PROVIDE COMPLETE WATER PROOFING SYSTEM. DRAINAGE SHALL NOT BE ALLOWED TO RUN BEHIND ANY FASCIA BOARDS OR ONTO THE EXTERIOR FINISH OF THE STRUCTURE.
- SUBSTITUTIONS ARE NOT ALLOWED WITHOUT DOCUMENTATION STATING IT MEETS OR EXCEEDS VALUES OF THE DESIGNATED ELEMENT. ANY SUBSTITUTIONS DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD (EOR) FOR APPROVAL PRIOR TO INSULATION.
- FOR FEATURES OF CONSTRUCTION NOT FULLY SHOWN, PROVIDE THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
- APPLY, PLACE, ERECT OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- ADEQUATELY BRACE STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, LATERAL EARTH AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL-FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED.

**STRUCTURAL FILL / BACKFILL:**

- STRUCTURAL FILL MATERIAL
  - SAND AND GRAVEL MIXTURE OR CRUSHED ROCK.
  - WELL GRADED FROM COARSE-TO-FINE WITH LESS THAN 10% BY WEIGHT OF THE MINUS 20# FRACTION PASSING THE NO. 200 SIEVE.
  - FREE OF ORGANICS, RUBBISH, CLAY BALLS AND ROCKS LARGER THAN 4".
- PLACE STRUCTURAL FILL IN LOOSE LIFTS, MAXIMUM OF 8" THICKNESS.
- COMPACT STRUCTURAL FILL TO A MINIMUM DENSITY OF 95% OF MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D 1557.
- VERIFY ADEQUACY OF STRUCTURAL FILL COMPACTION WITH RANDOM FIELD DENSITY TESTS.

**FOUNDATION:**

- FOUNDATION ELEVATIONS SHOWN ARE TO TOP OF FOOTINGS.
- PLACE FOOTINGS ON FIRM, UNDISTURBED ORIGINAL SOIL, OR ON STRUCTURAL FILL. SEE 'STRUCTURAL FILL OR BACK-FILL' NOTES FOR STRUCTURAL FILL INFORMATION.
- LOCATE BOTTOM OF FOOTINGS AT A MINIMUM OF 1'-6" BELOW FINAL GRADE.
- PRIOR TO PLACEMENT OF CONCRETE, REMOVE ALL DISTURBED SOIL FROM FOOTING EXCAVATION TO NEAT LINES.
- STEP BOTTOM OF FOOTINGS FROM ELEVATION TO ELEVATION AT A RATIO OF 1 VERTICAL TO 2 HORIZONTAL, WITH A MAXIMUM VERTICAL STEP OF 2'-0".

**CONCRETE REINFORCEMENT STEEL:**

- REINFORCING STEEL (TYPICAL, U.N.O.): ASTM A 615, GRADE 60
- WELDED REINFORCEMENT: ASTM A 706, GRADE 60
- WELDED CONNECTIONS: AWS D1.4
- DETAIL, FABRICATE AND PLACE REINFORCING ACCORDING TO ACI 318, 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT'.
- TYPICAL REINFORCING (MINIMUM, U.N.O. ON DRAWINGS)
  - CORNERS AND INTERSECTIONS OF WALLS, FOUNDATIONS, AND PRE-CAST PANEL CORNERS
    - CORNER BARS EQUAL IN SIZE AND NUMBER TO HORIZONTAL REINFORCING.
    - LEG LENGTH 48 BAR DIAMETER (2'-0" MINIMUM).
- DO NOT FIELD BEND, DISPLACE, WELD, HEAT OR CUT REINFORCING UNLESS INDICATED ON THE DRAWINGS, OR APPROVED BY STRUCTURAL ENGINEER OF RECORD.
- REINFORCING LAP SPLICES: CONFORM WITH ACI 318 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE'.

REINFORCING STEEL CONCRETE COVER	
CONCRETE CAST AGAINST / EXPOSED TO EARTH	3"
WALLS INTERIOR FACE	½" (#11 BARS AND SMALLER)
WALLS EXPOSED TO EARTH OR WEATHER	1½" (#5 BARS AND SMALLER)
STRUCTURAL STEEL BEAMS AND COLUMNS	1½"
CONCRETE TOP EXPOSED TO WEATHER	1½"
SLABS INTERIOR TOP & BOTTOM	½" (#11 BARS AND SMALLER)
	1½" (#14 BARS AND LARGER)

**CAST-IN-PLACE CONCRETE:**

- PROVIDE CONCRETE MATERIALS, FORM WORK, MIXING, PLACING AND CURING ACCORDING TO ACI 301, 'STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE'.
- SAMPLING AND TESTING OF CONCRETE
  - MEASURE COMPRESSIVE STRENGTH ACCORDING TO 28 DAY LABORATORY CURED CYLINDERS.
  - SAMPLE AND TEST CONCRETE ACCORDING TO APPLICABLE ASTM SPECIFICATIONS.
  - PROVISIONS OF ACI 318, CHAPTER 26, TO GOVERN ACCEPTANCE OF COMPRESSIVE STRENGTH TEST RESULTS.
  - TEST A MINIMUM OF 3 CONCRETE TEST CYLINDERS FOR EACH 100 CU. YARDS, OR EACH DAY OF POUR, FOR EACH CONCRETE STRENGTH. TEST (1) CYLINDER AT 7 DAYS AND (2) CYLINDERS AT 28 DAYS.
- DO NOT PLACE CONCRETE ON FROZEN GROUND.
- CHAMFER EXPOSED CORNERS 3/4", UNLESS NOTED OTHERWISE.

**CONCRETE MIX DESIGN TABLE**

MIX	USE	f <sub>c</sub> (psi)	MAX/W/C RATIO	AIR %	FLY ASH (Repl) (Max)	TARGET SLUMP	CONCRETE AGG. SIZE	REMARKS
A	FOOTING / SLAB	3,000	0.52	-	80	4	1½"	
B	WALLS	3,000	0.48	-	80	4	1½"	

**MIX DESIGN NOTES**

- SEE 'CAST-IN-PLACE CONCRETE' SECTION OF STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
- PROPORTION CONCRETE ACCORDING TO ACI 318, 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE'.
- PROVIDE ASTM C150, TYPE I PORTLAND CEMENT.
- SUBMIT MIX DESIGNS, WITH COMPLETE STATISTICAL BACKUP, FOR REVIEW.
- PROVIDE TARGET SLUMP AT POINT OF PLACEMENT, +1" -1".
- MIX SHALL BE APPOINTMENT BASED ON MINIMUM AMOUNT OF MIX WATER. SLUMP MODIFICATIONS REQUIRED FOR PLACEMENT IS TO BE ACCOMPLISHED BY THE USE OF ADDITIVES. DO NOT ADD MIX WATER OUTSIDE OF BATCHING PLANT.

**FRAMING LUMBER:**

- LUMBER SPECIES: WESTERN CEDAR, GRADE LUMBER ACCORDING TO RULES OF WEST COAST LUMBER INSPECTION BUREAU (WCLIB).
- LUMBER GRADES, NO. 1 (UNLESS NOTED OTHERWISE).
- MAXIMUM MOISTURE CONTENT: 19% AT 3X OR LESS (LEAST DIMENSIONS) MEMBERS.
- ALL FASTENERS (INCLUDING NAILS) DRIVEN INTO PRESSURE TREATED WOOD SHALL BE CORROSION RESISTANT IN ACCORDANCE WITH IRC.

**WOOD CONNECTIONS:**

- FRAMING CONNECTORS: SIMPSON STRONG-TIE OR APPROVED (HOT-DIPPED GALVANIZED OR STAINLESS STEEL). FILL ALL NAIL SCREWS, AND BOLT HOLES AS SPECIFIED BY THE CONNECTOR MANUFACTURER, UNLESS NOTED OTHERWISE. HANGERS ARE TO DEVELOP BENDING STRENGTH OF MEMBERS, U.N.O. ON DRAWINGS.
- ALL FASTENERS ARE TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
- ANCHOR BOLTS: ASTM A307 OR ASTM A 36.
- PROVIDE HOT DIPPED GALVANIZED FINISH ON ANCHOR BOLTS, EXPANSION ANCHORS OR THREADED RODS USED TO CONNECT PRESSURE TREATED LUMBER TO CONCRETE OR MASONRY.
- PROVIDE STANDARD PLATE WASHERS UNDER HEADS OR NUTS OF BOLTS BEARING ON WOOD.

**NON-SHRINK GROUT:**

- CONFORM WITH ASTM C 1107 AND C.R.D. 821, CCRRPS OF ENGINEERS 'SPECIFICATIONS FOR NON-SHRINK GROUT'.
- SPECIFIED 28 DAY COMPRESSIVE STRENGTH 5000 PSI.
- DO NOT PRE-GROUT BASE PLATES.

**STRUCTURAL STEEL:**

- FABRICATE, ERECT, IDENTIFY AND PAINT STRUCTURAL STEEL ACCORDING TO AISC SPECIFICATIONS.
- MATERIAL
  - WIDE FLANGE SHAPES: ASTM A 992, GRADE 50, CONFORMING WITH AISC TECHNICAL BULLETIN 3.
  - ANGLES, TEES, CHANNELS AND PLATE: ASTM A 36.
  - STRUCTURAL TUBES: ASTM A 500, GRADE B, F<sub>y</sub> = 46 KSI.
  - STRUCTURAL PIPE: ASTM A 53, GRADE B, TYPE E OR TYPE S, F<sub>y</sub> = 35 KSI.
- GALVANIZED BOLTS (ALL BOLTS EXPOSED TO ELEMENTS OR WHERE SHOWN ON DRAWINGS): HOT-DIPPED GALVANIZED ACCORDING TO ASTM A 153, CLASS C.
- CONNECT MOMENT FRAME MEMBERS WITH HIGH-STRENGTH BOLTS
  - BEARING TYPE CONNECTIONS (TYPE N)
    - PROVIDE ASTM A 325, TYPE N BOLTS AT ALL LOCATIONS NOT NOTED ON DRAWINGS AS TYPE 3C.
    - PROVIDE HARDENED WASHERS CONFORMING TO ASTM F 436 UNDER ELEMENTS TO BE TIGHTENED. PROVIDE NUTS CONFORMING TO ASTM A 563.
    - TIGHTEN TYPE N BEARING BOLTS TO A SNUG TIGHT CONDITION.
  - INSTALL HIGH-STRENGTH BOLTS ACCORDING TO ASTM STANDARDS.
  - DO NOT WELD TO HIGH-STRENGTH BOLTS.
- ANCHOR BOLTS:
  - ASTM A 307, GRADE A, TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS.
  - PROVIDE WITH STANDARD WASHERS AND NUTS.
  - GALVANIZE BOLTS (WHERE NOTED ON DRAWINGS) ACCORDING TO ASTM A 153, CLASS C. OVER-TAP NUTS TO CLASS 2A FIT BEFORE GALVANIZING, ACCORDING TO ASTM A 563.
- PROVIDE BEVELED WASHERS AT BOLT HEADS OR NUTS BEARING ON SLOPING SURFACES.
  - WELDINGS
    - CONFORM WITH AWS SPECIFICATIONS.
    - WELDERS TO BE QUALIFIED UNDER AWS SPECIFICATIONS.
    - WELDS MATERIAL: 70 KSI FILLER METAL, U.N.O. PROVIDE LOW-HYDROGEN FILLER METALS AT MOMENT FRAME WELDS.
    - WELDING OF REINFORCING STEEL: AS NOTED IN 'CONCRETE REINFORCING STEEL' PORTION OF STRUCTURAL NOTES.
  - WELDS TO GALVANIZED STEEL AND AREAS DAMAGED BY WELDING, FLAME CUTTING OR HANDLING: CLEAN, DRY AND REMOVE OIL, GREASE, SALT AND CORROSIVE PRODUCTS. APPLY ORGANIC COLD GALVANIZING COMPOUND WITH A MINIMUM OF 84% ZINC DUST IN THE DRY FILM. APPLY IN MULTIPLE COATS TO ACHIEVE AN 8 MIL THICKNESS.
- CONTRACTOR TO DESIGN AND PROVIDE ERECTION AIDS (BOLTS, CLIPS, SHIMS, SEATS, ETC.) REQUIRED TO FACILITATE CONSTRUCTION.
- SHOP FINISH
  - CLEAN ALL SURFACES OF RUST, SCALE, GREASE AND ALL DAMAGING FOREIGN SUBSTANCE.
  - APPLY ONE COAT OF PRIMER EVENLY AND THOROUGHLY.
  - SURFACES IN CONTACT WITH CONCRETE OR CONCRETE ENCASED MEMBERS SHALL BE THOROUGHLY HOT DIPPED GALVANIZED.

**SPECIAL INSPECTION AND TESTING PROGRAM:**

- PROVIDE SPECIAL INSPECTION, SPECIAL TESTING, REPORTING AND COMPLIANCE PROCEDURES ACCORDING TO IBC CHAPTER 17.
- SEE 'SPECIAL INSPECTION SCHEDULE' FOR WORK REQUIRING SPECIAL INSPECTION.
- SEE 'SPECIAL TESTING SCHEDULE' FOR WORK REQUIRING SPECIAL TESTING.
- SPECIAL INSPECTOR QUALIFICATIONS: DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION IN QUESTION. THE SPECIAL INSPECTOR SHALL BE CERTIFIED BY WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO), PRIOR TO THE BEGINNING OF CONSTRUCTION. REVIEW THE SPECIAL INSPECTION REQUIREMENTS WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, CONTRACTOR AND SPECIAL INSPECTORS.
- DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:
  - OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, TO THE ENGINEER AND TO THE BUILDING OFFICIAL.
  - FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, AND CONTRACTOR IN A TIMELY MANNER.
  - SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS.
- DUTIES OF THE CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:
  - NOTIFY SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE INSPECTION IS REQUIRED.
  - MAINTAIN ACCESS TO WORK REQUIRING SPECIAL INSPECTION UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.
  - PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT DRAWINGS AND SPECIFICATIONS AT THE JOB SITE.
  - MAINTAIN JOB-SITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.

**SPECIAL INSPECTION PROGRAM**

TYPE OF WORK	INSPECTION	COMMENTS	REFERENCE STANDARDS	IBC REFERENCE
CONCRETE				
REINFORCING PLACEMENT	P		ACI 318 CH 20, 25.2-25.3, 26.6.1-26.6.3	
CAST IN PLACE BOLTS & ANCHORS	C		ACI 318 17.8.2	
MONITORING USE OF REQUIRED DESIGN MIX	P	SEE NOTE 6	ACI 318 CH 19, 26.4.3, 26.4.4	1904.1, 1904.2
SAMPLING FRESH CONCRETE, TAKING OF TEST SPECIMENS	C		ASTM C 172, ASTM C 31 - ACI 318 26.4, 26.12	
CONCRETE PLACEMENT	C		ACI 318 26.5	
MAINTENANCE OF SPECIFIED CURING TECHNIQUES	P		ACI 318: 26.5.3-26.5.5	
STRUCTURAL STEEL MEMBERS				
INSPECTION OF AS-BUILT FRAME JOINTS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS	P		AISC LRFD, SECTION A3.5	1704.3.2
FIELD ERECTION	P			
FABRICATION	P	SEE NOTE 4		
HS BOLT MATERIAL VERIFICATION	P		AISC 360 N5.6	
STRUCTURAL WELDING				
WELD MATERIAL VERIFICATION	P			
SINGLE PASS FILLET WELDS < 5/16"	P		AISC 360 N5.4 N5.5, AISC 341 J6 AWS D11	1705.2

- C = CONTINUOUS
- P = PERIODIC
- INSPECTIONS SHOWN TO BE REQUIRED SHALL BE ACCOMPLISHED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGN COMPONENTS.
- CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION (IBC 1702.1). PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
- SPECIAL INSPECTION NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER IBC SECTION 1704.2.
- ALL WELDS SHALL BE VISUALLY INSPECTED.
- VERIFY DEVIATION FROM MIX DESIGN BY SITE ADDITIONS OF WATER OR OTHER ADDITIVES.
- CONTINUOUS INSPECTION IS REQUIRED AS FOLLOWS
  - WHEN WELDING IS NOT DONE IN AN APPROVED FABRICATION SHOP PER IBC 1704.2.
  - WHERE SINGLE PASS FILLET WELDS EXCEED 5/16" IN SIZE.
  - AT ALL PARTIAL OR COMPLETE JOINT PENETRATION WELDS.
- LFRS: LATERAL FORCE RESISTING SYSTEM.
- HIGH STRENGTH BOLTS REQUIRING PRETENSIONING THAT ARE INSTALLED USING THE TURN-OF-NUT METHOD WITH MATCH MARKING TECHNIQUES, THE DIRECT TENSION INDICATOR METHOD, OR THE ALTERNATE DESIGN FASTENING (TWIST-OFF BOLT) METHOD MAY BE INSPECTED ON A PERIODIC BASIS.

**1 SPECIAL INSPECTIONS SCHEDULE**

&	AND	FF	FAR FACE	PAF	POWDER ACTUATED
@	AT	FND	FOUNDATION	PCP	PASTER
Ø	DIAMETER	FIN	FINISH	PCF	PRE-CAST
(E)	EXISTING	FL	FLOOR	PPC	PERPENDICULAR
(N)	NEW	FO	FACE OF	PL	PLATE
#	NUMBER	FOC	FACE OF CONCRETE	PLYW	PLYWOOD
		FOS	FACE OF STUDS	FR	PAIR
AA	ADHESIVE ANCHOR	FRM	FRAMING	FT	FART
AB	ANCHOR BOLT	FS	FAR SIDE	PART	PARTITION
ADDL	ADDITIONAL	ft	FOOT AND FEET		
ADJ	ADJACENT	FTG	FOOTING	RRAD	RADIUS
AFF	ABOVE FINISH FLOOR	REF	REFERENCE	REF	REFERENCE
ALT	ALTERNATE	REFN	REINFORCED	RECD	REQUIRED
APPROX	APPROXIMATE	GALV	GALVANIZED	REV	REVISE OR REVISION
ARCH	ARCHITECTURAL	GL	GLUE-LAMINATED	RO	ROUGH OPENING
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS	GRND	GROUND		
		GR	GRADE		
AWG	AMERICAN WIRE GAUGE	GWB	GYPSUM WALL BOARD	SAD	SEE ARCH. DOCUMENTS
				SCHED	SCHEDULE
BLD'G	BUILDING	HD	HOLDDOWN	SECT	SECTION
BLKG	BLOCKING	HGG	HOT-DIPPED	SHT	SHEET OR SHEATHING
BM	BEAM	HZN	HORIZONTAL	SIM	SIMILAR
BK	BOUNDARY NAILING	HDR	HEADER	SL	SLOPE
B.A.	BOTTOM OF	HGR	HANGER	SPEC	SPECIFICATION
BOT	BOTTOM	HK	HOOK	SOG	SLAB ON GRADE
BRG	BEARING	HORIZ	HORIZONTAL	SO	SQUARE
BTWN	BETWEEN	HP	HIGH POINT	STAG	STAGGER OR
		HT	HEADED STUD		HEADED STUD
CJ	CONTR'L JOINT	HSS	HOLLOW STRUCTURAL	SS	STAINLESS STEEL
CL	CENTERLINE	STL	STEEL	STD	STANDARD
CLR	CLEAR(ANCE)	HT	HEIGHT	STIFF	STIFFENER
COL	COLUMN	HVAC	HEATING, VENTILATION & AIR CONDITIONING	STR	STRUT(S)
CONC	CONCRETE	STL	STEEL	STRUC	STRUCTURAL
CONN	CONNECTION	ID	INSIDE DIAMETER	SUBST	SUBSTITUTE
CONST	CONSTRUCTION	INSUL	INSULATION	SUSP	SUSPENDED
CONT	CONTINUOUS	INT	INTERIOR	SYM	SYMMETRICAL
CONTR' (OR)	CONTRACTOR	LD	DEVELOPMENT LENGTH	T&B	TOP AND BOTTOM
CSK	COUNTERSINK	LLH	LONG LEG HORIZONTAL	T&G	TONGUE AND GROOVE
CNTR	CENTER	LLV	LONG LEG VERTICAL	THK	THICK
		LOC	LOCATION	THRU	THROUGH
DBL	DOUBLE	LP	LOW POINT	TA	TOP OF
DK	DECK or DECKING	LT	LIGHT	TYT	TYPICAL
DEMO	DEMOLITION			THRD'D	THREADED ROD
DTL	DETAIL	MAX	MAXIMUM		
DF	DOUGLAS FIR	MB	MACHINE BOLT	UNO	UNLESS NOTED OTHERWISE
DIA	DIAMETER	MEMB	MEMBER		
DIAG	DIAGONAL	MECH	MECHANICAL		
DIM	DIMENSION	MEZZ	MEZZANINE	VERT	VERTICAL
DIST	DISTANCE	MTL	METAL		
DN	DOWN	MANUF	MANUFACTURER	w	WITH
DO	DITTO	MNI	MINIMUM	w/o	WITHOUT
DWG	DRAWING	MISC	MISCELLANEOUS	WD	WOOD
		MTD	MOUNTED	WF	WIDE FLANGE
EA	EACH			WP	WORK POINT or WATER
EJ	EACH FACE	N	NORTH		PROOF
EL	EXPANSION JOINT	NE	NEAR FACE		WEIGHT
EN	ELEVATION	NIC	NOT IN CONTRACT	WTF	WELDED WIRE FABRIC
EMB	EMBEDMENT	NS	NEAR SIDE		
EN	EDGE NAILING	NTS	NOT TO SCALE	x	BY (DIMS)
ENGR	ENGINEER	NO	NUMBER		
EQ	EQUAL	NOM	NOMINAL		
EQUIP	EQUIPMENT				
ES	EACH SIDE				
EW	EACH WAY	oc	ON CENTER		
EXCAV	EXCAVATE or EXCAVATION	OD	OUTSIDE DIAMETER		
		OH	OVERHEAD		
EXP	EXPANSION	OPNG	OPENING		
EXT	EXTERIOR	OPP	OPPOSITE		

**ABBREVIATIONS**

**LIST OF SUBMITTALS**

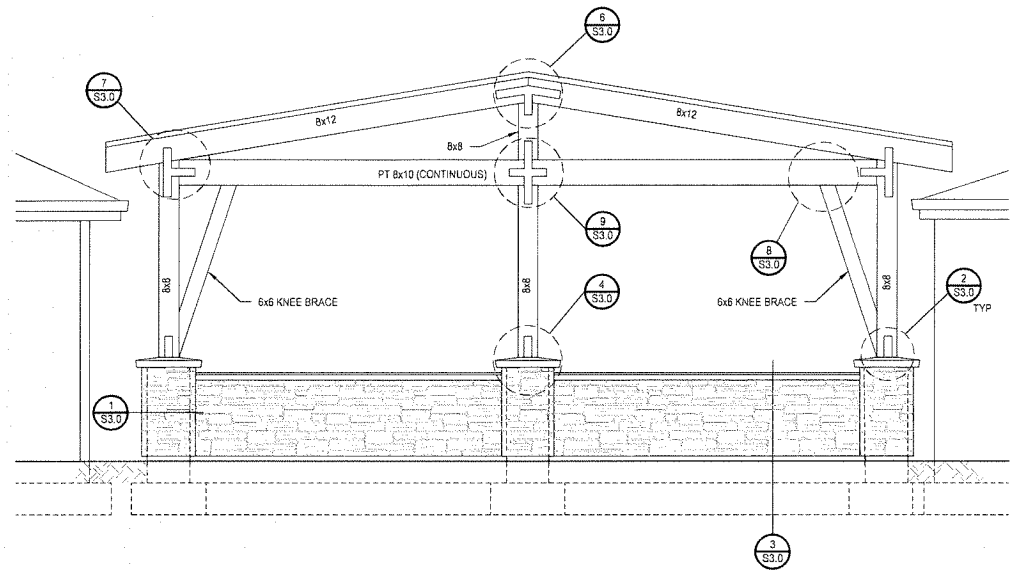
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2	STRUCTURAL STEEL	X		
4	PATIO COVER SYSTEM		X	

**NOTES**

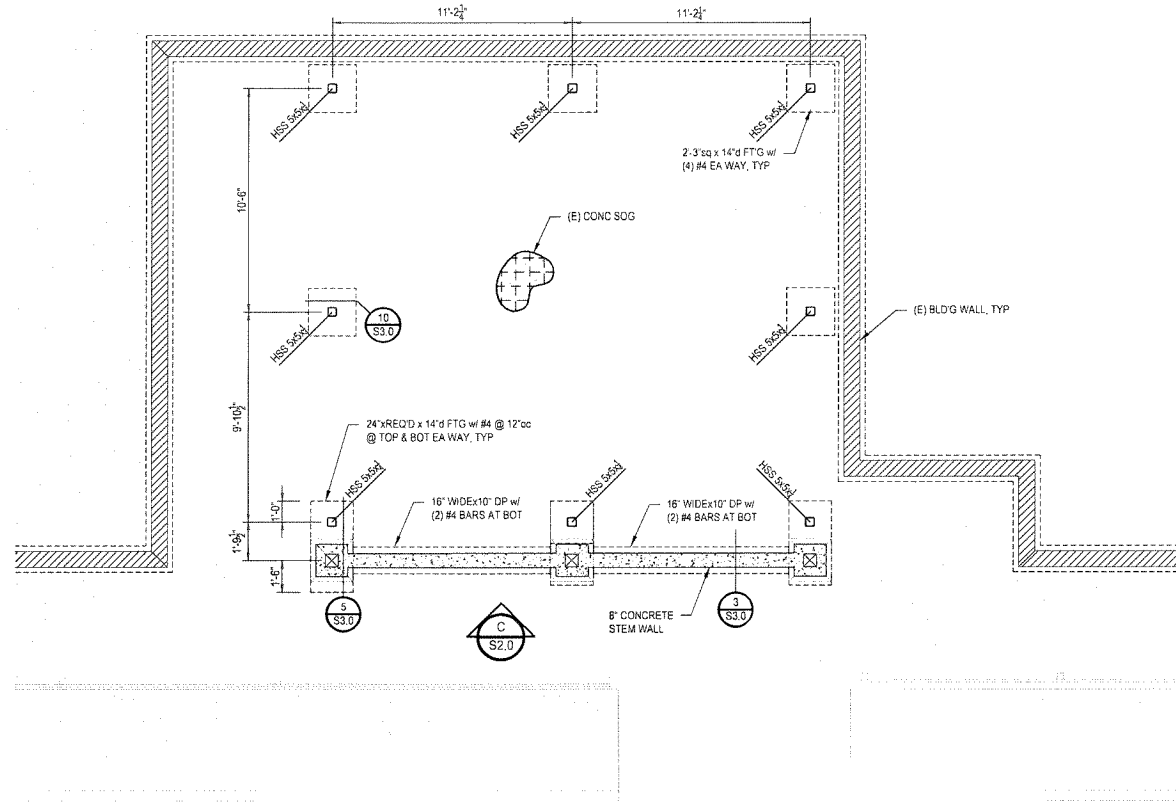
- ALL DEFERRED SUBMITTALS SHALL BE STAMPED BY A REGISTERED STRUCTURAL ENGINEER LICENSED IN THE STATE OF OREGON.
- ALL SUBMITTALS SHOULD BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR AND SPECIALTY SUBCONTRACTOR PERFORMING THE WORK PRIOR TO SUBMITTING TO THE ENGINEER / ARCHITECT.
- SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION OF MATERIAL.
- SUBMIT A SHOP DRAWING SCHEDULE THAT ALLOWS MINIMUM OF TWO WEEKS FOR REVIEW TIME FROM THE DELIVERY DATE OF THE SUBMITTAL.

**DRAWING INDEX:**

SHEET NO.	DESCRIPTION	REVIEW SET
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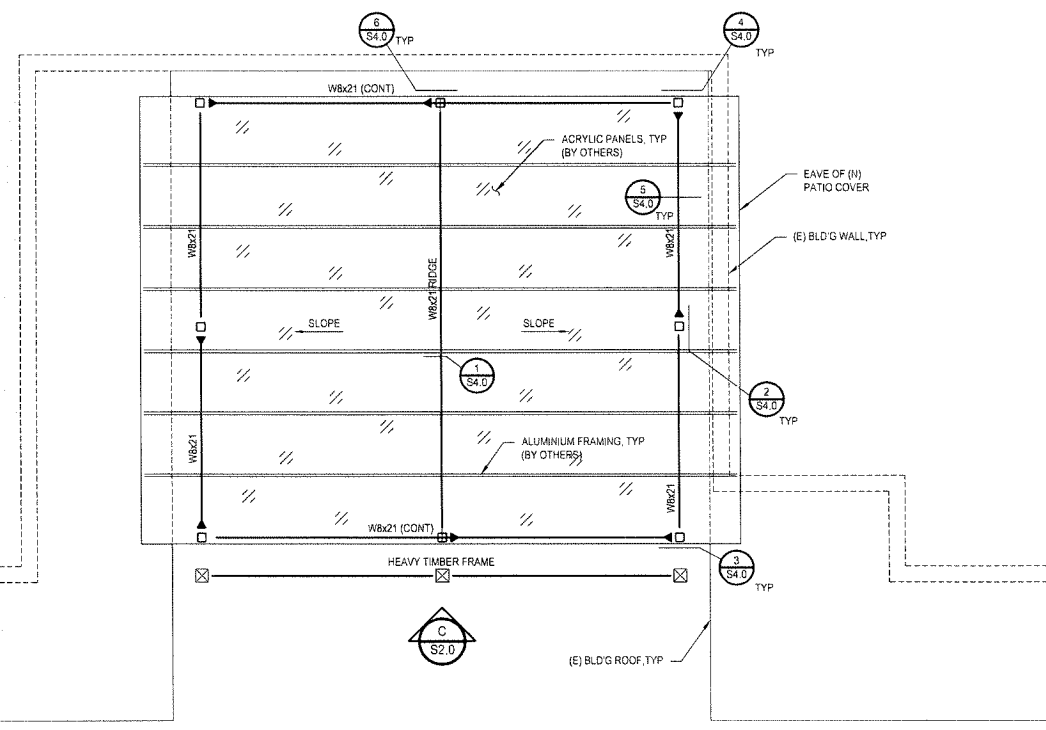


**C HEAVY TIMBER FACADE - ELEVATION**  
3/8" = 1'-0"



**A PATIO COVER SUPPORT FOUNDATION PLAN**  
1/4" = 1'-0"

- PLAN NOTES**
- COORDINATE ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE NOT SHOWN ON THESE DRAWINGS. USE WRITTEN DIMENSIONS ONLY DO NOT SCALE THESE DRAWINGS. BRING ALL DISCREPANCIES TO THE ARCHITECTS & ENGINEERS ATTENTION.
  - SEE SHEET S1.0 FOR GENERAL NOTES
  - ALL SCREWS, BOLTS, WASHERS, NUTS, AND NAIL CONNECTORS SHALL BE HOT-DIPPED GALVANIZED.
  - ALL EXPOSED WOOD FRAMING SHOULD BE WESTERN CEDAR
  - INDICATES MOMENT FRAME CONNECTION
  - ALL STEEL & CONNECTORS EXPOSED TO CONCRETE OR WEATHER TO BE HOT-DIPPED GALVANIZED.
  - DEAD LOAD OF THE PATIO COVER SYSTEM IS ASSUMED TO NOT EXCEED 10 psf
  - TOP OF STEEL AT THE PERIMETER SHOULD BE SET BASED ON FIELD MEASUREMENTS SUCH THAT MINIMUM OF 6" CLEARANCE IS PROVIDED FROM BOTTOM OF THE PATIO COVER FRAMING TO TOP OF EXISTING ROOF ON BOTH THE EAST & WEST SIDES, COORDINATE w/ ARCHITECTURAL DRAWINGS



**B PATIO COVER SUPPORT FRAMING PLAN**  
1/4" = 1'-0"



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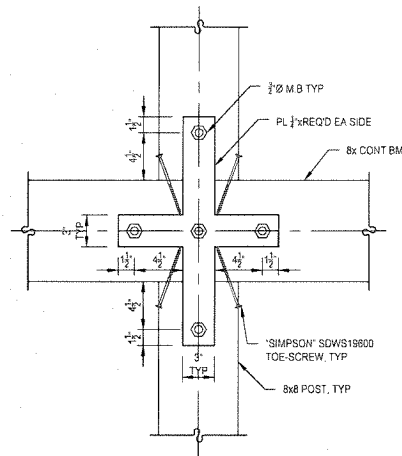
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**OUTDOOR SEATING PATIO COVER**  
FOR  
**TOLLGATE INN RESTAURANT & SALOON**  
38100 US HIGHWAY 26  
SANDY, OR 97055

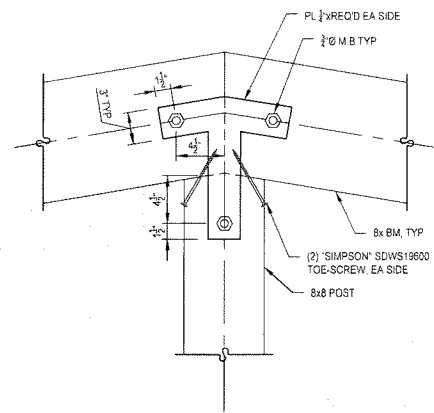
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PLOT DATE 11-28-2022  
DATE 11-28-2022  
DRAWN BY IH  
CHECKED BY BA

**STRUCTURAL PLANS & ELEVATIONS**

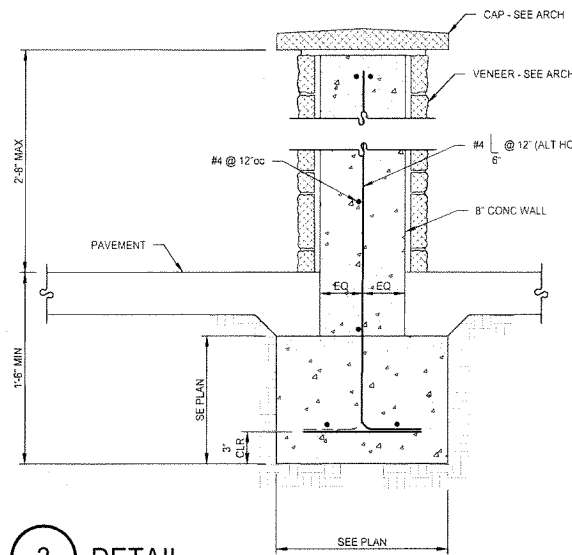
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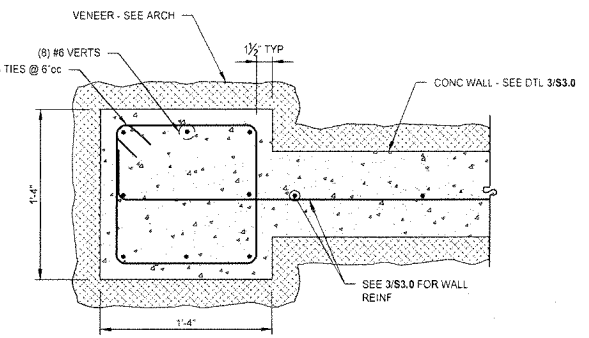
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1 1/2" = 1'-0"



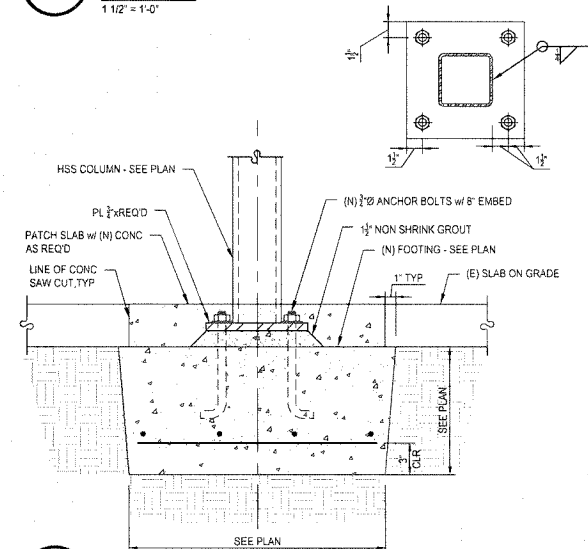
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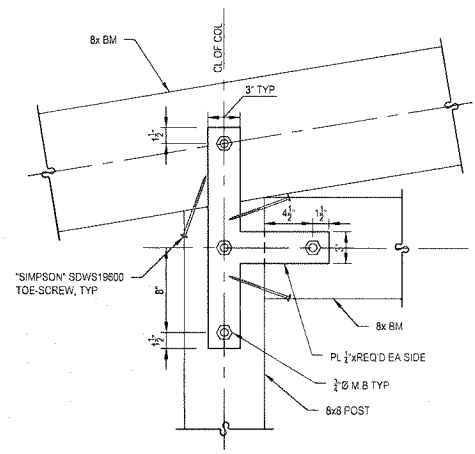
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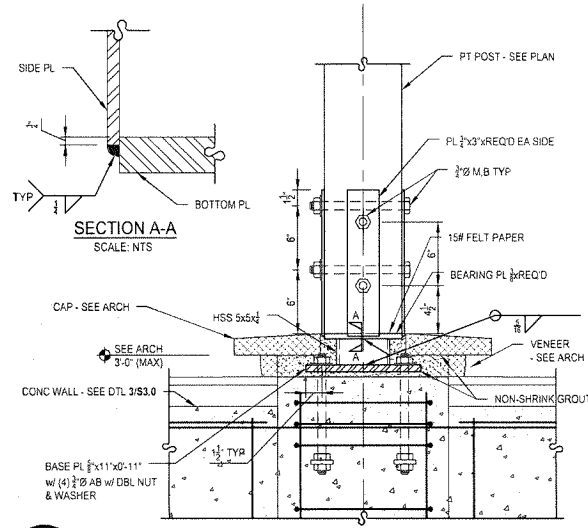
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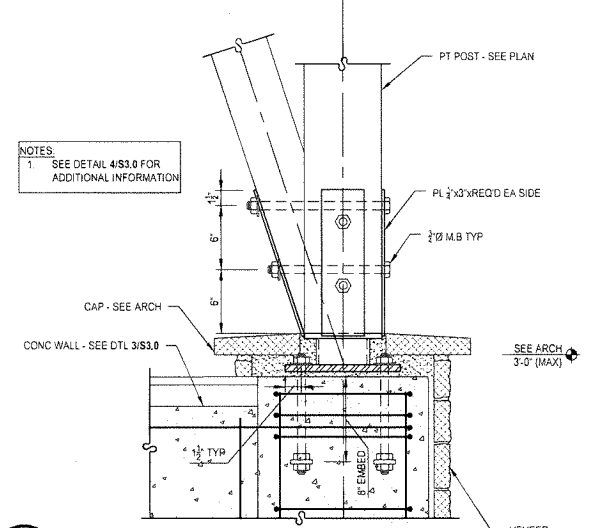
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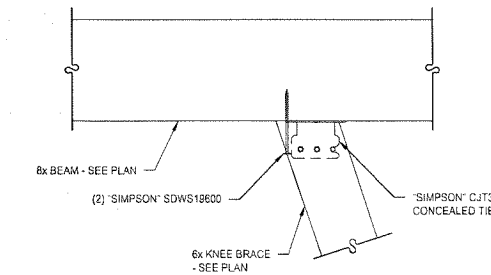
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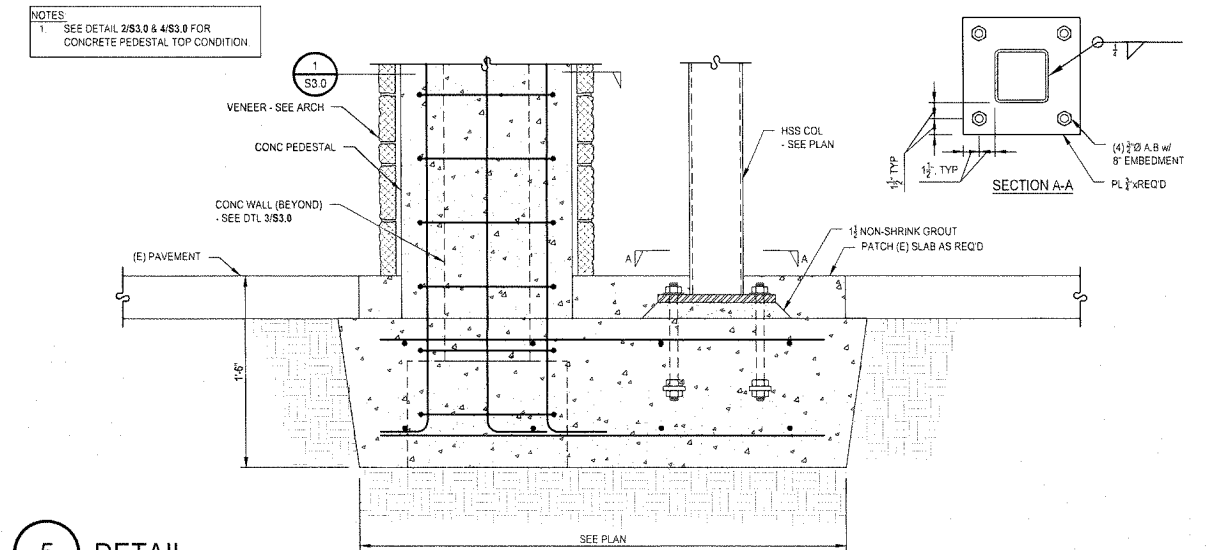
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**2 DETAIL**  
1 1/2" = 1'-0"



**8 DETAIL**  
1 1/2" = 1'-0"



**5 DETAIL**  
1 1/2" = 1'-0"



Associated  
Consultants,  
Inc. Structural Engineers  
1001 N. 5th Street, Suite 100, Sandy, OR 97055  
Office: (503) 384-0460 Fax: (503) 384-0607

REVISIONS

NO.	DESCRIPTION

OUTDOOR SEATING PATIO COVER  
FOR  
TOLLGATE INN RESTAURANT & SALOON  
38100 US HIGHWAY 26  
SANDY, OR 97055

PROJECT NO.  
22-157  
PLOT DATE: 11-28-2022  
DATE: 11-28-2022  
DRAWN BY: IH  
CHECKED BY: BA

STRUCTURAL  
DETAILS

S3.0





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11111 S.W. 11th Avenue, Suite 200  
Portland, Oregon 97219  
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REVISIONS

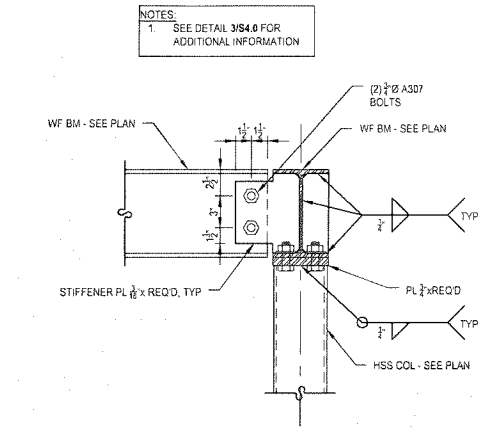
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FOR  
TOLLGATE INN RESTAURANT & SALOON  
38100 US HIGHWAY 26  
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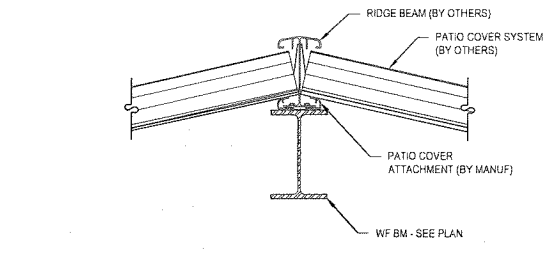
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DETAILS

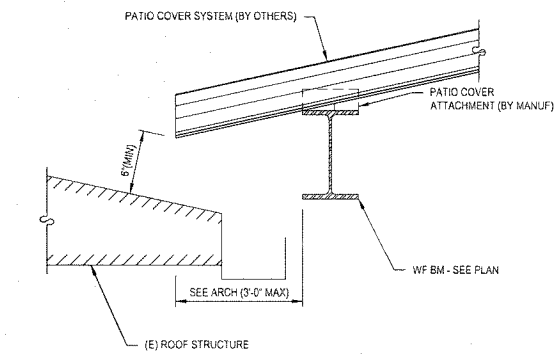
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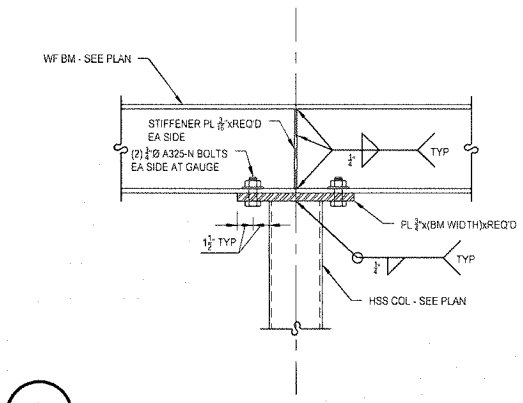
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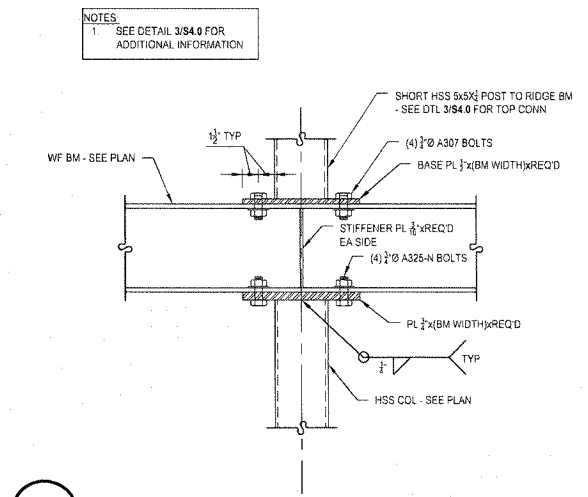
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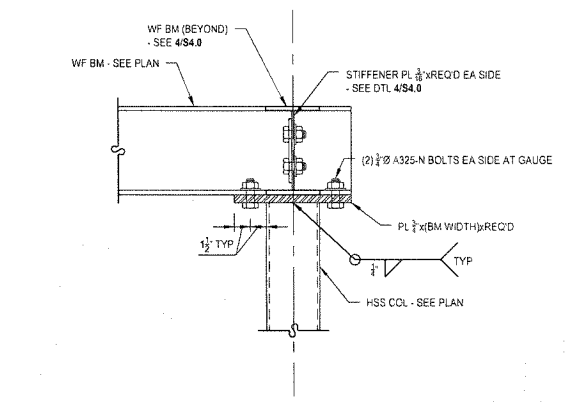
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2 DETAIL  
1 1/2" = 1'-0"



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



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