

NOTICE TO BIDDERS

Notice is hereby given that the City of Winterville will award a contract to the lowest responsible, qualified, bidder, based on sealed bids submitted to City Hall, located at 125 North Church Street, no later than 11:00 am, Prevailing Time, October 25, 2024, for rehabilitation of the 19th century Blacksmith Shop located on Inez Edwards Plaza, Winterville, GA 30683. At that time and date, sealed bids will be publicly opened and the names read aloud at City Hall. Bids received after this time will not be accepted.

The funding is provided, in part, by a Community Development Block Grant, and applicable portions of the work must conform to Davis Bacon Wage Rates. Bidders must provide E-Verify and Section 3 compliance information as well.

- A. All contracts are subject to Federal and State contract provisions prescribed by the Georgia Department of Community Affairs (DCA) and the U.S. Department of Housing and Urban Development (HUD).
- B. This project is covered under the requirements of Section 3 of the HUD Act of 1968, as amended and Section 3 Business Concerns are encouraged to apply.
- C. This project also abides by the following laws as they pertain to HUD Assisted Projects: *Title VI of the Civil Rights Act of 1964; Section 109 of the Housing and Community Development Act of 1974, Title 1; Title VII of the Civil Rights Act of 1968 (Fair Housing Act); Section 104(b)(2) of the Housing and Community Development Act of 1974; Section 504 of the Rehabilitation Act of 1973 as amended; Title II of the Americans with Disabilities Act of 1990 (ADA); and the Architectural Barriers Act of 1968.*
- D. Contracts for this project must include but are not limited to provisions covering: *Equal Employment Opportunity (E.O. 11246) as supplemented by (41 CFR, Part 60); Copeland "Anti-Kickback" Act (18 U.S.C.874) as supplemented by (23 CFR, Part 3); Davis- Bacon Act (40 U.S.C. 27a-7) as supplemented by (29 CFR, Part 5); Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by (29 CFR, Part 5); Section 306 of the Clean Air Act (42 U.S.C. 1857(h)) or Section 508 (33 U.S.C. 1368); Debarment and Suspension (Executive Orders 12549 and 12689); Byrd Anti-Lobbying Amendment (31 U.S.C. 1352); Drug-Free Workplace requirements; Section 6002 of the Solid Waste Disposal Act, as amended.*

Plans may be obtained by Brandy Morrison, Project Architect by email at brandy@brandiedhistory.com. All documents are also posted in Winterville City Hall for review. Additionally, drawings will be on-file on the Georgia Procurement Registry. No copies will be printed or mailed. Bidders are responsible for accessing PDF files online and having prints made. Additionally, all Bidders are responsible to check the Georgia Procurement Registry periodically for any Addenda that have been issued.

This historic rehabilitation project involves the historic Blacksmith Shop at the intersection of Inez Edwards Plaza and Marigold Lane in Winterville, GA. The structure is 650 sq. ft. and requires both exterior and interior improvements including the following: board and batten siding and metal roofing replacement, structural repairs to include replacing the existing slab and extending it under the existing footings, as well as replacing damaged posts, energy codes for insulation and Americans with Disabilities Act compliance. The finished structure will include retail space, office and bathroom. New fire safety, protection, mechanical, electrical, plumbing (MEP) and heating, ventilation, and air conditioning systems (HVAC) will be installed. This project

will comply with the Secretary of the Interior's Standards for Historic Buildings. Contractors should demonstrate experience in the field of historic preservation or rehabilitation.

An open pre-bid meeting will be held for all bidders on October 11, 2024 from 10:30am to 11:30am at the site. The meeting will address project specific questions, scope of site work in this contract, and bidding procedures. This site visit is not required but highly recommended.

Proof of General Liability Insurance and Workman's Compensation Insurance will be required with the City of Winterville listed as an additional insured. All bids must be accompanied by a Bid Bond or Certified Funds in the amount of 5% of the Bid Amount. All Bidders must submit E-verify Affidavits with Bids.

The City of Winterville reserves the right to reject any and all bids, to waive any technicalities or irregularities, and to award the bid based on the highest and best interests of the City.

Dodd Ferrelle, Mayor
City of Winterville

DRAWING INDEX

AO.00 - TITLE SHEET	S-0.0 - STRUCTURAL GENERAL NOTES
EX2.01 - EXISTING DRAWINGS	S-1.0 - FOUNDATION & FRAMING PLANS
A2.01 - PLAN & ALTERNATE PLAN	S-2.0 - BUILDING SECTION DETAILS
A3.01 - ELEVATIONS	
A9.01 - SECTION	EO.01 - ELECTRICAL GENERAL
A9.02 - WALL DETAILS	EO.02 - ELECTRICAL SPECIFICATIONS
A9.03 - MILLWORK ELEVATION	EO.03 - ELECTRICAL SCHEDULES
E2.01 - ELECTRICAL LAYOUT	EO.04 - COMCHECK
	E2.01 - ELECTRICAL FLOOR PLAN
C1.0 - SITE DEMOLITION PLAN	MO.01 - MECHANICAL GENERAL & DETAILS
C2.0 - SITE PLAN	M2.01 - MECHANICAL FLOOR PLAN
C2.1 - SITE DETAILS	PO.01 - PLUMBING GENERAL
C3.0 - GRADING PLAN	PO.02 - PLUMBING LEGEND & SCHEDULES
C4.0 - UTILITY & EROSION CONTROL PLAN	PO.03 - PLUMBING DETAILS
C4.1 - UTILITY & EROSION CONTROL DETAILS	P2.01 - PLUMBING FLOOR PLAN
C5.0 - PLANTING PLAN	
C2.0 - PLANTING & IRRIGATION DETAILS	

PROJECT LOCATION MAP



PROJECT TEAM

OWNER:
CITY OF WINTERVILLE
125 N CHURCH ST.
WINTERVILLE, GA 30683

ARCHITECT:
BRANDY MORRISON
BRANDIED HISTORY, LLC
485 OAKLAND AVE SE
ATLANTA, GA 30312
BRANDY@BRANDIEDHISTORY.COM

STRUCTURAL ENGINEER:
STABILITY ENGINEERING
1376 CHURCH ST, SUITE 200
DECATUR, GA 30030

MECHANICAL, ELECTRICAL & PLUMBING ENGINEERS
PROFICIENT ENGINEERING
3150 HOLCOMB BRIDGE RD
NORCROSS, GA 30071

LANDSCAPE ARCHITECT
KOONS ENVIRONMENTAL DESIGN, INC.
675 PULASKI STREET
SUITE 2000
ATHENS, GA 30601

SCOPE OF WORK

RESTORATION OF EXISTING HISTORIC BLACKSMITH SHOP. RESTORATION TO INCLUDE FRAMING REPAIRS, RESIDING, INSULATION, ROOFING REPAIRS. ALTERNATES INCLUDE BATHROOM AND INTERIOR FINISHES. PROJECT IS TO FOLLOW NATIONAL PARK SERVICE STANDARDS FOR REHABILITATION.

ABBREVIATIONS

BD	- BOARD
C.O.	- CASED OPENING
CL	- CENTER LINE
EQ	- EQUAL
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GWB	- GYPSUM WALLBOARD
H	- HEIGHT
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O.C.	- ON CENTER
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P.T.	- PRESSURE TREATED
PTD	- PAINTED
SQ	- SQUARE
T&G	- TONGUE & GROOVE
TBD	- TO BE DETERMINED
U.N.O.	- UNLESS NOTED OTHERWISE
V.I.F.	- VERIFY IN FIELD
W	- WIDTH
WD	- WOOD

APPLICABLE CODES:

- International Building Code, 2018 Edition, with Georgia Amendments
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- International Fuel Gas Code, 2018 Edition, with Georgia Amendments
- National Electrical Code, 2017 Edition, with no Georgia Amendments
- International Energy Code, 2018 Edition, with Georgia Supplements and Amendments
- NFPA 101 - Life Safety Code, 2018 Edition with State Amendments

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK.
- "VERIFY" INDICATES AN ASSUMED EXISTING CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING, IN THE FIELD, THAT THE ACTUAL EXISTING CONDITION IS ACCURATELY DESCRIBED IN THESE DRAWINGS. IF THE EXISTING CONDITIONS ARE DIFFERENT, THE CONTRACTOR SHALL NOTIFY BRANDIED HISTORY, LLC, AND AWAIT NOTICE OF HOW TO PROCEED. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED.
- ALL DIMENSIONS ARE TAGGED TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
- THESE DRAWINGS ARE NOT TO BE SCALED FOR OBTAINING DIMENSIONAL INFORMATION.
- NOT USED
- BRANDIED HISTORY, LLC, IS NOT RESPONSIBLE FOR STRUCTURAL ISSUES, FRAMING PLANS, AND SIZING OF MEMBERS TO BE DETERMINED BY STRUCTURAL ENGINEER OR CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY BRACING OF ALL WORK DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED BY THE CITY OF WINTERVILLE AND CLARKE COUNTY.
- CONTRACTOR IS RESPONSIBLE FOR FOLLOWING OSHA STANDARDS FOR ALL WORKERS, INCLUDING SUBCONTRACTORS.
- ALL EXISTING SPECIMEN TREES SHALL BE PROTECTED DURING CONSTRUCTION, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL APPLICABLE CODES.
- CONTRACTOR IS TO CONDUCT A CONSTRUCTION KICK-OFF MEETING WITH OWNER AND ARCHITECT PRESENT.
- CONTRACTOR IS TO PROVIDE OWNER WITH ANTICIPATED SCHEDULE AT BEGINNING OF PROJECT.
- CONTRACTOR TO PROVIDE SAMPLES OR MOCK-UPS OF ALL NEW MATERIALS FOR OWNER'S APPROVAL.
- CONTRACTOR TO PROVIDE PRODUCT DATA ON ALL APPLIANCES AND FIXTURES FOR OWNER REVIEW.
- CONTRACTOR TO PROVIDE ALL SAMPLES, MOCK-UPS OR PRODUCT DATA FOR OWNER REVIEW IN A TIMELY MANNER TO AVOID DELAYS.
- FOR ALL CLEANING AND REFINISHING WORK, CONTRACTOR IS TO TEST THE METHOD IN AN INCONSPICUOUS AREA AND SUBMIT TO ARCHITECT FOR APPROVAL.
- ALL INSTALLERS ARE TO BE LICENSED AND INSURED PER APPLICABLE LAWS.
- ALL MATERIALS ARE TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND BEST PRACTICES. IF A DISCREPANCY ARISES, NOTIFY ARCHITECT.
- UPON COMPLETION, CONTRACTOR IS TO SUBMIT AN OPERATIONS & MAINTENANCE MANUAL TO THE OWNER. IT IS TO INCLUDE AS-BUILT DRAWINGS, ALL EQUIPMENT INFORMATION, MSDS, USER MANUALS, WARRANTIES AND OTHER PRODUCT INFORMATION REQUIRED FOR SUCCESSFUL MAINTENANCE OF THE BUILDING.
- CONTRACTOR IS TO SECURE THE SITE AT ALL TIMES
- CONTRACTOR IS TO CLEAN SITE UPON COMPLETION.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ARCHITECT OF ANY SUSPECTED HAZARDOUS MATERIALS, INCLUDING ASBESTOS AND LEAD CONTAINING MATERIALS.

04 - MASONRY

- INSTALL CONCRETE FOOTING UNDER EXISTING WOOD GRADE BEAMS. DO NOT DAMAGE BEAMS.
- REPAIR EXISTING CONCRETE SLAB. INSTALL TOPPING SLAB. BUFF AND POLISH.
- CONCRETE FOOTINGS DESIGNED FOR 2000 PSI SOIL. REINFORCING TO MEET ASTM A615.
- BRICK TO MEET ASTM C62-17 "Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)".
- CLEAN EXISTING BRICK. BEGIN CLEANING USING THE GENTLEST CLEANER POSSIBLE. PROVIDE TEST AREA FOR ARCHITECT REVIEW. USE SOFT BRISTLE BRUSHES. DO NOT PRESSURE WASH OR SANDBLAST. FOLLOW PRESERVATION BRIEF #1 "Assessing Cleaning and Water-Repellent Treatments for Historic Masonry Buildings"
- REPOINT EXISTING BRICK WHERE MORTAR IS LOOSE. MATCH EXISTING MORTAR AND STRIKE. PROVIDE MORTAR ANALYSIS FOR ARCHITECT REVIEW. FOLLOW PRESERVATION BRIEF #2 "Repointing Mortar Joints in Historic Masonry Buildings"

06 - WOOD PLASTICS AND COMPOSITES

- EXISTING LUMBER IS HISTORIC AND IS TO BE RETAINED AND REPAIRED WHERE POSSIBLE. WHERE REPLACEMENT IS NECESSARY, NEW LUMBER IS TO MATCH EXISTING IN SIZE, PROFILE, SPECIES AND GRADE.
- ALL LUMBER WITHIN 30" OF GRADE TO BE PRESSURE TREATED.
- WOOD SIDING, BOARD AND BATTEN, SPACING, SPECIES, GRADE AND SAW MARKS TO MATCH EXISTING.
- EXTERIOR TRIM TO MATCH EXISTING, PAINTED
- BOARD WALLS, PRESSURE TREATED WITHIN 30" OF GRADE.
- INTERIOR DOOR AND WINDOW TRIM TO BE 1X4

07 - THERMAL AND MOISTURE PROTECTION

- INSULATION VALUES PER DRAWINGS
- DO NOT USE CLOSED CELL INSULATION ON OLD LUMBER
- ROOFING:
BASE BID: REMOVE EXISTING ROOF, INSTALL NEW DECKING, 2 LAYERS ICE AND WATER SHIELD, ASPHALT SHINGLES. REINSTALL ORIGINAL ROOFING PANELS OVER ASPHALT SHINGLES
ALTERNATE BID:
INSTALL NEW 5 V ROOFING PANELS WITH CORTEN FINISH. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- FLASHING PER SMACNA AT ALL VALLEYS, RIDGES, HIPS, CHIMNEYS, ETC. INSTALL STEP FLASHING AT CHIMNEY.
- INSTALL HALF ROUND GUTTERS WITH SPLASH BLOCKS AT BASE OF DOWNSPOUTS.
- INSTALL FRENCH DRAIN IN GRAVEL BED AT FOUNDATIONS.

08 - OPENINGS

- INTERIOR DOORS - NEW TO BE 6 PANEL SOLID CORE WOOD. LEVER STYLE PRIVACY LOCK IN BATHROOM. FINISH PER OWNER
- EXTERIOR DOORS - EXISTING FRONT AND REAR DOOR TO REMAIN. REPAIR. REPLACE DAMAGED BOTTOM STILE AT REAR DOOR.
- WINDOWS - REPAIR EXISTING FRONT WINDOW. INSTALL NEW WOOD AWNING WINDOW ON SIDE.

09 - FINISHES

- FLOORS**
- NEW FLOORS TO BE CONCRETE, POLISHED. INSTALL TOPPING SLAB WHERE NECESSARY.
 - WALLS TO TONGUE & GROOVE WOOD OR GYPSUM BOARD, PAINTED. SEE PARTITION TYPES FOR LOCATIONS.
- WALLS IN BATHROOMS TO BE MOISTURE RESISTANT GYPSUM BOARD.
- CEILINGS TO BE SHEETROCK MOUNTED TO UNDER SIDE OF RAFTERS. ALTERNATE: BOARD**
- EXTERIOR PAINTING**
ALL WOODWORK TO RECEIVE PAINT NEEDS ONE COAT PRIMER.
ALL WOOD TO BE BACK & END PRIMED.
ALL WOODWORK: TWO COATS FINISH PAINT, OVER ONE PRIMER COAT. COLOR O.S.
- INTERIOR PAINTING**
FINISH PAINT TO BE OWNER SPECIFIED.
ALL MILLWORK TO RECEIVE ONE COAT PRIMER UNDERCOAT, W/ TWO COATS FINISH PAINT.
GYP. BOARD AND PLASTER TO RECEIVE ONE COAT VINYL LATEX PRIME/SEALANT W/ TWO COATS FINISH PAINT.
PROVIDE PENETRATING STAIN SEALER AT CONCRETE FLOOR OR STAIN FLOOR - OWNER SPECIFIED.

12- FURNISHINGS

- APPLIANCES**
REFRIGERATED DISPLAY CASE OWNER SELECTED. REFRIGERATOR/FREEZER COMBO, OWNER SELECTED
- CABINETS**
12" WOOD SHELVES ON WOOD BRACKETS AT DISPLAY AREA. MOUNT AT 18" O.C.

ELECTRICAL

- EXISTING ELECTRICAL PANEL TO BE REPLACED
- LIGHT FIXTURES OWNER SPECIFIED.
- NEW OUTLETS PER CODE.
- GFIC OUTLETS IN BATHROOMS

22- PLUMBING

- PLUMBING FIXTURES**
ADA COMPLIANT WATER CLOSET, LAVATORY AND FAUCET. ADA GRAB BARS AT WATER CLOSET.
36" WIDE 3 COMPARTMENT SINK, OWNER SELECTED. 16"x24" FLOOR MOUNTED MOP SINK WITH DRAIN. 12"x16" HAND WASH SINK.

23- HVAC

- DUCTLESS MINISPLIT



Brandied History, LLC

485 Oakland Ave. SE
Atlanta, GA 30312

1601 Mansfield St
Brunswick, GA 31520

(404) 723-7240



Design Development Drawings For
WINTERVILLE BLACKSMITH SHOP
 Winterville GA

August 2, 2024

Handwritten signature

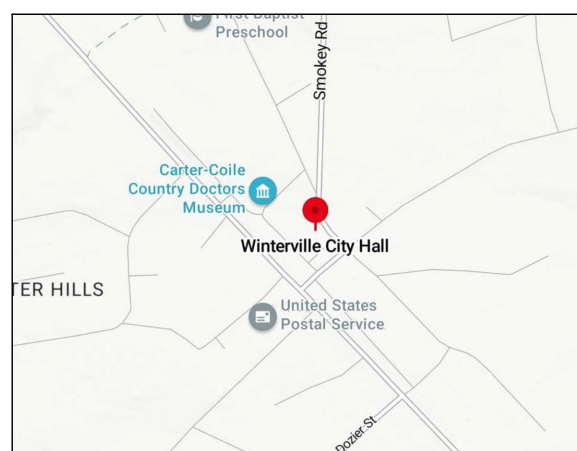
AO.00

TITLE SHEET

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PROFICIENT ENGINEERING
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1. INSULATION VALUES PER DRAWINGS
2. DO NOT USE CLOSED CELL INSULATION ON OLD LUMBER
3. ROOFING:
BASE BID: REMOVE EXISTING ROOF, INSTALL NEW DECKING, 2 LAYERS ICE AND WATER SHIELD, ASPHALT SHINGLES. REINSTALL ORIGINAL ROOFING PANELS OVER ASPHALT SHINGLES
ALTERNATE BID:
INSTALL NEW 5/8" ROOFING PANELS WITH CORTEN FINISH. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
4. FLASHING PER SMACNA AT ALL VALLEYS, RIDGES, HIPS, CHIMNEYS, ETC. INSTALL STEP FLASHING AT CHIMNEY.
5. INSTALL HALF ROUND GUTTERS WITH SPLASH BLOCKS AT BASE OF DOWNSPOUTS.
6. INSTALL FRENCH DRAIN IN GRAVEL BED AT FOUNDATIONS.

08 - OPENINGS

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2. EXTERIOR DOORS - EXISTING FRONT AND REAR DOOR TO REMAIN. REPAIR. REPLACE DAMAGED BOTTOM STILE AT REAR DOOR.
3. WINDOWS - REPAIR EXISTING FRONT WINDOW. INSTALL NEW WOOD AWNING WINDOW ON SIDE.

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- WALLS AND CEILINGS
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- APPLIANCES
- REFRIGERATED DISPLAY CASE OWNER SELECTED. REFRIGERATOR/FREEZER COMBO, OWNER SELECTED
- CABINETS
- 12" WOOD SHELVES ON WOOD BRACKETS AT DISPLAY AREA. MOUNT AT 18" O.C.

ELECTRICAL

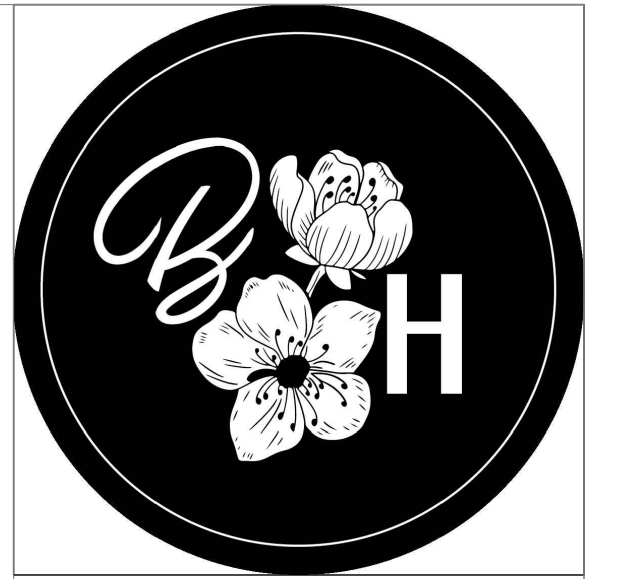
1. EXISTING ELECTRICAL PANEL TO BE REPLACED
2. LIGHT FIXTURES OWNER SPECIFIED.
3. NEW OUTLETS PER CODE.
4. GFIC OUTLETS IN BATHROOMS

22- PLUMBING

- PLUMBING FIXTURES
- ADA COMPLIANT WATER CLOSET, LAVATORY AND FAUCET. ADA GRAB BARS AT WATER CLOSET.
- 36" WIDE 3 COMPARTMENT SINK, OWNER SELECTED. 16"X24" FLOOR MOUNTED MOP SINK WITH DRAIN. 12"X16" HAND WASH SINK.

23- HVAC

1. DUCTLESS MINISPLIT



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Design Development Drawings For
WINTERVILLE BLACKSMITH SHOP
Winterville GA

August 2, 2024

AO.00

TITLE SHEET



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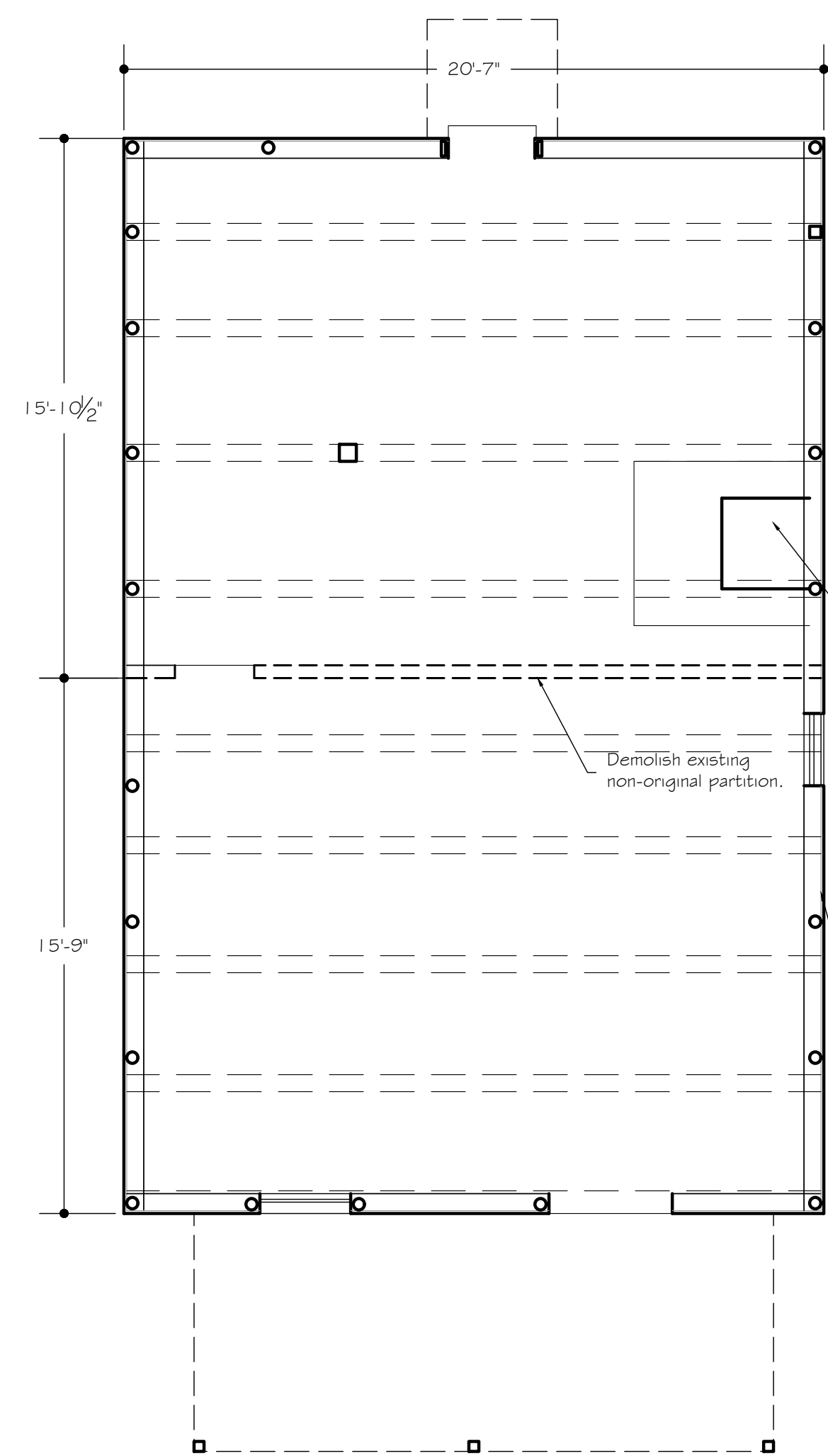


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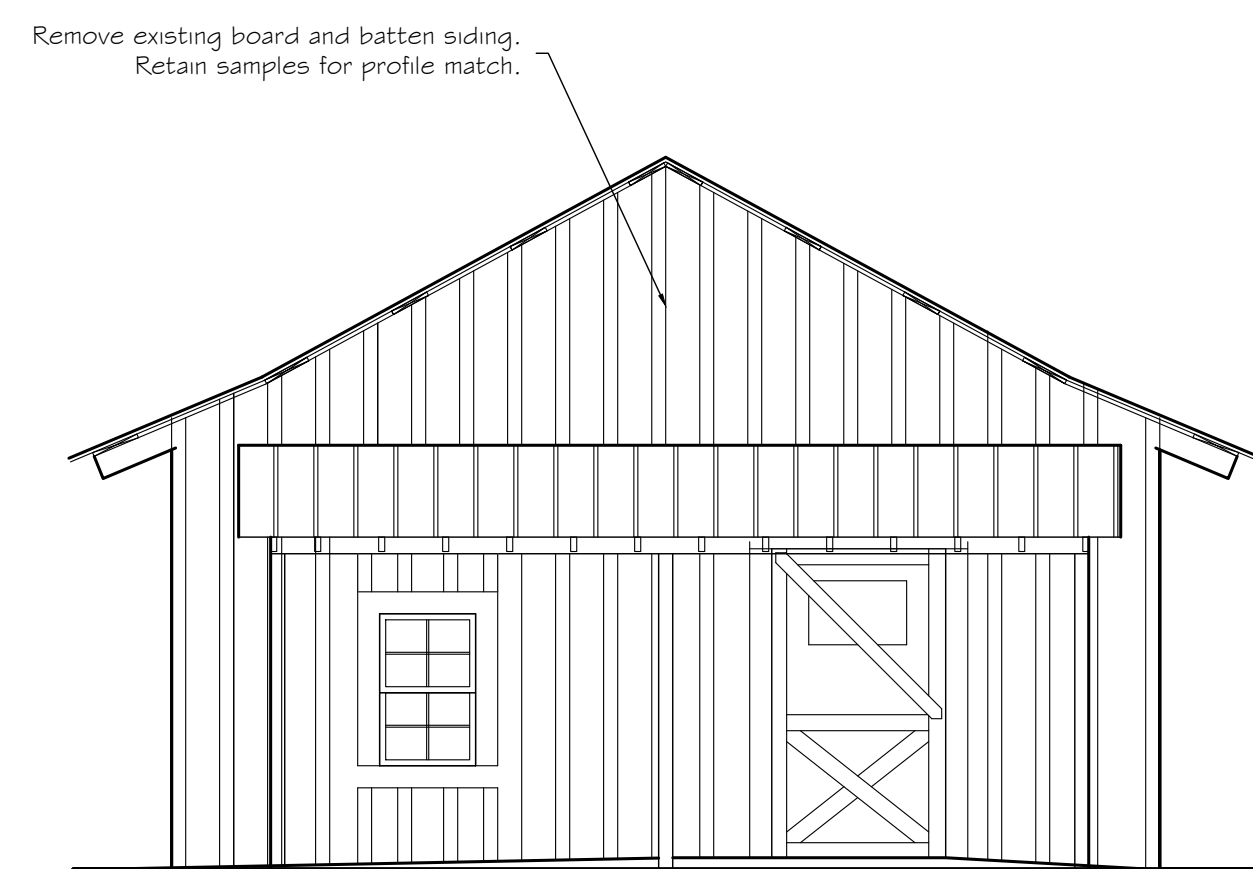
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ex2.01

Existing & Demolition
drawings



1 Existing Floor Plan
ex2.01 1/4" = 1'-0"

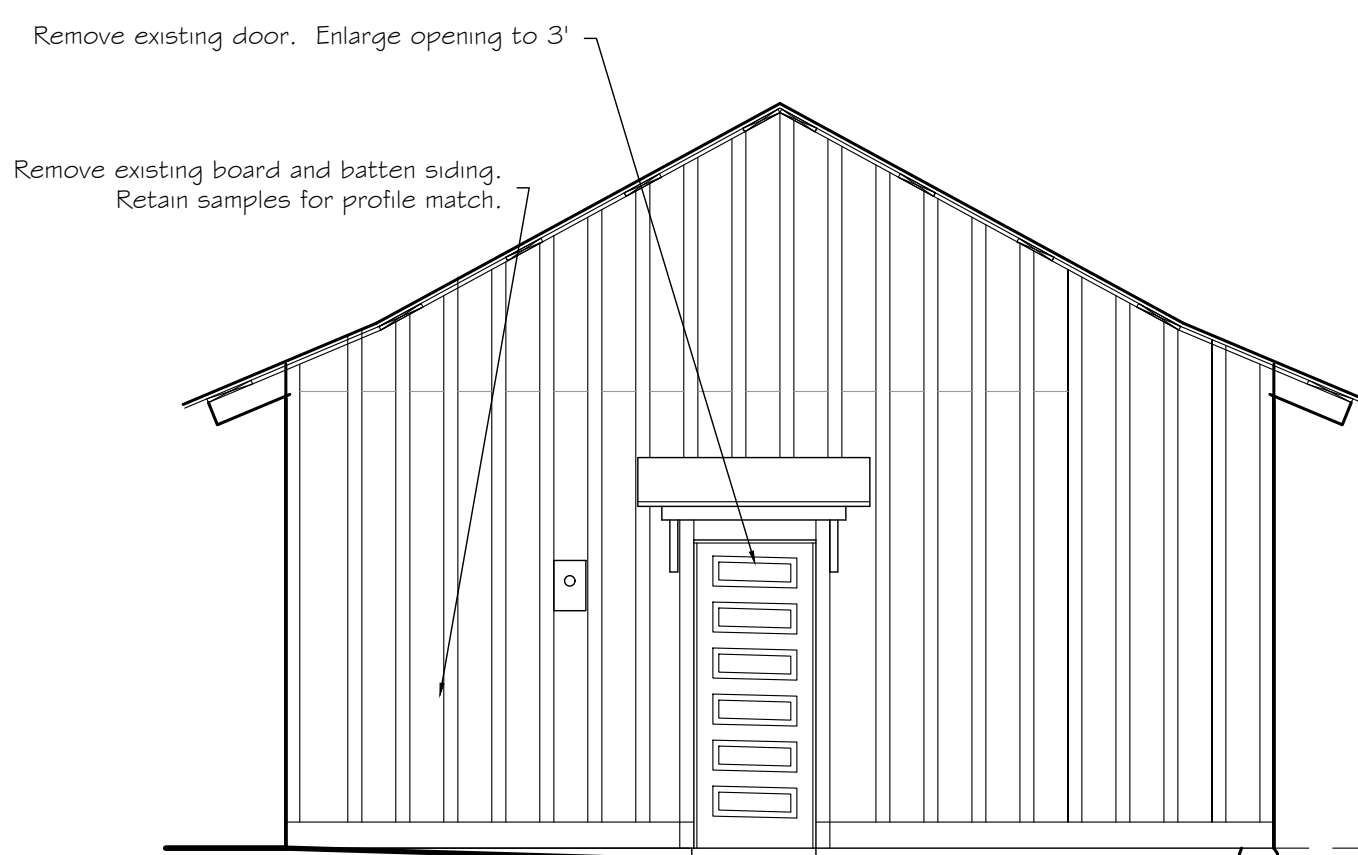


2 Existing Front Elevation
ex2.01 1/4" = 1'-0"

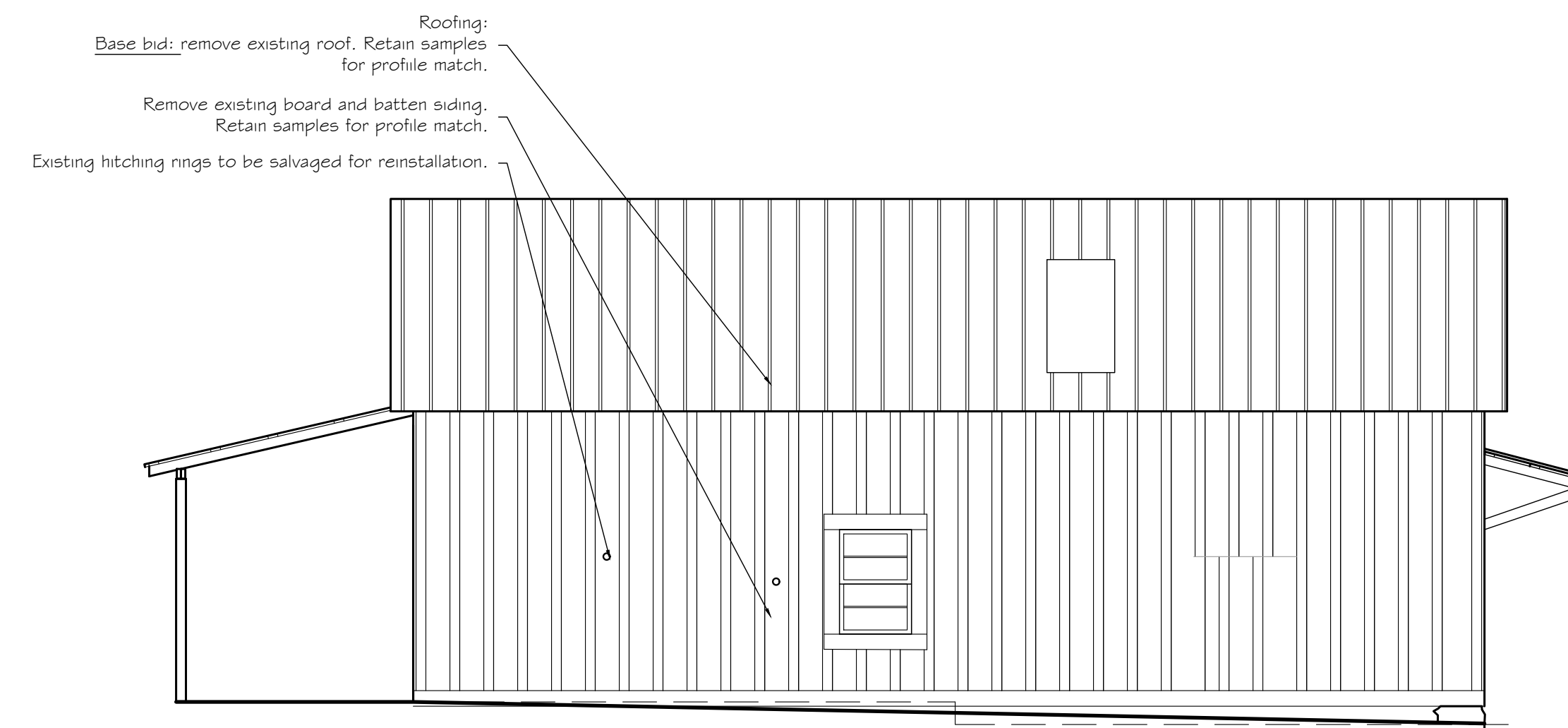
Existing forge to remain and be protected throughout construction.

Demolish existing non-original partition.

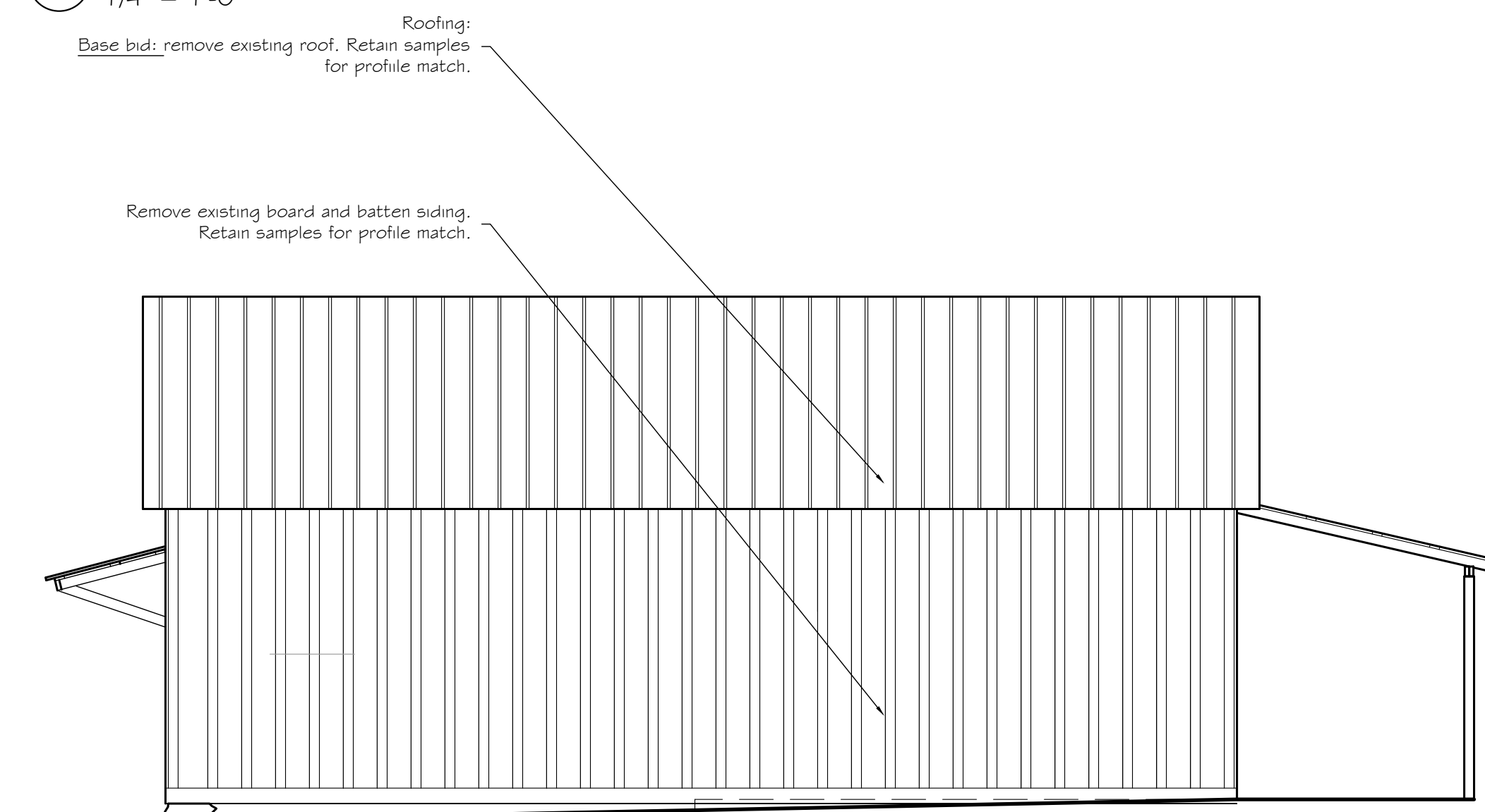
Remove deteriorated fiberboard, typical at all walls.



4 Existing Rear Elevation
ex2.01 1/4" = 1'-0"

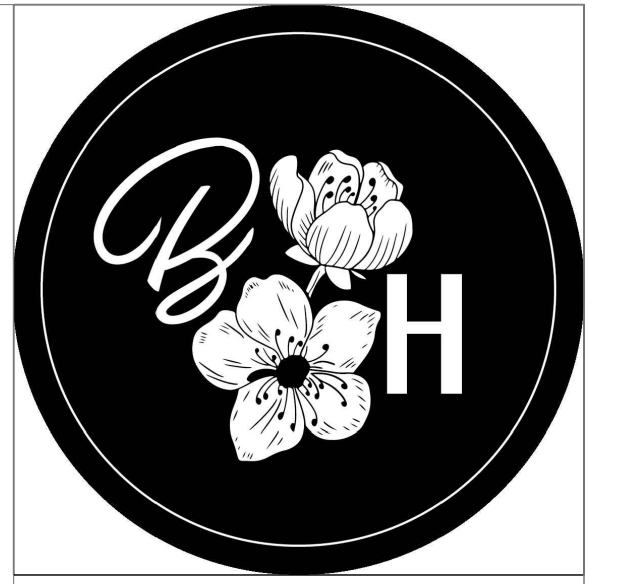


3 Existing Side Elevation
ex2.01 1/4" = 1'-0"



5 Existing Side Elevation
ex2.01 1/4" = 1'-0"

SURVEY



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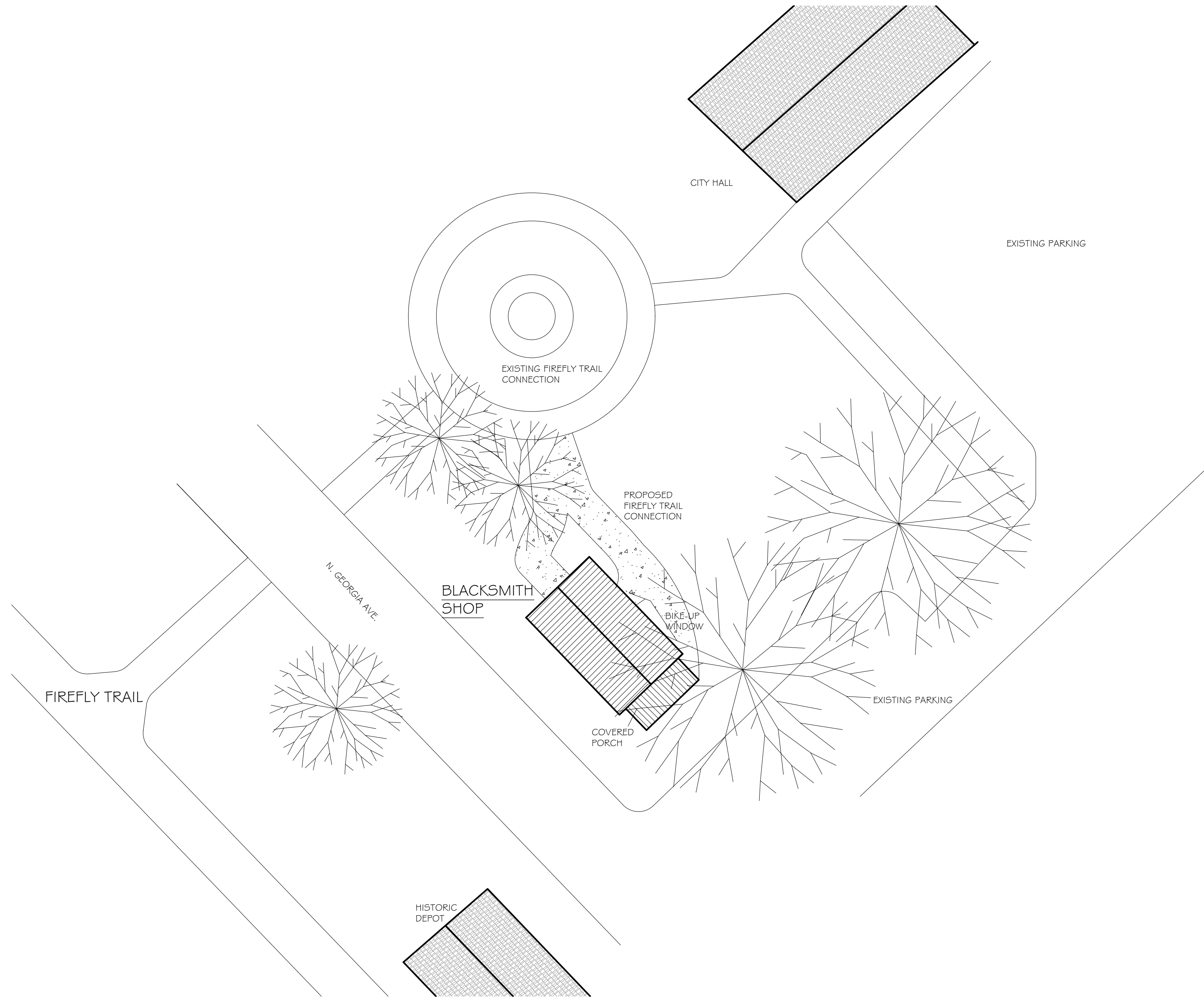


Design Development Drawings For
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August 2, 2024

A1.01

SURVEY



1 Site Plan
A1.02 NTS



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Design Development Drawings For
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A1.02

SITE
PLAN



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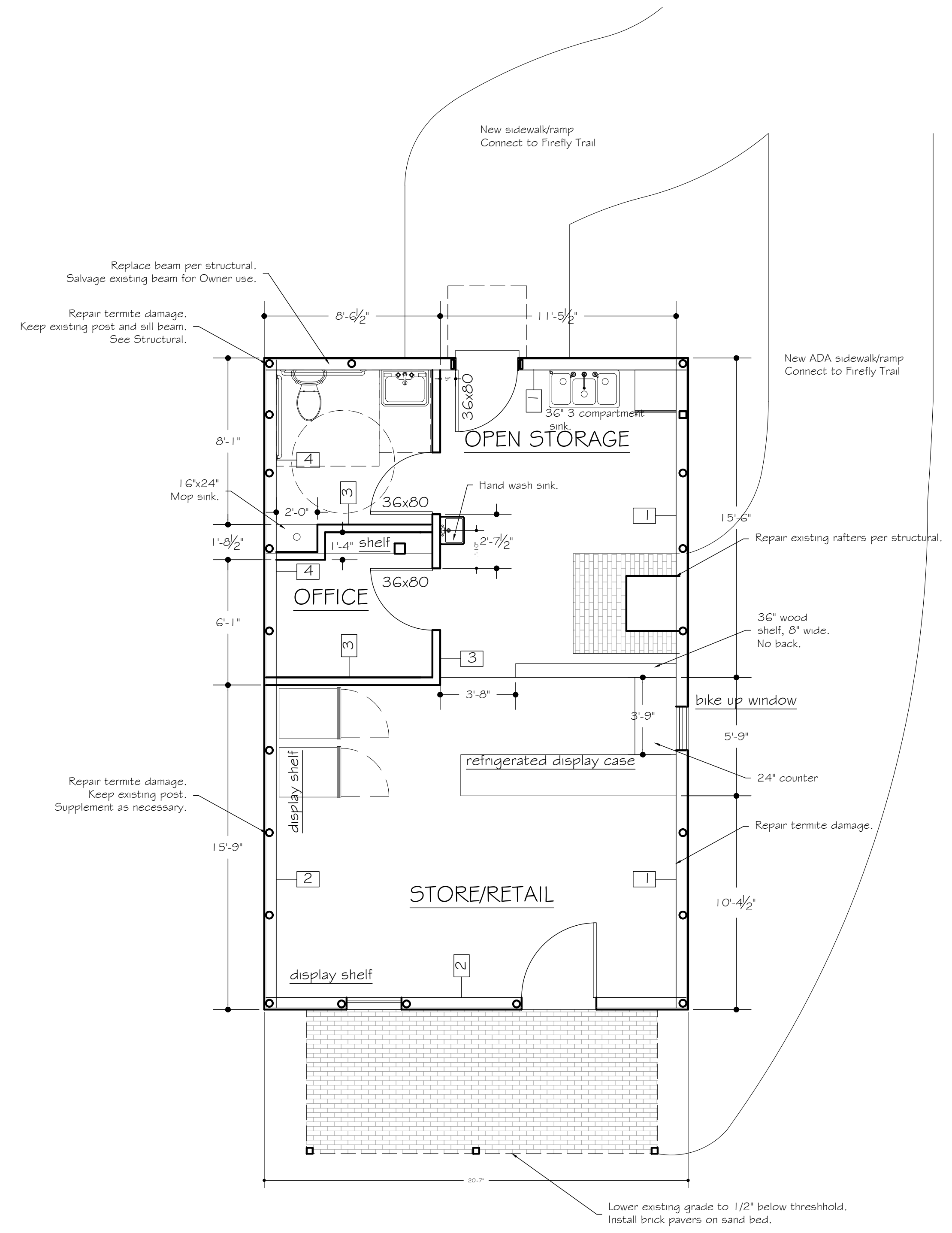


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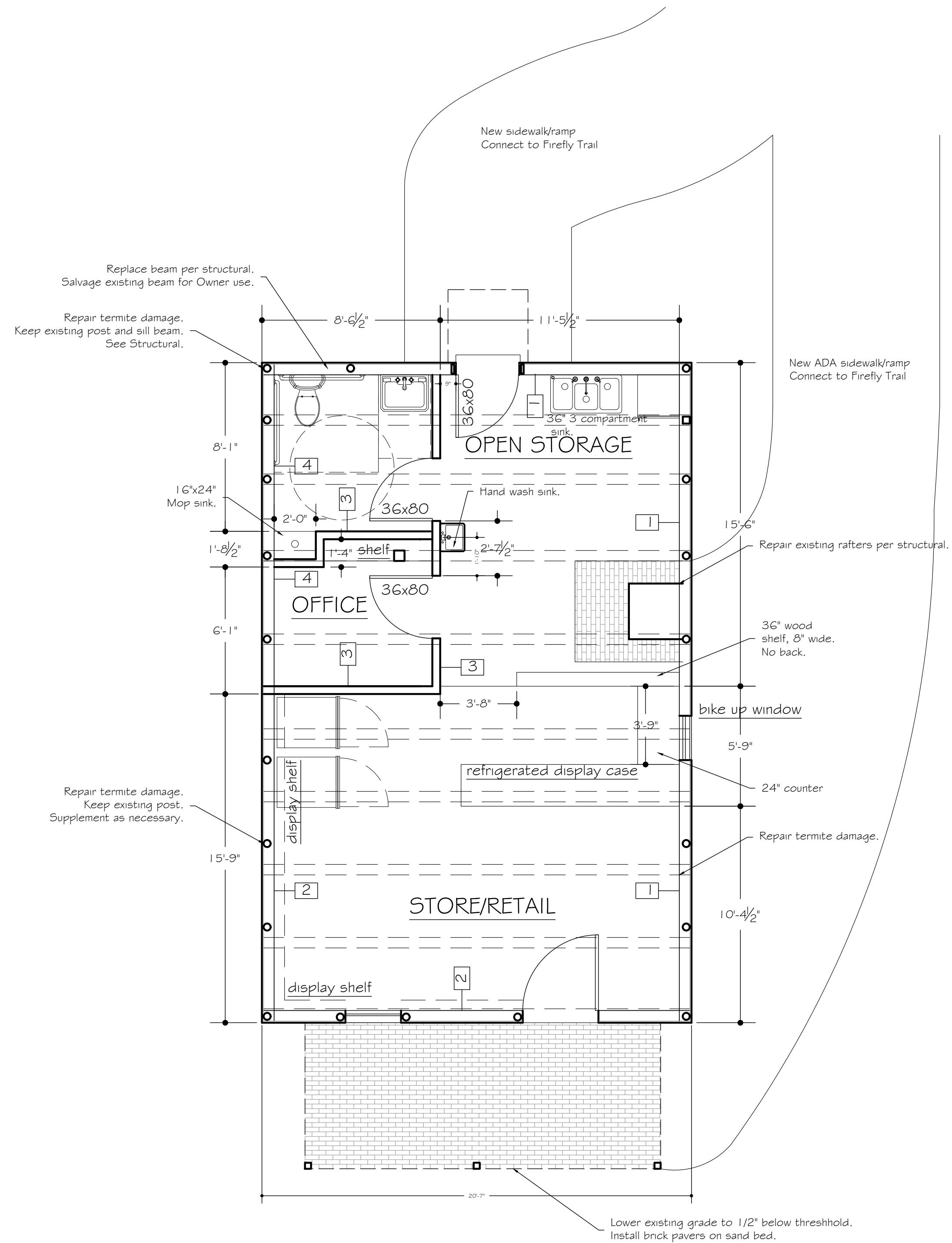
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A2.01

CONCEPT PLANS



1 Floor Plan Option A
A2.01 1/4" = 1'-0"



1 First Floor Plan
 A2.01 1/4" = 1'-0"



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Design Development Drawings For
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A2.01

FIRST
 FLOOR LIFE SAFETY
 PLAN



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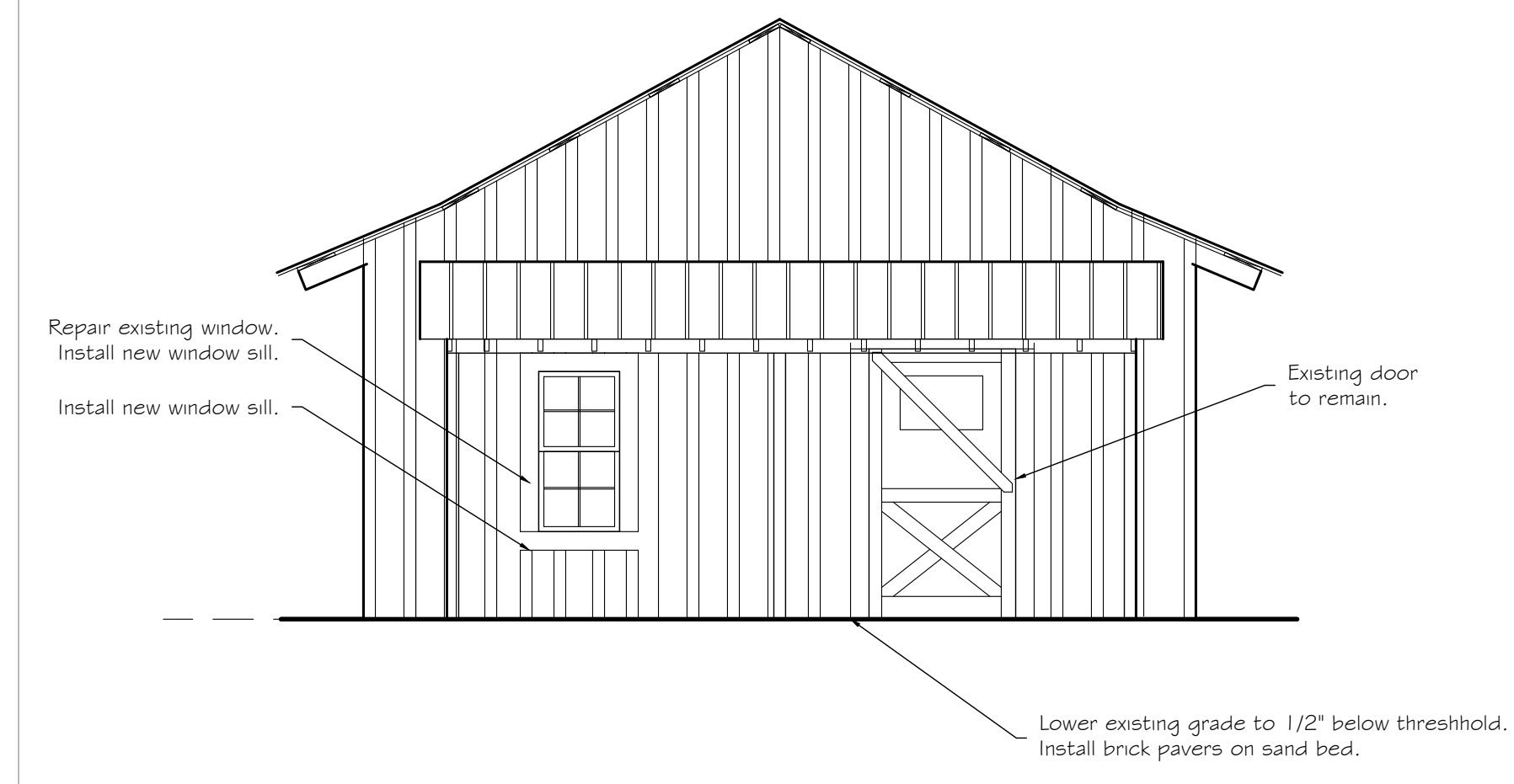


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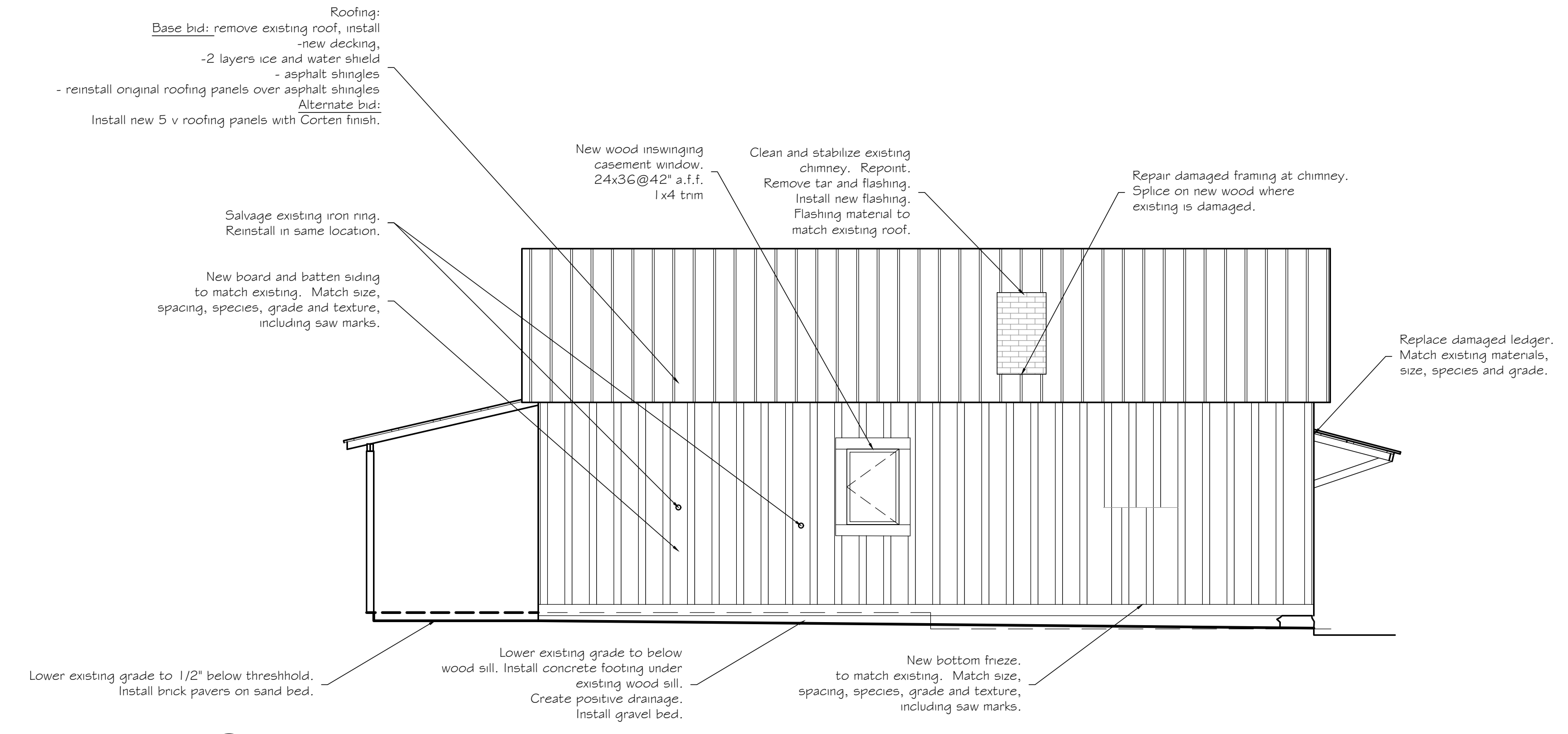
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A3.01

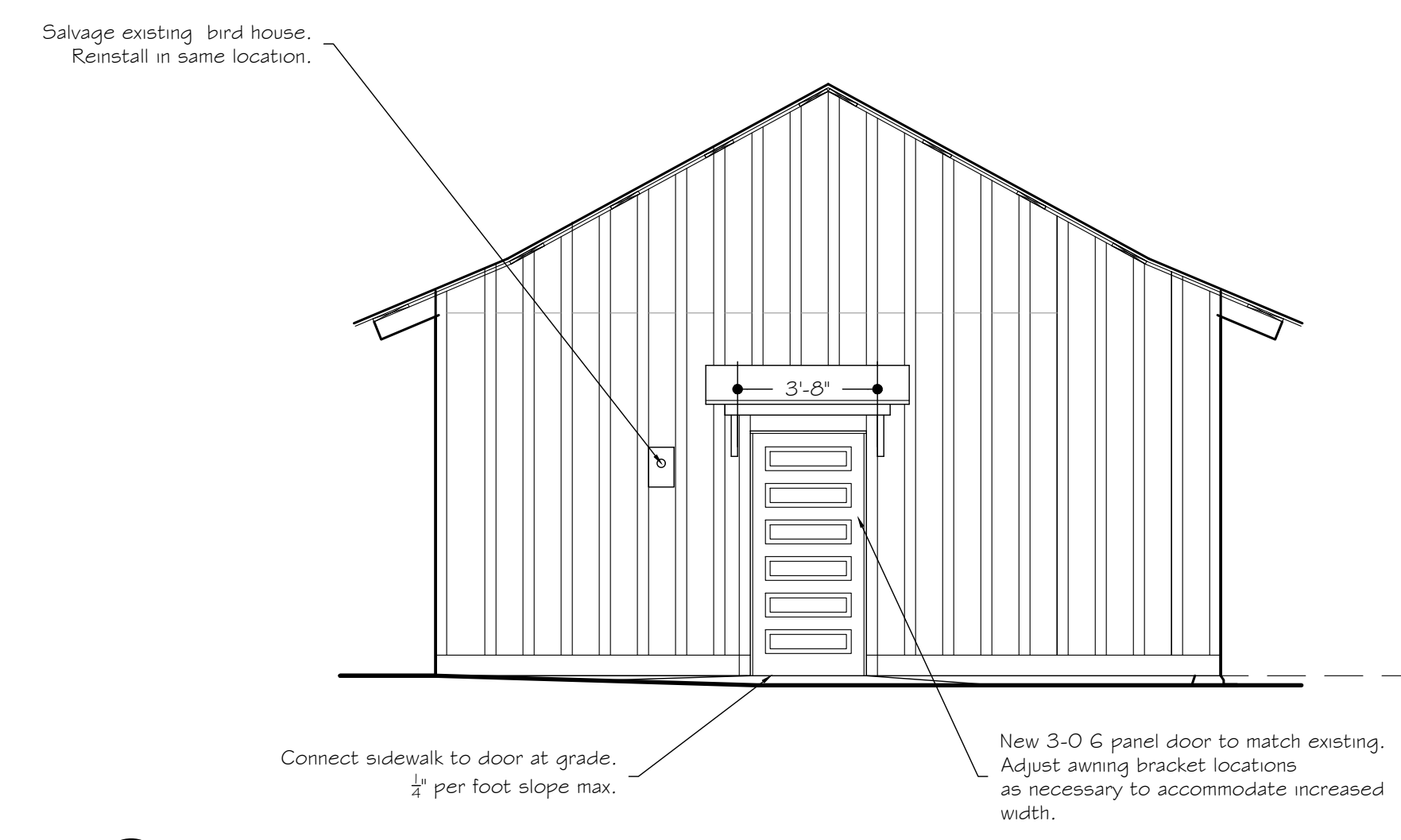
SIDE ELEVATIONS



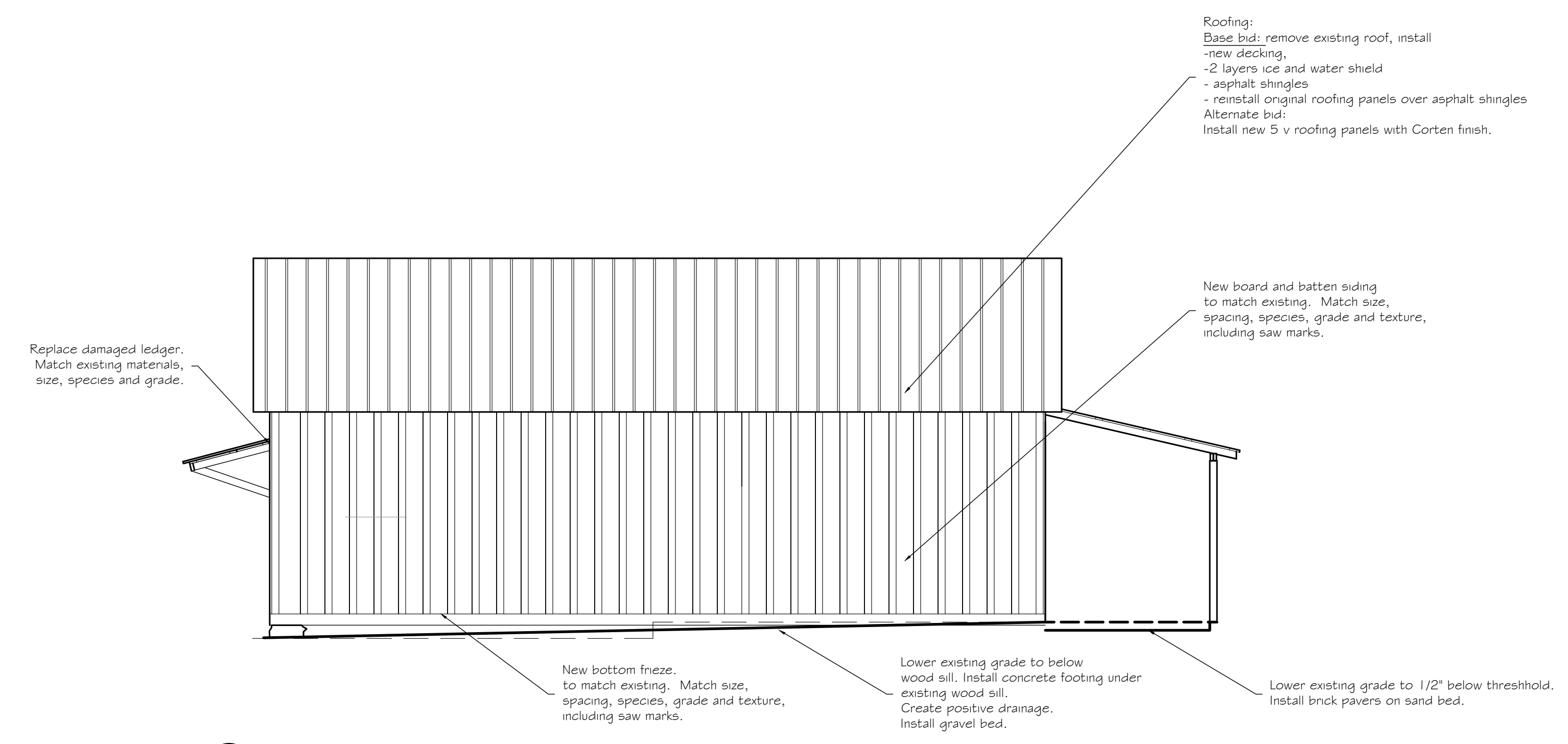
1 Front Elevation
A3.01 1/4" = 1'-0"



2 Side Elevation
A3.01 1/4" = 1'-0"



1 Front Elevation
A3.01 1/4" = 1'-0"



2 Side Elevation
A3.01 1/4" = 1'-0"



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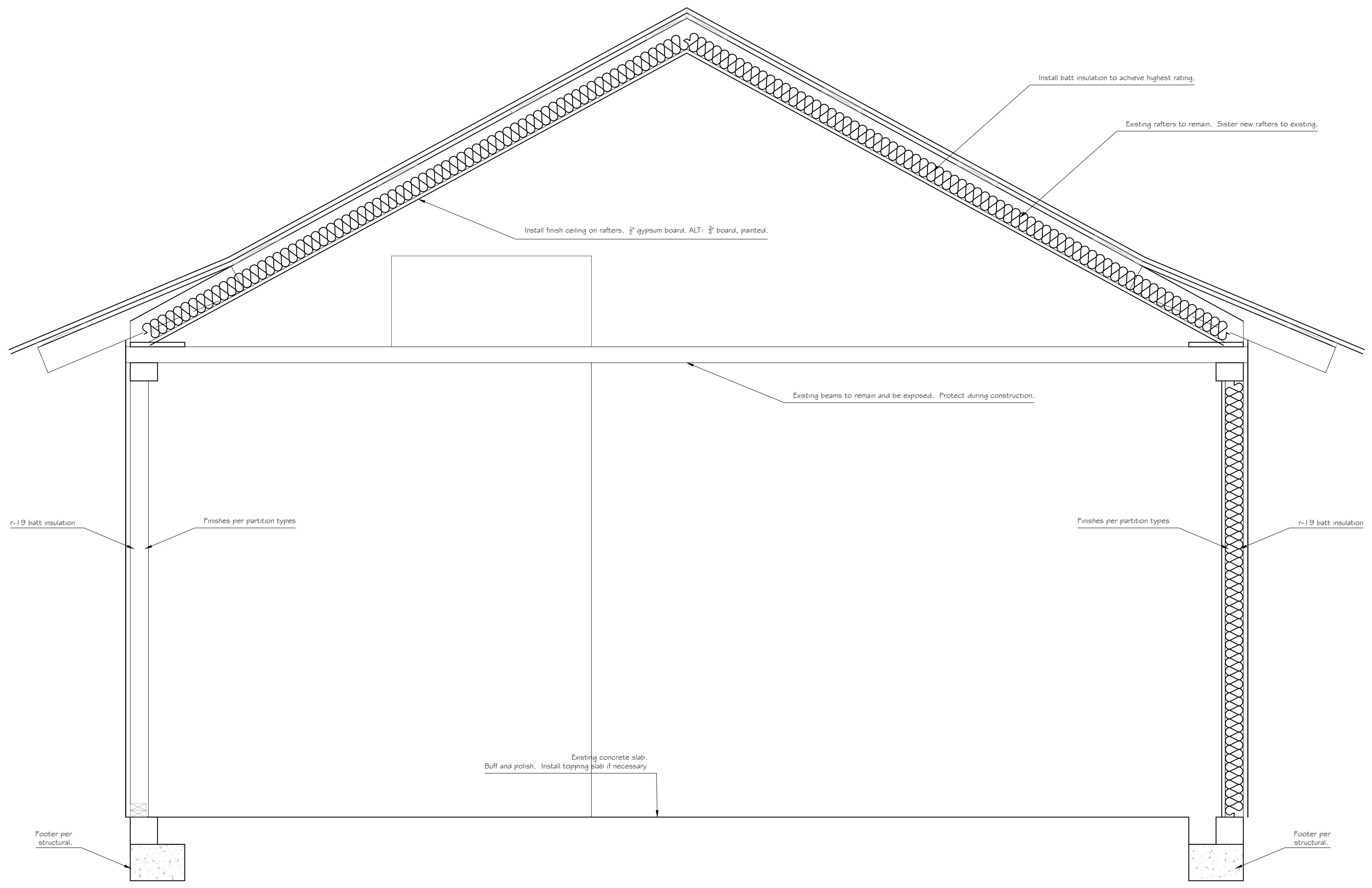


Design Development Drawings For
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A9.01

SECTION



Section
A9.01 1" = 1'-0"



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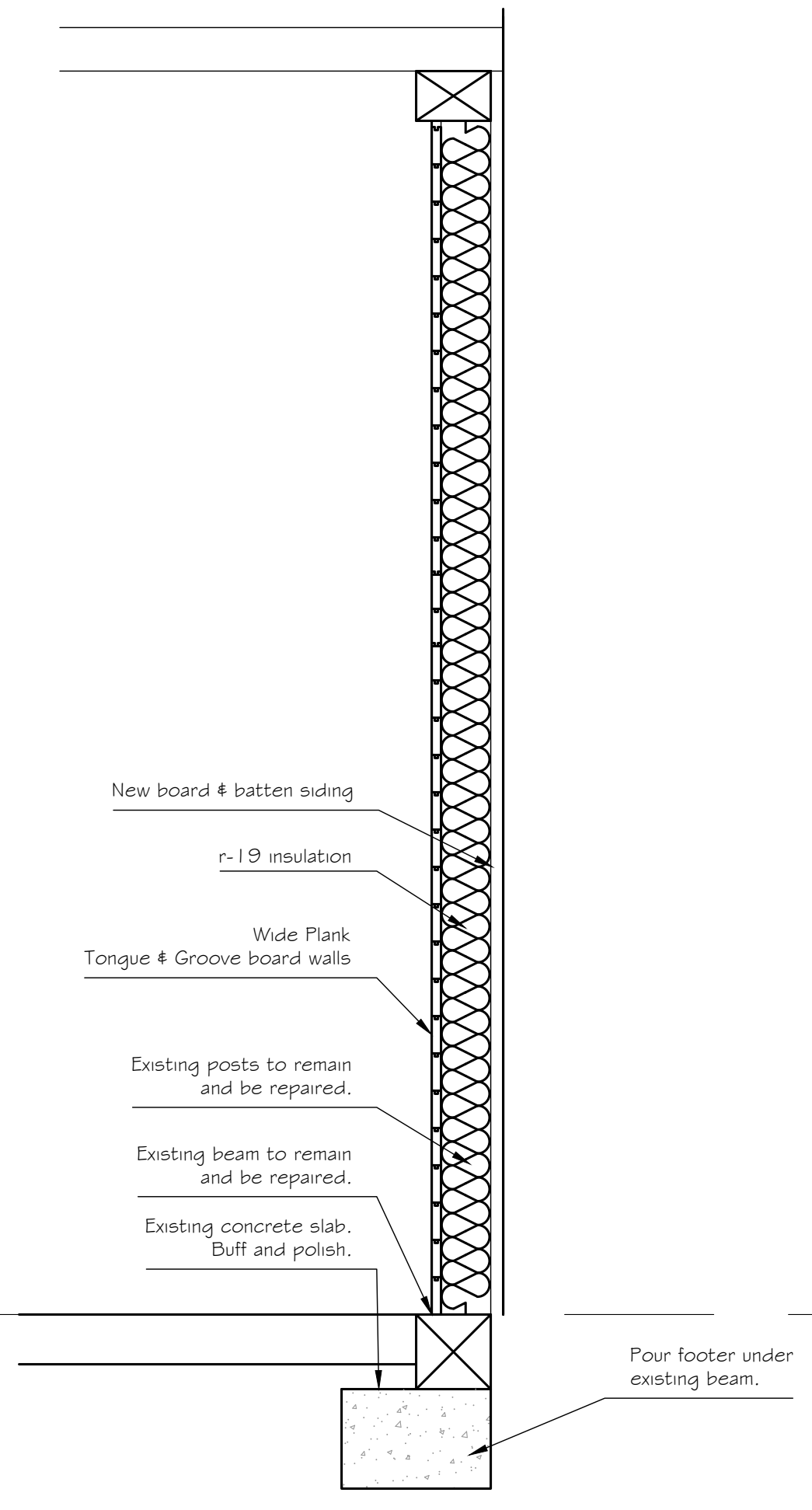


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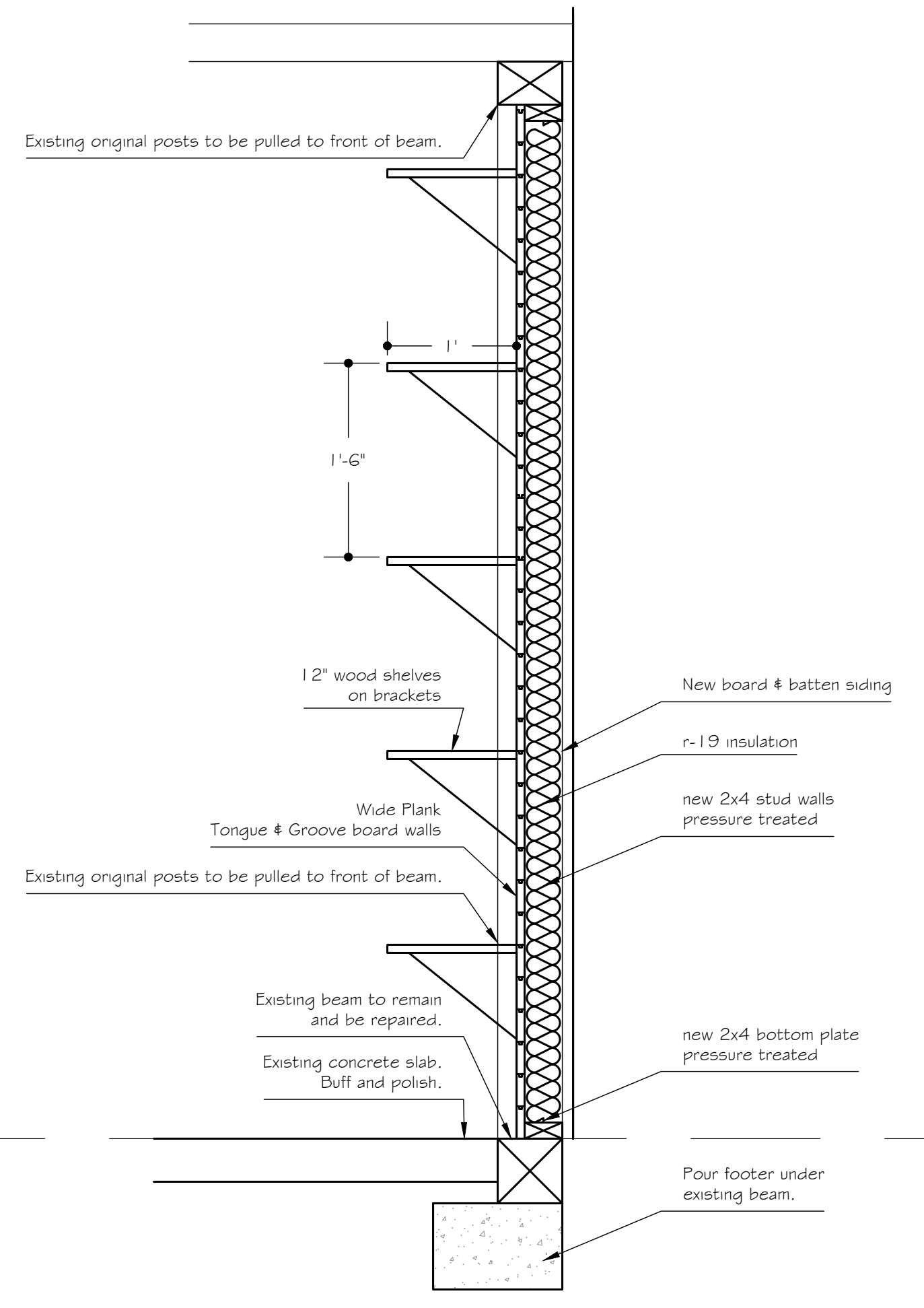
August 2, 2024

A9.02

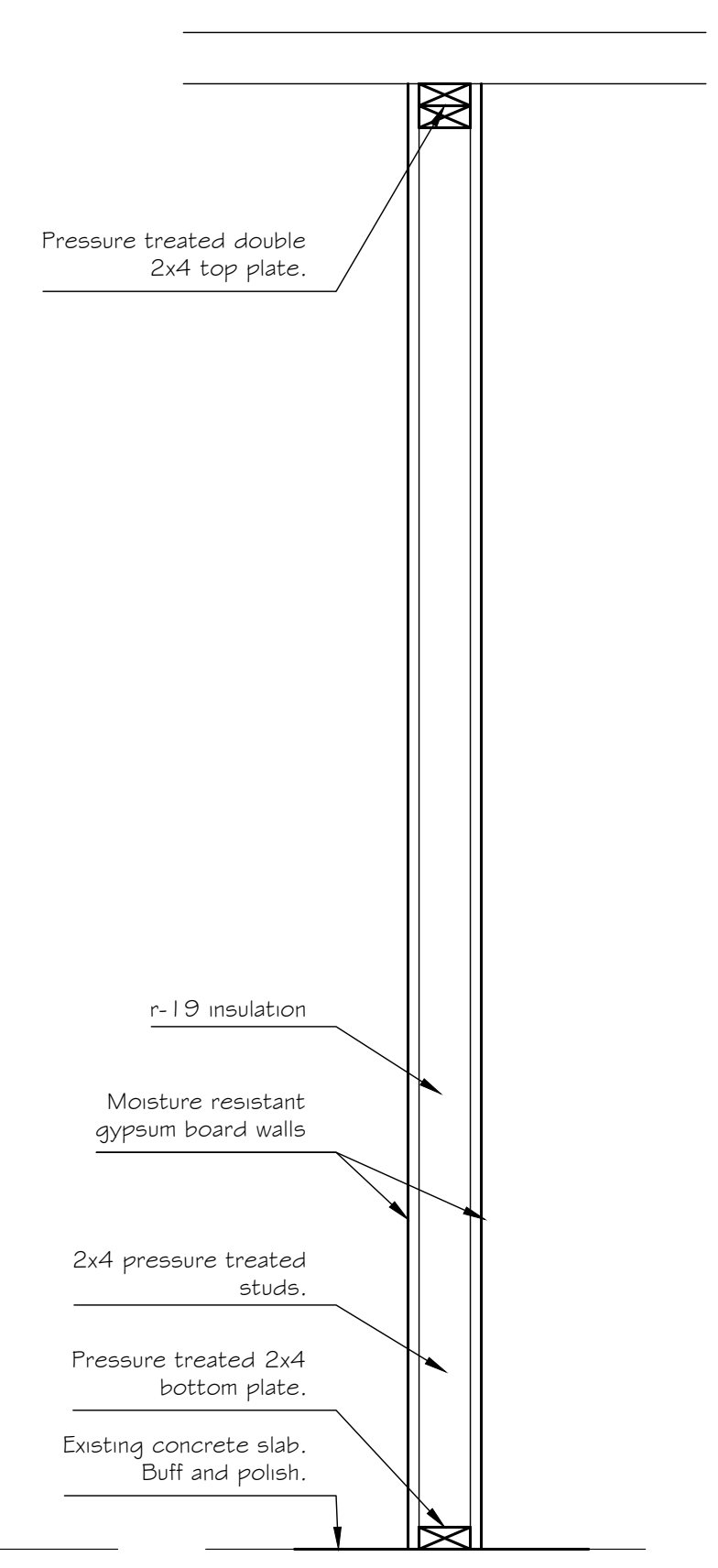
WALL DETAILS



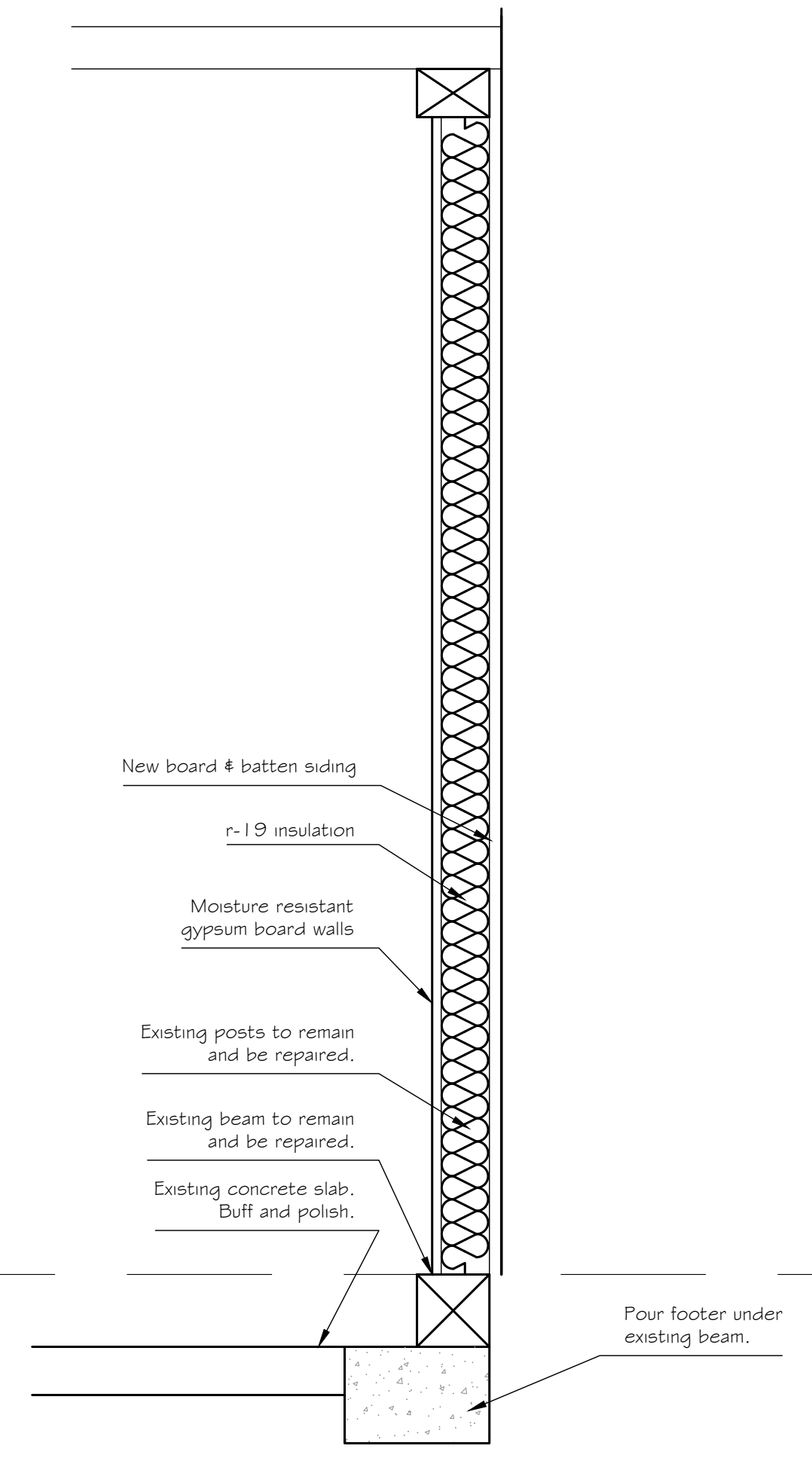
1 PARTITION TYPE 1



2 PARTITION TYPE 2



3 PARTITION TYPE 3



4 PARTITION TYPE 4



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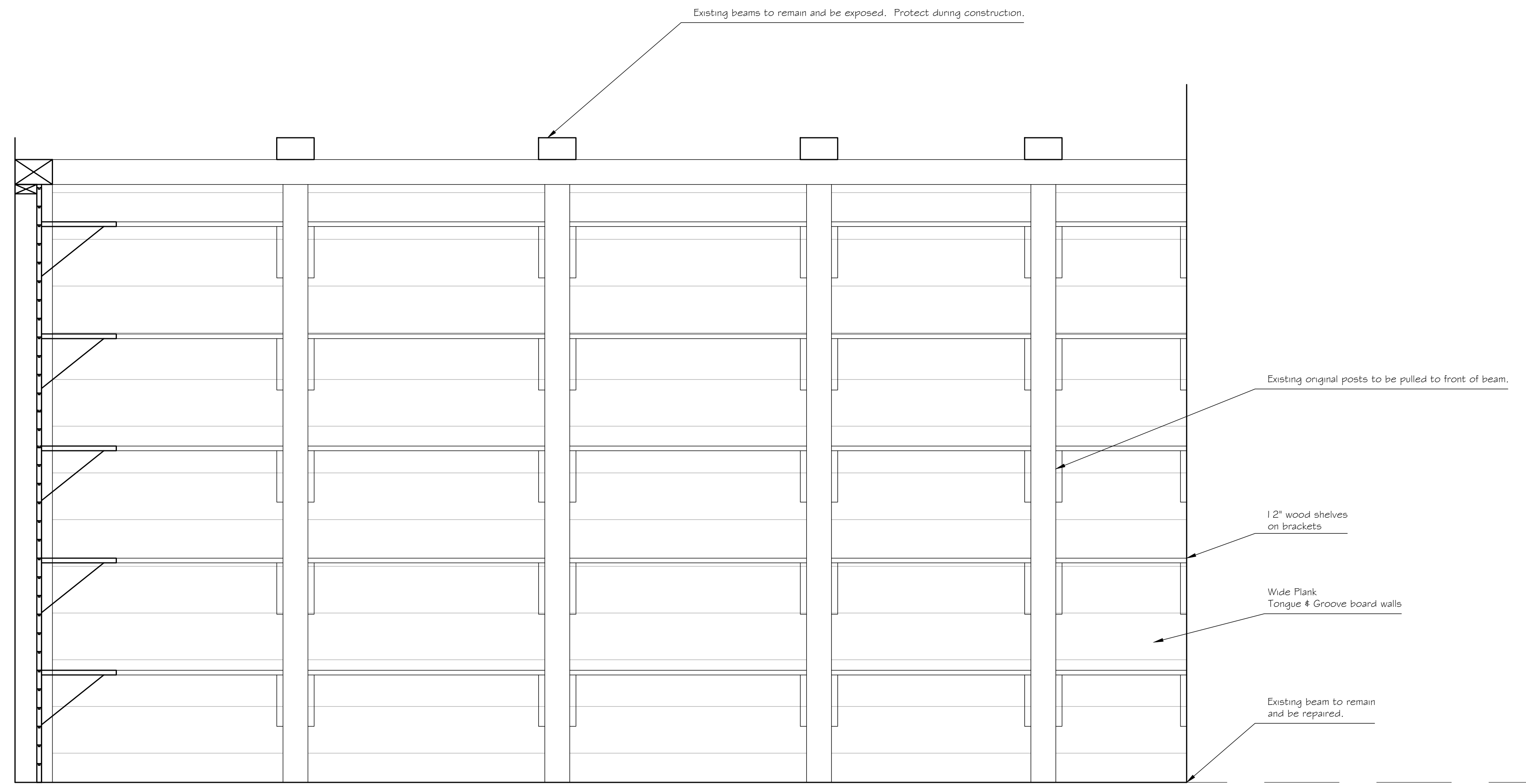


Design Development Drawings For
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A9.03

MILLWORK ELEVATION



1 Millwork Elevation
A9.03 1" = 1'-0"



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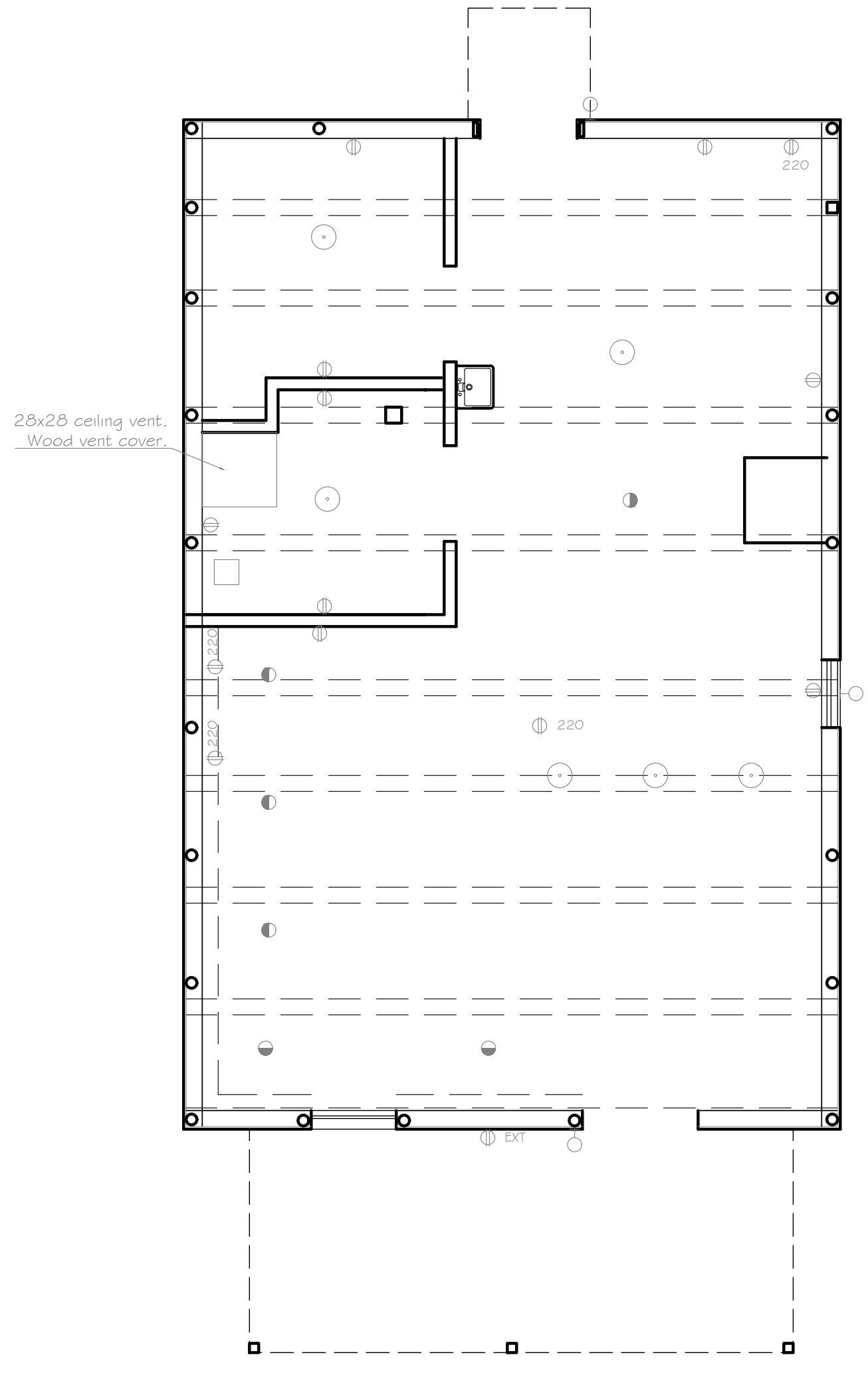
Design Development Drawings For
WINTERVILLE BLACKSMITH SHOP
 Winterville GA

August 2, 2024

E2.01

**ELECTRICAL
FIRST
FLOOR
PLAN**

LEGEND	
	Fan w/ Light Kit
	Flourescent Light w/ two 4' compact flourescent lamps
	Security Flood Light
	Directional Light
	Ceiling Mounted Fixture
	Pendant Ceiling Fixture
	Wall Sconce
	Bathroom Fan
	Duplex Outlet
	Double Duplex Outlet
	Ground Fault Interrupt
	Exterior Outlet w/ Weatherproof Cover
	220 volt
	Switch
	3-Way Switch
	Electrcnal Panel



E2.01 Electrical First Floor Plan
1/4" = 1'-0"

ELECTRICAL GENERAL NOTES

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REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT FIXTURE PLACEMENT AND DIMENSIONS.

REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS.

COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. TYPICAL.

ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND TRIM.

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WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.

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WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED.

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ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.

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MECHANICAL, PLUMBING, FIRE PROTECTION AND OTHER EQUIPMENT ARE SHOWN ON FLOOR PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M, P, FP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT.

GENERAL DIAGRAMMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS. REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES.

RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR CLARITY. ROUTE ALL EXTERIOR LIGHTING RACEWAY WITHIN BUILDING STRUCTURE.

POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL, SHALL BE A MINIMUM OF 8" APART.

TELEVISION AND RADIO ANTENNAS CABLES SHALL HAVE SURGE PROTECTION. GROUND ALL MASTS.

PROVIDE SURGE PROTECTION FOR ELECTRICAL AND TELEPHONE SERVICES.

PROVIDE SPD FOR FIRE ALARM CONTROL PANEL.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV. 15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY SUPPLEMENTAL POWER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONTROL CIRCUITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ALL EQUIPMENT TO ITS INTENDED OPERATIONAL STATUS.

REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW AND TAMPER SWITCHES.

EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E 814 OR E 199.

ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.

LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE DISABLED SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR SURFACE. IF THE REACH OR THE CONTROL IS OVER AN OBSTRUCTION, THE MINIMUM HEIGHT SHALL BE REACHED TO 44 INCHES FOR A FORWARD APPROACH OR 46 INCHES FOR A SIDE APPROACH.

REFER TO LOW VOLTAGE CONSULTANT'S DRAWINGS FOR VOICE, DATA AND CATV OUTLET LOCATIONS. REFER TO LV CONSULTANT'S DRAWINGS FOR ANY ADDITIONAL INFORMATION.

CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED PORTION OF THE LIGHTING CIRCUIT IN THE AREA.

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATED WALL.

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300.19(A).

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE FROM PUBLIC VIEW.

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER.

FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECT OR OWNERS REPRESENTATIVE. THIS SET OF DRAWINGS DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS.

ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS.

PROVIDE PLENUM RATED CABLES IF THE CABLES ARE EXPOSED AND ROUTED THROUGH PLENUM.

FOR ALL FUSES 1,200A OR HIGHER, PROVIDE ARC ENERGY REDUCTION PER NEC 240.67.

WHERE HIGHEST TRIP SETTING IN INSTALLED OVERCURRENT DEVICE IS 1,200A OR HIGHER, CONTRACTOR TO PROVIDE DOCUMENTATION OF CIRCUIT BREAKER(S) LOCATION AND PROVIDE AT LEAST ONE METHOD TO REDUCE CLEARING TIME VIA ENERGY-REDUCING MAINTENANCE SWITCH, INSTANTANEOUS TRIP SETTING, OR OTHER APPROVED METHOD AS LISTED PER NEC 240.87(B).

ABBREVIATIONS

AC	6" ABOVE COUNTER SPACE OR 42" AFF	IG	ISOLATED GROUND
AF	AMP FUSE	ISC	SHORT CIRCUIT CURRENT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AL	ALUMINUM	MTD	MOUNTED
BFC	BELOW FINISHED CEILING	N	NEUTRAL
BKR	BREAKER	NL	NIGHT LIGHT
CND	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CONN	CONNECTED OR CONNECTION	PNL	PANEL
CTB	CABLE TV TERMINAL BACKBOARD	RECP	RECEPTACLE
CU	COPPER	SPD	SURGE PROTECTIVE DEVICE
DN	DOWN	TEL	TELEPHONE
EC	EMPTY CONDUIT	TTB	TELEPHONE TERMINAL BOARD
ELEC	ELECTRICAL	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FAA	FIRE ALARM ANNUCIATOR PANEL	XFMR	TRANSFORMER
G OR GRND	GROUND	UG	UNDERGROUND
GFCI OR GF	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF

LEGEND

SYMBOLS	DESCRIPTION	TYPICAL MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHED FLOOR
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
	SPECIAL RECEPTACLE, CONFIGURATION AND ELECTRICAL CHARACTERISTIC AS NOTED ON DWG	18" AFF
	JUNCTION BOX FLUSH IN WALL WITH COVER, SIZE PER NEC.	18" AFF
	JUNCTION BOX FLUSH IN CEILING WITH COVER, SIZE PER NEC.	IN CEILING
	JUNCTION BOX FLUSH IN FINISHED FLOOR WITH COVER, SIZE PER NEC.	FLUSH WITH FINISHED FLOOR
	SWITCH	42" AFF
	SWITCH - 3 WAY	42" AFF
	SWITCH - WALL MTD, INTEGRAL OCCUPANCY SENSOR	42" AFF
	SWITCH - WALL MTD, LOW VOLTAGE, PILOT LIGHT	42" AFF
	SWITCH - WALL MTD, DIMMING	42" AFF
	SWITCH - CEILING MOUNTED OCCUPANCY SENSOR	IN CEILING
	TV OUTLET	18" AFF
	TELEPHONE OUTLET	18" AFF
	TELEPHONE OUTLET, SUBSCRIPT: F - FIREMAN'S PHONE, H - HOUSE PHONE, P - PAY PHONE	42" AFF OR 6" ABOVE COUNTER TOP
	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
	TELEPHONE / DATA COMBINATION OUTLET	FLUSH WITH FINISHED FLOOR
	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DATA OUTLET	18" AFF
	DATA OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DISCONNECT SWITCH, SUBSCRIPT: AMP / # OF POLES / ENCLOSURE	AS INDICATED ON DWG
	FUSED DISCONNECT SWITCH, SUBSCRIPT: AMP / # OF POLES / ENCLOSURE / FUSE	AS INDICATED ON DWG
	ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE.	SURFACE MOUNTED ON WALL
	EQUIPMENT AS NOTED ON DRAWING.	SURFACE MOUNTED ON WALL
	MOTOR.	
	HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION, WIRE TICKS - (1) NEUTRAL, (3) HOT, (4) (1) GROUND.	
	SMOKE DETECTOR, CEILING / WALL MOUNTED	
	HEAT DETECTOR, CEILING/WALL MOUNTED	
	FIRE ALARM NOTIFICATION DEVICE, AUDIO AND VISUAL.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE, AUDIO.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE, VISUAL.	80" AFF
	FIRE ALARM INITIATION DEVICE, PULL STATION.	42" AFF



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Client Review Drawings For
WINTERVILLE BLACKSMITH SHOP
 Winterville GA

July 31, 2024

EO.01

GENERAL

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POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL, SHALL BE A MINIMUM OF 8" APART.

TELEVISION AND RADIO ANTENNAS CABLES SHALL HAVE SURGE PROTECTION. GROUND ALL MASTS.

PROVIDE SURGE PROTECTION FOR ELECTRICAL AND TELEPHONE SERVICES.

PROVIDE SPD FOR FIRE ALARM CONTROL PANEL.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV. 15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY SUPPLEMENTAL POWER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONTROL CIRCUITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ALL EQUIPMENT TO ITS INTENDED OPERATIONAL STATUS.

REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW AND TAMPER SWITCHES.

EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E 814 OR E 199.

ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.

LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE DISABLED SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR SURFACE. IF THE REACH OR THE CONTROL IS OVER AN OBSTRUCTION, THE MINIMUM HEIGHT SHALL BE REACHED TO 44 INCHES FOR A FORWARD APPROACH OR 46 INCHES FOR A SIDE APPROACH.

REFER TO LOW VOLTAGE CONSULTANTS DRAWINGS FOR VOICE, DATA AND CATV OUTLET LOCATIONS. REFER TO LV CONSULTANTS DRAWINGS FOR ANY ADDITIONAL INFORMATION.

CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED PORTION OF THE LIGHTING CIRCUIT IN THE AREA.

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATED WALL.

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300.19(A).

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE FROM PUBLIC VIEW.

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER.

FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECT OR OWNER'S REPRESENTATIVE. THIS SET OF DRAWINGS DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS.

ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS.

PROVIDE PLENUM RATED CABLES IF THE CABLES ARE EXPOSED AND ROUTED THROUGH PLENUM.

FOR ALL FUSES 1,200A OR HIGHER, PROVIDE ARC ENERGY REDUCTION PER NEC 240.67.

WHERE HIGHEST TRIP SETTING IN INSTALLED OVERCURRENT DEVICE IS 1,200A OR HIGHER, CONTRACTOR TO PROVIDE DOCUMENTATION OF CIRCUIT BREAKER(S) LOCATION AND PROVIDE AT LEAST ONE METHOD TO REDUCE CLEARING TIME VIA ENERGY-REDUCING MAINTENANCE SWITCH, INSTANTANEOUS TRIP SETTING, OR OTHER APPROVED METHOD AS LISTED PER NEC 240.87(B).

ABBREVIATIONS

AC	6" ABOVE COUNTER SPACE OR 42" AFF	IG	ISOLATED GROUND
AF	AMP FUSE	ISC	SHORT CIRCUIT CURRENT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AL	ALUMINUM	MTD	MOUNTED
BFC	BELOW FINISHED CEILING	N	NEUTRAL
BKR	BREAKER	NL	NIGHT LIGHT
CND	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CONN	CONNECTED OR CONNECTION	PNL	PANEL
CTB	CABLE TV TERMINAL BACKBOARD	RECP	RECEPTACLE
CU	COPPER	SPD	SURGE PROTECTIVE DEVICE
DN	DOWN	TEL	TELEPHONE
EC	EMPTY CONDUIT	TTB	TELEPHONE TERMINAL BOARD
ELEC	ELECTRICAL	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR PANEL	XFMR	TRANSFORMER
G OR GRND	GROUND	UG	UNDERGROUND
GFCI OR GF	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF

LEGEND

SYMBOLS	DESCRIPTION	TYPICAL MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHED FLOOR
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
	SPECIAL RECEPTACLE, CONFIGURATION AND ELECTRICAL CHARACTERISTIC AS NOTED ON DWG	18" AFF
	JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE PER NEC.	18" AFF
	JUNCTION BOX FLUSH IN CEILING WITH COVER. SIZE PER NEC.	IN CEILING
	JUNCTION BOX FLUSH IN FINISHED FLOOR WITH COVER. SIZE PER NEC.	FLUSH WITH FINISHED FLOOR
	SWITCH	42" AFF
	SWITCH - 3 WAY	42" AFF
	SWITCH - WALL MTD, INTEGRAL OCCUPANCY SENSOR	42" AFF
	SWITCH - WALL MTD, LOW VOLTAGE, PILOT LIGHT	42" AFF
	SWITCH - WALL MTD, DIMMING	42" AFF
	SWITCH - CEILING MOUNTED OCCUPANCY SENSOR	IN CEILING
	TV OUTLET	18" AFF
	TELEPHONE OUTLET	18" AFF
	TELEPHONE OUTLET. SUBSCRIPT: F - FIREMAN'S PHONE, H - HOUSE PHONE, P - PAY PHONE	42" AFF OR 6" ABOVE COUNTER TOP
	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
	TELEPHONE / DATA COMBINATION OUTLET	FLUSH WITH FINISHED FLOOR
	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DATA OUTLET	18" AFF
	DATA OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE	AS INDICATED ON DWG
	FUSED DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE / FUSE	AS INDICATED ON DWG
	ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE.	SURFACE MOUNTED ON WALL
	EQUIPMENT AS NOTED ON DRAWING.	SURFACE MOUNTED ON WALL
	MOTOR	
	HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (1) NEUTRAL, (3) HOT III & (1) GROUND.	
	SMOKE DETECTOR. CEILING / WALL MOUNTED	
	HEAT DETECTOR. CEILING/WALL MOUNTED	
	FIRE ALARM NOTIFICATION DEVICE. AUDIO AND VISUAL.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. AUDIO.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. VISUAL.	80" AFF
	FIRE ALARM INITIATION DEVICE. PULL STATION.	42" AFF

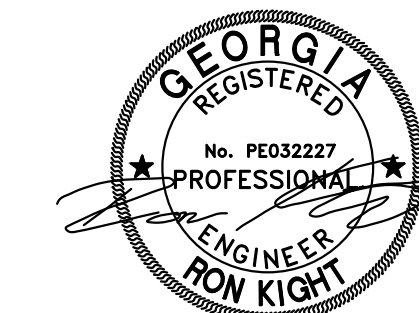


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Client Review Drawings For
WINTERVILLE BLACKSMITH SHOP
Winterville GA

July 31, 2024

EO.01

GENERAL

SPECIFICATIONS

GENERAL

CONTRACTOR SHALL REFER TO ALL RELATED DOCUMENTS, ARCHITECTURAL, STRUCTURAL, CIVIL AND MEP DRAWINGS, AND FULLY UNDERSTAND THE SCOPE OF WORK AND CONDITION OF CONSTRUCTION.

THE WORK UNDER THIS SPECIFICATIONS AND DRAWINGS SHALL INCLUDE ALL LABOR.

ALL INSTALLATION OF DEVICES AND CONNECTION OF CONDUCTORS SHALL BE PERFORMED BY LICENSED AND SKILLED ELECTRICIAN OR JOURNEYMAN.

ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER. IF ANY PORTION OF THE WORK IS FOUND UNSATISFACTORY BY THE OWNER, IT SHALL BE REMOVED AND REINSTALLED WITHOUT DELAY AT NO COST TO THE OWNER.

THE WORK INCLUDES, BUT NOT LIMITED TO:
THE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.
ROUGH-IN AND FINAL CONNECTIONS TO ALL DEVICES REQUIRING ELECTRICAL POWER, INCLUDING OWNER PROVIDED EQUIPMENT.
LIGHTING CONTROL
LIGHTING FIXTURES

EACH CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY THE REGULATORY AUTHORITIES. ALL FEES RELATED TO OBTAINING PERMITS AND INSPECTION SHALL BE PAID FOR BY EACH CONTRACTOR IN HIS TRADE.

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH LOCAL, COUNTY, STATE, AND NATIONAL ELECTRICAL CODE 2020, SPECIFICATIONS, UTILITY COMPANY REQUIREMENTS AND ALL INDUSTRY STANDARDS.

ANY DIFFERENCES IN ABOVE MENTIONED REQUIREMENTS, THE MOST STERN SHALL OVERRULE ALL OTHERS.

IN ADDITION TO ABOVE MENTIONED CODES AND SPECIFICATIONS, THE FOLLOWING INDUSTRY STANDARDS SHALL BE COMPLIED IF THEY ARE MORE STRINGENT.

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ASHRAE 90.1
NFFA
NEMA
UL
ADA

THE MANUFACTURERS PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE, PROTECTION, INSTALLATION AND WIRING OF ALL EQUIPMENT AND MATERIAL.

THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM. THE SYSTEMS SHALL INCLUDE BUT ARE NOT LIMITED TO THE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS SHALL BE DETERMINED BY REFERENCE TO THE GENERAL PLANS AND MEASUREMENTS AT THE BUILDING AND IN COOPERATION WITH THE OTHER SUBCONTRACTORS, AND IN ALL CASES, SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE OWNER RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF ANY PART OF THIS WORK WITHOUT ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL SEEK APPROVAL FROM THE OWNER FOR ANY CHANGES TO THE SPECIFICATIONS OR CONTRACT DOCUMENTS.

ANY EXCEPTIONS, INCONSISTENCIES AND CONFLICTS IN CONTRACT DOCUMENTS, SPECIFICATIONS AND CONTRACT DOCUMENTS BY OTHER TRADE SHALL BE BROUGHT TO ATTENTION TO THE OWNER PRIOR TO BID.

CONTRACTOR SHALL COORDINATE AND VERIFY THE WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADE PRIOR TO ANY FABRICATIONS OR INSTALLATION. IF THE LAYOUT OF THE DEVICES ON DRAWINGS ARE IMPRACTICAL TO THE CONDITION IN FIELD, CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY PRIOR TO ANY FABRICATION OR INSTALLATION.

ELECTRICAL DEVICES ARE INDICATED ON DRAWINGS AT APPROXIMATE LOCATIONS. THE OWNER RESERVE THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS WITHOUT ADDITIONAL COSTS.

THE LINES INDICATING BRANCH CIRCUITS DO NOT REPRESENT THE ROUTING OF ELECTRICAL CONDUITS. THEY INDICATE THE LAYOUT AND CONTROL OF CIRCUITS.

PRODUCTS AND WORK

MATERIALS FURNISHED SHALL BE NEW AND BY STANDARD MANUFACTURERS AND MUST CONFORM TO THE NATIONAL BOARD OF FIRE UNDERWRITERS REQUIREMENTS AND BEAR THE UNDERWRITERS LABORATORIES' SEAL OF APPROVAL.

LISTED MANUFACTURERS, MODELS, OR CATALOGUE NUMBERS IN PART OR ALL SHALL ENTAIL TO INCLUDE THE PUBLISHED MANUFACTURERS DESCRIPTION AND SPECIFICATION.

CONTRACTOR SHALL NOT INTERPRET THAT THE LISTED MANUFACTURERS IN SPECIFICATIONS OR DRAWINGS TO EXCLUDE ALL OTHER MANUFACTURERS.

CONTRACTOR SHALL MAKE CERTAIN THAT ALL EQUIPMENT FIT IN THE SPACE DESIGNATED AND DESIGNED FOR THE SURROUNDINGS IT OCCUPIES.

COMPLETE CATALOGUE ILLUSTRATION AND DESCRIPTIONS OF ALL EQUIPMENT SHALL BE SUBMITTED TO THE OWNER PRIOR TO ORDERING ANY EQUIPMENT.

ALL HORIZONTAL RUNS OF CONDUITS SHALL BE SUPPORTED BY MEANS OF APPROVED HANGER FROM THE STRUCTURAL CEILING.

COORDINATE THE WORK UNDER THIS SECTION WITH ALL OTHER TRADES.

CONDUITS AND RACEWAYS:

MANUFACTURERS: SQUARE D, B-LINE, ALLIED TUBE & CONDUIT, HOFFMAN, CARLON ELECTRICAL, WIREMOLD.

OUTDOORS EXPOSED: RIGID STEEL.
OUTDOORS CONCEALED ABOVE GROUND: RIGID STEEL.
OUTDOORS UNDERGROUND: TYPE EPC-40-FVC
OUTDOORS CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND MOTOR DRIVEN EQUIPMENT): LFMC.
BOXES AND ENCLOSURES ABOVE GROUND: NEMA 3R UNLESS NOTED OTHERWISE ON PLANS.
INDOORS EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE: EMT. INDOORS EXPOSED NOT SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT.
INDOORS EXPOSED SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT. INDOORS CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.
INDOORS CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
INDOORS DAMP OR WET LOCATIONS: IMC.
INDOORS LOW-VOLTAGE CABLES: EMT.

SPECIFICATIONS

CONDUCTORS:

COPPER CONDUCTORS #10 AND SMALLER: LABELED PER UL 83, TYPE THHN/THWN, SOLID COPPER, 600 VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA. METAL CLAD (TYPE MC) CABLE WHERE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330.

COPPER CONDUCTORS #8 OR LARGER: LABELED PER UL 83, TYPE THHN/THWN, STRANDED COPPER, 600VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA.

ACCEPTABLE MANUFACTURERS OF CONDUCTORS:

PIRELLI, SOUTHWIRE, AETNA, REPUBLIC, AFC, ENCORE WIRE, KERITE

CONTRACTOR MAY USE ALUMINUM CONDUCTORS FOR #4 AWG OR LARGER IN THE PLACE OF COPPER CONDUCTORS. CONTRACTOR SHALL REFER TO NEC TABLE 310-16 FOR EQUIVALENT AMPACITY AND SHALL COMPENSATE FOR VOLTAGE DROP.

CONTRACTOR SHALL MAKE ADEQUATE ADJUSTMENT TO CONDUIT SIZES INDICATED SHOULD ALTERNATIVE CONDUCTOR INSULATION OR MATERIAL BE UTILIZED.

MOLDED CASE CIRCUIT BREAKER:

INCLUDE SCHEDULE OF ALL FUSES, RATINGS, TIME COORDINATION DATA, MANUFACTURERS STANDARD DATA AND TIME-CURRENT CURVES. ALL DATA SHALL BE BASED ON TEST OF STANDARD PRODUCTS.

APPROVED MANUFACTURERS:

GENERAL ELECTRIC
CUTLER HAMMER
SQUARE D
SIEMENS

THERMAL-MAGNETIC BOLT-IN TYPE CIRCUIT BREAKERS WITH QUICK-MAKE, QUICK-BREAK CONTACTS; TRIP-FREE OPERATION WITH OVER-THE-CENTER TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

MULTI-POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP AND COMMON RESET WITH A SINGLE TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

TRIP RATINGS SHALL BE MOLDED ON THE HANDLE OR FACE OF BREAKER.

BREAKER TERMINALS SHALL BE RATED TO ACCOMMODATE A MINIMUM OF 75 DEGREE C. CONDUCTORS.

BREAKER SHALL BE RATED FOR MOUNTING AND OPERATION IN ANY POSITION; SHALL ACCOMMODATE AND MATCH THE TYPE OF TERMINATIONS REQUIRED.

SINGLE POLE BREAKERS RATED 15 AND 20 AMPERES SHALL BE UL LABELED AS "SWITCHING BREAKERS" AT THE APPLIED CIRCUIT VOLTAGE.

MULTI-POLE BREAKERS RATED 100 AMPERES AND LARGER SHALL BE MOLDED CASE THERMAL-MAGNETIC BOLT-IN TYPE BREAKER WITH ADJUSTABLE INSTANTANEOUS TRIP.

OVERCURRENT DEVICES RATED 1,000 AMPERES AND LARGER, SERVING LOADS GREATER THAN 150 VOLTS TO GROUND SHALL BE EQUIPPED WITH GROUND FAULT PROTECTION OF EQUIPMENT (GFPE) AS REQUIRED BY NEC ARTICLES 210.13 AND 230.95.

LIGHTING FIXTURE

SUBMITTAL:
SCHEDULE BY TYPE DESIGNATION ALL LIGHTING FIXTURES, EACH COMPLETE WITH DATA SHEET WITH COMPLETE PHYSICAL, ELECTRICAL AND LIGHTING CHARACTERISTICS, LAMP TYPE AND LAMP DATA.

REFER TO THE "LIGHTING FIXTURE SCHEDULE" IN THE DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTIONS AND MANUFACTURER TYPES.

PROVIDE LAMPS FOR EACH FIXTURE OF QUANTITY, TYPE AND COLOR AS LISTED IN LIGHTING FIXTURE SCHEDULE. GE, SYLVANIA OR PHILIPS ARE ACCEPTABLE.

EACH LIGHTING FIXTURE SHALL BE UL LABELED FOR PROPER OPERATION IN THE TYPE OF CEILING CONSTRUCTION AND FOR THE MOUNTING ARRANGEMENT ON/IN WHICH IT IS INSTALLED.

FIELD VERIFY ACTUAL CEILING SLOPE FOR FIXTURES INSTALLED IN SAME AND ACTUAL FIELD DIMENSIONS AND ANGLES OF CONSTRUCTION FOR ANY FIXTURE CONFORMING THE SHAPE AND LENGTH OF SAME, FOR COORDINATION OF FIXTURE CONSTRUCTION.

PANELBOARD

SUBMITTAL:
INCLUDE SCHEDULE OF EACH PANELBOARD WITH ALL DEVICES AND COMPLETE WITH PHYSICAL AND ELECTRICAL DATA AND WITH RATINGS FOR EACH COMPONENT INCLUDING BREAKER/FUSE OVERLAY CURVES.

LABELED PER UL #67 AND #50, CONFORM WITH NEMA #250 AND FB1, NFFA #70-384 AND 70-373.

ALL JUNCTION BOXES SHALL BE LABELED WITH PANEL AND CIRCUIT DESIGNATION.

PROVIDE TYPED CIRCUIT DIRECTORY WITH EACH CIRCUIT SERVING DEVICES AND AREA IT'S SERVING.

APPROVED MANUFACTURERS:

GENERAL ELECTRIC
CUTLER HAMMER
SQUARE D
SIEMENS

LIGHTING CONTROL

TIME SWITCHES:
SOLID STATE, PROGRAMMABLE, WITH ALPHANUMERIC DISPLAY; COMPLYING WITH UL 917. 20-A BALLAST LOAD, 120/240VAC.

TWO ON-OFF SET POINTS ON A 24-HOUR SCHEDULE AND ANNUAL HOLIDAY SCHEDULE THAT OVERRIDES THE WEEKLY OPERATION ON HOLIDAYS.

ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR ON-OFF FUNCTION OF A PROGRAM.

BATTERY BACKUP FOR NOT LESS THAN SEVEN DAYS RESERVE TO MAINTAIN SCHEDULES AND TIME CLOCK.

INDOOR OCCUPANCY SENSORS:
WALL OR CEILING MOUNTED SOLID-STATE INDOOR OCCUPANCY SENSORS WITH A SEPARATE POWER PACK.

ADJUSTABLE TIME-DELAY OVER A RANGE OF 1 TO 30 MINUTES.

SENSOR OUTPUT: CONTACTS RATED TO OPERATE THE CONNECTED RELAY, COMPLYING WITH UL773A. SENSOR IS POWERED FROM POWER PACK.

POWER PACK: DRY CONTACTS RATED FOR 20-A BALLAST LOAD AT 120 OR 277 VAC. AUTOMATIC LIGHT-LEVEL SENSOR: ADJUSTABLE FROM 2 TO 200 FC (21.5 TO 2152 LUX); TURN LIGHTS OFF WHEN SELECTED LIGHTING LEVEL IS PRESENT.

DUAL SENSOR TYPE: DETECT OCCUPANCY AREA USING PIR (PASSIVE INFRA-RED) AND ULTRASONIC DETECTION METHOD.

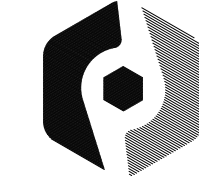
GROUNDING AND BONDING

ALL GROUNDING AND BONDING SHALL CONFORM TO NEC ARTICLE 250.

COPPER WIRE OR CABLE INSULATED FOR 600V UNLESS REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.

INSTALL SOLID CONDUCTOR FOR #8 AWG AND SMALLER AND STRANDED CONDUCTORS FOR #6 OR LARGER.

INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS FOR ALL EQUIPMENT.



**PROFICIENT
ENGINEERING**
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PROJECT # 124311



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Client Review Drawings For

WINTERVILLE BLACKSMITH SHOP
Winterville GA

July 31, 2024

EO.02

SPECIFICATIONS



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Client Review Drawings For

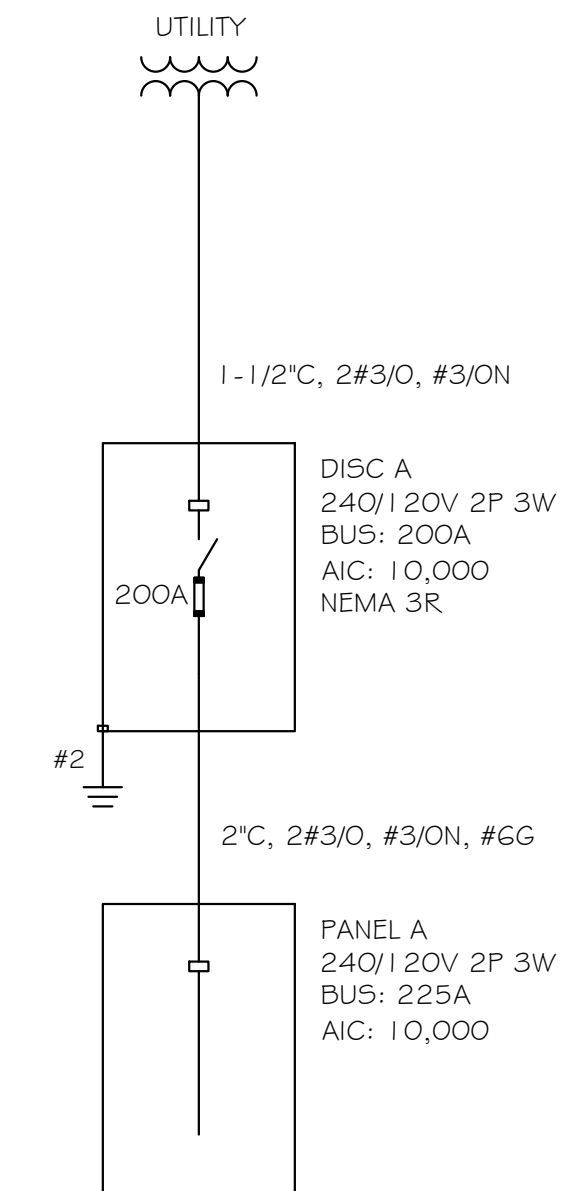
WINTERVILLE BLACKSMITH SHOP
 Winterville GA

July 31, 2024

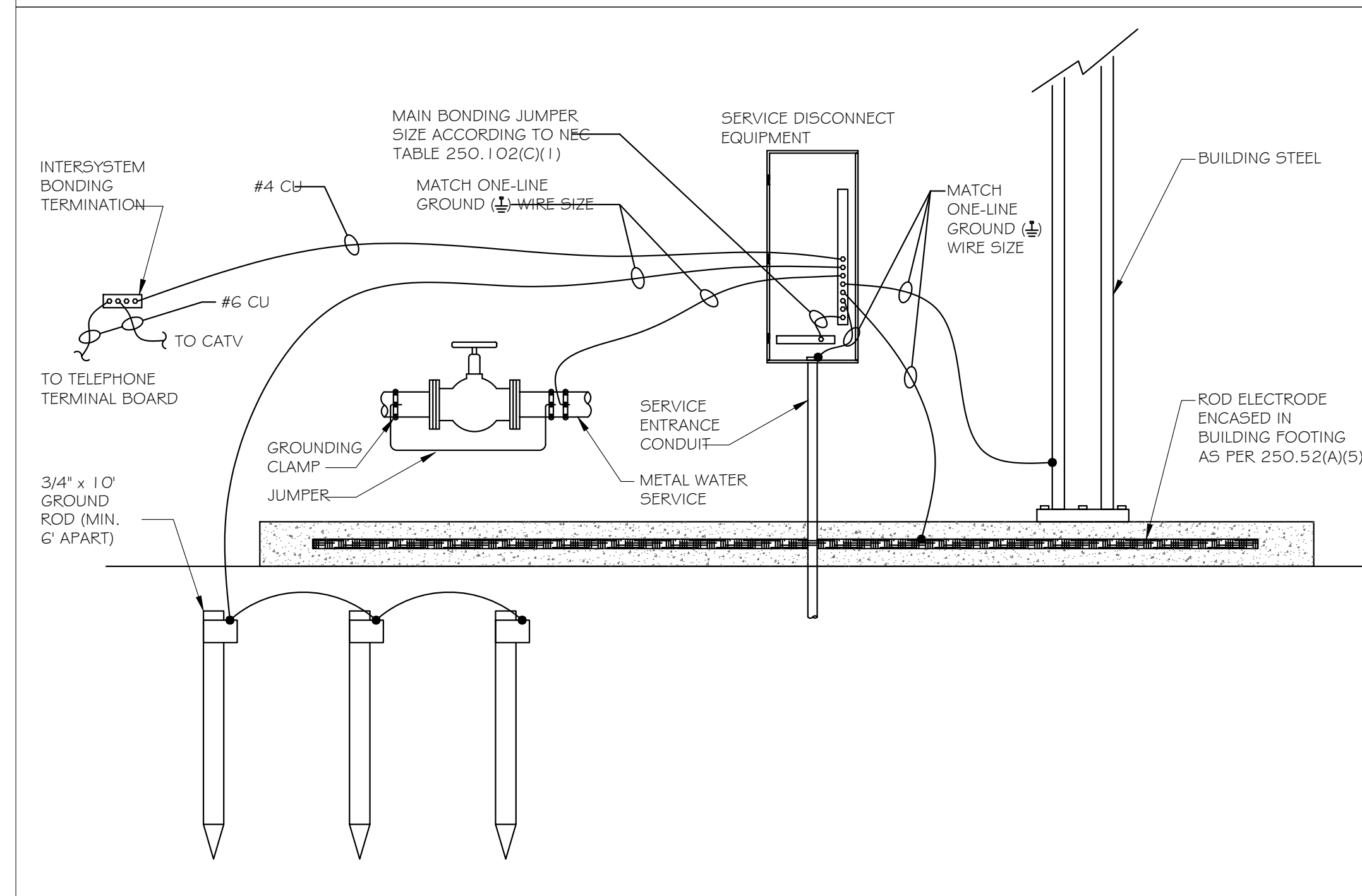
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SCHEDULES

CALLOUT	SYMBOL	VOLTS	KVA	BREAKER	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION
EF-A		120V 1P 2W	0.1	20/1	A-1	1/2"C, 1#12, #12N, #12G	
MFCU-1		240/120V 2P 3W	0.1	30/2	A-6,8	1/2"C, 2#10, #10N, #10G	FED FROM MHP-1
MHP-1		240/120V 2P 3W	4.8	30/2	A-6,8	1/2"C, 2#10, #10N, #10G	30A/2P/NEMA 3R
WH-1		240/120V 2P 3W	10	60/2	A-2,4	3/4"C, 2#6, #6N, #10G	60A/2P/NEMA 1



GROUNDING AND BONDING DETAIL



Panel		ROOM	SURFACE	VOLTS	240/120V 2P 3W	AIC	10,000
A		MOUNTING	DISC A	BUS AMPS	225	MAIN BKR	MLO
		FED FROM	DISC A	NEUTRAL	100%	LUGS	STANDARD
NOTE							
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.8	EF-A, LIGHTING	a 2	60/2	10.0	WH-1
3	20/1	1.1	RECEPTACLE	b 4			
5	20/1	0.7	RECEPTACLE	a 6	30/2	4.9	MFCU-1, MHP-1
7	20/1	0.9	FREEZER	b 8			
9	20/1	0.3	REF	a 10	20/1	0.0	SPACE
11	20/1	0.3	REF	b 12	20/1	0.0	SPACE
13	20/1	0.5	DISPLAY	a 14	20/1	0.0	SPACE
15	20/1	0.5	DISPLAY	b 16	20/1	0.0	SPACE
17	20/1	0.5	DISPLAY	a 18	20/1	0.0	SPACE
19	20/1	0.2	RECEPTACLE	b 20	20/1	0.0	SPACE
21	20/1	0.0	SPACE	a 22	20/1	0.0	SPACE
23	20/1	0.0	SPACE	b 24	20/1	0.0	SPACE
25	20/1	0.0	SPACE	a 26	20/1	0.0	SPACE
27	20/1	0.0	SPACE	b 28	20/1	0.0	SPACE
29	20/1	0.0	SPACE	a 30	20/1	0.0	SPACE
31	20/1	0.0	SPACE	b 32	20/1	0.0	SPACE
33	20/1	0.0	SPACE	a 34	20/1	0.0	SPACE
35	20/1	0.0	SPACE	b 36	20/1	0.0	SPACE
37	20/1	0.0	SPACE	a 38	20/1	0.0	SPACE
39	20/1	0.0	SPACE	b 40	20/1	0.0	SPACE
41	20/1	0.0	SPACE	a 42	20/1	0.0	SPACE
		CONN KVA	CALC KVA			CONN KVA	CALC KVA
LIGHTING		0.7	0.9 (125%)	MOTORS		0.1	0.1 (100%)
LARGEST MOTOR		0.1	0.0 (25%)	RECEPTACLES		4.9	4.9 (50% > 10)
				CONTINUOUS		14.9	18.6 (125%)
				TOTAL LOAD			24.5
				BALANCED LOAD			102.2
				PHASE A			99.4%
				PHASE B			101%

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: New Construction
 Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Retail	591	1.26	745
Total Allowed Watts =			745

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Retail				
LED-D: 6" LED RECESSED DIRECTIONAL WAL: Other:	1	6	10	62
LED-P: DECORATIVE PENDANT: Other:	1	3	100	300
LED-F: DECORATIVE SEMI-FLUSH CEILING L: Other:	1	2	120	240
LED-P1: DECORATIVE PENDANT: Other:	1	1	100	100
Total Proposed Watts =				702

Interior Lighting PASSES: Design 6% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

RON KIGHT - EE
 Name - Title _____ Signature _____ Date 07-31-2024

Project Title: _____ Report date: 07/30/24
 Data filename: P:\Public\124\124311 Winterville Blacksmith Winterville GA\ELEC\124311 e.cck Page 1 of 5

COMcheck Software Version 4.1.5.5
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 86.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 [PR9]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: _____ Report date: 07/30/24
 Data filename: P:\Public\124\124311 Winterville Blacksmith Winterville GA\ELEC\124311 e.cck Page 2 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL18]	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2 [EL23]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2 [EL22]	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.3 [EL16]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.3 [EL20]	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.3 [EL21]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL4]	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL8]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 [EL6]	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: _____ Report date: 07/30/24
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5 [F17]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F18]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.2.5 [F16]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F33]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: _____ Report date: 07/30/24
 Data filename: P:\Public\124\124311 Winterville Blacksmith Winterville GA\ELEC\124311 e.cck Page 4 of 5

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	VOLTS
D	○	(1) 1 0.4W LED	6" LED RECESSED DIRECTIONAL WALLWASH	LITHONIA LDNG-35/10-LW6-MVOLT-EZ10 PROVIDE SLOPE TRIM	120V 1P 2W
F	⊕	(1) 1 20W LED	DECORATIVE SEMI-FLUSH CEILING LIGHT	BARTLETT 14" SEMI-FLUSH CEILING LIGHT	120V 1P 2W
P	⊕	(1) 1 00W LED	DECORATIVE PENDANT	BARTLETT 9 1/4" MINI PENDANT	120V 1P 2W
P1	⊕	(1) 1 00W LED	DECORATIVE PENDANT	BARTLETT 16 1/2" MINI PENDANT	120V 1P 2W
S	⊕	(1) 1 0.4W LED	EXTERIOR SCONCE WITH BATTERY BACKUP	TBD	120V 1P 2W
T	⊕	(2) 1 .4W LED	EMERGENCY LIGHTING UNIT	LITHONIA ELM2L-LED	120V 1P 2W
XC	⊕	(2) 1 .5W LED	COMBINATION EXIT/EMERGENCY LIGHTING UNIT	LITHONIA LHQM-LED-R-HO	120V 1P 2W



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Client Review Drawings For
 WINTERVILLE BLACKSMITH SHOP
 Winterville GA

July 31, 2024

EO.04

COMCHECK



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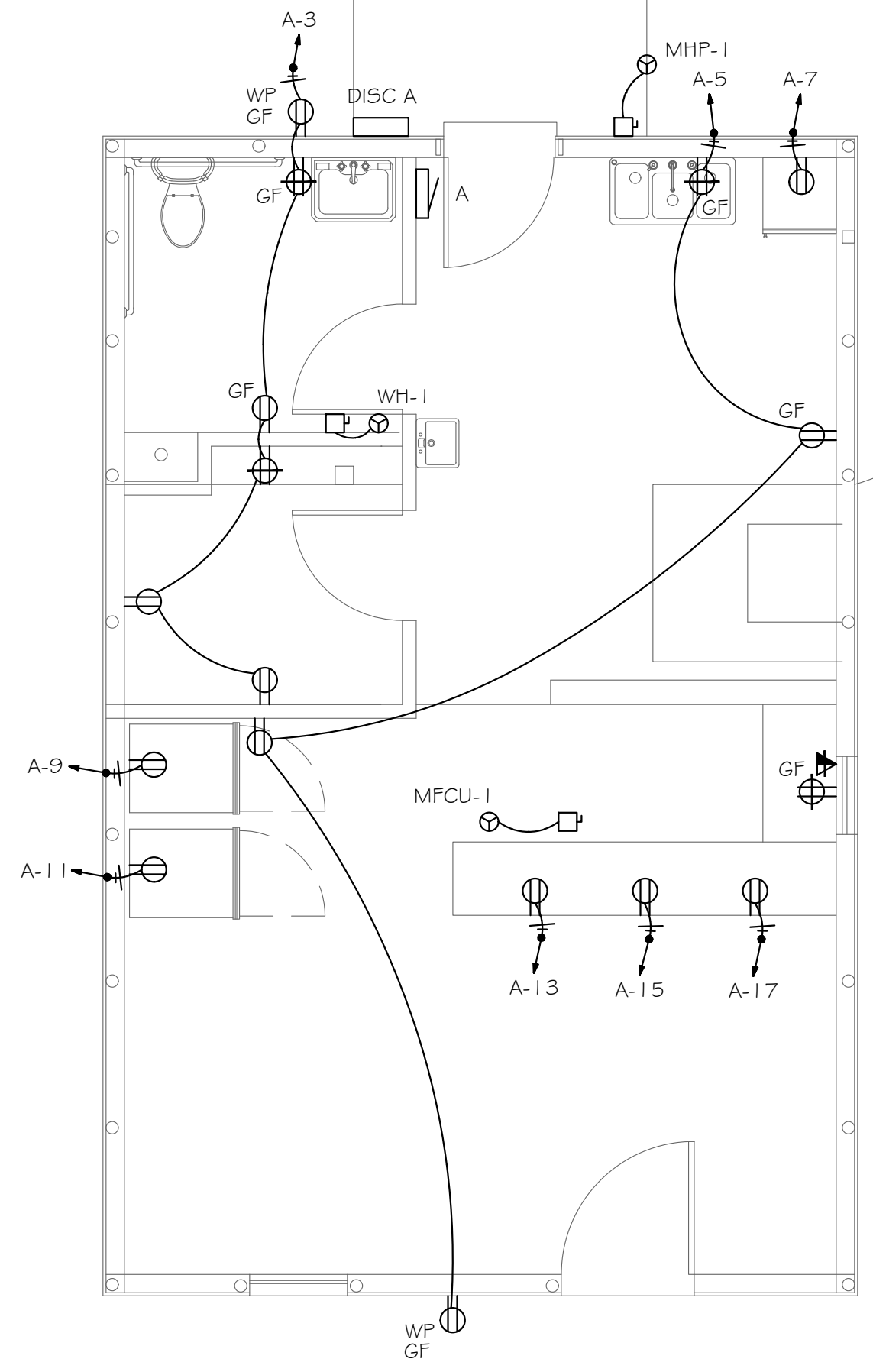


Client Review Drawings For
WINTERVILLE BLACKSMITH SHOP
Winterville GA

July 31, 2024

E2.01

FLOOR PLAN



1
POWER PLAN
E2.01
1/4" = 1'-0"

POWER NOTES

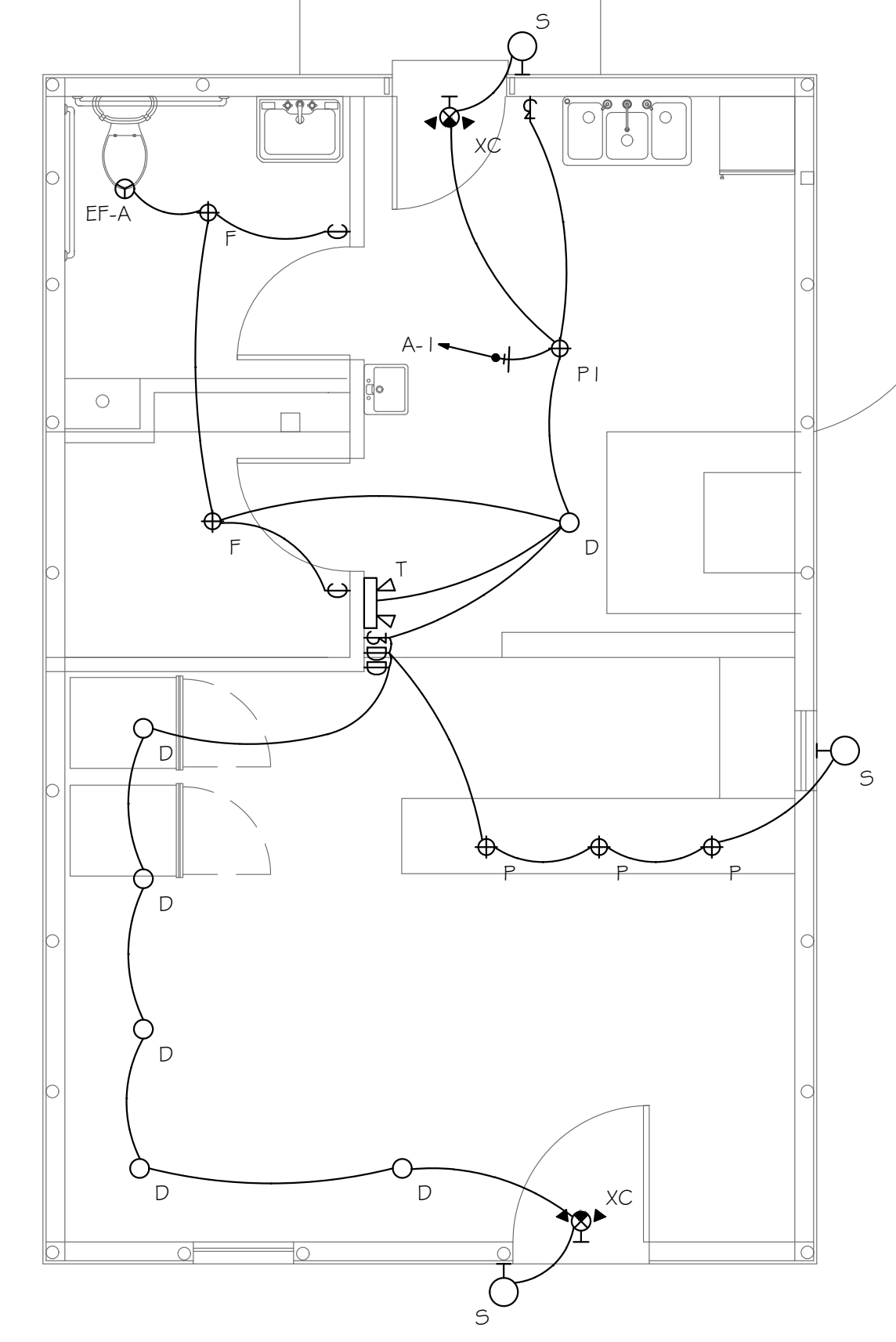
REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146.

FOR ALL KITCHEN EQUIPMENT, SEE EQUIPMENT SCHEDULE FOR ELECTRICAL CONNECTION INFORMATION AND OTHER GENERAL INFORMATION. KITCHEN APPLIANCE CONNECTION LOCATION TO BE COORDINATED WITH THE ACTUAL EQUIPMENT INSTALLED. REFER TO ARCHITECTURAL DOCUMENTS FOR MOUNTING HEIGHT AND DIMENSIONS. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

ALL SINGLE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 50A OR LESS AND THREE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100A OR LESS IN BAR, KITCHEN, AND FOOD PREP AREAS SHALL BE GFI PER NEC 210.8(B). GFCI MUST BE READILY ACCESSIBLE FOR TESTING. FOR RECEPTACLES OBSTRUCTED FROM ACCESSIBILITY BY EQUIPMENT, ACCEPTABLE ALTERNATIVES TO A GFCI RECEPTACLE ARE REMOTE TEST BUTTONS, GFCI BREAKERS, OR GFCI RECEPTACLES UPSTREAM ON THE SAME CIRCUIT.

COORDINATE FINAL RECEPTACLE PLACEMENTS AND MOUNTING HEIGHTS WITH OWNER/ARCHITECT.



2
LIGHTING PLAN
E2.01
1/4" = 1'-0"

LIGHTING NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

EXTERIOR LIGHTING SHALL BE CONTROLLED VIA TIME CLOCK AND PHOTOCELL.

UTILITY
T

SPECIFICATIONS

APPLICABLE CODES:

INTERNATIONAL FIRE CODE (IFC), 2018 EDITION
 2020 IFC GA AMENDMENTS
 INTERNATIONAL PLUMBING CODE (IPC), 2018 EDITION
 2020, 2022 & 2023 IPC GA AMENDMENTS
 INTERNATIONAL MECHANICAL CODE (IMC), 2018 EDITION
 2020 IMC GA AMENDMENTS
 INTERNATIONAL FUEL GAS CODE (IFGC), 2018 EDITION
 2020 & 2022 IFGC GA AMENDMENTS
 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2015 EDITION
 2020, 2022 & 2023 SUPPLEMENTS AND AMENDMENTS

GENERAL NOTES:

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.

ALL DUCT DIMENSIONS INDICATED IN THESE DOCUMENTS ARE INSIDE-CLEAR DIMENSIONS.

PORTIONS OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK. PAINT BLACK BEHIND ALL GRILLES.

ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM RATED CABLE.

MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.

ALL FIRE SEPARATIONS MUST BE PROTECTED WHEN APPLICABLE.

PROVIDE NEW FILTERS (MERV 7 OR BETTER PER OWNER) FOR ALL APPLICABLE HVAC EQUIPMENT AT THE END OF CONSTRUCTION.

ALL MATERIAL IN PLENUM MUST MEET FIRE AND SMOKE SPREAD AS REQUIRED BY NFPA 90A.

ALL ROOF PENETRATIONS TO BE 12" APART AND AT LEAST 12" AWAY FROM CURBS, WALLS, AND DRAIN SUMPS TO PROVIDE ROOFING CONTRACTOR WITH SUFFICIENT ACCESS FOR FLASHING EACH ROOF PENETRATION.

SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ARCHITECT PRIOR TO BID SUBMISSION.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

THE CONTRACTOR SHALL REFERENCE THE FULL SET OF CONSTRUCTION DOCUMENTS DURING PRICING AND CONSTRUCTION FOR COORDINATION BETWEEN DISCIPLINES RELATIVE TO THE MECHANICAL SCOPE.

GUARANTEE:

GUARANTEE THAT EACH PIECE OF APPARATUS SHALL BE OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNED MANUFACTURER FOR THAT CATALOG NUMBER.

GUARANTEE THAT THE AIR SYSTEMS SHALL OPERATE WITHOUT AERODYNAMIC NOISE GENERATED FROM THE FAULTY INSTALLATION OF DUCT WORK OR ANY COMPONENT OF THE AIR DISTRIBUTION SYSTEM.

GUARANTEE THAT ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A ONE YEAR WARRANTY FROM THE TIME OF DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.

EXISTING CONDITIONS:

CONTRACTOR SHALL VISIT THE SITE AND UNDERSTAND JOB CONDITIONS BEFORE SUBMITTING A PROPOSAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITY SERVICES PRIOR TO SUBMITTING HIS PROPOSAL. NO CONSIDERATION WILL BE GIVEN TO CLAIMS FOR EXTRA COST ARISING FROM CONTRACTOR'S FAILURE TO BE FULLY COGNIZANT OF JOB OR SITE CONDITIONS EXISTING AT TIME OF ACCEPTANCE OF BID.

ACTIVE SERVICES: WHEN ENCOUNTERED IN WORK, PROTECT, BRACE, SUPPORT EXISTING ACTIVE SEWERS, GAS AND OTHER SERVICES REQUIRED FOR PROPER EXECUTION OF WORK. IF EXISTING ACTIVE SERVICES ARE ENCOUNTERED THAT REQUIRE RELOCATION, RELOCATE AS APPROVED. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO REMAIN.

INACTIVE SERVICES: WHEN ENCOUNTERED IN WORK, REMOVE, CAP OR PLUG INACTIVE SERVICES, AS INDICATED.

INTERRUPTION OF SERVICES: WHERE WORK MAKES TEMPORARY SHUT-DOWNS OF SERVICES UNAVOIDABLE, SHUT DOWN AT NIGHT, OR AT SUCH TIMES AS APPROVED BY OWNER, WHICH WILL CAUSE LEAST INTERFERENCE WITH ESTABLISHED OPERATING ROUTINE. ARRANGE WORK TO ASSURE THAT SERVICES WILL BE SHUT DOWN ONLY DURING TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTION TO EXISTING WORK.

WHERE EXISTING WALLS, CEILINGS, FLOORS, ETC., ARE CUT OR OTHERWISE DAMAGED DURING CONSTRUCTION, REPAIR ALL SURFACES TO THEIR ORIGINAL CONDITION.

SHOP DRAWINGS:

SUBMIT SHOP DRAWINGS FOR REVIEW. PDF FILES PREFERRED. SHOP DRAWINGS SHALL BE BOUND INTO VOLUMES (FILES), WITH EACH VOLUME (FILE) CONTAINING ONE COPY OF ALL SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY; NO SHOP DRAWINGS WILL BE CHECKED UNTIL ALL HAVE BEEN SUBMITTED.

SUBMITTALS SHALL BE SUPPORTED BY DESCRIPTIVE MATERIAL SUCH AS CATALOG CUTS, DIAGRAMS, PERFORMANCE CURVES AND CHARTS PUBLISHED BY THE MANUFACTURER, TO SHOW CONFORMANCE TO SPECIFICATION AND DRAWING REQUIREMENTS; MODEL NUMBERS ALONE WILL NOT BE ACCEPTABLE. ALL LITERATURE SHALL CLEARLY INDICATE THE SPECIFIED MODEL NUMBER, DIMENSIONS, ARRANGEMENT, RATING AND CHARACTERISTICS OF THE PROPOSED EQUIPMENT. CAPACITIES AND RATINGS SHALL BE BASED ON CONDITIONS INDICATED OR SPECIFIED HEREIN. ANY DEVIATIONS FROM SPECIFIED EQUIPMENT (PARTICULARLY THOSE WHICH REQUIRE COORDINATION WITH OTHER TRADES) SHALL BE CLEARLY NOTED IN A CONCISE LIST ON A SEPARATE SHEET.

SPECIFICATIONS

TEST AND BALANCE:

TEST AND BALANCE (TAB) CONTRACTOR SHALL HOLD A CURRENT NATIONAL BALANCING COUNCIL (NBC) CERTIFICATION AND POSSESS ACCURATE AND CALIBRATED INSTRUMENTS. TAB WORK AND REPORTS SHALL BE PER NBC PRACTICAL STANDARDS, PROCEDURES AND FORMS. ACCEPTIBLE ALTERNATIVE TAB FIRM CERTIFICATIONS/PROCEDURES: NEBB, AABC, OR TABB.

PRIOR TO COMMENCEMENT OF THE TAB WORK, THE MECHANICAL SYSTEMS ARE TO BE STARTED AND FULLY FUNCTIONING. A CHECKLIST PRIOR TAB WORK IS TO BE SENT TO THE INSTALLING CONTRACTOR AND RETURNED ATTESTING TO THE READINESS OF THE SYSTEMS FOR BALANCING.

PREFERRED TAB FIRM: P-TAB.COM

CEILING FAN:

CEILING MOUNTED EXHAUST FANS SHALL BE OF THE CENTRIFUGAL DIRECT DRIVE TYPE. THE FAN HOUSING SHALL BE CONSTRUCTED OF STEEL. THE PLASTIC DUCT COLLAR SHALL BE A TAPERED SLEEVE FOR EASE OF CONNECTION TO 3 IN AND 4 IN ROUND DUCTWORK AND SHALL INCLUDE A BACKDRAFT DAMPER. THE GRILLE SHALL BE CONSTRUCTED OF NON-YELLOWING HIGH STRENGTH POLYMER AND ATTACHED TO THE HOUSING WITH TORSION SPRINGS. THE WHEELS SHALL BE CONSTRUCTED OF HIGH STRENGTH POLYMER. THE ACCESS FOR WIRING SHALL BE EXTERNAL. THE MOTOR DISCONNECT SHALL BE INTERNAL AND OF THE PLUG IN TYPE.

ALL FANS SHALL BEAR THE AMCA CERTIFIED RATINGS SEALS FOR SOUND AND AIR PERFORMANCE AND SHALL BE U.L. LISTED.

DUCTLESS SPLIT SYSTEM

CEILING CASSETTE INDOOR UNIT STANDARD PREFILTER IS INCLUDED WITH INDOOR UNIT CHOICE OF FAN SPEEDS: LOW, MEDIUM, HIGH INDOOR UNIT POWERED FROM OUTDOOR UNIT AUTO RESTART FOLLOWING A POWER OUTAGE BASE HEATER LIMITED WARRANTY: FIVE YEARS ON PARTS AND DEFECTS AND SEVEN YEARS ON THE COMPRESSOR.

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

DIFFUSERS, GRILLES, & REGISTERS:

EGGCRATE GRILLE:

RETURN GRILLES SHALL BE TITUS MODEL 50F FOR THE SIZES AND MOUNTING TYPES AS SHOWN ON THE PLANS AND OUTLET SCHEDULE. RETURN GRILLES MUST PROVIDE A FREE AREA OF AT LEAST 90%. OUTER BORDERS SHALL BE CONSTRUCTED OF HEAVY EXTRUDED ALUMINUM WITH A THICKNESS OF 0.040-0.050 INCH AND SHALL HAVE COUNTERSUNK SCREW HOLES FOR A NEAT APPEARANCE. BORDER WIDTH SHALL BE 1/4 INCHES ON ALL SIDES AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME. CHOICE OF THREE SIZES OF ALUMINUM GRID: 1/2 X 1/2 X 1/2 INCH, 1/2 X 1/2 X 1 INCH, OR 1 X 1 X 1 INCH SHALL BE AVAILABLE.

OPTIONAL OPPOSED-BLADE VOLUME DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL OR ALUMINUM. DAMPER MUST BE OPERABLE FROM THE FACE OF THE GRILLE.

PLAQUE DIFFUSERS:

ARCHITECTURAL SQUARE PANEL CEILING DIFFUSERS SHALL BE OF THE SIZES AND MOUNTING TYPES SHOWN ON THE PLANS AND OUTLET SCHEDULE. THE FACE PANEL IS REMOVABLE BY MEANS OF FOUR HANGER BRACKETS. THE EXPOSED SURFACE OF THE FACE PANEL SHALL BE SMOOTH, FLAT, AND FREE OF VISIBLE FASTENERS.

THE BACK OF THE FACE PANEL SHALL HAVE AN AERODYNAMICALLY SHAPED, ROLLED EDGE TO ENSURE A TIGHT HORIZONTAL DISCHARGE PATTERN. CEILING DIFFUSERS WITH A 24 X 24-INCH FULL FACE SHALL HAVE NO LESS THAN AN 18 X 18-INCH FACE PANEL SIZE. CEILING DIFFUSERS WITH A 12 X 12-INCH FULL FACE SHALL HAVE NO LESS THAN A 9 X 9-INCH FACE PANEL SIZE.

THE BACKFAN SHALL BE ONE PIECE PRECISION DIE-STAMPED AND SHALL INCLUDE AN INTEGRALLY DRAWN INLET. THE DIFFUSER NECK SHALL HAVE A MINIMUM OF 1/4-INCH DEPTH AVAILABLE FOR DUCT CONNECTION.

THE FINISH SHALL BE #2G WHITE. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 315°F FOR 30 MINUTES. THE PENCIL HARDNESS MUST BE HB TO H.

THE PAINT MUST PASS A 100-HOUR ASTM B117 CORROSIVE ENVIRONMENTS SALT SPRAY TEST WITHOUT CREEPAGE, BLISTERING OR DETERIORATION OF FILM. THE PAINT MUST PASS A 250-HOUR ASTM D870 WATER IMMERSION TEST. THE PAINT MUST ALSO PASS THE ASTM D2794 REVERSE IMPACT CRACKING TEST WITH A 50-INCH POUND FORCE APPLIED.

OPTIONAL ROUND DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL. DAMPER MUST BE OPERABLE FROM THE FACE OF THE DIFFUSER. OPTIONAL DIRECTIONAL BLOW CLIPS SHALL BE AVAILABLE TO RESTRICT THE DISCHARGE AIR IN CERTAIN DIRECTIONS.

OPTIONAL MOLDED INSULATION BLANKET SHALL BE AVAILABLE. THE INSULATION WILL BE R-6, FOIL-BACKED, AND PROVIDE AN ADDITIONAL 1-INCH GAP AROUND THE NECK TO INSTALL INSULATED FLEX DUCT.

THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR THE SQUARE PANEL DIFFUSER. THE DIFFUSER SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-1991.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	M	MOTOR
BDD	BACKDRAFT DAMPER	MA	MAKE-UP AIR
AHU	AIR HANDLING UNIT	MAU	MAKE-UP AIR UNIT
CO2	CARBON DIOXIDE	MAV	MANUAL AIR VENT
CU	CONDENSING UNIT	MBH	1,000 BTU PER HR
D	CONDENSATE DRAIN	MFCU	MINI FAN COIL UNIT
DB	DRY BULB	MHP	MINI HEAT PUMP
DH	DEHUMIDIFIER	MVD	MANUAL VOLUME DAMPER
EA	EXHAUST AIR	NC	NORMALLY CLOSED
EAT	ENTERING AIR TEMPERATURE	NO	NORMALLY OPEN
EDH	ELECTRIC DUCT HEATER	OA	OUTSIDE AIR
EF	EXHAUST FAN	OBD	OPPOSED BLADE DAMPER
ESP	EXTERNAL STATIC PRESSURE	PIU	POWER INDUCTION UNIT
EWH	ELECTRIC WALL HEATER	RA	RETURN AIR
F	DEGREES FAHRENHEIT	RH	RELIEF HOOD
FCU	FAN COIL UNIT	RTU	ROOFTOP UNIT
FD	FIRE DAMPER	SA	SUPPLY AIR
FSD	COMBINATION FIRE/SMOKE DAMPER	SP	STATIC PRESSURE
FURN	FURNACE	U.N.O	UNLESS NOTED OTHERWISE
H	HUMIDISTAT	UC	UNDER CUT DOOR
IH	INTAKE HOOD	VAV	VARIABLE AIR VOLUME
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LWT	LEAVING WATER TEMPERATURE	WL	WALL LOUVER

LEGEND

SYMBOLS	DESCRIPTION
X1 X2	DIFFUSER, GRILLE, REGISTER OR LOUVER TAG X1 = TYPE, X2 = CFM
☒	POSITIVE PRESSURE (AIR GOES OUT) DIFFUSER OR REGISTER, 4-WAY AIR PATTERN (UNLESS OTHERWISE NOTED)
☑	NEGATIVE PRESSURE (AIR GOES IN) GRILLE
→	POSITIVE PRESSURE AIRFLOW (TYP. SUPPLY)
←	NEGATIVE PRESSURE AIRFLOW (TYP. RETURN/EXHAUST)
	FLEXIBLE DUCT
┌	MANUAL VOLUME DAMPER (MVD)
▱	BACKDRAFT DAMPER (BDD)
└	VERTICAL (TYP. WALL) FIRE DAMPER
└	VERTICAL (TYP. WALL) COMBINATION FIRE/SMOKE DAMPER
└	HORIZONTAL (TYP. FLOOR/CEILING) FIRE DAMPER
└	HORIZONTAL (TYP. FLOOR/CEILING) COMBINATION FIRE/SMOKE DAMPER
⊖	THERMOSTAT
⊕	HUMIDISTAT
⊙	REMOTE TEMPERATURE SENSOR
▭	INTERNALLY LINED DUCT
☉	DUCT UP
☊	DUCT UP
☋	DUCT DOWN
▭	SUPPLY DUCT
UNIT #	EQUIPMENT TYPE EQUIPMENT NUMBER. WHERE A LETTER IS USED, THERE ARE MULTIPLE INSTANCES.

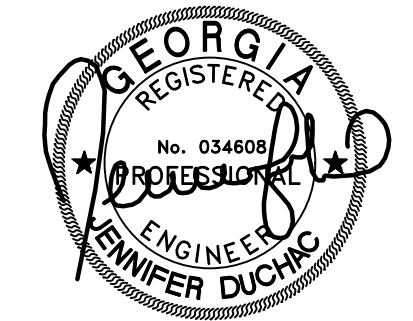


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Client Review Drawings For

WINTERVILLE BLACKSMITH SHOP
Winterville GA

July 31, 2024

MO.01

GENERAL &
DETAILS

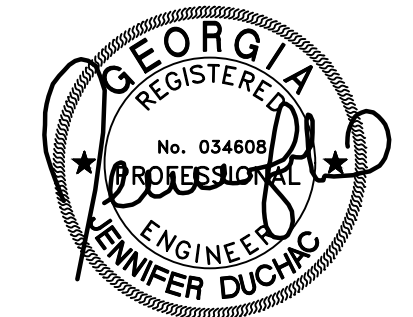


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Client Review Drawings For

WINTERVILLE BLACKSMITH SHOP
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M2.01

MECHANICAL
FLOOR PLAN

DUCTLESS SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT						OUTDOOR UNIT				COMBINED CAPACITIES	
MARK	SERVES	TYPE	MODEL/SERIES	NOMINAL TONS	CFM	MARK	MIN. SEER	MIN. HSPF	MODEL/SERIES	COOLING TOTAL (MBH)	HEATING @ 47°F (MBH)
MFCU-1	BLACKSMITH SHOP	CEILING CASSETTE, HEAT PUMP	40MBCQ24--3	2.00	625/76 1/878	MHP-1	20.0	11.5	38MAQB24R--3	24.0	24.0

NOTES (APPLY TO ALL):

- BASIS OF DESIGN: CARRIER. EQUAL PRODUCTS: DAIKIN, LENNOX, SAMSUNG, LG, SANYO, MITSUBISHI, JCI/YORK.
- SINGLE POWER CONNECTION AT OUTDOOR UNIT. DISCONNECT SWITCHES PROVIDED AT THE INDOOR AND OUTDOOR UNITS BY ELECTRICAL SUBCONTRACTOR. REFER TO THE ELECTRICAL DOCUMENTS.
- UNITS SHALL BE DOE 2023 COMPLIANT.
- FACTORY CONDENSATE PUMP OR CONDENSATE LIFT MECHANISM.
- WALL MOUNTED WIRED REMOTE CONTROLLER.
- INVERTER DRIVEN COMPRESSOR.
- MOUNT OUTDOOR UNIT ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM OF 4" THICK AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.
- REFRIGERANT LINE SET TOTAL EQUIVALENT LENGTH SHALL NOT EXCEED 82 FEET. SHOULD AN ALTERNATE MANUFACTURER BE USED, CONTRACTOR SHALL COMPLY WITH ALTERNATE MANUFACTURER LINE SET LIMITATIONS.

FAN SCHEDULE

MARK	DUTY	TYPE	CFM	E5P (IN WG)	MOTOR (W / HP*)	DRIVE	MAX NOISE (SONES)	CONTROL BY	BASIS OF DESIGN MODEL	REMARKS		
										1	2	3
EF-1	EXHAUST	CEILING CABINET	70	0.5	100	DIRECT	2.0	OCCUPANCY SENSOR	GREENHECK SP	X	X	X

NOTES (APPLY TO ALL):

- SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS
- DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY LOREN-COOK, TWIN-CITY, PENN BARRY.

REMARKS (APPLY AS SCHEDULED):

- INTEGRATED FAN SPEED CONTROLLER INSIDE FAN FOR BALANCING.
- FACTORY DISCONNECT SWITCH/PLUG.
- GRAVITY BACKDRAFT DAMPER.

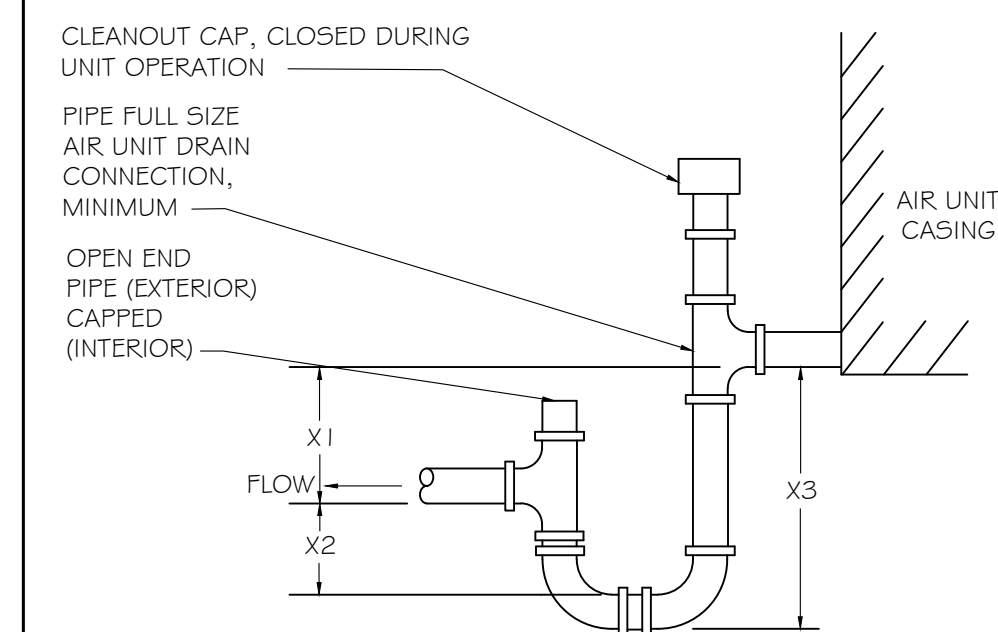
DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL
RS2828	EGGCRATE GRILLE	28x28	24x24	25	TITUS 50F
SCPO6	SUPPLY CEILING PLAQUE DIFFUSER	24x24	6Ø	25	TITUS OMNI
SCPO8	SUPPLY CEILING PLAQUE DIFFUSER	8x8	8Ø	25	TITUS OMNI

- AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.
- THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

CONDENSATE TRAP (DRAW THROUGH UNIT)

NO SCALE



WHERE:

- X1 = 1" PLUS MAXIMUM NEGATIVE STATIC PRESSURE
- X2 = HALF OF X1
- X3 = X1 + X2 + PIPE Ø + INSULATION

NOTES

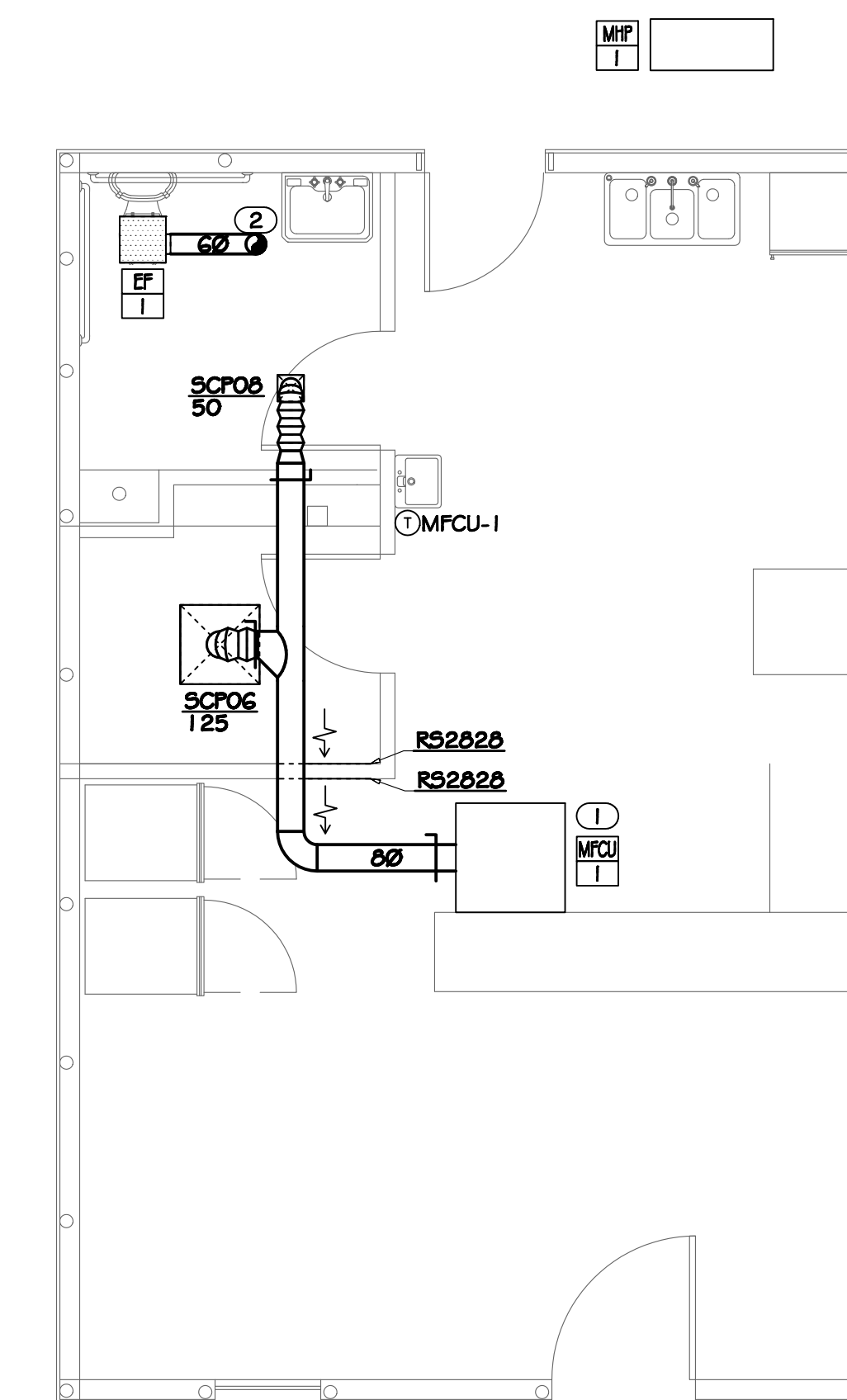
- LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

GENERAL NOTES

- EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.
- DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL EXHAUST TERMINATIONS SHALL BE LOCATED A MINIMUM OF 1'-0" FROM MECHANICAL AIR INTAKES AND A MINIMUM OF 3'-0" FROM OPERABLE BUILDING OPENINGS.
- BUILDING SHALL BE NATURALLY VENTILATED. REFER TO ARCHITECTURAL PLANS FOR AREAS OF OPERABLE OPENINGS.

KEYNOTES

- TRAP & ROUTE 1"Ø CONDENSATE DRAIN LINE FROM FAN COIL UNIT TO SPLASH BLOCK ON GRADE. COORDINATE TERMINATION LOCATION SO THAT IT DOES NOT CREATE A NUISANCE.
- EXHAUST DUCT ROUTED TO WALL CAP WITH INSECT SCREEN. WALL CAP COLOR AND FINISH SHALL BE SELECTED BY ARCHITECT.



MECHANICAL FLOOR PLAN
M2.01 1/4" = 1'-0"

SPECIFICATIONS

GENERAL

ALL WORK SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTIONS ASSOCIATED WITH THIS WORK, AND SHALL PAY ALL COSTS AND FEES INVOLVED.

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND RECOMMENDATIONS.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR EQUIPMENT INSTALLATION PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: PLUMBING FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS, GAUGES, TRAP PRIMERS AND CLEANOUTS.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FULL SET OF CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL & ELECTRICAL DRAWINGS (AS APPLICABLE) TO ENSURE ALL PLUMBING WORK IS COORDINATED WITH PHYSICAL CONDITIONS AND ALL OTHER TRADES.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS TO ENSURE THERE IS ADEQUATE WALL THICKNESS SUCH THAT ALL PIPING, FIXTURE CARRIERS, WALL CLEANOUTS, WALL BOXES, WALL HYDRANTS AND ACCESS PANELS WILL FIT IN THE WALL SPACE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF WALL SPACE IS INADEQUATE PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL OBTAIN EXACT WALL, FIXTURE, AND LAYOUT DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROUGH-IN AND INSTALLATION DRAWINGS FOR ALL PLUMBING FIXTURES, KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS, ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE COMPLETE AND OPERATIONAL CONDITIONS WHICH ARE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT ALL POSSIBLE PHYSICAL CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT AND FIXTURES. PROVIDE NECESSARY PIPING OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES, AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).

COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING SUBMITTALS OR PURCHASING EQUIPMENT.

UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT.

DOMESTIC WATER PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

ALL DOMESTIC WATER PIPING, SANITARY P-TRAPS AND GREASE WASTE PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. CONDENSATE PIPING SUBJECT TO FREEZING WITHIN WALK-IN FREEZERS SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN 1" THICK PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, OR SIMILAR MEMBERS LESS THAN 1/2" FROM THE NEAREST EDGE OF MEMBER, PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6.

PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION REGARDING CROSS CONNECTION CONTROL OR OBTAINING A FOOD SERVICE PERMIT (AS APPLICABLE). REPORT ANY OBSERVED DISCREPANCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK.

CONTRACTOR SHALL CONFIRM PLUMBING FIXTURE FINISHES WITH THE ARCHITECTURAL SCHEDULES & DETAILS (AS APPLICABLE).

PROFICIENT ENGINEERING WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND/OR FOLLOW PROFICIENT'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE.

HANGERS AND SUPPORTS
HANGERS SHALL BE COMPLETE WITH RODS AND SUPPORTS PROPORTIONED TO THE SIZE OF PIPE TO BE SUPPORTED, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SIZE HANGERS FOR INSULATED PIPING TO BEAR ON OUTSIDE OF INSULATION. PROVIDE INSULATION PROTECTORS AT HANGERS BEARING ON THE OUTSIDE OF INSULATION. PROVIDE A RIGID INSERT OR RIGID INSULATION AT EACH INSULATION PROTECTOR.

WHERE SEVERAL PIPES 2/2" AND SMALLER RUN PARALLEL AND IN THE SAME PLANE, THEY MAY BE SUPPORTED ON GANG OR MULTIPLE HANGERS. LARGER PIPING SHALL BE INDEPENDENTLY HUNG, RUN PARALLEL AND BE EQUALLY SPACED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH IPC SECTION 308, AND SPACING OF HANGERS SHALL NOT EXCEED THE LIMITS SET FORTH IN TABLE 308.5. PIPES SHALL BE SUPPORTED WITHIN 1'-0" OF EACH ELBOW.

VERTICAL PIPE SUBJECT TO MOVEMENT SHALL BE SUPPORTED FROM THE WALL BY MEANS OF A PIPE CLAMP.

SUPPORT DOMESTIC WATER PIPING IN SPACES BEHIND PLUMBING FIXTURES BY BRACKETS AND U-BOLTS SECURED TO WASTE AND VENT STACKS. SIZE U-BOLTS TO BEAR ON THE PIPING.

AFTER HANGER RODS ARE INSTALLED IN FINISHED CONCRETE CEILING, FILL THE REMAINING OPENING WITH CEMENT SO THAT NO HOLE SHOWS AT THE CEILING.

WHERE COPPER PIPING IS USED, NONFERROUS METAL SUPPORT(S) OR PROPER ISOLATION BETWEEN DISSIMILAR MATERIALS SHALL BE PROVIDED.

PIPE HANGERS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN MANUFACTURER'S STANDARDIZATION SOCIETY STANDARD PRACTICES NO. SP-69 AND SP-58.

SLEEVES AND PENETRATIONS

SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH WALLS, FLOORS AND ROOFS. PROVIDE STANDARD WEIGHT STEEL SLEEVES IN CONCRETE AND MASONRY CONSTRUCTION, PROVIDE 26GA GALVANIZED SHEET METAL SLEEVES IN INTERIOR DRYWALL CONSTRUCTION. SLEEVES SHALL BE THE FULL THICKNESS OF WALLS AND SHALL ALLOW FOR THE FULL THICKNESS OF PIPE INSULATION, WHERE APPLICABLE.

SLEEVES MAY BE OMITTED WHEN OPENINGS ARE CORE DRILLED FOR CONCEALED VERTICAL AND HORIZONTAL PIPING. SLEEVES ARE NOT REQUIRED AT INDIVIDUAL PLUMBING FIXTURES OR IN CONCRETE FLOOR SLABS ON GRADE, UNLESS OTHERWISE NOTED.

SLEEVES FOR ALL PIPING PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH 3M PIPE BARRIER NO. CP-25 FIRE PROOFING CAULKING, OR EQUAL, IN ANNULAR SPACE BETWEEN SLEEVE AND PIPING. CONTRACTOR SHALL VERIFY THE RATING OF THE WALL AND CONFIRM THE PENETRATION PROTECTION PROVIDED MEETS THAT RATING.

PENETRATIONS THROUGH OUTSIDE WALLS SHALL BE WATERTIGHT. CAULK BETWEEN PLUMBING PIPE AND SLEEVE. PACK WITH FIBERGLASS AND CAULK, 1" DEEP AT EACH FACE WITH NON-HARDENING SEALANT BETWEEN PIPE AND SLEEVE.

IN EXTERIOR WALLS AND BEARING PARTITIONS, WOOD STUDS ARE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF THE WIDTH OF THE STUD. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NONBEARING PARTITIONS NOT SUPPORTING LOADS OTHER THAN THE WEIGHT OF THE PARTITION.

BORED HOLES NOT GREATER THAN 40 PERCENT OF THE STUD WIDTH ARE PERMITTED TO BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE STUD WIDTH ARE PERMITTED IN NONBEARING PARTITIONS IN ANY WALL WHERE EACH BORED STUD IS DOUBLED, PROVIDED THAT NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLED STUDS ARE SO BORED. THE EDGE OF A BORED HOLE SHALL NOT BE NEARER THAN 3/8" INCH (1.5.9 mm) TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.

RETURN AIR PLENUMS

ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84/UL723. COPPER AND CAST IRON PIPING IS APPROVED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL RETURN AIR PLENUM LOCATIONS WITH THE MECHANICAL CONTRACTOR.

SPECIFICATIONS

WASTE AND VENT PIPING SYSTEMS AND ACCESSORIES

SANITARY PIPING SHALL BE PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM.

PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 1.2454 PER ASTM D-1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D-1785 AND ASTM D-2665. INJECTION MOULDED FITTINGS SHALL CONFORM TO ASTM D-2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F-1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D-2564. PRIMER SHALL CONFORM TO ASTM F-656. BURIED PIPE SHALL CONFORM TO ASTM D-2321.

WASTE AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE GOVERNING CODES. AT A MINIMUM, WASTE PIPING SHALL BE TESTED WITH AT LEAST 1.0 FOOT OF WATER HEAD PRESSURE APPLIED.

SANITARY STACKS TRANSITIONING TO THE HORIZONTAL SHALL BE THROUGH 45° WYE BRANCHES, COMBINATION WYE AND ONE-EIGHTH BEND BRANCHES, OR OTHER APPROVED FITTINGS OF EQUIVALENT SWEEP.

ALL VENTS THROUGH ROOF SHALL BE LOCATED AT LEAST 1.0'-0" AWAY FROM ANY AIR INTAKE, EVAPORATIVE COOLER, OR ANY OTHER DEVICE THAT WOULD DRAW AIR FROM THE VENT. FLASH AROUND ALL PIPES PENETRATING THROUGH ROOF WITH STANDARD MANUFACTURED FLASHINGS. FLASHING SHALL BE SHEET METAL WITH RUBBER GASKETS AND SHALL EXTEND INTO ROOFING AND UP PIPE DISTANCES IN ACCORDANCE WITH THE LOCAL CODE.

NO DOUBLE COMBINATION FITTINGS MAY BE UTILIZED IN THE HORIZONTAL.

WHERE TWO HORIZONTAL PIPES (BACK-TO-BACK WATER CLOSETS OR TWO SANITARY BRANCHES) COMBINE IN THE VERTICAL, A DOUBLE COMBINATION WYE EIGHTH BEND FITTING SHALL BE INSTALLED. DOUBLE SANITARY TEE OR SANITARY CROSS IS NOT ACCEPTABLE.

WHERE DRAWINGS REQUIRE CONNECTION TO EXISTING SANITARY SEWER PIPING IN BUILDING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD DETERMINE EXACT LOCATION, DEPTH AND DIRECTION OF FLOW PRIOR TO COMMENCING WORK. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER IF THERE IS A POTENTIAL ISSUE MAINTAINING PROPER SLOPE IN CONNECTING TO EXISTING, OR IF THERE IS A MORE DIRECT CONNECTION POSSIBLE. CONTRACTOR SHALL CONFIRM THAT ANY EXISTING PIPING TO BE REUSED IS CLEAN, FREE OF DEFECTS, ADEQUATELY SLOPED (1/4"FT MINIMUM) AND THAT THERE ARE NO DIPS THAT COULD HOLD WATER. PROVIDE CAMERA SCOPING TO DOCUMENT THIS INFORMATION. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER OF ANY DEFICIENCIES.

DOMESTIC WATER SYSTEMS AND ACCESSORIES

THE PRIMARY SPECIFICATION FOR DOMESTIC WATER PIPING SHALL BE AS FOLLOWS: WATER PIPING ABOVE FLOOR: TYPE 'L' HARD DRAWN COPPER TUBING, ASTM B88, WROUGHT SOLDER JOINTS, ANSI B1.6.22. WATER PIPING BELOW FLOOR: TYPE 'K' SOFT DRAWN COPPER TUBING, WITH NO JOINTS BELOW SLAB, ASTM B88.

AS AN ALTERNATE TO THE PRIMARY SPECIFICATION FOR WATER PIPING, THE FOLLOWING MAY BE USED IN WHOLE OR IN PART. THE PLUMBING CONTRACTOR SHALL LIST EACH SYSTEM AS A SEPARATE LINE ITEM AS AN ALTERNATE FOR THE OWNER'S SELECTION. USE OF ANY ALTERNATE SHALL BE AT THE SOLE DISCRETION OF THE OWNER. SERVICE PIPING BELOW GRADE: CPVC (CHLORINATED POLYVINYL CHLORIDE) SCHEDULE 40 WHEN APPROVED BY THE AUTHORITY HAVING JURISDICTION. SHALL MEET ASTM D2846 AND ASTM F 441. HOT AND COLD WATER PIPING ABOVE FLOOR: CPVC (CHLORINATED POLYVINYL CHLORIDE) SCHEDULE 40 WITH SOLVENT WELD JOINTS WHEN APPROVED BY THE AUTHORITY HAVING JURISDICTION. PIPING SHALL MEET ASTM D 2848 AND SHALL BE CERTIFIED BY THE NSF INTERNATIONAL FOR USE WITH POTABLE WATER SYSTEMS. SOLVENT CEMENTS FOR CPVC PLASTIC PIPING SHALL MEET ASTM F437, ASTM F438 AND ASTM F439. WATER PIPING ABOVE FLOOR: CROSS-LINKED POLYETHYLENE (PEX) TUBING, SHALL COMPLY WITH ASTM F 876, ASTM F 877; CSA B137.5. HOT AND COLD WATER PIPING ABOVE FLOOR: CROSS-LINKED POLYETHYLENE (PEX) TUBING, SHALL COMPLY WITH ASTM F 876, ASTM F 877; CSA B137.5.

ALL DOMESTIC HOT WATER PIPING SHALL HAVE A MINIMUM PRESSURE RATING OF 1.00PSI AT 180°F.

DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH ALL GOVERNING CODES. PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

BALL VALVES SHALL BE TWO-PIECE BRONZE BODY, LARGE PORT WITH SOLID, SMOOTH BORE CHROME PLATED BRASS BALL. SEATS SHALL BE REINFORCED TFE WITH TEFLON PACKING RING AND THREADED ADJUSTABLE PACKING NUT. PROVIDE STEM EXTENSION AS NEEDED TO PROVIDE HANDLE ON OUTSIDE OF PIPE INSULATION. VALVES SHALL BE APOLLO 70 OR EQUAL.

BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS FOR EASE OF TESTING AND SERVICING. FOR BACKFLOW PREVENTERS WITH VENT CONNECTIONS, ROUTE VENT LINE TO NEAREST DRAIN AND DISCHARGE WITH AIR GAP. BACKFLOW PREVENTERS SHALL BE TESTED IN ACCORDANCE WITH IPC 312.1.0.2. CONTRACTOR SHALL PROVIDE CERTIFICATIONS THAT STATE DEVICES HAVE BEEN TESTED AND APPROVED.

THERMOMETERS SHALL BE 9" ADJUSTABLE ANGLE, 30°-180°F RANGE (TRERICE BX9 OR EQUAL). PRESSURE GAUGES SHALL BE 4 1/2" DIAL SIZE, 0-160PSI (TRERICE 600CB OR EQUAL).

CONTRACTOR SHALL FIELD VERIFY INCOMING DOMESTIC WATER PRESSURE TO CONFIRM ADEQUATE PRESSURE TO SERVE THE DOMESTIC WATER SYSTEM. CONTRACTOR SHALL ALERT ENGINEER TO A POTENTIAL LOW PRESSURE CONDITION. WHERE PRESSURE EXCEEDS 80PSI, PROVIDE PRESSURE REGULATING VALVE (WATTS LF223) AND UPSTREAM STRAINER (WATTS L5F777).

CONTRACTOR SHALL FIELD COORDINATE LOCATION OF ACCESSIBLE ISOLATION VALVES ON DOMESTIC HOT & COLD WATER SUPPLIES TO FIXTURES OR GROUPS OF FIXTURES SUCH THAT THEY MAY BE SHUT OFF FOR SERVICING. SERVICE AND HOSE BIBB VALVES SHALL BE IDENTIFIED. ALL OTHER VALVES INSTALLED IN LOCATIONS THAT ARE NOT ADJACENT TO THE FIXTURE(S) SHALL BE IDENTIFIED, INDICATING THE FIXTURE(S) SERVED.

INSULATION

INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE C403.2.1.0. PIPE UP TO 1 1/4": 1" THICK INSULATION. PIPE 1 1/2" OR LARGER: 1 1/2" THICK INSULATION

INSULATE ALL HORIZONTAL COLD WATER PIPING LOCATED ABOVE CEILING, VERTICAL PIPING LOCATED IN AN EXTERIOR WALL, EXPOSED PIPING (I.E. MECH ROOMS). PIPE UP TO 1 1/2" THICK. PIPING 1 1/2" AND OVER: 1" THICK INSULATION. ALL WATER AND DRAINAGE PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN 1" THICK PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

ALL JOINTS SHALL BE SEALED WITH MATCHING VAPOR BARRIER TAPE.

INSULATION SHALL HAVE A K-FACTOR (AVERAGE THERMAL CONDUCTIVITY) NOT TO EXCEED 0.27 BTU-IN/HR x SQFT x °F.

PROTECTION OF PIPING

PIPING PASSING UNDER FOOTINGS OR THROUGH FOUNDATION WALLS SHALL BE PROVIDED WITH A SLEEVE TWICE THE DIAMETER OF THE PIPE. OPEN ENDS OF SLEEVES SHALL BE SEALED. PIPING PASSING THROUGH CONCRETE OR GINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED IN ACCORDANCE WITH IPC 305.1. ALL PIPING INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6. VERTICAL STACKS IN WOOD CONSTRUCTION SHALL BE PROTECTED FROM BUILDING SETTLING WITH COMPRESSION/EXPANSION FITTINGS AND PIPE CLAMPS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS (FERNCO XJ SERIES OR EQUAL).

TANK TYPE WATER HEATERS

WATER HEATERS SHALL BE U.L. LISTED AND SHALL MEET OR EXCEED THE STANDBY LOSS REQUIREMENTS OF U.S. DEPT. OF ENERGY AND CURRENT EDITION OF ASHRAE/IESNA 90.1.

WATER HEATERS SHALL HAVE 150PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE ROD AND HIGH TEMPERATURE CUTOFF SWITCH. WATER HEATERS SHALL BE THERMOSTATICALLY CONTROLLED AND SET TO 120° UNLESS OTHERWISE NOTED. WATER HEATERS SHALL BE INSTALLED ON SUSPENDED PLATFORM, STEEL STAND OR CONCRETE PAD, AS INDICATED ON DRAWINGS.

WATER HEATERS SHALL HAVE A MINIMUM 3 YEAR LIMITED WARRANTY.

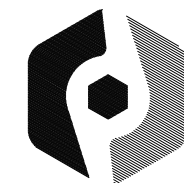
WATER HEATERS SHALL BE INSTALLED LEVEL AND PLUMB. FIELD COORDINATE EXACT WATER HEATER LOCATION. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES, AND INSTALL SUCH THAT CONTROLS AND DEVICES ARE ACCESSIBLE FOR SERVICING.

INSTALL SHUTOFF VALVES IN COLD WATER INLET AND HOT WATER OUTLET. INSTALL THERMOMETER ON HOT WATER OUTLET. WATER HEATER SHALL HAVE ASME RATED COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE IN TOP PORTION OF TANK (FACTORY OR FIELD INSTALLED). PIPE RELIEF VALVE OUTLET TO FLOOR DRAIN, MOP SINK, INDIRECT WASTE RECEPTOR OR TO EXTERIOR. MAINTAIN CONTINUOUS DOWNWARD PITCH TOWARD DISCHARGE LOCATION, AND PROVIDE AIR GAP AT DISCHARGE LOCATION. WHERE WATER HEATER DRAIN PAN IS INDICATED ON PLANS, ROUTE DRAIN TO SAME LOCATION AS RELIEF VALVE AND DISCHARGE WITH AIR GAP.

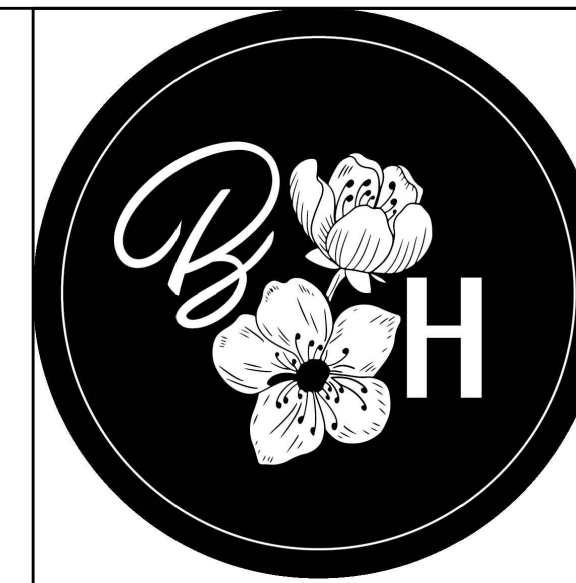
SUBMITTALS

FURNISH SHOP DRAWINGS FOR MANUFACTURED PRODUCTS. ALL ITEMS SHALL BE CLEARLY MARKED TO MATCH EQUIPMENT MARKS ON THE PLUMBING DRAWINGS. ALL OPTIONS MUST BE CLEARLY MARKED ON THE SUBMITTAL SHEET. A MODEL NUMBER LISTING ON A COVER SHEET IS NOT AN ACCEPTABLE SUBSTITUTE FOR MARKING THE ACTUAL SUBMITTAL SHEET. ELECTRICAL DATA FOR POWERED EQUIPMENT MUST BE INDICATED ON THE SUBMITTAL SHEET FOR THAT ITEM.

SUBMITTAL REVIEW IS CONSIDERED A GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN SUBSTITUTED EQUIPMENT IS INSTALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION OR ADDITIONAL COST BROUGHT ON BY THE USE OF THIS EQUIPMENT.



PROFICIENT
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6991 Peachtree Industrial Blvd Building 700
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PROJECT # 124311

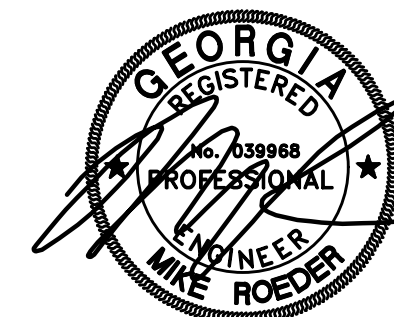


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Client Review Drawings For

WINTERVILLE BLACKSMITH SHOP
Winterville GA

July 31, 2024

PO.01

GENERAL

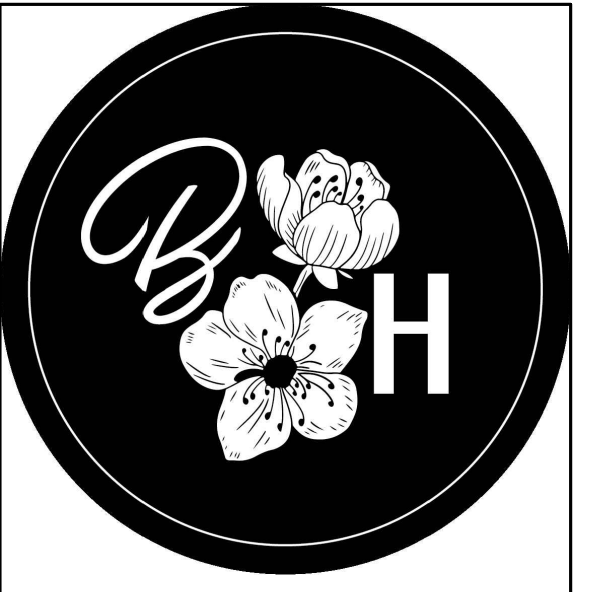
ABBREVIATIONS			
AAV	AIR ADMITTANCE VALVE	IMB	ICE MACHINE BOX
A/C	ABOVE CEILING	IE	INVERT ELEVATION
A/F	ABOVE FLOOR	IWH	INSTANTANEOUS WATER HEATER
AFF, AFG	ABOVE FINISHED FLOOR/GRADE	L, LAV	LAVATORY
B/F, B/G	BELOW FLOOR/GRADE	MBH	1000 BTU/HR
BFP	BACKFLOW PREVENTER	MS	MOP SINK
CD	CONDENSATE DRAIN	MV	MIXING VALVE
CONT	CONTINUATION	O/H	OVERHEAD
CW	COLD WATER	G	NATURAL GAS
DN	DOWN	PD	PUMPED DISCHARGE
ET	EXPANSION TANK	PRV	PRESSURE REDUCING VALVE
EWC	ELECTRIC WATER COOLER	RP	RECIRCULATION PUMP
ex.	EXISTING	S, SAN	SANITARY
FCO	FLOOR CLEANOUT	SH	SHOWER
FD	FLOOR DRAIN	SK	SINK
FHB	FREEZEPROOF HOSE BIBB	TP	TRAP PRIMER
FS	FLOOR SINK	TYP	TYPICAL
FRH	FREEZEPROOF ROOF HYDRANT	UR	URINAL
FWH	FREEZEPROOF WALL HYDRANT	V	VENT
GCO	GRADE CLEANOUT	VTR	VENT THROUGH ROOF
GI	GREASE INTERCEPTOR	WC	WATER CLOSET
HB	HOSE BIBB	W.C.	WATER COLUMN
HD	HUB DRAIN	WCO	WALL CLEANOUT
HW	HOT WATER	WHA	WATER HAMMER ARRESTOR
HWR	HOT WATER RETURN	WMB	WASHING MACHINE BOX

LEGEND	
	COLD WATER PIPE
	HOT WATER PIPE
	SANITARY PIPE
	VENT PIPE
	GREASE WASTE PIPE
	DRAIN PIPE
	INDIRECT WASTE PIPE
	PIPE UP / PIPE DOWN
	PIPE TEE FROM TOP / TEE FROM BOTTOM
	PIPE CAP / PIPE CONTINUATION
	BALL VALVE / CHECK VALVE
	MIXING VALVE / PRESSURE REDUCING VALVE
	BACKFLOW PREVENTER ASSEMBLY
	WALL HYDRANT / HOSE BIBB
	FLOOR DRAIN / FLOOR SINK
	WATER HAMMER ARRESTOR
	P-TRAP
	HUB DRAIN
	TRAP PRIMER
	FLOOR CLEANOUT / GRADE CLEANOUT
	VENT THROUGH ROOF
	PIPE CLEANOUT / WALL CLEANOUT

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	WASTE RUNOUT	WASTE CONN.	VENT	WATER RUNOUT		WATER CONN.		SPECIFICATION
					CW	HW	CW	HW	
L-1	LAVATORY (ADA) - WALL HUNG	2"	1 1/2"	2"	1/2"	1/2"	3/8"	3/8"	WALL HUNG LAVATORY (AMERICAN STANDARD LOGICLINE, CS35-012) WITH CONCEALED ARM CARRIER MOUNTING (ZURN Z1231). PROVIDE 0.5GPM SINGLE HANDLE FAUCET WITH POLISHED CHROME FINISH (DELTA 501LF-HGMHDF). HANDICAP DRAIN OFFSET W/GRID DRAIN (ZURN Z8746-FC) AND CHROME PLATED P-TRAP (ZURN Z8701-PC). CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH FLEX SUPPLIES (MCGUIRE H165). INSULATE OFFSET, TRAP AND SUPPLY LINES (TRUEBRO "LAVGUARD," #103 E-Z). PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER HOT WATER TO 110 DEGREES (LEONARD 170-LF). LEAD FREE, ASSE 1072.
WC-1	WATER CLOSET (ADA) - TANK TYPE	4"	3"	2"	1/2"	---	1/2"	---	FLOOR MOUNTED, ADA TANK TYPE WATER CLOSET (AMERICAN STANDARD "CADET PRO RIGHT HEIGHT," 215AA104-020), 1.28 GPF, WHITE VITREOUS CHINA, GRAVITY FED FLUSH ACTION, TOP OF RIM AT 16.5" AFF. HIGH EFFICIENCY "WATERSENSE" LISTED. PROVIDE ALTERNATE TANK CONFIGURATION WITH TRIP LEVER ON RIGHT HAND SIDE IF NECESSARY TO HAVE LEVER ON OPEN SIDE OF WATER CLOSET. HEAVY DUTY OPEN FRONT SEAT, LESS COVER, WITH SELF-SUSTAINING CHECK HINGE (BEMIS 10555SC). CHROME PLATED BRASS ANGLE SUPPLY STOP WITH 12" LONG X 3/8" FLEX SUPPLY (MCGUIRE M166).
FD-1	FLOOR DRAIN - GENERAL PURPOSE	3"	3"	2"	---	---	---	---	GENERAL PURPOSE FLOOR DRAIN (J.R. SMITH #2005) WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD & 5" ROUND NICKEL BRONZE REMOVABLE STRAINER. PROVIDE SQUARE REMOVABLE STRAINER FOR TILE APPLICATIONS. PROVIDE ASSE 1072 TRAP SEALER (ZURN Z1072).
FD-2	FLOOR DRAIN - KITCHEN	3"	3"	2"	---	---	---	---	KITCHEN AREA DRAIN (J.R. SMITH #2005) WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD & 7" ROUND NICKEL BRONZE REMOVABLE STRAINER. PROVIDE SQUARE REMOVABLE STRAINER FOR TILE APPLICATIONS. PROVIDE ASSE 1072 TRAP SEALER (ZURN Z1072).
HD-1	HUB DRAIN	see plan	see plan	---	---	---	---	---	SILOUX CHIEF 832 SERIES ADJUSTABLE HUB DRAIN FIXTURE. PROVIDE 832 SERIES STAINLESS STEEL MESH SEDIMENT SCREEN. PROVIDE ASSE 1072 TRAP SEALER (ZURN Z1072).
WCO	WALL CLEANOUT	4"	4"	---	---	---	---	---	CLEANOUT PLUG AND COVER TO BE INSTALLED ON SANITARY TEE (J.R. SMITH 4472). CAST BRONZE TAPERED THREAD PLUG WITH STAINLESS STEEL ROUND COVER.
MV-1	MIXING VALVE (POINT OF USE)	---	---	---	1/2"	1/2"	3/8"	3/8"	POINT-OF-USE THERMOSTATIC MIXING VALVE (LEONARD #170-LF) WITH INTEGRAL INLET CHECK VALVES, TEMPERATURE ADJUSTMENT KNOB WITH LOCK SCREW, LEAD FREE. ASSE STANDARD 1070. MINIMUM FLOW 0.25 GPM, 5 PSI DROP @ 1.7 GPM.
ET-1	POTABLE WATER EXPANSION TANK	---	---	---	3/4"	---	3/4"	---	LEAD-FREE POTABLE WATER EXPANSION TANK (WATTS PLS-5). 2.7 GALLONS TOTAL VOLUME, 0.8 GALLONS MAXIMUM ACCEPTANCE VOLUME. TANK SHALL BE PRE-CHARGED TO THE SYSTEM PRESSURE PRIOR TO INSTALLATION (CONTRACTOR TO FIELD-VERIFY).
FWH-1	FREEZEPROOF WALL HYDRANT IN BOX	---	---	---	3/4"	---	3/4"	---	CONCEALED 3/4" HOSE CONNECTION IN WALL BOX, WITH INTEGRAL AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER (J.R. SMITH 5509QT). LENGTH TO SUIT WALL THICKNESS. PROVIDED WITH QUARTER TURN, SQUARE FITTING, T-HANDLE KEY.
IMB-1	ICE MAKER/REFRIGERATOR BOX	---	---	---	1/2"	---	1/2"	---	ICE MAKER CONNECTION BOX (OATEY #385x386x SERIES), 5/8", LOW LEAD, 1/4 TURN BRASS VALVE WITH INTEGRAL FACTORY INSTALLED WATER HAMMER ARRESTOR. WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, PROVIDE OATEY 391 x SERIES. PROVIDE BACKFLOW PREVENTER IN SUPPLY LINE (WATTS SD3, ASSE 1022).
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY FIXTURE SPECIFICATIONS WITH ARCHITECT/OWNER.									

ELECTRIC WATER HEATER SCHEDULE						
MARK	TANK CAPACITY	RECOVERY	SETPOINT	ELECTRICAL	BASIS	TYPE
WH-1	40 GAL	45 GPH @ 90° RISE	140°	10.0 KW	A.O. SMITH DEL-40	LOWBOY
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED WATER HEATER. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.						

GREASE INTERCEPTOR CALCULATIONS (GI-1)						
CALCULATIONS BASED ON PLUMBING DRAINAGE INSTITUTE'S STANDARD PDI-G 101, TABLE 8.3.2 "PROCEDURE FOR SIZING GREASE INTERCEPTORS" (REV. APR 2015)						
12"	18"	12"	QTY=3	THREE COMPARTMENT SINK	12 x 18 x 12 x 3 = 7776 CU IN	
TOTAL VOLUME (CU IN)					7776 CU IN	
TOTAL VOLUME (GAL)					7776 CU IN X (1 GAL/231 CU IN) = 34 GAL	
TOTAL DRAINAGE VOLUME (75% FULL)					34 GAL X 0.75 = 25 GAL	
FLOWRATE (2 MINUTE DRAINAGE PERIOD)					25 GAL / 2 MIN = 13 GPM	
TOTAL PEAK FLOW					12.6 GPM	
SELECT PDI SIZE '20'- 20GPM, 40 LB CAPACITY GREASE INTERCEPTOR						
SPECIFICATION: ZURN 'GT-2701-20' ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL LOW TYPE GREASE INTERCEPTOR. PDI RATED AT FLOWRATE AND CAPACITY LISTED ABOVE, WITH INTERNAL AIR RELIEF BYPASS, BRONZE CLEANOUT PLUG AND VISIBLE DOUBLE WALL TRAP SEAL WITH REMOVABLE PRESSURE EQUALIZING FLOW DIFFUSING INLET BAFFLE, FIXED BOTTOM OUTLET BAFFLE, AND VISIBLE DOUBLE WALL TRAP SEAL. GASKETED NON-SKID SECURED COVER WITH CENTER TIE DOWN ASSEMBLY, COMPLETE WITH EXTERNAL FLOW CONTROL FITTING. PDI CERTIFICATION SHALL BE VISIBLE OUT THE OUTSIDE OF THE INTERCEPTOR. PROVIDE INLET SIZE AS SHOWN ON PLAN.						



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Client Review Drawings For
WINTERVILLE BLACKSMITH SHOP
 Winterville GA

July 31, 2024

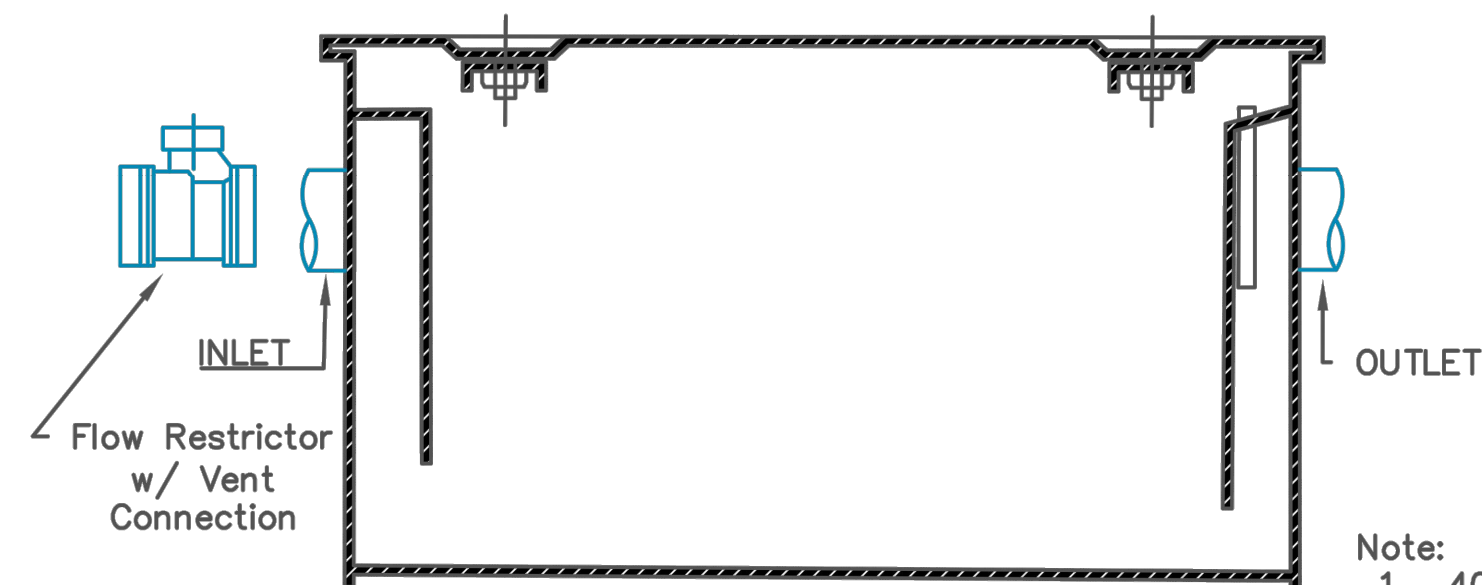
PO.02

LEGENDS & SCHEDULES

CLARKE COUNTY STEEL GREASE INTERCEPTOR

NO SCALE

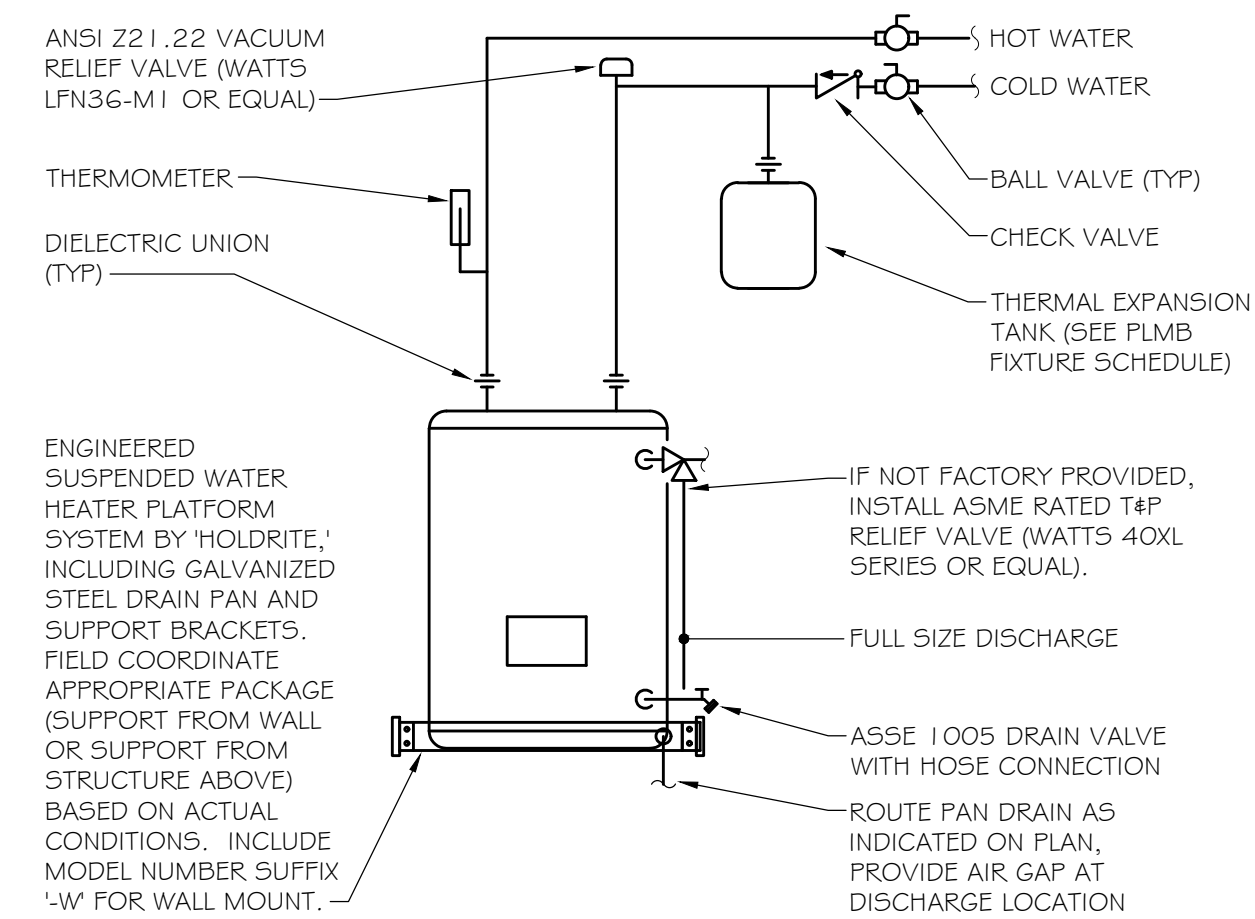
Indoor grease interceptors are permitted if space limitations do not allow outdoor installations



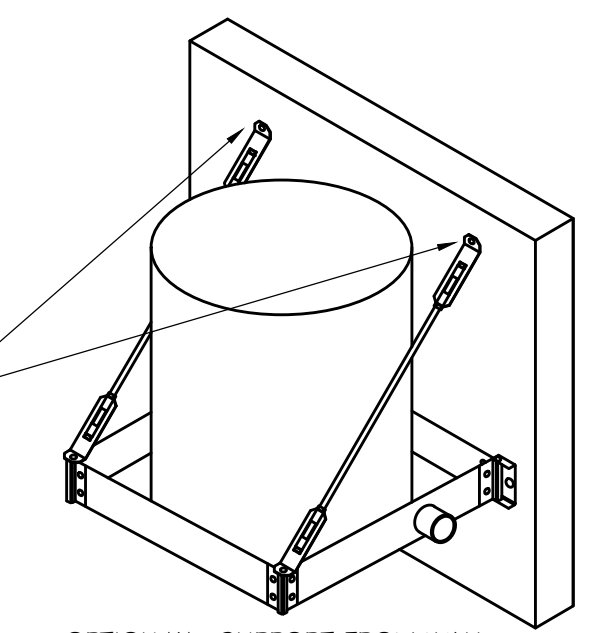
INDOOR GREASE INTERCEPTOR

PLATFORM MOUNTED ELECTRIC WATER HEATER

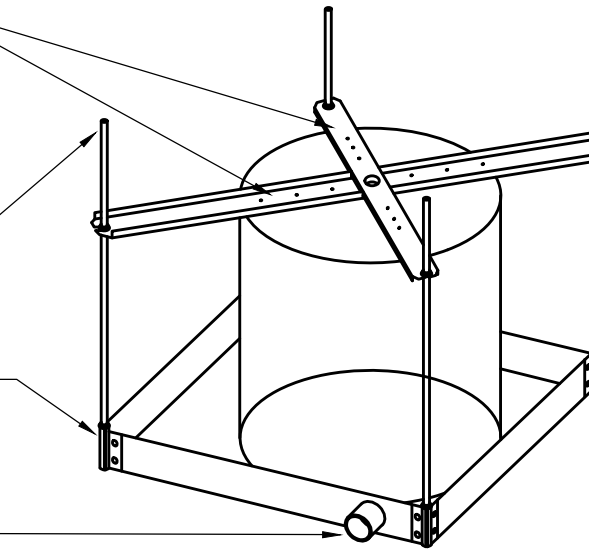
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HARDWARE PROVIDED WITH KIT. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPECIFIC DETAILS ON ATTACHING BRACKETS TO MASONRY WALL, FRAMED WALL, ETC.



OPTION 'A' - SUPPORT FROM WALL



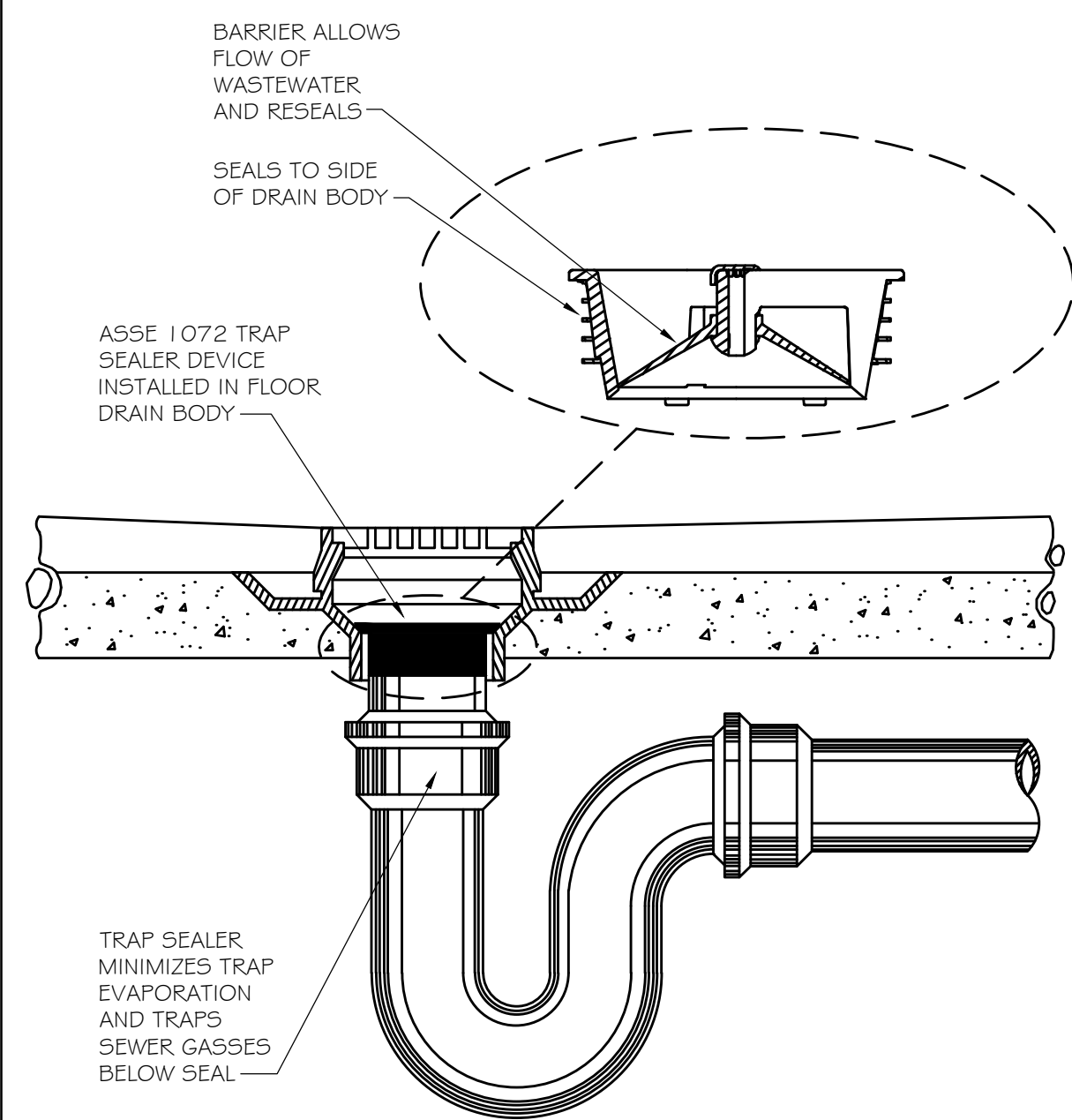
OPTION 'B' - SUPPORT FROM STRUCTURE ABOVE

PROVIDE WORKING SPACE IN FRONT OF WATER HEATER AT LEAST 30 INCHES WIDE AND 30 INCHES DEEP
 PROVIDE APPROPRIATE 'HOLDRITE' MODEL BASED ON SCHEDULED WATER HEATER VOLUME AND WATER HEATER DIAMETER

PRODUCT	GALLONS	MAXIMUM WEIGHT	PAN SIZE
#40 SWHP	6 to 20	375	21.25" X 21.25"
#50 SWHP	30 to 50	600	26.5" X 26.5"

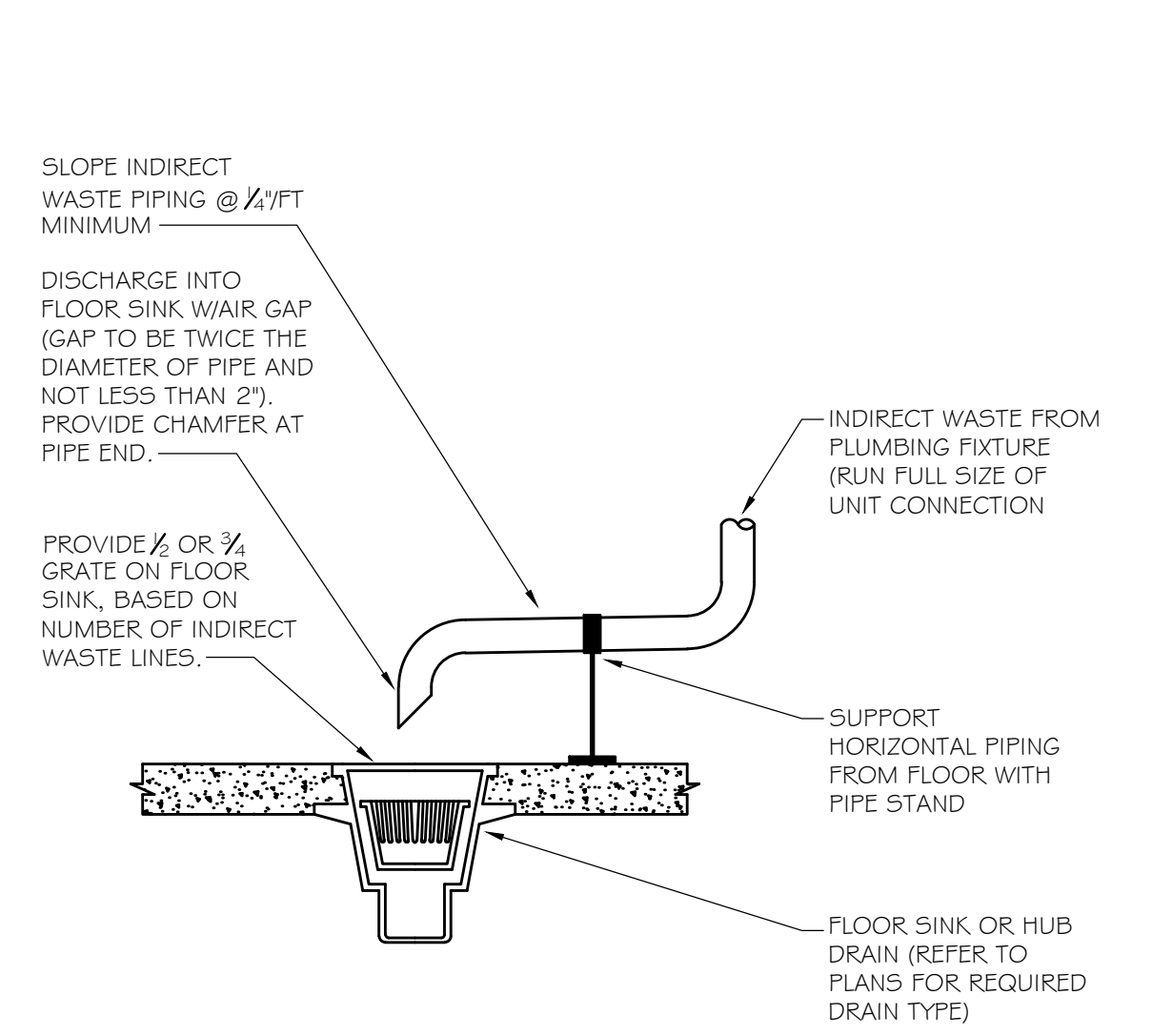
TRAP SEALER

NO SCALE



INDIRECT WASTE DETAIL

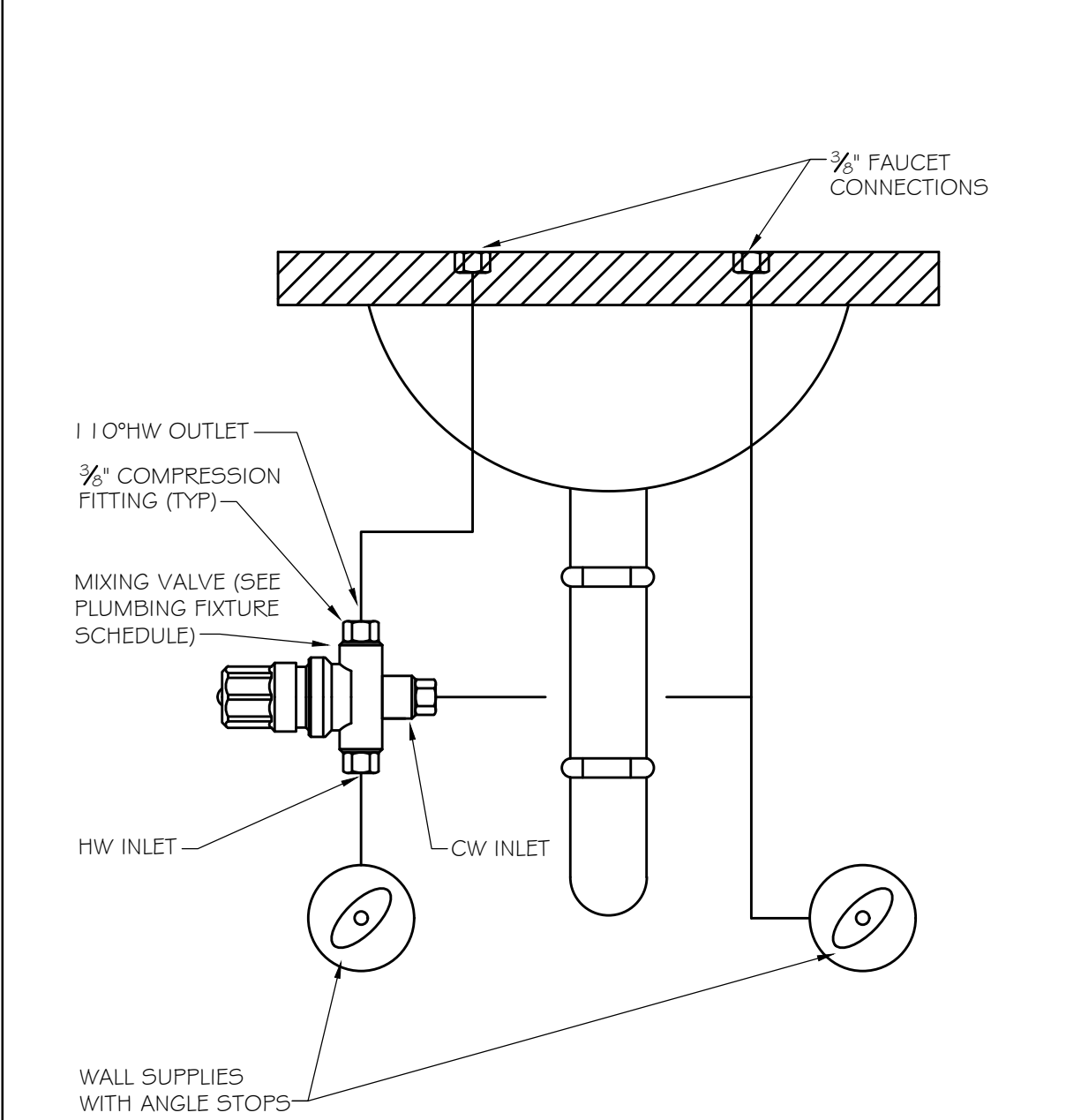
NO SCALE



INDIRECT WASTE PIPING THAT DRAINS ICE MAKERS OR CONDENSATE FROM ANY AIR CONDITIONING OR REFRIGERATION EQUIPMENT SHALL BE INSULATED

POINT OF USE MIXING VALVE

NO SCALE



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Client Review Drawings For
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 Winterville GA

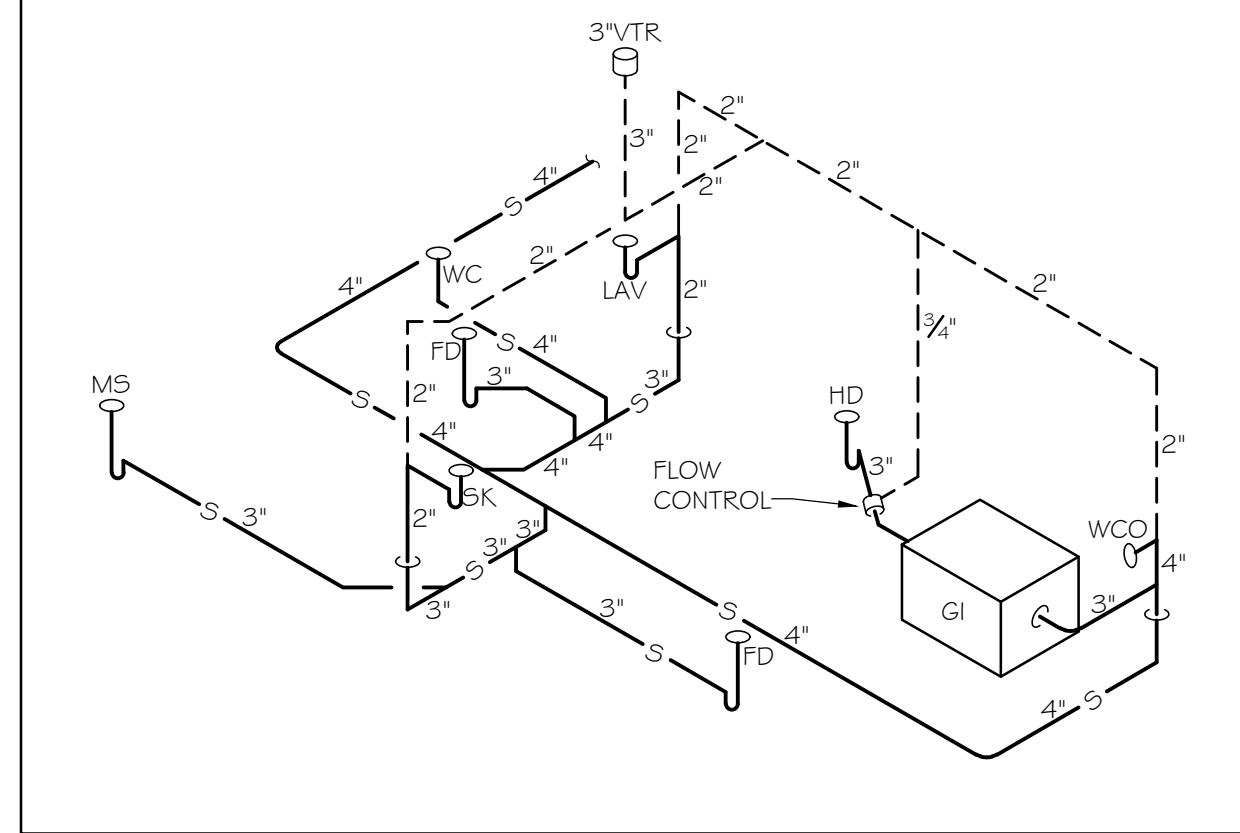
July 31, 2024

PO.03

DETAILS

WASTE/VENT ISOMETRIC

NO SCALE



KITCHEN EQUIPMENT NOTES

CONTRACTOR SHALL FULLY COORDINATE THE INSTALLED KITCHEN EQUIPMENT WITH THESE DRAWINGS AND THE KITCHEN DESIGN DRAWINGS (AS APPLICABLE) TO ENSURE THAT ALL KITCHEN EQUIPMENT IS PROVIDED WITH THE REQUIRED DRAINAGE & WATER CONNECTIONS. SHUTOFF VALVES SHALL BE PROVIDED FOR MAINTENANCE ON ALL WATER SUPPLIES TO FIXTURES & EQUIPMENT.

KEYNOTES

- 1 2" V DN
- 2 3" V UP TO 3" VTR
- 3 ROUTE WATER HEATER PAN DRAIN O/H & DN IN WALL, TURN OUT WITH ESCUTCHEON & DISCHARGE TO MOP SINK WITH AIR GAF. FIELD COORDINATE EXACT PATH.
- 4 3" HUB DRAIN HD-1 A/F. DISCHARGE ALL NEARBY INDIRECT WASTE CONNECTIONS FULL SIZE W/AIR GAF AT LEAST TWICE THE DIAMETER OF INDIRECT WASTE PIPE (SEE DETAIL). FIELD COORDINATE EXACT LOCATION WITH INSTALLED EQUIPMENT.
- 5 3" GW A/F TO NEW 20 GPM / 40 LB FLOOR MOUNTED GREASE INTERCEPTOR GL-1, PDI APPROVED, ZURN GT-2701-20. ROUTE 3/4" VENT FROM MANUFACTURER'S FLOW CONTROL FITTING A/F & UP
- 6 3/4" V DN
- 7 4" S B/G, SEE CIVIL DWG FOR CONT
- 8 1/2" CW & 1/2" 140°HW TO FIXTURE
- 9 1/2" CW & 1/2" 140°HW TO FIXTURE, PROVIDE MIXING VALVE MV-1 TO TEMPER HW TO 110°
- 10 1/2" CW & 1/2" 140°HW DN TO MOP SINK FAUCET WITH INTEGRAL VACUUM BREAKER
- 11 1/2" CW & 1/2" HW DN
- 12 3/4" VALVED (IN ACCESSIBLE LOCATION) CW DN
- 13 3/4" CW & 3/4" 140°HW TO PLATFORM MOUNTED WATER HEATER. INSTALLATION ABOVE CEILING IN AN ACCESSIBLE LOCATION, SEE DETAIL.
- 14 1" DOMESTIC WATER SERVICE UP WITH SHUTOFF VALVE & PRESSURE GAUGE. PROVIDE PRESSURE REDUCING VALVE IF INCOMING PRESSURE EXCEEDS 80PSI.
- 15 1" DOMESTIC WATER SERVICE B/G, SEE CIVIL DWG FOR CONTINUATION AND BACKFLOW PREVENTER.

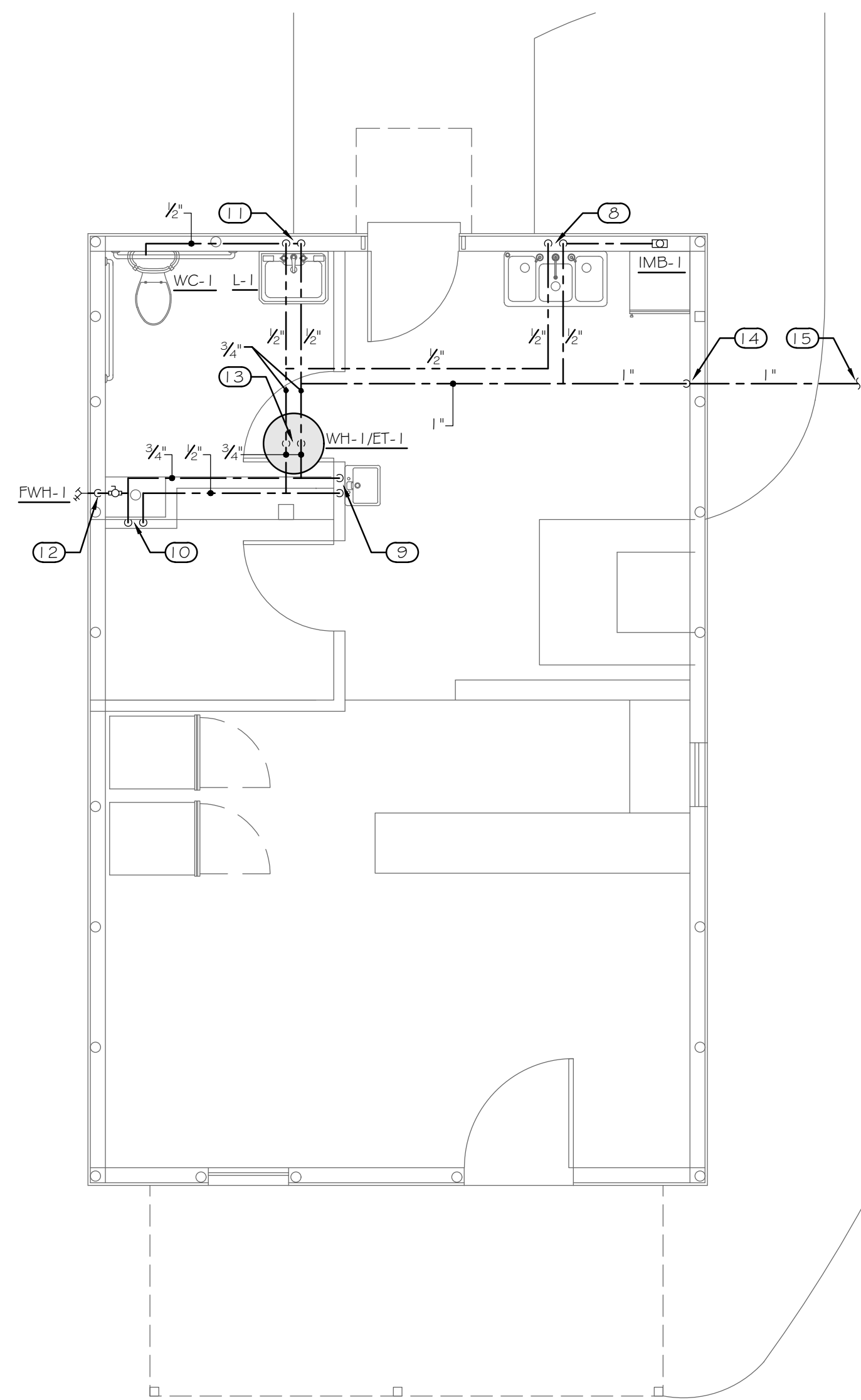


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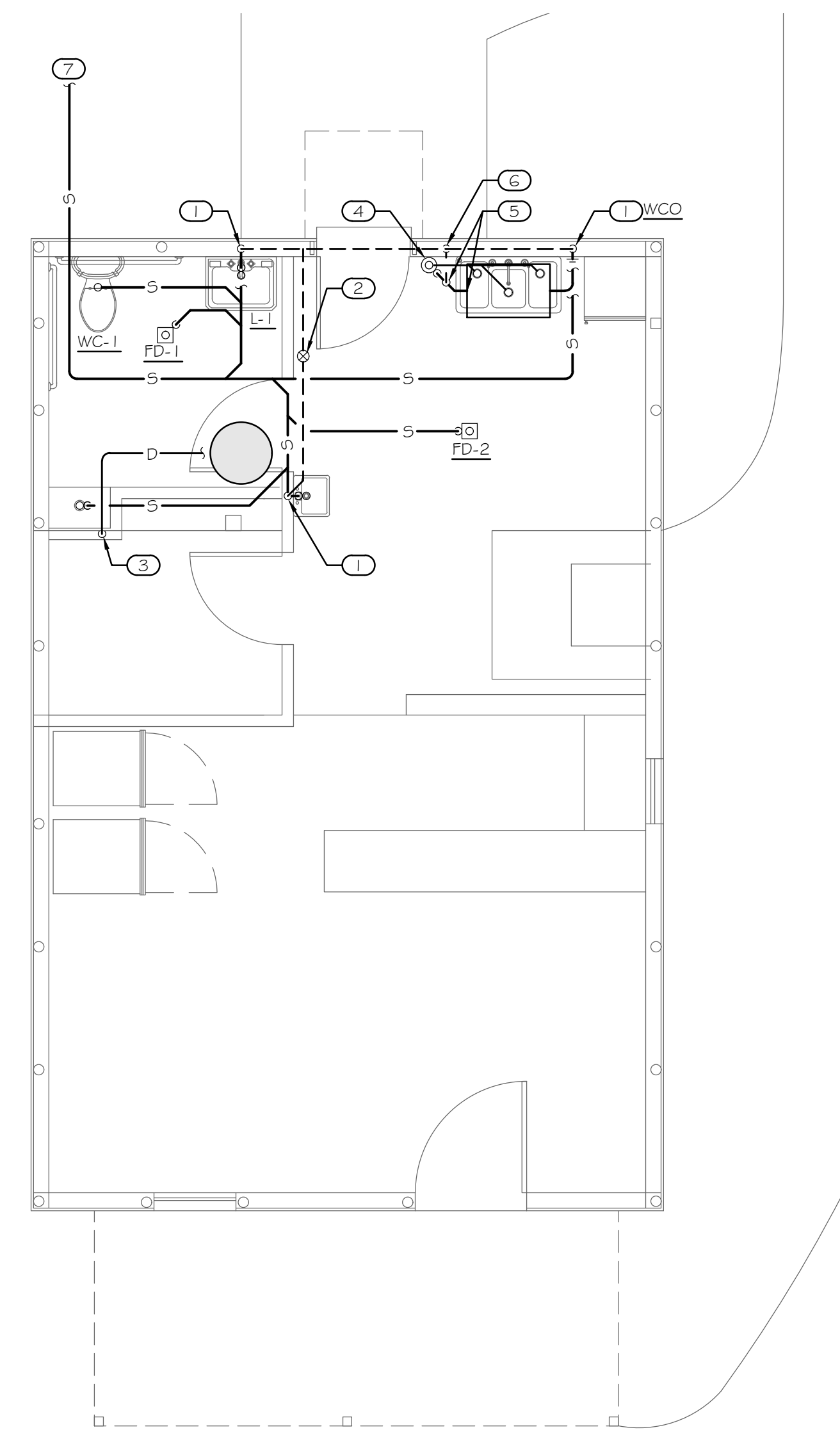
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2 FLOOR PLAN - SUPPLY
P2.01 1/4" = 1'-0"



1 FLOOR PLAN - WASTE & VENT
P2.01 1/4" = 1'-0"

Client Review Drawings For

WINTERVILLE BLACKSMITH SHOP
Winterville GA

July 31, 2024

P2.01

FLOOR PLANS

GENERAL NOTES:

- THE GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS SHALL COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS, INCLUDING THE SIZE AND LOCATION OF MISCELLANEOUS ITEMS AFFECTING THE STRUCTURAL WORK SUCH AS SMALL OPENINGS, PIPE SLEEVES, RECESSES, BENT PLATES, ETC. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR OMISSIONS. OPENINGS THROUGH BEAMS, GIRDERS AND/OR COLUMNS SHALL BE VERIFIED BY ENGINEER.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS PRIOR TO COMMENCING WORK. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONTRACT DOCUMENTS.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, RE-SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT SCALE DRAWINGS. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWINGS. ANY MISSING DIMENSIONS WILL BE FURNISHED UPON REQUEST.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- THESE GENERAL NOTES APPLY WHERE OTHER PROVISIONS ARE NOT PROVIDED BY THE DRAWINGS, SPECIFICATIONS OR TYPICAL DETAILS. IN CASE OF SPECIAL CONDITIONS INDICATED ON DRAWINGS, THE DRAWINGS SHALL GOVERN OVER THE SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING ALL SHORING, BRACING, AND STRUCTURAL SUPPORTS. TEMPORARY SHORING: PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN AS WELL AS ADJACENT EXISTING STRUCTURES, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ORDINANCES, AND THE INTERNATIONAL BUILDING CODE 2018.

ABBREVIATION (ALPHABETIZED):

A.B.	= ANCHOR BOLTS	HDR.	= HEADER
ARCH.	= ARCHITECT	HORZ.	= HORIZONTAL
C.J.	= CONTROL JOINT	INT.	= INTERIOR
C.I.P.	= CAST IN PLACE	MAX.	= MAXIMUM
CFR	= CARBON FIBER REINFORCEMENT	MANF.	= MANUFACTURER
CONC.	= CONCRETE	M.C.	= MOMENT CONNECTION
CONT.	= CONTINUOUS	MIN.	= MINIMUM
CONX.	= CONNECTION	O.C.	= ON CENTER
COORD.	= COORDINATE	O.W.T.	= OPEN WEB TRUSS
D&E	= DRILL & EPOXY	P.A.F.	= POWDER ACTUATED FASTENER
E.O.C.	= EDGE OF CONCRETE	REIN.	= REINFORCEMENT
E.W.	= EACH WAY	REQ.	= REQUIRED
EX.	= EXISTING	SIM.	= SIMILAR
EXP.	= EXPANSION	S.O.G.	= SLAB ON GRADE
EXT.	= EXTERIOR	STD.	= STANDARD
F.F.E.	= FINISH FLOOR ELEVATION	STL.	= STEEL
FLR.	= FLOOR	SO.	= SQUARE
FTG.	= FOOTING	T&B	= TOP & BOTTOM
GPR	= GROUND-PENETRATING RADAR	TYP.	= TYPICAL
GYP.	= GYPSUM BOARD	U.N.	= UNLESS NOTED
H.R.	= HANDRAIL	U.N.O.	= UNLESS NOTED OTHERWISE
		VERT.	= VERTICAL
		W.W.M.	= WELDED WIRE MESH

DESIGN NOTES	
REFERENCED CODES	
INTERNATIONAL BUILDING CODE	IBC 2018
MINIMUM DESIGN LOADS	ASCE-7 2016
MASONRY STRUCTURES	ACI 530 2013
STRUCTURAL CONCRETE	ACI 318 2014
STRUCTURAL STEEL	AISC 360 2016
COLD-FORMED STEEL	ASIS 5100 2016
DESIGN LOADS	
OCCUPANCY OR USE	UNIFORM DEAD/LIVE (psf)
ROOF	15 / 20
WIND DESIGN CRITERIA	
BASIC WIND SPEED (V _{mb}):	107 mph
FACTORED WIND SPEED (V _{amb}):	84 mph
RISK CATEGORY:	II
WIND EXPOSURE CLASSIFICATION:	C
INTERNAL PRESSURE COEFFICIENT:	±0.18
*REFER TO PROVIDED DIAGRAMS AND TABLES FOR COMPONENTS & CLADDING PRESSURES	
SEISMIC DESIGN CRITERIA	
RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (I _s):	I _s = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S _s = 0.213g S ₁ = 0.086g
SITE CLASS:	D (ASSUMED)
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S _{ds} = 0.227g S _{1s} = 0.138g
SEISMIC DESIGN CATEGORY:	C
BASIC SEISMIC-FORCE RESISTING SYSTEM(S):	LIGHT FRAME WALLS WITH WOOD STRUCTURAL PANELS
RESPONSE MODIFICATION FACTOR(S):	R = 6.5
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE

FOUNDATION:

- FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. THIS VALUE SHALL BE VERIFIED BY A REGISTERED SOIL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION. IF ACTUAL VALUES VARY BY MORE THAN TEN PERCENT FROM DESIGN BEARING PRESSURE, FOOTINGS SHALL BE REDESIGNED. ALL FOOTINGS ARE TO BE PLACED ON UNDISTURBED ORIGINAL SOIL OR COMPACTED FILL.
- ALL BACKFILLING SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY A REGISTERED SOILS ENGINEER. FILL MATERIAL TAKEN FROM SITE EXCAVATION SHALL HAVE OPTIMUM MOISTURE CONTENT FOR COMPACTION AND BE FREE OF ANY DEBRIS. BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D698, IN MAXIMUM LIFTS OF EIGHT INCHES. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WITHOUT PROVISIONS FOR ADEQUATE BRACING OF THESE WALLS.
- FILL MATERIAL SHALL BE ADEQUATELY DRAINED TO PREVENT ANY DAMAGE TO THE BUILDING'S FOUNDATION BY GROUND WATER FLOWS OR SURFACE WATER RUN-OFF.
- REMOVE ORGANIC MATERIALS AND LARGE ROCKS AND PROVIDE TERMITE TREATMENT PRIOR TO PLACING VAPOR BARRIER AND CONCRETE SLABS.
- ALL SOIL CONDITIONS ARE SUBJECT TO EVALUATION BY A SOILS ENGINEER PRIOR TO FOUNDATION CONSTRUCTION. SOILS WITHOUT ADEQUATE CAPACITY TO SUPPORT DESIGN LOADS MUST BE REPLACED OR MODIFIED PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ALL VAPOR RETARDERS TO BE MINIMUM 10MIL THICK AND CONFORM TO THE ASTM E1745 CLASS A UNLESS NOTED OTHERWISE WITH JOINTS LAPPED NOT LESS THAN 6". PLACE BETWEEN CONCRETE FLOOR SLAB AND GRANULAR BASE. PERMEABILITY SHALL BE CHOSEN ACCORDING TO THE ACI 302.2R-06. INSTALLATION OF VAPOR RETARDERS SHALL COMPLY WITH ASTM E1643-18A.
- SEE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHING REQUIREMENT.
- WHERE A UTILITY LINE PASSES UNDER A FOOTING, PROVIDE A STEEL OR PRECAST SLEEVE WITH MINIMUM 2" CLEAR ON ALL SIDES OF PIPE. CONDUTITS AND PIPES EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD THE OVERALL THICKNESS OF THE SLAB. SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER. A MINIMUM SLAB THICKNESS OF 2½" MUST BE MAINTAINED OVER EMBEDDED ITEMS.
- ANCHOR BOLTS ARE TO BE GRADE F1554, GR 36 AND EMBED 7" INTO THE FOUNDATION, AND PROJECT 4" MIN.

REINFORCING:

- CONCRETE REINFORCING STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A615, GRADE 40 FOR #3 BARS AND ASTM A615, GRADE 60 FOR #4 AND LARGER BARS. WELDED WIRE MESH SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A185.
 - DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315, LATEST EDITION.
 - REINFORCING STEEL SHALL BE SPLICED ONLY AS INDICATED ON THE PLANS. WHEN SPLICE LENGTHS ARE NOT GIVEN ON THE PLANS, THEY SHALL BE TAKEN FROM THE TABLE BELOW. USE "CLASS B" SPLICES UNLESS THE PLANS INDICATE "CLASS A".
- | BAR SIZE | CLASS "B" SPLICE | CLASS "A" SPLICE |
|----------|------------------|------------------|
| #3 | 28" | 22" |
| #4 | 37" | 29" |
| #5 | 47" | 36" |
| #6 | 56" | 43" |
| #7 | 81" | 63" |
| #8 | 93" | 72" |

LAPS SHOWN ABOVE WERE CALCULATED PER ACI 318-14 EQ.25.4.2.3_o FOR MATS, WALLS, BEAMS, COLUMNS AND SLABS. VALUES ASSUMED ARE: f'_c 3000 PSI, k_{tr}=0, 1" MIN COVER AND 2" MIN CLEAR BETWEEN BARS FOR #4, #5 AND #6 BARS, AND 1½" MIN COVER AND 3" MIN CLEAR BETWEEN BARS FOR #7 THRU #11 BARS. SHORTER LAPS MAY BE CALCULATED FOR SOME SPECIFIC CONDITIONS SUCH AS TIED BEAMS OR ADDITIONAL COVER. LAPS MUST BE INCREASED 50% PER ACI 318-14 FOR EPOXY COATED REBAR, OR 30% FOR LIGHTWEIGHT CONCRETE.

- ALL BAR HOOKS SHALL BE STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- SEE SECTIONS 19.3 & 20.6 OF ACI 318-14 FOR CONDITIONS NOT NOTED.
- DESIGN OF STRUCTURAL ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS AND COLUMNS IS IN ACCORDANCE WITH ACI 318, LATEST EDITION.

CONCRETE:

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE", EXCEPT AS NOTIFIED BY THE REQUIREMENTS OF THESE STRUCTURAL DRAWINGS.
- CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A DESIGNATED COMPRESSIVE STRENGTH (f'_c) IN 28 DAYS OF 3000 PSI WITH A 4" (±1") SLUMP UNLESS NOTED OTHERWISE. REFER TO CONCRETE MIX SCHEDULE FOR ADDITIONAL CONCRETE STRENGTH AND DURABILITY REQUIREMENTS.
- CONCRETE COARSE AGGREGATE, WITH A MAXIMUM SIZE OF 1" MAY BE USED IN FOUNDATIONS. ALL OTHER CONCRETE SHALL HAVE A COARSE AGGREGATE WITH A MAXIMUM SIZE OF ¾".
- CONCRETE MIXING, TRANSPORTING, PLACING, AND CURING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 301. READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH REQUIREMENTS OF ASTM C94 OR ASTM C885.
- ALL EQUIPMENT FOR MIXING AND TRANSPORTING CONCRETE SHALL BE CLEAN. ALL DEBRIS, WATER AND ICE SHALL BE REMOVED PRIOR TO PLACING CONCRETE. FORMS SHALL BE PROPERLY COATED. MASONRY FILLER UNITS THAT WILL BE IN CONTACT WITH CONCRETE SHALL BE WELL DRENCHED. REINFORCEMENT SHALL BE CLEAN OF ICE OR OTHER DELETERIOUS COATING. ALL LATANCE AND OTHER UNSOUND MATERIAL SHALL BE REMOVED BEFORE ADDITIONAL CONCRETE IS PLACED AGAINST HARDENED CONCRETE.
- NO CONSTRUCTION LOADS SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH REMAINING FORMING AND SHORING SYSTEM HAS SUFFICIENT STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND LOADS PLACED THEREON.
- THE CLEAR DISTANCE BETWEEN REINFORCING BARS, BUNDLED BARS, PRE-STRESSING TENDONS, AND DUCTS SHALL BE IN ACCORDANCE WITH THE LIMITATIONS OF ACI 318.
- MINIMUM COVER FOR CAST-IN-PLACE CONCRETE REINFORCEMENT:

(a) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
(b) CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS	2
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1½

WOOD:

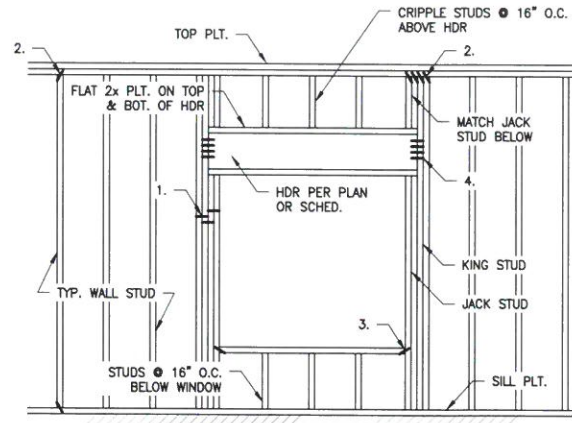
- ALL CONVENTIONAL TIMBER CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" 2018 BY THE AMERICAN WOOD COUNCIL. ALL STUDS SHALL BE #2 SPRUCE-PINE-FIR OR BETTER. ALL OTHER TIMBER SHALL BE STRUCTURALLY GRADED #2 SOUTHERN PINE OR BETTER UNLESS NOTED OTHERWISE. PLYWOOD CONSTRUCTION SHALL UTILIZE AMERICAN PLYWOOD ASSOCIATION RATED MATERIALS.
- ALL TIMBER IN CONTACT WITH CONCRETE OR MASONRY WITHIN 6" OF GRADE, OR REMAIN EXPOSED TO WEATHER SHALL BE PRESSURE TREATED #2 SOUTHERN PINE, AWPA STANDARD U1.
- AT LOAD BEARING WALLS, TOP PLATE SHALL BE DOUBLE, SILL PLATE SHALL BE SINGLE. ALL LOAD BEARING WALLS SHALL BE CONSTRUCTED OF STUDS AND PLATES WITH A MOISTURE CONTENT ≤ 19%.
- FOR SHINGLE/METAL - ROOF SHEATHING SHALL BE 24/16 ¾" MIN. APA RATED SHEATHING U.N.O., LAID WITH FACE GRAIN PERPENDICULAR TO THE FRAMING AND STAGGERED 4'-0". MINIMUM NAILING SHALL BE 8d NAILS @ 6" O.C. ALL UNSUPPORTED EDGES OF PLYWOOD SHEATHING SHALL BE SUPPORTED WITH SIMPSON PSCS CLIPS, PROVIDE (1) CLIP EQUALLY SPACED BETWEEN EACH TRUSS/SUPPORT. CLIPS NOT REQUIRED FOR TONGUE AND GROOVE SHEATHING.
- ALL EXTERIOR WALL SHEATHING AND SHEAR PANEL SHEATHING SHALL BE ½" PLYWOOD U.N.O. MINIMUM NAILING SHALL BE 8d x 2½" LONG NAILS SPACED AT 6" O.C. ON PANEL EDGES AND 12" O.C. AT FIELD. CONTRACTOR TO INSPECT ALL NAILING BEFORE EXTERIOR VENEER IS PLACED. DRYWALL NAILING TO BE APPROVED BEFORE TAPING. PROVIDE STEEL PLATE WASHERS @ EXTERIOR WALL AND SHEAR PANEL ANCHOR BOLTS. SEE NOTE BELOW FOR TYPICAL BOLT SIZE & SPACING. AT 2x4 WALLS, WASHERS SHALL BE MINIMUM 3"x3" ¼" STEEL PLATE (SIMPSON BPS ½-3 OR EQUIVALENT), AT 2x6 WALLS, WASHERS SHALL BE MINIMUM 3"x4" ¼" STEEL PLATE (SIMPSON BPS ½-6 OR EQUIVALENT) ORIENTED WITH LONG DIRECTION PERPENDICULAR TO WALL.
- BEAMS DESIGNATED ON THE PLANS AS LVL SHALL BE VERSA-LAM LVL MANUFACTURED BY BOISE CASCADE, OR APPROVED ALTERNATE. ALL LVL BEAMS SHALL BE 2.0E-3100 Fb.
- DURING CONSTRUCTION, PROVIDE BRACING FOR FRAMING UNTIL ALL ELEMENTS FOR EXTERIOR SHEAR WALLS AND FLOOR DIAPHRAGMS ARE IN PLACE.
- UNLESS DETAILED SPECIFICALLY OTHERWISE, USE A METAL CONNECTOR AT ALL BEAM & TRUSS SUPPORTS, BEAM TO BEAM, POST TO BEAM, AND POST TO FLOOR CONNECTIONS. USE SIMPSON PRODUCTS, OR AN APPROVED EQUAL, SIZED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS FOR CONNECTION TYPE AND LOADS ENCOUNTERED.
- PROVIDE ½" ANCHOR BOLT W/ NUT & WASHER AT SILL PLATE, @ 3'-0" O.C. & 7" MIN. EMBEDMENT. PROVIDE (2) A.B. MIN. PER SILL PLATE SEGMENT W/ (1) A.B. LOCATED @ 4" MIN. & 12" MAX. FROM ENDS.
- ALL NAILS REFERENCED IN THE DRAWINGS (UNLESS NOTED OTHERWISE) ARE COMMON WIRE NAILS TO BE SIZED AS FOLLOWS:
8d = 0.131"
10d = 0.148"
16d = 0.162"

STANDARD SHORING NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF TEMPORARY SHORING POSTS/TOWERS AND HYDRAULIC JACKS.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, RE-SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING ALL SHORING, BRACING, AND STRUCTURAL SUPPORTS. TEMPORARY SHORING: PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN AS WELL AS ADJACENT EXISTING STRUCTURES, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
- REMOVAL OF TEMPORARY SHORING SHOULD ONLY OCCUR AFTER THE PERMANENT FLOOR SYSTEM IS CONSTRUCTED, AND ABLE TO RESIST THE FULL SERVICE LOAD.

MASONRY REPAIR/REPOINTING PROCESS:

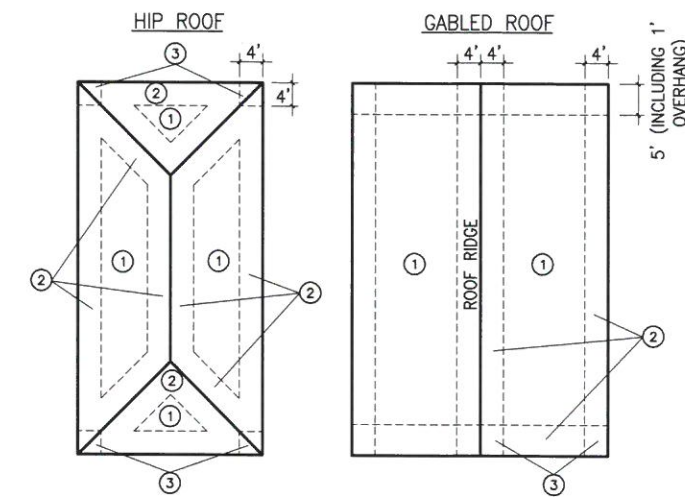
- REMOVE DISLODGED OR LOOSE BRICKS IN WALL FACE AS REQUIRED FOR REPLACEMENT AND REPOINTING. RECOUSE MASONRY ABOVE REPLACED LINTELS IF EXISTING MASONRY HAS SETTLED OR OTHERWISE MOVED/SHIFTED.
- CLEAN THE BRICKS AND MASONRY BY PRESSURE WASHING THE WALLS USING THE LOWEST PRESSURE POSSIBLE TO REMOVE DIRT & PAINT. IF REQUIRED, USE A SOFT BRISTLED SCRUB BRUSH TO REMOVE ORGANIC MATERIAL; DO NOT USE A METAL BRUSH.
- REMOVE THE OLD MORTAR TO A MINIMUM DEPTH OF 2-2.5 TIMES THE WIDTH OF THE JOINT. ANY ADDITIONAL SOFT OR LOOSE MORTAR SHOULD ALSO BE REMOVED. USE CARE WHILE REMOVING MORTAR FROM JOINTS. HAND TOOLS ARE PREFERRED TO POWER TOOLS FOR REMOVAL TO ENSURE MASONRY UNITS STAY INTACT.
- RINSE THE MORTAR JOINTS TO REMOVE ANY LOOSE PARTICLES PRIOR TO APPLICATION OF NEW MORTAR. APPLY NEW MORTAR IN LAYERS TO MINIMIZE MORTAR SHRINKAGE DURING THE DRYING PROCESS.
- ENSURE NEW MORTAR IS PACKED TIGHTLY, FILLING ALL VOIDS IN MASONRY JOINTS. FOR DEEP REPAIRS, APPLY NEW MORTAR IN LAYERS TO MINIMIZE MORTAR SHRINKAGE DURING THE DRYING PROCESS.
- FINISH MORTAR JOINTS TO MATCH THE ORIGINAL CONSTRUCTION OR AS DESIGNATED BY ARCHITECT.



JACK/KING STUD SCHEDULE			
CALLOUT	STUDS	JACK STUD	KING STUD
P5	(5) GANGED STUDS	(3) STUDS	(2) STUDS
P4	(4) GANGED STUDS	(2) STUDS	(2) STUDS
P3	(3) GANGED STUDS	(2) STUDS	(1) STUD
P2	(2) GANGED STUDS	(1) STUD	(1) STUD

WOOD HEADER SCHEDULE			
SPAN, LESS THAN	LOAD BEARING WALL	NON BEARING WALL	KING STUDS
2'-0"	(2) 2x8** OR (3) 2x6*	(2) 2x6* OR (3) 2x4*	(1)
4'-0"	(2) 2x10* OR (3) 2x8*	(2) 2x8* OR (3) 2x6*	(2)
6'-0"	(2) 7½" LVL** OR (3) 2x12**	(2) 2x10* OR (3) 2x8*	(2)
8'-0"	(2) 9½" LVL** OR (3) 7½" LVL**	(2) 2x12* OR (3) 2x10*	(3)
10'-0"	(2) 11½" LVL** OR (3) 9½" LVL**	(2) 2x12* OR (3) 2x10*	(4)

- NOTES:
1. PROVIDE FULL-HEIGHT KING STUDS TO MATCH THE NUMBER OF STUDS REPLACED BY THE OPENING, HALF (ROUND UP) PLACED ON EACH SIDE OF THE OPENING.
2. USE (2) PLY HEADER AT 2x4 WALLS AND (3) PLY HEADER AT 2x6 WALLS.
3. *(1) JACK STUD; *(2) JACK STUDS



WOOD STRUCTURAL PANEL ROOF SHEATHING + NAILING SCHEDULE		ROOF FASTENING ZONES ^(c)			
SHEATHING THICKNESS	NAILS	PANEL LOCATION	FASTENING SCHEDULE (INCHES ON CENTER)		
			(1)	(2)	(3)
½" OR LESS	8d COMMON	PANEL EDGE ^(a)	6	4 ^(a)	3 ^(a)
		PANEL FIELD	6	6 ^(a)	3 ^(a)
1½" OR GREATER	10d COMMON	PANEL EDGE ^(a)	6	4 ^(a)	3 ^(a)
		PANEL FIELD	6	6 ^(a)	3 ^(a)

- NOTES:
(a) EDGE SPACING ALSO APPLIES OVER ROOF FRAMING AT GABLE END WALLS.
(b) USE RING-SHANK NAILS IN THIS ZONE.
(c) ROOF FASTENING ZONES CORRESPOND TO WIND ZONE DIAGRAMS SHOWN ON S.O.

TYP. ATTACHMENTS

- STUD TO STUD IN BUILT-UP STUD PACK, 10d NAILS @ 8" O.C. STAGGERED EA. PLY
- STUD TO TOP & SILL PLATES, (4) 10d TOENAILS OR (2) 16d END NAILS
- SILL TO JAMB STUD, (4) 10d TOENAILS OR (2) 16d END NAILS
- JAMB STUD TO HDR, (4) 10d END NAILS EA. PLY

Handwritten signature: D. D. D.



ISSUED FOR CONSTRUCTION

WINTERVILLE, GA - BLACKSMITH SHOP

GENERAL NOTES

SCALE: NOTED
DATE: 06/14/2024
DRAWN BY: SBP/ILK
CHKD BY: PDC

S^e STABILITY ENGINEERING

PROJECT NO: SBP24257

SHEET 1 OF 3

REV 0

1176 Church St. Ste 200, Decatur, GA 30030 PH: 404-377-6516

GENERAL NOTES:

- THE GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS SHALL COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS, INCLUDING THE SIZE AND LOCATION OF MISCELLANEOUS ITEMS AFFECTING THE STRUCTURAL WORK SUCH AS SMALL OPENINGS, PIPE SLEEVES, RECESSES, BENT PLATES, ETC. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR OMISSIONS. OPENINGS THROUGH BEAMS, GIRDERS AND/OR COLUMNS SHALL BE VERIFIED BY ENGINEER.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS PRIOR TO COMMENCING WORK. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONTRACT DOCUMENTS.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, RE-SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT SCALE DRAWINGS. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWING. ANY MISSING DIMENSIONS WILL BE FURNISHED UPON REQUEST.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- THESE GENERAL NOTES APPLY WHERE OTHER PROVISIONS ARE NOT PROVIDED BY THE DRAWINGS, SPECIFICATIONS OR TYPICAL DETAILS. IN CASE OF SPECIAL CONDITIONS INDICATED ON DRAWINGS, THE DRAWINGS SHALL GOVERN OVER THE SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING ALL SHORING, BRACING, AND STRUCTURAL SUPPORTS. TEMPORARY SHORING: PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN AS WELL AS ADJACENT EXISTING STRUCTURES, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ORDINANCES, AND THE INTERNATIONAL BUILDING CODE 2018.

ABBREVIATION (ALPHABETIZED):			
A.B.	= ANCHOR BOLTS	HDR.	= HEADER
ARCH.	= ARCHITECT	HORZ.	= HORIZONTAL
C.J.	= CONTROL JOINT	INT.	= INTERIOR
C.I.P.	= CAST IN PLACE	MAX.	= MAXIMUM
CFR	= CARBON FIBER REINFORCEMENT	MANF.	= MANUFACTURER
CONC.	= CONCRETE	M.C.	= MOMENT CONNECTION
CONT.	= CONTINUOUS	MIN.	= MINIMUM
CONX.	= CONNECTION	O.C.	= ON CENTER
COORD.	= COORDINATE	O.W.T.	= OPEN WEB TRUSS
D&E	= DRILL & EPOXY	P.A.F.	= POWDER ACTUATED FASTENER
E.O.C.	= EDGE OF CONCRETE	REINF.	= REINFORCEMENT
E.W.	= EACH WAY	REQ.	= REQUIRED
EX.	= EXISTING	SIM.	= SIMILAR
EXP.	= EXPANSION	S.O.G.	= SLAB ON GRADE
EXT.	= EXTERIOR	STD.	= STANDARD
F.F.E.	= FINISH FLOOR ELEVATION	STL.	= STEEL
FLR.	= FLOOR	SQ.	= SQUARE
FTG.	= FOOTING	T&B	= TOP & BOTTOM
GPR	= GROUND-PENETRATING RADAR	TYP.	= TYPICAL
GYP.	= GYPSUM BOARD	U.N.	= UNLESS NOTED
H.R.	= HANDRAIL	U.N.O.	= UNLESS NOTED OTHERWISE
		VERT.	= VERTICAL
		W.W.M.	= WELDED WIRE MESH

DESIGN NOTES	
REFERENCED CODES	
INTERNATIONAL BUILDING CODE	IBC 2018
MINIMUM DESIGN LOADS	ASCE-7 2016
MASONRY STRUCTURES	ACI 530 2013
STRUCTURAL CONCRETE	ACI 318 2014
STRUCTURAL STEEL	ASCE 360 2016
COLD-FORMED STEEL	ANSI S100 2016
DESIGN LOADS	
OCCUPANCY OR USE	UNIFORM DEAD/LIVE (psf)
ROOF	15 / 20
WIND DESIGN CRITERIA	
BASIC WIND SPEED (V _{ult}):	107 mph
FACTORED WIND SPEED (V _{desd}):	84 mph
RISK CATEGORY:	II
WIND EXPOSURE CLASSIFICATION:	C
INTERNAL PRESSURE COEFFICIENT:	±0.18
*REFER TO PROVIDED DIAGRAMS AND TABLES FOR COMPONENTS & CLADDING PRESSURES	
SEISMIC DESIGN CRITERIA	
RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (I _s):	I _s = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S _s = 0.213g S ₁ = 0.086g
SITE CLASS:	D (ASSUMED)
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S ₁₀ = 0.227g S ₁₁ = 0.138g
SEISMIC DESIGN CATEGORY:	C
BASIC SEISMIC-FORCE RESISTING SYSTEM(S):	LIGHT FRAME WALLS WITH WOOD STRUCTURAL PANELS
RESPONSE MODIFICATION FACTOR(S):	R = 6.5
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE

FOUNDATION:

- FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. THIS VALUE SHALL BE VERIFIED BY A REGISTERED SOIL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION. IF ACTUAL VALUES VARY BY MORE THAN TEN PERCENT FROM DESIGN BEARING PRESSURE, FOOTINGS SHALL BE REDESIGNED. ALL FOOTINGS ARE TO BE PLACED ON UNDISTURBED ORIGINAL SOIL OR COMPACTED FILL.
- ALL BACKFILLING SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY A REGISTERED SOILS ENGINEER. FILL MATERIAL TAKEN FROM SITE EXCAVATION SHALL HAVE OPTIMUM MOISTURE CONTENT FOR COMPACTION AND BE FREE OF ANY DEBRIS. BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D698, IN MAXIMUM LIFTS OF EIGHT INCHES. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WITHOUT PROVISIONS FOR ADEQUATE BRACING OF THESE WALLS.
- FILL MATERIAL SHALL BE ADEQUATELY DRAINED TO PREVENT ANY DAMAGE TO THE BUILDING'S FOUNDATION BY GROUND WATER FLOWS OR SURFACE WATER RUN-OFF.
- REMOVE ORGANIC MATERIALS AND LARGE ROCKS AND PROVIDE TERMITE TREATMENT PRIOR TO PLACING VAPOR BARRIER AND CONCRETE SLABS.
- ALL SOIL CONDITIONS ARE SUBJECT TO EVALUATION BY A SOILS ENGINEER PRIOR TO FOUNDATION CONSTRUCTION. SOILS WITHOUT ADEQUATE CAPACITY TO SUPPORT DESIGN LOADS MUST BE REPLACED OR MODIFIED PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ALL VAPOR RETARDERS TO BE MINIMUM 10MIL THICK AND CONFORM TO THE ASTM E1745 CLASS A UNLESS NOTED OTHERWISE WITH JOINTS LAPPED NOT LESS THAN 6". PLACE BETWEEN CONCRETE FLOOR SLAB AND GRANULAR BASE. PERMEABILITY SHALL BE CHOSEN ACCORDING TO THE ACI 302.2R-06. INSTALLATION OF VAPOR RETARDERS SHALL COMPLY WITH ASTM E1643-18A.
- SEE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHING REQUIREMENT.
- WHERE A UTILITY LINE PASSES UNDER A FOOTING, PROVIDE A STEEL OR PRECAST SLEEVE WITH MINIMUM 2" CLEAR ON ALL SIDES OF PIPE. CONDUITS AND PIPES EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD THE OVERALL THICKNESS OF THE SLAB, SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER. A MINIMUM SLAB THICKNESS OF 2½" MUST BE MAINTAINED OVER EMBEDDED ITEMS.
- ANCHOR BOLTS ARE TO BE GRADE F1554, GR 36 AND EMBED 7" INTO THE FOUNDATION, AND PROJECT 4" MIN.

REINFORCING:

- CONCRETE REINFORCING STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A615, GRADE 40 FOR #3 BARS AND ASTM A615, GRADE 60 FOR #4 AND LARGER BARS. WELDED WIRE MESH SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A185.
 - DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315, LATEST EDITION.
 - REINFORCING STEEL SHALL BE SPLICED ONLY AS INDICATED ON THE PLANS. WHEN SPLICE LENGTHS ARE NOT GIVEN ON THE PLANS, THEY SHALL BE TAKEN FROM THE TABLE BELOW. USE "CLASS B" LAPS UNLESS THE PLANS INDICATE "CLASS A".
- | BAR SIZE | CLASS "B" SPLICE | CLASS "A" SPLICE |
|----------|------------------|------------------|
| #3 | 28" | 22" |
| #4 | 37" | 29" |
| #5 | 47" | 36" |
| #6 | 56" | 43" |
| #7 | 81" | 63" |
| #8 | 93" | 72" |

LAPS SHOWN ABOVE WERE CALCULATED PER ACI 318-14 EQ.25.4.2.3g FOR MATS, WALLS, BEAMS, COLUMNS AND SLABS. VALUES ASSUMED ARE: f'c 3000 PSI, Ktr=0, 1" MIN COVER AND 2" MIN CLEAR BETWEEN BARS FOR #4, #5 AND #6 BARS, AND 1½" MIN COVER AND 3" MIN CLEAR BETWEEN BARS FOR #7 THRU #11 BARS. SHORTER LAPS MAY BE CALCULATED FOR SOME SPECIFIC CONDITIONS SUCH AS TIED BEAMS OR ADDITIONAL COVER. LAPS MUST BE INCREASED 50% PER ACI 318-14 FOR EPOXY COATED REBAR, OR 30% FOR LIGHTWEIGHT CONCRETE.

- ALL BAR HOOKS SHALL BE STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- SEE SECTIONS 19.3 & 20.6 OF ACI 318-14 FOR CONDITIONS NOT NOTED.
- DESIGN OF STRUCTURAL ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS AND COLUMNS IS IN ACCORDANCE WITH ACI 318, LATEST EDITION.

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- CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A DESIGNATED COMPRESSIVE STRENGTH (F'c) IN 28 DAYS OF 3000 PSI WITH A 4" (±1") SLUMP UNLESS NOTED OTHERWISE. REFER TO CONCRETE MIX SCHEDULE FOR ADDITIONAL CONCRETE STRENGTH AND DURABILITY REQUIREMENTS.
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- NO CONSTRUCTION LOADS SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH REMAINING FORMING AND SHORING SYSTEM HAS SUFFICIENT STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND LOADS PLACED THEREON.
- THE CLEAR DISTANCE BETWEEN REINFORCING BARS, BUNDLED BARS, PRE-STRESSING TENDONS, AND DUCTS SHALL BE IN ACCORDANCE WITH THE LIMITATIONS OF ACI 318.
- MINIMUM COVER FOR CAST-IN-PLACE CONCRETE REINFORCEMENT:

	MINIMUM COVER (IN)
(a) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
(b) CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS	2
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1½

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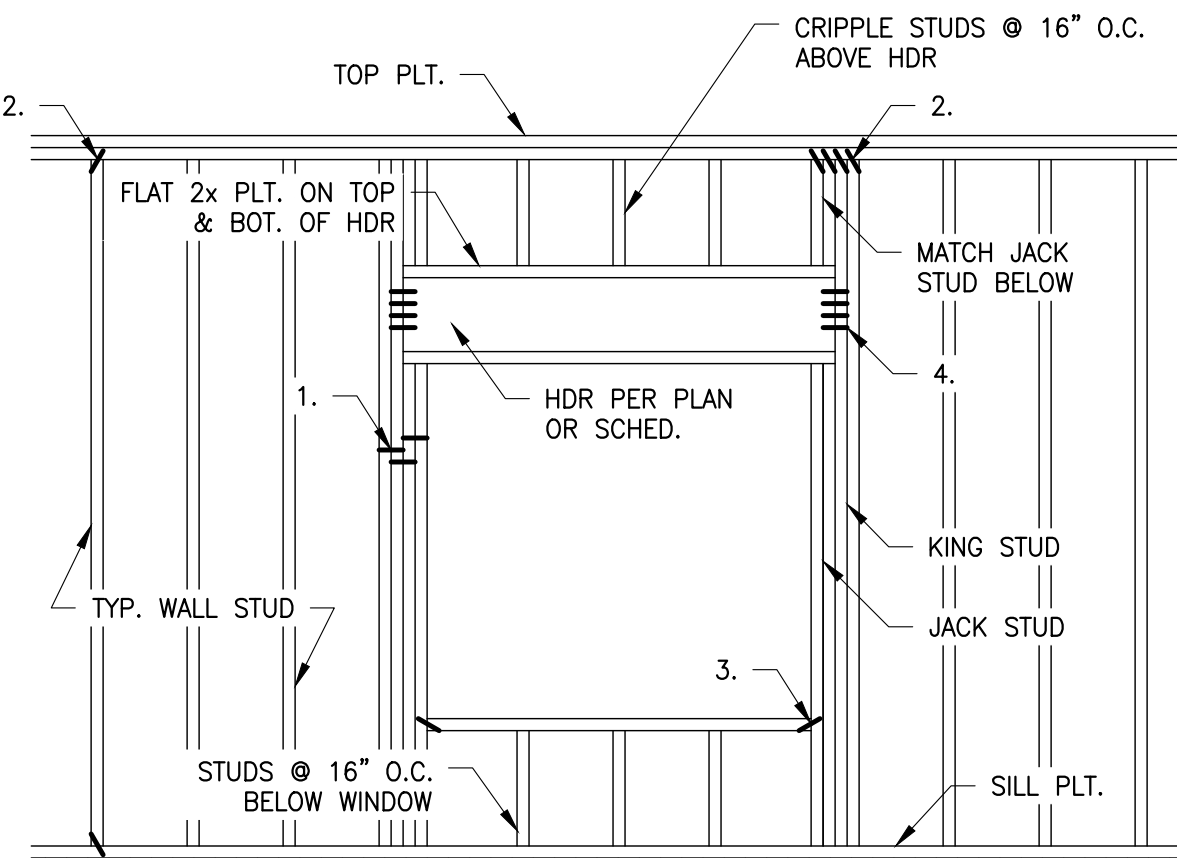
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- ALL TIMBER IN CONTACT WITH CONCRETE OR MASONRY WITHIN 6" OF GRADE, OR REMAIN EXPOSED TO WEATHER SHALL BE PRESSURE TREATED #2 SOUTHERN PINE, AWPA STANDARD U1.
- AT LOAD BEARING WALLS, TOP PLATE SHALL BE DOUBLE, SILL PLATE SHALL BE SINGLE. ALL LOAD BEARING WALLS SHALL BE CONSTRUCTED OF STUDS AND PLATES WITH A MOISTURE CONTENT ≤ 19%.
- FOR SHINGLE/METAL - ROOF SHEATHING SHALL BE 24/16 7/8" MIN. APA RATED SHEATHING U.N.O., LAID WITH FACE GRAIN PERPENDICULAR TO THE FRAMING AND STAGGERED 4'-0". MINIMUM NAILING SHALL BE 8d NAILS @ 6" O.C. ALL UNSUPPORTED EDGES OF PLYWOOD SHEATHING SHALL BE SUPPORTED WITH SIMPSON PSLC CLIPS, PROVIDE (1) CLIP EQUALLY SPACED BETWEEN EACH TRUSS/SUPPORT. CLIPS NOT REQUIRED FOR TONGUE AND GROOVE SHEATHING.
- ALL EXTERIOR WALL SHEATHING AND SHEAR PANEL SHEATHING SHALL BE ½" PLYWOOD U.N.O. MINIMUM NAILING SHALL BE 8d x 2½" LONG NAILS SPACED AT 6" O.C. ON PANEL EDGES AND 12" O.C. AT FIELD. CONTRACTOR TO INSPECT ALL NAILING BEFORE EXTERIOR VENEER IS PLACED. DRYWALL NAILING TO BE APPROVED BEFORE TAPING. PROVIDE STEEL PLATE WASHERS @ EXTERIOR WALL AND SHEAR PANEL ANCHOR BOLTS, SEE NOTE BELOW FOR TYPICAL BOLT SIZE & SPACING. AT 2x4 WALLS, WASHERS SHALL BE MINIMUM 3"x3"x¼" STEEL PLATE (SIMPSON BPS ½-3 OR EQUIVALENT). AT 2x6 WALLS, WASHERS SHALL BE MINIMUM 3"x4"x¼" STEEL PLATE (SIMPSON BPS ½-6 OR EQUIVALENT) ORIENTED WITH LONG DIRECTION PERPENDICULAR TO WALL.
- BEAMS DESIGNATED ON THE PLANS AS LVL SHALL BE VERSA-LAM LVL MANUFACTURED BY BOISE CASCADE, OR APPROVED ALTERNATE. ALL LVL BEAMS SHALL BE 2.0E-3100 Fb.
- DURING CONSTRUCTION, PROVIDE BRACING FOR FRAMING UNTIL ALL ELEMENTS FOR EXTERIOR SHEAR WALLS AND FLOOR DIAPHRAGMS ARE IN PLACE.
- UNLESS DETAILED SPECIFICALLY OTHERWISE, USE A METAL CONNECTOR AT ALL BEAM & TRUSS SUPPORTS, BEAM TO BEAM, POST TO BEAM, AND POST TO FLOOR CONNECTIONS. USE SIMPSON PRODUCTS, OR AN APPROVED EQUAL, SIZED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS FOR CONNECTION TYPE AND LOADS ENCOUNTERED.
- PROVIDE ⅜" ANCHOR BOLT W/ NUT & WASHER AT SILL PLATE, @ 3'-0" O.C. & 7" MIN. EMBEDMENT. PROVIDE (2) A.B. MIN. PER SILL PLATE SEGMENT W/ (1) A.B. LOCATED @ 4" MIN. & 12" MAX. FROM ENDS.
- ALL NAILS REFERENCED IN THE DRAWINGS (UNLESS NOTED OTHERWISE) ARE COMMON WIRE NAILS TO BE SIZED AS FOLLOWS:
8d = 0.131"
10d = 0.148"
16d = 0.162"

STANDARD SHORING NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF TEMPORARY SHORING POSTS/TOWERS AND HYDRAULIC JACKS.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, RE-SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING ALL SHORING, BRACING, AND STRUCTURAL SUPPORTS. TEMPORARY SHORING: PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN AS WELL AS ADJACENT EXISTING STRUCTURES, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
- REMOVAL OF TEMPORARY SHORING SHOULD ONLY OCCUR AFTER THE PERMANENT FLOOR SYSTEM IS CONSTRUCTED, AND ABLE TO RESIST THE FULL SERVICE LOAD.

MASONRY REPAIR/REPOINTING PROCESS:

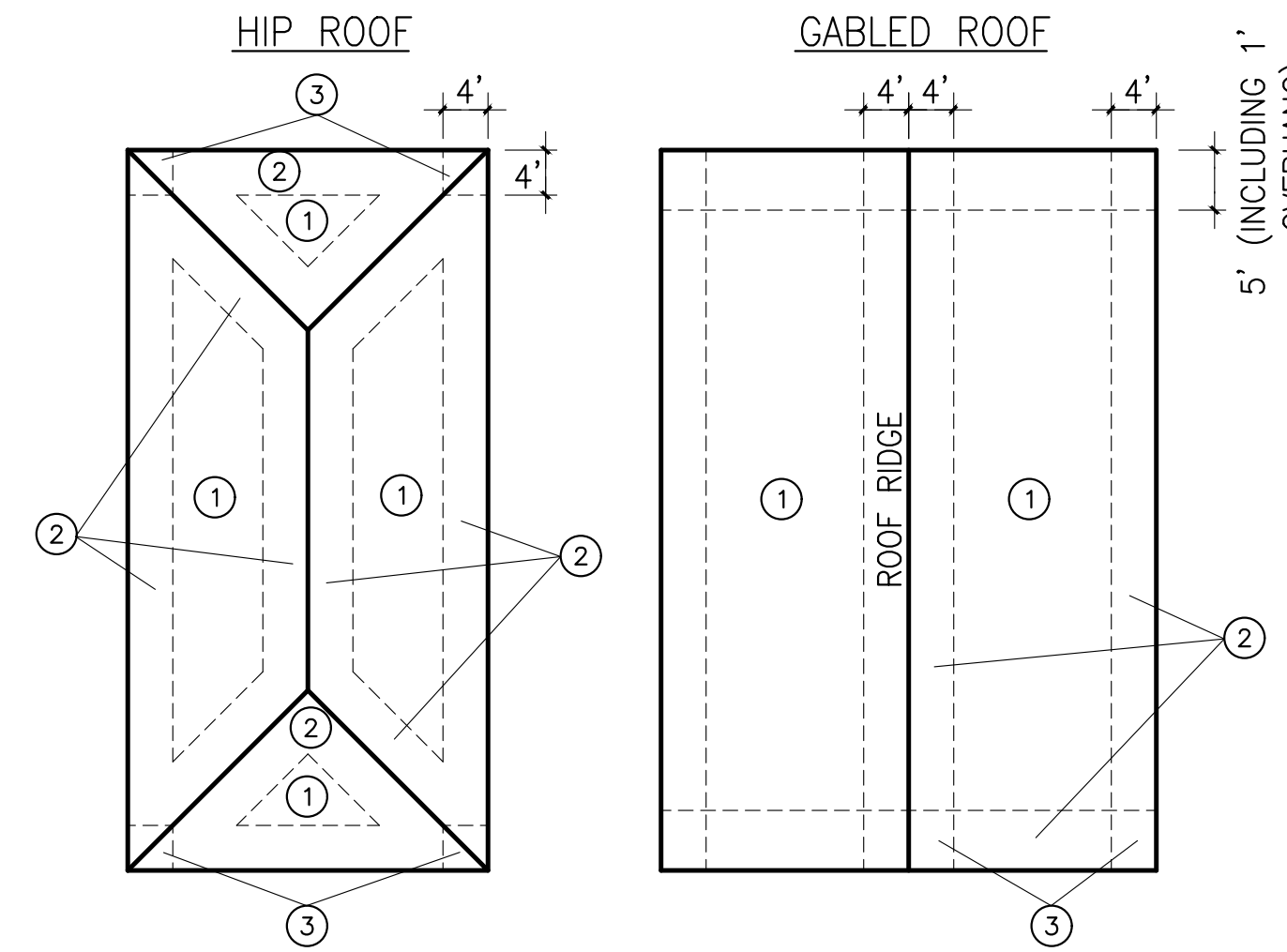
- REMOVE DISLODGED OR LOOSE BRICKS IN WALL FACE AS REQUIRED FOR REPLACEMENT AND REPOINTING. RECOUSE MASONRY ABOVE REPLACED LINTELS IF EXISTING MASONRY HAS SETTLED OR OTHERWISE MOVED/SHIFTED.
- CLEAN THE BRICKS AND MASONRY BY PRESSURE WASHING THE WALLS USING THE LOWEST PRESSURE POSSIBLE TO REMOVE DIRT & PAINT. IF REQUIRED, USE A SOFT BRISTLED SCRUB BRUSH TO REMOVE ORGANIC MATERIAL; DO NOT USE A METAL BRUSH.
- REMOVE THE OLD MORTAR TO A MINIMUM DEPTH OF 2-2.5 TIMES THE WIDTH OF THE JOINT. ANY ADDITIONAL SOFT OR LOOSE MORTAR SHOULD ALSO BE REMOVED. USE CARE WHILE REMOVING MORTAR FROM JOINTS. HAND TOOLS ARE PREFERRED TO POWER TOOLS FOR REMOVAL TO ENSURE MASONRY UNITS STAY INTACT.
- RINSE THE MORTAR JOINTS TO REMOVE ANY LOOSE PARTICLES PRIOR TO APPLICATION OF NEW MORTAR. APPLY NEW MORTAR WHILE JOINTS ARE DAMP FOR PROPER BONDING.
- ENSURE NEW MORTAR IS PACKED TIGHTLY, FILLING ALL Voids IN MASONRY JOINTS. FOR DEEP REPAIRS, APPLY NEW MORTAR IN LAYERS TO MINIMIZE MORTAR SHRINKAGE DURING THE DRYING PROCESS.
- FINISH MORTAR JOINTS TO MATCH THE ORIGINAL CONSTRUCTION OR AS DESIGNATED BY ARCHITECT.



JACK/KING STUD SCHEDULE			
CALLOUT	STUDS	JACK STUD	KING STUD
P5	(5) GANGED STUDS	(3) STUDS	(2) STUDS
P4	(4) GANGED STUDS	(2) STUDS	(2) STUDS
P3	(3) GANGED STUDS	(2) STUDS	(1) STUD
P2	(2) GANGED STUDS	(1) STUD	(1) STUD

WOOD HEADER SCHEDULE			
SPAN, LESS THAN	LOAD BEARING WALL	NON BEARING WALL	KING STUDS
2'-0"	(2) 2x8" OR (3) 2x6"	(2) 2x6" OR (3) 2x4"	(1)
4'-0"	(2) 2x10" OR (3) 2x8"	(2) 2x8" OR (3) 2x6"	(2)
6'-0"	(2) 7/8" LVL** OR (3) 2x12**	(2) 2x10" OR (3) 2x8"	(2)
8'-0"	(2) 9/4" LVL** OR (3) 7/4" LVL**	(2) 2x12" OR (3) 2x10"	(3)
10'-0"	(2) 11/4" LVL** OR (3) 9/4" LVL**	(2) 2x12" OR (3) 2x10"	(4)

NOTES:
1. PROVIDE FULL-HEIGHT KING STUDS TO MATCH THE NUMBER OF STUDS REPLACED BY THE OPENING, HALF (ROUND UP) PLACED ON EACH SIDE OF THE OPENING.
2. USE (2) PLY HEADER AT 2x4 WALLS AND (3) PLY HEADER AT 2x6 WALLS.
3. *(1) JACK STUD; **(2) JACK STUDS



WOOD STRUCTURAL PANEL ROOF SHEATHING + NAILING SCHEDULE			ROOF FASTENING ZONES ^(a)		
SHEATHING THICKNESS	NAILS	PANEL LOCATION	1	2	3
½" OR LESS	8d COMMON	PANEL EDGE ^(a)	6	4 ^(b)	3 ^(b)
		PANEL FIELD	6	6 ^(b)	3 ^(b)
½" OR GREATER	10d COMMON	PANEL EDGE ^(a)	6	4 ^(b)	3 ^(b)
		PANEL FIELD	6	6 ^(b)	3 ^(b)

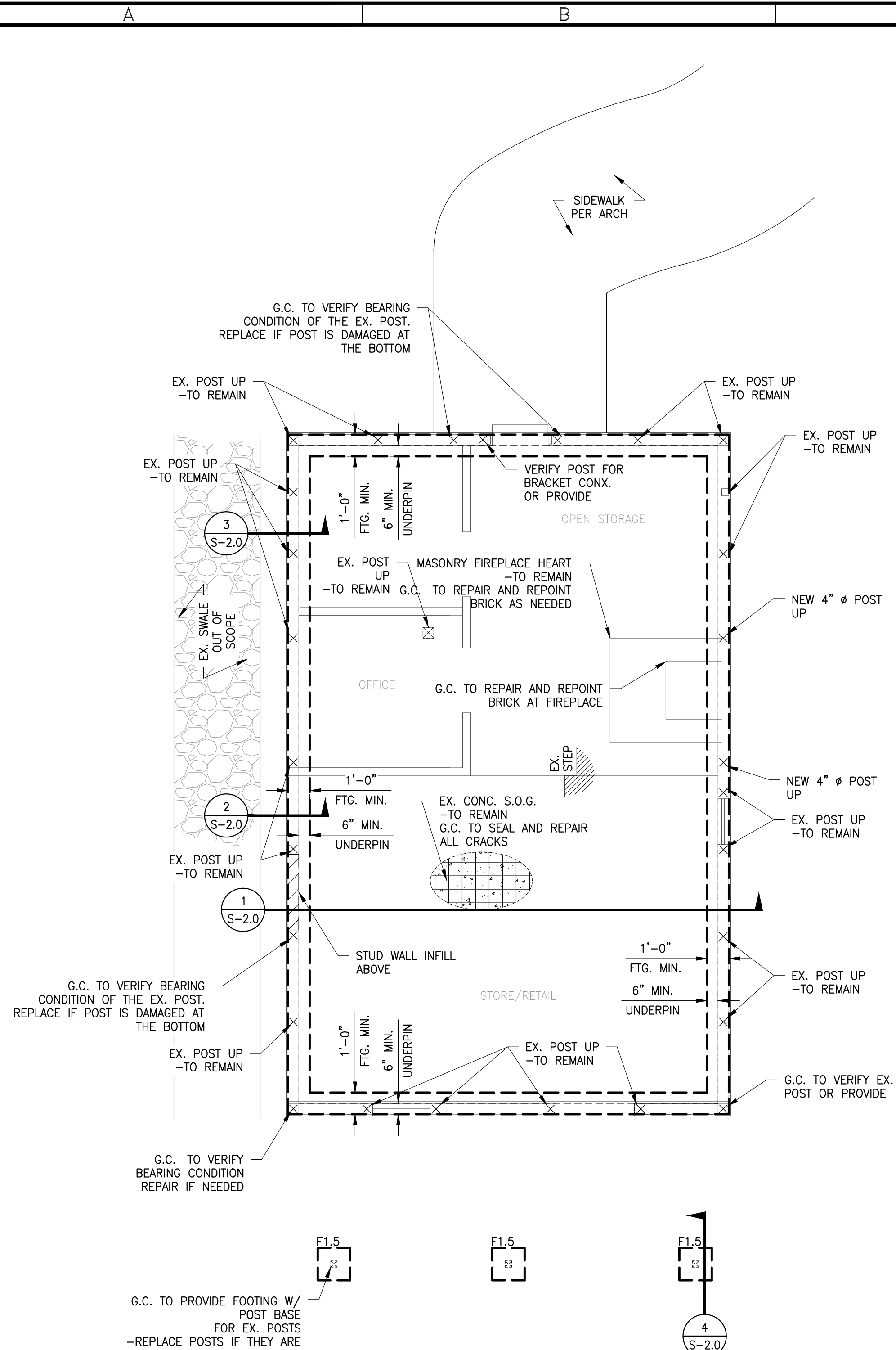
NOTES:
(a) EDGE SPACING ALSO APPLIES OVER ROOF FRAMING AT GABLE END WALLS.
(b) USE RING-SHANK NAILS IN THIS ZONE.
(c) ROOF FASTENING ZONES CORRESPOND TO WIND ZONE DIAGRAMS SHOWN ON SO.O.



ISSUED FOR CONSTRUCTION

WINTERVILLE, GA - BLACKSMITH SHOP		SCALE: NOTED	
GENERAL NOTES		DATE: 06/14/2024	
DRAWN BY: SBP/ILK		CHKD BY: PDC	
SHEET NUMBER: S-0.0		REV: 0	
PROJECT NO: SE#24257		SHT OF: 1/3	
1376 Church St. Ste 200, Decatur, GA 30030 PIVFax: 404-377-9316			

STABILITY ENGINEERING

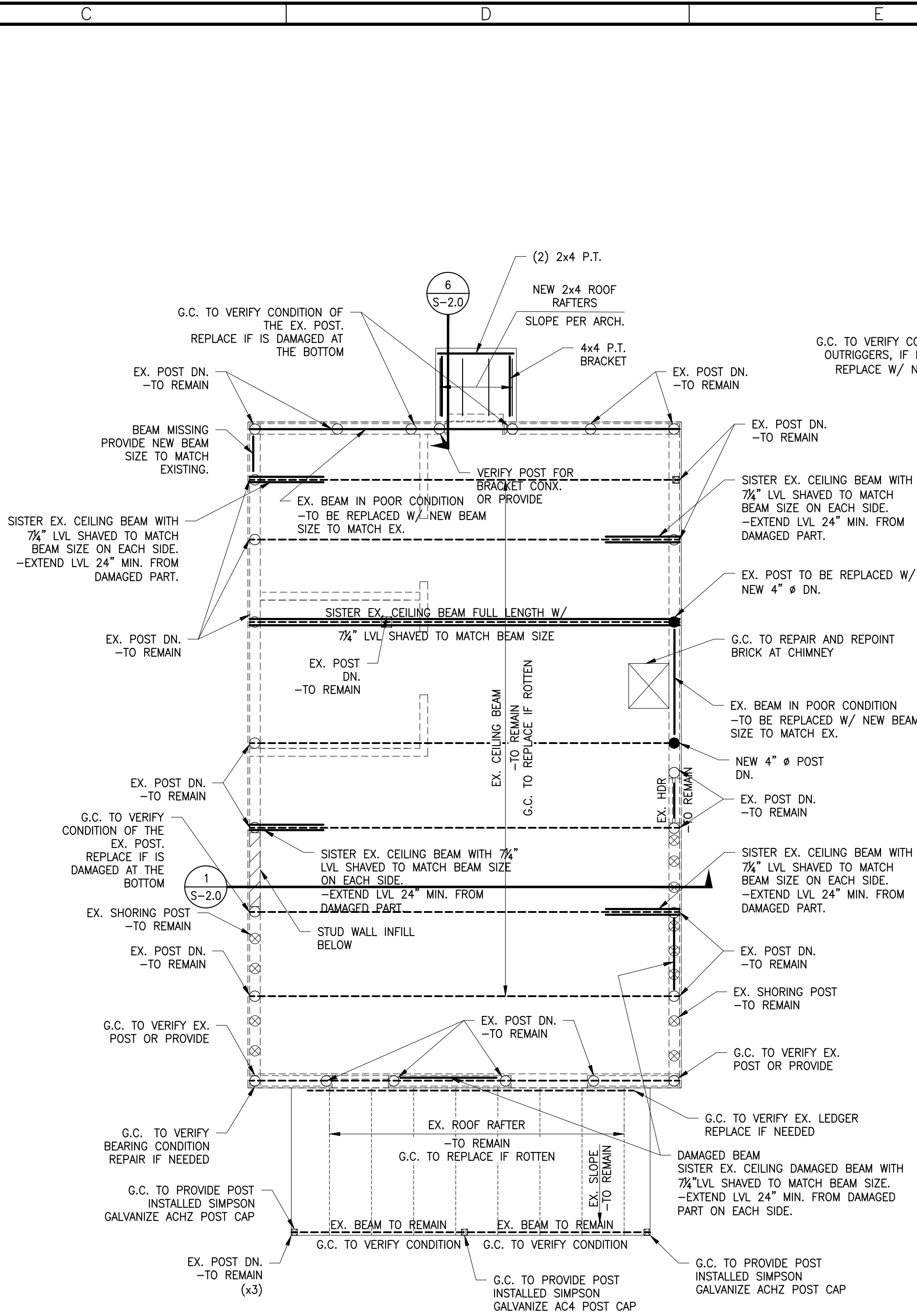


FOUNDATION PLAN

SCALE: 1/4"=1'-0"

NOTES:

1. REFER TO S-0.0 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN PRIOR TO CONSTRUCTION.
4. G.C. TO PROVIDE AND MAINTAIN SHORING TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
5. G.C. TO CONTACT STABILITY ENGINEERING IF EXISTING CONDITION DIFFERENT THAN SHOWN ON PLANS.

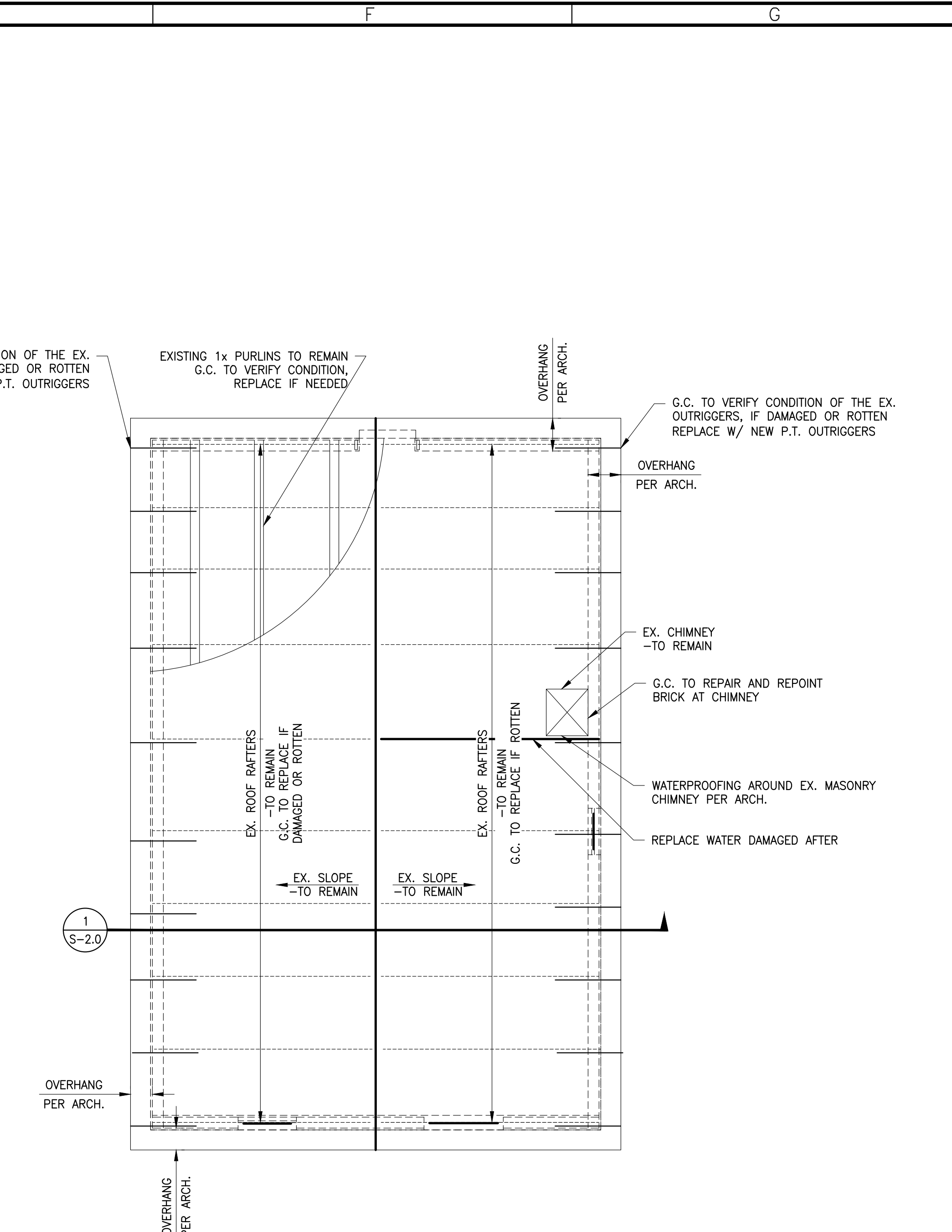


CEILING FRAMING PLAN

SCALE: 1/4"=1'-0"

NOTES:

1. REFER TO S-0.0 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
3. G.C. TO PROVIDE AND MAINTAIN SHORING TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
4. G.C. TO CONTACT STABILITY ENGINEERING IF EXISTING CONDITION DIFFERENT THAN SHOWN ON PLANS.
5. G.C. TO VERIFY CONDITIONS OF ALL EXISTING STRUCTURAL ELEMENTS AND REPLACE THEM IF THEY ARE DAMAGED OR ROTTEN.
6. REMOVE EX. SIDING BOARDS, PROVIDE EXTERIOR SHEERING AND FINISH PER ARCH.
7. G.C. TO VERIFY CONDITION OF THE 1x SILL AT RAFTERS BEARING, REPLACE IF ROTTEN OR DAMAGED.
8. EX. SHORING POSTS TO REMAIN IN PLACE, G.C. TO PROVIDE ADDITIONAL POST UNDER SAGGING BEAM IF NEEDED.
9. ALL EXTERIOR WALLS BRACING PER DETAIL A/S-2.0.



ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"

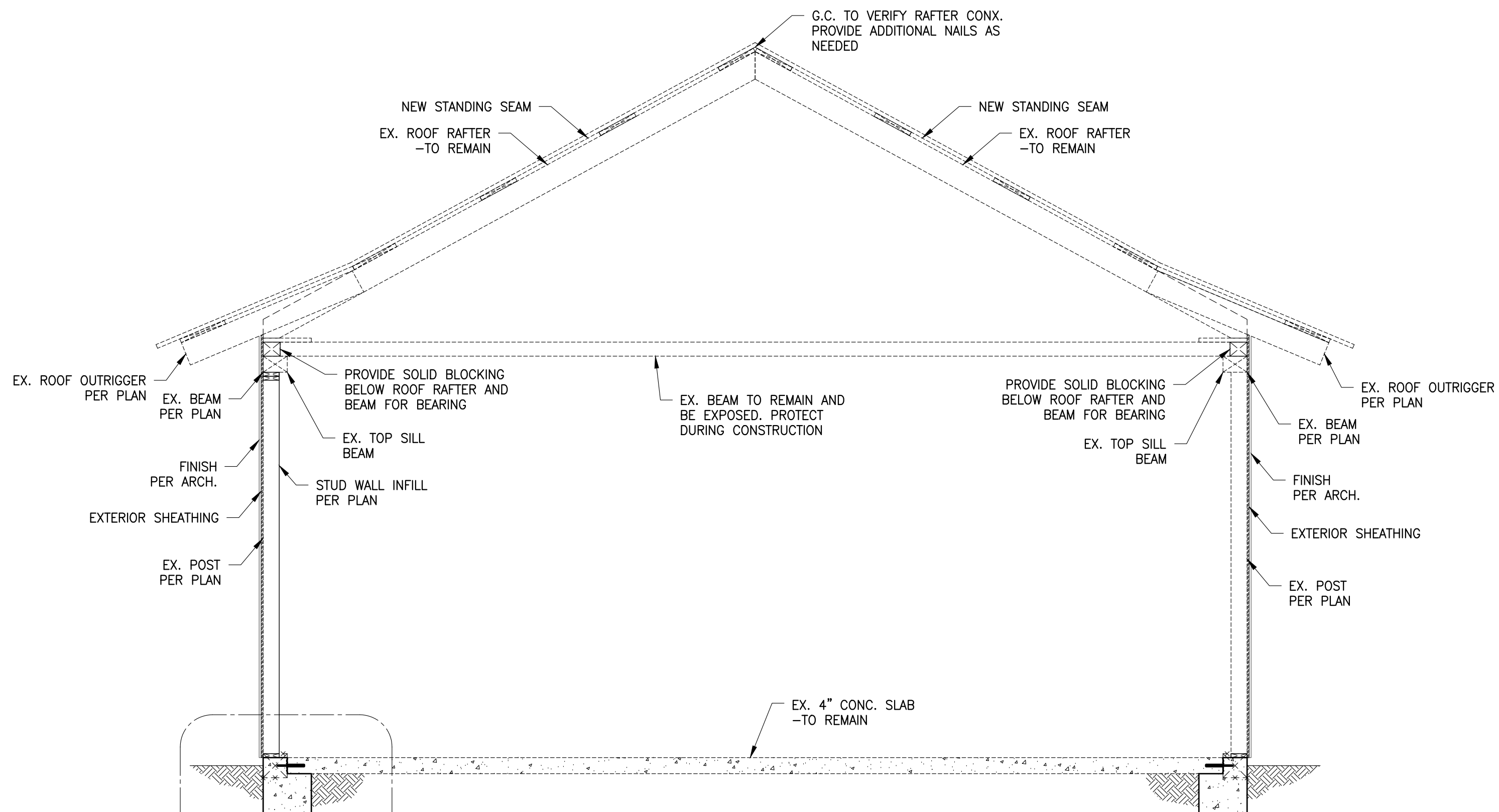
NOTES:

1. REFER TO S-0.0 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
3. G.C. TO PROVIDE AND MAINTAIN SHORING TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
4. G.C. TO CONTACT STABILITY ENGINEERING IF EXISTING CONDITION DIFFERENT THAN SHOWN ON PLANS.
5. G.C. TO VERIFY CONDITIONS OF ALL EXISTING STRUCTURAL ELEMENTS AND REPLACE THEM IF THEY ARE DAMAGED OR ROTTEN.

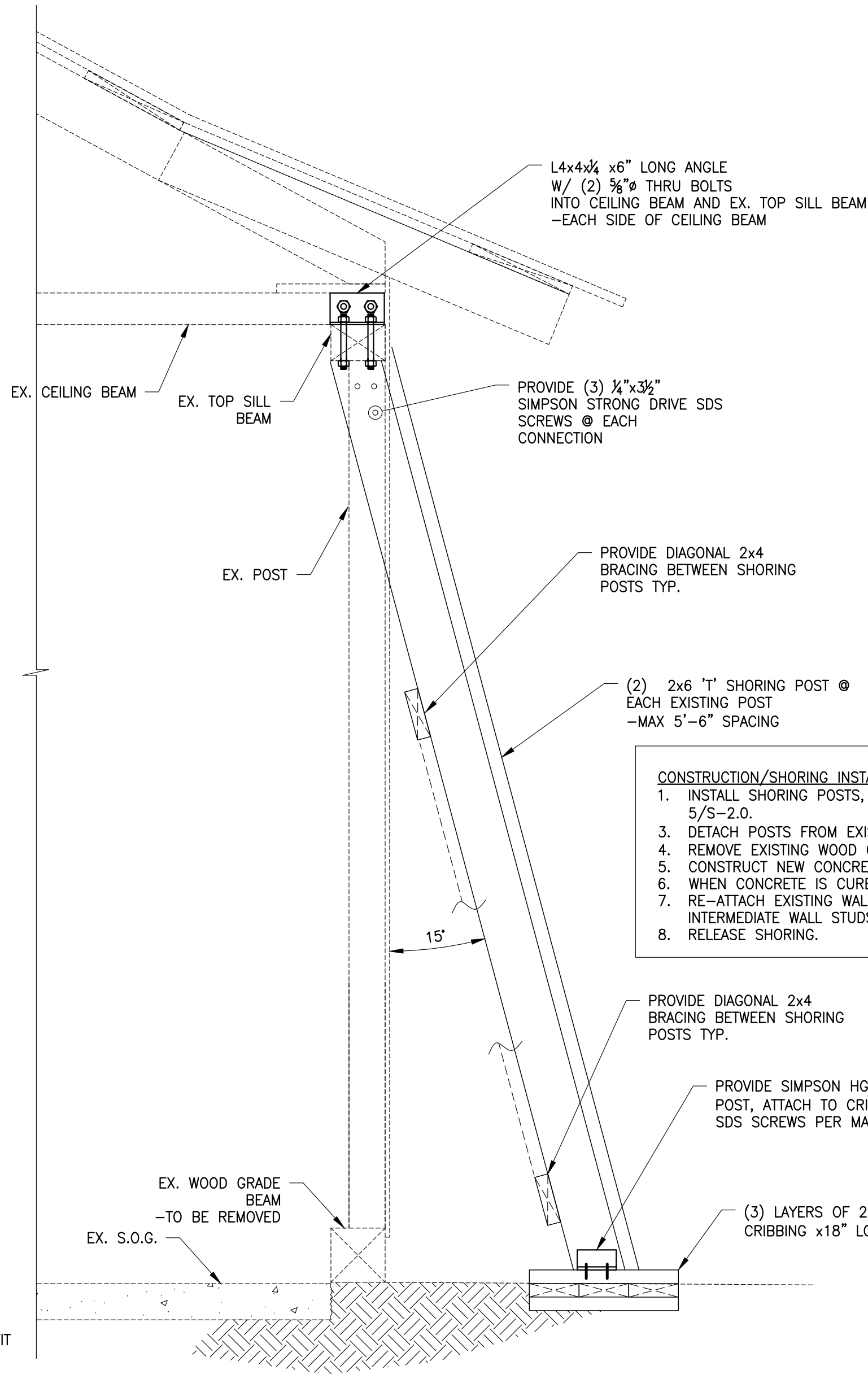


ISSUED FOR CONSTRUCTION

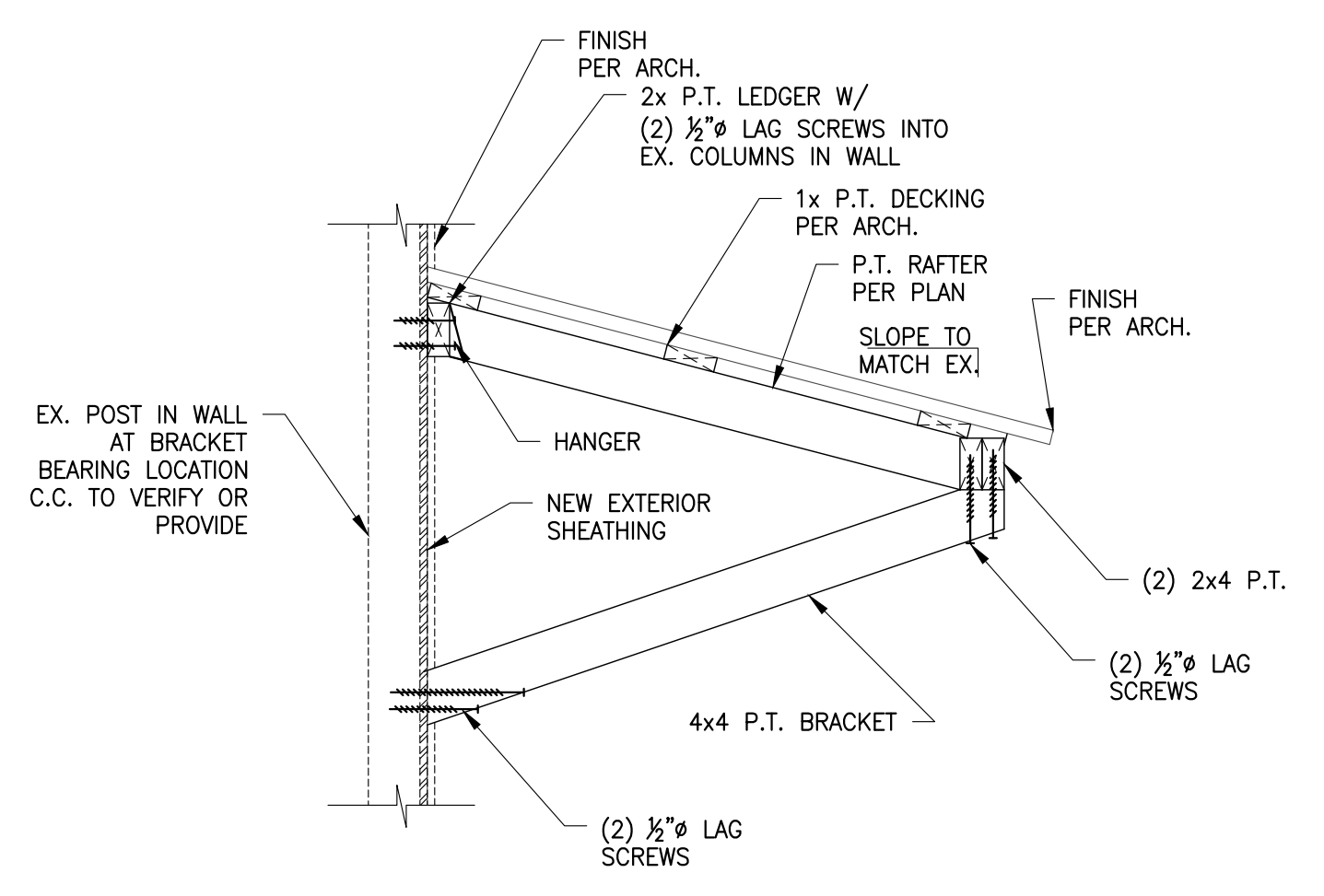
WINTERVILLE, GA - BLACKSMITH SHOP		SCALE: NOTED
FOUNDATION PLAN		DATE: 06/14/2024
FRAMING PLANS		DRWN BY: SBP/ILK
S ^e STABILITY ENGINEERING		CHKD BY: PDC
PROJECT NO: SB#24257		SHEET: 2 OF 3
SHEET NUMBER: S-1.0		REV: 0
1376 Church St, Ste 200, Decatur, GA 30030 PIVFax: 404-377-9316		



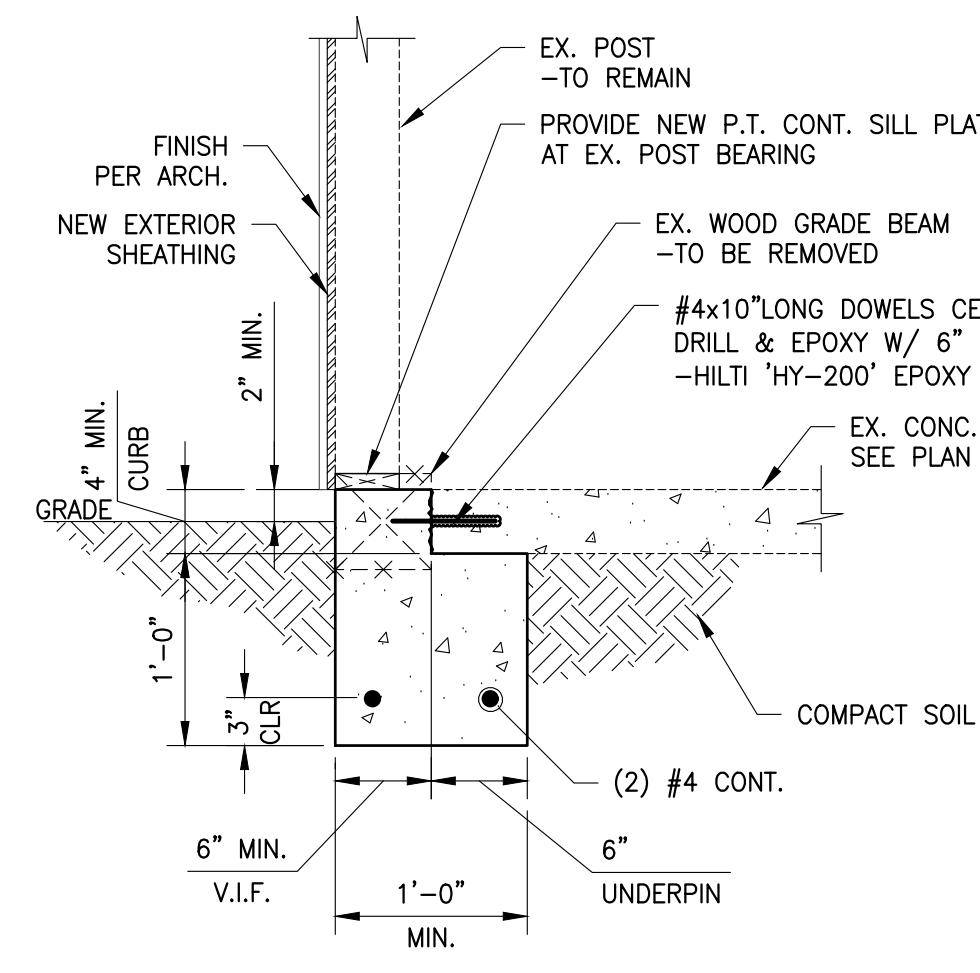
1 BUILDING SECTION
SCALE: 3/4"=1'-0"



5 SHORING DETAIL
SCALE: 1"=1'-0"

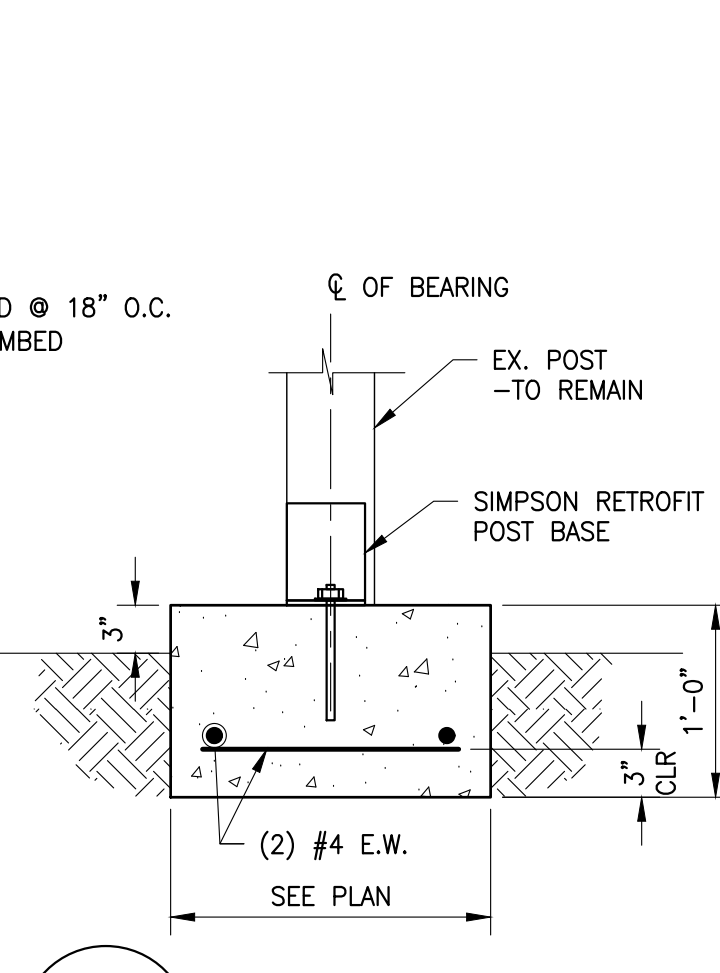


6 CANOPY SECTION
SCALE: 1"=1'-0"



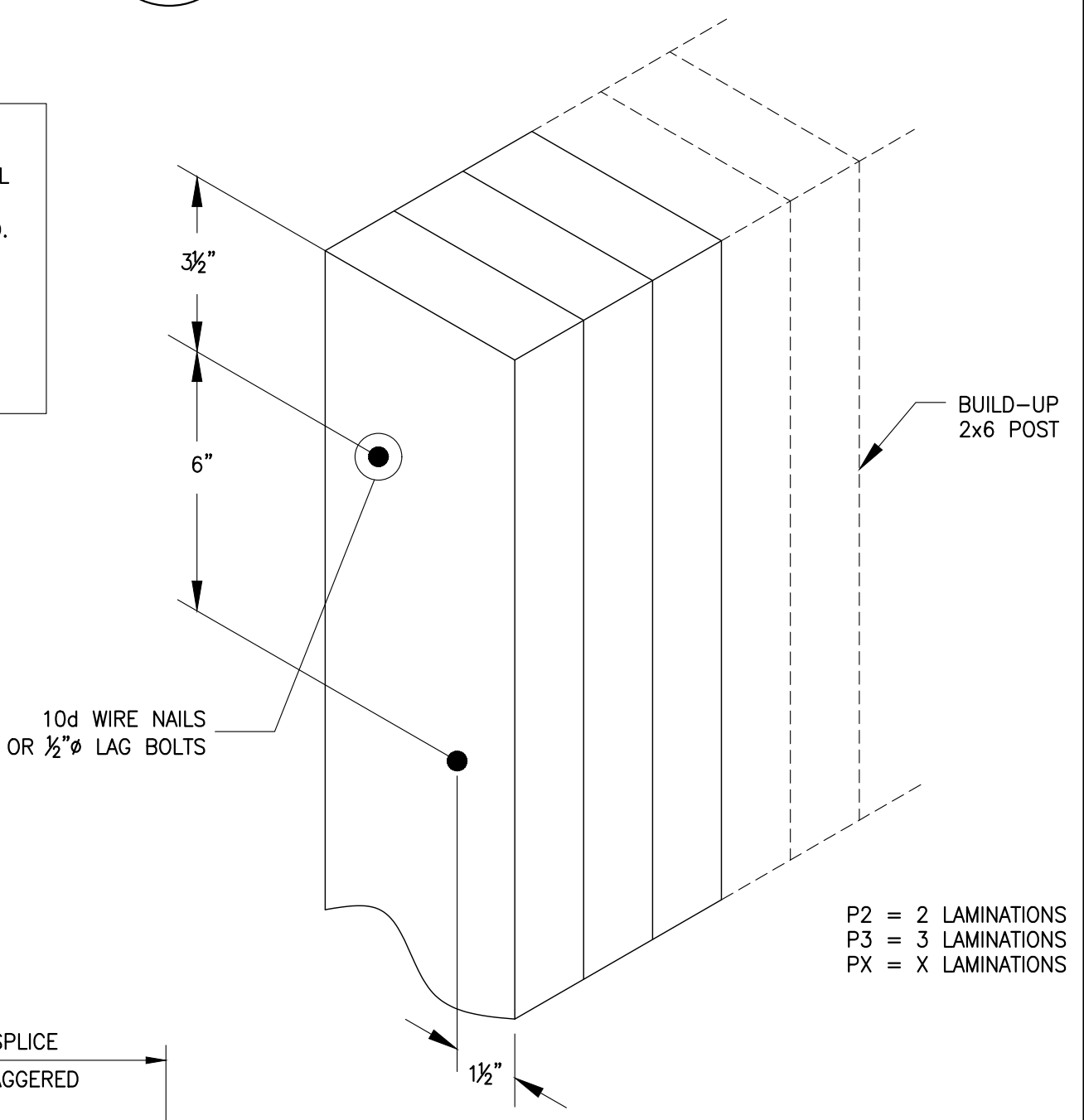
2 FOOTING @ EXISTING GRADE BEAM
SCALE: 1"=1'-0"

3 FOOTING @ EXISTING GRADE BEAM
SCALE: 1"=1'-0"

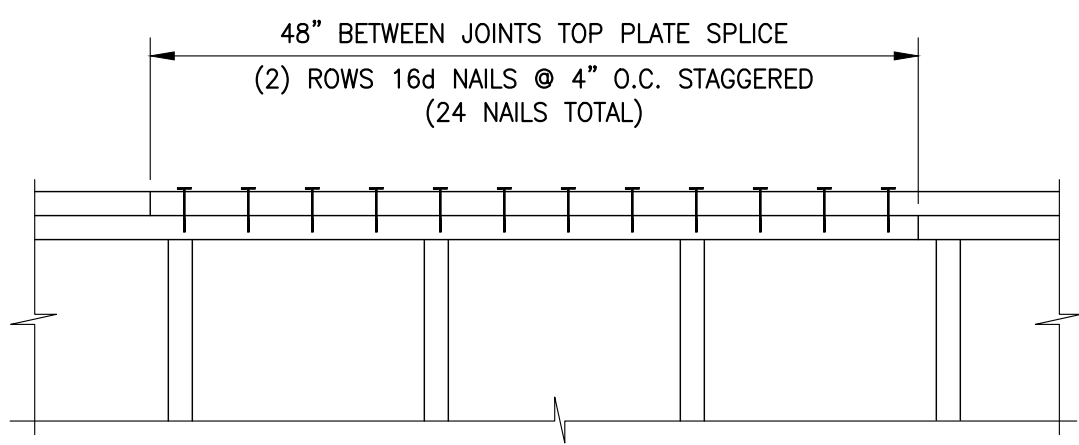


4 POST FOOTING
SCALE: 1"=1'-0"

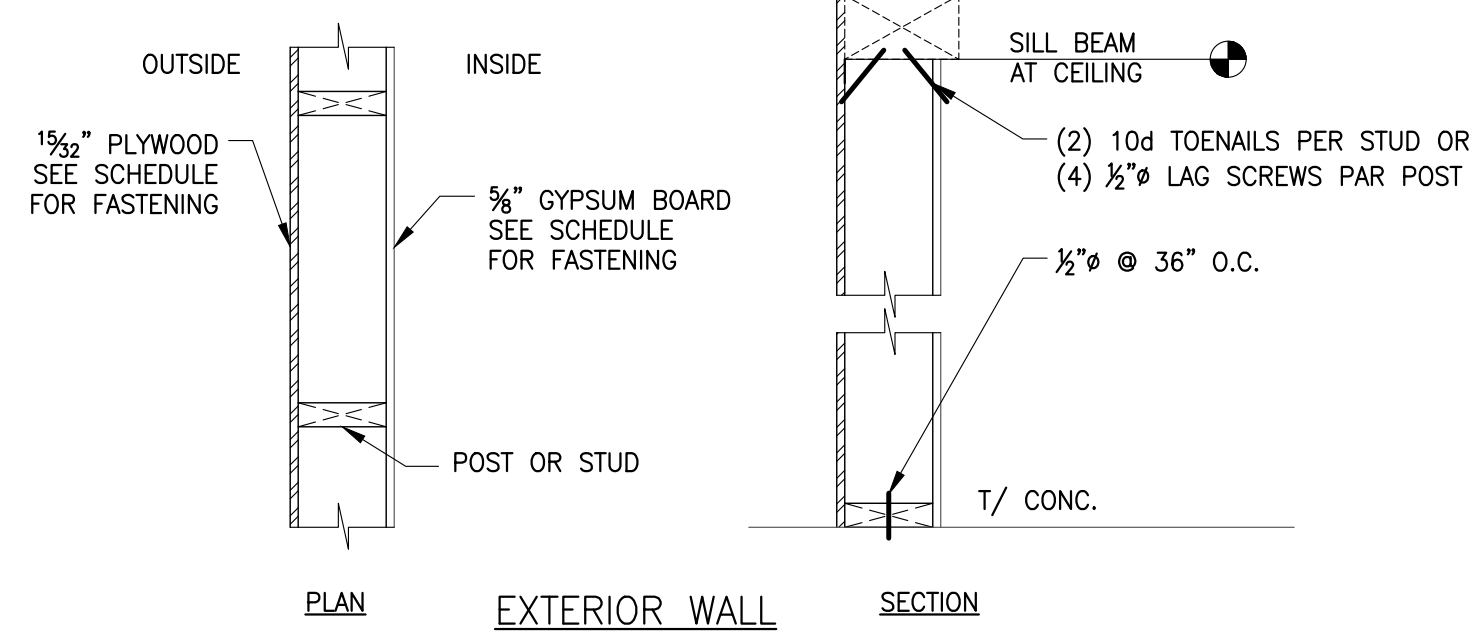
CONSTRUCTION/SHORING INSTALLATION SEQUENCE:
 1. INSTALL SHORING POSTS, CRIBBING, AND BRACING PER DETAIL 5/S-2.0.
 2. DETACH POSTS FROM EXISTING WOOD GRADE BEAM AS REQ'D.
 3. REMOVE EXISTING WOOD GRADE BEAM.
 4. CONSTRUCT NEW CONCRETE GRADE BEAM.
 5. WHEN CONCRETE IS CURED INSTALL NEW P.T. SILL PLATE.
 6. RE-ATTACH EXISTING WALL POSTS AND INSTALL NEW INTERMEDIATE WALL STUDS PER PLAN.
 7. RELEASE SHORING.



F TYPICAL POST DETAIL
SCALE: 3/4"=1'-0"



D TYP. TOP PLATE SPLICE DETAIL
SCALE: 1"=1'-0"

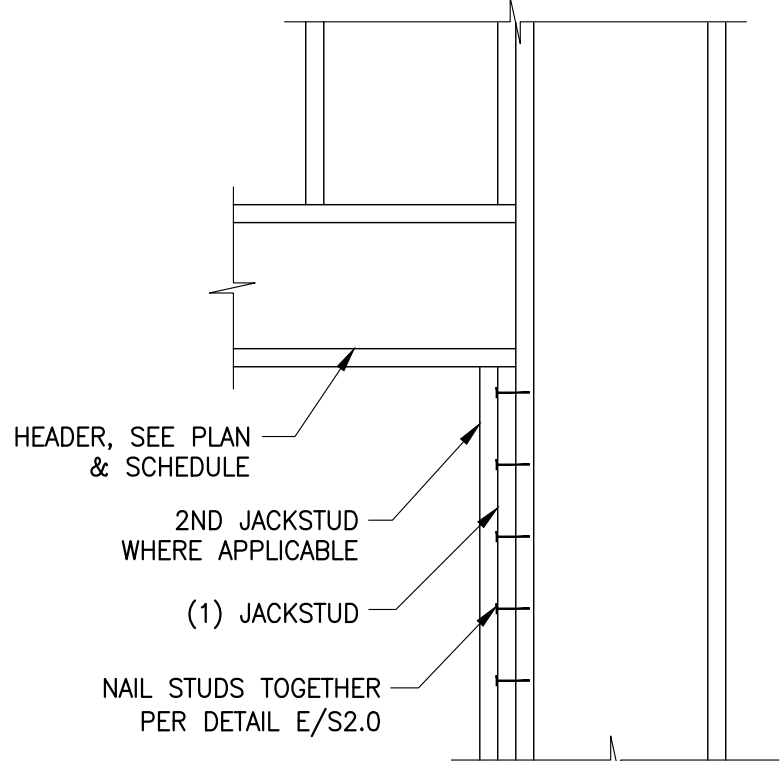


A WALL SHEATHING & ATTACHMENT DETAILS
SCALE: N.T.S.

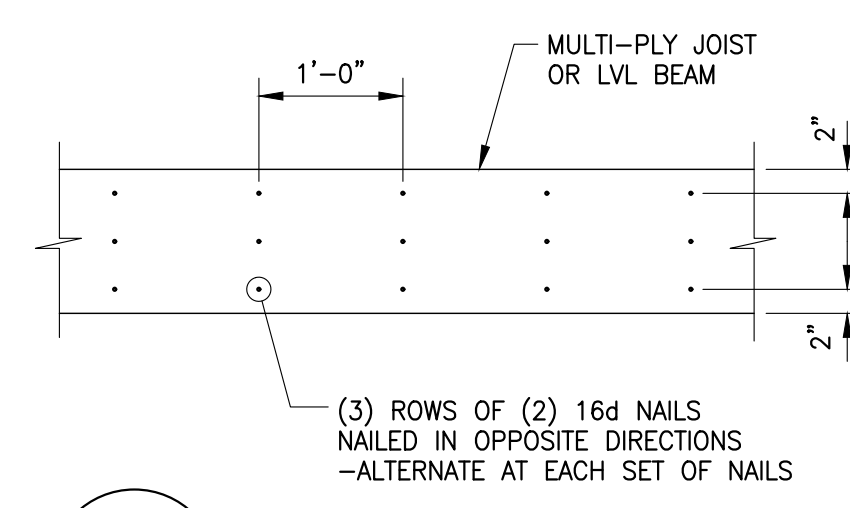
SHEATHING ATTACHMENT SCHEDULE			
	SHEATHING TYPE	FASTENER	FASTENING
EXTERIOR WALL	1 1/2" PLYWOOD ¹	8d NAIL	6" O.C. @ EDGE 12" O.C. @ FIELD BLOCK ALL EDGES

NOTES:
 1. 1 1/2" PLYWOOD SHEATHING TO BE 5-PLY APA RATED 32/16, EXPOSURE 1.
 CONTRACTOR OPTION: 3/8" OSB, APA RATED 24/16 EXPOSURE 1, OSB, IF UTILIZED, IS TO BE PROTECTED FROM WEATHER AT ALL TIMES TO PREVENT SWELLING.
 2. AT NON-LOAD BEARING WALLS PROVIDE : 0.177" P.A.F. @ 16" O.C. AT BASE & 16d NAILS @ 16" O.C. AT ELEVATED CONX.

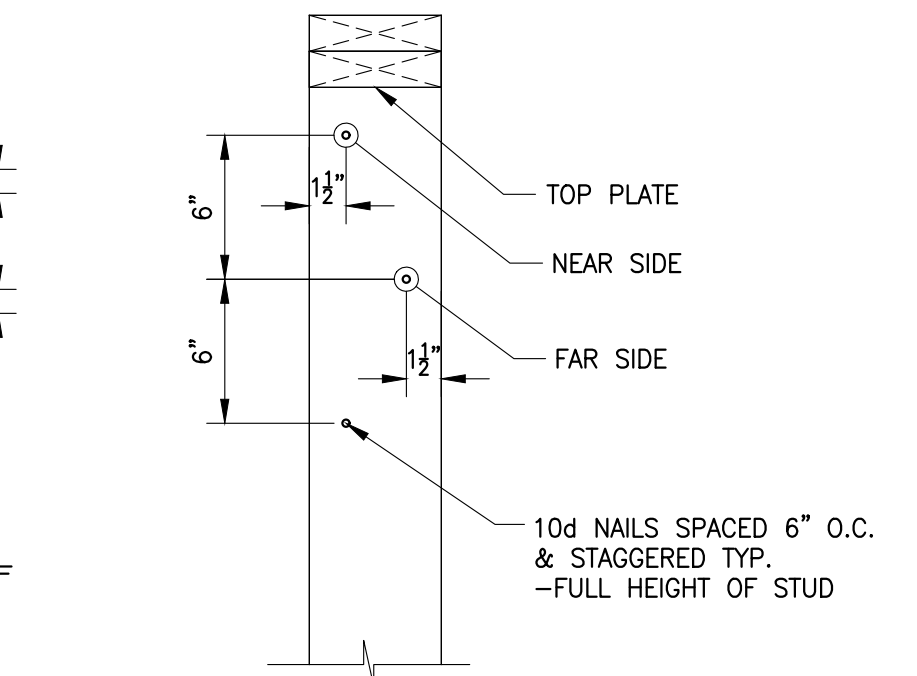
NOTES:
 1. SEE ARCH. FOR AIR GAP AND FIREPROOFING..
 2. 1/2" ANCHORS TO HAVE 7" MIN. EMBEDMENT. CONTRACTOR OPTION: SUBSTITUTE 1/2" SIMPSON TITEN HD W/ MIN. 4" EMBEDMENT.
 3. FOR 1/2" ANCHORS, PROVIDE STEEL PLATE WASHERS AS FOLLOWS:
 2x4 WALL 3"x3"x3/4" MIN. (SIMPSON BPS1/2-3)
 2x6 WALL 3"x4"x3/4" MIN. (SIMPSON BPS1/2-6)
 ORIENT PERPENDICULAR TO WALL



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



C MULTI-PLY NAILING DETAIL
SCALE: 3/4"=1'-0"



E TYP. GANGSTUD NAILING DETAIL
SCALE: 1 1/2"=1'-0"



ISSUED FOR CONSTRUCTION

WINTERVILLE, GA - BLACKSMITH SHOP

STABILITY ENGINEERING

BUILDING SECTION DETAILS

PROJECT NO. SB#24257

SHEET NUMBER: S-2.0

DATE: 06/14/2024

SCALE: NOTED

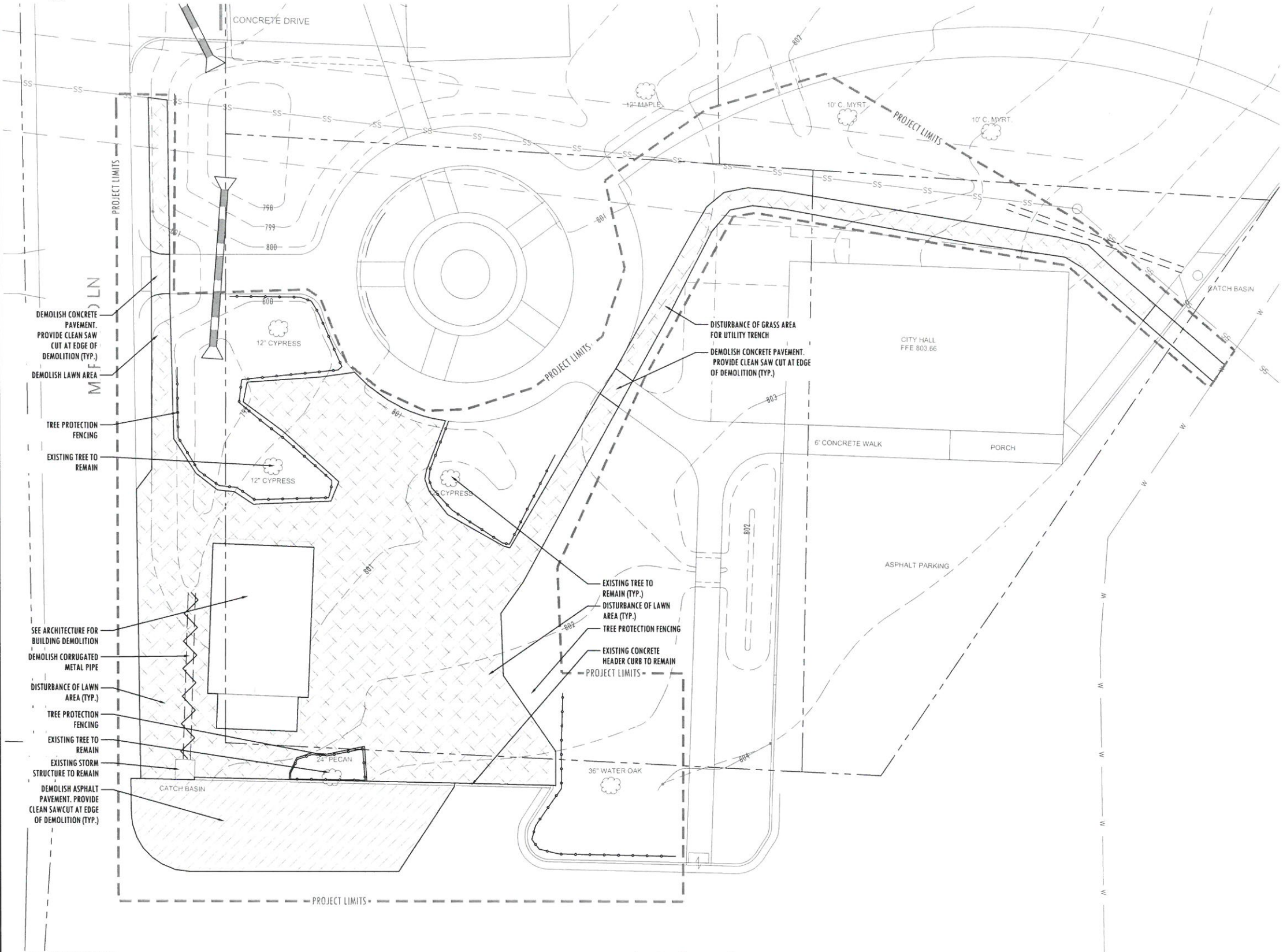
DRWN BY: SBP/ILK

CHKD BY: PDC

SHT 3 OF 3

REV 0

1376 Church St, Ste 200, Decatur, GA 30030 PIVFax: 404-377-9316

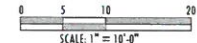


EX. CONDITIONS & DEMOLITION LEGEND

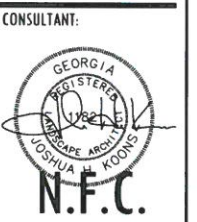
- EXISTING HARDSCAPE TO BE REMOVED
- EXISTING VEGETATION TO BE REMOVED
- PROJECT LIMITS
- TREE PROTECTION FENCING

- SHEET NOTES:**
1. ALL LIGHTS, SIGNS, TRASH CANS, BENCHES, ETC. MARKED FOR REMOVAL ARE TO BE SALVAGED FOR RE-USE. CONTRACTOR RESPONSIBLE FOR SAFE HANDLING AND STORAGE OF SALVAGED MATERIALS UNTIL RECEIPT BY OWNER OR REINSTALLATION. DISPOSAL OF REJECTED SALVAGED ITEMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ITEMS UNMARKED BUT SALVAGEABLE SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT TO VERIFY REMOVAL.
 2. PRIOR TO LAND DISTURBANCE ACTIVITY, CONTRACTOR TO CLEARLY MARK ALL VEGETATION TO BE REMOVED FOR INSPECTION BY OWNER PRIOR TO REMOVAL.
 3. ALL TREES TO REMAIN WITHIN LIMITS OF CONSTRUCTION ARE TO RECEIVE TREE PROTECTION FENCING PER THE TREE PROTECTION FENCING DETAIL. DURING CONSTRUCTION, THE TREE PROTECTION FENCING SHOULD BE RELOCATED AND/OR RE-SIZED TO ACCOMMODATE PROPOSED IMPROVEMENTS IN THE VICINITY OF THE TREE.
 4. SEDIMENT AND SOIL EROSION CONTROL MEASURES TO BE IN PLACE PRIOR TO ANY GROUND DISTURBING ACTIVITY. SEE EROSION CONTROL PLAN, NOTES & DETAILS FOR LOCATION OF CONTROL MEASURES.
 5. THE EXISTENCE AND LOCATION OF STRUCTURES AND UNDERGROUND UTILITIES, WHETHER INDICATED ON THE PLANS OR NOT, ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO ANY EXISTING STRUCTURES AND UTILITIES.
 6. EXISTING UTILITIES TO BE REMOVED AND/OR RELOCATED TO BE COORDINATED WITH CORRESPONDING UTILITY OWNER. 72 HOUR ADVANCE NOTICE TO BE GIVEN TO PUBLIC UTILITIES PROTECTION SERVICE, UNIVERSITY OF GEORGIA FACILITIES MANAGEMENT DIVISION UTILITIES LOCATING SERVICE, UNIVERSITY OF GEORGIA EITS AND CORRESPONDING UTILITY OWNER.

DEMOLITION PLAN
SCALE: 1" = 10'



KOONS ENVIRONMENTAL DESIGN inc.
 675 Pyleski Street
 Suite 2000
 Athens, GA 30601
 ph: 706-553-3838



TITLE:

**CITY OF WINTERVILLE
 BLACKSMITH SHOP
 WINTERVILLE, GA**

PROJECT NO:
 DRAWN BY: DJ
 CHECKED BY: JK
 SCALE: AS NOTED

ISSUANCE:
 DATE:

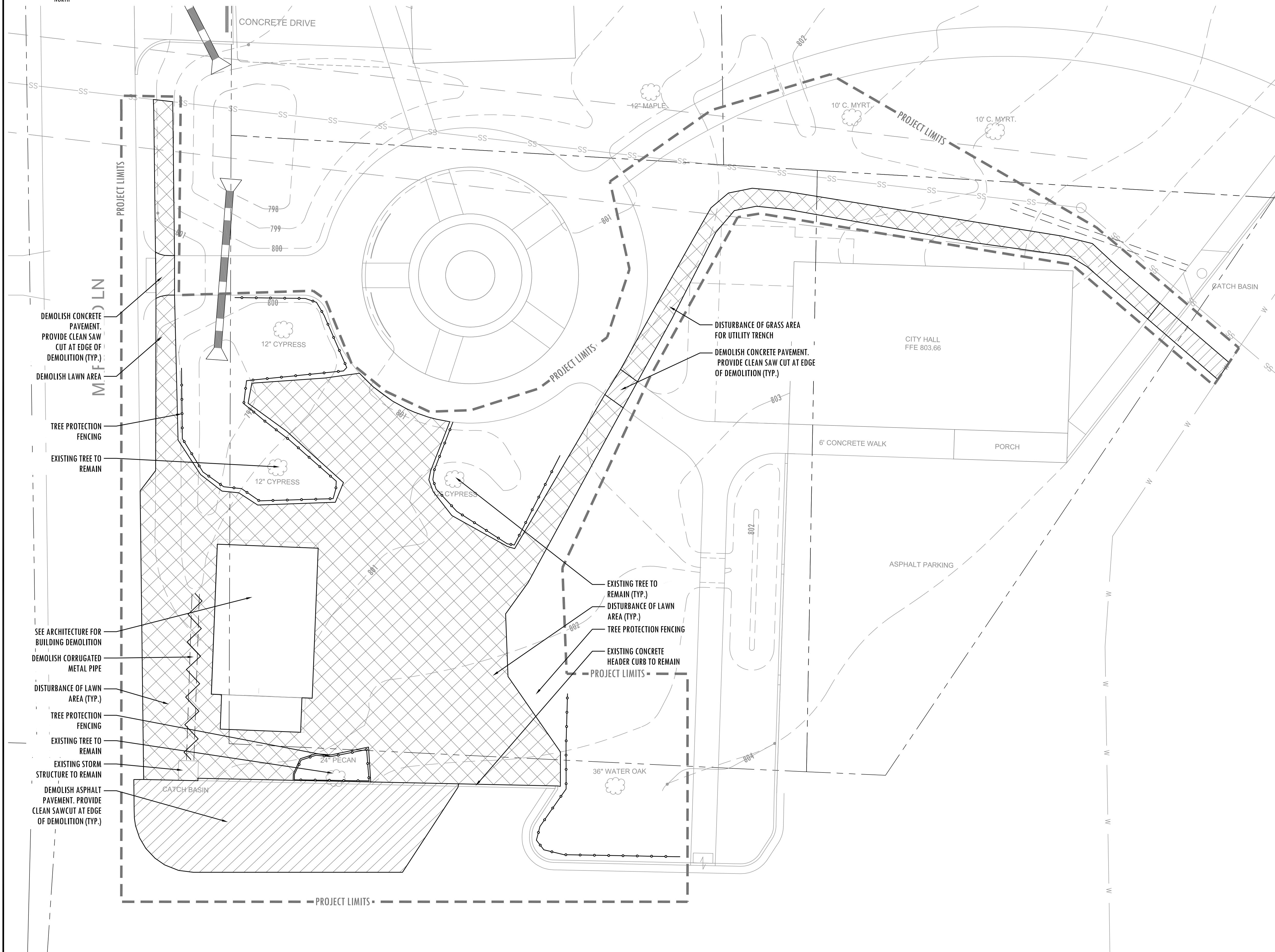
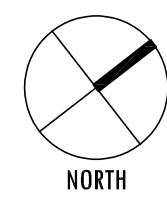
SHEET TITLE:

DEMOLITION PLAN

SHEET NUMBER:

C1.0

BID PACKAGE - NOT FOR CONSTRUCTION



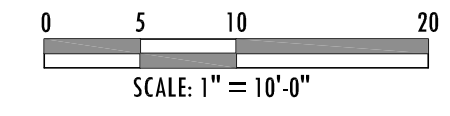
EX. CONDITIONS & DEMOLITION LEGEND

- EXISTING HARDSCAPE TO BE REMOVED
- EXISTING VEGETATION TO BE REMOVED
- PROJECT LIMITS
- TREE PROTECTION FENCING

SHEET NOTES:

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1
DEMOLITION PLAN
SCALE: 1" = 10'



KOONS ENVIRONMENTAL DESIGN inc.
675 Poleski Street
Suite 2000
Athens, GA 30601
ph: 706-353-3838

CONSULTANT:

N.F.C.

TITLE:

**CITY OF WINTERVILLE
BLACKSMITH SHOP
WINTERVILLE, GA**

PROJECT NO:
DRAWN BY: DJ
CHECKED BY: JK
SCALE: AS NOTED

ISSUANCE:
DATE:

SHEET TITLE:

DEMOLITION PLAN

SHEET NUMBER:

C1.0

BID PACKAGE - NOT FOR CONSTRUCTION

CONSULTANT:



TITLE:

**CITY OF WINTERVILLE
 BLACKSMITH SHOP
 WINTERVILLE, GA**

PROJECT NO:
 DRAWN BY: DJ
 CHECKED BY: JK
 SCALE: AS NOTED

ISSUANCE:
 DATE:

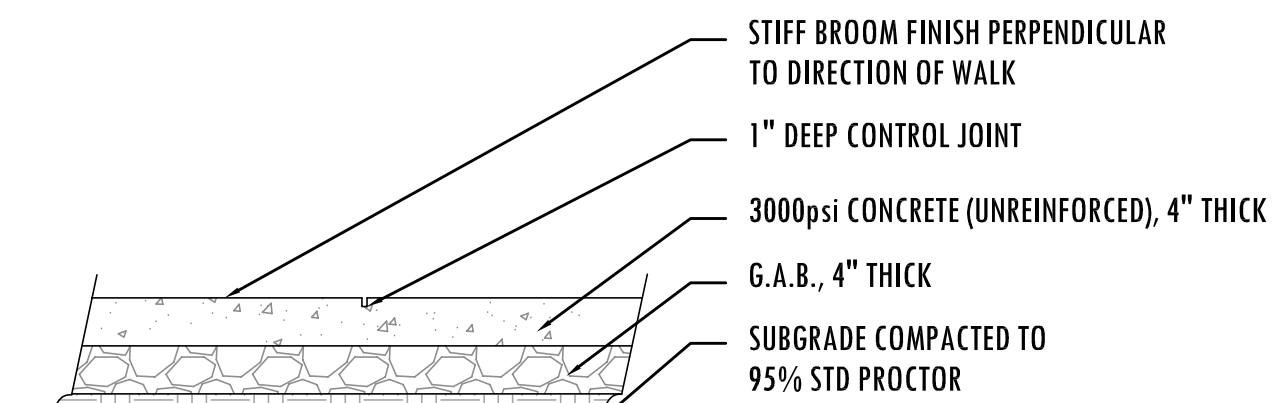
SHEET TITLE:

SITE DETAILS

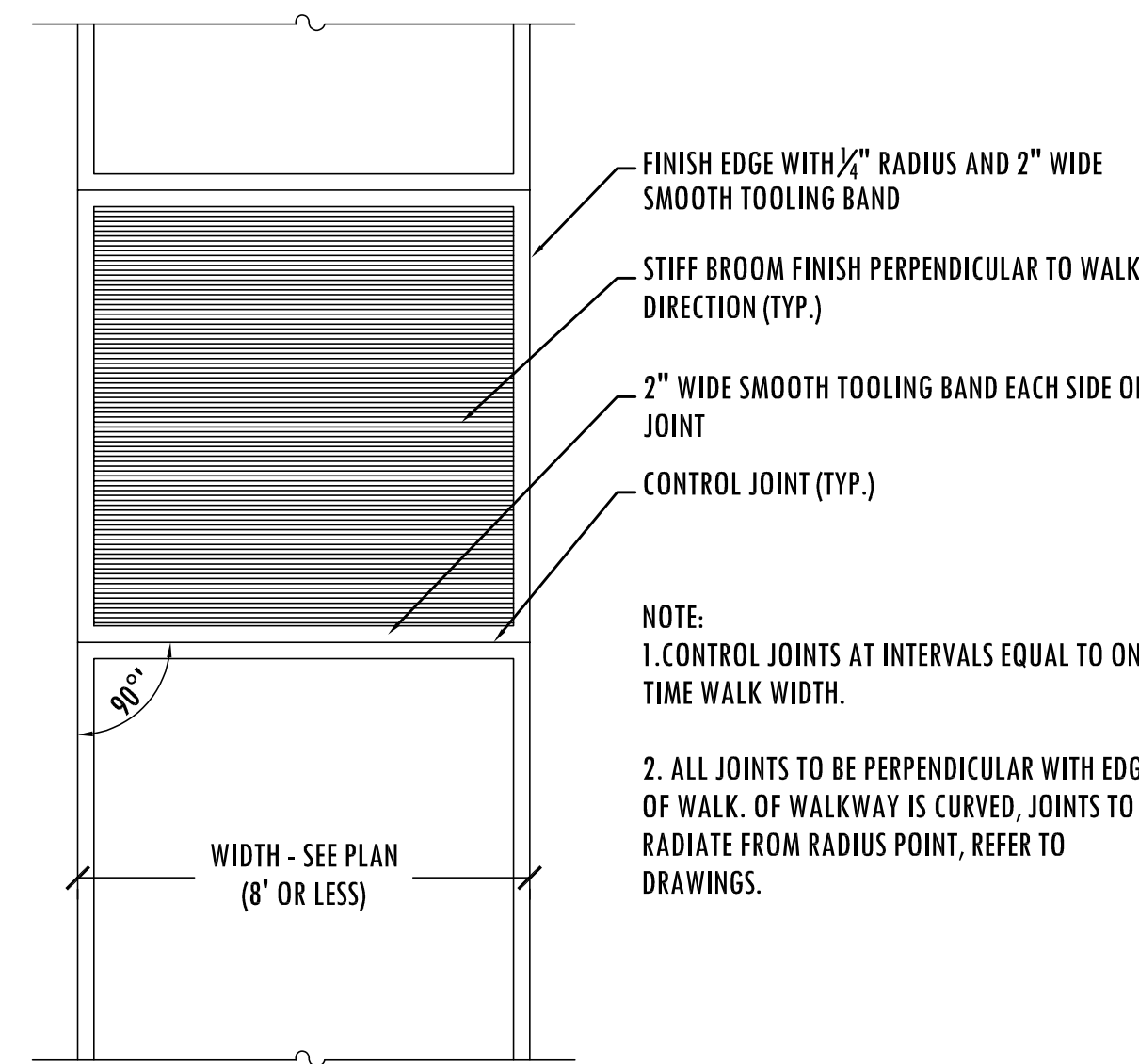
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C2.1

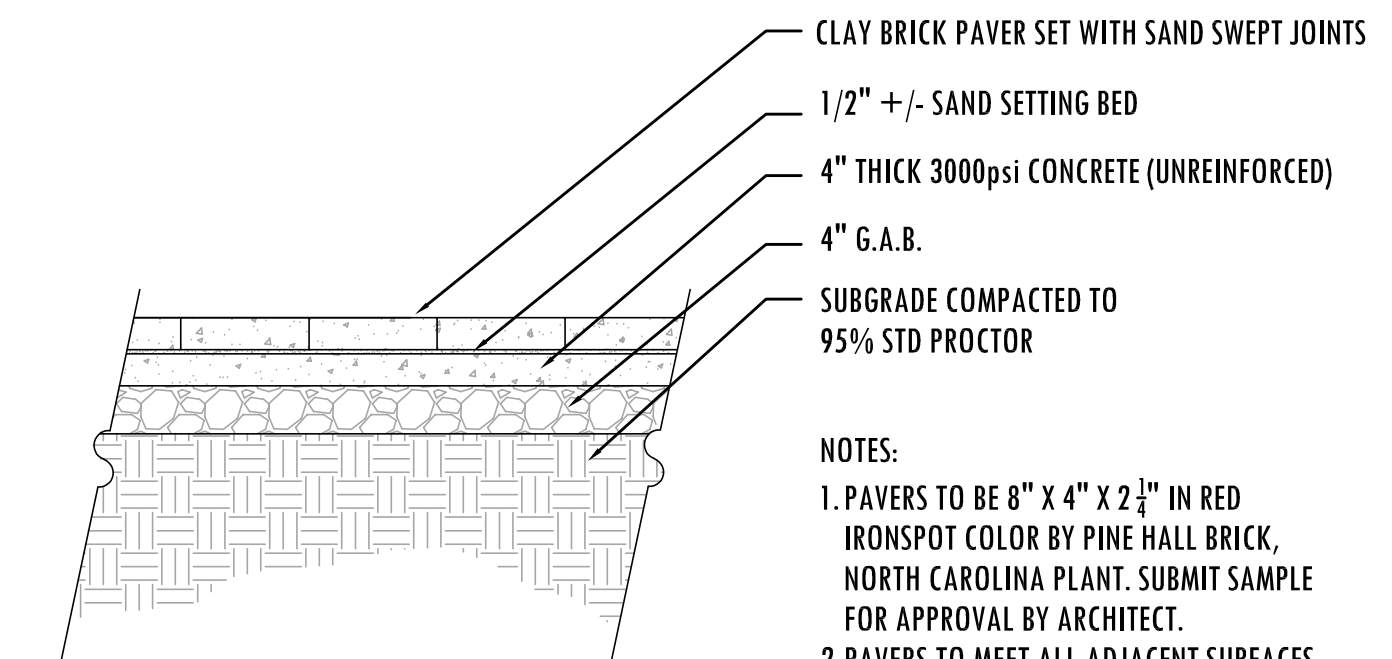
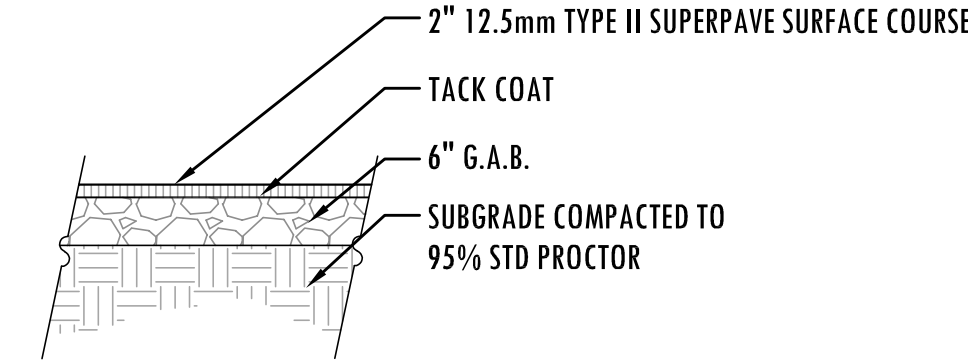
BID PACKAGE - NOT FOR CONSTRUCTION



- STIFF BROOM FINISH PERPENDICULAR TO DIRECTION OF WALK
- 1" DEEP CONTROL JOINT
- 3000psi CONCRETE (UNREINFORCED), 4" THICK
- G.A.B., 4" THICK
- SUBGRADE COMPACTED TO 95% STD PROCTOR
- NOTES:
- CONTROL JOINTS TO BE STRUCK AS SHOWN ON CONCRETE SIDEWALK SURFACE FINISH DETAIL.
 - PROVIDE FULL DEPTH EXPANSION JOINT AT INTERVALS FIVE TIMES WALK WIDTH FOR WALKS LESS THAN 8 FEET WIDE AND THREE TIMES WALK WIDTH FOR WALKS 8 FEET AND GREATER. PROVIDE "ZIPSTRIP" OR EQUIVALENT REMOVABLE TOP. REMOVE PLASTIC CAP AND CAULK JOINT WITH SINGLE COMPONENT, SELF-LEVELING SILICONE JOINT SEALANT FOR CONCRETE MEETING ASTM D5893, TYPE SL. SUBMIT MANUFACTURER'S SPEC SHEET FOR REVIEW AND APPROVAL.
 - ALL JOINTS TO BE PERPENDICULAR WITH EDGES OF WALK. OF WALKWAY IS CURVED, JOINTS TO RADIATE FROM RADIUS POINT.
 - OVER CAULKED OR MESSY JOINTS WILL REQUIRE REMOVAL AND REPAIR.



- FINISH EDGE WITH 1/2" RADIUS AND 2" WIDE SMOOTH TOOLING BAND
- STIFF BROOM FINISH PERPENDICULAR TO WALK DIRECTION (TYP.)
- 2" WIDE SMOOTH TOOLING BAND EACH SIDE OF JOINT
- CONTROL JOINT (TYP.)
- NOTE:
- CONTROL JOINTS AT INTERVALS EQUAL TO ONE TIME WALK WIDTH.
 - ALL JOINTS TO BE PERPENDICULAR WITH EDGES OF WALK. OF WALKWAY IS CURVED, JOINTS TO RADIATE FROM RADIUS POINT, REFER TO DRAWINGS.



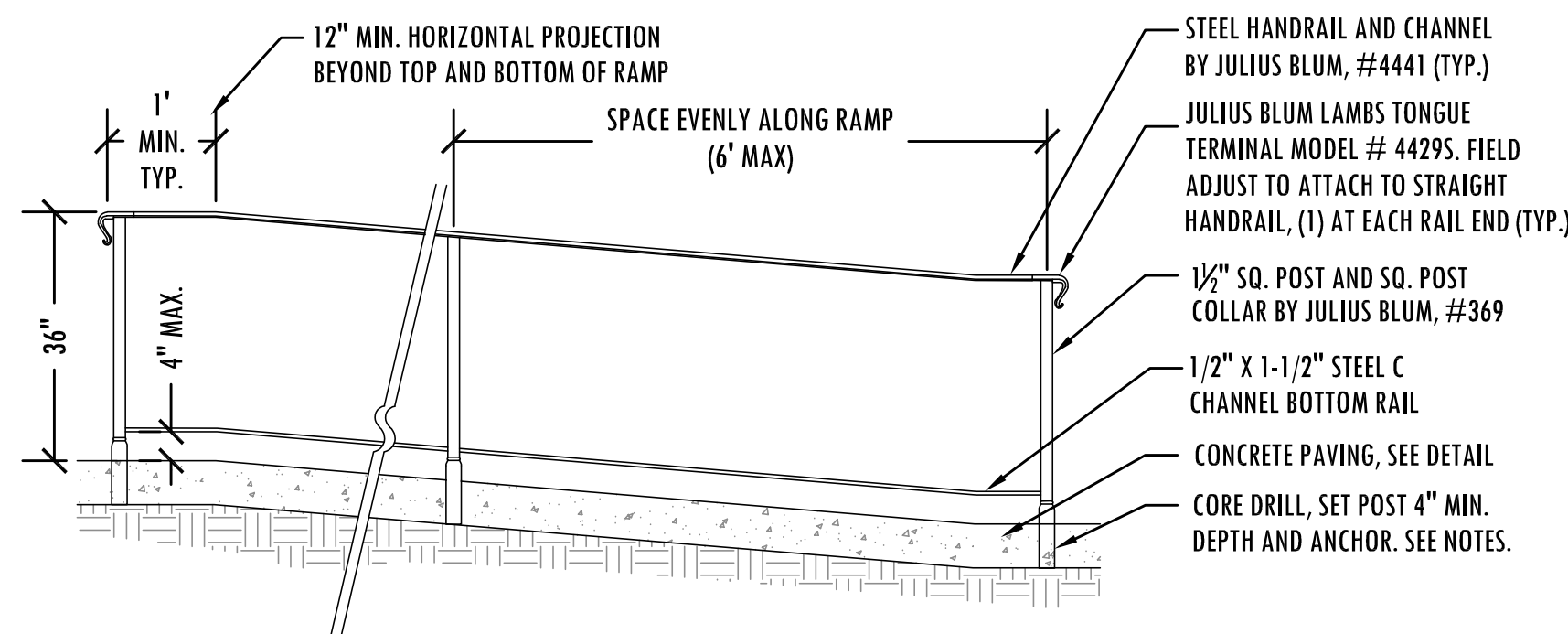
- CLAY BRICK PAVER SET WITH SAND SWEEP JOINTS
- 1/2" +/- SAND SETTING BED
- 4" THICK 3000psi CONCRETE (UNREINFORCED)
- 4" G.A.B.
- SUBGRADE COMPACTED TO 95% STD PROCTOR
- NOTES:
- PAVERS TO BE 8" X 4" X 2 1/4" IN RED IRONSPOT COLOR BY PINE HALL BRICK, NORTH CAROLINA PLANT. SUBMIT SAMPLE FOR APPROVAL BY ARCHITECT.
 - PAVERS TO MEET ALL ADJACENT SURFACES FLUSH.

1 CONCRETE PAVEMENT PROFILE
 C2.1 NTS

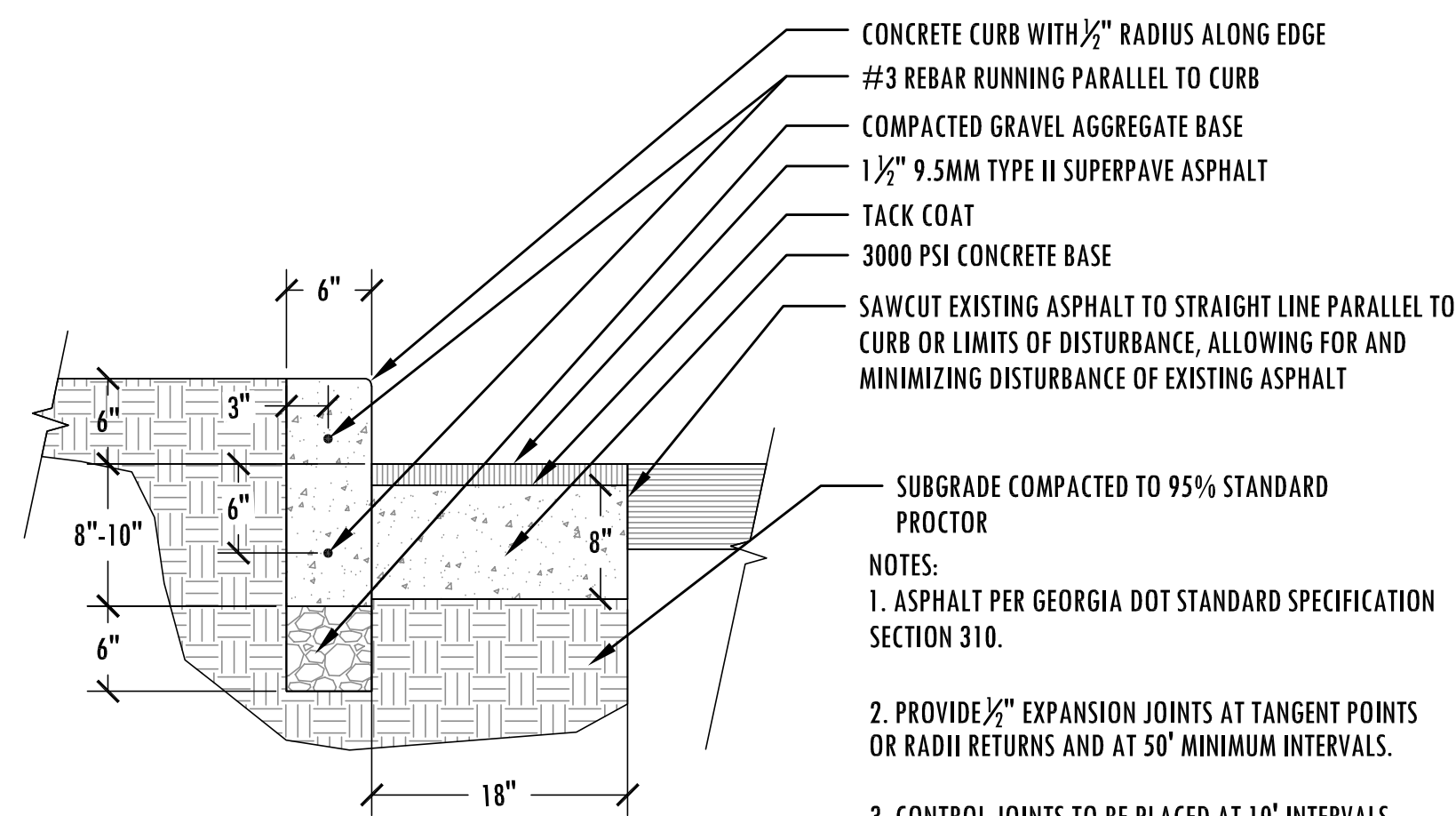
2 CONCRETE PAVEMENT FINISH
 C2.1 NTS

3 ASPHALT PAVEMENT
 C2.1 NTS

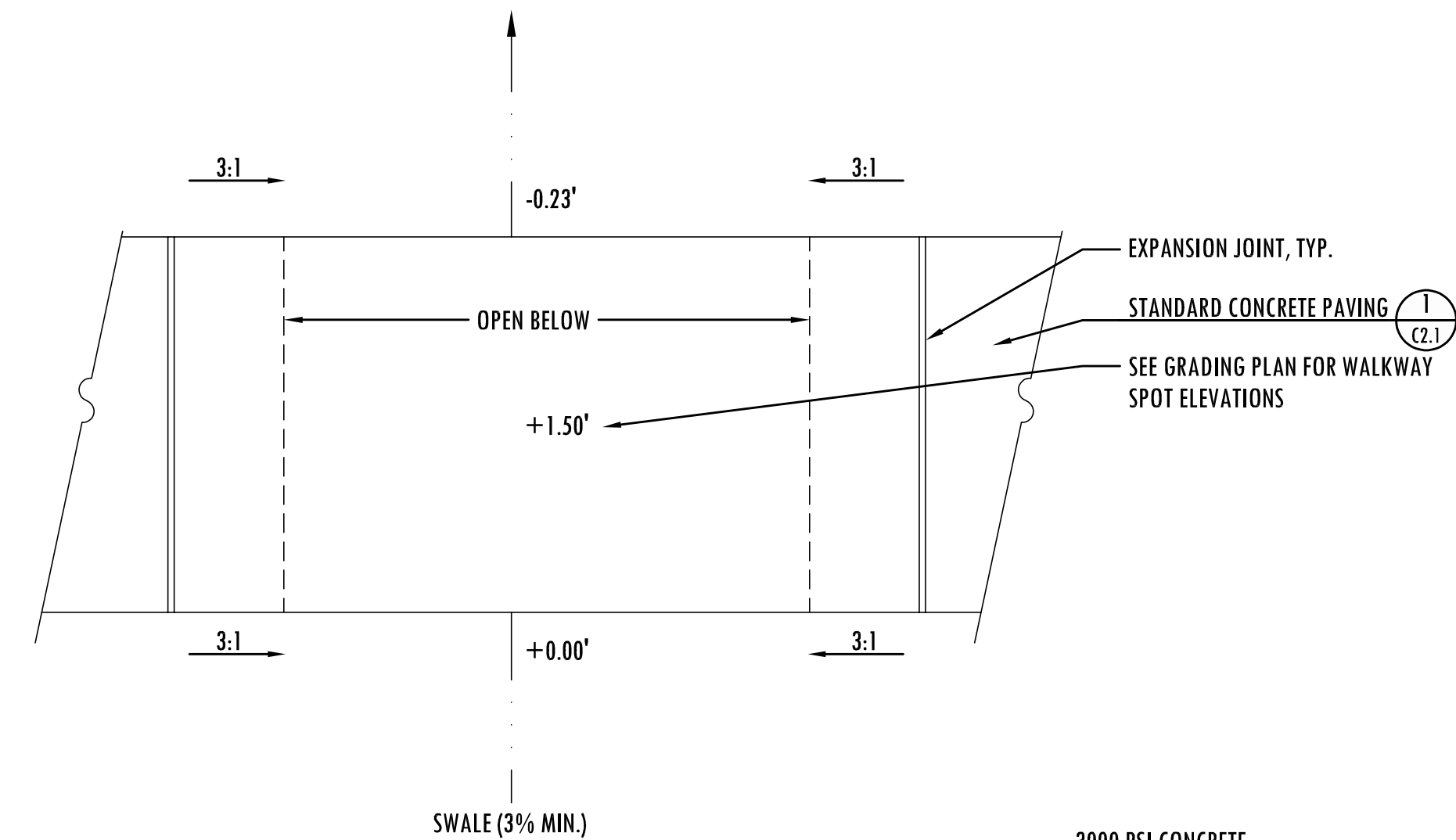
4 BRICK PAVERS
 C2.1 NTS



- 12" MIN. HORIZONTAL PROJECTION BEYOND TOP AND BOTTOM OF RAMP
- SPACE EVENLY ALONG RAMP (6' MAX)
- STEEL HANDRAIL AND CHANNEL BY JULIUS BLUM, #4441 (TYP.)
- JULIUS BLUM LAMBS TONGUE TERMINAL MODEL # 4429S. FIELD ADJUST TO ATTACH TO STRAIGHT HANDRAIL, (1) AT EACH RAIL END (TYP.)
- 1/2" SQ. POST AND SQ. POST COLLAR BY JULIUS BLUM, #369
- 1/2" X 1-1/2" STEEL C CHANNEL BOTTOM RAIL
- CONCRETE PAVING, SEE DETAIL
- CORE DRILL, SET POST 4" MIN. DEPTH AND ANCHOR. SEE NOTES.
- NOTES:
- RAMP TO HAVE MINIMUM 3' CLEAR WIDTH ON INSIDE OF HANDRAILS.
 - FIELD VERIFY SITE CONDITIONS PRIOR TO FABRICATION. ALL POST LOCATIONS TO BE LAID OUT IN THE FIELD FOR APPROVAL PRIOR TO FABRICATION.
 - PROVIDE CONTINUOUS FILLET WELD FOR ALL JOINTS AND CONNECTIONS FOR RAILS, POSTS, AND TERMINALS. GRIND WELDS SMOOTH PRIOR TO PRIMING AND PAINTING.
 - STEEL TO BE CLEANED AND PREPARED FOR PAINTING AFTER INSTALLATION. STEEL TO RECEIVE (2) COATS BLACK PRO INDUSTRIAL DTM ACRYLIC PAINT OR APPROVED EQUAL. SUBMIT MANUFACTURER'S SPEC'S ON PAINT FOR APPROVAL PRIOR TO ORDERING. PROTECT ALL SURFACES NOT RECEIVING PRIMER OR PAINT.
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ARCHITECT PRIOR TO ORDERING MATERIALS.
 - SET HANDRAIL POST WITH SUPER POOR-ROCK EXTERIOR ANCHORING CEMENT NON SHRINK GROUT, OR APPROVED EQUAL. CORE DIA. TO BE MIN. 1/2" HIGHER THAN POST D.O.D. HOLD GROUT LEVEL WITH FINISH SURFACE. GRADE TO SHED WATER FROM POST. GROUT COLOR TO MATCH SURFACE MATERIAL.
 - LOCATE END POSTS TOP AND BOTTOM TO ALLOW LAMB'S TONGUE TO RETURN TO POST.
 - CAULK TO BE BASF NP2 NON SELF-LEVELING IN ALUMINUM GRAY OR APPROVED EQUAL. PROVIDE SAMPLE FOR APPROVAL.



- CONCRETE CURB WITH 1/2" RADIUS ALONG EDGE
- #3 REBAR RUNNING PARALLEL TO CURB
- COMPACTED GRAVEL AGGREGATE BASE
- 1 1/2" 9.5MM TYPE II SUPERPAVE ASPHALT
- TACK COAT
- 3000 PSI CONCRETE BASE
- SAWCUT EXISTING ASPHALT TO STRAIGHT LINE PARALLEL TO CURB OR LIMITS OF DISTURBANCE, ALLOWING FOR AND MINIMIZING DISTURBANCE OF EXISTING ASPHALT
- SUBGRADE COMPACTED TO 95% STANDARD PROCTOR
- NOTES:
- ASPHALT PER GEORGIA DOT STANDARD SPECIFICATION SECTION 310.
 - PROVIDE 1/2" EXPANSION JOINTS AT TANGENT POINTS OR RADI RETURNS AND AT 50' MINIMUM INTERVALS.
 - CONTROL JOINTS TO BE PLACED AT 10' INTERVALS.

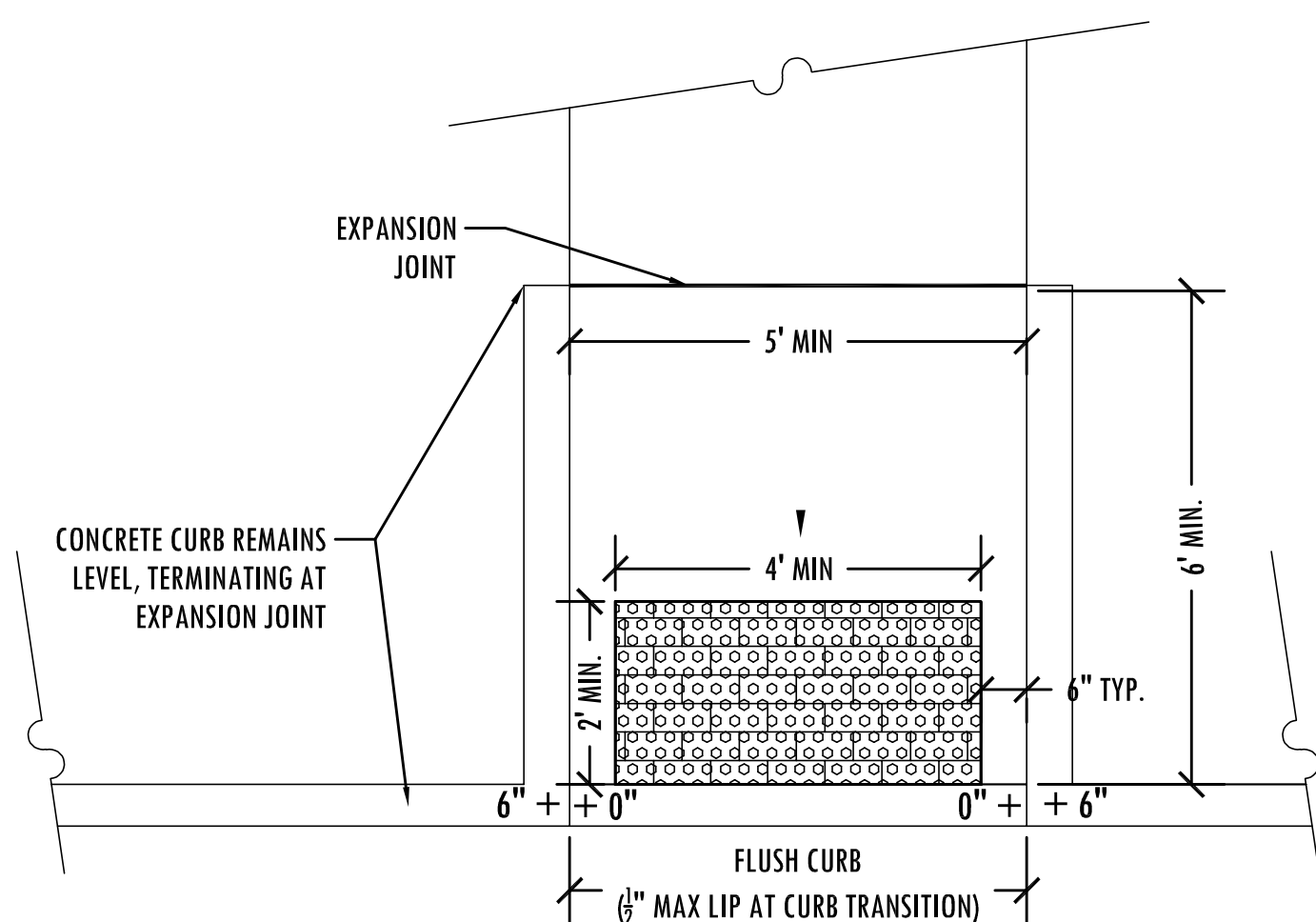
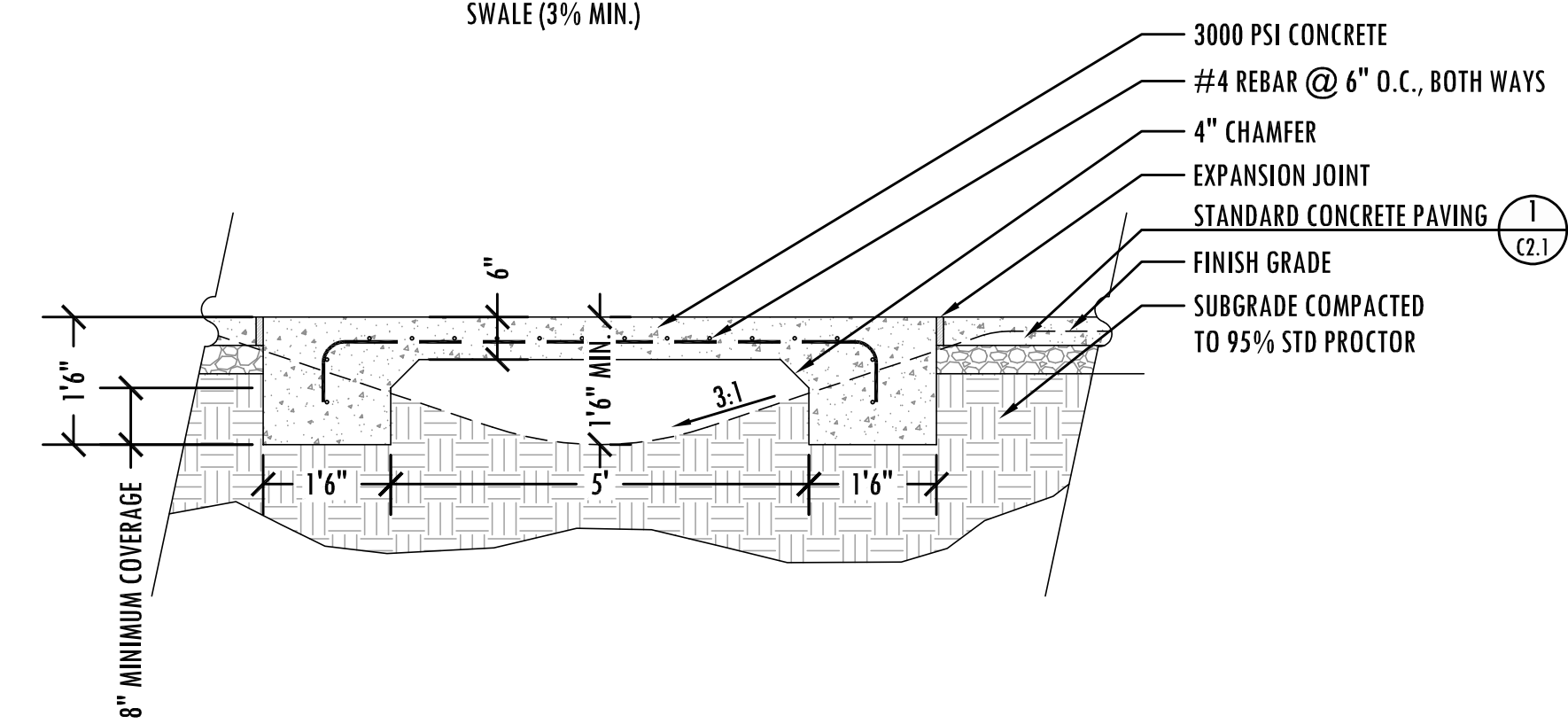


- EXPANSION JOINT, TYP.
- STANDARD CONCRETE PAVING
- SEE GRADING PLAN FOR WALKWAY SPOT ELEVATIONS

5 ADA RAMP & RAILING
 C2.1 NTS

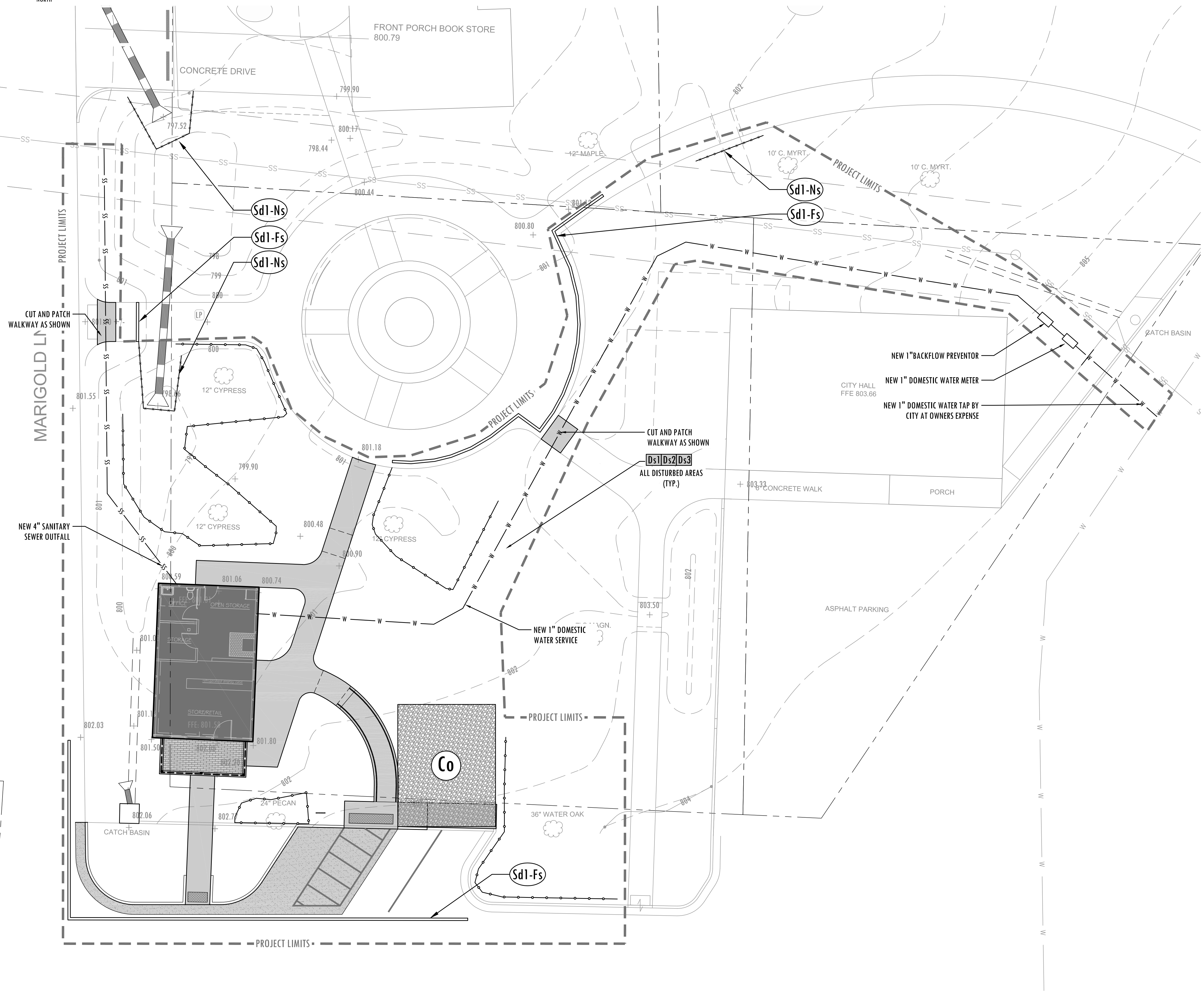
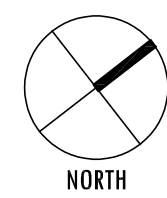
6 CONCRETE HEADER CURB
 C2.1 NTS

7 BRIDGED CONCRETE PATH
 C2.1 NTS



- NOTE:
- ALL NEW PAVEMENT TO MEET EXISTING PAVEMENT OR ADJACENT NEW PAVEMENT FLUSH UNLESS OTHERWISE SPECIFIED.
 - BRICK PAVERS TO BE PINE HALL TRUNCATED DOME ADA PAVERS IN RED. SEE DETAIL 4-C2.1 FOR BRICK PAVEMENT PROFILE.

8 CURB RAMP
 C2.1 NTS



SEDIMENT & EROSION CONTROL LEGEND:

Ds1	DISTURBED AREA STABILIZATION - MULCHING
Ds2	DISTURBED AREA STABILIZATION - SEEDING
Ds3	DISTURBED AREA STABILIZATION - PERM. VEG.
Sd1-Ns	SEDIMENT BARRIER: TYPE NON-SENSITIVE
Sd1-Fs	SEDIMENT BARRIER: FILTER SOCK
Co	CONSTRUCTION EXIT

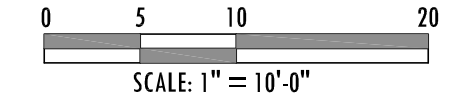
EROSION CONTROL NOTES

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.
1. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED BY THE CONTRACTOR TO CONTROL OR TREAT THE SEDIMENT SOURCE.
2. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
3. SEE EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES FOR ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL INFORMATION INCLUDING SOIL DESCRIPTION, CONSTRUCTION SCHEDULE, AND VEGETATION PLAN.
4. ACCORDING TO THE NATIONAL WETLANDS INVENTORY AND ON-SITE OBSERVATION, NO PORTION OF THE PROJECT AREA LIES WITHIN OR WITHIN 200 FEET OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS.
5. PRIOR TO LAND DISTURBANCE, ESTABLISH BENCHMARK IN FIELD.
6. ANY AMENDMENTS/REVISIONS/FIELD ADJUSTMENTS TO THE APPROVED EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN THAT HAS A SIGNIFICANT IMPACT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN ENGINEER.
7. SOIL EROSION CONTROL MEASURES ARE TO BE MAINTAINED FOR THE DURATION OF THE PROJECT BY THE CONTRACTOR OR SUBCONTRACTOR WHO INSTALLED SAID MEASURES, INCLUDING REMOVAL OF SILT WHEN FACILITIES ARE 1/3 FULL.

UTILITY NOTES

1. ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH ATHENS CLARKE COUNTY STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION AND DETAILS, LATEST EDITION.
2. CONTRACTOR TO NOTIFY UTILITIES PROTECTION CENTER 72 HOURS PRIOR TO LAND DISTURBING ACTIVITY.
3. CONTRACTOR TO COORDINATE THE LOCATION OF WATER SERVICE LINES WITH PLUMBING STUBS FROM THE BUILDINGS.
4. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND SHALL BE MAINTAINED UNTIL A PERMANENT GROUND COVER IS ESTABLISHED.
5. THE CONTRACTOR SHALL COORDINATE ALL UTILITY INSTALLATIONS.
6. EXISTING UNDERGROUND UTILITY LOCATIONS AS SHOWN SHOULD BE CONSIDERED APPROXIMATE AND MAY NOT BE COMPLETE. UNDERGROUND UTILITIES AS SHOWN ARE BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES. ANY DAMAGE TO SUCH UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS COST AND PER THE UTILITY SPECIFICATIONS.
7. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER LINES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER/FIRM.
8. THE CONTRACTOR SHALL NOTIFY THE CITY OF MONROE UTILITIES INSPECTOR 24 HOURS PRIOR TO BEGINNING CONSTRUCTION.
9. PRIOR TO PERFORMING ANY LAND DISTURBING ACTIVITIES OR WHEN WORK IS TO BE PERFORMED WITHIN 10 FEET OF HIGH VOLTAGE OVERHEAD POWER LINES, THE CONTRACTOR IS REQUIRED BY LAW TO NOTIFY THE UTILITY PROTECTION CENTER AT 1-800-282-7411 OR BY CALLING 811. 72 HOURS ADVANCED NOTICE IS REQUIRED.
10. PIPE BEDDING SHALL BE IN ACCORDANCE WITH ATHENS CLARKE COUNTY DETAILS.
11. THRUST BLOCKS SHALL BE PLACED AT ALL THE PLUGS, TEES, AND BENDS 11.25" AND GREATER.
12. DISINFECTION OF WATER MAINS AND DISPOSAL OF HEAVY CHLORINATED WATER SHALL BE IN ACCORDANCE WITH AWWA STANDARDS.
13. ALL SANITARY AND WATER MAIN CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARDS AND ACCORDANCE WITH CITY OF MONROE STANDARD SPECIFICATION FOR SANITARY SEWER LINE CONSTRUCTION AND DETAILS, LATEST EDITION.
14. ALL PVC MATERIALS AND PLASTIC SERVICE LINES SHALL BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR POTABLE WATER SERVICE.
15. MINIMUM COVER ON PROPOSED WATERLINES IS 4'.
16. ANY OPEN ROAD CUTS TO BE RESURFACED PER ATHENS CLARKE COUNTY REQUIREMENTS AND DETAILS.
17. WATER SERVICE LINE MATERIALS AND INSTALLATION TO BE IN CONFORMANCE WITH ATHENS CLARKE COUNTY REQUIREMENTS.

UTILITY & EROSION CONTROL PLAN
SCALE: 1" = 10'-0"



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CONSULTANT:

N.F.C.

TITLE:

**CITY OF WINTERVILLE
BLACKSMITH SHOP
WINTERVILLE, GA**

PROJECT NO:
DRAWN BY: DJ
CHECKED BY: JK
SCALE: AS NOTED

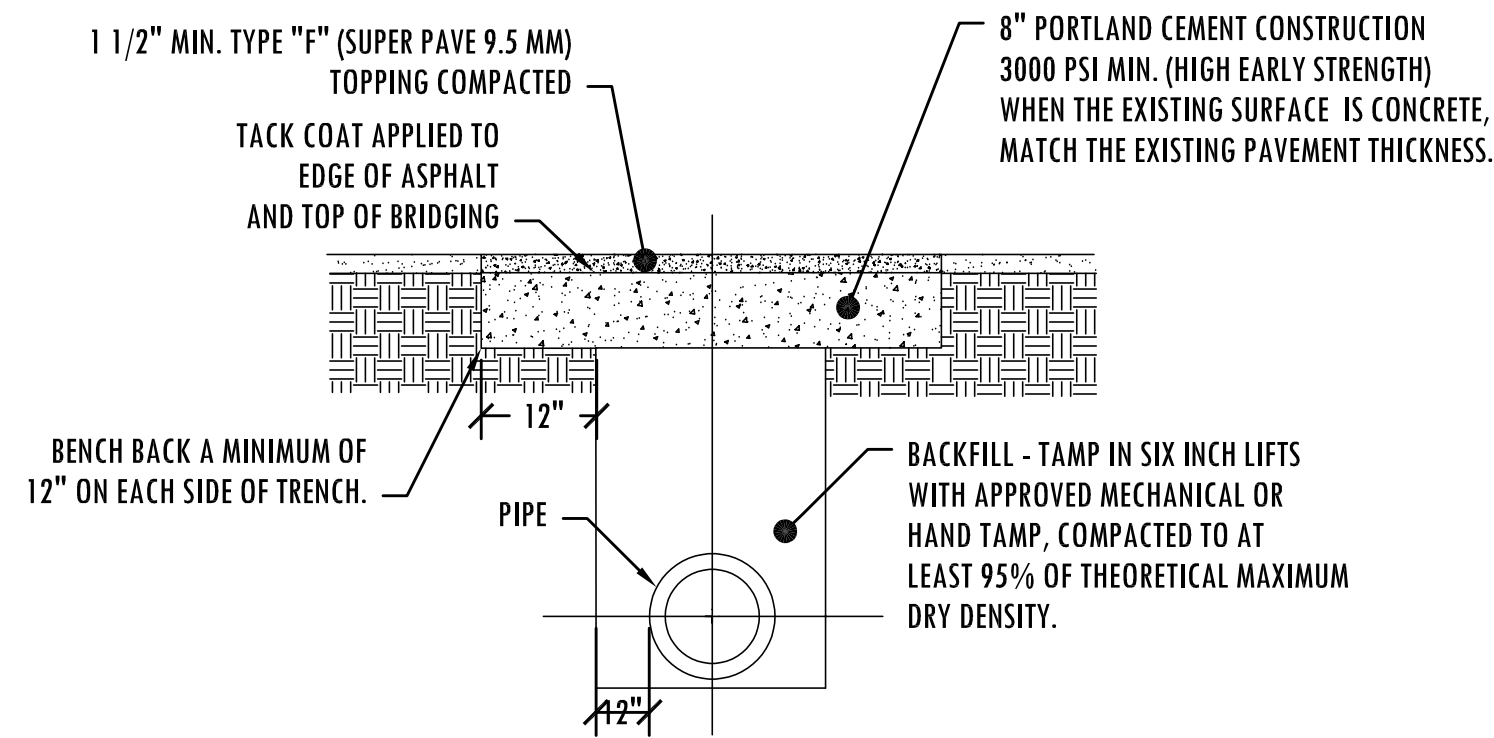
ISSUANCE:
DATE:

UTILITY & EROSION CONTROL PLAN

SHEET NUMBER:

C4.0

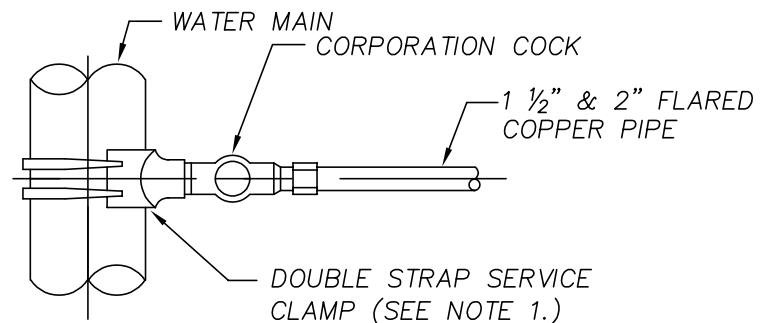
BID PACKAGE - NOT FOR CONSTRUCTION



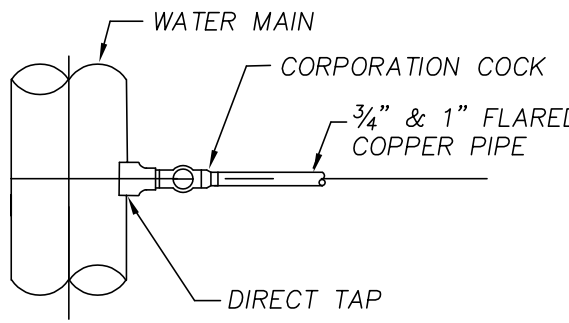
- NOTES:
- ALL LATERAL STREET CUTS MUST BE COVERED WITH A STEEL PLATE OF SUFFICIENT THICKNESS TO SPAN THE CUT WITHOUT NOTICEABLE DEFLECTION. PLATES TO REMAIN IN PLACE UNTIL THE CONCRETE BASE HAS GAINED SUFFICIENT STRENGTH TO WITH STAND TRAFFIC LOADS (24 HR MIN.). WITHIN NOT LONGER THAN SEVEN CALENDAR DAYS OF BEGINNING OF CONCRETE POUR THE AREA WILL BE TOPPED OUT.
 - WHERE COMPACTION CAN NOT BE OBTAINED WITH EARTH MATERIALS, USE NO.57 OR FLOWABLE FILL AS DETERMINED BY INSPECTOR.
 - WORK TO BE INSPECTED BY THE ATHENS-CLARKE COUNTY INSPECTOR.

1 PAVING PATCH
C4.1 NOT TO SCALE

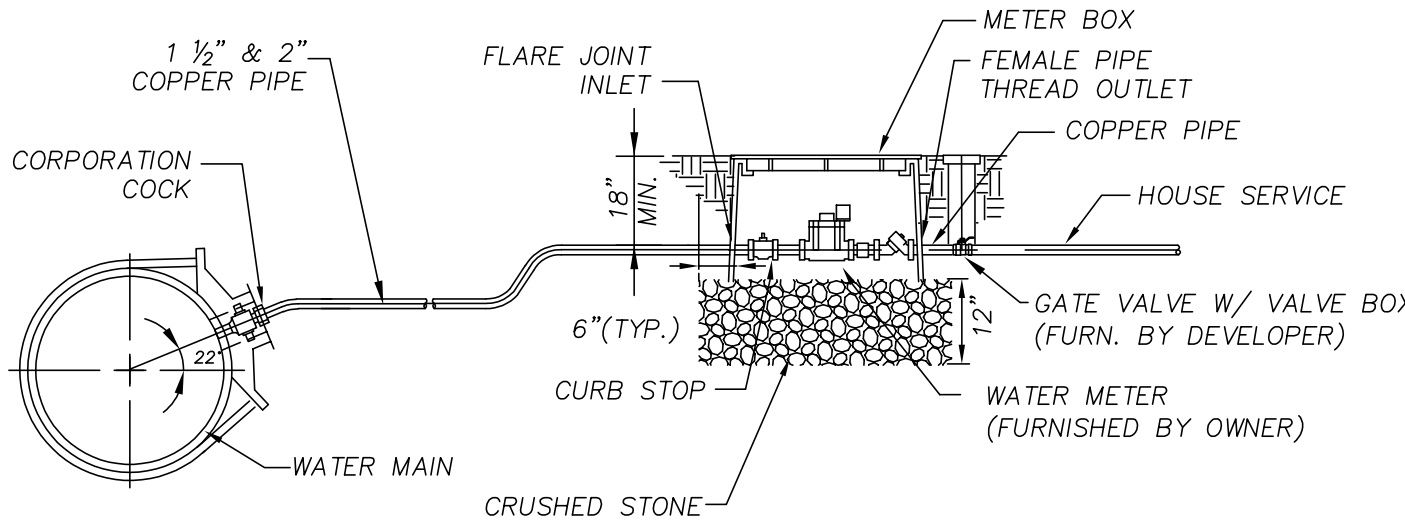
PLAN FOR 1 1/2" & 2" PIPE



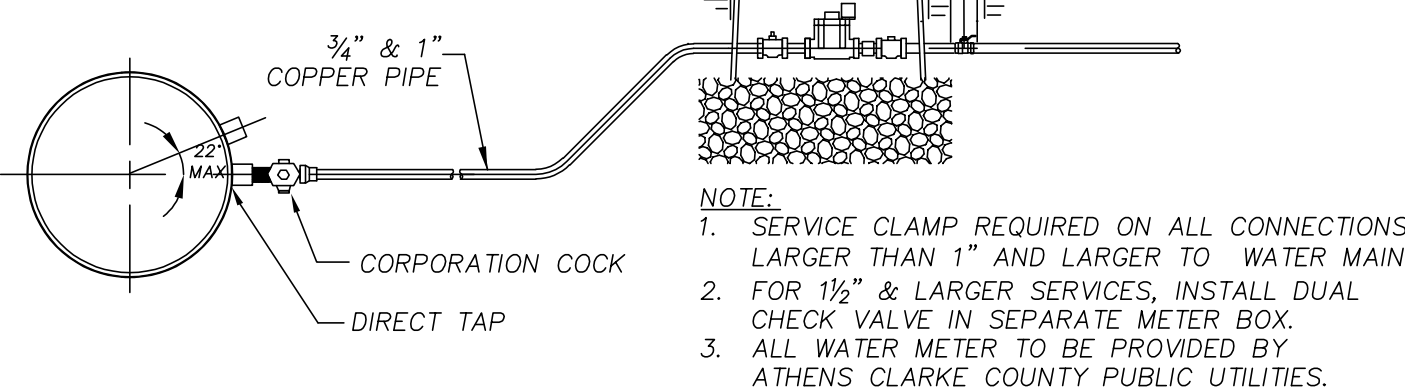
PLAN FOR 3/4" & 1" PIPE



ELEVATION FOR 1 1/2" & 2" COPPER PIPE



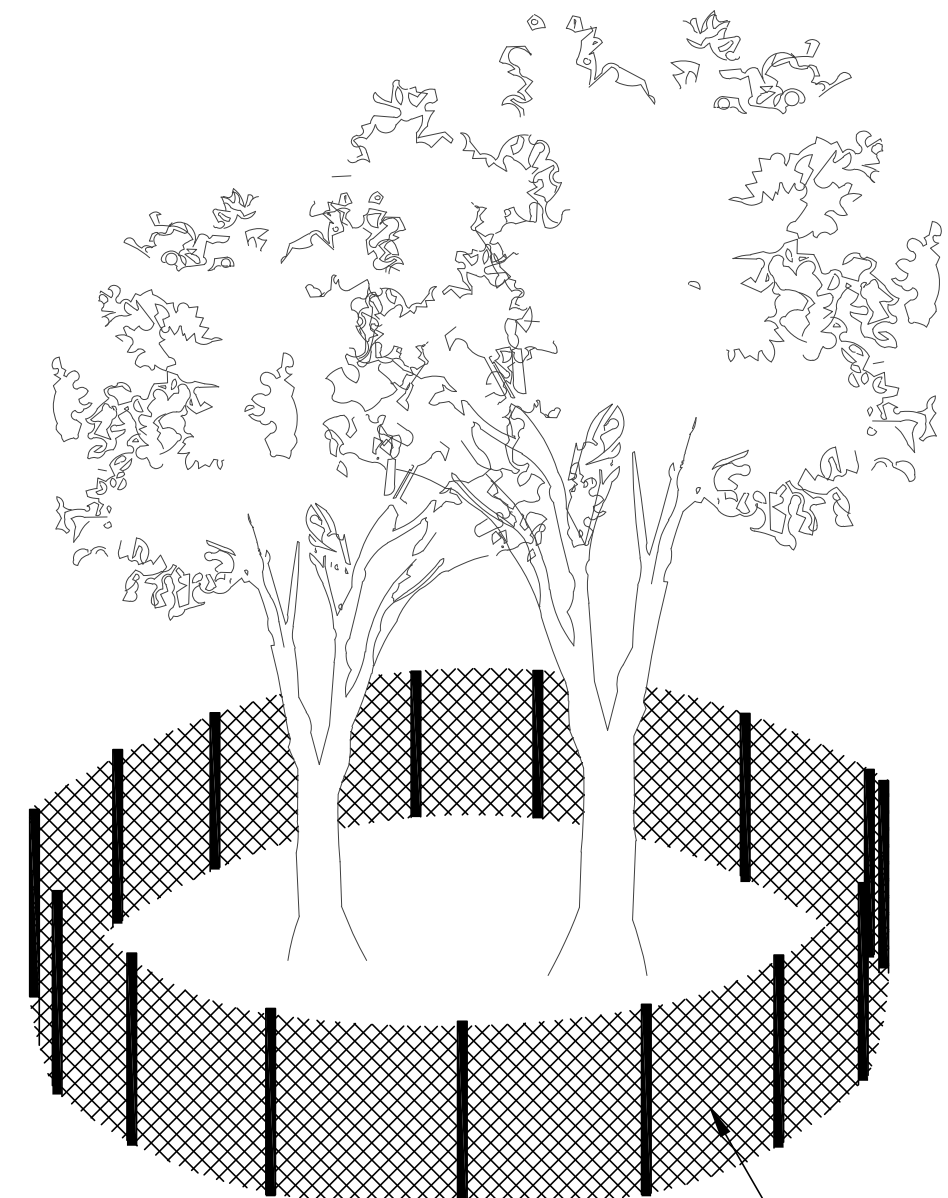
ELEVATION FOR 3/4" & 1" PIPE



- NOTE:
- SERVICE CLAMP REQUIRED ON ALL CONNECTIONS LARGER THAN 1" AND LARGER TO WATER MAIN.
 - FOR 1 1/2" & LARGER SERVICES, INSTALL DUAL CHECK VALVE IN SEPARATE METER BOX.
 - ALL WATER METER TO BE PROVIDED BY ATHENS CLARKE COUNTY PUBLIC UTILITIES.

Water Service & Meter Connection
NTS

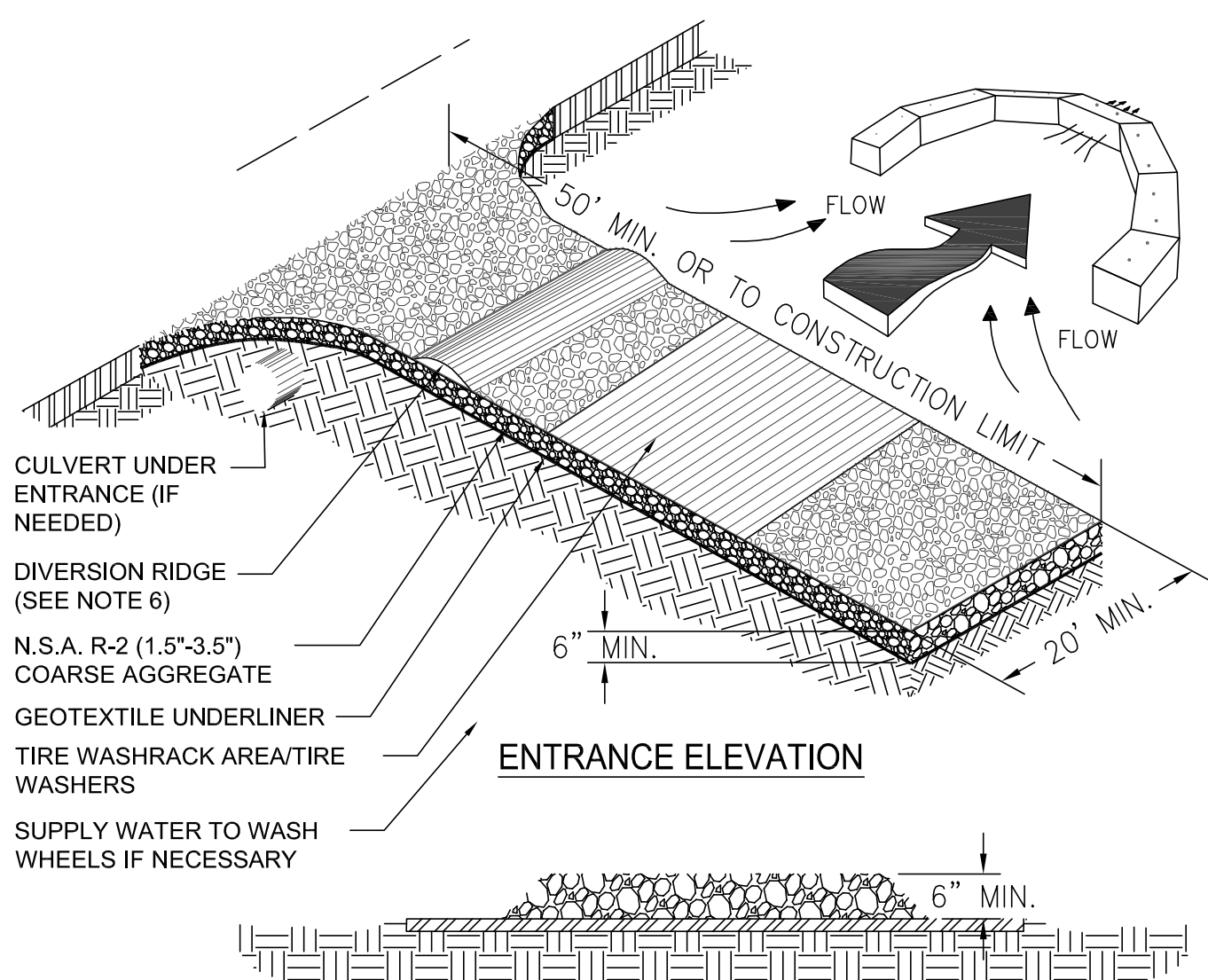
5 WATER SERVICE DETAIL
C4.1 NOT TO SCALE



- NOTE:
- TREE PROTECTION FENCING TO BE 48" TALL, ORANGE, UV-RESISTANT POLY BARRICADE.
 - TREE FENCING TO BE SECURED TO 6' LONG METAL STAKES DRIVEN 24" INTO THE GROUND.
 - TREE FENCING TO BE PLACED AROUND DRIP LINE OF TREE CANOPY TO BE PROTECTED. FENCING LOCATION TO BE ADJUSTED AS NEEDED DURING CONSTRUCTION TO FACILITATE INSTALLATION OF PROPOSED IMPROVEMENTS IN THE PROTECTION AREA.
 - FENCING TO BE MAINTAINED THROUGHOUT THE PROJECT DURATION.

2 TREE PROTECTION FENCING
C4.1 NOT TO SCALE

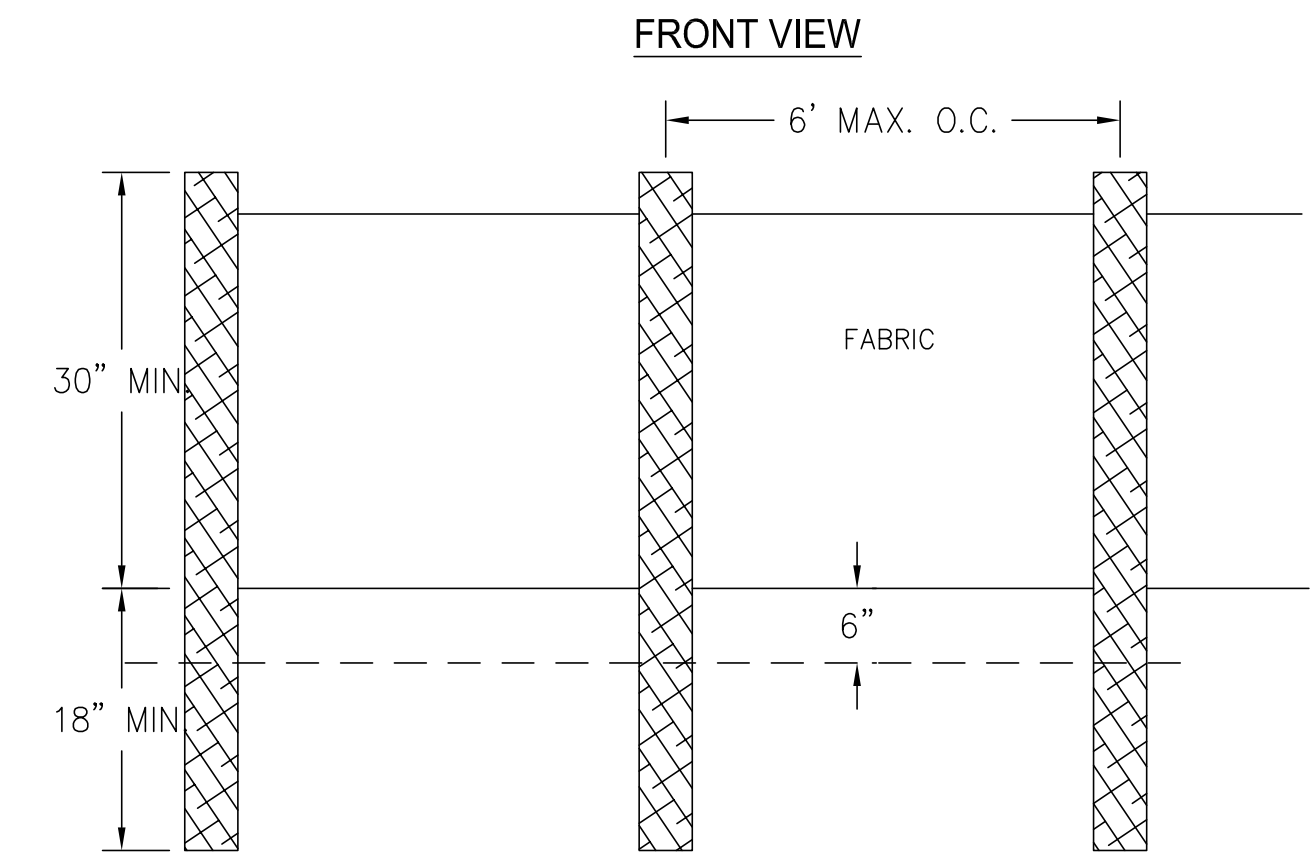
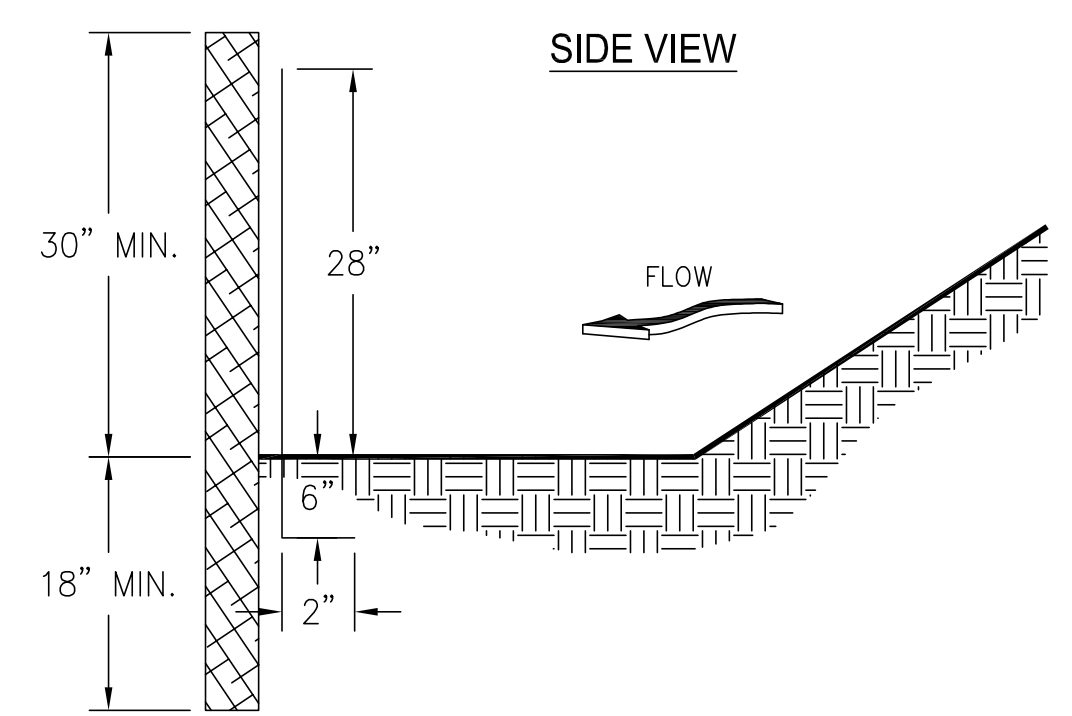
EXIT DIAGRAM



- NOTES:
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co CONSTRUCTION EXIT

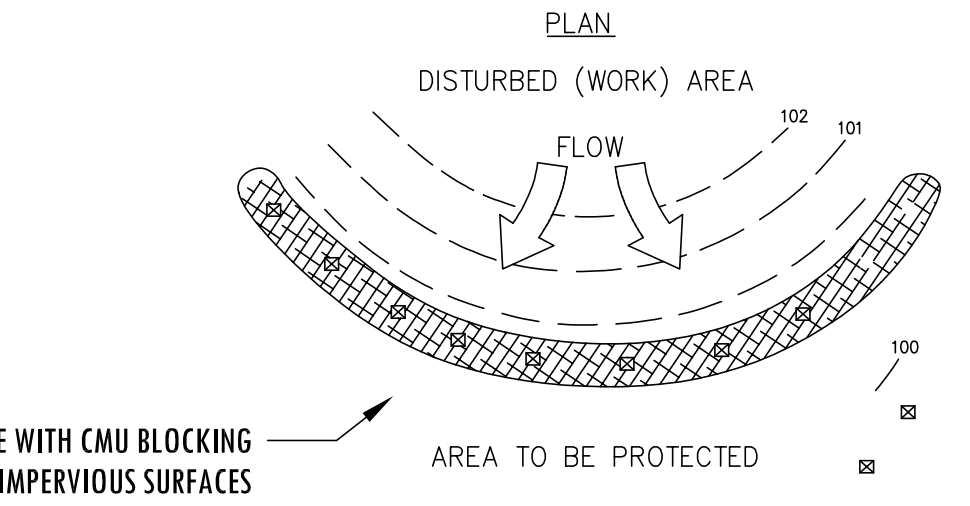
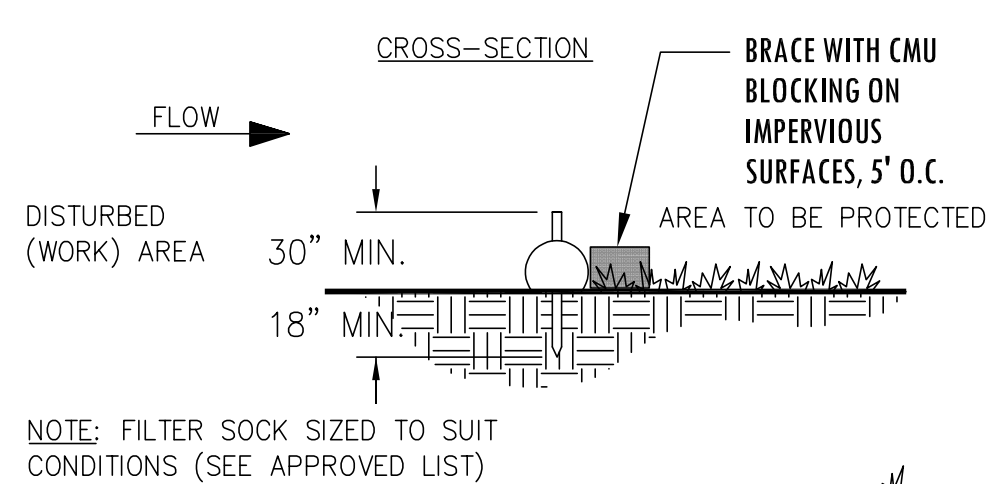
6 CONSTRUCTION EXIT
C4.1 NOT TO SCALE



- NOTES:
- USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-Ns SEDIMENT FENCE - TYPE Ns

3 SEDIMENT FENCE TYPE NON SENSITIVE
C4.1 NOT TO SCALE



- NOTES:
- ALL MATERIAL TO MEET SPECIFICATIONS.
 - FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

SD1-Fs FILTER SOCK

7 FILTER SOCK
C4.1 NOT TO SCALE

Ds1 Ds2 Ds3 Du

- VEGETATIVE PLAN:
DISTURBED AREA STABILIZATION WITH TEMPORARY AND PERMANENT SEEDING TO CONSIST OF GRADING, SHAPING, SEEDBED PREPARATION, LIME AND FERTILIZATION, INOCULANTS, PLANTING, MULCHING, IRRIGATION, TOP DRESSING, AND MAINTENANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEORGIA SOIL AND WATER COMMISSION'S MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION. LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE LAND PREPARATION SO THAT IT CAN BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION. MULCH SHALL BE UTILIZED ON SLOPES STEEPER THAN 3%, IN THE BOTTOM OF SPILLWAYS, AND ON ROADBANKS. APPLICATION RATES SHALL BE AS FOLLOWS:
- LIME: 1 TON PER ACRE
 - FERTILIZER: 1500 POUNDS PER ACRE (6-12-12) FOR INITIAL APPLICATION. APPLY 1000 POUNDS PER ACRE (6-12-12) AT START OF SECOND YEAR IF PROJECT LASTS MORE THAN ONE YEAR.
 - MULCH:
 - TEMPORARY: DRY STRAW MULCH TO BE APPLIED AT A RATE OF 2 TONS PER ACRE AT A DEPTH OF 4-6 INCHES, PROVIDING 75% COVERAGE.
 - PERMANENT: DOUBLE GROUND HARDWOOD MULCH, AGED MINIMUM 90 DAYS, AT A MINIMUM DEPTH OF 3".
 - TEMPORARY SEEDING:
 - RYE GRASS, 40 LBS PER ACRE, AUGUST THROUGH APRIL
 - BROWN MILLET, 10-40 LBS PER ACRE, APRIL THROUGH JUNE
 - PERMANENT SEEDING:
 - TALL FESCUE, 30-50 LBS PER ACRE, AUGUST THROUGH OCTOBER
 - HULLED BERMUDA, 6-10LBS PER ACRE, MARCH THROUGH JUNE
 - UNHULLED BERMUDA, 6-10 LBS PER ACRE, OCTOBER THROUGH FEBRUARY

4 TEMPORARY STABILIZATION
C4.1 NOT TO SCALE

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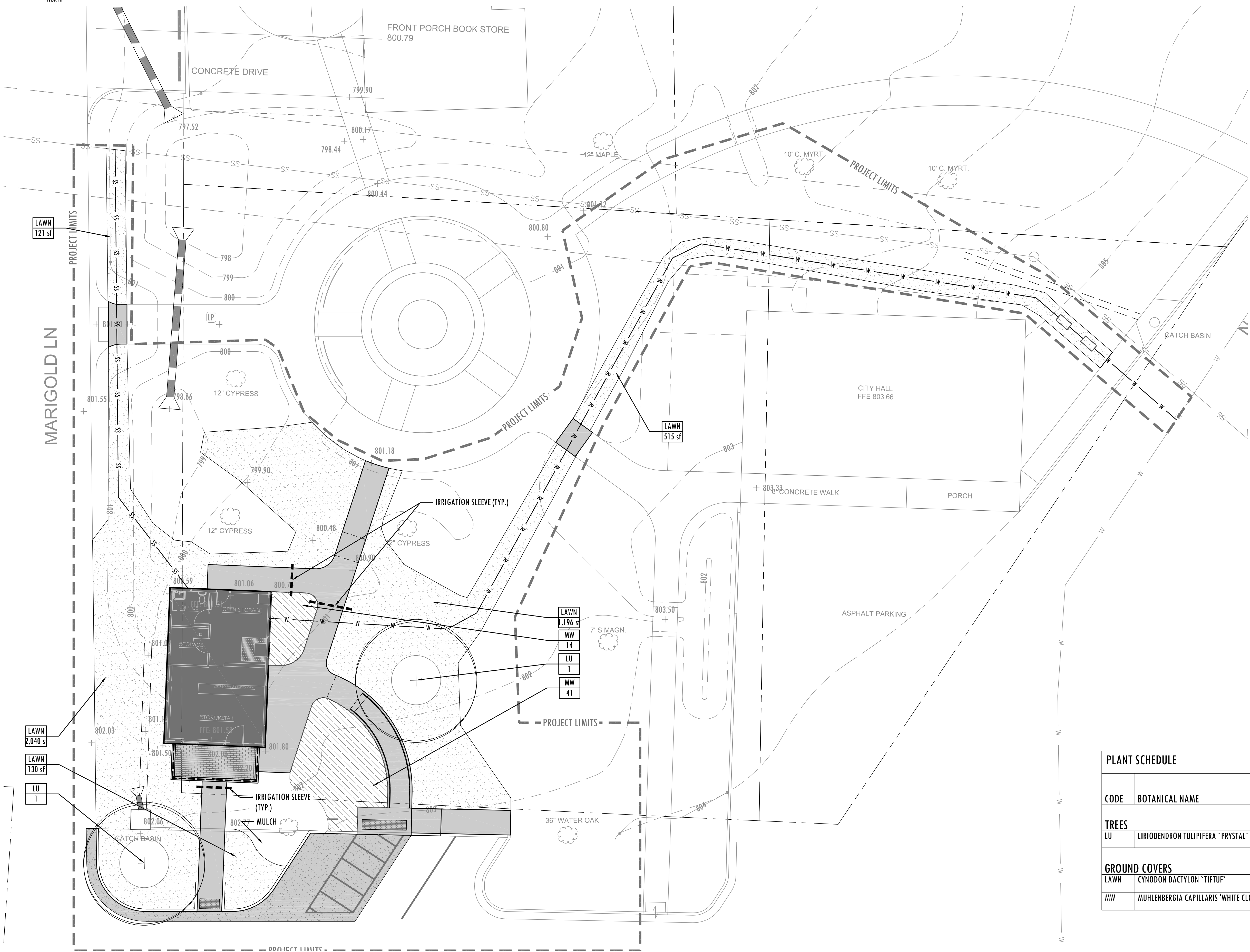
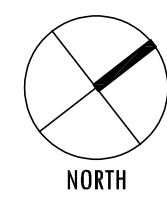
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UTILITY & EROSION CONTROL DETAILS

SHEET NUMBER:

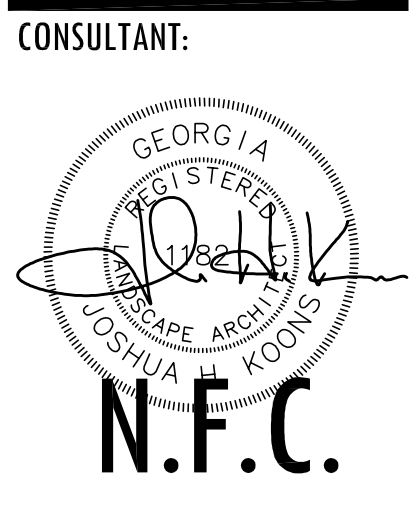
C4.1

BID PACKAGE - NOT FOR CONSTRUCTION



- NOTES:
1. CONTRACTOR TO PROVIDE AND INSTALL A FULLY FUNCTIONAL IRRIGATION SYSTEM PROVIDING DRIP IRRIGATION TO ALL TREES AND GROUNDCOVERS ON (1) ZONE & SPRAY IRRIGATION TO SOD AREAS ON (1) ZONE. SUBMIT SHOP DRAWINGS TO INDICATE TYPES OF PROPOSED MATERIALS (ALL PIPING, VALVES, HEADS, AND CONTROLS), ZONES OF OPERATION, CONTROLLER LOCATION AND ELECTRICAL FEED. SYSTEM TO TIE TO PROPOSED DOMESTIC WATER LINE AND INCLUDE BACKFLOW PREVENTOR & GATE VALVE AT CONNECTION INSTALLED BY CONTRACTOR. COORDINATE LOCATION OF ALL COMPONENTS WITH OWNER AND LANDSCAPE ARCHITECT.
 2. PLANTS TO BE SET IN PROPOSED LOCATIONS WHILE STILL IN CONTAINERS FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 3. PLANT MATERIALS SOURCED OUTSIDE THE STATE OF GEORGIA TO BE SUBMITTED FOR APPROVAL BY LANDSCAPE ARCHITECT.
 4. CONTRACTOR TO CONFIRM PLANT QUANTITIES PRIOR TO ORDERING MATERIALS.

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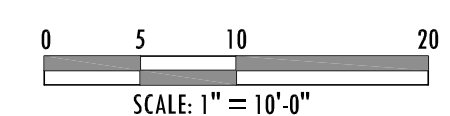
PLANTING PLAN

SHEET NUMBER:

C5.0

PLANT SCHEDULE				
CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
TREES				
LU	LIRIODENDRON TULIPIFERA 'PRYSTAL'	PRYSTAL TULIP POPLAR	2.5" CAL.	2
GROUND COVERS				
LAWN	CYNODON DACTYLON 'TIFTUF'	BERMUDA GRASS	SOD	4,002 SF
MW	MUHLENBERGIA CAPILLARIS 'WHITE CLOUD'	WHITE CLOUD MUHLY GRASS	1 GAL.	36" o.c. 55

1 PLANTING PLAN
 SCALE: 1" = 10'



BID PACKAGE - NOT FOR CONSTRUCTION

"General Decision Number: GA20240321 03/22/2024

Superseded General Decision Number: GA20230321

State: Georgia

Construction Type: Building

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories)

Counties: Clarke, Madison, Oconee and Oglethorpe Counties in Georgia.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 14026 generally applies to the contract.. The contractor must pay all covered workers at least \$17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 13658 generally applies to the contract.. The contractor must pay all covered workers at least \$12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/05/2024
1	03/22/2024

ASBE0048-003 04/05/2023

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 28.09	17.19

ELEC0613-009 09/07/2023

	Rates	Fringes
ELECTRICIAN.....	\$ 34.50	32%

ENGI0474-005 07/01/2020

	Rates	Fringes
POWER EQUIPMENT OPERATOR: Backhoe/ Excavator/ Trackhoe.....	\$ 30.00	15.68

ENGI0926-005 07/01/2022

	Rates	Fringes
POWER EQUIPMENT OPERATOR: Crane.....	\$ 34.66	13.83

ENGI0926-006 07/01/2020

	Rates	Fringes
POWER EQUIPMENT OPERATOR: Forklift.....	\$ 33.18	13.83

* IRON0387-002 01/01/2024

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 30.24	14.81
IRONWORKER, STRUCTURAL.....	\$ 30.24	14.81

PLUM0072-006 08/01/2023

	Rates	Fringes
PIPEFITTER.....	\$ 36.58	15.81

SHEE0085-023 07/01/2023

	Rates	Fringes
SHEET METAL WORKER.....	\$ 34.15	16.49

* UAVG-GA-0001 01/01/2024

	Rates	Fringes
IRONWORKER, REINFORCING.....	\$ 30.08	17.12

* SUGA2017-036 04/15/2021

	Rates	Fringes
CARPENTER.....	\$ 24.68	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 22.92	0.00
HVAC MECHANIC (HVAC Pipe Installation Only).....	\$ 26.17	12.23
HVAC MECHANIC (Installation of HVAC Unit Only).....	\$ 26.17	12.23
LABORER: Common or General.....	\$ 14.06 **	0.00
LABORER: Pipelayer.....	\$ 12.55 **	1.90
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 14.88 **	0.00
OPERATOR: Bulldozer.....	\$ 15.23 **	0.00
OPERATOR: Grader/Blade.....	\$ 16.80 **	0.00
OPERATOR: Loader.....	\$ 14.86 **	0.00
OPERATOR: Roller.....	\$ 14.05 **	0.00
PAINTER (Brush and Roller).....	\$ 16.14 **	0.00
PAINTER: Spray.....	\$ 16.29 **	0.00
PLUMBER.....	\$ 30.68	10.75

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.20) or 13658 (\$12.90). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic

violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"