



Addendum #3
Historic Oak View County Park Renovations

To: All Plan Holders
 From: Kimley-Horn & Associates
 Date: Friday, February 6, 2026
 Project Name: Historic Oak View County Park Renovation
 Project: RFB #26-001
 Subject: Addendum #3

This Addendum becomes part of the Contract Documents and shall be acknowledged by each Bidder on the Bid Form. Each Bidder should read each item carefully. All parts of the original specifications and plan documents shall remain in force except as noted below:

Updated Plan Holder's List:

Company Name	Contact	Email	Phone Number
Associated General Contractors	Michael Stubbs		800-364-2059 x8137
Beam General Contractors	Joshua Reeder	joshr@jdbeam.com	919-612-0737
Blackridge Research & Consulting	Venkatesh Siva		917-993-7467
Browe Construction	Sam Gore Chad Grady	sam.gore@browecon.com	919-415-1616
CMC Building, Inc.	Parin Bodiwala Phillip Swicegood	parin@cmcbuildinginc.com	919-295-2163
Dodge Data and Analytics	Jayalakshmi L		413-376-7032
QTO Solutions	Haroon Cheema	info@qtosol.com	480-409-1578
Scotia Construction Inc.	Wyatt Stevens Garrett Hodges	wyatt@scotiaconstructioninc.com	919-467-0293
C.T. Wilson Construction Co., Inc.	Kevin Hartzog	kevin@ctwilson.com	919-383-2535
BAR Construction Company	Austin Riccio	bids@BARConstruction.com	919-295-2163
Johnson Controls	Steven Tichenor	steven.tichenor@JCI.com kevin.d.brese@jci.com	984-382-7462

Fred Smith Company	Carl Collie	ccollie@Fredsmithcompany.net	919-901-8225
River Wild	Brandon Casey	brandon@staywild.com	919-631-6737
Bliss Products & Services	Andy Caguioa	andy@blissproducts.com	
Racanelli Construction South, Inc.	Scott Drebitko	sdrebitko@racanelliconstruction.com	919-363-3600
Harrod & Associates Constructors, Inc.	Ed Long	elong@harrodandassoc.com	919-828-7782
HM Kern Corporation	Kristy Pruitt Zack Poole Kyle Upchurch	estimating@hmkern.com kupchurch@hmkern.com	336-668-3213 336-589
Muter Construction	Cindy Cayton	ccayton@muterconstruction.com	919-404-8330
Construct Connect	Jessica Thomas	Jessica.Thomas@ConstructConnect.com	513-458-5943
Riley Contracting Group	Chris Swartz	cswartz@rileycontracting.com	716-445-3460
WC Construction Company	Mark Reyes Patrick Roth	mark@wcconstructionco.com	336-721-3420 x121
McClure Builders	Logan McClure	logan@mcclurebuilders.com	919-369-9275
Troy Hutchins Construction	Troy Hutchins	troy@troyhutchinsconstruction.com	919-451-0812
Barnhill Contracting Company	Taliyah Sowe	tsowe@barnhillcontracting.com	704-215-3280
ML Bind	Shauna Raymond	SRaymond@mlbind.com	518-289-1371 x145
Engineered Construction Company	Scott Dawson	sdawsonsr@engrconst.com	919-954-9090
MLG Construction	Keith Ziomek	kziomek@mlgconstructionllc.com	919-977-1646
Earthwork Calculations Group	Justin Tibbs	projects@earthworkcalcs.com	360-589-0790
Overhead Door Company	Duane Giffin	Duane.Giffin@dhpac.com	336-510-7392
Carolina Sales Associates	Brad Sturgill	b.sturgill@csareps.com r.allison@csareps.com	803-370-5316
Arrowood Manufacturing	Sean Black	sblack@arrowoodmfg.com	704-322-6509
DEPS Security Group	JC Epp	jepp@depsnet.com	252-637-5012

Questions Received:

- Q:** In Specification Section 083323, Paragraph 2.3.H.2 calls for gaskets between slats which are not available on the specified product. Are they required on this project and, if so, who offers them?

A: This Specification has been reissued and is included as an attachment to this Addendum. Void this requirement.
- Q:** In Specification Section 083323, Paragraph 2.3.I & 2.3.J calls for bottom bar and guides to be galvanized and finished to match curtain slats. Unfortunately, a finish will not adhere to the type of galvanizing used on these components. Please address how we should handle this conflict in spec.

A: This Specification has been reissued and is included as an attachment to this Addendum. Guides and bottom bar may be left as hot dip galvanized steel.
- Q:** In Specification Section 083323, Paragraph 2.3.M calls for through-wall shaft operation which is unusual for this application. Is this required?

A: This Specification has been reissued and is included as an attachment to this Addendum. Void this requirement.

4. **Q:** In Specification Section 083323, Paragraph 2.3.P calls for anodized aluminum finish, baked enamel or powdercoat finish. Which finish is required?
A: This Specification has been reissued and is included as an attachment to this Addendum. Design intent is for garage door panels to be finished to match corrugated metal siding. Architect to pick from manufacturers full range of options.
5. **Q:** In Specification Section 083323, Paragraph 2.5.A calls for steel, stainless steel, and aluminum door construction material. What is the correct construction material for door slats?
A: This Specification has been reissued and is included as an attachment to this Addendum. Aluminum is required.
6. **Q:** In Specification Section 083323, Paragraph 2.6.A calls for galvanized steel, stainless steel, or aluminum hoods. Which is correct material for door hoods?
A: This Specification has been reissued and is included as an attachment to this Addendum. Aluminum is required.
7. **Q:** In Specification Section 083323, Paragraph 2.7 calls for slide bolt locks then goes on to call for cylinder locks. Which lock type is required?
A: This Specification has been reissued and is included as an attachment to this Addendum. Cylinder is required.
8. **Q:** In Specification Section 083323, Paragraph 2.10.C calls for multiple motor mounting locations. Which mounting location is required as they can affect costs?
A: This Specification has been reissued and is included as an attachment to this Addendum. Manual door with chain hoist is required.
9. **Q:** In Specification Section 083323, Paragraph 2.10.F.2 calls for an electric sensor edge but 2.10.F.3 calls for a pneumatic Sensor edge. Which is required?
A: This Specification has been reissued and is included as an attachment to this Addendum. Manual door, no sensor is required.
10. **Q:** There are several items in the structural plans that may be better priced as unit price items. Should the unit price list be extended to include these items and others?
A: The design team requests a unit price for a new footing installed at the same elevation and of the same size as the existing footing, reinforced with (2) #5 bars each way. This unit price is intended to address conditions where existing footings are found to be defective, damaged, or require removal, in accordance with VC.S1.01, and to ensure alignment between the General Contractor and Owner. A similar unit pricing approach shall apply to existing wood members per VC.S1.02. While the overall project is lump sum, the contractor shall carry any contingencies and allowances they deem appropriate to reasonably address these potential conditions. See the updated Unit Prices section of the Bid Proposal Form and the updated Specification Section 012200 included as attachments to this Addendum.

11. **Q:** Should the unit price for mass rock and trench rock be broken down into mobilization pricing instead of unit pricing?
A: A unit price has been added to the bid form to cover mobilization of mass rock and trench rock removal. Please see the updated Unit Prices section of the Bid Proposal Form and the updated Specification Section 012200 – Unit Prices included as attachments to this Addendum.
12. **Q:** May we allow the casework identified in Section 064101 of the Specification to be priced by companies other than the three listed in Section 064101?
A: Additional millwork companies are acceptable provided they meet the standards set forth in the drawings and specifications.
13. **Q:** May our structural/miscellaneous steel fabricator provide pricing if they are not AISC certified?
A: Contract drawings designate to FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). Preference is to have steel fabricator AISC certified (but not required), as this is generally recommended to ensure minimum quality control, inspection procedures, welding oversight, and documented fabrication / erection processes consistent with the design assumptions and code requirements. Finalized and formal steel shop drawings (produced in CAD) is still required.
14. **Q:** Page 064101-3 and 064101-4 request products from three specific millwork companies. Please clarify if other millwork contractors are allowed to bid on this as long as they meet the specifications.
A: Additional millwork companies are acceptable provided they meet the standards set forth in the drawings and specifications.
15. **Q:** The Specifications call for us to provide an alternate for Door Hardware that is an owner preferred alternate. I do not see this on the bid form. Will a new bid form be sent out?
A: Owner preferred alternate is in specifications. This has been added to the Alternates section of the Bid Proposal Form and updated in Specification Section 012100 – Alternates. These updated documents have been included as attachments to this Addendum.
16. **Q:** The Specifications call for us to remove areas of roof that are wet and damp and replace via unit price. I do not see a unit price for this. Will this be added?
A: Any defective, wet, or damp roof sheathing encountered shall be removed and replaced with like-kind materials. For pricing purposes, verify on site, or assume 4x8 sheathing, 1/2 inch thick, APA-rated plywood, installed to match existing conditions. Areas that have 2x roof decking, similar patch and replace. The project is lump sum; the contractor shall carry any contingencies and allowances they deem appropriate to reasonably address these potential conditions. Unit pricing is intended to establish alignment between the GC and Owner should these conditions be encountered.

17. **Q:** Will the Owner handle any access control work for card readers?
A: There is an allowance provided for security and also security plans that have been designed by Protus3. The contractor will be responsible for installing everything as noted on the security plan, however, Wake County will handle programming, access cards, etc.
18. **Q:** Will the Owner pay for any capacity use fees associated with the water and sewer tie-ins? If not, can the cost associated with them be provided?
A: Bidders shall include the noted allowance of \$30,000 for use toward permitting and inspection fees.
19. **Q:** The specified outdoor drinking fountain model has been discontinued. Is model 3612FR an acceptable option?
A: Yes, model 3612FR is an acceptable option for the new outdoor drinking fountain. Please see updated Specification Section 129300 – Site Furnishings and updated Detail 2/C3.6 included as attachments to this Addendum.
20. **Q:** There is a discrepancy in quantities between the specifications and the drawings for bike racks, backed benched, backless benches, accessible wood picnic tables, and trash receptacles.
A: Specification Section 129300 – Site Furnishings has been updated and is included as an attachment to this Addendum. Please see the updated Specification included below.
21. **Q:** How is the new outdoor water fountain at the Bluebird Shelter getting water?
A: Sheet 2.2 – Demolition Plan Enlargement and Sheet C4.1 – Fire Access and Hose Lay Plan have both been updated to reflect utility service to the proposed drinking fountain at the Bluebird Shelter. Please see Sheet C2.2 and C4.1 included as attachments to this Addendum for updated utility service to the drinking fountain.
22. **Q:** Specification Sections 083323 1.1.A.3, 1.1.A.4, 1.3.A, 1.3.B, 1.4.C, 1.5.B, 2.2.A, 2.8.A, 2.9.C, 3.2.D, 3.2.E, and 3.3.B all refer to fire doors. Are there any fire doors on this project?
A: No, please disregard.
23. **Q:** Specification Section 083323 2.2.E show aluminum slats that are not impact-rated. Please remove or change the door to steel slat.
A: Void impact requirements.
24. **Q:** The gasket seal identified in Specification Section 083323 2.3.H.2 is not an option due to curtain design.
A: Answered above – reference question #1.
25. **Q:** For Specification Section 083323 2.3.N and 2.10 – Motor Operations, there are no circuits shown on the electrical drawings. Are these doors to be manual or motorized?
A: The garage doors shall be manual operated doors.

26. **Q:** Please advise what finish is required per Specification Section 083323 2.3.P, as this option does affect the cost.
A: Design intent is for garage door panels to be finished to match corrugated metal siding. Architect to pick from manufacturers full range of options.
27. **Q:** Various materials are listed in Specification Section 083323 2.5.A.1, 2.5.A.2, and 2.5.A.3. Please clarify which is required.
A: Answered above – reference question #5.
28. **Q:** Various materials are listed in Specification Section 083323 2.6.A.1, 2.6.A.2, and 2.6.A.3. Please clarify which is required.
A: Answered above – reference question #6.
29. **Q:** In Specification Section 083323 2.7, please clarify which lock type is required.
A: Either type of locking device may be specified.
30. **Q:** Per Specification Section 083323 2.10.F, please clarify which safety devise is required if motor operation is required.
A: Answered above – reference question #9.
31. **Q:** For the proposed blackberry trellis shown on C3.2 and detailed in Detail 8/C3.7, is one trellis post at each end adequate or will there need to be a center post as well?
A: Trellis posts shall be spaced 10' O.C. maximum. Where blackberry trellis' are longer than 10', the posts shall be spaced evenly from each other.
32. **Q:** On Sheet MB.A2.2, Detail 3 notes the overhang as “open to structure”. Detail 2/MB.A5.3 appears to show that as tongue and groove cedar siding. Please clarify.
A: Correct. Structure of roof truss hangs below surface of soffit. Both are visible as per Detail 2/MB.A5.3.
33. **Q:** The glulams are called out as pressure treated at the Bluebird Shelter. Does the tongue and groove decking need to be pressure treated as well?
A: Glulam beams may be subject to side-driven rain, and are required to be P.T. The T&G decking is protected from the elements from the roofing, and is NOT required structurally to be pressure-treated (P.T.)
34. **Q:** On VC.A6.1, Detail 8 makes reference to Specification Section 101100 for a "lockable glass display cabinet". That Specification Section appears to be for marker boards and tack boards. Can some additional information be provided for the lockable glass display case?
A: Drawings and specifications are open to allow either a custom fabricated or a proprietary product that meets qualifications as follows:
- Must be equipped with rubber door gasket, lockable, and provide at least 1” of internal depth between face of backing surface and glass. Vent holes to be provided in side surfaces and weep holes to be provided in bottom surface to expel potential condensate from enclosure. Divisions between display surfaces

and glass panes or doors should be oriented vertically to fit between structural columns per plans. Specify ¼” tempered glass. Lock core to be integrated into cabinet assembly. Any penetrations into the cabinet due to mounting to be filled with silicone sealant. Additional uncovered tack board must be provided as no more than 1/3 of total display.

35. **Q:** Detail 7/VC.A6.1 shows a cast aluminum sign. Can a Specification be provided for the cast aluminum sign?
A: Custom fabricated water-cut park sign and mounting standards to follow material requirements set forth in specification section 055000. Wake County to provide any graphic files necessary for fabrication.
36. **Q:** Has there been an addendum 2 issued for this project?
A: Yes, Addendum 2 was posted on 2/2/2026 and was shared by email with all plan list holder’s on file at the time of posting.
37. **Q:** The drawings reference a Detail 07 on MB.A5.1. I do not see a Detail 07 on this drawing. Will this detail be provided?
A: This is mislabeled on A4.1 – this should read 03/MB.A5.1, and is provided.
38. **Q:** Drawing MB.A4.1 calls out Detail 02 on MB.A5.1. This detail does not match up with the floor plan shown. Please advise what the right detail is.
A: This is mislabeled on A4.1 – this should read 02/MB.A5.2.
39. **Q:** Detail 02 on MB.A5.3 calls for 1x6 cedar siding on the soffit overhangs, however the reflected ceiling plans show this as exposed structure. Which is correct?
A: Answered above – reference #32.
40. **Q:** The concrete material PSI in the specs does not match what is on the structural drawings. Which is correct?
A: Drawings are correct. 3,000 psi for footings, 4,000 psi for slabs on grade.
41. **Q:** The drawings call for us to provide unit pricing for replacement of footings. I do not see this on the bid form. Will it be added?
A: Answered above – reference #10.
42. **Q:** The drawings call for new footings at the visitor’s center for the new roof overhang, however I do not see anywhere telling us to demo the existing footing. Can you verify if there is an existing footing that needs to be demoed? If so, what is the depth and size of the existing footings?
A: Existing footings on right side (grid f) are at different spacing, roof beams are now longer, so original footings likely do not check structurally. These are all new footings on grid f.

Footings on grid 1 are existing, and can likely remain, but general contractor and SER need to verify size and condition on site as actual size is unknown. Likely 36" square x 10" thick. Provide unit price to replace with new f4.0 footing.

43. **Q:** The drawings call for us to provide a price if existing headers are not the correct size. Where do we provide this price?

A: This is unclear. Include it in lump sum as contingency. Existing headers were hidden behind finishes. Need to verify size on site. If headers are undersized (2-2x6 for example), provide price for 2-2x10 per drawings.

44. **Q:** The drawings call for a unit price for new face mounted hangers. Where do we provide this?

A: This is unclear. Include in lump sum as contingency.

45. **Q:** For the visitor's center, do the new 2x10 rafters along column line 1 tie into the new dropped glulam or do they run up past the new glulam's? The drawings do not depict where the new 2x10 rafters start and stop.

A: New 2x10 rafters are up above existing framing and are continuous to support overhang. Glulam beams on grid 1 are dropped. Rafters may be spliced at grid 2 if needed but would prefer to be as long as possible to support back-span.

46. **Q:** There is a note 13 on Sheet VC.A2.0, however I do not see this called out on the drawing anywhere. Please verify if this is needed and where.

A: This is mislabeled as 14. This is the dashed wall north of the building adjacent to the HVAC equipment.

47. **Q:** Is the intent for the new roof slope along the south porch of the building to remove the existing tongue and groove decking to make the new tie-ins of the glulams and rafters? If so, will the existing tongue and groove need to be replaced, or can we replace it with plywood sheathing since it will have a new ceiling on the underside of it?

- Can more detail be provided for the new roof framing at the south porch tie-in, including more detail as to what needs to be demoed?

A: The existing roof at south porch is lower slope, with t&g decking to remain. Overbuild 2x10's on top of existing framing. General Contractor and SER can coordinate this on site if there are more efficient ways to frame this area, but intent is for existing overhang to get longer, thus roof needs to be higher to maintain consistent fascia elevation.

48. **Q:** The North elevation on Sheet VC.A3.6 shows an HM door. I do not see this anywhere else on the drawings. Please confirm/verify?

A: This has been omitted.

49. **Q:** The East elevation on Sheet VC.A3.6 shows door number 15, however Drawing VC.A2.1 calls this door out as 14. Which is correct?

A: 14 is correct.

50. **Q:** Can more door elevations and details be provided for the interior doors. There is a lot left up for imagination regarding these “Custom doors”.
- Are the wood doors solid or do they have view lites?
- A:** Reference door schedule on VC.A2.1 – this schedule indicates core, frame, face, finish, and hardware. The updated Sheet VC.A2.1 is included as an attachment to this Addendum.
51. **Q:** Detail 07 on Sheet VC.A3.5 calls door number 14 an HM door, however the door schedule calls out door 14 as an Aluminum door. Which is correct?
- A:** Detail 07 should call out the door as 13.
52. **Q:** Drawing VC.A3.3 calls out 621.1, however I do not see this in the material specifications list. What does 621.1 stand for?
- A:** Unable to locate this reference, however this is likely mislabeled. There is no 620.1.
53. **Q:** The finish schedule shows existing polished concrete in several of the rooms. In the notes section it states all concrete is to have ground exposed aggregate. Are we repolishing these floors or leaving what’s existing?
- A:** Grinding and repolishing all exposed slabs (new, old, patch) to large, exposed aggregate finish.
54. **Q:** The finish schedule appears to be cut off, and some information cannot be made out. Can this be corrected?
- A:** Reissued VC.A2.1 is included as an attachment to this Addendum.
55. **Q:** What type of ceiling is the “dropped ceiling” shown on VC.A2.2? There appears to be 3 different shades but no reference to what type each is.
- A:** Shading indicates heights only – reference finish schedule or details.
56. **Q:** The visitor’s center drawings call for new sheet metal roof, as well as standing seam metal roof. Typically, sheet metal roof is screw down. Please verify which is correct?
- A:** Standing Seam is correct.
57. **Q:** Are we replacing the entire existing metal roof on the visitor’s center? The roof plan only calls out the new roof slope but does not call for us to demo the existing and replacement.
- If we are replacing the roof, are we doing anything to the existing underlayment?
 - The Architectural drawings state to “reference the existing drawings” in several places. Where are the existing drawings?
- A:** Replacing roof and underlayment. Incomplete as-built set is included in this addendum for reference.
58. **Q:** Are we demoing all the fascia on the visitor’s center or only the fascia between the number “2” call outs?
- A:** Full replacement.

59. **Q:** The drawings call for us to patch the existing wood siding on the visitor's center. What is the species and dimensions of the existing wood siding we are to match?
A: Unknown species. This will require investigation by selected Contractor during demolition. Dimension can be determined through site visit.
60. **Q:** The Plumbing drawings call for us to demo part of the floor slab in the men's bathroom. The Architectural drawings call for the existing floor tile to stay in place. Can you explain how we do that?
A: Good catch, we will do an exposed aggregate polishing in both 114 womens and 113 mens and remove the tile scope.
 - ***Note to contractors** – this will remove tile scope from project completely, and no reissue of the specification will be necessary. *
61. **Q:** Can you confirm that the owner will cover any fees associated with the utility companies?
A: Bidders shall include the noted allowance of \$30,000 for use toward permitting and inspection fees and the noted allowance of \$50,000 for fiber optic and telecommunication improvements on-site.
62. **Q:** Will the owner provide their own security contractor for access controls and cameras?
A: Bidders shall include the noted allowance of \$145,000 for installation of security equipment on site. This will be coordinated with the County following award of the project contract to the selected bidder and in accordance with the security plans developed by Wake County's security consultant.

Attachments included for reference in this Addendum:

- a. Project Manual
 - Section 012200 – Unit Prices
 - i. Updated list of Unit Prices.
 - Section 012300 – Alternates
 - i. Updated list of Alternates.
 - Section 083323 – Overhead Coiling Doors
 - i. Updated for manual operated doors.
 - Section 129300 – Site Furnishings
 - i. Updated site furnishings quantities.
- b. Bid Proposal Form
 - Updated listing of addendums to be acknowledged as read.
 - Updated list of Unit Prices.
 - Updated list of Alternates
- c. Drawings
 - Sheet C2.2 – Demolition Plan Enlargement – Bluebird Shelter
 - i. Updated demolition extents of existing water line at the Bluebird Shelter.
 - Sheet C3.6 – Site Details
 - i. Updated outdoor drinking fountain model.
 - Sheet C4.1 – Fire Access and Hose Lay Plan
 - i. Updated water service to drinking fountain at Bluebird Shelter

- Sheet VC.A2.1 – Visitor’s Center Floor Plan and Schedules
- d. Reference Material – For reference only.
 - Farm History Center As-Built drawings.
 - i. ***Note – these are provided for reference only and shall not be considered an official part of the contract documents for this project.***

SECTION 012200 – UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements:
 - 1. Section 012100 "Allowances" for procedures for using unit prices to adjust quantity allowances.
 - 2. Section 012600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
 - 3. Section 014000 "Quality Requirements" for field testing by an independent testing agency.

1.3 DEFINITIONS

- A. Unit price is an amount incorporated into the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the Part 3 "Schedule of Unit Prices" Article contain requirements for materials described under each unit price.

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. Unit Price No. 1: Removal of unsatisfactory soil, debris, and plastic/elastic soil and replacement with satisfactory soil material from off-site.
 - 1. Description: Unsatisfactory soil excavation of highly plastic clays and clayey silt soils (CH, MH) and coarse rock fragments and disposal off-site and replacement with imported Structural Fill, as required, in accordance with Section 312000 "Earth Moving."
 - 2. Unit of Measurement: cubic yard (CY) of soil excavated and replaced.
- B. Unit Price No. 2: Removal of unsatisfactory soil, debris, and plastic/elastic soil and replacement with satisfactory structural soil material on-site.
 - 1. Description: Unsatisfactory soil excavation of highly plastic clays and clayey silt soils (CH, MH) and coarse rock fragments and disposal off-site and replacement with on-site Structural Fill, as required, in accordance with Section 312000 "Earth Moving."
 - 2. Unit of Measurement: cubic yard (CY) of soil excavated and replaced.
- C. Unit Price No. 3: Mass rock removal and replacement with satisfactory soil material.
 - 1. Description: Classified mass rock excavation and disposal off-site and replacement with satisfactory soil material, as required, in accordance with Section 312000 "Earth Moving."
 - 2. Unit of Measurement: cubic yard (CY) of rock excavated and replaced.
- D. Unit Price No. 4: Trench rock removal and replacement with satisfactory soil material.
 - 1. Description: Classified trench rock excavation and disposal off-site and replacement with satisfactory soil material as required, in accordance with Section 312000 "Earth Moving."
 - 2. Unit of Measurement: cubic yard (CY) of rock excavated and replaced.
- E. Unit Price No. 5: Mirafi 500X geotextile, or approved equal.
 - 1. Description: Mirafi 500X geotextile fabric, or approved equal, for use during construction, in accordance with the Geotech report.
 - 2. Unit of Measurement: square yard (SY) of geotextile fabric used.
- F. Unit Price No. 6: Landscape Boulders
 - 1. Description: Furnishing and installation of decorative stone boulders around drain inlet at Bluebird Shelter.
 - 2. Unit of Measurement: Each (EA) Boulder
- G. Unit Price No. 7: Canopy Tree
 - 1. Description: 2.5" cal. B&B deciduous canopy tree to include topsoil, mulch and backfill material. Species shall be selected from the range of proposed canopy trees listed on the Plant List.
 - 2. Unit of Measurement: Each (EA) Tree
- H. Unit Price No. 8: Asphalt Surface Standard Duty, 3" S9.5B
 - 1. Description: Materials and Installation of 3" Standard Duty Asphalt Surface.
 - 2. Unit of Measurement: square yard (SY) of asphalt
- I. Unit Price No. 9: Aggregate Base Course, 6" – Standard Duty Asphalt

1. Description: Materials and Installation of 6" Aggregate Base Course layer under all Standard Duty Asphalt Surface.
 2. Unit of Measurement: square yard (SY) of aggregate base course
- J. Unit Price No. 10: Asphalt Surface Heavy Duty, 2" S9.5B
1. Description: Materials and Installation of 2" Heavy Duty Asphalt Surface.
 2. Unit of Measurement: square yard (SY) of asphalt
- K. Unit Price No. 11: Asphalt Binder Heavy Duty, 4" I19.0B
1. Description: Materials and Installation of 4" thick Heavy Duty Asphalt Binder.
 2. Unit of Measurement: square yard (SY) of heavy duty asphalt binder
- L. Unit Price No. 12: Aggregate Base Course, 8" – Heavy Duty Asphalt
1. Description: Materials and Installation of 8" thick layer of Aggregate Base Course under all Heavy Duty Asphalt Surfaces.
 2. Unit of Measurement: square yard (SY) of aggregate base course
- M. Unit Price No. 13: 4" Concrete Sidewalk
1. Description: Materials and Installation of 4" thick Concrete Sidewalk.
 2. Unit of Measurement: square yard (SY) of concrete
- N. Unit Price No. 14: Heavy Duty Concrete, 6" Depth
1. Description: Materials and Installation of 6" thick Heavy Duty Concrete.
 2. Unit of Measurement: square yard (SY) of concrete
- O. Unit Price No. 15: Aggregate Base Course, 6" – Heavy Duty Concrete
1. Description: Materials and Installation of 6" thick layer of Aggregate Base Course under all heavy-duty concrete surfaces.
 2. Unit of Measurement: square yard (SY) of aggregate base course
- P. Unit Price No. 16: ABC Gravel Maintenance Yard
1. Description: Materials and Installation of ABC Gravel surface in Maintenance Yard.
 2. Unit of Measurement: cubic yard (CY) of ABC Gravel
- Q. Unit Price No. 17: Gravel Pave 2 – Maintenance Drive
1. Description: Materials and Installation of Gravel Pave 2 reinforcement in the Maintenance Driveway.
 2. Unit of Measurement: square yard (SY) of Gravel Pave 2
- R. Unit Price No. 18: Exposed Aggregate Concrete
1. Description: Materials and Installation of Exposed Aggregate Concrete.
 2. Unit of Measurement: square yard (SY) of exposed aggregate concrete
- S. Unit Price No. 19: Clay Brick Paver Sidewalk
1. Description: Materials and Installation of Clay Brick Paver Sidewalk.
 2. Unit of Measurement: square yard (SY) of pavers
- T. Unit Price No. 20: Mobilization for Removal of Mass Rock or Trench Rock
1. Description: Mobilization included for the removal of mass rock or trench rock across the site.
 2. Unit of Measurement: lump sum (LS)

- U. Unit Price No. 21: New Footing at Visitor's Center
 - 1. Description: Materials and Installation of a new footing installed at the same elevation and of the same size as the existing footing, reinforced with two (2) #5 bars each way.
 - 2. Unit of Measurement: cubic yard (CY) of footing

- V. Unit Price No. 22: Existing Wood Members at Visitor's Center
 - 1. Description: Materials and Installation of wood members at the Visitor's Center.
 - 2. Unit Price: each (EA) wood member

END OF SECTION 012200

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
- B. Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.
- C. Execute accepted alternates under the same conditions as other Work of the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Alternate No. 1: 8' Wide Decomposed Granite Path, 2 Benches, and 1 Trash Receptacle at Pecan Grove.
 - 1. Base Bid: The base bid condition shall not include any work associated with the 8' wide decomposed granite path, 2 benches, and 1 trash receptacle at the Pecan Grove. This area shall stay as existing.
 - 2. Add Alternate: Include the 8' wide decomposed granite path (approximately 875 linear feet), 2 benches, and 1 trash receptacle through the existing Pecan Grove as shown on Sheets C3.0 and C7.0.
- B. Alternate No. 2: Driveway Entrance at Carya Drive
 - 1. Base Bid: The base bid condition shall not include any work associated with the concrete roll curb, heavy-duty concrete apron, and asphalt driveway repair shown in

- Inset C on Sheet C3.3 and C7.3 at driveway entrance from Carya Drive. This area shall stay as existing.
2. Add Alternate: Include the concrete roll curb, heavy-duty concrete apron, and asphalt driveway repair shown in Inset C on Sheet C3.3 and C7.3 at driveway entrance from Carya Drive.
- C. Alternate No. 3: Sidewalk and Gate to Poole Road
1. Base Bid: The base bid condition shall not include any work associated with the concrete sidewalk, brick sidewalk, and wood access gate shown on Sheet C3.0 and C7.0 connecting the existing brick sidewalk on-site to the existing concrete sidewalk inside the right-of-way of Poole Road. This area shall stay as existing.
 2. Add Alternate: Include the concrete sidewalk (approximately 20 linear feet), brick sidewalk (approximately 290 linear feet), and wood access gate shown on Sheet C3.0 and C7.0 connecting the existing brick sidewalk on-site to the existing concrete sidewalk inside the right-of-way of Poole Road.
- D. Alternate No. 4: Kid's Corner Millwork at Visitor's Center
1. Base Bid: The base bid condition shall not include any work associated with the millwork in the Kid's Corner at the Visitor's Center.
 2. Add Alternate: Include all millwork shown in the Kid's Corner at the Visitor's Center.
- E. Alternate No. 5: Owner Preferred Door Hardware
1. Base Bid: The base bid condition shall not include any work associated with the Owner preferred door hardware.
 2. Add Alternate: Provide quote for Owner Preferred Door Hardware per Section 080671 – Door Hardware Schedule.

END OF SECTION 012300

SECTION 083323 - OVERHEAD COILING DOORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Service doors.
2. Insulated service doors.

B. Related Requirements:

1. Section 055000 "Metal Fabrications" for miscellaneous steel supports, door-opening framing, corner guards, and bollards.
2. Section 087100 "Door Hardware" for lock assembly requirements.

1.2 ACTION SUBMITTALS

A. Product Data: For each type and size of overhead coiling door and accessory.

1. Include construction details, material descriptions, dimensions of individual components, profiles for slats, and finishes.
2. Include rated capacities, operating characteristics, electrical characteristics, and furnished accessories.
3. Include description of automatic-closing device and testing and resetting instructions.

B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.

1. Include plans, elevations, sections, and mounting details.
2. Include details of equipment assemblies, and indicate dimensions, required clearances, method of field assembly, components, and location and size of each field connection.
3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.
4. For exterior components, include details of provisions for assembly expansion and contraction and for excluding and draining moisture to the exterior.
5. Show locations of controls, locking devices, detectors or replaceable fusible links, and other accessories.

C. Samples for Initial Selection: Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.

1. Include similar Samples of accessories involving color selection.

D. Samples for Verification: For each type of exposed finish on the following components, in manufacturer's standard sizes:

1. Curtain slats .
2. Bottom bar .
3. Guides.
4. Brackets.
5. Hood.
6. Locking device(s).
7. Include similar Samples of accessories involving color selection.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and testing and inspecting agency .
- B. Sample Warranty: For special warranty.

1.4 CLOSEOUT SUBMITTALS

- A. Special warranty.
- B. Maintenance Data: For overhead coiling doors to include in maintenance manuals.
- C. Record Documents: For fire-rated doors, list of door numbers and applicable room name and number to which door accesses.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.
 1. Maintenance Proximity: Not more than two hours' normal travel time from Installer's place of business to Project site.

1.6 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of doors that fail in materials or workmanship within specified warranty period.
 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain overhead coiling doors from single source from single manufacturer.
 - 1. Obtain operators and controls from overhead coiling-door manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" .
- B. Structural Performance, Exterior Doors: Capable of withstanding the following design wind loads:
 - 1. Design Wind Load: As indicated on Drawings .
 - 2. Testing: According to ASTM E330/E330M .
 - 3. Deflection Limits: Design overhead coiling doors to withstand design wind load without evidencing permanent deformation or disengagement of door components.
 - 4. Operability under Wind Load: Design overhead coiling doors to remain operable under design wind load, acting inward and outward.
- C. Windborne-Debris Impact Resistance: Provide impact-protective overhead coiling doors that pass ASTM E1886 missile-impact and cyclic-pressure tests according to ASTM E1996 for Wind Zone 3 for basic protection.
- D. Seismic Performance: Overhead coiling doors are to withstand the effects of earthquake motions determined according to ASCE/SEI 7 .

2.3 DOOR ASSEMBLY

- A. Overhead Coiling Door: Insulated service overhead coiling door formed with curtain of interlocking metal slats.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following :
 - a. ACME Rolling Doors
 - b. Advanced Door Technologies
 - c. Alpine Overhead Doors, Inc
 - d. Alumatec Pacific Products
 - e. Amarr Company
 - f. ASTA America; Janus International Group

- g. C.H.I. Overhead Doors, Inc.
 - h. City Gates USA
 - i. Clopay Building Products
 - j. Cookson; a CornellCookson company
 - k. Cornell; a CornellCookson company
 - l. Dynamic Closures Corporation
 - m. Hormann High Performance Doors
 - n. Lawrence Roll-Up Doors, Inc.
 - o. McKeon Door Company
 - p. Metro Door LLC
 - q. Overhead Door Corporation
 - r. Raynor Garage Doors
 - s. Southwestern Rolling Steel Door Co
 - t. Wayne Dalton; a division of Overhead Door Corporation
 - u. Windsor Door
- B. Operation Cycles: Door components and operators capable of operating for not less than 50,000 cycles. One operation cycle is complete when a door is opened from the closed position to the fully open position and returned to the closed position.
- 1. Include tamperproof cycle counter.
- C. Air Infiltration: Maximum rate of 1.0 cfm/sq. ft. at **15 and 25 mph** when tested according to ASTM E283 .
- D. STC Rating: 26 .
- E. Insulated Door Curtain R-Value: 4.5 deg F x h x sq. ft./Btu .
- F. Insulated Door Assembly U-Factor: 0.90 Btu/deg F x h x sq. ft. .
- G. Door Curtain Material: Aluminum .
- H. Door Curtain Slats: Curved profile slats of 1-7/8-inch center-to-center height.
- 1. Insulated-Slat Interior Facing: Metal .
- I. Bottom Bar: Two angles, each not less than 1-1/2 by 1-1/2 by 1/8 inch thick ; fabricated from hot-dip galvanized steel and finished to match door .
- J. Curtain Jamb Guides: Galvanized steel with exposed finish matching curtain slats.
- K. Hood: Match curtain material and finish .
- 1. Shape: Round .
 - 2. Mounting: Face of wall .
- L. Locking Devices: Equip door with locking device assembly .

1. Locking Device Assembly: locking bars, operable from inside and outside with cylinders .
- M. Manual Door Operator: Chain-hoist operator .
1. Provide operator with manufacturer's standard removable operating arm.
- N. Curtain Accessories: Equip door with weatherseals .
- O. Door Finish:
1. Aluminum Finish: Anodized color as selected by Architect from full range of industry colors and color densities .
 2. Baked-Enamel or Powder-Coated Finish: Color as selected by Architect from manufacturer's full range .
 3. Interior Curtain-Slat Facing: Match finish of exterior curtain-slat face .

2.4 DOOR CURTAIN MATERIALS AND CONSTRUCTION

- A. Door Curtains: Fabricate overhead coiling-door curtain of interlocking metal slats, designed to withstand wind loading indicated, in a continuous length for width of door without splices. Unless otherwise indicated, provide slats of thickness and mechanical properties recommended by door manufacturer for performance, size, and type of door indicated, and as follows:
1. Aluminum Door Curtain Slats: **ASTM B209** sheet or **ASTM B221** extrusions, alloy and temper standard with manufacturer for type of use and finish indicated; thickness of **0.050 inch**; and as required.
 2. Insulation: Fill slats for insulated doors with manufacturer's standard thermal insulation complying with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, according to ASTM E84 or UL 723. Enclose insulation completely within slat faces.
 3. Metal Interior Curtain-Slat Facing: Match metal of exterior curtain-slat face, with minimum aluminum thickness of 0.032 inch .
- B. Curtain Jamb Guides: Manufacturer's standard angles or channels and angles of same material and finish as curtain slats unless otherwise indicated, with sufficient depth and strength to retain curtain, to allow curtain to operate smoothly, and to withstand loading. Slot bolt holes for guide adjustment. Provide removable stops on guides to prevent overtravel of curtain , and a continuous bar for holding windlocks .

2.5 HOODS

- A. General: Form sheet metal hood to entirely enclose coiled curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting that projects beyond wall face. Equip hood with

intermediate support brackets as required to prevent sagging.

1. Galvanized Steel: Nominal **0.028-inch-** thick, hot-dip galvanized-steel sheet with **G90** zinc coating, complying with ASTM A653/A653M.
 2. Stainless Steel: **0.025-inch-** thick, stainless steel sheet, Type 304, complying with ASTM A240/A240M or ASTM A666.
 3. Aluminum: **0.040-inch-** thick aluminum sheet complying with **ASTM B209**, of alloy and temper recommended by manufacturer and finisher for type of use and finish indicated.
- B. Removable Metal Soffit: Formed or extruded from same metal and with same finish as curtain if hood is mounted above ceiling unless otherwise indicated.

2.6 LOCKING DEVICES

- A. Slide Bolt: Fabricate with side-locking bolts to engage through slots in tracks for locking by padlock, located on both left and right jamb sides, operable from coil side.
- B. Locking Device Assembly: Fabricate with cylinder lock, spring-loaded dead bolt, operating handle, cam plate, and adjustable locking bars to engage through slots in tracks.
1. Lock Cylinders: As specified in Section 087100 "Door Hardware" and keyed to building keying system .
 2. Keys: Three for each cylinder.
- C. Chain Lock Keeper: Suitable for padlock.

2.7 CURTAIN ACCESSORIES

- A. Weatherseals for Exterior Doors: Equip each exterior door with weather-stripping gaskets fitted to entire exterior perimeter of door for a weather-resistant installation unless otherwise indicated.
1. At door head, use **1/8-inch-** thick, replaceable, continuous-sheet baffle secured to inside of hood or field-installed on the header.
 2. At door jambs, use replaceable, adjustable, continuous, nylon brushes .
- B. Astragal for Interior Doors: Equip each door bottom bar with a replaceable, adjustable, continuous, compressible gasket of flexible vinyl, rubber, or neoprene as a cushion bumper.
- C. Push/Pull Handles: Equip each push-up-operated or emergency-operated door with lifting handles on each side of door, finished to match door.
- D. Pull-Down Strap: Provide pull-down straps for doors more than **84 inches** high.
- E. Pole Hooks: Provide pole hooks and poles for doors more than **84 inches** high.

2.8 COUNTERBALANCE MECHANISM

- A. General: Counterbalance doors by means of manufacturer's standard mechanism with an adjustable-tension, steel helical torsion spring mounted around a steel shaft and contained in a spring barrel connected to top of curtain with barrel rings. Use grease-sealed bearings or self-lubricating graphite bearings for rotating members.
- B. Counterbalance Barrel: Fabricate spring barrel of manufacturer's standard hot-formed, structural-quality, seamless carbon-steel pipe, of sufficient diameter and wall thickness to support rolled-up curtain without distortion of slats and to limit barrel deflection to not more than **0.03 in./ft.** of span under full load.
- C. Counterbalance Spring: One or more oil-tempered, heat-treated steel helical torsion springs. Size springs to counterbalance weight of curtain, with uniform adjustment accessible from outside barrel. Secure ends of springs to barrel and shaft with cast-steel barrel plugs.
 - 1. Fire-Rated Doors: Equip with auxiliary counterbalance spring and prevent tension release from main counterbalance spring when automatic-closing device operates.
- D. Torsion Rod for Counterbalance Shaft: Fabricate of manufacturer's standard cold-rolled steel, sized to hold fixed spring ends and carry torsional load.
- E. Brackets: Manufacturer's standard mounting brackets of either cast iron or cold-rolled steel plate.

2.9 MANUAL DOOR OPERATORS

- A. General: Equip door with manual door operator by door manufacturer.
- B. Chain-Hoist Operator: Consisting of endless steel hand chain, chain-pocket wheel and guard, and gear-reduction unit with a maximum 25-lbf force for door operation. Provide alloy-steel hand chain with chain holder secured to operator guide.

2.10 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM/NOMMA 500 for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.11 ALUMINUM FINISHES

- A. Mill Finish: Manufacturer's standard.

- B. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.
- C. Baked-Enamel or Powder-Coat Finish: AAMA 2603. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates areas and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.
- B. Examine locations of electrical connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Install overhead coiling doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.
- B. Install overhead coiling doors, hoods, controls, and operators at the mounting locations indicated for each door.
- C. Accessibility: Install overhead coiling doors, switches, and controls along accessible routes in compliance with the accessibility standard.

3.3 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections and to furnish reports to Architect.
- B. Perform the following tests and inspections with the assistance of a factory-authorized service representative :
 - 1. Test door release, closing, and alarm operations when activated by smoke detector or building's fire-alarm system. Test manual operation of closed door. Reset door-closing mechanism after successful test.
- C. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.
- D. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.

3.4 ADJUSTING

- A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
 - 1. Adjust exterior doors and components to be weather resistant.
- B. Lubricate bearings and sliding parts as recommended by manufacturer.
- C. Adjust seals to provide tight fit around entire perimeter.

3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain overhead coiling doors.

END OF SECTION 083323

SECTION 129300 – SITE FURNISHINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Benches.
 - 2. Bicycle racks.
 - 3. Trash receptacles.
- B. Related Sections include the following:
 - 1. Division 3 Section "Cast-in-Place Concrete" for concrete footings.
 - 2. Division 31 Section "Earth Moving" for excavation for installation of concrete footings.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Initial Selection: For units with factory-applied color finishes.
- C. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
 - 1. Size: Not less than 6-inch long linear components and 4-inch square sheet components.
- D. Product Schedule: For site furnishings. Use same designations indicated on Drawings.
- E. Material Certificates: For site furnishings, signed by manufacturers.
 - 1. Wood Preservative Treatment: Include certification by treating plant stating type of preservative solution and pressure process used, net amount of preservative retained, and compliance with applicable standards.
 - 2. Sustainably Harvested Wood: Include certification by manufacturer and from sources that participate in sustained yield programs.
- F. Maintenance Data: For site furnishings to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of site furnishing(s) through one source from a single manufacturer.

PART 2 - PRODUCTS

2.1 BENCHES

- A. Basis-of-Design Product: Subject to compliance with requirements, provide ~~two (2)~~ **three (3)** six foot (6') backless benches and ~~two (2)~~ **three (3)** six foot (6') backed benches. Backless benches shall be the Harpo Backless Bench with Wood Slats by Landscape Forms or approved equal. Backed benches shall be the Generation 50 Backed Bench with Looped Arm Rest by Landscape Forms or approved equal.

2.2 ACCESSIBLE PICNIC TABLE

- A. Basis-of-Design Product: Subject to compliance with requirements, provide ~~one (1)~~ **twenty (20)** six foot (6') accessible picnic table. Table shall be the WPTS Square Frame Accessible Picnic Table from Pilot Rock or approved equal.

2.3 BIKE RACK

- A. Basis-of-Design Product: Subject to compliance with requirements, provide ~~one (1)~~ **six (6)** bike racks. Bike rack shall be the Single Loop Bike Rack by Belson Outdoors or approved equal. Bike rack shall be powder coated black.

2.4 LITTER RECEPTACLE

- A. Basis-of-Design Product: Subject to compliance with requirements, provide ~~two (2)~~ **six (6)** litter receptacles and two (2) recycling receptacles. Litter and recycling receptacle shall be the Generation 50 Litter Receptacle by Landscape Forms or approved equal. Litter receptacle shall be made of ash wood with matte black powder coated front and back panel. Recycling receptacle shall be made of ash wood with blue powder coated front and back panel.

2.5 OUTDOOR DRINKING FOUNTAIN

- A. Basis-of-Design Product: Subject to compliance with requirements, provide one (1) outdoor drinking fountain. Drinking fountain shall be the ~~ADA Vandal-Resistant Outdoor Steel Pedestal Fountain with Bottle Filler Attachment (3377FR)~~ **ADA Vandal-Resistant Outdoor Stainless Steel Bottle Filler and Drinking Fountain (3612FR)** or approved equal. Drinking fountain shall be freeze resistant and black in color.

2.6 FABRICATION

- A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.

- B. Welded Connections: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. At exposed connections, finish surfaces smooth and blended so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.
- C. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.
- D. Preservative-Treated Wood Components: Complete fabrication of treated items before treatment if possible. If cut after treatment, apply field treatment complying with AWPA M4 to cut surfaces.
- E. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.
- F. Factory Assembly: Assemble components in the factory to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

2.7 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.8 ALUMINUM FINISHES

- A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.9 STEEL AND GALVANIZED STEEL FINISHES

- A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.
- B. PVC Finish: Manufacturer's standard, UV-light stabilized, mold-resistant, slip-resistant, matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added; complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness.

2.10 IRON FINISHES

- A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.11 STAINLESS-STEEL FINISHES

- A. Remove tool and die marks and stretch lines or blend into finish.
- B. Grind and polish surfaces to produce uniform, directionally textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance.

1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.
- B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.
- C. Install site furnishings level, plumb, true, and securely anchored at locations indicated on Drawings and manufactures recommendations.

3.3 CLEANING

- A. After completing site furnishing installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

END OF SECTION 129300

Historic Oak View County Park

Project No. RFB #26-001

BID PROPOSAL FORM

(USE THIS FORM ONLY. Bids submitted on anything other than the form(s) provided may be considered non-responsive and subject to rejection)

SINGLE PRIME GENERAL CONSTRUCTION WORK
FORMAL CONTRACT

BIDDERS NAME

_____ License Number: _____

BASE BID PROPOSAL

The undersigned, as Bidder, hereby declares that the only person or persons interested in this Proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Proposal or in the Contract to be entered into; that this Proposal is made without connection with any other person, company or parties making a Bid or Proposal; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the specifications for the work and the Contract Documents relative thereto, including addenda, if any, and has read all special provisions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees if this Proposal is accepted to contract with the County of Wake with a definite understanding that no money will be allowed for extra work except as set forth in the General Conditions and Contract Documents, for the sum of:

Base Bid _____ Dollars (\$_____).

SUBCONTRACTOR LISTING

PLUMBING CONTRACTOR

Name: _____ License Number: _____

\$ _____

HVAC CONTRACTOR

Name: _____ License Number: _____

\$ _____

ELECTRICAL CONTRACTOR

Name: _____ License Number: _____

\$ _____

(OTHER CONTRACTOR)

Name: _____ License Number: _____

\$ _____

(OTHER CONTRACTOR)

Name: _____ License Number: _____

\$ _____

(OTHER CONTRACTOR)

Name: _____ License Number: _____

\$ _____

(OTHER CONTRACTOR)

Name: _____ License Number: _____

\$ _____

ALTERNATES

Should any of the alternates as described in the specifications be accepted, the amount written below shall be the amount to "add to" of "deduct from" the Base Bid. If to be "deducted from" Base Bid, put minus sign (-) in parentheses at head of alternate and plus sign (+) in parentheses if to be added. Refer to Section 012300 for description of alternates.

Add Alternate No. 1 (+) 8' Wide Decomposed Granite Path, 2 Benches, and 1 Trash Receptacle at Pecan Grove Dollars (\$ _____)

Add Alternate No. 2 (+) Driveway Entrance at Carya Drive Dollars (\$ _____)

Add Alternate No. 3 (+) Sidewalk and Gate to Poole Road Dollars (\$ _____)

Add Alternate No. 4 (+) Kid's Corner Millwork at Visitor's Center Dollars (\$ _____)

Add Alternate No. 5 (+) Owner Preferred Door Hardware Dollars (\$ _____)

UNIT PRICES

Unit prices are complete for labor, equipment, material, overhead and profit. Base bid includes the stipulated allowance quantity of each item. Unused amount will be credited to the Owner by change order at the end of the project.

Description	Unit Price	Unit Measure	Allowance Units
No. 1: Removal of unsatisfactory soil, debris, and plastic/elastic soil and replacement with satisfactory soil material from off-site.		CY	100
No. 2: Removal of unsatisfactory soil, debris, and plastic/elastic soil and replacement with satisfactory structural soil material on-site.		CY	100
No. 3: Mass rock removal and replacement with satisfactory soil material.		CY	25
No. 4: Trench rock removal and replacement with satisfactory soil material.		CY	50
No. 5: Mirafi 500X geotextile, or approved equal.		SY	200
No. 6: Landscape Boulders		EA	N/A
No. 7: Canopy Tree		EA	N/A
No. 8: Asphalt Surface Standard Duty, 3" S9.5B		SY	N/A
No. 9: Aggregate Base Course, 6" – Standard Duty Asphalt		SY	N/A
No. 10: Asphalt Surface Heavy Duty, 2" S9.5B		SY	N/A
No. 11: Asphalt Binder Heavy Duty, 4" I19.0B		SY	N/A
No. 12: Aggregate Base Course, 8" – Heavy Duty		SY	N/A

Asphalt			
No. 13: 4" Concrete Sidewalk		SY	N/A
No. 14: Heavy Duty Concrete, 6" Depth		SY	N/A
No. 15: Aggregate Base Course, 6" – Heavy Duty Concrete		SY	N/A
No. 16: ABC Gravel Maintenance Yard		CY	N/A
No. 17: Gravel Pave 2 – Maintenance Drive		SY	N/A
No. 18: Exposed Aggregate Concrete		SY	N/A
No. 19: Clay Brick Paver Sidewalk		SY	N/A
No. 20: Mobilization for Removal of Mass Rock or Trench Rock		LS	1
No. 21: New Footing at Visitor's Center		CY	N/A
No. 22: Existing Wood Members at Visitor's Center		EA	N/A

ALLOWANCES

Allowances indicated shall be included in the Total Base Bid Amount. Refer to Section 012100 for description of allowances.

- A. Allowance No. 1: Include an allowance of 100 CY for removal of unsatisfactory soil, debris, and plastic/elastic soil and replacement with satisfactory soil material from off-site
\$ _____
- B. Allowance No. 2: Include an allowance of 100 CY for removal of unsatisfactory soil, debris, and plastic/elastic soil and replacement with satisfactory structural soil material on-site
\$ _____
- C. Allowance No. 3: Include an allowance of 25 CY of mass rock removal and replacement with satisfactory soil material \$ _____
- D. Allowance No. 4: Include 50 CY of trench rock removal and replacement with satisfactory soil material. \$ _____
- E. Allowance No. 5: Include 200 SY of Mirafi 500X geotextile, or approved equal. \$ _____
- F. Allowance No. 6: Include an allowance of \$100,000.00 for use according to the Owner's written instructions.
- G. Allowance No. 7: Include an allowance of \$30,000 for use toward permitting and inspection fees.
- H. Allowance No. 8: Include an allowance of \$145,000 for installation of security equipment on-site.
- I. Allowance No. 9: Include an allowance of \$50,000 for fiber optic and telecommunication improvements on-site.

MINORITY BUSINESS PARTICIPATION REQUIREMENTS; 143.128.2.c

Provide with the bid - Under GS 143-128.2(c) the bidder shall identify and include **with the bid**, **Wake County Form MBE-1 Identity of Minority Business Participation**, the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. **All bidders must submit, with the bid, Wake County Form MBE-1 Identity of Minority Business Participation Form even if there is zero MBE participation.**

Also include with the bid a list of the good faith efforts made to solicit minority participation in the bid effort, **Wake County Form MBE-2 Listing of the Good Faith Effort**.

NOTE: A contractor that performs all of the work with its own workforce may submit **Wake County Form MBE-3-Intent to Perform Contract with Own Workforce**, to that effect in lieu of **Wake County Form MBE-2-Listing of the Good Faith Effort**.

After the bid opening - The Owner will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent lowest responsible, responsive bidder, the bidder must then file within 72 hours of the notification **Wake County Form MBE-4**. It includes that portion of the Work to be Performed by Minority Business. Also included is a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and **Wake County Form MBE-5** is not necessary,

OR

If less than the 10% goal, **Wake County Form MBE-5** documenting all good faith efforts to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the project.

Note: Bidders must always submit **with their bid** the Identification of Minority Business Participation Form listing all MBE contractors, vendors, and suppliers that will be used. If there is no MBE participation, then enter none or zero on the form. **Wake County Form MBE-2** or **Wake County Form MBE-3** as applicable must also be submitted with the bid. Failure to submit a required affidavit or form with the bid or within the time required may be grounds for rejection of the bid.

Attach to Bid Form

Wake County – Form MBE-2 (2002)

Listing of the Good Faith Effort

Affidavit of _____
(Name of Bidder)

I have made a good faith effort to comply under the following areas checked:

Bidders must earn at least 50 points from the good faith efforts listed for their bid to be considered responsive. (1 NC Administrative Code 30 I.0101)

- 1 – (10 pts)** Contacted minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor, or available on State or local government maintained lists, at least 10 days before the bid date and notified them of the nature and scope of the work to be performed.
- 2. -(10 pts)** Made the construction plans, specifications and requirements available for review by prospective minority businesses, or providing these documents to them at least 10 days before the bids are due.
- 3 - (15 pts)** Broken down or combined elements of work into economically feasible units to facilitate minority participation.
- 4 - (10 pts)** Worked with minority trade, community, or contractor organizations identified by the Office of Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses.
- 5 - (10 pts)** Attended prebid meetings scheduled by the public owner.
- 6 - (20 pts)** Provided assistance in getting required bonding or insurance or provided alternatives to bonding or insurance for subcontractors.
- 7 - (15 pts)** Negotiated in good faith with interested minority businesses and did not reject them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing.
- 8 - (25 pts)** Provided assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required. Assisted minority businesses in obtaining the same unit pricing with the bidder's suppliers in order to help minority businesses in establishing credit.
- 9 - (20 pts)** Negotiated joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible.
- 10 - (20 pts)** Provided quick pay agreements and policies to enable minority contractors and suppliers to meet cash flow demands.

The undersigned, if apparent low bidder, will enter into a formal agreement with the firms listed in the Identification of Minority Business Participation schedule conditional upon scope of contract to be executed with the Owner. Substitution of contractors must be in accordance with GS 143-128.2(d). Failure to abide by this statutory provision will constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of the minority business commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____

Name of Authorized Officer _____

Signature _____

Title: _____



State of North Carolina, County of _____

Subscribed and sworn to before me this __ day of _____ 20__

Notary Public _____

My commission expires _____

Attach to Bid Only If Bidder Performs All Work With Own Workforces

Wake County Form MBE-3 (2002)
Intent to Perform Contract with Own Workforce

Affidavit of

_____ (Name of Bidder)

I hereby certify that it is our intent to perform 100% of the work required for the project

_____ (Name of Project)

In making this certification, the Bidder states that the Bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform all elements of the work on this project with his/her own current work forces; and

The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement.

The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.

Date: _____

Name of Authorized Officer: _____

Signature: _____

Title: _____



State of North Carolina, County of _____

Subscribed and sworn to before me this ___ day of _____ 20__

Notary Public _____

My commission expires _____

CERTIFICATION OF PROPOSER:

The Bidder further proposes and agrees hereby to commence work under his Contract on a date to be specified in a written order of Wake County and shall fully complete all work thereunder within the number of consecutive calendar days stipulated in the Supplementary General Conditions. Applicable liquidated damages shall be as stated in Supplementary General Conditions.

The undersigned acknowledges receipt of the following addenda issued during the time of bidding and includes the changes therein in this Proposal:

Addendum Number 1, Dated: 01/27/2026

Addendum Number 2, Dated: 02/02/2026

Addendum Number 3, Dated: 02/06/2026

The undersigned agrees that this Proposal will not be withdrawn for a period of sixty (60) days.

The undersigned agrees to comply with the E-Verify requirements of the General Statutes of North Carolina, all contractors, including any subcontractors employed by the contractor(s), by submitting a bid, proposal or any other response, or by providing any material, equipment, supplies, services, etc., attest and affirm that they are aware and in full compliance with Article 2 of Chapter 64, (NCGS64-26(a)) relating to the E-Verify requirements.

The undersigned agrees not to discriminate in any manner on the basis of race, natural hair or hairstyles, ethnicity, creed, color, sex, pregnancy, marital or familial status, sexual orientation, gender identity or expression, national origin or ancestry, marital or familial status, pregnancy, National Guard or veteran status, religious belief or non-belief, age, or disability with reference to the subject matter of this Contract. The Parties agree to comply with the provisions and intent of Wake County Ordinance SL 2017-4. This anti-discrimination provision shall be binding on the successors and assigns of the Parties with reference to the subject matter of this Contract.

The undersigned further agrees that in the case of failure on his part to execute the said Contract and the Bond within ten (10) consecutive calendar days after written notice being given of the award of the Contract, the check, cash or Bid Bond accompanying this Bid shall be paid into the funds of Owner's Account set aside for this Project, as liquidated damages for such failure; otherwise the check, cash or Bid Bond accompanying this Proposal shall be returned to the undersigned.

Respectfully submitted this ___ day of _____, 20__

PROPOSER SIGNATURE PAGE

(Name of Firm or Corporation making Bid)

By: _____

WITNESS:

(Proprietorship or Partnership)

Title: _____
(Owner, Partner, or Corporation President
or Vice President only)

Address: _____

License Number: _____



Affix Corporate Seal Above

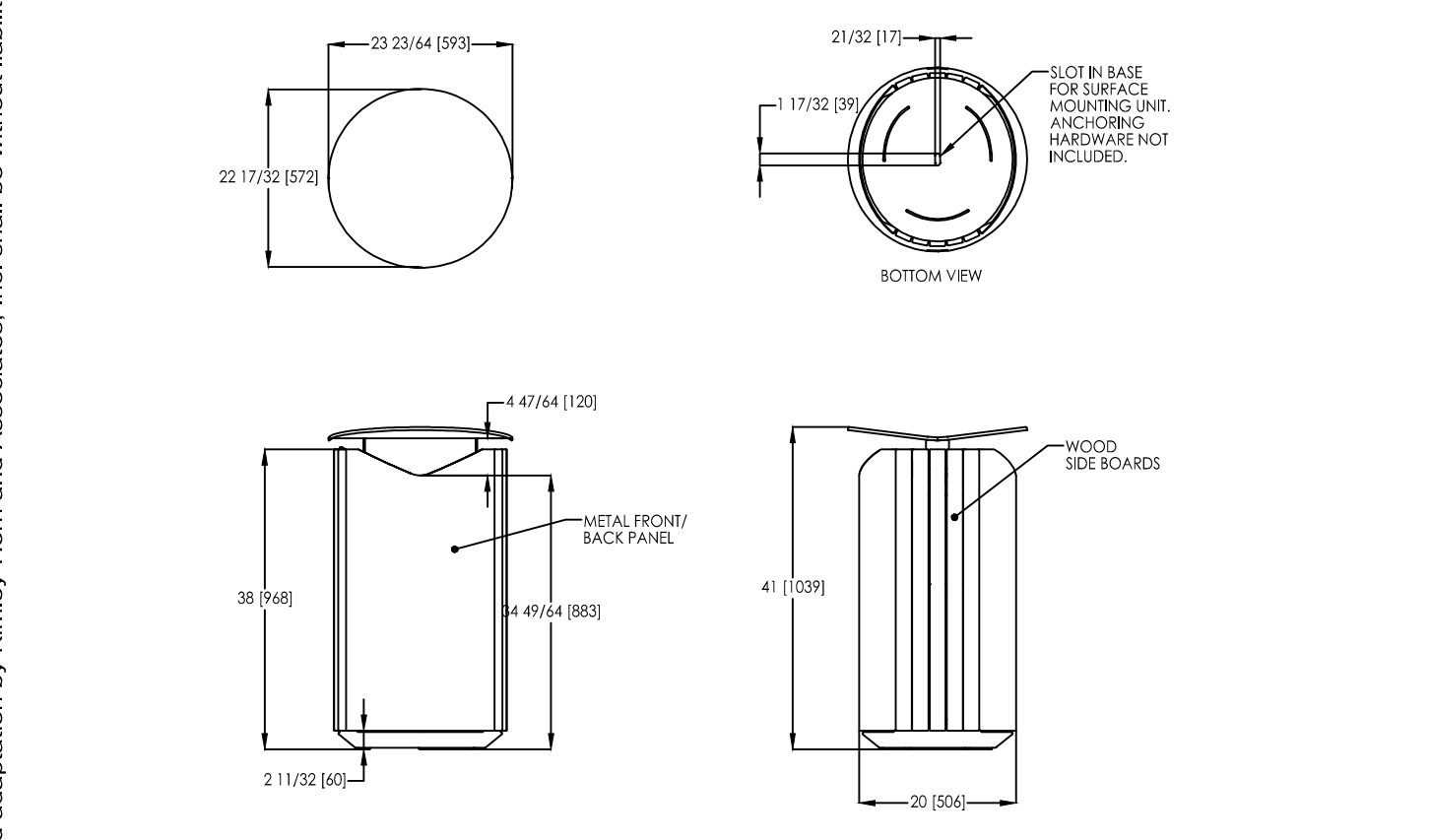
ATTEST:

By: _____

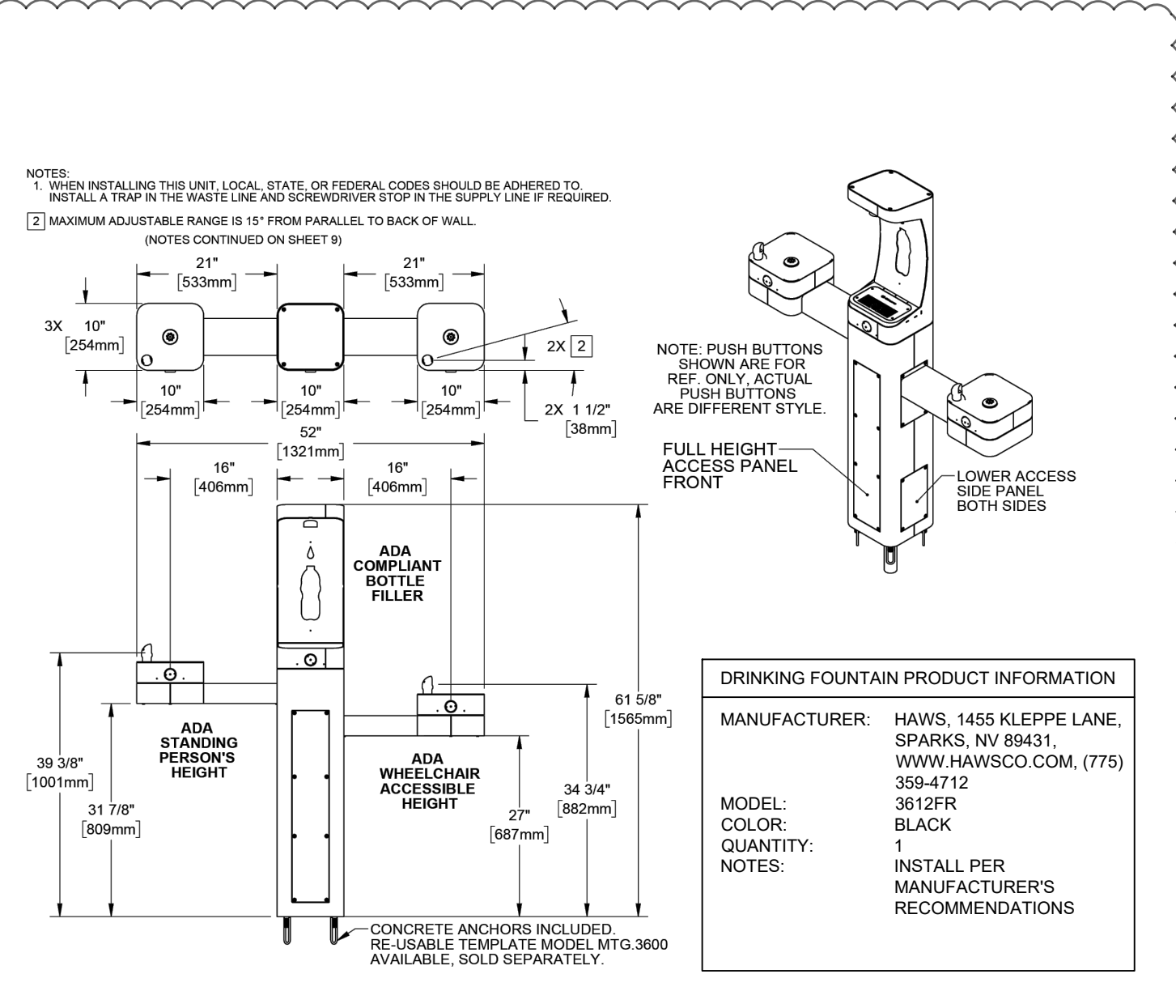
Title: _____
(Corporation Secretary or Assistant Secretary only)

Plotted By: Brown, Seth. Sheet Set: HISTORIC OAK VIEW COUNTY PARK. Layout: C3.6 SITE DETAILS. Date: February 05, 2025. 03:44:18pm. K:\PALM_LDE\01222019_WakeCoParks_HistoricOakView\Planning Phase\10_CAD\PlanSheets\C3.6 SITE DETAILS.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, as intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

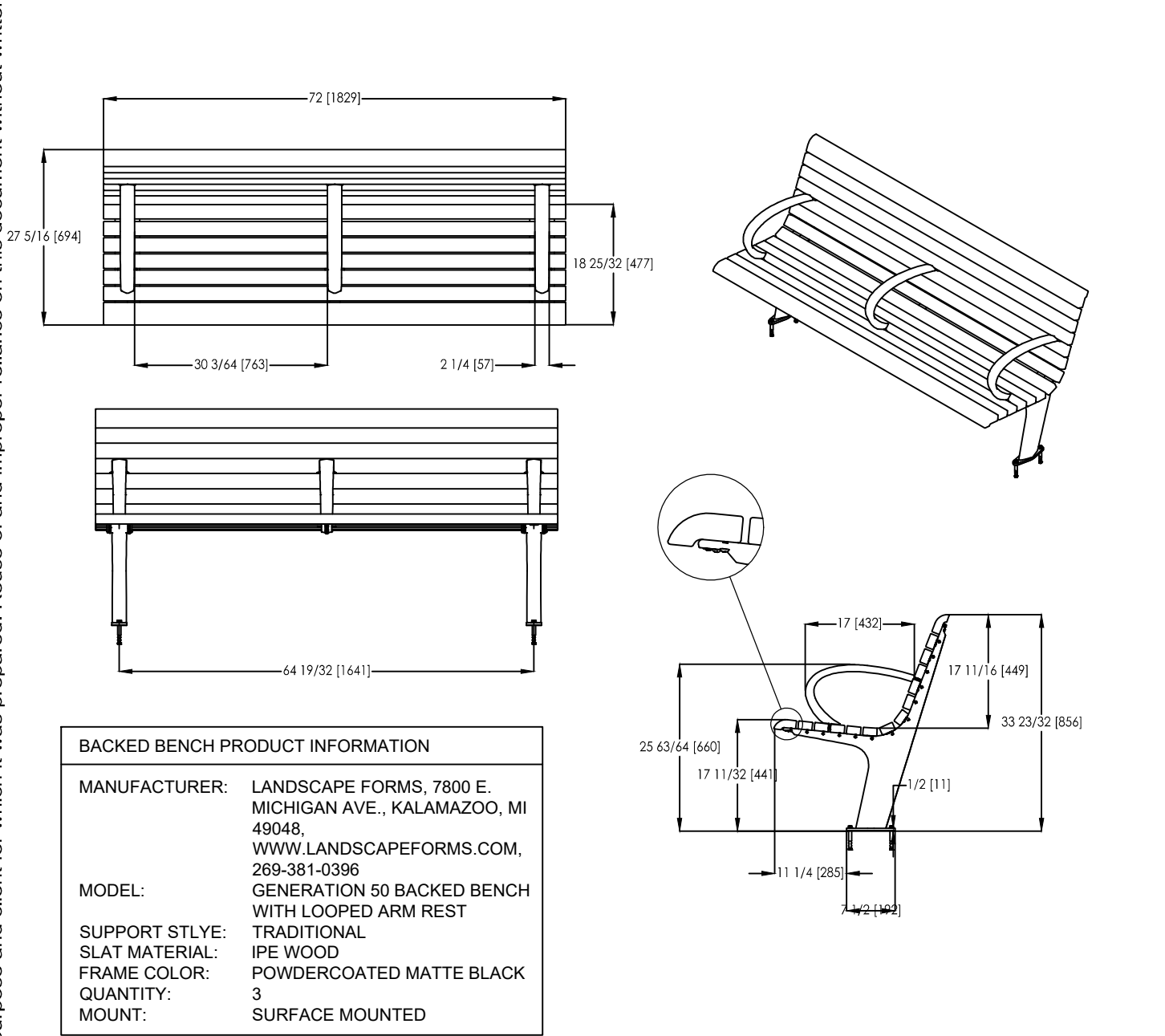
TRASH RECEPTACLE PRODUCT INFORMATION		RECYCLING RECEPTACLE PRODUCT INFORMATION	
MANUFACTURER:	LANDSCAPE FORMS, 7800 E. MICHIGAN AVE., KALAMAZOO, MI 49048, WWW.LANDSCAPEFORMS.COM, 269-381-0396	MANUFACTURER:	LANDSCAPE FORMS, 7800 E. MICHIGAN AVE., KALAMAZOO, MI 49048, WWW.LANDSCAPEFORMS.COM, 269-381-0396
MODEL:	GENERATION 50 WITH RAIN COVER	MODEL:	GENERATION 50 WITH RAIN COVER
MATERIAL:	ASH WOOD WITH MATTED BLACK POWDERCOATED FRONT AND BACK PANEL SURFACE MOUNTED	MATERIAL:	ASH WOOD WITH BLUE POWDERCOATED FRONT AND BACK PANEL SURFACE MOUNTED
MOUNTING:	6	MOUNTING:	2
QUANTITY:	8	QUANTITY:	2
FINISH:	INSTALL PER MANUFACTURER'S RECOMMENDATIONS	FINISH:	INSTALL PER MANUFACTURER'S RECOMMENDATIONS



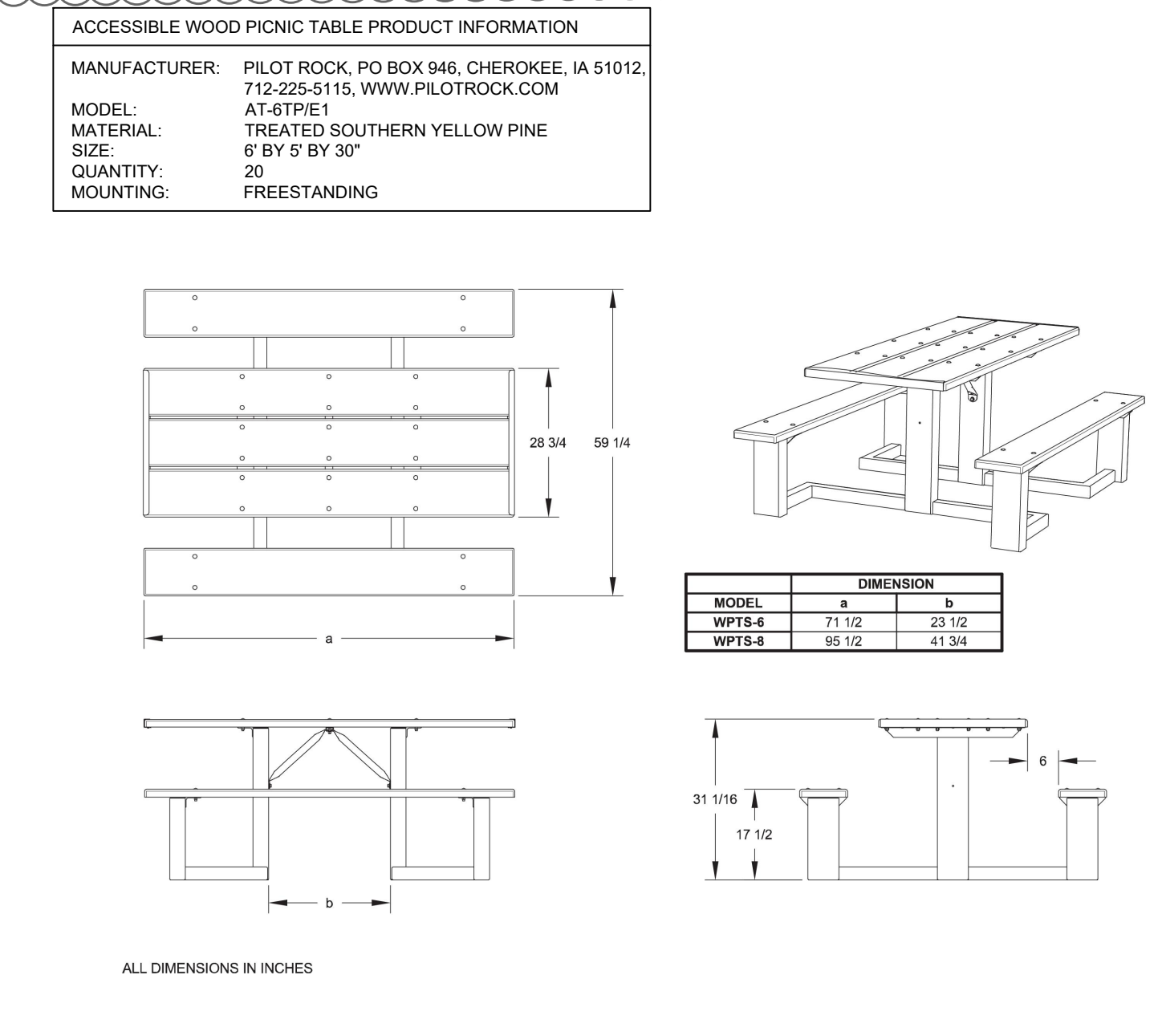
1 LITTER RECEPTACLE
 C3.6 N.T.S. DETAIL



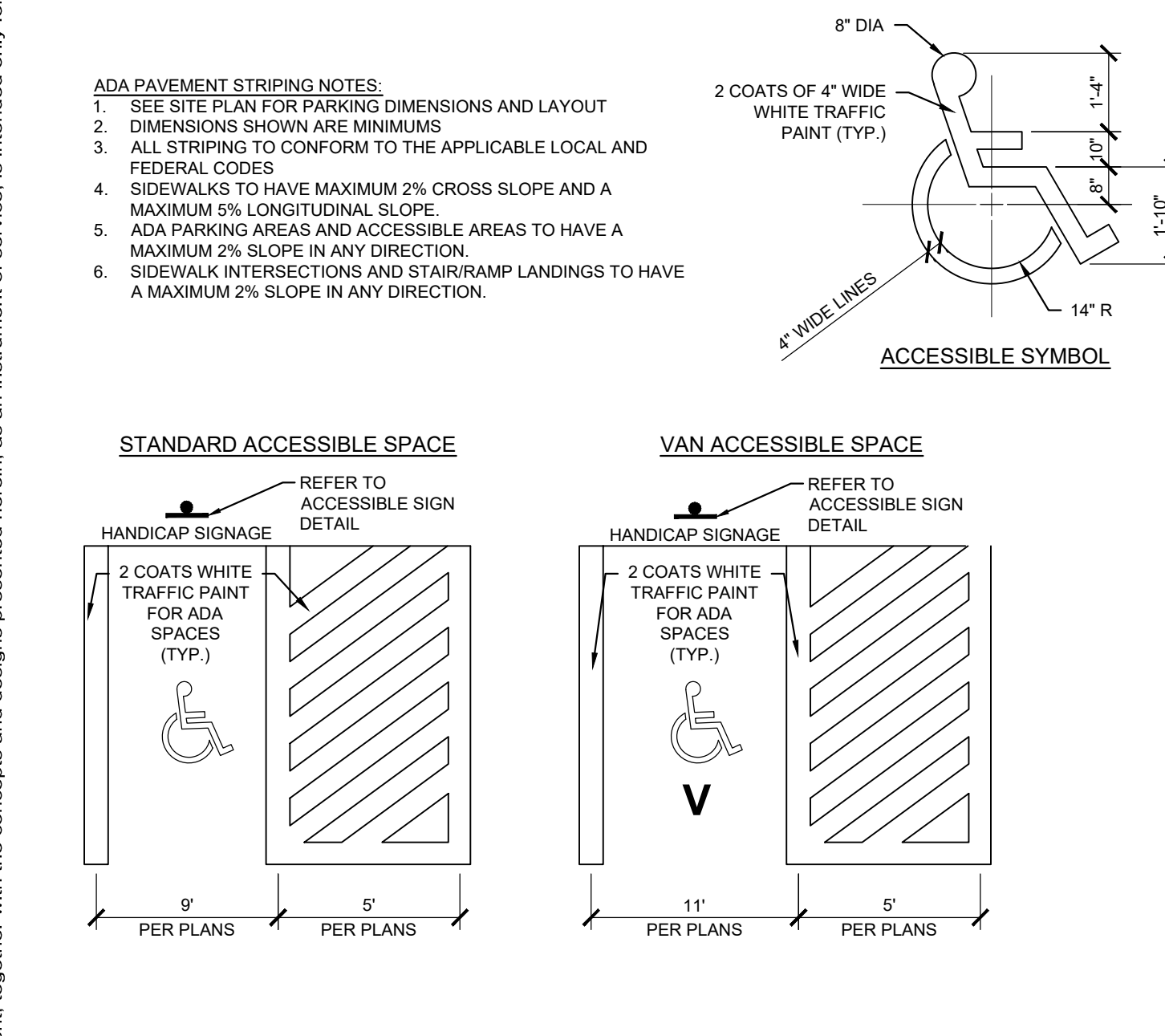
2 OUTDOOR DRINKING FOUNTAIN
 C3.6 N.T.S. DETAIL



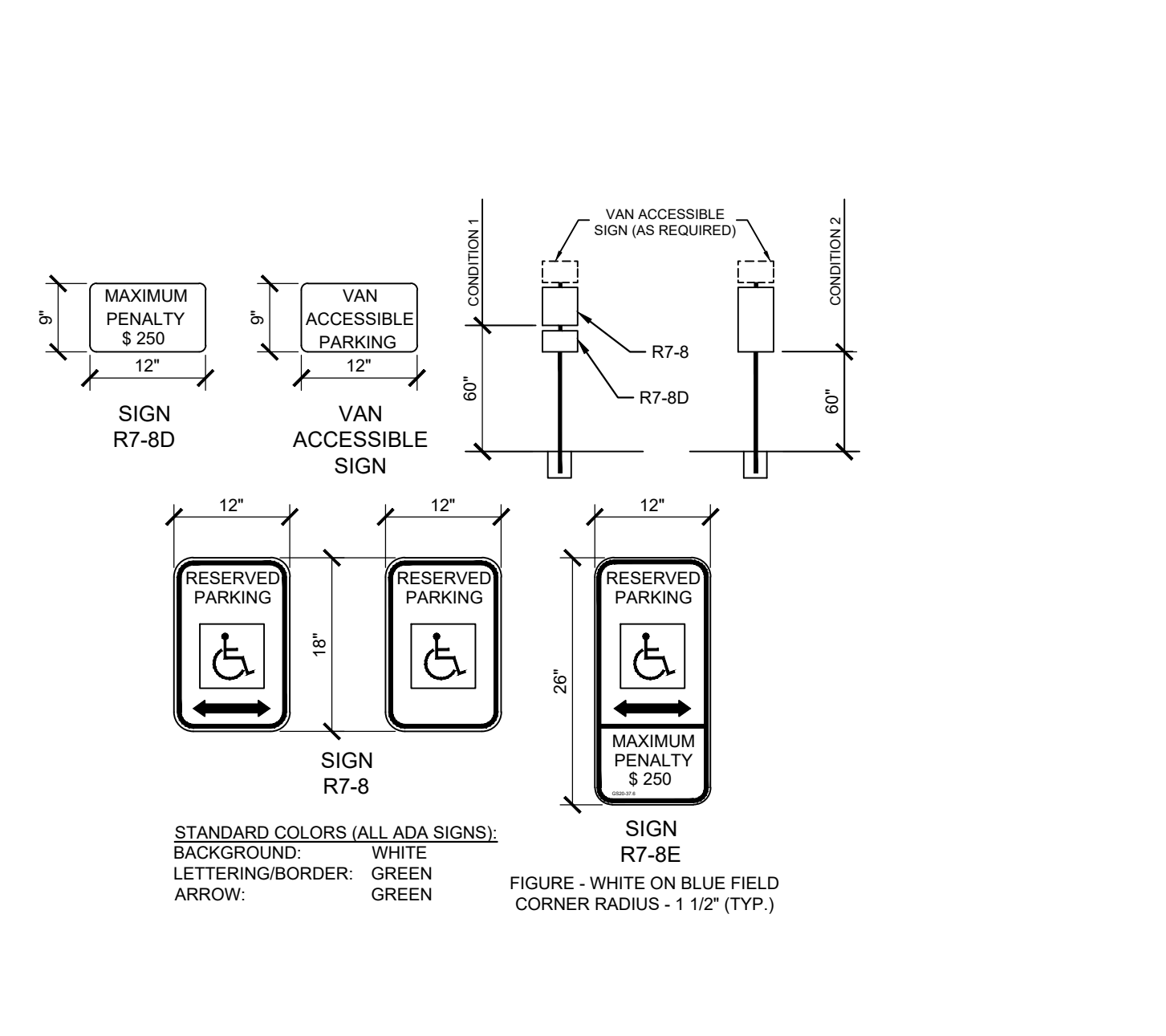
5 BACKED BENCH
 C3.6 N.T.S. DETAIL



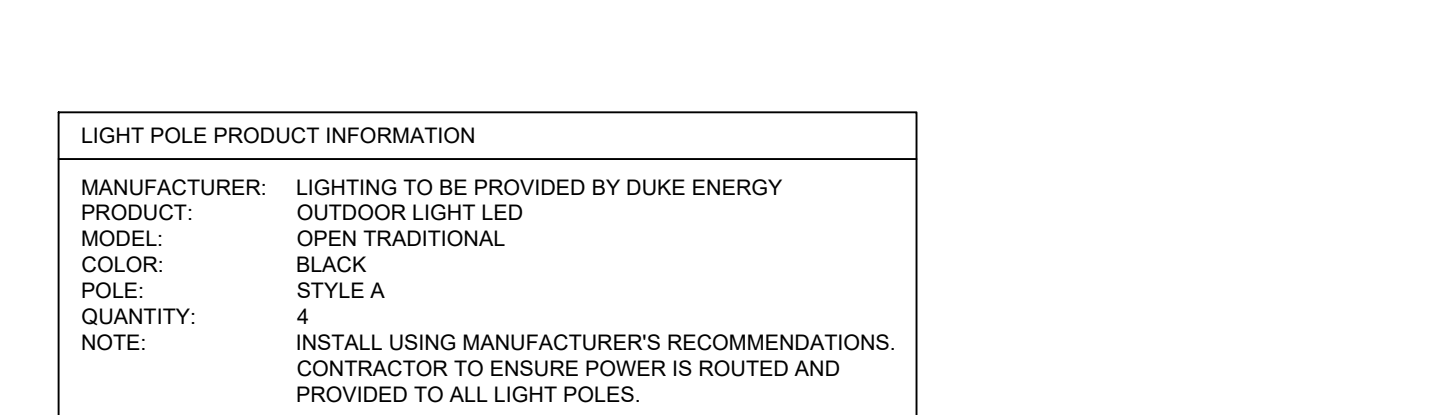
6 ACCESSIBLE WOOD PICNIC TABLE
 C3.6 N.T.S. DETAIL



9 ACCESSIBLE PARKING STRIPING
 C3.6 1" = 1'-0" DETAIL



10 ACCESSIBLE PARKING SIGNAGE
 C3.6 1" = 1'-0" DETAIL



Outdoor Lighting
 OPEN TRADITIONAL LED

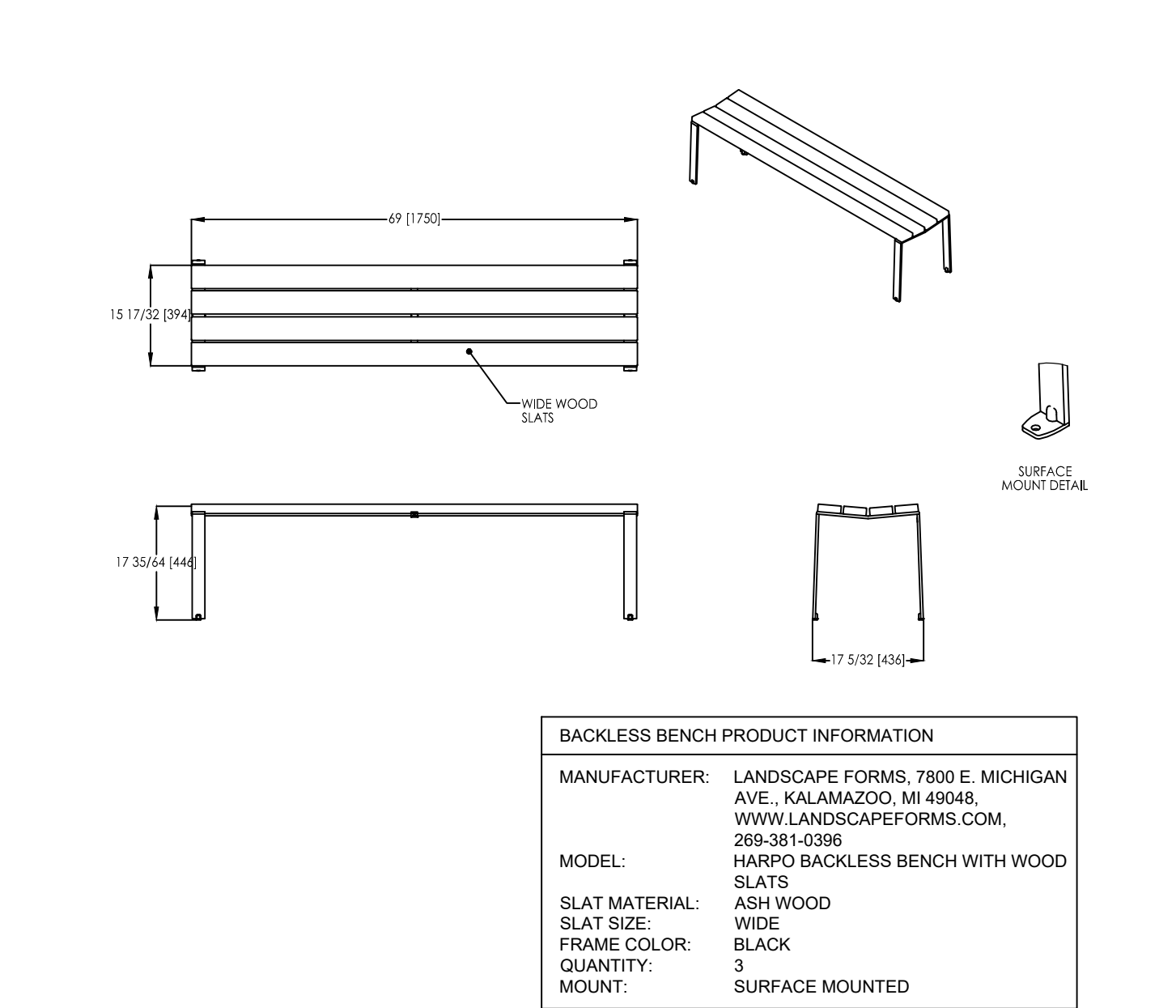
MANUFACTURER: LIGHTING TO BE PROVIDED BY DUKE ENERGY
 PRODUCT: OUTDOOR LIGHT LED
 MODEL: OPEN TRADITIONAL
 COLOR: BLACK
 STYLE: A
 QUANTITY: 4
 NOTE: INSTALL USING MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO ENSURE POWER IS ROUTED AND PROVIDED TO ALL LIGHT POLES.

LED (Light-emitting diode)	50 watts
Mounting height	12 - 17
Color	Black Green (Special Conditions)
Pole	Style A Style B Style C Style D Style E Style F

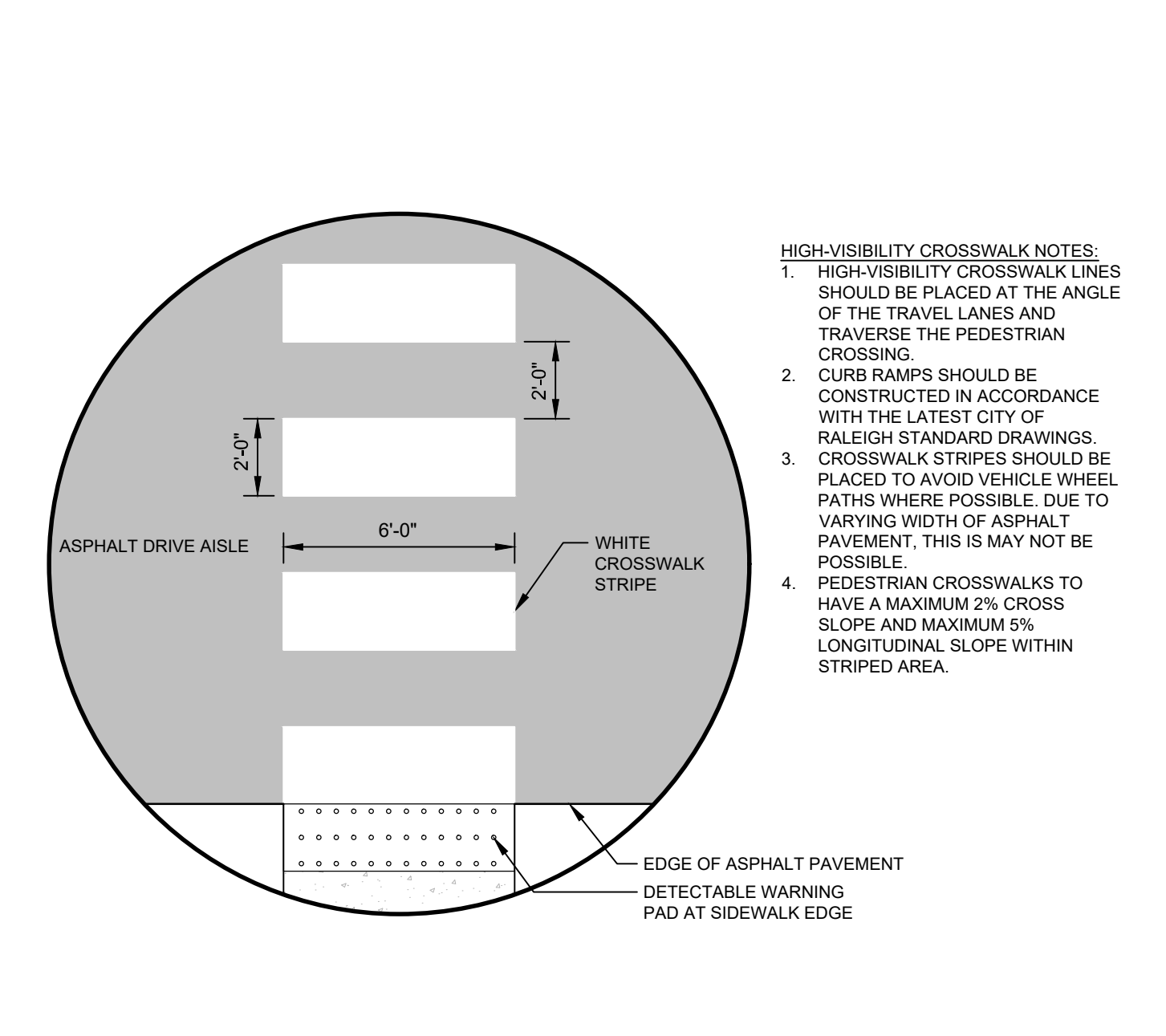
IESNA cutoff classification: Full-cutoff
 Color temperature: 3,000K Primary
 4,000K Available

FIXTURE	WATTS	LUMENS	PATTERN	BUG RATING
Open Traditional	50	4,309	III	B1-U0-G1 B3-U0-G1

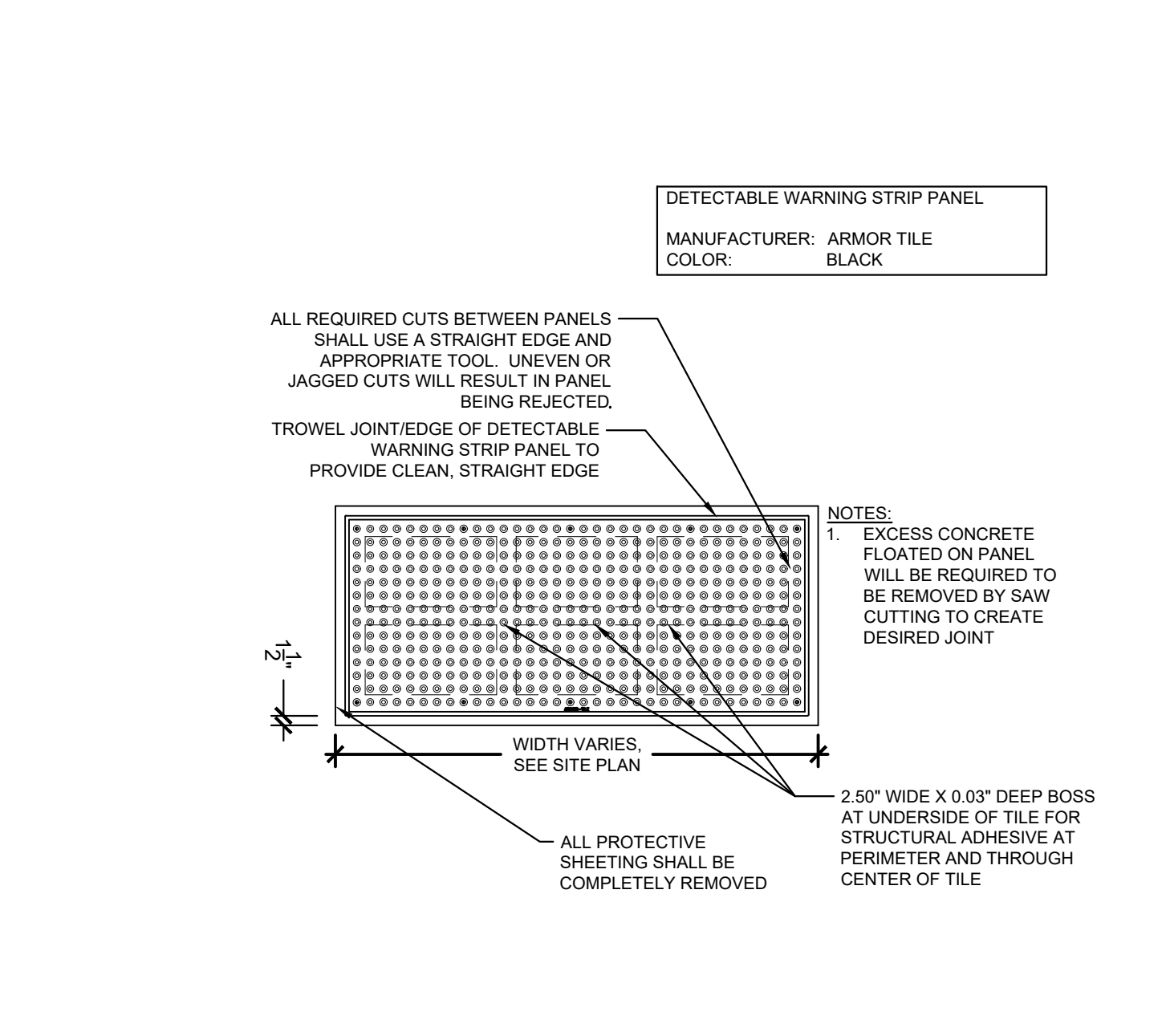
3 DUKE ENERGY LIGHT POLE
 C3.6 N.T.S. DETAIL



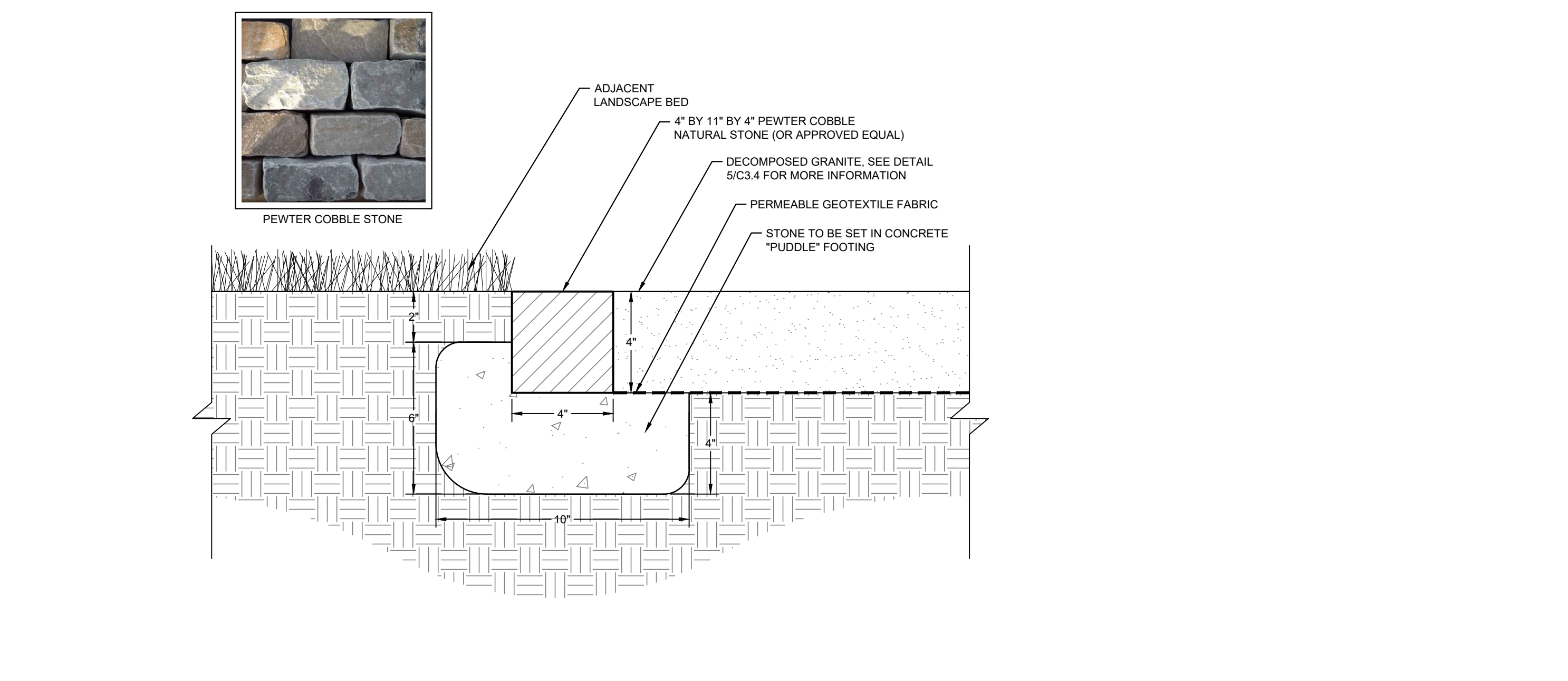
4 BACKLESS BENCH
 C3.6 N.T.S. DETAIL



7 HIGH-VISIBILITY CROSSWALK
 C3.6 1/4" = 1'-0" PLAN/SECTION/AXON



8 DETECTABLE WARNING PANEL
 C3.6 1/2" = 1'-0" DETAIL



11 STONE EDGE RESTRAINT
 C3.6 3" = 1'-0" DETAIL

DPW	DATE	BY
02/06/2026	SDB	
01/27/2026	SDB	
12/01/2025	SDB	
08/01/2025	ASA	
08/01/2025	ASA	
07/10/2025	DPW	
06/25/2025	DPW	

ADDENDUM 3

ISSUED FOR BID PLANS

NCDEQ - 2ND SUBMITTAL

3RD COR SPR SUBMITTAL

NCDEQ - 1ST SUBMITTAL

2ND COR SPR SUBMITTAL

REVISIONS

Kimley >>> Horn

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 #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919-677-2000 FAX: 919-677-2050
 421 FAYETTEVILLE STREET, SUITE 400, RALEIGH, NC 27601

North Carolina Professional Engineer

1924

WELISSA KAY BRAND

02/06/2026

KHA PROJECT DATE 01/22/2019

SCALE AS SHOWN

DESIGNED BY NDK

DRAWN BY SDB

CHECKED BY MKE

SITE DETAILS

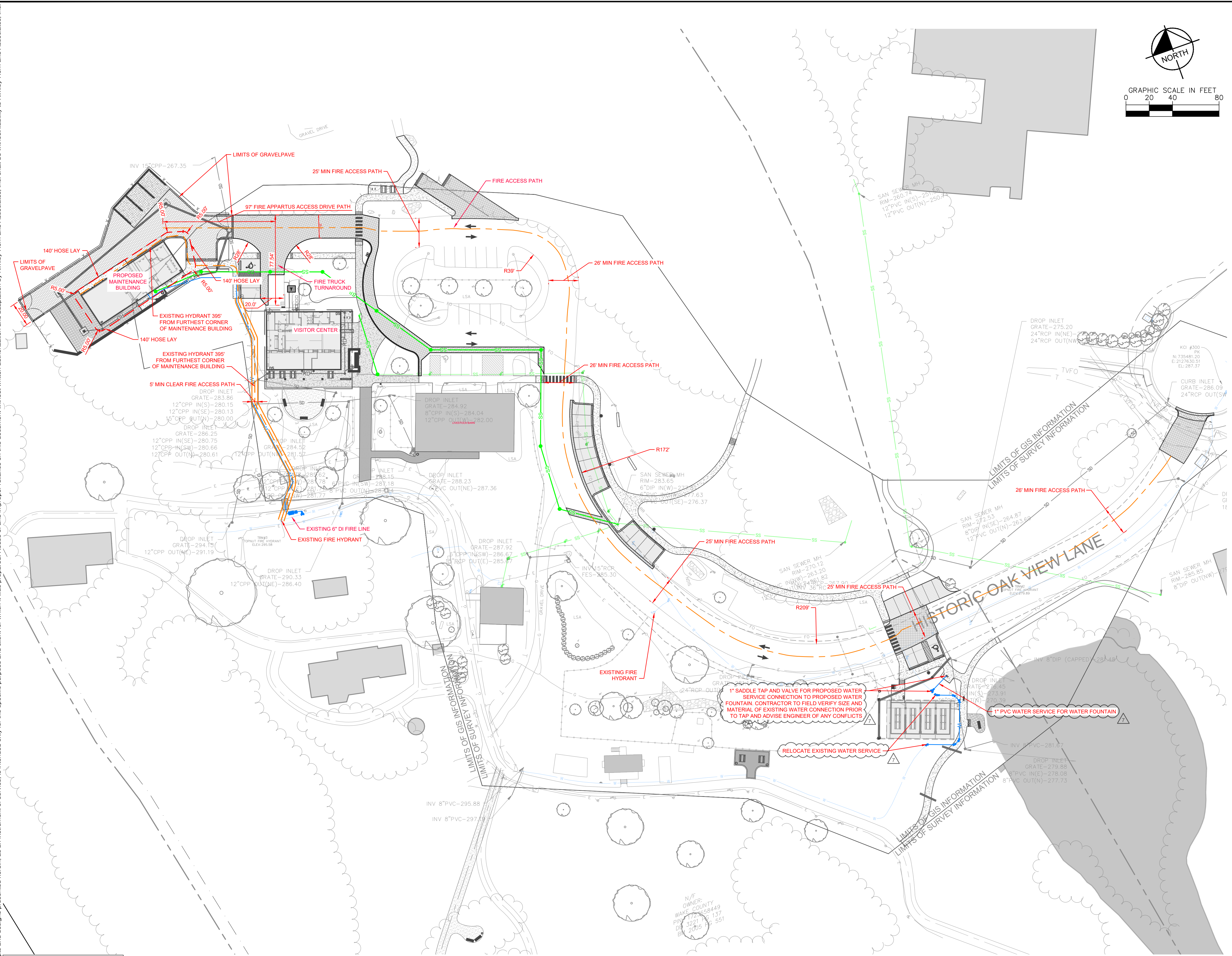
HISTORIC OAK VIEW COUNTY PARK

PREPARED FOR WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION

WAKE COUNTY NORTH CAROLINA

SHEET NUMBER **C3.6**

Plotted By: McGehee, Dan. Sheet Set: HISTORIC OAK VIEW COUNTY PARK LAYOUT C4.1 FIRE ACCESS AND HOSE LAY PLAN. February 05, 2026 09:58:20am. KIRAL_LDEV012262019_WakeCoPds_HistoricOakViewPlanning_Phase1P10_CAD_Files\PlanSheets\C4.1_FIRE_ACCESS_AND_HOSE_LAY_PLAN.dwg. This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



UTILITY LEGEND	
---	PROPERTY LINE
W	WATER LINE
---	FIRE HOSE LAY LENGTHS
SS	SANITARY SEWER LINE
E	ELECTRIC
FO	FIBER OPTIC
G	GAS
P	POWER
T	TELECOMMUNICATION
---	CABLE
□	LIGHT POLE
M	WATER METER
V	GATE VALVE
+	POINT OF CONNECTION
△	BACKFLOW PREVENTOR
+	PIPE TEE/BENDS
+	REDUCER
+	EXISTING FIRE HYDRANT (FH)
+	SANITARY SEWER CLEANOUT (SSCO)
+	SANITARY SEWER MANHOLE (SSMH)
+	SANITARY SEWER GREASE TRAP

- GENERAL NOTES:**
- FIRE DEPARTMENT ACCESS LANE TO BE CAPABLE OF SUPPORTING THE LOAD OF THE APPARATUS WEIGHING AT LEAST 90,000 LBS AND SHALL BE SURFACES TO PROVIDE ALL WEATHER DRIVING CAPABILITIES. GRAVELPAVE ALTERNATE MEANS OF COMPLIANCE APPROVED BY ASSISTANT FIRE MARSHALL ON 07/28/2025.
 - 5 FT FIRE ACCESS PATH TO EXISTING FIRE HYDRANT AS SHOWN ON THE PLANS MUST REMAIN CLEAR OF ANY EQUIPMENT, LANDSCAPING AND/OR DEBRIS.

ADDENDUM 3	DATE	BY
ADDENDUM 1	02/06/2026	SDS
ISSUED FOR BID PLANS	01/27/2026	SDS
NCDEQ - 2ND SUBMITTAL	12/01/2025	SDS
3RD COR SPR SUBMITTAL	08/01/2025	ASA
NCDEQ - 1ST SUBMITTAL	08/01/2025	ASA
2ND COR SPR SUBMITTAL	07/10/2025	DPW
REVISIONS	06/25/2025	DPW

Kimley & Horn

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 #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919-677-2000 FAX: 919-677-2050
 421 FAYETTEVILLE STREET, SUITE 400, RALEIGH, NC 27601



KHA PROJECT	DATE	SCALE	AS SHOWN	DESIGNED BY	NDK	SDS	CHECKED BY	MKE
012262019	02/06/2026	AS SHOWN	NDK	SDS				

FIRE ACCESS AND HOSE LAY PLAN

HISTORIC OAK VIEW COUNTY PARK
 PREPARED FOR
 WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
 NORTH CAROLINA

SHEET NUMBER
C4.1

ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or gas, as approved in these plans, is responsible for contacting the Infrastructure Inspection Division to schedule a pre-construction meeting on the Development Portal prior to beginning any construction.

Raleigh Water must be contacted at (919) 998-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

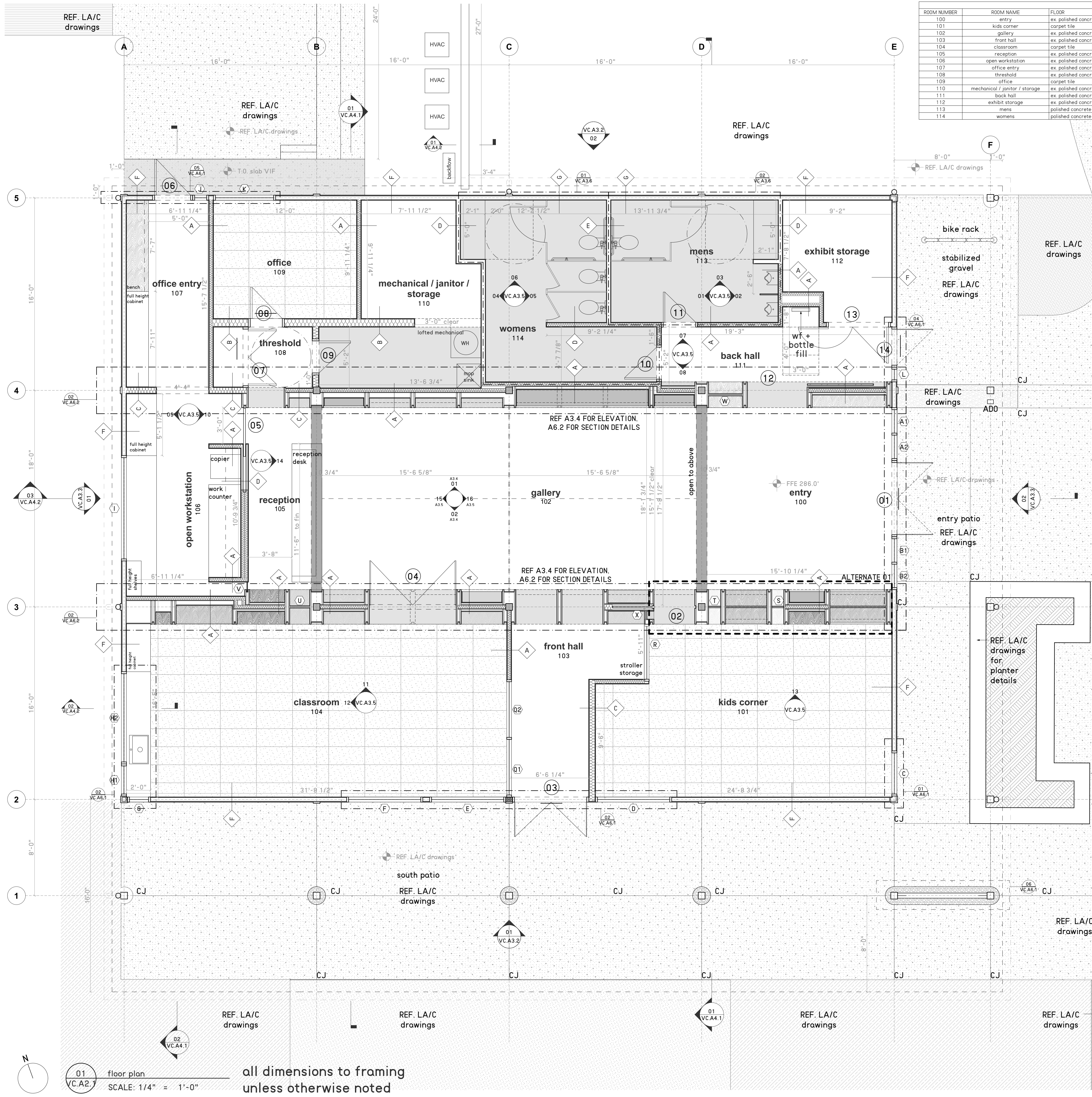
Failure to notify City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require re-installation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a downstream plug, have permitted plans on the jobsite, or any other violation of Raleigh Water Standards will result in a fine and possible exclusion from future work in the City of Raleigh.

GEOTECH NOTE:
 GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT PREPARED BY FALCON ENGINEERING, 919-871-0800, DATED 02/07/2025.

SURVEY NOTE:
 EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHICAL SURVEY OBTAINED ON 06/13/2024 BY KCI ASSOCIATES OF N.C., 4505 FALLS OF NEUSE ROAD, FLOOR 4, RALEIGH, NORTH CAROLINA 27607. PHONE: (919) 783-9214. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.





ROOM NUMBER	ROOM NAME	FLOOR	WALL	CEILING HEIGHT + MATERIAL	NOTES
100	entry	ex. polished concrete - exposed aggregate	wd paneling + windows + millwork	9'-10" - wd ceiling/ 8'-6" wd bulkhead	all concrete to have a ground exposed aggregate finish
101	kids corner	carpet tile	ptd gyp bd + windows + millwork	9'-10" - metal grid system	
102	gallery	ex. polished concrete - exposed aggregate	wd paneling + millwork	voulted- ptd gyp bd	all concrete to have a ground exposed aggregate finish
103	front hall	ex. polished concrete - exposed aggregate	ptd gyp bd + windows + millwork	9'-10" - ptd gyp bd	all concrete to have a ground exposed aggregate finish
104	classroom	carpet tile	ptd gyp bd + windows + millwork	9'-10" - metal grid system	
105	reception	ex. polished concrete - exposed aggregate	ptd gyp bd + millwork	9'-10" - ptd gyp bd	all concrete to have a ground exposed aggregate finish
106	open workstation	ex. polished concrete - exposed aggregate	ptd gyp bd + windows + millwork	9'-10" - ptd gyp bd	all concrete to have a ground exposed aggregate finish
107	office entry	ex. polished concrete - exposed aggregate	ptd gyp bd + millwork + tile	9'-10" - ptd gyp bd	all concrete to have a ground exposed aggregate finish
108	threshold	ex. polished concrete - exposed aggregate	ptd gyp bd	9'-10" - ptd gyp bd	all concrete to have a ground exposed aggregate finish
109	office	carpet tile	ptd gyp bd + windows	9'-10" - metal grid system	
110	mechanical / janitor / storage	ex. polished concrete - exposed aggregate	ptd gyp bd + millwork + windows	9'-10" - ptd gyp bd	accessible lifted area area over mechanical to remain
111	back hall	ex. polished concrete - exposed aggregate	ptd gyp bd + millwork + windows	9'-10" - ptd gyp bd	all concrete to have a ground exposed aggregate finish
112	exhibit storage	ex. polished concrete - exposed aggregate	ptd gyp bd	varies - existing roof structure	all concrete to have a ground exposed aggregate finish
113	mens	polished concrete - exposed aggregate	ptd wd + ex. wd paneling	8'-0" - ex. ptd gyp bd	stainless steel partitions, ref VC.A3.4 for toilet accessories
114	womens	polished concrete - exposed aggregate	ptd wd + ex. wd paneling	8'-0" - ex. ptd gyp bd	stainless steel partitions, ref VC.A3.4 for toilet accessories

DOOR #	DOOR SIZE	TYPE	FRAME	FACE	CORE	FINISH	HARDWARE	NOTES
01	6'-4" x 9'-10" RO	double	alum	glass	-	alum	panic-ADO+card access	custom-sized door with weatherstripping, ADO
02	3'-6" x 8'-8" RO	pocket	wd	wd	solid	stained	lock + lock	custom door integrated w cabinet wall
03	6'-4" x 9'-10" RO	double	alum	glass	-	alum	panic	custom-sized door with weatherstripping
04	7'-7" x 8'-8" RO	double	wd	glass	-	stained	panic + lock	custom door integrated w cabinet wall
05	4'-0" x 9'-10" RO	pocket	wd	wd	solid	stained	lock	custom door integrated w cabinet wall, ref VC.A6.2
06	3'-4" x 9'-10" RO	single	alum	glass	-	alum	panic + card access	custom-sized door with weatherstripping
07	5'-1/4" x 7'-0" RO	double	hm	wd	solid	ptd	latch + lock	
08	3'-0" x 7'-0" RO	single	hm	wd	solid	ptd	latch + lock	
09	3'-0" x 7'-0" RO	single	hm	wd	solid	ptd	latch + lock	
10	3'-0" x 8'-0" RO	single	hm	wd	solid	stained	latch + lock	
11	3'-0" x 8'-0" RO	single	hm	wd	solid	stained	latch + lock	
12	5'-6" x 8'-8" RO	sliding	steel	wire mesh	pc	lock	lock	custom door integrated w cabinet wall, ref VC.A5.7
13	5'-4" x 9'-10" RO	double	hm	wd	solid	ptd	latch + lock	180° hinge, asymmetric leaf
14	3'-4" x 9'-10" RO	single	alum	glass	-	alum	latch + lock	custom-sized door with weatherstripping

VC FLOOR PLAN LEGEND

- DROPPED CEILING
- SITE CONCRETE SLAB
- PLANTING
- STABILIZED GRAVEL
- ASPHALT
- CERAMIC TILE
- CARPET
- SOUND BATT INSULATION

VC DOOR SCHEDULE

INTERIOR

A INTERIOR
gyp bd wall

B INTERIOR
gyp bd wall

C INTERIOR
gyp bd wall

D INTERIOR
existing bathroom wall

E INTERIOR
existing bathroom wall

EXTERIOR

F EXTERIOR
existing wood siding wall

G EXTERIOR
existing bathroom + wood siding wall

5/8" ptd gypsum board
2x4 stud wall
sound batt insulation
5/8" ptd gypsum board

5/8" ptd gypsum board
2x8 stud wall
sound batt insulation
5/8" ptd gypsum board

5/8" ptd gypsum board
2x6 stud wall
sound batt insulation
5/8" ptd gypsum board

5/8" ptd gypsum board
2x4 stud wall
existing wood panels to be painted

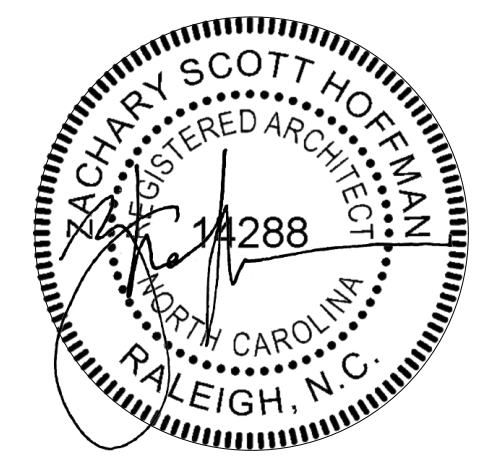
existing wood siding to be painted
2x4 stud wall
existing wood panels to be painted

5/8" ptd gypsum board
w/ mud edge
2x4 wood stud wall
R-13 insulation
7/16" ply sheathing
15# bldg felt
horizontal wood siding

5/8" ptd gypsum board
w/ mud edge
2x4 wood stud wall
R-13 insulation
7/16" ply sheathing
15# bldg felt
wood board

02 VC.A2.1 partition schedule exterior
SCALE: 1 1/2" = 1'-0"

01 VC.A2.1 floor plan
SCALE: 1/4" = 1'-0"
all dimensions to framing unless otherwise noted



**BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS**

Name of Project: **Oak View Farm History Center**
 Address: **4028 Cary Drive, Raleigh, North Carolina**
 Proposed Use: **Small Assembly**
 Contact Person: **Steven D. Schuster** Phone # **821-2775**
 DESIGNER NAME /LICENSE # TELEPHONE #
 Architectural **Clearscapes, P.A.** Steven D. Schuster **3113** **919-821-2775**
 Electrical **The Wooten Company** Wayne Chappell **10391** **919-828-0531**
 Plumbing **The Wooten Company** Bob Donaldson **16290** **919-828-0531**
 Mechanical **The Wooten Company** Bob Donaldson **16290** **919-828-0531**
 Structural **Lysaght & Assoc.** Charles A. Lysaght **7908** **919-833-0495**
 Sprinkler-Standpipe **N/A**
 Fire Alarm **The Wooten Company** Wayne Chappell **10391** **919-828-0531**

Other
 BUILDING DATA
 Occupancy: **Assembly** Business Educational Mercantile Hazardous
 Factory-Industrial Residential Storage Institutional
 Mixed Occupancy? Yes **No** Separation: **N/A** Hr.
 Construction Type: I II III IV(P) IV(UP) V(P) V(UP) VI(P)
 VI(UP) Mixed construction Yes **No** Type
 Sprinkled? Yes **No** (13 13R 13D):
 Fire District? Yes **No**
 Building Height: **26** Feet **1** Number of Stories
 Mezzanine: Yes **No**
 High Rise? Yes **No**
 Gross Building Area: (Foot Print) Sq. Ft. Sq. Ft.
 Basement 4th Floor
 1st Floor **3110** 5th Floor
 2nd Floor 6th Floor
 3rd Floor 7th Floor
 Total Gross Area: **3110** Sq. Ft.
 Area Increase? Yes **No** Yes, code reference:
 If Yes, calculations:
FIRE RESISTANCE RATINGS****
 Required Hourly Rating Detail & Sheet # % Wall of Rated Opening ULFM # ** for Rated Assemblies
 Party/Firewalls: **N/A**
 Exterior bearing walls:
 North **0**
 East **0**
 West **0**
 South **0**
 Exterior non-bearing walls:
 North **N/A**
 East **N/A**
 West **N/A**
 South **N/A**
 Interior walls: UL Penet. # UL/FM # ** Assemblies
 Bearing **N/A**
 Non-bearing **0**
 Tenant Separation **N/A**
 Ceiling-Floors Assembly: **0**
 Beams: **0**
 Columns: **0**
 Ceiling-Roof Assembly: **0**
 Vertical Shafts: **** **N/A**
 Chases - P.E.M.: **N/A**
 Mixed Occupancy Sep: **N/A**
 Tenant Separation: **N/A**
LIFE SAFETY SYSTEM:
 Emergency Lighting and Exit Signs Yes / No
 Fire Alarm and Smoke Detections Systems Yes / No
 Panic Hardware Yes / No
EXIT REQUIREMENTS:
 Dead end limit -Maximum condition **5 Feet**
 Travel distance to exit-maximum condition **42 Feet**
 Number exits:
 Total square footage of floor **3100** divided by net/sq. ft. per occupancy **2176 ÷ 15** equals **145** total number of people on floor.
 Number of doors provided **2**, number of doors required **2**.
DESIGN LOADS:
 Roof live load: **25** psf.
 Wind: **80** mph.
 Floor: **100** psf.
 Snow: **15** psf.
 Seismic: **Average = 0.075 (Zone 1)**
 Soil Bearing Capacities:
 Field Test (provided copy of test report) psf.
 Presumptive Bearing capacity **3000** psf.
PARKING SPACES: **N/A** Required **N/A** Provided
 Handicap spaces **N/A** provided (13' wide and R7-8 sign)
 Special approval by Department of Insurance or by Local Jurisdiction describe below: **NONE**

FINISH SCHEDULE

NO.	NAME	FLOOR			WALLS				CEILING			REMARKS
		MATERIAL	FINISH	BASE	NORTH	SOUTH	WEST	EAST	MAT	FIN	HT	
101	COVERED PORCH	CONCRETE	BROOM	NONE	WD/PT	N/A	N/A	N/A	STRUCTURE	PT	VARIES	
102	EXHIBITS	CONCRETE	SEALED	CONC	GWB/PT	GWB/PT	GWB/PT	GWB/PT	STRUCTURE	PT	VARIES	
103	GATHERING	CONCRETE	SEALED	CONC	GWB/PT	N/A	N/A	N/A	STRUCTURE	PT	VARIES	
104	COVERED ENTRY	CONCRETE	BROOM	NONE	WD/PT	N/A	N/A	N/A	STRUCTURE	PT	VARIES	
105	OFFICE	VCT	NA	CONC/WD	GWB/PT	GWB/PT	GWB/PT	GWB/PT	GYP. BD.	PT	8'-0"	
106	CORRIDOR	CONCRETE	SEALED	CONC/WD	GWB/PT	GWB/PT	GWB/PT	GWB/PT	GYP. BD.	PT	8'-0"	SEE NOTE
107	WOMEN	C.T.	NA	C.T.	PT/WD BOARD	PT/WD BOARD	PT/WD BOARD	PT/WD BOARD	GYP. BD.	PT	8'-0"	SEE NOTE
108	MEN	C.T.	NA	C.T.	PT/WD BOARD	PT/WD BOARD	PT/WD BOARD	PT/WD BOARD	GYP. BD.	PT	8'-0"	SEE NOTE
109	MECHANICAL	CONCRETE	SEALED	CONC/WD	GWB/PT	GWB/PT	GWB/PT	GWB/PT	STRUCTURE	PT	7'-0"	
110	FOYER	CONCRETE	SEALED	CONC/WD	GWB/PT	GWB/PT	GWB/PT	GWB/PT	PT/WD BOARD	PT	7'-0"	SEE NOTE
111	KITCHEN	CT	NA	C.T.	GWB/PT	GWB/PT	GWB/PT	GWB/PT	GYP. BD.	PT	8'-0"	
112	STORAGE	CONCRETE	SEALED	CONC/WD	GWB/PT	GWB/PT	GWB/PT	GWB/PT	STRCT.	PT	VARIES	

NOTE: WD BOARD IS 1X4 TONGUE AND GROOVE "V" BOARD.
 ALL SEALED CONCRETE TO RECEIVE FINAL COAT AT FINAL CLEANING

DOOR SCHEDULE

NO.	DESCRIPTION	SIZE	TYPE	FRAME		HEAD	JAMB	HARDWARE	REMARKS
				MAT	TYPE				
1	WOOD & GLASS	3'-0" x 9'-10" x 1 3/4" PR	A	WOOD	1	SIM A-2L	A2F		
2	WOOD & GLASS	3'-0" x 9'-10" x 1 3/4" PR	A	WOOD	1	SIM A-2R	A2F		
3	WOOD & GLASS	3'-0" x 9'-10" x 1 3/4" PR	A	WOOD	1	A4E	A2G		
4	SC WOOD	√ 3'-0" x 6'-8" x 1 3/4"	B	WOOD	2	SIM A2H	A2H		
5	SC WOOD	√ 3'-0" x 6'-8" x 1 3/4"	B	WOOD	2	SIM A2H	A2H		
6	SC WOOD	√ 3'-0" x 6'-8" x 1 3/4"	B	WOOD	2	SIM A2H	A2H		
7	SC WOOD	√ 3'-0" x 6'-8" x 1 3/4"	B	WOOD	2	SIM A2H	A2H		
8	SC WOOD	√ 3'-0" x 6'-8" x 1 3/4" PR	D	WOOD	3	SIM A2H	A2H		
9	SC WOOD	√ 3'-0" x 6'-8" x 1 3/4"	E	WOOD	2	SIM A2H	A2H		
10	HOLLOW METAL W/ GLASS	√ 3'-0" x 6'-8" x 1 3/4"	C	WOOD	2	SIM A4E	SIM A2F		

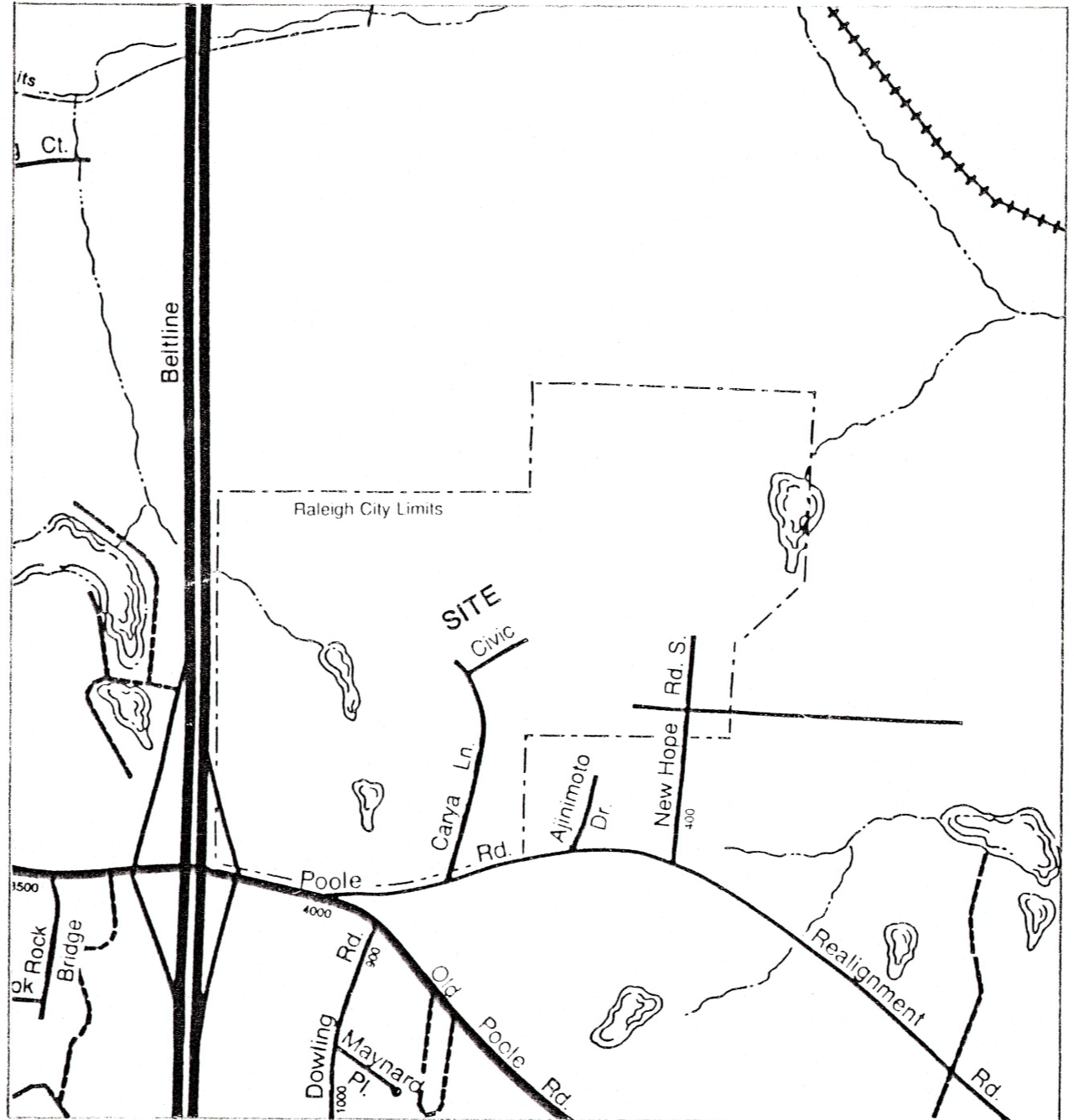
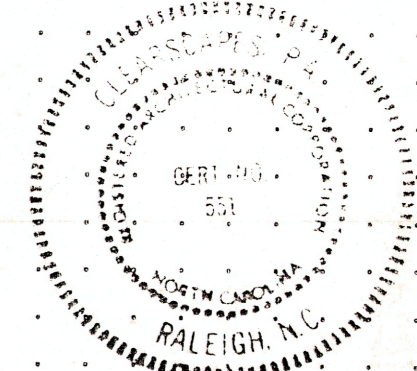


TABLE OF CONTENTS

COVER	Building Code Summary, Schedules
SD-1	Site Utility Plan
A-1	Site Plan
A-2	Floor Plan
A-3	Building Section
A-4	Elevations
A-5	Architectural Details
S-1	Structural Plan
P-1	Plumbing Plan
P-2	Plumbing Risers
M-1	HVAC Notes, Schedules, Plan
M-2	HVAC Plans, Sections
M-3	HVAC Schedules
E-1	Schedules, Fire Alarm
E-2	Lighting Plan
E-3	Power Plan

112 E. HARGETT STREET, SUITE 900
 RALEIGH, NC 27601 919 821 2775

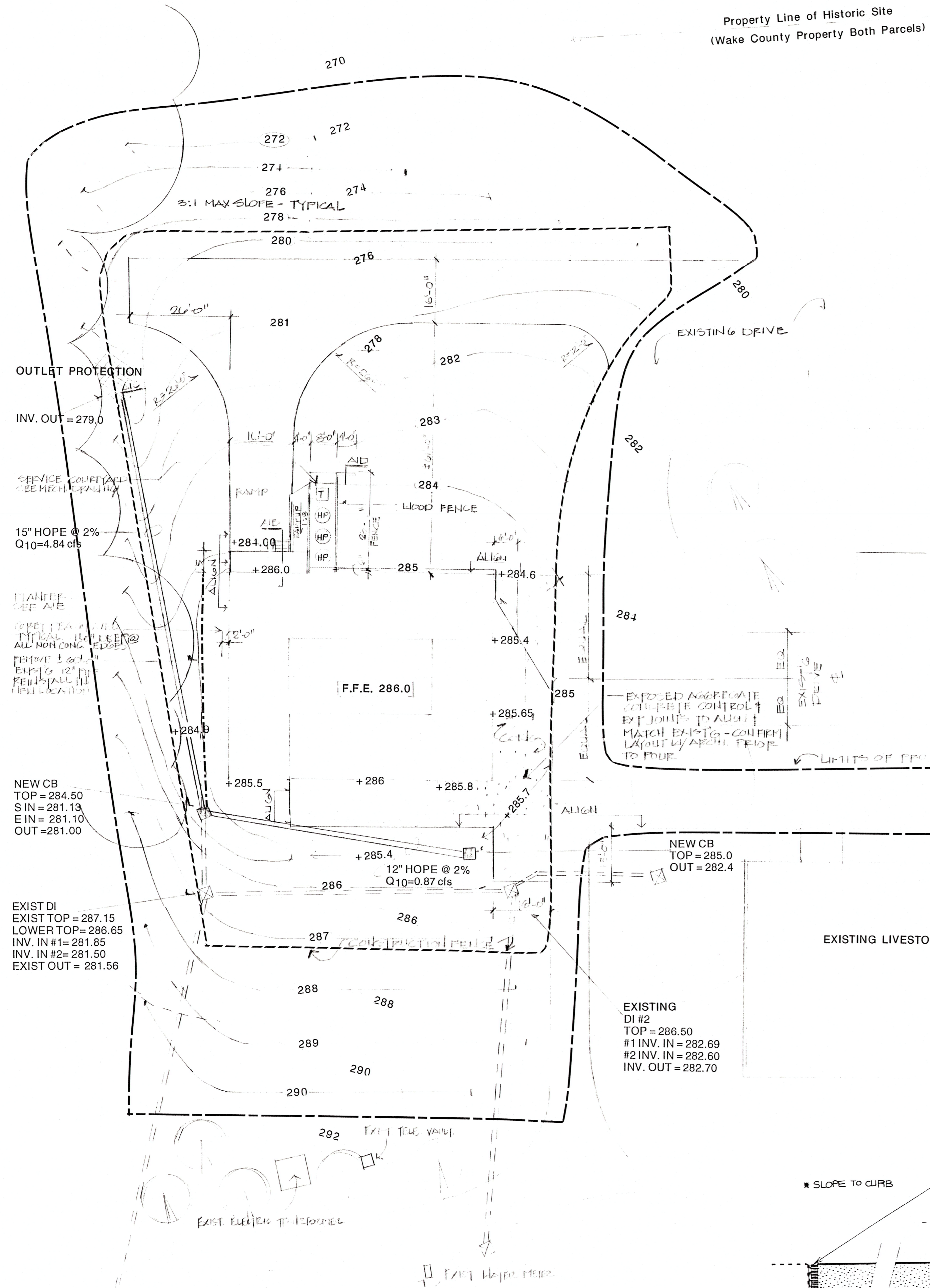
OAK VIEW
 FARM HISTORY CENTER
 WAKE COUNTY,
 NORTH CAROLINA



3113
 Steven D. Schuster
 7-7-95

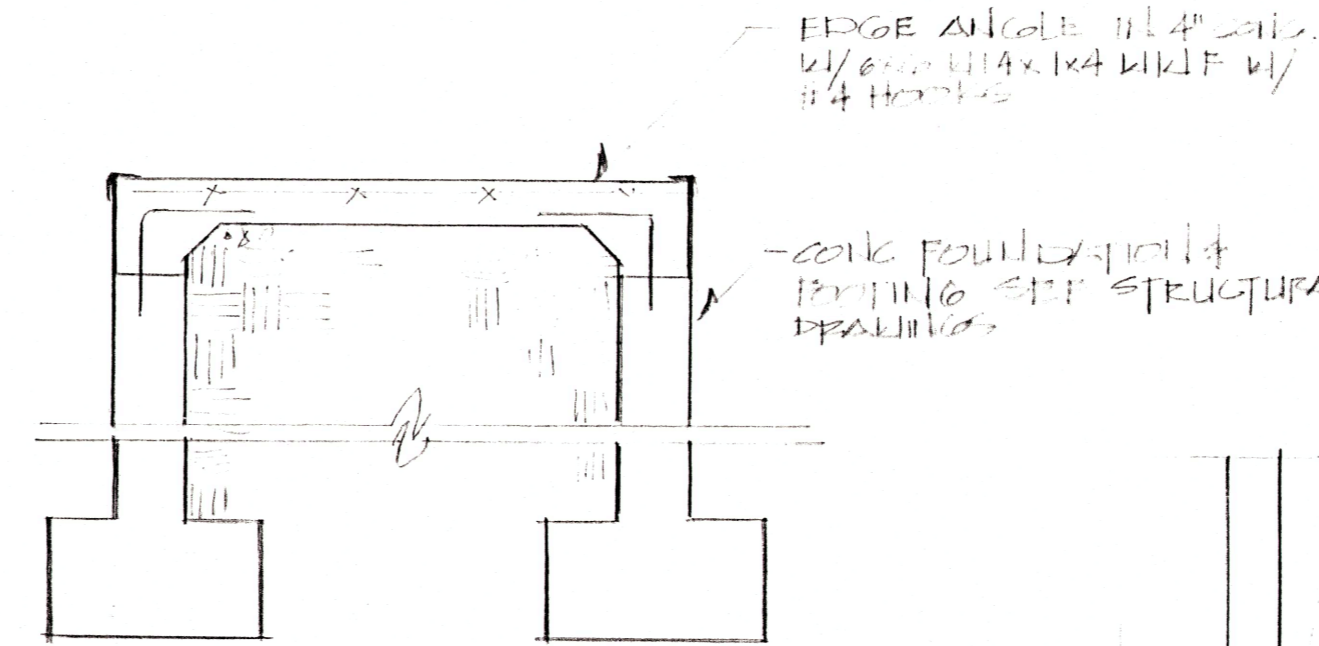
Date **DECEMBER 1, 1995**
 Checked
 Drawn **TCL**

COVER

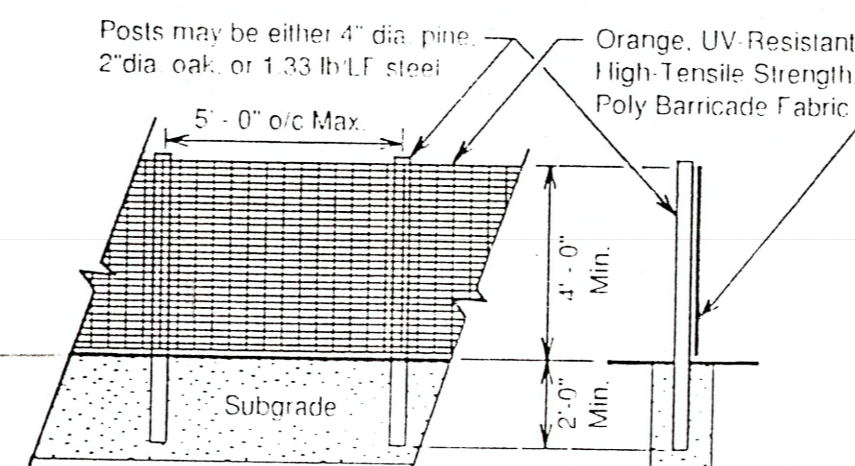


T.B.M. South East Corner of South East Footer of Water Tower Elevation = 285.55

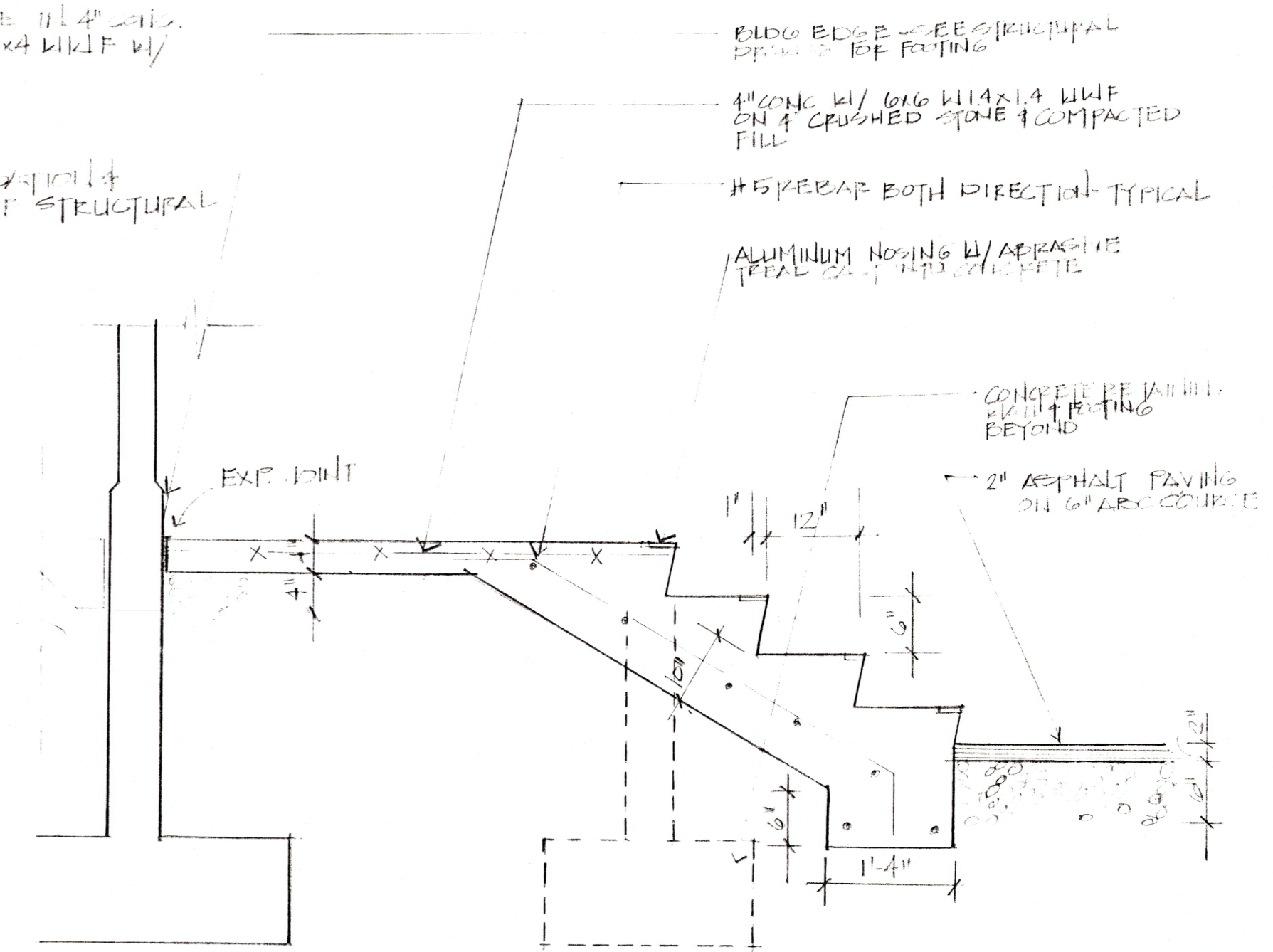
A. SITE PLAN
SCALE 1/16"=1'-0"



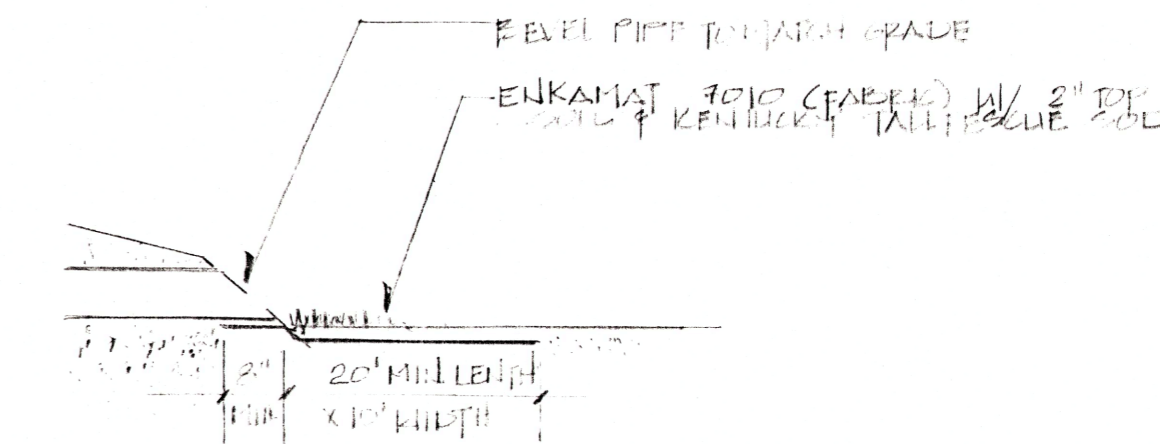
E. SECTION @ RAMP
SCALE 3/4"=1'-0"



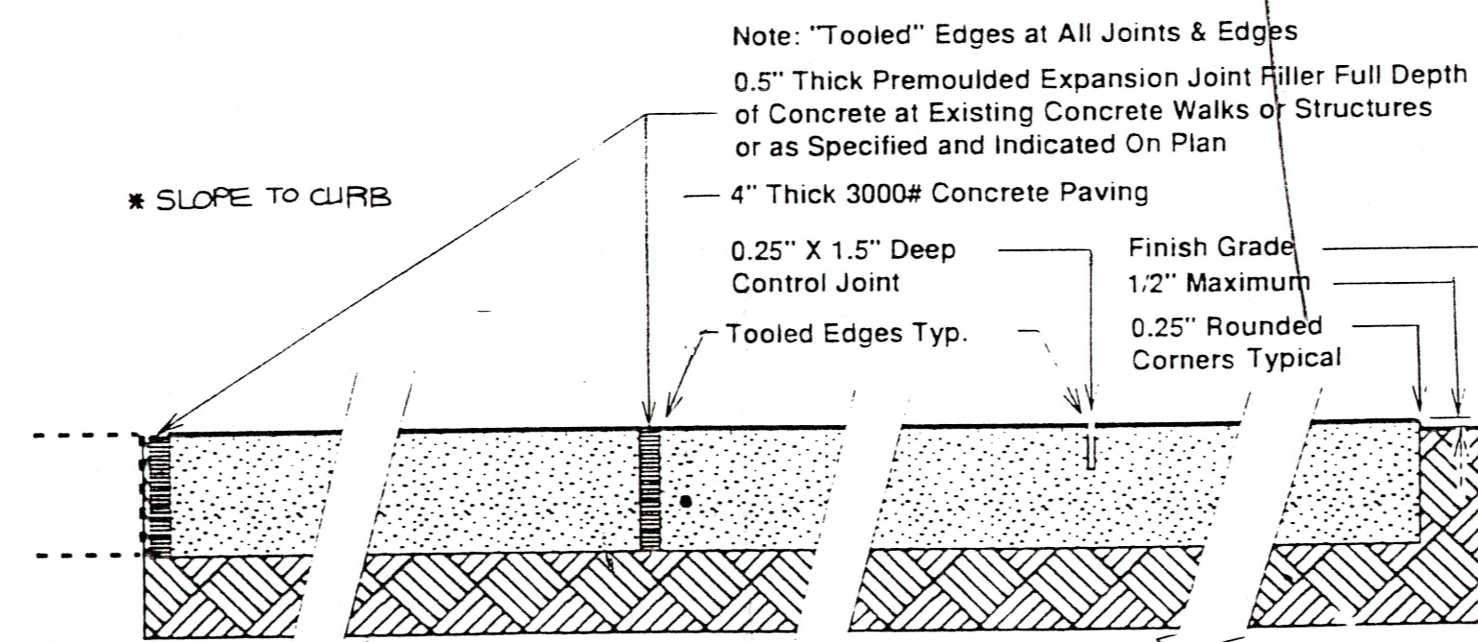
F. CONSTRUCTION FENCE
NO SCALE



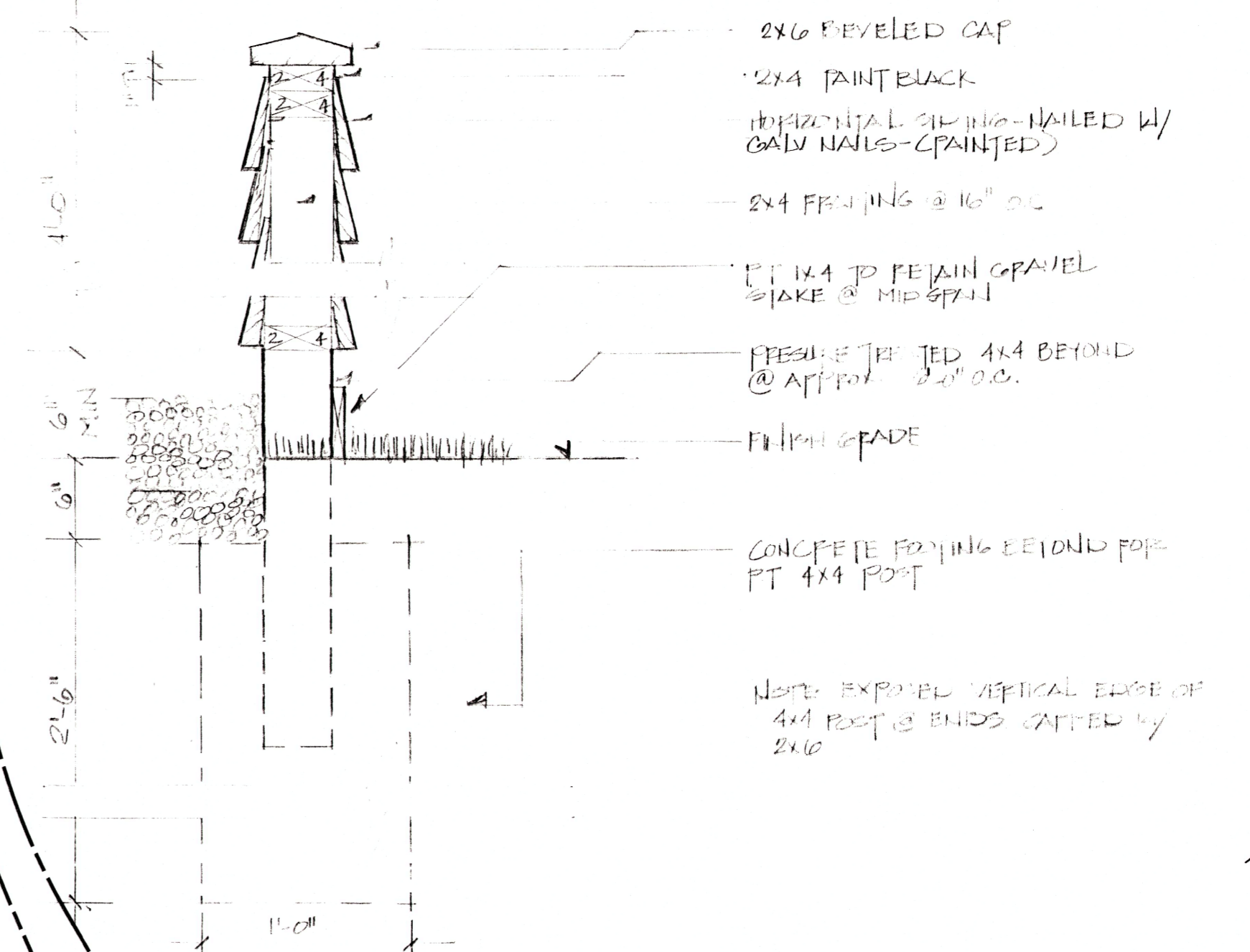
B. SECTION @ LOADING DOCK
SCALE 3/4"=1'-0"



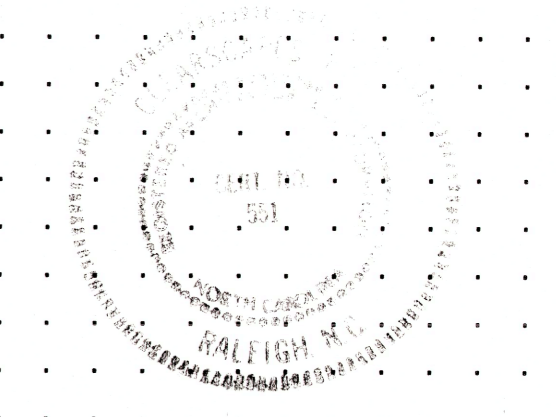
C. DETAIL OUTLET PROTECTION
NO SCALE



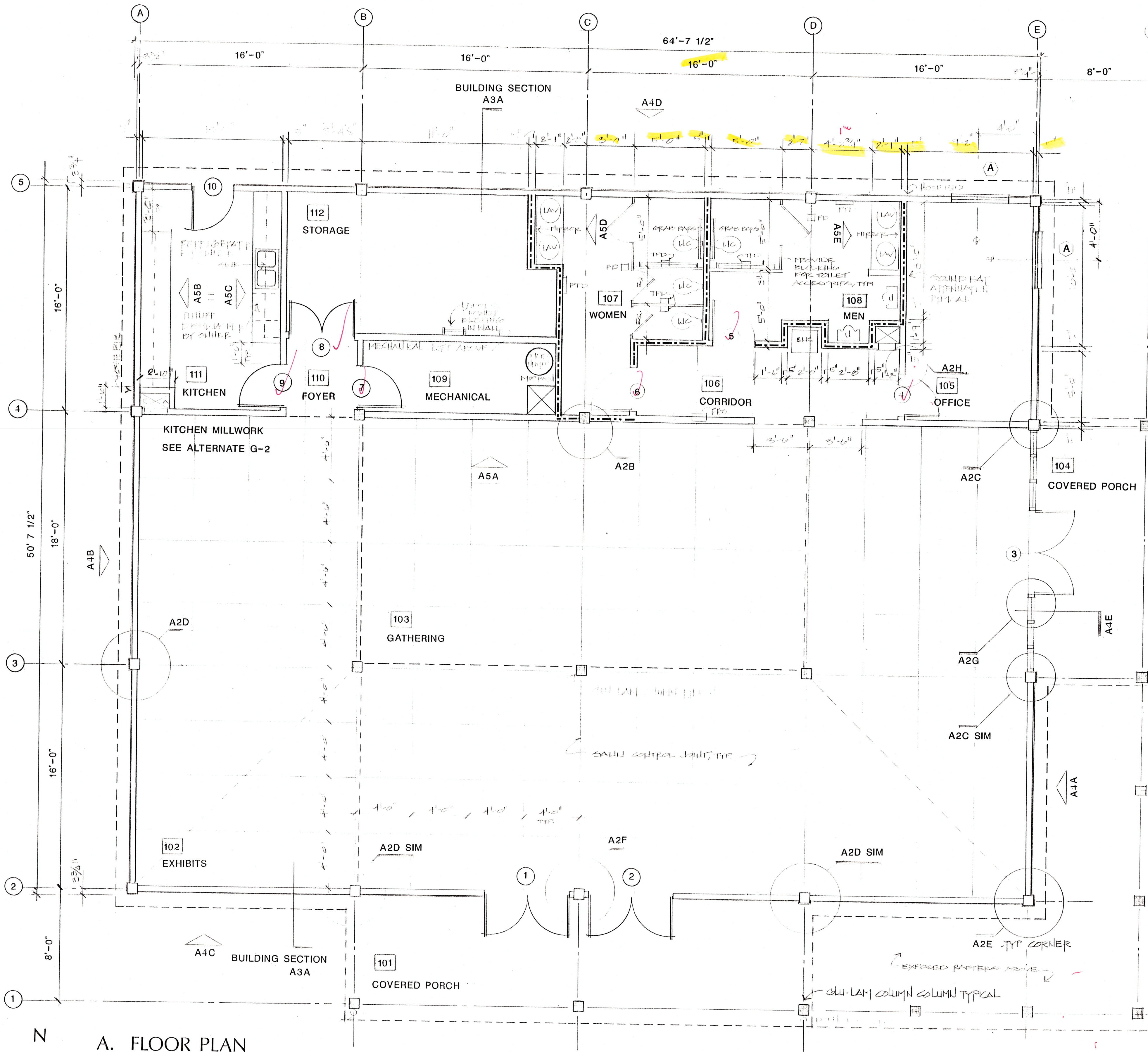
G. CONCRETE WALK
NO SCALE



D. SECTION @ FENCE
SCALE 1 1/2"=1'-0"

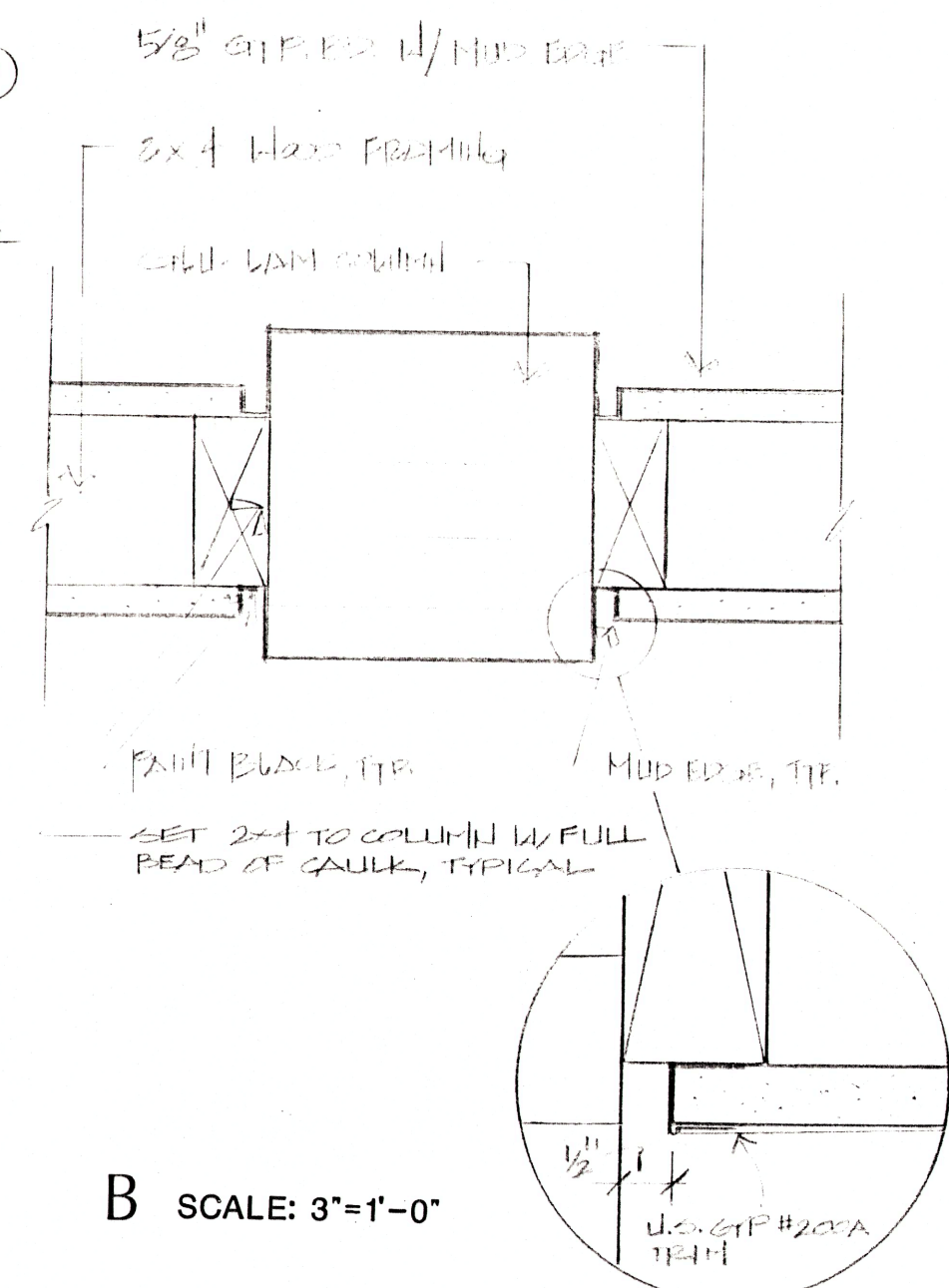


7.7.95

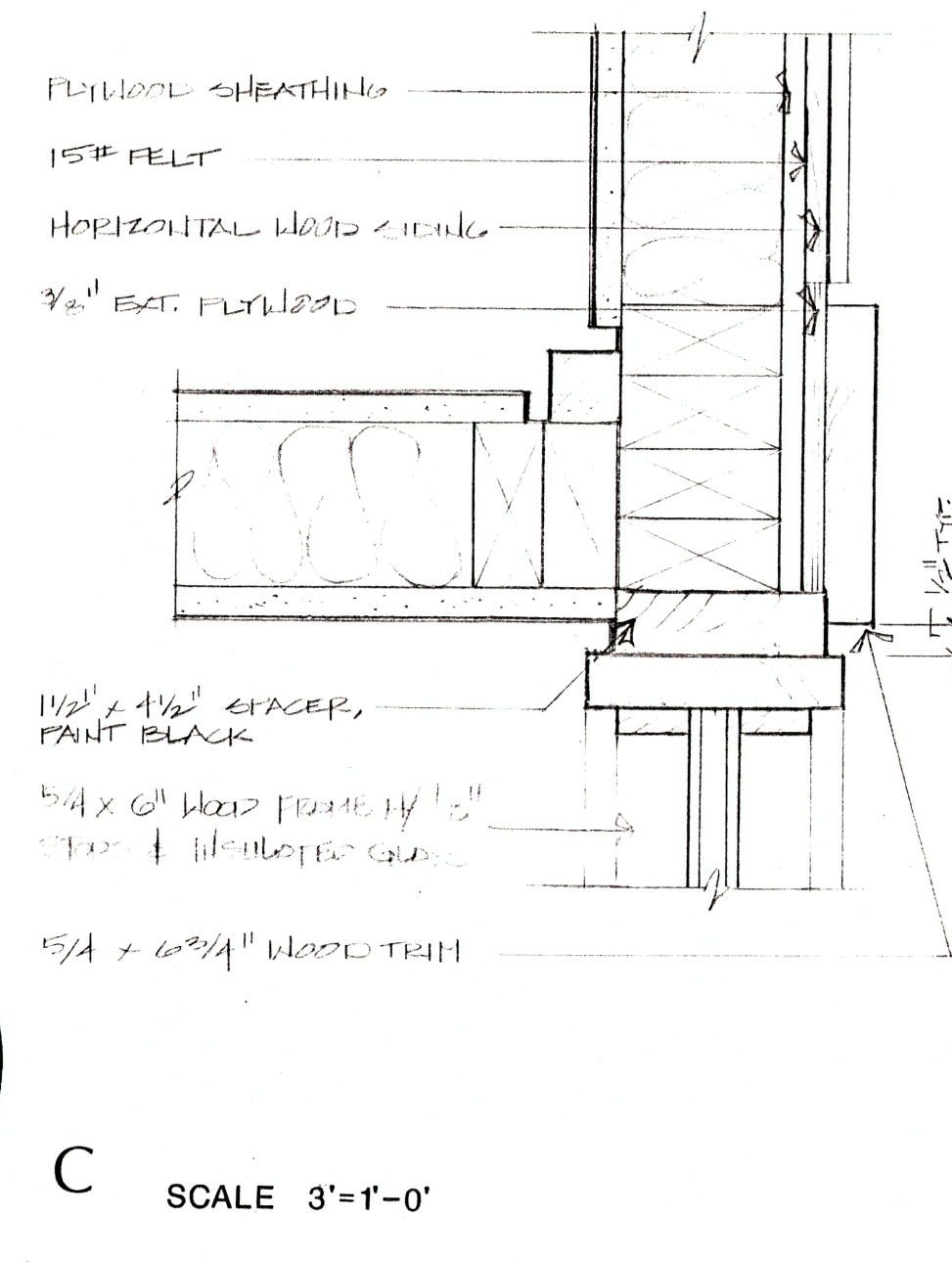


A. FLOOR PLAN

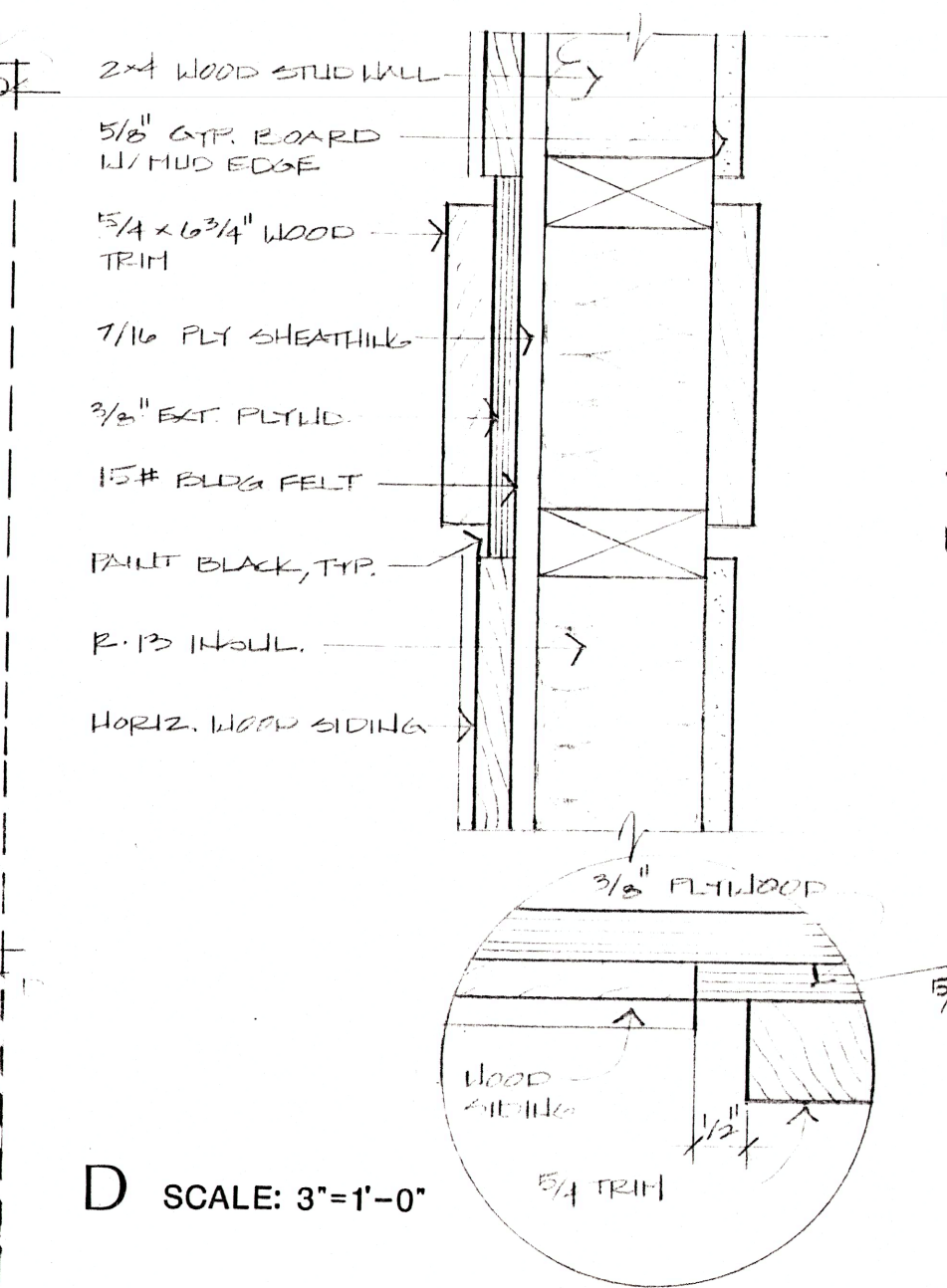
SCALE 1/4"=1'-0"



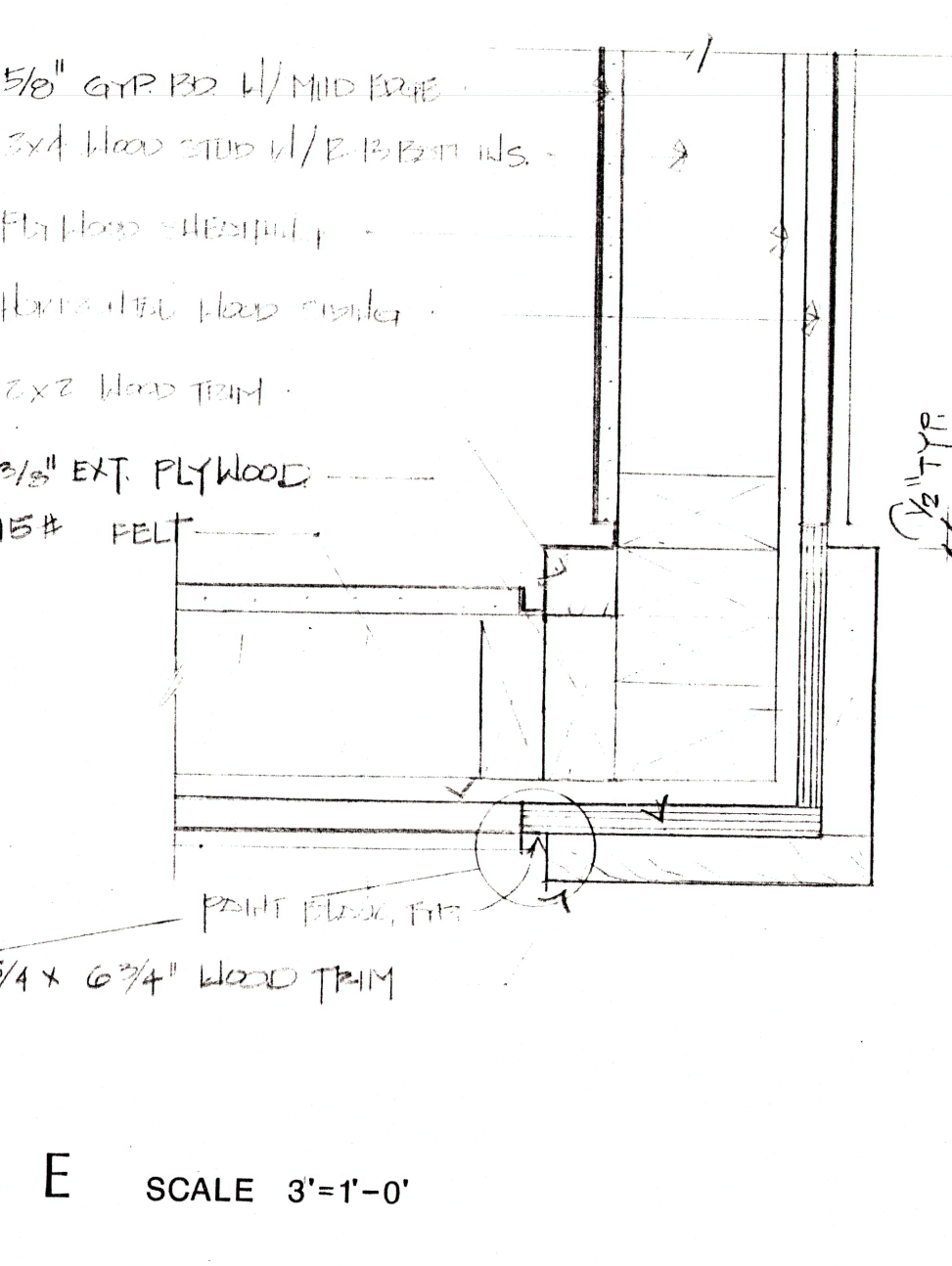
B SCALE: 3"=1'-0"



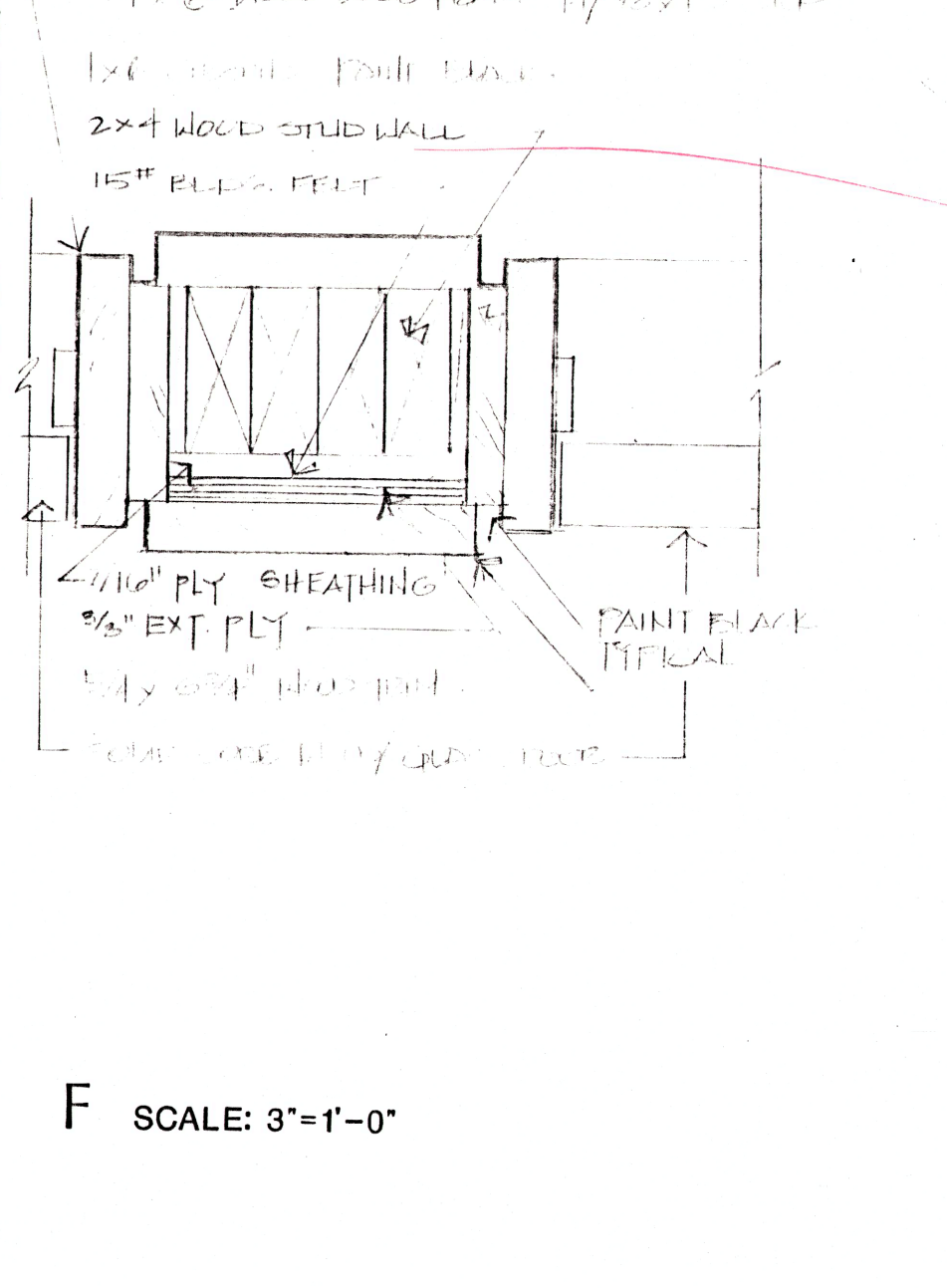
C SCALE 3"=1'-0"



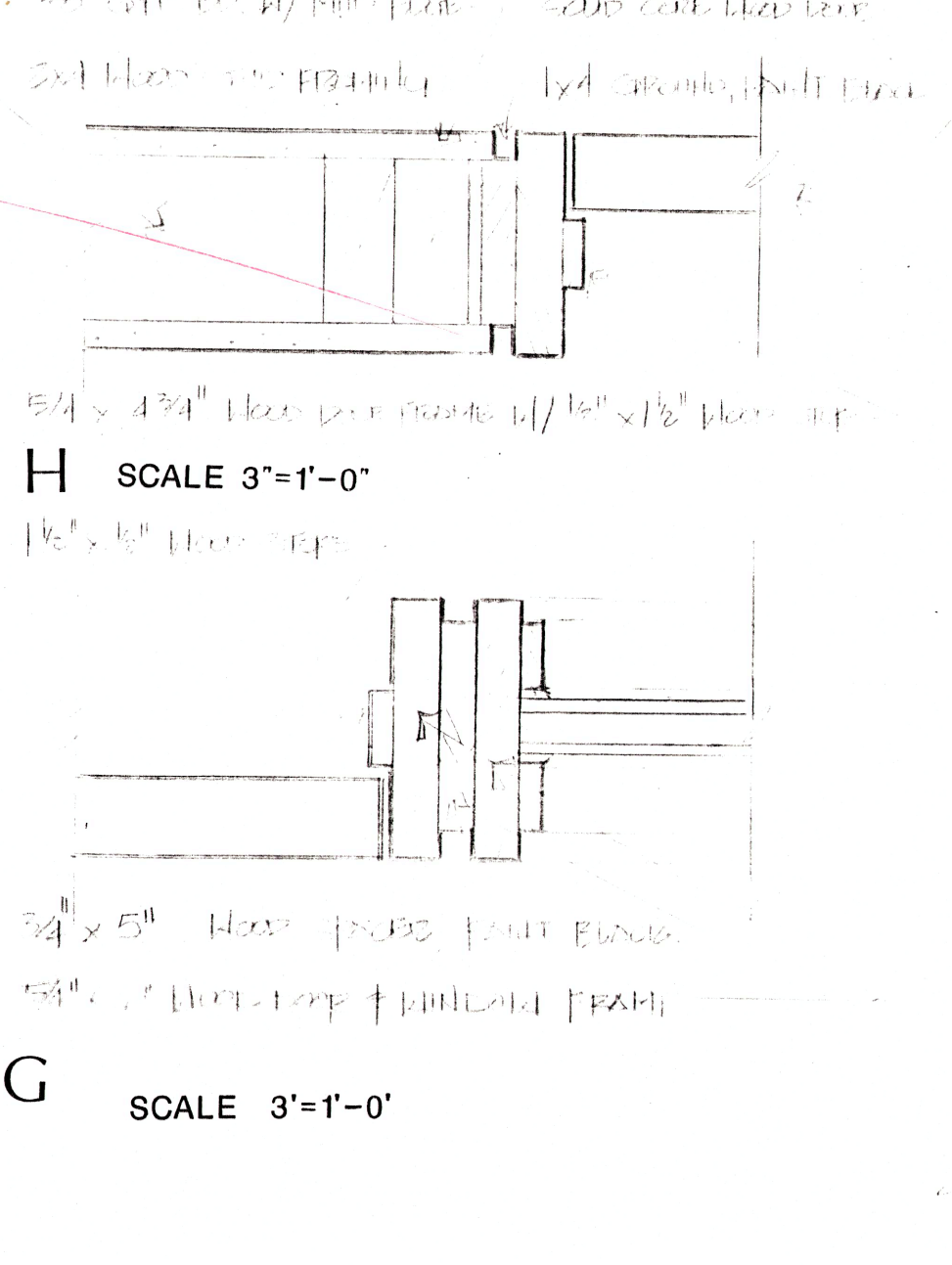
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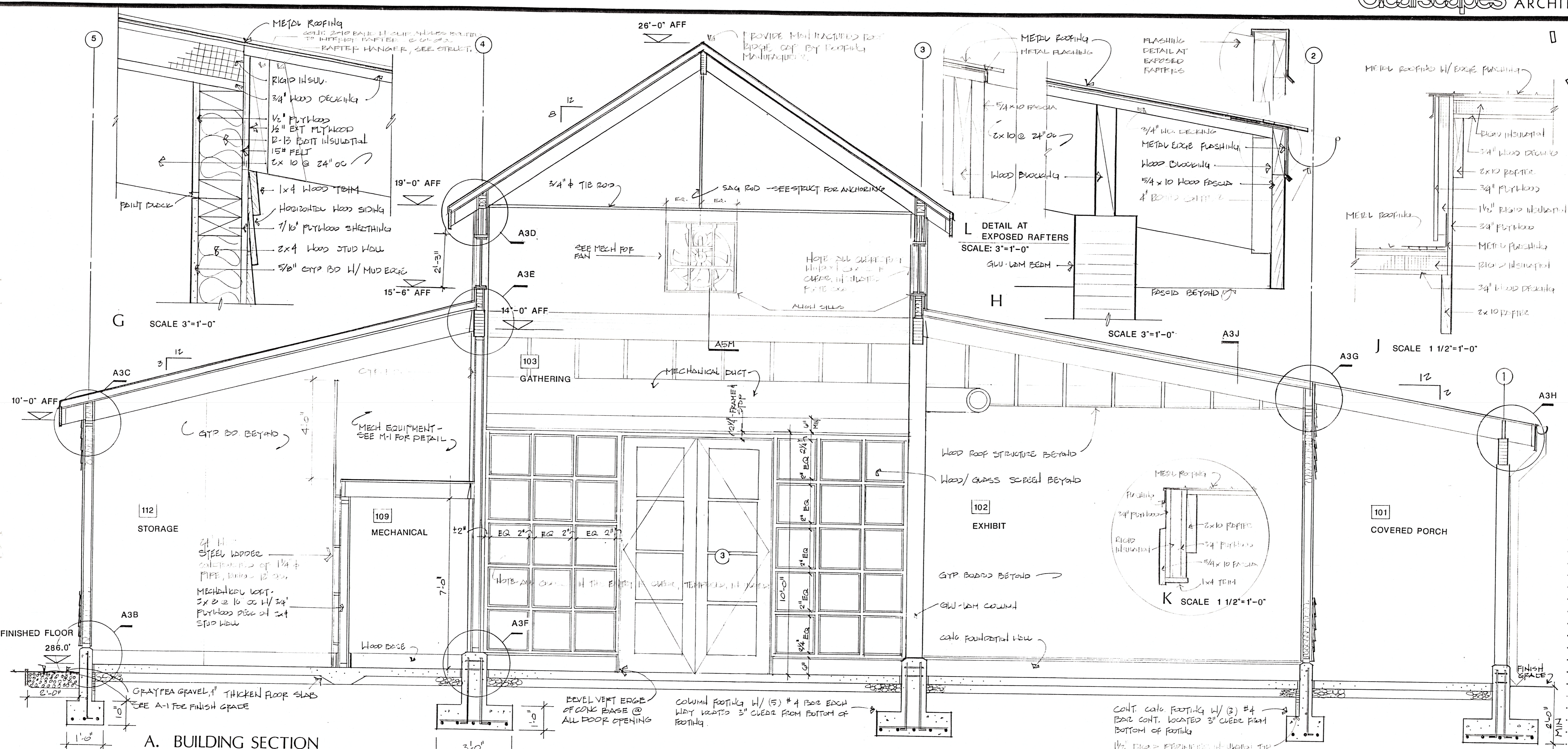
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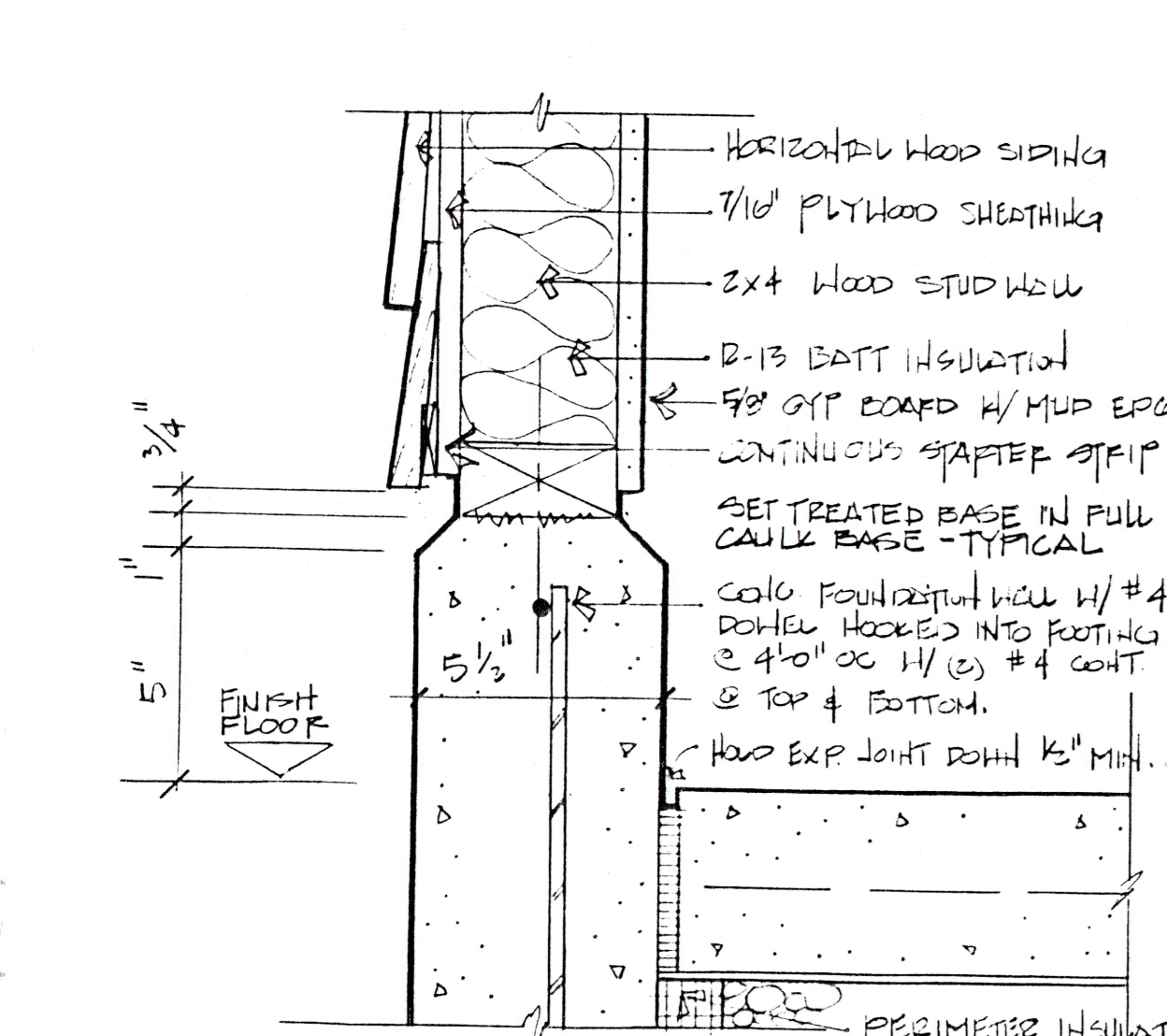
F SCALE: 3"=1'-0"



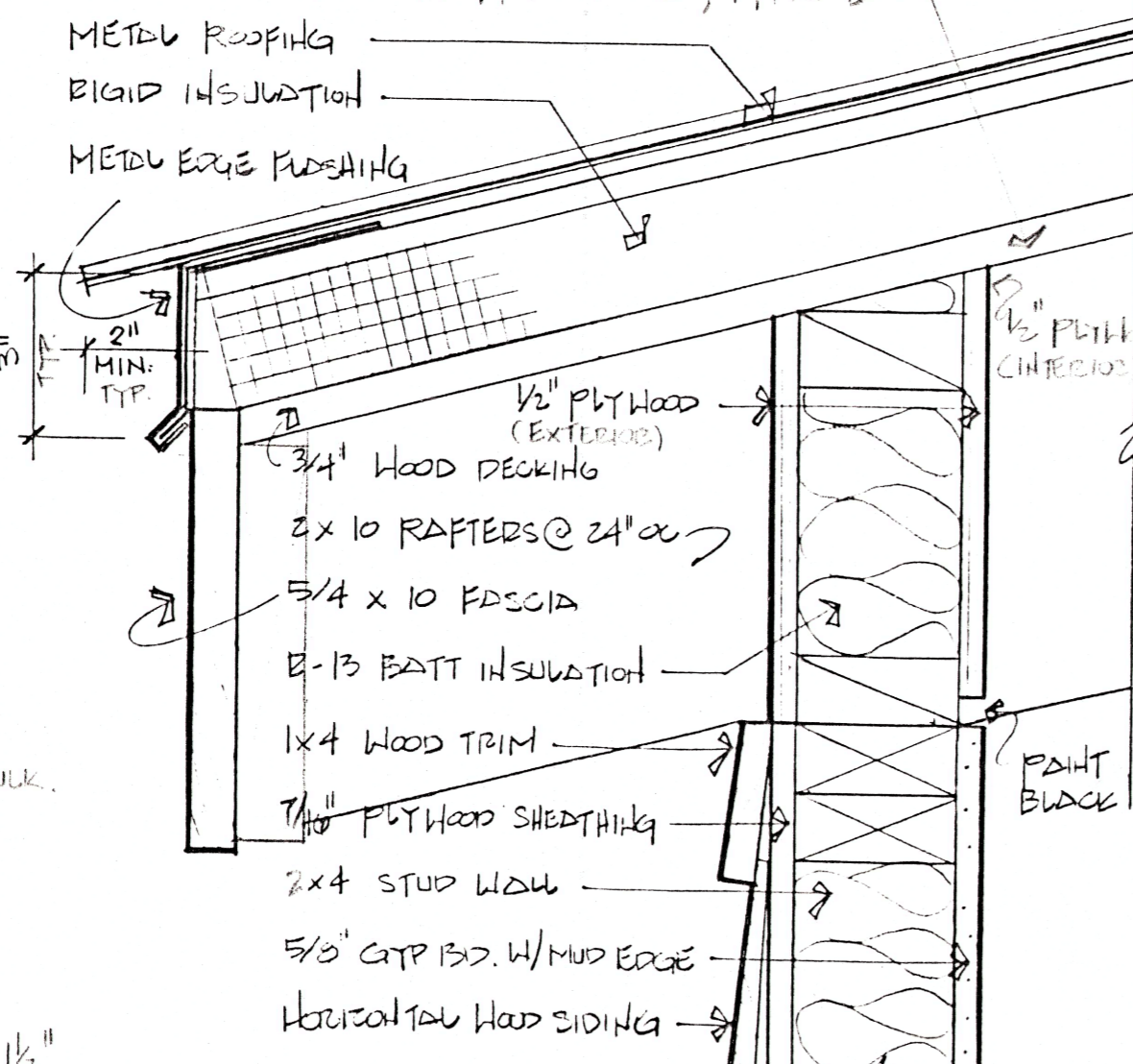
G SCALE 3"=1'-0"



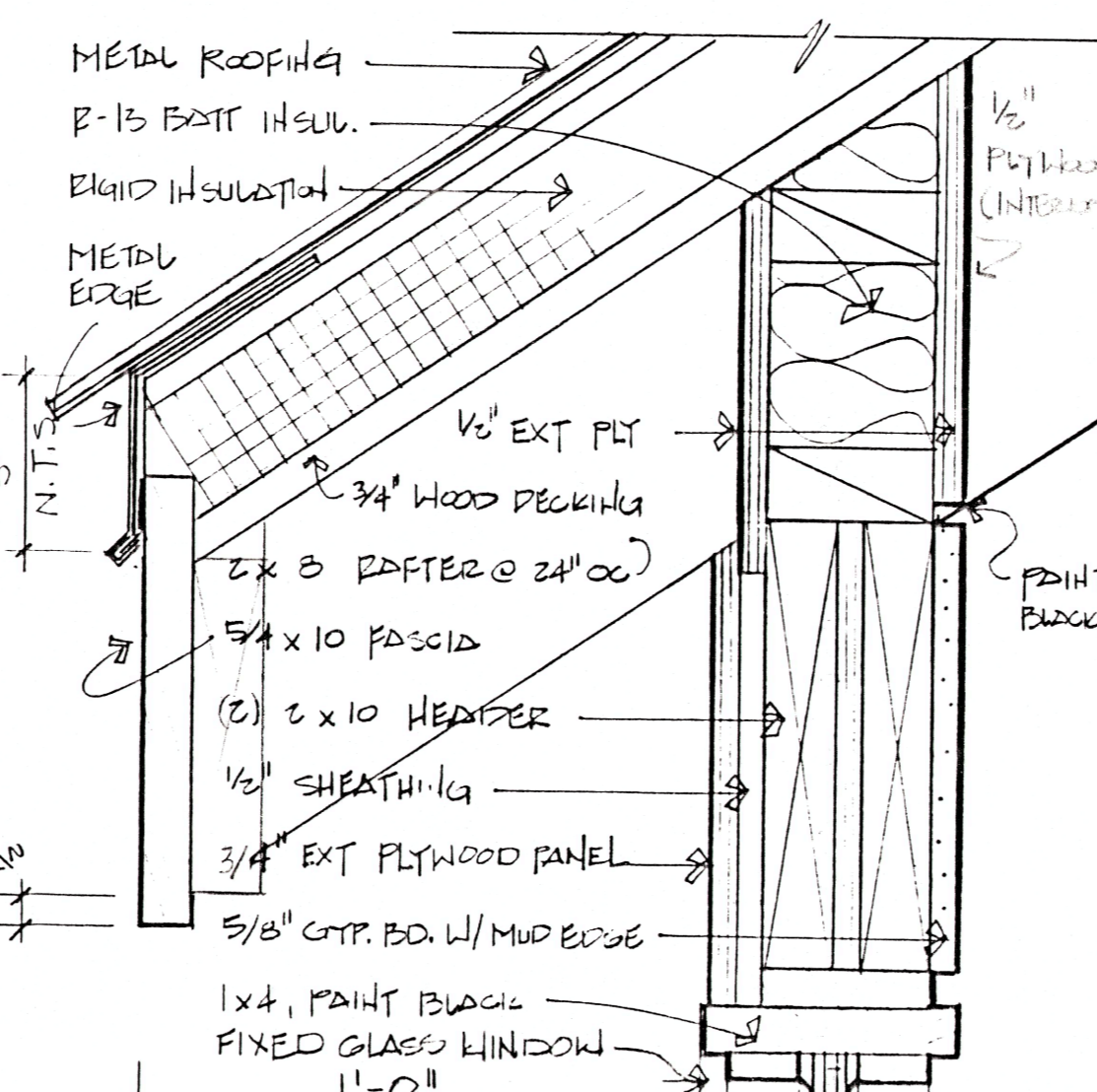
A. BUILDING SECTION
SCALE 1/2"=1'-0"



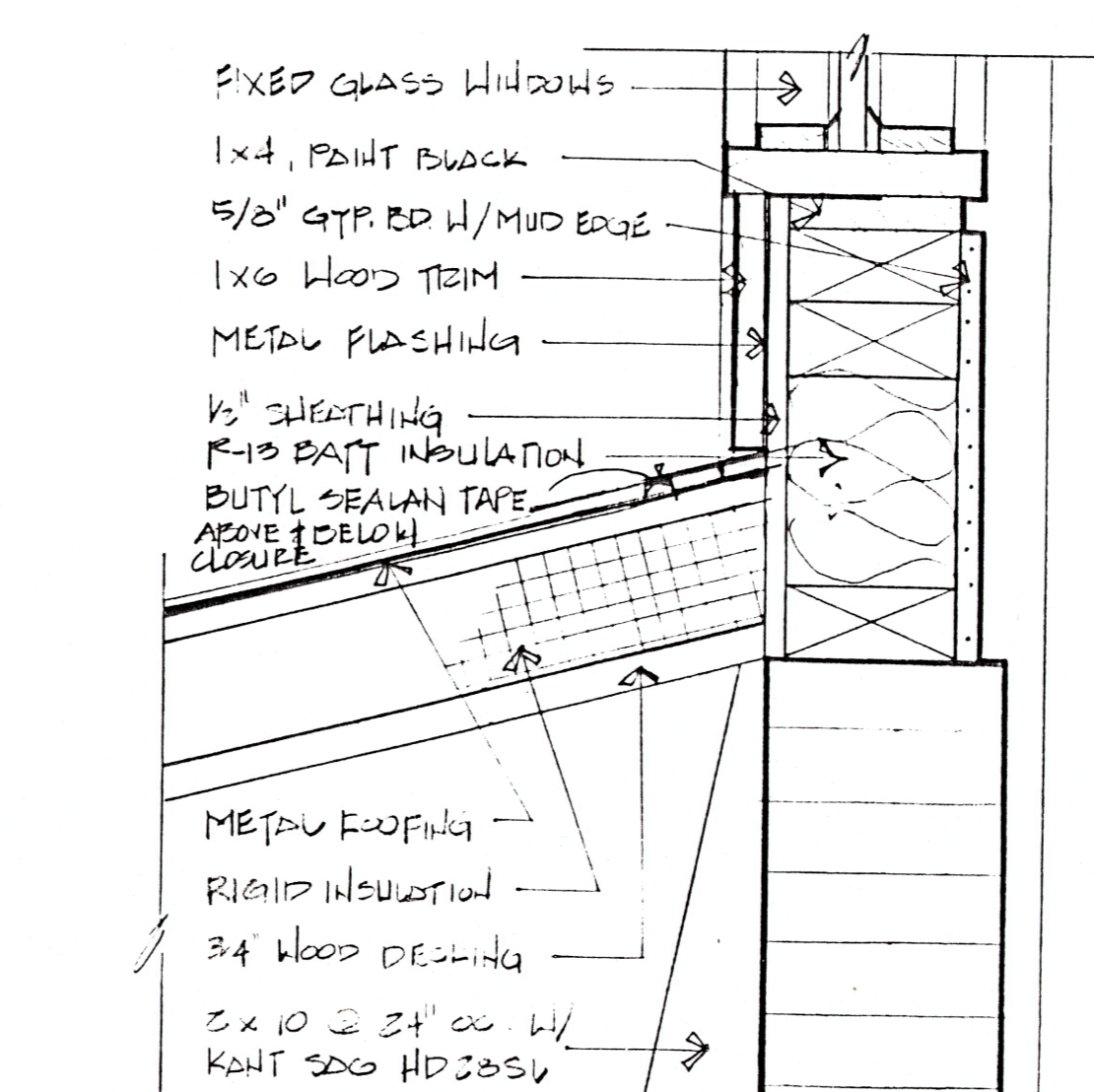
B SCALE 3"=1'-0" SEE ALTERNATE G-1



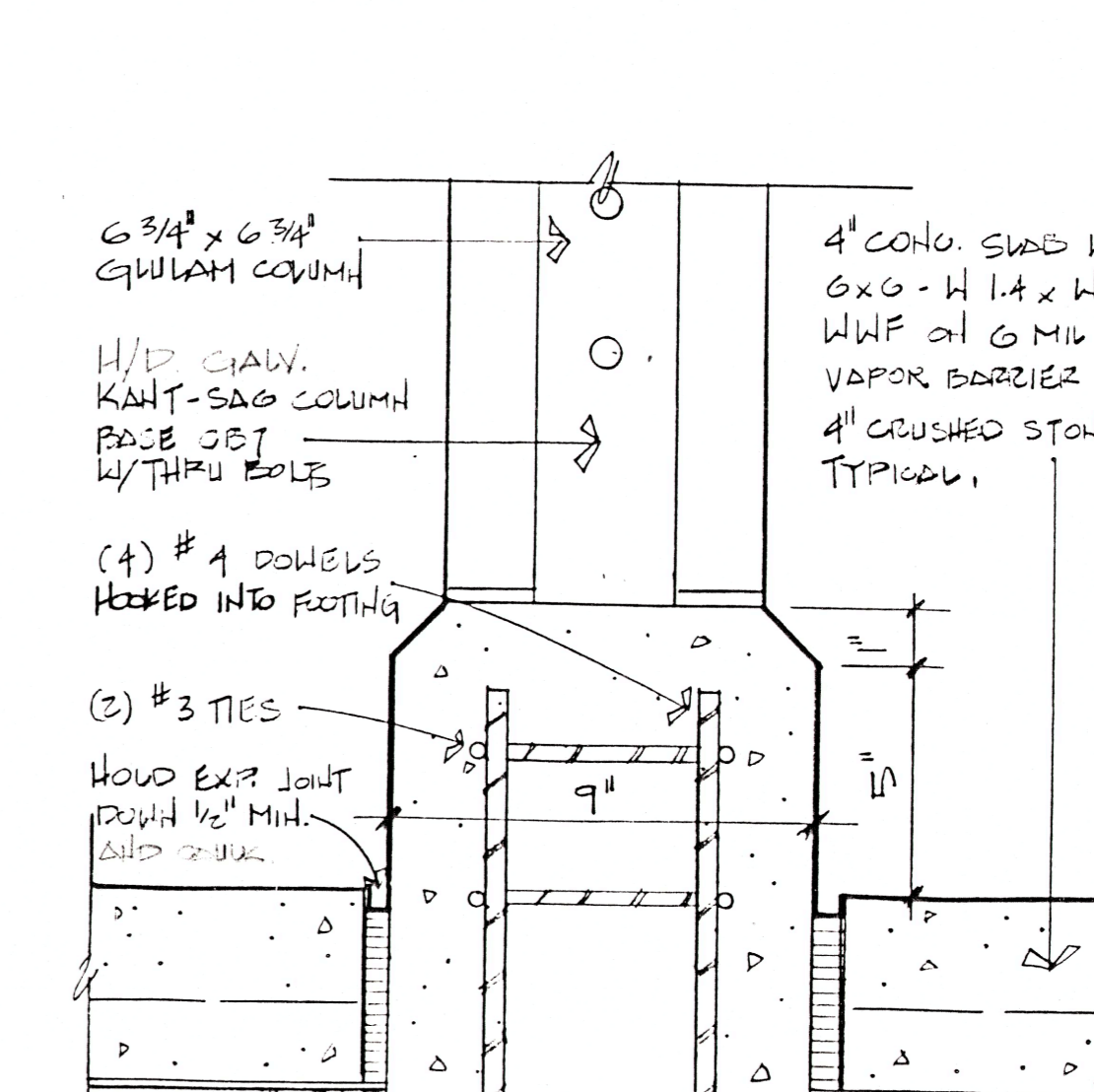
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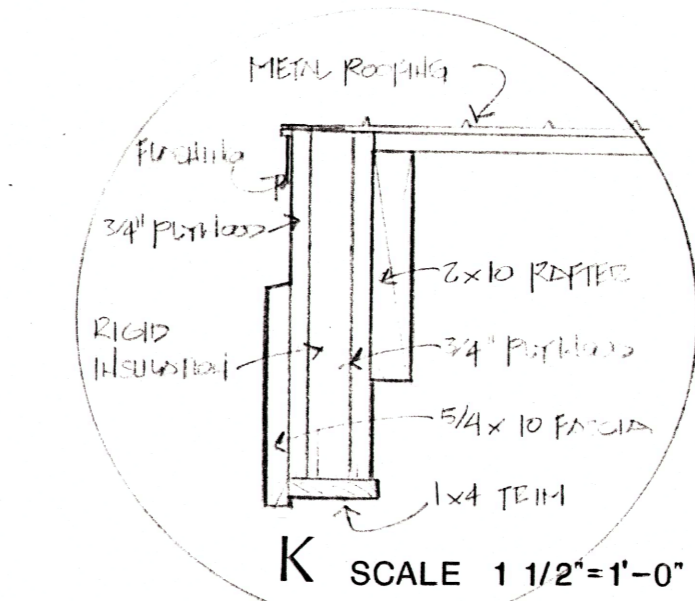
D SCALE 3"=1'-0"



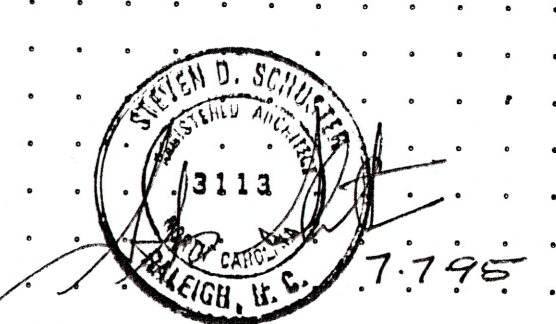
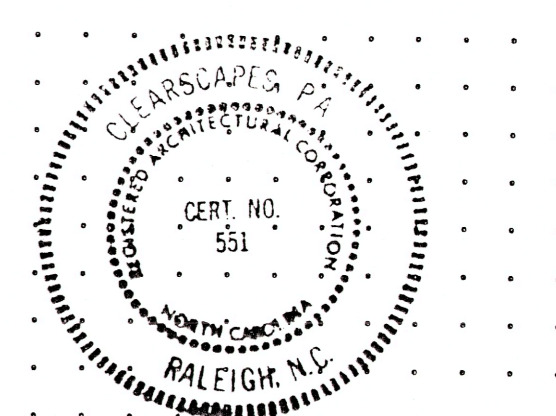
E SCALE 3"=1'-0"

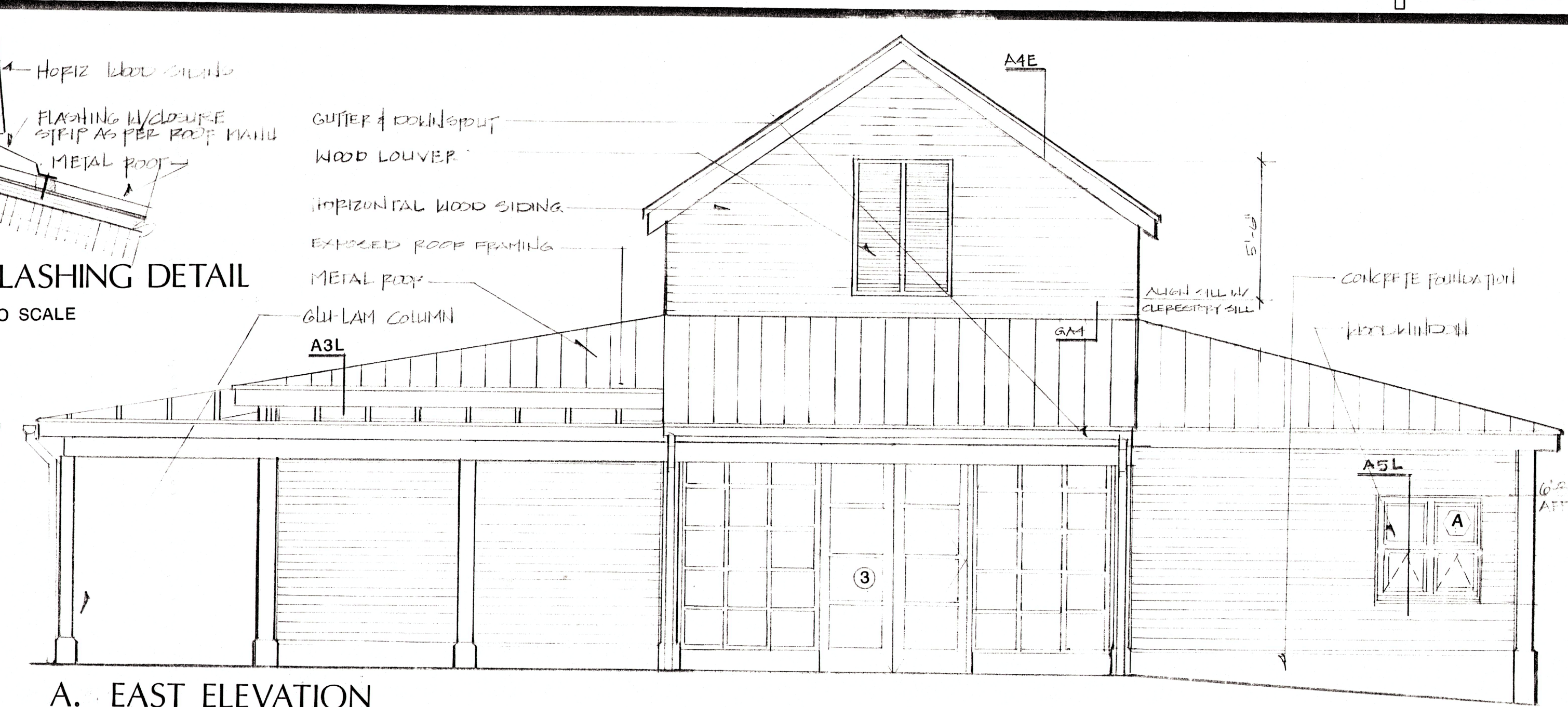
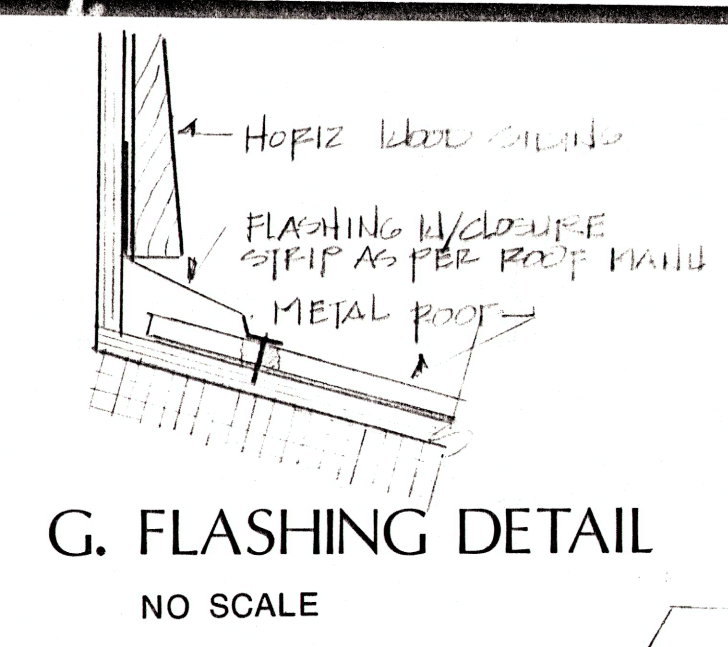
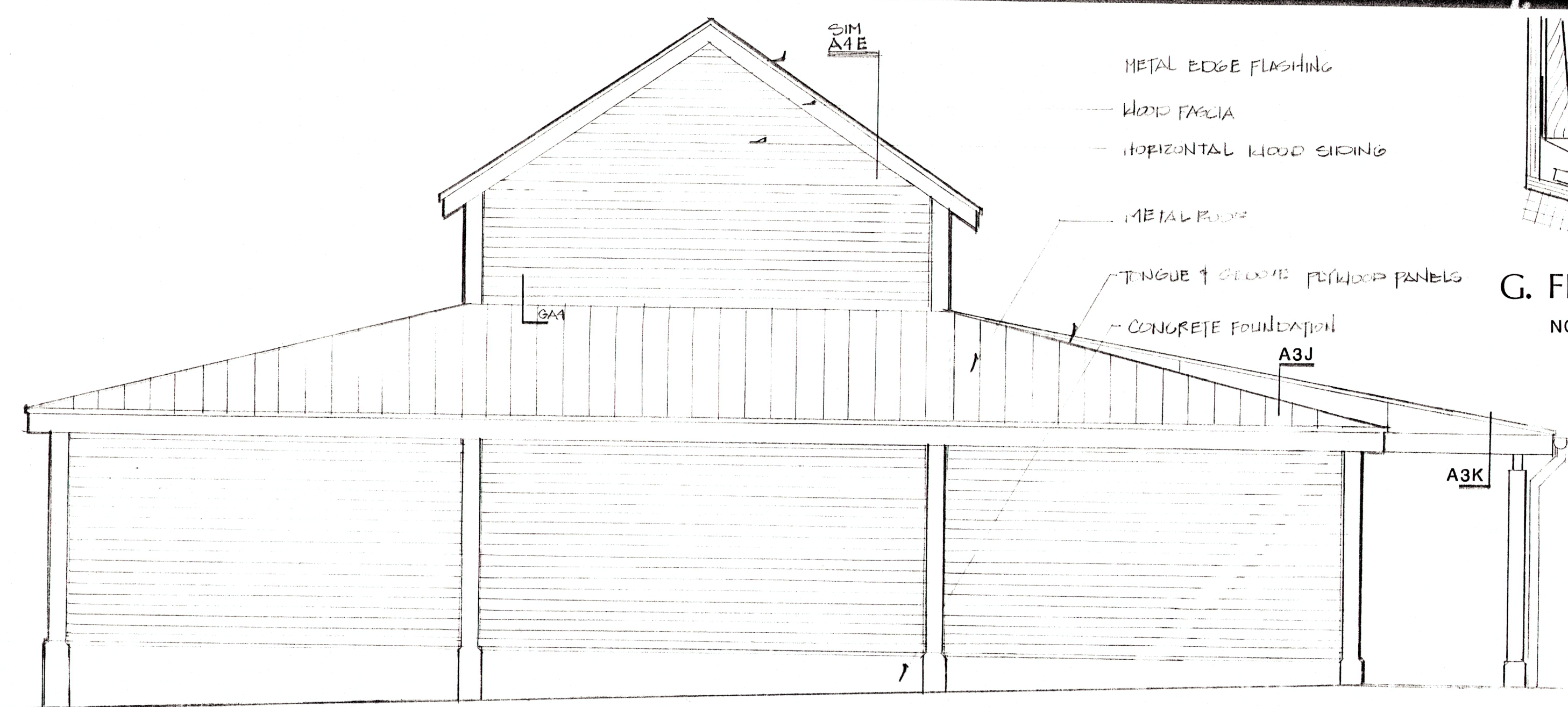


F SCALE 3"=1'-0" SEE ALTERNATE G-1



K SCALE 1 1/2"=1'-0"





B. WEST ELEVATION
SCALE 1/4"=1'-0"

Metal roofing w/ metal edge flashing
Wood insulation w/ horizontal control
24" Max depth
24" Max depth of exterior
1/2" plywood panel on ext. framing & base
1x4 trim on 1/2" sheathing
Horizontal exterior siding on ext. framing
2x4 cap on 1/2" max edge top & bottom
Metal fascia on 1/2" max edge
1/2" max depth w/ metal edge flashing
w/ closure as per manufacturer
24" Max depth

A. EAST ELEVATION
SCALE 1/4"=1'-0"

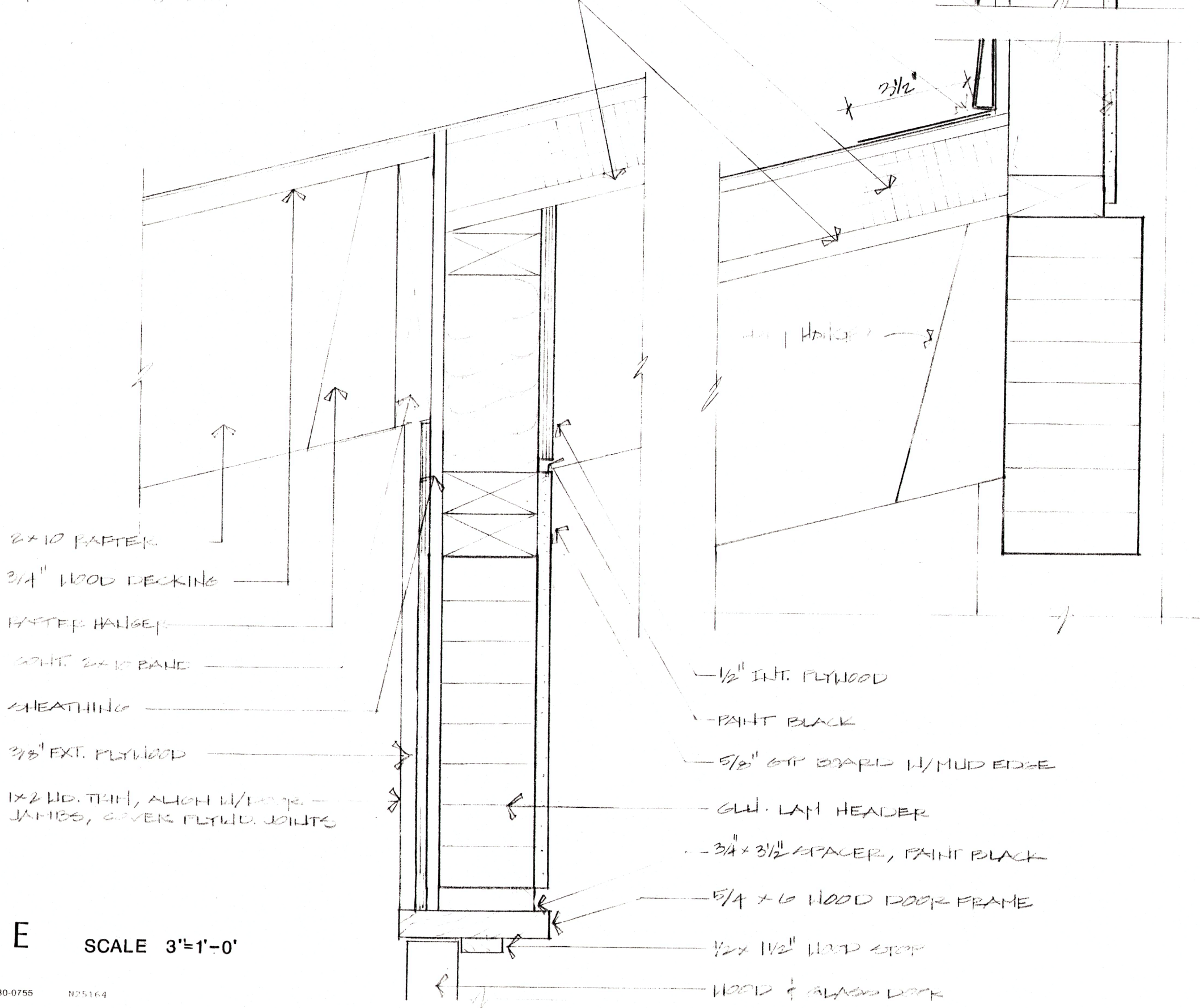


C. SOUTH ELEVATION
SCALE 1/4"=1'-0"

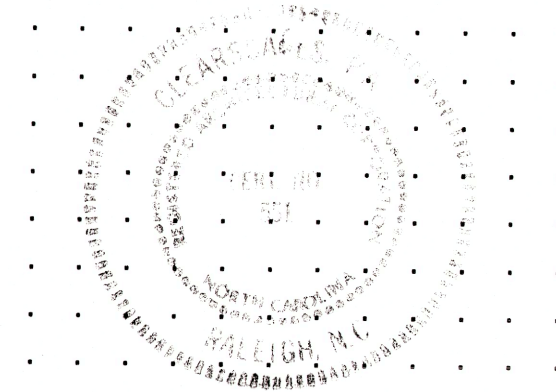
MECH VENTS LOCATED
BEHIND FACIA IN EAVE
TRIM - SEE MECHANICAL
DRAWING FOR LOCATIONS



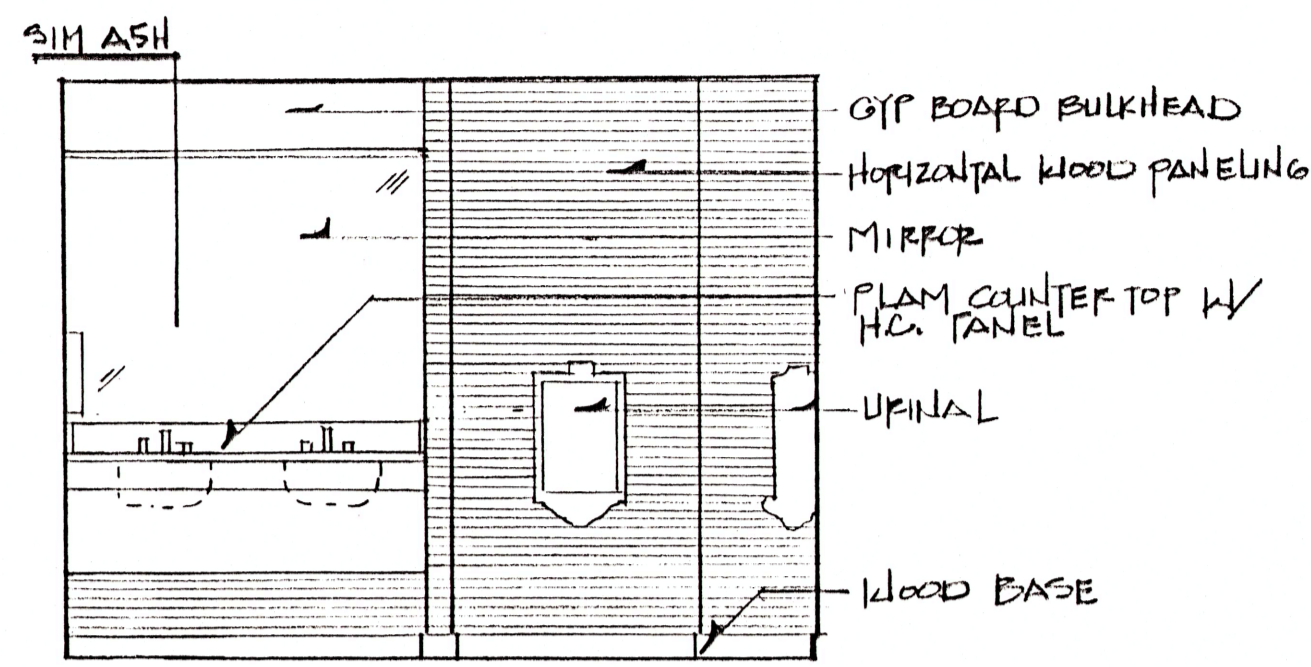
D. NORTH ELEVATION SCALE 1/4"=1'-0"



E SCALE 3"=1'-0"

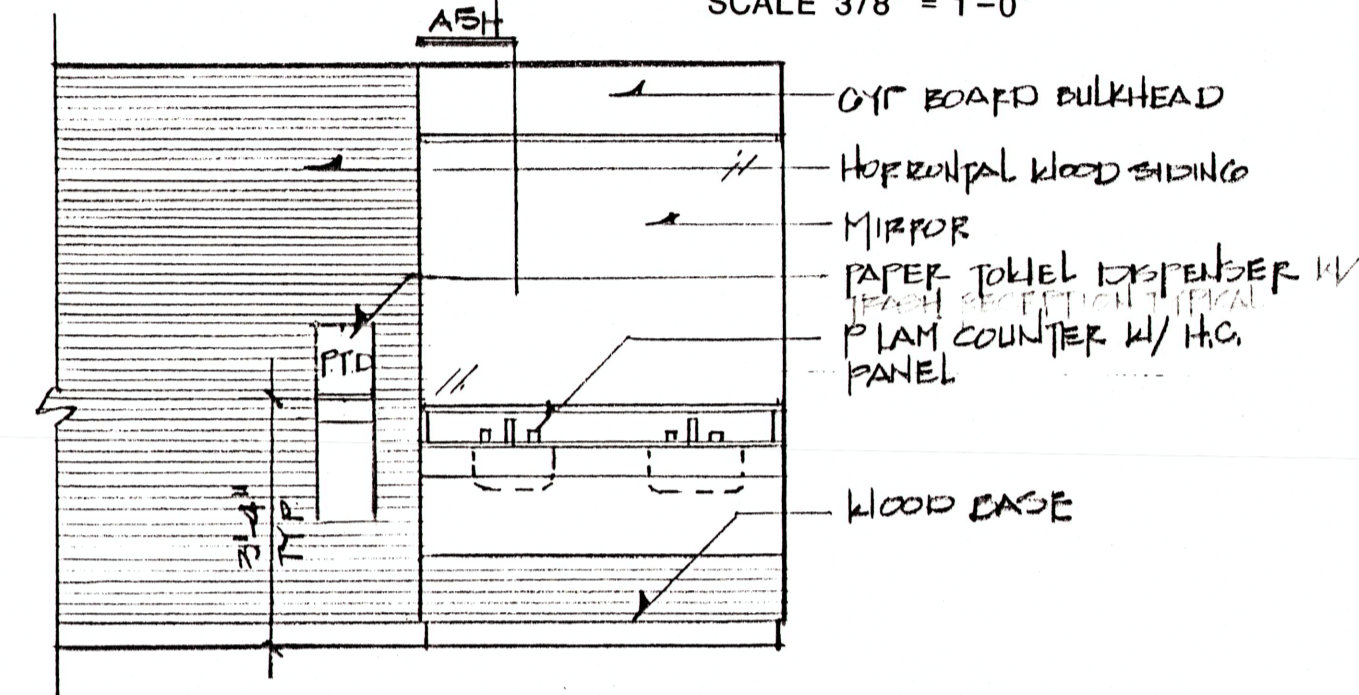


7-7-95



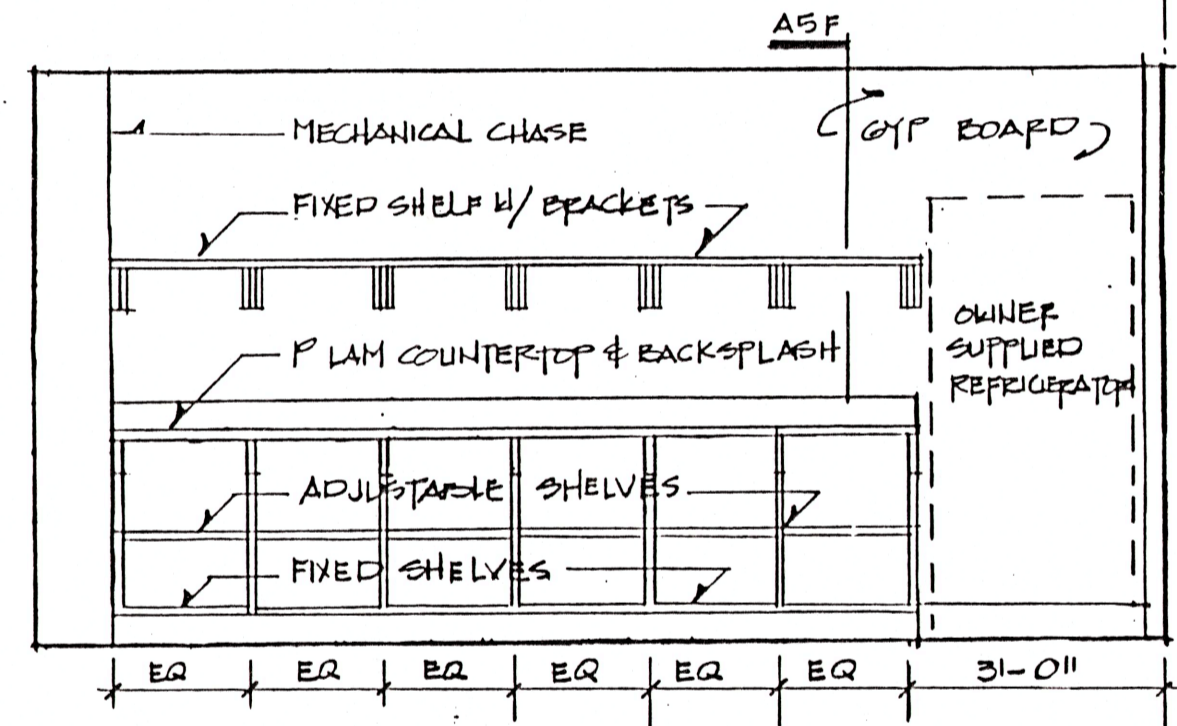
E. MEN'S ROOM ELEVATION

SCALE 3/8" = 1'-0"



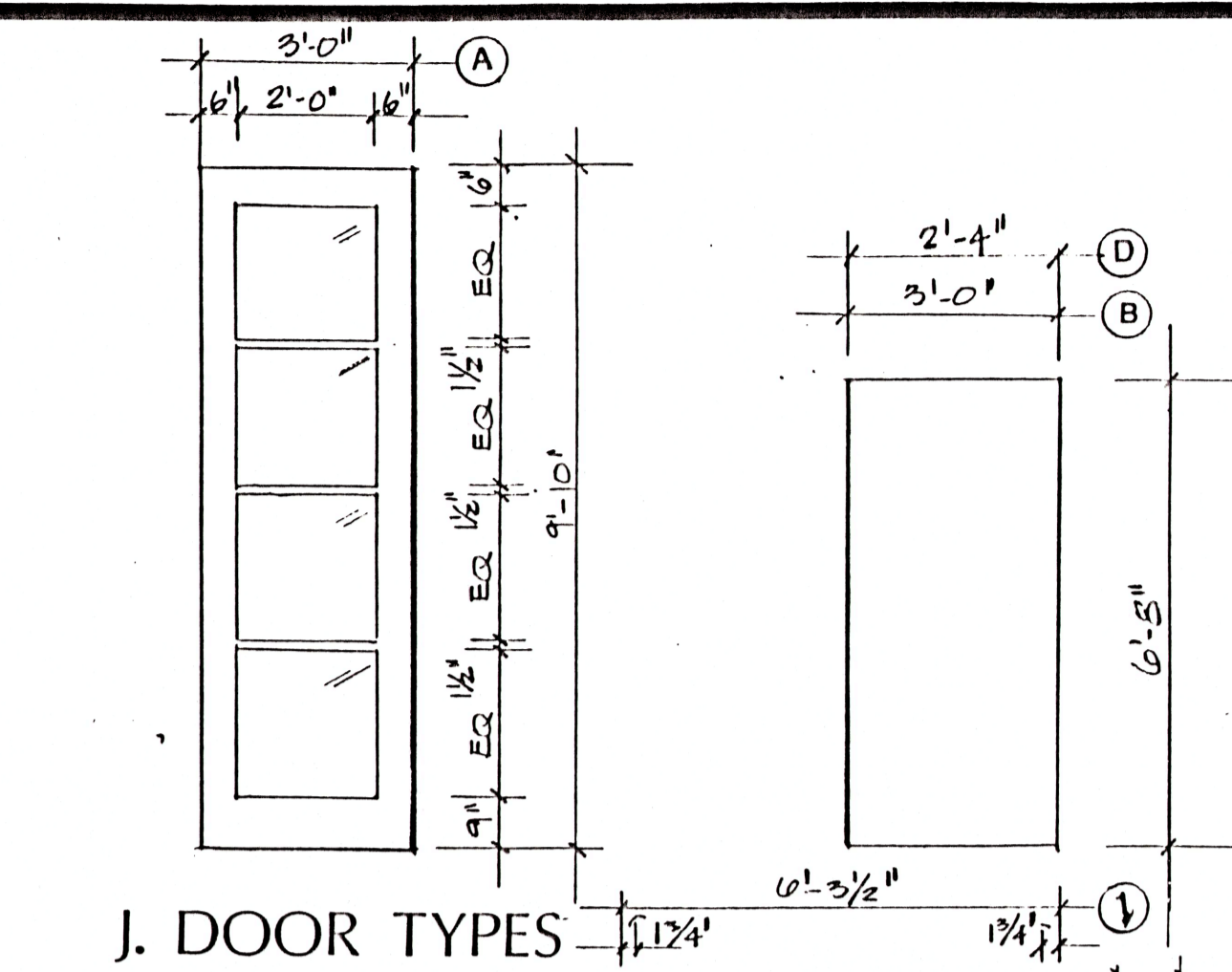
D. WOMEN'S ROOM ELEVATION

SCALE 3/8" = 1'-0"



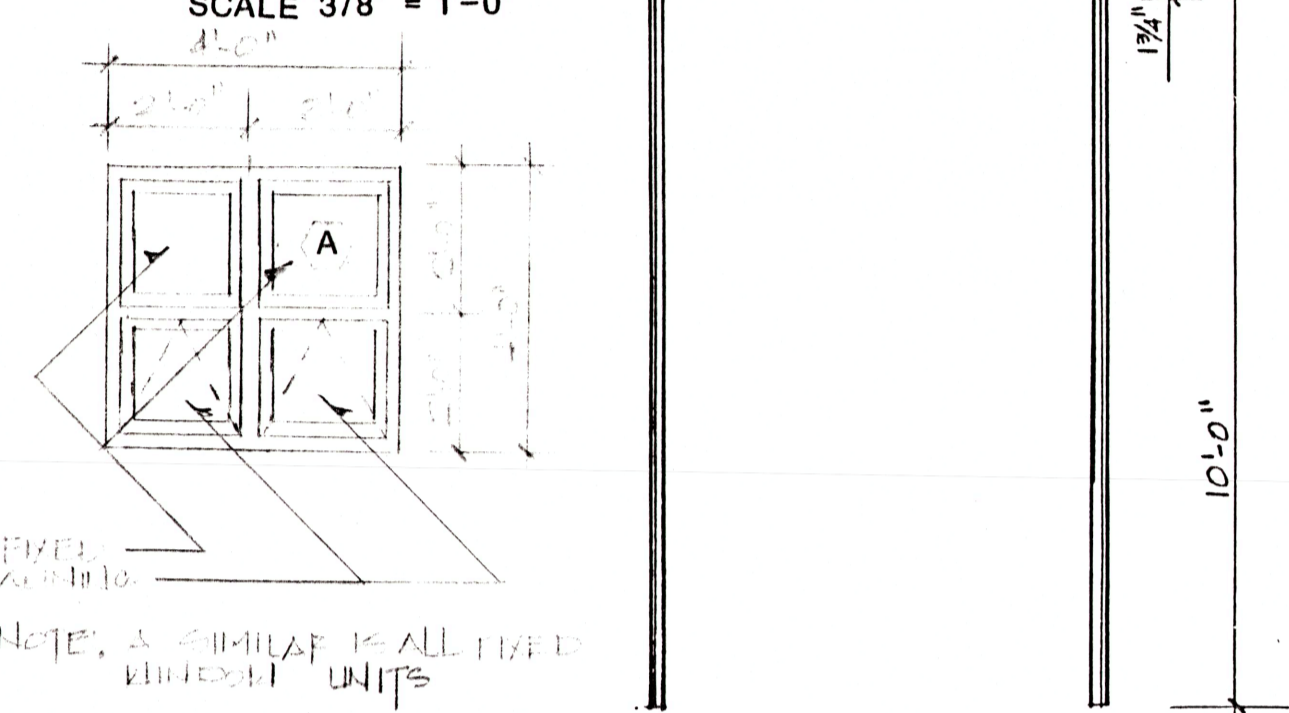
B. KITCHEN ELEVATION

SCALE 3/8" = 1'-0"



J. DOOR TYPES

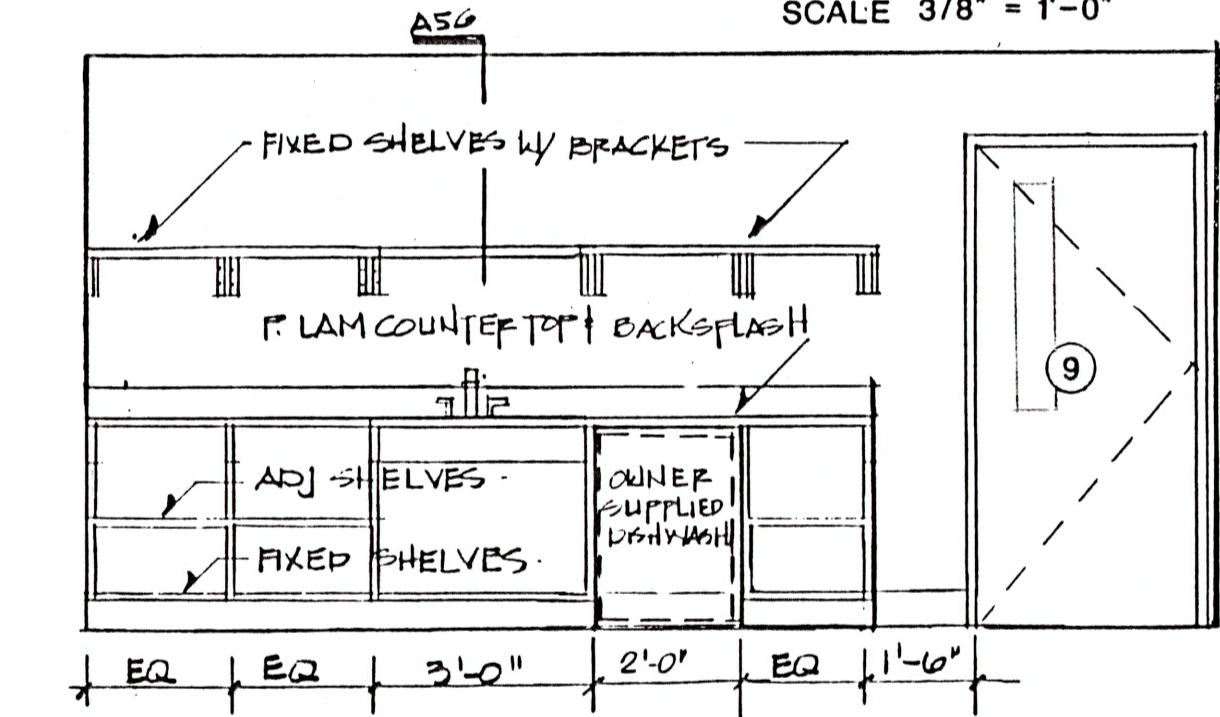
SCALE 3/8" = 1'-0"



K. DOOR FRAME TYPES

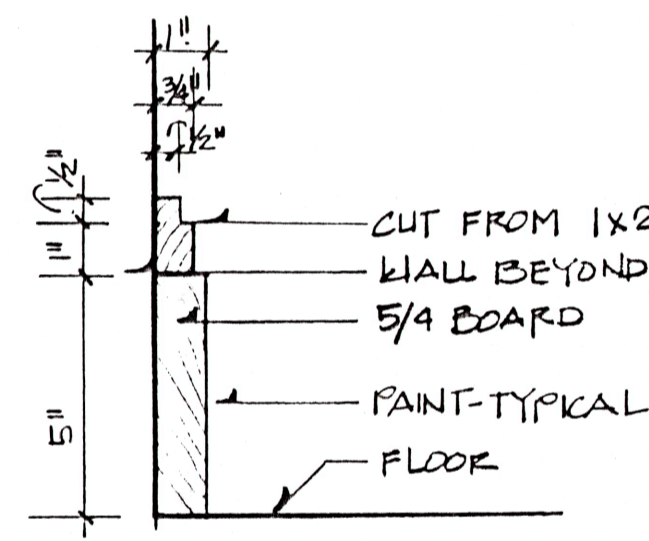
P. WINDOW

SCALE 3/8" = 1'-0"



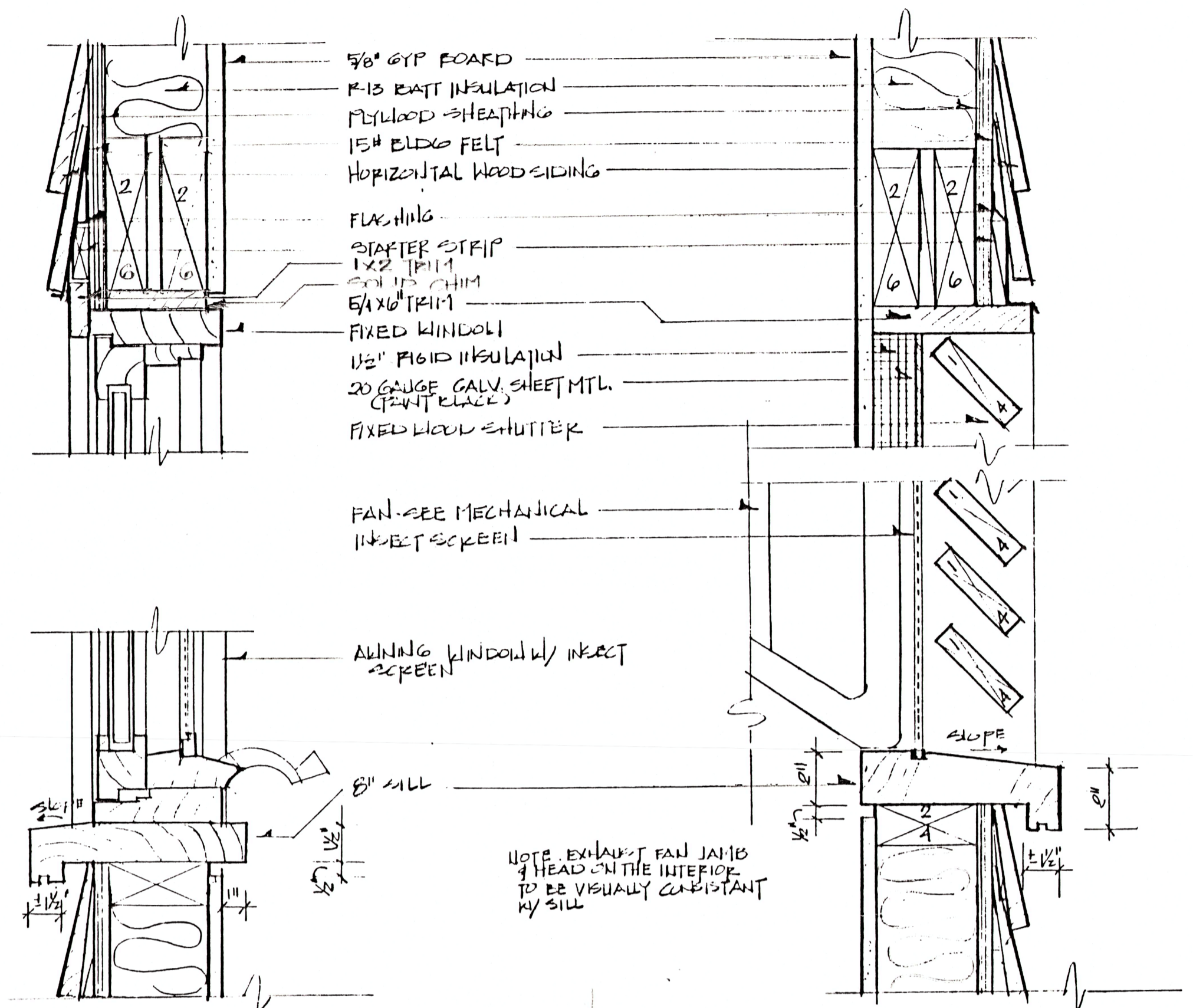
C. KITCHEN ELEVATION

SCALE 3/8" = 1'-0"



N. WOOD BASE

SCALE 3" = 1'-0"



L. WINDOW SECTION

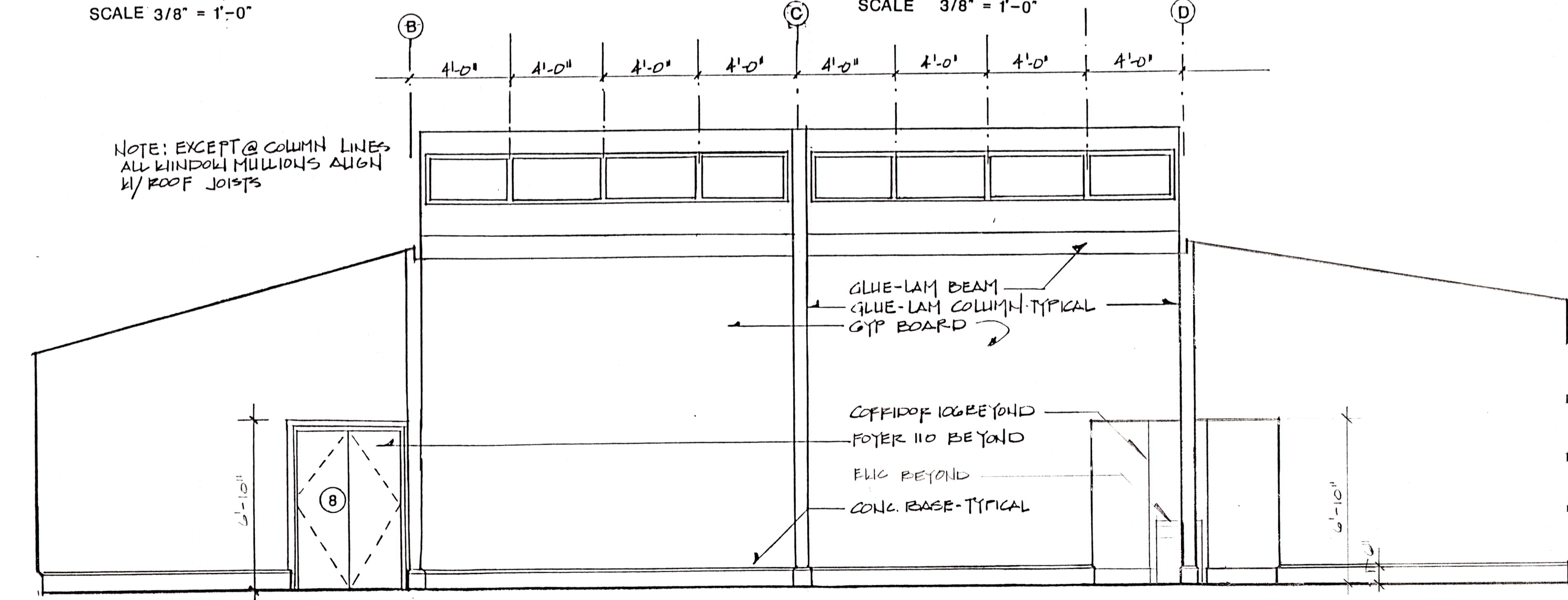
SCALE 3" = 1'-0"

M. LOUVER SECTION

SCALE 3" = 1'-0"

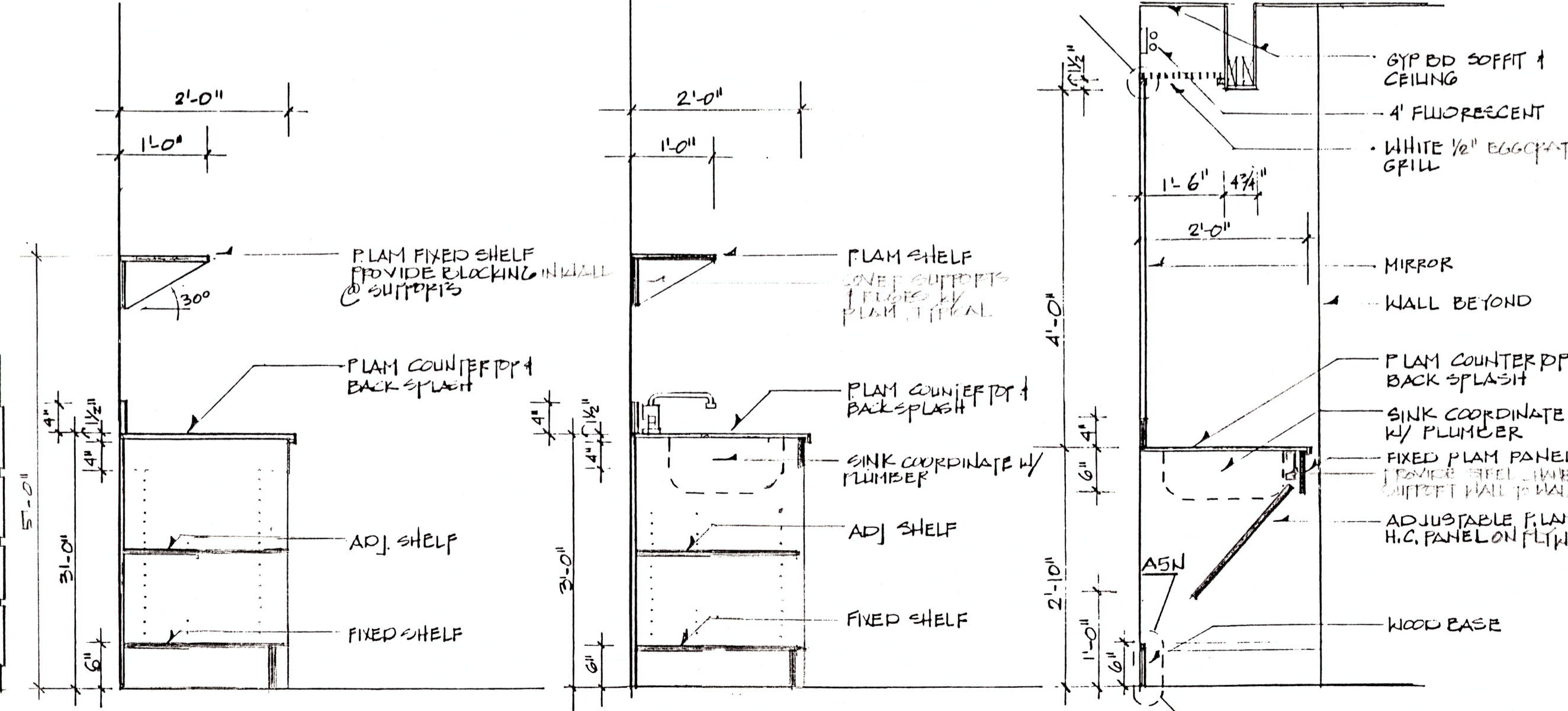
N. JAMB DETAIL

SCALE 3" = 1'-0"



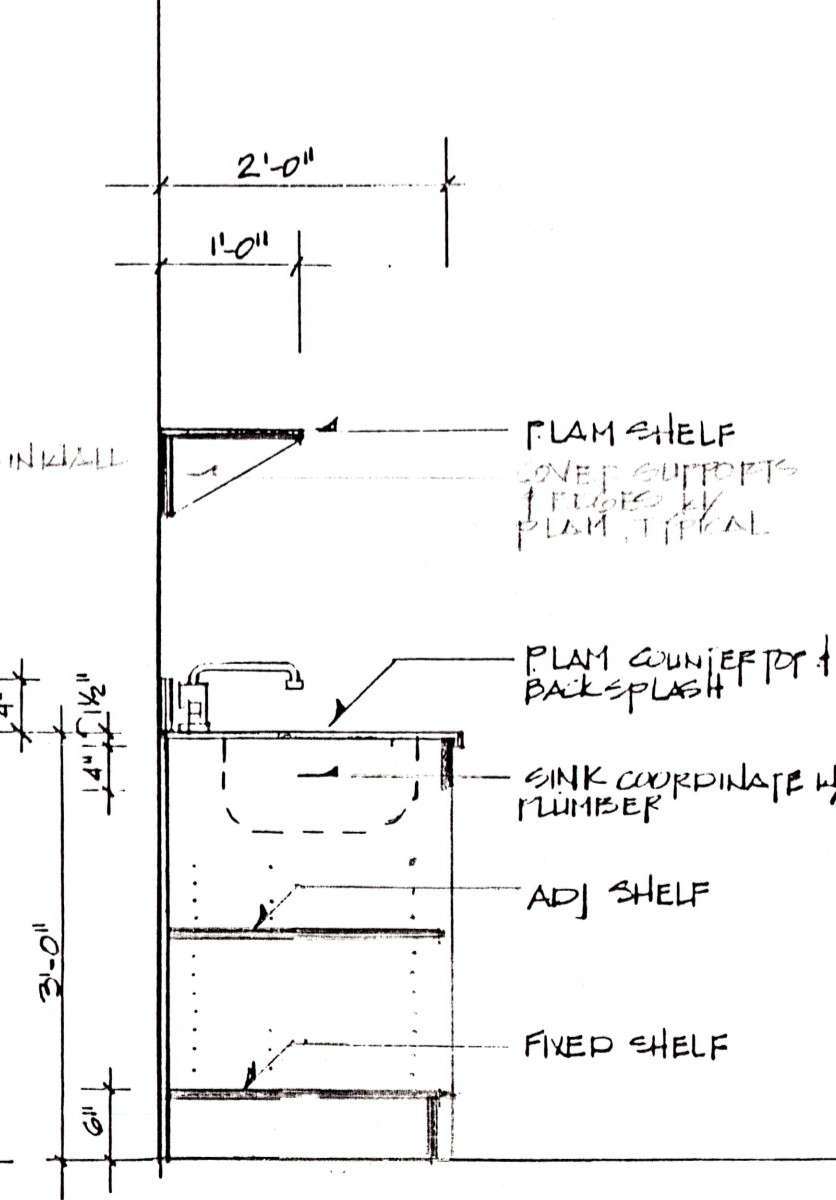
A. INTERIOR ELEVATION

SCALE 1/4" = 1'-0"



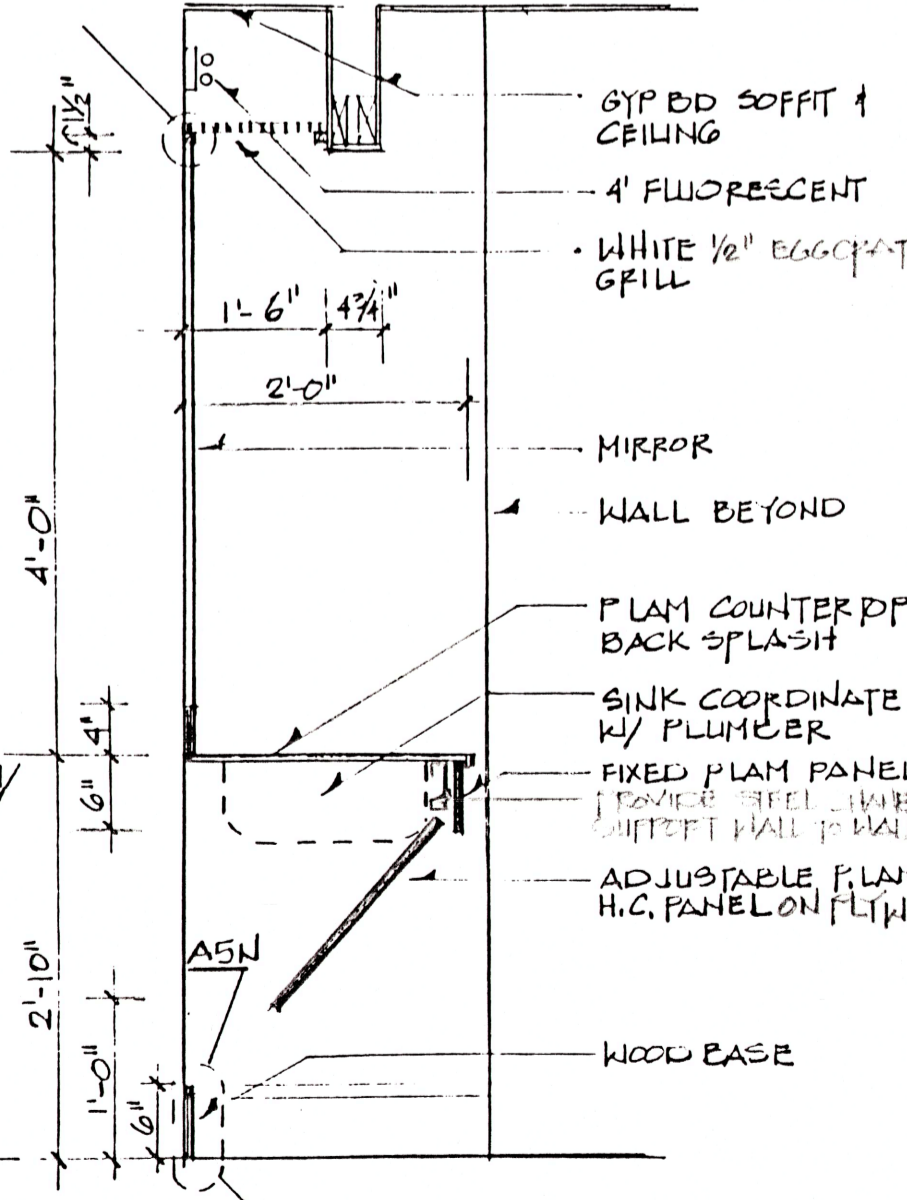
F. MILLWORK

SCALE 3/4" = 1'-0"
KITCHEN MILLWORK SEE ALTERNATE G-2



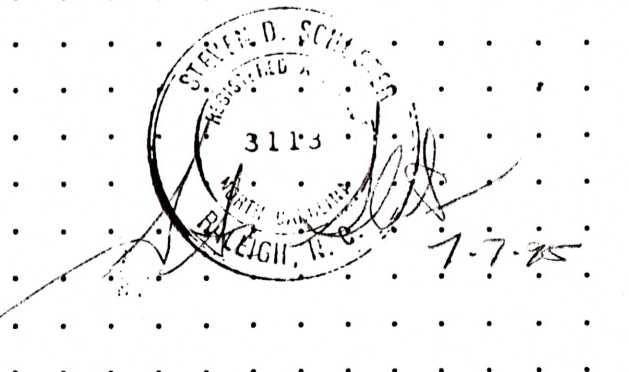
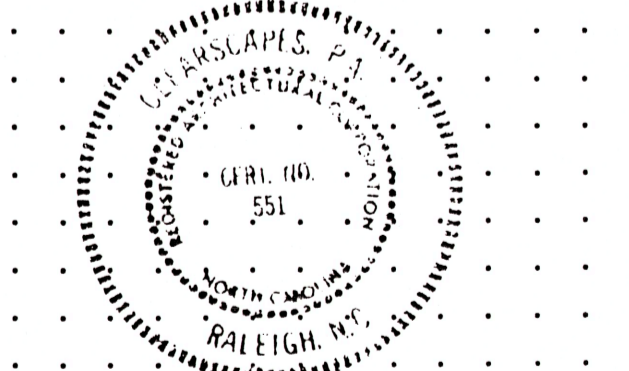
G. MILLWORK

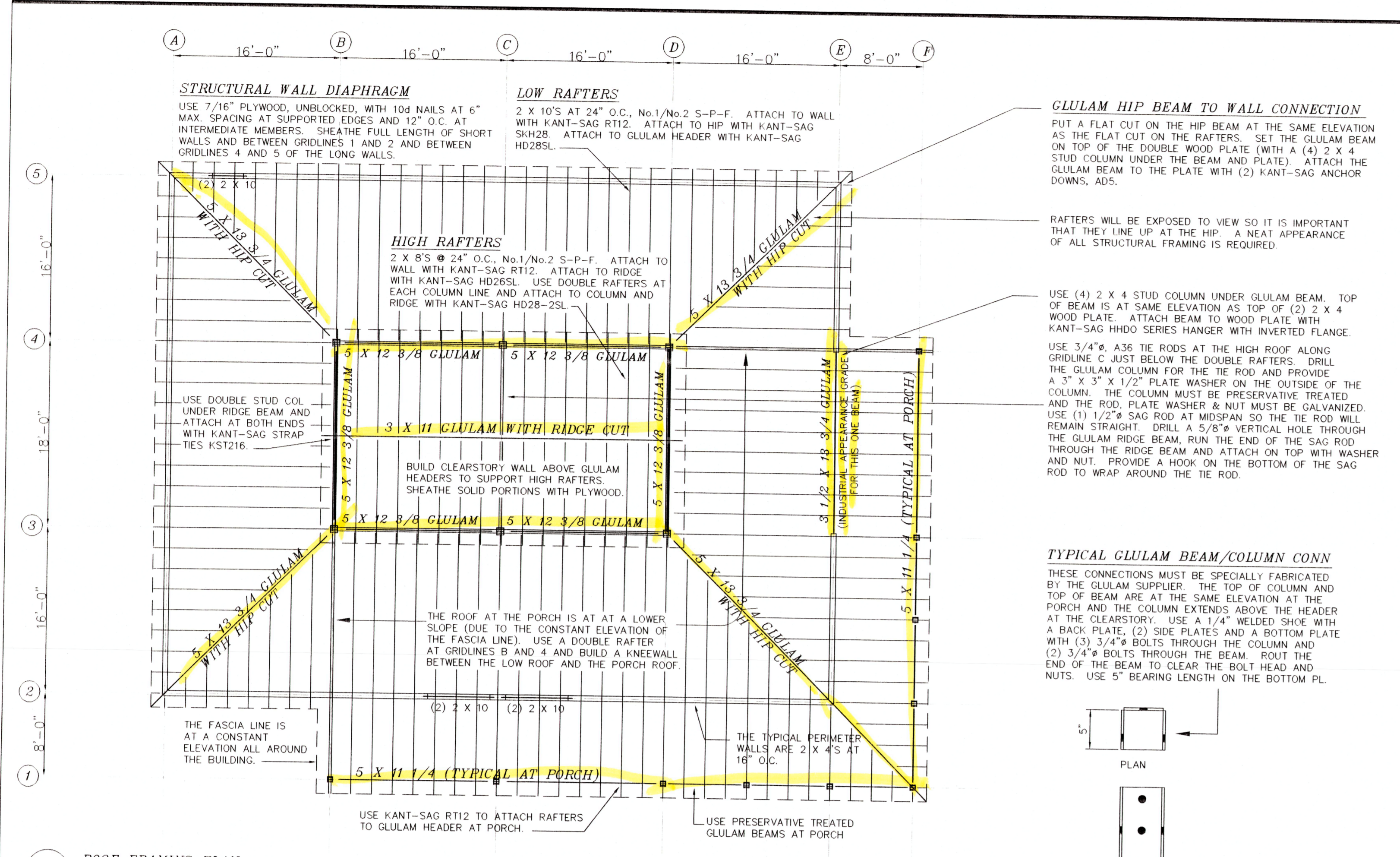
SCALE 3/4" = 1'-0"
KITCHEN MILLWORK SEE ALTERNATE G-2



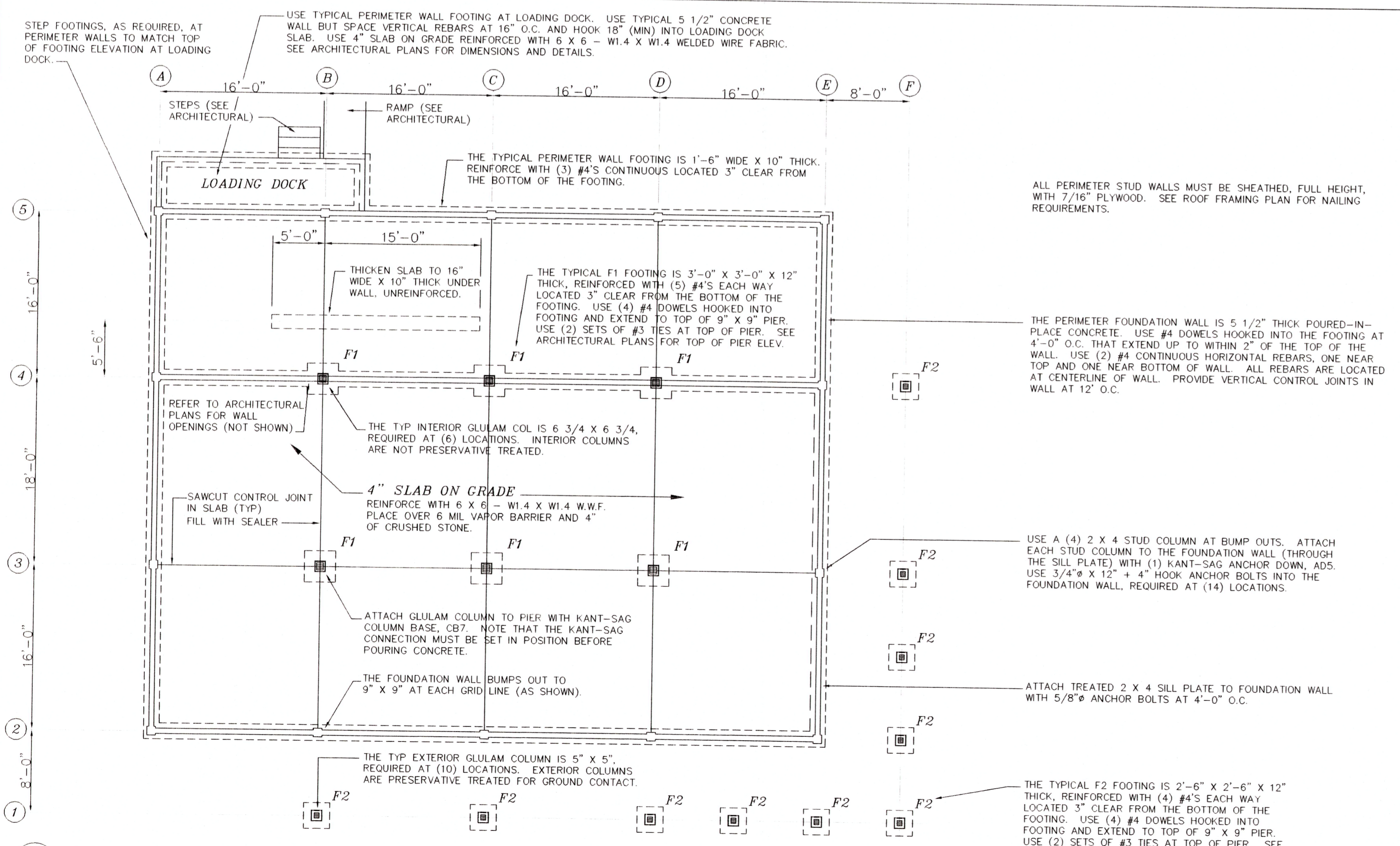
H. MILLWORK

SCALE 3/4" = 1'-0"





02 ROOF FRAMING PLAN 1/8\"/>



01 FOUNDATION PLAN 1/8\"/>

GLULAM HIP BEAM TO WALL CONNECTION

PUT A FLAT CUT ON THE HIP BEAM AT THE SAME ELEVATION AS THE FLAT CUT ON THE RAFTERS. SET THE GLULAM BEAM ON TOP OF THE DOUBLE WOOD PLATE (WITH A (4) 2 X 4 STUD COLUMN UNDER THE BEAM AND PLATE). ATTACH THE GLULAM BEAM TO THE PLATE WITH (2) KANT-SAG ANCHOR BOLTS, ADS.

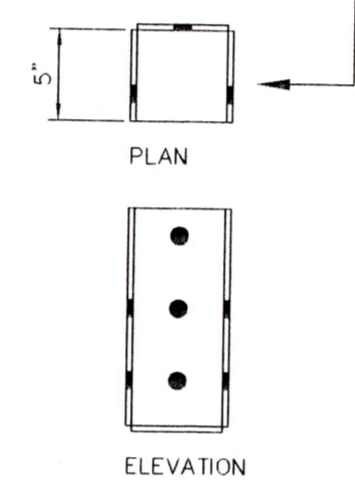
RAFTERS WILL BE EXPOSED TO VIEW SO IT IS IMPORTANT THAT THEY LINE UP AT THE HIP. A NEAT APPEARANCE OF ALL STRUCTURAL FRAMING IS REQUIRED.

USE (4) 2 X 4 STUD COLUMN UNDER GLULAM BEAM. TOP OF BEAM IS AT SAME ELEVATION AS TOP OF (2) 2 X 4 WOOD PLATE. ATTACH BEAM TO WOOD PLATE WITH KANT-SAG HHDO SERIES HANGER WITH INVERTED FLANGE.

USE 3/4\"/>

TYPICAL GLULAM BEAM/COLUMN CONN

THESE CONNECTIONS MUST BE SPECIALLY FABRICATED BY THE GLULAM SUPPLIER. THE TOP OF COLUMN AND TOP OF BEAM ARE AT THE SAME ELEVATION AT THE PORCH AND THE COLUMN EXTENDS ABOVE THE HEADER AT THE CLEARSTOREY. USE A 1/4\"/>



STRUCTURAL NOTES

GENERAL
THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE PROJECT STRUCTURAL ENGINEER-OF-RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF THE STRUCTURAL FRAMING RELATING TO PUBLIC HEALTH, SAFETY AND WELFARE. NO OTHER PARTY, WHETHER OR NOT A PROFESSIONAL ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF THE SER.

SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR EACH OF THE STRUCTURAL COMPONENTS.

SCOPE OF STRUCTURAL ENGINEERING SERVICES
LYSAGHT & ASSOCIATES HAS PERFORMED THE STRUCTURAL DESIGN AND HELPED IN PREPARATION OF THE STRUCTURAL WORKING DRAWINGS FOR THIS PROJECT. "CONSTRUCTION REVIEW" SERVICES ARE ALSO A PART OF OUR CONTRACT. THE CONTRACTOR MUST NOTIFY THE STRUCTURAL ENGINEER AT THE FOLLOWING STAGES OF CONSTRUCTION FOR A FIELD REVIEW OF THE WORK:

1. AFTER PLACEMENT OF FOOTING REBAR, BEFORE CONCRETE POUR.
2. AFTER ERECTION OF THE STRUCTURAL FRAMING.
3. AT ANY STAGE OF CONSTRUCTION WHEN DESIGN OR CONSTRUCTION PROBLEMS ARE ENCOUNTERED.

A "CONSTRUCTION REVIEW REPORT" WILL BE SENT TO THE CONTRACTOR AND THE ARCHITECT FOLLOWING EACH FIELD TRIP.

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT FOR THE COMPONENTS NOTED ABOVE. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL AND NON-STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS.

THE STRUCTURAL ENGINEER HAS NOT DONE A SUBSURFACE INVESTIGATION (HE IS NOT A SOILS SPECIALIST). THE FOUNDATION DESIGN IS BASED UPON AN ASSUMED ALLOWABLE BEARING PRESSURE AS SHOWN IN THE "FOUNDATION" STRUCTURAL NOTES. THIS ALLOWABLE BEARING PRESSURE MUST BE VERIFIED BY THE CONTRACTOR OR OWNER. IF PROBLEMS ARE ENCOUNTERED, A SOILS ENGINEER SHOULD BE RETAINED TO EVALUATE THE CONDITIONS AND RECOMMEND THE APPROPRIATE FOUNDATION SYSTEM.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL HE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CODE
NORTH CAROLINA STATE BUILDING CODE - 1993 EDITION
WIND LOADS PER ASCE 7-93

DESIGN LOADS

ROOF DEAD LOAD	15 PSF
ROOF LIVE LOAD	20 PSF
FLOOR LIVE LOAD	100 PSF
WIND LOAD	80 MPH
SEISMIC ZONE	AV = 0.075

FOUNDATIONS

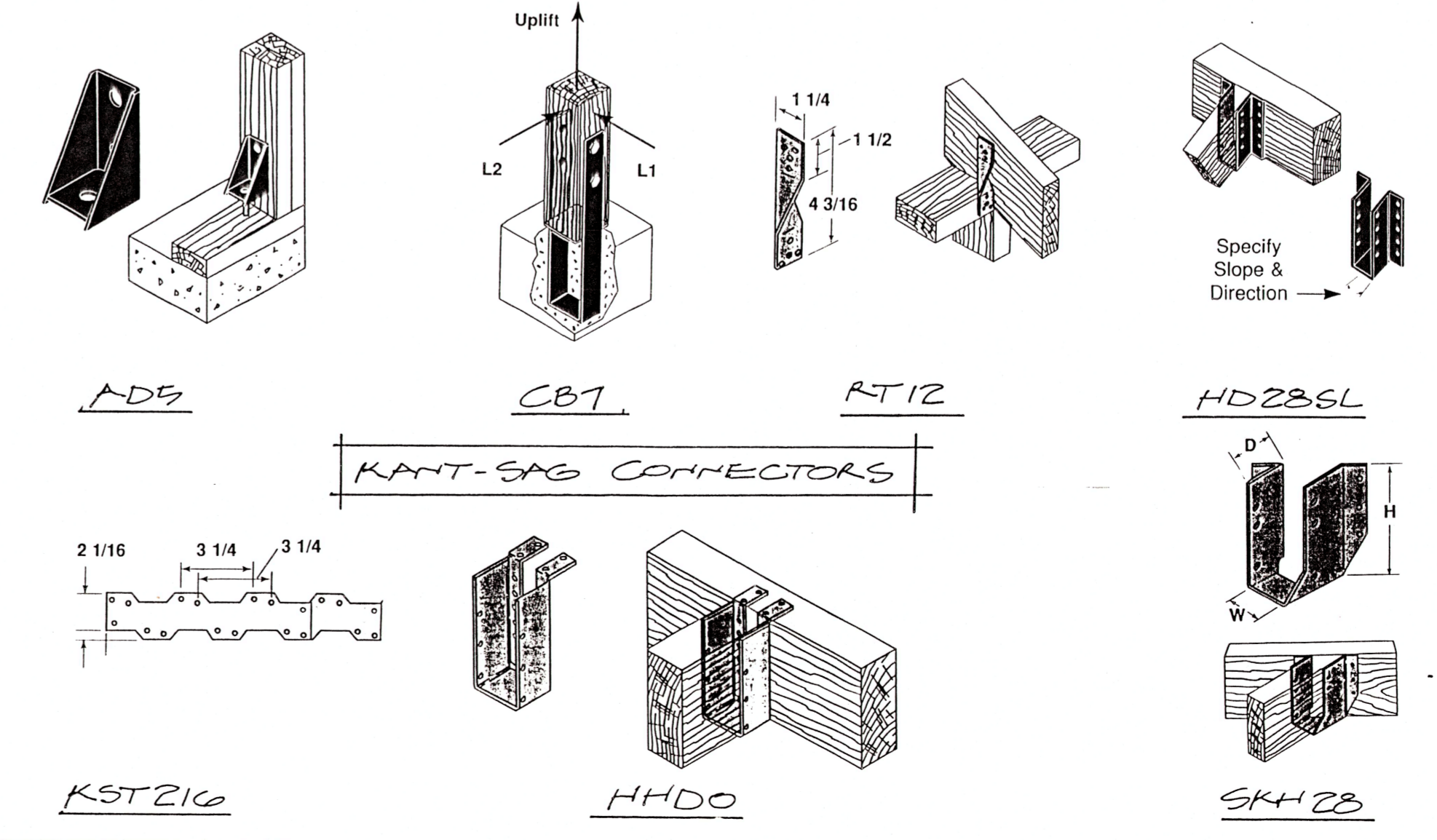
ALL FOOTINGS SHALL REST ON SOIL CAPABLE OF SAFELY SUPPORTING 3000 PSF. CONTACT STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED.

FOOTINGS SHALL BE CARRIED TO A LOWER ELEVATION THAN THOSE INDICATED ON THESE DRAWINGS IF NECESSARY TO REACH FIRM UNDISTURBED SOIL.

THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2'-0" BELOW FINISHED GRADE.

SLAB ON GRADE SHALL BE FOUNDED ON STABLE NATURAL SOIL OR CONTROLLED COMPACTED FILL. THE MINIMUM BEARING CAPACITY SHALL BE 3000 PSF.

ALL FILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR METHOD). THIS FINAL FOOT BENEATH FLOOR SLABS AND PAVEMENTS.



CONCRETE

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." ANY ADMIXTURES MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3000 PSI.
DO NOT CAST CONCRETE IN WATER OR ON FROZEN GROUND.

CRACK CONTROL JOINTS SHALL BE PLACED IN SLABS ON GRADE AT A MAXIMUM SPACING OF 18' UNLESS NOTED OTHERWISE.

REINFORCING STEEL

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. CLEAR CONCRETE COVER OVER BARS SHALL BE 3" FOR FOOTINGS.

ALL SLABS ON GRADE SHALL BE REINFORCED WITH 6 X 6 W 1.4 X W 1.4 W.W.F. PLACED 1" BELOW TOP OF SLAB.

PROVIDE CORNER BARS AT ALL FOOTING STEPS AND CORNERS. BARS SHALL BE A MINIMUM OF 2'-6" LONG AND SHALL HAVE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.

LAP ALL SPLICES AS SPECIFICALLY CALLED FOR, BUT AT LEAST 36 BAR DIAMETERS (12" MINIMUM) FOR TENSION OR 24 BAR DIAMETERS FOR COMPRESSION, UNLESS NOTED OTHERWISE.

POURED-IN-PLACE CONCRETE FOUNDATION WALLS

CONCRETE SHOULD CONTAIN 6.0% ENTRAINED AIR WITH A TOLERANCE OF +/- 1.5%. THE NOMINAL THICKNESS FOR FOUNDATION WALLS IS 6". PROVIDE #4 VERTICAL REBARS AT 4'-0" O.C. AT CENTERLINE OF WALL AND (2) #4 CONTINUOUS HORIZONTAL REBARS, ONE NEAR TOP AND ONE NEAR BOTTOM OF WALL.

PROVIDE VERTICAL CONTRACTION JOINTS IN WALLS AT 12' +/- O.C. TO MINIMIZE RANDOM SHRINKAGE CRACKING IN THE WALL. THIS IS NOT A BUILDING CODE REQUIREMENT, BUT AN ACI (AMERICAN CONCRETE INSTITUTE) RECOMMENDATION. CUT THE CONTRACTION JOINT INTO THE WALL WITH A MASONRY SAW WITHIN A FEW HOURS AFTER STRIPPING THE FORMS. USE A WATERSTOP AT EACH CONTRACTION JOINT.

STRUCTURAL GLUED LAMINATED WOOD

MATERIALS, MANUFACTURE AND QUALITY CONTROL SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL STANDARD ANSI/AITC A190.1-1983, "STRUCTURAL GLUED LAMINATED TIMBER".

LAMINATING COMBINATIONS FOR BENDING MEMBERS SHALL MEET THE REQUIREMENTS OF ANSI/AITC A190.1, AND SHALL PROVIDE ALLOWABLE DESIGN VALUES OF 2400 PSI IN BENDING, 1700 PSI IN COMPRESSION PARALLEL TO GRAIN, 1150 PSI IN TENSION PARALLEL TO GRAIN, 450 PSI IN COMPRESSION PERPENDICULAR TO GRAIN, 200 PSI IN HORIZONTAL SHEAR, AND 1700000 PSI IN MODULUS OF ELASTICITY FOR DRY CONDITIONS OF SERVICE.

USE LAMINATING COMBINATION #47 FOR COLUMNS. ALL COLUMNS MUST BE PRESERVATIVE TREATED.

ADHESIVES SHALL MEET THE REQUIREMENTS FOR WET CONDITION OF SERVICE. MEMBERS SHALL BE MARKED WITH QUALITY MARK, AND, IN ADDITION, A CERTIFICATE OF CONFORMANCE SHALL BE PROVIDED TO INDICATE CONFORMANCE WITH ANSI/AITC A190.1-1983.

CAREFULLY UNLOAD AND HANDLE THE LAMINATED MEMBERS AT JOBSITE TO PREVENT SURFACE MARRING AND DAMAGE. IF LAMINATED WOOD IS TO BE STORED BEFORE ERECTION, PLACE IT ON BLOCKS WELL OFF THE GROUND WITH INDIVIDUAL MEMBERS SEPARATED BY STRIPS SO THAT AIR MAY CIRCULATE. COVER THE TOP AND SIDES OF STORAGE PILES WITH MOISTURE-RESISTANT COVERING. (DO NOT USE CLEAR POLYETHYLENE FILMS). WHEN HOISTING MEMBERS INTO PLACE USE ADEQUATELY BRACE MEMBERS AS THEY ARE ERECTED TO HOLD THEM IN A SAFE POSITION UNTIL FULL STABILITY IS PROVIDED.

SOLID WOOD FRAMING, HEADERS AND PLYWOOD

ALL SOLID WOOD FRAMING SHALL COMPLY WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".

SEE FRAMING PLAN FOR GRADE AND SPECIES OF ROOF JOISTS.

PLYWOOD SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION". PLYWOOD SHALL BE CDX (UND).

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE NORTH CAROLINA STATE BUILDING CODE.

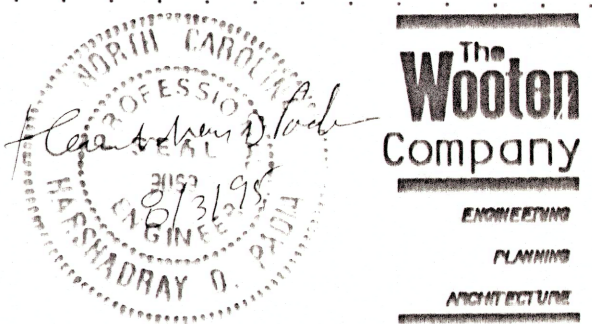
BUILT-UP STUD COLUMNS MUST BE SECURELY NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. MAXIMUM BOLT SPACING IS 3'-0" WITH BOLTS AT BOTH ENDS.

THE HEIGHT OF STUD BEARING WALLS IS LIMITED TO 10' BETWEEN LATERAL BRACING UNLESS NOTED OTHERWISE BY STRUCTURAL ENGINEER.

ALL KANT-SAG CONNECTORS AND HARDWARE SHALL HAVE A GALVANIZED FINISH.

LYSAGHT & ASSOCIATES, P.A.
STRUCTURAL ENGINEERS
308 W. MARTIN ST. SUITE 101
RALEIGH NC 27601 919 833 0495
FILE NUMBER: LA-2974

12/1/95
SHEET S1
TITLE: STRUCTURAL PLANS
Date 12/1/95
Checked CAL
Drawn CAL



OAK VIEW
FARM HISTORY CENTER
WAKE COUNTY,
NORTH CAROLINA

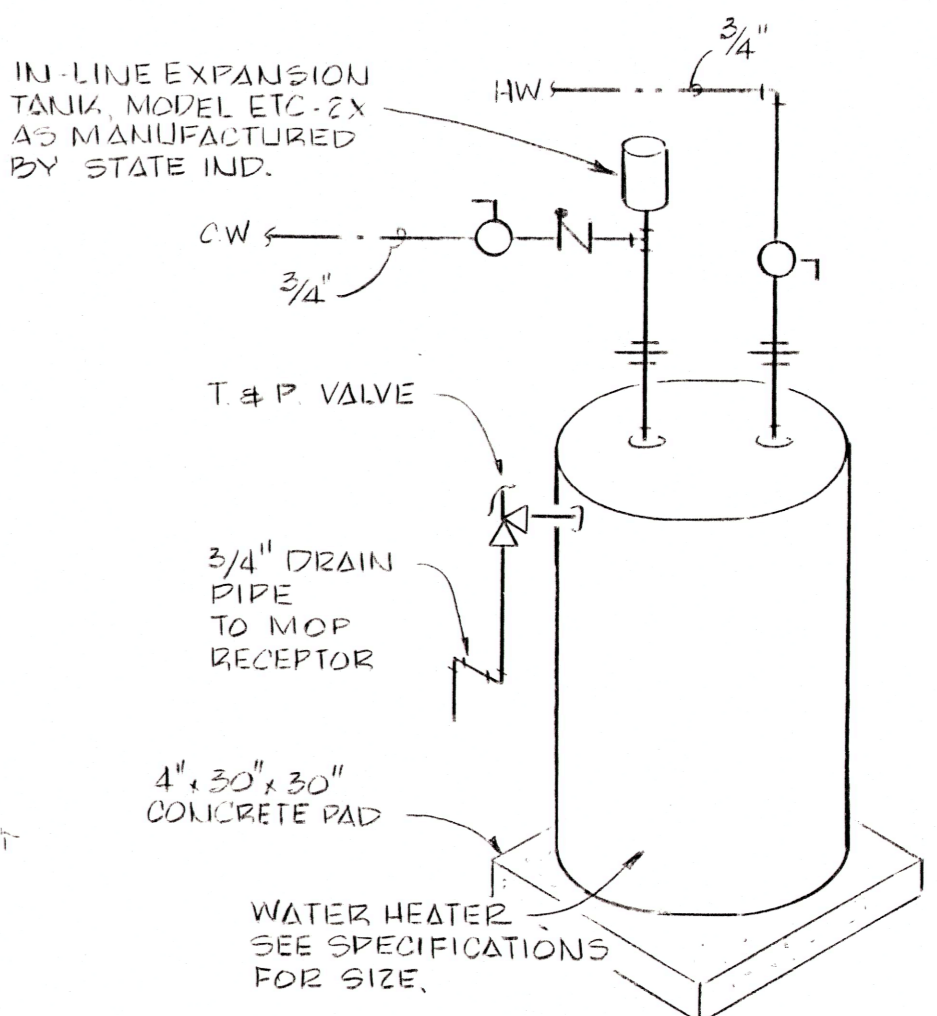
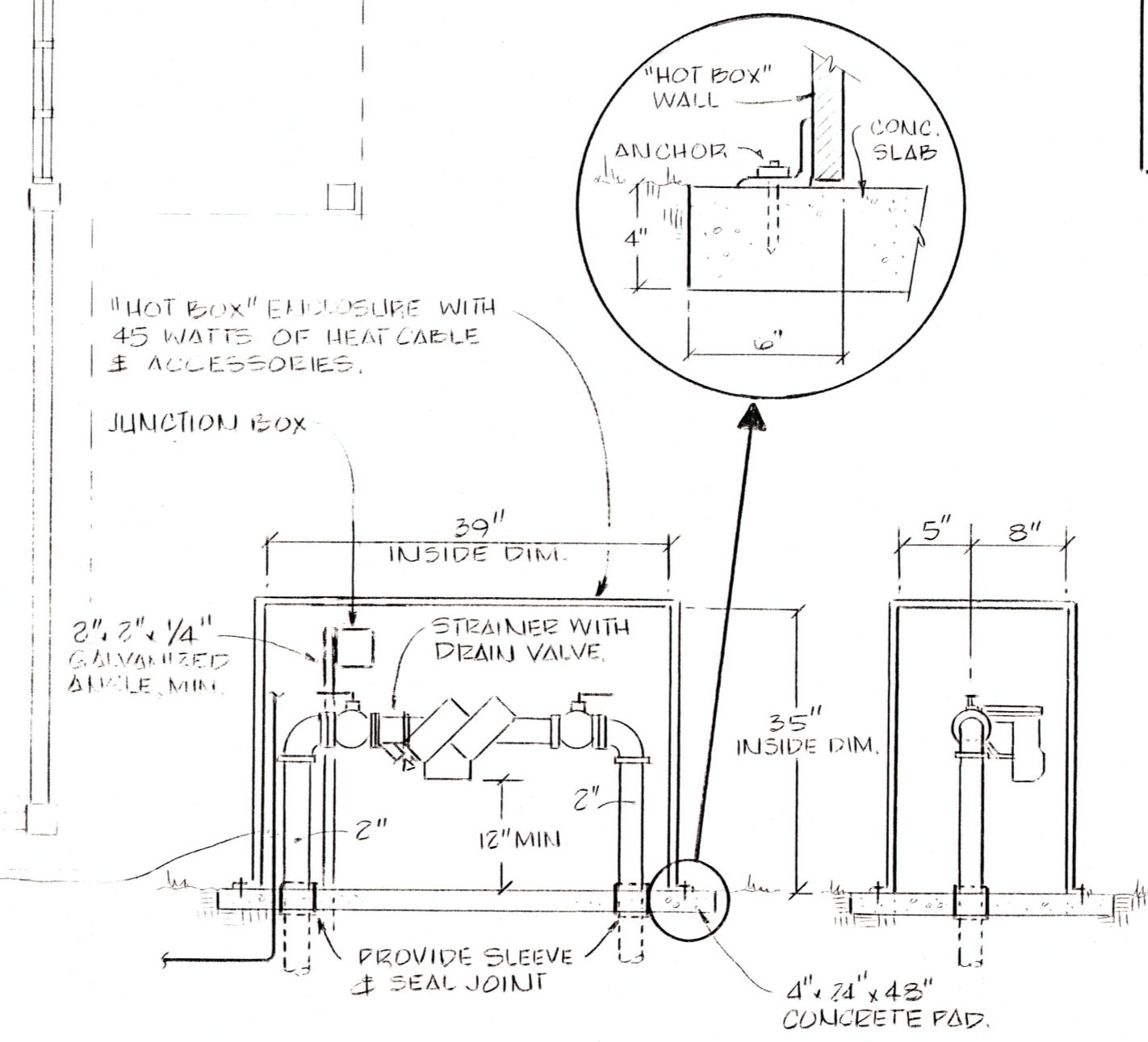
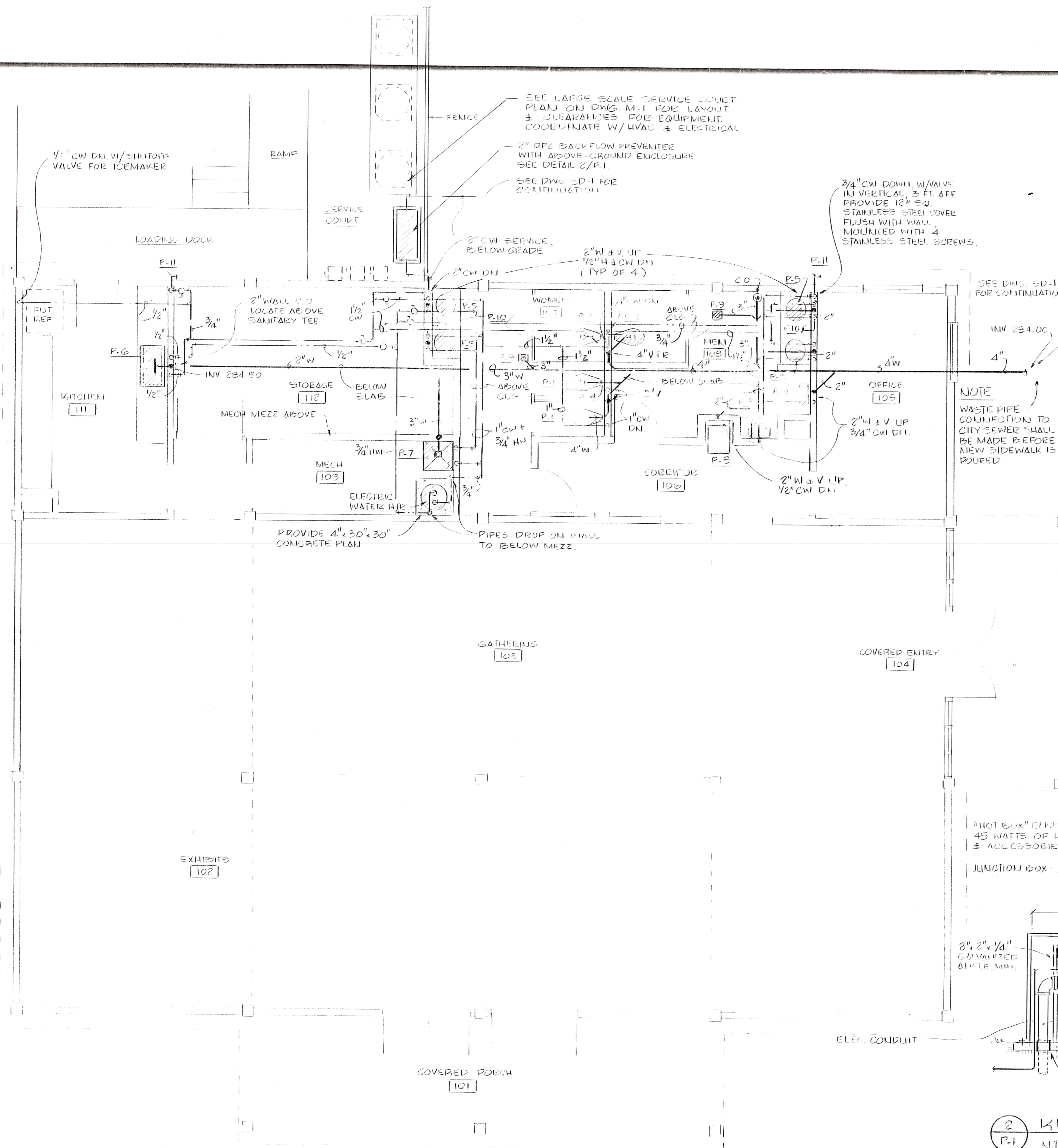
PLUMBING FIXTURE SCHEDULE:					
MARK	DESCRIPTION	C.W.	H.W.	WASTE	REMARKS
P-1	WATER CLOSET	1"	-	4"	FLOOR MTD. FLUSH VALVE
P-2	WATER CLOSET (HANDICAPPED)	1"	-	4"	FLOOR MTD. FLUSH VALVE
P-3	URINAL	3/4"	-	2"	MOUNT LIP 19" AFF
P-4	URINAL (HANDICAPPED)	3/4"	-	2"	MOUNT LIP 17" AFF
P-5	COUNTERTOP LAVATORY	1/2"	1/2"	1/4"	
P-6	DOUBLE COMPARTMENT SINK	1/2"	1/2"	1 1/2"	
P-7	MOP RECEPTOR	3/4"	3/4"	3"	
P-8	E.W.C. (HANDICAPPED)	1/2"	-	1/4"	
P-9	FLOOR DRAIN	-	-	3"	
P-10	HOSE BIBB	1/2"	-	-	
P-11	WALL HYDRANT	3/4"	-	-	FREEZEPROOF

PLUMBING TOTAL CONNECTED LOAD:

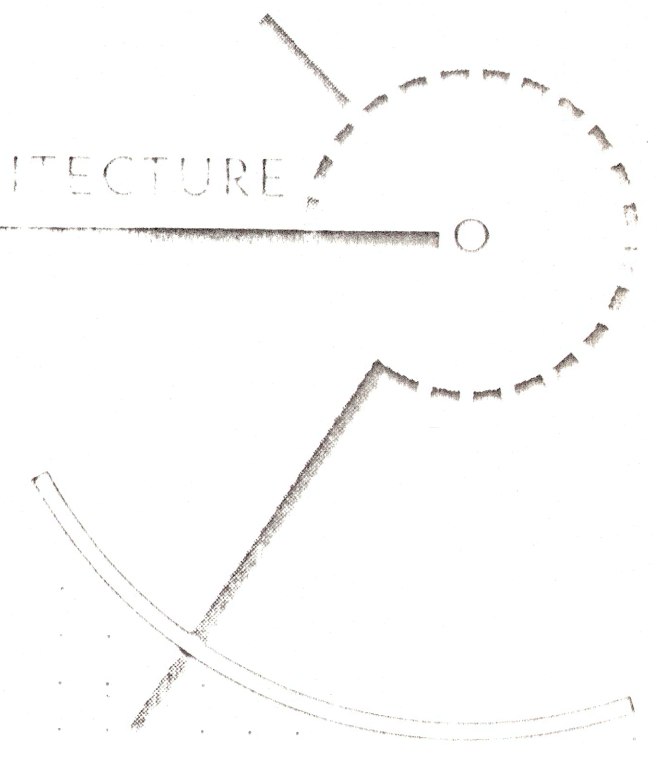
WASTE: 56 FU.
WATER: 67 FU, 57 GPM.

PLUMBING LEGEND:

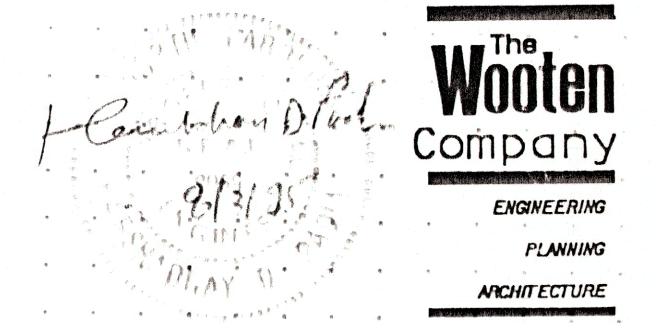
- W. WASTE PIPING
- V. VENT PIPING
- C.W. COLD WATER PIPING
- H.W. HOT WATER PIPING
- C.O. CLEANOUT
- F.D. FLOOR DRAIN
- V.T.R. VENT THRU ROOF
- A.F.F. ABOVE FINISHED FLOOR
- A.C. AIR CHAMBER
- BALL VALVE



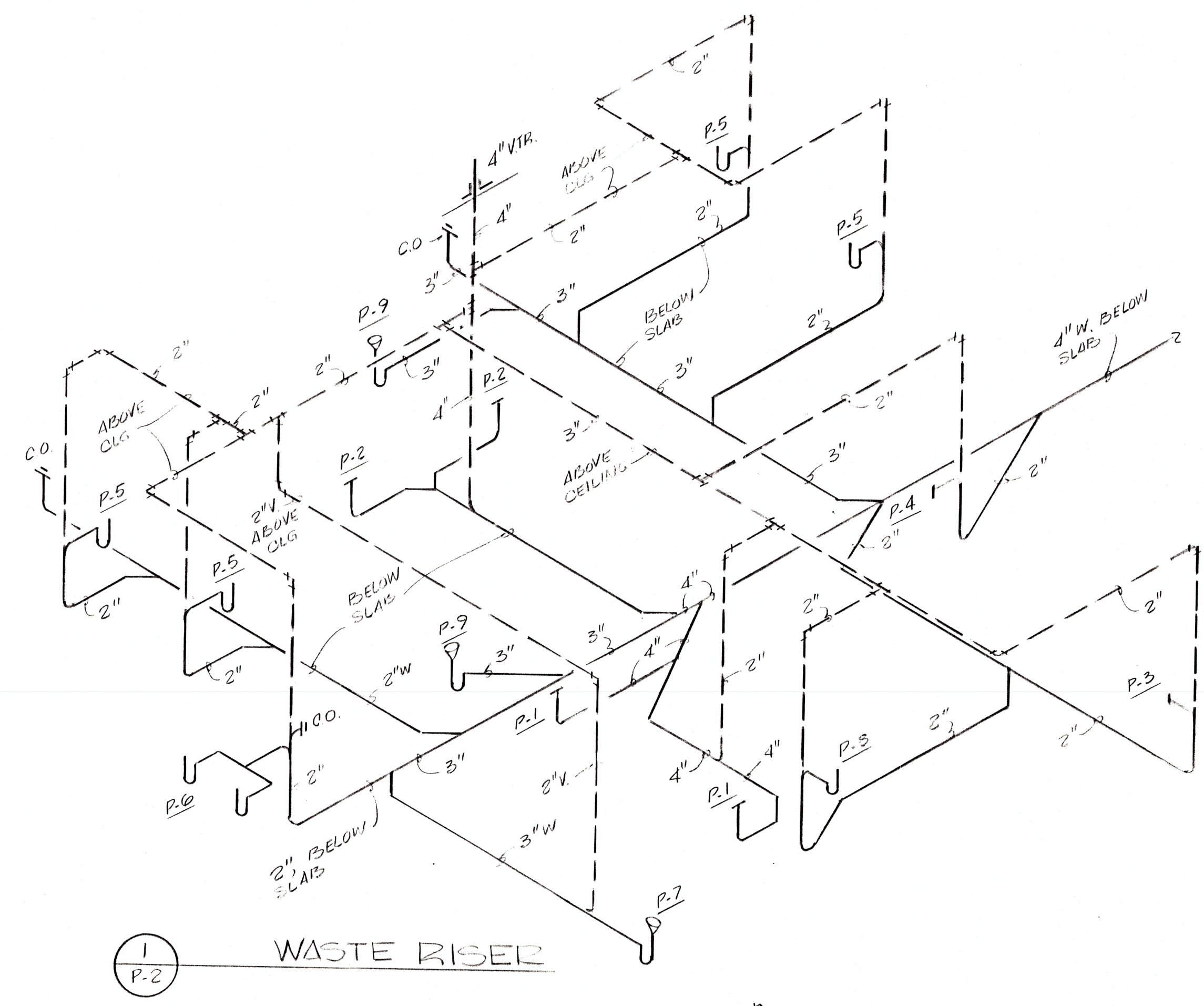
1 FLOOR PLAN PLUMBING WORK.
SCALE: 1/4" = 1'-0"



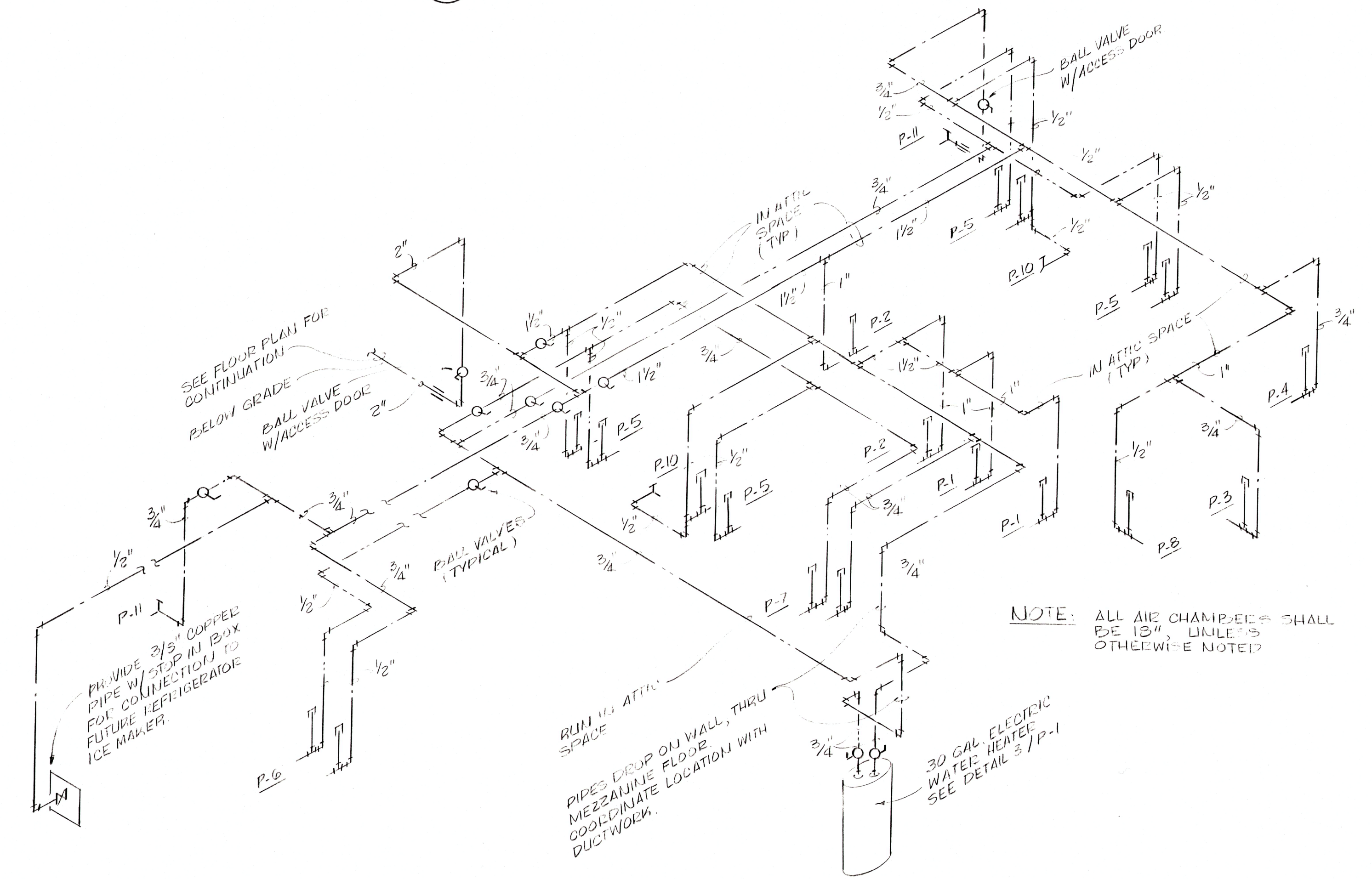
E. HARGETT STREET, SUITE 900
 RALEIGH, NC 27601 919.891.9775



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 NORTH CAROLINA



1
 P.2
 WASTE RISER

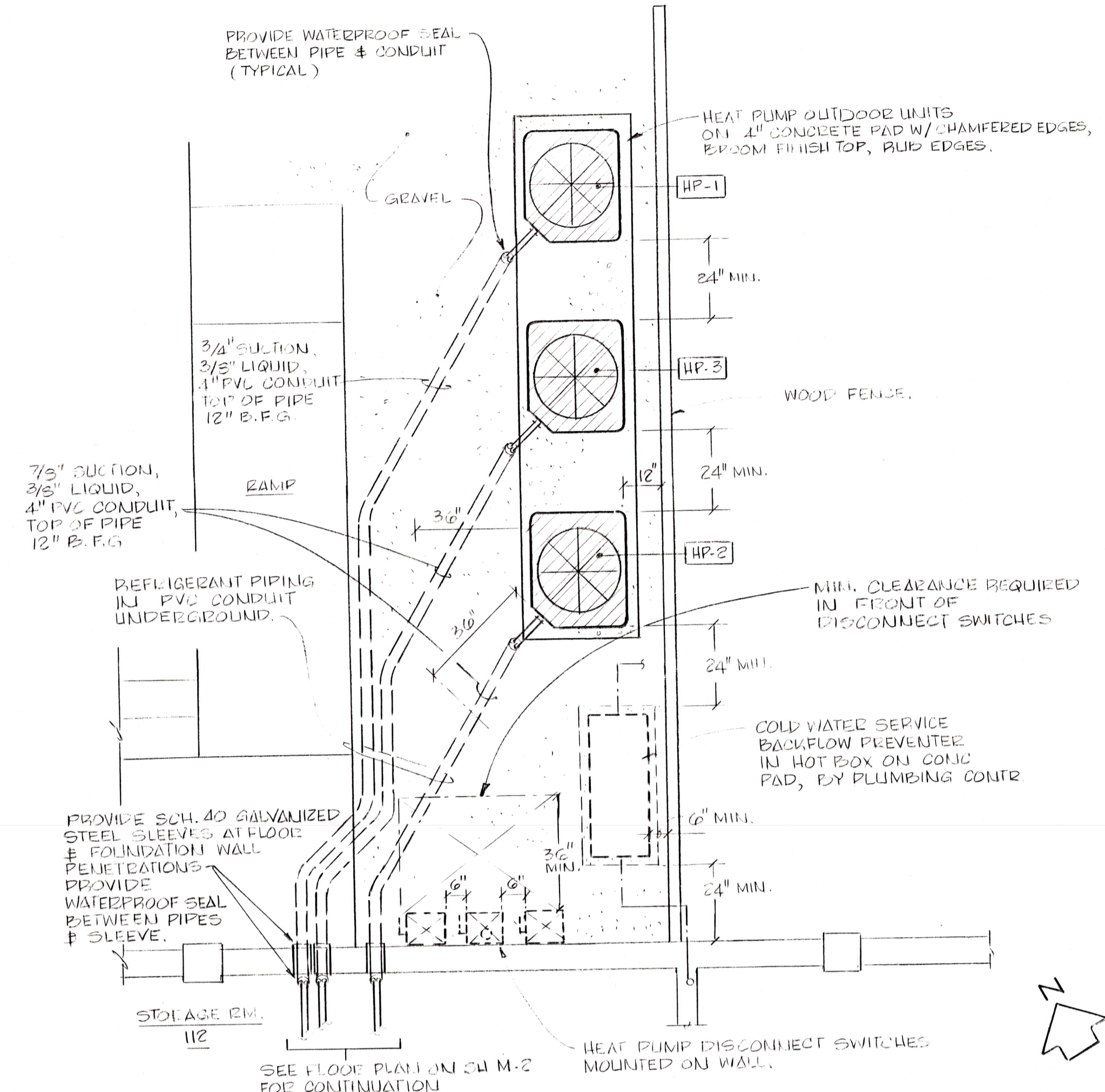


2
 P.2
 WATER RISER

Date: 12-1-1995
 Checked: JNP
 Drawn: AVS

GENERAL NOTES

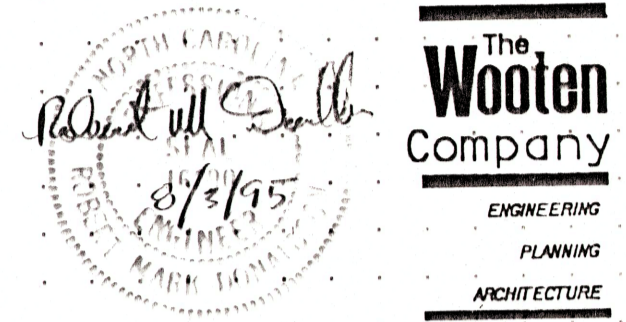
1. THIS MECH. SUBCONTR. SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING, DUCTWORK, OR EQUIPMENT.
2. THE MECHANICAL SUBCONTR. SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
3. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL SUBCONTR. TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS. HE SHALL PROVIDE TO THE ENGINEER, SCALED SHOP DRAWINGS OF ALL MECHANICAL SPACES.
4. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR PROPER MAINTENANCE AND SERVICE.
5. THE MECHANICAL SUBCONTR. SHALL PROVIDE AND INSTALL HIS OWN SUPPORT DEVICES. ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS PRIOR TO INSTALLATION.
6. THE MECHANICAL SUBCONTR. SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS AND WALL AND CEILING FINISHES. IT SHALL BE THE RESPONSIBILITY OF THIS SUBCONTR. TO PROVIDE MATERIALS APPROPRIATE FOR THE INDICATED ARCHITECTURAL FINISH.
7. CONDENSATE DRAINS SHALL BE A MINIMUM OF 1" DIA. TYPE K COPPER WITH A 25/50 RATED CELLULAR FOAM INSULATION HAVING A NOMINAL WALL THICKNESS OF 1/2". A P-TRAP SHALL BE INSTALLED IN ALL CONDENSATE DRAIN LINES FOR ALL AIR HANDLING UNITS. ALL CONDENSATE DRAIN LINES SHALL BE ROUTED AS INDICATED ON THE PLANS.
8. ALL EXHAUST DUCTWORK SHALL BE UNINSULATED.
9. INSTALL FLEXIBLE DUCT CONNECTION AT SUPPLY AND RETURN DUCT CONNECTIONS TO ALL AIR HANDLING UNITS.
10. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS OTHERWISE NOTED WHERE SQUARE ELBOWS ARE SHOWN. PROVIDE TURNING VANES AS SPECIFIED.
11. LOCATE ALL THERMOSTATS 60" ABOVE FINISHED FLOOR.
12. UNLESS OTHERWISE NOTED, ALL DUCT DIMENSIONS ARE ACTUAL INSIDE DIMENSIONS. PROVIDE 2" EXTERIOR DUCT WRAP ON ALL SUPPLY AIR DUCTS, RETURN AIR DUCTS, AND O.A. DUCTS, EXCEPT FOR EXPOSED DOUBLE WALLED ROUND SUPPLY AIR DUCT IN ROOM 103.
13. ALL DUCTWORK, PIPING, AND EQUIPMENT LAYOUTS AND LOCATIONS SHOWN ARE DIAGRAMMATIC. THE MECH. SUBCONTR. SHALL FAMILIARIZE HIMSELF WITH THE PROJECT AND COORDINATE THE DUCT AND PIPING LAYOUTS WITH ALL SUBCONTR.'S. PRIOR TO INSTALLATION. THIS SUBCONTR. SHALL PROVIDE, AT NO ADDITIONAL COST TO THE OWNER, ALL DUCT AND PIPING OFFSETS REQUIRED FOR THE SYSTEMS TO FIT THE SPACE PROVIDED WHETHER OR NOT THOSE OFFSETS ARE INDICATED ON THE PLANS.
14. ALL DUCTWORK, PIPING, AND EQUIPMENT SHALL BE SUPPORTED FROM THE BUILDING SUPPORT STRUCTURE AND NOT THE ROOF DECK.
15. THE MECHANICAL SUBCONTR. SHALL COORDINATE THE ROUGH-IN OF ALL PIPING AND DUCTWORK WITH THE GENERAL CONTRACTOR.



1
M-1
PLAN AT SERVICE COURT ~ SHOWING EQUIP. LOCATIONS & MINIMUM REQ'D. CLEARANCES:
SCALE: 3/8" = 1'-0"

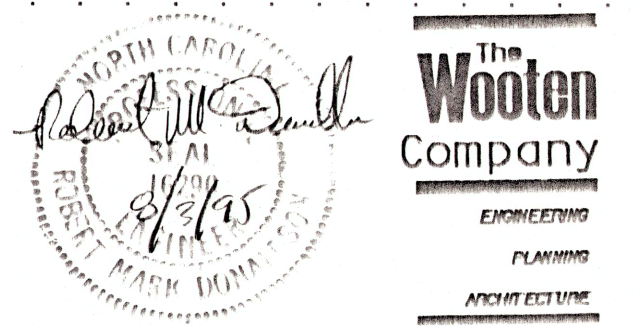
HVAC SYMBOL SCHEDULE:	
	DUCTWORK ~ SIZE AS NOTED ON PLANS.
	FLEXIBLE RUNOUT DUCT ~ SIZE AS NOTED ON PLANS.
	SUPPLY AIR DIFFUSER AT CEILING.
	RETURN AIR GRILLE AT CEILING.
	SIDEWALL SUPPLY REGISTER W/ DAMPER IN NECK & AIR SCOOP IN DUCT.
	INDICATES VOLUME DAMPER IN NECK OF CLG. MTD. DIFFUSER/GRILLE, OPERABLE FROM FACE.
	DUCT RISES / DROPS IN DIRECTION OF AIR FLOW.
	MARK C.F.M.] DIFFUSER / GRILLE / REGISTER DESIGNATION.
	① ₂ PROGRAMMABLE THERMOSTAT
	S.A. SUPPLY AIR
	R.A. RETURN AIR
	O.A. OUTSIDE AIR
	A.F.F. ABOVE FINISHED FLOOR
	A.F.G. ABOVE FINISHED GRADE
	B.F.G. BELOW FINISHED GRADE
	FC. FLEXIBLE CONNECTION
	C.O. CLEANOUT

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RALEIGH - NC - 27601 919 821 2775



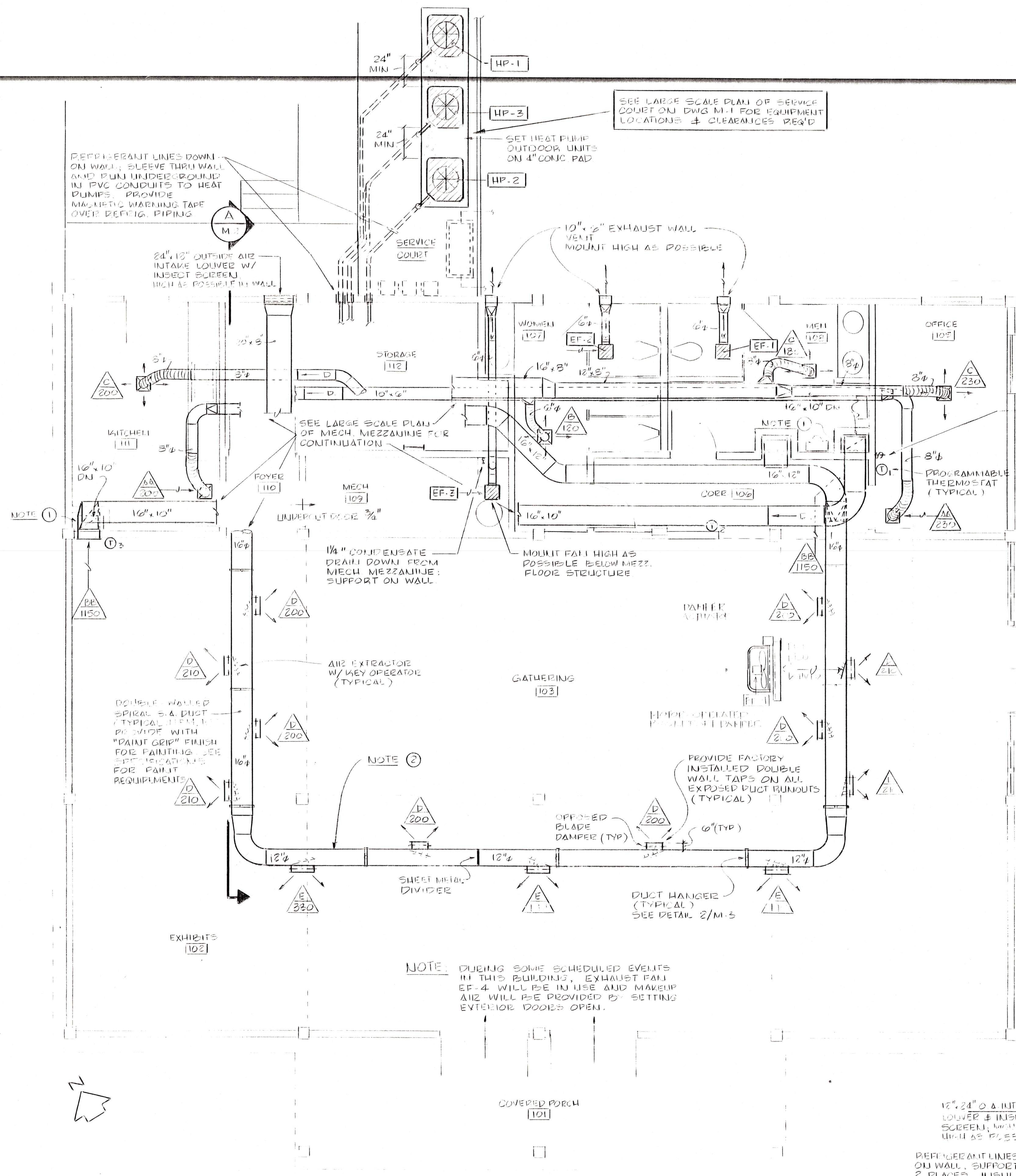
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NORTH CAROLINA

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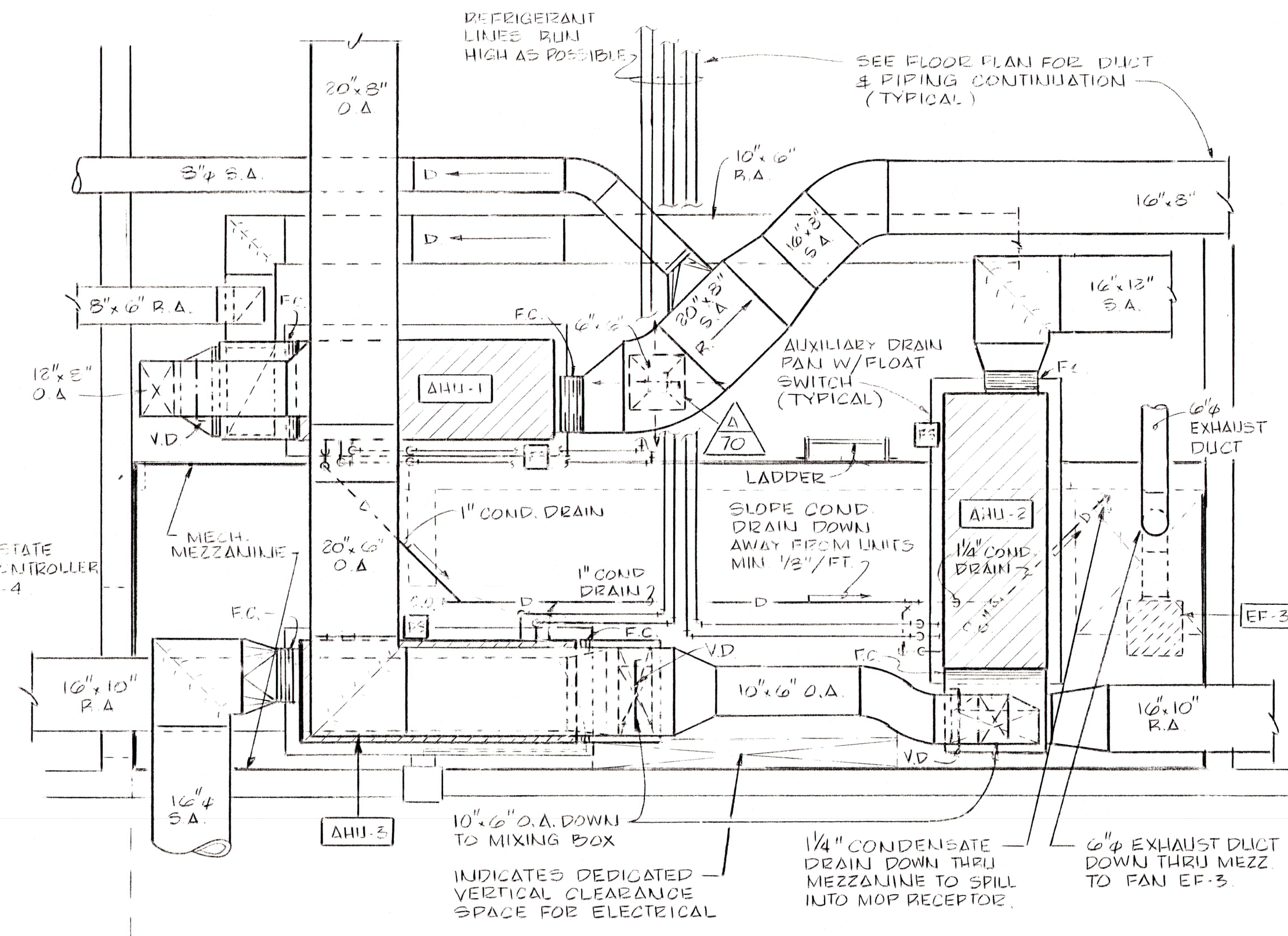


The Wooten Company
ENGINEERING
PLANNING
ARCHITECTURE

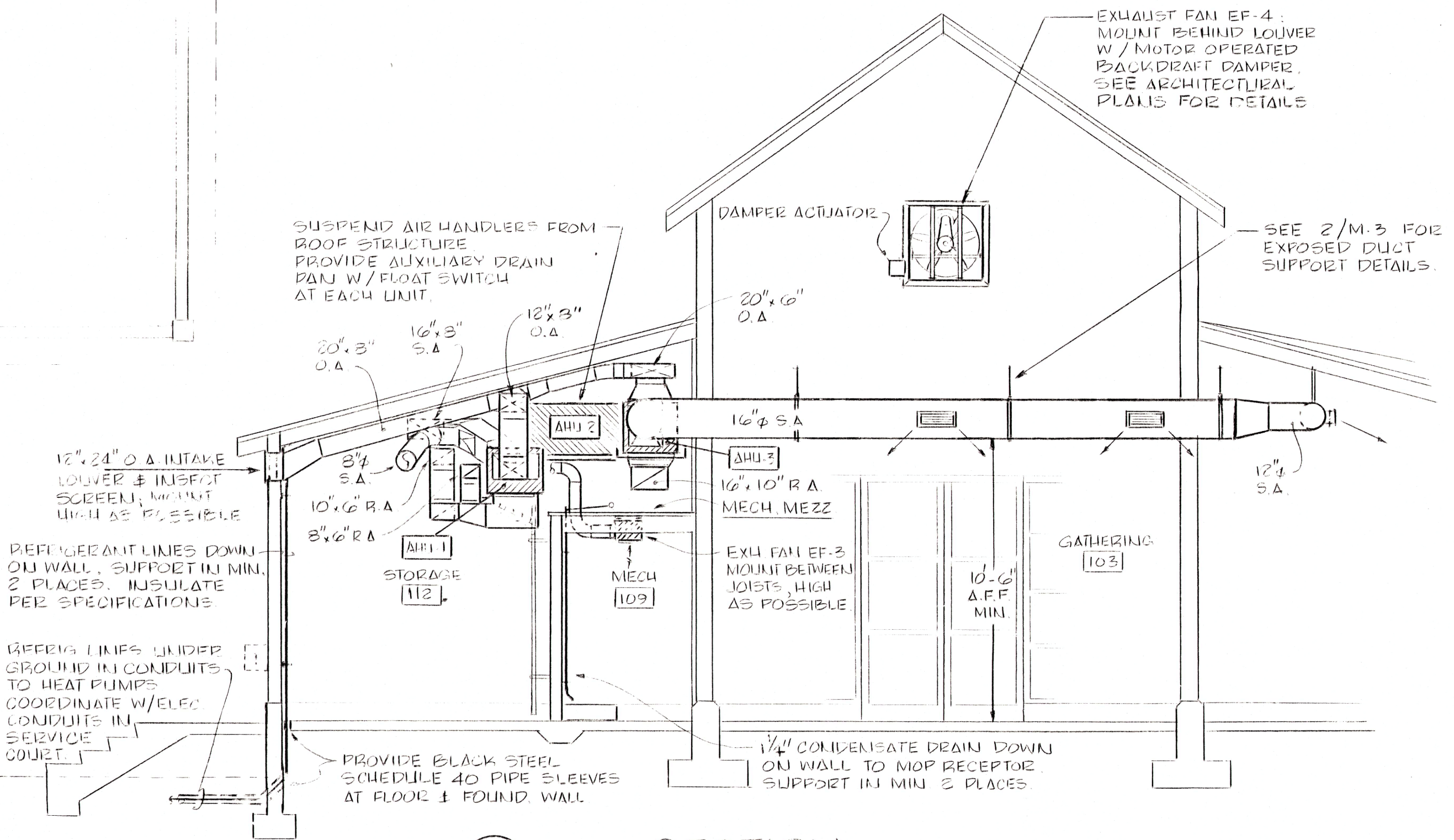
OAK VIEW
FARM HISTORY CENTER
WAKE COUNTY,
NORTH CAROLINA



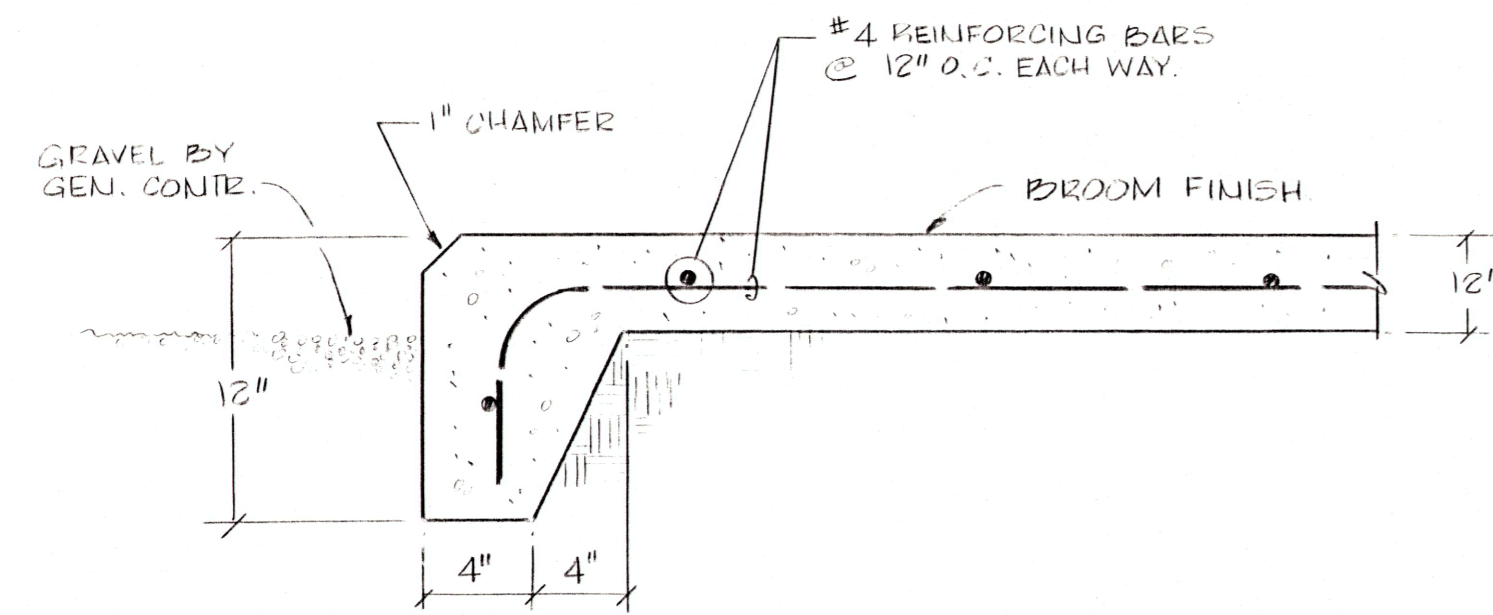
1
M-2
FLOOR PLAN HVAC WORK
SCALE: 1/4" = 1'-0"
NOTES:
1. PAINT R.A. DUCT IN CHASE MATTE BLACK INSIDE BEHIND GRILLE, AND FOR 24" ABOVE TOP OF GRILLE.
2. PAINT ALL EXPOSED DUCTWORK IN ACCORDANCE WITH ARCHITECTURAL PLANS & SPECIFICATION SECTION 09900



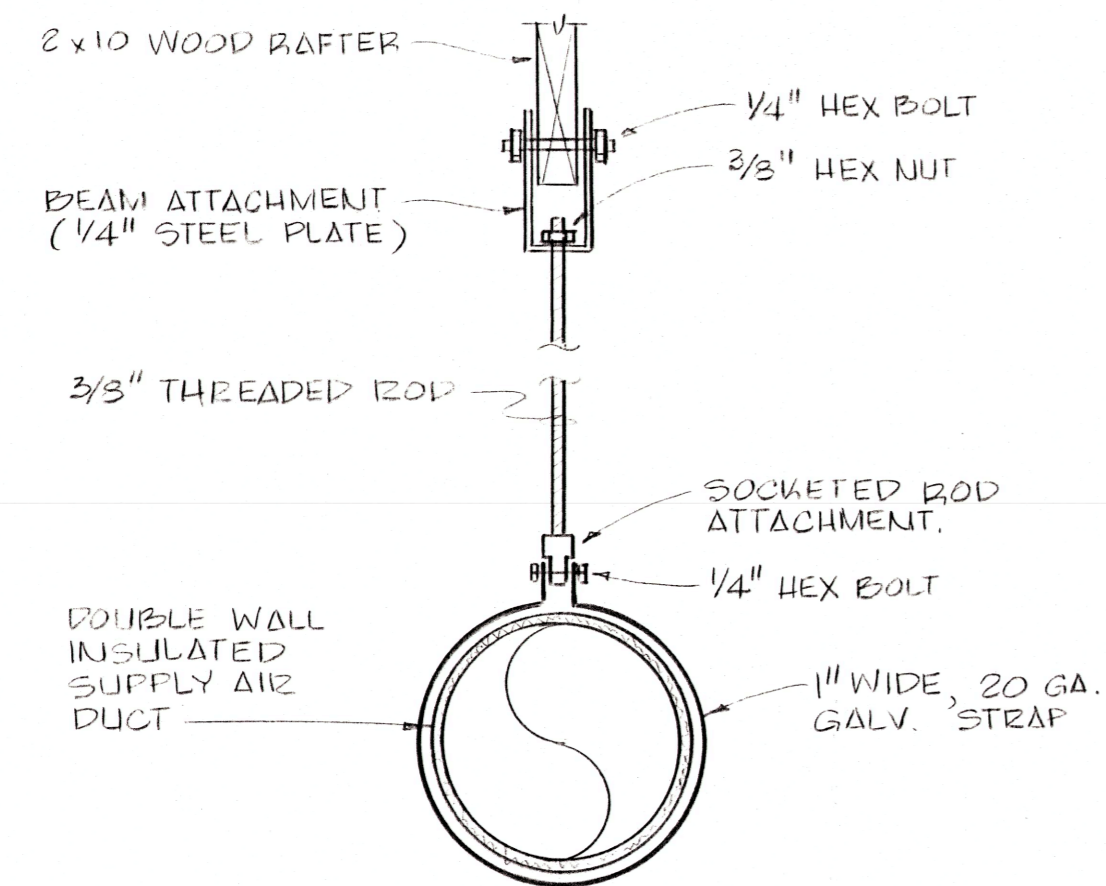
2
M-2
LARGE SCALE PLAN - MECH. MEZZANINE
SCALE: 1/2" = 1'-0"



A
M-2
SECTION
SCALE: 1/4" = 1'-0"



1 CONCRETE EQUIPMENT PAD DETAIL:
M-3 NO SCALE



2 DUCT HANGER DETAIL FOR EXPOSED DUCTWORK:
M-3 NO SCALE

CONTROL NOTES:

- ALL HEAT PUMP SYSTEMS SHALL BE CONTROLLED BY 24V. PROGRAMMABLE THERMOSTATS. SEE SPECIFICATIONS FOR DETAILS. THERMOSTATS AND CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY MECHANICAL SUBCONTRACTOR.
- EXHAUST FANS EF-1, EF-2, AND EF-3 SHALL BE INTERLOCKED WITH ROOM LIGHT SWITCHES
- EXHAUST FAN EF-4 SHALL BE CONTROLLED BY SOLID STATE SPEED CONTROLLER LOCATED IN OFFICE 105.
- PROVIDE 24V. FLOAT SWITCHES IN ALL AUXILIARY DRAIN PANS AND INTERLOCK WITH RESPECTIVE HEAT PUMP CONTROL CIRCUIT TO SHUT DOWN SYSTEM IN THE EVENT OF HIGH WATER LEVEL IN PAN.

SYSTEM NO.	CFM TOTAL	CFM O.A.	E.S.P. IN H ₂ O	COOLING		TOTAL COOLING CAPACITY (MBH)	HEATING		SUPPL. HEAT		VOLTS / PH.	SEER	MANUFACTURER & MODEL NO. (DESIGN BASED ON CARRIER)		REMARKS
				ENT. AIR TEMP.			OD DB °F	HIGH	KW	STAGES			INDOOR UNIT (AHU)	OUTDOOR UNIT (HP)	
				DB °F	WB °F										
1	900	90	0.5	74.3	63.2	29,000	17	17,000	3.8	1	208/1	14	FK4BNF003	33YEA030	1, 2
2	1400	250	0.5	76.1	63.8	51,000	17	27,000	7.5	1	208/1		FK4BNB006	33YEA048	1, 2, 3.
3	1400	250	0.5	76.1	63.8	51,000	17	27,000	7.5	1	208/1				1, 2, 3.

SCHEDULE NOTES: 1. MODEL NUMBERS GIVEN ARE FOR BASE PAD. UNDER ALTERNATE M-1, PROVIDE 12 SEER SYSTEMS IN LIEU OF 14 SEER, MODEL #'S AS FOLLOWS: —
 HP-1: CARRIER 33BY030
 AHU-1: CARRIER FB4A030
 HP-2 & HP-3: CARRIER 33BY048
 AHU-2 & AHU-3: CARRIER FB4A048

2. PROVIDE WITH TIME DELAY RELAY AND THERMAL EXPANSION VALVE.

3. TWO SPEED HEAT PUMP

FAN NO.	SERVICE	TYPE	CFM	S.P. IN H ₂ O	RPM	ELECTRICAL MOTOR DATA			MAX. SONES	DRIVE	MANUFACTURER & MODEL NO.	REMARKS
						WATTS OR HP	VOLTS / PH.	RPM				
EF-1	WOMEN'S TLT.	CEILING EXHAUST FAN	370	.15	1000	120W.	120/1	1000	3.7	DIRECT	GREENHECK SPI50	1, 3.
EF-2	MEN'S TLT.		235	.15	1030	76W.	120/1	1030	2.9		SPI25	1, 3.
EF-3	MECH. RM.		180	.15	1690	75W.	120/1	1690	4.1		SPI17	1, 3.
EF-4	GATHERING & EXHIBIT	SIDEWALL PROPELLER	6150	.30	1024	1 HP	208/3	1750	25.1	BELT	SBE-3L24-7	2.

SCHEDULE REMARKS: 1. PROVIDE W/ SURFACE MOUNT CEILING GRILLE & WALL CAP WITH GRAVITY DAMPER & INSECT SCREEN.

2. PROVIDE W/ WALL MOUNTED SOLID STATE SPEED CONTROLLER, NEMA 1 DISCONNECT SWITCH, MOTORIZED ULTRA-LOW LEAKAGE HEAVY DUTY BACKDRAFT DAMPER W/ EXTRUDED ALUMINUM BLADES, & INSECT SCREEN. PROVIDE END SWITCH ON DAMPER ACTUATOR TO START FAN WHEN DAMPERS ARE FULLY OPEN.

3. INTERLOCKED WITH ROOM LIGHTS BY ELECTRICAL CONTRACTOR.

MARK	MANUFACTURER & MODEL NO.	SUPPLY		RETURN		MAX. NO. LEVEL	CFM	REMARKS
		NECK SIZE	PANEL / REGIST.	NECK SIZE	PANEL / REGIST.			
A	E.H. PRICE AMD	6" x 6"	12" x 12"			30	70	1, 5, 7.
B		6"					120	2, 5, 6, 7.
C		8"					180 - 230	2, 5, 6, 7.
D	G200/F/L/A/PC15	16" x 6"	16" x 6"				200 - 220	3, 8.
E		20" x 6"	20" x 6"				380	3, 8.
AA	E.H. PRICE AMD	-	-	8"	12" x 12"	30	200 - 230	2, 5, 6, 7.
BB	G300/F/L/A/PC15	-	-	14" w. x 45" h.	14" w. x 45" h.		1150	4, 5, 7.

SCHEDULE REMARKS: 1. SURFACE MOUNT ON BOTTOM OF DUCT.

2. SURFACE MOUNT ON CEILING.

3. DUCT MOUNTED SIDEWALL. PROVIDE MIN. 6" LONG RUNOUT SAME SIZE AS GRILLE W/ VOLUME DAMPER, & KEY OPERATED AIR EXTRACTOR.

4. SIDEWALL GRILLE W/ BOTTOM S'AFF.

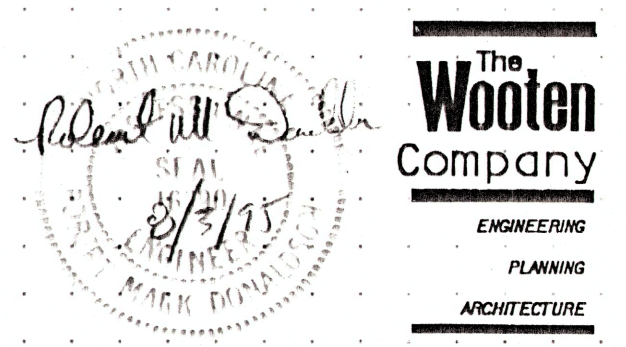
5. PROVIDE W/ OPPOSED BLADE DAMPER IN NECK, OPERABLE FROM FACE

6. PROVIDE ROUND NECK ADAPTOR

7. OFF-WHITE BAKED ENAMEL FINISH.

8. ALUMINUM PRIMER COATFINISH, SUITABLE FOR FIELD PAINTING. (PAINTING TO MATCH DUCT - COLOR BY ARCH.)

119 E HARGETT STREET, SUITE 200
RALEIGH, NC 27601 919 8212775



OAK VIEW FARM HISTORY CENTER
WAKE COUNTY, NORTH CAROLINA

ELECTRICAL LEGEND

- FLUORESCENT LIGHTING FIXTURE WITH FIXTURE DESIGNATION. SEE LIGHTING FIXTURE SCHEDULE.
- SURFACE OR RECESSED MOUNTED FIXTURE WITH FIXTURE DESIGNATION. SEE LIGHTING FIXTURE SCHEDULE.
- WALL MOUNTED FIXTURE.
- WALL MOUNTED EXIT SIGN WITH FACE AS INDICATED.
- EMERGENCY LIGHTING FIXTURE.
- SINGLE POLE SWITCH MOUNT AT 46" AFF.
- TWO POLE SWITCH.
- THREE WAY SWITCH.
- WALL MOUNTED DUPLEX RECEPTACLE. 'C' INDICATES MOUNTED ABOVE SHELF OR COUNTER.
- FLUSH FLOOR, BOX COMBINATION DUPLEX RECEPTACLE/TELEPHONE-DATA OUTLET.
- WALL MOUNTED TELEPHONE-DATA OUTLET.
- JUNCTION BOX.
- PANELBOARD.
- DISCONNECT SWITCH FUSED OR NON-FUSED AS INDICATED. INDICATES; NEMA SIZE / FUSE SIZE IF FUSED / NO. OF POLES.
- MANUAL MOTOR STARTER.
- MOTOR 'F' INDICATES FRACTIONAL HORSEPOWER.
- TELEPHONE SERVICE BACKBOARD 4'x8'x3/4" FIRE RETARDANT PAINTED PLYWOOD. PROVIDE #6GPR, GROUND -3/4" TO BUILDING GROUNDING SYSTEM. LEAVE 6' COILED FOR FUTURE USE. WIRING AND CONDUIT INSTALLED CONCEALED IN WALL OR CEILING.
- WIRING AND CONDUIT INSTALLED UNDERGROUND.
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES 2#12, 1#12G, IN 3/4" C. ADDITIONAL CONDUCTORS ARE INDICATED AS FOLLOWS: 3#12, 1#12G.; 4#12, 1#12G.
- WIRING AND CONDUIT INSTALLED EXPOSED.
- FIRE ALARM CONTROL PANEL WITH DIGITAL COMMUNICATOR.
- FIRE ALARM PULL STATION.
- FIRE ALARM HORN AND LIGHT UNIT.
- FIRE ALARM LIGHT UNIT.
- FIRE ALARM SMOKE DETECTOR.
- LOW VOLTAGE WIRING AND CONDUIT 2#12-3/4" C. UNLESS NOTED OTHERWISE.

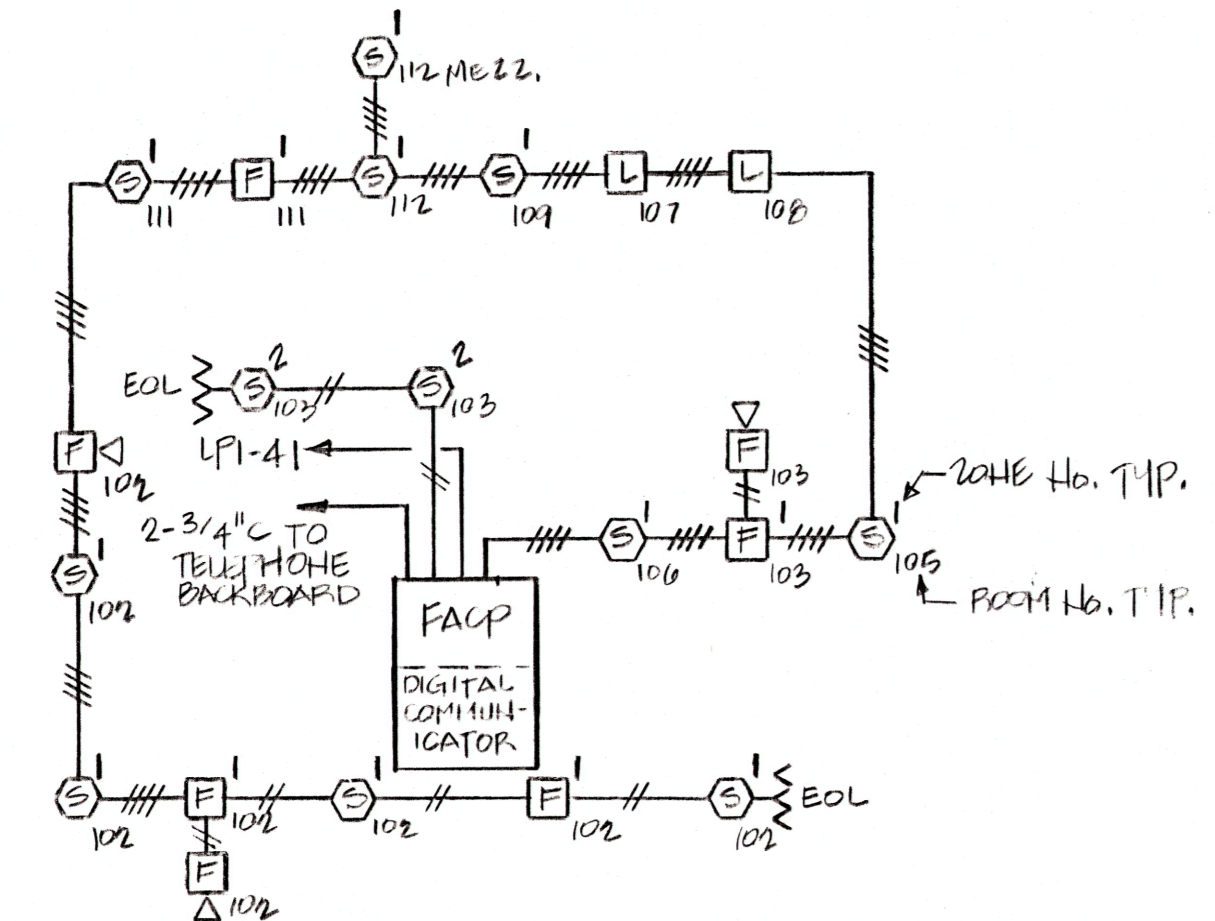
PANEL LP1 SHALL BE SERVICE ENTRANCE PATED

PANEL LP1		TYPE HQOD		MAIN BUS RATING 225A.		TRIP MAIN BREAKER	
VOLTAGE 120/208V. 3Ø, 4W.		No. OF POLES 3		(FMS) 575T, 415'S 10,000			
DESCRIPTION	VOLTS AMP'S	PHASE	LOAD (BY AMP'S)	NO.	DEVI	VOLTS AMP'S	DESCRIPTION
Ltg. 111	450	20	1170	2	1	720	RECEPT. 111
Ltg. 109,112	2000	20	1600	1	1	800	RECEPT. REF.
Ltg. 105,106,107,108	950	20	2030	1	20	1080	RECEPT. 102
Ltg. 103	520	20	1600	1	1	1080	RECEPT. 102
Ltg. 102	520	20	1600	1	1	1080	RECEPT. 102
Ltg. 102	650	20	650	1	1	20	SPACE
Ltg. 102	650	20	1910	1	20	1260	RECEPT. 106,107,108,109
Ltg. EXT. SOUTH	600	20	1100	1	1	500	RECEPT. EWC
Ltg. EXT. NORTH	600	20	1500	1	1	900	RECEPT. 105
* EXT. EMERG. Ltg.	600	20	960	2	2	360	RECEPT. 111
TRACK Ltg.	1440	20	1940	2	1	500	FUT. DISHWASH
BATH. 103	1440	20	1800	2	1	360	RECEPT. 111
TRACK Ltg.	1440	20	1440	2	1	20	SPACE
BATH 103	1440	20	1650	2	1	210	Ltg. WASH TUB
SPACE	-	20					SPACE
SPACE	-	20					
Ltg. 101,104	910	20	910				
Ltg. TYPE L	300	20	16100			15800	PANEL LP2
RECEPT. TEL. EX. REF.	180	20	11680	3	300	16500	
FACTP	300	20	11100	4	4	18800	

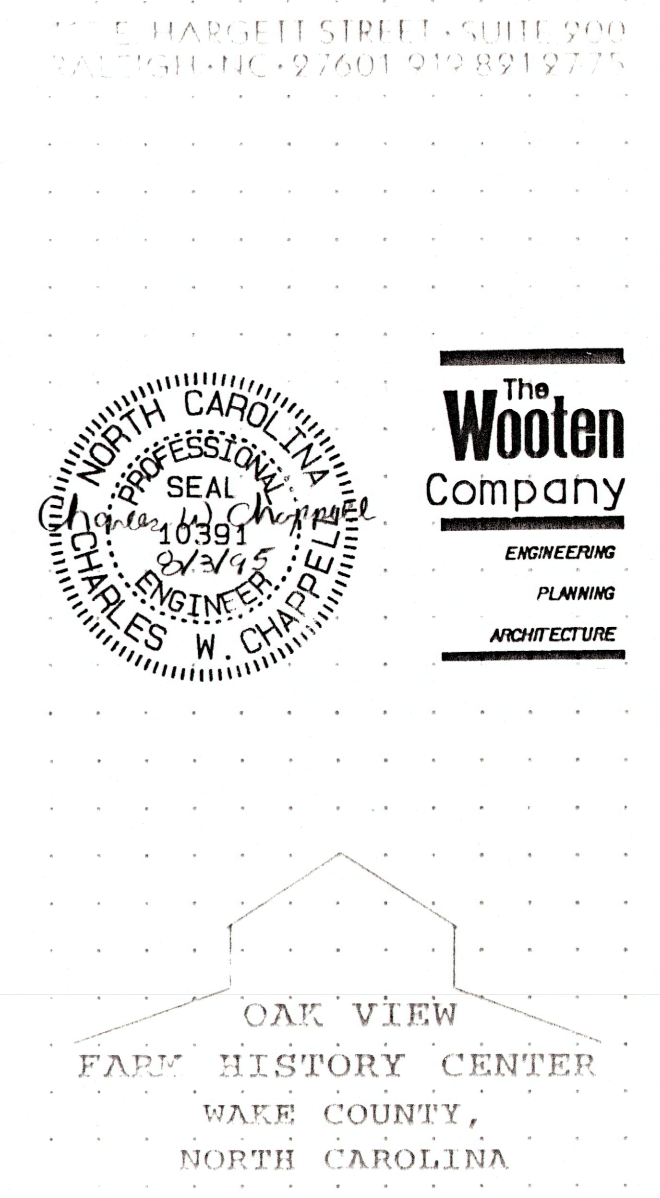
* PROVIDE LOCK ON TYPE HANDLE FOR CIR. BRK.

PANEL LP2		TYPE HQOD		MAIN BUS RATING 225A.		TRIP MAIN LUGS ONLY	
VOLTAGE 120/208V. 3Ø, 4W.		No. OF POLES 3		(FMS) 575T, 415'S 10,000			
DESCRIPTION	VOLTS AMP'S	PHASE	LOAD (BY AMP'S)	NO.	DEVI	VOLTS AMP'S	DESCRIPTION
EXH. FAN EF-1,2,3	300	20	2124	2	2	1824	HP-1
WATER HEATER	1500	20	3324	1	1	1824	↓
	1500	20	4800	1	2	3200	HP-2
↓	1500	20	4800	1	1	3200	↓
CEILING FANS	1050	20	4350	10	2	3200	HP-3
HEAT TAPE	100	15	3300	1	1	3300	↓
SEW. PUMP J.B.	100	20	2000	1	35	2000	AHU-1
SPACE			2000	1	1	2000	↓
↓			3750	1	2	3750	AHU-2
TRACK Ltg.	1485	20	5235	2	2	3750	↓
EXH. 102	1485	20	5235	2	2	3750	AHU-3
TRACK Ltg.	1620	20	5400	2	2	3750	↓
EXH. 102	1620	20	1620	2	2		
TRACK Ltg.	1575	20	1575	2	2		
EXH. 102	1575	20	1575	2	2		
SPACE							

** PROVIDE G.F.I. TYPE CIRCUIT BREAKER



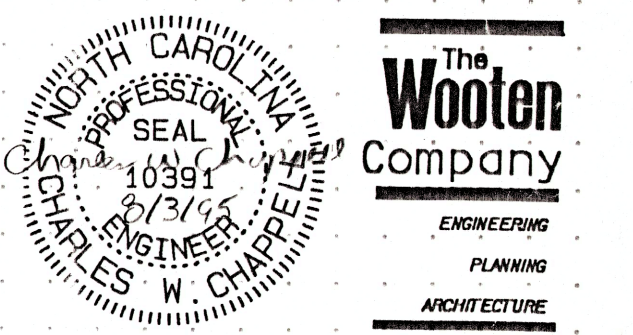
1 FIRE ALARM RISER DIAGRAM
E-1 N.T.S.



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NORTH CAROLINA

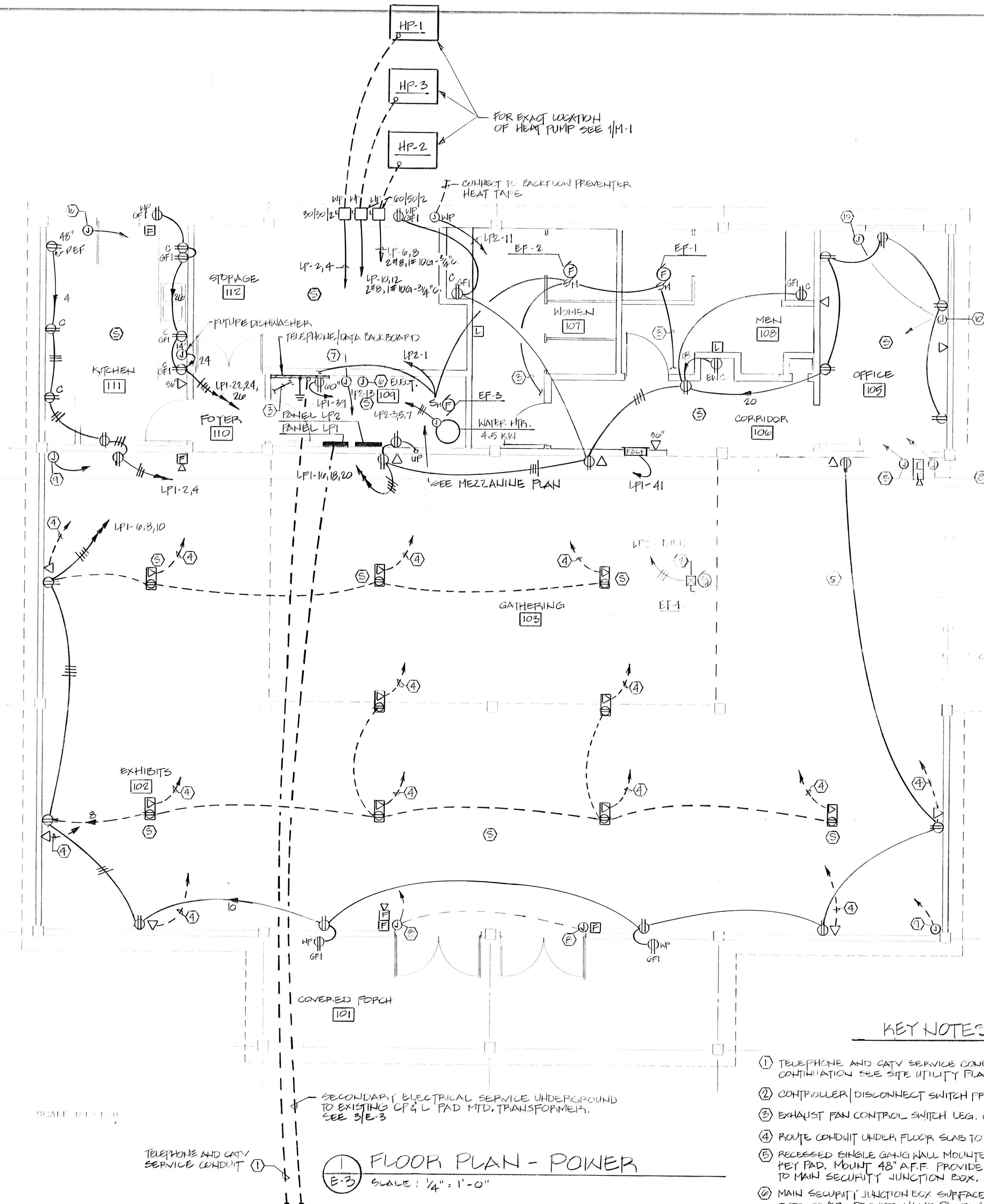
ELECTRICAL ABBREVIATIONS

- AFF - ABOVE FINISHED FLOOR
- C - CONDUIT
- G - EQUIPMENT GROUNDING CONDUCTOR
- Φ - PHASE
- P - POLE
- V - VOLTS
- WP - WEATHER PROOF
- GFI - GROUND FAULT CIRCUIT INTERRUPTER
- DN - DOWN
- EWC - ELECTRIC WATER COOLER

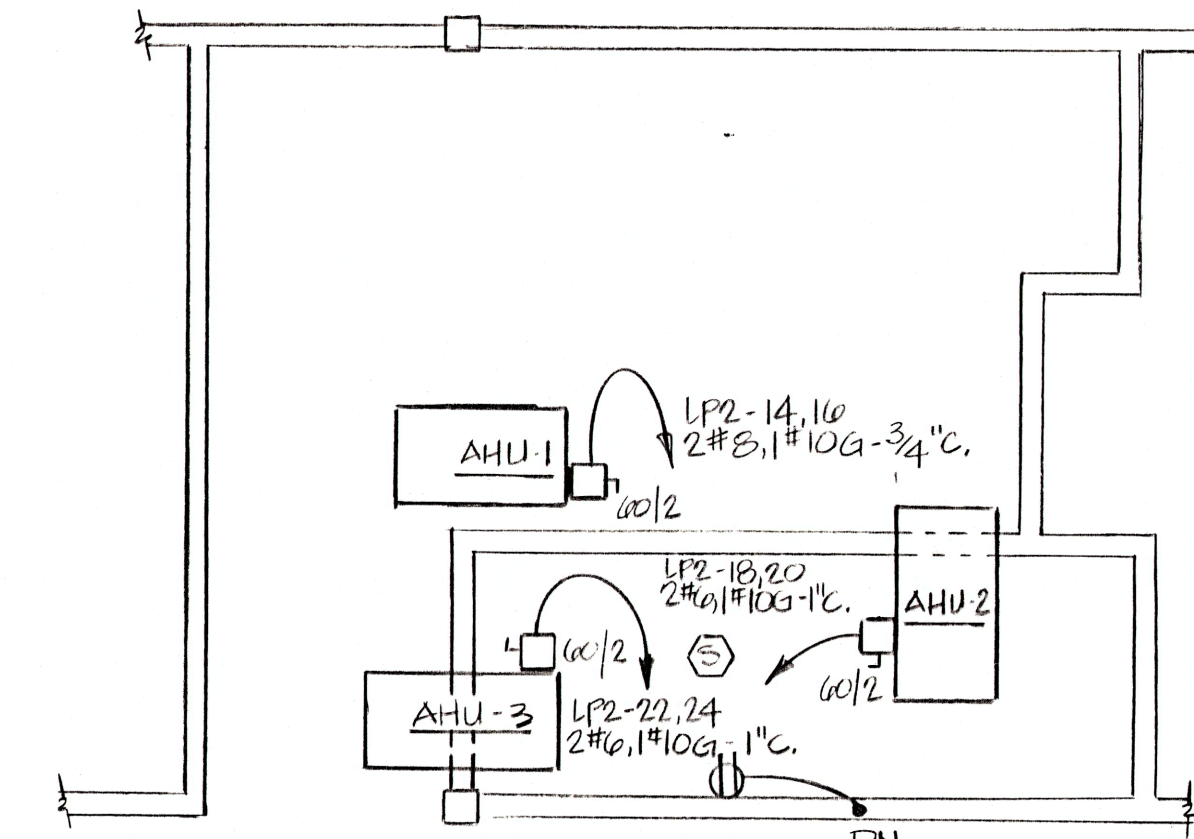


The Wooten Company
ENGINEERING
PLANNING
ARCHITECTURE

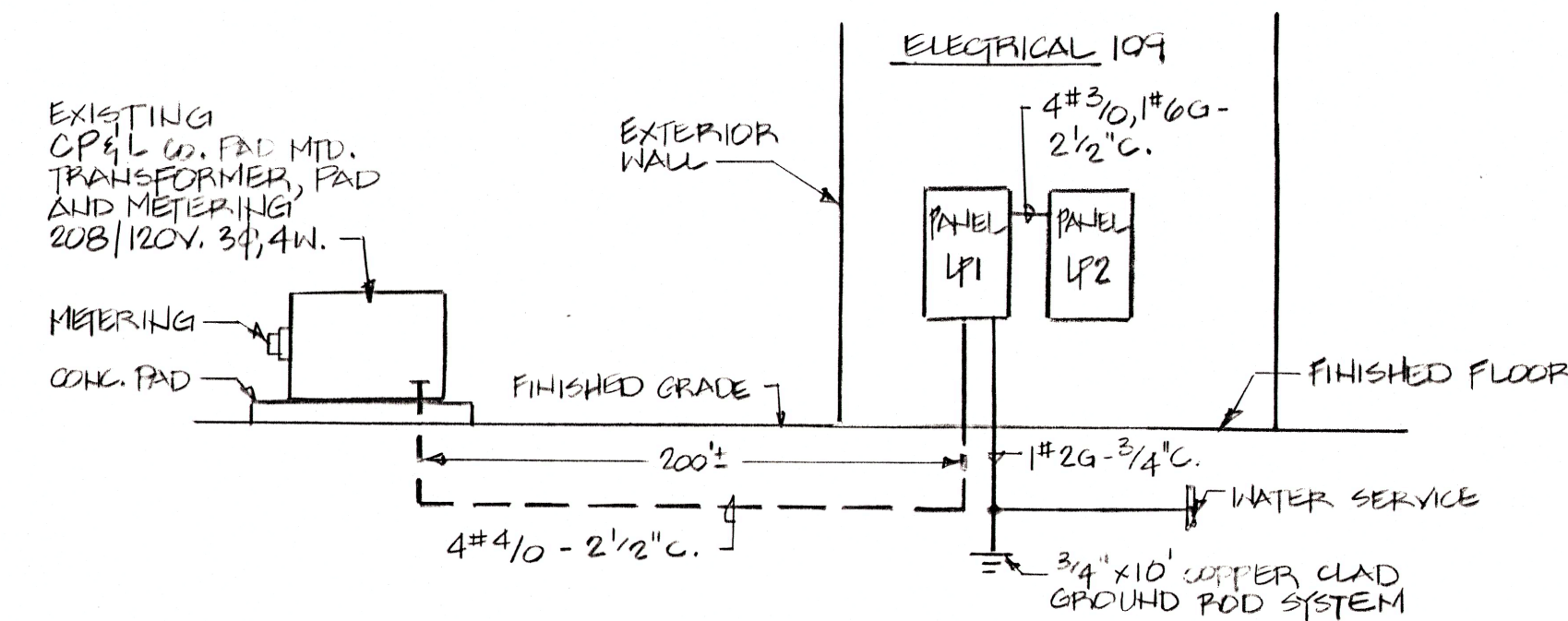
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NORTH CAROLINA



1 FLOOR PLAN - POWER
E-3 SCALE: 1/4" = 1'-0"



2 MEZZANINE PLAN - POWER
E-3 SCALE: 1/4" = 1'-0"



3 ELECTRICAL RISER DIAGRAM
E-3 N.T.S.

KEY NOTES (APPLY THIS SHEET ONLY)

- ① TELEPHONE AND CATV SERVICE CONDUIT 2-2" UNDERGROUND. FOR CONTINUATION SEE SITE UTILITY PLAN.
- ② CONTROLLER/DISCONNECT SWITCH PROVIDED WITH EF-4.
- ③ EXHAUST FAN CONTROL SWITCH LEG, CONNECT TO LIGHTING CONTROL SWITCH.
- ④ ROUTE CONDUIT UNDER FLOOR SLABS TO TELEPHONE/DATA BACKBOARD.
- ⑤ RECESSED SINGLE GANG WALL MOUNTED OUTLET BOX FOR FUTURE SECURITY SYST. KEY PAD. MOUNT 48" A.F.F. PROVIDE BLANK COVER AND 3/4" C. WITH PULL WIPE TO MAIN SECURITY JUNCTION BOX.
- ⑥ MAIN SECURITY JUNCTION BOX SURFACE MOUNTED 72" A.F.F. 6" SQ. x 4" D WITH SCREEN TYPE COVER. PROVIDE NAME PLATE "SECURITY SYSTEM".
- ⑦ SECURITY SYSTEM POWER JUNCTION BOX SURFACE MOUNTED 72" A.F.F.
- ⑧ SINGLE GANG WALL MOUNTED OUTLET BOX FOR FUTURE SECURITY SYSTEM DOOR CONTACTS. MOUNT 9'-0" A.F.F. PROVIDE BLANK COVER PLATE AND 3/4" C. WITH PULL WIPE TO MAIN SECURITY JUNCTION BOX.
- ⑨ RECESSED SINGLE GANG WALL MOUNTED OUTLET BOX FOR FUTURE MOTION SENSOR. MOUNT 90" A.F.F. PROVIDE BLANK COVER PLATE AND 3/4" C. WITH PULL WIPE TO MAIN SECURITY JUNCTION BOX.
- ⑩ RECESSED SINGLE GANG WALL MOUNTED OUTLET BOX FOR FUTURE SECURITY SYSTEM DOOR OR WINDOW CONTACTS. MOUNT 90" A.F.F. PROVIDE BLANK COVER PLATE AND 3/4" C. WITH PULL WIPE TO MAIN SECURITY JUNCTION BOX.

Date: 12-1-15
Checked:
Drawn: