

NEWTON COUNTY WATER & SEWER AUTHORITY LOBBY ADDITION

AT
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA 30016

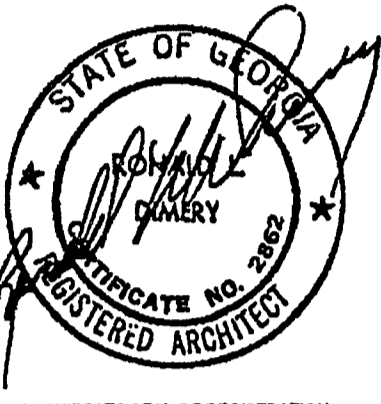
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E-1	ELECTRICAL PLANS



DIMERY ASSOCIATES
ARCHITECTS
P.O. BOX 310
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FAX: (770) 786-5284

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ARCHITECTS SEAL OF REGISTRATION

DATE	BY	REVISION

PLAN REVIEW DATA

SCOPE OF WORK:
NEW WOOD FRAME WITH BRICK VENEER SINGLE STORY ADDITION TO AN EXISTING TWO-STORY OFFICE BUILDING.

PROJECT AREA:
ADDITION HEIGHT: APPROX. 17'-0"
ADDITION AREA: 292 SQ. FT. GROSS

TYPE OF CONSTRUCTION:
IBC 2000: TYPE V-B UNSPRINKLED

OCCUPANCY CLASSIFICATION:
NFPA 101 LSC: EXISTING BUSINESS OCCUPANCY

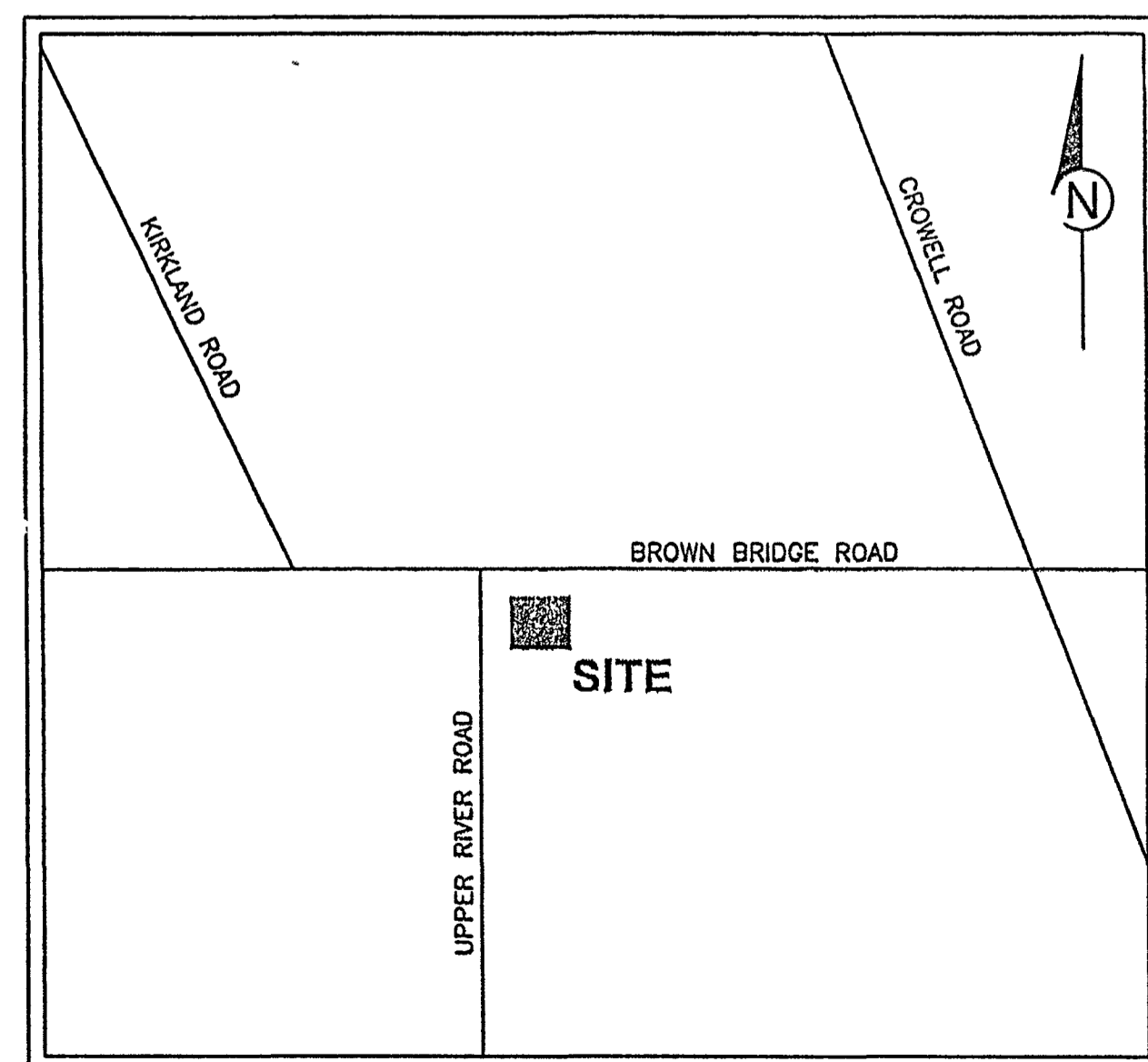
OCCUPANCY CALCULATION:
ADDITION: 292 / 100 NET = 3 PERSONS

EGRESS CALCULATIONS:
EXISTING EGRESS FOR BUILDING REMAINS COMPLIANT

STRUCTURAL DESIGN LOADS:
FLOOR LIVE LOAD: 100 PSF (SLAB ON GRADE)
ROOF LIVE LOAD: 20 PSF
SNOW LOAD: 5 PSF
BASIC WIND SPEED: 90 MPH
SEISMIC DESIGN CATEGORY: C
SEISMIC SITE CLASS: D
FLOOD DESIGN SATA: PROPERTY NOT LOCATED IN A FLOOD AREA

APPLICABLE BUILDING CODES:
SBCCI STANDARD BUILDING CODE (INTERNATIONAL BUILDING CODE), 2006 EDITION, WITH 2007 GEORGIA AMMENDMENTS
SBCCI STANDARD MECHANICAL CODE (INTERNATIONAL MECHANICAL CODE), 2006 EDITION, WITH 2007 GEORGIA AMMENDMENTS
NATIONAL ELECTRICAL CODE, 2005 EDITION, WITH 2006 GEORGIA AMMENDMENTS
INTERNATIONAL FIRE CODE, 2006 EDITION, WITH 2007 GEORGIA AMMENDMENTS
INTERNATIONAL ENERGY CONSERVATION CODE, 2000 EDITION, WITH GEORGIA AMMENDMENTS 2003, 2005, 2006 & 2007
NFPA 101 LIFE SAFETY CODE, 2000 EDITION
GEORGIA ACCESSIBILITY CODE FOR BUILDINGS & FACILITIES

PROJECT LOCATION MAP



CONTACT LIST

ARCHITECTURAL:
RONALD L. DIMERY
DIMERY ASSOCIATES/ARCHITECTS
P.O. BOX 310
OXFORD, GEORGIA 30054
TEL#: 770-786-5276
FAX#: 770-786-5284

MECHANICAL:
RICK WRIGHT
VALTEC ENTERPRISES
136 PINECREST AVENUE
DECATUR, GEORGIA 30030
TEL#: 404-371-1040
FAX#: 404-371-1040

ELECTRICAL:
TRAVIS LASTINGER
LASTINGER & ASSOCIATES, INC.
6290 ABBOTTS BRIDGE ROAD
SUITE 401
DULUTH, GEORGIA 30097
TEL#: 770-622-7023
FAX#: 770-322-7025

OWNER:
NEWTON COUNTY WATER & SEWERAGE AUTHORITY
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA 30016
TEL#: 770-385-3900
FAX#: 770-385-9966

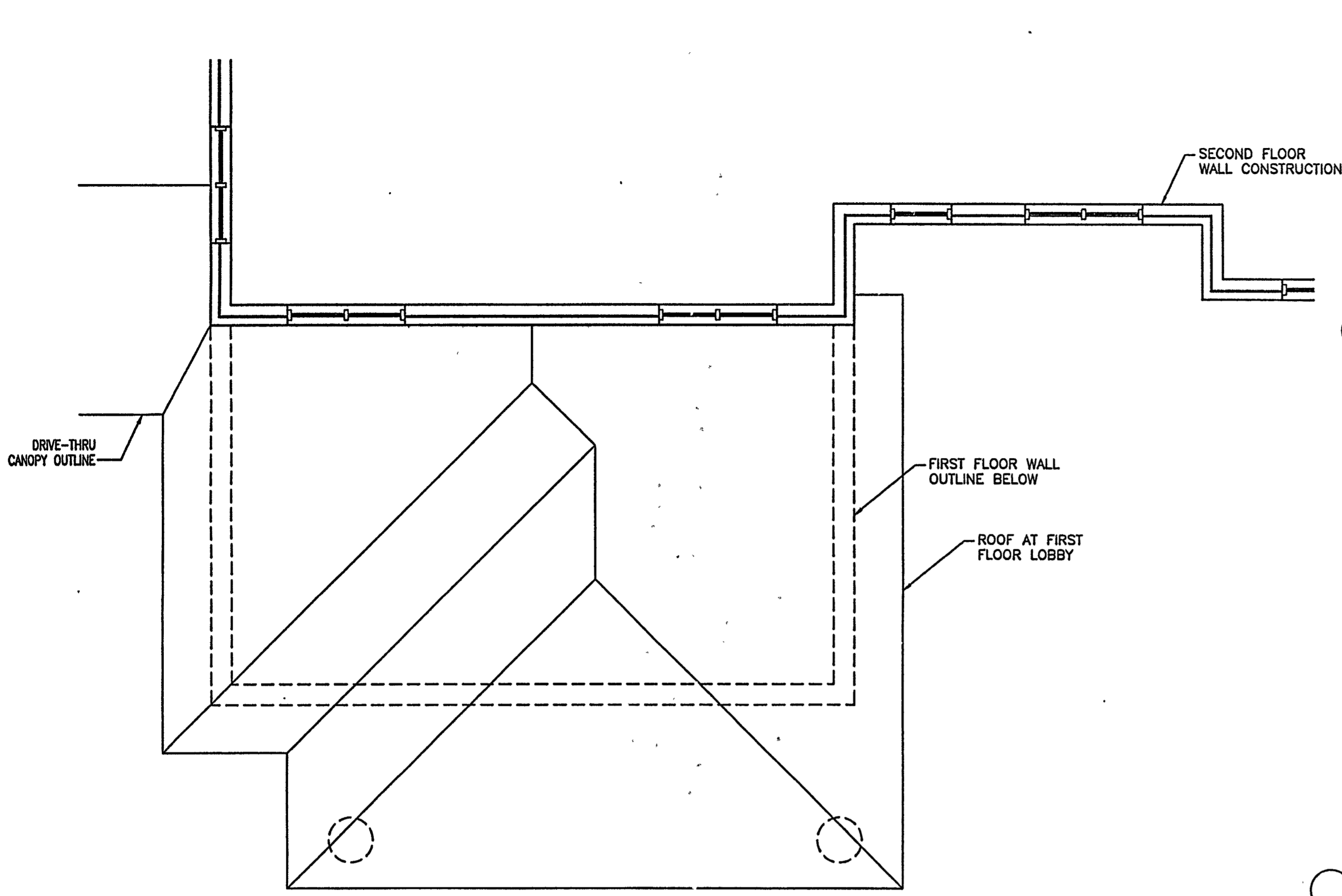
(24 HOUR CONTACT)
TODD SWANSON
NEWTON COUNTY WATER & SEWER AUTHORITY
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA 30016
TEL#: 678-878-7488

NEWTON COUNTY WATER & SEWER
AUTHORITY
LOBBY ADDITION
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA 30016

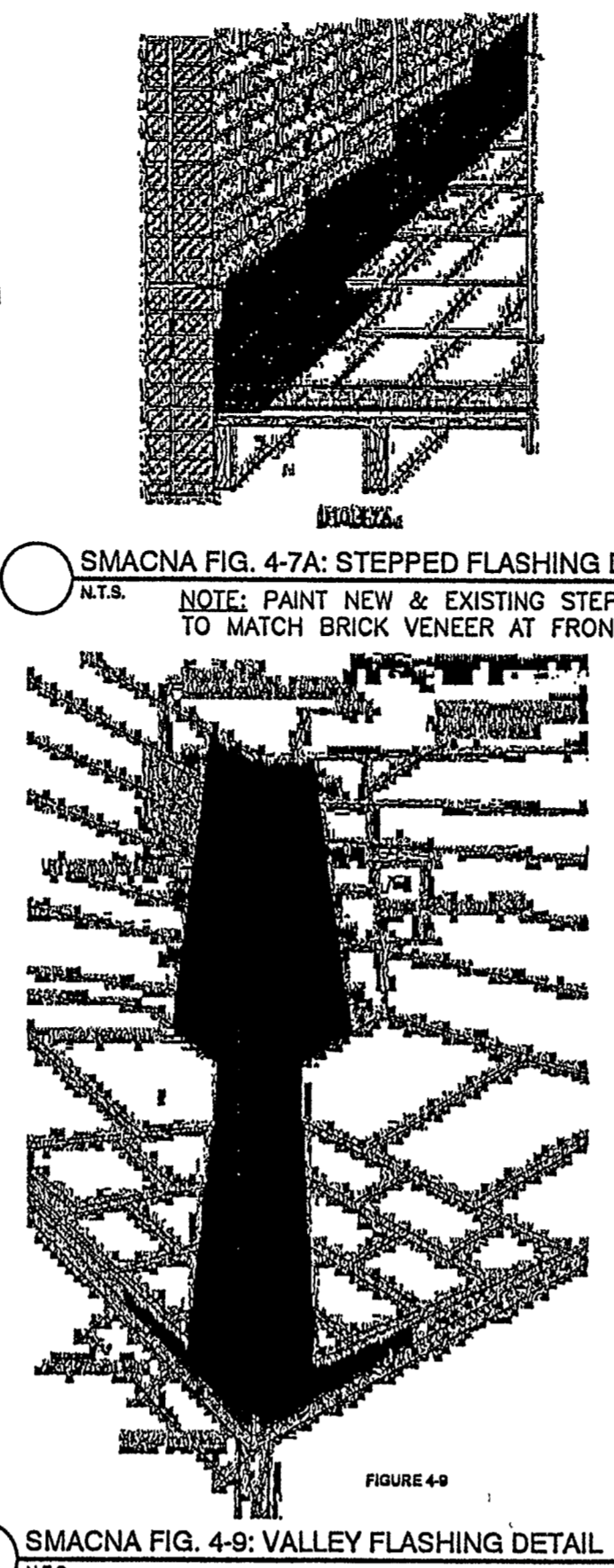
As-Built

NOTE:
THE ARCHITECT WAS RETAINED FOR THE DESIGN OF THIS PROJECT ONLY.
FIELD ADMINISTRATION OF THE CONSTRUCTION IS NOT PART OF THE ARCHITECT'S DUTIES.

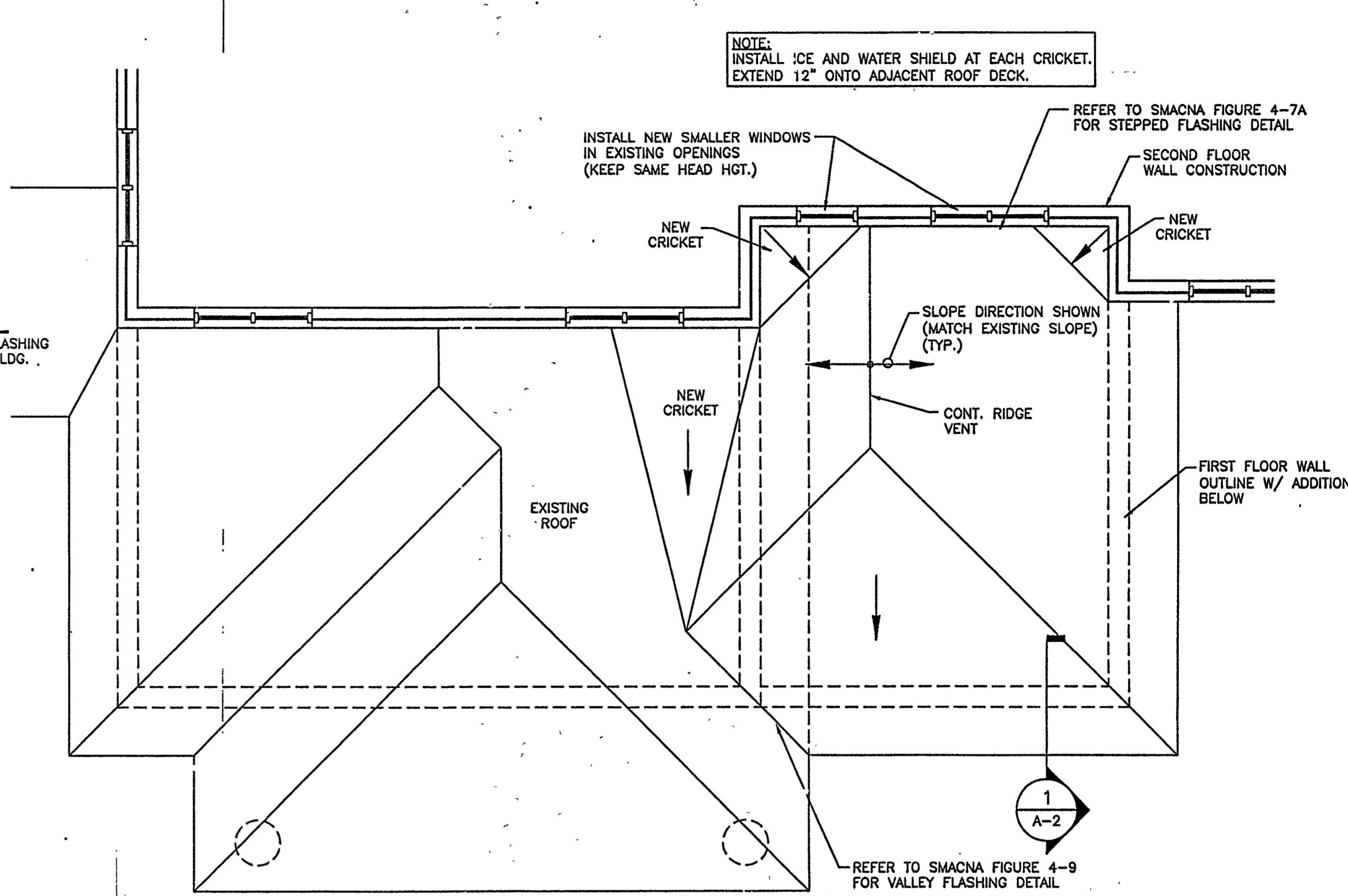
SHEET TITLE: COVER SHEET
DATE: 9-10-2007
DRAWN BY: KRB
PROJECT NO: 07117
SHEET NO: CS-1
CHKD. BY: OF



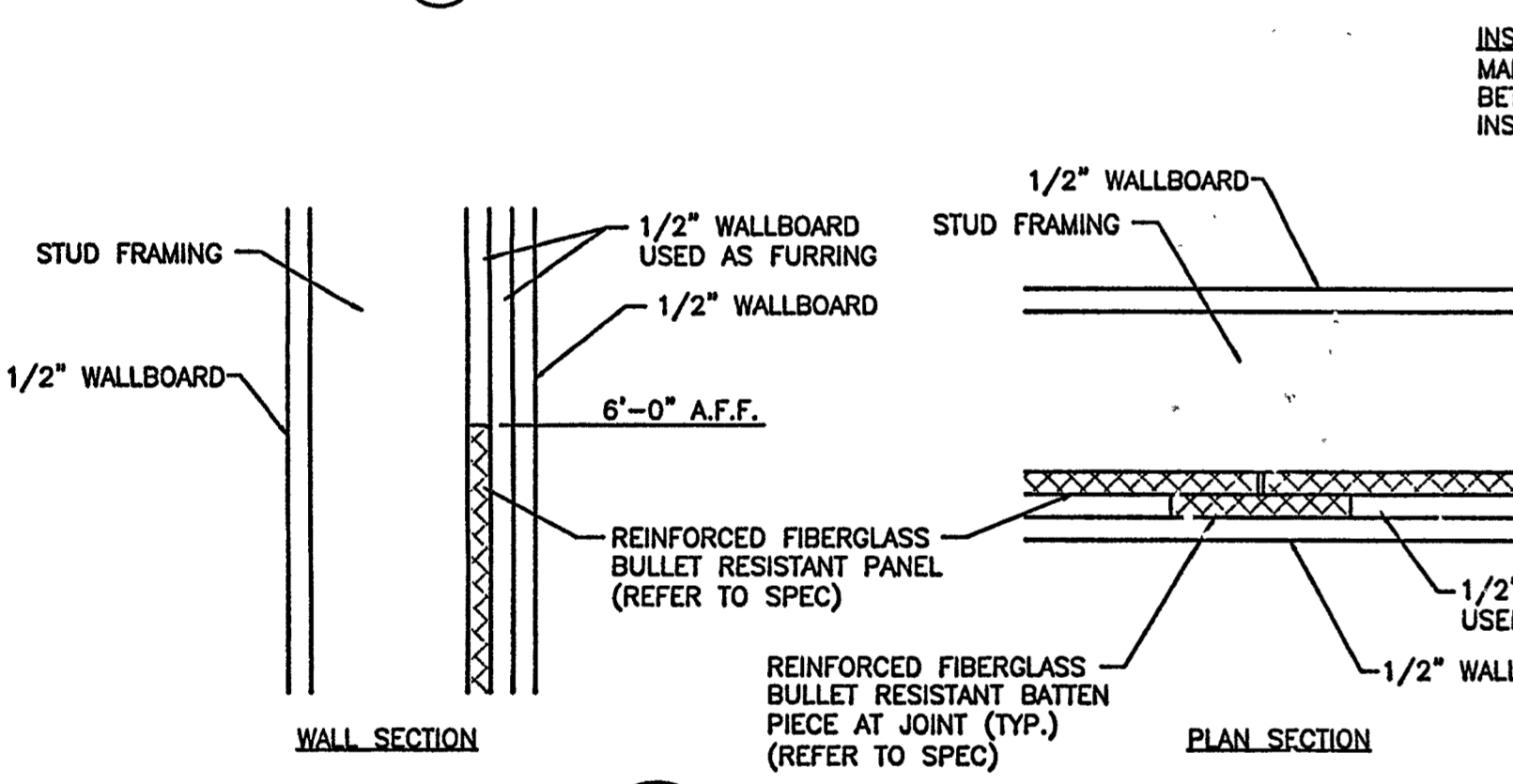
FIRST FLOOR ROOF PLAN: AS-BUILT
1/4" = 1'-0"



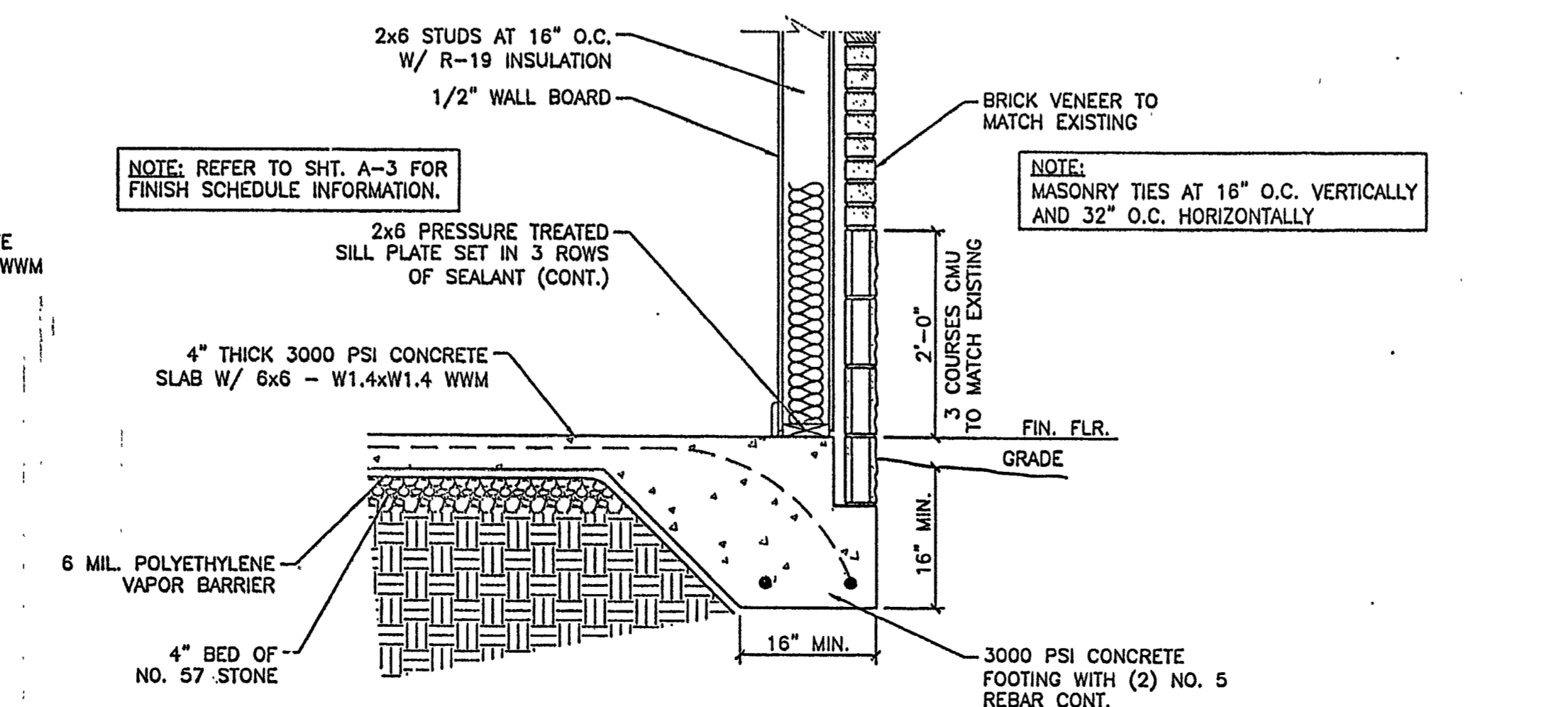
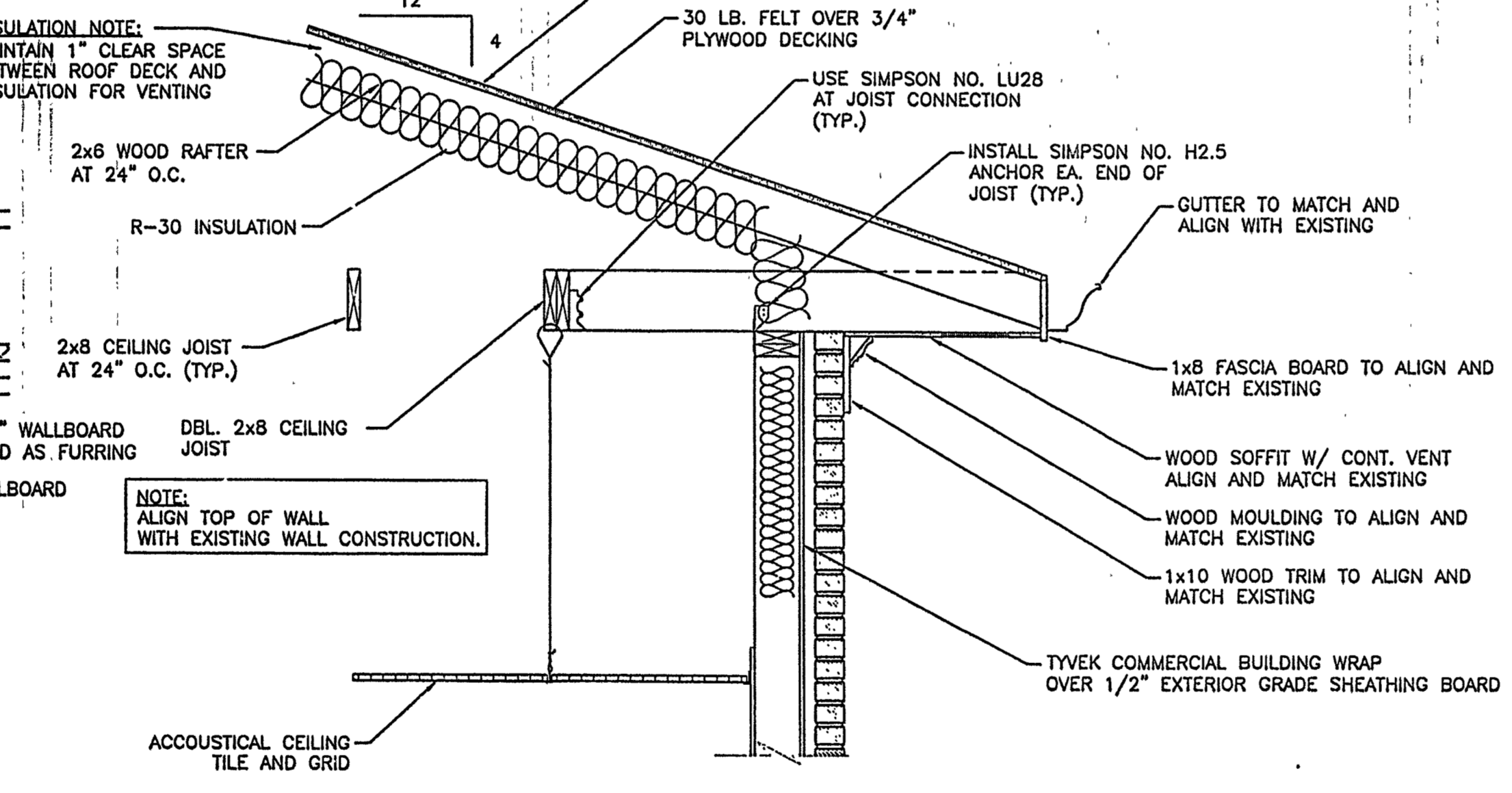
SMACNA FIG. 4-9: VALLEY FLASHING DETAIL
N.T.S. NOTE: PAINT VALLEY FLASHING TO MATCH ROOF COLOR.



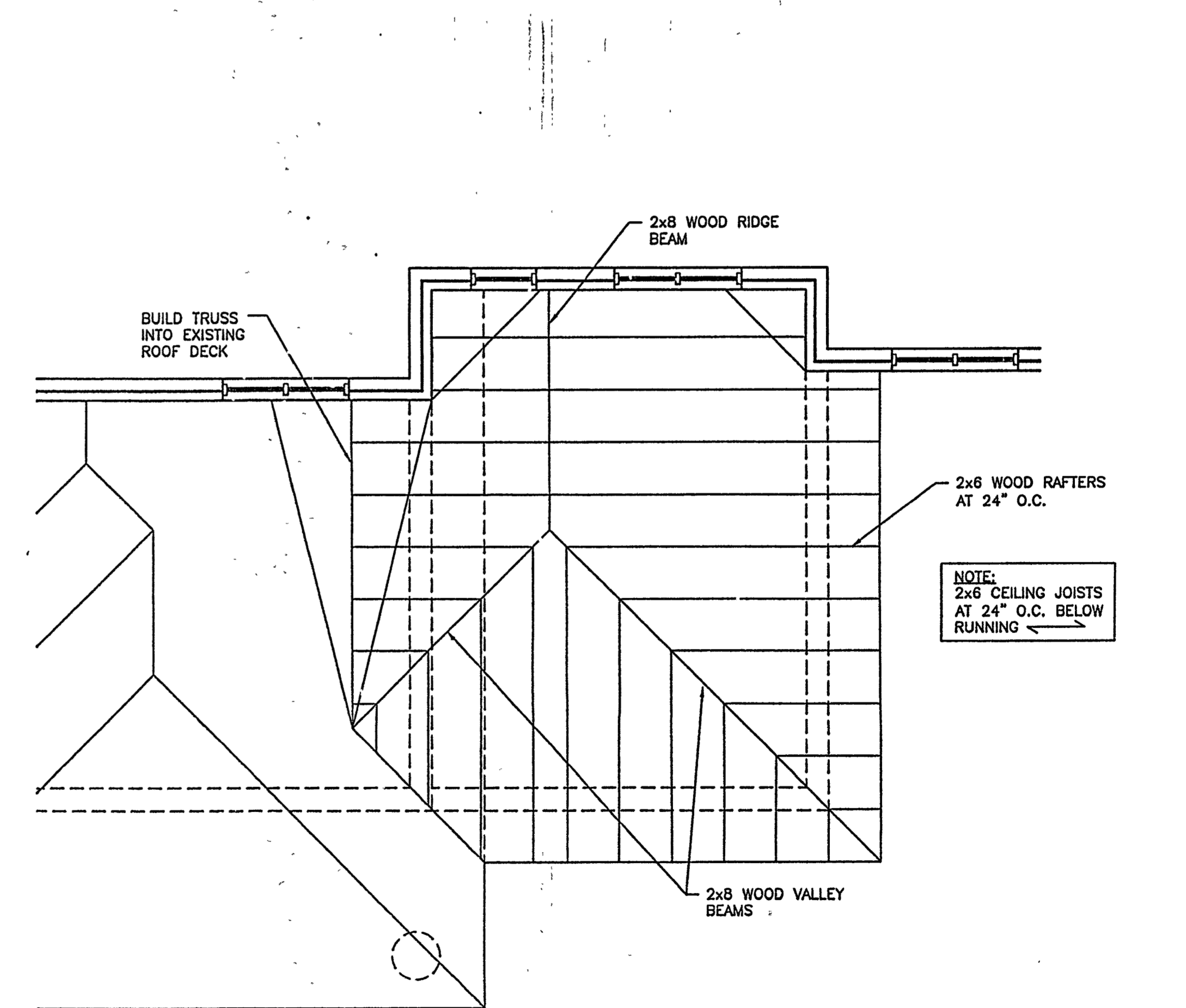
FIRST FLOOR ROOF PLAN: ADDITION
1/4" = 1'-0"



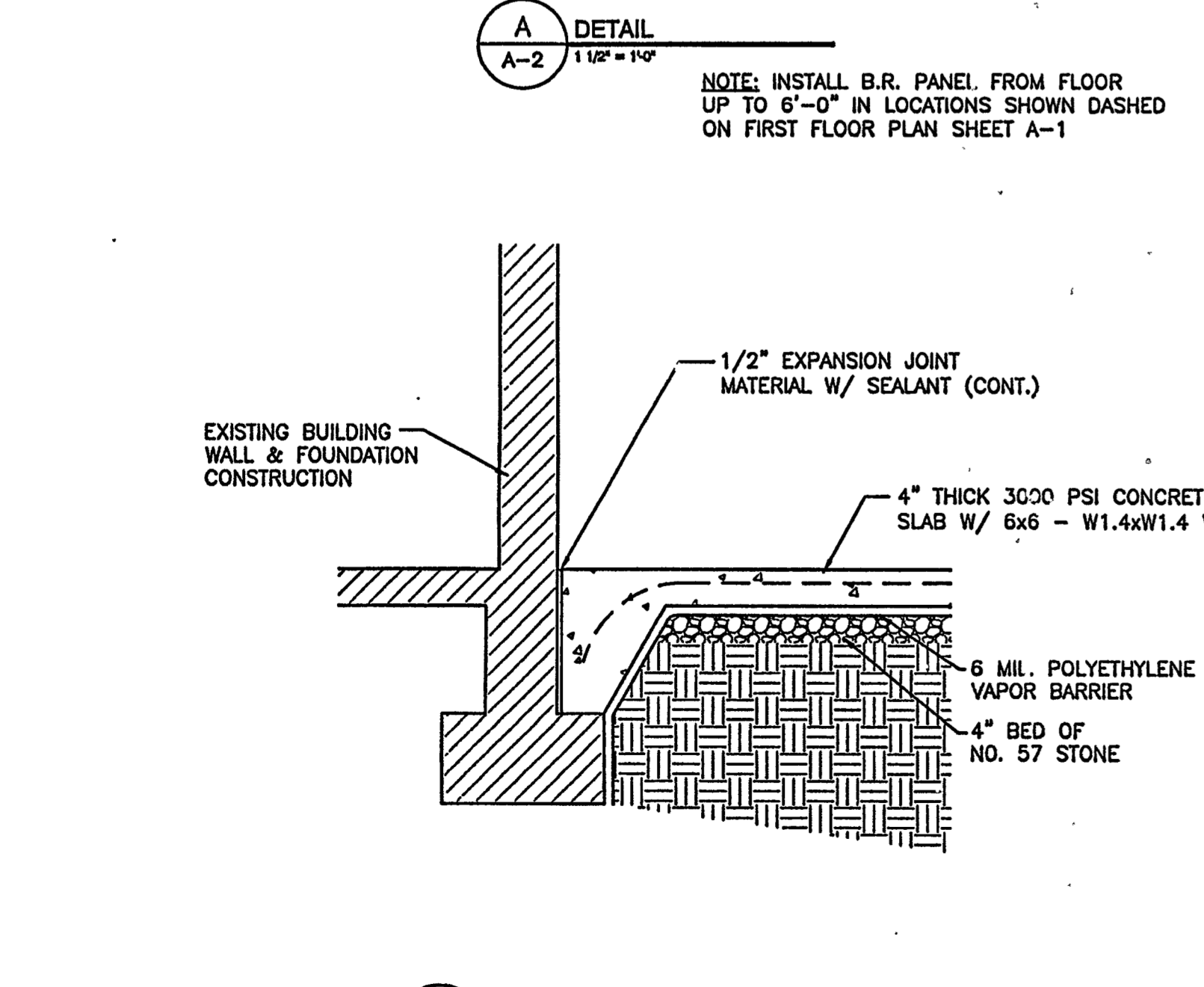
DETAIL A-2
1 1/2" = 1'-0"
NOTE: INSTALL B.R. PANEL FROM FLOOR UP TO 6'-0" IN LOCATIONS SHOWN DASHED ON FIRST FLOOR PLAN SHEET A-1



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



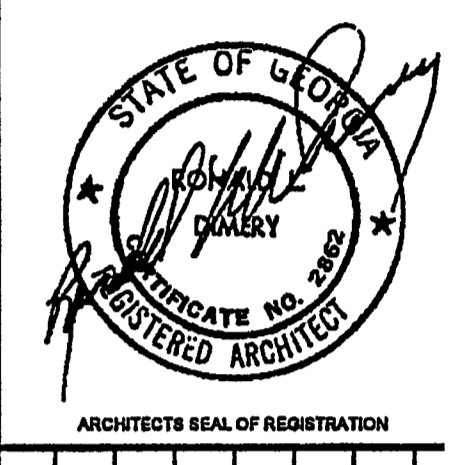
ROOF FRAMING PLAN: ADDITION
1/4" = 1'-0"



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

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DATE	
ISSUE DESCRIPTION	

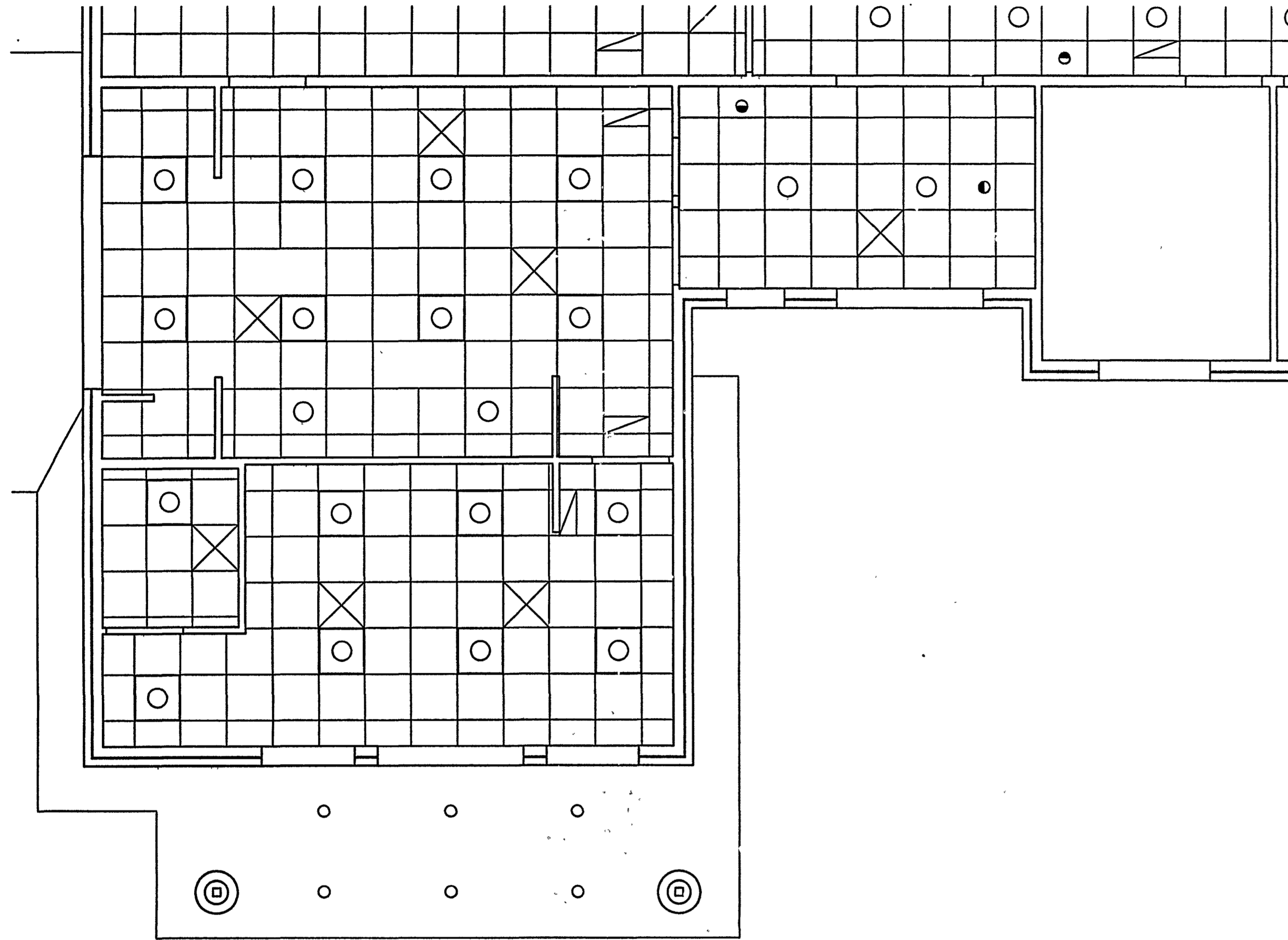
NEWTON COUNTY WATER & SEWER AUTHORITY LOBBY ADDITION
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA 30016

ROOF PLANS & BUILDING SECTIONS

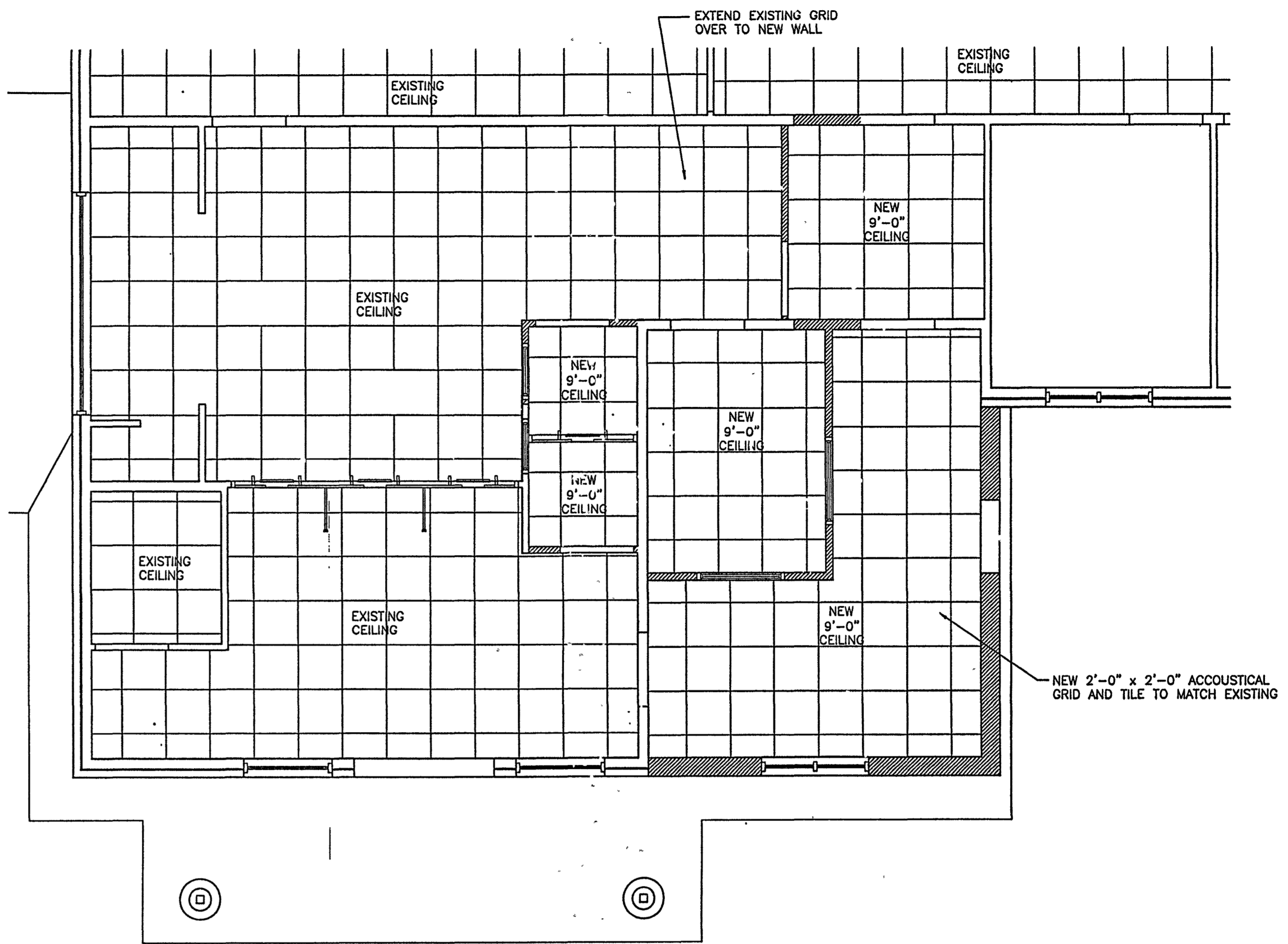
DATE: 9-10-2007
DUAL BY: AAB
PROJECT NO: 07117
CHKD. BY: OP:
SHEET NO: **A-2**



BY	
DATE	



REFLECTED CEILING PLAN: AS-BUILT
 1/4" = 1'-0"



REFLECTED CEILING PLAN: ADDITION
 1/4" = 1'-0"

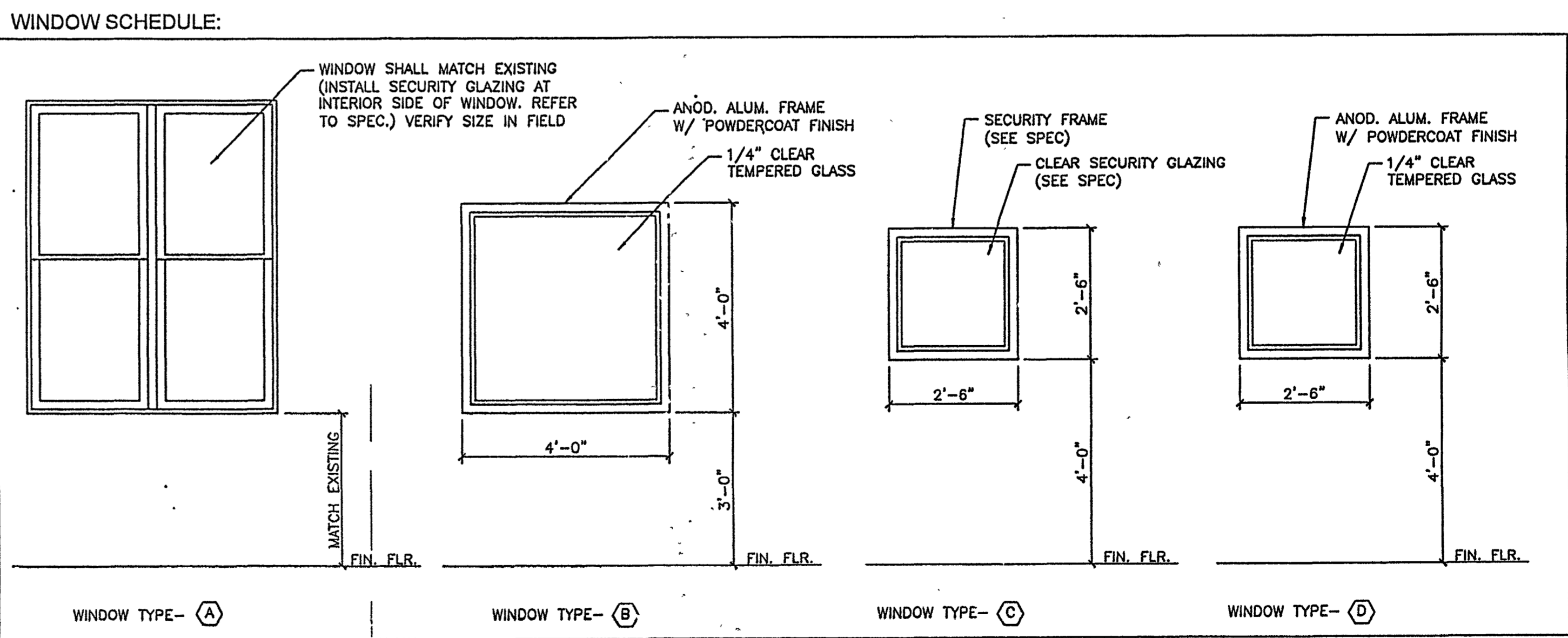
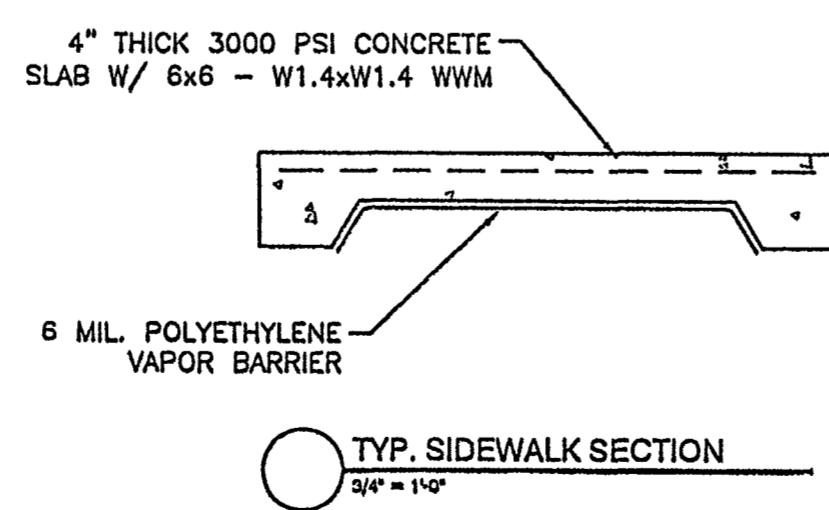
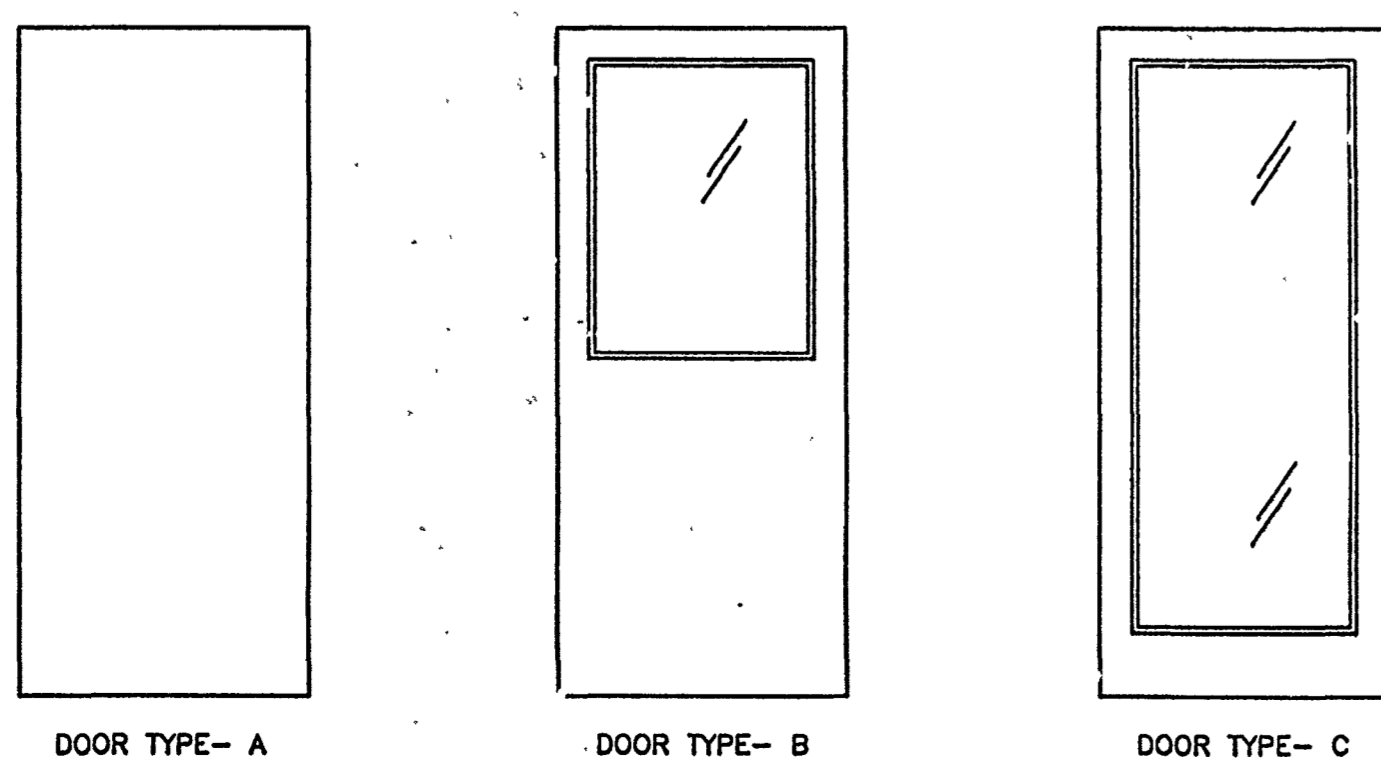
NOTE: REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR NEW & EXISTING FIXTURE LAYOUTS.

NO.	NAME	FLOOR		WALL		REMARKS
		FINISH	BASE	MAT'L.	FINISH	
100	EXISTING CUSTOMER LOBBY	-	-	-	-	EXISTING FINISHES TO REMAIN
101	ROOM	MATCH EXISTING	MATCH EXISTING	WALLBOARD	PAINT	
102	RECEPTION	MATCH EXISTING	MATCH EXISTING	WALLBOARD	PAINT	
103	EXISTING LOBBY	-	-	-	-	EXISTING FINISHES TO REMAIN
104	ROOM	MATCH EXISTING	MATCH EXISTING	WALLBOARD	PAINT	
105	EXISTING CASHIER AREA	-	-	-	-	EXISTING FINISHES TO REMAIN
106	EXISTING CUSTOMER RESTROOM	-	-	-	-	EXISTING FINISHES TO REMAIN

NOTES: NEW FINISHES SHALL MATCH EXISTING IN TEXTURE AND COLOR

DOOR NO.	MAT'L.	WIDTH	HGT.	THK.	GLAZING	TYPE	FRAME	REMARKS:
D01	H.METAL/GLASS	3'-0"	7'-0"	1 3/4"	BR	C-BR	H.METAL	DOOR SHALL HAVE ELEC. RELEASE MECHANISM
D02	S.C. WOOD/GLASS	3'-0"	7'-0"	1 3/4"	1/4" CT	B	H.METAL	STAIN TO MATCH EXISTING, REUSE DOOR, FRAME & ELEC. RELEASE
D03	H.METAL	3'-0"	7'-0"	1 3/4"	-	A-BR	H.METAL	DOOR SHALL HAVE ELEC. RELEASE MECHANISM, FINISH SHALL MATCH EXIST. EXIT DOORS
D04	S.C. WOOD/GLASS	3'-0"	7'-0"	1 3/4"	1/4" CT	B	H.METAL	DOOR SHALL HAVE ELEC. RELEASE MECHANISM
D05	ALUM/GLASS	3'-0"	7'-0"	1 3/4"	1/4" CT	C	ALUM.	REUSE 1/2 OF EXISTING DOOR AND REWORK FRAME
D06	S.C. WOOD	-	-	-	-	-	-	REUSE EXISTING DOOR, FRAME, HARDWARE & ELEC. RELEASE
D07	S.C. WOOD	3'-0"	7'-0"	-	-	-	-	CASED OPENING
D08	S.C. WOOD	-	-	-	-	-	-	REUSE EXISTING DOOR & HARDWARE FROM DEMO IN NEW HOLLOW METAL FRAME

NOTES: 1) "CT" - CLEAR TEMPERED.
 2) "H.METAL" - HOLLOW METAL DOOR.
 3) "S.C. WOOD" - SOLID CORE WOOD.
 4) "BR" - BULLET RESISTANT DOOR INCLUDED IN SECURITY PACKAGE

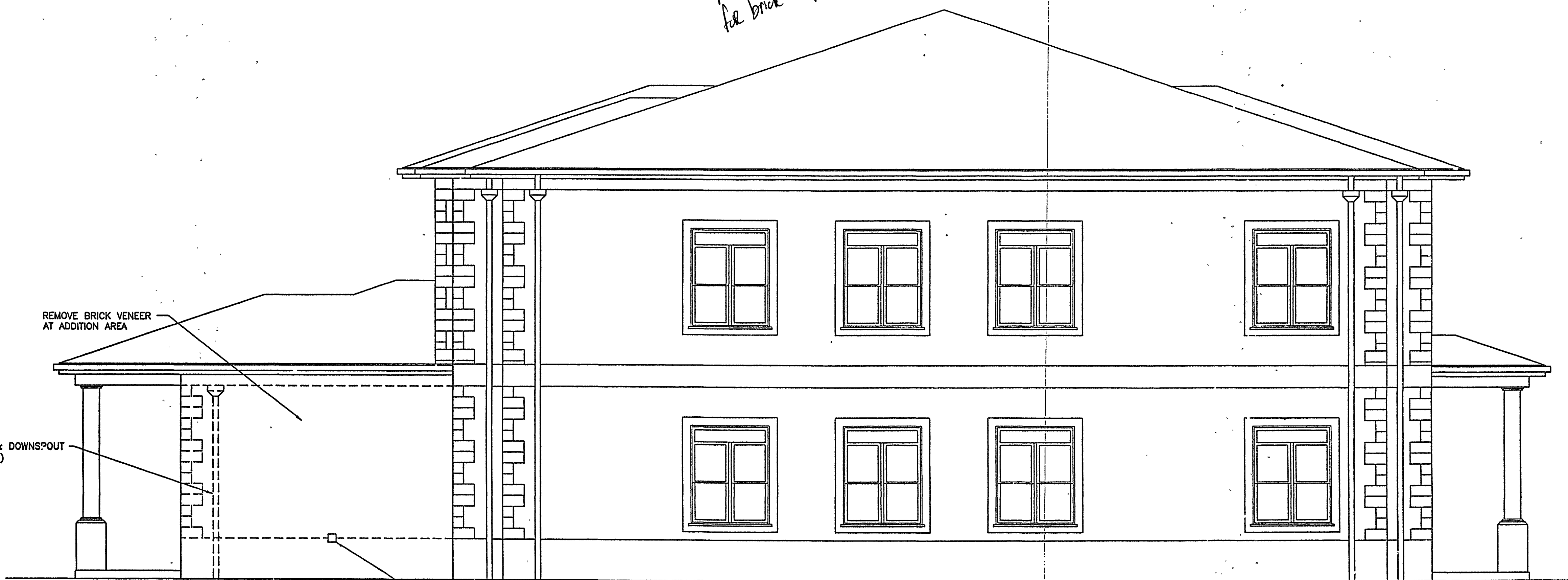




A NORTH ELEVATION: AS-BUILT / DEMO
A-4 1/4" = 1'-0"

REMOVE WINDOWS & PARTIAL SURROUND
 REMOVE WINDOW & SURROUND
 REMOVE DOOR FRAME, TRANSOM & SURROUND
 REMOVE LIGHTS AT EACH SIDE OF DOOR
 REMOVE BRICK VENEER AT ADDITION AREA

Added Post & steel for brick support

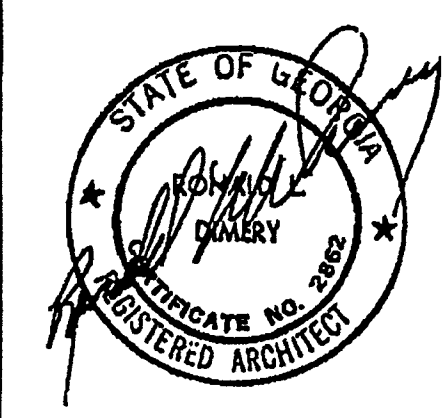


B WEST ELEVATION: AS-BUILT / DEMO
A-4 1/4" = 1'-0"

REMOVE BRICK VENEER AT ADDITION AREA
 REMOVE SCUPPER & DOWNSPOUT (REUSE AT ADDITION)
 RELOCATE HOSE BIB TO WALL AT NEW ADDITION (REFER TO ELEVATION B/A-5)

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ARCHITECTS SEAL OF REGISTRATION

DATE	
BY	
ISSUE DATE/REVISION	

NEWTON COUNTY WATER & SEWER AUTHORITY
LOBBY ADDITION
 11325 BROWN BRIDGE ROAD
 COWINGTON, GEORGIA 30016

SHEET TITLE:
AS-BUILT/DEMO EXTERIOR ELEVATIONS

DATE: 9-10-2007
 DWA BY: AAB
 PROJECT NO: 07117
 SHEET NO: **A-4**
 CHKD BY: CP



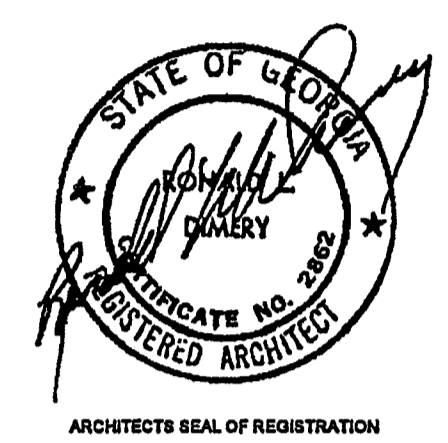
A NORTH ELEVATION: ADDITION
1/4" = 1'-0"



B WEST ELEVATION: ADDITION
1/4" = 1'-0"

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BY	

NEWTON COUNTY WATER & SEWER AUTHORITY
LOBBY ADDITION
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA 30016

ADDITION EXTERIOR ELEVATIONS

DATE: 9-10-2007
DRAWN BY: AAB
PROJECT No: 07117
SHEET No: **A-5**

SPECIFICATIONS

- Work shall be in accordance with Codes and Regulations of the County of Newton and the State of Georgia.
- Payments, when approved, will be made within fifteen days of receipt of application for payment. Each month contractor shall submit three (3) notarized, completed copies of AIA Document G702, Application and Certificate for Payment, and AIA Document G703, Continuation Sheet. An affidavit (copy of which will be issued by owner) shall be completed, notarized, and attached to the application for payment. Prior to final payment the contractor as well as his sub-contractors shall complete and submit this affidavit and a guarantee form (copy of which will be issued by owner) to receive payment. After Substantial Completion of Work Certificate, Occupancy Permit issued by the proper governmental agencies, all Punch List items corrected, and all final papers submitted and approved, then all of the remaining amount of said retainage shall be paid in full to the Contractor.
- Contractor shall carry and maintain such insurance, also including Workmen's Compensation, sufficient to protect Owner, Architect, and Contractor from any and all claims for property damage or personal injury, including death, which may arise out of operations under the Contract. Contractor shall have Certificates of Insurance, with Notification Clause, provided to Owner prior to commencement of any work. Contractor shall obtain the same certificates of Insurance from all major Sub-Contractors and submit same to owner prior to the Sub-Contractor starting work.
- Contract shall be AIA Form A-105-2007 with stipulated sum.
- Contractor shall protect all persons from injury, shall comply with Workman's Compensation Laws and OSHA Rules and also require sub-contractors to comply.
- Contractor shall protect the site from damage, of any and all kind(s), during the construction period; shall store materials only in designated areas; and shall keep area clean of debris. Contractor shall maintain integrity and security of the building at all times. Remove debris from site as quickly as reasonable.
- Contractor shall control soil erosion, install and maintain silt fence and hay bales throughout construction and shall protect the adjacent properties from run off from construction site.
- Contractor shall be responsible for all persons involved in the project. Cooperate with Owner in use of parking and storage locations. Building shall remain open during construction. Contractor shall protect the Public and Employees as well as coordinate work with Owner. Exterior Walls, Interior Walls in Addition, Doors, Hardware and Roof shall be completed prior to cutting of openings in Existing Exterior Wall.
- Contractor shall verify all dimensions and requirements and conditions prior to the submission of the Bid, prior to the commencement of work, and during work in progress, and shall be responsible for the coordination of all Sub-Contractors and the Owner during the construction process.
- All work shall be guaranteed for a period of one (1) year from the date of the issuance of a Certificate of Substantial Completion. Provide Architect two (2) sets of maintenance manuals on all equipment, and two (2) sets of as-built drawings prior to final payment.
- Contractor shall be responsible for providing all materials and labor to complete this project.
- Contractor shall coordinate the routing of the work of all trades.
- Where a detail is shown for one condition, it will apply to all like or similar conditions.
- Provide soil treatment for termite control under all footings and slabs. Application shall be by licensed, bonded applicator using chemicals approved in the State of Georgia. Application shall comply with U.S.D.A. and State Requirements. Provide 5 year infestation and damage written guarantee.
- All concrete shall be 3000 PSI concrete. Concrete, forms, mixing, placement, finishing, curing, protection and testing shall comply with ACI-301. Testing will be paid for by Owner but coordinated by Contractor.
- Finish Grade shall slope away from Building.
- 3" of minimum coverage shall be provided to all steel in footings and foundation walls.
- All footings shall bear on original, undisturbed soil with a minimum soil bearing capacity of 2500 PSF. Compact to minimum 95 percent of Standard Proctor. Testing will be paid for by Owner but coordinated by Contractor.
- All concrete floor slabs shall have a 6 x 6-10/10 W.W.M. continuous with 6" lap wired together a minimum of 1" from bottom of slab. Remove all top soil, vegetation and debris under slabs and replace with clean compacted soil or sand. Compact to 95 percent of standard proctor.
- All slabs shall be placed over 6 mil Vapor Barrier, over 4" of compacted # 57 gravel.
- The bottom of all footings shall be located below frost line.
- Concrete slabs shall be floated and have a level steel trowel finish. Sidewalk shall be finished with a fine broom finish and cured with two coats of liquid curing compound.
- Brick Masonry: Brick shall match Existing Brick Masonry. Provide solids and specials if required. No core holes shall be visible. Mortar joints shall match existing. (Boral Brick has advised that Boral Concord is existing brick.)
- CMU Masonry: Masonry Units shall match existing.
- Masonry Accessories: Brick ties shall be 16 gauge corrugated galvanized steel. Brick ties shall be fastened thru sheathing into studs, refer to plans for spacing. Thru wall flashing shall be 5 oz. copper sheet embedded in fiberglass mat and asphalt both sides. Locate at head and sill of windows, at head of exterior doors and at base of exterior walls.
- Mortar shall be Type S, ASTM C-270, color to match existing.
- The structural elements of this building are subject to failure until the structure is 100% complete. Therefore, it is the responsibility of the Contractor to properly brace and support all of the structural elements during construction.
- If trusses are used, proper erection bracing shall be installed to hold the trusses true and plumb and in safe condition until permanent truss backing and bridging can be solidly nailed in place to form a structurally sound framing system. All erection and permanent bracing shall be installed and all components permanently fastened before the application of any loads to trusses. (All bracing shall be designed by Manufacturer.) All prefabricated wood trusses are to be installed in accordance with Bracing Wood Trusses Commentary (BWT-76), or HFT-80 as published by the Truss Plate Institute.

Design of roof trusses shall be performed by a registered Structural Engineer in the State of Georgia. Design calculations shall be sealed by the Design Engineer, and submitted to the Owner.

- Walls shall be plumb and straight with no joints or imperfections visible.
- EIFS system shall be as manufactured by Dryvit or equal. Materials and installation shall be in accordance with Manufacturer's details and specifications. All edges shall be wrapped with mesh and finish materials. Refer to drawings for additional details. Color shall be selected by Owner.
- Exterior Sheathing Board: 1/2" APA rated sheathing plywood for walls and 3/4" for roof.
- Air Infiltration Barrier: Tyvek Commercial Wrap as manufactured by Dupont or approved equal.
- Insulation: Fiberglass batts of R values indicated on drawings.
- Woodwork: All wood touching concrete or metal shall be pressure treated. Grade shall be SYP #2 or better for all wood. All wood to wood connections shall employ metal anchors. No toe or end nailing permitted. Finish carpentry shall be done by skilled craftsmen. Refer to Plans and Finish Schedule for requirements. Plywood shall be as shown on the Drawings. Installation shall be in accordance with APA Specifications.
- Cabinetwork and Countertops shall be as shown on the Drawings. Quality and workmanship shall be "custom" grade as defined by A.W.I.
- Wood Doors: Refer to Drawings. Doors shall be stain grade to match existing. Verify with Owner prior to placing order. Note Doors that are a part of the Security Package.
- Windows: Refer to drawings. Windows shall match existing windows in appearance. Windows shall have insulated Low E, Easy-care glazing and shall be Energy Star Rated.
- Roofing: shingle shall match existing roof over 30 lb. felt. Flashing shall be 24 gauge paint grip galv. Metal. Install Grace Ice and Water Shield where indicated. All work shall be in accordance with Manufacturers Specifications.
- Wallboard shall be 1/2" thick tapered edge, unless otherwise indicated, 48" wide in lengths as long as practical. "DanArmor-Interior Guard", conforming to ASTM Specification C-36. Fasteners and installation shall comply with Manufacturer's Specifications as well as accessories and finishing materials. All wallboard shall be fastened with screws. Use 5/8" fire rated where indicated.
- Caulking and Sealants: Interior caulking shall be paintable Acrylic Latex. Exterior sealant shall be a one-part Urethane in a compatible color to the surface where applied.
- Acoustical ceiling shall match existing ceiling. Furnish a certificate to the Owner that the suspension system is adequate to support the ceiling and the lighting fixtures specified. Installation shall comply with Manufacturers Specifications. Level Grid by laser to a minimum tolerance of 1/8" in 12'-0" in all directions. Hanger wires shall be a minimum 12 gauge galvanized annealed wire.
- Finish Hardware: Refer to Security Equipment and Materials.

- Painting: All surfaces shall be properly prepared to receive the intended finishes. No substitutions shall be permitted without the written approval of Owner.
 - Approved manufacturers: Materials listed herein are those of Benjamin Moore. Equal products by Porter, Pratt & Lambert or Pittsburgh Paint Company will be acceptable. All paint used on this job shall be products of one manufacturer unless otherwise specified.
 - Color: Selected by Owner.
 - Primer for metal: (interior and exterior)
 - Ferrous metal primer: M05 Alkyd Rust Inhibitive Metal Primer.
 - Galvanized metal primer: M04 Acrylic Galvanized Metal Primer.
 - Interior primers of other surfaces:
 - Flat paint: 275 Super Spec Acrylic Latex.
 - Semi-gloss paint: 276 Super Spec Acrylic Latex.
 - Interior Painting Schedule: (Paint all exposed surfaces as follows)
 - Ferrous metal:
 - Ferrous Metal Primer - 1 coat (Not required where primer has been shop applied; then spot coat only.)
 - Semi-gloss Enamel - 2 coats.
 - Galvanized Metal:
 - Galvanized Metal Primer - 1 coat.
 - Semi-Gloss enamel - 2 coats.
 - Walls and Trim - 2 coats Semi-Gloss Enamel or Flat paint if directed by Owner.
 - Exterior Painting schedule: 2 coats 055Moorlastic 100% Acrylic Exterior Low Lustre for all new CMU.
 - Exterior Metal: 2 coats 170 Super Spec 100% acrylic Semi-Gloss Paint.
- Fire extinguishers: Shall be type ABC Dry Chemical, 4A-60BC rating. Mounting shall be equal to J.L. Industries, Inc. Academy 1027V10. Location shall be as indicated on drawings; height shall be as directed by Local Fire Marshal.
- Security Equipment and Materials: All products shall comply with UL-752 Level 3 as well as National Institute of Justice Standard 0108.01 - Standard for Ballistic Resistant Protective Materials (Sept. 1985); Underwriters Laboratory UL-752 Ninth Edition, Standard for Bullet Resisting Equipment (Jan. 1995).

This Specification is based upon Protective Structures, Ltd., Alpharetta, Georgia Equipment and Materials. Products from North American Bullet Proof and from Safeguard Security Services, Ltd. will be considered if an itemized comparison to the item specified with complete descriptive and technical data is provided. The Owner must receive this information in hand a minimum of ten days prior to Bid Opening to be considered.

Glazing: All dimensions are approximate, verify in field.

- New teller window; approximately 156" w x 54" h x 1 1/4" thick, UL-752 Level 3 Bullet Resistant 4 ply Polycarbonate (Makrolon Hygard BR1250) set into a Ballistic Capture Aluminum Channel in powder coat finish. With 3 vertical offset design voice ports; 3 16"x10" stainless steel, non-ricochet, surface mounted deal trays.
- Teller Window in Room 101: approximately 60" w x 54" h x 1 1/4" thick, UL-752 Level 3 Bullet Resistant Polycarbonate set into a Ballistic Capture Aluminum Frame in powder coat finish. With continuous horizontal voice port with UL-752 Level 3 Polycarbonate back plate; one 16" x 10" stainless steel non-ricochet recessed deal tray.
- Type "B" Windows: approximately 48" w x 48" h x 1 1/4" thick, UL-752 Level 3 Bullet Resistant Polycarbonate set into a Ballistic Capture Aluminum Frame in powder coat finish.
- Type "C" Windows: approximately 30" w x 30" h x 1 1/4" thick, UL-752 Level 3 Bullet Resistant Polycarbonate set into a Ballistic Capture Aluminum Frame in powder coat finish.

Doors:

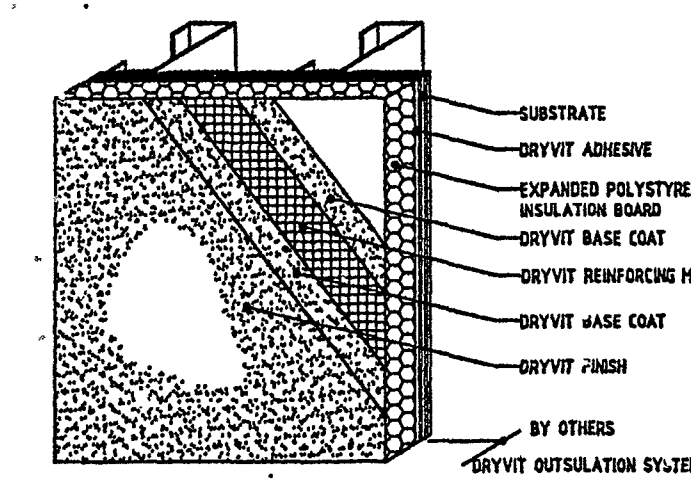
- Type "A" Door: 3'-0" x 7'-0" x 1 3/4" Level 3 Bullet Resistant Hollow Metal Door with fish eye 180 degree view port mounted at 60" A.F.F. and Level 3 Hollow Metal Frame in primed gray finish. With Roton Continuous Hinge, Marks Lever Set, LCN Closer, Stainless Steel Kick Plates. (Door D03)
- Type "B" Door: 3'-0" x 7'-0" x 1 3/4" Level 3 Bullet Resistant Solid Core Wood Door with wood veneer to match existing in Aluminum Ballistic Capture Frame with powder coat finish. With Roton Continuous Hinge, Marks Lever Set, LCN Closer, Stainless Steel Kick Plates. (Door D04)
- Type "C" Door: 3'-0" x 7'-0" x 1 3/4" Level 3 Bullet Resistant Polycarbonate Glazing in a Ballistic Capture Aluminum Door and Aluminum Frame with powder coat finish. With Heavy Duty Roton Continuous Hinge, Marks Lever Set, LCN Closer, Stainless Steel Kick Plates. (Door D01)

Wall Panels: 7/16" UL-752 Level 3 Bullet Resistant Fiberglass Panels for use in walls. Include 7/16" x 4" x 96" batten strips for all joints. At Teller Counters install Panels from bottom of counter top to floor on inside of wall. Where windows are installed in Security Walls run Panels from bottom of window to floor and where wall is solid run Panels from floor to a height of 72".

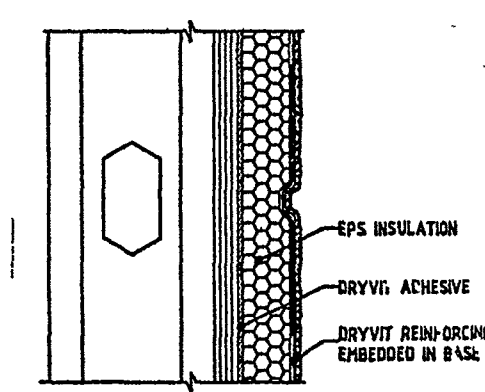
Installation shall be in strict accordance with Manufacturers and Suppliers written instructions. A copy of these instructions shall be supplied to the Owner prior to start of installation. After installation but prior to cover-up the Contractor, Supplier, Installer and Owner shall review and approve installation. Any defects found during this review shall be corrected immediately to the satisfaction of the Owner.

48. Demolition:

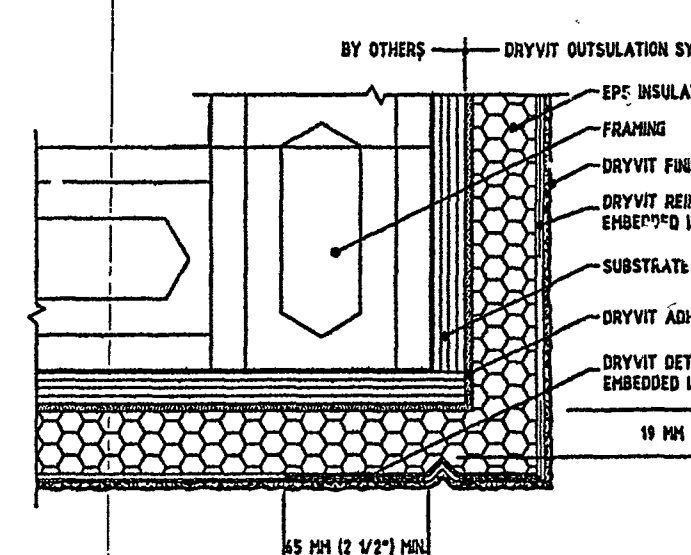
- Contractor shall refer to Drawings for extent of demolition. Except as noted in the Specifications or on the Drawings, all materials resulting from demolition shall become the property of the Contractor and shall be removed from the site. Materials that remain the property of the Owner shall be protected and moved by the Contractor to a location designated by the Owner.
- Demolition shall be coordinated with the Owner. All unnecessary inconvenience shall be avoided and the existing building shall remain secure and weather-tight during construction.
- Protection: Contractor shall protect all structures and landscaping to remain. Contractor shall erect temporary barriers around demolition area at a distance so that falling debris will not fall outside of barriers and shall provide protection for the public. Contractor shall be responsible for damage to landscaping and all other areas caused by Contractor and his Sub-contractors. Doors to corridors shall remain closed during demolition in rooms. Landscaping shrubs in the work area shall be moved to the area furnished by the Owner.
- Site Conditions: Contractor shall visit the site, familiarize himself with actual conditions, and verify existing conditions in the field. Report any variation from the existing conditions that are indicated on the Documents to the Architect for written instructions.
- Before starting any work, contractor shall make such explorations and probes as are necessary to ascertain any wet sewer lines, water supply lines, live electrical conduits, live phone lines, and shall make sure these utilities can be broken or changed without danger or disruption to any necessary service. Disconnect and deactivate all existing utilities before proceeding with the work, except as specified above or otherwise shown on plans.
- Contractor shall be responsible to secure the services of a private utility locator firm during the entire course of the work. Contractor shall pay for said services. Contractor shall repair any damaged utility at no additional cost to the Owner.



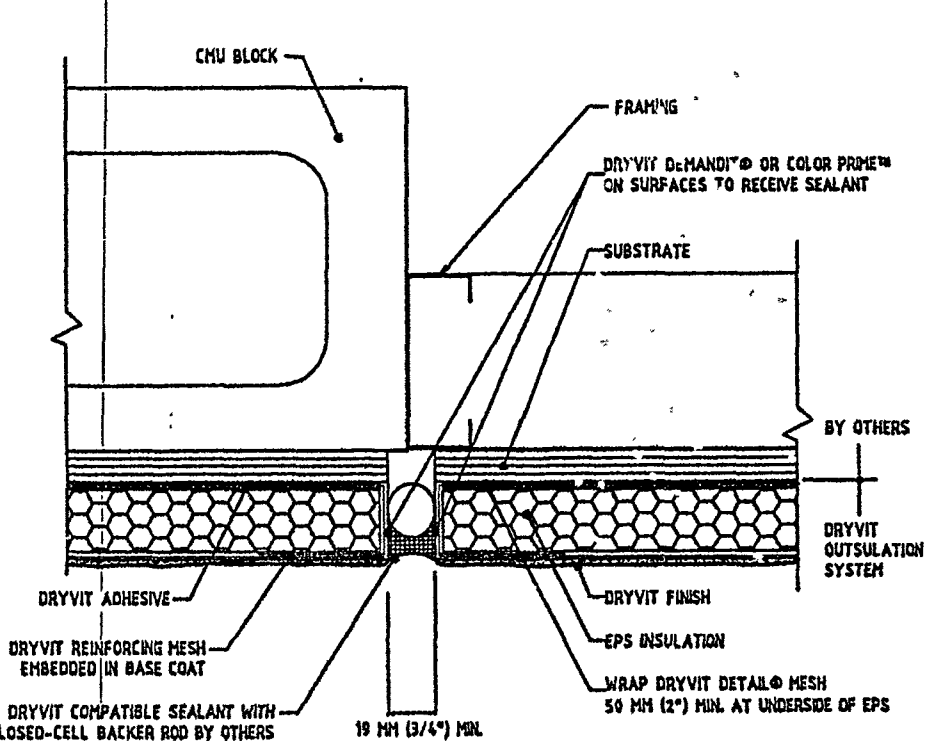
Outsulation* System Outsulation System
05 0.0.01



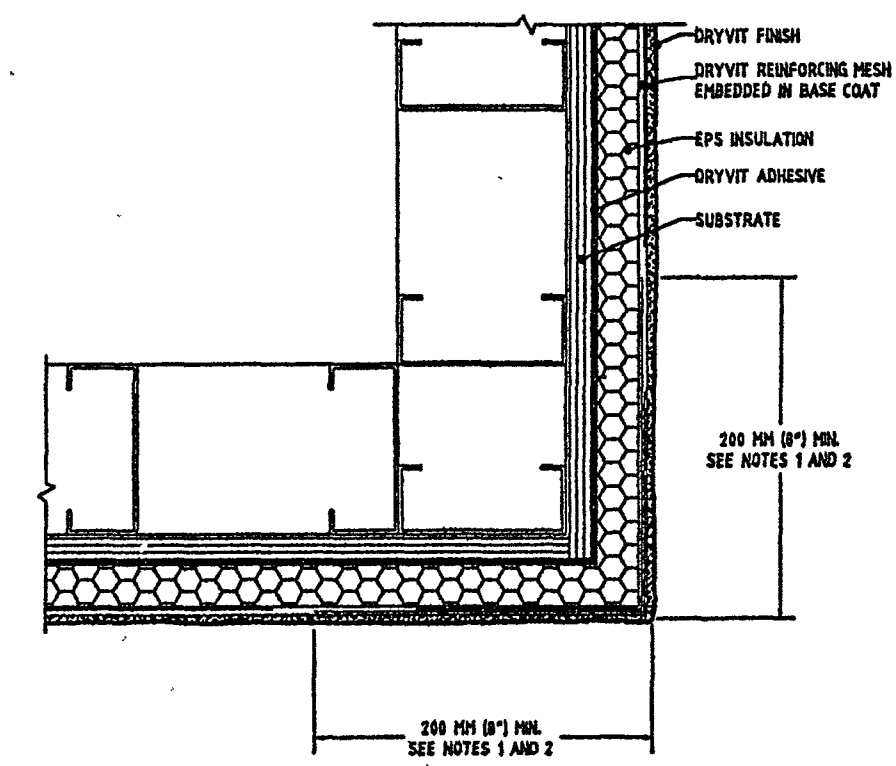
Outsulation* System Aesthetic Reveals
05 0.0.30



Outsulation* System Sill/Rotter Cut Drip
05 0.0.16

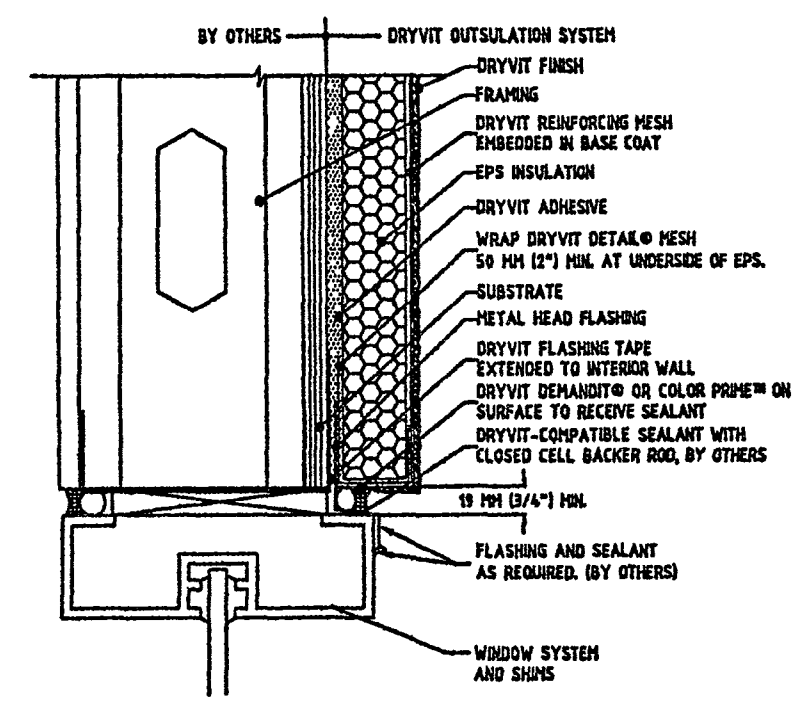


Outsulation* System Outsulation Expansion Joint - Dissimilar Substrates
05 0.0.24



Outsulation* System Outside Corners
05 0.0.21

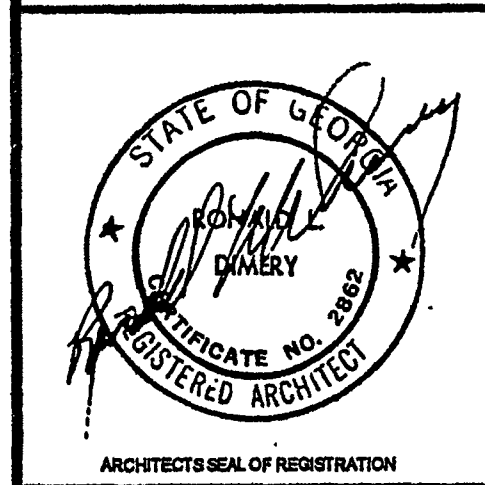
NOTE:
1. POSSIBLE WRAP OUTSIDE CORNERS WITH REINFORCING MESH OR USE CORNER MESH.
2. DO NOT LAP REINFORCING MESH WITHIN 24\"/>



Outsulation* System Termination at Head
05 0.0.09

DIMERY ASSOCIATES ARCHITECTS
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DATE	12/10/07	REVISION	
BY	KRB	REVISION	
DATE		REVISION	
DATE		REVISION	

NEWTON COUNTY WATER & SEWER AUTHORITY
LOBBY ADDITION
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA 30016

SHEET TITLE: **SPECIFICATIONS & DETAILS**
DATE: 9-10-2007
DRAWN BY: KRB
PROJECT NO: 07117
SHEET NO: **A-6**

GRILLES, REGISTERS & DIFFUSERS

SUPPLY DIFFUSERS (CONSTANT VOLUME): TITUS PAS PERFORATED FACE TYPE, WITH OPPOSED BLADE DAMPER, OFF-WHITE BAKED ENAMEL FINISH, LAY-IN TYPE UNLESS OTHERWISE NOTED.

SUPPLY DIFFUSERS (VARIABLE VOLUME): THERMA-FUSER MODEL ST-HC, VAV COOLING AND VAV HEATING TYPE, SURFACE MOUNTING, OFF-WHITE BAKED ENAMEL FINISH.

RETURN AIR PANELS: TITUS PXP OR EQUAL, FINISH TO MATCH SUPPLY DIFFUSERS.

HVAC SPECIFICATIONS

Modify existing heating, ventilating and air conditioning system as required.

Comply with the Standard (International) Mechanical Code, 2000 Edition, with Georgia Amendments; the International Energy Conservation Code, 2000 Edition, with Georgia Supplements and Amendments; ASHRAE Standard 90.1-2001; and all other applicable codes, laws and ordinances.

Secure and pay for all required permits.

Submit shop drawings on new equipment, grilles, registers and diffusers and insulation for architect's approval.

Install all equipment and materials according to manufacturers' current recommendations. Maintain adequate clearance around equipment for servicing. All work shall fit the space available. Make minor deviations from the plans as required by space limitations at no additional cost. When in operation, system shall be free of objectionable noise and vibration.

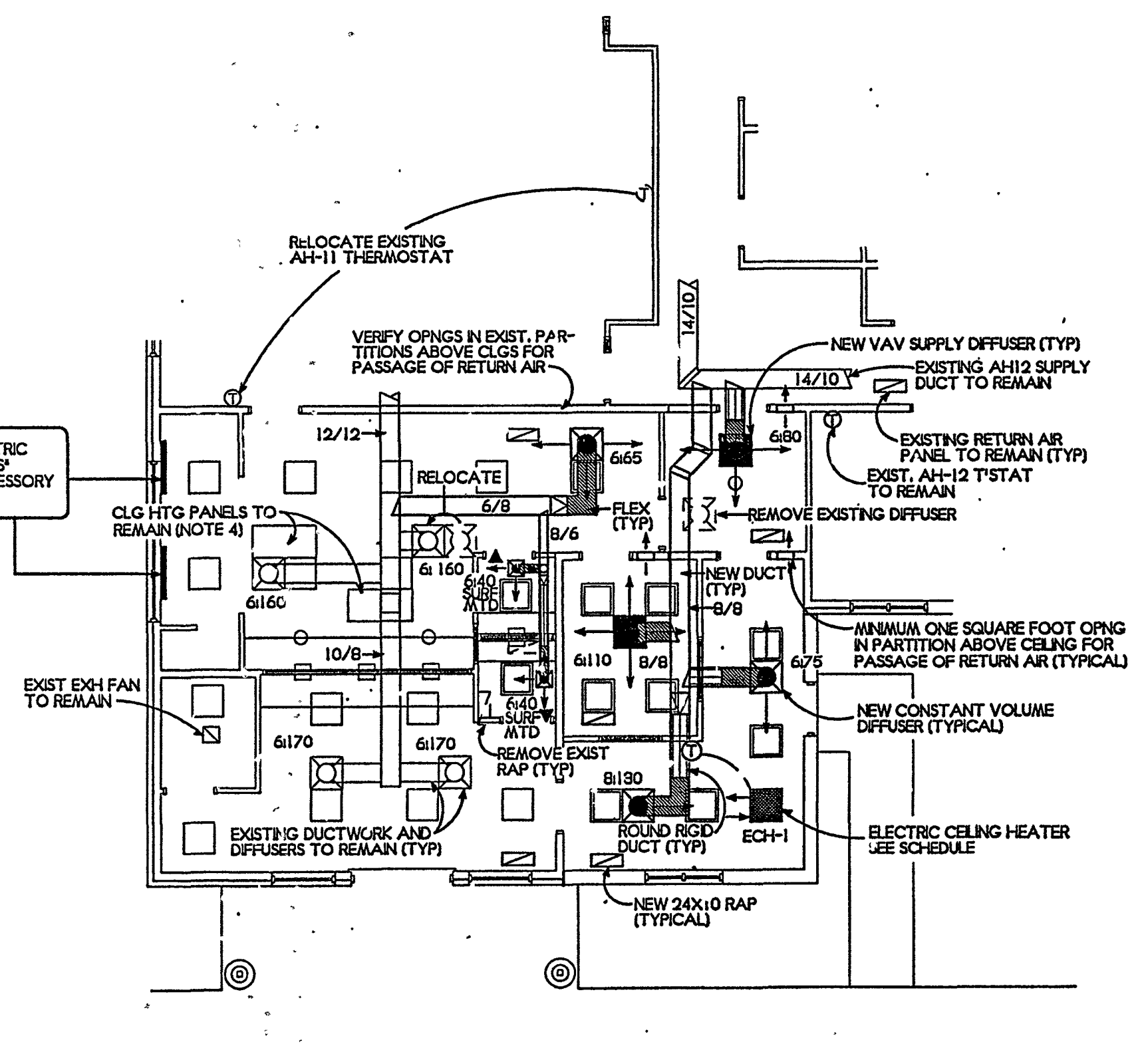
Turn over to the owner two sets of operating and maintenance data on new HVAC equipment, and instruct the owner's representative in operation and maintenance of the equipment.

Ductwork: Unless otherwise indicated, rigid ductwork shall be galvanized steel. Duct construction, gauges and joints shall conform to SMACNA recommendations. Supply and return ducts installed above suspended ceilings and in chases shall be covered with fiberglass blanket insulation (R-6 minimum) with foil vapor barrier jacket. Duct liner shall be neoprene or vinyl coated glass fiber (R-6 minimum). Flexible ductwork shall have fabric or metal liner, 1" thick fiberglass insulation and vapor barrier jacket. Install non-bustible glass fabric duct connectors, complying with UL standard 214, at all duct connections to fan-coil unit and return air plenum. All flexible ductwork, duct insulation and liner shall meet the requirements of NFPA pamphlet 90a. Sizes shown for lined rectangular ducts are inside dimensions. Seal all duct joints. Tape all joints and tears in foil insulation jackets.

Provide all clips, hanger rods, steel angles, etc. required to support equipment, ductwork and piping from structure.

Provide all required control devices and interlock wiring.

Balance air distribution and adjust automatic controls as required to achieve temperatures throughout affected conditioned spaces within plus or minus one and one-half degrees of thermostat settings.



(2) UNDER-DESK LOW TEMPERATURE ELECTRIC RADIANT PANEL HEATERS - COZY WATERS® OR EQUAL, 100 WATTS EACH, WITH ACCESSORY SURFACE MOUNTING H/LO/OFF SWITCH

1 PART PLAN-HVAC
M-1 1/8"=1'-0"

HVAC GENERAL NOTES

1. SYMBOL * ▲ * INDICATES DOOR TO BE UNDERCUT 3/4".
2. DUCTS CONNECTING TO INDIVIDUAL SUPPLY DIFFUSERS TO BE FULL SIZE OF DIFFUSER COLLAR UNLESS OTHERWISE NOTED.
3. DIFFUSER LOCATIONS ARE APPROXIMATE. COORDINATE WITH LIGHTING FIXTURES.
4. VERIFY PROPER OPERATION OF EXISTING RADIANT CEILING PANELS AND CONTROLS. REPAIR OR REPLACE IF REQUIRED.

ELECTRIC CEILING HEATER

TAG	CAPACITY (EACH)	BASIS OF DESIGN	MOUNTING	REMARKS
ECH-1	2.0 KW	MARKEL 3480 SERIES	RECESSED T-BAR	① ②

- ① SEE ELECTRICAL DRAWINGS FOR VOLTAGE/PHASE.
- ② WITH INTEGRAL DISCONNECT SWITCH, CONTROL CIRCUIT TRANSFORMER WITH 24 VOLT SECONDARY, AND PILOT DUTY ROOM THERMOSTAT WITH OPAQUE LOCKING COVER.



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BY	DATE	REVISION

NEWTON COUNTY WATER & SEWER AUTHORITY
LOBBY ADDITION
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA 30016

SHEET TITLE		HVAC	
SCALE	AS SHOWN		
DATE	7-21-07		
DRAWN BY	RI-W	SHEET No.	M-1
PROJECT No.	07117	OR	
CHECK BY	RI-W		



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Decatur, Georgia 30030
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7/21/07

ELECTRICAL LEGEND

- FLUORESCENT TROFFER. SEE FIXTURE SCHEDULE.
- FLUORESCENT TROFFER WITH EMERGENCY BATTERY/CHARGER PACK.
- FLUORESCENT STRIP FIXTURE. SEE FIXTURE SCHEDULE.
- FLUORESCENT FIXTURE, SURFACE MOUNTED, OR PENDANT. SEE FIXTURE SCHEDULE.
- HID FIXTURE. SEE FIXTURE SCHEDULE.
- INCANDESCENT OR HID FIXTURE. SEE FIXTURE SCHEDULE.
- INDICATES WALL BRACKET TYPE MOUNTING.
- INCANDESCENT DOCK LIGHT.
- EXIT LIGHT.
- EXIT LIGHT WITH BATTERY BACKUP.
- COMBINATION EXIT LIGHT WITH BATTERY BACK UP AND EMERGENCY LIGHTING FEATURE USING TWO HEADS AND REMOTE CAPABILITY.
- EMERGENCY LIGHT WITH BATT./CHARGER, TWO HEADS WITH REMOTE HEAD CAPABILITY.
- REMOTE EMERG. LIGHT HEAD ON ONE GANG BOX AND CONNECTED TO EMERGENCY LIGHT OR COMBINATION EXIT LIGHT.
- WALL SWITCH, SINGLE POLE, 120/277V, QUIET TYPE 44" AFF OR AS NOTED.
- WALL SWITCHES: 2 POLE/3 WAY/MOTOR RATED.
- DIMMER SWITCH, 2000W @ 44" AFF OR AS NOTED.
- JUNCTION BOX WITH COVER PLATE.
- JUNCTION OR PULL BOX.
- MOTOR, FRACTIONAL HP TYPE OR, EXHAUST FAN.
- MOTOR, SIZE AS NOTED.
- DISCONNECT SWITCH NON FUSED. RATING/POLES/NEMA ENCLOSURE.
- DISCONNECT SWITCH, FUSED. RATING/POLES/FUSE RATING/NEMA ENCLOSURE.
- PANELBOARD, 480Y/277V OR 208Y/120V OR 240/120V, SURFACE OR RECESSED AS SHOWN.
- TELEPOWER POLE.
- DUPLEX RECEPTACLE, 18" AFF OR AS NOTED, 15A 125V.
- DUPLEX RECEPTACLE, DEDICATED, 18" AFF OR AS NOTED, 20A 125V.
- DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, ORANGE MARKING, 18" AFF UNLESS NOTED.
- DUPLEX RECEPTACLE, ABOVE COUNTER HEIGHT OR AS NOTED, 20A/125V.
- DUPLEX RECEPTACLE, (GFCI), ABOVE COUNTER HEIGHT OR AS NOTED.
- DUPLEX RECEPTACLE, (GFCI) WEATHERPROOF WITH GASKETED COVER, AT 18" AFF OR AS NOTED, MOUNT ON PEDESTAL OR ATTACH TO EQUIP. ENCL. ON ROOF.
- QUADRUPLEX RECEPTACLE, 18" AFF OR AS NOTED, 15A/125V.
- SPECIAL RECEPTACLE, COORDINATE NEMA CONFIGURATION WITH EQUIPMENT.
- CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING. 'EC' MEANS EMPTY CONDUIT WITH PULL CORD.
- CONDUIT AND WIRE UNDERGROUND OR BELOW SLAB.
- HOMERUN TO PANEL.
- SLASH MARKS INDICATE NUMBER OF #12 WIRES IN CONDUIT, EXTENDED SLASH IS NEUTRAL, ABSENCE OF SLASHES IS 2#12. SIZE CONDUIT PER N.E.C. EQUIPMENT GROUND REQUIRED IN PVC CONDUIT BUT NOT SHOWN.
- INDICATES INCREASED WIRE SIZE FOR VOLTAGE DROP/AMPACITY.
- TELEPHONE HOME RUN TO TEL. CABINET. 1" PVC WITH PULL CORD. STUB UP 6" AFF IN SHOP AT T&B AND SEAL, SEE ELECTRICAL SITE PLAN.
- TEL. BACKBOARD (OR TERMINAL BOARD) 2' x 4' x 3/4" MARINE GRADE, PLYWOOD PAINTED LIGHT GRAY. PROVIDE RECEPTACLE AND POSITIVE GROUND CONDUCTOR. (#6 AWG COPPER)
- DATA OUTLET, WALL MOUNTED 18" AFF OR AS NOTED, WITH 3/4" CONDUIT STUBBED ABOVE CEILING.
- TELEPHONE OUTLET, WALL MOUNTED 18" AFF OR AS NOTED, WITH 3/4" CONDUIT STUBBED ABOVE CEILING.
- COMBINATION TELEPHONE/DATA OUTLET BOX, WALL MOUNTED 18" AFF OR AS NOTED, WITH 3/4" CONDUIT STUBBED ABOVE CEILING.
- TWO-GANG FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE AND COMMUNICATIONS OUTLET WITH COVERS AND CARPET FLANGE.
- THREE-GANG FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE, COMMUNICATIONS OUTLET, AND CRT OUTLET WITH COVERS AND CARPET FLANGE.
- SPEAKER ROUGH-IN LOCATION.
- RAIN TIGHT/WEATHERPROOF.
- NIGHT LIGHT, CONNECT TO UNSWITCHED CONDUCTORS OF LIGHTING CIRCUIT.
- ABOVE FINISHED FLOOR OR GRADE.
- NEAREST RECEPTACLE CIRCUIT.
- RELOCATED DEVICE.
- EXISTING DEVICE.

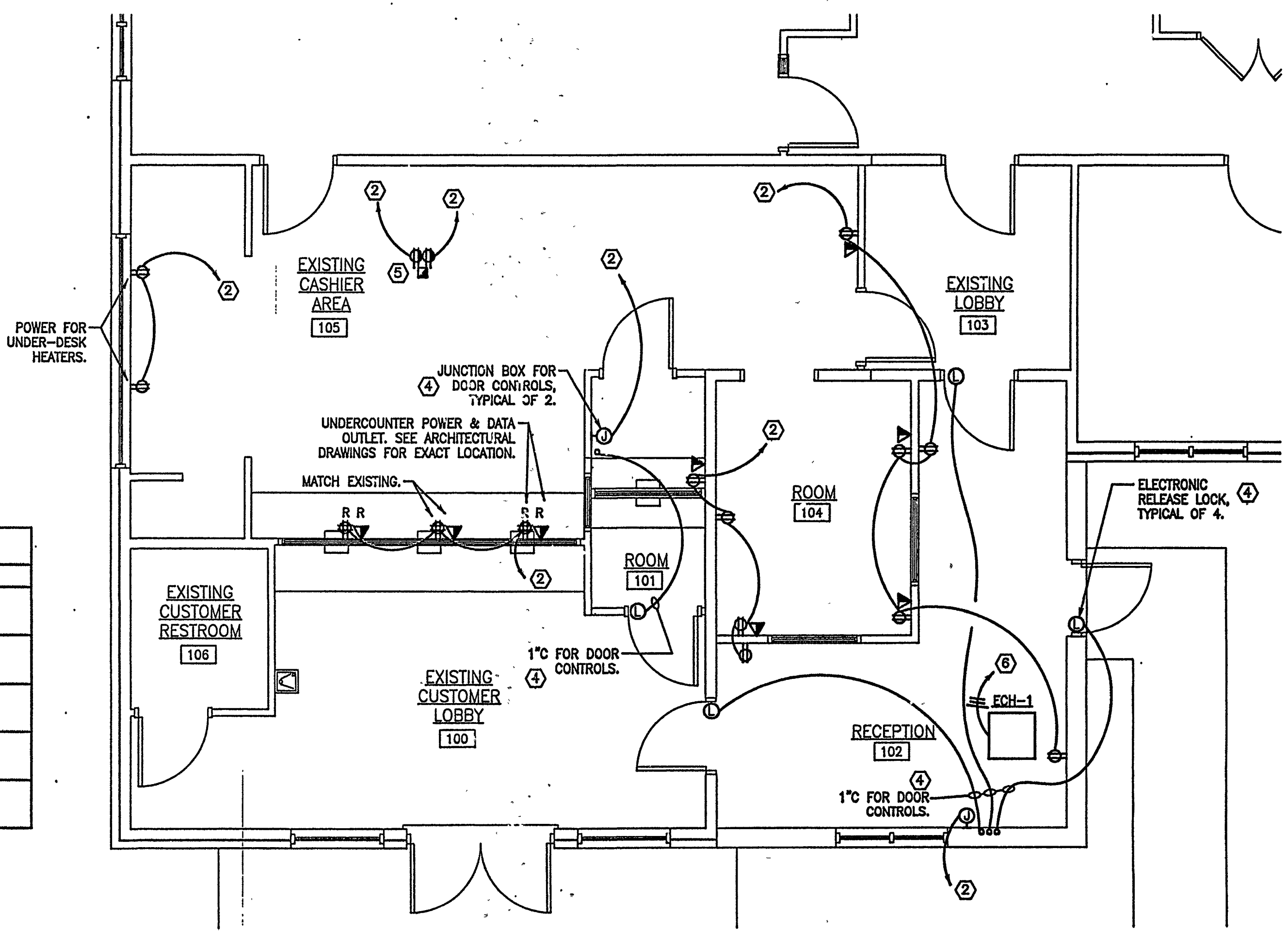
LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMPS	NOTES
A	2x2 FLUORESCENT LAY-IN TROFFER, MATCH BUILDING STANDARD		70W 120V
AE	SAME AS TYPE "A", EXCEPT WITH EMERGENCY BATTERY BALLAST		70W 120V
D	RECESSED DOWNLIGHT, MATCH BUILDING STANDARD		100W 120V
J	EXTERIOR SCONCE, MATCH BUILDING STANDARD		100W 120V
X	EXIT SIGN, MATCH BUILDING STANDARD		5W 120V

- NOTES:**
- VERIFY CEILING TYPES AND PROVIDE MOUNTING HARDWARE/ACCESSORIES/FIXTURE OPTIONS NECESSARY FOR INSTALLATION.
 - EXTERIOR FIXTURES SHALL BE DAMP OR WET LOCATION LISTED AS REQUIRED.
 - LAMPS SHALL BE INCLUDED AND INSTALLED IN ALL FIXTURES UNLESS NOTED OTHERWISE.

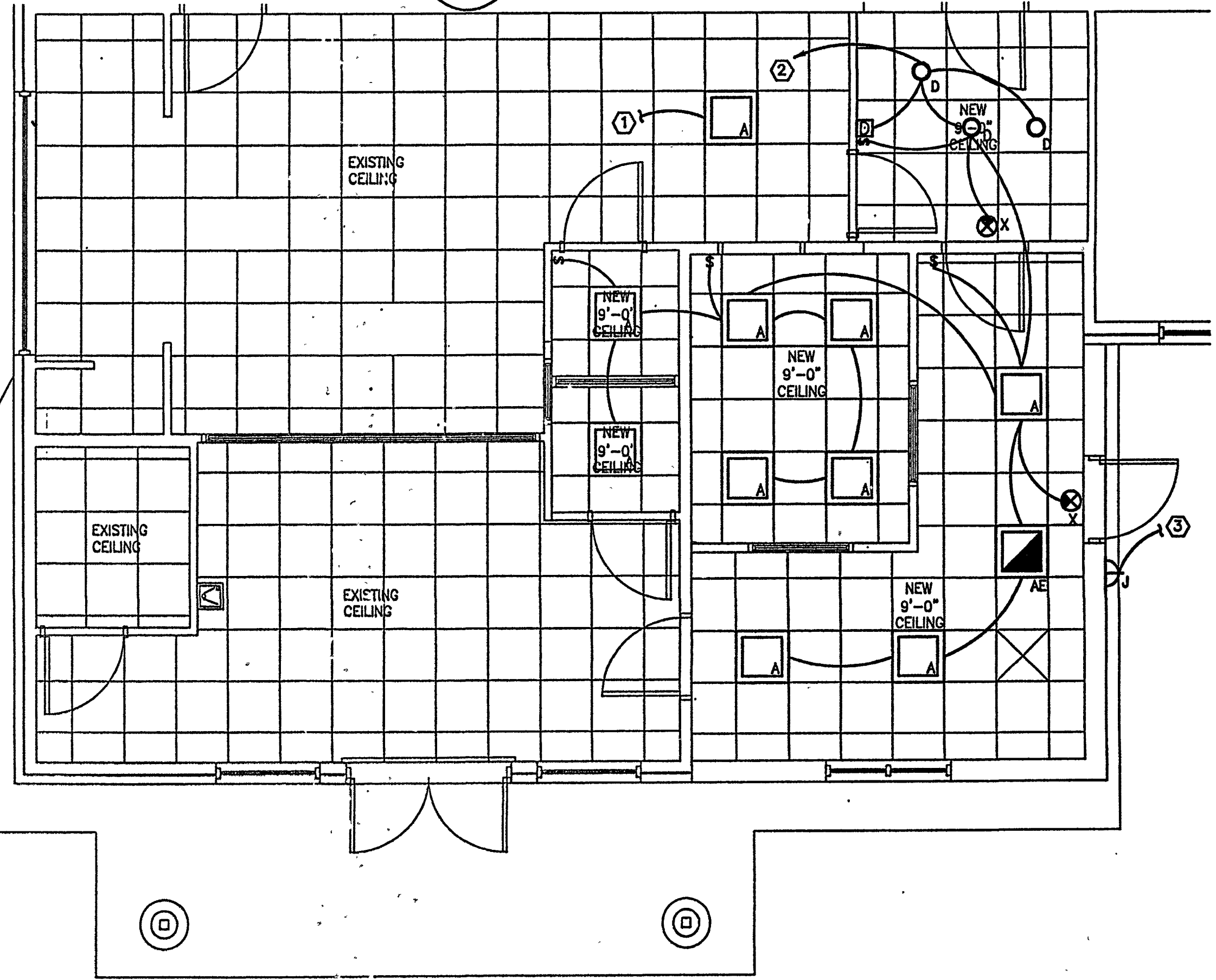
NOTES AND SPECIFICATIONS:

- CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. NO ALLOWANCE WILL BE SUBSEQUENTLY MADE IN HIS BEHALF BECAUSE OF ANY ERROR ON HIS PART RELATED TO ABSENCE OF KNOWLEDGE ABOUT THE WORK OR THE SITE.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT, PAY ALL FEES AND COSTS, SHALL OBTAIN ALL PERMITS, APPROVALS, AND INSPECTIONS TO PROVIDE A COMPLETE ELECTRICAL INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES. CONTRACTOR SHALL PAY ALL ASSOCIATED COSTS FOR TEMPORARY AND PERMANENT POWER.
- ALL ELECTRICAL INSTALLATIONS TO COMPLY WITH NATIONAL AND LOCAL CODES AND TO BE INSTALLED IN A FIRST CLASS WORKMANLIKE MANNER.
- ALL ITEMS INSTALLED PER THESE DRAWINGS SHALL BE NEW AND U.L. LABELED AND LISTED FOR THEIR SPECIFIC USE.
- WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF OCCUPANCY (C.O.). ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION AND FAULT FREE UPON DELIVERY TO OWNER.
- LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS WITH OTHER TRADES. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE.
- ALL ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED WITH PERMANENT LABELS. EXTERIOR LABELS SHALL BE WEATHERPROOF.
- PANELBOARDS SHALL BE EQUAL TO SQUARE D TYPE NQDD, BOLT-ON BREAKERS, 20" MINIMUM WIDTH. SEE PANELBOARD SCHEDULES FOR AIC RATINGS.
- ALL 15A/1P AND 20A/1P CIRCUIT BREAKERS SHALL BE SWITCH DUTY RATED. ALL BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR RATED. MULTI-POLE BREAKERS SHALL HAVE COMMON TRIP ELEMENT.
- PANELS SHALL BE DEADFRONT WITH NO OPEN SPACES OR KNOCK-OUTS. PANELS SHALL NOT HAVE CABINETS OR BUSSING MOUNTED UPSIDE DOWN.
- PANELS SHALL HAVE NUMBERED POLE SPACES AND COMPLETED, CORRECT PANEL SCHEDULE.
- CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN 600V, 75°C. MINIMUM WIRE SIZE IS #12 AWG.
- WHEN PVC CONDUIT IS USED, PROVIDE AN ADDITIONAL EQUIPMENT GROUNDING CONDUCTOR.
- WHERE CONDUIT, WIRE, OR EQUIPMENT SIZES AND TYPES ARE NOT SHOWN, THEY SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS.
- EXPOSED AND ABOVE CEILING BRANCH CIRCUITRY SHALL BE THIN COPPER INSTALLED IN EMT RACEWAY WITH STEEL SET SCREW FITTINGS.
- IN WALLS AND ABOVE CEILINGS, LIGHTING BRANCH CIRCUITRY MAY BE ACCOMPLISHED WITH A FLEXIBLE WIRING SYSTEM COMPLETE WITH ALL FITTINGS AND ACCESSORIES AS MANUFACTURED BY LITHONIA LIGHTING OR EQUAL, LISTED FOR PLENUM USE.
- UTILIZE TYPE MC CABLE FOR BRANCH CIRCUITRY IN WALLS AND ABOVE CEILINGS.
- SIZE CONDUCTORS AS NECESSARY TO MEET VOLTAGE DROP REQUIREMENTS OF N.E.C.
- PROVIDE #6 COPPER GROUND CONDUCTOR AT TELEPHONE BACKBOARD. CONNECT TO BUILDING STEEL.
- CIRCUITS TO ROOF SHALL BE ROUTED WITHIN RTU CURB.
- METALLIC ELECTRICAL BOXES SHALL BE INSTALLED SO THERE IS A 24" MIN. HORIZONTAL SEPARATION WHEN BOXES ARE LOCATED ON OPPOSITE SIDES OF A RATED WALL THE OPENING BETWEEN THE BOX AND THE WALLBOARD SHALL NOT EXCEED 1/8".
- OUTLET AND SWITCH COVERS SHALL BE SATIN STAINLESS IN FINISHED AREAS, SHEET STEEL IN UNFINISHED AREAS.
- EQUIPMENT, CONDUIT, AND DEVICES ON REAR MASONRY WALLS ARE EXPOSED UNLESS NOTED OTHERWISE. CONDUIT AND DEVICES ON STUD OR FURRED WALLS SHALL BE CONCEALED OR RECESSED.

LOAD STUDY	
ITEM	LOAD [KVA]
LIGHTING	1.07
RECEPTACLES	3.98
1 PHASE MOTORS	0.00
3 PHASE MOTORS	0.00
HVAC	2.20
WATER HEATERS	0.00
OTHER CONTINUOUS	1.00
OTHER NON-CONTINUOUS	0.00
TOTAL LOAD	8.25



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



2 LIGHTING PLAN
E-1 SCALE: 1/4" = 1' - 0"

- KEY NOTES:**
- CONNECT RELOCATED LIGHT FIXTURE TO AREA 20A/1P/120V LIGHTING CIRCUIT.
 - CONNECT TO SPARE 20A/1P/120V CIRCUIT BREAKER IN PANEL L3.
 - RECONNECT RELOCATED LIGHT FIXTURE TO 20A/1P/120V EXTERIOR LIGHTING CIRCUIT.
 - COORDINATE LOCATION AND INSTALLATION REQUIREMENTS OF DOOR CONTROLS PRIOR TO ROUGH IN.
 - TELE-POWER POLE TO BE WIREMOLD #25DTP-4 OR APPROVED EQUAL. COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
 - CONNECT TO SPARE 20A/2P/208V CIRCUIT BREAKER IN PANEL L3.

DIMERY ASSOCIATES ARCHITECTS
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DATE	7-2-2007
DRAWN BY	TSL
CHECKED BY	TLL
PROJECT NO.	07117
SHEET NO.	E-1
OF	1

NEWTON COUNTY WATER & SEWER AUTHORITY LOBBY ADDITION
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA 30016

ELECTRICAL PLANS
DATE: 7-2-2007
DRAWN BY: TSL
CHECKED BY: TLL
PROJECT NO.: 07117
SHEET NO.: E-1
OF: 1

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LA#07321