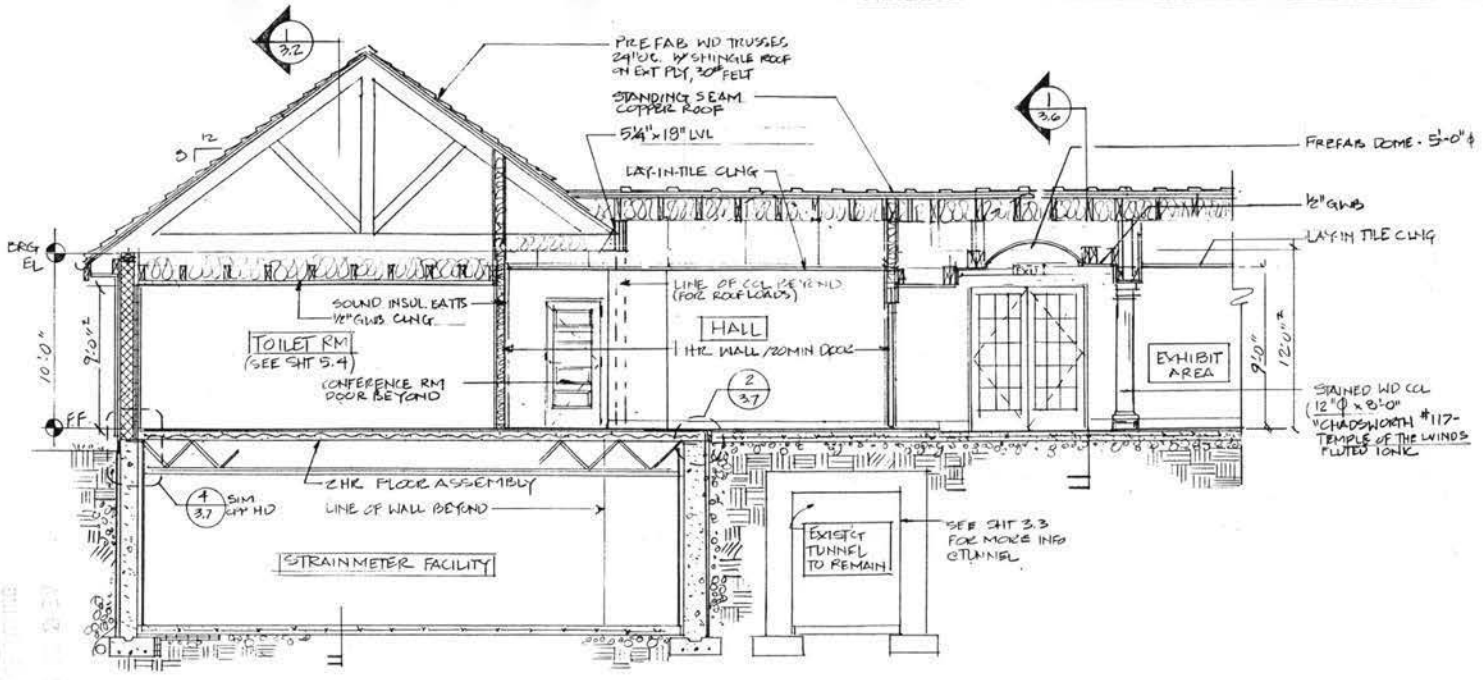
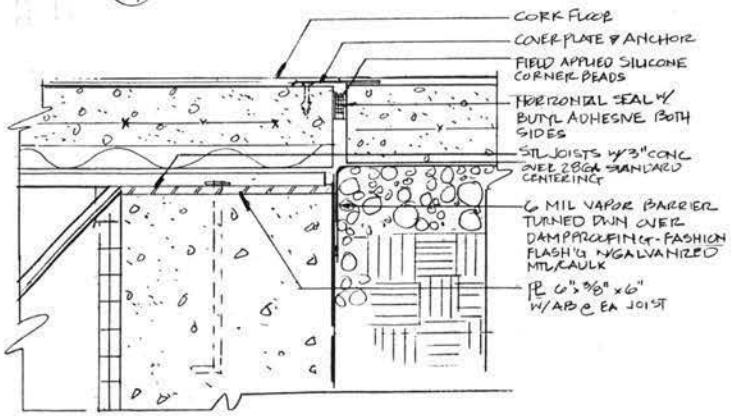
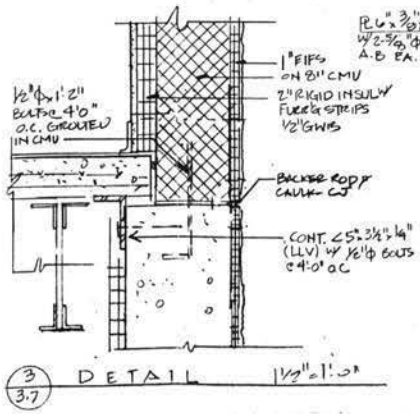
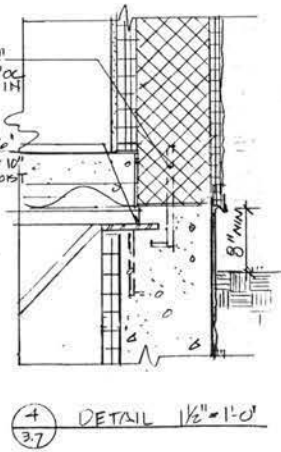








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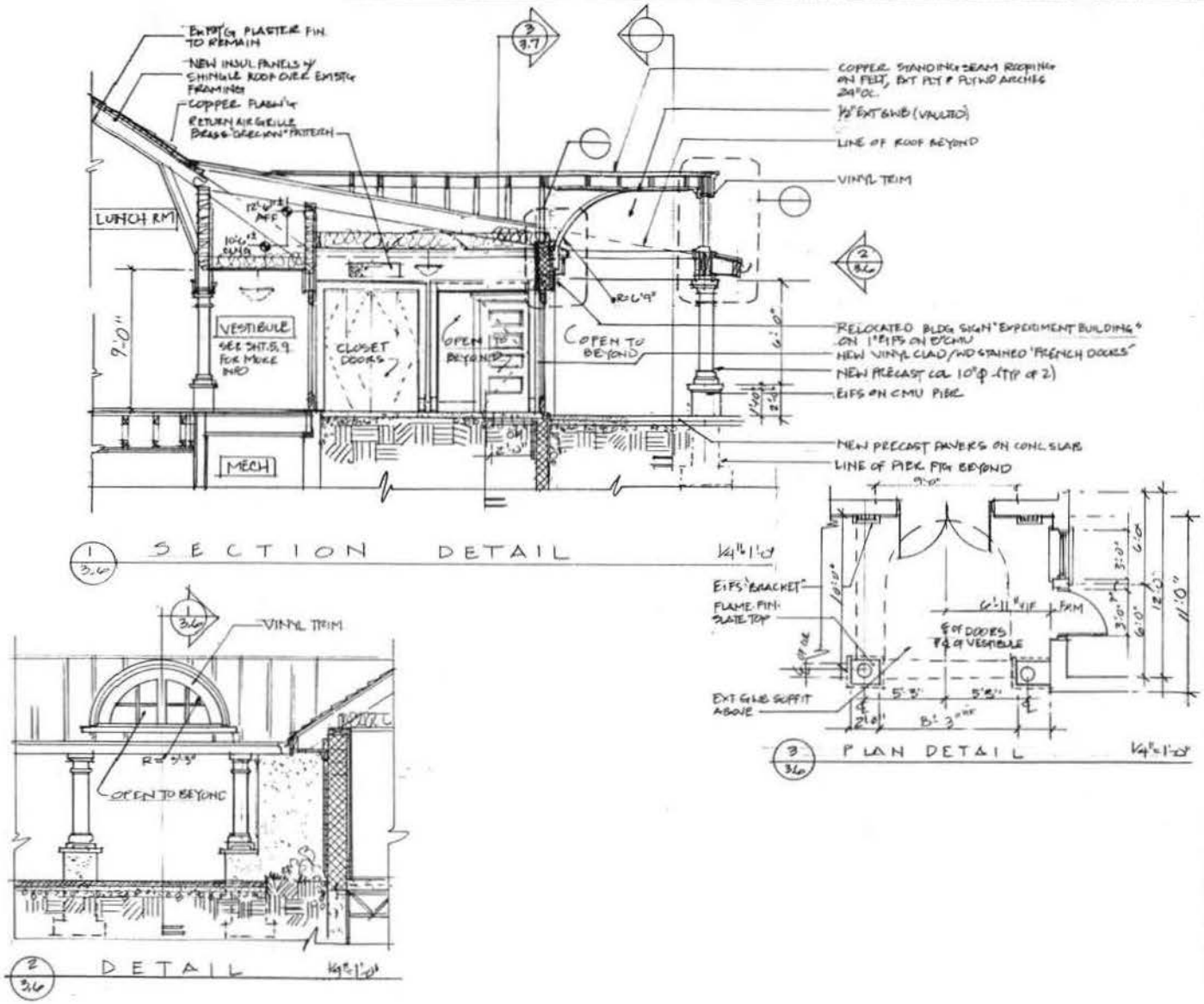
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PROJECT NO.
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ISSUE DATE
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12 SEPT 03

3.7
Section ● Hall

ZONING COMMISSION
District of Columbia
Case 04-12
Exhibit 10

ZONING COMMISSION
District of Columbia
CASE NO.04-12
EXHIBIT NO.10



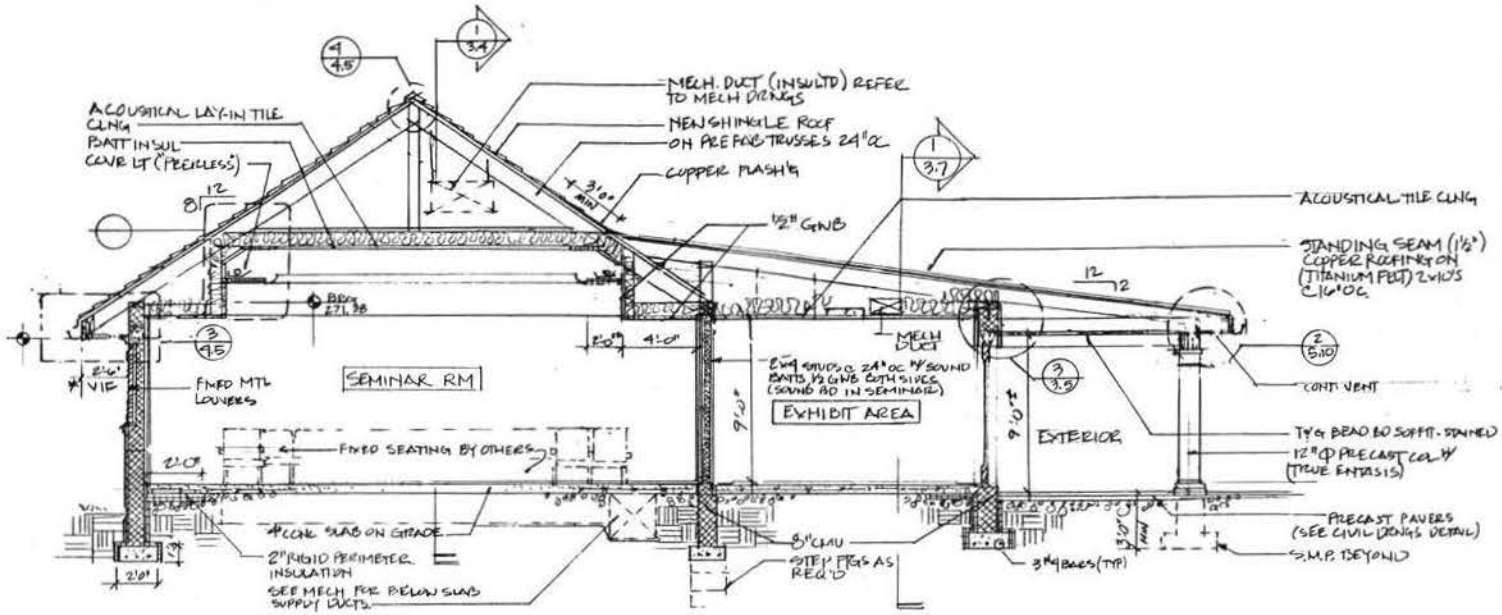
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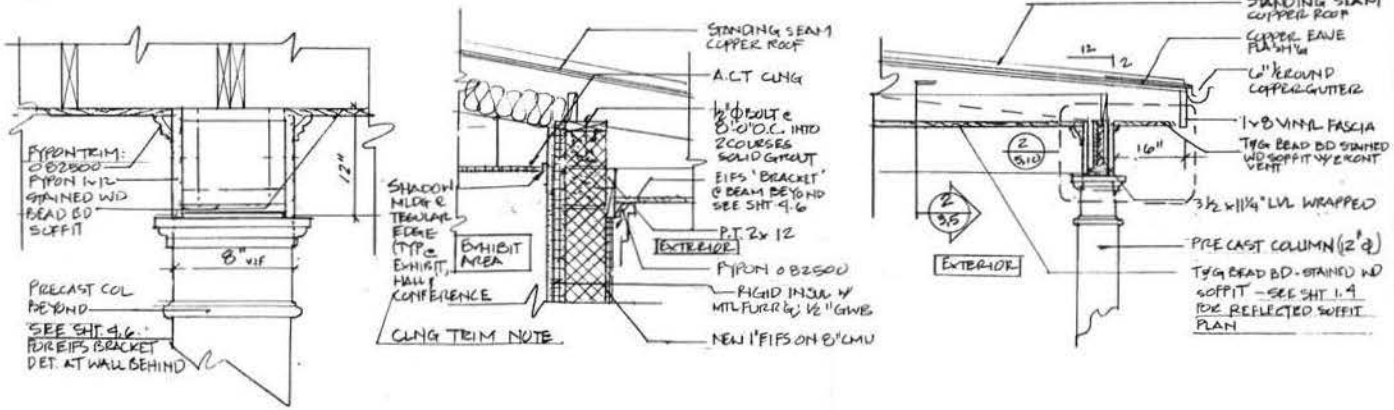
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3.6
Section @ Foyer



1/3.5 SECTION 1/4"=1'-0"



2/3.5 BULKHEAD DETAIL 1½"=1'-0"

3/3.5 SECTION DETAIL ¾"=1'-0"

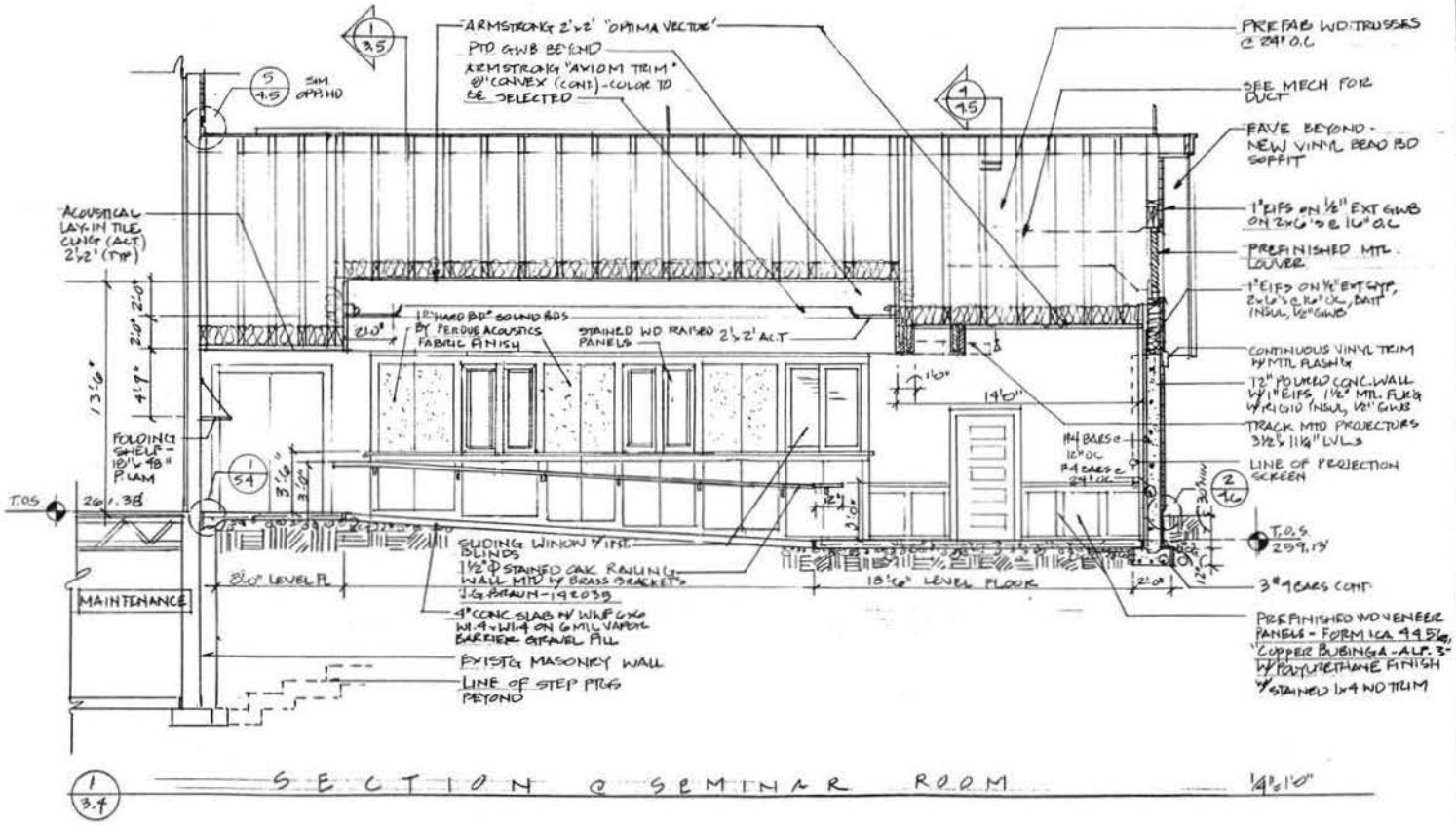
4/3.5 SECTION DETAIL ¾"=1'-0"

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3.5
Section @ Seminar/Exhibit



SECTION @ SEMINAR ROOM 1/4"=1'-0"

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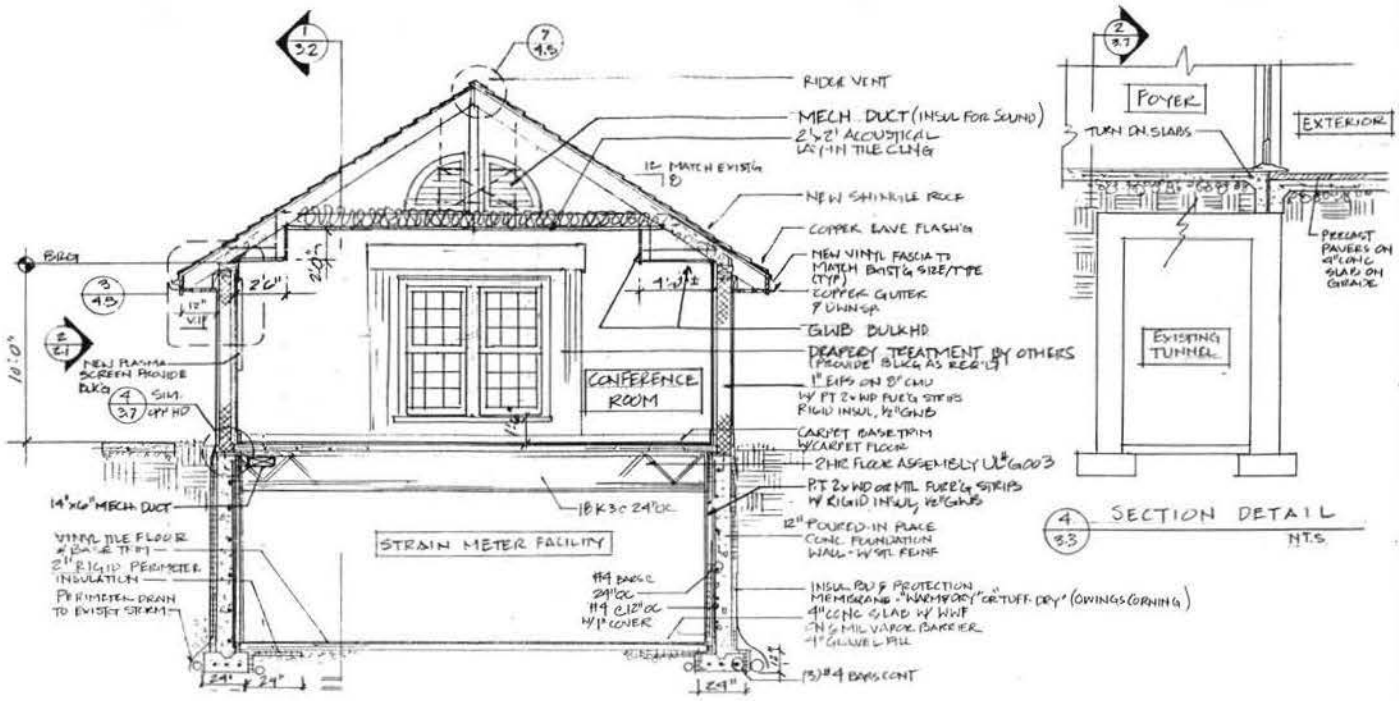
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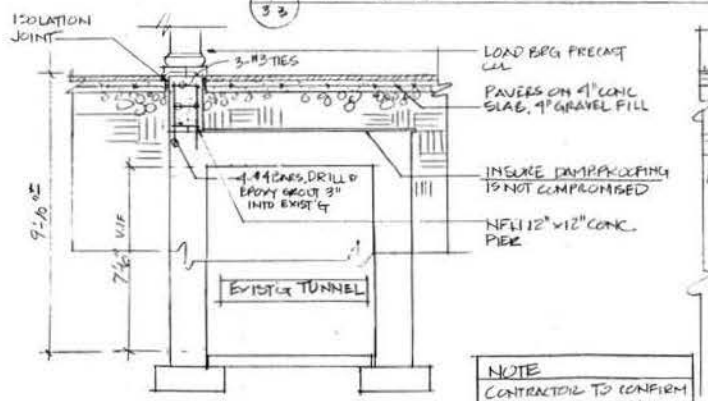
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3.4
Section @ Seminar Rm



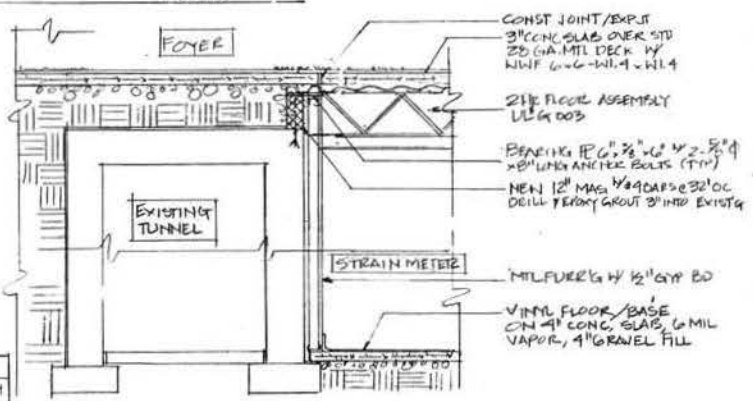
1/3.2 SECTION
Ve"=1'-0"

4/3.3 SECTION DETAIL
NTS



NOTE
CONTRACTOR TO CONFIRM CONDITION OF CONC TUNNEL PRIOR TO CONST'N

2/3.3 SECTION DETAIL
NTS



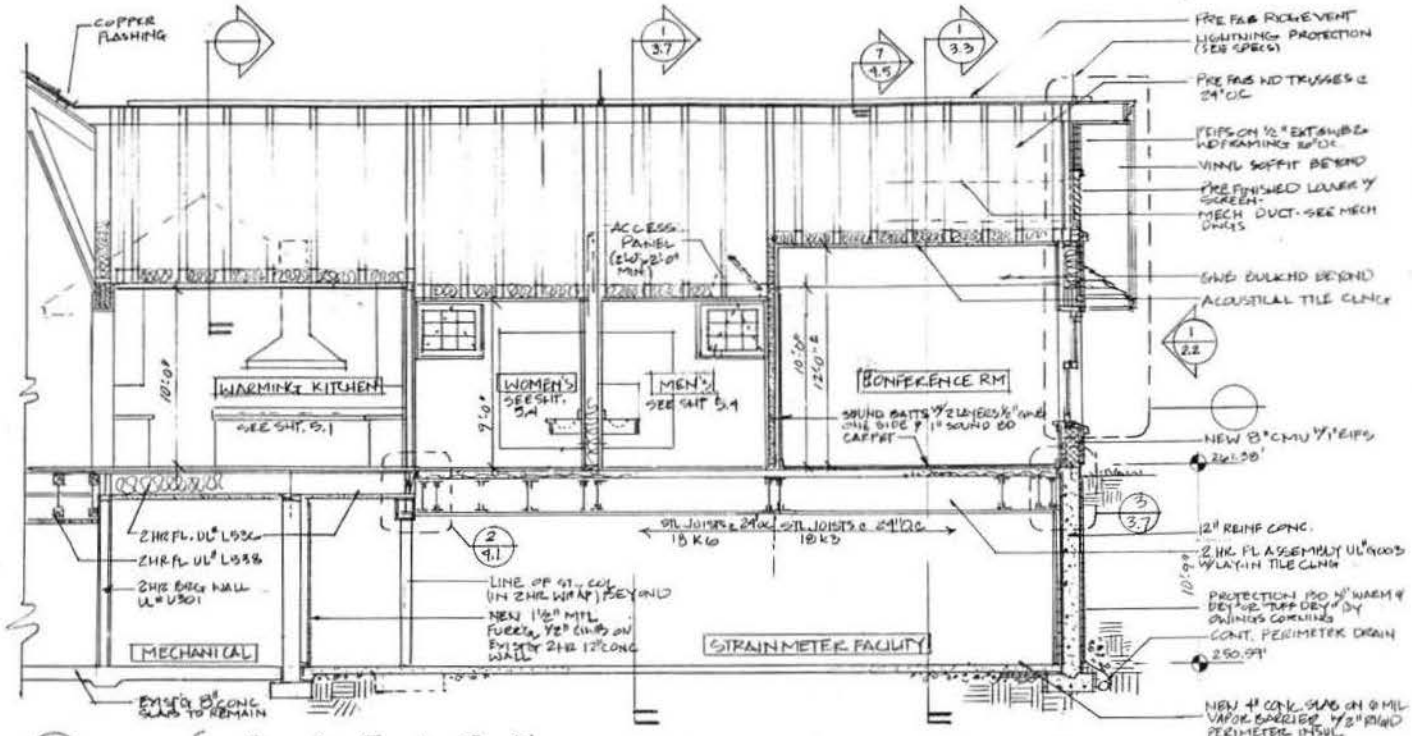
3/3.3 SECTION DETAIL
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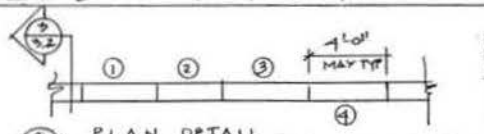
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3.3
Section @ Conference Rm



SECTION



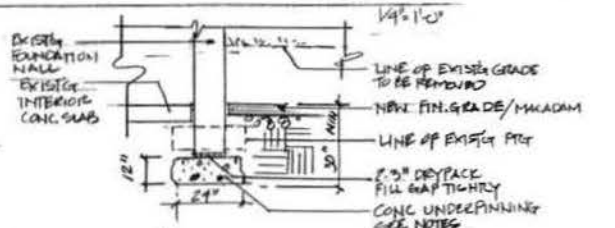
PLAN DETAIL

NTS

Underpinning Notes/Procedure

1. Excavate for underpinning at locations marked 1 only.
2. Install forms and pour concrete to within 2-3" of bottom of existing footing.
3. Allow concrete to cure 24 hrs..
4. Install dry pack. Material should be rammed into place to fill gap tightly.
5. Excavate at locations marked 2 only.
6. Repeat steps 2-4.
7. Excavate at sections marked 1 only.
8. Repeat steps 2-4
9. Wait one week before removing forms.

UNDER PINNING DETAIL



SECTION DETAIL @ UNDERPINNING

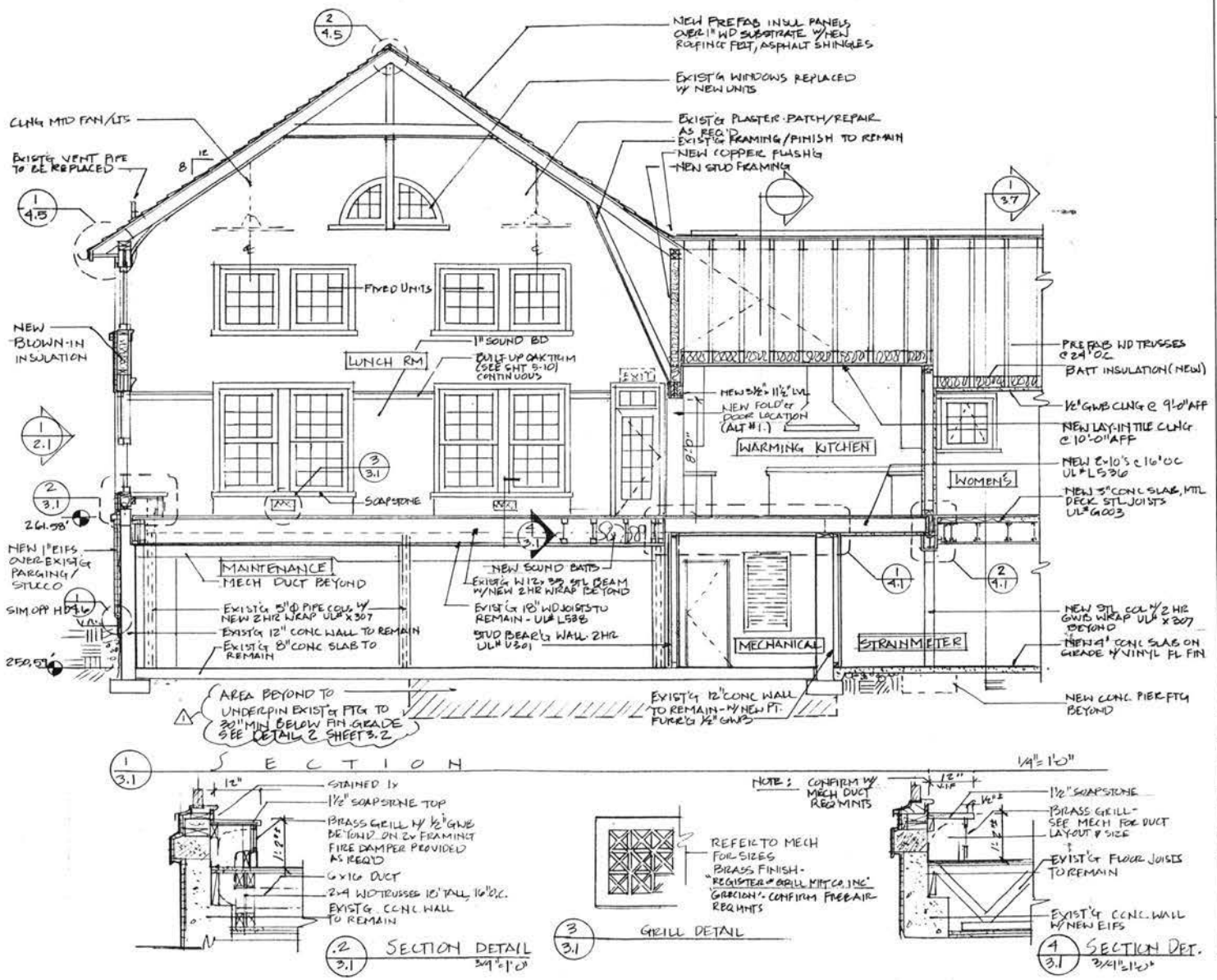
N.T.S

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3.2
Section @ Kitchen



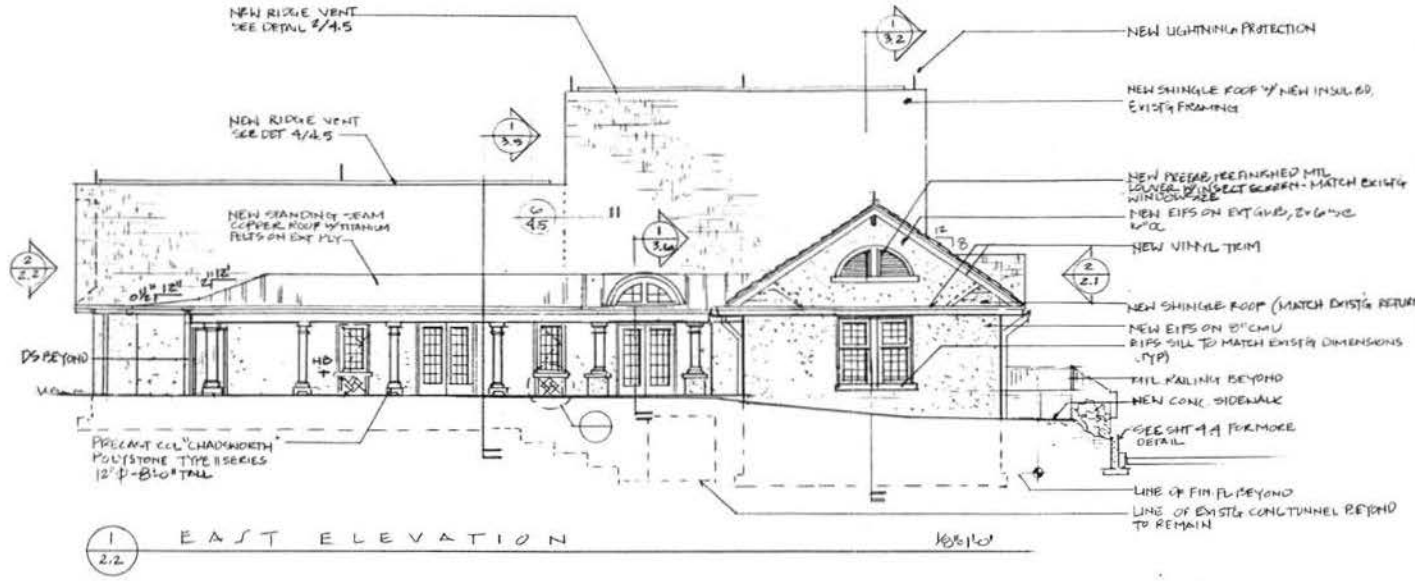
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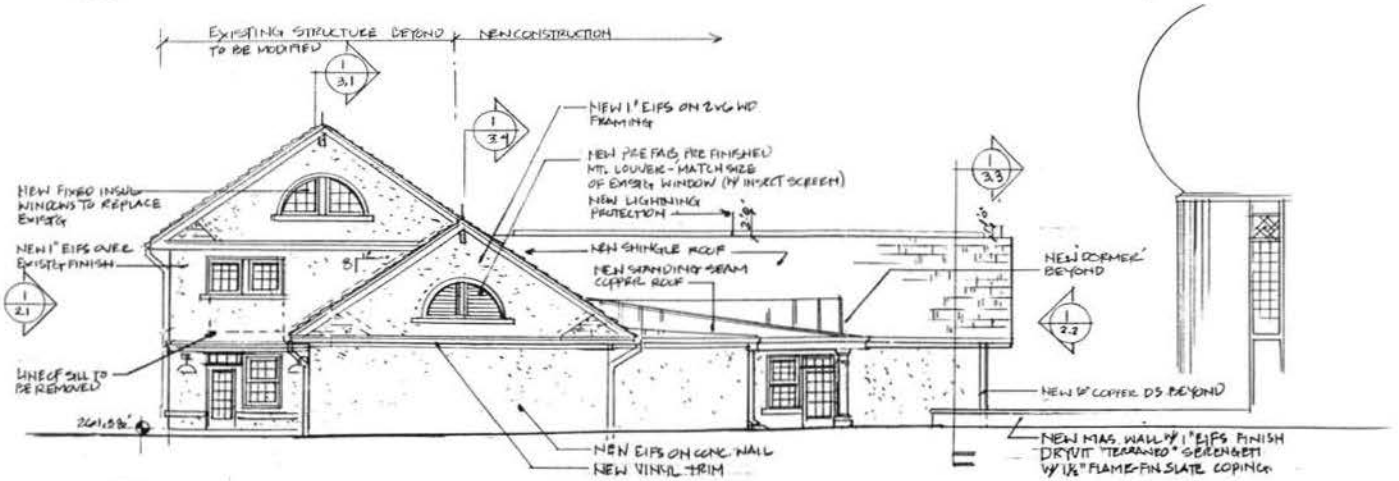
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3.1
Section @ Lunch Room



1/2.2 EAST ELEVATION 1/8"=1'-0"



2/2.2 SOUTH ELEVATION 1/8"=1'-0"

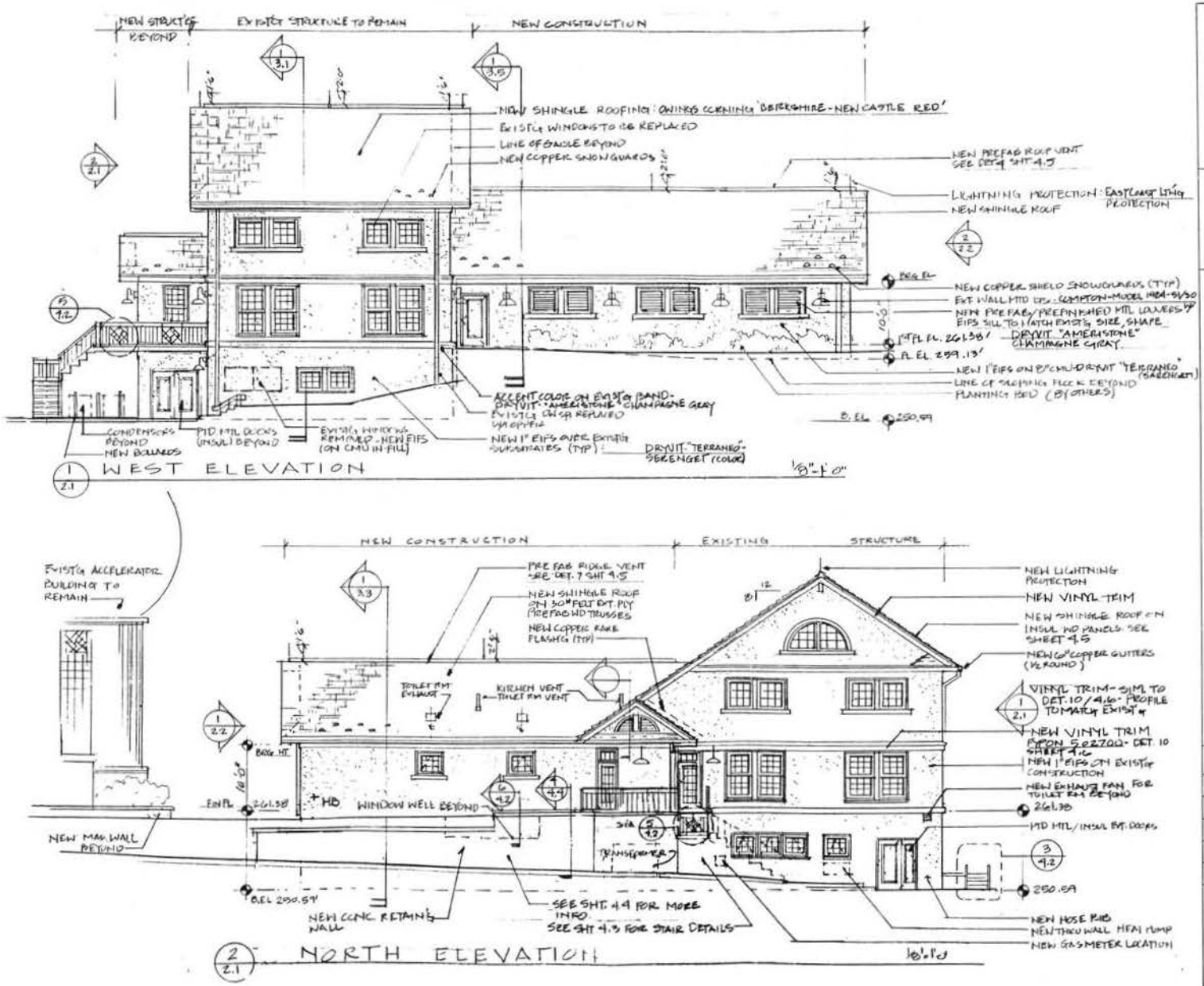
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2.2
Elevations

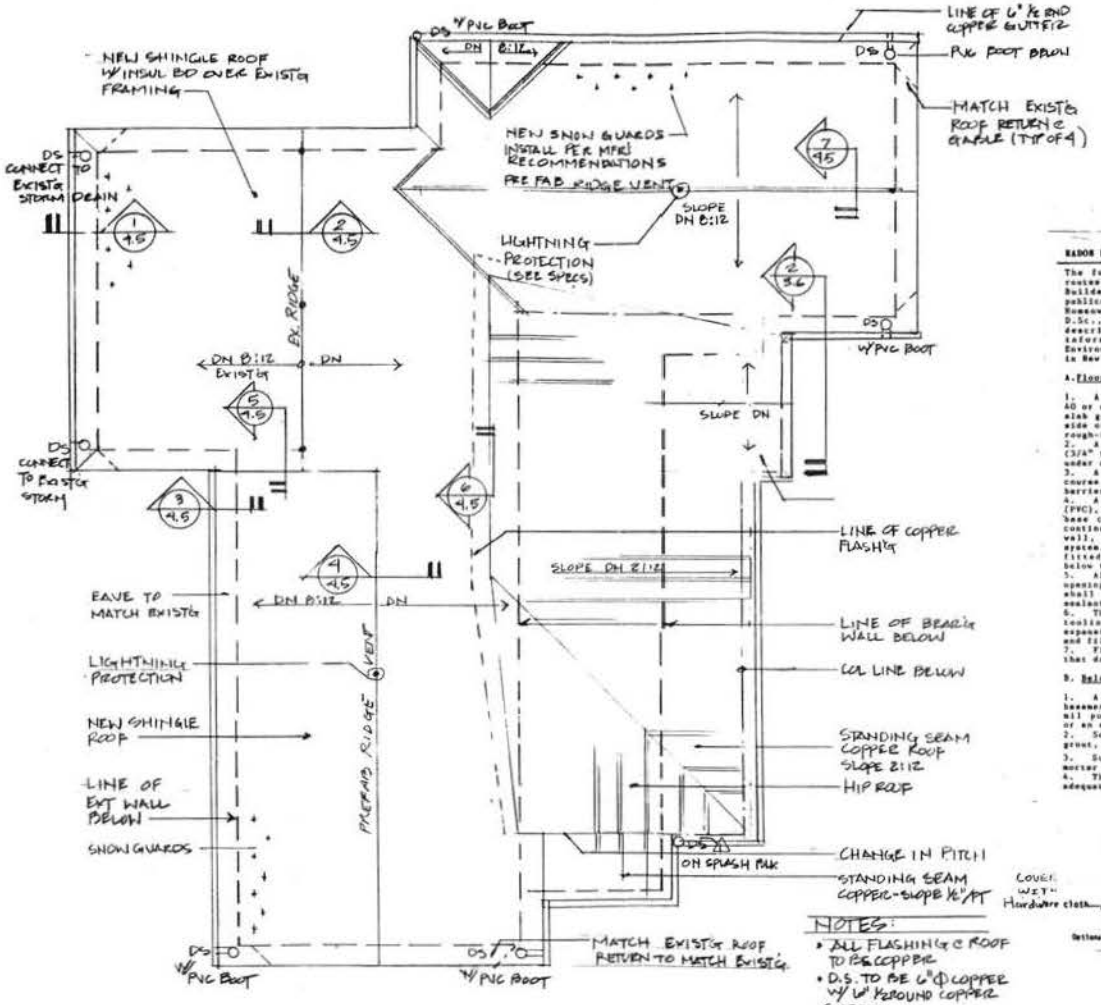


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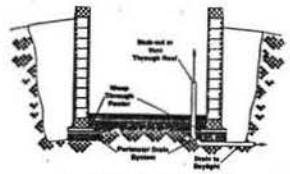
2.1
Elevations



NOTES:

- ALL FLASHING & ROOF TO BE COPPER
- D.S. TO BE 6"Ø COPPER W/ 6" ½ROUND COPPER GUTTERS
- LIGHTNING PROTECTION AIR TERMINALS TO BE COPPER. SEE ELEV FOR HTS
- SNOW GUARDS TO BE COPPER BERGER BROS. CO SGC100
- EAVE OVERHANG DIMENSIONS VARY - REFER TO ROOF FRAMING & FIELD CONDITIONS & DETAIL 3/4.5
- REFER TO CIVIL FOR STORM WATER CONNECTIONS

Floor Slabs



Perimeter Drain Depressurization

RADON MITIGATION NOTES

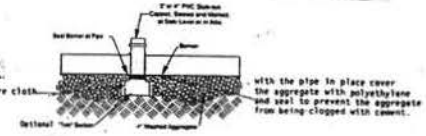
The following suggested methods for controlling radon entry routes have been excerpted from the National Association of Home Builders/ National Concrete Masonry Association (NAHB/NCMA) publication "Building Radon Resistant Foundations" and "Radon, A Homeowners Guide to Detection and Control" by Bernard Cohen, D.Sc., Avon Books. The methods and/or techniques stated or described herein are not intended to be complete. For more information, refer to the subject handbook or the U.S. Environmental Protection Agency (EPA) handbook, "Radon Reduction in New Construction".

A. Floor Slabs

1. A venting system consisting of a minimum of 3 inch Schedule 40 or equivalent, PVC pipe shall be inserted 1 inch into the sub-slab gravel base and terminated at least 6 inches above the high side of the roof penetration, to serve as a sub-slab ventilation rough-in.
2. A base course of four to six inches of washed aggregate (3/4" to 1 1/2" diameter), or an equivalent system, shall be used under concrete slabs-on-grade.
3. A vapor retarding barrier must be placed on top of the base course and under the slab to form a continuous barrier. The barrier shall be 6 mil polyethylene or an equivalent material.
4. A short section of three or four inch polyvinyl chloride (PVC), or equivalent pipe tee section may be placed down into the base course prior to pouring of the slab. The piping shall be continued up through the roof or exhausted through the foundation wall, for later use in a completed sub-slab depressurization system. If future radon tests indicate problems, a fan can be fitted in series with the pipe to exhaust radon-laden air from below the slab.
5. All potential radon entry routes, including concrete joints, openings for pipes, wires, etc., floor penetrations and cracks, shall be sealed with polyurethane or equivalent sealant. The sealant should be compatible with concrete and should be elastic.
6. The joint between the slab and the walls must be sealed by tooling the slab to receive a bead of sealant, or, if an expansion joint material is used, by cutting it back about a 1/2" and filling with sealant.
7. Floor drains that drain to the aggregate under the slab, or that drain by means of a pipe to a sump pump, shall be avoided.

B. Below-Grade Walls

1. A waterproofing barrier shall be provided on the exterior of basement or crawlspace walls below grade. The barrier may be 6 mil polyethylene, polyvinyl chloride, bituminous mastic coating or an equivalent material.
2. Solid block, or block with cores filled solid with mortar or grout, shall be used for the course at slab level.
3. Solid cap block, or block with cores filled solid with mortar or grout, shall be used at the tops of walls.
4. The design and construction of foundation walls shall be adequate to resist cracking.



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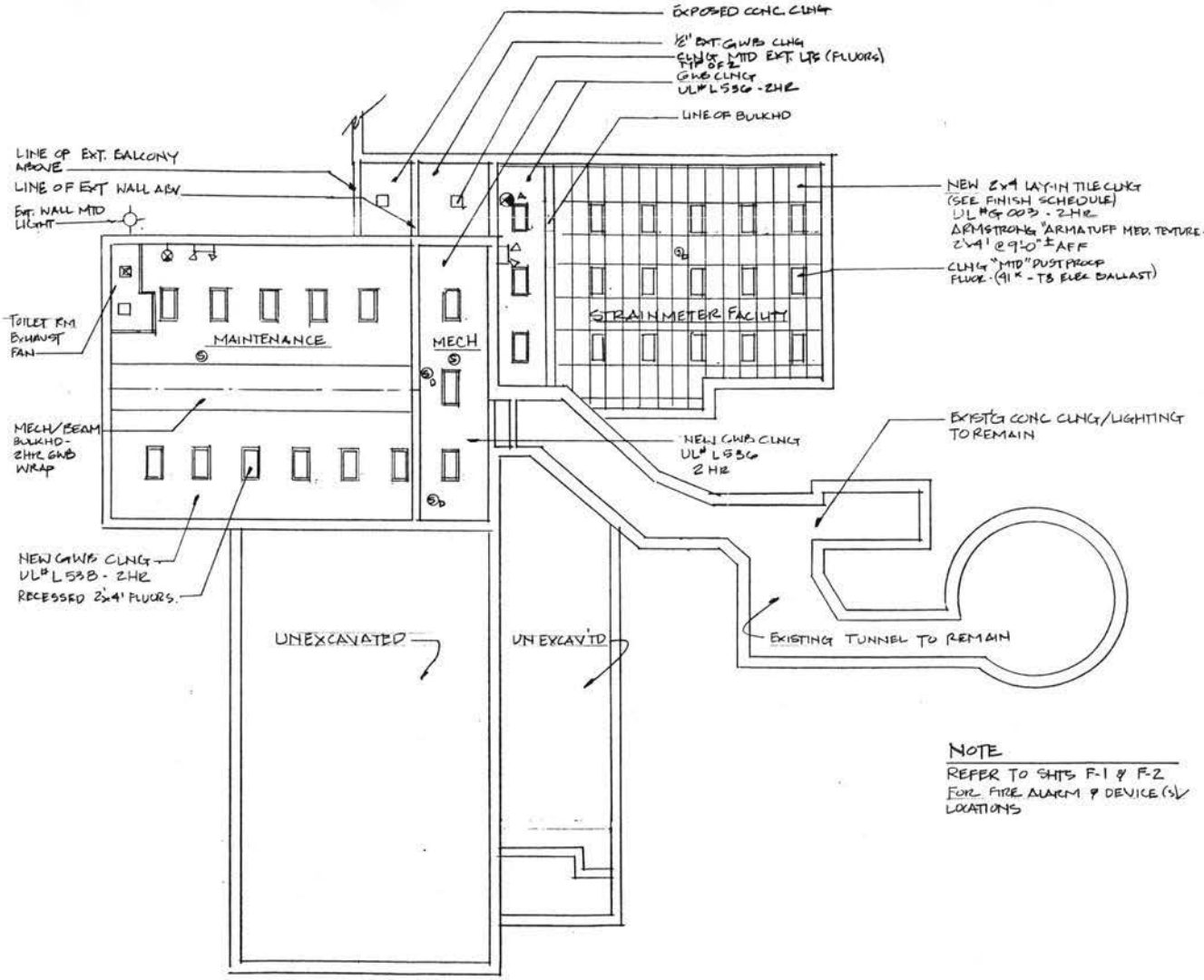
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1.6
Roof Plan
Radon Details



NOTE

REFER TO SHTS F-1 & F-2 FOR FIRE ALARM & DEVICE (S) LOCATIONS

1/1.5 BASEMENT CEILING PLAN 1/8" = 1'-0"

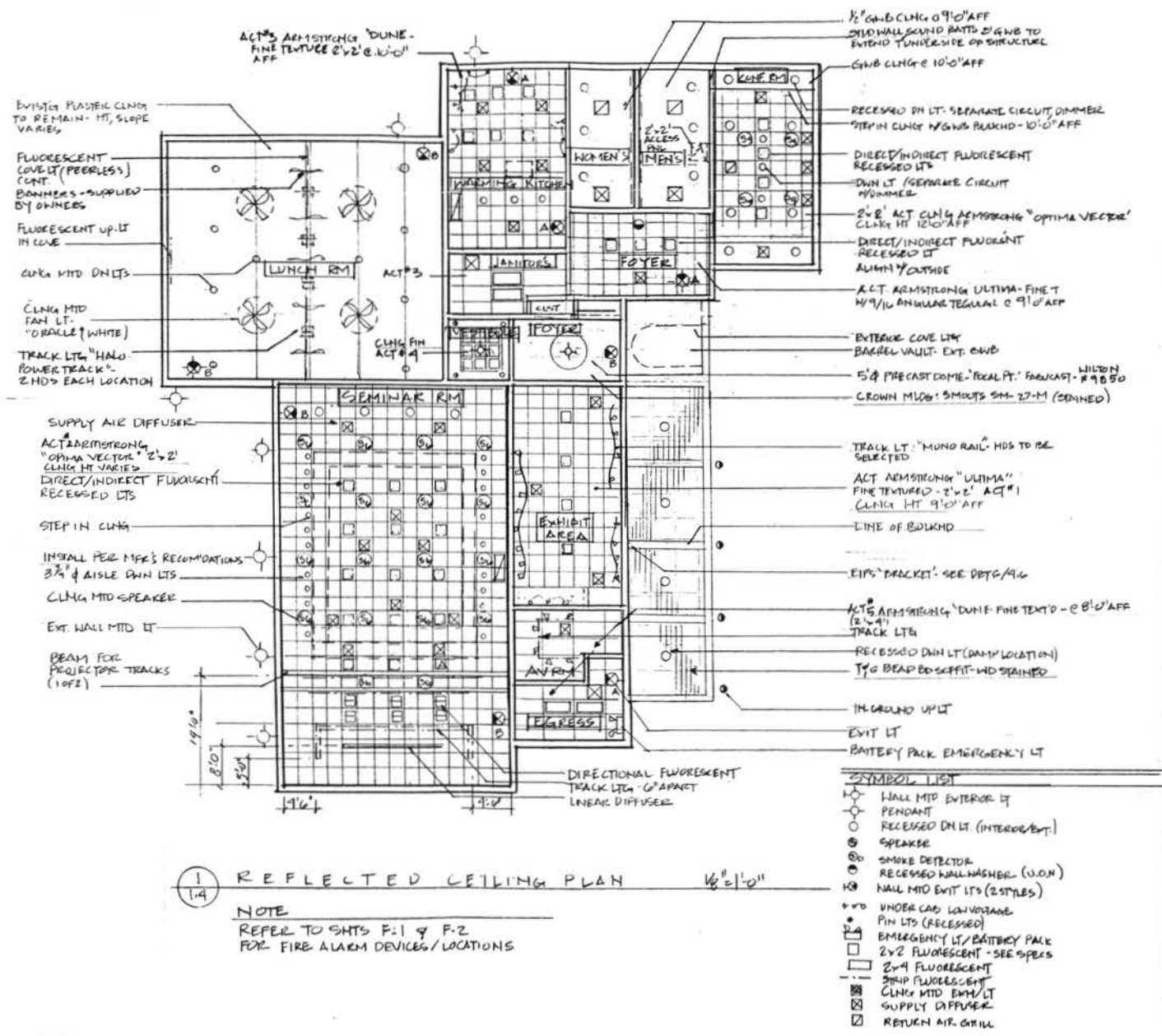
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1.5
Basement Ceiling Plan



1/1.4 REFLECTED CEILING PLAN 1/8" = 1'-0"

NOTE
REFER TO SHTS F:1 & F-2 FOR FIRE ALARM DEVICES / LOCATIONS

SYMBOL LIST

- WALL MTD EXTERIOR LT
- PENDANT
- RECESSED DN LT. (INTERIOR/EXT.)
- SPEAKER
- SMOKE DETECTOR
- RECESSED WALL WASHER (U.O.N)
- WALL MTD EXIT LTS (2 STYLES)
- UNDER CAB LOW VOLTAGE PIN LTS (RECESSED)
- EMERGENCY LT/BATTERY PACK
- 2x2 FLUORESCENT - SEE SPECS
- 2x4 FLUORESCENT
- STRIP FLUORESCENT
- CLNG MTD EXH/LT
- SUPPLY DIFFUSER
- RETURN AIR GRILL

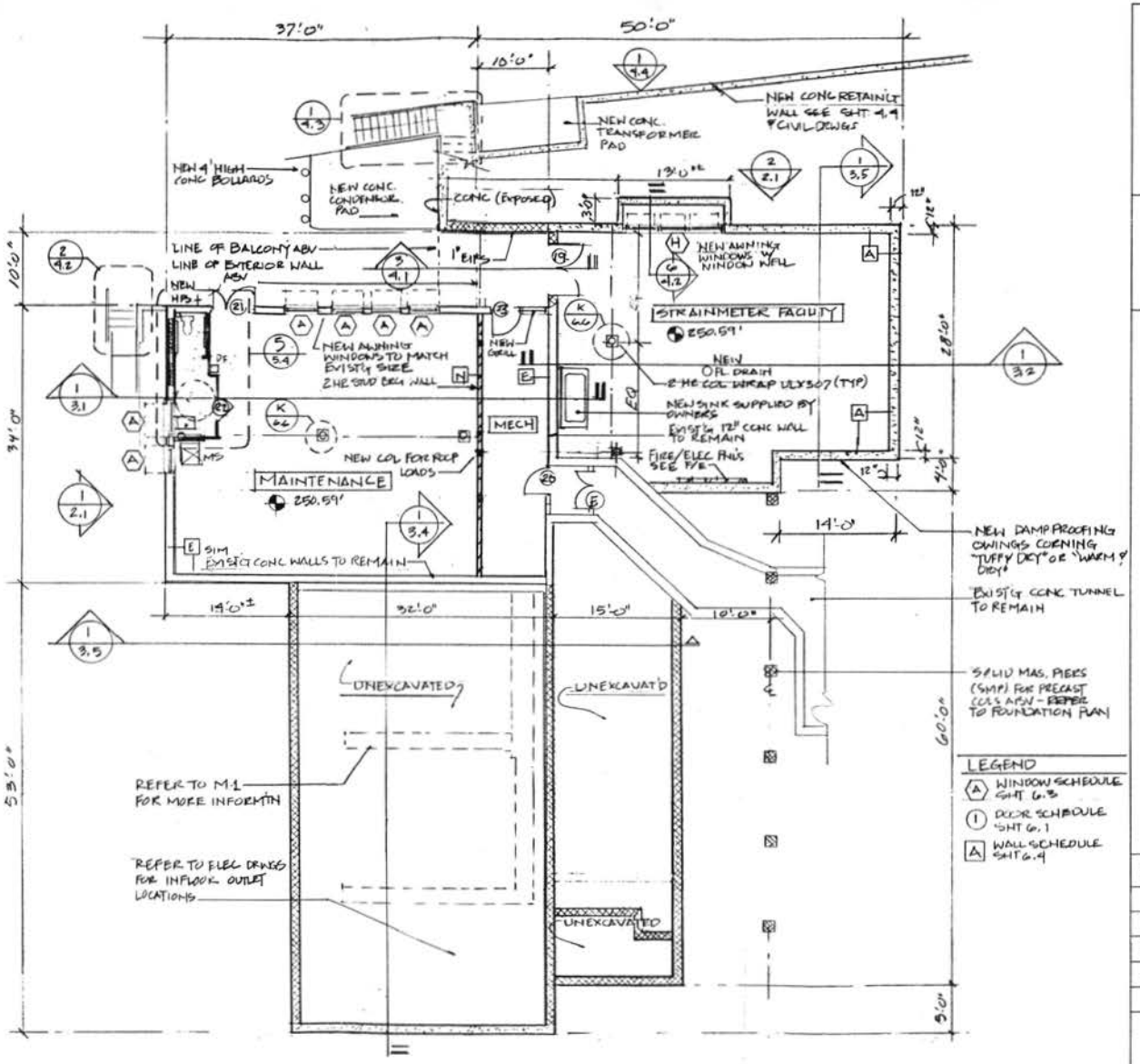
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1.4
1st Floor Ceiling Plan



1/1.3 BASEMENT FLOOR DIMENSION PLAN 1/8" = 1'-0"

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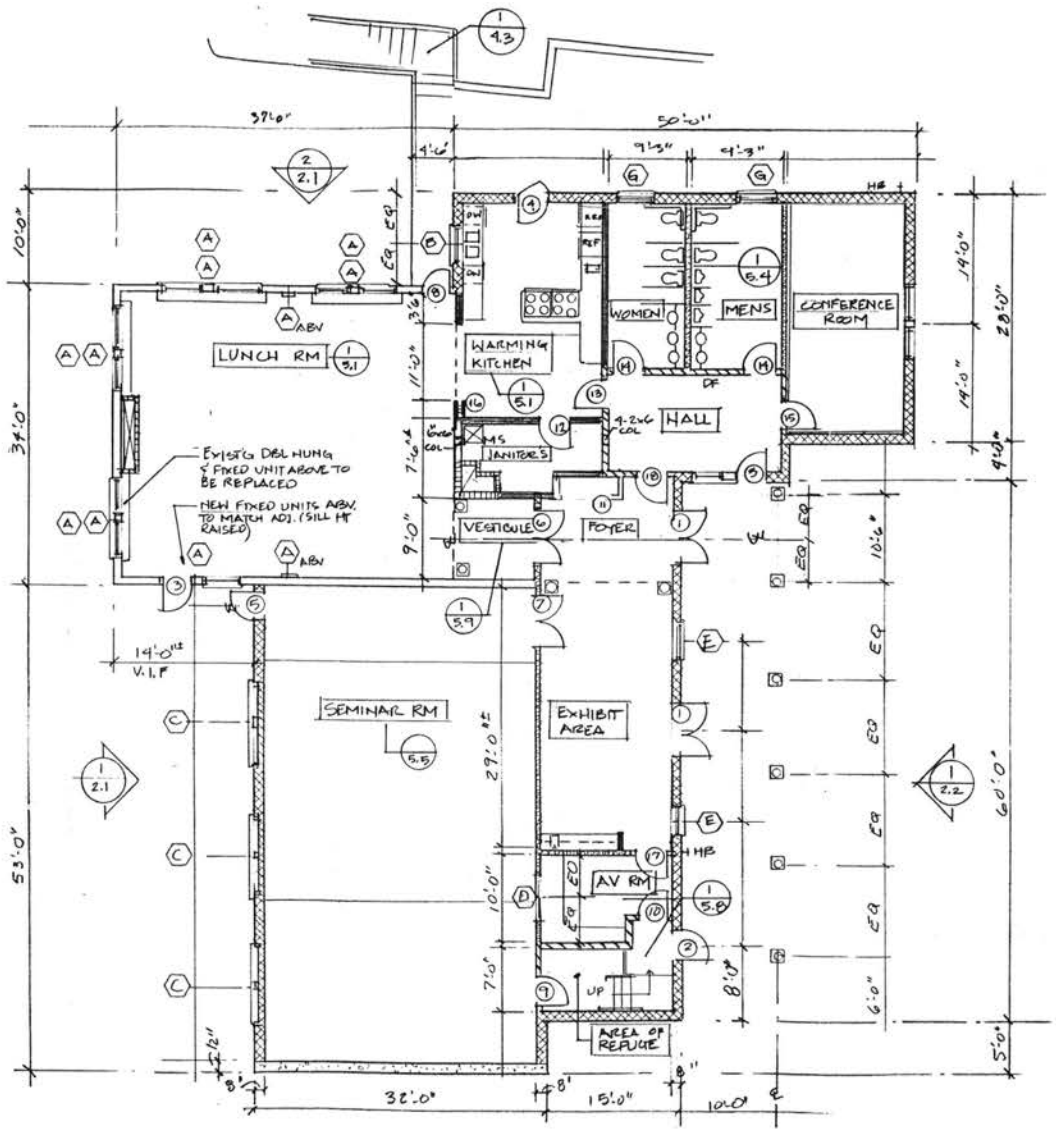
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1.3
Basement Plan



1/2 FIRST FLOOR DIMENSION PLAN

1/8"=1'-0"

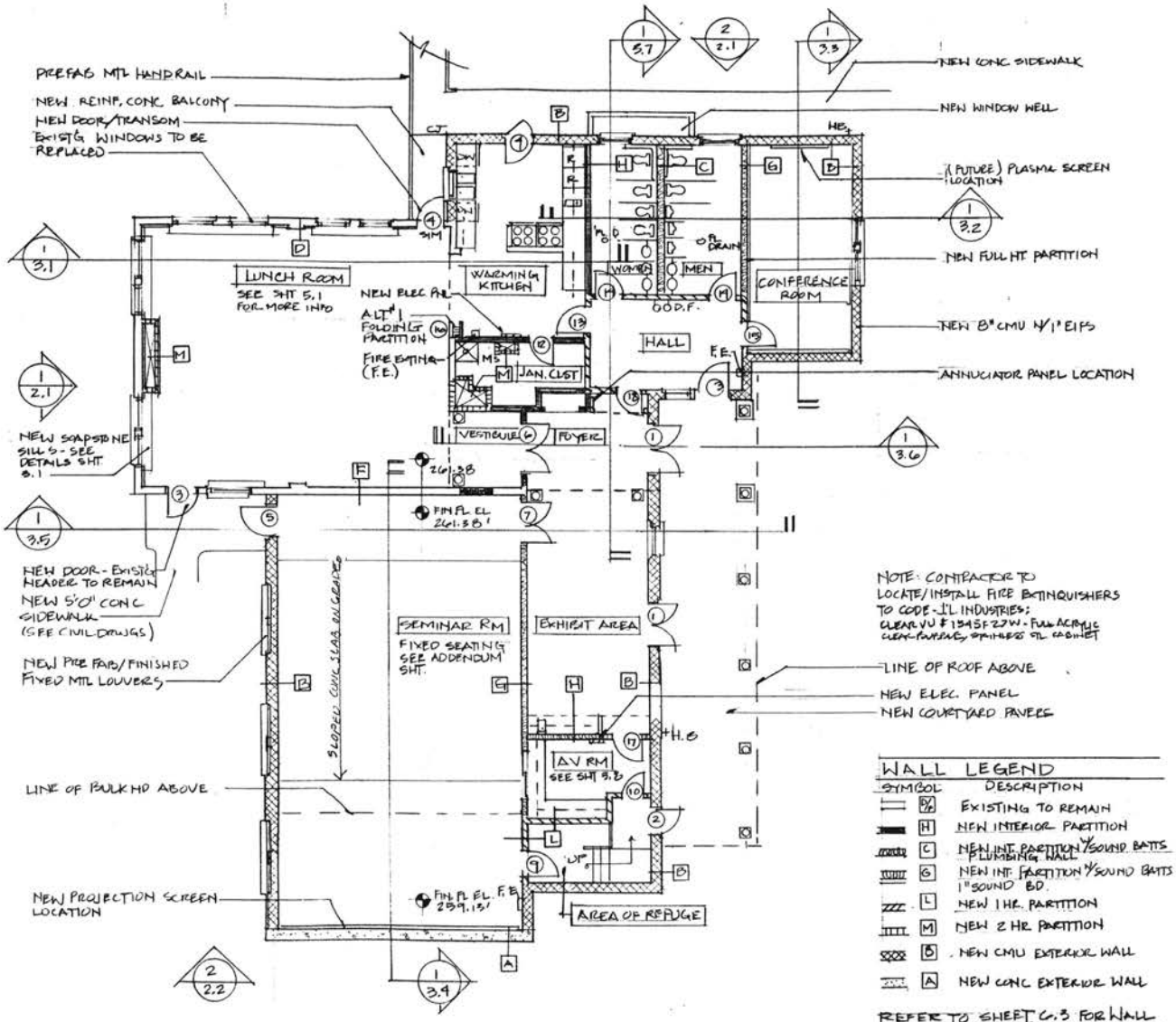
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1.2
1st Floor Plan Dimensions

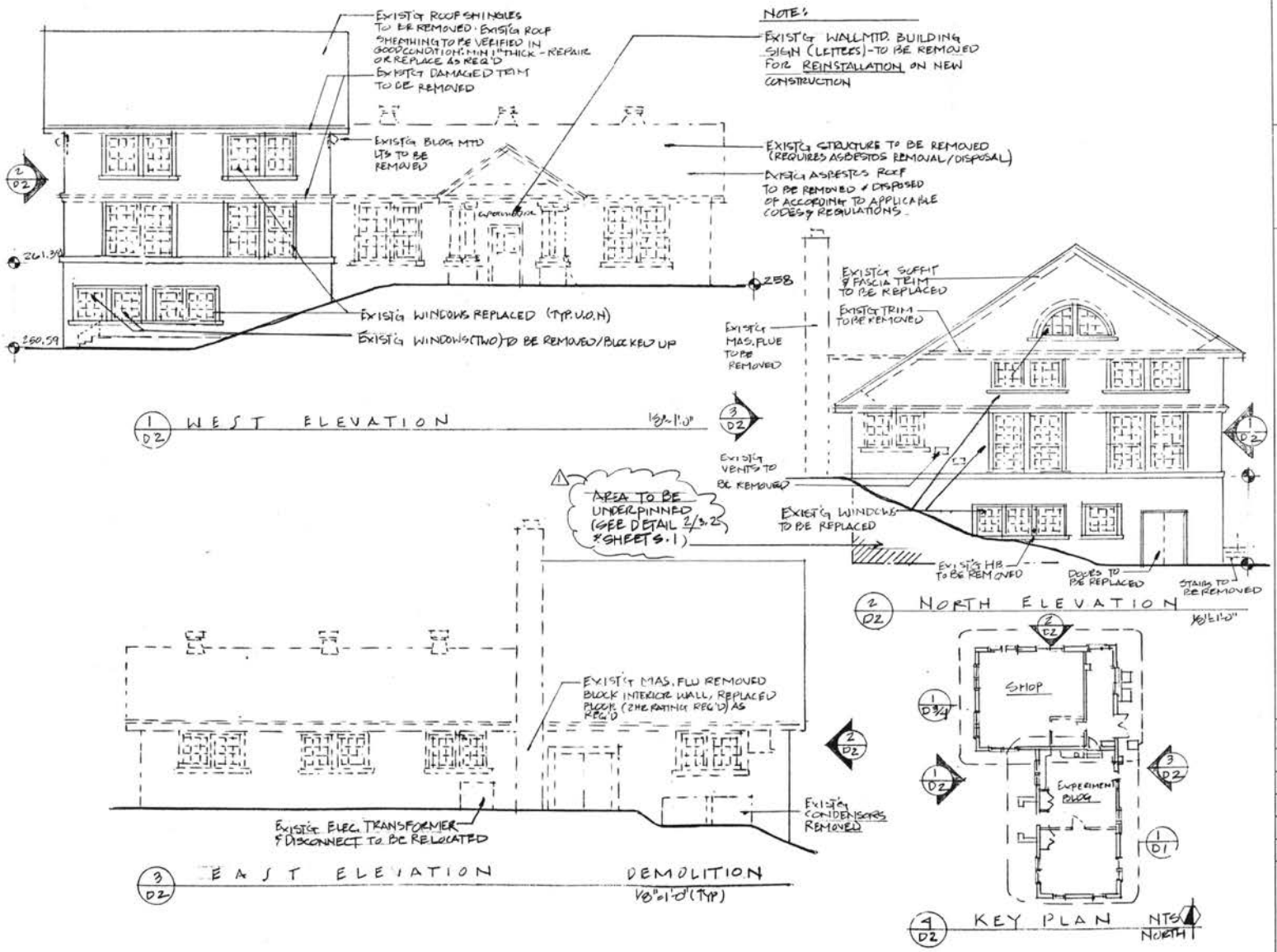


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1.1
1st Floor Plan
Wall Types



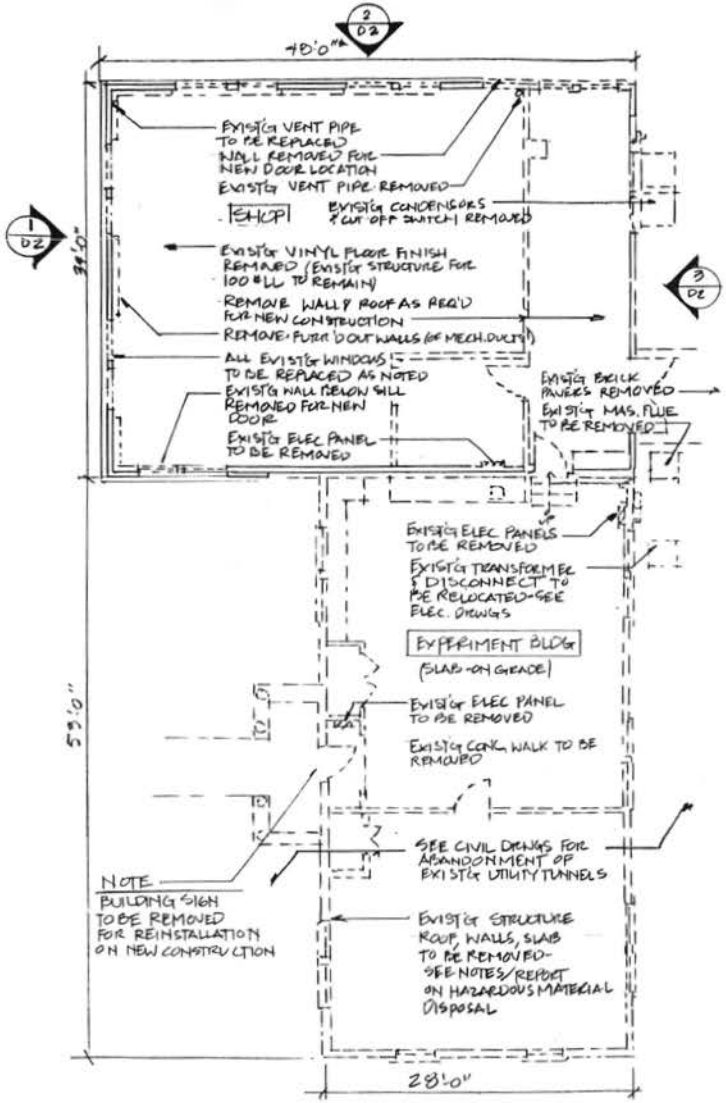
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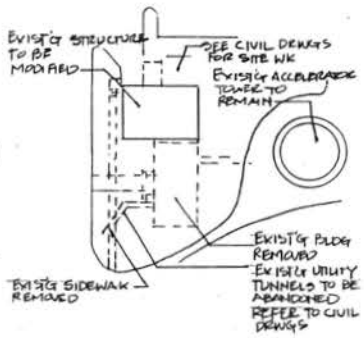
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D.2
Demolition



1 / D1 FIRST FLOOR DEMOLITION

NORTH | NTS

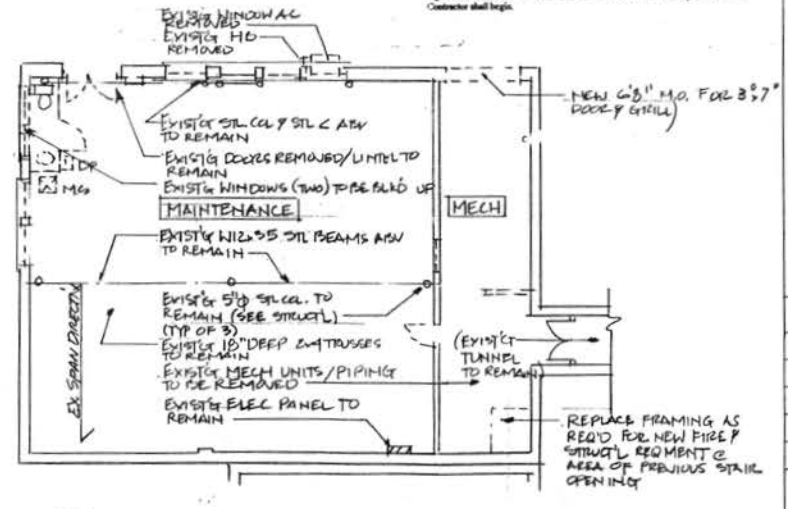


2 / D1 SITE PLAN

NORTH | NTS.

DEMOLITION NOTES

1. **Traffic:** Conduct demolition operations and removals of debris to ensure minimum interference with roads, streets, walks and other adjacent occupied and used facilities. Do not close or obstruct streets, walks, etc. without permission from authorities having jurisdiction. Consult Owners prior to Work for information to comply with local neighborhood traffic requirements.
2. **Protections:** Ensure safe passage of persons around area of demolition. Conduct operations to prevent damage to adjacent buildings, structures and other facilities to remain.
3. **Damages:** Promptly repair damages to adjacent facilities caused by demolition operations.
4. **Utility Services:** Disconnecting and sealing indicated utilities before start of work is part of this work. Refer to Mechanical notes. Do not outpersue demolition work until utility disconnections have been completed and verified.
5. **Pollution Controls:** Use watering sprinklering, temporary enclosures and other suitable methods to limit dust and dirt rising and scattering in air. This is critical for adjacent research laboratories. Comply with governing regulations pertaining to environmental protection. Do not use water when it may create hazardous or objectionable conditions. Clean adjacent structures and improvements of dust, dirt and debris caused by demolition operations. Return adjacent areas to conditions existing prior to start of work.
6. **Building Demolition:** Demolish building completely and remove from site. Use such methods as required to complete the work within the limitations of governing regulations. Proceed with demolition in a systematic manner, from top of structure to the ground. Complete demolition work above each floor or the before disturbing supporting members on lower levels. Demolish concrete and masonry in small sections. Building structures and foundations to be removed to a uniform depth of 12 inches below lowest foundation elevation (minimum soil bearing value of 2000 psf is required for new construction).
7. **Filling Basement and Voids:** Completely fill below grade areas and voids resulting from demolition of structures. Use satisfactory soil materials consisting of stone, gravel and sand, free from debris, trash, and frost. Place fill materials in horizontal layers not exceeding 6 inches in loose depth. Compact each layer at optimum moisture content of fill material to a density equal to original adjacent ground, but not less that 90% density when tested in accordance with ASTM D1556, unless subsequent excavation for new work is required. After fill placement and compaction, grade surfaces to meet adjacent contours and to provide flow to surface drainage structures. Refer to Civil Drawings for final elevations.
8. **Termite Control:** Employ a certified, licensed exterminator and treat entire area of building demolition and removal in accordance with governing health regulations for rodent and insect control.
9. **Disposal of Demolished Materials:** Remove weekly from site accumulated debris, rubbish and other materials resulting from demolition operations, and legally dispose off-site.
10. **Salvageable Items:** Items of salvageable value to the Contractor may be removed from structure as work progresses. Salvaged items must be transported from the site promptly.
11. **Hazardous Material:** Owners shall be responsible for employing a licensed company for the inspection of structure for hazardous materials prior to start of demolition. Test Report is available through Construction Manager. Hazardous Removal Company shall be responsible for the Inspection/Reports and legal disposal of any such materials, in accordance with all applicable codes and regulations. Hazardous material shall be removed before work by the General Contractor shall begin.



3 / D1 BASEMENT PLAN DEMOLITION

NORTH | NTS.

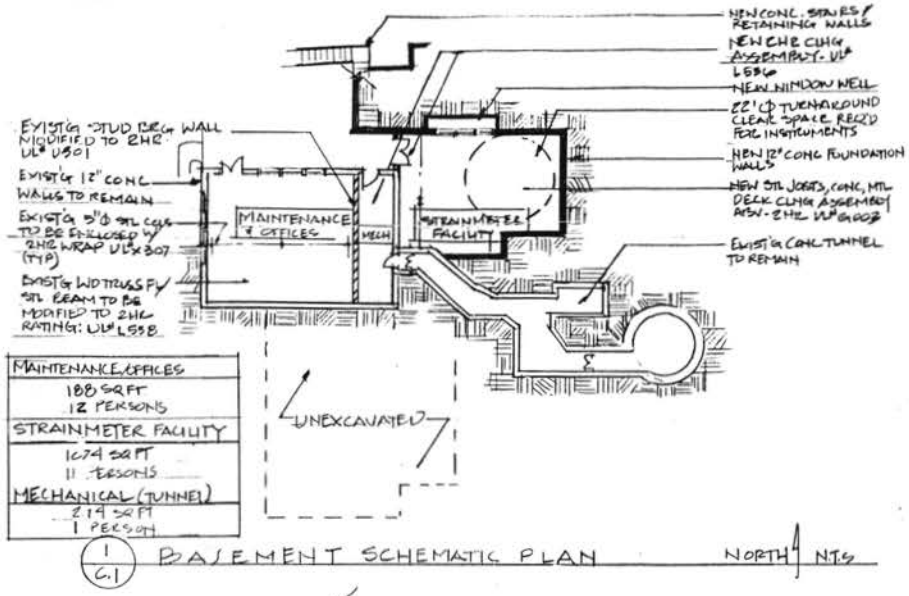
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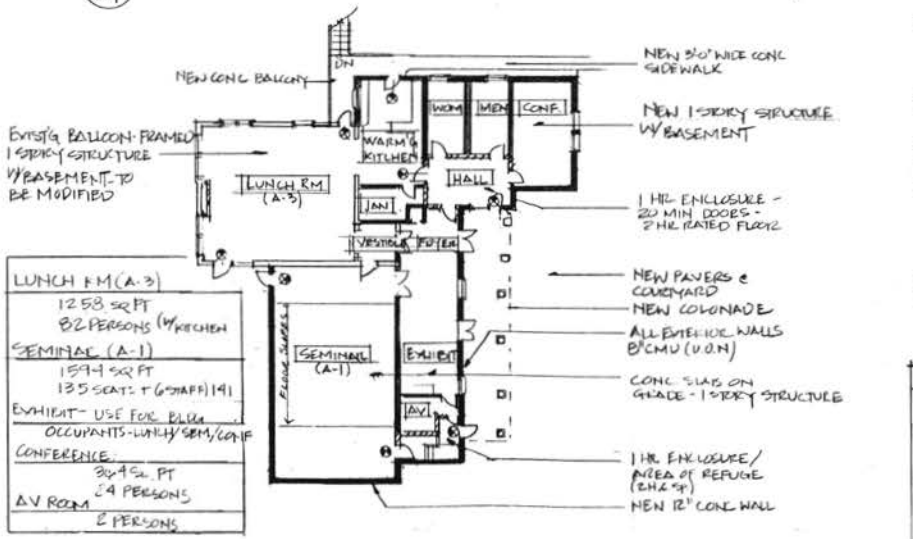
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PROJECT NO.
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D.1
Demolition



1/C.1 BASEMENT SCHEMATIC PLAN NORTH N.T.S



2/C1 FIRST FLOOR SCHEMATIC PLAN N.T.S NORTH

WALL LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	FIRE RATED ASSEMBLY (SEE PLANS)

CODE REMARKS – IBC 2000

Use Group:

Existing First Floor	Proposed First Floor
F-1 (Moderate Hazard)	A-1/A-3 Non-seperated Use
Existing Basement Floor	**Proposed Basement:**
F-1	B (Business)

Type Construction:
Existing: 5B Proposed: V- B

Height/Area Limitation: Table 503 – A-1 Use
Allowed: One-story; 5,500 Sq. ft. Provided: One-story/5,331 sq. ft.

Fire Separation Provided: 2 Hrs between first floor & basement level

Fire Ratings Required (Table 601):

Structural Frame	Allowed: 0 Hr.	Provided: 2 Hr./1 Hr.
Bearing Walls	Allowed: 0 Hr.	Provided: 2 Hr./1 HR.
Floor Construction	Allowed: 0 Hr.	Provided: 2 Hr.
Roof Construction	Allowed: 0 Hr.	Provided: 0 Hr.
Exit Access:	Required: 1Hr.	Provided: 1 Hr.
Sprinklered:	Existing: No	Provided: No
Fire Alarm:	Existing: Yes	Provided: Yes/Monitored

Occupancy Loads/Fire Ratings Provided see sheet [redacted] C..]

Use Group/Occupancy Loads:
Basement Level:
Strainmeter Facility – B (Business) 1074 sq. ft. @ 100/person = 11 Persons
Mechanical – 214 sq. ft. @ 300/person = 1 person
Maintenance/offices – 1188 sq. ft. @100/person = 12 persons

First Floor Level:
Seminar Room/with AV room – A-1 (Fixed Seating) 140 persons
Lunch Room – (A-3) 1258 sq. ft. @ 15/persons 84 persons
Conference Room – (A-3) 364 sq.ft. @ 15/person 24 Persons

Note: 'Exhibit Area' is for building occupants (seminar, conference, lunch) – not to be occupied in addition to other uses.

Egress Requirements:
Basement Level: Required: 1 exit per space Provided: 1 exit per space

First Floor Level:
Seminar Room: Required: 2 Exits Provided: 2 Exits to grade; Area of Refuge (1 Hr. enclosure)
Lunch Room: Required: 2 Exits Provided: 2 Exits at grade
Conference Room: Required: 1 Exit Provided: 1 Exit at grade (1 Hr. enclosure)

Note: See Plan for fire rating/UL numbers. UL details can be found on Sheets 6.5 and 6.6.

PROJECT DESCRIPTION

WORK INCLUDES: DEMOLITION: REMOVAL OF 1 STORY STRUCTURE - W/ASBESTOS FLOOR/ROOF (BY LICENSED CONTRACTOR)
- SELECTIVE DEMOLITION OF EXIST'G 1 STORY BALLOON FRAME W/ BASEMENT.
- CONSTRUCTION OF NEW 1 STORY 'SEMINAR/EXHIBIT AREA' = 2600 SQ FT) CONSTRUCTION OF NEW 1 STORY - 'CONFERENCE RM/TOILET RMS' W/ BASEMENT - 'STRAINMETER FACILITY' - 1600 SQ FT/FL
- MODIFICATION TO EXIST'G STRUCTURE TO REMAIN - 'KITCHEN/LUNCH RM' @ 1300 SQ FT/FL
- NEW GRADING, RETAINING WALLS, SIDEWALK, COURTYARD, CONC. PADS (REFER TO CIVIL DRWGS.)

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301-654-9831

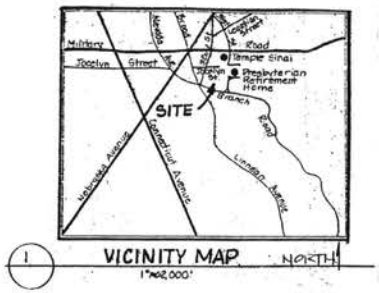
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The Carnegie Institution of Washington

PROJECT NO. 0014
ISSUE DATE 21 AUG 03
8 SEPT 03
12 SEPT 03

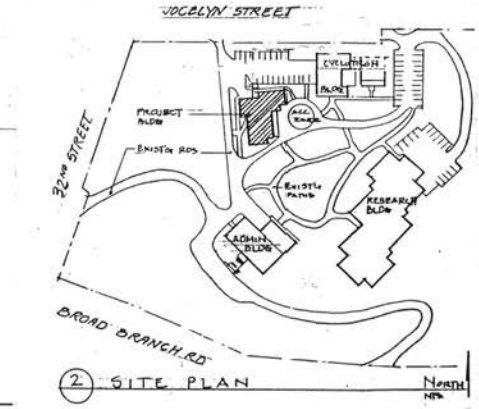
C.1
Code Remarks

GENERAL NOTES

1. Before submitting a bid, the Contractor & all Sub-Contractors shall visit the site to become familiar with the existing conditions and the extent of work required to complete the project.
2. Contractors shall not submit a bid for this work unless they are fully qualified and licensed by the City in which the work is to performed.
3. If the Contract Drawings are found to be unclear, ambiguous, or contradictory, the Contractor must request clarification from the Architect in writing before proceeding with the Work.
4. The Architect shall be available to visit the site when requested. If a condition exists that requires observation or action by the Architect or Engineer, the Contractor shall notify the Owner and the Architect.
5. Contractor shall be familiar with provisions of all applicable codes and shall insure the compliance of the work with all local, state and federal codes. In the event of conflict between state, local and federal codes, the more stringent shall govern. These documents do not include the necessary components for construction safety. Care of adjacent properties during construction, compliance with state and federal regulations regarding safety and compliance with requirements specified in the Owner/Contractor contract is, and shall be the Contractor's responsibility.
6. Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, techniques and safety procedures and for coordinating all portions of the work.
7. Contractor shall secure all permits and fees incurred in the completion of the work, including but not limited to building permits, water, electric and telephone service connection, certificate of occupancy surveys, and inspections.
8. Insurance: Workmen's compensation as required by law and public liability, shall be carried by the Contractor.
9. Guarantee: The Contractor shall guarantee all materials and workmanship furnished or installed by him or his Subcontractors for a period of one year from the date of acceptance and shall replace or repair any defective work within that period without expense to the Owners and pay for all damages to other parts of the building resulting from defective work with 10 days after it is brought to his attention.
10. Protection: The Contractor shall be responsible for his work and that of his Subcontractors for losses and damages to equipment, tools, and materials used in conjunction with the work and acts of his employees.
11. Cleaning up: The Contractor shall at all times keep the premises from accumulation of waste materials and rubbish and at completion of the work the contractor shall remove all rubbish, implements and surplus materials and leave the building clean, with painted and wood surfaces clean, all floors waxed and/or polished as specified and all glass and mirrors cleaned and polished.
12. Contractor is to provide a list of all Subcontractors used to this Owner, complete with addresses, phone numbers and copies of all warranties.
13. Scope of work. The Contractor shall include and provide all labor and materials, equipment, transportation and pay all expenses incurred in the proper completion of the work unless specifically noted to be work of others. Contractor shall perform all work necessary for the production of a complete, habitable project, including but not limited to site work, architectural, mechanical, plumbing and electrical.
14. Do not scale Drawings, use written dimensions for all measurements. All dimensions are to face of masonry or finish face, u.o.n. Conflicts, omissions shall be brought to the attention of the Architect for clarification.
15. The Contractor shall provide and install fire extinguishers as required and located by the Fire Marshal and in accordance with NFPA No.10 standards.



1 VICINITY MAP NORTH
1"=2,000'



2 SITE PLAN North



Owner:	The Carnegie Institution of Washington 5241 Broad Branch Rd. NW Washington D.C. Contact Person: Mr. Roy Dingus Tel. 202 478-7968 e-mail Dingus @DTM.CIW.EDU
Construction Administrator	Mr. John Boatwright Tel. 202 478-7969 Fax. 202 686-4445
Architect:	Archeus Studio – Lynne Iadarola 3417 Shepherd St. Chevy Chase, MD 20815 Tel. 301 654-8831 Fax. 301 654-4377 e-mail Archeus. Studio @ Verizon.Net
Structural	Advance Engineers, LTD – Mr. Tony Beale 6800 Backlick Rd. Suite 300 Springfield, VA 22150 Tel. 703 451-5222 Fax. 703 452-0522
MEP Engineer:	Engineering Connection – Mr. Tom Albrecht 4117 Jones Mill Rd. Chevy Chase, MD 20815 Tel. 301 657-3669 Fax. 301 657-9293
Civil Engineers	KCI Technologies, Inc. – Ms. Marianne Kiernan 14502 Greenview Dr. Suite 424 Laurel, MD 20708 Tel. 410-792-8086 Fax. 410 792-7419 e-mail mkiernan@kci.com
Audio Visual Consultants	Electro-Media Design, Ltd.- Dave Paseur 1010 Rockville Pike, suite 510 Rockville, MD 20852 Tel. 301 309-0110 Fax. 301 309-0039

INDEX TO DRAWINGS

C.0 Cover Sheet
C.1 Code Remarks
D.1 Demolition – Plans
D.2 Demolition – Elevations
1.1 1st Floor Plan – Wall Types
1.2 1st Floor plan – Dimensions
1.3 Basement Plan
1.4 1st Floor Reflected Ceiling Plan
1.5 Basement Reflected Ceiling Plan
1.6 Roof Plan – Radon Details
2.1 Exterior Elevations
2.2 Exterior Elevations
3.1 Bldg. Section at Lunch Room
3.2 Bldg. Section at Kitchen
3.3 Bldg. Section at Conference Room
3.4 Bldg. Section at Seminar Room
3.5 Bldg. Section at Seminar/Exhibit
3.6 Section Detail at Foyer
3.7 Section Detail at Hall
4.1 Section Details at Floor Framing
4.2 Exterior Stair Details
4.3 Exterior Stair Details
4.4 Retaining Wall – Plan/Elevation
4.5 Roof Details
4.6 E.I.F.S. Details
5.1 Kitchen/Lunch Rm. Plan Detail
5.2 Kitchen Elevations
5.3 Lunch Room Elevations
5.4 Toilet Room details
5.5 (not included – future)
5.6 (not included – future)
5.7 (not included – future)
5.8 Area of Refuge/AV Room Details
5.9 Vestibule Details
5.10 Trim Details
5.11 Floor Detail (optional)
5.12 Floor Plan – Finishes
6.1 Door/Window Schedules
6.2 Door Details
6.3 Wall Schedule/Details
6.4 Finish Schedules
6.5 (not included – future)
6.6 Fire Rating Details

Structural
S.0 Structural Notes
S.1 Foundation Plan
S.2 1st Floor Framing Plan
S.3 Roof Framing Plan
S.4 Detail Sheet

Mechanical
MPE Site Plan
M.1 Basement Mechanical Plan
M.2 1st Floor Mechanical Plan
M.3 Mechanical Notes
M.4 Mechanical Notes/Schedules
M.5 Mechanical Notes
P.1 Basement Plumbing Plan
P.2 1st Floor Plumbing Plan
P.3 Plumbing Notes
P.4 Plumbing Notes
E.1 Basement Electrical Plan
E.2 Basement Power Plan
E.3 1st Floor Electrical Plan
E.4 1st Floor Power Plan
E.5 Electrical Notes
E.6 Electrical Notes
E.7 Electrical Notes
E.8 AV Drawings
E.9 AV notes
E.10 AV Notes
F.1 Basement Fire Plan
F.2 1st Floor Fire Plan

Addendum: AV Drawings (Electro Media Design)
Fixed Seating (American Premier Seating)

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3417 Shepherd Street
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C.0
Cover Sheet