demolition notes

GENERAL

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G2. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL ITEMS AS NOTED AND AS REQUIRED TO COMPLETE THE WORK UNDER THIS CONTRACT.

G3. ALL ITEMS REMOVED BY THE CONTRACTOR ARE THE PROPERTY OF THE CONTRACTOR (UNLESS OTHERWISE NOTED) AND ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.

G4. SEE SPECIFICATIONS FOR DEMOLITION AND SITE PREPARATION REQUIREMENTS.

G5. SEE MECHANICAL AND ELECTRICAL SHEETS FOR DEMOLITION REQUIRED OF EXISTING MECHANICAL AND ELECTRICAL SYSTEMS.

G6. THE CONTRACTOR IS RESPONSIBLE FOR SHORING THE EXISTING STRUCTURE DURING REMOVAL OF ANY LOAD BEARING WALL OR STRUCTURAL MATERIAL.

G7. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL MATERIALS TO REMAIN THAT ARE ADJACENT TO DEMOLITION WORK.

G8. THE CONTRACTOR IS TO FURNISH AND INSTALL CONSTRUCTION FENCES AS INDICATED ON THE DRAWING. THESE FENCES ARE TO BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS OF THE NEW BUILDING CAN BE LOCKED AND SECURED, AND NO HAZARD EXISTS FOR THE UNIVERSITY PUBLIC.

G9. THE CONTRACTOR MAY USE THE SITE ONLY WITHIN THE CONSTRUCTION FENCING FOR STORAGE MATERIALS AND EQUIPMENT.

G10. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY EXISTING WALKS, PAVING, CURBS, DRIVES, ETC., THAT ARE DAMAGED DURING THE CONSTRUCTION PROCESS. THIS INCLUDES ALL ADJACENT PARKING AND DRIVES USED FOR ACCESS TO THE BUILDING SITE.

G11. THE CONTRACTOR IS TO CONDUCT CONSTRUCTION OPERATIONS AS TO ALLOW THE USE OF THE EXISTING LIBRARY AND MUSEUM SPACES. ANY INTERRUPTION OF EXISTING BUILDING SERVICES OR USE OF PORTIONS OF THE EXISTING BUILDING SPACES MUST BE COORDINATED WITH ASU PHYSICAL PLANT SEVEN DAYS PRIOR TO ANTICIPATED INTERRUPTION.

G12. PHASING: SOME PHASING OF DEMOLITION WORK & CONSTRUCTION WORK WILL BE REQUIRED DUE TO OWNER'S USE OF EXISTING LIBRARY & MUSEUM BUILDINGS. WORK IS TO BE COMPLETED INSOMUCH AS POSSIBLE IN AN ORDER THAT WILL LEAST IMPEDE THE USE OF EXISTING STRUCTURES. IN GENERAL, MAINTAIN EXISTING FRONT ENTRANCES AS LONG AS PRACTICAL. DO NOT DISRUPT EXISTING INTERIOR SPACES UNTIL WORK IS TO BEGIN IN THESE AREAS. COORDINATE ALL OPERATIONS WITH ASU PHYSICAL PLANT.

SPECIFIC

1. REMOVE EXISTING BUILDING, BUILDING STRUCTURE, FLOOR SLABS, STEPS, PLAZA, PAVING, WALKS, DOCK, & ALL EXISTING MATERIALS BETWEEN THE EXISTING LIBRARY AND THE EXISTING MUSEUM TO PREPARE SITE FOR NEW CONSTRUCTION. SEE MECHANICAL & ELECTRICAL DEMOLITION SHEETS FOR EXTENT OF DEMOLITION TO EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS. SEE DEMOLITION FLOOR PLANS.
2. PORTION OF EXISTING MUSEUM BUILDING TO BE REMOVED - SEE DEMOLITION FLOOR PLANS.
3. EXISTING WALKS TO BE REMOVED AS REQUIRED FOR NEW CONSTRUCTION.
4. EXISTING ASPHALT PAVING TO BE REMOVED AS REQUIRED FOR NEW CONSTRUCTION.
5. EXISTING BRICK SCREEN WALL, EQUIPMENT PAD, CONCRETE SLAB, AND FOOTINGS TO BE REMOVED. SEE MECHANICAL AND ELECTRICAL DEMOLITION PLANS.
6. LOCATION OF CONSTRUCTION FENCING TO BE PROVIDED BY THE CONTRACTOR - SEE SPECIFICATIONS.
7. EXISTING CURBS TO BE REMOVED AS REQUIRED FOR NEW CONSTRUCTION.
8. EXISTING SERVICE DRIVE AND DOCK AREA TO REMAIN. CONTRACTOR IS TO KEEP THIS AREA OPEN AND AVAILABLE FOR USE BY OWNER AS REQUIRED DURING CONSTRUCTION PROCESS. DEMOLITION AND CONSTRUCTION IN THIS AREA TO BE COORDINATED WITH ASU PHYSICAL PLANT.
9. REMOVE ALL EXISTING PLAZA CONCRETE, PAVING, PLANTERS, PLANTER FOOTINGS, AND BENCHES.
10. REMOVE EXISTING CONCRETE BRIDGE AND CONCRETE RAILINGS AT SECOND FLOOR ENTRANCE TO EXISTING MUSEUM. REMOVE CONCRETE RAILING.
11. REMOVE EXISTING CONCRETE STAIR AND FOOTINGS.
12. REMOVE EXISTING CONCRETE RETAINING WALLS. REMOVE EXISTING CONCRETE RAILINGS WHERE OCCUR.
13. REMOVE EXISTING PLAZA CONCRETE BRIDGE, RETAINING WALL, AND CONCRETE RAILING.
14. REMOVE EXISTING GRAVEL FILL.
15. REMOVE EXISTING BRICK WALLS AND FOOTINGS.
16. REMOVE EXISTING CONCRETE STEPS AND BRICK WALLS.
17. REMOVE EXISTING BRICK PAVING, CONCRETE SLABS, AND FOOTINGS AS REQUIRED FOR NEW CONSTRUCTION.
18. REMOVE EXISTING METAL GRILLE WORK AT EXISTING ENTRY PORCH.
19. CONSTRUCT TEMPORARY WALL TO PROTECT EXISTING GLAZING, STONE SILLS, AND FACE OF EXISTING COMMUNICATIONS BUILDING. CONSTRUCT WALL TO HEIGHT JUST ABOVE EXISTING WINDOWS (8'-0" - GROUND TO TOP OF WALL); SEE DETAIL 1-A1.
20. REMOVE 8'-0" WIDE X 8'-0" TALL OPENING IN EXISTING CONCRETE WALL. EXACT LOCATION OF OPENING TO BE AT THE DIRECTION OF THE ARCHITECT. SEE FIRST FLOOR DEMOLITION PLAN.
21. REMOVE EXISTING GLAZING FROM ENDS OF EXISTING CONCRETE ROOF FORM.
22. LOCATION OF EXISTING TRACK; RELOCATE END OF TRACK AS SHOWN. REUSE EXISTING MATERIALS. THIS WORK IS TO BE COMPLETED AT THE BEGINNING OF THE PROJECT.
23. EXISTING WALK TO REMAIN IN PLACE FOR STUDENT USE DURING CONSTRUCTION PROCESS. REMOVE ONLY WHEN READY TO CONSTRUCT PLAZA. SEE NOTE G-12.
24. REMOVE EXISTING CONCRETE RETAINING WALL AND PIPE RAILINGS.
25. EXISTING CONCRETE TUNNEL BELOW GROUND FLOOR IS TO REMAIN AND NOT BE DISTURBED DURING CONSTRUCTION PROCESS. SPECIAL CARE SHOULD BE GIVEN DURING THE CONSTRUCTION OF FOOTINGS AND DURING ALL DEMOLITION WORK. TUNNEL CONTAINS EXTENSIVE COMPUTER CABLES. ANY CONFLICT OF CONSTRUCTION WITH THE TUNNEL IS TO BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
26. CONTRACTOR IS TO CONSTRUCT A TEMPORARY PROTECTIVE ENTRY WALKWAY TO THE EXISTING MUSEUM AS DETAILED; SEE DETAIL 2-A1. SEE FIRST FLOOR DEMOLITION PLAN FOR OTHER TEMPORARY WORK INSIDE BUILDING. NOTE: PROVIDE 4'-0" X 4'-0" GLASS PANEL ON NORTH WALL FOR SECURITY.
27. REMOVE PORTION OF EXISTING CONCRETE FOLDED PLATE ROOF (SHADED AREA); ON THE NORTH END, REMOVE FOLDED PLATE BACK TO FACE OF THE EXISTING CONCRETE BEAM; ON THE EAST AND WEST SIDES, REMOVE THE ONE OVERHANGING CONCRETE PLATE BACK TO THE FACE OF THE EXISTING CONCRETE BEAM. SEE ARCHITECTURAL DETAILS. PROTECT EXIST. ROOF DURING THIS WORK.
28. REMOVE EXISTING PLAZA CONCRETE STEPS, HANDRAILINGS, AND ALL EXISTING MATERIALS TO FACE OF EXISTING LIBRARY BUILDING; SEE NOTE 1.
29. REMOVE ALL EXISTING CONCRETE AND MASONRY WALLS, SLABS, DOORS AND FRAMES UNDER EXISTING PLAZA STEPS. ALL ITEMS TO BE REMOVED TO FACE OF EXISTING LIBRARY BUILDING; SEE NOTE 1.
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33. REMOVE EXISTING CONCRETE BLOCK (BRICK) WALLS AND STUD WALLS AS INDICATED. REMOVE ALL DOORS AND FRAMES.
34. MOVABLE PARTITION WALLS SINDICATED BY SINGLE DASHED LINE) ARE TO BE REMOVED BY ASU.
35. REMOVE SUSPENDED ACOUSTICAL CEILING AND CEILING GRID THIS AREA. SEE REFLECTED CEILING PLANS.
36. INSTALL DUSTPROOF, WEATHER TIGHT PARTITIONS AS INDICATED AND REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION WORK THAT WILL EXPOSE ANY EXISTING INTERIOR SPACES TO THE CONSTRUCTION WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE EXISTING SPACES FROM DUST, DEBRIS, AND WEATHER CAUSED BY DEMOLITION AND CONSTRUCTION WORK. PARTITION LOCATIONS SHOWN ARE SUBJECT TO THE CONTRACTOR'S RECOMMENDATIONS AND CHOICE OF CONSTRUCTION SEQUENCE. ALL WORK MUST BE COORDINATED WITH ASU PHYSICAL PLANT. SEE NOTE G12. PARTITIONS ARE TO BE CONSTRUCTED USING 2X4'S AT 2'-0" O.C.; WALL IS TO RECEIVE PLASTIC VAPOR BARRIER UNDER ½" PLYWOOD SHEETS ON THE OUTSIDE FACE AND ½" PLYWOOD SHEETS ON THE INSIDE FACE. INSTALL 30 LB. FELT ON OUTSIDE; INSTALL 3½" FIBERGLASS BATTS BETWEEN STUDS; PARTITION TO BE CAULKED ALL AROUND AND BE DUST AND WEATHER TIGHT. DOORS TO BE AT CONTRACTOR'S DISCRETION AND BE PROVIDED WITH PADLOCK.

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temp. protective walkway 2

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

protective wall 1

(SEE NOTE 19) SCALE : 1/2" = 1'-0"

site preparation and demolition plan

SCALE : 1" = 30'-0"

ADDITIONS AND ALTERATIONS TO

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Brackett Krennerich and Associates, P.A.

Architects, Engineers, Planners

BRACKETT-KRENNERICH & ASSOCIATES, P.A. REGISTERED ARCHITECTS C13 ARKANSAS

COMM. NO. 11990

A1

DATE: SEPT. 15, 1991

demolition notes

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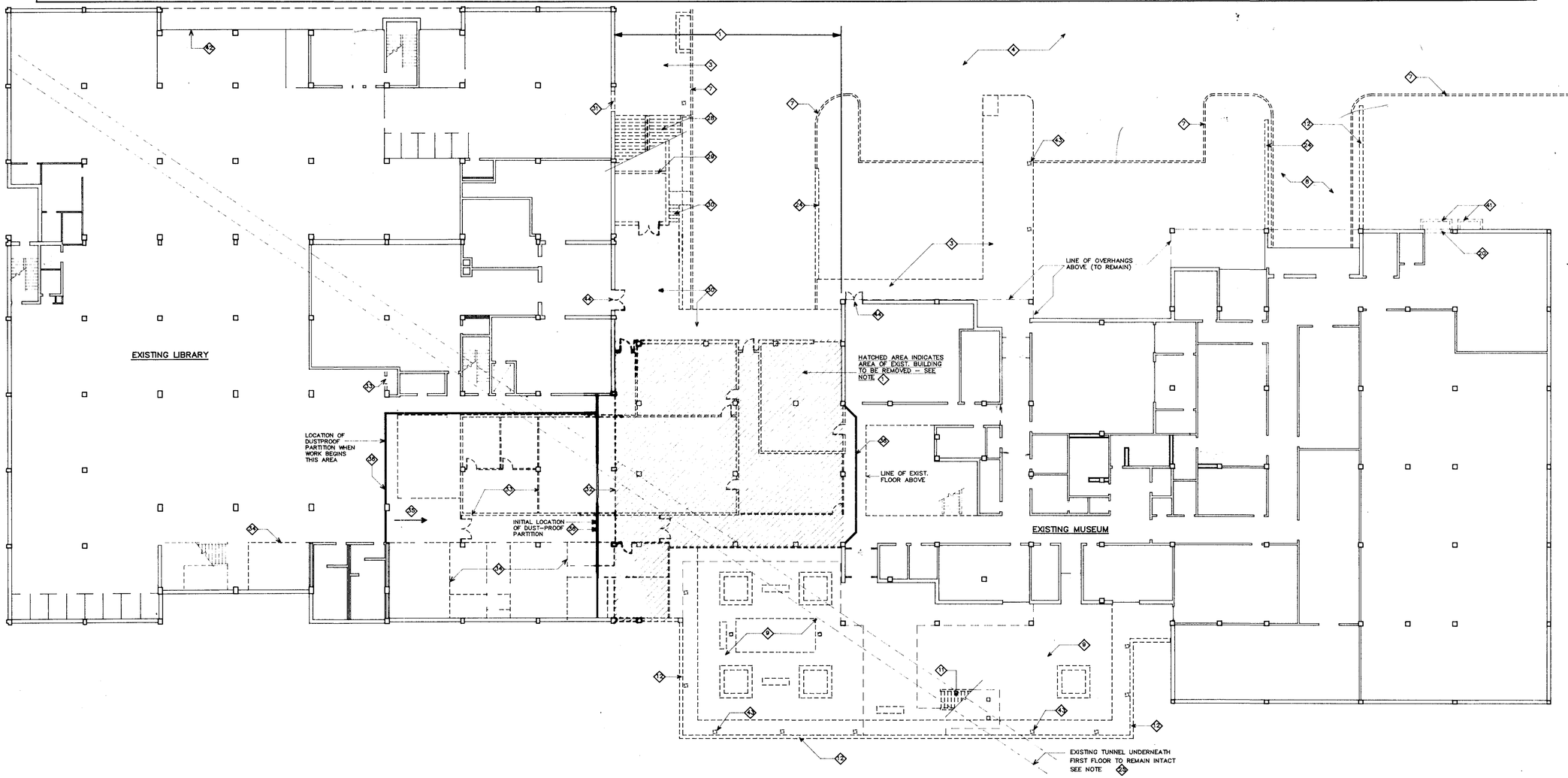

first floor demolition plan

SCALE : 1/16" = 1'-0"

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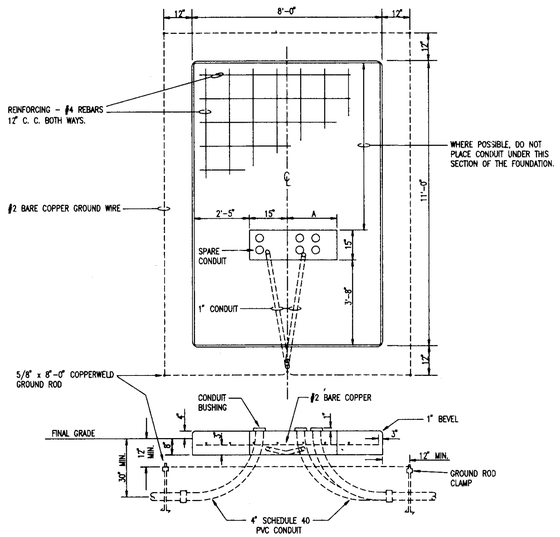
Brackett Krenrich and Associates, Inc.

COMM. NO. 11990
A2
DATE: SEPT. 15, 1991

Architects Engineers Planners

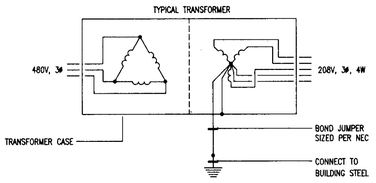
BRUNING 40-9020 121991



TRANSFORMER KVA	DIMENSION A
150-500	20"
750-2000	29"

THREE PHASE TRANSFORMER PAD DETAIL

N.T.S.



TRANSFORMER GROUNDING DETAIL

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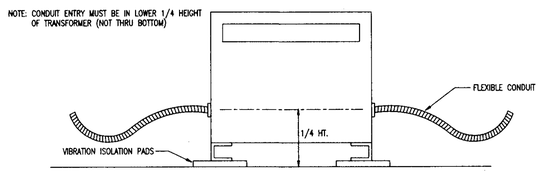

TRANSFORMER CONDUIT INSTALLATION DETAIL

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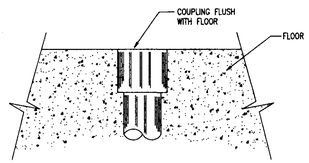

CONDUIT STUB-UP DETAIL

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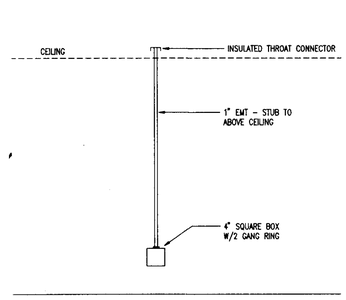
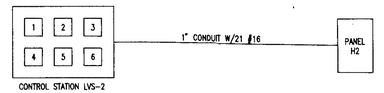
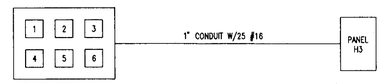


TYPICAL PHONE OR DATA OUTLET

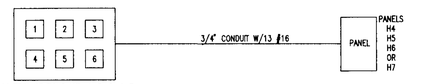
N.T.S.



SWITCH	CIRCUIT CONTROLLED	NAME PLATE TEXT
1	H2-1	NORTH LIGHTS
2	H2-3, H2-5	EAST FLOOR LIGHTS
3	H2-7, H2-9	WEST FLOOR LIGHTS
4	H2-11, H2-13	WEST FLOOR & GROUP STUDY
5	H2-15, H2-17	WEST FLOOR & GROUP STUDY
6	H2-19	SOUTH GROUP STUDY



SWITCH	CIRCUIT CONTROLLED	NAME PLATE TEXT
1	H3-1, H3-21	GROUP STUDY, LOUNGE, MAIN LOBBY
2	H3-3, H3-5	EAST FLOOR LIGHTS
3	H3-7, H3-9	CENTER FLOOR LIGHTS
4	H3-11, H3-13	WEST FLOOR LIGHTS
5	H3-23, H3-25	MAIN LOBBY LIGHTS
6	H3-27, H3-14	MAIN LOBBY & ENTRY LIGHTS



SWITCH	CIRCUIT CONTROLLED	NAME PLATE TEXT
1	H_-3	GROUP STUDY, LOUNGE, NORTH FLOOR
2	H_-5, H_-7	EAST FLOOR LIGHTS
3	H_-9, H_-11	CENTER FLOOR LIGHTS
4	H_-13, H_-15	WEST FLOOR LIGHTS
5	(FUTURE)	(FUTURE)
6	(FUTURE)	(FUTURE)

NOTES: (1) PROVIDE NAME PLATE ON EACH CONTROL STATION AS SHOWN BELOW:

DO NOT PRESS MORE THAN ONE SWITCH AT ONCE

LETTERING TO USE 1/4" HIGH LETTERS.

(2) ALL WIRING IS TO BE DONE USING TERMINAL STRIPS. POINT TO POINT WIRING IS NOT ALLOWED. ALL TERMINATIONS ARE TO BE DONE USING SPADE LUGS. ALL CONTROL WIRING IS TO BE #16 MTW IN CONDUIT.

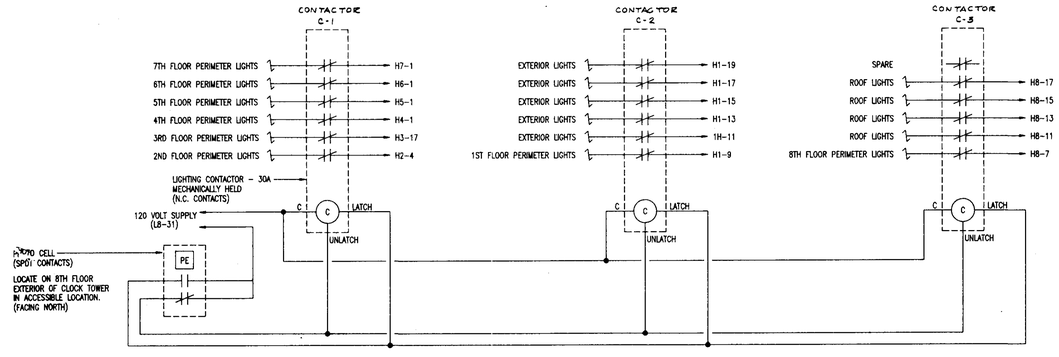
LOW VOLTAGE SWITCHING DETAIL

N.T.S.

DRAWINGS, SHEET E-29

A. Add to Control Station LVS-3, a second 6 switch station controlling breakers in Panel L3 as shown in attached Partial Plan E29-A1.

B. The number of conductors between Control Stations LVS-4, 5, 6 and 7 and Panels H4, H5, H6 and H7 should be 15-#16 rather than 13-#16.



EXTERIOR & PERIMETER LIGHTING CONTROL DIAGRAM

N.T.S.

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demolition notes

GENERAL

G1. THE CONTRACTOR IS TO VISIT THE SITE AND BE FULLY FAMILIAR WITH EXISTING CONDITIONS BEFORE SUBMITTING HIS BID; SEE SPECIFICATIONS FOR PRE-BID CONFERENCE.

G2. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL ITEMS AS NOTED AND AS REQUIRED TO COMPLETE THE WORK UNDER THIS CONTRACT.

G3. ALL ITEMS REMOVED BY THE CONTRACTOR ARE THE PROPERTY OF THE CONTRACTOR (UNLESS OTHERWISE NOTED) AND ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.

G4. SEE SPECIFICATIONS FOR DEMOLITION AND SITE PREPARATION REQUIREMENTS.

G5. SEE MECHANICAL AND ELECTRICAL SHEETS FOR DEMOLITION REQUIRED OF EXISTING MECHANICAL AND ELECTRICAL SYSTEMS.

G6. THE CONTRACTOR IS RESPONSIBLE FOR SHORING THE EXISTING STRUCTURE DURING REMOVAL OF ANY LOAD BEARING WALL OR STRUCTURAL MATERIAL.

G7. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL MATERIALS TO REMAIN THAT ARE ADJACENT TO DEMOLITION WORK.

G8. THE CONTRACTOR IS TO FURNISH AND INSTALL CONSTRUCTION FENCES AS INDICATED ON THE DRAWING. THESE FENCES ARE TO BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS OF THE NEW BUILDING CAN BE LOCKED AND SECURED, AND NO HAZARD EXISTS FOR THE UNIVERSITY PUBLIC.

G9. THE CONTRACTOR MAY USE THE SITE ONLY WITHIN THE CONSTRUCTION FENCING FOR STORAGE MATERIALS AND EQUIPMENT.

G10. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY EXISTING WALKS, PAVING, CURBS, DRIVES, ETC., THAT ARE DAMAGED DURING THE CONSTRUCTION PROCESS. THIS INCLUDES ALL ADJACENT PARKING AND DRIVES USED FOR ACCESS TO THE BUILDING SITE.

G11. THE CONTRACTOR IS TO CONDUCT CONSTRUCTION OPERATIONS AS TO ALLOW THE USE OF THE EXISTING LIBRARY AND MUSEUM SPACES. ANY INTERRUPTION OF EXISTING BUILDING SERVICES OR USE OF PORTIONS OF THE EXISTING BUILDING SPACES MUST BE COORDINATED WITH ASU PHYSICAL PLANT SEVEN DAYS PRIOR TO ANTICIPATED INTERRUPTION.

G12. PHASING: SOME PHASING OF DEMOLITION WORK & CONSTRUCTION WORK WILL BE REQUIRED DUE TO OWNER'S USE OF EXISTING LIBRARY & MUSEUM BUILDINGS. WORK IS TO BE COMPLETED INSOMUCH AS POSSIBLE IN AN ORDER THAT WILL LEAST IMPEDE THE USE OF EXISTING STRUCTURES. IN GENERAL, MAINTAIN EXISTING FRONT ENTRANCES AS LONG AS PRACTICAL. DO NOT DISRUPT EXISTING INTERIOR SPACES UNTIL WORK IS TO BEGIN IN THESE AREAS. COORDINATE ALL OPERATIONS WITH ASU PHYSICAL PLANT.

SPECIFIC

1. REMOVE EXISTING BUILDING, BUILDING STRUCTURE, FLOOR SLABS, STEPS, PLAZA, PAVING, WALKS, DOCK, & ALL EXISTING MATERIALS BETWEEN THE EXISTING LIBRARY AND THE EXISTING MUSEUM TO PREPARE SITE FOR NEW CONSTRUCTION. SEE MECHANICAL & ELECTRICAL DEMOLITION SHEETS FOR EXTENT OF DEMOLITION TO EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS. SEE DEMOLITION FLOOR PLANS.
2. PORTION OF EXISTING MUSEUM BUILDING TO BE REMOVED - SEE DEMOLITION FLOOR PLANS.
3. EXISTING WALKS TO BE REMOVED AS REQUIRED FOR NEW CONSTRUCTION.
4. EXISTING ASPHALT PAVING TO BE REMOVED AS REQUIRED FOR NEW CONSTRUCTION.
5. EXISTING BRICK SCREEN WALL, EQUIPMENT PAD, CONCRETE SLAB, AND FOOTINGS TO BE REMOVED. SEE MECHANICAL AND ELECTRICAL DEMOLITION PLANS.
6. LOCATION OF CONSTRUCTION FENCING TO BE PROVIDED BY THE CONTRACTOR - SEE SPECIFICATIONS.
7. EXISTING CURBS TO BE REMOVED AS REQUIRED FOR NEW CONSTRUCTION.
8. EXISTING SERVICE DRIVE AND DOCK AREA TO REMAIN. CONTRACTOR IS TO KEEP THIS AREA OPEN AND AVAILABLE FOR USE BY OWNER AS REQUIRED DURING CONSTRUCTION PROCESS. DEMOLITION AND CONSTRUCTION IN THIS AREA TO BE COORDINATED WITH ASU PHYSICAL PLANT.
9. REMOVE ALL EXISTING PLAZA CONCRETE, PAVING, PLANTERS, PLANTER FOOTINGS, AND BENCHES.
10. REMOVE EXISTING CONCRETE BRIDGE AND CONCRETE RAILINGS AT SECOND FLOOR ENTRANCE TO EXISTING MUSEUM. REMOVE CONCRETE RAILING.
11. REMOVE EXISTING CONCRETE STAIR AND FOOTINGS.
12. REMOVE EXISTING CONCRETE RETAINING WALLS. REMOVE EXISTING CONCRETE RAILINGS WHERE OCCUR.
13. REMOVE EXISTING PLAZA CONCRETE BRIDGE, RETAINING WALL, AND CONCRETE RAILING.
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17. REMOVE EXISTING BRICK PAVING, CONCRETE SLABS, AND FOOTINGS AS REQUIRED FOR NEW CONSTRUCTION.
18. REMOVE EXISTING METAL GRILLE WORK AT EXISTING ENTRY PORCH.
19. CONSTRUCT TEMPORARY WALL TO PROTECT EXISTING GLAZING, STONE SILLS, AND FACE OF EXISTING COMMUNICATIONS BUILDING. CONSTRUCT WALL TO HEIGHT JUST ABOVE EXISTING WINDOWS (8'-0" - GROUND TO TOP OF WALL). SEE DETAIL 1-A1.
20. REMOVE 8'-0" WIDE X 8'-0" TALL OPENING IN EXISTING CONCRETE WALL. EXACT LOCATION OF OPENING TO BE AT THE DIRECTION OF THE ARCHITECT. SEE FIRST FLOOR DEMOLITION PLAN.
21. REMOVE EXISTING GLAZING FROM ENDS OF EXISTING CONCRETE ROOF FORM.
22. LOCATION OF EXISTING TRACK; RELOCATE END OF TRACK AS SHOWN. REUSE EXISTING MATERIALS. THIS WORK IS TO BE COMPLETED AT THE BEGINNING OF THE PROJECT.
23. EXISTING WALK TO REMAIN IN PLACE FOR STUDENT USE DURING CONSTRUCTION PROCESS. REMOVE ONLY WHEN READY TO CONSTRUCT PLAZA. SEE NOTE G-12.
24. REMOVE EXISTING CONCRETE RETAINING WALL AND PIPE RAILINGS.
25. EXISTING CONCRETE TUNNEL BELOW GROUND FLOOR IS TO REMAIN AND NOT BE DISTURBED DURING CONSTRUCTION PROCESS. SPECIAL CARE SHOULD BE GIVEN DURING THE CONSTRUCTION OF FOOTINGS AND DURING ALL DEMOLITION WORK. TUNNEL CONTAINS EXTENSIVE COMPUTER CABLES. ANY CONFLICT OF CONSTRUCTION WITH THE TUNNEL IS TO BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
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28. REMOVE EXISTING PLAZA CONCRETE STEPS, HANDRAILINGS, AND ALL EXISTING MATERIALS TO FACE OF EXISTING LIBRARY BUILDING; SEE NOTE 1.
29. REMOVE ALL EXISTING CONCRETE AND MASONRY WALLS, SLABS, DOORS AND FRAMES UNDER EXISTING PLAZA STEPS. ALL ITEMS TO BE REMOVED TO FACE OF EXISTING LIBRARY BUILDING; SEE NOTE 1.
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33. REMOVE EXISTING CONCRETE BLOCK (BRICK) WALLS AND STUD WALLS AS INDICATED. REMOVE ALL DOORS AND FRAMES.
34. MOVABLE PARTITION WALLS (INDICATED BY SINGLE DASHED LINE) ARE TO BE REMOVED BY ASU.
35. REMOVE SUSPENDED ACOUSTICAL CEILING AND CEILING GRID THIS AREA. SEE REFLECTED CEILING PLANS.
36. INSTALL DUSTPROOF/WEATHER TIGHT PARTITIONS AS INDICATED AND REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION WORK THAT WILL EXPOSE ANY EXISTING INTERIOR SPACES TO THE CONSTRUCTION WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE EXISTING SPACES FROM DUST, DEBRIS, AND WEATHER CAUSED BY DEMOLITION AND CONSTRUCTION WORK. PARTITION LOCATIONS SHOWN ARE SUBJECT TO THE CONTRACTOR'S RECOMMENDATIONS AND CHOICE OF CONSTRUCTION SEQUENCE. ALL WORK MUST BE COORDINATED WITH ASU PHYSICAL PLANT. SEE NOTE G12. PARTITIONS ARE TO BE CONSTRUCTED USING 2X4'S AT 2'-0" O.C.; WALL IS TO RECEIVE PLASTIC VAPOR BARRIER UNDER ½" PLYWOOD SHEETS ON THE OUTSIDE FACE AND ½" PLYWOOD SHEETS ON THE INSIDE FACE. INSTALL 30 LB. FELT ON OUTSIDE; INSTALL 3½" FIBERGLASS BATTS BETWEEN STUDS; PARTITION TO BE CAULKED ALL AROUND AND BE DUST AND WEATHER TIGHT. DOORS TO BE AT CONTRACTOR'S DISCRETION AND BE PROVIDED WITH PADLOCK.
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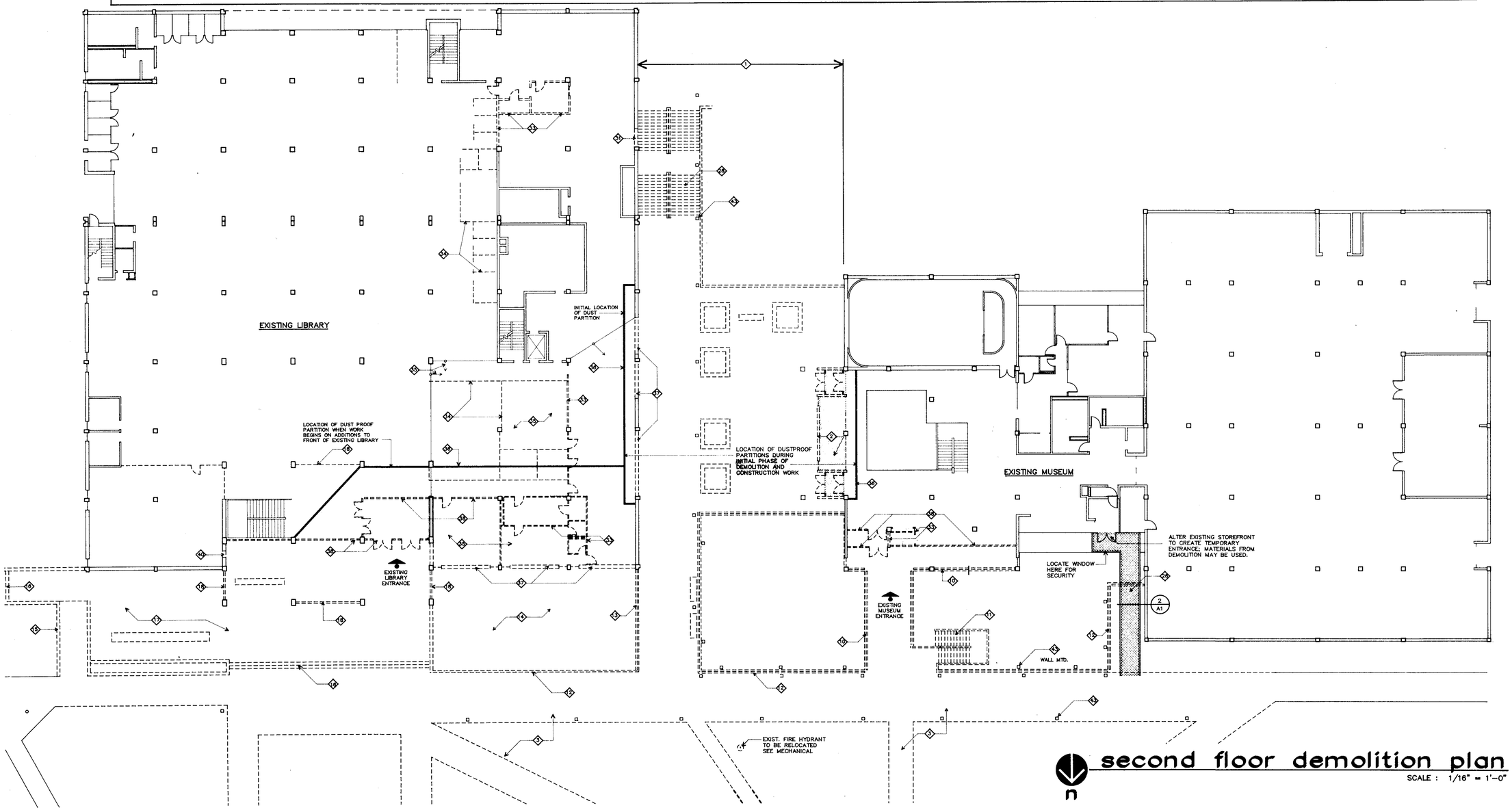

second floor demolition plan

SCALE : 1/16" = 1'-0"

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CIB
ARKANSAS

Brackett Krenrich and Associates, PA

COMM. NO. 11990
A3
DATE: SEPT. 15, 1991

BRUMMO 40-9020 121691

demolition notes

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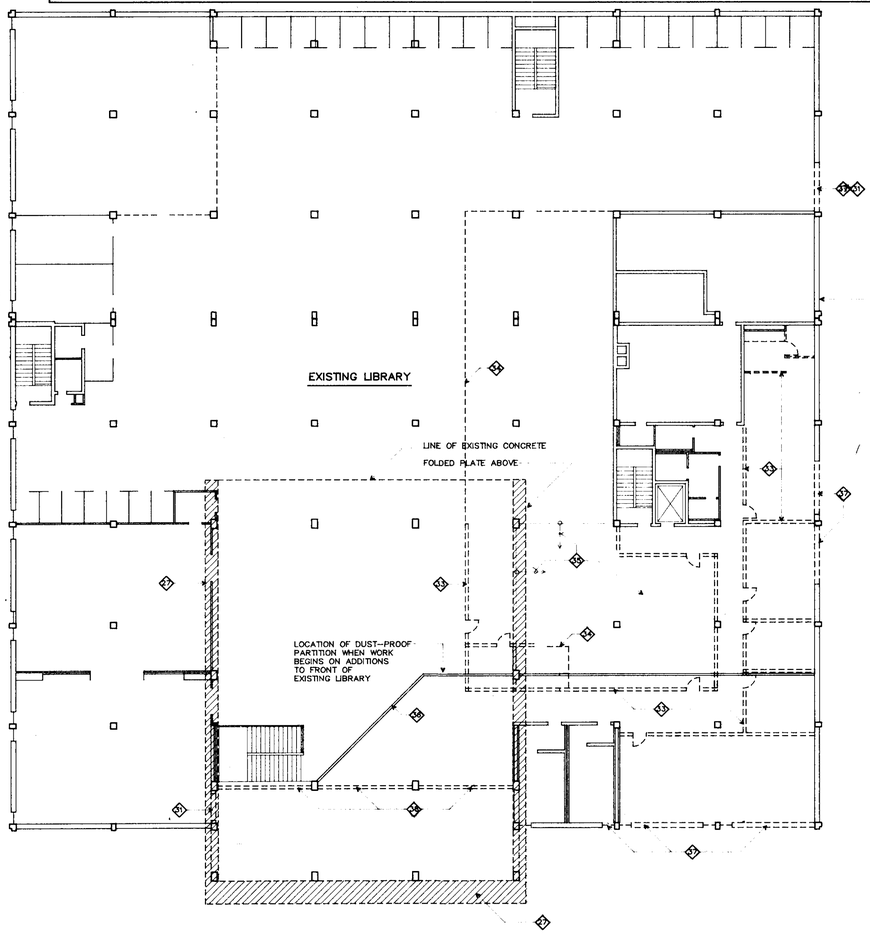

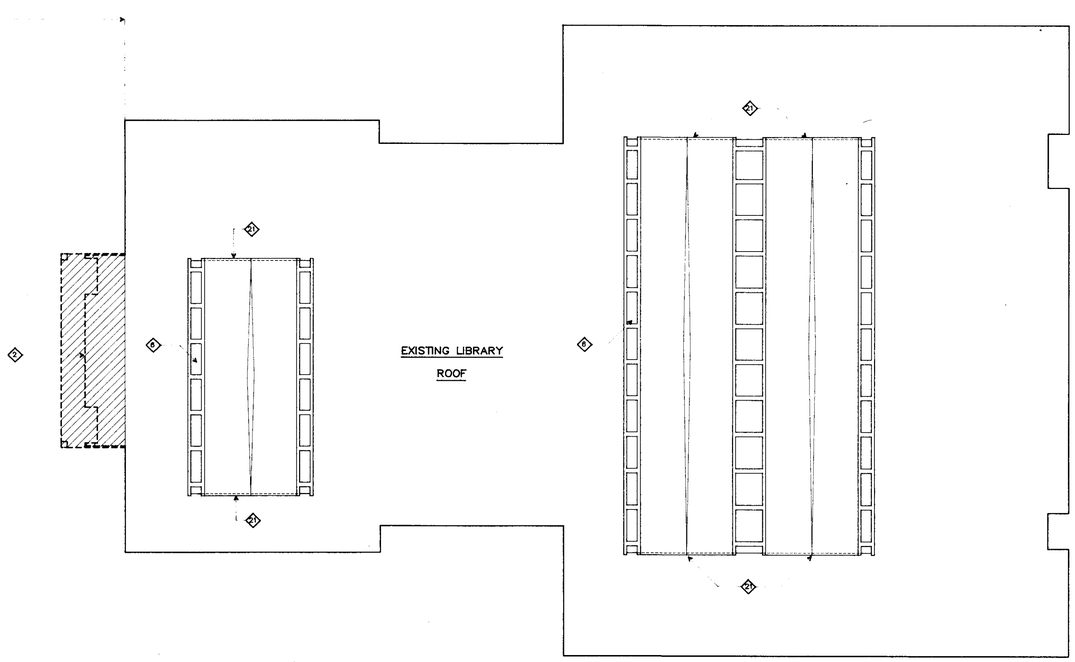

third floor demolition plan

SCALE : 1/16" = 1'-0"

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Architects Engineers Planners

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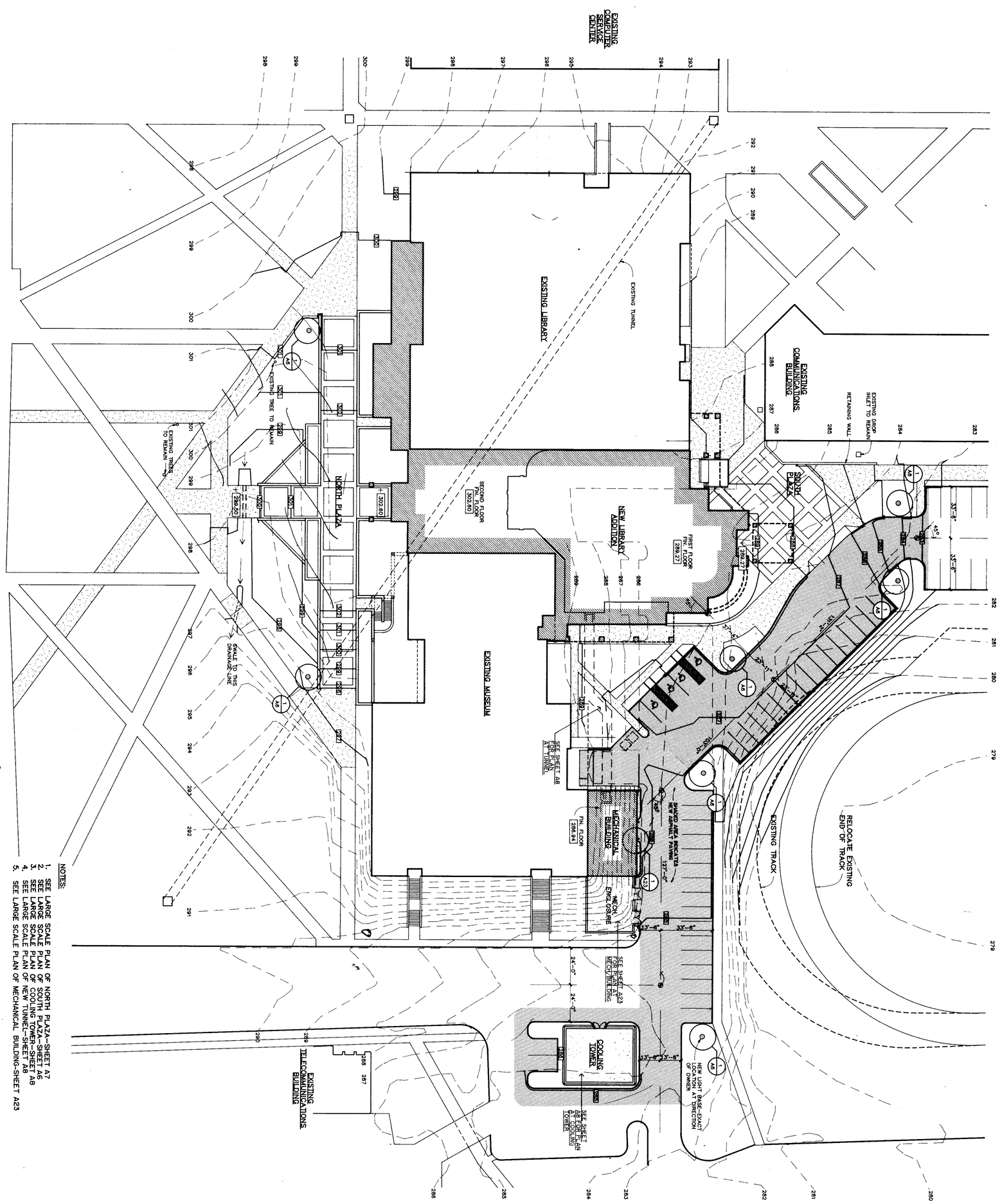
COMM. NO. 11990
A4
DATE: SEPT. 15, 1991

BRUNING 43-9020 121891

BRUNING, 40-5020 321891



site plan

SC. 1" -0"

NOTES:

1. SEE LARGE SCALE PLAN OF NORTH PLAZA-SHEET A7
2. SEE LARGE SCALE PLAN OF SOUTH PLAZA-SHEET A8
3. SEE SECTION OF TUNNEL-SHEET A8
4. SEE LARGE SCALE PLAN OF NEW TUNNEL-SHEET A8
5. SEE LARGE SCALE PLAN OF MECHANICAL BUILDING-SHEET A23

COMM. NO. 11990

A5

DATE: SEPT. 15, 1991

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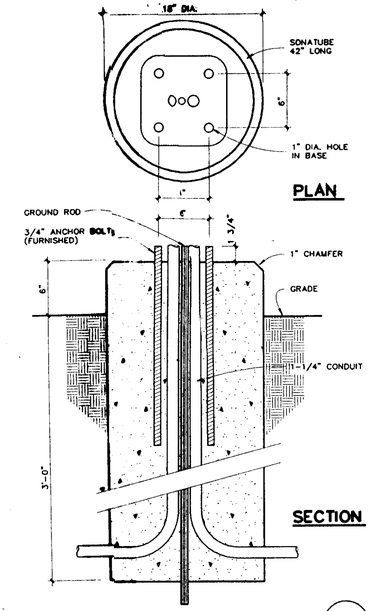
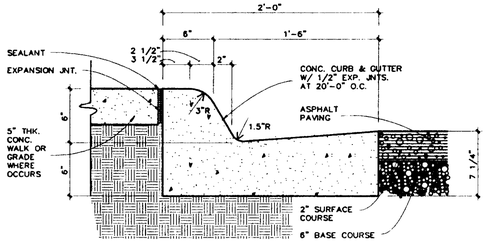
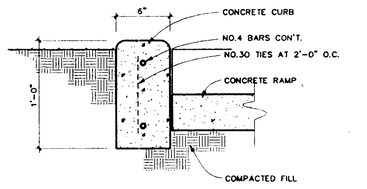


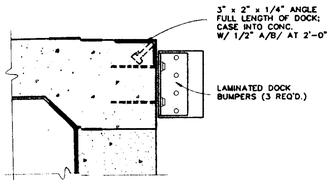
light base detail (1)
SCALE : 1 1/2" = 1'-0"



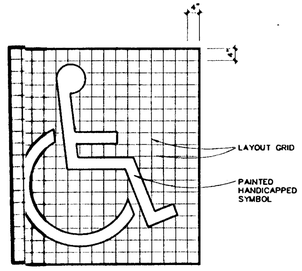
detail at curb (5)
SCALE : 1 1/2" = 1'-0"



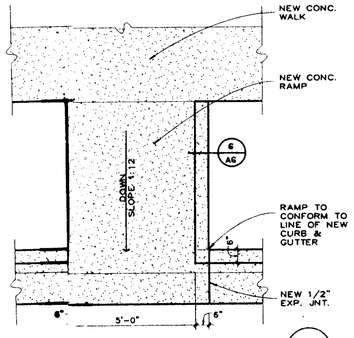
ramp detail (6)
SCALE : 1 1/2" = 1'-0"



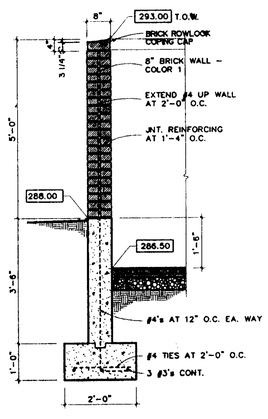
dock bumper detail (2)
SCALE : 1 1/2" = 1'-0"



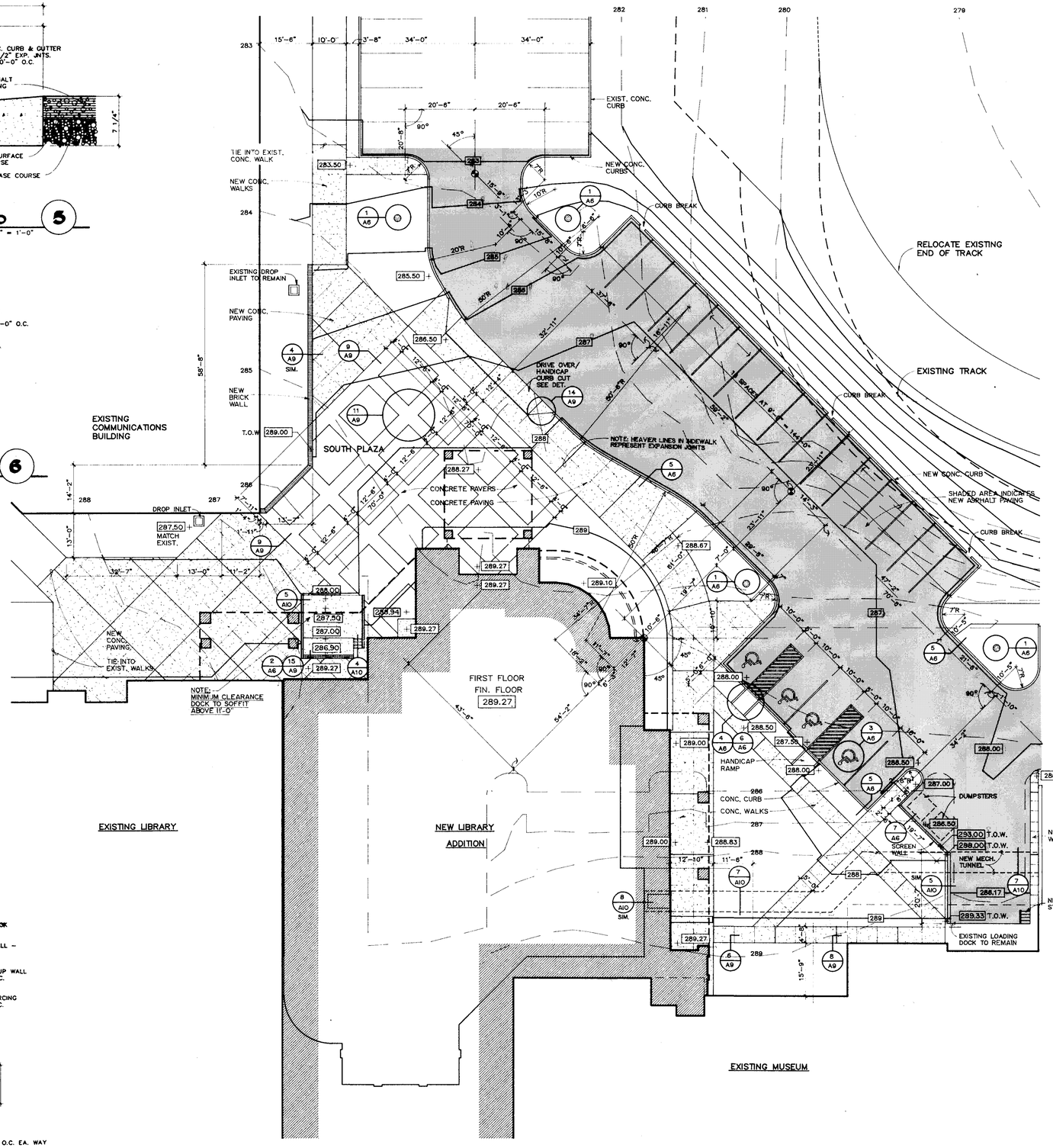
hadicap symbol (3)
SCALE : 1/2" = 1'-0"



wheechair ramp (4)
SCALE : 3/8" = 1'-0"



det. at dumpster screen (7)
SCALE : 1/2" = 1'-0"



plan at south plaza
SCALE : 1/16" = 1'-0"

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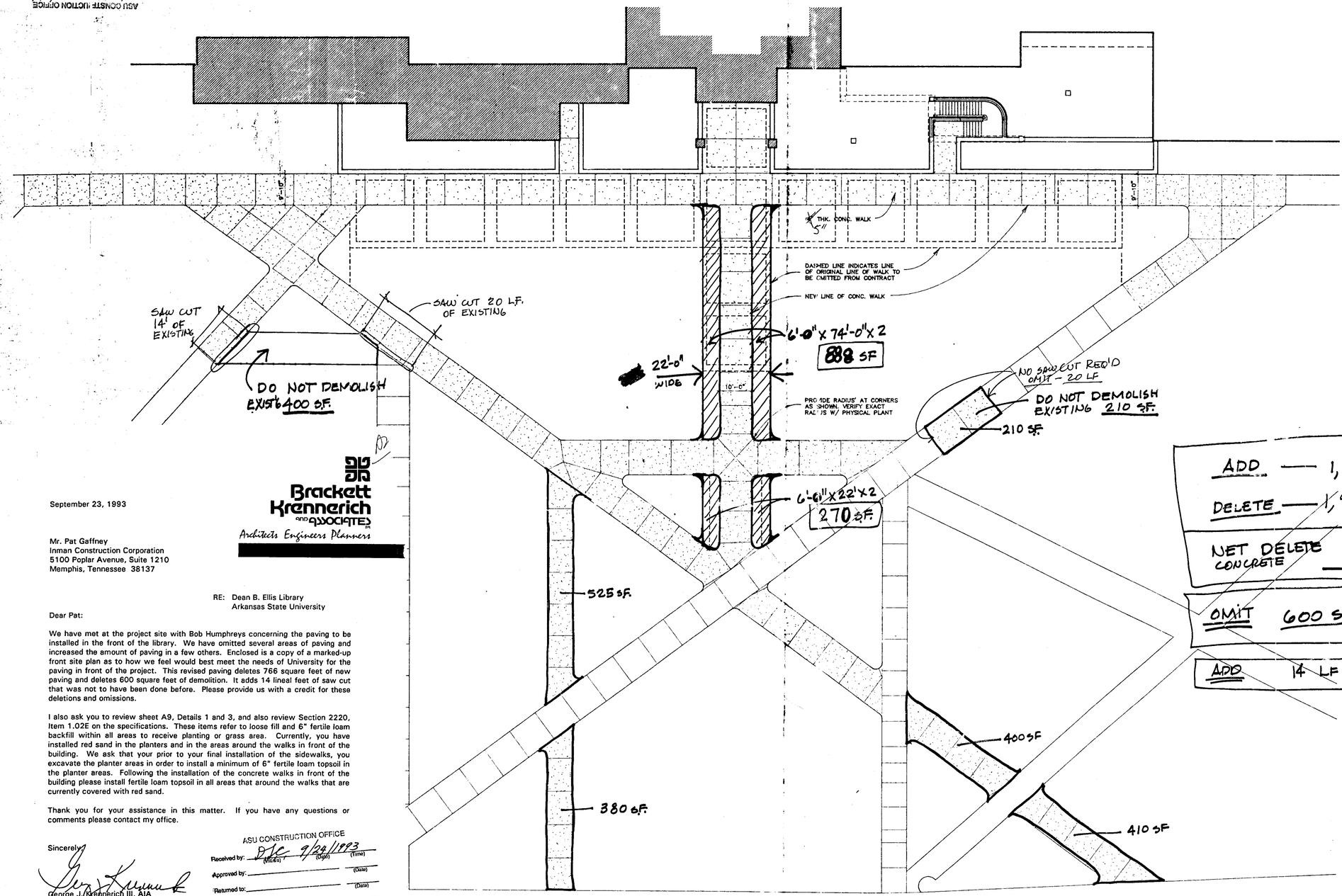
COMM. NO. 11990
A6
DATE: SEPT. 15, 1991

ASU CONSTRUCTION OFFICE
Received by: DJC 9/23/93



ADD — 1,158 SF

DELETE — 1,925 SF

NET DELETE CONCRETE 767 S.F.

OMIT 600 SF OF DEMOLITION

ADD 14 LF SAW CUT

Brackett Krennerich and Associates
Architects Engineers Planners

September 23, 1993

Mr. Pat Gaffney
Inman Construction Corporation
5100 Poplar Avenue, Suite 1210
Memphis, Tennessee 38137

RE: Dean B. Ellis Library
Arkansas State University

Dear Pat:

We have met at the project site with Bob Humphreys concerning the paving to be installed in the front of the library. We have omitted several areas of paving and increased the amount of paving in a few others. Enclosed is a copy of a marked-up front site plan as to how we feel would best meet the needs of University for the paving in front of the project. This revised paving deletes 766 square feet of new paving and deletes 600 square feet of demolition. It adds 14 lineal feet of saw cut that was not to have been done before. Please provide us with a credit for these deletions and omissions.

I also ask you to review sheet A9, Details 1 and 3, and also review Section 2220, Item 1.02E on the specifications. These items refer to loose fill and 6" fertile loam backfill within all areas to receive planting or grass area. Currently, you have installed red sand in the planters and in the areas around the walks in front of the building. We ask that your prior to your final installation of the sidewalks, you excavate the planter areas in order to install a minimum of 6" fertile loam topsoil in the planter areas. Following the installation of the concrete walks in front of the building please install fertile loam topsoil in all areas that around the walks that are currently covered with red sand.

Thank you for your assistance in this matter. If you have any questions or comments please contact my office.

Sincerely,

George J. Krennerich III, AIA

GJK/tkt

ASU CONSTRUCTION OFFICE
Received by: DJC 9/24/1993 (Initials) (Date) (Time)
Approved by: (Date)
Returned to: (Date)
Forwarded To: (Date)

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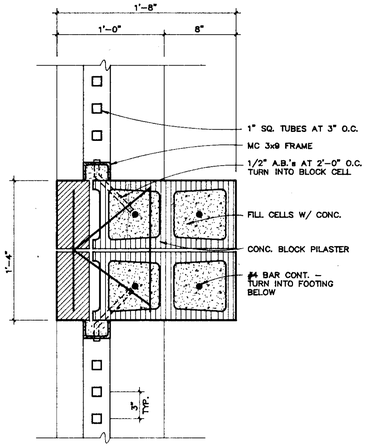
17 plan at north plaza
SCALE : 1/16" = 1'-0"

COMM. NO. 11990

A7

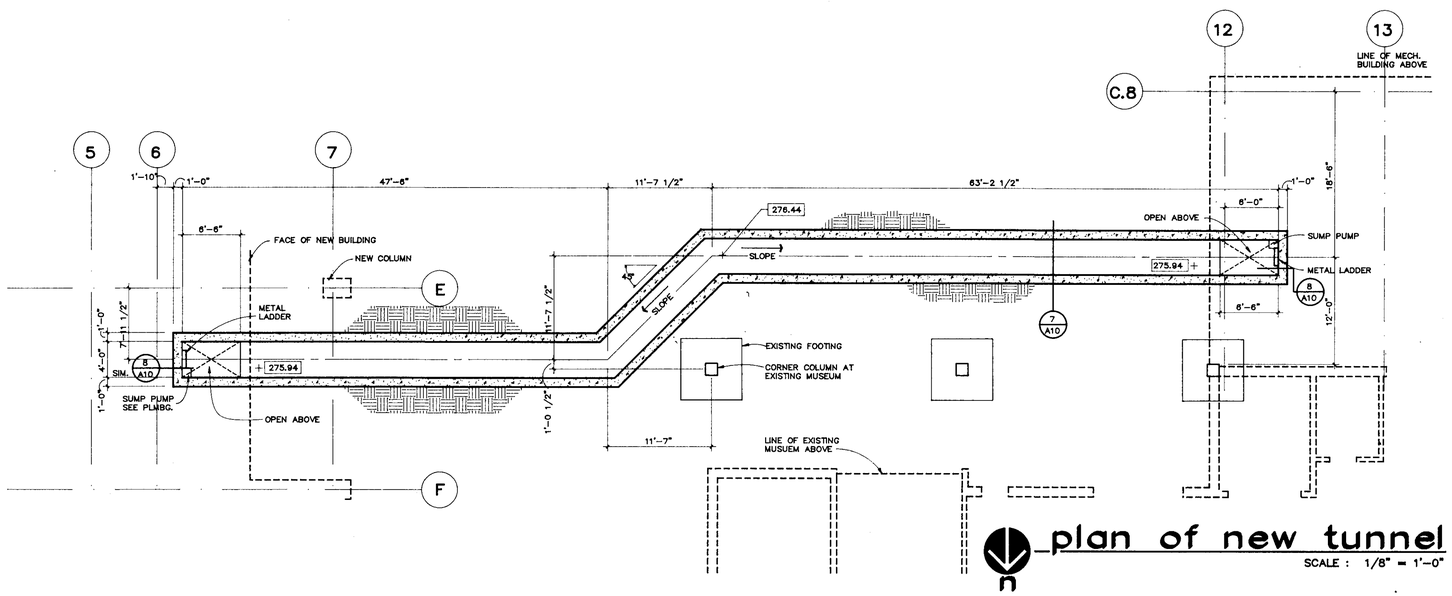
DATE: SEPT. 15, 1991
REV. JULY 6, 1993

BRUNING 49-9500 337891



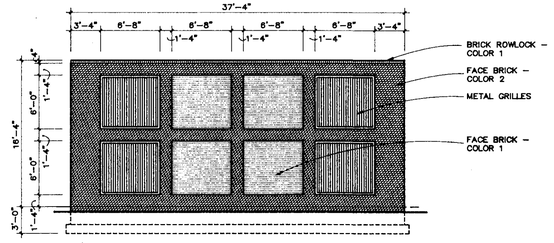
detail at pilaster (2)

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



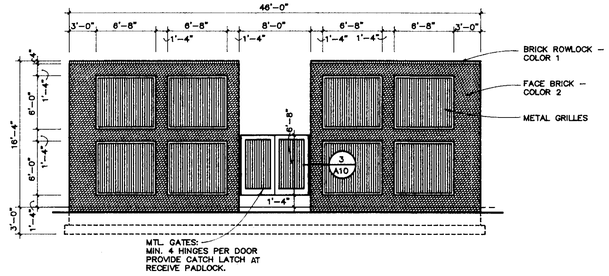
plan of new tunnel

SCALE : 1/8" = 1'-0"



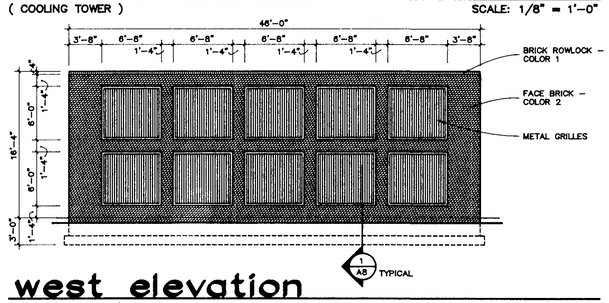
north & south elevation

(COOLING TOWER) SCALE: 1/8" = 1'-0"



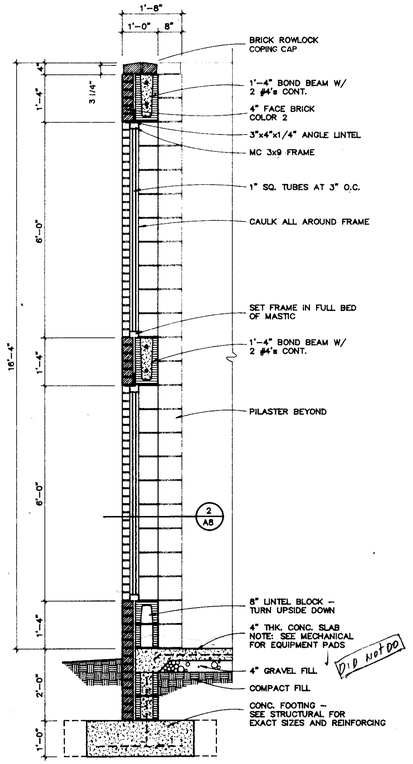
east elevation

(COOLING TOWER) SCALE: 1/8" = 1'-0"



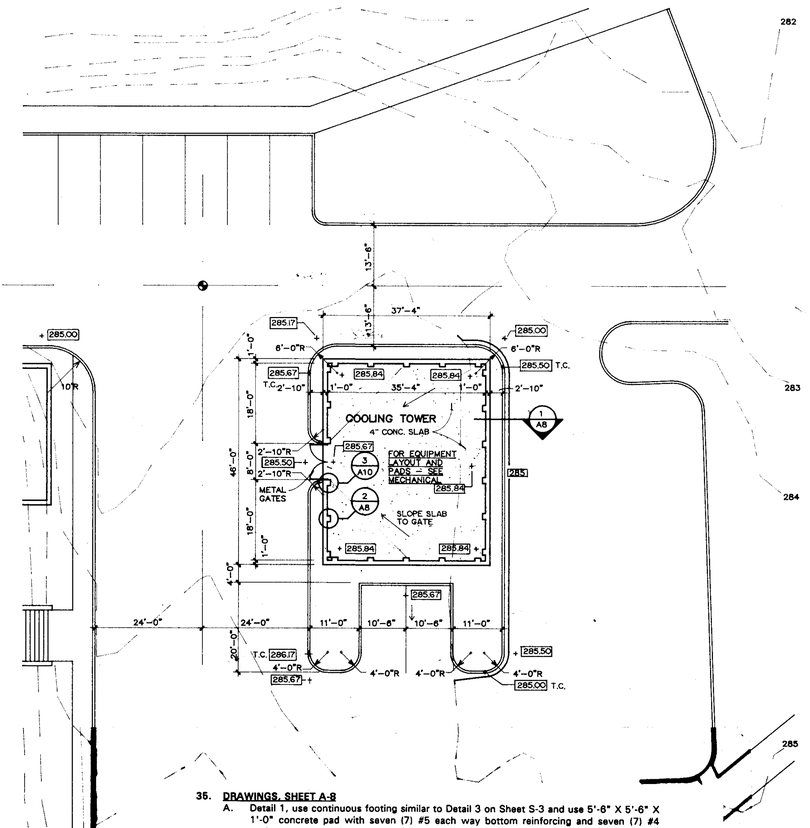
west elevation

(COOLING TOWER) SCALE: 1/8" = 1'-0"



section at cooling tower (1)

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



35. DRAWINGS, SHEET A-8

A. Detail 1, use continuous footing similar to Detail 3 on Sheet S-3 and use 5'-6" X 5'-6" X 1'-0" concrete pad with seven (7) #5 each way bottom reinforcing and seven (7) #4 each way top reinforcing with four (4) #7 dowels located at each pilaster block cell (Dowels to extend 6'-0" above top of footing).

B. Detail 2, replace "#4 bar cont." with #7 bars lap spliced above slab. Pilaster to have #3 ties at 8" on center from top of footing up to bottom of top metal grille and #3 ties at 16" on center for the remainder of pilaster.

plan at cooling tower

SCALE : 1/8" = 1'-0"

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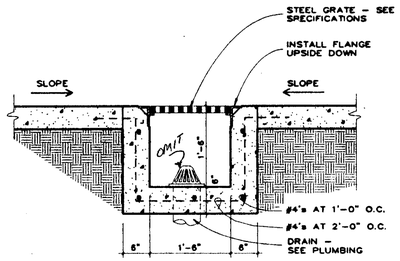
COMM. NO. 11990

A8

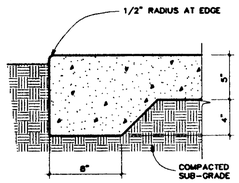
DATE: SEPT. 15, 1991

BRUNING 40-9020 331891



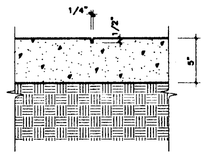
area drain (12)

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



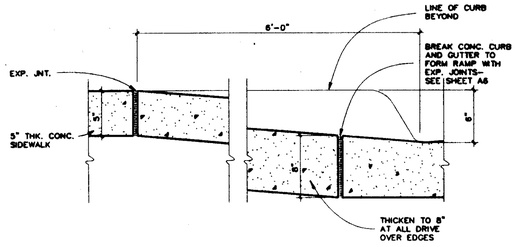
edge detail (7)

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



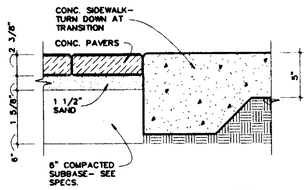
scored joint (6)

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



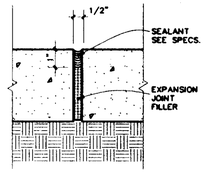
section at handicap ramp (13)

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



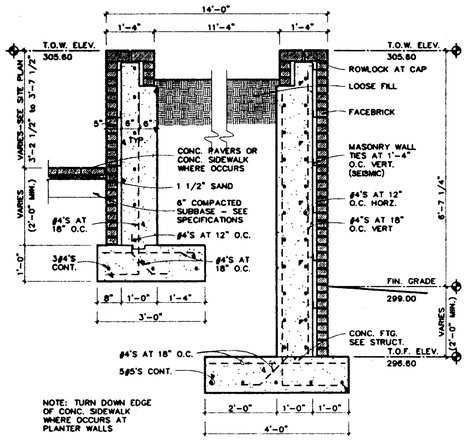
edge detail (9)

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



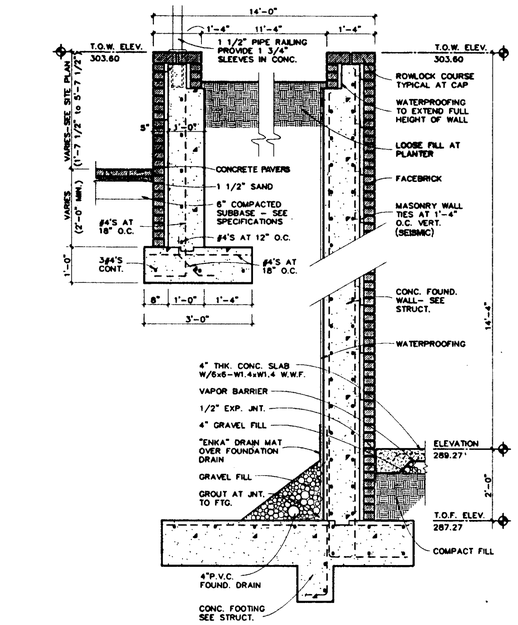
exp. joint (8)

SCALE : 3" = 1'-0"



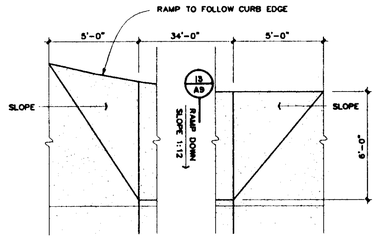
planter wall (3)

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



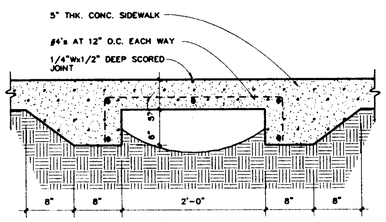
retaining wall (1)

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



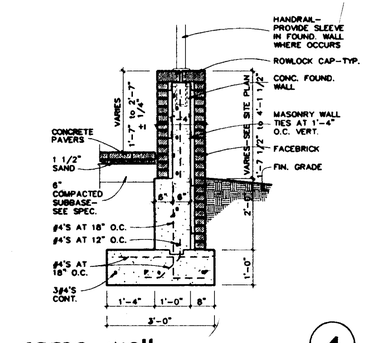
handicap curb cut (14)

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



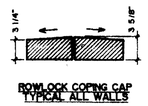
sidewalk drain (10)

SCALE : 1" = 1'-0"

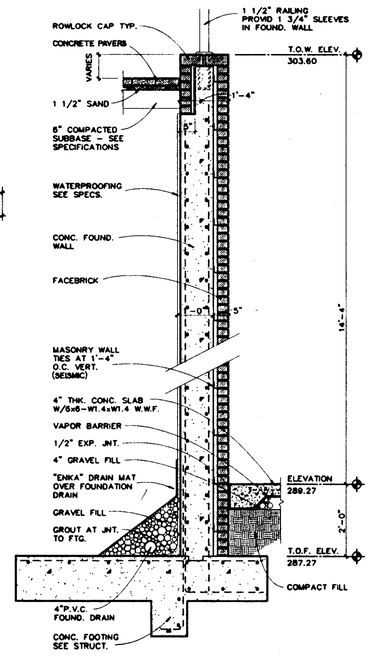


ramp wall (4)

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

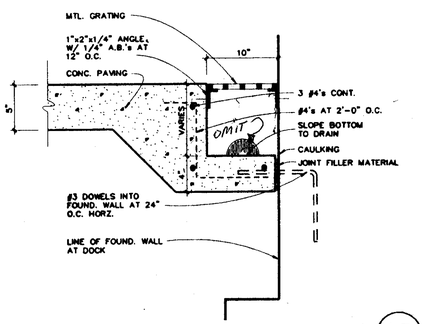


ROWLOCK COPING CAP TYPICAL ALL WALLS



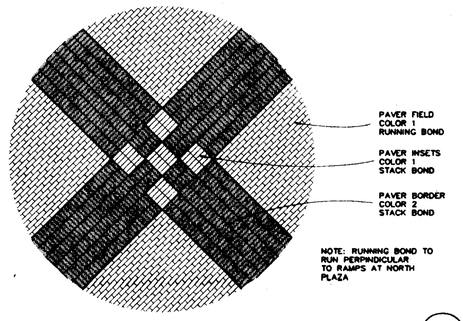
retaining wall (2)

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



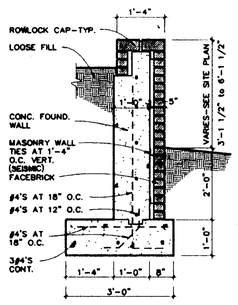
detail at dock trench (15)

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



typ. conc. paver pattern (11)

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



typical planter wall (5)

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

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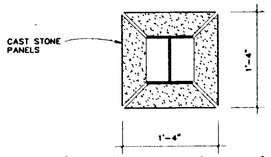
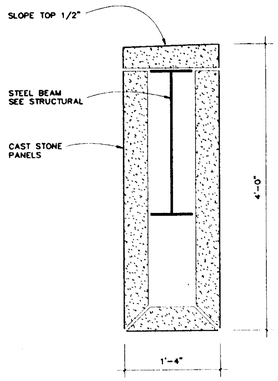


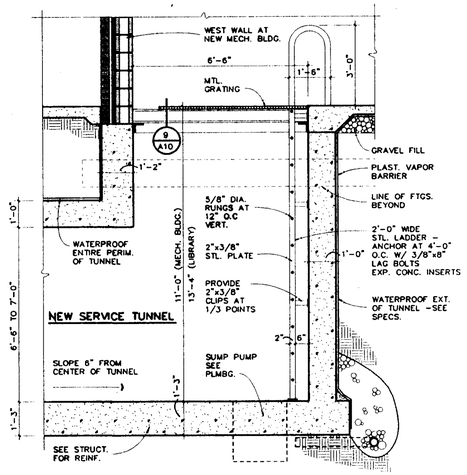
detail at courtyard 11

SCALE : 1" = 1'-0"



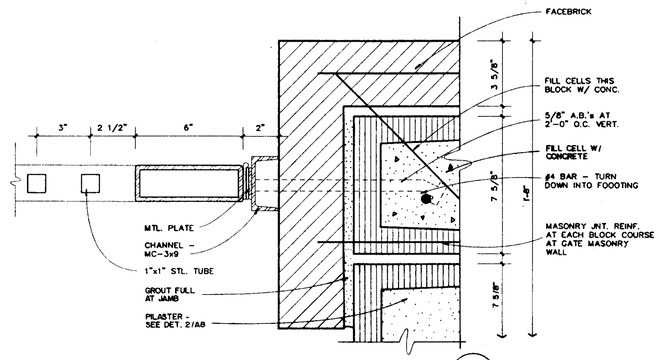
detail at courtyard 10

SCALE : 1" = 1'-0"



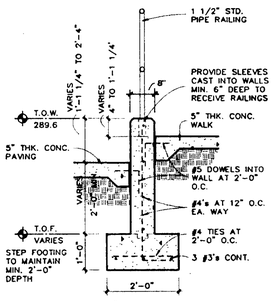
sect. at new tunnel 8

SCALE : 3/8" = 1'-0"



jamb at gate 3

SCALE : 3" = 1'-0"



retaining wall (loading dock) 5

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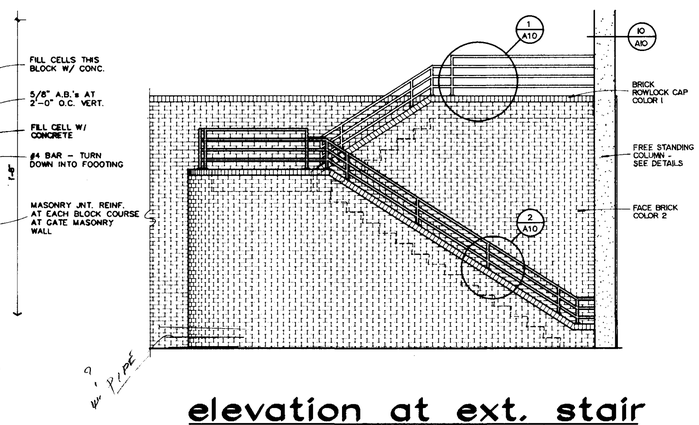

elevation at ext. stair

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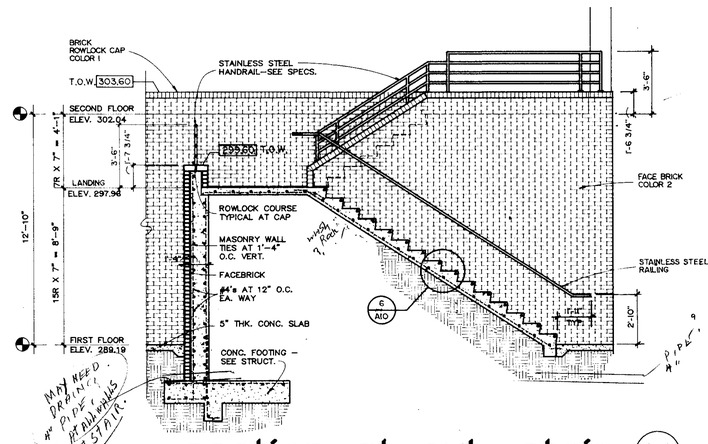
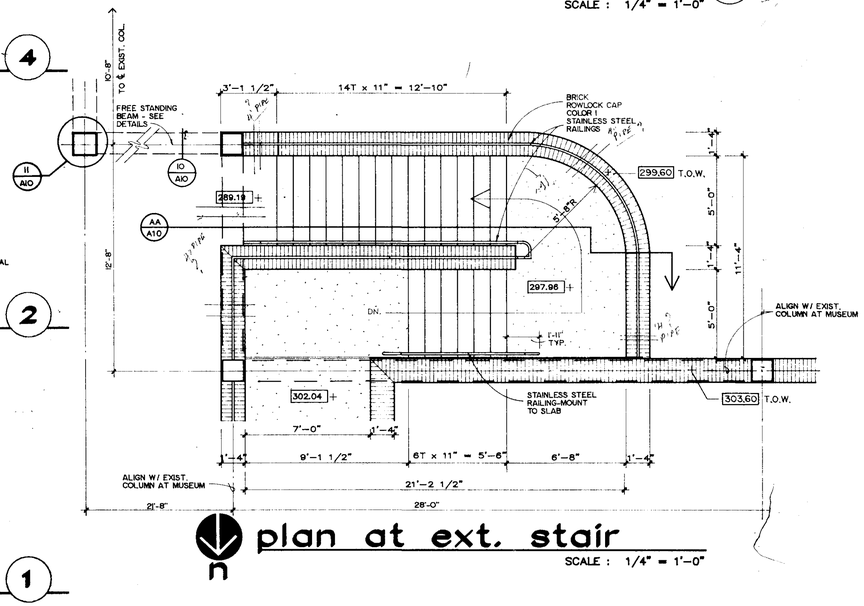


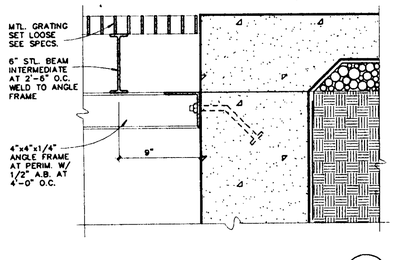
section at ext. stair AA

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



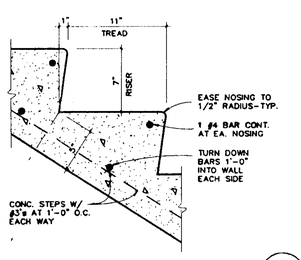
plan at ext. stair

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



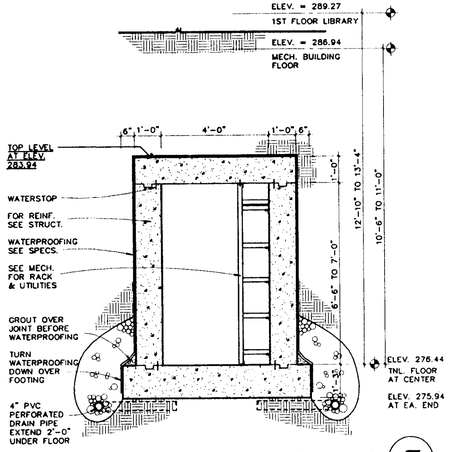
detail at mtl. grating 9

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



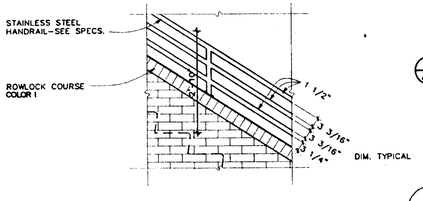
tread & riser detail 6

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



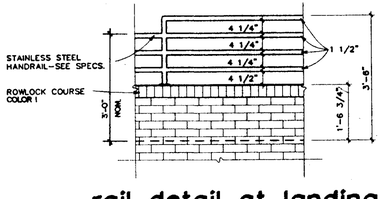
sect. at new tunnel 7

SCALE : 3/8" = 1'-0"



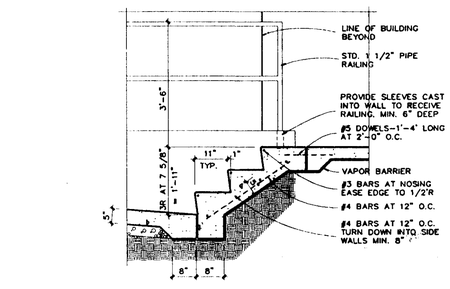
rail detail at stair 2

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



rail detail at landing 1

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



stair detail (loading dock) 4

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

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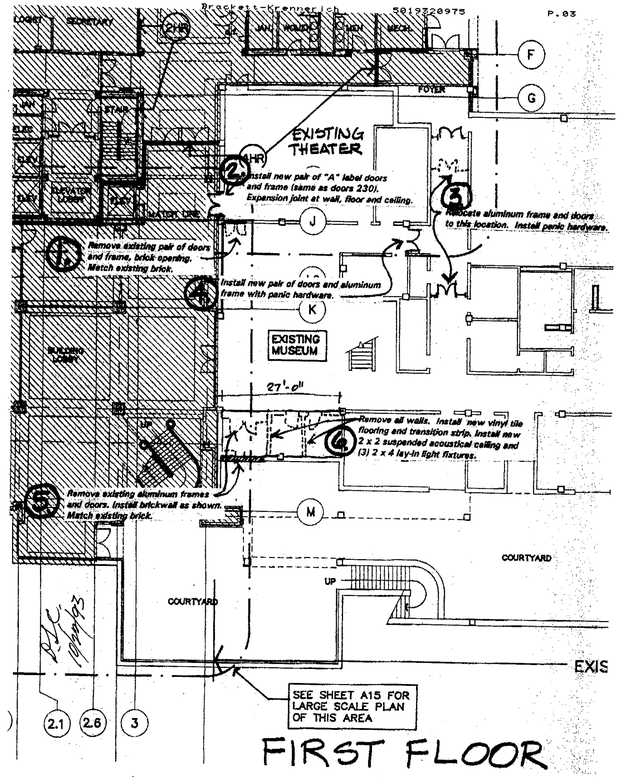
Architects Engineers Planners

COMM. NO. 11990

A10

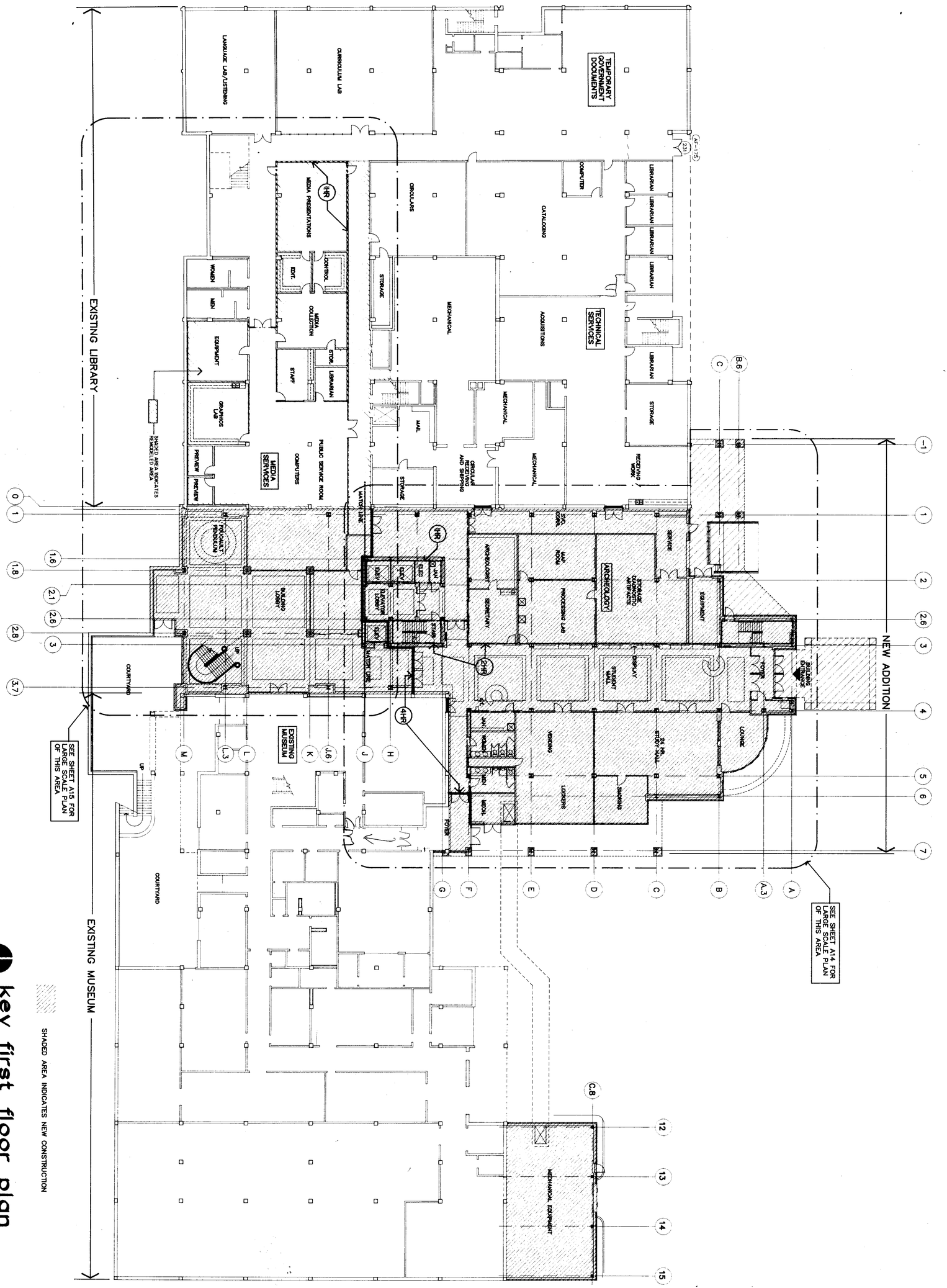
DATE: SEPT. 15, 1991

BRUNING 40-0020 321991



EXISTING THEATER
Install new pair of "A" label doors and frame (same as doors 230). Expansion joint at wall, floor and ceiling.
Relocate aluminum frame and doors to this location. Install panic hardware.
Remove existing pair of doors and frame, brick opening. Match existing brick.
Install new pair of doors and aluminum frame with panic hardware.
EXISTING MUSEUM
27'-0"
Remove all walls. Install new vinyl tile flooring and transition strip. Install new 2 x 2 suspended acoustical ceiling and (3) 2 x 4 lay-in light fixtures.
Remove existing aluminum frames and doors. Install brickwall as shown. Match existing brick.
COURTYARD
UP
SEE SHEET A15 FOR LARGE SCALE PLAN OF THIS AREA
FIRST FLOOR

BRUNING 40-5020 331691



key first floor plan

SCALE : 1/16" = 1'-0"

SHADED AREA INDICATES NEW CONSTRUCTION

A11

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DATE: SEPT. 15, 1991

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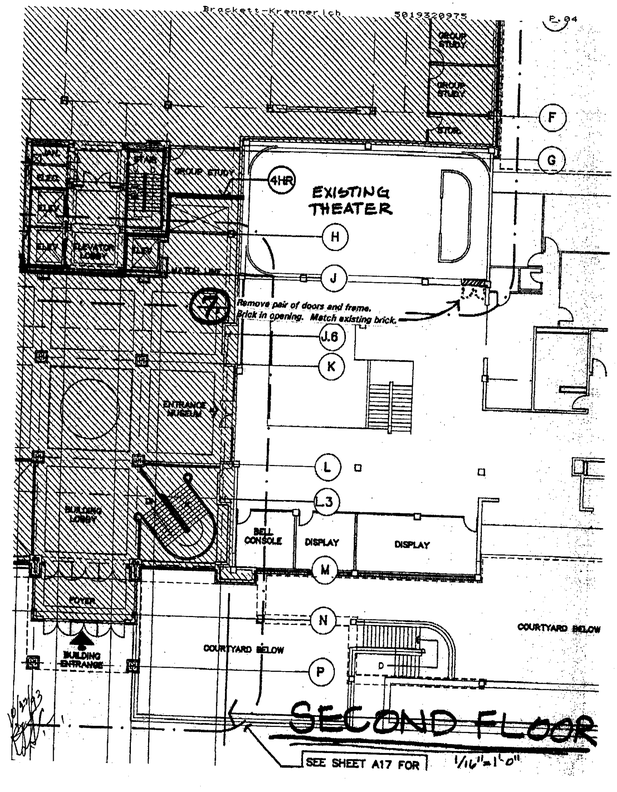
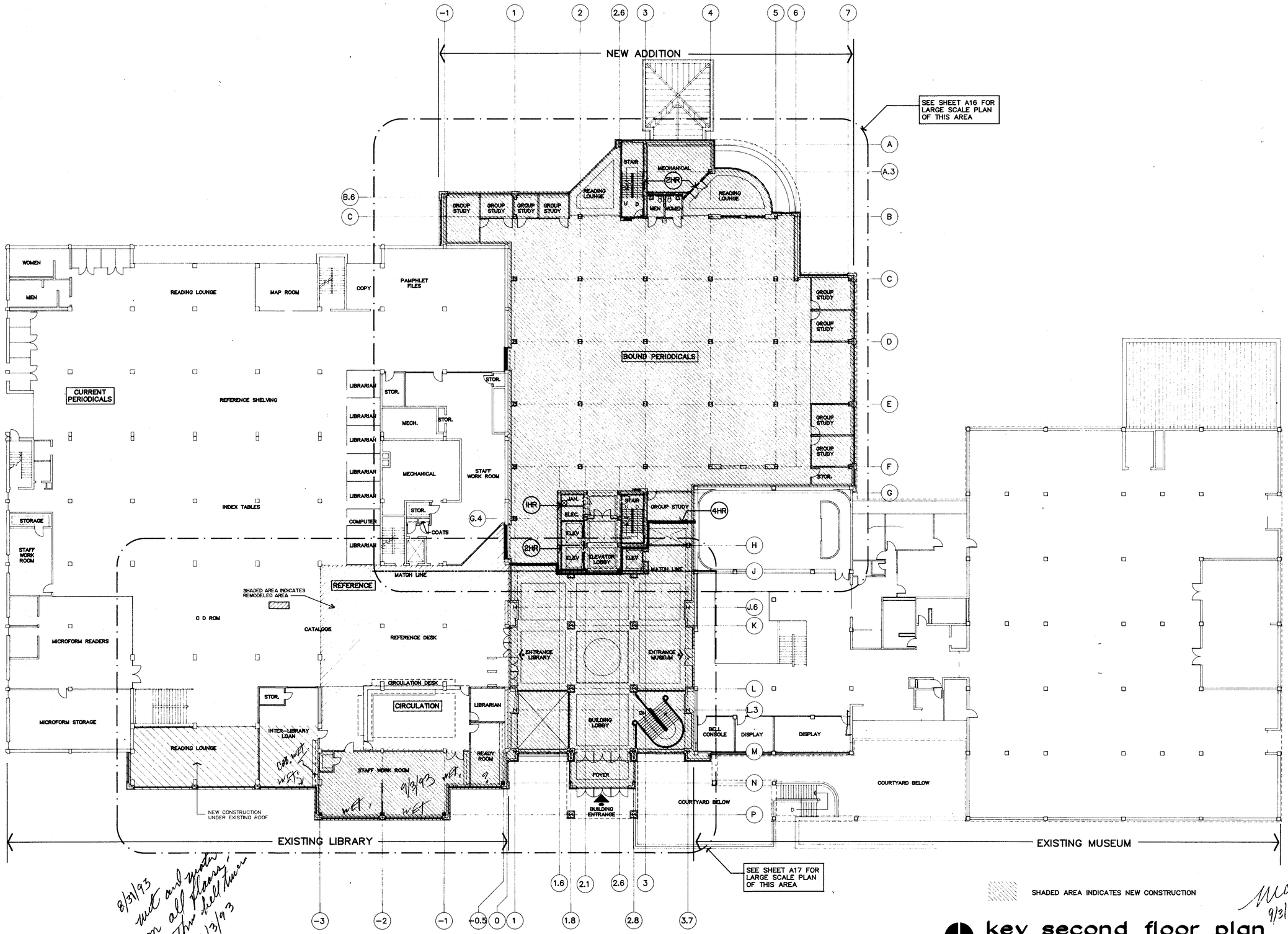

Beckett-Krenmerich
GROUP STUDY
GROUP STUDY
STOR.
F
G
4HR
EXISTING THEATER
H
J
Remove pair of doors and frame. Brick in opening. Match existing brick.
J.6
K
ENTRANCE MUSEUM
L
J.3
BELL CONSOLE
DISPLAY
DISPLAY
M
N
COURTYARD BELOW
BUILDING ENTRANCE
COURTYARD BELOW
P
SECOND FLOOR
SEE SHEET A17 FOR
1/16"=1'0"



8/31/93 wet and water on all floors; 1 thru hall tuner again 9/3/93

9/3/93 wet

key second floor plan

SCALE : 1/16" = 1'-0"

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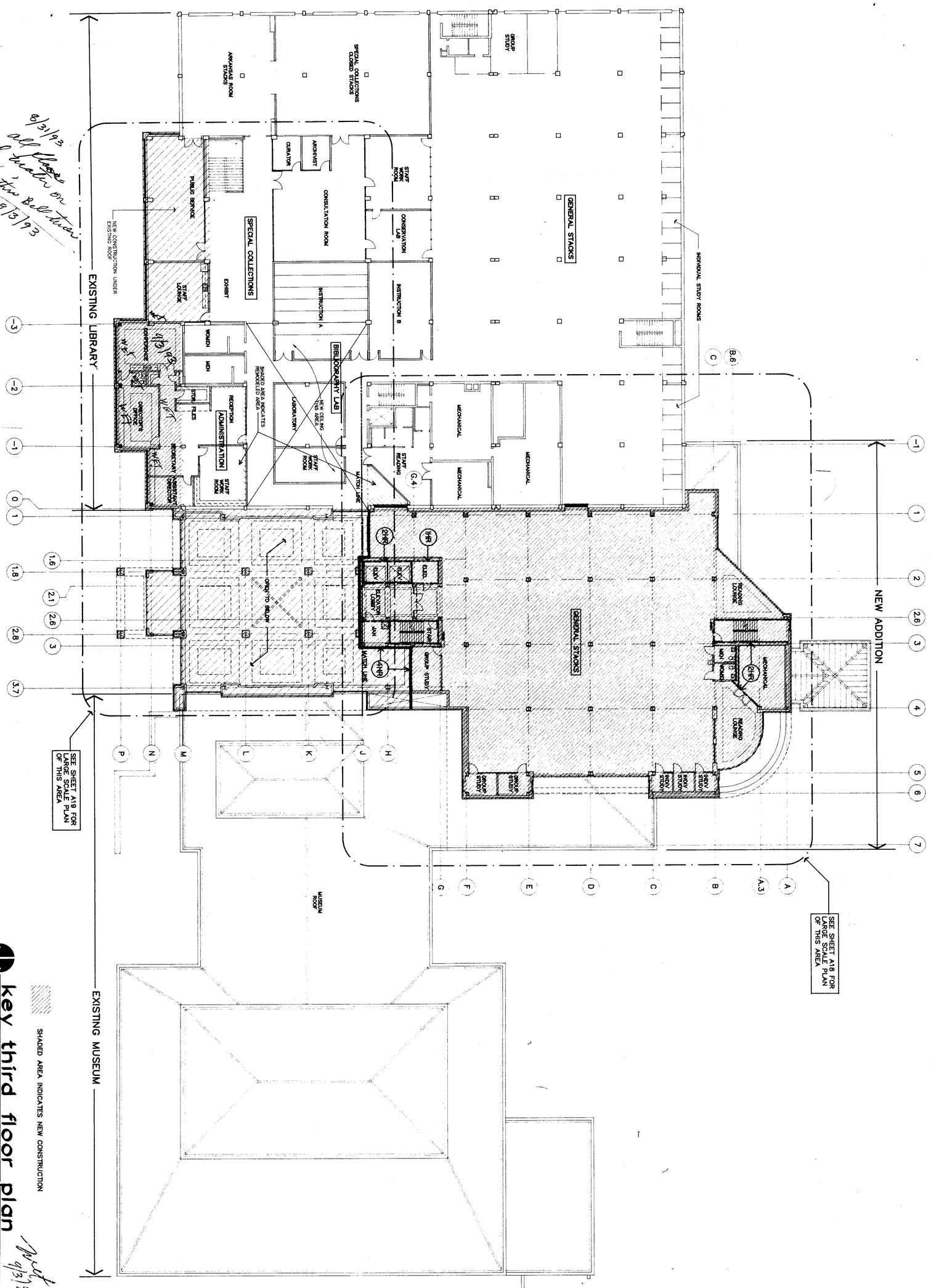
COMM. NO. 11990

A12

DATE: SEPT. 15, 1991

BRUMING. 40-5020 321991



key third floor plan

SHADED AREA INDICATES NEW CONSTRUCTION

SCALE: 1/16" = 1'-0"

8/31/93 all floors but Stairs 1 thru 8 all Elevator on 9/15/93

4/13/93

COMM. NO. 11990

A13

DATE: SEPT. 15, 1991

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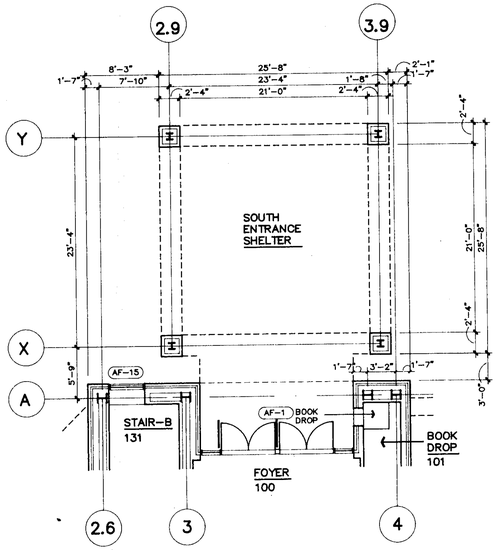
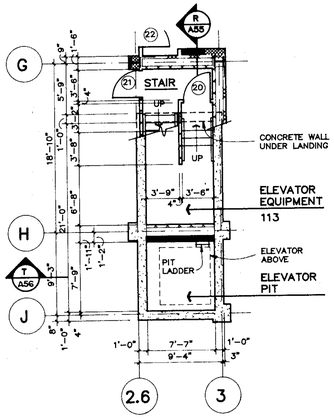
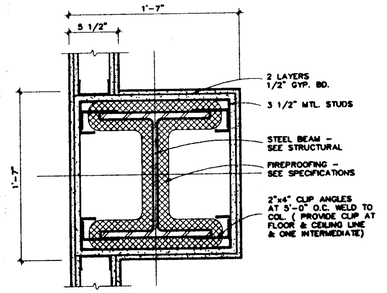


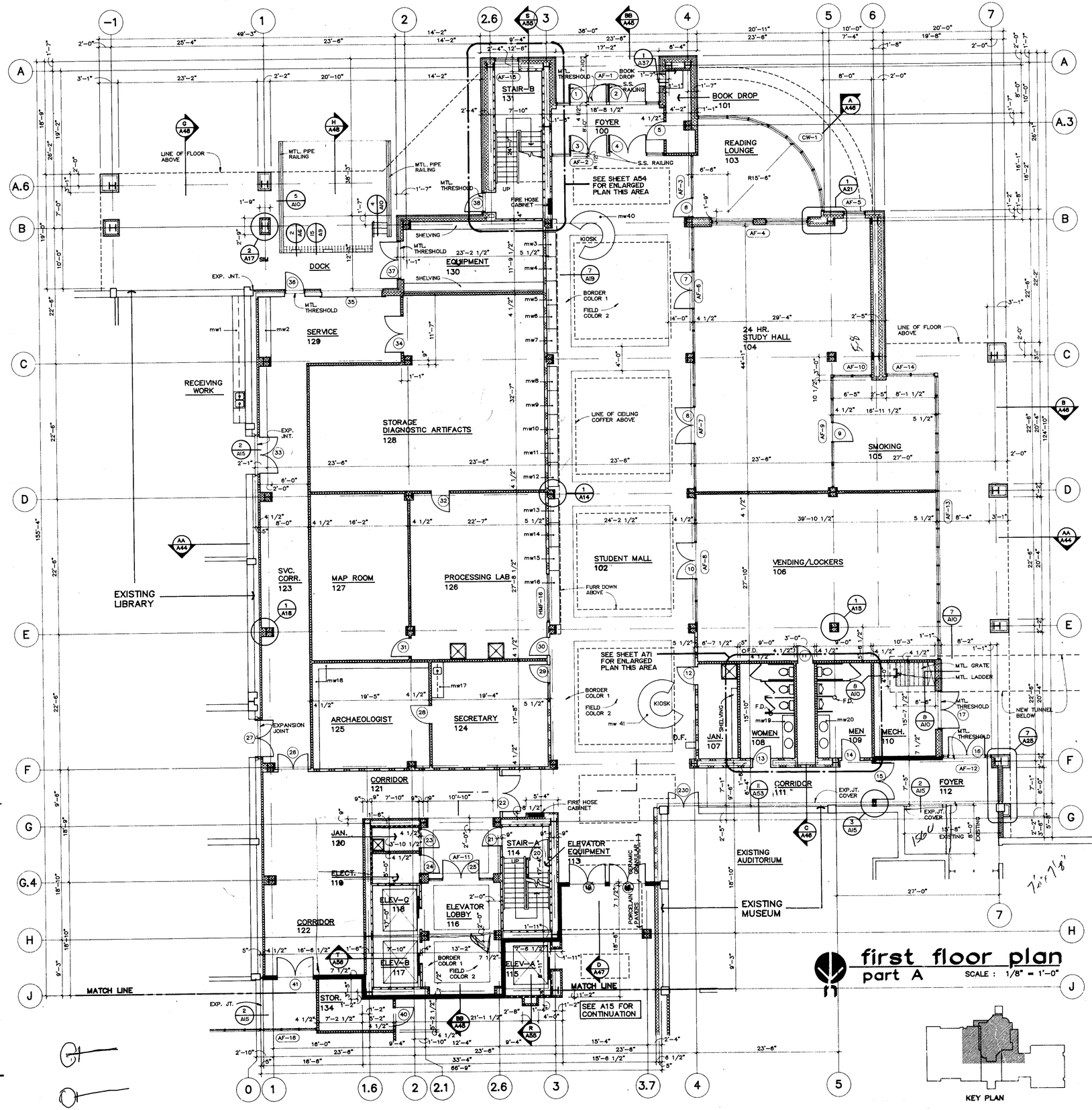
south entrance shelter plan
SCALE : 1/8" = 1'-0"



lower elevator equipment plan
SCALE : 1/8" = 1'-0"



int. column at student mall (1)
(2 HR. WALL)
SCALE : 1 1/2" = 1'-0"



first floor plan
part A
SCALE : 1/8" = 1'-0"

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COMM. NO. 11990
A14
DATE: SEPT. 15, 1991

Brackett Krennerich and Associates
Architects Engineers Planners

December 8, 1992

Mr. Pat Gaffney
Inman Construction Corporation
5100 Poplar Avenue, Suite 1210
Memphis, Tennessee 38137

RE: Additions and Alterations to
Dean B. Ellis Library
Arkansas State University

Dear Pat:

In reference to your letter of November 12, 1992, concerning the corridor wall at Corridor 135, where it is to be a 1 R wall extending up to the concrete deck above, enclosed is a copy of the drawing that we prepared in reference to this area and in discussion with Kenny of Hardin Acoustical. We have agreed to omit the wall between the Librarian 143 and Corridor 135 and, instead, install wall up to the deck between Librarian 143 and Storage 144 and to extend that wall on down between Staff 142 and Media Collections 145. The wall was to extend on down the corridor above aluminum frame 16 and is now only to extend in areas marked in red.

Should you have any other questions concerning this matter, please contact my office.

Sincerely,

George J. Krennerich, III

GJK/jla

Enclosure

cc: Terry Carty, Construction Coordinator
Arkansas State University

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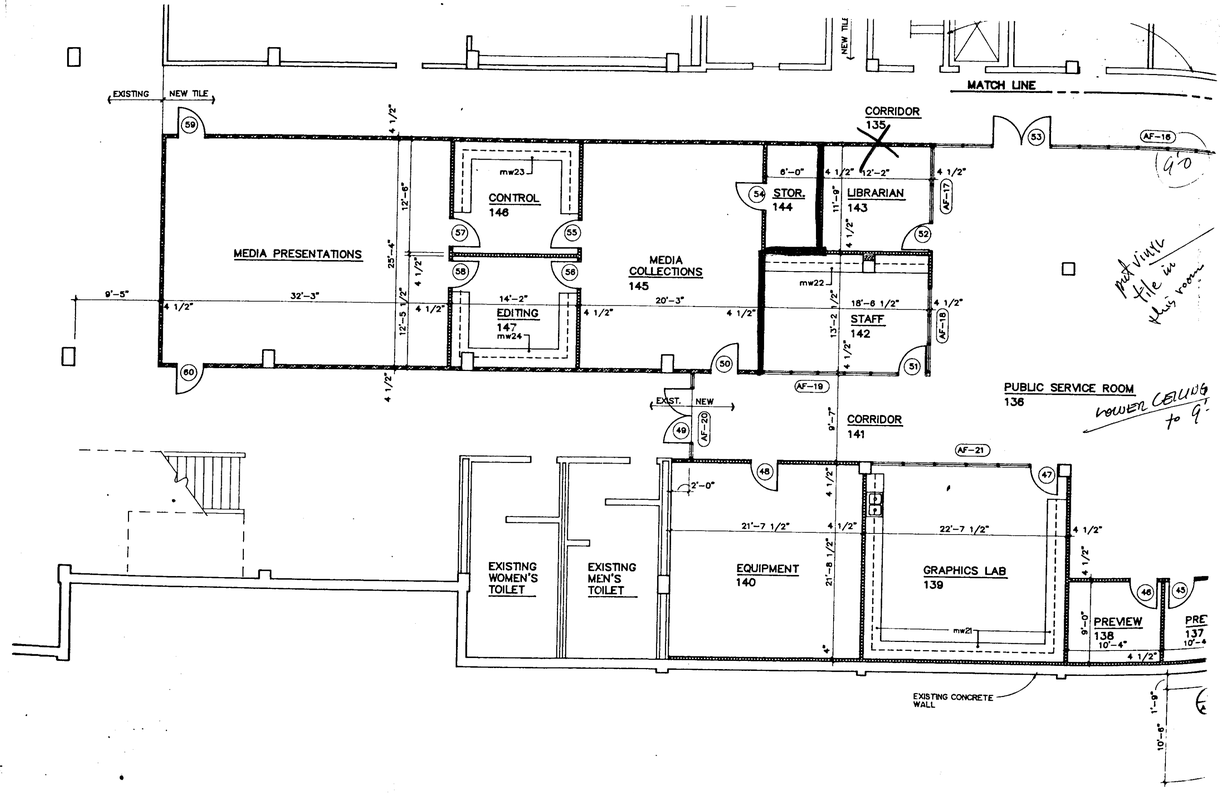
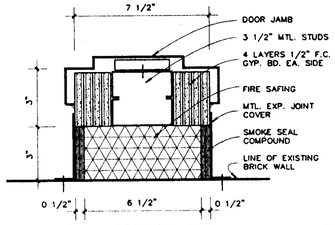
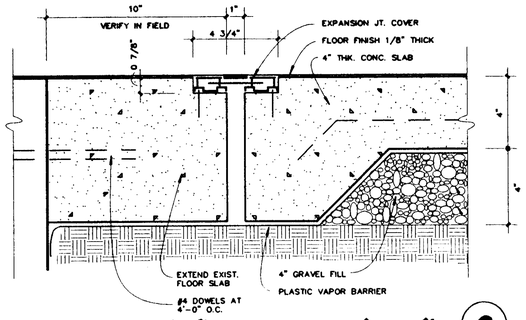




SIM. UL DESIG. NO. J900F

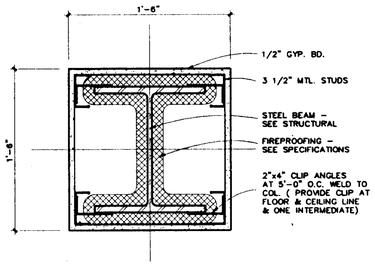
detail at expansion joint (3)

(4 HOUR WALL) SCALE : 3" = 1'-0"



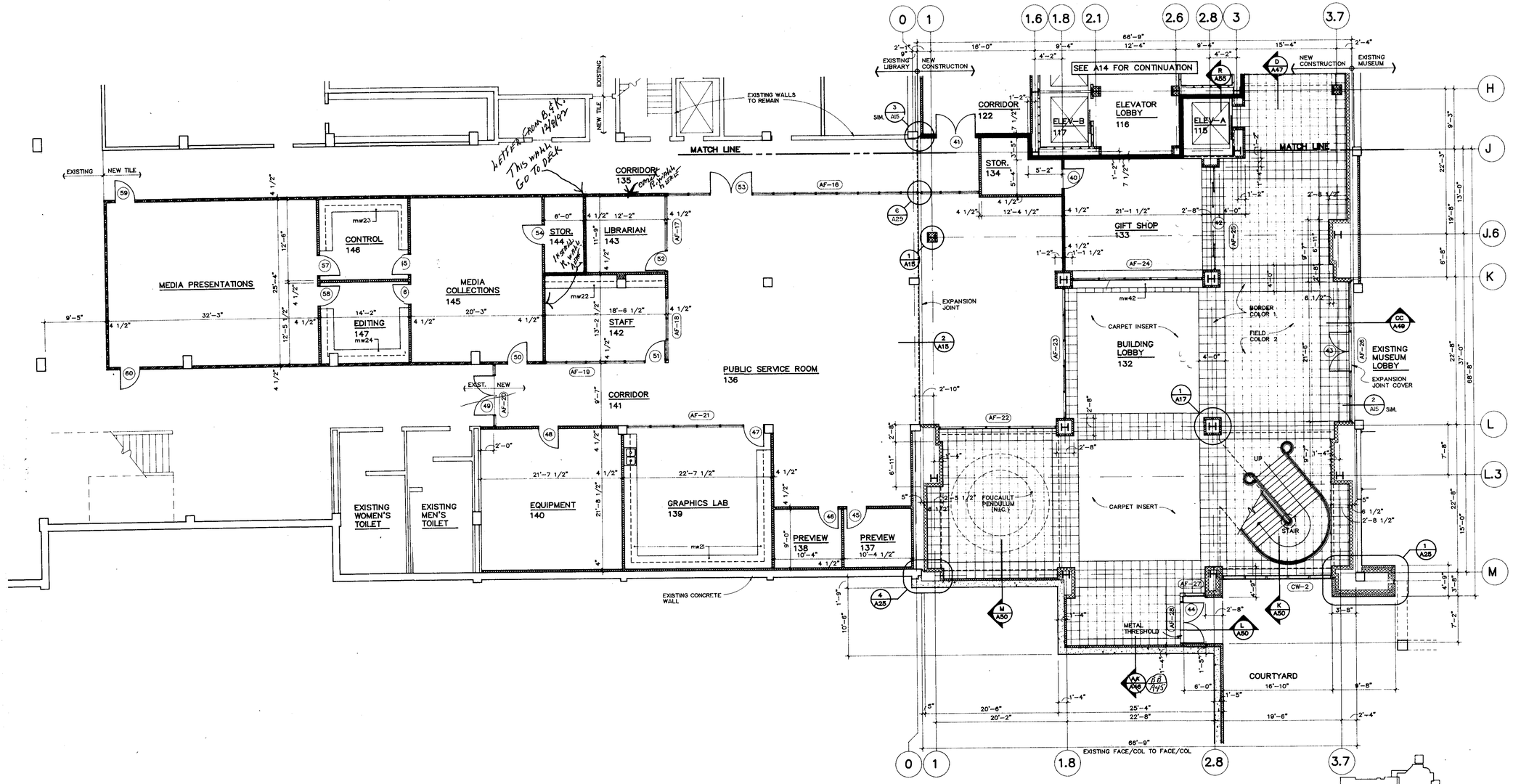
ground floor expansion jt. (2)

(JOINT AT NEW TO NEW SIMILAR) SCALE : 3" = 1'-0"



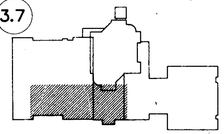
typ. interior column (1)

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



first floor plan part B

SCALE : 1/8" = 1'-0"



KEY PLAN

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361
739 SF
83 50 Yr

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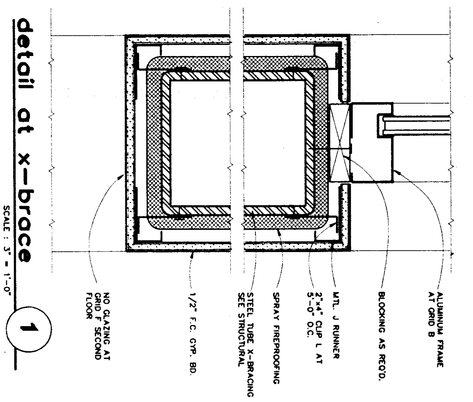
Architects Engineers Planners

COMM. NO. 11990

A15

DATE: SEPT. 15, 1991

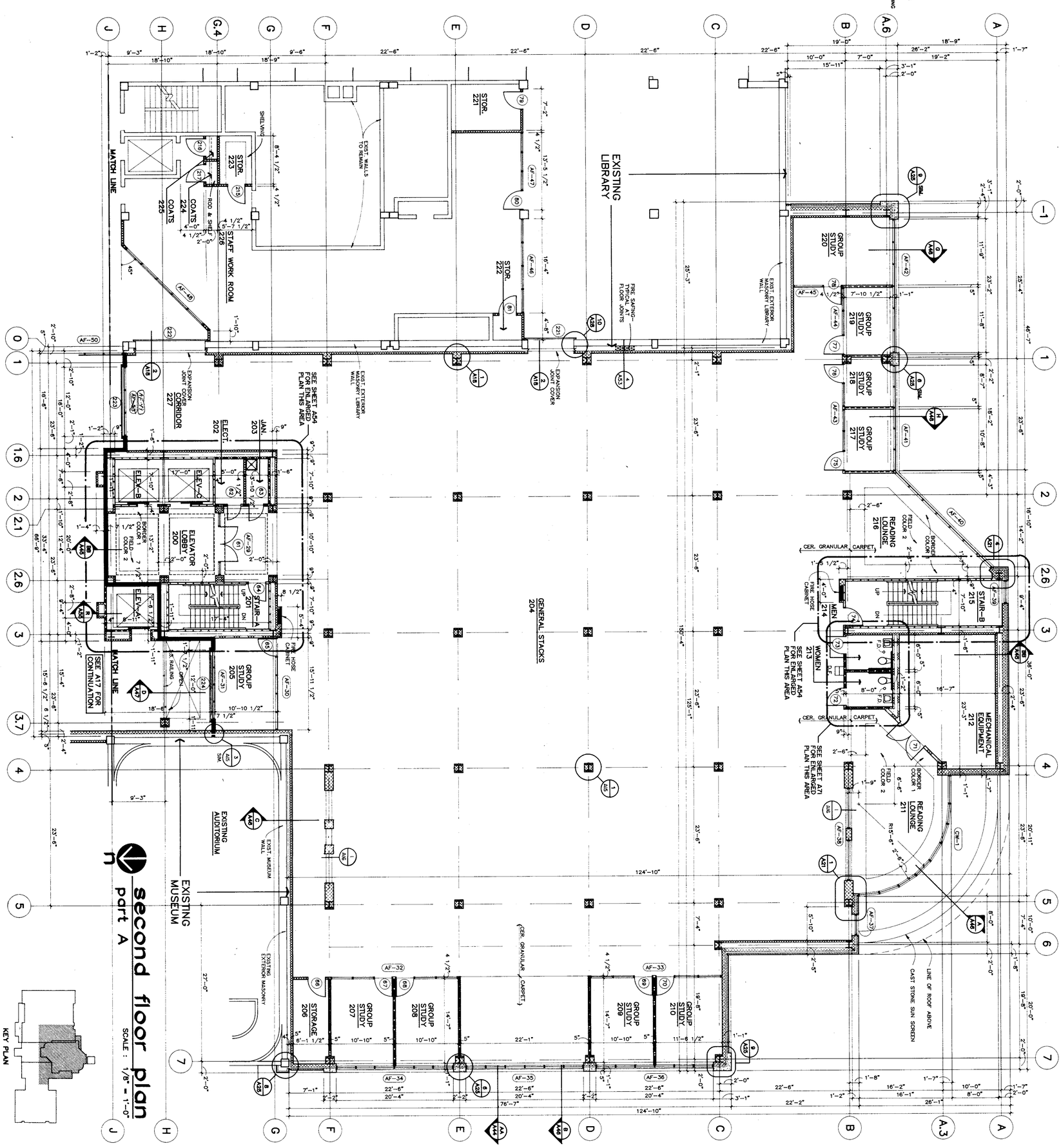
BRUNING, 40-5020 321891



detail at x-brace

SCALE : 3" = 1'-0"

1



second floor plan part A

SCALE : 1/8" = 1'-0"

KEY PLAN

COMM. NO. 11980

A16

DATE: SEPT. 15, 1991

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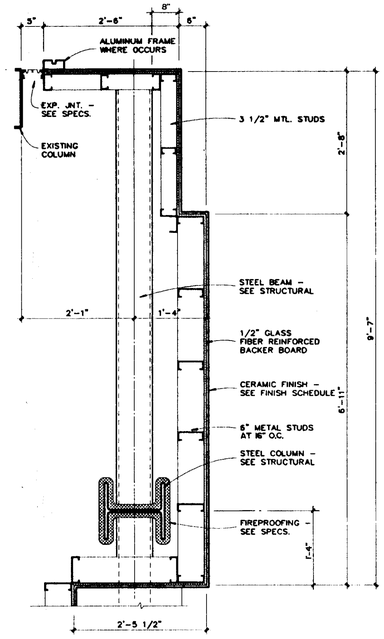
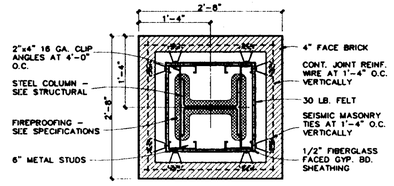


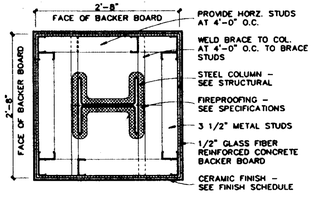
detail at library/museum entry 3

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



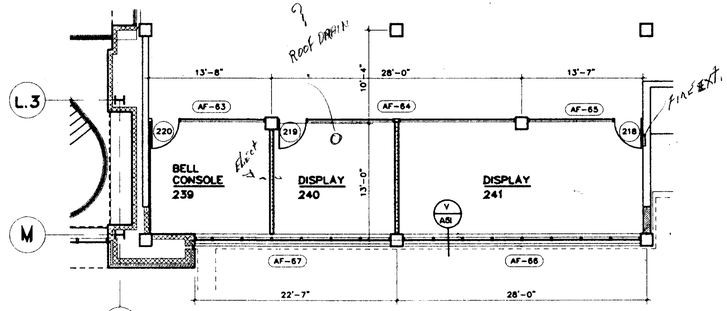
detail at ext. column 2

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



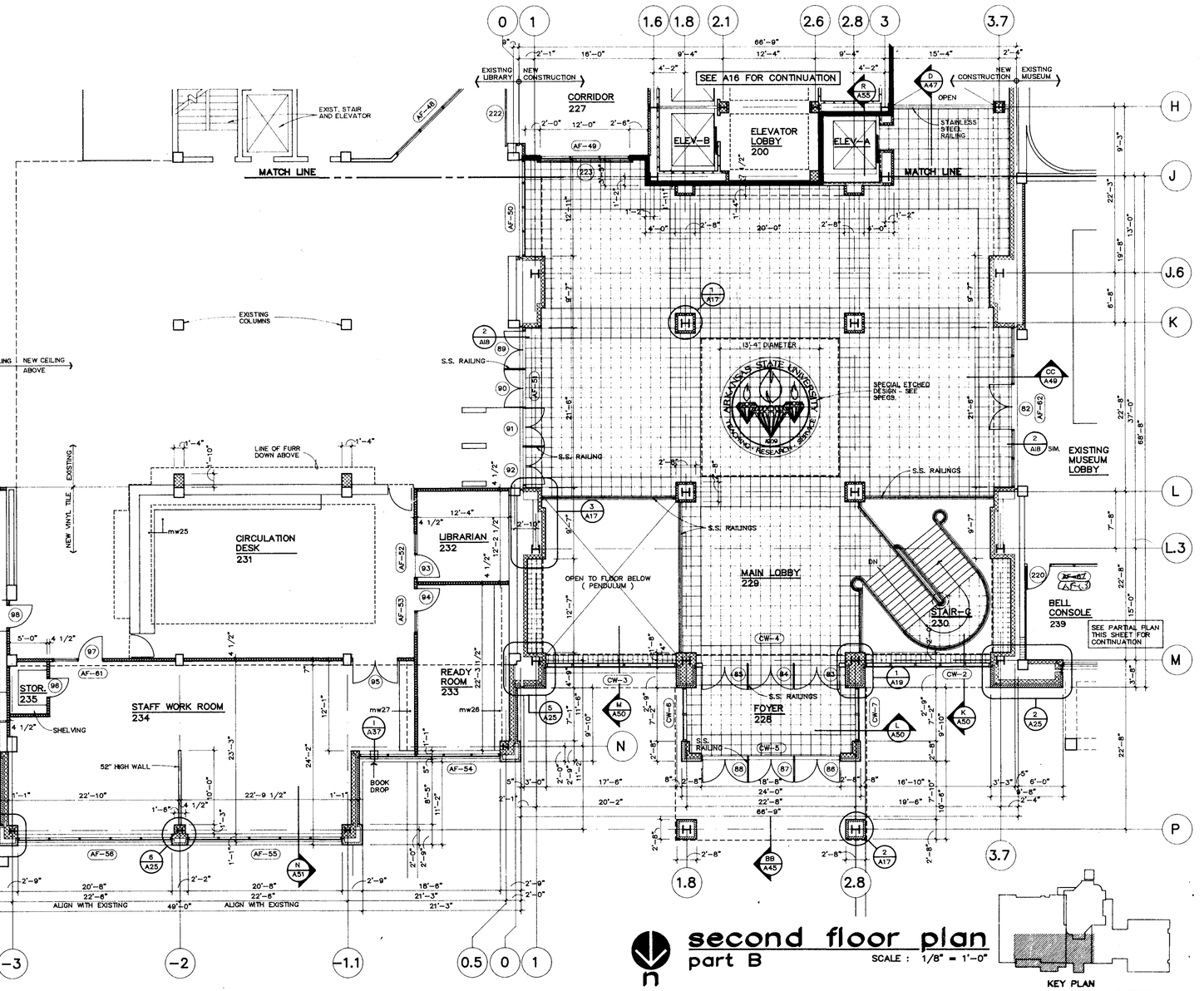
detail at lobby column 1

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



partial plan at museum

SCALE : 1/8" = 1'-0"



second floor plan part B

SCALE : 1/8" = 1'-0"

KEY PLAN

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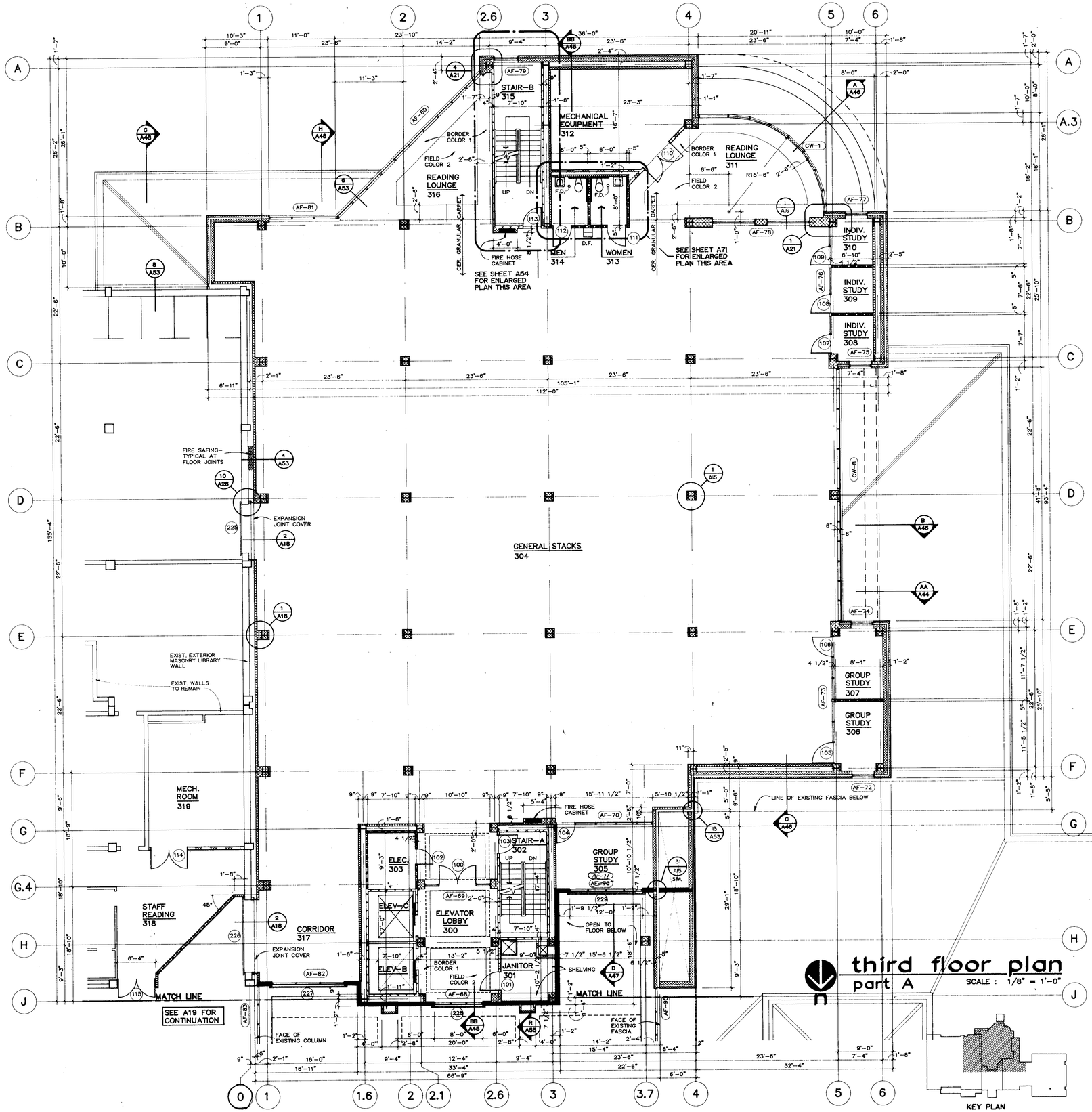
COMM. NO. 11990

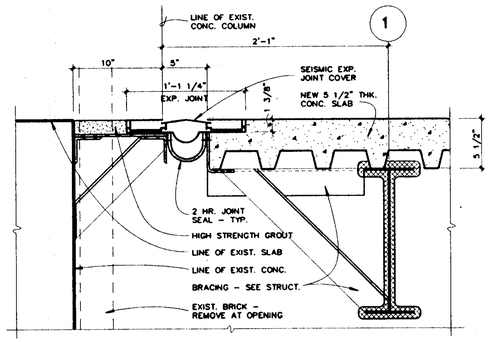
A17

DATE: SEPT. 15, 1991

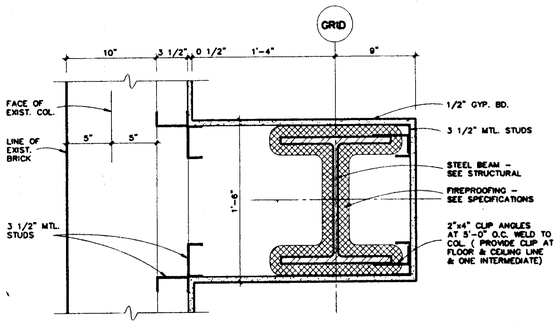
BRUNING 40-0020 321891



third floor plan
part A
SCALE : 1/8" = 1'-0"



floor expansion joint 2
(2 HOUR)
SCALE : 1 1/2" = 1'-0"



col. next to exist. library 1
SCALE : 1 1/2" = 1'-0"

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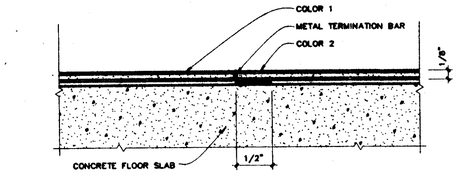
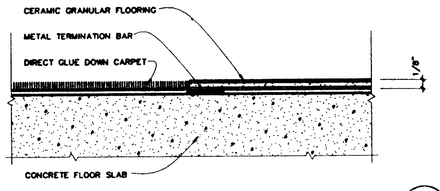
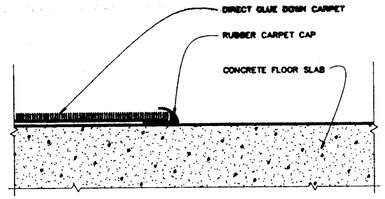


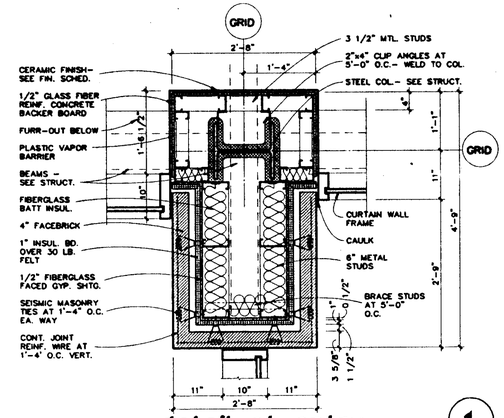
ceramic granular — 7
CHANGE IN COLOR — FULL SCALE



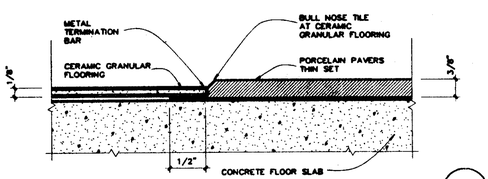
carpet — ceramic granular — 4
FULL SCALE



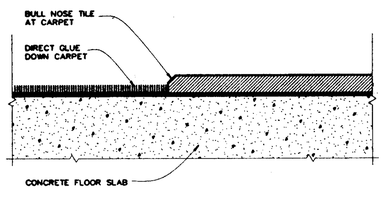
carpet — exposed concrete — 2
FULL SCALE



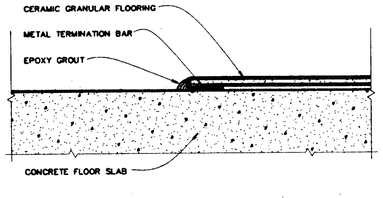
detail at entry — 1
SCALE : 3/4" = 1'-0"



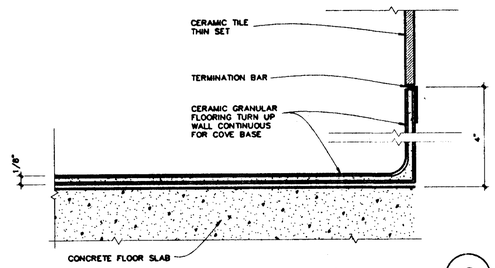
cer. gran. — porcelain pavers — 8
FULL SCALE



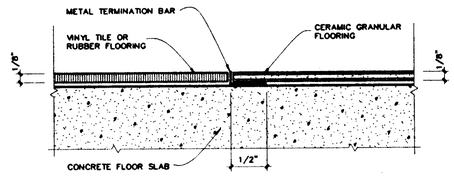
carpet — porcelain pavers — 5
FULL SCALE



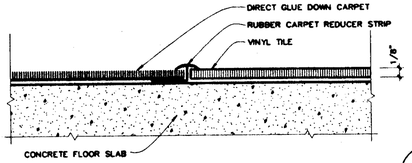
exp. conc. — ceramic gran. — 3
FULL SCALE



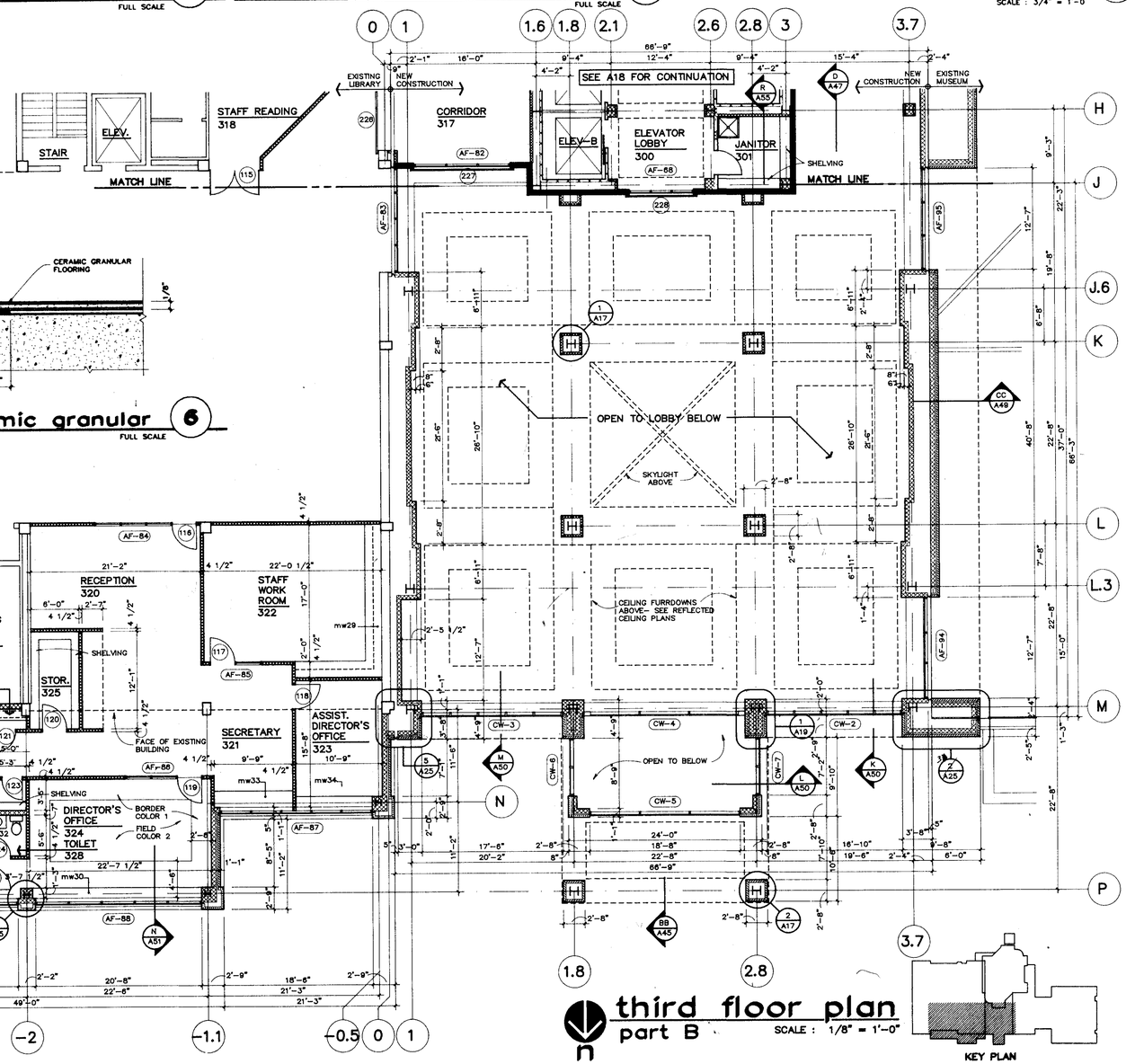
cer. granular — cer. tile wall — 9
FULL SCALE



vinyl tile — ceramic granular — 6
FULL SCALE



carpet — vinyl tile — 10
FULL SCALE



third floor plan — part B
SCALE : 1/8" = 1'-0"

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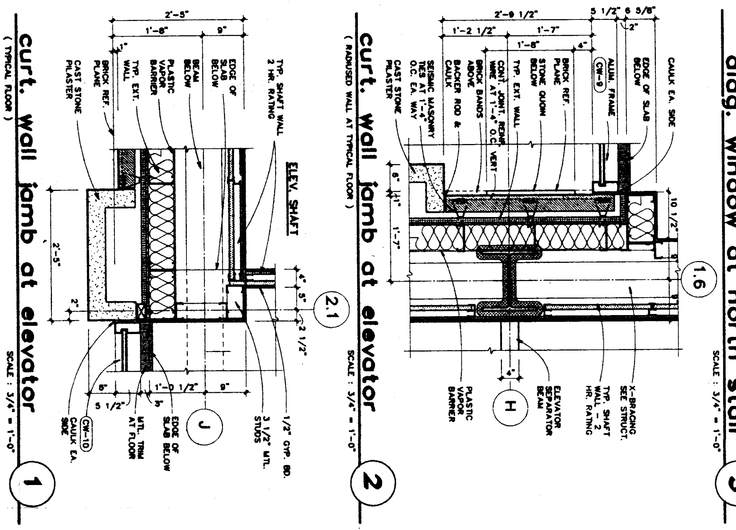
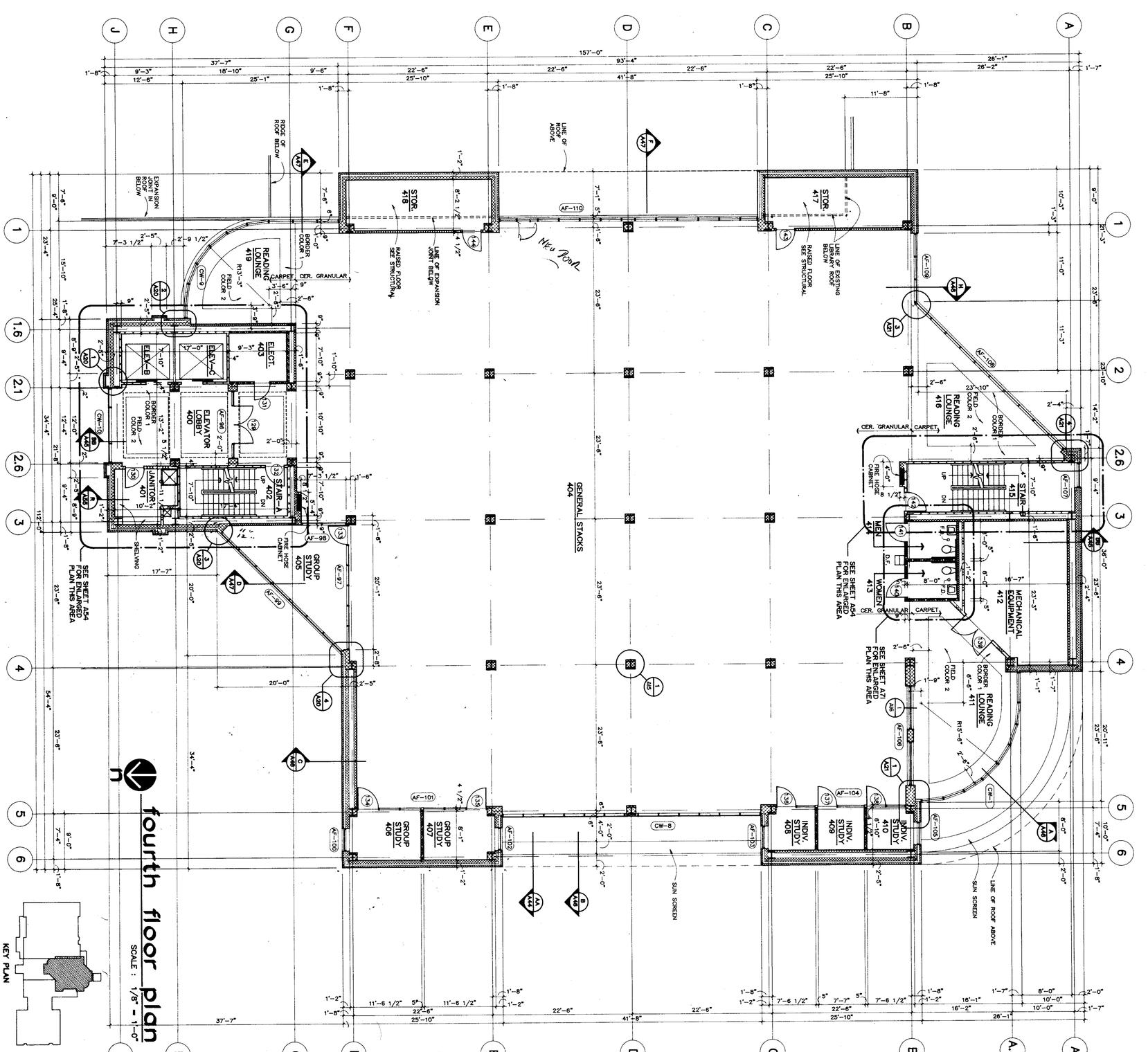
A19
DATE: SEPT. 15, 1991

BRUNING 40-0020 321831

BRUNING, 40-5020 321891





CONST. NO. 11990
A20
DATE: SEPT. 15, 1991

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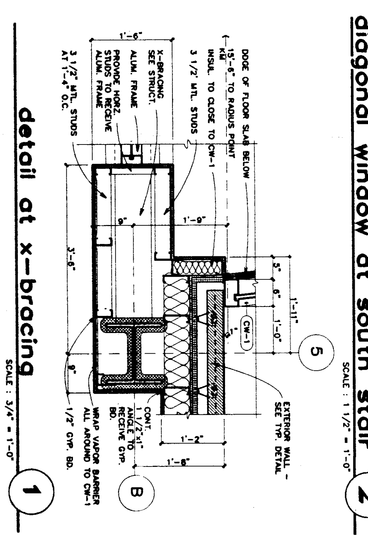
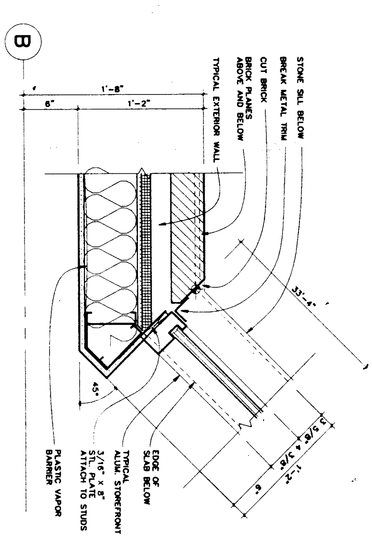
BRUNING, 40-9020 321891



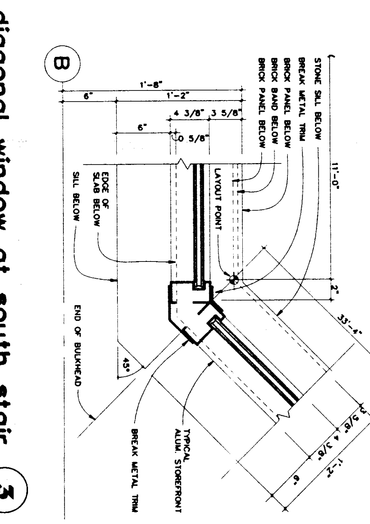
diagonal window at south stair (2)

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



diagonal window at south stair (3)

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

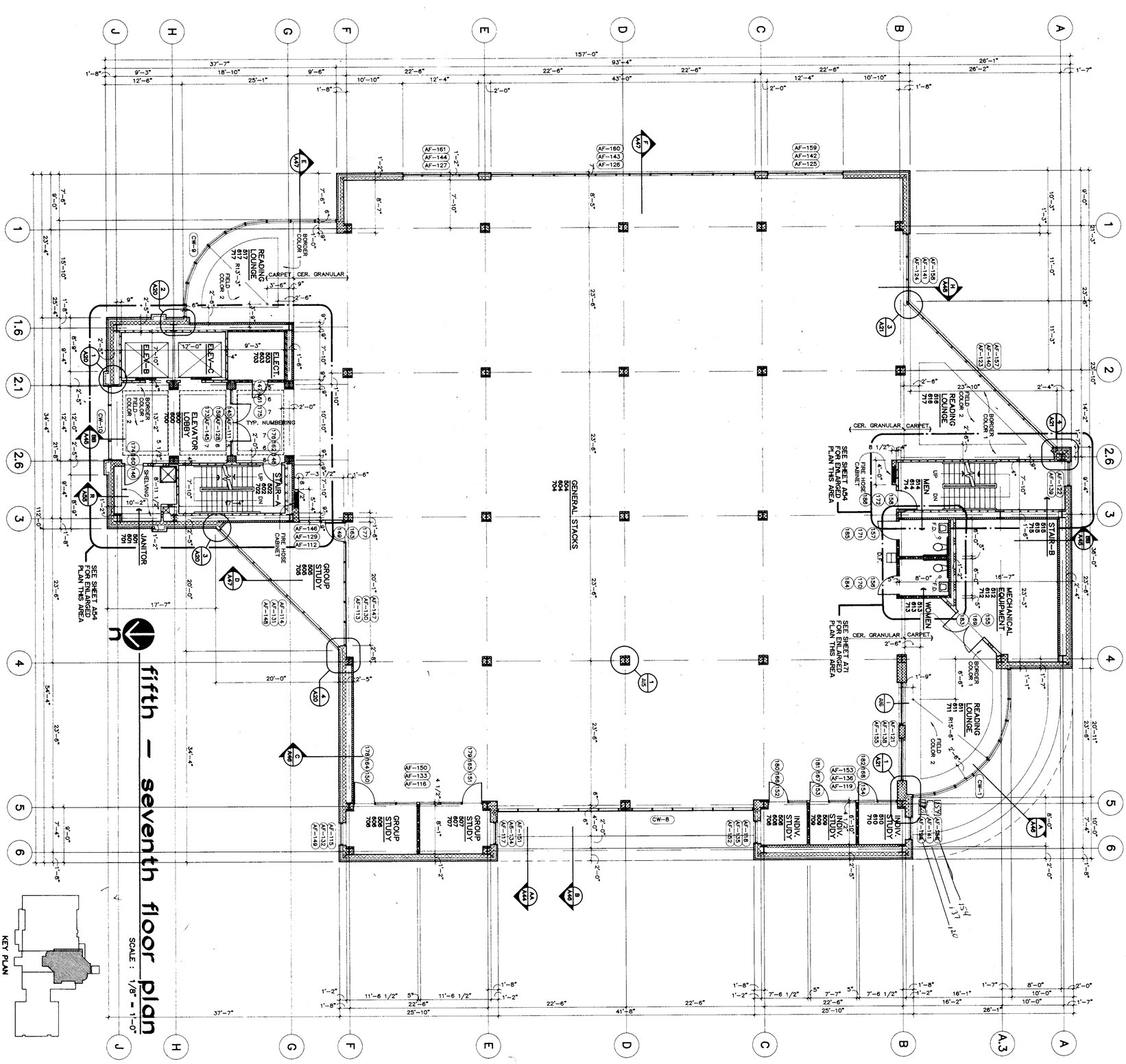


diagonal window at south stair (4)

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

detail at x-bracing (1)

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



fifth — seventh floor plan

SCALE : 1/8" = 1'-0"

KEY PLAN

CONAL NO. 11990
A21
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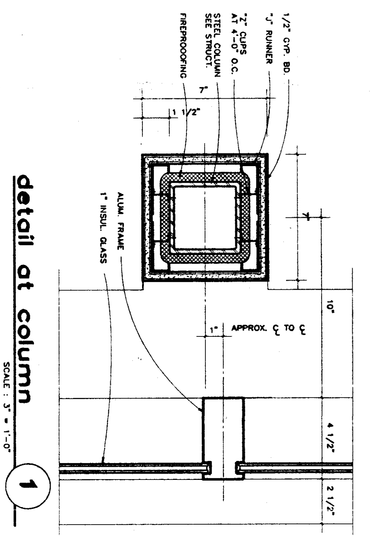
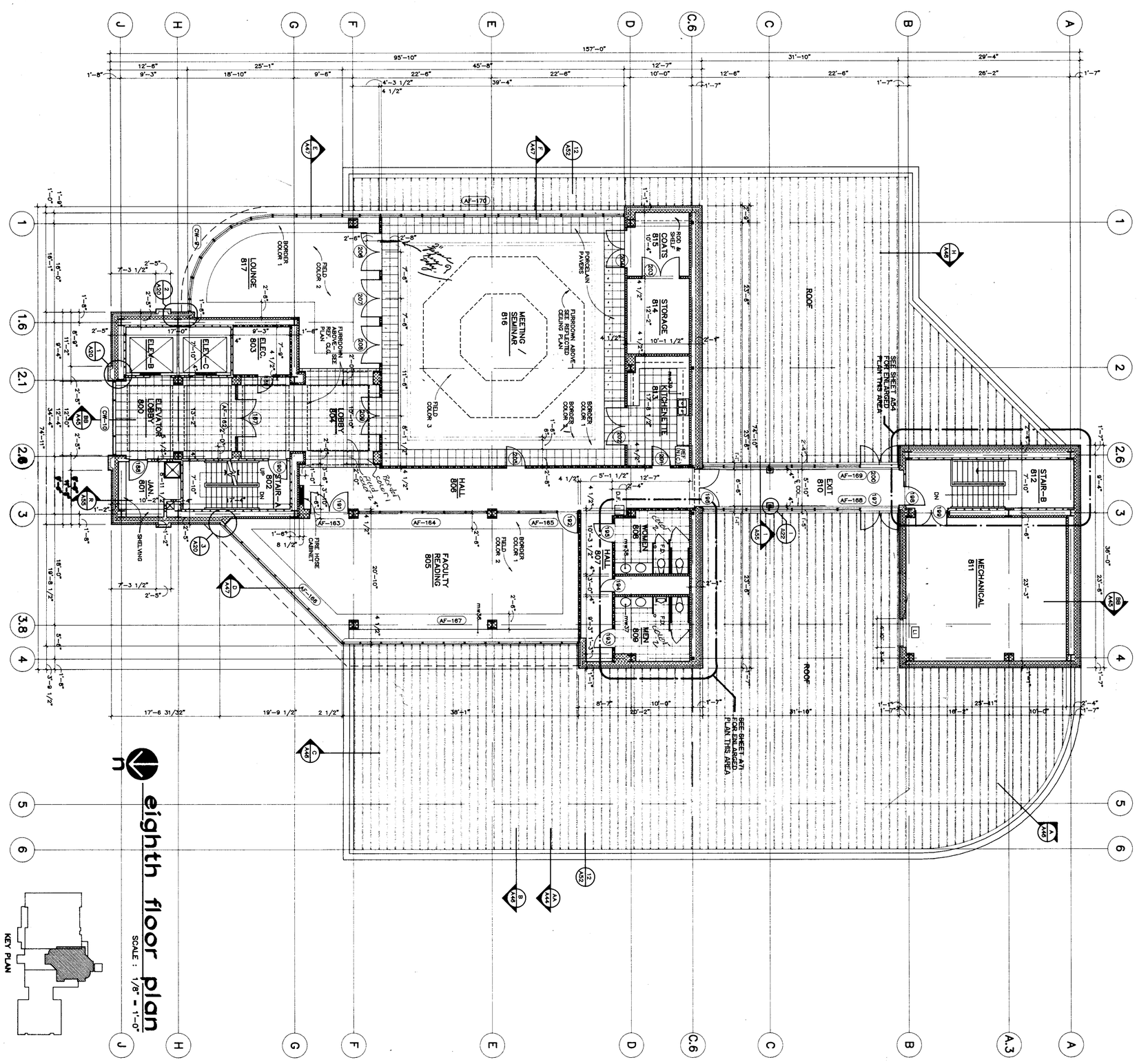


detail at column

SCALE: 3" = 1'-0"

1



eighth floor plan

SCALE: 1/8" = 1'-0"

KEY PLAN

COMM. NO. 1990
A22
DATE: SEPT. 15, 1991

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det. at equip. screen (3)

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

wall section (B)

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

detail at roof hatch (2)

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

pipe bollard detail (1)

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

clock tower floor plan

SCALE : 1/8" = 1'-0"

bell tower floor plan

SCALE : 1/8" = 1'-0"

mechanical building floor plan

SCALE : 1/8" = 1'-0"

elevator equipment floor plan

SCALE : 1/8" = 1'-0"

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A23

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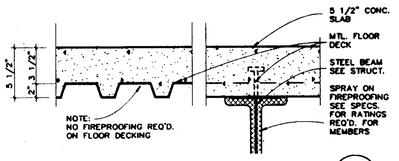
Architectural Plans

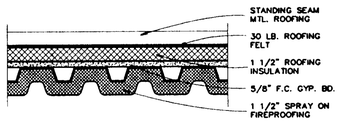
BRUNING 40-6020 321691



typ. floor assmbly. 2

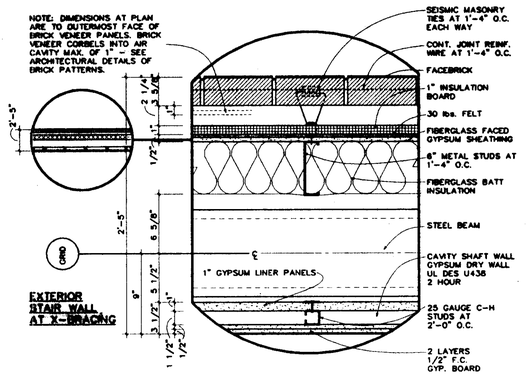
2 HR. UL DESIG. D-916 SCALE : 1 1/2" = 1'-0"

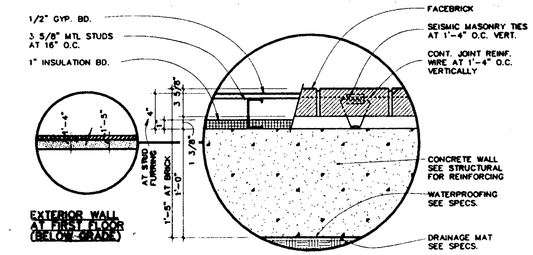
2/12
8/5
8/5



typ. roof deck 1

1 1/2 HR UL DESIG. P701 SIM. SCALE : 1 1/2" = 1'-0"





plan symbol
SCALE: 1/8" = 1'-0"

description
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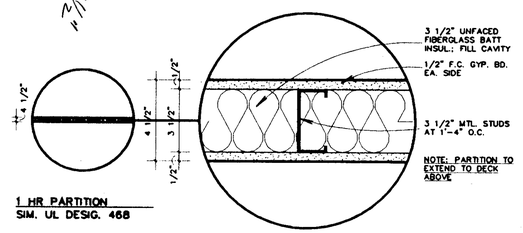

plan symbol
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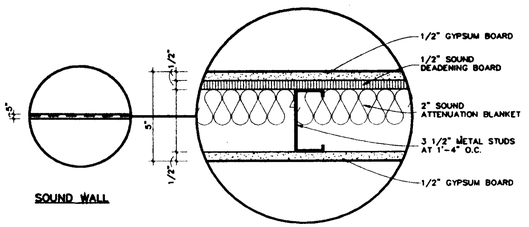
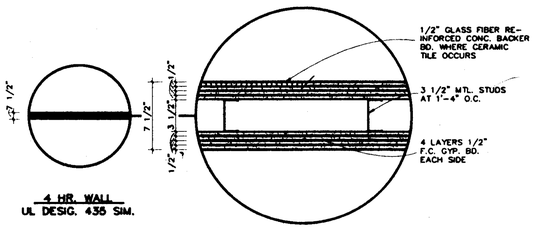
description
SCALE: 3" = 1'-0"





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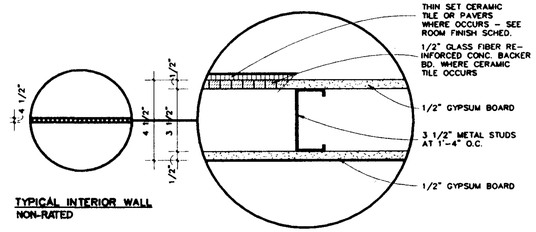

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description
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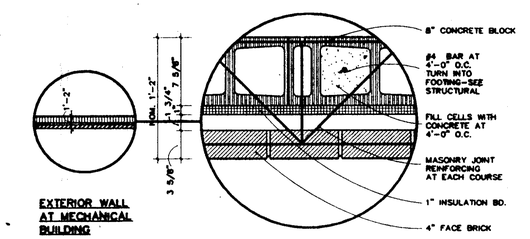

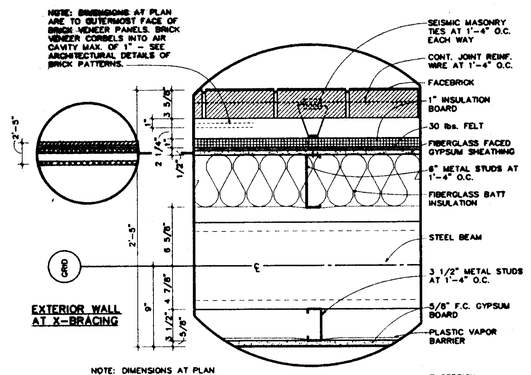

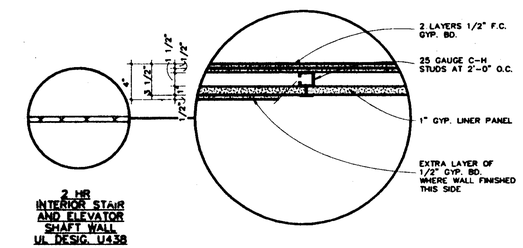

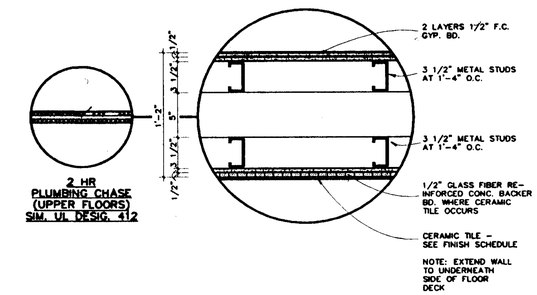

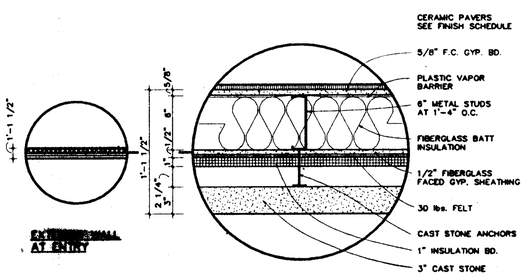

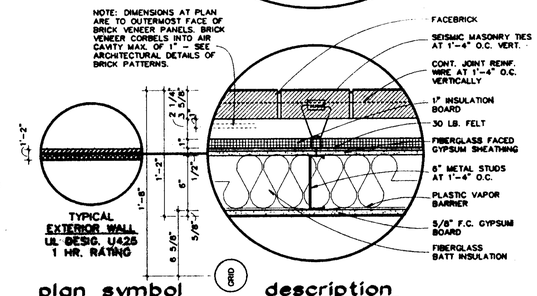

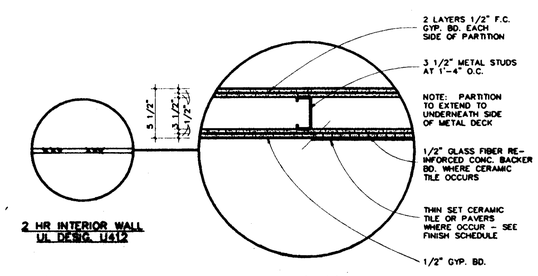

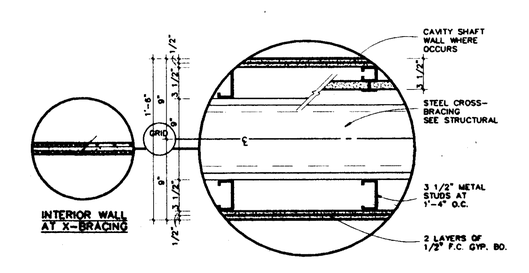

plan symbol
SCALE: 1/8" = 1'-0"

description
SCALE: 1 1/2" = 1'-0"

plan symbol
SCALE: 1/8" = 1'-0"

description
SCALE: 1 1/2" = 1'-0"

plan symbol
SCALE: 1/8" = 1'-0"

description
SCALE: 1 1/2" = 1'-0"

plan details — wall types

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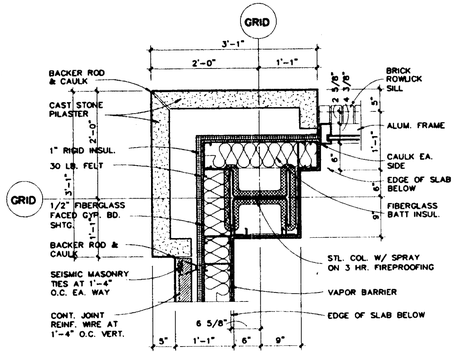
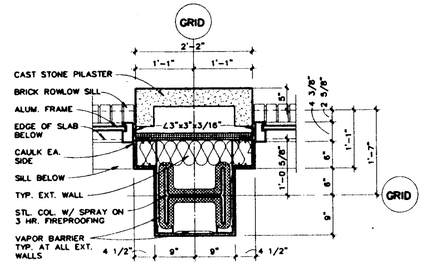


stone pilaster at corner 9

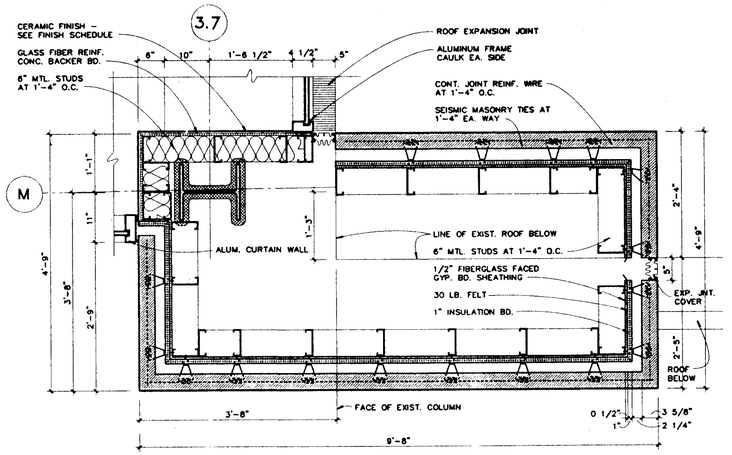
SCALE : 3/4" = 1'-0"



stone pilaster at window wall 6

(TYPICAL CONDITION)

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



detail at existing museum 3

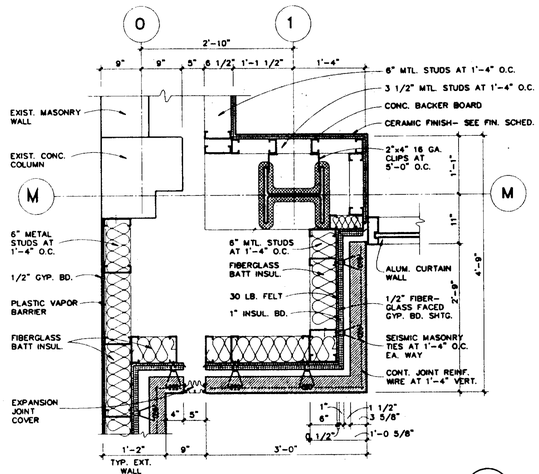
(ROOF)

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

expansion joint at museum 8

(SECOND FLOOR SOUTH)

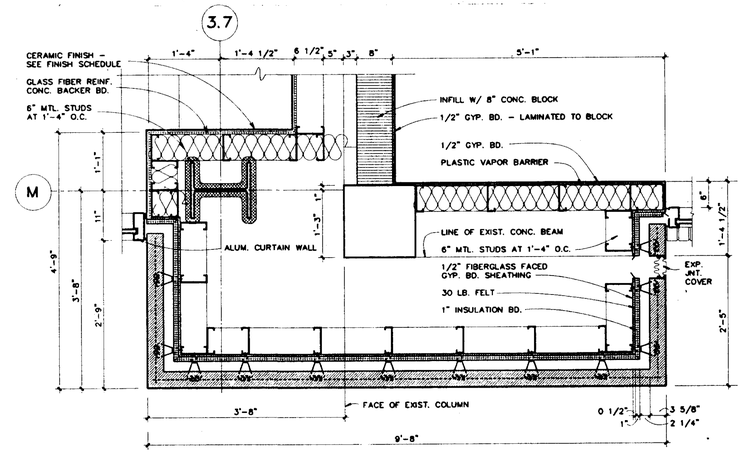
SCALE : 3/4" = 1'-0"



detail at existing library 5

(SECOND FLOOR)

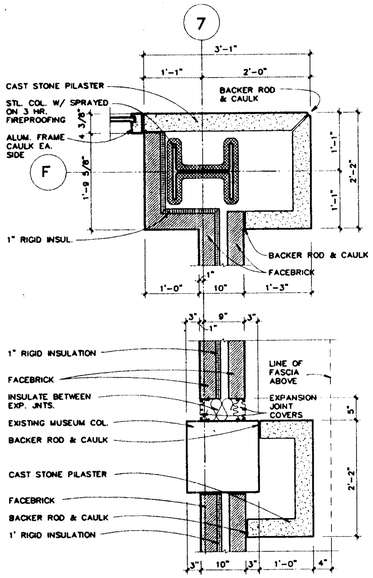
SCALE : 3/4" = 1'-0"



detail at existing museum 2

(SECOND FLOOR)

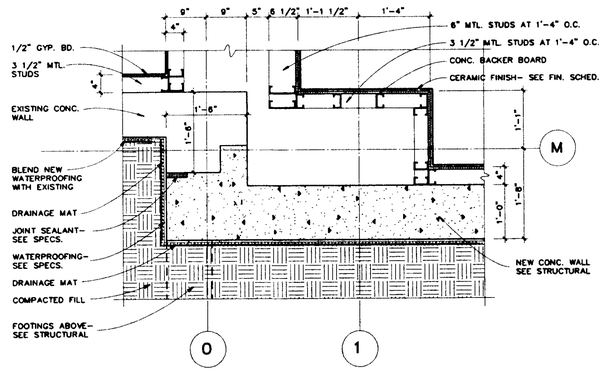
SCALE : 3/4" = 1'-0"



expansion joint at museum 7

(FIRST FLOOR SOUTH)

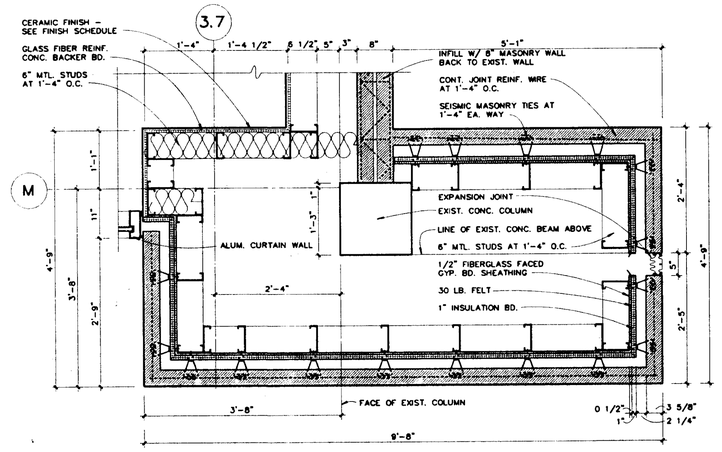
SCALE : 3/4" = 1'-0"



detail at existing library 4

(FIRST FLOOR)

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



detail at existing museum 1

(FIRST FLOOR)

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

plan details

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COMM. NO. 11990

A25

DATE: SEPT. 15, 1991

BRUNING 45-9020 2/1991

ROOM FINISH SCHEDULE

RM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING HEIGHT	CEILING
FIRST FLOOR						
100	Foyer	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4"	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
101	Book Drop	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
102	Student Mall	Ceramic Granular (3)	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4" & 10'-4" (4)	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
103	Reading Lounge	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Border (2)
104	24-Hour Study Hall	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
105	Smoking	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
106	Vending/ Lockers	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
107	Janitor	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd (5)	9'-4"	2x4 Susp Acoust Tile
108	Women	Ceramic Granular	4" Ceramic Granular (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
109	Men	Ceramic Granular	4" Ceramic Granular (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
110	Mechanical	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
111	Corridor	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd (6)	9'-4"	2x4 Susp Acoust Tile
112	Foyer	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd (6)	9'-4"	2x4 Susp Acoust Tile
113	Elevator Equipment	Exposed Concrete	None	Exposed Gyp Bd and Concrete	-	Exposed Gyp Bd
114	Stair A	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
115	Elevator A	Porcelain Tile	-	-	-	-
116	Elevator Lobby	Ceramic Granular (3)	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4" & 10'-4" (4)	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
117	Elevator B	Carpet	-	-	-	-
118	Elevator C	Carpet	-	-	-	-
119	Electrical	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
120	Janitor	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd (5)	9'-4"	2x4 Susp Acoust Tile
121	Corridor	Ceramic Granular (3)	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
122	Corridor	Ceramic Granular	4" Ceramic Granular (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
123	Service Corridor	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
124	Secretary	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
125	Archaeologist	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
126	Processing Lab	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd (9)	9'-4"	2x4 Susp Acoust Tile
127	Map Room	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
128	Storage Diagnostic Artifacts	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
129	Service	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
130	Equipment	Exposed Concrete	4" Rubber Cove	Painted Plywood (10)	9'-4"	2x4 Susp Acoust Tile
131	Stair B	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
132	Building Lobby	Porcelain Tile and Carpet (11)	4" Porcelain Cove	Porcelain Tile (12)	9'-4"	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
133	Gift Shop	Carpet	4" Straight Rubber	Porcelain Tile (12)	9'-4"	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
134	Storage	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
135	Corridor	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd and Block (13)	9'-0"	2x4 Susp Acoust Tile
136	Public Service Room	Carpet Tiles	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
137	Preview	Carpet Tiles	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
138	Preview	Carpet Tiles	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
139	Graphics Lab	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
140	Equipment	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
141	Corridor	Carpet Tiles	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
142	Staff	Carpet Tiles	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
143	Librarian	Carpet Tiles	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
144	Storage	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
145	Media Collections	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
146	Control	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
147	Editing	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
148	Media Presentations	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
SECOND FLOOR						
200	Elevator Lobby*	Ceramic Granular (3)	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4" & 10'-4" (4)	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
201	Stair A	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
202	Electrical	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
203	Janitor	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd (5)	9'-4"	2x4 Susp Acoust Tile
204	General Stacks	Ceramic Granular (11)	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
205	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
206	Storage	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
207	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile

ROOM FINISH SCHEDULE

RM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING HEIGHT	CEILING
SECOND FLOOR, CONTINUED						
208	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
209	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
210	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
211	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
212	Mechanical Equipment	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
213	Women	Ceramic Granular	4" Ceramic Granular Cove (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
214	Men	Ceramic Granular	4" Ceramic Granular Cove (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
215	Stair B	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
216	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
217	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
218	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
219	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
220	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
221	Storage	Existing Flooring to Remain	4" Rubber Cove	Painted Gyp Bd	9'-0"	2x4 Susp Acoust Tile
222	Storage	Existing Flooring to Remain	4" Rubber Cove	Painted Gyp Bd	9'-0"	2x4 Susp Acoust Tile
223	Storage	Existing Flooring to Remain	4" Rubber Cove	Painted Gyp Bd	9'-0"	2x4 Susp Acoust Tile
224	Coats	Existing Flooring to Remain	4" Rubber Cove	Painted Gyp Bd	9'-0"	2x4 Susp Acoust Tile
225	Coats	Existing Flooring to Remain	4" Rubber Cove	Painted Gyp Bd	9'-0"	2x4 Susp Acoust Tile
226	Staff Work Room	Existing Flooring to Remain	4" Rubber Cove (15)	Painted Gyp Bd and Block (16)	9'-0"	Existing Ceiling to Remain (17)
227	Corridor	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Bd Borders (14)
228	Foyer	Porcelain Tile	4" Porcelain Cove	Porcelain Tile (12)	22'-8"	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
229	Main Lobby	Porcelain Tile (18)	4" Porcelain Cove	Porcelain Tile (19)	22'-8" to 24'-0" (20)	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
230	Stair C	Porcelain Tile	Porcelain Tile	-	-	-
231	Circulation Desk	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-0" to 10'-0" (21)	2x4 Susp Acoust Tile with Painted Gyp Borders (2)
232	Librarian	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
233	Ready Room	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
234	Staff Work Room	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
235	Storage	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
236	Inter-Library Loan	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
237	Storage	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
238	Reading Lounge	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
239	Bell Console	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	Paint Existing Concrete Structure
240	Display	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4"	Paint Existing Concrete Structure
241	Display	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4"	Paint Existing Concrete Structure
THIRD FLOOR						
300	Elevator Lobby	Ceramic Granular (3)	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4" & 10'-4" (4)	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
301	Janitor	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd (5)	9'-4"	2x4 Susp Acoust Tile
302	Stair A	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
303	Electrical	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
304	General Stacks	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
305	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
306	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
307	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
308	Individual Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
309	Individual Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
310	Individual Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
311	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
312	Mechanical Equipment	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
313	Women	Ceramic Granular	4" Ceramic Granular Cove (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
314	Men	Ceramic Granular	4" Ceramic Granular Cove (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
315	Stair B	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
316	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)

ROOM FINISH SCHEDULE

RM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING HEIGHT	CEILING
THIRD FLOOR, CONTINUED						
317	Corridor	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
318	Staff Reading	Existing Flooring to Remain	4" Rubber Cove (15)	Painted Gyp Bd and Block (16)	9'-0"	Existing Ceiling to Remain (17)
319	Mechanical	Exposed Concrete	4" Rubber Cove (15)	Painted Gyp Bd	-	-
320	Reception	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
321	Secretary	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
322	Staff Work Room	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
323	Assistant Director's Office	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
324	Director's Office	Carpet (22)	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
325	Storage	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
326	Coats	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
327	Storage	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
328	Toilet	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
329	Conference	Carpet (22)	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
330	Staff Lounge	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
331	Public Service	Vinyl Tile	4" Rubber Cove	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
FOURTH FLOOR						
400	Elevator Lobby	Ceramic Granular (3)	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4" & 10'-4" (4)	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
401	Janitor	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd (5)	9'-4"	2x4 Susp Acoust Tile
402	Stair A	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
403	Electrical	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
404	General Stack	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
405	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
406	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
407	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
408	Individual Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
409	Individual Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
410	Individual Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
411	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
412	Mechanical Equipment	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
413	Women	Ceramic Granular	4" Ceramic Granular Cove (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
414	Men	Ceramic Granular	4" Ceramic Granular Cove (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
415	Stair B	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
416	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
417	Storage	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	7'-4"	2x4 Susp Acoust Tile
418	Storage	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	7'-4"	2x4 Susp Acoust Tile
419	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
FIFTH FLOOR (500) - SIXTH FLOOR (600) - SEVENTH FLOOR (700)						
500 600 700	Elevator Lobby	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4" & 10'-4" (4)	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
501 601 701	Janitor	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd (5)	9'-4"	2x4 Susp Acoust Tile
502 602 702	Stair A	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
503 603 703	Electrical	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
504 604 704	General Stacks	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
505 605 705	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
506 606 706	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
507 607 707	Group Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
508 608 708	Individual Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
509 609 709	Individual Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
510 610 710	Individual Study	Carpet	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile
511 611 711	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)

ROOM FINISH SCHEDULE

RM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING HEIGHT	CEILING
FIFTH FLOOR (500) - SIXTH FLOOR (600) - SEVENTH FLOOR (700), CONTINUED						
512 612 712	Mechanical Equipment	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
513 613 713	Women	Ceramic Granular	4" Ceramic Granular Cove (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
514 614 714	Men	Ceramic Granular	4" Ceramic Granular Cove (1)	Ceramic Tile	9'-4"	2x4 Susp Acoust Tile
515 615 715	Stair B	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Bd (8)
516 616 716	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
517 617 717	Reading Lounge	Carpet (22)	4" Straight Rubber	Painted Gyp Bd	9'-4"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
EIGHTH FLOOR						
800	Elevator Lobby	Porcelain Tile	4" Porcelain Cove	Porcelain Tile (12)	9'-4" & 10'-4" (4)	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
801	Janitor	Ceramic Granular	4" Ceramic Granular Cove (1)	Painted Gyp Bd (5)	9'-4"	2x4 Susp Acoust Tile
802	Stair A	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	-	Painted Gyp Board (8)
803	Electrical	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
804	Lobby	Porcelain Tile	4" Porcelain Cove	Porcelain Tile (12)	9'-4" & 10'-4" (4)	2x2 Susp Acoust Tile with Painted Gyp Borders (2)
805	Faculty Reading	Carpet (22)	4" Straight Rubber	Vinyl Wall Covering	12'-0"	2x4 Susp Acoust Tile
806	Hall	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
807	Hall	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
808	Women	Porcelain Tile	4" Porcelain Cove	Porcelain Tile (12)	9'-4"	2x4 Susp Acoust Tile
809	Men	Porcelain Tile	4" Porcelain Cove	Porcelain Tile (12)	9'-4"	2x4 Susp Acoust Tile
810	Exit	Carpet	4" Straight Rubber	Vinyl Wall Covering	8'-0"	2x4 Susp Acoust Tile
811	Mechanical	Exposed Concrete	4" Rubber Cove	Painted Gyp Bd	-	Exposed Structure
812	Stair B	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	9'-4"	Painted Gyp Board
813	Kitchenette	Porcelain Tile	4" Porcelain Cove	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
814	Storage	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
815	Coats	Carpet	4" Straight Rubber	Vinyl Wall Covering	9'-4"	2x4 Susp Acoust Tile
816	Meeting/ Seminar	Porcelain Tile and Carpet (23)	4" Porcelain Cove	Vinyl Wall Covering	12'-0"	2x2 Susp Acoust Tile and Plaster (24)
817	Lounge	Carpet (22)	4" Straight Rubber	Vinyl Wall Covering	12'-0"	2x4 Susp Acoust Tile with Painted Gyp Borders (14)
ELEVATOR EQUIPMENT FLOOR (9TH LEVEL)						
900	Stair A	Rubber Flooring (7)	4" Rubber Cove	Painted Gyp Bd	13'-0"	Painted Gyp Bd
901	Mechanical	Exposed Concrete	None	Exposed Gyp Bd	-	Exposed Structure
902	Elevator Equipment	Exposed Concrete	None	Exposed Gyp Bd	-	Exposed Structure
MECHANICAL BUILDING						
M-1	Mechanical Room	Exposed Concrete	None	Exposed Concrete Block	-	Exposed Structure

REMARKS:

1. Ceramic granular flooring turn continuous up wall to form 4" cove base.
2. Gypsum borders on suspension system or furring system - SEE REFLECTED CEILING PLANS AND DETAILS.
3. Ceramic granular flooring in two colors - SEE PLAN.
4. Gypsum borders and furr down at 9'-4"; acoustical tile raised to 10'-4".
5. 4'-0" wide x 4'-8" high ceramic tile wainscot behind service sink on two walls - SEE INTERIOR ELEVATIONS.
6. Exposed brick at existing building
7. Rubber treads and risers at stairs and rubber flooring at landings.
8. Underneath side of stairs and landings to be painted gypsum board.
9. 12'-0" wide X 4'-8" high ceramic tile wainscot behind Service Sinks - SEE INTERIOR ELEVATIONS.
10. 1/2" thick plywood sheets - screw through gypsum board to metal studs.
11. Carpet inserts - SEE PLAN.
12. SEE INTERIOR ~~PLAN~~ ELEVATIONS
13. Paint existing walls to end of Corridor.
14. General Stacks area and Reading Lounge ceilings are pattern of 2x4, 1x4, and gypsum borders; see reflected ceiling plan and details.
15. New base around new walls.
16. Repaint entire room.
17. Patch and repair existing ceilings as required after installation of new work this area.
18. Special seal design in floor; SEE SPECIFICATIONS.
19. Special pattern in wall above entrances to Library and Museum; SEE INTERIOR ELEVATIONS AND SPECIFICATIONS.
20. Ceiling in Main Lobby is coffered; SEE REFLECTED CEILING PLANS AND DETAILS.
21. 10'-0" ceiling coffered over Circulation Desk; SEE REFLECTED CEILING PLANS AND DETAILS.
22. Two colors of carpet - SEE PLAN.
23. 2'-8" porcelain tile border around room; two carpet borders of different colors 1'-6" wide and 6" wide; carpet field third color.
24. Painted plaster dome; SEE REFLECTED CEILING PLAN AND DETAILS.

ADDITIONS AND ALTERATIONS TO

DEAN B. ELLIS LIBRARY

ARKANSAS STATE UNIVERSITY

STATE UNIVERSITY, ARKANSAS

Note: Omit reference to porcelain cove. Base may be cut from required porcelain tile.

BRACKETT-KRENNERICH & ASSOCIATES, P.A. REGISTERED ARCHITECTS C13 JONESBORO, ARKANSAS

Brackett Krennerich and Associates P.A.

Architects Engineers Planners

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COMM. NO. 11990

A26

DATE: SEPT. 15, 1991

BRUNING 49-5020 3/1991

DOOR SCHEDULE

OPNG NMBR	DOOR TYPE	DOOR NMBR	DOOR THRESH	DOOR FRAME	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	LBL	HDWE SET	REMARKS
FIRST FLOOR										
1	AF-1		ALUM						1	ALUM DOORS & FRAME
2	AF-1		ALUM						1	ALUM DOORS & FRAME
3	AF-2								1	ALUM DOORS & FRAME
4	AF-2								1	ALUM DOORS & FRAME
5	A	SINGLE	-	HMF-1	-	1/A-28			3	
6	AF-3								1	ALUM DOORS & FRAME
7	AF-6								1	ALUM DOORS & FRAME
8	AF-7								1	ALUM DOORS & FRAME
9	AF-9								1	ALUM DOORS & FRAME
10	AF-8								1	ALUM DOORS & FRAME
11	B	SINGLE	-	HMF-2	-	1/A-28		-	4	
12	A	SINGLE	-	HMF-3	-	2/A-28		"B"	4	
13	A	SINGLE	-	HMF-3	-	3/A-28		20M	5	
14	A	SINGLE	-	HMF-3	-	2/A-28		20M	5	
15	M	PAIR	-	HMF-14	-	18/A-28		"A"	6	
16	AF-12		ALUM						1	ALUM DOORS & FRAME
17	C	PAIR	ALUM	HMF-4	4/A-28	5/A-28	6/A-28	-	7	
18	M	PAIR	-	HMF-14	-	18/A-28		"A"	8	
19	M	PAIR	-	HMF14	-	18/A-28		"A"	8	
20	B	SINGLE	-	HMF-5,	7/A-28	8/A-28		"B"	4	
21	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
22	E	PAIR	-	HMF-7	-	2/A-28		"B"	10	
23	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
24	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
25	AF-11								2	ALUM DOORS & FRAME
26	E	PAIR	-	HMF-7	-	2/A-28		"B"	11	
27	M	PAIR	-	HMF-7	9/A-28	10/A-28		"A"	11	
28	A	SINGLE	-	HMF-1	-	1/A-28		-	3	ALUM FRAME
29	A	SINGLE	-	HMF-10				"B"	3	ALUM DOOR & FRAME
30	A	SINGLE	-	HMF-3		2/A-28		"B"	3	
31	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
32	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
33	M	PAIR	-	HMF-7	9/A-28	10/A-28		"A"	11	
34	E	PAIR	-	HMF-8	-	1/A-28		-	11	
35	G	-	-	-	11/A-28	12/A-28		-	-	COILING DOOR
36	F	SINGLE	ALUM	HMF-9		5/A-28	6/A-28	-	12	
37	C	PAIR	ALUM	HMF-4	4/A-28	5/A-28	6/A-28	-	11	
38	F	SINGLE	ALUM	HMF-9	4/A-28	5/A-28	6/A-28	-	13	
39	DOOR OMITTED									
40	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
41	M	SINGLE	-	HMF-14	-	18/A-28		"A"	8	
42	AF-25								1	ALUM MALL DOOR
43	AF-26								1	ALUM DOORS & FRAME
44	AF-28								1	ALUM DOORS & FRAME
45	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
46	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
47	A	SINGLE	-	AF-21					3	ALUM FRAME
48	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
49	AF-20								1	ALUM DOORS & FRAME
50	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
51	A	SINGLE	-	AF-19					3	ALUM FRAME
52	A	SINGLE	-	AF-17					3	ALUM FRAME
53	AF-16								1	ALUM DOORS & FRAME
54	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
55	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
56	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
57	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
58	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
59	A	SINGLE	-	HMF-1	-	1/A-28		20M	3	
60	A	SINGLE	-	HMF-1	-	1/A-28		20M	3	
230	P	PAIR	-	HMF-15	-	-	-	"A"	14	
231	AF-175		ALUM						1	ALUM DOOR & FRAME

DOOR SCHEDULE

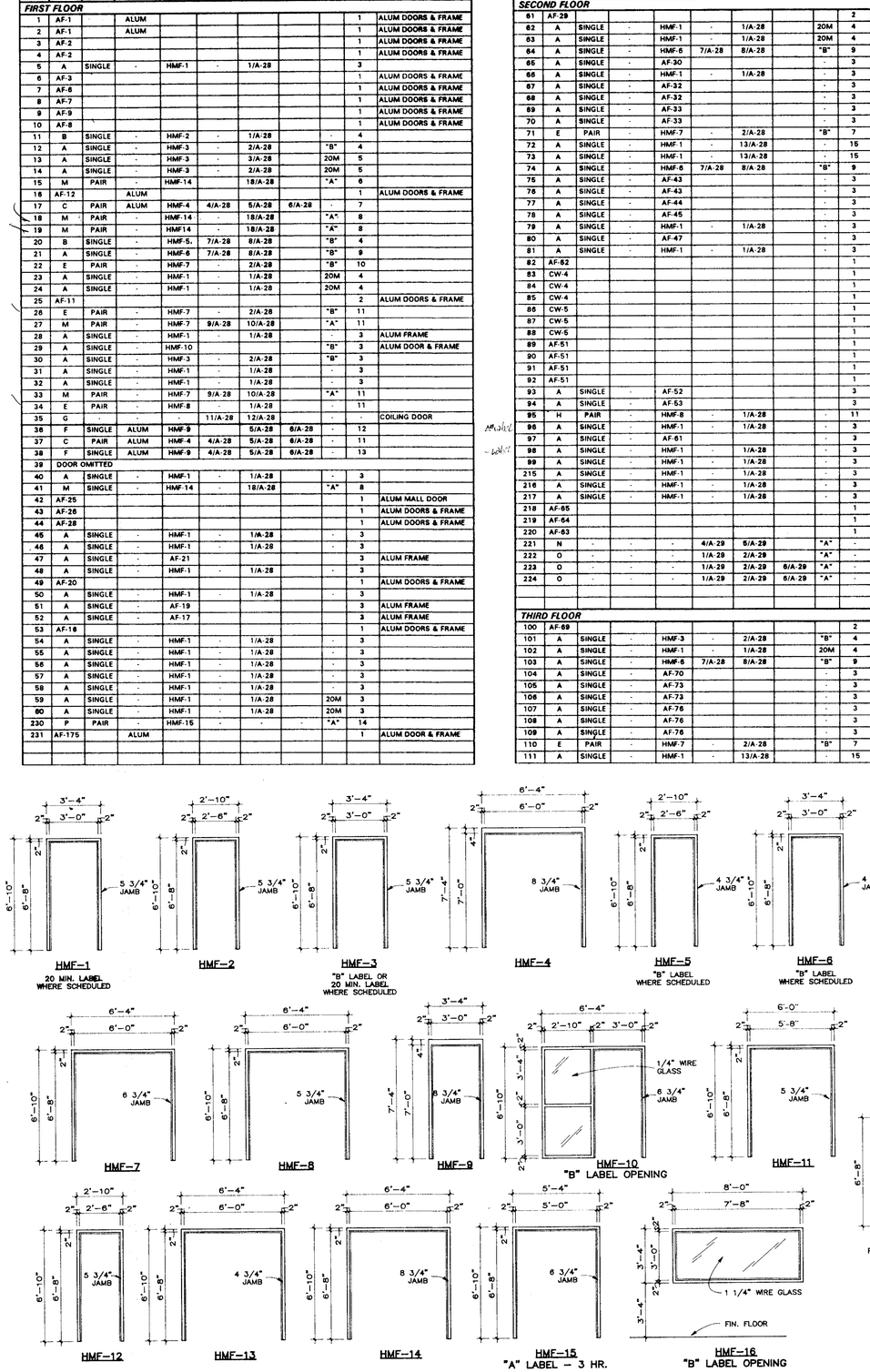
OPNG NMBR	DOOR TYPE	DOOR NMBR	DOOR THRESH	DOOR FRAME	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	LBL	HDWE SET	REMARKS
SECOND FLOOR										
61	AF-29								2	ALUM DOORS & FRAME
62	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
63	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
64	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
65	A	SINGLE	-	AF-30				-	3	ALUM FRAME
66	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
67	A	SINGLE	-	AF-32				-	3	ALUM FRAME
68	A	SINGLE	-	AF-32				-	3	ALUM FRAME
69	A	SINGLE	-	AF-33				-	3	ALUM FRAME
70	A	SINGLE	-	AF-33				-	3	ALUM FRAME
71	E	PAIR	-	HMF-7	-	2/A-28		"B"	7	
72	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
73	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
74	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
75	A	SINGLE	-	AF-43				-	3	ALUM FRAME
76	A	SINGLE	-	AF-43				-	3	ALUM FRAME
77	A	SINGLE	-	AF-44				-	3	ALUM FRAME
78	A	SINGLE	-	AF-45				-	3	ALUM FRAME
79	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
80	A	SINGLE	-	AF-47				-	3	ALUM FRAME
81	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
82	AF-82								1	ALUM DOORS & FRAME
83	CW-4								1	ALUM DOORS & FRAME
84	CW-4								1	ALUM DOORS & FRAME
85	CW-4								1	ALUM DOORS & FRAME
86	CW-5								1	ALUM DOORS & FRAME
87	CW-5								1	ALUM DOORS & FRAME
88	CW-5								1	ALUM DOORS & FRAME
89	AF-51								1	ALUM DOORS & FRAME
90	AF-51								1	ALUM DOORS & FRAME
91	AF-51								1	ALUM DOORS & FRAME
92	AF-51								1	ALUM DOORS & FRAME
93	A	SINGLE	-	AF-52					3	ALUM FRAME
94	A	SINGLE	-	AF-53					3	ALUM FRAME
95	H	PAIR	-	HMF-8	-	1/A-28			11	
96	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
97	A	SINGLE	-	AF-61					3	ALUM FRAME
98	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
99	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
215	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
216	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
217	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
218	AF-65								1	ALUM DOORS & FRAME
219	AF-64								1	ALUM DOOR & FRAME
220	AF-63								1	ALUM DOOR & FRAME
221	N	-	-	-	4/A-29	5/A-29		"A"	-	COILING FIRE DOOR
222	O	-	-	-	1/A-29	2/A-29		"A"	-	COILING FIRE DOOR
223	O	-	-	-	1/A-29	2/A-29	6/A-29	"A"	-	COILING FIRE DOOR
224	O	-	-	-	1/A-29	2/A-29	6/A-29	"A"	-	COILING FIRE DOOR
THIRD FLOOR										
100	AF-69								2	ALUM DOORS & FRAME
101	A	SINGLE	-	HMF-3	-	2/A-28		"B"	4	
102	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
103	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
104	A	SINGLE	-	AF-70				-	3	ALUM FRAME
105	A	SINGLE	-	AF-73				-	3	ALUM FRAME
106	A	SINGLE	-	AF-73				-	3	ALUM FRAME
107	A	SINGLE	-	AF-76				-	3	ALUM FRAME
108	A	SINGLE	-	AF-76				-	3	ALUM FRAME
109	A	SINGLE	-	AF-76				-	3	ALUM FRAME
110	E	PAIR	-	HMF-7	-	2/A-28		"B"	7	
111	A	SINGLE	-	HMF-1	-	13/A-28		-	15	

DOOR SCHEDULE

OPNG NMBR	DOOR TYPE	DOOR NMBR	DOOR THRESH	DOOR FRAME	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	LBL	HDWE SET	REMARKS
112	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
113	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
114	E	PAIR	-	HMF-7	-	2/A-28		"B"	7	
115	E	PAIR	-	HMF-8		1/A-28			11	
116	A	SINGLE	-	AF-84				-	3	ALUM FRAME
117	A	SINGLE	-	AF-85				-	3	ALUM FRAME
118	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
119	A	SINGLE	-	AF-86				-	3	ALUM FRAME
120	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
121	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
122	K	PAIR	-	HMF-11	-	1/A-28		-	11	
123	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
124	L	SINGLE	-	HMF-12	-	1/A-28		-	15	
125	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
126	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
127	AF-93								11	ALUM DOORS & FRAME
128	E	PAIR	-	HMF-7	9/A-28	10/A-28		-	11	DETAILS SHOWN SIMILAR
225	N	-	-	-	4/A-29	5/A-29		"A"	-	COILING FIRE DOOR
226	O	-	-	-	1/A-29	2/A-29	22	"A"	-	COILING FIRE DOOR
227	O	-	-	-	1/A-29	2/A-29	6/A-29	"A"	-	COILING FIRE DOOR
228	O	-	-	-	1/A-29	2/A-29	6/A-29	"A"	-	COILING FIRE DOOR
229	O	-	-	-	1/A-29	2/A-29	6/A-29	"A"	-	COILING FIRE DOOR
FOURTH FLOOR										
129	AF-96								2	ALUM DOORS & FRAME
130	A	SINGLE	-	HMF-3		2/A-28		"B"	4	
131	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
132	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
133	A	SINGLE	-	AF-97				-	3	ALUM FRAME
134	A	SINGLE	-	AF-101				-	3	ALUM FRAME
135	A	SINGLE	-	AF-101				-	3	ALUM FRAME
136	A	SINGLE	-	AF-104				-	3	ALUM FRAME
137	A	SINGLE	-	AF-104				-	3	ALUM FRAME
138	A	SINGLE	-	AF-104				-	3	ALUM FRAME
139	E	PAIR	-	HMF-7	-	2/A-28		"B"	7	
140	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
141	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
142	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
143	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
144	A	SINGLE	-	HMF-1	-	1/A-28		-	3	
FIFTH FLOOR										
145	AF-111								2	ALUM DOORS & FRAME
146	A	SINGLE	-	HMF-3	-	2/A-28		"B"	4	
147	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
148	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
149	A	SINGLE	-	AF-113				-	3	ALUM FRAME
150	A	SINGLE	-	AF-116				-	3	ALUM FRAME
151	A	SINGLE	-	AF-116				-	3	ALUM FRAME
152	A	SINGLE	-	AF-119				-	3	ALUM FRAME
153	A	SINGLE	-	AF-119				-	3	ALUM FRAME
154	A	SINGLE	-	AF-119				-	3	ALUM FRAME
155	E	PAIR	-	HMF-7	-	2/A-28		"B"	7	
156	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
157	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
158	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
SIXTH FLOOR										
159	AF-128								2	ALUM DOORS & FRAME
160	A	SINGLE	-	HMF-3	-	2/A-28		"B"	4	
161	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
162	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	

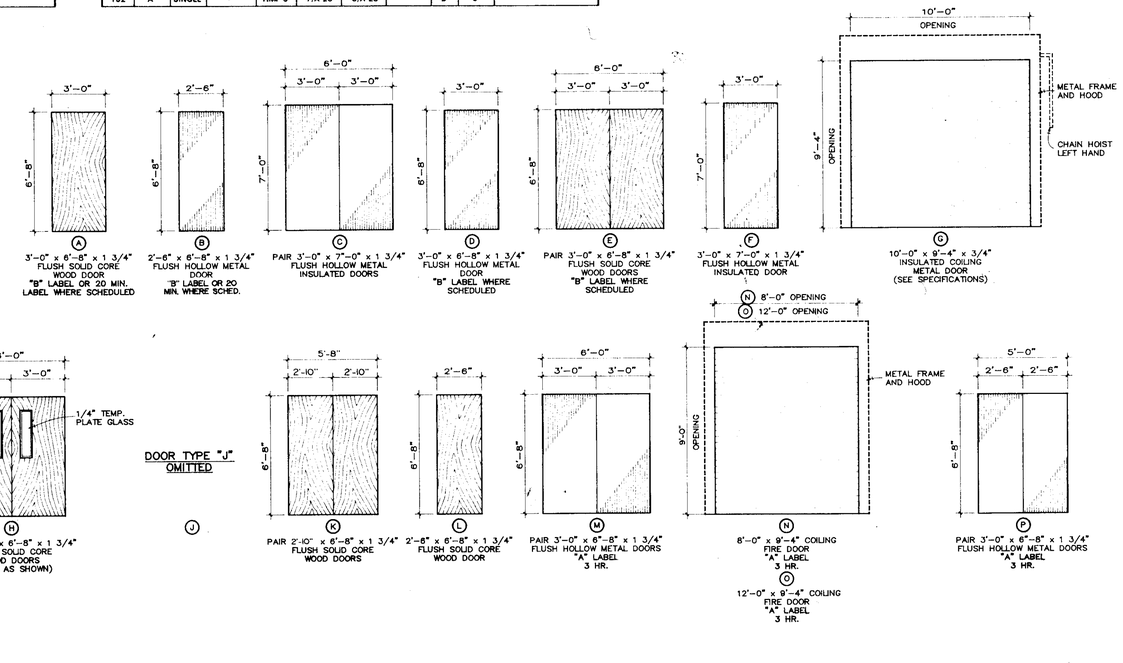
DOOR SCHEDULE

OPNG NMBR	DOOR TYPE	DOOR NMBR	DOOR THRESH	DOOR FRAME	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	LBL	HDWE SET	REMARKS
163	A	SINGLE	-	AF-130				-	3	ALUM FRAME
164	A	SINGLE	-	AF-133				-	3	ALUM FRAME
165	A	SINGLE	-	AF-133				-	3	ALUM FRAME
166	A	SINGLE	-	AF-136				-	3	ALUM FRAME
167	A	SINGLE	-	AF-136				-	3	ALUM FRAME
168	A	SINGLE	-	AF-136				-	3	ALUM FRAME
169	E	PAIR	-	HMF-7	-	2/A-28		"B"	7	
170	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
171	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
172	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
SEVENTH FLOOR										
173	AF-145								2	ALUM DOORS & FRAME
174	A	SINGLE	-	HMF-3	-	2/A-28		"B"	4	
175	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
176	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
177	A	SINGLE	-	AF-147				-	3	ALUM FRAME
178	A	SINGLE	-	AF-150				-	3	ALUM FRAME
179	A	SINGLE	-	AF-150				-	3	ALUM FRAME
180	A	SINGLE	-	AF-153				-	3	ALUM FRAME
181	A	SINGLE	-	AF-153				-	3	ALUM FRAME
182	A	SINGLE	-	AF-153				-	3	ALUM FRAME
183	E	PAIR	-	HMF-7	-	2/A-28		"B"	7	
184	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
185	A	SINGLE	-	HMF-1	-	13/A-28		-	15	
186	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
EIGHTH FLOOR										
187	AF-162								2	ALUM DOORS & FRAME
188	A	SINGLE	-	HMF-3	-	2/A-28		"B"	4	
189	A	SINGLE	-	HMF-1	-	1/A-28		20M	4	
190	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
191	AF-163								1	ALUM DOORS & FRAME
192	AF-165								1	ALUM DOOR & FRAME
193	A	SINGLE	-	HMF-1	-	1/A-28		20M	5	
194	B	SINGLE	-	HMF-2	-	1/A-28		20M	4	
195	A	SINGLE	-	HMF-1	-	1/A-28		20M	5	
196	E	PAIR	-	HMF-8				-	8	
197	AF-168								1	ALUM DOORS & FRAME
198	A	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	9	
199	E	PAIR	-	HMF-13	7/A-28	8/A-28		"B"	7	
200	AF-169								1	ALUM DOORS & FRAME
201	A	SINGLE	-	HMF-1	-	1/A-28		20M	3	
202	E	PAIR	-	HMF-8	-	1/A-28		-	11	
203	E	PAIR	-	HMF-8	-	1/A-28		-	11	
204	E	PAIR	-	HMF-8	-	1/A-28		-	11	
205	A	SINGLE	-	HMF-1	-	1/A-28		20M	3	
206	E	PAIR	-	HMF-8	-	1/A-28		20M	11	
207	E	PAIR	-	HMF-8	-	1/A-28		20M	11	
208	E	PAIR	-	HMF-8	-	1/A-28		20M	11	
209	E	PAIR	-	HMF-8	-	1/A-28		20M	11	
ELEVATOR EQUIPMENT FLOOR (NINTH FLOOR)										
210	D	SINGLE	-	HMF-6	7/A-28	8/A-28		"B"	4	
211	D	SINGLE		HMF-1	-	1/A-28		-	4	
212	F	SINGLE	ALUM	HMF-9	4/A-28	5/A-28		-	4	
MECHANICAL BUILDING										
213	F	SINGLE		HMF-9	14/A-28	15/A-28	6/A-28	-	12	
214	G				16/A-28	17/A-28		-	-	COILING DOOR



hollow metal frame schedule

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



visual door types

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

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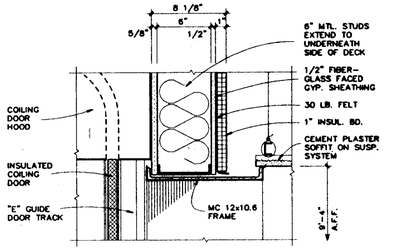
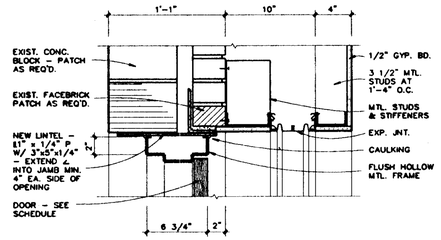


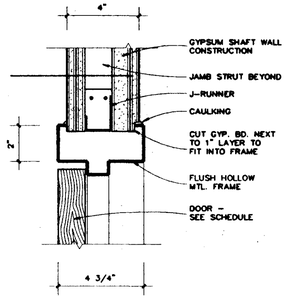
head at coiling door (11)

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



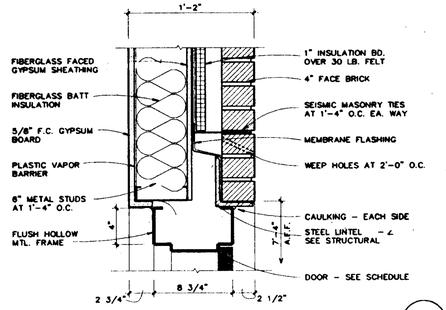
head at existing wall (9)

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



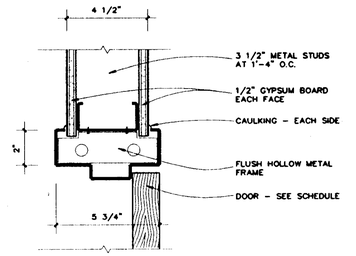
head at shaft wall (7)

SCALE : 3" = 1'-0"



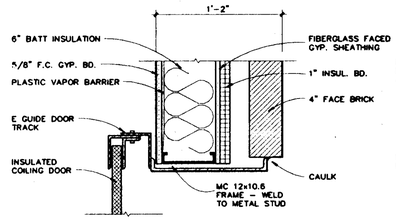
head at exterior door (4)

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



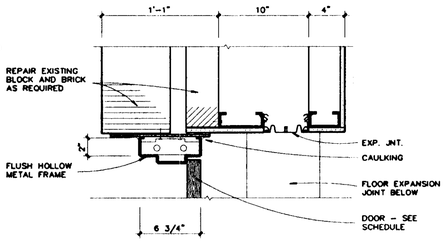
jamb at interior partition (1)

SCALE : 3" = 1'-0"



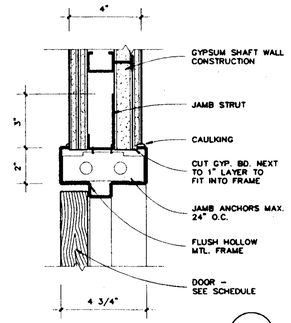
jamb at coiling door (12)

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



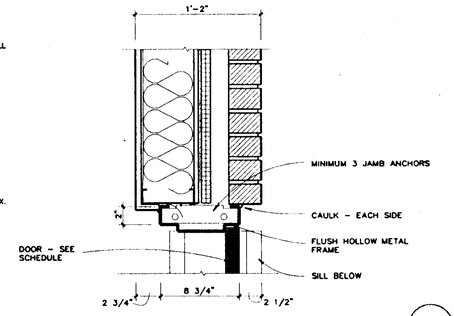
jamb at existing wall (10)

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



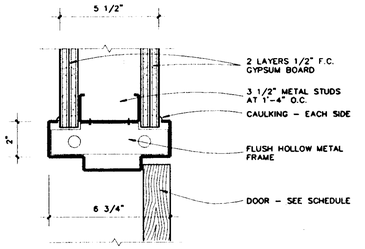
jamb at shaft wall (8)

SCALE : 3" = 1'-0"



jamb at exterior door (5)

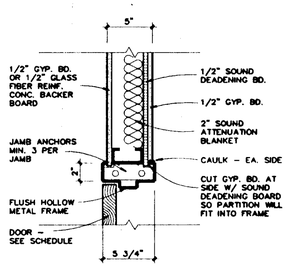
SCALE : 1 1/2" = 1'-0"



jamb at interior partition (2)

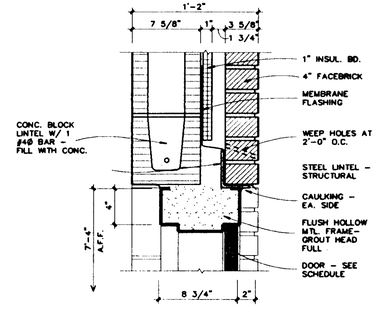
(2 HR. WALL)

SCALE : 3" = 1'-0"



jamb/int. sound part. (13)

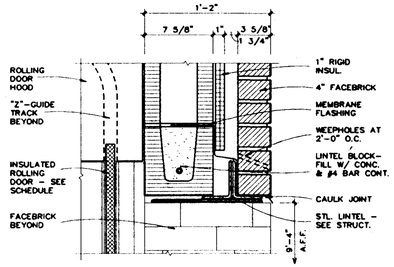
SCALE : 1 1/2" = 1'-0"



head at exterior wall (14)

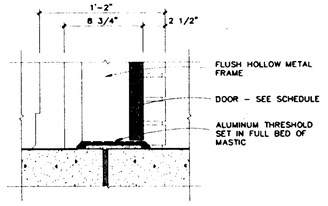
(MECH. BLDG.)

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



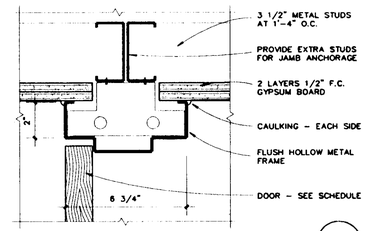
head at rolling door (16)

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



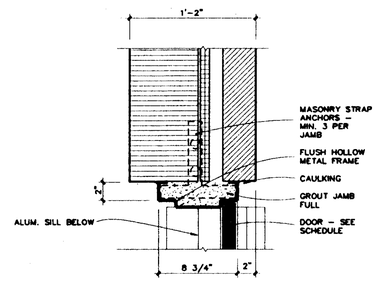
sill at exterior door (6)

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



jamb at interior partition (3)

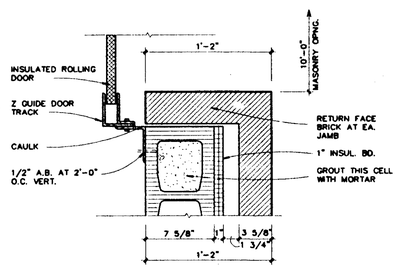
SCALE : 3" = 1'-0"



jamb at exterior wall (15)

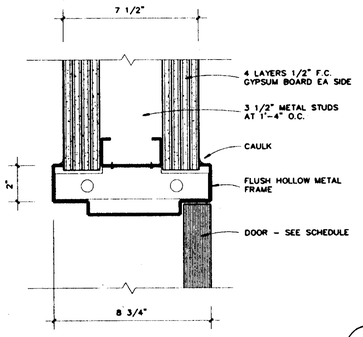
(MECH. BLDG.)

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



jamb at rolling door (17)

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



jamb at 4 hour wall (18)

SCALE : 3" = 1'-0"

door details

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Brackett Krennerich and Associates, P.A.

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COMM. NO. 11990
A28
DATE: SEPT. 15, 1991

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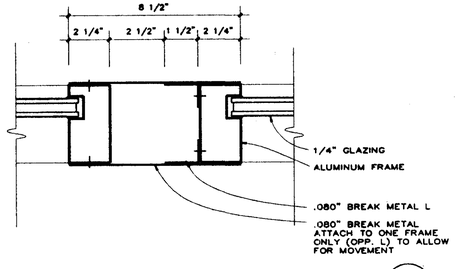
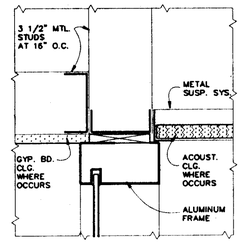
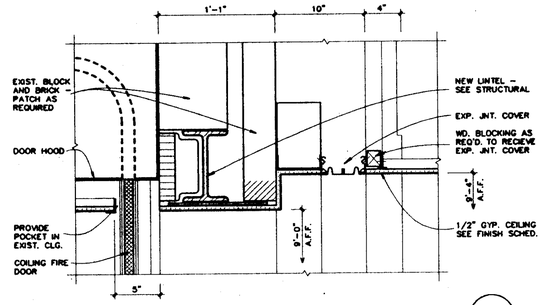


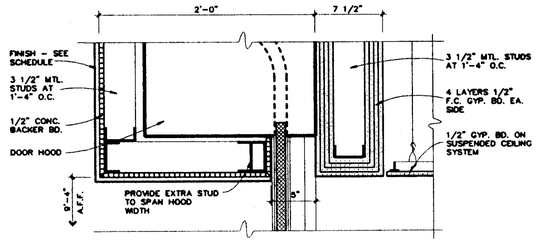
detail at expansion joint (6)
(AF-18)
SCALE : 3" = 1'-0"



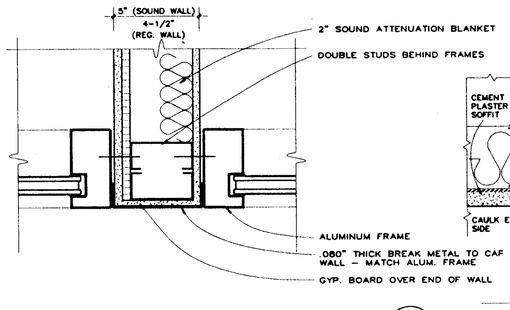
interior frame head (14)
SCALE : 3" = 1'-0"



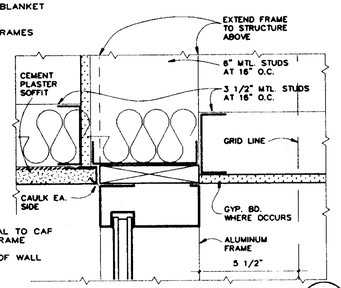
head at ceiling fire door (4)
SCALE : 1 1/2" = 1'-0"



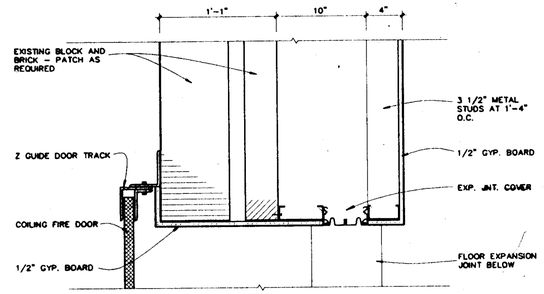
head at ceiling fire door (1)
SCALE : 1 1/2" = 1'-0"



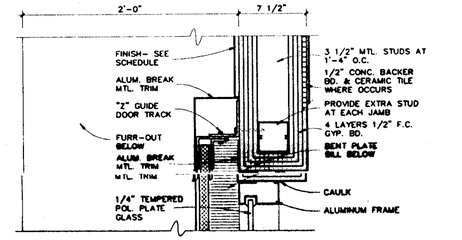
detail at intersecting partition (7)
SCALE : 3" = 1'-0"



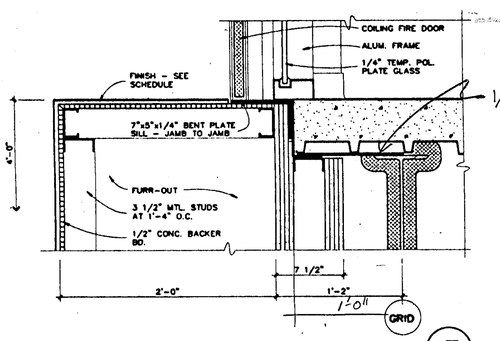
exterior frame head (15)
SCALE : 3" = 1'-0"



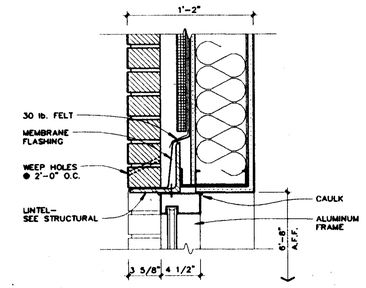
jamb at ceiling fire door (5)
SCALE : 1 1/2" = 1'-0"



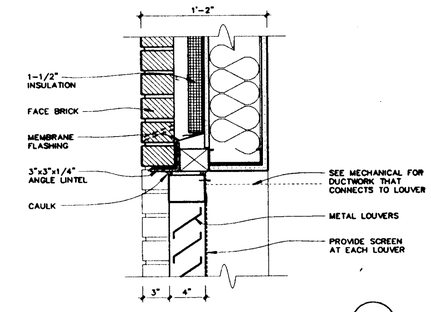
jamb at ceiling fire door (2)
SCALE : 1 1/2" = 1'-0"



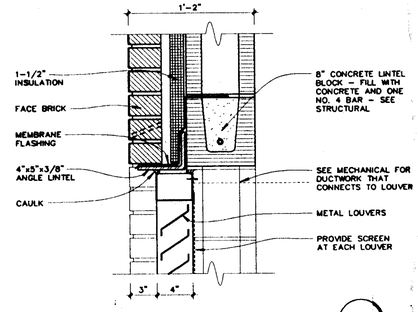
sill at ceiling fire door (3)
SCALE : 1 1/2" = 1'-0"



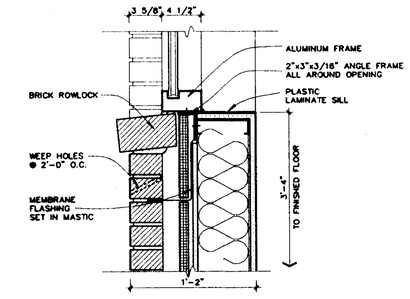
head at aluminum frame (12)
SCALE : 1 1/2" = 1'-0"



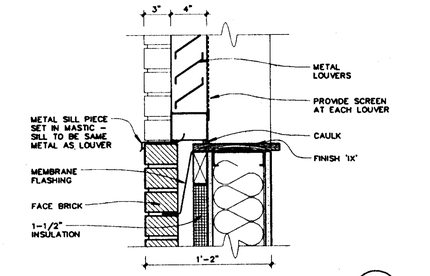
head at louver (10)
SCALE : 1 1/2" = 1'-0"



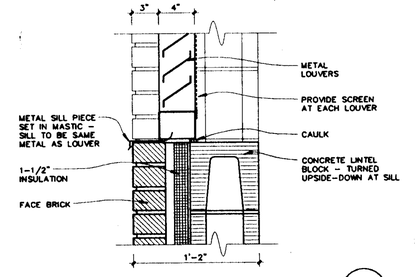
head at louver (8)
SCALE : 1 1/2" = 1'-0"



sill at aluminum frame (13)
SCALE : 1 1/2" = 1'-0"

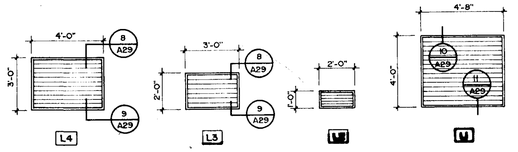


jamb at louver (11)
SCALE : 1 1/2" = 1'-0"



sill at louver (9)
SCALE : 1 1/2" = 1'-0"

aluminum frame details



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

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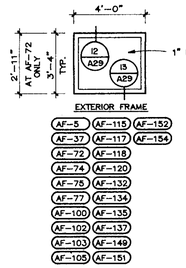
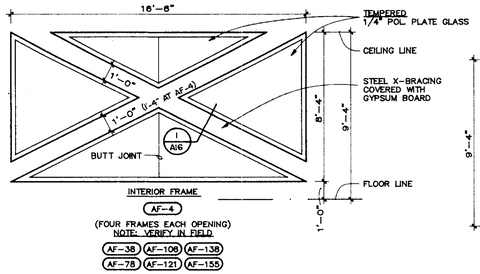
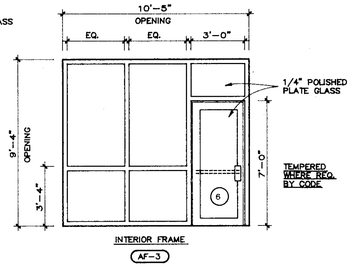
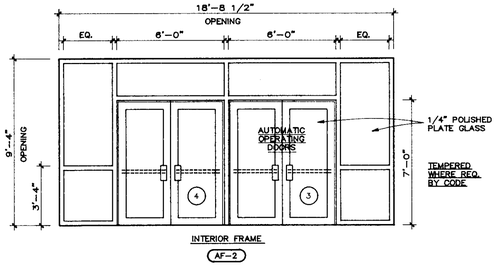
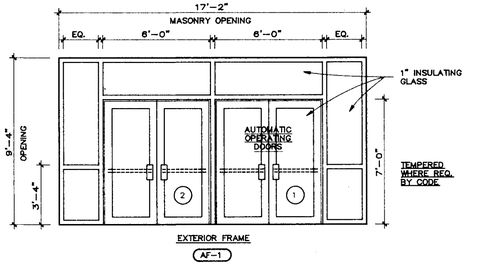
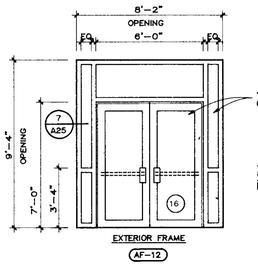


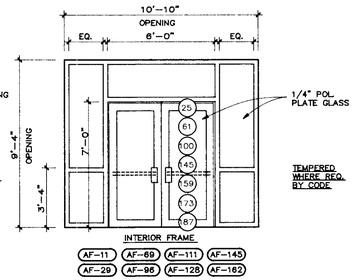


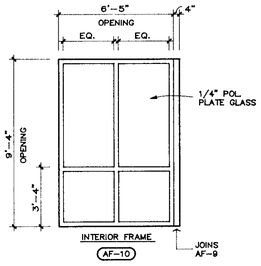


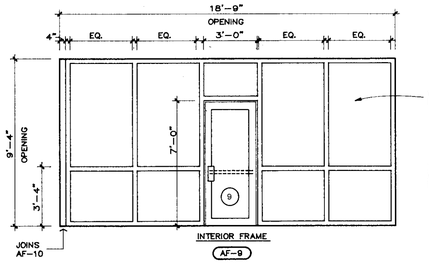


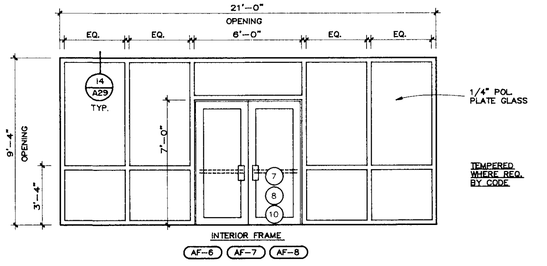


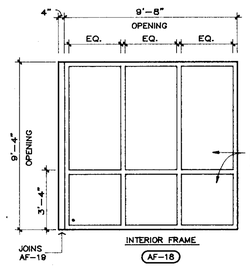


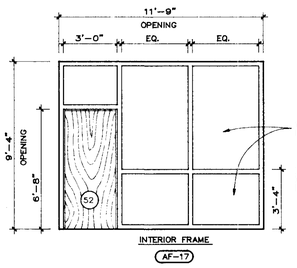


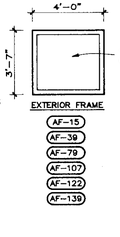


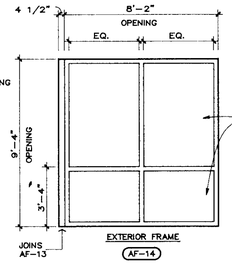


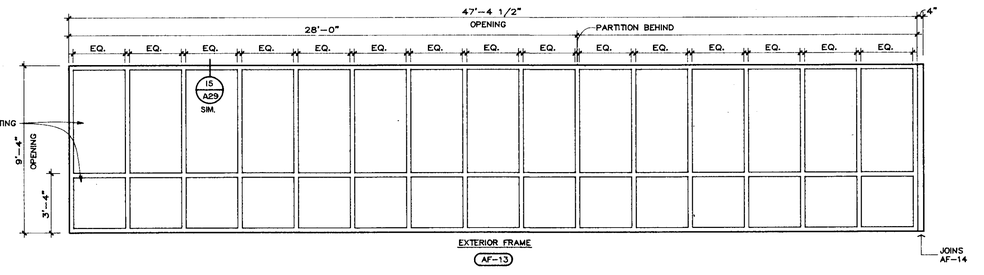


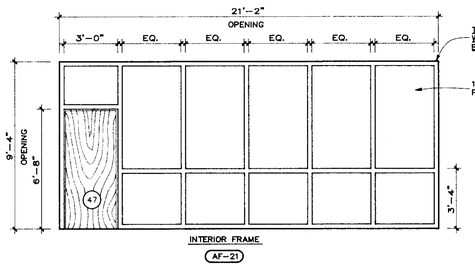


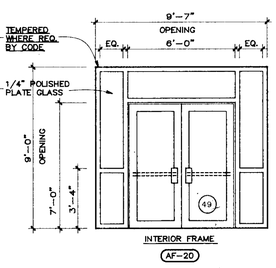


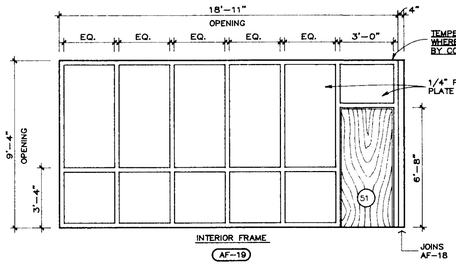


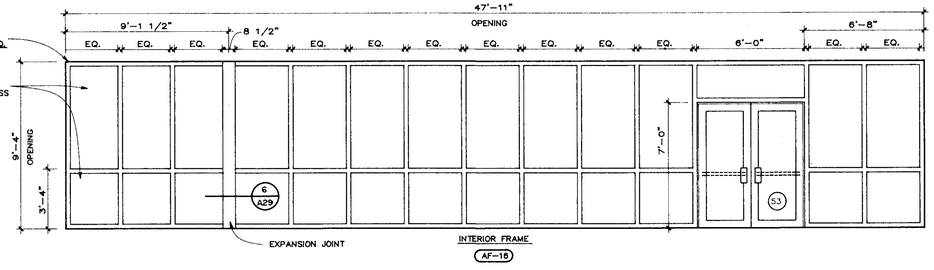


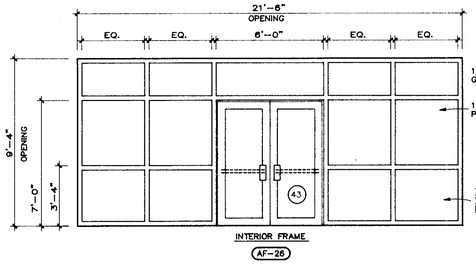




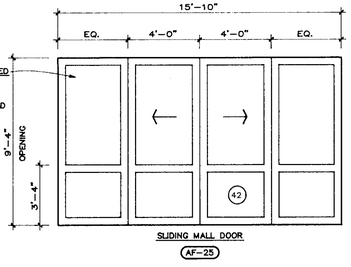


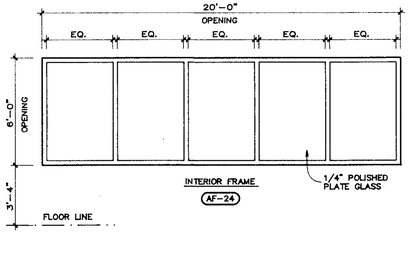


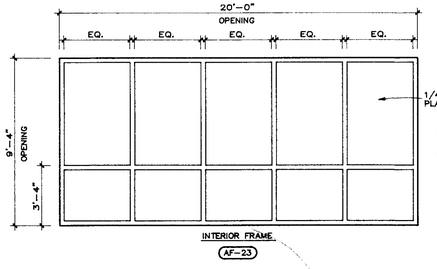


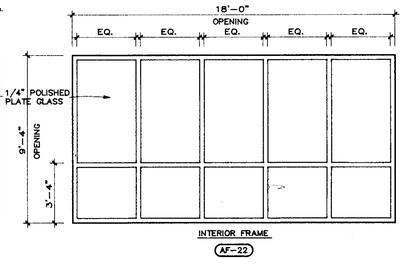


NOTE: THIS FRAME COLOR "WHITE"









aluminum frame schedule

NOTE: VERIFY ALL DIMENSIONS IN THE FIELD

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

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aluminum frame schedule

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DATE: SEPT. 15, 1991

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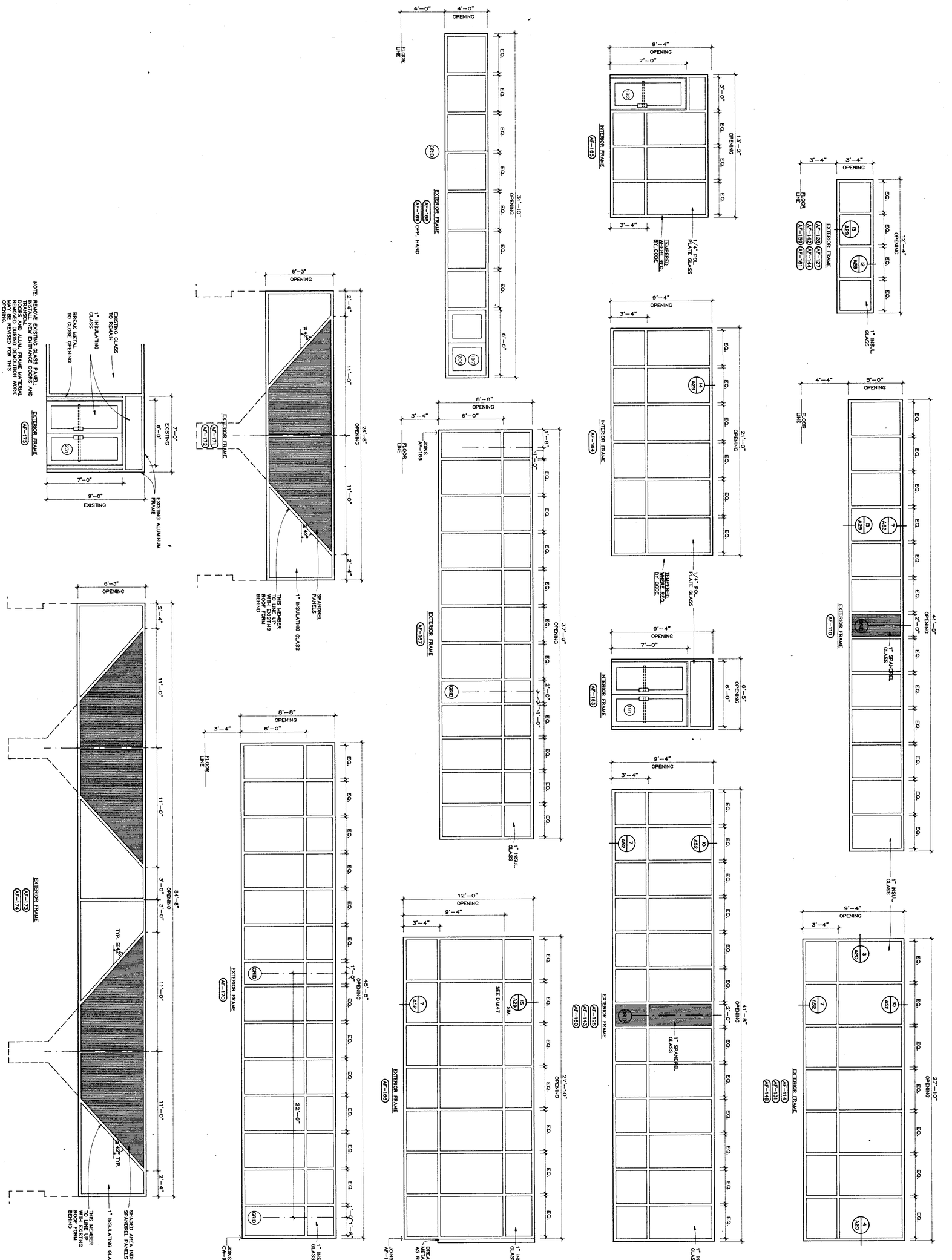

aluminum frame schedule

NOTE: VERIFY ALL DIMENSIONS IN THE FIELD.

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

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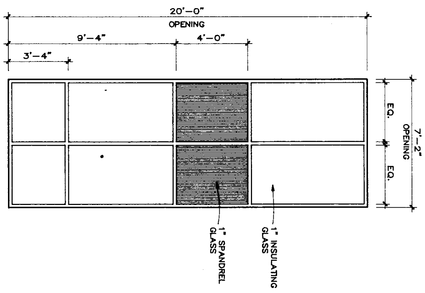
curtain wall schedule

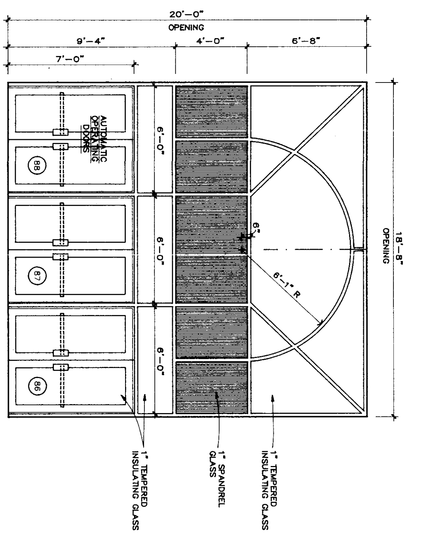
NOTE: VERIFY ALL DIMENSIONS IN THE FIELD.

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



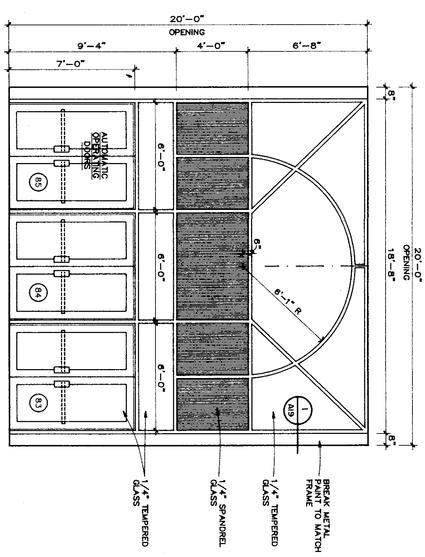
EXTERIOR FRAME (CW-1)

NOTE: THESE FRAMES COLOR "WHITE"



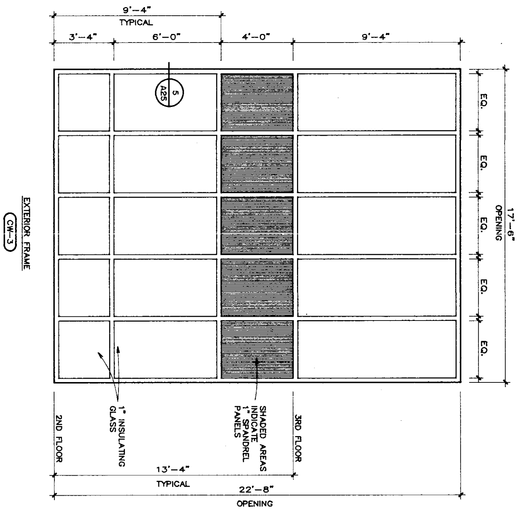
EXTERIOR FRAME (CW-5)

NOTE: THIS FRAME COLOR "WHITE"

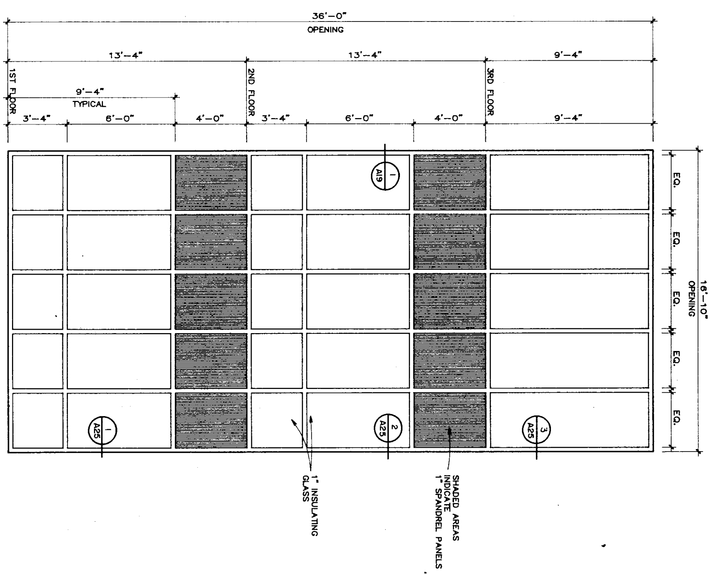


INTERIOR FRAME (CW-4)

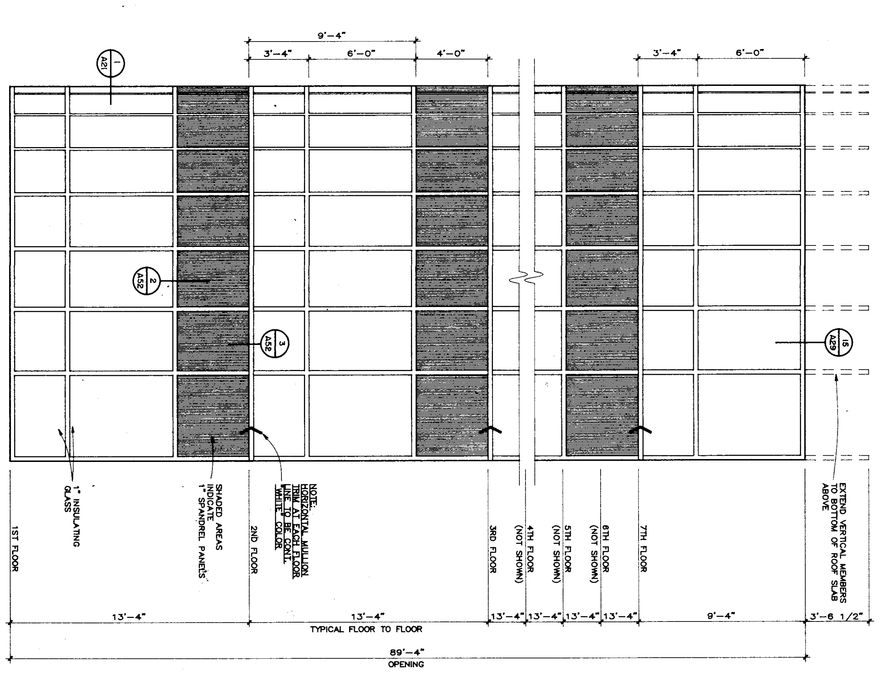
NOTE: THIS FRAME COLOR "WHITE"



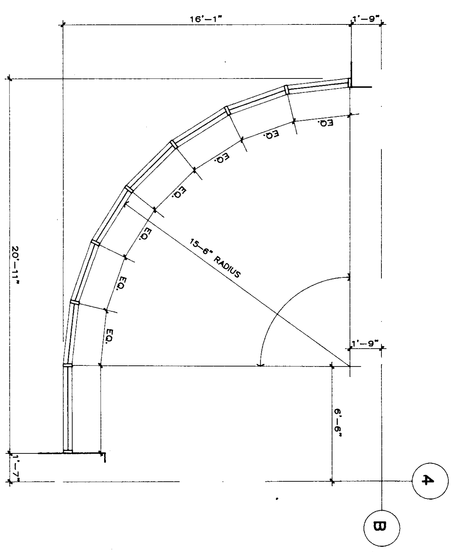
EXTERIOR FRAME (CW-3)



EXTERIOR FRAME (CW-2)



EXTERIOR FRAME (CW-1)



plan at CW-1

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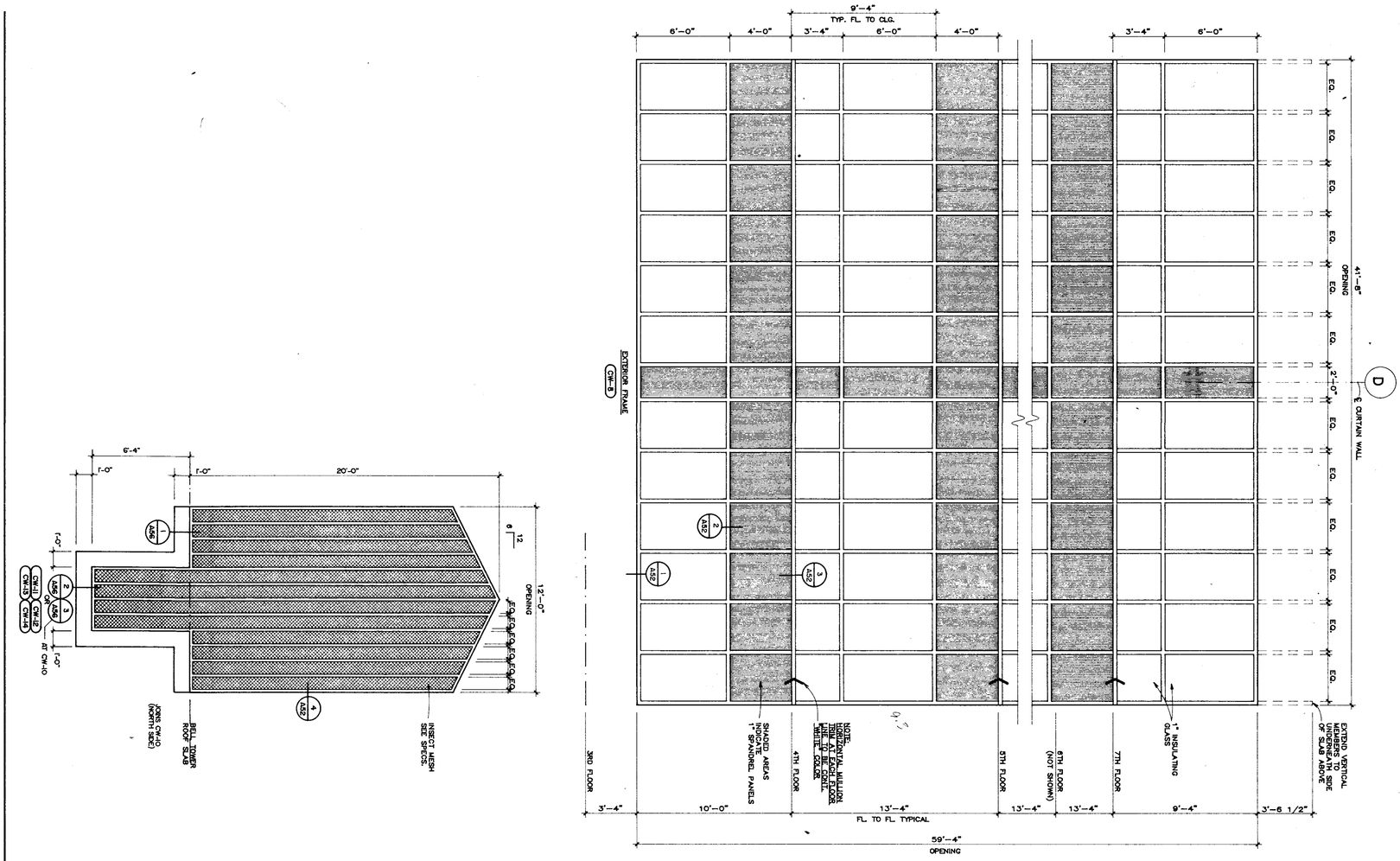

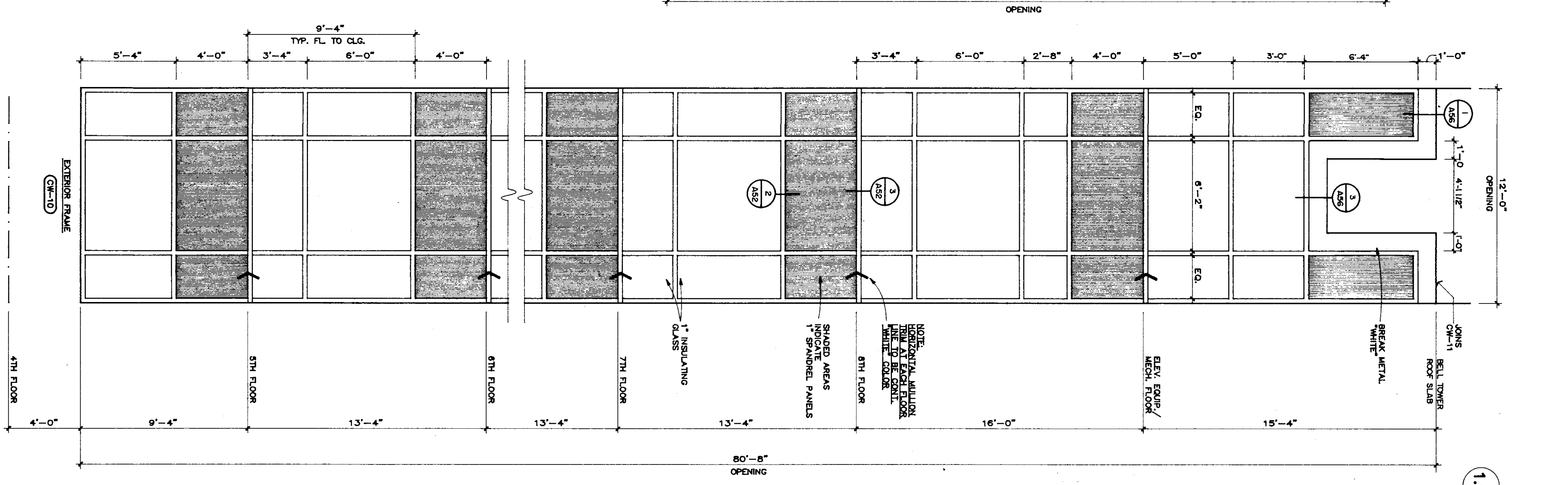

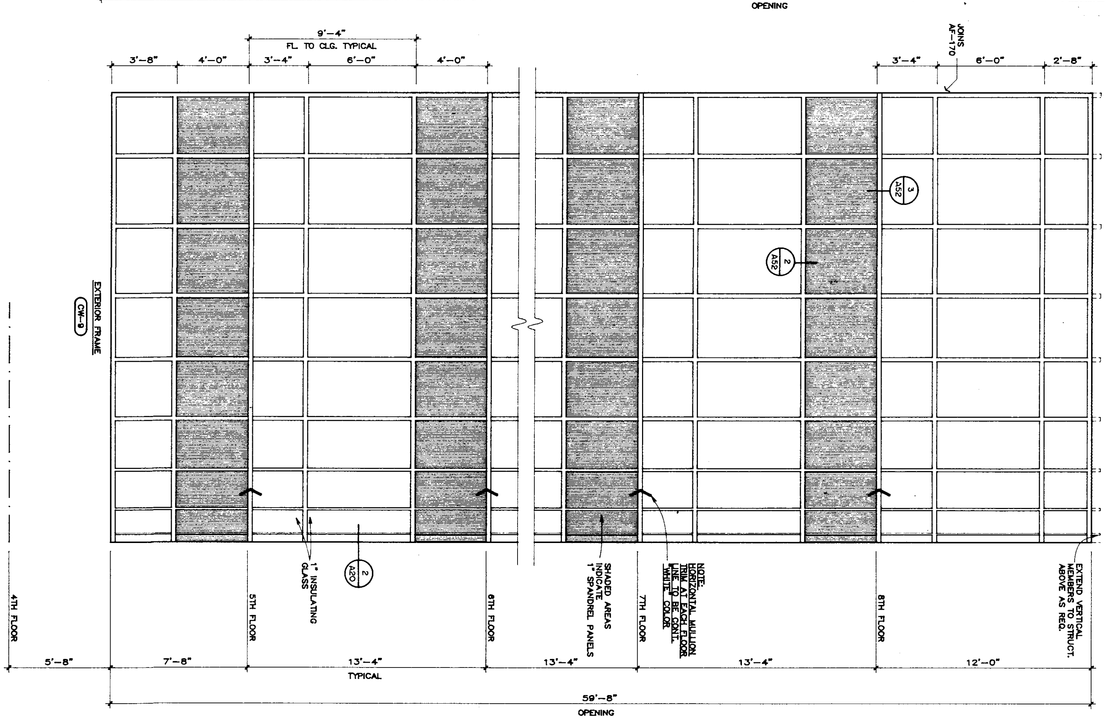

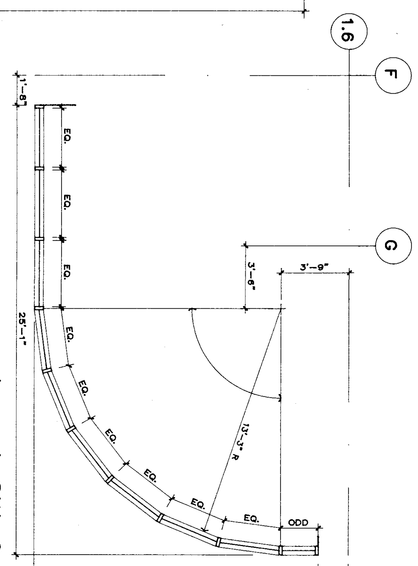

plan at CW-9

curtain wall schedule

NOTE: VERIFY ALL DIMENSIONS IN THE FIELD.

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

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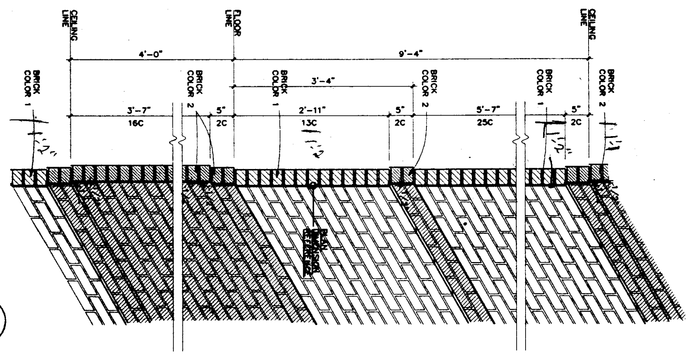
brick pattern
(TYPICAL PANEL)

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

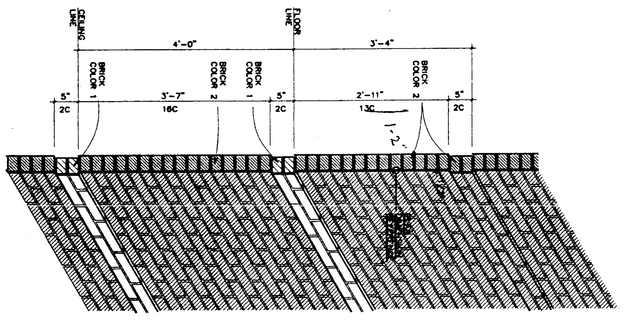
4



brick pattern
(TOWERS)

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

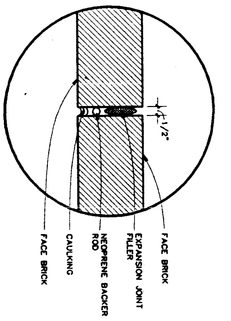
3



exp. joint detail

SCALE : 3" = 1'-0"

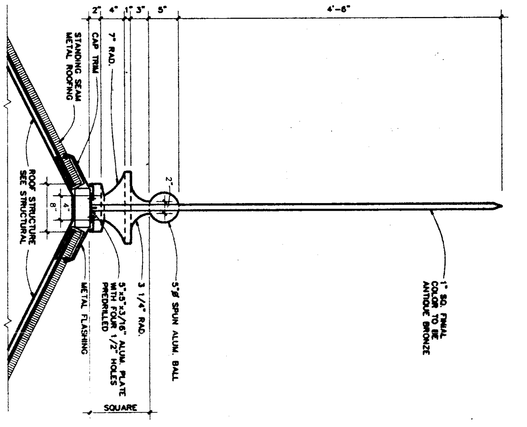
2



section — finial

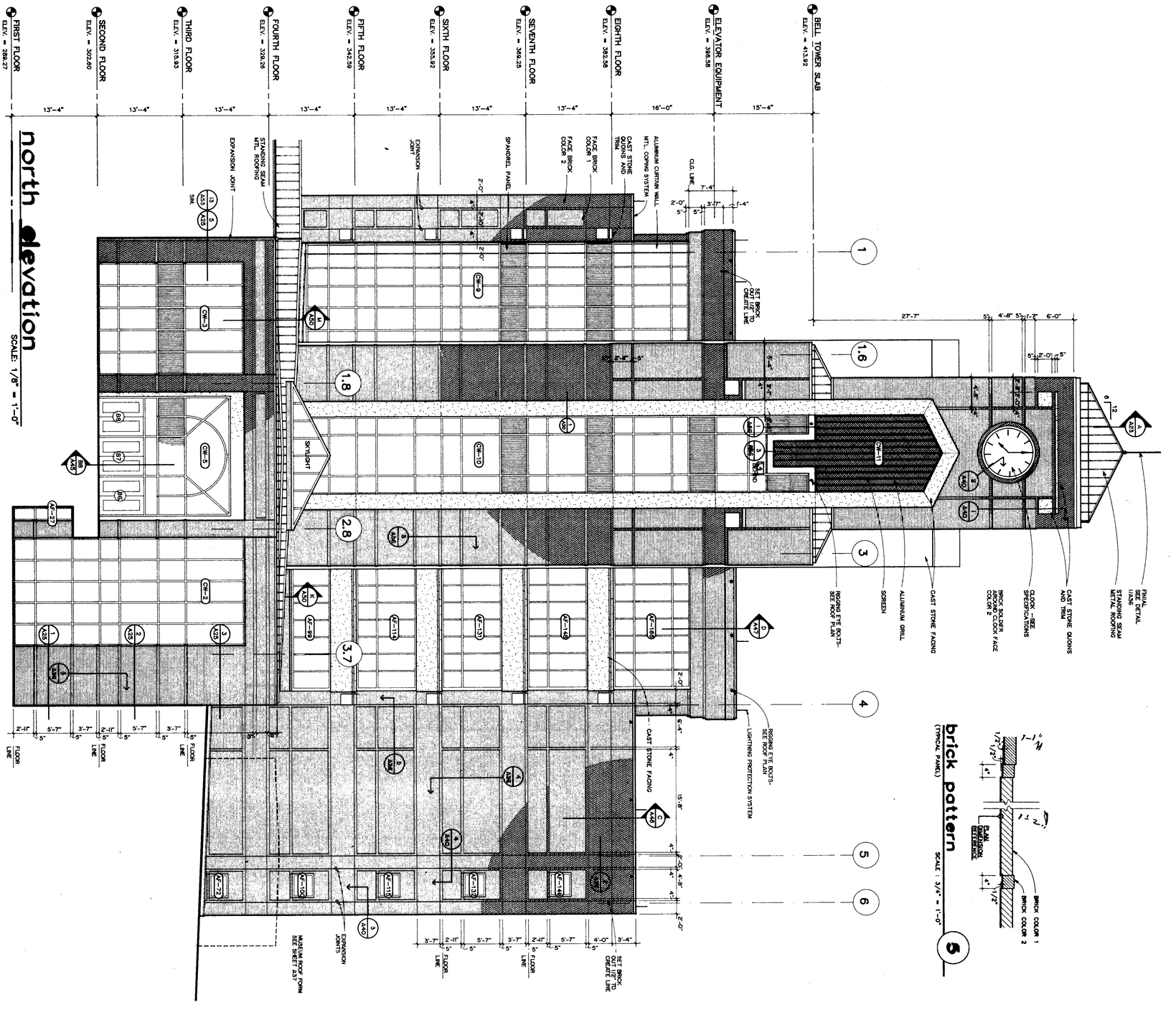
SCALE : 1" = 1'-0"

1



north elevation

SCALE: 1/8" = 1'-0"



brick pattern
(TYPICAL PANEL)

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

5

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elevation at courtyard

(FREE STANDING BEAM) SCALE : 1/8" = 1'-0"

elevation at courtyard

(FREE STANDING BEAM) SCALE : 1/8" = 1'-0"

det. at book drop 1

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

north elevation

EXISTING MUSEUM SCALE: 1/8" = 1'-0"

north elevation

EXISTING LIBRARY SCALE: 1/8" = 1'-0"

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brick pattern 3

(PLAN CORNER QUOIN) SCALE : 3/4" = 1'-0"

brick pattern 2

(CORNER QUOIN) SCALE : 3/4" = 1'-0"

brick pattern 1

(BELL TOWER) SCALE : 3/4" = 1'-0"

east elevation

SCALE: 1/8" = 1'-0"

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east elevation/section (B)

EXISTING MUSEUM

SCALE: 1/8" = 1'-0"

east elevation/section (A)

EXISTING MUSEUM

SCALE: 1/8" = 1'-0"

east elevation

EXISTING LIBRARY

SCALE: 1/8" = 1'-0"

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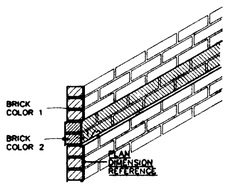
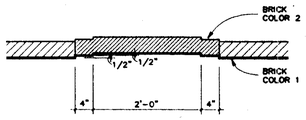
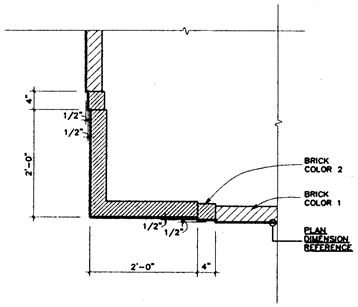


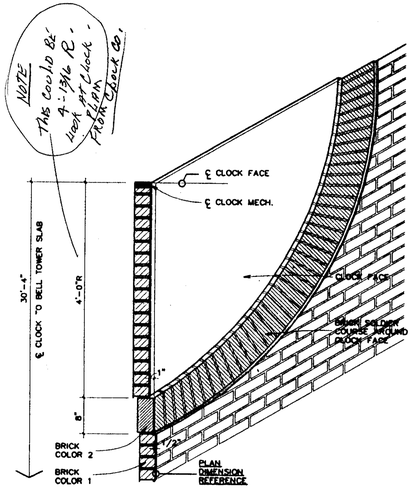
brick pattern 5
SCALE : 3/4" = 1'-0"



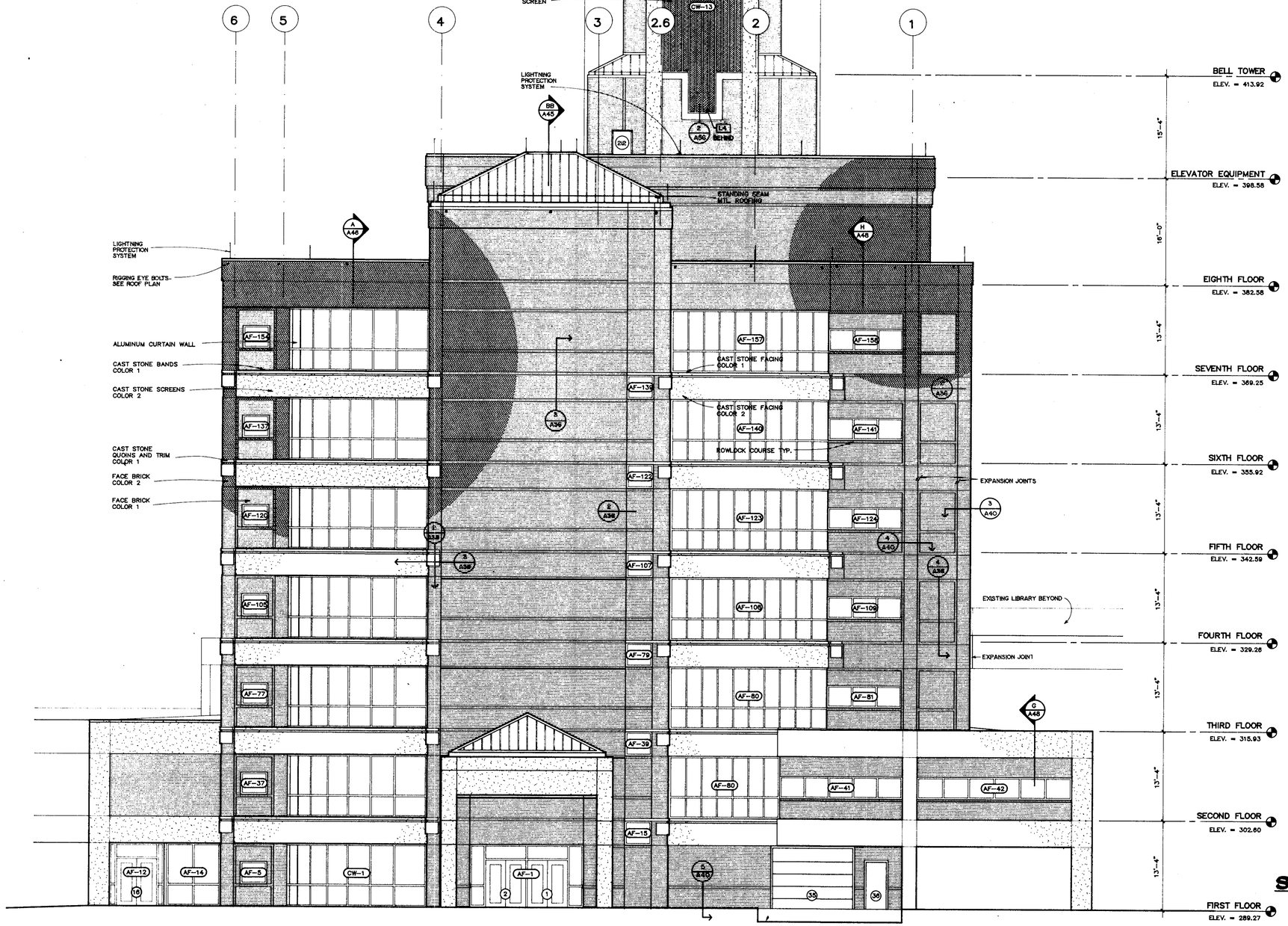
brick pattern 4
SCALE : 3/4" = 1'-0"



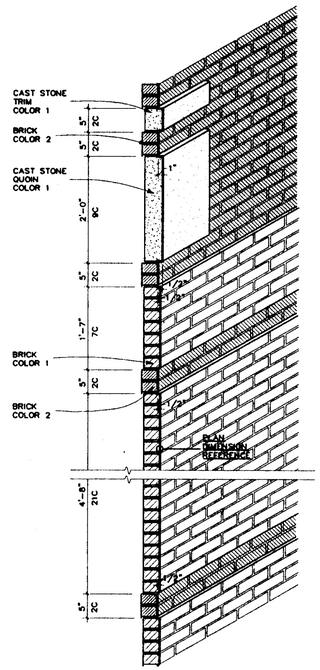
brick pattern 3
(CORNER WITHOUT QUOIN) SCALE : 3/4" = 1'-0"



brick pattern 2
(CLOCK) SCALE : 3/4" = 1'-0"



south elevation
SCALE: 1/8" = 1'-0"



brick pattern 1
(BELL TOWER) SCALE : 3/4" = 1'-0"

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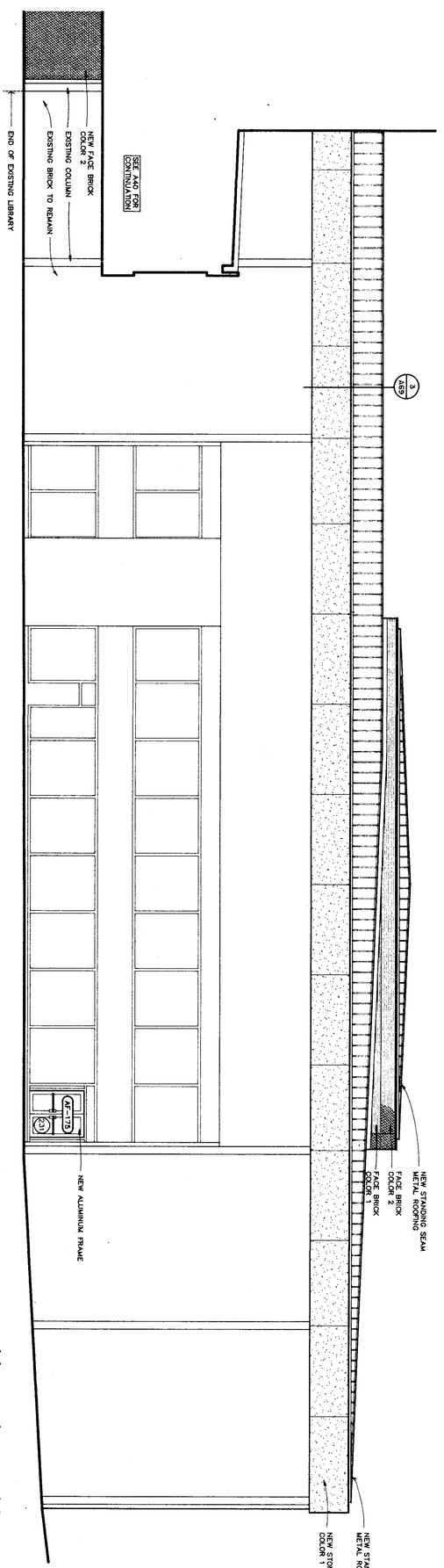
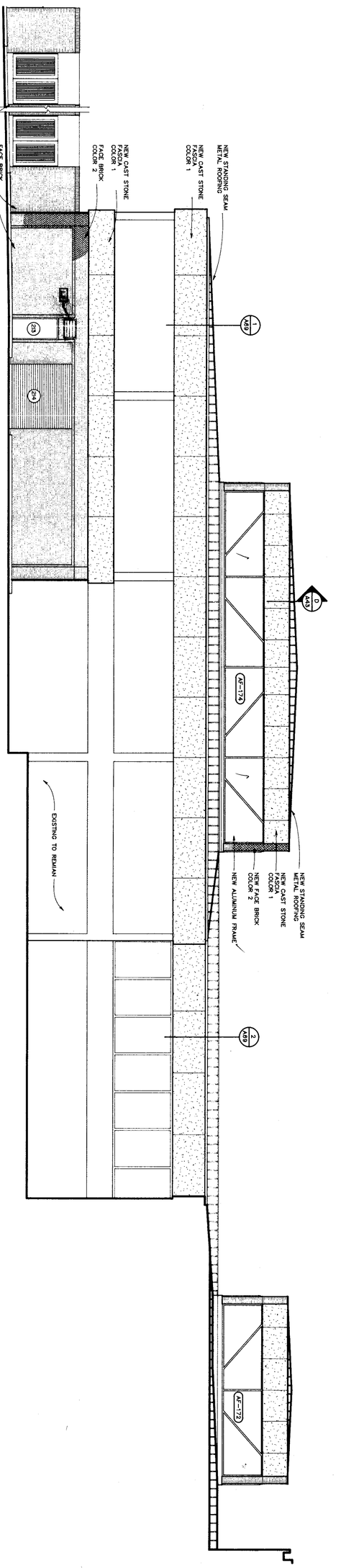


south elevation

EXISTING LIBRARY

SCALE: 1/8" = 1'-0"



south elevation

EXISTING MUSEUM

SCALE: 1/8" = 1'-0"

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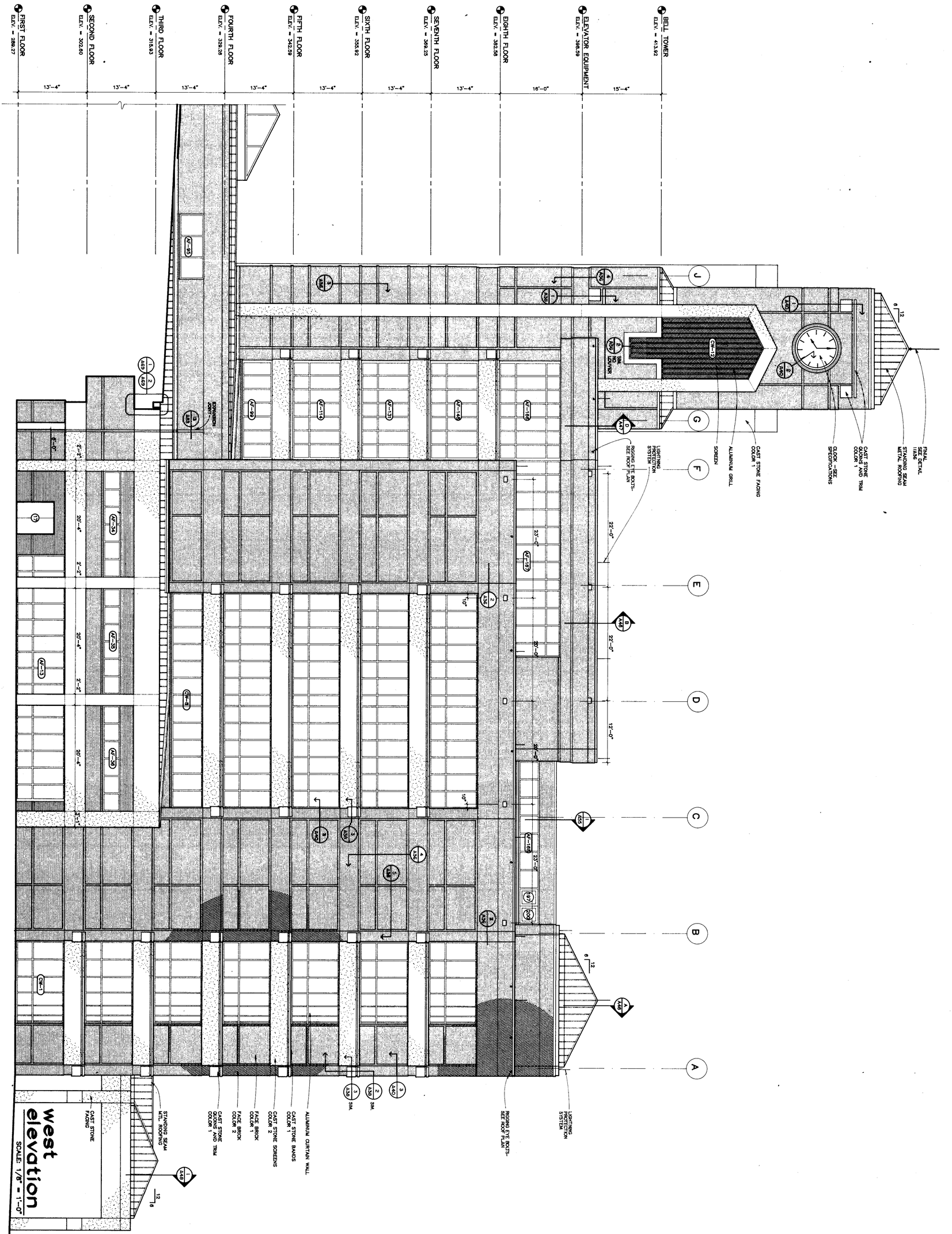

west elevation

SCALE: 1/8" = 1'-0"

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museum skylight end (D)

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

west elevation/section (B)

LOBBY WEST ELEVATION — SCALE: 1/8" = 1'-0"

museum skylight side (C)

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

west elevation/section (A)

EXISTING MUSEUM — SCALE: 1/8" = 1'-0"

west elevation

EXISTING MUSEUM — SCALE: 1/8" = 1'-0"

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building section AA

SCALE : 1/8" = 1'-0"

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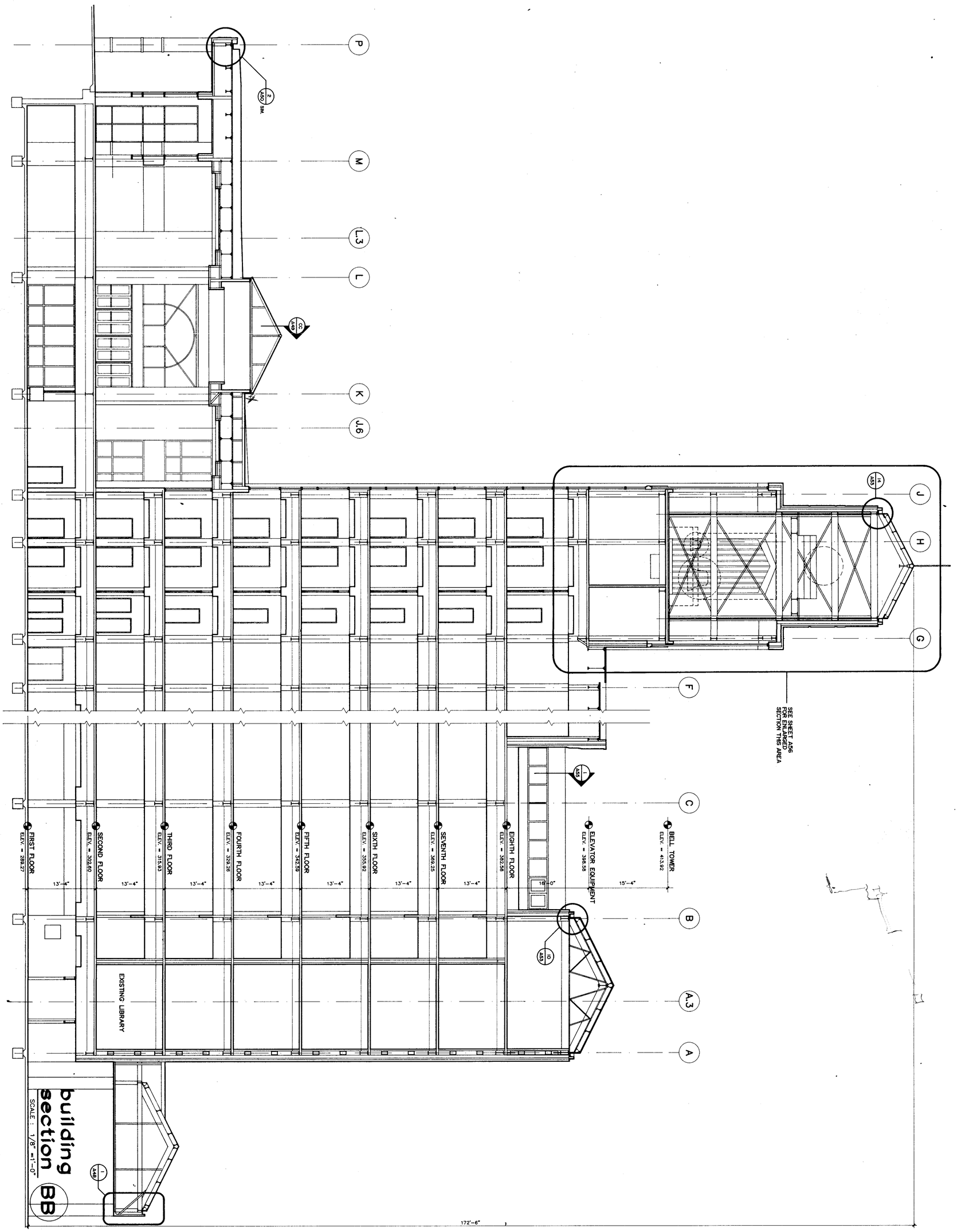

building section BB

SCALE : 1/8" =1'-0"

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wall section C

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

detail at sunscreen 2

(CURVED) SCALE : 1" = 1'-0"

detail at sunscreen 1

(STRAIGHT) SCALE : 1" = 1'-0"

wall section B

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

wall section A

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

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A46

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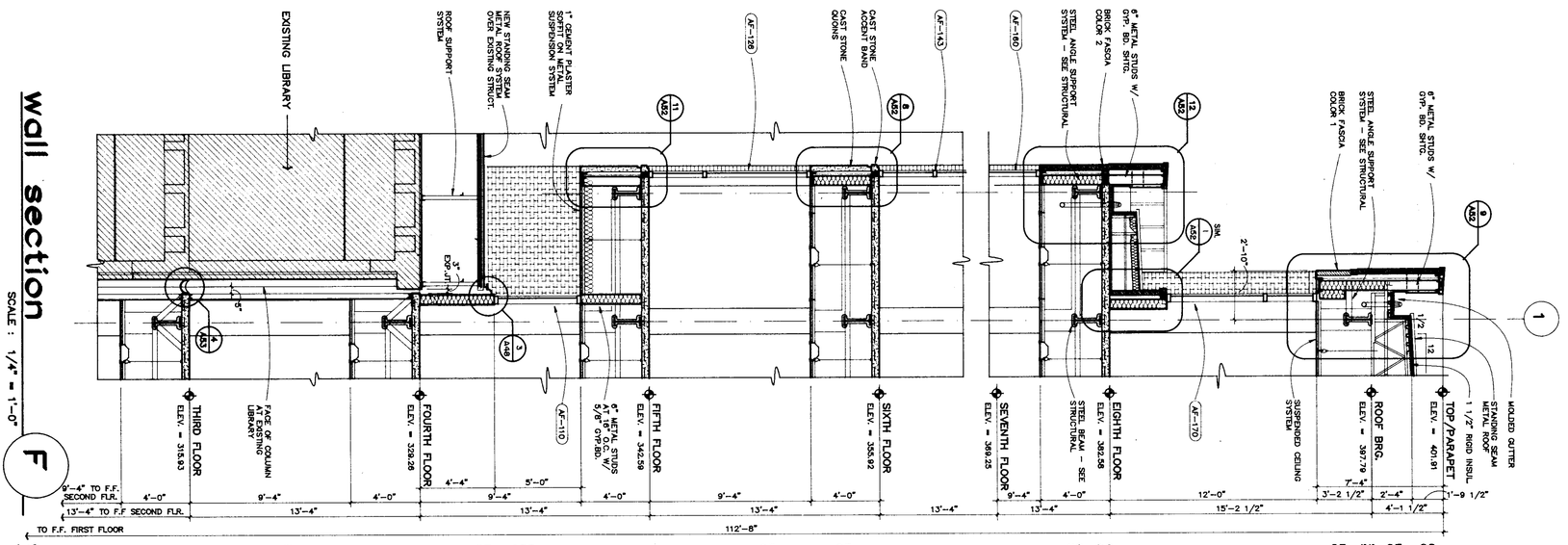

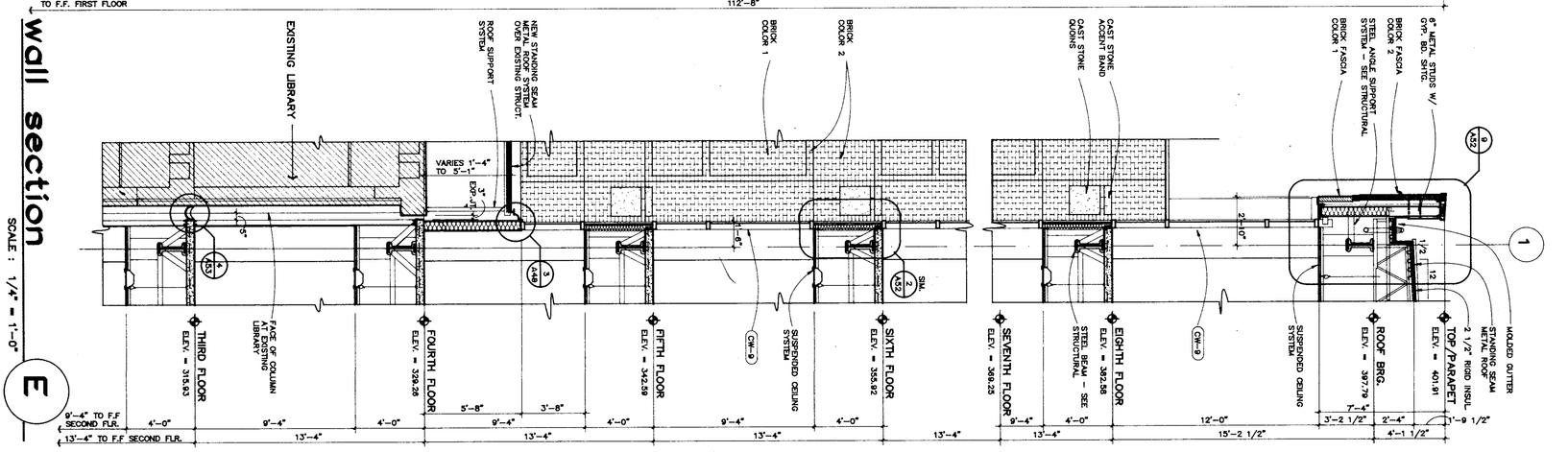

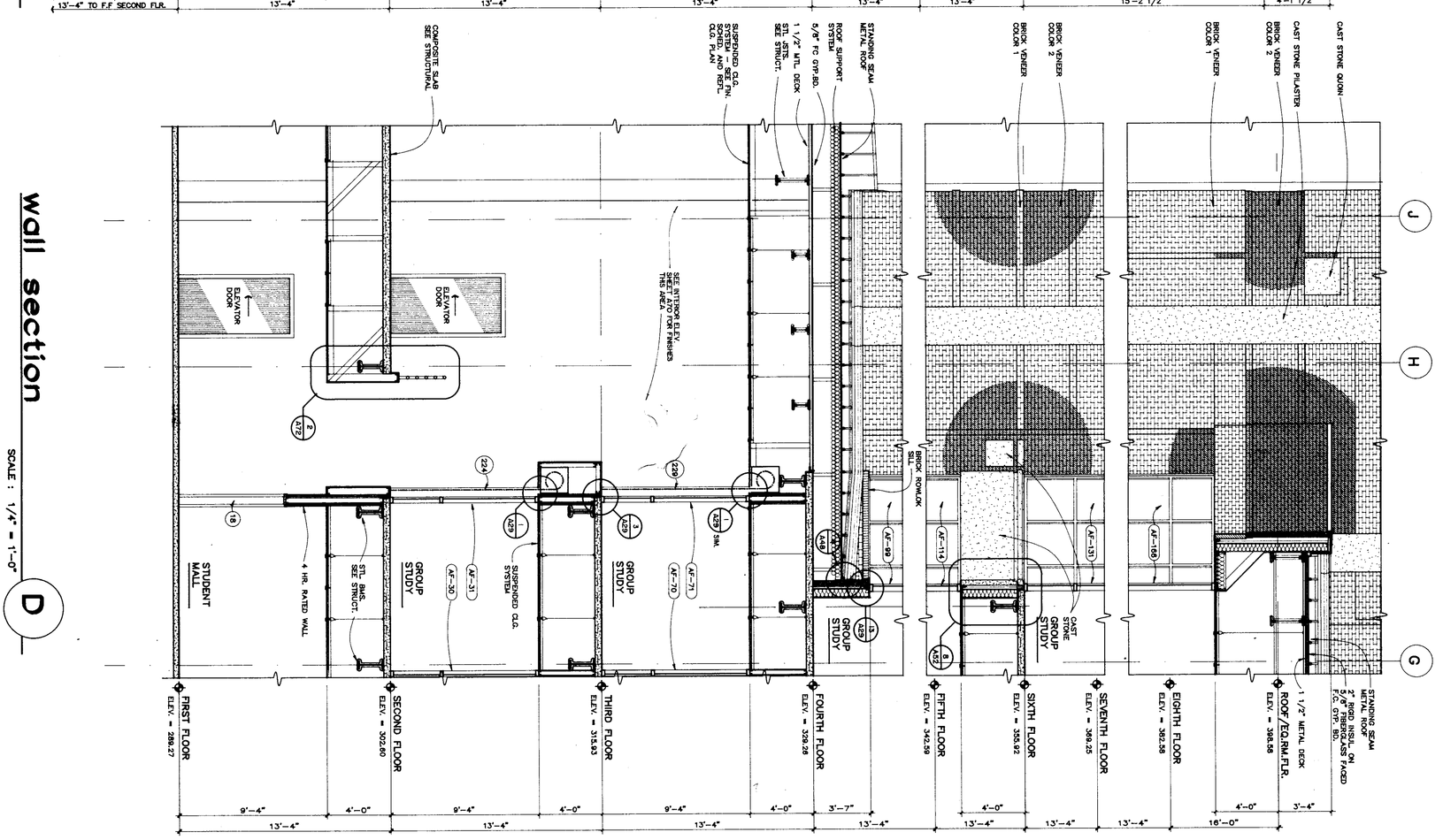

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A47
DATE: SEPT. 15, 1991

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exp. jt. at rake wall 3

SCALE : 3" = 1'-0"

rake wall detail 2

SCALE : 3" = 1'-0"

canopy detail 1

SCALE : 1" = 1'-0"

wall section H

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

flashing detail 4

SCALE : 3" = 1'-0"

wall section G

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

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A48

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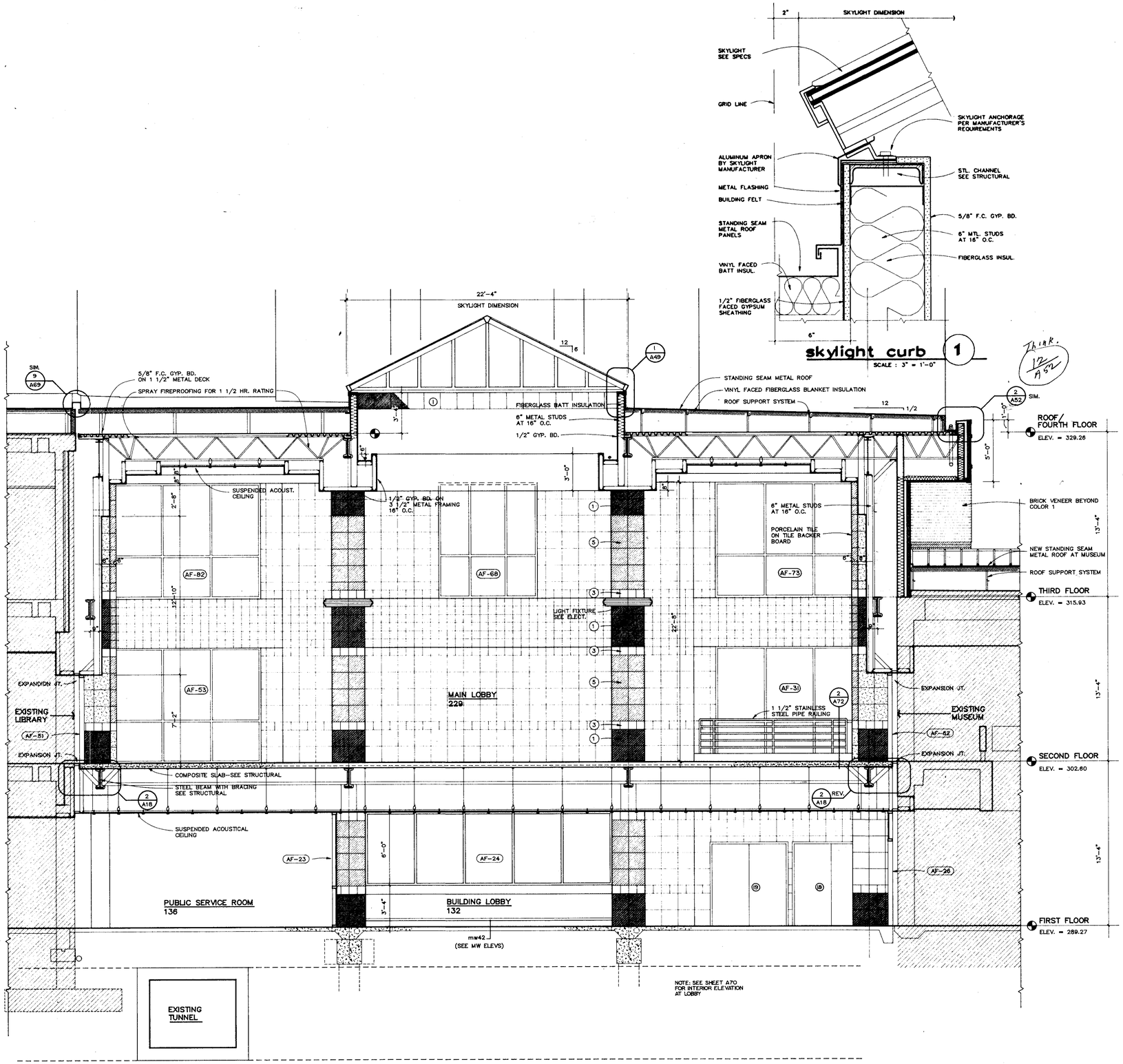

skylight curb 1
SCALE : 3" = 1'-0"

lobby section CC
SCALE : 1/4" = 1'-0"

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A49
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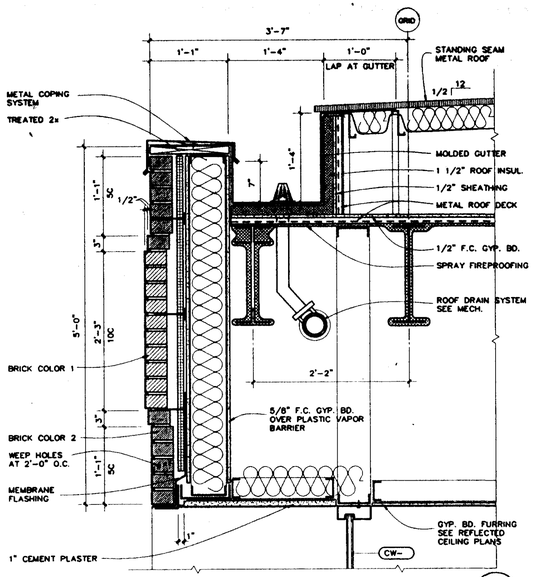
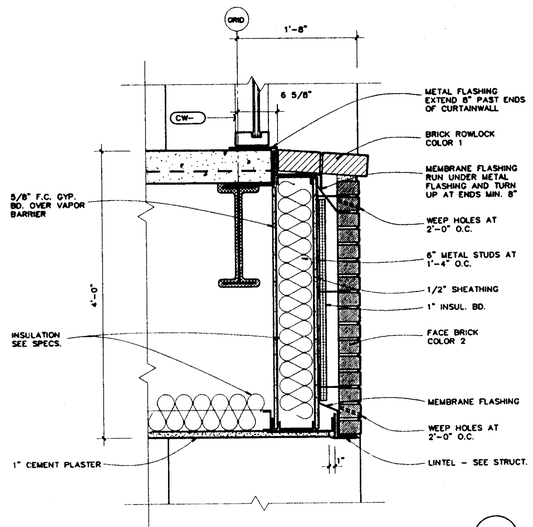


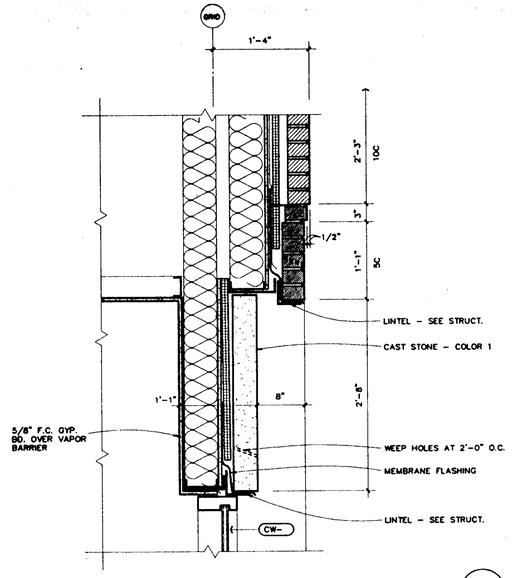
detail at fascia 2

SCALE : 1" = 1'-0"



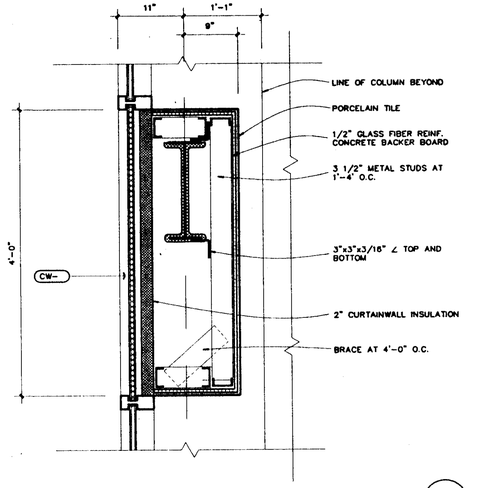
detail at north entry 3

SCALE : 1" = 1'-0"



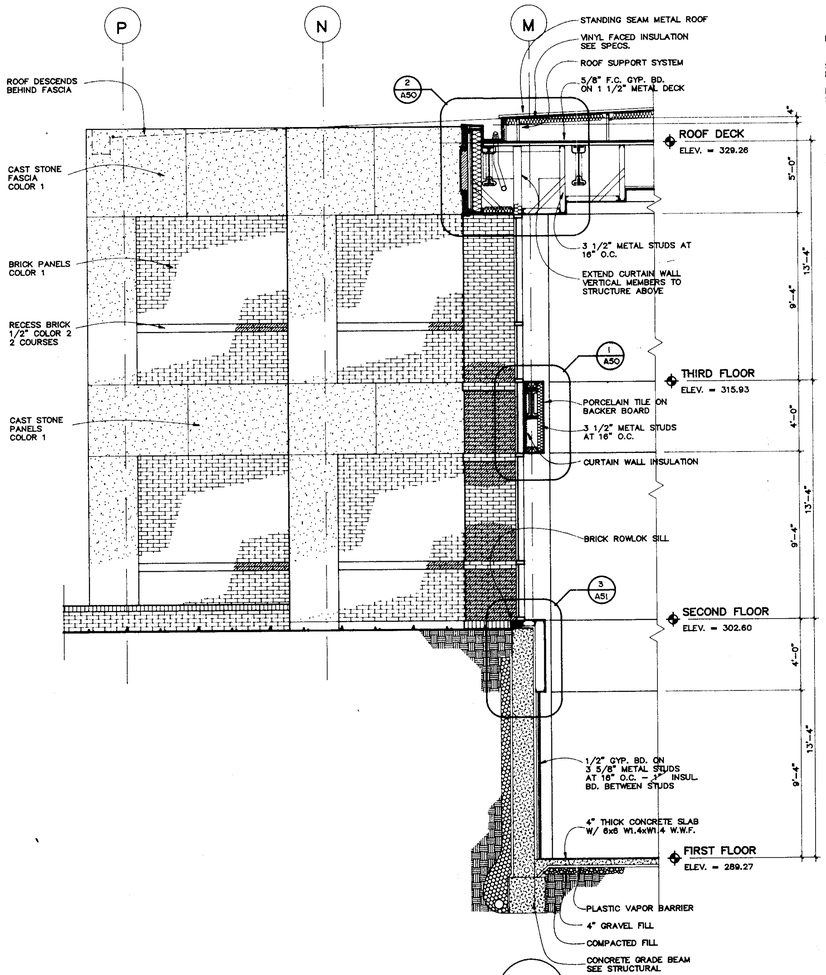
detail at entry 4

SCALE : 1" = 1'-0"



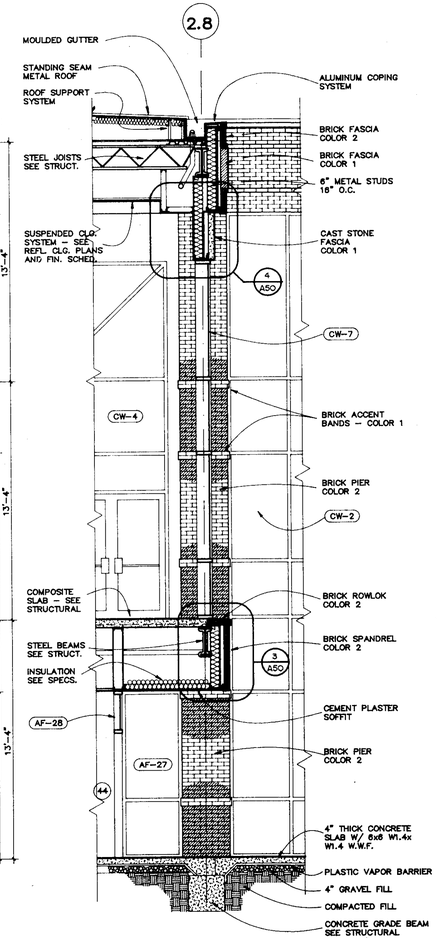
detail at furr out 1

SCALE : 1" = 1'-0"



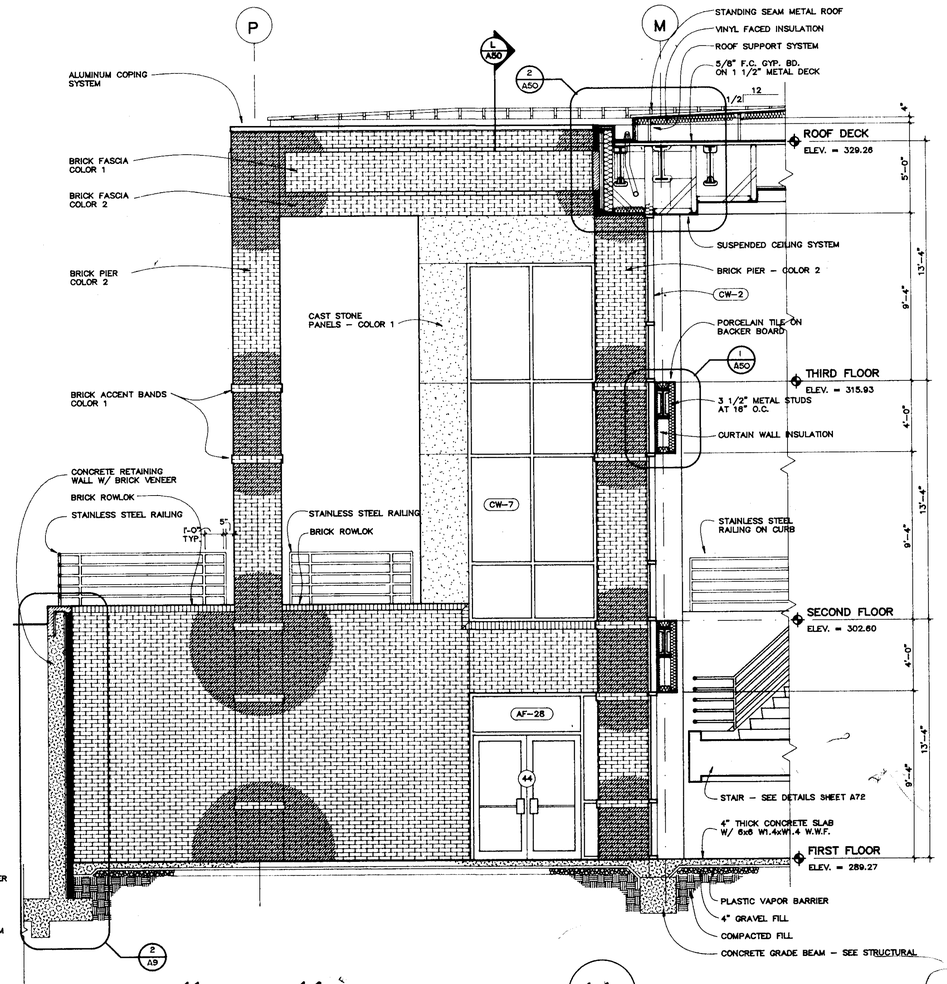
wall section M

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



wall section L

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



wall section K

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

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A50

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Addition, Expansion, Renovation

BRUNING 40-0020 32181

section at museum (V)

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

detail at curtainwall (3)

SCALE : 1" = 1'-0"

detail at existing folded plate roof (2)

SCALE : 1" = 1'-0"

detail at fascia (1)

SCALE : 1" = 1'-0"

wall section (Q)

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

wall section (P)

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

wall section (N)

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

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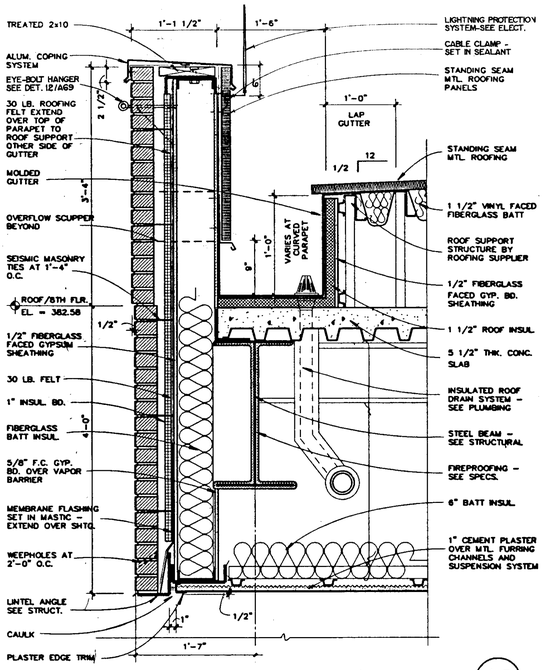
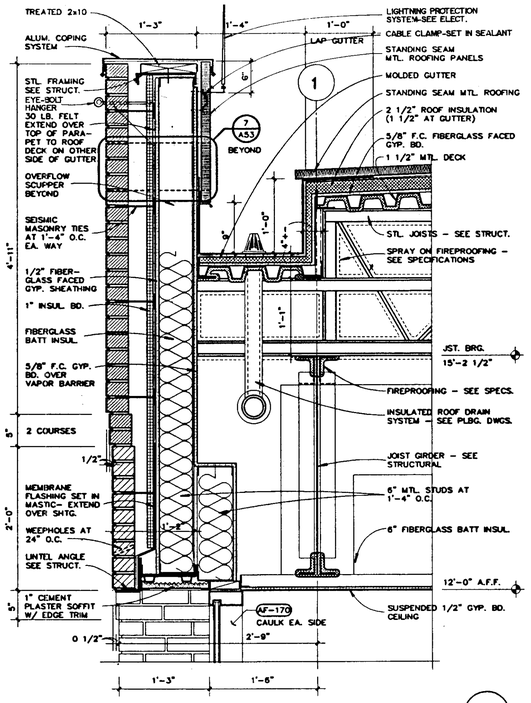


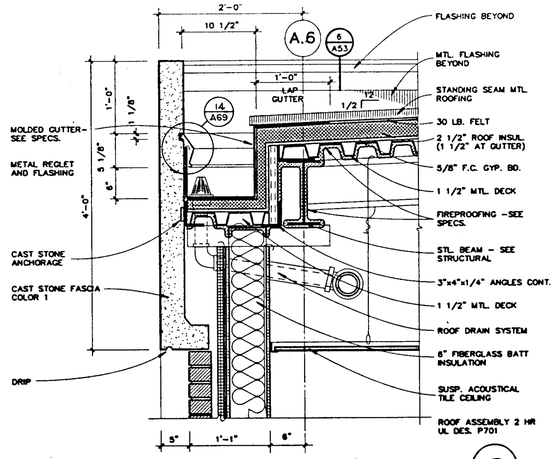
detail at fascia/gutter (12)

SCALE : 1" = 1'-0"



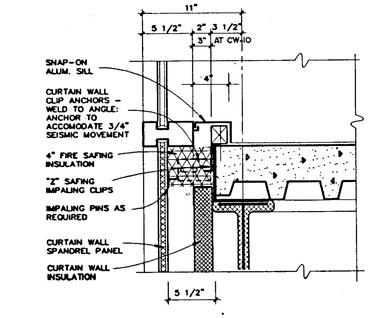
roof edge detail (9)

(UPPER ROOF) SCALE : 1" = 1'-0"



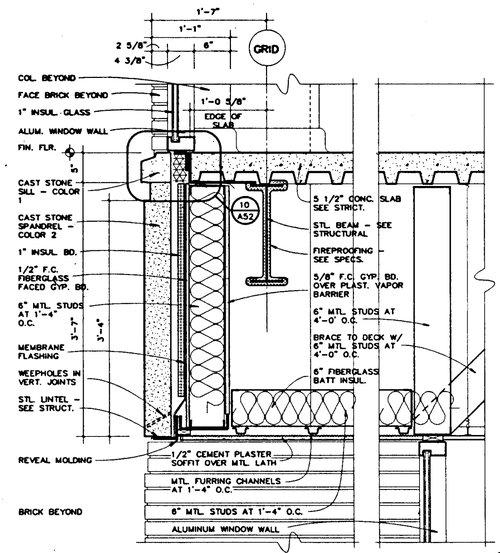
detail at fascia/gutter (6)

SCALE : 1" = 1'-0"



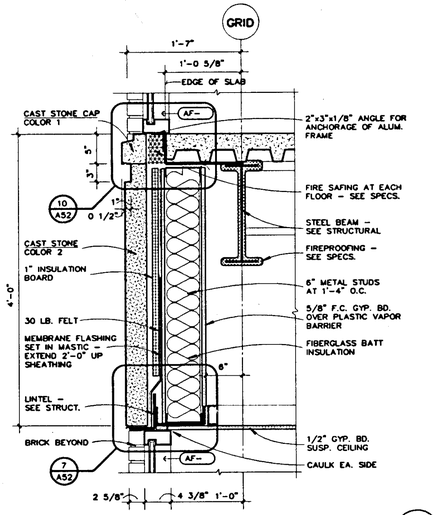
fire safing at curtain wall (3)

(2 HOUR) SCALE : 1 1/2" = 1'-0"



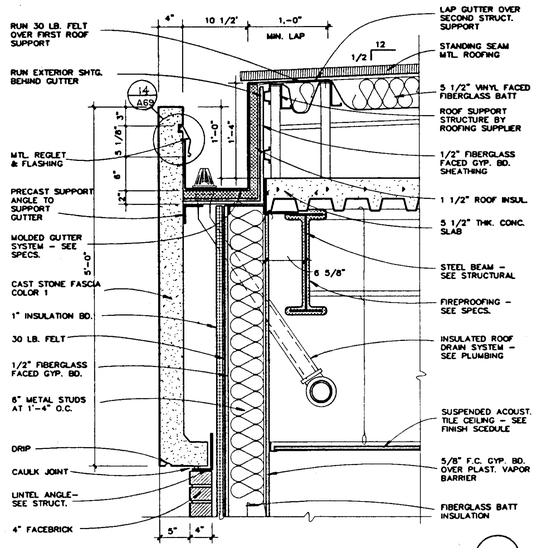
exterior wall detail (11)

SCALE : 1" = 1'-0"



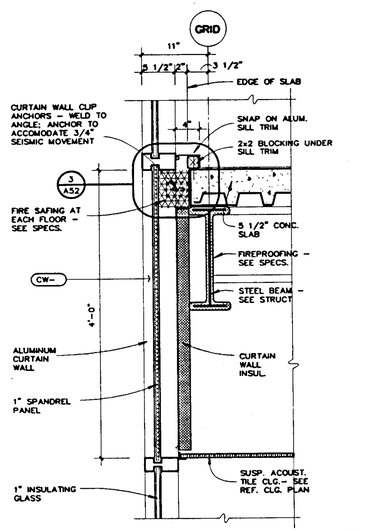
detail at stone band (8)

SCALE : 1" = 1'-0"



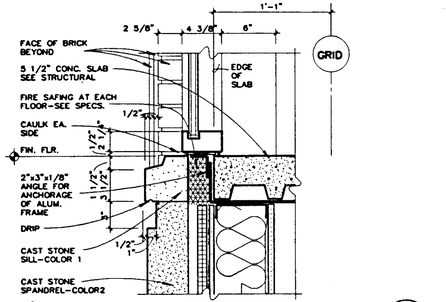
detail at fascia/gutter (5)

SCALE : 1" = 1'-0"



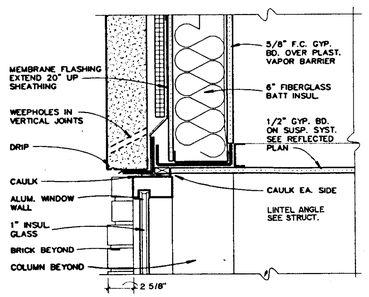
curtain wall detail (2)

(AT SPANDREL PANEL) SCALE : 1" = 1'-0"



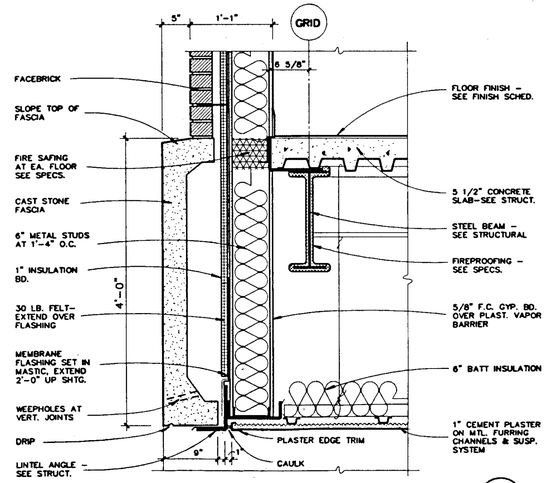
detail at window sill (10)

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



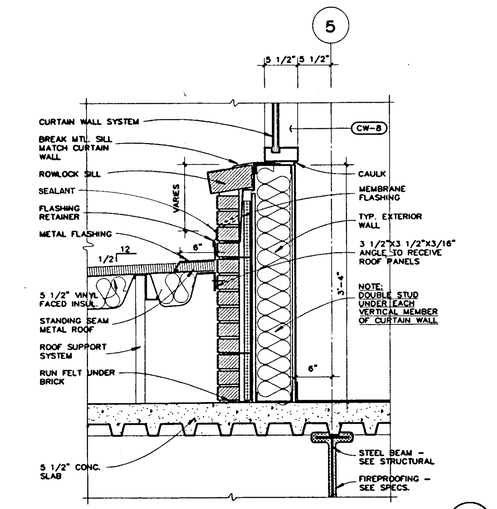
detail at window (7)

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



detail at fascia/soffit (4)

SCALE : 1" = 1'-0"



detail at roof (1)

SCALE : 1" = 1'-0"

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A52

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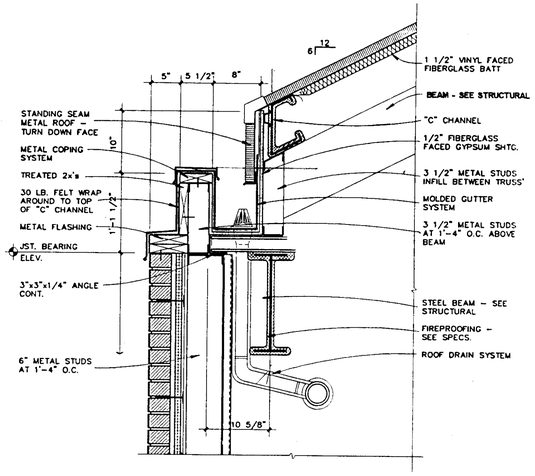
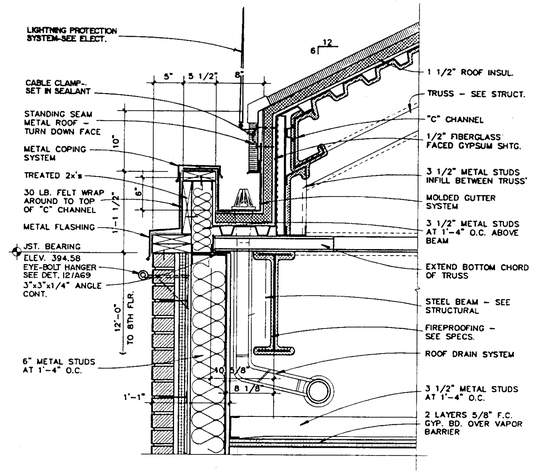


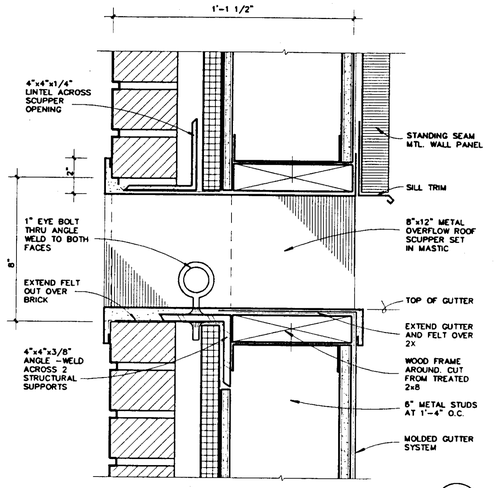
roof edge at bell tower 14

SCALE : 1" = 1'-0"



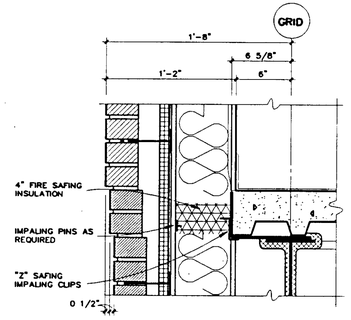
roof edge at stair tower 10

SCALE : 1" = 1'-0"



overflow scupper 7

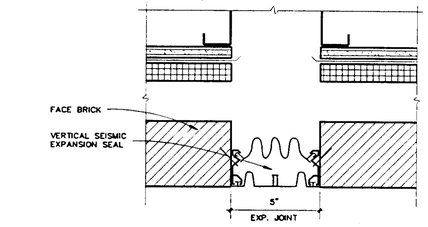
SCALE : 3" = 1'-0"



fire safing detail 3

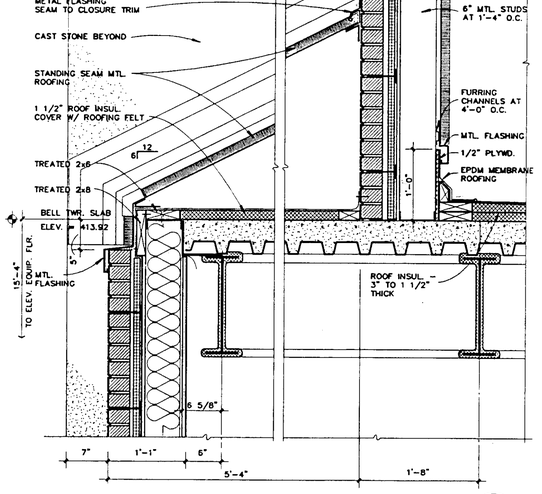
(TYPICAL EXTERIOR WALL - 2 HR.)

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



exterior vertical exp. jt. 13

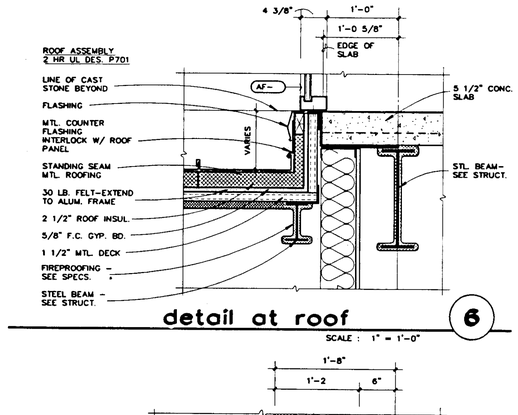
SCALE : 3" = 1'-0"



roof edge at bell tower floor 9

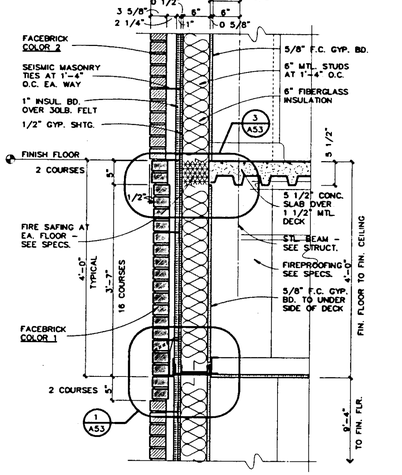
(CORNERS)

SCALE : 1" = 1'-0"



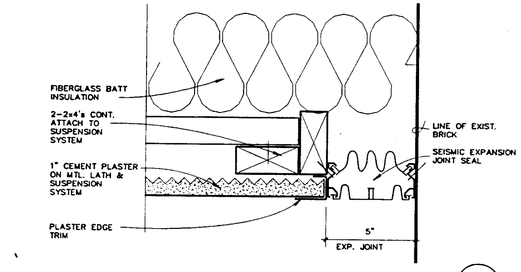
detail at roof 6

SCALE : 1" = 1'-0"



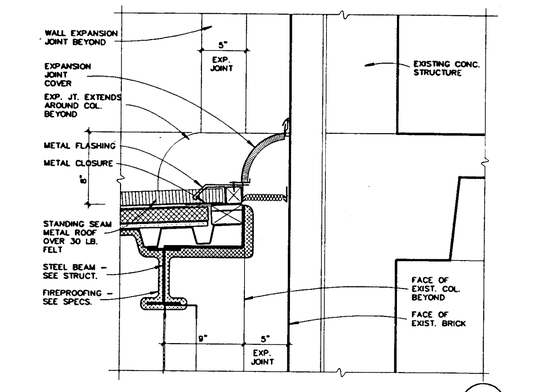
exterior wall detail 2

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



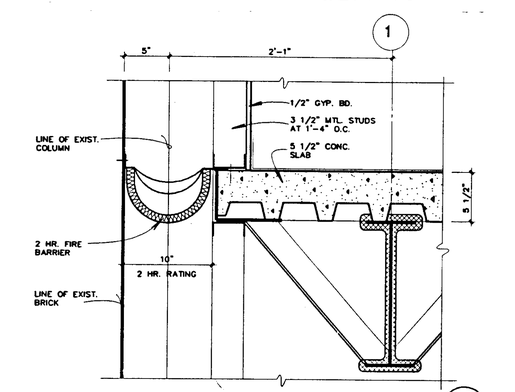
exterior exp. jt. at soffit 12

SCALE : 3" = 1'-0"



expansion joint detail 8

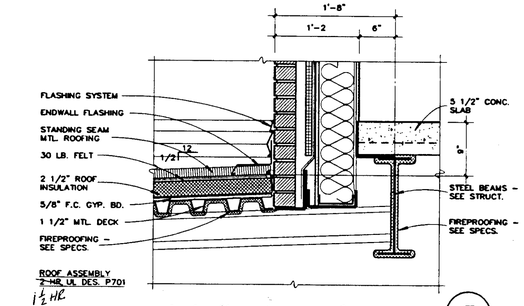
SCALE : 1 1/2" = 1'-0"



safing at typical floor 4

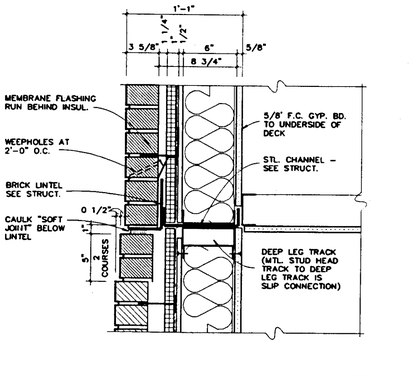
(2 HOUR)

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



detail at roof 5

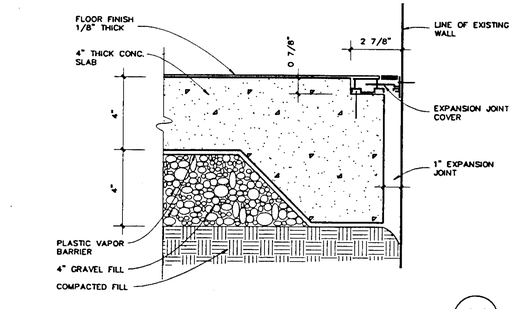
SCALE : 1" = 1'-0"



detail at soft joint 1

(BRICK LINTEL)

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



expansion joint at wall 11

(GROUND FLOOR)

SCALE : 3" = 1'-0"

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A53

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detail at stringer (1)

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

plan at stair-b

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

plan at stair-b

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

plan at stair-b

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

plan at stair-A

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

enlarged plan of elevator area

TYPICAL FLOOR (FIFTH FLOOR SHOWN) SCALE : 1/4" = 1'-0"

enlarged plan of elevator area

SECOND FLOOR SHOWN (GROUND FLOOR SIMILAR) SCALE : 1/4" = 1'-0"

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A54

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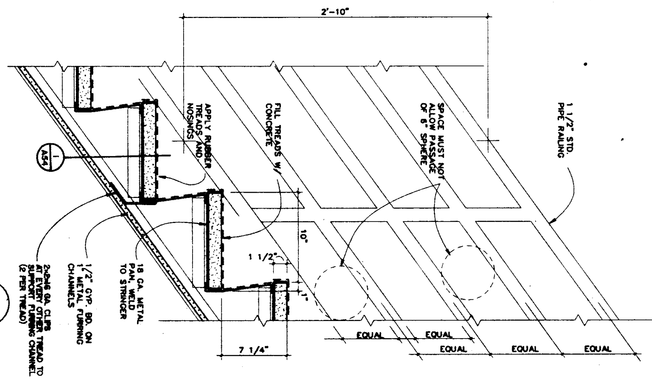
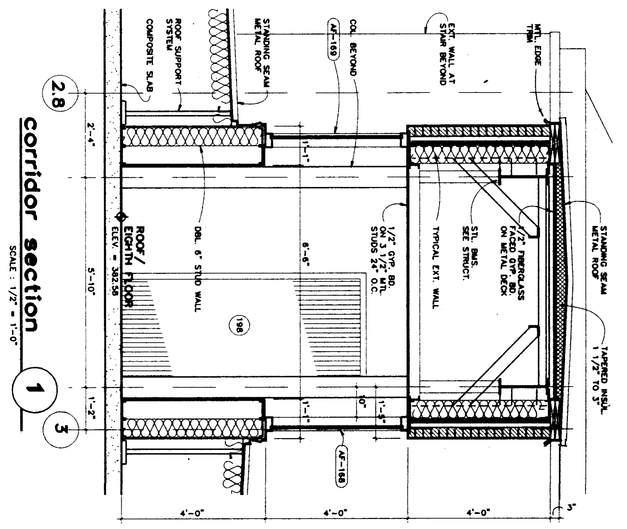
riser detail 2

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



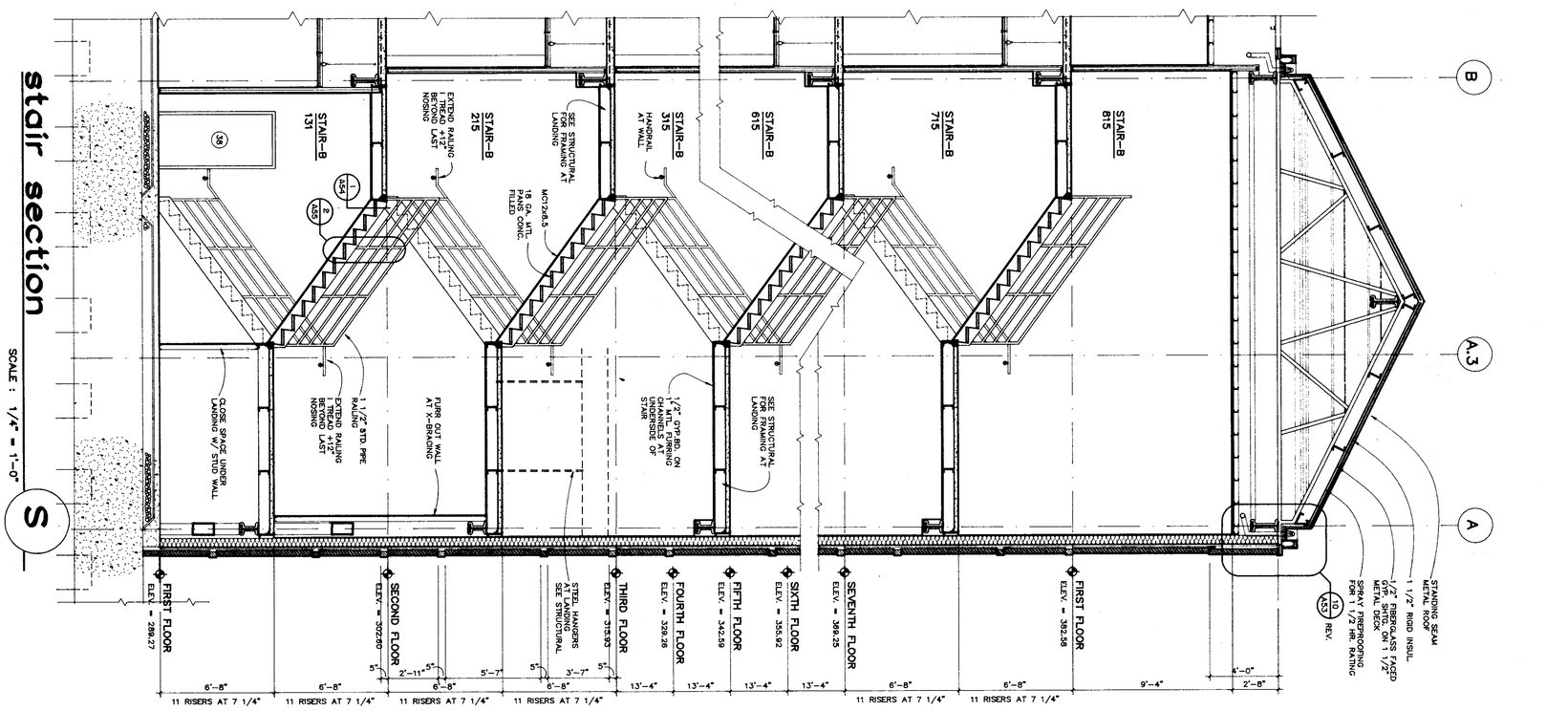
corridor section 1

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



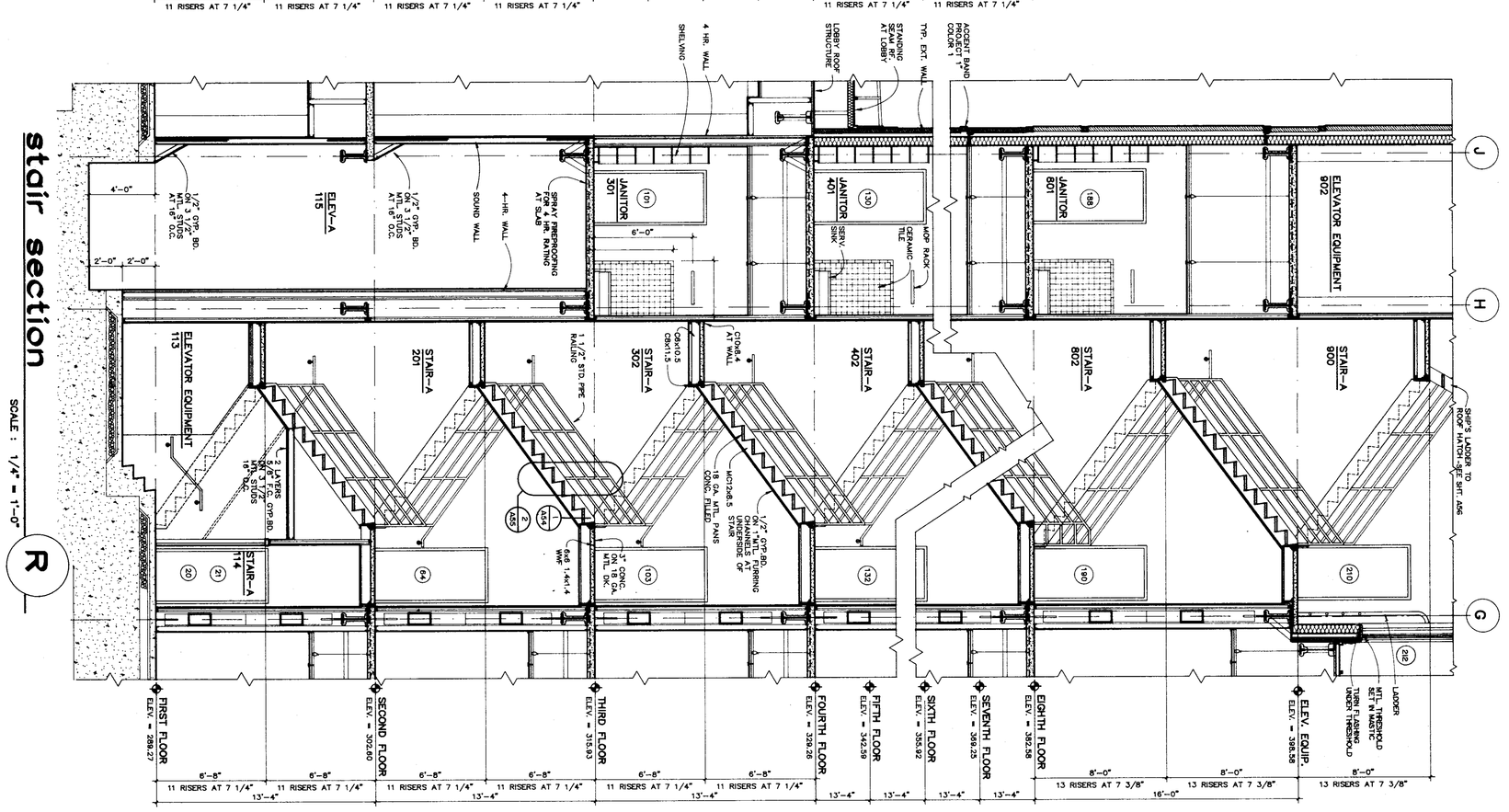
stair section S

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



stair section R

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



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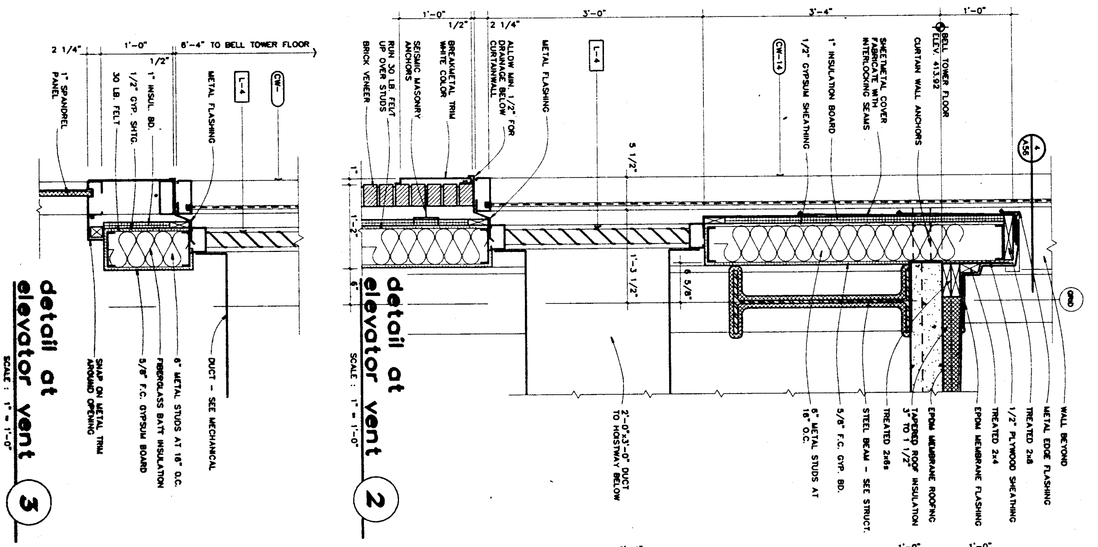

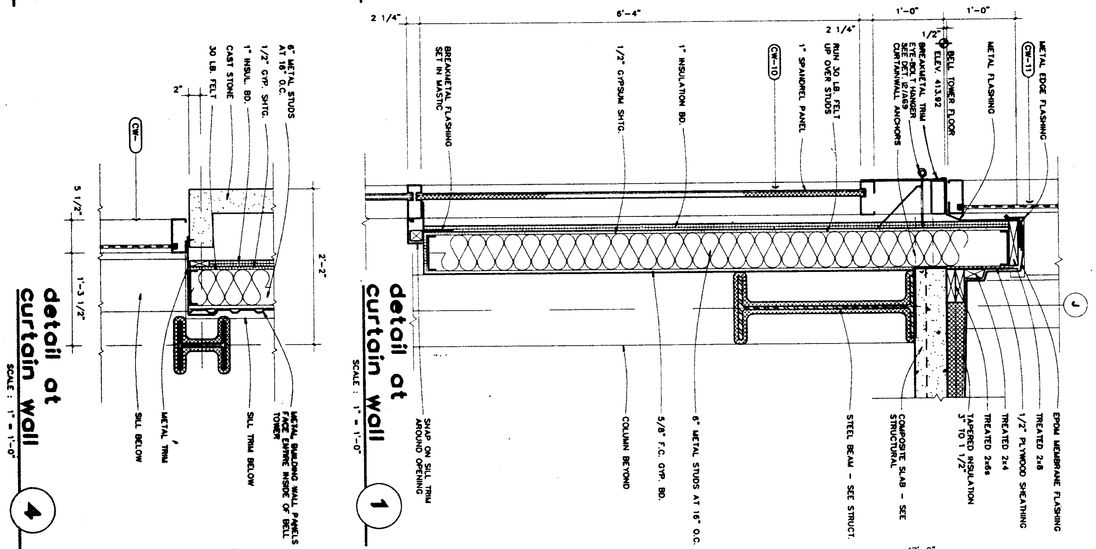

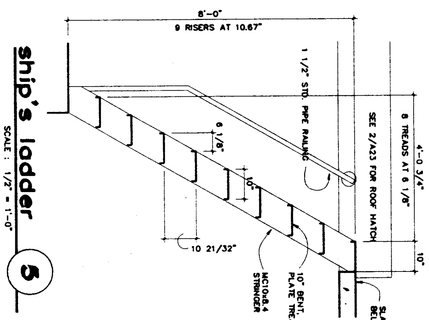

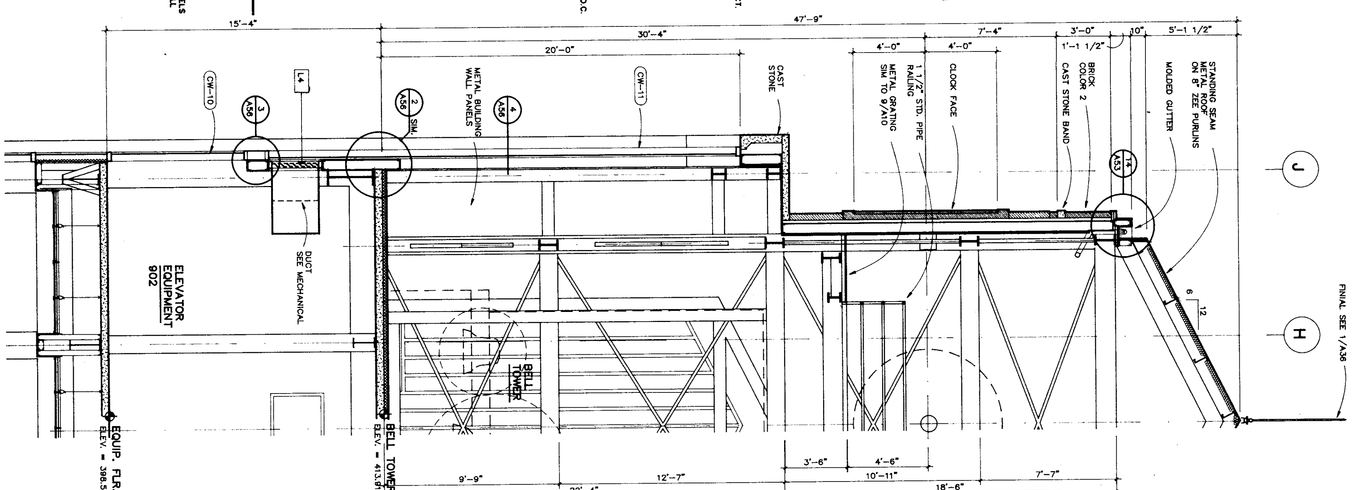

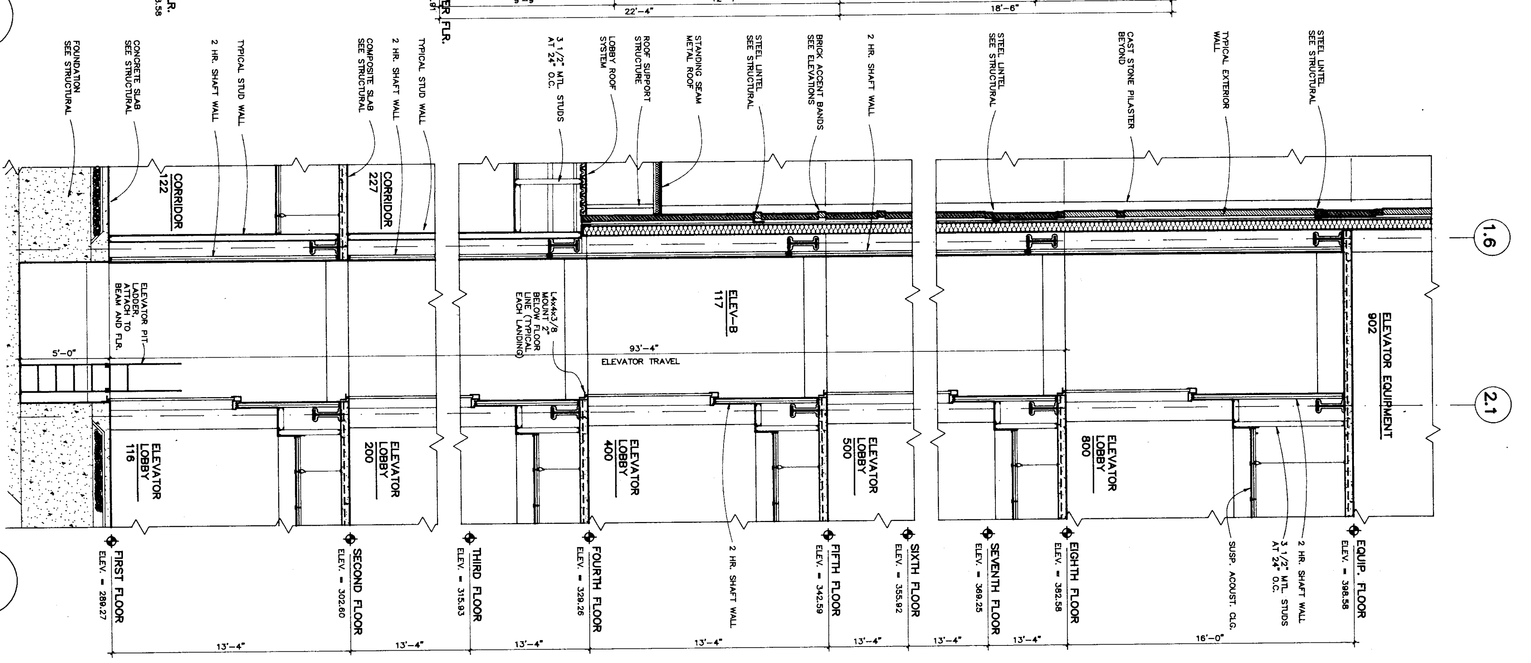

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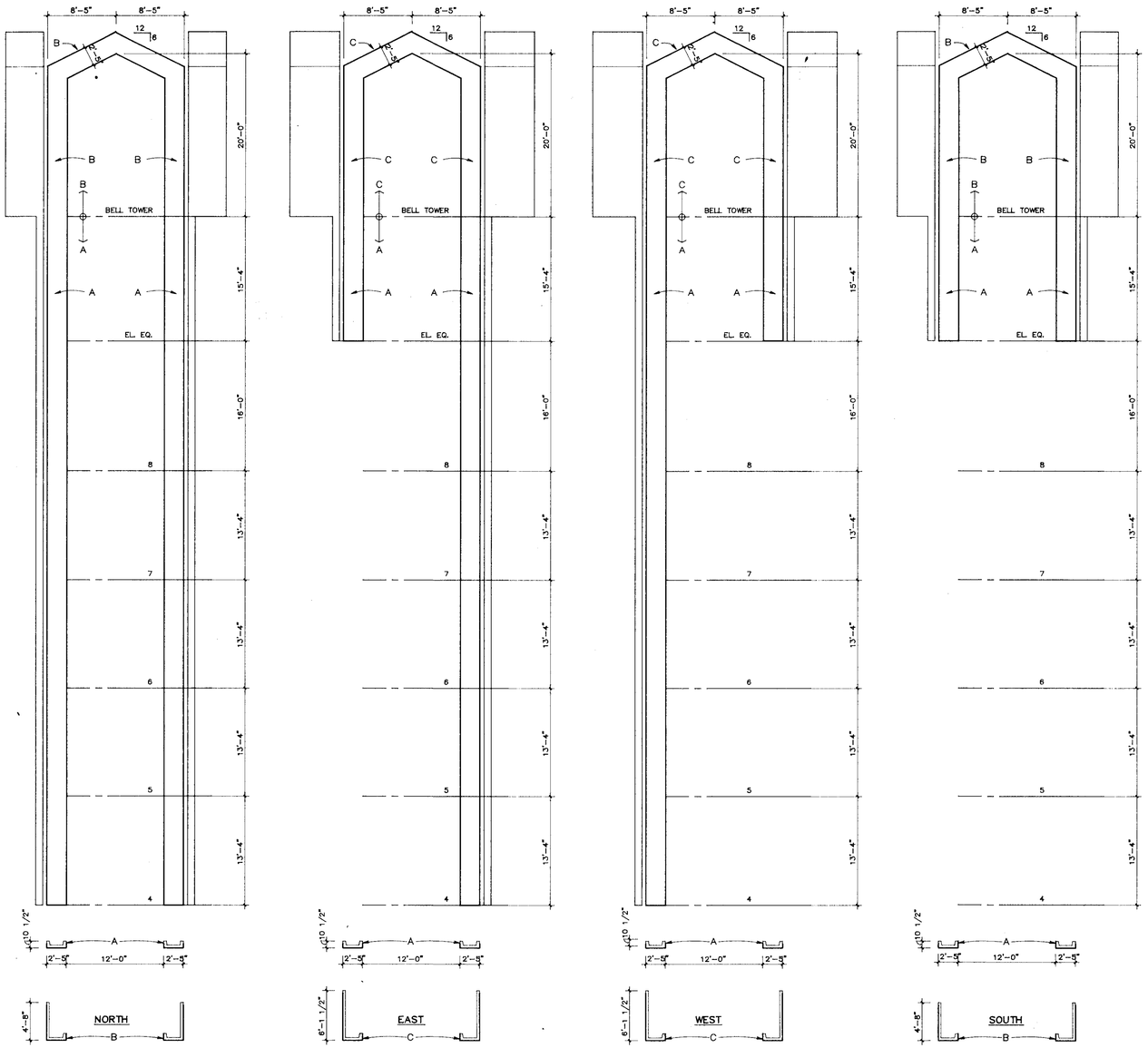
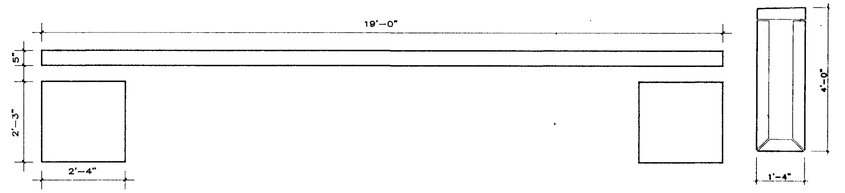
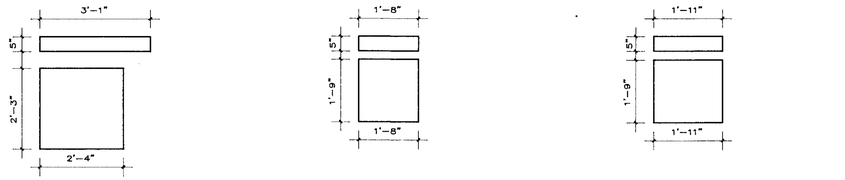


CAST STONE TRIM
(BELL TOWER)



CAST STONE QUOINS AND TRIM
(TOWER)

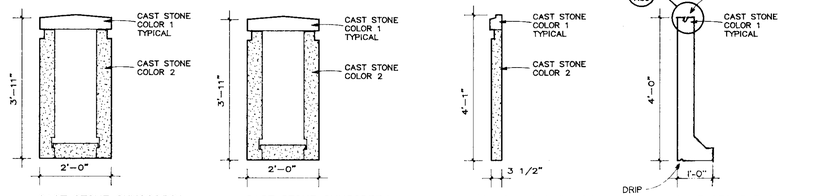
FREE
STANDING
ELEMENT



CAST STONE QUOINS AND TRIM
(TOWER)

CAST STONE QUOINS AND TRIM
(TYPICAL)

CAST STONE QUOINS AND TRIM
(CORNER)
SEE 3/A38

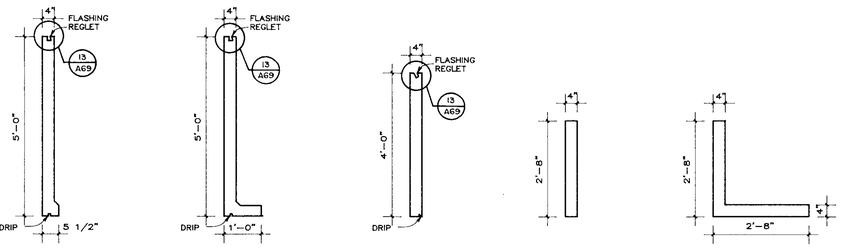


CAST STONE SUNSCREEN
(CURVED)
SEE 2/A46

CAST STONE SUNSCREEN
(STRAIGHT)
SEE 1/A46

CAST STONE BANDS
(NEW LIBRARY)
SEE 8/A52

CAST STONE FASCIA
(MUSEUM MONITOR)
SEE D/A43



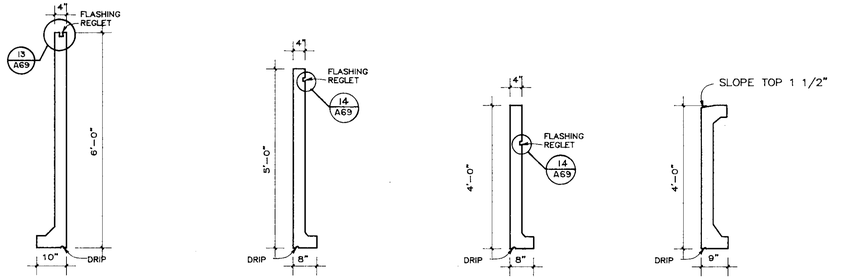
CAST STONE FASCIA
(AT EXISTING MUSEUM)
SEE 2/A69

CAST STONE FASCIA
(AT EXISTING LIBRARY)
SEE 3/A69

CAST STONE FASCIA
(AT MECH. BUILDING)
SEE B/A23

CAST STONE PANEL
(AT VESTIBULE)

CAST STONE PILASTER
(AT VESTIBULE)



CAST STONE FASCIA
(AT CANOPY)
SEE 1/A48

CAST STONE FASCIA
SEE 5/A52

CAST STONE FASCIA
SEE 6/A52

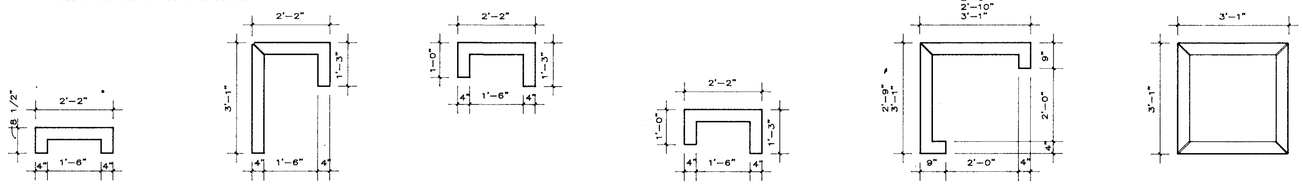
CAST STONE BAND
SEE 4/A52

cast stone schedule

SCALE : 1/8" = 1'-0"

GENERAL NOTES:

1. SEE EXTERIOR ELEVATIONS FOR CAST STONE PLACEMENT AND QUANTITY OF CAST STONE.
2. CAST STONE SUPPLIER TO PROVIDE ALL ANCHORAGE OF CAST STONE–SEE SPECIFICATIONS.
3. FIELD VERIFY ALL CONDITIONS.
4. SEE ARCHITECTURAL DETAILS FOR FLASHING, REGLETS, AND OTHER MATERIALS THAT ARE ADJACENT TO AND MAY AFFECT CAST STONE.
5. SEE STRUCTURAL FOR ADDITIONAL DETAILS.



CAST STONE PILASTER
(SEE DETAIL 6/A25)

CAST STONE PILASTER
(SEE DETAIL 7/A25)

CAST STONE PILASTER
(SEE DETAIL 8/A25)

CAST STONE PILASTER
(SEE DETAIL 9/A25)

CAST STONE COLUMN

CAST STONE COLUMN

CAST STONE COLUMN

CAST STONE COLUMN

CAST STONE COLUMN
FREE STANDING ELEMENT

cast stone schedule

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

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A57

DATE: SEPT. 15, 1991

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entry canopy reflected ceiling plan

SCALE : 1/8" = 1'-0"

detail at expansion joint 1

SCALE : 3" = 1'-0"

detail at ceiling coffer 2

(STUDENT MALL) SCALE : 1 1/2" = 1'-0"

detail at furr down 3

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

first floor reflected ceiling plan part A

SCALE : 1/8" = 1'-0"

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COMM. NO. 11990

A58

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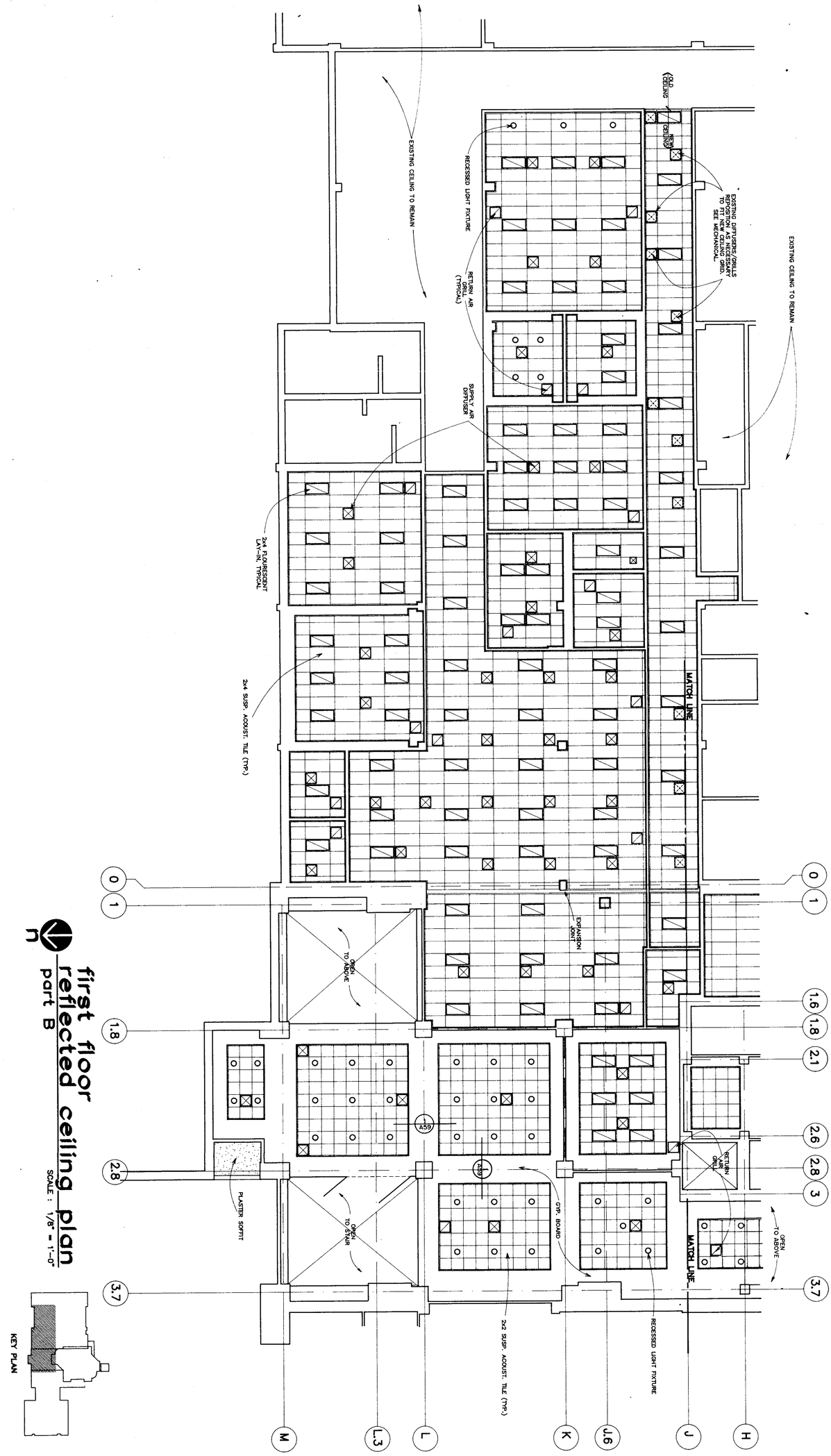
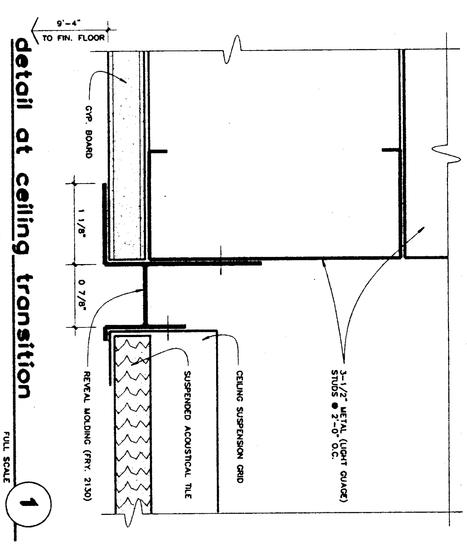


first floor reflected ceiling plan part B

SCALE: 1/8" = 1'-0"

KEY PLAN



detail at ceiling transition

1 FULL SCALE

COAL NO. 11990
A59
DATE: SEPT. 15, 1991

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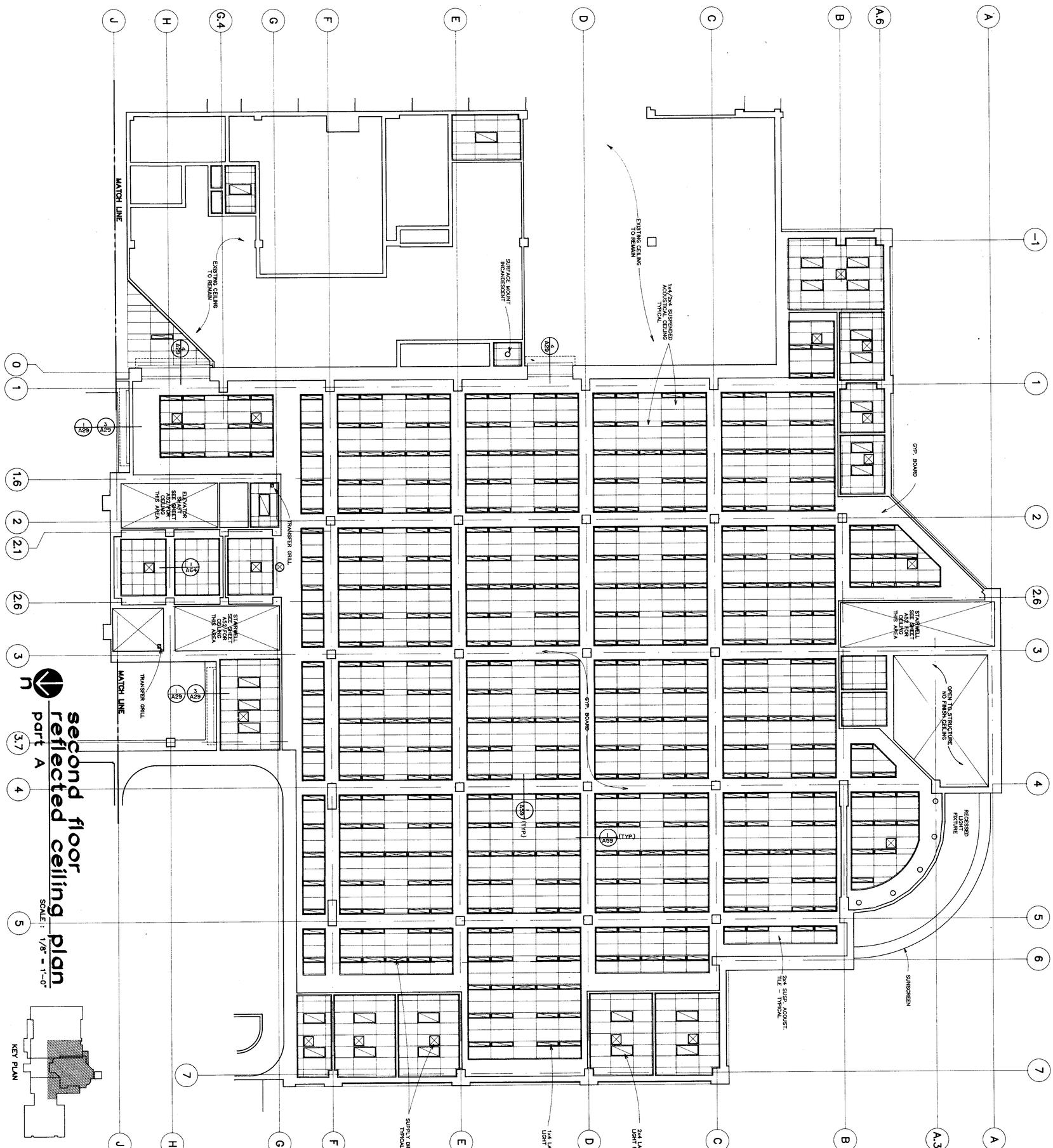

second floor reflected ceiling plan
part A
SCALE: 1/8" = 1'-0"

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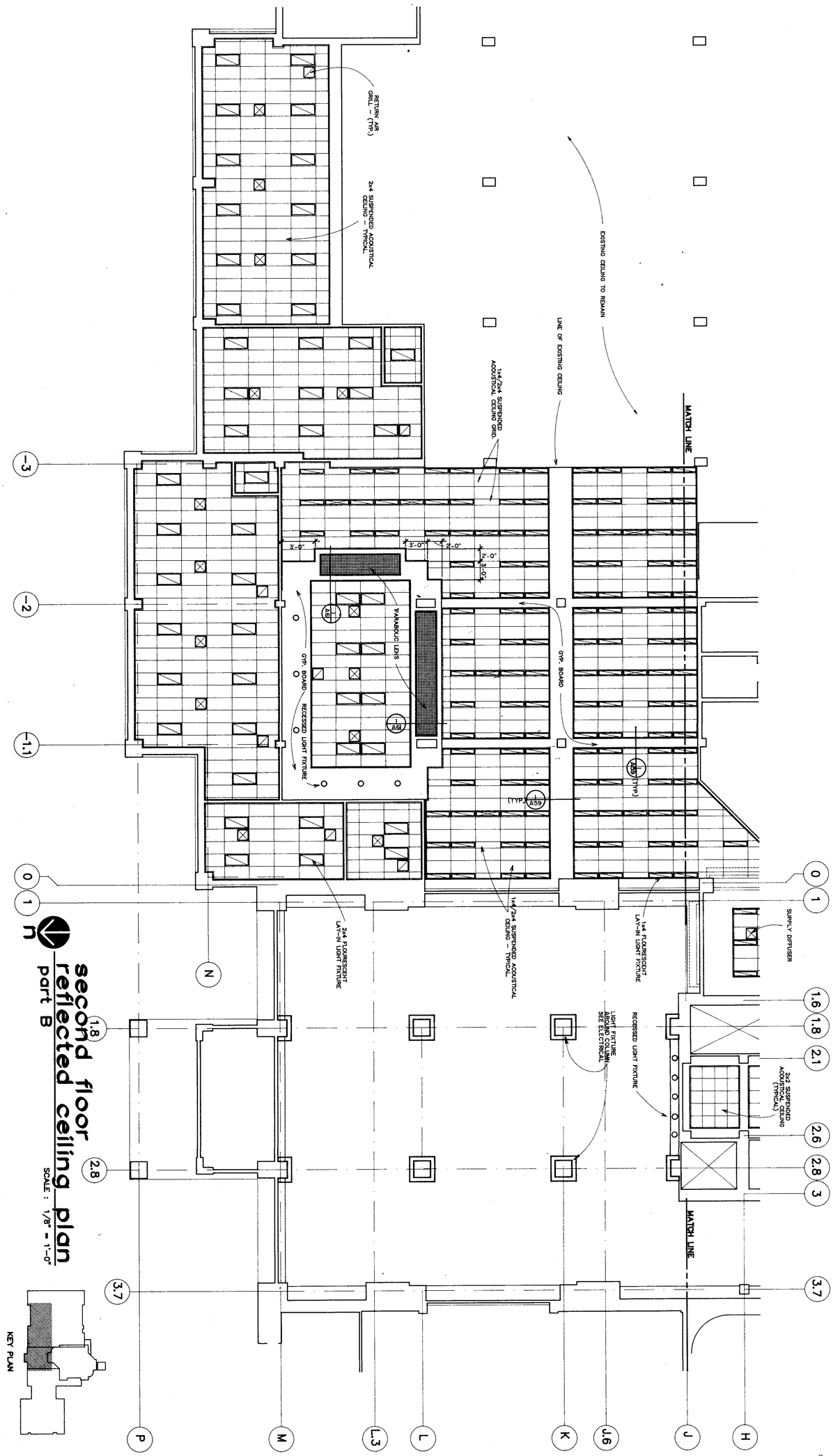
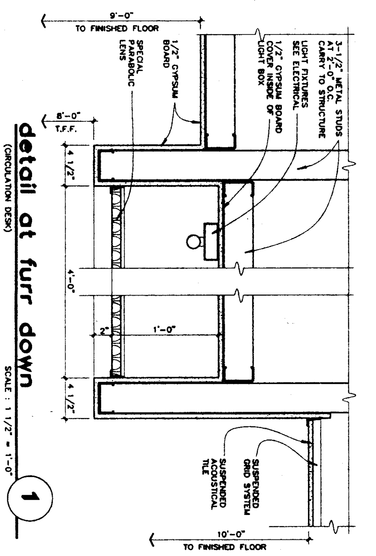


second floor reflected ceiling plan part B

SCALE : 1/8" = 1'-0"

KEY PLAN



detail at furr down

(CIRCULATION DESK)

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

1

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A61

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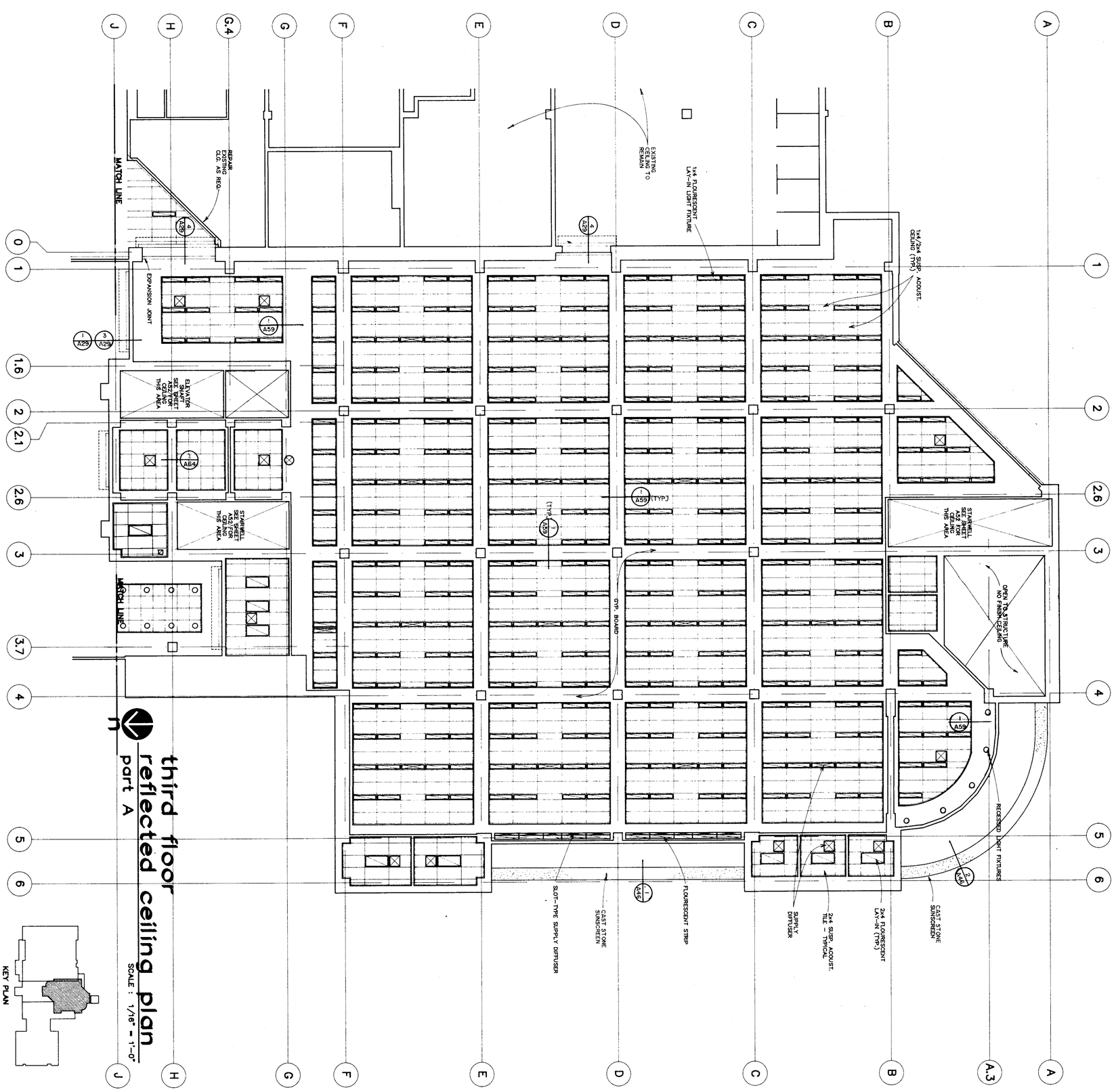

third floor reflected ceiling plan

part A

SCALE : 1/16" - 1'-0"

KEY PLAN

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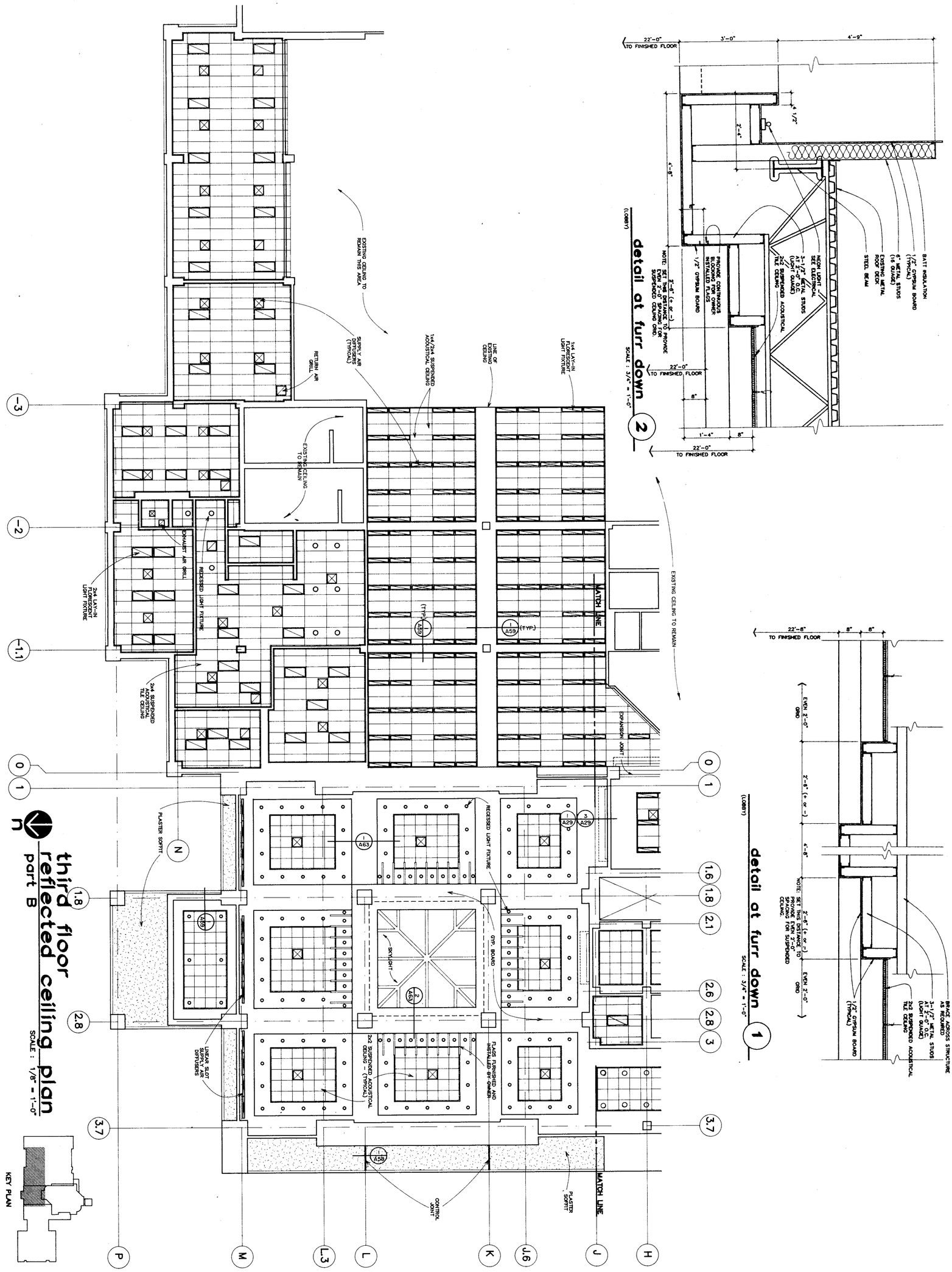

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detail at furr down 1

(ELEVATOR LOBBY) SCALE : 3/4" = 1'-0"

fourth floor reflected ceiling plan

SCALE : 1/16" = 1'-0"

KEY PLAN

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plan view
NO SCALE

runners at walls
NO SCALE

isometric view
NO SCALE

seismic detail at suspended ceilings (1)

ASTM E-580, ZONE 3 — TYPICAL ALL CEILINGS

fifth–seventh floor reflected ceiling plan

SCALE : 1/16" = 1'-0"

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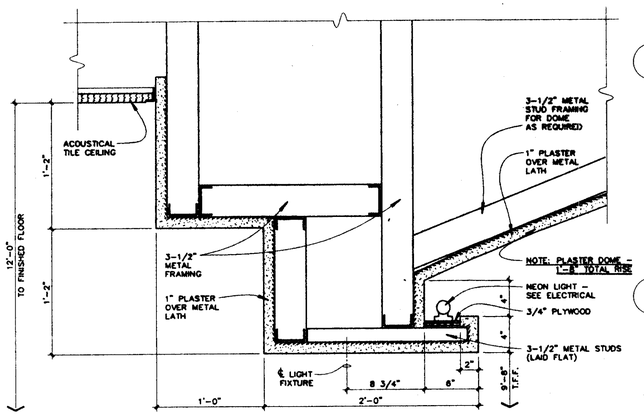
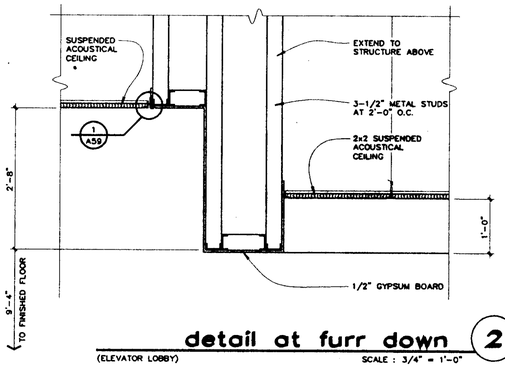


detail at plaster dome (1)

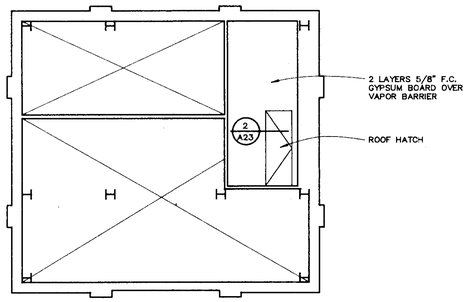
SCALE : 1-1/2" = 1'-0"



detail at furr down (2)

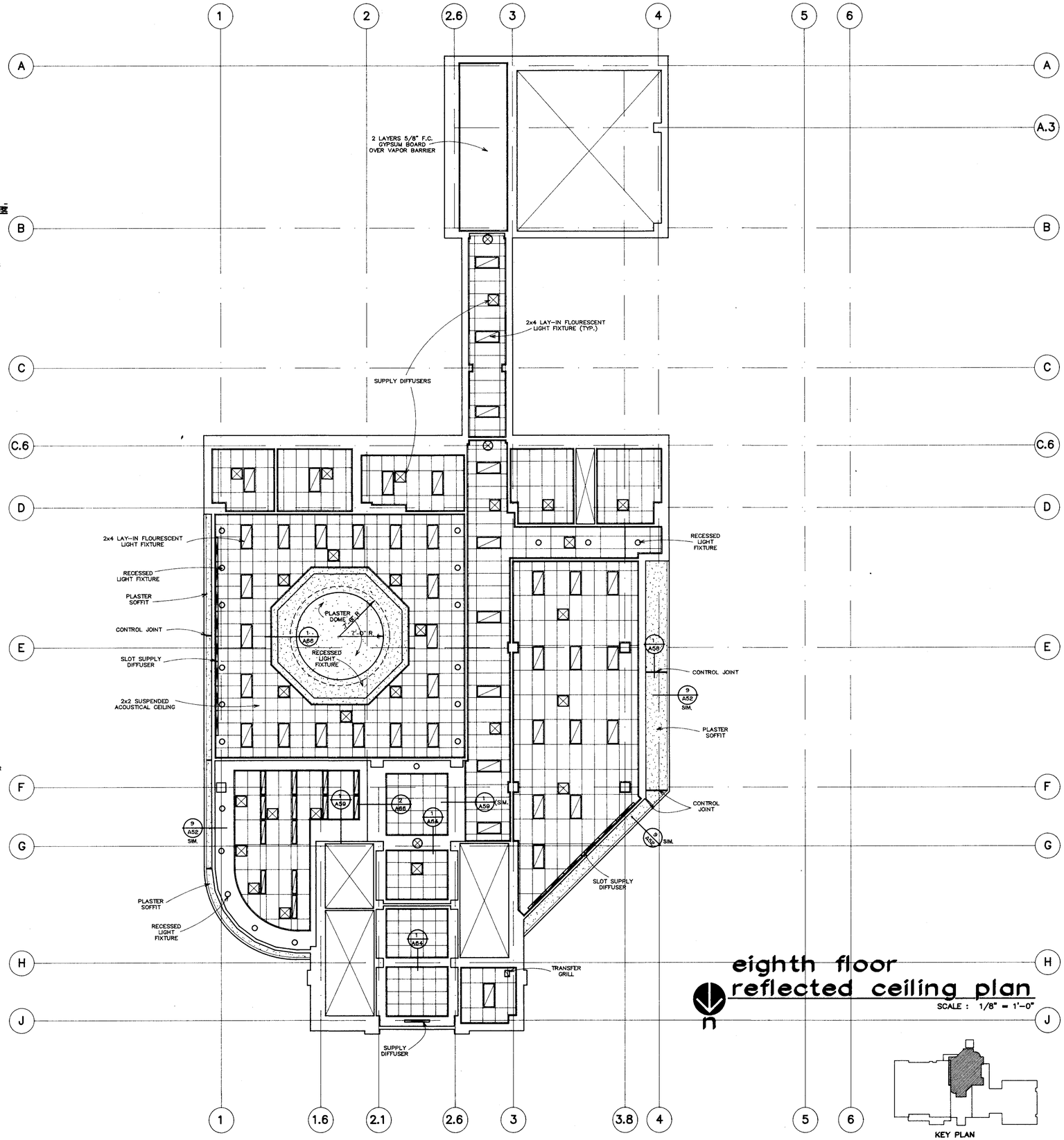
(ELEVATOR LOBBY)

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



elevator equip. room reflected ceiling plan

SCALE : 1/8" = 1'-0"



eighth floor reflected ceiling plan

SCALE : 1/8" = 1'-0"

KEY PLAN

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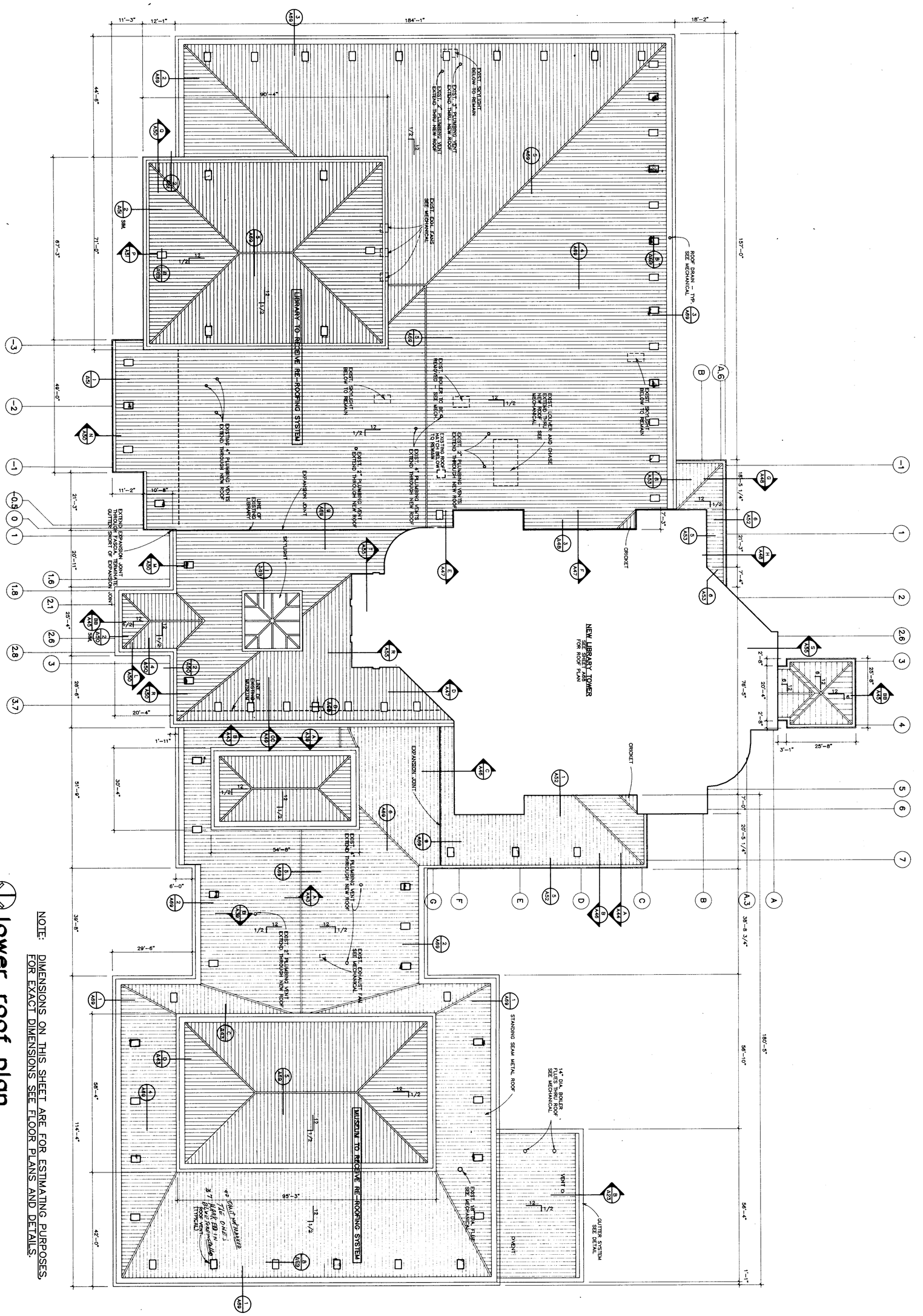
LIBRARY TO RECEIVE RE-ROOFING SYSTEM
NEW LIBRARY TOWER
SEE ROOF PLAN
MUSEUM TO RECEIVE RE-ROOFING SYSTEM
STANDING SEAM METAL ROOF
CRICKET
EXPANSION JOINT
SKYLIGHT
ROOF DRAIN - TYP.
SEE MECHANICAL
GUTTER SYSTEM
SEE DETAIL
EXIST. LOUVER AND CHASE
UNTIL NO LONGER
NEEDED FOR MECHANICAL
SEE MECHANICAL
EXIST. SKYLIGHT
BELOW TO REMAIN
EXIST. BOILER TO BE
REMOVED SEE MECH.
EXIST. 4" PLUMBING VENT
EXTEND THRU NEW ROOF
EXIST. 6" PLUMBING VENT
EXTEND THRU NEW ROOF
EXIST. EXHAUST FAN
SEE MECHANICAL
EXIST. 8" PLUMBING VENT
EXTEND THROUGH NEW ROOF
EXIST. 4" PLUMBING VENT
EXTEND THROUGH NEW ROOF
EXIST. 4" PLUMBING VENT
EXTEND THROUGH NEW ROOF
EXIST. 4" PLUMBING VENT
EXTEND THROUGH NEW ROOF
EXIST. SKYLIGHT
BELOW TO REMAIN
EXIST. SKYLIGHT
BELOW TO REMAIN
EXIST. SKYLIGHT
BELOW TO REMAIN

NOTES:
1. DIMENSIONS ON THIS SHEET ARE FOR ESTIMATING PURPOSES, FOR EXACT DIMENSIONS SEE FLOOR PLANS AND DETAILS.
2. SEE SHEET A23 FOR ROOF PLAN INSIDE BELL TOWER

upper roof plan

SCALE: 1/16" = 1'-0"

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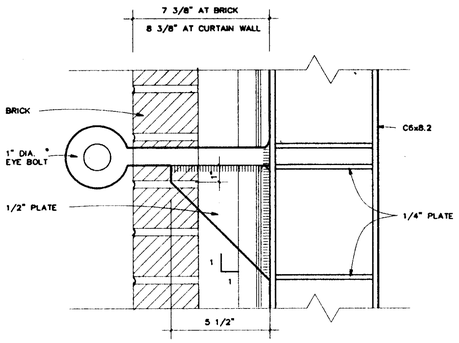
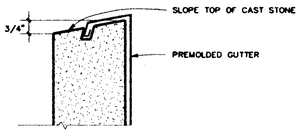


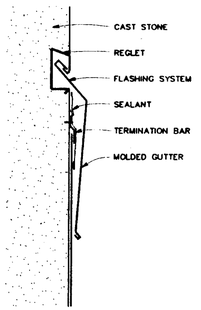
window washer hanger 12

SCALE : 3" = 1'-0"



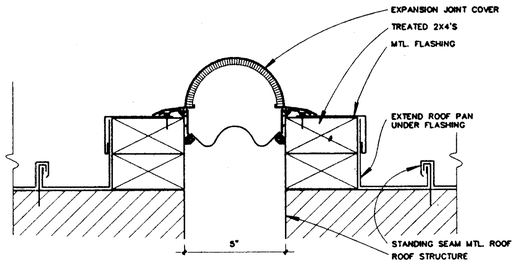
typ. at all top reglets 13

SCALE : 3" = 1'-0"



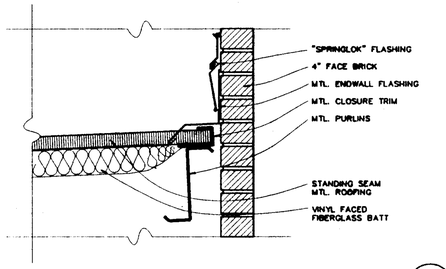
typ. side reglet at gutter 14

SCALE: 6" = 1'-0"



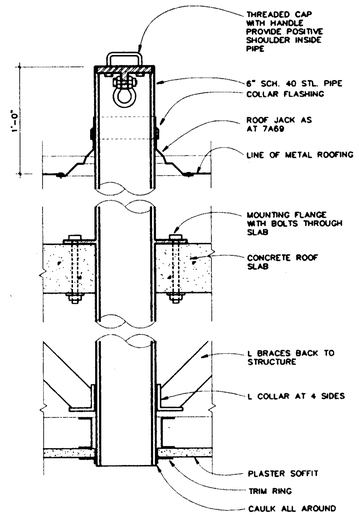
det. at expansion joint 9

SCALE : 3" = 1'-0"



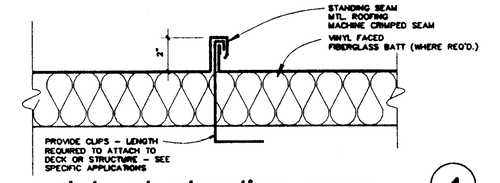
det. flashing to wall 10

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



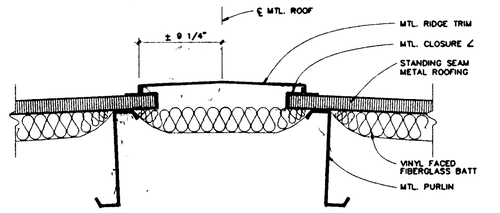
detail at rigging sleeve 11

SCALE : 3" = 1'-0"



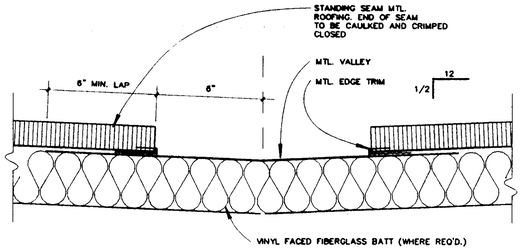
det. at standing seam 4

SCALE : 3" = 1'-0"



det. at ridge trim 5

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

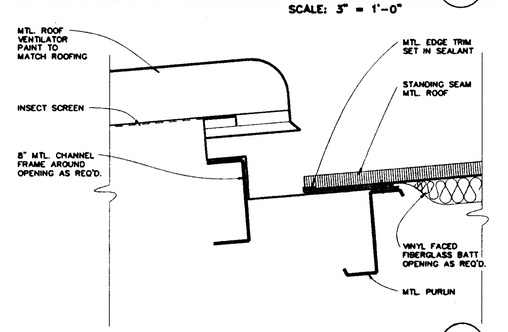


det. at valley flashing 6

SCALE : 3" = 1'-0"

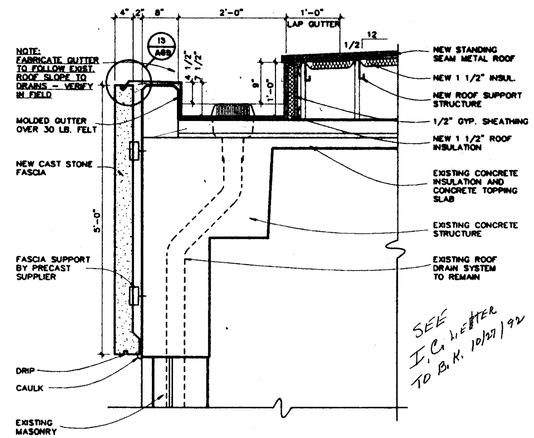
det. at vent/flue pipe 7

SCALE: 3" = 1'-0"



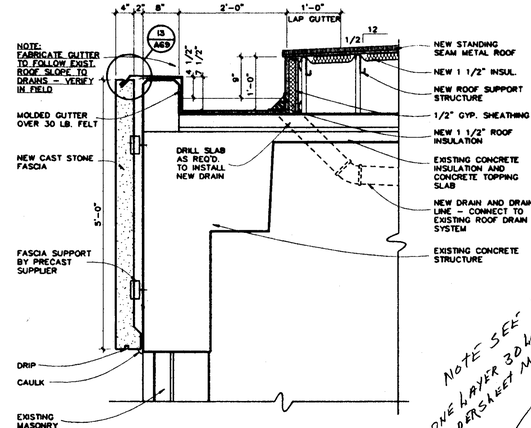
det. at roof ventilator 8

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



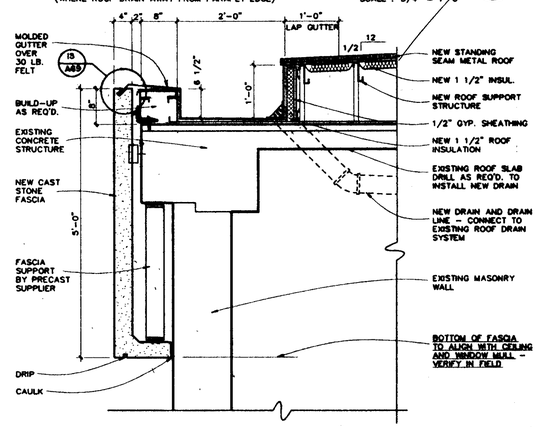
fascia at existing museum 1

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



fascia at existing museum 2

(WHERE ROOF DRAIN AWAY FROM PARAPET EDGE) SCALE : 3/4" = 1'-0"



fascia at existing library 3

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

roof details

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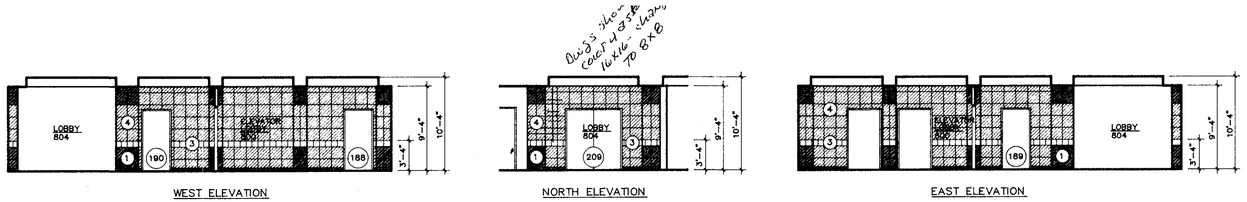
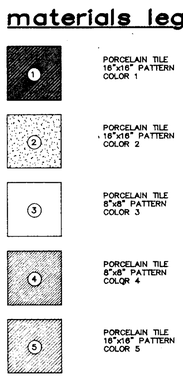
COMM. NO. 11990
A69
DATE: SEPT. 15, 1991

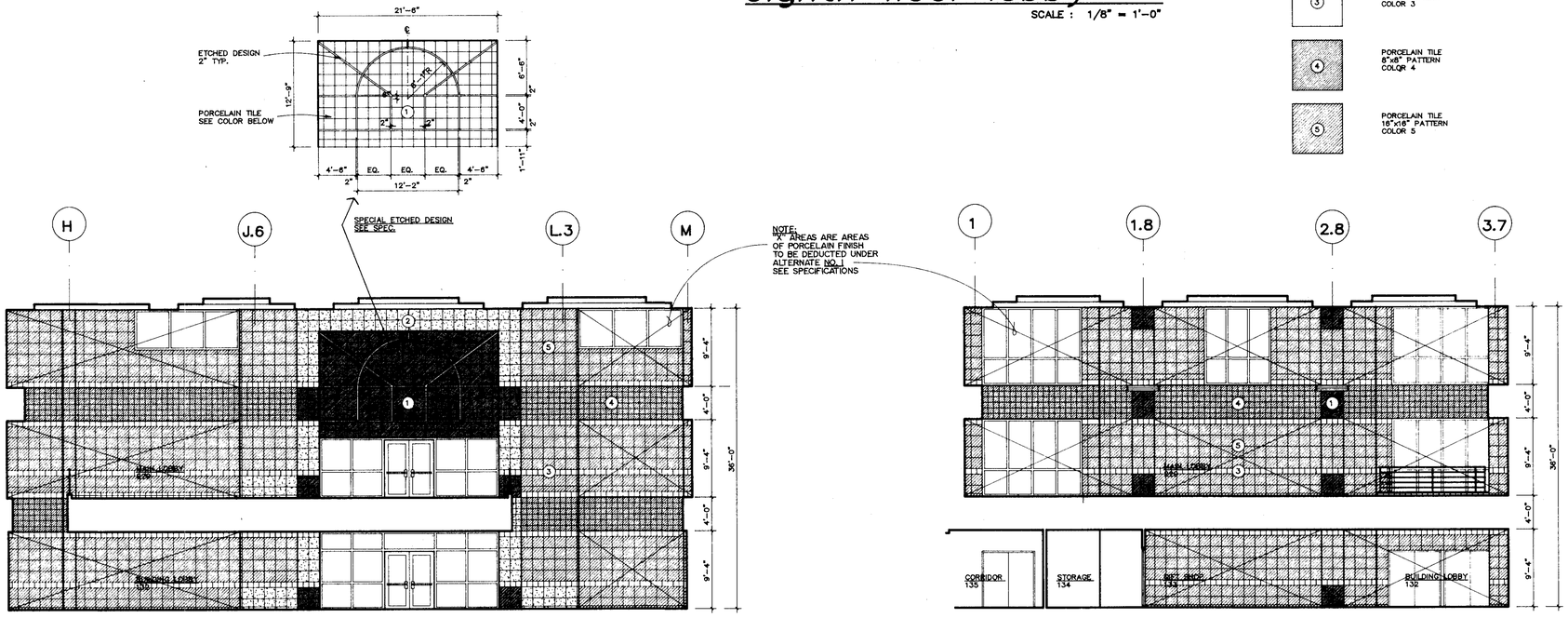
BRUNING 40-5020 121691



eighth floor lobby

SCALE : 1/8" = 1'-0"


materials legend

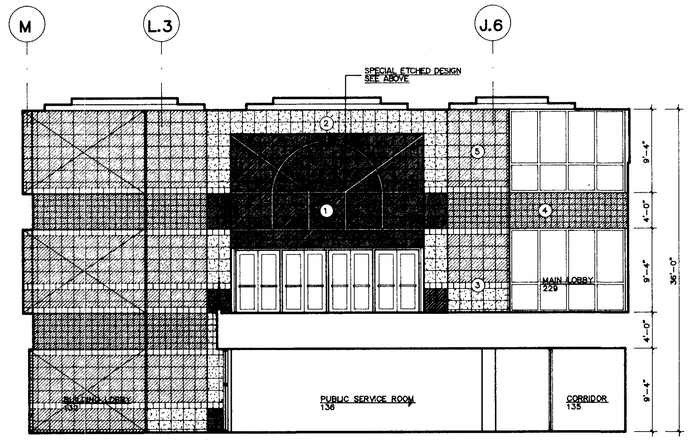


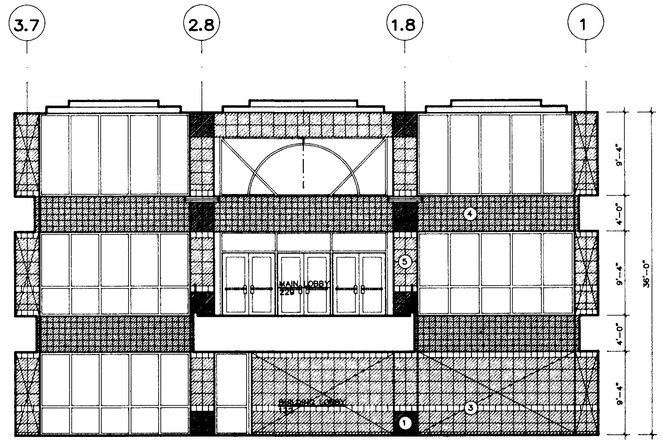
west wall lobby

SCALE : 1/8" = 1'-0"

south wall lobby

SCALE : 1/8" = 1'-0"





east wall lobby

SCALE : 1/8" = 1'-0"

north wall lobby

SCALE : 1/8" = 1'-0"

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COMM. NO. 11990

A70

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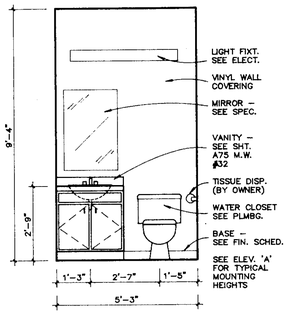
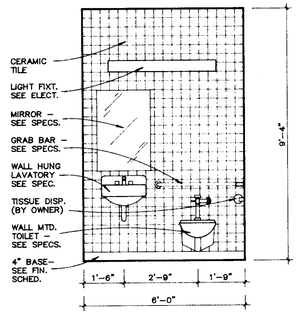


elevation 'e'

THIRD FLOOR
MILLWORK #32

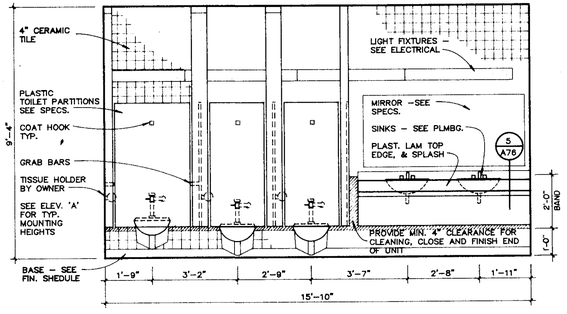
SCALE: 3/8" = 1'-0"



elevation 'c'

ELEVATION 'd' REVERSED

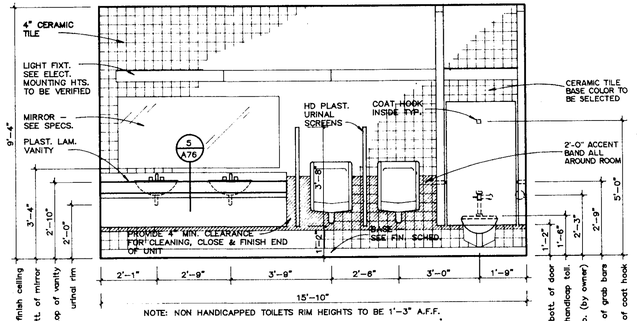
SCALE: 3/8" = 1'-0"



elevation 'b'

MILLWORK ITEM #19

SCALE: 3/8" = 1'-0"



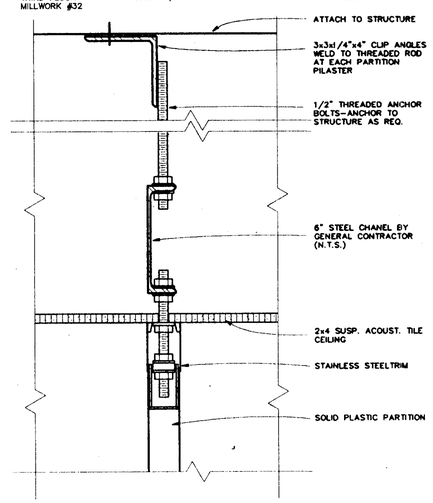
NOTE: NON HANDICAPPED TOILETS RIM HEIGHTS TO BE 1'-3" A.F.F.

elevation 'a'

MILLWORK ITEM #20

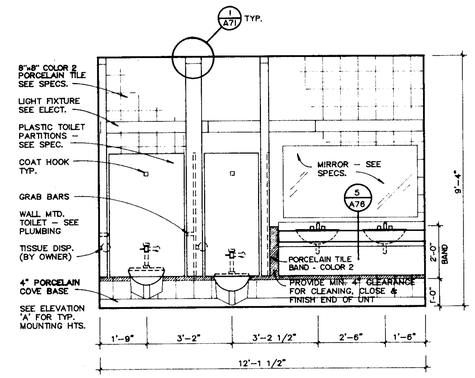
SCALE: 3/8" = 1'-0"

NOTE: VERTICAL DIMENSIONS SHOWN ON THIS ELEVATION ARE TYPICAL AT ALL BATH-ROOM ELEVATIONS, UNLESS OTHERWISE NOTED.



det. at toilet partition 1

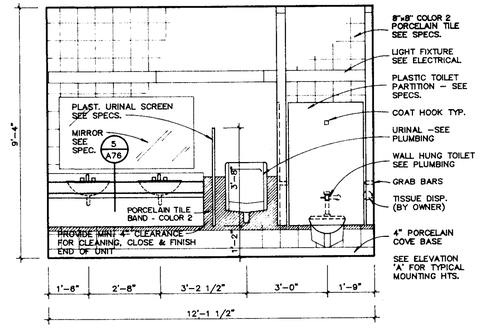
SCALE : 3" = 1'-0"



elevation 'g'

MILLWORK #38

SCALE: 3/8" = 1'-0"

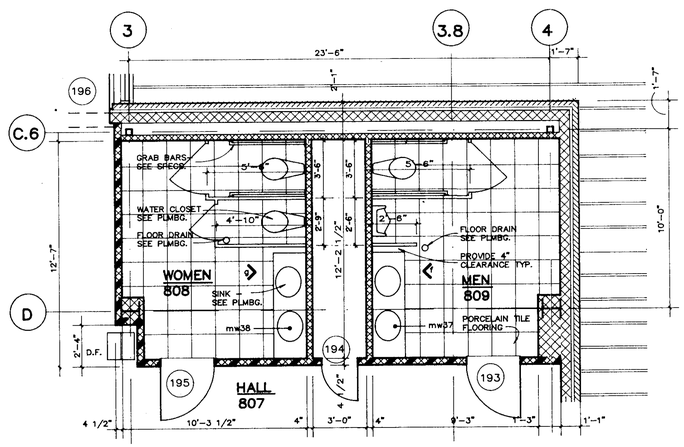


elevation 'f'

MILLBORK #37

SCALE: 3/8" = 1'-0"

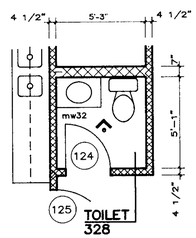
interior elevations



enlarged plan at toilets

EIGHTH FLOOR

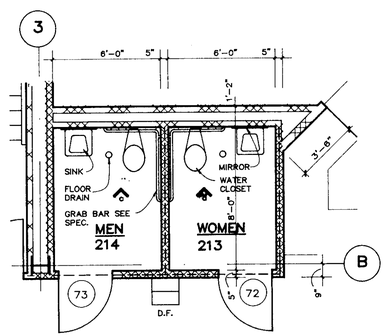
SCALE: 1/4" = 1'-0"



enlarged plan at toilet

THIRD FLOOR PLAN

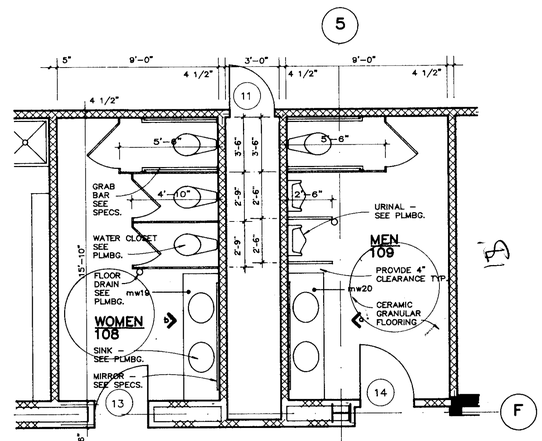
SCALE: 1/4" = 1'-0"



enlarged plan at toilets

SECOND THRU SEVENTH FLOORS TYPICAL
(SECOND FLOOR SHOWN)

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



enlarged plan at toilets

(FIRST FLOOR)

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

enlarged plans at toilets

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detail at railing 2

SCALE : 1" = 1'-0"

detail at stair tread 1

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

plan at lobby stair

SECOND FLOOR SHOWN

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

stair section A

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

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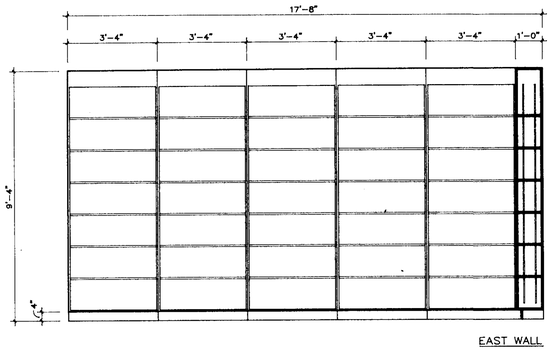
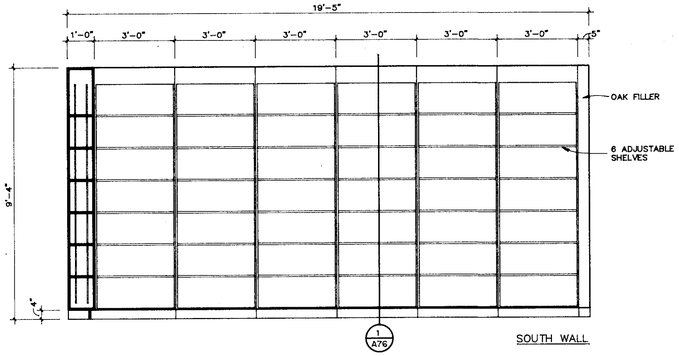
BRUNING 40-9020 321891

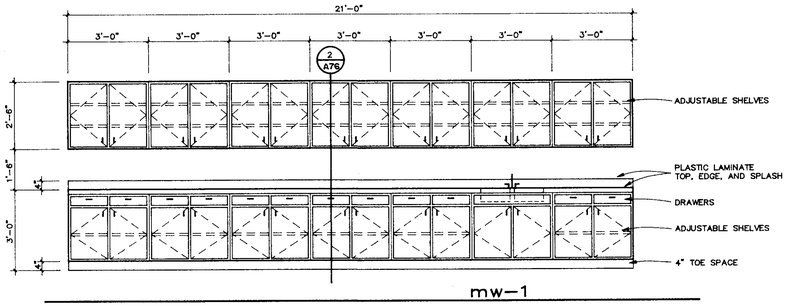


EAST WALL



SOUTH WALL

mw-18



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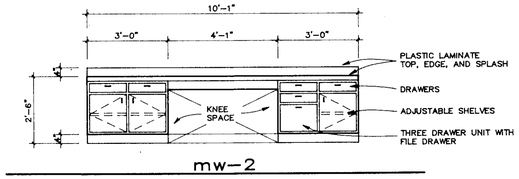

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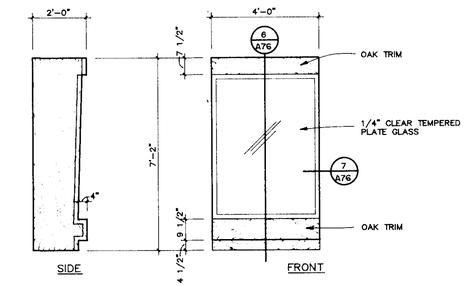
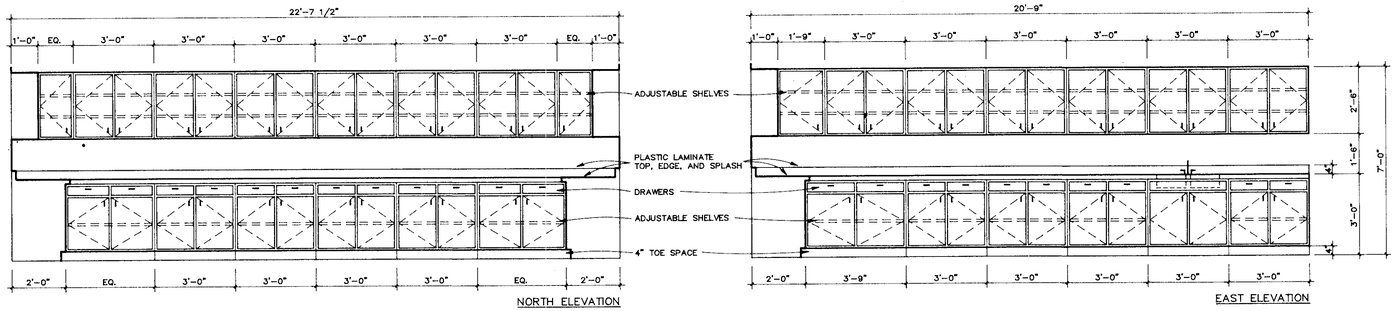
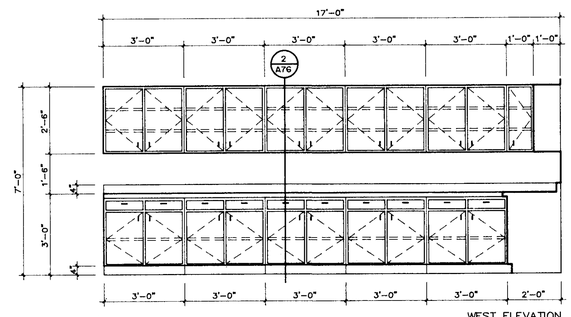


mw-3

mw-4 mw-10
mw-5 mw-11
mw-6 mw-12
mw-7 mw-13
mw-8 mw-14
mw-9 mw-15





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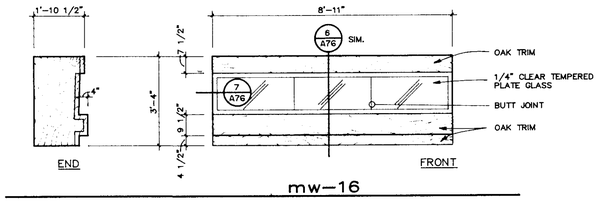
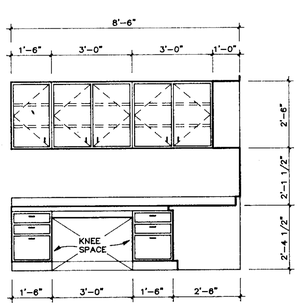
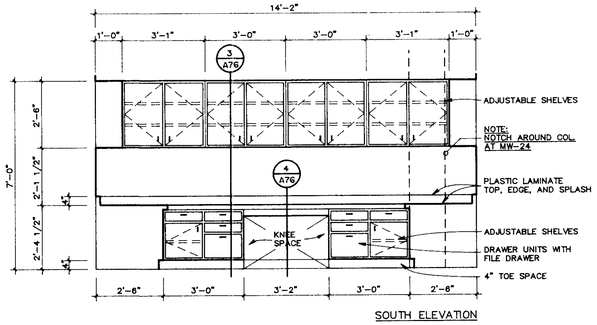


mw-16



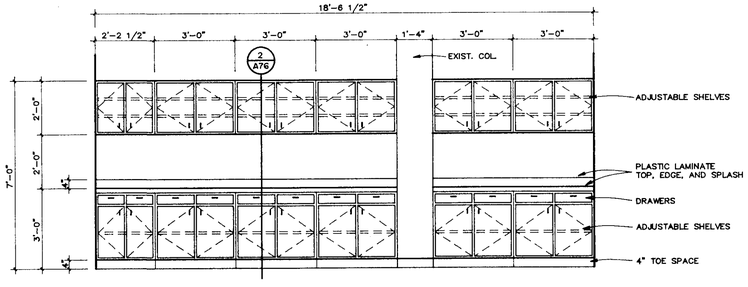
EAST ELEVATION
(WEST ELEVATION—OPP. HAND)



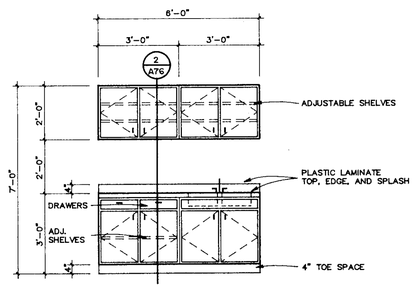
SOUTH ELEVATION

mw-23

mw-24 OPPOSITE HAND



mw-22



mw-17

millwork elevations

NOTE: SEE FLOOR PLANS

SCALE : 3/8" = 1'-0"

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A73
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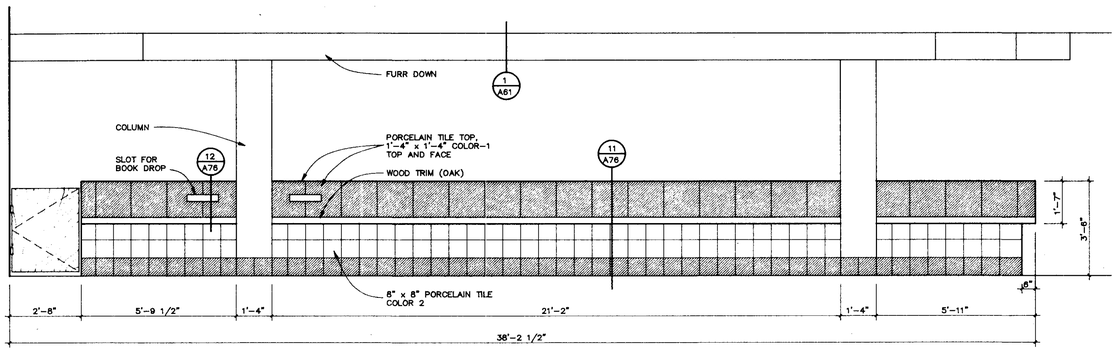
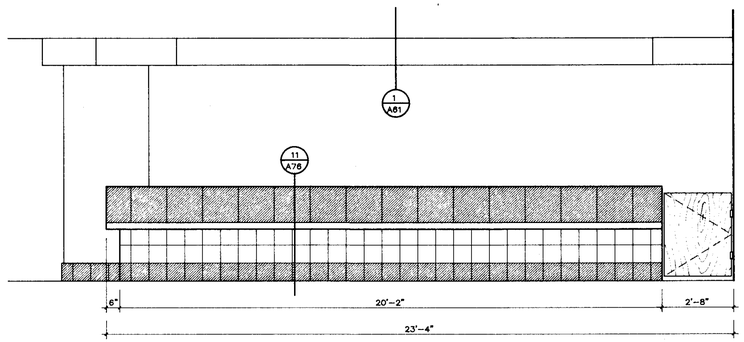
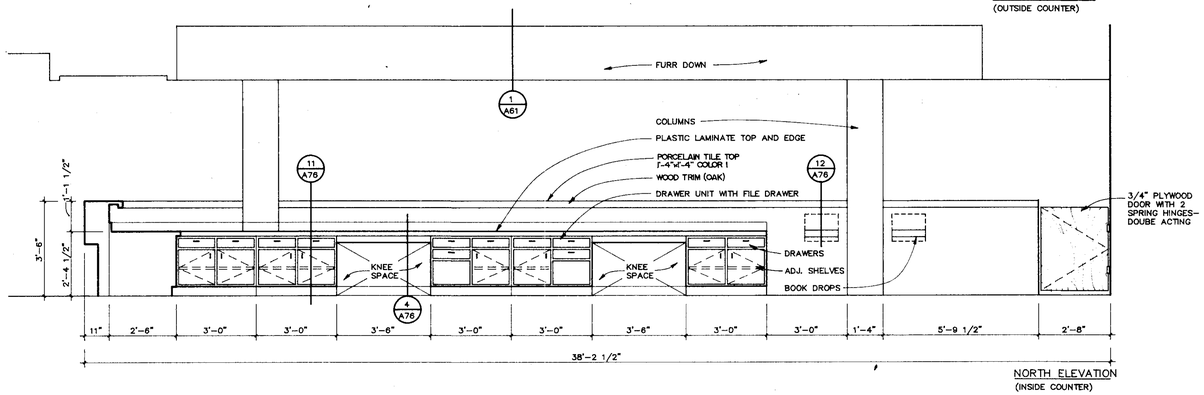


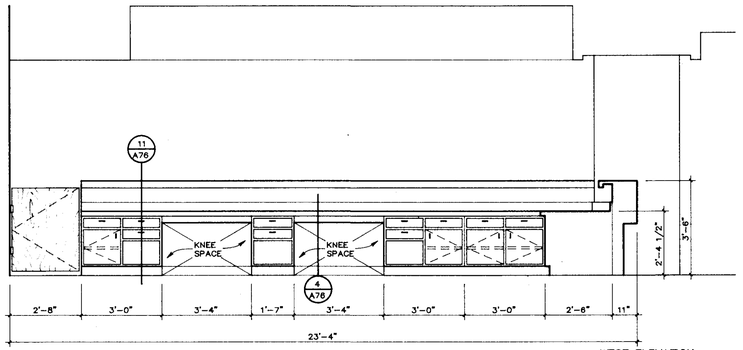
SOUTH ELEVATION
(OUTSIDE COUNTER)



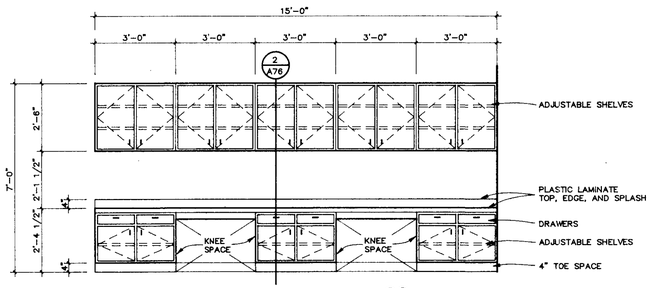
EAST ELEVATION
(OUTSIDE COUNTER)



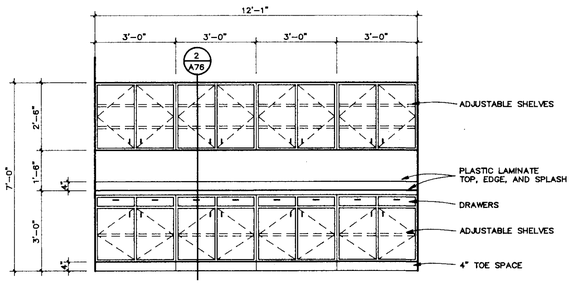
NORTH ELEVATION
(INSIDE COUNTER)



WEST ELEVATION
(INSIDE COUNTER)



mw-28



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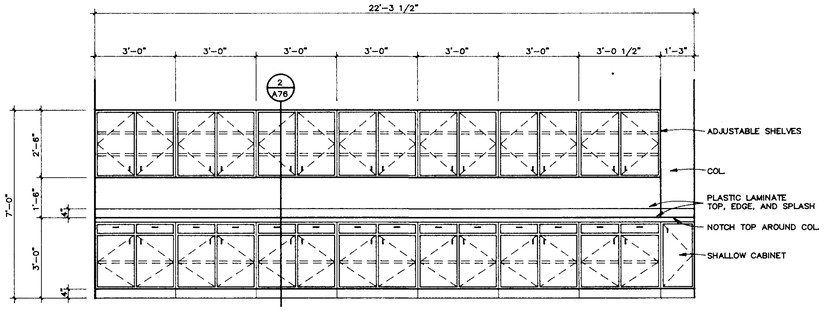

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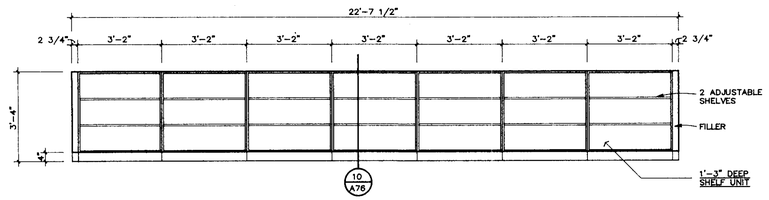

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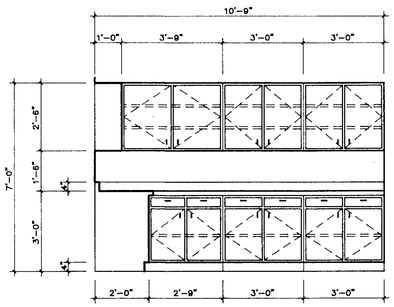

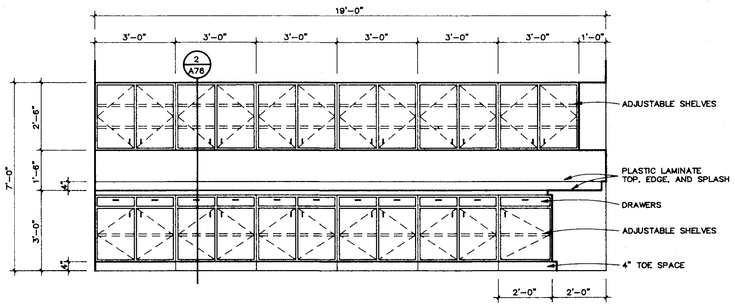

mw-29

millwork elevations

NOTE: SEE FLOOR PLANS

SCALE : 3/8" = 1'-0"

mw-25

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Brackett Krennerich and Associates PA

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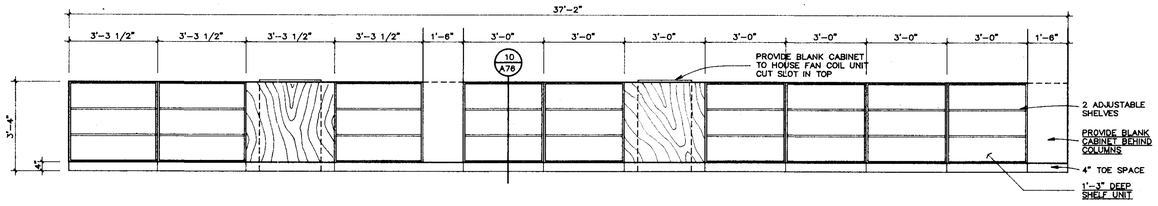
COMM. NO. 11990
A74
DATE: SEPT. 15, 1991



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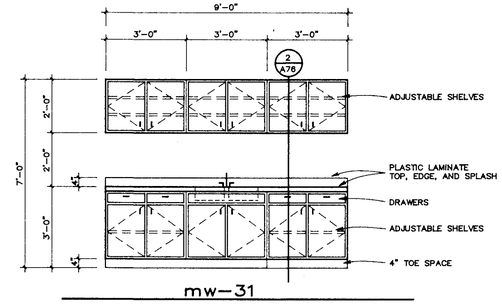

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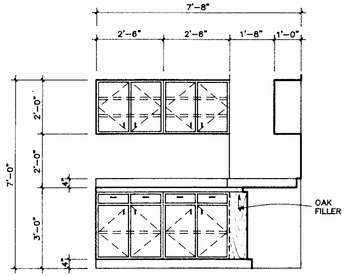
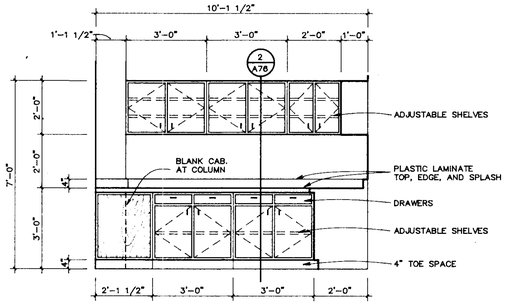
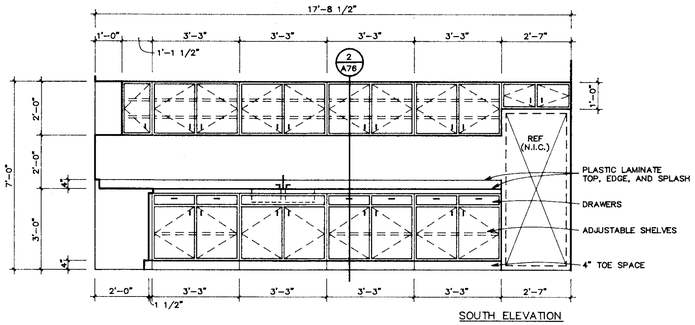


NORTH ELEVATION

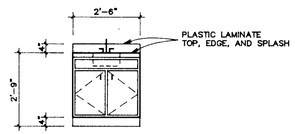


EAST ELEVATION



SOUTH ELEVATION

mw-39



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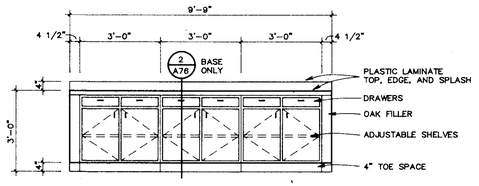

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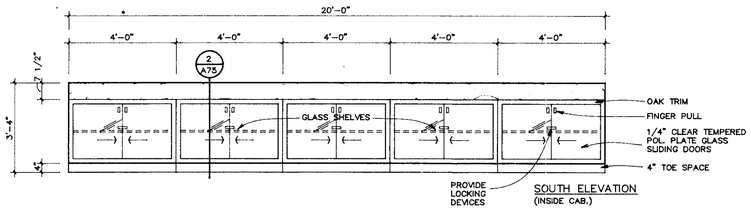
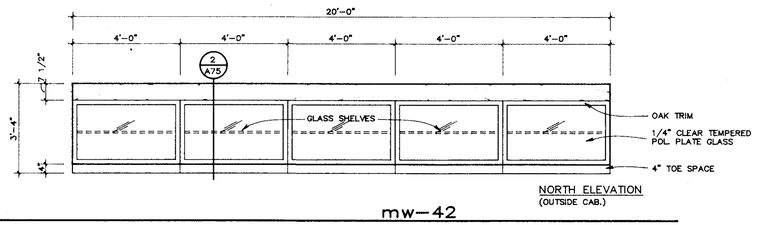


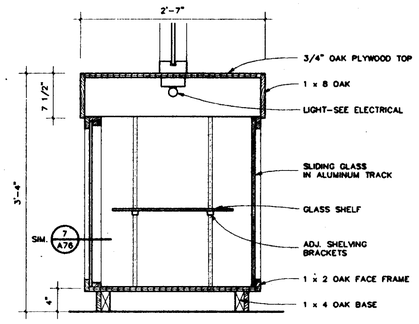
SOUTH ELEVATION
(INSIDE CAB.)



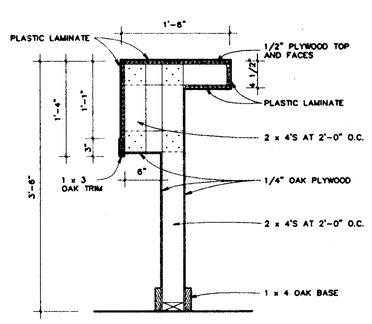
NORTH ELEVATION
(OUTSIDE CAB.)

mw-42

mw-34

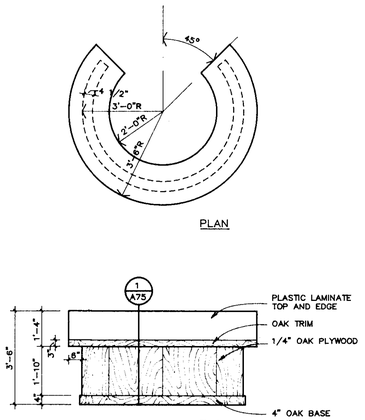


det. at display case (2)
(MW-42)
SCALE : 1" = 1'-0"

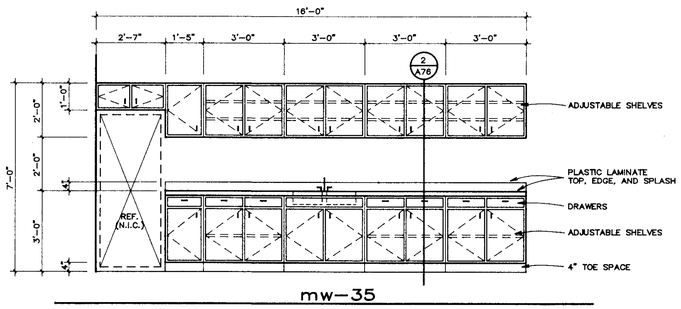


NOTE: UNIT TO BE MOVABLE

det. at kiosk (1)
SCALE : 1" = 1'-0"



mw-40
(KIOSK)
mw-41



mw-35

millwork elevations

NOTE: SEE FLOOR PLANS

SCALE : 3/8" = 1'-0"

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A75
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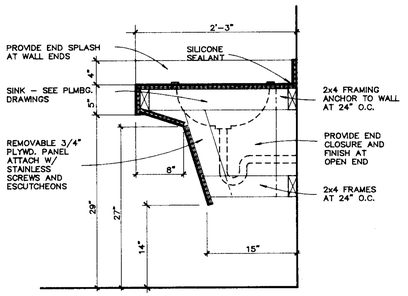
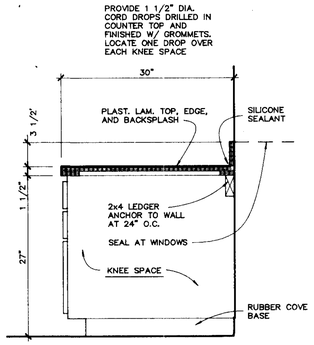


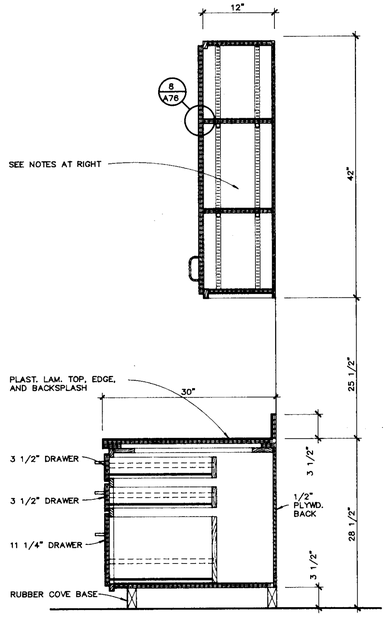
cab. section 5

SCALE : 1" = 1'-0"



cab. section 4

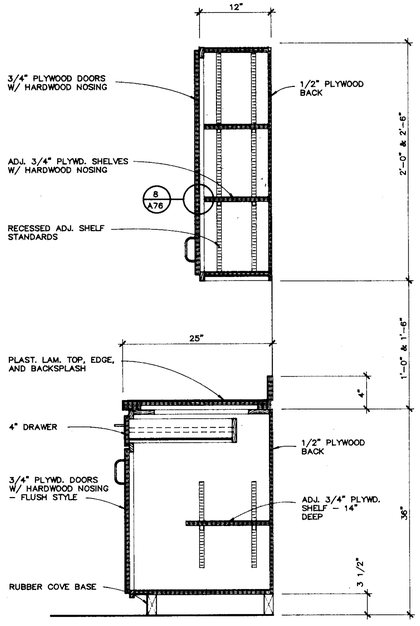
SCALE : 1" = 1'-0"



DRAWER UNIT SHOWN
CABINET UNIT SIMILAR

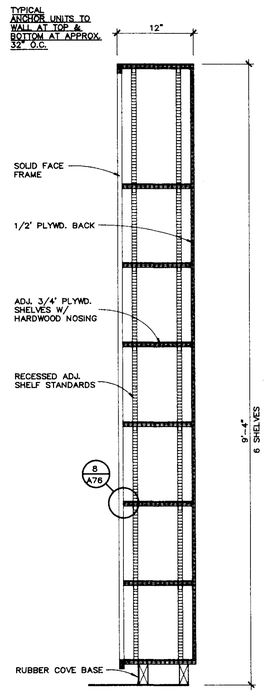
cab. section 3

SCALE : 1" = 1'-0"



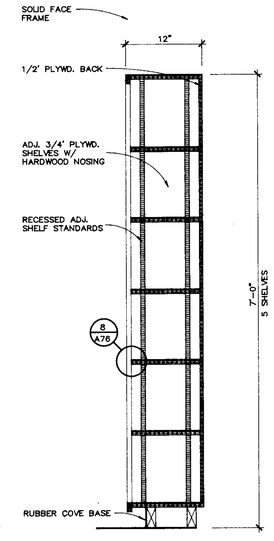
cab. section 2

SCALE : 1" = 1'-0"



shelf unit 1

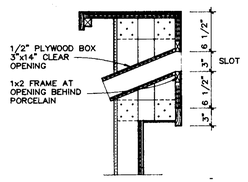
SCALE : 1" = 1'-0"



NOTE: SHELVING NOT SCHEDULED AS MILLWORK TYPICAL ABOVE; BUILD IN SECTIONS MAXIMUM OF 4'-0" WIDE. SEE SPECIFICATIONS FOR MATERIALS.

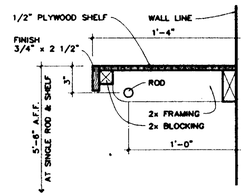
typ. shelving

SCALE : 1" = 1'-0"



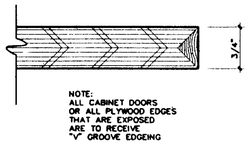
detail at book drop 12

MILLWORK NO. 25 SCALE : 1" = 1'-0"



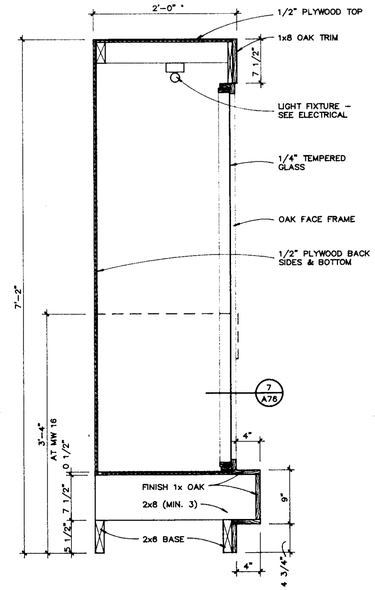
rod & shelf detail 9

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



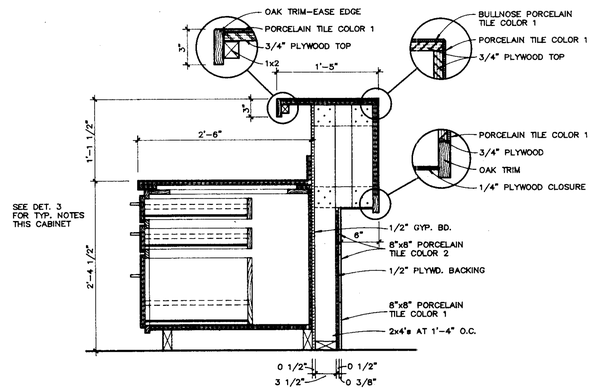
detail at nosing 8

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



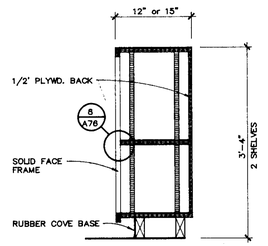
display case 6

SCALE : 1" = 1'-0"



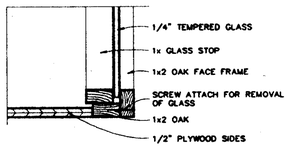
MILLWORK NO. 25 SCALE : 1" = 1'-0"

detail at circulation desk 11



shelf unit 10

SCALE : 1" = 1'-0"



detail at glass 7

SCALE : 3" = 1'-0"

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Architecture Engineering Planning

COMM. NO. 11990

A76

DATE: SEPT. 15, 1991

BRUNING 40-5020 32191

REMOVE EXIST. COOLING TOWERS & PUMPS AFTER NEW CHILLER/TOWERS ARE IN OPERATION. TOWERS AND PUMPS ARE TO BE RELOCATED AS REQ'D. FOR NEW BUILDING CONSTRUCTION. BOTH TOWERS MUST REMAIN IN OPERATION UNTIL NEW SYSTEMS ARE OPERATIONAL. PROVIDE TEMPORARY PIPING AS REQUIRED.

ABANDON 2" GAS

EXIST. 2" GAS

REMOVE 6" CONDENSING WATER PIPING

ABANDON EXIST. GAS LINE

CAP

NEW GAS LINE

ABANDON PIPING BELOW SLAB

CAP

REMOVE GAS REG. & 5" GAS SERVICE LINE

REMOVE EXIST. 2" GAS LINE & REG. STATION

REMOVE 6" CONDENSING WATER PIPING

REMOVE EXIST. STORM PIPING - ALSO SEE SHT. MP-8

EXIST. 2" GAS TO REMAIN

REMOVE THIS PORTION OF EXIST. GAS & WATER LINES. (FOR REROUTING AROUND NEW COOLING TOWERS)

EXISTING LIBRARY

EXIST. MUSEUM

EXIST. 4" GAS PIPING

EXIST. 12" WATER

EXIST.

ABANDON EXIST. 4" GAS LINE

STORM TO REMAIN

REMOVE EXIST. DRAIN

REMOVE EXIST. STORM LINE

REMOVE WATER VALVE BOX

REMOVE FIRE HYDRANT

REMOVE EXIST. DRAINS

CAP

REMOVE WATER LINE

ABANDON 4" GAS

ABANDON EXIST. GAS LINE

CAP GAS

12" WATER TO REMAIN

EXIST. 4" GAS AND 12" WATER TO REMAIN

EXIST. GAS TO REMAIN

EXIST. TUNNEL

MECHANICAL DEMOLITION SITE PLAN

1"-30'-0"

NORTH

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Brackett Krennerich and Associates, Inc.

COMM. NO. 11990

MP1

DATE: SEPT. 15, 1994

Architect Engineer Planners

PLUMBING DEMOLITION NOTES

1. THE EXISTING SANITARY SEWER SYSTEM MUST REMAIN IN USE DURING DEMOLITION AND CONSTRUCTION. IF ANY OF THE PIPING IS DAMAGED OR HAS TO BE RE-ROUTED BECAUSE OF THE CONSTRUCTION OF THE NEW BUILDING FOOTINGS, DRILLED PIERS, GRADE BEAMS, ETC., THE CONTRACTOR MUST PROVIDE TEMPORARY SERVICE, AS FIELD CONDITIONS PERMIT, UNTIL THE NEW SANITARY SEWER PIPING CAN BE INSTALLED. ANY TEMPORARY SERVICE WOULD HAVE TO BE APPROVED BY THE OWNER. THE EXACT LOCATION OF THE BELOW GRADE AND FLOOR SLAB SEWER PIPING MUST BE FIELD VERIFIED AS REQUIRED. AFTER ALL FOUNDATION WORK IS COMPLETE AND BEFORE FIRST FLOOR SLAB IS POURED, THE NEW SEWER SYSTEM SHALL BE INSTALLED.

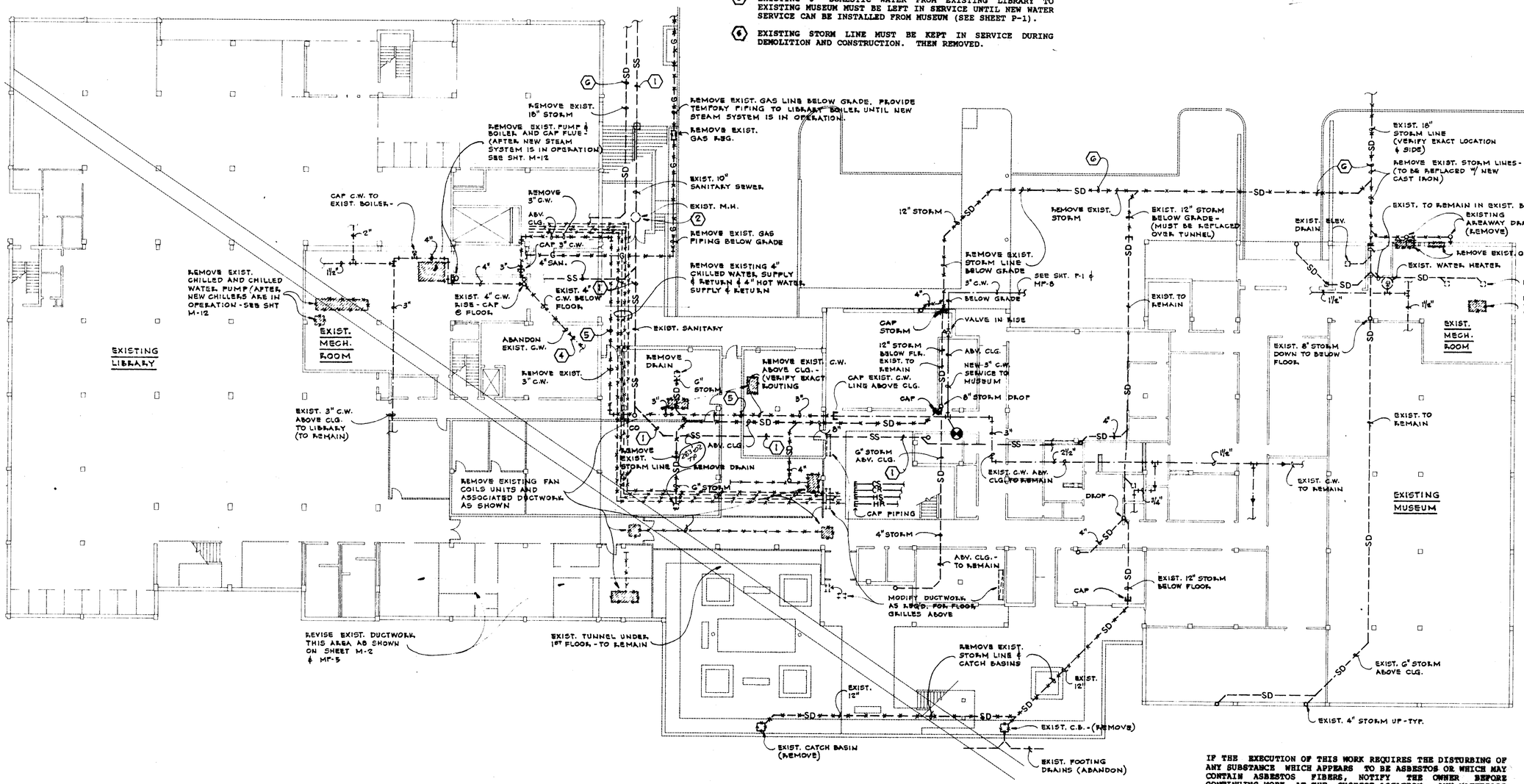
2. EXISTING SANITARY SEWER MANHOLE, 8'-5" DEEP. REMOVE CAST IRON COVER AND CONSTRUCT A TEMPORARY COVER (3'-0" +/- ABOVE INVERT) TO PREVENT MANHOLE FROM FILLING WITH DEBRIS WHEN SURROUNDING FLOOR SLAB IS REMOVED AND NEW FOOTINGS ARE INSTALLED. USE STEEL PIPE LEGS TO SUPPORT TOP FROM FLOOR OF MANHOLE. PROVIDE TOP OF STEEL OR CONCRETE, TIGHT TO WALLS OF MANHOLE. WHEN NEW SEWER LINE AND NEW MANHOLE IS INSTALLED, FILL IN THE REMAINDER OF EXISTING MANHOLE.

3. REMOVE EXISTING 4" GAS PIPE AT CEILING.

4. EXISTING 4" DOMESTIC WATER SERVICE, BELOW GRADE, FROM NORTH SIDE OF BUILDING. THIS LINE MUST BE KEPT IN SERVICE UNTIL NEW WATER SERVICE CAN BE RUN IN EXISTING TUNNEL AND RECONNECTED INTO THIS SYSTEM AT EXISTING MECHANICAL ROOM. (SAME CONDITIONS AS NOTE #1 ABOVE.)

5. EXISTING 3" DOMESTIC WATER FROM EXISTING LIBRARY TO EXISTING MUSEUM MUST BE LEFT IN SERVICE UNTIL NEW WATER SERVICE CAN BE INSTALLED FROM MUSEUM (SEE SHEET P-1).

6. EXISTING STORM LINE MUST BE KEPT IN SERVICE DURING DEMOLITION AND CONSTRUCTION. THEN REMOVED.



FIRST FLOOR MECHANICAL DEMOLITION PLAN

1/16"-1'-0"

NORTH

IF THE EXECUTION OF THIS WORK REQUIRES THE DISTURBING OF ANY SUBSTANCE WHICH APPEARS TO BE ASBESTOS OR WHICH MAY CONTAIN ASBESTOS FIBERS, NOTIFY THE OWNER BEFORE CONTINUING WORK AT THE SUSPECT LOCATION. ANY MATERIALS TESTING POSITIVE WILL BE REMOVED BY THE OWNER BEFORE WORK CONTINUES.

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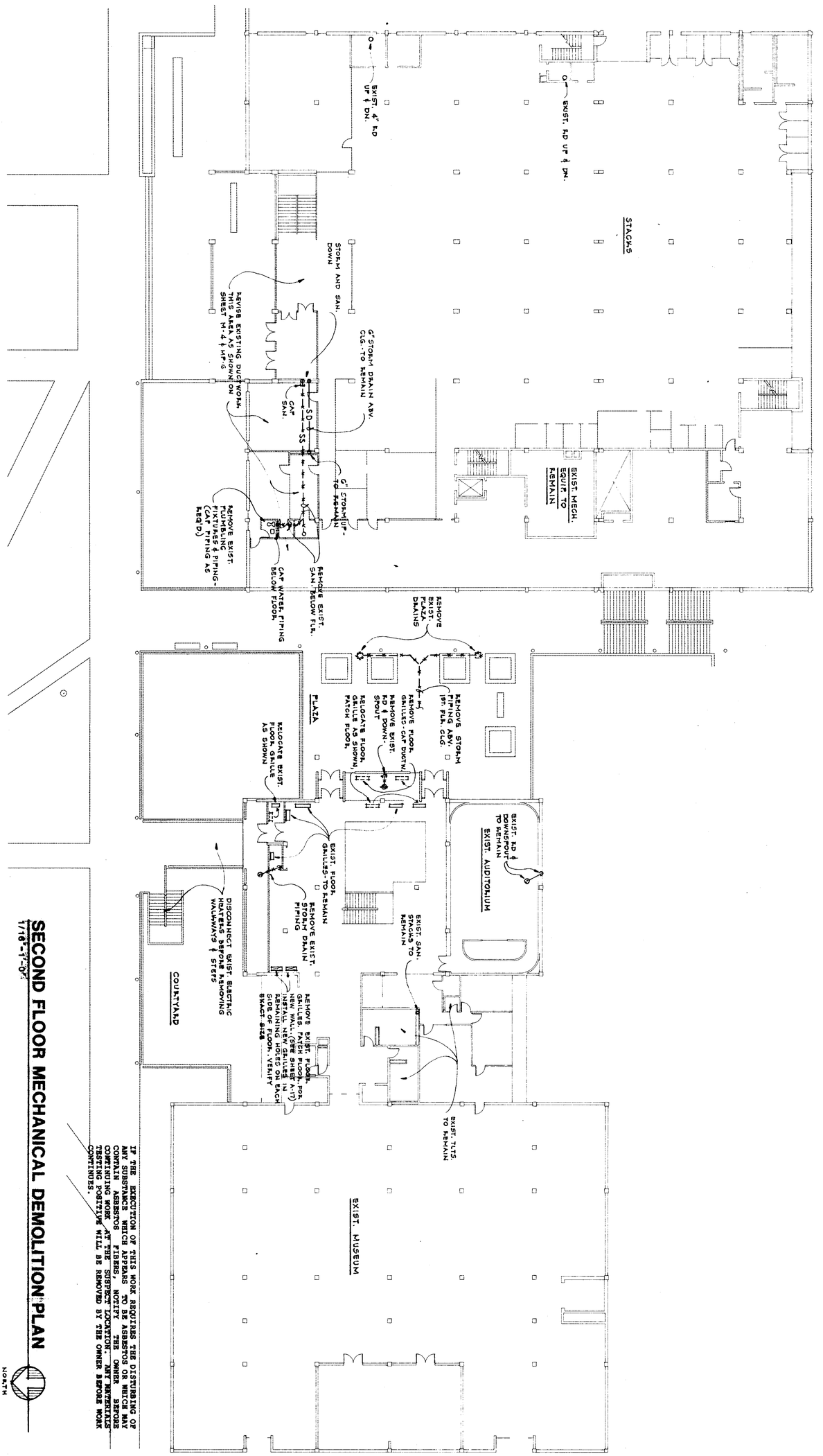
CONST. NO. 11960
MP2
DATE: SEPT. 15, 1999

BRUNING 40-5020 321891

BRUNING, 40-5020 321891



SECOND FLOOR MECHANICAL DEMOLITION PLAN

1/16"-1'-0"

NORTH

IF THE EXECUTION OF THIS WORK REQUIRES THE DISTURBING OF ANY SUBSTANCE WHICH APPEARS TO BE ASBESTOS OR WHICH MAY CONTAIN ASBESTOS FIBERS, NOTIFY THE OWNER BEFORE COMMENCING WORK AT THE SUSPECT LOCATION. ANY MATERIALS REASONABLY SUSPECTED OF CONTAINING ASBESTOS FIBERS WILL BE REMOVED BY THE OWNER BEFORE WORK CONTINUES.

COMM. NO. 11980
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DATED: SEPT. 16, 1991

Brackett Krennerich and Associates P.A.

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THIRD FLOOR MECHANICAL DEMOLITION PLAN

1/16"-1'-0"

NORTH

IF THE EXECUTION OF THIS WORK REQUIRES THE DISTURBING OF ANY SUBSTANCE WHICH APPEARS TO BE ASBESTOS OR WHICH MAY CONTAIN ASBESTOS FIBERS, NOTIFY THE OWNER BEFORE CONTINUING WORK AT THE SUSPECT LOCATION. ANY MATERIALS TESTING POSITIVE WILL BE REMOVED BY THE OWNER BEFORE WORK CONTINUES.

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Brackett Krennerich and Associates Ltd

Architects Engineers Planners

COMM. NO. 11990

MPA

DATE: SEPT. 15, 1991

BRUNING, 40-0020 32181

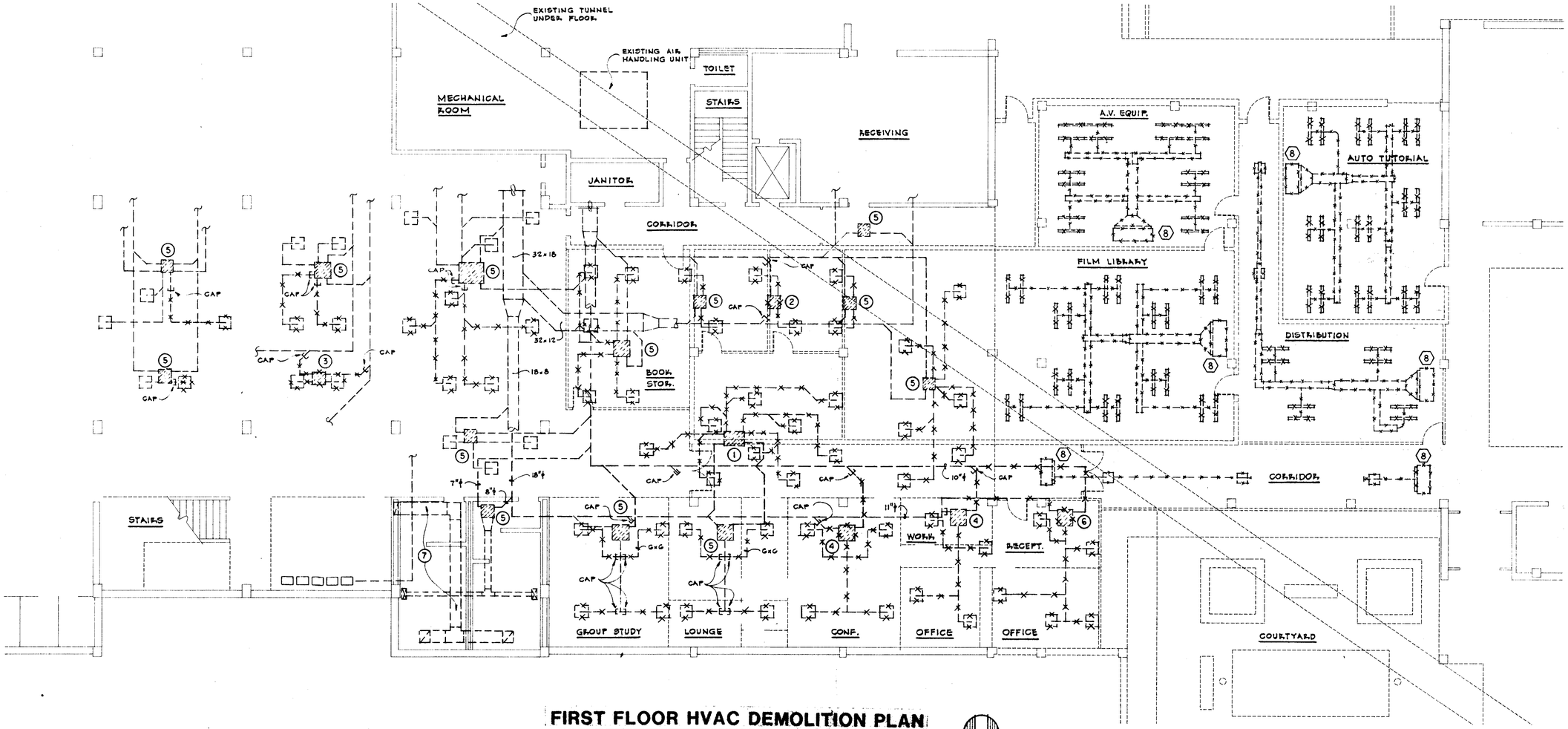
KEYED DEMOLITION NOTES :

(SEE SHEET M-2 FOR REVISED PLAN)

1. RELOCATE DOUBLE DUCT BOX TO MEDIA SERVICES AREA.
2. RELOCATE DOUBLE DUCT BOX TO PREVIEW AREA.
3. RELOCATE DOUBLE DUCT BOX TO EDIT. ROOM.
4. RELOCATE DOUBLE DUCT BOX TO MEDIA PRESENTATION AREA.
5. EXISTING DOUBLE DUCT BOX TO REMAIN.
6. RELOCATE TO COMPUTER RM. AREA.
7. EXHAUST DUCTWORK TO REMAIN
8. REMOVE EXIST. FAN COIL UNIT & ASSOCIATED PIPING, DUCTWORK & CONTROLS.

GENERAL NOTES :

1. CONTRACTOR IS TO VERIFY LOCATION OF EXISTING TERMINALS & DUCTWORK.
2. NEW THERMOSTATS ARE TO BE PROVIDED FOR RELOCATED BOXES. REMOVE EXIST. THERMOSTATS & CAP PIPING IN CEILING.



FIRST FLOOR HVAC DEMOLITION PLAN

PART "B" 1/8"=1'-0"

NORTH

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Architects Engineers Planners

COMM. NO. 11990

MP5

DATE: SEPT. 15, 1991

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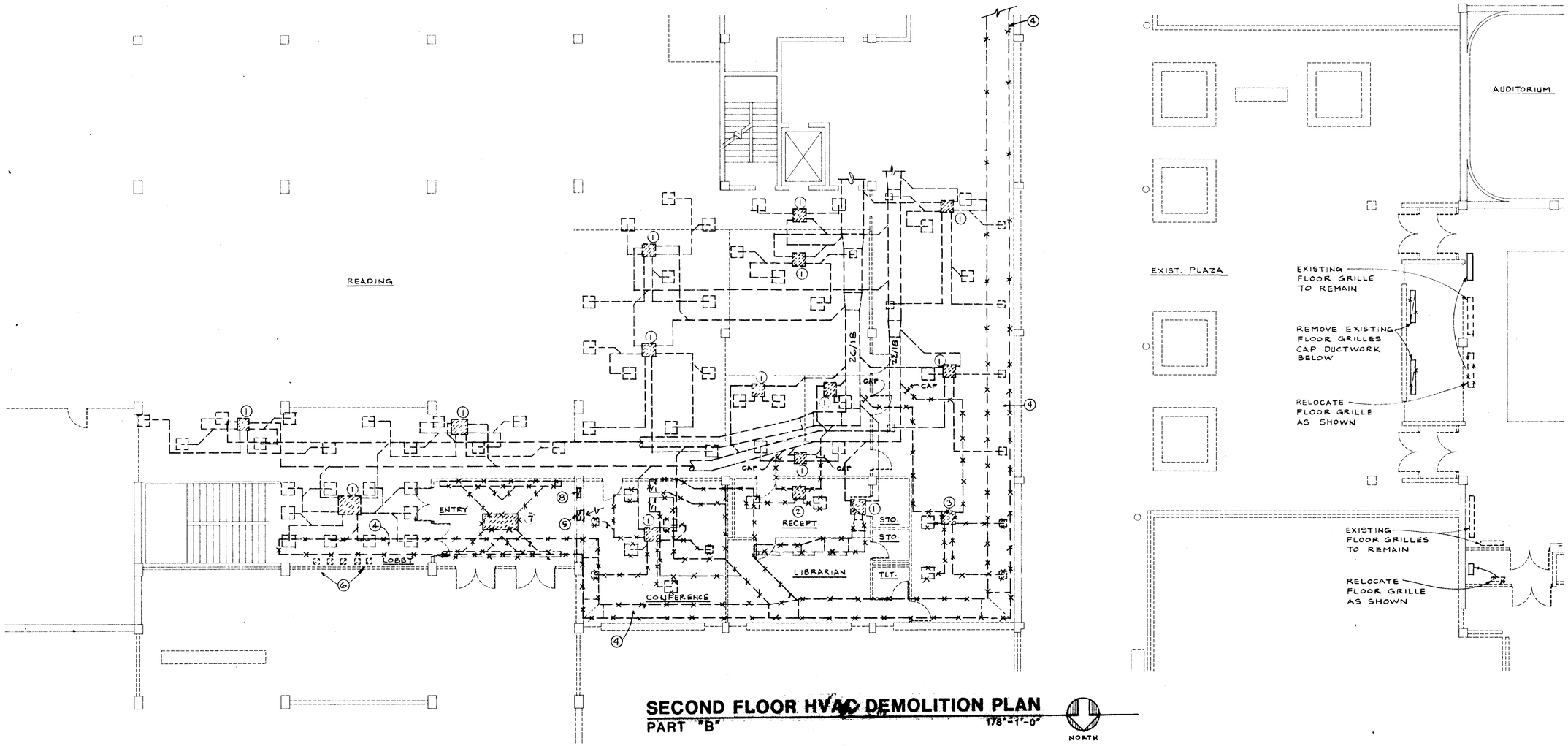
KEYED DEMOLITION NOTES :

1. EXISTING DOUBLE DUCT BOX TO REMAIN.
2. EXISTING DOUBLE DUCT BOX TO BE REMOVED.
3. EXISTING DOUBLE DUCT BOX TO BE RELOCATED TO CONTROL ROOM ON 1ST FLR.
4. EXISTING RETURN DUCTWORK TO BE REMOVED
5. REMOVE RETURN DUCTWORK AND WALL RETURN GRILLE
6. REMOVE FLOOR RETURN GRILLES-PATCH FLOOR
7. REMOVE EXISTING UNIT HEATER, DUCTWORK, PIPING AND ASSOCIATED CONTROLS.
8. EXISTING EXHAUST DUCT TO REMAIN.



SECOND FLOOR HVAC DEMOLITION PLAN
PART "B"

1/8"=1'-0"

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DATE: SEPT. 15, 1991

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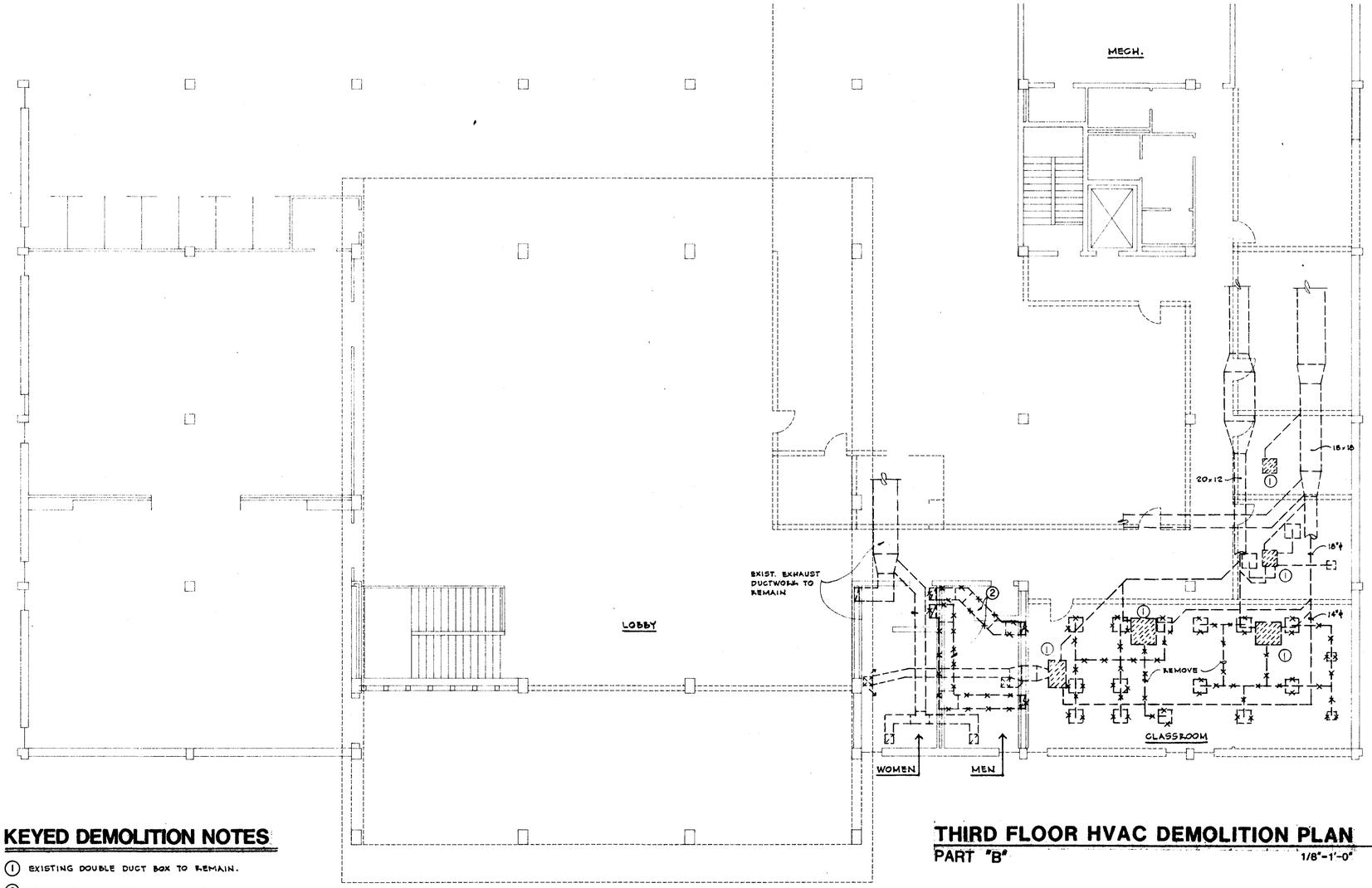

KEYED DEMOLITION NOTES

1. EXISTING DOUBLE DUCT BOX TO REMAIN.
2. REMOVE RETURN DUCTWORK AS SHOWN.

THIRD FLOOR HVAC DEMOLITION PLAN

PART "B"

1/8"=1'-0"

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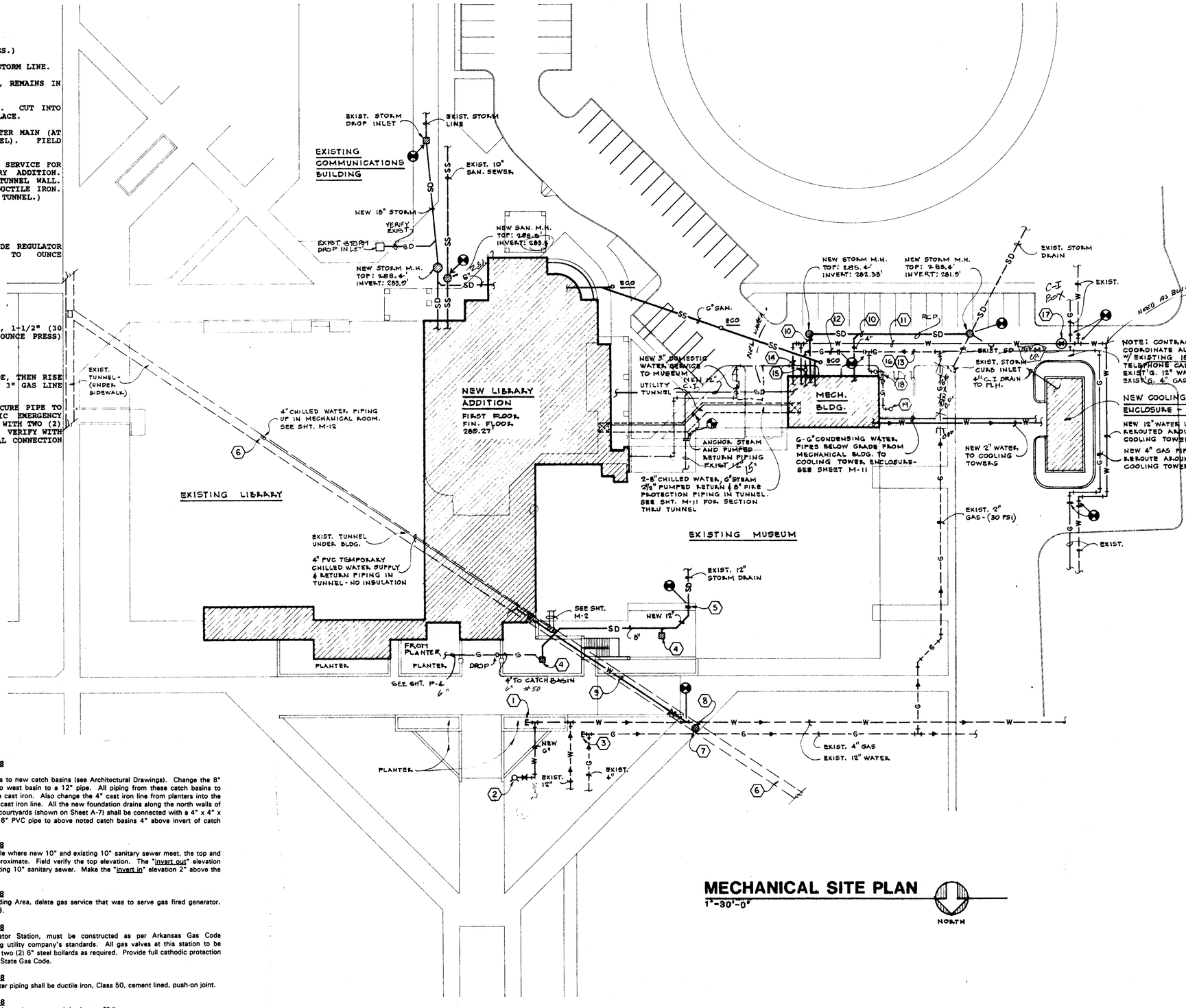
COMM. NO. 11990

MP7

DATE: SEPT. 15, 1991

PLUMBING NOTES

1. CAP EXISTING WATER LINE.
2. NEW FIRE HYDRANT. VERIFY EXACT LOCATION.
3. CAP EXISTING GAS LINE.
4. NEW CATCH BASIN. (SEE ARCHITECTURAL DRAWINGS.)
5. CONNECT NEW CATCH BASINS INTO EXISTING 12" STORM LINE.
6. EXISTING UTILITY TUNNEL UNDER NEW ADDITION, REMAINS IN PLACE. FIELD VERIFY EXACT LOCATION.
7. NEW MANHOLE COVER AND FRAME (WATER TIGHT). CUT INTO EXISTING TUNNEL TOP. GROUT AND SECURE IN PLACE.
8. CONNECT NEW 4" WATER INTO EXISTING 12" WATER MAIN (AT POINT WHERE 12" WATER LINE CROSSES TUNNEL). FIELD VERIFY EXACT LOCATION OF THIS CONNECTION.
9. NEW 4" WATER LINE. THIS IS THE NEW WATER SERVICE FOR THE EXISTING LIBRARY AND THE NEW LIBRARY ADDITION. PROVIDE NEW PIPING SUPPORTS ANCHORED TO TUNNEL WALL. NEW PIPING SHALL BE CEMENT MORTAR LINED, DUCTILE IRON. (NOTE: NO SOLDERING OR WELDING IN EXISTING TUNNEL.)
10. NEW 18" STORM LINE.
11. NEW 8" FIRE AND DOMESTIC WATER SERVICE.
12. NEW 2" (30 PSI) GAS SERVICE LINE. PROVIDE REGULATOR STATION AT BUILDING WALL, 30 PSI TO OUNCE PRESSURE. 1,000 CFH DEMAND.
13. EXISTING 2" GAS (30 PSI).
14. NEW 4" DOMESTIC WATER SERVICE.
15. NEW 8" FIRE SERVICE LINE.
16. NEW GAS REGULATOR, FOR EMERGENCY GENERATOR, 1-1/2" (30 PSI) SERVICE LINE TO REGULATOR (LBS. TO OUNCE PRESS) 1600 CFH DEMAND.
17. NEW VALVE IN CAST IRON BOX.
18. 3" GAS LINE FROM REGULATOR DOWN BELOW GRADE, THEN RISE UP THRU SLEEVE, INSIDE ELECTRIC YARD. RUN 3" GAS LINE ON SLAB NEXT TO BUILDING TO GENERATOR.
19. 3" GAS LINE ON SLAB NEXT TO BUILDING. SECURE PIPE TO WALL AND CONNECT AS REQUIRED TO ELECTRIC EMERGENCY GENERATOR. CLEAN, PRIME AND PAINT GAS LINE WITH TWO (2) COATS OF EPOXY PAINT (COLOR TO MATCH WALL). VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUGH IN AND FINAL CONNECTION REQUIREMENTS.



MECHANICAL SITE PLAN

1"=30'-0"

45. **DRAWINGS, SHEET MP-8**

    Note #4 this sheet refers to new catch basins (see Architectural Drawings). Change the 8" storm from east basin to west basin to a 12" pipe. All piping from these catch basins to existing 12" line shall be cast iron. Also change the 4" cast iron line from planters into the east catch basin to a 6" cast iron line. All the new foundation drains along the north walls of New Addition, planters, courtyards (shown on Sheet A-7) shall be connected with a 4" x 4" x 6" wye and run a solid 6" PVC pipe to above noted catch basins 4" above invert of catch basin, if possible.

46. **DRAWINGS, SHEET MP-8**
    The new sanitary manhole where new 10" and existing 10" sanitary sewer meet, the top and invert elevations are approximate. Field verify the top elevation. The "invert out" elevation will be same as the existing 10" sanitary sewer. Make the "invert in" elevation 2" above the existing line.

47. **DRAWINGS, SHEET MP-8**
    At new Mechanical Building Area, delete gas service that was to serve gas fired generator. Delete Note #18 and #19.

48. **DRAWINGS, SHEET MP-8**
    Note #12, Gas Regulator Station, must be constructed as per Arkansas Gas Code requirements and serving utility company's standards. All gas valves at this station to be lubricated type. Provide two (2) 6" steel bollards as required. Provide full cathodic protection as required by Arkansas State Gas Code.

49. **DRAWINGS, SHEET MP-8**
    All new below grade water piping shall be ductile iron, Class 50, cement lined, push-on joint.

50. **DRAWINGS, SHEET MP-8**
    Change 4" cast iron line from planter to catch basin to a 6" line.

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SHEET NO. THIS MP8

BRUNING 40-0020 32191

51. **DRAWINGS, SHEET M-1**
A. Provide two 24" x 24" return grilles in Corridor 121 ceiling.
B. Provide 36" x 10" return air opening with fire damper above door between Corridor 121 and Service Corridor 123.

FIRST FLOOR HVAC PLAN

PART A

1/4"-1'-0"

NORTH

KEY PLAN

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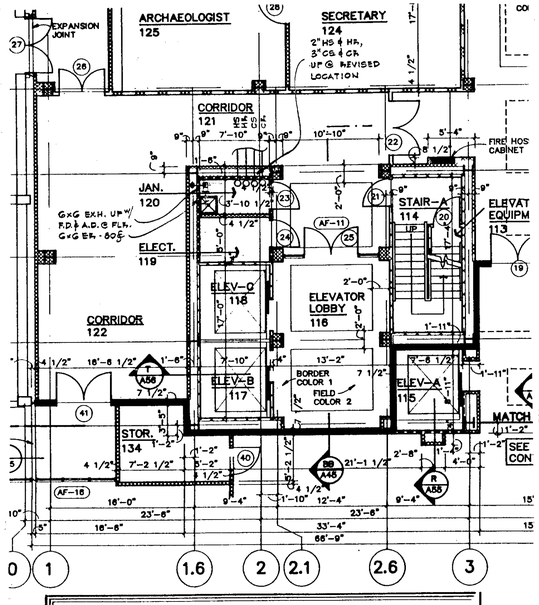
Architecture Engineering Planning

DRWG. NO. 17090
M1
DATE: SEPT. 15, 1995

BRUNING 40-5020 321891


ARCHAEOLOGIST
125
SECRETARY
124
2"HS & HR, 3"CS & CR UP & REVISED LOCATION
EXPANSION JOINT
CORRIDOR
121
JAN.
120
ELECT.
119
GXG EXH. UP W/ F.D.H.A.D.S FLR. GXG EXH. SOS
STAIR-A
114
UP
FIRE HOSE CABINET
ELEVAT EQUIPM
113
ELEV-C
118
ELEV-B
117
ELEVATOR LOBBY
116
ELEV-A
115
BORDER COLOR 1
FIELD COLOR 2
CORRIDOR
122
STOR.
134
MATCH
SEE CON
REVISED FIRST FLOOR HVAC PIPING
REFER TO SHT. M-1
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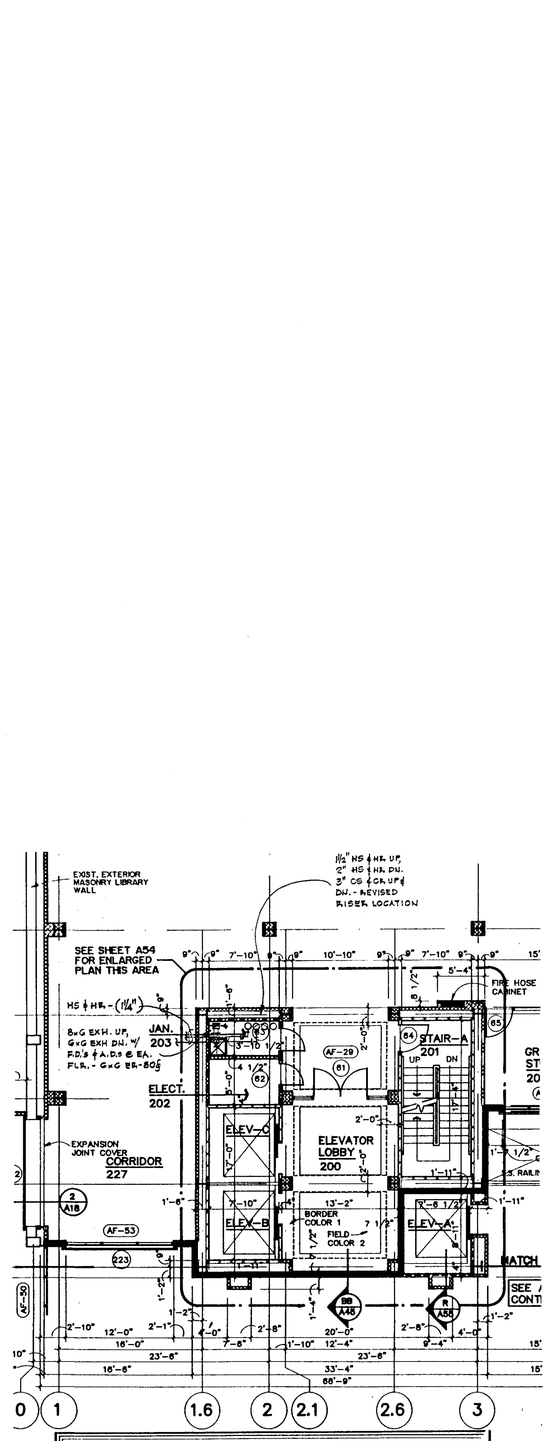
H.W. GOODMAN JR., ENGINEERS, INC.
CONSULTING ENGINEERS
LITTLE ROCK, ARKANSAS
JOB NO.
DATE
3-25-92
SHEET NO.



REVISED SECOND FLOOR HVAC PIPING & DUCTWORK

REFER. TO SHT. M-3

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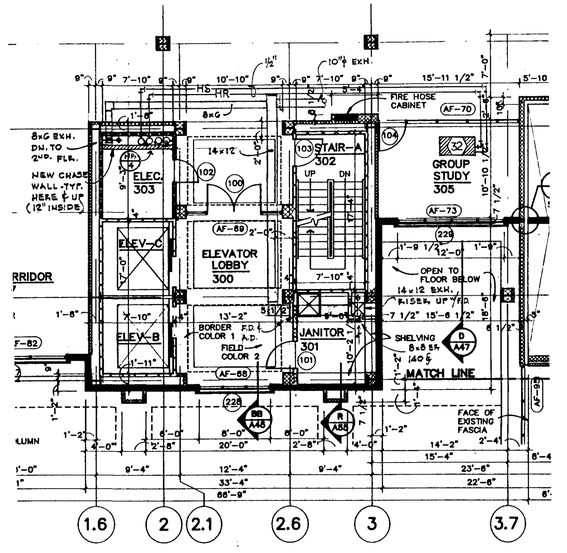

REVISED THIRD THRU EIGHTH FLOOR HVAC PLAN PIPING & DUCTWORK

REFER TO SHT. M-5

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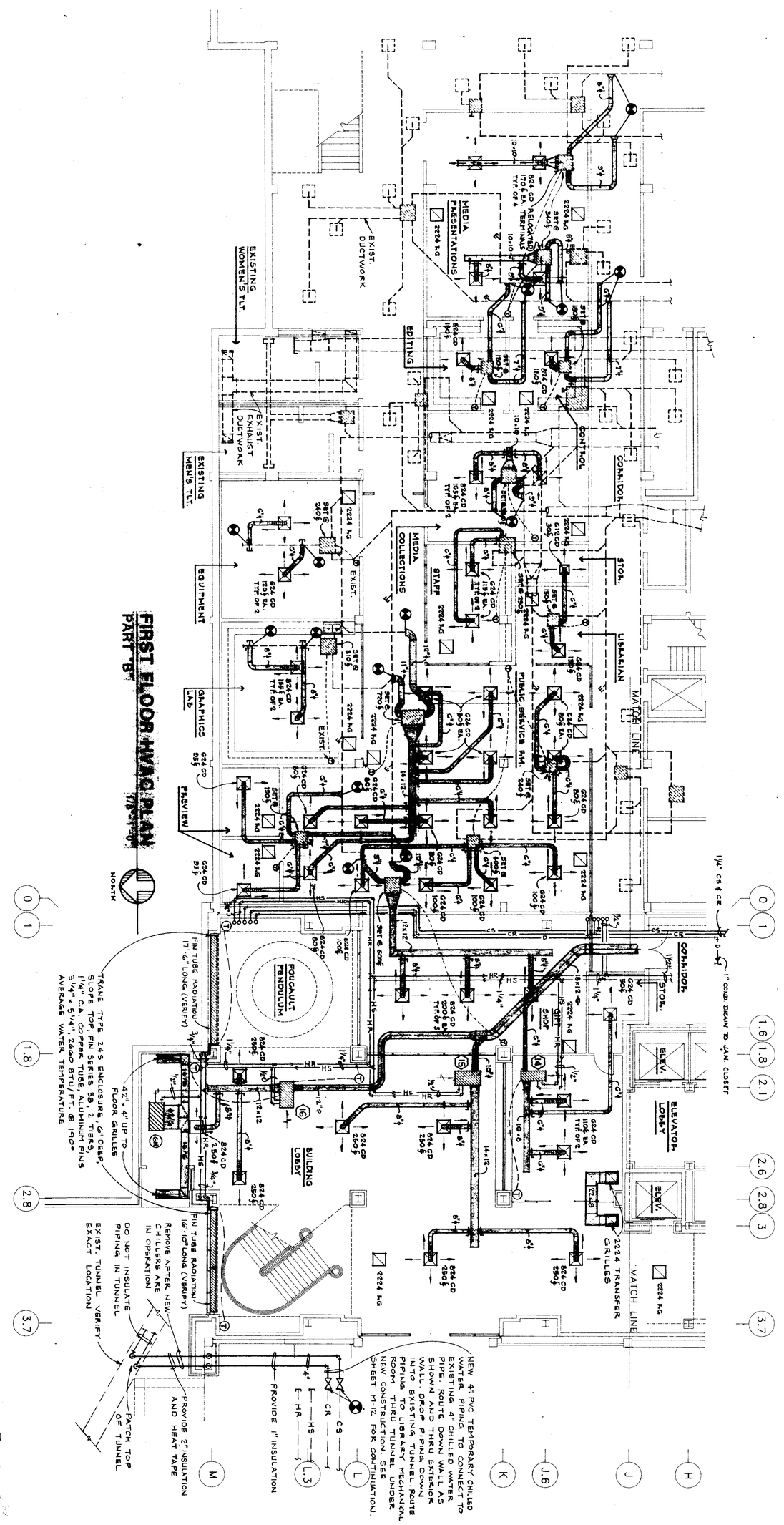
JOB NO.

DATE 3-25-92

SHEET NO.

BRUNING 40-5020 321891



KEY PLAN

ORIG. NO. 11990
M2
DATE: SEPT. 15, 1994

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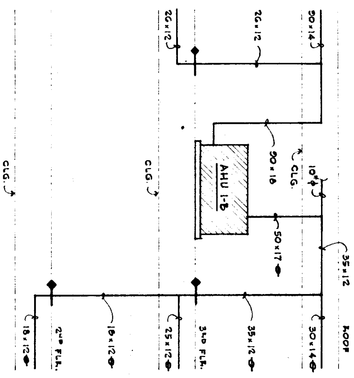
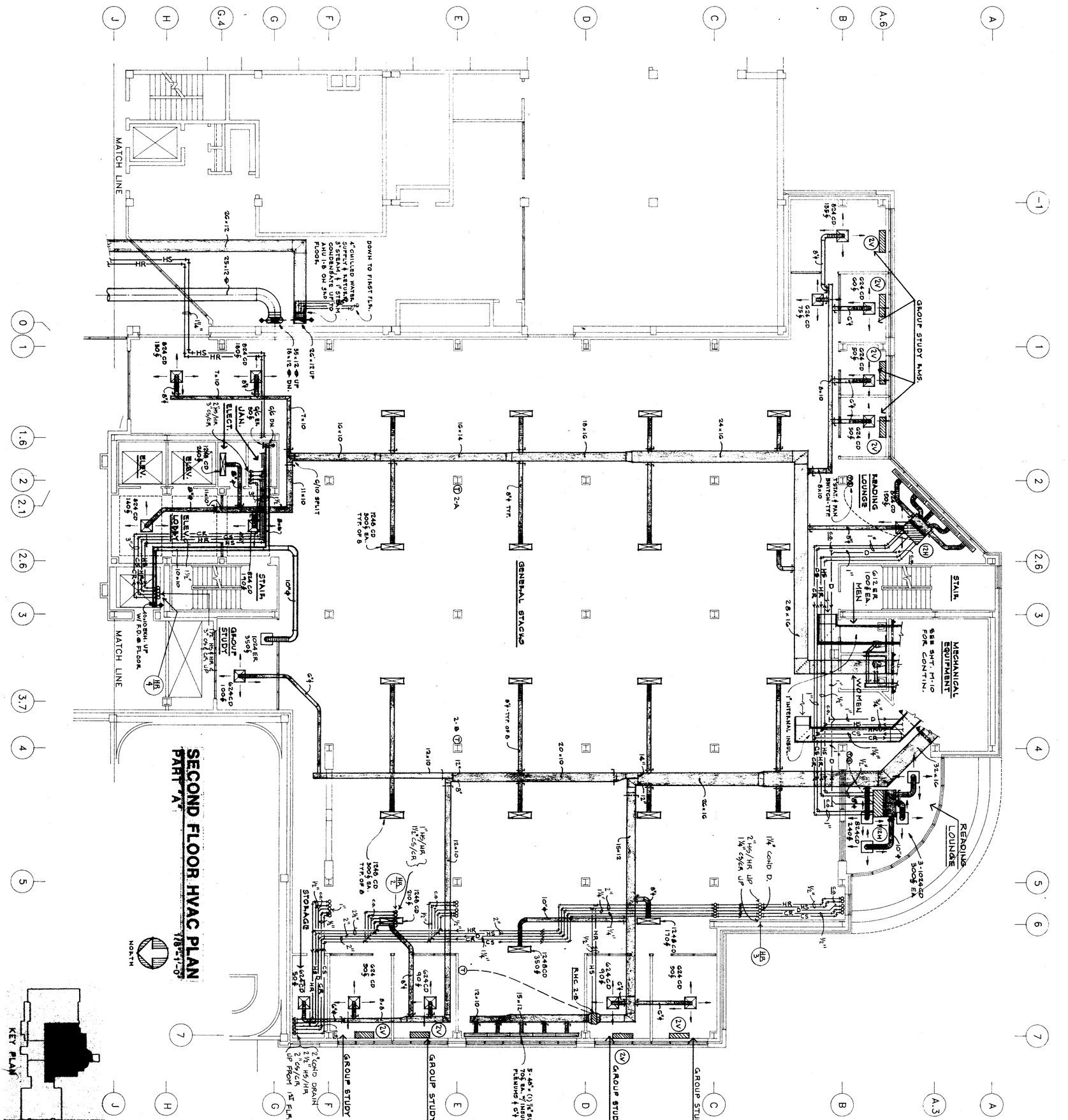
BRUNING, 40-5020 321691

1 DUCTWORK FROM AHU 1-B
NTS





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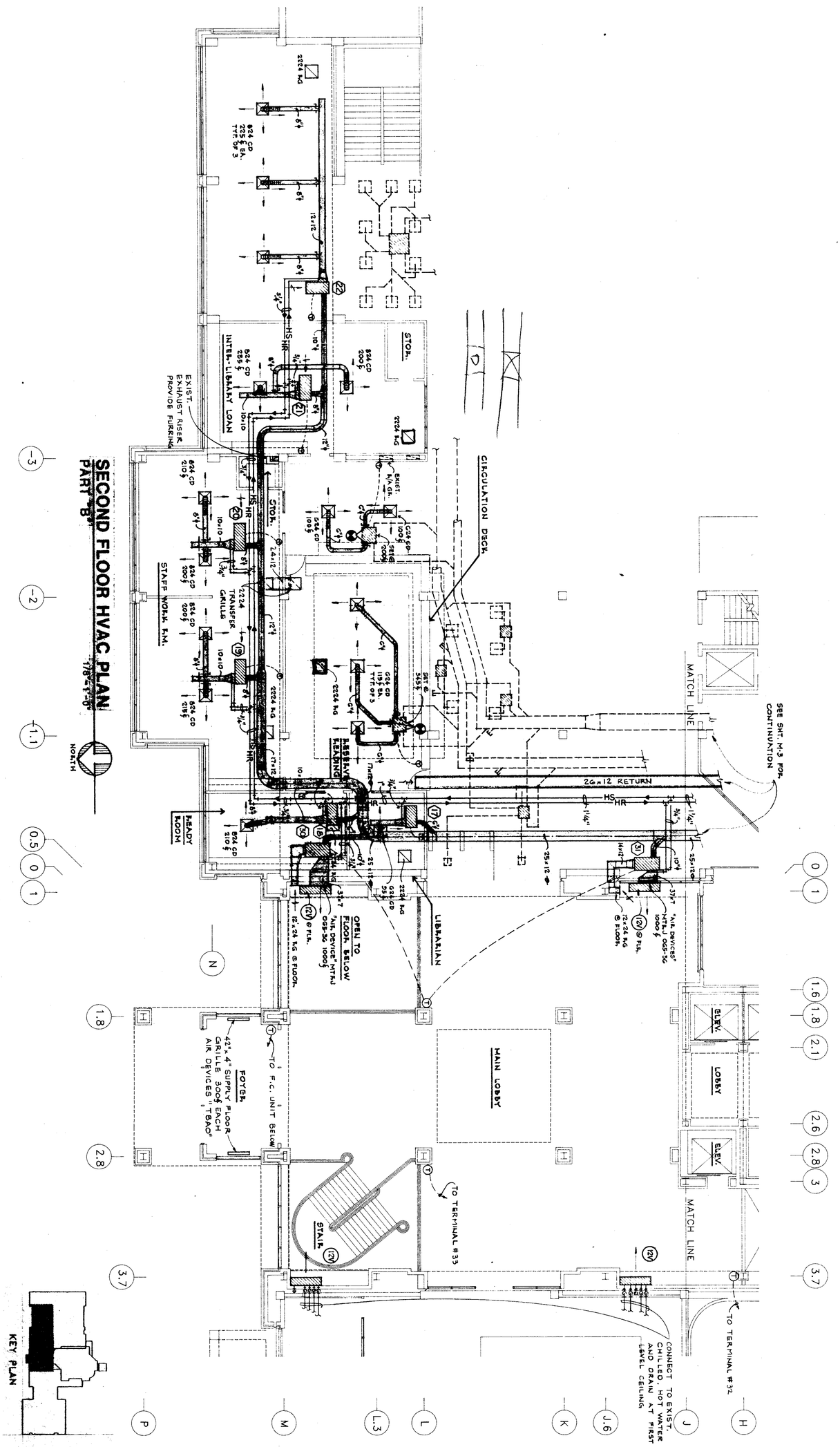

ORIG. NO. 11080	M4
DATED SEPT. 15, 1989	

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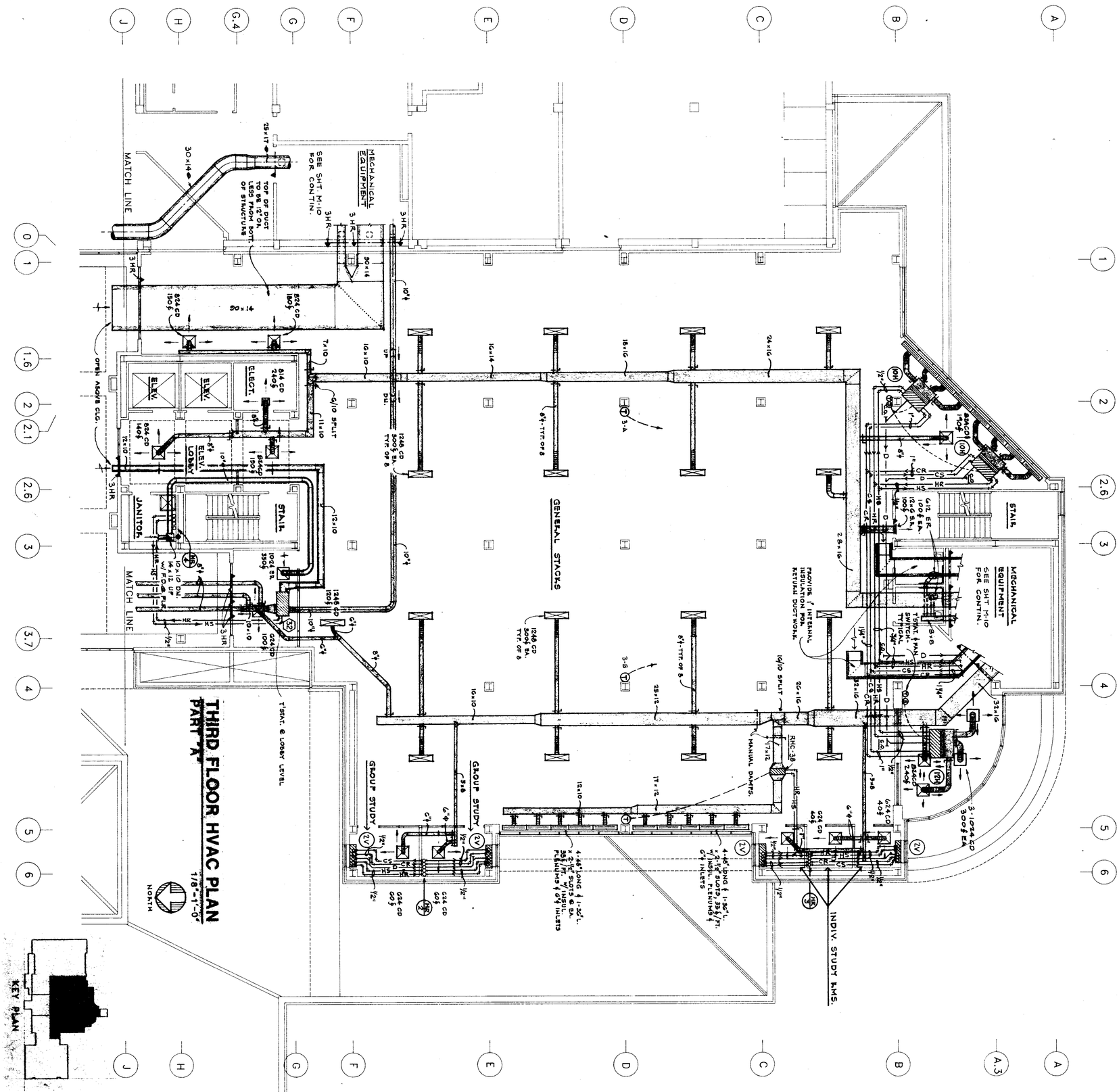

CODE NO. 11880
M5
DATE: SEPT. 15, 1981

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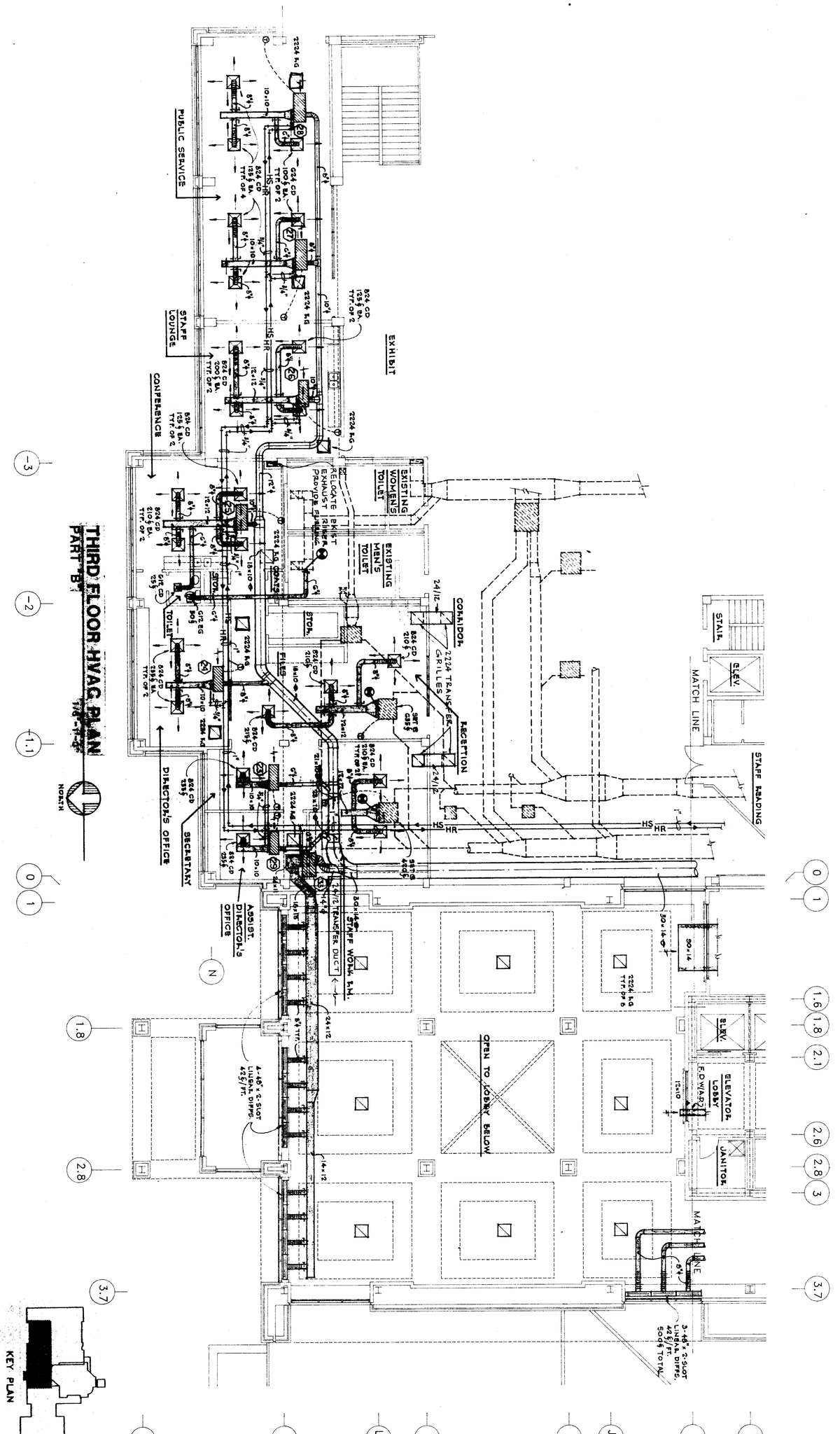

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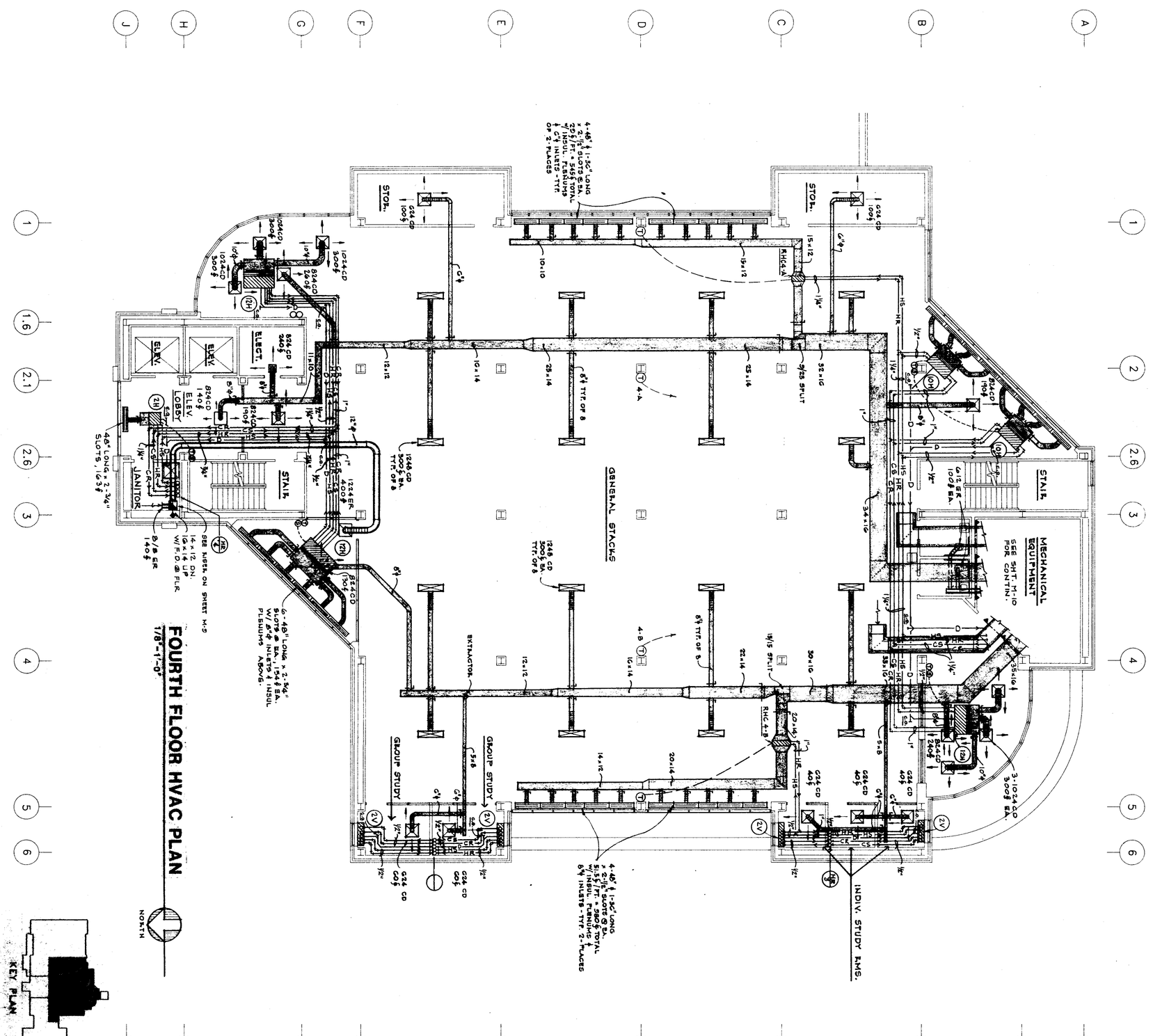
GENERAL STACKS
STAIR
STAIR
ELEV.
ELEV.
ELEC.
ELEV. LOBBY
JANITOR
MECHANICAL EQUIPMENT
SEE SHT. M-10 FOR CONTIN.
GROUP STUDY
GROUP STUDY
INDIV. STUDY RMS.
EXTRACTOR
STOR.
STOR.
RISER A
RISER B
4-48" L. x 1-36" LONG SLOTS @ EA. x 2-3/4" SLOTS, 154 @ EA. W/ INSUL. PLENUMS & 6" INLETS - TYP. OF 2 PLACES
4-48" L. x 1-36" LONG SLOTS @ EA. x 2-3/4" SLOTS, 154 @ EA. W/ INSUL. PLENUMS & 6" INLETS - TYP. 2 PLACES
6-48" LONG x 2-3/4" SLOTS @ EA., 154 @ EA. W/ 6" INLETS & INSUL PLENUMS ABOVE
SEE RISER ON SHEET M-9
48" LONG x 2-3/4" SLOTS, 160 @
1024CD 300 @
1024CD 300 @
824CD 220 @
824CD 190 @
824CD 140 @
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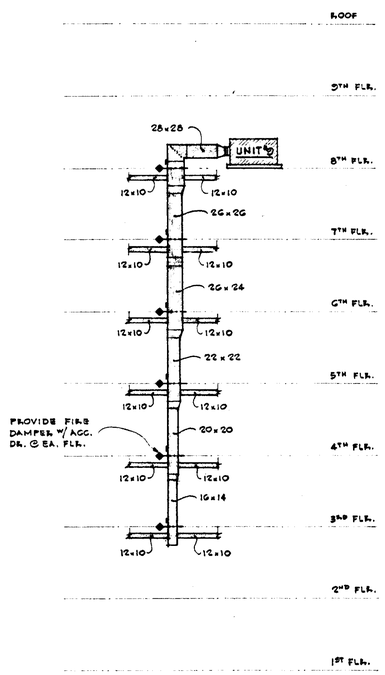
1024CD 300 @
1024CD 300



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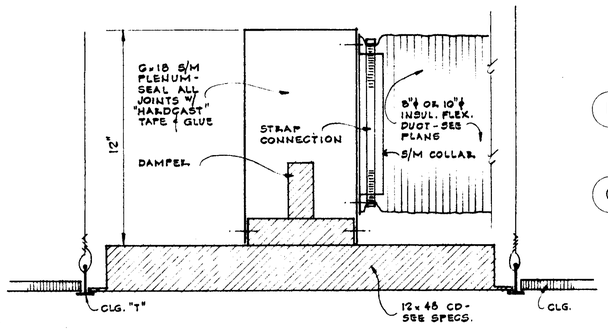

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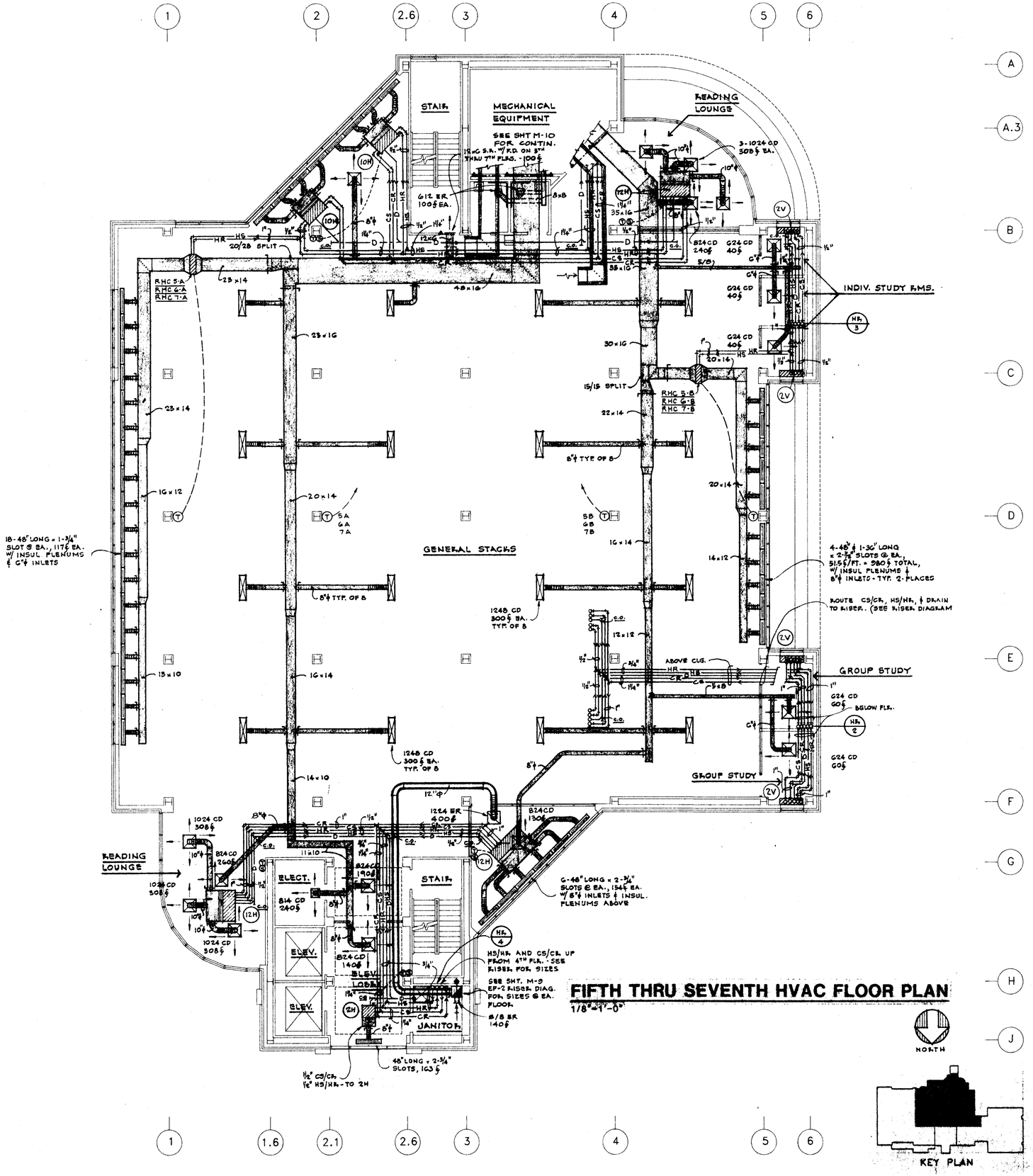

FIFTH THRU SEVENTH HVAC FLOOR PLAN
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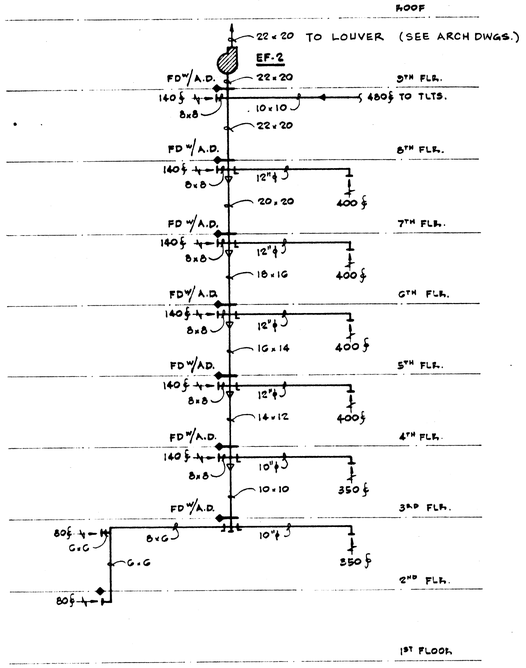
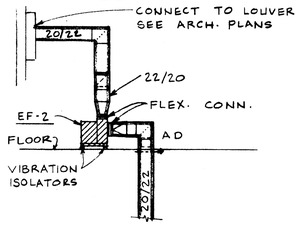
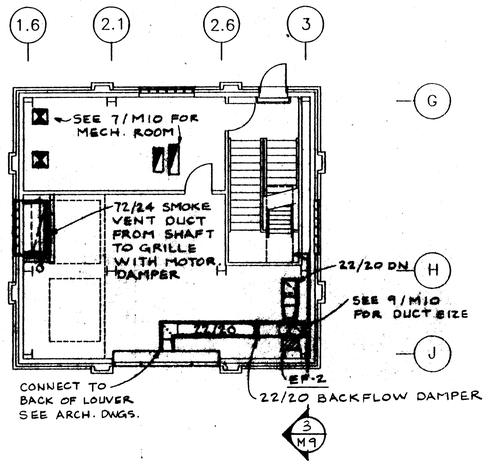


4 EF-2 EXHAUST RISER DIAGRAM



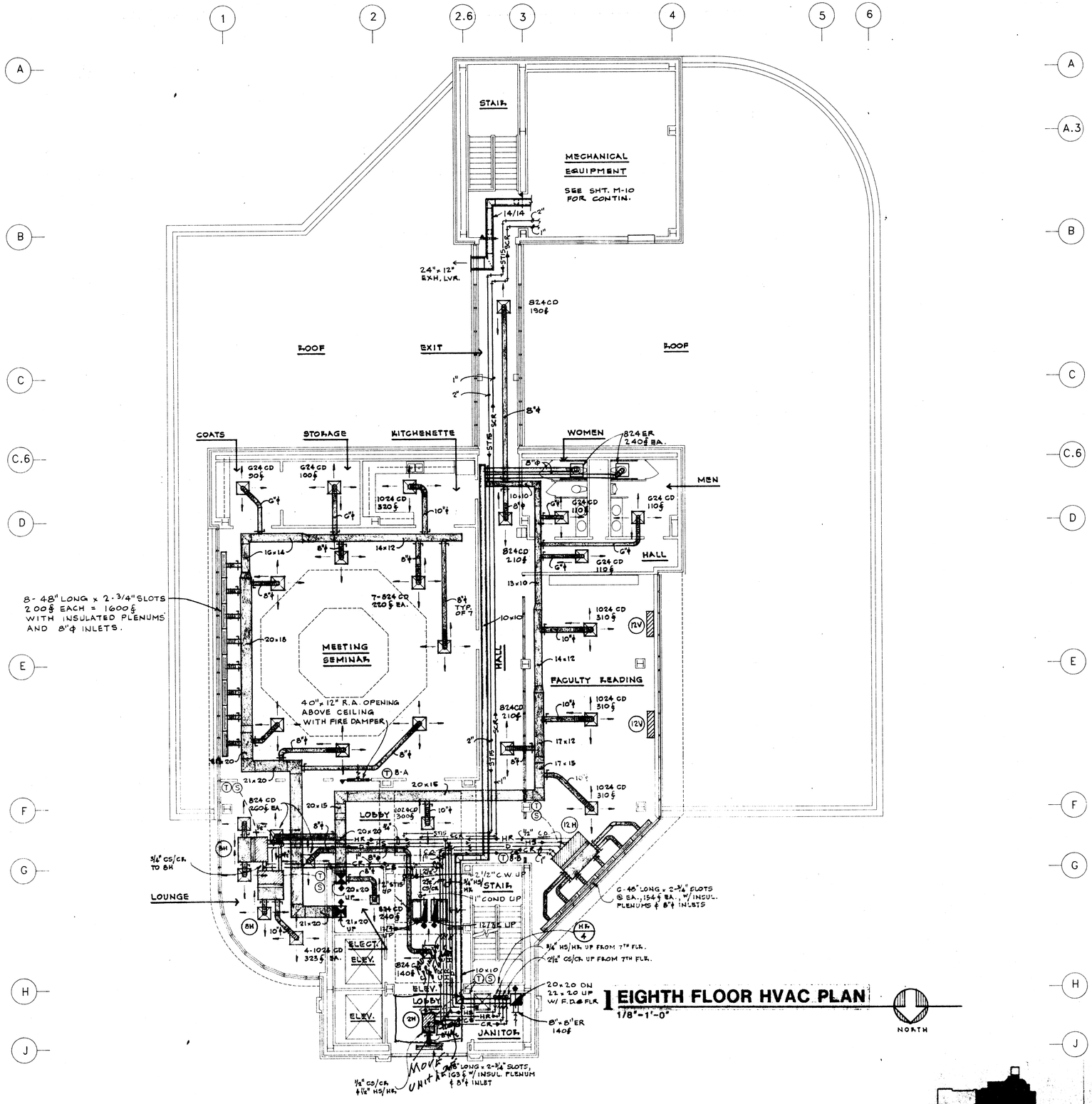
3 SECTION

1/8"-1'-0"



2 NINTH FLOOR HVAC PLAN

1/8"-1'-0"



1 EIGHTH FLOOR HVAC PLAN

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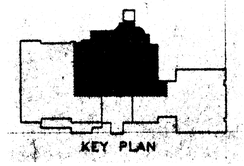

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COMM. NO. 11980

M9

DATE: SEPT. 15, 1981

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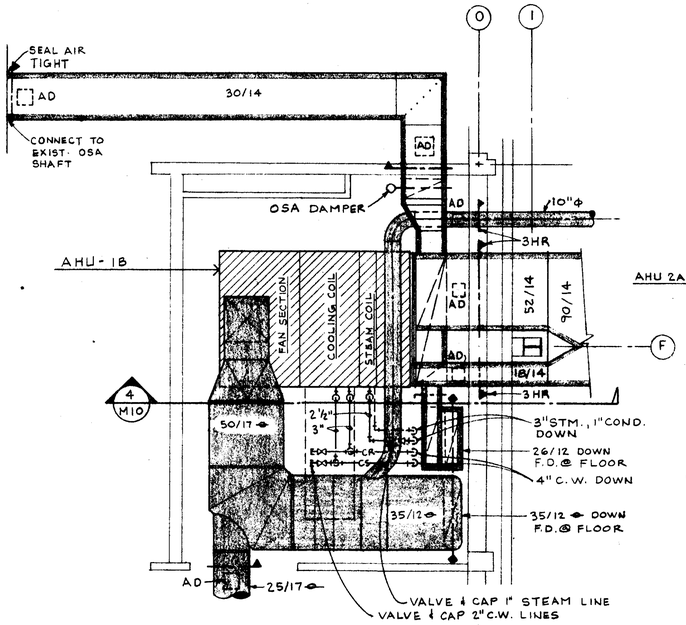

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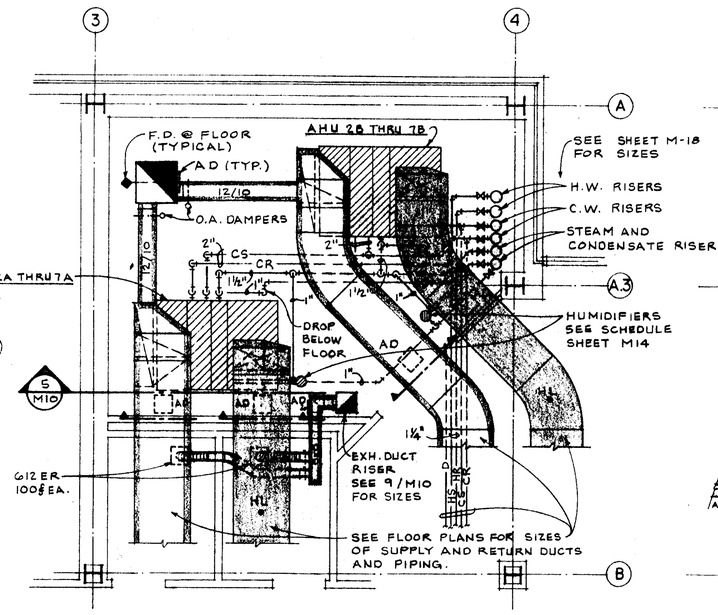
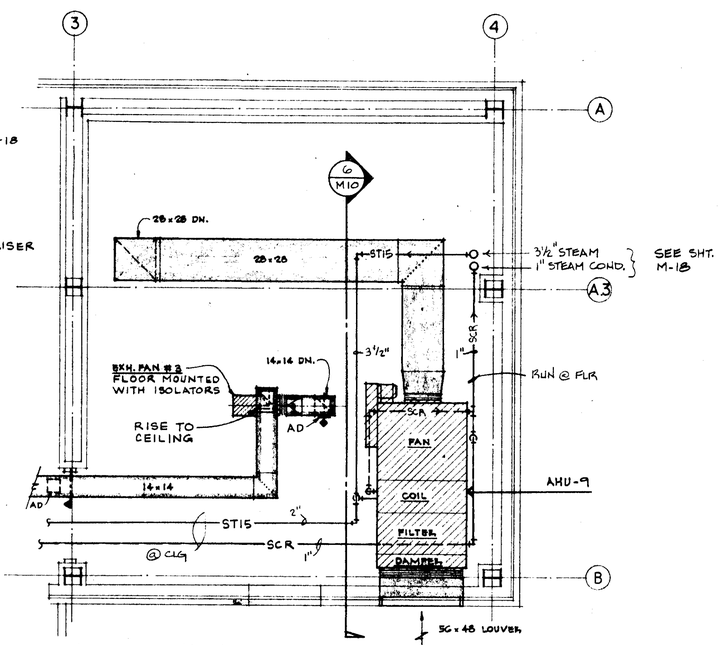
1/4"=1'-0"

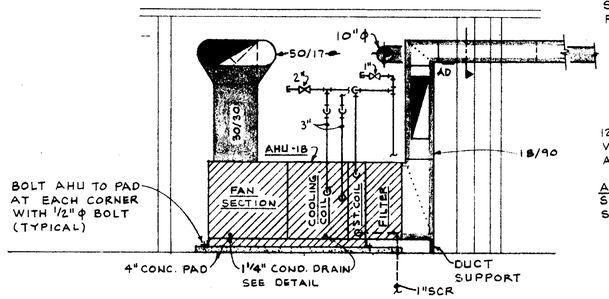


2 MECHANICAL ROOMS 2ND THRU 7TH FLRS.

1/4"=1'-0"

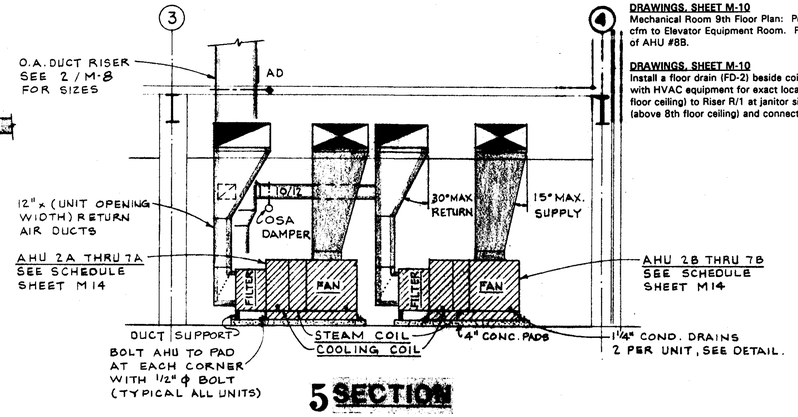


3 MECHANICAL ROOM 8TH FLOOR

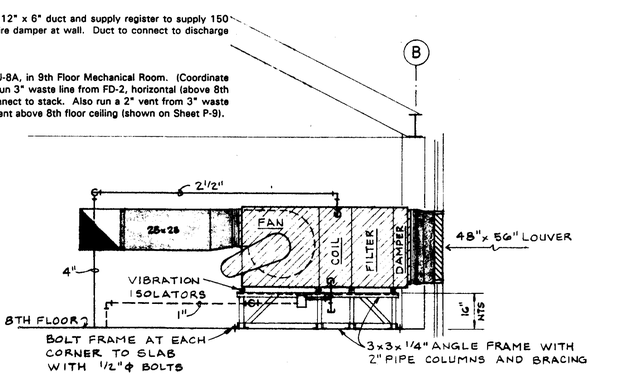


4 SECTION

1/4"=1'-0"



5 SECTION

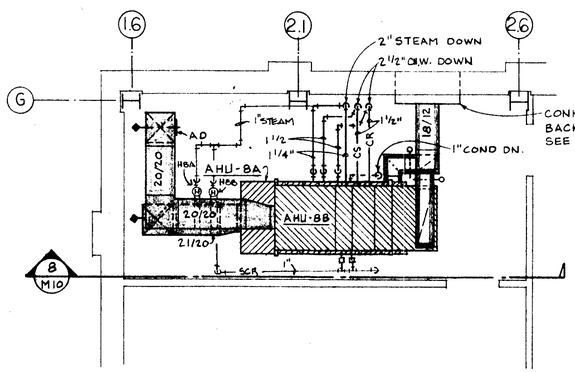


6 SECTION

1/4"=1'-0"

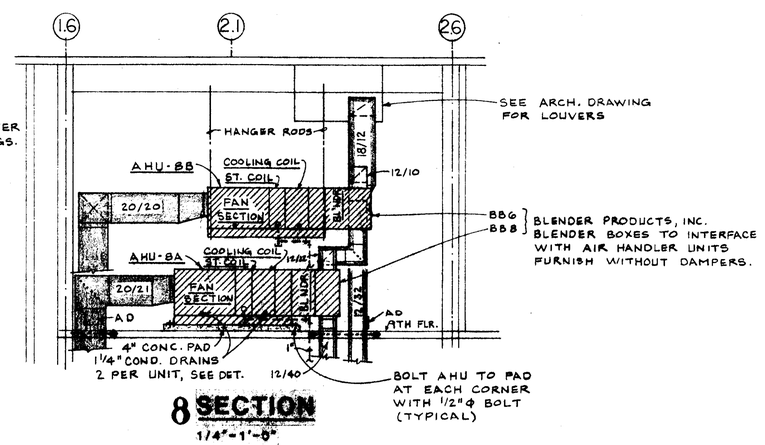
DRAWINGS, SHEET M-10
Mechanical Room 9th Floor Plan: Provide a 12" x 6" duct and supply register to supply 150 cfm to Elevator Equipment Room. Provide fire damper at wall. Duct to connect to discharge of AHU #8B.

DRAWINGS, SHEET M-10
Install a floor drain (FD-2) beside coil of AHU-8A, in 9th Floor Mechanical Room. (Coordinate with HVAC equipment for exact location.) Run 3" waste line from FD-2, horizontal (above 8th floor ceiling) to Riser R/1 at janitor sink. Connect to stack. Also run a 2" vent from 3" waste (above 8th floor ceiling) and connect to 4" vent above 8th floor ceiling (shown on Sheet P-9).



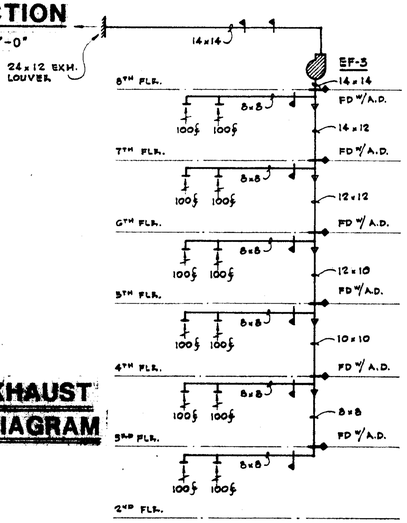
7 MECHANICAL ROOM 9TH FLOOR

1/4"=1'-0"



8 SECTION

1/4"=1'-0"



9 EF-3 EXHAUST RISER DIAGRAM

ADDITIONS AND ALTERATIONS TO
DEAN B. ELLIS LIBRARY
ARKANSAS STATE UNIVERSITY
STATE UNIVERSITY, ARKANSAS

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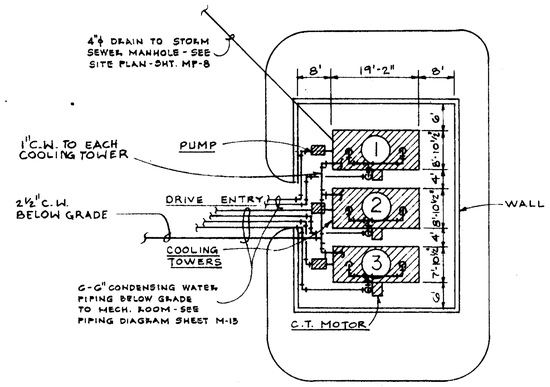
Brackett Krennerich and Associates P.A.
Architects, Engineers, Planners

ARKANSAS REGISTERED PROFESSIONAL ENGINEER H. M. GOODMAN No. 1657

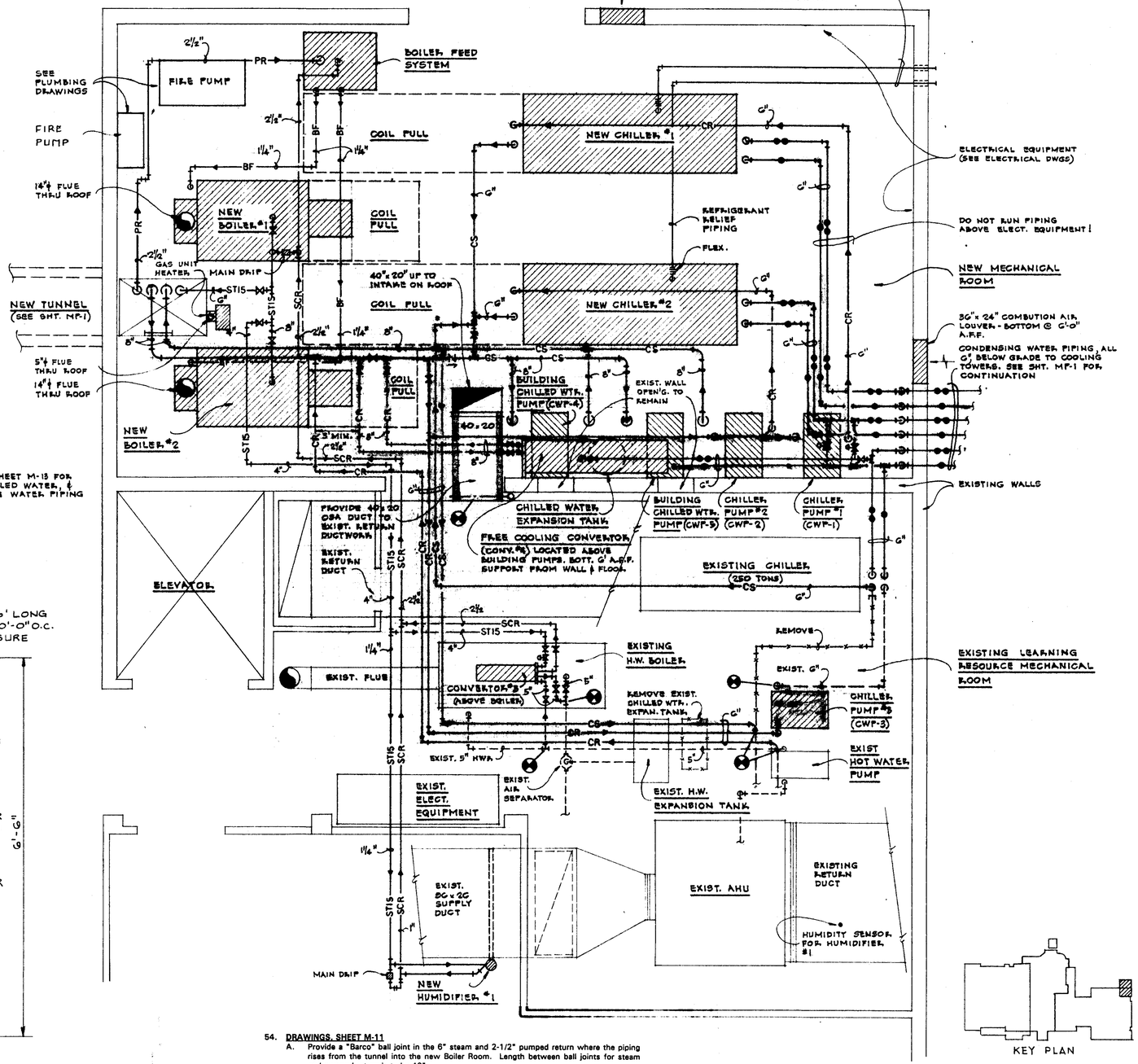
ORIGINAL ISSUE: 11/1990
M10
DATE: SEPT. 26, 1991

BRUNING 40-0020 321891



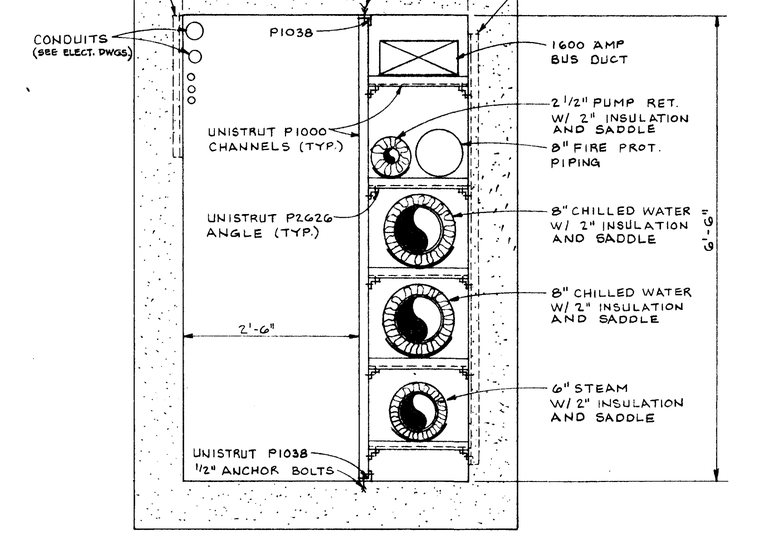
2 COOLING TOWER PLAN

1/16"=1'-0"



NOTE:

REFER TO SHEET M-13 FOR STEAM, CHILLED WATER, & CONDENSING WATER PIPING DIAGRAMS



3 SECTION AT TUNNEL

1"=1'-0"

54. DRAWINGS, SHEET M-11
   A. Provide a "Barco" ball joint in the 6" steam and 2-1/2" pumped return where the piping rises from the tunnel into the new Boiler Room. Length between ball joints for steam and pumped return is to be 48".
   B. Bottom of piping in Boiler Room to be a minimum of 9'-0" above floor.

1 MECHANICAL ROOM PLANS

1/4"=1'-0"

NORTH

KEY PLAN

IF THE EXECUTION OF THIS WORK REQUIRES THE DISTURBING OF ANY SUBSTANCE WHICH APPEARS TO BE ASBESTOS OR WHICH MAY CONTAIN ASBESTOS FIBERS, NOTIFY THE OWNER BEFORE CONTINUING WORK AT THE SUSPECT LOCATION. ANY MATERIALS TESTING POSITIVE WILL BE REMOVED BY THE OWNER BEFORE WORK CONTINUES.

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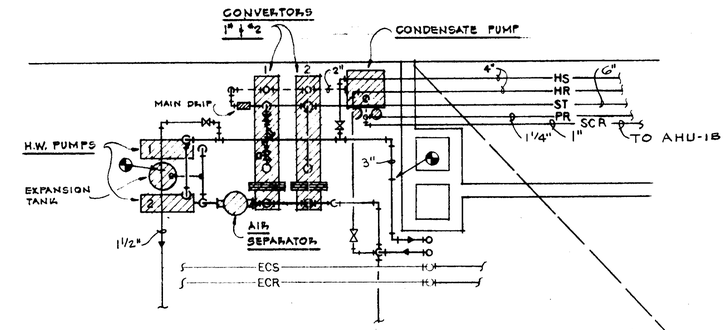
COMM. NO. 11980
M11
DATE: SEPT. 18, 1989

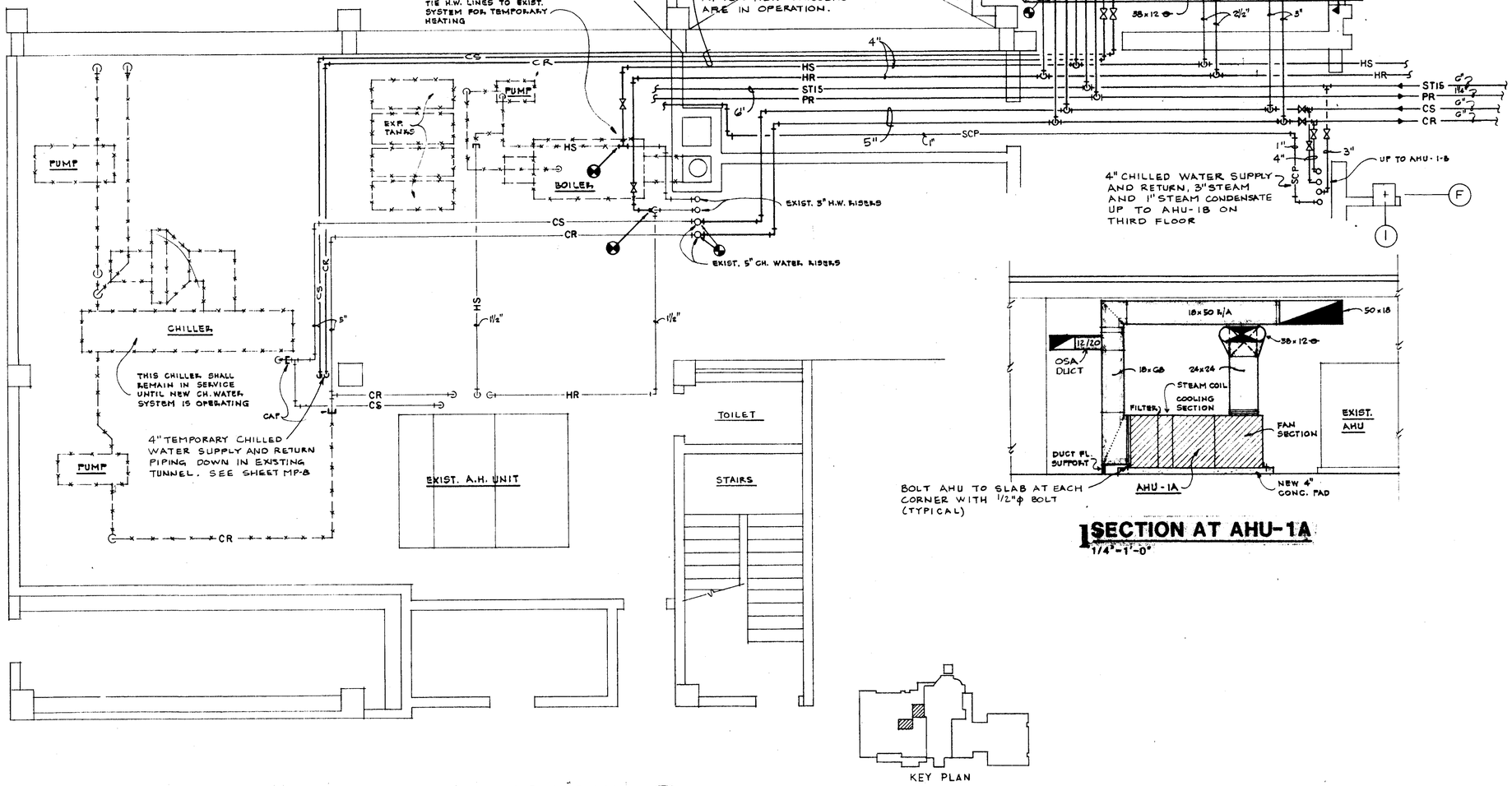
BRUNING, 40-8020 321991



PART PLAN MECH. ROOM

SHOWING PERMANENT H.W. HEATING SYSTEM

SEE PIPING PLAN ON SHEET M-17



EXISTING LIBRARY MECHANICAL ROOM PLAN

1/4"=1'-0"

KEY PLAN

1 SECTION AT AHU-1A

1/4"=1'-0"

IF THE EXECUTION OF THIS WORK REQUIRES THE DISTURBING OF ANY SUBSTANCE WHICH APPEARS TO BE ASBESTOS OR WHICH MAY CONTAIN ASBESTOS FIBERS, NOTIFY THE OWNER BEFORE CONTINUING WORK AT THE SUSPECT LOCATION. ANY MATERIALS TESTING POSITIVE WILL BE REMOVED BY THE OWNER BEFORE WORK CONTINUES.

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Brackett Krennerich and Associates PA

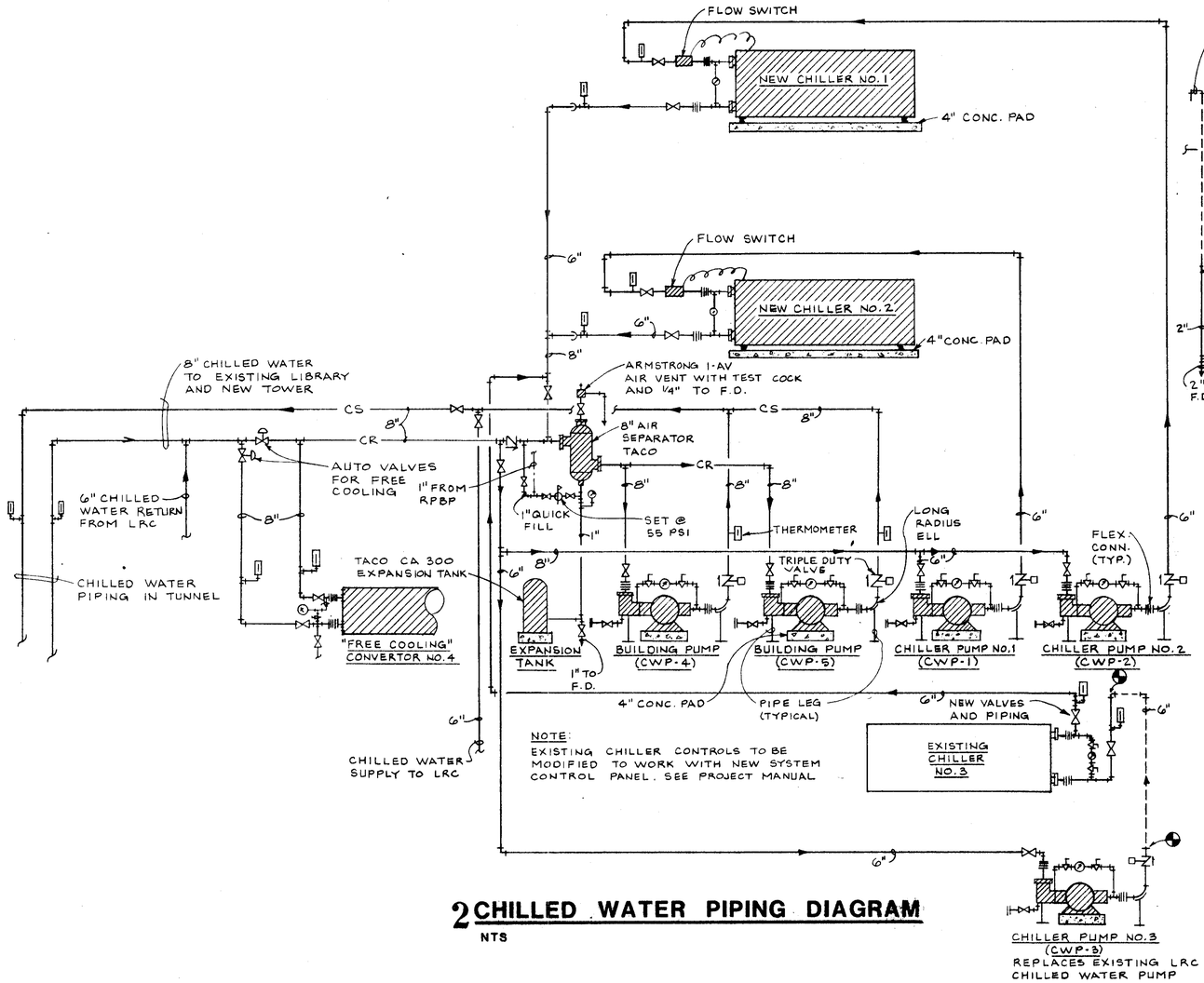
Architects Engineers Planners

COMM. NO. 11980

M12

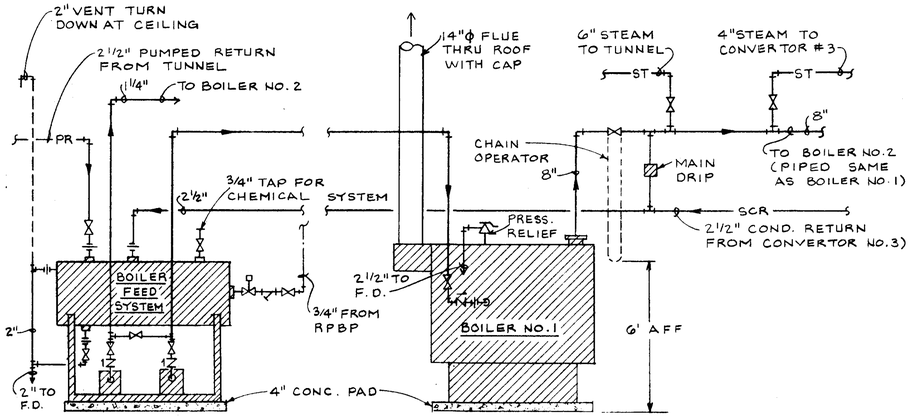
DATE: SEPT. 15, 1981

BRUNING 40-9020 121881

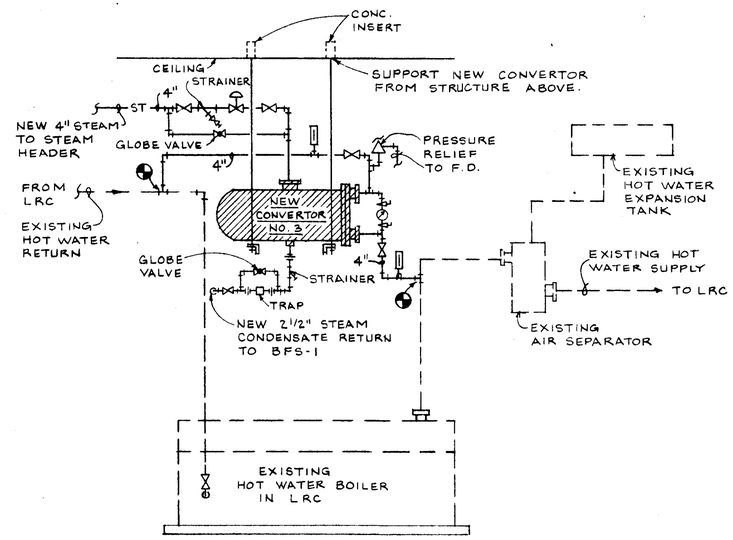


NOTE:
EXISTING CHILLER CONTROLS TO BE MODIFIED TO WORK WITH NEW SYSTEM CONTROL PANEL. SEE PROJECT MANUAL

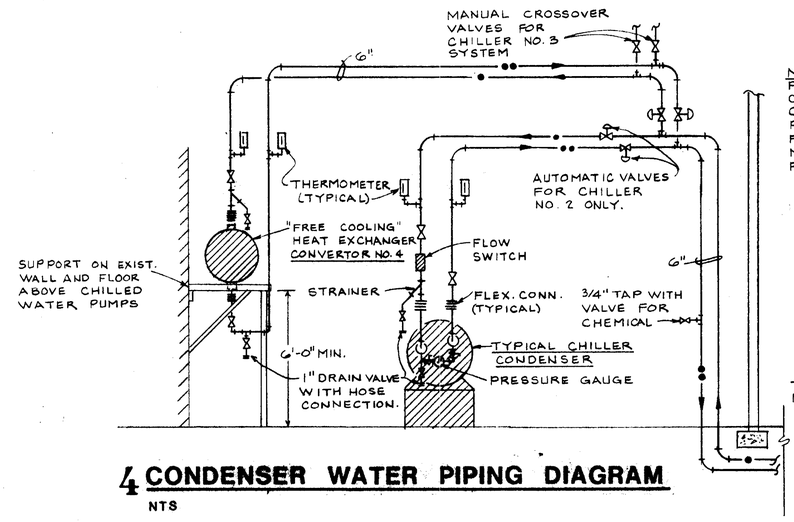
2 CHILLED WATER PIPING DIAGRAM
NTS



1 STEAM PIPING DIAGRAM
NTS



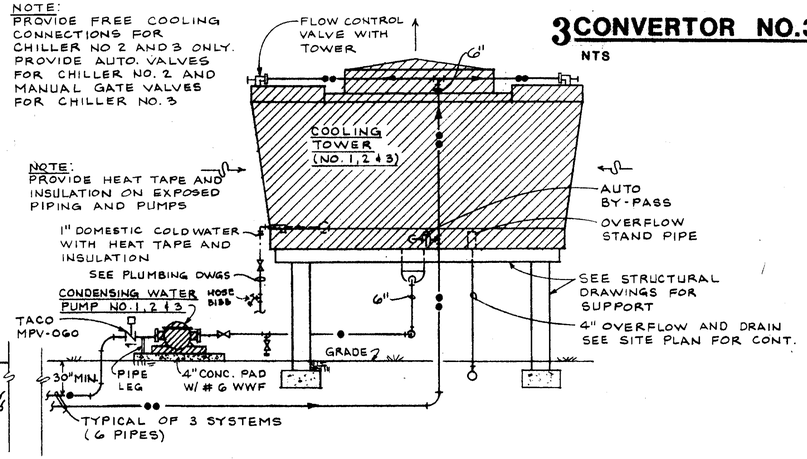
3 CONVERTOR NO. 3 PIPING DIAGRAM
NTS



4 CONDENSER WATER PIPING DIAGRAM
NTS

NOTE:
PROVIDE FREE COOLING CONNECTIONS FOR CHILLER NO 2 AND 3 ONLY. PROVIDE AUTO. VALVES FOR CHILLER NO. 2 AND MANUAL GATE VALVES FOR CHILLER NO. 3

NOTE:
PROVIDE HEAT TAPE AND INSULATION ON EXPOSED PIPING AND PUMPS



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Brackett Krennerich and Associates
Architects Engineers Planners
COMM. NO. 11980
M13
DATE: SEPT. 19, 1991

AIR HANDLING UNIT SCHEDULE

UNIT NUMBER		AHU-1A	AHU-1B	AHU-2A	AHU-2B	AHU-3A	AHU-3B	AHU-4A	AHU-4B	AHU-5A	AHU-5B	AHU-6A	AHU-6B	AHU-7A	AHU-7B	AHU-8A	AHU-8B	AHU-9
MANUFACTURER		TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	WING
MODEL NUMBER		#14HDT	#31HDT	#8HDT	#10HDT	#8HDT	#10HDT	#10HDT	#10HDT	#12HDT	#10HDT	#12HDT	#10HDT	#12HDT	#10HDT	#8HDT	#6HDT	SASI-120
SUMMER DESIGN CONDITIONS	OUTSIDE TEMPERATURE, DB/WB	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77	94/77
	INSIDE TEMPERATURE, DB/WB	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5
WINTER DESIGN CONDITIONS	OUTSIDE TEMPERATURE	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	INSIDE TEMPERATURE	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
FAN	TOTAL AIR THRU UNIT, CFM	7700	16475	3860	4230	3490	4360	4710	4970	5530	4970	5530	4970	5530	4970	3650	2930	7620
	MINIMUM OUTSIDE AIR, CFM	1540	3295	640	640	640	640	640	640	640	640	640	640	640	640	730	590	7620
	DIAMETER/TYPE/RPM	16"/FC/1350	22"/FC/1034	12"/FC/1510	13"/FC/1214	12"/FC/1414	13"/FC/1225	13"/FC/1262	13"/FC/1288	15"/FC/1102	13"/FC/1288	15"/FC/1102	13"/FC/1288	15"/FC/1102	13"/FC/1288	12"/FC/1459	10"/FC/1747	-
	STATIC PRESSURE, IN., EXT/TOTAL	3.60/4.77	3.75/5.09	2/3.04	2/2.64	2/2.70	2/2.73	2/2.78	2/2.85	2/3.64	2/2.85	2/2.64	2/2.85	2/2.64	2/2.85	1.9/2.86	1.9/2.94	-/1.0
	HORSEPOWER, BRAKE/MOTOR	9.98/10.0	23.74/25.0	3.26/5.0	2.92/5.0	2.57/5.0	3.10/5.0	3.56/5.0	3.94/5.0	3.92/5.0	3.94/5.0	3.92/5.0	3.94/5.0	3.92/5.0	3.94/5.0	2.87/5.0	2.46/3.0	-/3
	VOLTAGE/PHASE	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3
COOLING COIL	TOTAL AIR THRU COIL, CFM	7700	16475	3860	4230	3490	4360	4710	4970	5530	4970	5530	4970	5530	4970	3650	2930	
	ENTERING AIR TEMP., DB/WB	78.8/65.5	78.8/65.5	78.1/65.1	77.9/65	78.8/65.5	77.8/65	77.6/64.9	77.5/64.8	77.2/64.5	77.5/64.8	77.2/64.5	77.5/64.8	77.2/64.5	77.5/64.8	78.8/65.5	78.8/65.5	
	LEAVING AIR TEMP., DB/WB	52.5/52.3	52.1/51.9	53.2/53.0	53/52.6	53.3/53.0	53/52.9	53/52.6	53/52.7	53/52.6	53/52.7	53/52.6	53/52.7	53/52.6	53/52.7	53/52.9	53/52.7	
	CAPACITY, MBH, SENSIBLE/TOTAL	223.1/302.1	484.6/664.5	105.9/138.7	116.0/155.2	98.0/131.0	119.1/157.4	127.6/170.9	134.1/178.6	147.3/194.1	134.1/178.6	147.3/194.1	134.1/178.6	147.3/194.1	134.1/178.6	103.7/137.9	83.3/112.1	
	ENTERING WATER TEMPERATURE	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
	FLOW RATE, GPM	60.4	132.9	27.7	31.0	26.2	31.5	34.18	35.7	38.8	35.7	38.8	35.7	38.8	35.7	27.6	22.7	
	WATER FRICTION, FT.	10.10	11.7	3.39	8.61	5.4	4.1	10.18	10.9	9.36	10.9	9.36	10.9	9.36	10.9	3.36	6.02	
	FACE VELOCITY, FPM	542	568	512	439	463	452.1	488.4	515	450	515	450	515	450	515	484	500	
	AIR FRICTION, IN.	1.02"	0.87"	.92"	.56"	.61"	.62"	.67"	.73"	.57"	.73"	.57"	.73"	.57"	.73"	.85"	.87"	
	TUBE ROWS/FINS PER FOOT	8UW/109	8UU/108	8UW/112	6UW/111	6UW/117	6UW/113	6UW/118	6UW/120	6UW/109	6UW/120	6UW/109	6UW/120	6UW/109	6UW/120	8UW/112	8UW/93	
	SUCTION TEMPERATURE																	
HEATING COIL	TOTAL AIR THRU COIL, CFM	7700	16475	3860	4230	3490	4360	4710	4970	5530	4970	5530	4970	5530	4970	3650	2930	7620
	ENTERING AIR TEMPERATURE	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	10
	LEAVING AIR TEMPERATURE	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	83
	CAPACITY, MBH	250.5	536.0	125.6	137.6	113.5	141.9	153.2	161.7	179.9	161.7	179.9	161.7	179.9	161.7	118.8	95.3	600.8
	FACE VELOCITY, FPM	637	697	594	508	537	523	565	596	492	596	492	596	492	596	562	670	380
	ENTERING WATER TEMPERATURE																	-
	FLOW RATE, GPM																	-
	AIR FRICTION, IN.	.15"	.25"	.13"	.08"	.11"	.11"	.11"	.12"	.10"	.12"	.10"	.12"	.10"	.12"	.11"	.17"	.14"
	STEAM PRESSURE, PSI	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	FLOW RATE, POUNDS PER HOUR	260.6	557.6	130.7	143.2	118.2	147	159.5	168.3	187.2	168.3	187.2	168.3	187.2	168.3	123.6	99.2	626
	TUBE ROWS/FINS PER INCH	1NS/50	1NS/52	1NS/48	1NS/45	1NS/46	1NS/46	1NS/47	1NS/48	1NS/45	1NS/48	1NS/45	1NS/48	1NS/45	1NS/48	1NS/47	1NS/51	2/120
ACCESSORIES		①	①	②	②	②	②	②	②	②	②	②	②	②	②		③	

① INLET VANES
② HEATING COIL IN RH POSITION
③ BASE RAIL

55. DRAWINGS, SHEET M-14
Voltage for AHU-1A is to be 208V/3Ø.

FAN-COIL UNIT SCHEDULE

UNIT NUMBER		2H	2V	6H	8H	10H	12H	12V
MANUFACTURER		TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL NUMBER		C34DL02	B22DL02	C34DL06	C34DL08	C34DL10	C34DL12	A32DL12
FAN	TOTAL CFM	163	191	409	646	797	923	1091
	EXTERNAL STATIC PRESSURE, IN.	0.15	0	0.15	0.15	0.15	0.15	0
	RPM, HIGH SPEED	1100	1100	1075	775	775	775	775
	MOTOR WATTS	55	55	80	130	130	130	130
	VOLTAGE/PHASE	120/1	120/1	120/1	120/1	120/1	120/1	120/1
COOLING COIL	ENTERING AIR TEMP., DB/WB	78/65	78/65	78/65	78/65	78/65	78/65	78/65
	ENTERING WATER TEMPERATURE	45	45	45	45	45	45	45
	CAPACITY, MBH, SENSIBLE/TOTAL	4.08/5.11	4.57/5.94	9.81/13.11	15.27/19.37	18.7/23.84	21.99/28.09	24.78/31.65
	FLOW RATE, GPM	0.9	1.0	2.2	3.2	4.0	4.7	5.3
	WATER FRICTION, FT.	1.2	2.3	7.3	1.7	2.2	3.5	5.4
HEATING COIL	ENTERING AIR TEMPERATURE, DB	72	72	72	72	72	72	72
	ENTERING WATER TEMPERATURE	180	180	180	180	180	180	180
	CAPACITY, MBH	6.3	6.6	12.2	22.1	28.5	36.0	43.7
	FLOW RATE, GPM	0.5	0.5	0.5	1.0	1.0	1.0	1.5
	WATER FRICTION, FT.	0.2	0.5	0.5	0.7	0.8	0.7	1.3
CABINET	MODEL	Hor.Conc.	Vert.Cab.	Hor.Conc.	Hor.Conc.	Hor.Conc.	Hor.Conc.	Vert. Conc.
	OUTLET	Duct	Quadrifuser	Duct	Duct	Duct	Duct	Duct
	INLET	Duct	Toe Space	Duct	Duct	Duct	Duct	Toe Space
RUNOUT PIPE SIZES	SUPPLY AND RETURN, CH.W./H.W.	1/2" / 1/2"	1/2" / 1/2"	5/8" / 1/2"	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"	1" / 1/2"
	DRAIN, NORMAL/SAFETY	3/4" / 3/4"	3/4" / —	3/4" / 3/4"	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"	3/4" / —

WATER COOLED CHILLER

DESIGNATION	CH-1 & 2	CH-1 & 2
MANUFACTURER	TRANE	TRANE
MODEL NUMBER	CVHE032	CVHE032
CAPACITY (TONS)	277	277
EVAPORATOR FLOW/P.D.'	665/18.4	665/18.4
EVAPORATOR ENT. WTR. TEMP	55°	55°
EVAPORATOR LVG. WTR. TEMP	45°	45°
CONDENSOR FLOW/P.D. (FT)	825	825
CONDENSOR ENT. WTR. TEMP	85	85
CONDENSOR LVG. WTR. TEMP	94.47	94.59
KW/VOLT/ ∅ @ 100%	163/480/3	180/480/3
REFRIGERANT	R-11	R-123
APLV *	0.590	0.59

* BASED ON ARI 550-88

COOLING TOWER SCHEDULE

DESIGNATION	CT-1 & CT-2	CT-3
MANUFACTURER MODEL NO.	MARLEY NC-401	MARLEY NC-311
GPM	825	760
ENTERING WATER TEMPERATURE	95	95
LEAVING WATER TEMPERATURE	85	85
DESIGN WET-BULB TEMPERATURE	80	80
MOTOR HP/RPM/VOLT/PHASE *	15/1800/480/3∅	20/1800/480/3∅
BASIN HEAT KW/VOLT/PHASE	15/480/3∅	15/480/3∅

* MOTOR TO BE 2-SPEED (1800/300) SINGLE WINDING

HUMIDIFIER SCHEDULE

NUMBER	1	2A,B-7A,B	8A	8B
AREA SERVED	Exist. Museum	Tower	8th Floor Mtg. Room	8th Floor West
ARMSTRONG MODEL #	EM90	EM90	EM90	EM90
DUCT SIZE	96" x 26"	Refer To Plans	21" x 20"	20" x 20"
CFM TOTAL/OSA	22400/2464	*4970/640	3650/730	2930/590
POUNDS/HOUR	87.4	22.4	25.9	20.9
STEAM RUNOUT SIZE	1"	1"	1"	1"

* TOTAL CFM VARIES. SEE AHU SCHEDULE.

REHEAT COIL SCHEDULE

NO.	CFM	SIZE	LAT	TYPE	ROWS	FPF/TYPE	MBH	GPM	APD	WPD
RHC-2B	350	12 x 9	86.8	T	1	110/PF	12.1	1.2	0.08"	0.24'
RHC-3B	1260	24 x 15	90.3	T	1	110/PF	48.3	4.8	0.09"	5.44'
RHC-4A	1090	20 x 15	89.2	T	1	110/PF	40.6	4.0	0.09"	3.57'
RHC-4B	1960	32 x 18	85	TT	1	91/PF	63.8	6.4	0.07"	3.62'
RHC-5A RHC-6A RHC-7A	2110	36 x 18	85	TT	1	88/PF	68.6	6.9	0.07"	4.34'
RHC-5B RHC-6B RHC-7B	1960	32 x 18	85	TT	1	91/PF	63.8	6.4	0.07"	3.62'

STEAM BOILER SCHEDULE

DESIGNATION	BOILER #1	BOILER #2
MANUFACTURER	KEWANEE	KEWANEE
MODEL NUMBER	M-335K	M-335K
INPUT (MBH)	4188	4188
OUTPUT (MBH)	3350	3350
BOILER HP	100	100
WORKING PRESSURE	15 PSI	15 PSI
FAN HP/VOLT	3/480/3	3/480/3
ACCESSORIES	①	①

① 60 PSI RELIEF VALVE

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Brackett Krennerich and Associates

Architects, Engineers, Planners

COMM. NO. 11980
M14
DATE: SEPT. 15, 1991

FAN POWERED TERMINAL SCHEDULE

DESIGNATION	MANUFACTURER	PRIMARY AIR CFM RANGE	PRIMARY AIR INLET	PRIMARY CFM / FAN CFM	FAN H.P.	FAN VOLTAGE	COIL ROWS / HW GPM	HTG MBH
(1)	AIR DEVICES FPV #260	0-600	6	500 / 500	1/6	120	2 / 1	22.5
(2)	AIR DEVICES FPV #260	0-600	6	400 / 400	1/6	120	2 / 1	20.5
(3)	AIR DEVICES SDV #7	150-800	7	600 / N/A	N/A	N/A	N/A	N/A
(4)	AIR DEVICES SDV #7	150-800	7	600 / N/A	N/A	N/A	N/A	N/A
(5)	AIR DEVICES SDV #6	100-600	6	320 / N/A	N/A	N/A	N/A	N/A
(6)	AIR DEVICES SDV #8	200-1050	8	700 / N/A	N/A	N/A	N/A	N/A
(7)	AIR DEVICES FPV #410	250-1650	10	1000 / 1000	1/3	120	2 / 1	32
(8)	AIR DEVICES FPV #260	100-600	6	450 / 500	1/6	120	2 / 1	20.5
(9)	AIR DEVICES SDV #6	100-600	6	150 / N/A	N/A	N/A	N/A	N/A
(10)	AIR DEVICES FPV #410	250-1650	10	1440 / 1500	1/3	120	2 / 1	36
(11)	AIR DEVICES FPV #380	175-1050	8	720 / 750	1/4	120	2 / 1	28
(12)	AIR DEVICES FPV #380	175-1050	8	800 / 800	1/4	120	1 / 1	18
(13)	AIR DEVICES FPV #370	140-800	7	660 / 700	1/4	120	2 / 1	28
(14)	AIR DEVICES FPV #260	100-600	6	270 / 300	1/6	120	1 / 1	11.5
(15)	AIR DEVICES FPV #410	250-1650	10	1000 / 1000	1/3	120	1 / 1	21
(16)	AIR DEVICES FPV #380	175-1050	8	750 / 750	1/4	120	2 / 1	28
(17)	AIR DEVICES FPV #250	70-400	5	95 / 100	1/6	120	1 / 1	9
(18)	AIR DEVICES FPV #260	100-600	6	210 / 250	1/6	120	1 / 1	10.5
(19)	AIR DEVICES FPV #260	100-600	6	415 / 500	1/6	120	2 / 1	22.5
(20)	AIR DEVICES FPV #260	100-600	6	410 / 500	1/6	120	2 / 1	22.5
(21)	AIR DEVICES FPV #260	100-600	6	435 / 500	1/6	120	2 / 1	22.5
(22)	AIR DEVICES FPV #370	140-800	7	675 / 750	1/4	120	2 / 1	28
(23)	AIR DEVICES FPV #260	100-600	6	235 / 250	1/6	120	1 / 1	10.5
(24)	AIR DEVICES FPV #260	100-600	6	470 / 500	1/6	120	2 / 1	20.5
(25)	AIR DEVICES FPV #370	140-800	7	670 / 750	1/4	120	2 / 1	28
(26)	AIR DEVICES FPV #370	140-800	7	650 / 750	1/4	120	2 / 1	28
(27)	AIR DEVICES FPV #260	100-600	6	350 / 400	1/6	120	2 / 1	20.5
(28)	AIR DEVICES FPV #260	100-600	6	350 / 400	1/6	120	2 / 1	20.5
(29)	AIR DEVICES FPV #260	100-600	6	235 / 300	1/6	120	1 / 1	11.5
(30)	AIR DEVICES FPV #410	250-1650	10	1000 / 1000	1/3	120	2 / 1	32
(31)	AIR DEVICES FPV #410	250-1650	10	1000 / 1000	1/3	120	2 / 1	32
(32)	AIR DEVICES FPV #260	100-600	6	500 / 500	1/6	120	2 / 1	20.5
(33)	AIR DEVICES FPV #512	400-2350	12	2000 / 1900	1/2	120	2 / 1	36

FILTER SCHEDULE

FILTER NO.	SYSTEM	MANUFACTURER AND MODEL	QUANTITY AND SIZE	HOUSING	EFFICIENCY
F-1A	AHU-1A	FARR-RIGA-FLO XL & 30/30	3 - 24 x 24 x 12, 3 - 24 x 12 x 12 3 - 24 x 24 x 4, 3 - 24 x 12 x 4	3 x 1 1/2 3P GLIDEPACK	45% 30%
F-1B	AHU-1B	FARR-RIGA-FLO XL & 30/30	8 - 24 x 24 x 12 8 - 24 x 24 x 4	4 x 2 3P GLIDEPACK	45% 30%
F-2A	AHU-2A	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12 2 - 24 x 24 x 4	2 x 1 3P GLIDEPACK	45% 30%
F-2B	AHU-2B	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12, 1 - 24 x 12 x 12 2 - 24 x 24 x 4, 1 - 24 x 12 x 4	2 1/2 x 1 3P GLIDEPACK	45% 30%
F-3A	AHU-3A	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12 2 - 24 x 24 x 4	2 x 1 3P GLIDEPACK	45% 30%
F-3B	AHU-3B	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12, 1 - 24 x 12 x 12 2 - 24 x 24 x 4, 1 - 24 x 12 x 4	2 1/2 x 1 3P GLIDEPACK	45% 30%
F-4A	AHU-4A	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12, 1 - 24 x 12 x 12 2 - 24 x 24 x 4, 1 - 24 x 12 x 4	2 1/2 x 1 3P GLIDEPACK	45% 30%
F-4B	AHU-4B	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12, 1 - 24 x 12 x 12 2 - 24 x 24 x 4, 1 - 24 x 12 x 4	2 1/2 x 1 3P GLIDEPACK	45% 30%
F-5A	AHU-5A	FARR-RIGA-FLO XL & 30/30	3 - 24 x 24 x 12, 3 - 24 x 12 x 12 3 - 24 x 24 x 4, 3 - 24 x 12 x 4	3 x 1 1/2 3P GLIDEPACK	45% 30%
F-5B	AHU-5B	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12, 1 - 24 x 12 x 12 2 - 24 x 24 x 4, 1 - 24 x 12 x 4	2 1/2 x 1 3P GLIDEPACK	45% 30%
F-6A	AHU-6A	FARR-RIGA-FLO XL & 30/30	3 - 24 x 24 x 12, 3 - 24 x 12 x 12 3 - 24 x 24 x 4, 3 - 24 x 12 x 4	3 x 1 1/2 3P GLIDEPACK	45% 30%
F-6B	AHU-6B	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12, 1 - 24 x 12 x 12 2 - 24 x 24 x 4, 1 - 24 x 12 x 4	2 1/2 x 1 3P GLIDEPACK	45% 30%
F-7A	AHU-7A	FARR-RIGA-FLO XL & 30/30	3 - 24 x 24 x 12, 3 - 24 x 12 x 12 3 - 24 x 24 x 4, 1 - 24 x 12 x 4	3 x 1 1/2 3P GLIDEPACK	45% 30%
F-7B	AHU-7B	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12, 1 - 24 x 12 x 12 2 - 24 x 24 x 4, 1 - 24 x 12 x 4	2 1/2 x 1 3P GLIDEPACK	45% 30%
F-8A	AHU-8A	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12 2 - 24 x 24 x 4	2 x 1 3P GLIDEPACK	45% 30%
F-8B	AHU-8B	FARR-RIGA-FLO XL & 30/30	2 - 24 x 24 x 12 2 - 24 x 24 x 4	2 x 1 3P GLIDEPACK	45% 30%
F-9	AHU-9	FARR-CLASS 1 30/30	10 - 20 x 25 x 2	* WING V-BANK FILTER SECTION	30%

NOTES: RIGA-FLO 12" DEEP FILTERS ARE 45% EFFICIENCY.

30/30 4" DEEP FILTERS ARE 30% EFFICIENCY.

* V-BANK FILTER SECTION FURNISHED WITH WING AHU-9.

56. DRAWINGS, SHEET M-15
Voltage for HWP 1 and 2 is to be 208V/30.

PUMP SCHEDULE

DESIGNATION	CWP-1 & 2	CWP-3	CWP-4 & 5	COND 1 & 2	COND 3	HWP-1 & 2	
MANUFACTURER	PACO	PACO	PACO	PACO	PACO	PACO	
MODEL NUMBER	5012KP	5012KP	6012KP	4012-7KP	4012-7KP	3095L	
GPM	665	610	1550	825	760	420	
HEAD (FT)	40	40	100	65	55	60	
HORSEPOWER *	10	10	60	25	20	10	
VOLTAGE/PHASE	480/3	480/3	480/3	480/3	480/3	480/3	
RPM	1150	1150	1750	1750	1750	1750	
MOUNTING	BASE	BASE	BASE	BASE	BASE	BASE	
EFFICIENCY	81%	80%	86%	75%	70%	81%	

* NON-OVERLOADING AT ANY POINT ON CURVE.

FAN SCHEDULE

FAN NUMBER	EF-1	EF-2	EF-3	EF-4	EF-5
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	BSQ-140-3	SFB-18	SFB-10	LB14-5	LB10-4
CFM	1660	3800	1200	1687	705
STATIC PRESSURE, IN.	0.5	0.75	0.5	0.75	0.25
FAN RPM	1140	590	836	1235	1005
MOTOR HP	0.33	1.0	1/3	1/2	1/4
VOLTAGE	120	480	120	120	120
PHASE	1	3	1	1	1
MOUNTING	INLINE	FLOOR	FLOOR	ROOF	ROOF
DRIVE	BELT	BELT	BELT	BELT	BELT
ACCESSORIES	①②	①	①②	①②⑦⑧	①②⑦⑧
INTERLOCK WITH					

① BACKDRAFT DAMPER
② MANUAL STARTER
③ MAGNETIC STARTER
④ THERMOSTAT
⑤ FIRESTAT
⑥ FAN SPEED CONTROL
⑦ INTERNAL DISCONNECT
⑧ ROOF CURB
⑨ INLET VANES

STEAM/HOT WATER CONVERTOR

DESIGNATION	CONVERTOR #1	CONVERTOR #2	CONVERTOR #3
MANUFACTURER	TACO	TACO	TACO
MODEL #	G16212-S	G16212-S	G14408-S
EWT	180	180	180
LWT	200	200	200
STEAM PRESS	5	5	5
GPM	420	420	183
WPD	2.2	2.2	6.3
# PASSES / LENGTH	2/6	2/6	4/4

WATER/WATER HEAT EXCHANGER

DESIGNATION	CONVERTOR #4		
MANUFACTURER	TACO		
MODEL #	G30220-12L		
(TUBE) CHILL WATER GPM	1546		
CHILL/WATER, EWT/LWT	60/54.7		
CHILL WATER P.D.'	2.6'		
(SHELL) COND. WATER GPM	825		
COND. WATER EWT/LWT	40/50		
COND. WATER P.D.'	8.5'		
# PASSES	2		
LENGTH	10'		

STEAM CONDENSATE PUMP

DESIGNATION	SCP-1	SCP-2	SCP-3
MANUFACTURER/TYPE	PACO/LA	PACO/LA	PACO/LA
RECEIVER/GALLON	30	30	15
CAPACITY FT² EDR	20,000	15,000	2,000
GPM	30	22 1/2	3
DISCHARGE PRESSURE	20	20	20
PUMP MODEL #	1070-5	1070-5	1070-5
H.P. (QTY)	3/4 (2)	3/4 (2)	1/2 (2)
VOLTAGE/PHASE	208/3	480/3	208/3

BOILER FEED SYSTEM

DESIGNATION	BFS-1	
MANUFACTURER	INDUSTRIAL STEAM	
MODEL #	U220A40-2-3/4	
RECEIVER SIZE	220 GALLONS	
GPM/DISCHARGE PRESSURE	14/25	
MOTOR HP/RPM	3/4 / 3500	
VOLTAGE/PHASE	480/3	

GAS FIRED UNIT HEATER SCHEDULE

DESIGNATION	UH-1			
MANUFACTURER	TRANE			
MODEL NUMBER	GPND007			
INPUT (MBH)	75			
OUTPUT (MBH)	60.8			
CFM	1100			
FAN H.P.	1/30			
VOLTAGE	120			
VENT SIZE	5"			

PROVIDE SPARK IGNITION, HORIZONTAL LOUVERS AND THERMOSTAT WITH FAN SUB-BASE.

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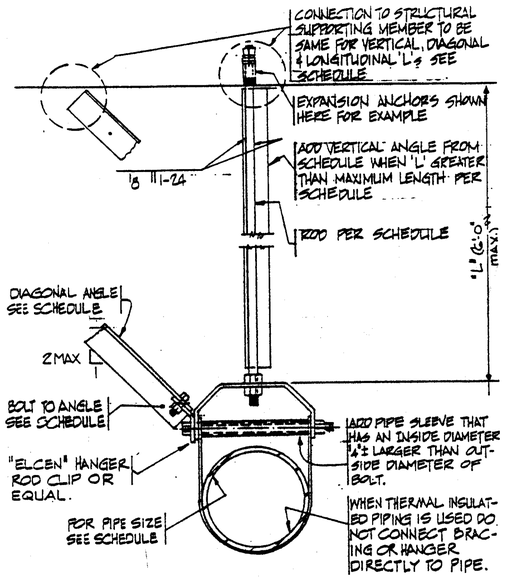
Brackett Krennerich and Associates P.A.
Architects Engineers Planners

COMM. NO. 11990
M15
DATE: SEPT. 15, 1991

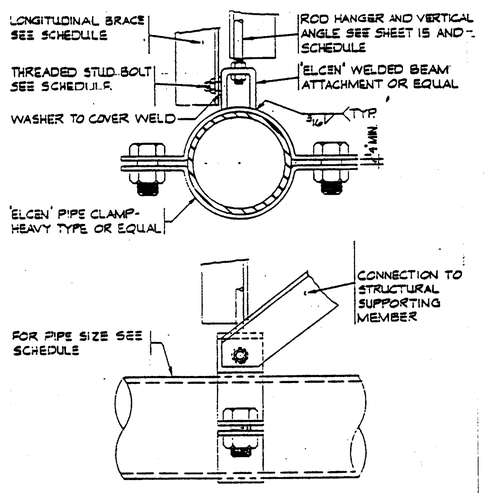
MECHANICAL LEGEND

SYMBOL	ITEM
⊠	SUPPLY AIR DIFFUSER
⊡	RETURN AIR GRILLE
⊠	EXHAUST AIR GRILLE
	FIRE DAMPER-HORIZONTAL DUCT
	MOTORIZED DAMPER
TM	THERMOSTAT
H	HUMIDISTAT
HS	HOT WATER SUPPLY
HR	HOT WATER RETURN
CS	CHILLED WATER SUPPLY
CR	CHILLED WATER RETURN
ST 15	STEAM SUPPLY PRESSURE, PSIG
SCR	STEAM COND. RETURN
	GATE VALVE
	PLUG COCK
	GLOBE VALVE
	CHECK VALVE
	CONNECT NEW WORK TO EXIST.
S	WALL MOUNTED SWITCH
	FIRE DAMPER - VERTICAL DUCT
PR	PUMPED CONDENSATE RETURN
	CONDENSING WATER SUPPLY
	CONDENSING WATER RETURN
	AUTOMATIC CONTROL VALVE
	TRIPLE DUTY VALVE

SYMBOL	ITEM
	STRAINER
	RELIEF VALVE
	THERMOMETER
	PRESSURE GAUGE AND COCK
	TEMP. AND PRESSURE TEST PLUG
	TURNING VANES
	MANUAL DAMPER
C D	CEILING DIFFUSER
S R	SUPPLY REGISTER
R G	RETURN GRILLE
R R	RETURN REGISTER
E G	EXHAUST GRILLE
E R	EXHAUST REGISTER
D G	DOOR GRILLE
EF-1	EXHAUST FAN NO. 1
℄	CUBIC FEET PER MINUTE
A D	ACCESS DOOR
	UNION
	NEW EQUIPMENT
	PIPING TO BE REMOVED
	EQUIPMENT TO BE REMOVED
F D	FLOOR DRAIN



TYPICAL TRANSVERSE PIPE BRACING



TYPICAL LONGITUDINAL PIPE BRACING

SCHEDULE FOR BRACING PIPES

PIPE SIZE	"ELCEN" (OR EQUAL) HANGER TYPE	BOLTS TO 'L' (2)	VERTICAL ANGLE (3)	DIAGONAL ANGLE	LONGITUDINAL DIAGONAL ANGLE (4)	TOP CONNECTION OF DIAGONAL & LONGITUDINAL 'L's (1)	ROD SIZE	MAX. LENGTH FOR RODS
2 1/2	CLEVIS TYPE	3/8" ϕ	2"x2"x16GA.	2"x2"x16GA	2 1/2"x2 1/2"x16GA	TYPE I	1/2" ϕ	9.5'
3	DO DO	3/8" ϕ	2"x2"x16GA.	2"x2"x16GA.	2 1/2"x2 1/2"x16GA.	TYPE I	1/2" ϕ	9.5'
3 1/2	DO DO	3/8" ϕ	2"x2"x16GA.	2"x2"x16GA.	2 1/2"x2 1/2"x16GA	TYPE II	1/2" ϕ	9.5'
4	DO DO	3/8" ϕ	2"x2"x16GA.	2"x2"x16GA.	2 1/2"x2 1/2"x16GA.	TYPE II	5/8"	31'
5	DO DO	1/2" ϕ	2"x2"x16GA	2"x2"x16GA.	2 1/2"x2 1/2"x16GA	TYPE II	5/8"	31'
6	DO DO	1/2" ϕ	2 1/2"x2 1/2"x16GA.	2 1/2"x2 1/2"x16GA	2 1/2"x2 1/2"x16GA	TYPE V	3/4"	39'
8	DO DO	5/8" ϕ	2 1/2"x2 1/2"x12GA.	2 1/2"x2 1/2"x12GA	2 1/2"x2 1/2"x12GA	TYPE VI	7/8" ϕ	43'
10	DO DO	3/4" ϕ	2 1/2"x2 1/2"x12GA.	3"x3"x12GA	3"x3"x12GA.	TYPE III	7/8" ϕ	43'

1. "L" DENOTES ANGLE.
2. PLACE STANDARD CUT WASHERS BETWEEN SHEET METAL ANGLES AND NUT.
3. "VERTICAL ANGLE" IN THE SCHEDULE IS REQUIRED IN ADDITION TO HANGER ROD ONLY WHEN "MAXIMUM LENGTH FOR RODS" IS EXCEEDED.

ALLOWABLE LOADS

DIA.	HANGER RODS	POUNDS
1/4"		240
3/8"		610
1/2"		1130
5/8"		1810
3/4"		2710
7/8"		3770

SIESMIC PIPE SUPPORT DETAIL

GENERAL NOTES FOR BRACING OF PIPES

BRACING DETAILS, SUPPORT DETAILS, SCHEDULES AND NOTES APPLY TO ALL TYPES OF PIPE AND ALL TYPES OF JOINTS.

1. BRACE ALL PIPES 2-1/2" DIAMETER AND LARGER:

EXCEPTIONS:

A. BRACE ALL PIPING 1-1/4" AND LARGER LOCATED IN BOILER ROOMS, MECHANICAL EQUIPMENT ROOMS AND REFRIGERATION MACHINERY ROOMS. BRACING REQUIREMENTS FOR PIPES LESS THAN 2-1/2" IN DIAMETER SHALL BE THE SAME AS FOR 2-1/2" PIPES IN ALL OTHER LOCATIONS.

B. BRACE ALL GAS PIPING AND COMPRESSED AIR PIPING 1" AND LARGER.

C. SEISMIC BRACES MAY BE OMITTED: (1) WHEN THE TOP OF THE PIPE IS SUSPENDED 12" OR LESS FROM THE SUPPORTING STRUCTURE MEMBER AND THE PIPE IS SUSPENDED BY AN INDIVIDUAL HANGER. (2) ON ALL PIPING 3/4" AND SMALLER.

2. DETAILS SHOWN PROVIDE A LATERAL BRACING SYSTEM. A TYPICAL VERTICAL SUPPORT SYSTEM CONFORMING TO STANDARD BUILDING CODE REQUIREMENTS MUST ALSO BE USED.

A. VERTICAL PIPING

(1) ATTACHMENT - VERTICAL PIPING SHALL BE SECURED AT SUFFICIENTLY CLOSE INTERVALS TO KEEP THE PIPE IN ALIGNMENT AND CARRY THE WEIGHT OF THE PIPE AND CONTENTS. STACKS SHALL BE SUPPORTED AT THEIR BASES AND IF OVER 2 STORIES IN HEIGHT AT EACH FLOOR BY APPROVED METAL FLOOR CLAMPS.

(2) SCREWED PIPE - SCREWED PIPE (I.P.S.) SHALL BE SUPPORTED AT NOT LESS THAN EVERY OTHER STORY HEIGHT.

(3) COPPER TUBING - COPPER TUBING SHALL BE SUPPORTED AT EACH STORY FOR PIPING 1-1/2" AND LARGER DIAMETER, AND AT NOT MORE THAN 6 FOOT INTERVALS FOR PIPING 1-1/2" AND SMALLER IN DIAMETER.

(4) PIPES OF OTHER APPROVED MATERIAL SHALL BE SUPPORTED IN ACCORDANCE WITH THEIR APPROVED INSTALLATION STANDARDS.

B. HORIZONTAL PIPING

(1) SUPPORTS - HORIZONTAL PIPING SHALL BE SUPPORTED AT SUFFICIENTLY CLOSE INTERVALS TO KEEP IT IN ALIGNMENT AND PREVENT SAGGING.

(2) SCREWED PIPE - SCREWED PIPE (I.P.S.) OR FLANGED PIPE SHALL BE SUPPORTED AT APPROXIMATELY 10 FOOT INTERVALS.

(3) COPPER TUBING - COPPER TUBING SHALL BE SUPPORTED AT APPROXIMATELY 6 FOOT INTERVALS FOR TUBING 1-1/2" AND SMALLER IN DIAMETER AND 10 FOOT INTERVALS FOR TUBING 2" AND LARGER IN DIAMETER.

(4) PIPES OF OTHER APPROVED MATERIALS SHALL BE SUPPORTED IN ACCORDANCE WITH THEIR APPROVED INSTALLATION STANDARDS.

3. TRANSVERSE BRACINGS AT 40'-0" O.C. MAXIMUM UNLESS OTHERWISE NOTED.

4. LONGITUDINAL BRACINGS AT 80'-0" O.C. MAXIMUM UNLESS OTHERWISE NOTED. WHEN THERMAL EXPANSION OR CONTRACTION IS INVOLVED, PROVIDE LONGITUDINAL BRACINGS AT ANCHOR POINTS. THE LONGITUDINAL BRACES AND THE CONNECTIONS MUST BE CAPABLE OF RESISTING THE FORCE INDUCED BY EXPANSION AND CONTRACTION.

5. TRANSVERSE BRACING FOR ONE PIPE SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR THE PIPE SECTION CONNECTED PERPENDICULAR TO IT, IF THE BRACING IS INSTALLED WITHIN 24" OF THE ELBOW OR TEE OF SIMILAR SIZE.

6. FOR THREADED PIPING THE FLEXIBILITY MAY BE PROVIDED BY THE INSTALLATION OF SWING JOINTS. IN WELDED OR SOLDER JOINT PIPING, THE FLEXIBILITY SHALL BE PROVIDED BY EXPANSION LOOPS OR MANUFACTURED FLEXIBLE CONNECTORS. FOR PIPING WITH MANUFACTURED BALL JOINTS SELECT LENGTH OF PIPING OFFSET USING "SEISMIC DRIFT" IN PLACE OF "EXPANSION PER JOINT MANUFACTURERS" SELECTION TABLE. SEISMIC DRIFT = 0.015 FT. PER FOOT OF HEIGHT.

7. DO NOT USE BRANCH LINES TO BRACE MAIN LINES.

8. TRAPEZE HANGERS MAY BE USED. PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING SEISMIC OR EXPANSION JOINTS, OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.

9. A RIGID PIPING SYSTEM SHALL NOT BE BRACED TO DISSIMILAR PARTS OF A BUILDING OR TWO DISSIMILAR BUILDING SYSTEMS THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE. EXAMPLES: WALL AND A ROOF; SOLID CONCRETE WALL AND A METAL DECK WITH LIGHTWEIGHT CONCRETE FILL.

10. PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALLS OR FLOORS TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENTS.

11. AT VERTICAL PIPE RISERS, WHEREVER POSSIBLE, SUPPORT THE WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER. PROVIDE LATERAL GUIDES AT THE TOP AND BOTTOM OF THE RISER, AND AT INTERMEDIATE POINTS NOT TO EXCEED 30'-0" ON CENTER.

12. CAST IRON PIPE OF ALL TYPES, GLASS PIPE AND ANY OTHER PIPE JOINED WITH A SHIELD AND CLAMP ASSEMBLY WHERE THE TOP OF THE PIPE IS 12" OR MORE FROM SUPPORTING STRUCTURE SHALL BE BRACED ON EACH SIDE OF A CHANGE IN DIRECTION OF 90° OR MORE. RISER JOINTS SHALL BE BRACED OR STABILIZED BETWEEN FLOORS.

13. FOR GAS PIPING, THE BRACING DETAILS, SCHEDULES AND NOTES MAY BE USED EXCEPT THAT TRANSVERSE BRACING SHALL BE AT 20-0" O.C. MAXIMUM AND LONGITUDINAL BRACING AT 40'-0" O.C. MAXIMUM. ALSO 1", 1-1/4", 1-1/2", AND 2" DIAMETER PIPES SHALL BE BRACED THE SAME AS 2-1/2" DIAMETER PIPE IN THE SCHEDULE. (NO BRACING IS REQUIRED FOR PIPES 3/4" DIAMETER AND SMALLER).

EQUIPMENT SUPPORT NOTES

ALL FLOOR MOUNTED EQUIPMENT IS TO BE SECURELY FASTENED TO THE FLOOR SLAB AT EACH CORNER OF THE EQUIPMENT. PROVIDE 1/2" DIAMETER BOLT AT EACH CORNER.

ALL EQUIPMENT LOCATED ABOVE THE CEILING, SUCH AS FANCOIL UNITS AND TERMINAL BOXES, IS TO BE SUSPENDED BY THREADED ROD TO THE FLOOR SLAB ABOVE. A 3" X 3" X 1/4" ANGLE BRACE IS TO BE BOLTED TO EACH PIECE OF EQUIPMENT. EACH END OF THE ANGLE BRACE IS TO BE WELDED TO THE BUILDING STRUCTURAL STEEL.

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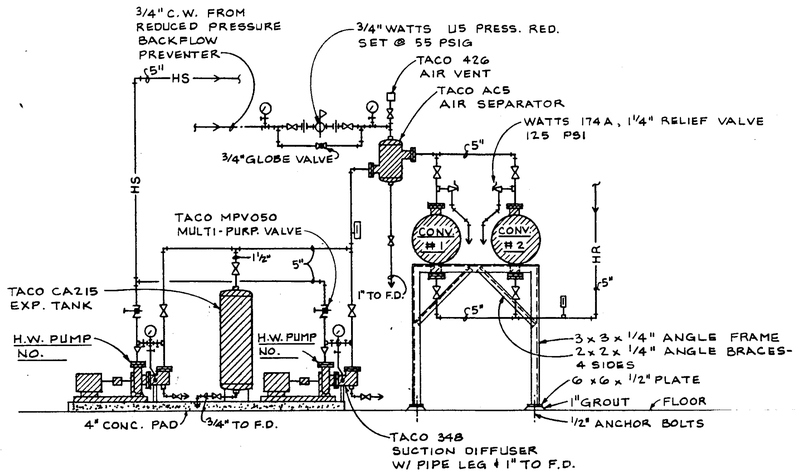
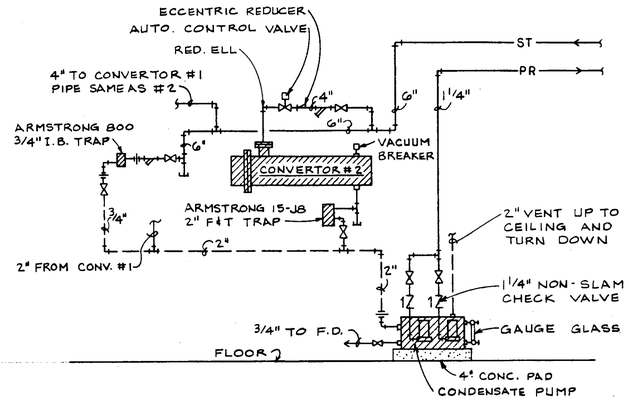
COMM. NO. 11990
M16
DATE: SEPT. 15, 1991

BRUNING 42-5020 12/191



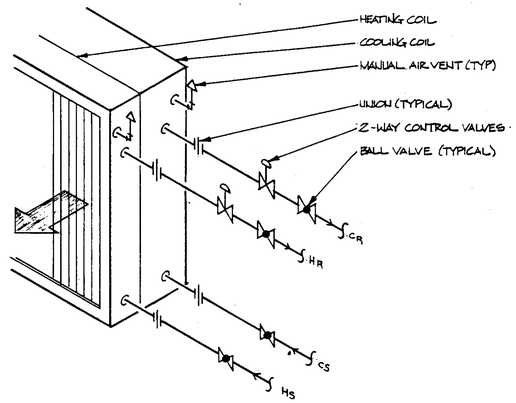
1 HOT WATER PIPING DIAGRAM CONVERTOR #1 AND #2

NTS



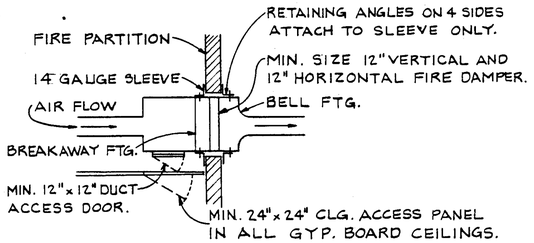
2 STEAM PIPING DIAGRAM CONVERTOR #1 AND #2

NTS



7 FAN COIL UNIT PIPING DIAGRAM

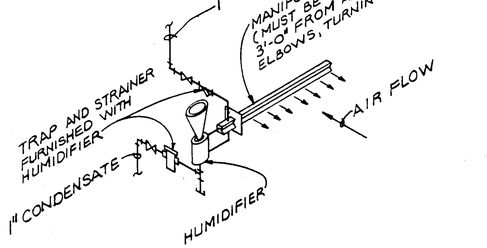
N.T.S. (PIPING CONNECTIONS TO BE OPPOSITE END)



3 DETAIL - FIRE DAMPER INSTALLATION

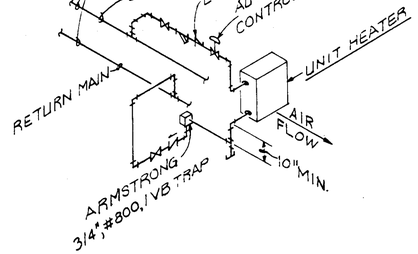
NTS FOR ALL DUCTS

NOTE: SEE FIRE DAMPER MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.



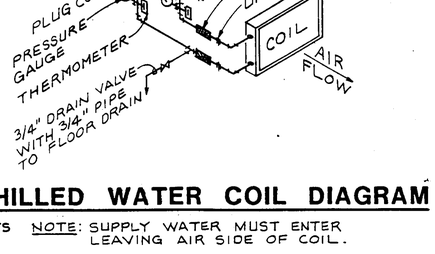
4 HUMIDIFIER PIPING DIAGRAM

N.T.S. (FURNISH WITH TEMPERATURE SWITCH)



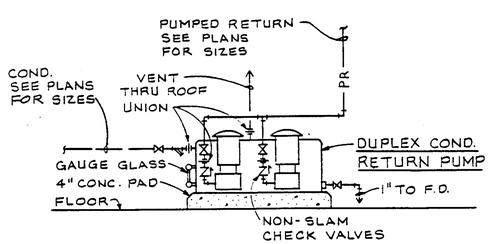
9 STEAM UNIT HEATER PIPING DIAGRAM

N.T.S.



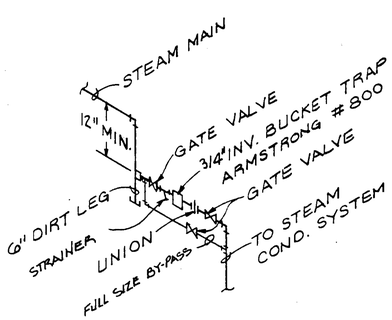
8 CHILLED WATER COIL DIAGRAM

NTS NOTE: SUPPLY WATER MUST ENTER LEAVING AIR SIDE OF COIL.



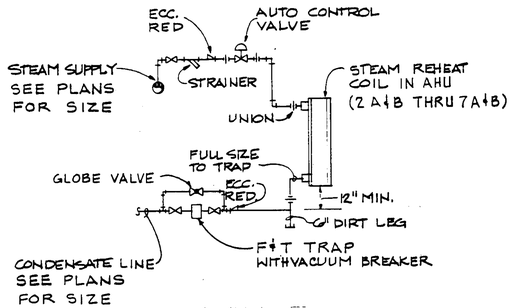
5 CONDENSATE PUMP PIPING DIAGRAM

NTS



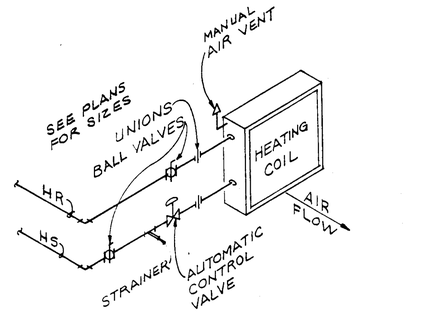
6 MAIN DRIP

N.T.S.



10 STEAM REHEAT COIL PIPING DIAGRAM

N.T.S.



11 REHEAT COIL AND TERMINAL UNIT PIPING DIAGRAM

NTS: NOTE: SUPPLY WATER MUST ENTER LEAVING AIR SIZE OF COIL.

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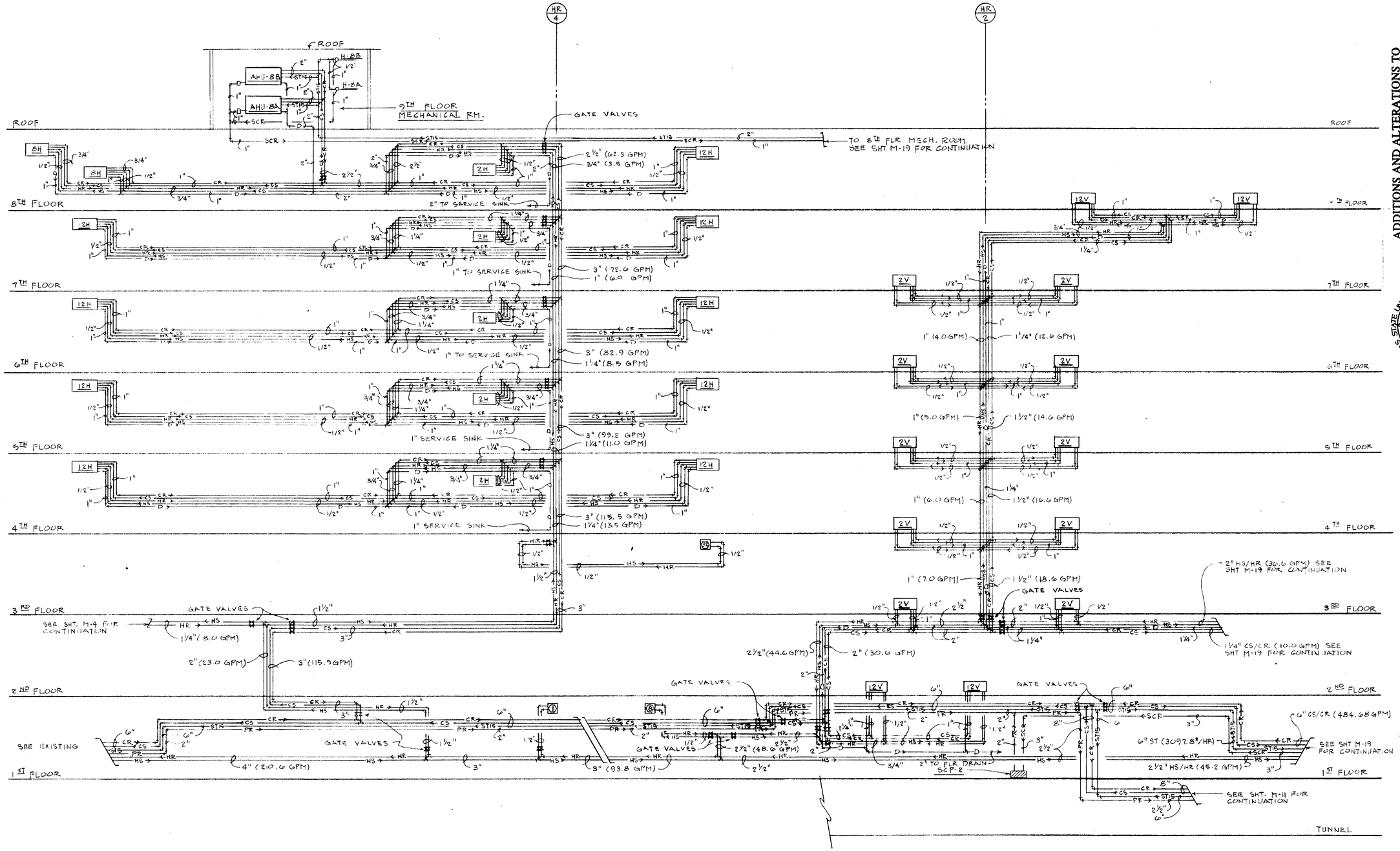

HVAC RISER DIAGRAM

NTS

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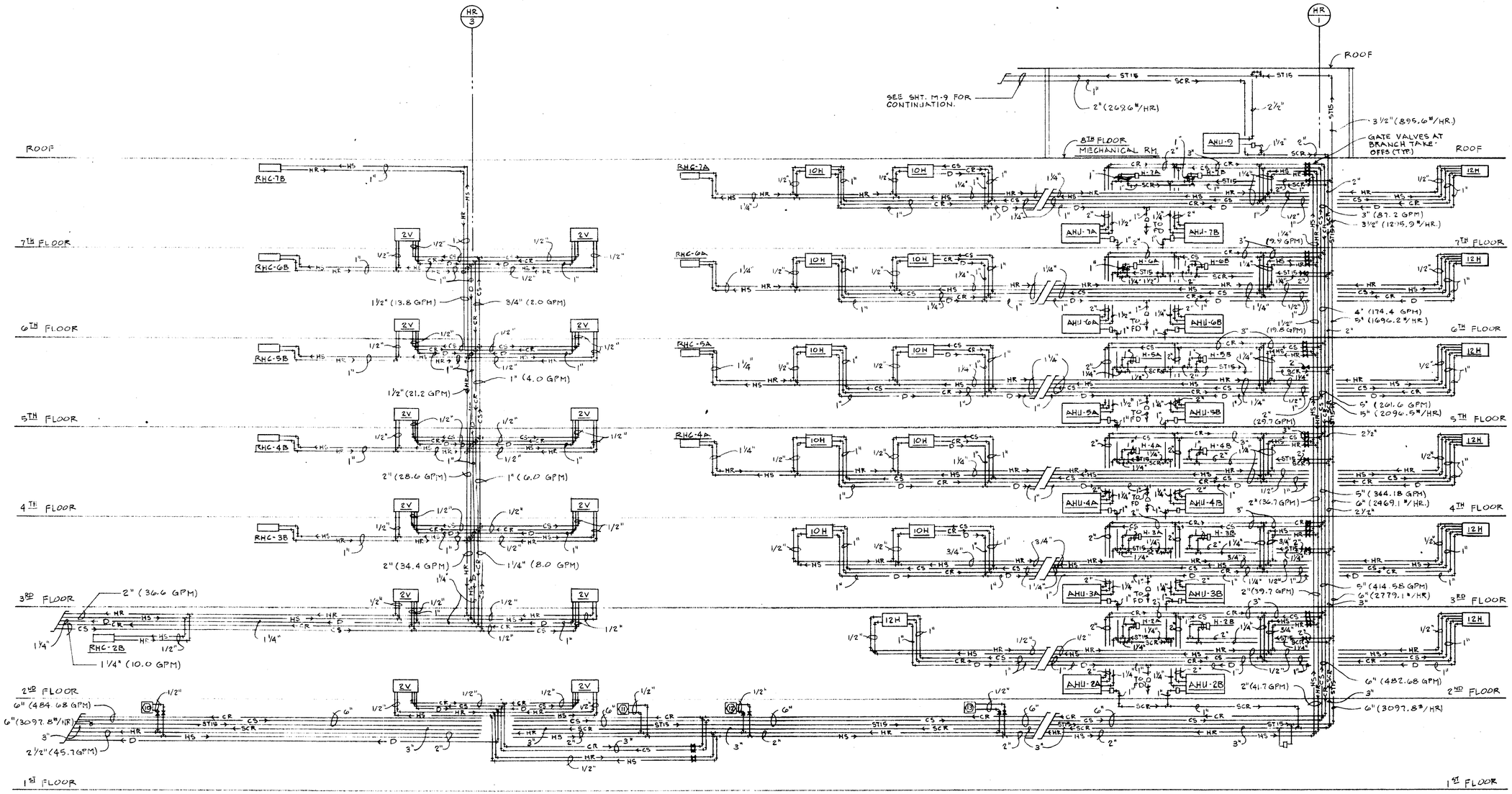

HVAC RISER DIAGRAM

NTS

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ROOF EQUIPMENT :

RD-1 ROOF DRAIN - WADE W-3000 SERIES, CAST IRON WITH DOME IRON DOME, FLASHING RING AND DECK CLAMP.

RD-2 ROOF DRAIN - WADE W-3240-B CAST IRON SILL DRAIN WITH BRONZE FLASHING RING AND DOME STRAINER. NOTE: MUST FURNISH CUSTOM CUT NEOPRENE GASKET TO GO UNDER FLASHING RING TO INSURE A WATERTIGHT FIT BETWEEN ROOF DRAIN AND GUTTER.

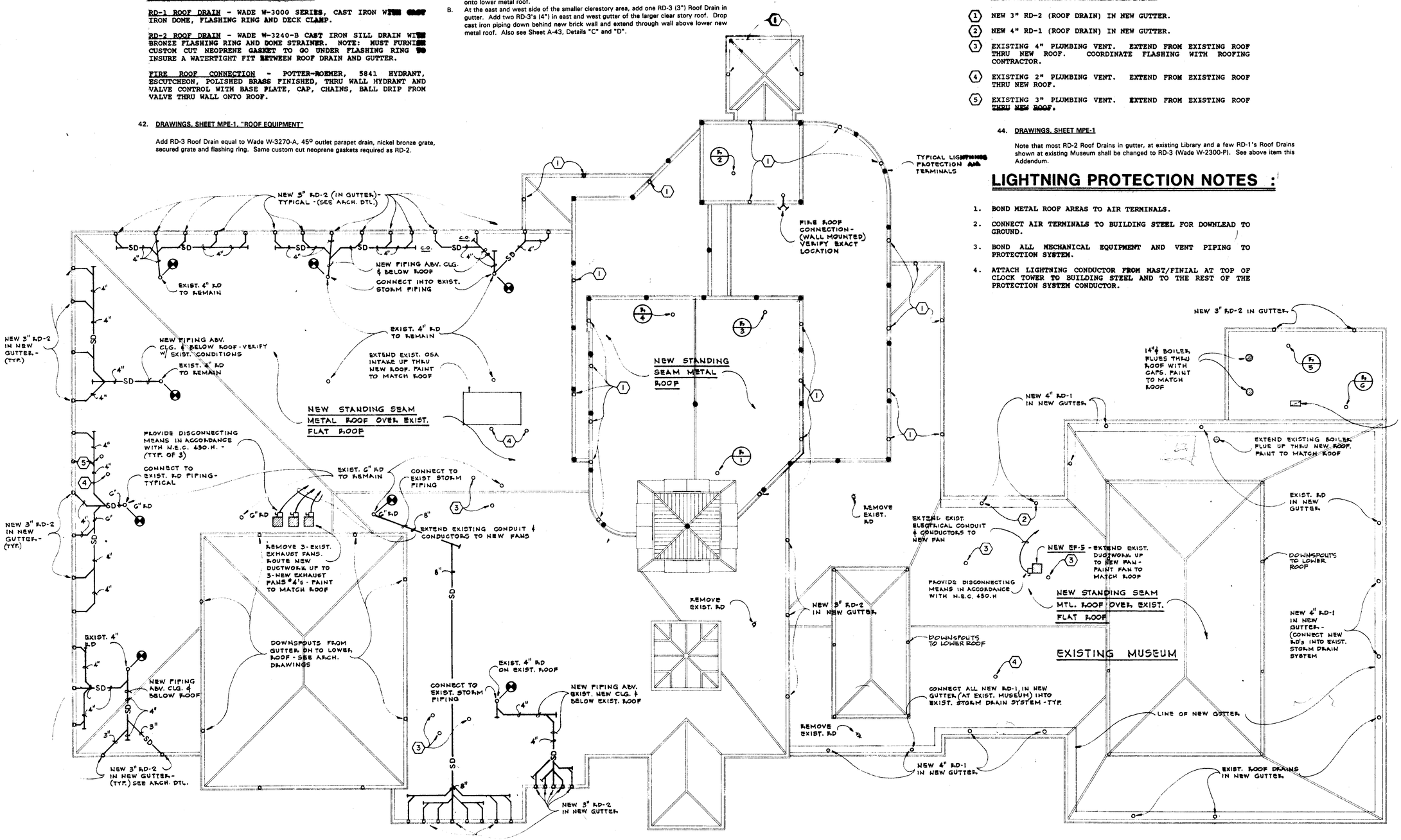
FIRE ROOF CONNECTION - POTTER-ROEMER, 5841 HYDRANT, ESCUTCHEON, POLISHED BRASS FINISHED, THRU WALL HYDRANT AND VALVE CONTROL WITH BASE PLATE, CAP, CHAINS, BALL DRIP FROM VALVE THRU WALL ONTO ROOF.

42. DRAWINGS, SHEET MPE-1, "ROOF EQUIPMENT"

Add RD-3 Roof Drain equal to Wade W-3270-A, 45° outlet parapet drain, nickel bronze grate, secured grate and flashing ring. Same custom cut neoprene gaskets required as RD-2.

A. At the two clerestory areas at Museum, add one RD-2 Roof Drain in gutter at north and south end. Run 3" pipe horizontal above glass to below brick wall. Drop down and spill onto lower metal roof.

B. At the east and west side of the smaller clerestory area, add one RD-3 (3") Roof Drain in gutter. Add two RD-3's (4") in east and west gutter of the larger clear story roof. Drop cast iron piping down behind new brick wall and extend through wall above lower new metal roof. Also see Sheet A-43, Details "C" and "D".



MECHANICAL & ELECTRICAL ROOF PLAN

1/16"=1'-0"

NORTH

PLUMBING NOTES :

1. NEW 3" RD-2 (ROOF DRAIN) IN NEW GUTTER.
2. NEW 4" RD-1 (ROOF DRAIN) IN NEW GUTTER.
3. EXISTING 4" PLUMBING VENT. EXTEND FROM EXISTING ROOF THRU NEW ROOF. COORDINATE FLASHING WITH ROOFING CONTRACTOR.
4. EXISTING 2" PLUMBING VENT. EXTEND FROM EXISTING ROOF THRU NEW ROOF.
5. EXISTING 3" PLUMBING VENT. EXTEND FROM EXISTING ROOF THRU NEW ROOF.

44. DRAWINGS, SHEET MPE-1

Note that most RD-2 Roof Drains in gutter, at existing Library and a few RD-1's Roof Drains shown at existing Museum shall be changed to RD-3 (Wade W-2300-P). See above item this Addendum.

LIGHTNING PROTECTION NOTES :

1. BOND METAL ROOF AREAS TO AIR TERMINALS.
2. CONNECT AIR TERMINALS TO BUILDING STEEL FOR DOWNLEAD TO GROUND.
3. BOND ALL MECHANICAL EQUIPMENT AND VENT PIPING TO PROTECTION SYSTEM.
4. ATTACH LIGHTNING CONDUCTOR FROM MAST/FINIAL AT TOP OF CLOCK TOWER TO BUILDING STEEL AND TO THE REST OF THE PROTECTION SYSTEM CONDUCTOR.

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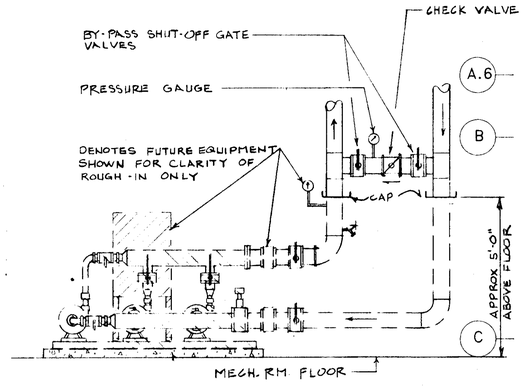


ROUGH IN FOR FUTURE 2 DOMESTIC WATER BOOSTER PUMP

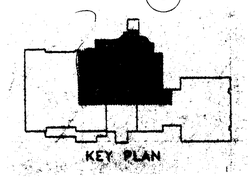
FIRE PROTECTION & PLUMBING NOTES

1. THESE AREAS REQUIRE SPRINKLER HEADS AT TOP OF ELEVATOR SHAFT AND HEADS BELOW LOWEST POINT OF ELEVATOR CAR TRAVEL.
2. THESE AREAS DO NOT REQUIRE FIRE SPRINKLERS.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIRE HOSE CABINETS.
4. PRESSURE REDUCING VALVE, WATTS SERIES 223, STRAINER, DIELECTRIC UNIONS.
5. CROSSHATCHED AREAS REQUIRE AN AUTOMATIC FIRE SPRINKLER SYSTEM. SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILE AND LOCATED SYMMETRICALLY IN ROOMS/SPACES AS MUCH AS PRACTICAL. SEE HVAC AND ELECTRICAL DRAWINGS FOR GRILLES, LIGHTS, ETC. (TYPICAL ALL FLOORS).
6. COORDINATE ZONING WITH ELECTRICAL DRAWINGS.
7. FLOOR CLEANOUTS SHALL NOT BE LOCATED IN ANY SPECIAL FLOORING AREA AND SHALL BE LOCATED IN JANITOR CLOSETS, STORAGE ROOMS, UNDER LAVATORY COUNTERS, DRINKING FOUNTAINS, ETC., AS MUCH AS POSSIBLE.
8. ALL VALVES MUST BE ACCESSIBLE IF INSTALLED ABOVE A FIXED CEILING. ACCESS PANEL SHALL BE PROVIDED.

1 FIRST FLOOR PLUMBING PLAN PART "A"

1/8"=1'-0"

NORTH



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CCNA NO. 11980
P1
DATE SEPT. 15, 1994

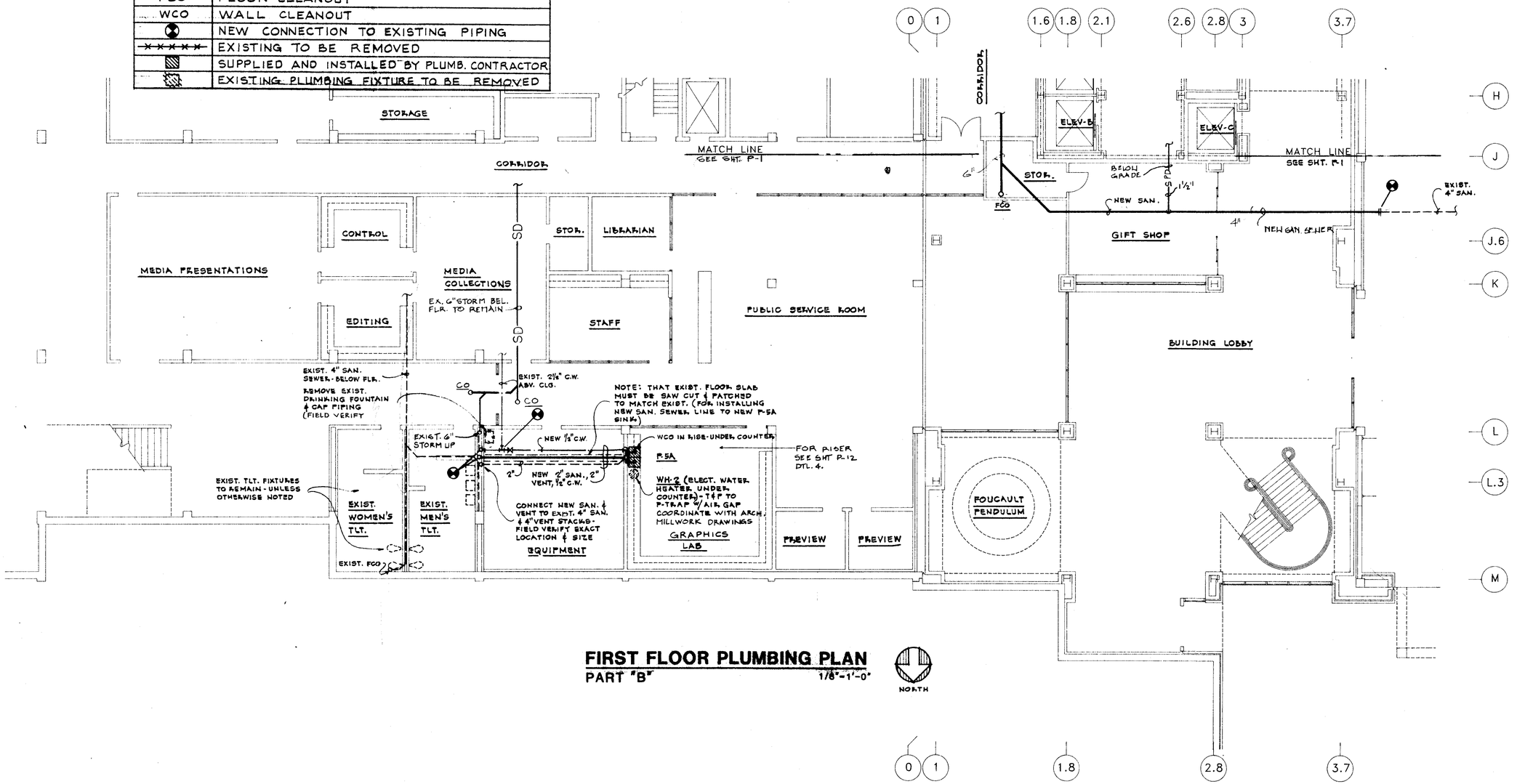
DRAWING 45-0020 221891

PLUMBING LEGEND

SYMBOL	DESCRIPTION
———	SOIL, WASTE OR SANITARY SEWER
- - - - -	SANITARY VENT
—SD—	STORM DRAIN
———	COLD WATER
——··——	120° HOT WATER
——···——	120° HOT WATER RETURN
—G—	NATURAL GAS
	GATE VALVE
	PLUG COCK
	GLOBE VALVE
	CHECK VALVE
P-1	PLUMBING FIXTURE
FD	FLOOR DRAIN
RD	ROOF DRAIN
VTR	VENT THROUGH ROOF
CO	CLEANOUT PLUG
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
	NEW CONNECTION TO EXISTING PIPING
××××××	EXISTING TO BE REMOVED
	SUPPLIED AND INSTALLED BY PLUMB. CONTRACTOR
	EXISTING PLUMBING FIXTURE TO BE REMOVED

FIRE PROTECTION LEGEND

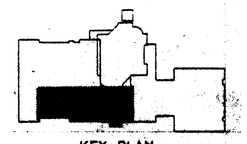
SYMBOL	DESCRIPTION
—SP—	FIRE SPRINKLER PIPING
—F—	FIRE PROTECTION WATER SUPPLY
	UPRIGHT SPRINKLER HEAD
	RECESSED SPRINKLER HEAD IN CEILING
	SUPERVISED INDICATING TYPE VALVE (O.S.&Y)
	FLOW SWITCH
	RECESSED FIRE HOSE 1½" – 100'
	RECESSED FIRE EXTINGUISHER CABINET (F.E.C.)
F.E.	FIRE EXTINGUISHER
F.H.C.	FIRE HOSE CABINET
O.S.&Y	OUTSIDE SCREW & YOKE
F.E.C.	FIRE EXTINGUISHER CABINET



FIRST FLOOR PLUMBING PLAN
PART "B"

1/8"=1'-0"

NORTH



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Brackett Kremerich and Associates P.A.

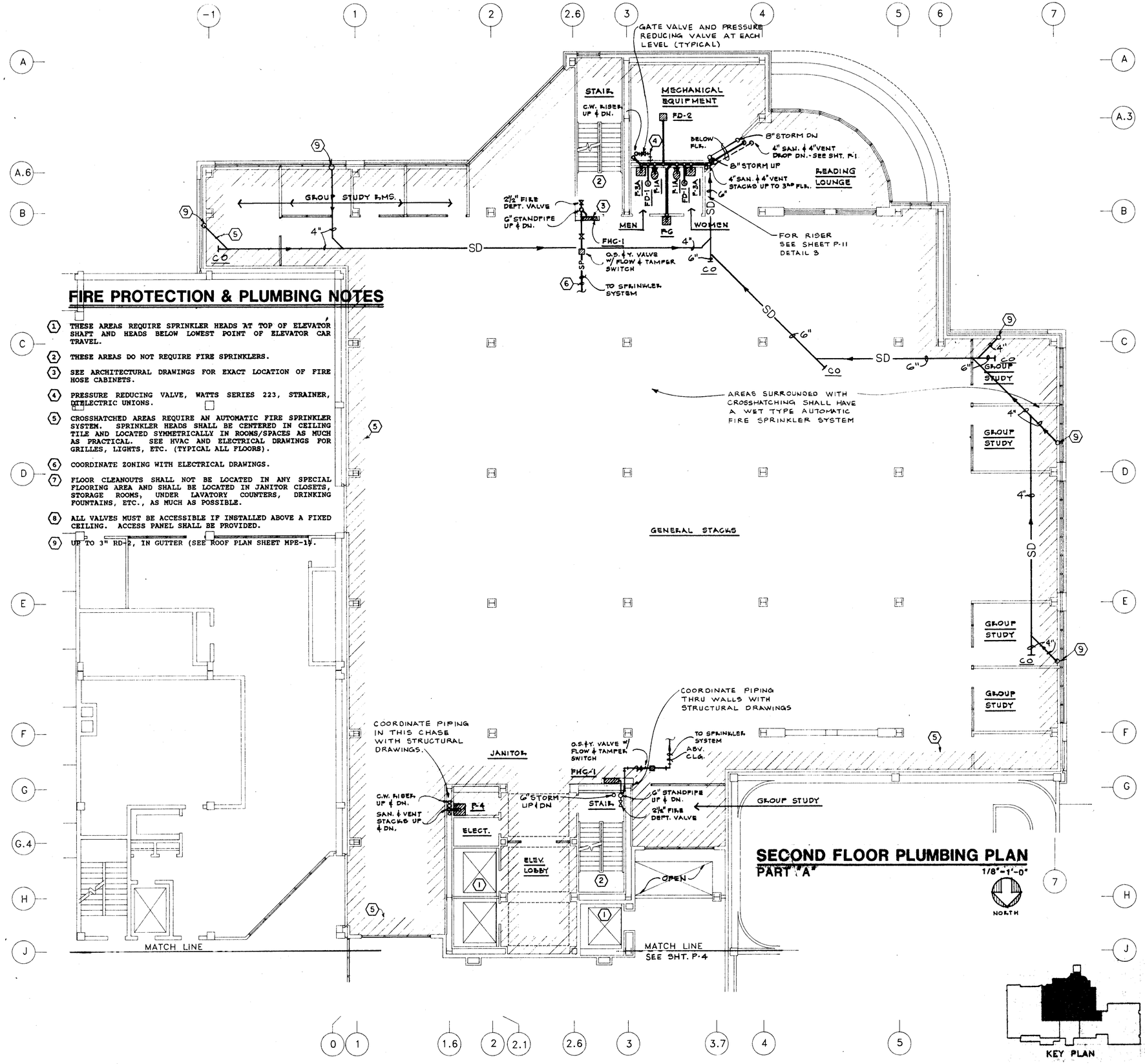
Architects, Engineers, Planners

COMM. NO. 11980
P2
DATE: SEPT. 15, 1980

BRUNING 40-0010 321881

FIRE PROTECTION & PLUMBING NOTES

1. THESE AREAS REQUIRE SPRINKLER HEADS AT TOP OF ELEVATOR SHAFT AND HEADS BELOW LOWEST POINT OF ELEVATOR CAR TRAVEL.
2. THESE AREAS DO NOT REQUIRE FIRE SPRINKLERS.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIRE HOSE CABINETS.
4. PRESSURE REDUCING VALVE, WATTS SERIES 223, STRAINER, DIELECTRIC UNIONS.
5. CROSSHATCHED AREAS REQUIRE AN AUTOMATIC FIRE SPRINKLER SYSTEM. SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILE AND LOCATED SYMMETRICALLY IN ROOMS/SPACES AS MUCH AS PRACTICAL. SEE HVAC AND ELECTRICAL DRAWINGS FOR GRILLES, LIGHTS, ETC. (TYPICAL ALL FLOORS).
6. COORDINATE ZONING WITH ELECTRICAL DRAWINGS.
7. FLOOR CLEANOUTS SHALL NOT BE LOCATED IN ANY SPECIAL FLOORING AREA AND SHALL BE LOCATED IN JANITOR CLOSETS, STORAGE ROOMS, UNDER LAVATORY COUNTERS, DRINKING FOUNTAINS, ETC., AS MUCH AS POSSIBLE.
8. ALL VALVES MUST BE ACCESSIBLE IF INSTALLED ABOVE A FIXED CEILING. ACCESS PANEL SHALL BE PROVIDED.
9. UP TO 3" RD-2, IN GUTTER (SEE ROOF PLAN SHEET MPE-1).



SECOND FLOOR PLUMBING PLAN
PART "A"

1/8"-1'-0"

NORTH

KEY PLAN

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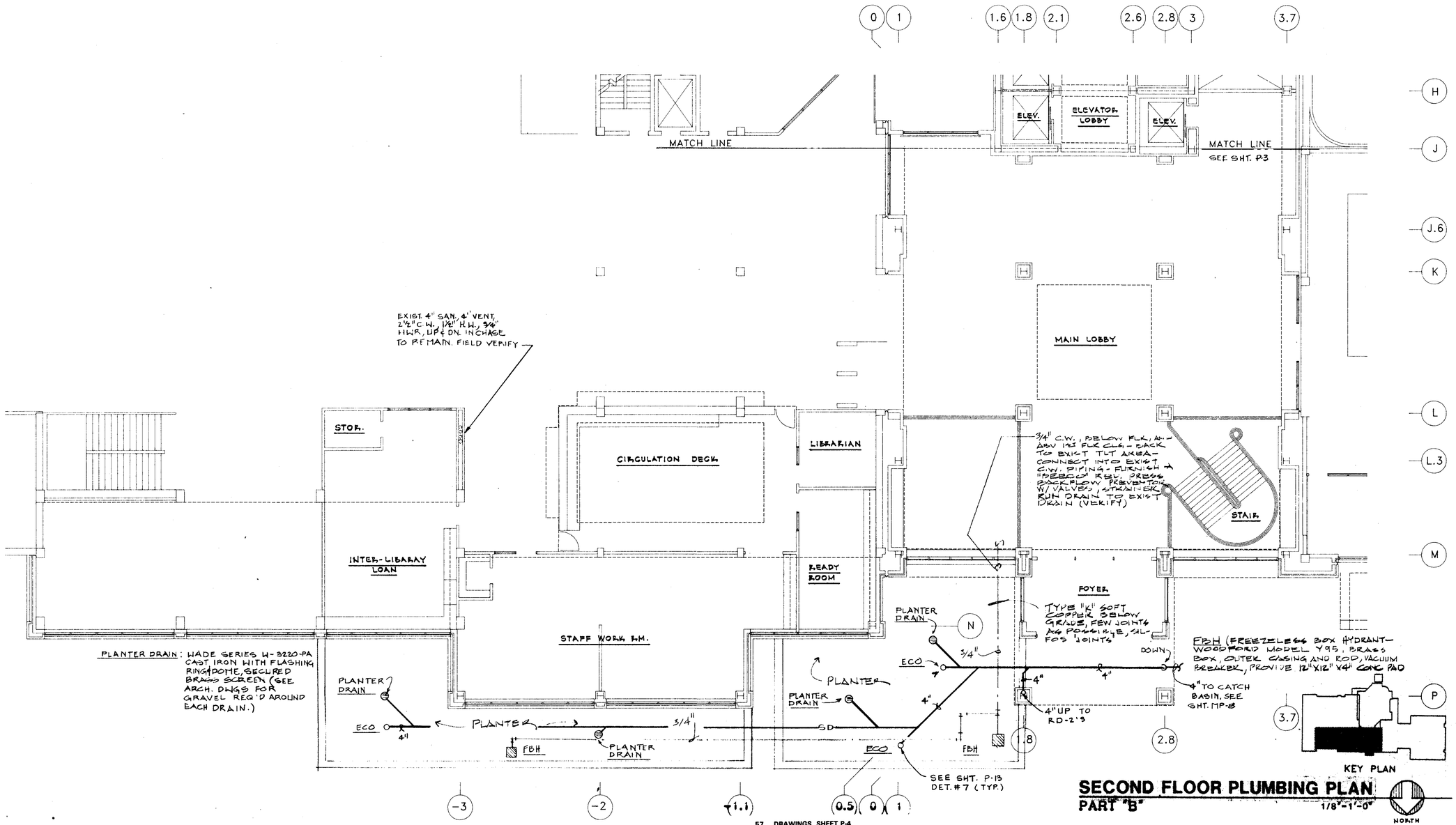

SECOND FLOOR PLUMBING PLAN
PART "B"
1/8"=1'-0"

57. **DRAWINGS, SHEET P-4**
Change 4" drain line from planter at Column P/1 to 6" (from these two ECO's to catch basin).

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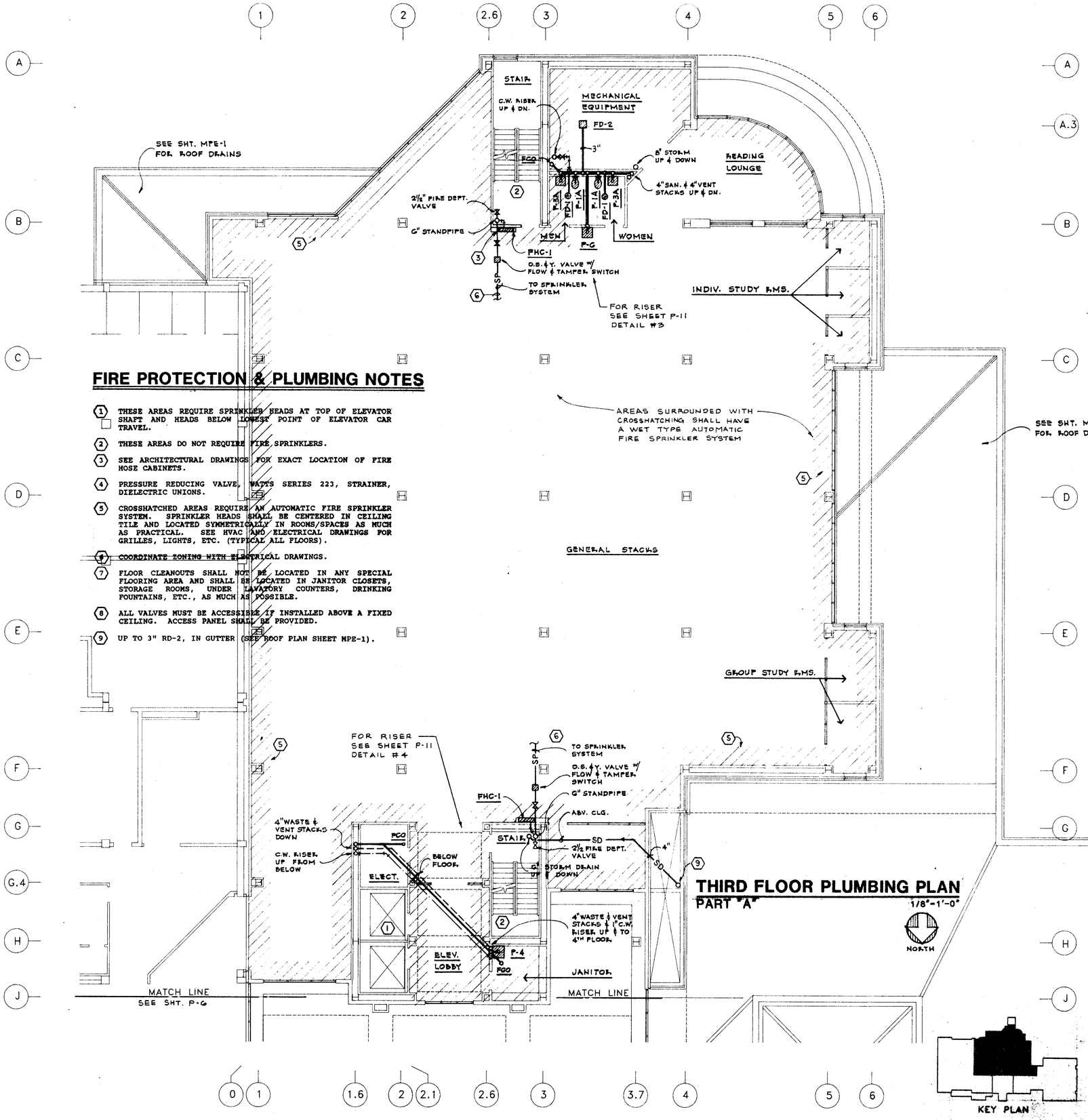

FIRE PROTECTION & PLUMBING NOTES

1. THESE AREAS REQUIRE SPRINKLER HEADS AT TOP OF ELEVATOR SHAFT AND HEADS BELOW LOWEST POINT OF ELEVATOR CAR TRAVEL.
2. THESE AREAS DO NOT REQUIRE FIRE SPRINKLERS.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIRE HOSE CABINETS.
4. PRESSURE REDUCING VALVE, WATTS SERIES 223, STRAINER, DIELECTRIC UNIONS.
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8. ALL VALVES MUST BE ACCESSIBLE IF INSTALLED ABOVE A FIXED CEILING. ACCESS PANEL SHALL BE PROVIDED.
9. UP TO 3" RD-2, IN GUTTER (SEE ROOF PLAN SHEET MPE-1).

THIRD FLOOR PLUMBING PLAN
PART "A"

1/8"=1'-0"

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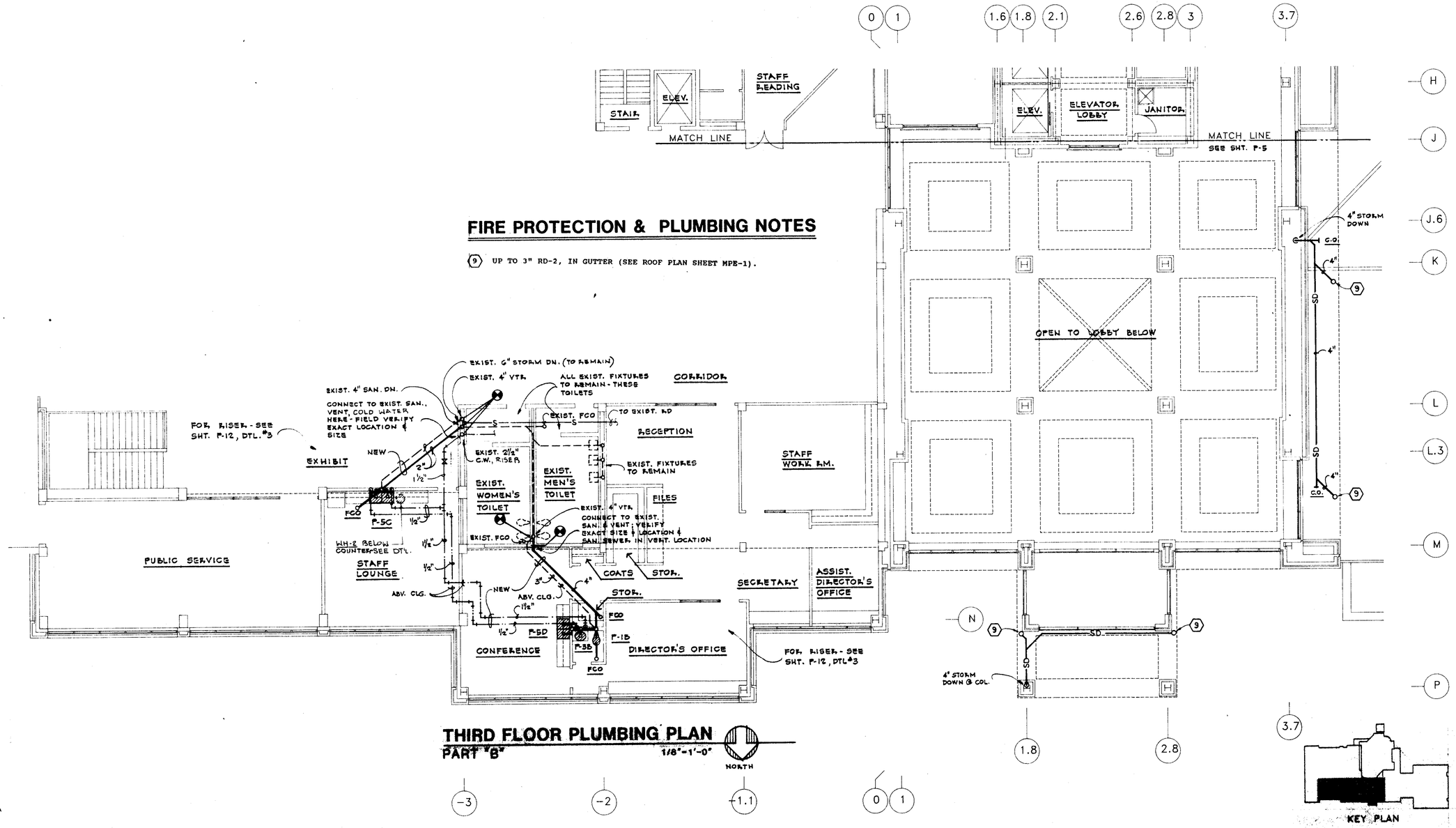
FIRE PROTECTION & PLUMBING NOTES

(9) UP TO 3" RD-2, IN GUTTER (SEE ROOF PLAN SHEET MPE-1).



THIRD FLOOR PLUMBING PLAN
PART "B"
1/8"=1'-0"

NORTH

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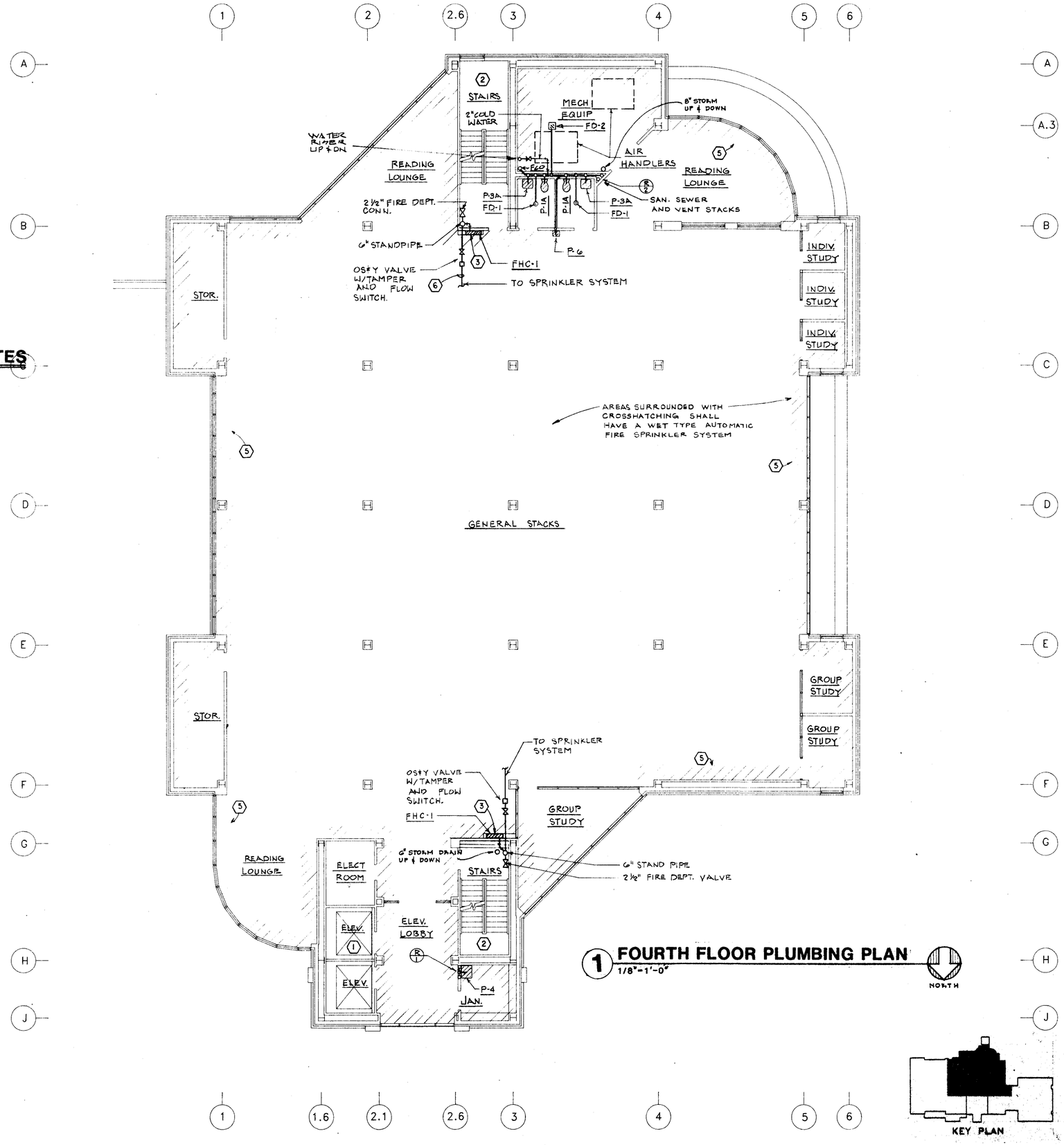
COMM. NO. 11990
P6
DATE: SEPT. 15, 1991

FIRE PROTECTION & PLUMBING NOTES

1. THESE AREAS REQUIRE SPRINKLER HEADS AT TOP OF ELEVATOR SHAFT AND HEADS BELOW LOWEST POINT OF ELEVATOR CAR TRAVEL.
2. THESE AREAS DO NOT REQUIRE FIRE SPRINKLERS.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIRE HOSE CABINETS.
4. PRESSURE REDUCING VALVE, WATTS SERIES 223, STRAINER, DIELECTRIC UNIONS.
5. CROSSHATCHED AREAS REQUIRE AN AUTOMATIC FIRE SPRINKLER SYSTEM. SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILE AND LOCATED SYMMETRICALLY IN ROOMS/SPACES AS MUCH AS PRACTICAL. SEE HVAC AND ELECTRICAL DRAWINGS FOR GRILLES, LIGHTS, ETC. (TYPICAL ALL FLOORS).
6. COORDINATE ZONING WITH ELECTRICAL DRAWINGS.
7. FLOOR CLEANOUTS SHALL NOT BE LOCATED IN ANY SPECIAL FLOORING AREA AND SHALL BE LOCATED IN JANITOR CLOSETS, STORAGE ROOMS, UNDER LAVATORY COUNTERS, DRINKING FOUNTAINS, ETC., AS MUCH AS POSSIBLE.
8. ALL VALVES MUST BE ACCESSIBLE IF INSTALLED ABOVE A FIXED CEILING. ACCESS PANEL SHALL BE PROVIDED.



1 FOURTH FLOOR PLUMBING PLAN
1/8"=1'-0"

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER H. W. GOODMAN, JR. No. 1657

COMM. NO. 11880
P7
DATE: SEPT. 15, 1991

Architects Engineers Planners

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FIRE PROTECTION & PLUMBING NOTES

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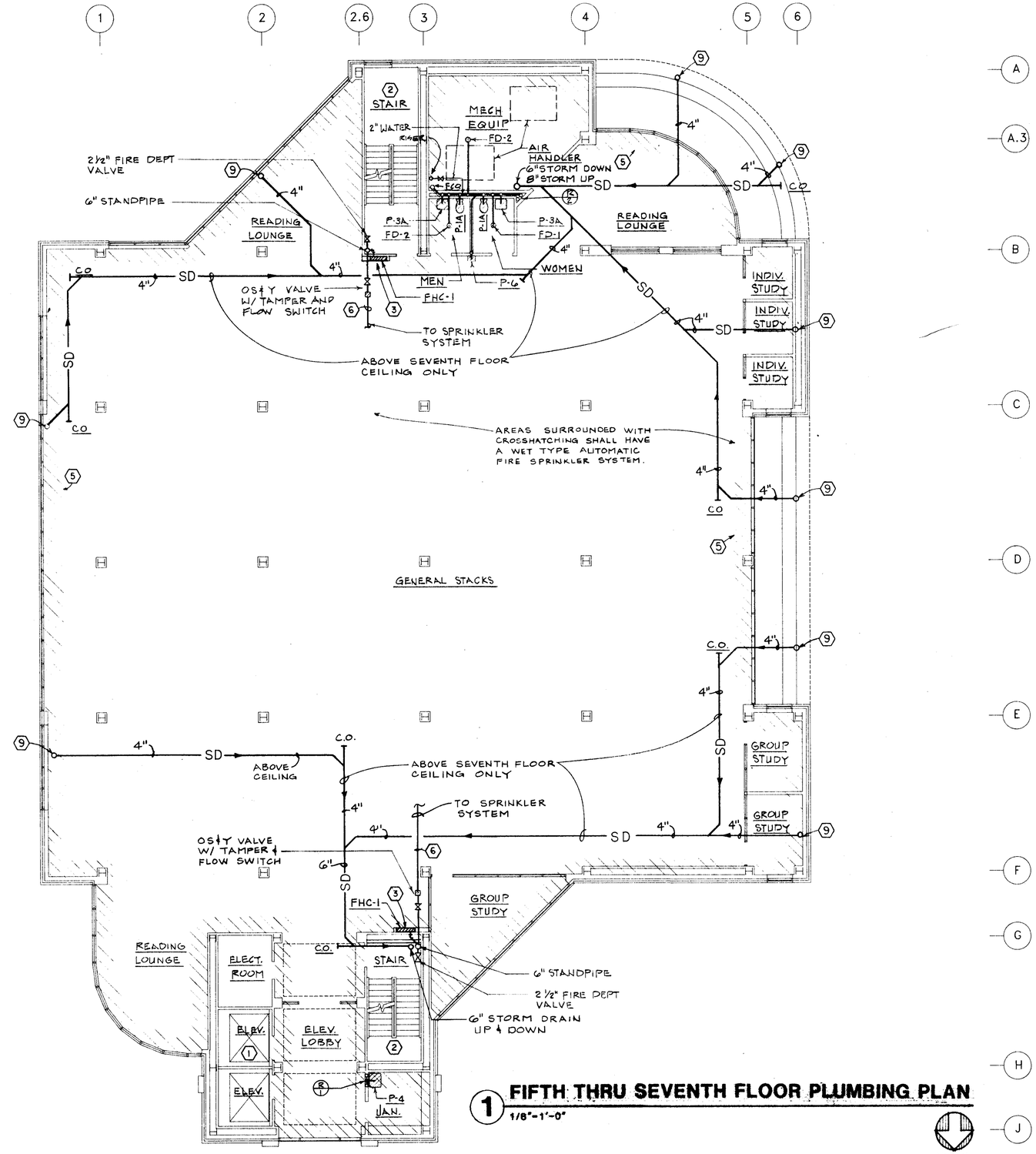
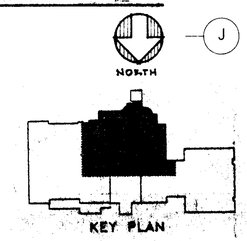
9. UP TO 3" RD-2, IN GUTTER (SEE ROOF PLAN SHEET MPE-1).



1 FIFTH THRU SEVENTH FLOOR PLUMBING PLAN
1/8"=1'-0"



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COMM. NO. 11990
P8
DATE: SEPT. 15, 1991

FIRE PROTECTION & PLUMBING NOTES

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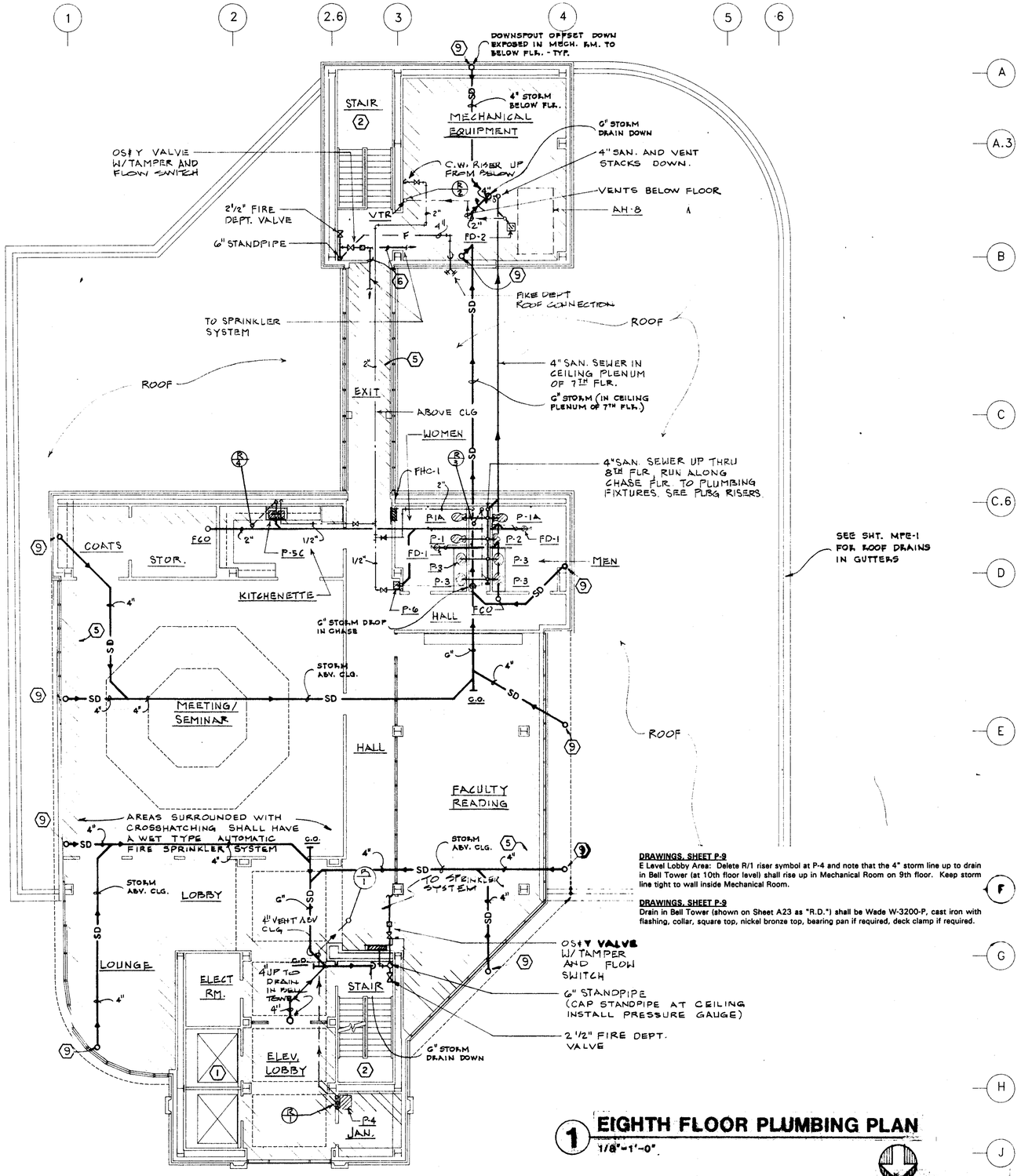
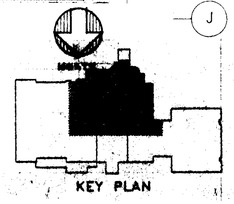


DRAWINGS, SHEET P-9
E Level Lobby Area: Delete R/1 riser symbol at P-4 and note that the 4" storm line up to drain in Bell Tower (at 10th floor level) shall rise up in Mechanical Room on 9th floor. Keep storm line tight to wall inside Mechanical Room.

DRAWINGS, SHEET P-9
Drain in Bell Tower (shown on Sheet A23 as "R.D.") shall be Wade W-3200-P, cast iron with flashing, collar, square top, nickel bronze top, bearing pan if required, deck clamp if required.

1 EIGHTH FLOOR PLUMBING PLAN
1/8"=1'-0"



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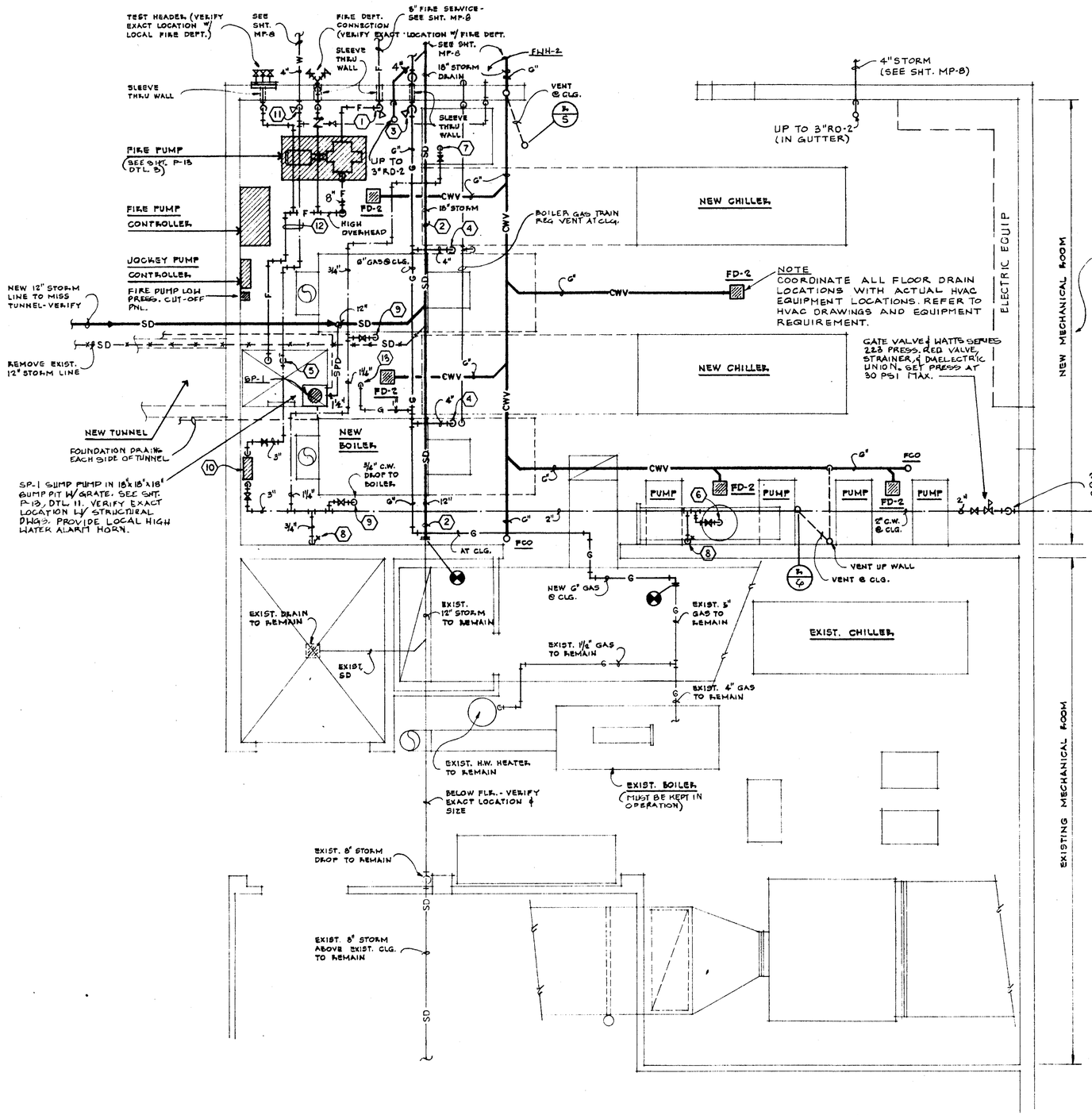
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER H. W. GOODMAN, JR. No. 1657

COMM. NO. 11980
P9
DATE: SEPT. 15, 1981

Architects Engineers Planners



COOLING TOWER PLUMBING PLAN

SCALE: 1/16" = 1'-0"

MECHANICAL ROOM PLUMBING PLAN

1/4" = 1'-0"

NORTH

KEYED PLUMBING NOTES:

1. 8" RISER WITH OS&Y AND DOUBLE CHECK VALVES.
2. REMOVE EXISTING STORM LINE UNDER PROPOSED NEW MECHANICAL ROOM. VERIFY EXACT LOCATION AND SIZE. REPLACE WITH NEW CAST IRON IN APPROXIMATELY SAME LOCATION AS EXISTING.
3. NEW 6" GAS SERVICE WITH SLEEVE THRU WALL. CAULK, SLEEVE AND ESCUTCHEONS BOTH SIDES OF WALL. GAS RISE TO CEILING WITH GAS VALVE IN RISE.
4. 4" GAS DROP TO NEW BOILER WITH VALVE AND DIRT LEG. VENT GAS TRAIN REGULATOR TO OUTSIDE.
5. 4" COLD WATER DROP DOWN INTO TUNNEL.
6. 3/4" COLD WATER DROP TO CHILLED WATER SYSTEM. (SEE HVAC DRAWINGS.)
7. 3/4" COLD WATER DROP TO BOILER FEED SYSTEM. (SEE HVAC DRAWINGS.)
8. CHICAGO #952 HOSE BIBB. MOUNT 36" A.F.F. SECURE HOSE BIBB AND PIPING TO WALL.
9. 3/4" COLD WATER DROP TO NEW BOILER. (SEE HVAC DRAWINGS FOR CONNECTION.)
10. 3" "BEECO" REDUCED PRESSURE BACKFLOW PREVENTER. MOUNT 5'-0" A.F.F. SUPPLY GATE VALVES, DIELECTRIC UNIONS, STRAINER, COPPER FUNNEL AS SUPPLIED BY MANUFACTURER. RUN DRAIN TO FLOOR DRAIN.
11. 4" COLD WATER SERVICE, VALVE IN RISER, CHICAGO #998 HOSE BIBB JUST ABOVE VALVE.
12. RUN PIPE OVERHEAD, HIGH AS POSSIBLE OUT OF TRAFFIC. COORDINATE WITH STRUCTURAL AND HVAC DRAWINGS.
13. GAS LINE TO GAS UNIT HEATER. FURNISH GAS VALVE AND 6" LONG DIRT LEG. SEE HVAC DRAWINGS FOR EXACT LOCATION.

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
W. No. 1657
GOODMAN
Brackett Krennerich and Associates PA
Architects Engineers Planners

COMM. NO. 11980
PO
DATE: SEPT. 15, 1991

1 PLUMBING RISER AT EIGHT FLOOR
PART "A"

2 PLUMBING RISER AT MEN & WOMEN TLT. 4TH THRU 8TH FLOOR

3 PLUMBING RISER AT MEN & WOMEN TLT. 1ST THRU 3RD

DRAWINGS, SHEET P-11
Detail #4: Note R/1, vent through roof shall not extend vertically as shown but offset above 8th floor ceiling, and rise through roof as shown on Sheet P-9. Also note this 4" sanitary stack at P-4's shall extend to above 8th floor ceiling. Then run horizontally to Mechanical Room at 9th floor and connect to floor drain.

4 PLUMBING RISER AT JAN. RM. 1ST THRU 8TH FLOOR

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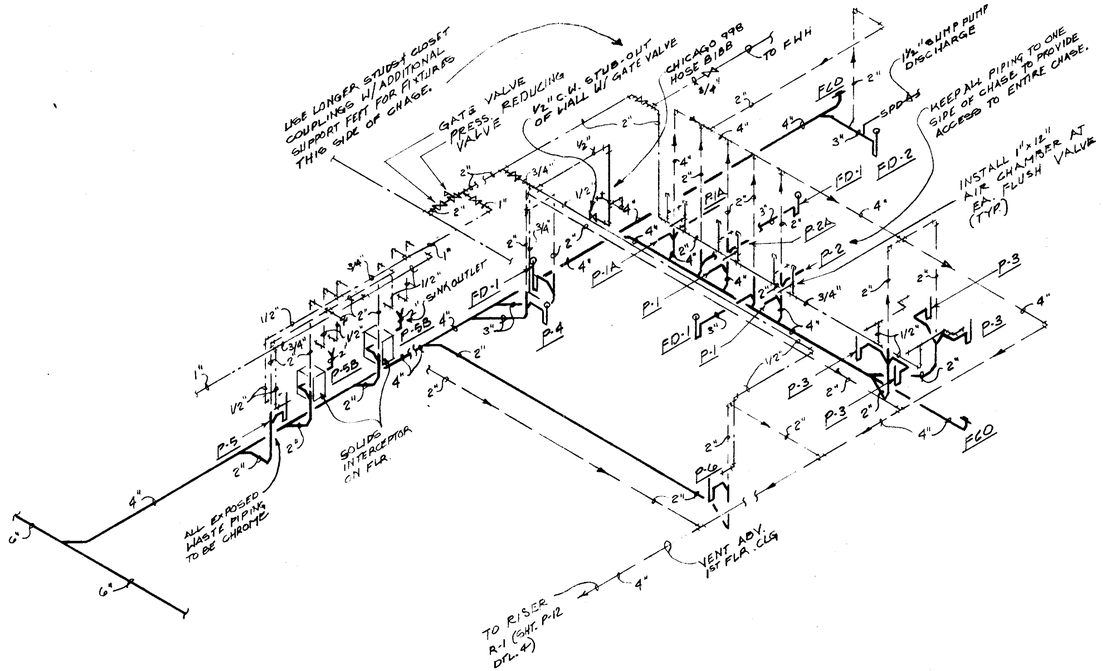
Architects, Engineers, Planners

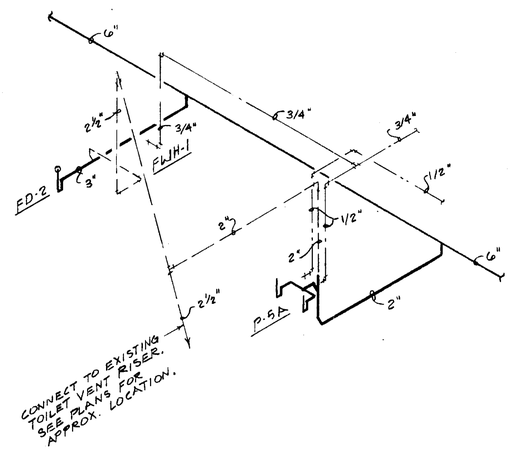
REGISTERED PROFESSIONAL ENGINEER
W. M. GOODMAN
No. 1657

ORIG. NO. 11900
P11
DATE SEPT. 13, 1985

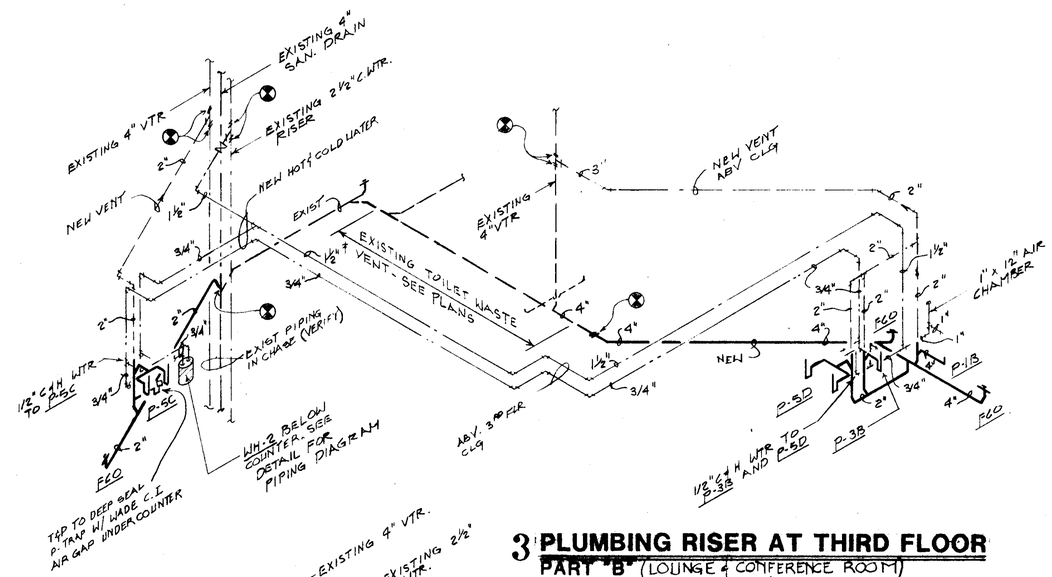
BRUNING 40-5020 32191



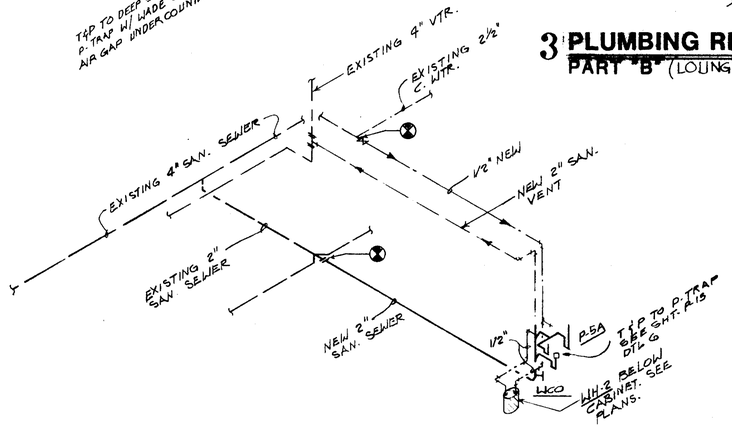
1 PLUMBING RISER AT FIRST FLOOR
PART "A"



2 PLUMBING RISER AT SERVICE & DOCK
FIRST FLOOR



3 PLUMBING RISER AT THIRD FLOOR
PART "B" (LOUNGE & CONFERENCE ROOM)



4 PLUMBING RISER AT GRAPHICS LAB FIRST FLOOR

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COMM. NO. 11980
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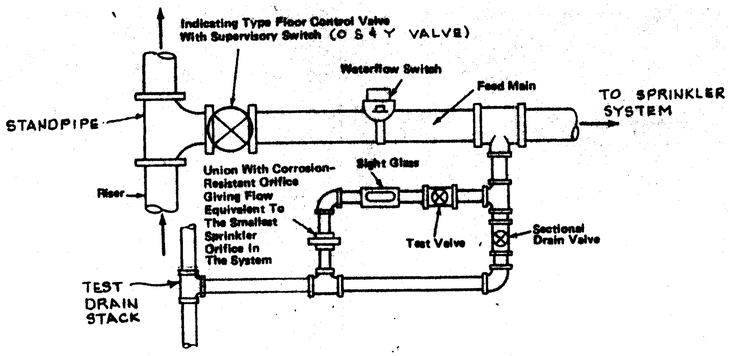
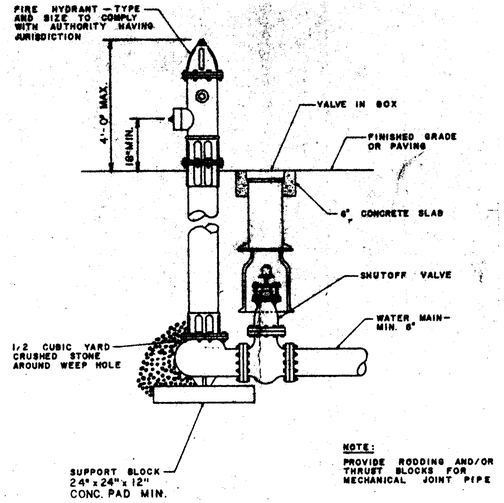
DATE: SEPT. 15, 1991



1 FLOOR CONTROL AND TEST DRAIN VALVE DETAIL

NTS



2 FIRE HYDRANT DETAIL

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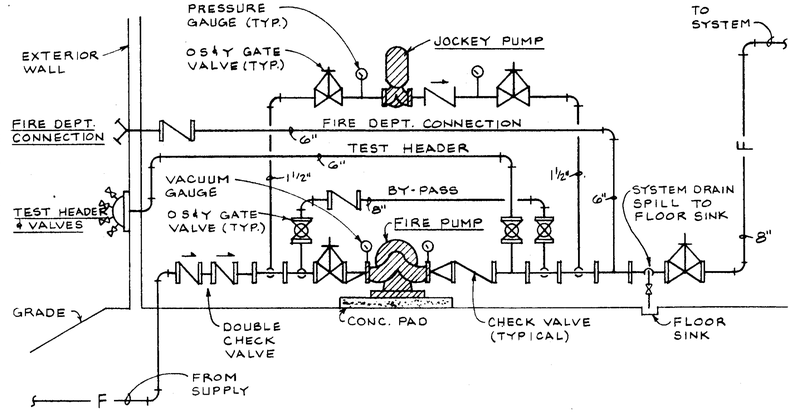

3 FIRE PUMP DETAIL

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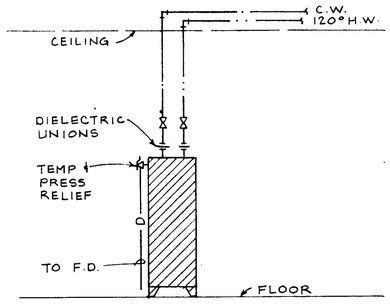
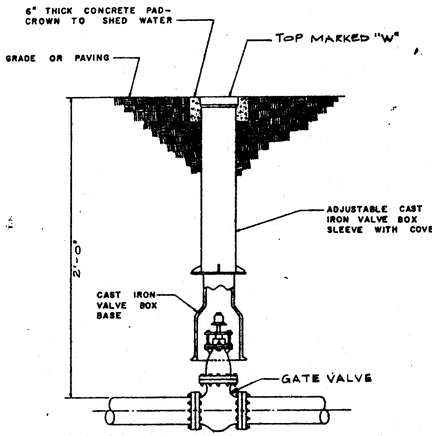


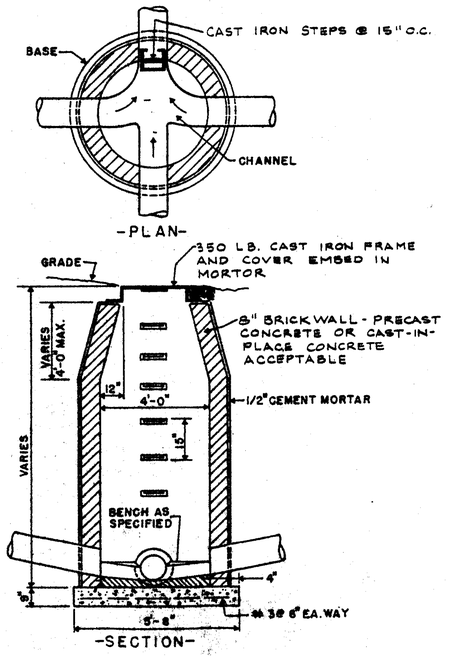
4 WATER HEATER (WH-1) PIPING DETAIL

NTS



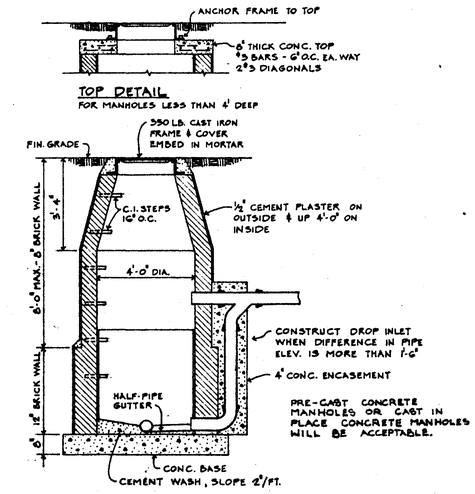
5 WATER VALVE IN BOX

NTS



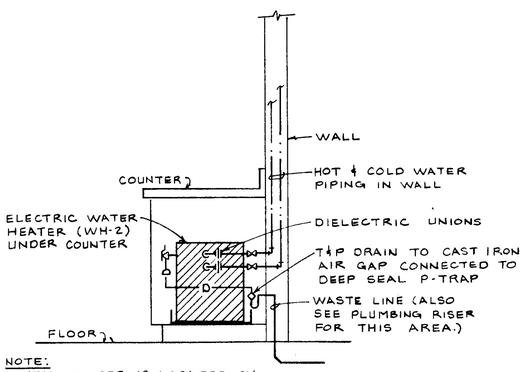
8 STORM SEWER MANHOLE

NTS



9 SANITARY SEWER MANHOLE

NTS



6 WATER HEATER (WH-2) PIPING DETAIL

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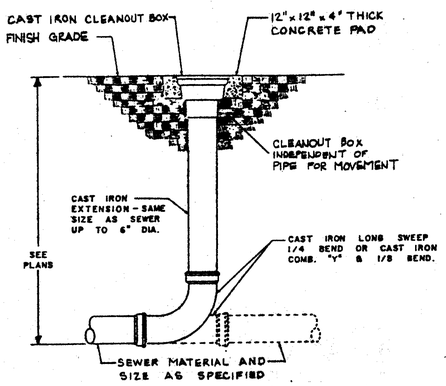
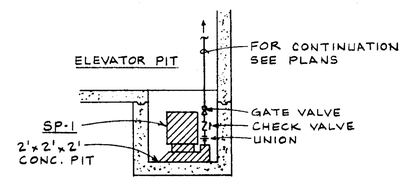


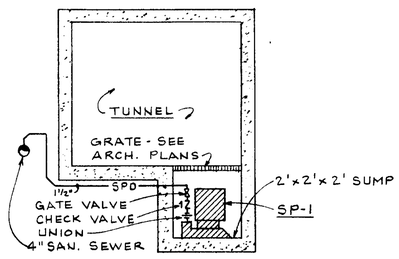
7 EXTERIOR CLEAN OUT

NTS



10 SUMP PUMP DETAIL AT ELEVATOR

NTS



11 SUMP PUMP DETAIL AT TUNNEL

NTS

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NOTE: REFERENCE MECHANICAL SHEET M-16 FOR SIESMIC DETAILS & NOTES. REFERENCE THE SPECIFICATIONS DIVISION 16000 FOR ADDITIONAL SIESMIC INFORMATION.

ELECTRICAL SITE PLAN

SCALE : 1" = 30'-0"

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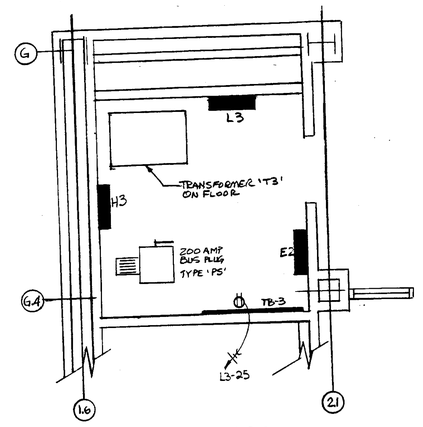
E1

DATE SEPT. 15, 1991



REFER. TO SHT. E-18

REVISED 3RD. FLOOR ELEC. ROOM

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RICHARD E. GOODMAN JR.

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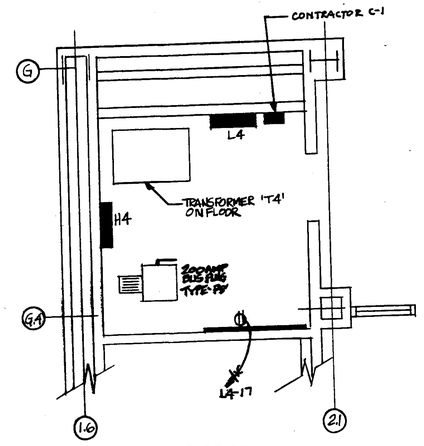
CONSULTING ENGINEERS
LITTLE ROCK, ARKANSAS

JOB NO.	
DATE	3-25-92
SHEET NO.	



REFER. TO SHT. E-20

REVISED 4TH. FLOOR ELEC. ROOM

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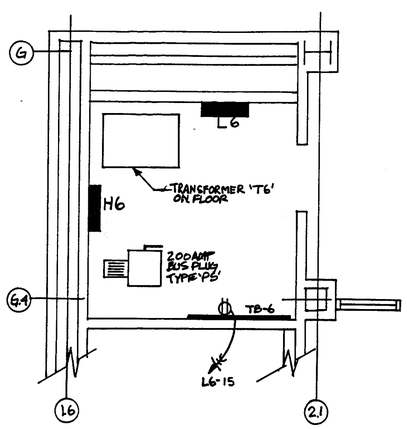

REFER TO SHT. E-21

REVISED 6TH FLOOR ELEC. ROOM

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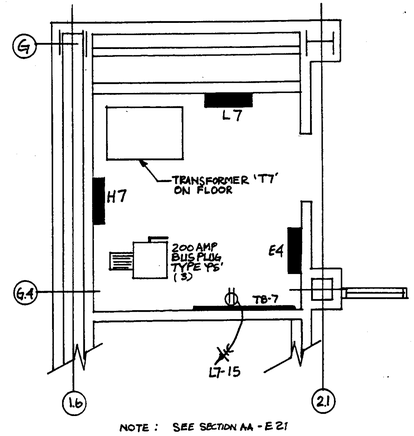

NOTE : SEE SECTION AA - E 21

REVISED 7TH FLOOR ELEC. ROOM

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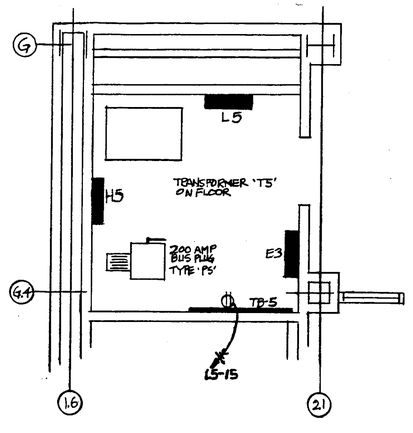

REFER TO SHT. E-21

REVISED 5TH FLOOR ELEC. ROOM

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DATE 3-25-92
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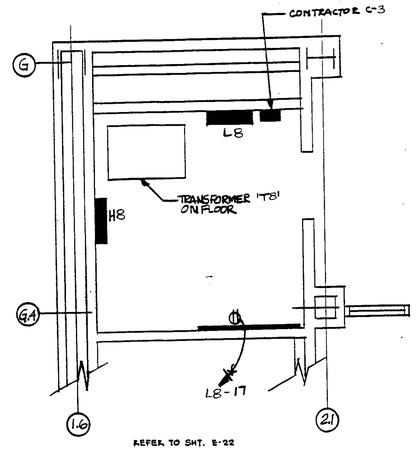

REFER TO SHT. E-22

REVISED 8TH FLOOR ELEC. ROOM

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
RICHARD E. GOSSETT

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JOB NO.

DATE 3-25-92

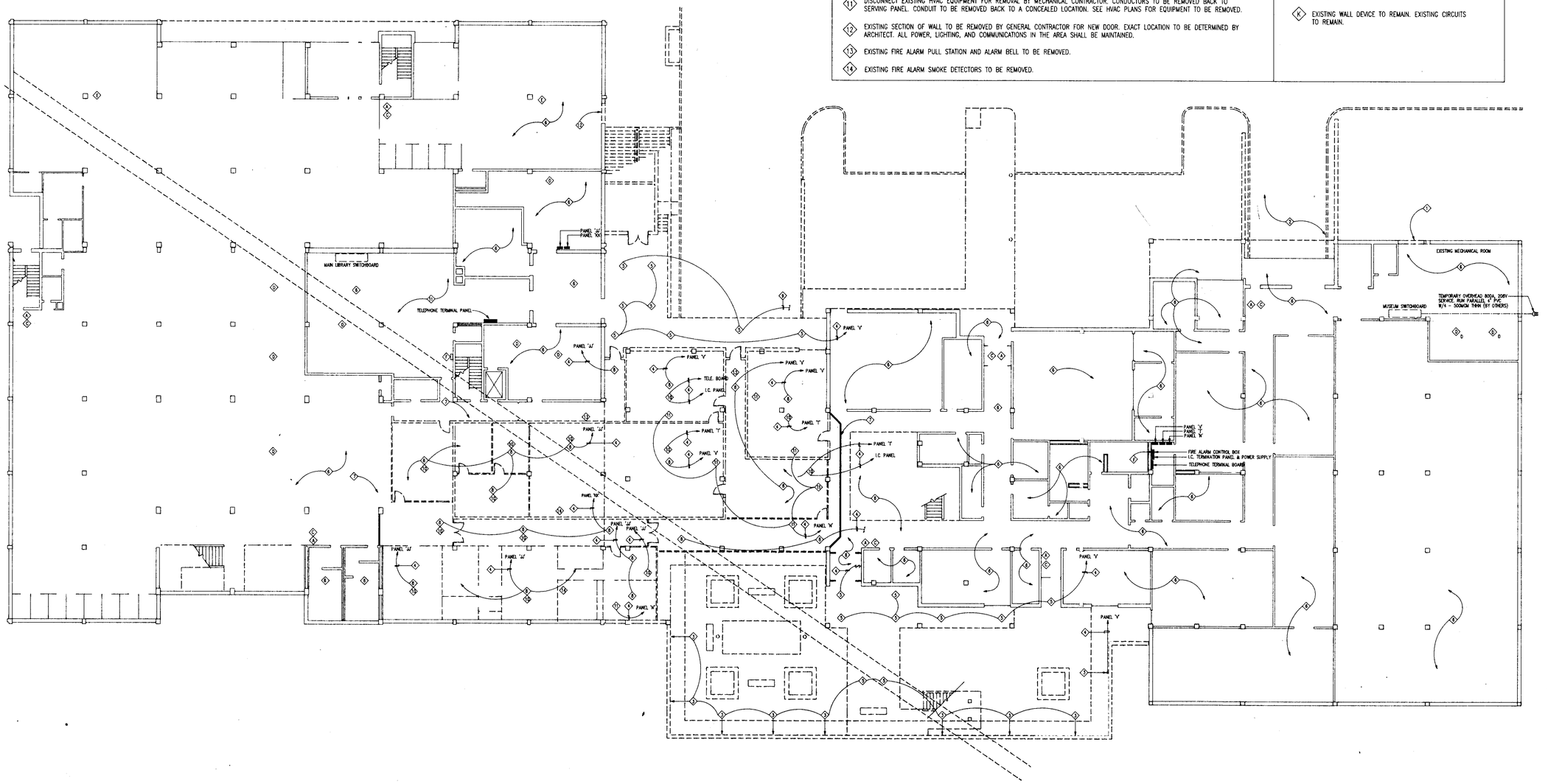
SHEET NO.

E.E. GOSSETT JR., ENGINEER, INC.

KEYED DEMOLITION NOTES

1. 8'-0" X 8'-0" SECTION OF EXISTING MECHANICAL ROOM WALL TO BE REMOVED. EXACT LOCATION DETERMINED BY ARCHITECT. ALL POWER AND LIGHTING IN EXISTING MECHANICAL ROOM TO REMAIN.
2. EXISTING RECEIVING DOCK AREA TO REMAIN IN OPERATION DURING CONSTRUCTION.
3. REMOVE EXISTING WALL MOUNTED LIGHTING FIXTURES FROM CONCRETE RETAINING WALLS.
4. REMOVE CONDUCTORS FROM FIXTURE OR DEVICE BACK TO SERVING PANEL. REMOVE CONDUIT BACK TO A CONCEALED LOCATION INSIDE EXISTING BUILDING.
5. REMOVE EXISTING LIGHT FIXTURES UNDER BRIDGE AND OVERHANG.
6. EXISTING LIGHT FIXTURES AND/OR DEVICES AND CIRCUITS TO REMAIN IN AREA INDICATED
7. DUSTPROOF, WEATHER TIGHT PARTITIONS INSTALLED BY GENERAL CONTRACTOR TO PROTECT EXISTING AREAS FROM CONSTRUCTION DUST AND DEBRIS.
8. REMOVE EXISTING LIGHT FIXTURES AND ASSOCIATED DEVICES IN AREA INDICATED.
9. EXISTING CIRCUIT FROM PANEL ALSO FEEDS FIXTURES OR DEVICES IN AREAS WHERE NO DEMOLITION OCCURS. REMOVE CONDUCTORS BACK TO EXISTING FIXTURE OR DEVICE THAT IS TO REMAIN. REMOVE CONDUIT BACK TO A CONCEALED LOCATION.
10. REMOVE EXISTING WALL MOUNTED DEVICES (RECEPTACLES, TELEPHONE, COMPUTER OUTLETS, ETC.) FROM AREA INDICATED.
11. DISCONNECT EXISTING HVAC EQUIPMENT FOR REMOVAL BY MECHANICAL CONTRACTOR. CONDUCTORS TO BE REMOVED BACK TO SERVING PANEL. CONDUIT TO BE REMOVED BACK TO A CONCEALED LOCATION. SEE HVAC PLANS FOR EQUIPMENT TO BE REMOVED.
12. EXISTING SECTION OF WALL TO BE REMOVED BY GENERAL CONTRACTOR FOR NEW DOOR. EXACT LOCATION TO BE DETERMINED BY ARCHITECT. ALL POWER, LIGHTING, AND COMMUNICATIONS IN THE AREA SHALL BE MAINTAINED.
13. EXISTING FIRE ALARM PULL STATION AND ALARM BELL TO BE REMOVED.
14. EXISTING FIRE ALARM SMOKE DETECTORS TO BE REMOVED.

- A. EXISTING FIRE ALARM PULL STATION TO BE REPLACED.
- B. NOT USED.
- C. EXISTING FIRE ALARM SOUND DEVICE TO BE REPLACED.
- D. EXISING FIRE ALARM SMOKE DETECTOR TO BE REPLACED.
- D0. EXISTING FIRE ALARM DUCT SMOKE DETECTOR TO BE REPLACED.
- E. EXISTING FIRE ALARM HEAT DETECTORS TO BE REPLACED.
- F. EXISTING FIRE ALARM PANEL TO BE REPLACED. PANEL BOX AND CONDUIT TO REMAIN IN PLACE.
- G. EXISTING HOME RUN CIRCUIT TO BE REUSED FOR NEW FIXTURES.
- H. EXISTING WALL & ASSOCIATED DEVICES TO BE REMOVED. NEW DEVICES WILL BE ADDED TO EXISTING CIRCUIT.
- J. EXISTING FLOOR DEVICE TO REMAIN. EXISTING CIRCUITS TO REMAIN.
- K. EXISTING WALL DEVICE TO REMAIN. EXISTING CIRCUITS TO REMAIN.



FIRST FLOOR DEMOLITION PLAN

SCALE : 1/16" = 1'-0"

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 8991 — RICHARD W. BRETT

Brackett Krennerich and Associates, P.A.

COMM. NO. 11980

E2

DATE: SEPT. 15, 1991

Architectural Concepts Planning

BRUNING 40-9020 221891

KEYED DEMOLITION NOTES

1. 8'-0" X 8'-0" SECTION OF EXISTING MECHANICAL ROOM WALL TO BE REMOVED. EXACT LOCATION DETERMINED BY ARCHITECT. ALL POWER AND LIGHTING IN EXISTING MECHANICAL ROOM TO REMAIN.
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D/D. EXISTING FIRE ALARM DUCT SMOKE DETECTOR TO BE REPLACED.
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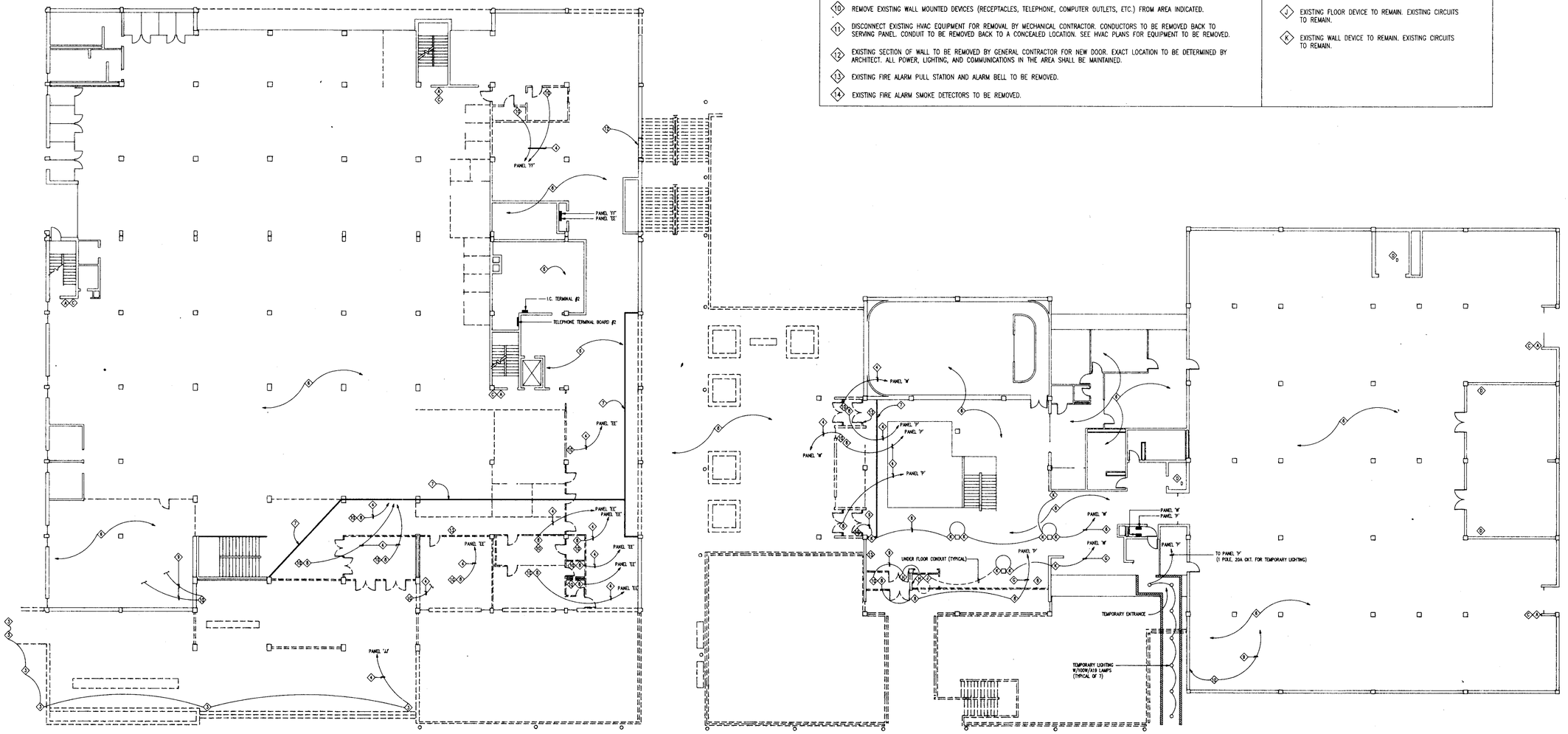
J. EXISTING FLOOR DEVICE TO REMAIN. EXISTING CIRCUITS TO REMAIN.
K. EXISTING WALL DEVICE TO REMAIN. EXISTING CIRCUITS TO REMAIN.



SECOND FLOOR DEMOLITION PLAN

SCALE : 1/16" = 1'-0"

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6891 RICHARD W. GERAD II

Brackett Krennerich and Associates P.A.

COMM. NO. 11990

E3

DATE: SEPT. 15, 1991

Architects Engineers Planners

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KEYED DEMOLITION NOTES

1. 8'-0" X 8'-0" SECTION OF EXISTING MECHANICAL ROOM WALL TO BE REMOVED. EXACT LOCATION DETERMINED BY ARCHITECT. ALL POWER AND LIGHTING IN EXISTING MECHANICAL ROOM TO REMAIN.
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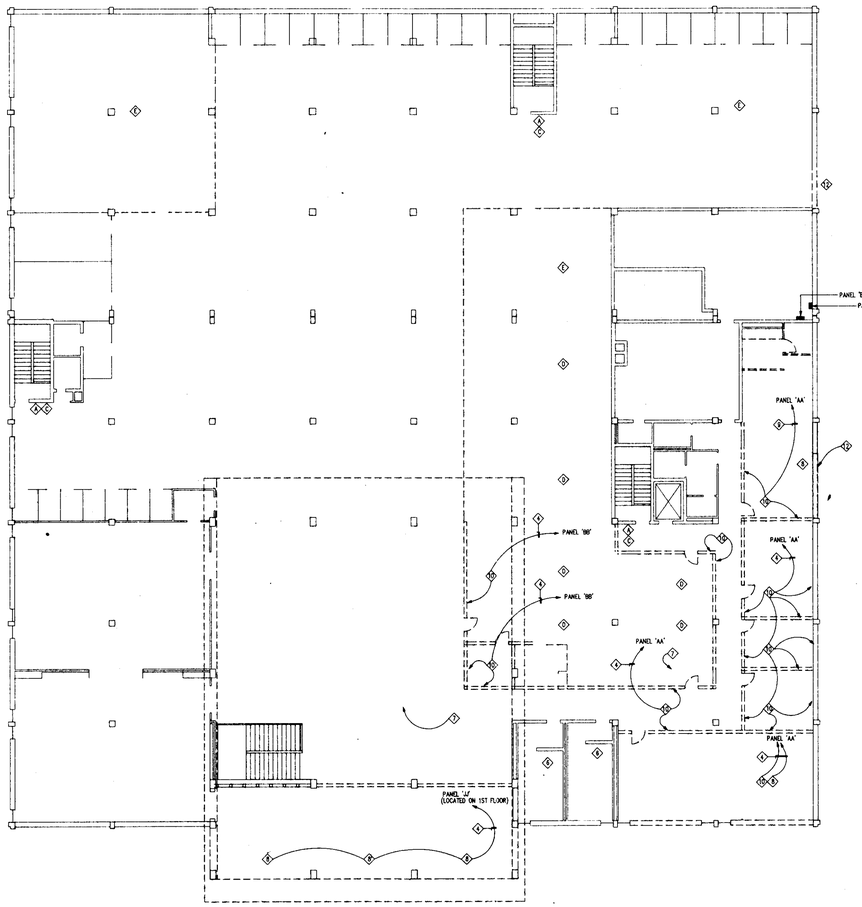

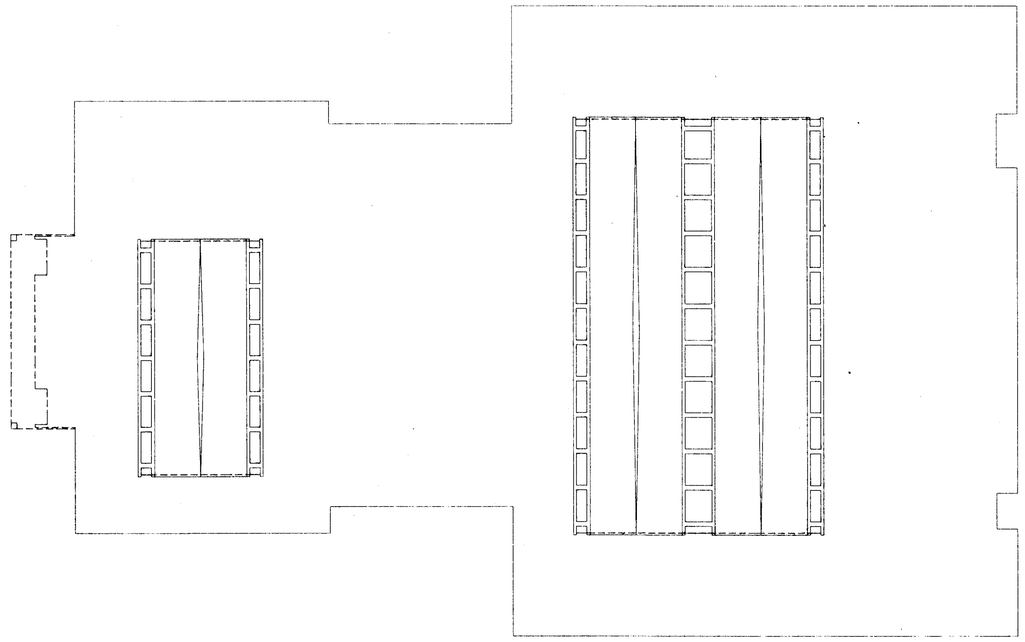

THIRD FLOOR DEMOLITION PLAN

SCALE : 1/16" = 1'-0"

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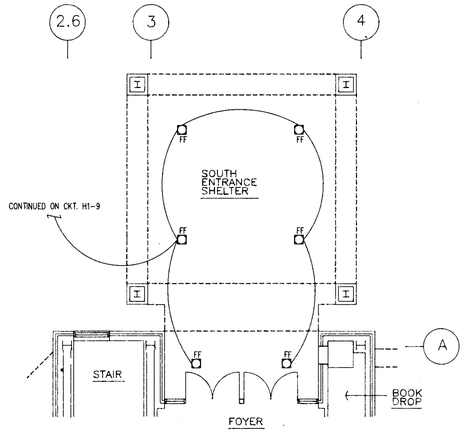
Brackett Krennerich and Associates, P.A.

Architects, Engineers, Planners

COMM. NO. 11990
E4
DATE: SEPT. 15, 1992

BRUNING 40-6020 331891

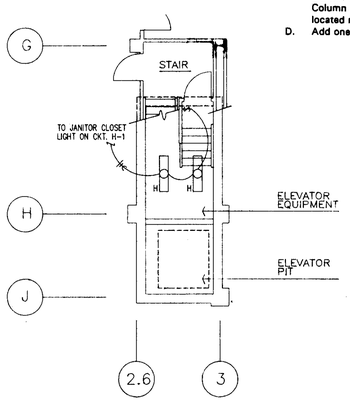


ENTRY SHELTER LIGHTING PLAN

SCALE : 1/8" = 1'-0"

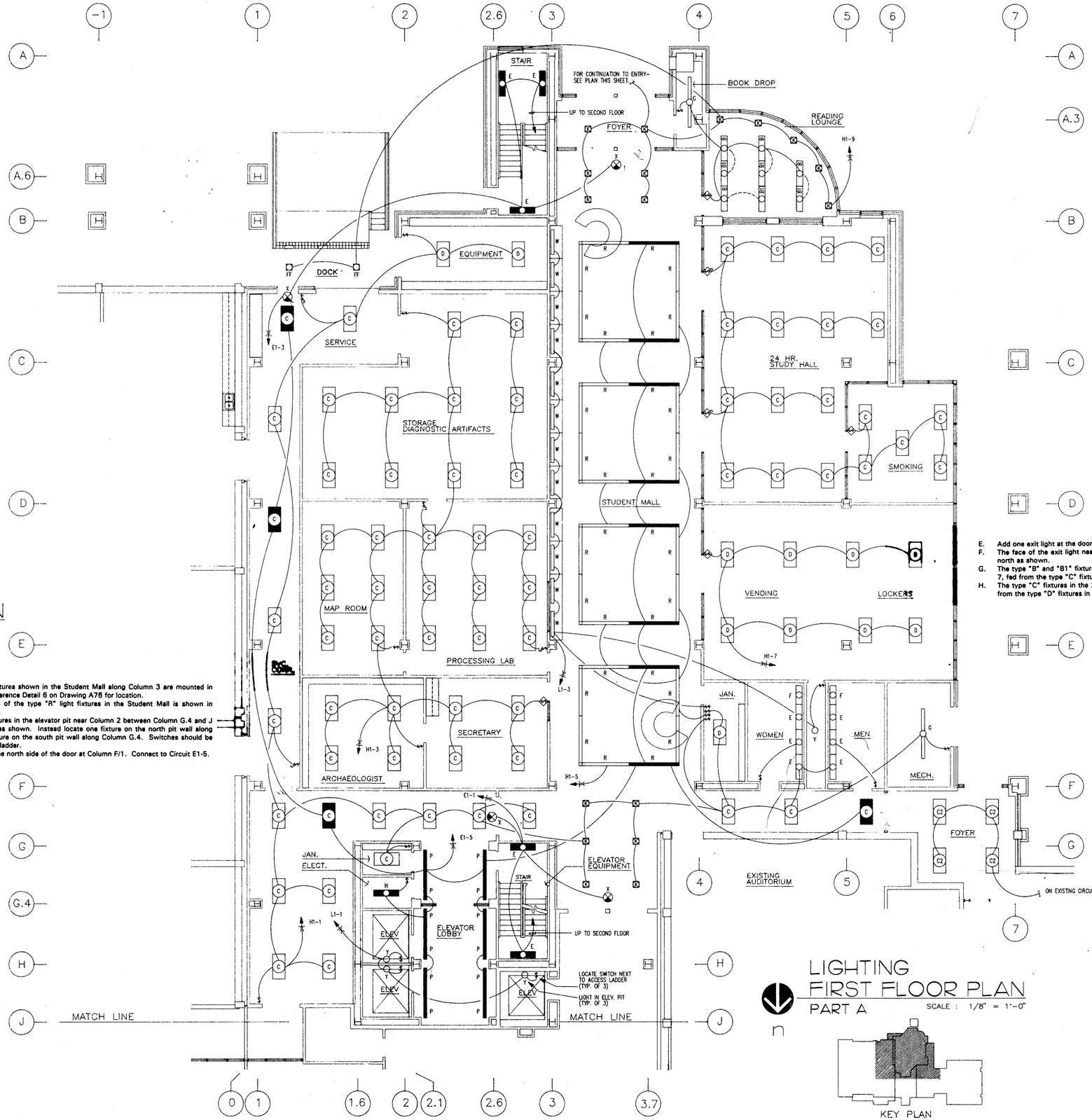
DRAWINGS, SHEET E-5

A. The type "W" light fixtures shown in the Student Mall along Column 3 are mounted in the display cases. Reference Detail 6 on Drawing A76 for location.
B. The mounting location of the type "R" light fixtures in the Student Mall is shown in Detail 2, Drawing A58.
C. The type "Y" light fixtures in the elevator pit near Column 2 between Column G.4 and J are not to be located as shown. Instead locate one fixture on the north pit wall along Column J and one fixture on the south pit wall along Column G.4. Switches should be located next to the pit ladder.
D. Add one exit light at the north side of the door at Column F/1. Connect to Circuit E1-5.



IST FLOOR ELEVATOR EQ. RM. LIGHTING PLAN

SCALE : 1/8" = 1'-0"



LIGHTING FIRST FLOOR PLAN

PART A

SCALE : 1/8" = 1'-0"

KEY PLAN

E. Add one exit light at the door at Column F/7. Connect to Circuit E1-5.
F. The face of the exit light near Column G.4/3.7 should be toward the south rather than north as shown.
G. The type "B" and "B1" fixtures in the Reading Lounge at Column B/4 are on Circuit H1-7, fed from the type "C" fixture in the Study Hall.
H. The type "C" fixtures in the 24 Hour Study Hall at Column D/4 are on Circuit H1-7, fed from the type "D" fixtures in the Vending Area.

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6891 RICHARD W. GERACI II

Brackett Krennerich and Associates P.A.

COMM. NO. 11990

E5

DATE: SEPT. 15, 1991

Architects Engineers Planners

MATCH LINE

MEDIA PRESENTATIONS

CONTROL

EDITING

MEDIA COLLECTIONS

STOR.

CORRIDOR

LIBRARIAN

STAFF

PUBLIC SERVICE ROOM

EXISTING WOMEN'S TOILET

EXISTING MEN'S TOILET

EQUIPMENT

GRAPHICS LAB

PREVIEW

PREVIEW

CORRIDOR

STOR.

ELEV.

ELEVATOR LOBBY

ELEV.

GIFT SHOP

BUILDING LOBBY

FOUCAULT PENDULUM

COURTYARD

EXISTING MUSEUM LOBBY

0 1 1.6 1.8 2.1 2.6 2.8 3 3.7

H J J.6 K L L.3 M

62. **DRAWINGS, SHEET E-6**
The type "W" fixtures shown in the Gift Shop along Column K are mounted in the display cases as shown in Detail 2 on Drawing A75.

LIGHTING FIRST FLOOR PLAN PART B

SCALE: 1/8" = 1'-0"

KEY PLAN

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6891 RICHARD W. GREEN II EXPIRES

Brackett Krennerich and Associates, Inc.

Architects Engineers Planners

COMM. NO. 11690

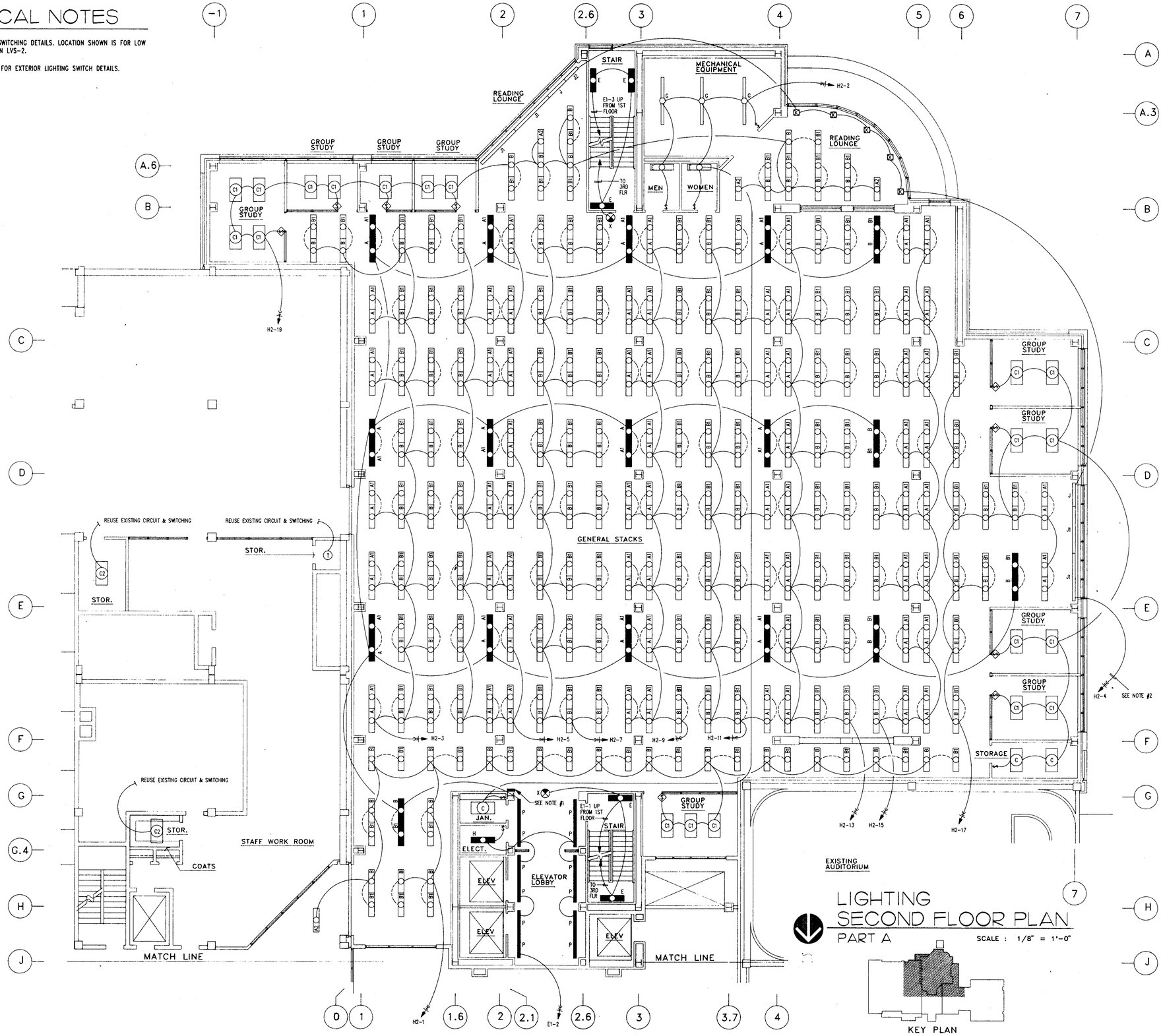
E6

DATE: SEPT. 15, 1991

ELECTRICAL NOTES

(1) SEE SHEET E-29 FOR SWITCHING DETAILS. LOCATION SHOWN IS FOR LOW VOLTAGE SWITCH STATION LVS-2.

(2) REFER TO SHEET E-29 FOR EXTERIOR LIGHTING SWITCH DETAILS.



LIGHTING
SECOND FLOOR PLAN
PART A

SCALE : 1/8" = 1'-0"

KEY PLAN

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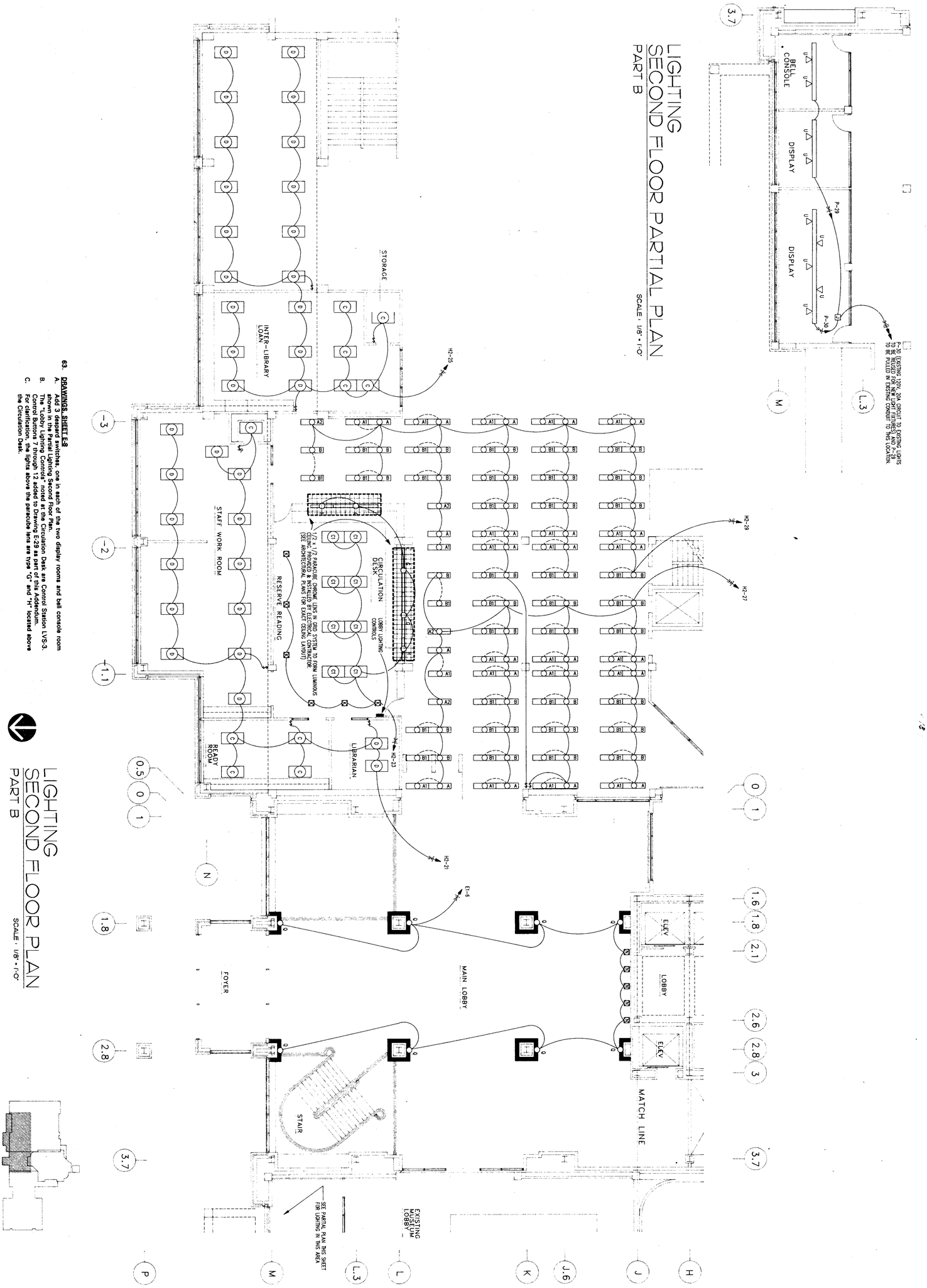
Brackett Krennerich and Associates P.A.

COMM. NO. 11990
E7
DATE: SEPT. 15, 1991

BRUNING 40-502C 321891



63. **DRAWINGS, SHEET E-8**
   A. Add 3 delayed switches, one in each of the two display rooms and bell console room shown in the Partial Lighting Second Floor Plan.
   B. The "Lobby Lighting Controls" noted at the Circulation Desk are Control Station LVS-3. Coordinate with Section 16721, Paragraph 2.03, Subparagraph A.2.
   C. For clarification, the lights above the pancake lens are type "G" and "H" located above the Circulation Desk.

CONTR. NO. 11900
E8
DATED: SEPT. 16, 1991

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ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6891 RICHARD W. GERACI II

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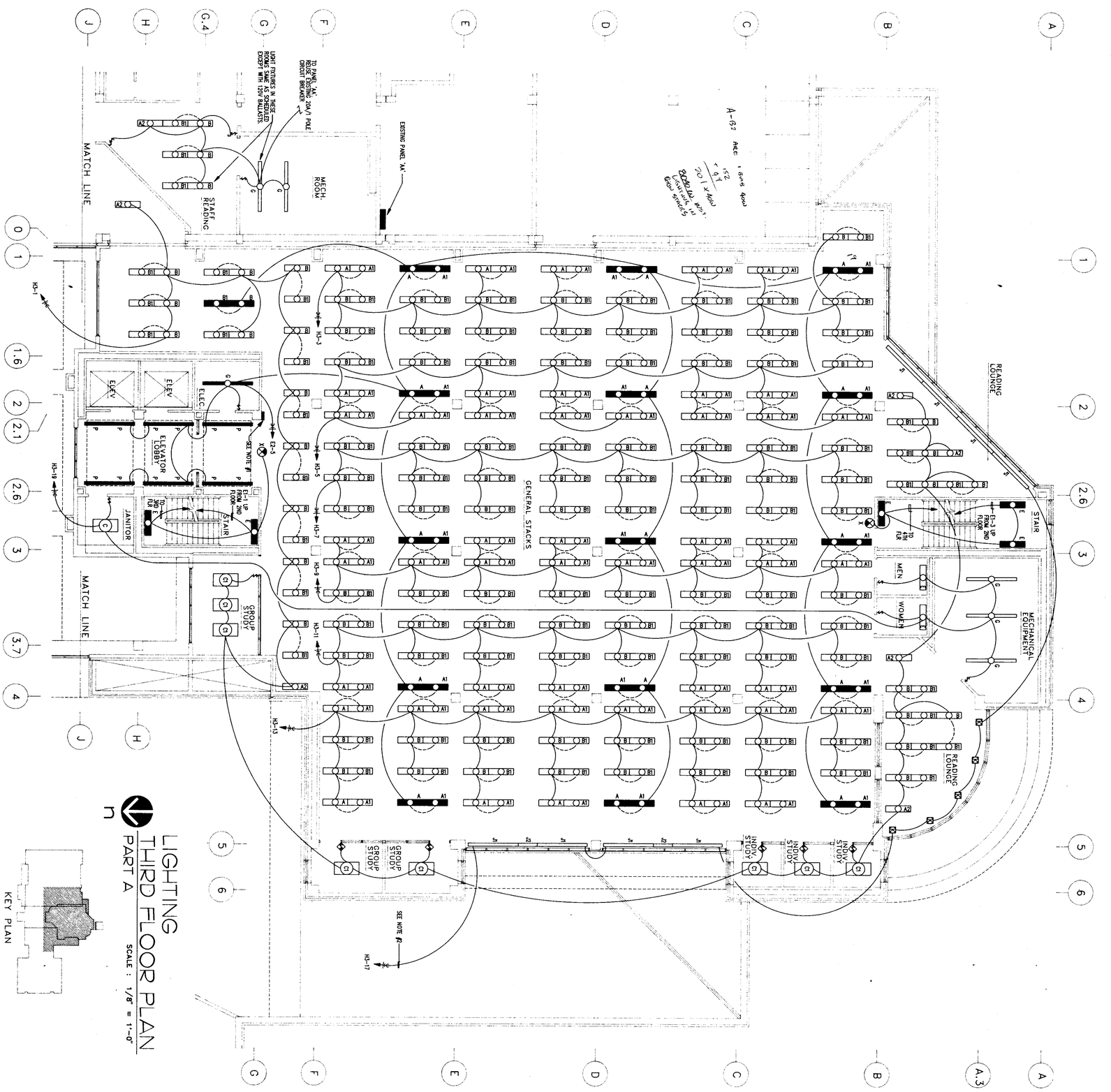
BRUNING, 40-9020 321891

ELECTRICAL NOTES:

(1) SEE SHEET E-29 FOR SWITCHING DETAILS. LOCATION SHOWN IS FOR LOW VOLTAGE SWITCH STATION LVS-3.

(2) REFER TO SHEET E-29 FOR EXTERIOR LIGHTING SWITCH DETAILS.



KEY PLAN

LIGHTING THIRD FLOOR PLAN PART A

SCALE : 1/8" = 1'-0"

CONS. NO. 11980
E9
DATE: SEPT. 15, 1991

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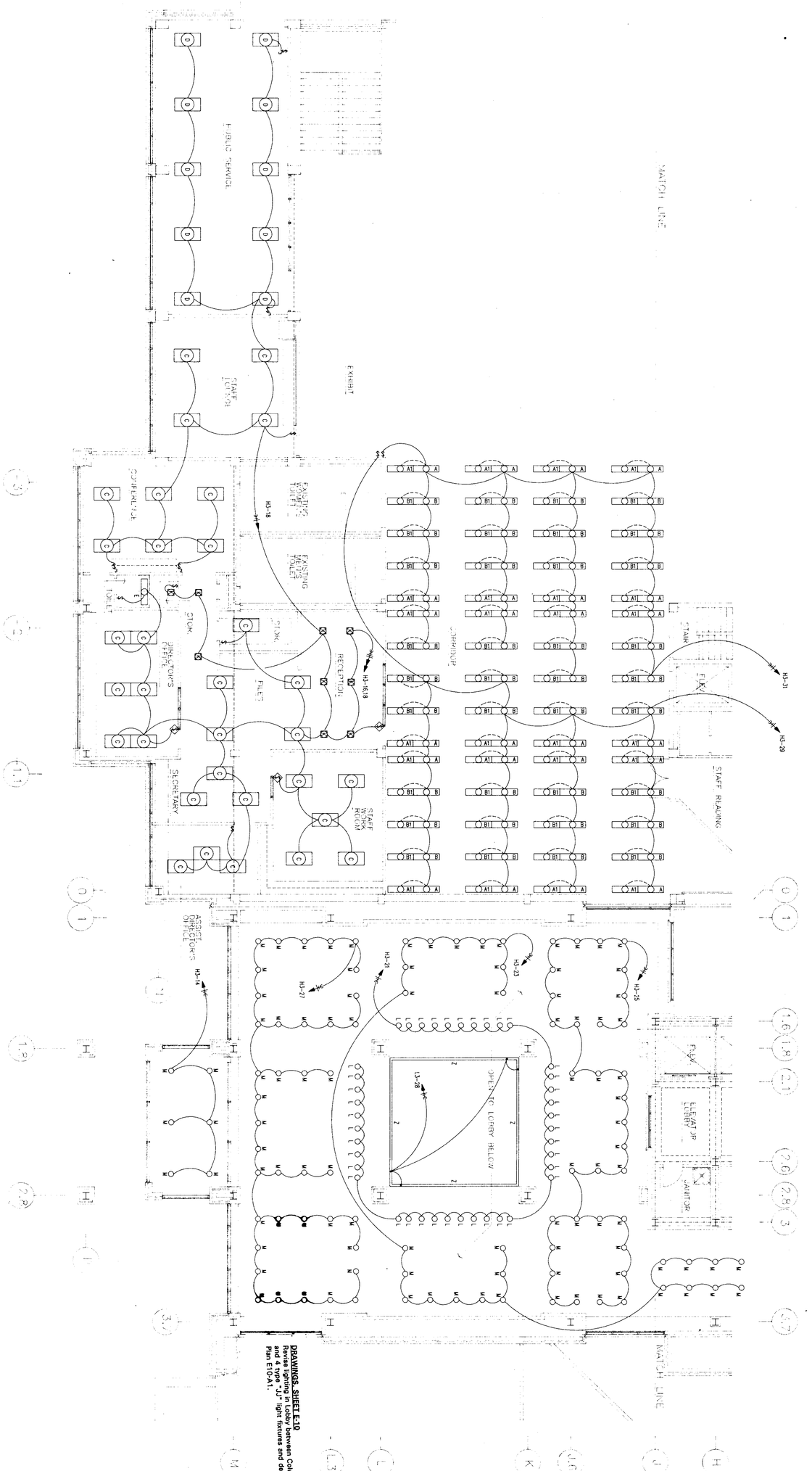

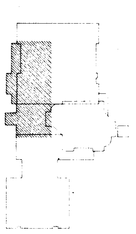

LIGHTING THIRD FLOOR PLAN PART B

SCALE : 1/8" = 1'-0"

DRAWINGS, SHEET E-10
Revise lighting in Lobby between Columns L/3.7 and 1 and M/3.7 and 1 adding 14 type "HH" and 4 type "JJ" light fixtures and deleting 28 type "H" fixtures as shown in attached Partial Plan E10-A1.

COMM. NO. 11990
E10
DATE: SEPT. 15, 1991

Brackett Krennerich and Associates p.a.

Architects Engineers Planners

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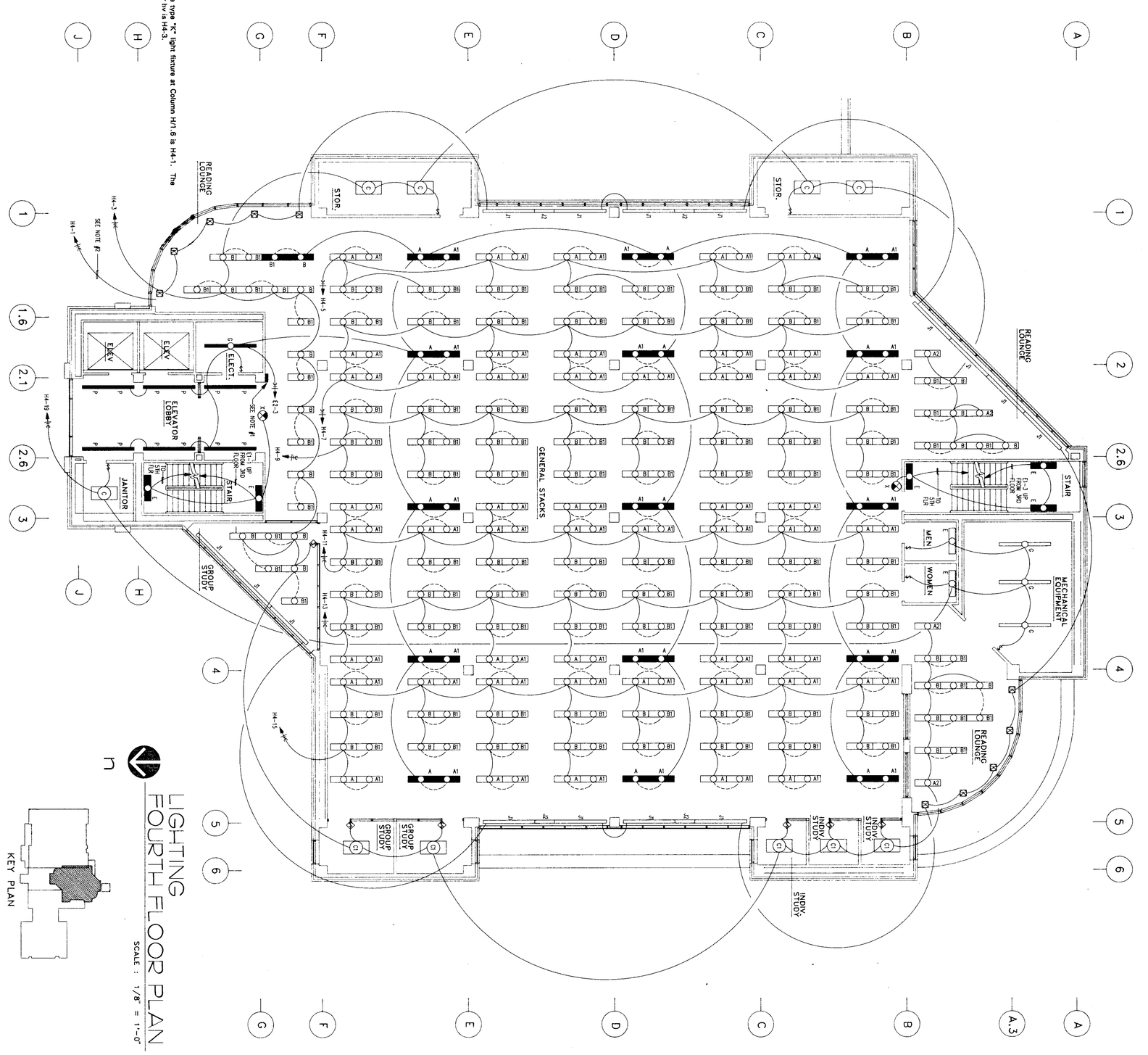
BRUNING, 40-5020 321891

ELECTRICAL NOTES:

(1) SEE SHEET E-29 FOR SWITCHING DETAILS. LOCATION SHOWN IS FOR LOW VOLTAGE SWITCH STATION LVS-4.

(2) REFER TO SHEET E-29 FOR EXTERIOR LIGHTING SWITCH DETAILS.

DRAWINGS, SHEET E-11
For clarification, the homerun from the type "K" light fixture at Column H/1.6 is H4-1. The homerun from the type "B" fixture near by is H4-3.



KEY PLAN

LIGHTING FOURTH FLOOR PLAN

SCALE : 1/8" = 1'-0"

CDBM. NO. 11990
E11
DATE: SEPT. 15, 1991

Brackett Krennerich and Associates p.a.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 6691
RICHARD W. GERACI, II

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ELECTRICAL NOTES

(1) PANEL H5 BECOMES H6 ON THE 6TH FLOOR AND H7 ON THE 7TH FLOOR. CIRCUIT NUMBERS REMAIN THE SAME ON EACH FLOOR.

(2) EMERGENCY LIGHTING CIRCUIT FOR 6TH FLOOR IS E3-3. EMERGENCY LIGHTING CIRCUIT FOR 7TH FLOOR IS E4-1.

(3) LOCATE PANEL E-4 ON THE 7TH FLOOR IN THE SAME RELATIVE LOCATION IN THE "ELECTRICAL ROOM" AS PANEL E3 IS ON THE 5TH FLOOR. THERE IS NO EMERGENCY LIGHTING PANEL ON THE 6TH FLOOR - 6TH FLOOR EMERGENCY LIGHTING IS FED FROM THE 5TH FLOOR.

(4) SEE SHEET E-29 FOR SWITCHING DETAILS. LOCATION SHOWN IS FOR LOW VOLTAGE SWITCH STATION LVS-5 (LVS-6 & LVS-7 SIMILAR).

(5) REFER TO SHEET E-29 FOR EXTERIOR LIGHTING SWITCH DETAILS.

FIXTURE SCHEDULE

TYPE	MANUFACTURER	LAMPS	VOLTS	NOTES
A	WILLIAMS EPG-E120-RWKSH12.125-EB-M	1-F40/CW	277	1,2
A1	WILLIAMS EPG-E120-RWKSH12.125-S	1-F40/CW	277	1
A2	WILLIAMS EPG-E120-RWKSH12.125-EB	1-F40/CW	277	1,3
B	WILLIAMS EPG-D120-RWKSH12.125-EB-M	1-F40/CW	277	1,2
B1	WILLIAMS EPG-D120-RWKSH12.125-S	1-F40/CW	277	1
C	WILLIAMS EPG-E223-RWKSH12.125-EB	3-F40/CW	277	4
C1	WILLIAMS EPG-E223-RWKSH12.125-EB	3-F40/CW	277	4,5
C2	WILLIAMS EPG-E223-RWKSH12.125-EB	3-F40/CW	120	4
D	WILLIAMS EPG-E224-RWKSH12.125-EB	4-F40/CW	277	2
E	WILLIAMS 2922-KA-EB	2-F40/CW	277	2
F	WILLIAMS 2912-KA-EB	2-F30/CW	277	2
G	WILLIAMS 7625-EB	4-F40/CW	277	2
H	WILLIAMS 7622-EB	2-F40/CW	277	2
J	LINEAR P4440-EB	1-F40/SXL	277	3,6
J1	LINEAR P4442-EB	2-F40/SXL	277	2,6
J2	LINEAR P4441-EB	1-F30/SXL	277	3,6
K	KURT VERSEN P672-Y	1-26WPL	277	
L	KURT VERSEN K7430	75MR16-WFL	277	
M	KURT VERSEN K7301	75MR16-NSP	277	
N	KURT VERSEN K7420	75MR16-MFL	277	
P	ALS 183-4	2-F40/SXL	277	2,7,9
P1	ALS 183-3	2-F30/SXL	277	2,7,9
Q	ALS 183-MC-PL	2-F30/SXL	277	2,7,8,9
R	ALS 183-IMC	4-F40/SXL	277	2,7,9
S	KURT VERSEN K7420	50MR16-NSP	277	
T	KIRLIN 96918-SM	2-13WPL	120	
U	NL ACCENTRAK 1, T3140	1-150RFL	120	
V	HUBBELL VWX-152	1-150A21	120	11
W	WILLIAMS SM7520	1-F40/CW	120	
X	GILBERT EX*-AC-W/G-MC	BY MFG	277	
Y	P&S 44/G	1-100A19	120	
Z	15MM WHITE NEON	BY MFG	277	
AA	WF HARRIS 300-CP-HB-70HPF	1-70WHPS	277	12
BB	QUALITY LIGHTING GFL-3X3-MH-1000	1000WMH	480	13
CC	QUALITY LIGHTING GFL-3X3-MH-1000	1000WMH	480	
DD	QUALITY LIGHTING FL-10-175MH	175WMH	480	
EE	KIM LLF 10	1-70WHPS	277	
FF	KURT VERSEN V574-70277-UN	1-70WHPS	277	
GG	POLE LIGHT BY OWNER	1-100WHPS	277	

DRAWINGS SHEET E-12

A. The type "A" and "A1" light fixtures near Column F/5 should be on Circuit H5-15 fed from the nearby type "B" fixture.

B. Refer to the Fixture Schedule:

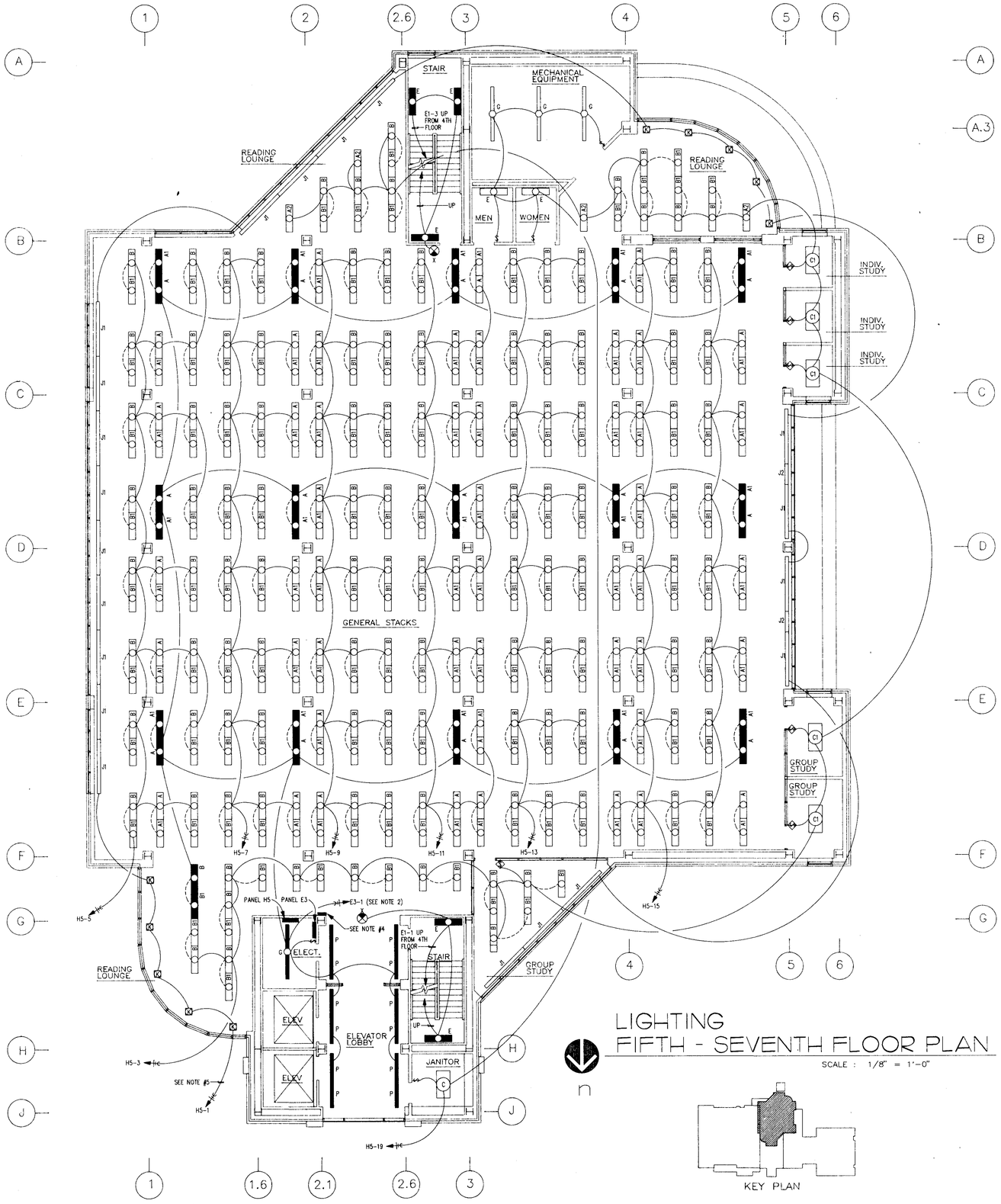
1) Type "J" should be Linear P4440-EB.
2) Type "J1" should be Linear P4442-EB.
3) Type "J2" should be Linear P4441-EB.
4) Type "L" should be Kurt Versen K7430-UN with 75MR16-EYC lamp.
5) Type "M" lamp should be 75MR16-EYF.
6) Add type "HH" Kurt Versen C7302 with 1-Q150 PAR38SP lamp at 120 volts.
7) Add type "JJ" Kurt Versen C7314-Z with 1-Q500 PAR56NSP lamp at 120 volts.

C. To the Lighting Notes add Note 13 as follows:

13. PROVIDE 25' TAPERED ROUND ALUMINUM POLE WITH 5' DOUBLE BRACKET ARM.

LIGHTING NOTES

1. WITH 2GR14BE GRID RISER
2. WITH ADVANCE VEL-2S40-TP BALLAST(S)
3. WITH ADVANCE VEL-1S40-TP BALLAST
4. WITH ADVANCE VEL-3S40-TP BALLAST
5. WITH 2GR24BE GRID RISER
6. FACTORY MODIFY HOUSING TO FIT GRID TYPE CEILING
7. PROVIDE WITH ACRYLIC PRISMATIC LENS IN BOTTOM
8. PROVIDE WITH 2-18WPL ON EACH SHORT SIDE FOR HALF COLUMNS, MITERED CORNERS
9. CUSTOM COLOR BY ARCHITECT
10. PROVIDE WITH INSIDE MITERED CORNERS
11. WITH VCG-15 GUARD
12. WITH TAMPERPROOF SCREWS



LIGHTING
FIFTH - SEVENTH FLOOR PLAN

SCALE : 1/8" = 1'-0"

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Brackett Krennerich & Associates, Inc.

Architecture Engineering Planning

COMM. NO. 11990
E12
DATE: SEPT. 15, 1991

BRUNING 45-5020 321891

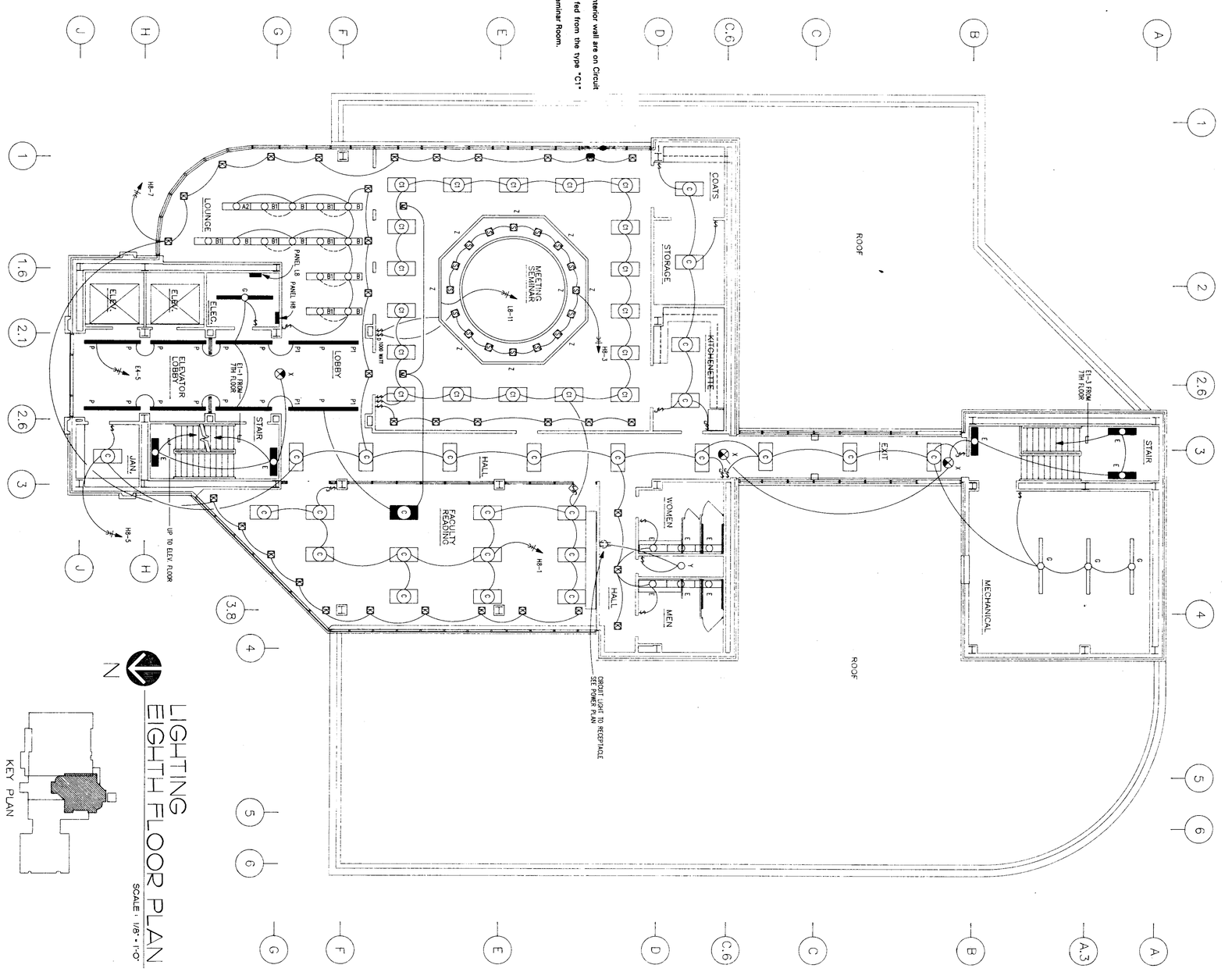
BRUNING, 40-5020 321891

DRAWINGS, SHEET E.13

A. In the Meeting Seminar Room, the type "K" fixtures along the interior wall are on Circuit HB-1, fed from the type "C1" fixtures.

B. The type "C" fixtures in the Kitchenette are on Circuit HB-1, fed from the type "C1" fixtures.

C. Delete one switch from the type "C1" fixtures in the Meeting Seminar Room.



N

LIGHTING EIGHTH FLOOR PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN

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SECTION A-A

SCALE: 3/8" = 1'-0"

B. The two junction boxes and receptacles in the elevator pit near Column J/2 should be relocated, one junction box and receptacle on the north wall and one junction box and receptacle on the south wall of the pit.
C. The three receptacles in the elevator pits should be equipped with weatherproof covers.
D. The receptacle for the EDF (electrical drinking fountain) should be located in the Student Mall near Column F/4 rather than in the corridor between the toilets. Coordinate the location with Drawing A14.
E. The Fire Alarm Panel (FAP) should be located on the east wall of the Janitor's Closet near Column F/4 rather than the west wall as shown.
F. Section A-A does not show the required bus plug and contactor C-2. Refer to plan view detail for location of these items.

IST FLOOR ELECTRICAL ROOM

SCALE: 3/8" = 1'-0"

DRAWINGS, SHEET E-14

A. The three junction boxes in the elevator pits should be noted as for sump pumps.

IST FLOOR ELEVATOR EQ. ROOM POWER PLAN

SCALE: 1/8" = 1'-0"

POWER/SYSTEMS FIRST FLOOR PLAN

PART A

SCALE : 1/8" = 1'-0"

KEY PLAN

Area in blue will be covered by mechanical contractor.

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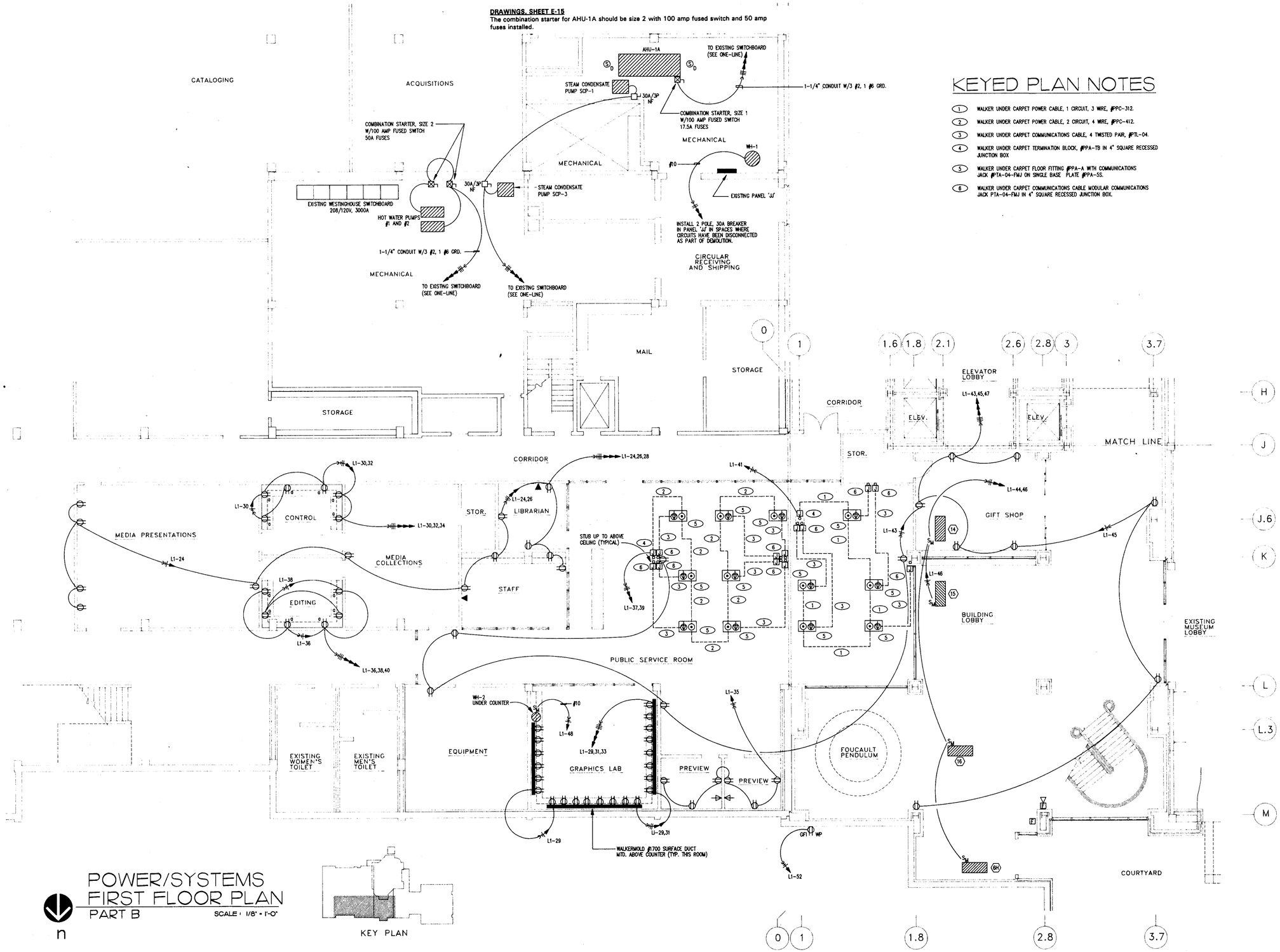
COMM. NO. 11990

E14

DATE: SEPT. 15, 1991

DRAWINGS, SHEET E-15
The combination starter for AHU-1A should be size 2 with 100 amp fused switch and 50 amp fuses installed.



POWER/SYSTEMS FIRST FLOOR PLAN
PART B

SCALE: 1/8" = 1'-0"

KEYED PLAN NOTES

1. WALKER UNDER CARPET POWER CABLE, 1 CIRCUIT, 3 WIRE, #PPC-312.
2. WALKER UNDER CARPET POWER CABLE, 2 CIRCUIT, 4 WIRE, #PPC-412.
3. WALKER UNDER CARPET COMMUNICATIONS CABLE, 4 TWISTED PAIR, #PTL-04.
4. WALKER UNDER CARPET TERMINATION BLOCK, #PPA-TB IN 4" SQUARE RECESSED JUNCTION BOX
5. WALKER UNDER CARPET FLOOR FITTING #PPA-A WITH COMMUNICATIONS JACK #PTA-04-FMJ ON SINGLE BASE PLATE #PPA-5S.
6. WALKER UNDER CARPET COMMUNICATIONS CABLE MODULAR COMMUNICATIONS JACK PTA-04-FMJ IN 4" SQUARE RECESSED JUNCTION BOX.

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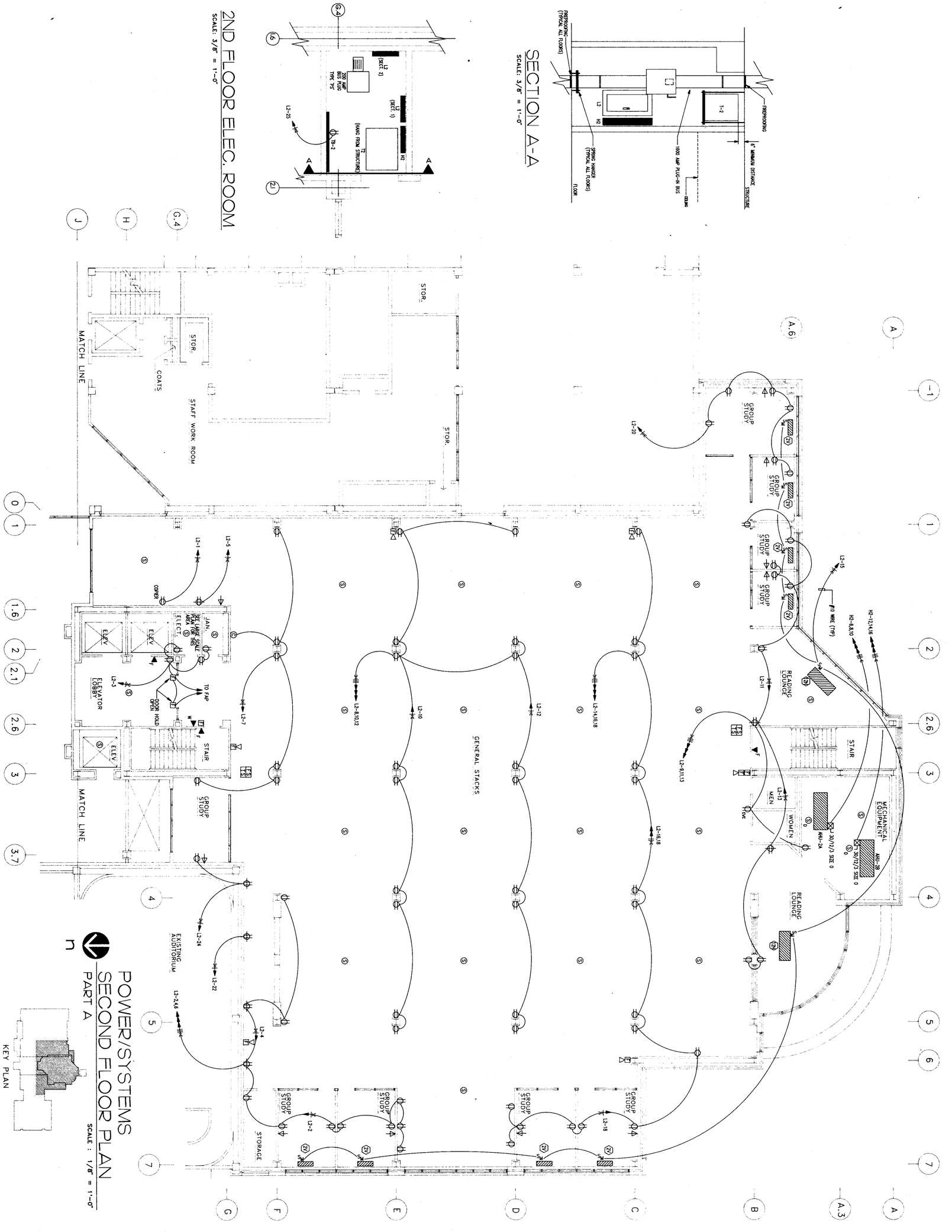
BRUNING, 40-6020 321891



COMM. NO. 11990
E16
DATE: SEPT. 16, 1991

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POWER/SYSTEMS SECOND FLOOR PARTIAL PLAN

PART B SCALE: 1/8" = 1'-0"

DRAWINGS, SHEET E-17

A. For clarification, all column mounted receptacles along Column Line L shown on the Power/Systems Second Floor Partial Plan are existing.

B. The receptacle near Column M/-3 in the Inter-Library Loan Room should be mounted above the counter.

POWER/SYSTEMS SECOND FLOOR PLAN

PART B SCALE: 1/8" = 1'-0"

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COMM. NO. 11990

E17

DATE: SEPT. 15, 1991

BRUNING A0-5020 121991

3RD FLOOR ELEC. ROOM

SCALE: 3/8" = 1'-0"

POWER/SYSTEMS THIRD FLOOR PLAN

PART A SCALE : 1/8" = 1'-0"

KEY PLAN

DRAWINGS, SHEET E-18

A. The homerun indication (arrowhead and marks for line, neutral and ground) should be added to the circuit near the door to the Women's Toilet near Column B/3. The Circuit Identifier L3-14 is noted at the homerun location.

B. Existing Panel "AA" is not shown on the plan although it is referenced. The existing panel is located on the south side of the wall between Columns E/1 and F/1 south of the Mechanical Room.

A.3

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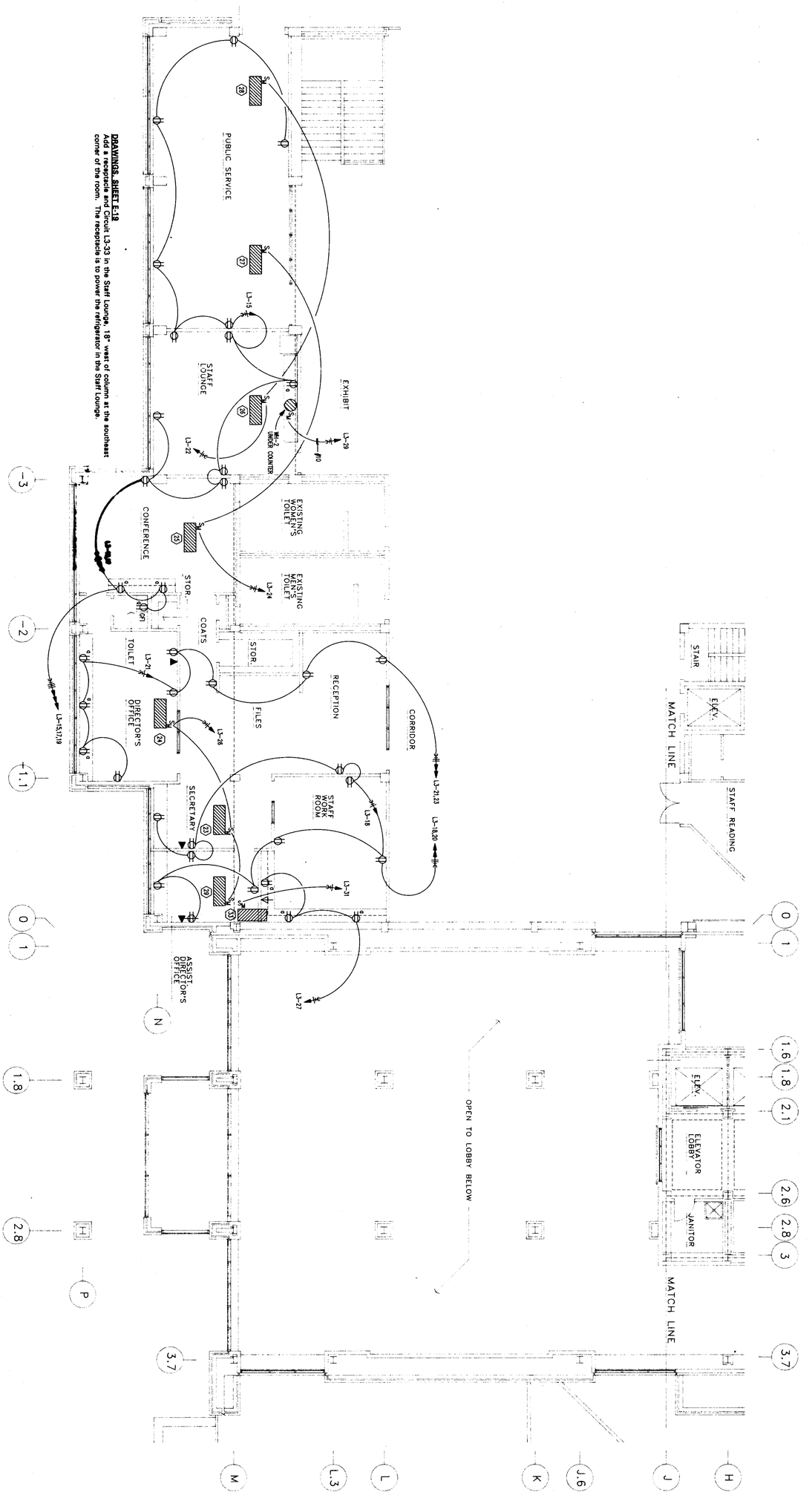
E18

DATE: SEPT. 15, 1991

BRUNING, 49-9010 221891

BRUNING. 40-5020 331891

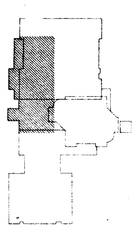
DRAWINGS, SHEET E-19
Add a receptacle and Circuit L3-33 in the Staff Lounge, 18" west of column at the southeast corner of the room. The receptacle is to power the refrigerator in the Staff Lounge.



POWER\SYSTEMS
THIRD FLOOR PLAN
PART B

SCALE : 1/8" = 1'-0"

KEY PLAN



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COMM. NO. 11980
E19
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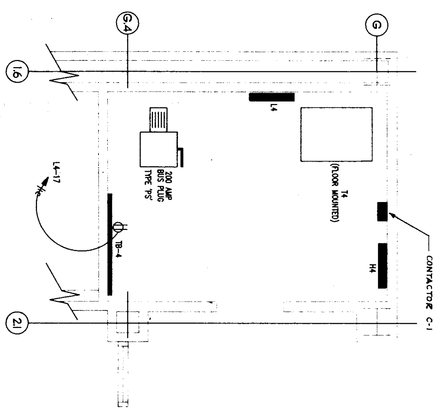
BRUMMO, 40-9020 321891

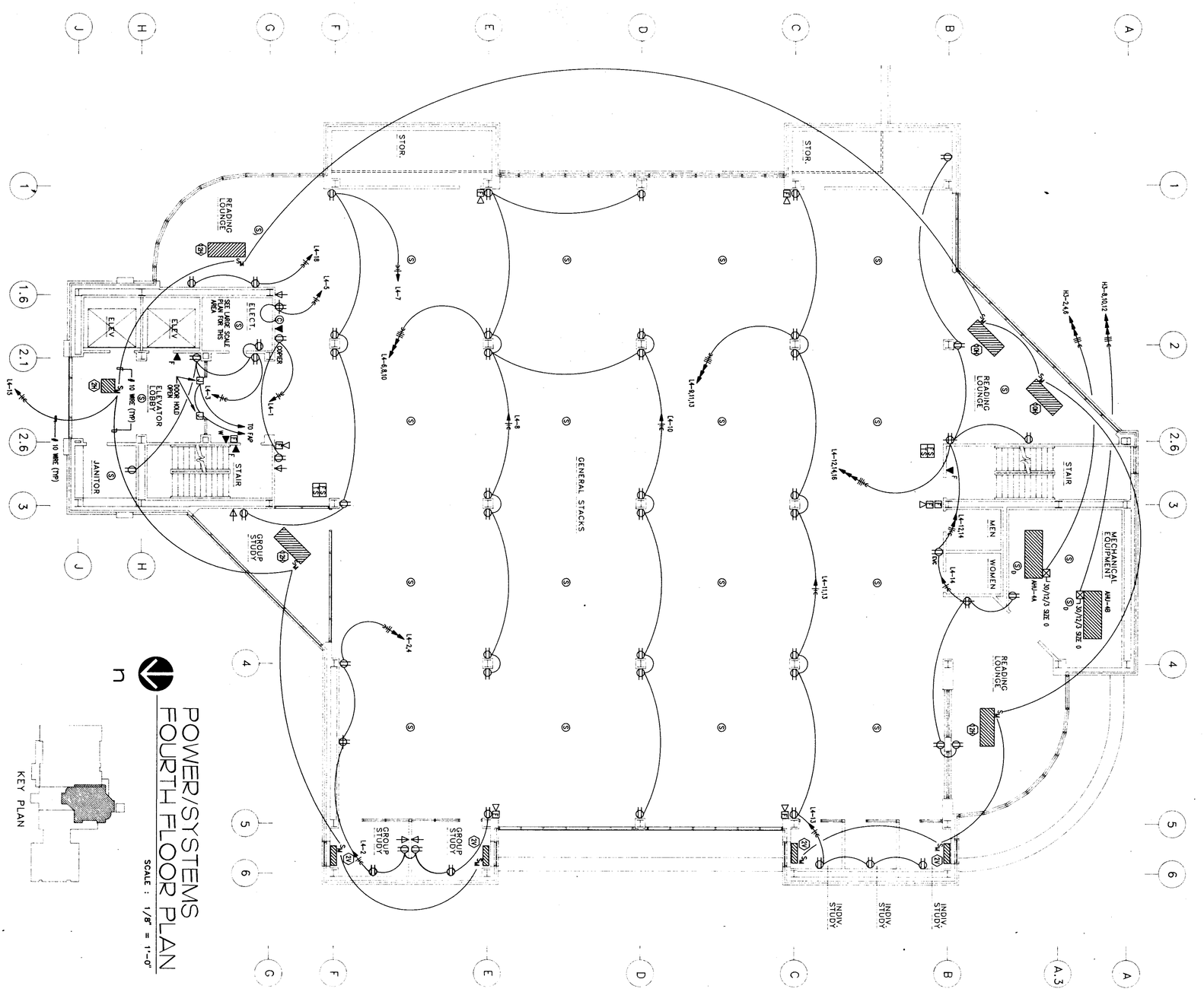
4TH FLOOR ELEC. ROOM

SCALE: 3/8" = 1'-0"



POWER/SYSTEMS FOURTH FLOOR PLAN

SCALE : 1/8" = 1'-0"



KEY PLAN

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DRAWINGS, SHEET E-21
The telephone board TB7 shown in Section A-A 7th Floor should be 8 feet high rather than 3 feet as shown.

SECTION A-A 7TH FLOOR

SCALE: 3/8" = 1'-0"

5TH - 7TH FLOOR ELEC. ROOMS

SCALE: 3/8" = 1'-0"

POWER/SYSTEMS FIFTH - SEVENTH FLOOR PLAN

SCALE : 1/8" = 1'-0"

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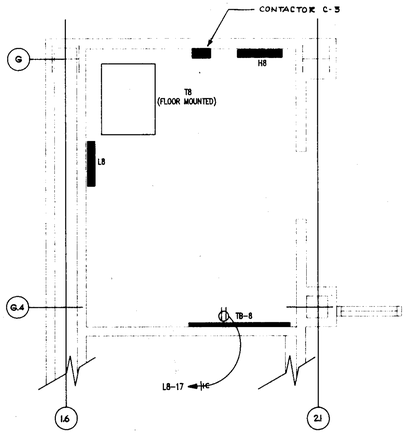
COMM. NO. 11990
E21
DATE: SEPT. 16, 1991

BRUNING 40-6029 331891

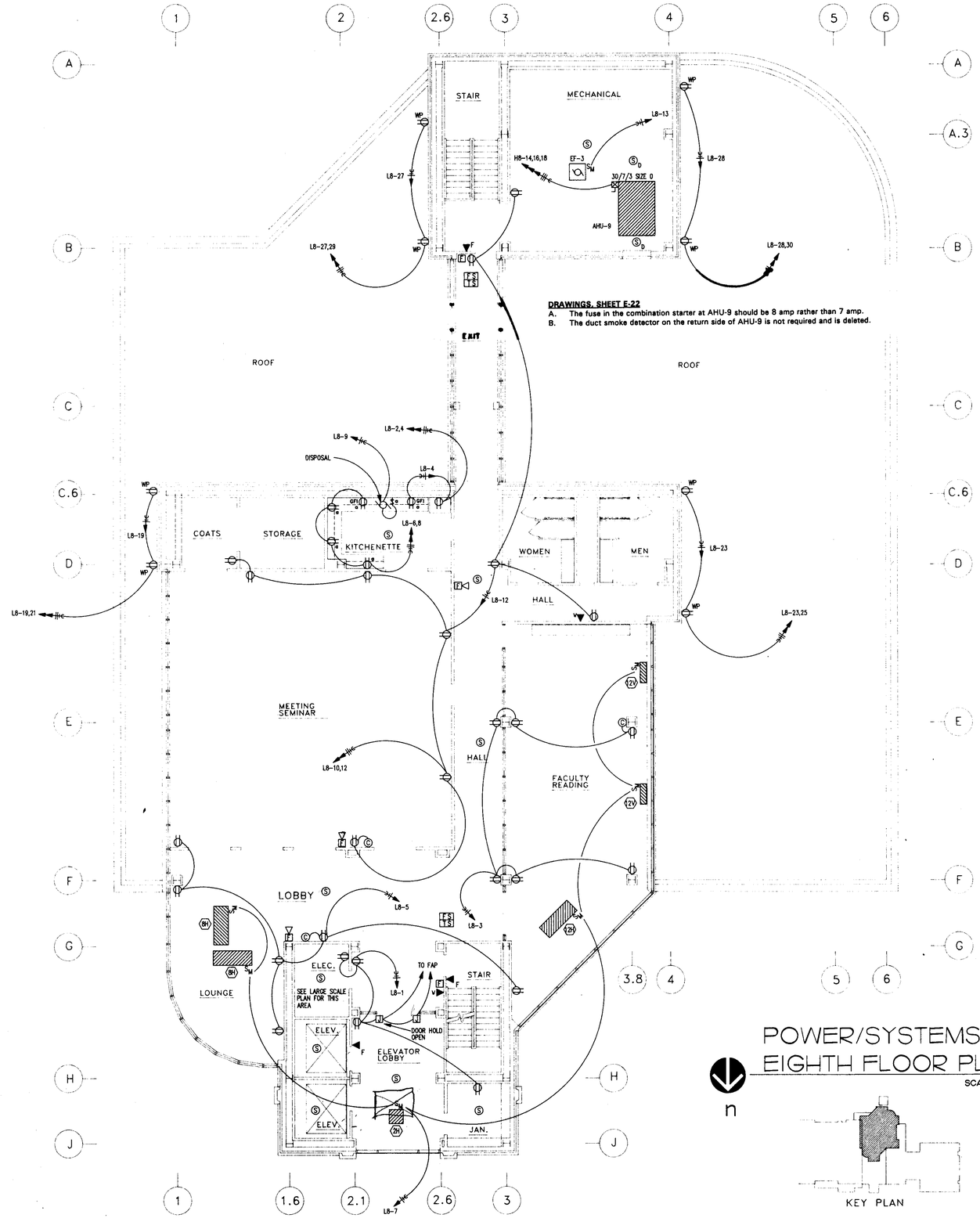
ELECTRICAL LEGEND

- 2X4 LAY-IN FIXTURE, SHADING INDICATES EMERGENCY POWERED
- 1X4 LAY-IN FIXTURE, SHADING INDICATES EMERGENCY POWERED
- RECESSED FLUORESCENT CAN FIXTURE
- INCANDESCENT OR HID FIXTURE
- SURFACE FIXTURE OR STRIP, SHADING INDICATES EMERGENCY POWERED
- EXIT LIGHT, SHADING INDICATES FACES
- SINGLE POLE SWITCH
- THREE-WAY SWITCH
- DESPARD SWITCH
- SWITCH W/PILOT LIGHT
- HOMERUN : HOT, NEUTRAL, GROUND, SWITCHLEG
- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- FLOOR OUTLET – UNDER CARPET WIRING
- FLOOR DATA/PHONE OUTLET – UNDER CARPET WIRING
- JUNCTION BOX
- MOTOR OUTLET
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION MOTOR STARTER/FUSED SWITCH
- MOTOR STARTER
- DATA OUTLET
- PHONE OUTLET
- WALL PHONE OUTLET AT 44" AFF
- FIREMAN'S PHONE JACK
- SMOKE DETECTOR
- HEAT DETECTOR
- DUCT SMOKE DETECTOR
- FIRE ALARM PULL STATION
- FIRE ALARM SIGNAL DEVICE/PAGING
- FIRE ALARM TAMPER/FLOW SWITCHES
- INDICATES ABOVE COUNTER
- GFI INDICATES GROUND FAULT PROTECTED
- WALL CLOCK – OUTLET AT 84" A.F.F.



8TH FLOOR ELECTRICAL ROOM

SCALE: 3/8" = 1'-0"



DRAWINGS, SHEET E-22

A. The fuse in the combination starter at AHU-9 should be 8 amp rather than 7 amp.
B. The duct smoke detector on the return side of AHU-9 is not required and is deleted.

POWER/SYSTEMS EIGHTH FLOOR PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN

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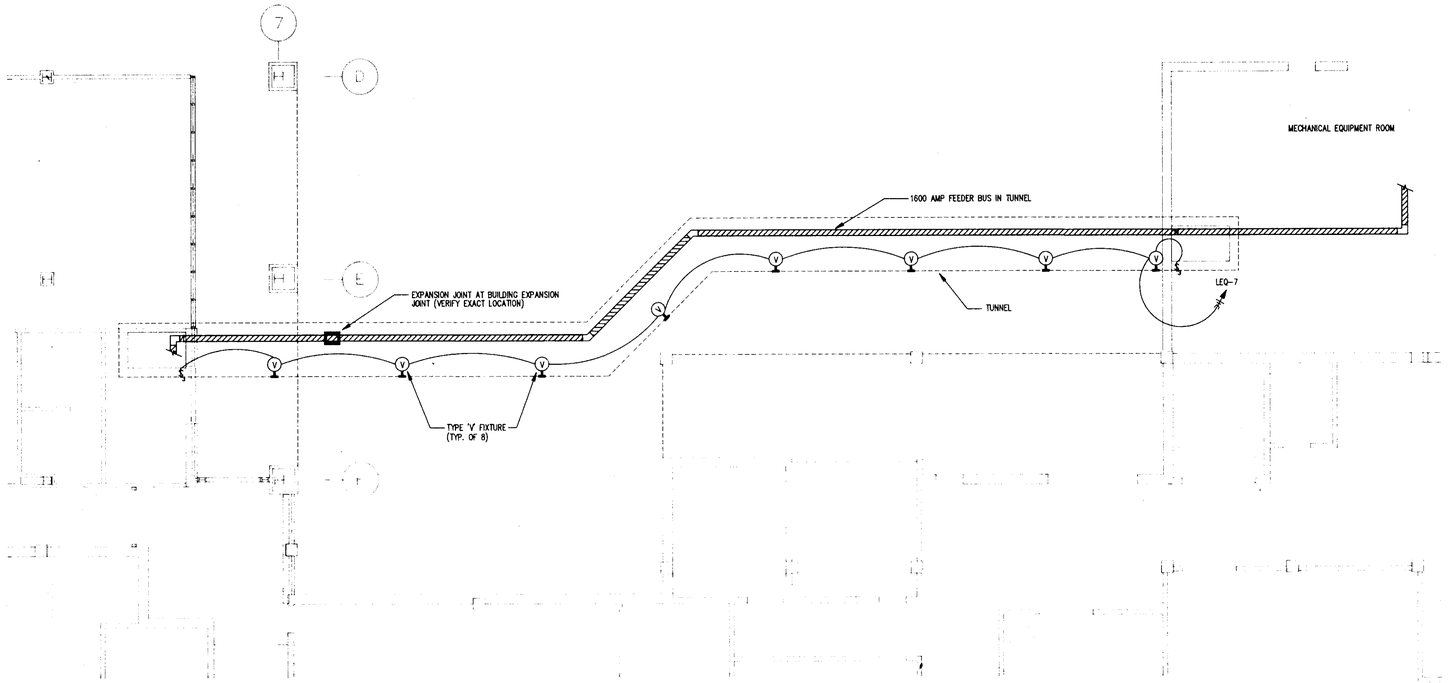
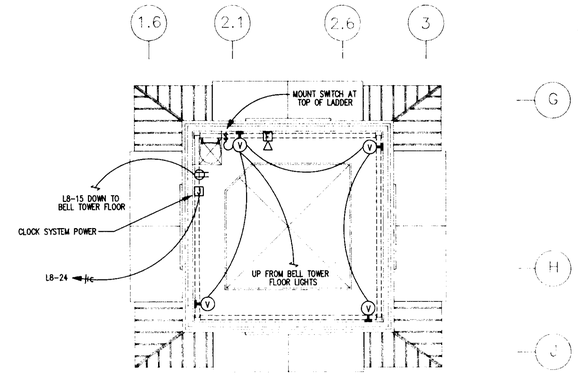
E22

DATE: SEPT. 15, 1991



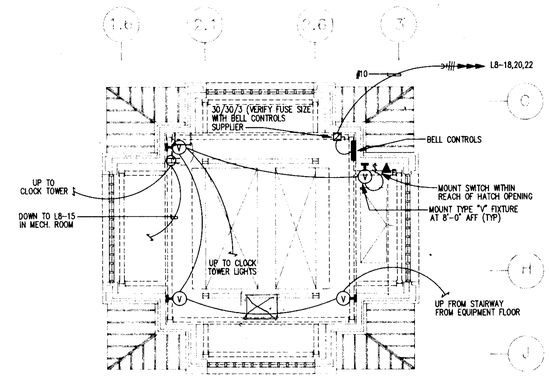
PARTIAL PLAN - LIGHTING & POWER

SCALE : 1/8" = 1'-0"



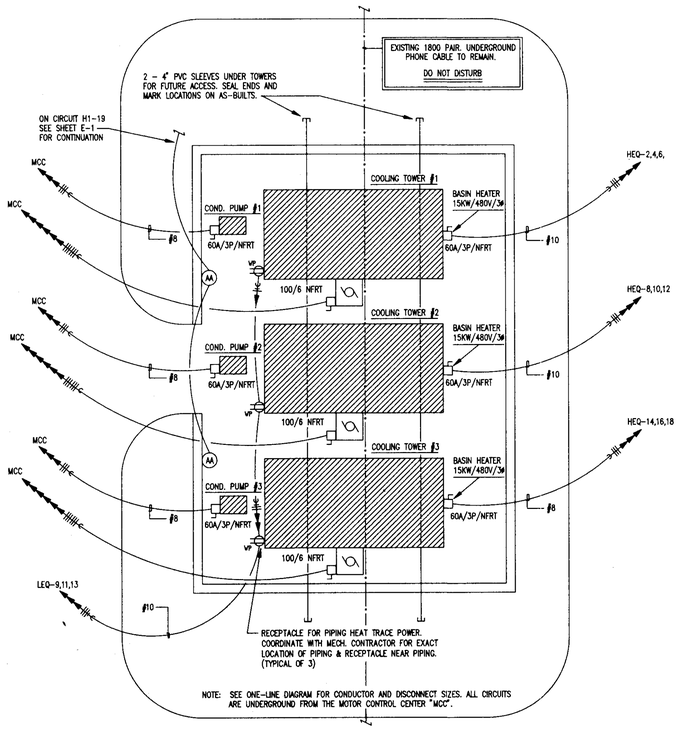
CLOCK TOWER LIGHTING & POWER

SCALE : 1/8" = 1'-0"



BELL TOWER LIGHTING & POWER

SCALE : 1/8" = 1'-0"



COOLING TOWER POWER PLAN

N.T.S.

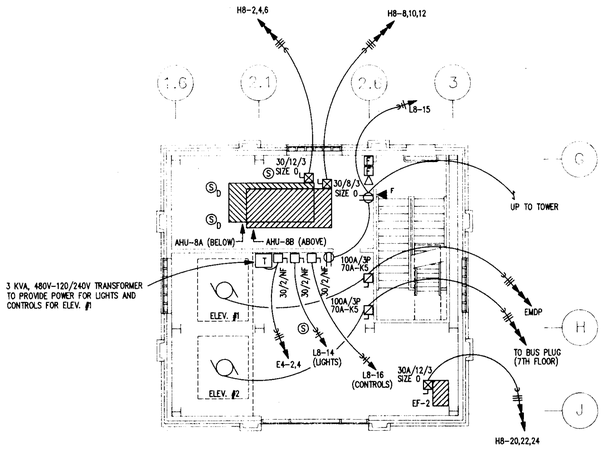
DRAWINGS, SHEET E-23

A. The telephone outlet near the stair hatch opening in the Bell Tower Lighting and Power Plan is for fire fighters' telephone. The symbol is not shown clearly on the Plan.

B. The secondary lines of the 3 KVA transformer to be installed on the Power and Systems Elevator Equipment Floor to provide power for lights and controls of Elevator #1 should have 20 amp fuses installed on both secondary lines to provide overload protection of the elevator equipment.

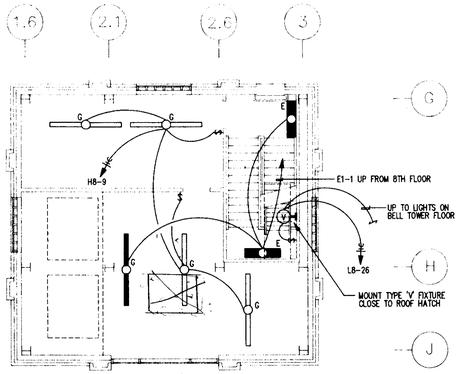
C. The power circuit for the 3 KVA transformer, E4-2,4 does not require the circuit neutral shown on the Elevator Equipment Floor Plan.

D. The disconnects shown for the Cooling Tower fan motors should be 60 amp 6 pole rather than the 100 amp shown on the Cooling Tower Power Plan. The size is shown correctly as 60 amp on the one line diagram.



POWER & SYSTEMS ELEVATOR EQUIPMENT FLOOR

SCALE : 1/8" = 1'-0"



LIGHTING ELEVATOR EQUIPMENT FLOOR

SCALE : 1/8" = 1'-0"

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E23

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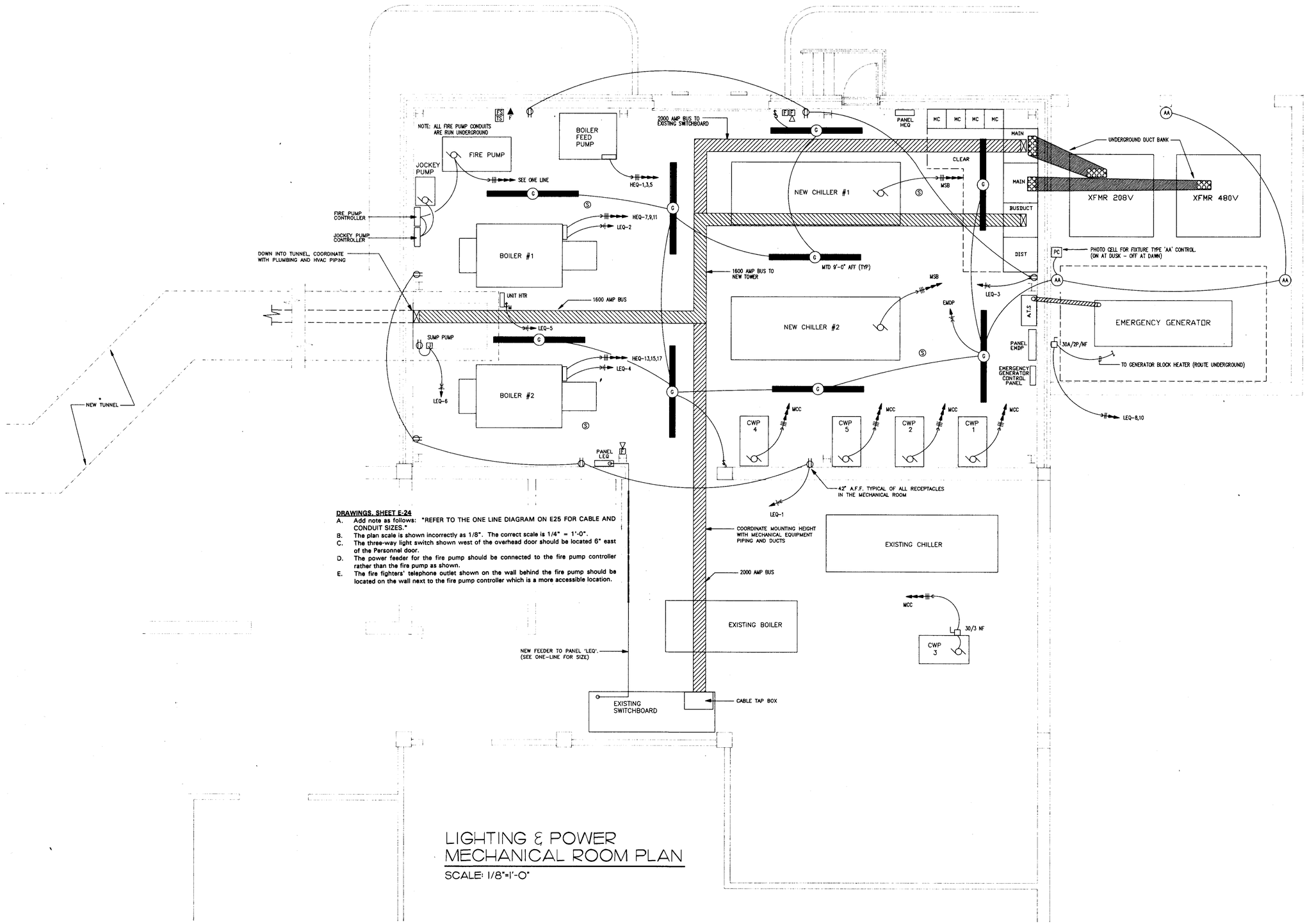

DRAWINGS, SHEET E-24

A. Add note as follows: "REFER TO THE ONE LINE DIAGRAM ON E25 FOR CABLE AND CONDUIT SIZES."
B. The plan scale is shown incorrectly as 1/8". The correct scale is 1/4" = 1'-0".
C. The three-way light switch shown west of the overhead door should be located 6" east of the Personnel door.
D. The power feeder for the fire pump should be connected to the fire pump controller rather than the fire pump as shown.
E. The fire fighters' telephone outlet shown on the wall behind the fire pump should be located on the wall next to the fire pump controller which is a more accessible location.

LIGHTING & POWER MECHANICAL ROOM PLAN

SCALE: 1/8"=1'-0"

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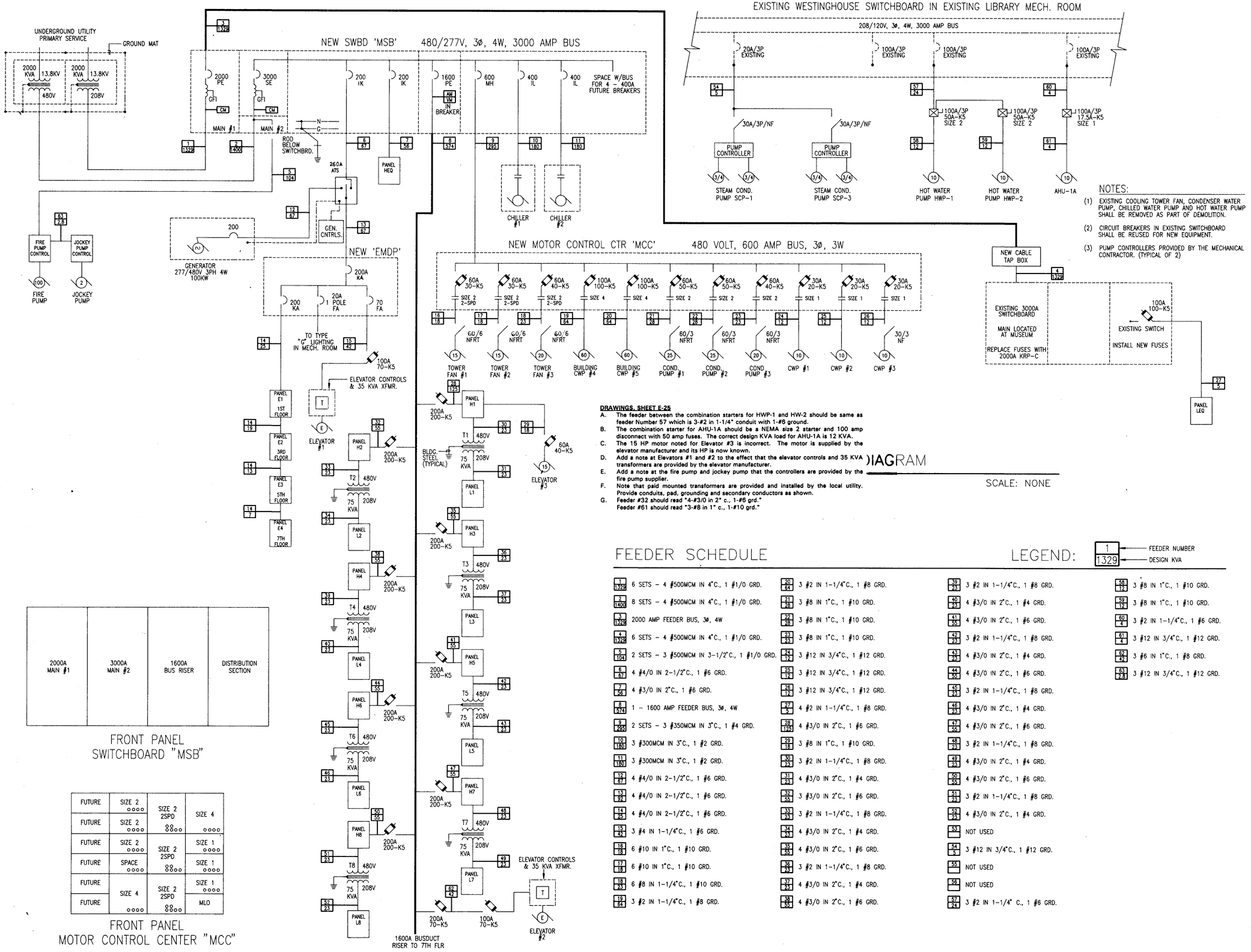

NOTES:

(1) EXISTING COOLING TOWER FAN, CONDENSER WATER PUMP, CHILLED WATER PUMP AND HOT WATER PUMP SHALL BE REMOVED AS PART OF DEMOLITION.

(2) CIRCUIT BREAKERS IN EXISTING SWITCHBOARD SHALL BE REUSED FOR NEW EQUIPMENT.

(3) PUMP CONTROLLERS PROVIDED BY THE MECHANICAL CONTRACTOR. (TYPICAL OF 2)

DRAWINGS, SHEET E-25

A. The feeder between the combination starters for HWP-1 and HW-2 should be same as feeder Number 57 which is 3-#2 in 1-1/4" conduit with 1-#6 ground.
B. The combination starter for AHU-1A should be a NEMA size 2 starter and 100 amp disconnect with 50 amp fuses. The correct design KVA load for AHU-1A is 12 KVA.
C. The 15 HP motor noted for Elevator #3 is incorrect. The motor is supplied by the elevator manufacturer and its HP is now known.
D. Add a note at Elevators #1 and #2 to the effect that the elevator controls and 35 KVA transformers are provided by the elevator manufacturer.
E. Add a note at the fire pump and jockey pump that the controllers are provided by the fire pump supplier.
F. Note that paid mounted transformers are provided and installed by the local utility. Provide conduits, pad, grounding and secondary conductors as shown.
G. Feeder #32 should read "4-#3/0 in 2" c., 1-#6 grd."
Feeder #61 should read "3-#8 in 1" c., 1-#10 grd."

DIAGRAM

SCALE: NONE

2000A MAIN #1	3000A MAIN #2	1600A BUS RISER	DISTRIBUTION SECTION

FRONT PANEL
SWITCHBOARD "MSB"

FUTURE	SIZE 2	SIZE 2 2SPD	SIZE 4
FUTURE	SIZE 2		
FUTURE	SIZE 2	SIZE 2 2SPD	SIZE 1
FUTURE	SPACE		SIZE 1
FUTURE	SIZE 4	SIZE 2 2SPD	SIZE 1
FUTURE			MLO

FRONT PANEL
MOTOR CONTROL CENTER "MCC"

FEEDER SCHEDULE

LEGEND: 1 / 1329 — FEEDER NUMBER / DESIGN KVA

1 / 1329	6 SETS - 4 #500MCM IN 4"C., 1 #1/0 GRD.	20 / 64	3 #2 IN 1-1/4"C., 1 #8 GRD.	39 / 23	3 #2 IN 1-1/4"C., 1 #8 GRD.	58 / 12	3 #8 IN 1"C., 1 #10 GRD.
2 / 1400	8 SETS - 4 #500MCM IN 4"C., 1 #1/0 GRD.	21 / 28	3 #8 IN 1"C., 1 #10 GRD.	40 / 23	4 #3/0 IN 2"C., 1 #4 GRD.	59 / 12	3 #8 IN 1"C., 1 #10 GRD.
3 / 1329	2000 AMP FEEDER BUS, 3ø, 4W	22 / 28	3 #8 IN 1"C., 1 #10 GRD.	41 / 55	4 #3/0 IN 2"C., 1 #6 GRD.	60 / 4	3 #2 IN 1-1/4"C., 1 #6 GRD.
4 / 1329	6 SETS - 4 #500MCM IN 4"C., 1 #1/0 GRD.	23 / 23	3 #8 IN 1"C., 1 #10 GRD.	42 / 23	3 #2 IN 1-1/4"C., 1 #8 GRD.	61 / 4	3 #12 IN 3/4"C., 1 #12 GRD.
5 / 104	2 SETS - 3 #500MCM IN 3-1/2"C., 1 #1/0 GRD.	24 / 12	3 #12 IN 3/4"C., 1 #12 GRD.	43 / 23	4 #3/0 IN 2"C., 1 #4 GRD.	62 / 4	3 #6 IN 1"C., 1 #8 GRD.
6 / 67	4 #4/0 IN 2-1/2"C., 1 #6 GRD.	25 / 12	3 #12 IN 3/4"C., 1 #12 GRD.	44 / 55	4 #3/0 IN 2"C., 1 #6 GRD.	63 / 2.8	3 #12 IN 3/4"C., 1 #12 GRD.
7 / 58	4 #3/0 IN 2"C., 1 #6 GRD.	26 / 12	3 #12 IN 3/4"C., 1 #12 GRD.	45 / 23	3 #2 IN 1-1/4"C., 1 #8 GRD.		
8 / 574	1 - 1600 AMP FEEDER BUS, 3ø, 4W	27 / 12	4 #2 IN 1-1/4"C., 1 #8 GRD.	46 / 23	4 #3/0 IN 2"C., 1 #4 GRD.		
9 / 285	2 SETS - 3 #350MCM IN 3"C., 1 #4 GRD.	28 / 125	4 #3/0 IN 2"C., 1 #6 GRD.	47 / 55	4 #3/0 IN 2"C., 1 #6 GRD.		
10 / 180	3 #300MCM IN 3"C., 1 #2 GRD.	29 / 18	3 #8 IN 1"C., 1 #10 GRD.	48 / 23	3 #2 IN 1-1/4"C., 1 #8 GRD.		
11 / 180	3 #300MCM IN 3"C., 1 #2 GRD.	30 / 23	3 #2 IN 1-1/4"C., 1 #8 GRD.	49 / 23	4 #3/0 IN 2"C., 1 #4 GRD.		
12 / 67	4 #4/0 IN 2-1/2"C., 1 #6 GRD.	31 / 23	4 #3/0 IN 2"C., 1 #4 GRD.	50 / 55	4 #3/0 IN 2"C., 1 #6 GRD.		
13 / 92	4 #4/0 IN 2-1/2"C., 1 #6 GRD.	32 / 55	3 #3/0 IN 2"C., 1 #6 GRD.	51 / 23	3 #2 IN 1-1/4"C., 1 #8 GRD.		
14 / 25	4 #4/0 IN 2-1/2"C., 1 #6 GRD.	33 / 23	3 #2 IN 1-1/4"C., 1 #8 GRD.	52 / 23	4 #3/0 IN 2"C., 1 #4 GRD.		
15 / 42	3 #4 IN 1-1/4"C., 1 #6 GRD.	34 / 23	4 #3/0 IN 2"C., 1 #4 GRD.	53	NOT USED		
16 / 18	6 #10 IN 1"C., 1 #10 GRD.	35 / 55	4 #3/0 IN 2"C., 1 #6 GRD.	54 / 5	3 #12 IN 3/4"C., 1 #12 GRD.		
17 / 18	6 #10 IN 1"C., 1 #10 GRD.	36 / 23	3 #2 IN 1-1/4"C., 1 #8 GRD.	55	NOT USED		
18 / 23	6 #8 IN 1-1/4"C., 1 #10 GRD.	37 / 23	4 #3/0 IN 2"C., 1 #4 GRD.	56	NOT USED		
19 / 64	3 #2 IN 1-1/4"C., 1 #8 GRD.	38 / 55	4 #3/0 IN 2"C., 1 #6 GRD.	57 / 24	3 #2 IN 1-1/4" C., 1 #6 GRD.		

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REGISTERED PROFESSIONAL ENGINEER No. 6891 RICHARD W. BRACKETT

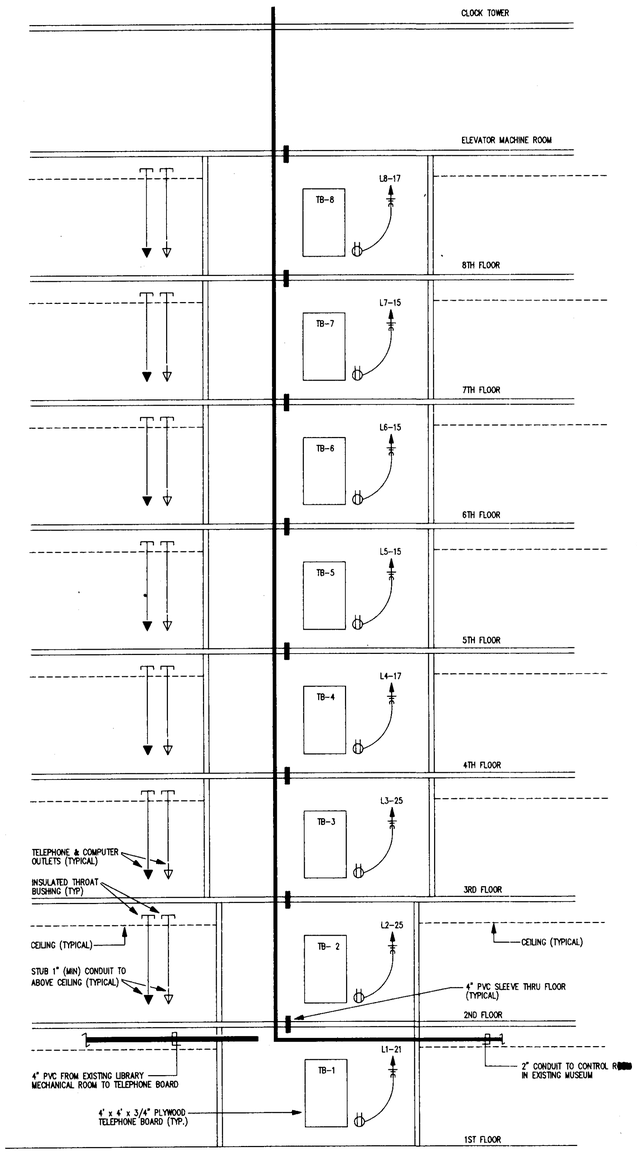
Brackett Krennerich and Associates

COMM. NO. 11990

E25

DATE: SEPT. 15, 1991

Architectural Engineering Planning



TELEPHONE RISER

N.T.S.

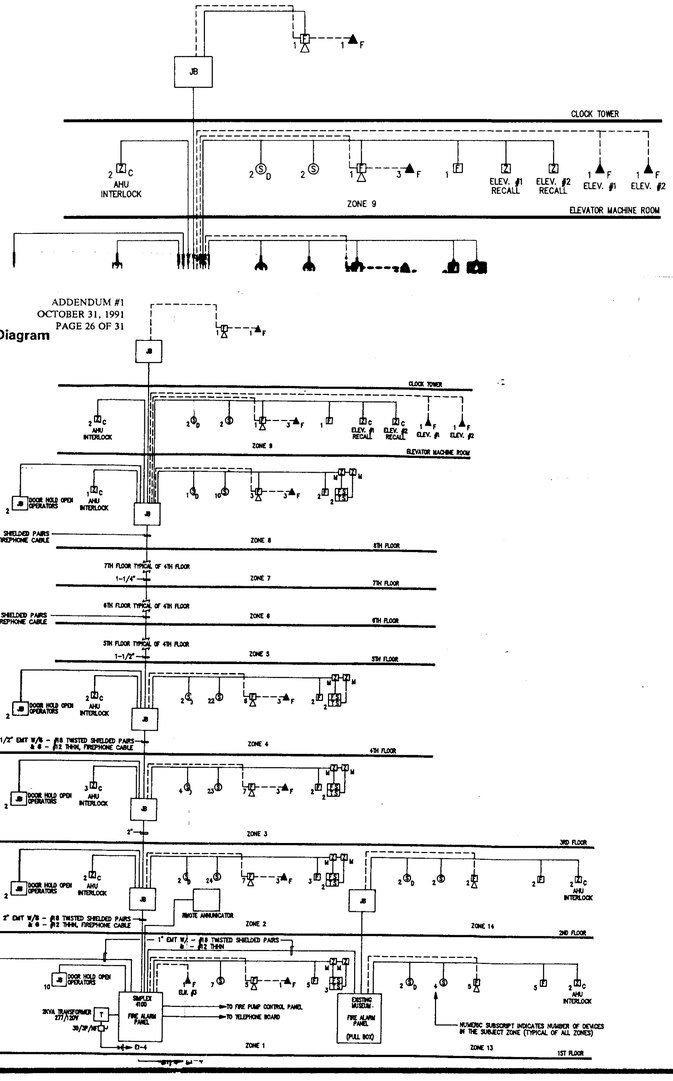
FIRE ALARM NOTES

(1) ALL DEVICES ARE ADDRESSABLE.

(2) ALL WIRING IS CLASS "B".

(3) INSTALL ONE LOOP (ZONE) PER FLOOR, PER AREA.

(4) ANNUNCIATE ALARM & TROUBLE USING RED/YELLOW LED'S ON REMOTE PANEL.



FIRE ALARM RISER

N.T.S.

ADDITIONS AND ALTERATIONS TO
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ADDENDUM #1
OCTOBER 31, 1991
PAGE 26 OF 31

Revised Fire Alarm Riser Diagram
E26 - A1
Refer to item #78

FIRE ALARM RISER

N.T.S.

DRAWINGS, SHEET E-26
The fire alarm riser is revised and Drawing E26-A1 is part of this Addendum.

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REGISTERED PROFESSIONAL ENGINEER
No.6691
RICHARD W. GREEN

Brackett Krennerich and Associates P.A.

Architects Engineers Planners

COMM. NO. 11990
E26
DATE: SEPT. 15, 1991

BRUNING 40-9020 3/1991

PANELBOARD SCHEDULE

PANEL **H1** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM BUSDUCT
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☐ BOTTOM INTERRUPTING RATING 14,000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
	LIGHTS – CORRIDOR & TOILETS	20/1	1	3.75			3.0			2	20/1	LIGHTS – 6 CORRIDORS & EQUIPMENT ROOM	
	LIGHTS – ARCHEOLOGY	20/1	3		3.75			1.9		4	20/1	LIGHTS – MEDIA PRESENTATIONS	
	LIGHTS – STUDENT MALL	20/1	5			3.75			3.8	6	20/1	LIGHTS – MEDIA SERVICES	
	LIGHTS – STUDY HALL, LOUNGE & VENDING	20/1	7	3.75			2.6			8	20/1	LIGHTS – MEDIA SERVICES AREA	
	LIGHTS – PERIMETER & LOUNGE	20/1	9		3.75			1.7		10	20/1	LIGHTS – LOBBY	
	BLDG. EXTERIOR LIGHTS – SOUTHWEST	20/2	11			3.24			0.6	12	20/3	STEAM COND. PUMP SCP–2	E
	BLDG. EXTERIOR LIGHTS – SOUTHWEST	——	13	3.24			0.6			14	——	STEAM COND. PUMP SCP–2	
	BLDG. EXTERIOR LIGHTS – SOUTHWEST	20/2	15		3.24			0.6		16	——	STEAM COND. PUMP SCP–2	
	BLDG. EXTERIOR LIGHTS – SOUTHWEST	——	17			3.24				18	20/1	SPARE	
	EXTERIOR LIGHTS – WALK WAY	20/1	19	1.9						20	20/1	SPARE	
	SPARE	20/1	21		3.75					22	20/1	SPARE	
	SPARE	20/1	23			3.75				24	20/1	SPARE	
	SPARE	20/1	25							26	20/1	SPARE	
	SPARE	20/1	27							28	20/1	SPARE	
	SPARE	20/1	29							30	20/1	SPARE	
E	ELEVATOR #3 – 15HP	60/3	31	5.82						32	20/1	SPARE	
E	ELEVATOR #3 – 15HP	——	33		5.82					34	20/1	SPARE	
E	ELEVATOR #3 – 15HP	——	35			5.82				36	20/1	SPARE	
E	TRANSFORMER T1	90/3	37	20.0						38	20/1	SPARE	
	TRANSFORMER T1	——	39		20.0					40	20/1	SPARE	
	TRANSFORMER T1	——	41			20.0				42	20/1	SPARE	
				38.5	36.6	32.8	6.2	4.2	4.4				
				44.7	40.8	37.2	TOTALS						
				122.7			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **H2** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM BUSDUCT
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☐ BOTTOM INTERRUPTING RATING 14,000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
L	LIGHTS – NORTH STACKS	20/1	1	1.5			0.7			2	20/1	LIGHTS – JANITOR, TOILETS, MECH. RM.	
L	LIGHTS – EAST STACKS	20/1	3		1.6			1.0		4	20/1	LIGHTS – PERIMETER	
L	LIGHTS – EAST STACKS	20/1	5			1.5			2.1	6	20/3	AHU–2A	E
L	LIGHTS – EAST CENTER STACKS	20/1	7	1.7			2.1			8	——	AHU–2A	
L	LIGHTS – CENTER STACKS	20/1	9		1.5			2.1		10	——	AHU–2A	
L	LIGHTS – WEST CENTER STACKS	20/1	11			1.5			2.1	12	20/3	AHU–2B	E
L	LIGHTS – WEST STACKS	20/1	13	1.7			2.1			14	——	AHU–2B	
L	LIGHTS – WEST STACKS	20/1	15		1.5			2.1		16	——	AHU–2B	
L	LIGHTS – WEST GROUP STUDY	20/1	17			2.1				18	20/1	SPARE	
L	LIGHTS – SOUTH GROUP STUDY	20/1	19	2.1						20	20/1	SPARE	
	LIGHTS – STAFF WORK ROOM, OFFICES	20/1	21		2.8					22	20/1	SPARE	
	LIGHTS – CIRCULATION DESK	20/1	23			2.8				24	20/1	SPARE	
	INTER–LIBRARY LOAN	20/1	25	2.8						26	20/1	SPARE	
	LIGHTS – CIRCULATION	20/1	27		2.4					28	20/1	SPARE	
	LIGHTS – CIRCULATION	20/1	29			2.7				30	20/1	SPARE	
	SPARE	20/1	31							32	20/1	SPARE	
	SPARE	20/1	33							34	20/1	SPARE	
	SPARE	20/1	35							36	20/1	SPARE	
E	TRANSFORMER T2	90/3	37	20.0						38	20/1	SPARE	
	TRANSFORMER T2	——	39		20.0					40		POWER SUPPLY #EHBPLPS FOR	
	TRANSFORMER T2	——	41			20.0				42		R.C. CIRCUIT BREAKERS	
L = R.C. CIRCUIT BREAKER #EHB1420PL				29.8	29.8	30.6	4.9	5.2	4.2				
				34.7	39.0	34.8	TOTALS						
				104.5			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **H3** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM BUSDUCT
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☐ BOTTOM INTERRUPTING RATING 14,000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
L	LIGHTS – NORTH, GROUP STUDY, LOUNGE	20/1	1	2.5			2.1			2	20/3	AHU–3A	E
L	LIGHTS – EAST STACKS	20/1	3		1.6			2.1		4	——	AHU–3A	
L	LIGHTS – EAST STACKS	20/1	5			1.5			2.1	6	——	AHU–3A	
L	LIGHTS – EAST CENTER STACKS	20/1	7	1.7			2.1			8	20/3	AHU–3B	E
L	LIGHTS – CENTER STACKS	20/1	9		1.5			2.1		10	——	AHU–3B	
L	LIGHTS – WEST CENTER STACKS	20/1	11			1.5			2.1	12	——	AHU–3B	
L	LIGHTS – WEST STACKS	20/1	13	1.7			0.5			14	20/1	ENTRY LIGHTING	L
	SPARE	20/1	15					2.5		16	20/1	LIGHTS – PUBLIC SERVICE	
	LIGHTS – PERIMETER (WEST & SOUTH)	20/1	17		0.9				2.0	18	20/1	LIGHTS – RECEPTION OFFICES	
	LIGHTS – JANITOR, TOILET, MECH. RM.	20/1	19	0.7			9.4			20	70/3	AHU–1B	E
L	LIGHTS – MAIN LOBBY	20/1	21		3.13			9.4		22	——	AHU–1B	
L	LIGHTS – MAIN LOBBY	20/1	23			3.13			9.4	24	——	AHU–1B	
L	LIGHTS – MAIN LOBBY	20/1	25	3.13						26	20/1	SPARE	
L	LIGHTS – MAIN LOBBY	20/1	27		3.13					28	20/1	SPARE	
	LIGHTS – ADMINISTRATION	20/1	29			2.2				30	20/1	SPARE	
	LIGHTS – ADMINISTRATION	20/1	31	2.2						32	20/1	SPARE	
	SPARE	20/1	33							34	20/1	SPARE	
	SPARE	20/1	35							36	20/1	SPARE	
E	TRANSFORMER T3	90/3	37	18.0						38	20/1	SPARE	
	TRANSFORMER T3	——	39		18.0					40		POWER SUPPLY #EHBPLPS FOR	
	TRANSFORMER T3	——	41			18.0				42		R.C. CIRCUIT BREAKERS	
L = R.C. CIRCUIT BREAKER #EHB1420PL				29.9	27.4	27.2	14.1	16.1	15.6				
				44.1	43.4	42.8	TOTALS						
				130.3			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **L1** VOLTS 208/120 3PH 4W MAINS: 225A ☐ LUGS ☒ BREAKER COPPER BUS GROUND BAR FED FROM H1
TYPE NQOD ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☐ BOTTOM INTERRUPTING RATING 10000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
L	LIGHTS – ELEVATOR PITS	20/1	1	0.3			1.2			2	20/1	DUPLEX – STUDENT MALL & VENDING	R
L	LIGHTS – DISPLAY CASES	20/1	3		0.7			0.6		4	20/1	DUPLEX – E.D.F. & MECHANICAL ROOM	R
R	DUPLEX – CORRIDOR, EXTERIOR	20/1	5			0.6			1.2	6	20/1	DUPLEX – STUDY HALL & LOUNGE	R
R	DUPLEX – ARCHEOLOGY	20/1	7	1.2			1.2			8	20/1	DUPLEX – VENDING	R
R	DUPLEX – ARCHEOLOGY	20/1	9		1.2			1.2		10	20/1	DUPLEX – VENDING	R
R	DUPLEX – MAPROOM & PROCESS LAB	20/1	11			1.2			1.1	12	20/1	FAN POWERED TERM. BOXES ES–1 & 2	E
R	DUPLEX – PROCESS LAB & OFFICE	20/1	13	1.2			1.4			14	20/1	FAN POWERED BOXES ES–7 & 8	E
R	DUPLEX – OFFICE	20/1	15		1.2			0.9		16	20/1	FAN POWERED BOX ES–10	E
R	DUPLEX – CORRIDOR	20/1	17			1.2			1.4	18	20/1	FAN POWERED BOXES ES–11 & 12	E
R	DUPLEX – JANITOR, ELEC. RM., LOBBY	20/1	19	0.8			0.7			20	20/1	FAN POWERED BOX ES–13	E
R	DUPLEX – TELEPHONE BOARD	20/1	21		0.4			0.9		22	20/1	EXHAUST FAN EF–1	E
E	DUPLEX – SUMP PUMP (ELEC. PIT)	20/1	23			1.0			0.8	24	20/1	DUPLEX – MEDIA PRESENTATIONS	R
E	DUPLEX – SUMP PUMP (ELEC. PIT)	20/1	25	1.0			1.0			26	20/1	DUPLEX – MEDIA SERVICES OFFICES	R
E	DUPLEX – SUMP PUMP (ELEC. PIT)	20/1	27		1.0			0.8		28	20/1	DUPLEX – MEDIA SERVICES OFFICES	R
R	PLUG STRIP – GRAPHICS LAB	20/1	29			1.0			0.6	30	20/1	DUPLEX – CONTROL ROOM	R
R	PLUG STRIP – GRAPHICS LAB	20/1	31	1.0			0.6			32	20/1	DUPLEX – CONTROL ROOM	R
R	PLUG STRIP – GRAPHICS LAB	20/1	33		1.0			0.6		34	20/1	DUPLEX – CONTROL ROOM	R
R	DUPLEX – REVIEW ROOMS	20/1	35			1.2			0.6	36	20/1	DUPLEX – EDIT ROOM	R
R	DUPLEX – FLOOR MEDIA SERVICES	20/1	37	0.8			0.6			38	20/1	DUPLEX – EDIT ROOM	R
R	DUPLEX – FLOOR MEDIA SERVICES	20/1	39		0.8			0.6		40	20/1	DUPLEX – EDIT ROOM	R
R	DUPLEX – FLOOR MEDIA SERVICES	20/1	41			0.8			1.2	42	20/1	SUMP PUMP	E
R	DUPLEX – MEDIA SERVICES	20/1	43	0.4			1.3			44	20/1	FAN POWERED TERM. BOXES ES–14 & 16	R
R	DUPLEX – LOBBY	20/1	45		0.6			0.9		46	20/1	FAN POWERED TERM. BOX ES–15	R
R	DUPLEX – LOBBY	20/1	47			1.0			2.0	48	30/1	WATER HEATER WH–2	E
E	ELEVATOR LIGHTS	20/1	49	0.2			1.5			50	20/1	AUTO DOORS	E
E	ELEVATOR CONTROLS	20/1	51		0.6			0.4		52	20/1	EXTERIOR RECEPTACLES	R
	SPARE	20/1	53							54	20/1	SPARE	
	SPARE	20/1	55							56	20/1	SPARE	
	SPARE	20/1	57							58	20/1	SPARE	
	SPARE	20/1	59							60	20/1	SPARE	
	SPARE	20/1	61							62	20/1	SPARE	
	SPARE	20/1	63							64	20/1	SPARE	
	SPARE	20/1	65							66	20/1	SPARE	
	SPARE	20/1	67							68	20/1	SPARE	
	SPARE	20/1	69							70	20/1	SPARE	
	SPARE	20/1	71							72	20/1	SPARE	
	SPARE	20/1	73							74	20/1	SPARE	
	SPARE	20/1	75							76	20/1	SPARE	
	SPARE	20/1	77							78	20/1	SPARE	
	SPARE	20/1	79							80	20/1	SPARE	
	SPARE	20/1	81							82	20/1	SPARE	
	SPARE	20/1	83							84	20/1	SPARE	
				6.9	7.5	8.0	9.5	6.9	8.9				
				16.4	14.4	16.9	TOTALS						
				47.7			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **L2** VOLTS 208/120 3PH 4W MAINS: 225A ☐ LUGS ☒ BREAKER COPPER BUS GROUND BAR FED FROM H1
TYPE NQOD ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☐ BOTTOM INTERRUPTING RATING 10000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
R	COPIER	20/1	1	1.0			1.2			2	20/1	STUDY ROOMS – NORTHWEST	R
R	JANITOR, ELEC. RM., ELEV. LOBBY	20/1	3		0.8			1.2		4	20/1	STUDY ROOMS/TABLES – NORTHWEST	R
R	NORTHEAST WORK TABLE COMP.	20/1	5			0.6			1.2	6	20/1	STUDY TABLES – NORTHWEST	R
R	GENERAL PURPOSE RECEPTACLES	20/1	7	1.2			1.2			8	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	9		1.2			1.2		10	20/1	GENERAL PURPOSE RECEPTACLES	R
R	STUDY ROOMS – SOUTHEAST	20/1	11			1.2			1.2	12	20/1	GENERAL PURPOSE RECEPTACLES	R
R	E.D.F. & MECHANICAL ROOM	20/1	13	0.6			1.2			14	20/1	GENERAL PURPOSE RECEPTACLES	R
E	FAN BOXES – HVAC	20/1	15		0.7			1.2		16	20/1	GENERAL PURPOSE RECEPTACLES	R
R	READING LOUNGE	20/1	17			1.2			0.8	18	20/1	STUDY ROOMS – SOUTHWEST	R
R	RESERVED READING	20/1	19	1.2			1.2			20	20/1	STUDY ROOMS – SOUTHWEST	R
R	STAFF WORKROOM	20/1	21		1.2			1.2		22	20/1	STUDY TABLES – NORTHWEST	R
R	LIBRARY OFFICE & READY ROOM	20/1	23			1.0			1.2	24	20/1	STUDY TABLES – NORTHWEST	R
R	TELEPHONE BOARD	20/1	25	0.2			0.6			26	20/1	CIRCULATION DESK	R
E	AUTOMATIC DOORS	20/1	27		1.5			1.0		28	20/1	SECURITY DETECTOR	R
R	LOBBY RECEPTACLES	20/1	29			0.8			1.1	30	20/1	FAN BOXES	E
R	STAFF WORK ROOM	20/1	31	0.5			1.1			32	20/1	FAN BOXES	E
E	FAN COIL UNITS (4)	20/1	33		0.8			1.2		34	20/1	FAN BOXES	E
E	AUTO DOORS	20/1	35			1.5				36	20/1	SPARE	
E	FAN BOX 31	20/1	37	0.9						38	20/1	SPARE	
E	FAN BOX 30	20/1	39		0.9					40	20/1	SPARE	
	SPARE	20/1	41							42	20/1	SPARE	
	SPARE	20/1	43							44	20/1	SPARE	
	SPARE	20/1	45							46	20/1	SPARE	
	SPARE	20/1	47							48	20/1	SPARE	
	SPARE	20/1	49							50	20/1	SPARE	
	SPARE	20/1	51							52	20/1	SPARE	
	SPARE	20/1	53							54	20/1	SPARE	
	SPARE	20/1	55							56	20/1	SPARE	
	SPARE	20/1	57							58	20/1	SPARE	
	SPARE	20/1	59							60	20/1	SPARE	
	SPARE	20/1	61							62	20/1	SPARE	
	SPARE	20/1	63							64	20/1	SPARE	
	SPARE	20/1	65							66	20/1	SPARE	
	SPARE	20/1	67							68	20/1	SPARE	
	SPARE	20/1	69							70	20/1	SPARE	
	SPARE	20/1	71							72	20/1	SPARE	
	SPARE	20/1	73							74	20/1	SPARE	
	SPARE	20/1	75							76	20/1	SPARE	
	SPARE	20/1	77							78	20/1	SPARE	
	SPARE	20/1	79							80	20/1	SPARE	
	SPARE	20/1	81							82	20/1	SPARE	
	SPARE	20/1	83							84	20/1	SPARE	
				5.9	7.1	6.3	6.5	7.0	5.5				
				12.4	14.1	11.8	TOTALS						
				38.3			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **L3** VOLTS 208/120 3PH 4W MAINS: 225A ☐ LUGS ☒ BREAKER COPPER BUS GROUND BAR FED FROM H1
TYPE NQOD ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☐ BOTTOM INTERRUPTING RATING 10000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
R	COPIER	20/1	1	1.0			0.8			2	20/1	STUDY ROOMS – NORTHWEST	R
R	JANITOR, ELEC. ROOM, ELEV. LOBBY	20/1	3		0.8			1.0		4	20/1	STUDY TABLES – NORTHWEST	R
R	WORK TABLE, COMPUTER – NORTHEAST	20/1	5			0.6			1.2	6	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	7	1.2			0.8			8	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	9		1.0			1.0		10	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	11			1.2			0.6	12	20/1	E.D.F. & MECHANICAL ROOM	R
H	FAN BOXES – HVAC	20/1	13	0.6			1.0			14	20/1	LOUNGE & STUDY TABLES	R
R	PUBLIC SERVICE ROOM	20/1	15		1.2			0.8		16	20/1	STUDY TABLES – SOUTHEAST	R
R	STAFF LOUNGE & BREAK ROOM	20/1	17			1.2			1.0	18	20/1	RECEPTION & ASSISTANT DIRECTOR OFFICE	R
R	STAFF BREAK ROOM COUNTER	20/1	19	0.8			1.0			20	20/1	ASSISTANT DIRECTOR & WORK ROOM	R
R	LIBRARY DIRECTOR OFFICE	20/1	21		0.9			1.22		22	20/1	FAN BOXES	E
R	DIRECTOR OFFICE & RECEPTION	20/1	23			1.2			1.22	24	20/1	FAN BOXES	E
R	TELEPHONE BOARD	20/1	25	0.2			1.58			26	20/1	FAN BOXES	E
R	WORK ROOM	20/1	27		0.6			1.5		28	20/1	NEON LIGHTING	
E	WATER HEATER WH–2	30/1	29			2.0			0.9	30	20/1	FAN BOX	E
E	FAN BOX	20/1	31	0.9						32	20/1	FAN BOXES	
	SPARE	20/1	33							34	20/1	SPARE	
	SPARE	20/1	35							36	20/1	SPARE	
	SPARE	20/1	37							38	20/1	SPARE	
	SPARE	20/1	39							40	20/1	SPARE	
	SPARE	20/1	41							42	20/1	SPARE	
				4.7	4.5	6.2	5.2	5.5	4.9				
				9.9	10.0	11.1	TOTALS						
				31.0			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **E1** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM ATS–1
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☒ BOTTOM INTERRUPTING RATING 14000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
	NORTH STAIR LIGHTS	20/1	1	2.3			1.6			2	20/1	2ND FLOOR EMERGENCY/NIGHT LIGHTS	L
	SOUTH STAIR LIGHTS	20/1	3		2.8			1.5		4	20/1	FIRE ALARM PANEL	E
	1ST FLOOR EMERGENCY/NIGHT LIGHTS	20/1	5			1.8			2.5	6	20/1	LOBBY CLOUMN LIGHTS	L
	1ST FLOOR LOBBY EMERGENCY/NIGHT LIGHTS	20/1	7	1.0						8	20/1	SPARE	
	SPARE	20/1	9							10	20/1	SPARE	
	SPARE	20/1	11							12	20/1	SPARE	
	SPARE	20/1	13							14	20/1	SPARE	
	SPARE	20/1	15							16	20/1	SPARE	
	SPARE	20/1	17							18	20/1	SPARE	
				3.3	2.8	1.8	1.6	1.5	2.5				
				4.9	4.3	4.3	TOTALS						
				13.5			TOTAL CONN. LOAD KVA						

NOTE: PROVIDE FEED–THRU LUGS.

PANELBOARD SCHEDULE

PANEL **E2** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM ATS–1
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☒ BOTTOM INTERRUPTING RATING 14000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
	SPARE	20/1	1							2	20/1	SPARE	
	4TH FLOOR EMERGENCY LIGHTS	20/1	3		1.7					4	20/1	SPARE	
	3RD FLOOR EMERGENCY/NIGHT LIGHTS	20/1	5			1.7				6	20/1	SPARE	
		20/1	7							8	20/1	SPARE	
		20/1	9							10	20/1	SPARE	
		20/1	11							12	20/1	SPARE	
		20/1	13							14	20/1	SPARE	
		20/1	15							16	20/1	SPARE	
		20/1	17							18	20/1	SPARE	
				1.7	1.7								
				1.7	1.7		TOTALS						
				3.4			TOTAL CONN. LOAD KVA						

NOTE: PROVIDE FEED–THRU LUGS.

PANELBOARD SCHEDULE

PANEL **E3** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM ATS–1
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☒ BOTTOM INTERRUPTING RATING 14000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
	5TH FLOOR EMERGENCY LIGHTS	20/1	1	1.7						2	20/1	SPARE	
	6TH FLOOR EMERGENCY LIGHTS	20/1	3		1.7					4	20/1	SPARE	
	SPARE	20/1	5							6	20/1	SPARE	
	SPARE	20/1	7							8	20/1	SPARE	
	SPARE	20/1	9							10	20/1	SPARE	
	SPARE	20/1	11							12	20/1	SPARE	
	SPARE	20/1	13							14	20/1	SPARE	
	SPARE	20/1	15							16	20/1	SPARE	
	SPARE	20/1	17							18	20/1	SPARE	
				1.7	1.7								
				1.7	1.7		TOTALS						
				3.4			TOTAL CONN. LOAD KVA						

NOTE: PROVIDE FEED–THRU LUGS.

DRAWINGS, SHEET E-27
Revise Panelboard L3 as follows:

A. Change the circuit breaker at Circuit #28, 32, 34, 36 and 38 to remote controllable circuit breaker, Square D #QOB120PL.
B. Replace the circuit breakers at Circuits #40 and 42 with power supply for remote controllable circuit breakers, Square D #QOBPLPS.
C. Change circuits from "spare" to the following:
   #32 - Main Lobby Lights
   #33 - Staff Lounge Refrigerator
   #34, 36 and 38 - Main Lobby Lights
D. Revise panel loads as follows:
   Phase A = 11.9 KVA
   Phase B = 11.0 KVA
   Phase C = 12.1 KVA
   Total Conn. Load = 35.0 KVA

DRAWINGS, SHEET E-27
Delete the "L" (remote control breaker designation) from the following circuits: U-1,3 and E1-2, 6.

ADDITIONS AND ALTERATIONS TO
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Brackett Krennerich and Associates, P.A.
Architects, Engineers, Planners

ARKANSAS REGISTERED PROFESSIONAL ENGINEER RICHARD W. BRACKETT No. 5691

COMM. NO. 11990
E27
DATE: SEPT. 15, 1991

PANELBOARD SCHEDULE

PANEL **H4** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM BUSDUCT
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☐ BOTTOM INTERRUPTING RATING 14000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
	LIGHTS – PERIMETER	20/1	1	1.7			2.1			2	20/3	AHU-4A	E
L	LIGHTS – NORTH & GROUP STUDY	20/1	3		2.5			2.1		4			
L	LIGHTS – EAST STACKS	20/1	5			1.5			2.1	6			
L	LIGHTS – EAST STACKS	20/1	7	1.5			2.1			8	20/3	AHU-4B	E
L	LIGHTS – CENTER EAST STACKS	20/1	9		1.7			2.1		10			
L	LIGHTS – CENTER STACKS	20/1	11			1.5			2.1	12			
L	LIGHTS – CENTER WEST STACKS	20/1	13	1.5						14	20/1	SPARE	
L	LIGHTS – WEST STACKS	20/1	15		2.1					16	20/1	SPARE	
	SPARE	20/1	17							18	20/1	SPARE	
	LIGHTS – JANITOR, TOILETS, MECH. RM.	20/1	19	0.5						20	20/1	SPARE	
	SPARE	20/1	21							22	20/1	SPARE	
	SPARE	20/1	23							24	20/1	SPARE	
	SPARE	20/1	25							26	20/1	SPARE	
	SPARE	20/1	27							28	20/1	SPARE	
	SPARE	20/1	29							30	20/1	SPARE	
	SPARE	20/1	31							32	20/1	SPARE	
	SPARE	20/1	33							34	20/1	SPARE	
	SPARE	20/1	35							36	20/1	SPARE	
E	TRANSFORMER T4	90/3	37	20						38	20/1	SPARE	
	TRANSFORMER T4	——	39		20					40		POWER SUPPLY #EHBPLPS FOR	
	TRANSFORMER T4	——	41			20				42		R.C. CIRCUIT BREAKERS	
				25.2	26.3	23.0	4.2	4.2	4.2				
				29.4	30.5	27.2	TOTALS						
				87.1			TOTAL CONN. LOAD KVA						

L = R.C. CIRCUIT BREAKER #EHB1420PL

PANELBOARD SCHEDULE

PANEL **H5/H6/H7** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM BUSDUCT
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☒ BOTTOM INTERRUPTING RATING 14000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
	LIGHTS – PERIMETER	20/1	1	2.0			2.1			2	20/3	AHU-5A	E
L	LIGHTS – NORTH, GROUP STUDY & LOUNGE	20/1	3		2.1			2.1		4			
L	LIGHTS – EAST STACKS	20/1	5			1.5			2.1	6			
L	LIGHTS – EAST STACKS	20/1	7	1.5			2.1			8	20/3	AHU-5B	E
L	LIGHTS – CENTER EAST STACKS	20/1	9		1.7			2.1		10			
L	LIGHTS – CENTER STACKS	20/1	11			1.5			2.1	12			
L	LIGHTS – CENTER WEST STACKS	20/1	13	1.7						14	20/1	SPARE	
L	LIGHTS – WEST STACKS	20/1	15		2.5					16	20/1	SPARE	
	SPARE	20/1	17							18	20/1	SPARE	
	LIGHTS – JANITOR, TOILETS, MECH. RM.	20/1	19	0.5						20	20/1	SPARE	
	SPARE	20/1	21							22	20/1	SPARE	
	SPARE	20/1	23							24	20/1	SPARE	
	SPARE	20/1	25							26	20/1	SPARE	
	SPARE	20/1	27							28	20/1	SPARE	
	SPARE	20/1	29							30	20/1	SPARE	
	SPARE	20/1	31							32	20/1	SPARE	
	SPARE	20/1	33							34	20/1	SPARE	
	SPARE	20/1	35							36	20/1	SPARE	
E	TRANSFORMER T5/T6/T7	90/3	37	20.0						38	20/1	SPARE	
	TRANSFORMER T5/T6/T7	——	39		20.0					40		POWER SUPPLY #EHBPLPS FOR	
	TRANSFORMER T5/T6/T7	——	41			20.0				42		R.C. CIRCUIT BREAKERS	
				25.7	26.3	23.0	4.2	4.2	4.2				
				29.9	30.5	27.2	TOTALS						
				87.6			TOTAL CONN. LOAD KVA						

L = R.C. CIRCUIT BREAKER #EHB1420PL

PANELBOARD SCHEDULE

PANEL **H8** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM BUSDUCT
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☒ BOTTOM INTERRUPTING RATING 14000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
	LIGHTS – READING, CONFERENCE	20/1	1	3.2			2.1			2	20/3	AHU-8A	E
	LIGHTS – CONFERENCE	20/1	3		0.8			2.1		4	——	AHU-8A	
	LIGHTS – LOBBY, CORRIDOR	20/1	5			3.2			2.1	6	——	AHU-8A	
	LIGHTS – PERIMETER	20/1	7	0.9			1.33			8	15/3	AHU-8B	E
	LIGHTS – ELEV./MECH. ROOMS	20/1	9		0.8			1.33		10	——	AHU-8B	
	LIGHTS – EXTERIOR ROOF	20/2	11			3.8			1.33	12	——	AHU-8B	
	LIGHTS – EXTERIOR ROOF	——	13	3.8			1.33			14	15/3	AHU-9	E
	LIGHTS – EXTERIOR CLOCK TOWER	20/2	15		3.0			1.33		16	——	AHU-9	
	LIGHTS – EXTERIOR CLOCK TOWER	——	17			3.0			1.33	18	——	AHU-9	
	SPARE	20/1	19				0.5			20	15/3	EXHAUST FAN EF-2	E
	SPARE	20/1	21					0.5		22	——	EXHAUST FAN EF-2	
	SPARE	20/1	23						0.5	24	——	EXHAUST FAN EF-2	
	SPARE	20/1	25							26	20/1	SPARE	
	SPARE	20/1	27							28	20/1	SPARE	
	SPARE	20/1	29							30	20/1	SPARE	
	SPARE	20/1	31							32	20/1	SPARE	
	SPARE	20/1	33							34	20/1	SPARE	
	SPARE	20/1	35							36	20/1	SPARE	
E	TRANSFORMER T8	20/3	37	20.0						38	20/1	SPARE	
	TRANSFORMER T8	——	39		20.0					40	20/1	SPARE	
	TRANSFORMER T8	——	41			20.0				42	20/1	SPARE	
				27.9	24.6	30.0	5.26	5.26	5.26				
				33.2	29.9	35.3	TOTALS						
				98.3			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **E4** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM ATS-1
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☒ BOTTOM INTERRUPTING RATING 14000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
	7TH FLOOR EMERGENCY/NIGHT LIGHTS	20/1	1	1.7			1.5			2	20/2	ELEVATOR LIGHTS & CONTROLS	E
	SPARE	20/1	3					1.5		4	——		
	8TH FLOOR EMERGENCY/NIGHT LIGHTS	20/1	5			1.3				6	20/1	SPARE	
	SPARE	20/1	7							8	20/1	SPARE	
	SPARE	20/1	9							10	20/1	SPARE	
	SPARE	20/1	11							12	20/1	SPARE	
	SPARE	20/1	13							14	20/1	SPARE	
	SPARE	20/1	15							16	20/1	SPARE	
	SPARE	20/1	17							18	20/1	SPARE	
				1.7		1.3	1.5	1.5					
				3.2	1.5	1.3	TOTALS						
				6.0			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **L4** VOLTS 208/120 3PH 4W MAINS: 225A ☐ LUGS ☒ BREAKER COPPER BUS GROUND BAR FED FROM H4
TYPE NQOD ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☐ BOTTOM INTERRUPTING RATING 10000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
R	COPIER	20/1	1	1.0			1.2			2	20/1	STUDY ROOMS – NORTHWEST	R
R	JANITOR, ELEC. RM., ELEV. LOBBY	20/1	3		0.8			1.2		4	20/1	STUDY TABLES – NORTHWEST	R
R	WORK TABLE/COMPUTER – NORTHEAST	20/1	5			0.8			1.2	6	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	7	1.0			0.8			8	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	9		1.0			1.0		10	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	11			0.8			0.6	12	20/1	E.D.F. & MECHANICAL ROOM	R
R	GENERAL PURPOSE RECEPTACLES	20/1	13	0.8			1.0			14	20/1	LOUNGE & STUDY TABLES	R
H	FAN BOXES – HVAC	20/1	15		0.7			0.8		16	20/1	STUDY TABLES – SOUTHEAST	R
R	TELEPHONE BOARD	20/1	17			0.2			0.4	18	20/1	STUDY AREA – SOUTHEAST	R
	SPARE	20/1	19							20	20/1	SPARE	
	SPARE	20/1	21							22	20/1	SPARE	
	SPARE	20/1	23							24	20/1	SPARE	
	SPARE	20/1	25							26	20/1	SPARE	
	SPARE	20/1	27							28	20/1	SPARE	
	SPARE	20/1	29							30	20/1	SPARE	
	SPARE	20/1	31							32	20/1	SPARE	
	SPARE	20/1	33							34	20/1	SPARE	
	SPARE	20/1	35							36	20/1	SPARE	
	SPARE	20/1	37							38	20/1	SPARE	
	SPARE	20/1	39							40	20/1	SPARE	
	SPARE	20/1	41							42	20/1	SPARE	
				1.8	2.5	1.8	3.0	3.0	2.2				
				4.8	5.5	4.0	TOTALS						
				14.3			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **L5/L6/L7** VOLTS 208/120 3PH 4W MAINS: 225A ☐ LUGS ☒ BREAKER COPPER BUS GROUND BAR FED FROM H5
TYPE NQOD ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☐ BOTTOM INTERRUPTING RATING 10000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
R	COPIER	20/1	1	1.0			0.8			2	20/1	STUDY ROOMS – NORTHWEST	R
R	JANITOR, ELEC. RM., ELEV. LOBBY	20/1	3		0.8			0.8		4	20/1	STUDY TABLES – NORTHWEST	R
R	WORK TABLE/COMPUTER – NORTHEAST	20/1	5			0.8			1.2	6	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	7	1.0			1.2			8	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	9		1.2			1.0		10	20/1	GENERAL PURPOSE RECEPTACLES	R
R	GENERAL PURPOSE RECEPTACLES	20/1	11			0.8			0.6	12	20/1	E.D.F. & MECHANICAL ROOM	R
R	GENERAL PURPOSE RECEPTACLES	20/1	13	1.0			0.8			14	20/1	LOUNGE & STUDY TABLES	R
R	TELEPHONE BOARD	20/1	15		0.2			0.8		16	20/1	STUDY TABLES – SOUTHEAST	R
	SPARE	20/1	17						0.7	18	20/1	FAN BOXES – HVAC	H
	SPARE	20/1	19							20	20/1	SPARE	
	SPARE	20/1	21							22	20/1	SPARE	
	SPARE	20/1	23							24	20/1	SPARE	
	SPARE	20/1	25							26	20/1	SPARE	
	SPARE	20/1	27							28	20/1	SPARE	
	SPARE	20/1	29							30	20/1	SPARE	
	SPARE	20/1	31							32	20/1	SPARE	
	SPARE	20/1	33							34	20/1	SPARE	
	SPARE	20/1	35							36	20/1	SPARE	
	SPARE	20/1	37							38	20/1	SPARE	
	SPARE	20/1	39							40	20/1	SPARE	
	SPARE	20/1	41							42	20/1	SPARE	
				3.0	2.2	1.6	2.8	2.6	2.5				
				5.8	4.8	4.1	TOTALS						
				14.7			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **L8** VOLTS 208/120 3PH 4W MAINS: 225A ☐ LUGS ☒ BREAKER COPPER BUS GROUND BAR FED FROM H8
TYPE NQOD ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☐ BOTTOM INTERRUPTING RATING 10000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
R	JANITOR, ELEC. RM., ELEV. LOBBY	20/1	1	0.8			1.0			2	20/1	MICROWAVE RECEPTACLE	R
R	FACULTY READING ROOM	20/1	3		1.2			0.8		4	20/1	REFRIGERATOR	R
R	LOUNGE, LOBBY, READING ROOM	20/1	5			1.2			0.8	6	20/1	KITCHENETTE COUNTER	R
E	FAN BOXES – HVAC	20/1	7	0.5			0.8			8	20/1	KITCHENETTE COUNTER	R
R	DISPOSAL	20/1	9		0.7			1.2		10	20/1	MEETING ROOM – CORRIDOR	R
	NEON LIGHTING	20/1	11			1.7			0.8	12	20/1	MECHANICAL ROOM – CORRIDOR	
E	EXHAUST FAN EF-3	20/1	13	0.9			0.5			14	20/1	ELEVATOR LIGHTS	
R	DUPLEXES – MECHANICAL ROOM	20/1	15		1.0			1.0		16	20/1	ELEVATOR CONTROLS	
R	TELEPHONE BOARD	20/1	17			0.2			2.0	18	20/3	CLOCK TOWER BELL CONTROLS	
R	ROOF RECEPTACLE	20/1	19	0.2			2.0			20	——	CLOCK TOWER BELL CONTROLS	
R	ROOF RECEPTACLE	20/1	21		0.2			2.0		22	——	CLOCK TOWER BELL CONTROLS	
R	ROOF RECEPTACLE	20/1	23			0.2			1.5	24	20/1	CLOCK SYSTEM POWER	E
R	ROOF RECEPTACLE	20/1	25	0.2			1.5			26	20/1	CLOCK TOWER LIGHTS	
R	ROOF RECEPTACLE	20/1	27		0.2			0.2		28	20/1	ROOF RECEPTACLES	R
R	ROOF RECEPTACLE	20/1	29			0.2			0.2	30	20/1	ROOF RECEPTACLES	R
R	PHOTOCELL/CONTACTOR	20/1	31	——						32	20/1	SPARE	
	SPARE	20/1	33							34	20/1	SPARE	
	SPARE	20/1	35							36	20/1	SPARE	
	SPARE	20/1	37							38	20/1	SPARE	
	SPARE	20/1	39							40	20/1	SPARE	
	SPARE	20/1	41							42	20/1	SPARE	
				2.6	3.3	3.5	5.8	5.2	5.3				
				8.4	8.5	8.8	TOTALS						
				25.7			TOTAL CONN. LOAD KVA						

PANELBOARD SCHEDULE

PANEL **HEQ** VOLTS 277/480 3PH 4W MAINS: 225A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM MSB
TYPE NEHB ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☒ TOP ☐ BOTTOM INTERRUPTING RATING 14000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
H	BOILER FEED PUMPS – 2@ 3/4HP	20/3	1	0.8			5.0			2	25/3	BASIN HEATER – TOWER #1	H
			3		0.8			5.0		4			
			5			0.8			5.0	6			
H	BOILER #1 – 3HP	20/3	7	1.4			5.0			8	25/3	BASIN HEATER – TOWER #2	H
			9		1.4			5.0		10			
			11			1.4			5.0	12			
H	BOILER #2	20/3	13	1.4			5.0			14	25/3	BASIN HEATER – TOWER #3	H
			15		1.4			5.0		16			
			17			1.4			5.0	18			
				3.6	3.6	3.6	15.0	15.0	15.0				
				18.6	18.6	18.6	TOTALS						
				55.8			TOTAL CONN. LOAD KVA						

NOTE: PROVIDE 42 CIRCUIT PANEL

DISTRIBUTION EQUIPMENT SCHEDULE

PANEL **MSB** VOLTS 277/480 3PH 4W MAINS: 3000A ☐ LUGS ☒ BREAKER COPPER BUS GROUND BAR FED FROM UTILITY
TYPE QED-II ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☒ BOTTOM INTERRUPTING RATING 65000

BRANCH BREAKERS

ITEM/FEEDER	O.C. DEVICE	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	O.C. DEVICE	ITEM/FEEDER
	200A		8.3			18.6			2	200A	
ATS #1 – PANEL EMDP	3P	1		7.7			18.6			3P	PANEL HEQ
	IK				7.3			18.6		IK	
LIBRARY TOWER BUS DUCT	1600A		218			100			4	600A	
	3P	3		210			100			3P	MOTOR CONTROL CENTER
	PE				206			100		MH	
	400A		60			60			6	400A	
CHILLER #1	3P	5		60			60			3P	CHILLER #2
	IL				7.5			60		IL	
	400A								8	400A	
SPACE	3P	7								3P	SPACE
	PROV									PROV	
	400A								10	400A	
SPACE	3P	9								3P	SPACE
	PROV									PROV	
		11							12		
		13							14		
			286	278	273	179	179	179			
			465	457	452	TOTALS					
			1374			TOTAL CONN. LOAD KVA					

DISTRIBUTION EQUIPMENT SCHEDULE

PANEL **MCC** VOLTS 480 3PH 3W MAINS: 600A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM MSB
TYPE MODEL 5 ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☒ BOTTOM INTERRUPTING RATING 42000

BRANCH BREAKERS

ITEM/FEEDER	O.C. DEVICE	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	O.C. DEVICE	ITEM/FEEDER
COOLING TOWER FAN #1 – 15HP	30A		5.8			3.9			2	30A	CHILLER PUMP CWP #1 – 10HP
2 – SPEED STARTER	30-K5	1		5.8			3.9			20-K5	
1" – W/6–#10, 1–#10GR	SIZE2				5.8			3.9		SIZE1	3/4" W/3–#12, 1–#12 GR
COOLING TOWER FAN #2 – 15HP	30A		5.8			3.9			4	30A	CHILLER PUMP CWP #2 – 10HP
2 – SPEED STARTER	30-K5	3		5.8			3.9			20-K5	
1"– W/6–#10, 1–#10GR	SIZE2				5.8			3.9		SIZE1	3/4" W/3–#12, 1–#12 GR
COOLING TOWER FAN #3 – 20HP	60A		7.5			3.9			6	30A	CHILLER PUMP CWP #3 – 10HP
2 – SPEED STARTER	40-K5	5		7.5			3.9			20-K5	
1 ¼" W/6–#8, 1–#10GR	SIZE2				7.5			3.9		SIZE1	3/4" W/3–#12, 1–#12 GR
COND. PUMP #1 – 25HP	60A		9.5			21.4			8	100A	CHILLER PUMP CWP #4 – 60HP
	50-K5	7		9.5			21.4			100-K5	
1" W/3–#8, 1–#10 GR	SIZE2				9.5			21.4		SIZE4	1.25" W/3–#2, 1–#8 GR
COND. PUMP #2 – 25HP	60A		9.5			21.4			10	100A	CHILLER PUMP CWP #5 – 60HP
	50-K5	9		9.5			21.4			100-K5	
1" W/3–#8, 1–#10 GR	SIZE2				9.5			21.4		SIZE4	1.25" W/3–#2, 1–#8 GR
COND. PUMP #3 – 20HP	60A		7.5						12		
	40-K5	11		7.5							
1" W/3–#8, 1–#10GR	SIZE2				7.5						
		13							14		
			45.6	45.6	45.6	54.5	54.5	54.5			
			100	100	100	TOTALS					
			300			TOTAL CONN. LOAD KVA					

DISTRIBUTION EQUIPMENT SCHEDULE

PANEL **EMDP** VOLTS 277/480 3PH 4W MAINS: 200A ☐ LUGS ☒ BREAKER COPPER BUS GROUND BAR FED FROM ATS
TYPE HCN ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☒ BOTTOM INTERRUPTING RATING

BRANCH BREAKERS

ITEM/FEEDER	O.C. DEVICE	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	O.C. DEVICE	ITEM/FEEDER
	200A		9.8			14.2			2	70A	
PANELS E1, E2, E3, & E4	KA	1		9.2			14.2			KA	ELEVATOR #1 (42.4 KVA)
	3P				7.3			14.2		3P	
MECHANICAL ROOM LIGHTING	20A								4	200A	
	FA	3			2.1					3P	SPACE
	~~10~~									PROV	
									6		
		7							8		
		9							10		
		11							12		
		13							14		
			9.8	9.2	9.4	14.2	14.2	14.2			
			24.0	23.4	23.6	TOTALS					
			71.0			TOTAL CONN. LOAD KVA					

DRAWINGS, SHEET E-28
Panel EMDP, Circuit #3, O.C. Device should read "20A, FA, 1P" rather than 20A, FA, 10.

PANELBOARD SCHEDULE

PANEL **HEQ** VOLTS 208/120 3PH 4W MAINS: 100A ☒ LUGS ☐ BREAKER COPPER BUS GROUND BAR FED FROM EXIST
TYPE NQOD ☐ FLUSH MTD. ☒ SURFACE MTD. FEEDER: ☐ TOP ☐ BOTTOM INTERRUPTING RATING 10000

BRANCH BREAKERS

	ITEM	CKT. BRKR.	CKT. NO.	LOAD(KVA) A	B	C	LOAD(KVA) A	B	C	CKT. NO.	CKT. BRKR.	ITEM	
R	EQPT ROOM RECEPTACLES	20/1	1	0.8			1.2			2	20/1	BOILER #1 CONTROLS	H
R	EQPT ROOM RECEPTACLES	20/1	3		0.6			1.2		4	20/1	BOILER #2 CONTROLS	H
H	UNIT HEATER	20/1	5			0.3			1.2	6	20/1	SUMP PUMP	E
	TUNNEL LIGHTS	20/1	7	0.9			1.0			8	20/2	GENERATOR BLOCK HEATER	E
E	HEAT TAPE – COOLING TOWER	20/1	9		1.2			1.0		10	——	GENERATOR BLOCK HEATER	E
E	HEAT TAPE – COOLING TOWER	20/1	11			1.2				12	20/1	SPARE	
E	HEAT TAPE – COOLING TOWER	20/1	13	1.2						14	20/1	SPARE	
	SPARE	20/1	15							16	20/1	SPARE	
	SPARE	20/1	17							18	20/1	SPARE	
				2.9	1.8	1.5	2.2	2.2	1.2				
				5.1	4.0	2.7	TOTALS						
				12.1			TOTAL CONN. LOAD KVA						

NOTE: PROVIDE 24 CIRCUIT PANEL

ADDITIONS AND ALTERATIONS TO
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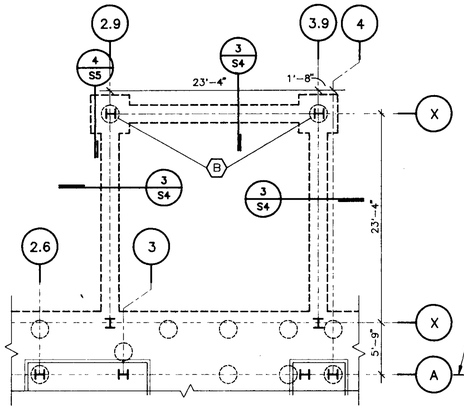
Brackett Krennerich and Associates PA
Architects Engineers Planners

COMM. NO. 11990
E28
DATE: SEPT. 15, 1991

BRUNING 40-8020 121691



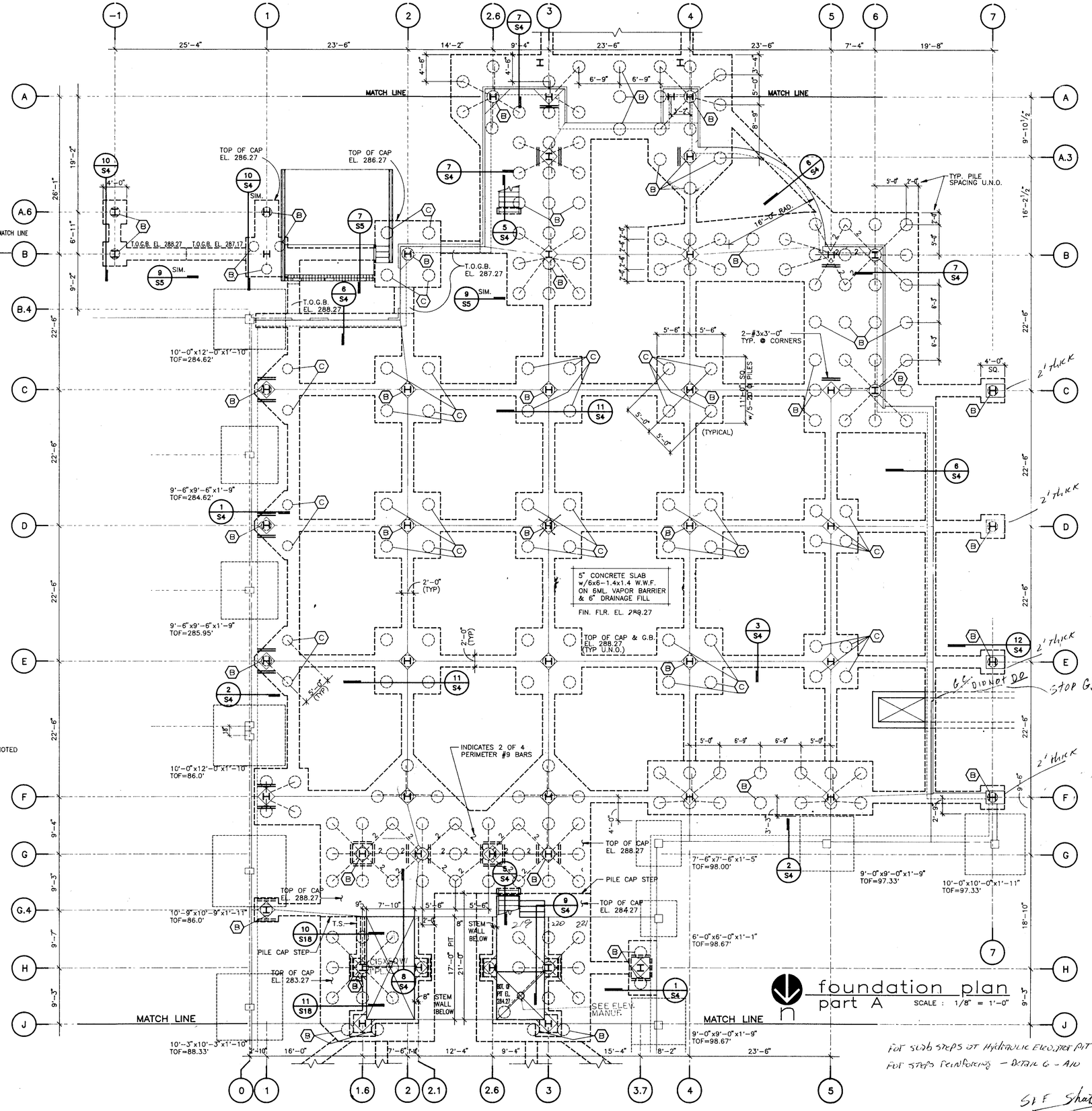
GENERAL NOTES

1. DESIGN LOADS PER 1991 STANDARD BUILDING CODE:
   ROOF LIVE LOADS–20 PSF
   FLOOR LIVE LOADS–125 PSF (LIBRARY FLOOR)
   SIESMIC ZONE 3
2. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL TEST AT A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS (SEE SPECIFICATIONS FOR MASS CONCRETE)
3. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615.
4. UNLESS OTHERWISE NOTED, LAP SPLICES, OR EMBEDMENT LENGTH SHALL CONFORM TO 40 BAR DIAMETER.
5. UNLESS OTHERWISE NOTED, CONCRETE COVER OVER STEEL REINFORCEMENT SHALL CONFORM TO THE MINIMUMS REQUIRED BY CURRENT EDITION OF ACT 318.
6. REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO ACI 318 AND ACI 315, EXCEPT WHERE OTHERWISE INDICATED.
7. CONSTRUCTION JOINTS (C.J.) SHALL BE PLACED AS SHOWN ON FOUNDATION PLANS THRU SLABS.

FOUNDATION NOTES

1. FOUNDATION SYSTEM SHALL BE 45' AUGER CAST PILES AT 120 TON CAPACITY EACH WITH 4'–0" PILE CAP TIED TO ONE ANOTHER WITH GRADE BEAMS.
2. PERFORM ONE (1) TENSION PILE TEST AND ONE (1) COMPRESSION PILE TEST AS RECOMMENDED IN THE SOILS REPORT.
3. PLACE 6" CAPILLARY WATER BARRIER AND VAPOR BARRIER UNDER ALL SLABS, EXCEPT AS OTHERWISE NOTED.
4. ALL FILL PLACED UNDER BUILDING SLABS SHALL BE NON–EXPANSIVE AND SHALL BE COMPACTED AS RECOMMENDED IN SOILS REPORT.

NOTE ALL PILES TYPE "A" UNLESS NOTED OTHERWISE ON PLAN
SEE AUGER CAST PILE SCHEDULE ON S-5



STRUCTURAL ENGINEER:
Engineering Consultants Inc.
REGISTERED PROFESSIONAL ENGINEER ARKANSAS ENGINEERING CONSULTANTS NO. 26 CORPORATE REGISTRATION

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COMM. NO. 11990
S1
DATE: SEPT. 15, 1991

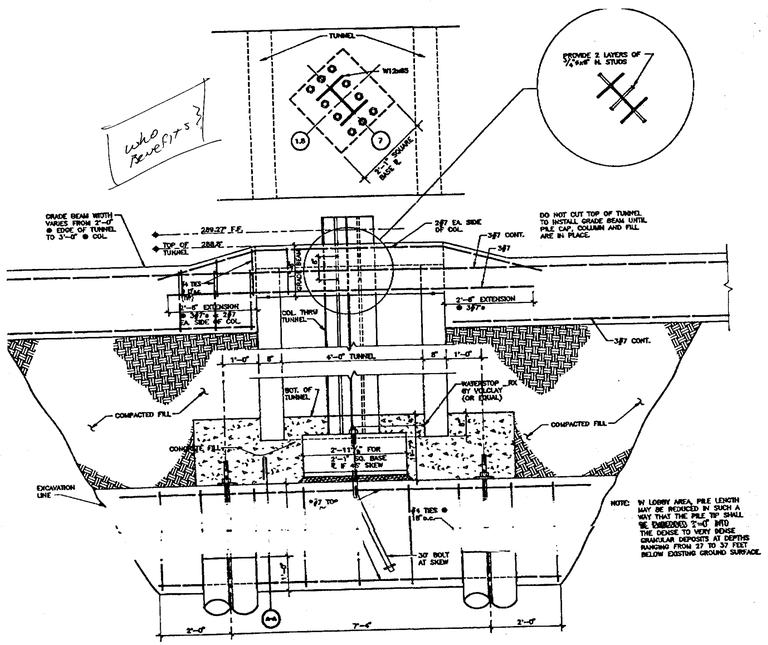
Working Engineering Plans

FOR SLAB STEPS AT HYDRAULIC ELEV. STEP PIT – DETAIL C-455
FOR STEPS REINFORCING – DETAIL G – A/D

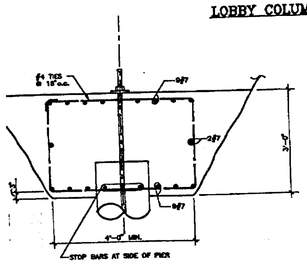
S & F Sheet 2 D
F. Bolts.

376 3752

BRUNING 40-5020 12/1991



LOBBY COLUMN THRU UTILITY TUNNEL



SECTION "A-A"

Rec. 5/13/1992

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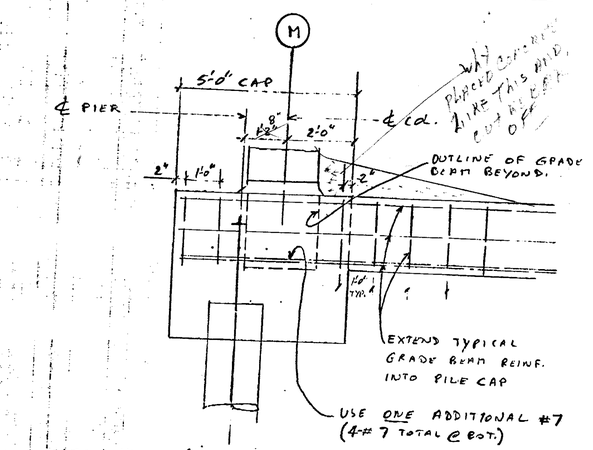
ENGINEERING CONSULTANTS INC.

SCALE: 3/8"=1'-0"	REVISION
DATE: 4-2-92	DRAWING #1

ENGINEERING CONSULTANTS, INC. By T.P. Date Sheet No. 1/1

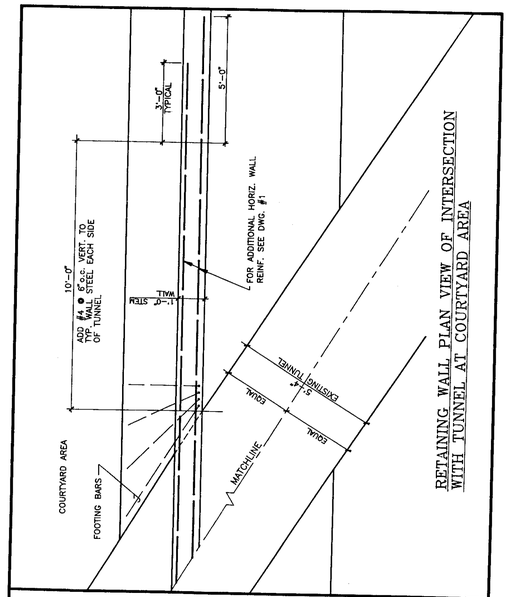
Subject GRID (M) (2.8) Chkd. By Job A.S.U. LIBRARY

Allowable stresses- Fy fs fc



NEW PCS (SEE LOFLAND DWG.)
USE 10-#7 x 4'-6" BOTTOM & 18 #7 x 4'-6" TOP (½ EACH WAY).

NEW PILE CAP AND GRADE BEAM REINF. AT GRID (M) (2.8)



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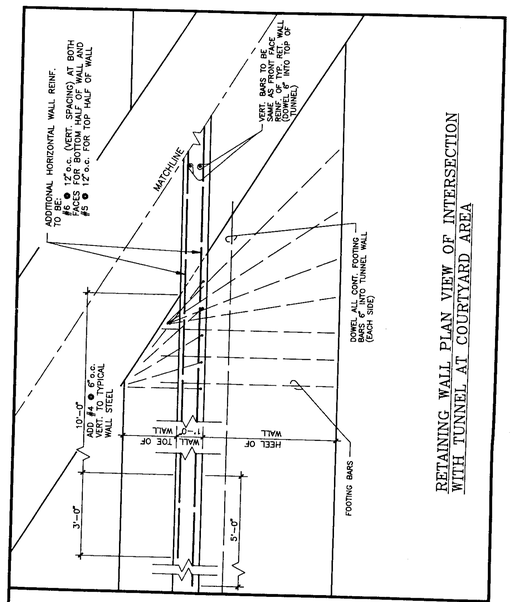
ENGINEERING CONSULTANTS INC.

SCALE: 3/8"=1'-0"	REVISION
DATE: 4-2-92	DRAWING #2



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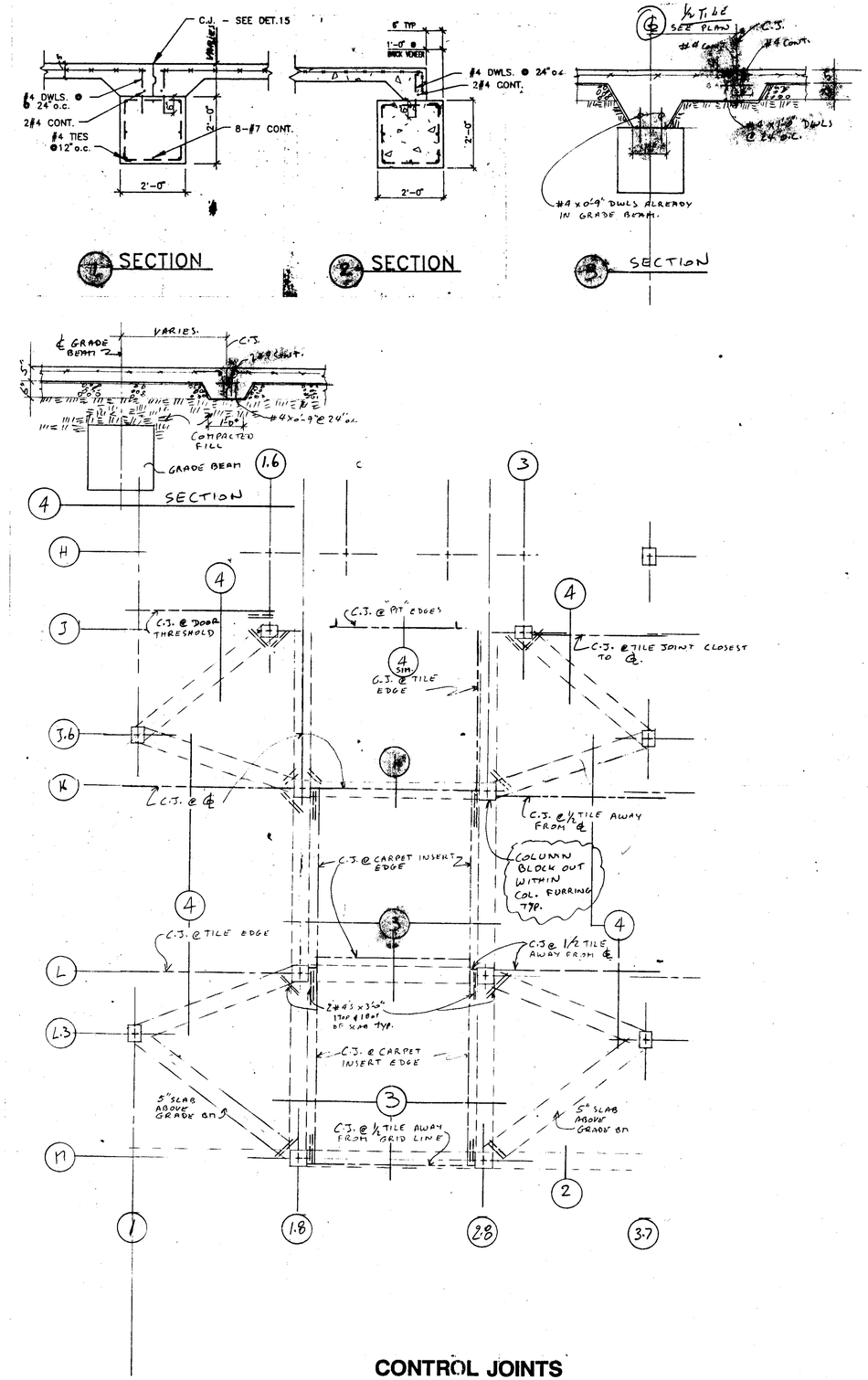
SCALE: 3/8"=1'-0"	REVISION
DATE: 4-2-92	DRAWING #1



CONTROL JOINTS

CLARIFICATION PLAN

first floor plan
part B SCALE: 1/8" = 1'-0"

SEE A15 FOR TILE LOCATION PLAN

COORDINATE WITH "LOFLAND" "SLAB CONSTRUCTION JOINT LAYOUT" SHEET No 6.

D.J.C.
Rec. 6/25/92
FROM GEORGE K, AT JOBSITE

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STRUCTURAL ENGINEER:
Engineering Consultants Inc.

Brackett Krennerich and Associates P.A.

COMM. NO. 11990
82
DATE: SEPT. 16, 1991

Architects Engineers Planners

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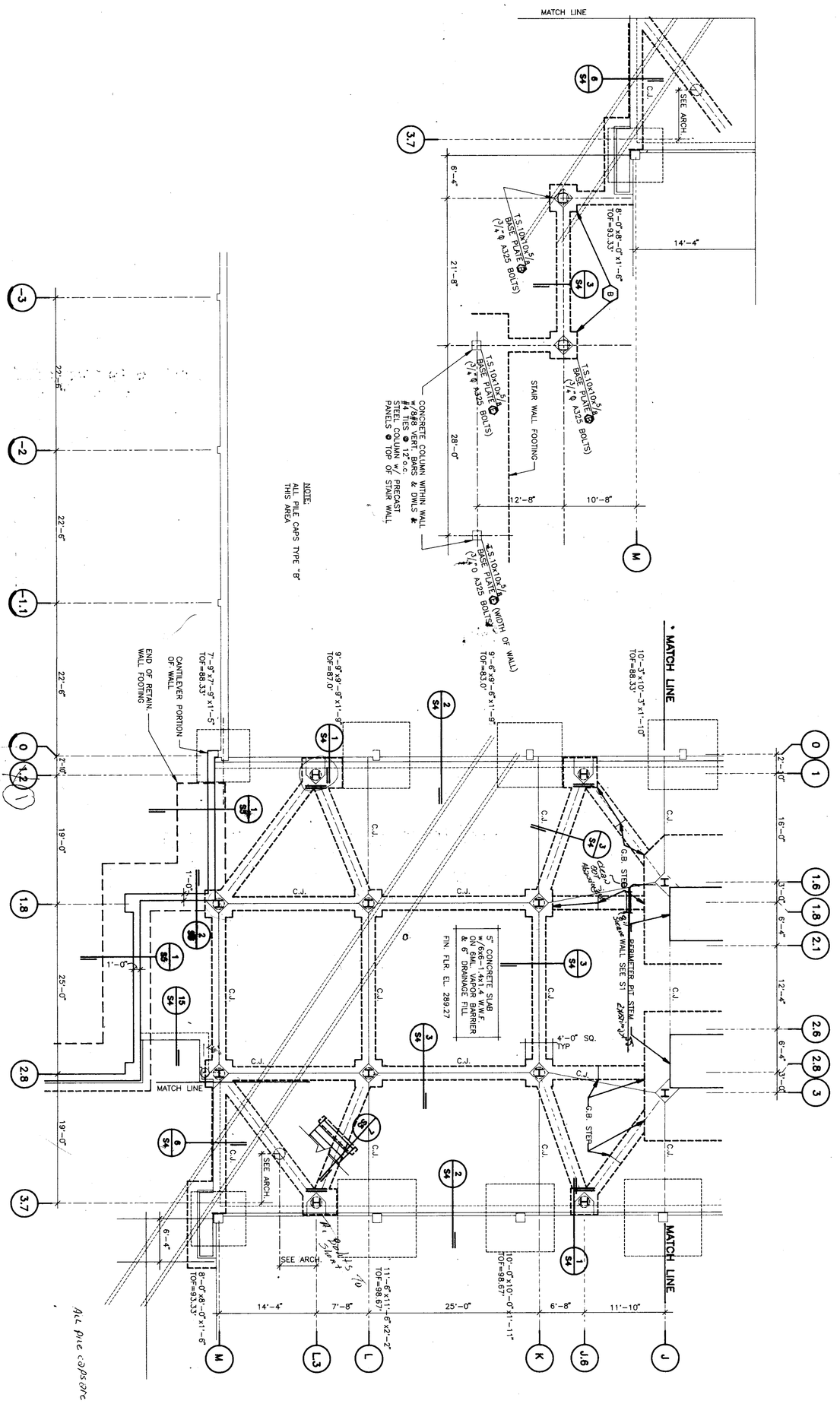

foundation plan part B

SCALE : 1/8" = 1'-0"

21. DRAWINGS, SHEET S-2
   A. All pile caps are 4'-0" thick.
   B. Columns 3.7, J.6 and L.3 are W12X65 with base plate E. Columns 1.2, J.6 and L.3 are W12X65 with base plate E.
   C. W 12"x8" stab reinforcing is 1-1/2" from top of slab.
   D. W 18"x8" stab reinforcing is 1-1/2" from top of stairs.
   E. Change Grid 1.2 to Grid 1.
   F. For extent of high retaining wall at courtyard, see Architectural Drawings.

All pile caps are 4'-0" thick

COMM. NO. 11990
S2
DATE: SEPT. 15, 1999

Brackett Krennerich and Associates PA

CORPORATE REGISTRATION ENGINEERING CONSULTANTS, INC. NO. 26 ARKANSAS - ENGINEER

STRUCTURAL ENGINEER:
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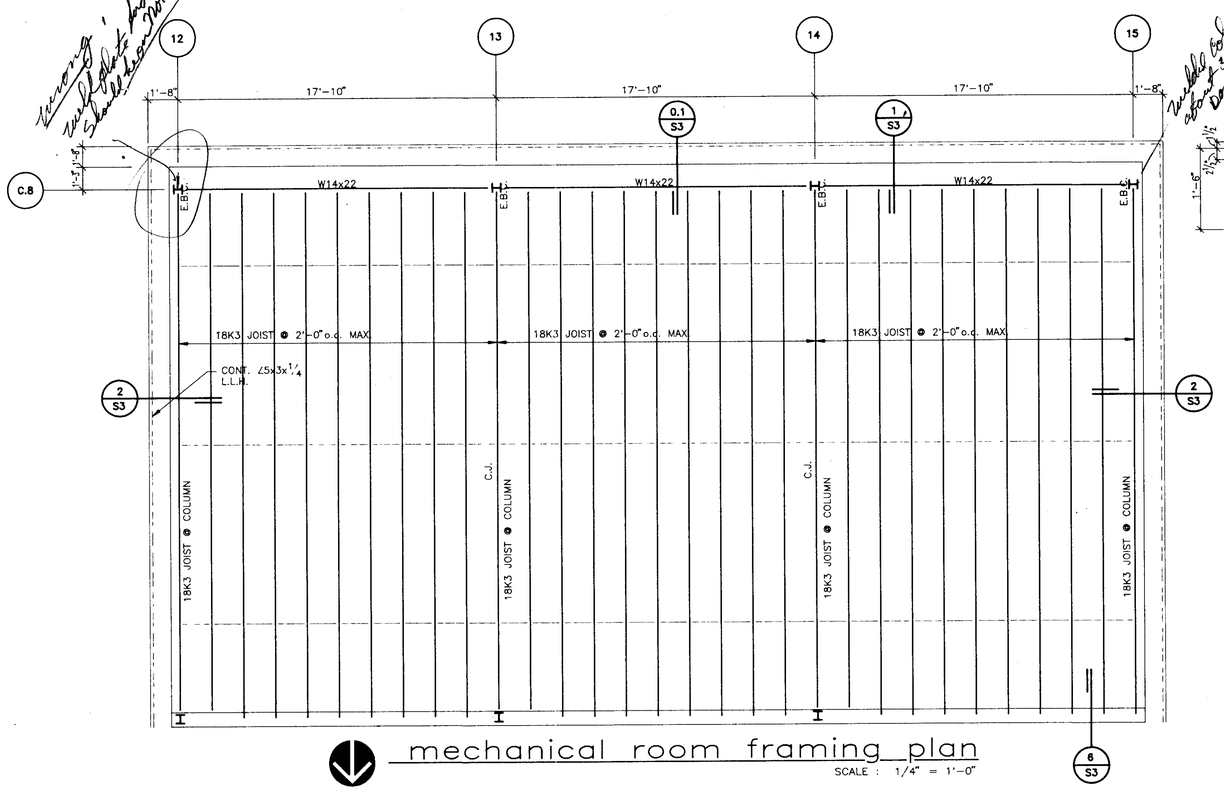
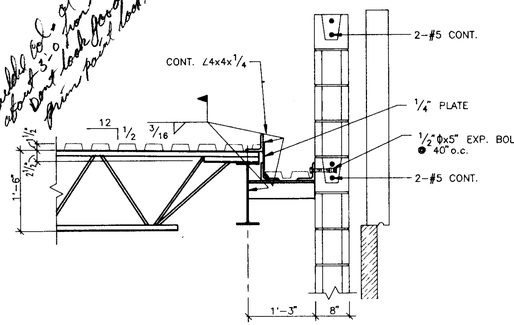
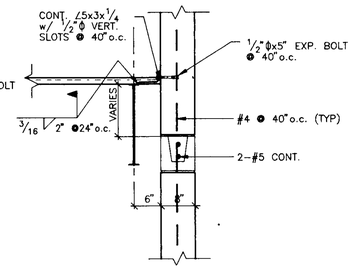


mechanical room framing plan

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





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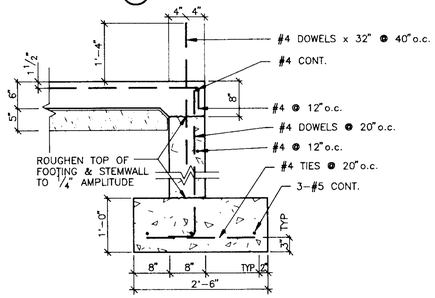

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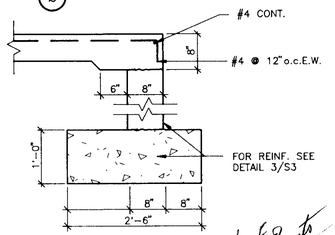

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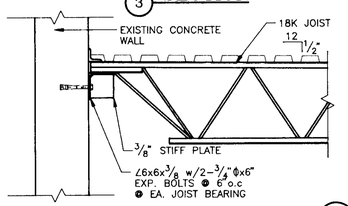
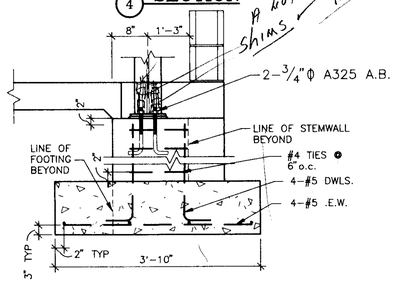


6 SECTION

4 SECTION



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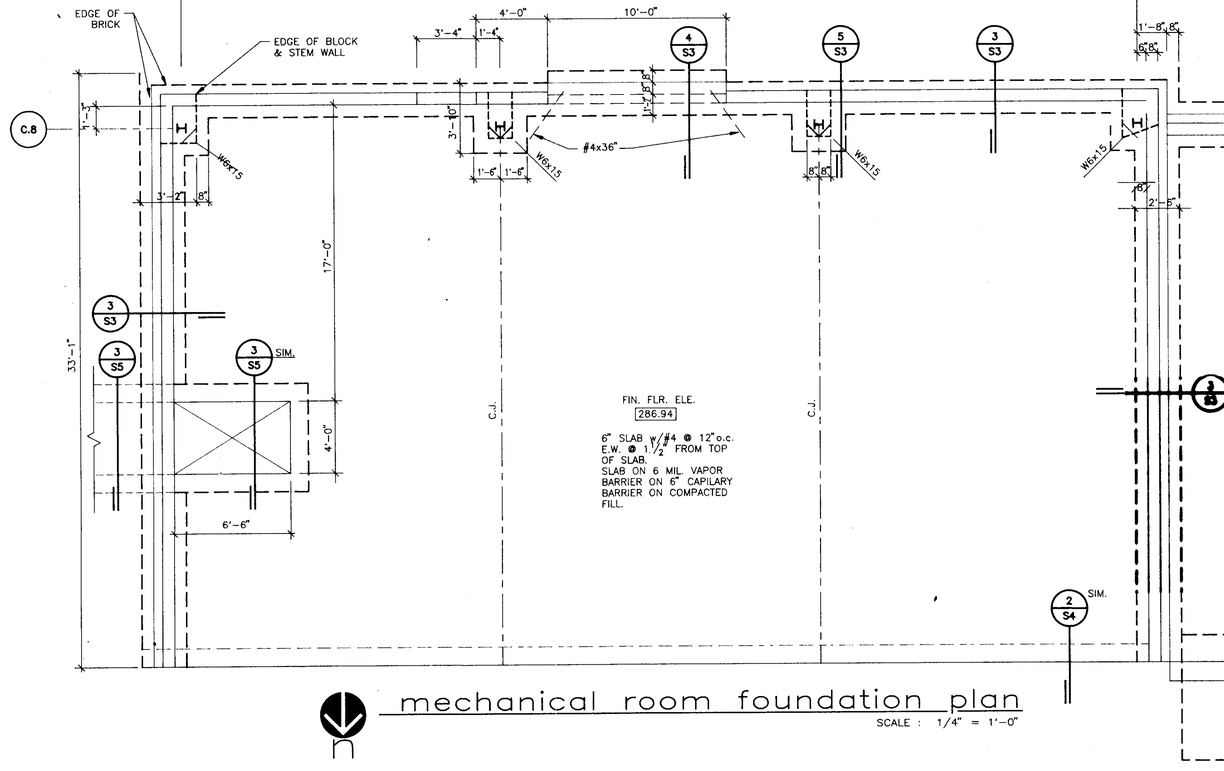

mechanical room foundation plan

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

MASONRY WALL REINFORCING NOTES:

A. #5 VERTICAL IN GROUTED CELLS @ 40" o.c.

B. #5 VERTICAL IN GROUTED CELLS AT EVERY CORNER, END OF WALL, INTERSECTION, AND JAMBS.

C. 2-#4 HORIZONTAL LINTEL BARS AT HEAD OF EVERY OPENING IN WALL.

D. 2-#4 HORIZONTAL SILL BARS BELOW EVERY WINDOW AND MECHANICAL OPENING.

E. (R) WIRE TRUSS TYPE HORIZONTAL JOINT REINFORCING @ 16" o.c. (VERTICALLY)

22. DRAWINGS, SHEET S-3

A. Section 0.1 - Provide W8X24 lintels with 1/4" bottom plate brick shelf with 1/4" X 1" straps at 32" on center, from 1/4" plate shelf to top flange of W8. (NOTE: Use this lintel at all overhead doors.) Use 1/2" X 6" X 12" bearing plates with two (2) 3/4" X 4" studs each.

B. On Section O "Mechanical Room Foundation Plan" at equipment yard, use Section 3 at south wall; use Section 6, Sheet S5 at west wall.

C. Use top of footing EL. 284.94 at Sections 3 and 5 Sheet S5 for estimating purposes; final elevation to be determined in field by soils engineer.

D. Masonry wall at Mechanical Room will be reinforced with #4 at 32" on center. Masonry walls at equipment yard will be reinforced with #5 at 40" on center (NOTE: Use #4 at 32" on center at all building masonry block walls).

FIN. FLR. ELE. 286.94

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Brackett Krennerich and Associates PA

Architects Engineers Planners

COMM. NO. 11990

S3

DATE: SEPT. 15, 1991

BRUNING 40-5020 32181

1 SECTION

2 SECTION

3 SECTION

4 SECTION

5 SECTION

6 SECTION

7 SECTION

8 SECTION

9 SECTION

10 SECTION

REBAR NOTE:
WHERE PILE CAP IS USED IN 2 BRACE DIRECTION, USE SMALLER BAR SPACING IN BOTH DIRECTIONS

11 SECTION

12 SECTION

13 SECTION

14 SECTION

15 CONTROL JOINT DETAIL
N.T.S.

23. **DRAWINGS, SHEET S-4**
   - A. Void Section 13.
   - B. Replace 8'-6" dimension at Detail 11 with "See Plan".
   - C. Replace "Pile Cap Depth, See Pile Cap Schedule" at Detail 16 with 4'-0" dimension.
   - D. Top of footing elevation at Details 4 and 14 is 1'-6" below exterior finish grade and into controlled compacted fill or undisturbed soil (final grade to be determined by soils engineer).

16 SECTION

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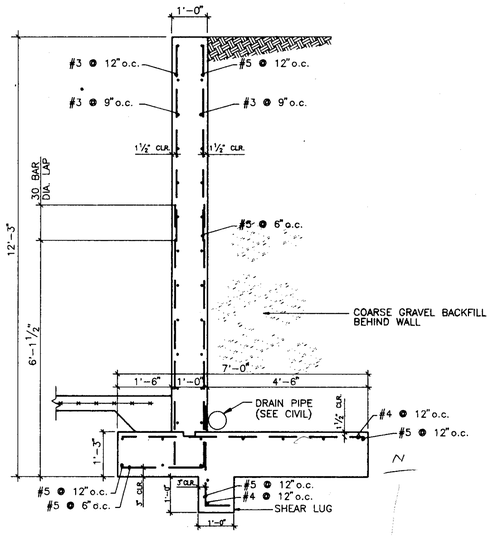
COMM. NO. 11880
84
DATE: SEPT. 15, 1991

BRUNING 40-5020 321891



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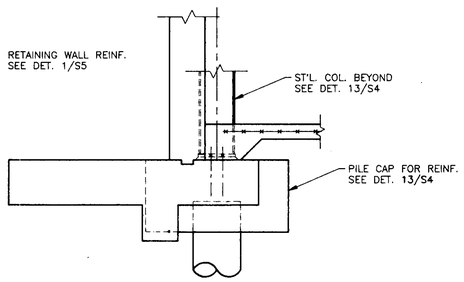

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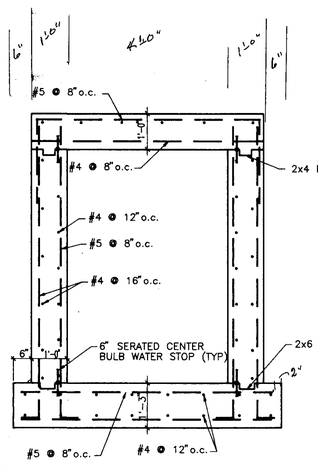

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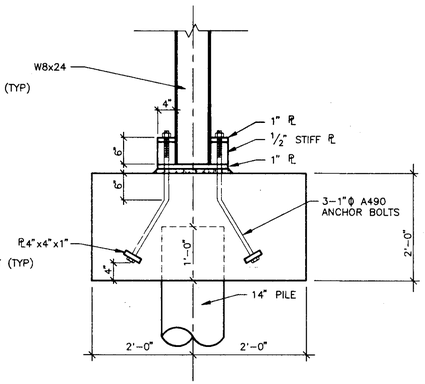

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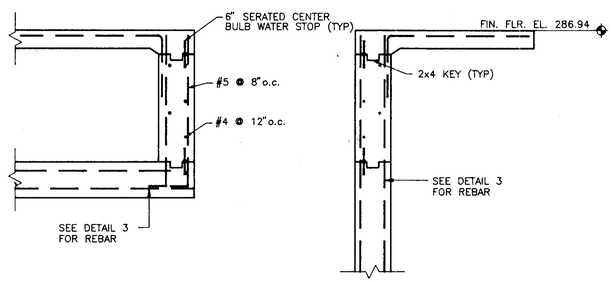
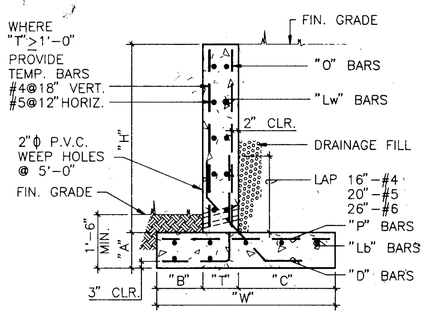
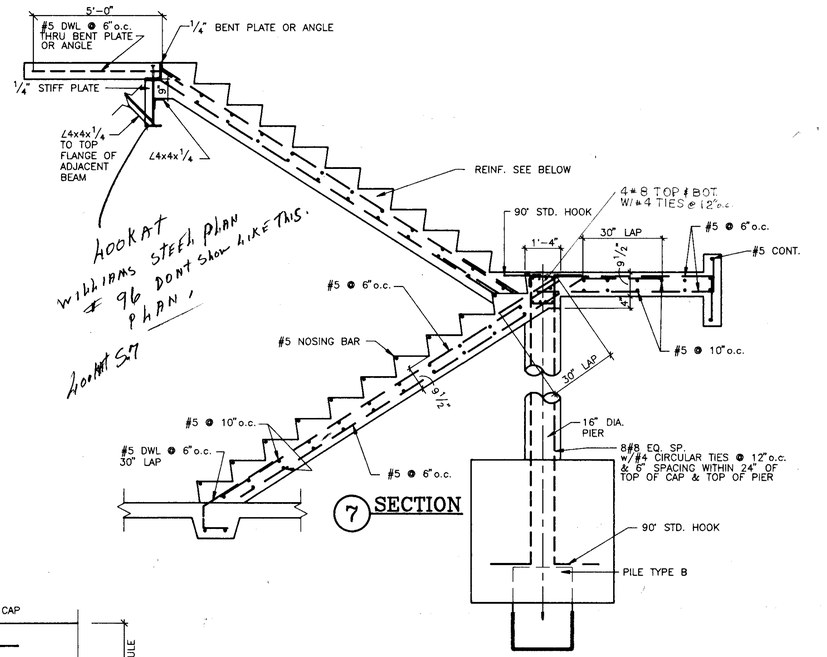


5 SECTION

RETAINING WALL SCHEDULE											
H	T	B	C	W	A	"O" BARS	"D" BARS	"LS" BARS	"P" BARS	"Lb" BARS
UP TO 4'-0"	1'-0"	5"	2'-2"	3'-3"	1'-0"	#4@18"	#4@18"	4-#4's	#4@18"	#4@12"
5'-0"	1'-0"	7"	3'-0"	4'-3"	1'-0"	#4@18"	#4@18"	4-#5's	#4@18"	#4@12"
6'-0"	1'-0"	10"	3'-9"	5'-3"	1'-0"	#4@16"	#4@16"	5-#5's	#4@16"	#4@12"
7'-0"	1'-0"	1'-4"	4'-9"	6'-9"	1'-0"	#5@15"	#4@15"	5-#5's	#4@15"	#4@12"
8'-0"	1'-0"	1'-6"	5'-0"	7'-6"	1'-3"	#5@12"	#4@12"	6-#5's	#4@12"	#5@12"



6 TYP. RETAINING WALL



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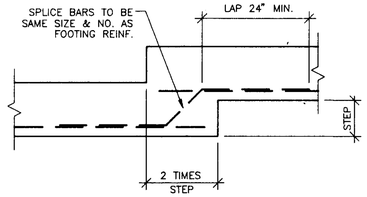
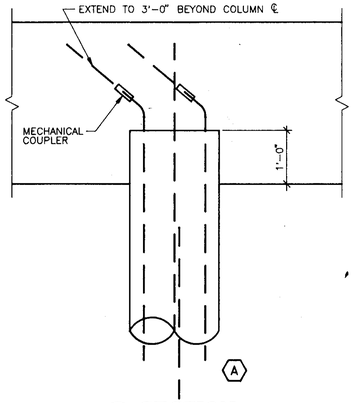


8 TYP CONTINUOUS GRADE BEAM OR FOOTING STEP DETAIL
N.T.S.



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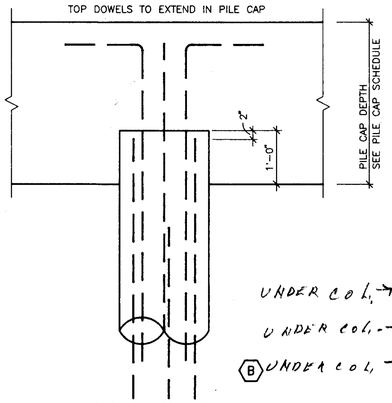


12 SECTION

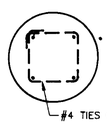
24. DRAWINGS, SHEET S-2
A. Pile type B at Detail 7 is 20'-0" deep with 4'-0" deep pile cap.
B. Replace "Pile Cap Depth, See Pile Cap Schedule" at Detail 12 with 4'-0" dimension.
C. Detail 4 - Use 14" diameter pile at Grids X-2.9 and X-3.9 only.
D. Details 9 and 10 - Pile Sections have 3" clear to rebars.
E. Detail 2 - Replace "Pile Cap Reinforcing" - at Detail 13/S-4 with 4'-0" Deep Pile Cap. Also replace "Steel Column Beyond See Detail 13/S-4" with "See Column Schedule on S-20".

~~ADDED~~ CAP PILE SCHEDULE				
PILE TYPE	PILE SIZE INCHES ø	FULL HEIGHT REINFORCING	ADDITIONAL TOP 18' REINFORCING	TOP BARS TO EXTEND INTO PILE CAP
A	~~20~~ 18"	1¼ ~~#18~~ GRADE 150 DWL@BAR	~~#9~~ @ CENTER	CENTER IN STRAIGHT PERIMETER #9 w/ MECHANICAL COUPLER
B	~~20~~ 18"	1" ~~#18~~ GRADE 150 DWL@BARS	~~#9~~ @ CENTER	CENTER IN STRAIGHT PERIMETER #9 w/ 90° STD HOOK
C	~~20~~ 18"	1" ~~#18~~ GRADE 150 DWL@BAR	~~#9~~ STRAIGHT	B&C, PILES AWAY FROM COLUMNS.

UNDER COL. → A — TAPE "A" PILES AWAY FROM COLUMNS
UNDER COL. → B
(B) UNDER COL. → C

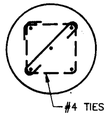
SEE REVISED SHEET 1 OF 4. 1/29/1992 BARCUS & SON.
B&C, COL. " " " PAGE 5 ??

FULL HEIGHT REINFORCING



9 SECTION

ADDITIONAL TOP 18' REINFORCING



10 SECTION

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DATE: SEPT. 15, 1991

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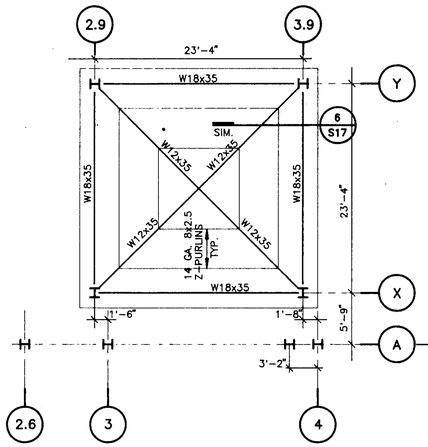

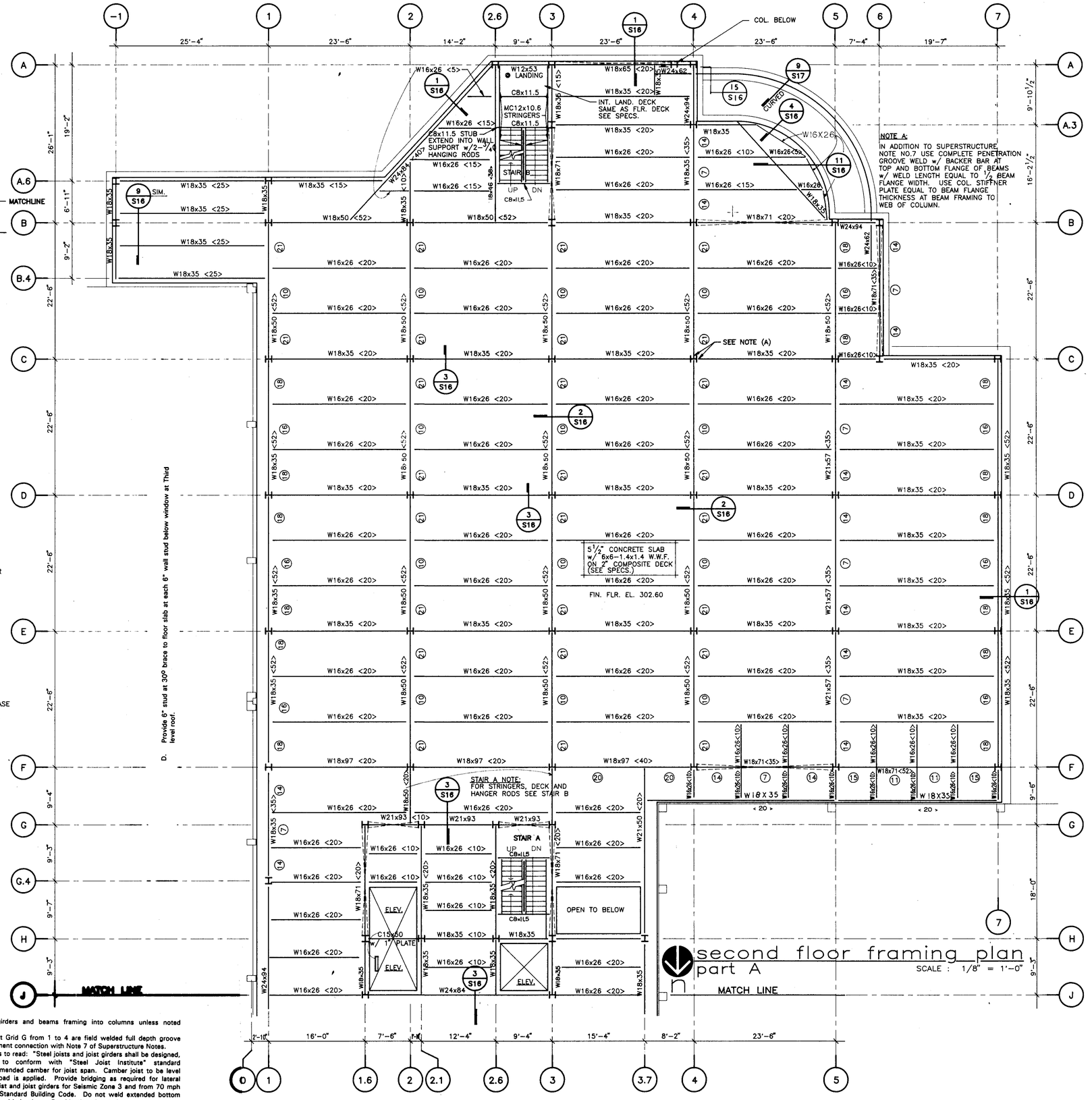
MATCHLINE
A
A.6
B
B.4
C
D
E
F
G
G.4
H
J
MATCH LINE
-1
1
2
2.6
3
4
5
6
7
25'-4"
23'-6"
14'-2"
9'-4"
23'-6"
23'-6"
7'-4"
19'-7"
26'-1"
19'-2"
6'-11"
9'-2"
22'-6"
22'-6"
22'-6"
22'-6"
9'-4"
9'-3"
9'-7"
9'-3"
9'-10½"
16'-2½"
22'-6"
9'-6"
18'-0"
9'-3"
COL. BELOW
W12x53 LANDING
C8x11.5
MC12x10.6 STRINGERS
C8x11.5
INT. LAND. DECK SAME AS FLR. DECK SEE SPECS.
C8x11.5 STUB EXTEND INTO WALL SUPPORT w/2-7/8" HANGING RODS
STAIR B
UP
DN
C8x11.5
W16x26 <5>
W16x26 <15>
W18x65 <20>
W18x35 <20>
W16x26 <20>
W18x35 <25>
W18x50 <52>
W18x71 <20>
W18x71 <35>
W24x94
W24x62
W24x84
W16x26 <10>
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W21x50 <20>
W21x57 <35>
W18x71 <52>
W16x26<10>
W16x26<52>
W16x26<52>
W16x26<10>
W16x26<10>
W16x26

26. DRAWINGS, SHEET S-7

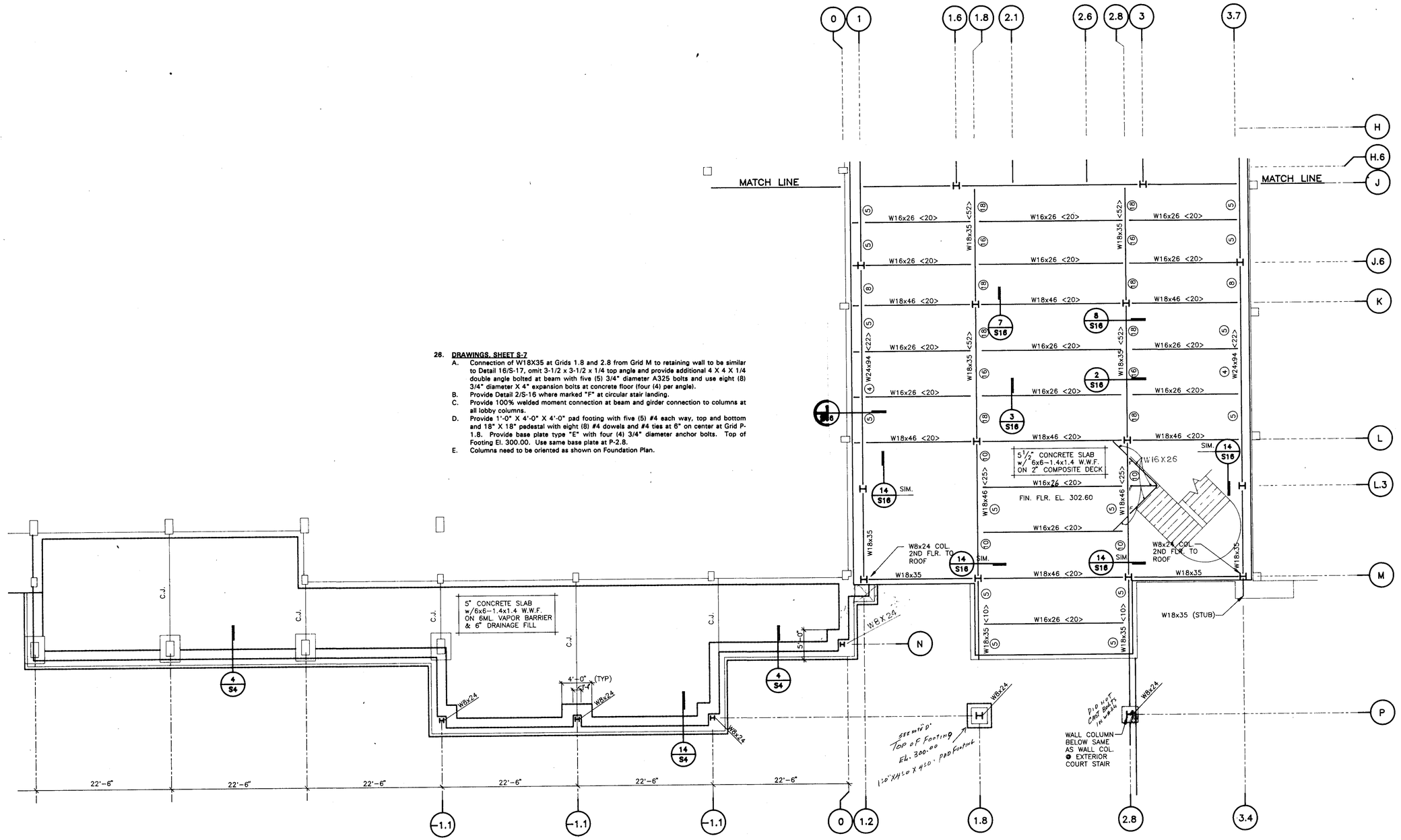
A. Connection of W18X35 at Grids 1.8 and 2.8 from Grid M to retaining wall to be similar to Detail 16/S-17, omit 3-1/2 x 3-1/2 x 1/4 top angle and provide additional 4 X 4 X 1/4 double angle bolted at beam with five (5) 3/4" diameter A325 bolts and use eight (8) 3/4" diameter X 4" expansion bolts at concrete floor (four (4) per angle).

B. Provide Detail 2/S-16 where marked "F" at circular stair landing.

C. Provide 100% welded moment connection at beam and girder connection to columns at all lobby columns.

D. Provide 1'-0" X 4'-0" X 4'-0" pad footing with five (5) #4 each way, top and bottom and 18" X 18" pedestal with eight (8) #4 dowels and #4 ties at 6" on center at Grid P-1.8. Provide base plate type "E" with four (4) 3/4" diameter anchor bolts. Top of Footing El. 300.00. Use same base plate at P-2.8.

E. Columns need to be oriented as shown on Foundation Plan.



second floor framing plan part B

SCALE : 1/8" = 1'-0"

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S6

DATE: SEPT. 15, 1989

NOTE A:
IN ADDITION TO SUPERSTRUCTURE NOTE NO.7 USE COMPLETE PENETRATION GROOVE WELD w/ BACKER BAR AT TOP AND BOTTOM FLANGE OF BEAMS w/ WELD LENGTH EQUAL TO 1/4" BEAM FLANGE WIDTH. USE COL. STIFFNER PLATE EQUAL TO BEAM FLANGE THICKNESS AT BEAM FRAMING TO WEB OF COLUMN.

NOTE:
PROVIDE 1/4" PLATE SHELF AT PERIMETER BEAM OF ELEV. AND STAIR CHASES FOR FIRE WALL SUPPORT. (TYP ALL LEVELS)

third floor framing plan part A

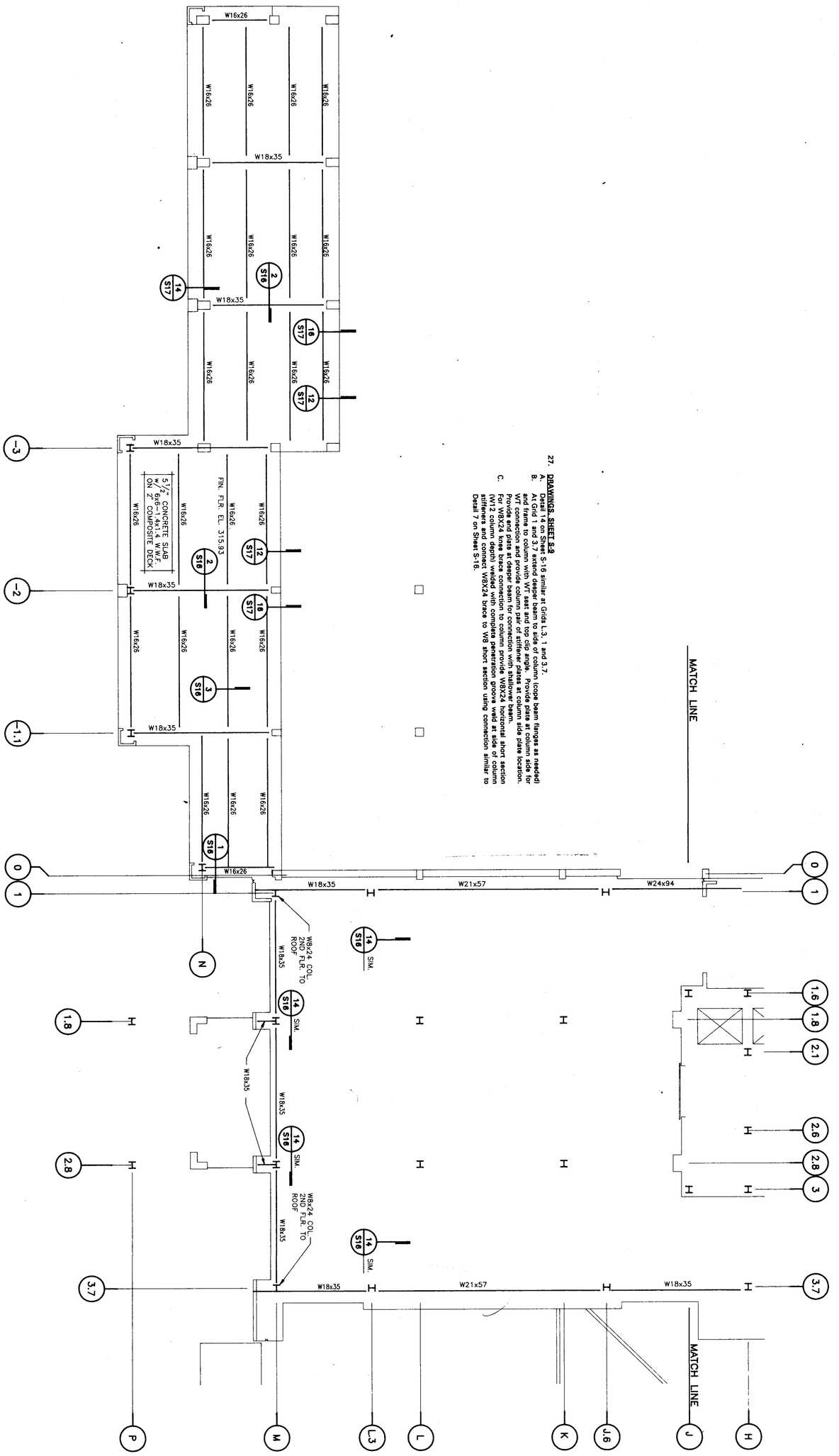
SCALE : 1/8" = 1'-0"

MATCH LINE

MATCH LINE

STRUNING, 40-0000 321991

BRUNING. 42-5020 321891



27. **DRAWINGS - SHEET S-9**
A. Typical detail on Sheet S-16 similar at Grids L.3, 1 and 3.7.
B. At Grid 1 and 3.7 extend deeper beam to side of column (cope beam flanges as needed) and frame to column with VFT seat and top clip angle. Provide plate at column side for VFT connection and provide column for connection with shallower beam. Provide plate at column side for connection with shallower beam.
C. For W8X24 knee brace connection to column provide W8X24 horizontal short section (W12 column depth welded with complete penetration groove weld at side of column stiffeners and connect W8X24 brace to W8 short section using connection similar to Detail 7 on Sheet S-16.

third floor framing plan
part b

SCALE: 1/8" = 1'-0"

CONTRACT NO. 11980
S9
DATED: SEPT. 15, 1981

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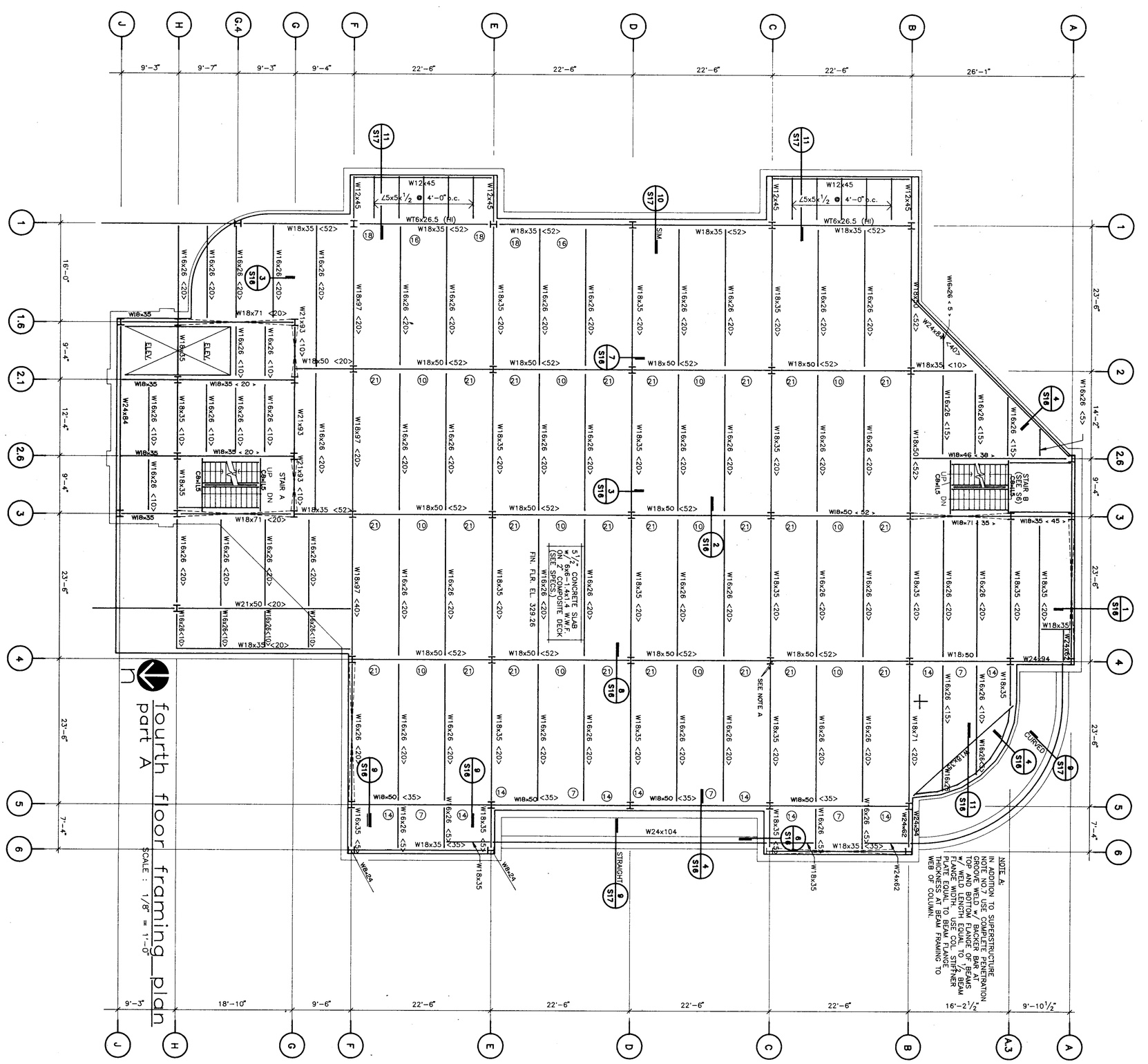

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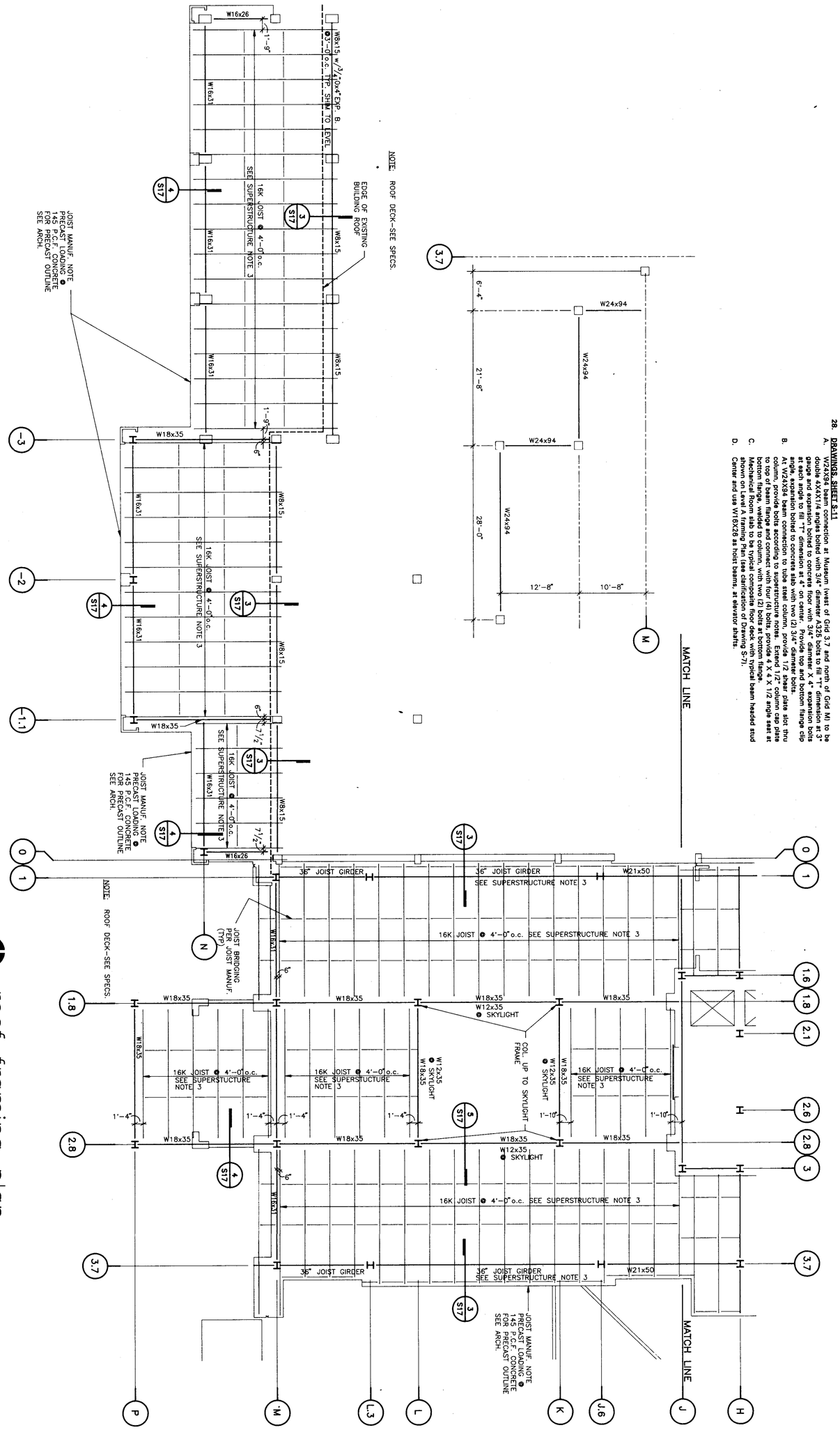

roof framing plan part B

SCALE: 1/8" = 1'-0"

28. **DRAWINGS, SHEET S-11**

A. W24X94 beam connection at Museum (west of Grid 3.7 and north of Grid M) to be double angle connection (2) 6"x4"x1/2" angles with 7" dimension at top and bottom flange, double end connection bolted to concrete floor with 3/4" diameter X 4" expansion bolts at each angle to fill "T" dimension at 4" on center. Provide top and bottom flange clip angle, expansion bolted to concrete slab with two (2) 3/4" diameter bolts.

B. At W24X94 beam connection to tube steel column, provide 7" plate beam stub thru to column, provide top and bottom flange clip angle, expansion bolted to concrete slab with two (2) 3/4" diameter bolts. At tube steel column, provide 7" x 7" x 1/2" column cap plate to top of beam flange and connect with four (4) bolts; provide 4 X 4 X 1/2 angle seat at bottom flange, welded to column, with two (2) bolts at bottom flange.

C. Mechanical Room slab to be typical composite floor deck with typical beam headed stud shear connectors (reference S-7).

D. Center and use W16X26 at hoist beams, at elevator shafts.

S11
DATE: SEPT. 15, 1997
CONTRACT NO. 11980

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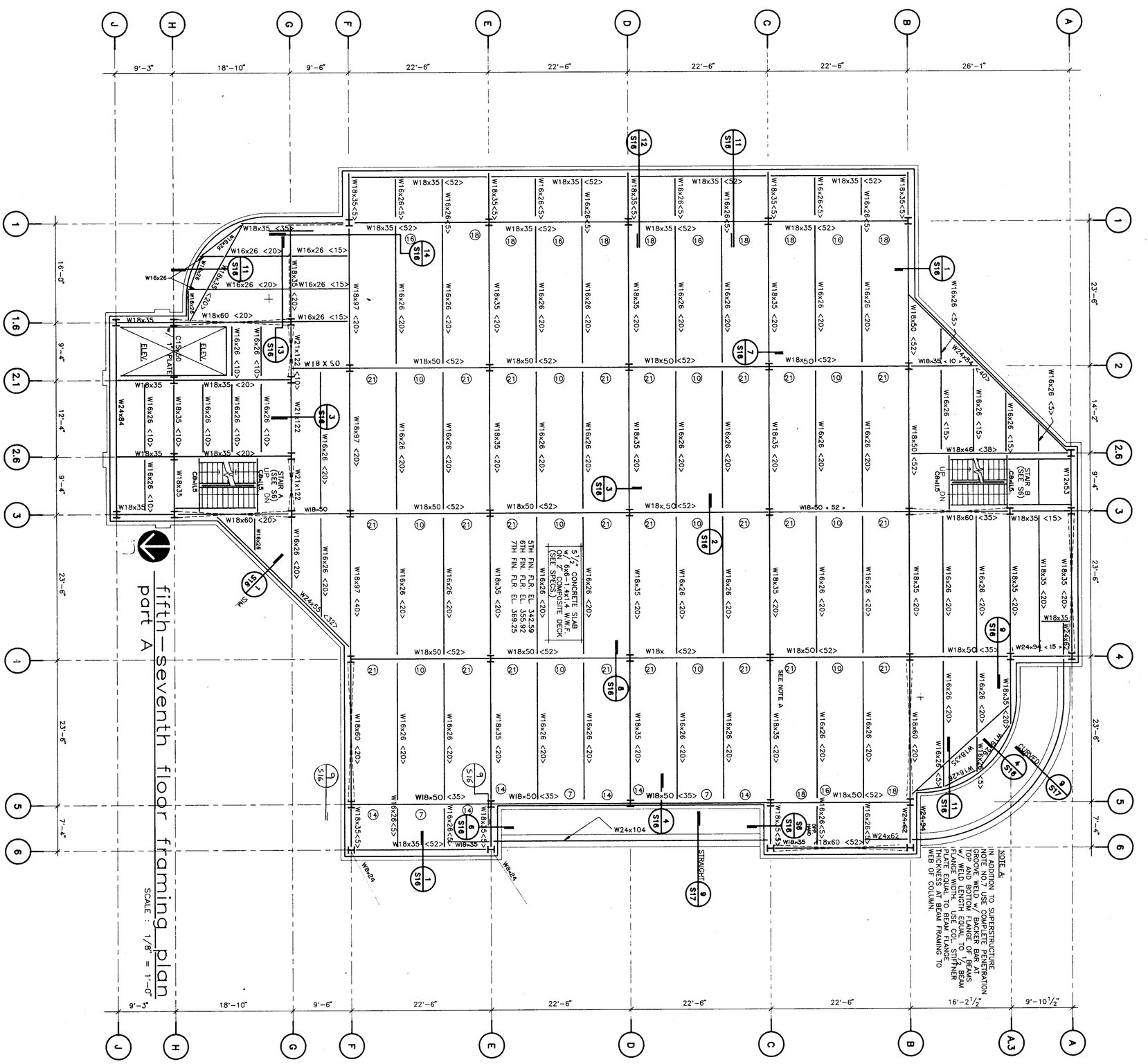

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S12
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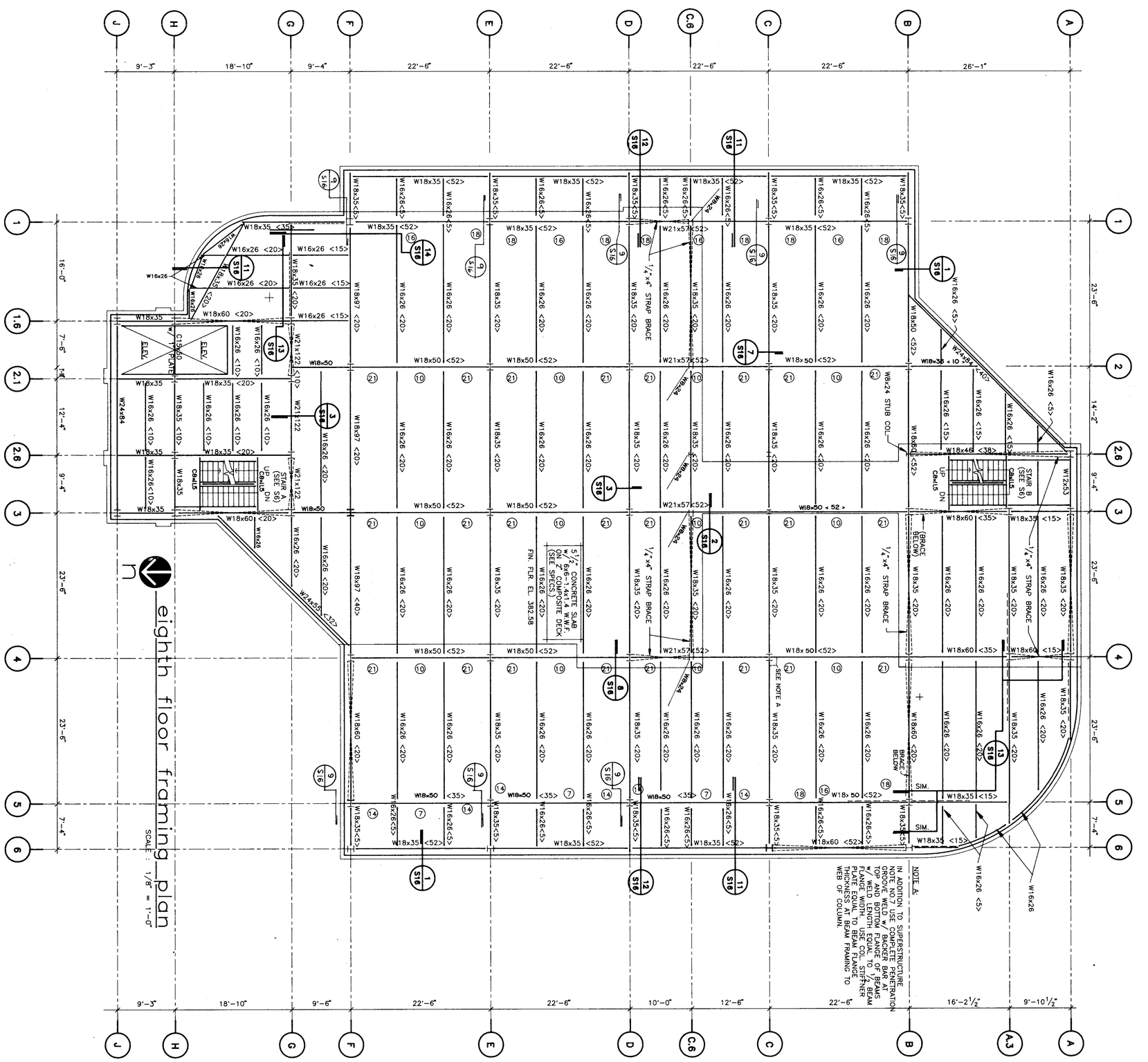

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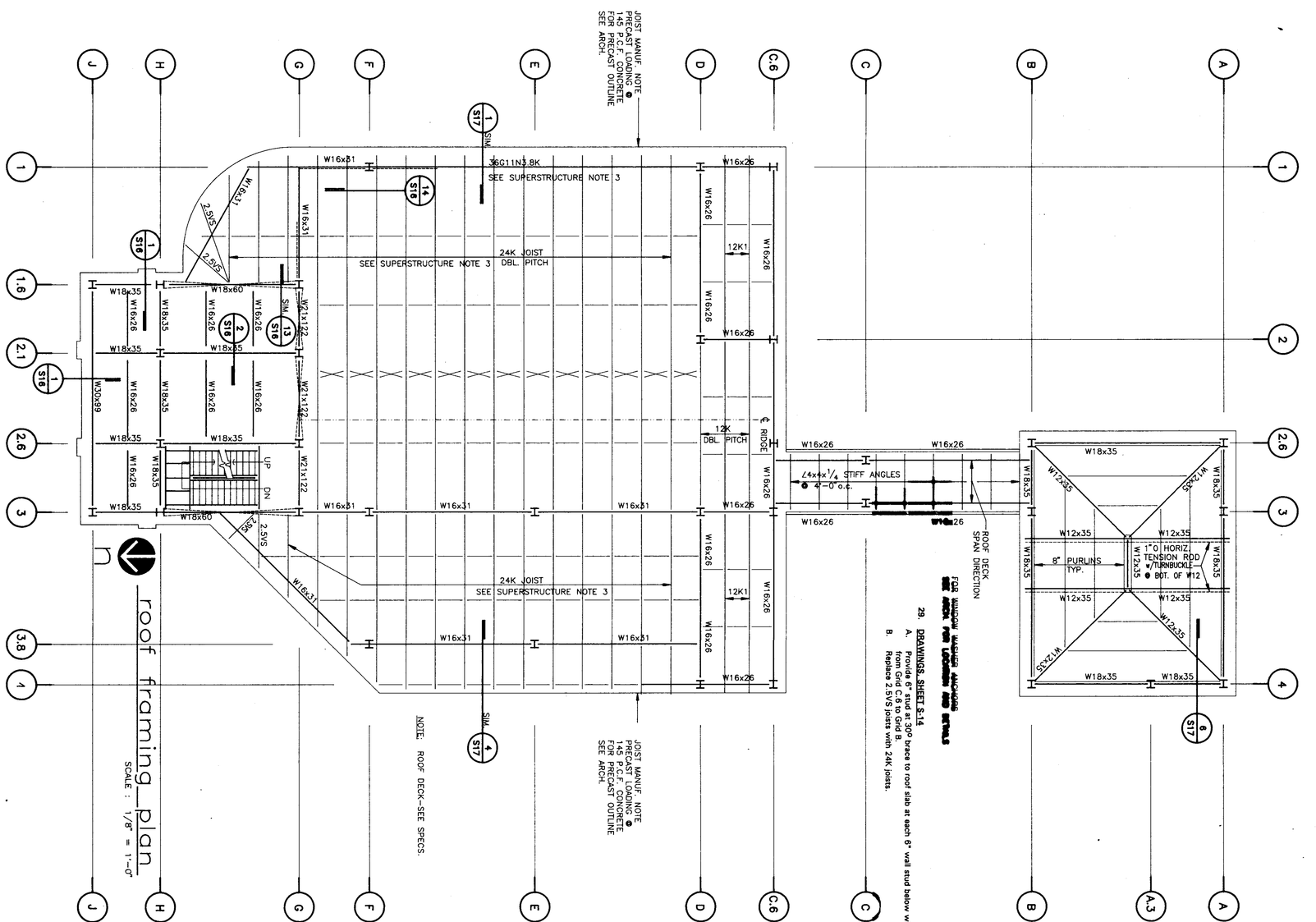

FOR WINDOW WASHER ANCHORAGE SEE ARCH. FOR LOCATION AND DETAILS

29. DRAWINGS, SHEET S-14
A. Provide 6" stud at 30° brace to roof slab at each 6" wall stud below window at corridor from Grid C.6 to Grid B.
B. Replace 2.5x5 joists with 24K joists.

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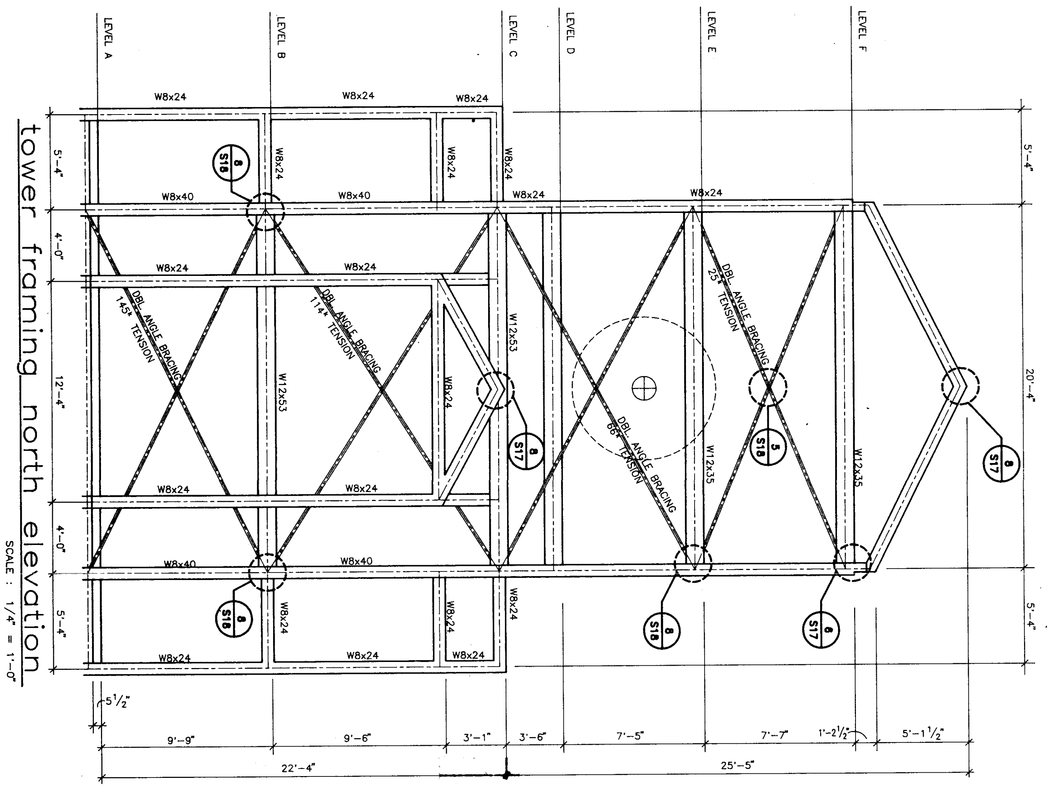
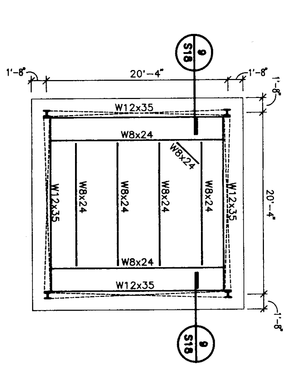


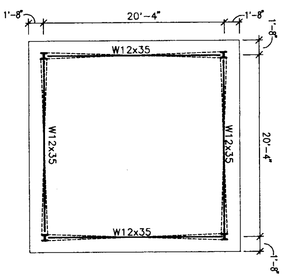
tower framing north elevation

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



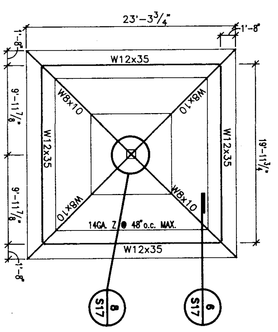
level d framing plan

SCALE : 1/8" = 1'-0"



level e framing plan

SCALE : 1/8" = 1'-0"

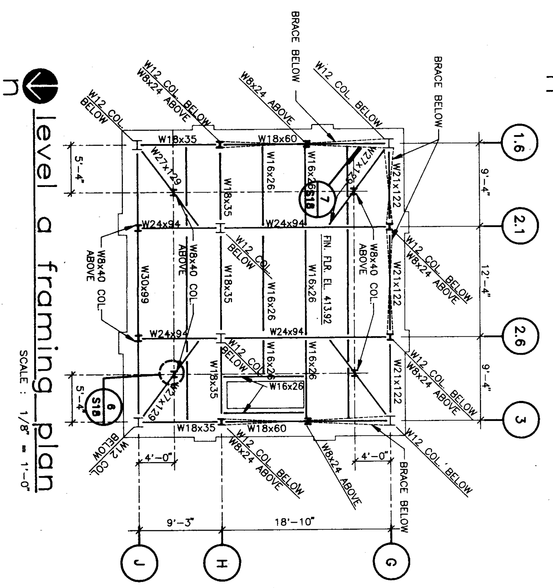


level f framing plan

SCALE : 1/8" = 1'-0"

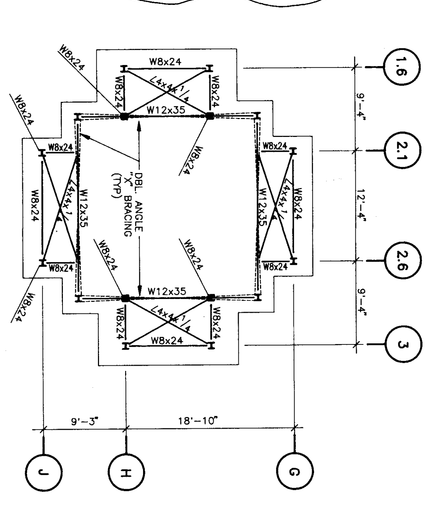
30. **DRAWINGS, SHEET S-15**
Double angle braces are to be sized per AISC with tension force shown.

See clarification Detail in spec.



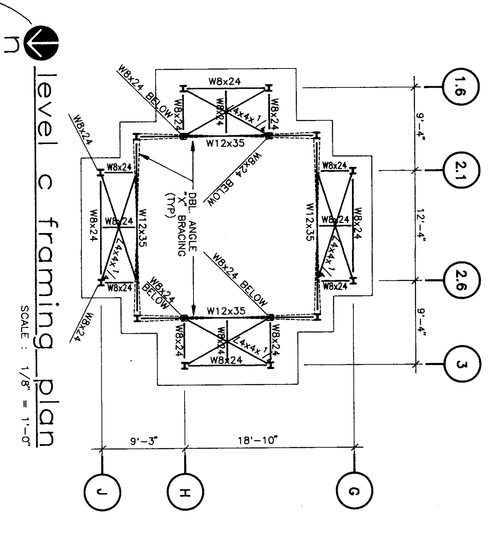
level a framing plan

SCALE : 1/8" = 1'-0"



level b framing plan

SCALE : 1/8" = 1'-0"



level c framing plan

SCALE : 1/8" = 1'-0"

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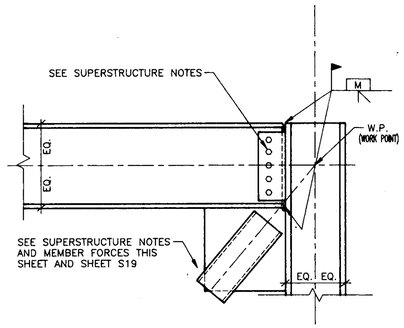

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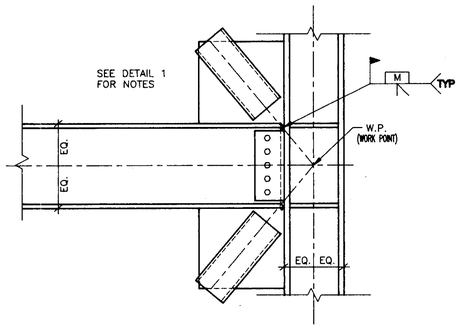

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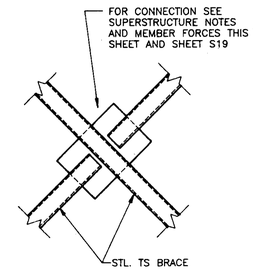

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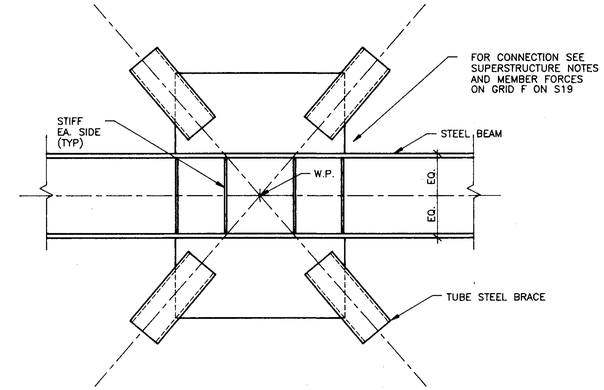

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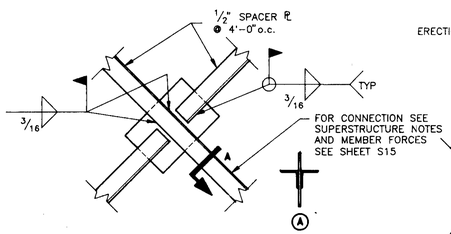

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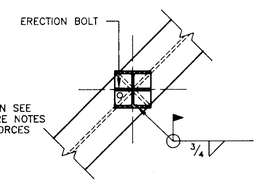

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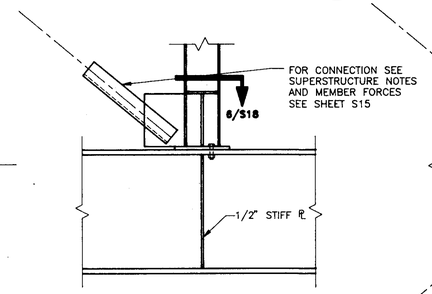

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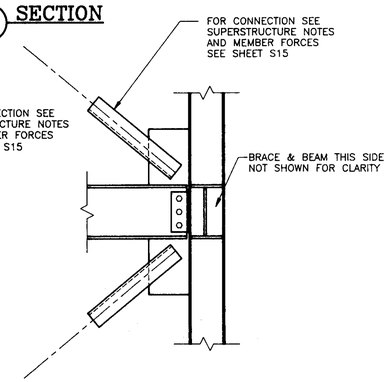

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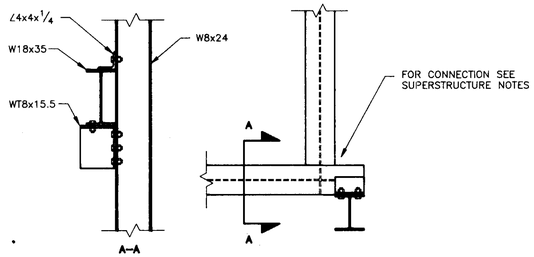
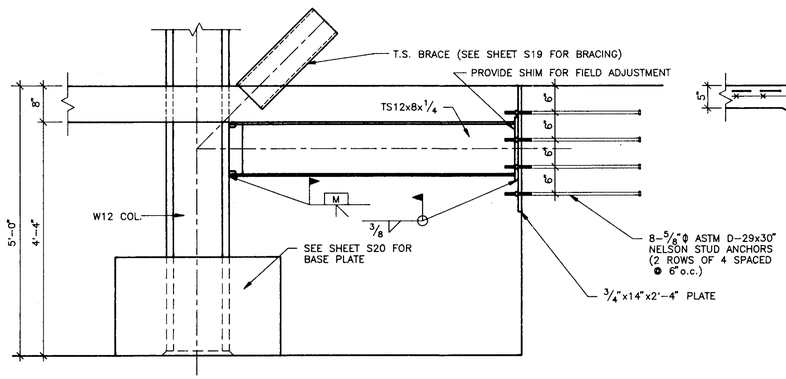


9 SECTION

33. **DRAWING, SHEETS S-18**
   A. Use #5 at 12" on center vertical and #4 at 12" on center horizontal for reinforcing on Detail 11.
   B. For brace connections see Superstructure Notes and forces on Sheets 18 and 19. Design connections to be welded or bolted or combination as needed for ease of erection.



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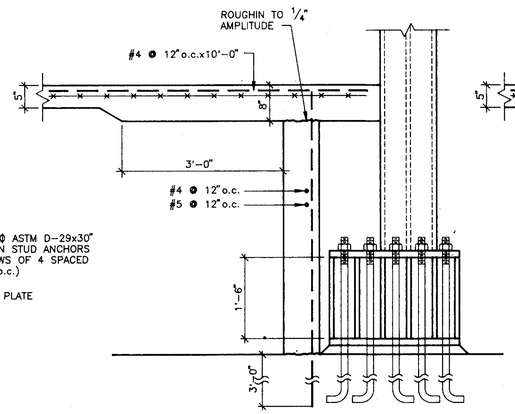

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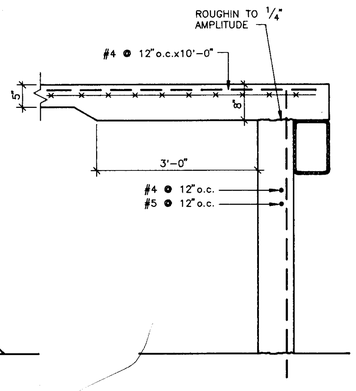

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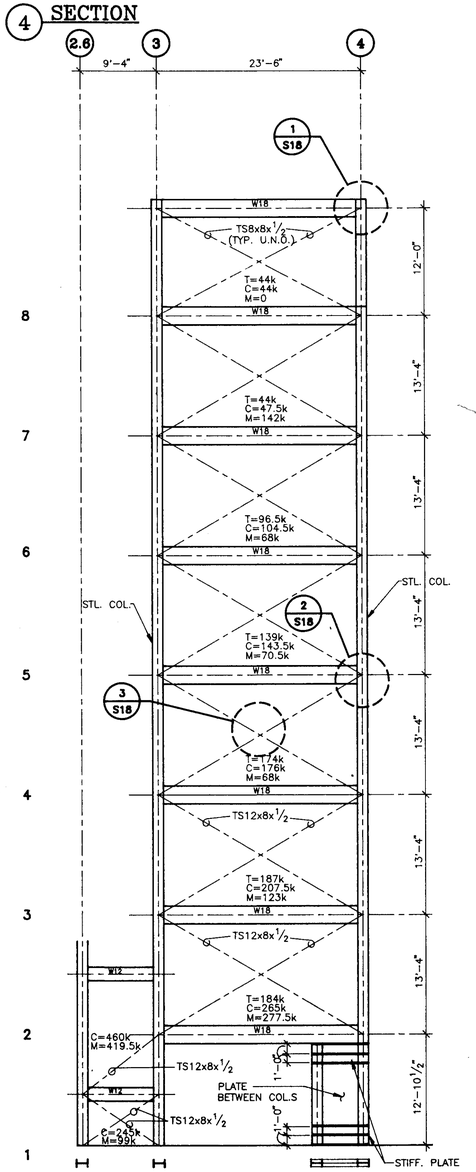

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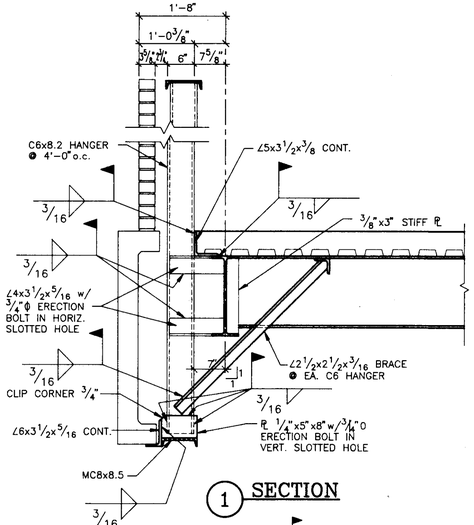

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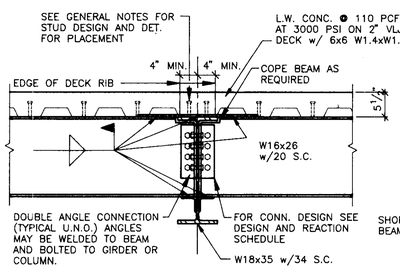

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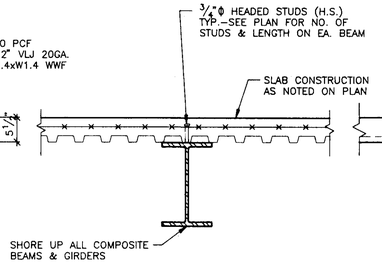

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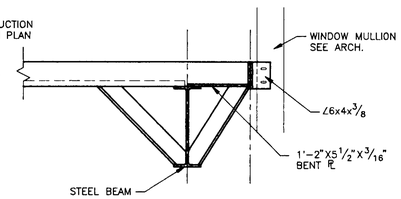

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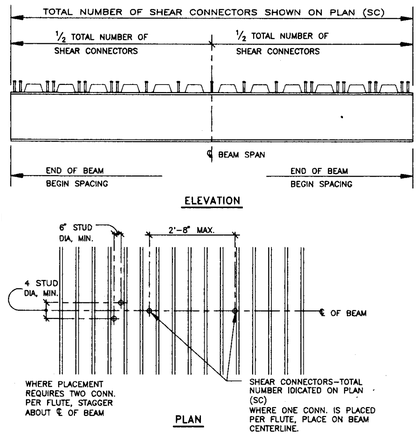

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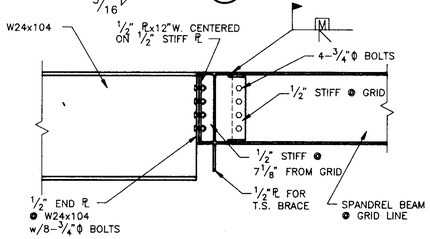

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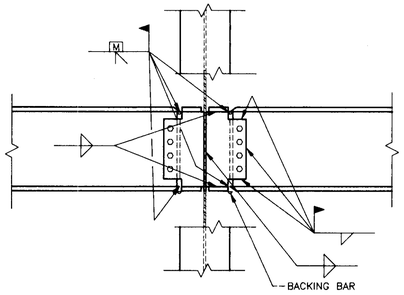

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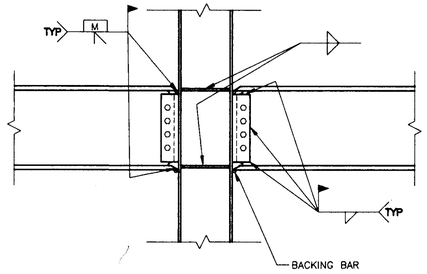

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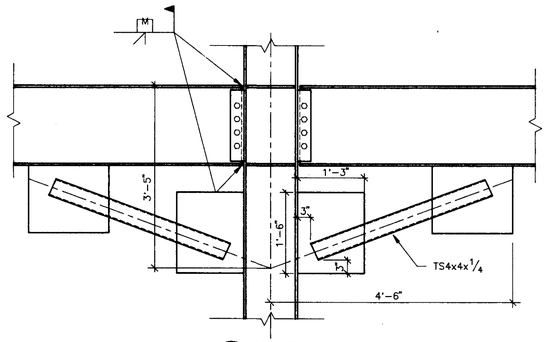

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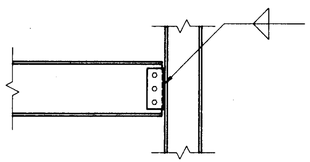

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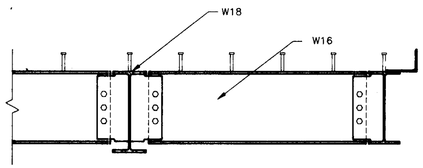

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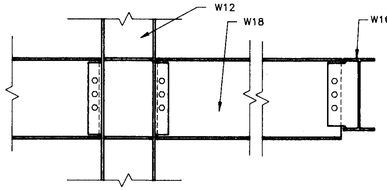

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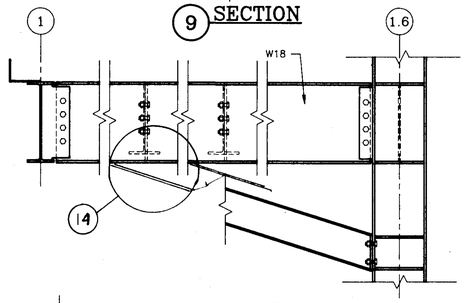

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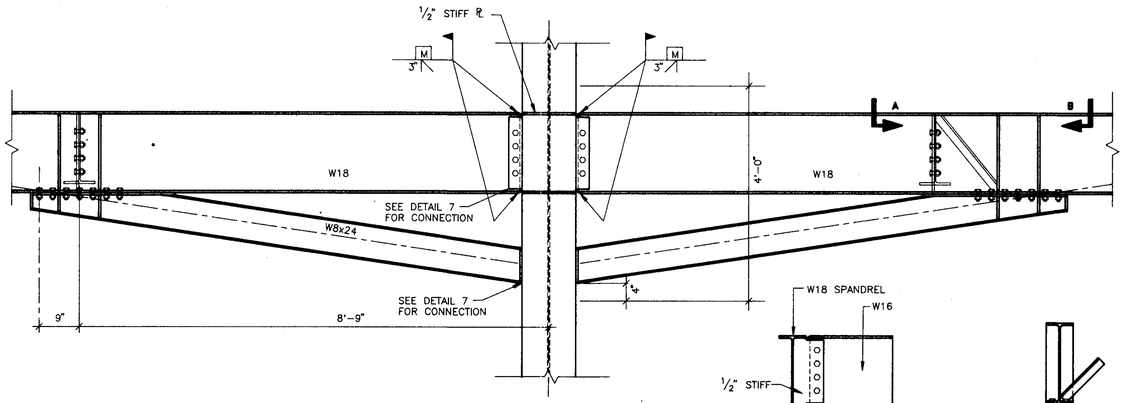
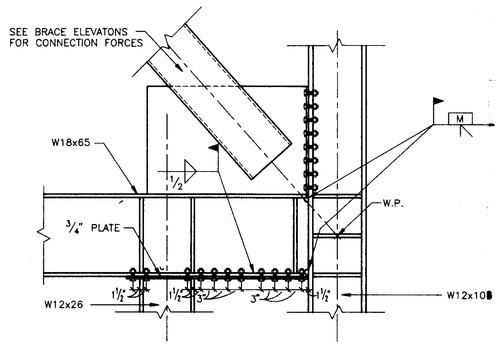


14 SECTION

A SECTION

B SECTION



15 SECTION

DRAWINGS, SHEET S-16

A. All angle braces not called out but shown are to be 3 X 3 X 1/4 angles at 2'0" on center at exterior side and at 4'-0" on center at interior side.

B. Detail 1:
   1) The veneer support of this building is accomplished with C6X8.2 vertical channel at 4'-0" on center running full height of building. The veneer (precast or brick) is supported by the 26 X 3-1/2 X 5/16 continuous angle, welded to the vertical channel (use 1/2" plate spacer perpendicular to angle) at the same level all around the building at the level of the window headers (Detail 1).
   2) Delete the 5 X 3-1/2 X 3/8" continuous angle at edge of slab and replace with 1/4" bent plate with 5-1/2" depth (use as screed) by 6" width welded to top of flange of perimeter beam.
   3) Detail 1 is typical for brick or precast veneers (at window headers). The MC8X8.5 to be placed so that the flanges are turned upward.

C. Detail 2 is typical at all purlin to girder connections without the top plate and without the bottom flange angle.

D. Remove the note "Shore up all composite beams and girders" at Detail 3. All beams and girders are designed with unshored condition.

E. Detail 4: Use angle 3 X 3 X 1/4 at each window mullion support and 3 X 3 X 1/4 angle kicked back to top flange of adjacent beam (space kick back angles at 4'-0" on center maximum). Use 1/4" bent plate instead of 3/8".

F. Detail 7: Weld sizes are determined by connection forces described in Superstructure Notes 7 and 8 (beam connection may be bolted only or welded only).

G. Detail 9 is applicable only where called for at Grid 5 and at all columns of Grid 1 at Levels 5 thru 8.

H. Detail 11: See Detail 15 Sheet S17. Length and width of plates and size of weld to be determined by the tension capacity of the W16 flange only.

I. Detail 14: All beam stiffener thickness to be no less than largest of the beam webs of the beams framed together, all column stiffeners thickness to be no less than beam flanges framing into them.

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1 SECTION

2 SECTION

3 SECTION

4 SECTION

5 SECTION

6 SECTION

SEE clarification Detail in spec.

7 SECTION

8 SECTION

9 SECTION

10 SECTION

11 SECTION

12 SECTION

13 SECTION

14 SECTION

15 SECTION

16 SECTION

17 SECTION

32. **DRAWINGS, SHEET S-17**
   - A. All angle braces not called out but shown are to be angle 3 X 3 X 1/4.
   - B. Roof joist uniform loading is 20 psf dead load and 20 psf live load (see also Note 3 of Superstructure Notes and Precast Load Note on Detail 1).
   - C. The joist manufacturer may use a closer joist spacing due to unusual cantilever length.
   - D. Curved box girder is welded with single bevel complete penetration groove weld.

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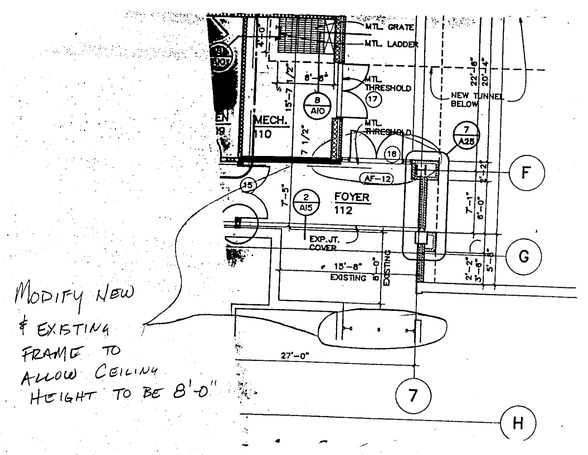
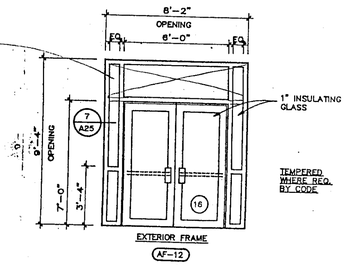


INSTALL "MAPES" TRANSOM PANEL TO MATCH FRAME



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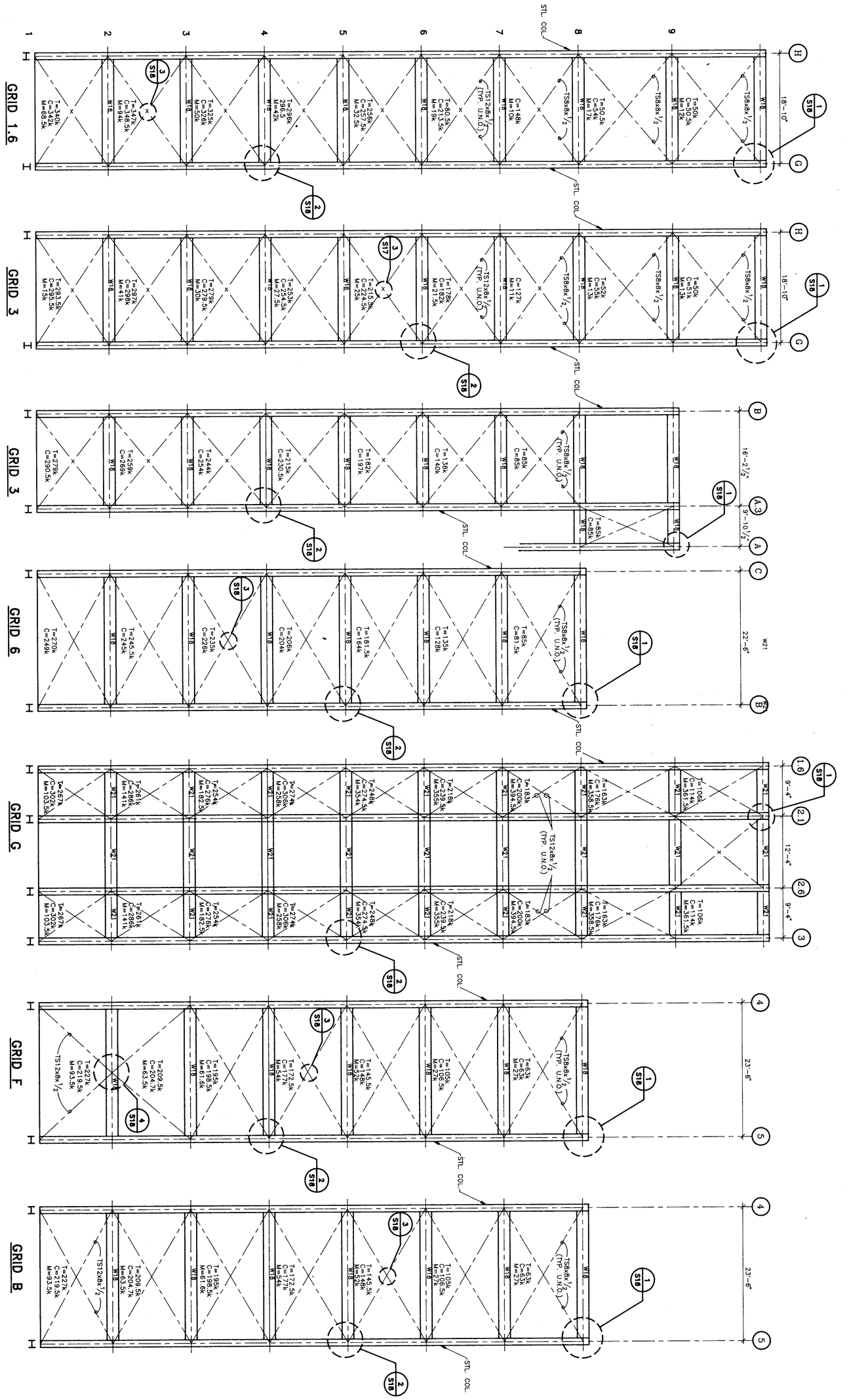

COMM. NO. 11990
S19
DATE: SEPT. 15, 1991

Brackett Krennerich and Associates P.A.

CORPORATE REGISTRATION ENGINEERING CONSULTANTS, INC. NO. 26 ARKANSAS - ENGINEER

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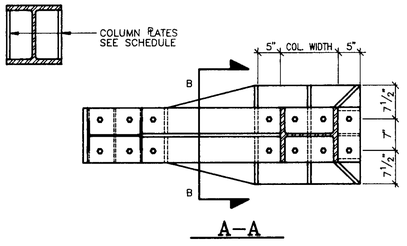
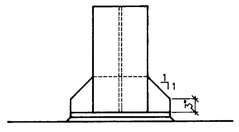
COLUMN SCHEDULE (50 KSI)

COLUMN MARK	A 2.6	A 4	A 3.5	A 3	A.3 3	A.6 $-\frac{1}{1}$	B −1	B C 6	B F $\frac{4}{5}$	B 3	E D C B 1	B 2	A.3 C D E $\frac{2}{4}$ $\frac{3}{5}$	F E D C 7	F $\frac{1}{2}$ 3	G 1.6 3	G 2.1 2.6	G.4 1	H 1.6	H 3	H 3.7	H 2.1 2.6	J 3 1.6	L K M 2.8 1.8	Y 2.9 3.9	X 2.9 3.9	TYP. INTERIOR COLUMN
BELL TOWER																											
ELEVATOR EQUIPMENT																											
EIGHTH LEVEL SPLICE LEVEL @ 1'-0" ABOVE FIN. FLOOR					W12x96				W12x35 @ B,F	W12x35			W12x35 @ A,3,4		F,1 F,3	W12x96	W12x96		W12x53	W12x53		W12x53	W12x53				
SEVENTH LEVEL																											
SIXTH LEVEL																											
FIFTH LEVEL																											
FOURTH LEVEL SPLICE LEVEL @ 1'-0" ABOVE FIN. FLOOR	W12x45	W12x58		W12x58	W12x96			W12x65	W12x65	W12x96	W12x58	W12x72	W12x72		W12x66	W12x120	W12x96		W12x120	W12x106		W12x65	W12x65				W12x65
THIRD LEVEL								W12x152											ELEVATOR PIT (5'-0") W12x170 1½" PLATE	ELEVATOR PIT (4'-0") W12x170 1" PLATE	W12x65	ELEVATOR PIT (5'-0") W12x87 (4'-0")	ELEVATOR PIT (5'-0") W12x87 (4'-0")	W12x65	W8x24	W8x24	
SECOND LEVEL	5" PLATE TO 1ST FLR. W12x79 ONLY	W12x106	W12x26	W12x106	W12x170 ½" PLATE W8x24	W8x24	W8x24		W12x136	W12x170 ½" PLATE	W12x106	W12x120	W12x120	W12x35	W12x170	W12x170 1½" PLATE	W12x170	W12x65									
FIRST LEVEL																											W12x106
ANCHOR BOLTS & BASE PLATES	B	A	A	E	F 18 BOLTS	E	E	F 14 BOLTS	C	F 18 BOLTS	E	E	E	E	D	F 26 BOLTS	F 20 BOLTS	E	B	E,	E	D	D	C	E	E	E	

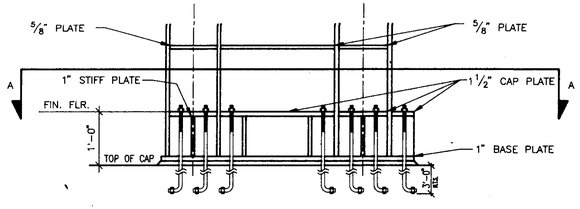
NOTE: COLUMN SPLICE SHALL BE COMPLETE PENETRATION FIELD GROOVE WELDED, USE SUGGESTED DETAILS, COLUMN SPLICES AISC 9TH EDITION, PAGE 4–134.



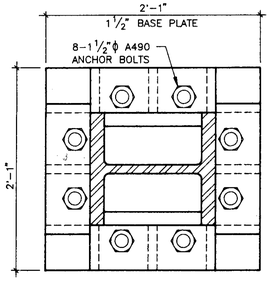
A–A



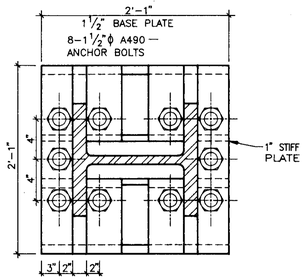
B–B



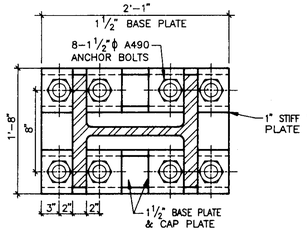
(A) BASE PLATE



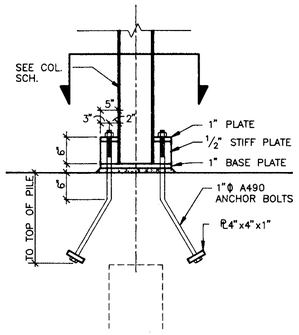
(B) BASE PLATE

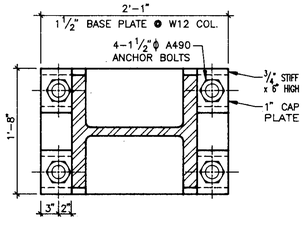


(C) BASE PLATE

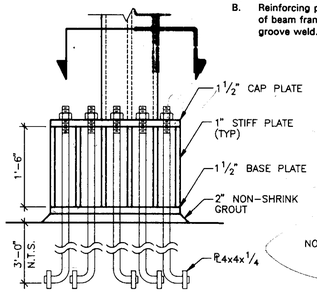


(D) BASE PLATE

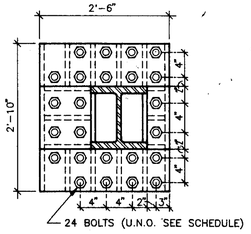




(E) BASE PLATE



NOTE: LOWER INTERIOR PILE CAPS BY 1'-0" WHERE "F" TYPE BASE PLATE OCCURS.



(F) BASE PLATE

DRAWINGS, SHEET S-20

A. Elevation view of base plate "E" is for W8 columns.
B. Reinforcing plates called for on column schedule go up to top flange (column stiff) level of beam framing into column at 2nd or 3rd level. Use single bevel complete penetration groove weld.

ALL OTHER PILE CAP. TOP ELEV. 288.27

ALL PILE CAPS TOP ELEV. 287.27

F.

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