LAW ENFORCEMENT CENTER

BERNALILLO COUNTY SHERIFF'S OFFICE / ALBUQUERQUE POLICE DEPARTMENT

400 ROMA N.W.
ALBUQUERQUE, NEW MEXICO 87102

BERNALILLO COUNTY COMMISSIONERS

Chairman: Patrick Padilla
Vice Chairman: Marion Cotrell
Patricia Cassidy
Linton Malary
Orlando Vigil

BERNALILLO COUNTY MANAGER

Alex Abeyta Jr.

BERNALILLO COUNTY SHERIFF

Alvin J. Cambell

HUTCHINSON BROWN BURTON & PARTNERS, INC.
ARCHITECTS & PLANNERS • 202 CENTRAL S.E., ALBUQUE

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CONSULTANTS

CIVIL / STRUCTURAL :

CHAVEZ / GRIEVES ENGINEERING
881-7376

MECHANICAL :

METRO-TEC ENGINEERING
843-9612

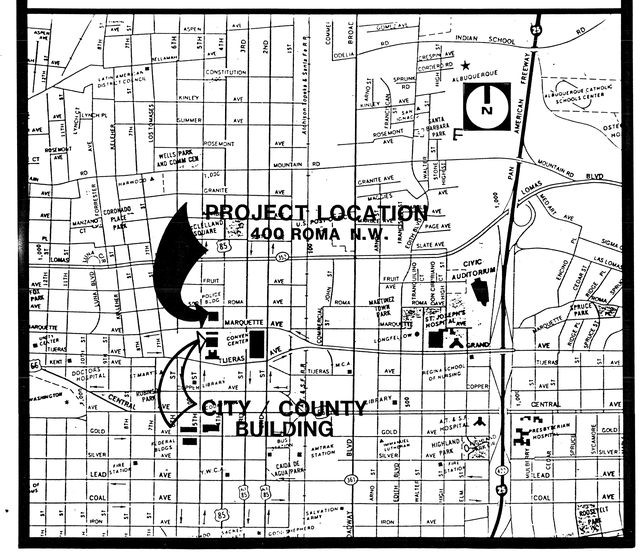
ELECTRICAL :

UHL / LOPEZ ENGINEERING
265-3425

CODE INFORMATION

- ZONING - SU-3
- OCCUPANCY GROUP - B-1 BASEMENT
  B-2 1st thru 5th FLOORS
- FLOOR AREA - 56,000 total gross square feet
- HEIGHT - 80.0' FINISH GRADE TO TOP OF PARAPET
- NUMBER OF STORIES - 5
- TYPE of CONSTRUCTION - TYPE I -F.R.
- LOCATION on PROPERTY : OPEN ON 3 SIDES
- OCCUPANT LOAD - 56,000/100 - 560 total

LOCATION MAP



STATE OF NEW MEXICO
Jon L. Hutchinson
10/30/86
James C. Brown
6709
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REGISTERED ARCHITECTS

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400 Roma N.W.
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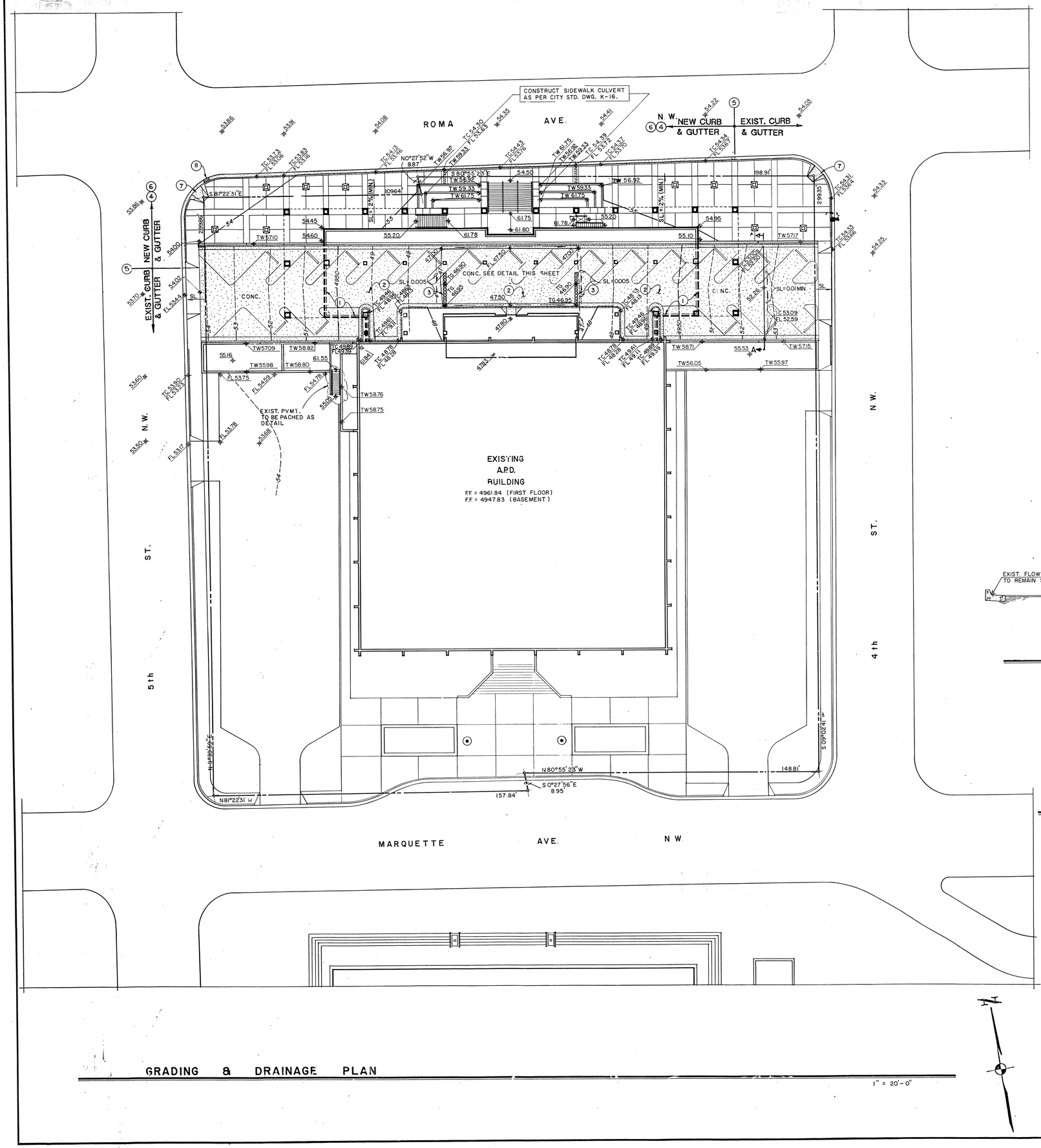
Project Number
8506
Date
4/14/86
Checked by
Drawing Title
INDEX,
CODE I
LOCA



GRADING & DRAINAGE PLAN

1" = 20'-0"

DRAINAGE PLAN

B.C.S.O. - A.P.D. BUILDING ADDITION

LOCATION AND DESCRIPTION:

THE SITE IS LOCATED ON THE SOUTH SIDE OF ROMA AVENUE BETWEEN 4TH STREET AND 5TH STREET CONTAINING APPROXIMATELY 0.75 ACRES. THE SITE IS PRESENTLY DEVELOPED AND SLOPES TO THE NORTH (ROMA AVENUE).

EXISTING CONDITION:

NO OFF-SITE RUNOFF ENTERS THE SITE DUE TO EXISTING ELEVATIONS. EXISTING RUNOFF FROM THE SITE ENTERS ROMA AVENUE AND IS INTERCEPTED BY A 36" STORM SEWER IN ROMA AVENUE EAST OF 4TH STREET AND A 30" STORM SEWER IN 5TH STREET. THE AREA OF THE SITE IS COMPLETELY DEVELOPED, THEREFORE THE EXISTING STORM SEWER SYSTEM IS ADEQUATE.

PROPOSED CONDITION:

PROPOSED DEVELOPMENT OF THE SITE INCLUDES A FIVE-STORY BUILDING LOCATED WHERE THE EXISTING BALCONY IS. THE EXISTING RAMP UNDER THE BALCONY IS TO REMAIN. THE RAMP DRAINS TO CULVERTS LOCATED AT THE LOW ENDS OF THE RAMP. THE CULVERTS DRAIN TO A SUMP LOCATED UNDER THE EXISTING BUILDING.

CALCULATIONS:

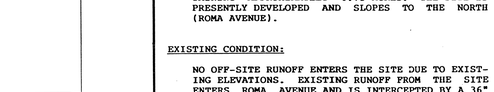
AREA = 0.75 ACRES
SOIL SERIES - Gk
HYDROLOGIC SOIL GROUP - B
I = 2.2 IN./HR. PLATE 22.2 D-2
6-HOUR, 100-YEAR RAINFALL = 2.2 IN. PLATE 22.2 D-1
i = (2.2)(2.2) = 4.84 IN./HR.

EXISTING ON-SITE CONDITIONS:

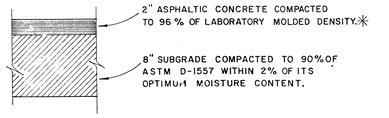
PERCENT IMPERVIOUS = 93%
C = 0.89 PLATE 22.2 C-1
Q(100) = (0.89)(4.84)(0.75) = 3.23 CFS
Q(10) = (0.657)(3.23) = 2.12 CFS
CN = 95 PLATE 22.2 C-2
DIRECT RUNOFF = 1.70 IN. PLATE 22.2 C-4
V(100) = (1.70)(0.75)(43560)/12 = 4628 CU. FT.
V(10) = (0.657)(4628) = 3041 CU. FT.

PROPOSED ON-SITE CONDITIONS:

PERCENT IMPERVIOUS = 98%
C = 0.96 PLATE 22.2 C-1
Q(100) = (0.96)(4.84)(0.75) = 3.48 CFS
Q(10) = (0.657)(3.48) = 2.29 CFS
CN = 97 PLATE 22.2 C-2
DIRECT RUNOFF = 1.9 IN. PLATE 22.2 C-4
V(100) = (1.9)(0.75)(43560)/12 = 5173 CU. FT.
V(10) = (0.657)(5173) = 3398 CU. FT.



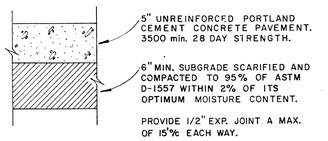
TYPICAL RAMP SECTION A-A



* ADDITIONAL SPECIFICATIONS FOR ASPHALTIC CONCRETE MAY BE TAKEN FROM "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1979 EDITION, SECTION 115.

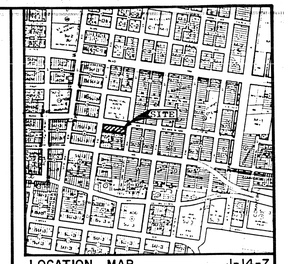
TYPICAL ASPHALT PAVING

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



TYPICAL CONCRETE PAVING

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



LOCATION MAP J-14-Z
REF : FLOOD HAZARD BOUNDARY MAP PANEL NO. 28.

GENERAL NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN IS BASED ON SURVEY PREPARED BY THE CITY OF ALBUQUERQUE, OFFICE OF THE CHIEF CITY SUREYOR LaMONTE J. URBAN, M.M.P.L.S. #4257, IN JANUARY OF 1986.
2. PROJECT BENCH MARK AND ACS BENCH MARK: BRASS CAP STAMPED "6-J14" LOCATED ON MARQUETTE AVE. N.W. AT THE INTERSECTION OF 4TH STREET N.W. AND MARQUETTE AVE. N.W. IN THE NORTHEAST CURB RETURN. ELEVATION = 4953.13 (NAVD 1929).
3. LEGAL DESCRIPTION: COMPRISED OF ALL OF BLOCK F OF MANDRELL BUSINESS AND RESIDENCE ADDITION TO THE TOWN OF ALBUQUERQUE AND ALL OF BLOCK 10 OF THE ARMIJO BROTHERS ADDITION AS FILED IN THE OFFICES OF THE PROBATE CLERK AND THE BERNALILLO COUNTY CLERK, BOOK C, PAGE 142 AND BOOK D, PAGE 116.
4. REPLATTING TO BE DONE BY CITY SURVEYING AT A FUTURE DATE.

KEYED NOTES

1. NEW BUILDING ABOVE RAMP. F.F. ELEVATION = 4961.84.
2. EXISTING ASPHALT RAMP TO BE RECONSTRUCTED TO EXISTING ELEVATIONS. SEE SECTION A-A. PROPOSED RAMP SECTION.
3. EXISTING TRENCHES TO BE RECONSTRUCTED TO EXISTING DIMENSIONS WITH NEW GRATES INSTALLED AS PER CITY STANDARD DRAWING. K-16 OR APPROVED EQUAL.
4. CONSTRUCT NEW STD. CURB AND GUTTER AS PER CITY STANDARD DRAWING P-8. (MATCH EXISTING) OR APPROVED EQUAL.
5. MATCH NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER AT NEAREST JOINT.
6. PROPOSED GUTTER FLOW LINE ELEVATIONS ARE TO MATCH EXISTING.
7. CONSTRUCT NEW HANDICAPPED RAMP AS PER CITY STANDARD DRAWING P-17 CASE I OR APPROVED EQUAL.
8. NEW CATCH BASIN LOCATION.
9. CONSTRUCT NEW DRIVE PAD AS PER CITY STANDARD DRAWING P-11 OR APPROVED EQUAL.

NOTICE TO CONTRACTOR:

1. THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION, 1985 WILL BE REFERRED TO HEREON AS THE "STANDARD SPECIFICATION".
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
5. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
6. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL DURING THE CONSTRUCTION PHASE, INCLUDING ANY PROVISIONS THAT NEED TO BE TAKEN TO DIVERT ANY SEDIMENT FROM ENTERING THE CITY RIGHT-OF-WAY.

LEGEND

- BUILDING (EXIST.)
- BUILDING (NEW)
- BUILDING ABOVE (NEW)
- CURB & GUTTER (EXIST.)
- CURB & GUTTER (NEW)
- CONCRETE (EXIST.)
- CONCRETE (NEW)
- SPOT ELEVATION (EXIST.)
- SPOT ELEVATION (NEW)
- CONTOUR (EXIST.)
- CONTOUR (NEW)

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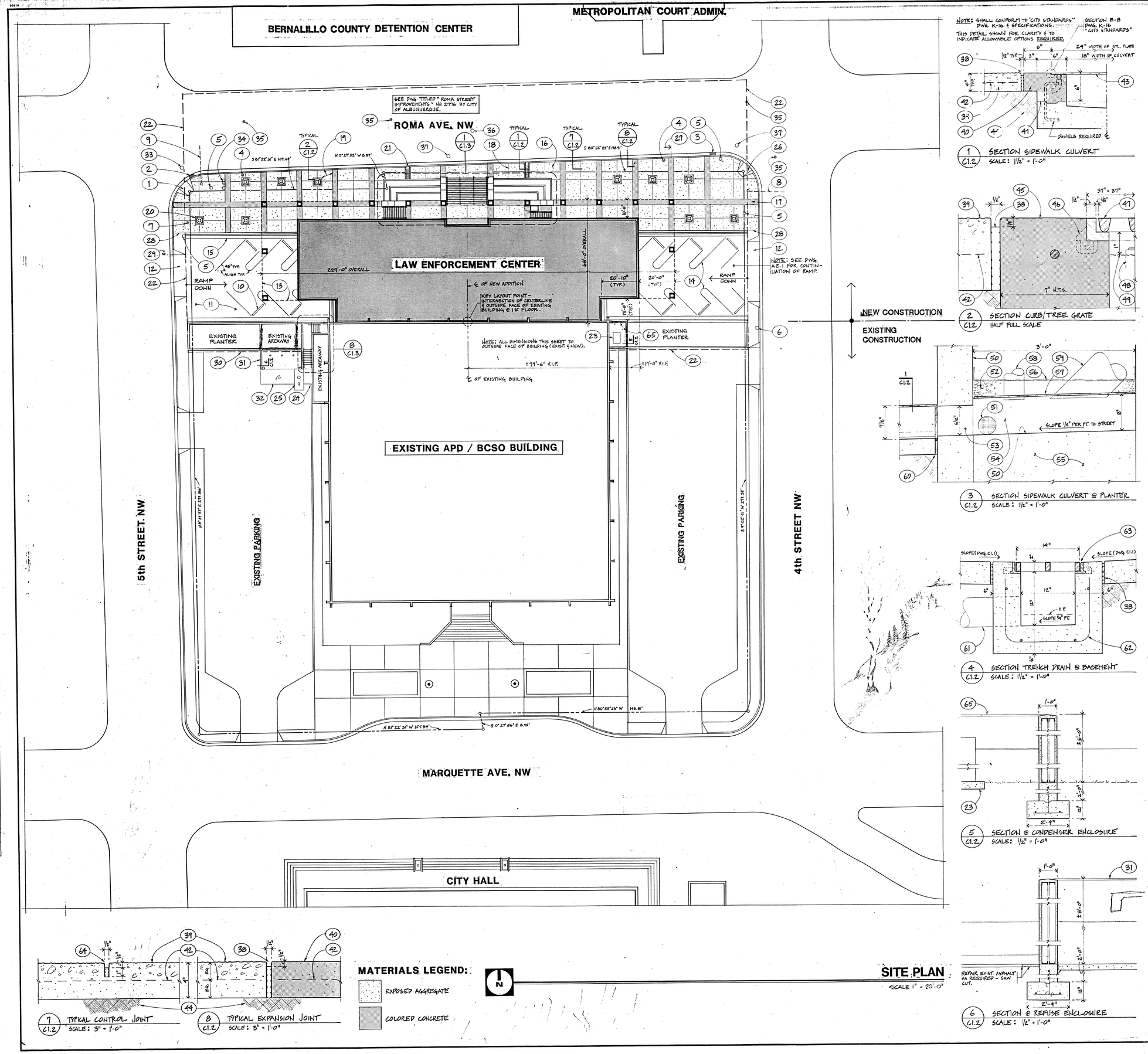
Project Number: 8506
Date: 4-14-86
Checked by:
Drawing Title: Site Drainage Plan

Drawing C1.1
Sheet 2 of 11



NOTE: SHALL CONFORM TO "CITY STANDARDS" DWG. K-16 & SPECIFICATIONS; THIS DETAIL SHOWN FOR CLARITY & TO INDICATE ALLOWABLE OPTIONS REQUIRED.

SECTION B-B DWG. K-16 "CITY STANDARDS"

1 / C1.2 SECTION SIDEWALK CULVERT
SCALE: 1½" = 1'-0"

2 / C1.2 SECTION CURB/TREE GRATE
HALF FULL SCALE

NEW CONSTRUCTION

EXISTING CONSTRUCTION

3 / C1.2 SECTION SIDEWALK CULVERT @ PLANTER
SCALE: 1½" = 1'-0"

4 / C1.2 SECTION TRENCH DRAIN @ BASEMENT
SCALE: 1½" = 1'-0"

5 / C1.2 SECTION @ CONDENSER ENCLOSURE
SCALE: 1½" = 1'-0"

6 / C1.2 SECTION @ REFUSE ENCLOSURE
SCALE: 1½" = 1'-0"

7 / C1.2 TYPICAL CONTROL JOINT
SCALE: 3" = 1'-0"

8 / C1.2 TYPICAL EXPANSION JOINT
SCALE: 3" = 1'-0"

MATERIALS LEGEND:

EXPOSED AGGREGATE

COLORED CONCRETE

N

SITE PLAN
SCALE 1" = 20'-0"

GENERAL NOTES:

A. "City Standards" referred to herein are the City of Albuquerque Interim Standard Specifications - Public Works Construction - 1985.

B. The Contractor shall reset, adjust, and provide any additional appurtenances required to provide for flush alignment of all utility boxes & access devices with new concrete paving at finish grades required by these Documents.

C. All dimensions & conditions shall be checked & verified by the Contractor at the site before proceeding with the Work. All dimensions preceeded with ± must be specifically verified by the Contractor. Should any conflicts exist, the Contractor shall notify the Architect in writing so that the conflict can be resolved with a minimum amount of delay.

KEYED NOTES:

1. New concrete handicapped ramp with broom finish per City Standards. (see dwg. C1.1)
2. New catch basin per City Standards. See Dwg. C1.1.
3. Existing catch basin to remain.
4. Existing utility pole with light to remain.
5. Existing electric riser to remain. See General Note B.
6. Existing concrete base for utility pole (no pole) to remain.
7. Relocated utility pole with light. Install at new location including concrete footing & re-routing of electric per City Standards.
8. Existing traffic light to remain.
9. Relocated traffic light. Install at new location including concrete footing & re-routing of electric per City Standards.
10. New concrete wheel stops (typical). See specifications and Dwg. A2.1.
11. New concrete ramp with broom finish to be constructed to existing elevations. See Dwg. C1.1.
12. Existing concrete drive pad to remain. Protect from damage during construction.
13. Line of building above (typical).
14. Painted parking stripping (typical). See specifications and Dwg. A2.1.
15. New concrete curb & gutter per City Standards. See Dwg. C1.1.
16. New exposed aggregate concrete paving (typical). See materials legend this sheet.
17. New colored concrete (typical). See materials legend this sheet.
18. Control joints (within exposed aggregate concrete paving) typical.
19. Expansion joints (wherever exposed aggregate concrete paving abuts colored, or new or existing grey concrete) typical.
20. Tree grates (typical). See detail this sheet.
21. Sidewalk culvert. See detail this sheet.
22. Construction fence. Repair all disturbed paving upon removal.
23. Relocated condenser. Installation at new location shall include concrete pad sized accordingly. Relocate existing landscaping as required and as directed by Architect.
24. Repair existing concrete curb & gutter where sawcut to abut new concrete pad. Grind all exposed edges, paint ends of exposed reinforcing, & provide sealant at exposed joints.
25. Existing fuel oil storage tank with concrete pad to remain undisturbed.
26. New concrete handicapped ramp with broom finish per City Standards. Replace existing curb & gutter as required to accommodate new ramp. See Dwg. C1.1.
27. Extent of new curb & gutter. See Dwg. titled "Roma Street Improvements" No. 2776 by City of Albuquerque.
28. Saw cut existing concrete paving to existing curb and to align with north face of existing concrete retaining wall. This new expansion joint shall be the extent of new exposed aggregate paving.
29. Same as note No. 27 except extent of new curb & gutter shall be increased if required upon field verification to align with existing curb & gutter at existing point of tangency.
30. Construction fence terminated at new temporary entrance structure. See Dwg. C1.0. Provide additional barrier as required to prevent access from temporary entrance structure to construction site via adjacent planter/areaway.
31. Refuse enclosure for lift bin containers per City Standards and shall include the following: Enclosure walls shall be constructed similar to Det.10/C1.4, existing concrete wall at south face of north wall shall be finished with synthetic stucco, sealant with backer rod as required shall be provided at all joints between concrete & stud construction. Provide 3 bollards painted, 4'-6" from each side & one in middle. Provide concrete footing 2'-4" x 12" (T.O.F. 24" below grade) with keyed concrete stem wall for west wall of enclosure, see structural specs for reinforcing required. To be constructed at same time as Stair #4.
32. Concrete apron per City Standards and shall extend to east to abut existing concrete wall.
33. Existing electric manhole (paved over) to remain.
34. Existing water riser (3) to remain. See General Note B.
35. Existing water valve to remain.
36. Existing sanitary sewer manhole to remain.
37. Existing electric manhole to remain.
38. Expansion joint: ½" wide & shall be formed with "Kold - Seal Zip-per Strips" as manufactured by Vinlyex Corporation. Final joint both sides shall have rounded edges, ¼" deep - no sealant required.
39. Exposed aggregate concrete paving.
40. Colored concrete.
41. Construction joint.
42. WWF 6 x 6 W2.9 x W2.9 reinforcing.
43. Cast (grey) iron checkered steel plate - no paint.
44. Compacted subgrade.
45. Continuous colored concrete curb 18" deep reinforced with 2-#4 horiz. top and bottom.
46. Lug placement similar to specified manufacturers "Type 2" frame.
47. Cast (grey) iron tree grate with one piece angle frame as manufactured by Neenah Foundry Company. R-8702, no paint, grate halves bolted together on under side. Provide for flush fastening with "Blue Devil" tamperproof socket screws as manufactured by Safety Socket Screw Corporation, finish same as grate. Provide special tool for removal and template for placement in frame when pouring concrete.
48. Bubbler riser (see Dwg. P2.1).
49. Minimum 4" depth bark mulch (typical for all areas to receive planting).
50. Planter waterproofing (see specifications) on all concrete surfaces within all areas of planters.
51. 4" dia. PVC weep (both sides of each culvert) with stainless steel screen caps on planter end. PVC set flush with face of concrete curb on inside of culvert.
52. Gravel 12" deep in lowest tiered planters. Depth for other planters as indicated otherwise.
53. 18" wide blockout in concrete wall. Contractor shall coordinate precise blockout elevation with finfsh grades on Dwg.C1.1 for both locations.
54. Unreinforced concrete curbs 6" thk, 18" apart.
55. Unreinforced concrete fill to top of structural slab (see Det. 17/S1.3). Filler concrete shall be sloped ¼" per ft. in all planters to drain to culvert within.
56. Fiberglass soil mat turned up 3" at all perimeters (typical).
57. 3/8" steel plate 24" wide, mechanically fastened to top of curbs. Cut eliptical holes for pipe penetrations (see plumbing drawings). Pipes must be properly secured & penetrations continuously sealed.
58. 4" planter drain line penetrating plate at angle not to exceed 45°, from side.
59. 8" RWC lines (2 side by side) penetrating plate at angle not to exceed 45°.
60. Expansion joint, ½", all three sides, compressible joint filler & sealant.
61. 6" dia. leader (see Dwg. P2.2)
62. #4 bars @ 12" o.c.
63. Cast (grey) iron trench grating, style "Type A" with frame "Type L", natural finish, B-4990-D as manufactured by Barry Craft Construction Casting Company.
64. Control Joint: Same as note No. 38 except depth as indicated in detail.
65. Screen walls for condenser: Shall be constructed similar to Det. 10/C1.4, sealant with backer rod shall be provided at all joints between concrete & stud construction.

STATE OF NEW MEXICO
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James W. Brown
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No. 8357
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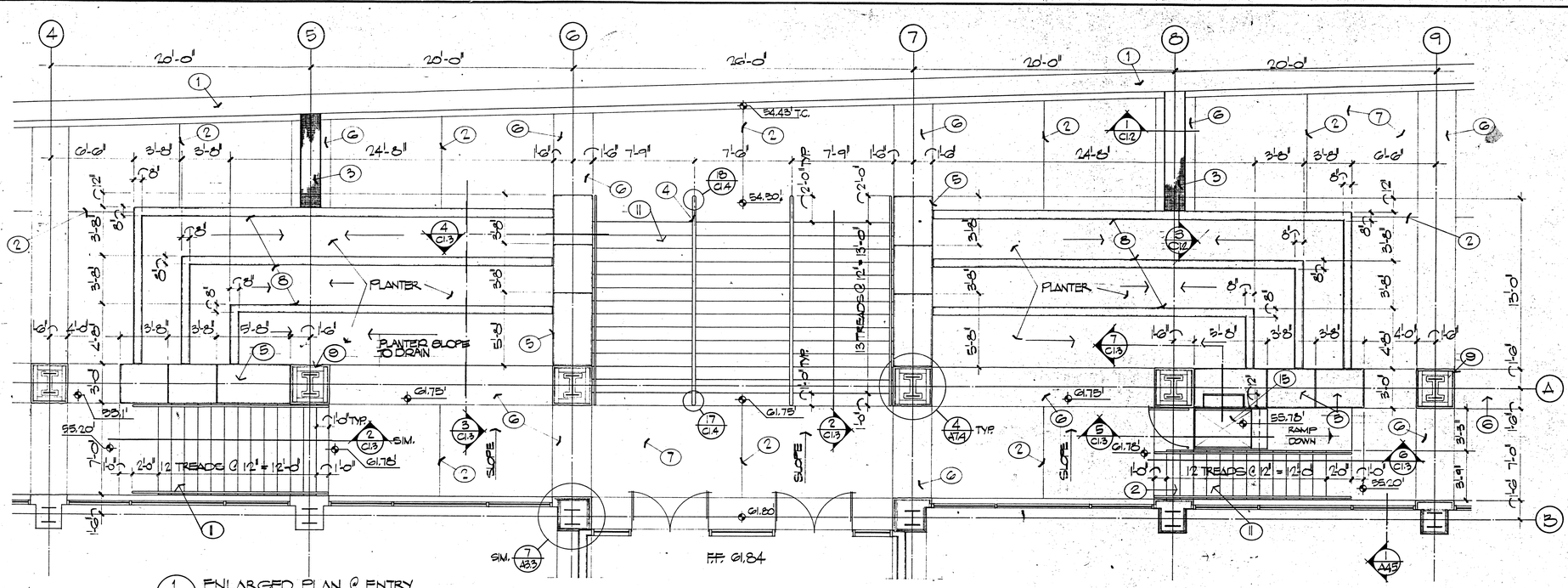
Project Number: 8506
Date: 4/14/86
Checked by:
Drawing Title: Site plan

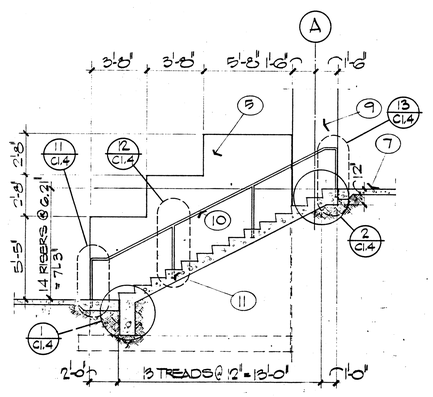
Drawing: C1.2
Sheet: 5 of 11



1 C1.3 ENLARGED PLAN @ ENTRY 1/4"

KEYED NOTES:

1. Concrete curb and gutter (per city standard)
2. ½" expansion joint.
3. Trench drain cover
4. Lighted hand rail (see elec.)
5. Synthetic stucco over concrete stair walls (see specs.)
6. Colored concrete (see specs.)
7. Exposed aggergate concrete (see specs.)
8. Synthetic stucco over concrete planter walls (see specs.)
9. Synthetic stucco finish on column.
10. 1¼" steel pipe handrail.
11. Colored concrete stair (see specs.)
12. 18" deep layer of 1½" gravel (typical each planter) w/fabric filter cloth
13. Damp proofing (see specs.), all surfaces below grade, typical each planter.
14. 4" PVC drain pipe, typical at 8'-0" o.c. each planter.
15. Wheelchair lift (see specs.)
16. Wheelchair lift gate (by manuf.)
17. Metal pan steel stair W/conc. treads.
18. New metal stud wall W/synthetic stucco finish over 1½" polystyrene o/½" sheathing.
19. Existing buildings wall.
20. Existing 12" thick concrete wall.
21. New concrete deck on metal decking.
22. Existing asphalt paving.
23. Concrete footing (see structural)
24. Conc. mud slab, slope to sidewalk culvert drain @ column lines 5 & 8.
25. New infill wall: 3 5/8" met. studs @ 16" o.c. w/sym. stucco o/⅝" polyst. o/½" sheathing w/full batts.



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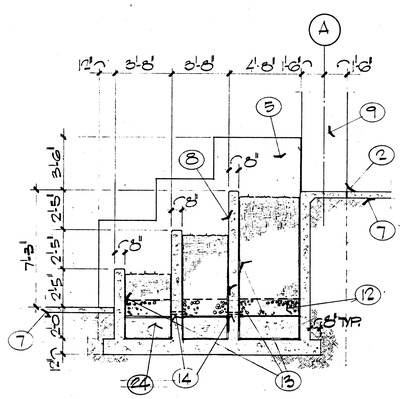

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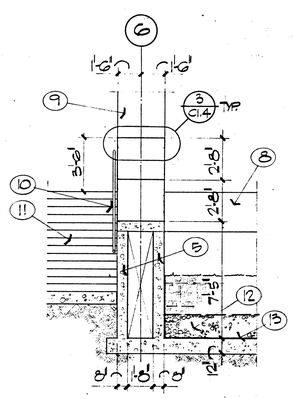

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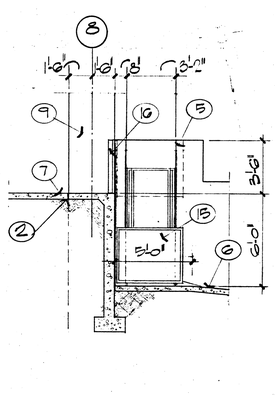

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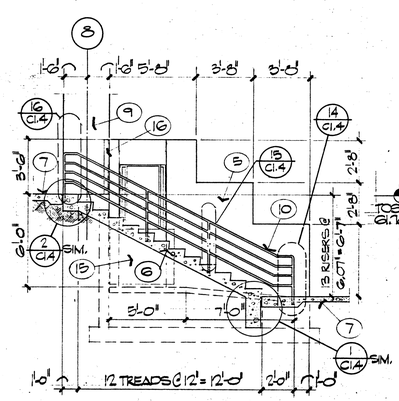

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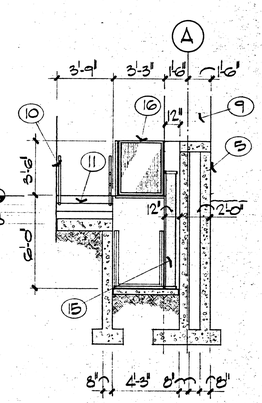

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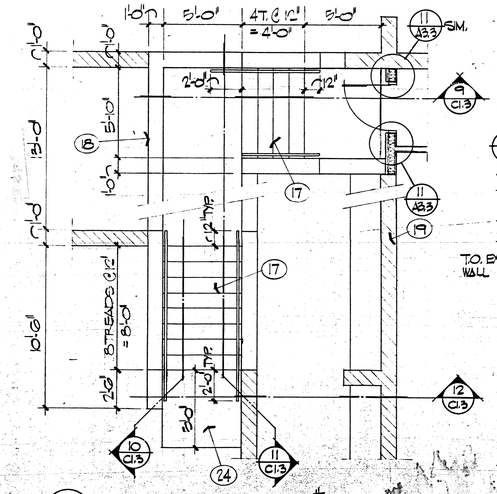

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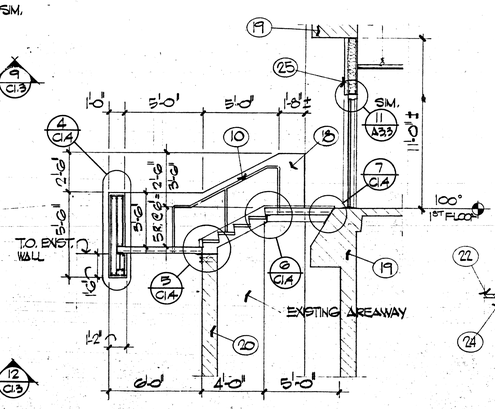

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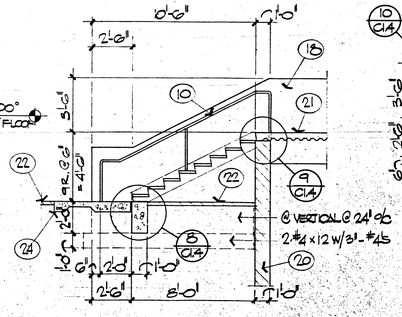

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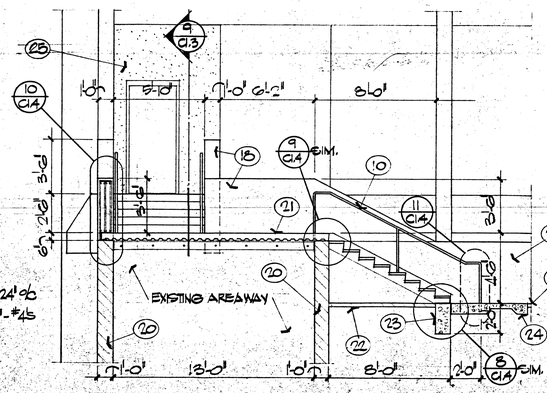

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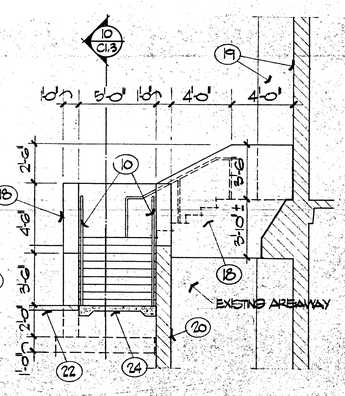

12 C1.3 SECTION 1/4"

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400 Roma N.W.
Albuquerque, New Mexico 87102
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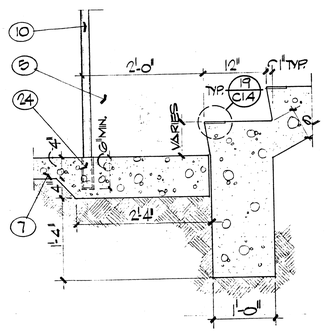
Project Number: 8506
Date: 4/14/06
Checked by:
Drawing Title: Enlarged Entry & Stair Plans

Drawing: C1.3
Sheet: 30 of 111



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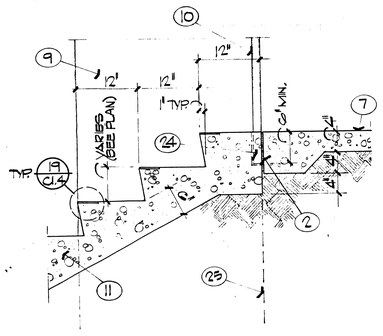

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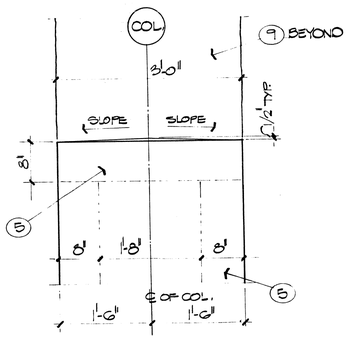

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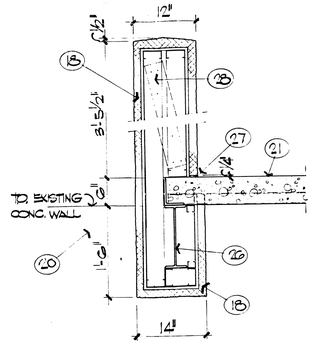

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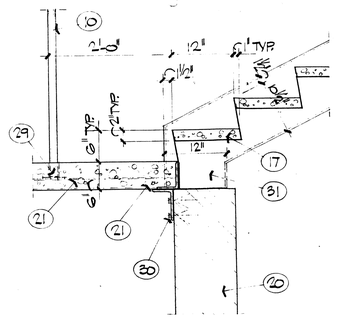

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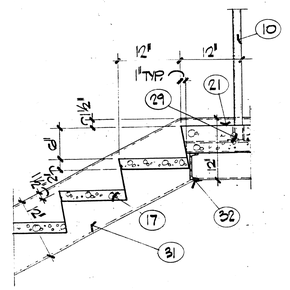

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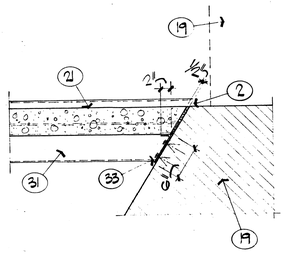

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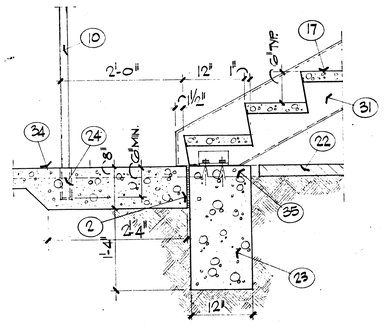

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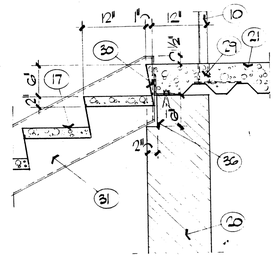

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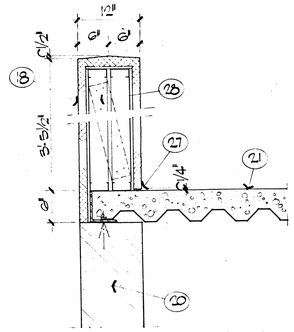

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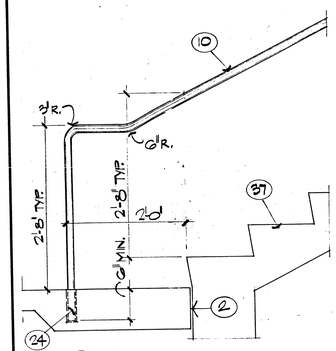

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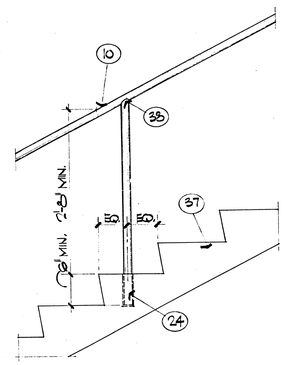

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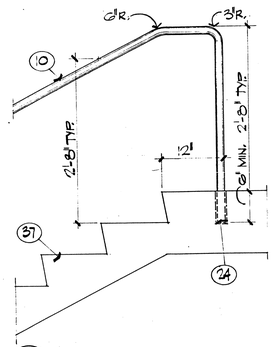

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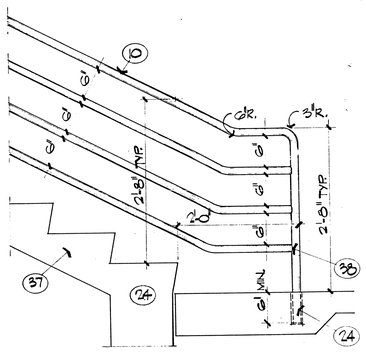

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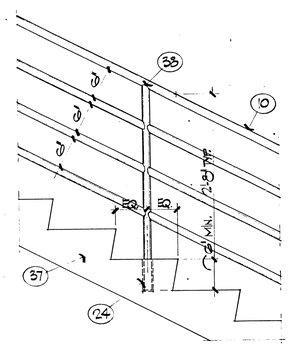

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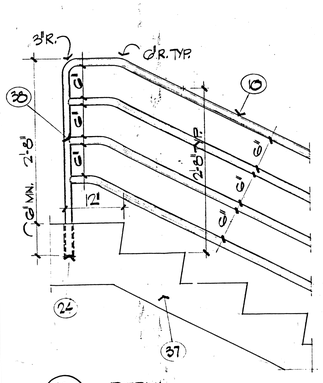

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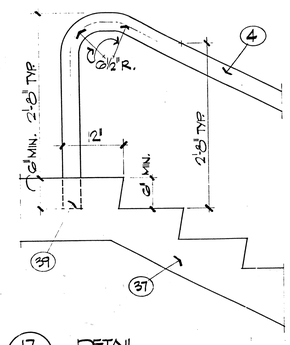

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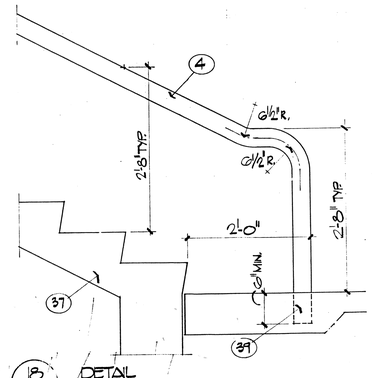

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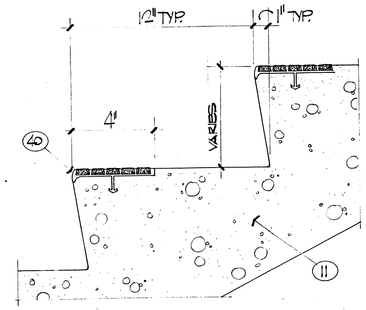

19 C1.4 DETAIL 3"

KEYED NOTES :

1. Concrete curb and gutter
2. ½" expansion joint.
3. Trench drain cover
4. Lighted hand rail (see elec.)
5. Synthetic stucco over concrete stair walls (see specs.)
6. Colored concrete (see specs.)
7. Exposed aggregate concrete (see specs.)
8. Synthetic stucco over concrete planter walls (see specs.)
9. Synthetic stucco finish on column.
10. 1½" steel pipe handrail.
11. Colored concrete stair (see specs.)
12. 18" deep layer of 1½" gravel (typical each planter)
13. Water proofing (see specs.), all surface below grade, w/fabric filter cloth typical each planter.
14. 4" PVC drain pipe, typical at 8'-0" o.c. each planter.
15. Wheelchair lift (see specs.)
16. 1½" steel pipe gate.
17. Metal pan steel stair W/conc. treads.
18. Synthetic finish over 1½"-polystyrene o/½" sheathing on 3 5/8" 16 ga. mtl. studs @ 24" o.c.
19. Existing buildings wall.
20. Existing 12" thick concrete wall.
21. New concrete deck on metal decking.
22. Existing asphalt paving.
23. Concrete footing (see structural)
24. Pipe sleeve set in concrete.
25. Column cap beyond.
26. Steel Beam (see structural)
27. Backer rod W/caulking continuous.
28. 3⅝" Mtl. stud bracing @ 16" o.c.
29. Pipe sleeve welded to ¼" plate then welded to Mtl. deck.
30. Steel angle (see structural)
31. 12" steel channel (see structural)
32. 4" steel channel (see structural)
33. 2"x6"x5'-10"x⅜" bent plate bolted to existing building wall (see structural)
34. 5'-0"x5'-0" concrete pad (see plan)
35. Remove existing asphalt paving.
36. Sawcut existing concrete wall to receive steel stair.
37. Stair (see plan for material)
38. Weld and grind smooth all joints typical.
39. Rail mounting as per manufactures specifications.
40. Alumn. safty grit tread nosing (see specs.)

STATE OF NEW MEXICO
Leo L. Pfotenhauer
No. 8317
James A. Burton
No. 875
REGISTERED ARCHITECT

LAW ENFORCEMENT CENTER

400 Roma N.W.
Albuquerque, New Mexico 87102

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Project Number
8506
Date
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Drawing Title
Site Details

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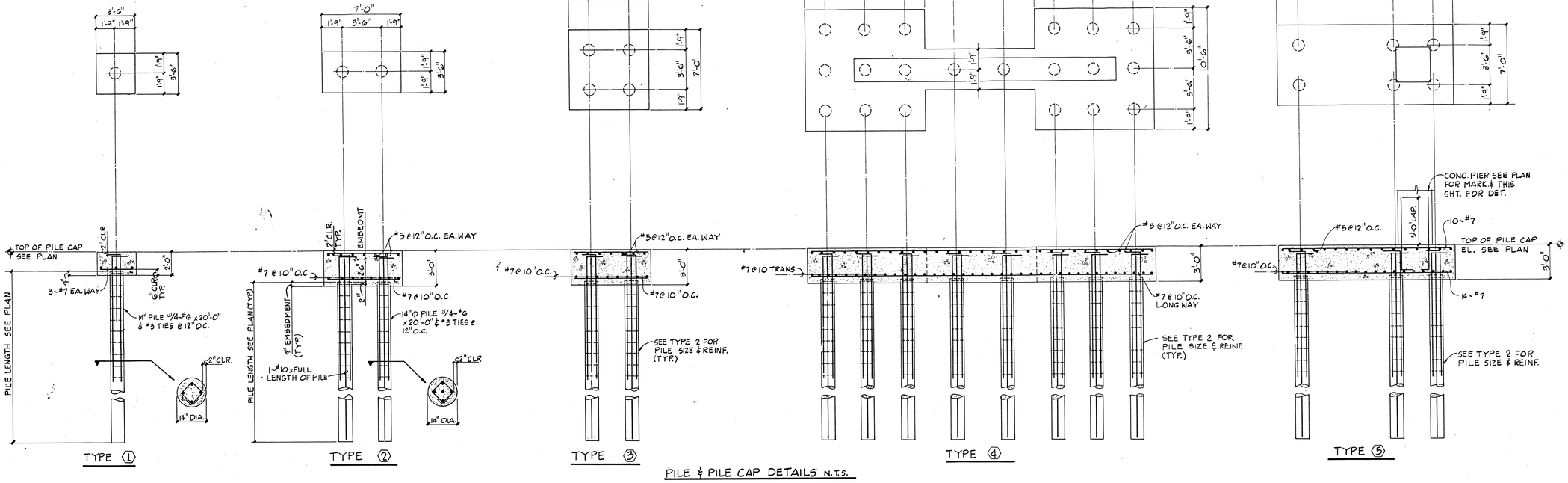
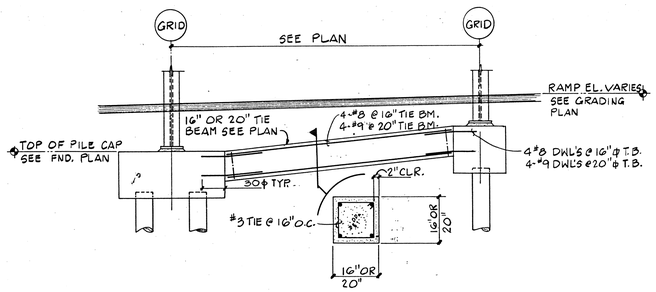
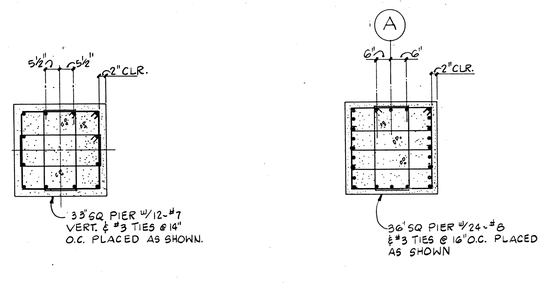
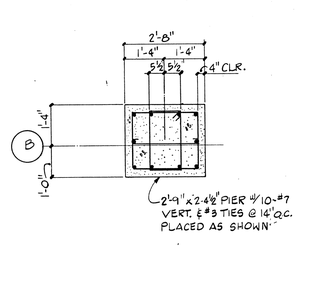


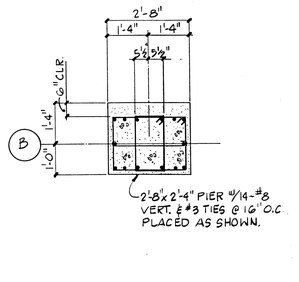
PILE & PILE CAP DETAILS N.T.S.

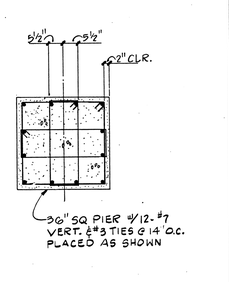


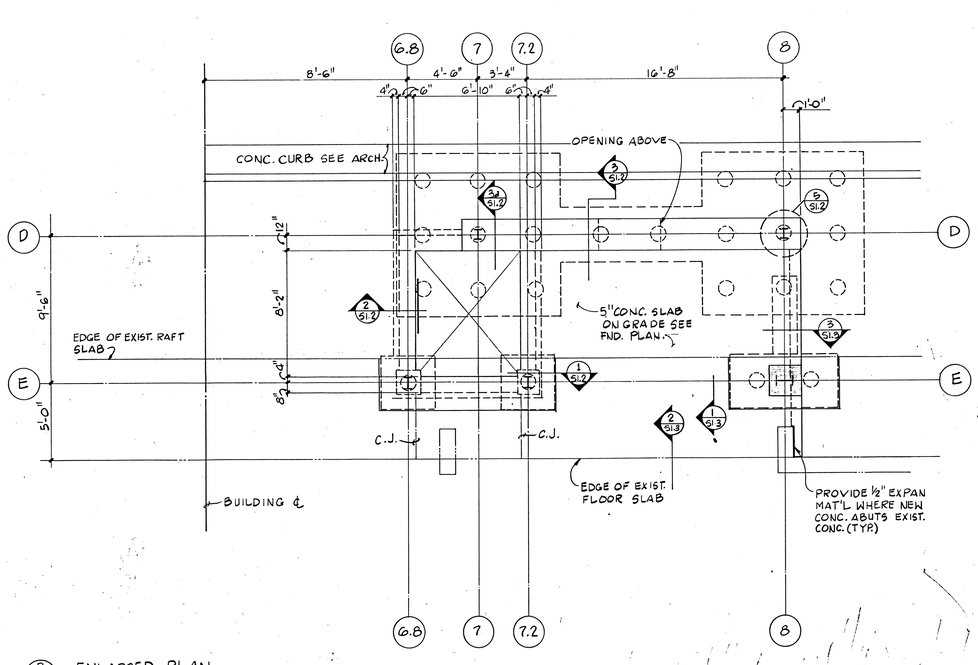
A TYPICAL TIE BEAM ELEVATION N.T.S.



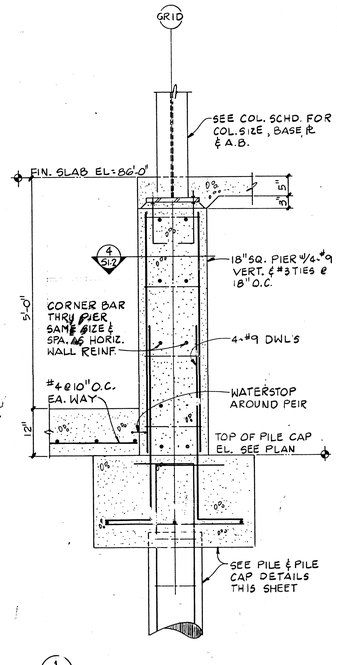




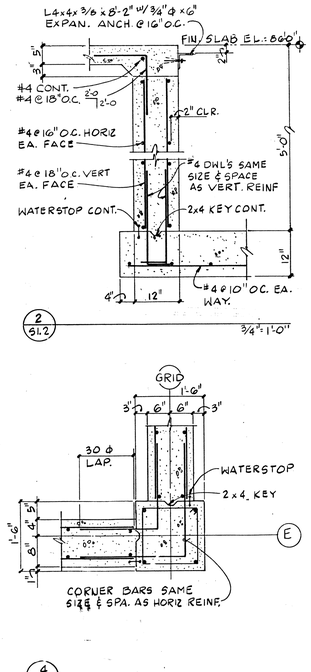




B ENLARGED PLAN 1/4" = 1'-0"

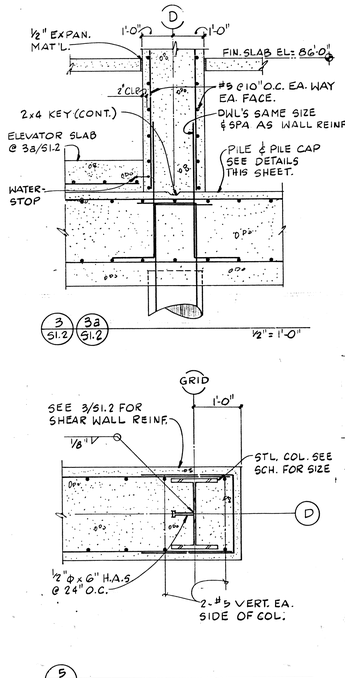


1 S1.2 3/4" = 1'-0"



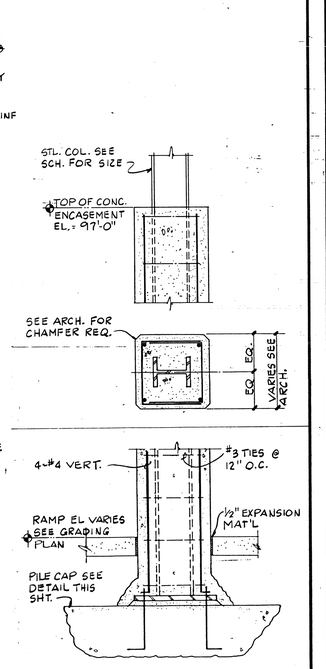
2 S1.2 3/4" = 1'-0"

4 S1.2 3/4" = 1'-0"



3 S1.2 3B S1.2 1/2" = 1'-0"

5 S1.2 3/4" = 1'-0"



TYP. COL. ENCASEMENT

DAVID M. GRIESER STATE OF NEW MEXICO NO. 6127 REGISTERED PROFESSIONAL ENGINEER

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102

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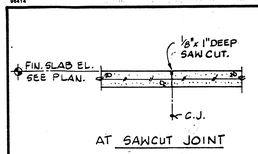
Project Number: 8506
Date: 4/14/86
Checked by: J.H.
Drawing Title: FOUNDATION DETAILS

Drawing S1.2
Sheet 9 of 111



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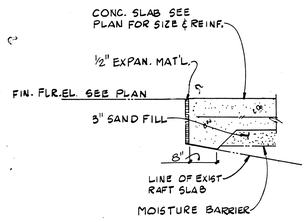

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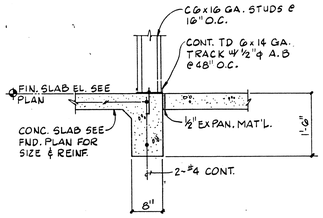

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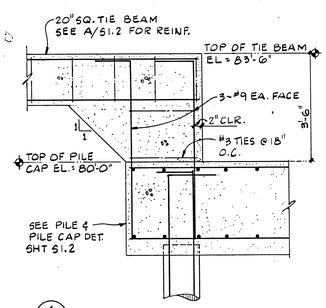
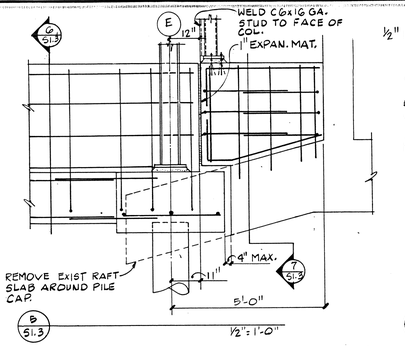
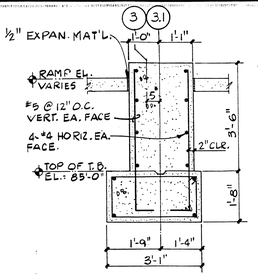


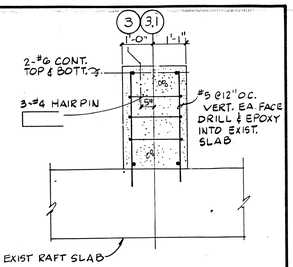
4 / 51.3 1/2"=1'-0"



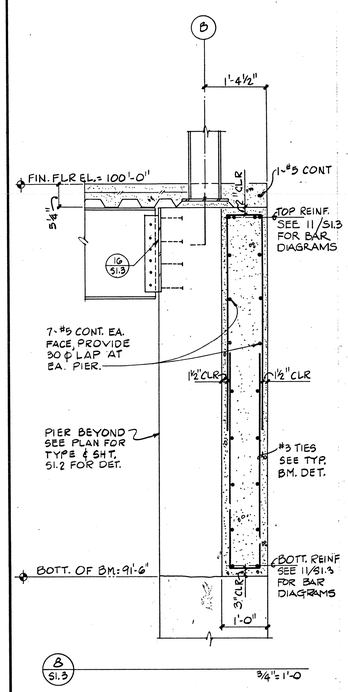
5 / 51.3 1/2"=1'-0"



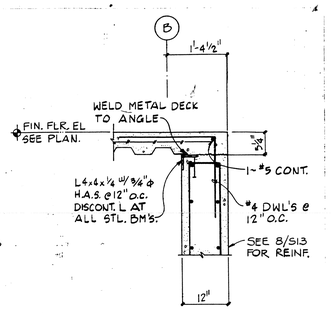
6 / 51.3 1/2"=1'-0"



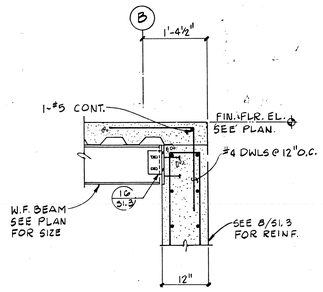
7 / 51.3 1/2"=1'-0"



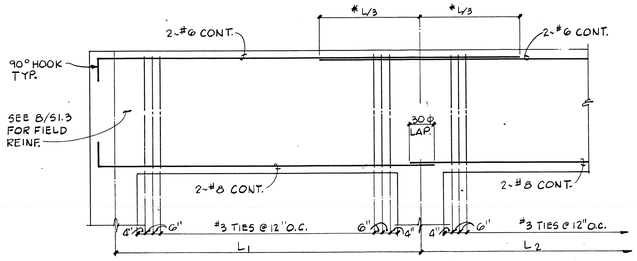
8 / 51.3 3/4"=1'-0"



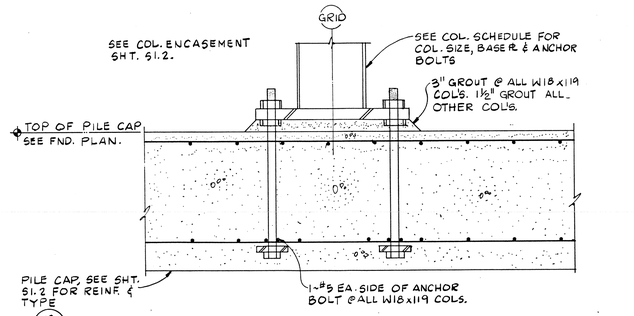
9 / 51.3 3/4"=1'-0"



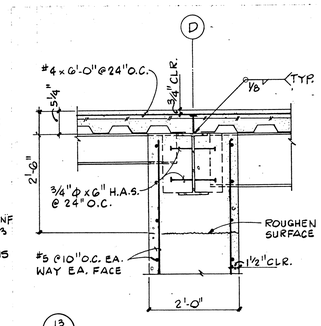
10 / 51.3 3/4"=1'-0"



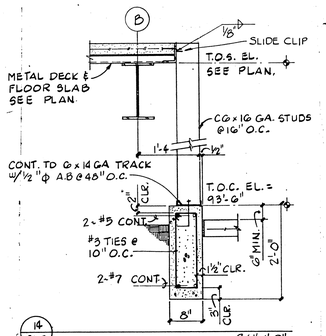
11 / 51.3 N.T.S.



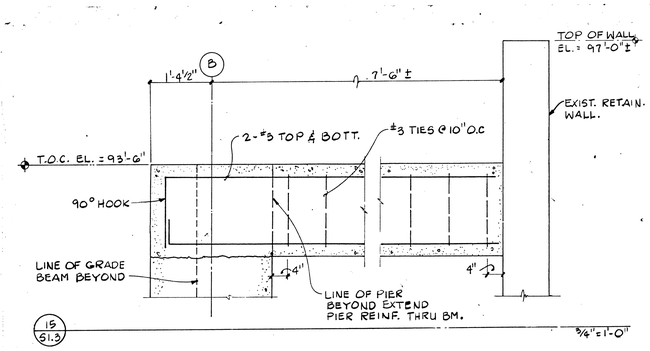
12 / 51.3 3/4"=1'-0"



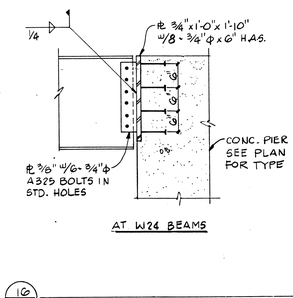
13 / 51.3 3/4"=1'-0"



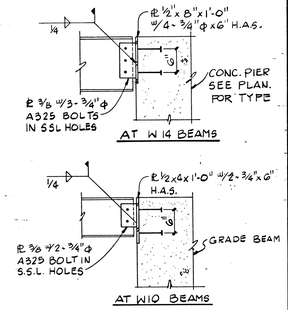
14 / 51.3 3/4"=1'-0"



15 / 51.3 3/4"=1'-0"



AT W24 BEAMS

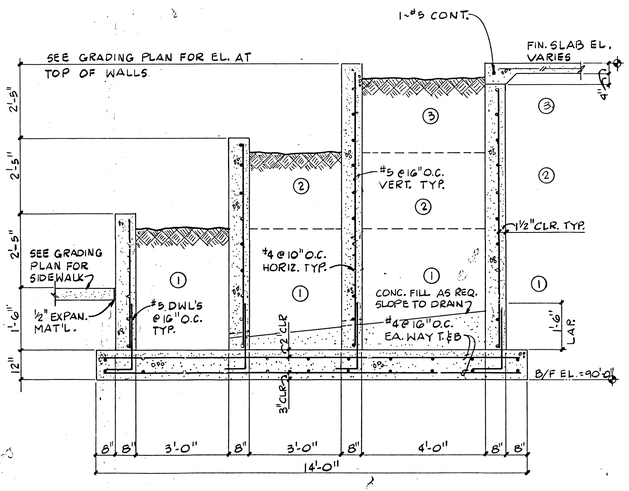


AT W14 BEAMS

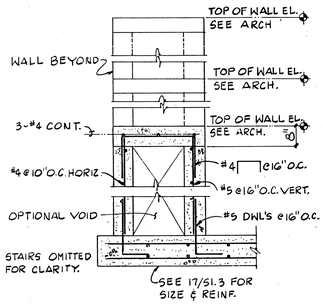
AT W10 BEAMS

16 / 51.3 N.T.S.

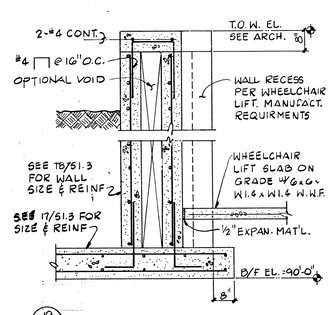
① DENOTES BACKFILL OPERATION SEQUENCE



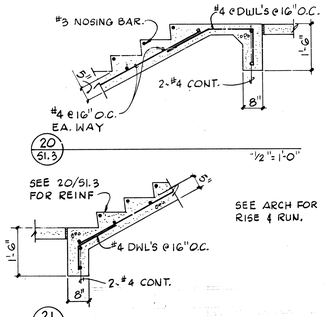
17 / 51.3 1/2"=1'-0"



18 / 51.3 1/2"=1'-0"

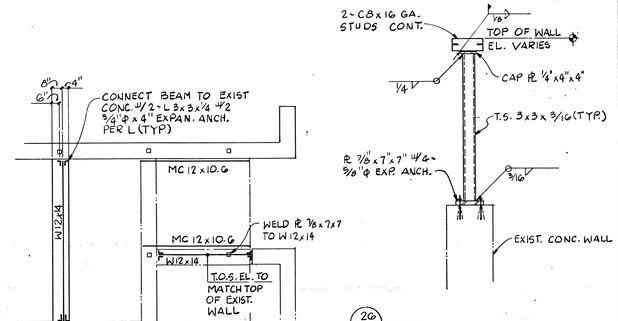


19 / 51.3 1/2"=1'-0"

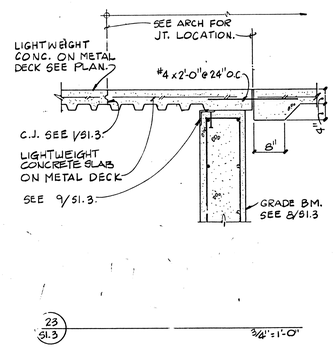


20 / 51.3 1/2"=1'-0"

21 / 51.3 1/2"=1'-0"

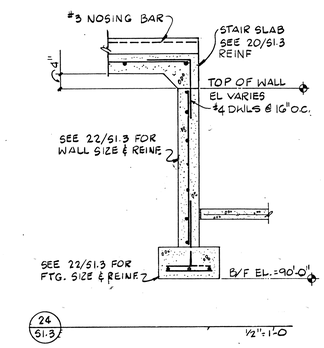


20 / 51.3 3/4"=1'-0"

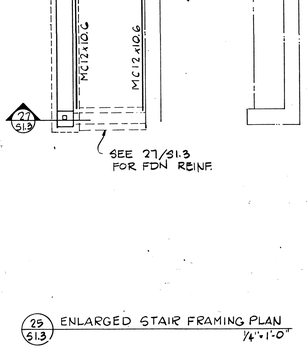


22 / 51.3 1/2"=1'-0"

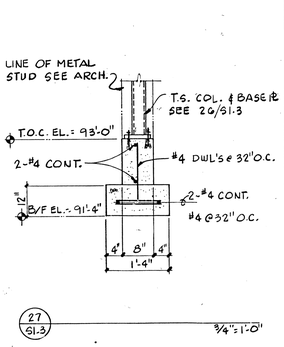
23 / 51.3 3/4"=1'-0"



24 / 51.3 1/2"=1'-0"



25 / 51.3 ENLARGED STAIR FRAMING PLAN 1/4"=1'-0"



27 / 51.3 3/4"=1'-0"

DAVID M. SALEEBY STATE OF NEW MEXICO 6879 REGISTERED PROFESSIONAL ENGINEER

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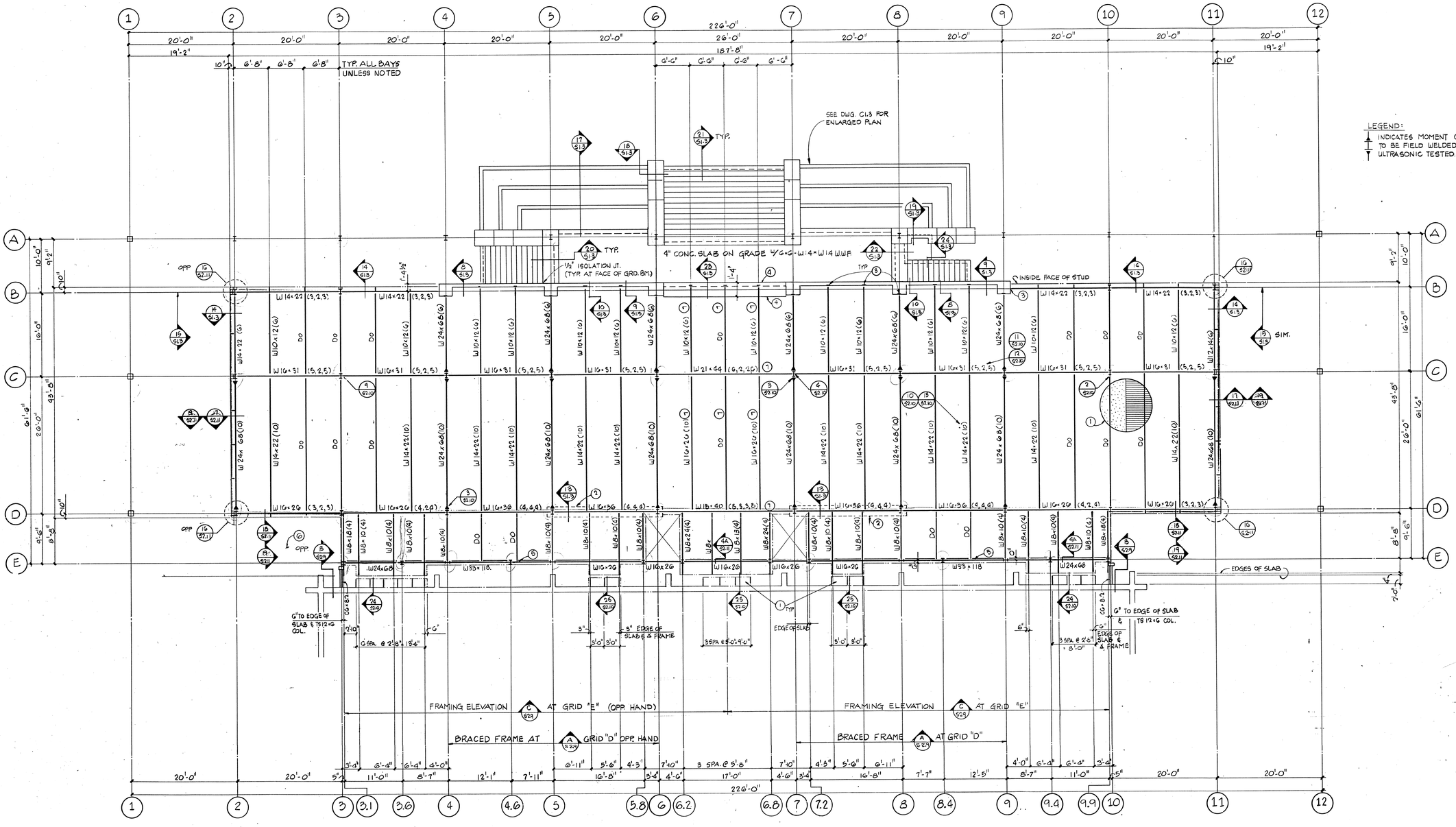
Project Number: 8506
Date: 4/14/86
Checked by: D.M.
Drawing Title: FOUNDATION DETAILS

Drawing S1.3
Sheet 10 of 111

KEYED NOTES:

1. 5-1/4" LIGHT WEIGHT CONCRETE SLAB W/6X6-W1.4XW1.4 W.W.F. IN FLAT SHEETS. OVER 2" TYPE W FORMLOCK 22 GA. DECK W/ GALVANIZED FINISH. ATTACH DECK TO SUPPORTS W/4-5/8" ⌀ PUDDLE WELDS PER 24" WIDE SHEET AND PARALLEL TO RIBS W/5/8" ⌀ PUDDLE WELDS @ 12" O.C. WELD SIDE LAPS W/3/8" X 1-1/4" TOP SEAM WELDS AT 36" O.C. WHERE PUDDLE WELDS AND STUDS COINCIDE THE PUDDLE WELDS MAY BE REPLACED BY THE STUDS.
2. SHEAR WALL BELOW.
3. EMBEDDED PLATES - SEE 16/S1.3.
4. EDGE OF LIGHT WEIGHT CONCRETE SLAB.
5. WT8X13 BETWEEN W8 BEAMS.
6. SEE ENLARGED STAIR PLAN - SHEET S1.3.
7. SHORE BEAMS AT MID SPAN UNTIL CONCRETE REACHES 70% OF f'c.



LEGEND:
▲ INDICATES MOMENT CONNEX TO BE FIELD WELDED & ULTRASONIC TESTED.

FIRST FLOOR FRAMING PLAN

FIN. FLR. EL. = 100'-0" T.O.S. EL. = 99'-6¾"

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

DAVID N. GRIEVES
STATE OF NEW MEXICO
NO. 6127
REGISTERED PROFESSIONAL ENGINEER

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Project Number: 8506
Date: 4/14/86
Checked by: M.A.Z.
Drawing Title: FIRST FLOOR FRAMING PLAN

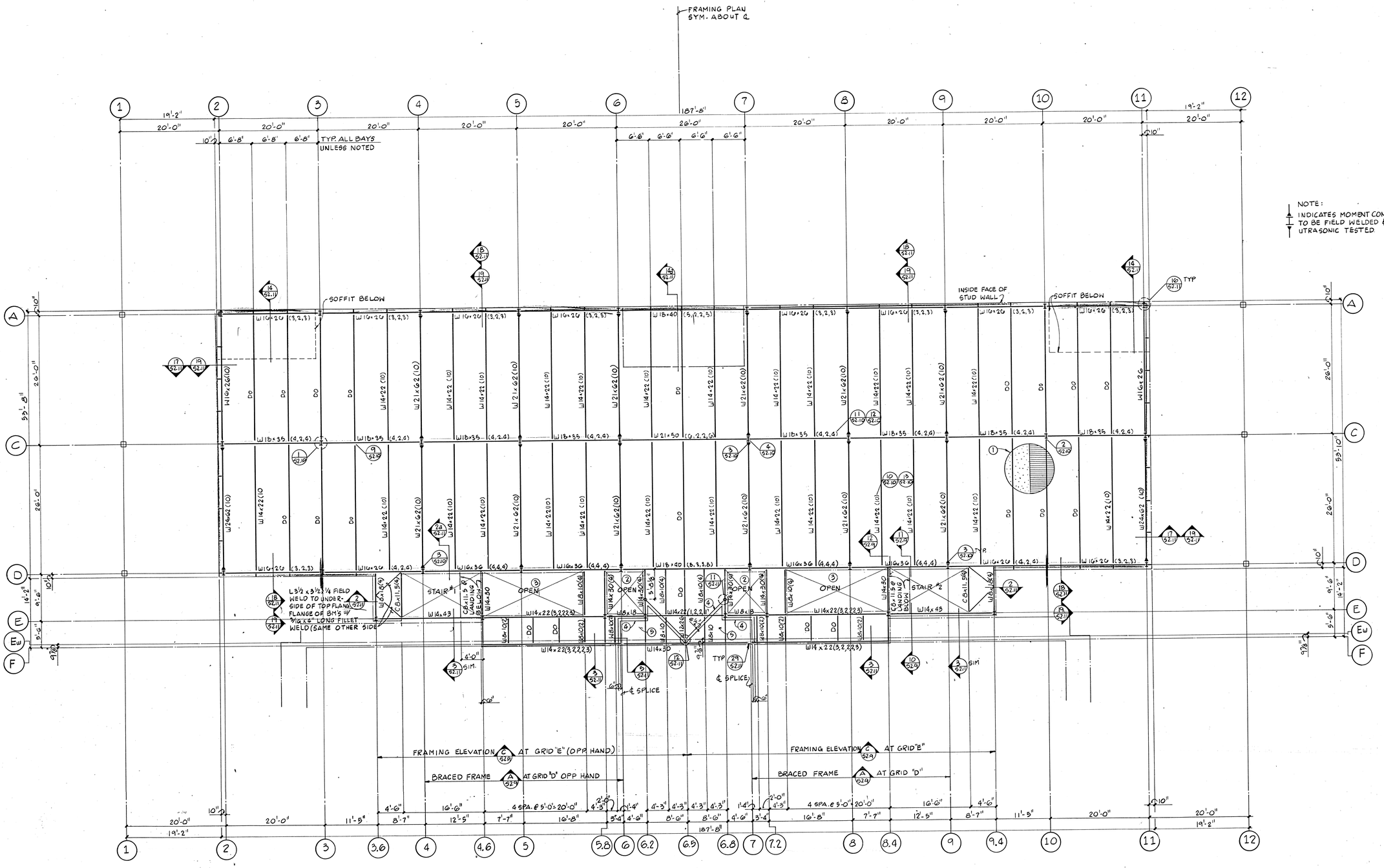
Drawing: S2.1
Sheet: 3 of 11

96414

DAVID N. GRIEVES
STATE OF NEW MEXICO
NO. 6127
REGISTERED PROFESSIONAL ENGINEER

KEYED NOTES:

1. 5-1/4" LIGHT WEIGHT CONCRETE SLAB W/6X6-W1.4XW1.4 W.W.F. IN FLAT SHEETS. ONE 2" TYPE W FORMLOCK 22 GA. DECK W/ GALVANIZED FINISH. ATTACH DECK TO SUPPORTS W/4-5/8" ϕ PUDDLE WELDS PER 24" WIDE SHEET AND PARALLEL TO RIBS W/5/8" ϕ PUDDLE WELDS @ 12" O.C. WELD SIDE LAPS W/3/8" X 1-1/4" TOP SEAM WELDS AT 36" O.C. WHERE PUDDLE WELDS AND STUDS COINCIDE. THE PUDDLE WELDS MAY BE REPLACED BY THE STUDS.
2. ELEVATOR OPENING.
3. MECHANICAL CHASE.
4. CONCRETE CURB.
5. SLOPE CONCRETE SLAB TO DRAIN.



FOURTH FLOOR FRAMING PLAN

FIN. FLR. EL. = 141'-0" T.O.S. EL = 140'-6¾"

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

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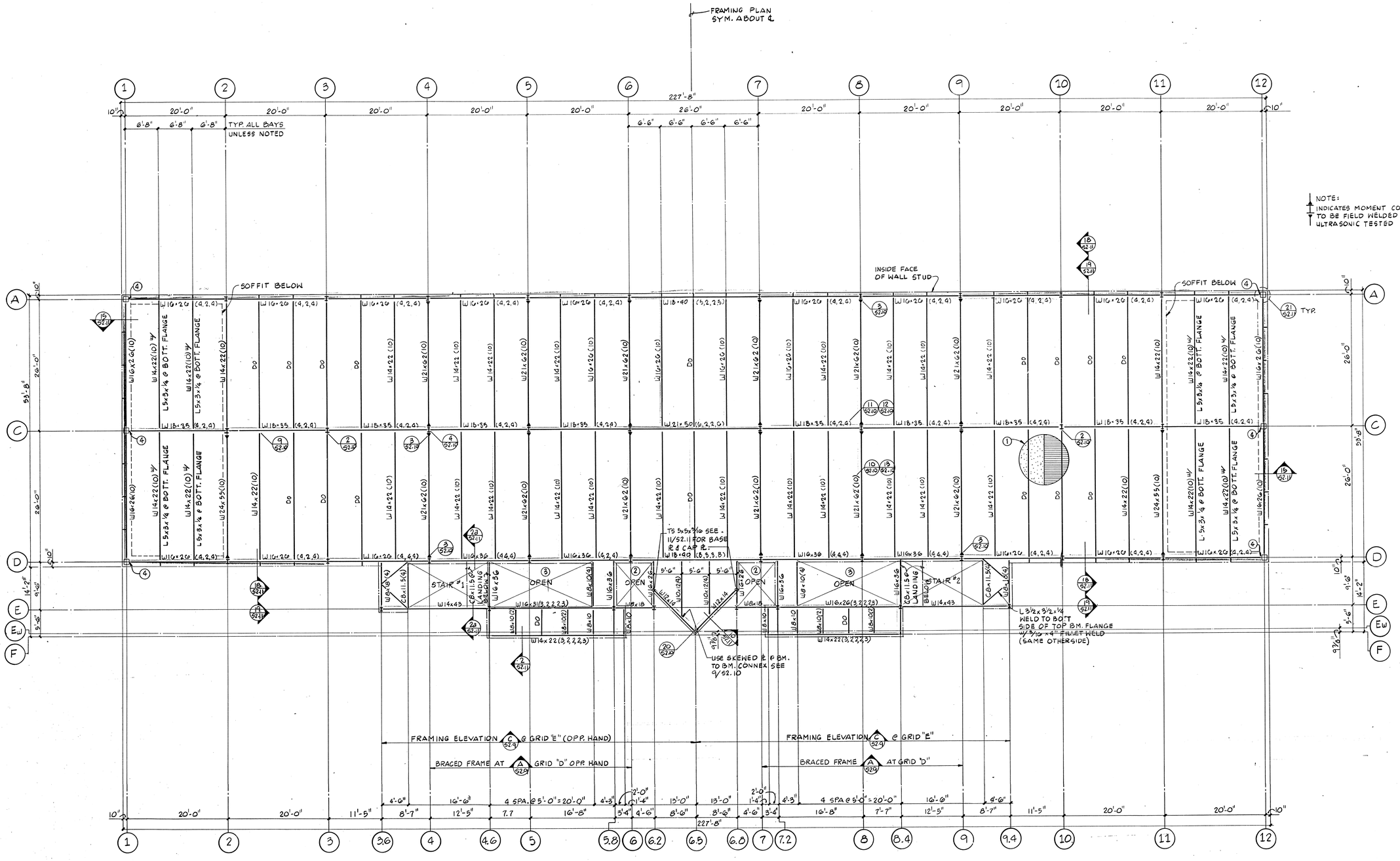
Project Number: 8506
Date: 4/14/86
Checked by: M.A.Z.
Drawing Title: FOURTH FLOOR FRAMING PLAN

Drawing S2.4
Sheet 14 of 111

96414

KEYED NOTES:

1. 5-1/4" LIGHT WEIGHT CONCRETE SLAB W/6X6-W1.4XW1.4 W.W.F. IN FLAT SHEETS. OVER 2" TYPE W FORMLOCK 22 GA. DECK W/ GALVANIZED FINISH. ATTACH DECK TO SUPPORTS W/4-5/8" ϕ PUDDLE WELDS PER 24" WIDE SHEET AND PARALLEL TO RIBS W/5/8" ϕ PUDDLE WELDS @ 12" O.C. WELD SIDE LAPS W/3/8" X 1-1/4" TOP SEAM WELDS AT 36" O.C. WHERE PUDDLE WELDS AND STUDS COINCIDE THE PUDDLE WELDS MAY BE REPLACED BY THE STUDS.
2. ELEVATOR OPENING.
3. MECHANICAL CHASE.
4. THIS BEAM TO COLUMN CONNECTION MAY BE MADE BEFORE T.S. COLUMN IS ERECTED.



FIFTH FLOOR FRAMING PLAN

FIN. FLR. EL. = 154'-0" T.O.S. EL. = 153'-6¾"

SCALE: 1/8 = 1'-0"

DAVID M. GRIEVES STATE OF NO. 6127 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

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Project Number: 8506
Date: 4/14/86
Checked by: M.A.Z.
Drawing Title: FIFTH FLOOR FRAMING PLAN

Drawing S2.5
Sheet 15 of 111

96414

KEYED NOTES:

1. 1-3/8" NOMINAL STANDARD VENTING 24 GA. DECK W/2" HEXAGONAL MESH WOVEN FROM 19 GA. WIRE AND 16 GA. GALVANIZED WIRE AT 3-1/2" O.C. EMBEDDED IN INSULATED CONCRETE. DECK TO SUPPORTS PERPENDICULAR TO RIBS AT ALL GRIDS WITH WELD PATTERN A. INTERMEDIATE SUPPORTS WITH WELD PATTERN B. SIDE LAPS AND PERIMETER TO BE WELDED TO SUPPORTS W/5/8" ϕ PUDDLE WELDS @ 12" O.C.

PATTERN 'A' PATTERN 'B'

'•' INDICATES 5/8 ϕ PUDDLE WELD THRU STANDARD WELD WASHER.

2. 5-1/4" LIGHT WEIGHT CONCRETE SLAB W/6X6-W1.4XW1.4 W.W.F. IN FLAT SHEETS. OVER 2" TYPE W FORMLOCK 22 GA. DECK W/ GALVANIZED FINISH. ATTACH DECK TO SUPPORTS W/4-5/8" ϕ PUDDLE WELDS PER 24" WIDE SHEET AND PARALLEL TO RIBS W/5/8" ϕ PUDDLE WELDS @ 12" O.C. WELD SIDE LAPS W/3/8" X 1-1/4" TOP SEAM WELDS AT 36" O.C. WHERE PUDDLE WELDS AND STUDS COINCIDE THE PUDDLE WELDS MAY BE REPLACED BY THE STUDS.

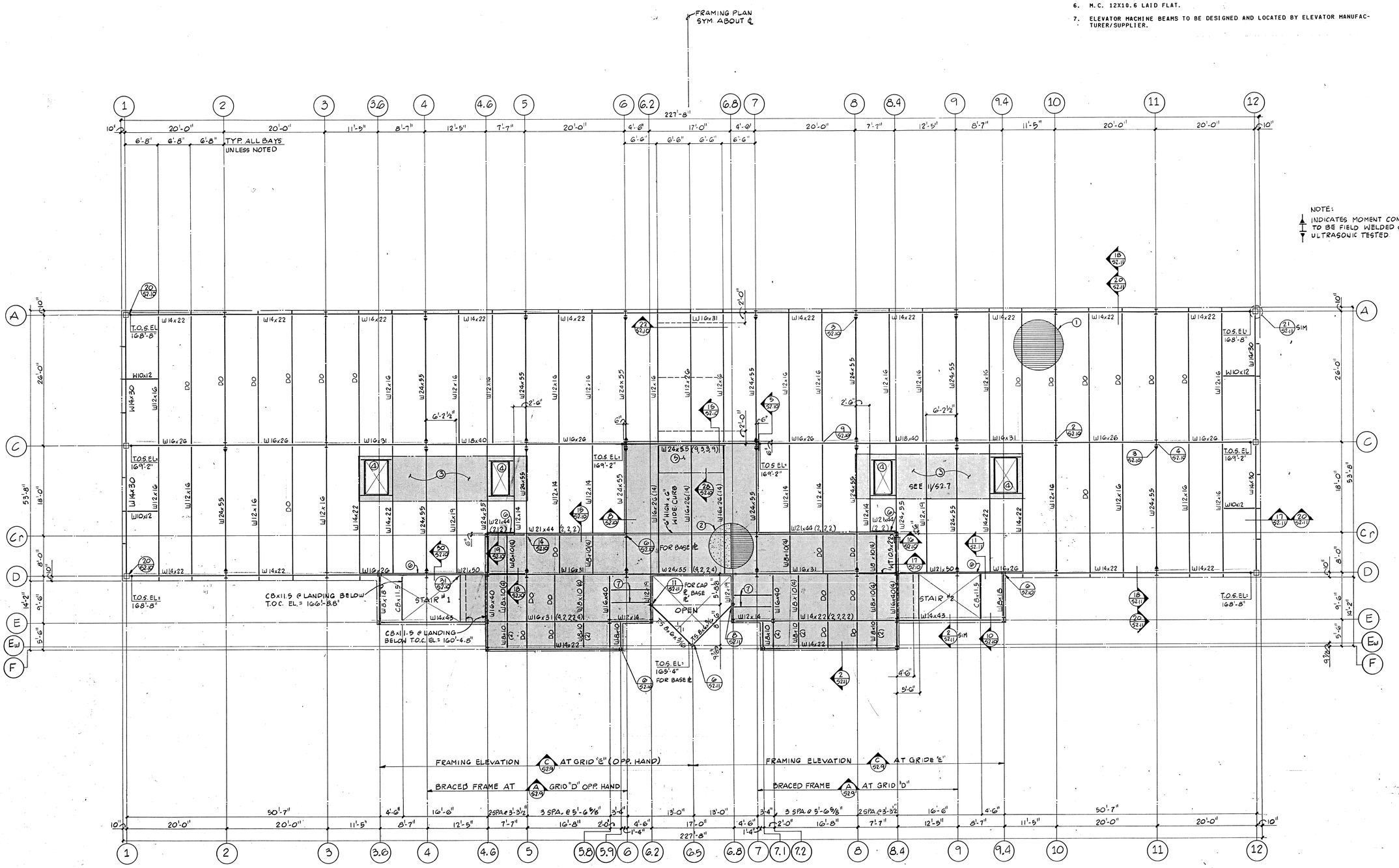
3. 4" LIGHT WEIGHT CONCRETE TOPPING W/6X6-W1.4XW1.4 W.W.F. OVER 1/2" NEOPRENE PAD OVER 5-1/4" (MIN.) LIGHTWEIGHT CONCRETE STRUCTURAL SLAB W/#3 @ 12" O.C. EACH WAY OVER ROOF DECK. SEE NOTE 1 FOR METAL DECK WELDING.

4. MECHANICAL OPENING. SEE 26/S2.10.

5. 4" HIGH LIGHT WEIGHT CONCRETE HOUSEKEEPING PAD - SEE MECHANICAL DRAWINGS FOR LOCATION.

6. M.C. 12X10.6 LAID FLAT.

7. ELEVATOR MACHINE BEAMS TO BE DESIGNED AND LOCATED BY ELEVATOR MANUFACTURER/SUPPLIER.



ROOF AND PENTHOUSE FLOOR FRAMING PLAN

ROOF T.O.S. VARIES. PETHOUSE FIN. FLR. EL. = 170'-0" T.O.S. EL. = 169'-6 3/4"

SCALE: 1/8 = 1'-0"

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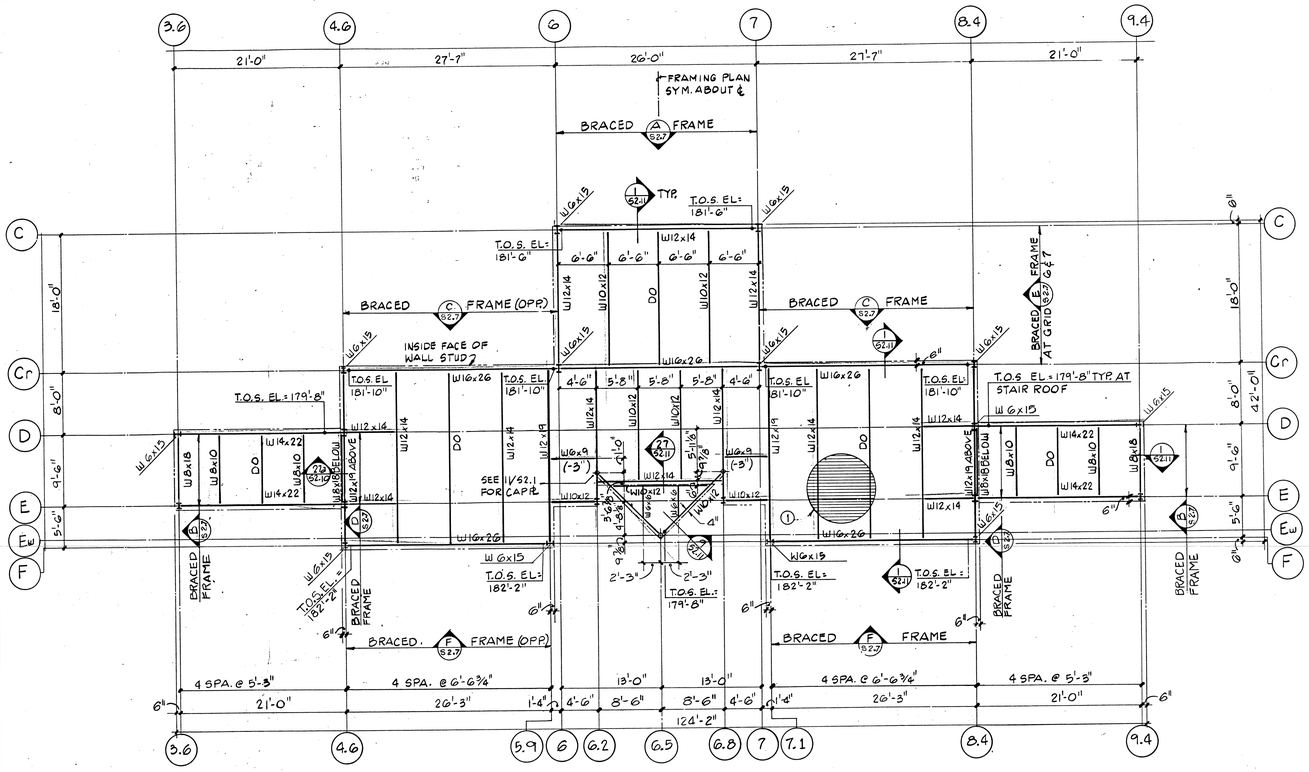
Project Number: 8506
Date: 4/14/86
Checked by: M.A.Z.
Drawing Title: ROOF AND PENTHOUSE FLOOR FRAMING PLAN

Drawing: S2.6
Sheet: 6 of 11



PENTHOUSE ROOF FRAMING PLAN

T.O.S. EL. VARIES

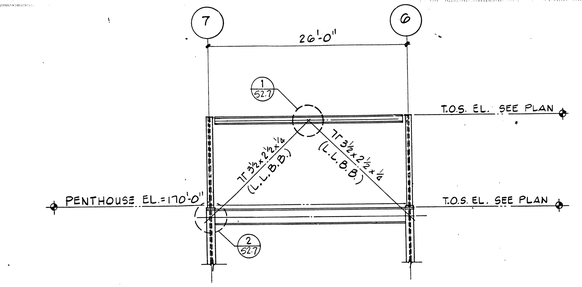
SCALE: 1\8"=1'-0"

KEYED NOTES:

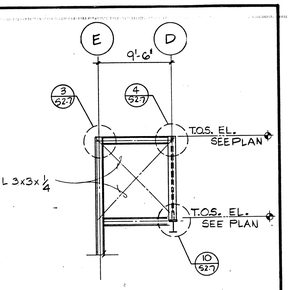
1. 1-3/8" NOMINAL STANDARD VENTING 24 GA. DECK W/2" HEXAGONAL MESH WOVEN FROM 19 GA. WIRE AND 16 GA. GALVANIZED WIRE AT 3-1/2" O.C. EMBEDDED IN INSULATED CONCRETE. DECK TO SUPPORTS PERPENDICULAR TO RIBS AT ALL GRIDS WITH WELD PATTERN A. INTERMEDIATE SUPPORTS WITH WELD PATTERN B. SIDE LAPS AND PERIMETER TO BE WELDED TO SUPPORTS W/5/8" ϕ PUDDLE WELDS @ 12" O.C.

PATTERN 'A' PATTERN 'B'

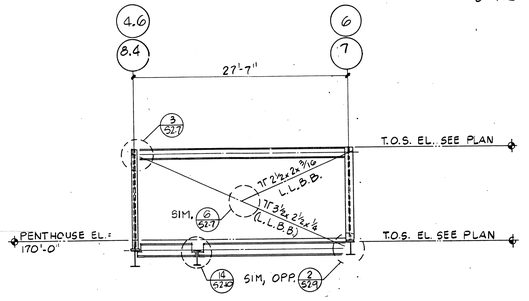
"●" INDICATES 5/8 ϕ PUDDLE WELD THRU STANDARD WELD WASHER.



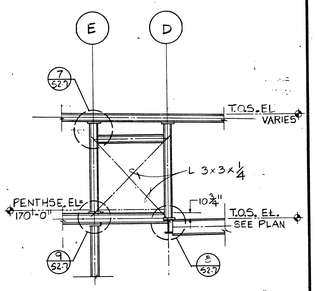
Ⓐ (52.7) BRACED FRAME ELEVATION 1/8"=1'-0"



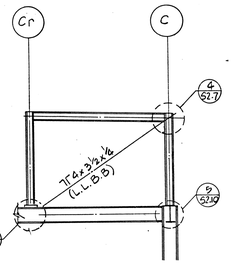
Ⓑ (52.7) BRACED FRAME ELEVATION 1/8"=1'-0"



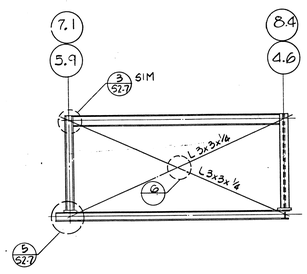
Ⓒ (52.7) BRACED FRAME ELEVATION 1/8"=1'-0"



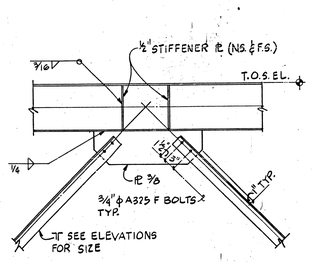
Ⓓ (52.7) BRACED FRAME ELEVATION 1/8"=1'-0"



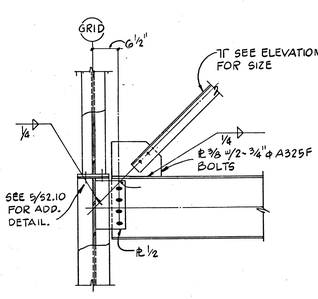
Ⓔ (52.7) BRACED FRAME ELEVATION



Ⓕ (52.7) BRACED FRAME ELEVATION



1 (52.7) 3/4"=1'-0"



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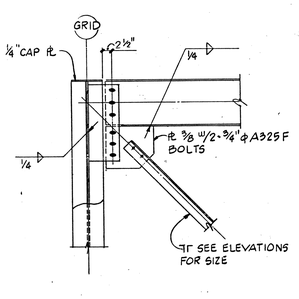

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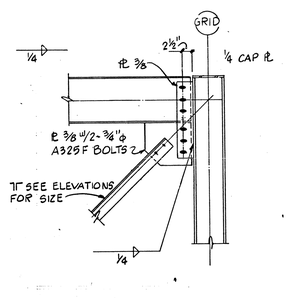
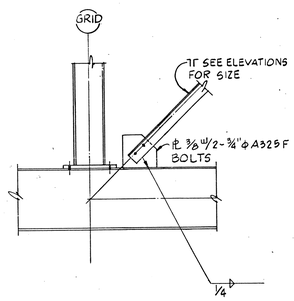
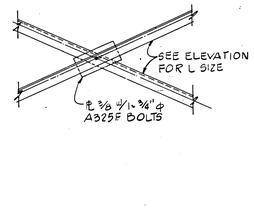


4 (52.7) 3/4"=1'-0"



5 (52.7) 3/4"=1'-0"



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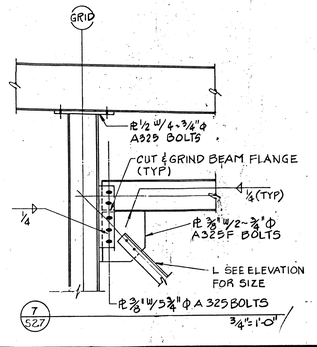

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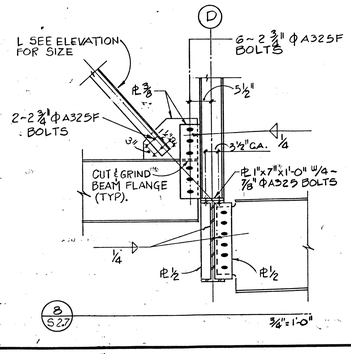

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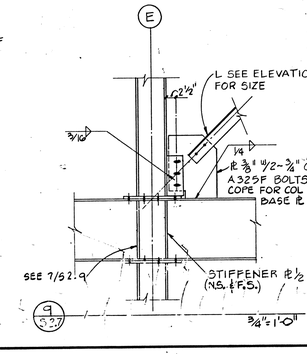
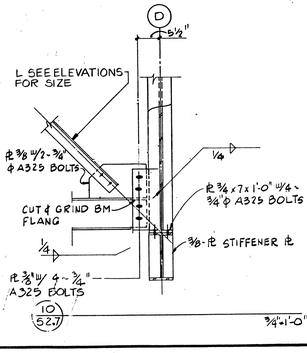


9 (52.7) 3/4"=1'-0"



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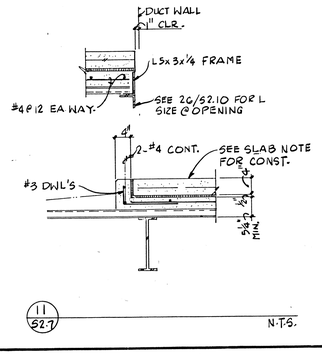


11 (52.7) N.T.S.

DAVID H. GRIEVES STATE OF NEW MEXICO NO. 6127 REGISTERED PROFESSIONAL ENGINEER

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102

Hutchinson Brown Burton & Partners, Inc. ● 202 Central Avenue, SE ● Albuquerque, New Mexico 87102 ● (505) 842-5630

Project Number: 8506
Date: 4/14/86
Checked by: M.A.Z.
Drawing Title: PENTHOUSE ROOF FRAMING PLAN

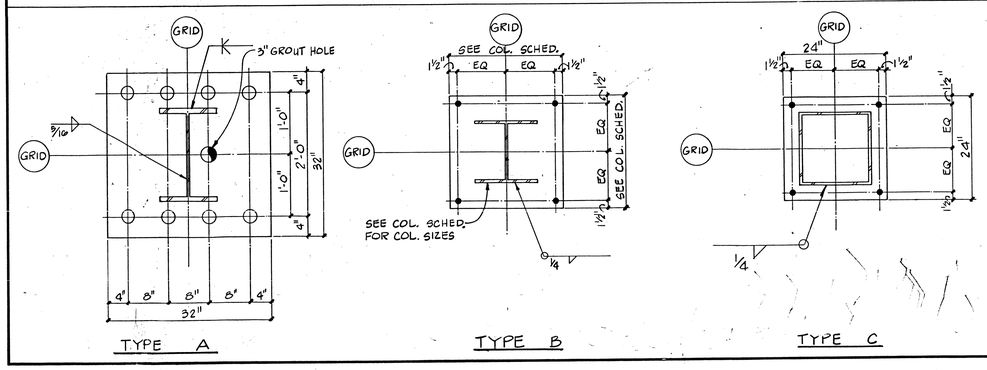
Drawing: S2.7
Sheet: 17 of 111

96414

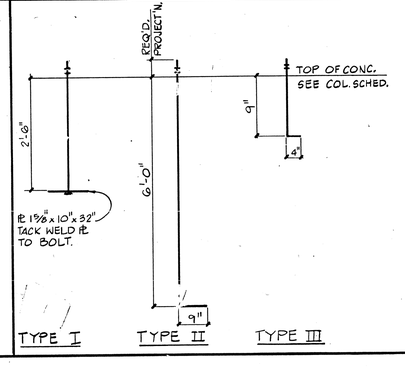
COLUMN SCHEDULE

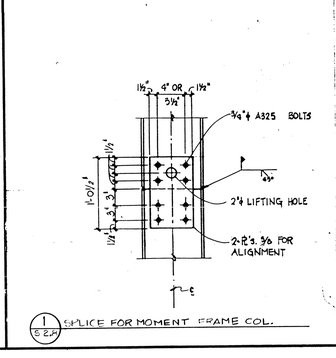
MARK	A-1, C-1, D-1 A-12, C-12, D-12	A-2, A-11	A-3, A-10	A-4, A-9	A-5, A-6 A-7, A-8	B-2, B-11	B-3, B-10	C-2, C-11	C-3, C-10	C-4, C-5 C-8, C-9	C-6, C-7	D-2, D-11	D-3, D-10	D-4, D-9	D-5, D-8	D-6, D-7	E-3.1, E-9.9	E-4, E-5 E-8, E-9	E-5.8, E-7.2	E-6.2, E-6.8	E-3.6 E-9.4	E-4.6 E-8.4	Ew-6.5
PENTHOUSE ROOF EL. VARIES											W 6x15											W 8x21	
5th FLOOR EL. = 154'-0"	4"±	10 S2.8																	W8x35	W8x24	W8x24	W8x35	T.S. 8x8x5/16
4th FLOOR EL. = 141'-0"		30" TYP ℄ SPLICE	3/4	W12x40	W18x65	W18x65	1 S2.8	W18x76	W12x40	W18x71	W18x71	W18x76	W12x40	W18x71	W18x71	W18x71			W8x35	7A S2.8	2 S2.8	30" TYP ℄ SPLICE	W8x35	12 S2.1
3rd FLOOR EL. = 128'-0"	T.S. 16x16x3/8	W12x72	W12x53	W18x119	W18x119			W18x119	W12x72	W18x119	W18x119	W18x119	W12x53	W18x119	W18x119	W18x119				W8x24	W8x24	7A S2.8	W8x35	
2nd FLOOR EL. = 115'-0"							W12x40										W8x24	W8x35			7A S2.8	8A ℄ 9A S2.8	8 ℄ 9 S2.8
1st FLOOR EL. = 100'-0"						W12x40														W8x24			
BASEMENT VARIES																							
TOP OF CONC.	93'-6"	93'-6"	93'-6"	93'-1"	92'-9"	93'-0"	93'-0"	80'-0"	85'-0"	83'-6"	83'-6"	86'-6"	85'-0"	83'-6"	80'-0"	80'-0"	85'-0"	83'-6"	85'-4"	85'-4"			
BASE PLATE SIZE	1½"x 24"x24"	1⅜"x 22"x22"	1"x 16"x16"	3"x 32"x 32"	3"x 32"x32"	1⅜"x 15"x15"	1⅜"x 15x15	3"x32"x 32"	1¾"x 22"x22"	3"x 32"x32"	3½ 32"x32"	3"x 32'x32"	1"x 16"x 16	3"x 32"x 32"	3"x 32"x32"	3"x32"x 32"	7/8"x 11"x11"	1⅜"x 15x15"	1¼"x 14"x 14"	7/8"x 11"x11"			
BASE PLATE TYPE	C	B	B	A	A	B	B	A	B	A	A	A	B	A	A	A	B	B	B	B			
A307 ANCHOR BOLTS	4-1" ϕ	4-⅝" ϕ	4-¾" ϕ	8-2¼" ϕ	8-2¼" ϕ	4-⅜" ϕ	4-⅜" ϕ	8-2¼" ϕ	4-¾" ϕ	8-2¼" ϕ	8-2¼" ϕ	8-2¼" ϕ	4-¾" ϕ	8-2¼" ϕ	8-2¼" ϕ	8-2¼" ϕ	4-¾" ϕ	4-¾" ϕ	4-¾" ϕ	4-¾" ϕ			
ANCHOR BOLT TYPE	III	III	III	II	II	III	III	I	III	I	I	I	III	I	I	I	III	III	III	III			

BASE PLATE TYPES

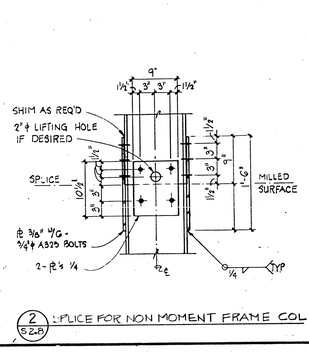


ANCHOR BOLT TYPES

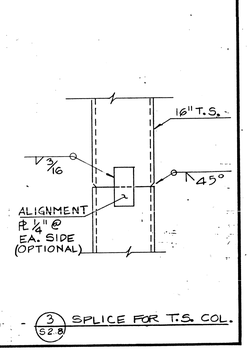




1 / S2.8 SPLICE FOR MOMENT FRAME COL.



2 / S2.8 SPLICE FOR NON MOMENT FRAME COL.



3 / S2.8 SPLICE FOR T.S. COL.

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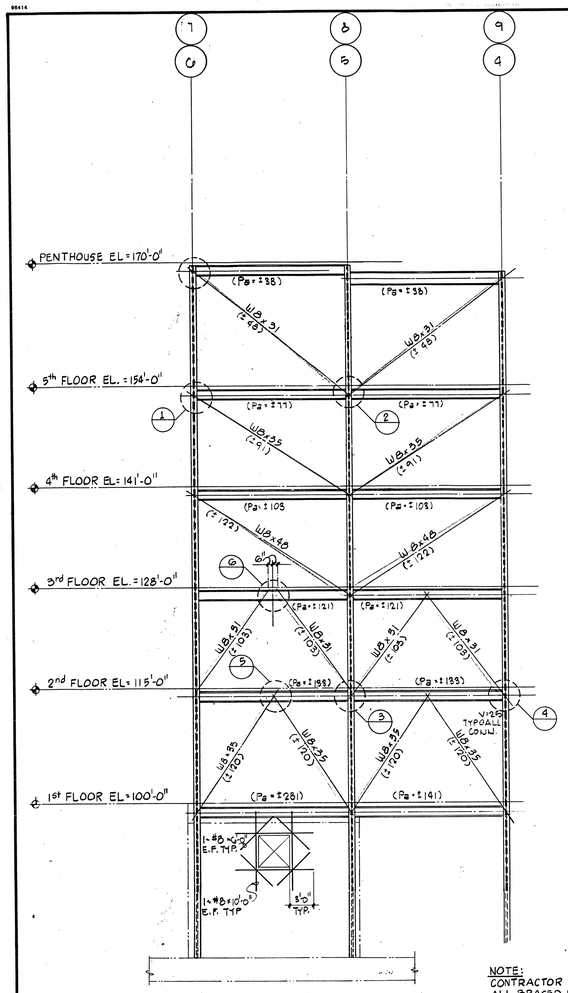
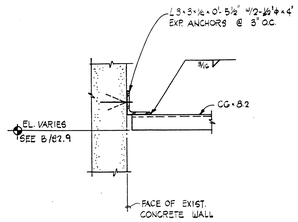
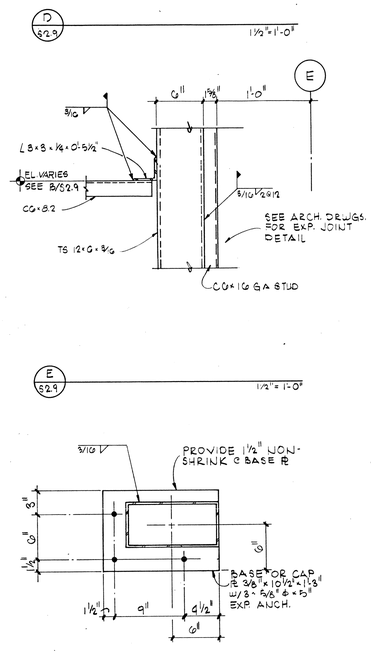
Project Number: 8506
Date: 4/14/86
Checked by: M.A.Z.
Drawing Title: COLUMN SCHEDULE

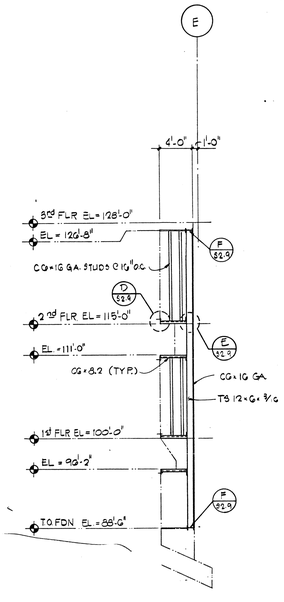
Drawing: S2.8
Sheet: 15 of 111

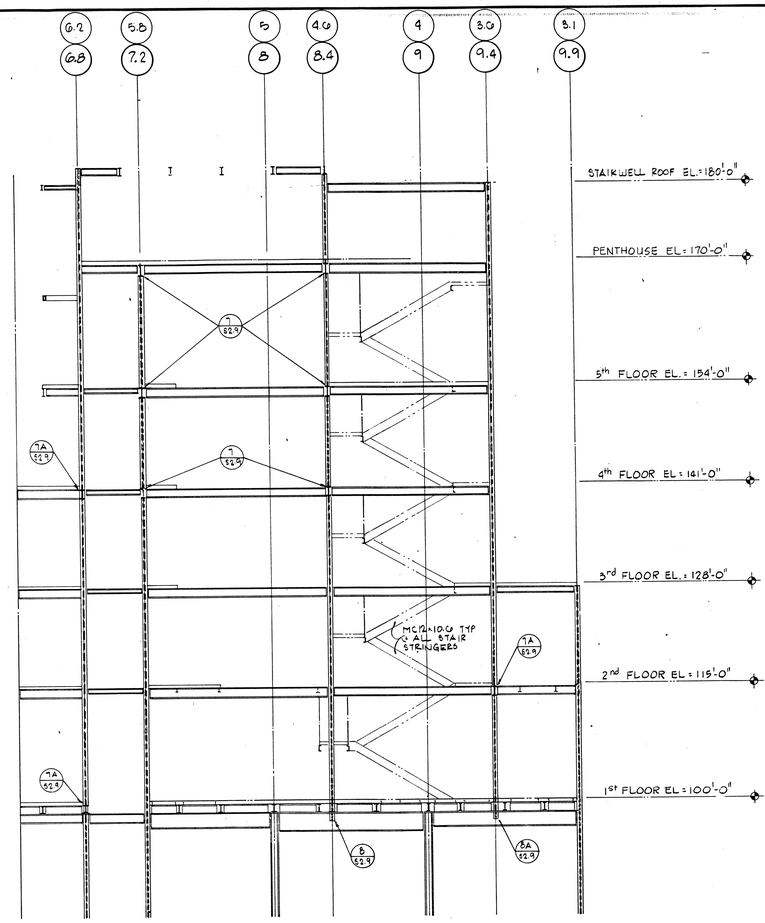


NOTE:
CONTRACTOR SHALL DESIGN ALL BRACED FRAME CONNEX. PER DETAILS & FORCES SHOWN







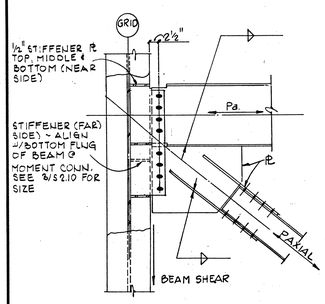


A S2.9 BRACED FRAME ELEVATION 1/8"=1'-0"

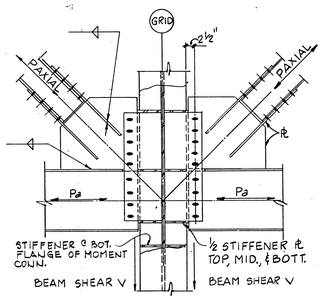
B S2.9 WALL FRMG. ELEV. GRIDS 3.1 & 9.9 1/8"=1'-0"

F S2.9 1 1/2"=1'-0"

C S2.9 STEEL FRAME ELEVATION @ GRID E 1/8"=1'-0"



1 S2.9 3/4"=1'-0"



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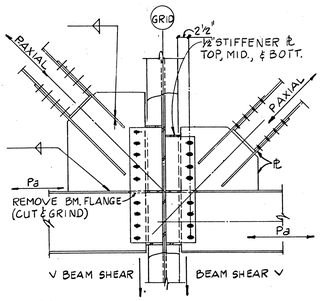

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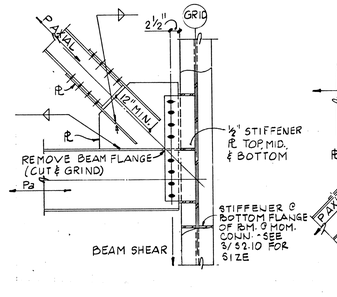

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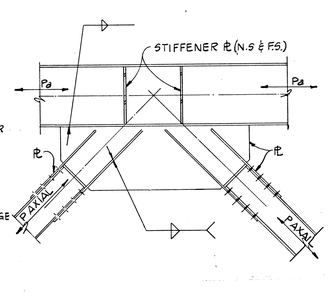
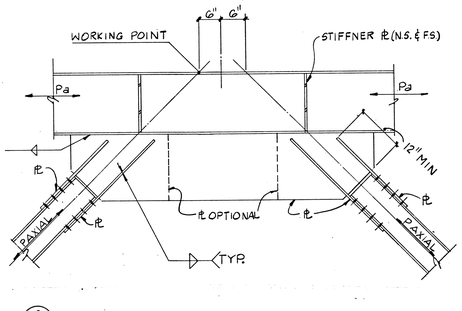
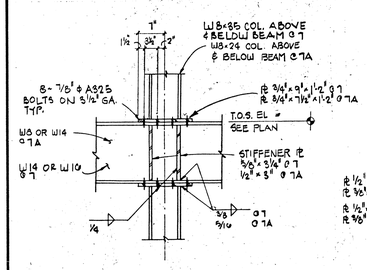
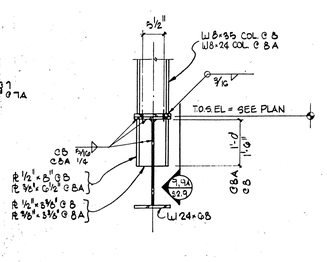


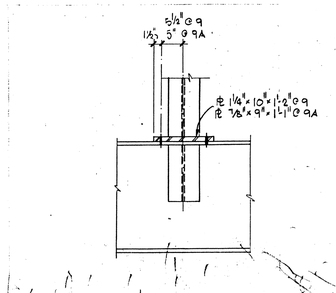
5 S2.9 3/4"=1'-0"

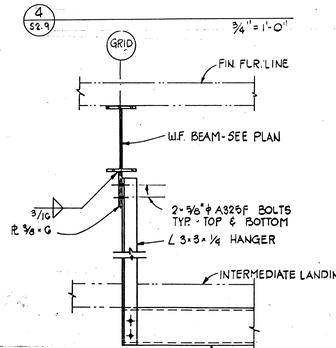


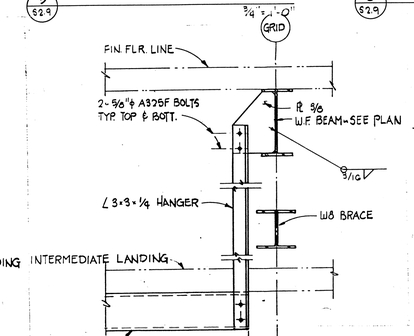
6 S2.9

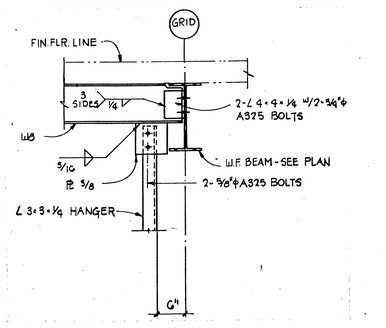












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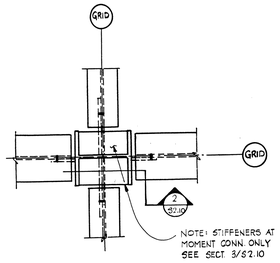
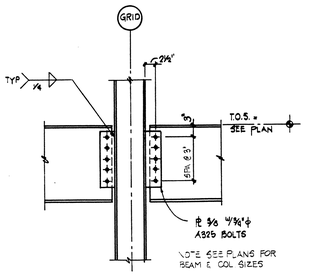
Drawing Title: BRACED FRAME ELEVATIONS AND DETAILS

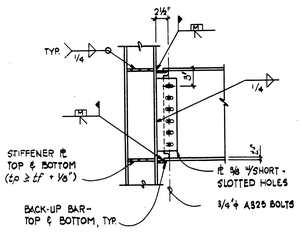
Drawing: S2.9
Sheet 19 of 111



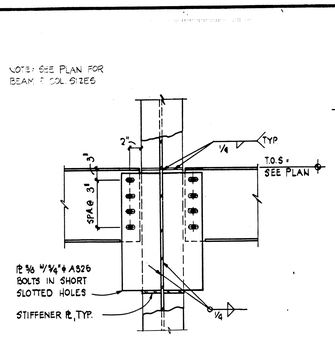
1 S2.10 PLAN AT TYP. BEAM TO COLUMN N.T.S.



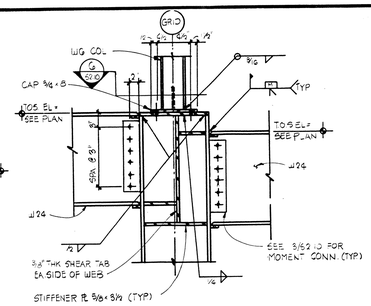
2 S2.10 TYP. NON-MOMENT FRAME CONN. N.T.S.



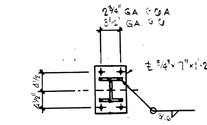
3 S2.10 TYP MOMENT CONNECTION N.T.S.



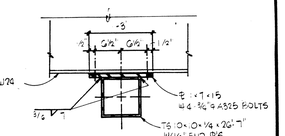
4 S2.10 3/4"=1'-0"



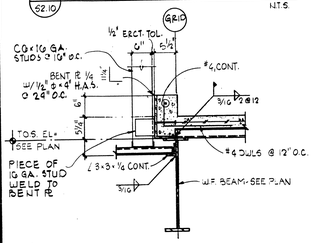
5 S2.10 3/4"=1'-0"



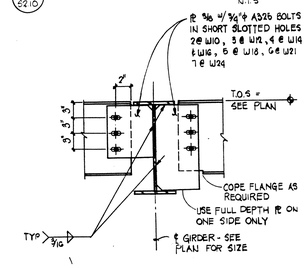
6 G/A S2.10 3/4"=1'-0"



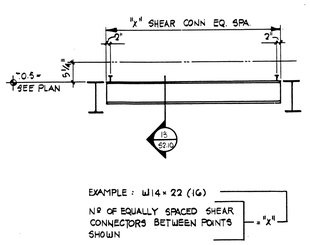
7 S2.10 3/4"=1'-0"



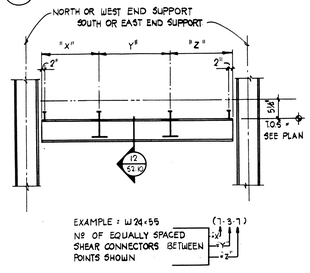
8 S2.10 3/4"=1'-0"



9 S2.10 3/4"=1'-0"



10 S2.10 TYP. COMPOSITE BEAM DETAIL N.T.S.



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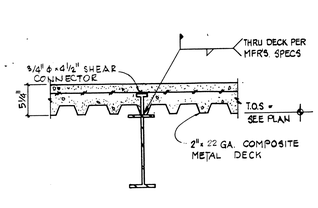

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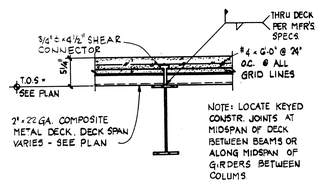

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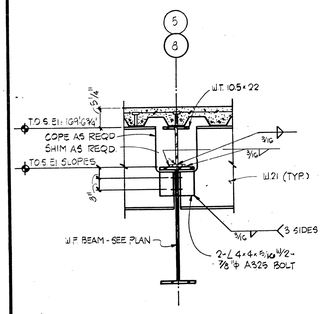

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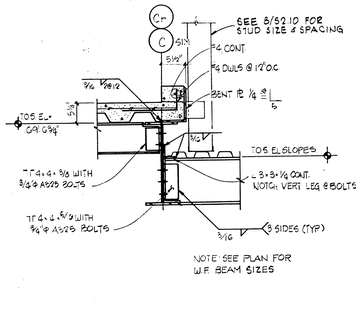

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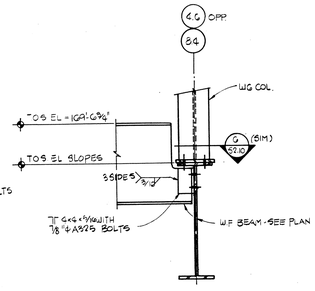

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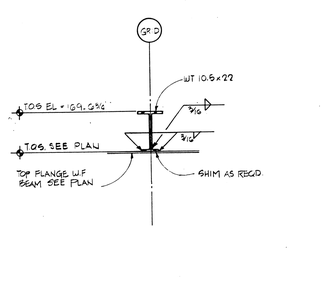

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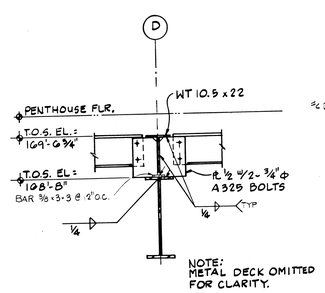

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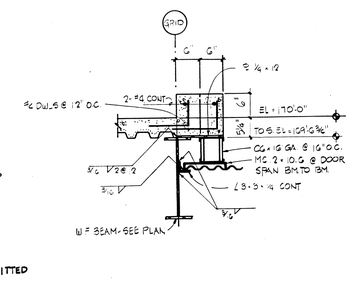

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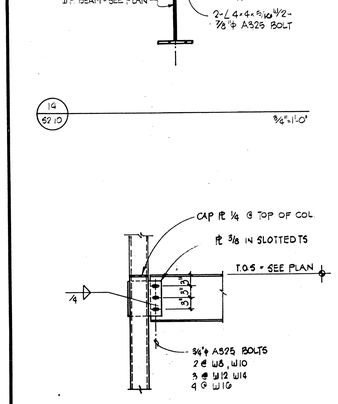

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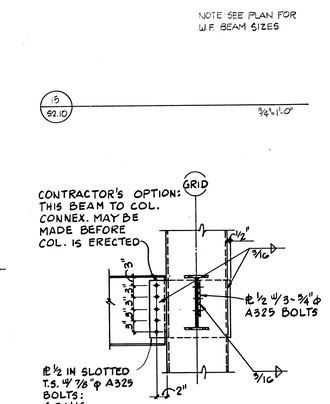

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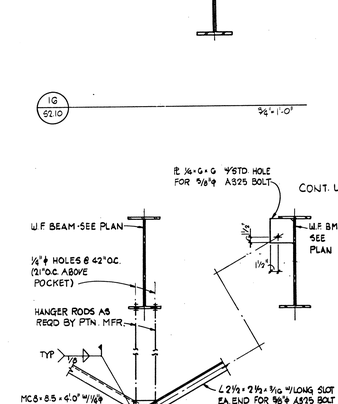

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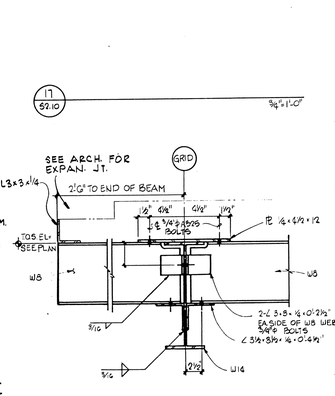
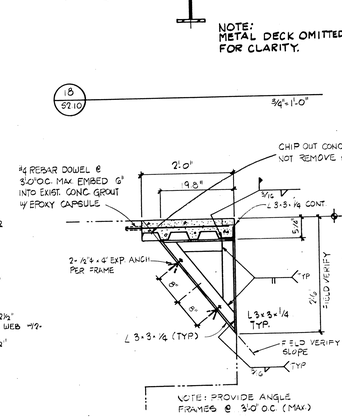


23 S2.10



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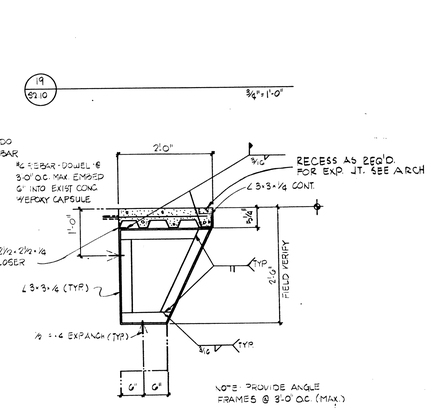

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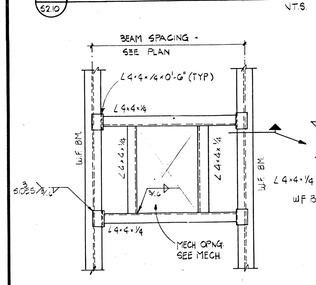

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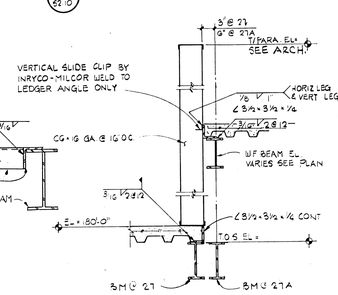
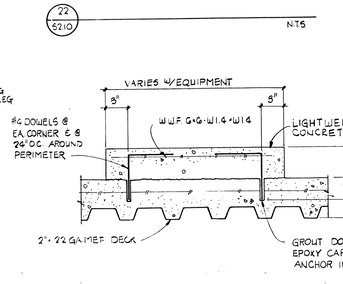
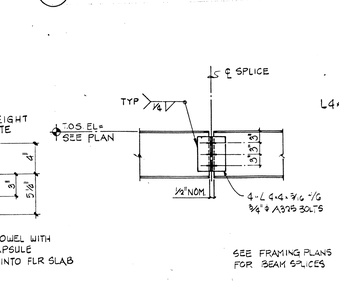


27 S2.10 27A S2.10 3/4"=1'-0"



15 S2.10 TYP. HOUSEKEEPING PAD 1½"=1'-0"



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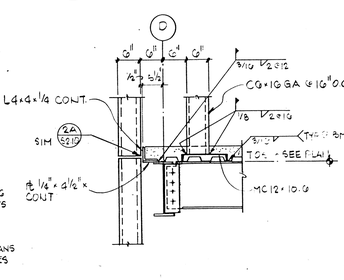
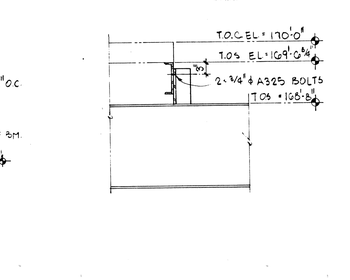


30 S2.10 3/4"=1'-0"



31 S2.10 3/4"=1'-0"

DAVID H. GRIEVES
STATE OF
NO. 6127
NEW MEXICO
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400 Roma N.W.
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Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4/14/86
Checked by: M.A.Z.
Drawing Title: FRAMING DETAILS

Drawing: S2.10
Sheet: 20 of 111

GENERAL STRUCTURAL NOTES

1. CODES AND MANUALS:
   Uniform Building Code, 1982 Edition
   AISC Manual of Steel Construction, 8th Edition
   SDI Design Manual for Floor Decks and Roof Decks, SDI 1981
   AISI Cold Formed Steel Manual, 1983 Edition
   ACI Building Code Requirements for Reinforced Concrete, ACI 318-83

2. DESIGN CRITERIA:
   A. Vertical:
   Live Load
   Roof 20 psf
   Floor 80 psf
   Corridors and Stairs 100 psf
   Additional Superimposed Loads
   Partitions 20 psf

   B. Horizontal:
   (1) WIND* [Method 2] p = Ce Cq qs I
   Combined Height, Exposure & Gust Factor
   (Ce = Average of Exposure B & C)
   0-20 ft. Ce = 0.95
   20-40 ft. Ce = 1.05
   40-60 ft. Ce = 1.25
   60-100 ft. Ce = 1.35
   Pressure Coefficients 0-40 ft. Cq = 1.3
   >40 ft. Cq = 1.4
   Wind Stagnation Pressure (Basic Wind Speed = 75 MPH) qs = 15.0 psf
   Importance Factor I = 1.15

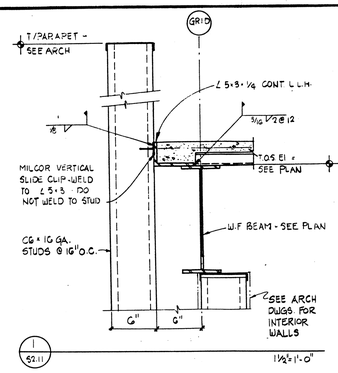
   WIND PRESSURE
   0-20 ft. p = .95x1.3x15x1.15 = 21.3 psf
   20-40 ft. p =1.05x1.3x15x1.15 = 23.5 psf
   40-60 ft. p =1.25x1.4x15x1.15 = 30.2 psf
   60-100 ft. p =1.35x1.4x15x1.15 = 32.6 psf

   (2) SEISMIC* V = Z I K C S W
   Zone 2 Z = 0.375
   Importance Factor I = 1.15
   Horizontal Force Factor K (NS) = 1.0
   K (EW) = 1.33
   Site Structural Resonance Coefficient CxS = 0.14
   SEISMIC FORCE V (NS) = 0.06 x W
   V (EW) = 0.08 x W

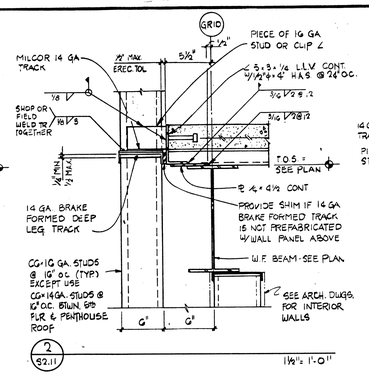
   * Allowable 1/3 stress increase for Wind or Seismic loading.
   C. Pile Capacity (14" diameter) = 130 k @ 40 ft. depth.
   D. Future Building Expansion: None

3. GENERAL:
   A. The Contractor shall verify all dimensions in the field.
   B. Shop drawings shall be furnished and reviewed before any fabrication or erection is started. The Contractor shall review and approve shop drawings prior to submittal to the Architect for review. Poorly executed shop drawings will be rejected and shall be resubmitted.
   C. The Contractor shall be responsible for providing safe and adequate shoring for all parts of the structure during construction.
   D. The Contractor shall coordinate and verify all openings in floors, roof, walls and beams with the individual trades.
   E. Notching or cutting any structural member in the field is prohibited.

4. MATERIALS:
   A. Cast-in-place Concrete:
   (1) All concrete shall conform to the Specifications for Structural Concrete, ACI 301-84.
   (2) All exposed edges of concrete shall have a 3/4" chamfer unless noted otherwise.
   (3) Normal weight Concrete:
   a. f'c = 3000 psi @ 28 days (air entrained) - All exterior and foundation concrete (i.e. sidewalks, slabs, pads, curbs, gutters, pavements, site retaining walls, pile caps, shear walls, etc.)
   (4) Lightweight Concrete:
   a. f'c = 3500 psi @ 28 days - All concrete fill over metal deck.
   B. Reinforcing Steel:
   1) All reinforcing steel shall be fabricated and placed in accordance with the Building Code Requirements for Reinforced Concrete (ACI 318-83) and the Standard Manual (ACI 315-80).
   (2) All reinforcing steel shall conform to ASTM A615 Grade 60; except stirrups, ties and field-bent bars which shall conform to ASTM A615 Grade 40.
   (3) Welded smooth wire fabric shall conform to ASTM A185. Provide in flat sheets only.
   (4) Where lapped splices in reinforcing occur, the minimum lap shall be made as follows unless noted otherwise on drawings:
   a. Vertical reinforcing: 30 bar dia. or 18" minimum
   b. Horizontal reinforcing: 30 bar dia. or 18" minimum
   c. Welded wire fabric: one complete wire spacing
   (5) All horizontal reinforcing in footings, walls and beams shall be continuous around corners or have corner bars of the same size and spacing as the horizontal bars and lap a minimum of 30 bar diameters or 18 inches.
   (6) The Contractor shall be responsible to see that all rebar is accurately located and secured in place so that it remains in the correct position during the placement of the concrete. Any rebar found to be improperly installed shall be removed and replaced at no additional cost to the Owner.
   (7) Concrete cover for reinforcing shall be as follows:
   a. Concrete cast against and permanently exposed to earth 3"
   b. Concrete exposed to earth or weather:
   1. Bars larger than No. 5 2"
   2. Bars No. 5 or smaller 1 1/2"
   c. Columns, girders and beams 1 1/2"
   d. Structural slabs and walls 3/4"
   e. Structural slabs on metal deck 1"
   (8) Form ties shall be either of the threaded or snap-off type so that no metal will be left within 1 inch of the surface of the wall. Following removal of form ties, recesses are to be carefully filled and pointed with mortar.
   (9) Bar supports and spacers for reinforcing shall be provided in accordance with ACI 315-80. Chairs with 22 ga. sand plates or precast blocks shall be provided for all reinforcing of concrete in contact with grade. Deck chairs shall be provided for all welded wire fabric in slabs over metal deck.
   (10) Reinforcing shall not be tack welded or welded in any manner unless specifically detailed on the structural plans.
   C. Structural and Miscellaneous Steel:
   (1) All structural steel shall be detailed and fabricated in accordance with the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings.
   (2) All structural and miscellaneous steel members, shapes and connections shall conform to ASTM A36 unless noted otherwise.
   (3) All cold formed structural tubing shall conform to ASTM A500, Grade B. Fy = 46 ksi.
   (4) The Contractor shall be responsible for checking the Architectural drawings for all miscellaneous steel.
   (5) Bolts shall conform to ASTM A325 tension control bolts unless noted otherwise, with sizes as shown on the drawings. Where clearance within a connection does not permit the use of tension control bolts, standard A325 bolts shall be used and inspected in accordance with the AISC Specification for Structural Joints.
   (6) Anchor bolts embedded in concrete shall be ASTM A307 bolts or A36 threaded bars.
   (7) All welding shall be done in accordance with the latest standards of the AWS and AISC.
   D. Steel Deck:
   (1) All steel deck shall be fabricated and erected in accordance with Steel Deck Institute specifications.
   (2) See plan for steel deck gage, finish and connections.
   E. Lightgage Metal Framing:
   (1) All lightgage metal framing shall conform to AISI "Specification for the Design of Cold-Formed Steel Structural Members", 1980.
   (2) Bridging for walls to be provided with manufacturers standard bridging: (either welded 2 1/2" x 18 ga. stud or clipped cold-rolled channel 1 1/2" x 16 ga.). Provide at 3'-4" o.c. maximum.
   (3) Provide all miscellaneous accessories as per manufacturers recommendations.
   (4) Erect as per manufacturers specifications and recommendations.
   (5) Metal studs shall be Inryco/Milcor or approved equal; sizes are as shown on plans.
   (6) All track shall be deep leg, 16 ga. minimum, and width as required.
   (7) Minimum yield stress: 18,20 ga. Fy = 33,000 psi
   12,14,16 ga. Fy = 50,000 psi



1 S2.11 1½"=1'-0"



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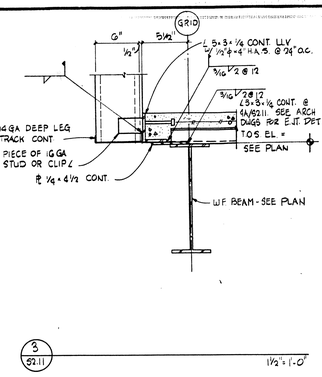

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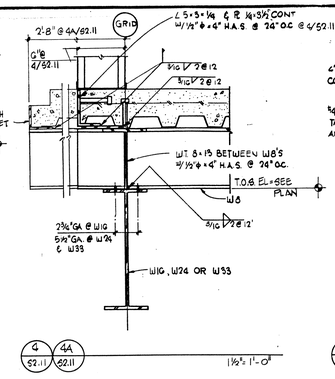
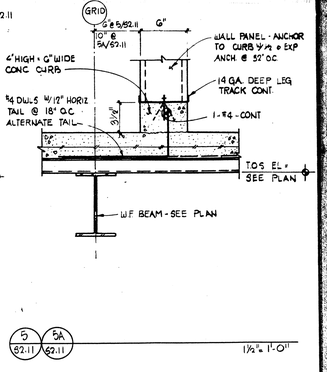
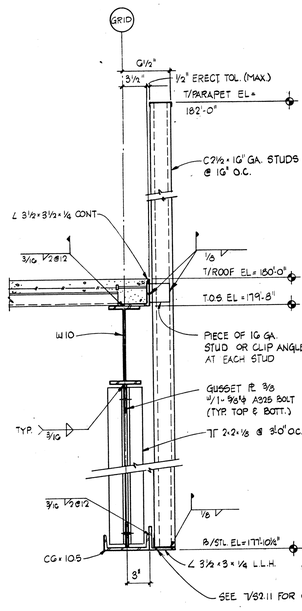


4 4A S2.11 1½"=1'-0"



5 5A S2.11 1½"=1'-0"



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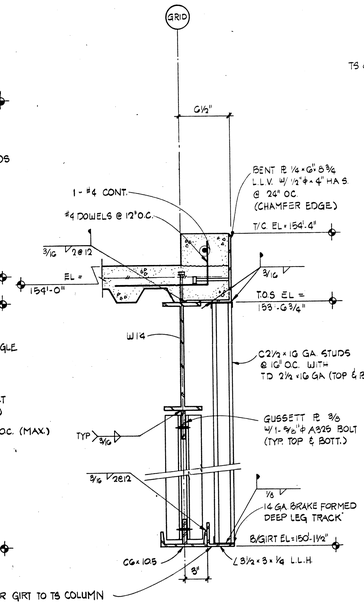

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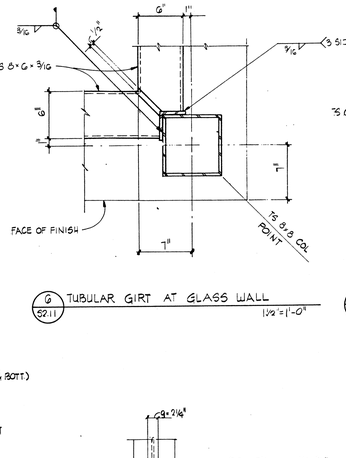
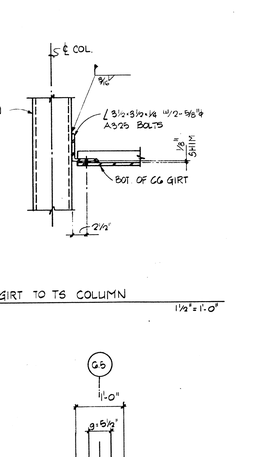
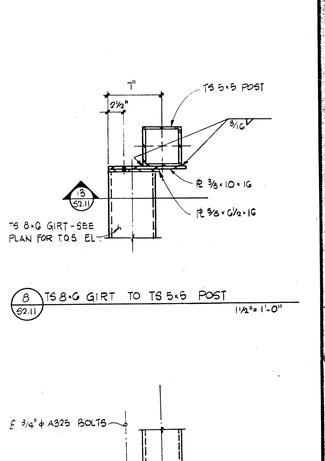


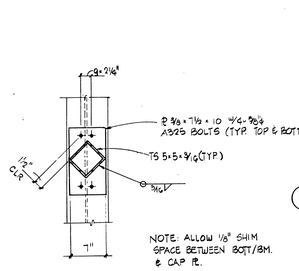
G S2.11 TUBULAR GIRT AT GLASS WALL 1½"=1'-0"



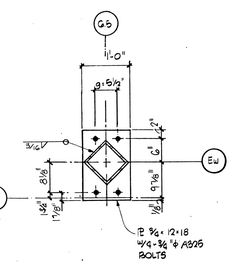
7 S2.11 GIRT TO TS COLUMN 1½"=1'-0"



8 S2.11 TS 8x6 GIRT TO TS 8x5 POST 1½"=1'-0"



11 S2.11 BASE P OR CAP P DETAIL 1½"=1'-0"



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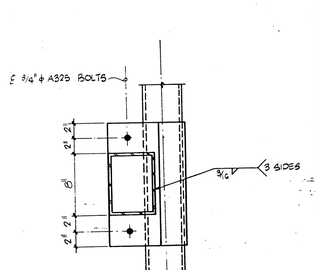
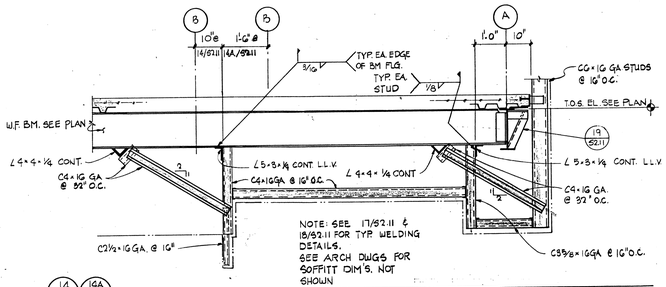
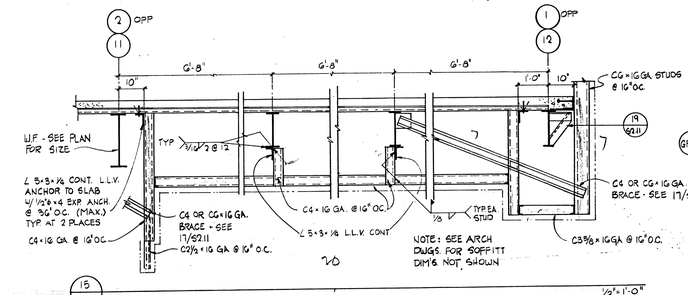


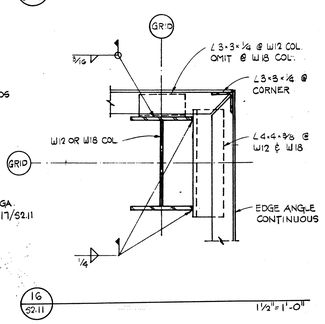
13 S2.11 1½"=1'-0"



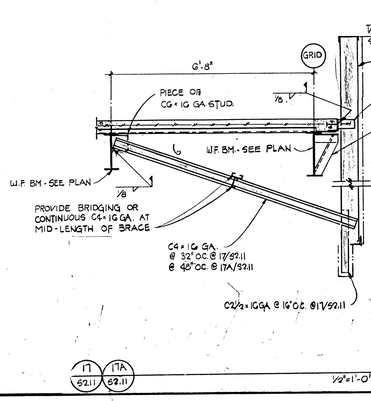
14 16A S2.11 ½"=1'-0"



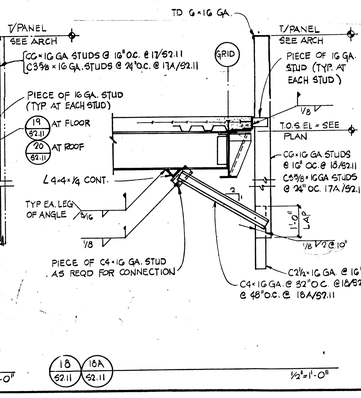
15 S2.11 ½"=1'-0"



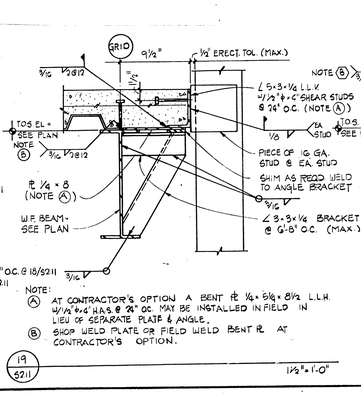
16 S2.11 1½"=1'-0"



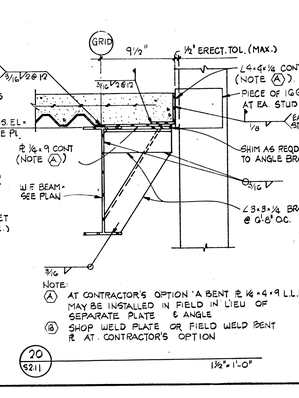
17 17A S2.11 S2.11 ½"=1'-0"



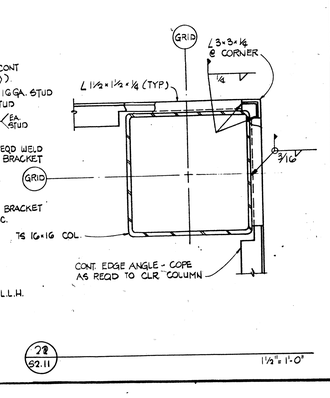
18 18A S2.11 S2.11 ½"=1'-0"



19 S2.11 1½"=1'-0"



20 S2.11 1½"=1'-0"



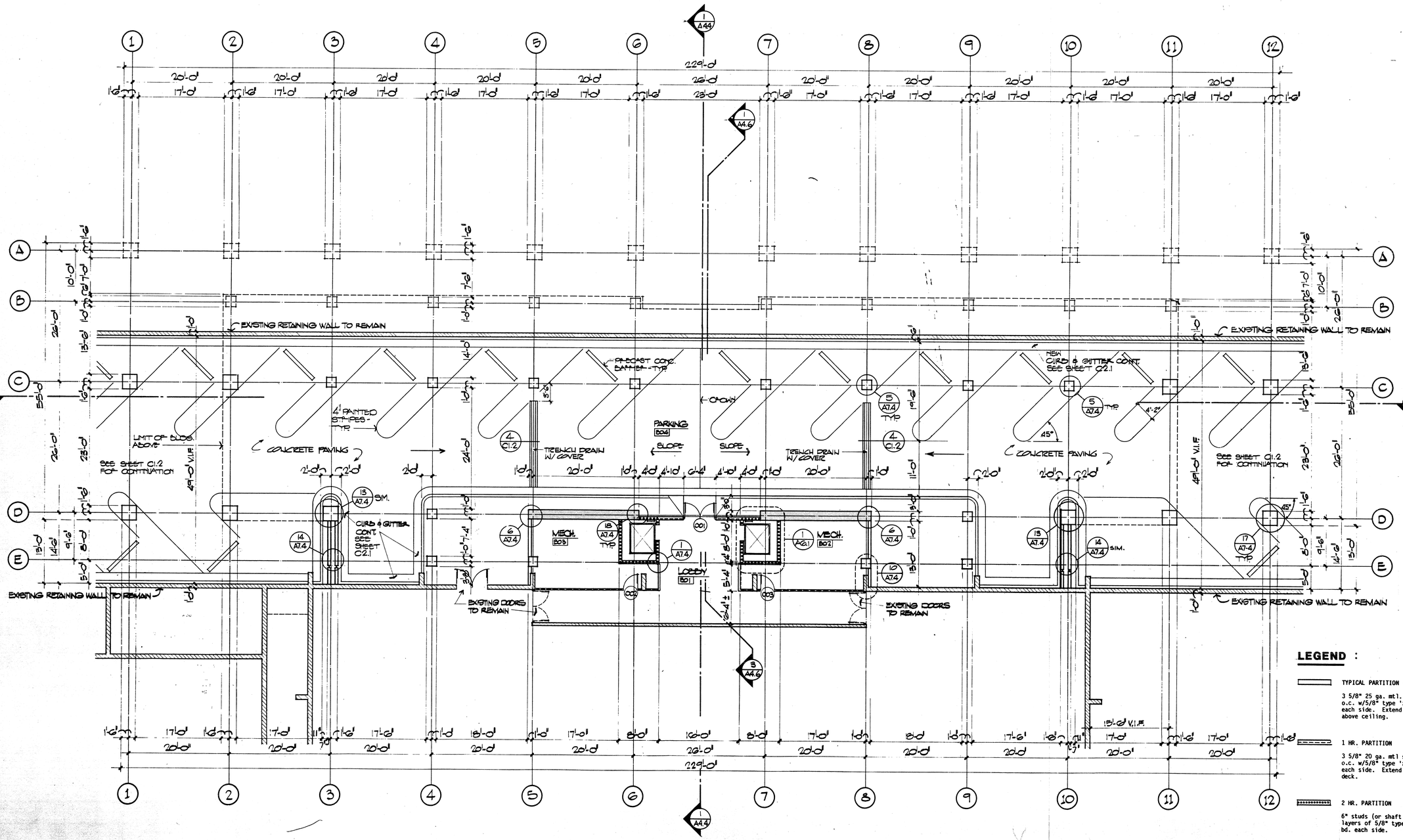
21 S2.11 1½"=1'-0"

DAVID R. GRIEVES
STATE OF NEW MEXICO
NO. 6127
REGISTERED PROFESSIONAL ENGINEER

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4/14/86
Checked by: M.A.Z.
Drawing Title: FRAMING DETAILS AND GENERAL NOTES

Drawing S2.11
Sheet 21 of 111



LEGEND :

- TYPICAL PARTITION
  3 5/8" 25 ga. mtl. studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend min. 12" above ceiling.
- 1 HR. PARTITION
  3 5/8" 20 ga. mtl studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend assembly to deck.
- 2 HR. PARTITION
  6" studs (or shaft wall) w/2 layers of 5/8" type 'x' gyp. bd. each side.
- CONCRETE WALL (basement only)
- 5/8" type 'x' gyp. bd. on 4" A-B plywood on 3 5/8" mtl. studs. Extend assembly to deck.

BASEMENT FLOOR PLAN

1/8"

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 7801
Jerold W. Burton
No. 850
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER

400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
8506
Date
4/14/86
Checked by
JLW
Drawing Title
Basement Floor Plan

Drawing
A2.1
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of
111

STATE OF NEW MEXICO
Ron L. Hutchinson No. 6813
James R. Brown No. 5591
Ken R. Burton No. 8-5
REGISTERED ARCHITECTS

DOOR SCHEDULE — FIRST FLOOR

DOOR #	PAIR	SIZE WIDTH	SIZE HEIGHT	SIZE THICK	DOOR MATERIAL	DOOR TYPE	FRAME MATERIAL	FRAME TYPE	FRAME DEPTH	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	DETAILS SILL	FIRE RTG.(MIN.)	DOOR SIGN ROOM #	HARDWARE SET #	REMARKS
101	●	3°	*	1 3/4"	ALUMN	*	ALUMN	*	7 1/4"	10/A3.2	10/A3.2	10/A3.2	1/A3.2	20		1	*SEE WINDOW TYPE A (SHT A 3.1)
102	●	3°	*		ALUMN	*	ALUMN	*	7 1/4"	10/A3.2	10/A3.2	10/A3.2	1/A3.2	20			*SEE WINDOW TYPE A (SHT A 3.1)
103		3°	7°		HM	A	HM	7	6"	1/A3.3 SIM.	11/A33	11/A3.3	1/A3.2 SIM.			3	
104	●	3°	7'-6"		HM	C	ALUMN	1	6"	2/A3.3	1/A3.3	1/A3.3	—	20		4	
105	●	3°	7'-6"		HM	C	ALUMN	1	6"	2/A3.3	1/A3.3	1/A3.3	—	20		4	
106	●	3 5/8"	7°		WD	D	HM	3	6"	16/A3.2	6/A3.3 SIM.	6/A3.3 SIM.	—	20		5	
107	●	3°	7°		WD	D	HM	2	6"	15/A3.2	19/A3.3	19/A3.3 SIM.	—			7	
108		3°	7°		WD	D	HM	7	7 1/2"	19/A3.2	18/A3.2 SIM.	6/A3.2 SIM.	—	90	STAIR	9	
109	●	3°	7°		WD	D	HM	2	6"	15/A3.2	15/A3.2	15/A3.2	—	20		7	
110		3°	7°		WD	D	HM	7		15/A3.2	15/A3.2	15/A3.2	—	20		13	
111						D		7		15/A3.2	15/A3.2	15/A3.2	—	20		13	
112						D							—			12	
113						D							—			11	
114						D							—	20	MEN	10	w/H.C. Symbol
115						D							—	20	WOMEN	10	w/H.C. Symbol
116						D							—			11	
117						D			↓	↓	↓	↓	—	20		13	
118						D		↓	6"	15/A3.2	15/A3.2	15/A3.2	—	20		13	
119					WD			7	7 1/2"	19/A3.2	16/A3.2	20/A3.2	—	90	STAIR	9	
120	●				WD			2	6"	15/A3.2	19/A3.3	19/A3.3 SIM.	—			7	
121	●							2	6"	15/A3.2	15/A3.2	15/A3.2	—			7	
122								7	6"	15/A3.2	15/A3.2	15/A3.2	—			14	
123													—			14	
124													—			14	
125													—			14	
126													—			14	
127													—			14	
128													—			14	
129													—			14	
130													—			14	
131													—			14	
132													—			14	
133													—			14	
134													—	20		13	
135		↓	↓	↓	↓	↓		↓	↓	↓	↓	↓	—	20		13	
136		3°	7°	1 3/4"	WD	D		7	6"	15/A3.2	15/A3.2	15/A3.2	—	20		13	
137	●	3°	7°	1 3/4"	WD	B	↙	2	7 1/2"	19/A3.2 SIM.	5/A3.3 SIM.	6/A3.3	—	20		7	
001	●	3°	7°	1 3/4"	HM	A	HM	1	6	3/A3.2	3/A3.2	3/A3.2	—			1	
002		3°	7°	1 3/4"	HM	A	HM	1	6	15/A3.2	15/A3.2	15/A3.2	—	20		8	
003		3°	7°	1 3/4"	HM	A	HM	1	6	″	″	″	—	20		8	

ROOM FINISH SCHEDULE — FIRST FLOOR

	#	ROOM	FLOOR: CERAMIC TILE 1	CARPET #1 2	VCT 3	EXPOSED CONC. 4	RUBBER TREAD/LANDING 5	RAISED RUBBER TILE 6	CARPET #2 7	BASE: CERAMIC TILE 1	4" TOELESS VINYL 2	4" COVE VINYL 3	NO BASE 4	WALL: CERAMIC TILE 1	GYP. BD. (PAINTED) 2	CEILING: SUSP. GYP. BD. 1	2x4 LAY-IN 2	EXPOSED STRUCTURE 3	CEILING HEIGHT	REMARKS
COMMON	100	LOBBY	1							1				1		1				
	100A	LOBBY	1							1				1		1				
	101	ELEV. LOBBY	1							1				1		1				
	102	WOMEN	1							1				1		1				
	103	MEN	1							1				1		1				
	104	CORRIDOR							7		2				2		2			
	104A	CORRIDOR							7		2				2		2			
	105	CORRIDOR							7		2				2		2			
	105A	CORRIDOR							7		2				2		2			
	106	TELEPHONE CLS.		3								3			2	1				
	107	ELECTRICAL CLOSET		3								3			2	1				
	108	CORRIDOR		3								3			2		2			
	108A	STORAGE		3								3			2	1				
	109	CORRIDOR		3								3			2		2			
	109A	STORAGE		3								3			2	1				
	110	JANITOR		3								3			2	1				
		STAIR #1					5													by manufacturer
		STAIR #2					5													
		ELEVATOR #1						6												
		ELEVATOR #2						6												
RECORDS	120	WAITING	1							1							2			
	121	CENTRAL RECORDS		2							2						2			
	122	OFFICE		2							2						2			
	123	OFFICE		2							2						2			
	124	OFFICE		2							2						2			
	125	OFFICE		2							2						2			
	126	OFFICERS SERVICE DESK			3							3					2			
RECRUITING	140	RECEPTION		2							2						2			
	141	CORRIDOR		2							2						2			
	142	OFFICE		2							2						2			
	143	OPEN OFFICE		2							2						2			
	144	OFFICE		2							2						2			
	145	CORRIDOR		2							2						2			
	146	OFFICE		2							2						2			
	147	INTERVIEW		2							2						2			
	148	OFFICE		2							2						2			
	149	INTERVIEW		2							2						2			
	150	CONFERENCE		2							2						2			
PIO	160	CORRIDOR		2							2						2			
	161	OFFICE		2							2						2			
	162	OFFICE		2							2						2			
BASEMENT	170	NEW CORRIDOR			3							3			2		2			
	B01	LOBBY			3							3			2		2			
	B02	MECHANICAL				4							4		2			3		
	B03	MECHANICAL				4							4		2			3		
	B04	PARKING																		

SEE REFLECTED CEILING PLAN

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
8506
Date
4 | 14 | 80
Checked by
Drawing Title
First Floor Finish Schedule

Drawing
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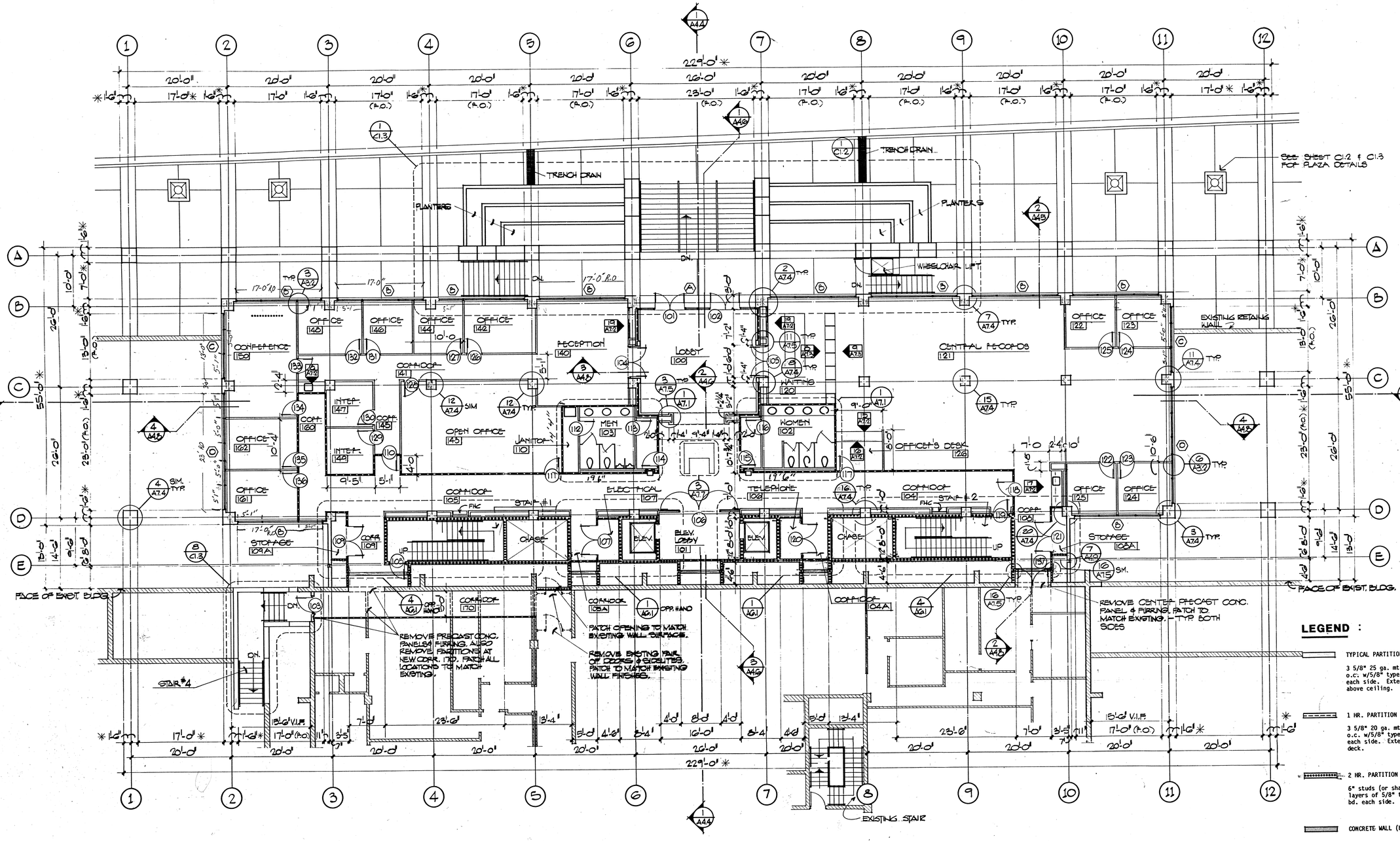

FIRST FLOOR PLAN

1/8"

LEGEND :

- TYPICAL PARTITION — 3 5/8" 25 ga. mtl. studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend min. 12" above ceiling.
- 1 HR. PARTITION — 3 5/8" 20 ga. mtl studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend assembly to deck.
- 2 HR. PARTITION — 6" studs (or shaft wall) w/2 layers of 5/8" type 'x' gyp. bd. each side.
- CONCRETE WALL (basement only)
- 5/8" type 'x' gyp. bd. on ¼" A-B plywood on 3 5/8" mtl. studs. Extend assembly to deck.
- ✳ DIMENSIONS TO FINISHED FACE - ALL OTHERS TO FACE OF STUD OR END

STATE OF NEW MEXICO — REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102

Project Number: 8506
Date: 4/14/86
Checked by: JLJ
Drawing Title: First Floor Plan

Drawing: A2.3
Sheet: 23

Antoinette Pino & Associates, Architects, Planning, Interiors, 1919 Central Avenue SE • Albuquerque, New Mexico 87106 • (505) 843-9696

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 7857
James R. Hackett
No. 7859
Jack R. Burton
No. 855
REGISTERED ARCHITECTS

DOOR SCHEDULE — SECOND FLOOR

DOOR			SIZE					FRAME			DETAILS				FIRE RTG.(MIN.)	DOOR SIGN		HARDWARE SET#	REMARKS
		PAIR	WIDTH	HEIGHT	THICK.	MATERIAL	TYPE	MATERIAL	TYPE	DEPTH	HEAD	JAMB	JAMB	SILL		ROOM #			
201	●		3-11 5/8"	7'-0"	1 3/4"	WD	D	HM	3	6"	15/A3.2	4/A3.3	4/A3.3	—	20MIN.			5	
202	●		3'-0"			WD			2	6"	15/A3.2	19/A3.3	19/A3.3	—	20MIN.			7	
203						WD			7	7 1/2"	19/A3.2	20/A3.2	16/A3.2	—	90MIN.		STAIR	9	
204	●					WD			2	6"	15/A3.2	15/A3.2	15/A3.2	—	20MIN.			7	
205									7	6"	15/A3.2	15/A3.2	15/A3.2	—	20MIN.			13	
206									7		15/A3.2	15/A3.2	15/A3.2	—	20MIN.			13	
207									6			18/A3.2		—	20MIN			13	
208									7			15/A3.2		—				12	
209									7					—				11	
210									7					—	20MIN.		MEN	10	
211									7					—	20MIN.		WOMEN	10	
212									7	↓	↓	↓	15/A3.2	—				11	
213									6	6"	15/A3.2	15/A3.2	18/A3.2	—	20MIN.			13	
214									7	7 1/2"	19/A3.2	16/A3.2	20/A3.2	—	90MIN.		STAIR	9	
215	●								2	6"	15/A3.2	19/A3.3	19/A3.3	—	20MIN.			7	
216	●								2	6"	15/A3.2	15/A3.2	15/A3.2	—	20MIN.			7	
217									7	6"	15/A3.2	15/A3.2	15/A3.2	—				14	
218														—				14	
219														—				14	
220														—				14	
221														—				14	
222														—				14	
223														—				14	
224														—				14	
225														—				15	
226														—				14	
227														—				14	
228														—				14	
229														—				14	
230														—				14	
231														—				14	
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236														—				14	
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238														—				14	
239														—				14	
240														—				14	
241														—				14	
242														—				14	
243														—				14	
244														—				14	
245			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	—				14	
246			3'-0"	7'-0"	1 3/4"	WD	D	HM	7	6"	15/A3.2	15/A3.2	15/A3.2	—				14	
247	●		3'-0"	7'-0"	1 3 4"	WD	D	HM	2	7 1/2"	9/A3.2	12/A7.5	12/A7.5	—	20MIN.			4	
248	●		3'-0"	7'-0"	1 3 4"	WD	D	HM	2	7 1/2"	9/A3.2	12/A7.5	12/A7.5	—	20MIN.			4	
249			3'-0"	7'-0"	1 3 4"	WD	D	HM	7	6"	15/A3.2	15/A3.2	15/A3.2	—	20MIN.			13	

ROOM FINISH SCHEDULE — SECOND FLOOR

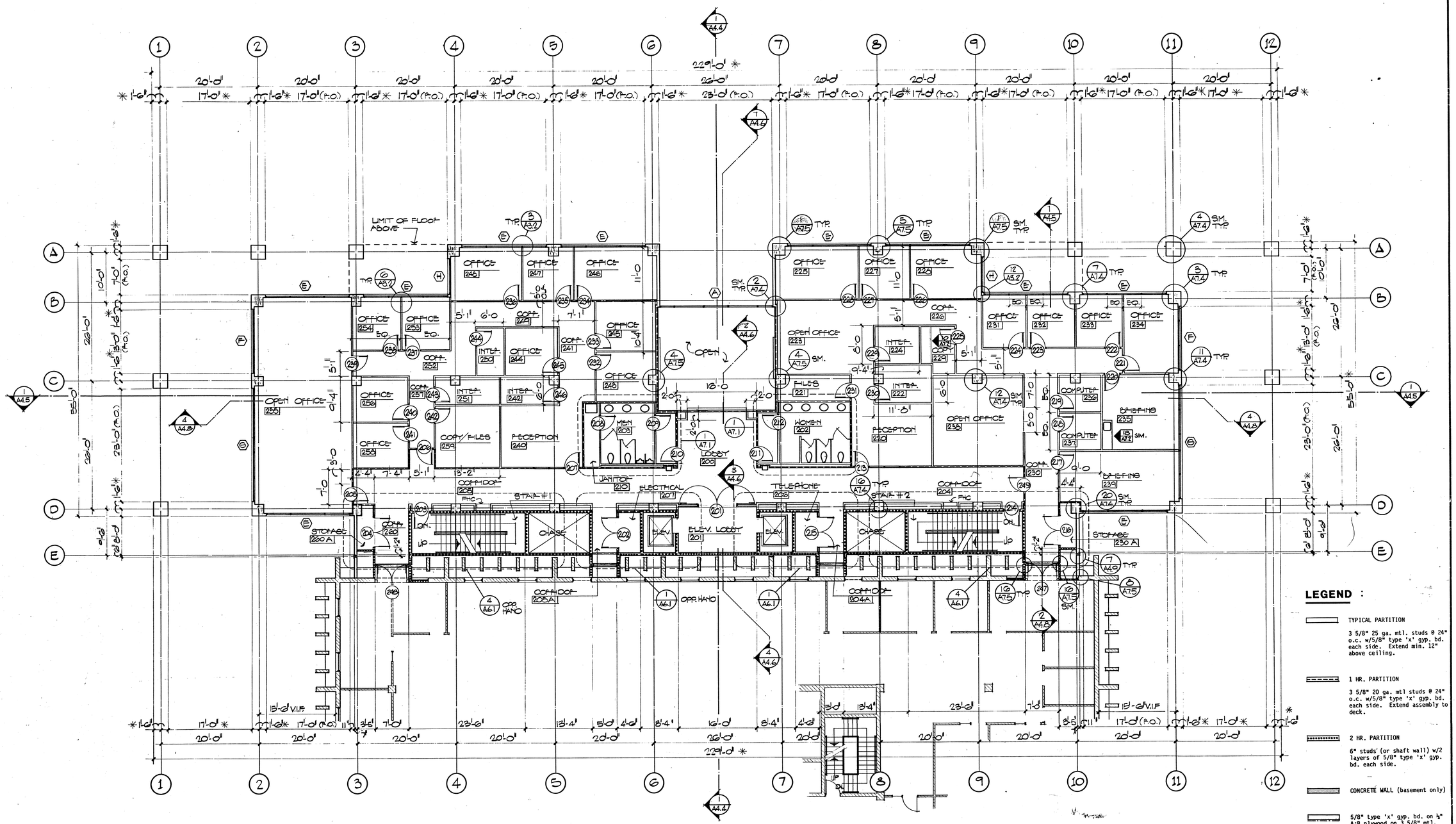
	#	ROOM	FLOOR						BASE				WALL		CEILING				REMARKS
			CERAMIC TILE	CARPET #1	VCT	RUBBER TREADS/LANDING	RAISED RUBBER	CARPET #2	CERAMIC TILE	4" TOELESS VINYL	4" COVED VINYL	4" RUBBER COVED	GYP. BD. PAINTED	GYP. BD. PAINT ENAMEL	SUSPENDED GYP. BD.	24 ACOUST. LAY IN	CEILING HEIGHT		
			1	2	3	4	5	6	1	2	3	4	1	2	1	2			
COMMON	200	LOBBY						6		2			1			2			
	201	ELEV. LOBBY	1						1				1		1				
	202	WOMEN	1						1					2	1				
	203	MEN	1						1					2	1				
	204	CORRIDOR						6		2			1			2			
	204A	CORRIDOR						6		2			1			2			
	205	CORRIDOR						6		2			1			2			
	205A	CORRIDOR						6		2			1			2			
	206	TELEPHONE CLOSET		3							3		1		1				
	207	ELECTRICAL CLOSET		3							3		1		1				
		STAIR #1				4						4	1						
		STAIR #2				4						4	1						
		ELEVATOR #1					5												
		ELEVATOR #2					5												
	210	JANITOR		3						3				2	1				by manufacturer
APD INVESTIGATIONS	220	RECEPTION		2						2			1			2			
	221	FILES		2						2			1			2			
	222	INTERVIEW		2						2			1			2			
	223	OPEN OFFICE		2						2			1			2			
	224	INTERVIEW		2						2			1			2			
	225	OFFICE		2						2			1			2			
	226	CORRIDOR		2						2			1			2			
	227	OFFICE		2						2			1			2			
	228	OFFICE		2						2			1			2			
	229	COPY			3						3		1			2			
	230	CORRIDOR		2						2			1			2			
	230A	STORAGE			3						3		1		1				
	231	OFFICE		2						2			1			2			
	232	OFFICE		2						2			1			2			
	233	OFFICE		2						2			1			2			
	234	OFFICE		2						2			1			2			
	235	BRIEFING			3						3		1			2			
	236	COMPUTER		2						2			1			2			
	237	COMPUTER		2						2			1			2			
	238	OPEN OFFICE		2						2			1			2			
	239	BRIEFING			3						3		1			2			
SO INVESTIGATIONS	240	RECEPTION		2						2			1			2			
	241	CORRIDOR		2						2			1			2			
	242	INTERVIEW		2						2			1			2			
	243	OFFICE		2						2			1			2			
	244	OFFICE		2						2			1			2			
	245	OFFICE		2						2			1			2			
	246	OFFICE		2						2			1			2			
	247	OFFICE		2						2			1			2			
	248	OFFICE		2						2			1			2			
	249	CORRIDOR		2						2			1			2			
	250	INTERVIEW		2						2			1			2			
	251	INTERVIEW		2						2			1			2			
	252	CORRIDOR		2						2			1			2			
	253	OFFICE		2						2			1			2			
	254	OFFICE		2						2			1			2			
	255	OPEN OFFICE		2						2			1			2			
	256	OFFICE		2						2			1			2			
	257	CORRIDOR		2						2			1			2			
	258	OFFICE		2						2			1			2			
	259	COPY			3						3		1			2			
	260	CORRIDOR		2						2			1			2			
	260A	STORAGE			3						3		1		1				

SEE REFLECTED CEILING PLAN

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4-14-86
Checked by:
Drawing Title: Second Finish Floor Schedule

Drawing A2.4
Sheet 25 of 111



LEGEND :

TYPICAL PARTITION

3 5/8" 25 ga. mtl. studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend min. 12" above ceiling.

1 HR. PARTITION

3 5/8" 20 ga. mtl studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend assembly to deck.

2 HR. PARTITION

6" studs (or shaft wall) w/2 layers of 5/8" type 'x' gyp. bd. each side.

CONCRETE WALL (basement only)

5/8" type 'x' gyp. bd. on ½" A-B plywood on 3 5/8" mtl. studs. Extend assembly to deck.

DIMENSIONS TO FINISHED FACE - ALL OTHERS TO FACE OF STUD OR C.M.U.

SECOND FLOOR PLAN

1/8"

13

STATE OF NEW MEXICO
Joe L. Agnew
No. 1167
Registered Architect
Mark Burton
No. 855
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER

400 Roma N.W.
Albuquerque, New Mexico 87102

Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
8506
Date
4/14/86
Checked by
JLJ
Drawing Title
Second Floor Plan

Drawing
A2.5
Sheet
29

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 4536
James T. Brown
No. 4539
Ron R. Burton
No. 815
REGISTERED ARCHITECTS

DOOR SCHEDULE — THIRD FLOOR

	DOOR						FRAME							FIRE RTG. (MIN)	DOOR SIGN		HARDWARE SET#	REMARKS
		SIZE								DETAILS								
	PAIR	WIDTH	HEIGHT	THICK	MATERIAL	TYPE	MATERIAL	TYPE	DEPTH	HEAD	JAMB	JAMB	SILL		ROOM #			
301	●	3'11 5/8"	7'	1 3/4"	WD	D	HM	3	6"	18 A3.2	4 A3.3	4 A3.3	S1.4	20			5	
302		3'	7'	1 3/4"	WD	D	HM	1	6"	15 A3.2	20 A3.2	20 A3.3		20			8	
303		3'	7'	1 3/4"	WD	D	HM	7	7 1/2"	19 A3.2	7 A7.5	16 A3.2		90		STAIR	9	
304		3'	7'		WD	D	HM	5	6"	15 A3.2	18 A3.2	15 A3.2		20			13	
305		3'	7'			D		2	6"	15 A3.2	15 A3.2	15 A3.2		20			6	
306	●	3'	7'			D		7						20			13	
307		3'	7'			D											12	
308		3'	7'			D											11	
309						D								20		MEN	10	w/H.C. Symbol
310						D								20			16	
311						D								20			16	
312						D											11	
313						D								20		WOMEN	10	w/H.C. Symbol
314						D		6	6"	15 A3.2	15 A3.2	18 A3.2		20			13	
315						D		5	6"	15 A3.2	15 A3.2	16 A3.2		20			13	
316		3'	7'	1 3/4"	WD	D		1	7 1/2"	19 A3.2	16 A3.2	7 A7.5		90		STAIR	9	
317		3'	7'	1 3/4"	WD	D			6"	15 A3.2	20 A3.2	20 A3.3		20			8	
318		3'	7'	1 3/4"	WD	D			6"	15 A3.2	15 A3.2	15 A3.2					14	
319		3'	7'	1 3/4"	WD	D											14	
320		3'	7'	1 3/4"	WD	D											8	
321		2'	7'	1 3/4"	WD	D											14	
322		3'	7'	1 3/4"	WD	D											14	
323						D											14	
324						D											14	
325						D											14	
326						D											14	
327						D											14	
328						D											14	
329						D											14	
330						D											14	
331						D											14	
332						D											15	
333						D											15	
334						D											14	
335						D											8	
336						D											14	
337						D											14	
338						D											14	
339						D											14	
340						D											14	
341						D		7	6"	15 A3.2	15 A3.2	15 A3.2					14	

ROOM FINISH SCHEDULE — THIRD FLOOR

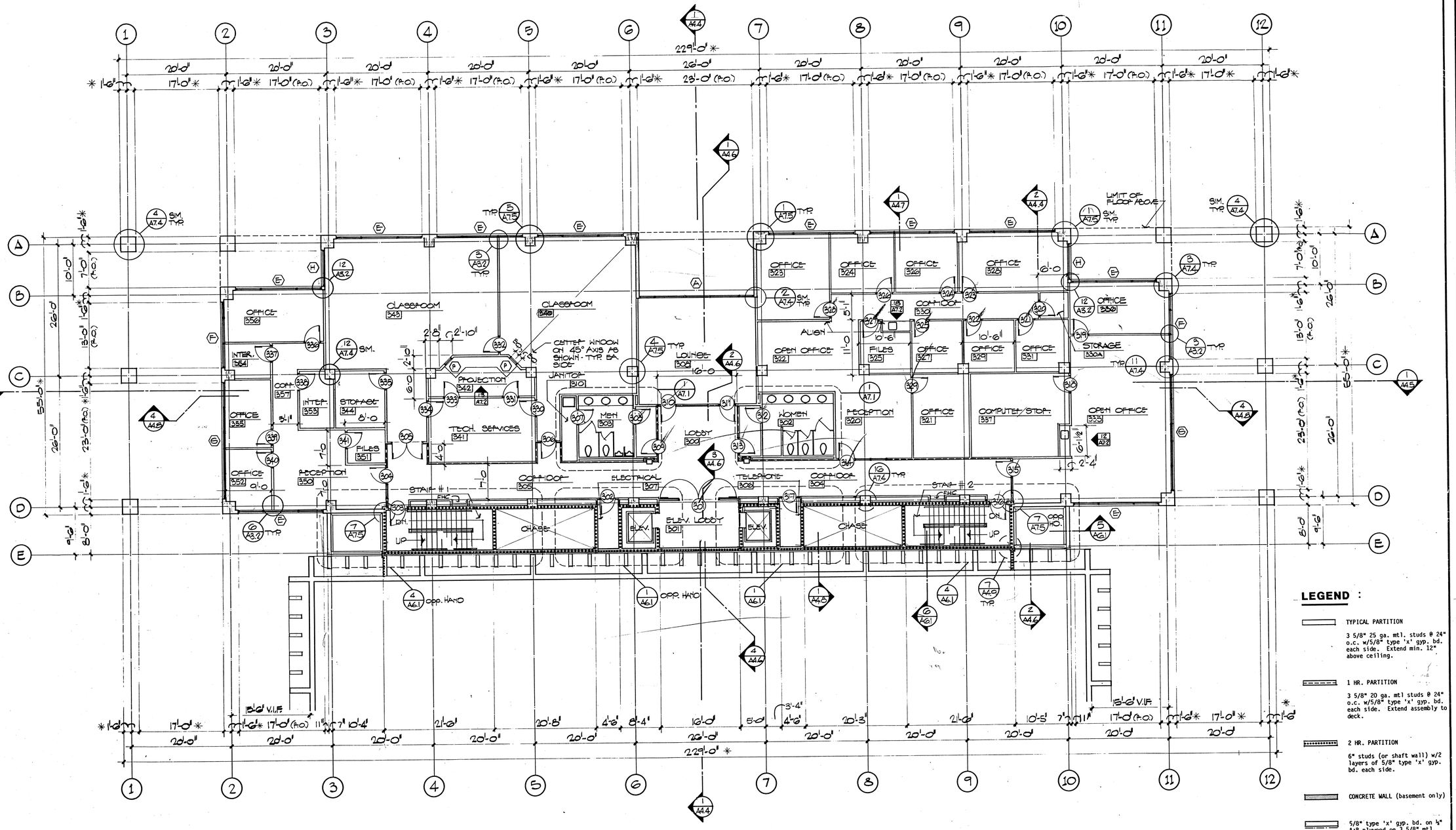
	#	ROOM	FLOOR						BASE			WALL		CEILING			REMARKS
			CERAMIC TILE	CARPET #1	VCT	RUB. TREADS/LANDING	RAISED RUBBER	CARPET #2	CERAMIC TILE	4" TOELESS BASE	4" COVED BASE	GYP. BD. PAINTED	GYP. PAINT ENAMEL	SUSPENDED GYP. 2x4 LAY IN		CEILING HEIGHT	
			1	2	3	4	5	6	1	2	3	1	2	1	2		
COMMON	300	LOBBY						6		2		1			2		
	301	ELEV. LOBBY	1						1			1		1			
	302	WOMEN	1						1					1			
	303	MEN	1						1				2	1			
	304	CORRIDOR					6			2		1			2		
	305	CORRIDOR					6			2		1			2		
	306	TELEPHONE			3						3	1		1			
	307	ELECTRICAL CLST.			3						3	1		1			
	308	LOUNGE			3						3		2		2		
		STAIR #1				4							2				
		STAIR #2				4							2				
		ELEVATOR #1					5										
		ELEVATOR #2					5										
S.O. PERSONNEL SERVICES	320	RECEPTION		2						2		1			2		
	321	OFFICE		2								1			2		
	322	OPEN OFFICE		2								1			2		
	323	OFFICE		2								1			2		
	324	OFFICE		2								1			2		
	325	FILES			3						3	1			2		
	326	OFFICE		2								1			2		
	327	OFFICE		2								1			2		
	328	OFFICE		2								1			2		
	329	OFFICE		2								1			2		
	330	CORRIDOR		2								1			2		
	330A	STORAGE			3						3	1			2		
	331	OFFICE										1			2		
APD	335	OPEN OFFICE		2						2		1			2		
	336	OFFICE		2						2		1			2		
	337	COMP./STORAGE			3						3	1			2		
S.O. PERSONNEL SERVICES	340	CLASSROOM			3						3	1			2		
	341	TECH. SERVICES			3						3	1			2		
	342	PROJECTION			3						3	1			2		
	343	CLASSROOM			3						3	1			2		
	344	STORAGE			3						3	1			2		
S.O. INTERNAL AFFAIRS	350	RECEPTION		2						2		1			2		
	351	FILES			3						3	1			2		
	352	OFFICE		2						2		1			2		
	353	INTERVIEW		2						2		1			2		
	354	INTERVIEW		2						2		1			2		
	355	OFFICE		2						2		1			2		
	356	OFFICE		2						2		1			2		
	357	CORRIDOR		2						2		1			2		

SEE REFLECTED CEILING PLAN — by manufacturer

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4·14·80
Checked by:
Drawing Title: Third Floor Finish Schedule

Drawing A2.6
Sheet 21 of 111



LEGEND :

- TYPICAL PARTITION
  3 5/8" 25 ga. mtl. studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend min. 12" above ceiling.
- 1 HR. PARTITION
  3 5/8" 20 ga. mtl studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend assembly to deck.
- 2 HR. PARTITION
  6" studs (or shaft wall) w/2 layers of 5/8" type 'x' gyp. bd. each side.
- CONCRETE WALL (basement only)
- 5/8" type 'x' gyp. bd. on ¼" A-B plywood on 3 5/8" mtl. studs. Extend assembly to deck.
- * DIMENSIONS TO FINISHED FACE - ALL OTHERS TO FACE OF STUD OR CMU

THIRD FLOOR PLAN

1/8"

13

STATE OF NEW MEXICO
Tom L. Hutchinson
No. 1867
James D. Burton
No. 2
Mike E. Barnes
No. 850
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102

Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5830

Project Number
8506
Date
4/14/86
Checked by
JLJ
Drawing Title
THIRD FLOOR PLAN

Drawing
A2.7
Sheet
23

STATE OF NEW MEXICO
Ron L. Hutchinson
Jamie R. Brown
Jay Burton
No. 1099
REGISTERED ARCHITECTS

DOOR SCHEDULE — FOURTH FLOOR

DOOR							FRAME			DETAILS				FIRE RTG.	DOOR SIGN		HARDWARE SET#	REMARKS
		SIZE																
	PAIR	WIDTH	HEIGHT	THICK	MATERIAL	TYPE	MATERIAL	TYPE	DEPTH	HEAD	JAMB	JAMB	JAMB		ROOM #			
401	●	3'-1 5/8"	7'-0"	1 3/4"	WD	3'-0"	HM	3	6"	18A9.2	2A8.3 3 4A8.3	5A8.3	—	20			5	
402		3'-0"	7'-0"	1 3/4"	WD	3'-0"	HM	3	6"	5A9.2	20A9.2	20A9.3	—	20			8	
403								7	7 1/2"	10A9.2	7A7.5	10A9.2	—	90		STAIR	9	
404								7	6"	5A9.2	5A9.2	5A9.2	—	20			13	
405								5	6"	5A9.2	8A9.2	5A9.2	—	20			13	
406								5	6"	15A9.2	8A9.2	5A9.2	—	20			13	
407								7		15A9.2	5A9.2	5A9.2	—	20			12	
408								7			5A9.2		—				11	
409								7			15A9.2		—	20		MEN	10	w/H.C. Symbol
410								5			18A9.2		—	20			13	
411								7			5A9.2		—	20		WOMEN	10	w/H.C. Symbol
412								7			5A9.2	5A9.2	—				11	
413								6			5A9.2	8A9.2	—	20			13	
414								5	6"	15A9.2	5A9.2	8A9.2	—	20			13	
415								7	7 1/2"	19A9.2	16A9.2	7A7.5	—	90		STAIR	9	
416								7	6"	15A9.2	20A9.3	20A9.3	—	20			8	
417									6"	15A9.2	5A9.2	5A9.2	—	20			13	
418													—	20			13	
419													—				15	
420													—	20			13	
421													—	20			13	
422													—	20			13	
423													—	20			15	
424													—	20			13	
425													—	20			13	
426													—	20			13	
427													—	20			14	
428													—	20			13	
429													—	20			13	
430													—				14	
431													—				14	
432													—				14	
433													—	20			17	
434													—				14	
435													—	90			17	
436													—				14	
437													—				14	
438													—				14	
439													—				14	
440													—				14	
441													—				15	
442													—				15	
443													—				14	
444		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	—				14	
445		3'-0"	7'-0"	1 3/4"	WD	0'-0"	HM	7	6"	5A9.2	5A9.2	5A9.2	—				14	

ROOM FINISH SCHEDULE — FOURTH FLOOR

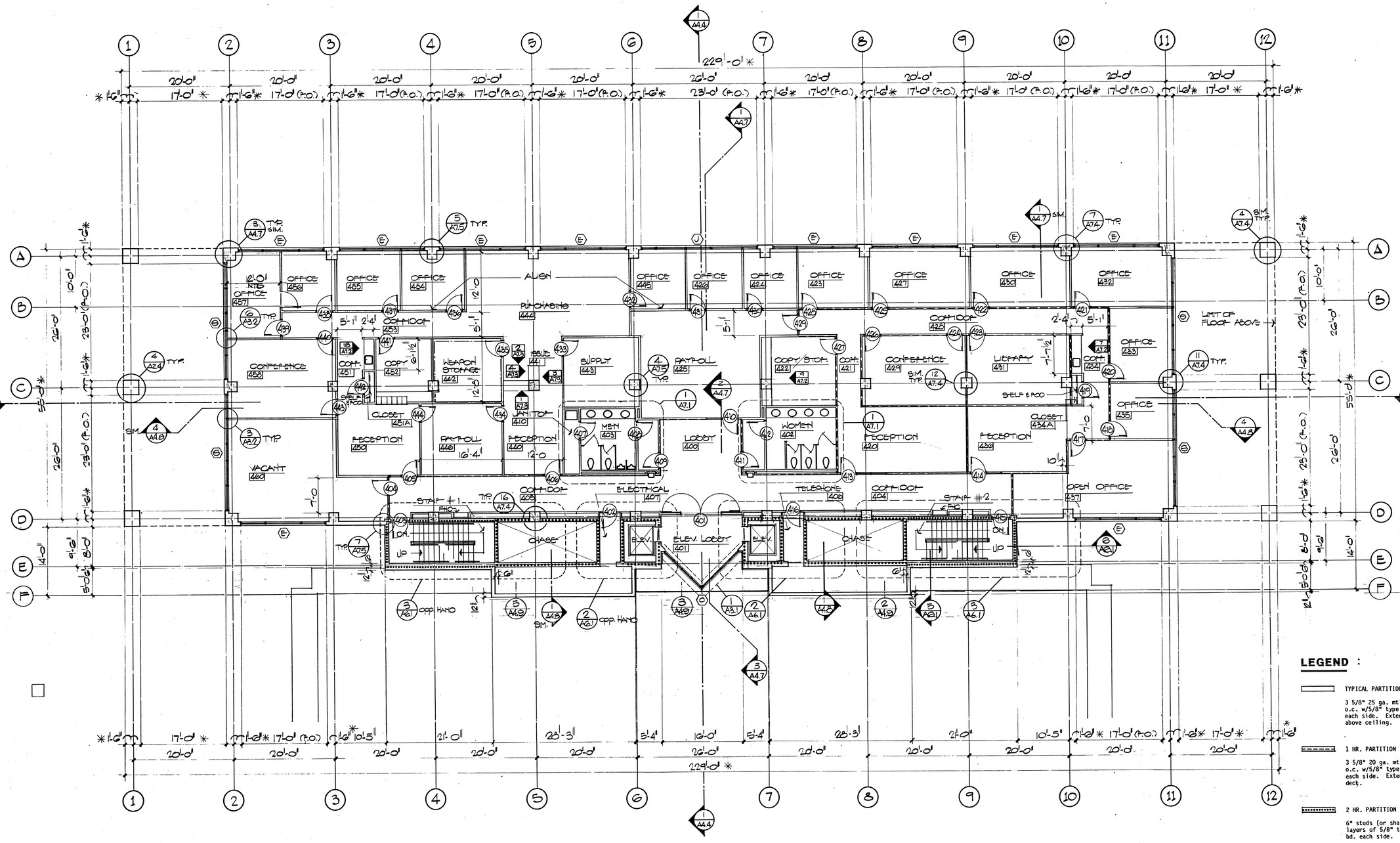
	#	ROOM	FLOOR							BASE				WALL		CEILING		REMARKS
			CERAMIC TILE	CARPET #1	VCT	EXPOSED CONC.	RUB. TREAD/LANDING	RAISED RADIAL RUB.	CARPET #2	CERAMIC TILE (4")	4" VINYL TOELESS	4" VINYL COVE	NO BASE	5/8" GYP. BD. PAINT			CEILING HEIGHT	
			1	2	3	4	5	6	7	1	2	3	4	1	2	1	2	
COMMON	400	LOBBY							7		2			1			2	
	401	ELEV. LOBBY	1								1			1		1		
	402	WOMEN	1								1				2	1		
	403	MEN	1								1				2	1		
	404	CORRIDOR							7		2			1			2	
	405	CORRIDOR							7		2			1			2	
	406	TELEPHONE			3							3			2	1		
	407	ELECTRICAL			3							3			2	1		
	410	JANITOR			3							3			2	1		
		STAIR #1					5						4	1				
		STAIR #2					5						4	1				
		ELEV. #1						6										by manufacturer
		ELEV. #2						6										
APD SERVICES BUREAU	420	RECEPTION		2							2			1			2	
	421	CORRIDOR		2							2			1			2	
	422	COPY			3							3		1			2	
	423	OFFICE		2							2			1			2	
	424	OFFICE		2							2			1			2	
	425	PAYROLL		2							2			1			2	
	426	OFFICE		2							2			1			2	
	427	OFFICE		2							2			1			2	
	428	CORRIDOR		2							2			1			2	
	429	CONFERENCE		2							2			1			2	
	430	OFFICE		2							2			1			2	
	431	LIBRARY		2							2			1			2	
	432	OFFICE		2							2			1			2	
	433	OFFICE		2							2			1			2	
	434	CORRIDOR		2							2			1			2	
	434A	CLOSET		2							2			1		1		
	435	OFFICE		2							2			1			2	
	436	RECEPTION		2							2			1			2	
	437	OPEN OFFICE		2							2			1			2	
SO. PURCHASING	440	RECEPTION		2							2			1			2	
	441	ISSUE		2							2			1			2	
	442	WEAPON STORAGE			3							3		1			2	
	443	SUPPLY			3							3		1			2	
	444	PURCHASING		2							2			1			2	
	445	OFFICE		2							2			1			2	
	446	PAYROLL		2							2			1			2	
SO. ADMINISTRATION	450	RECEPTION		2							2			1			2	
	451	CORRIDOR		2							2			1			2	
	451A	CLOSET		2							2			1			2	
	452	COPY			3							3		1			2	
	453	CORRIDOR		2							2			1			2	
	454	OFFICE		2							2			1			2	
	455	OFFICE		2							2			1			2	
	456	OFFICE		2							2			1			2	
	457	OFFICE		2							2			1			2	
	458	CONFERENCE		2							2			1			2	
	460	VACANT		2							2						2	

SEE REFLECTED CEILING PLAN

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4/14/80
Checked by:
Drawing Title: Fourth Floor Finish Schedule

Drawing A2.8
Sheet 29 of 111



LEGEND :

TYPICAL PARTITION

3 5/8" 25 ga. mtl. studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend min. 12" above ceiling.

1 HR. PARTITION

3 5/8" 20 ga. mtl studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend assembly to deck.

2 HR. PARTITION

6" studs (or shaft wall) w/2 layers of 5/8" type 'x' gyp. bd. each side.

CONCRETE WALL (basement only)

5/8" type 'x' gyp. bd. on ½" A-B plywood on 3 5/8" mtl. studs. Extend assembly to deck.

✳ DIMENSIONS TO FINISHED FACE - ALL OTHERS TO FACE OF STUD OR CMU

FOURTH FLOOR PLAN

1/8"

13

STATE OF NEW MEXICO
Ben L. Hutchinson
No. 6863
James A. Burton
No. 4908
Mike K. Norton
No. 855
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102

Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4/14/86
Checked by: JLJ
Drawing Title: FOURTH FLOOR PLAN

Drawing: A2.9
Sheet: 89

DOOR SCHEDULE — FIFTH FLOOR

	DOOR						FRAME			DETAILS				FIRE RTG.	DOOR SIGN		HARDWARE SET#	REMARKS
		PAIR	SIZE WIDTH	SIZE HEIGHT	SIZE THICK	MATERIAL	TYPE	MATERIAL	TYPE	DEPTH	HEAD	JAMB	JAMB	SILL		ROOM #		
	501	●	3'11 5/8"	7'	1 3/4"	WD	D	HM	4	6"	6/A3.2	4/A3.3	4/A3.3	—	20		5	
	502		3'	7'	1 3/4"	WD	D		7	6"	5/A3.2	20/A3.3	20/A3.3	—	20		8	
	503								7	7½"	9/A3.2	7/A7.5	6/A3.2	—	90	STAIR	9	
	504								7	6"	5/A3.2	5/A3.2	5/A3.2	—	20		13	
	505								7		5/A3.2	5/A3.2	5/A3.2	—	20		13	
	506								6		5/A3.2	5/A3.2	8/A3.2	—	20		13	
	507								7		5/A3.2	5/A3.2	5/A3.2	—			12	
	508								7		5/A3.2	5/A3.2	5/A3.2	—			11	
	509								7		5/A3.2	5/A3.2	5/A3.2	—	20	MEN	10	w/H.C. symbol
	510								5		5/A3.2	5/A3.2	8/A3.2	—	20		13	
	511								7		5/A3.2	8/A3.2	5/A3.2	—	20		13	
	512								7		5/A3.2	5/A3.2	5/A3.2	—	20	WOMEN	10	w/H.C. symbol
	513								7		5/A3.2	5/A3.2	5/A3.2	—			11	
	514								6		5/A3.2	5/A3.2	8/A3.2	—	20		13	
	515								7	6"	5/A3.2	5/A3.2	5/A3.2	—	20		13	
	516								7	7½"	10/A3.2	6/A3.2	7/A7.5	—	90	STAIR	9	
	517									6"	5/A3.2	20/A3.3	20/A3.3	—	20		8	
	518										5/A3.2	5/A3.2	5/A3.2	—			15	
	519													—	20		13	
	520													—	20		13	
	521													—	20		13	
	522													—	20		13	
	523		3'	7'	1 3/4"	WD		HM						—	20		13	
	524		2'	7'	1 3/4"	WD		HM						—			18	
	525		3'	7'	1 3/4"	WD		HM						—	20		13	
	526													—	20		13	
	527													—			15	
	528													—	20		13	
	529													—	20		13	
	530													—	20		15	
	531													—	20		13	
	532													—	20		13	
	533													—	20		13	
	534													—	20		13	
	535													—	20		13	
	536													—			8	
	537													—			8	
	538													—			14	
	539													—			14	
	540													—			14	
	541													—			14	
	542													—	20		15	
	543													—			15	
	544													—			14	
	545													—			14	
	546													—			15	
	547													—			14	
	548		3'	7'	13/4	WD		HM						—			14	
	549		2'	7'	13/4	WD		HM						—			18	
	550		3'	7'	13/4	WD	B	HM	7	6	15/A3.2	5/A3.2	5/A3.2	—			14	
	551		3'	7'	13/4	WD	"	HM	"	"	"	"	"	—			14	
	552		"	"	"	"	"	"	"	"	"	"	"	—			14	
	553		Folding Partition (See Specs)											—				
PENTHOUSE	601		3'	7'	1 3/4"	HM	A	HM	7	6	11/A3.3	11/A3.3	11/A3.3	10/A3.3	90		16	
	602		"	"	"	"	"	"	"	"	9/A3.3	"	"	"			16	
	603		"	"	"	"	"	"	"	"	5/A3.2	5/A3.2	5/A3.2	—	90		20	
	604		"	"	"	"	"	"	"	"	"	"	"	—	90		20	
	605		"	"	"	"	"	"	"	"	9/A3.3	11/A3.3	11/A3.3	10/A3.3			16	
	606		"	"	"	"	"	"	"	"	"	"	"	"	90		16	

ROOM FINISH SCHEDULE — FIFTH FLOOR

	#	ROOM	FLOOR: CERAMIC TILE 1	CARPET #1 2	VCT 3	RUB. TREADS/LANDING 4	RAISED RADIAL 5	EXPOSED CONC. 6	CARPET # 2 7	BASE: 4" CERAMIC 1	4" VINYL TOELESS 2	4" VINYL COVE 3	NO BASE 4	WALL: GYP. BD. PAINT 1	GYP. BD. PAINT ENAMEL 2	CEILING: SUSPEND GYP. BD. 1	1x4 LAY-IN 2	NO CEILING 3	CEILING HEIGHT	REMARKS
COMMON	500	LOBBY							7	2				1		1				
	501	ELEV. LOBBY	1							1				1		1				
	502	WOMEN	1							1					2	1				
	503	MEN	1							1					2	1				
	504	CORRIDOR							7		2			1			2			
	505	CORRIDOR							7		2			1			2			
	506	TELEPHONE		3								3			2	1				
	507	ELECTRICAL		3								3			2	1				
	510	JANITOR		3								3			2	1				
		STAIR			4								4							
		STAIR			4								4							
		ELEV.				5														
		ELEV.				5														
CHIEF'S ADMINISTRATION	520	RECEPTION		2						2				1			2			
	521	CORRIDOR		2						2				1			2			
	521A	CLOSET		2						2				1			2			
	522	OFFICE		2						2				1			2			
	523	FILES			3						3			1			2			
	524	OFFICE		2						2				1			2			
	525	COPY			3						3			1			2			
	525A	MAIL			3						3			1			2			
	526	OFFICE		2						2				1			2			
	527	CORRIDOR		2						2				1			2			
	528	OFFICE		2						2				1			2			
	529	OFFICE		2						2				1			2			
	530	OFFICE		2						2				1			2			
	531	CORRIDOR		2						2				1			2			
	532	CHIEF'S OFFICE		2						2				1			2			
	532A	TOILET	1							1					2	1				
	533	WORD PROCESSING		2						2				1			2			
SHERIFF'S HEADQUARTERS	540	RECEPTION		2						2				1			2			
	541	CORRIDOR		2						2				1			2			
	541A	CLOSET		2						2				1			2			
	542	OFFICE		2						2				1			2			
	543	FILES			3						3			1			2			
	544	OFFICE		2						2				1			2			
	545	COPY			3						3			1			2			
	545A	MAIL			3						3			1			2			
	546	OFFICE		2						2				1			2			
	547	CORRIDOR		2						2				1			2			
	548	OFFICE		2						2				1			2			
	549	WORD PROCESSING		2						2				1			2			
	550	OFFICE		2						2				1			2			
	551	CORRIDOR		2						2				1			2			
	552	SHERIFF'S OFFICE		2						2				1			2			
	552A	TOILET	1							1					2	1				
	560	VACANT		2						2				1			2			
PENTHOUSE	600	BOILER ROOM					6				4				2			3		
	601	HOIST ROOM					6				4				2			3		
	602	HOIST ROOM					6				4				2			3		
	603	MECHANICAL					6				4				2			3		
	604	MECHANICAL					6				4				2			3		

SEE REFLECTED CEILING PLAN

Jon A. Hutchinson No. 8371
Donald F. Burton No. 1059
Jon R. Burton No. 855
REGISTERED ARCHITECTS
STATE OF NEW MEXICO

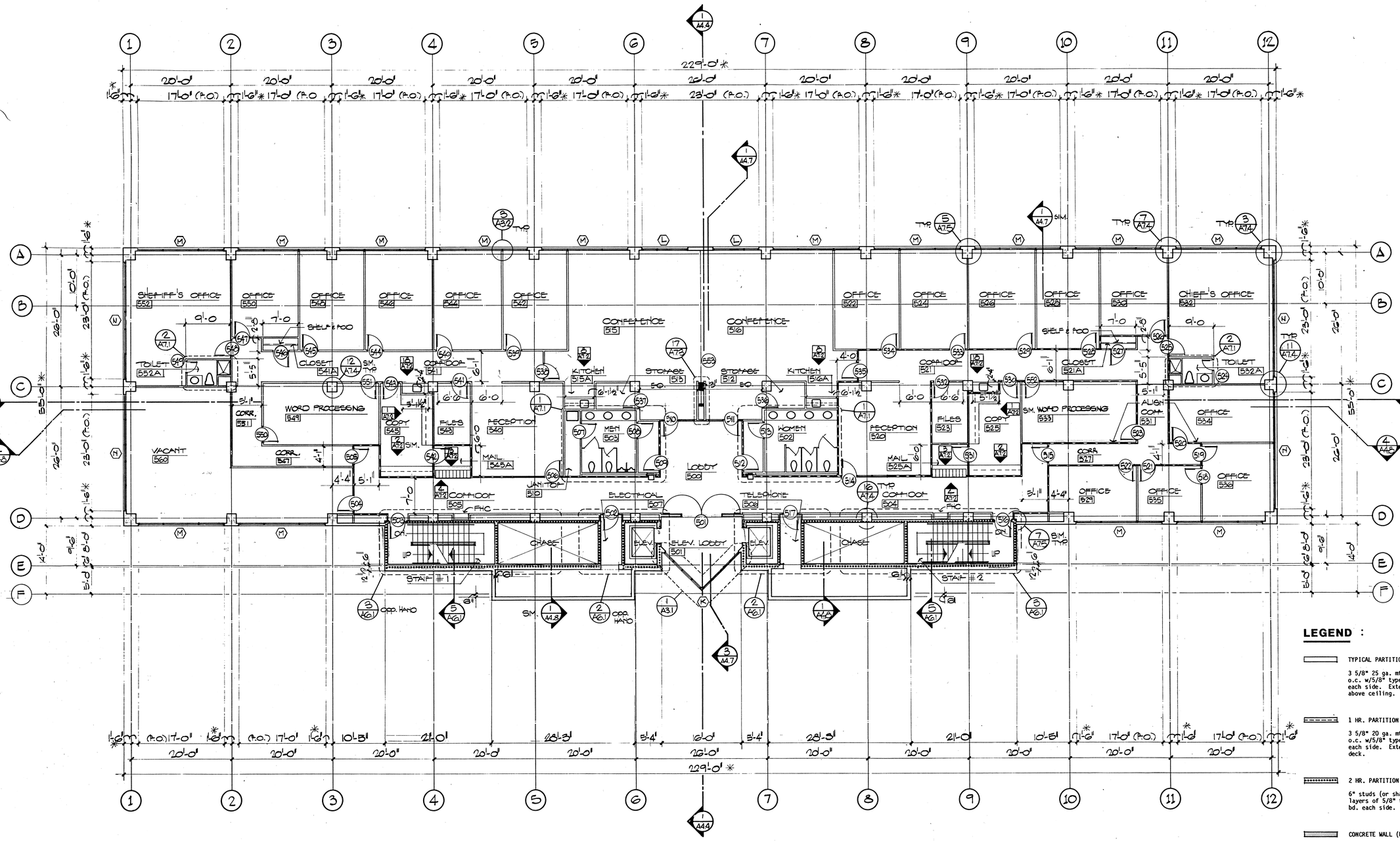
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102

Project Number: 8506
Date: 4-14-86
Checked by:

Drawing Title: Fifth Floor Finish Schedule

Drawing A2.10
Sheet 21 of 111



FIFTH FLOOR PLAN

1/8"

LEGEND :

- TYPICAL PARTITION
  3 5/8" 25 ga. mtl. studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend min. 12" above ceiling.
- 1 HR. PARTITION
  3 5/8" 20 ga. mtl studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend assembly to deck.
- 2 HR. PARTITION
  6" studs (or shaft wall) w/2 layers of 5/8" type 'x' gyp. bd. each side.
- CONCRETE WALL (basement only)
- 5/8" type 'x' gyp. bd. on ½" A-B plywood on 3 5/8" mtl. studs. Extend assembly to deck.
- * DIMENSIONS TO FINISHED FACE - ALL OTHERS TO FACE OF STUD OR END

STATE OF NEW MEXICO
Registered Architect

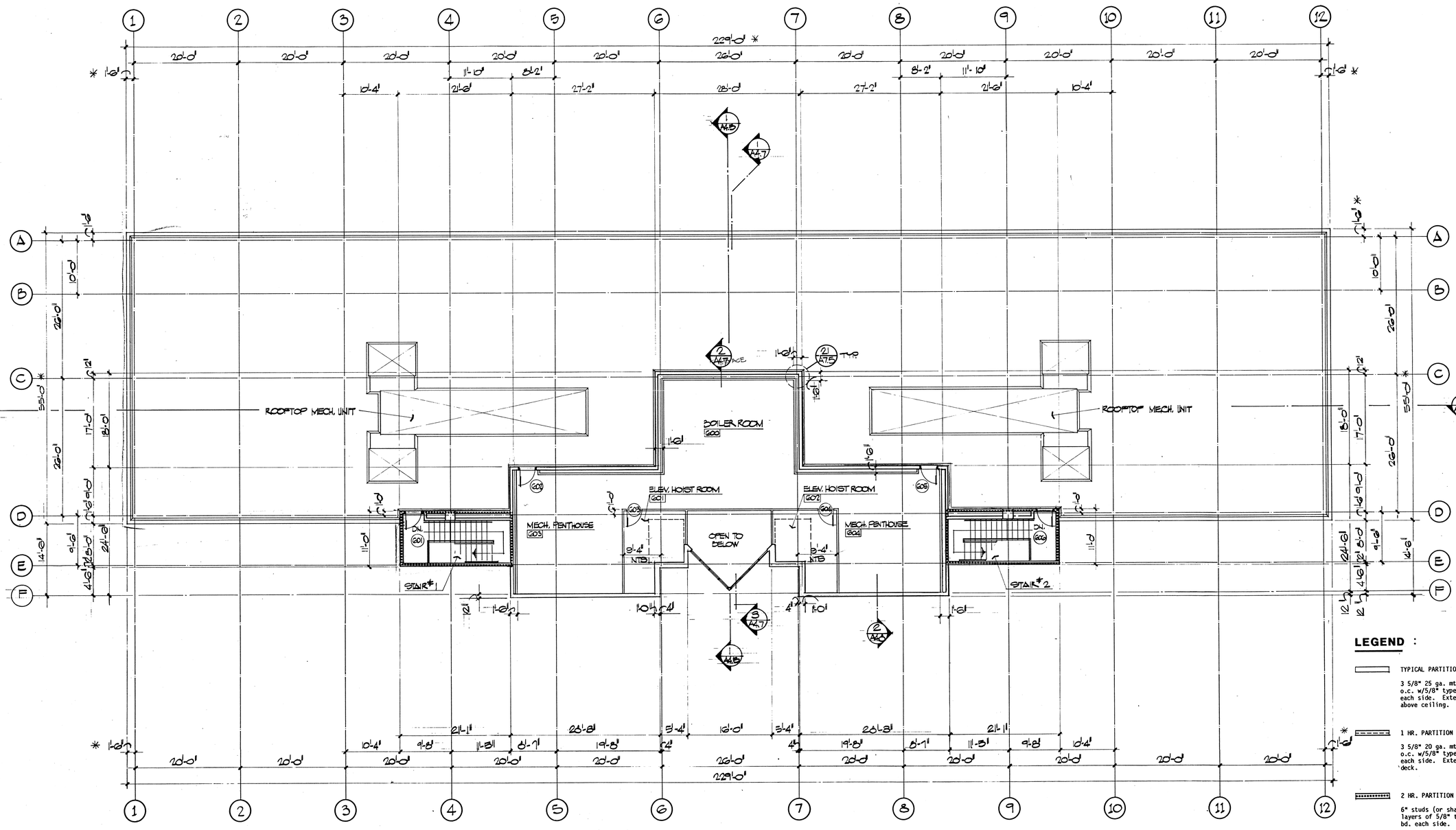
LAW ENFORCEMENT CENTER

400 Roma N.W.
Albuquerque, New Mexico 87102

Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5639

Project Number
8506
Date
4/14/86
Checked by
JLJ
Drawing Title
FIFTH FLOOR PLAN

Drawing
A2.11
Sheet
22
of
111



PENTHOUSE FLOOR PLAN

1/8"

LEGEND :

TYPICAL PARTITION

3 5/8" 25 ga. mtl. studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend min. 12" above ceiling.

1 HR. PARTITION

3 5/8" 20 ga. mtl studs @ 24" o.c. w/5/8" type 'x' gyp. bd. each side. Extend assembly to deck.

2 HR. PARTITION

6" studs (or shaft wall) w/2 layers of 5/8" type 'x' gyp. bd. each side.

CONCRETE WALL (basement only)

5/8" type 'x' gyp. bd. on ½" A-B plywood on 3 5/8" mtl. studs. Extend assembly to deck.

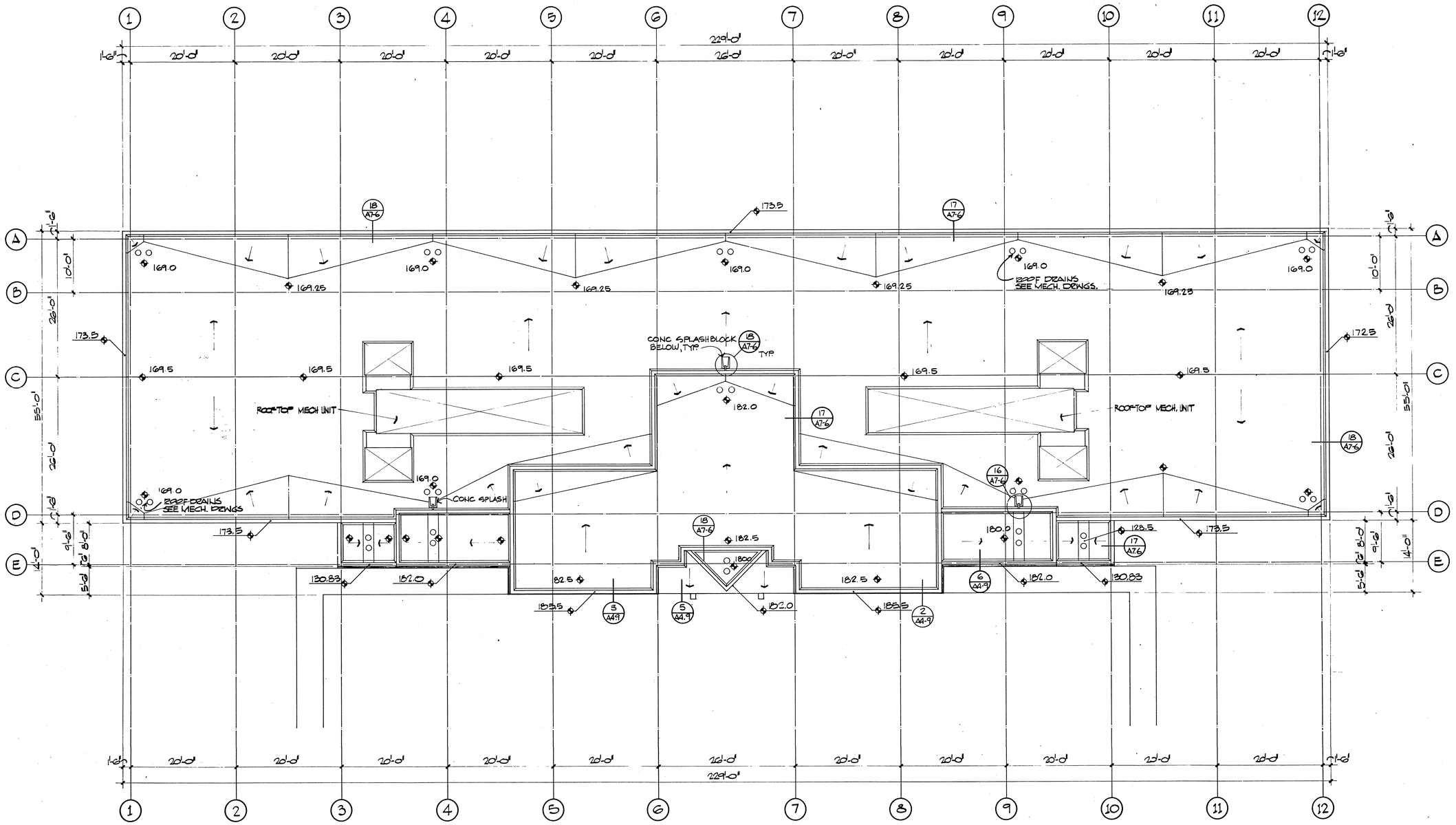
DIMENSIONS TO FINISHED FACE - ALL OTHERS TO FACE OF STUD OR CMU

STATE OF NEW MEXICO
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
8506
Date
4/14/86
Checked by
JLJ
Drawing Title
Penthouse Floor Plan

Drawing
A2.12
Sheet
33



ROOF PLAN
1/8"

STATE OF NEW MEXICO
Registered Architects
No. 857
No. 7548
No. 855

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102

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Project Number
8506
Date
4/14/86
Checked by
JLJ
Drawing Title
Roof Plan

Drawing
A2.13
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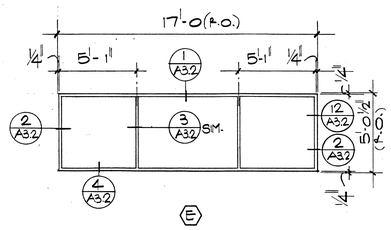
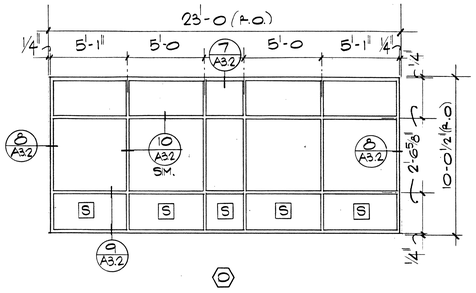
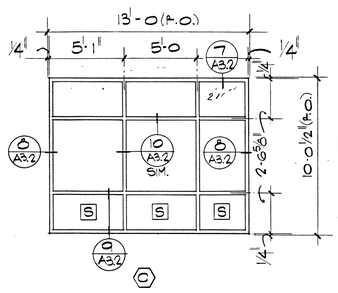
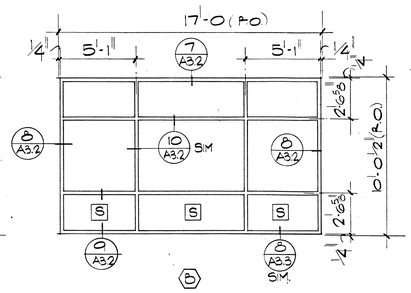
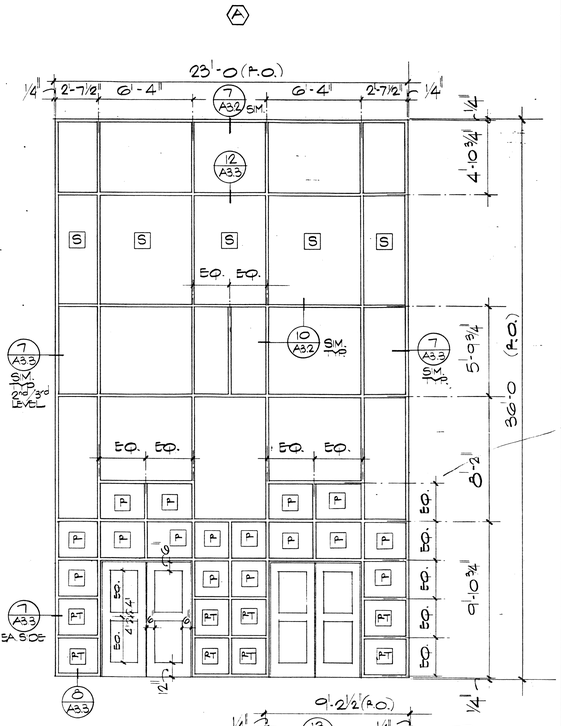
34
of
111

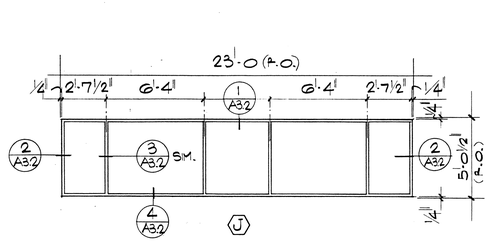


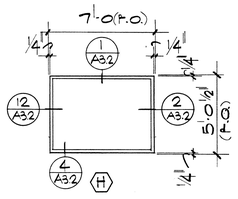


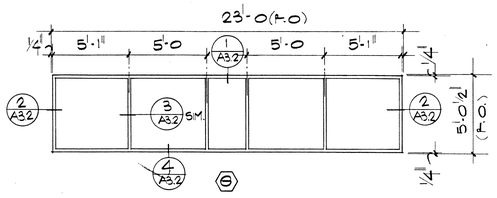


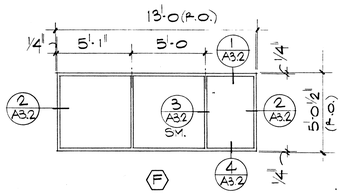


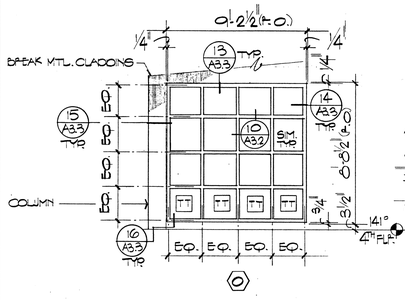


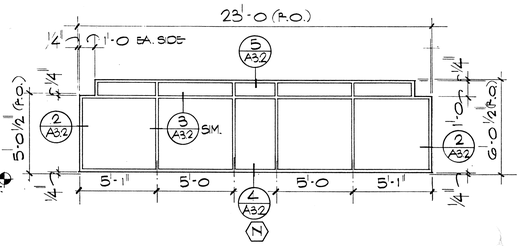


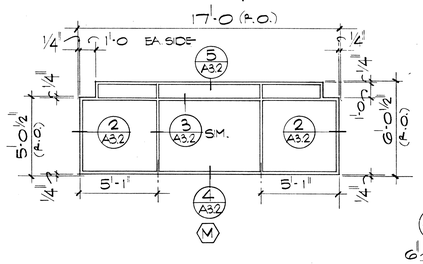


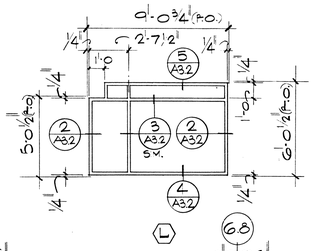


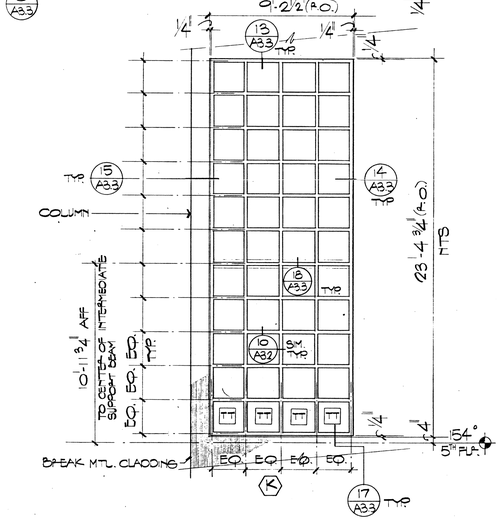


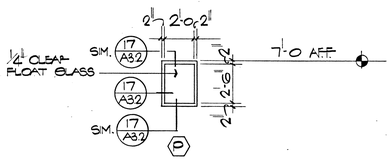


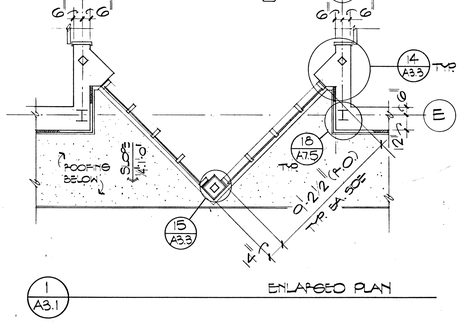


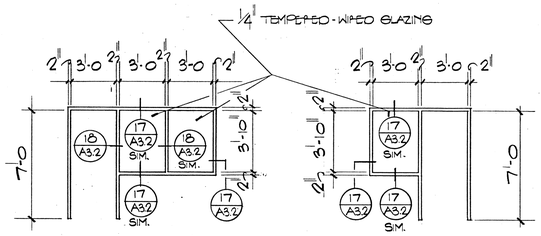


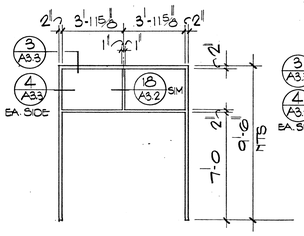


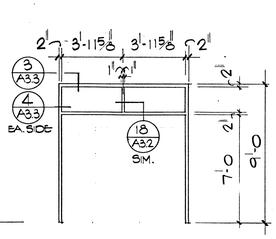


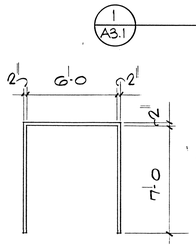


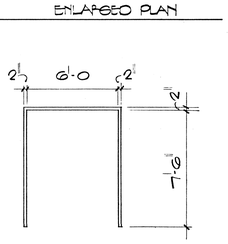


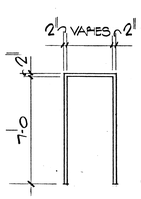


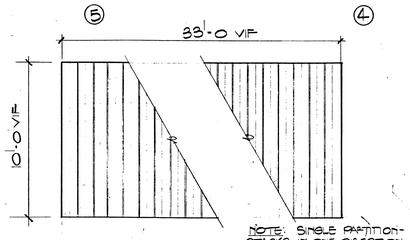




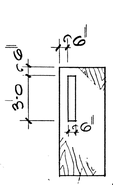








FOLDING PARTITION - SEE SPECS.



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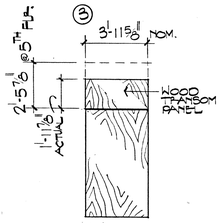

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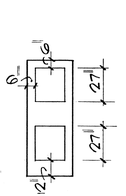

HOLLOW METAL

SCW

HOLLOW METAL

GENERAL NOTES:

FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION

ALL EXTERIOR GLAZING 1" INSULATED - TINTED UNLESS OTHERWISE NOTED

ALL INTERIOR GLAZING 1/4" WIPED UNLESS OTHERWISE NOTED

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

GLAZING LEGEND:

S — SPANDREL

P — 1" INSULATED - TINTED - REFLECTIVE

PT — 1" INSULATED - TINTED - REFLECTIVE - TEMPERED

TT — 1" INSULATED - TINTED - TEMPERED

STATE OF NEW MEXICO
Jon L. Hutchinson
No. 8351
James T. Roland
No. 4099
Paul M. Burton
No. 855
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER

400 Roma N.W.
Albuquerque, New Mexico 87102

Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
8506
Date
4/14/92
Checked by
Drawing Title
Doors & Windows

Drawing
A3.1
Sheet
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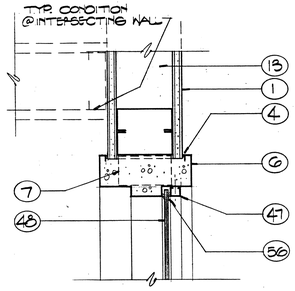
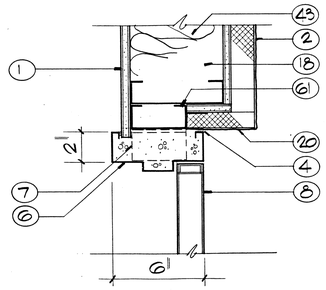
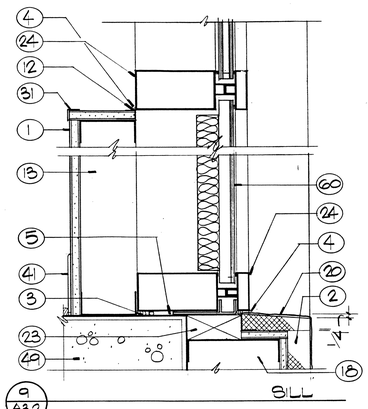


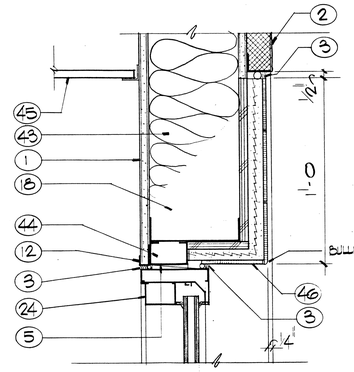
17 / A3.2 JAMB HEAD SIM.



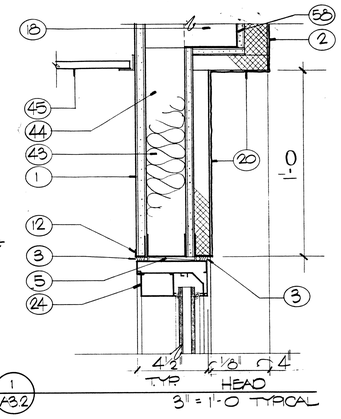
13 / A3.2 JAMB/HEAD SIM.



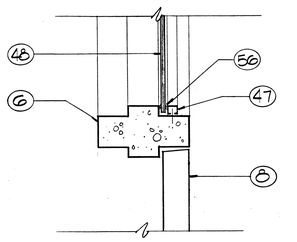
9 / A3.2 SILL



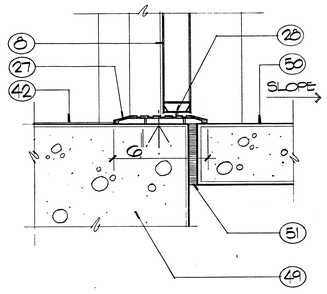
5 / A3.2 HEAD



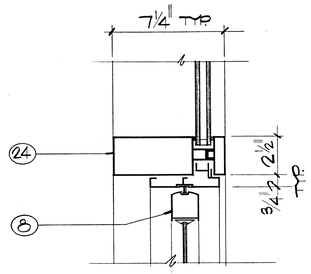
1 / A3.2 JAMB HEAD
3" = 1'-0" TYPICAL



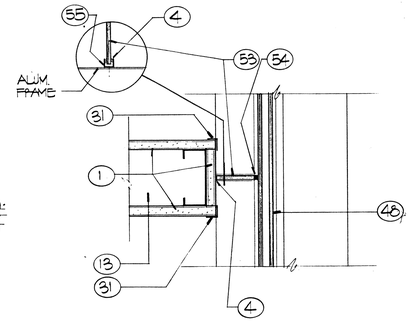
18 / A3.2 JAMB



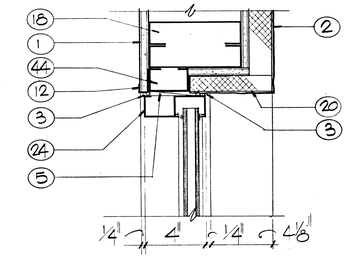
14 / A3.2 SILL



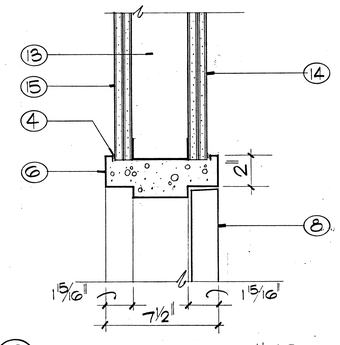
10 / A3.2 JAMB



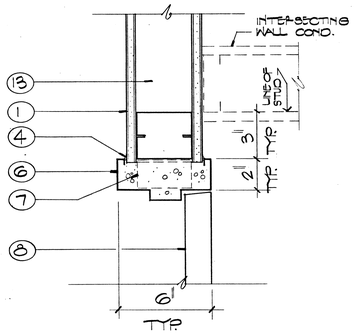
6 / A3.2 DETAIL



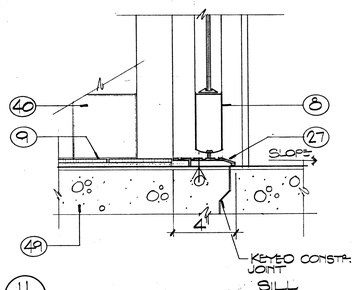
2 / A3.2 JAMB



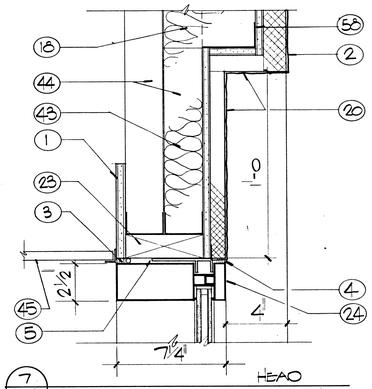
19 / A3.2 HEAD



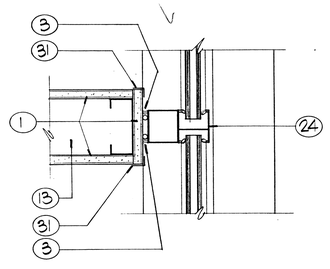
15 / A3.2 JAMB/HEAD SIM.



11 / A3.2 SILL



7 / A3.2 HEAD



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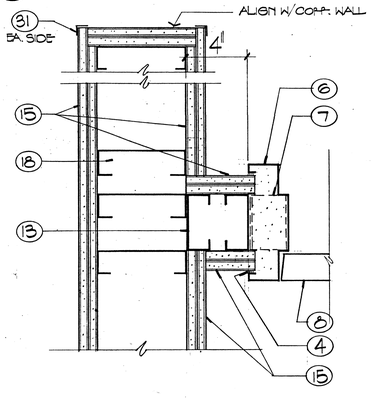
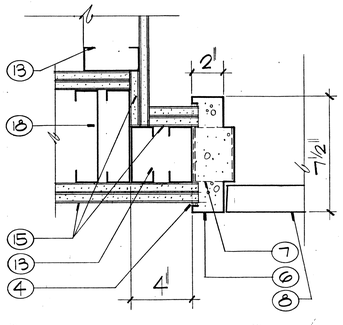
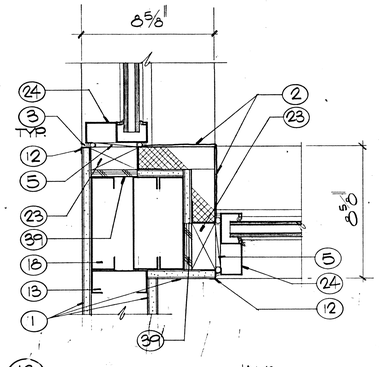


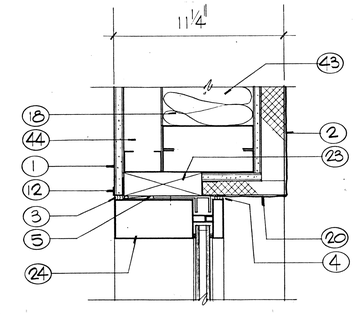
20 / A3.2 JAMB



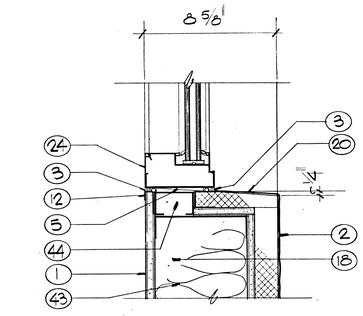
16 / A3.2 JAMB



12 / A3.2 JAMB



8 / A3.2 JAMB



4 / A3.2 SILL

KEYED NOTES:

1. 5/8" type 'x' gyp. bd.
2. Synthetic finish on 1½" polystyrene on ½" gyp. bd. sheathing
3. Sealant & backer rod
4. Sealant - each side or as shown
5. ¼" shim space
6. Hollow metal frame - grout solid
7. Jamb anchor - min. 3 per jamb - typical @ each jamb
8. Door as scheduled
9. Thin set ceramic tile - see specifications
10. Spray-on fireproofing - see specifications (2" thk. unless noted.)
11. Steel column - see structural
12. Continuous metal j-mold
13. 35/8" metal stud framing @ 24" o.c. max. - see specifications for gauges.
14. 2 layers of ½" gyp. bd.- remove & replace existing gyp. bd. to nearest existing stud where applicable
15. 2 layers of 5/8" type 'x' gyp. bd.
16. Existing construction
17. 1 5/8" 20 ga. metal stud framing as required
18. 6" - 16 ga. framing @ 24" o.c. max.
19. Drip as shown
20. Synthetic finish on 1" polystyrene on ½" gyp. bd. sheathing
21. Steel girt - see structural
22. 10 ga. break metal-attach behind window frame and/or exterior finish or as shown (To match storefront)
23. 2 x blocking
24. Aluminum window frame with glazing-anchor as per manufacturer's recommendations.
25. Gaskets as required to isolate aluminum from steel
26. Tubular steel support - see sturctural
27. Threshold - set in sealant & anchor as per manufacturer's recommendations
28. Door bottom weatherstipping
29. Metal counterflashing - set in mastic.
30. Roofing - see sheet A7.6 for details
31. Continuous metal corner bead
32. 6" shaft wall - see specifications
33. ½" gyp. bd. sheathing
34. Elevator door & jamb - see detail sheet A6.2
35. Steel connector - see structural-clad w/break metal (12 ga.) similar to tubular steel support (note # 26)
36. Steel clip angles - see structural
37. Blocking as required
38. Synthetic finish over conc. (see spec.)
39. ¾" plywood sheathing
40. Ceramic tile base
41. Base - see schedule
42. Flooring - see finish schedule
43. Full batt insulation
44. 25/8" 16 ga. framing @ 24" o.c. max.
45. Ceiling - see finish schedule
46. Ceramic tile on 1" setting bed on metal lath on ½" plywood sheathing - (CTI #W201-86)
47. Continuous hollow metal stop
48. Glazing as specified
49. Floor deck - see structural
50. Concrete pavement
51. ½" expansion material
52. Steel bracket - 3" x 3" x length as req'd. - morise into panel - shim as required - one bracket as shown.
53. ¼" clear float glass
54. Continuous clear silicone sealant
55. Aluminum track - finish to match window frames - attach to window frame top & bottom w/¼" alum. screws (2 per track)
56. Gasketed glazing pocket - typical for interior glazing
57. Wood transom panel - align w/door when door is in fully open position
58. 16 ga. sheet metal
59. 1 x 4 furring strips @ 24" o.c.
60. Spandrel panel
61. 3 5/8" 16 ga. mtl. stud.

STATE OF NEW MEXICO
Ron L. Hutchinson No. 857
James J. Brown No. 3867
Hugh E. Burton No. 852
REGISTERED ARCHITECTS

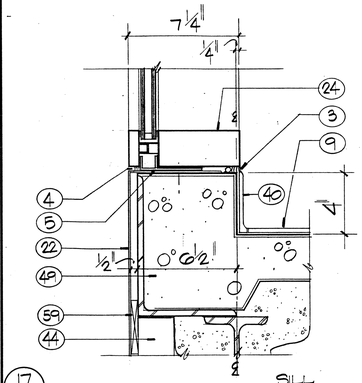
LAW ENFORCEMENT CENTER

400 Roma N.W.
Albuquerque, New Mexico 87102

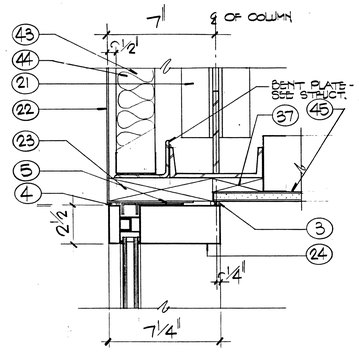
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4 14 86
Checked by:
Drawing Title: DOOR & WINDOW DETAILS

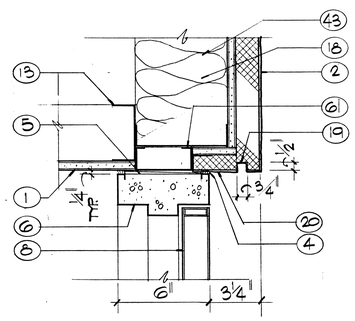
Drawing: A3.2
Sheet 38 of 111



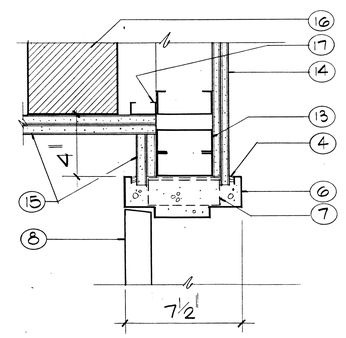
17 / A3.3 SILL



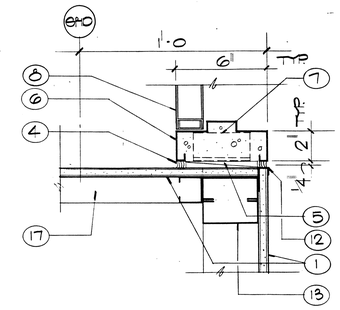
13 / A3.3 HEAD



9 / A3.3 HEAD/JAMB SIM.



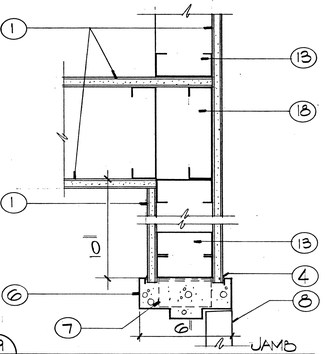
5 / A3.3 JAMB



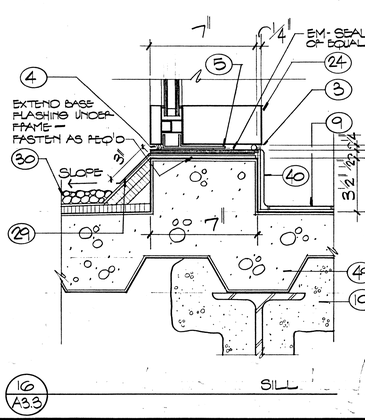
1 / A3.3 JAMB
3" = 1'-0 TYPICAL

KEYED NOTES:

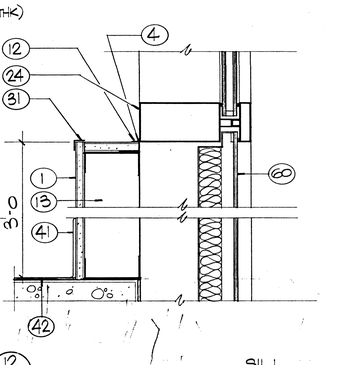
1. 5/8" type 'x' gyp. bd.
2. Synthetic finish on 1¼" polystyrene on ½" gyp. bd. sheathing
3. Sealant & backer rod
4. Sealant - each side or as shown
5. ¼" shim space
6. Hollow metal frame - grout solid
7. Jamb anchor - min. 3 per jamb - typical @ each jamb
8. Door as scheduled
9. Thin set ceramic tile - see specifications
10. Spray-on fireproofing - see specifications (2" thk. unless noted.)
11. Steel column - see structural
12. Continuous metal j-mold
13. 35/8" metal stud framing @ 24" o.c. max. - see specifications for gauges.
14. 2 layers of ½" gyp. bd.- remove & replace existing gyp. bd. to nearest existing stud where applicable
15. 2 layers of 5/8" type 'x' gyp. bd.
16. Existing construction
17. 1 5/8" 20 ga. metal stud framing as required
18. 6" - 16 ga. framing @ 24" o.c. max.
19. Drip as shown
20. Synthetic finish on 1" polystyrene on ½" gyp. bd. sheathing
21. Steel girt - see structural
22. 10 ga. break metal-attach behind window frame and/or exterior finish or as shown (To match storefront)
23. 2 x blocking
24. Aluminum window frame with glazing-anchor as per manufacturer's recommendations.
25. Gaskets as required to isolate aluminum from steel
26. Tubular steel support - see sturctural
27. Threshold - set in sealant & anchor as per manufacturer's recommendations
28. Door bottom weatherstipping
29. Metal counterflashing - set in mastic.
30. Roofing - see sheet A7.6 for details
31. Continuous metal corner bead
32. 6" shaft wall - see specifications
33. ½" gyp. bd. sheathing
34. Elevator door & jamb - see detail sheet A6.2
35. Steel connector - see structural-clad w/break metal (12 ga.) similar to tubular steel support (note # 26)
36. Steel clip angles - see structural
37. Blocking as required
38. Synthetic finish over conc. (see spec.)
39. ½" plywood sheathing
40. Ceramic tile base
41. Base - see schedule
42. Flooring - see finish schedule
43. Full batt insulation
44. 2x4 - 16 ga. framing @ 24" o.c. max.
45. Ceiling - see finish schedule
46. Ceramic tile on 1" setting bed on metal lath on ½" plywood sheathing - (CTI #W201-86)
47. Continuous hollow metal stop
48. Glazing as specified
49. Floor deck - see structural
50. Concrete pavement
51. ½" expansion material
52. Steel bracket -.3" x 3" x length as req'd. - morise into panel - shim as required - one bracket as shown.
53. ¼" clear float glass
54. Continuous clear silicone sealant
55. Aluminum track - finish to match window frames - attach to window frame top & bottom w/⅛" alum. screws (2 per track)
56. Gasketed glazing pocket - typical for interior glazing
57. Wood transom panel - align w/door when door is in fully open position
58. 16 ga. sheet metal
59. 1 x 4 furring strips @ 24" o.c.
60. Spandrel panel
61. 3 5/8" 16 ga. mtl. stud.



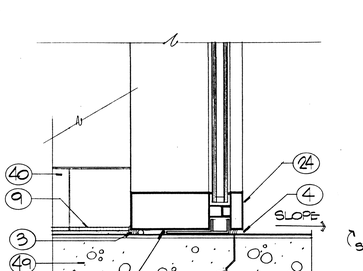
18 / A3.3 INTERMEDIATE SUPPORT
1½" = 1'-0



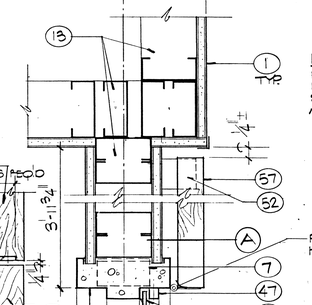
14 / A3.3 JAMB
1½" = 1'-0



10 / A3.3 SILL



6 / A3.3 INTERMEDIATE SUPPORT
1½" = 1'-0



2 / A3.3 HEAD

19 / A3.3 JAMB

15 / A3.3 COLUMN
1½" = 1'-0

11 / A3.3 JAMB/HEAD SIM.

7 / A3.3 JAMB

3 / A3.3 HEAD

20 / A3.3 JAMB

16 / A3.3 SILL

12 / A3.3 SILL

8 / A3.3 SILL

4 / A3.3 JAMB

NOTE:
DOOR BELOW MUST BE PARALLEL TO WALL - SHIM HOLD OPEN BELOW AS REQ'D

STATE OF NEW MEXICO
Ron L. Hutchinson
Reg. No. 6769
James C. Burton
Reg. No. 6109
Kenneth R. Burton
Reg. No. 825
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
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Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
8506
Date
4-14-86
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Drawing Title
Door & Windows

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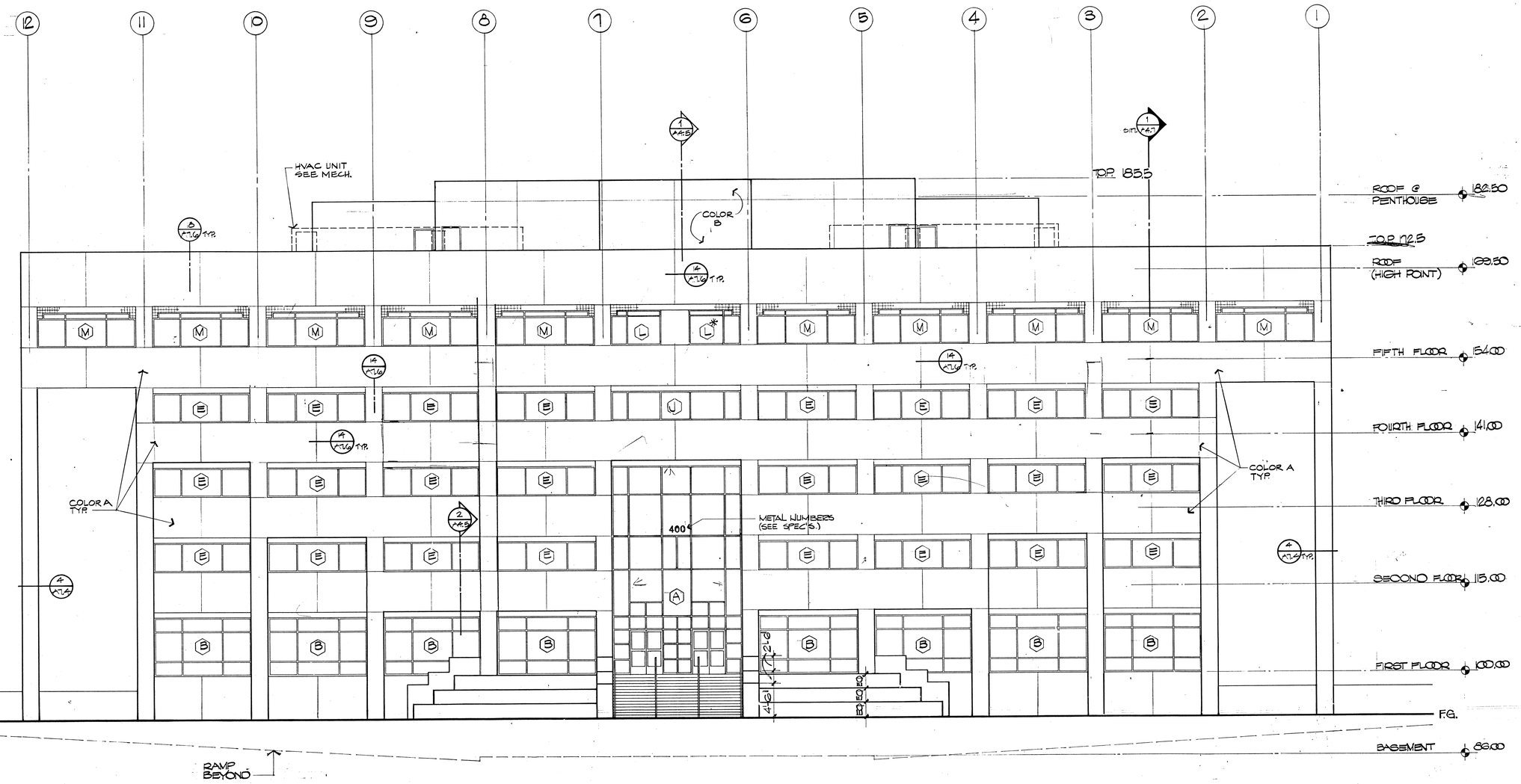

NORTH ELEVATION

1/8"

STATE OF NEW MEXICO
Ron L. Hutchinson No. 857
James Hall No. 9497
Mark E. Burton No. 855
REGISTERED ARCHITECTS

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Project Number
8506
Date
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Drawing Title
North Elevation

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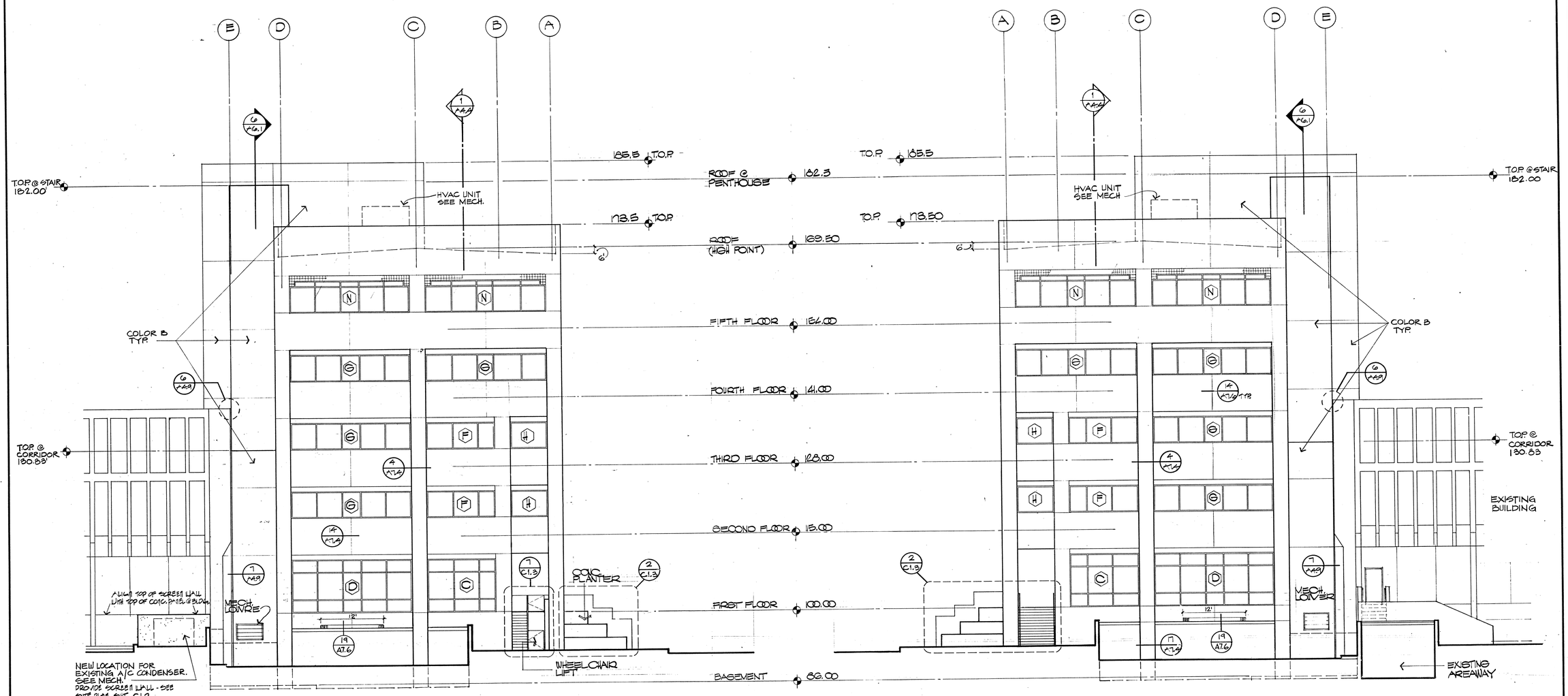
STATE OF NEW MEXICO
Ram L. Hutchinson
Jarmes D. Brown
Mark R. Burton
REGISTERED ARCHITECTS



EAST ELEVATION
1/8"

WEST ELEVATION
1/8"

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400 Roma N.W.
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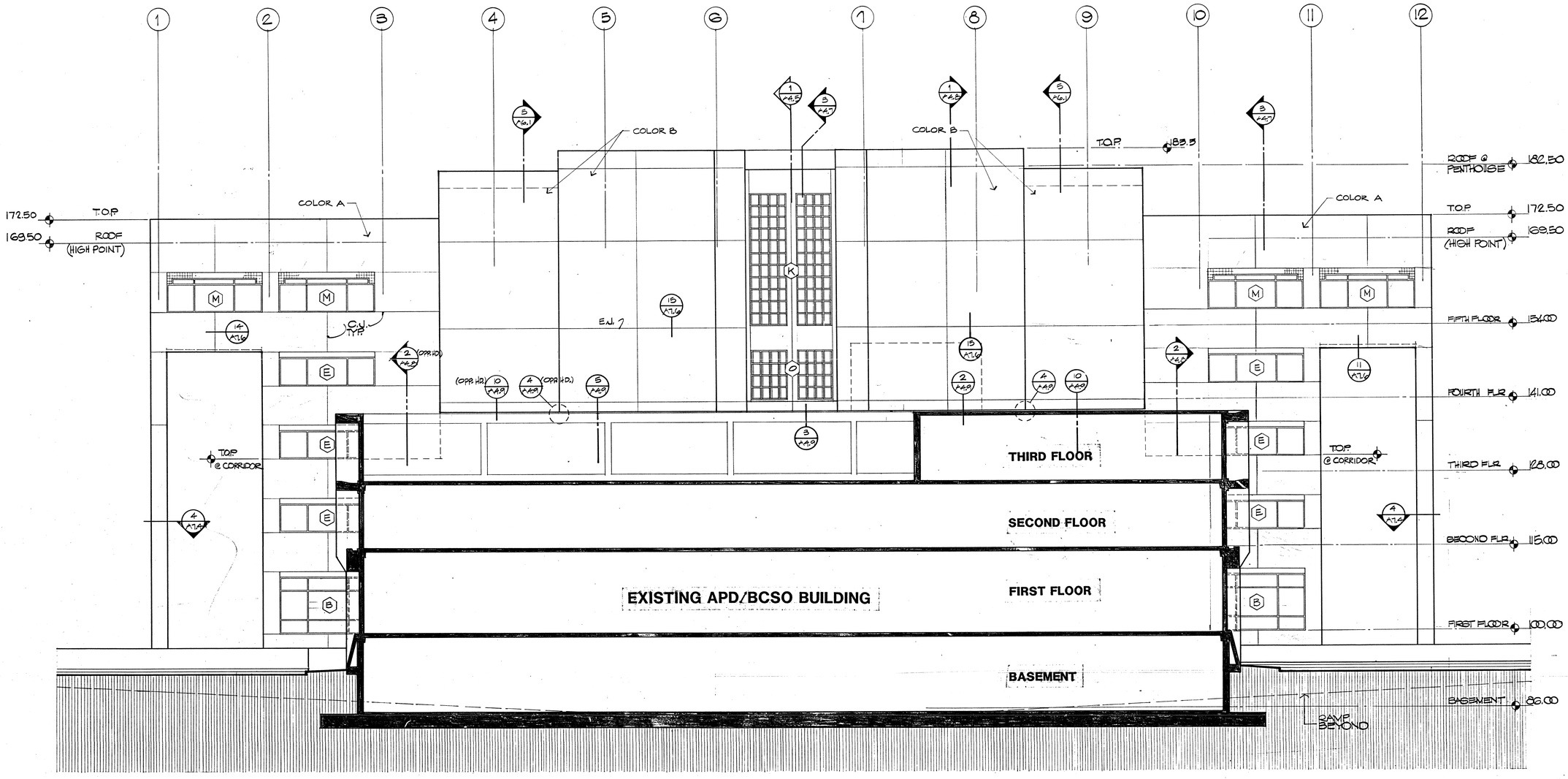
Project Number: 8506
Date: 4-14-86
Checked by:
Drawing Title: East / West Elevation

Drawing A4.2
Sheet 39 of 111



SOUTH ELEVATION

1/8" = 1'-0"

STATE OF NEW MEXICO
Ron A. Hutchinson
No. 7577
Jon A. Brown
No. 10198
Rex R. Burton
No. 855
REGISTERED ARCHITECTS

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Project Number
8506
Date
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Drawing Title
South Elevation

Drawing
A4.3
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of
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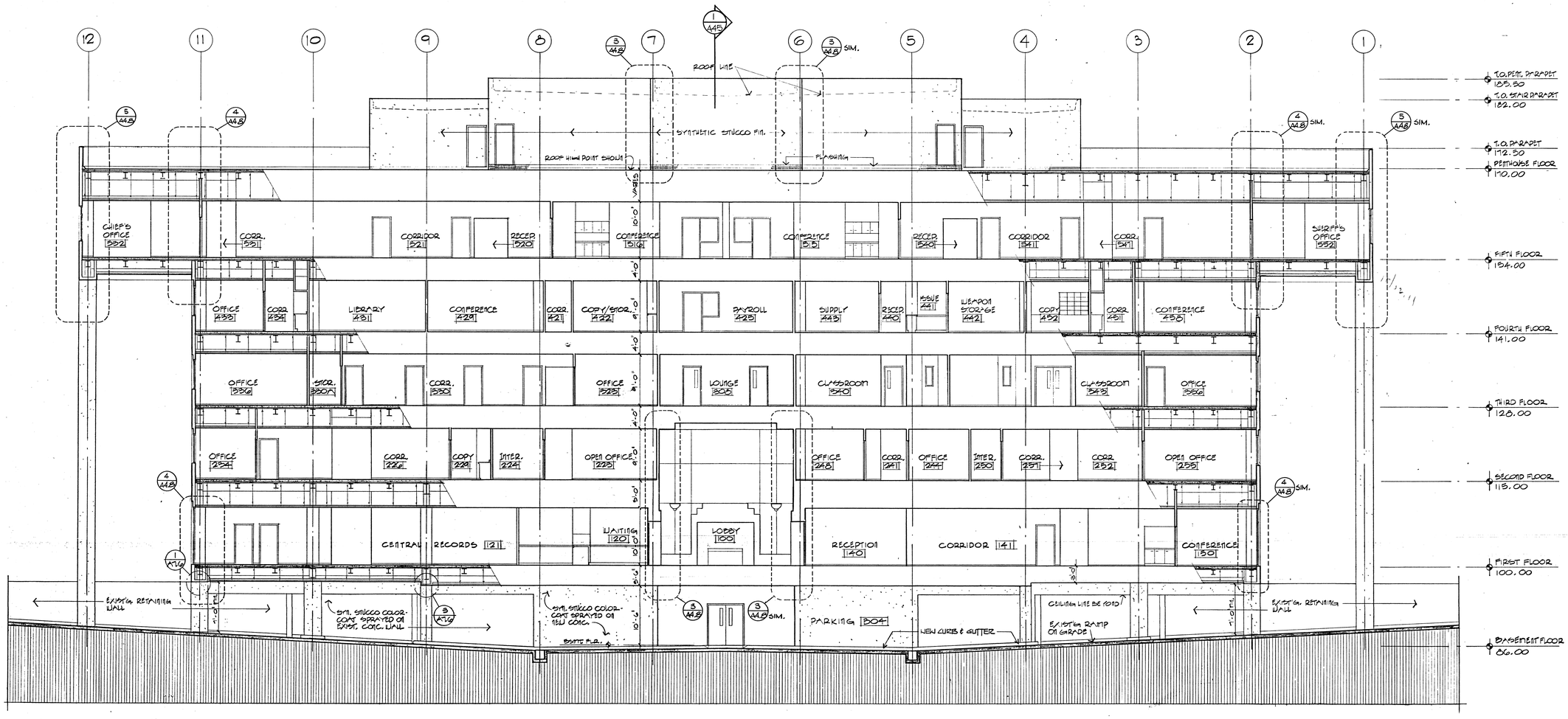

1 A4.4

BUILDING SECTION

SCALE 1/8":1'-0"

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 7978
James T. Brown
No. 7459
Ross K. Burton
No. 825
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER

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Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
3506
Date
4·14·86
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Drawing Title
Building Section

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111

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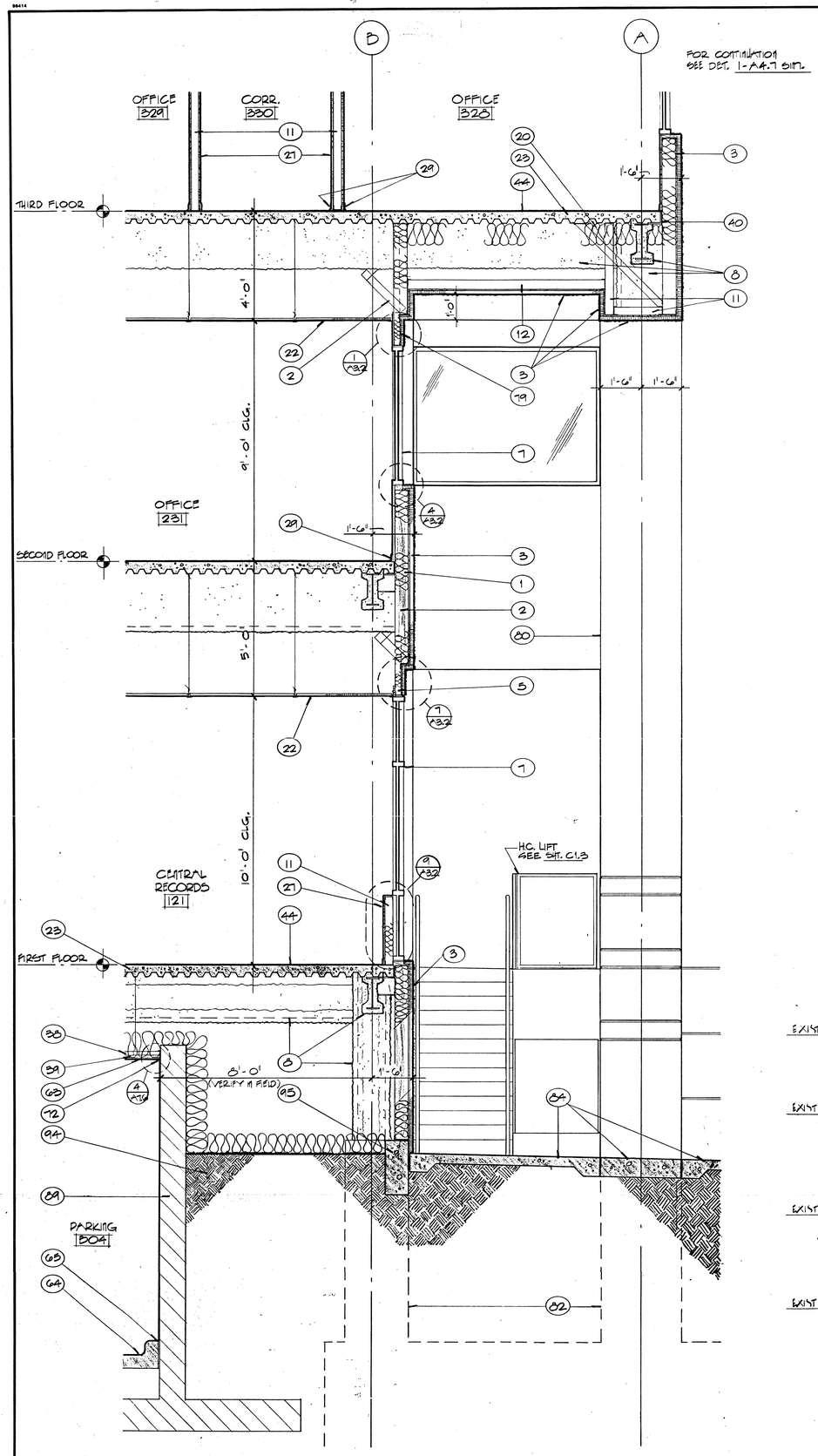
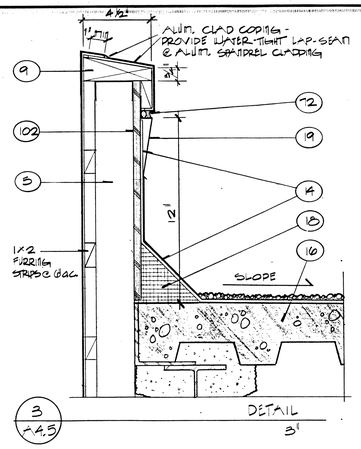
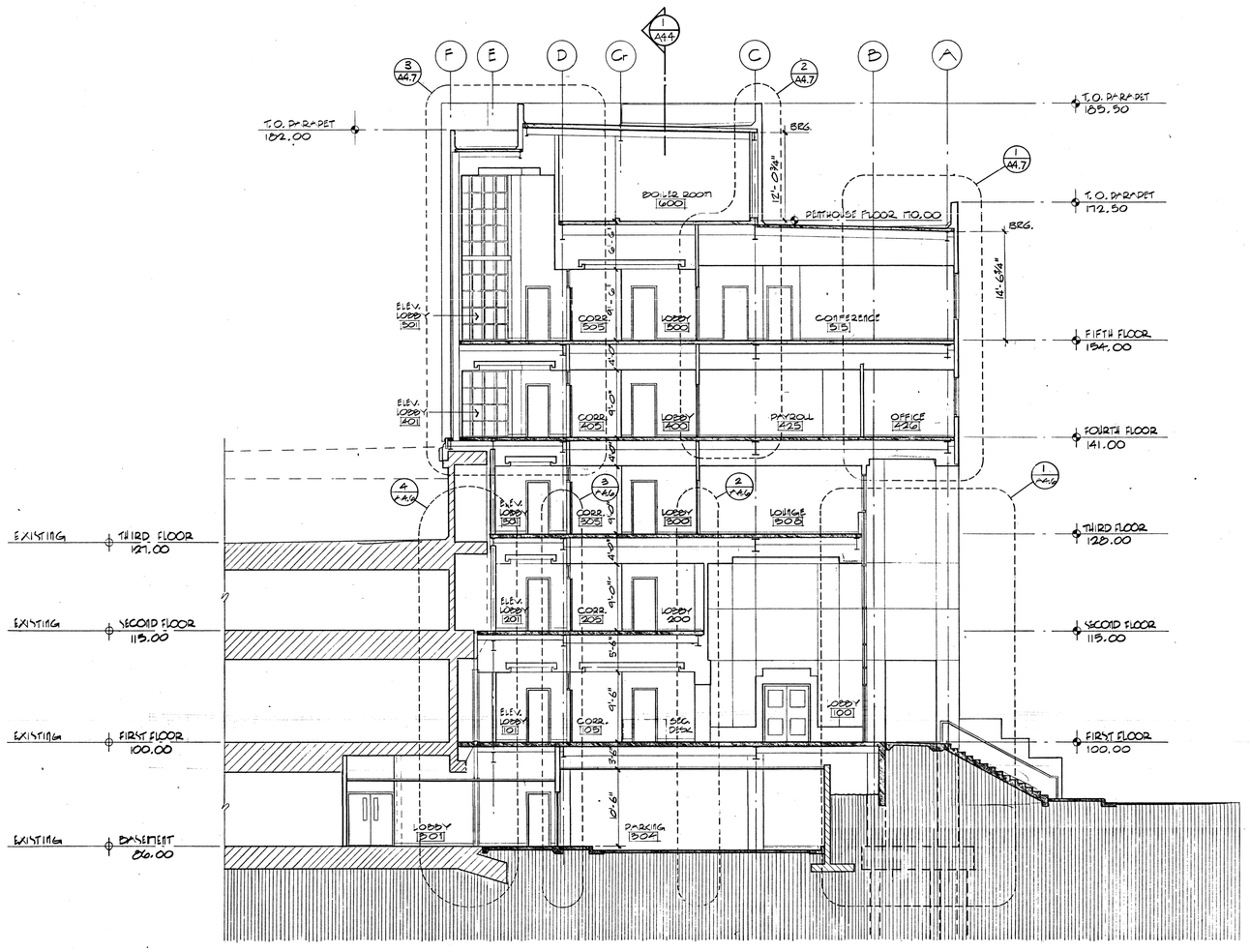


WALL SECTION
1/2" — 2 / A4.5



KEYED NOTES

1. Full batt insulation
2. 6" stl. Struc. Studs & wind bracing (see struc.)
3. Synthetic fin. system on 1½" polystyrene insul. on ½" gyp. gd. sheathing insulation.
4. DELETED
5. 2½" struc. studs (see struc.)
7. Scheduled window
8. 2" Spray fireproofing where required (see spec.)
9. 1½" thk. wd. blkg.
11. 3 5/8" x 20 ga. stl. studs @24"O.C. max.
12. 4" studs x 20 ga. @ 16" O.C.
14. Roofing (see spec.)
16. Light weight conc. roof slab on mtl. decking (see spec.)
18. 4" cant.
19. 25 ga. galv. mtl. counter flashing
20. batt insul. (see spec.)
22. 2 x 4 suspend. acoustic clg. (see specs.)
23. Light weight conc. on 2½" mtl. decking (see struc.)
27. 5/8" gyp. bd. type 'x'
29. Scheduled base
33. Alum. cladding (match window frames)
38. 1½" C.R. channels @ 2'-0" o.c. - suspend w/no. 9 ga. wire @ 4'-0" o.c. max.
39. Hat channels @ 16" o.c. max.
40. Stl. angle or bent plate (see struc.)
44. Scheduled flooring
63. ½" gyp. bd. sheathing w/synthetic finish (see spec.)
64. conc. curb. (see site details)
65. ½" expansion jt. filler
71. Contin. 2½" x 14 ga. runner at ea. side of jt.
72. Backer rod & sealant (see spec.)
79. Synthetic finish system on 1" rigid insul. (see spec.)
80. Control joint
81. Contin. light gage mtl. Z - match gage thk. of studs
82. See struc. for details
84. Exterior conc. slabs. on compacted fill (see struc.)
89. Existing retaining wall to remain. Do not damage waterproofing
94. Compacted fill
95. Grade beam (see struc.)
99. 6" batt insulation on 4 mil. sht. vinyl
100. synthetic finish on conc. wall
102. ¾" ext. gd. plywood sheathing



BUILDING SECTION
1/8" — 1 / A4.5

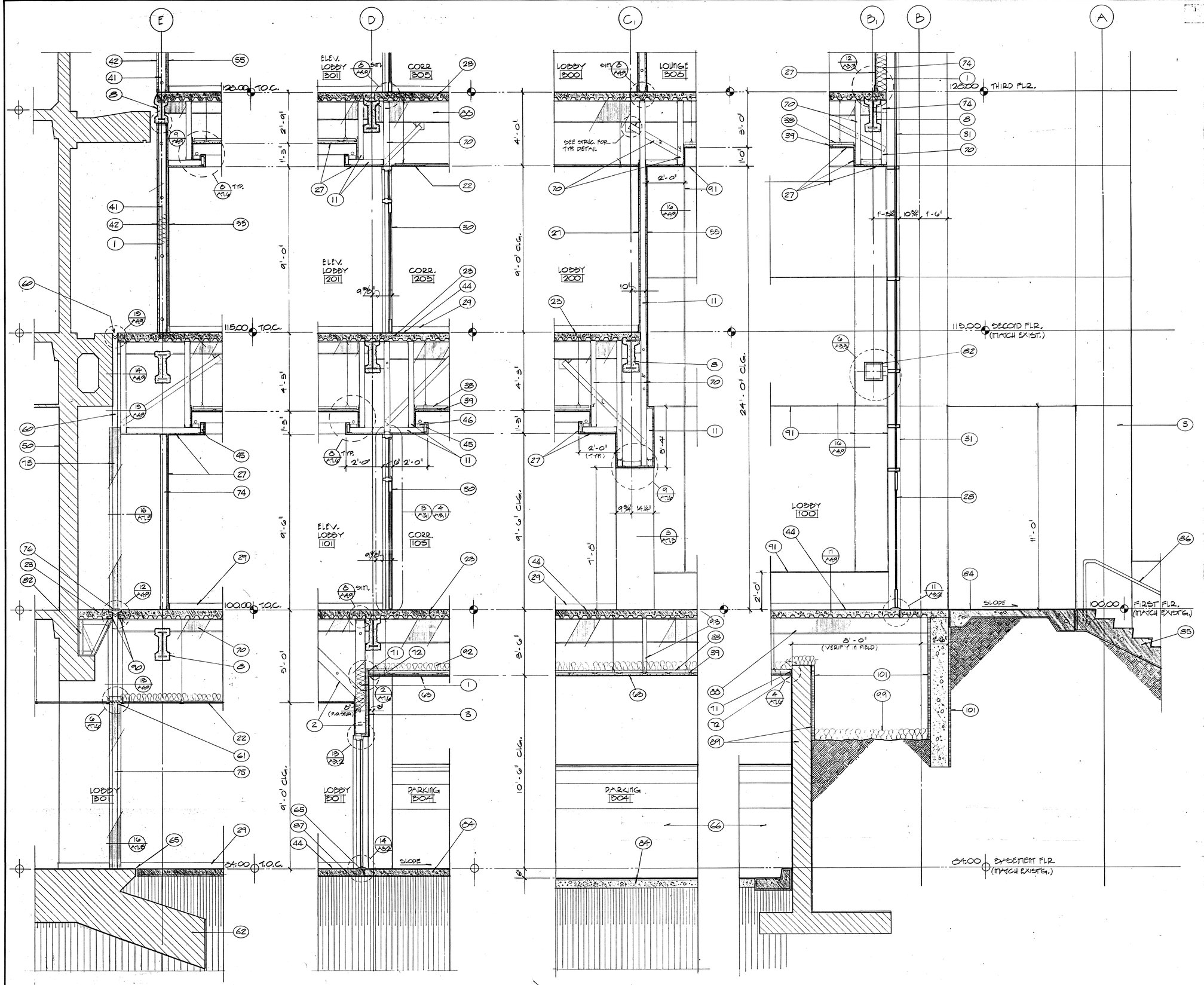
STATE OF NEW MEXICO
Ron L. Hutchinson No. 857
James M. Burton No. 835
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4-14-86
Checked by:

Drawing Title:
Building Section
Wall Section

Drawing A4.5
Sheet 42 of 111



KEYED NOTES:

1. Full batt insulation
2. 6" stl. Struc. Studs & wind bracing @ 24" o.c. (see struc.)
3. Synthetic fin. system on 1½" polystyrene insulation on ½" gyp. bd. sheathing.
4. DELETED
5. 2½" 16 ga. studs (see struc.)
6. Ceramic tile (see spec.)
7. Scheduled window
8. 2" Spray fireproofing where required (see spec.)
9. 1½" thk. wd. blocking
10. 4" x 16 ga. stl. studs @ 16" o.c. max.
11. 3 5/8" x 20 ga. stl. studs @24"O.C. max.
12. 4" studs x 20 ga. @ 16" O.C.
13. 12 ga. wire hanger @ mid-point.
14. Roofing (see spec.)
15. DELETED
16. Light weight conc. roof slab on mtl. decking (see spec.)
17. Rigid foam cricket (see roof plan for depth)
18. 4" rigid foam cant (see spec.)
19. 25 ga. galv. mtl. counter flashing
20. Susp. batt insulation w/16 ga. wire @ 16" o.c.
21. Roof drain/overflow drain (see plumbing)
22. 2 x 4 suspend. acoustic clg. (see spec.)
23. Light weight conc. on 2⅜" mtl. decking (see struc.)
24. Slope floor to drain
25. Floor drain (see plumbing)
26. Conc. curb. (see struc.)
27. 5/8" gyp. bd. type 'x'
28. Scheduled door
29. Scheduled base
30. Scheduled door
31. Curtain wall (see schedule)
32. Stl. girt.(see struc.)
33. Alum. cladding (match window frames)
34. Alum. column cover (match window frames)
35. Face of exterior wall beyond
36. Slope light weight conc. to drain @ 1/8" per foot. min.
37. Provide deep leg track for slip connection
38. 1½" C.R. channels @ 2'-0" o.c. - suspend w/no. 9 ga. wire @ 4'-0" o.c. max.
39. Hat channels @ 16" o.c. max.
40. Stl. angle or bent plate (see struc.)
41. 6" shaft wall studs @ 24" o.c.
42. 3/4" gyp. shaft liner panel
43. Ceramic tile (see spec.)
44. Scheduled flooring
45. Boxed 6" studs
46. Light fixture (see elect.)
47. Blkg. w/cant
48. DELETED
49. Neoprene expansion jt. cover (see spec.)
50. Exist structure
51. Lateral bracing as required (see struc.)
52. 6" x 16 ga. studs @ 24" o.c. - Provide horiz. bracing as reqd. (see struc.)
53. Expansion jt.
54. 6" 16 ga. studs @ 24" o.c. - Provide lateral bracing as reqd. (see struc.)
55. 2 layers 5/8" gyp. bd. type 'x'
56. 2" deep stl. channel clip as reqd. (see specs.)
57. Fill void w/fire safe insulation (see spec.)
58. Remove exist. infill walls as reqd. (see floor plans)
59. Finish face to match existing.
60. Contin. flexible fire barrier system (see spec.)
61. Vinyl expansion joint filler (see spec.)
62. Existing foundation
63. 5/8" exterior grade gyp. bd. w/synthetic finish (see spec.)
64. Conc. curb. - (see site details)
65. ¼" expansion jt. filler
66. Conc. paving (see specs.)
67. Remove exist. mtl. stud & stucco fins. as required (see floor plans)
68. Grout (see spec.)
69. 2 layers 5/8" gyp. bd. type 'x' tie into 2 hr. wall @ Col. Line 'E'.
70. 3 5/8" x 20 ga. Stl. studs @ 24" o.c. max. - provide lateral bracing as reqd. (see struct.)
71. Contin. 2½" x 14 ga. runner at ea. side of jt.
72. Backer rod & sealant (see spec.)
73. Vinyl expansion jt. filler (see spec.)
74. 3 5/8" x 25 ga. studs @ 24" o.c. - Provide lateral brcg. to deck as reqd.
75. Alum. wall expan. jt. cover w/2 hr. fire rating (see spec.)
76. Alum. flr. expan. jt. cover w/2 hr. fire rating (see spec.)
77. Limits of 2 hr. wall
78. Remove existing gravel stop, b.u.roofing, angle, rigid insul. and lightweight conc. in this area. Provide new wd. blkg., rigid insul., Light weight conc. and reuse stl. angle at new location as shown.
79. Synthetic finish system on 1" polystyrene insul. (see spec.)
80. Control joint
81. Contin. light gage mtl. Z - match gage thk. of studs.
82. See struc. for details
83. Recessed incandescent light fixture at entry doors (see elect.)
84. Exterior conc. slabs. on compacted fill (see struc.)
85. Exterior conc. stairs on compacted fill
86. Alum. handrails w/integral lighting (see elec.)
87. Conc. slab on compacted fill (see struc.)
88. Secondary struc. member w/o fireproofing (see spec.)
89. Existing retaining wall to remain. DO NOT DAMAGE WATERPROOFING
90. Contin. 6" x 4" x 5/16" angle @ each side of expansion jt., Typ. (see struc.)
91. reveal
92. 6" batt insulation (see spec.)
93. 2½" x 14 ga. mtl. stud wind-strut @ 8'-0" o.c. ea. way max.
94. Compacted fill
95. Grade beam (see struc.)
96. Stl. Bm. - painted (see struc.)
97. Mtl. gravel stop/flashing - galv. (see spec.)
98. Gravel ballast (see spec.)
99. 6" batt insulation on 4 mil. sht. vinyl
100. Synthetic finish on conc. wall
101. 1" perimeter insulation board
102. ¼" ext. gd. plywood sheathing

WALL SECTION 4 / A4.6
SCALE 1/2":1'-0"

WALL SECTION 3 / A4.6
SCALE 1/2":1'-0"

WALL SECTION 2 / A4.6
SCALE 1/2":1'-0"

WALL SECTION 1 / A4.6
SCALE 1/2":1'-0"

STATE OF NEW MEXICO
Ron L. Hutchinson
Jr. Fisher
Jon W. Burton
No. 835
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
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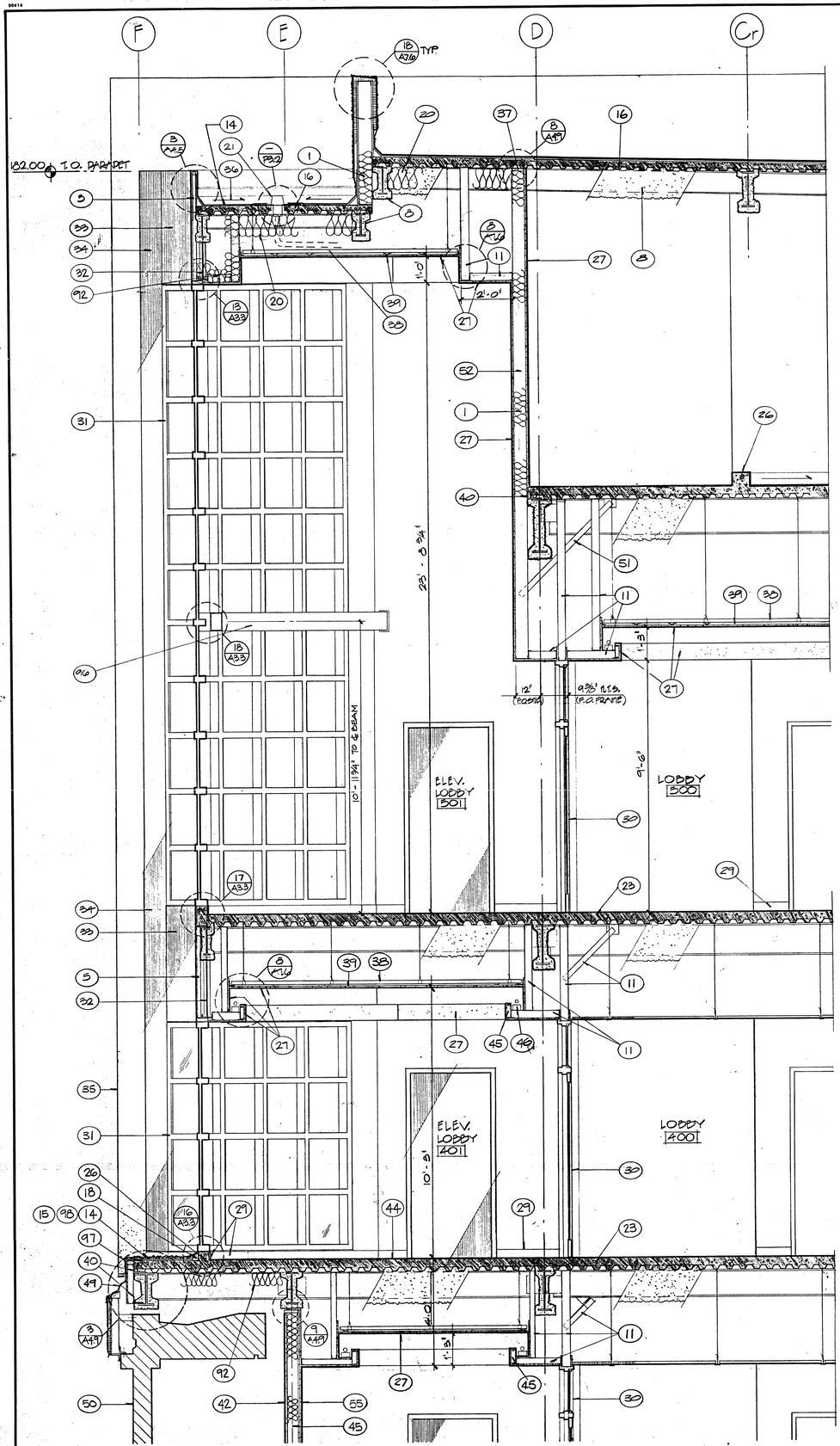
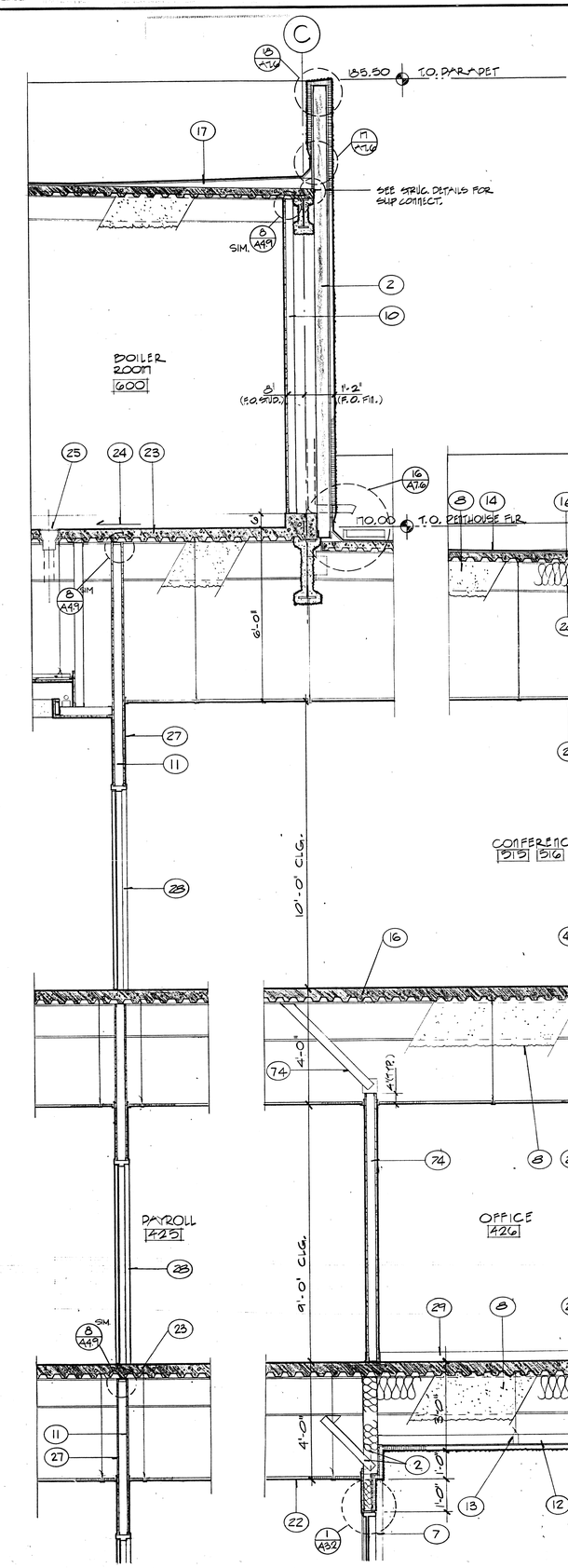
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4-14-86
Checked by:
Drawing Title: **Wall Section**

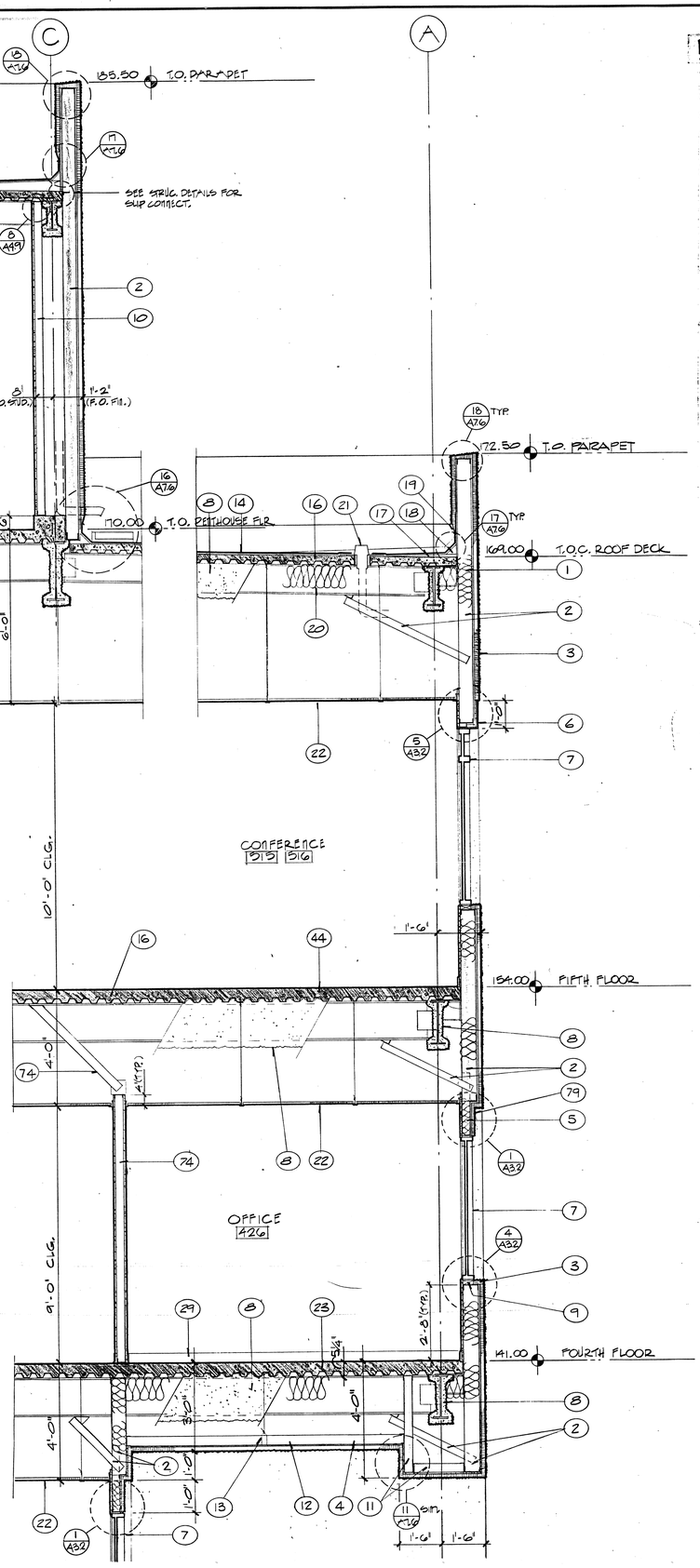
Drawing: A4.6
Sheet 23 of 111



WALL SECTION
SCALE 1/2":1'-0"
3 A4.7



WALL SECTION
SCALE 1/2":1'-0"
2 A4.7



WALL SECTION
SCALE 1/2":1'-0"
1 A4.7

KEYED NOTES:

1. Full batt insulation
2. 6" stl. Struc. Studs & wind bracing @ 24" o.c. (see struc.)
3. Synthetic fin. system on 1½" polystyrene insulation on ½" gyp. bd. sheathing.
4. DELETED
5. 2½" 16 ga. studs (see struc.)
6. Ceramic tile (see spec.)
7. Scheduled window
8. 2" Spray fireproofing where required (see spec.)
9. 1½" thk. wd. blocking
10. 4" x 16 ga. stl. studs @ 16" o.c. max.
11. 3 5/8" x 20 ga. stl. studs @24"O.C. max.
12. 4" studs x 20 ga. @ 16" O.C.
13. 12 ga. wire hanger @ mid-point.
14. Roofing (see spec.)
15. DELETED
16. Light weight conc. roof slab on mtl. decking (see spec.)
17. Rigid foam cricket (see roof plan for depth)
18. 4" rigid foam cant (see spec.)
19. 25 ga. galv. mtl. counter flashing
20. Susp. batt insulation w/16 ga. wire @ 16" o.c.
21. Roof drain/overflow drain (see plumbing)
22. 2 x 4 suspend. acoustic clg. (see spec.)
23. Light weight conc. on 2½" mtl. decking (see struc.)
24. Slope floor to drain
25. Floor drain (see plumbing)
26. Conc. curb. (see struc.)
27. 5/8" gyp. bd. type 'x'
28. Scheduled door
29. Scheduled base
30. Scheduled door
31. Curtain wall (see schedule)
32. Stl. girt.(see struc.)
33. Alum. Cladding (match window frames)
34. Alum. column cover (match window frames)
35. Face of exterior wall beyond
36. Slope light weight conc. to drain @ 1/8" per foot. min.
37. Provide deep leg track for slip connection
38. 1¼" C.R.C. channels @ 2'-0" o.c. - suspend w/no. 9 ga. wire @ 4'-0" o.c. max.
39. Hat channels @ 16" o.c. max.
40. Stl. angle or bent plate (see struc.)
41. 6" shaft wall studs @ 24" o.c.
42. 3/4" gyp. shaft liner panel
43. Ceramic tile (see spec.)
44. Scheduled flooring
45. Boxed 6" studs
46. Light fixture (see elect.)
47. Blkg. w/cant
48. DELETED
49. Neoprene expansion jt. cover (see spec.)
50. Exist structure
51. Lateral bracing as required (see struc.)
52. 6" x 16 ga. studs @ 24" o.c. - Provide horiz. bracing as reqd. (see struc.)
53. Expansion jt.
54. 6" 16 ga. studs @ 24" o.c. - Provide lateral bracing as reqd. (see struc.)
55. 2 layers 5/8" gyp. bd. Type 'x'
56. 2" deep stl. channel clip as reqd. (see specs.)
57. Fill void w/fire safe insulation (see spec.)
58. Remove exist. infill walls as reqd. (see floor plans)
59. finish face to match existing.
60. Contin. flexible fire barrier system (see spec.)
61. Vinyl expansion joint filler (see spec.)
62. Existing foundation
63. 5/8" exterior grade gyp. bd. w/synthetic finish (see spec.)
64. Conc. curb. - (see site details)
65. ½" expansion jt. filler
66. Conc. paving (see specs.)
67. Remove exist. mtl. stud & stucco fins. as required (see floor plans)
68. Grout (see spec.)
69. 2 layers 5/8" gyp. bd. type 'x' tie into 2 hr. wall @ Col. Line 'E'.
70. 3 5/8" x 20 ga. Stl. studs @ 24" o.c. max. - provide lateral bracing as reqd. (see struct.)
71. Contin. 2¼" x 14 ga. runner at ea. side of jt.
72. Backer rod & sealant (see spec.)
73. Vinyl expansion jt. filler (see spec.)
74. 3 5/8" x 25 ga. studs @ 24" o.c. - Provide lateral brcg. to deck as reqd.
75. Alum. wall expan. jt. cover w/2 hr. fire rating (see spec.)
76. Alum. flr. expan. jt. cover w/2 hr. fire rating (see spec.)
77. Limits of 2 hr. wall
78. Remove existing gravel stop, b.u.roofing, angle, rigid insul. and lightweight conc. in this area. Provide new wd. blkg., rigid insul., Light weight conc. and reuse stl. angle at new location as shown.
79. Synthetic finish system on 1" polystyrene insul. (see spec.)
80. Control joint
81. Contin. light gage mtl. Z - match gage thk. of studs.
82. See struc. for details
83. Recessed incandescent light fixture at entry doors (see elect.)
84. Exterior conc. slabs. on compacted fill (see struc.)
85. Exterior conc. stairs on compacted fill
86. Alum. handrails w/integral lighting (see elec.)
87. Conc. slab on compacted fill (see struc.)
88. Secondary struc. member w/o fireproofing (see spec.)
89. Existing retaining wall to remain. DO NOT DAMAGE WATERPROOFING
90. Contin. 6" x 4" x 5/16" angle @ each side of expansion jt., Typ. (see struc.)
91. reveal
92. 6" batt insulation (see spec.)
93. 2½" x 14 ga. mtl. stud wind-strut @ 8'-0" o.c. ea. way max.
94. Compacted fill
95. Grade beam (see struc.)
96. Stl. Bm. - painted (see struc.)
97. Mtl. gravel stop/flashing - galv. (see spec.)
98. Gravel ballast (see spec.)
99. 6" batt insulation on 4 mil. sht. vinyl
100. Synthetic finish on conc. wall
101. 1" perimeter insulation board
102. ¾" ext. gd. plywood sheathing

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 857
James G. Burton
No. 5079
Hugh M. Burton
No. 855
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
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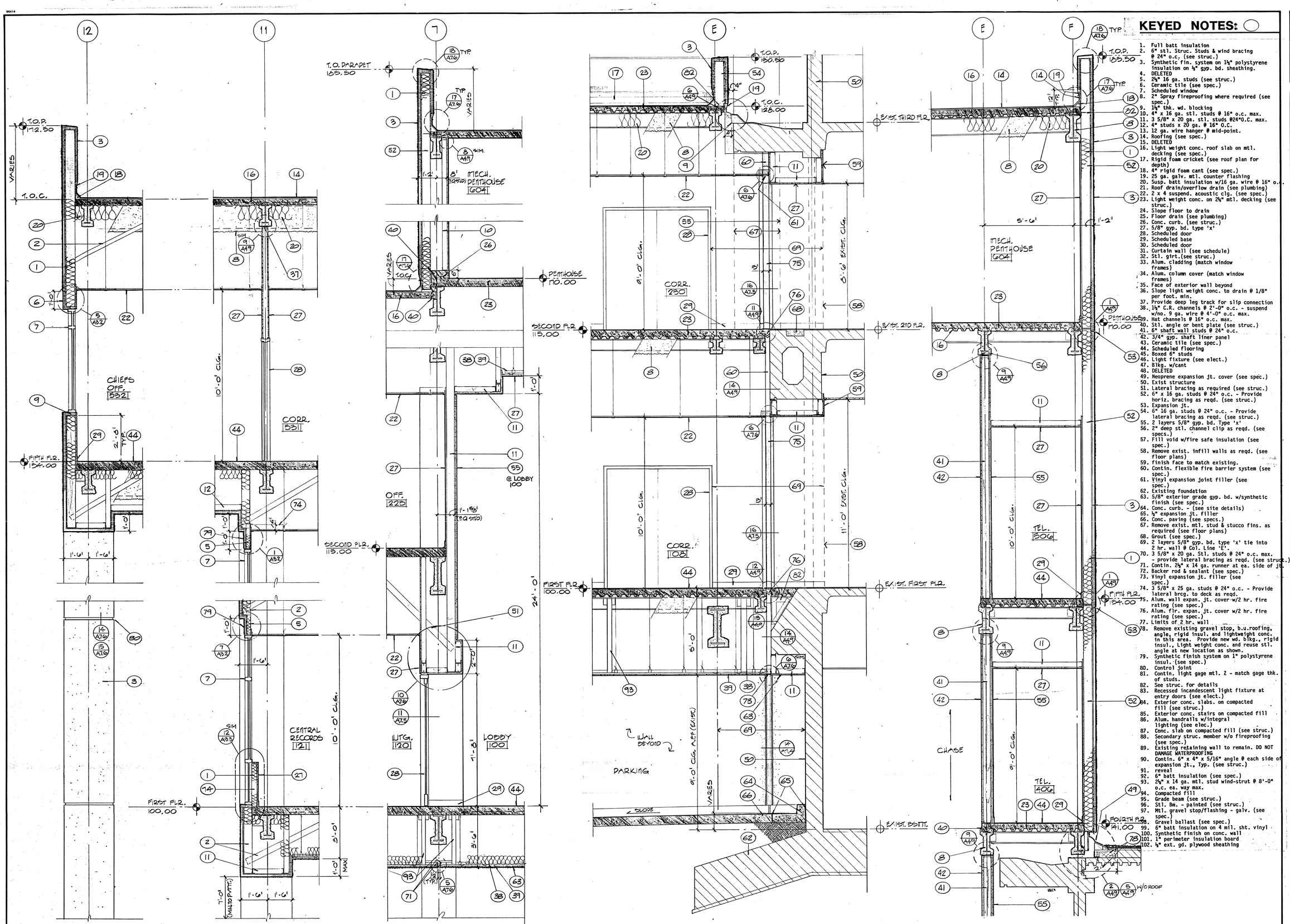
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
8506
Date
4-14-80
Checked by
Drawing Title
Wall Section

Drawing
A4.7
Sheet
44
of
111



KEYED NOTES:

1. Full batt insulation
2. 6" stl. Struc. Studs & wind bracing @ 24" o.c. (see struc.)
3. Synthetic fin. system on 1½" polystyrene insulation on ½" gyp. bd. sheathing.
4. DELETED
5. 2½" 16 ga. studs (see struc.)
6. Ceramic tile (see spec.)
7. Scheduled window
8. 2" Spray fireproofing where required (see spec.)
9. 1½" thk. wd. blocking
10. 4" x 16 ga. stl. studs @ 16" o.c. max.
11. 3 5/8" x 20 ga. stl. studs @24"O.C. max.
12. 4" studs x 20 ga. @ 16" O.C.
13. 12 ga. wire hanger @ mid-point.
14. Roofing (see spec.)
15. DELETED
16. Light weight conc. roof slab on mtl. decking (see spec.)
17. Rigid foam cricket (see roof plan for depth)
18. 4" rigid foam cant (see spec.)
19. 25 ga. galv. mtl. counter flashing
20. Susp. batt insulation w/16 ga. wire @ 16" o.c.
21. Roof drain/overflow drain (see plumbing)
22. 2' x 4' suspend. acoustic clg. (see spec.)
23. Light weight conc. on 2½" mtl. decking (see struc.)
24. Slope floor to drain
25. Floor drain (see plumbing)
26. Conc. curb. (see struc.)
27. 5/8" gyp. bd. type 'x'
28. Scheduled door
29. Scheduled base
30. Scheduled door
31. Curtain wall (see schedule)
32. Stl. girt.(see struc.)
33. Alum. cladding (match window frames)
34. Alum. column cover (match window frames)
35. Face of exterior wall beyond
36. Slope light weight conc. to drain @ 1/8" per foot. min.
37. Provide deep leg track for slip connection
38. 1½" C.R. channels @ 2'-0" o.c. - suspend w/no. 9 ga. wire @ 4'-0" o.c. max.
39. Hat channels @ 16" o.c. max.
40. Stl. angle or bent plate (see struc.)
41. 6" shaft wall studs @ 24" o.c.
42. 3/4" gyp. shaft liner panel
43. Ceramic tile (see spec.)
44. Scheduled flooring
45. Boxed 6" studs
46. Light fixture (see elect.)
47. Blkg. w/cant
48. DELETED
49. Neoprene expansion jt. cover (see spec.)
50. Exist structure
51. Lateral bracing as required (see struc.)
52. 6" x 16 ga. studs @ 24" o.c. - Provide horiz. bracing as reqd. (see struc.)
53. Expansion jt.
54. 6" 16 ga. studs @ 24" o.c. - Provide lateral bracing as reqd. (see struc.)
55. 2 layers 5/8" gyp. bd. Type 'x'
56. 2" deep stl. channel clip as reqd. (see specs.)
57. Fill void w/fire safe insulation (see spec.)
58. Remove exist. infill walls as reqd. (see floor plans)
59. finish face to match existing.
60. Contin. flexible fire barrier system (see spec.)
61. Vinyl expansion joint filler (see spec.)
62. Existing foundation
63. 5/8" exterior grade gyp. bd. w/synthetic finish (see spec.)
64. Conc. curb. - (see site details)
65. ½" expansion jt. filler
66. Conc. paving (see specs.)
67. Remove exist. mtl. stud & stucco fins. as required (see floor plans)
68. Grout (see spec.)
69. 2 layers 5/8" gyp. bd. type 'x' tie into 2 hr. wall @ Col. Line 'E'.
70. 3 5/8" x 20 ga. Stl. studs @ 24" o.c. max. - provide lateral bracing as reqd. (see struc.)
71. Contin. 2½" x 14 ga. runner at ea. side of jt.
72. Backer rod & sealant (see spec.)
73. Vinyl expansion jt. filler (see spec.)
74. 3 5/8" x 25 ga. studs @ 24" o.c. - Provide lateral brcg. to deck as reqd.
75. Alum. wall expan. jt. cover w/2 hr. fire rating (see spec.)
76. Alum. flr. expan. jt. cover w/2 hr. fire rating (see spec.)
77. Limits of 2 hr. wall
78. Remove existing gravel stop, b.u.roofing, angle, rigid insul. and lightweight conc. in this area. Provide new wd. blkg., rigid insul., Light weight conc. and reuse stl. angle at new location as shown.
79. Synthetic finish system on 1" polystyrene insul. (see spec.)
80. Control joint
81. Contin. light gage mtl. Z - match gage thk. of studs.
82. See struc. for details
83. Recessed incandescent light fixture at entry doors (see elect.)
84. Exterior conc. slabs. on compacted fill (see struc.)
85. Exterior conc. stairs on compacted fill
86. Alum. handrails w/integral lighting (see elec.)
87. Conc. slab on compacted fill (see struc.)
88. Secondary struc. member w/o fireproofing (see spec.)
89. Existing retaining wall to remain. DO NOT DAMAGE WATERPROOFING
90. Contin. 6" x 4" x 5/16" angle @ each side of expansion jt., Typ. (see struc.)
91. reveal
92. 6" batt insulation (see spec.)
93. 2½" x 14 ga. mtl. stud wind-strut @ 8'-0" o.c. ea. way max.
94. Compacted fill
95. Grade beam (see struc.)
96. Stl. Bm. - painted (see struc.)
97. Mtl. gravel stop/flashing - galv. (see spec.)
98. Gravel ballast (see spec.)
99. 6" batt insulation on 4 mil. sht. vinyl
100. Synthetic finish on conc. wall
101. 1" perimeter insulation board
102. ½" ext. gd. plywood sheathing

WALL SECTION 5 A4.8 — 1/2" = 1'-0"

WALL SECTION 4 A4.8 — 1/2" = 1'-0"

WALL SECTION 3 A4.8 — 1/2" = 1'-0"

WALL SECTION 2 A4.8 — 1/2" = 1'-0"

WALL SECTION 1 A4.8 — 1/2" = 1'-0"

STATE OF NEW MEXICO
Ron J. Hutchinson
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Jon R. Burton
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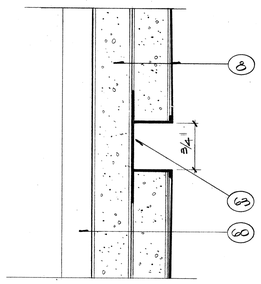
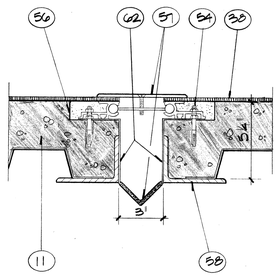
Project Number: 8506
Date: 4-14-86
Checked by:
Drawing Title: Wall Section

Drawing A4.8
Sheet 45 of 111

96414



16 / A4.9 DETAIL FULLSIZE



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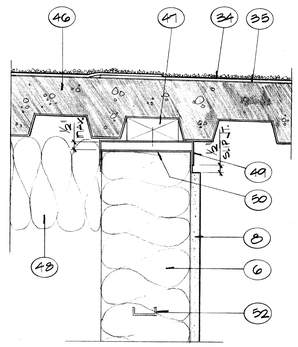

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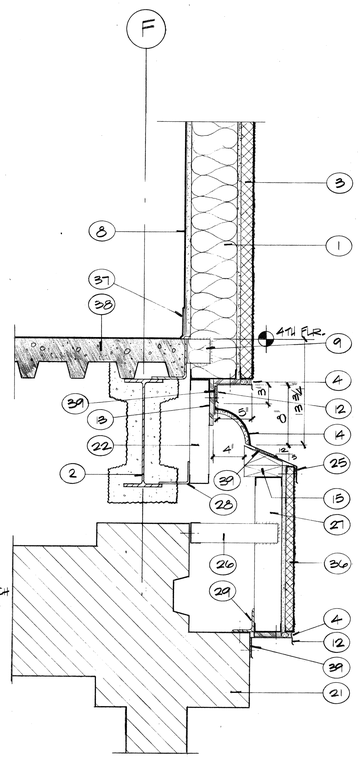

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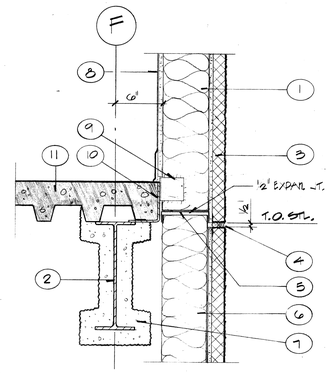

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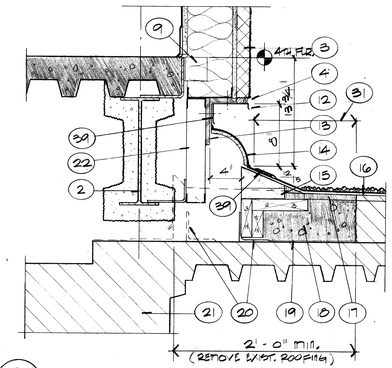

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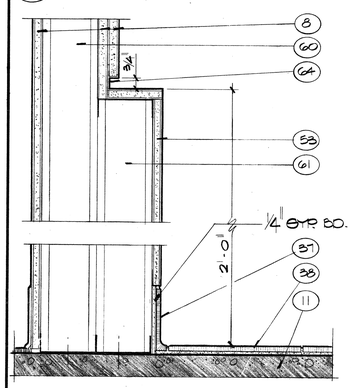
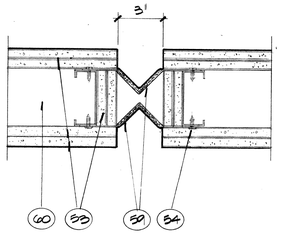
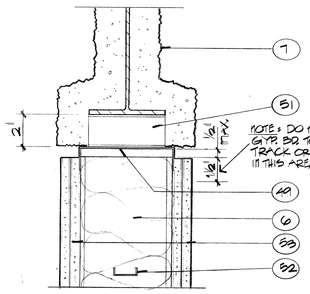


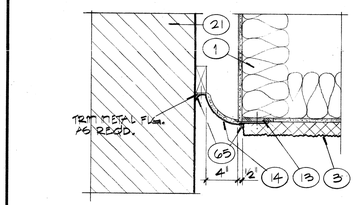
17 / A4.9 DETAIL 3"



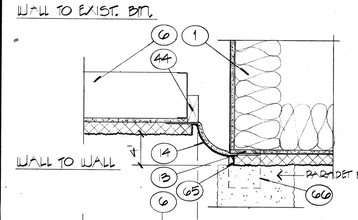
13 / A4.9 DETAIL 3"



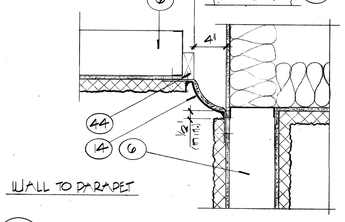
9 / A4.9 DETAIL 3"



WALL TO EXIST. BTM.

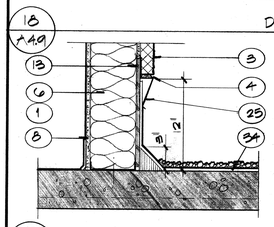


WALL TO WALL

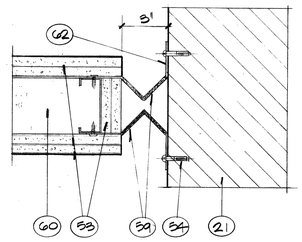


WALL TO PARAPET

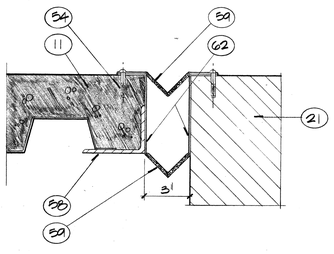
18 / A4.9 DETAIL 1½"



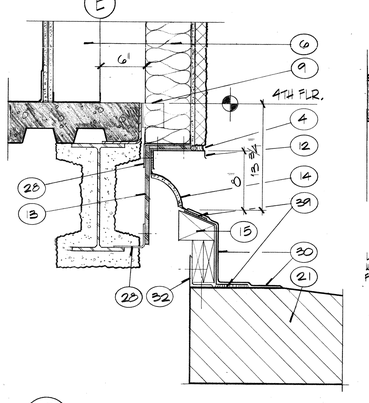
19 / A4.9 DETAIL 1½"



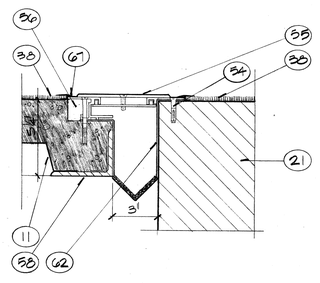
14 / A4.9 DETAIL 3"



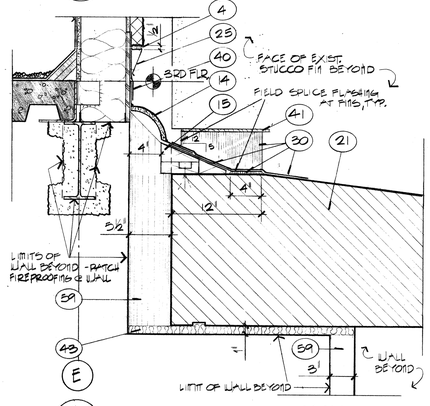
15 / A4.9 DETAIL 3"



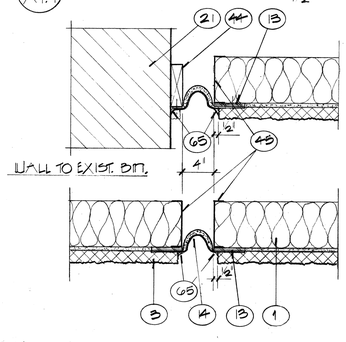
10 / A4.9 DETAIL 1½"



11 / A4.9 DETAIL 3"



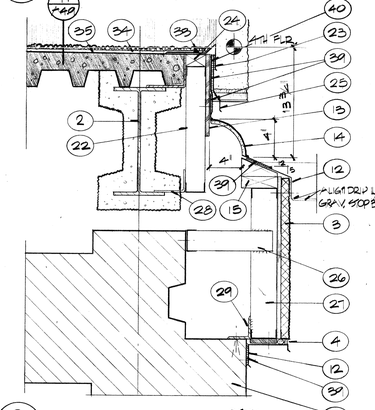
6 / A4.9 DETAIL 1½"



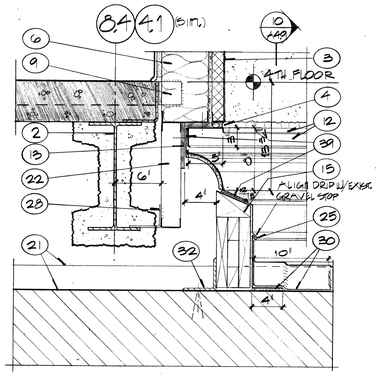
WALL TO EXIST. BTM.

WALL TO WALL

7 / A4.9 DETAIL 1½"



3 / A4.9 DETAIL 1½"



4 / A4.9 DETAIL 1½"

KEYED NOTES:

1. Full batt insulation
2. Structural member (see struc. dwgs.)
3. Synthetic stucco fin. system on 1½" polystyrene insul. on ½" gyp. sheathing (see spec.)
4. Continuous sealant w/backer rod
5. Deep leg track - attach to bottom track of studs above (see struc.)
6. 6" 16 ga. mtl. studs @ 24" o.c. - provide horz. bridging & diagonal bracing as req'd. (see struc. for locations)
7. 2" Spray-on fire proofing (see specs.)
8. 5/8" gyp. bd. "x"
9. Provide mtl. clip angle
10. Bent plate (see struc.)
11. Lightweight conc. on mtl. deck (see struc.)
12. 24 ga. galv. mtl. flashing with drips
13. ½" exterior grade fire treated plywood sheathing (as shown)
14. Elastomeric expansion joint w/26 gauge x 4" wide galv. mtl. flanges - Manville style EJ Expandoflash (or equal)
    a. Provide prefabricated inside corner splices - Manville PF-15 or equal (4 req'd.)
    b. Provide prefavricated outside corner splices - Manville PF-14 or equal (4 req'd.)
    c. Provide field fabricated splices adjoining sections and fittings (as req'd.) Provide Field Fabricated intersection similar to Manville FF-12 (2 req'd.)
15. Fire treated wd. blkg. (as req'd.)
16. Install new roofing over existing roofing - seal to 4" ea. side lap seam with fibrated plastic roofing mastic (per manuf. recommendations)
17. 3/4" r-rigid insul. board as req'd.
18. Insulating conc. as req'd.
19. Replace 4 mil. polyethylene bond breaker sheet and secure w/roofing mastic as req'd. - lap sheets 12" and tape joints.
20. Reuse existing cont. stl. angle - anchor 8'-0" o.c. as req'd.
21. Exist construction
22. 2½" x 16 ga. stl. studs @ 24" o.c. max. w/top & bottom track
23. 25 ga. galv. mtl. gravel stop (as shown)
24. Fire treated 2 x wd. blkg. as req'd.
25. 25 ga. counter flashing w/drip
26. 2½" x 16 ga. mtl. stud bracing @ 4'-0" o.c. max.
27. 3 5/8" x 16 ga. mtl. studs @ 2'-0" o.c. max.
28. 3" x 4" x 14 ga. clip angle x 2" long @ 4'-0" o.c. max.
29. 3" x 3" x 3/16" angle x 3" long @ 4'-0" o.c. max.
30. 24 ga. galv. flashing set in fibrated roof mastic (see spec.) - prime flashing & exist. beam w/mastic & cover with 15# felt - cover w/troweled on mastic
31. Mop expansion jt. flange & roof membrane (in this area) and cover w/15# felt - cover w/troweled on mastic.
32. 3" x 4" x ¼" Thk. angle x 6" long @ 24" o.c.
33. 24 ga. gravel stop set in fibrated plastic roofing mastic
34. Roofing membrane - (see spec.)
35. Base sheet - per manuf. (see spec.)
36. Synthetic finish system on 1" polystyrene insul. on ½" gyp. sheathing.
37. Scheduled base
38. Scheduled floor finish
39. Provide roofing mastic between mtl. flashings
40. 15# felt flashing covered w/troweled on roofing mastic over expansion jt. flange and sheathing primed with roofing mastic.
41. Sawcut ¼" x ½" deep reglet in existing. cement stucco - run 24 ga. flashing into reglet and close with sealant (see spec.)
42. Deleted
43. Fill void w/fire-safe insulation (see spec.)
44. Contin. 2 x 4 wd nailer
45. 14 ga. mtl. track
46. Insulating conc. on mtl. deck (see struc.)
47. Fire treated blkg. as req'd.
48. Susp. batt insul. w/16 ga. wire @ 16" o.c.
49. 14 ga. deep leg track
50. Std. track
51. 2" x 14 ga. CRC
52. Horizontal bridging as req'd. (see struc.)
53. 2 layers 5/8" gyp. bd. 'x'
54. Expansion bolts per manuf.
55. Rated alumin. expan. jt. cover w/abrasive fin. - Metalines, Inc. type 2H-C-95 w/Metaflex fire barrier system - or equal.
56. Block out slab and fill with grout (per manuf.)
57. 2 hour rated alumin. expan. jt. cover w/abrasive fin. - Metalines, Inc. type 2H-RCA-50 w/Metaflex fire barrier system - or equal
58. Contin. 4" x 3" x ¼" thk. angle
59. Metalines Metaflex flexible fire binder system w/2 hour rating - or equal.
60. 3 5/8" x 20 ga. mtl. studs @ 24" o.c. max.
61. 3 5/8" x 25 ga. mtl. studs @ 24" o.c. max.
62. 20 ga. galv. mtl. flanges - Typical per manuf.
63. Alum. drywall channel screed - Fry Reglet type DCS-625-75 or equal.
64. Alumin. drywall molding-Fry Reglet type TDM-625-75 - or equal
65. Cont. sealant bead (see spec.)
66. Field fabricated expan. jt. flashing splice @ top of parapet - per manuf. (see spec.)
67. Vinyl carpet Butt-edge molding - Johnsonite EG-XX-B silver grey - or equal (at each side of expansion joint 4 places @ 2nd floor).

STATE OF NEW MEXICO
Ron L. Hutchinson No. 857
Jacker W. Brown No. 7099
A. Hank Burton No. 855
REGISTERED ARCHITECTS

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Albuquerque, New Mexico 87102
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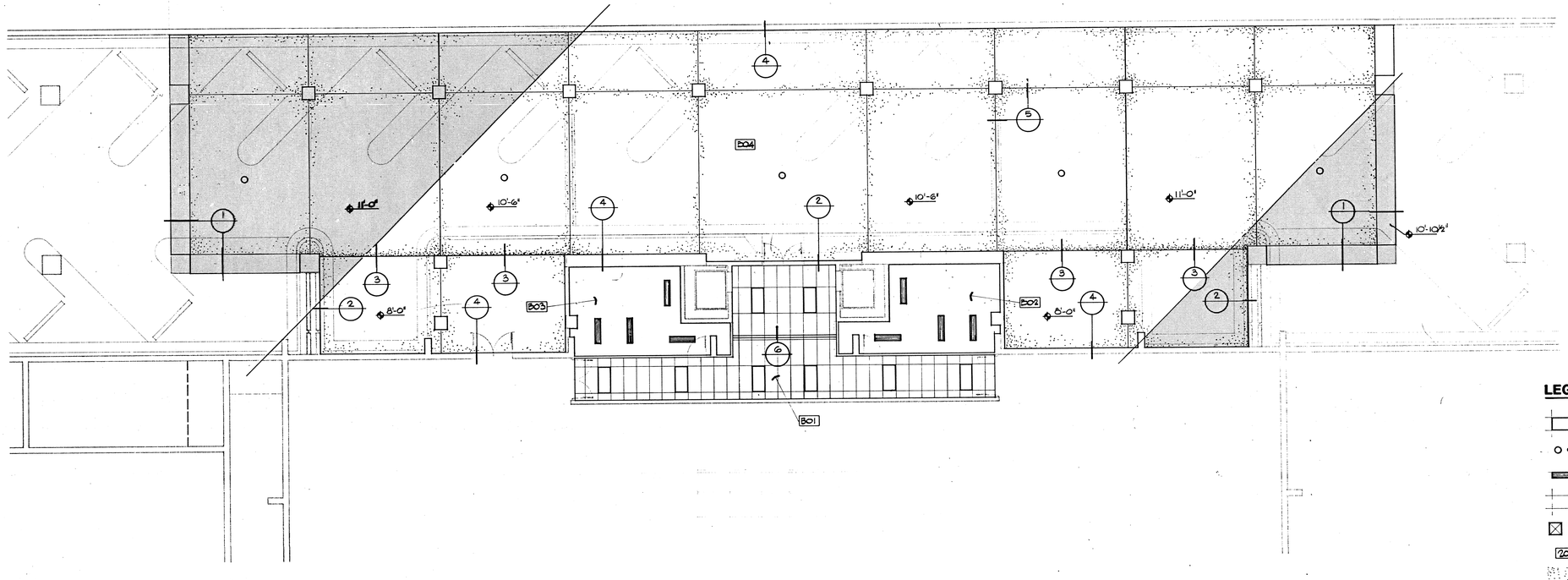
Project Number: 8506
Date: 4·14·86
Checked by:
Drawing Title: Details

Drawing: A4.9
Sheet: 4.6 of 111



LEGEND

- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED FIXTURE
- SUSPENDED LAY-IN CEILING
- MECHANICAL GRILLE
- 208 ROOM NUMBER
- GYPBOARD CEILING
- 8'-0" ELEVATION MARKER (A.F.F.) NOMINAL
- SYNTHETIC STUCCO SYSTEM ON SUSPENDED GYP. BD.

N

BASEMENT REFLECTED CEILING PLAN

1/8"

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Project Number
8506
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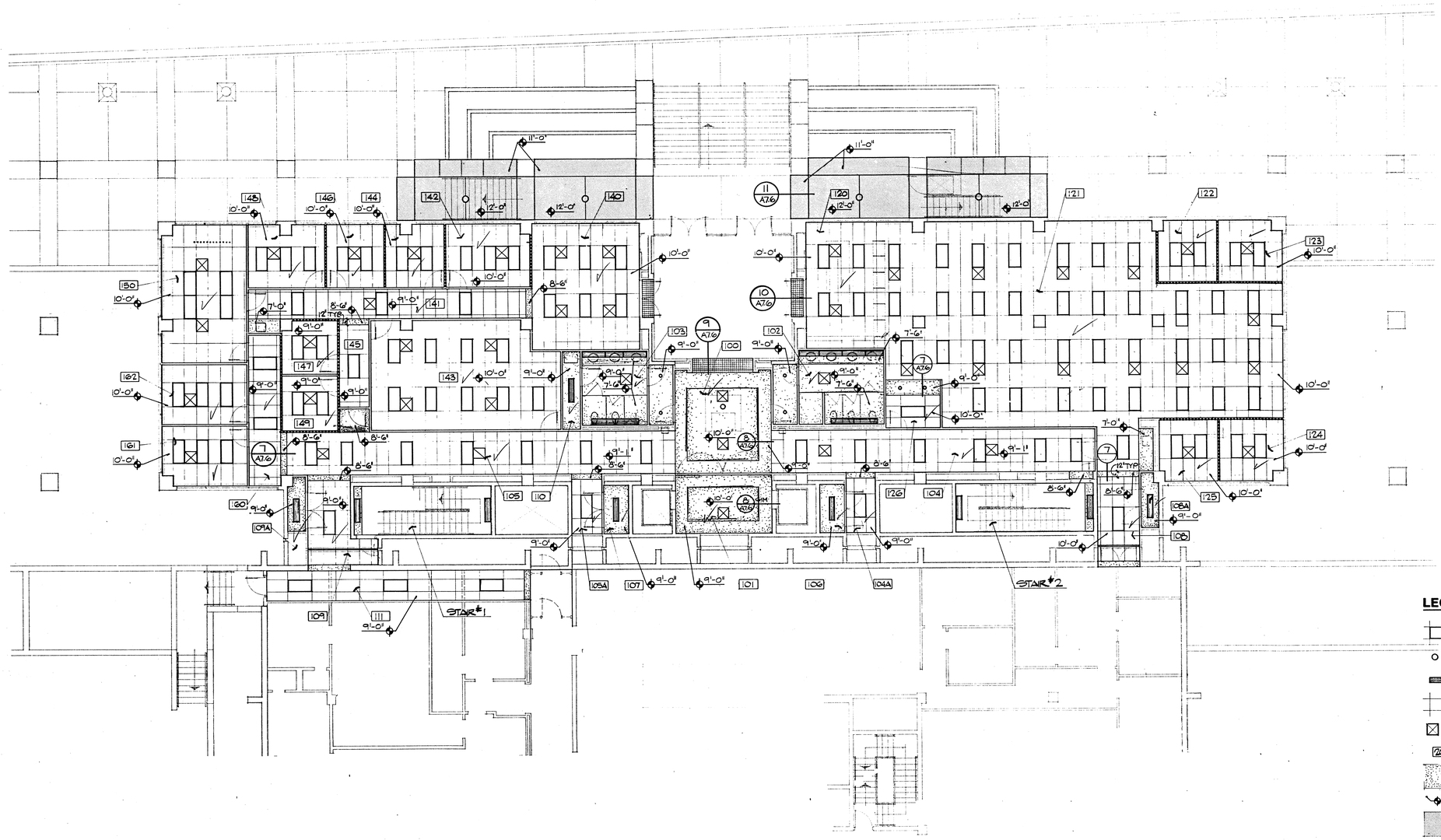
JLJ
Drawing Title
Basement Reflected Ceiling Plan

Drawing
A5.1
Sheet



FIRST FLOOR REFLECTED CEILING PLAN

1/8"

STATE OF NEW MEXICO
Registered
No. 1857
John L. Burton
No. 855
REGISTERED ARCHITECTS

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8506
Date
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JLJ
Drawing Title
First Floor Reflected Ceiling Plan

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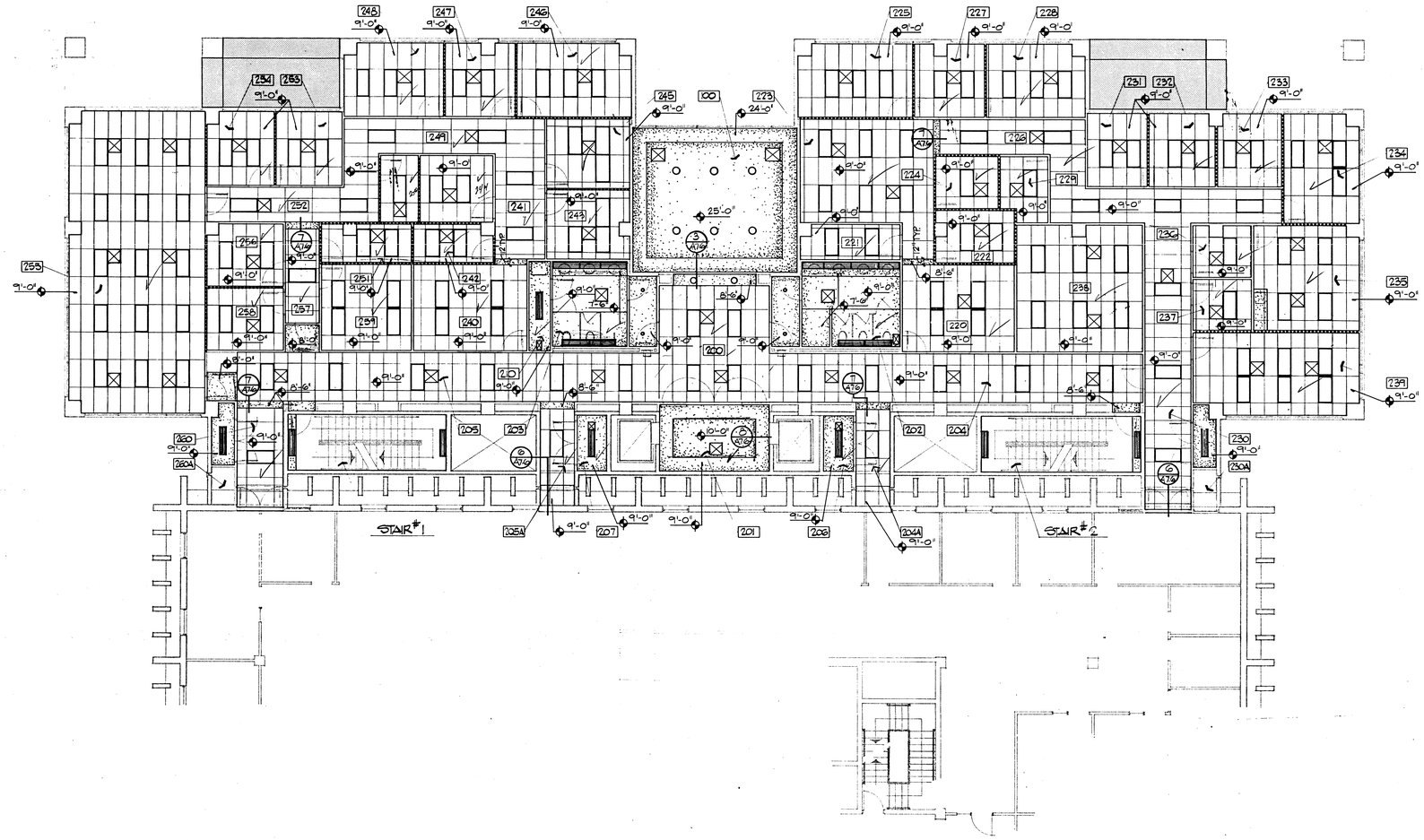
A5.2
Sheet
11



SECOND FLOOR REFLECTED CEILING PLAN

1/8"

LEGEND

- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED FIXTURE
- SUSPENDED LAY-IN CEILING
- MECHANICAL GRILLE
- 205 ROOM NUMBER
- GYPBOARD CEILING
- 8'-0" ELEVATION MARKER (A.F.F.) NOMINAL
- SYNTHETIC STUCCO SYSTEM
- SOUND INSULATION

STATE OF NEW MEXICO
Ron L. Hutchinson
14,017
James L. Burton
Mr. 805
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER

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Project Number
8506
Date
4/14/86
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JLJ
Drawing Title
Second Floor Reflected Ceiling Plan

Drawing
A5.3
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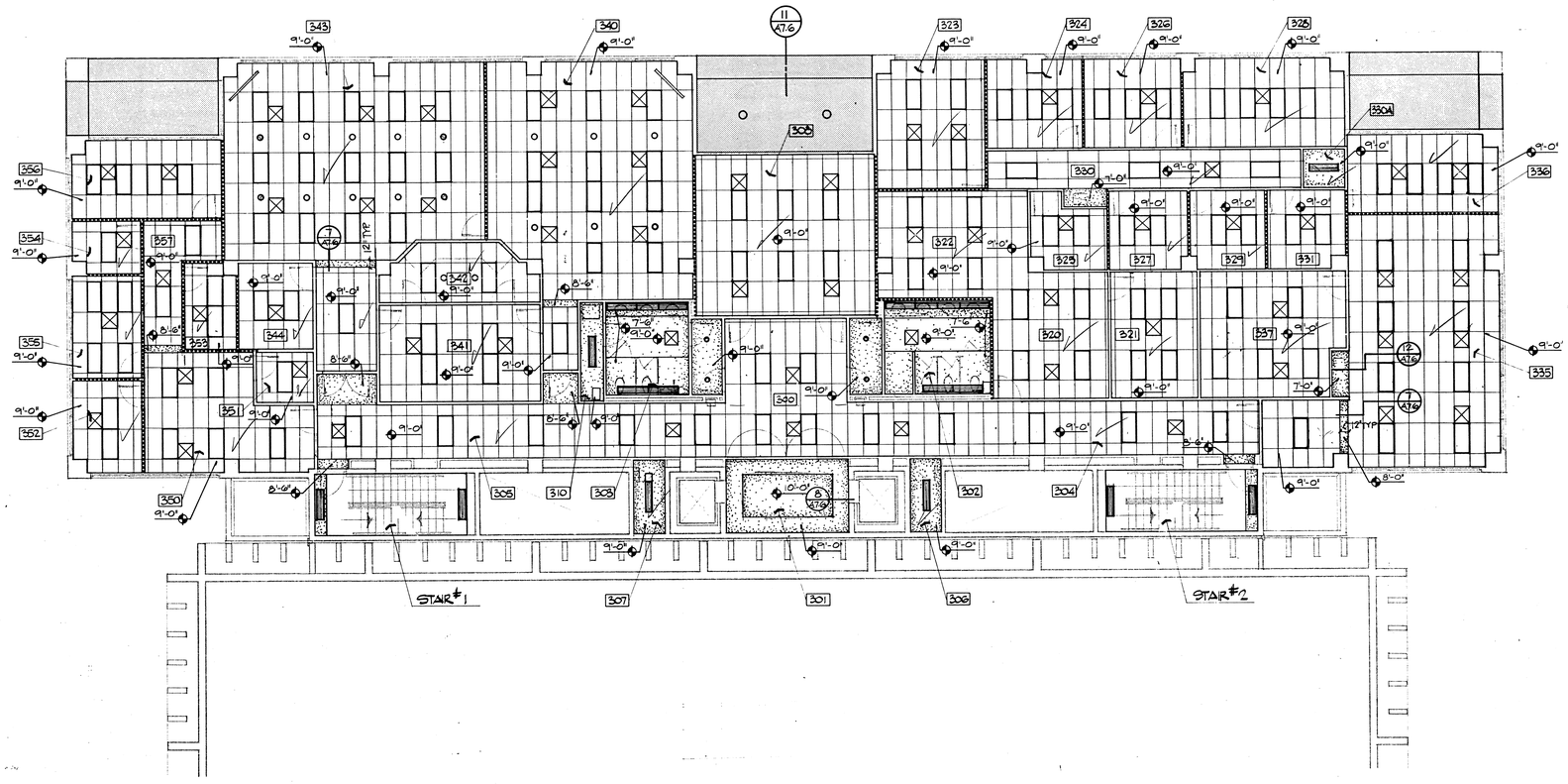

THIRD FLOOR REFLECTED CEILING PLAN

1/8"

LEGEND

- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED FIXTURE
- SUSPENDED LAY-IN CEILING
- MECHANICAL GRILLE
- 209 ROOM NUMBER
- GYPBOARD CEILING
- 8'-0" ELEVATION MARKER (A.F.F.) NOMINAL
- SYNTHETIC STUCCO SYSTEM
- SOUND INSULATION

STATE OF NEW MEXICO
Ben L. Hinkle
No. 1867
Registered Architect
Allen L. Burton
No. 855
REGISTERED ARCHITECTS

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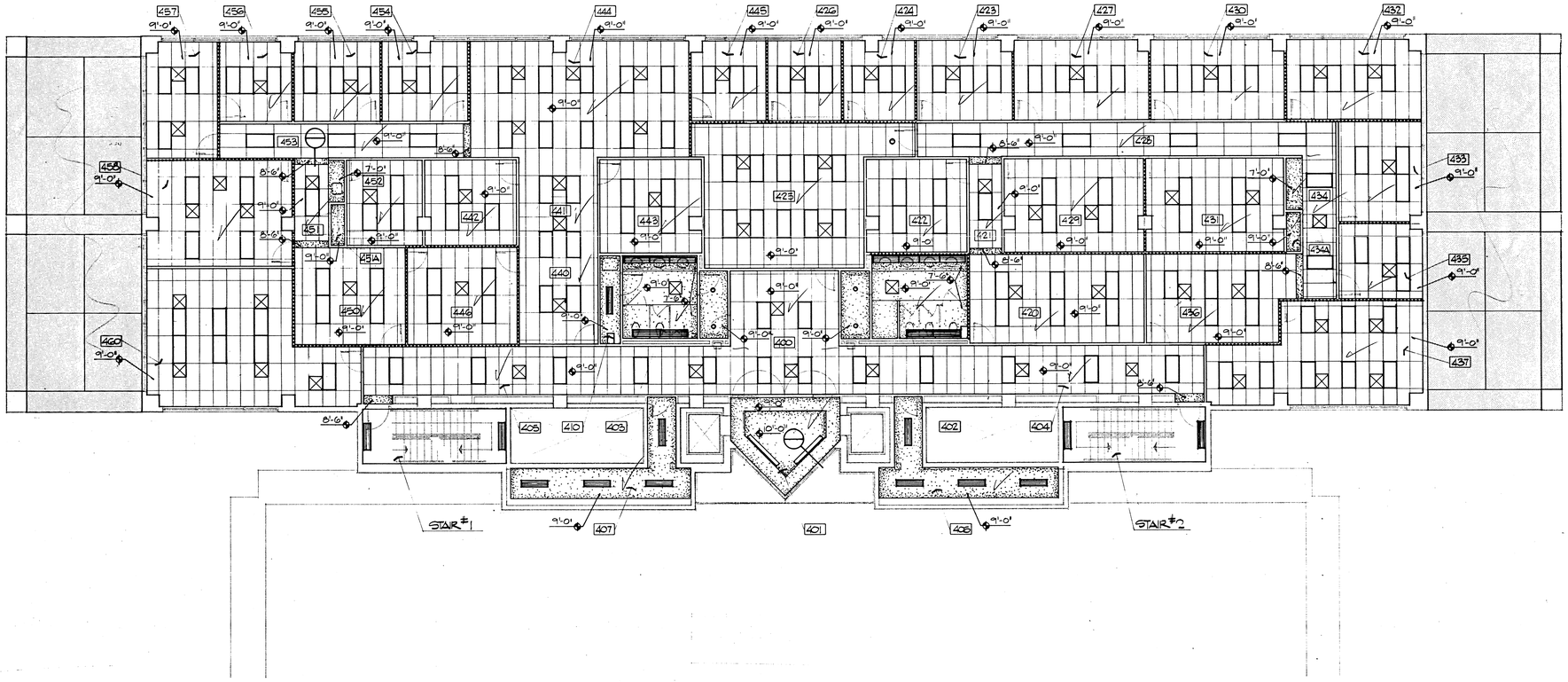
Drawing Title
Third Floor Reflected Ceiling Plan

Drawing
A5.4



FOURTH FLOOR REFLECTED CEILING PLAN

1/8"

LEGEND

- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED FIXTURE
- SUSPENDED LAY-IN CEILING
- MECHANICAL GRILLE
- 205 ROOM NUMBER
- GYPBOARD CEILING
- 8'-0" ELEVATION MARKER (A.F.F.) NOMINAL
- SYNTHETIC STUCCO SYSTEM
- SOUND INSULATION

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 857
James L. Burton
No. 855
REGISTERED ARCHITECTS

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Date
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Drawing Title
Fourth Floor Reflected Ceiling Plan

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of
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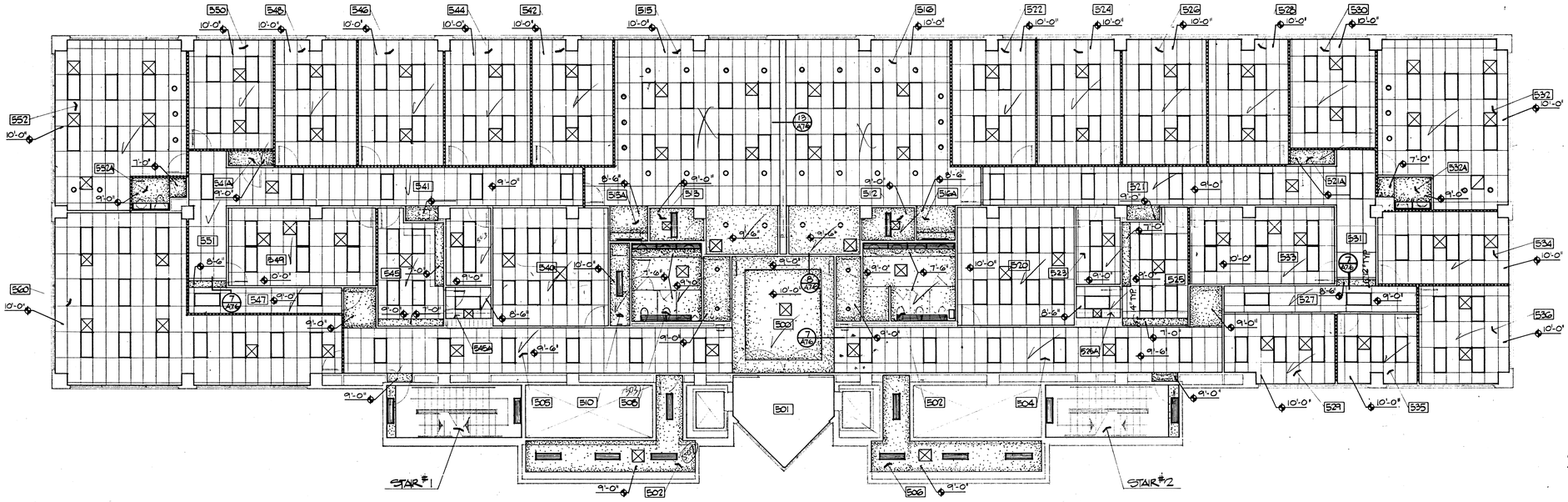

FIFTH FLOOR REFLECTED CEILING PLAN

1/8"

LEGEND

- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED FIXTURE
- SUSPENDED LAY-IN CEILING
- MECHANICAL GRILLE
- 208 ROOM NUMBER
- GYP BOARD CEILING
- ELEVATION MARKER (A.F.F.) NOMINAL
- SYNTHETIC STUCCO SYSTEM
- SOUND INSULATION

STATE OF NEW MEXICO
Registered Architects

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8506
Date
4/14/86
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Drawing Title
Fifth Floor Reflected Ceiling Plan

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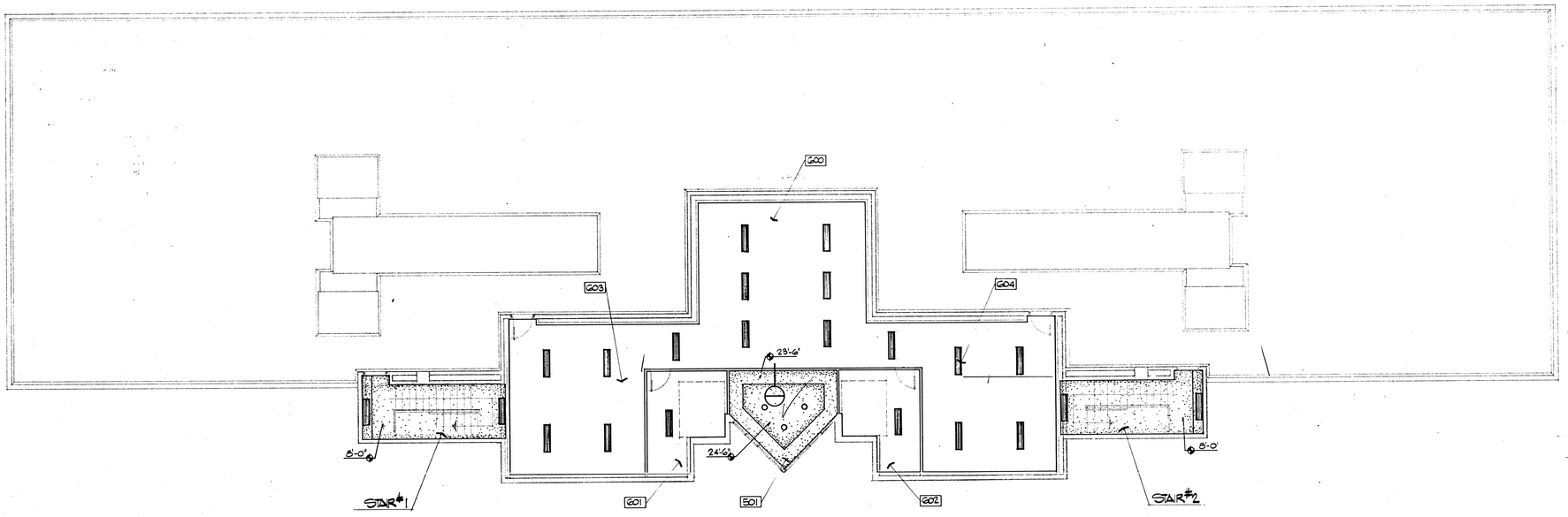

PENTHOUSE REFLECTED CEILING PLAN

1/8"

LEGEND

- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED FIXTURE
- SUSPENDED LAY-IN CEILING
- MECHANICAL GRILLE
- 208 ROOM NUMBER
- GYP BOARD CEILING
- 8'-0" ELEVATION MARKER (A.F.F.) NOMINAL
- NO CEILING

STATE OF NEW MEXICO
Registered Architects

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Drawing Title
Penthouse Reflected Ceiling Plan

Drawing
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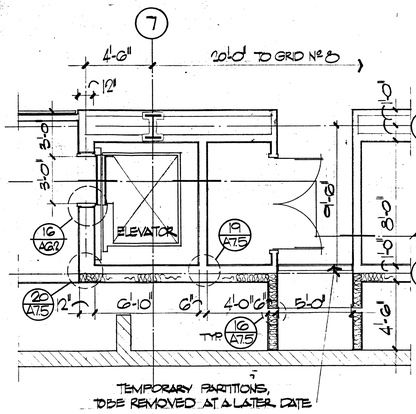
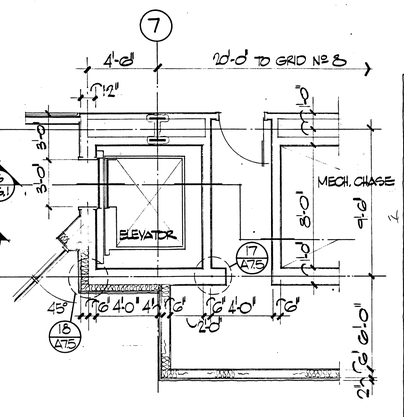
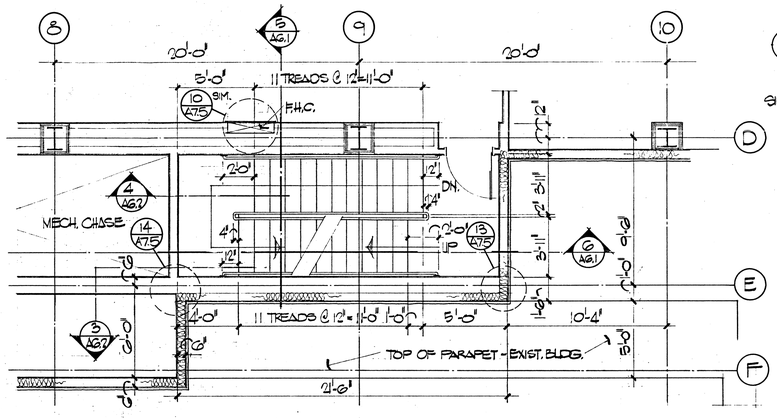
Sheet



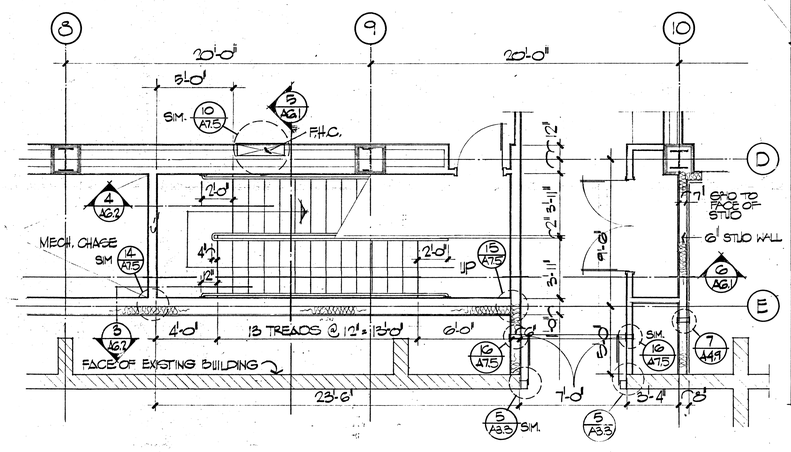
1 / AG.1 ENLARGED PLAN @ ELEVATOR (FIRST FLOOR) 1/4"



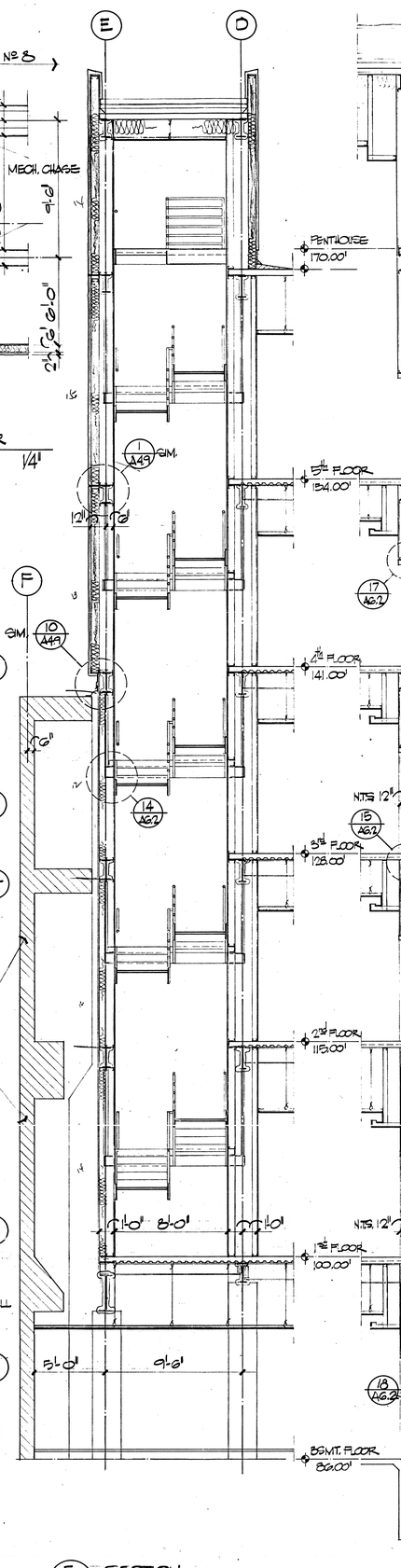
2 / AG.1 ENLARGED PLAN @ ELEVATOR (FOURTH FLOOR) 1/4"



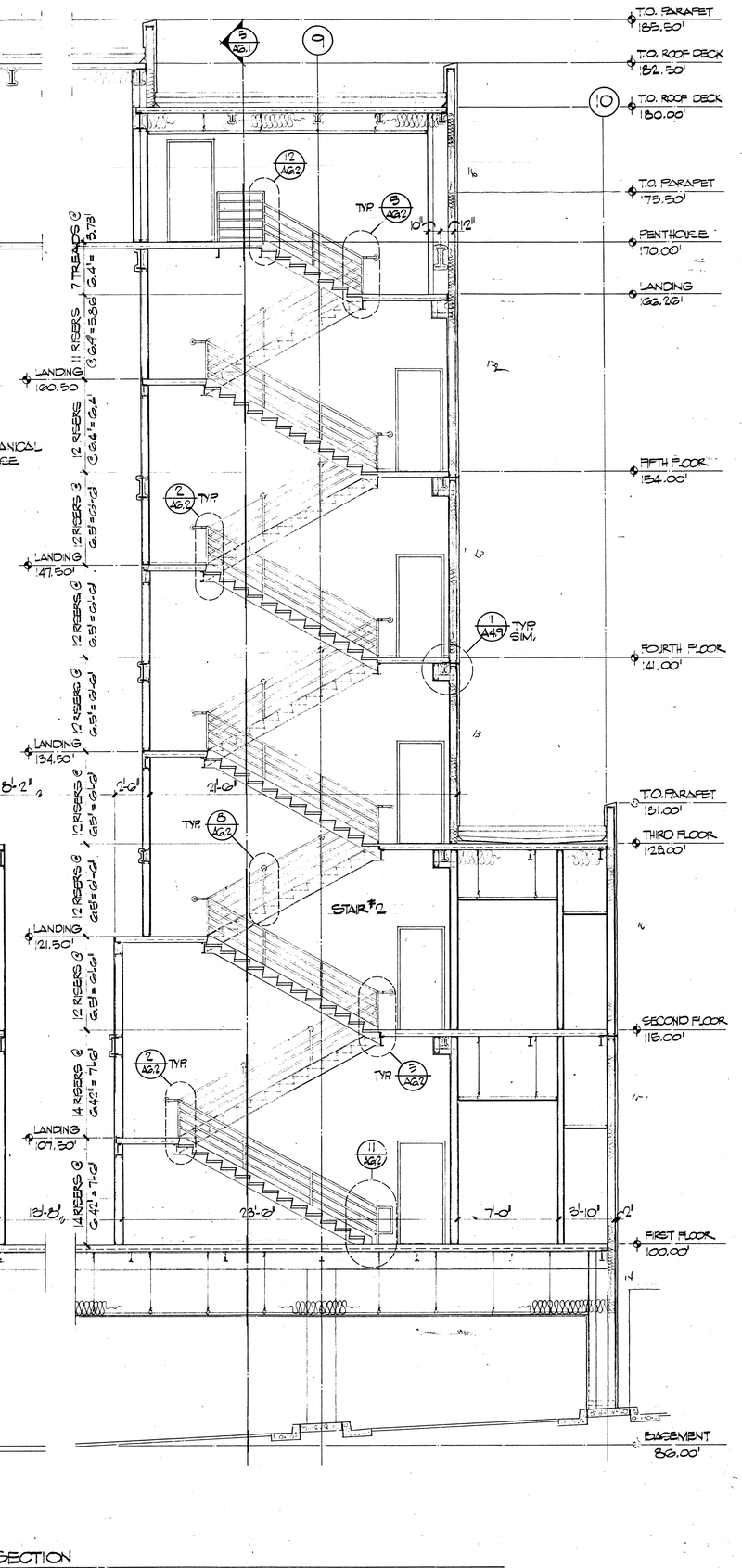
3 / AG.1 ENLARGED PLAN @ STAIR #2 (FOURTH FLOOR) 1/4"



4 / AG.1 ENLARGED PLAN @ STAIR #2 (FIRST FLOOR) 1/4"



5 / AG.1 SECTION 1/4"



6 / AG.1 SECTION 1/4"

STATE OF NEW MEXICO
Bob L. Hutchinson
No. 8263
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LAW ENFORCEMENT CENTER

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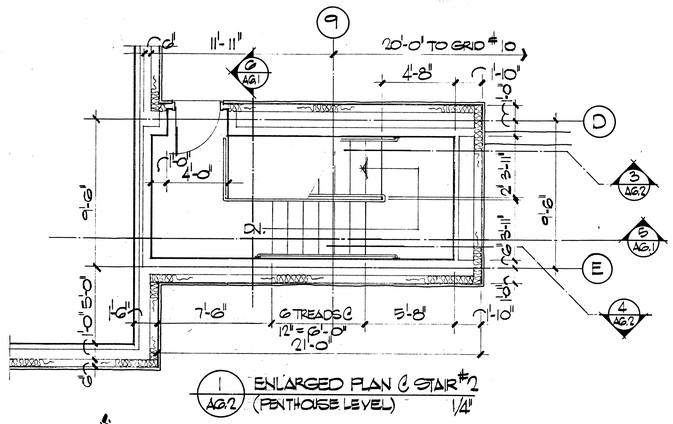
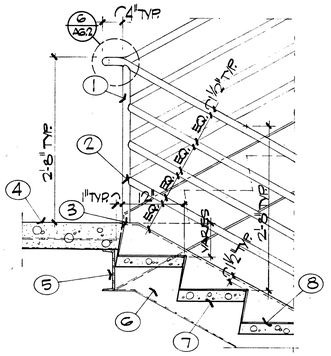
Project Number: 8506
Date: 4-14-86
Checked by:
Drawing Title: Stair Section 1, Stair Plan

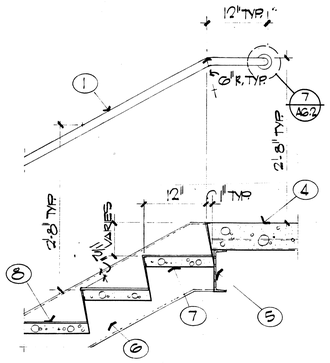
Drawing A6.1
Sheet 54 of 111



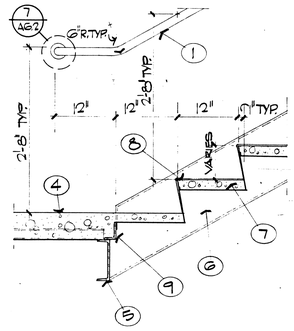
1 / AG.2 ENLARGED PLAN @ STAIR #2 (PENTHOUSE LEVEL) 1/4"



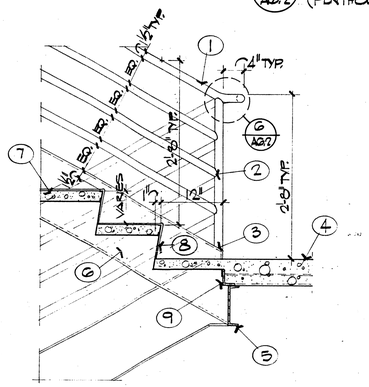
2 / AG.2 DETAIL 1"



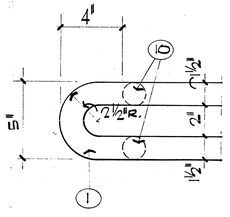
3 / AG.2 DETAIL 1"



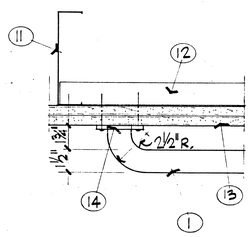
4 / AG.2 DETAIL 1"



5 / AG.2 DETAIL 1"



6 / AG.2 DETAIL 3"



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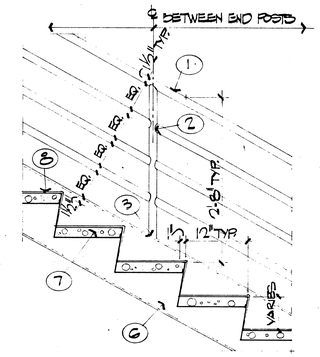
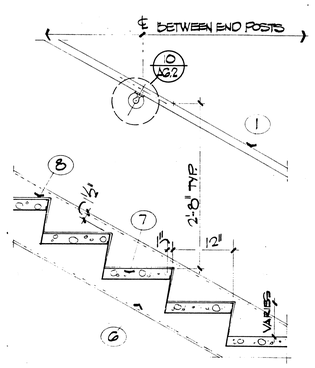
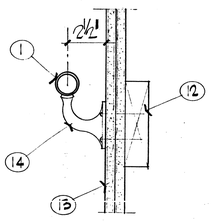


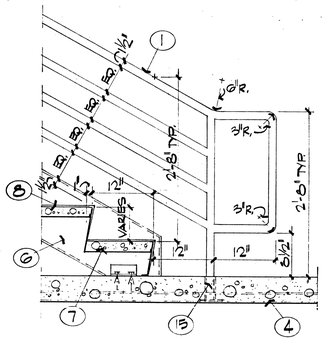
8 / AG.1 DETAIL 1"



9 / AG.2 DETAIL 1"



10 / AG.2 DETAIL 3"



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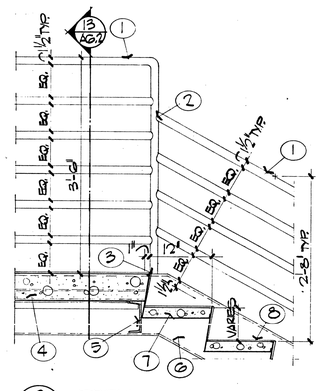
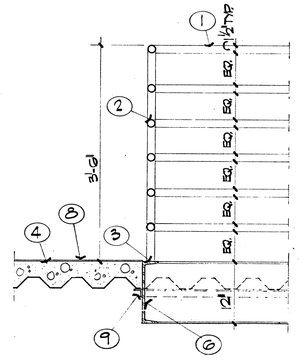
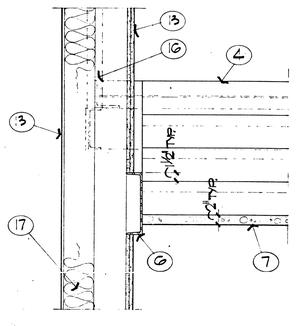


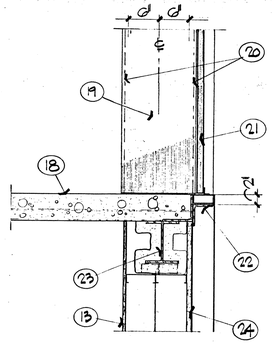
12 / AG.2 DETAIL 1"



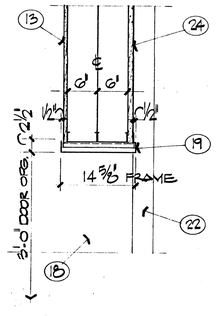
13 / AG.2 SECTION 1"



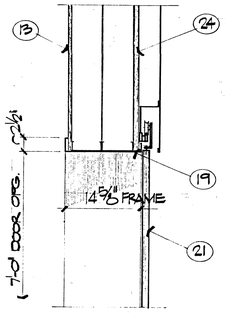
14 / AG.2 DETAIL 1"



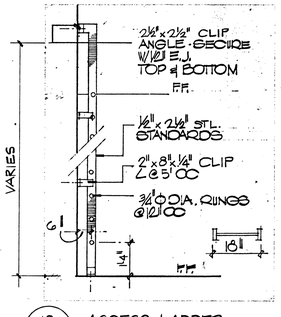
15 / AG.2 DETAIL (SILL) 1"



16 / AG.2 DETAIL (JAMB) 1"



17 / AG.2 DETAIL (HEAD) 1"



18 / AG.2 ACCESS LADDER NO SCALE

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 9791
James R. Burton
No. 10109
Kyle K. Barton
No. 850
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
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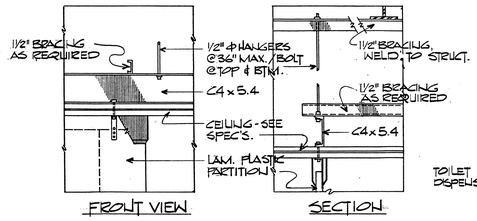
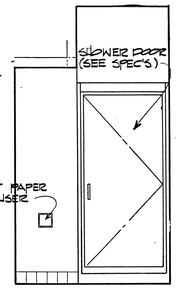
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506.
Date: 4-14-86
Checked by:
Drawing Title: Stair Details

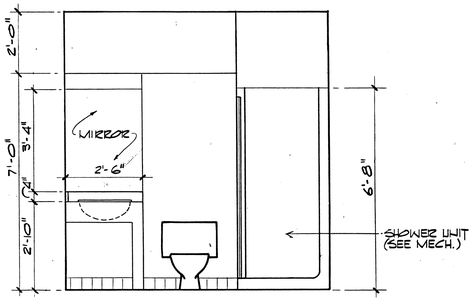
Drawing: A6.2
Sheet 55 of 111



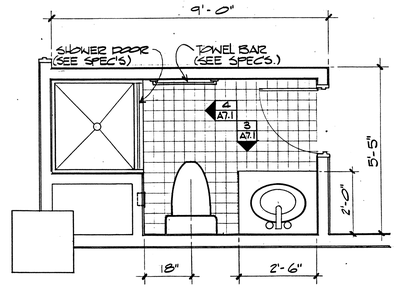
13 / A7.1 CIELING HUNG TOILET PARTITION
NOT TO SCALE



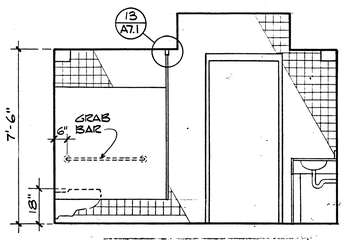
4 / A7.1 ELEVATION
1/2" = 1'-0"



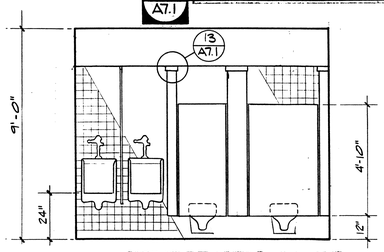
3 / A7.1 ELEVATION
1/2" = 1'-0"



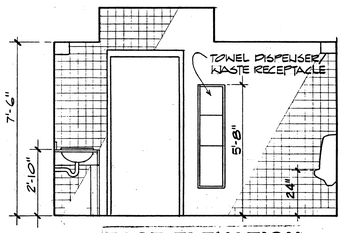
TOILETS @ RMS. 532 & 552
1/2" = 1'-0"



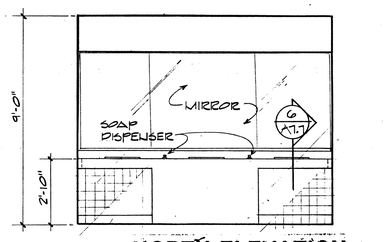
12 / A7.1 WEST ELEVATION MEN
3/8" = 1'-0"



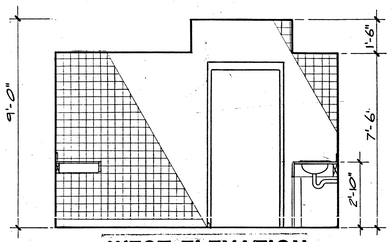
5 / A7.1 SOUTH ELEVATION MEN
3/8" = 1'-0"



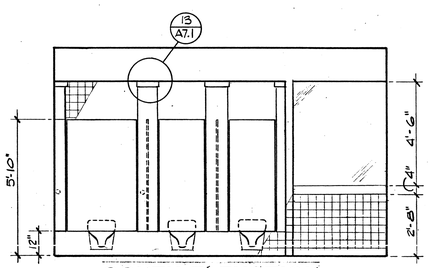
11 / A7.1 EAST ELEVATION MEN
3/8" = 1'-0"



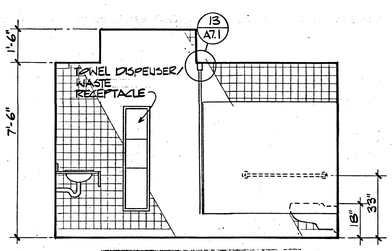
6 / A7.1 NORTH ELEVATION MEN
3/8" = 1'-0"



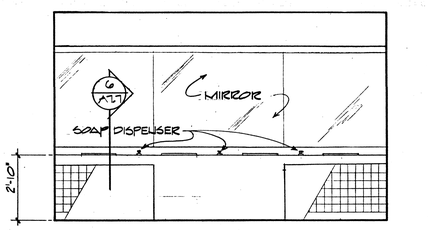
10 / A7.1 WEST ELEVATION WOMEN
3/8" = 1'-0"



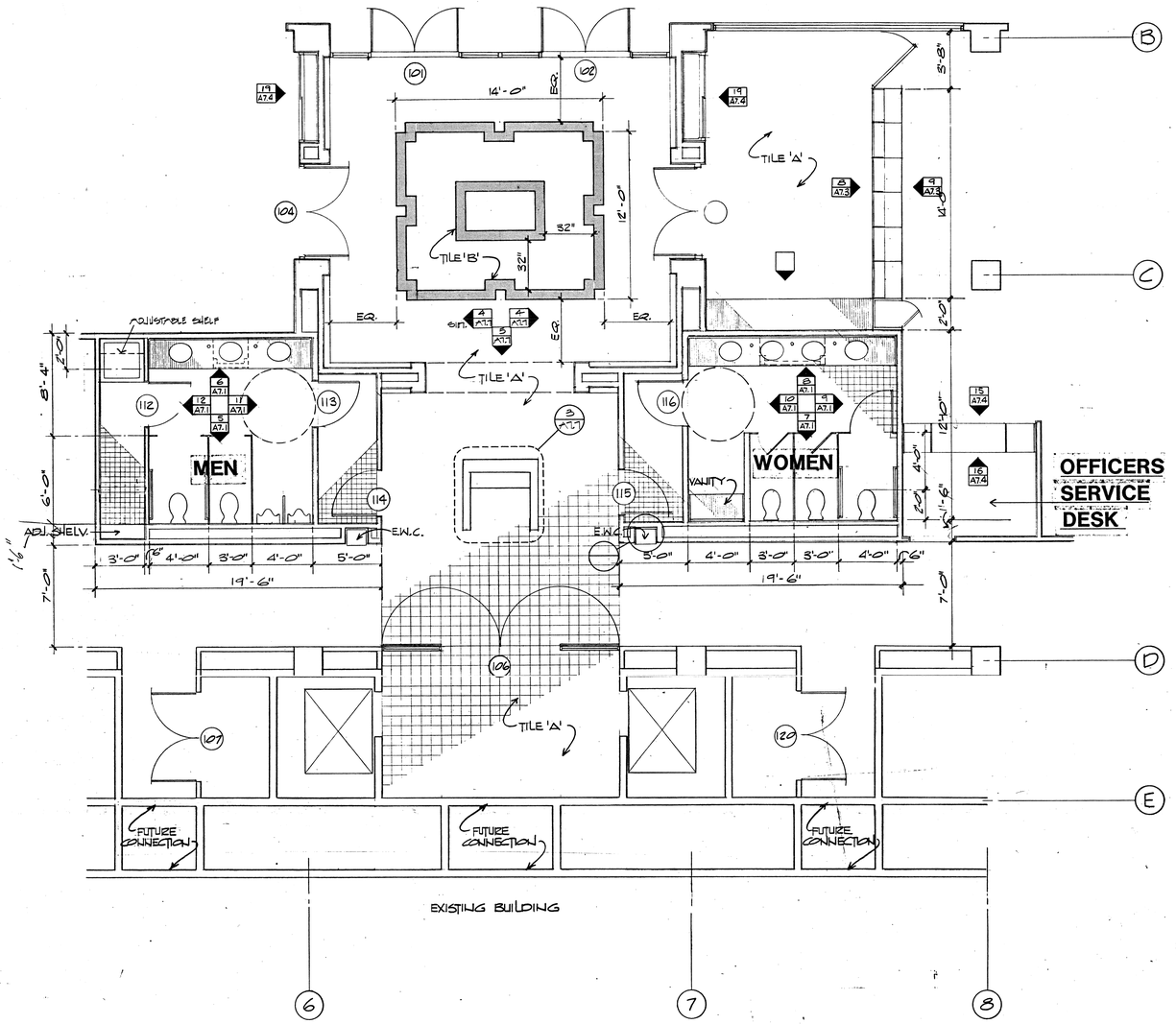
7 / A7.1 SOUTH ELEVATION WOMEN
3/8" = 1'-0"



9 / A7.1 EAST ELEVATION WOMEN
3/8" = 1'-0"



8 / A7.1 NORTH ELEVATION WOMEN
3/8" = 1'-0"



1 / A7.1 ENLARGED PLAN @ FIRST FLOOR (TOILETS SIMILAR AT OTHER FLOORS)
1/4" = 1'-0"

STATE OF NEW MEXICO
Ron L. Hutchinson
Jamie R. Blatt
Reg. No. 11099
Jeffrey R. Burton
Reg. No. 835
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
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Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
3506
Date:
4·14·06
Checked by
Drawing Title
Enlarged Plan @ Toilets

Drawing
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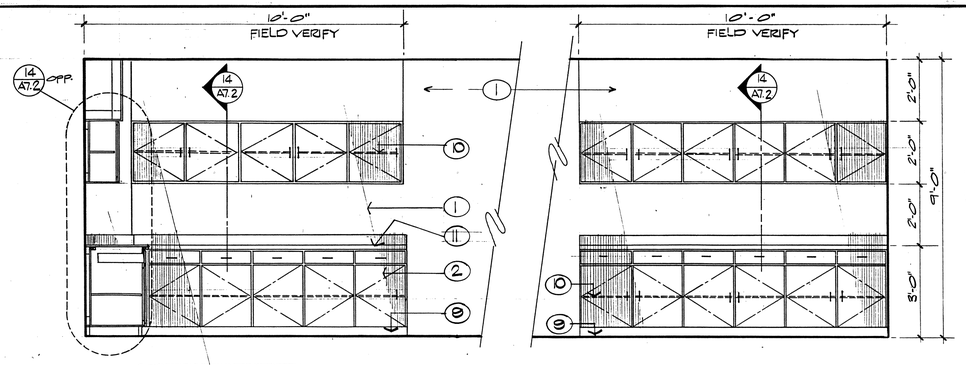
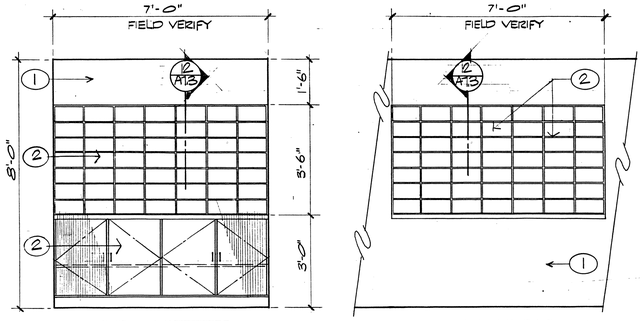


1 A7.2 **COPY RM. 545**
1/2" = 1'-0"

2 A7.2 **COPY RM. 525**
1/2" = 1'-0"

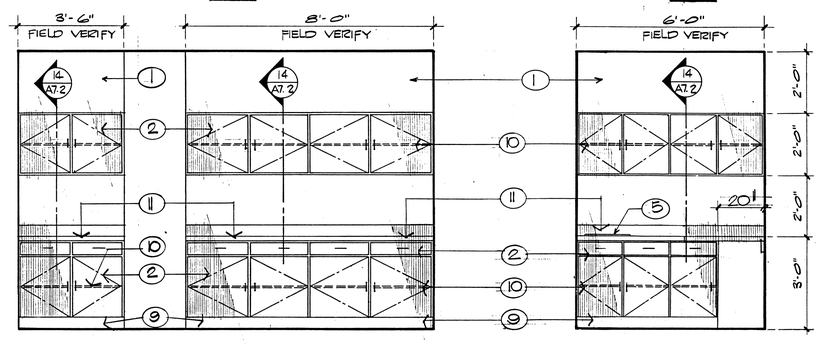


3 A7.2 **MAIL ROOM 525A & 545A**
1/2"=1'-0"

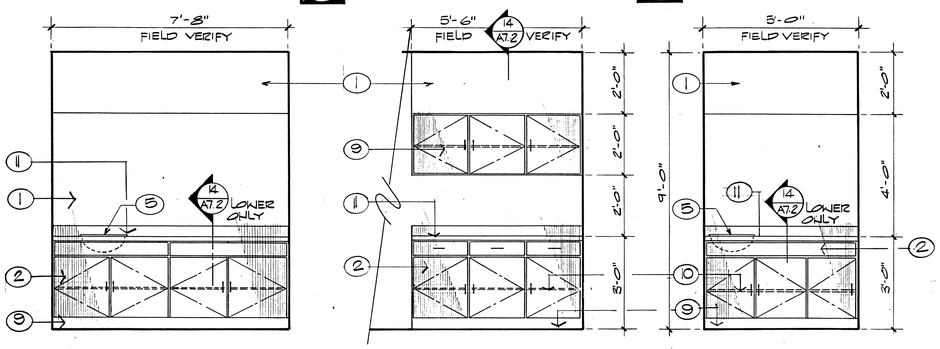
4 A7.2 **CORRIDOR RM. 504 & 505**
1/2" = 1'-0"

KEYED NOTES:

1. 3/4" Particle Board - single or double layer as shown w/plastic laminate on all exposed surfaces.
2. 2 x Framing
3. Pencil drawer w/drawer slides
4. Tile floor and base
5. 3/4" x 3/4" Reveal - cover all surfaces w/plastic laminate.
6. Knee space 3'-0" wide.
7. Aluminum curtain wall (see specs)
8. Reveal in gyp. bd. partition
9. Mechanical Grille (see mechanical)
10. Light fixture (see electrical)
11. Reception desk.
12. Metal lettering (see specs) ("Records" & "Recruiting" - 17 letters total)



9 A7.2 **COPY/STOR. RM. 422**
1/2" = 1'-0"

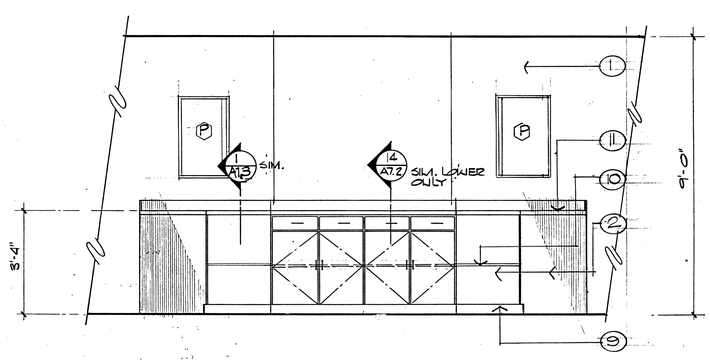


8 A7.2 **KITCHEN RM. 515A & 516A**
1/2" = 1'-0"

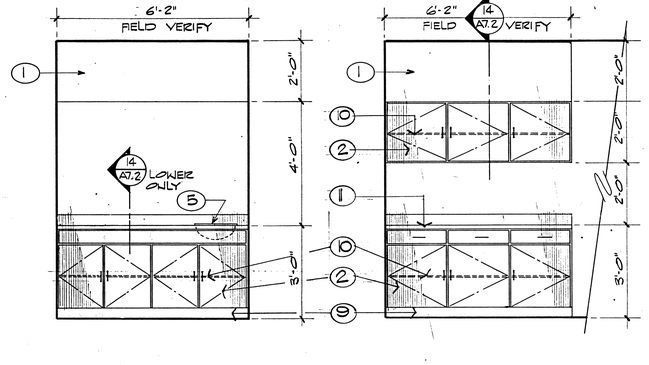
7 A7.2 **COFFEE BAR RM.434**
1/2" = 1'-0"

6 A7.2 **FILES RM. 325**
1/2" = 1'-0"

5 A7.2 **COFFEE BAR**
1/2" = 1'-0"



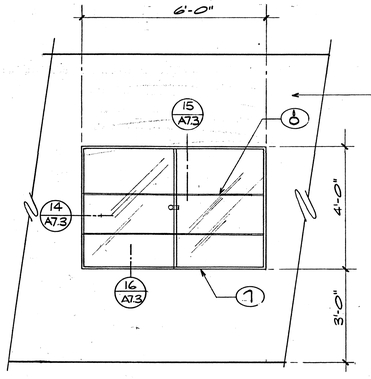
13 A7.2 **PROJECTION RM. 342**
1/2" = 1'-0"



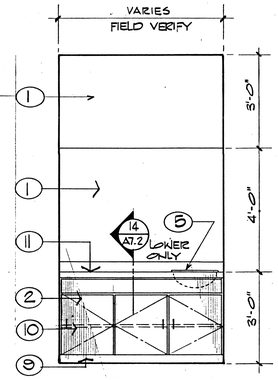
12 A7.2 **COFFEE BAR RM. 335**
1/2" = 1'-0"

11 A7.2 **COPY/FILES RM. 259**
1/2" = 1'-0"

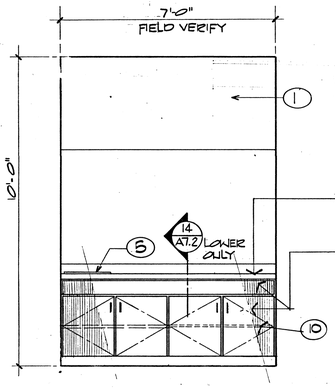
10 A7.2 **COPY RM. 229**
1/2" = 1'-0"



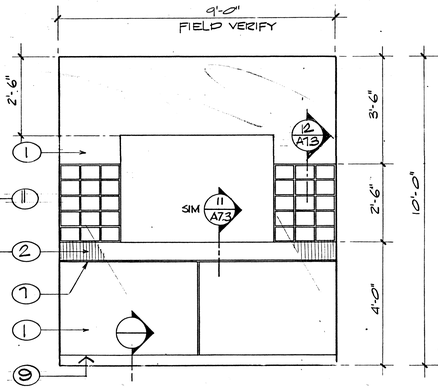
19 A7.2 **RECEPTION RM. 140**
1/2" = 1'-0"



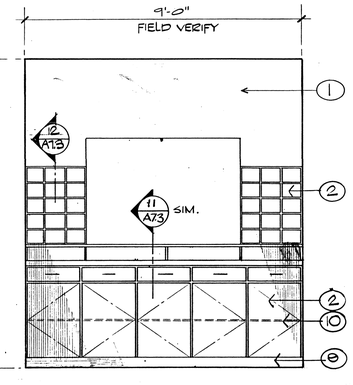
18 A7.2 **COFFEE BAR**
1/2" = 1'-0"



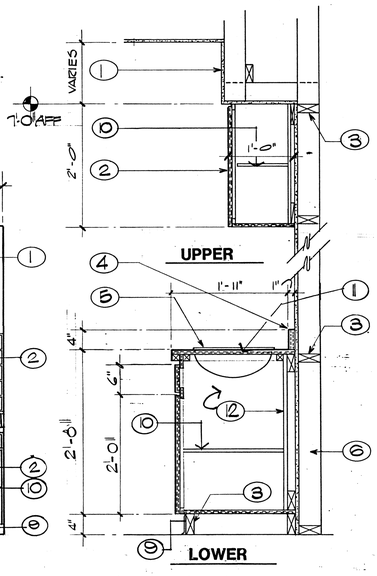
17 A7.2 **COFFEE BAR RM. 108**
1/2" = 1'-0"



16 A7.2 **OFFICERS DESK RM. 126**
1/2" = 1'-0"



15 A7.2 **OFFICERS DESK RM. 126**
1/2" = 1'-0"



14 A7.2 **SECTION (TYP.)**
1" = 1'-0"

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 4537
James T. Burton
No. 4099
Wm. K. Burton
No. 835
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Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number
8506
Date
4·14·86
Checked by
Drawing Title
CASEWORK/ DETAILS

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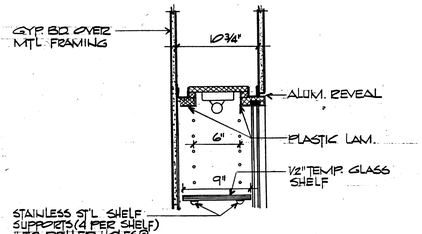
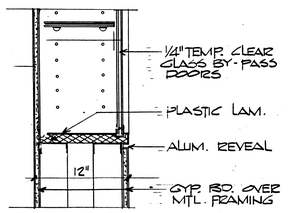
111



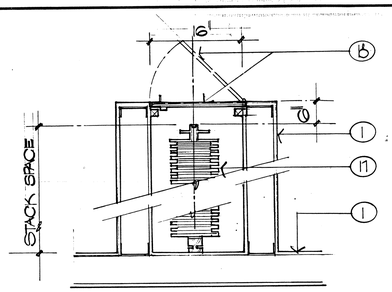
15 A7.3 **DETAIL**

1½" = 1'-0"



16 A7.3 **DETAIL**

1½" = 1'-0"

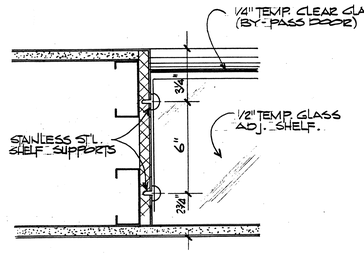


17 A7.3 **DETAIL**

1½" = 1'-0"

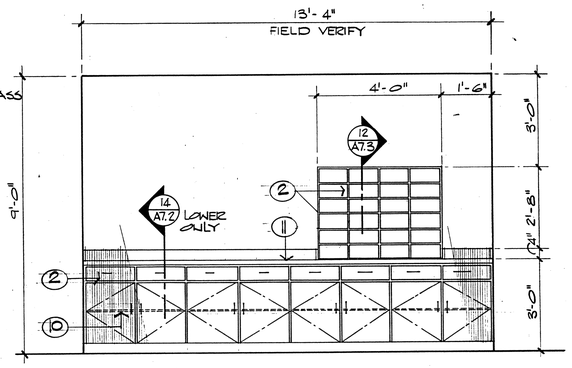
KEYED NOTES:

1. Gyp. bd. 5/8" 'x' gyp. bd. on 3 5/8" framing.
2. Plastic laminate on 3/4" particle board.
3. Fire treated wood blocking as required.
4. 4" splash
5. Plumbing Fixture (see Mech. Drawings)
6. 3 5/8" Mtl. studs @ 24" o.c. w/5/8" gyp. bd.
7. ½" mtl. reveal.
8. ½" tempered glass shelving on mtl. brackets.
9. Typical Base as required for adjacart flooring adjacent
10. Adjustable shelving
11. Plastic laminate counter top on 3/4" particle board.
12. Poltester clad particle board interior (typical on non-exposed surfaces.)
13. 2 layers 5/8" gyp. bd. on 3 5/8" wood framing.
14. ½" tempered glass, butt glaze at intersection.
15. Ceiling as scheduled.
16. Aluminum 'U' channel 1"x ½"x cont. attach to casework w/ wood screws @ 24" o.c. Glazing gasket all around glass.
17. Folding Partition (see specs.)
18. 13"x10' door (nominal) VIF - 3/4" plywood w/plastic laminate all surfaces w/ 2 pair concealed hinges.

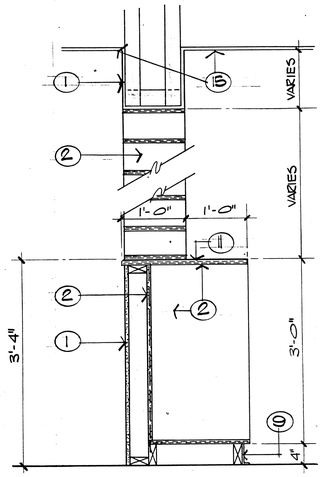


14 A7.3 **DETAIL**

3" = 1'-0"

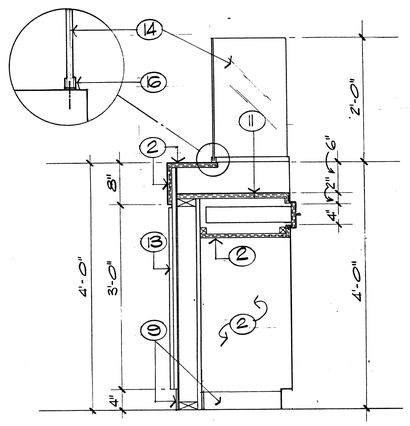


13 A7.3 **COPY RM. 452**



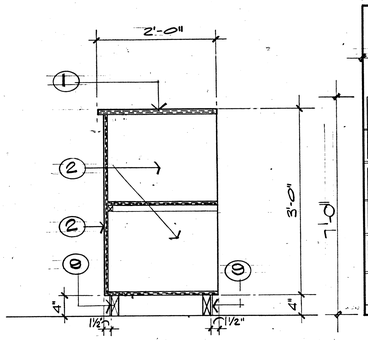
12 A7.3 **SECTION**

1" = 1'-0"



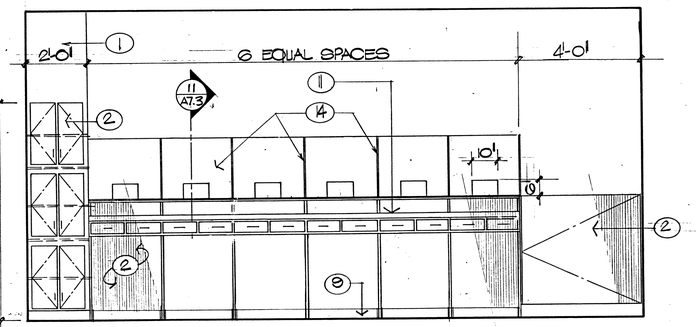
11 A7.3 **SECTION**

1" = 1'-0"



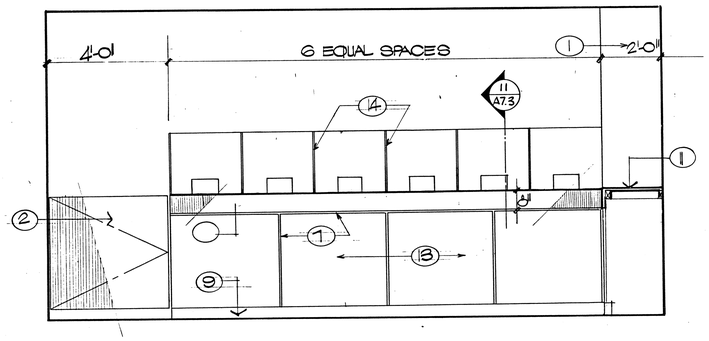
10 A7.3 **SECTION**

1" = 1'-0"



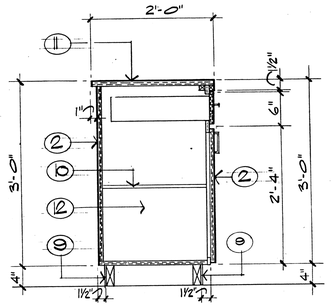
9 A7.3 **CENTRAL RECORDS RM. 121**

½" = 1'-0"



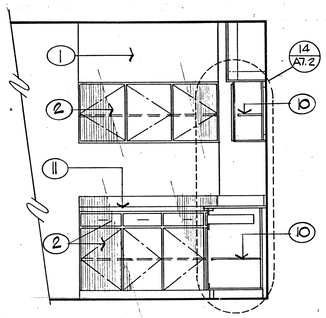
8 A7.3 **CENTRAL RECORDS RM. 121**

½" = 1'-0"



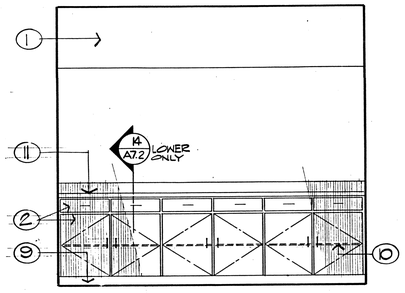
7 A7.3 **SECTION**

1" = 1'-0"



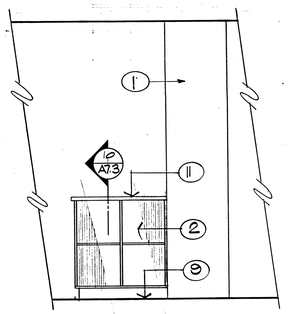
6 A7.3 **COPY RM. 545**

½" = 1'-0"



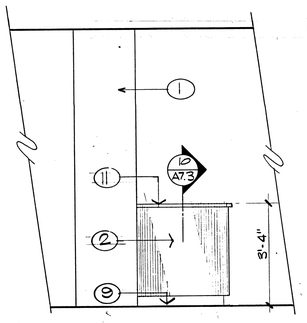
5 A7.3 **COPY RM. 545**

½" = 1'-0"



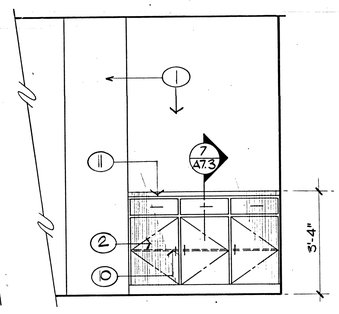
4 A7.3 **ISSUE RM. 441**

½" = 1'-0"



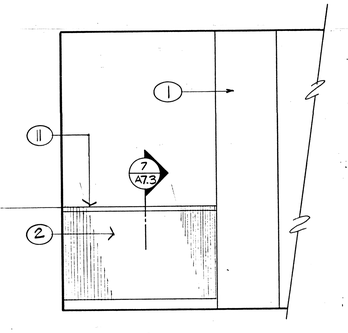
3 A7.3 **ISSUE RM. 441**

½" = 1'-0"



2 A7.3 **ISSUE RM. 441**

½" = 1'-0"



1 A7.3 **ISSUE RM. 441**

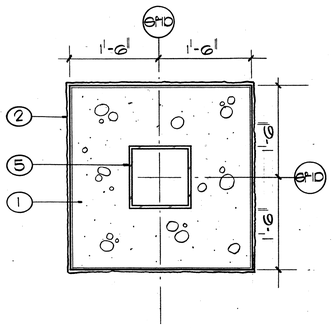
½" = 1'-0"

STATE OF NEW MEXICO
Ron L. Wachinski No. 857
James T. Hall No. 3847
Neal E. Burton No. 859
REGISTERED ARCHITECTS

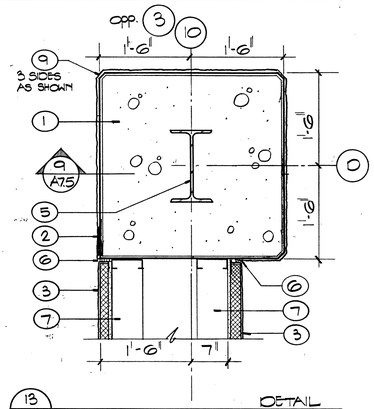
LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4/14/86
Checked by:
Drawing Title: CASEWORK/ DETAILS

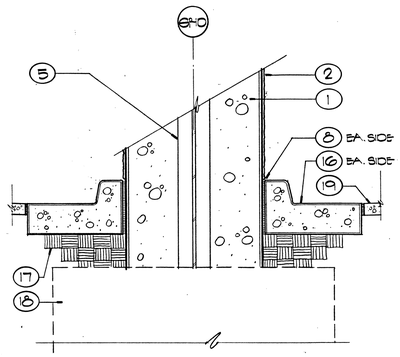
Drawing A7.3
Sheet 55 of 111



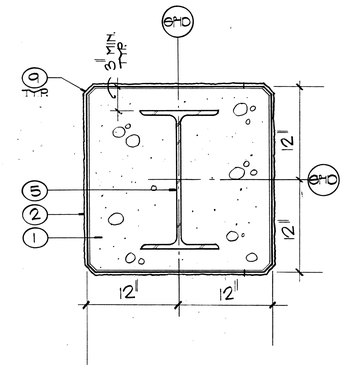
17 / A7.4 DETAIL 1" = 1'-0"



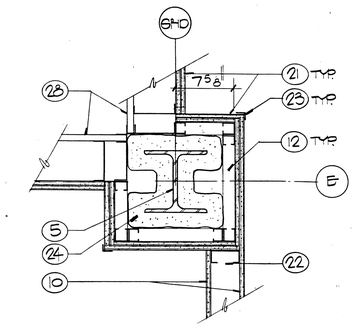
13 / A7.4 DETAIL 1" = 1'-0"



9 / A7.4 SECTION 3/4" = 1'-0"



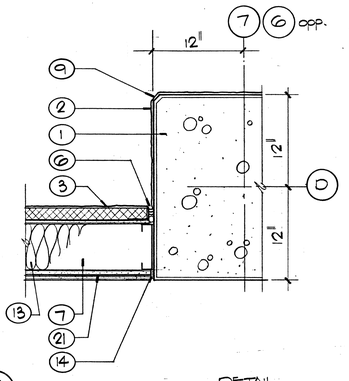
5 / A7.4 DETAIL 1 1/2" = 1'-0"



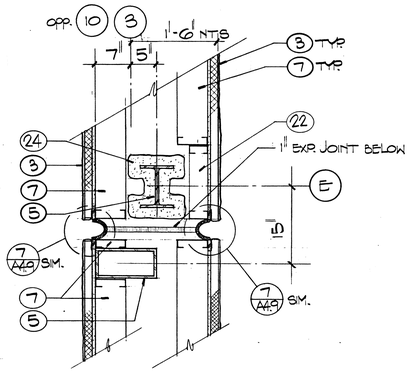
1 / A7.4 DETAIL 1 1/2" = 1'-0"

KEYED NOTES:

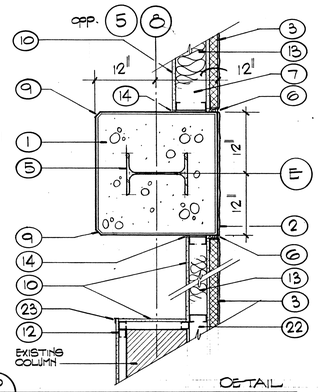
1. Cast-in-place concrete
2. Synthetic finish
3. Synthetic finish on 1½" polystyrene on ½" gyp. bd. sheathing.
4. 2 layers of ½" gyp. bd. - remove & replace existing gyp. bd. to nearest existing stud
5. Steel column - see structural
6. ½" backer rod & sealant
7. 6" - 16 ga. mtl. stud framing @ 24" o.c. max.
8. ½" expansion material
9. 3/4" chamfer
10. 5/8" type 'x' gyp. bd.
11. 4" - 16 ga. mtl. stud framing @ 24" o.c. max.
12. 1 5/8" - 20 ga. mtl. stud framing @ 24" o.c. max.
13. Full batt insulation
14. Sealant
15. Existing construction
16. Concrete curb & gutter - see civil drawings
17. Compacted backfill
18. Pile cap - see structural
19. Concrete pavement - see civil drawings
20. DELETED
21. 2 layers of 5/8" type 'x' gyp. bd.
22. 3 5/8" mtl. stud framing @ 24" o.c. max. - see specs. for gauges
23. Continuous metal corner bead
24. Spray-on fireproofing - see specs.
25. Steel beam - see structural
26. Floor deck - see structural
27. Expansion joint cover - see specs.
28. 6" shaft wall - see specs.
29. DELETED
30. Steel collar - see structural
31. Continuous 16 ga. steel angle
32. Ceiling - see finish schedule



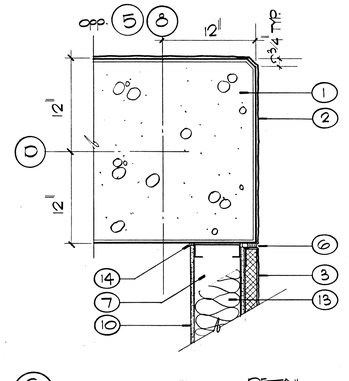
18 / A7.4 DETAIL 1 1/2" = 1'-0"



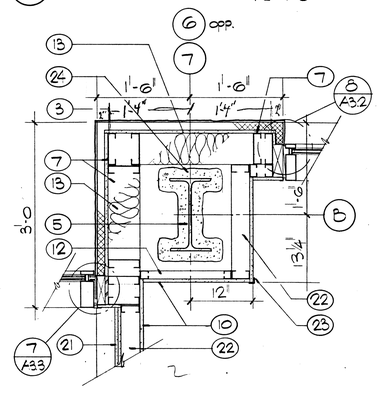
14 / A7.4 DETAIL 1" = 1'-0"



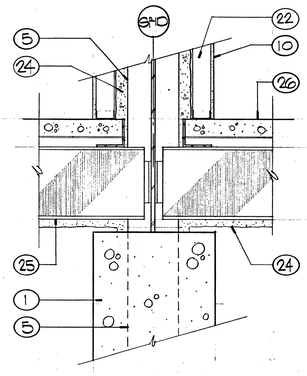
10 / A7.4 DETAIL 1" = 1'-0"



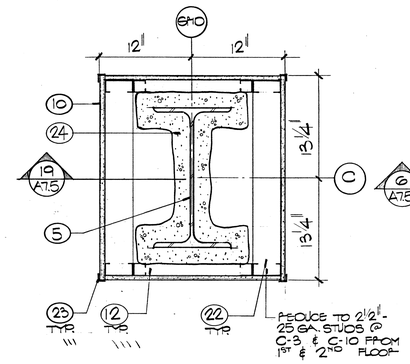
6 / A7.4 DETAIL 1 1/2" = 1'-0"



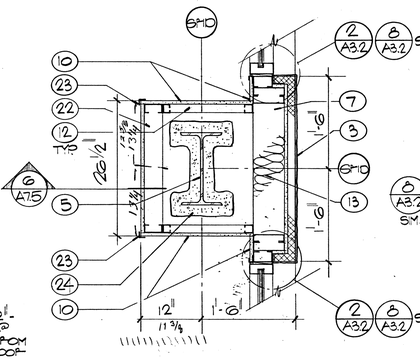
2 / A7.4 DETAIL 1" = 1'-0"



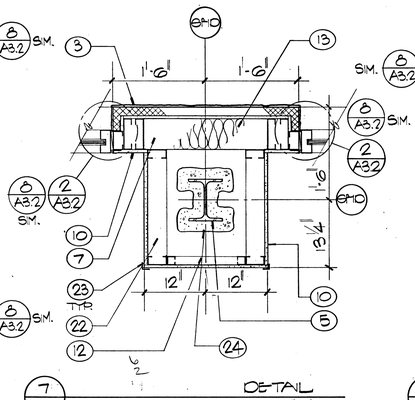
19 / A7.4 SECTION 1" = 1'-0"



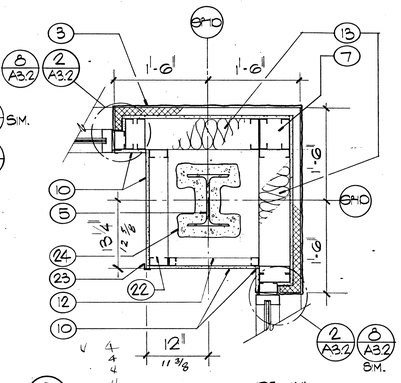
15 / A7.4 DETAIL 1 1/2" = 1'-0"



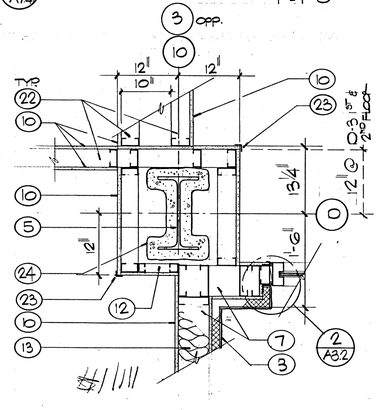
11 / A7.4 DETAIL 1" = 1'-0"



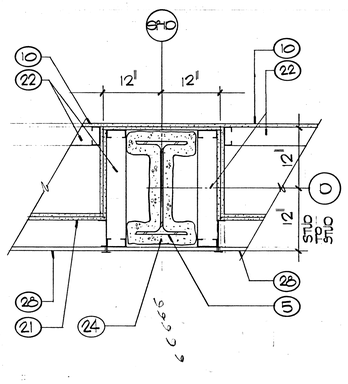
7 / A7.4 DETAIL 1" = 1'-0"



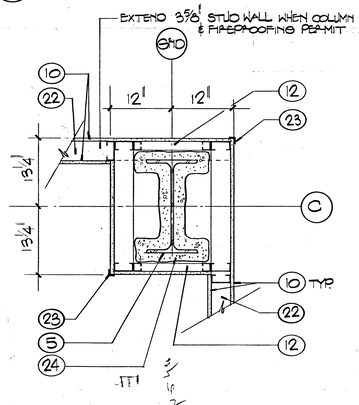
3 / A7.4 DETAIL 1" = 1'-0"



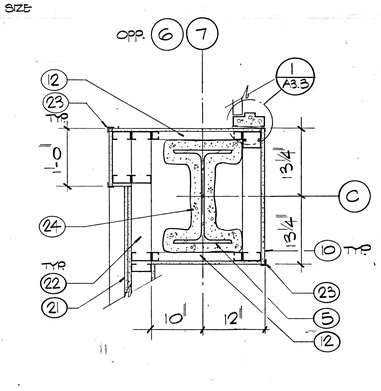
20 / A7.4 DETAIL 1" = 1'-0"



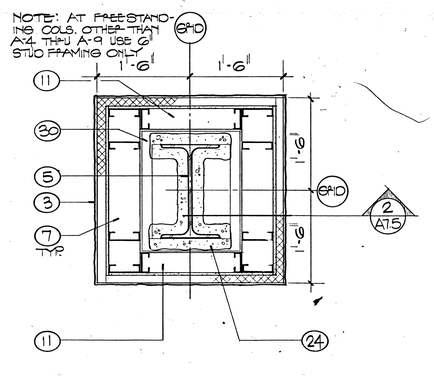
16 / A7.4 DETAIL 1" = 1'-0"



12 / A7.4 DETAIL 1" = 1'-0"



8 / A7.4 DETAIL 1" = 1'-0"



4 / A7.4 DETAIL 1" = 1'-0"

STATE OF NEW MEXICO
Ron L. Hutchinson No. 4599
James T. Brown No. 4109
Ron R. Burton No. 830
REGISTERED ARCHITECTS

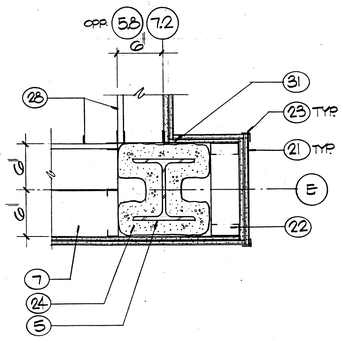
LAW ENFORCEMENT CENTER

400 Roma N.W.
Albuquerque, New Mexico 87102

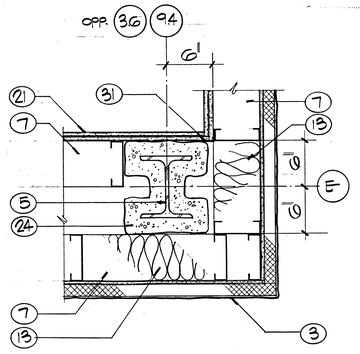
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

Project Number: 8506
Date: 4-14-86
Checked by:
Drawing Title: Misc. Details

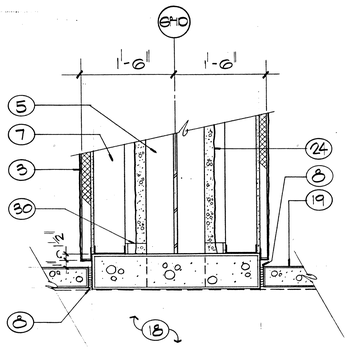
Drawing: A7.4
Sheet: 59



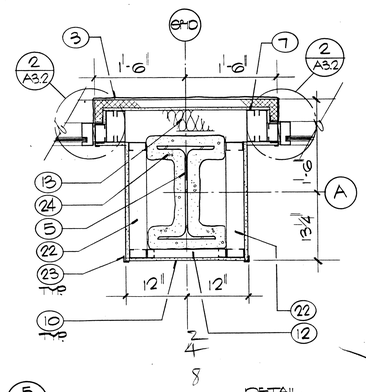
17 / A7.5 DETAIL 1½" = 1'-0



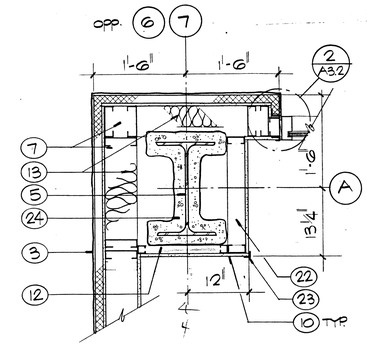
13 / A7.5 DETAIL 1½" = 1'-0



9 / A7.5 SECTION 1" = 1'-0



5 / A7.5 DETAIL 1" = 1'-0



1 / A7.5 DETAIL 1" = 1'-0

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27. Expansion joint cover - see specs.
28. 6" shaft wall - see specs.
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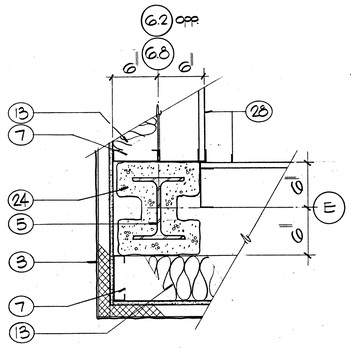
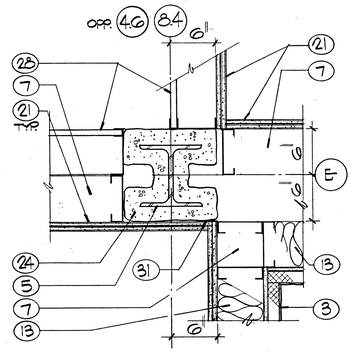
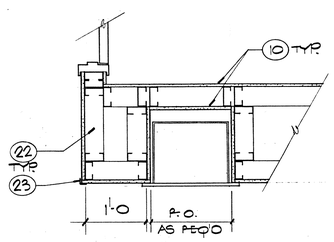
30. Steel collar - see structural
31. Continuous 16 ga. steel angle
32. Ceiling - see finish schedule



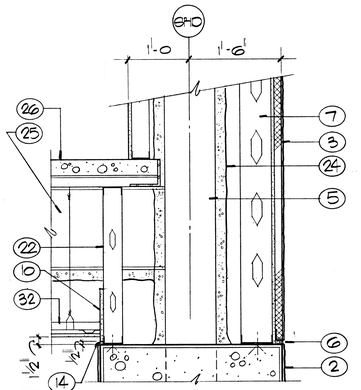
18 / A7.5 DETAIL 1½" = 1'-0



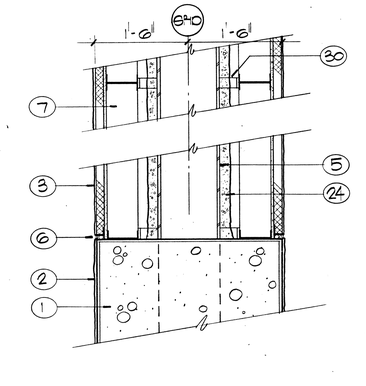
14 / A7.5 DETAIL 1½" = 1'-0



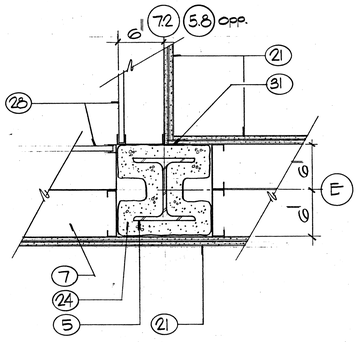
10 / A7.5 DETAIL 1" = 1'-0



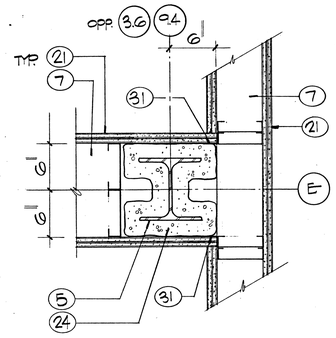
6 / A7.5 SECTION 1" = 1'-0



2 / A7.5 SECTION 1" = 1'-0



19 / A7.5 DETAIL 1½" = 1'-0



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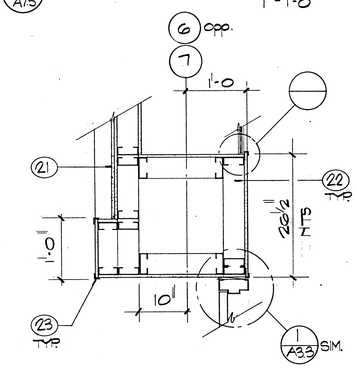

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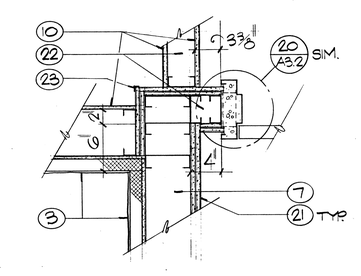
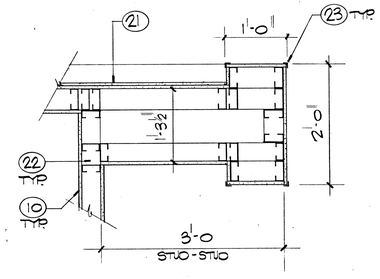


7 / A7.5 DETAIL 1½" = 1'-0



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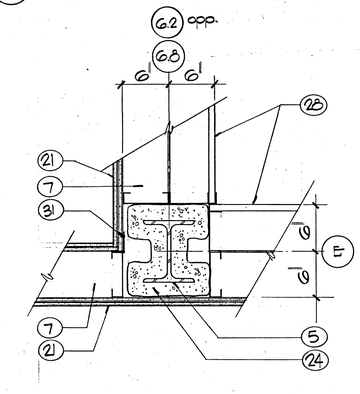

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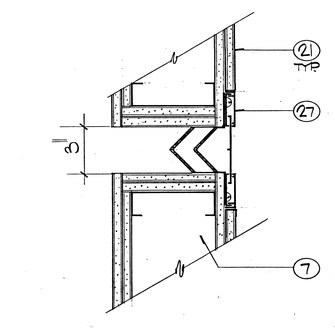
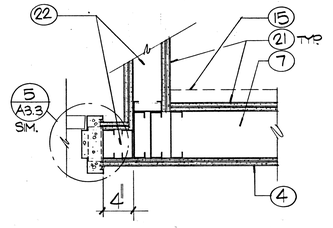


16 / A7.5 DETAIL 3" = 1'-0



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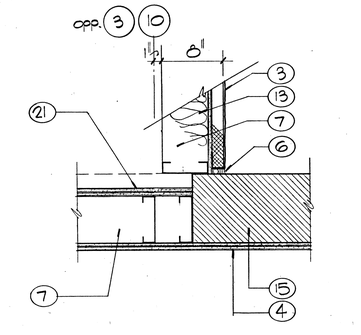

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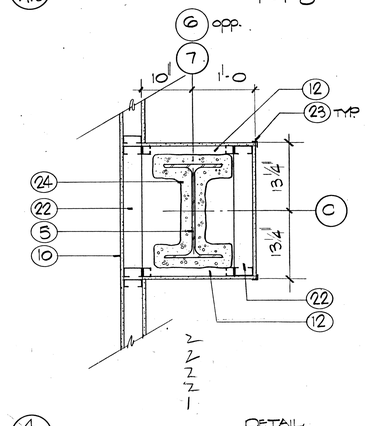

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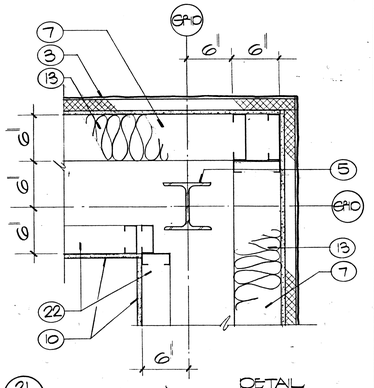

21 / A7.5 DETAIL 1½" = 1'-0

STATE OF NEW MEXICO
Ron J. Hutchinson
No. 832
James J. Johnson
No. 4263
Ron R. Burton
No. 825
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico
87102

Project Number
8606
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4-14-86
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Misc. Details

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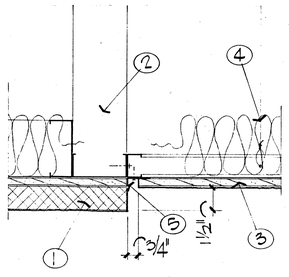
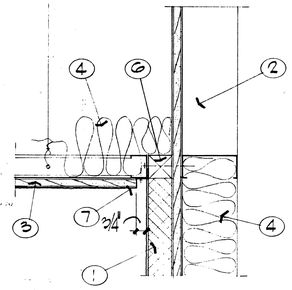


1 A7.6 DETAIL 3"



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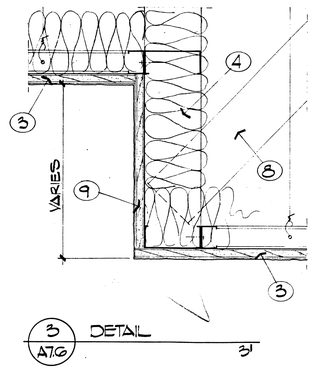

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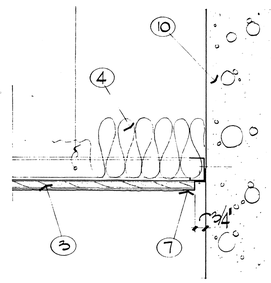

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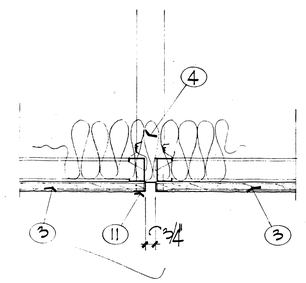
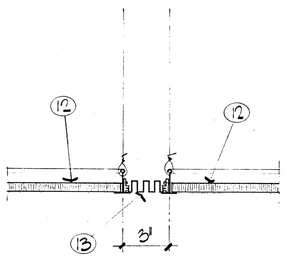


5 A7.6 DETAIL 3"

KEYED NOTES:

1. Synthetic finish on 1¼" polystyrene on ½" gyp. bd. sheathing on metal studs.
2. Metal framing
3. Synthetic finish on 5/8" gyp. bd. on suspended channels @ 24" o.c.
4. Full batt insulation (see specifications for thickness)
5. Drywall molding FDM-625-75 by "Fry Reglet" (or equal)
6. Solid Blocking
7. Drywall molding WDM-625-75 by "Fry Reglet" (or equal)
8. Metal brace back to structure above
9. Synthetic stucco on 5/8" gyp. bd. on metal framing
10. Concrete Wall(see plan)
11. Drywall molding DCS-625-75 by "Fry Reglet" (or equal)
12. 2' x 4' lay-in ceiling system
13. Expansion joint in ceiling AC-20 by "Metalines Inc." (or equal)
14. 5/8" gyp. bd. on susp. channels
15. Metal stud stifferner
16. 5/8" gyp. bd. on metal framing
17. 2-6" metal studs
18. 2 layers 5/8" gyp. bd. on metal framing
19. Light fixture (see structural)
20. Treaded Rods for alignment per mfg. specifications
21. Steel channel (see structural)
22. Steel braces (see structural)
23. 2-2 x 12 blocking
24. Cover plate by Mfg.
25. Folding partition track, continuous
26. 1½" rigid insulation
27. Synthetic finish system
28. Fiber Mesh
29. ½" gyp. bd. sheathing
30. Backer rod
31. Sealant, continuous
32. Conterflashing
33. Fiber cant stup
34. (Deleted)
35. Roofing (see specifications)
36. Roof drain line (see mech.)
37. 90° Elbow
38. 45° Elbow
39. 4" O Pipe cut to size
40. Precast concrete splash block
41. Caulking continuous around drain line
42. Synthetic finish on 1½" polystyrene on ½" ext. grade plywood.



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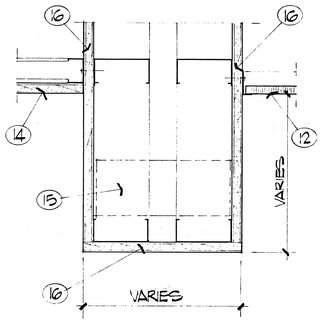

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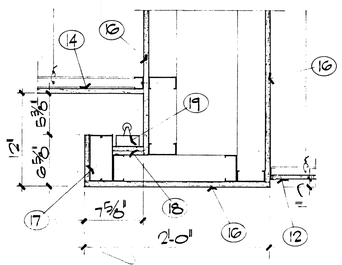

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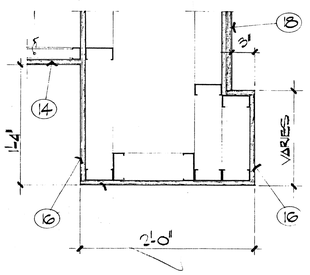

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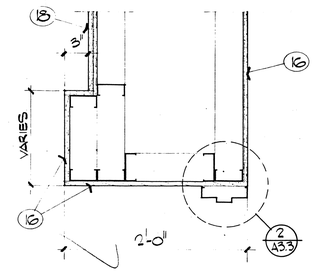

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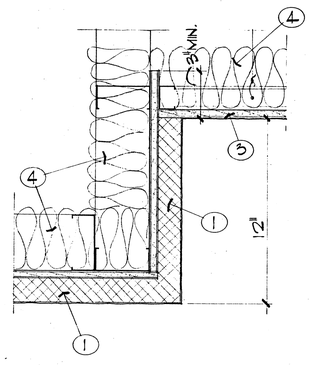

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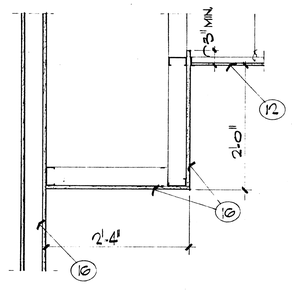

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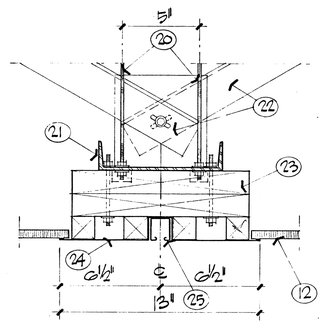

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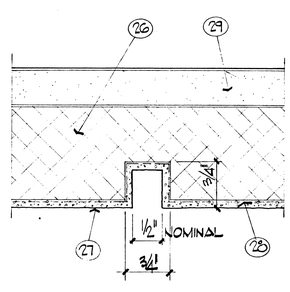
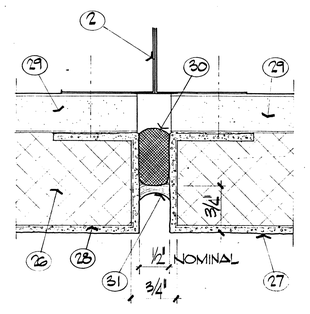


14 A7.6 DETAIL FULL SCALE



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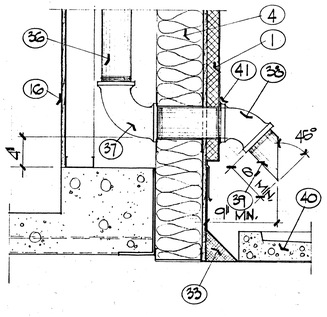

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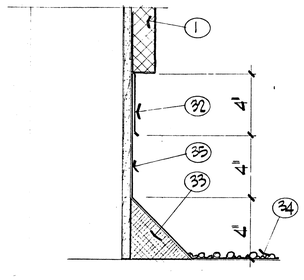

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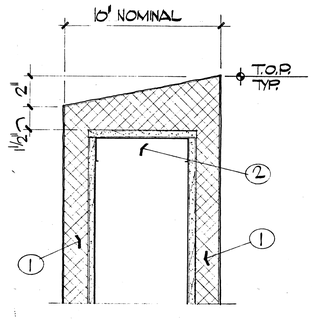

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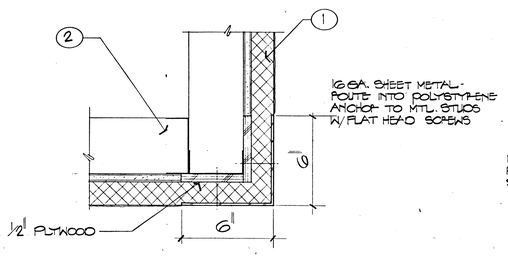

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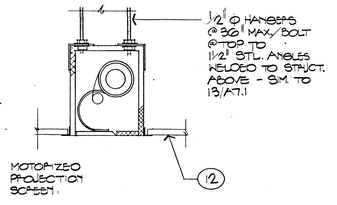


20 A7.6 1½"

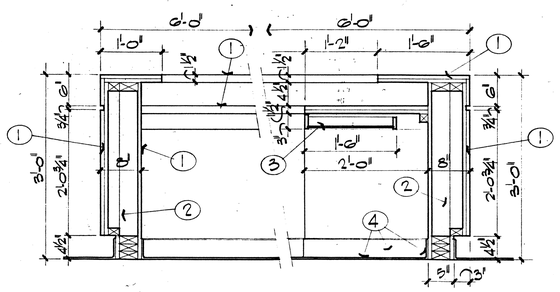
STATE OF NEW MEXICO
Ron L. Hutchinson
No. 7857
James T. Burton
Partner
Bryan K. Burton
No. 855
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER

400 Roma N.W.
Albuquerque, New Mexico 87102
Hutchinson Brown Burton & Partners, Inc. • 202 Central Avenue, SE • Albuquerque, New Mexico 87102 • (505) 842-5630

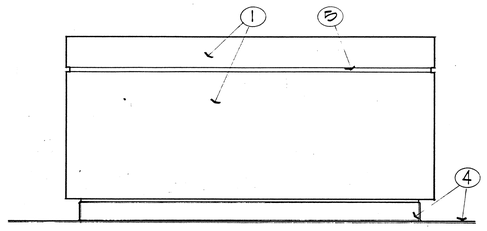
Project Number: 8506
Date: 4·14·86
Checked by:
Drawing Title: Misc. Details

Drawing A7.6
Sheet 9 of 111

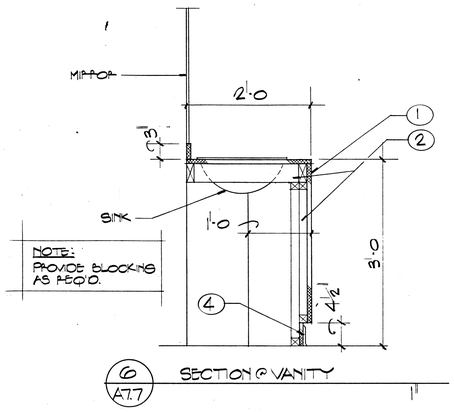


1 A7.7 SECTION 1"

2 A7.7 SECTION 1"



FRONT & SIDE ELEVATION 1"



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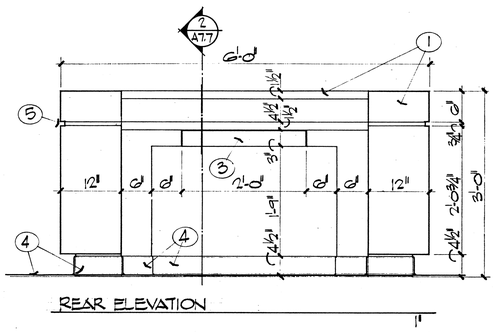

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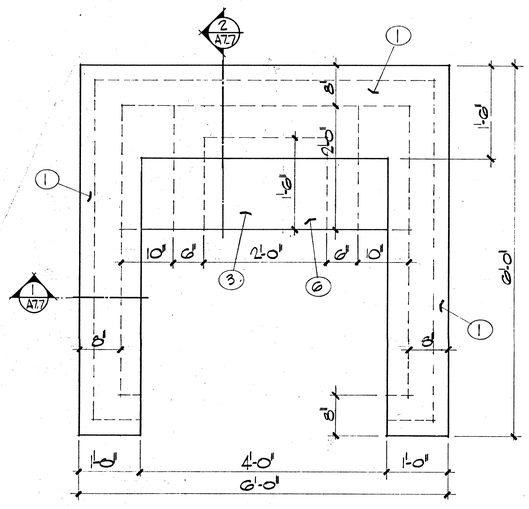
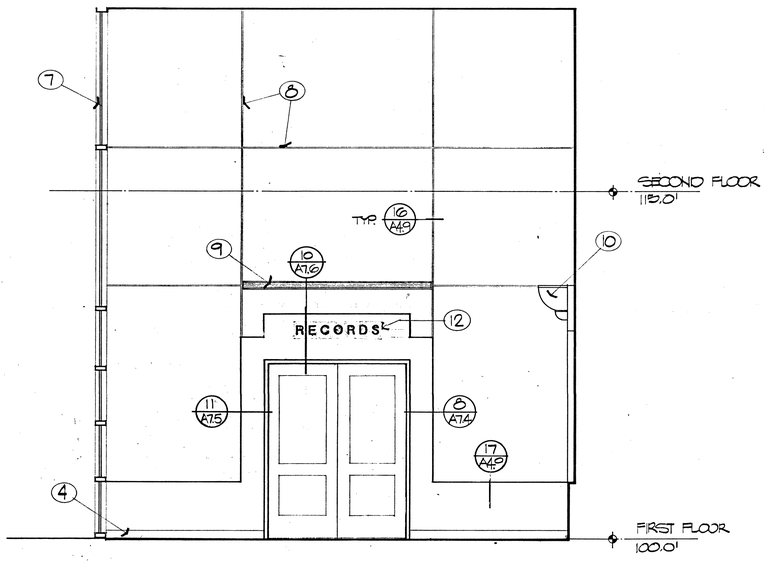
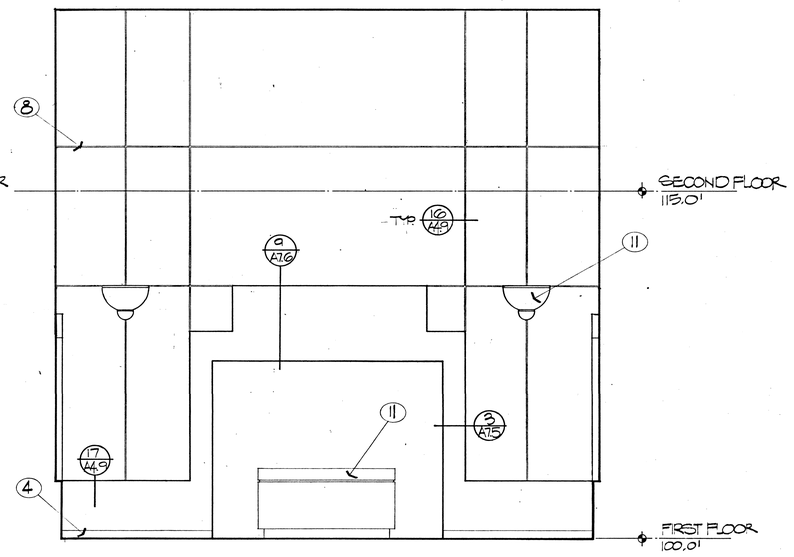


3 A7.7 PLAN @ RECEPTION DESK 1"



4 A7.7 INTERIOR ELEVATION 3/8"



5 A7.7 INTERIOR ELEVATION 3/8"

KEYED NOTES:

1. 3/4" Particle Board - single or double layer as shown w/plastic laminate on all exposed surfaces.
2. 2 x Framing
3. Pencil drawer w/drawer slides
4. Tile floor and base
5. 3/4" x 3/4" Reveal - cover all surfaces w/plastic laminate.
6. Knee space 3'-0" wide.
7. Aluminum curtain wall (see specs)
8. Reveal in gyp. bd. partition
9. Mechanical Grille (see mechanical)
10. Light fixture (see electrical)
11. Reception desk.
12. Metal lettering (see specs) ("Records" & "Recruiting" - 17 letters total)

STATE OF NEW MEXICO
Ron L. Hutchinson No. 7693
James T. Brown No. 7699
Robert K. Burton No. 815
REGISTERED ARCHITECTS

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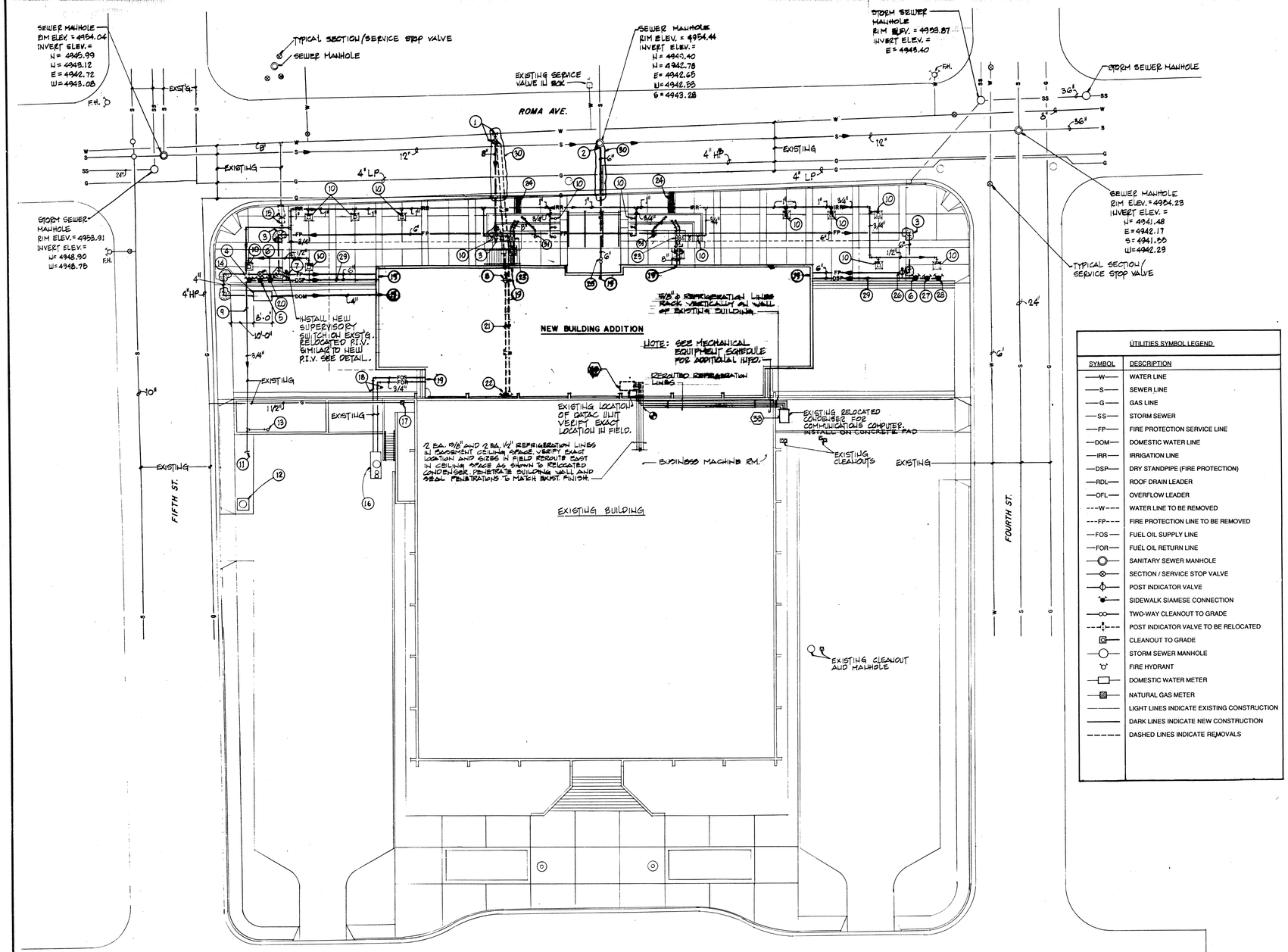

SITE UTILITY PLOT PLAN

SCALE: 1" = 20'

UTILITIES SYMBOL LEGEND

SYMBOL	DESCRIPTION
—W—	WATER LINE
—S—	SEWER LINE
—G—	GAS LINE
—SS—	STORM SEWER
—FP—	FIRE PROTECTION SERVICE LINE
—DOM—	DOMESTIC WATER LINE
—IRR—	IRRIGATION LINE
—DSP—	DRY STANDPIPE (FIRE PROTECTION)
—RDL—	ROOF DRAIN LEADER
—OFL—	OVERFLOW LEADER
---W---	WATER LINE TO BE REMOVED
---FP---	FIRE PROTECTION LINE TO BE REMOVED
—FOS—	FUEL OIL SUPPLY LINE
—FOR—	FUEL OIL RETURN LINE
	SANITARY SEWER MANHOLE
	SECTION / SERVICE STOP VALVE
	POST INDICATOR VALVE
	SIDEWALK SIAMESE CONNECTION
	TWO-WAY CLEANOUT TO GRADE
	POST INDICATOR VALVE TO BE RELOCATED
	CLEANOUT TO GRADE
	STORM SEWER MANHOLE
	FIRE HYDRANT
	DOMESTIC WATER METER
	NATURAL GAS METER
	LIGHT LINES INDICATE EXISTING CONSTRUCTION
	DARK LINES INDICATE NEW CONSTRUCTION
	DASHED LINES INDICATE REMOVALS

UTILITIES NOTES:

- **CONTRACTOR NOTE:** THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL OFFICIALS AND PREVIOUS CONSTRUCTION DRAWINGS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES IN THE IMMEDIATE VICINITY OF THE PROPOSED BUILDING MAY BE SLIGHTLY DIFFERENT FROM THE LOCATION SHOWN ON THIS DRAWING. IF ADDITIONAL LINES ARE ENCOUNTERED, THEY SHALL BE EXPOSED AND IDENTIFIED BY THIS CONTRACTOR. WHERE ADDITIONAL LINES AND/OR DIFFERING LOCATIONS ARE ENCOUNTERED, THIS CONTRACTOR SHALL REQUEST THAT THE ARCHITECT MAKE A RULING AS TO ANY NECESSARY CHANGE OF MATERIALS, RE-ROUTING, ABANDONING OR RELOCATING OF SUCH LINES. GAS COMPANY OF NEW MEXICO SHALL BE THE SOLE AUTHORITY IN RULING ON THE DISPOSITION OF NATURAL GAS PIPING. ALL LINES ENCOUNTERED THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED (IF ACTIVE) AND SHALL BE REMOVED (IF INACTIVE) BY THIS CONTRACTOR UNDER THIS CONTRACT. ALL BIDDERS ARE CAUTIONED TO INVESTIGATE SITE CONDITIONS BEFORE SUBMITTING THEIR BIDS. ALL EXISTING LINES REQUIRING MINIMUM EARTH COVERAGE, AS REQUIRED BY STATE AND LOCAL CODES, OR AS NOTED DUE TO NEW FINISH GRADES, SHALL BE ADJUSTED AS REQUIRED TO HAVE MINIMUM COVERAGE REQUIREMENTS. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES, FRONTAGE AND METER CONNECTION FEES AND ANY OTHER CHARGES THAT MAY BE INVOLVED IN THE EXTENSION OF UTILITY LINES REQUIRED IN CONNECTION WITH ALL MECHANICAL/PLUMBING SERVICE LINE WORK.
- **GENERAL:** THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO MECHANICAL UTILITIES INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEANOUT PADS, SERVICE STOPS AND BOXES, SERVICE LINES, ETC., TESTING, CLEANING AND STERILIZING. ANY WORK NOT ACCEPTED BY THE ARCHITECT OR MECHANICAL ENGINEER DUE TO IMPROPER WORKMANSHIP OR LACK OF PROPER COORDINATION SHALL BE REMOVED AND CORRECTLY INSTALLED AT THE MECHANICAL CONTRACTOR'S EXPENSE, AS DIRECTED.

  MINIMUM DEPTH BELOW GRADE (COVER):

  WATER - (42") SEWER - (24") GAS - (18")

  REFER TO ARCHITECTURAL PLANS FOR FINISH AND EXISTING GRADES.
- THIS CONTRACTOR SHALL COORDINATE CUT-OFF OF EXISTING UTILITIES FOR NEW CONNECTIONS WITH CITY OF ALBUQUERQUE ENGINEERING OFFICIALS AND OWNER, AND SHALL CONFORM TO THEIR REQUIREMENTS. UTILITIES CONNECTION POINTS ARE APPROXIMATE ONLY. EACH BIDDER SHALL SATISFY HIMSELF AS TO EXISTING SITE CONDITIONS BEFORE SUBMITTING HIS BID. NO ALLOWANCE SHALL BE MADE AFTER THE CONTRACT IS AWARDED TO COMPENSATE FOR LACK OF PRE-BID INSPECTION OF THE SITE BY THE SUCCESSFUL BIDDER.
- SEWER PIPING BELOW SLAB OR PAVING, OR WITHIN 10' OF WATER LINES SHALL BE STANDARD WEIGHT CAST IRON.
- THIS CONTRACTOR SHALL COORDINATE ALL UTILITY WORK (FIRE PROTECTION AND DOMESTIC WATER, SEWER, STORM DRAIN, GAS PIPING, AND FUEL OIL PIPING) WITH ARCHITECT, OWNER AND LOCAL UTILITIES ENGINEERING OFFICIALS AND SHALL CONFORM TO THEIR REQUIREMENTS.
- CONTRACTOR SHALL EXPOSE AND VERIFY INVERT ELEVATIONS OF RELEVANT SEWER LINES AND MANHOLES BEFORE SETTING ANY NEW INVERTS (EITHER INSIDE BUILDING AREA OR ON SITE). SHOULD INVERTS DIFFER GREATLY FROM THOSE SHOWN ON THESE DRAWINGS, THE ARCHITECT SHALL BE NOTIFIED AND A DECISION MADE AS TO ANY CHANGE IN MANHOLE INVERTS, CHANGES IN ROUTING OR CHANGE IN ON-SITE SEWER LINE SLOPE AND INVERTS.
- ALL MATERIALS (VALVES, LINES, ETC.) REMOVED FROM THE SITE, TO BE TURNED OVER TO MAINTENANCE PERSONNEL, OR DISPOSED OF AS DIRECTED BY OWNER OR HIS REPRESENTATIVE.
- CONTRACTOR TO SUBMIT IN WRITING, 10 DAYS PRIOR TO ANTICIPATED SHUT-DOWN OF EXISTING UTILITIES TO MAKE NEW CONNECTIONS, SHOWING OWNER LOCATIONS OF CONNECTIONS AND AREAS AFFECTED BY SHUT-DOWN. IF CANCELLATION OF NEW CONNECTIONS AND SHUT-DOWN BE REQUIRED, A 72-HOUR NOTICE WILL BE REQUIRED TO BE DELIVERED, IN WRITING, TO THE OWNER AND A NEW SCHEDULE SUBMITTED. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE OWNER WILL NOTIFY CONTRACTOR AND VERIFY THAT ANTICIPATED SHUT-DOWNS AND SCHEDULES ARE ACCEPTABLE.
- UTILITIES CONNECTIONS REQUIRING MAJOR SHUT-DOWN OF EXISTING FACILITIES SHALL BE SCHEDULED DURING OFF-HOURS, SUCH AS EVENINGS AND WEEKENDS, AND MUST BE SCHEDULED AND APPROVED BY OWNER AND ARCHITECT.
- DURING THE COURSE OF REMODEL AND REMOVAL WORK, INVOLVING REMOVAL OF WALLS, PARTITIONS, WATER LINES, WASTE LINES, FIRE PROTECTION LINES AND VENT LINES, THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES TO KEEP EXISTING FACILITIES IN OPERATION UNTIL NEW SERVICES CAN BE INSTALLED AND CONNECTED. THE EXISTING FIRE PROTECTION SYSTEM AND FIRE HOSE CABINETS AND RELOCATION OF FIRE PROTECTION LINES SHALL BE COORDINATED WITH OWNER, ARCHITECT AND STATE FIRE MARSHALS TO INSURE ADEQUATE FIRE PROTECTION COVERAGE FOR EXISTING BUILDING AS WELL AS NEW CONSTRUCTION AREAS. TEMPORARY SERVICES AND FIRE HOSE CABINETS SHALL BE PROVIDED, IF SO REQUESTED BY OWNER, ARCHITECT OR STATE FIRE MARSHAL, TO PROVIDE COVERAGE DURING ISOLATION OF BUILDING AREAS FOR CONSTRUCTION PURPOSES.
- CONTRACTOR SHALL SUBMIT TO OWNER AND ARCHITECT A SCHEDULE FOR PHASING OF CONSTRUCTION, INDICATING AREAS OF FIRST PRIORITY DURING EACH PHASE, APPROXIMATE STARTING TIMES FOR EACH AREA AND PHASE, AND APPROXIMATE COMPLETION DATES FOR EACH AREA AND PHASE. OWNER AND ARCHITECT WILL REVIEW THESE SCHEDULES AND NOTIFY CONTRACTOR OF ACCEPTANCE, CHANGES IN SCHEDULE, ETC. IN ORDER TO SET SCHEDULES ACCORDINGLY. CUTTING AND PATCHING OF EXISTING SIDEWALKS, PAVING, CURBS, ETC. TO BE INCLUDED IN THIS CONTRACT.
- **CAUTION NOTE:** THE CONTRACTOR SHALL HAND EXCAVATE FOR INSTALLATION OF ALL NEW UTILITIES CROSSING EXISTING ELECTRICAL (SEE ELECTRICAL DRAWINGS) AND NATURAL GAS BURIED UTILITIES. HAND EXCAVATION SHALL BE PERFORMED SIX (6) FEET BEYOND THESE UTILITIES IN EACH DIRECTION, TYPICAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SUPPORT AND PROTECTION FOR EXISTING UTILITIES BEING CROSSED BY NEW UTILITIES AND UNDERMINED BY THE REQUIRED EXCAVATION.
- THIS CONTRACTOR SHALL INSTALL BARRICADES IN PEDESTRIAN AND VEHICULAR TRAFFIC AREAS AS NEEDED TO INSURE SAFETY AND THAT ALL FEDERAL, STATE AND LOCAL STANDARDS ARE COMPLIED WITH.
- CONTRACTOR SHALL MAKE EVERY EFFORT TO PROMPTLY COVER ALL PIPE TRENCHES AND OTHER EXCAVATION SITES TO MINIMIZE ANY POTENTIAL HAZARDS.

KEYED NOTES:

1. CONNECT NEW 6" WATER TO EXISTING 8" WATER MAIN AT APPROXIMATELY THIS POINT. INSTALL NEW SERVICE STOP VALVE IN CAST IRON BOX. SEE DETAIL. VERIFY EXACT LOCATION OF EXISTING PIPING IN FIELD.
2. CONNECT NEW 6" SEWER SERVICE LINE TO EXISTING SANITARY SEWER MANHOLE (ENTER MANHOLE WITH NEW LINE 6" ABOVE EXISTING INVERT ELEVATION) AT APPROXIMATELY THIS POINT. VERIFY EXISTING SEWER MANHOLE LOCATION IN FIELD.
3. TYPICAL CONCRETE THRUST BLOCK. SEE DETAIL.
4. SIDEWALK SIAMESE CONNECTION WITH 6" DRY STANDPIPE SERVE EXISTING BUILDING. SEE SHEET P 2.2 FOR ADDITIONAL INFORMATION.
5. SIDEWALK SIAMESE CONNECTION WITH 4" WET SPRINKLER SYSTEM PIPE TO SERVE EXISTING BUILDING. SEE SHEET P 2.2 FOR ADDITIONAL INFORMATION.
6. SIDEWALK SIAMESE CONNECTION TO 6" DRY STANDPIPE SERVING NEW BUILDING ADDITION. SEE SHEET P 2.2 FOR ADDITIONAL INFORMATION.
7. RELOCATED POST INDICATOR VALVE (P.I.V.) INSTALLED IN NEW 6" FIRE PROTECTION LINE SERVING EXISTING BUILDING SPRINKLER. SEE SHEET P 2.2 FOR ADDITIONAL INFORMATION AND KEYED NOTE 8 .
8. RELOCATE EXISTING POST INDICATOR VALVE (P.I.V.) TO LOCATION INDICATED ON PLAN. INSTALL AND CONNECT TO NEW 6" FIRE PROTECTION LINE SERVING EXISTING BUILDING. SEE SHEET P 2.2 AND KEYED NOTE 7 FOR ADDITIONAL INFORMATION.
9. CONNECT NEW 3/4" WATER IRRIGATION LINE TO EXISTING 3/4" WATER IRRIGATION LINE AT APPROXIMATELY THIS POINT. VERIFY EXACT LOCATION OF PIPING IN FIELD.
10. EXTEND 1/2" WATER LINE FROM 3/4" WATER MAIN TO BUBBLER LOCATED IN TREE WELL AND/OR PLANTER LOCATION. BUBBLERS TYPICAL WHERE SHOWN.
11. EXISTING 3/4" WATER LINE FOR IRRIGATION CONTINUES BEYOND TO SERVE EXISTING LANDSCAPE.
12. EXISTING WELL TO REMAIN UNDISTURBED.
13. EXISTING YARD HYDRANT TO REMAIN.
14. INSTALL NEW WATER METER FOR 290 GPM, CONTRACTOR TO INSTALL CONCRETE METER PIT, AS PER THE CITY OF ALBUQUERQUE WATER UTILITIES DEPARTMENT REQUIREMENTS AND SPECIFICATIONS.
15. EXISTING MAIN SHUTOFF AND METER FOR IRRIGATION TO REMAIN. INSTALL NEW BRANCH SHUTOFF VALVE DOWNSTREAM OF METER REPLACING EXISTING VALVE AND CONNECT TO NEW 1" IRRIGATION LINE.
16. EXISTING FUEL OIL STORAGE TANK TO REMAIN UNDISTURBED.
17. EXISTING GAS ROTARY METER WITH EXISTING CAPACITY OF 7082 CFH. CONTRACTOR SHALL COORDINATE WITH THE GAS CO. OF NM THE REPLACEMENT OF/OR READJUSTMENT OF METER TO HANDLE NEW CAPACITY OF 9856 CFH AT 7" WATER LOCUMN LEAVING PRESSURE. SEE SHEET P 2.2 FOR ADDITIONAL INFORMATION.
18. CONNECT NEW 3/4" FUEL OIL SUPPLY AND RETURN LINES TO EXISTING 3/4" LINES AT APPROXIMATELY THIS POINT. VERIFY EXACT LOCATION IN FIELD. SEE SHEET P 2.2 FOR ADDITIONAL INFORMATION.
19. SEE SHEET P 2.2 AND/OR P 2.3 FOR CONTINUATION OF PIPING.
20. INSTALL NEW SECTION SERVICE SHUT-OFF GATE VALVE IN CAST IRON VALVE BOX. SEE DETAIL.
21. EXISTING FIRE PROTECTION AND WATER MAINS SERVING EXISTING BUILDING. REMOVE TO MAIN ENTIRELY. SEE SHEET P 2.2 FOR ADDITONAL INFORMATION.
22. EXISTING WALL SIAMESE CONNECTIONS. REMOVE ENTIRELY. SEE SHEET P 2.2, KEYED NOTES 4 AND 5 FOR ADDITIONAL INFORMATION.
23. TWO-WAY CLEANOUT TO GRADE WITH TOP SET FLUSH WITH TOP OF SIDEWALK. SEE DETAIL.
24. SIDEWALK TRENCH DRAIN. SEE ARCHITECTURALS
25. TWO-WAY CLEANOUT TO GRADE WITH TOP SET FLUSH WITH TOP OF SIDEWALK. INVERT ELEVATION 4953.84. SEE DETAIL.
26. INSTALL NEW 6" POST INDICATOR VALVE IN 6" FP LINE SERVING NEW BUILDING ADDITION.
27. SIDEWALK SIAMESE CONNECTION TO DRY SPRINKLER SYSTEM, 4" PIPE SERVING NEW BUILDING ADDITION. SEE SHEET P 2.2 FOR ADDITIONAL INFORMATION.
28. SIDEWALK SIAMESE CONNECTION TO SPRINKLER SYSTEM, 4" PIPE SERVING NEW BUILDING ADDITION. SEE SHEET P 2.2 FOR ADDITIONAL INFORMATION.
29. THREE FIRE PROTECTION LINES BURIED VERTICALLY.
30. ASPHALT PAVING CUTTING AND PATCHING AREA.
31. INSTALL PLANTER DRAIN IN EACH PLANTER (6 TOTAL). SEE SHEET P 2.3

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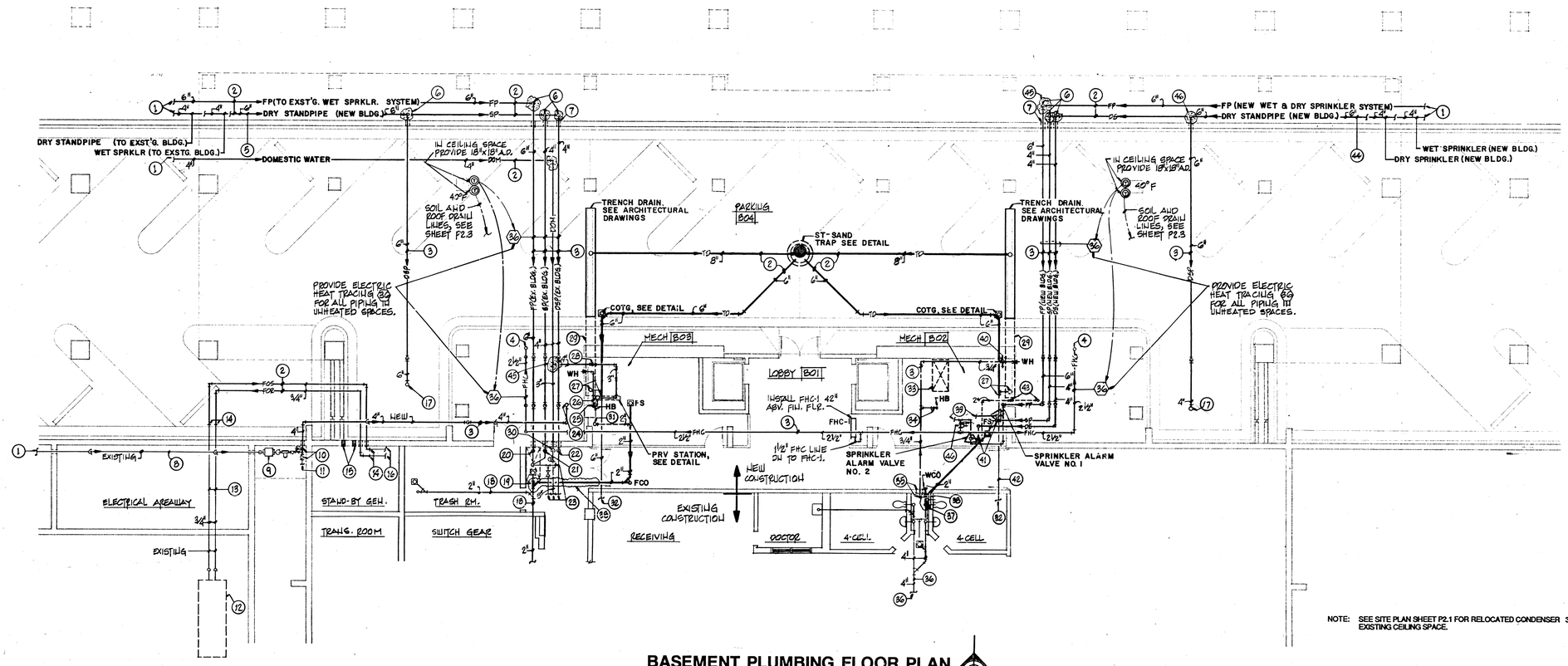
Project Number: 8506
Date: 4/14/86
Checked by: RJB
Drawing Title: SITE UTILITY PLOT PLAN

Drawing: P2.1
Sheet: 8 of 11

KEYED NOTES:

1. SEE SHEET P 2.1 FOR CONTINUATION.
2. PIPING LOCATED BELOW GRADE.
3. PIPING LOCATED IN BASEMENT CEILING SPACE.
4. 2 1/2" FIRE HOSE CABINET LINE FROM SPRINKLER ALARM VALVE NO. 2 TO FIRST FLOOR. SEE SHEET P 2.2 FOR CONTINUATION.
5. FIRE PROTECTION PIPING LOCATED BELOW CONCRETE WALK FROM TOP TO BOTOM: 6" DRY STANDPIPE (NEW BUILDING), 4" WET SPRINKLER SYSTEM LINE (EXISTING BUILDING) AND 4" DRY STANDPIPE (EXISTING BUILDING).
6. FIRE PROTECTION PIPING TO RISE AND TURN INTO BASEMENT CEILING SPACE AS INDICATED.
7. TYPICAL SLEEVE THRU WALL. SEE DETAIL.
8. EXISTING 1 1/2" NATURAL GAS LINE LOCATED IN EXISTING ELECTRICAL AREAWAY.
9. EXISTING NATURAL GAS ROTARY METER WITH EXISTING CAPACITY OF 7082 CFH. CONTRACTOR TO COORDINATE REPLACEMENT OR READJUSTMENT OF EXISTING METER AND PRESSURE REGULATOR WITH THE GAS COMPANY OF NEW MEXICO TO HANDLE NEW CAPACITY REQUIREMENTS OF 9856 CFH @ 7" WATER COLUMN LEAVING PRESSURE. SEE SHEET P 2.1 FOR ADDITIONAL INFORMATION.
10. CONNECT NEW 4" NATURAL GAS TO EXISTING 4" GAS LINE DOWNSTREAM OF 2" DRESSER COUPLING AT APPROXIMATELY THIS POINT. INSTALL NEW PRESSURE REGULATOR AND SHUTOFF VALVE FOR NEW BUILDING AND NEW PRESSURE REEGULATOR AND SHUTOFF VALVE FOR EXISTING BUILDING. VERIFY EXACT LOCATION IN FIELD.
11. EXISTING 4" NATURAL GAS LINE SHALL CONTINUE TO SUPPLY EXISTING BUILDING.
12. EXISTING FUEL OIL STORAGE TANK TO REMAIN IN PLACE UNDISTURBED .
13. EXISTING 3/4" FUEL OIL SUPPLY AND RETURN PIPING BURIED AS INDICATED.
14. CONNECT NEW 3/4" FUEL OIL SUPPLY AND RETURN PIPING AT APPROXIMATELY THIS POINT AND EXTEND AS INDICATED. VERIFY EXACT LOCATION IN FIELD.
15. REMOVE EXISTING PIPING SLEEVES AND PATCH WALL AS DIRECTED BY ARCHITECT.
16. EXISTING 3/4" FUEL OIL SUPPLY AND RETURN LINES CONTINUE TO EXISTING GENERATOR.
17. 6" DRY STANDPIPE RISES TO STAIRWELL ABOVE. SEE SHEET P 2.3 FOR CONTINUATION.
18. EXISTING 2" WASTE LINE BELOW FLOOR.
19. CONNECT NEW 2" WASTE LINE TO EXISTING 2" WASTE LINE AT APPROXIMATELY THIS POINT. VERIFY EXACT LOCATION IN FIELD.
20. CONNECT NEW 6" FIRE PROTECTION LINE TO EXISTING 6" FIRE PROTECTION LINE AT APPROXIMATELY THIS POINT. VERIFY EXACT LOCATION IN FIELD.
21. REMOVE EXISTING WALL SIAMESE CONNECTION TO APPROXIMATELY THIS POINT AND CONNECT NEW 4" LINE. NEW 4" WET SPRINKLER LINE EXTENDS TO OUTSIDE OF BUILDING AS INDICATED.
22. REMOVE EXISTING WALL SIAMESE CONNECTION TO APPROXIMATELY THIS POINT AND CONNECT NEW 4" LINE. NEW 4" DRY STANDPIPE EXTENDS TO OUTSIDE OF BUILDING AS INDICATED. ALSO, SEE SHEET P 2.1
23. EXISTING FIRE PROTECTION PIPING CONTINUES TO SERVE EXISTING BUILDING.
24. 4" NATURAL GAS LINE RISES TO FLOOR ABOVE. SEE SHEET P 2.3 FOR CONTINUATION.
25. 3/4" CW LINE DROPS (WITH GATE VALVE IN RISE) ALONG WALL WITH 3/4" EXTENSION TO WALL HYDRANT (WH) AND HOSE BIBB (HB) BOTH LOCATED 30" ABOVE FINISHED FLOOR.
26. 3" DOMESTIC COLD WATER RISES TO FLOOR ABOVE. SEE SHEET P 2.3 FOR CONTINUATION.
27. EXISTING TRENCH DRAIN. REMOVE DRAIN TO ELBOW AT 6" DRAIN LINE AS INDICATED AND CONNECT NEW 6" DRAIN LINE. VERIFY EXACT LOCATION IN FIELD.
28. 3" DOMESTIC WATER LINE FROM BELOW GRADE SLEEVED THRU FLOOR SLAB. PIPING CONTINUES UP TO PRV STATION AS INDICATED. SEE DETAILS.
29. EXISTING TRENCH DRAIN TO BE REMOVED. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
30. 3" DOMESTIC WATER LINE FROM BELOW CONTINUES WITH NEW CONNECTION TO EXISTING 3" DOMESTIC WATER LINE AT APPROXIMATELY THIS POINT. VERIFY EXACT LOCATION IN FIELD.
31. 2" VENT FROM BELOW FLOOR (HOLD TIGHT TO WALL) CONTINUES TO FLOOR ABOVE. SEE SHEET P 2.3 FOR CONTINUATION.
32. EXISTING 6" TRENCH DRAIN LINE CONTINUES TO EXISTING SUMP.
33. LOCATION OF FIRE PROTECTION COMPRESSOR.
34. 3/4" CW LINE DROPS ALONG WALL (WITH GATE VALVE IN RISE) TO HOSE BIBB (HB) LOCATED 30" ABOVE FINISHED FLOOR.
35. REMOVE EXISTING WALL HYDRANT TO EXISTING POINT OF CONNECTION INSIDE CELL CHASE. CONNECT A NEW 3/4" CW LINE AND EXTEND IN CEILING SPACE TO MECHANICAL ROOM AS INDICATED. VERIFY EXACT POINT OF CONNECTION IN FIELD. SEE ARCHITECTURAL DRAWINGS FOR PATCHING WALL.
36. EXISTING 4" SOIL LINE.
37. CONNECT NEW 2" WASTE LINE TO EXISTING 4" WASTE LINE AT APPROXIMATELY THIS POINT. EXTEND NEW 2" WALL CLEANOUT (WCO) INDICATED. VERIFY EXACT POINT OF CONNECTION IN FIELD.
38. SAW NEAT CUT CONCRETE IN AREA SHOWN FOR INSTALLATION OF NEW WASTE LINES.
40. 3/4" CW LINE DROPS ALONG WALL (WITH GATE VALVE IN RISE) AND EXTENDS TO WALL HYDRANT (WH) LOCATED 30" ABOVE FINISHED FLOOR.
41. FIRE PROTECTION PIPING RISE TO CEILING SPACE AND EXTEND TO SIAMESE FIRE DEPT CONNECTIONS LOCATED OUTSIDE BUILDING AS INDICATED.
42. EXISTING 6" TRENCH DRAIN LINE BELOW FLOOR.
43. 2" VENT FROM BELOW FLOOR OFFSETS AS INDICATED AND CONTINUES TO FLOOR ABOVE. SEE SHEET P 2.3 FOR CONTINUATION.
44. FIRE PROTECTION PIPING LOCATED BELOW CONCRETE WALK FROM TOP TO BOTTOM: 6" DRY STANDPIPE (NEW BUILDING), 4" DRY SPRINKLER SYSTEM (NEW BUILDING BASEMENT ONLY), AND 4" WET SPRINKLER SYSTEM (NEW BUILDING).
45. INSTALL CONCRETE THRUST BLOCKING. SEE DETAIL.
46. INSTALL O. S. & Y. VALVE WITH MONITOR SWITCH ON FIRE PROTECTION LINE TO SERVE FIRE HOSE CABINETS.



BASEMENT PLUMBING FLOOR PLAN

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

NOTE: SEE SITE PLAN SHEET P2.1 FOR RELOCATED CONDENSER 33 AND PIPING IN EXISTING CEILING SPACE.

FIRE PROTECTION SYSTEMS:

GENERAL: ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF NFPA PAMPHLET NO. 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS AND THE BUILDING CODE OF THE CITY OF ALBUQUERQUE, NEW MEXICO. THE CONTRACTOR SHALL SUBMIT COMPLETE DRAWINGS OF THE SPRINKLER SYSTEM TO THE ARCHITECT FOR APPROVAL AFTER THE DRAWINGS HAVE BEEN APPROVED BY THE AUTHORIZED INSURANCE RATING AGENCY. UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR SPECIFIED, ALL MATERIALS AND EQUIPMENT USED IN THE INSTALLATION OF THE SPRINKLER SYSTEM SHALL BE LISTED AS APPROVED BY THE UNDERWRITERS' LABORATORIES, INC. LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS OR THE FACTORY MUTUAL LABORATORIES LIST OF APPROVED EQUIPMENT. FIRE PROTECTION DEVICES AND DEVICES INVOLVING FIRE HAZARD, SHALL BE THE LATEST DESIGN OF THE MANUFACTURER.

DRY PIPE SPRINKLER SYSTEM: THE WORK SHALL CONSIST OF DRY PIPE SPRINKLER SYSTEM FOR THE ENTIRE BASEMENT (UNDER STRUCTURE PARKING AREA) EXCEPT IN ANY ELECTRICAL ROOMS.

WET PIPE SPRINKLER SYSTEM: THE WORK SHALL CONSIST OF WET PIPE SPRINKLER SYSTEM FOR THE ENTIRE FIRST FLOOR INCLUDING CLERESTORIES AND MECHANICAL PENTHOUSE EXCEPT IN ANY ELECTRICAL CLOSETS.

SPRINKLER HEADS (FOR DRY PIPE SPRINKLER SYSTEM): SPRINKLER HEADS SHALL BE FOR DEGREE TEMPERATURE RATING AS REQUIRED BY THE OCCUPANCY. SPRINKLER HEADS INSTALLED IN AREAS WITH CEILINGS SHALL BE CEILING RECESSED PLAIN BRASS TYPE FOR INSTALLATION WITH PIPING CONCEALED ABOVE CEILING (IN SPACE BETWEEN THE FIRST FLOOR SLAB AND CEILING). SPRINKLER HEADS INSTALLED IN AREAS WITH EXPOSED STRUCTURE WITHOUT CEILING SHALL BE UP-RIGHT PLAIN BRASS TYPE FOR INSTALLATION WITH EXPOSED PIPING. PROVIDE AND INSTALL 200° F UP-RIGHT PLAIN BRASS TYPE SPRINKLER HEADS FOR INSTALLATION WITH EXPOSED PIPING IN MECHANICAL ROOMS.

SPRINKLER HEADS (FOR WET PIPE SPRINKLER SYSTEM): SPRINKLER HEADS SHALL BE FOR DEGREE TEMPERATURE RATING AS REQUIRED BY THE OCCUPANCY. SPRINKLER HEADS INSTALLED IN AREAS WITH CEILINGS SHALL BE CEILING RECESSED CHROMIUM-PLATED TYPE FOR INSTALLATION WITH PIPING CONCEALED ABOVE SUSPENDED CEILING. SPRINKLER HEADS INSTALLED IN AREAS WITH EXPOSED STRUCTURE WITHOUT CEILING SHALL BE UP-RIGHT PLAIN BRASS TYPE FOR INSTALLATION WITH EXPOSED PIPING. PROVIDE AND INSTALL 200° F UP-RIGHT PLAIN BRASS TYPE SPRINKLER HEADS FOR INSTALLATION WITH EXPOSED PIPING IN MECHANICAL PENTHOUSE.

SPECIFIC NOTE: ALL SPRINKLER PIPING SUPPORTS AND HANGER RODS SHALL BE ANCHORED TO BOTTOM OF BEAMS. NO ANCHORS SHALL BE PERMITTED TO BE DRIVEN INTO FLOOR SLAB.

NOTE: REFER TO SPECIFICATIONS, DIVISION 15 - MECHANICAL FOR COMPLETE INFORMATION.

BASEMENT: SERVED FROM SPRINKLER ALARM VALVE #2 (DRY PIPE SPRINKLER SYSTEM)

FIRST FLOOR INCLUDING CLERESTORIES AND MECHANICAL PENTHOUSE: SERVED FROM SPRINKLER ALARM VALVE #1 (WET PIPE SPRINKLER SYSTEM)

GENERAL PLUMBING NOTES (APPLICABLE TO ALL PLUMBING SHEETS):

CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEETMETAL CONTRACTOR. REQUIRED RELOCATION OF PIPING FROM POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.

WATER PIPING SHALL NOT BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.

ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS.

ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.

WRITTEN PRIOR APPROVAL REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS, 10 DAYS PRIOR TO BID DATE OF PROJECT. SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

ALL PIPING ABOVE CEILING (HOT WATER, HOT WATER RECIRCULATING AND COLD WATER) SHALL BE INSULATED. SEE SPECIFICATIONS.

ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE PAINTED.

SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

ALL WATER PIPING IN MECHANICAL EQUIPMENT ROOMS SHALL BE INSULATED.

STATE OF NEW MEXICO — JAMES L. JOHNSON — REGISTERED ARCHITECT — No. 5

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Project Number: 8506
Date: 4/14/86
Checked by: RJB JLJ
Drawing Title: BASEMENT PLUMBING FLOOR PLAN

Drawing P2.2 Sheet 4 of 11

KEYED NOTES:

1. 6" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) FROM ABOVE. PIPING TRANSITIONS TO 8" EACH AT ELBOWS TURNING INTO CEILING SPACE OF BASEMENT FLOOR. SEE SHEET P 2.4 FOR CONTINUATION.
2. 4" SOIL LINE FROM SECOND FLOOR TURNS INTO CEILING SPACE OF FIRST FLOOR. SEE SHEET P 2.4 FOR CONTINUATION.
3. 4" SOIL LINE DROPS DOWN IN WALL SPACE TO CEILING SPACE OF BASEMENT. PIPING INTERSECTS WITH 2" WASTE FROM P-5 AND CONTINUES AS INDICATED.
4. 4" SOIL LINE DROPS WITH OFFSET AS SHOWN. SEE SHEET P 2.2 FOR CONTINUATION.
5. 1 1/2" VENT FROM P-5 COUNTERTOP SINK RISES IN WALL TO CEILING SPACE. PIPING OFFSETS AS INDICATED AND RISES WHERE SHOWN TO SECOND FLOOR. SEE SHEET P 2.4 FOR CONTINUATION.
6. 1/2" CW AND HW PIPING DROPS IN WALL AND EXTENDS TO P-5 COUNTERTOP SINK.
7. 3/4" CW DROPS IN WALL AND EXTENDS TO WALL HYDRANT (WH) LOCATED 30" A.F.F.
8. 6" DRY STANDPIPE FROM THIRD FLOOR WITH 2 1/2" FIRE DEPARTMENT CONNECTION VALVE LOCATED 30" ABOVE FINISHED FLOOR. STANDPIPE CONTINUES TO SECOND FLOOR. SEE SHEETS P 2.2 AND P 2.4 FOR CONTINUATION.
9. 3" WATER LINE FROM BASEMENT LEVEL CONTINUES INTO CEILING SPACE AS INDICATED. SEE SHEET P 2.2 FOR CONTINUATION.
10. 4" NATURAL GAS LINE FROM BASEMENT BELOW CONTINUES UP TO SECOND FLOOR. SEE SHEETS P 2.2 AND P 2.4 FOR CONTINUATION.
11. 2 1/2" FIRE HOSE CABINET LINE FROM BASEMENT BELOW WITH 1 1/2" LINE TO RECESSED FIRE HOSE CABINET LOCATED 42" ABOVE FINISHED FLOOR. 2 1/2" FIRE HOSE CABINET LINE CONTINUES UP TO SECOND FLOOR. SEE SHEETS P 2.2 AND P 2.4 FOR CONTINUATION.
12. 2" WASTE LINE FROM P-5 COUNTERTOP SINK ON SECOND FLOOR ROUTED IN CEILING SPACE AS SHOWN.
13. PROVIDE WALL CLEANOUT (WCO) IN DROP OF 4" SOIL LINE. LOCATE CLEANOUT 24" ABOVE FINISHED FLOOR.
14. PIPING LOCATED IN FIRST FLOOR CEILING SPACE.
15. PIPING LOCATED IN BASEMENT CEILING SPACE.
16. INSTALL PLANTER DRAIN IN EACH PLANTER (6 TOTAL). SEE SHEET P 2.1
17. TWO-WAY CLEANOUT TO GRADE. INVERT ELEVATION 4953.84. SEE DETAIL AND SHEET P 2.1.
18. SEE SHEET P 2.1 FOR CONTINUATION.
19. PIPING RISES AND DROPS FOR BEAM. TYPICAL WHERE SHOWN. SEE STRUCTURAL DRAWINGS.

FIRE PROTECTION SYSTEMS:

GENERAL: ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF NFPA PAMPHLET NO. 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS AND THE BUILDING CODE OF THE CITY OF ALBUQUERQUE, NEW MEXICO. THE CONTRACTOR SHALL SUBMIT COMPLETE DRAWINGS OF THE SPRINKLER SYSTEM TO THE ARCHITECT FOR APPROVAL AFTER THE DRAWINGS HAVE BEEN APPROVED BY THE AUTHORIZED INSURANCE RATING AGENCY. UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR SPECIFIED, ALL MATERIALS AND EQUIPMENT USED IN THE INSTALLATION OF THE SPRINKLER SYSTEM SHALL BE LISTED AS APPROVED BY THE UNDERWRITERS' LABORATORIES, INC. LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS OR THE FACTORY MUTUAL LABORATORIES LIST OF APPROVED EQUIPMENT. FIRE PROTECTION DEVICES AND DEVICES INVOLVING FIRE HAZARD, SHALL BE THE LATEST DESIGN OF THE MANUFACTURER.

DRY PIPE SPRINKLER SYSTEM: THE WORK SHALL CONSIST OF DRY PIPE SPRINKLER SYSTEM FOR THE ENTIRE BASEMENT (UNDER STRUCTURE - PARKING AREA) EXCEPT IN ANY ELECTRICAL ROOMS.

WET PIPE SPRINKLER SYSTEM: THE WORK SHALL CONSIST OF WET PIPE SPRINKLER SYSTEM FOR THE ENTIRE FIRST FLOOR INCLUDING CLERESTORIES AND MECHANICAL PENTHOUSE EXCEPT IN ANY ELECTRICAL CLOSETS.

SPRINKLER HEADS (FOR DRY PIPE SPRINKLER SYSTEM): SPRINKLER HEADS SHALL BE FOR DEGREE TEMPERATURE RATING AS REQUIRED BY THE OCCUPANCY. SPRINKLER HEADS INSTALLED IN AREAS WITH CEILINGS SHALL BE CEILING RECESSED PLAIN BRASS TYPE FOR INSTALLATION WITH PIPING CONCEALED ABOVE CEILING (IN SPACE BETWEEN THE FIRST FLOOR SLAB AND CEILING). SPRINKLER HEADS INSTALLED IN AREAS WITH EXPOSED STRUCTURE WITHOUT CEILING SHALL BE UP-RIGHT PLAIN BRASS TYPE FOR INSTALLATION WITH EXPOSED PIPING. PROVIDE AND INSTALL 200° F UP-RIGHT PLAIN BRASS TYPE SPRINKLER HEADS FOR INSTALLATION WITH EXPOSED PIPING IN MECHANICAL ROOMS.

SPRINKLER HEADS (FOR WET PIPE SPRINKLER SYSTEM): SPRINKLER HEADS SHALL BE FOR DEGREE TEMPERATURE RATING AS REQUIRED BY THE OCCUPANCY. SPRINKLER HEADS INSTALLED IN AREAS WITH CEILINGS SHALL BE CEILING RECESSED CHROMIUM-PLATED TYPE FOR INSTALLATION WITH PIPING CONCEALED ABOVE SUSPENDED CEILING. SPRINKLER HEADS INSTALLED IN AREAS WITH EXPOSED STRUCTURE WITHOUT CEILING SHALL BE UP-RIGHT PLAIN BRASS TYPE FOR INSTALLATION WITH EXPOSED PIPING. PROVIDE AND INSTALL 200° F UP-RIGHT PLAIN BRASS TYPE SPRINKLER HEADS FOR INSTALLATION WITH EXPOSED PIPING IN MECHANICAL PENTHOUSE.

SPECIFIC NOTE: ALL SPRINKLER PIPING SUPPORTS AND HANGER RODS SHALL BE ANCHORED TO BOTTOM OF BEAMS. NO ANCHORS SHALL BE PERMITTED TO BE DRIVEN INTO FLOOR SLAB.

NOTE: REFER TO SPECIFICATIONS, DIVISION 15 - MECHANICAL FOR COMPLETE INFORMATION.

BASEMENT: SERVED FROM SPRINKLER ALARM VALVE #2 (DRY PIPE SPRINKLER SYSTEM)

FIRST FLOOR INCLUDING CLERESTORIES AND MECHANICAL PENTHOUSE: SERVED FROM SPRINKLER ALARM VALVE #1 (WET PIPE SPRINKLER SYSTEM)

GENERAL PLUMBING NOTES (APPLICABLE TO ALL PLUMBING SHEETS):

CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEETMETAL CONTRACTOR. REQUIRED RELOCATION OF PIPING FROM POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.

WATER PIPING SHALL NOT BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.

ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS.

ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.

WRITTEN PRIOR APPROVAL REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS, 10 DAYS PRIOR TO BID DATE OF PROJECT. SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

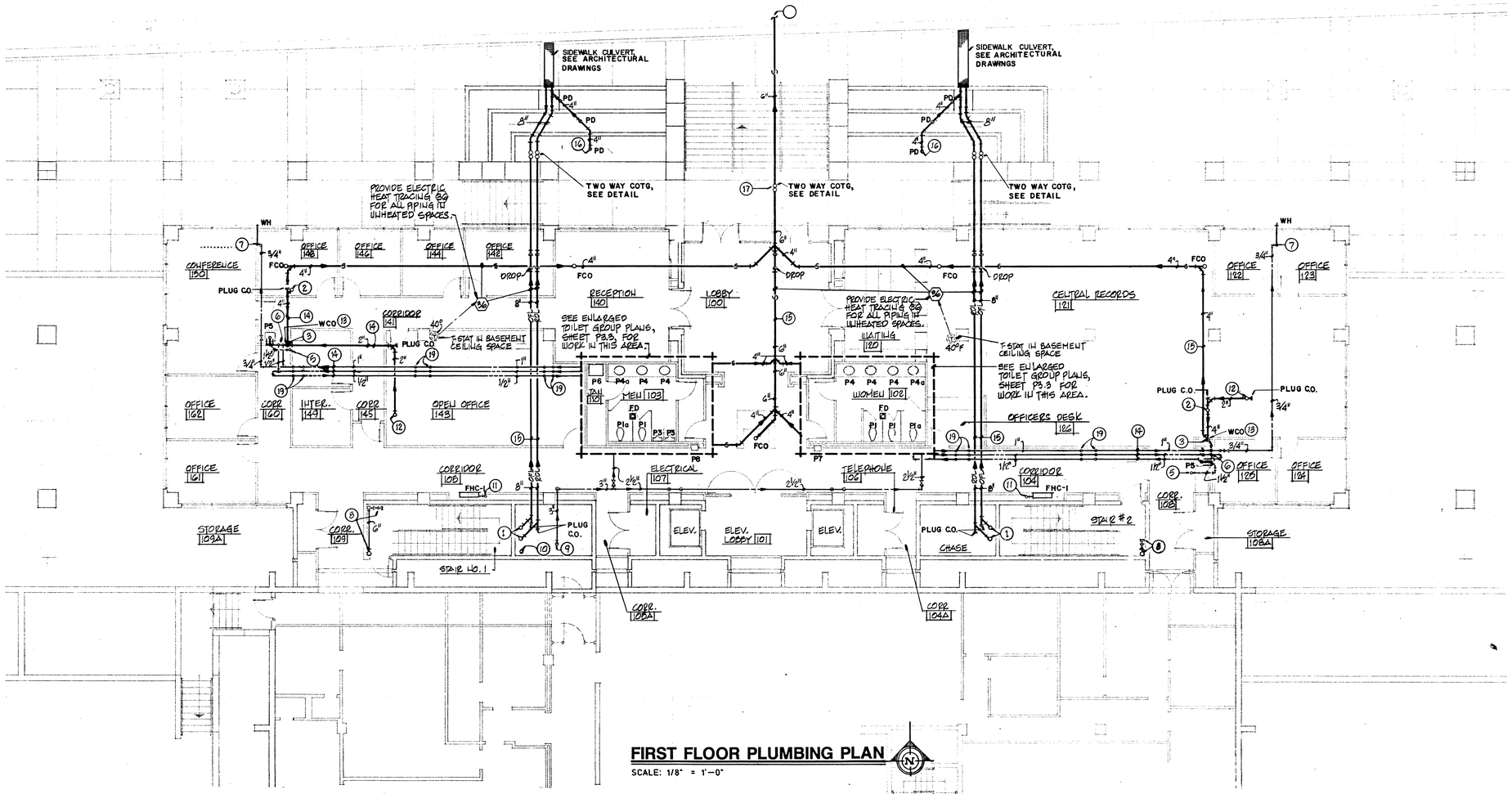
ALL PIPING ABOVE CEILING (HOT WATER, HOT WATER RECIRCULATING AND COLD WATER) SHALL BE INSULATED. SEE SPECIFICATIONS.

ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE PAINTED.

SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

ALL WATER PIPING IN MECHANICAL EQUIPMENT ROOMS SHALL BE INSULATED.



FIRST FLOOR PLUMBING PLAN

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

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Project Number: 8506
Date: 4/14/86
Checked by: RJB
JLJ
Drawing Title: FIRST FLOOR PLUMBING PLAN

Drawing: P2.3
Sheet: 85

KEYED NOTES:

1. 3" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) FROM ABOVE INTO CEILING SPACE OF SECOND FLOOR. SEE SHEET P 2.5 FOR CONTINUATION.
2. 6" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) FROM ABOVE (HOLD TIGHT TO CHASE WALL). PIPING CONNECTS TO 3" LEADERS FROM SECOND FLOOR CEILING SPACE. 6" LEADERS CONTINUE DOWN TO FIRST FLOOR. SEE SHEETS P 2.3 AND P 2.5 FOR CONTINUATION.
3. 4" SOIL LINE FROM THIRD FLOOR CONTINUES DOWN IN WALL SPACE TO FIRST FLOOR. SEE SHEETS P 2.3 AND P 2.5 FOR CONTINUATION.
4. 4" SOIL LINE FROM THIRD FLOOR CONTINUES WITH OFFSET IN CEILING SPACE AND DROPPING IN WALL SPACE TO FIRST FLOOR. SEE SHEETS P 2.3 AND P 2.5 FOR CONTINUATION.
5. 1 1/2" VENT FROM FIRST FLOOR RISES TO CEILING SPACE. 1 1/2" VENT OFFSETS AS INDICATED AND CONTINUES UP TO THIRD FLOOR. SEE SHEETS P 2.3 AND P 2.5 FOR CONTINUATION.
6. 4" NATURAL GAS PIPING FROM BELOW CONTINUES UP TO THIRD FLOOR. SEE SHEETS P 2.3 AND P 2.5 FOR CONTINUATION.
7. 6" DRY STANDPIPE FROM FIRST FLOOR WITH 2 1/2" FIRE DEPARTMENT CONNECTION VALVE LOCATED 30" ABOVE FINISHED FLOOR. STANDPIPE CONTINUES UP TO THIRD FLOOR. SEE SHEETS P 2.4 AND P 2.5 FOR CONTINUATION.
8. PIPING LOCATED AS HIGH AS POSSIBLE IN CEILING SPACE.
9. 1/2" CW AND HW PIPING DROPS IN WALL AND EXTENDS TO P-5 COUNTERTOP SINK.
10. 1 1/2" VENT FROM P-5 COUNTERTOP SINK RISES IN WALL TO CEILING SPACE. PIPING OFFSETS AS INDICATED AND RISES UP TO THE THIRD FLOOR. 1 1/2" WASTE DROPS TO FIRST FLOOR. SEE SHEETS P 2.3 AND P 2.5 FOR CONTINUATION.
11. 2" WASTE FROM P-5 COUNTERTOP SINK LOCATED ON THIRD FLOOR CONTINUES IN CEILING SPACE AS SHOWN.
12. 2 1/2" FIRE HOSE CABINET LINE FROM FIRST FLOOR BELOW WITH 1 1/2" LINE TO RECESSED FIRE HOSE CABINET (FHC-1) LOCATED 42" ABOVE FINISHED FLOOR. 2" FIRE HOSE CABINET LINE CONTINUES UP TO THIRD FLOOR. SEE SHEETS P 2.3 AND P 2.5 FOR CONTINUATION.
13. PIPING LOCATED IN CEILING SPACE AS HIGH AS POSSIBLE.
14. 2 1/2" FIRE HOSE CABINET LINE FROM FIRST FLOOR BELOW WITH 1 1/2" LINE TO RECESSED FIRE HOSE CABINET (FHC-1) LOCATED 42" ABOVE FINISHED FLOOR. 2 1/2" FIRE HOSE CABINET LINE CONTINUES UP TO THIRD FLOOR. SEE SHEETS P 2.3 AND P 2.5 FOR CONTINUATION.
15. PIPING RISES AND DROPS FOR BEAM. TYPICAL WHERE SHOWN. SEE STRUCTURAL DRAWINGS.

GENERAL PLUMBING NOTES (APPLICABLE TO ALL PLUMBING SHEETS):

CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEETMETAL CONTRACTOR. REQUIRED RELOCATION OF PIPING FROM POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.

WATER PIPING SHALL NOT BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.

ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS.

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WRITTEN PRIOR APPROVAL REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS; 10 DAYS PRIOR TO BID DATE OF PROJECT. SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

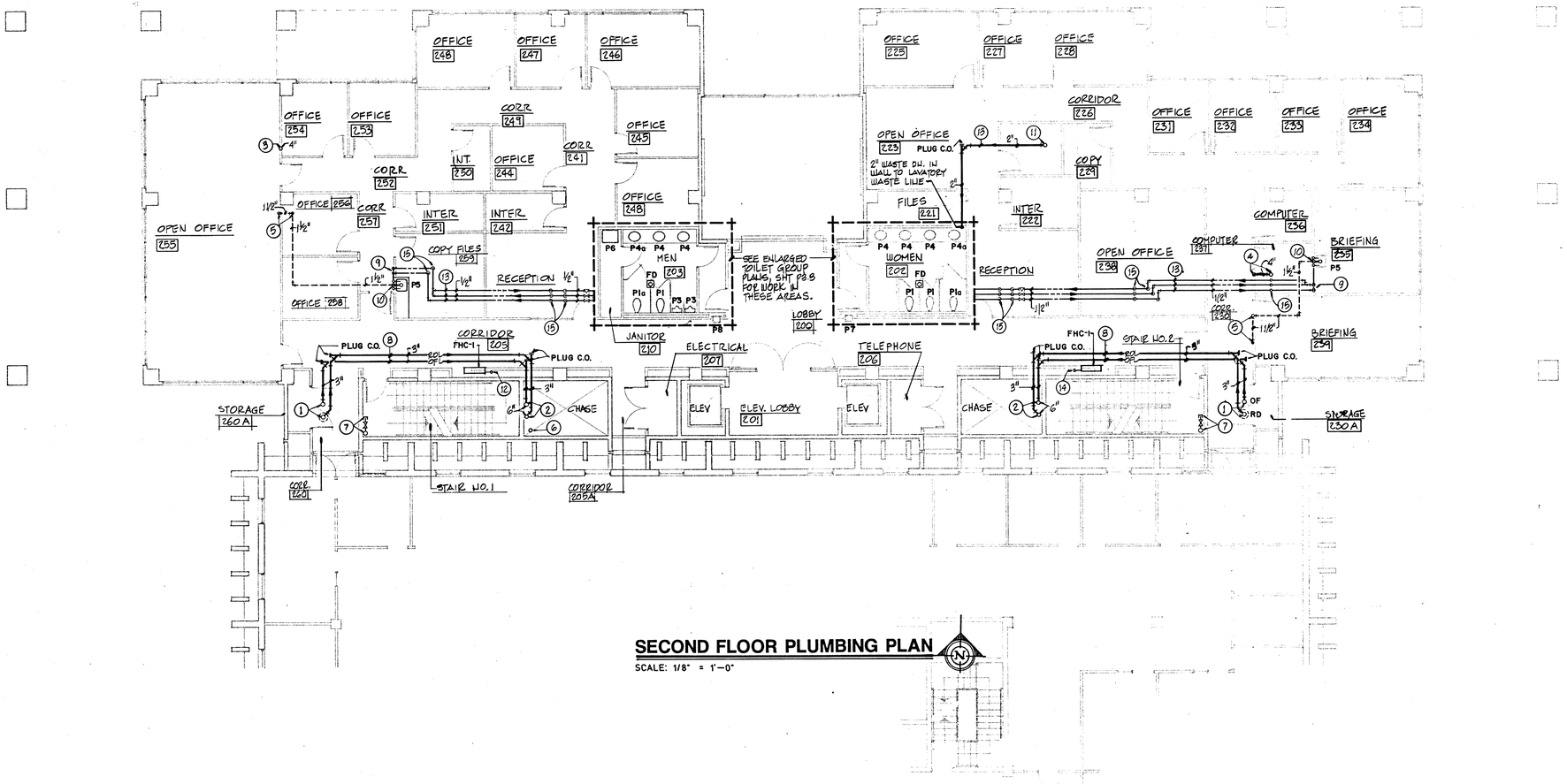
ALL PIPING ABOVE CEILING (HOT WATER, HOT WATER RECIRCULATING AND COLD WATER) SHALL BE INSULATED. SEE SPECIFICATIONS.

ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE PAINTED.

SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

ALL WATER PIPING IN MECHANICAL EQUIPMENT ROOMS SHALL BE INSULATED.



SECOND FLOOR PLUMBING PLAN

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

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Project Number 8506
Date 4/14/86
Checked by RJB
JLJ
Drawing Title SECOND FLOOR PLUMBING PLAN

Drawing P2.4

[illegible]YED NOTES:

1. 6" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) FROM ABOVE. PIPING CONTINUES IN CEILING SPACE TO MECHANICAL CHASE.
2. 4" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) FROM ABOVE. PIPING TRANSITIONS TO 6" EACH AND CONNECTS TO 6" AND/OR 8" LEADERS FROM THIRD FLOOR CEILING SPACE. PIPING CONTINUES DOWN TO SECOND FLOOR WITH OFFSET IN CHASE.
3. 1/2" CW AND HW PIPING DROPS IN WALL AND EXTENDS TO P-5 COUNTERTOP SINK.
4. 1 1/2" VENT IN WALL RISES TO CEILING SPACE AND CONTINUES AS INDICATED. 2" WASTE LINE FROM P-5 CONTINUES TO 4" SOIL LINE.
5. 1 1/2" VENT FROM SECOND FLOOR RISES IN WALL SPACE. 1 1/2" VENT CONNECTS TO 1 1/2" VENT FROM P-5 AND CONTINUES UP TO FOURTH FLOOR. SEE SHEETS P 2.4 AND P 2.6 FOR CONTINUATION.
6. 1 1/2" VENT FROM SECOND FLOOR RISES IN WALL TO CEILING SPACE, OFFSETS AS SHOWN, THEN CONTINUES UP TO FOURTH FLOOR. SEE SHEETS P 2.4 AND P 2.6 FOR CONTINUATION.
7. 4" SOIL LINE DOWN FROM FOURTH FLOOR OFFSETS INTO CEILING SPACE AND CONTINUES AS INDICATED. SEE SHEET P 2.6 FOR CONTINUATION.
8. 4" SOIL LINE DROPS IN WALL SPACE TO SECOND FLOOR. SEE SHEET P 2.4 FOR CONTINUATION.
9. 4" SOIL LINE DOWN FROM FOURTH FLOOR OFFSETS INTO CEILING SPACE AND CONTINUES AS INDICATED. SEE SHEET P 2.6 FOR CONTINUATION.
10. 4" SOIL LINE DROPS IN WALL AND CONNECTS TO 2" WASTE LINE FROM P-5 AND CONTINUES TO SECOND FLOOR. SEE SHEET P 2.4 FOR CONTINUATION.
11. 4" NATURAL GAS PIPING UP FROM BELOW OFFSETS IN CHASE AND CONTINUES ABOVE. SEE SHEETS P 2.4 AND P 2.6 FOR CONTINUATION.
12. 6" DRY STANDPIPE UP FROM THIRD FLOOR WITH 2 1/2" FIRE DEPARTMENT CONNECTION VALVE LOCATED 30" ABOVE FINISHED FLOOR. STANDPIPE CONTINUES UP TO FOURTH FLOOR. SEE SHEETS P 2.4 AND P 2.6 FOR CONTINUATION.
13. 3" ROOF DRAIN (RD) AND OVERFLOW (OF) DOWN CEILING TO CEILING SPACE OF SECOND FLOOR. SEE SHEET P 2.4 FOR CONTINUATION.
14. PIPING LOCATED AS HIGH AS POSSIBLE IN CEILING SPACE.
15. 2 1/2" FIRE HOSE CABINET LINE FROM SECOND FLOOR BELOW WITH 1 1/2" LINE TO RECESSED FIRE HOSE CABINET (FHC-1) LOCATED 42" ABOVE FINISHED FLOOR. 2" FIRE HOSE CABINET LINE CONTINUES UP TO THIRD FLOOR. SEE SHEETS P 2.1 AND P 2.6 FOR CONTINUATION.
16. PIPING RISES AND DROPS FOR BEAM. TYPICAL WHERE SHOWN. SEE STRUCTURAL DRAWINGS.

GENERAL PLUMBING NOTES (APPLICABLE TO ALL PLUMBING SHEETS):

CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEETMETAL CONTRACTOR. REQUIRED RELOCATION OF PIPING FROM POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.

WATER PIPING SHALL NOT BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.

ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS.

ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.

WRITTEN PRIOR APPROVAL REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS, 10 DAYS PRIOR TO BID DATE OF PROJECT. SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

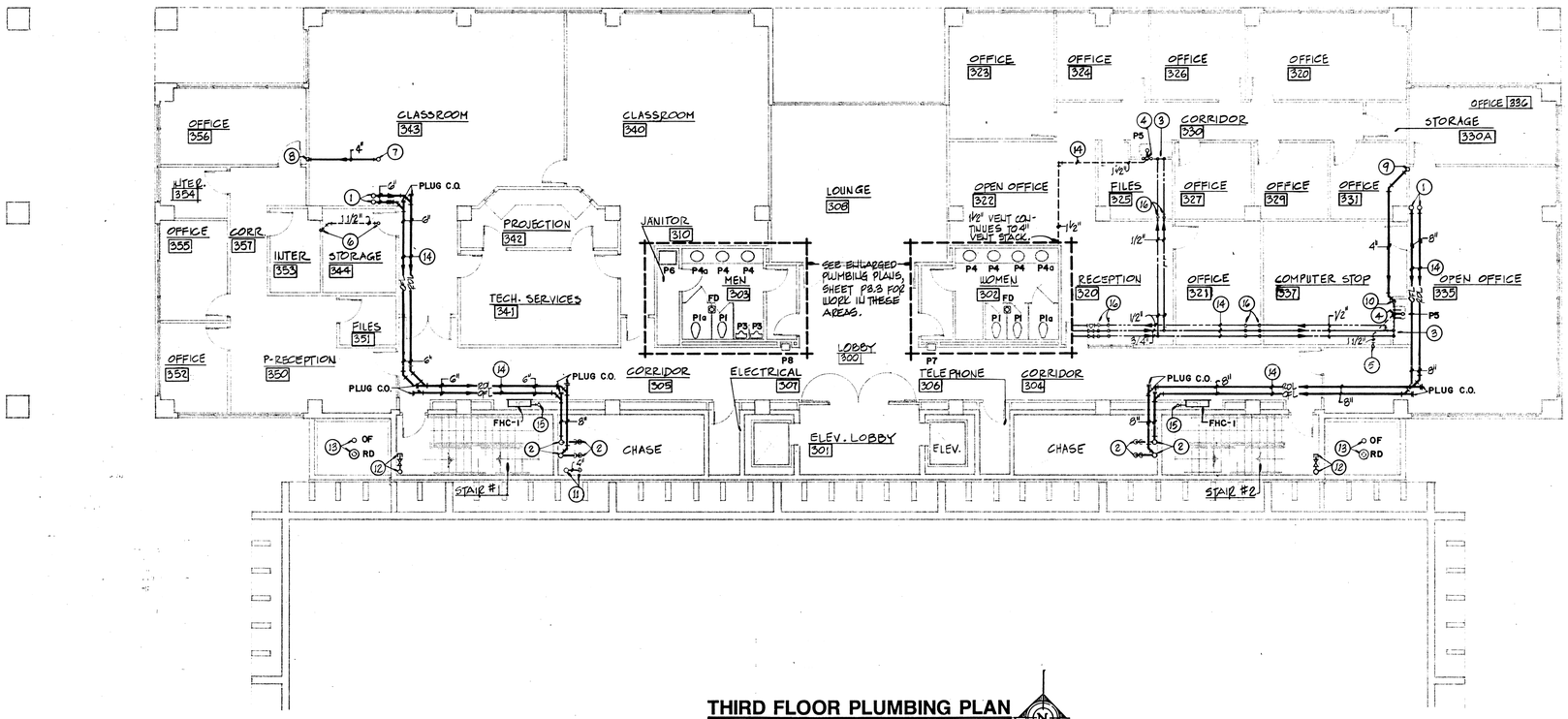
ALL PIPING ABOVE CEILING (HOT WATER, HOT WATER RECIRCULATING AND COLD WATER) SHALL BE INSULATED. SEE SPECIFICATIONS.

ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE PAINTED.

SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

ALL WATER PIPING IN MECHANICAL EQUIPMENT ROOMS SHALL BE INSULATED.



THIRD FLOOR PLUMBING PLAN

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

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Project Number: 8506
Date: 4/14/86
Checked by: RJB
JLJ
Drawing Title: THIRD FLOOR PLUMBING PLAN

Drawing P2.5
Sheet 5 of 11

KEYED NOTES:

1. 6" AND/OR 8" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) DOWN FROM ABOVE. PIPING CONTINUES IN CEILING SPACE AND DROPS DOWN AS INDICATED TO THIRD FLOOR. SEE SHEET P 2.5 FOR CONTINUATION.
2. 4" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) FROM ABOVE CONTINUES DOWN TO THIRD FLOOR. SEE SHEETS P 2.5 AND P 2.7 FOR CONTINUATION.
3. 1/2" CW AND HW PIPING DROPS IN WALL AND EXTENDS TO P-5 COUNTERTOP SINK.
4. 1 1/2" VENT LOCATED IN WALL CONTINUES AND INTERSECTS WITH 1 1/2" VENT. 2" WASTE LINE FROM P-5 CONTINUES TO CONNECT TO 4" SOIL LINE.
5. 1 1/2" VENT LOCATED IN WALL RISES TO CEILING SPACE. VENT PIPING OFFSETS AT CEILING SPACE AND ROUTED AS SHOWN. 2" WASTE LINE FROM P-5 ROUTED IN WALL CONNECTS TO 4" SOIL LINE.
6. 1 1/2" VENT UP FROM THIRD FLOOR INTO WALL SPACE RISING TO CEILING SPACE AND ROUTED AS SHOWN.
7. 1 1/2" VENT RISES UP TO FOURTH FLOOR. SEE SHEET P 2.7 FOR CONTINUATION.
8. 1 1/2" VENT FROM THIRD FLOOR RISES UP IN WALL SPACE TO CEILING SPACE. PIPING CONTINUES AS INDICATED.
9. 1 1/2" VENT UP TO FIFTH FLOOR. SEE SHEET P 2.7 FOR CONTINUATION.
10. 4" SOIL LINE DOWN FROM TOILET GROUP ON FIFTH FLOOR, AND ROUTED IN FOURTH FLOOR CEILING SPACE AS SHOWN.
11. 2" WASTE LINE DOWN FROM P-5 ON FIFTH FLOOR, AND ROUTED IN FOURTH FLOOR CEILING AS SHOWN.
12. 4" SOIL LINE DROPS DOWN IN WALL CONNECTING 2" WASTE FROM P-5 AND CONTINUES DOWN TO THIRD FLOOR. SEE SHEET P 2.5 FOR CONTINUATION.
13. 6" DRY STANDPIPE FROM THIRD FLOOR WITH 2 1/2" FIRE DEPARTMENT CONNECTION VALVE LOCATED 30" ABOVE FINISHED FLOOR. STANDPIPE CONTINUES UP TO FIFTH FLOOR. SEE SHEETS P 2.5 AND P 2.7 FOR CONTINUATION.
14. 4" NATURAL GAS PIPING FROM BELOW. PIPING CONTINUES UP TO FIFTH FLOOR. SEE SHEETS P 2.5 AND P 2.7 FOR CONTINUATION.
15. PIPING LOCATED AS HIGH AS POSSIBLE IN CEILING SPACE.
16. 2" FIRE HOSE CABINET LINE FROM THIRD FLOOR BELOW WITH 1 1/2" LINE TO RECESSED FIRE HOSE CABINET (FHC-1) LOCATED 42" ABOVE FINISHED FLOOR. 1 1/2" FIRE HOSE CABINET LINE CONTINUES UP TO FIFTH FLOOR. SEE SHEETS P 2.5 AND P 2.7 FOR CONTINUATION.
17. 2" FIRE HOSE CABINET LINE FROM THIRD FLOOR BELOW WITH 1 1/2" LINE TO RECESSED FIRE HOSE CABINET LINE CONTINUES UP TO FIFTH FLOOR. SEE SHEETS P 2.5 AND P 2.7 FOR CONTINUATION.
18. PIPING RISES AND DROPS FOR BEAM. TYPICAL WHERE SHOWN. SEE STRUCTURAL DRAWINGS.

GENERAL PLUMBING NOTES (APPLICABLE TO ALL PLUMBING SHEETS):

CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEETMETAL CONTRACTOR. REQUIRED RELOCATION OF PIPING FROM POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.

WATER PIPING SHALL NOT BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.

ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS.

ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.

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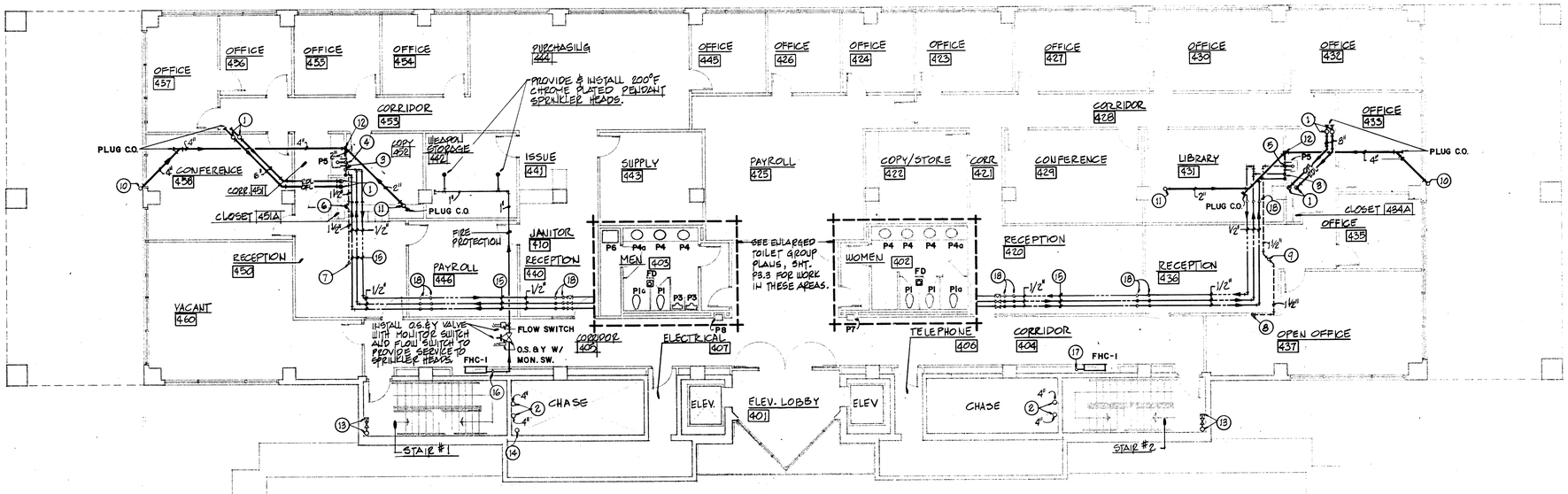
ALL PIPING ABOVE CEILING (HOT WATER, HOT WATER RECIRCULATING AND COLD WATER) SHALL BE INSULATED. SEE SPECIFICATIONS.

ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE PAINTED.

SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

ALL WATER PIPING IN MECHANICAL EQUIPMENT ROOMS SHALL BE INSULATED.



FOURTH FLOOR PLUMBING PLAN

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

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Project Number
8506
Date
4/14/86
Checked by RJB
JLJ
Drawing Title
FOURTH FLOOR PLUMBING PLAN

Drawing
P2.6
Sheet

KEYED NOTES:

1. 4" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) DOWN FROM ABOVE. LEADERS ROUTED IN CEILING SPACE OF FIFTH FLOOR AS SHOWN. SEE SHEET P 2.8 FOR CONTINUATION.
2. PIPING RISES AND DROPS FOR BEAM. TYPICAL WHERE SHOWN. SEE STRUCTURAL DRAWINGS.
3. 6" DRY STANDPIPE UP TO SIAMESE ROOF MANIFOLD.
4. 3" ROOF DRAIN LEADER (RDL) DOWN FROM ABOVE INTO CHASE. LEADER ROUTED IN CHASE AS SHOWN . SEE SHEET P 2.8 FOR CONTINUATION.
5. DROP 6" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) DOWN IN CLOSET. LEADERS CONTINUE DOWN TO FOURTH FLOOR. SEE SHEET P 2.6 FOR CONTINUATION.
6. DROP 6" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) DOWN IN CHASE. SEE SHEET P 2.6 FOR CONTINUATION.
7. 1/2" CW AND HW LINES DROP IN WALL AND EXTENDS TO COUNTERTOP SINK.
8. 1 1/2" VENT RISES IN WALL AND OFFSETS IN CEILING SPACE . 2" WASTE LINE FROM P-S DROPS DOWN TO FOURTH FLOOR. SEE SHEETS P 2.6 AND 2.8 FOR CONTINUATION.
9. 1 1/2" VENT LINE UP FROM FOURTH FLOOR INTO WALL SPACE. SEE SHEET P 2.6 FOR CONTINUATION.
10. 6" ROOF DRAIN AND OVERFLOW LEADERS (RDL & OFL) DOWN FROM ABOVE. LEADERS ROUTED IN CEILING SPACE OF FIFTH FLOOR AS SHOWN. SEE SHEET P 2.8 FOR CONTINUATION.
11. 2" VENT THRU ROOF (VTR). SEE DETAIL AND SHEET P 2.8 FOR CONTINUATION .
12. 6" DRY STANDPIPE FROM FOURTH FLOOR WITH 2 1/2" FIRE DEPARTMENT CONNECTION VALVE LOCATED 30" ABOVE FINISHED FLOOR. SEE SHEET P 2.6 FOR CONTINUATION.
13. 4" GAS PIPING FROM BELOW. PIPING OFFSETS AS INDICATED AND CONTINUES TO MECHANICAL PENTHOUSE. SEE SHEETS P 2.6 AND P 2.8 FOR CONTINUATION.
14. 4" VENT STACK FROM BELOW CONTINUES TO MECHANICAL PENTHOUSE. SEE SHEETS P 2.8 AND P 3.1 FOR CONTINUATION.
15. FLOW SWITCH. SEE CONTROL DIAGRAMS ON SHEET M 6.1.
16. 3/4" NON-POTABLE WATER (NPW) RISES UP THRU ROOF AND EXTENDS TO SUPPLY 29 WATER TREATMENT. ADDITIVE ALTERNATE.
17. PIPING LOCATED AS HIGH AS POSSIBLE IN CEILING SPACE.
18. 1 1/2" FIRE HOSE CABINET LINE FROM FOURTH FLOOR TO RECESSED FIRE HOSE CABINET (FHC-1) LOCATED 42" ABOVE FINISHED FLOOR. SEE SHEET P 2.6 FOR CONTINUATION.
19. 2" FIRE HOSE CABINET LINE FROM FOURTH FLOOR TO RECESSED FIRE HOSE CABINET (FHC-1) LOCATED 42" ABOVE FINISHED FLOOR. 1 1/2" FIRE HOSE CABINET LINE CONTINUES ABOVE TO MECHANICAL PENTHOUSE. SEE SHEETS P 2.6 AND P 2.8 FOR CONTINUATION.

GENERAL PLUMBING NOTES (APPLICABLE TO ALL PLUMBING SHEETS):

CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEETMETAL CONTRACTOR. REQUIRED RELOCATION OF PIPING FROM POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.

WATER PIPING SHALL NOT BE LOCATED IN OUTSIDE WALLS; UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.

ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS.

ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.

WRITTEN PRIOR APPROVAL REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS, 10 DAYS PRIOR TO BID DATE OF PROJECT. SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

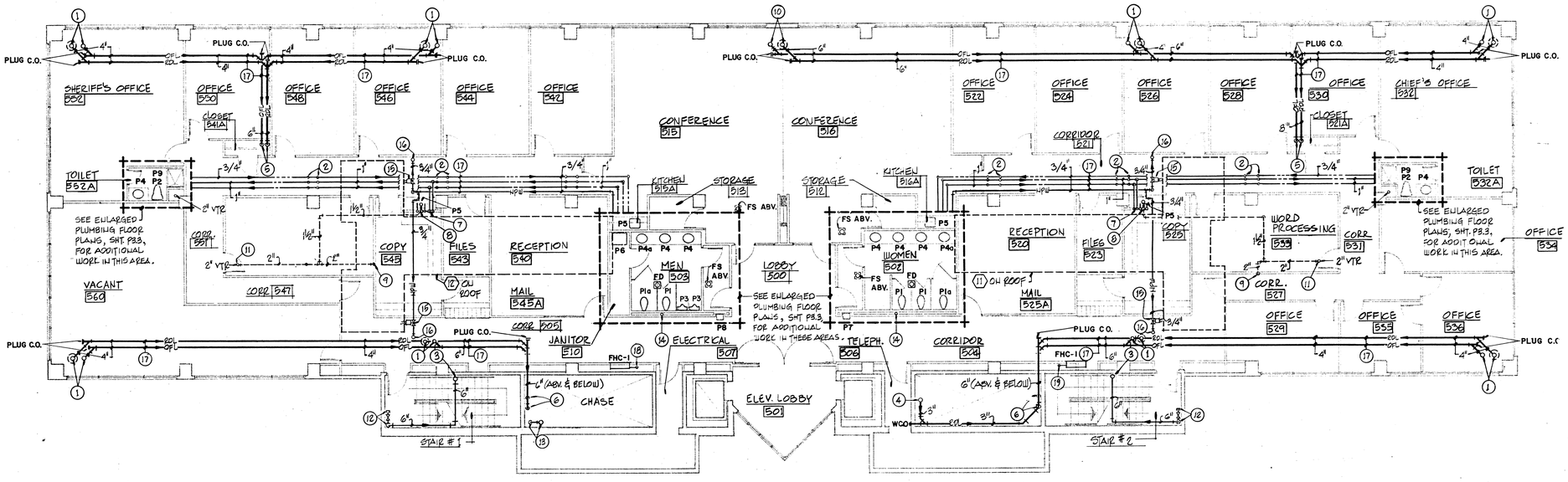
ALL PIPING ABOVE CEILING (HOT WATER, HOT WATER RECIRCULATING AND COLD WATER) SHALL BE INSULATED. SEE SPECIFICATIONS.

ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE PAINTED.

SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

ALL WATER PIPING IN MECHANICAL EQUIPMENT ROOMS SHALL BE INSULATED.



FIFTH FLOOR PLUMBING PLAN

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

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Project Number 8506
Date 4/14/86
Checked by RTB
Drawing Title JLJ
FIFTH FLOOR PLUMBING PLAN

Drawing P2.7
Sheet 37 of 111

KEYED NOTES:

1. 4" ROOF DRAIN (RD) AND 4" OVERFLOW (OF).
2. 3" ROOF DRAIN (RD) WITH 3" ROOF DRAIN LEADER (RDL) LOCATED IN CEILING SPACE BELOW DROPS ALONG WALL TO DOWNSPOUT NOZZLE (DSN) DISCHARGING ONTO LOWER ROOF AS INDICATED.
3. BACK FLOW PREVENTER INSTALLED AS HIGH AS POSSIBLE.
4. 3" ROOF DRAIN LEADER (RDL) FROM ROOF DRAIN (RD) CONTINUES AS HIGH AS POSSIBLE TO CHASE AREA AS INDICATED.
5. DROP 3" ROOF DRAIN LEADER (RDL) DOWN INTO CHASE. SEE SHEET P 2.7 FOR CONTINUATION.
6. 3/4" NON-POTABLE WATER (NPW) FROM 5TH FLOOR CEILING SPACE CONTINUES TO SUPPLY 29 WATER TREATMENT. ADDITIVE ALTERNATE.
7. 4" NATURAL GAS PIPING UP FROM BELOW. SEE SHEET P 2.7 FOR CONTINUATION.
8. 4" VENT STACK UP FROM 5TH FLOOR OFFSETS AND CONTINUES TO VENT THRU ROOF (VTR).
9. 1" NON-POTABLE WATER MAKE-UP EXTENDS TO SERVE MECHANICAL SYSTEM. SEE SHEET M 2.7 FOR CONTINUATION.
10. 2 1/2" CW, 2" HW, AND 3/4" HW RECIRCULATING PIPING RISERS TO AND FROM 5TH FLOOR. SEE SHEET P 2.7 FOR CONTINUATION.
11. 2" HW AND 3/4" HW RECIRCULATING PIPING RISERS TO AND FROM 5TH FLOOR. SEE SHEET P 2.7 FOR CONTINUATION.
12. 1" NATURAL GAS LINE DROPS ALONG WALL FROM MAIN AND CONTINUES TO 6 UNIT HEATER, ROUGH-IN AND CONNECT AS REQUIRED. SEE SHEET M 2.7 AND MECHANICAL DETAILS.
13. 4" NATURAL GAS LINE DROPS ALONG WALL FROM MAIN AND CONTINUES TO 1 BOILER, ROUGH-IN AND CONNECT AS REQUIRED. SEE SHEET M 2.7.
14. 2" GAS LINE DROPS ALONG WALL AND CONTINUES TO HOT WATER HEATER (HWH), ROUGH-IN AND CONNECT AS REQUIRED. SEE DETAIL.
15. LOCATE PIPING HIGH AS POSSIBLE IN CEILING SPACE.
16. 6" DRY STANDPIPE UP FROM BELOW TO SIAMESE FIRE DEPT. CONNECTION ROOF MANIFOLD.
17. ROOF MANIFOLD.
18. 3/4" NON-POTABLE WATER (NPW) DROPS ALONG WALL TO HOSE BIBB (HB) LOCATED 30" ABOVE FINISHED FLOOR.
19. 3" SOIL LINE FROM FLOOR SINK (FS) LOCATED IN FIFTH FLOOR CEILING SPACE DROPS IN WALL SPACE OF TOILET ROOM. SEE SHEETS P 2.7 AND P 3.3.
20. 2" VENT FROM FIFTH FLOOR BELOW RISES ALONG WALL AND OFFSETS TO VENT THRU ROOF (VTR).
21. 4" ROOF DRAIN LEADER (RDL) FROM ROOF DRAIN (RD) DROPS ALONG WALL TO DOWNSPOUT NOZZLE (DSN) DISCHARGING ONTO ROOF AS INDICATED.
22. 1 1/2" FIRE HOSE CABINET LINE RISES UP FROM FIFTH FLOOR BELOW AND TURNS INTO MECHANICAL PENTHOUSE AND EXTENDS TO SURFACE MOUNTED FIRE HOSE CABINET (FHC-2) LOCATED 42" ABOVE FINISHED FLOOR.
23. 6" ROOF DRAIN AND 6" OVERFLOW.

GENERAL PLUMBING NOTES (APPLICABLE TO ALL PLUMBING SHEETS):

CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEETMETAL CONTRACTOR. REQUIRED RELOCATION OF PIPING FROM POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.

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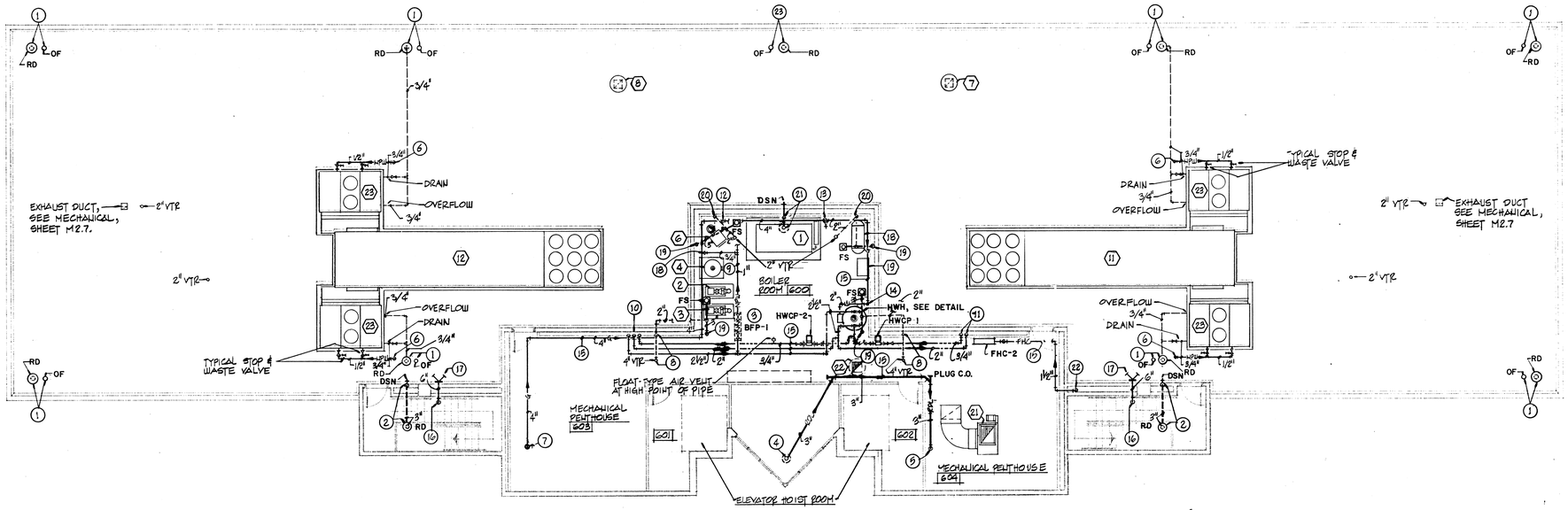
ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE PAINTED.

SEE ARCHITECTURAL DRAWINGS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT THAT REQUIRES PIPING CONNECTIONS, ETC.

ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

ALL WATER PIPING IN MECHANICAL EQUIPMENT ROOMS SHALL BE INSULATED.



PENTHOUSE ROOF PLAN – PLUMBING

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

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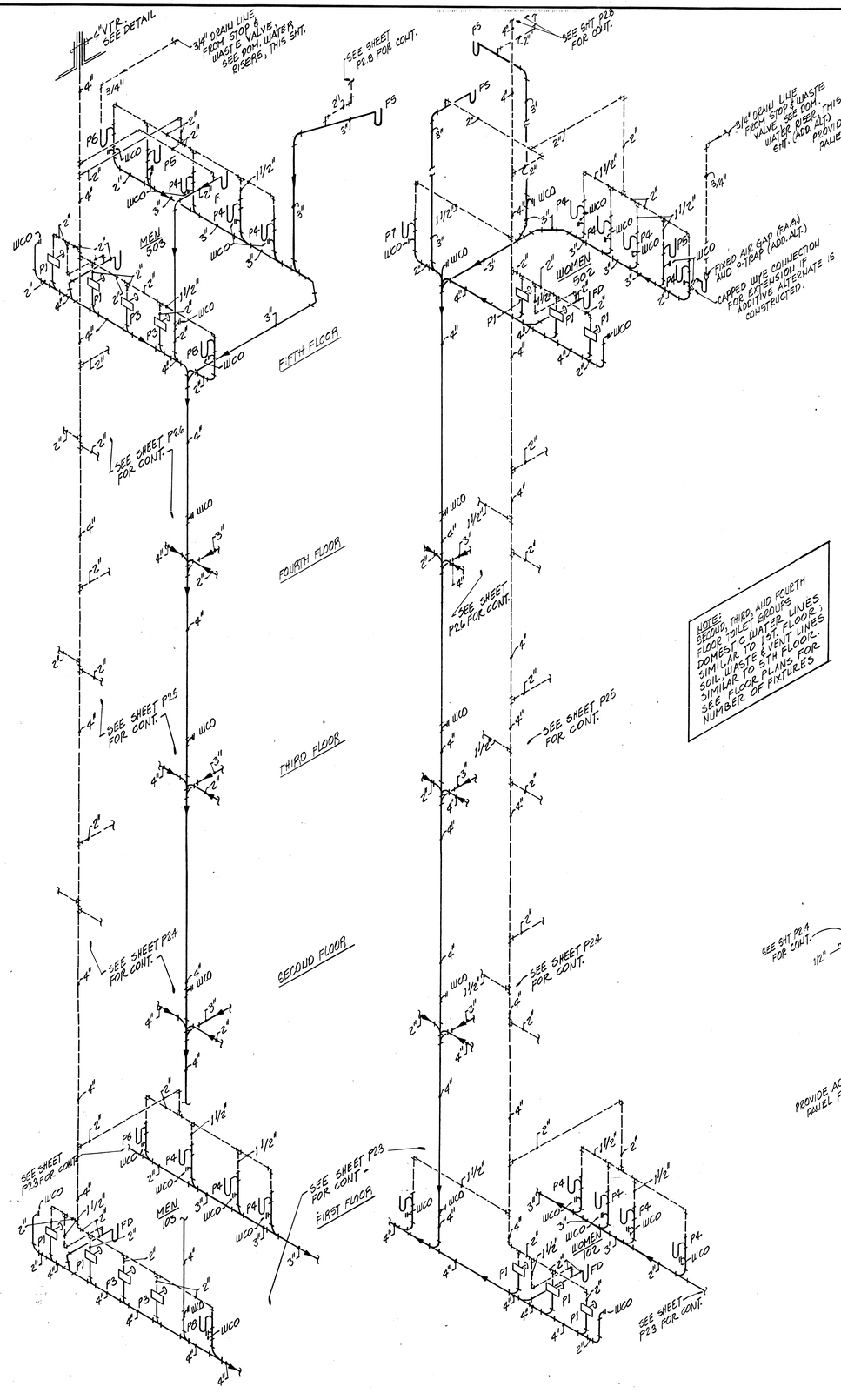
Project Number: 8506
Date: 4/14/86
Checked by: RTB
JLJ
Drawing Title: PENTHOUSE ROOF PLAN - PLUMBING

Drawing: P2.8
Sheet: 70 of 111



TOILET GROUPS RISERS

SCALE NONE

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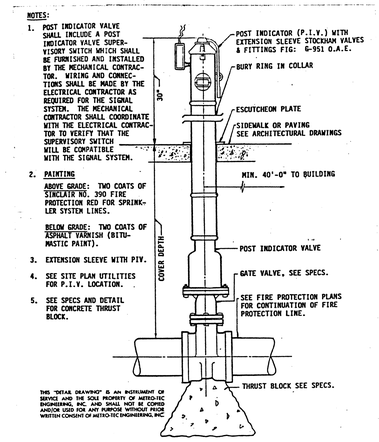
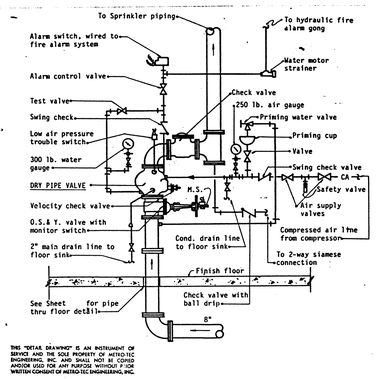
Project Number 8506
Date APRIL 14, 1986
Checked by RJB
Drawing Title TOILET GROUPS RISERS

Drawing P3.1
Sheet 71 of 111



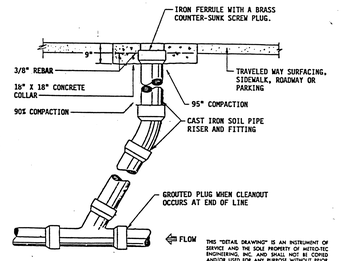
POST INDICATOR VALVE DETAIL

SCALE: NONE



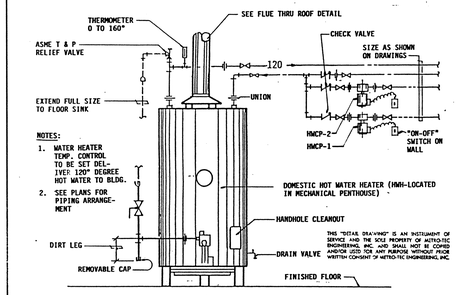
DRY PIPE VALVE & TRIM DETAIL

SCALE: NONE



CLEANOUT TO GRADE

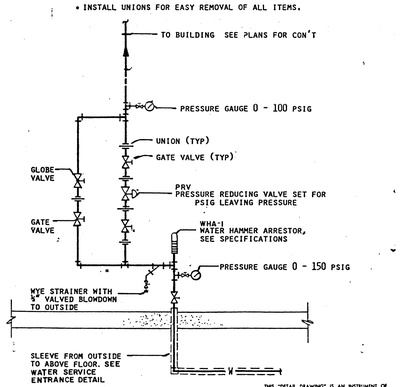
NOT TO SCALE



HOT WATER HEATER DETAIL

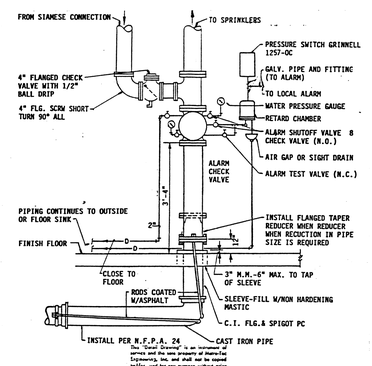
SCALE: NONE

- RACK PIPING ON WALL WITH UNISTRUT. KEEP AS COMPACT AS POSSIBLE.
- ALL ACCESSORIES SHALL BE SAME SIZE AS LINE ENTERING BUILDING.
- INSTALL UNIONS FOR EASY REMOVAL OF ALL ITEMS.



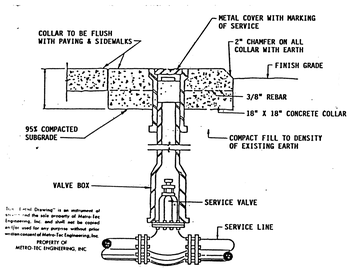
PRV STATION DETAIL

SCALE: NONE



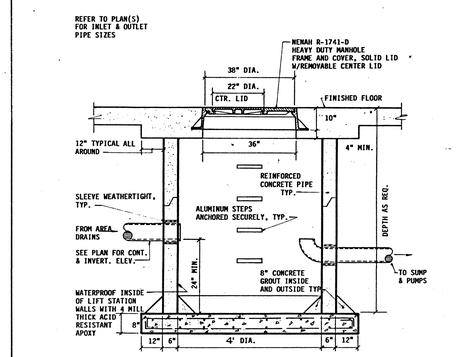
SPRINKLER ALARM VALVE DETAIL

SCALE: NONE



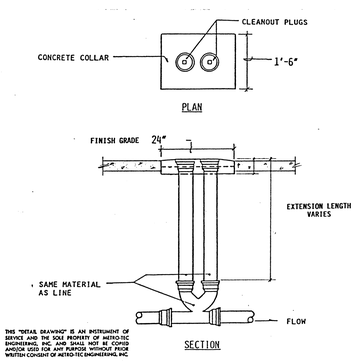
VALVE IN CAST IRON BOX DETAIL

SCALE: NONE



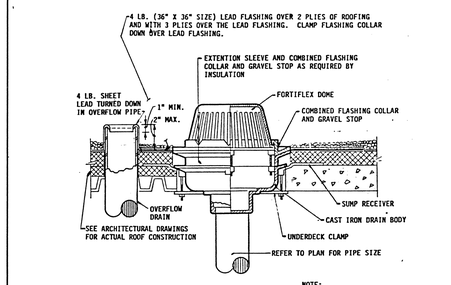
SAND TRAP DETAIL

NOT TO SCALE



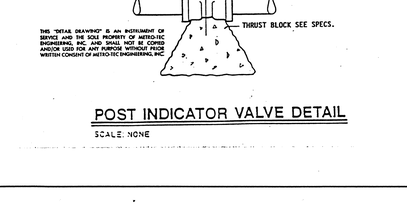
TWO-WAY CLEANOUT DETAIL

SCALE: NONE



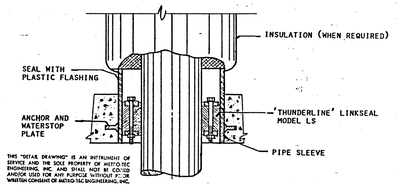
ROOF DRAIN DETAIL

SCALE: NONE



WALL PENETRATION DETAIL

NOT TO SCALE



FLOOR PENETRATION DETAIL

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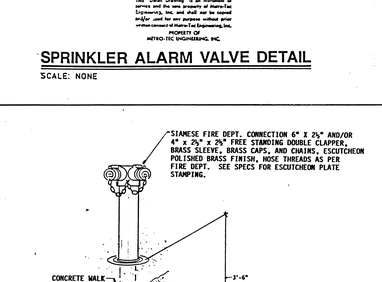
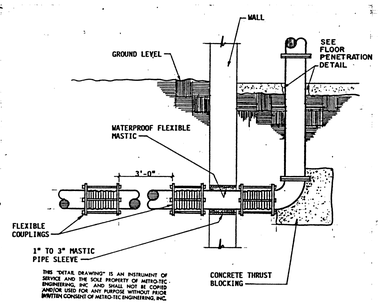


NOTES: 1. SEE PLANS FOR REQUIRED SIAMESE FIRE DEPT. CONNECTIONS.
2. SEE PLANS FOR ADDITIONAL PIPING SIZES.

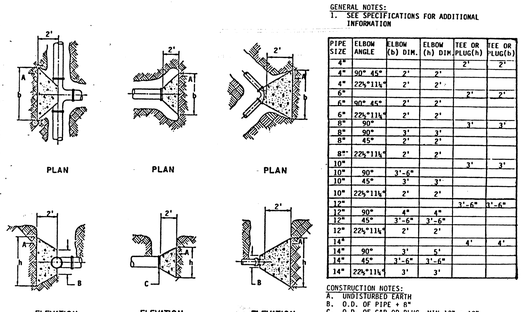
SIDEWALK SIAMESE FIRE DEPT. CONN. DETAIL

NOT TO SCALE



WATER SERVICE ENTRANCE DETAIL

NOT TO SCALE



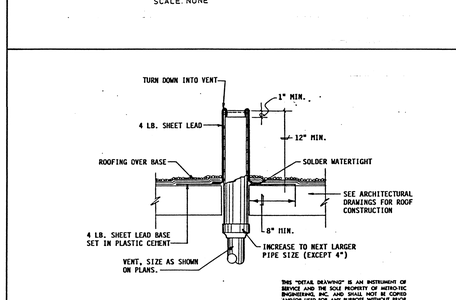
GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

PIPE SIZE	ELBOW ANGLE	ELBOW (b) DIM.	ELBOW (h) DIM.	TEE OR PLUG(A)	TEE OR PLUG(B)
4"				2'	2'
4"	90° 45°	2'	2'		
6"	22½°11¼°	2'	2'	2'	2'
6"	90° 45°	2'	2'		
8"	90°	3'	3'	3'	3'
8"	45°	2'	2'		
8"	22½°11¼°	2'	2'		
10"				3'	3'
10"	90°	3'-6"			
10"	45°	3'	3'		
10"	22½°11¼°	2'	2'		
12"				3'-6"	3'-6"
12"	90°	4"	4"		
12"	45°	3'-6"	3'-6"		
12"	22½°11¼°	2'	2'		
14"				4'	4'
14"	90°	3'	5'		
14"	45°	3'-6"	3'-6"		
14"	22½°11¼°	3'	3'		

CONSTRUCTION NOTES:
A. UNDISTURBED EARTH
B. O.D. OF PIPE + 8"
C. O.D. OF CAP OR PLUG, MIN 12" x 12"

CONCRETE THRUST BLOCKING DETAIL

SCALE: NONE



VENT THRU ROOF DETAIL

NOT TO SCALE

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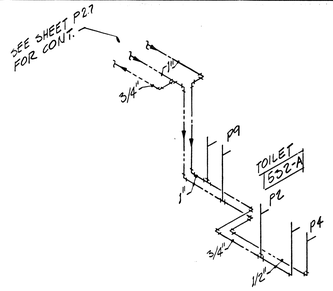
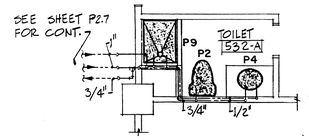
Project Number 8536
Date APR. 14, 1986
Checked by RJB
Drawing Title
PLUMBING DETAILS

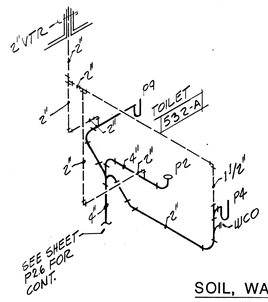
Drawing
P3.2
Sheet 12 of 111

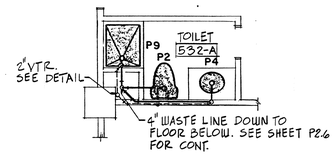




DOMESTIC WATER

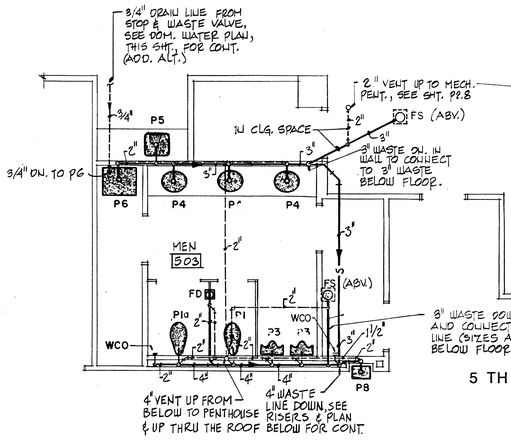
NOTE: TOILET 532-A SHOWN. TOILET 552-A OPPOSITE HAND.

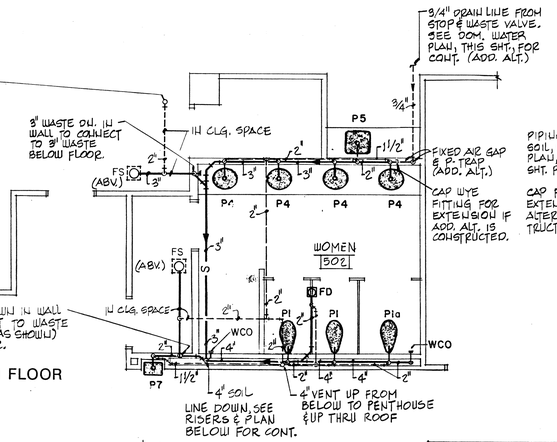


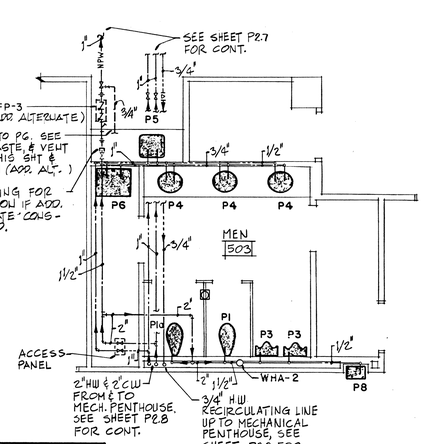


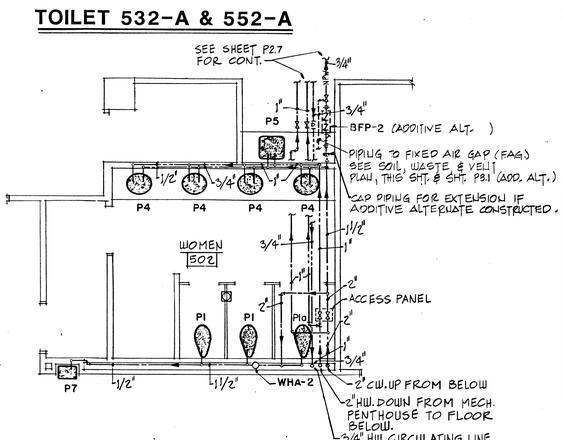
SOIL, WASTE AND VENT

TOILET 532-A & 552-A

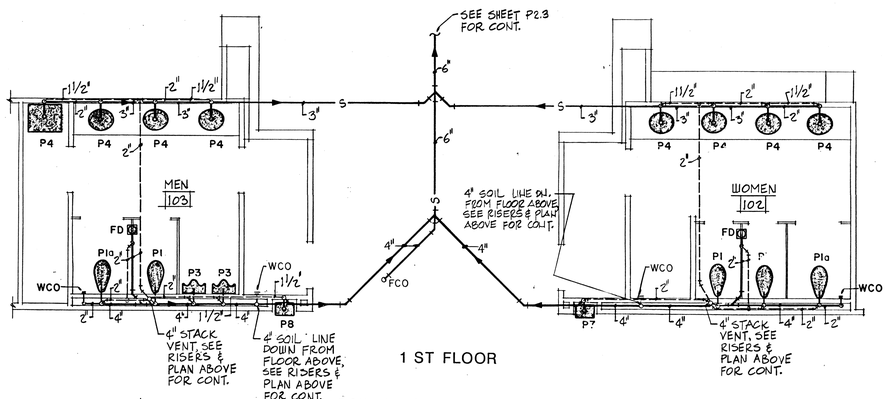




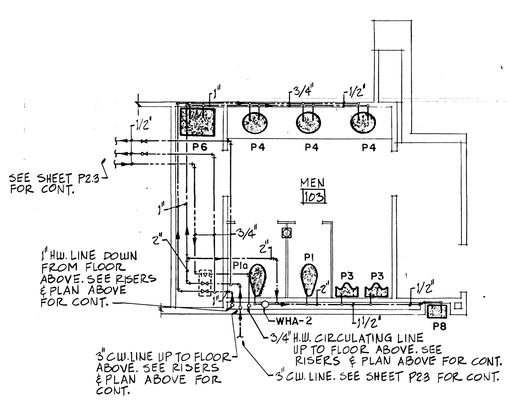




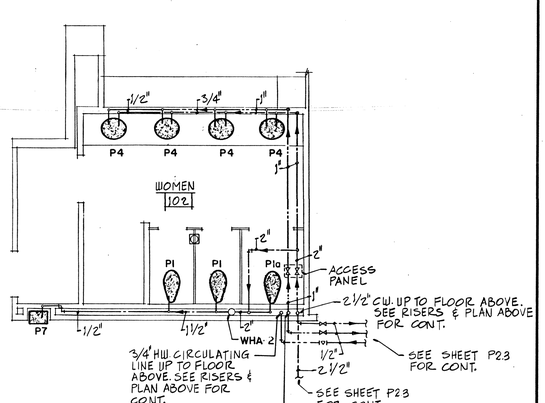
NOTE: SECOND, THIRD & FOURTH FLR. TOILET GROUPS' DOMESTIC WATER LINES SIMILAR TO 1ST. FLOOR; SOIL, WASTE & VENT LINES SIMILAR TO 5TH FLOOR. SEE FLOOR PLANS FOR NUMBER OF FIXTURES



SOIL, WASTE AND VENT



DOMESTIC WATER



ENLARGED TOILET GROUPS

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

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Project Number 8500
Date APR. 14, 1986
Checked by RJD
Drawing Title
ENLARGED TOILET GROUP PLANS AND RISERS

Drawing P3.3
Sheet 15 of 111

SYMBOL LEGEND

SYMBOL	DESCRIPTION
18"x12"	OVERALL DUCT SIZE
	CLG. DIFFUSER W/ ROUND FLEX, BRANCH DUCT
	CLG. DIFFUSER W/ SHEET METAL BRANCH DUCT
	CLG. RETURN AIR GRILLE OR EXHAUST REGISTER
	OPPOSED BLADE DAMPERS
	PARALLEL BLADE DAMPERS
	SUPPLY DUCT (CROSS SECTION)
	SUPPLY OR RETURN DUCT (CROSS SECTION)
BD	HAND BALANCING DAMPER (B.D.) IN DUCT, SINGLE BLADE WITH LOCKING QUAD
	DUCT TURNING VANES
	FLEXIBLE CONNECTION IN DUCT
	DUCTWORK, WITH 1" INTERIOR ACOUSTICAL LINING
FD	FIRE DAMPER IN DUCT
	AIR PROPORTIONING VANES (APV)
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
D	DRAIN LINE
RAS	RUNAROUND SUPPLY LINE
RAR	RUNAROUND RETURN LINE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
	COLD WATER
	GATE VALVE
	GLOBE OR REFRIGERANT VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BALANCING, PLUG, GAS OR GAUGE COCK
	PRESSURE REDUCIN VALVE
	SOLENOID VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	TEMPERATURE/PRESSURE FITTING
	UNION
	FLANGE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	VALVE IN RISE
	STRAINER
	THERMEMETER
	PRESSURE GAUGE WITH GAUGE COCK
SRV DRA	SAFETY RELIEF VALVE WITH DRAIN
T	PNEUMATIC ROOM THERMOSTAT
T	ELECTRIC ROOM THERMOSTAT
T	DUCT THERMOSTAT
	MAIN CONTROL AIR
DM	DAMPER MOTOR
P	PRESSURE STAT
PE	PNEUMATIC-ELECTRIC RELAY
EP	ELECTRIC-PNEUMATIC RELAY
R	RELAY
FS	FLOW SWITCH
FZ	FREEZESTAT
RA	RETURN AIR
OA	OUTSIDE AIR
AL	ACOUSTICAL LINING
AD	ACCESS DOOR
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
C	COMMON

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION

FIRE PROTECTION EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
FDC-1	FIRE DEPARTMENT CONNECTION: ELKHART MODEL NO. 15, SIDEWALK SIAMESE TWO 2-1/2" X 2-1/2" X 4", VERIFY THREADS WITH LOCAL FIRE DEPARTMENT BEFORE ORDERING. COMPLETE WITH PLUGS, CHAINS AND SLEEVE. ESCUTCHEON LETTERED AS PER SPECIFICATIONS WITH POLISHED CHROMIUM PLATED FINISH.
FDC-2	FIRE DEPARTMENT CONNECTION: ELKHART MODEL NO. 15, SIDEWALK SIAMESE TWO 2-1/2" X 2-1/2" X 4", VERIFY THREADS WITH LOCAL FIRE DEPARTMENT BEFORE ORDERING. COMPLETE WITH PLUGS, CHAINS AND SLEEVE. ESCUTCHEON LETTERED AS PER SPECIFICATIONS WITH POLISHED CHROMIUM PLATED FINISH.
FDCV	FIRE DEPARTMENT CONNECTION VALVE: STANDARD FIRE-WEST, GATE VALVE MODEL NO. 5281G 2-1/2" X 2-1/2" WITH NON-RISING STEM, POLISHED BRASS BODY WITH SOLID WEDGE DISC., RED HAND WHEEL, WITH BRASS CAP AND CHAIN. FEMALE N.P.T. X MALE N.S.T. ROUGH BRASS FINISH. PROVIDE AND INSTALL POLISHED BRASS WALL FLANGE.
FWC-1	FIRE HOSE CABINET: STANDARD FIRE-WEST CABINET NO. 5400SS, FULLY RECESSED, 20 GAUGE STAINLESS STEEL BOX, FRAME AND DOOR. DOOR SHALL BE STYLE D DOUBLE STRENGTH WITH ETCHED MIRROR READING: "FIRE HOSE CABINET". LEFT HAND CONTINOUS HINGE WITH SATIN FINISH PULL HANDLE AND FRICTION CATCH. NO. 475 HOSE RACK 75' U/L SINGLE JACK HOSE. 150#, 1-1/2", ANGLE VALVE, FOG NOZZLE, PAINTED RACK AND TRIM, LOCAL FIRE DEPARTMENT APPROVED THREADING. WALL OPENING: 34" X 36" X 8".
FWC-2	FIRE HOSE CABINET: STANDARD FIRE-WEST CABINET NO. 5408SS, SURFACE MOUNTED, 20 GAUGE STAINLESS STEEL BOX, FRAME AND DOOR. DOOR SHALL BE STYLE D DOUBLE STRENGTH WITH WIRE PLATE. LEFT HAND CONTINOUS HINGE WITH SATIN FINISH PULL HANDLE AND FRICTION CATCH. NO. 475 HOSE RACK 75'.U/L SINGLE JACK HOSE. 150#, 1-1/2", ANGLE VALVE, FOG NOZZLE, PAINTED RACK AND TRIM, LOCAL FIRE DEPARTMENT APPROVED THREADING. CABINET DIMENSIONS: 37" X 39" X 8".
RM	ROOF MANIFOLD: STANDARD FIRE-WEST, VERTICAL TWO-OUTLET ROOF MANIFOLD MODEL NO. SMV26 2-1/2" X 2-1/2" X 6", TWO NO. V6L U/L LISTED 2-1/2" ANGLE VALVES WITH CAP AND CHAIN. PROVIDED EXTENSION FROM MANIFOLD TO 2-1/2" VALVE ALLOWING FOR WALL THICKNESS ALSO PROVIDE AND INSTALL PLAIN BRASS WALL FLANGES FOR ALL PENETRATION THRU WALL.

FIXTURE NOTES:

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL FIXTURES INDICATED ON THIS SCHEDULE WHERE SHOWN ON FLOOR PLANS, WITH ALL REQUIRED CONNECTIONS. EACH FIXTURE BRANCH RISER SHALL BE TAKEN OFF FROM THE TOP OR BRANCH MAIN AND AN AIR CHAMBER 12" LONG (MINIMUM) SHALL BE LOCATED ABOVE EACH FIXTURE BRANCH. ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT.

ALL AUTOMATIC OR SELF-CLOSING VALVES FOR FAUCETS SHALL BE ADJUSTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SUPERVISED, AS NECESSARY, BY EQUIPMENT SUPPLIER'S REPRESENTATIVE AT THE REQUEST OF THE ARCHITECT OR ENGINEER.

ALL PLUMBING FIXTURES ABOVE SHALL HAVE CHROME PLATED FINISH ON ALL EXPOSED SUPPLY PIPING, VALVE STOPS, TAILPIECES, P-TRAPS AND ESCUTCHEONS. ESCUTCHEONS SHALL BE PROVIDED AT ALL WALL PENETRATIONS OF SUPPLIES AND WASTE LINES.

SYMBOL	DESCRIPTION
P1	WATER CLOSET: KOHLER "KINGSTON" NO. K-4430-ET, FLUSH VALVE, WALL-MOUNTED, ELONGATED RIM SIPHON JET, 1-1/2" TOP SPUD. SEAT: KOHLER K-4670-C (OR APPROVED EQUAL), SOLID PLASTIC, OPEN-FRONT, WITH CHECK HINGE, WHITE, FIREPROOF, SELF-SUSTAINING. FLUSH VALVE: SLOAN 110-3 OR DELANY "FLUSHBOY" NO. 402-AVB. WITH SMITH SERIES CLOSET SUPPORTS. SINGLE/DOUBLE OR HORIZONTAL/VERTICAL AS SHOWN ON DRAWINGS. SERVICE REQUIREMENTS: 4" WASTE, 2" OR 4" VENT (AS SHOWN ON DRAWINGS), 1" CW. SET RIM 15" ABOVE FLOOR.
P1A	WATER CLOSET (HANDICAPPED): KOHLER "KINGSTON" NO. K-4430-ET, FLUSH VALVE, WALL-MOUNTED, ELONGATED RIM SIPHON JET, 1-1/2" TOP SPUD. SEAT: KOHLER K-4670-C (OR APPROVED EQUAL), SOLID PLASTIC, OPEN-FRONT, WITH CHECK HINGE, WHITE, FIREPROOF, SELF-SUSTAINING. FLUSH VALVE: SLOAN 110-3 OR DELANY "FLUSHBOY" NO. 402-AVB. WITH SMITH SERIES CLOSET SUPPORTS. SINGLE/DOUBLE OR HORIZONTAL/VERTICAL AS SHOWN ON DRAWINGS. SERVICE REQUIREMENTS: 4" WASTE, 2" OR 4" VENT (AS SHOWN ON DRAWINGS), 1" CW. SET RIM 19" ABOVE FLOOR.
P2	WATER CLOSET: KOHLER "RIALTO" NO. K-3402-PB, ONE-PIECE, FLOOR-MOUNTED, SIPHON ACTION, TANK TYPE, WITH NO. K-7653 1/2" ANGLE SUPPLY WITH L.K. STOP, 12" ROUGHING-IN, VANDALPROOFED BOLT CAPS. SEAT: KOHLER NO. K-4662 COMPLETE, WITH COVER, WHITE. FITTINGS: NO. K-9241 STD. TRIM. SERVICE REQUIREMENTS: 4" WASTE, 2" OR 4" VENT (AS SHOUN ON DRAWINGS), 1/2" CW.
P3	URINAL: KOHLER "BARDON" NO. K-4980-T, VITREOUS CHINA, WALL-HUNG, 3/4" TOP SPUD, WASHOUT ACTION (LOW VOLUME), 2" REAR OUTLET, SLOAN 186 OR DELANY 451-VB FLUSH VALVE (EXPOSED), 18" WIDE, 11-3/4" PROJECTION FROM WALL, WITH SMITH NO. 635 (O.A.E.) FLOOR MOUNTED CARRIER IN WALL. SERVICE REQUIREMENTS: 2" WASTE, 1-1/2" VENT AND 3/4" CW.
P4	LAVATORY: KOHLER "PENNINGTON" NO. K-2195 (4" CENTERS), VITREOUS CHINA, OVAL, 19-1/4" X 16-1/4" SELF-RIMMING, BRADLEY MODEL #90-75 GSW (ANSI-A117.1, 1980), NO. K-7607 SUPPLIES WITH LOOSEKEY STOPS, NO. K-9004 (1-1/4" X 1-1/2") P-TRAP AND NO. 9015 NIPPLE. SERVICE REQUIREMENTS: 1-1/2" WASTE, 1-1/2" VENT, 1/2" CW, AND 1/2" TEMP. W.
P4A	LAVATORY: KOHLER "PENNINGTON" NO. K-2195 (4" CENTERS), VITREOUS CHINA, OVAL, 19-1/4" X 16-1/4" SELF-RIMMING, BRADLEY MODEL #90-75 GSW (ANSI-A117.1, 1980), NO. K-7607 SUPPLIES WITH LOOSEKEY STOPS, NO. K-9004 (1-1/4" X 1-1/2") P-TRAP AND NO. 9015 NIPPLE. INSTALL ARMAFLEX INSULATION ON EXPOSED HW OR TW SUPPLY LINE, AND P-TRAP AND WASTE LINE. SERVICE REQUIREMENTS: 1-1/2" WASTE, 1-1/2" VENT, 1/2" CW, AND 1/2" TEMP. W.
P5	COUNTERTOP SINK: ELKAY NO. LR-1918, SELF-RIMMING, 18 GAUGE, TYPE 302 STAINLESS STEEL, 19"X 18" OVERALL DIM, SINGLE COMPARTMENT (INSIDE DIM, 16" X 11-1/2" X 7-1/2"), 3 FAUCET HOLES WITH NO. LK-232-S GOOSENECK FAUCET. NO. LK-18 FIXED GRID, STRAINER, TAILPIECE AND C.P. P-TRAP. FURNISH WITH LOOSE KEY STOPS BELOW COUNTER. SERVICE REQUIREMENTS: 1-1/2" WASTE, 1-1/2" VENT AND 1/2" CW AND 1/2" HW.
P6	SERVICE BASIN: POWERS-FIAT MODEL NO. MSB-2424, 24" X 24" X 10", MOLDED-STONE. COLOR AS SELECTED UPON APPROVAL OF SUBMITTAL DATA, WITH NO. 1453-BB STRAINER, NO. 830-AA FAUCET UP 42" ABOVE FLOOR, NO. 832-AA HOSE AND HOSE BRACKET, NO. E-77-AA BUMPER GUARD. SEAL AROUND ALL POINTS OF CONTACT WITH WALL USING NO. 833-AA SILICONE SEALANT. 3" P-TRAP. SERVICE REQUIREMENTS: 3" WASTE, 2" VENT, 1/2" CW AND 1/2" HW.
P7	ELECTRIC WATER COOLER: HAWS MODEL HWFRA-8, SET IN 16-1/4" X 48" X 13" DEEP WALL MOUNTING BOX, STAINLESS STEEL RECEPTOR AND GRILLE. 8.0 GPH DELIVERY CAPACITY WITH 50 DEG. F. INLET WATER WITH 80 DEG. F. EWT AT 90 DEG. F. AMBIENT. 1/5 HP, 115V-1PH-60CY. SERVICE REQUIREMENTS: 1-1/4" X 1-1/2" P-TRAP, 1-1/2" WASTE, 1-1/2" VENT, 1/2" CW.
P8	ELECTRIC WATER COOLER (WHEELCHAIR UNIT): HAWS MODEL NO. HWCTA6 FULL-RECESSED WATER COOLER, BUBBLER MOUNTED 36" ABOVE FINISHED FLOOR. 45-1/4" OVERALL HEIGHT X 18" WIDE, 17GAUGE STAINLESS STEEL RECEPTOR AND GRILLE. WATER CHILLER 6.0 CPH DELIVERY CAPACITY WITH 50 DEG. INLET WATER WITH 80-DEG. F 50 EWT 90 DEG. F AMBIENT. 1/5HP-115V-60HZ. NOTE: SEE ARCHITECTURAL DRAWINGS FOR WHEEL CHAIR ACCESS AREA REQUIRED.
P9	SHOWER: KOHLER "TRINIDAD" FIBERGLASS REINFORCED SHOWER COVE. MODEL NO. K-1436, 36"X35-1/2"X76-1/2" OVERALL DIMENSIONS, ACID RESISTING WHITE, TWO SOAP DISHES. K-9132 DRAIN WITH PERFORATED STRAINER AND POLISHED CHROME FINISH, KOHLER NO. K-7234-T CHROME SHOWER TRIM WITH K-7371 BALL-JOINT SHOWERHEAD. 2" CAST IRON P-TRAP. SERVICE REQUIREMENTS: 2" WASTE, 1-1/2" VENT, 1/2" CW AND 1/2" HW.
FCO	FLOOR CLEANOUT: SMITH NO. 4023-UG FOR CONCRETE, CERAMIC TILE,OR QUARRY TILE. SMITH NO.4134-UG FOR VINYL OR ASBESTOS VINYL TILE, RECESSED FOR TILE. SMITH NO.4023-U-G-Y FOR CARPET WITH CARPET MARKER. INSIDE BUILDING FOR APPLICABLE FINISH.
CO	CLEANOUT: SMITH NO. 4223-U, CAST-IRON TOP, VANDALPROOF SCREWS, GALVANIZED. P.B. TOP IN OUTSIDE AREAS. OUTSIDE OR UNFINISHED AREA.
WCO	WALL CLEANOUT: SMITH NO. 4470, X-H BRONZE PLUG WITH STAINLESS STEEL FACE WALL COVER AND VANDALPROOF SCREW. INSTALL WHERE C.O. BELOW FIXTURE CONNECTION IS REQUIRED BY CODE AND WHERE SHOWN ON PLANS.
FD	FLOOR DRAIN: SMITH NO. 2010-BV, 5" SQUARE TOP, 2" CAULK OUTLET, WITH VENTED P-TRAP BELOW FLOOR.
FS	FLOOR SINK: SMITH NO. 3150-12, GALVANIZED, 12-1/2" SQUARE TOP, FULL GRATE, WITH SEDIMENT BUCKET, 8" DEEP, WITH VENTED P-TRAP BELOW FLOOR. SEE PLAN FOR SIZE OF OUTLET.
HWCP1 & HWCP2	HOT WATER CIRCULATING PUMP: BELL & GOSSETT MODEL #1HV, FLANGED CONNECTIONS, IN-LINE BOOSTER, 1750 RPM, 1/6 HP, 120V-1PH-60CY MOTOR, 5 GPM AGAINST 20 FT.TDH, ALL BRONZE CONSTRUCTION. WITH ON-OFF SWITCH ON WALL ADJACENT TO PUMP, WITH ENGRAVED PHENOLIC RESIN NAMEPLATE ATTACHED READING "HOT WATER CIRCULATING PUMP ON-OFF".
HWH	HOT WATER HEATER: PV1 MODEL NO. 20-G 125A-G, NATURAL GAS FIRED, 125 GALLON STORAGE IN TANK, 199,000 BTUH SEA LEVEL INPUT, ORIFICED FOR 5,200 FT. ELEVATION WITH 6" DIAMETER METALBESTOS TYPE "B" VENT. TANK SHALL BE ASME APPROVED FOR 160 PSI W.P. WITH ASME COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE. CONTROL SYSTEM, AGA, IRI AND FM APPROVED, TO MEET ALL APPLICABLE CODES. MANUFACTURER'S RATING OF 139 GPH RECOVERY AT 120-DEG.F RISE. 3/4" GAS CONNECTION, 2" CW INLET AND 2" HW OUTLET, 32" DIA. X 80" HIGH TO TOP OF FLUE OUTLET. SET TO DELIVER 120-DEG.F HOT WATER.
WHA-1	WATER HAMMER ARRESTOR: SMITH MODEL NO. 5050, 1" SIZE, "HYDROTROL" 155-330. STAINLESS STEEL CONSTRUCTION.
WHA-2	WATER HAMMER ARRESTOR: SMITH MODEL NO. 5020, 1" SIZE, "HYDROTROL" 33-60. STAINLESS STEEL CONSTRUCTION.
HB	HOSE BIBB: CHICAGO FAUCETS NO. 998, VACUUM BREAKER, 3/4" HOSE THREAD, REMOVABLE TEE HANDLE AND 3/4" INLET.
WH	WALL HYDRANT: SMITH, FIGURE 5510, BRONZE HYDRANT WITH P.B FACE, FREEZEPROOF, WITH LOOSE-KEY, 3/4" HOSE THREAD, 3/4" INLET. FURNISH WITH VACUUM BREAKER AND DEEP BOX.
RD	ROOF DRAIN: SMITH FIG. 1010-CRE, WITH UNDERDECK CLAMP, EXTENSION, SUMP RECEIVER AND CAST IRON BODY, FLASHING COLLAR, GRAVEL STOP AND FORTIFLEX DOME. SIZE AS SHOWN ON PLANS. THREADED OR CAULKED OUTLET AT CONTRACTOR'S OPTION.
DSN	DOWNSPOUT NOZZLE: SMITH FIG. 1770, CAST BRONZE BODY AND FLANGE, SAME SIZE AS ROOF DRAIN LEADER; SEE PLANS.
PRV	PRESSURE REGULATING VALVE: SPENCE NO. D-34 FOR WATER SERVICE, 3" SIZE, 30-40 PSIG W.P. SPRING RANGE, FLANGED, 244 GPM AT 15 PSIG DROP. SET TO DELIVER 65 PSI TO BUILDING.
BFP	BACKFLOW PREVENTER: BEECO HERSEY-SPARLING METER CO., MODEL 6-C, 3/4" FLANGED CONNECTION, COMPLETE WITH: 2 SPRING LOADED CHECK VALVES AND DIFFERENTIAL PRESSURE RELIEF VALVE LOCATED BETWEEN CHECK VALVES, GATE VALVES, AND TEST COCKS. 320 GPM CAPACITY.
BFP2 & BFP3	BACKFLOW PREVENTER: ADDITIVE ALTERNATE, BEECO HERSEY-SPARLING METER CO., MODEL 6-C, 1" FLANGED CONNECTION, COMPLETE WITH: 2 SPRING LOADED CHECK VALVES AND DIFFERENTIAL PRESSURE RELIEF VALVE LOCATED BETWEEN CHECK VALVES, GATE VALVES, AND TEST COCKS. 320 GPM CAPACITY.
PD	PLANTER DRAIN: SMITH FIGURE NO. 2671U, 4" CAULK, DUCO CAST IRON BODY, BRONZE DOME WITH STAINLESS STEEL MESH SCREEN. SURROUND STANDPIPE WITH GRAVEL FILL. INSTALL DOME 3" ABOVE GROUND LEVEL.
FAG	FIXED AIR GAP: ADDITIVE ALTERNATE, SMITH FIGURE 3950, 3/4" SIZE, DUCO CAST IRON BODY. SEE PLUMBING DRAWINGS FOR LOCATION AND ADDITIONAL INFORMATION.
BBLR	BUBBLER: RAIN BIRD, MODEL NO. 2200, STREAM BUBBLER. BRASS CONSTRUCTION, MULTI-ORIFICE NOZZLE, ADJUSTABLE FLOW, 1 TO 4 PSI PRESSURE, 1 TO 2 GPM FLOW. SEE PLUMBING DRAWING FOR LOCATION.
TMV	THERMOSTATIC MIXING VALVE: SYMMONS, MODEL NO. 5-400 WITH 3/4" INLETS AND 1" OUTLET. TEMP CONTROL THERMOSTATIC CONTROLLER WITH SWIVEL ACTION CHECK STOPS, REMOVABLE CARTRIDGE WITH STRAINER, STAINLESS STEEL PISTON AND LIQUID FILL THERMAL MOTOR WITH BELLOWS MOUNTED OUT OF WATER. ROUGH CHROME FINISH.

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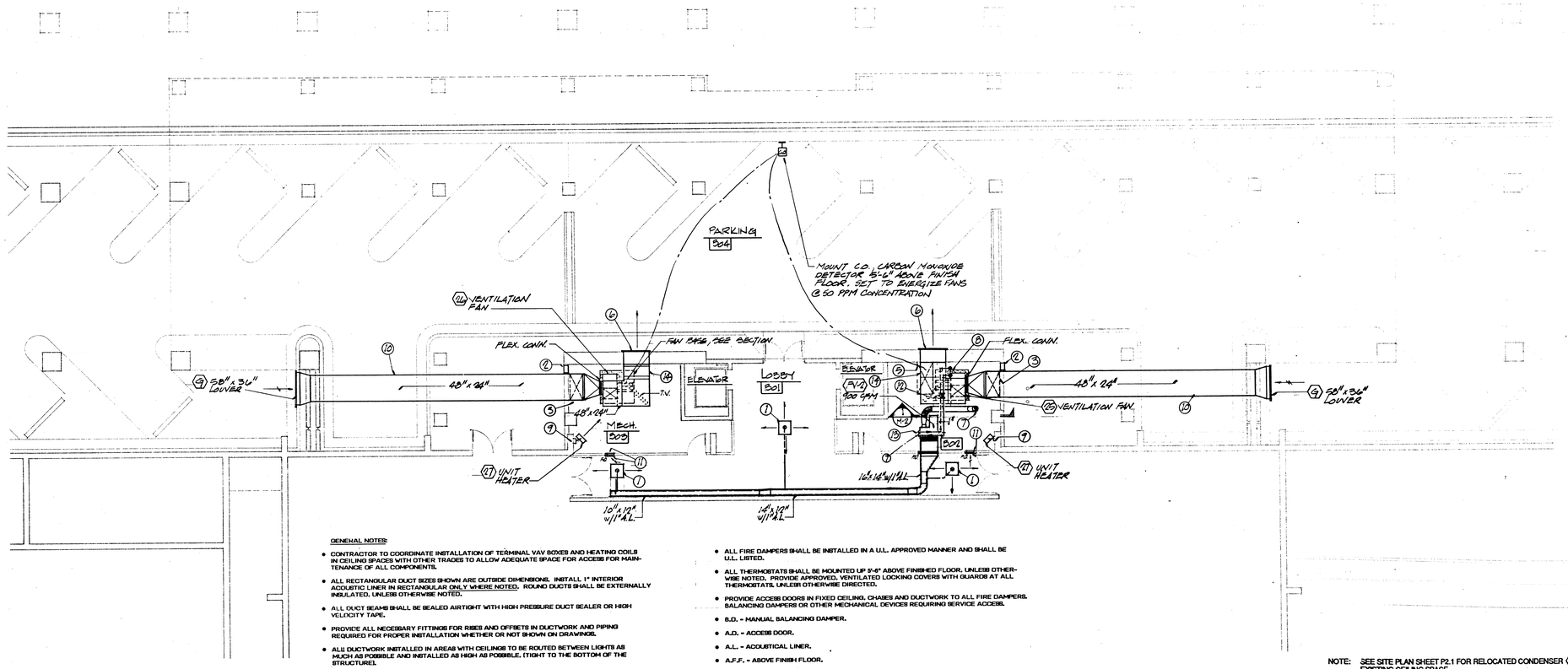
Date APRIL 14,1986
Checked by RJB
Drawing Title PLUMBING EQUIPMENT SCHEDULE

Drawing P6.1
Sheet 74 of 111

KEYED NOTES:

1. SUPPLY DIFFUSER (A), 300 CFM, 10" DIA. NECK SIZE.
2. 14"x7'-0" HIGH (G) OUTSIDE WALL LOUVER.
3. TRANSITION 48" x 24" TO 32" DIA. INLET SIDE OF FAN. INSTALL TIGHT AGAINST WALL.
4. FULL SIZE DISCHARGE OPENING WITH FLEX. CONN. AT FLANGE, TRANSITION TO 48" x 24" DUCT IF POSSIBLE.
5. SEE FIRE PROTECTION FOR COMPRESSOR LOCATED IN THIS SPACE.
6. (G) 48" x 48" LOUVER, LOUVER LOCATED IN CENTER OF WALL 5'-8" ABOVE FLOOR.
7. 11" DIA. SUPPLY DUCT FROM CHASE ABOVE.
8. 1" HWS AND 1" HWR DOWN FROM CHASE ABOVE.
9. MOUNT UNIT HEATER TO STRUCTURE PER MANUFACTURER'S RECOMMENDED ELEVATION.
10. INSTALL DUCT UP TIGHT TO STRUCTURE, MAINTAIN 6'-8" AT BOTTOM OF DUCT.
11. 12"x12" (L) 12" ABOVE FINISH FLOOR.
12. BALANCING VALVE AND ISOLATION VALVE.
13. HOT WATER COIL CONNECTIONS. SEE EQUIPMENT SCHEDULE FOR 2-WAY OR 3-WAY VALVE REQUIREMENTS, ALSO REFER TO DETAILS FOR VALVING AND PIPING ARRANGEMENT.
14. TRANSITION 48" x 24" DUCT UP TO 48" x 48" LOUVER SIZE.



GENERAL NOTES:

- CONTRACTOR TO COORDINATE INSTALLATION OF TERMINAL VAV BOXES AND HEATING COILS IN CEILING SPACES WITH OTHER TRADES TO ALLOW ADEQUATE SPACE FOR ACCESS FOR MAINTENANCE OF ALL COMPONENTS.
- ALL RECTANGULAR DUCT SIZES SHOWN ARE OUTSIDE DIMENSIONS. INSTALL 1" INTERIOR ACOUSTIC LINER IN RECTANGULAR ONLY WHERE NOTED. ROUND DUCTS SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED.
- ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER OR HIGH VELOCITY TAPE.
- PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.
- ALL DUCTWORK INSTALLED IN AREAS WITH CEILINGS TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE, (TIGHT TO THE BOTTOM OF THE STRUCTURE).
- ALL DUCT PENETRATIONS THRU THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT INSTALLATION. SIMILAR TO DUCT PENETRATION THRU ROOF ON EXHAUST FAN DETAIL.
- ALL DUCT PENETRATIONS THRU ROOF STRUCTURE SHALL BE PROVIDED WITH A WELDED STEEL ANGLE FRAME AROUND DUCT, BELOW ROOF DECKING. ANCHOR TO STRUCTURE AND DUCT AT APPROXIMATLEY 8" ON CENTERS.
- COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRUCTURAL DRAWINGS. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS.
- INSTALL "SPIN-IN" TYPE FITTINGS WITH BALANCING DAMPERS FOR ROUND BRANCH RUNOUTS TO EACH DIFFUSER A . BRANCH DUCTS TO DIFFUSERS SHALL BE OF EQUAL SIZE TO NECK DIAMETER.
- FLEXIBLE ROUND DUCT BRANCHES TO DIFFUSERS A SHALL BE PRE-INSULATED AND SHALL NOT EXCEED 4 FT. IN TOTAL LENGTH.
- THE SPACE ABOVE THE CEILING IS SERVING AS A RETURN AIR PLENUM. ALL AIR BEING SUPPLIED SHALL BE PROVIDED WITH RETURN AIR PATH BACK TO ITS ORIGIN. PROVIDE RETURN AIR OPENINGS IN WALLS EXTENDING THRU CEILING AND UP TO STRUCTURE. RETURN AIR OPENINGS SHALL EQUAL 1 SQ. FT. PER 500 CFM OF AIR BEING RETURNED, UNLESS OTHERWISE NOTED. PROVIDE WITH 180 DEGREE F. FIRE DAMPER IN FIRE RATED WALLS.
- COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT, SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.
- COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES AND REGISTERS TO BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILING PLAN AND LIGHTING PLAN.
- ALL 90-DEG. SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE THICK TURNING VANES.
- ALL FIRE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED.
- ALL THERMOSTATS SHALL BE MOUNTED UP 5'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. PROVIDE APPROVED, VENTILATED LOCKING COVERS WITH GUARDS AT ALL THERMOSTATS, UNLESS OTHERWISE DIRECTED.
- PROVIDE ACCESS DOORS IN FIXED CEILING, CHASES AND DUCTWORK TO ALL FIRE DAMPERS, BALANCING DAMPERS OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.
- B.D. - MANUAL BALANCING DAMPER.
- A.D. - ACCESS DOOR.
- A.L. - ACOUSTICAL LINER.
- A.F.F. - ABOVE FINISH FLOOR.
- T.V. - TURNING VANES.
- F.D. - FIRE DAMPER.
- BEFORE CONTRACTOR ORDERS ANY GRILLES, REGISTERS OR DIFFUSERS, HE SHALL VERIFY THE CEILING CONSTRUCTION IN ALL AREAS OF THE PROJECT. IF GRILLES, REGISTERS OR DIFFUSERS SPECIFIED ARE NOT COMPATIBLE WITH THE TYPE OF CEILING CONSTRUCTION, THE CONTRACTOR SHALL ORDER PROPER TYPE OF GRILLE, REGISTER OR DIFFUSER TO BE COMPATIBLE WITH THE CEILING.
- ALL HOT WATER BRANCH LINES OFF MAIN SHALL BE PROVIDED WITH A SWING JOINT.
- PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF ALL MECHANICAL HEATING HOT WATER PIPING.
- REFER TO APPROPRIATE COIL PIPING DETAILS FOR ARRANGEMENT OF PIPING, VALVING, AND ACCESSORIES.
- PROVIDE ON INLET SIDE, A MINIMUM OF TWO x INLET SIZE OF STRAIGHT SHEETMETAL ROUND DUCT PRIOR TO FLEXIBLE CONNECTION OF EACH TERMINAL VAV BOX.
- ALL RETURN AIR SOUND TRAPS SHALL BE CONSTRUCTED OF 1" RIGID ACOUSTICAL SOUND BOARD WITH ALL TAPED SEAMS TO BE AIR TIGHT. SOUND BAFFLES SHALL BE PROVIDED IN THE OPENINGS OF EACH TRAP. BAFFLES SHALL BE OF 1" SOUND BOARD AT 12" CENTERS, ARRANGED IN AN EGGCRATE PATTERN. SEAL ENTIRE TRAP TO INSURE THAT ALL RETURN AIR FLOWS THRU TRAP. SUSPEND TRAPS FROM STRUCTURE WITH 20GA. SHEETMETAL STRAPS TO BE RIGID AND SECURE. DIMENSIONS OF TRAPS SHALL BE AS DESIGNATED ON THE DRAWINGS.

NOTE: SEE SITE PLAN SHEET P2.1 FOR RELOCATED CONDENSER (33) AND PIPING IN EXISTING CEILING SPACE.

BASEMENT MECHANICAL FLOOR PLAN

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

STATE OF NEW MEXICO

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400 Roma N.W.
Albuquerque, New Mexico 87102

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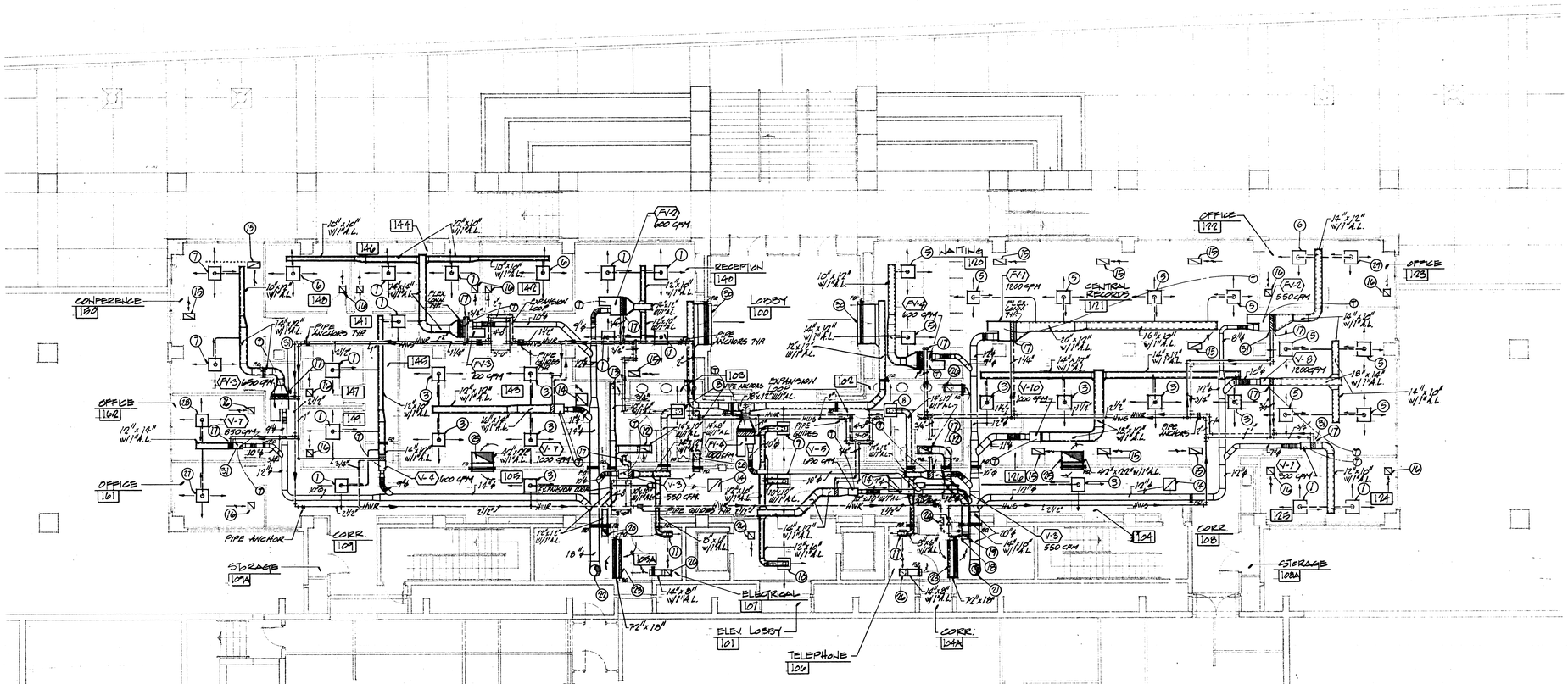
Project Number: 8506
Date: 4/14/86
Checked by: RJB
JLJ
Drawing Title: BASEMENT MECHANICAL FLOOR PLAN

Drawing: M2.1
Sheet 15 of 111

KEYED NOTES:

1. SUPPLY DIFFUSER (A), 150 CFM, 8" DIA. NECK SIZE.
2. SUPPLY DIFFUSER (A), 175 CFM, 8" DIA. NECK SIZE.
3. SUPPLY DIFFUSER (A), 250 CFM, 10"DIA. NECK SIZE.
4. SUPPLY DIFFUSER (A), 213 CFM, 8" DIA. NECK SIZE.
5. SUPPLY DIFFUSER (A), 300 CFM, 10" DIA. NECK SIZE.
6. SUPPLY DIFFUSER (A), 200 CFM, 8" DIA. NECK SIZE.
7. SUPPLY DIFFUSER (A), 325 CFM, 10" DIA. NECK SIZE.
8. SUPPLY DIFFUSER (B), 200 CFM, 12" DIA. NECK SIZE WITH 14" x 10" WITH 1" A.L. BRANCH DUCT.
9. SUPPLY DIFFUSER (B), 200 CFM, 8" DIA. NECK SIZE WITH 10" x 10" WITH 1" A.L. BRANCH DUCT.
10. SUPPLY DIFFUSER (B), 250 CFM, 10"DIA. NECK SIZE WITH 12" x 10" WITH 1" A.L. BRANCH DUCT.
11. SUPPLY DIFFUSER (B), 100 CFM, 6" DIA. NECK SIZE WITH 8" x 6" WITH 1" A.L. BRANCH DUCT.
12. 24" x 12" EXHAUST REGISTER (F), 500 CFM.
13. 8" x 8" EXHAUST REGISTER (F), 100 CFM.
14. 24" x 24" RETURN AIR GRILLE (C), WITH 24" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
15. 24" x 12" RETURN AIR GRILLE (C), WITH 14" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
16. 12" x 12" RETURN AIR GRILLE (C), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
17. HOT WATER COIL CONNECTORS. SEE EQUIPMENT SCHEDULE FOR 2-WAY OR 3-WAY VALVE REQUIREMENTS. ALSO REFER TO DETAILS FOR VALVING AND PIPING ARRANGEMENT.
18. 2½" HWS AND 2½" HWR PIPING IN CHASE.
19. 14" x 10" EXHAUST DUCT UP IN CHASE.
20. 12" x 12" EXHAUST DUCT UP IN CHASE.
21. 24" DIA. SUPPLY DUCT IN CHASE DOWN FROM FLOOR ABOVE, 11" ∅ DIA. TO BSMT. BELOW.
22. 18" DIA. SUPPLY DUCT IN CHASE DOWN FROM FLOOR ABOVE.
23. 72" x 18" RETURN AIR DUCT THRU CHASE WALL OPEN IN CHASE AND CORRIDOR.
24. BALANCING VALVE AND ISOLATION VALVE LOCATED IN CORRIDOR CEILING SPACE.
25. 42" x 22" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CLG.
26. 12" x 12" RETURN AIR GRILLE (D), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
27. SUPPLY DIFFUSER (A), 450CFM, 12" DIA. NECK SIZE.
28. SUPPLY DIFFUSER (A), 400 CFM, 12" DIA. NECK SIZE.
29. SUPPLY DIFFUSER (A), 350 CFM, 10" DIA. NECK SIZE.
30. 10¼"x 4" SIDEWALL SUPPLY REGISTER (J), 500 CFM, LOCATED ABOVE DOOR AT 10'-0" ABOVE FINISH FLOOR.
31. INSTALL THREE-WAY CONTROL @ MOUNTED COIL FOR THIS ZONE. SEE THREE-WAY VALVE COIL PIPING DETAIL.



GENERAL NOTES:

- CONTRACTOR TO COORDINATE INSTALLATION OF TERMINAL VAV BOXES AND HEATING COILS IN CEILING SPACES WITH OTHER TRADES TO ALLOW ADEQUATE SPACE FOR ACCESS FOR MAINTENANCE OF ALL COMPONENTS.
- ALL RECTANGULAR DUCT SIZES SHOWN ARE OUTSIDE DIMENSIONS. INSTALL 1" INTERIOR ACOUSTIC LINER IN RECTANGULAR ONLY WHERE NOTED. ROUND DUCTS SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED.
- ALL DUCT BEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER OR HIGH VELOCITY TAPE.
- PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.
- ALL DUCTWORK INSTALLED IN AREAS WITH CEILINGS TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE, (TIGHT TO THE BOTTOM OF THE STRUCTURE).
- ALL DUCT PENETRATIONS THRU THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT INSTALLATION, SIMILAR TO DUCT PENETRATION THRU ROOF ON EXHAUST FAN DETAIL.
- ALL DUCT PENETRATIONS THRU ROOF STRUCTURE SHALL BE PROVIDED WITH A WELDED STEEL ANGLE FRAME AROUND DUCT, BELOW ROOF DECKING. ANCHOR TO STRUCTURE AND DUCT AT APPROXIMATLEY 8' ON CENTERS.
- COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRUCTURAL DRAWINGS. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS.
- INSTALL "SPIN-IN" TYPE FITTINGS WITH BALANCING DAMPERS FOR ROUND BRANCH RUNOUTS TO EACH DIFFUSER A . BRANCH DUCTS TO DIFFUSERS SHALL BE OF EQUAL SIZE TO NECK DIAMETER.
- FLEXIBLE ROUND DUCT BRANCHES TO DIFFUSERS A SHALL BE PRE-INSULATED AND SHALL NOT EXCEED 4 FT. IN TOTAL LENGTH.
- THE SPACE ABOVE THE CEILING IS SERVING AS A RETURN AIR PLENUM. ALL AIR BEING SUPPLIED SHALL BE PROVIDED WITH RETURN AIR PATH BACK TO ITS ORIGIN. PROVIDE RETURN AIR OPENINGS IN WALLS EXTENDING THRU CEILING AND UP TO STRUCTURE. RETURN AIR OPENINGS SHALL EQUAL 1 SQ. FT. PER 500 CFM OF AIR BEING RETURNED, UNLESS OTHERWISE NOTED. PROVIDE WITH 180 DEGREE F. FIRE DAMPER IN FIRE RATED WALLS.
- COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT, SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.
- COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES AND REGISTERS TO BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILING PLAN AND LIGHTING PLAN.
- ALL 90-DEG. SQUARE ELBOWS SHALL BE PROVIDED WITH LOUBLE THICK TURNING VANES.
- ALL FIRE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED.
- ALL THERMOSTATS SHALL BE MOUNTED UP 5'-6" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. PROVIDE APPROVED, VENTILATED LOCKING COVERS WITH GUARDS AT ALL THERMOSTATS, UNLESS OTHERWISE DIRECTED.
- PROVIDE ACCESS DOORS IN FIXED CEILING, CHASES AND DUCTWORK TO ALL FIRE DAMPERS, BALANCING DAMPERS OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.
- B.D. - MANUAL BALANCING DAMPER.
- A.D. - ACCESS DOOR.
- A.L. - ACOUSTICAL LINER.
- A.F.F. - ABOVE FINISH FLOOR.
- T.V. - TURNING VANES.
- F.D. - FIRE DAMPER.
- BEFORE CONTRACTOR ORDERS ANY GRILLES, REGISTERS OR DIFFUSERS, HE SHALL VERIFY THE CEILING CONSTRUCTION IN ALL AREAS OF THE PROJECT. IF GRILLES, REGISTERS OR DIFFUSERS SPECIFIED ARE NOT COMPATIBLE WITH THE TYPE OF CEILING CONSTRUCTION, THE CONTRACTOR SHALL ORDER PROPER TYPE OF GRILLE, REGISTER OR DIFFUSER TO BE COMPATIBLE WITH THE CEILING.
- ALL HOT WATER BRANCH LINES OFF MAIN SHALL BE PROVIDED WITH A SWING JOINT.
- PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF ALL MECHANICAL HEATING HOT WATER PIPING.
- REFER TO APPROPRIATE COIL PIPING DETAILS FOR ARRANGEMENT OF PIPING, VALVING, AND ACCESSORIES.
- PROVIDE ON INLET SIDE, A MINIMUM OF TWO x INLET SIZE OF STRAIGHT SHEETMETAL ROUND DUCT PRIOR TO FLEXIBLE CONNECTION OF EACH TERMINAL VAV BOX.
- ALL RETURN AIR SOUND TRAPS SHALL BE CONSTRUCTED OF 1" RIGID ACOUSTICAL SOUND BOARD WITH ALL TAPED SEAMS TO BE AIR TIGHT. SOUND BAFFLES SHALL BE PROVIDED IN THE OPENINGS OF EACH TRAP. BAFFLES SHALL BE OF 1" SOUND BOARD AT 12" CENTERS, ARRANGED IN AN EGGCRATE PATTERN. SEAL ENTIRE TRAP TO INSURE THAT ALL RETURN AIR FLOWS THRU TRAP. SUSPEND TRAPS FROM STRUCTURE WITH 20GA. SHEETMETAL STRAPS TO BE RIGID AND SECURE. DIMENSIONS OF TRAPS SHALL BE AS DESIGNATED ON THE DRAWINGS.

FIRST FLOOR MECHANICAL PLAN

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

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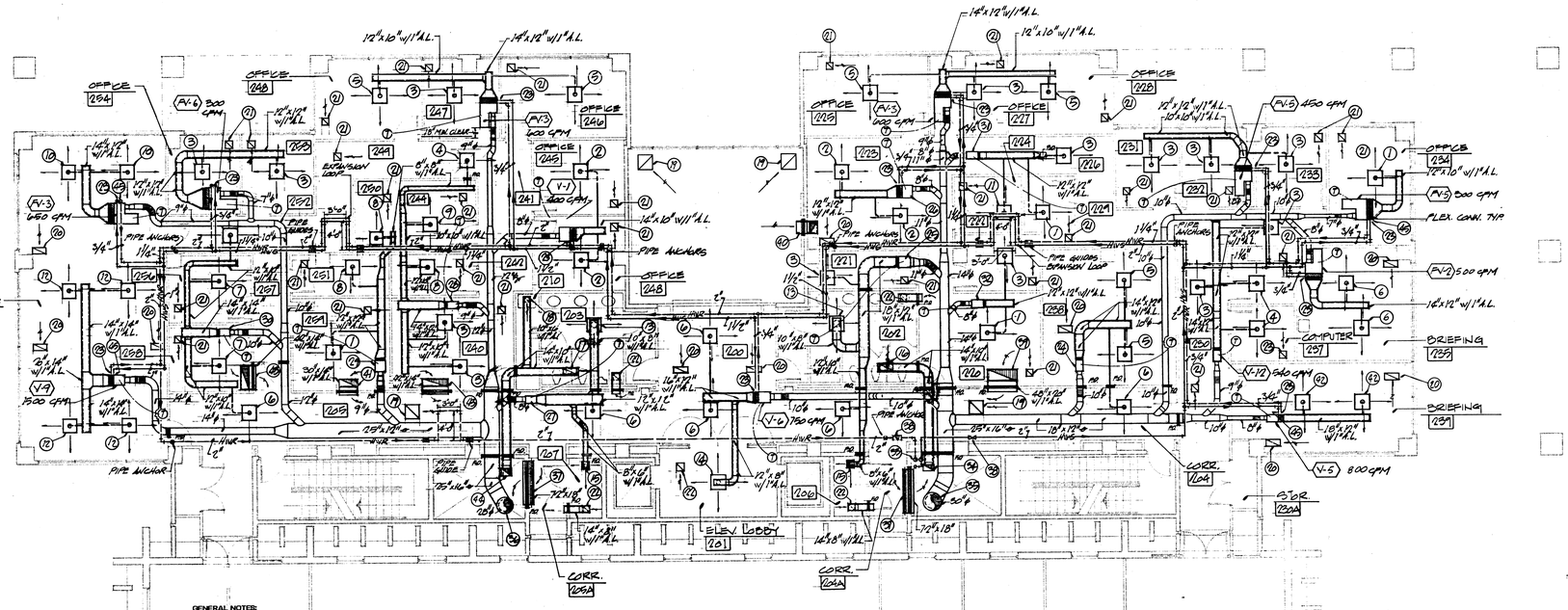
Project Number: 8506
Date: 4/14/86
Checked by: RJD
JLJ
Drawing Title: FIRST FLOOR MECHANICAL PLAN

Drawing M2.2
Sheet 76 of 111

KEYED NOTES:

1. SUPPLY DIFFUSER (A), 300 CFM, 10" DIA. NECK SIZE.
2. SUPPLY DIFFUSER (A), 200 CFM, 8" DIA. NECK SIZE.
3. SUPPLY DIFFUSER (A), 150 CFM, 8" DIA. NECK SIZE.
4. SUPPLY DIFFUSER (A), 120 CFM, 6" DIA. NECK SIZE.
5. SUPPLY DIFFUSER (A), 225 CFM, 8" DIA. NECK SIZE.
6. SUPPLY DIFFUSER (A), 250 CFM, 10" DIA. NECK SIZE.
7. SUPPLY DIFFUSER (A), 140 CFM, 8" DIA. NECK SIZE.
8. SUPPLY DIFFUSER (A), 100 CFM, 6" DIA. NECK SIZE.
9. SUPPLY DIFFUSER (A), 130 CFM, 6" DIA. NECK SIZE
10. SUPPLY DIFFUSER (A), 325 CFM, 10" DIA. NECK SIZE.
11. SUPPLY DIFFUSER (A), 125 CFM, 6" DIA. NECK SIZE.
12. SUPPLY DIFFUSER (A), 375 CFM, 12" DIA. NECK SIZE.
13. SUPPLY DIFFUSER (B), 200 CFM, 8" DIA. NECK SIZE, WITH 10" x 8" WITH 1" A.L. BRANCH DUCT.
14. SUPPLY DIFFUSER (B), 250 CFM, 10" DIA. NECK SIZE, WITH 12" x 8" WITH 1" A.L. BRANCH DUCT.
15. SUPPLY DIFFUSER (B), 100 CFM, 6" DIA. NECK SIZE, WITH 8" x 6" WITH 1" A.L. BRANCH DUCT.
16. 24" x 12" EXHAUST REGISTER (F), 500 CFM.
17. 24" x 12" EXHAUST REGISTER (F), 400 CFM.
18. 8" x 8" EXHAUST REGISTER (F), 100 CFM.
19. 24" x 24" RETURN AIR GRILLE (C), WITH 24" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
20. 24" x 12" RETURN AIR GRILLE (C), WITH 14" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
21. 12" x 12" RETURN AIR GRILLE (C), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
22. 12" x 12" RETURN AIR GRILLE (D), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
23. HOT WATER COIL CONNECTIONS. SEE EQUIPMENT SCHEDULE FOR 2-WAY OR 3-WAY VALVE REQUIREMENTS. ALSO REFER TO DETAILS FOR VALVING AND PIPING ARRANGEMENT.
24. (V-12), 700 CFM.
25. (V-15), 550 CFM.
26. (V-1), 400 CFM.
27. (V-15), 550 CFM.
28. (V-15), 650 CFM.
29. (V-16), 500 CFM.
30. (V-12), 730 CFM.
31. (V-13), 575 CFM.
32. (V-16), 450 CFM.
33. 3" HWS AND 3" HWR PIPING IN CHASE.
34. TRANSITION 16" x 10" TO 14" x 10" EXHAUST DUCT IN CHASE.
35. TRANSITION 30" DIA. TO 24" DIA. SUPPLY DUCT DOWN IN CHASE.
36. TRANSITION 28" DIA. TO 16" DIA. SUPPLY DUCT DOWN IN CHASE.
37. 72" x 18" RETURN AIR DUCT THRU CHASE WALL ABOVE CEILING, WITH FIRE DAMPER, AND OPEN TO CHASE AND CORRIDOR.
38. BALANCING VALVE AND ISOLATION VALVE LOCATED IN CORRIDOR CEILING SPACE.
39. 48" x 20" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
40. 20" x 14" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
41. 30" x 14" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
42. SUPPLY DIFFUSER (A), 400 CFM, 12" DIA. NECK SIZE.
43. 42" x 14" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
44. TRANSITION 16" x 12" TO 12" x 12" EXHAUST DUCT IN CHASE.
45. INSTALL THREE-WAY CONTROL @ DUCT MOUNTED HEATING COIL FOR THIS ZONE, SEE THREE-WAY VALVE COIL PIPING DETAIL.



GENERAL NOTES:

- CONTRACTOR TO COORDINATE INSTALLATION OF TERMINAL VAV BOXES AND HEATING COILS IN CEILING SPACES WITH OTHER TRADES TO ALLOW ADEQUATE SPACE FOR ACCESS FOR MAINTENANCE OF ALL COMPONENTS.
- ALL RECTANGULAR DUCT SIZES SHOWN ARE OUTSIDE DIMENSIONS. INSTALL 1" INTERIOR ACOUSTIC LINER IN RECTANGULAR ONLY WHERE NOTED. ROUND DUCTS SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED.
- ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER OR HIGH VELOCITY TAPE.
- PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.
- ALL DUCTWORK INSTALLED IN AREAS WITH CEILINGS TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE, (TIGHT TO THE BOTTOM OF THE STRUCTURE).
- ALL DUCT PENETRATIONS THRU THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT INSTALLATION. SIMILAR TO DUCT PENETRATION THRU ROOF ON EXHAUST FAN DETAIL.
- ALL DUCT PENETRATIONS THRU ROOF STRUCTURE SHALL BE PROVIDED WITH A WELDED STEEL ANGLE FRAME AROUND DUCT, BELOW ROOF DECKING. ANCHOR TO STRUCTURE AND DUCT AT APPROXIMATLEY 8" ON CENTERS.
- COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRUCTURAL DRAWINGS. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS.
- INSTALL "SPIN-IN" TYPE FITTINGS WITH BALANCING DAMPERS FOR ROUND BRANCH RUNOUTS TO EACH DIFFUSER A . BRANCH DUCTS TO DIFFUSERS SHALL BE OF EQUAL SIZE TO NECK DIAMETER.
- FLEXIBLE ROUND DUCT BRANCHES TO DIFFUSERS A SHALL BE PRE-INSULATED AND SHALL NOT EXCEED 4 FT. IN TOTAL LENGTH.
- THE SPACE ABOVE THE CEILING IS SERVING AS A RETURN AIR PLENUM. ALL AIR BEING SUPPLIED SHALL BE PROVIDED WITH RETURN AIR PATH BACK TO ITS ORIGIN. PROVIDE RETURN AIR OPENINGS IN WALLS EXTENDING THRU CEILING AND UP TO STRUCTURE. RETURN AIR OPENINGS SHALL EQUAL 1 SQ. FT. PER 300 CFM OF AIR BEING RETURNED, UNLESS OTHERWISE NOTED. PROVIDE WITH 180 DEGREE F. FIRE DAMPER IN FIRE RATED WALLS.
- COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT, SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.
- COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES AND REGISTERS TO BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILING PLAN AND LIGHTING PLAN.
- ALL 90-DEG. SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE THICK TURNING VANES.
- ALL FIRE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED.
- ALL THERMOSTATS SHALL BE MOUNTED UP 5'-6" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. PROVIDE APPROVED, VENTILATED LOCKING COVERS WITH GUARDS AT ALL THERMOSTATS UNLESS OTHERWISE DIRECTED.
- PROVIDE ACCESS DOORS IN FIXED CEILING, CHASES AND DUCTWORK TO ALL FIRE DAMPERS, BALANCING DAMPERS OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.
- B.D. - MANUAL BALANCING DAMPER.
- A.D. - ACCESS DOOR.
- A.L. - ACOUSTICAL LINER.
- A.F.F. - ABOVE FINISH FLOOR.
- T.V. - TURNING VANES.
- F.D. - FIRE DAMPER.
- BEFORE CONTRACTOR ORDERS ANY GRILLES, REGISTERS OR DIFFUSERS, HE SHALL VERIFY THE CEILING CONSTRUCTION IN ALL AREAS OF THE PROJECT. IF GRILLES, REGISTERS OR DIFFUSERS SPECIFIED ARE NOT COMPATIBLE WITH THE TYPE OF CEILING CONSTRUCTION, THE CONTRACTOR SHALL ORDER PROPER TYPE OF GRILLE, REGISTER OR DIFFUSER TO BE COMPATIBLE WITH THE CEILING.
- ALL HOT WATER BRANCH LINES OFF MAIN SHALL BE PROVIDED WITH A SWING JOINT.
- PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF ALL MECHANICAL HEATING HOT WATER PIPING.
- REFER TO APPROPRIATE COIL PIPING DETAILS FOR ARRANGEMENT OF PIPING, VALVING, AND ACCESSORIES.
- PROVIDE ON INLET SIDE, A MINIMUM OF TWO x INLET SIZE OF STRAIGHT SHEETMETAL ROUND DUCT PRIOR TO FLEXIBLE CONNECTION OF EACH TERMINAL VAV BOX.
- ALL RETURN AIR SOUND TRAPS SHALL BE CONSTRUCTED OF 1" RIGID ACOUSTICAL SOUND BOARD WITH ALL TAPED SEAMS TO BE AIR TIGHT. SOUND BAFFLES SHALL BE PROVIDED IN THE OPENINGS OF EACH TRAP. BAFFLES SHALL BE OF 1" SOUND BOARD AT 12" CENTERS, ARRANGED IN AN EGGCRATE PATTERN. SEAL ENTIRE TRAP TO INSURE THAT ALL RETURN AIR FLOWS THRU TRAP. SUSPEND TRAPS FROM STRUCTURE WITH 20GA. SHEETMETAL STRAPS TO BE RIGID AND SECURE. DIMENSIONS OF TRAPS SHALL BE AS DESIGNATED ON THE DRAWINGS.

SECOND FLOOR MECHANICAL PLAN

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

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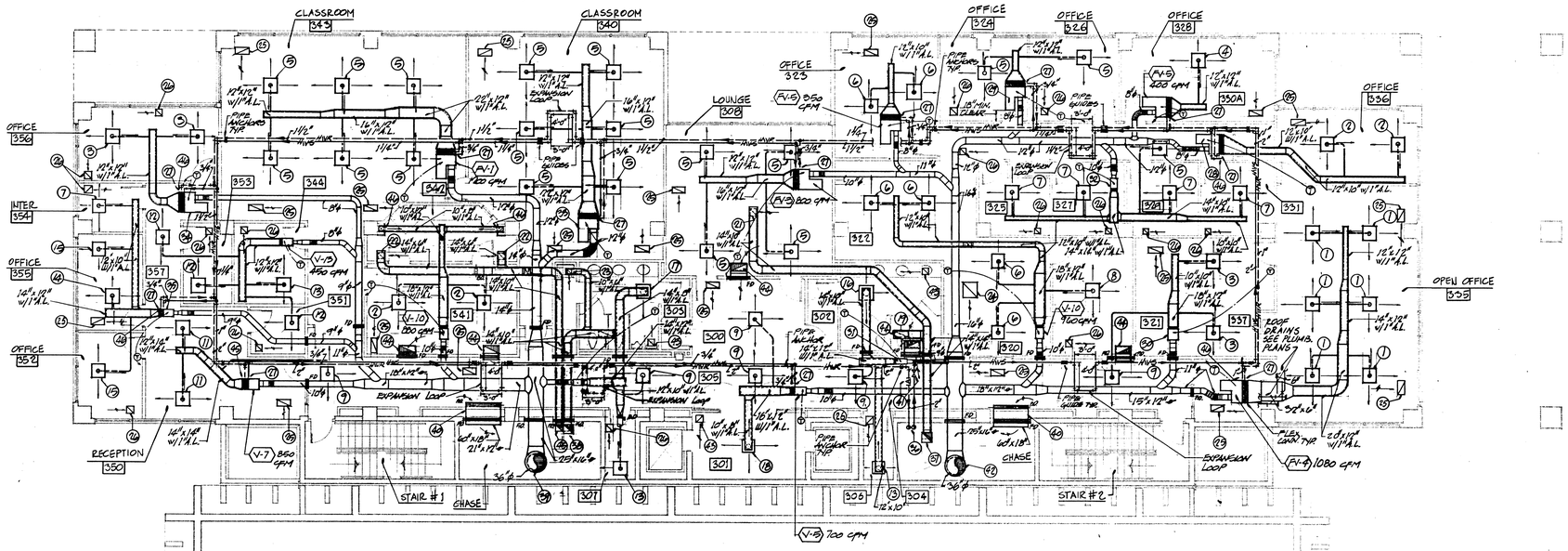
Project Number: 8506
Date: 4/14/86
Checked by: RJB
JLJ
Drawing Title: SECOND FLOOR MECHANICAL PLAN

Drawing: M2.3
Sheet: 11

KEYED NOTES:

1. SUPPLY DIFFUSER (A), 180 CFM, 8" DIA. NECK SIZE.
2. SUPPLY DIFFUSER (A), 190 CFM, 8" DIA. NECK SIZE.
3. SUPPLY DIFFUSER (A), 220 CFM, 8" DIA. NECK SIZE.
4. SUPPLY DIFFUSER (A), 400 CFM, 12" DIA. NECK SIZE.
5. SUPPLY DIFFUSER (A), 200 CFM, 8" DIA. NECK SIZE.
6. SUPPLY DIFFUSER (A), 175 CFM, 8" DIA. NECK SIZE.
7. SUPPLY DIFFUSER (A), 125 CFM, 6" DIA. NECK SIZE.
8. SUPPLY DIFFUSER (A), 260 CFM, 10" DIA. NECK SIZE.
9. SUPPLY DIFFUSER (A), 250 CFM, 10" DIA. NECK SIZE.
10. SUPPLY DIFFUSER (A), 140 CFM, 8" DIA. NECK SIZE.
11. SUPPLY DIFFUSER (A), 300 CFM, 10" DIA. NECK SIZE.
12. SUPPLY DIFFUSER (A), 100 CFM, 6" DIA. NECK SIZE.
13. SUPPLY DIFFUSER (A), 150 CFM, 8" DIA. NECK SIZE.
14. SUPPLY DIFFUSER (A), 170 CFM, 8" DIA. NECK SIZE.
15. SUPPLY DIFFUSER (A), 225 CFM, 8" DIA. NECK SIZE.
16. EXTEND 10" x 8" WITH 1" A.L. SUPPLY DUCT ACROSS CEILING, OVER TO CHASE. DROP DOWN IN CHASE TO A 10" x 10" SIDEWALL SUPPLY REGISTER AT 6" ABOVE FLOOR.
17. SUPPLY DIFFUSER (B), 300 CFM, 8" DIA. NECK SIZE, WITH 14" x 8" WITH 1" A.L. BRANCH DUCT.
18. SUPPLY DIFFUSER (B), 200 CFM, 8" DIA. NECK SIZE, WITH 10" x 8" WITH 1" A.L. BRANCH DUCT.
19. 24" x 12" EXHAUST REGISTER (F), 500 CFM.
20. 24" x 12" EXHAUST REGISTER (F), 400 CFM.
21. 12" x 12" EXHAUST REGISTER (E), 300 CFM.
22. 12" x 12" EXHAUST REGISTER (E), 250 CFM.
23. 8" x 8" EXHAUST REGISTER (F), 100 CFM.
24. 24" x 24" RETURN AIR GRILLE (C), WITH 24" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
25. 24" x 12" RETURN AIR GRILLE (C), WITH 14" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
26. 12" x 12" RETURN AIR GRILLE (C), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
27. HOT WATER COIL CONNECTIONS. SEE EQUIPMENT SCHEDULE FOR 2-WAY OR 3-WAY VALVE REQUIREMENTS, ALSO REFER TO DETAILS FOR VALVING AND PIPING ARRANGEMENT.
28. (FV-5), 380 CFM.
29. (FV-5), 400 CFM.
30. (V-12), 690 CFM.
31. (V-13), 450 CFM.
32. (V-12), 700 CFM.
33. (FV-1), 1200 CFM.
34. (FV-5), 450 CFM.
35. (V-5), 620 CFM.
36. 3" HWS AND 3" HWR PIPING IN CHASE.
37. TRANSITION 16" x 16" TO 16" x 10" EXHAUST DUCT IN CHASE.
38. TRANSITION 16" x 16" TO 16" x 12" EXHAUST DUCT IN CHASE.
39. TRANSITION 36" DIA. SUPPLY DUCT DOWN IN CHASE.
40. 60" x 18" RETURN AIR DUCT THRU CHASE WALL OPEN IN CHASE AND CORRIDOR.
41. BALANCING VALVES AND ISOLATION VALVES LOCATED IN CORRIDOR CEILING SPACE.
42. TRANSITION 36" DIA. TO 30" DIA. SUPPLY DUCT DOWN IN CHASE.
43. 12" x 12" RETURN AIR GRILLE (D), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
44. 28" x 14" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
45. 14" x 12" WITH 1" A.L. EXHAUST DUCT THRU CHASE WALL WITH A 1 HOUR, 160° F. FIRE DAMPER AND UP IN CHASE TO PENTHOUSE.
46. INSTALL THREE-WAY CONTROL @ DUCT MOUNTED HEATING COIL FOR THIS ZONE, SEE THREE-WAY VALVE FOR PIPING DETAIL.



GENERAL NOTES:

- CONTRACTOR TO COORDINATE INSTALLATION OF TERMINAL VAV BOXES AND HEATING COILS IN CEILING SPACES WITH OTHER TRADES TO ALLOW ADEQUATE SPACE FOR ACCESS FOR MAINTENANCE OF ALL COMPONENTS.
- ALL RECTANGULAR DUCT SIZES SHOWN ARE OUTSIDE DIMENSIONS. INSTALL 1" INTERIOR ACOUSTIC LINER IN RECTANGULAR ONLY WHERE NOTED. ROUND DUCTS SHALL BE EXTERNALLY INSULATED. UNLESS OTHERWISE NOTED.
- ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER OR HIGH VELOCITY TAPE.
- PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.
- ALL DUCTWORK INSTALLED IN AREAS WITH CEILINGS TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE. (TIGHT TO THE BOTTOM OF THE STRUCTURE).
- ALL DUCT PENETRATIONS THRU THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT INSTALLATION, SIMILAR TO DUCT PENETRATION THRU ROOF ON EXHAUST FAN DETAIL.
- ALL DUCT PENETRATIONS THRU ROOF STRUCTURE SHALL BE PROVIDED WITH A WELDED STEEL ANGLE FRAME AROUND DUCT, BELOW ROOF DECKING, ANCHOR TO STRUCTURE AND DUCT AT APPROXIMATLEY 8' ON CENTERS.
- COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRUCTURAL DRAWINGS. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS.
- INSTALL "SPIN-IN" TYPE FITTINGS WITH BALANCING DAMPERS FOR ROUND BRANCH RUNOUTS TO EACH DIFFUSER A . BRANCH DUCTS TO DIFFUSERS SHALL BE OF EQUAL SIZE TO NECK DIAMETER.
- FLEXIBLE ROUND DUCT BRANCHES TO DIFFUSERS A SHALL BE PRE-INSULATED AND SHALL NOT EXCEED 4 FT. IN TOTAL LENGTH.
- THE SPACE ABOVE THE CEILING IS SERVING AS A RETURN AIR PLENUM. ALL AIR BEING SUPPLIED SHALL BE PROVIDED WITH RETURN AIR PATH BACK TO ITS ORIGIN. PROVIDE RETURN AIR OPENINGS IN WALLS EXTENDING THRU CEILING AND UP TO STRUCTURE. RETURN AIR OPENINGS SHALL EQUAL 1 SQ. FT. PER 500 CFM OF AIR BEING RETURNED, UNLESS OTHERWISE NOTED. PROVIDE WITH 160 DEGREE F. FIRE DAMPER IN FIRE RATED WALLS.
- COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT, SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.
- COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES AND REGISTERS TO BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILING PLAN AND LIGHTING PLAN.
- ALL 90-DEG. SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE THICK TURNING VANES.
- ALL FIRE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED.
- ALL THERMOSTATS SHALL BE MOUNTED UP 5'-6" ABOVE FINISHED FLOOR. UNLESS OTHERWISE NOTED. PROVIDE APPROVED, VENTILATED LOCKING COVERS WITH GUARDS AT ALL THERMOSTATS. UNLESS OTHERWISE DIRECTED.
- PROVIDE ACCESS DOORS IN FIXED CEILING, CHASES AND DUCTWORK TO ALL FIRE DAMPER BALANCING DAMPERS OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.
- B.D. - MANUAL BALANCING DAMPER.
- A.D. - ACCESS DOOR.
- A.L. - ACOUSTICAL LINER.
- A.F.F. - ABOVE FINISH FLOOR.
- T.V. - TURNING VANES.
- F.D. - FIRE DAMPER.
- BEFORE CONTRACTOR ORDERS ANY GRILLES, REGISTERS OR DIFFUSERS, HE SHALL VERIFY THE CEILING CONSTRUCTION IN ALL AREAS OF THE PROJECT. IF GRILLES, REGISTERS OR DIFFUSERS SPECIFIED ARE NOT COMPATIBLE WITH THE TYPE OF CEILING CONSTRUCTION, THE CONTRACTOR SHALL ORDER PROPER TYPE OF GRILLE, REGISTER OR DIFFUSER TO BE COMPATIBLE WITH THE CEILING.
- ALL HOT WATER BRANCH LINES OFF MAIN SHALL BE PROVIDED WITH A SWING JOINT.
- PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF ALL MECHANICAL HEATING HOT WATER PIPING.
- REFER TO APPROPRIATE COIL PIPING DETAILS FOR ARRANGEMENT OF PIPING, VALVING, AND ACCESSORIES.
- PROVIDE ON INLET SIDE, A MINIMUM OF TWO x INLET SIZE OF STRAIGHT SHEETMETAL ROUND DUCT PRIOR TO FLEXIBLE CONNECTION OF EACH TERMINAL VAV BOX.
- ALL RETURN AIR SOUND TRAPS SHALL BE CONSTRUCTED OF 1" RIGID ACOUSTICAL SOUND BOARD WITH ALL TAPED SEAMS TO BE AIR TIGHT. SOUND BAFFLES SHALL BE PROVIDED IN THE OPENINGS OF EACH TRAP. BAFFLES SHALL BE OF 1" SOUND BOARD AT 12" CENTERS, ARRANGED IN AN EGGCRATE PATTERN. SEAL ENTIRE TRAP TO INSURE THAT ALL RETURN AIR FLOWS THRU TRAP. SUSPEND TRAPS FROM STRUCTURE WITH 20GA. SHEETMETAL STRAPS TO BE RIGID AND SECURE. DIMENSIONS OF TRAPS SHALL BE AS DESIGNATED ON THE DRAWINGS.

THIRD FLOOR MECHANICAL PLAN

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

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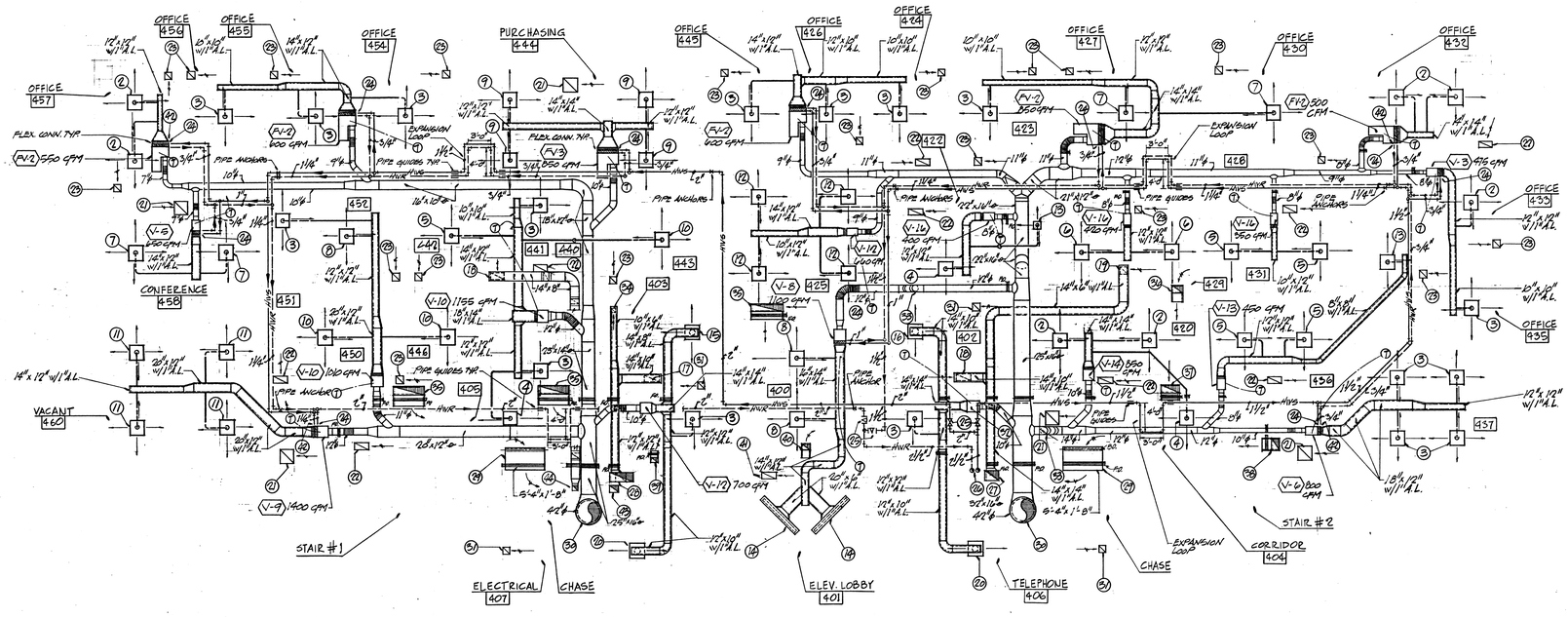
Project Number: 8506
Date: 4/14/86
Checked by: RJB
JLJ
Drawing Title: THIRD FLOOR MECHANICAL PLAN

Drawing M2.4
Sheet 16 of 111

KEYED NOTES:

1. SUPPLY DIFFUSER (A), 365 CFM, 12" DIA. NECK SIZE.
2. SUPPLY DIFFUSER (A), 275 CFM, 10" DIA. NECK SIZE.
3. SUPPLY DIFFUSER (A), 200 CFM, 8" DIA. NECK SIZE.
4. SUPPLY DIFFUSER (A), 300 CFM, 10" DIA. NECK SIZE.
5. SUPPLY DIFFUSER (A), 175 CFM, 8" DIA. NECK SIZE.
6. SUPPLY DIFFUSER (A), 210 CFM, 8" DIA. NECK SIZE.
7. SUPPLY DIFFUSER (A), 325 CFM, 10" DIA. NECK SIZE.
8. SUPPLY DIFFUSER (A), 250 CFM, 10" DIA. NECK SIZE.
9. SUPPLY DIFFUSER (A), 212 CFM, 8" DIA. NECK SIZE.
10. SUPPLY DIFFUSER (A), 280 CFM, 10" DIA. NECK SIZE.
11. SUPPLY DIFFUSER (A), 350 CFM, 10" DIA. NECK SIZE.
12. SUPPLY DIFFUSER (A), 165 CFM, 8" DIA. NECK SIZE.
13. SUPPLY DIFFUSER (A), 100 CFM, 6" DIA. NECK SIZE.
14. 6'-0" LONG, 2-SLOT LINEAR DIFFUSER (L), 300 CFM, TOTAL WITH CONTINUOUS 12" x 10" WITH 1" A.L. PLENUM ABOVE.
15. SUPPLY DIFFUSER (B), 200 CFM, 8" DIA. NECK SIZE, WITH 10" x 8" WITH 1" A.L. BRANCH DUCT.
16. SUPPLY DIFFUSER (B) 200 CFM, 8" DIA. NECK SIZE, WITH 10" x 8" WITH 1" A.L. BRANCH DUCT.
17. 24" x 12" EXHAUST REGISTER (F), 400 CFM.
18. 24" x 12" EXHAUST REGISTER (F), 500 CFM.
19. 12" x 12" EXHAUST REGISTER (E), 200 CFM.
20. SUPPLY DIFFUSER (B), 300 CFM, 10" DIA. NECK SIZE, WITH 12" x 10" WITH 1" A.L. BRANCH DUCT.
21. 24" x 24" RETURN AIR GRILLE (C), WITH 24" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
22. 24" x 12" RETURN AIR GRILLE (C), WITH 14" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
23. 12" x 12" RETURN AIR GRILLE (C), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
24. HOT WATER COIL CONNECTIONS. SEE EQUIPMENT SCHEDULE FOR 2-WAY OR 3-WAY VALVE REQUIREMENTS, ALSO REFER TO DETAILS FOR VALVING AND PIPING ARRANGEMENT.
25. BALANCING VALVES AND ISOLATION VALVES LOCATED IN CORRIDOR CEILING SPACE.
26. 4" HWS AND 4" HWR PIPING IN CHASE.
27. TRANSITION 20" x 16" TO 16" x 16" EXHAUST DUCT IN CHASE.
28. TRANSITION 38" x 16" TO 16" x 16" EXHAUST DUCT IN CHASE.
29. 64" x 20" RETURN AIR DUCT THRU CHASE WALL OPEN IN CHASE AND CORRIDOR.
30. TRANSITION 42" DIA. TO 36" DIA. SUPPLY DUCT DOWN IN CHASE.
31. 12" x 12" RETURN AIR GRILLE (D), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
32. (V-12), 700 CFM.
33. DROP 12" DIA. SUPPLY DUCT DOWN BELOW BEAM.
34. 8" x 8" RETURN AIR GRILLE (D) WITH 10" x 6" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
35. 52" x 14" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
36. 18" x 12" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
37. 32" x 14" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
38. 20" x 14" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
39. 12" x 8" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
40. 14" x 12" WITH 1" A.L. R.A. TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING.
41. 24" x 12" RETURN AIR GRILLE (D) WITH 14" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
42. INSTALL THREE-WAY CONTROL @ DUCT MOUNTED HEATING COIL FOR THIS ZONE, SEE THREE-WAY VALVE COIL PIPING DETAIL.
43. 14" x 12" W/1" A.L. EXHAUST DUCT IN CHASE UP FROM BELOW.
44. TRANSITION 14" x 8" EXHAUST DUCT TO 10" x 10" EXHAUST DUCT UP IN CHASE.



GENERAL NOTES:

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- ALL DUCTWORK INSTALLED IN AREAS WITH CEILINGS TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE, (TIGHT TO THE BOTTOM OF THE STRUCTURE).
- ALL DUCT PENETRATIONS THRU THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT INSTALLATION, SIMILAR TO DUCT PENETRATION THRU ROOF ON EXHAUST FAN DETAIL.
- ALL DUCT PENETRATIONS THRU ROOF STRUCTURE SHALL BE PROVIDED WITH A WELDED STEEL ANGLE FRAME AROUND DUCT, BELOW ROOF DECKING. ANCHOR TO STRUCTURE AND DUCT AT APPROXIMATLEY 8' ON CENTERS.
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- COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT, SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.
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- ALL FIRE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED.
- ALL THERMOSTATS SHALL BE MOUNTED UP 5'-6" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. PROVIDE APPROVED, VENTILATED LOCKING COVER WITH GUARDS AT ALL THERMOSTATS, UNLESS OTHERWISE DIRECTED.
- PROVIDE ACCESS DOORS IN FIXED CEILING, CHASES AND DUCTWORK TO ALL FIRE DAMPERS, BALANCING DAMPERS OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.
- B.D. - MANUAL BALANCING DAMPER.
- A.D. - ACCESS DOOR.
- A.L. - ACOUSTICAL LINER.
- A.F.F. - ABOVE FINISH FLOOR.
- T.V. - TURNING VANES.
- F.D. - FIRE DAMPER.
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- REFER TO APPROPRIATE COIL PIPING DETAILS FOR ARRANGEMENT OF PIPING, VALVING, AND ACCESSORIES.
- PROVIDE ON INLET SIDE, A MINIMUM OF TWO x INLET SIZE OF STRAIGHT SHEETMETAL ROUND DUCT PRIOR TO FLEXIBLE CONNECTION OF EACH TERMINAL VAV BOX.
- ALL RETURN AIR SOUND TRAPS SHALL BE CONSTRUCTED OF 1" RIGID ACOUSTICAL SOUND BOARD WITH ALL TAPED SEAMS TO BE AIR TIGHT. SOUND BAFFLES SHALL BE PROVIDED IN THE OPENINGS OF EACH TRAP. BAFFLES SHALL BE OF 1" SOUND BOARD AT 12" CENTERS, ARRANGED IN AN EGGCRATE PATTERN. SEAL ENTIRE TRAP TO INSURE THAT ALL RETURN AIR FLOWS THRU TRAP. SUSPEND TRAPS FROM STRUCTURE WITH 20GA. SHEETMETAL STRAPS TO BE RIGID AND SECURE. DIMENSIONS OF TRAPS SHALL BE AS DESIGNATED ON THE DRAWINGS.

FOURTH FLOOR MECHANICAL PLAN

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

CHARLES D. SCHECK NEW MEXICO 8853 REGISTERED PROFESSIONAL ENGINEER

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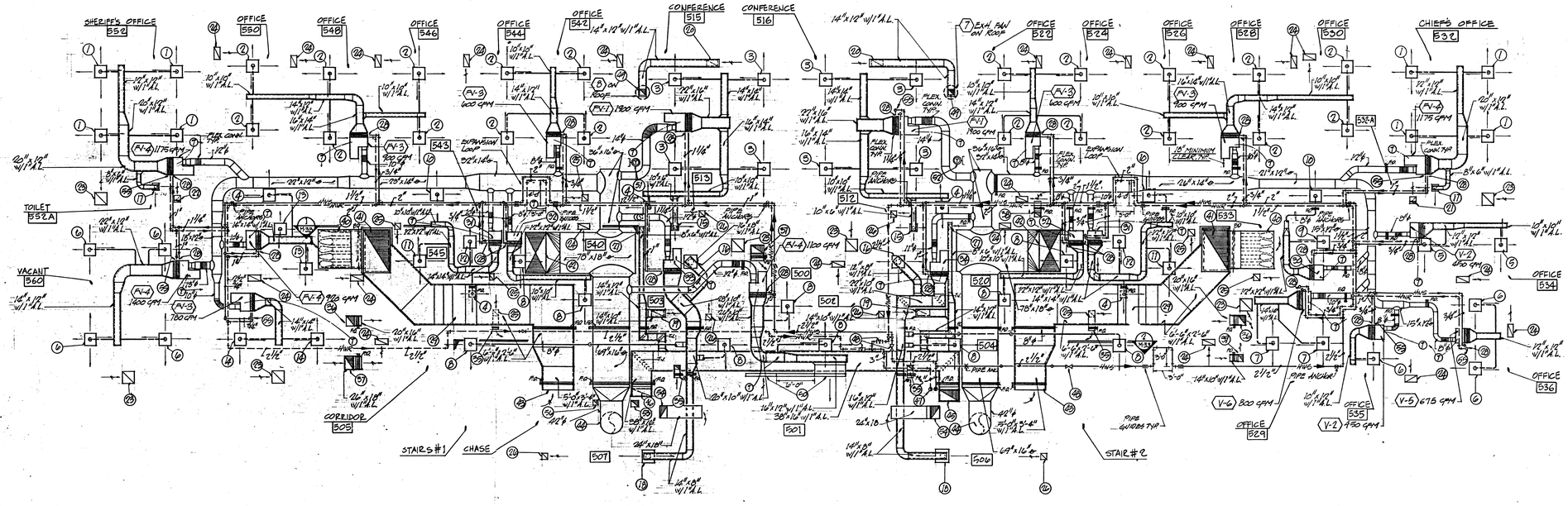
Project Number: 8590
Date: APR. 14, 1990
Checked by: RJD
Drawing Title: FOURTH FLOOR MECHANICAL PLAN

Drawing M2.5
Sheet 19 of 111

KEYED NOTES:

1. SUPPLY DIFFUSER (A), 275 CFM, 10" DIA. NECK SIZE.
2. SUPPLY DIFFUSER (A), 150 CFM, 8" DIA. NECK SIZE.
3. SUPPLY DIFFUSER (A), 425 CFM, 12" DIA. NECK SIZE.
4. SUPPLY DIFFUSER (A), 100 CFM, 6" DIA. NECK SIZE.
5. SUPPLY DIFFUSER (A), 225 CFM, 8" DIA. NECK SIZE.
6. SUPPLY DIFFUSER (A), 350 CFM, 10" DIA. NECK SIZE.
7. SUPPLY DIFFUSER (A), 400 CFM, 12" DIA. NECK SIZE.
8. SUPPLY DIFFUSER (A), 250 CFM, 8" DIA. NECK SIZE.
9. SUPPLY DIFFUSER (A), 270 CFM, 10" DIA. NECK SIZE.
10. SUPPLY DIFFUSER (A), 200 CFM, 8" DIA. NECK SIZE.
11. SUPPLY DIFFUSER (A), 300 CFM, 10" DIA. NECK SIZE.
12. SUPPLY DIFFUSER (A), 120 CFM, 6" DIA. NECK SIZE.
13. SUPPLY DIFFUSER (A), 410 CFM, 12" DIA. NECK SIZE.
14. SUPPLY DIFFUSER (A), 390 CFM, 12" DIA. NECK SIZE.
15. SUPPLY DIFFUSER (B), 100 CFM, 6" DIA. NECK SIZE, WITH 10" X 6" WITH 1" A.L. BRANCH DUCT.
16. SUPPLY DIFFUSER (B), 200 CFM, 8" DIA. NECK SIZE, WITH 12" x 8" WITH 1" A.L. BRANCH DUCT.
17. SUPPLY DIFFUSER (B) 75 CFM, 6" DIA, NECK SIZE, WITH 8" x 6" WITH I " A.L. BRANCH DUCT.
18. SUPPLY DIFFUSER (B), 300 CFM, 10" DIA. NECK SIZE, WITH 14" x 8" WITH 1" A.L. BRANCH DUCT.
19. 24" x 12" EXHAUST REGISTER (F), 500 CFM.
20. 24" x 12" EXHAUST REGISTER (E), 600 CFM.
21. CEILING EXHAUSTER (34), 130 CFM, WITH 10" x 4" EXHAUST DUCT UP THRU ROOF TO ROOF JACK.
22. CEILING EXHAUSTER (35), 130 CFM, WITH 10" x 4" EXHAUST DUCT UP THRU ROOF TO ROOF JACK.
23. 24" x 24" RETURN AIR GRILLE (C), WITH 24" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
24. 24" x 12" RETURN AIR GRILLE (C), WITH 14" x 12" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
25. 12" x 12" RETURN AIR GRILLE (C), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL.
26. 12" x 12" RETURN AIR GRILLE (D), WITH 14" x 8" WITH 1" A.L. DUCT SOUND TRAP IN CEILING. SEE DETAIL
27. 10" x 6" EXHAUST REGISTER (E), 75 CFM.
28. HOT WATER COIL CONNECTIONS. SEE EQUIPMENT SCHEDULE FOR 2-WAY OR 3-WAY VALVE REQUIREMENTS, ALSO REFER TO DETAILS FOR VALVING AND PIPING ARRANGEMENT.
29. 6'-6' x 2'-6" WITH 1" A.L. RETURN AIR DUCT IN CEILING SPACE.
30. (V-2), 450 CFM.
31. (V-5), 720 CFM.
32. (V-3), 500 CFM.
33. (FV-3), 700 CFM. PROVIDE 24" x 24" ACCESS DOOR AS SHOWN ON PLAN, SEE ARCH. DRAWING.
34. (FV-4), 700 CFM. PROVIDE 24" x 24" ACCESS DOOR AS SHOWN ON PLAN, SEE ARCH. DRAWING.
35. 12" x 8" WITH 1" A.L. RETURN AIR TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING SPACE.
36. 20" x 16" WITH 1" A.L. RETURN AIR TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING SPACE.
37. 26" x 18" WITH 1" A.L. RETURN AIR TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING SPACE.
38. 12" x 10" WITH 1" A.L. RETURN AIR TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING SPACE.
39. 14" x 10" WITH 1" A.L. RETURN AIR TRANSFER DUCT THRU WALL ABOVE CEILING WITH DUCT ELBOW TURNED UP MIN. OF 6" IN ADJACENT CEILING SPACE.
40. 72" x 18" x 5'-0" SOUND TRAP (15), IN CEILING SPACE CONNECT TO RETURN AIR PLENUM.
41. 82" x 52" RETURN AIR OPENING THRU ROOF FROM ROOFTOP UNIT WITH SMOKE DAMPERS.
42. 78" x 40" SUPPLY AIR OPENING THRU ROOF FROM ROOFTOP UNIT WITH SMOKE DAMPERS.
43. 5'-0" x 3'-4" RETURN AIR OPEN IN CHASE.
44. 42" DIA. SUPPLY AIR DUCT DOWN IN CHASE.
45. 40" x 24" WITH 1" A.L. EXHAUST DUCT THRU ROOF TO EXHAUST FAN IN PENTHOUSE. TRANSITION 40" x 24" TO 20" x 16" DOWN IN CHASE.
46. 38" x 16" WITH 1" A.L. EXHAUST DUCT UP IN CHASE FROM TOILETS BELOW.
47. 5 " HWS AND 5 " HWR IN CHASE, SEE FOURTH FLOOR FOR CONTINUATION.
48. BALANCING VALVES AND ISOLATION VALVES LOCATED IN CEILING SPACE TO BE ACCESSIBLE.
49. 12" x 12" EXHAUST DUCT THRU ROOF FROM EXHAUST FAN CONNECT TO 14" x 12" WITH 1" A.L.
50. 16'-0" LONG CONTINUOUS 3-SLOT (J), 5'-0" FOR SUPPLY @ 600 CFM, 6'-0" BLANKED OFF IN CENTER, AND 5'-0" OPEN FOR RETURN AIR TO LOBBY CEILING SPACE.
51. LOCATION OF NIGHT SETBACK THERMOSTAT FOR WEST AIR HANDLING SYSTEM. MOUNT UP ON WALL, 5'-6" ABOVE FLOOR IN A LOCKING, VENTILATED COVER. LABEL "NIGHT STAT" AND SET @ 60° F.
52. LOCATION OF NIGHT SETBACK THERMOSTAT FOR EAST AIR HANDLING SYSTEM. MOUNT UP ON WALL 5'-6" ABOVE FLOOR IN A LOCKING, VENTILATED COVER. LABEL "NIGHT STAT" AND SET @ 60° F.
53. 14" x 12" WITH 1" A.L. EXHAUST DUCT FROM THIRD FLOOR UP THRU FLOOR TO PENTHOUSE TO EXHAUST FAN (22).
54. 24" x 18" ELEVATOR SHAFT VENTILATION DUCT UP THRU FLOOR TO PENTHOUSE.
55. INSTALL THREE-WAY CONTROL @ DUCT MOUNTED HEATING COIL FOR THIS ZONE, SEE THREE-WAY VALVE COIL PIPING DETAIL.
56. 10"x10" EXHAUST DUCT UP THRU FLOOR FROM BELOW TO PENTHOUSE TO EXHAUST FAN (22A)



GENERAL NOTES:

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- ALL RECTANGULAR DUCT SIZES SHOWN ARE OUTSIDE DIMENSIONS. INSTALL 1" INTERIOR ACOUSTIC LINER IN RECTANGULAR ONLY WHERE NOTED. ROUND DUCTS SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED.
- ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER OR HIGH VELOCITY TAPE.
- PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.
- ALL DUCTWORK INSTALLED IN AREAS WITH CEILINGS TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE, (TIGHT TO THE BOTTOM OF THE STRUCTURE).
- ALL DUCT PENETRATIONS THRU THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT INSTALLATION, SIMILAR TO DUCT PENETRATION THRU ROOF ON EXHAUST FAN DETAIL.
- ALL DUCT PENETRATIONS THRU ROOF STRUCTURE SHALL BE PROVIDED WITH A WELDED STEEL ANGLE FRAME AROUND DUCT, BELOW ROOF DECKING. ANCHOR TO STRUCTURE AND DUCT AT APPROXIMATELEY 8" ON CENTERS.
- COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRICTURAL DRAWINGS. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS.
- INSTALL "SPIN-IN" TYPE FITTINGS WITH BALANCING DAMPERS FOR ROUD BRANCH RUNOUTS TO EACH DIFFUSER A . BRANCH DUCTS TO DIFFUSERS SHALL BE OF EQAL SIZE TO NECK DIAMETER.
- FLEXIBLE ROUND DUCT BRANCHES TO DIFFUSERS A SHALL BE PRE-INSULATED AND SHALL NOT EXCEED 4 FT. IN TOTAL LENGTH.
- THE SPACE ABOVE THE CEILING IS SERVING AS A RETURN AIR PLENUM. ALL AIR BEING SUPPLIED SHALL BE PROVIDED WITH RETURN AIR PATH BACK TO ITS ORIGIN. PROVIDE RETURN AIR OPENINGS IN WALLS EXTENDING THRU CEILING AND UP TO STRUCTURE. RETURNAIR OPENINGS SHALL EQUAL 1 SQ. FT. PER 500 CFM OF AIR BEING RETURNED, UNLESS OTHERWISE NOTED. PROVIDE WITH 180 DEGREE F. FIRE DAMPER IN FIRE RATED WALLS.
- COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE EBIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT, SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.
- COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES AND REGISTERS O BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILIG PLAN AND LIGHTING PLAN.
- ALL 90-DEG. SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE THIC TURNING VANES.
- ALL FIRE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED.
- ALL THERMOSTATS SHALL BE MOUNTED UP 5'-6" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED, PROVIDE APPROVED, VENTILATED LOCKING COVERS WITH GUARDS AT ALL THERMOSTATS, UNLESS OTHERWISE DIRECTED.
- PROVIDE ACCESS DOORS IN FIXED CEILING, CHASES AND DUCTWORK TO ALL FIRE DAMPERS. BALANCING DAMPERS OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.
- B.D. - MANUAL BALANCING DAMPER.
- A.D. - ACCESS DOOR.
- A.L. - ACOUSTICAL LINER.
- A.F.F. - ABOVE FINISH FLOOR.
- T.V. - TURNING VANES.
- F.D. - FIRE DAMPER.
- BEFORE CONTRACTOR ORDERS ANY GRILLES, REGISTERS OR DIFFUSERS, HE SHALL VERIFY THE CEILING CONSTRUCTION IN ALL AREAS OF THE PROJECT. IF GRILLES, REGISTERS OR DIFFUSERS SPECIFIED ARE NOT COMPATIBLE WITH THE TYPE OF CEILING CONSTRUCTION, THE CONTRACTOR SHALL ORDER PROPER TYPE OF GRILLE, REGISTER OR DIFFUSER TO BE COMPATIBLE WITH THE CEILING.
- ALL HOT WATER BRANCH LINES OFF MAIN SHALL BE PROVIDED WITH A SWING JOINT.
- PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF ALL MECHANICAL HEATING HOT WATER PIPING.
- REFER TO APPROPRIATE COIL PIPING DETAILS FOR ARRANGEMENT OF PIPING, VALVING, AND ACCESSORIES.
- PROVIDE ON INLET SIDE, A MINIMUM OF TWO x INLET SIZE OF STRAIGHT SHEETMETAL ROUND DUCT PRIOR TO FLEXIBLE CONNECTION OF EACH TERMINAL VAV BOX.
- ALL RETURN AIR SOUND TRAPS SHALL BE CONSTRUCTED OF 1" RIGID ACOUSTICAL SOUND BOARD WITH ALL TAPED SEAMS TO BE AIR TIGHT. SOUND BAFFLES SHALL BE PROVIDED IN THE OPENINGS OF EACH TRAP. BAFFLES SHALL BE OF 1" SOUND BOARD AT 12" CENTERS, ARRANGED IN AN EGGCRATE PATTERN. SEAL ENTIRE TRAP TO INSURE THAT ALL RETURN AIR FLOWS THRU TRAP, SUSPEND TRAPS FROM STRUCTURE WITH 20GA. SHEETMETAL STRAPS TO BE RIGID AND SECURE. DIMENSIONS OF TRAPS SHALL BE AS DESIGNATED ON THE DRAWINGS.

FIFTH FLOOR MECHANICAL PLAN

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

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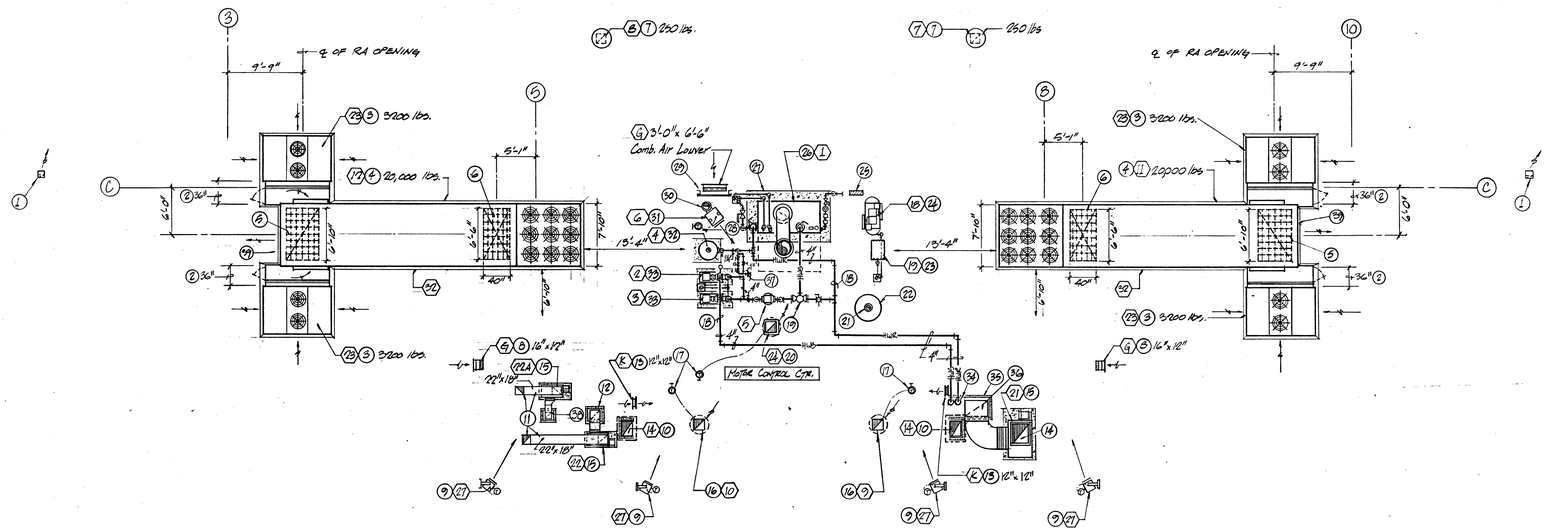
Project Number: 8506
Date: APR. 14, 1986
Checked by: RJD
Drawing Title: FIFTH FLOOR MECHANICAL PLAN

Drawing M2.6
Sheet 80 of 111

KEYED NOTES:

1. 10"x 4" GOOSENECK UP THRU ROOF FROM CEILING EXHAUST FAN AT 5TH FLOOR LEVEL. SEE GOOSENECK DETAIL.
2. ALLOW FOR 36" CLEARANCE BETWEEN PRE-COOLER AND ROOFTOP A/C UNIT FOR INSTALLATION OF A 30" WIDE ACCESS DOOR.
3. PRE-COOLER UNIT SHALL BE INSTALLED AS PART OF THE *DEDUCTIVE* ALTERNATE ONLY. THE CONNECTING PLENUM, FLEXIBLE CONNECTION AND ACCESS DOOR SHALL ALSO ONLY BE INSTALLED AS A PART OF THE SAME ADDITIVE ALTERNATE.
4. INSTALL A/C ROOFTOP UNIT ON A FACTORY CURB AND AN ISOLATION CURB AS DETAILED ON SHEET M 3.3.
5. 52" x 6'-10" MAIN RETURN AIR DUCT UP THRU ROOF TO A/C UNIT. PROVIDE AND INSTALL 1/2" DIA., STEEL BURGLAR BARS @ 6" O.C. EACH WAY. WELD BARS TOGETHER @ EACH INTERSECTION FOR A SECURE INSTALLATION.
6. 40" x 6'-6" MAIN SUPPLY AIR DUCT UP THRU ROOF TO A/C UNIT. INSTALL BURGLAR BARS AS DESCRIBED IN (5).
7. EXHAUST FAN ON ROOF WITH 14" x 14" EXHAUST DUCT DOWN THRU ROOF TO 5TH FLOOR. SEE EXHAUST FAN DETAIL.
8. 16" X 12" WALL LOUVER WITH INSECT SCREEN, 16" x 12" x 2" FILTER AND FRAME IN WALL AT 6'0" ABOVE FLOOR.
9. MOUNT ELECTRIC UNIT HEATER UP AT ELEVATION RECOMMENDED BY THE MANUFACTURERS REPRESENTATIVE. SECURE TO WALL WITH FACTORY MOUNTING BRACKET.
10. 24" x 18" ELEVATOR SHAFT VENTILATION DUCT UP, EXPOSED, ON WALL. SECURE TO WALL WITH 20 GA. SHEET METAL ANGLES. EXTEND DUCT UP THRU ROOF TO GRAVITY VENTILATOR (14).
11. 22" x 18" EXHAUST DUCT UP THRU ROOF TO GOOSENECK. SEE GOOSENECK DETAIL FOR INSTALLATION. HOLD DUCT TIGHT TO THE BOTTOM OF THE JOISTS.
12. 14" x 12" EXHAUST DUCT UP THRU FLOOR, FROM CHASE, TO CONNECT TO FAN WITH FLEXIBLE CONNECTION. PROVIDE A 4" CONCRETE CURB AROUND DUCT PENETRATION. SEAL AROUND CURB AND DUCT TO BE WATERTIGHT.
13. 12" x 12" TRANSFER GRILLE ON EACH SIDE OF WALL, MOUNT UP 7'-0" ON WALL.
14. 24" x 30" EXHAUST DISCHARGE AIR DUCT EXTENDS UP THRU ROOF TO GOOSENECK. SEE GOOSENECK DETAIL. CONNECT TO EXHAUST FAN WITH FLEXIBLE CONNECTION.
15. INSTALL EXHAUST FAN ON STEEL RAIL SUPPORTS WITH ISOLATOR SPRINGS TO BE LEVEL. CONNECT TO INLET AND OUTLET OF FAN WITH FLEX CONNECTIONS. SEE UTILITY EXHAUST FAN DETAIL.
16. 16" x 16" EXHAUST DUCT UP THRU ROOF OF ELEVATOR EQUIPMENT ROOM TO EXHAUST FAN. SEE EXHAUST FAN DETAIL.
17. MOUNT VENTILATION THERMOSTAT ON WALL, UP 5'-6". SEE THERMOSTAT @ 80° F AND LABEL ACCORDINGLY.
18. INSTALL AND ROUTE PIPING UP AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. INSTALL 1/4" MANUAL AIR VENTS @ ALL HIGH POINTS. SUPPORT AND LABEL ALL PIPING IN ACCORDANCE WITH THE SPECIFICATIONS.
19. LOCATION OF 3-WAY MODULATING CONTROL VALVE, SEE CONTROLS AND HEATING SYSTEM PIPING DIAGRAMS.
20. 18" x 18" EXHAUST DUCT UP THRU ROOF TO PENTHOUSE EQUIPMENT ROOM SUPPLY AIR FAN. INSTALL AN 18" x 18" (F) REGISTER @ TERMINATION OF DUCT, JUST BELOW STRUCTURE. PROVIDE PNEUMATIC MOTORIZED DAMPER IN THROAT.
21. CONNECT 6" Ø FLUE TO WATER HEATER AND EXTEND UP THRU PENTHOUSE ROOF IN A 2" VENTILATED SLEEVE. SEE BOILER FLUE THRU ROOF FOR SIMILAR INSTALLATION.
22. LOCATION OF DOMESTIC WATER HEATER, SEE PLUMBING SYSTEM FLOOR PLANS.
23. MOUNT REFRIGERATED AIR DRYER ON ANGLE IRON, FLOOR MOUNTED STAND (ALSO SECURE STAND TO WALL) UP APPROXIMATELY 48" ABOVE FLOOR.
24. LOCATION OF CENTRAL CONTROL AIR COMPRESSOR. SEE CONTROL DIAGRAMS FOR INSTALLATION.
25. MOUNT PNEUMATIC CONTROLS AND SYSTEM READOUT PANEL @ THIS LOCATION, UP 4'-0" ABOVE FLOOR, ANCHORED TO WALL TO BE SECURE.
26. INSTALL HEATING SYSTEM BOILER ON A 4" HIGH, STEEL REINFORCED CONCRETE SLAB. SEE HEATING SYSTEM FLOW DIAGRAM FOR INSTALLATION DETAILS.
27. EXTEND ALL TEMPERATURE/PRESSURE RELIEF VALVE PIPING, BLOW-DOWN PIPING AND AIR VENT DISCHARGE PIPING FULL SIZE TO FLOOR SINKS. ROUTE PIPING TO MAXIMIZE ACCESS TO BOILER ACCESSORIES.
28. MOUNT ELECTRIC HEATING THERMOSTAT UP 5'-6" ON WALL TO BE SECURE. INSTALL STAT ON A 1" THICK INSULATED PAD.
29. INSTALL WALL LOUVER @ 12" FROM FLOOR TO BOTTOM OF LOUVER. INSTALL A SHEET METAL WIND BAFFLE AND INSECT SCREEN @ LOUVER. SEE COMBUSTION AIR LOUVER DETAIL.
30. EXTEND 4" DIA. FLUE FROM GAS UNIT UP THRU ROOF IN A 2" VENTILATED SLEEVE.
31. INSTALL GAS FIRED UNIT HEATER UP AS HIGH AS POSSIBLE, SUSPEND FROM STRUCTURE. SEE UNIT HEATER DETAIL.
32. INSTALL VERTICAL EXPANSION TANK ON A 4" HIGH, STEEL REIFORCED CONCRETE SLAB.
33. LOCATION OF BASE MOUNTED CIRCULATION PUMPS, INSTALLED ON 4" CONCRETE, ISOLATED PADS. SEE BASE MOUNTED PUMP DETAIL.
34. DROP 4" HWR AND HWS PIPING DOWN THRU FLOOR INTO CHASE. SEE PIPE THRU FLOOR DETAIL FOR INSTALLATION. ANCHOR PIPING. DROP TO ADJACENT WALL TO BE RIGID AND SECURE WITH ELCEN SPEED STRUT STEEL CHANNELS AND ISOLATED PIPE CLAMPS.
35. INSTALL A 4" HIGH CONCRETE CURB AROUND ALL PIPE AND DUCT FLOOR PENETRATIONS, SEALED TO BE WATERTIGHT.
36. 36" x 24" EXHAUST RISES UP THRU PENTHOUSE FLOOR AND EXTENDS OVER TO A FLEXIBLE CONNECTION AT THE UTILITY EXHAUST FAN. SUPPORT DUCT WITH A FLOOR MOUNTED, ISOLATED, ANGLE SUPPORT.
37. CONNECT TO NON-POTABLE WATERING PIPING, DOWNSTREAM OF BACK-FLOW PREVENTOR. SEE PLUMBING FLOOR PLAN FOR CONTINUATION OF PIPING.
38. 10" x 10" EXHAUST DUCT UP THRU FLOOR FROM CHASE. CONNECT TO FAN WITH FLEXIBLE CONNECTION. PROVIDE A 4" CONCRETE CURB AROUND DUCT PENETRATION. SEAL AROUND CURB AND DUCT TO BE WATERTIGHT.
39. REMOVABLE PANEL FOR ACCESS TO RETURN AIR FAN AND MOTOR.



NOTE: PROVIDE BURGLAR BARS AS IN NOTE (5) FOR ALL ROOF PENETRATIONS LARGER THAN 10" X 10".

MECHANICAL PENTHOUSE AND ROOF PLAN

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

GENERAL NOTES:

- CONTRACTOR TO COORDINATE INSTALLATION OF TERMINAL VAV BOXES AND HEATING COILS IN CEILING SPACES WITH OTHER TRADES TO ALLOW ADEQUATE SPACE FOR ACCESS FOR MAINTENANCE OF ALL COMPONENTS.
- ALL RECTANGULAR DUCT SIZES SHOWN ARE OUTSIDE DIMENSIONS. INSTALL 1" INTERIOR ACOUSTIC LINER IN RECTANGULAR ONLY WHERE NOTED. ROUND DUCTS SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED.
- ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER OR HIGH VELOCITY TAPE.
- PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.
- ALL DUCTWORK INSTALLED IN AREAS WITH CEILINGS TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE, ITIGHT TO THE BOTTOM OF THE STRUCTURE).
- ALL DUCT PENETRATIONS THRU THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT INSTALLATION, SIMILAR TO DUCT PENETRATION THRU ROOF ON EXHAUST FAN DETAIL.
- ALL DUCT PENETRATIONS THRU ROOF STRUCTURE SHALL BE PROVIDED WITH A WELDED STEEL ANGLE FRAME AROUND DUCT, BELOW ROOF DECKING. ANCHOR TO STRUCTURE AND DUCT AT APPROXIMATLEY 8" ON CENTERS.

- COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRUCTURAL DRAWINGS. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS.
- INSTALL "SPIN-IN" TYPE FITTINGS WITH BALANCING DAMPERS FOR ROUND BRANCH RUNOUTS TO EACH DIFFUSER A , BRANCH DUCTS TO DIFFUSERS SHALL BE OF EQUAL SIZE TO NECK DIAMETER.
- FLEXIBLE ROUND DUCT BRANCHES TO DIFFUSERS A SHALL BE PRE-INSULATED AND SHALL NOT EXCEED 4 FT. IN TOTAL LENGTH.
- THE SPACE ABOVE THE CEILING IS SERVING AS A RETURN AIR PLENUM. ALL AIR BEING SUPPLIED SHALL BE PROVIDED WITH RETURN AIR PATH BACK TO ITS ORIGIN. PROVIDE RETURN AIR OPENINGS IN WALLS EXTENDING THRU CEILING AND UP TO STRUCTURE. RETURN AIR OPENINGS SHALL EQUAL 1 SQ. FT. PER 500 CFM OF AIR BEING RETURNED, UNLESS OTHERWISE NOTED. PROVIDE WITH 150 DEGREE F. FIRE DAMPER IN FIRE RATED WALLS.
- COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT, SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.
- COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES AND REGISTERS TO BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILING PLAN AND LIGHTING PLAN.

- ALL 90-DEG. SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE THICK TURNING VANES.
- ALL FIRE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED.
- ALL THERMOSTATS SHALL BE MOUNTED UP 5'-6" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. PROVIDE APPROVED, VENTILATED LOCKING COVERS WITH GUARDS AT ALL THERMOSTATS, UNLESS OTHERWISE DIRECTED.
- PROVIDE ACCESS DOORS IN FIXED CEILING, CHASES AND DUCTWORK TO ALL FIRE DAMPERS, BALANCING DAMPERS OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.
- B.D. - MANUAL BALANCING DAMPER.
- A.D. - ACCESS DOOR.
- A.L. - ACOUSTICAL LINER.
- A.F.F. - ABOVE FINISH FLOOR.
- T.V. - TURNING VANES.
- F.D. - FIRE DAMPER.

- BEFORE CONTRACTOR ORDERS ANY GRILLES, REGISTERS OR DIFFUSERS, HE SHALL VERIFY THE CEILING CONSTRUCTION IN ALL AREAS OF THE PROJECT. IF GRILLES, REGISTERS OR DIFFUSERS SPECIFIED ARE NOT COMPATIBLE WITH THE TYPE OF CEILING CONSTRUCTION, THE CONTRACTOR SHALL ORDER PROPER TYPE OF GRILLE, REGISTER OR DIFFUSER TO BE COMPATIBLE WITH THE CEILING.
- ALL HOT WATER BRANCH LINES OFF MAIN SHALL BE PROVIDED WITH A SWING JOINT.
- PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF ALL MECHANICAL HEATING HOT WATER PIPING.
- REFER TO APPROPRIATE COIL PIPING DETAILS FOR ARRANGEMENT OF PIPING, VALVING, AND ACCESSORIES.
- PROVIDE ON INLET SIDE, A MINIMUM OF TWO x INLET SIZE OF STRAIGHT SHEETMETAL ROUND DUCT PRIOR TO FLEXIBLE CONNECTION OF EACH TERMINAL VAV BOX.
- ALL RETURN AIR SOUND TRAPS SHALL BE CONSTRUCTED OF 1" RIGID ACOUSTICAL SOUND BOARD WITH ALL TAPED SEAMS TO BE AIR TIGHT. SOUND BAFFLES SHALL BE PROVIDED IN THE OPENINGS OF EACH TRAP. BAFFLES SHALL BE OF 1" SOUND BOARD AT 12" CENTERS, ARRANGED IN AN EGGCRATE PATTERN. SEAL ENTIRE TRAP TO INSURE THAT ALL RETURN AIR FLOWS THRU TRAP. SUSPEND TRAPS FROM STRUCTURE WITH 20GA. SHEETMETAL STRAPS TO BE RIGID AND SECURE. DIMENSIONS OF TRAPS SHALL BE AS DESIGNATED ON THE DRAWINGS.

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Project Number: 8500
Date: APR. 14, 1986
Checked by: RJD
Drawing Title: MECHANICAL PENTHOUSE AND ROOF PLAN

Drawing M2.7
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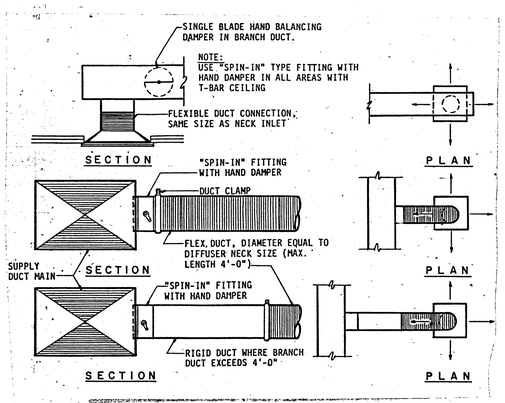

DIFFUSER CONNECTION DETAIL

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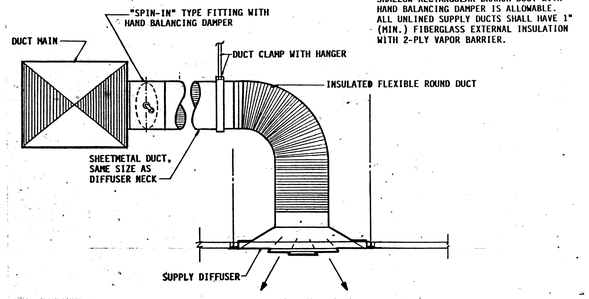

SUPPLY DIFFUSER DETAIL

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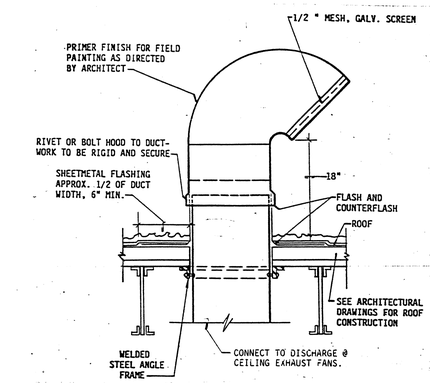

GOOSENECK DETAIL

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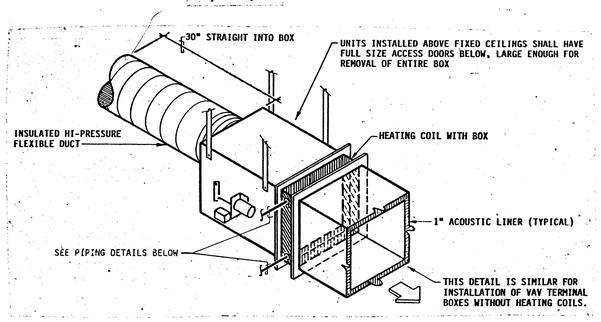
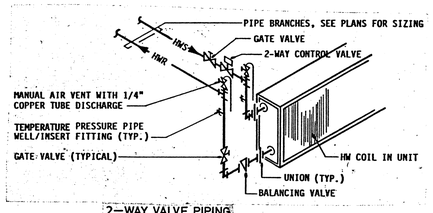
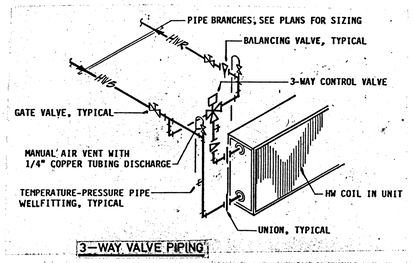




2—WAY VALVE PIPING



3—WAY VALVE PIPING

TERMINAL VAV BOX WITH HEATING COIL

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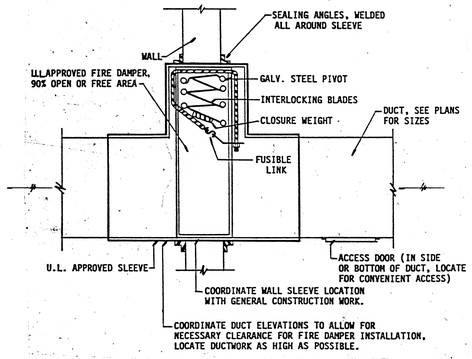

FIRE DAMPER DETAIL

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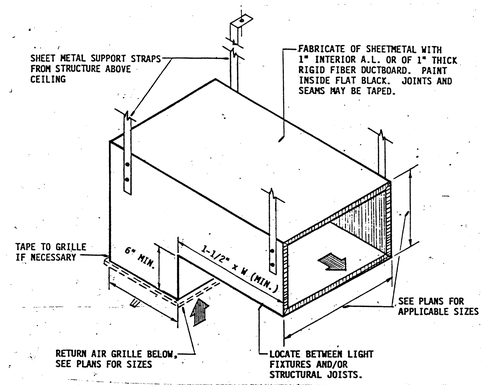

R.A. GRILLE SOUND TRAP DETAIL

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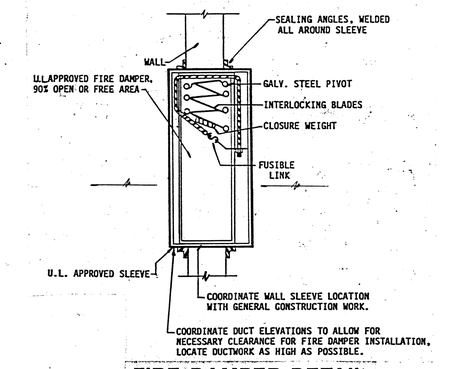

FIRE DAMPER DETAIL

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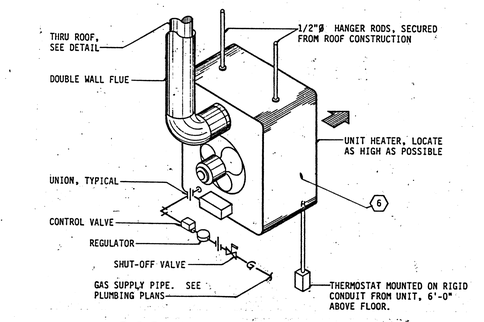

GAS UNIT HEATER DETAIL

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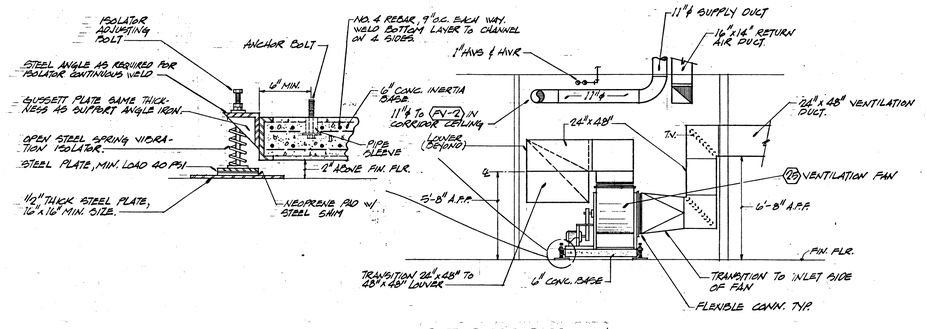
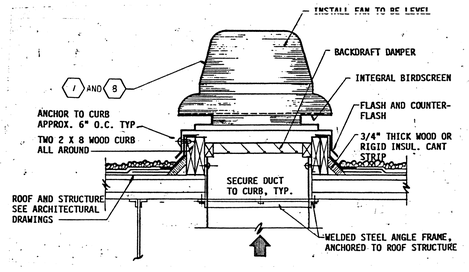


SECTION

SCALE: 1/4" = 1'-0" (1/M-2)



EXHAUST FAN DETAIL

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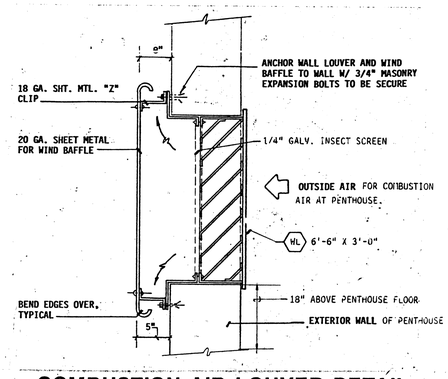

COMBUSTION AIR LOUVER DETAIL

NOT TO SCALE

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Project Number 8500
Date: APR 14, 1986
Checked by: RLB
Drawing Title: MECHANICAL SYSTEM DETAILS

Drawing M3.1
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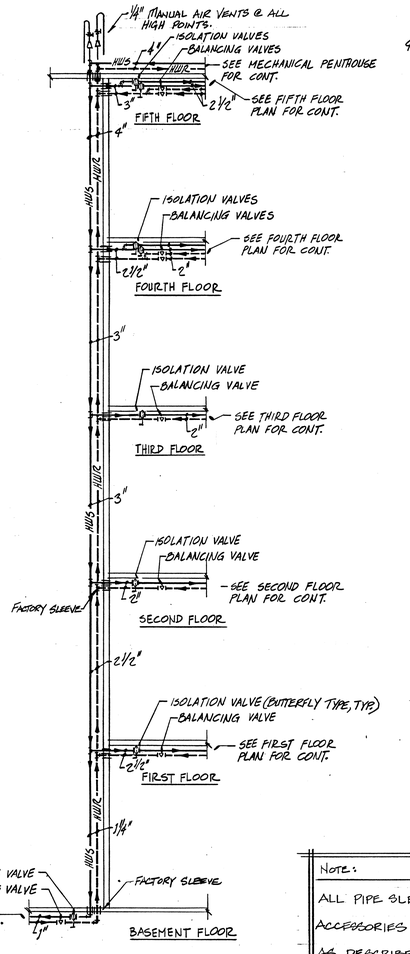
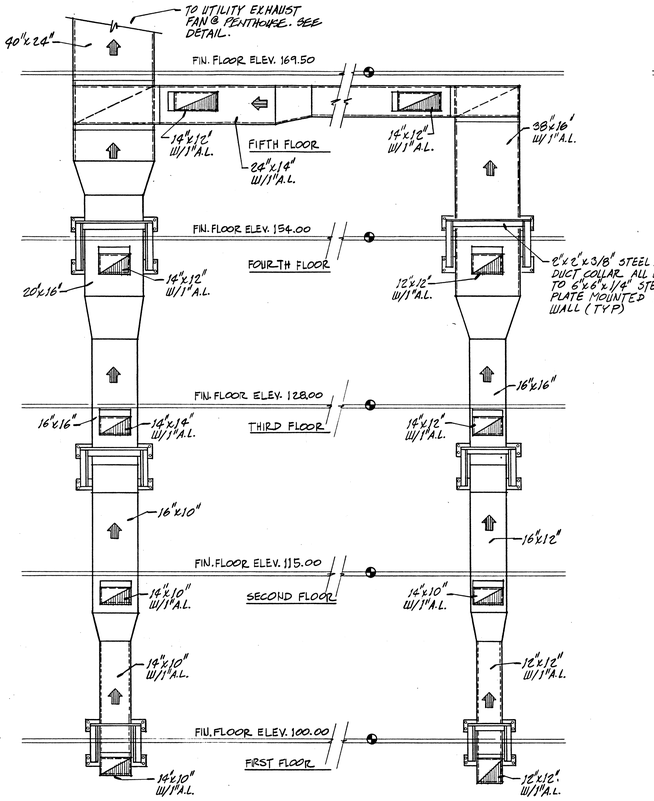


HEATING WATER PIPING RISERS

SCALE: NONE

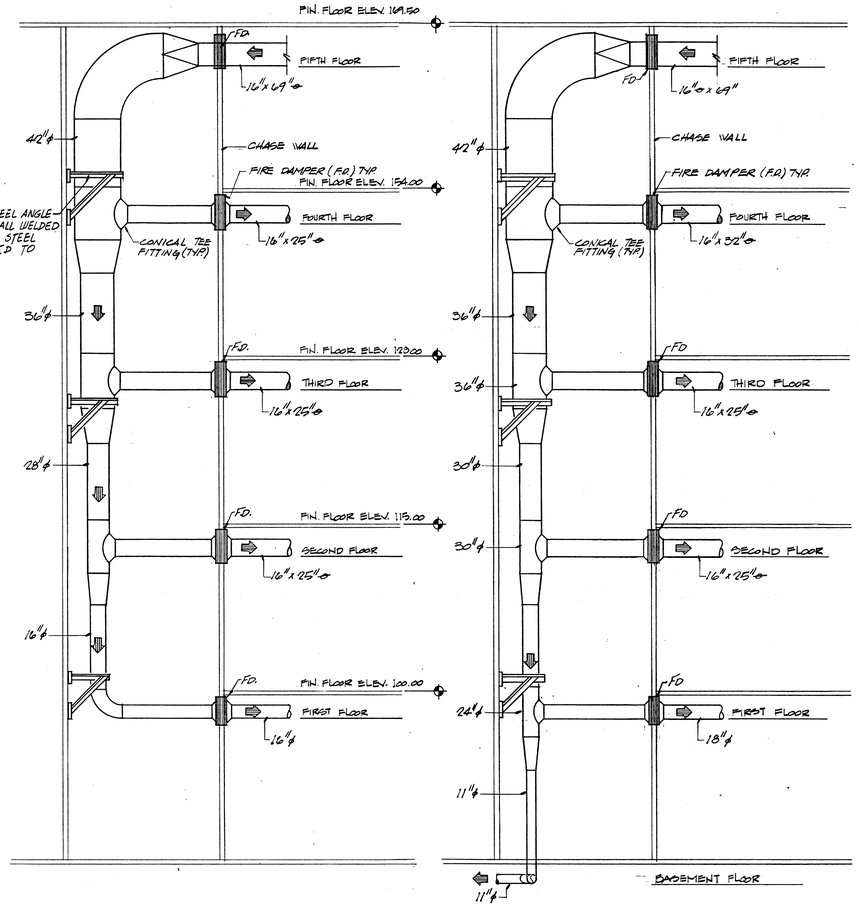


EXHAUST DUCT RISER

SCALE: NONE

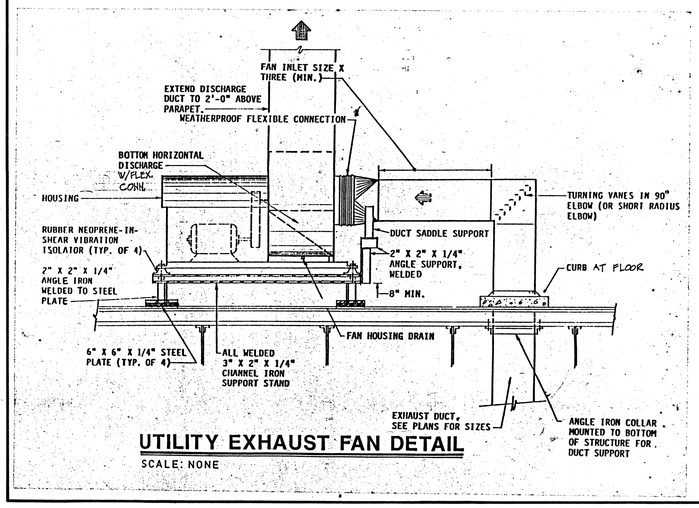
NOTE:

ALL PIPE SLEEVES AND PIPING SYSTEM ACCESSORIES SHALL BE FACTORY FABRICATED AS DESCRIBED ON SHEET M-3.3



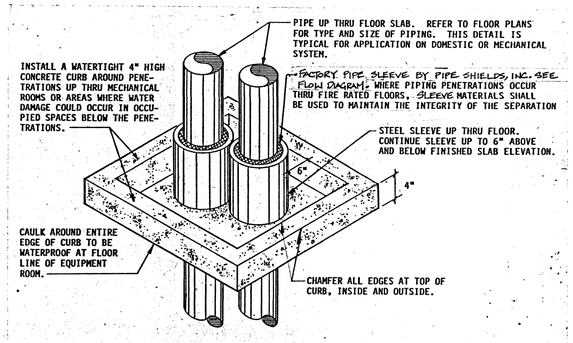
SUPPLY DUCT RISER (TYP. OF TWO SYSTEMS)

SCALE: NONE



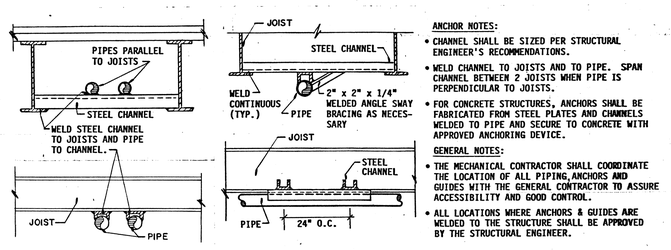
UTILITY EXHAUST FAN DETAIL

SCALE: NONE



PIPE PENETRATION THRU FLOOR DETAIL

SCALE: NONE



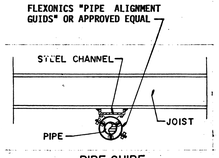
ANCHOR NOTES:

- CHANNEL SHALL BE SIZED PER STRUCTURAL ENGINEER'S RECOMMENDATIONS.
- WELD CHANNEL TO JOISTS AND TO PIPE. SPAN CHANNEL BETWEEN 2 JOISTS WHEN PIPE IS PERPENDICULAR TO JOISTS.
- FOR CONCRETE STRUCTURES, ANCHORS SHALL BE FABRICATED FROM STEEL PLATES AND CHANNELS WELDED TO PIPE AND SECURE TO CONCRETE WITH APPROVED ANCHORING DEVICE.

GENERAL NOTES:

- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL PIPING, ANCHORS AND GUIDES WITH THE GENERAL CONTRACTOR TO ASSURE ACCESSIBILITY AND GOOD CONTROL.
- ALL LOCATIONS WHERE ANCHORS & GUIDES ARE WELDED TO THE STRUCTURE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

ANCHOR FOR 1-1/2" PIPE AND SMALLER



PIPE GUIDE

ANCHOR FOR 2" PIPE AND LARGER

GUIDE NOTES:

- WELD STEEL CHANNEL TO JOISTS (FOR LARGE GUIDES, USE 2 CHANNELS). CHANNEL SPANS BETWEEN JOISTS FOR PARALLEL OR PERPENDICULAR INSTALLATIONS. SIZE STEEL CHANNEL FOR SPAN AND PIPE SIZE, PER STRUCTURAL ENGINEER'S RECOMMENDATIONS.
- FOR CONCRETE STRUCTURES, SECURE GUIDE BASE TO CONCRETE WITH APPROVED ANCHORING DEVICE.
- INSTALL PIPE GUIDES ON BOTH SIDES OF ALL PIPING EXPANSION LOOPS.
- WHERE GUIDES ARE TO BE BELOW JOISTS, GUIDE MAY BE BOLTED OR WELDED DIRECTLY TO JOIST FLANGE (IF APPROVED)

PIPE GUIDE AND ANCHOR DETAILS

SCALE NONE

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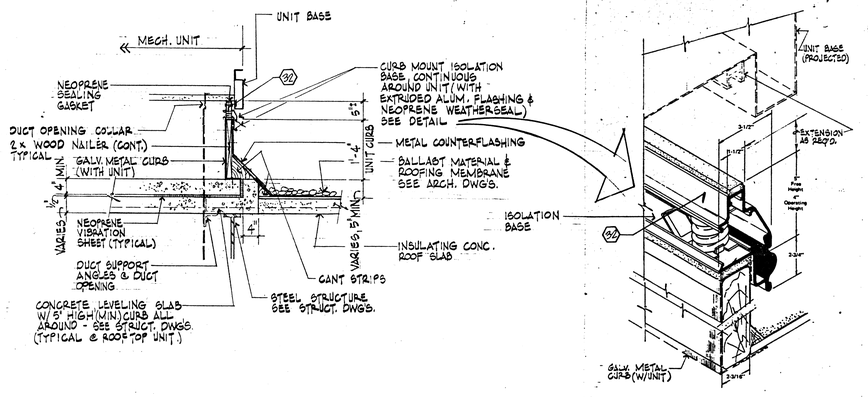
Project Number 8500
Date APR. 14, 1986
Checked by RJB
Drawing Title
MECHANICAL SYSTEM DETAILS AND DUCT RISERS

Drawing M3.2
Sheet 83 of 111

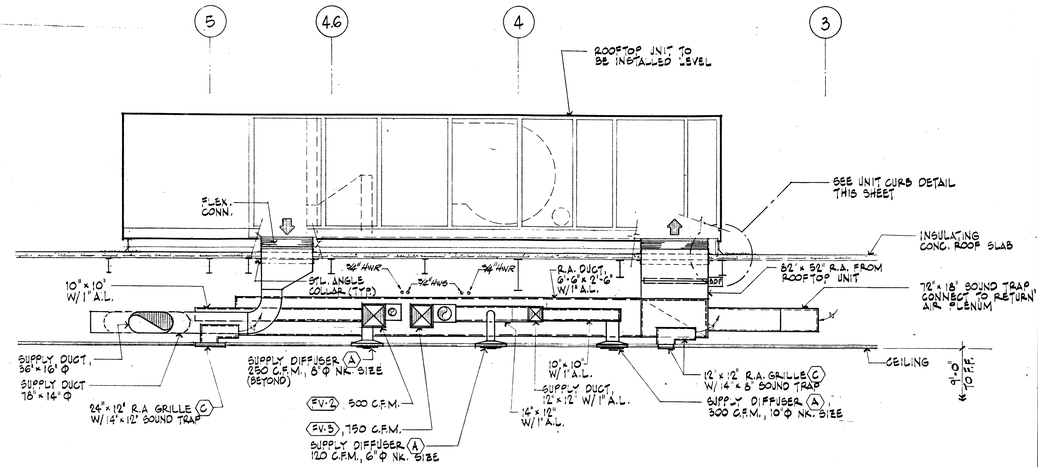


UNIT CURB DETAIL

NOT TO SCALE

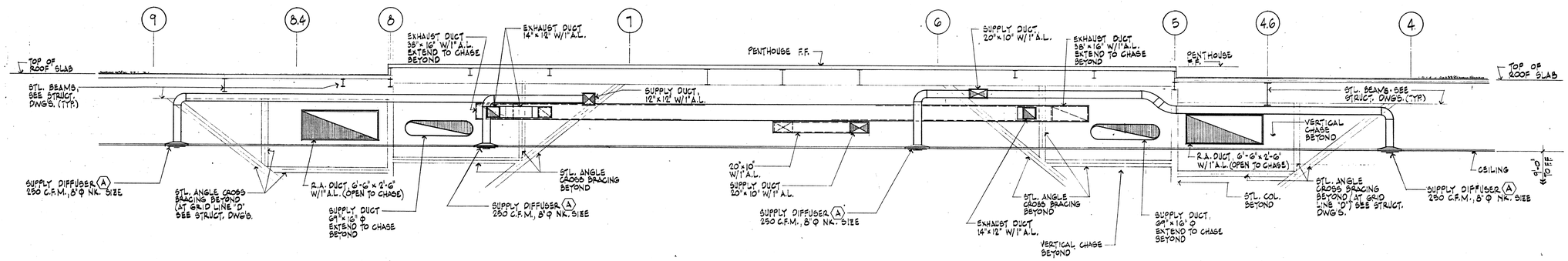
ISOLATION BASE DETAIL

NOT TO SCALE



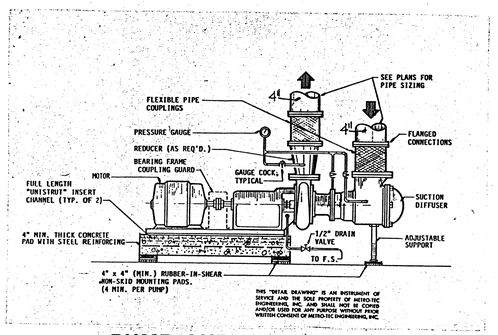
ROOF MOUNTED UNIT DETAIL (1 / M-3.3)

NOT TO SCALE



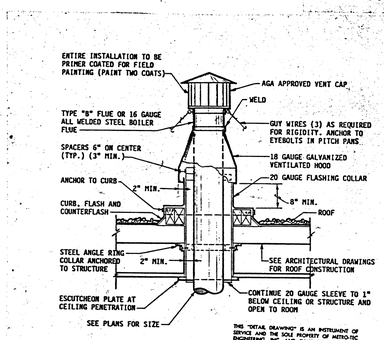
SECTION THRU 5 TH FLOOR - HVAC (2 / M-3.3)

NOT TO SCALE



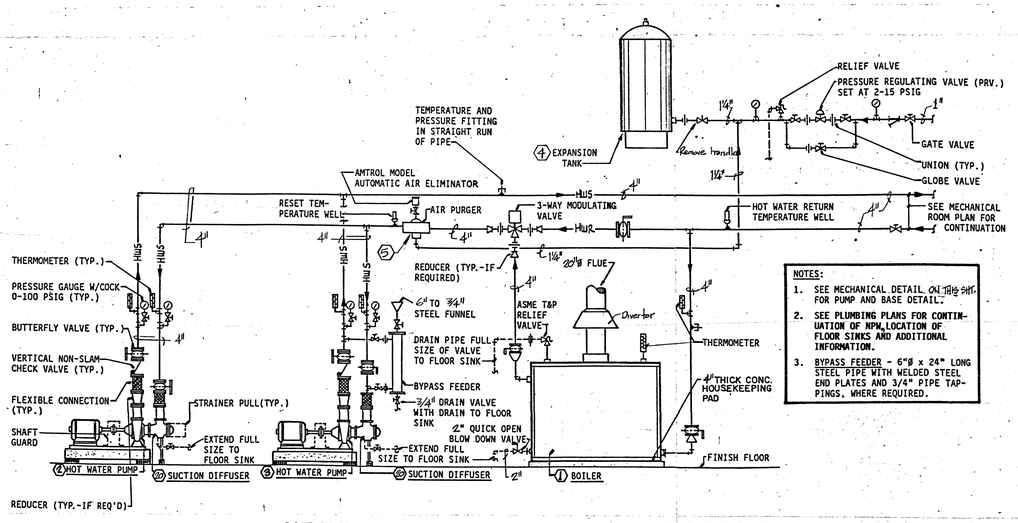
PUMP AND BASE DETAIL

NOT TO SCALE



BOILER STACK THRU ROOF DETAIL

NOT TO SCALE



NOTES:

1. SEE MECHANICAL DETAIL ON THIS SHT. FOR PUMP AND BASE DETAIL.
2. SEE PLUMBING PLANS FOR CONTINUATION OF NPW, LOCATION OF FLOOR SINKS AND ADDITIONAL INFORMATION.
3. BYPASS FEEDER - 6"ϕ x 24" LONG STEEL PIPE WITH WELDED STEEL END PLATES AND 3/4" PIPE TAPPINGS, WHERE REQUIRED.

HEATING WATER SYSTEM FLOW DIAGRAM

NOT TO SCALE

HEATING PIPING SYSTEM FLOW DIAGRAM NOTES: (CITY/COUNTY LEF)

HPS-1. MANUAL AIR VENTS:
1/4" TUBING WITH MANUALLY OPERATED BRASS PET COCK, AT ALL HIGH POINTS.

HPS-2. PIPE LABELING:
LABEL ALL HWS, HWR, CW AND HW PIPING THROUGHOUT INCLUDING THE APPLICATION OF DIRECTIONAL FLOW ARROWS. REFER TO SPECIFICATIONS.

HPS-3. OWNER SUPPLIES:
THE CONTRACTOR SHALL FURNISH 2 PRESSURE GAUGES AND 2 THERMOMETERS TO THE OWNER FOR USE WITH THE HOT WATER COILS.

HPS-4. FLEXIBLE CONNECTORS:
FLEXIBLE PIPE CONNECTORS SHALL BE GENERAL RUBBER STYLE 1010 WITH CONTROL UNITS, 150 PSIG WORKING PRESSURE, FURNISH WITH FLANGES AND BOLTS. SEE PLANS FOR LINE SIZES.

HPS-5. GAUGES:
PRESSURE GAUGES SHALL BE TRERICE 600 SERIES, 4" DIAL WITH SNUBBER AND HOKE NO. 300 GAUGE COCK.

HPS-6. FLUE CONSTRUCTION:
BOILER FLUE AND BREECHING CONSTRUCTION SHALL BE ALL WELDED 16 GAUGE ASSEMBLY WITH REMOVABLE, GASKETED CLEAN OUT DOORS AT EACH END. DOORS SHALL BE MINIMUM OF 12" DIAMETER. DOORS SHALL BE ATTEACHED WITH THREADED STUDS AND NUTS. WELD STUDS INTO THE REINFORCING RING AT END OF EACH FLUE. GASKET MATERIAL SHALL BE ASBESTOS TYPE. REFER TO FLUE THRU ROOF DETAIL FOR FLASHING AND VENTILATION SLEEVE CONDITIONS. SUPPORT FLUE WITH STEEL ANGLE ANCHORED TO ADJACENT MASONRY WALL TO BE SECURE. SEE HPS-10 FOR FLUE AND BREECHING INSULATION.

HPS-7. GAUGE COCK:
GAUGE COCKS SHALL BE HOKE NO. 300.

HPS-8. INSULATION:
1-1/2" FIBERGLASS WITH STAINLESS STEEL ALUMINUM JACKETING UP TO ALL POINTS 8'-0" ABOVE MECHANICAL ROOM FINISHED FLOOR. REFER TO THE SPECIFICATIONS.

HPS-9. THERMOMETER:
THERMOMETERS SHALL BE WEISS "VARI-ANGLE" NO. 9V53-1/2, WITH SEPARABLE SOCKET AND WELL. RANGES SHALL BE 0-DEG. F TO 100-DEG. F FOR CHILLED WATER AND 40-DEG. F TO 240-DEG. F FOR HEATING WATER. 9" HIGH, ADJUSTABLE.

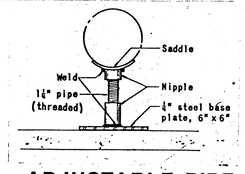
HPS-10. INSULATION (BOILER FLUE):
ALL SURFACES OF BOILER FLUES SHALL BE INSULATED WITH 2" OF WATERPROOFED, CALCIUM SILICATE WITH EXTERIOR CANVAS JACKETING, SUITABLE FOR INSTALLATION ON 1200-DEG. F SURFACES. SEE SPECIFICATIONS.

HPS-11. PIPING SLEEVES AND HANGER SHIELDS:
ALL PIPING SHALL BE PROTECTED AT POINTS OF SUPPORT AND PENETRATION THRU WALLS AND FLOORS BY A 360-DEG. INSERT OF HIGH DENSITY, 100 PSI, WATERPROOFED CALCIUM SILICATE, INCASED IN A 360-DEG., 20 GAUGE SHEET METAL SHIELD AS MANUFACTURED BY PIPE SHIELDS INCORPORATED. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

HPS-12. BUTTERFLY VALVES:
MANUAL BUTTERFLY VALVES SHALL BE CENTER LINE SERIES "MODEL WL" LUG BODY-CONSTRUCTION, CAST IRON BODY, BRONZE DISC WITH POSITIVE SHUT-OFF FOR HVAC PIPING SYSTEM DUTY. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

HPS-13. BLOW-DOWN LINES:
ROUTE ALL BLOW DOWNS FROM RELIEF VALVES, STRAINERS, BOILERS AND SUCTION DIFFUSERS TO THE NEAREST FLOOR SINK OR FLOOR DRAIN.

HPS-14. BACKFLOW PREVENTOR:
(BFP-1) - ALL MAKE-UP WATER SHALL ORIGINATE AT BACK-FLOW PREVENTORS.



ADJUSTABLE PIPE SUPPORT DETAIL

NOT TO SCALE

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Project Number 8506
Date APR. 14, 1986
Checked by R.B.
Drawing Title MECHANICAL SYSTEM DETAILS AND SECTIONS

Drawing M3.3
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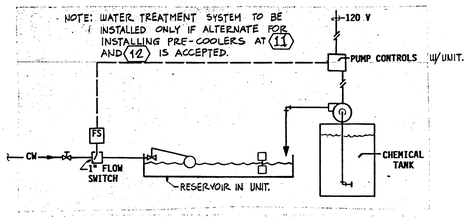
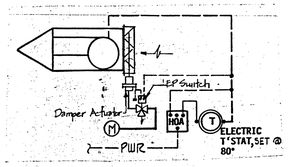
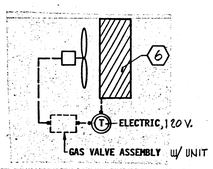


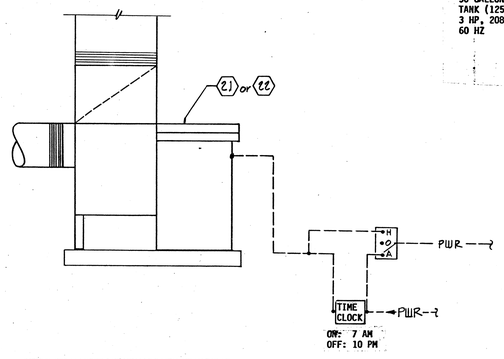
INDIRECT EVAPORATIVE COOLER WATER TREATMENT



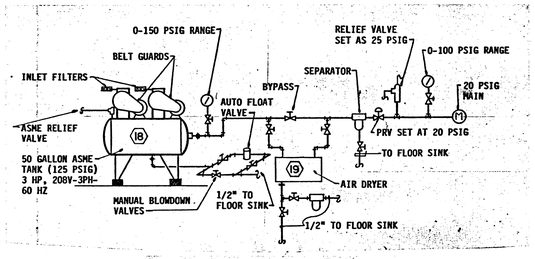
MECHANICAL PENTHOUSE EXHAUST FAN



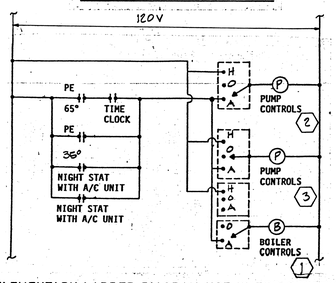
ELEV. ROOM AND MECH. ROOM UNIT HEATER



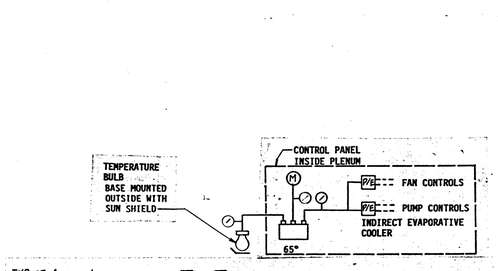
UTILITY EXHAUST FAN (21) & (22)



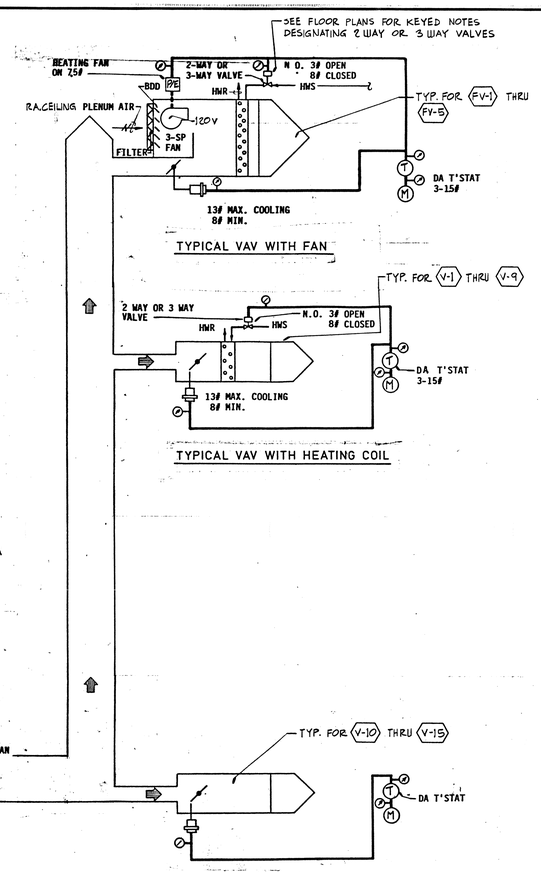
CONTROLS AIR COMPRESSOR

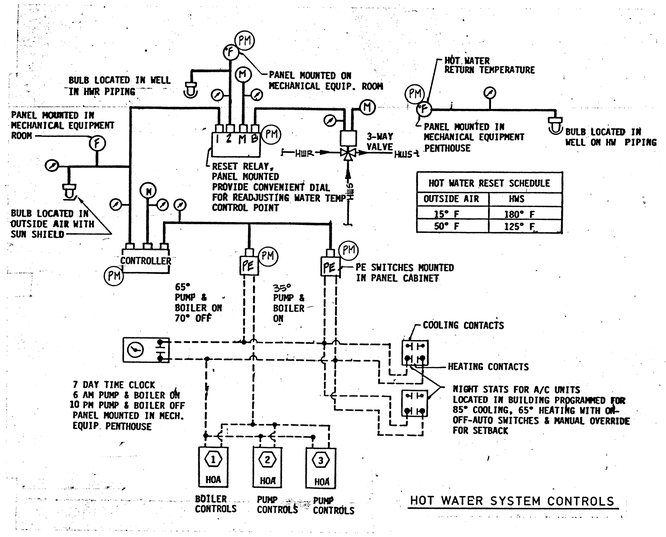


ELEMENTARY LADDER DIAGRAM HOT WATER SYSTEM

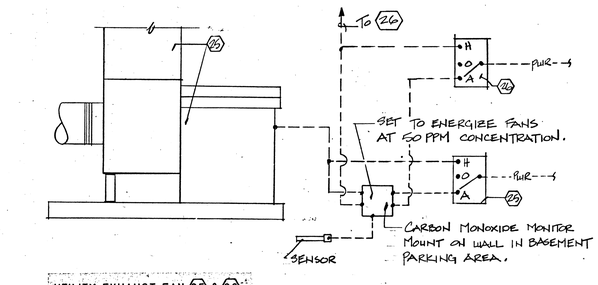


ROOFTOP A/C UNITS





HOT WATER SYSTEM CONTROLS



UTILITY EXHAUST FAN (25) & (26)

CONTROL DIAGRAMS

SEQUENCE OF OPERATIONS

COOLING:

ROOFTOP UNITS SUPPLY AIR TO TERMINAL VAV BOXES, WHICH ARE CONTROLLED BY ZONE THERMOSTATS. THE SUPPLY FANS ARE EQUIPPED WITH INLET VANES WHICH THROTTLE AIR FLOW IN RESPONSE TO DUCT STATIC PRESSURE. SUPPLY AIR TEMPERATURE IS RESET DEPENDING ON AMBIENT AIR TEMPERATURE. ECONOMIZER CONTROLS ALLOW USE OF OUTSIDE AIR FOR FREE COOLING IN RESPONSE TO AN ENTHALPY CONTROLLER IN THE RETURN AIR STREAM.

NIGHT STATS SHUT OFF THE UNITS DURING UNOCCUPIED PERIODS. AND AUTOMATICALLY START UP THE SYSTEMS IF BUILDING TEMPERATURE EXCEEDS 85°F.

PUMPS AND FANS ON INDIRECT EVAPORATIVE PRECOOLERS ARE ACTIVATED AT OUTSIDE TEMPERATURES OF 65°F AND HIGHER.

HEATING:

1. TERMINAL HEATING IS SUPPLIED BY VAV BOXES WITH HOT WATER COILS. PRIMARY AIR IS SUPPLIED BY THE ROOFTOP UNITS. VAV BOXES WITH FANS SUPPLY A MIXTURE OF PLENUM AIR AND PRIMARY AIR TO THE SPACE. THE HEATING SEQUENCE IS:
   A. PRIMARY AIR THROTTLED TO MINIMUM
   B. HOT WATER COIL ACTIVATED
   C. FAN ON
2. THE ROOFTOP UNITS ARE CONTROLLED BY NIGHT STATS WHICH SHUT THE UNITS OFF DURING UNOCCUPIED PERIODS. THEY START THE SYSTEMS UP AUTOMATICALLY IF BUILDING TEMPERATURE FALLS BELOW 60°F.
3. THE BOILER AND SELECTED HEATING PUMP ARE STARTED AT AMBIENT TEMPERATURES OF 65°F OR LOWER. THEY SHUT OFF AT 70°F.
4. THE BOILER AND PUMP ARE CONTROLLED BY A TIME CLOCK WHICH SHUTS THEM DOWN DURING UNOCCUPIED PERIODS. THE TIME CLOCK IS OVERRIDDEN BY:
   A. AMBIENT TEMPERATURES OF 40°F OR LOWER OR
   B. A SIGNAL FROM A BUILDING NIGHT STAT CALLING FOR SPACE HEATING.

GENERAL CONTROL SYSTEM NOTES

CSN-1 (M) = 20 PSIG MAIN AIR FROM CONTROLS COMPRESSOR.

CSN-2 = PRESSURE GAUGES. INSTALLED AT ALL DAMPER ACTUATORS AND CONTROLLERS. PRESSURE GAUGES SHALL BE TRERICE, 1-1/2" DIAL, 0-30 PSIG, STEM MOUNTED.

CSN-3 (°F) = TEMPERATURE READOUT GAUGE.

CSN-4 (PM) = PANEL MOUNTED CONTROL ITEM.

CSN-5 N.C. = NORMALLY CLOSED DURING SYSTEM OPERATION.

CSN-6 N.O. = NORMALLY OPEN DURING SYSTEM OPERATION.

CSN-7 PROVIDE SUNSHIELD FOR ALL OUTSIDE SENSORS.

CSN-8 ALL CONTROLS SHALL BE FIELD ADJUSTABLE.

CSN-9 FURNISH SMOKE DETECTION DEVICES IN MAIN AIR HANDLING SYSTEMS. SEE ELECTRICAL DIAGRAMS ALSO.

CSN-10 PROVIDE 1 CENTRAL TIMECLOCK AND A SEPARATE NITESTAT FOR EACH AIR HANDLING SYSTEM, TOTAL OF (2).

CSN-11 REFER TO ELECTRICAL LADDER DIAGRAMS FOR INTERLOCKS, TIME CLOCKS, RELAYS, ETC.

CSN-12 ALL CONTROL EQUIPMENT (PE'S, EP'S, PNEUMATIC RELAYS, CONTROLLERS, ETC.) SHALL BE PANEL MOUNTED AND LABELED.

CSN-13 FREEZESTATS SHALL BE FURNISHED WITH MINIMUM 20 FT. CAPILLARY, AND MANUAL RESETS.

CSN-14 THE CONTROLS CONTRACTOR SHALL PREPARE COMPLETE SUBMITTAL DRAWINGS SHOWING LAY-OUT OF ALL CONTROL SYSTEMS, INCLUDING MECHANICAL EQUIPMENT PENTHOUSE CONTROL PANEL.

CSN-15 ALL OSA AND RELIEF AIR DAMPERS SHALL BE TIGHT CLOSING, 1% MINIMUM LEAKAGE AT 4" W.G. WITH NEOPRENE EDGES, SIMILAR TO HONEYWELL "MODUFLOW" LOW LEAKAGE OR RUSKIN CD-50 DAMPERS.

CSN-16 REFER TO COMPRESSED AIR SYSTEM SUPPLY DETAIL ON THIS SHEET FOR INSTALLATION.

CSN-17 MAXIMUM COOLING AIR FLOW FROM VAV TERMINAL BOXES IS SHOWN ON FLOOR PLANS. SET MINIMUM AIR FLOW AT 30% OF MAXIMUM FOR ALL BOXES, UNLESS OTHERWISE DIRECTED.

CSN-18 TERMINAL BOXES WITHOUT HEATING SHALL VARY DOWN TO 10% OF MAXIMUM AIR FLOW.

CSN-19 THERMOSTATS INSTALLED ON OUTSIDE WALLS OR OUTSIDE COLUMNS SHALL HAVE A 1" THICK INSULATION PAD (APPROVED) MOUNTED SECURELY BEHIND THERMOSTAT.

CSN-20 ALL DAMPER ACTUATORS SHALL BE PROVIDED WITH MOUNTING BRACKETS FOR A RIGID AND SECURE INSTALLATION.

CSN-21 THE CONTROL SUBCONTRACTOR AND ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ALL WORK TO ACHIEVE A WORKING CONTROL SYSTEM, AS DESIGNED, PRIOR TO PREPARING THE ACTUAL SUBMITTALS. THE SUBMITTALS SHALL DESIGNATE FEATURES REQUIRING COORDINATION BETWEEN TRADES AND REFLECT THESE ACCORDINGLY ON THE DRAWINGS.

CSN-22 THE CONTROL PANEL AND LABELING OF ITEMS IN THE CONTROL PANEL SHALL BE BY THE CONTROLS CONTRACTOR. LABEL ALL CONTROL DEVICES WITH PERMANENT, LAMINATED TAGS DESIGNATING FUNCTION, NAME AND SETPOINTS. INSTALL TAGS AT ALL THERMOSTATS, NITESTATS, CONTROLLERS, PE SWITCHES, RELAYS, CONTROL PANELS, TEMPERATURE GAUGES, SENSORS, VALVES, DAMPER ACTUATORS AND SWITCHES.

CSN-23 BOTH AIR HANDLING UNITS SHALL RECEIVE TEMPERATURE INDICATORS AT THE SEPARATE CONTROLS CABINET FOR EACH UNIT. PROVIDE MIXED AIR, SUPPLY AIR AND OUTSIDE AIR TEMPERATURE INDICATION GAUGES, WEATHERPROOF, FACE MOUNTED ON EACH PANEL.

CSN-24 THE PNEUMATIC CONTROLS SYSTEM SHALL BE FURNISHED WITH ALL CONTROL PIPING AND EQUIPMENT AS REQUIRED TO OPERATE AS INDICATED ON THE CONTROL DIAGRAMS. THE CONTROL INSTALLATION SHALL BE A JOINT EFFORT; ACHIEVED WITH SUPERVISION FROM THE HVAC UNIT MANUFACTURER'S FIELD ENGINEER, A CERTIFIED TEMPERATURE CONTROLS CONTRACTOR AND THE ELECTRICAL SUBCONTRACTOR. THE MANUFACTURER'S FIELD ENGINEER SHALL SUPERVISE THE CONNECTIONS, START-UP AND TESTING OF THE EQUIPMENT. ANY CONTROL WIRING REQUIRED BUT NOT CALLED FOR UNDER THE ELECTRICAL SECTION OF THE SPECIFICATIONS SHALL BE PAID FOR BY THE CONTROLS CONTRACTOR; THE CONTROLS CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ASSURE ALL THE NECESSARY WIRING IS PROPERLY INSTALLED, AND ALL DEVICES REQUIRING ELECTRIC/PNEUMATIC INTERFACING ARE KNOWN OF AND UNDERSTOOD.

CSN-25 THE CONTROL CONTRACTOR SHALL PROVIDE CONTROL DIAGRAMS OF THE "AS-BUILT" SYSTEM WHEN SYSTEM IS COMPLETELY INSTALLED, IN A LAMINATED ENCLOSURE AT EACH OF THE CONTROL PANELS FOR EACH UNIT AND AN OVERALL SYSTEM CONTROL DIAGRAM AT THE CENTRAL PANEL IN THE EQUIPMENT PENTHOUSE.

CSN-26 ALL CONTROLS SHOWN ON CONTROL DIAGRAMS (EXCEPT ROOM THERMOSTATS) SHALL BE MOUNTED IN A WEATHERPROOF CONTROL PANEL WITHIN EACH AIR HANDLING UNIT, OR IN WEATHERPROOF CONTROL PANEL OUTSIDE OF THE UNIT (CONTROL PANEL HOUSING TO BE WATERTIGHT AND PROPERLY SHADED).

CSN-27 ALL WIRING AND CONTROL INTERLOCKS SHALL BE THE RESPONSIBILITY OF THE CONTROL CONTRACTOR.

CSN-28 ALL ELECTRIC WALL-MOUNTED THERMOSTATS SHALL BE PENN T-26; HEAVY DUTY OAE.

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Project Number: 8506
Date: APR 14, 1986
Checked by: RJB
Drawing Title: MECHANICAL CONTROL DIAGRAMS AND DETAILS

Drawing M6.1
Sheet 85 of 111

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
36	**HEAT TRACING CABLE:** CHROMOLOX "RAPID TRACE" SELF-REGULATING ELECTRICAL CABLE TO BE INSTALLED WHERE SHOWN ON PLANS ON WATER LINES LOCATED IN UNHEATED SPACES. FURNISH ALL CABLE AND ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM, INCLUDING POWER TERMINATION KITS, PIPE STRAPS, END SEAL KITS, END SEAL CAPS, JUNCTION BOXES AND CONNECTORS, SPLICE AND TEE KITS, CAUTION LABELS FOR EVERY TEN FEET OF TRACING, AND LINE VOLTAGE THERMOSTATS TO BE INSTALLED WHERE SHOWN ON PLANS. THERMOSTATS SHALL MEASURE AMBIENT AIR TEMPERATURE AND SHALL BE SET AT 40-DEG. F. 120V, 1PH.

PIPE SIZE	WATTS/FT	MODEL NO.	MAX CIRCUIT LENGTH
UNDER 2"	4	RTSR-4L18-1	250 FT
2" & OVER	8	RTSR-8L16-1	210 FT

GRILLE, REGISTER & DIFFUSER SCHEDULE

NOTE: ALL SIZES AND CAPACITIES AS SHOWN ON DRAWING.

SYMBOL	DESCRIPTION
A	**SUPPLY DIFFUSER:** ANEMOSTAT MODEL EPLA. ROUND NECK SQUARE FACE. FOR MOUNTING FLUSH IN NORMAL 24" WIDE CEILING PANEL WITH TEE BAR CEILING SYSTEM. (SEE ARCHITECTURAL DRAWINGS FOR CEILING DETAILS AND SPECIFICATIONS). PROVIDE WITH CONCEALED TABS FOR ADJUSTABLE AIR PATTERN. STEEL CONSTRUCTION WITH SEMI-GLOSS WHITE FINISH. PROVIDE MANUAL BALANCING DAMPER IN BRANCH DUCT CONNECTION OF "SPIN-IN" FITTING.
B	**SUPPLY DIFFUSER:** ANEMOSTAT MODEL EA-1, ROUND NECK, SQUARE FACE, FOR MOUNTING FLUSH IN FIXED TYPE CEILING. PROVIDE WITH CONCEALED TABS FOR ADJUSTABLE AIR PATTERN AND WITH VOLUME CONTROL DAMPER. STEEL CONSTRUCTION WITH SEMI-GLOSS WHITE FINISH.
C	**RETURN (OR TRANSFER) AIR GRILLE:** KRUEGER MODEL EGC-5. FABRICATED ALUMINUM, 1/2" x 1/2" x 1/2" CORE SPACING. EGGCRATE TYPE PATTERN. FOR INSTALLATION IN TEE BAR TYPE CEILING SYSTEM.
D	**RETURN (OR TRANSFER) AIR GRILLE:** KRUEGER MODEL EGC-5. FABRICATED ALUMINUM, 1/2" x 1/2" x 1/2" CORE SPACING. EGGCRATE TYPE PATTERN. WITH 1-1/4" FLAT FRAME MARGIN. FOR INSTALLATION IN FIXED TYPE CEILING.
E	**EXHAUST REGISTER:** KRUEGER MODEL EGC-5. FABRICATED ALUMINUM. 1/2" x 1/2" x 1/2" CORE SPACING. EGGCRATE TYPE PATTERN. WITH OPPOSED BLADE DAMPER. FOR INSTALLATION IN TEE BAR TYPE CEILING SYSTEM.
F	**EXHAUST REGISTER:** KRUEGER MODEL EGC-5. FABRICATED ALUMINUM. 1/2"x 1/2" x 1/2" CORE SPACING. EGGCRATE TYPE PATTERN. WITH OPPOSED BLADE DAMPER. FLAT FRAME MARGIN AND INNER GASKET LINER. FOR INSTALLATION IN FIXED TYPE CEILING.
G	**OUTSIDE WALL LOUVER:** KRUEGER MODEL XY-51. WITH FLANGED FRAME. GALVANIZED STEEL CONSTRUCTION. "J" TYPE 45-DEG. LOUVER BLADES SET 4-1/2" APART. BIRD SCREEN ON INSIDE. PRIME COAT FINISH FOR FIELD PAINTING AS DIRECTED BY ARCHITECT.
H	**DOOR LOUVER:** KRUEGER. SERIES 600 A. NON-VISION TYPE WITH INVERTOR "V" SHAPED VANES SET AT 1/2" CENTERS. FLANGED FLAT FRAME BOTH SIDES OF DOOR. STEEL OR ALUMINUM CONSTRUCTION. PRIMER FINISH. PAINT AS DIRECTED BY ARCHITECT.
J	**SIDEWALL SUPPLY REGISTER:** KRUEGER. MODEL 5885 H. WITH ADJUSTABLE HORIZONTAL FRONT VANES. VERTICAL REAR VANES. DOUBLE DEFLECTION. VANES ON 1/2" CENTERS. OPPOSED BLADE DAMPER. FLAT FRAME WITH INNER GASKET LINER. STEEL CONSTRUCTION. ALUMINUM BLADES. PRIMER FINISH. PAINT AS DIRECTED BY ARCHITECT.
K	**SIDEWALL RETURN (OR TRANSFER) AIR GRILLE:** KRUEGER. MODEL 5585 H. WITH ALUMINUM HORIZONTAL VANES SET AT 35° AND SPACED AT 1/2" CENTERS. FLAT FRAME WITH INNER GASKET LINER. CONSTRUCTION. PRIMER FINISH. PAINT AS DIRECTED BY ARCHITECT.
L	**SUPPLY LINEAR REGISTER:** KRUEGER, SERIES 1500. FLANGED FRAME WITH CONCEALED FASTENERS FOR MOUNTING IN FIXED TYPE CEILING. SIDEWALL OR SILL. OPPOSED BLADE DAMPER. MEDIAL ALIGNMENT BAR (WHERE NECESSARY). EXTRUDED ALUMINUM CONSTRUCTION. PRIMER FINISH. PAINT AS DIRECTED BY ARCHITECT.

NM STATE ENERGY CALCULATIONS

UNIFORM BUILDING CODE CHAPTER 53: ENERGY CONSERVATION ANALYSIS

GENERAL INFORMATION:

LOCATION: ALBUQUERQUE — ELEVATION: 5200
LATITUDE: 35 — DEGREE DAYS (HEATING): 4348
DESIGN TEMP: WINTER: 16 — INSIDE WINTER: 72
SUMMER: 94 — INSIDE SUMMER: 78

BUILDING TYPE: FIVE STORY SHERIFF/POLICE OFFICE BUILDING
GROSS SQUARE FT: 56,882

HEATING CRITERIA:

	UBC CODE REQUIREMENT	ACTUAL BLDG. DESIGN
OVERALL WALL TRANSMISSION VALUE (Uo)	0.373 MAX	0.194
OVERALL ROOF TRANSMISSION VALUE (Uo)	0.089 MAX	0.037
OVERALL FLOOR TRANSMISSION VALUE (Uo)	0.088 MAX	0.067
REQ'D. "R" VALUE OF PERIMETER INSULATION	NA	

COOLING CRITERIA:

OVERALL WALL THERMAL VALUE (OTTV), BTU/HR - SF.	32.1	21.54

AIR INFILTRATION RATES:

EXTERIOR DOORS (CFM/LF CRACK)	11.0	(ALL WINDOWS AND DOORS WILL
EXTERIOR WINDOWS (CFM/LF CRACK)	0.5	MEET CRITER) SEE ARCH. SPECIFICATIONS.

BUILDING MECHANICAL SYSTEMS:

COOLING: PACKAGED ROOFTOP REFRIGERATED A/C, W/ ECONOMIZER CYCLES, TERMINAL VAV BOXES
HEATING: GAS-FIRED BOILER, HYDRONIC REHEAT COILS WITH VAV'S, AND FAN-POWERED VAV'S TO RECOVER HEAT FROM CEILING SPACE.

DUCTWORK INSULATION:

INTERIOR BUILDING DUCTS: 3 MINIMUM — EXTERIOR BUILDING DU: NA

PIPING INSULATION:

COMPLES WITH TABLE 5.8 ON PAGE 40 OF UBC ENERGY CONSERVATION CODE

DOMESTIC WATER HEATERS:

DOMESTIC WATER HEATING: NATURAL GAS-FIRED STORAGE TYPE WATER HEATER WITH MINIMUM RECOVERY EFFICIENCY, STANDBY LOSSES AND INSULATION

DOMESTIC HW SUPPLY TEMPERATURE: 110° F

PLUMBING SYSTEMS:

CONSERVATION OF HOT WATER IS PROVIDED IN ACCORDANCE WITH SECTION 404.5 OF THE UBC ENERGY CONSERVATION CODE

SYMBOL	DESCRIPTION
21 + 22 + 22A	**UTILITY SET FAN(S):** PENN (OR APPROVED EQUAL), STEEL CONSTRUCTION, WEATHERPROOF UNIT, BACKWARD INCLINED WHEEL AMCA CERTIFIED, RUBBER-IN-SHEAR ISOLATORS, SCROLL DRAIN. ACCESS IN HOUSING FOR MAINTENENCE, BALL BEARINGS (WITH PROVISION FOR PERIODIC LUBRICATION), ADJUSTABLE, V-BELT DRIVE, ANTI-BACKDRAFT DAMPER AND DISCHARGE GALV. MESH SCREEN, TOP HORIZONTAL DISCHARGE ARRANGEMENT.

SYMBOL	MODEL	CFM @ " SP	RPM	HP	VOLTAGE	SERVICE
21	QX30	6300 @ 1.5"	729	3	480/3PH	RR EXHAUST
22	QX20	500 @ 1.5"	1041	1	480/3PH	PROJ. ROOM
22A	QX20	5000 @ 1.5"	1041	1	480/3PH	WEAPONS STOR.

23	**INDIRECT EVAPORATIVE-COOLERS:** FOUR EACH REQUIRED. THESE UNITS ARE DEDUCTIVE ALTERNATES. VARICOOL (OR APPROVED EQUAL) FACTORY ASSEMBLED INDIRECT EVAPORATIVE COOLING UNIT COMPLETE WITH WATER DISTRIBUTION SYSTEM, TWO SLEEVE TYPE, HIGH CAPACITY WATER FILTERS, FLANGED DUCT CONNECTIONS, U.L. LISTED FACTORY FURNISHED WATER PUMPS (FOR FIELD INSTALLATION), FACTORY INSTALLED FLOAT VALVE, UPPER WATER DISTRIBUTION ASSEMBLY, OVERFLOW AND BLEED CONNECTION, UNIT CONNECTIONS FOR PUMP SUCTION AND DISCHARGE, WATER BASIN, AND UNIT MOUNTING RAILS, INCLUDING OPTIONAL FACTORY INSTALLED INTAKE LOUVERS, PRE-FILTER SECTION, DRY-SIDE INTAKE COWL, WET-SIDE FAN/PLENUM SECTION, AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING SYSTEM. CABINET SHALL BE CONSTRUCTED OF 16 GAUGE #304 STAINLESS STEEL. ALL REQUIRED FASTENERS SHALL BE STAINLESS STEEL. tHE UNIT SHALL HAVE FLANGES DUCT CONNECTIONS ON ALL SIDES. MOUNTING RAILS SHALL BE PROVIDED TO SECURE THE UNIT AS REQUIRED. UNIT DESIGN TO ALLOW ACCESSIBILITY TO WATER DISTRIBUTION PAN, FILTERS, AND CORE ASSEMBLIES. THE UNIT SHALL BE PROVIDED WITH A TOTALLY NON-CORROSIVE WATER DISTRIBUTION SYTEM COMPLETE WITH OVERFLOW PROVISIONS. UNIT SHALL HAVE FACTORY INSTALLED INTERNAL WATER PIPING TO THE DISTRIBUTION SYSTEM, 3/4" OVERFLOW FITTING FROM BASIN, 3/4" ANTI-CAVITATION SUCTION FITTING, 3/4" PUMP DISCHARGE FITTING, AND 1/4" WATER MAKE-UP FITTING. UNIT SHALL HAVE FACTORY INSTALLED AND ADJUSTED FLOAT VALVE OF BRASS CONSTRUCTION. THE UNIT SHALL BE FACTORY FITTED WITH TWO HIGH EFFICIENCY, LOW PRESSURE DROP, SYNTHETIC, SLEEVE TYPE FILTERS. THE MEDIA SHALL BE LOW POROSITY AND NOT LESS THAN 200 SQUARE INCHES IN AREA. THE SLEEVE FILTERS ARE TO BE FIELD REMOVABLE AND REPLACEABLE. ALL ACCESSORIES MADE OF GALVANIZED STEEL ARE TO BE COATED FOR MAXIMUM CORROSION RESISTANCE USING A 95% ZINC-RICH COATING. PUMPS SHALL BE 115V/300W, 9 GPM AT 11' HD.

MODEL	CFM	DRY SIDE SP, WG	EAT	LAT	FAN HP (2 EA)	V/P	OPER. WT, LB
(2) 120-60	16,000	.4"	94/61	75/55	1-1/2	480-3PH	3200

24	**ROOF SUPPLY FAN:** GREENHECK (OR APPROVED EQUAL), FILTERED, FOR ROOFTOP CURB INSTALLATION. BELT DRIVEN, DUDI, FORWARD CURVED CENTRIFUGAL BLOWER MOUNTED ON VIBRATION ISOLATORS. DRIVES SHALL BE SIZED FOR A MINIMUM OF 145% OF DRIVEN HORSEPOWER. MOTOR AND BLOWER BEARINGS SHALL BE CONSTRUCTED OF HEAVY GAUGE GALVANIZED STEEL. COVER SHALL BE INSULATED TO PREVENT CONDENSATION AND SECURELY HELD IN PLACE BY FOUR (4) LATCHES. PERMANENT ONE INCH WASHABLE ALUMINUM FILTERS SHALL BE PROVIDED. FURNISH UNIT WITH MOTORIZED BACKDRAFT DAMPER (PNEUMATIC OPERATOR) WITH E/P SWITCH INTERLOCKED WITH FAN. FACTORY ROOF CURB.

SYMBOL	MODEL	CFM	SP " WG	MOTOR HP	VOLTAGE	SERVICE
24	RSF-9	1300	.3"	1/4	120V-1PH	MECH/ELEC.RM

25 + 26	**BASE MOUNTED CENTRIFUGAL FAN(S):** LOREN-COOK 270 CK (OR APPROVED EQUAL), SINGLE WIDTH, SINGLE INLET (AS SHOWN), NON-OVERLOADING SELECTIONS, WITH AIRFOIL TYPE WHEELS, INLET SCREENS, ADJUSTABLE PITCH V-BELT DRIVE SIZED FOR 150% OF MOTOR HP. FAN BASE SHALL BE EQUAL TO MASON INDUSTRIES TYPE "KSL" RIGID FLOATING CONCRETE PLATFORM. ISOLATORS SHALL BE OPEN-SNUBBED TYPE 85% EFFICIENT AT OPERATING RPM. PROVIDE WITH GREASABLE BALL BEARINGS, BELT GUARDS, FACTORY PERFORMANCE CURVES AND SOUND DATA FOR OPERATING CONDITIONS. MOTOR SHALL BE 480V-3PH-60CY, 1750 RPM, AMCA CERTIFIED.

SYMBOL	CFM	S.P. IN. WG	SIZE	MOTOR HP	ROTATION	ARRGMNT.	SERVICE
25	7500	1-1/2	27	3	CCW	TV	PARKING
26	7500	1-1/2	27	3	CW	TV	PARKING

27	**ELECTRIC UNIT HEATER:** CPE (OR APPROVED EQUAL), 6 EA. REQUIRED. HORIZONTAL DISCHARGE, WITH ALL SAFETY CUT-OUTS, BUILT-IN CONTACTORS, 5-YEAR HEATING ELEMENT GUARANTEE, U.L. APPROVED. ELEMENTS SHALL BE NICKEL CHROMIUM ALLOY RESISTANCE WIRE SURROUNDED WITH MAGNESIUM OXIDE AND SHEATHED IN STEEL SPIRAL-FINNED TUBES. UNIT SHALL HAVE ADJUSTABLE DISCHARGE LOUVERS, TOTALLY ENCLOSED MOTOR, 120V CONTROL CIRCUIT, TRANSFORMER AND UNIT MOUNTED 120V THERMOSTAT.

MODEL	KW	VOLTAGE
USA48530R127	5	480/3PH

NOT USED.

28	**WATER TREATMENT SYSTEMS:** DEDUCTIVE ALTERNATE WITH UNITS 23, INDUSTRIAL WATER ENGINEERING (IWE) (OR APPROVED EQUAL) INDIRECT EVAPORATIVE COOLER WATER TREATMENT SYSTEMS TO INCLUDE CHEMICALS, EQUIPMENT, INSTALLATION, TEST KITS, SERVICE & TRAINING NECESSARY FOR A COMPLETE WATER TREATMENT PROGRAM. SERVICE WILL INCLUDE COORDINATION OF INSTALLATION, STARTUP, AND BI-WEEKLY SERVICE FOR FOUR (4) MONTHS. MAINTENANCE OF THE SYSTEM THEREAFTER WILL BE PROVIDED BY OWNER. CONTRACTOR SHALL PROVIDE ALL CHEMICALS FOR ONE (1) YEAR OF SERVICE AND SHALL COMPLY WITH ALL APPLICABLE STATE & LOCAL HEALTH CODES. CHEMICAL TREATMENT SHALL CONSIST OF A SCALE, CORROSION INHIBITOR, AND ALGAE/SLIME CONTROL. EQUIPMENT: 4 EACH PADDLE TYPE FLOW SWITCHES, 1" GEMS FS-500 4 EACH CHEMICAL METERING PUMPS, IWE MODEL "7" 120V 4 EACH 6 GALLON POLYETHYLENE CHEMICAL TANKS, IWE MODEL 25417 PROVIDE TEST KIT AND WALL MOUNTING CABINET. TEST KIT TO INCLUDE: 1 EACH CONDUCTIVITY METER, 0-5000 MICROOHMS/CM 1 EACH ORGANO-PHOSPHONATE TEST KIT
29	
30	**AUTOMATIC AIR ELIMINATOR:** AMTROL 720 (OR APPROVED EQUAL), CAST IRON OR STEEL CONSTRUCTION, 150 PSI W.P.; 250-DEG.F W.T., 3/4" NPT BOTTOM INLET, 3/8" NPT TOP OUTLET.
31	**AIR VENT:** AMTROL 706 (OR APPROVED EQUAL) INDUSTRIAL AIR VENT, CAST IRON OR STEEL CONSTRUCTION, 150 PSI W.P., 240-DEG.F W.T., 3/4" NPT BOTTOM INLET AND 1/2" NPT TOP OUTLET.
32	**SPRING ISOLATION ASSEMBLY:** ISO-CURB TYPE AXR (OR APPROVED EQUAL). ROOFTOP CURB MOUNTED EQUIPMENT 11 & 12 SHALL BE ISOLATED FROM THE BUILDING STRUCTURE BY MEANS OF A FACTORY ASSEMBLED, UNITIZED VIBRATION CONTROL BASE CONSISTING OF EXTRUDED ALUMINUM UPPER AND LOWER MEMBERS INCORPORATING CADMIUM PLATED STEEL SPRINGS SELECTED FOR 1" STATIC DEFLECTION, SIZED AND POSITIONED TO INSURE UNIFORM DEFLECTION FOR THE ENTIRE SYSTEM. COORDINATE SIZE AND DESIGN WITH EQUIPMENT SUPPLIER AND SUBMIT CALCULATIONS AND EQUIPMENT SPECIFICATIONS TO A/E FOR APPROVAL. SPRING DIAMETER SHALL BE EQUAL TO OR GREATER THAN THE LOADED SPRING HEIGHT AND SHALL BE CAPABLE OF MINIMUM ADDITIONAL TRAVEL TO SOLID EQUAL TO 50% OF THE RATED DEFLECTION. A CONTINUOUS FLEXIBLE NEOPRENE HYGRO-GARD SEAL, REINFORCED WITH AN ALUMINUM BACK UP STRIP SHALL BE RIVETED TO UPPER AND LOWER MEMBERS. A CONTINUOUS CLOSED CELL NEOPRENE GASKET SHALL BE BONDED TO THE TOP AND BOTTOM SURFACES OF THE VIBRATION CONTROL BASE.
33	**EXISTING COMPUTER ROOM A/C UNIT:** DATAC MODEL NO. ACM-0AC-V-27, SERIAL 4-0300184-00, CONDENSING UNIT TO BE RELOCATED AS SHOWN ON PLANS. COORDINATE RELOCATION WITH USER TO AVOID UNWANTED COMPUTER DOWNTIME. MAY NEED TO BE SCHEDULED ON WEEKEND, HOLIDAY OR NIGHT. COORDINATE ALSO WITH FACTORY REPRESENTATIVE FOR PROPER PIPE SIZING AND CONFIGURATION. PIPE SIZE: 5/8" COPPER REFRIGERANT TUBING ELECTRICAL: 2 EA. FAN MOTORS, 1/3 HP 480V, 3PH
34 + 35	**CEILING EXHAUST FAN:** PENN (OR APPROVED EQUAL) STEEL CABINET WITH ACOUSTICAL LINING IN THE HOUSING INTERIOR, CENTRIFUGAL FAN WHEEL, COMPLETE WITH INLET GRILLE, DISCHARGE COLLAR, ANTI-BACKDRAFT DAMPER, ROOF JACK, RESILIENT MOTOR MOUNTS, AMCA RATED, INTERNALLY MOUNTED TERMINAL BOX.

SYMBOL	MODEL	CFM @ SP " WG	WATTS	VOLTAGE	SERVICE
34&35	ZJ-1	130 @ .375"	105	120-1PH	5TH RR

15	**SOUND TRAP:** RINK "SOUN-CHEK" (OR APPROVED EQUAL), 2 REQUIRED. FACTORY PRE-FABRICATED UNIT, WITH 22 GAUGE GALV. STEEL OUTER CASING TO WITHSTAND 10" W.G. DIFFERENTIAL OPERATING PRESSURE, 22 GAUGE GALVANIZED PERFORATED INTERIOR PARTITIONS, WITH ABSORBENT FILLER MATERIAL OF 4 # DENSITY INORGANIC FIBER. UNITS SHALL HAVE THE FOLLOWING ATTENUATION EACH LISTED OCTAVE BAND, AT 1000 FPM FACE VELOCITY. RINK; MODEL A60, AT 0.18" STATIC PRESSURE DROP. DB CLASS 25.

BAND	1	2	3	4	5	6	7	8
DB	6	11	26	40	48	50	31	19

SYMBOL	CFM	MODEL	SIZE	SYSTEM
15	7000	A60	60"L x 18"H x 72"W	RETURN AIR

16	**PUMP FLEX CONNECTION:** GENERAL RUBBER STYLE 1010 WITH CONTROL UNITS, 150 UPSIG, FURNISH WITH ALL FLANGES AND BOLTS.
17	NOT USED.
V-1 THRU V-16	**SINGLE DUCT V.A.V. TERMINAL UNIT:** KRUGER LMH II (OR APPROVED EQUAL), THROTTLING TERMINAL UNITS COMPLETE WITH PNEUMATIC OPERATOR, LINKAGE, AND COMPLETE FACTORY MOUNTED CONTROL PACKAGE INCLUDING RESET CONSTANT VOLUME CONTROLLER, RESTRICTOR TEES, AND SIGNAL TRANSMITTER AS REQUIRED FOR COMPLETE SYSTEM. (THERMOSTAT AND TUBING NOT INCLUDED). UNITS SHALL HAVE OPEN END DUCT CONNECTIONS (LOW VELOCITY SIDE), AND ALL HANGER BRACKETS. UNITS SHALL BE SUITABLE FOR VARIABLE INLET STATIC PRESSURE UP TO 6" WITH NO APPRECIABLE VARIANCE IN OUTLET VELOCITY. UNITS SHALL HAVE ADJUSTABLE MINIMUM AND MAXIMUM SET POINTS, DIRECT ACTING NORMALLY OPEN VALVE, OPEN ON LOSS OF CONTROL AIR PRESSURE SIGNAL. THE FAN SECTION SHALL BE EQUIPPED WITH 1" REPLACEABLE FILTERS (FURNISH ONE SPARE FILTER FOR EACH UNIT) RA SOUND BAFFLE AND BAROMETRIC BACKDRAFT DAMPERS. FANS SHALL BE 115V-1PH, 3 SPEED AND BE FURNISHED WITH A UNIT MOUNTED 3-SPEED SWITCH AND DISCONNECT SWITCH. FANS SHALL BE SIZED TO ENABLE SWITCHING TO AT LEAST ONE HIGHER SPEED OVER THE LISTED CFM. FAN SHALL BE ENERGIZED BY AN ADJUSTABLE P/E SWITCH, FURNISHED WITH UNIT, WITH AN INITIAL SETTING OF 7.5 PSI SIGNAL FROM A PNEUMATIC THERMOSTAT (THERMOSTAT AND TUBING NOT INCLUDED). ALL UNITS SHALL BE FURNISHED WITH 2-ROW HEATING COILS OF THE SIZE AND CAPACITIES LISTED BELOW, BASED ON 180-DEG.F EWT 20-DEG.F DROP, 60-DEG.F EAT, 115-DEG.F MINIMUM LAT AND LISTED CFM. EXCEPT WHERE SHOWN ON DRAWINGS, UNITS WITH HEATING COILS SHALL HAVE COIL VALVE (FURNISHED BY CONTROLS CONTRACTOR) OPERATING BETWEEN 3 PSIG AND 8 PSIG, AND FULLY CLOSED AT 8 PSIG, AND MINIMUM AIR FLOW FROM 3 PSIG TO 8 PSIG. COILS SHALL BE DOWNSTREAM OF THE MIXED PRIMARY AND FAN-SUPPLIED AIR, AND SHALL HAVE A MAXIMUM WATER P.D. OF 3' AND AN AIR P.D. OF .25" W.G. AT HEATING CFM. MAXIMUM AIR P.D. ACROSS VAV AND COIL SECTION SHALL BE .5" W.G. AT COOLING CFM. MAXIMUM AT 1" AND MAXIMUM CFM SHALL BE 35. SEE PLANS FOR MAXIMUM CFM & 2-WAY OR 3-WAY WATER VALVE REQUIREMENTS.

SYMBOL	SIZE (INLET)	NOM CFM (MAX)	MIN.& HTG. CFM	COIL GPM	M BTUH HTG
V-1	06"	450	230	1.1	11.3
V-2	08"	450	300	1.5	14.7
V-3	08"	550	300	1.5	14.7
V-4	08"	600	300	1.5	14.7
V-5	08"	850	350	1.7	17.1
V-6	10"	900	450	2.2	22
V-7	10"	1000	450	2.2	22
V-8	10"	1400	450	2.2	22
V-9	12"	2000	700	3.4	34.3
V-10	10"	1400	420		
V-11	12"	2000	600		
V-12	08"	700	300		
V-13	08"	450	250		
V-14	10"	850	420		
V-15	08"	650	200		
V-16	06"	450	135		

FV-1 THRU FV-5	**SINGLE DUCT VAV TERMINAL UNIT WITH FAN:** KRUGER RKFT (OR APPROVED EQUAL) THROTTLING UNITS EQUIPPED WITH FAN TO DRAW AIR OUT OF THE PLENUM SPACE FOR HEATING. THROTTLING TERMINAL UNITS SHALL BE COMPLETE WITH PNEUMATIC OPERATOR, LINKAGE, AND COMPLETE FACTORY MOUNTED CONTROL PACKAGE INCLUDING RESET CONSTANT VOLUME CONTROLLER, RESTRICTOR TEES, AND SIGNAL TRANSMITTER AS REQUIRED FOR COMPLETE SYSTEM. (THERMOSTAT AND TUBING NOT INCLUDED). UNITS SHALL HAVE OPEN END DUCT CONNECTIONS (LOW VELOCITY SIDE), AND ALL HANGER BRACKETS. UNITS SHALL BE SUITABLE FOR VARIABLE INLET STATIC PRESSURE UP TO 6" WITH NO APPRECIABLE VARIANCE IN OUTLET VELOCITY. UNITS SHALL HAVE ADJUSTABLE MINIMUM AND MAXIMUM SET POINTS, DIRECT ACTING NORMALLY OPEN VALVE, OPEN ON LOSS OF CONTROL AIR PRESSURE SIGNAL. THE FAN SECTION SHALL BE EQUIPPED WITH 2" THICK THROW-AWAY GLASS FIBER, FURNISH ONE EXTRA SET OF FILTERS FOR EACH UNIT. MODULATING 100% RETURN/EXHAUST FAN SHALL BE 30" DIAM. DOUBLE INLET AIRFOIL FAN AS DESCRIBED FOR SUPPLY FAN, WITH INLET VANES AND RETURN/EXHAUST OPERATORS TO MODULATE AIR FLOW IN RESPONSE TO OUTDOOR AIR DAMPER POSITION AND SUPPLY FAN INLET VANE POSITION. FURNISH ALL CONTROLS, DAMPERS, MOTORS, MOISTURE ELIMINATORS, ETC. FOR A FULLY OPERATIONAL ECONOMIZER CYCLE. MINIMUM OSA SHALL BE ADJUSTABLE FROM 0-25%. ALL OSA DAMPERS SHALL CLOSE FULLY WHEN THE UNIT IS SHUT DOWN. OSA SHALL ENTER FROM THE SIDES OF THE UNIT AND BE COMPATIBLE WITH INDIRECT EVAPORATIVE COOLERS 23 AND 24 AS SHOWN ON DRAWINGS. INSTALLATION SPACE IS LIMITED. SUBSTITUTIONS MUST BE COMPATIBLE WITH AVAILABLE SPACE AND ARRANGEMENTS AS SHOWN ON THE DRAWINGS. IT WILL BE THE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER TO COORDINATE ANY DEVIATIONS WITH THE APPROPRIATE CONTRACTORS. DISCHARGE AIR TEMPERATURE CONTROLS SHALL BE PROVIDED TO RESET SUPPLY AIR TEMPERATURE IN RESPONSE TO OUTSIDE AIR TEMPERATURE. SUPPLY AIR TEMPERATURE SHALL BE INCREASED 1-DEG.F (55 - 60-DEG.F) FOR EVERY 5-DEG.F DECREASE IN OSA TEMPERATURE (70-DEG.F - 45-DEG.F). ON-OFF-AUTO CONTROLS AND ADJUSTABLE NIGHT SETBACK CONTROLS WITH MANUAL OVERRIDES SHALL BE FURNISHED WITH EACH UNIT (FIELD INSTALLED) TO SHUT THE SYSTEM OFF DURING UNOCCUPIED PERIODS. CONTROLS SHALL BE ADJUSTABLE TO 50 - 65-DEG.F FOR HEATING AND 80 - 90-DEG.F FOR COOLING. (HEATING SET-BACK, COOLING SET-UP) LISTED OPERATING CONDITIONS ARE FOR 5200 FEET ELEVATION, 95-DEG.F DB AMBIENT, 65-DEG.F DB/63-DEG.F WB EAT, 480V-3PH-60HZ. FURNISH 5 YEAR COMPRESSOR WARRANTY. SUPPLY FAN ESP IS EXTERNAL TO ECONOMIZER, ROOF CURB, FILTERS, COIL, INLET VANES, FAN & CASING. TSP INCLUDES .5" FOR DIRTY FILTER.

SYMBOL	SIZE (INLET)	NOM. PRIMARY CFM MAX/MIN	COIL GPM	MBTUH HTG
FV-1	12"	2000/600	5.6	55.7
FV-2	08"	600/200	2.5	24.5
FV-3	08"	850/350	3.1	31.2
FV-4	10"	1400/420	4.8	47.7
FV-5	06"	450/150	1.6	15.6

SYMBOL	FAN CFM @ .6" WG	FAN HP	FAN PLUS PRIMARY TOT. HTG. CFM
FV-1	650	1/3	1250
FV-2	350	1/4	550
FV-3	350	1/4	700
FV-4	650	1/3	1070
FV-5	200	1/8	350

18	**CONTROL AIR COMPRESSOR:** DUPLEX AIR COMPRESSOR UNIT, WITH AUTOMATIC ALTERNATOR. COMPRESSOR SIZED TO SUPPLY AIR FOR PNEUMATIC CONTROL SYSTEM WITH OPERATION AT 33% CAPACITY. APPROXIMATELY 3 HP FOR EACH COMPRESSOR FOR USE WITH 480V-3PH-60HZ VOLTAGE. FURNISH COMPLETE WITH 80 GALLON RECEIVER OR AS REQUIRED TO MEET OPERATING CONDITIONS, BELT GUARDS, INTAKE FILTER AND MUFFLER, AUTOMATIC TANK DRAIN AND SHUT-OFF, PRESSURE RELIEF VALVE, PRESSURE SWITCH AND PRESSURE REDUCING STATION. CONTROL SUBCONTRACTOR SHALL CALCULATE THE AIR REQUIREMENTS BASED ON THE ABOVE SPECIFICATION AND SHALL BE TOTALLY RESPONSIBLE FOR FURNISHING THE CORRECT HORSEPOWER AND FOR COORDINATING WITH THE ELECTRICAL SUBCONTRACTOR. JOHNSON, HONEYWELL, BARBER COLMAN POWERS, OR ROBERTSHAW. RECEIVER SHALL BE ASME RATED AT 125 PSIG.
19	**REFRIGERATED AIR DRYER:** SELF CONTAINED AIR-COOLED, CAPACITY TO DRY AIR SUPPLIED BY CONTROLS AIR COMPRESSOR FROM 95-DEG.F SATURATED TO -10-DEG.F DEWPOINT (ATMOSPHERE) WITH AUTOMATED DRAIN VALVE. APPROXIMATELY 1/5 HP, 120V-1PH-60HZ, VANAIR, HONEYWELL, HANKINSON, OR INGERSOLL-RAND. UNIT SHALL BE OF THE CYCLING TYPE AND NOT RUN CONTINUOUSLY.
20	**SUCTION DIFFUSER:** INLET TO PUMPS 2 & 3 SHALL HAVE SUCTION DIFFUSERS. UNITS SHALL BE SIZED WITH PUMP FLANGES OF NPT FITTINGS SAME SIZE TO MATCH PUMP INLET, AND ONE SIZE LARGER ON THE SYSTEM SIDE. UNITS SHALL BE FURNISHED COMPLETE WITH START-UP STRAINER (TO BE REMOVED AFTER START-UP) AND ORIFICE CYLINDER, C.I. BODY, STEEL CYLINDER AND VANES. BELL & GOSSETT.

SYMBOL	DESCRIPTION
1	**BOILER:** BRYAN (OR APPROVED EQUAL) WATER TUBE HOT WATER BOILER, AGA APPROVED NATURAL GAS FIRED FLEXIBLE TUBE UNIT, WITH TOP OUTLET VERTICAL DRAFT HOODS AND 1-1/2" OD TUBES. ORIFICED FOR 5200 FT ELEVATION FACTORY WIRED PACKAGED CONTROLS UNIT. STEEL INSULATED JACKET, REMOVABLE PANELS. ALL OPERATING AND SAFETY CONTROLS INCLUDING AQUASTATS, LOW WATER CUT-OFF, PRESSURE RELIEF VALVE, COMBINATION MAGNETIC CONTACTORS AND FUSE BLOCKS, TIME DELAY RELAYS, CONTROL TRANSFORMER AND POWER SUPPLY BOXES. UNIT SHALL BE RATED FOR 125 PSIG MAXIMUM W.P., WITH 50 PSIG ASME RELIEF VALVE. IRI APPROVED GAS TRAIN BURNER SYSTEM, INCLUDING MAIN AND PILOT VALVES, PRESSURE REGULATORS, AUTOMATIC SAFETY VALVES AND ELECTRONIC SPARK IGNITION SYSTEM WITH AUTOMATIC SEQUENCING HIGH-LOW FIRE AND 100% SHUT-OFF. UNIT TO BE FACTORY ASSEMBLED. MANUFACTURER'S REPRESENTATIVE TO SUPERVISE INSTAL

BERNALILLO COUNTY DETENTION CENTER

METROPOLTION COURT ADMIN.

ROMA AV.

NEW BUILDING ADDITION

EXISTING RELOCATED CONDENSER FOR COMMUNICATIONS COMPUTER

EXISTING APD/BCSO BUILDING

FIFTH ST.

EXISTING PARKING

EXISTING PARKING

FOURTH ST.

MARQUETTE AV.

CITY HALL

UTILITY SITE PLAN

NORTH SCALE 1"=20'-0"

METROPOLTIO

N.

1 E … TO BE REMOVED AND RELOCATED A CL… …CTION BOX AT EXISTING LOCATIO NEW CON… …H EXISTING, AND EXTEND TO NEW LO CONNECT TO MA… …STING.

LAW ENFORCEMENT CENTER

400 Roma N.W.

Albuquerque, New Mexico 87102

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Project Number 8546

Date 4-14-86

Checked by

Drawing Title

REGISTERED PROFESSIONAL ENGINEER 1632 UHL & LOPEZ 1746 STATE OF NEW MEXICO

Drawing E 1.1

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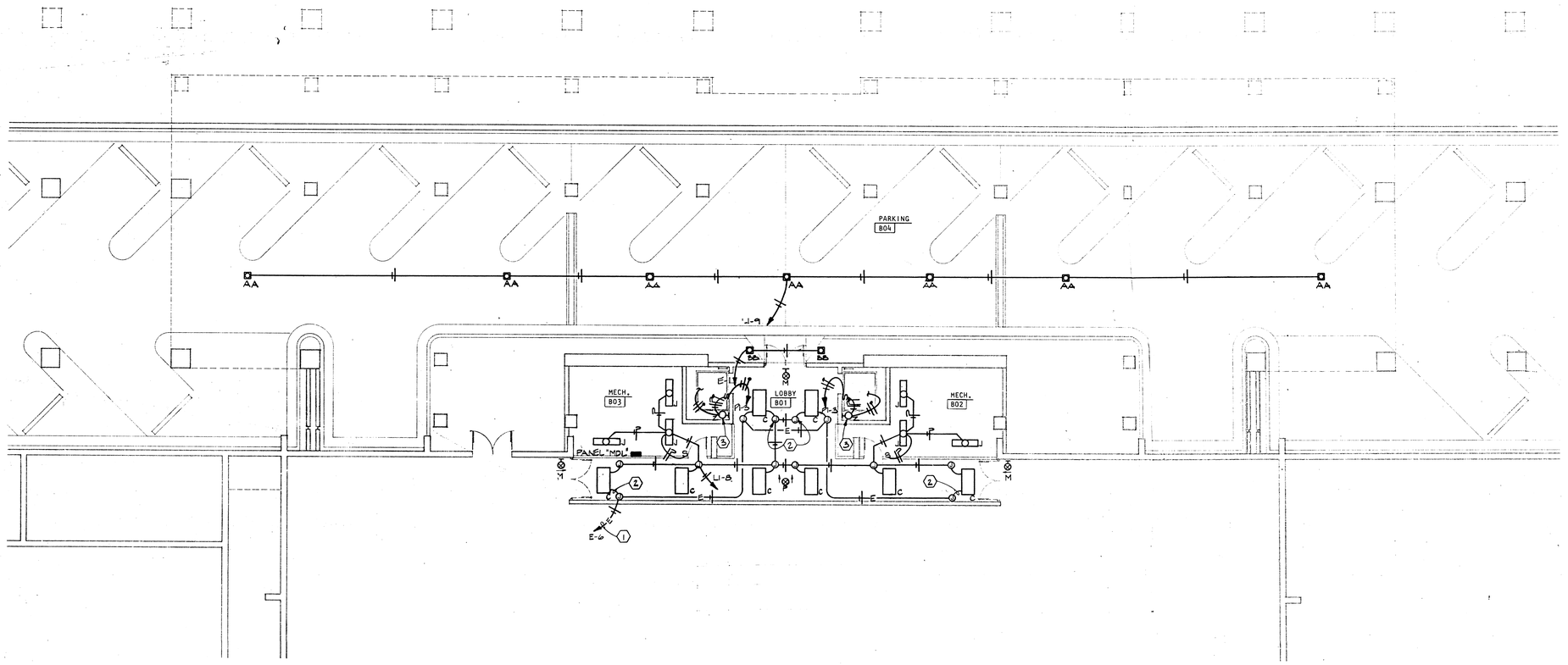
NOTES

1. HOMERUN SHALL EXTEND TO EMERGENCY PANEL LOCATED IN BASEMENT OF EXISTING BUILDING.
2. THE CENTER LAMP OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE OUTER TWO LAMPS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT FOR THIS ROOM. TYPICAL.
3. MOUNT TYPE "Z" FIXTURE ON WALL IN ELEVATOR PIT. EXTEND WIRING TO RECEPTACLE IN PIT.



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

BASEMENT FLOOR LIGHTING PLAN

STATE OF NEW MEXICO
Sam L. Hutchinson
No. 5057
James A. Burton
No. 4568
John W. Burton
No. 856
REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
1632
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&
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4/14/86
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Drawing Title

Drawing
E 2.1
Sheet
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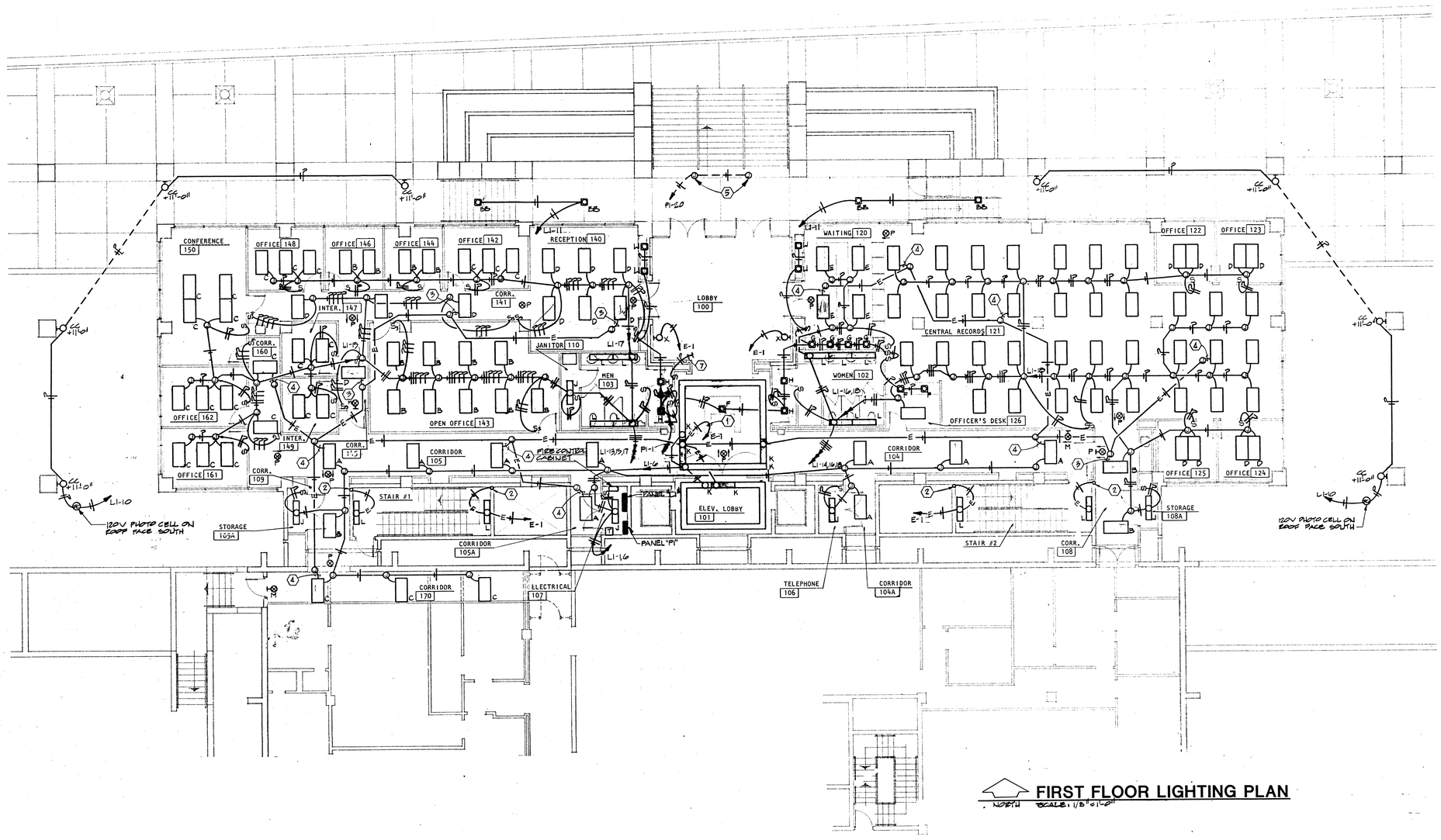
of
111

NOTES

1. HOMERUN SHALL EXTEND TO EMERGENCY PANEL LOCATED IN BASEMENT OF EXISTING BUILDING.
2. EMERGENCY LIGHTING CIRCUIT SHALL CONTINUE UP THROUGH STAIRWAY TO LIGHT FIXTURE ON THE NEXT FLOOR.
3. THE TWO CENTER LAMPS OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT FOR THIS ROOM.
4. THE CENTER LAMP OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT FOR THIS ROOM.
5. JUNCTION BOX FOR LIGHTED STAIR RAILS. SEE ARCHITECTURAL FOR EXACT LOCATION.
6. ALL FIXTURES ON THIS FLOOR SHALL BE TYPE "E" UNLESS OTHERWISE NOTED.



FIRST FLOOR LIGHTING PLAN

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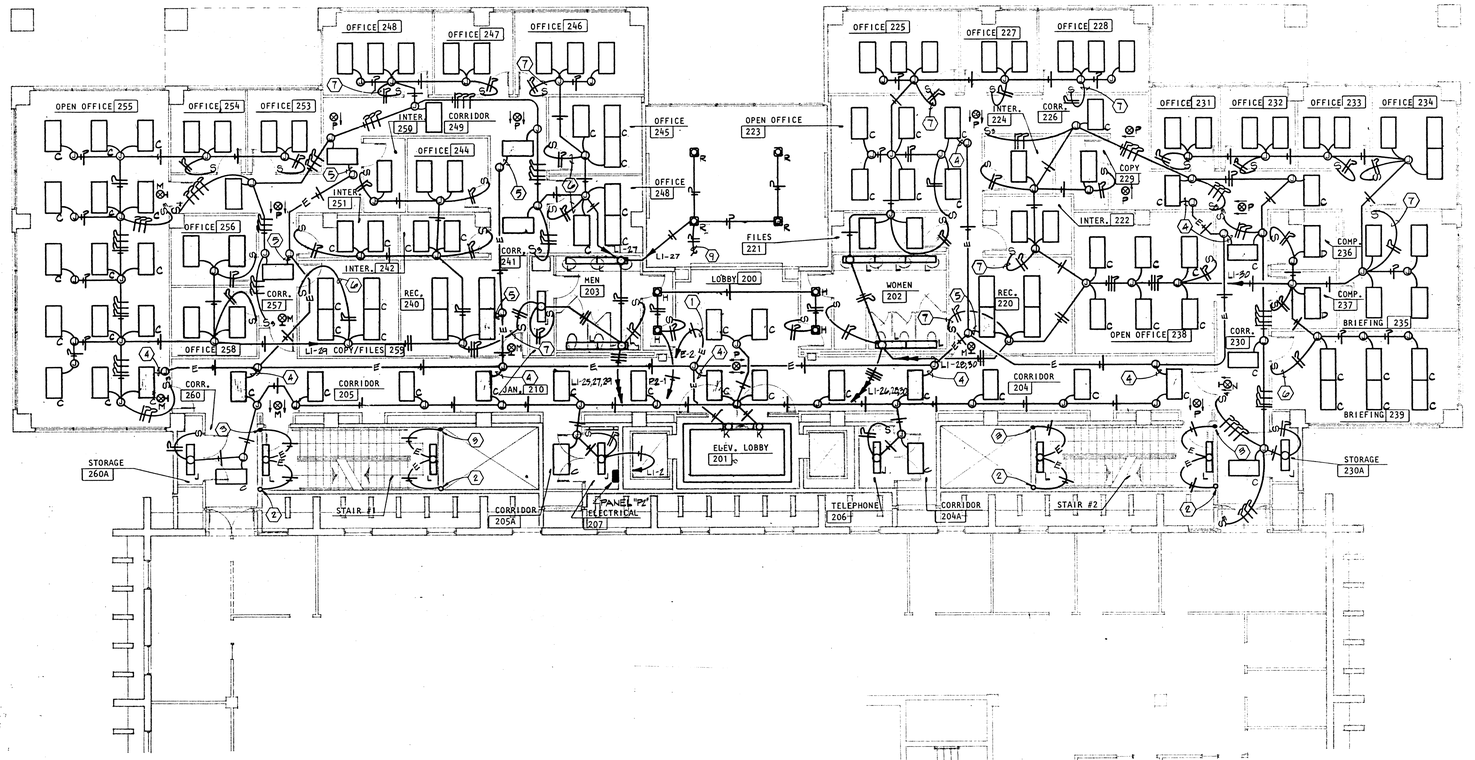
Drawing: E 2.2
Sheet: 89 of 111

STATE OF NEW MEXICO — Rose L. Hutchinson No. 853 — James L. Burton No. 855 — John E. Brown No. 855 — REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER — 1632 — U.H.L. & LOPEZ 1746 — STATE OF NEW MEXICO

NOTES

1. HOMERUN SHALL EXTEND TO EMERGENCY PANEL LOCATED IN BASEMENT OF EXISTING BUILDING.
2. EMERGENCY LIGHTING CIRCUIT SHALL CONTINUE UP THROUGH STAIRWAY TO NEXT FIXTURE.
3. EMERGENCY LIGHTING CIRCUIT SHALL CONTINUE DOWN THROUGH STAIRWAY TO NEXT FIXTURE.
4. THE CENTER LAMP OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT FOR THIS ROOM.
5. THE TWO CENTER LAMPS OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT FOR THIS ROOM.
6. LIGHTING IN THIS ROOM SHALL 9E ON A DUEL LEVEL SYSTEM. THE TWO OUTER LAMPS OF EACH FIXTURE SHALL BE CONTROLLED BY ONE SWITCH WHILE THE REMAINING LAMP SHALL BE CONTROLLED BY A SECOND SWITCH.
7. LIGHTING IN THIS ROOM SHALL BE ON A DUEL LEVEL SYSTEM. THE TWO OUTER LAMPS OF EACH FIXTURE SHALL BE CONTROLLED BY ONE SWITCH WHILE THE REMAINING TWO LAMPS SHALL BE CONTROLLED BY A SECOND SWITCH.
8. ALL FIXTURES SHALL BE TYPE "B" UNLESS OTHERWISE NOTED.
9. EXTEND TO SWITCH IN FIRST FLOOR LOBBY.



SECOND FLOOR LIGHTING PLAN (B)

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

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E 2.3
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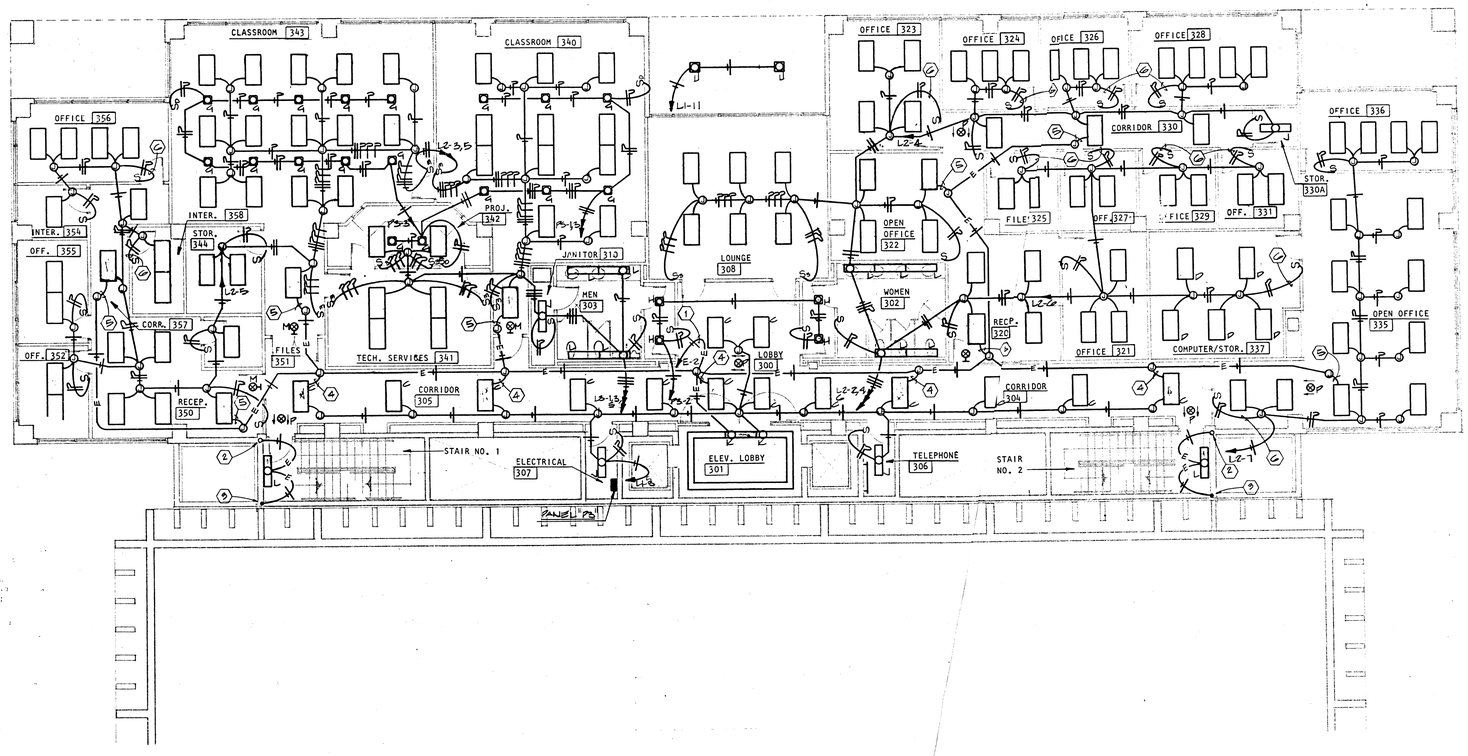
STATE OF NEW MEXICO — Ross L. Hutchinson 7627 — James A. Brown 7627 — Jack K. Burton No. 855 — REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEERS — 1632 UHL & LOPEZ 1746 — STATE OF NEW MEXICO

NOTES

1. HOMERUN SHALL EXTEND TO EMERGENCY PANEL LOCATED IN BASEMENT OF EXISTING BUILDING.
2. EMERGENCY LIGHTING CIRCUIT SHALL CONTINUE UP THROUGH STAIRWAY TO NEXT FIXTURE.
3. EMERGENCY LIGHTING CIRCUIT SHALL CONTINUE DOWN THROUGH STAIRWAY TO NEXT FIXTURE.
4. THE CENTER LAMP OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT FOR THIS ROOM.
5. THE TWO CENTER LAMPS OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT FOR THIS ROOM.
6. LIGHTING IN THIS ROOM SHALL BE ON A DUAL LEVEL SYSTEM. THE TWO OUTER LAMPS OF EACH FIXTURE SHALL BE CONTROLLED BY ONE SWITCH, WHILE THE REMAINING TWO LAMPS SHALL BE CONTROLLED BY A SECOND SWITCH.
7. ALL FIXTURES SHALL BE TYPE "B" UNLESS OTHERWISE NOTED.



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

THIRD FLOOR LIGHTING PLAN (7)

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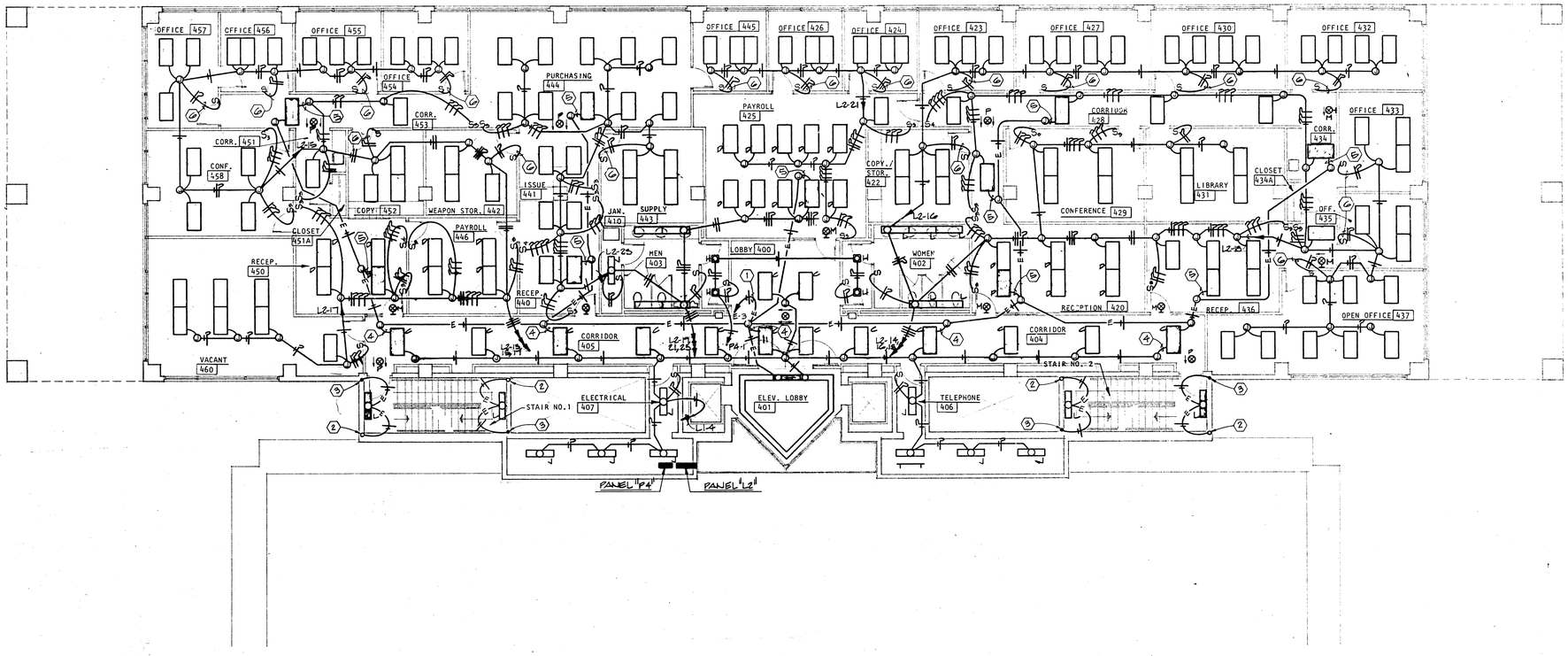
STATE OF NEW MEXICO

Drawing: E 2.4
Sheet: 21 of 11

NOTES

1. HOMERUN SHALL EXTEND TO EMERGENCY PANEL LOCATED IN BASEMENT.
2. EMERGENCY LIGHTING CIRCUIT SHALL CONTINUE UP THROUGH STAIRWAY TO NEXT FIXTURE.
3. EMERGENCY LIGHTING CIRCUIT SHALL CONTINUE DOWN THROUGH STAIRWAY TO NEXT FIXTURE.
4. THE CENTER LAMP OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE REGULAR LIGHTING CIRCUIT FOR THIS ROOM.
5. THE TWO CENTER LAMPS OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE REGULAR LIGHTING CIRCUIT FOR THIS ROOM.
6. LIGHTING IN THIS ROOM SHALL BE ON A DUAL LEVEL SYSTEM. THE TWO OUTER LAMPS OF EACH FIXTURE SHALL BE CONTROLLED BY ONE SWITCH, WHILE THE REMAINING TWO LAMPS SHALL BE CONTROLLED BY A SECOND SWITCH.
7. ALL FIXTURES SHALL BE TYPE "B" UNLESS OTHERWISE NOTED.



NORTH

FOURTH FLOOR LIGHTING PLAN (7)

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

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 4857
James L. Burton
No. 855
REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER
1632
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1746
STATE OF NEW MEXICO

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Drawing Title

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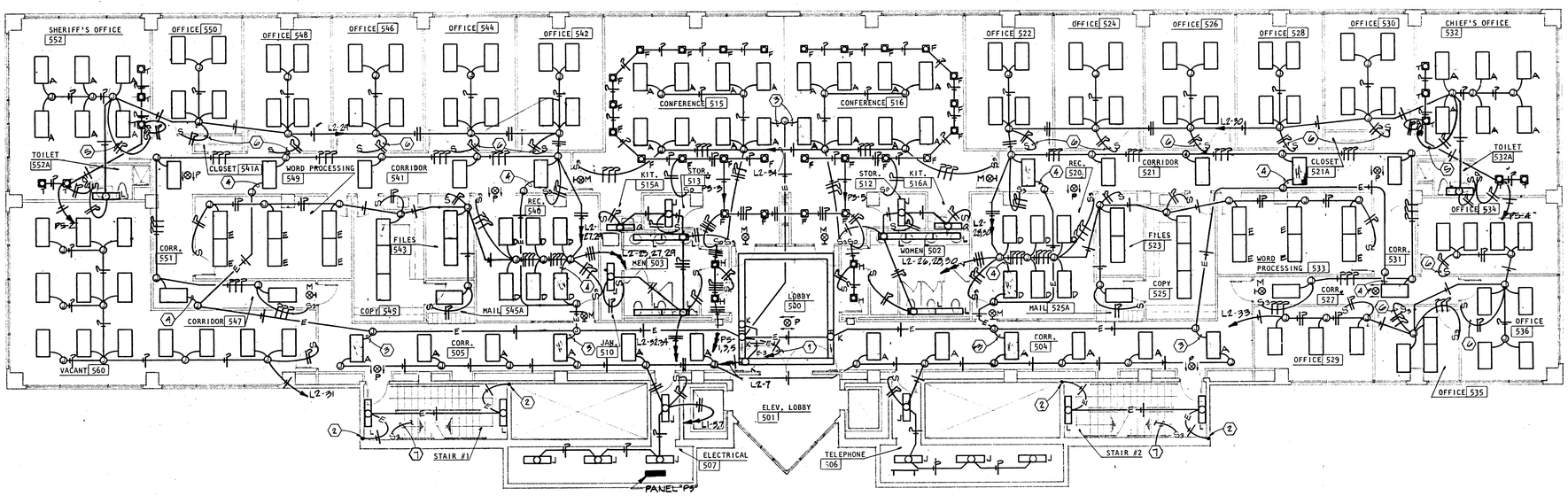
111

NOTES

1. HOMERUN SHALL EXTEND TO EMERGENCY PANEL LOCATED IN BASEMENT OF EXISTING BUILDING.
2. EMERGENCY LIGHTING CIRCUIT SHALL CONTINUE DOWN THROUGH STAIRWAY TO NEXT FIXTURE.
3. THE CENTER LAMP OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE REGULAR LIGHTING CIRCUIT FOR THIS ROOM.
4. THE TWO CENTER LAMPS OF THIS FIXTURE SHALL BE ON THE EMERGENCY CIRCUIT. THE TWO OUTER LAMPS SHALL BE CONNECTED TO THE REGULAR LIGHTING CIRCUIT FOR THIS ROOM.
5. LIGHTING IN THIS ROOM SHALL BE ON A DUEL LEVEL SYSTEM. THE TWO OUTER LAMPS OF EACH FIXTURE SHALL BE CONTROLLED BY ONE SWITCH, WHILE THE REMAINING LAMP SHALL BE CONTROLLED BY A SECOND SWITCH.
6. LIGHTING IN THIS ROOM SHALL BE ON A DUEL LEVEL SYSTEM. THE TWO OUTER LAMPS OF EACH FIXTURE SHALL BE CONTROLLED BY ONE SWITCH, WHILE THE REMAINING TWO LAMPS SHALL BE CONTROLLED BY A SECOND SWITCH.
7. SEE PENTHOUSE LIGHTING PLAN FOR CONTINUATION OF THIS CIRCUIT.
8. ALL FIXTURES SHALL BE TYPE "B" UNLESS OTHERWISE NOTED.



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

FIFTH FLOOR LIGHTING PLAN

STATE OF NEW MEXICO
Ken L. Hutchinson No. 7857
James A. Brown No. 7648
Mark L. Burton No. 855
REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER
1632 UHL & LOPEZ 1746
STATE OF NEW MEXICO

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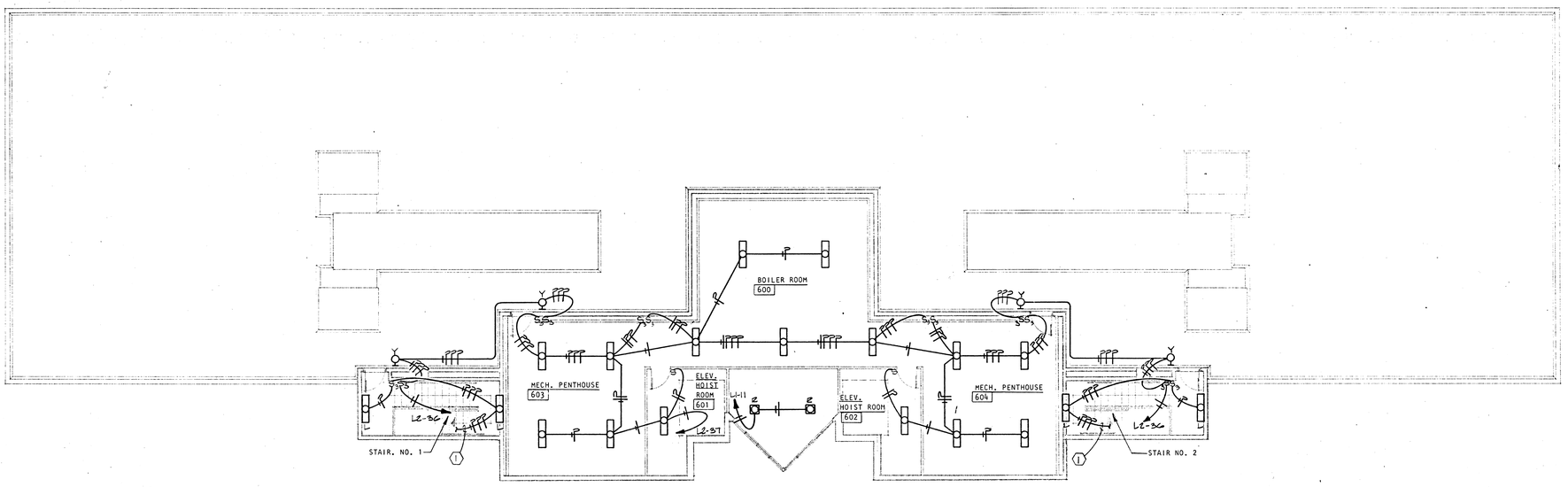
Drawing E 2.6
Sheet 113

NOTES

1. EXTEND TO SWITCH ON 5TH FLOOR LANDING.
2. ALL FIXTURES ON THIS PLAN SHALL BE TYPE "J" UNLESS OTHERWISE NOTED.



NORTH SCALE: 1/8" = 1'-0" **PENTHOUSE & ROOF LIGHTING PLAN** (2)

STATE OF NEW MEXICO
Ann L. Hutchinson No. 1857
John A. Burton No. 855
REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER
1632
UHL & LOPEZ
1746
STATE OF NEW MEXICO

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E 2.7
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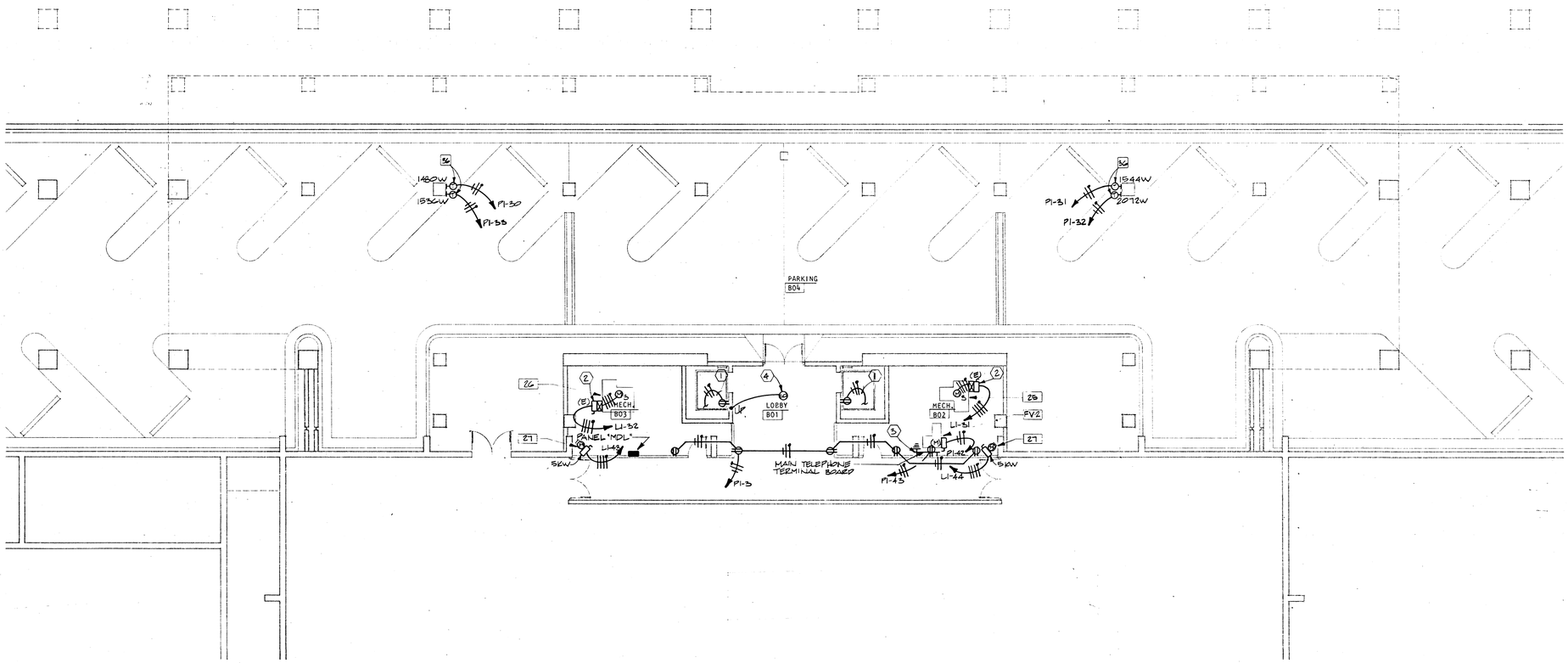
NOTES

1. MOUNT RECEPTACLE IN ELEVATOR PIT. EXTEND WIRING TO TYPE "Z" FIXTURE IN PIT.
2. PROVIDE AND INSTALL A NEMA-1-600V COMBINATION MOTOR STARTER AND 30A FUSIBLE DISCONNECT. FUSE 5.6A. PROVIDE WITH H-O-A AND RED PILOT LIGHT ON COVER. MOUNT TOP AT 4'-6".
3. PROVIDE AND INSTALL A 4'X8'X3/4" FIRE FINISHED PLYWOOD BOARD, LEAVE 1" CLEAR SPACE ON EITHER SIDE OF BOARD.
4. PROVIDE AND INSTALL PHOTOELECTRIC SMOKE DETECTOR. CONNECT TO ELEVATOR CONTROL IN PENTHOUSE.



NORTH

BASEMENT FLOOR POWER PLAN

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

STATE OF NEW MEXICO — Rod L. Hutchinson 1612 — Jerold A. Graham 4508 — Alfred E. Burton 1616 — REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEERS — 1638 UHL & LOPEZ 1746 — STATE OF NEW MEXICO

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Date: 4/14/86
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Drawing Title:

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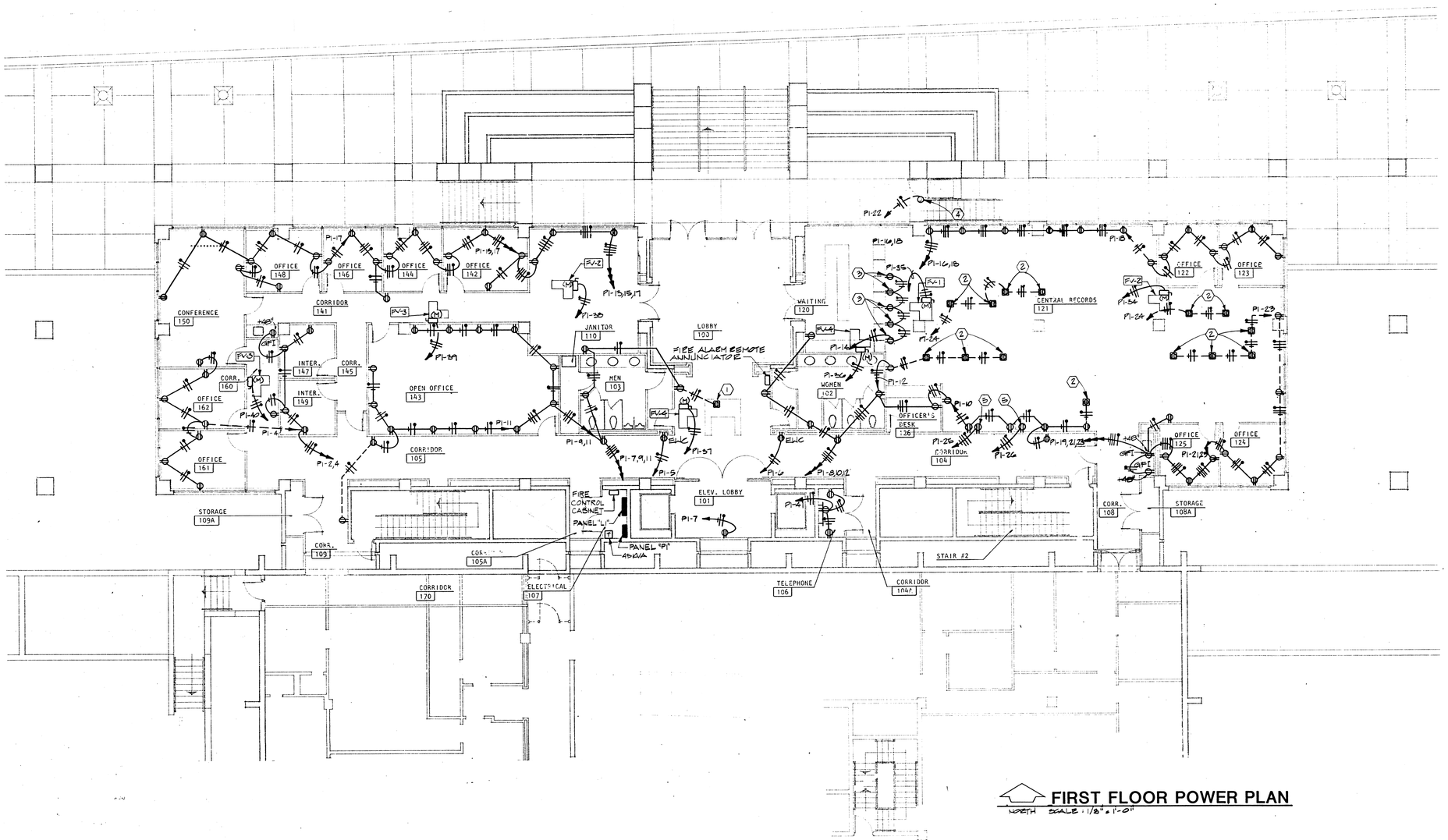
NOTES

1. JUNCTION BOX ANC RECEPTACLE LOCATED IN SECURITY COUNTER. SEE ARCHITECTURAL FOR EXACT LOCATION.
2. COORDINATE EXACT LOCATION WITH FINAL FURNATURE LAYOUT.
3. OUTLET SHALL BE LOCATED ON COUNTER FACE. SEE ARCHITECTUAL FOR EXACT LOCATION.
4. JUNCTION BOX FOR CONNECTION OF WHEELCHAIR LIFT. LOCATE AND CONNECT PER SUPPLIERS WIRING DIAGRAM.
5. RECEPTACLES FOR COPIERS TO BE RELOCATED FROM EXISTING BUILDING. VERIFY CONFIGURATION OF PLUG AND RECEPTACLE. LABEL "COPIER".



FIRST FLOOR POWER PLAN

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

STATE OF NEW MEXICO
Ron L. Hutchinson
No. 857
June 24, 1987
John R. Burton
No. 855
REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER
1632
JULIO J. LOPEZ
1746
STATE OF NEW MEXICO

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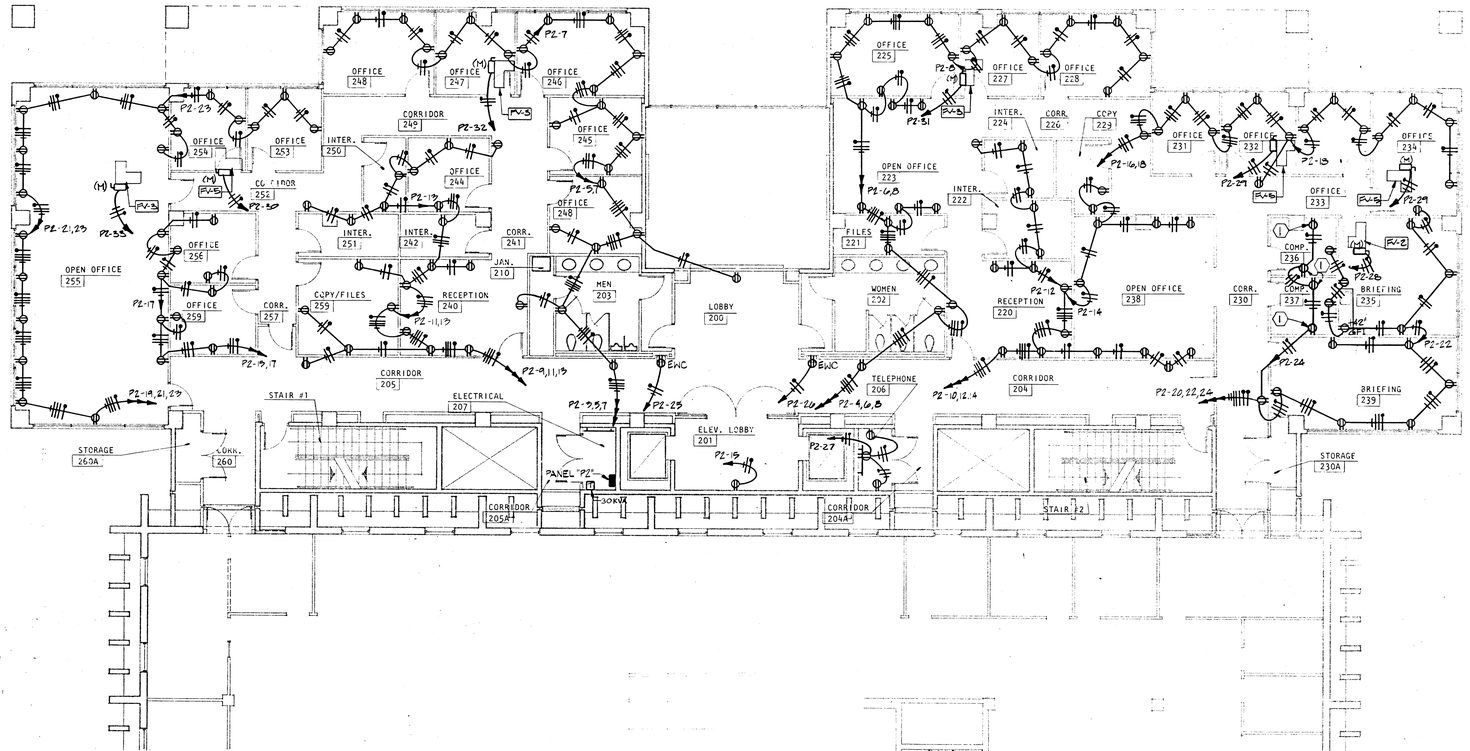
NOTES

1. COMPUTER RECEPTACLES SHALL BE ORANGE AND BE LABELED "COMPUTER".



SECOND FLOOR POWER PLAN

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

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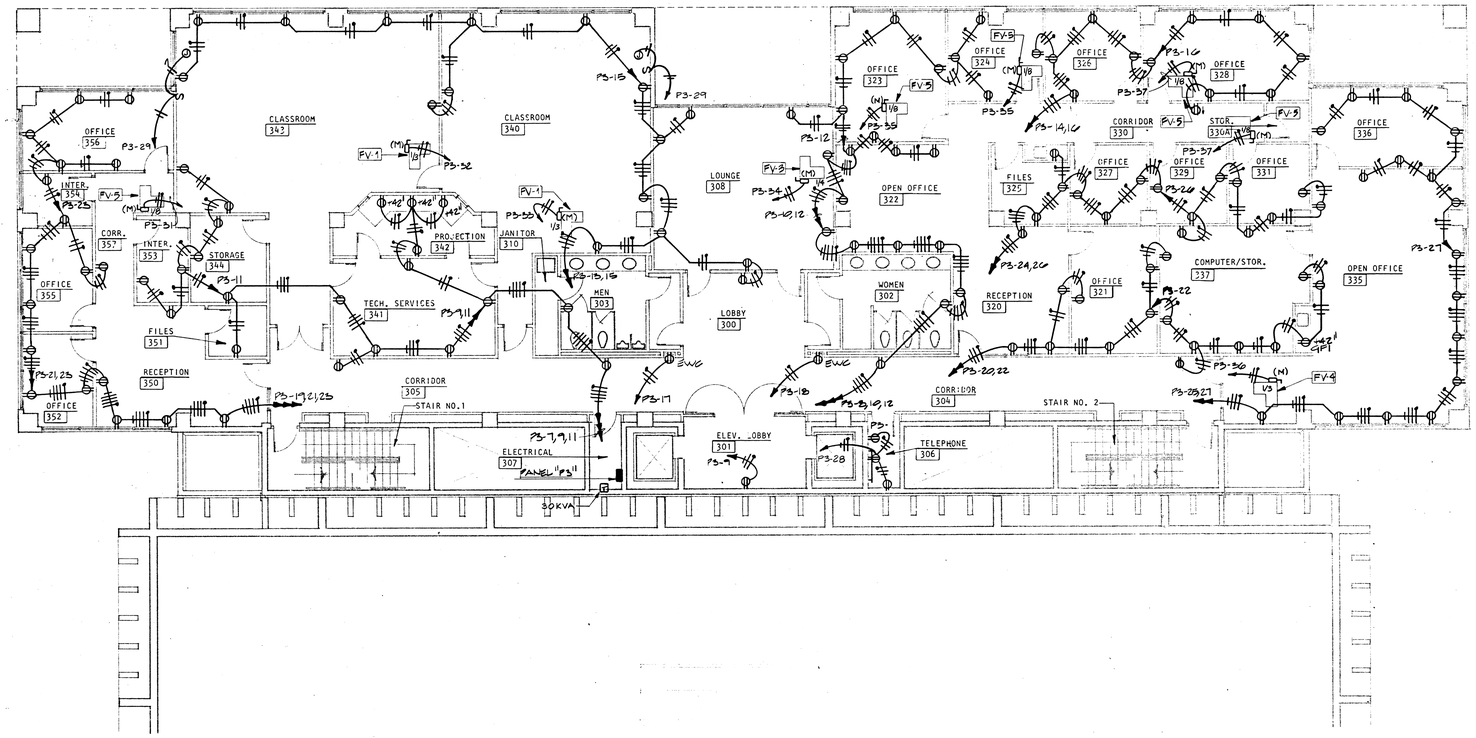
STATE OF NEW MEXICO — Ann L. Hutchinson No. 1857 — John L. Burton No. 820 — REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER — 1632 UHL & LOPEZ 1746 — STATE OF NEW MEXICO



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

THIRD FLOOR POWER PLAN

STATE OF NEW MEXICO
Ron L. Hutchinson
14,657
James L. Burton
No. 855
REGISTERED ARCHITECTS

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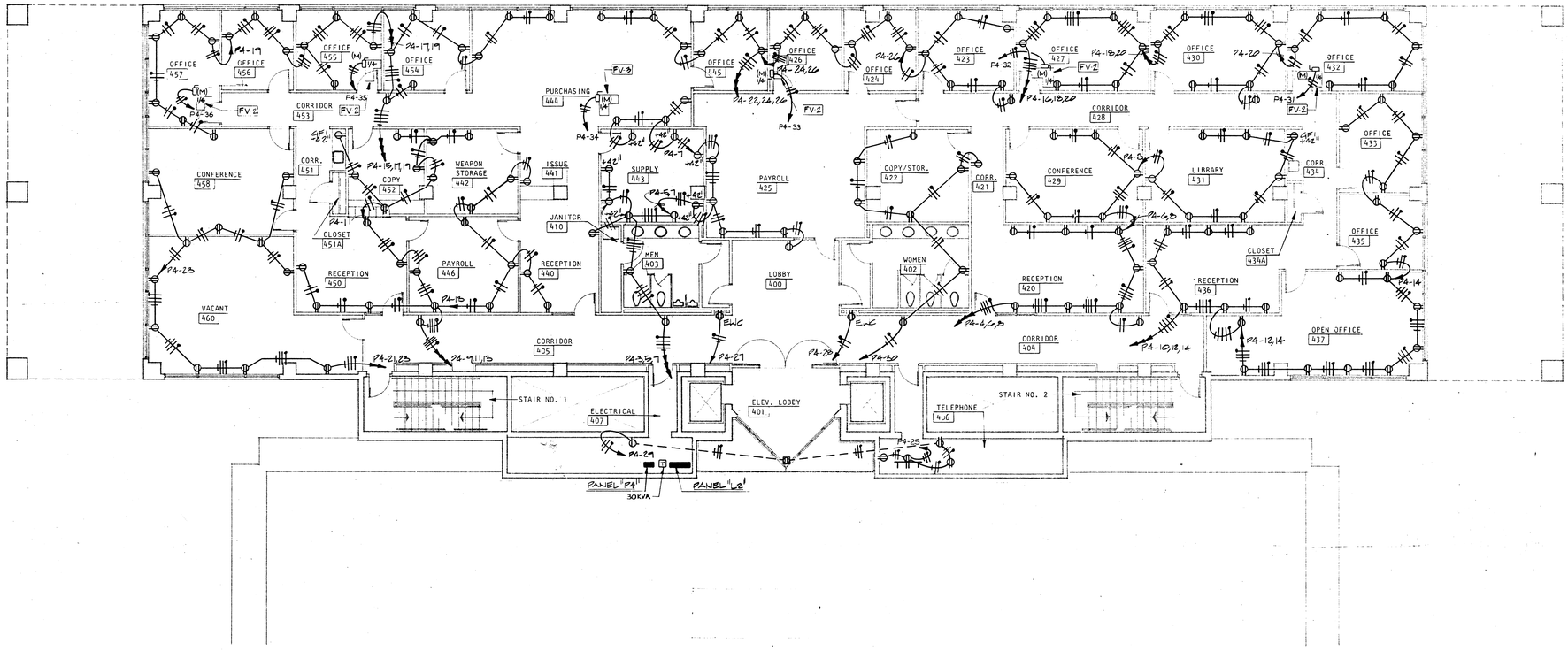

FOURTH FLOOR POWER PLAN

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

STATE OF NEW MEXICO
Ron L. Hutchinson 7663
Jerold J. Lopez 7746
John C. Burton No. 855
REGISTERED ARCHITECTS

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LOPEZ
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STATE OF NEW MEXICO

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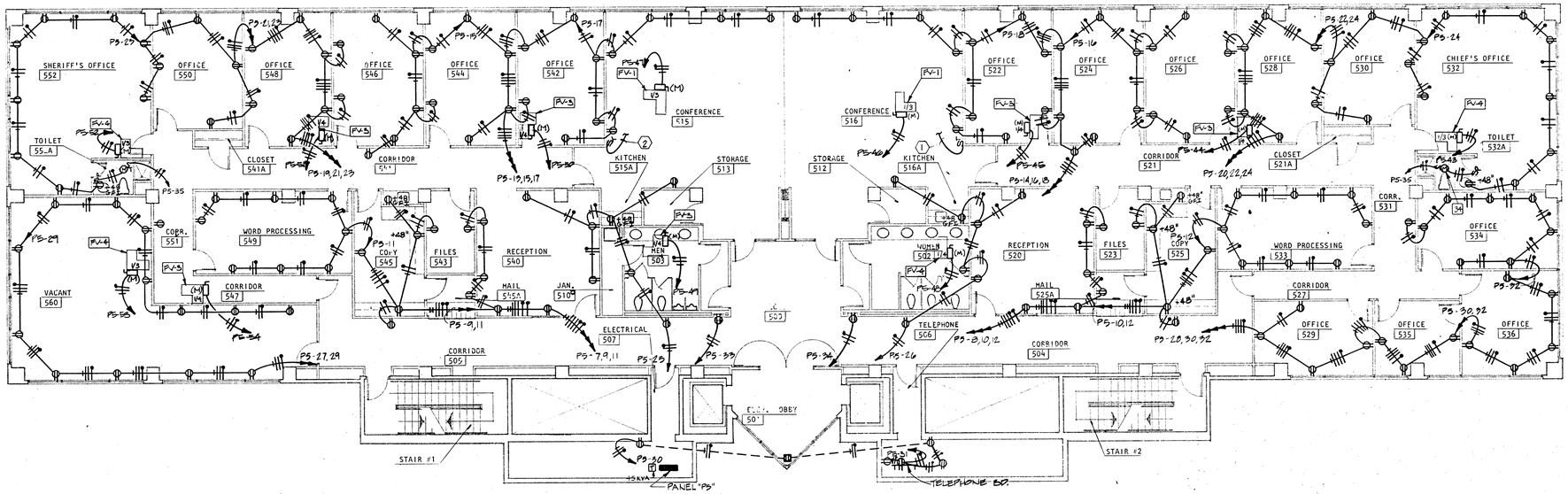
NOTES

1. THERMAL SWITCH SHALL CONTROL EXHAUST FAN [7]. SEE PENTHOUSE POWER PLAN.
2. THERMAL SWITCH SHALL CONTROL EXHAUST FAN [8]. SEE PENTHOUSE POWER PLAN.



FIFTH FLOOR POWER PLAN

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

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Drawing Title

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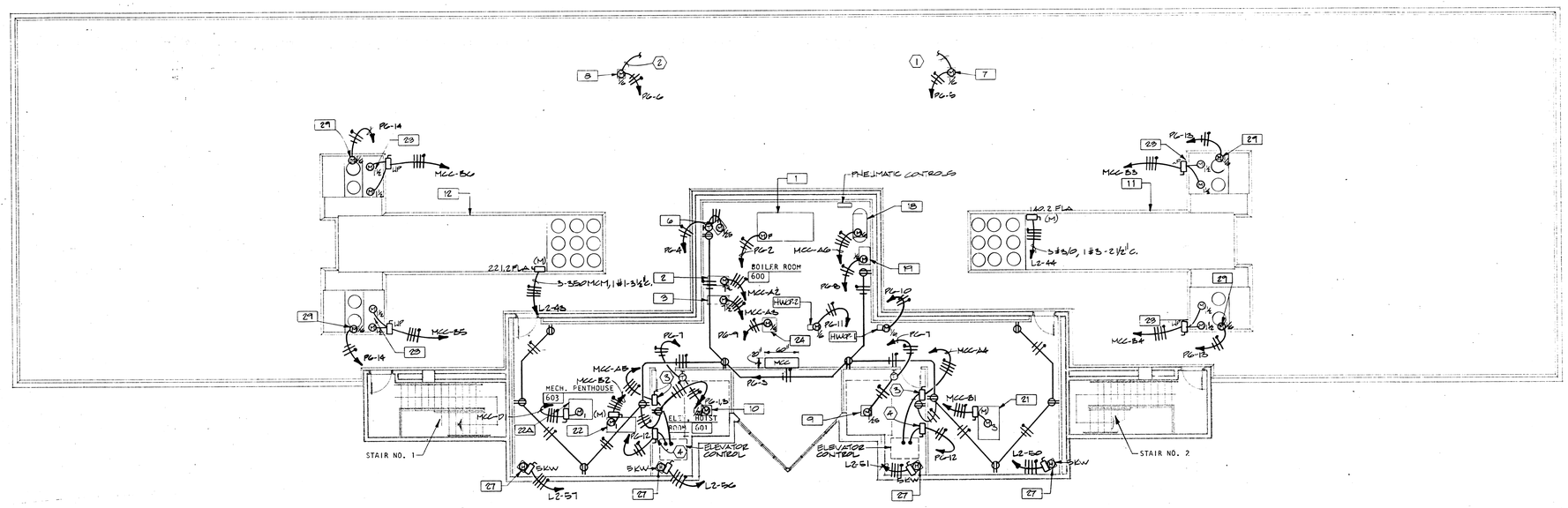
NOTES

1. EXTEND TO THERMAL SWITCH LOCATED IN CONFERENCE ROOM 516.
2. EXTEND TO THERMAL SWITCH LOCATED IN CONFERENCE ROOM 515.
3. PROVIDE AND INSTALL A 60A-600V-4PSN SAFETY SWITCH. FUSE 35A FOR ELEVATOR POWER.
4. PROVIDE AND INSTALL A 30A-125V-2PSN SAFETY SWITCH. FUSE 20A FOR ELEVATOR CONTROL.



PENTHOUSE & ROOF POWER PLAN

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

STATE OF NEW MEXICO
Sam L. Hutchinson
No. 1837
Jerold L. Brown
No. 2048
Alan K. Burton
No. 855
REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER
1632
W.H.L.
&
LOPEZ
1746
STATE OF NEW MEXICO

LAW ENFORCEMENT CENTER

400 Roma N.W. Albuquerque, New Mexico 87102

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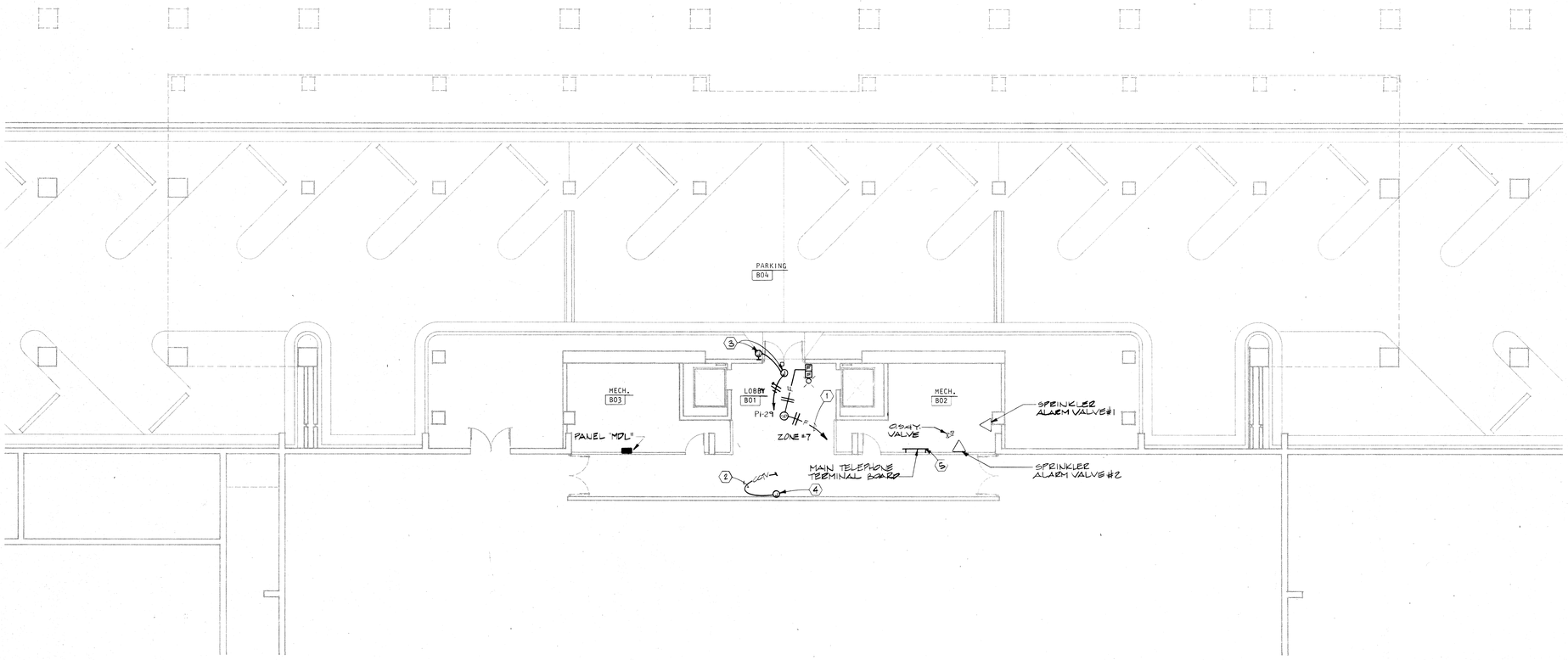
NOTES

1. CONNECT TO FIRE CONTROL CABINET ON FIRST FLOOR.
2. CONNECT TO CLOSED CIRCUIT TELEVISION MONITOR JUNCTION BOX ON FIRST FLOOR.
3. JUNCTION BOX FOR INSTALLATION OF CARD READER. CARD READER TO BE FURNISHED BY OTHERS.
4. JUNCTION ECX FOR CLOSED CIRCUIT TELEVISION CAMERA. CAMERA TO BE FURNISHED BY OTHERS.
5. CONNECT MAIN TELEPHONE TERMINAL BOARD TO CITY COMMUNICATION SYSTEM LOCATED IN CITY COUNTY BUILDING.



NORTH

BASEMENT FLOOR SPECIAL SYSTEMS PLAN

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

STATE OF NEW MEXICO
Ron L. Hutchinson
1832
Jerold L. Burton
No. 855
REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER
1832
U H L
A
LOPEZ
1746
STATE OF NEW MEXICO

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Albuquerque, New Mexico 87102

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(20) IF ALTERNATE IS ACCEPTED, CHROMALOX TYPE TW-36 SNOW MELTING SYSTEM SHALL BE INSTALLED UNDER SIDEWALK IN HATCHED AREA. AT OPTION OF CONTRACTO CONTRACTOR, HEATING CABLES MAY BE SUBSTITUTED. FINAL DESIGN TO BE APPROVED BY ENGINEER.

(21) IF ALTERNATE IS ACCEPTED, CHROMALOX TYPE TW-18 SNOW MELTING SYSTEM SHALL BE INSTALLED UNDER SIDEWALK IN HATCH AREA. SEE NOTE (20) FOR DESIGN OPTIONS.

(22) J-BOX FOR CONNECTION OF HEATING MATS OR HEAT CABLES. PROVIDE 50WATTS PER SQUARE FOOT AT 277V.

NOTES (CONT'D)

(11) JUNCTION BOX FOR CLOSED CIRCUIT TELEVISION CAMERA. CAMERA TO BE FURNISHED BY OWNER.

(12) JUNCTION BOX FOR INSTALLATION OF CARD READER. CARD READER TO BE FURNISHED BY OTHERS.

(13) SMOKE DETECTORS SHALL ACTIVATE DOOR CLOSURE SYSTEM.

(14) CCI SHALL BE RESPONSIBLE FOR CONNECTING ALL TELEPHONES TO TELEPHONE TERMINAL BOARD AND MAKING SYSTEM OPERATIONAL.

(15) PROVIDE AND INSTALL A 4'x8'x3/4" FIREFINISHED PLYWOOD BOARD. LEAVE 1' CLEAR SPACE ON EITHER SIDE OF BOARD.

(16) PROVIDE AND INSTALL 1-4" SLEEVE FOR TELEPHONE CONDUIT. TELEPHONE CONDUIT SHALL BE FOR CCI USE ONLY.

(17) PROVIDE AND INSTALL 3-4" SLEEVE BETWEEN FLOORS. SLEEVE SHALL BE FOR FOR USE BY FIRE ALARM, COMPUTER AND OTHER COMMUNICATIONS SYSTEMS.

(18) J-BOX FOR CONNECTION OF HEATING MATS OR HEATING CABLE. PROVIDE 45 WATTS PER SQUARE FOOT AT 277V.

(19) IF ALTERNATE IS ACCEPTED, TIMER FOR CHROMALOX SNOW MELTING SYSTEM SHALL BE MOUNTED 4'-6" ABOVE FINISHED FLOOR.

NOTES

(1) FLUSH FLOOR TELEPHONE BOX. COORDINATE EXACT LOCATION WITH FINAL FURNATURE LAYOUT.

(2) TELEPHONE BOX LOCATED IN SECURITY COUNTER. SEE ARCHITECTUAL FOR EXACT LOCATION.

(3) TELEPHONE OUTLETS LOCATED ON COUNTER FACE. SEE ARCHITECTUAL FOR EXACT LOCATION.

(4) SECURITY BUZZER AND MULTI LOCATION SIGNAL BOARD. BOARD TO BE LABELED, GUARD STATION, RECORDS AND RECEPTION. MOUNT UP 7'-6".

(5) BUTTON FOR ACTIVATION OF SECURITY BUZZER SYSTEM.

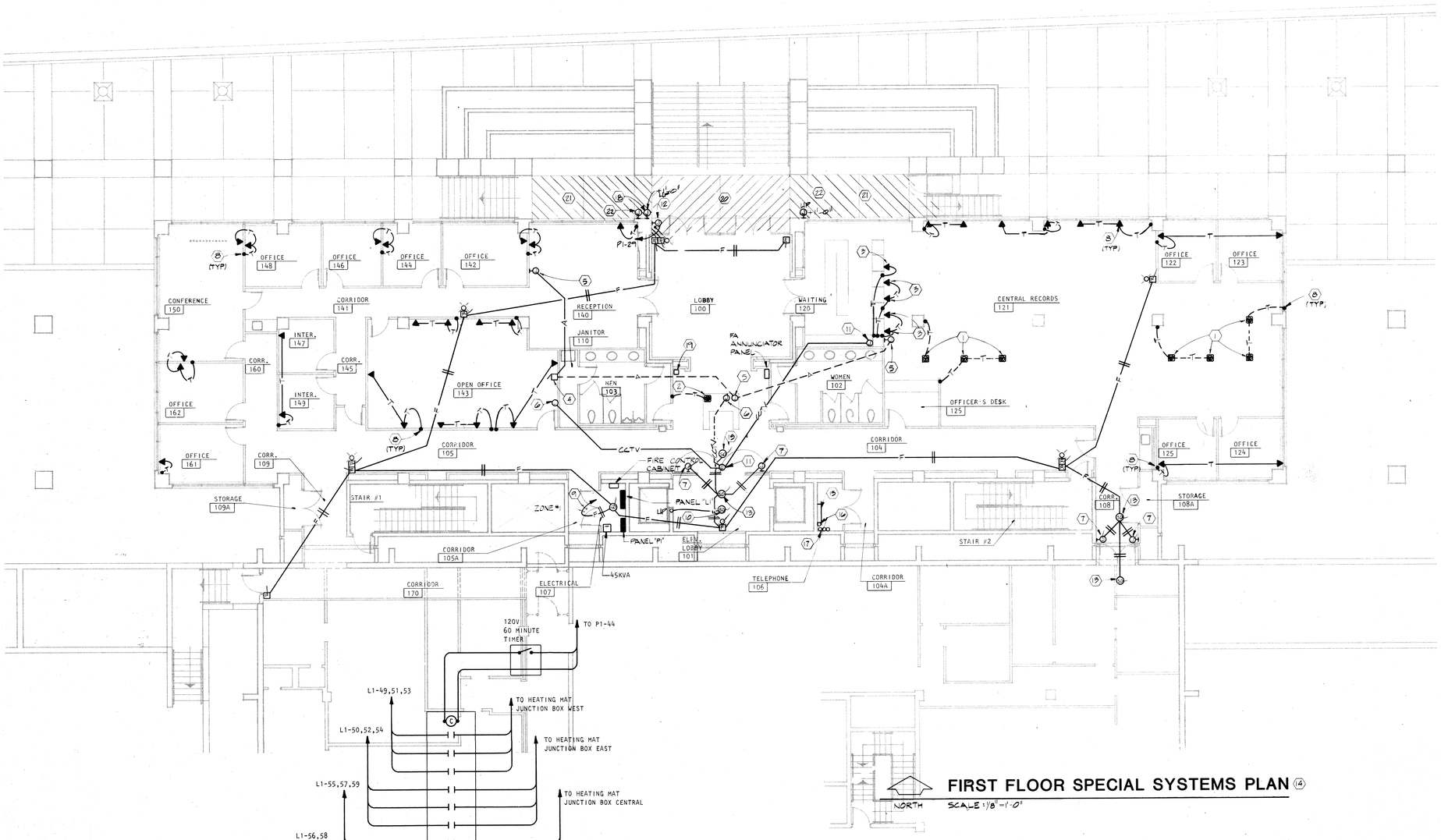
(6) LOCATION OF CLOSED CIRCUIT TELEVISION MONITOR JUNCTION BOX. SEE ARCHITECTUAL FOR EXACT LOCATION. MONITOR TO BE FURNISHED BY OWNER.

(7) JUNCTION BOX FOR MAGNETIC DOOR HOLDER. MOUNT AT 6'-0" A.F.F.

(8) TELEPHONE CONDUIT TO BE STUBBED INTO CEILING SPACE AND BUSHED. PROVIDE AND INSTALL SLEEVES FOR ALL FIREWALL PENETRATIONS.

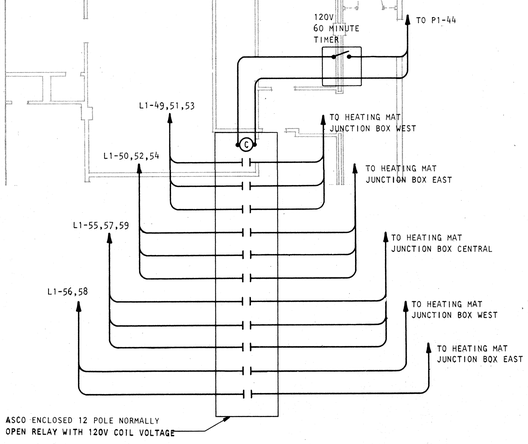
(9) CONNECT TO FIRE CONTROL CABINET.

(10) PROVIDE AND INSTALL PHOTOELECTRIC SMOKE DETECTOR. CONNECT TO ELEVATOR CONTROL IN PENTHOUSE.



FIRST FLOOR SPECIAL SYSTEMS PLAN (14)

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



SNOW-MELTING RELAY DIAGRAM

SCALE: NONE

REGISTERED PROFESSIONAL ENGINEER
1832
UHL & LOPEZ
1746
STATE OF NEW MEXICO

LAW ENFORCEMENT CENTER

400 Roma N.W.
Albuquerque, New Mexico 87102

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Date: 4/14/86
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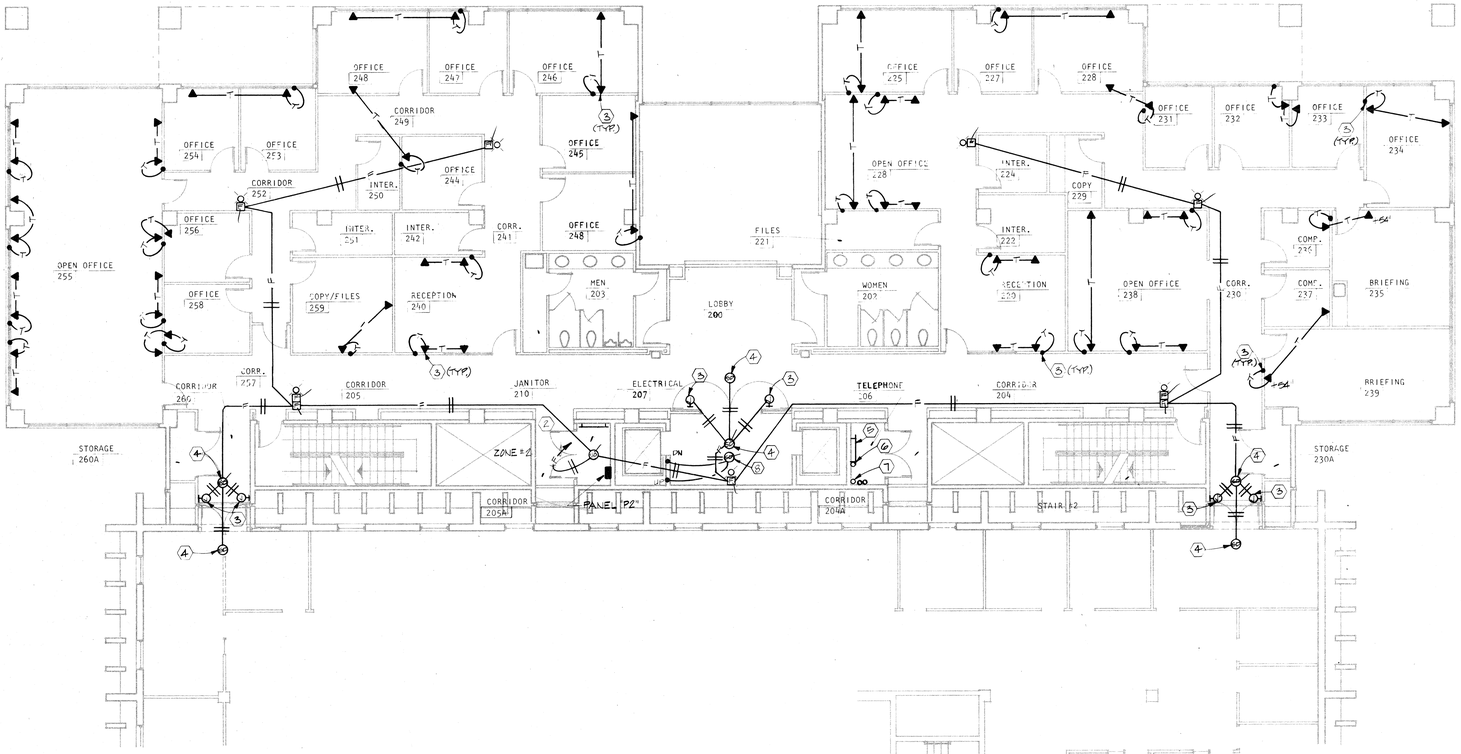
NOTES

1. JUNCTION BOX FOR MAGNETIC DOOR HOLDERS. MOUNT AT 6'-0" A.F.F.
2. SMOKE DETECTORS SHALL ACTIVATE DOOR CLOSURE SYSTEM.
3. TELEPHONE CONDUIT TO BE STUBBED INTO CEILING SPACE AND BUSHED. PROVIDE AND INSTALL SLEEVES FOR ALL FIREWALL PENETRATIONS.
4. CCI SHALL BE RESPONSIBLE FOR CONNECTING ALL TELEPHONES TO TELEPHONE TERMINAL BOARD AND MAKING SYSTEM OPERATIONAL.
5. PROVIDE AND INSTALL A 4'X8'X3/4" FIREFINISHED PLYWOOD BOARD, LEAVE 1' CLEAR SPACE ON EITHER SIDE OF BOARD.
6. PROVIDE AND INSTALL 1-4" SLEEVE FOR TELEPHONE CONDUIT. TELEPHONE CONDUIT SHALL BE FOR CCI USE ONLY.
7. PROVIDE AND INSTALL 3-4" BETWEEN FLOORS, SLEEVE SHALL BE FOR USE BY FIRE ALARM, COMPUTER AND OTHER COMMUNICATIONS SYSTEMS.
8. PROVIDE AND INSTALL SMOKE DETECTOR. CONNECT TO ELEVATOR CONTROL.
9. EXTEND TO FIRE CONTROL CABINET ON FIRST FLOOR.



SECOND FLOOR SPECIAL SYSTEMS PLAN (4)

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

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Albuquerque, New Mexico 87102

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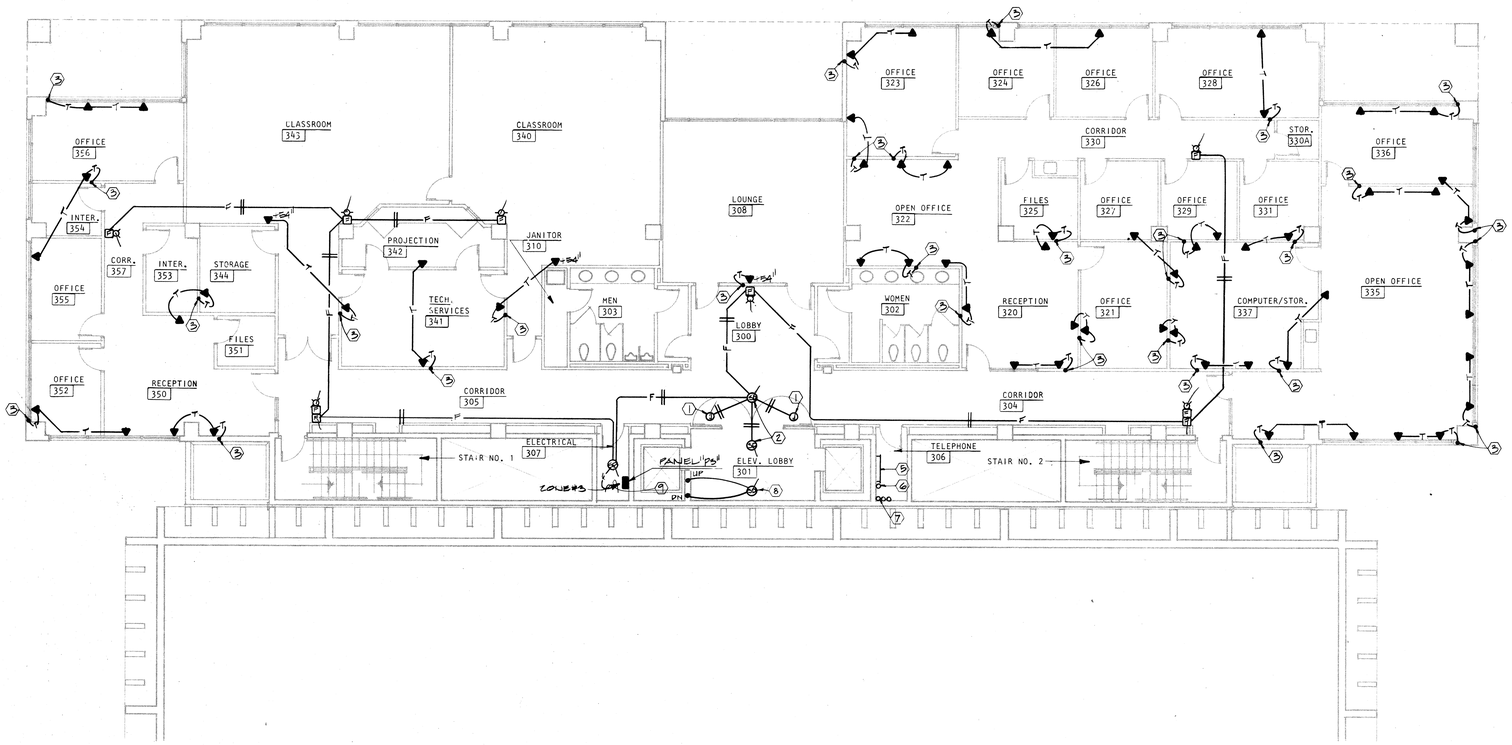
10 of 11

REGISTERED PROFESSIONAL ENGINEER
1632
UHL
&
LOPEZ
1745
STATE OF NEW MEXICO

NOTES

1. JUNCTION BOX FOR MAGNETIC DOOR HOLDERS. MOUNT AT 6'-0" A.F.F.
2. SMOKE DETECTORS SHALL ACTIVATE DOOR CLOSURE SYSTEM.
3. TELEPHONE CONDUIT TO BE STUBBED INTO CEILING SPACE AND BUSHED. PROVIDE AND INSTALL SLEEVES FOR ALL FIREWALL PENETRATIONS.
4. CCI SHALL BE RESPONSIBLE FOR CONNECTING ALL TELEPHONES TO TELEPHONE TERMINAL BOARD AND MAKING SYSTEM OPERATIONAL.
5. PROVIDE AND INSTALL A 4' X 8' X 3/4" FIRE FINISHED PLYWOOD BOARD. LEAVE 1' CLEAR SPACE ON EITHER SIDE OF BOARD.
6. PROVIDE AND INSTALL 1-4" SLEEVE FOR TELEPHONE CONDUIT. TELEPHONE CONDUIT SHALL BE FOR CCI USE ONLY.
7. PROVIDE AND INSTALL 3-4" SLEEVE BETWEEN FLOORS, SLEEVE SHALL BE FOR USE BY FIRE ALARM, COMPUTER AND OTHER COMMUNICATIONS SYSTEMS.
8. PROVIDE AND INSTALL SMOKE DETECTOR. CONNECT TO ELEVATOR CONTROL.
9. EXTEND TO FIRE CONTROL CABINET ON FIRST FLOOR.



NORTH

THIRD FLOOR SPECIAL SYSTEMS PLAN ④

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

STATE OF NEW MEXICO
Ron L. Hutchinson
Ltd. 857
James L. Burton
Ltd. 8125
REGISTERED ARCHITECT

LAW ENFORCEMENT CENTER

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REGISTERED PROFESSIONAL ENGINEER
1632
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&
LOPEZ
1746
STATE OF NEW MEXICO

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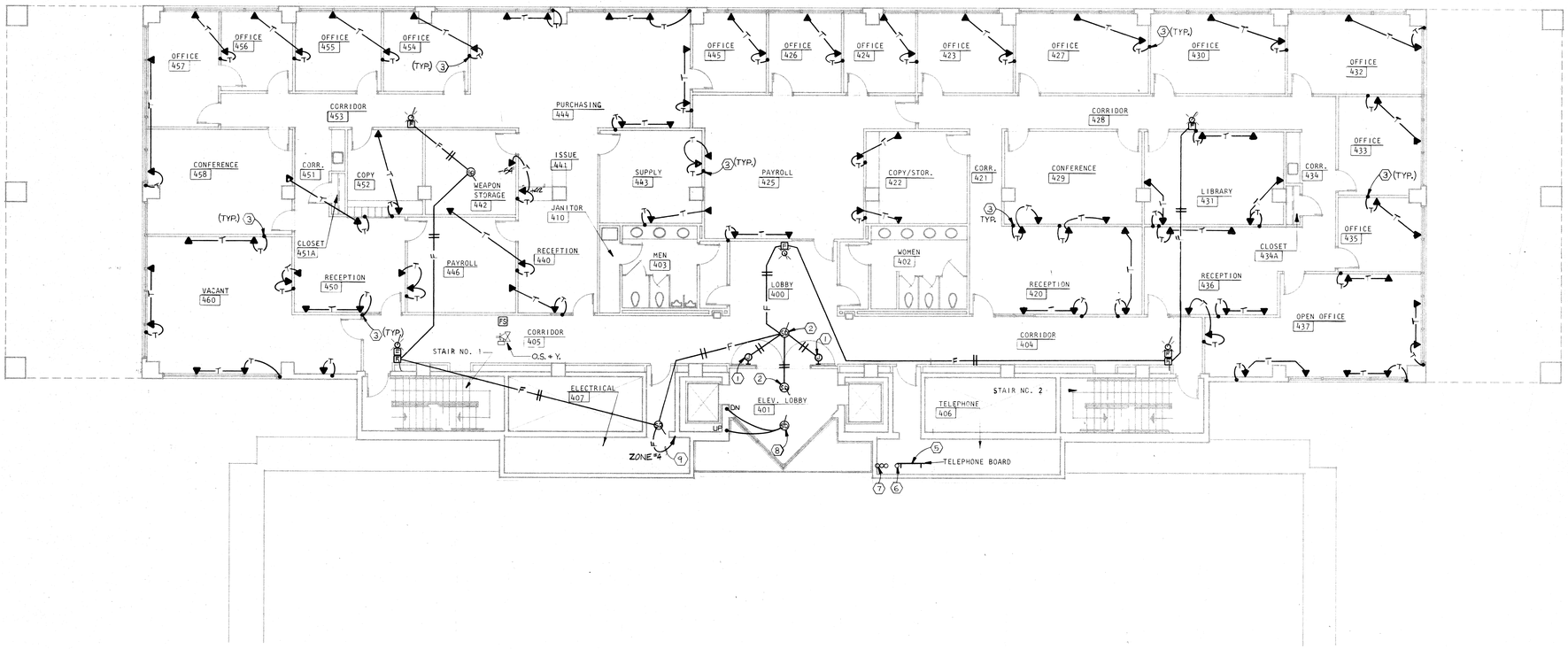
of
111

NOTES

1. JUNCTION BOX FOR MAGNETIC DOOR HOLDERS. MOUNT AT 6'-0" A.F.F.
2. SMOKE DETECTORS SHALL ACTIVATE DOOR CLOSURE SYSTEM.
3. TELEPHONE CONDUIT TO BE STUBBED INTO CEILING SPACE AND BUSHED. PROVIDE AND INSTALL SLEEVES FOR ALL FIREWALL PENETRATIONS.
4. CCI SHALL BE RESPONSIBLE FOR CONNECTING ALL TELEPHONES TO TELEPHONE TERMINAL BOARD AND MAKING SYSTEM OPERATIONAL.
5. PROVIDE AND INSTALL A 4' X 8' X 3/4" FIRE FINISHED PLYWOOD BOARD. LEAVE 1' CLEAR SPACE ON EITHER SIDE OF BOARD.
6. PROVIDE AND INSTALL 1-4" SLEEVE FOR TELEPHONE CONDUIT. TELEPHONE CONDUIT SHALL BE FOR CCI USE ONLY.
7. PROVIDE AND INSTALL 3-4" SLEEVE BETWEEN FLOORS. SLEEVE SHALL BE FOR USE BY FIRE ALARM, COMPUTER, AND OTHER COMMUNICATIONS SYSTEMS.
8. PROVIDE AND INSTALL SMOKE DETECTOR. CONNECT TO ELEVATOR CONTROL.
9. EXTEND TO FIRE CONTROL CABINET ON FIRST FLOOR.



FOURTH FLOOR SPECIAL SYSTEMS PLAN (4)

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

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LAW ENFORCEMENT CENTER

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Albuquerque, New Mexico 87102

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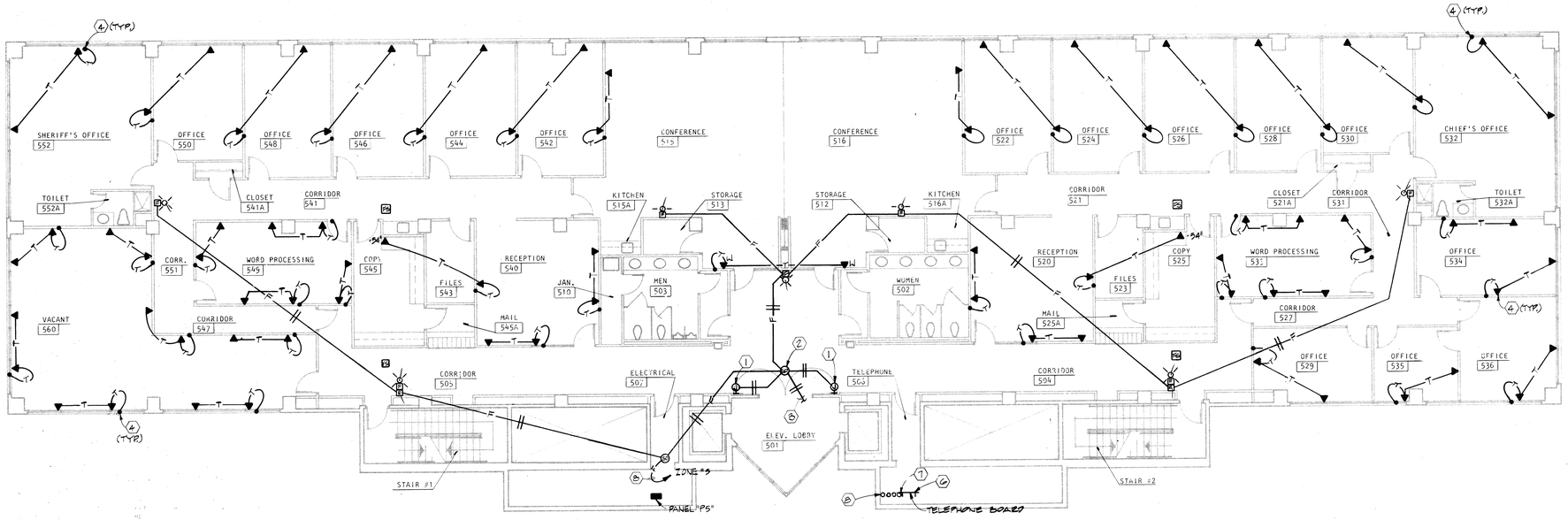
NOTES

1. JUNCTION BOX FOR MAGNETIC DOOR HOLDERS. MOUNT AT 6'-0"
2. SMOKE DETECTORS SHALL ACTIVATE DOOR CLOSURE SYSTEM.
3. EXTEND TO SMOKE DETECTOR FOR DOOR CLOSURE SYSTEM. SEE PENTHOUSE SPECIAL SYSTEMS PLAN.
4. TELEPHONE CONDUIT TO BE STUBBED INTO CEILING SPACE AND BUSHED. PROVIDE AND INSTALL SLEEVES FOR ALL FIREWALL PENETRATIONS.
5. CCI SHALL BE RESPONSIBLE FOR CONNECTING ALL TELEPHONES TO TELEPHONE TERMINAL BOARD AND MAKING SYSTEM OPERATIONAL.
6. PROVIDE AND INSTALL A 4'X8'X3/4" FIREFINISHED PLYWOOD BOARD. LEAVE 1' CLEAR SPACE ON EITHER SIDE OF BOARD.
7. PROVIDE AND INSTALL 1-4" SLEEVE FOR TELEPHONE CONDUIT. TELEPHONE CONDUIT SHALL BE FOR CCI USE ONLY.
8. PROVIDE AND INSTALL 3-4" SLEEVE BETWEEN FLOORS. SLEEVE SHALL BE FOR USE BY FIRE ALARM, COMPUTER AND OTHER COMMUNICATION SYSTEMS.



FIFTH FLOOR SPECIAL SYSTEMS PLAN (5)

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

REGISTERED PROFESSIONAL ENGINEER
1632
UHL
&
LOPEZ
1746
STATE OF NEW MEXICO

STATE OF NEW MEXICO
L. Wm. Brown
No. 857
Date
L. W. Burton
No. 855
REGISTERED ARCHITECTS

LAW ENFORCEMENT CENTER
400 Roma N.W.
Albuquerque, New Mexico 87102
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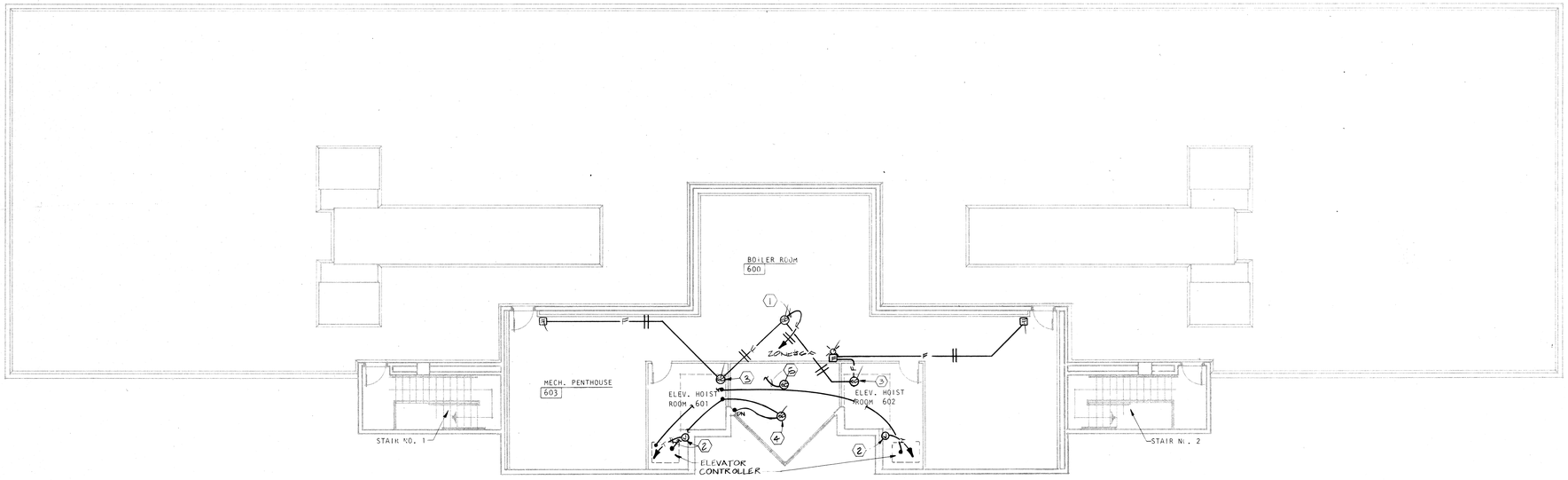
NOTES

1. EXTEND TO FIRE ALARM CONTROL CABINET ON FIRST FLOOR.
2. JUNCTION BOX FOR CONNECTION OF,ELEVATOR TELEPHONE. EXTEND TO TELEPHONE BOARD ON FIFTH FLOOR.
3. SMOKE AND HEAT DETECTOR.
4. SMOKE DETECTORS FOR ELEVATORS. EXTEND TO ELEVATOR CONTROLS.
5. EXTEND TO DOOR CLOSURE SYSTEM ON FIFTH FLOOR.



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

PENTHOUSE & ROOF SPECIAL SYSTEMS PLAN

STATE OF NEW MEXICO
Lee L. Hutchinson
No. 837
James C. Burton
No. 850
REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
1632
U H L
&
LOPEZ
1746

LAW ENFORCEMENT CENTER

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4/14/86
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JLJ
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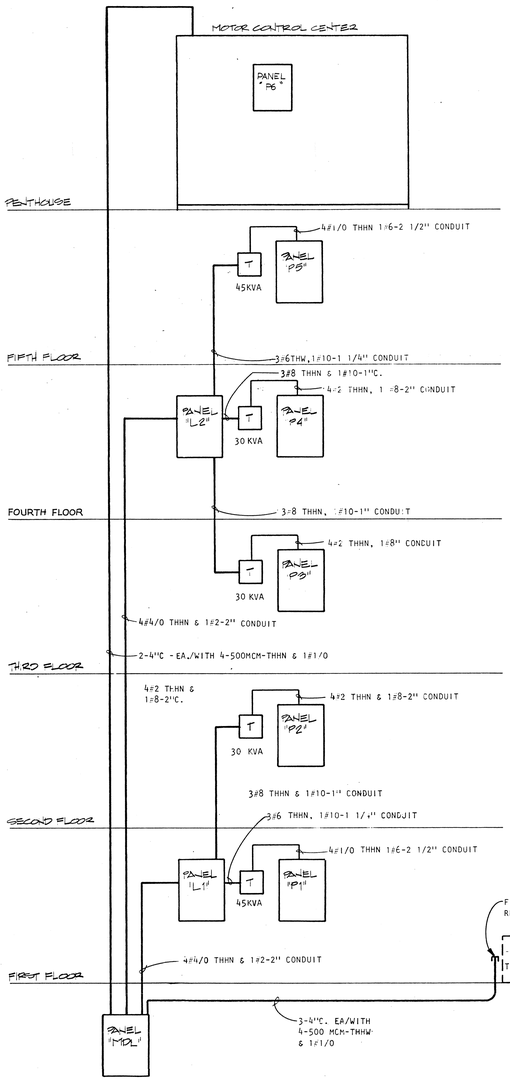
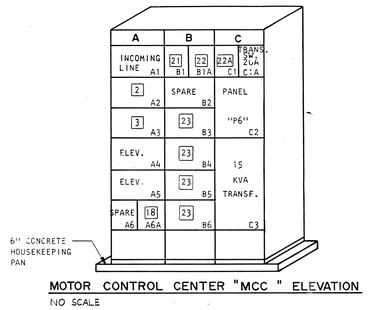
"MCC " MOTOR CONTROL CENTER SCHEDULE - 480V - 3Ø - 4W

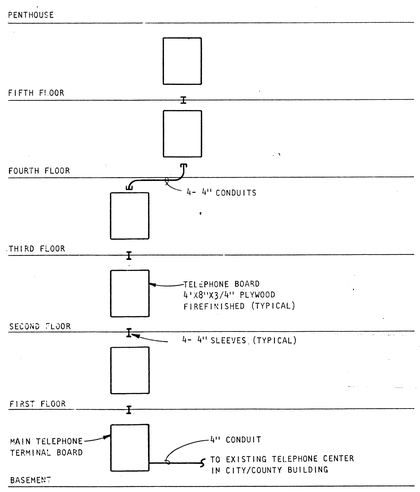
MECHANICAL EQUIP.	UNIT NO.	EQUIPMENT NAMEPLATE DESCRIPTION	H.P. OR KW	VOLTAGE	PHASE	FRAME SIZE	FUSE SIZE	POLES	MAGNETIC STARTER	NEMA SIZE	PUSHBUTTON OR SELECT SWITCH ON	PUSHBUTTON OR SELECT SWITCH HOA	INTER LOCK W/ "2"	RED PILOT	GREEN PILOT	AUX. CONTACT N.O.	NOTES
		SECTION "A"															
	A1	INCOMING LINE															
2	A2	END SUCTION PUMPS	7½	480	3	30	15	3	●	1		●	1	●			
3	A3	END SUCTION PUMPS	7½	480	3	30	15	3	●	1		●	1	●			
	A4	ELEVATOR	20	480	3	60	35	3	●	2		●		●			
	A5	ELEVATOR	20	480	3	60	35	3	●	2		●		●			
18	A6	SPARE CONTROL AIR COMPRESSOR	6	480	3	30	15	3			•	●		●			TWIN SW. ONLY
		SECTION "B"															
21 22	B1	UTILITY SET FAN UTILITY SET FAN	¾ 1	480	3	30 30	5.6 2	3 3			• •			• •			TWIN SW. ONLY
	B2	SPARE							●			●					
23	B3	EVAP. COOLER	3	480	3	30	5.6	3	●	1		●					
23	B4	EVAP. COOLER	3	480	3	30	5.6	3	●	1		●					
23	B5	EVAP. COOLER	3	480	3	30	5.6	3	●	1		●					
23	B6	EVAP. COOLER	3	480	3	30	5.6	3	●	1		●					
		SECTION "C"															
224	C1	UTILITY SET SWITCH	1	480	3	30 30	20	3			•			•			TWIN SW. ONLY
	C2	PANEL "P6"															
	C3	PANEL "P6"															
	C4	TRANSFORMER 15 KVA															
	C5	TRANSFORMER 15 KVA															
	C6	TRANSFORMER 15 KVA															



POWER RISER DIAGRAM
SCALE: NONE



MOTOR CONTROL CENTER "MCC " ELEVATION
NO SCALE



TELEPHONE RISER DIAGRAM
SCALE: NONE

PANEL SCHEDULE

PANEL "MDL" — 120/208V-3Ø-4W-1200A MAINS WITH MAIN LUGS ONLY, TOP FEED, SURFACE MOUNTED, SWITCHBOARD CONSTRUCTION, 10,000 A.I.C. MIN. BOLT-IN BREAKERS

1-400A-3P	BRANCH BREAKERS	CCT. 1 (PANEL "L1")
1-800A-3P	BRANCH BREAKERS	CCT. 2 (PANEL "L2")
1-200A-3P	BRANCH BREAKERS	CCT. 7 (M.C.C.)
2-100A-3P	SPACE	
1-225A-3P	SPACE	

PANEL "L1" — 277/480V-3Ø-4W, A WITH MAIN LUGS ONLY, SURFACE MOUNT, TOP FEED, GROUND BUS, 10,000 A.I.C. DOOR-IN-DOOR CONSTRUCTION.

1-600A-3P	BRANCH BREAKER	CCT. 43
1-350A-3P	BRANCH BREAKER	CCT. 44
1-60A-3P	BRANCH BREAKER	CCT. 38
2-40A-3P	BRANCH BREAKERS	CCTS. 8,20
4-15A-3P	BRANCH BREAKERS	CCTS. 50,15,56,57
28-20A-1P	BRANCH BREAKERS	CCTS. 1-7, 13-19,21,23 25-34,36,37
10-20A-1P	BRANCH BREAKERS	CCTS. 9,11,35,39,41, 62-66
19-20A-1P	SPACE ONLY	

PANEL "P1" — 120/208V-3Ø-4W, 225A MAINS, WITH 125A-3P MAIN BKR. SURFACE MOUNT, TOP FEED, GROUND BUS, 10,000 A.I.C. DOOR-IN-DOOR CONSTRUCTION.

2-30A-2P	BRANCH BREAKERS	CCTS. 25,26
1-30A-1P	BRANCH BREAKER	CCT. 32
39-20A-1P	BRANCH BREAKERS	CCTS. 1-24,29-31,33-44
8-20A-1P	BRANCH BREAKERS	CCTS. 45-51 (SPARE)
8-20A-1P	SPACE ONLY	

PANEL "P2" — 120/208V-3Ø-4W, 225A MAINS, WITH 90A-3P MAIN BKR. SURFACE MOUNT, TOP FEED, GROUND BUS, 10,000 A.I.C. DOOR-IN-DOOR CONSTRUCTION.

32-20A-1P	BRANCH BREAKERS	CCTS. 1,3-33
4-20A-1P	BRANCH BREAKERS	CCTS. 2,34-36 (SPARE)
6-20A-1P	SPACE ONLY	

PANEL "P3" — 120/208V-3Ø-4W, 225A MAINS WITH 90A-3P MAIN BKR. SURFACE MOUNT, TOP FEED, GROUND BUS, 10,000 A.I.C. DOOR-IN-DOOR CONSTRUCTION.

33-20A-1P	BRANCH BREAKERS	CCTS. 1-3,7-29,31-37
4-20A-1P	BRANCH BREAKERS	CCTS. 4-6, 30 (SPARE)
5-20A-1P	SPACE ONLY	

PANEL "P4" — 120/208V-3Ø-4W, 225A MAINS, WITH 90A-3P MAIN BKR. SURFACE MOUNT, TOP FEED, GROUND BUS, 10,000 A.I.C. DOOR-IN-DOOR CONSTRUCTION.

35-20A-1P	BRANCH BREAKERS	CCTS. 1,3-36
7-20A-1P	BRANCH BREAKERS	CCTS. 2,37-42 (SPARE)

PANEL "P5" — 120/208V-3Ø-4W, 225A MAINS, WITH 125A MAIN BKR. SURFACE MOUNT, TOP FEED, GROUND BUS, 10,000 A.I.C. DOOR-IN-DOOR CONSTRUCTION.

46-20A-1P	BRANCH BREAKERS	CCTS. 1-5,7-35,43-54
7-20A-1P	BRANCH BREAKERS	CCTS. 6,36-38,55-57 (SPARE)
7-20A-1P	SPACE ONLY	

PANEL "P6" — 120/208V-3Ø-4W, 100A MAINS, MOUNT IN MOTOR CONTROL CENTER, GROUND BUS, 10,000 A.I.C.

14-20A-1P	BRANCH BREAKERS	CCTS. 1-14
2-20A-1P	BRANCH BREAKERS	CCTS. 15,16
8-20A-1P	SPACE ONLY	

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Project Number 8506
Date 4/14/88
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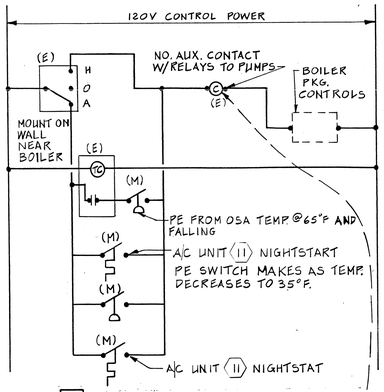
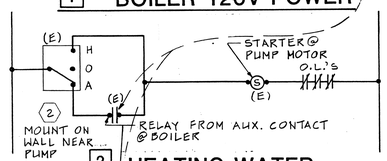
REGISTERED PROFESSIONAL ENGINEER 1632 UHL & LOPEZ 1746 STATE OF NEW MEXICO

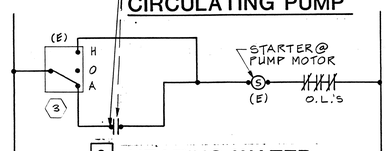
Drawing E 5.1
Sheet 109 of 111



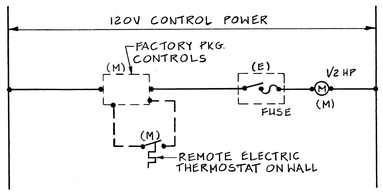
1 BOILER 120V POWER



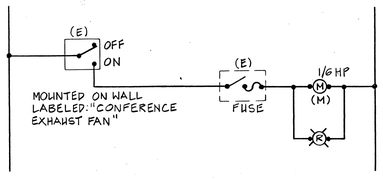
2 HEATING WATER CIRCULATING PUMP



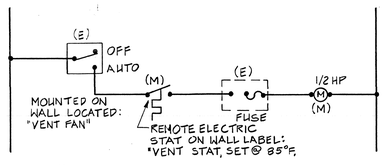
3 HEATING WATER CIRCULATING PUMP



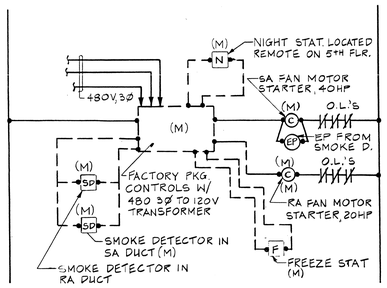
6 UNIT HEATER GAS FIRED



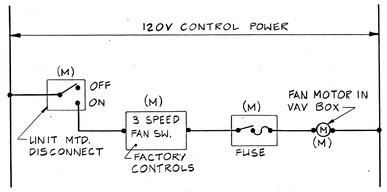
7 AND 8 EXHAUST FANS



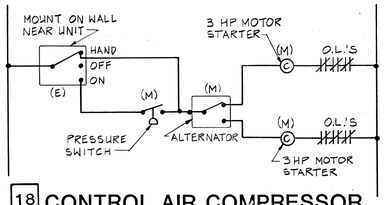
9 AND 10 EXHAUST FANS



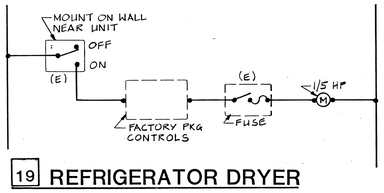
11 AND 12 ROOFTOP A/C UNIT



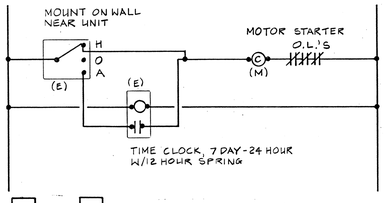
FV-1 THRU FV-5



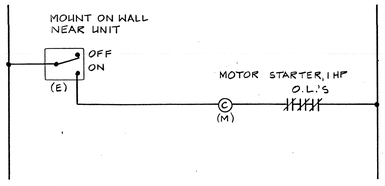
18 CONTROL AIR COMPRESSOR DUPLEX UNIT



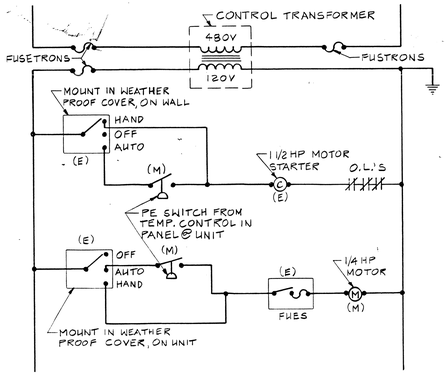
19 REFRIGERATOR DRYER



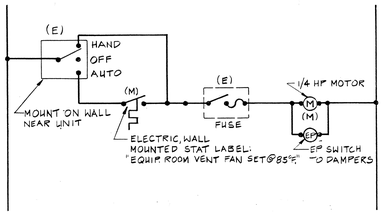
21 AND 22 UTILITY EXHAUST



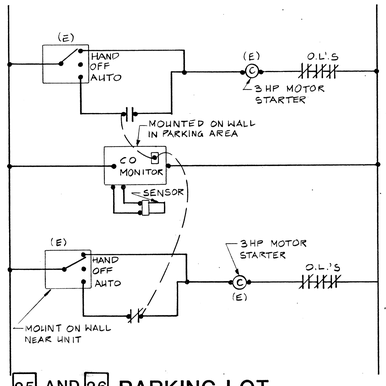
22A UTILITY EXHAUST



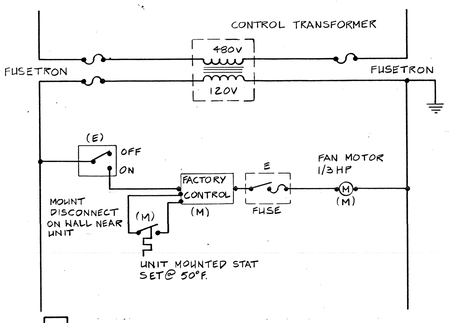
23 INDIRECT EVAP.COOLER



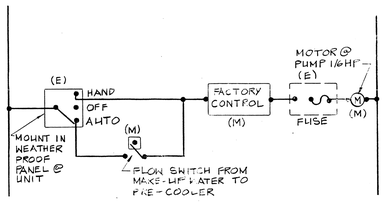
24 PENTHOUSE SUPPLY AIR



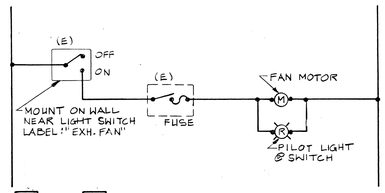
25 AND 26 PARKING LOT VENTILATION FANS



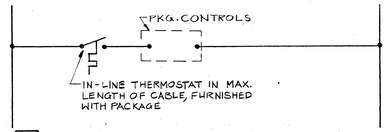
27 ELECTRIC UNIT HEATERS



28 AND 29 WATER TREATMENT SYSTEMS



34 AND 35 CEILING EXHAUST FAN



36 HEAT CABLE

LAW ENFORCEMENT CENTER
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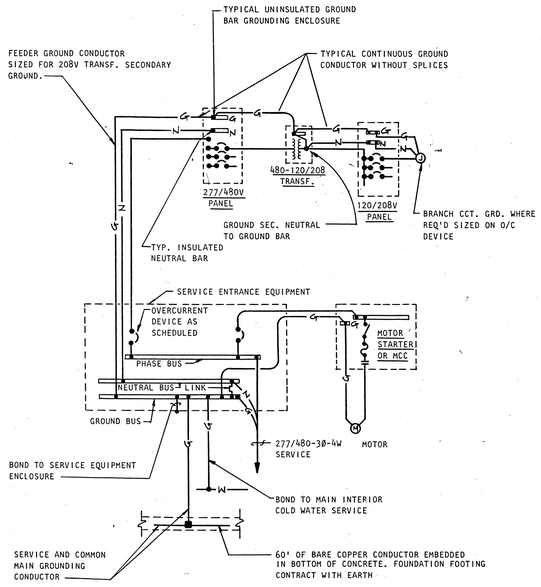
Project Number 8606
Date 4/14/86
Checked by
Drawing Title

Drawing E 5.2
Sheet 110 of 111

REGISTERED PROFESSIONAL ENGINEER 1632 UHL & LOPEZ 1745 STATE OF NEW MEXICO



TYPICAL GROUDING DETAIL
NO SCALE

LIGHT FIXTURE SCHEDULE

TYPE	LAMPS	MOUNTING	DESRIPTION
A	3-F40	RECESSED	GLOBE ULTRAPAR 9030 SERIES 2'X4' #ALP9233-4R-05-18-277V
B	4-F40	RECESSED	WILLIAMS MODULAR-I SERIES 2'X4' #5224-FKA-277V
C	3-F40	RECESSED	WILLIAMS MODULAR-I SERIES 52 2'X4' #5223-FKA-277V
D	4-F40	RECESSED	WILLIAMS MODULAR-. SERIES 52 2'X4' #5224-FKA-277V WITH SLP #NPSQ-245 LENS
E	3-F40	RECESSED	WILLIAMS MODULAR SERIES 52 2'X4' #5223-FKA-277V WITH SLP #NPSQ-245 LENS
F	1-150W FLOOD	RECESSED	PRESCOLITE 6" CONE #1220-972-120V
G	1-75W FLOOD	RECESSED	PRESCOLITE 5" CONE #1212-962-120V
H	1-100W	RECESSED	PRESCOLITE 8" SQUARE WITH PRISMATIC LENS #488HF-1-120V
J	2-F40	SURFACE	WILLIAMS SERIES 76 STRIP #7622-277V
K	2-F40	COVE	PRUDENTIAL STAGGER STRIP #PSS-162-HO-277V
L	2-F40	WALL	BENJAMIN AZTEC 4' #CZW-2224-4-277V
M	TRIDIUM	WALL	EVERGLO #710-1
N	TRIDIUM	END	EVERGLO #710-3
P	TRIDIUM	CEILING	EVERGLO #710-4
Q	1-F40	SURFACE	WILLIAMS SERIES SM75 STRIP #SM7520-L-277V
R	175W MH	RECESSED	PRESCOLITE 12" OPEN #1238M9-175MH-850
T	150W A-21	RECESSED	PRESCOLITE 6" A-LINE WALLWASH/ DOWNLIGHT #1234-117-277V
U	400W HPS	RECESSED	WIDELITE SPECTRA V 2'X2' #SR45400C-QVC-TR TOP ACCESS
W	1-50W-R20 SPOT	RECESSED	MARCO MX4 MINI-RECESSED-120V #R21
X	1-175W MH	WALL	VISA #C8813-DBZ-PC-277V
Y	35W HPS E17	WALL	KEENE MINI WALLCUBE #313-35HLX-277V
Z	1-100W	WALL	PORCELAIN LAMPHOLDER WITH WIREGUARD
AA	100W HPS	RECESSED	MOLDCAST MDL-5-09-10-27-277V
BB	175W MH	RECESSED	PRESCOLITE #1314M9-175MHFE-78-277V
CC	175 MH	WALL	HADCO POLYQUAD TYPE III #YD16-36411-277V
DD			

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	CEILING OUTLET, LETTER DENOTES FIXTURE TYPE
	WALL OUTLET
	EXIT LIGHT
	RECESSED INCANDESCENT FIXTURE
	EMERGENCY RECESSED INCANDESCENT FIXTURE
	FLUORESCENT FIXTURE
	EMERGENCY FLUORESCENT FIXTURE
	RECESSED LAY-IN FLUORESCENT FIXTURE
	EMERGENCY LAY-IN FLUORESCENT FIXTURE
Sa	WALL SWITCH, SPST. 4'-0" ABOVE FLOOR UNLESS NOTED. LETTER DENOTES CONTROL.
S3	THREE-WAY WALL SWITCH
S4	FOUR-WAY WALL SWITCH
Sp	WALL SWITCH AND PILOT LIGHT
ST	FRACTIONAL HP DISCONNECT WITH THERMAL OVERLOAD PROTECTION
SK	KEYED WALL SWITCH
SD	DIMMER SWITCH AS NOTED
	DUPLEX CONVENIENCE OUTLET, 18" ABOVE FLOOR TO BOTTOM UNLESS NOTED
	SPECIAL PURPOSE OUTLET AS NOTED OR SPECIFIED
	50A-2P-3W-250V RANGE RECEPTACLE AND CORD SET, 3/6-1" CONDUIT, 18" ABOVE FLOOR TO BOTTOM
	30A-3P-3W-250V DRYER OUTLET, 3/8-3/4" CONDUIT, 3'-0" ABOVE FLOOR
	FLUSH FLOOR BOX WITH 110V DUPLEX RECEPTACLE HUBBELL #B-2529 WITH S-3725 DULEX SCREW COVER
	MOTOR OUTLET AND SIZE IN HP
	THERMOSTAT, 4'-0" ABOVE FLOOR TO TOP
	CLOCK OUTLET AND CLOCK, 8'-0" ABOVE FLOOR UNLESS NOTED
	DOUBLE FACE CLOCK, SIZE AS NOTED, CEILING MOUNTED
TC	TIME CLOCK AS NOTED OR REQUIRED
J	JUNCTION BOX AS NOTED OR REQUIRED
R	CONTROL RELAY AS NOTED
	MOTOR CONTROLLER
	DISCONNECT SWITCH
	LIGHTING PANELBOARD, 120/208V-3Ø-4W
	POWER OR DISTRIBUTION PANELBOARD, 277/480V-3Ø-4W
FACP	FIRE ALARM CONTROL CABINET
	3/4" PLYWOOD TELEPHONE TERMINAL BOARD, SIZE AS NOTED
MC	MASTER CLOCK
	RACEWAY, CONCEALED IN WALL OR CEILING
	RACEWAY, CONCEALED IN WALL OR FLOOR
—T—	TELEPHONE RACEWAY
—E—	EMERGENCY CIRCUIT
	HOMERUN TO PANEL BOARD
—T—	TELEPHONE HOMERUN TO TERMINAL CABINET, 1" CONDUIT UNLESS NOTED
	NEUTRAL, HOT, SWITCH, AND GROUND CONDUCTORS, RESEPCTIVELY
	CONDUIT SEAL-OFF FITTINGS
	CONDUIT STUB-UP
	GROUND CONNECTION
	SURFACE MOUNTED METAL PLUG-IN RACEWAY
	TELEPHONE OUTLET, WALL, 18" ABOVE FLOOR TO BOTTOM UNLESS NOTED
W	FLUSH WALL MOUNT TELEPHONE OUTLET, UP 48" TO TOP
	FLOOR BOX WITH TELEPONE FITTING, HUBBELL #B-2527 WITH S-2525
	BUZZER, 7'-6" ABOVE FLOOR
	BELL, 7'-6" ABOVE FLOOR
	PUSHBUTTON STATION, 4'-0" ABOVE FLOOR TO TOP
	FIRE ALARM AUDIO/VISUAL 7'-6" ABOVE FLOOR
	FIRE ALARM STATION, 4'-0" ABOVE FLOOR TO TOP
	FIRE ALARM VISUAL ONLY, 7'-6" ABOVE FLOOR
	AUTOMATIC FIRE DETECTOR ON CEILING
	DRY TYPE TRANSFORMER
WP	WEATHERPROOF
	MECHANICAL EQUIPMENT REFERANCE
1	NOTE REFERANCE
(M)	FURNISHED BY MECHANICAL

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E5.3