

A L B U Q U E R Q U E I N T E R N A T I O N A L A I R P O R T



109 · E D I T H · S E
ALBUQUERQUE · NM · 87102
505 · 842 · 6370

INDEX OF DRAWINGS

S1.1- FOUNDATION PLAN
S2.1- ROOF FRAMING PLAN
S3.1- FOUNDATION DETAILS
S3.2- FOUNDATION DETAILS
S4.1- ROOF FRAMING DETAILS
S4.2- ROOF FRAMING DETAILS
S5.1- STRUCTURAL NOTES

- A2.1- FLOOR PLAN
- A3.1- SCHEDULES & DETAILS
- A3.2- INTERIOR DOOR DETAILS
- A3.3- CURTAIN WALL DETAILS
- A4.1- ELEVATIONS
- A4.2- BUILDING SECTIONS
- A4.3- WALL SECTIONS
- A4.4- WALL SECTIONS
- A5.1- ROOF PLAN
- A6.1- REFLECTED CEILING PLAN
- A8.1- ENLARGED PLAN & ELEVATIONS
- A8.2- INTERIOR ELEVATIONS
- A8.3- CABINET DETAILS

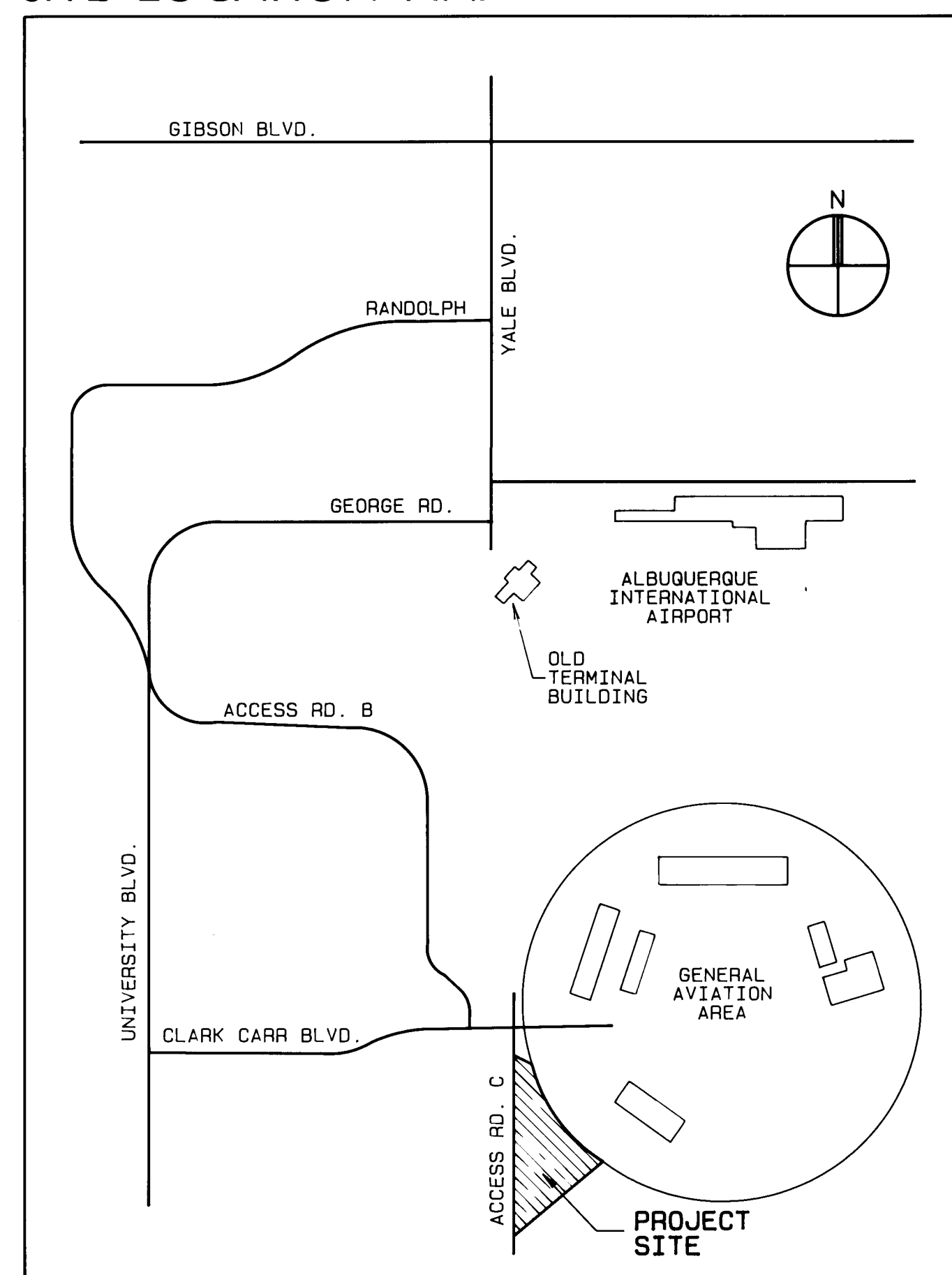
M1.1- MECHANICAL SITE PLAN
M2.1- BELOW FLOOR HVAC PARTIAL PLAN
M2.2- HVAC PLAN
M2.3- PIPING PLAN
M3.1- DETAILS & SCHEMATICS
M3.2- SCHEDULES & SEQUENCE OF CONTROL
M4.1- DETAILS

- E1.1- UTILITY SITE PLAN
- E2.1- LIGHTING PLAN
- E2.2- POWER PLAN
- E2.3- SPECIAL SYSTEMS PLAN
- E3.1- LIGHTNING PROTECTION PLAN
- E4.1- DETAILS
- E5.1- POWER RISER DIAGRAM
- E6.1- SCHEDULES

ARCHITECT PROJECT # 86007

CITY OF ALBUQUERQUE
PROJECT # 3132

SITE LOCATION MAP



APPROVALS

R. L. Pratte 4/23/87
LOWELL PRATTE-AVIATION DIRECTOR, DATE
ALBUQUERQUE INTERNATIONAL AIRPORT

Walt Nickerson FOR
WALT NICKERSON 5/28/87
CITY ENGINEER DATE

CODE INFORMATION

BUILDING AREA: 10,847 SF
OCCUPANCY TYPE: B-2
CONSTRUCTION TYPE: II-N

CONSULTANTS

**CIVIL/STRUCTURAL
CHAVEZ GRIEVES
CONSULTING ENGINEERS**
4600 MONTGOMERY NE
BUILDING C, SUITE 101
ALBUQUERQUE, NM 87109
(505) 881-7376

**MECHANICAL/ELECTRICAL
COUPLAND POWELL MORAN
& ASSOCIATES**
214 COAL AVE. S.W.
ALBUQUERQUE, NM 87102
(505) 247-0500

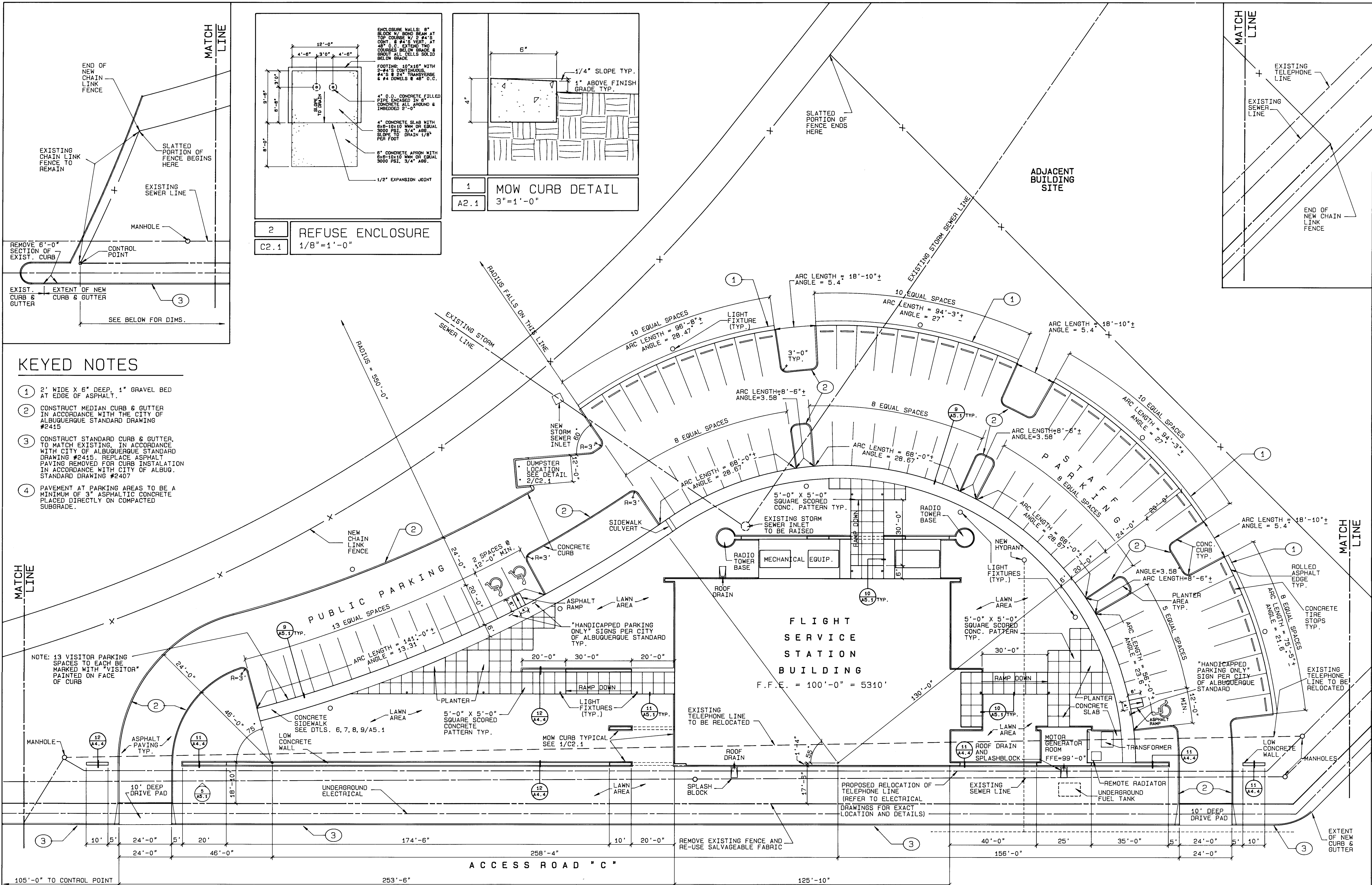
**LANDSCAPE
CAMPBELL OKUMA PERKINS
ASSOCIATES INC.**
418 CENTRAL AVE. SE
ALBUQUERQUE, NM 87102
(505) 242-9928

ESTIMATING
APS ESTIMATING, INC.
1420 CARLISLE NE., SUITE 202A
ALBUQUERQUE, NM 87110
(505) 262-2681

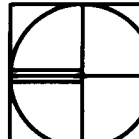
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2	6	3	1	3	2	0	0	8	9		

Russell B. Linder
1-4-88

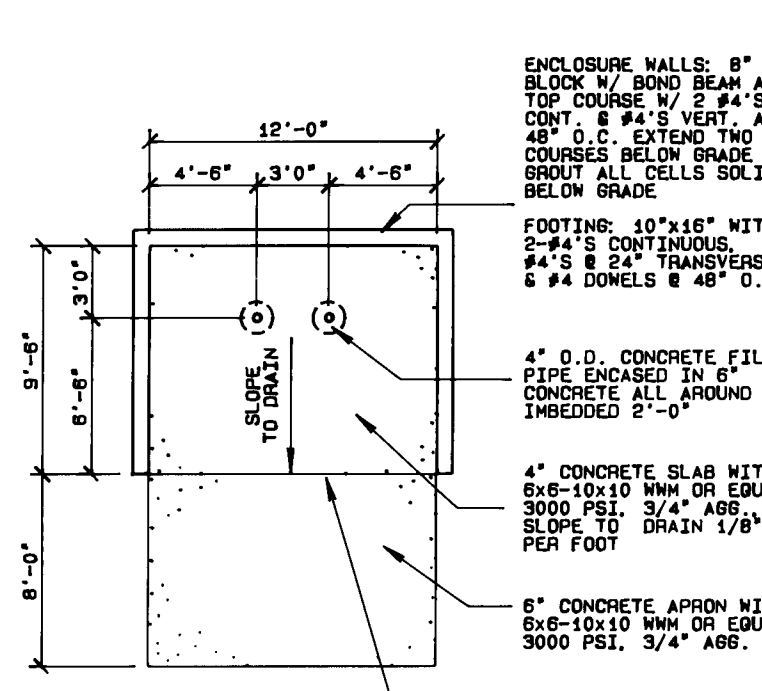
REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
APPROVAL OF REVISIONS							



- KEYED NOTES**
- 1 2' WIDE X 6" DEEP, 1" GRAVEL BED AT EDGE OF ASPHALT.
 - 2 CONSTRUCT MEDIAN CURB & GUTTER IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD DRAWING #2415
 - 3 CONSTRUCT STANDARD CURB & GUTTER, TO MATCH EXISTING, IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING #2415. REPLACE ASPHALT PAVING REMOVED FOR CURB INSTALLATION IN ACCORDANCE WITH CITY OF ALBUQ. STANDARD DRAWING #2407
 - 4 PAVEMENT AT PARKING AREAS TO BE A MINIMUM OF 3" ASPHALTIC CONCRETE PLACED DIRECTLY ON COMPACTED SUBGRADE.

**SITE PLAN**
1"=20'-0"

PARKING TALLY
PUBLIC: 15 SPACES
STAFF: 68 SPACES
TOTAL: 83 SPACES



2 REFUSE ENCLOSURE
C2.1 1/8"=1'-0"

ENCLOSURE WALLS: 8" BLOCK W/ BOND BEAM AT TOP COURSE. 1/2" #4'S CONTINUOUSLY. 2" #4'S VERT. @ 48" O.C. EXTEND TWO COURSES BELOW GRADE & BRUIT ALL CELLS SOLID BELOW GRADE.

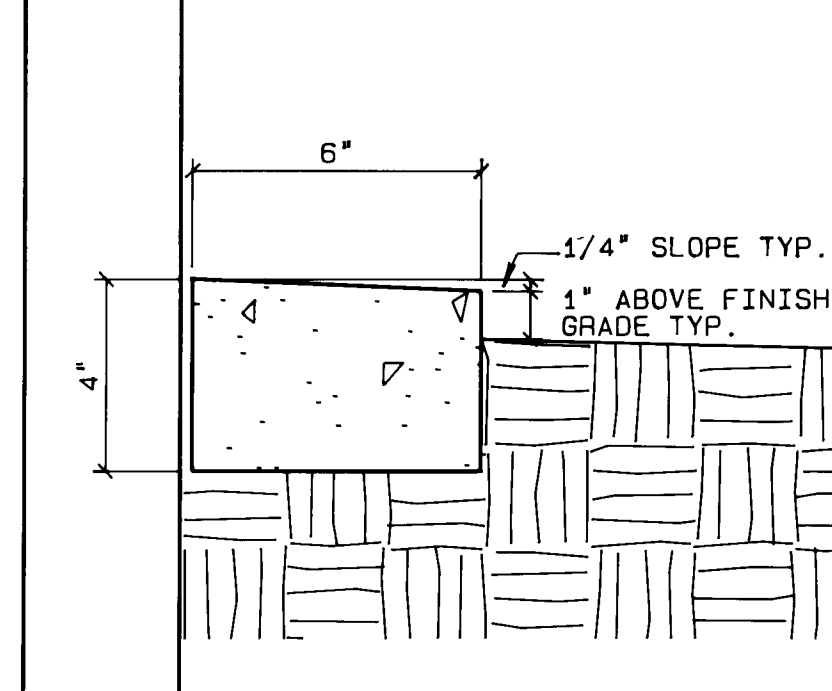
FOOTING: 10"x16" WITH 2" #4'S CONTINUOUSLY. 2" #4'S VERT. @ 48" O.C. TRANSVERSE #4'S @ 48" O.C.

4" O.D. CONCRETE FILLED PIPE ENCASED IN 6" CONCRETE ALL AROUND & IMBEDDED 2'-0".

4" CONCRETE SLAB WITH 3000 PSI. 3/4" AGG. SLOPE TO DRAIN 1/8" PER FOOT

6" CONCRETE APRON WITH 3000 PSI. 3/4" AGG.

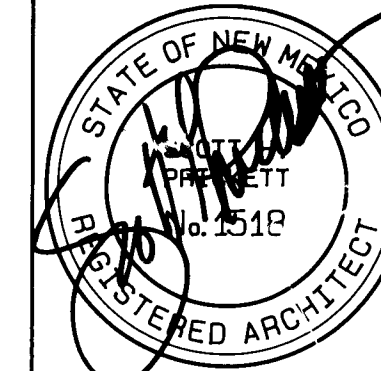
1/2" EXPANSION JOINT



1 MOW CURB DETAIL
A2.1 3"=1'-0"

1/4" SLOPE TYP.

1" ABOVE FINISH GRADE TYP.



ADDY & PRICKETT
ARCHITECTURE
PLANNING
INTERIOR DESIGN

109 EDITH SE
ALBUQUERQUE NM 87102
505-842-6370

FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED *Pen Paula 5/21/87* DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
SITE PLAN

SHEET
C2.1
SHEET 1 OF 41

NOTICE TO CONTRACTOR

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- 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, I.E., WINDROWS, SILT FENCING, OR APPROVED EQUAL.
- CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- WHEN CONSTRUCTION UNDER THIS PROJECT CONNECTS TO EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE AN EASY RIDING CONNECTION.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

KEYED NOTES:

- RAISE TOP OF GRATE OF EXISTING STORM DRAIN INLET. SEE GENERAL NOTE NUMBER 1. THIS SHEET.
- CONSTRUCT SINGLE TYPE "D" STORM DRAIN INLET IN ACCORDANCE WITH CITY STANDARD DRAWING 2206. SEE GENERAL NOTE NUMBER 1. THIS SHEET.
- CONSTRUCT 12" SIDEWALK CULVERT IN ACCORDANCE WITH CITY STD. DWG. 2236.
- 26 EACH 6" CURB CUTS @ 10'-0" O.C. TO BE CONSTRUCTED AT VARIOUS LOCATIONS OF NEW CURB AND GUTTER (TYP).
- 3/4" GRAVEL 2" WIDE X 6" DEEP AT EDGE OF ASPHALT.
- STANDARD CURB AND GUTTER MATCH EXISTING.

LEGAL DESCRIPTION:

A PORTION OF TRACT "G" MUNICIPAL ADDITION # 9 LOCATED IN THE SW 1/4 OF SECTION 3 - T 9 N, R 3 E, NMPM.

BENCH MARK DATA:

THE STATION IS A STANDARD C.O.A. BRASS CAP SET IN A CONCRETE MONUMENT STAMPED "1-N16" LOCATED 1050' NE OF RUNWAY # 2103 AND 1525' EAST OF SW END OF RUNWAY # 2103, OR APPROX. 1900' SW OF PROPOSED SITE CHAIN LINK FENCE INTERSECTION. ELEVATION = 5309.19.

TBM (SAME AS BM)

SURVEY DATA:

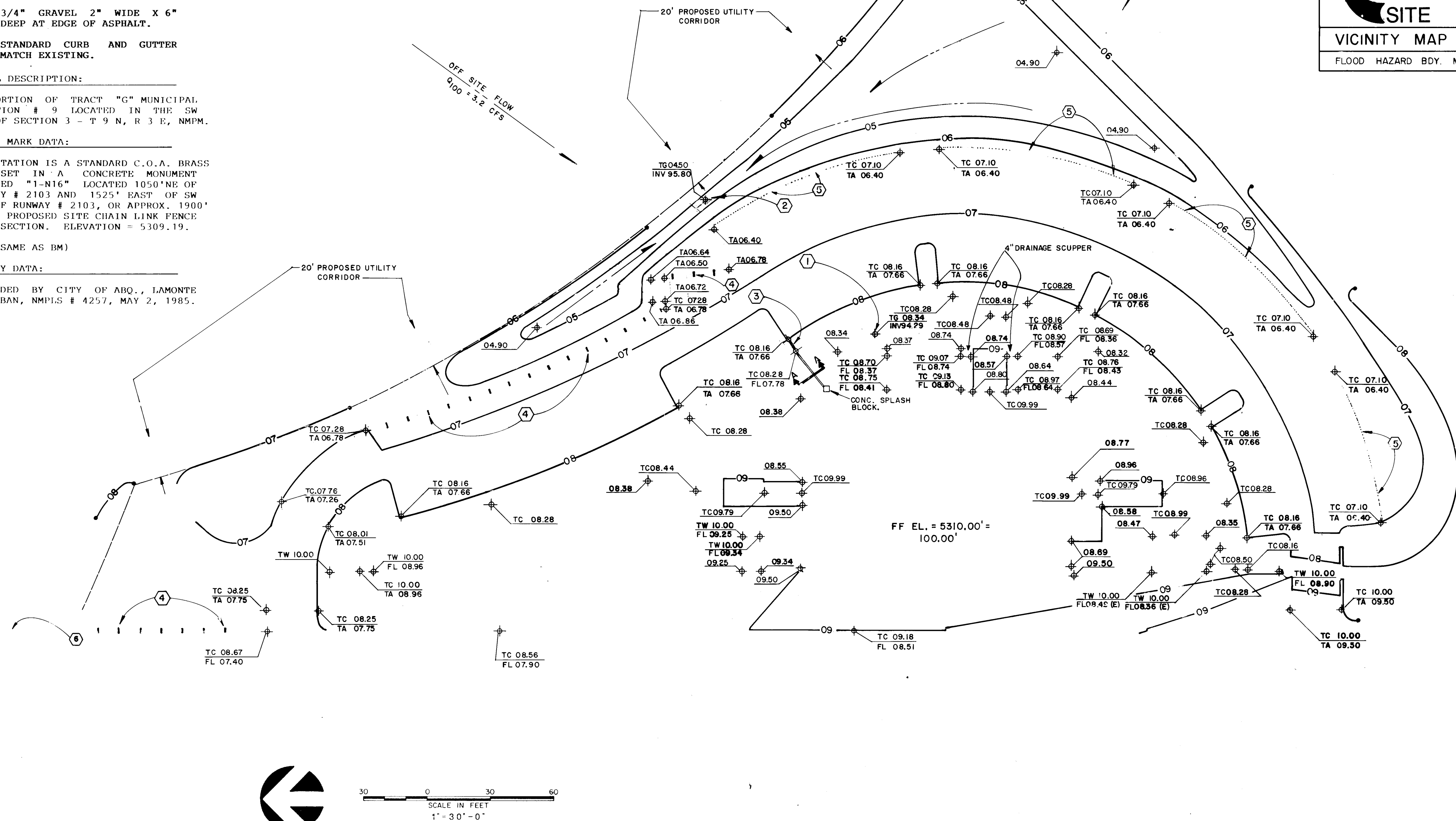
PROVIDED BY CITY OF ABO., LAMONTE J. URBAN, NMPMS # 4257, MAY 2, 1985.

LEGEND:

CONTOUR (NEW) — 06 —
CONTOUR (EXIST) — — — — —
SPOT ELEVATION (NEW) — — — — —
SPOT ELEVATION (EXIST) — — — — —

GENERAL NOTES

- ALL CONSTRUCTION ON EXISTING STORM SEWER LINE TO BE CONSTRUCTED PER SHEET C2.3
- ADJUST ALL NEW AND EXISTING MANHOLES TO FINISH GRADE.



DRAINAGE PLAN

LOCATION AND DESCRIPTION:

The site is located off of Access Road "C" at the west end of the Albuquerque International Airport, in Albuquerque, New Mexico. The site, containing approximately 2.54 acres, is presently undeveloped and slopes from the perimeter to the center with an average slope of 1 percent. This site is not located within a flood zone.

EXISTING CONDITIONS:

Presently, on-site runoff is directed to the center of the site where an existing combination catchbasin/manhole is located. The runoff after entering the catchbasin/manhole is conveyed to the AMAPCA South Diversion Channel through a series of conduits. Due to existing on-site elevations and off-site conditions, off-site runoff from property located to the East enters the site. This off-site runoff is directed to the catchbasin/manhole through an existing earthen swale.

PROPOSED CONDITIONS:

Proposed development of the site includes a building with related parking, a holding pond and landscaping. Due to proposed development, flows from the site will increase from 5.84 CFS to 7.86 CFS. The flows, due to present downstream conditions, will be routed to a holding pond and discharge into a new storm inlet which will be incorporated into the Existing Storm Drainage System. This holding pond will allow the gradual "Bleed Off" of collected water into the new storm inlet. At this time, we reserve the right to remove the holding pond when downstream conditions improve. The existing catchbasin/manhole will be left in the same location but the top of grate elevation raised, allowing a minimal amount of runoff to enter it. The New Grading Plan will allow off-site runoff to continue to enter the site from the East. This off-site runoff will be directed into and detained by the Holding Pond to be later discharged into the Storm Drainage System.

CALCULATIONS:

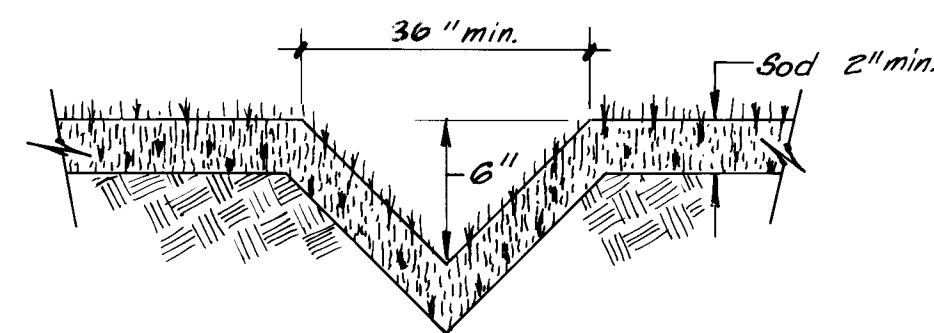
Area = 2.54 acres
I = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.3 in. Plate 22.2 D-1
i = (2.2)(2.3) = 5.06 in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A
Streets, Drives, Walks	0.95	0.25	0.2375
Roofs	0.90		
Lawns & Landscaping	0.25		
Undeveloped	0.40	2.29	0.9160
TOTAL		2.54	1.1535
Q(100) = (0.454)(5.06)(2.54) = 5.8363 cfs			
Q(10) = (0.657)(5.8363) = 3.8344 cfs			
CN = 78 Plate 22.2 C-2			
Direct Runoff = 0.7 in. Plate 22.2 C-4			
V(130) = (0.7)(2.54)(43560)/12 = 6,454 cu. ft.			
V(10) = (0.657)(6454) = 4240 cu. ft.			

PROPOSED ON-SITE CONDITIONS:

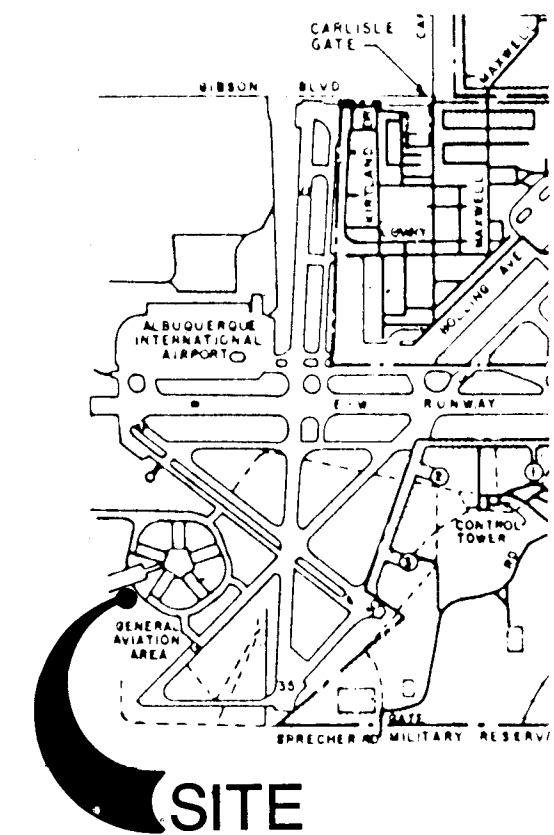
SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A
Streets, Drives, Walks	0.95	0.8113	0.7707
Roofs	0.90	0.2439	0.2195
Lawns & Landscaping	0.25	0.2017	0.0504
Undeveloped	0.40	1.2831	0.5132
TOTAL		2.54	1.5538
Q(100) = (0.6117)(5.06)(2.54) = 7.8618 cfs			
Q(10) = (0.657)(7.8618) = 5.1652 cfs			
CN = 84 Plate 22.2 C-3			
Direct Runoff = 1.4 in. Plate 22.2 C-4			
V(100) = (1.4)(2.54)(43560)/12 = 12,908 cu. ft.			
V(10) = (0.657)(12,908) = 8480 cu. ft.			



GRASS SWALE SEC. A-A

NTS

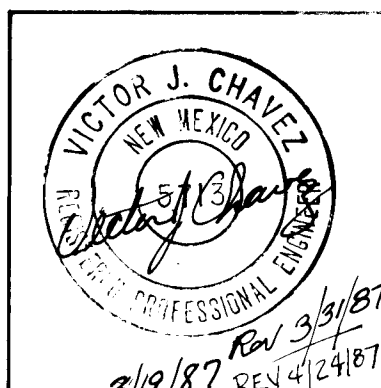
1 2 3 4 5 6 7 8 9 10 11 12
26 31 32 02 09



VICINITY MAP

N-16-Z

FLOOD HAZARD BDY. MAP / PANEL NO. 41



ADDY & PRICKETT
ARCHITECTURE
PLANNING
INTERIOR DESIGN

109 EDITH SE
ALBUQUERQUE NM 87102
505 842 6370

FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

Pen *Anty* 5/21/87
APPROVED DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
GRADING PLAN

SHEET

C2.2

SHEET 2 OF 41

NOTICE TO CONTRACTOR

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- STANDARD CURB AND GUTTER MATCH EXISTING.

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TBM (SAME AS BM)

SURVEY DATA:

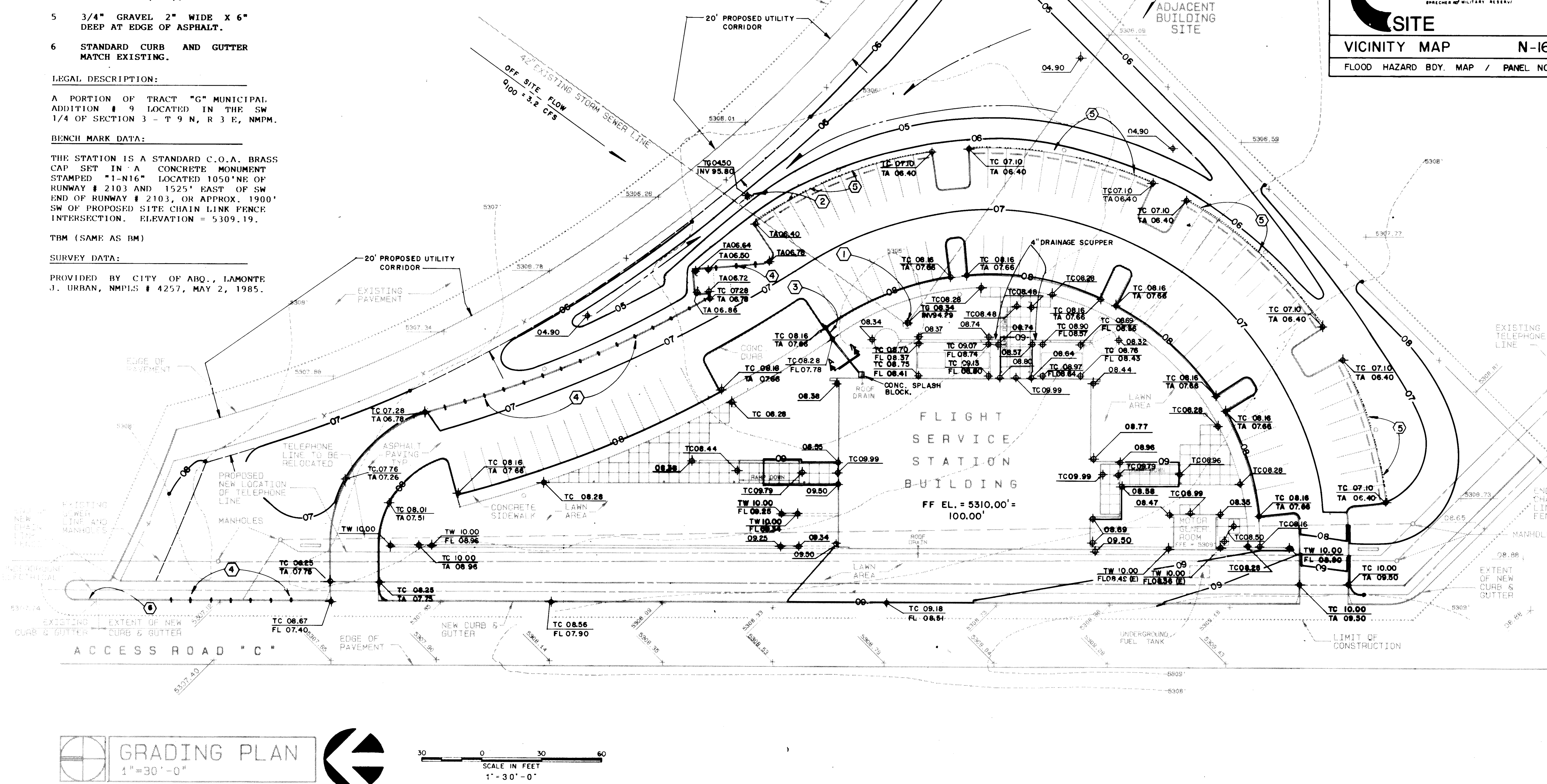
PROVIDED BY CITY OF ABO., LAMONTE J. URBAN, NMPIS # 4257, MAY 2, 1985.

LEGEND:

- CONTOUR (NEW) — 06 —
CONTOUR (EXIST) - - - - -
SPOT ELEVATION (NEW) — + —
SPOT ELEVATION (EXIST) — * —

GENERAL NOTES:

- ALL CONSTRUCTION ON EXISTING STORM SEWER LINE TO BE CONSTRUCTED PER SHEET C2.3
- ADJUST ALL NEW AND EXISTING MANHOLES TO FINISH GRADE.



GRADING PLAN
1" = 30'-0"

DRAINAGE PLAN

LOCATION AND DESCRIPTION:

The site is located off of Access Road "C" at the west end of the Albuquerque International Airport, in Albuquerque, New Mexico. The site, containing approximately 2.54 acres, is presently undeveloped and slopes from the perimeter to the center with an average slope of 1 percent. This site is not located within a flood zone.

EXISTING CONDITIONS:

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CALCULATIONS:

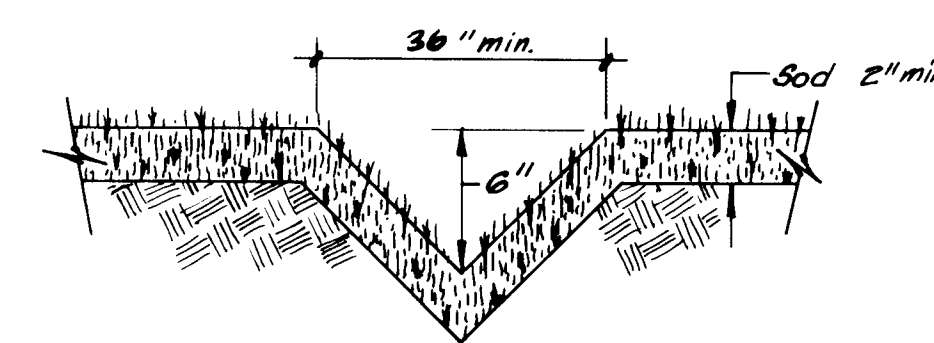
Area = 2.54 acres
I = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.3 in. Plate 22.2 D-1
i = (2.2)(2.3) = 5.06 in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A	COMPOSITE "C" = C X A / A
Streets, Drives, Walks	0.95	0.25	0.2375	
Roofs	0.90	0.90	0.81	
Lawns & Landscaping	0.25	0.25	0.0625	
Undeveloped	0.40	2.29	0.9160	
TOTAL		2.54	1.1535	0.4541
Q(100) = (0.454)(5.06)(2.54) = 5.8363 cfs				
Q(10) = (0.657)(5.8363) = 3.8344 cfs				
CN = 78 Plate 22.2 C-2				
Direct Runoff = 0.7 in. Plate 22.2 C-4				
V(100) = (0.7)(2.54)(43560)/12 = 6,454 cu. ft.				
V(10) = (0.657)(6.454) = 4240 cu. ft.				

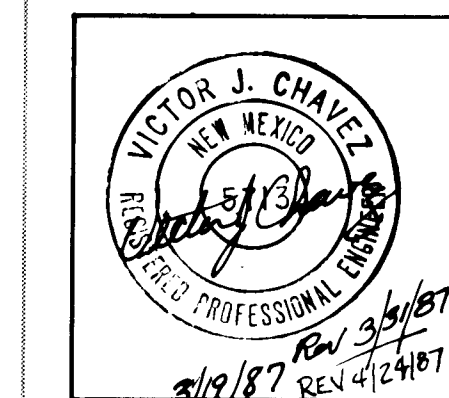
PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A	COMPOSITE "C" = C X A / A
Streets, Drives, Walks	0.95	0.8113	0.7707	
Roofs	0.90	0.2439	0.2195	
Lawns & Landscaping	0.25	0.2017	0.0504	
Undeveloped	0.40	1.2831	0.5132	
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Q(100) = (0.6117)(5.06)(2.54) = 7.8618 cfs				
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V(100) = (1.4)(2.54)(43560)/12 = 12,908 cu. ft.				
V(10) = (0.657)(12,908) = 8480 cu. ft.				



GRASS SWALE SEC. A-A

26 31320389



ADDY & PRICKETT
ARCHITECTURE
PLANNING
INTERIOR DESIGN

109 EDITH S E
ALBUQUERQUE NM 87002
505 842 6370

FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
GRADING PLAN

SHEET

C2.2
SHEET 2 OF 41

NOTICE TO CONTRACTOR

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- 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, I.E., WINDROWS, SILT FENCING, OR APPROVED EQUAL.
- CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- WHEN CONSTRUCTION UNDER THIS PROJECT CONNECTS TO EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE AN EASY RIDING CONNECTION.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

KEYED NOTES:

- EXISTING STORM DRAIN INLET. SEE GENERAL NOTE NUMBER 1.
- CONSTRUCT NEW STORM DRAIN INLET. SEE GENERAL NOTE NUMBER 1.
- CONSTRUCT 12" SIDEWALK CULVERT IN ACCORDANCE WITH CITY STD. DWG. K-16.
- 16 6" CURB CUTS @ 10' 0" O.C. (TYP)

GENERAL NOTES:

- ALL CONSTRUCTION ON EXISTING STORM SEWER LINE TO BE CONSTRUCTED FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY OF ALBUQUERQUE. DRAWING NUMBER

LEGAL DESCRIPTION:

A PORTION OF TRACT "G" MUNICIPAL ADDITION # 9 LOCATED IN THE SW 1/4 OF SECTION 3 - T 9 N, R 1 E, NMPD.

BENCH MARK DATA:

THE STATION IS A STANDARD C.O.A. BRASS CAP SET IN A CONCRETE MONUMENT STAMPED "1-N16" LOCATED 1050' NE OF RUNWAY # 2103 AND 1525' EAST OF SW END OF RUNWAY # 2103, OR APPROX. 1900' SW OF PROPOSED SITE CHAIN LINK FENCE INTERSECTION. ELEVATION = 5309.19.

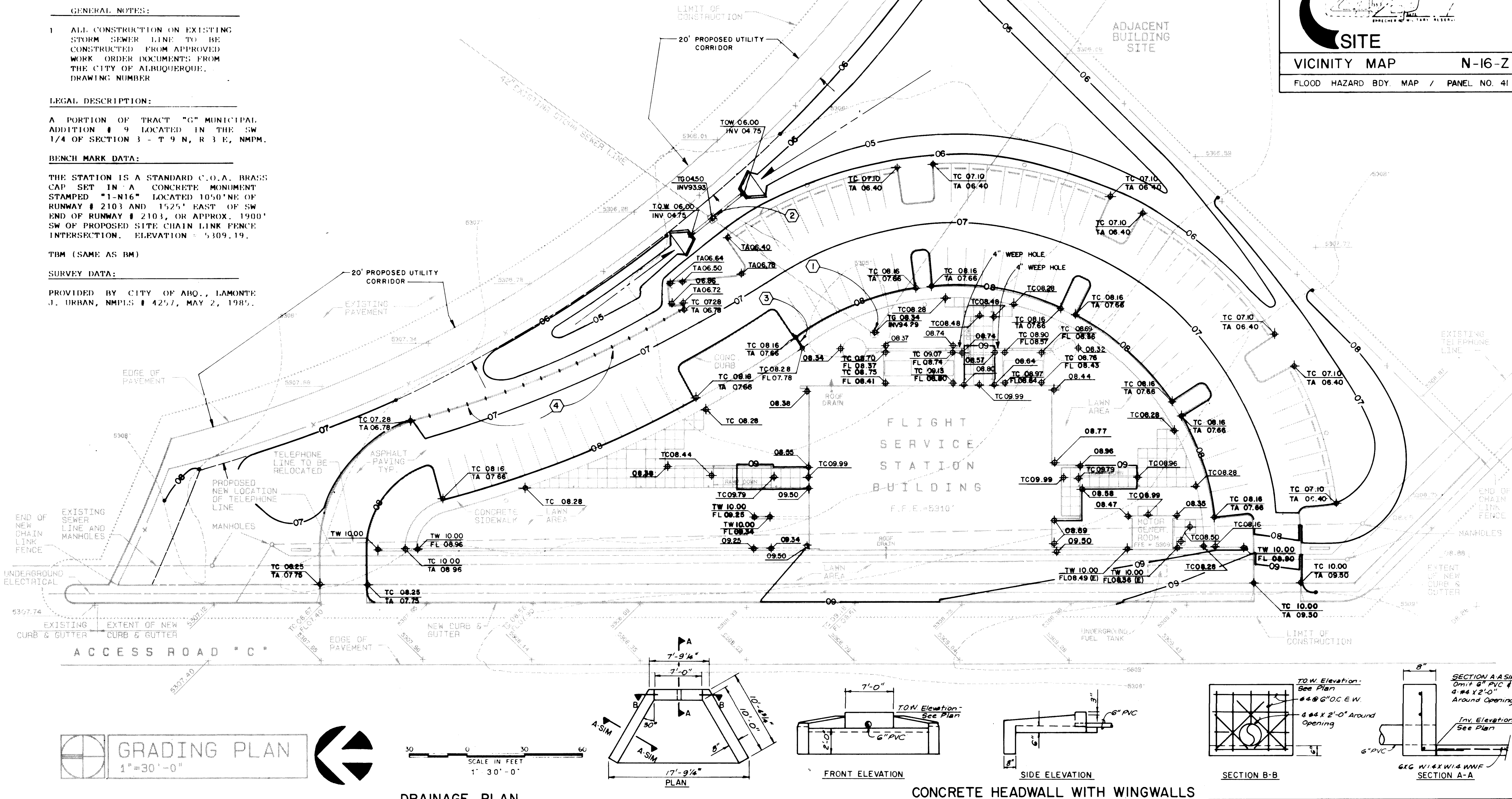
TBM (SAME AS BM)

SURVEY DATA:

PROVIDED BY CITY OF AHO., LAMONTE J. URBAN, NMPD # 4257, MAY 2, 1987.

LEGEND:

- CONTOUR (NEW) — 06 —
- CONTOUR (EXIST) — 06 —
- SPOT ELEVATION (NEW) — 06 —
- SPOT ELEVATION (EXIST) — 06 —



GRADING PLAN
1"=30'-0"

DRAINAGE PLAN

CONCRETE HEADWALL WITH WINGWALLS

SECTION B-B

SECTION A-A

LOCATION AND DESCRIPTION:

The site is located off of Access Road "C" at the west end of the Albuquerque International Airport, in Albuquerque, New Mexico. The site, containing approximately 2.54 acres, is presently undeveloped and slopes from the perimeter to the corner with an average slope of 1 percent. This site is not located within a flood zone.

EXISTING CONDITIONS:

Presently, on-site runoff is directed to the center of the site where an existing combination catchbasin/manhole is located. The runoff after entering the catchbasin/manhole is conveyed to the AMARCA South Division Channel through a series of conduits. Due to existing on-site elevations and off-site conditions, off-site runoff from property located to the Northwest enters the site. This off-site runoff is directed to the catchbasin/manhole through an existing earthen swale.

PROPOSED CONDITIONS:

Proposed development of the site includes a building with related parking, a holding pond and landscaping. Due to proposed development, flows from the site will increase from 5.84 cfs to 7.86 cfs. The flows, due to present downstream conditions, will be routed to a holding pond and discharge into a new storm inlet which will be incorporated into the Existing Storm Drainage System. This holding pond will allow the gradual "Bleed Off" of collected water into the new storm inlet. At this time, we reserve the right to remove the holding pond when downstream conditions improve. The existing catchbasin/manhole will be left in the same location but the top of grate elevation raised, allowing a minimal amount of runoff to enter it. The New Grading Plan will allow off-site runoff to continue to enter the site from the Northeast. This off-site runoff will be directed into and detained by the Holding Pond to be later discharged into the Storm Drainage System.

CALCULATIONS:

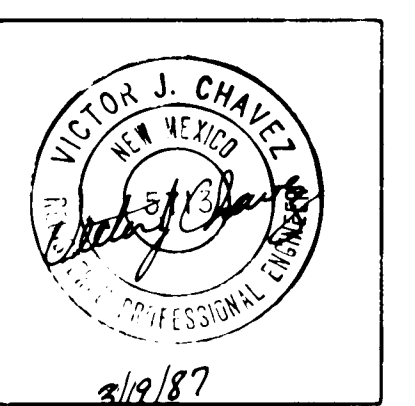
Area = 2.54 acres
1 = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.3 in. Plate 22.2 D-1
i = (2.2)(2.3) = 5.06 in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A
Streets, Drives, Walks	0.95	0.25	0.2375
Roofs	0.90		
Lawns & Landscaping	0.25		
Undeveloped	0.40	2.29	0.9160
TOTAL		2.54	1.1535
Q(100) = (0.454)(5.06)(2.54) = 5.8363 cfs			
Q(10) = (0.657)(5.8363) = 3.8344 cfs			
CN = 78 Plate 22.2 C-2			
Direct Runoff = 0.7 in. Plate 22.2 C-4			
V(100) = (0.7)(2.54)(43560)/12 = 6,454 cu. ft.			
V(10) = (0.657)(6454) = 4240 cu. ft.			

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A
Streets, Drives, Walks	0.95	0.8113	0.7707
Roofs	0.90	0.2439	0.2195
Lawns & Landscaping	0.25	0.2017	0.0504
Undeveloped	0.40	1.2831	0.5132
TOTAL		2.54	1.5538
Q(100) = (0.6117)(5.06)(2.54) = 7.8618 cfs			
Q(10) = (0.657)(7.8618) = 5.1652 cfs			
CN = 84 Plate 22.2 C-3			
Direct Runoff = 1.4 in. Plate 22.2 C-4			
V(100) = (1.4)(2.54)(43560)/12 = 12,908 cu. ft.			
V(10) = (0.657)(12,908) = 8480 cu. ft.			



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ARCHITECTURE
PLANNING
INTERIOR DESIGN

109-EDITH-SE
ALBUQUERQUE-NM-8702
505-842-6370

FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

DATE: 3/6/87
PROJECT: 86007
REVISIONS:

TITLE
GRADING PLAN

SHEET

C2.2

SHEET 2 OF 40

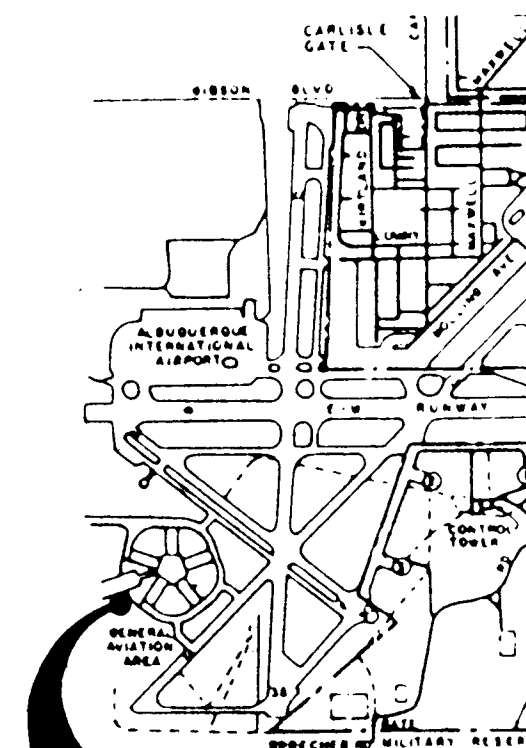
FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
STORM INLET
DRAWINGS
SHEET

C2.3
SHEET 3 OF 41



SITE

VICINITY MAP N-16-Z

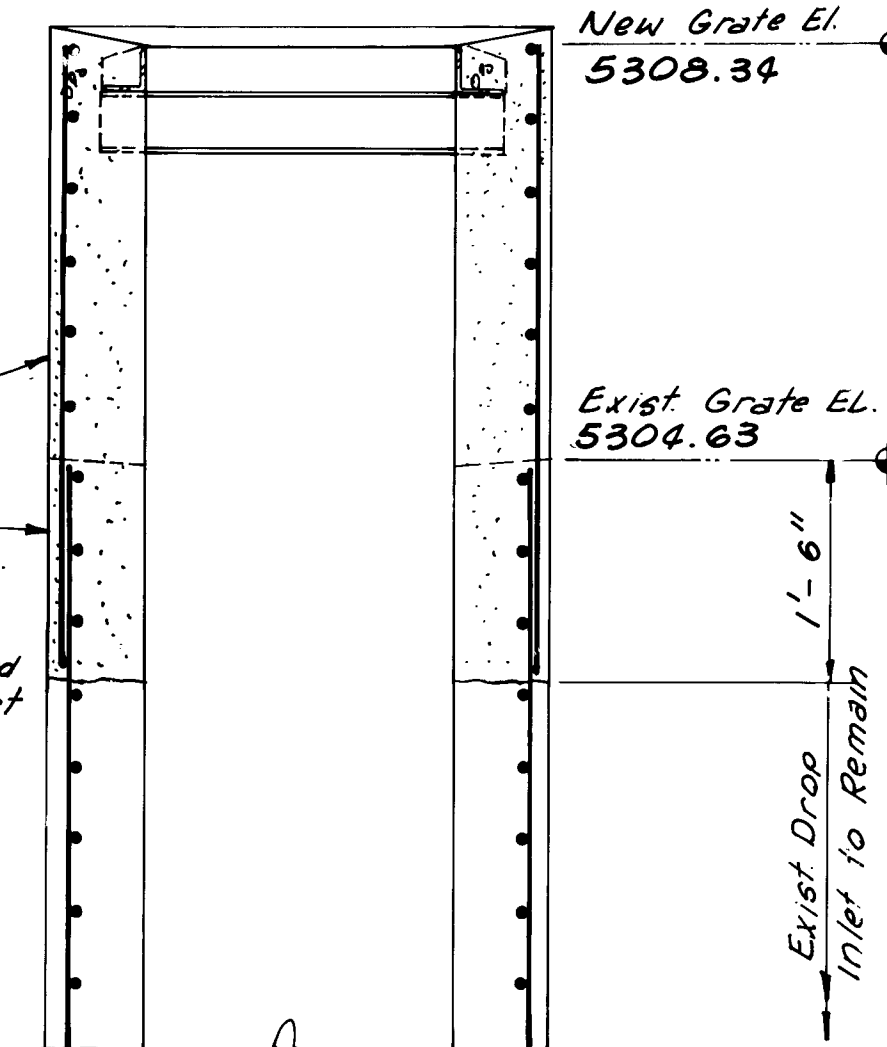
FLOOD HAZARD BOY. MAP / PANEL NO. 41

LEGAL DESCRIPTION:

A PORTION OF TRACT "G" MUNICIPAL ADDITION # 9 LOCATED IN THE SW 1/4 OF SECTION 3 - T 9 N, R 3 E, NMPH.

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986" (COA STDND).
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- 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 OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- REFERENCE MADE TO STANDARD DRAWINGS REFER TO ALBUQUERQUE STANDARD DRAWINGS.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

NOTE: Exist. Grate and Frame to be Removed With Care and Reinstalled at New Elev.



SECTION

Construct Ladder Rung In Accordance With City Standard Drawing #2229

EXIST. DROP INLET MODIFICATION

N.T.S.

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT TO CONSTRUCT FACILITIES WITHIN CITY RIGHT-OF-WAY.

LEGEND

- SD - EXIST. STORM SEWER
- NEW SIDEWALK
- NEW CURB AND GUTTER
- NEW DROP INLET
- EXIST. DROP INLET

Proposed 20' Utility Corridor

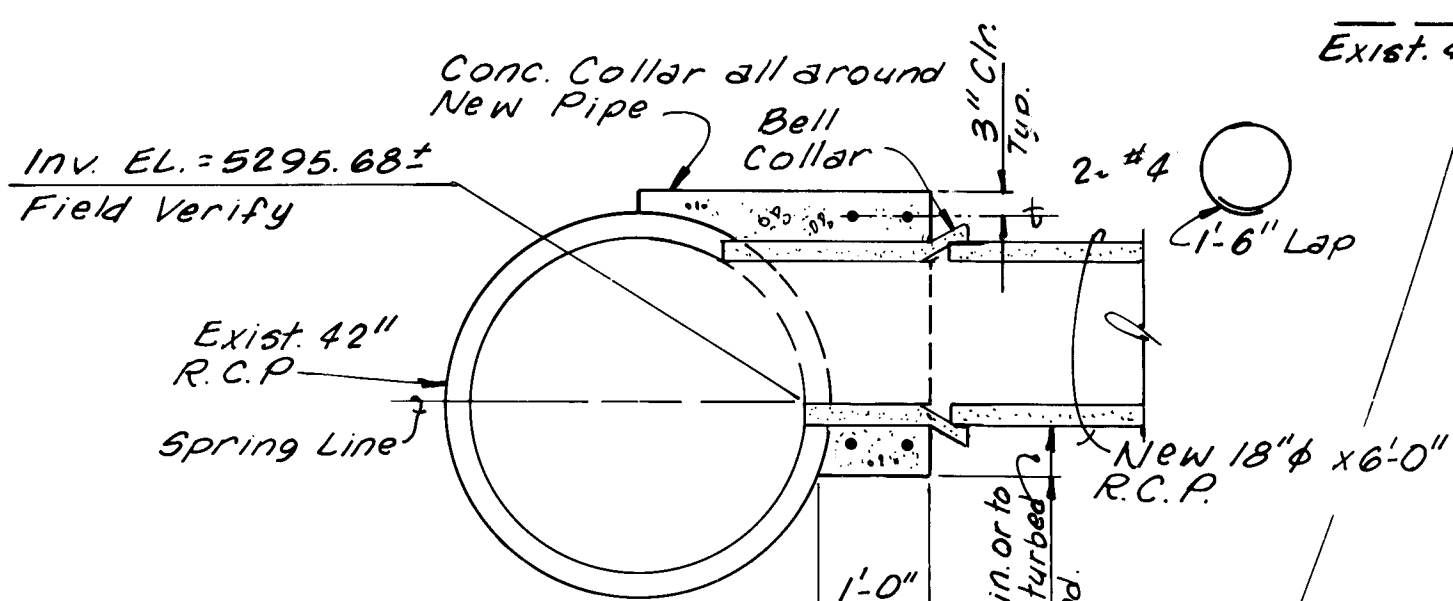
Edge of Asphalt

Exist. 42" R.C.P.

Sta. 2+05
Raise Exist. Grate
Exist. Grate EL = 5304.63
New Grate EL = 5308.34
See Sect. 1 This Sheet

Sta. 1+05
Connect New 18" R.C.P.
To Exist. 42" R.C.P.

Sta. 1+00 5' Lt.
Construct Type
Single "D" Drop
Inlet In Accordance
With City Std. Drawg
#2206

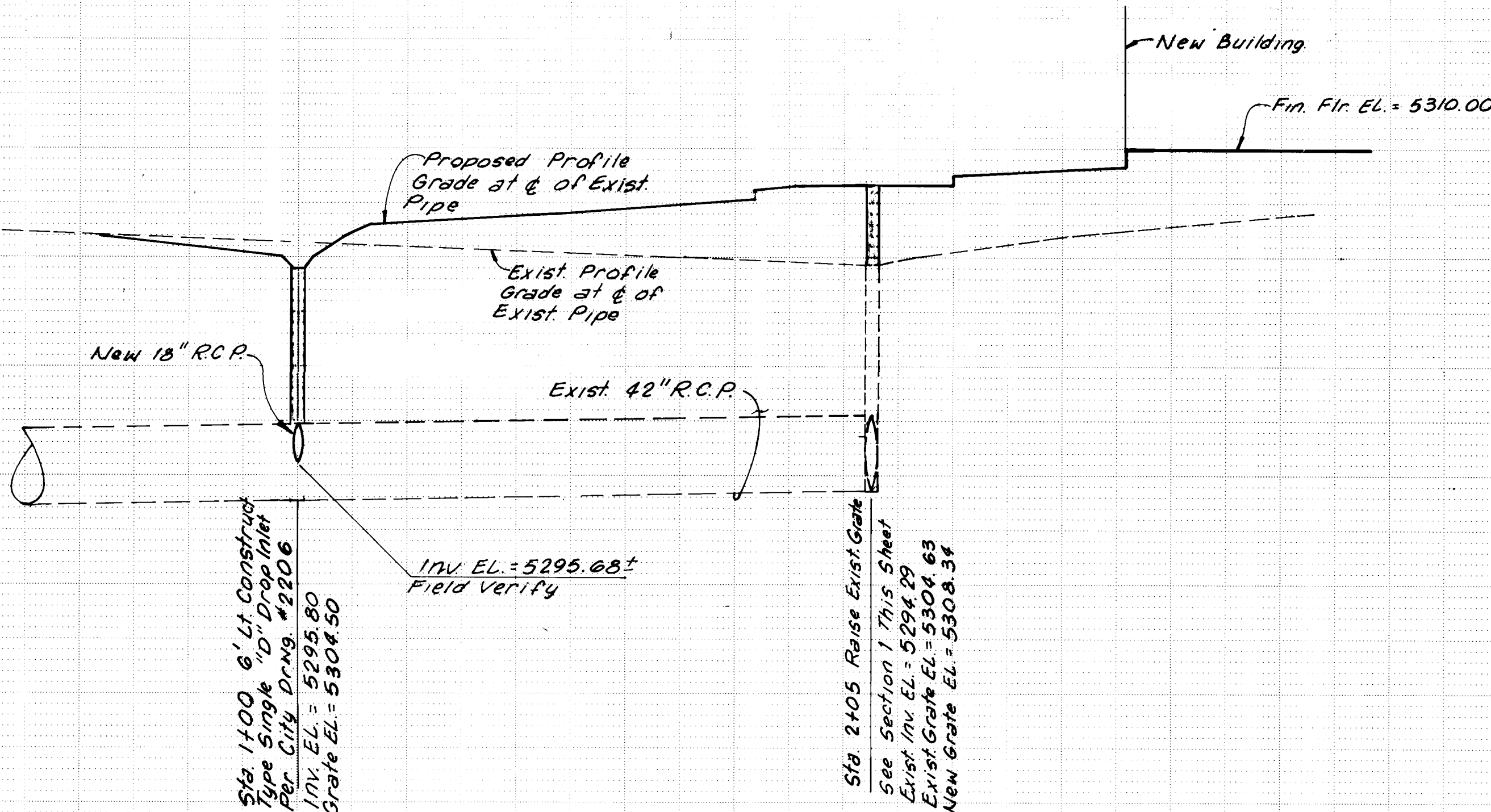


CONNECTION TO EXIST. PIPE

N.T.S.

SCALE:
HORIZ: 1" = 20'
VERT: 1" = 5'

5310
5305
5300
5295
5290



Sta. 1+00 6' Lt. Construct
Type Single "D" Drop Inlet
Per City Drawg. #2206
Inv. EL = 5295.80
Grate EL = 5304.50

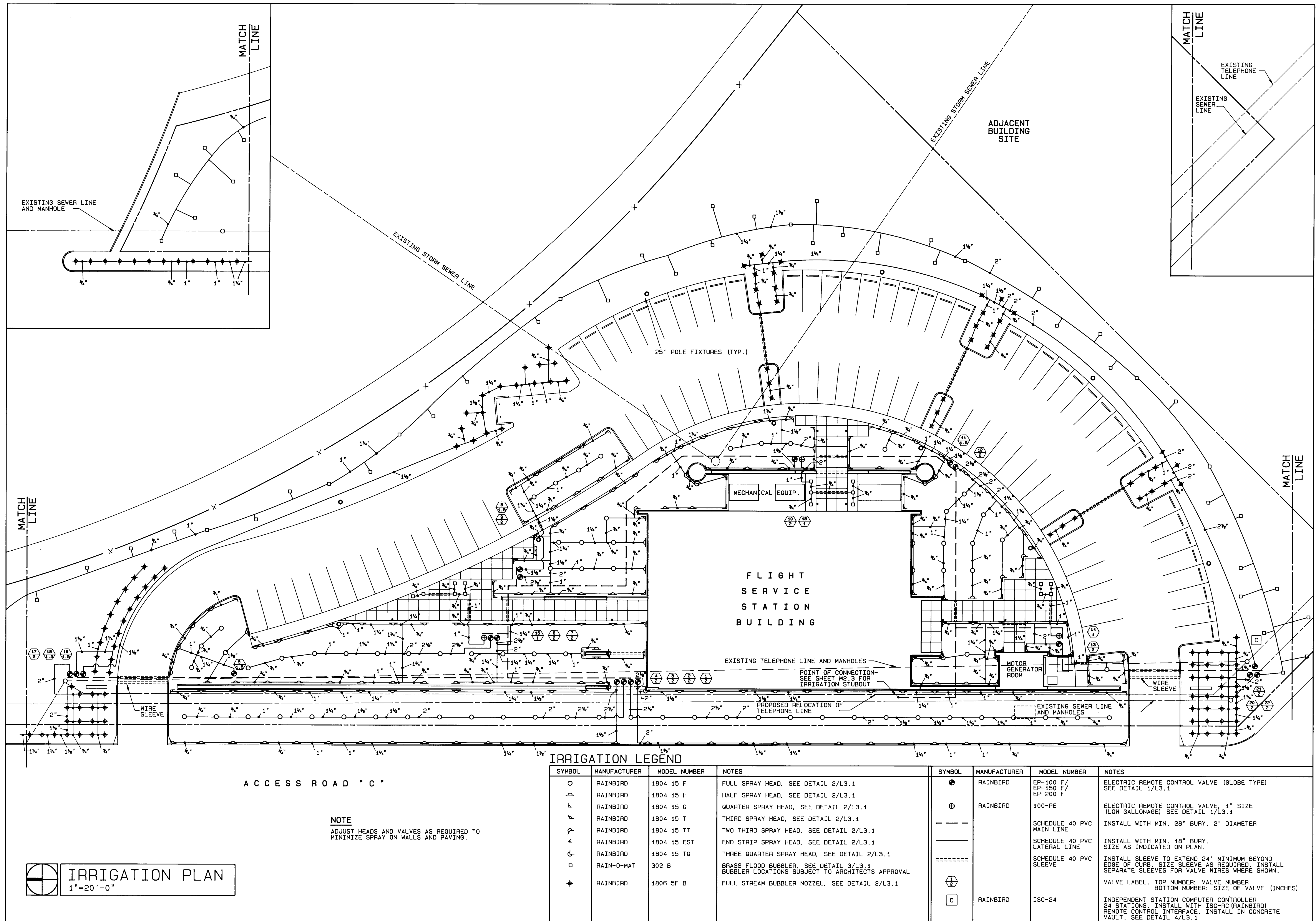
Sta. 2+05 Raise Exist. Grate
See Section 1 This Sheet
Exist. Inv. EL = 5294.29
Exist. Grate EL = 5304.63
New Grate EL = 5308.34

0+00

1+00

2+00

26 31320589



IRRIGATION LEGEND

SYMBOL	MANUFACTURER	MODEL NUMBER	NOTES	SYMBOL	MANUFACTURER	MODEL NUMBER	NOTES
○	RAINBIRD	1804 15 F	FULL SPRAY HEAD, SEE DETAIL 2/L3.1	⊙	RAINBIRD	EP-100 F/ EP-150 F/ EP-200 F	ELECTRIC REMOTE CONTROL VALVE (GLOBE TYPE) SEE DETAIL 1/L3.1
⌒	RAINBIRD	1804 15 H	HALF SPRAY HEAD, SEE DETAIL 2/L3.1	⊕	RAINBIRD	100-PE	ELECTRIC REMOTE CONTROL VALVE, 1" SIZE (LOW GALLONAGE) SEE DETAIL 1/L3.1
⌒	RAINBIRD	1804 15 Q	QUARTER SPRAY HEAD, SEE DETAIL 2/L3.1	---		SCHEDULE 40 PVC MAIN LINE	INSTALL WITH MIN. 28" BURY, 2" DIAMETER
⌒	RAINBIRD	1804 15 T	THIRD SPRAY HEAD, SEE DETAIL 2/L3.1	---		SCHEDULE 40 PVC LATERAL LINE	INSTALL WITH MIN. 18" BURY, SIZE AS INDICATED ON PLAN
⌒	RAINBIRD	1804 15 TT	TWO THIRD SPRAY HEAD, SEE DETAIL 2/L3.1	---		SCHEDULE 40 PVC SLEEVE	INSTALL SLEEVE TO EXTEND 24" MINIMUM BEYOND EDGE OF CURB. SIZE SLEEVE AS REQUIRED. INSTALL SEPARATE SLEEVES FOR VALVE WIRES WHERE SHOWN.
⌒	RAINBIRD	1804 15 EST	END STRIP SPRAY HEAD, SEE DETAIL 2/L3.1	⎓			VALVE LABEL. TOP NUMBER: VALVE NUMBER BOTTOM NUMBER: SIZE OF VALVE (INCHES)
⌒	RAINBIRD	1804 15 TQ	THREE QUARTER SPRAY HEAD, SEE DETAIL 2/L3.1	⎓	RAINBIRD	ISC-24	INDEPENDENT STATION COMPUTER CONTROLLER 24 STATIONS. INSTALL WITH ISC-RC (RAINBIRD) REMOTE CONTROL INTERFACE. INSTALL IN CONCRETE VAULT. SEE DETAIL 4/L3.1
□	RAIN-O-MAT	302 B	BRASS FLOOD BUBBLER, SEE DETAIL 3/L3.1 BUBBLER LOCATIONS SUBJECT TO ARCHITECT'S APPROVAL				
◆	RAINBIRD	1806 5F B	FULL STREAM BUBBLER NOZZEL, SEE DETAIL 2/L3.1				

ACCESS ROAD "C"

NOTE
ADJUST HEADS AND VALVES AS REQUIRED TO
MINIMIZE SPRAY ON WALLS AND PAVING.

IRRIGATION PLAN
1"=20'-0"

ADDY & PRICKETT
ARCHITECTURE
PLANNING
INTERIOR DESIGN

109-EDITH-SE
ALBUQUERQUE NM-87102
505-842-6370

FLIGHT SERVICE STATION BUILDING

ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED *Don Martin* DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

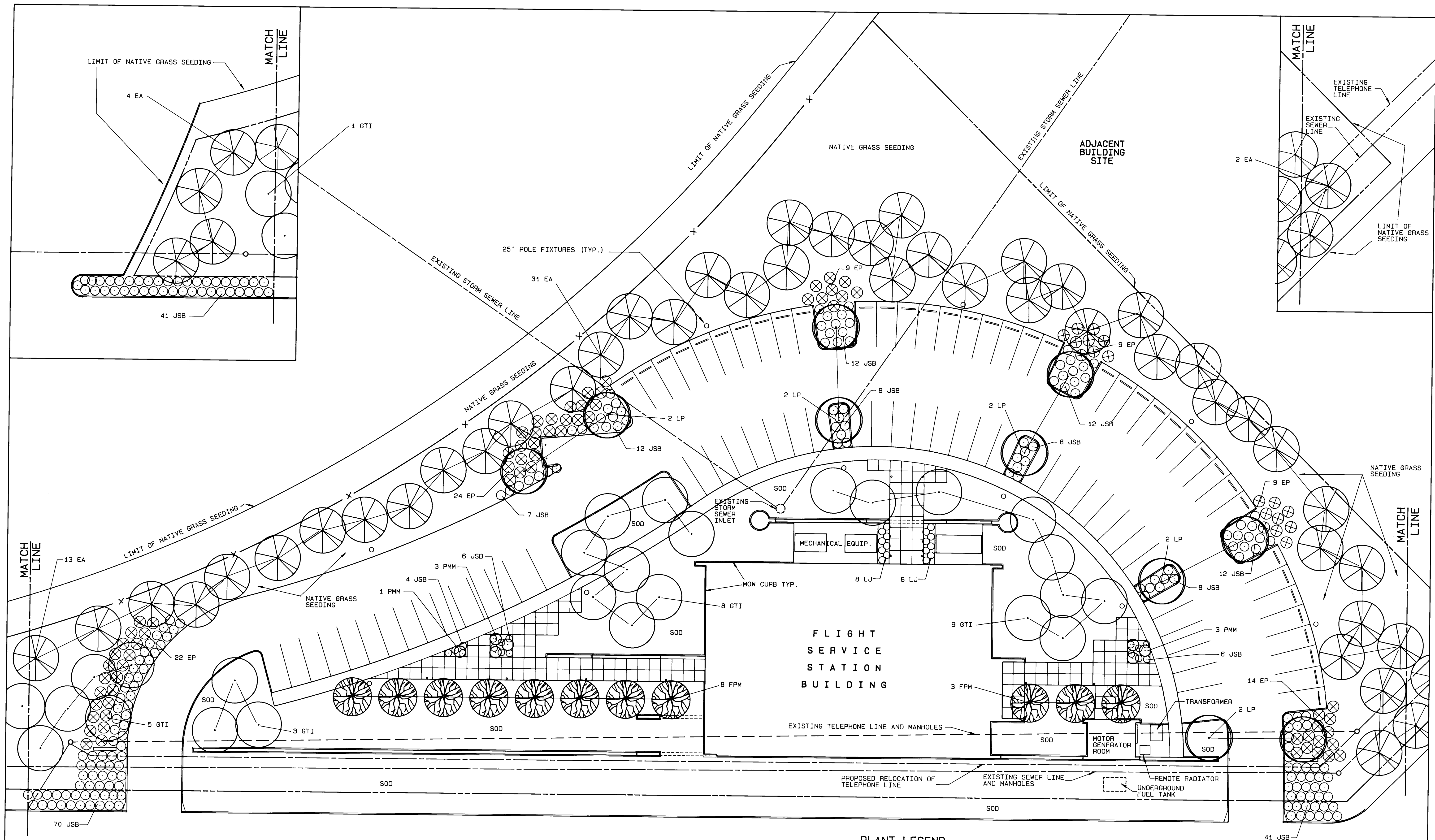
TITLE
IRRIGATION
PLAN

SHEET

L2.1

SHEET 4 OF 41

26 31320689



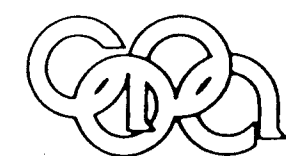
ACCESS ROAD "C"

NOTES

1. INSTALL NATIVE GRASS SEEDING THROUGHOUT AREAS SHOWN. SEE SPECIFICATIONS.
2. INSTALL SOD THROUGHOUT AREAS SHOWN. SEE SPECIFICATIONS.
3. INSTALL 3" DEPTH BARK MULCH THROUGHOUT AREAS IN BETWEEN SHRUBS TYPICAL SEE DETAIL 7/L3.1
4. INSTALL ASH, LONDON PLANE, AND HONEY LOCUST TREES AS PER DETAIL 5/L3.1. ABOVE TREES TO HAVE LOW BRANCH BETWEEN 5 1/2" AND 6 1/2" ABOVE TOP OF ROOT BALL. TREES OF SIMILAR SPECIES ARE TO BE MATCHED IN APPEARANCE.
5. INSTALL SHRUBS AS PER DETAIL 6/L3.1

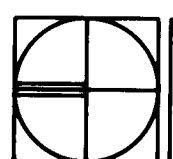
PLANT LEGEND

QUANTITY	SYMBOL	BOTANIC NAME	COMMON NAME	SIZE/NOTES
26	GTI	GLEDITSIA TRIACANTHOS INERMIS 'IMPERIAL'	IMPERIAL HONEY LOCUST	2 1/2" CALIPER MATCHED STANDARDS
10	LP	PLATANUS ACERIFOLIA	LONDON PLANE TREE	2 1/2" CALIPER MATCHED STANDARDS
50	EA	ELEAGNUS ANGUSTIFOLIA	RUSSIAN OLIVE	MULTI-STEM. 2 1/2" MIN. CALIPER OF LARGEST TRUNK. INSTALL TREES W/ 4" DIA., 6" DEEP WATER BASIN. FILL WITH 4" DEPTH BARK MULCH. INSTALL AS PER 5/L3.1. NO STAKE REQUIRED.
11	FPM	FRAXINUS PENNSYLVANICA 'MARSHALL'	MARSHAL SEEDLESS ASH	2 1/2" CALIPER MATCHED STANDARDS
87	EP	ELEAGNUS PUNGENS	SILVERBERRY	5 GALLON CONTAINER
247	JSB	JUNIPERUS SABINA 'BROADMOOR'	BROADMOOR JUNIPER	5 GALLON CONTAINER
7	PMM	PINUS MUGO MUGHUS	MUGO PINE	7 GALLON CONTAINER
16	LJ	LIGUSTRUM JAPONICUM	GLOSSY PRIVET	5 GALLON CONTAINER

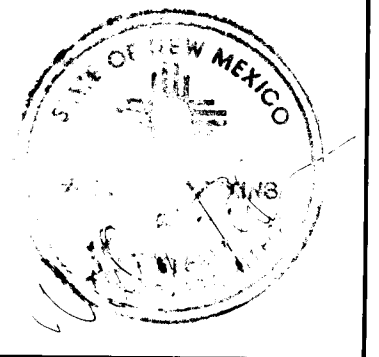


Campbell Okuma Perkins Associates, Inc.
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418 Central S.E.
Albuquerque, NM 87102
(505) 242-9928

1238 Richards Ave. S.E.
Santa Fe, NM 87501
(505) 962-1829



PLANTING PLAN
1"=20'-0"



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INTERIOR DESIGN

109 EDITH S.E.
ALBUQUERQUE, NM 87102
505 842 6370

FLIGHT SERVICE STATION BUILDING

ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED DATE
Ann Martin 7/20/07

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
PLANTING
PLAN

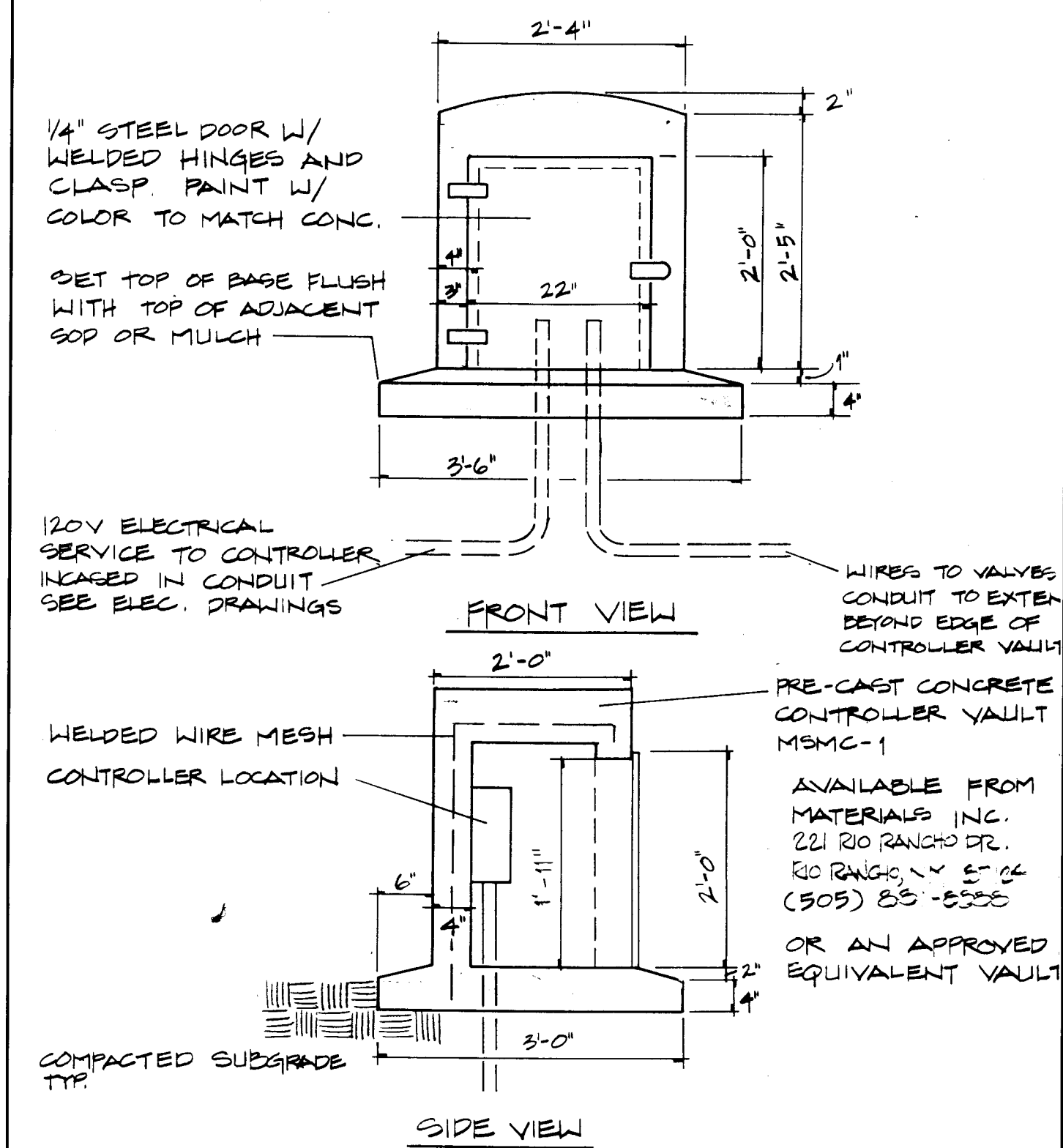
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L2.2

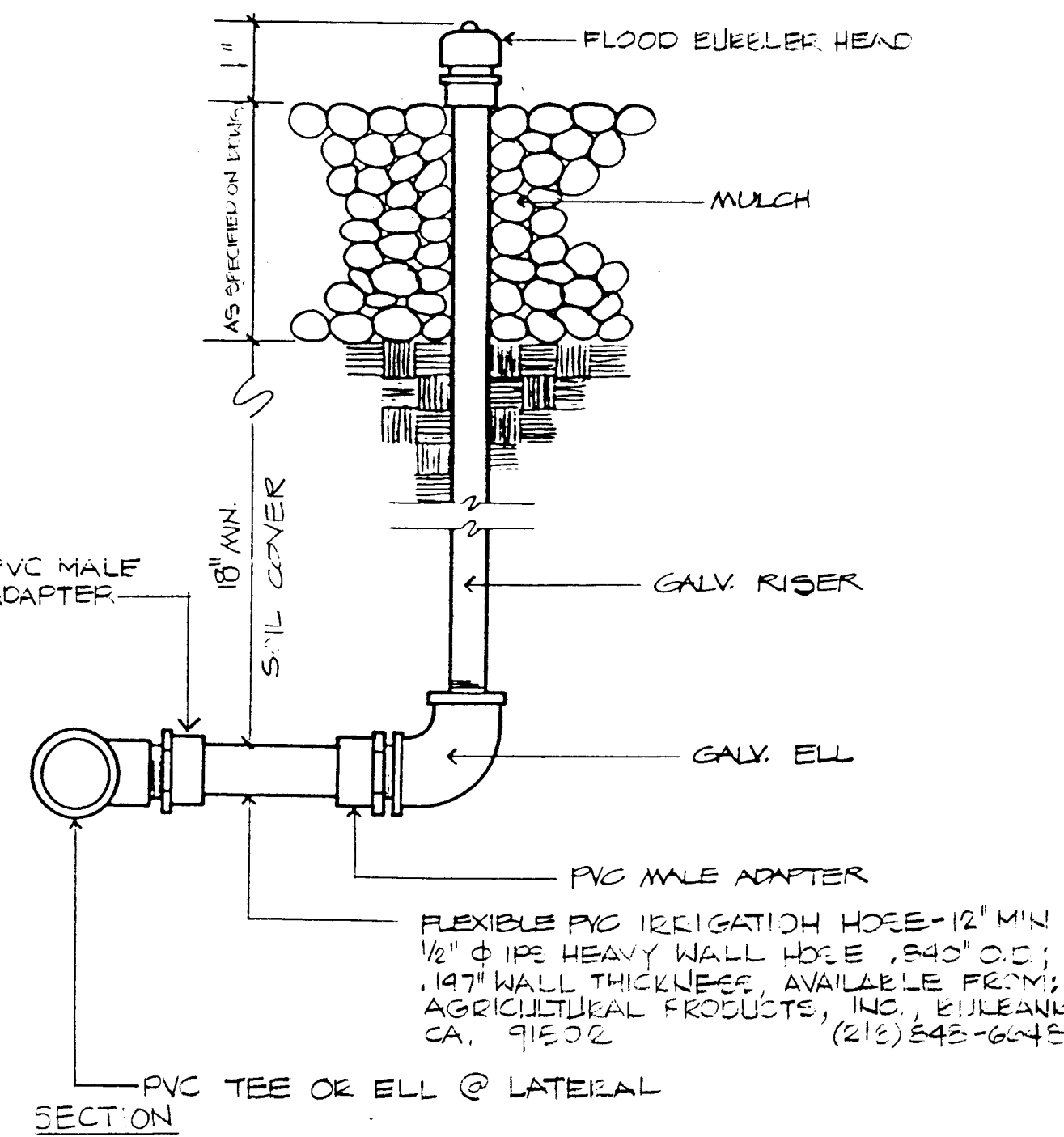
SHEET 5 OF 41

3132

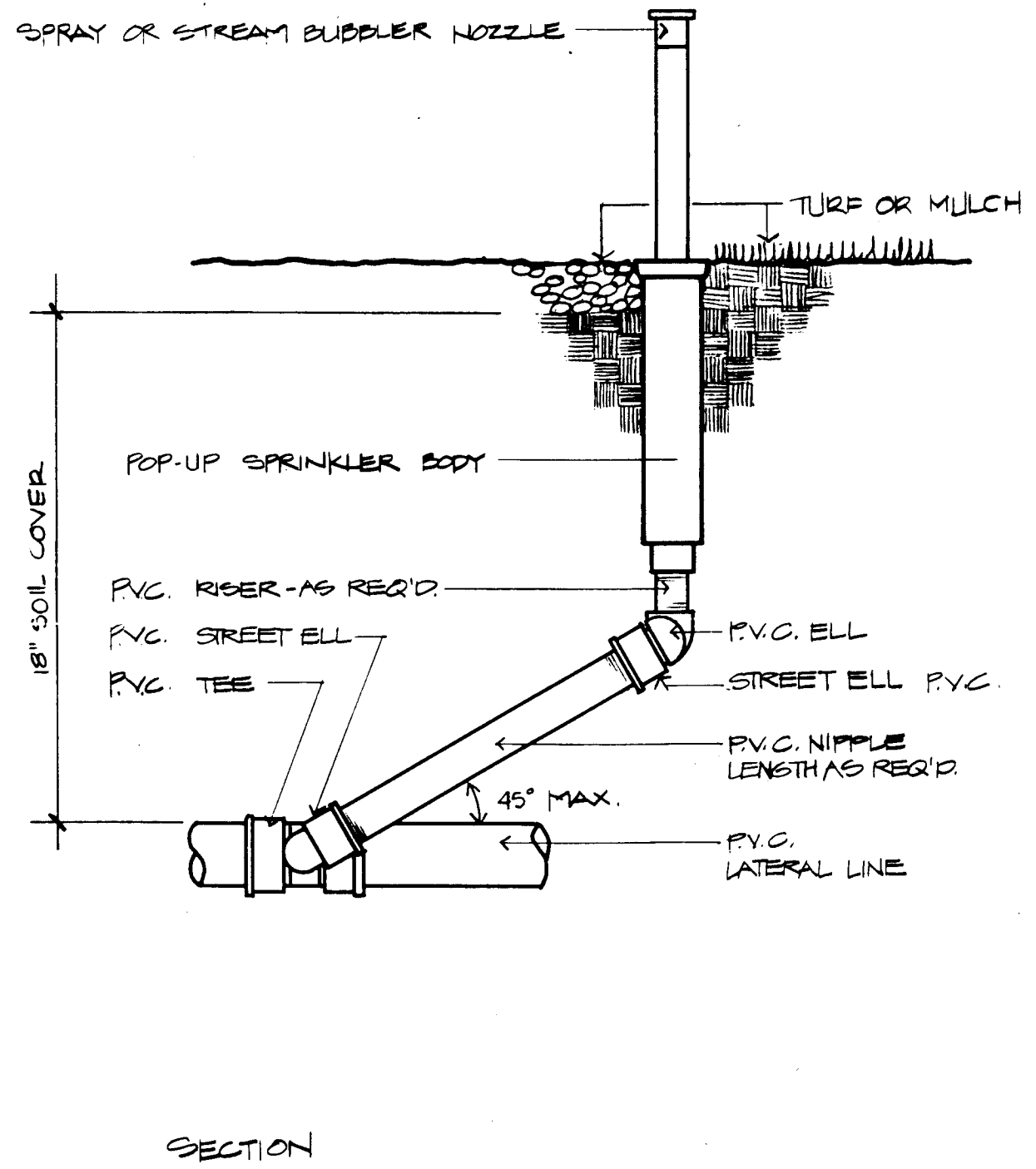
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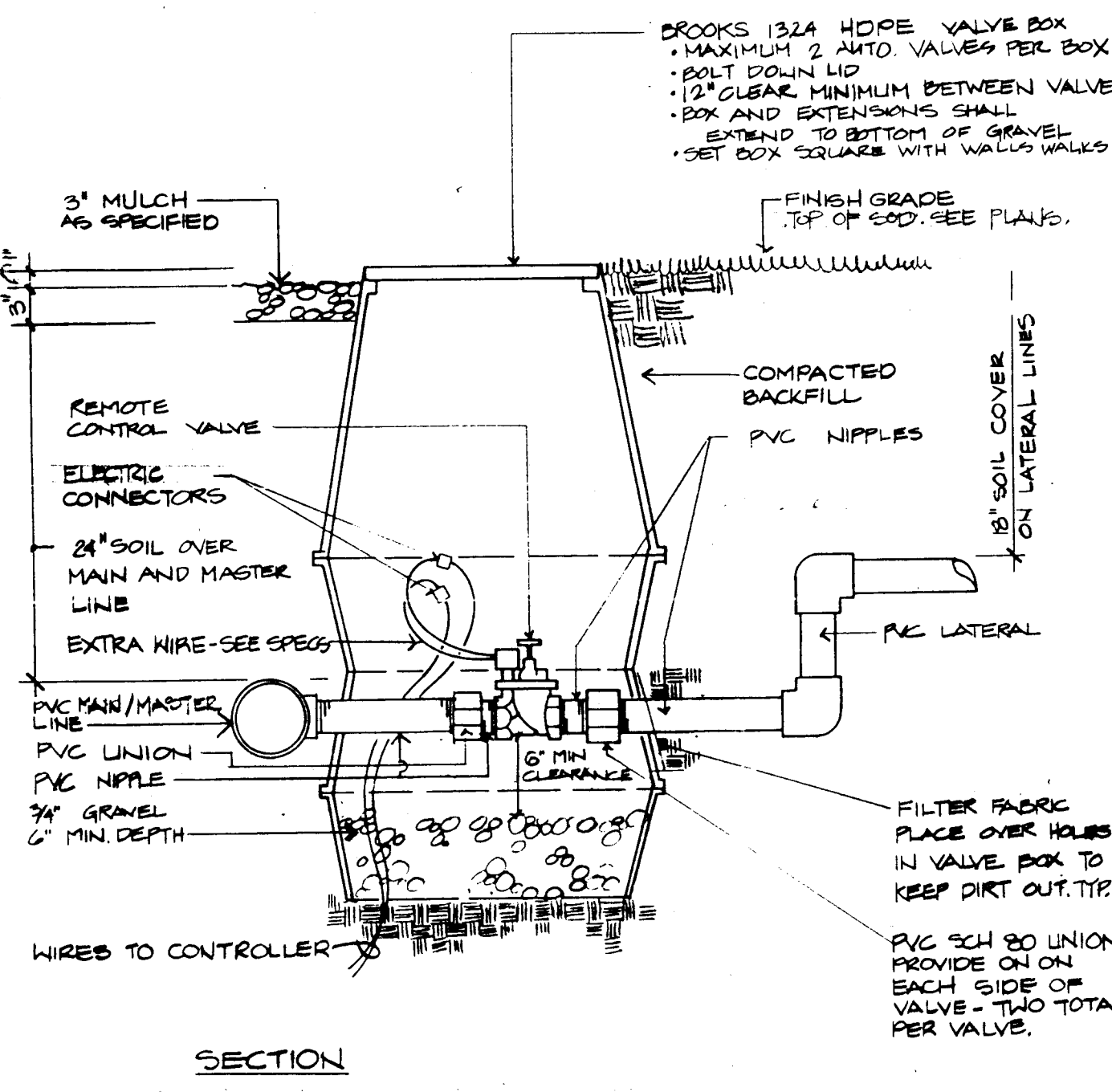
4 AUTOMATIC CONTROLLER VAULT
L3.1



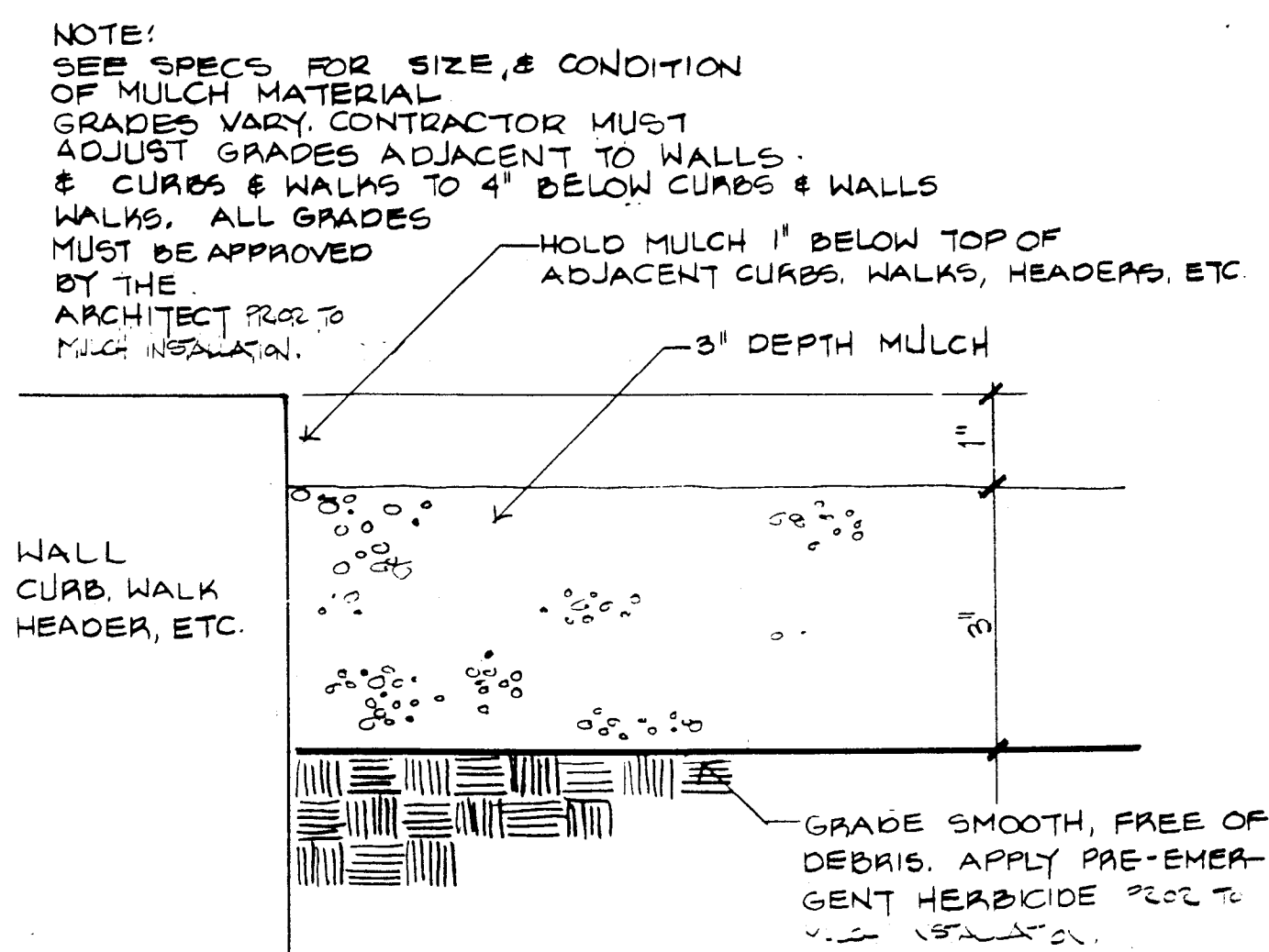
3 FLOOD BUBBLER
L3.1



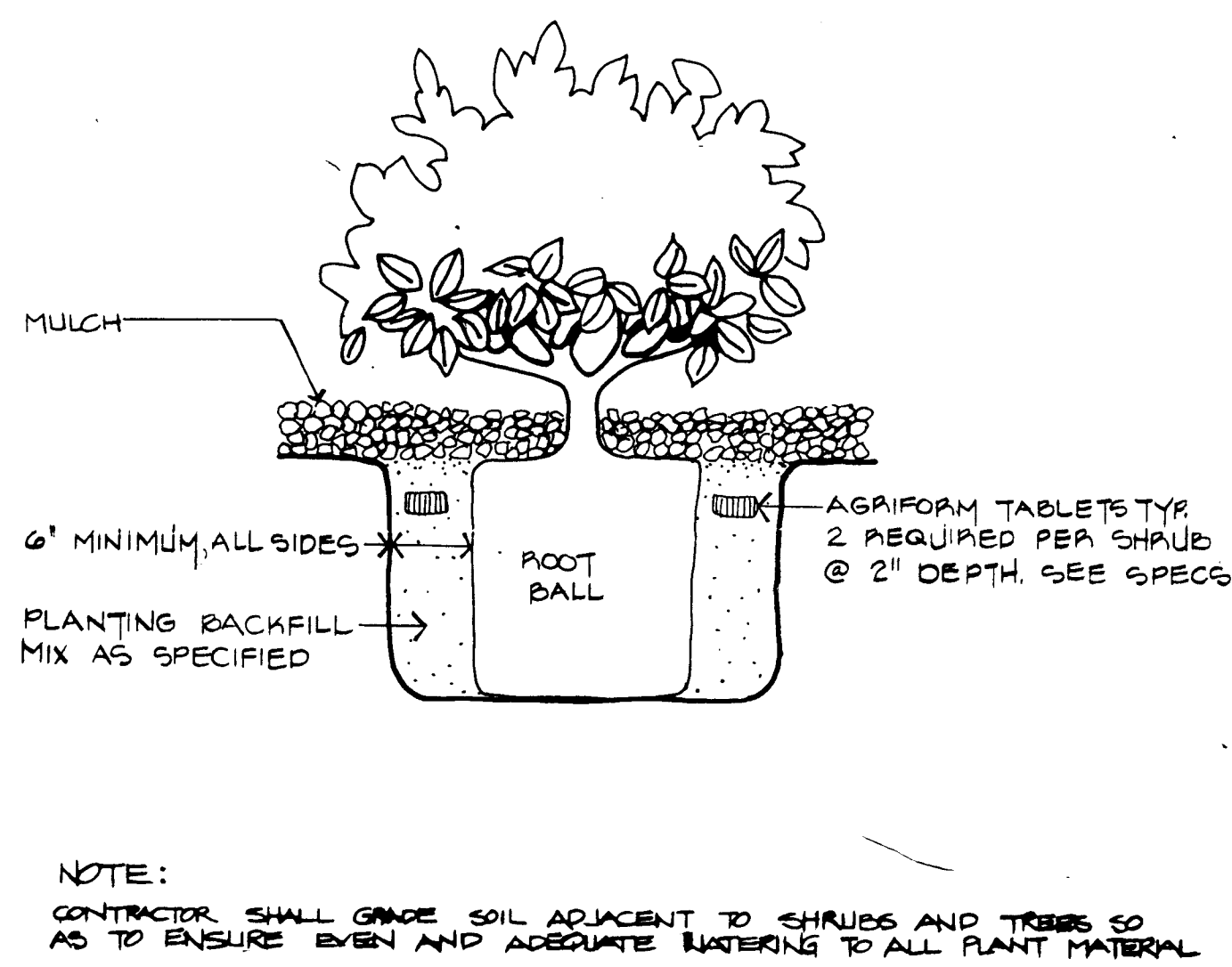
2 POP-UP SPRAY SPRINKLER/
STREAM BUBBLER
L3.1



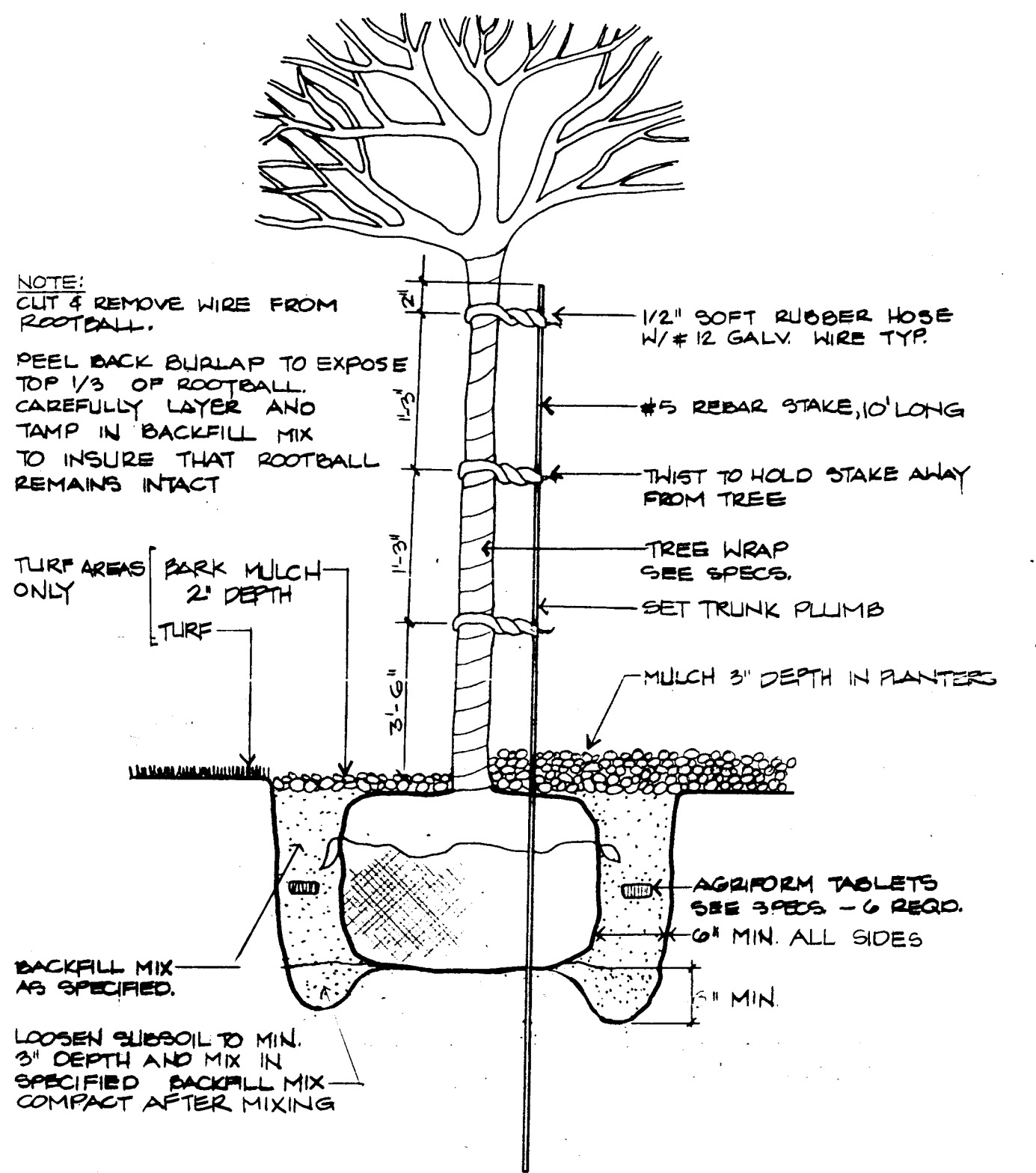
1 REMOTE CONTROL VALVE
L3.1



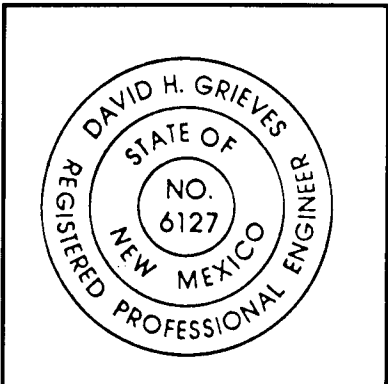
7 MULCH INSTALLATION
L3.1



6 SHRUB PLANTING DETAIL
L3.1



5 TREE PLANTING DETAIL
L3.1



ADDY & PRICKETT
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INTERIOR DESIGN

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505 - 842 - 6370

FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

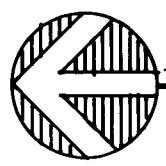
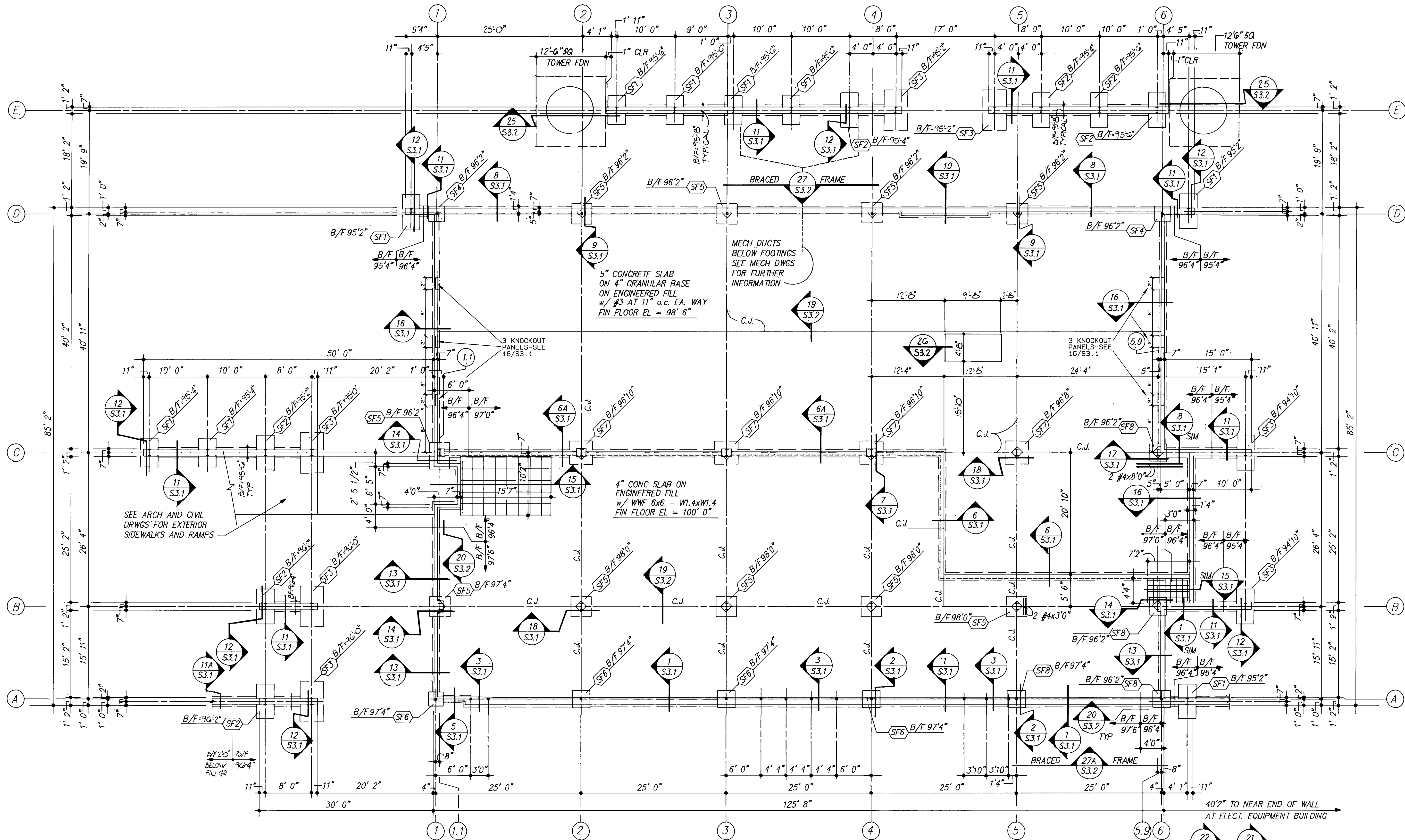
APPROVED: *[Signature]* DATE: 5/21/87

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
FOUNDATION
PLAN
SHEET

SI.1

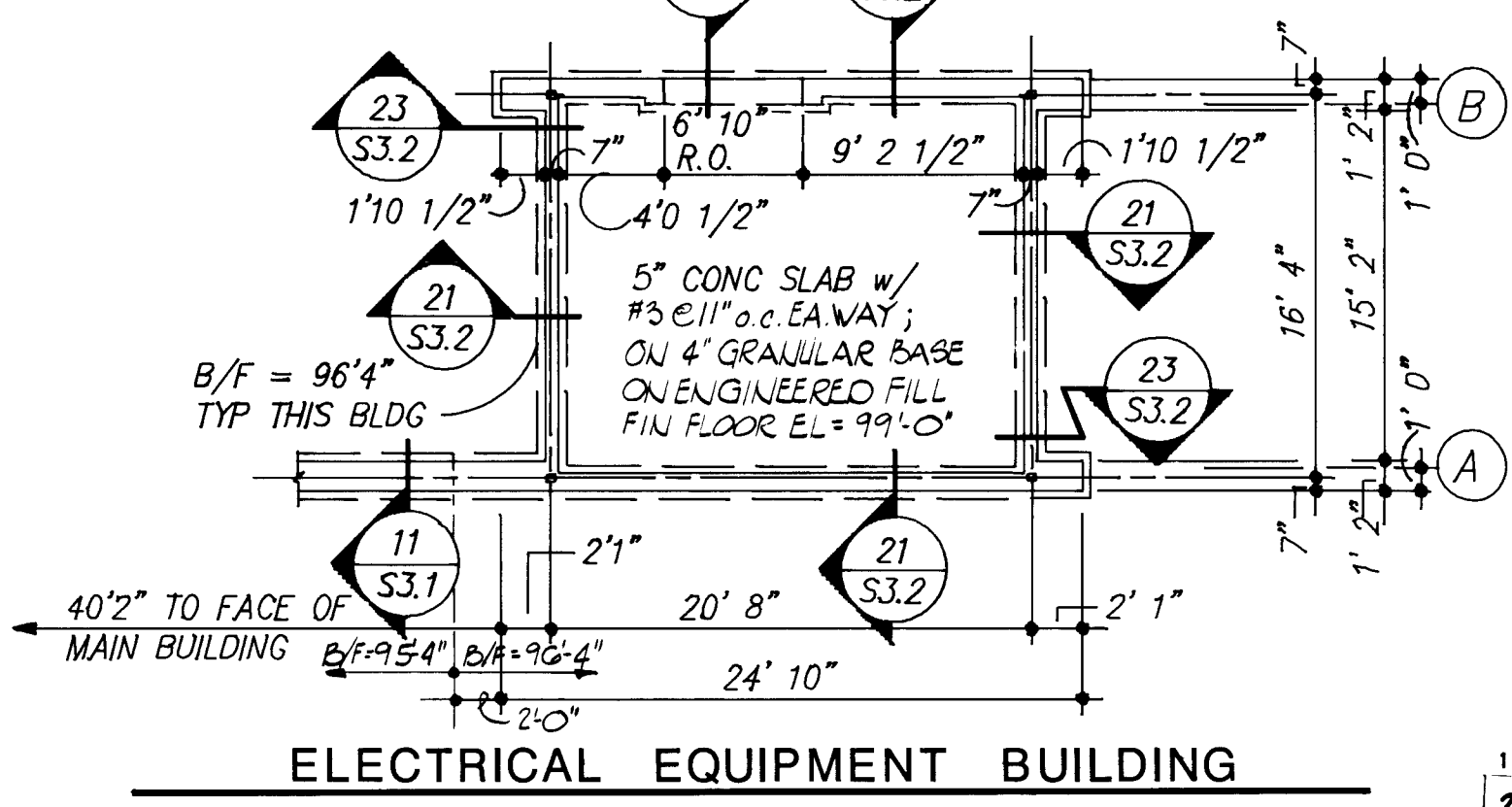
3132 SHEET 7 OF 41



FOUNDATION PLAN

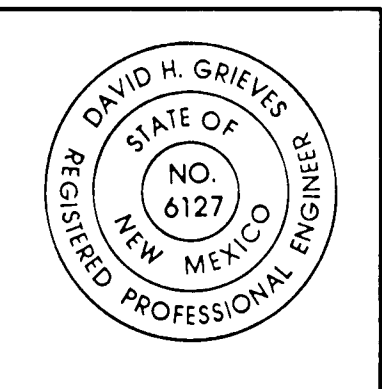
1/8" = 1'-0"

SPOT FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
SF1	3'0" x 5'0" x 12" DP	TOP MAT : 3 #4 L.W. ; 5 #4 S.W. BTM MAT : 4 #5 L.W. ; 5 #4 S.W.
SF2	3'0" x 6'0" x 14" DP	TOP MAT : 4 #6 L.W. ; 6 #4 S.W. BTM MAT : 2 #4 L.W. ; 6 #4 S.W.
SF3	4'0" x 7'0" x 16" DP	TOP MAT : 4 #4 L.W. ; 7 #4 S.W. BTM MAT : 5 #6 L.W. ; 7 #4 S.W.
SF4	2'8" x 2'8" x 12" DP	3 #4 EACH WAY
SF5	3'6" x 3'6" x 12" DP	4 #4 EACH WAY
SF6	2'6" x 2'6" x 12" DP	3 #4 EACH WAY
SF7	4'0" x 4'0" x 12" DP	4 #5 EACH WAY
SF8	3'0" x 3'0" x 12" DP	3 #4 EACH WAY



ELECTRICAL EQUIPMENT BUILDING

3132
26 31 32 09 89



ADDY & PRICKETT
ARCHITECTURE
PLANNING
INTERIOR DESIGN

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ALBUQUERQUE - NM 87102
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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

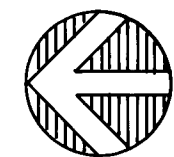
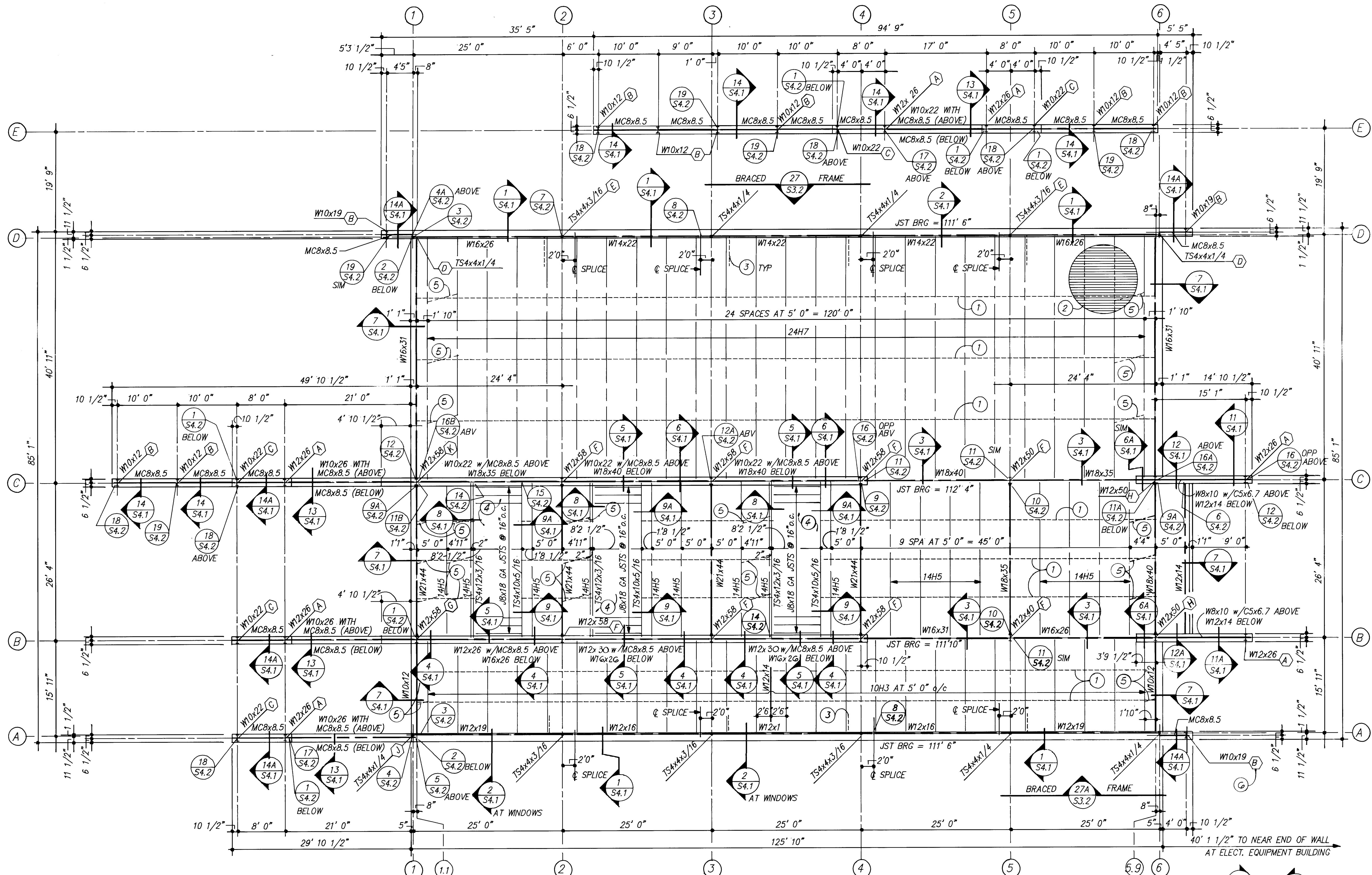
APPROVED: *[Signature]* DATE: 5/21/87

PROJECT: 86007
REVISIONS:

TITLE
ROOF FRAMING
PLAN
SHEET

S2.1

3132 SHEET 8 OF 41

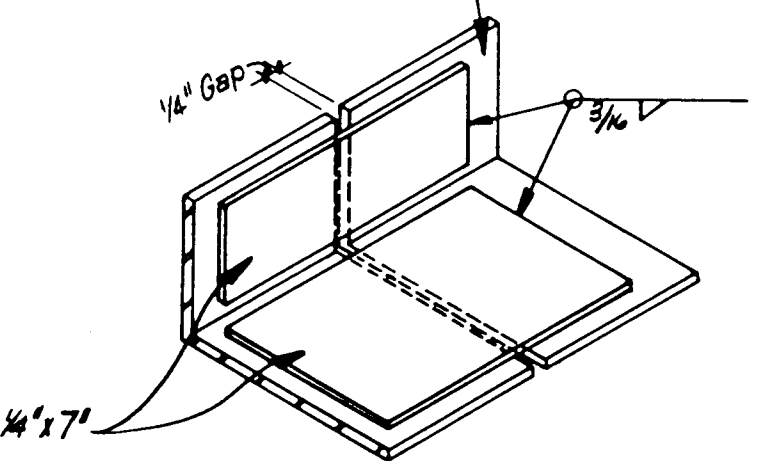


ROOF FRAMING PLAN

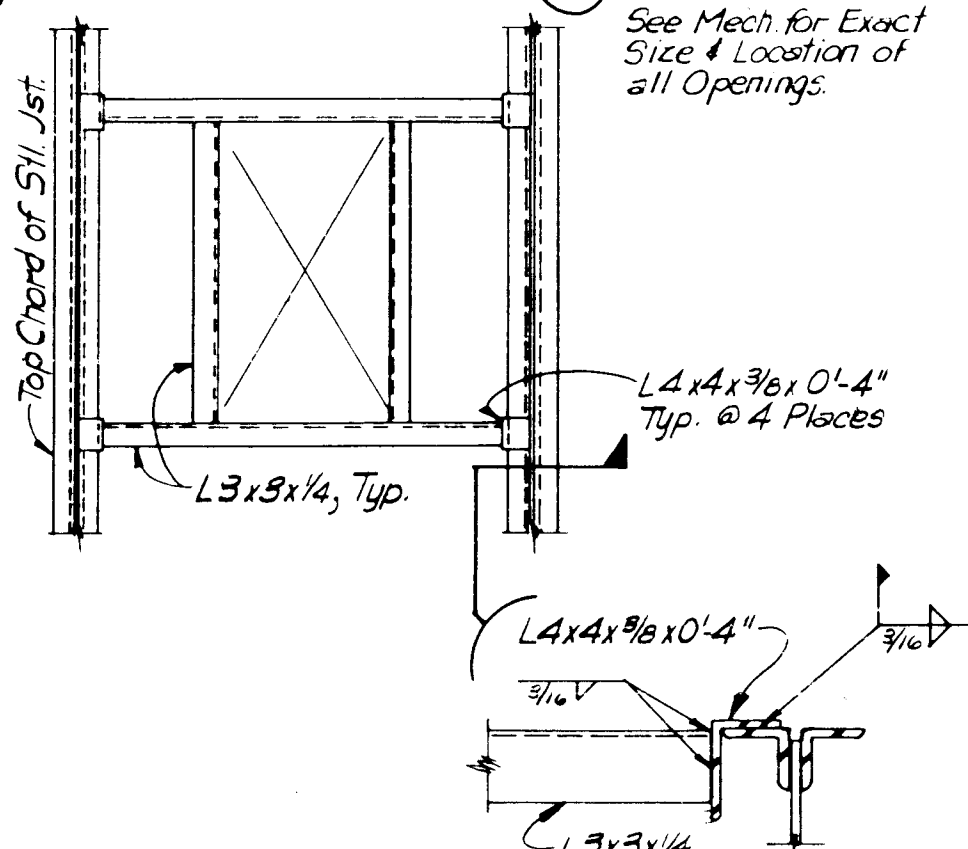
KEYED NOTES

1. L1X1X1/8 HORIZONTAL BRIDGING EQUALLY SPACED AS SHOWN. WELD TO TOP AND BOTTOM CHORD OF JOISTS.
2. 1-1/2" TYP B, 22 GA. PAINTED METAL DECK. ATTACH DECK TO SUPPORT W/ 5/8" P UDDLE WELDS @ 12" O.C. FASTEN SIDELAPS TOGETHER W/ #12 TKS @ 12" O.C.
3. L3X3X1/4 BOTTOM FLANGE BRACING. WELD TO BOTTOM FLANGE OF BEAM AND TOP CHORD OF NEAREST JOIST. SEE DETAIL 1/54.1.
4. 1" TYPE 1, OC, 26 GA. METAL DECK. ATTACH DECK TO SUPPORT W/ 5/8" P UDDLE WELDS @ 12" O.C. FASTEN SIDELAPS TOGETHER W/ #12 TKS @ 12" O.C.
5. L1X1X1/8 CROSS BRIDGING EQUALLY SPACED AS SHOWN. WELD TO TOP & BOTTOM CHORD OF JOISTS.
6. O INDICATES BASE PLATE MARK - SEE SHEET 53.2 FOR DETAILS

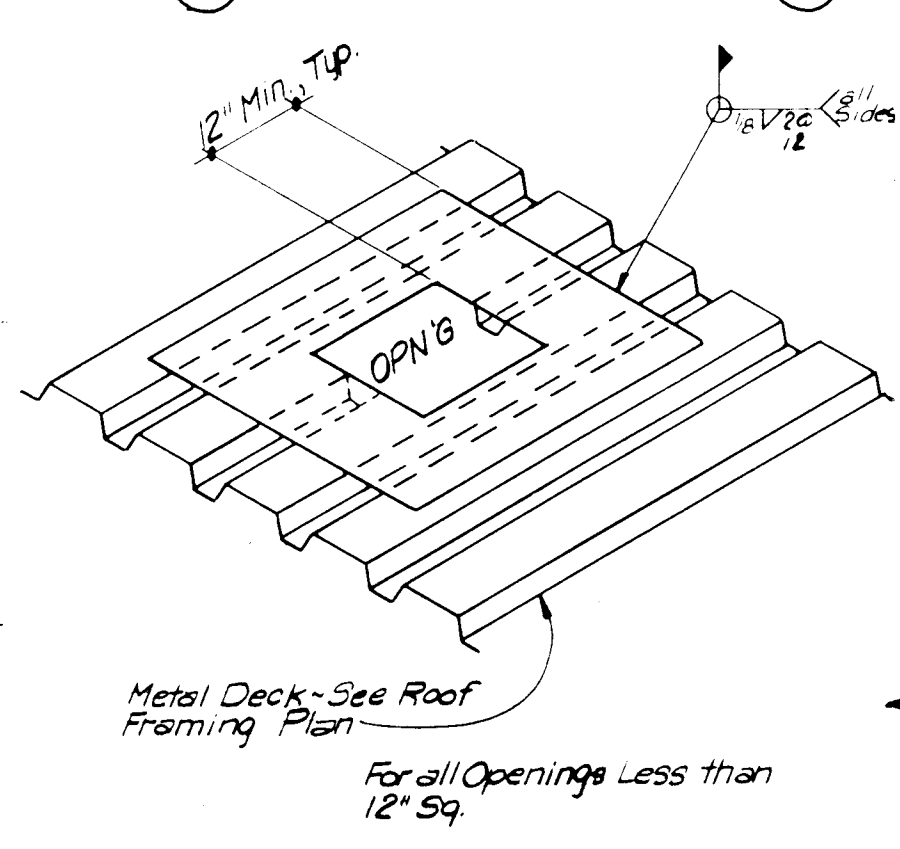
Cont Perimeter L- See Plan & Sects for Size



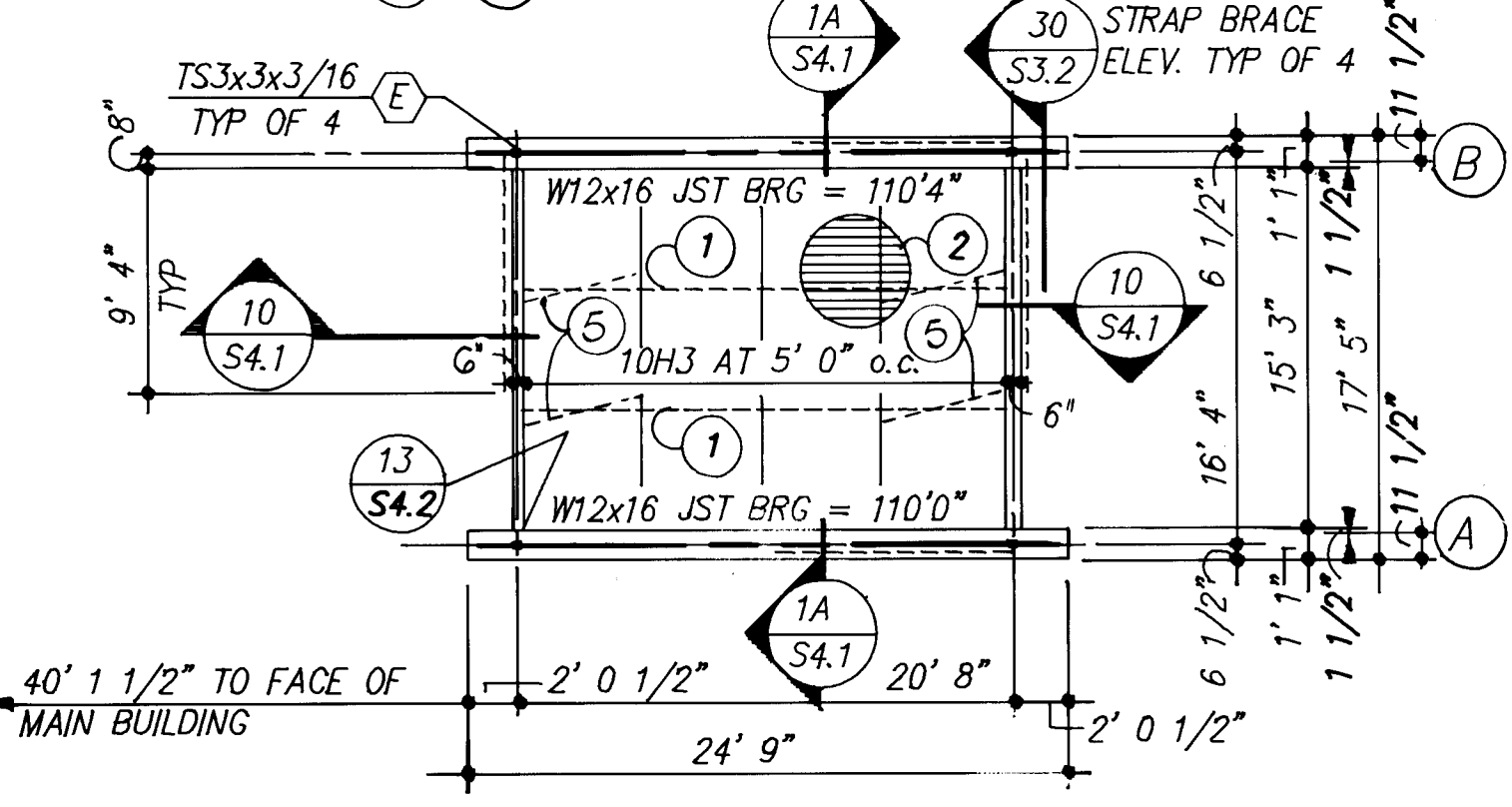
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TYP PERIMETER ANGLE SPLICE



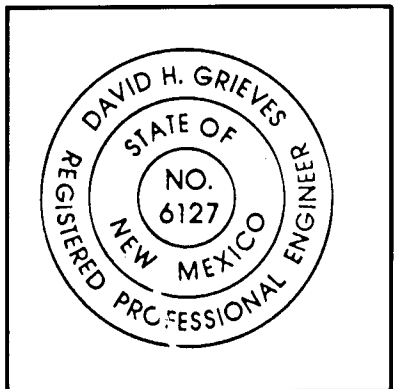
TYP ROOF OPENING DETAILS



NO SCALE



ELECTRICAL EQUIPMENT BUILDING



ADDY & PRICKETT
ARCHITECTURE
PLANNING
INTERIOR DESIGN

109-EDITH-SE
ALBUQUERQUE-NM-8702
505-842-6370

FLIGHT SERVICE STATION BUILDING

ALBUQUERQUE INTERNATIONAL AIRPORT

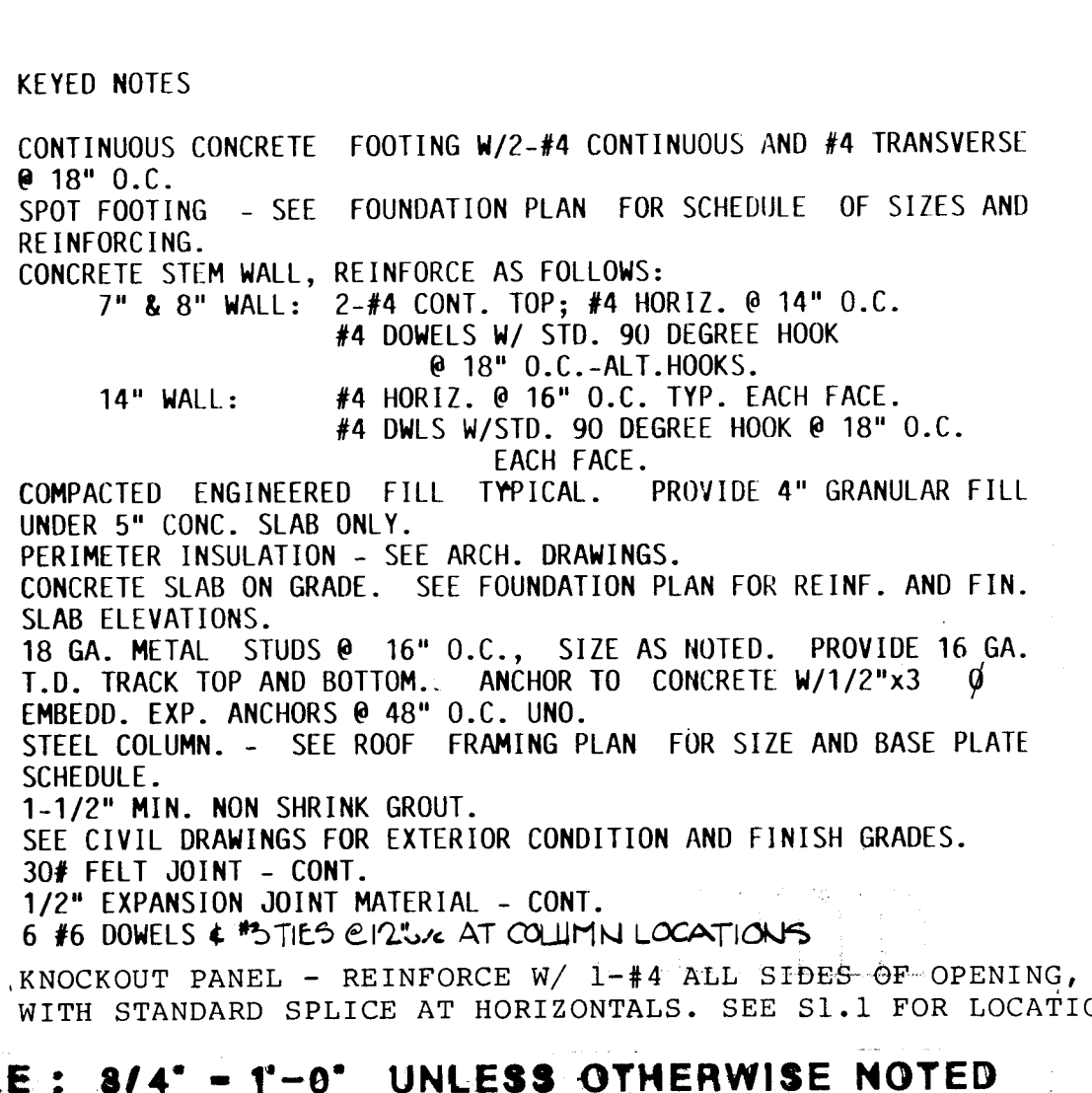
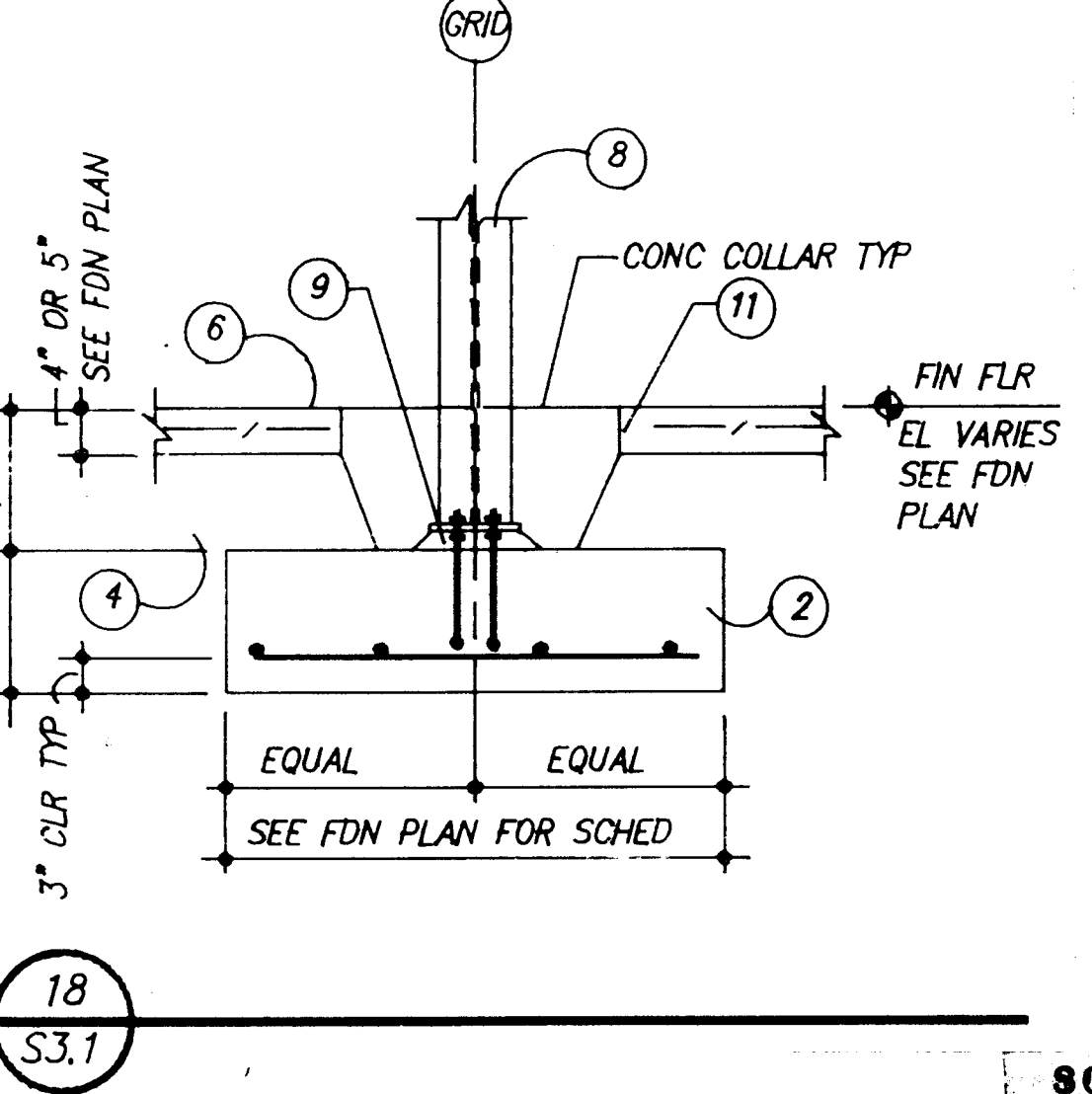
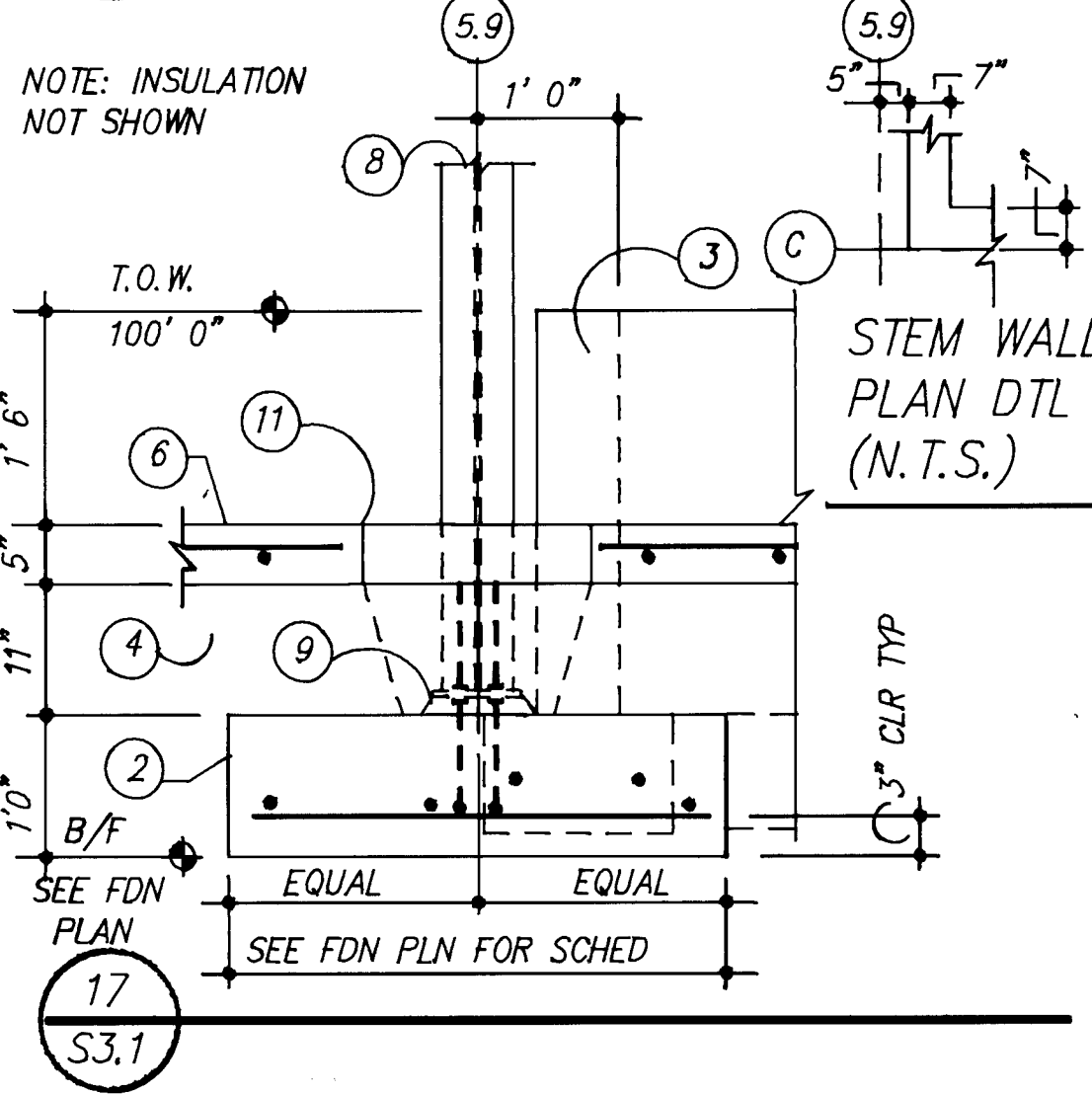
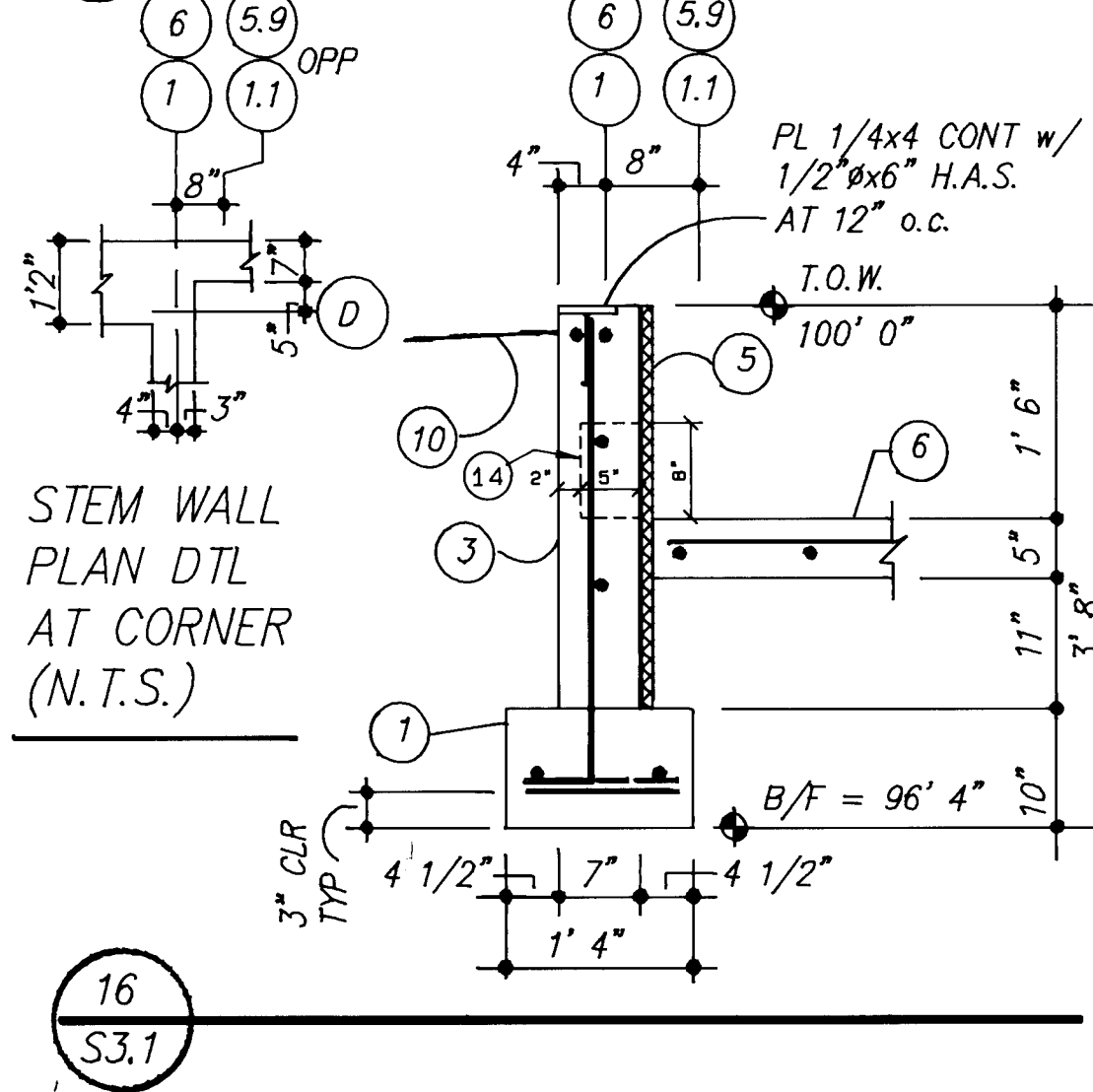
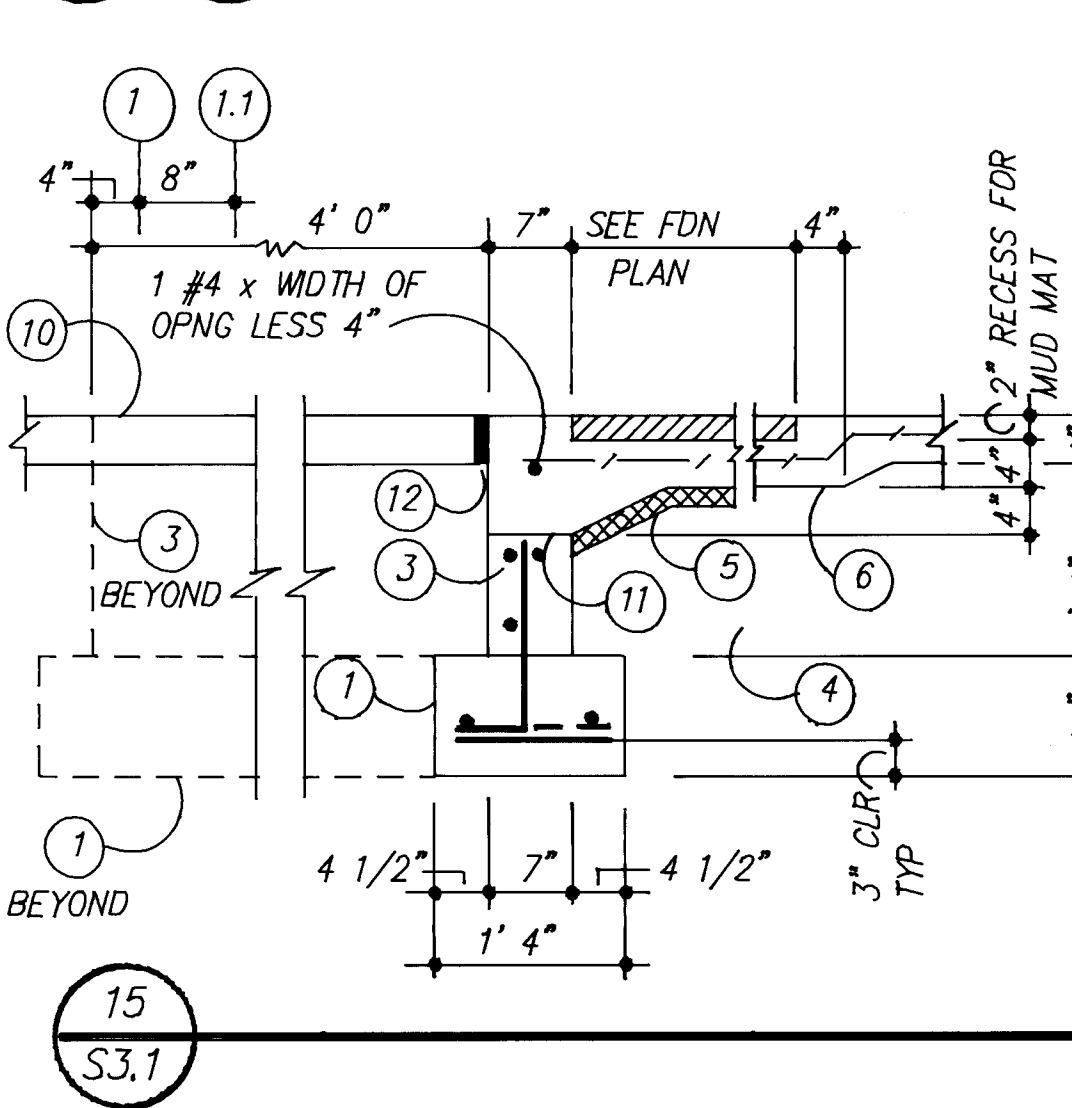
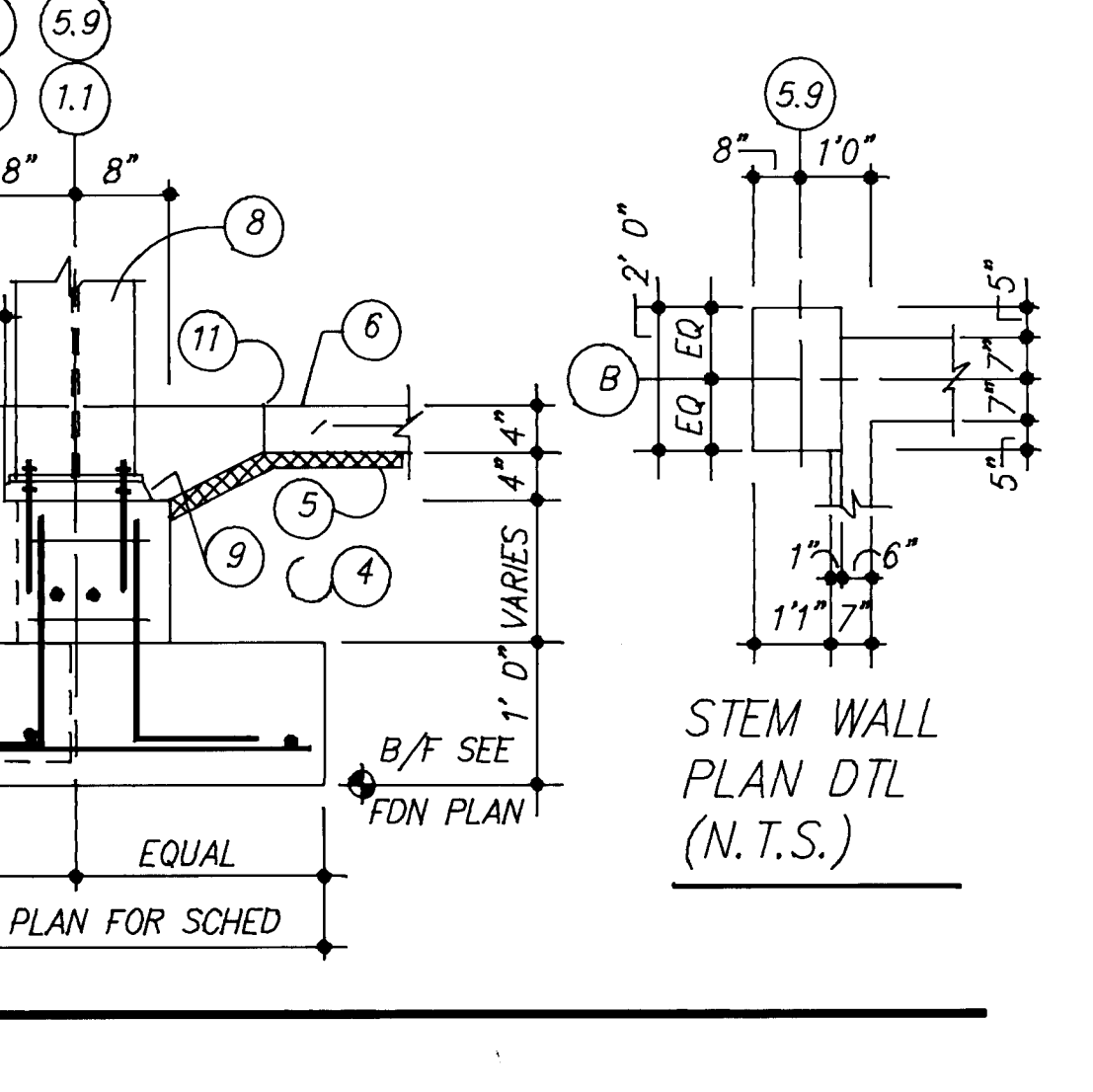
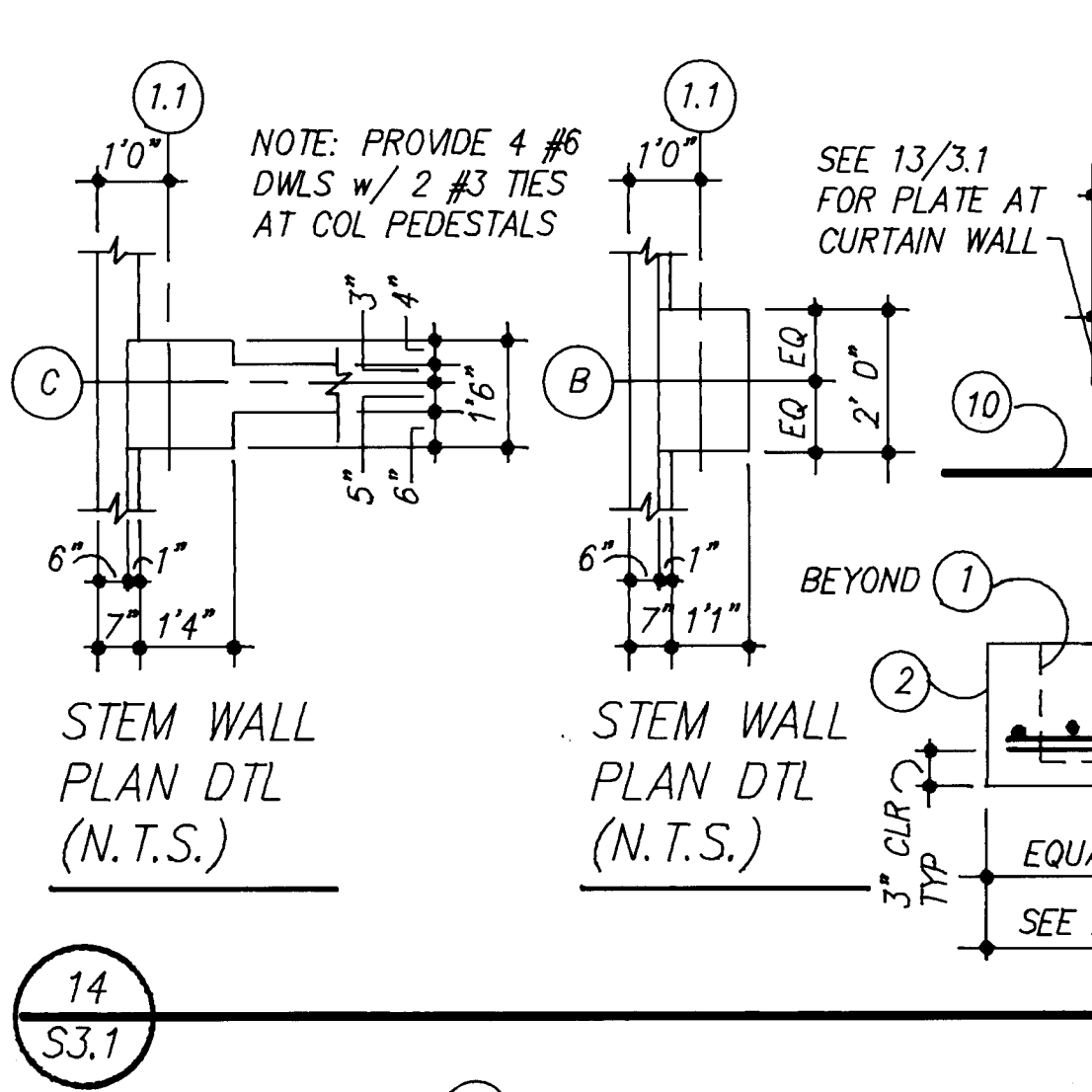
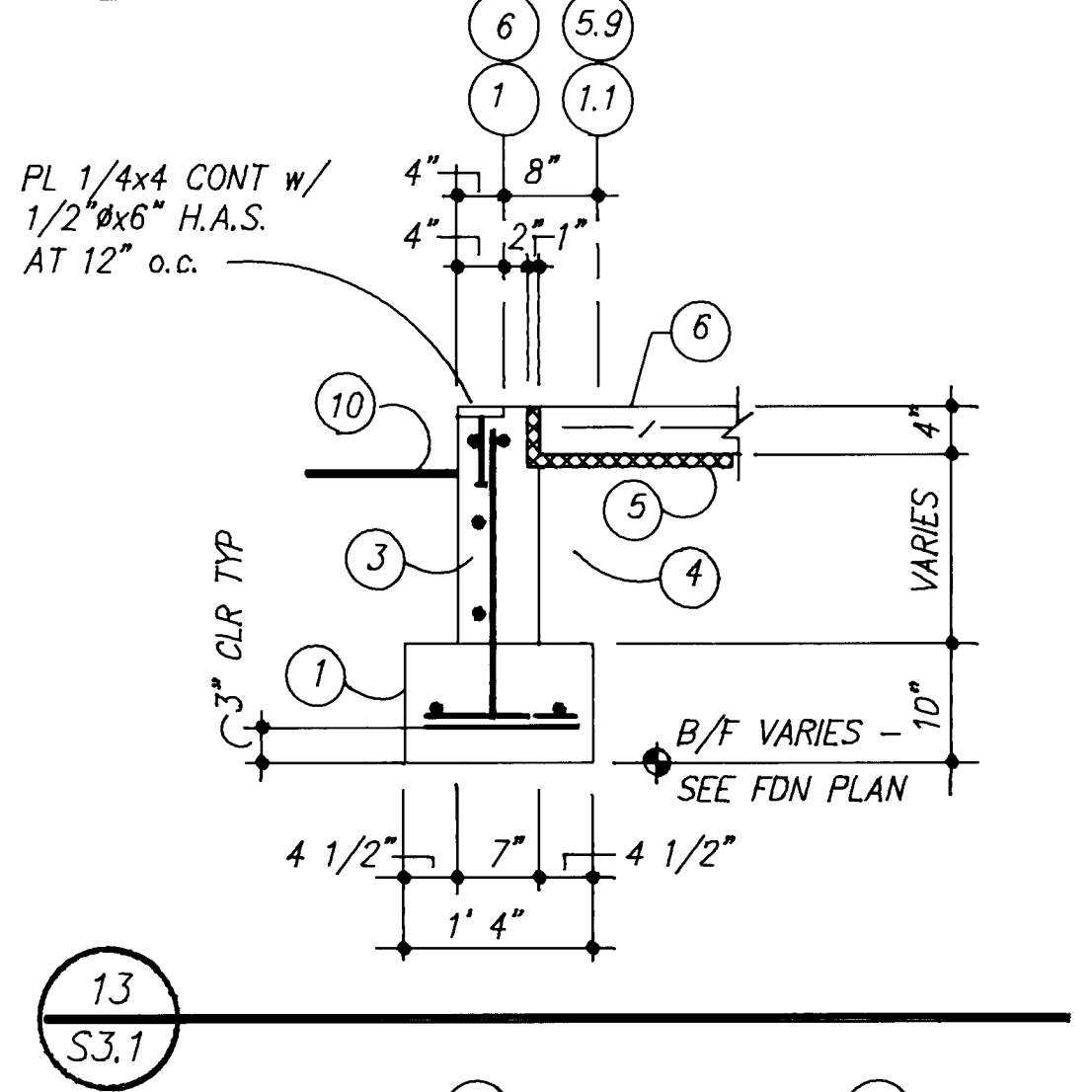
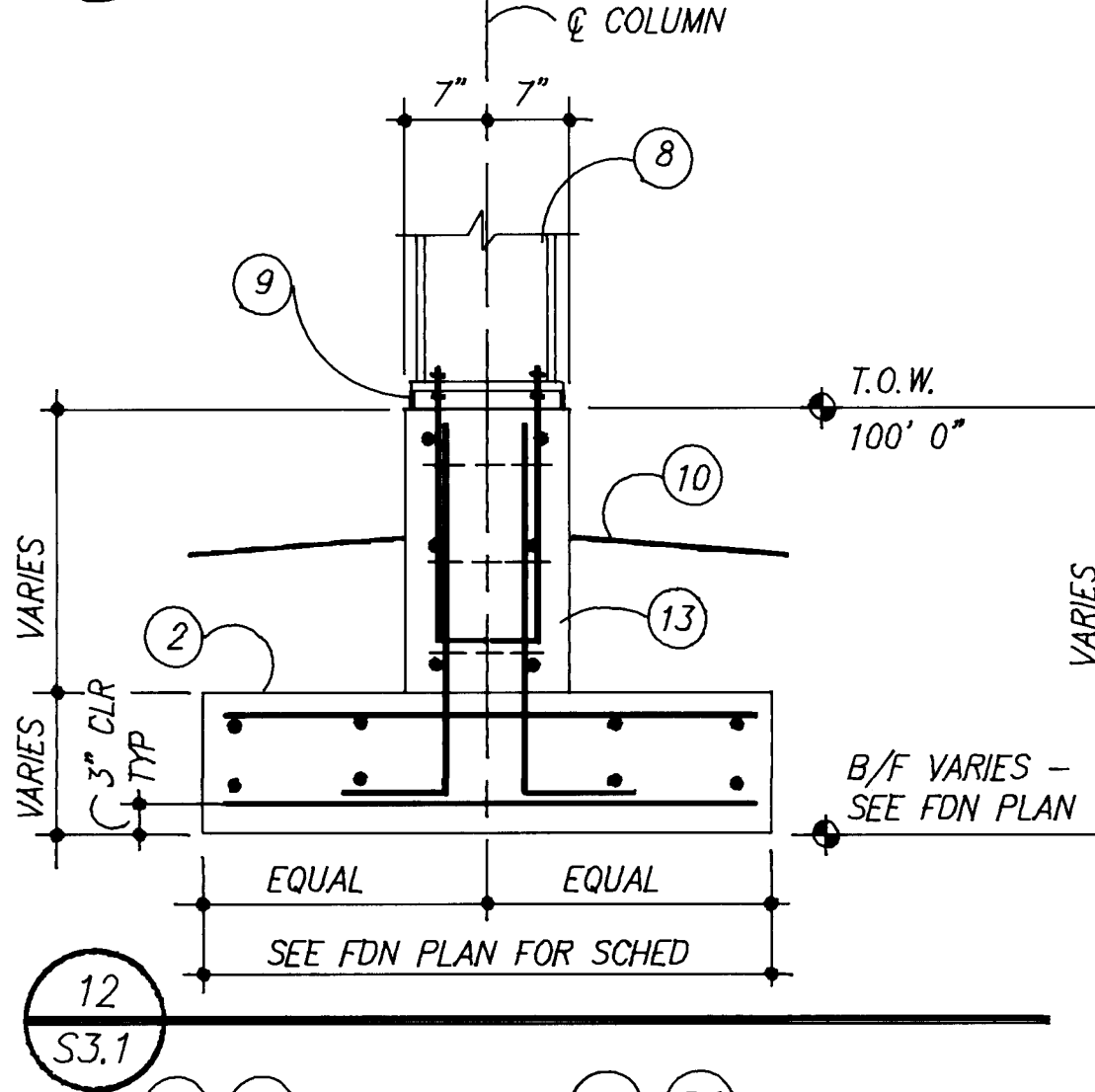
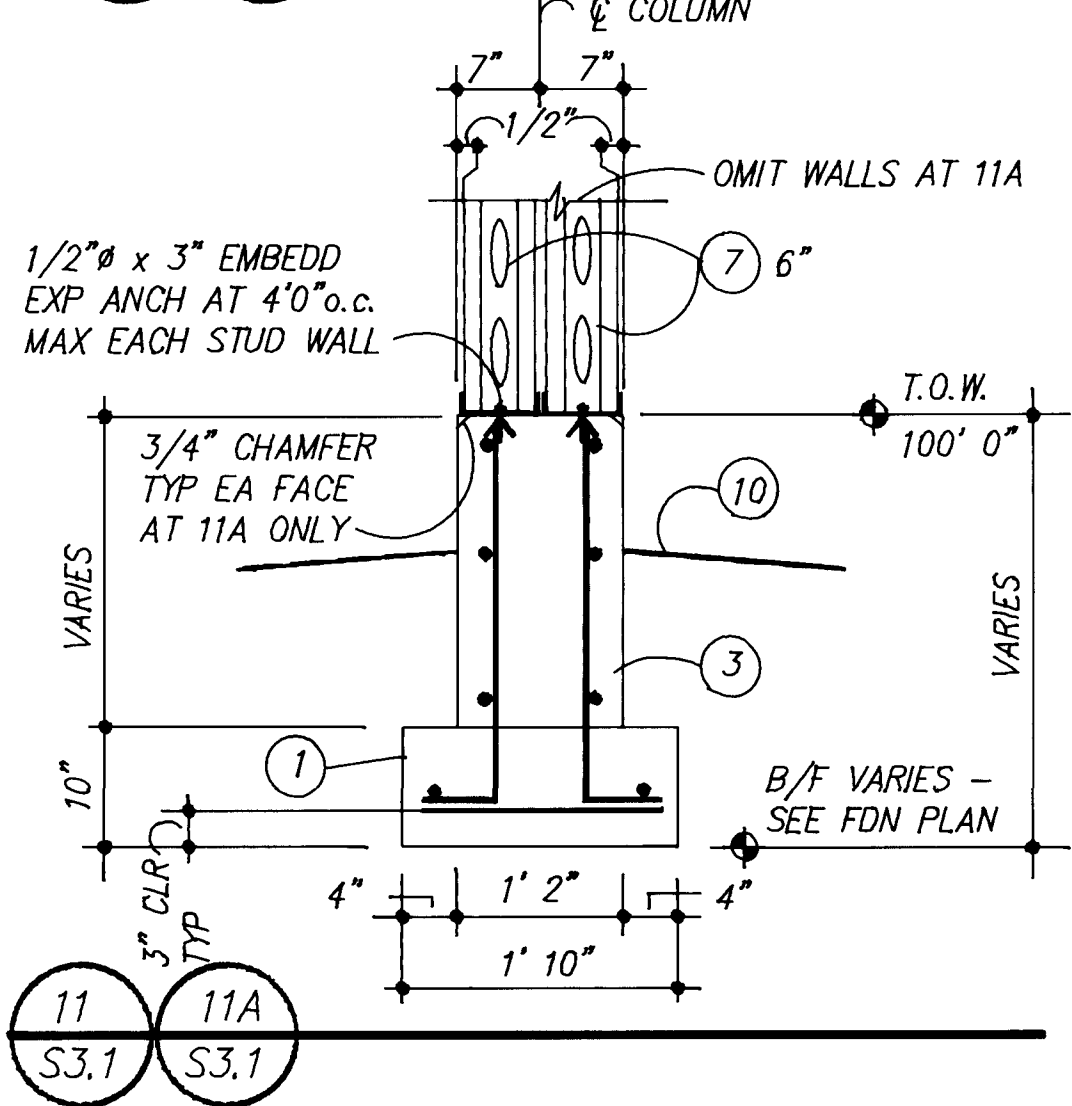
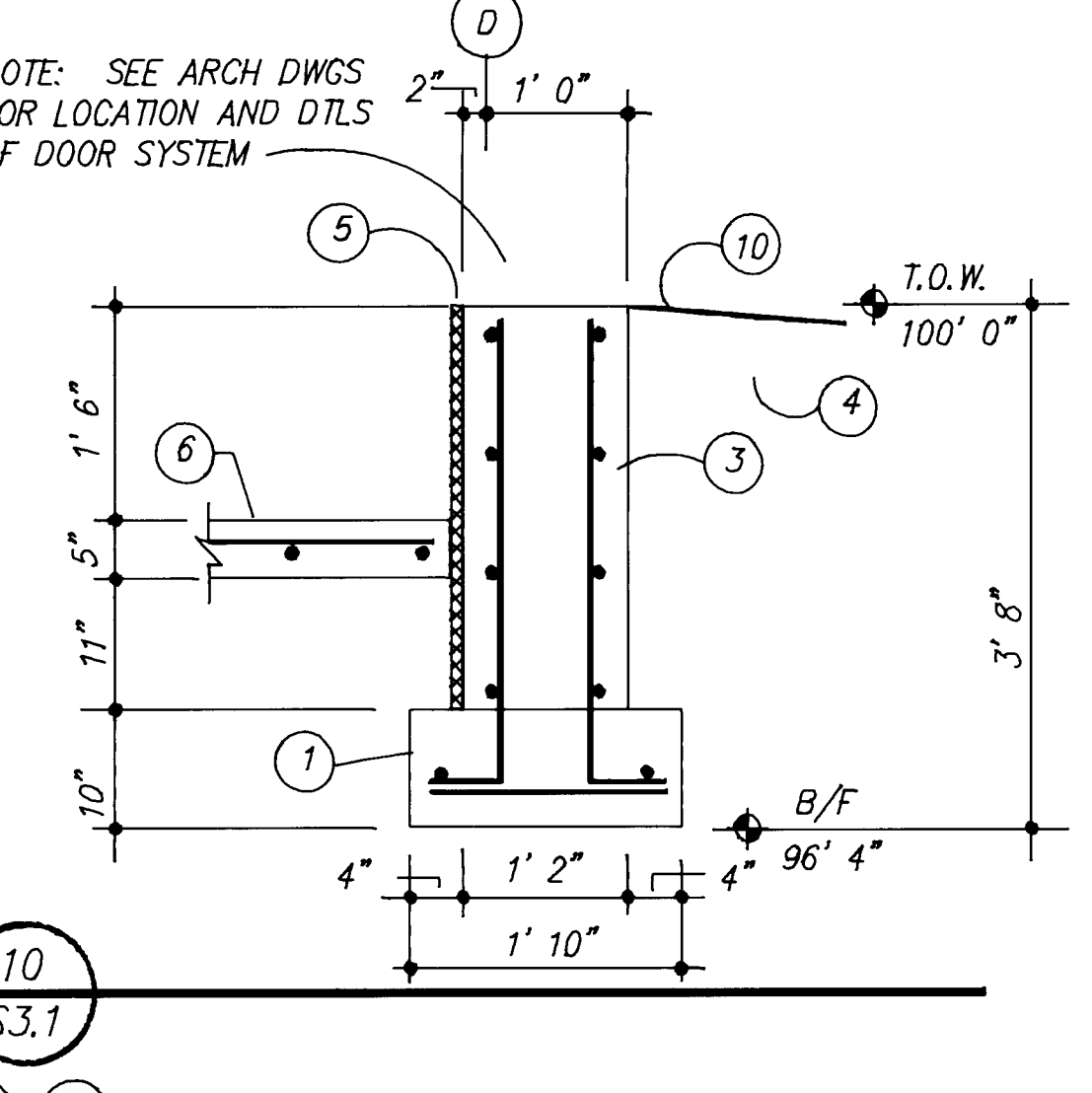
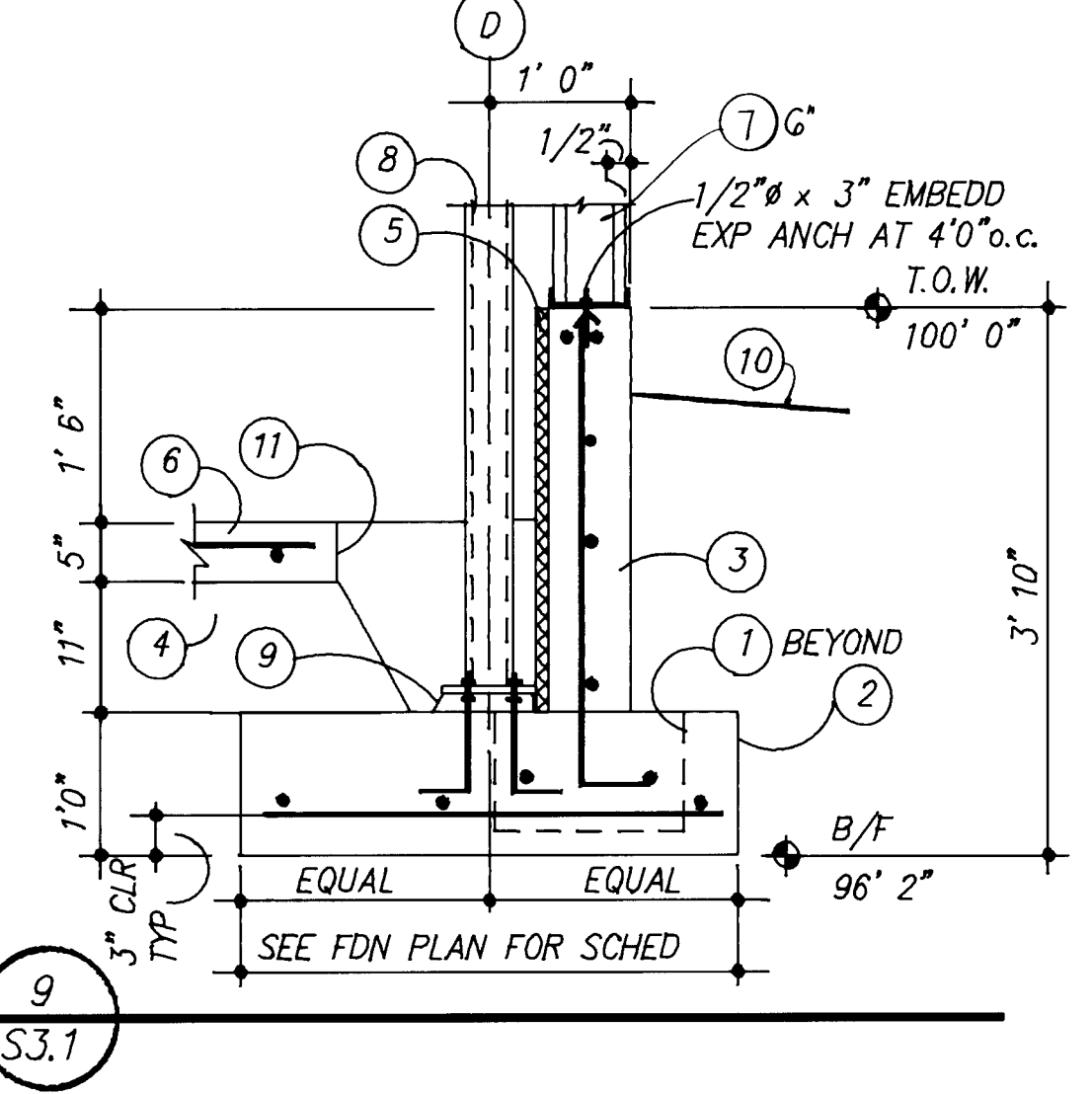
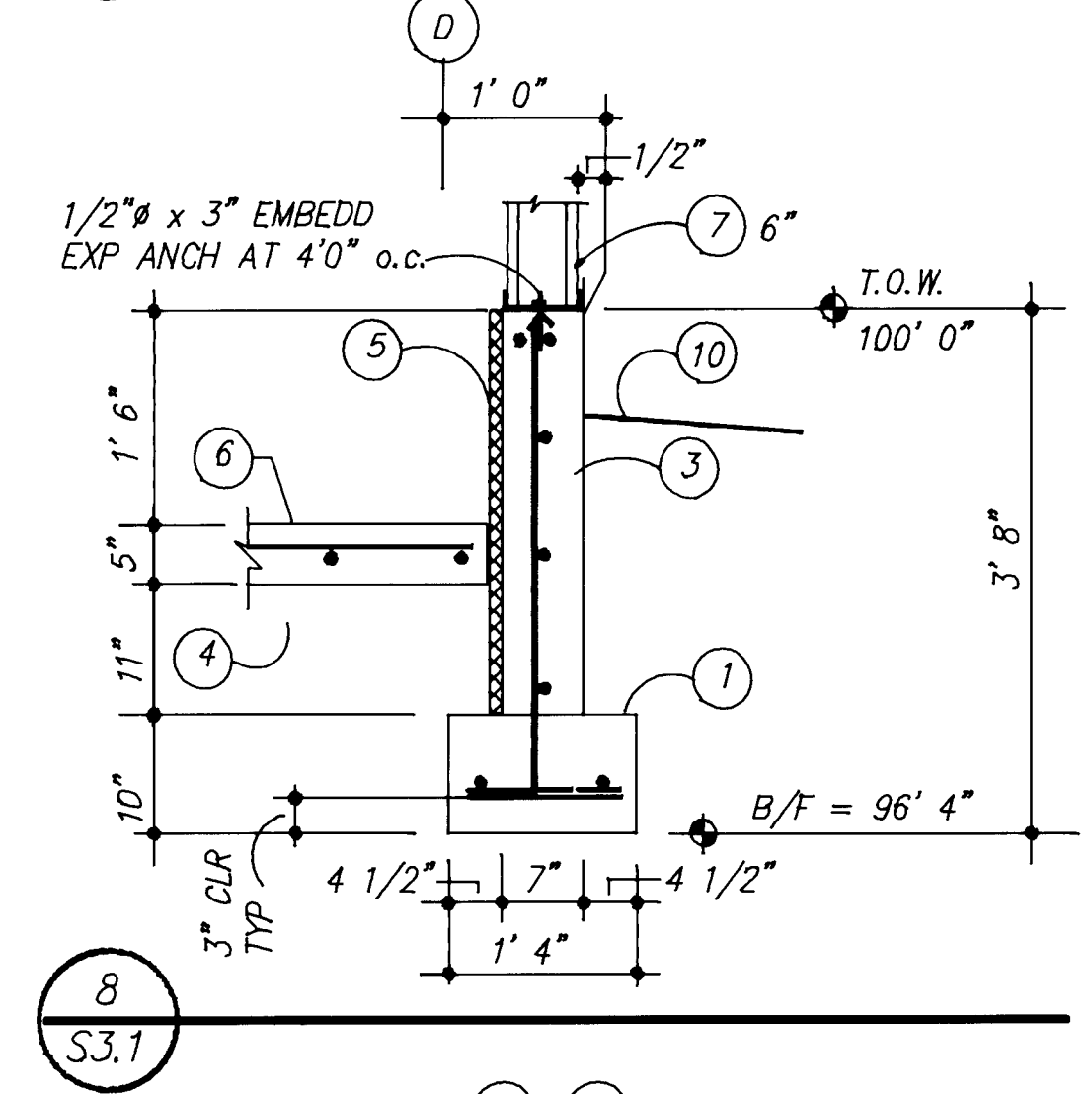
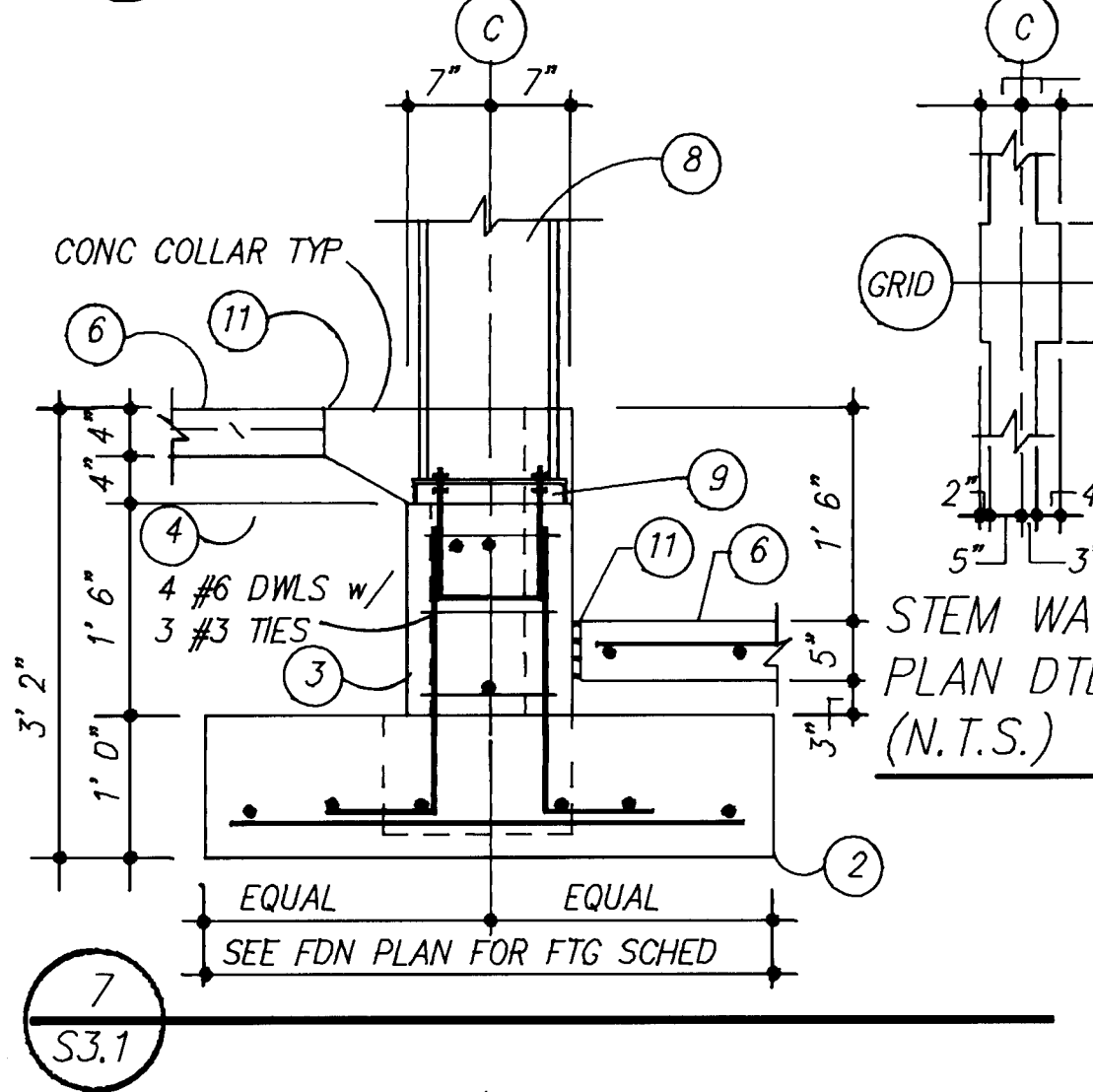
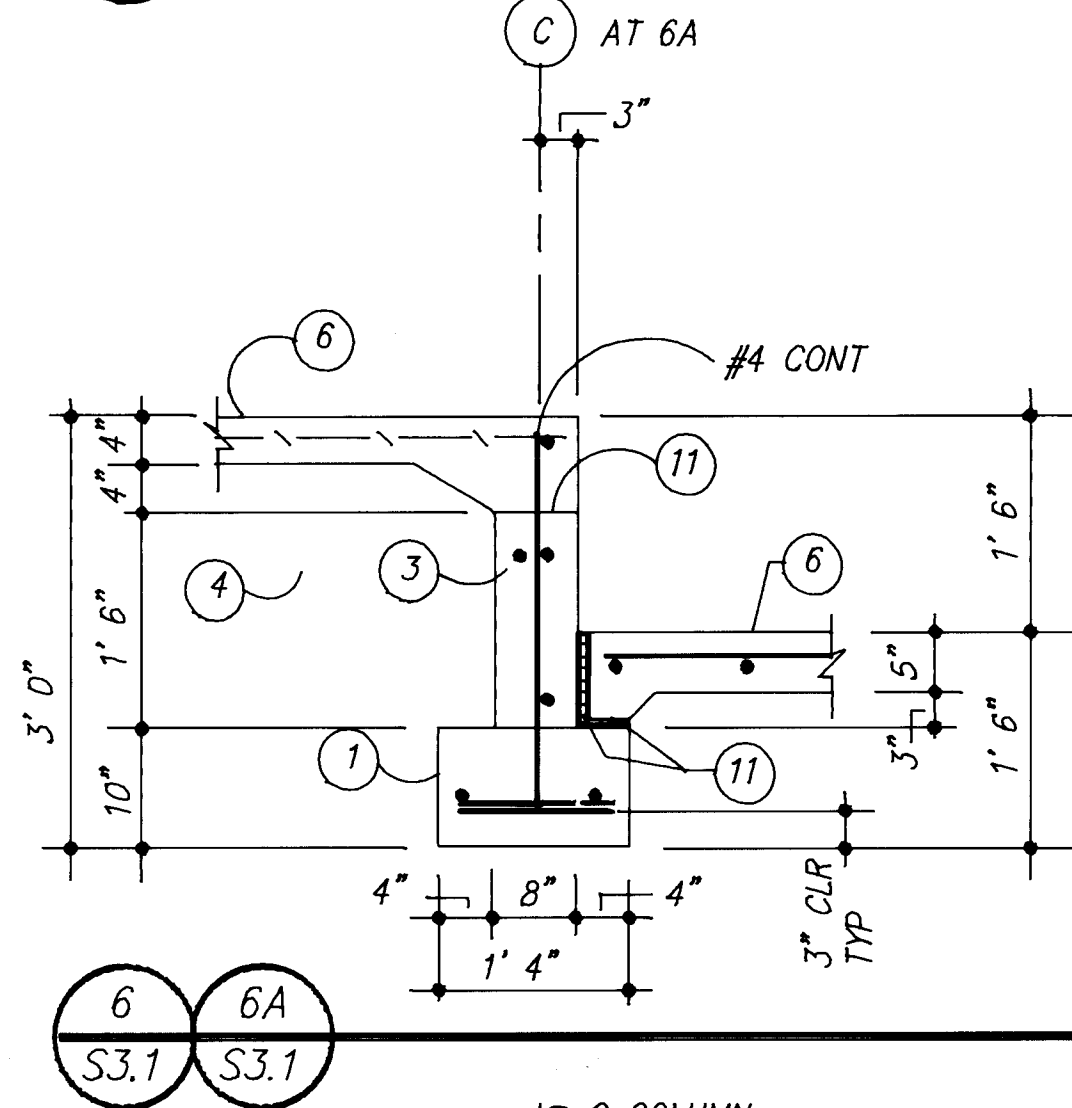
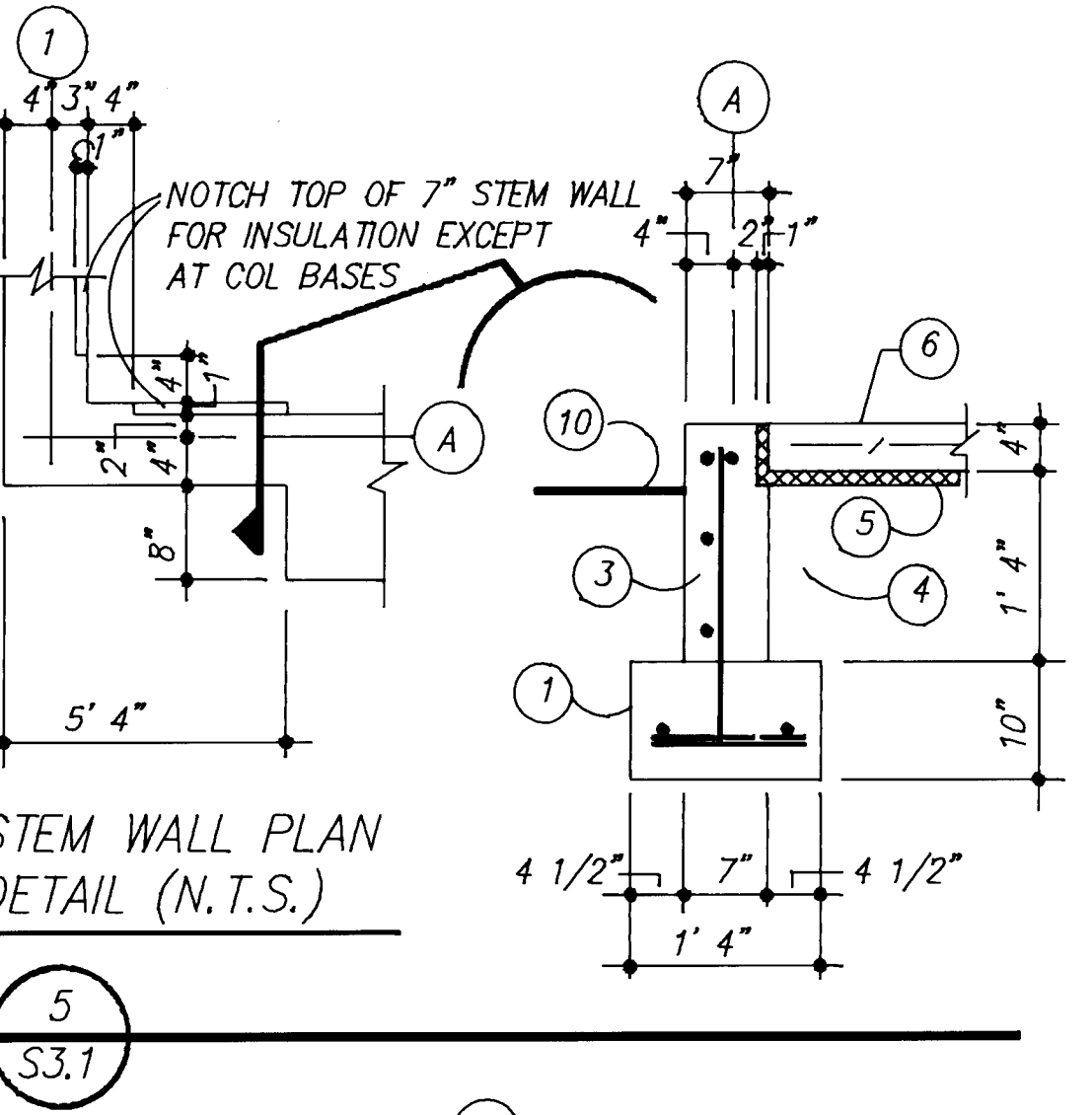
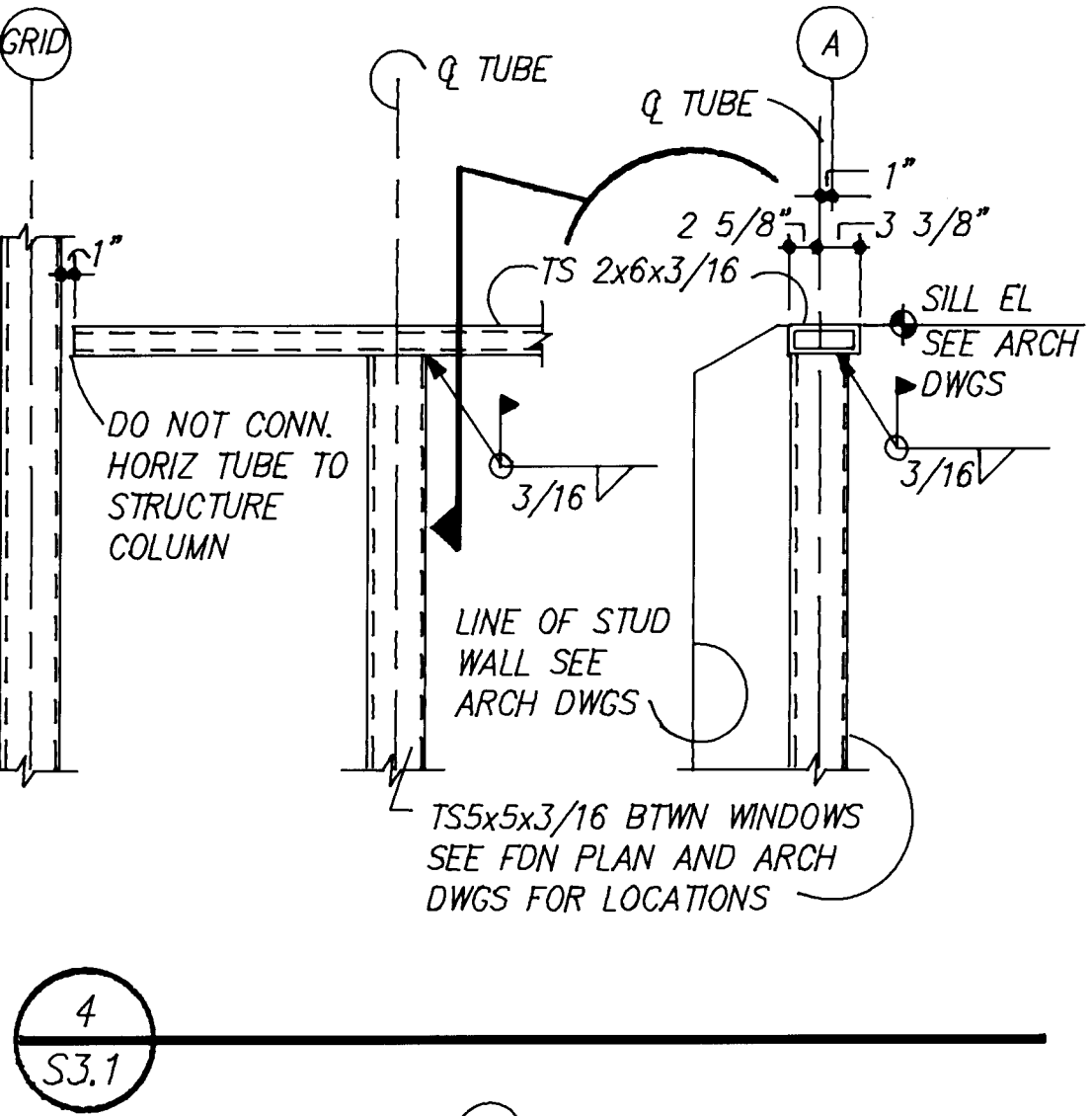
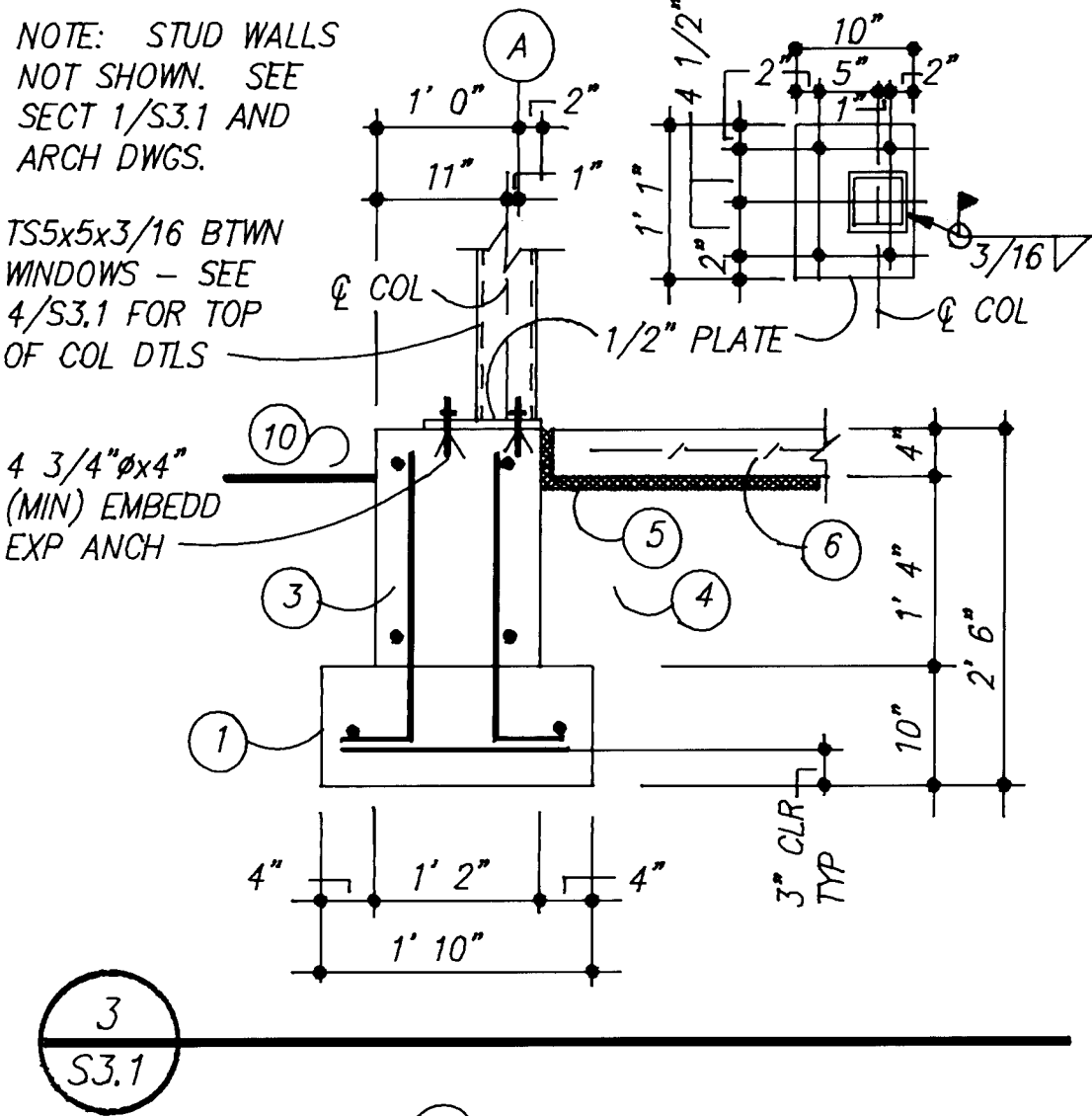
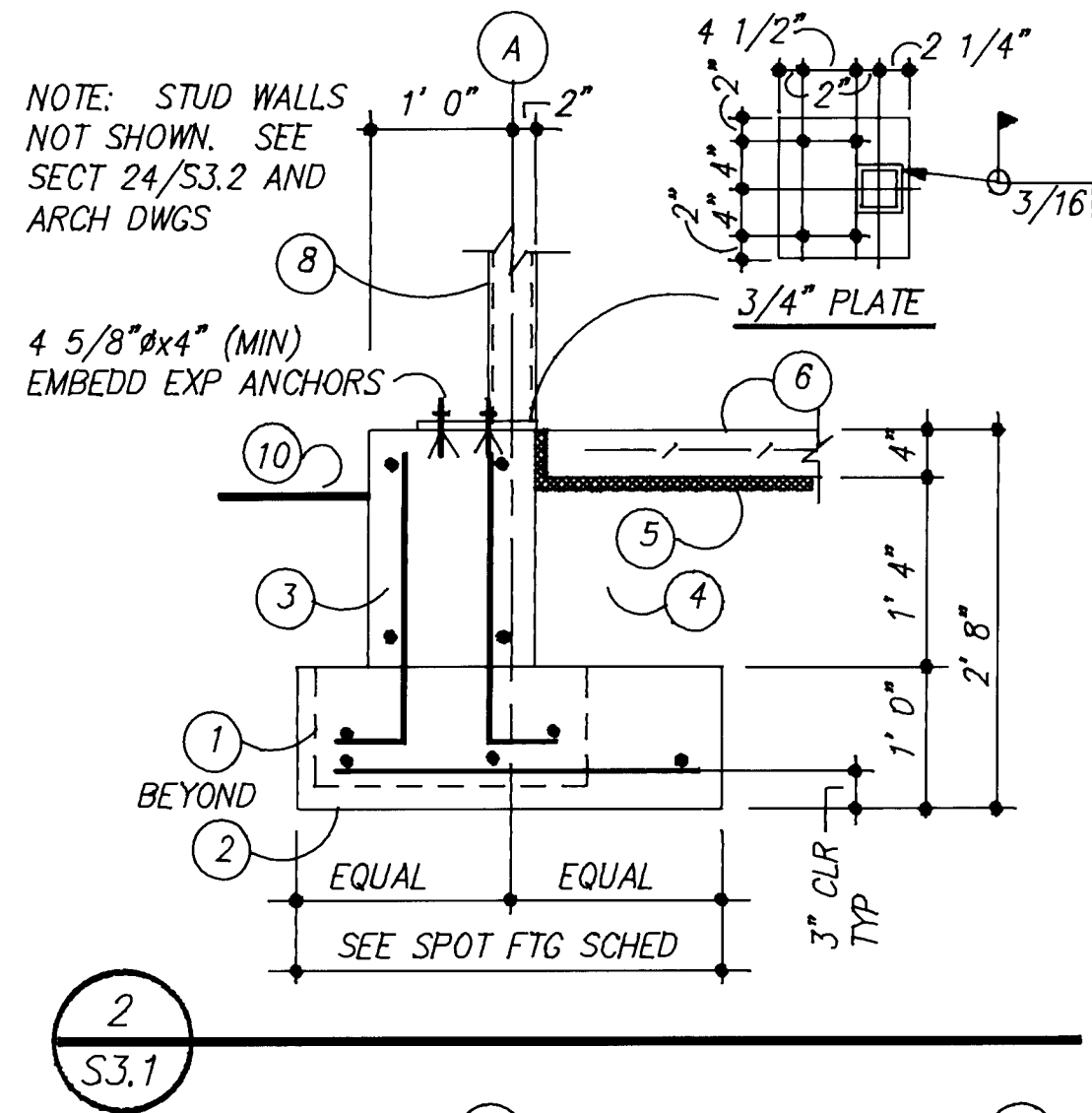
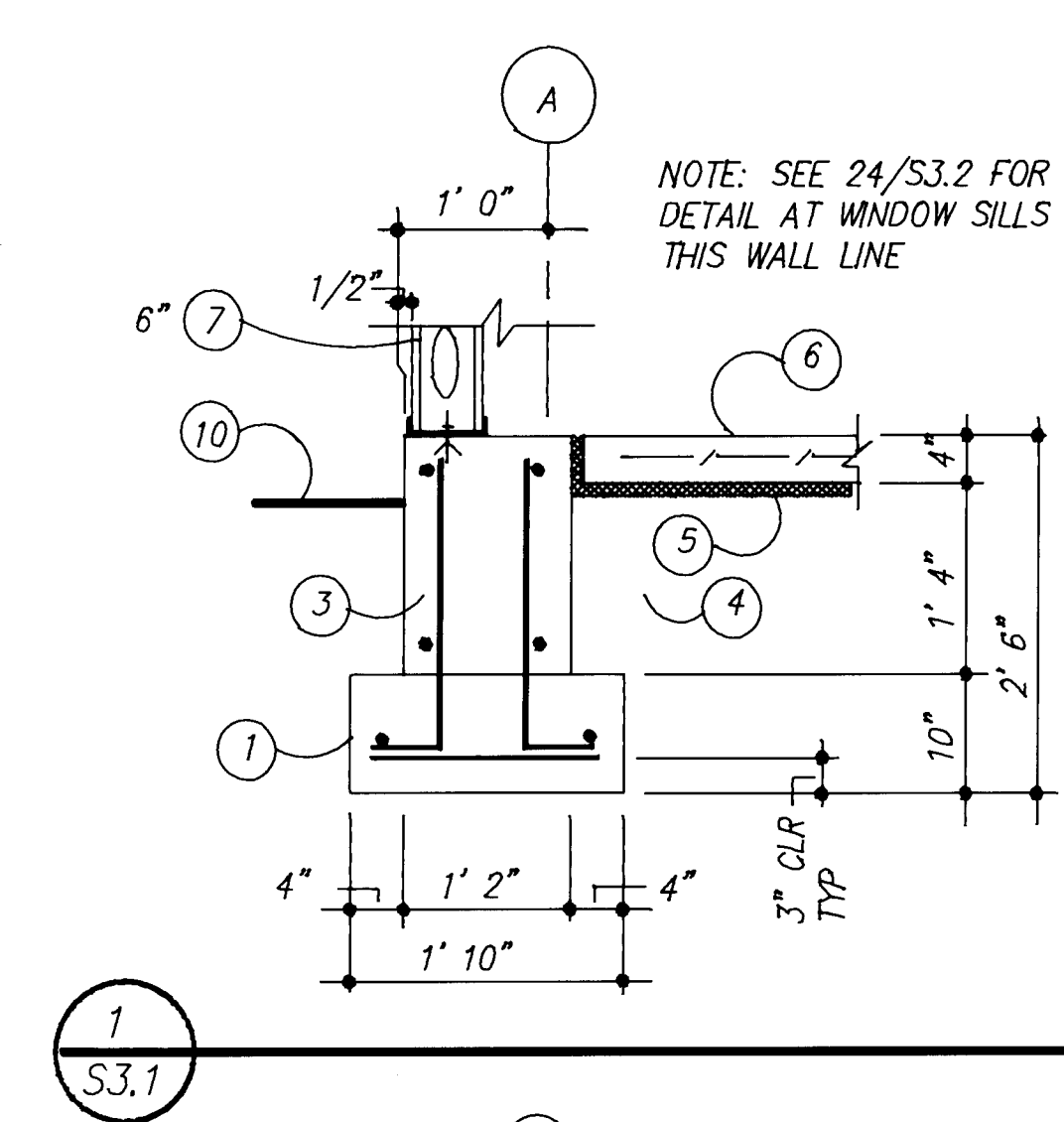
For Alamy 4/10/87
APPROVED DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
FOUNDATION
DETAILS
SHEET

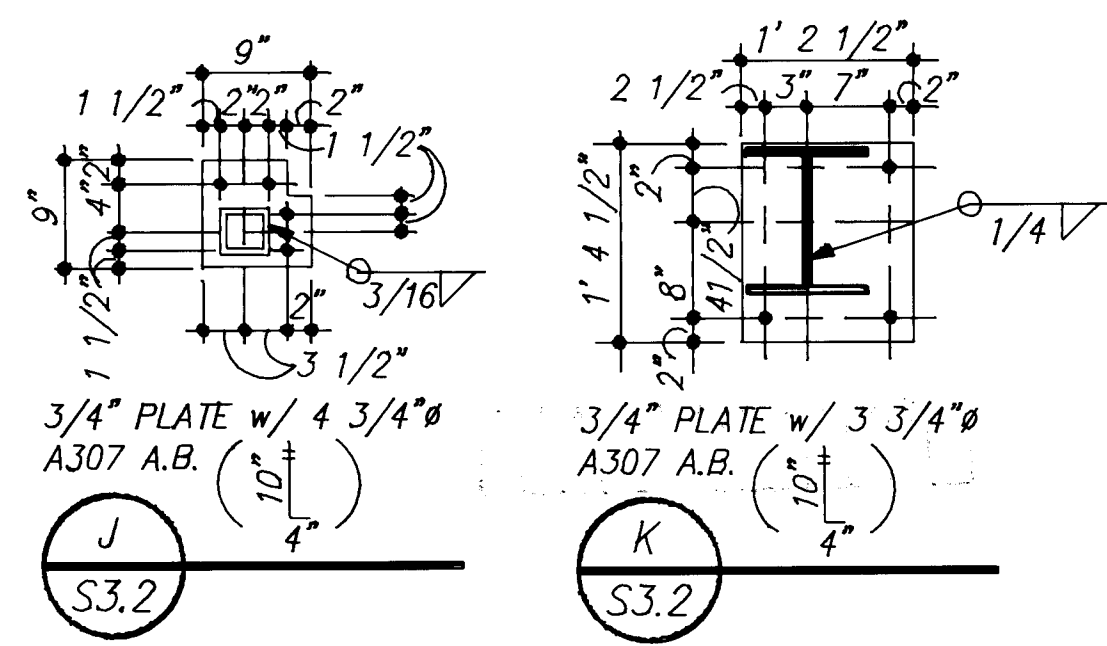
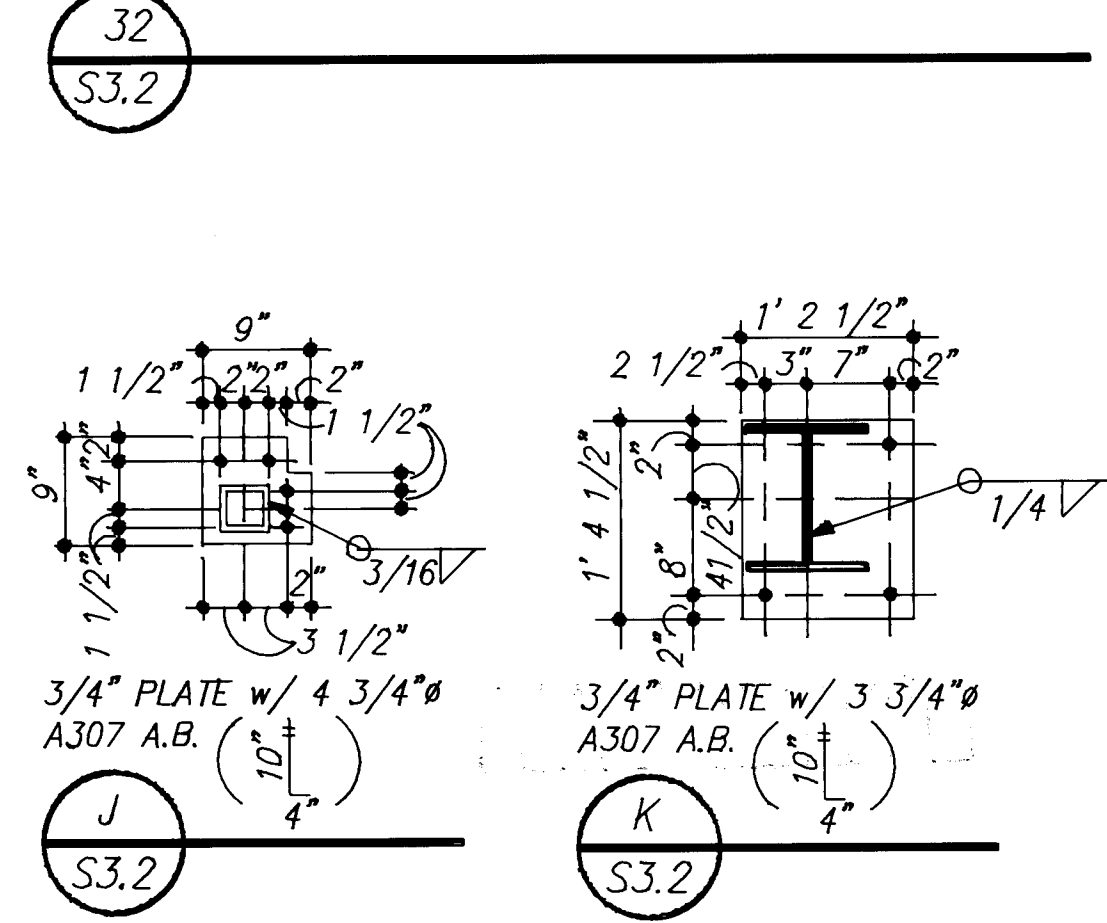
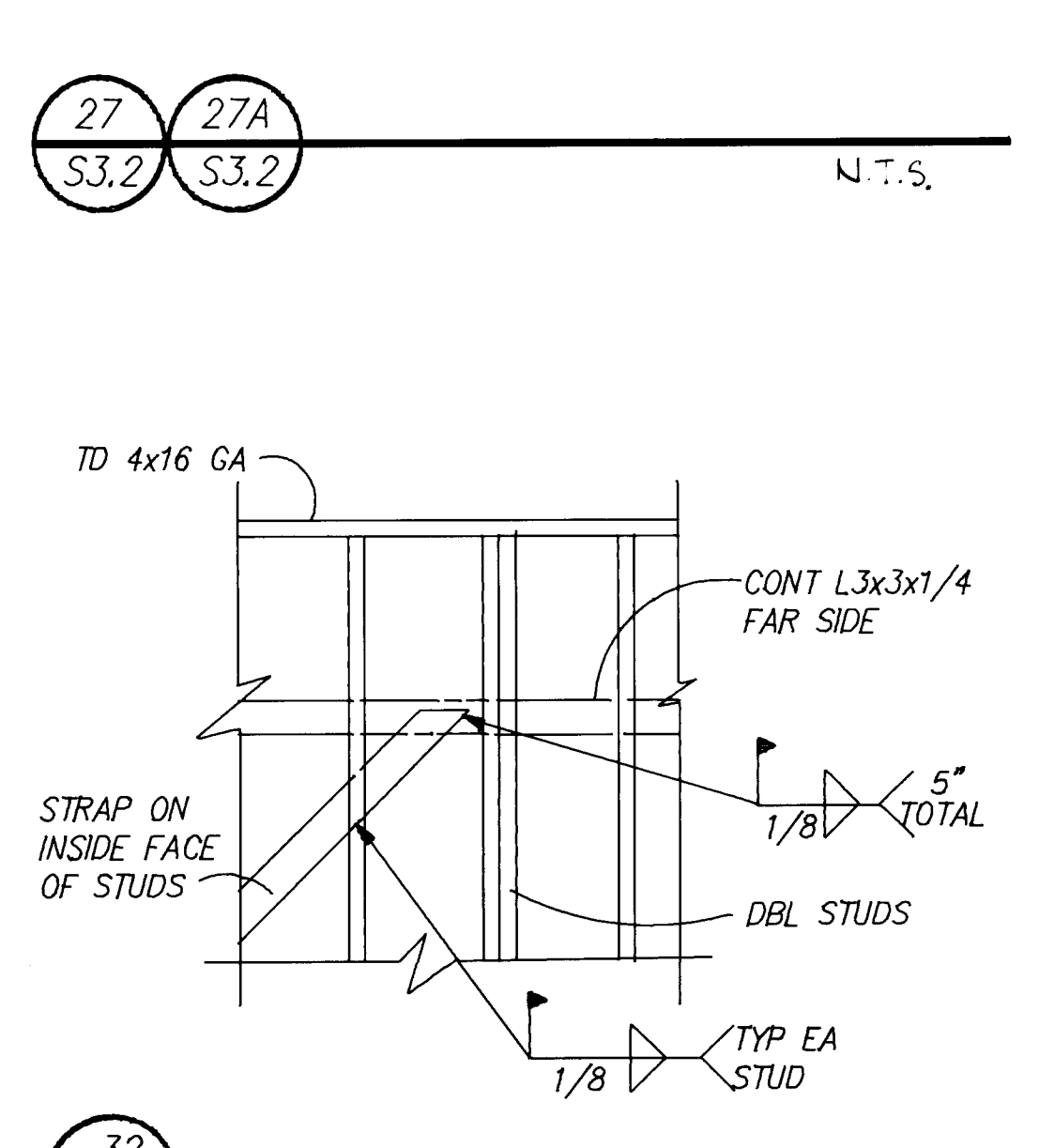
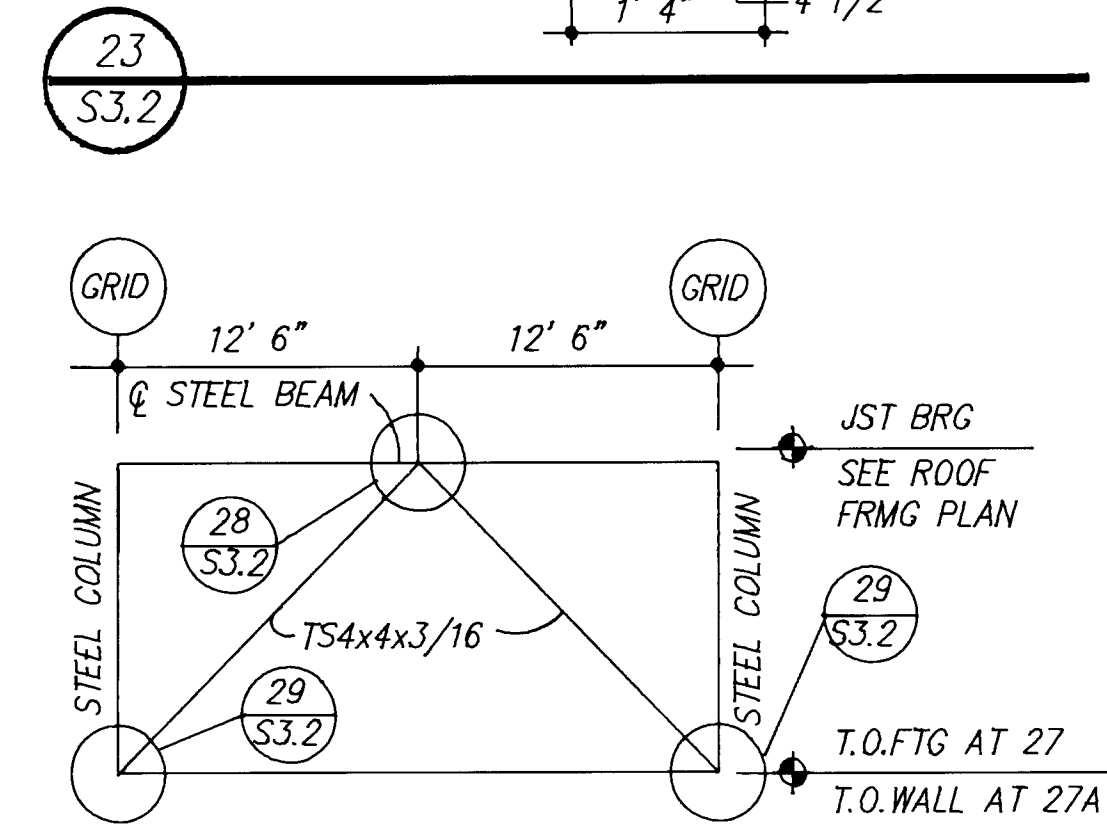
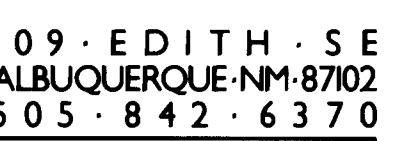
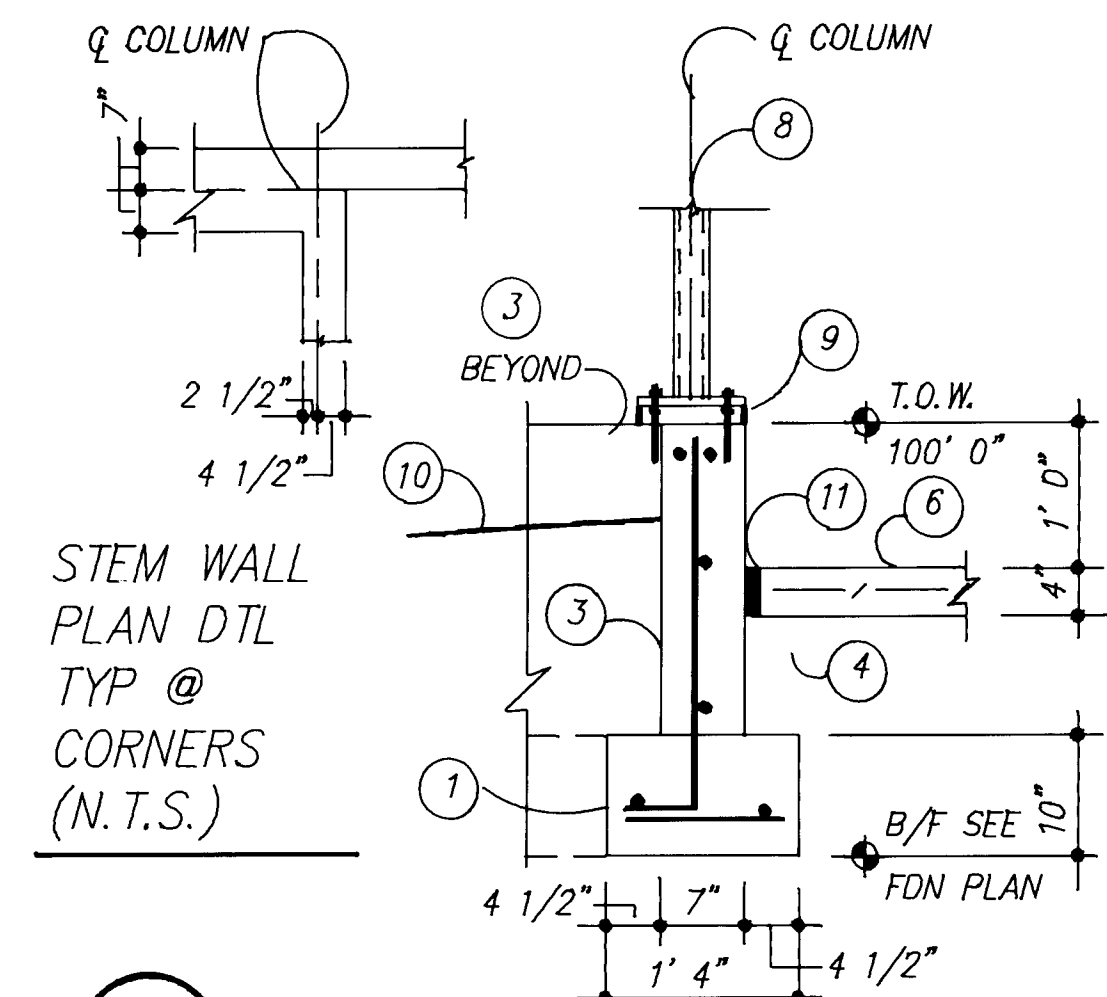
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SHEET 9 OF 41



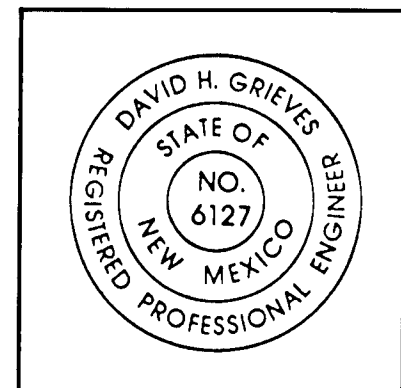
- KEYED NOTES
1. CONTINUOUS CONCRETE FOOTING W/2-#4 CONTINUOUS AND #4 TRANSVERSE @ 18" O.C.
 2. SPOT FOOTING - SEE FOUNDATION PLAN FOR SCHEDULE OF SIZES AND REINFORCING.
 3. CONCRETE STEM WALL, REINFORCE AS FOLLOWS:
2-#4 CONT. TOP; #4 HORIZ. @ 14" O.C.
#4 DOMELS W/ STD. 90 DEGREE HOOK @ 18" O.C.-ALT.HOOKS.
14" WALL: #4 HORIZ. @ 16" O.C. TYP. EACH FACE.
#4 DWS W/STD. 90 DEGREE HOOK @ 18" O.C. EACH FACE.
 4. COMPACTED ENGINEERED FILL TYPICAL. PROVIDE 4" GRANULAR FILL UNDER 5" CONC. SLAB ONLY.
 5. PERIMETER INSULATION - SEE ARCH. DRAWINGS.
 6. CONCRETE SLAB ON GRADE. SEE FOUNDATION PLAN FOR REINF. AND FIN. SLAB ELEVATIONS.
 7. 18 GA. METAL STUDS @ 16" O.C., SIZE AS NOTED. PROVIDE 16 GA. T.D. TRACK TOP AND BOTTOM. ANCHOR TO CONCRETE W/1/2"x3" Ø EMBEDD. EXP. ANCHORS @ 48" O.C. UNO.
 8. STEEL COLUMN. - SEE ROOF FRAMING PLAN FOR SIZE AND BASE PLATE SCHEDULE.
 9. 1-1/2" MIN. NON SHRINK GROUT.
 10. SEE CIVIL DRAWINGS FOR EXTERIOR CONDITION AND FINISH GRADES.
 11. 30# FELT JOINT - CONT.
 12. 1/2" EXPANSION JOINT MATERIAL - CONT.
 13. 6 #6 DOMELS & #2 TIES @ 12" O.C. AT COLUMN LOCATIONS
 14. KNOCKOUT PANEL - REINFORCE W/ 1-#4 ALL SIDES-ØP-OPENING, WITH STANDARD SPLICE AT HORIZONTALS. SEE S1.1 FOR LOCATIONS.

SCALE: 3/4" = 1'-0" UNLESS OTHERWISE NOTED



SHEET 10 OF 41

SCALE : 3/4" = 1'-0" UNLESS OTHERWISE NOTED



ADDY & PRICKETT
ARCHITECTURE
PLANNING
INTERIOR DESIGN

109 · EDITH · SE
ALBUQUERQUE · NM · 87102
505 · 842 · 6370

FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED DATE 5/28/87

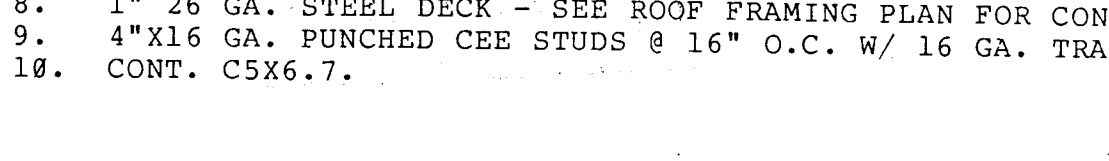
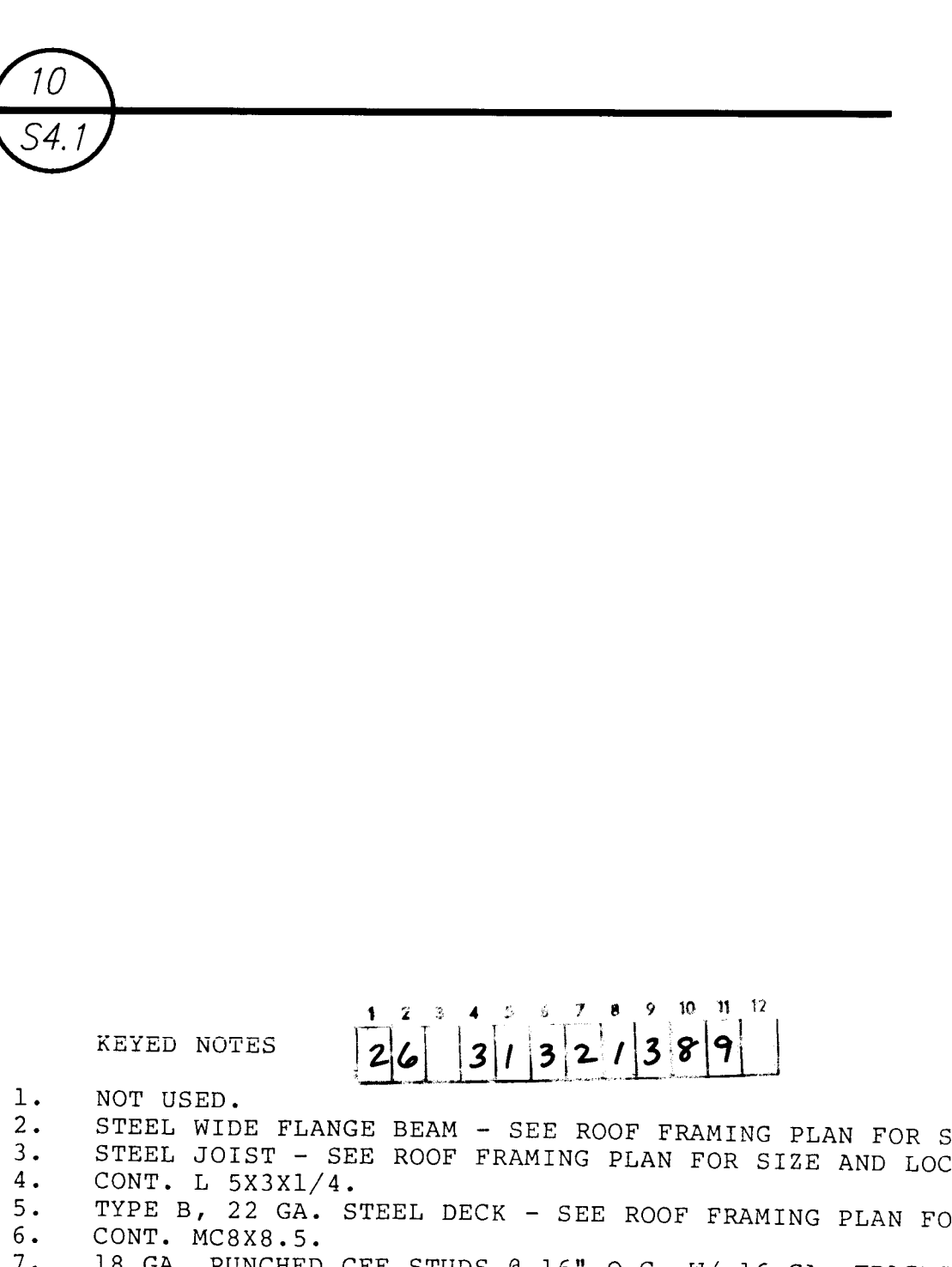
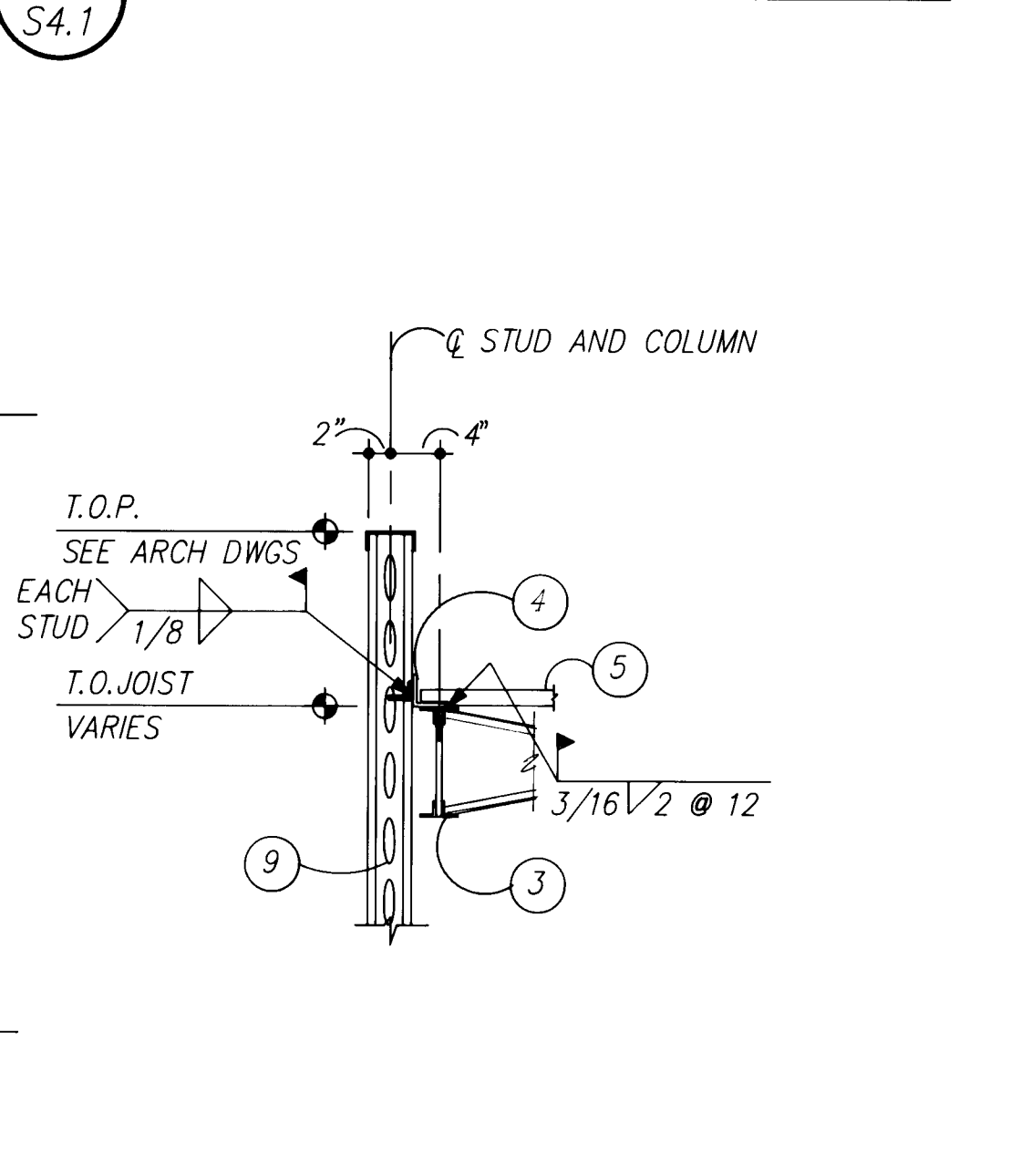
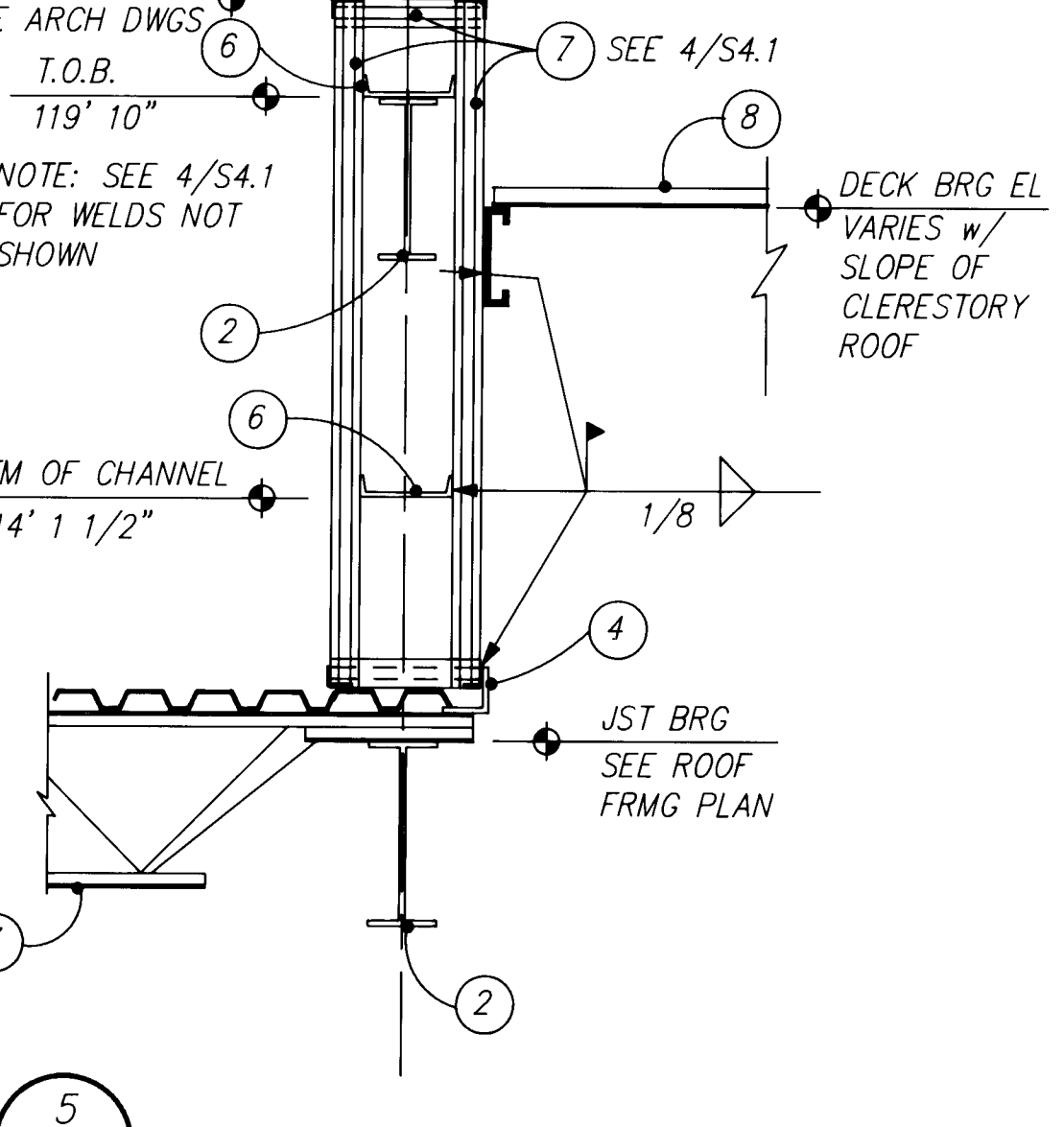
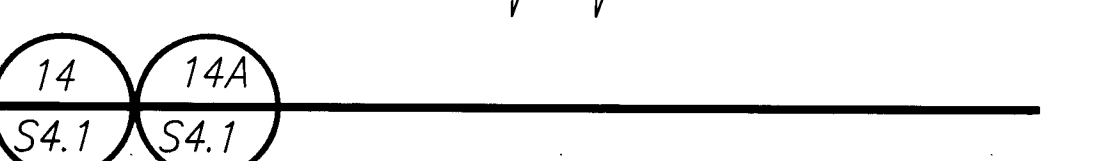
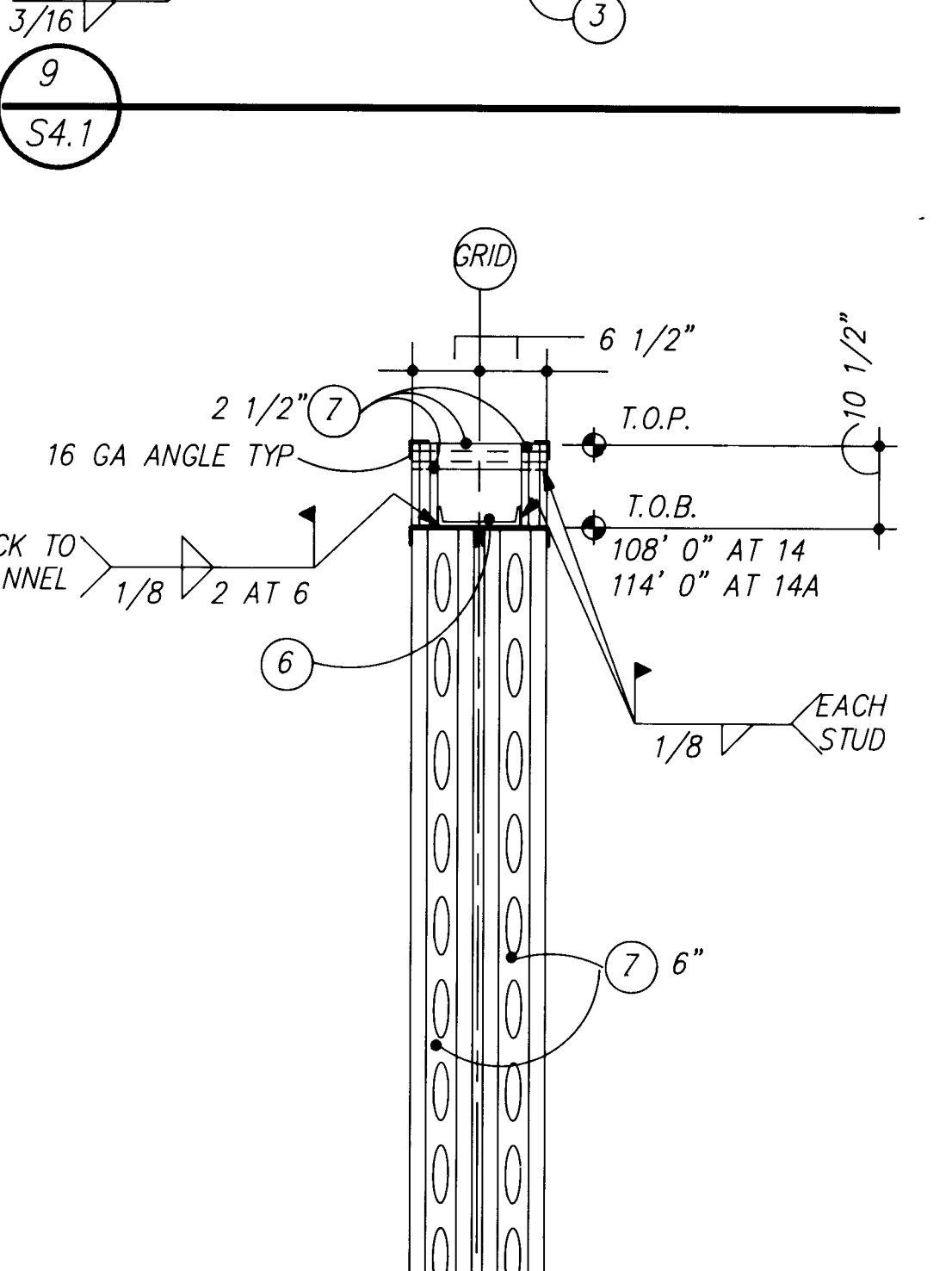
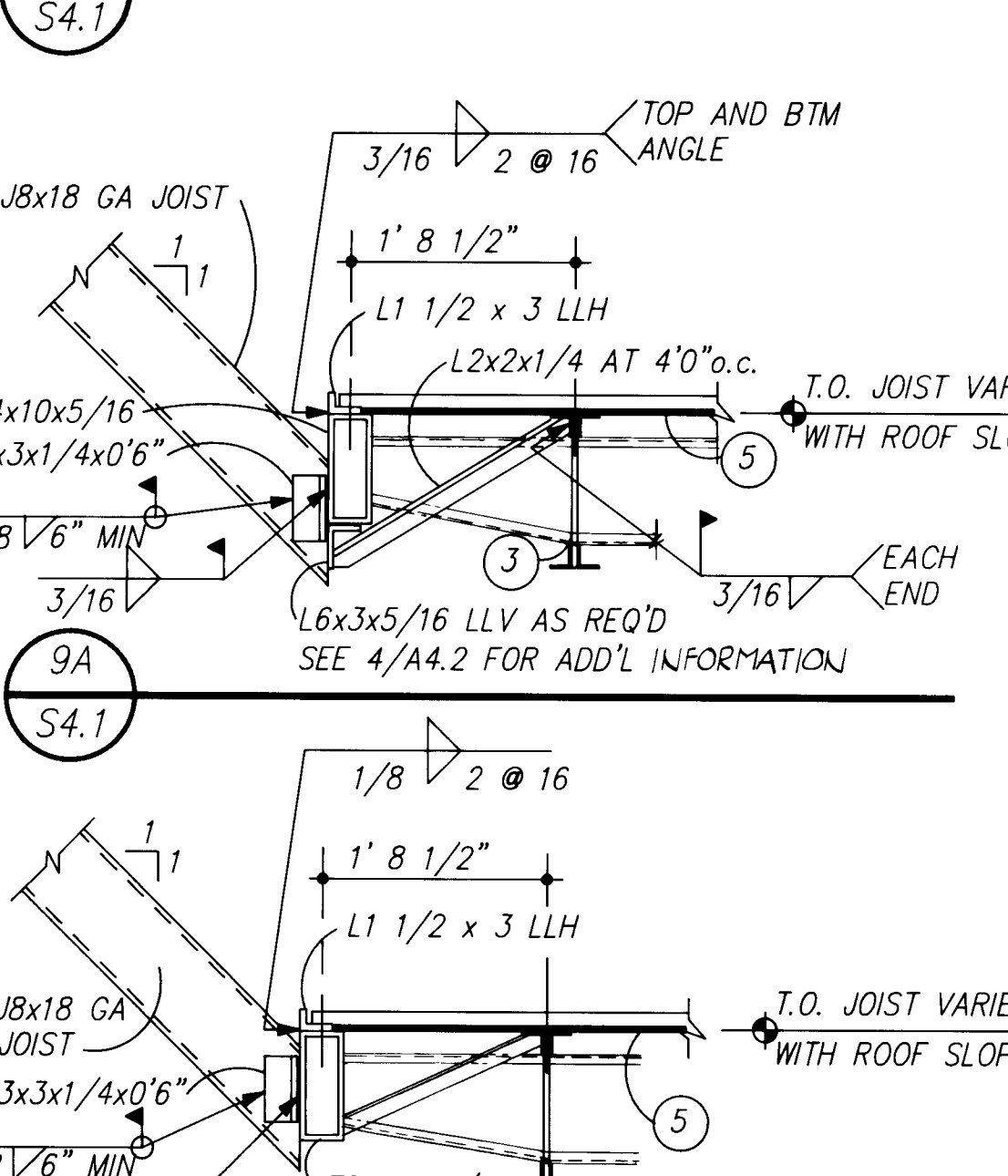
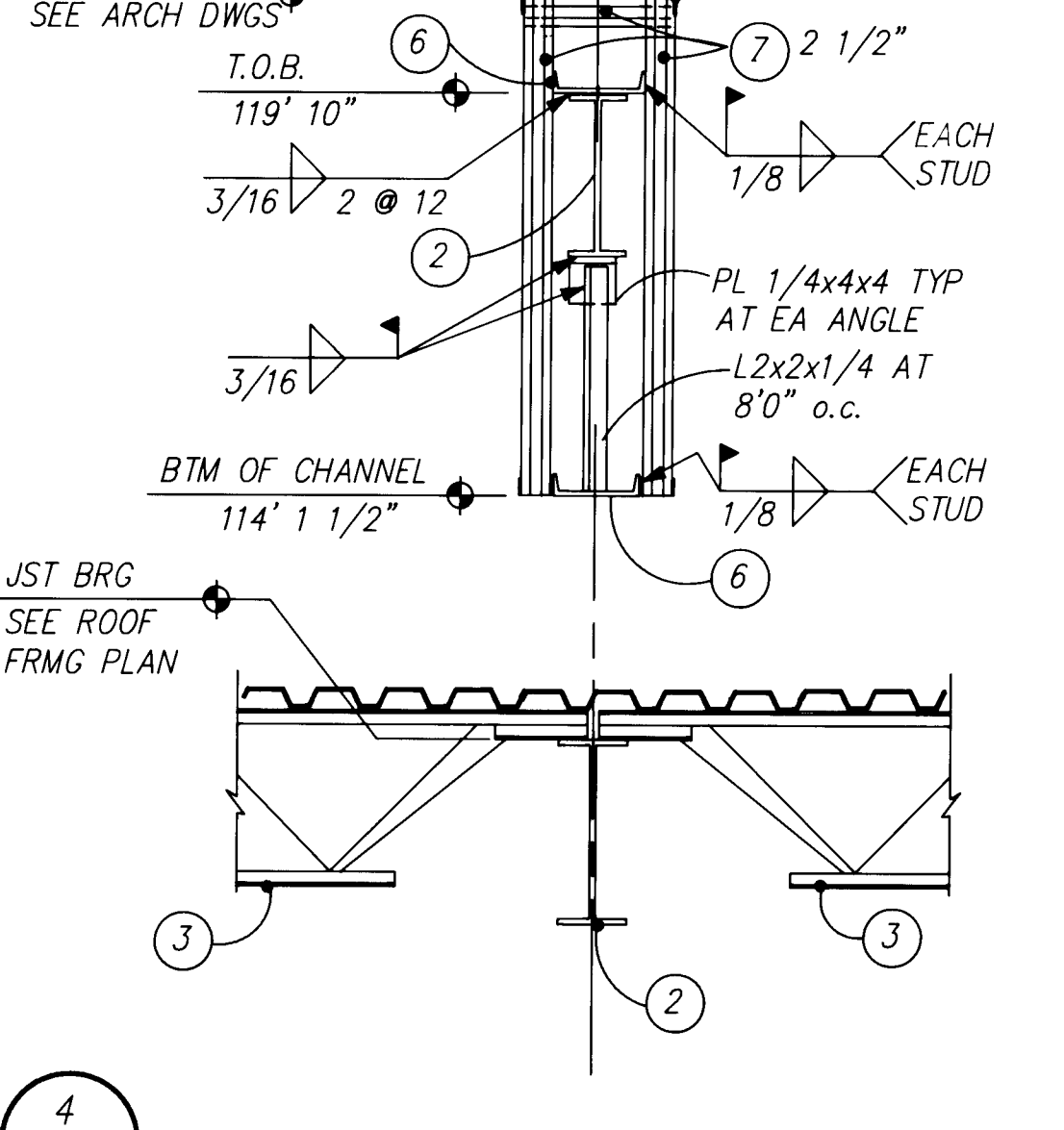
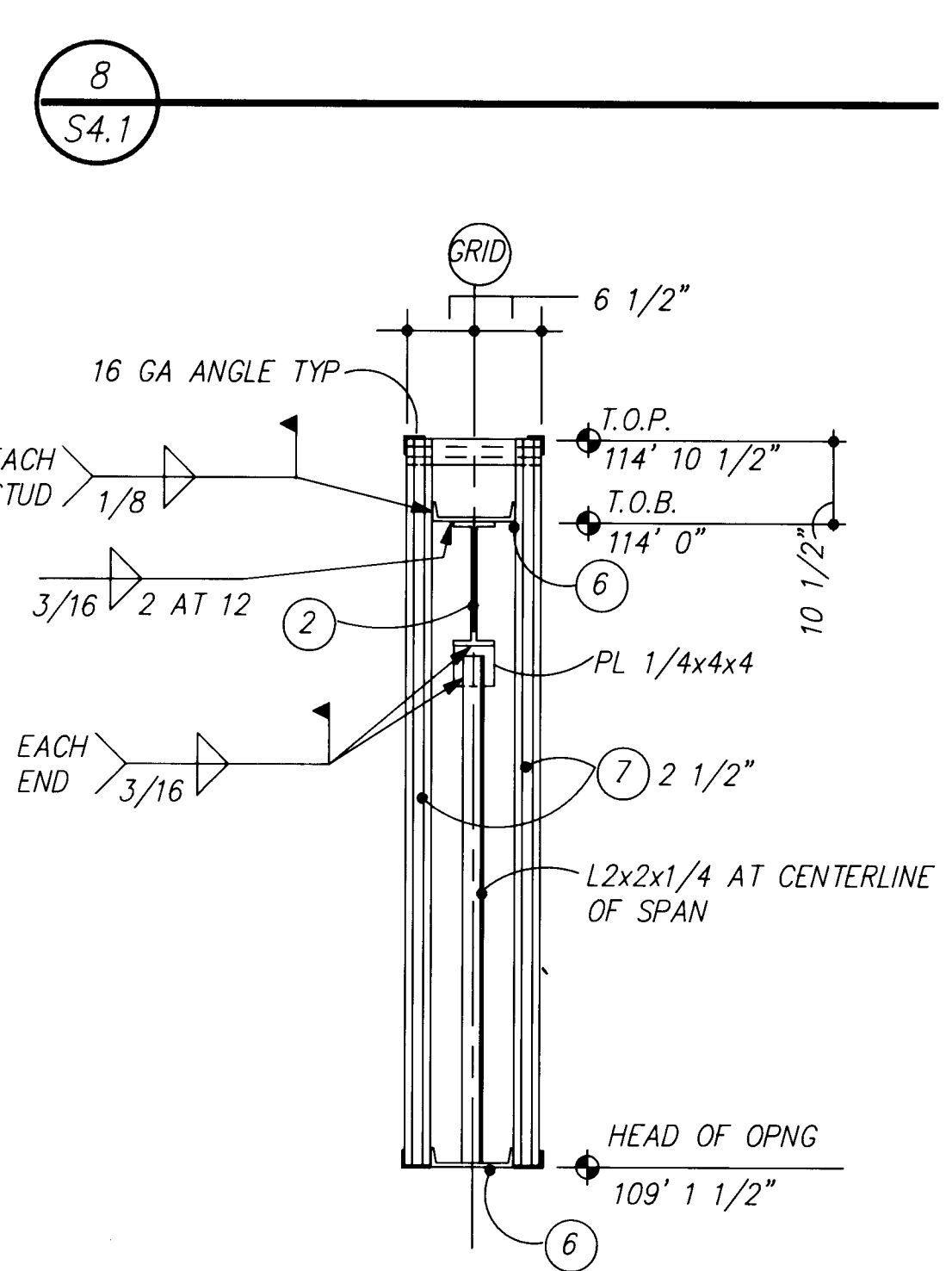
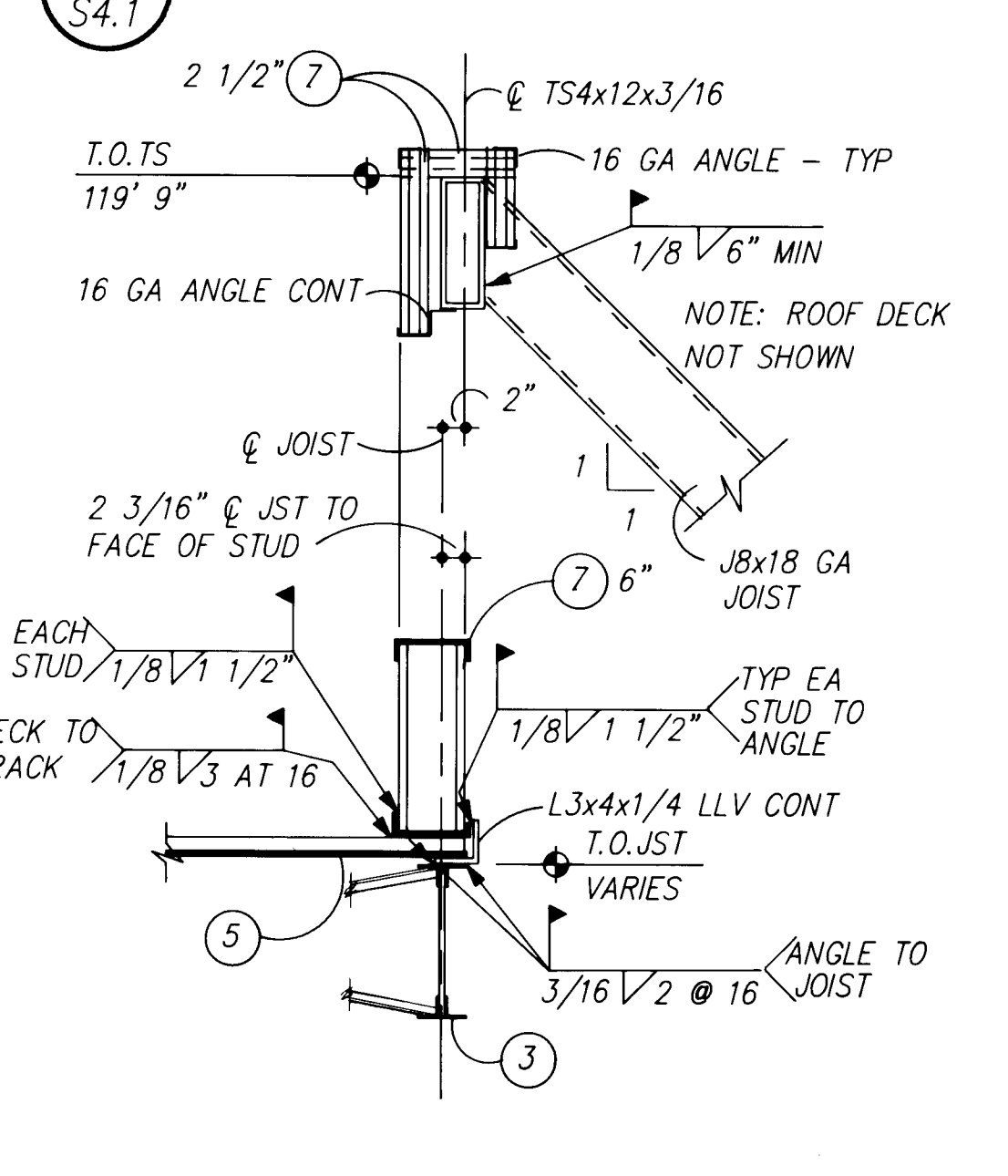
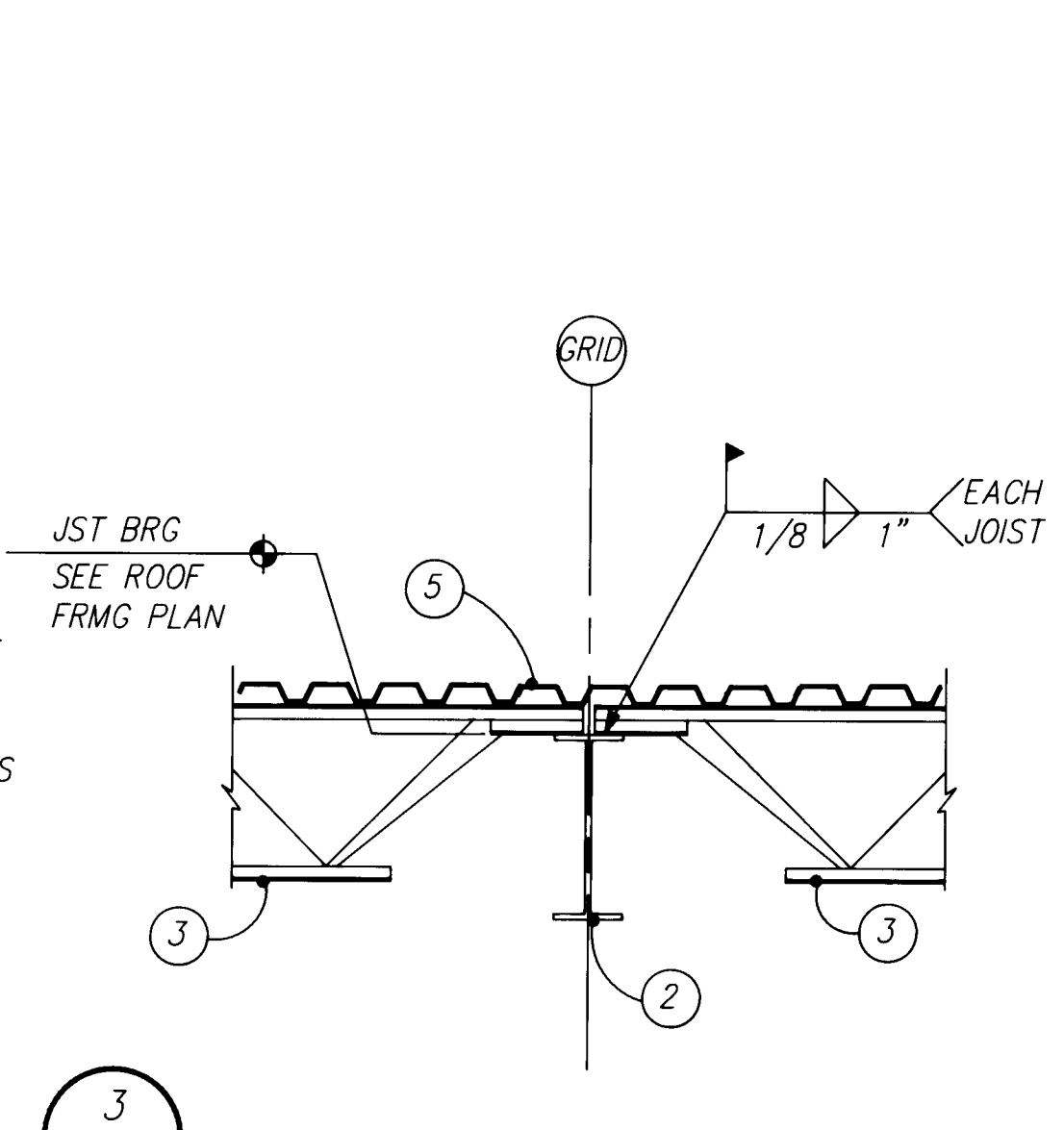
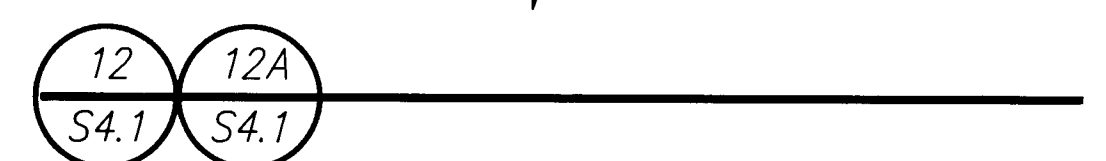
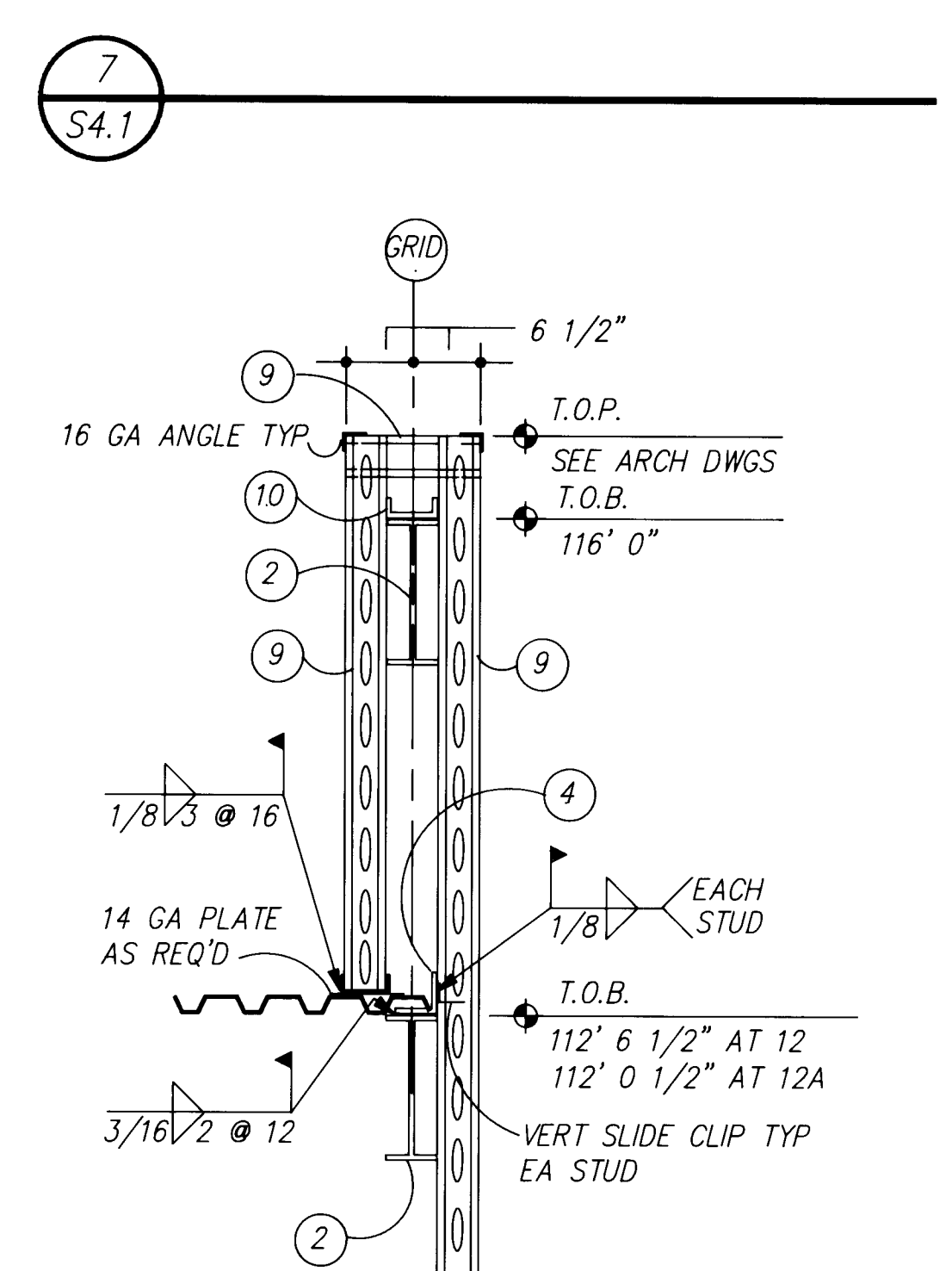
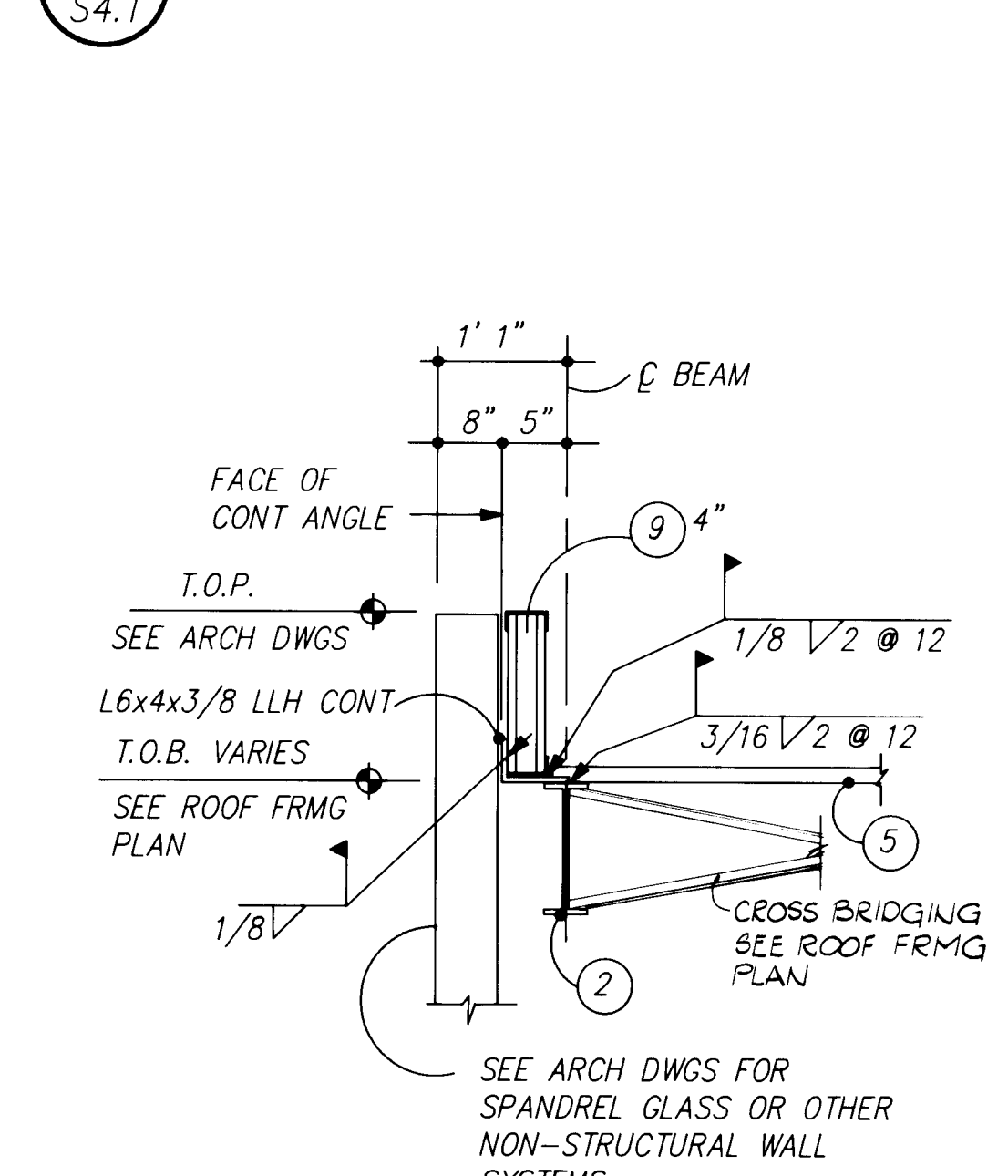
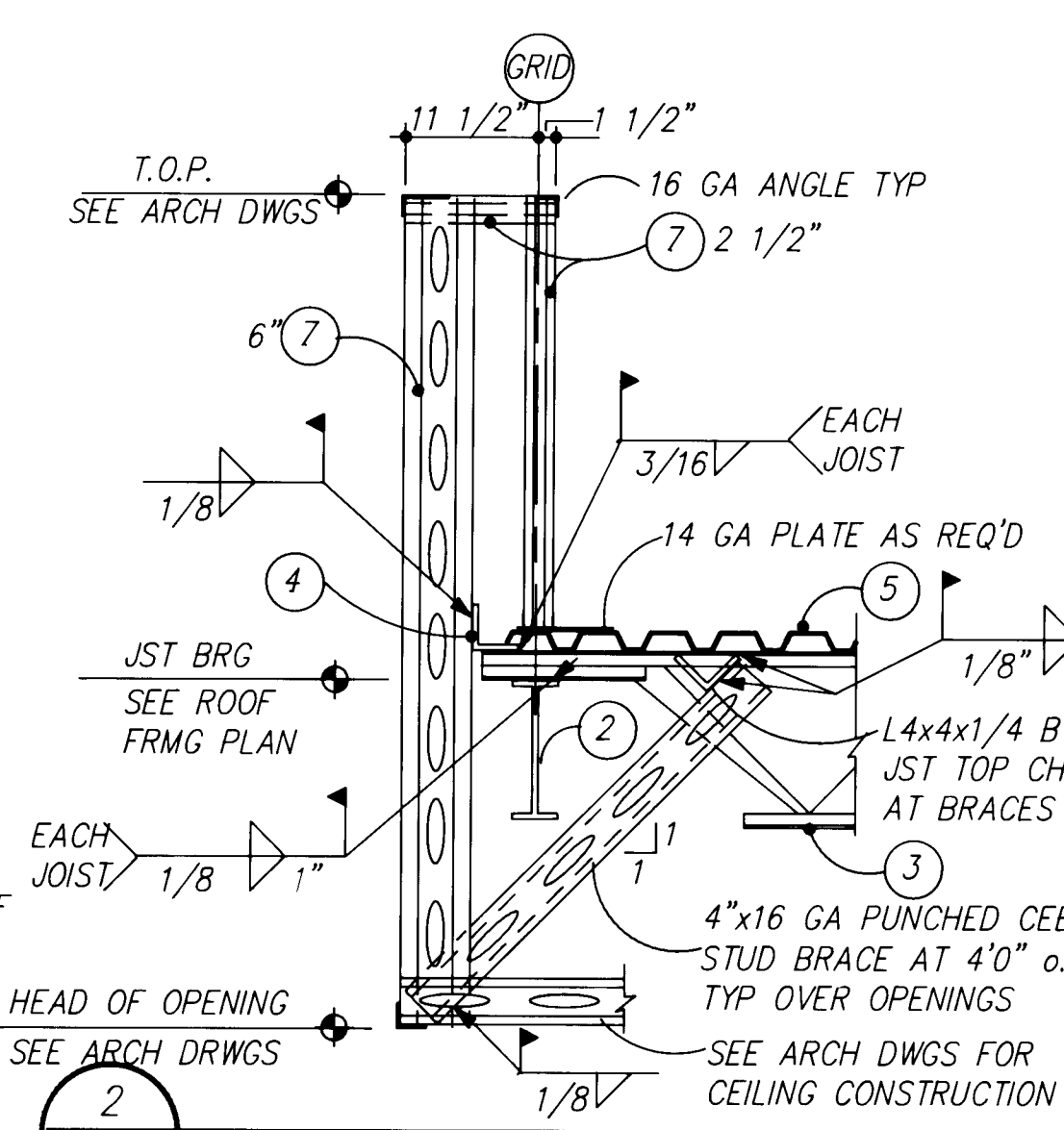
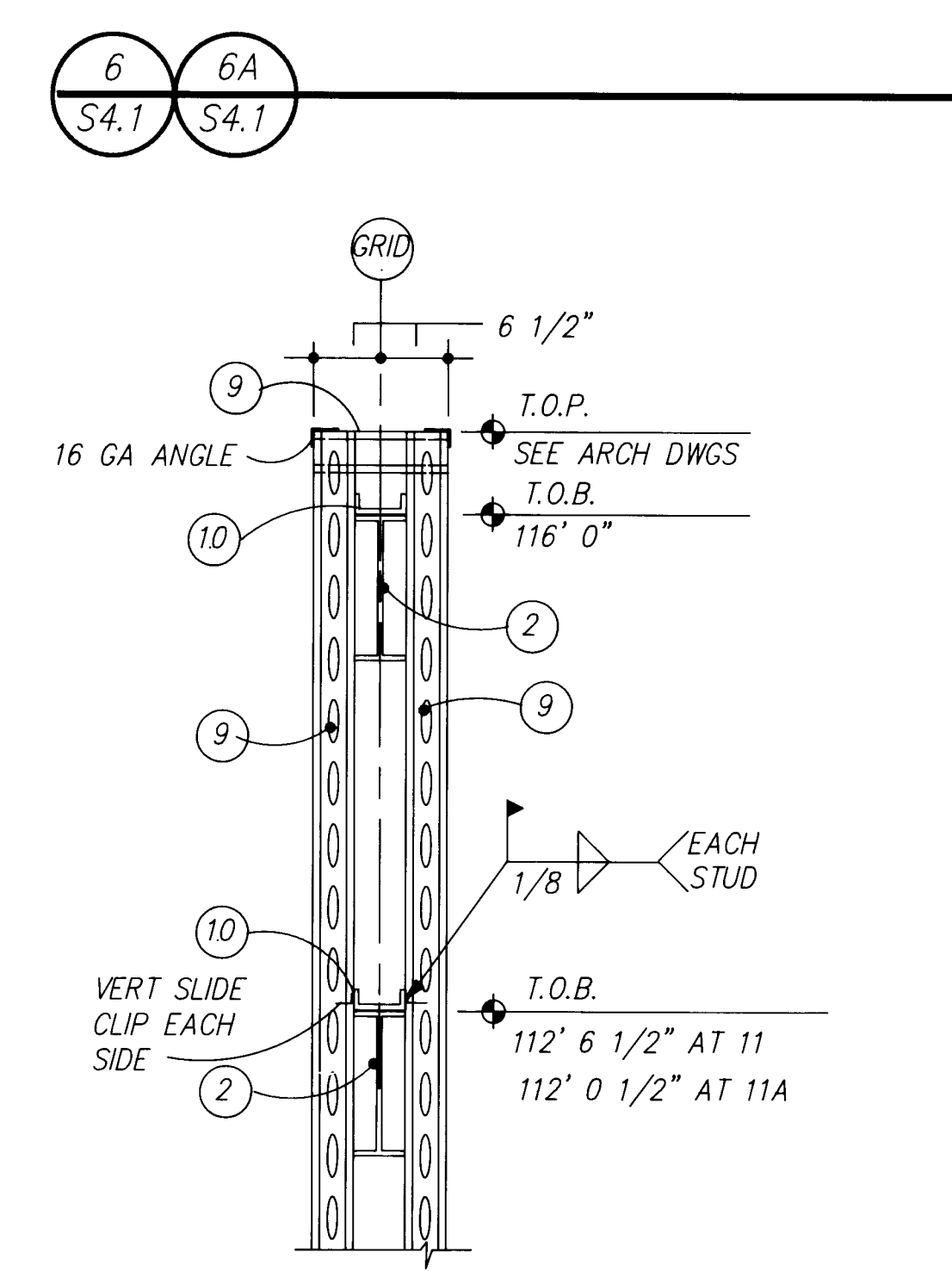
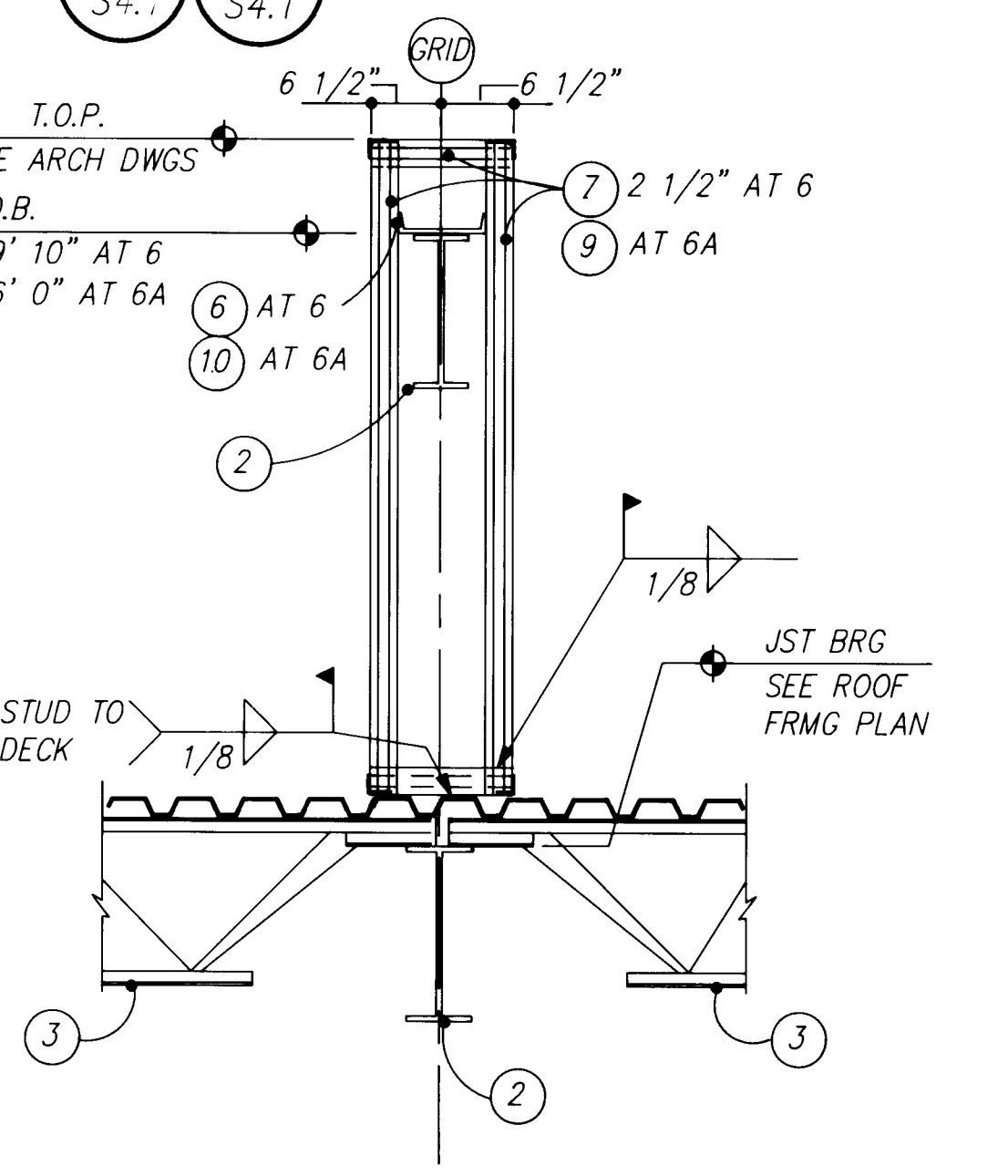
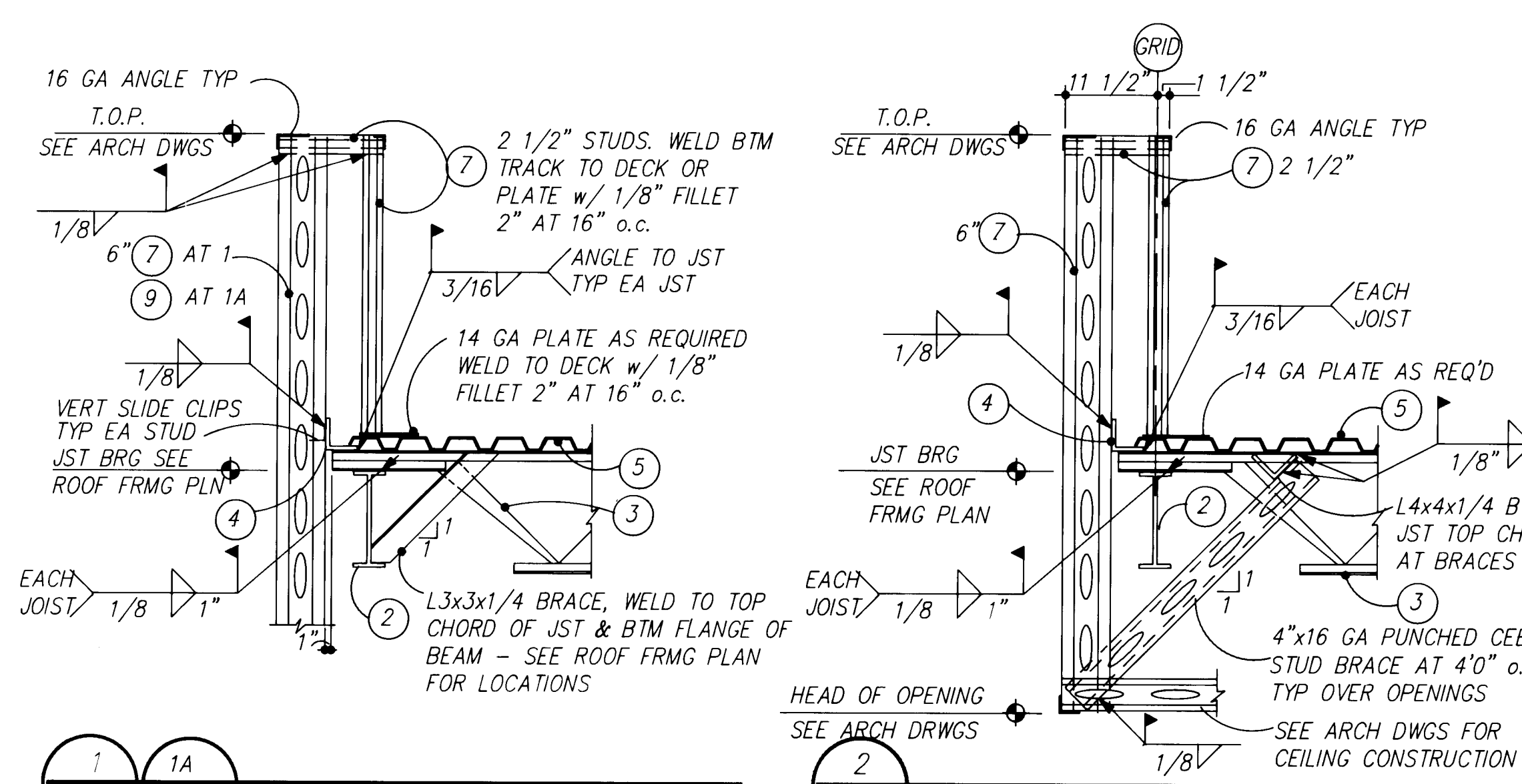
DATE: 5/21/87
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TITLE
ROOF FRAMING
DETAILS

SHEET

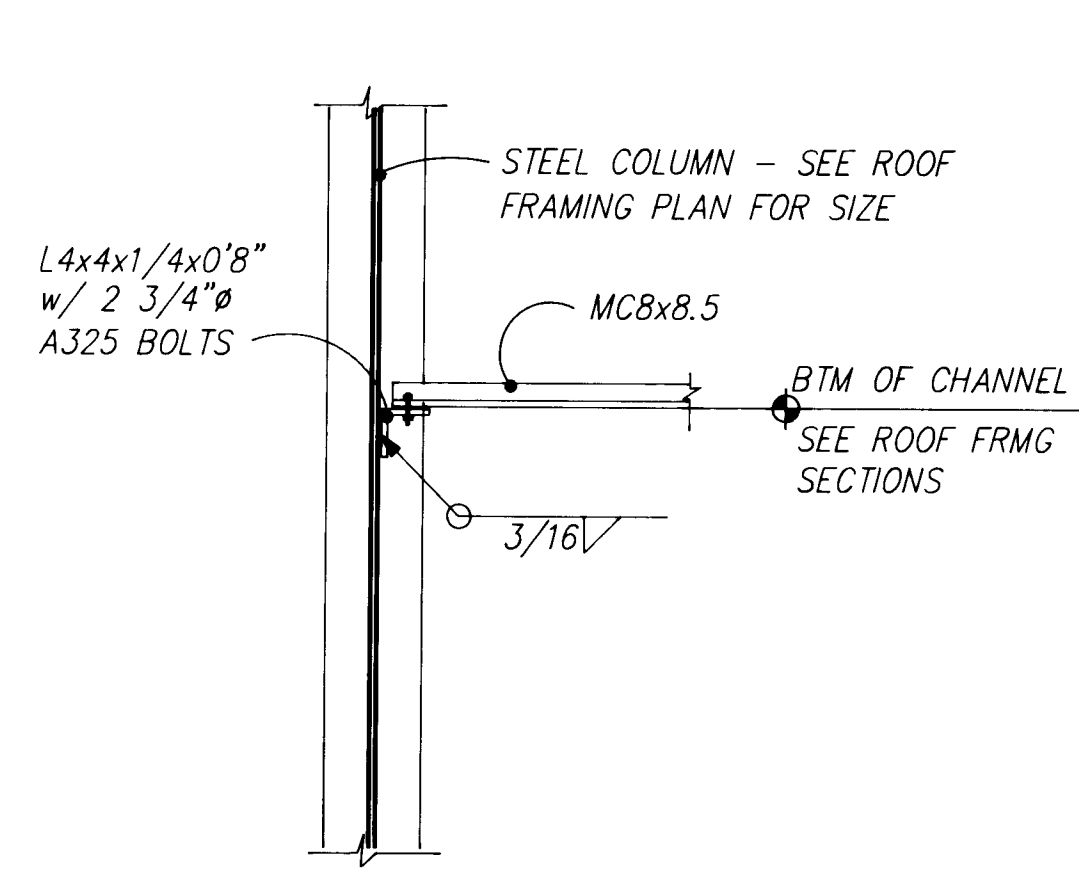
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SHEET 11 OF 41

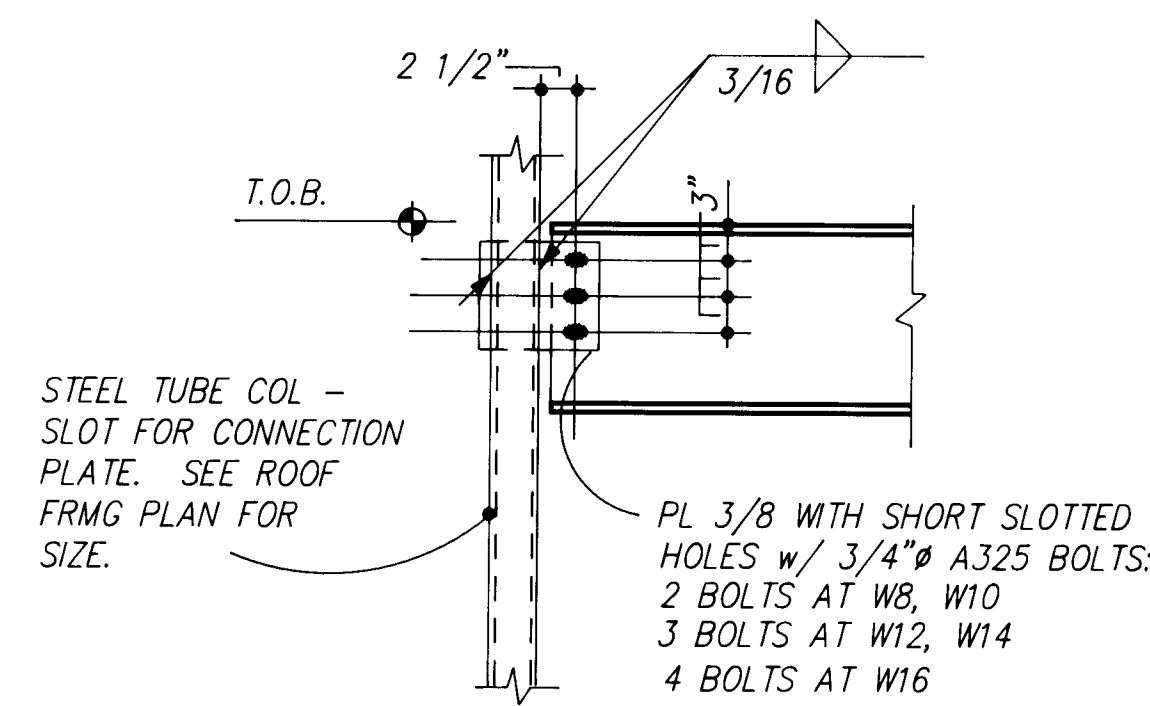


- KEYED NOTES
- | | | | | | | | | | | | |
|----|----|----|----|---|---|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 26 | 31 | 32 | 13 | 8 | 9 | | | | | | |
- NOT USED.
 - STEEL WIDE FLANGE BEAM - SEE ROOF FRAMING PLAN FOR SIZE.
 - STEEL JOIST - SEE ROOF FRAMING PLAN FOR SIZE AND LOCATION.
 - CONT. L 5X3X1/4.
 - TYPE B, 22 GA. STEEL DECK - SEE ROOF FRAMING PLAN FOR CONNEX.
 - CONT. MC8X8.5.
 - 18 GA. PUNCHED CEE STUDS @ 16" O.C. W/ 16 GA. TRACKS.
 - 1" 26 GA. STEEL DECK - SEE ROOF FRAMING PLAN FOR CONNEX.
 - 4"X16 GA. PUNCHED CEE STUDS @ 16" O.C. W/ 16 GA. TRACKS
 - CONT. C5X6.7.

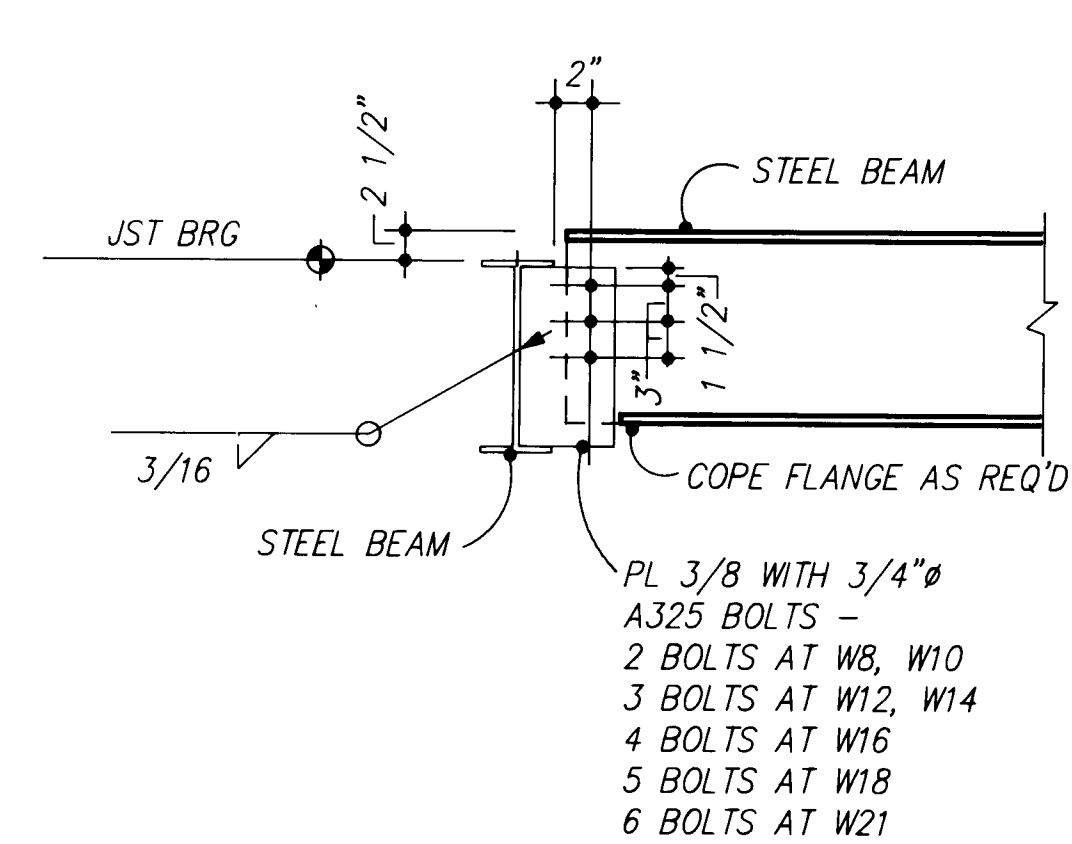
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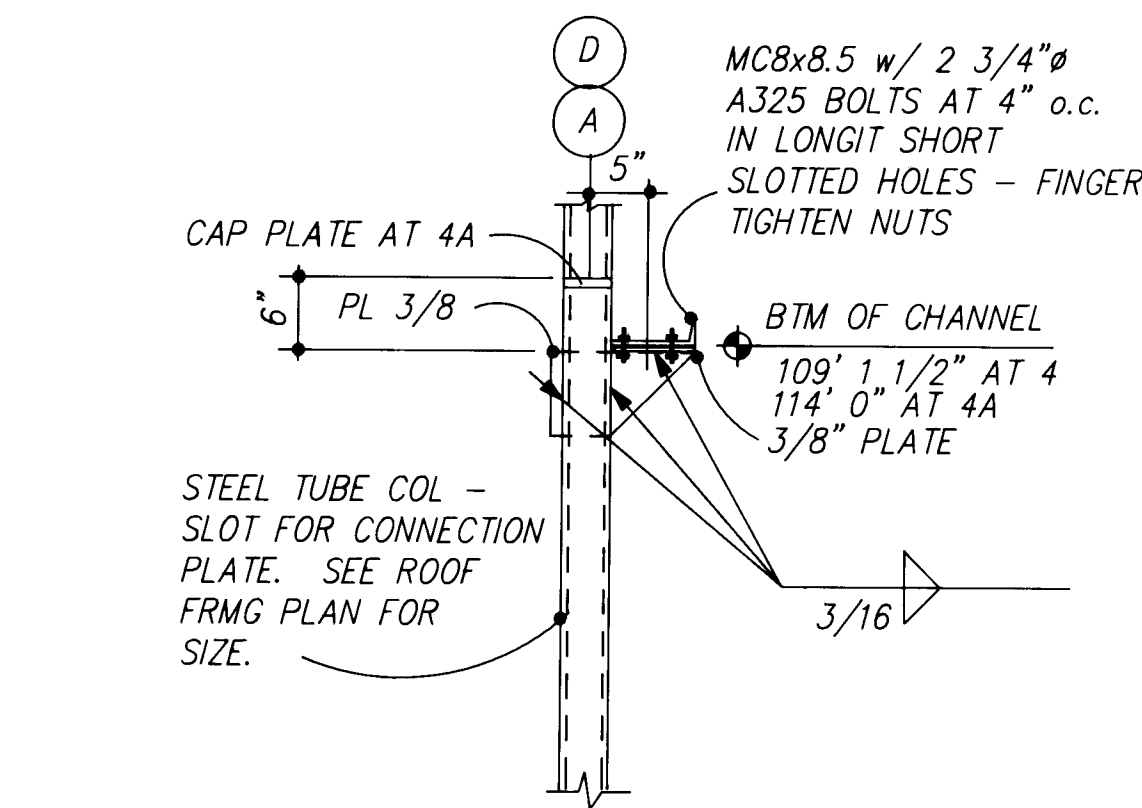
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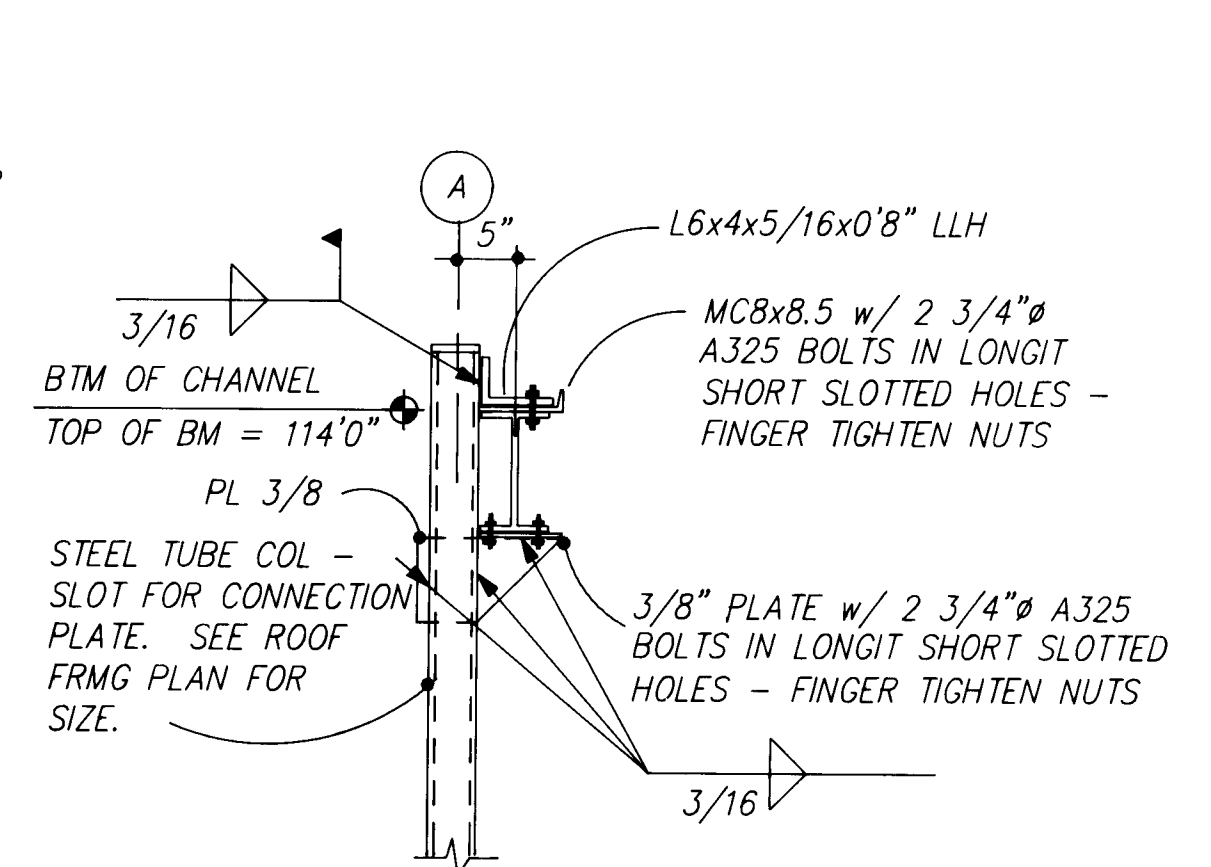
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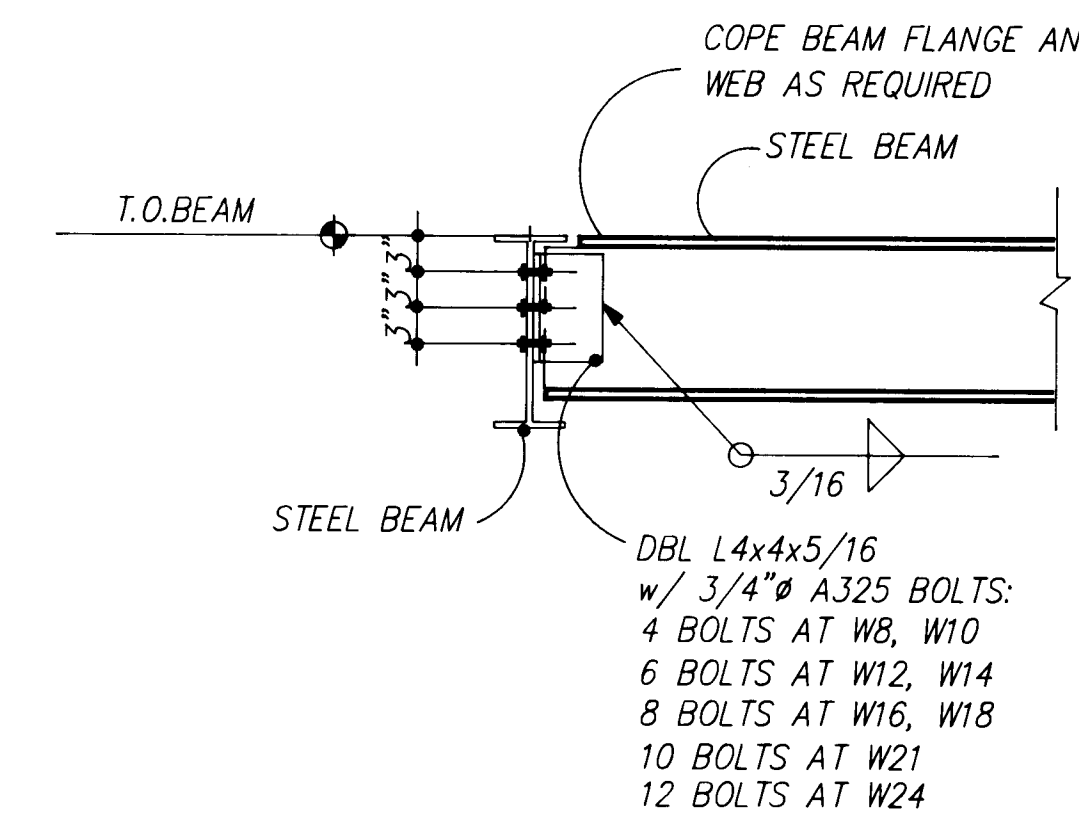
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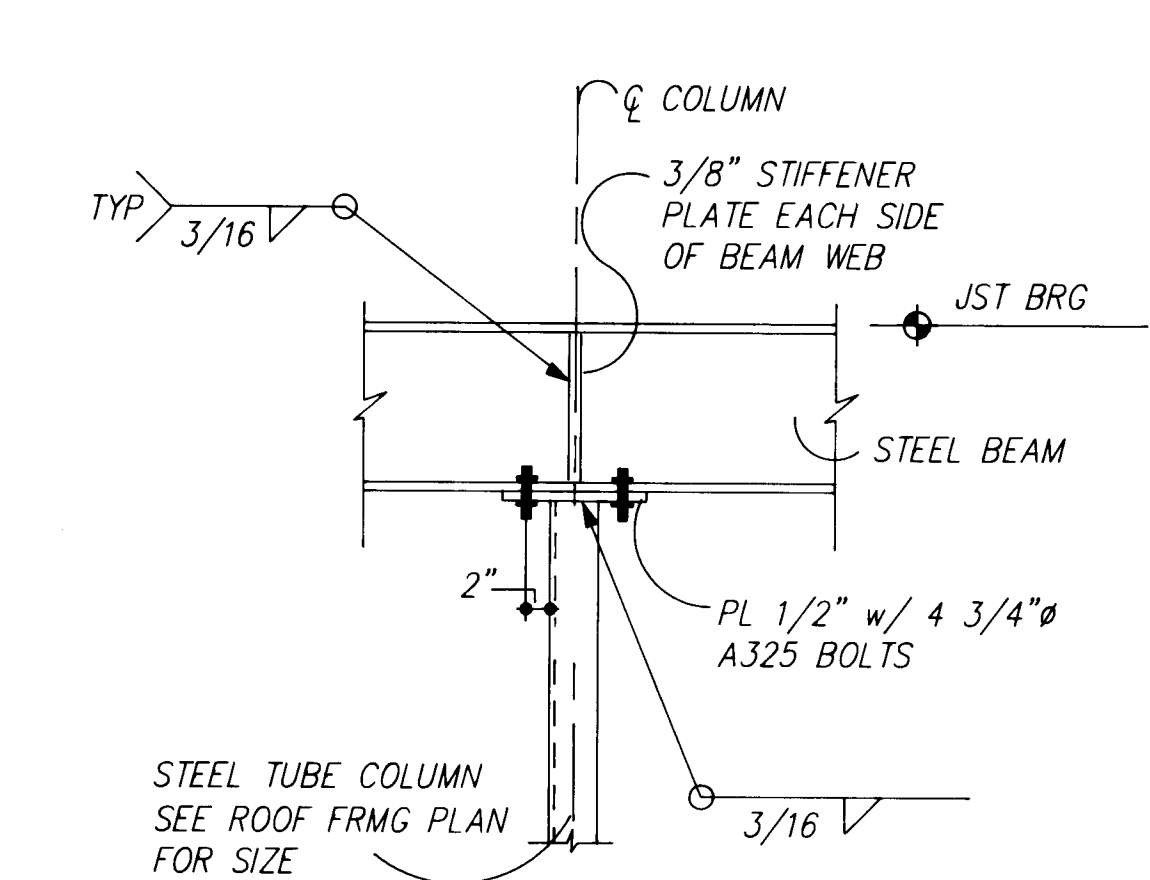
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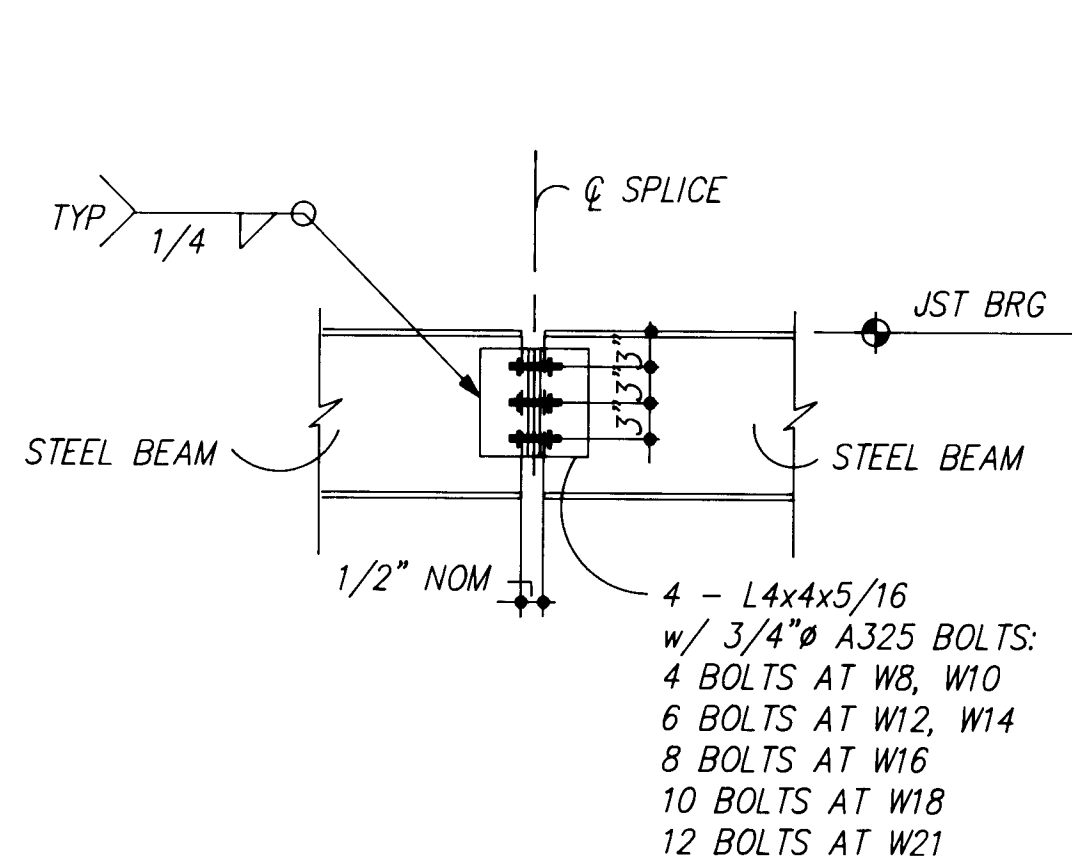
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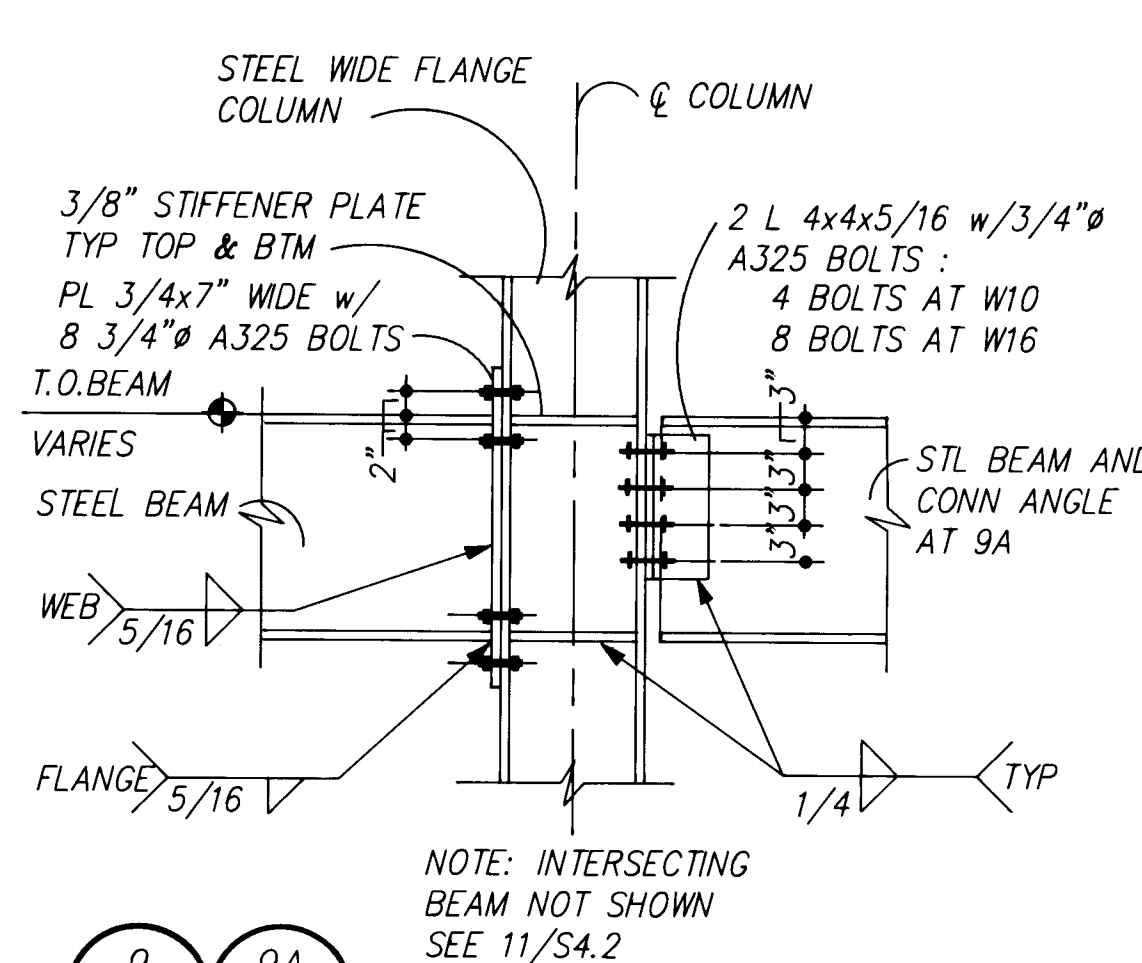
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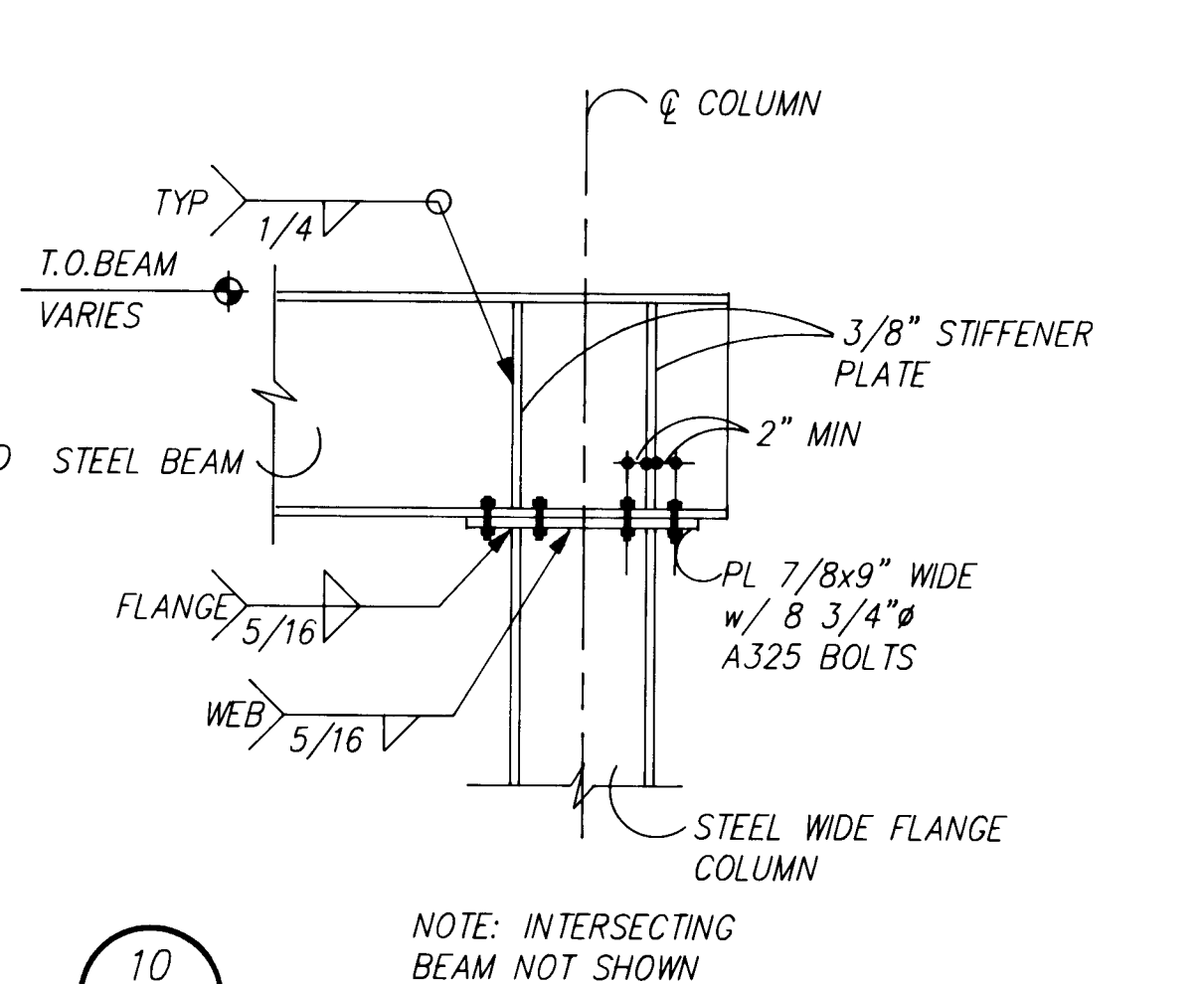
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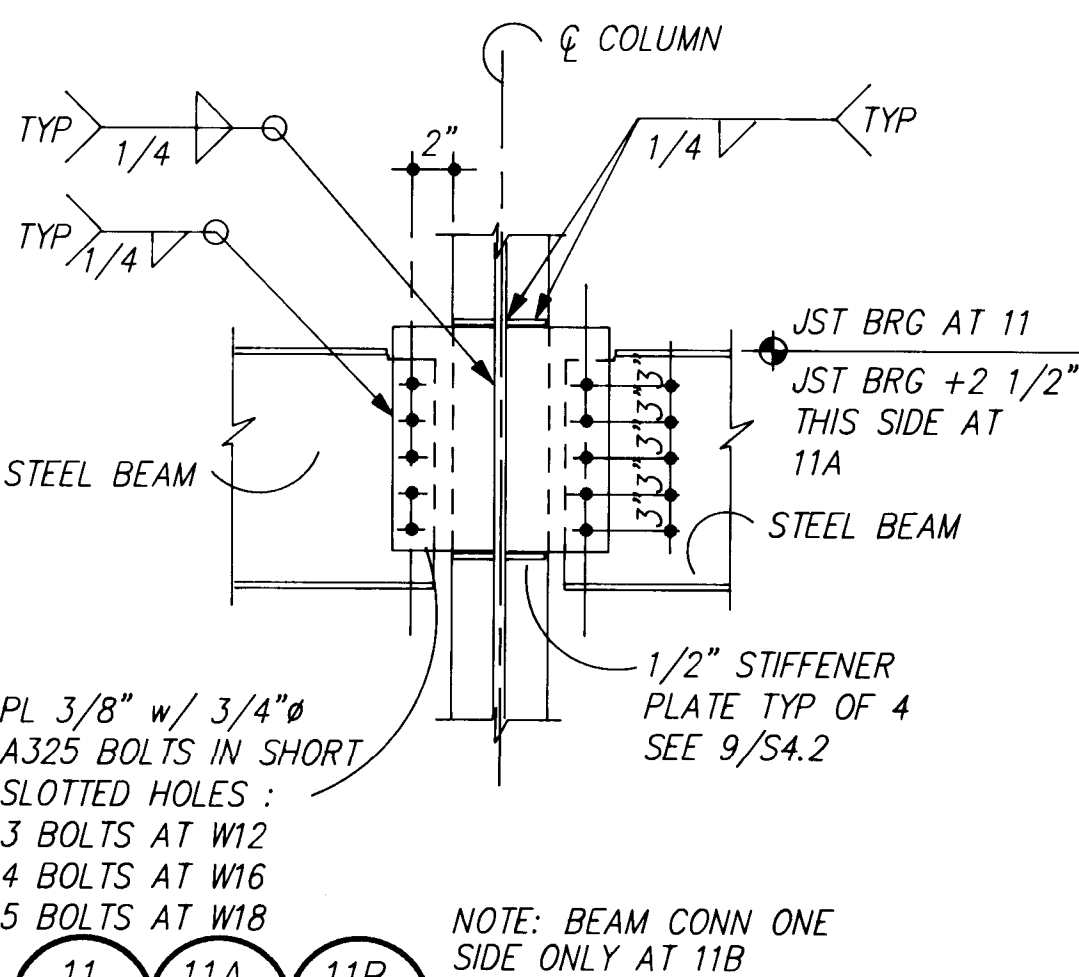
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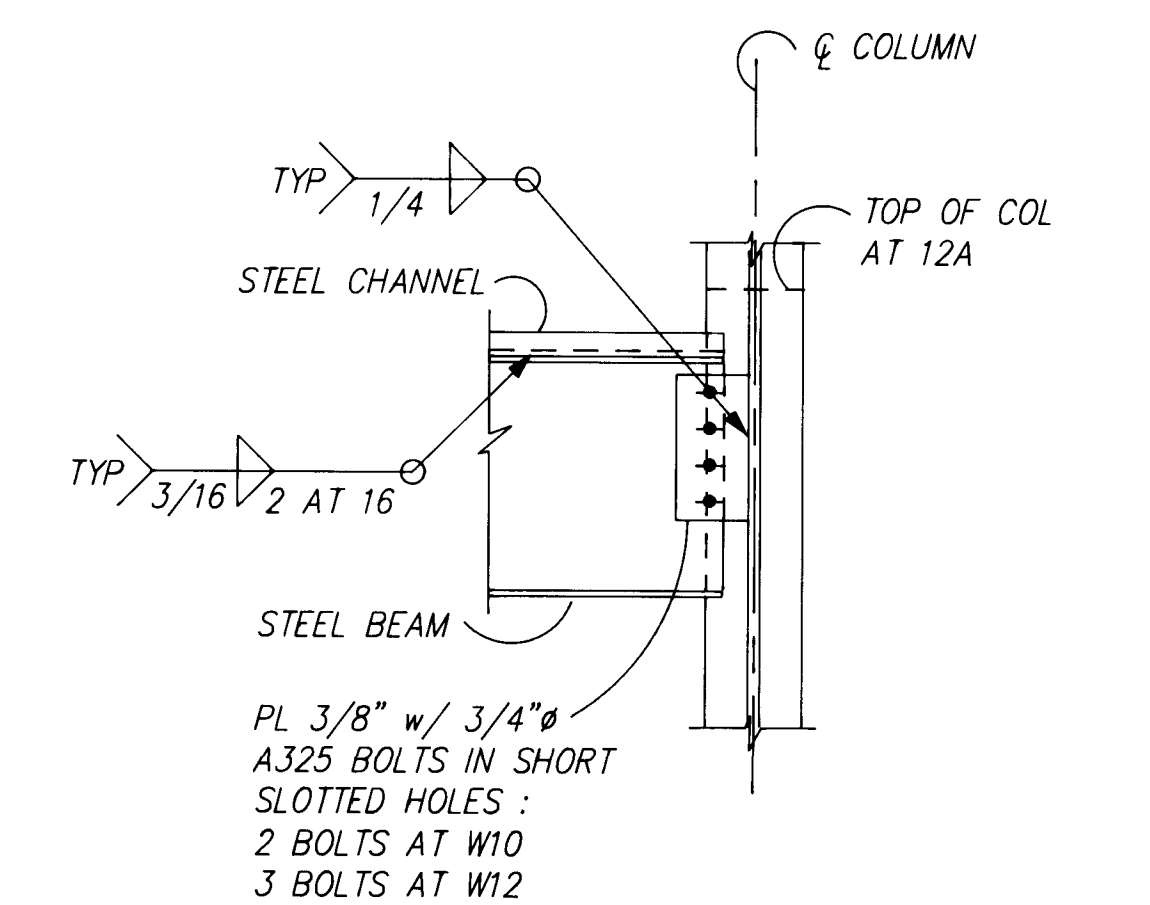
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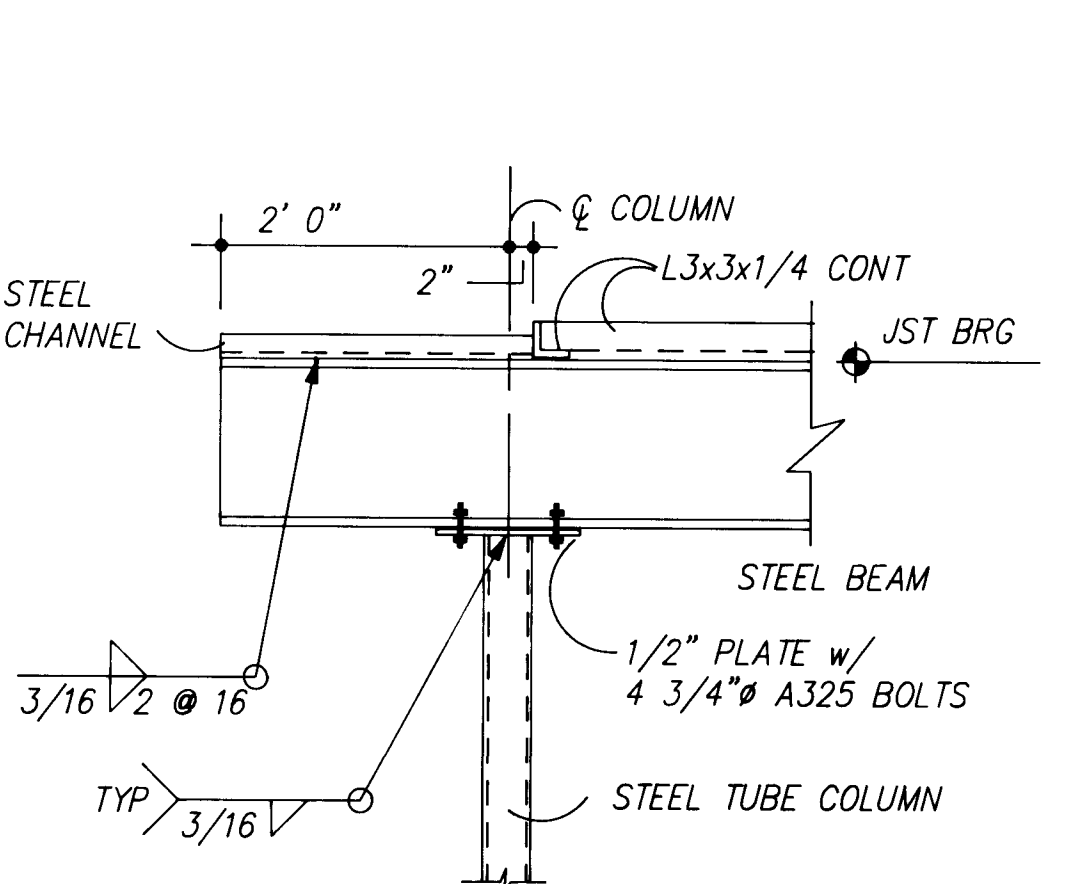
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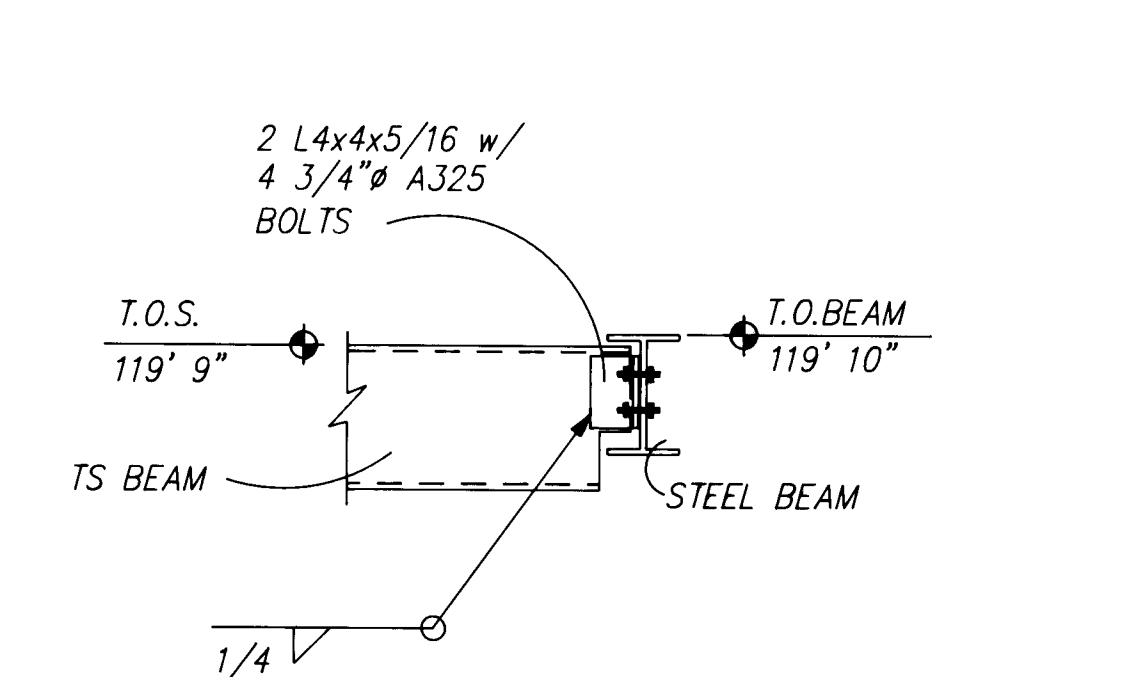
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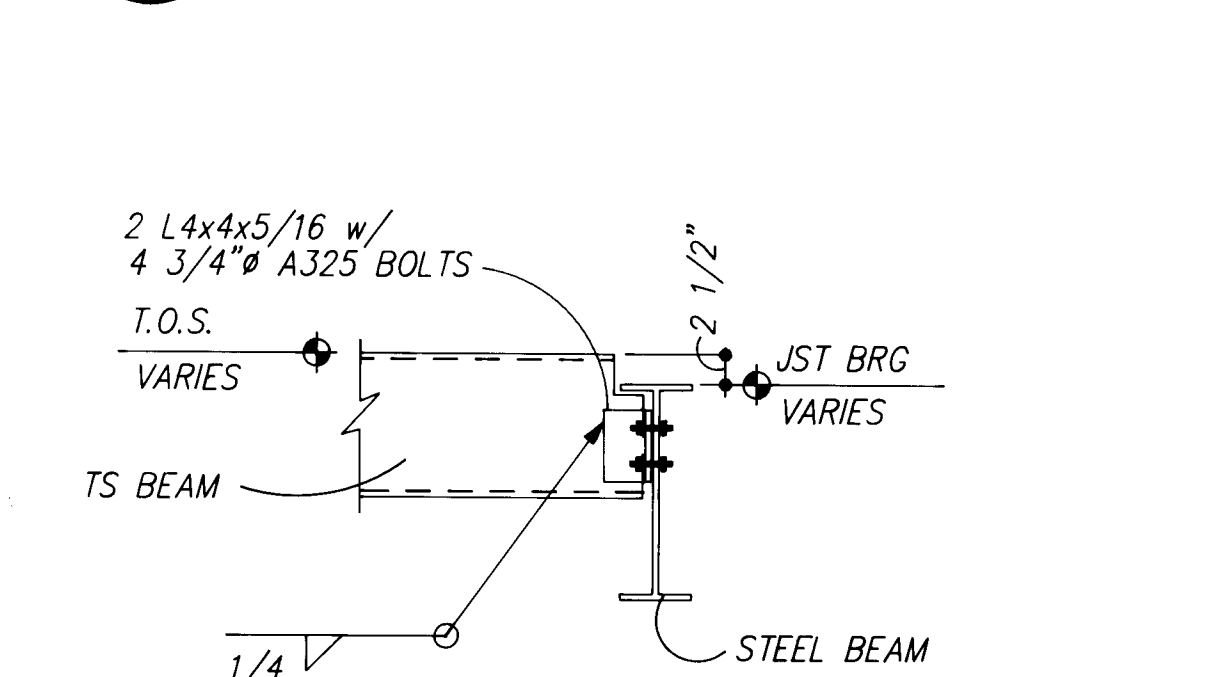
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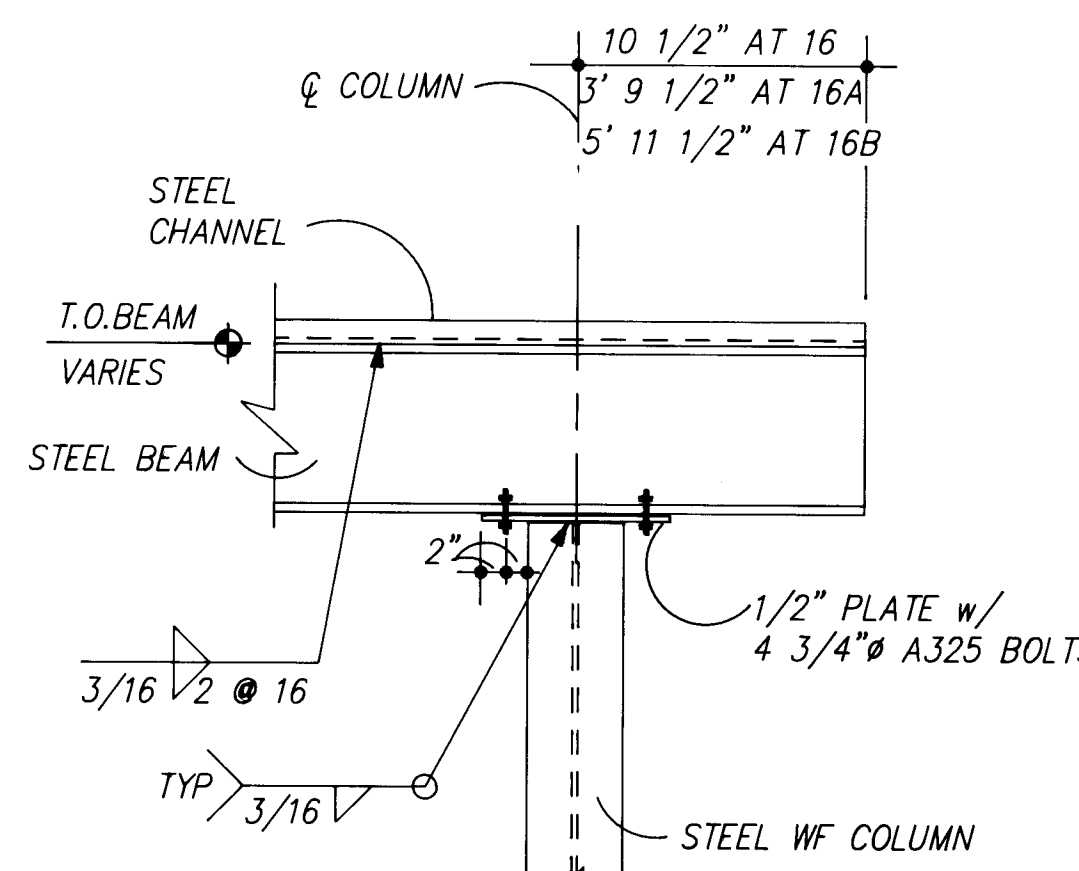
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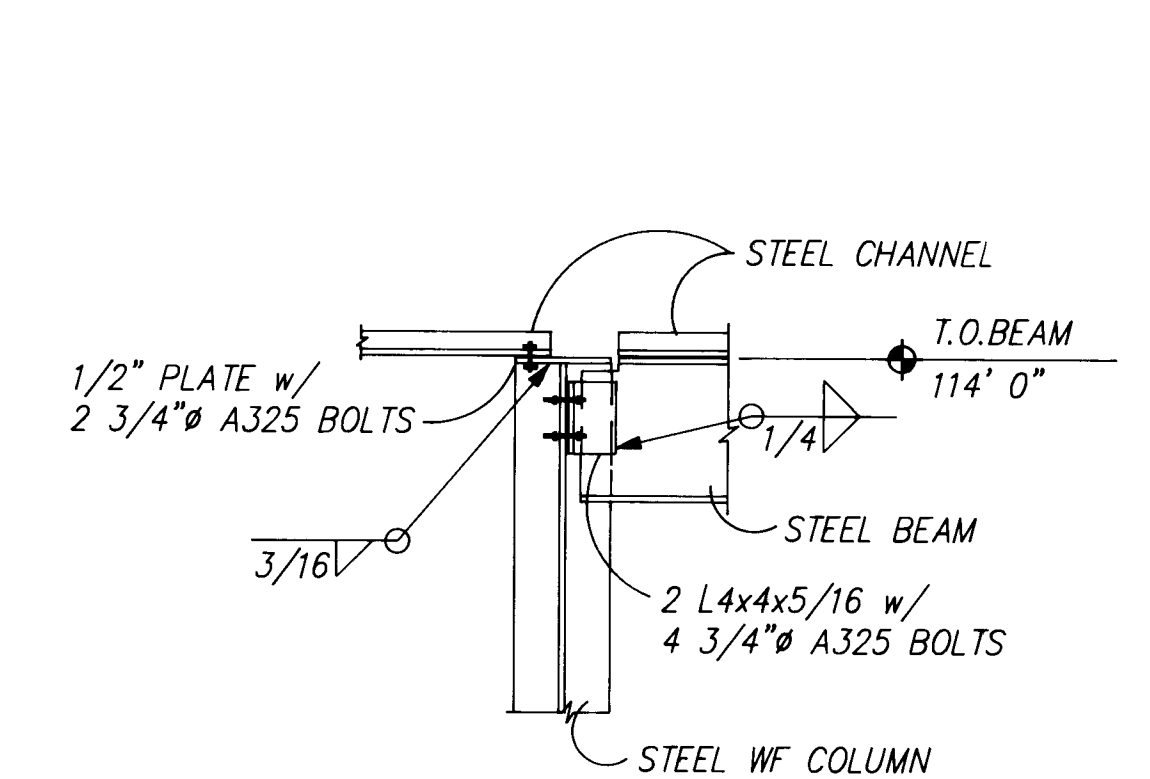
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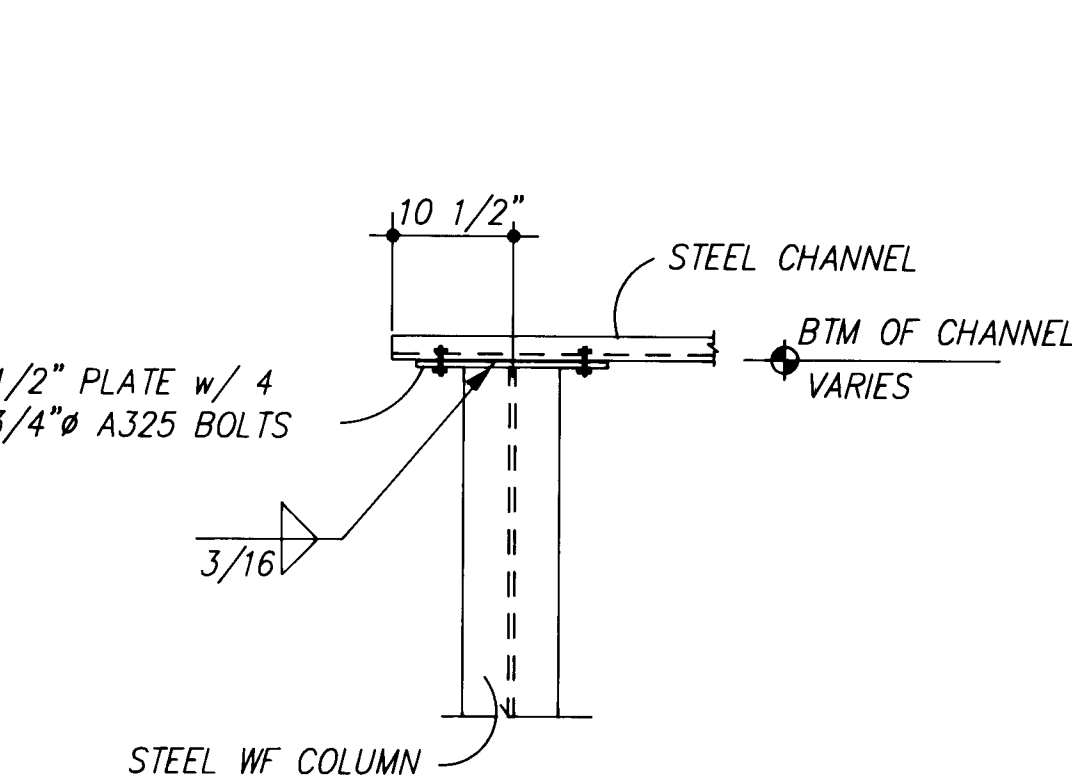
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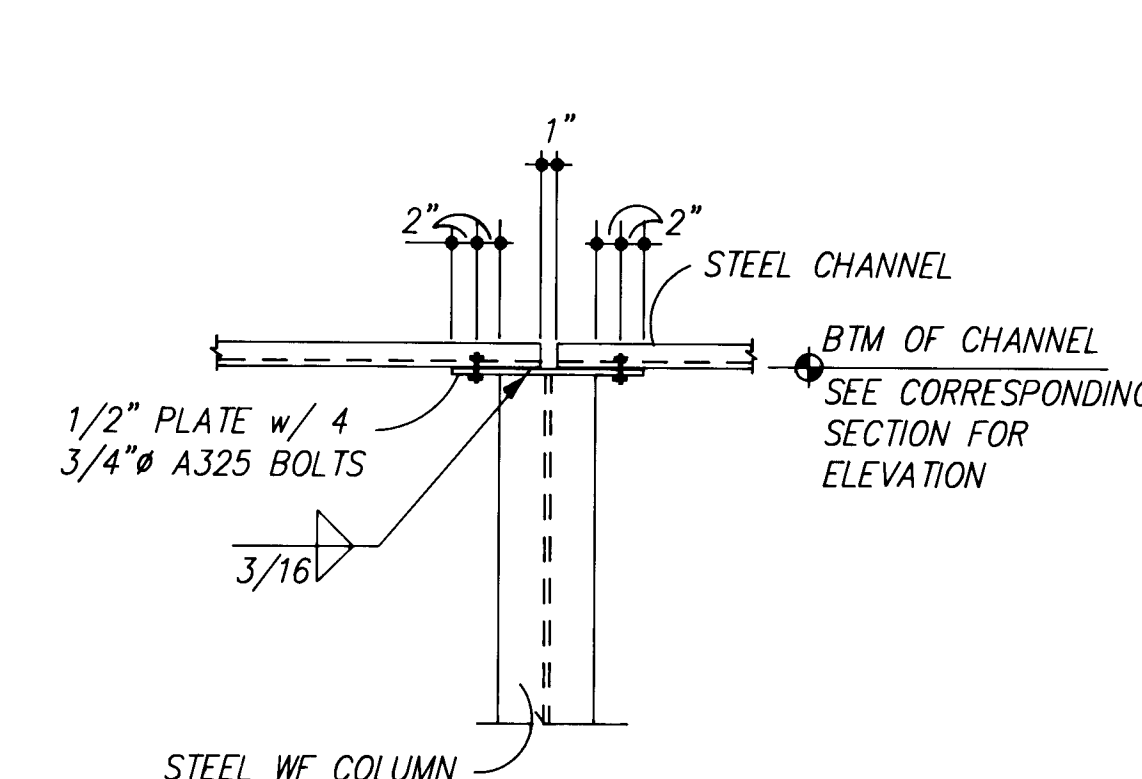
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17
S4.2



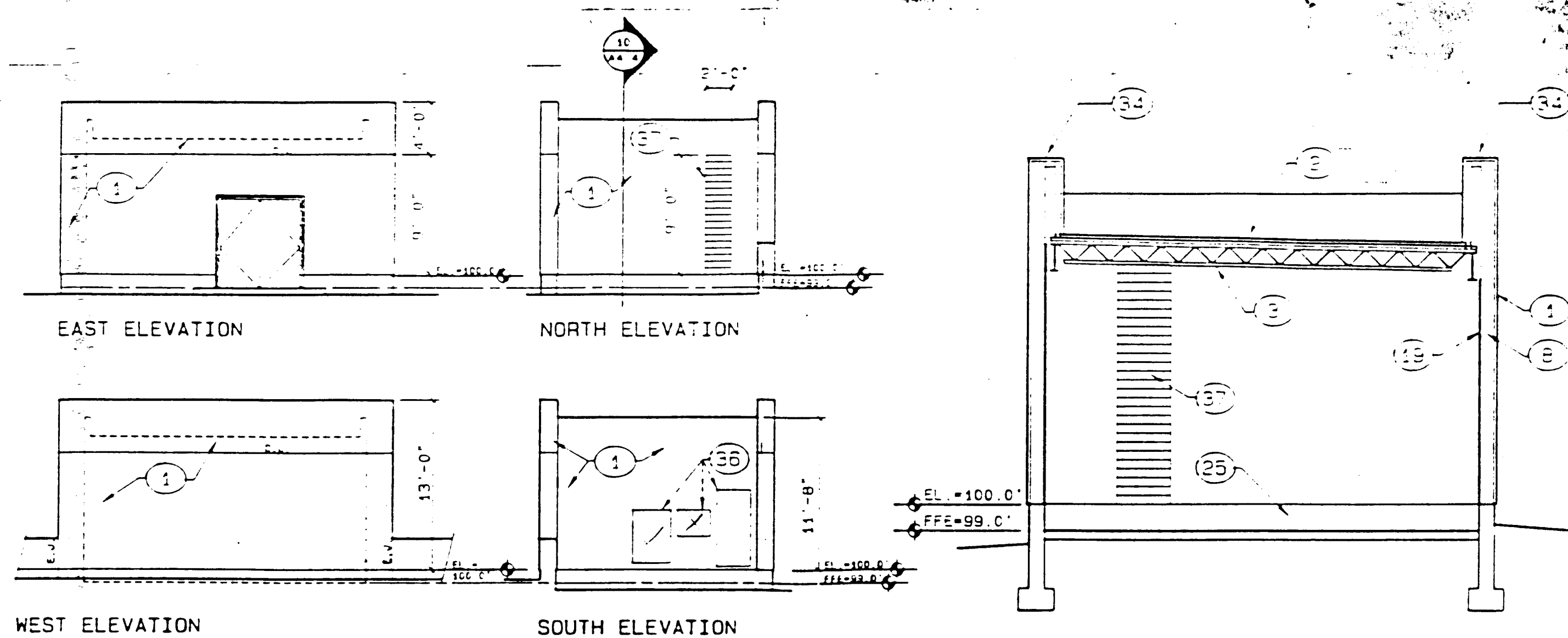
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S4.2



19
S4.2

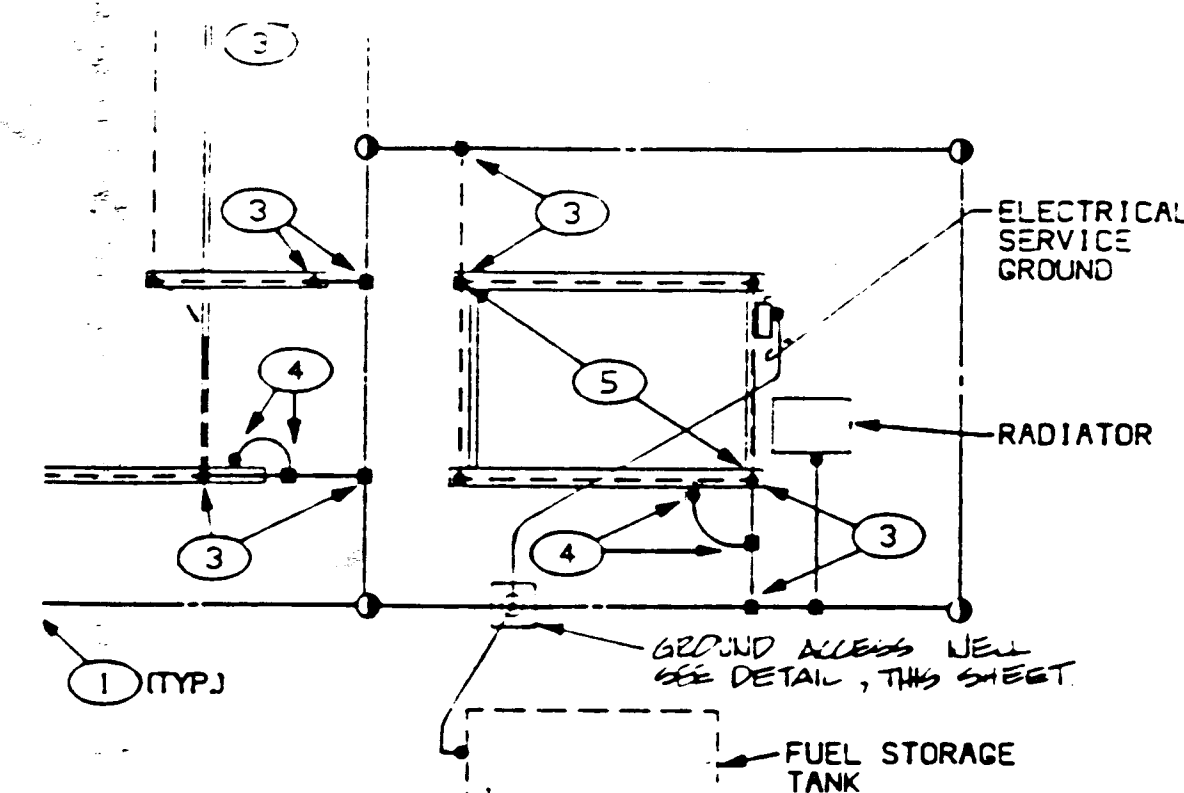
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SCALE : 3/4" = 1'-0" UNLESS OTHERWISE NOTED

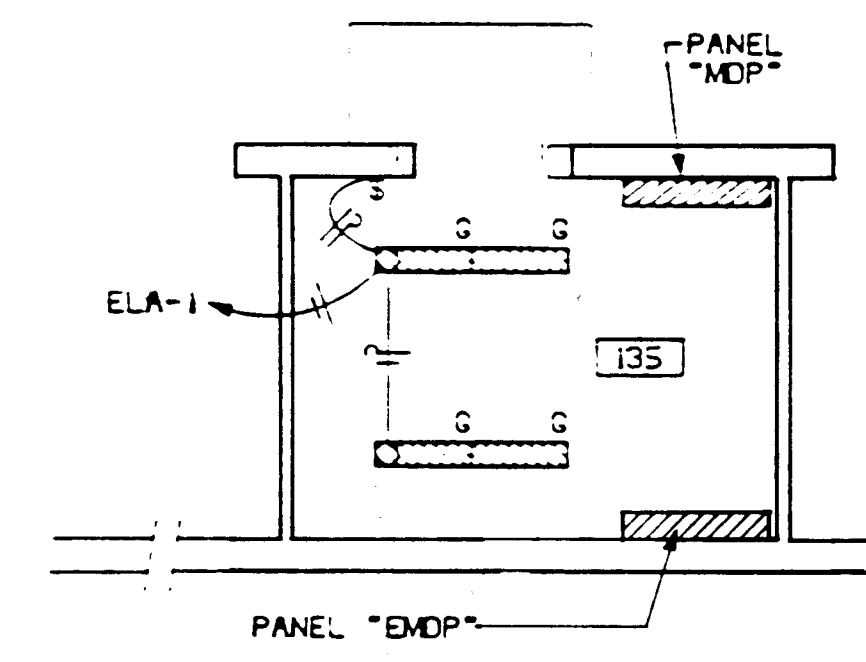
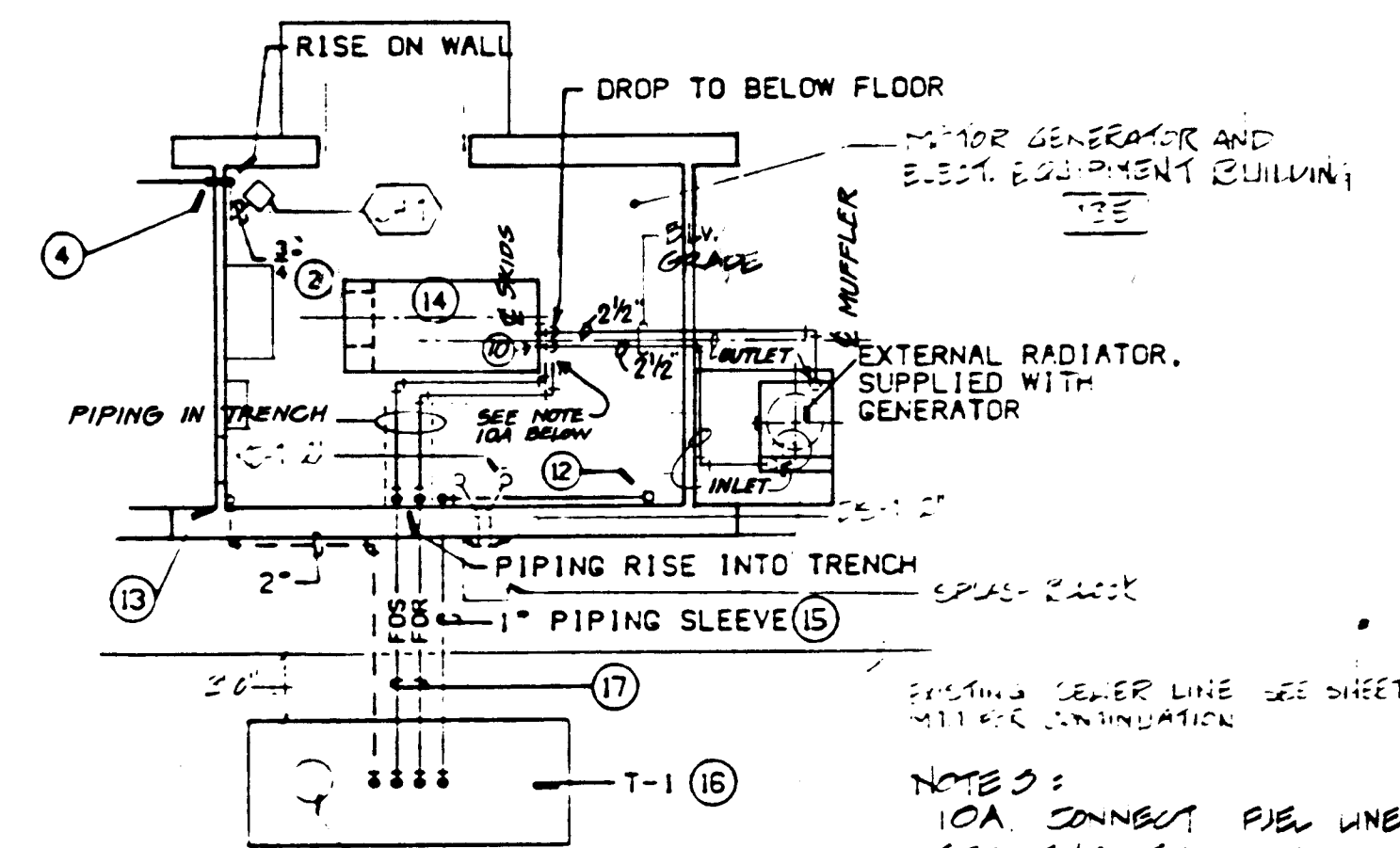
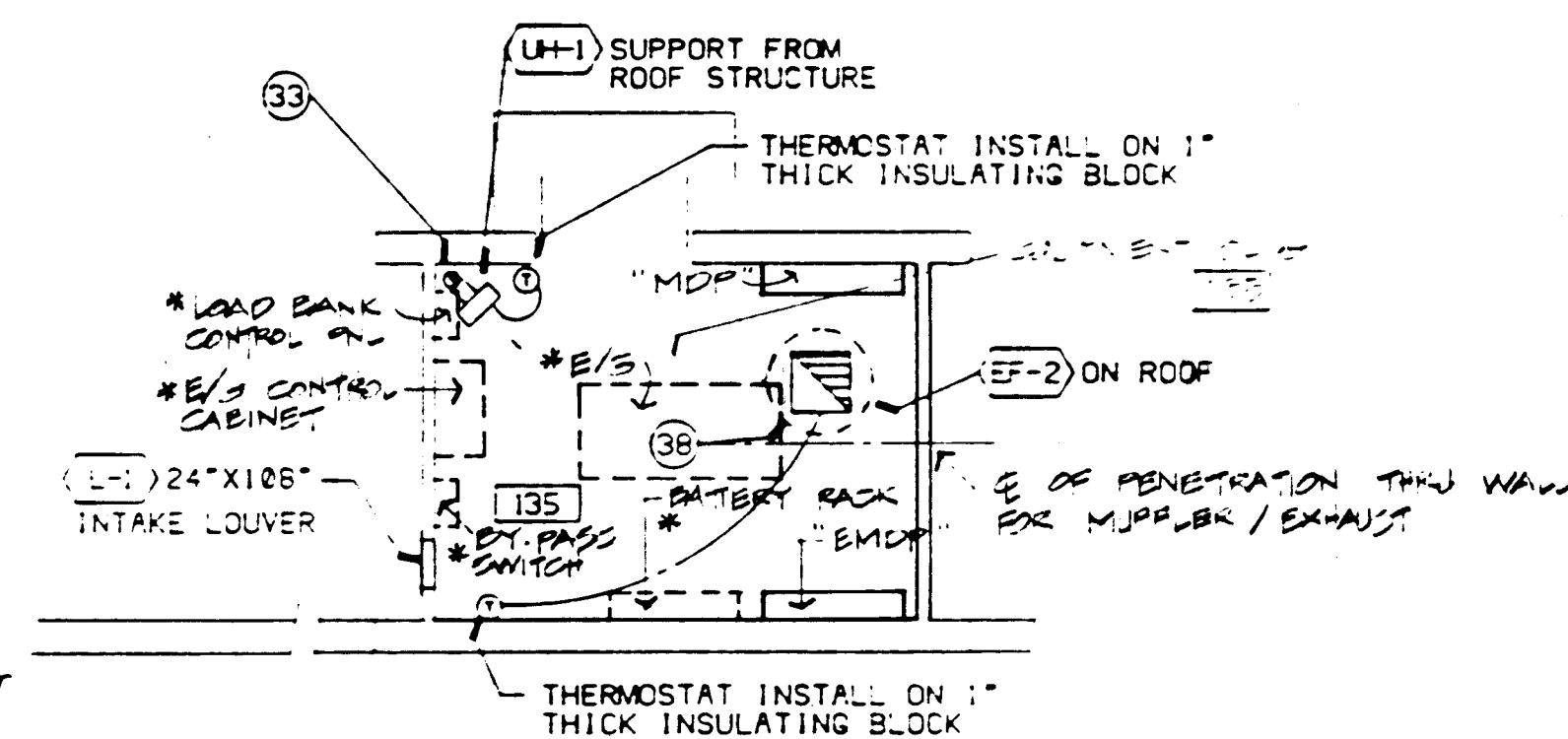
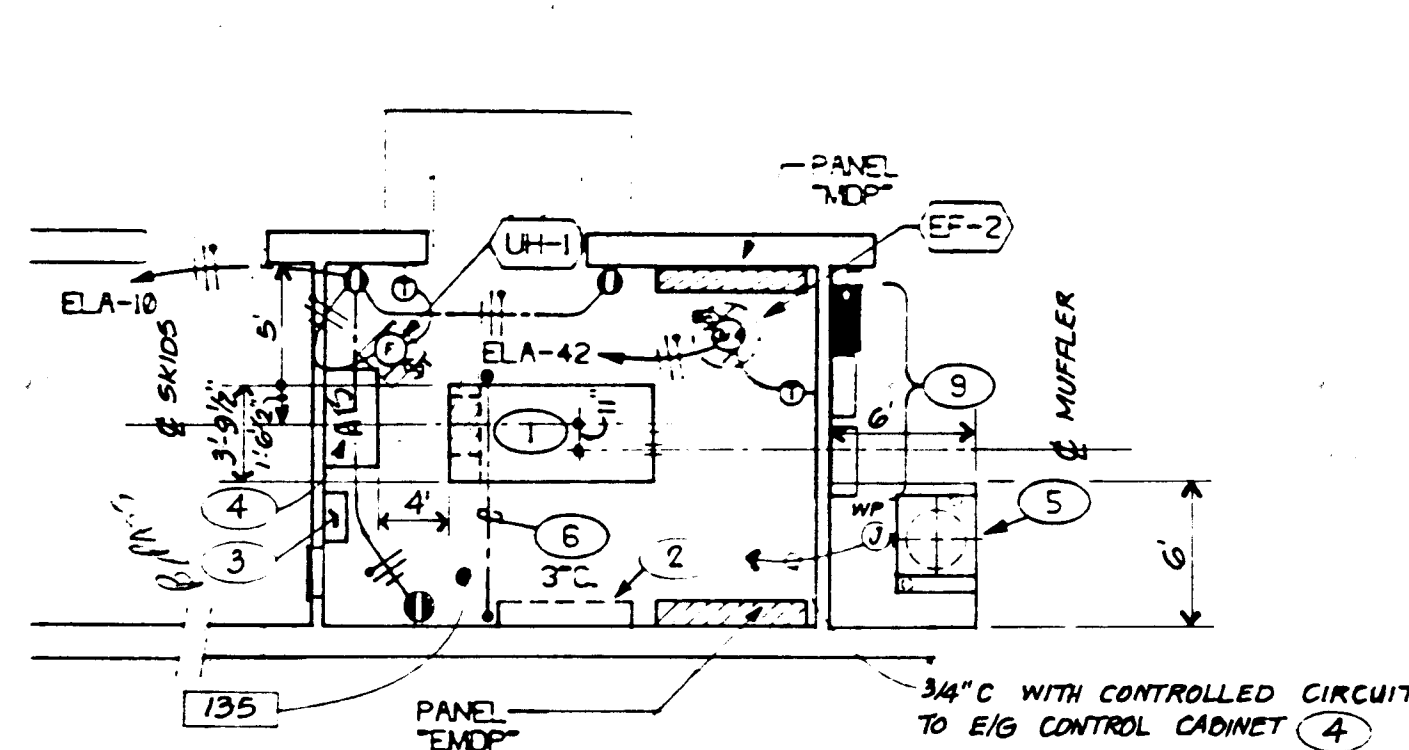


5 ENGINE GENERATOR BLDG. ELEVATIONS
A4.2 1/8"=1'-0"

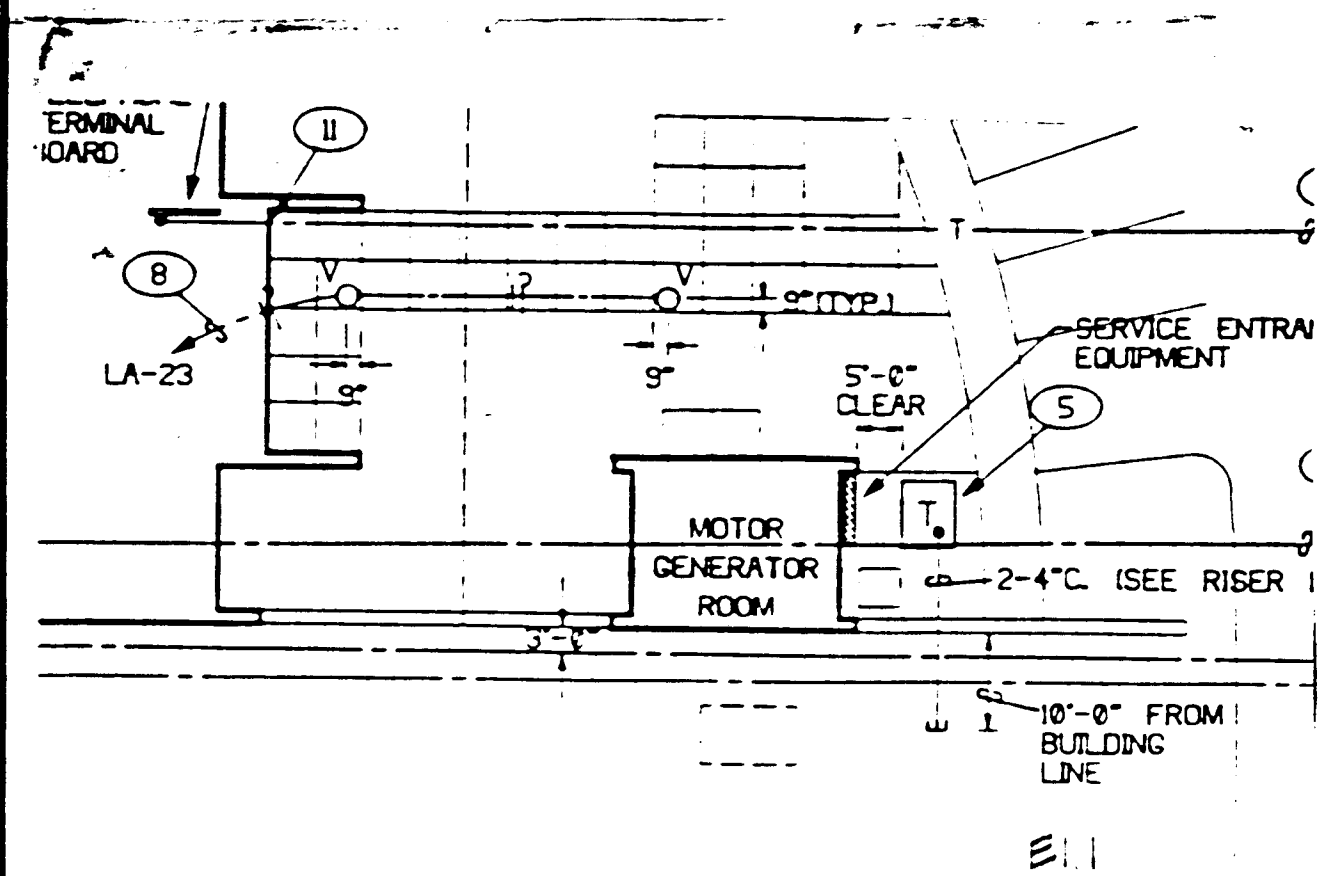
6 E.G. BLDG. SECTION
A4.2 1/4"=1'-0"



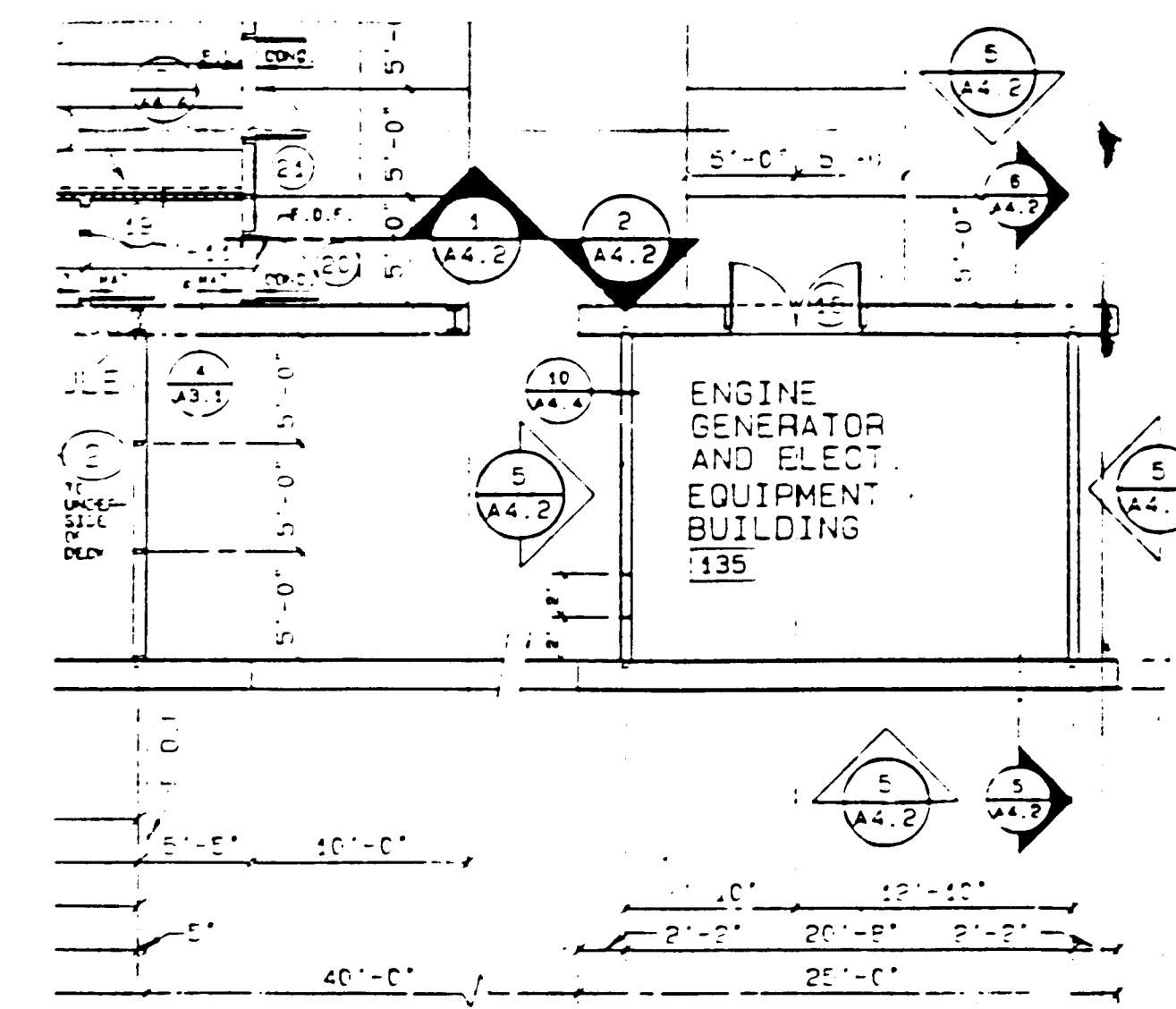
E3.1



E2.1



E1.1



A2.1

THIS DRAWING IS A COMBINATION OF DWSS A2.1, A4.2, M2.2, M2.3, E1.1, E2.1, E2.2, AND E3.1 DESIGNED TO PROVIDE THE CONTRACTOR THE REVISED AND FAA RECOMMENDED FOOTPRINTS OF THE 125 KW E/G AND ASSOCIATED EQUIP'T.

3132

REV		DATE	DESCRIPTION	DFTG	CHECKED	FACILITY	
SUPERVISOR OF SECTION, ASW-		MANAGER OF BRANCH, ASW-		DATE 4 DEC '87			
REVIEWED		ISSUED BY		DRAWING NO.		SW-D-	
ORIG. DPT		AIRWAY FACILITIES DIVISION		DIVISION		N.M.	

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION SOUTHWEST REGION FORT WORTH, TEXAS											
A P S S LAYOUT OF 125 KW ENGINE GENERATOR & ASSOC EQUIP'T											
ADUQUERRE											
SUBMITTED						APPROVED					
SUPERVISOR OF SECTION, ASW-						MANAGER OF BRANCH, ASW-					
REVIEWED						ISSUED BY					
ORIG. DPT						DATE 4 DEC '87					
FACILITY						DRAWING NO.					
						SW-D-					

PANEL SCHEDULES				
DESCRIPTION	CCT. NO.	SWITCH	FUSE	LOAD
PANEL "MDP", 120/208V, 3 PHASE, 4 WIRE, 1200A M.L.O., SURFACE MOUNTED, BOTTOM FEED, GROUND BUS, SWITCH AND FUSE CONSTRUCTION, 65,000 A.I.C., MINIMUM PROVIDE BUSS FUSETRON FUSES FOR VACUUM SYSTEM, AC-1 AND AC-2. REMAINDER SHALL BE BUSS LIMITRON FUSES.	1, 2	30A/3P	15 AMP	VACUUM SYSTEM, SPARE
	3, 4	200A/3P	175 AMP	AC-1, SPARE
	5	400A/3P	200 AMP	PANEL "LA"
	7	600A/3P	600 AMP	PANEL "EMDP"
	6	400A/3P	250 AMP	AC-2
PANEL "EMDP", 120/208V, 3 PHASE, 4 WIRE, 600A M.L.O., SURFACE MOUNTED, BOTTOM FEED, GROUND BUS, SWITCH AND FUSE CONSTRUCTION, 65,000 A.I.C., MINIMUM PROVIDE BUSS FUSETRON FUSES FOR VACUUM SYSTEM, AC-3. REMAINDER SHALL BE BUSS LIMITRON FUSES.	1, 2	100A/3P	100 AMP	SPARE, PANEL "ELD"
	3, 4	200A/3P	150 AMP	SPARE, PANEL "ELA"
	5, 6, 7	200A/3P	200 AMP	PANEL "ELB", "ELC", "ELE"
	8	400A/3P	250 AMP	AC-3
PANEL SCHEDULES				
DESCRIPTION	CCT. NO.	C/B	WIRE	LOAD
PANEL "LA", 120/208V, 3 PHASE, 4 WIRE, 400A M.L.O., SURFACE MOUNTED, BOTTOM FEED, GROUND BUS, 60 POLES 10,000 A.I.C., TWO SECTION.	1 THRU 5	20A/1P	#12	LTG., RECEPTACLES, MECHANICAL, SPARES
	57, 58, 61, 62	20A/2P	#12	MECHANICAL EQUIPMENT
	65, 66	30A/2P	#10	
	69, 70	35A/2P	# 8	
PANEL "ELA", 120/208V, 3 PHASE, 4 WIRE, 225A M.L.O., SURFACE MOUNTED, BOTTOM FEED, GROUND BUS, 42 POLES 10,000 A.I.C.	1 THRU 30	20A/1P	#12	LTG., RECEPTACLES, MECHANICAL, SPARES
	31 THRU 41	1 POLE	---	SPARES
	42	30A/1P	#10	EXHAUST FAN
PANEL "ELB", 120/208V, 3 PHASE, 4 WIRE, 225A MAINS, 100A/3P MCB, SURFACE MOUNTED, BOTTOM FEED, FULL SKIRTS, GROUND BUS 10,000 A.I.C.	1 THRU 42	20A/1P	#12	FIRE ALARM, SPARES
PANEL "ELC", 120/208V, 3 PHASE, 4 WIRE, 225A MAINS, 200A MCB, SURFACE MOUNTED, BOTTOM FEED, GROUND BUS, FULL SKIRTS, 10,000 A.I.C., 42 POLES.	1 THRU 30	20A/1P	#12	DOOR CONTROL, SPARES
	31 THRU 42	30A/1P	---	SPARES
PANEL "ELD", 120/208V, 3 PHASE, 4 WIRE, 100A MAINS, 50A/3P MCB, SURFACE MOUNTED, BOTTOM FEED, GROUND BUS, FULL SKIRTS, 10,000 A.I.C., 24 POLES.	1 THRU 18	20A/1P	---	SPARES
	19 THRU 24	1 POLE	---	SPACES
PANEL "ELE", 120/208V, 3 PHASE, 4 WIRE, 225A MAINS, 100A/3P MCB, SURFACE MOUNTED, BOTTOM FEED, GROUND BUS, FULL SKIRTS, 10,000 A.I.C., 42 POLES.	1 THRU 42	20A/1P	#12	DOOR CONTROL, SPARES

NOTE: CIRCUIT NUMBERING IS BY POLE POSITION.

FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMPS	MOUNTING
A	WILLIAMS #5223 WITH SLP #NPSQ-A-245 LOUVER	3/F40/CW	RECESSED
B	WILLIAMS #5262 WITH SLP #NPSQ-A-225 LOUVER	2/U40/CW	RECESSED
C	WILLIAMS #5223-RWKA.125	3/F40/CW	RECESSED
D	WILLIAMS #5223 WITH SLP #NPSQ-A-245 LOUVER AND DIMMABLE BALLASTS	3/F40/CW	RECESSED
E	UTILITY STRIP WITH WIREGUARD	2/F40/CW	SURFACE
F	WILLIAMS #EPF-S222-RWKA.125	2/F40/CW	RECESSED
G	WILLIAMS #8525 WITH WIREGUARD	2/F40/CW	PENDANT UP 8'-6"
H	WILLIAMS #5222-RWA.125	2/U40/CW	RECESSED
K	WILLIAMS #EPF-S122-RWKA.125	2/F40/CW	RECESSED
L	PEERLESS #LD6-520202-D-9'-8" 45° AIMING ANGLE (UP) WITH SOFTSHINE WIDE SPREAD LENS	4/F40/CW	WALL BRACKET SEE DETAIL
M	PEERLESS #LD6-520202-D-14'-8" 45° AIMING ANGLE (UP) WITH SOFTSHINE WIDE SPREAD LENS	6/F40/CW	WALL BRACKET SEE DETAIL
N	WILLIAMS #5262-RWKA.125	2/U40/CW	RECESSED
P	PRESCOLITE #93057MS-100 M#FE-M71	1/100W/MH	RECESSED
Q	CHLORIDE #CL75-2-S	FURNISH W/ FIXTURE	BRACKET UP 7'-0"
R	WILLIAMS #SM7622	2/F40/CW	CEILING SURFACE IN COVE
S	PEERLESS #LD6-520202-D-19'-8" 45° AIMING ANGLE (UP) WITH SOFTSHINE WIDE SPREAD LENS	8/F40/CW	WALL BRACKET SEE DETAIL
T	PEERLESS #LD6-520202-D-4'-8" 45° AIMING ANGLE (UP) WITH SOFTSHINE WIDE SPREAD LENS	2/F40/CW	WALL BRACKET SEE DETAIL
U	PEERLESS #LD6-520202-D-25'-0" 45° AIMING ANGLE (UP) WITH SOFTSHINE WIDE SPREAD LENS	12/F40/CW	WALL BRACKET SEE DETAIL
Y	GARDCO #CA-22-1-1-120-400MH-BLP WITH #TRS-25-FBC-BLP	1/400W/MH	25' POLE
V	GARDCO #BR800-42-100MH-120-BLP	1/100W/MH	BOLLARD
W	WILLIAMS #EPF-S262-RWKA.125	2/U40/CW	RECESSED
Z	KIM #AFL3-150MH120/BD/BL-E WITH #SM18/BL-E	1/150W/ MH-HQ1-TS150	GROUND
⊗	PRESCOLITE #77221	FURNISH W/ FIXTURE	SEE PLANS

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
○	KEYED NOTE SYMBOL - ELECTRICAL.
⬡	MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL EQUIPMENT SCHEDULE.
WP	WEATHERPROOF.
AFF	ABOVE FINISH FLOOR.
○	CEILING FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
⊗	BRACKET FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
⊗	CEILING MOUNTED EXIT FIXTURE AND OUTLET WITH DIRECTIONAL ARROWS AS INDICATED. TYPE AS INDICATED IN FIXTURE SCHEDULE.
⊗	WALL BRACKET OR RECESSED EXIT FIXTURE AND OUTLET WITH DIRECTIONAL ARROWS AS INDICATED. TYPE AS INDICATED IN FIXTURE SCHEDULE.
⬢	FLUORESCENT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
⬢	LIGHT FIXTURES INDICATED WITH SHADING ARE CONNECTED TO EMERGENCY POWER SOURCE.
⊗	JUNCTION BOX INSTALLED ABOVE THE CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN FIXTURES. MINIMUM 4'-0" LENGTH OF CONDUIT WITH REQUIRED CONDUCTORS ALONG WITH GREEN WIRE GROUND.
⬢	POLE MOUNTED FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
⊗	SINGLE POLE WALL SWITCH. FLUSH MOUNTED UP 48" UNLESS OTHERWISE INDICATED.
⊗	THREE-WAY WALL SWITCH. FLUSH MOUNTED UP 48" UNLESS OTHERWISE INDICATED.
⊗	PILOT SWITCH. FLUSH MOUNTED UP 48" UNLESS OTHERWISE INDICATED.
⊗	THERMAL SWITCH, WEATHERPROOF IF INSTALLED OUTSIDE. FLUSH MOUNTED UP 48" UNLESS OTHERWISE INDICATED.
⊗	DIMMER SWITCH. FLUSH MOUNTED UP 48" UNLESS OTHERWISE INDICATED.
⊗	JUNCTION BOX FLUSH IN WALL, HEIGHT AS INDICATED FOR CONNECTION TO EQUIPMENT.
⊗	DUPLEX CONVENIENCE OUTLET, UP 15" OR AS INDICATED.
⊗	DUPLEX CONVENIENCE OUTLET CONNECTED TO EMERGENCY SOURCE (RED IN COLOR). UP 15" OR AS INDICATED.
⊗	DUPLEX GROUNDING TYPE CONVENIENCE OUTLET INSTALLED WITHIN CASE OF ELECTRIC WATER COOLER.
⊗	GROUND FAULT INTERRUPTING OUTLET, MOUNT 15" UP OR AS INDICATED.
⊗	WEATHERPROOF DUPLEX CONVENIENCE OUTLET, UP 15" OR AS INDICATED. COVER TO BE "HUBBELL" 5206 OR EQUAL.
⊗	50 AMP, 250 VOLT, 3 WIRE RANGE TYPE OUTLET. FLUSH MOUNTED AT HEIGHT INDICATED AND FURNISHED FOR RATED AMPERAGE.
⊗	THERMOSTAT UP 48" UNLESS OTHERWISE INDICATED.
⊗	PHOTOCELL LIGHTING CONTROLLER, PRECISION #T-15 MOUNTED ON 1/2" RIGID CONDUIT STUBBED UP 12" ABOVE ROOF, WITH WINDOW FACING NORTH.
⊗	TELEPHONE OUTLET UP 15" OR AS INDICATED. SEE DETAIL & SPECIFICATIONS FOR CONDUIT REQUIREMENTS.
⊗	FIRE ALARM MANUAL PULL STATION UP 48". SEE SPECIFICATIONS FOR CONDUIT, WIRE AND DEVICE REQUIREMENTS.
⊗	FIRE ALARM AUDIO/VISUAL SIGNAL UP 7'-8" TO CENTER. SEE SPECIFICATIONS FOR CONDUIT, WIRE AND DEVICE REQUIREMENTS.
⊗	F.A. AUTOMATIC DETECTOR. TYPE AS INDICATED (S-SMOKE, H-HEAT, I-IONIZATION & S/H-SMOKE/HEAT). "C"-CEILING MOUNTED, "F"-UNDER RAISED FLOOR.
⊗	GROUND ROD 3/4" x 10'-0" LONG.
⊗	TRANSFORMER AS NOTED.
⊗	SPECIAL CABINET, TELEPHONE TYPE OR AS NOTED.
⊗	LIGHTING BRANCH CIRCUIT PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
⊗	MOTOR CONNECTION WITH HP INDICATED.
⊗	MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (LESS THAN 1/3 HP). PROVIDE THERMAL O.L. SWITCH ADJACENT TO ALL MOTORS UNLESS SWITCH IS SHOWN ELSEWHERE ON PLAN.
⊗	MOTOR CONTROLLER, SIZE AND POLES FOR MOTOR FURNISHED.
⊗	SAFETY SWITCH, TO HAVE POLES AND RATING REQUIRED. TO BE NEMA 3R IF INSTALLED OUTDOORS.
⊗	SAFETY SWITCH, TO HAVE POLES AND RATING REQUIRED. TO BE NEMA 3R IF INSTALLED OUTDOORS. PROVIDE FUSES AT 125% F.L.A. OF UNIT UNLESS OTHERWISE INDICATED.
⊗	BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED.
⊗	BRANCH CIRCUIT IN WALLS OR UNDER FLOOR WITH CONDUCTORS INDICATED.
⊗	HOME RUN TO PANEL WITH BRANCH CIRCUIT NUMBERS INDICATED.
⊗	TIC MARKS REPRESENT NEUTRAL, HOT, SWITCH LEG, AND GROUND CONDUCTORS RESPECTIVELY.



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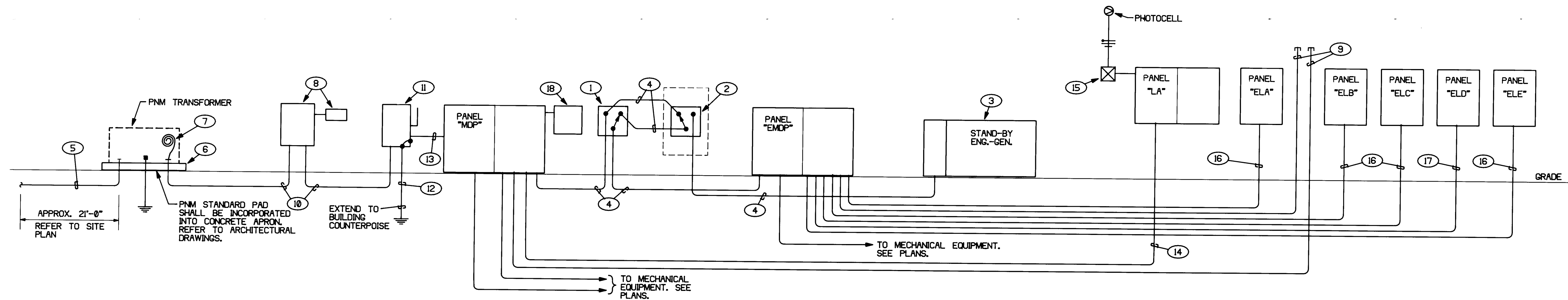
APPROVED *[Signature]* 5/23/87
DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
SCHEDULES
SHEET

E6.I
SHEET 41 OF 41

1 2 3 4 5 6 7 8 9 10 11 12
26 31 32 45 8 9



POWER RISER DIAGRAM
SCALE: NONE

NOTE: PVC CONDUIT SHALL NOT BE USED ON THIS PROJECT UNLESS SPECIFICALLY CALLED FOR ON PLANS.

LOAD SUMMARY - 120/208V, 3 PH, 4W

	CONNECTED	ESTIMATED DEMAND
PANEL "MDP" -----	340 KW	326 KW

SHORT CIRCUIT AVAILABILITY

BASED ON MAXIMUM BUILDING TRANSFORMER S.C. LET THROUGH WITH UNLIMITED PRIMARY S.C. CURRENT.

ASSUME BUILDING TRANSFORMER = 300 KVA
TRANSFORMER IMPEDANCE (XZ) = 2%

S.C.A. = 60,000 AMPS AT SECONDARY SIDE OF TRANSFORMER
S.C.A. = 42,147 AMPS AT LINE SIDE OF "EMOP" LARGEST SWITCH
S.C.A. = 11,500 AMPS AT LOAD SIDE OF "EMOP" LARGEST SWITCH
S.C.A. = 9,800 AMPS AT LINE SIDE OF "LA"

PROVIDE BUSS LIMITRON FUSES FOR MAIN SWITCH. PROVIDE 200,000 A.I.C. AND BRACING FOR MAIN SWITCH, "MDP" AND "EMOP".

ENERGY CONSERVATION

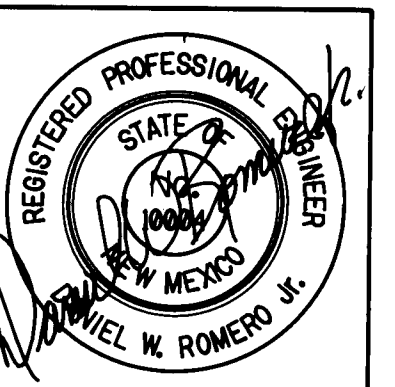
THE PLANS AND SPECIFICATIONS ARE DESIGNED IN CONFORMANCE WITH THE STATE OF NEW MEXICO ELECTRIC CODE, ARTICLE 290 ENERGY CONSERVATION.

LIGHTING BUDGET

19,900 WATTS / 10,432 SQ. FT. = 1.9 W/SQ. FT.

KEYED NOTES

- (1) GOVERNMENT FURNISHED "BY-PASS SWITCH".
- (2) GOVERNMENT FURNISHED "AUTO-TRANSFER SWITCH" (IN ENGINE CONTROL CONSOLE).
- (3) GOVERNMENT FURNISHED "STAND-BY ENGINE GENERATOR".
- (4) PARALLEL RUN OF TWO 3" CONDUITS EACH CONTAINING 4-350 MCM-THW AND 1 #1/0 GROUND CONDUCTORS.
- (5) TWO 4" CONDUITS.
- (6) CONCRETE TRANSFORMER PAD, PER PNM DRAWING #DS-7-16.7.
- (7) COIL EXCESS CONDUCTORS PER PNM REQUIREMENTS.
- (8) C.T. AND METERING PER PNM DRAWING #DS-19-15.1.
- (9) EXTEND 3" CONDUIT TO CEILING SPACE OF MECHANICAL ROOM FOR FUTURE EXTENSION.
- (10) PARALLEL RUN OF FOUR 3" CONDUITS EACH CONTAINING 4-350 MCM-THW CONDUCTORS.
- (11) 1200A/3P + SN, 240 VOLT, FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. FUSE SWITCH WITH 1000 AMP BUSS LIMITRON FUSES.
- (12) 1 #3/0 BSD COPPER SERVICE GROUND IN 3/4" CONDUIT.
- (13) PARALLEL RUN OF FOUR 3" CONDUITS EACH CONTAINING 4-350 MCM-THW AND 1 #3/0 GROUND CONDUCTORS.
- (14) 4-350 MCM-THW AND 1 #4 GROUND IN 3" CONDUIT.
- (15) LIGHTING CONTACTOR. ASCO #917 20 AMP, 6 POLE, 120 VOLT COIL IN NEMA 1 ENCLOSURE, ADJACENT TO PANEL "LA", TO SERVE EXTERIOR LIGHTING CIRCUITS LA-23, 25, 26, 27, 29, 31. PROVIDE H-O-A SWITCH IN COVER.
- (16) 4 #3/0 THW AND 1 #6 GROUND IN 2" CONDUIT.
- (17) 4 #1/0 THW AND 1 #6 GROUND IN 2" CONDUIT.
- (18) SURGE ARRESTOR, LIGHTNING PROTECTION CORP. MODEL #LPC-10264.



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APPROVED: *[Signature]* DATE: 5/28/87

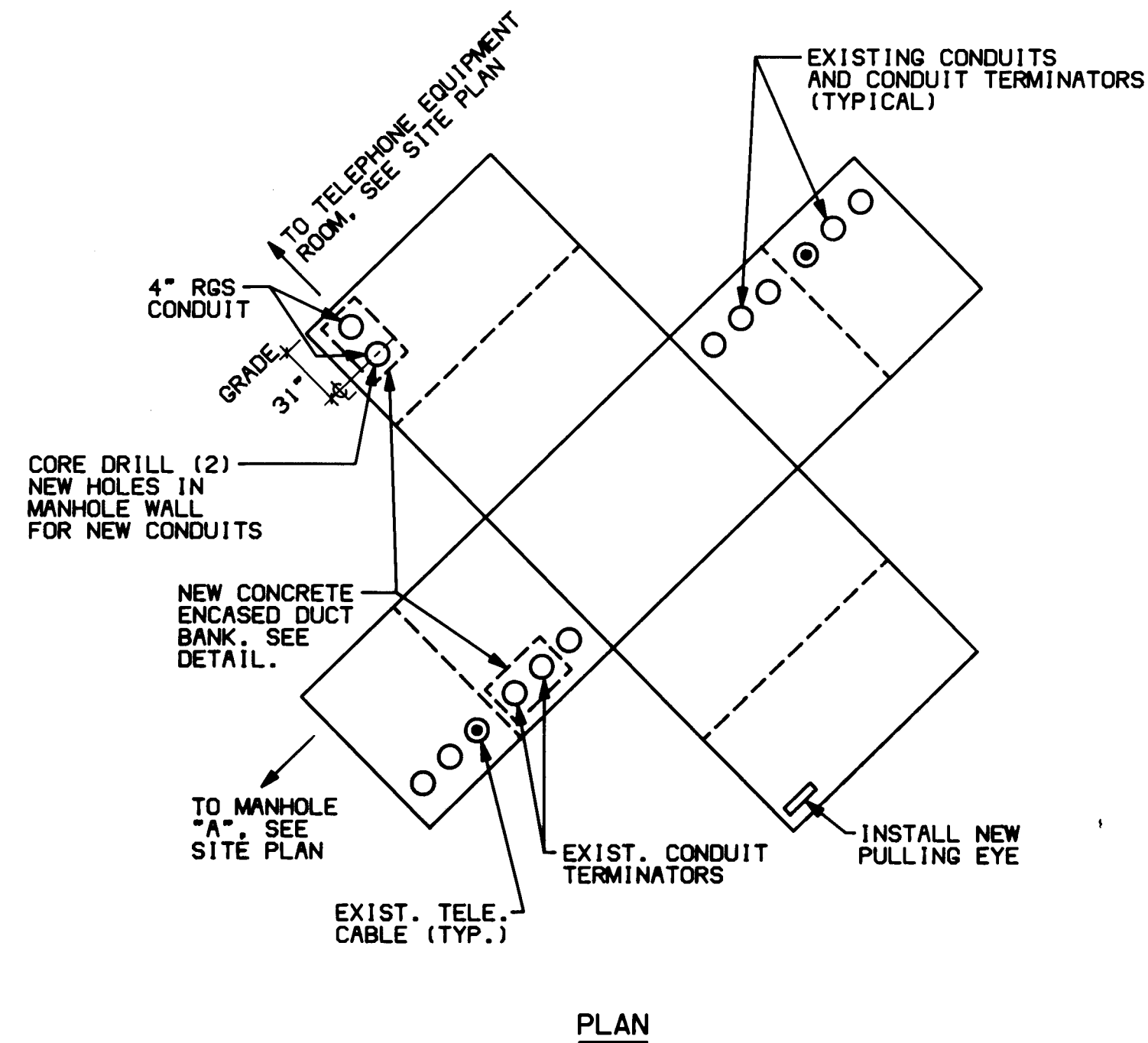
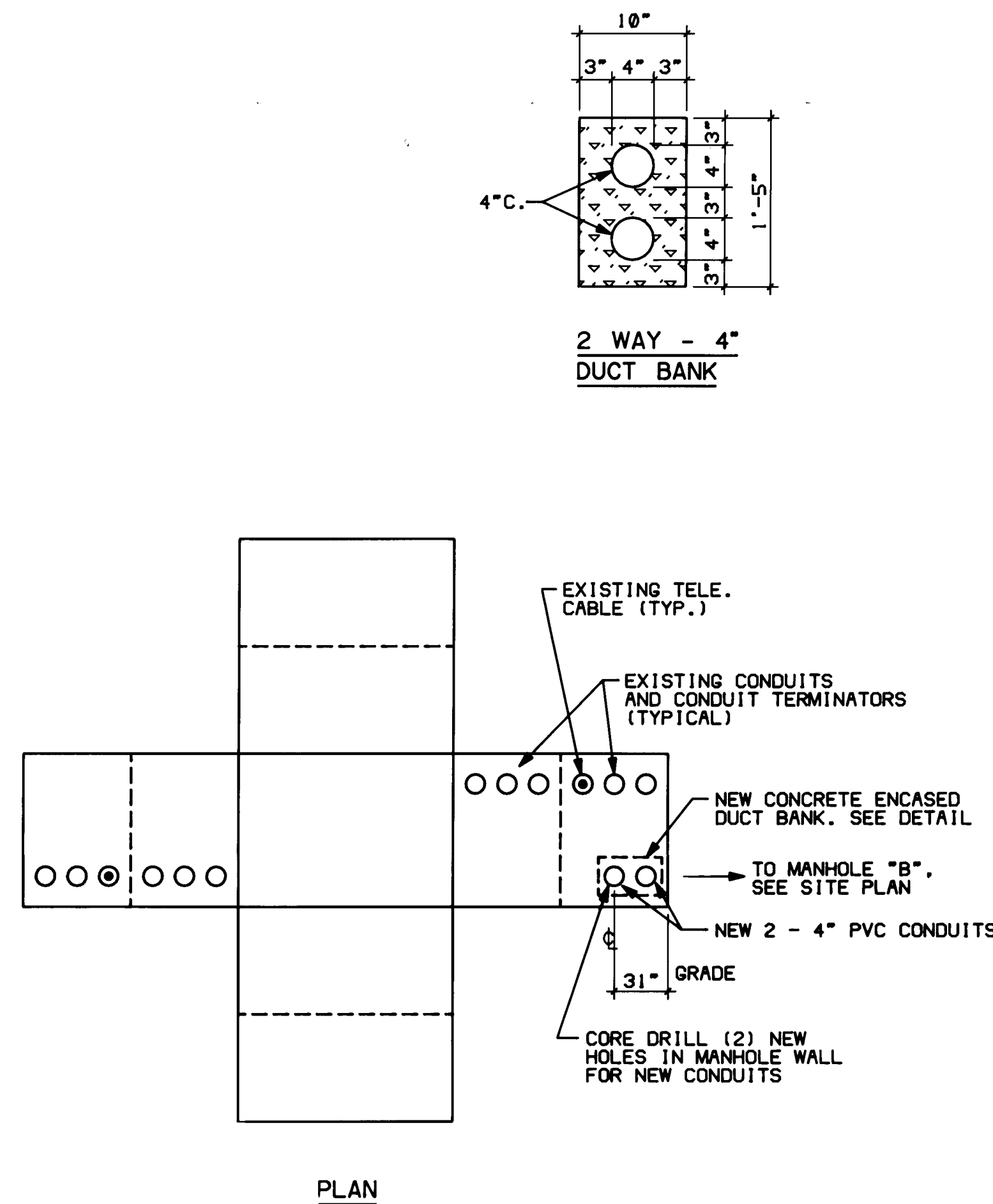
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PROJECT: 86007
REVISIONS:

TITLE
POWER
RISER
DIAGRAM
SHEET

E5.1

SHEET 40 OF 41

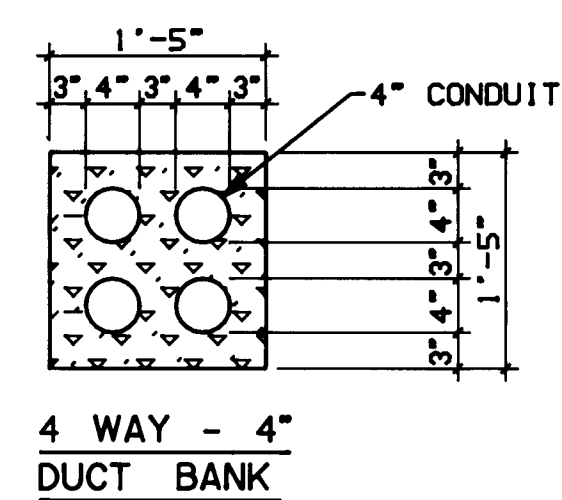
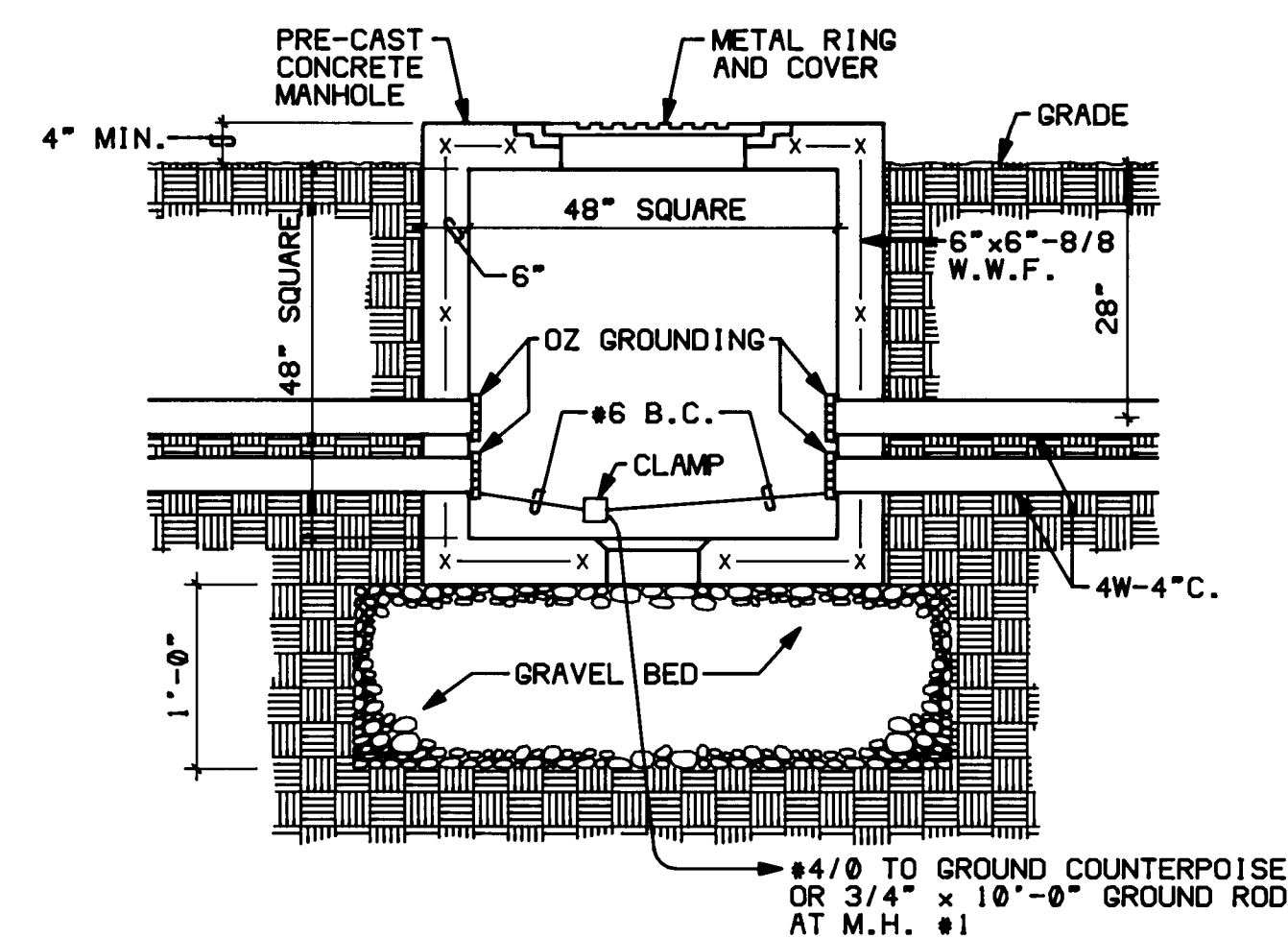
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26 31 32 41 49



TELEPHONE MANHOLE DETAILS

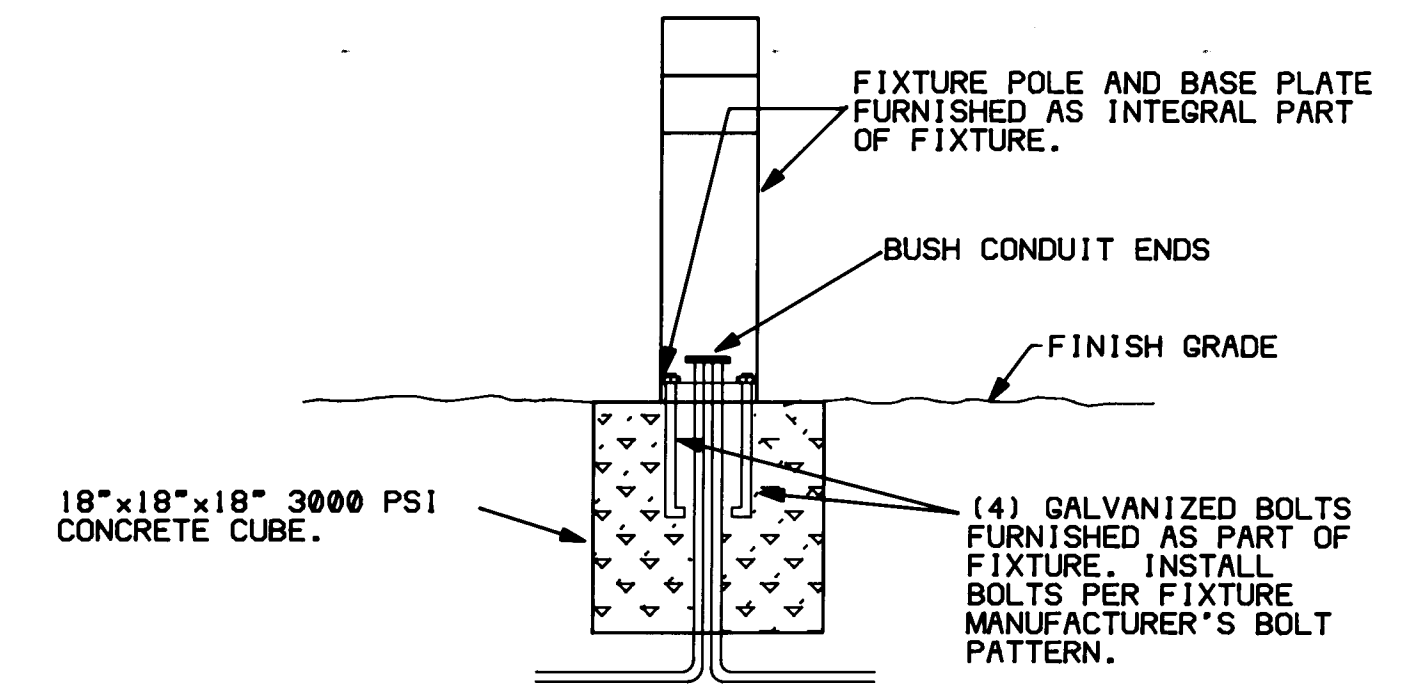
SCALE: NONE

NOTE: CONTRACTOR SHALL VERIFY EXISTING CONDUIT TERMINATOR DEPTH DIMENSIONS IN MANHOLES PRIOR TO ROUGH-IN.



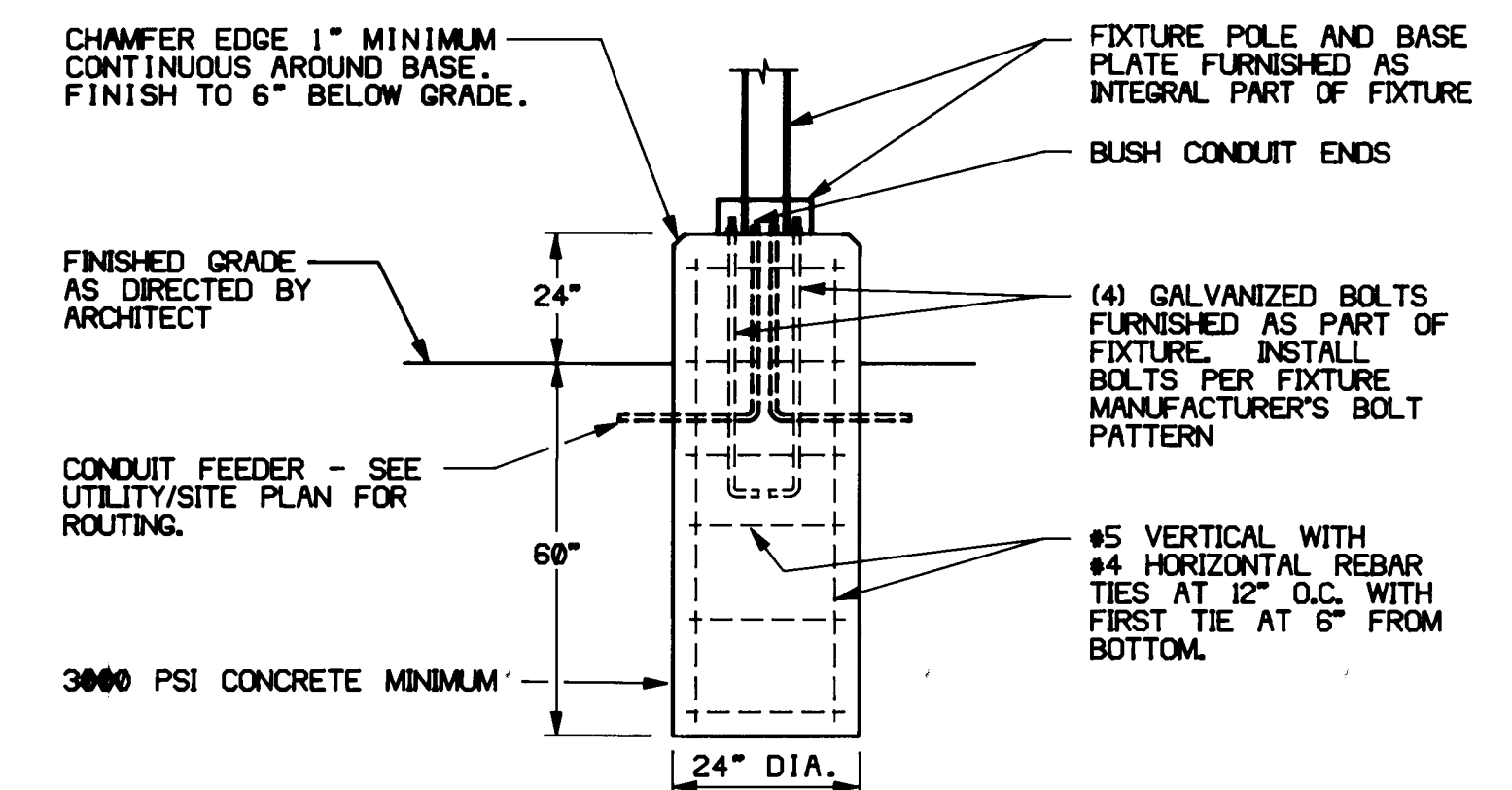
COMMUNICATIONS MANHOLE DETAIL

SCALE: NONE



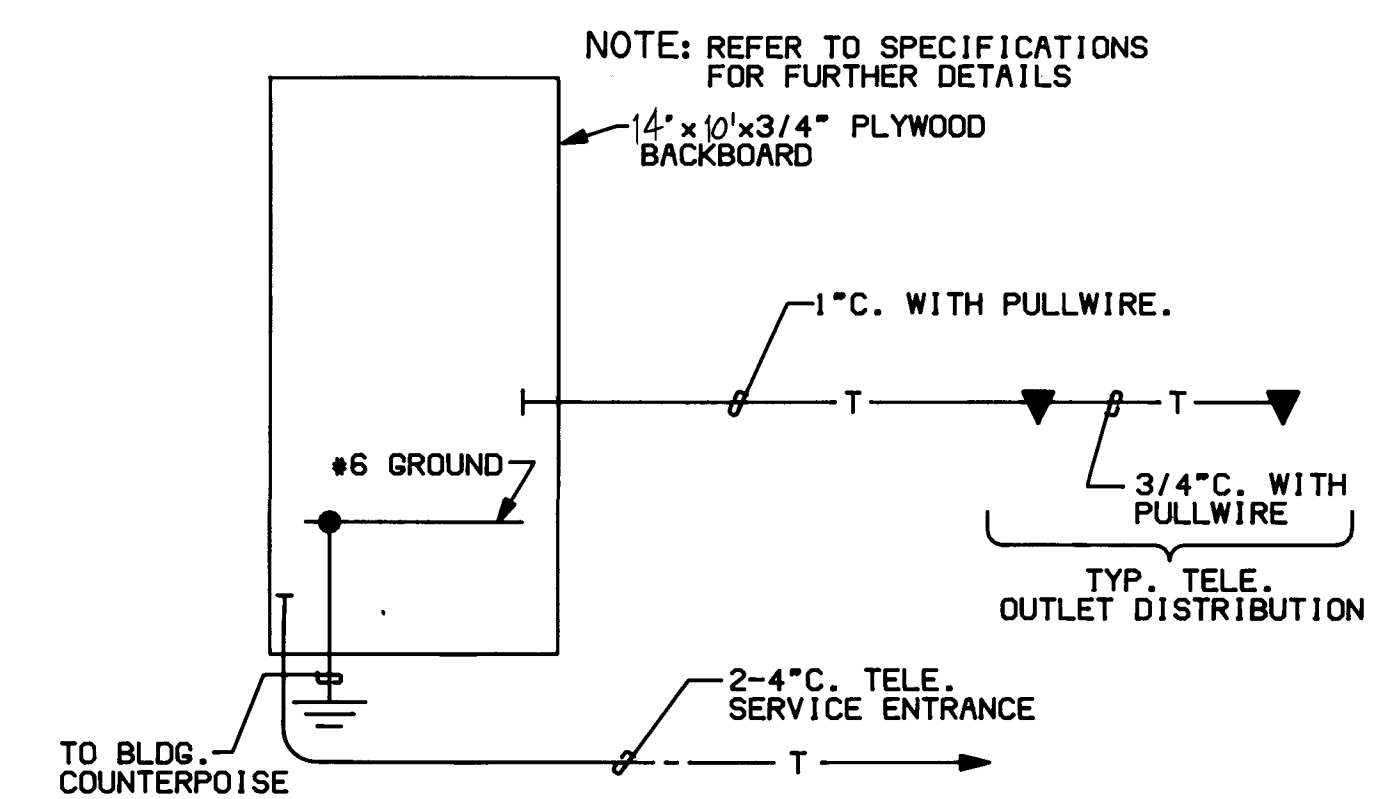
FIXTURE TYPE "V" MOUNTING DETAIL

SCALE: NONE



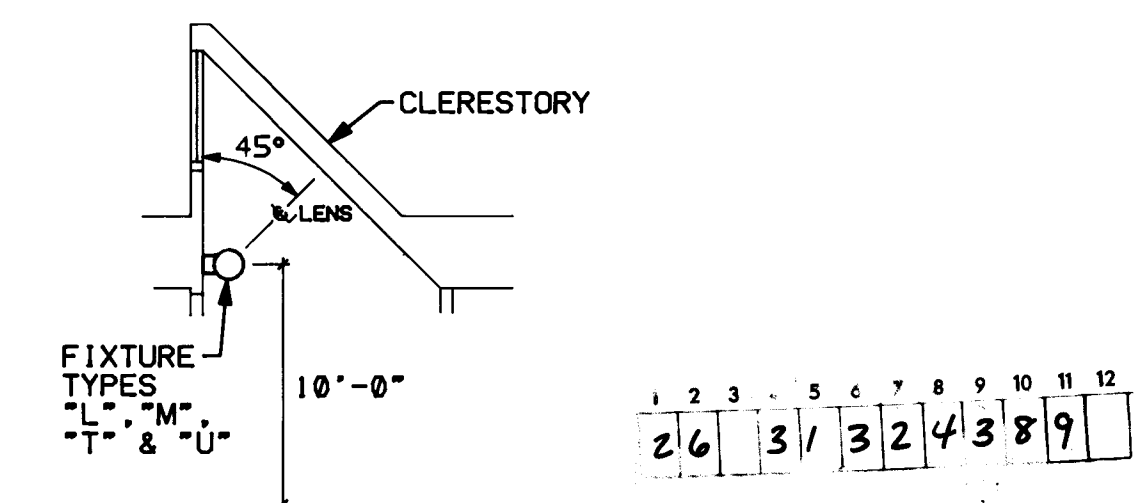
FIXTURE TYPE "Y" MOUNTING DETAIL

SCALE: NONE



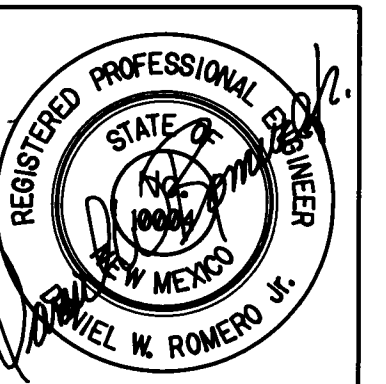
TELEPHONE RISER DIAGRAM

SCALE: NONE



FIXTURE MOUNTING DETAIL

SCALE: NONE



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APPROVED DATE 5/21/87

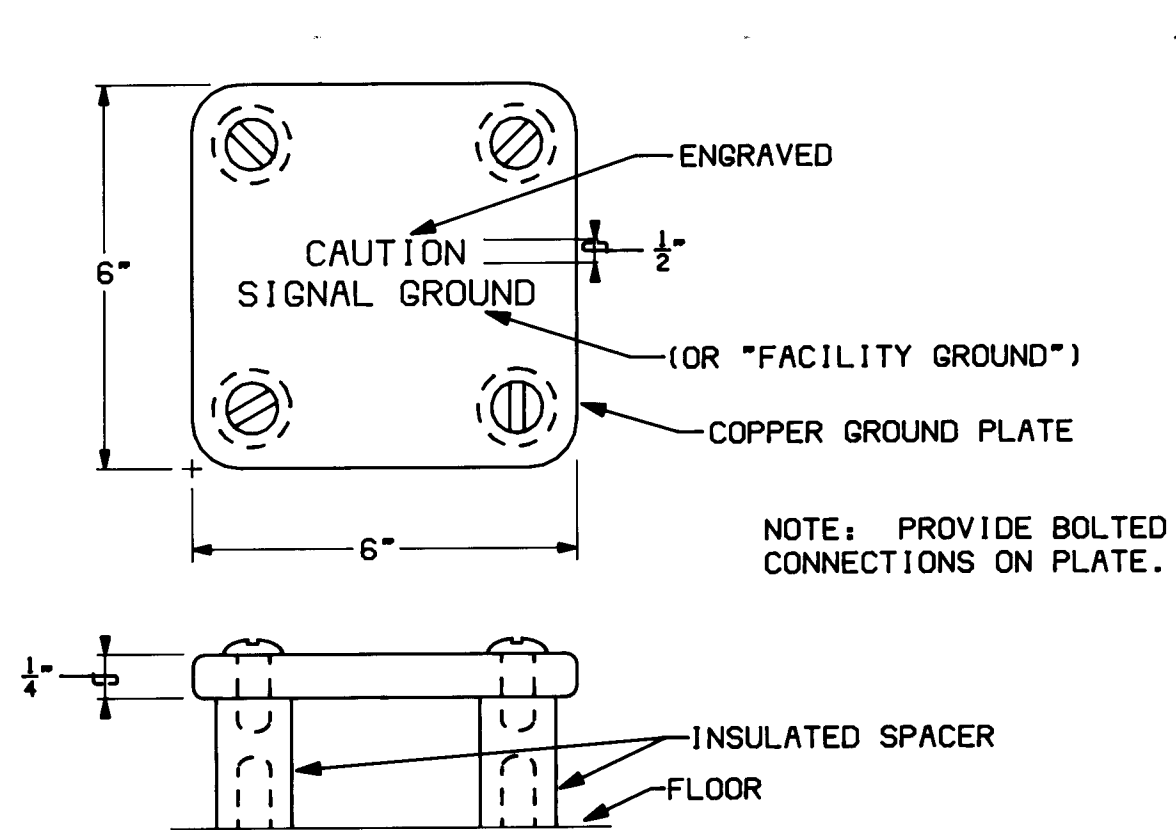
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PROJECT: 86007
REVISIONS:

TITLE
DETAILS

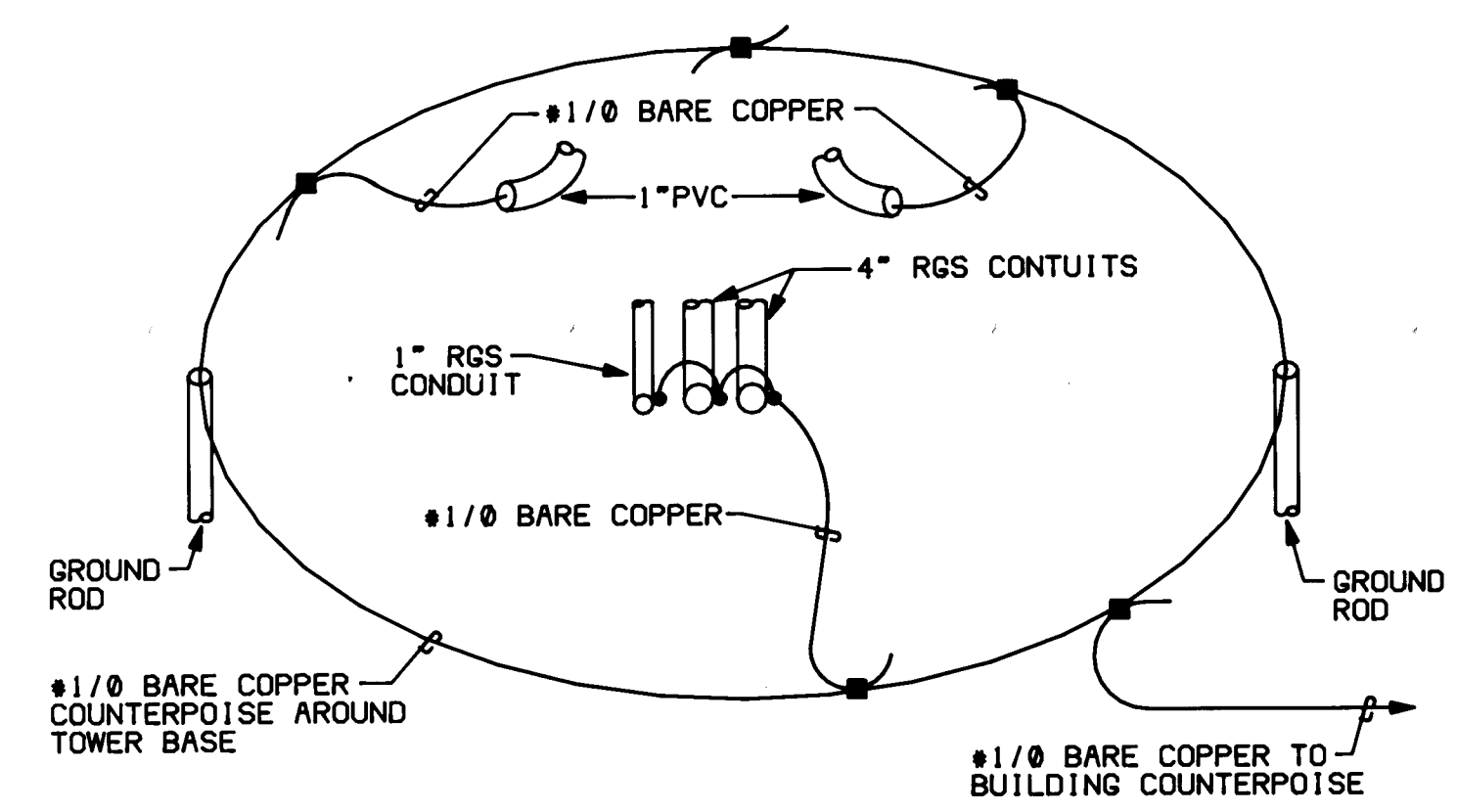
SHEET

E4.1

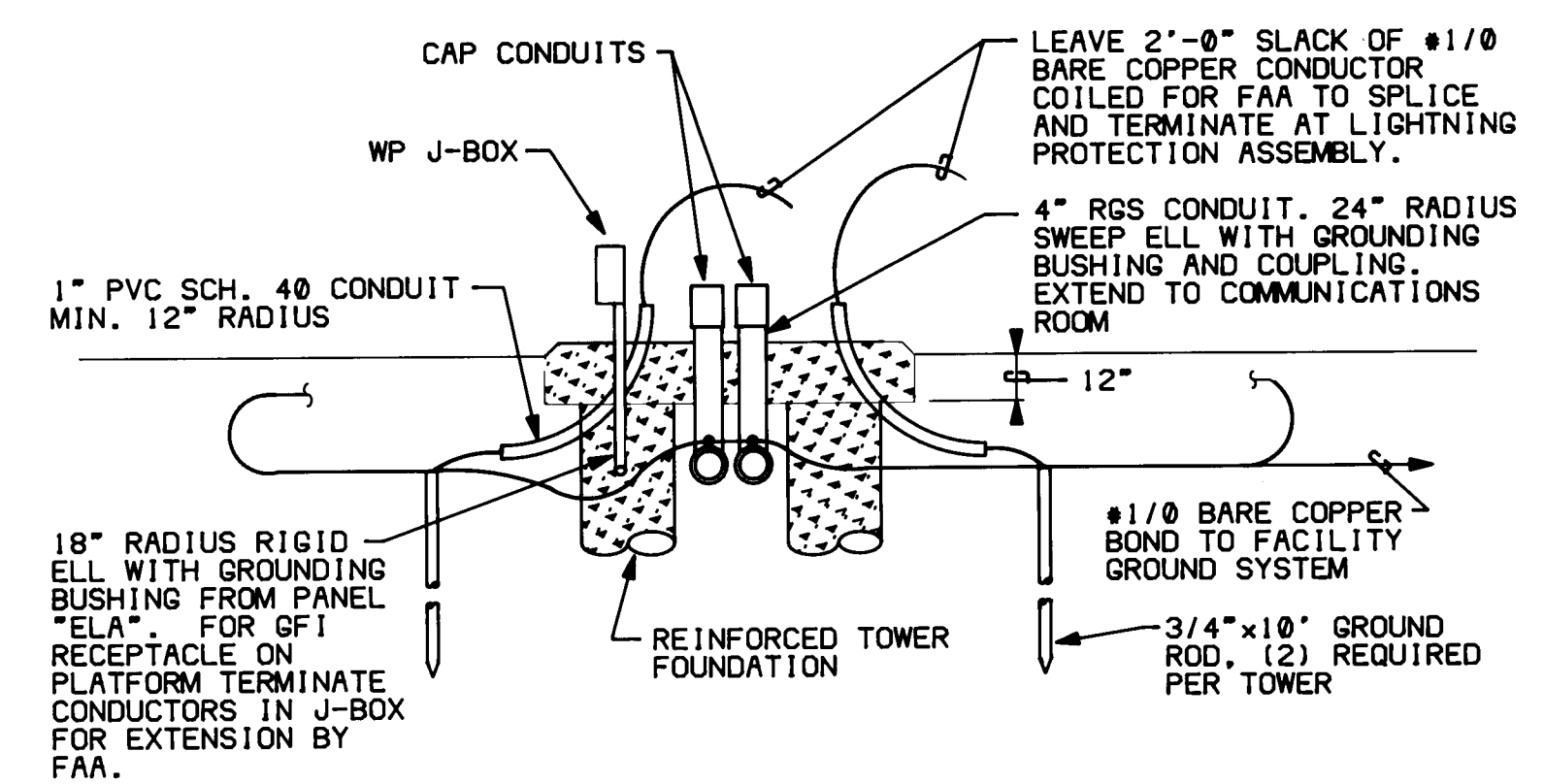
SHEET 39 OF 41



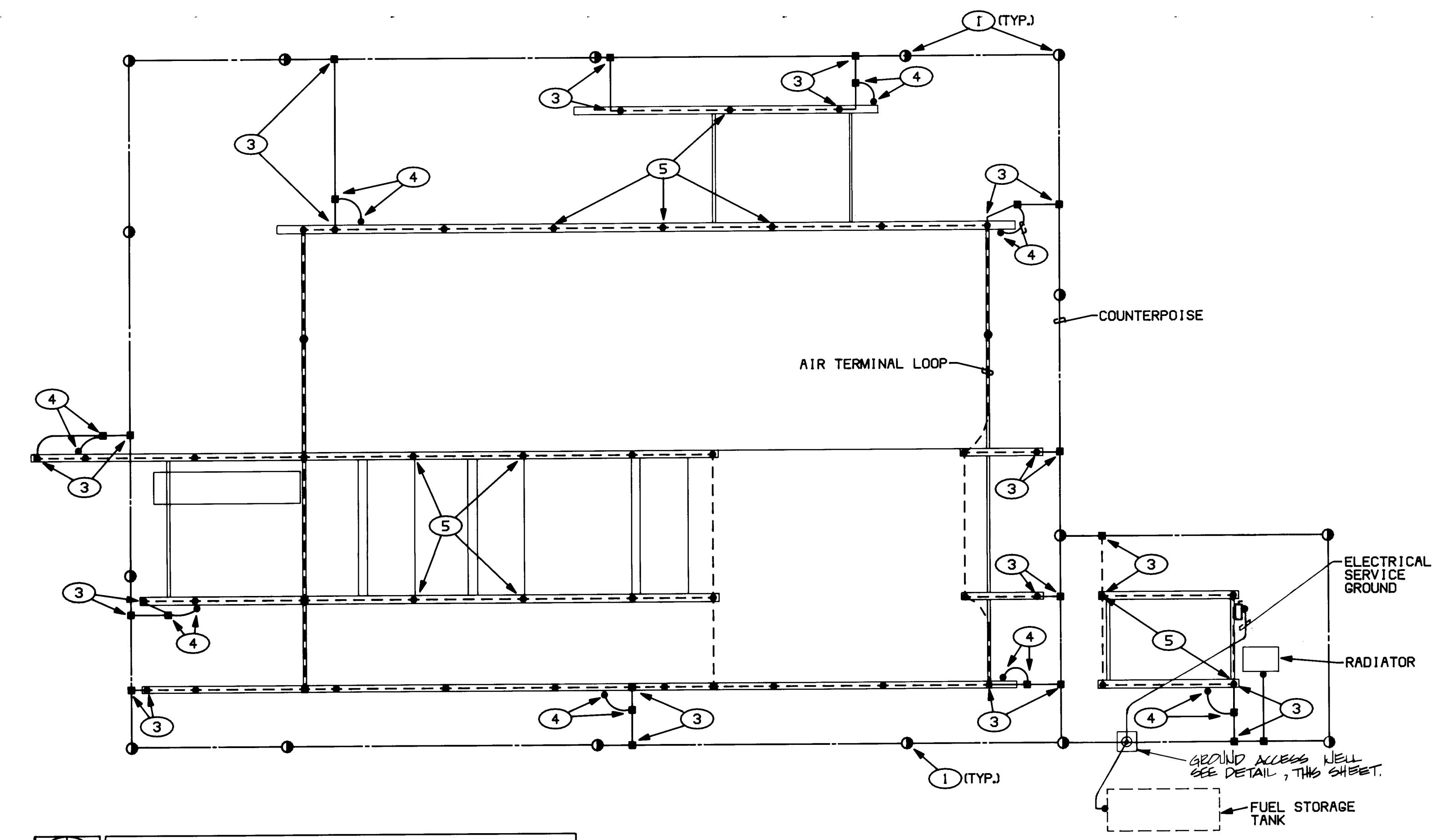
GROUND PLATE DETAIL
SCALE: NONE



TOWER COUNTERPOISE
SCALE: NONE



TOWER FOUNDATION ELEVATION
SCALE: NONE



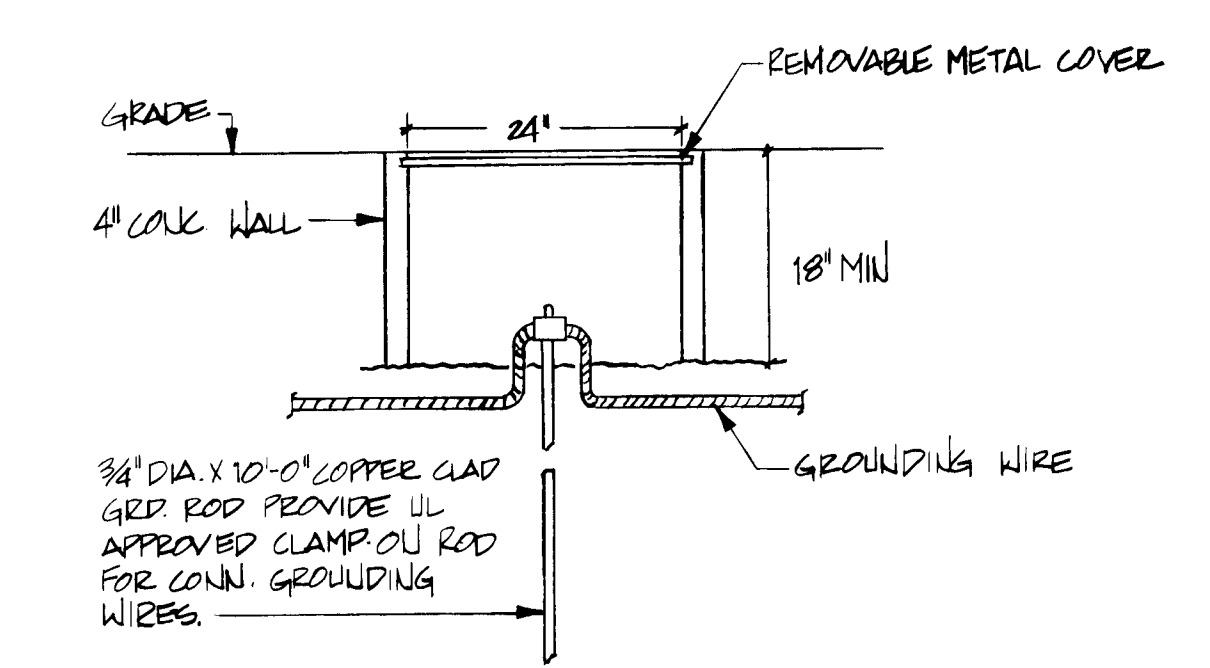
LIGHTNING PROTECTION PLAN
1/16" = 1'-0"

GENERAL NOTES

1. LIGHTNING PROTECTION CONDUCTORS SHALL BE #1/0 COPPER (CLASS I INSTALLATION).
2. GROUND RODS SHALL BE 3/4" X 10'-0" LONG COPPER CLAD.
3. ALL EXPOSED CONNECTIONS SHALL BE MECHANICAL TYPE AND ALL CONCEALED CONNECTIONS SHALL BE CADWELL PROCESS.
4. ALL "DOWN CONDUCTORS" FROM AIR TERMINAL LOOP TO COUNTERPOISE SHALL BE RUN CONCEALED.
5. ENTIRE LIGHTNING PROTECTION AND COUNTERPOISE SYSTEM SHALL MEET LIGHTNING PROTECTION INSTITUTE STANDARD REQUIREMENTS. FURNISH SUBMITTALS SHOWING COMPLETE AND DETAILED PROTECTION PLAN. SYSTEM SHALL BE AS MANUFACTURED BY THOMPSON, OR EQUIVALENT. CONTRACTOR SHALL PROVIDE A LPI CERTIFIED LABEL FOR THE BUILDING LIGHTNING PROTECTION SYSTEM.
6. ALL EXPOSED AND "DOWN CONDUCTORS" SHALL MEET A CLASS I LIGHTNING PROTECTION CABLE.
7. REFER TO SPECIFICATIONS FOR FURTHER DETAILS.

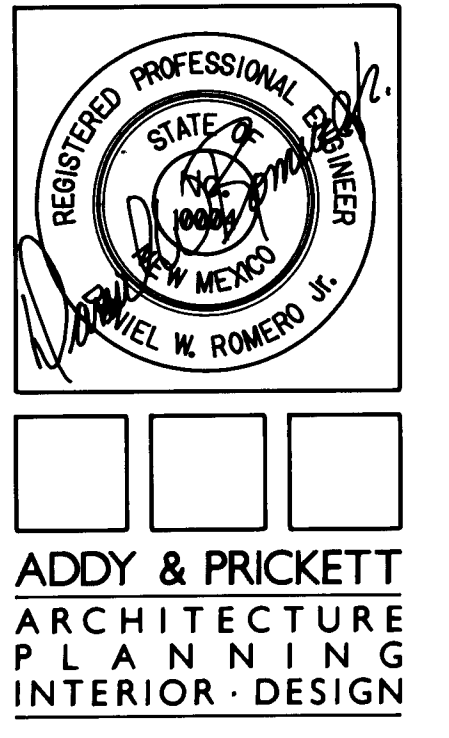
KEYED NOTES

- 1 GROUND ROD.
- 2 BOND MECHANICAL EQUIPMENT TO COUNTERPOISE.
- 3 EXTEND "DOWN CONDUCTOR" FROM AIR TERMINAL LOOP TO COUNTERPOISE.
- 4 BOND STRUCTURAL STEEL, REBAR, ETC., TO COUNTERPOISE.
- 5 AIR TERMINALS (TYPICAL).



GROUND ACCESS WELL DETAIL
SCALE: NONE

1	2	3	4	5	6	7	8	9	10	11	12
26	31	32	42	89							



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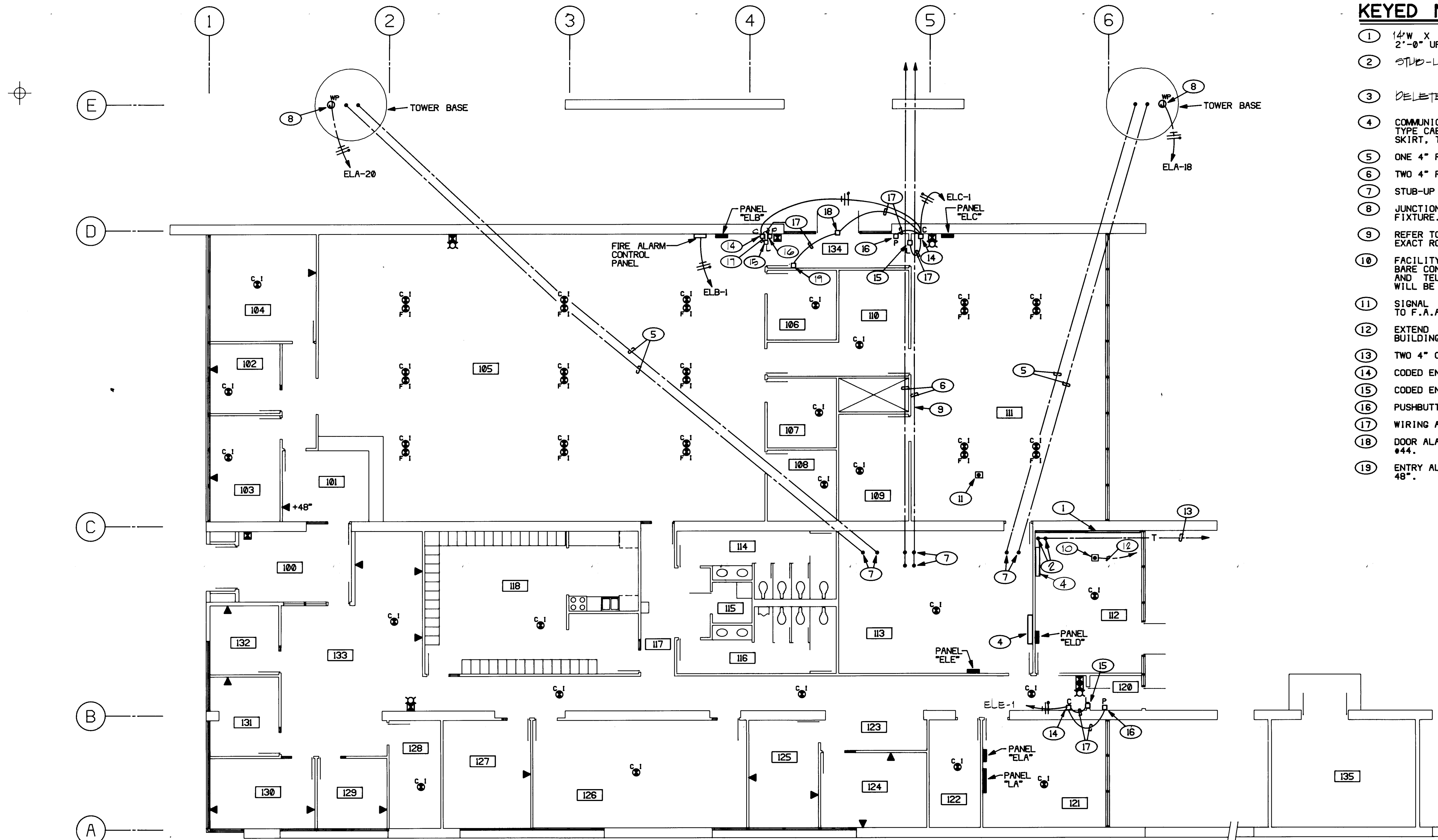
Pen. Shinto 5/26/87
APPROVED DATE

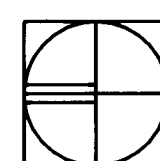
DATE: 5/21/87
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REVISIONS:

TITLE
LIGHTNING
PROTECTION
PLAN
SHEET

E3.1

SHEET 38 OF 41



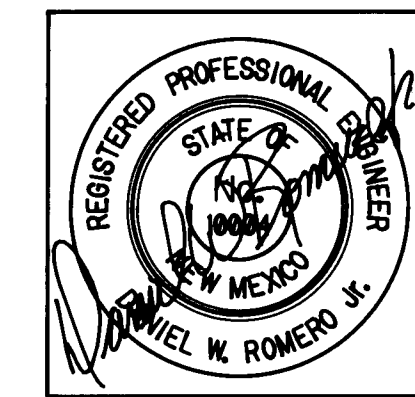
 SPECIAL SYSTEMS PLAN
1/8" = 1'-0"

FIRE ALARM SYSTEM - ZONING

- ZONE 1 - ADMINISTRATION AREA - DETECTORS
- ZONE 2 - OPERATIONS ROOM 102, 103, 104, 105, 106, 107 AND 108 - DETECTORS
- ZONE 3 - OPERATIONS ROOM 105 RAISED FLOOR - DETECTORS
- ZONE 4 - AUTOMATION EQUIPMENT ROOM 109, 110, 111 - DETECTORS
- ZONE 5 - AUTOMATION EQUIPMENT ROOM 111, RAISED FLOOR - DETECTORS
- ZONE 6 - MECHANICAL RETURN AIR DUCT - DETECTORS (PROVIDED BY MECHANICAL)
- ZONE 7 - TELEPHONE ROOM 112, COMMUNICATIONS ROOM 113 AND MECHANICAL ROOM 121 - DETECTORS
- ZONE 8 - ADMINISTRATION - MANUAL PULLSTATIONS
- ZONE 9 - MECHANICAL ROOM AREA - MANUAL PULLSTATIONS
- ZONE 10 - OPERATIONS AREA - MANUAL PULLSTATIONS

KEYED NOTES

- 1 14"W X 10"H X 3/4" PLYWOOD TELEPHONE BACKBOARD WITH #6 GROUND. 2'-0" UP TO BOTTOM OF BOARD.
- 2 STUB-UP CONDUITS 6" A.F.F. PUSH CONDUITS.
- 3 DELETED
- 4 COMMUNICATIONS DEMARCATION CABINET. 4"W X 4"H X 8"D TELEPHONE TYPE CABINET WITH 3/4" PLYWOOD BACKBOARD. PROVIDE FULL BOTTOM SKIRT, TO BELOW RAISED FLOOR.
- 5 ONE 4" RGS CONDUIT.
- 6 TWO 4" RGS CONDUITS. REFER TO SITE PLAN FOR DETAILS.
- 7 STUB-UP CONDUITS UP 3" ABOVE SLAB (BELOW RAISED FLOOR).
- 8 JUNCTION BOX FOR CONNECTION TO FUTURE GFI RECEPTACLE AND LIGHT FIXTURE. REFER TO TOWER ELEVATION.
- 9 REFER TO MECHANICAL DUCT CHASE DETAIL ON MECHANICAL DRAWINGS FOR EXACT ROUTING OF CONDUITS.
- 10 FACILITY GROUNDING SYSTEM PLATE UNDER RAISED FLOOR. EXTEND #6 BARE CONDUCTORS AND BOND TO COMMUNICATIONS DEMARCATION CABINET AND TELEPHONE DEMARCATION CABINET. F.A.A. EQUIPMENT ENCLOSURES WILL BE CONNECTED BY F.A.A. REFER TO GROUND PLATE DETAIL.
- 11 SIGNAL GROUNDING SYSTEM PLATE UNDER RAISED FLOOR, FOR CONNECTION TO F.A.A. EQUIPMENT BY F.A.A., REFER TO GROUND PLATE DETAIL.
- 12 EXTEND 1-500 MCM COPPER CONDUCTOR IN 1 1/4" PVC CONDUIT TO BUILDING COUNTERPOISE SYSTEM (GROUND ACCESS WELL).
- 13 TWO 4" CONDUITS TO TELEPHONE MANHOLE. SEE SITE PLAN.
- 14 CODED ENTRY DOOR CONTROL. CONTINENTAL INSTRUMENTS #S-100.
- 15 CODED ENTRY DOOR LOCK (24V DC). REFER TO HARDWARE SPECIFICATION.
- 16 PUSHBUTTON PANEL. CONTINENTAL INSTRUMENTS #A15.
- 17 WIRING AS REQUIRED.
- 18 DOOR ALARM CONTACT RATED AT 24V. PUSH TO OPEN CONTACT EDWARDS #44.
- 19 ENTRY ALARM BUZZER WITH PILOT LIGHT AND RESET BUTTON (24V DC) UP 48".



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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

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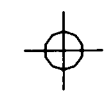
DATE: 5/21/87
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REVISIONS:

TITLE
SPECIAL SYSTEMS PLAN
SHEET

E2.3

SHEET 37 OF 41

1 2 3 4 5 6 7 8 9 10 11 12
26 31 32 41 49



E

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5

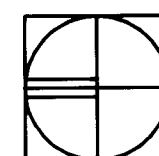
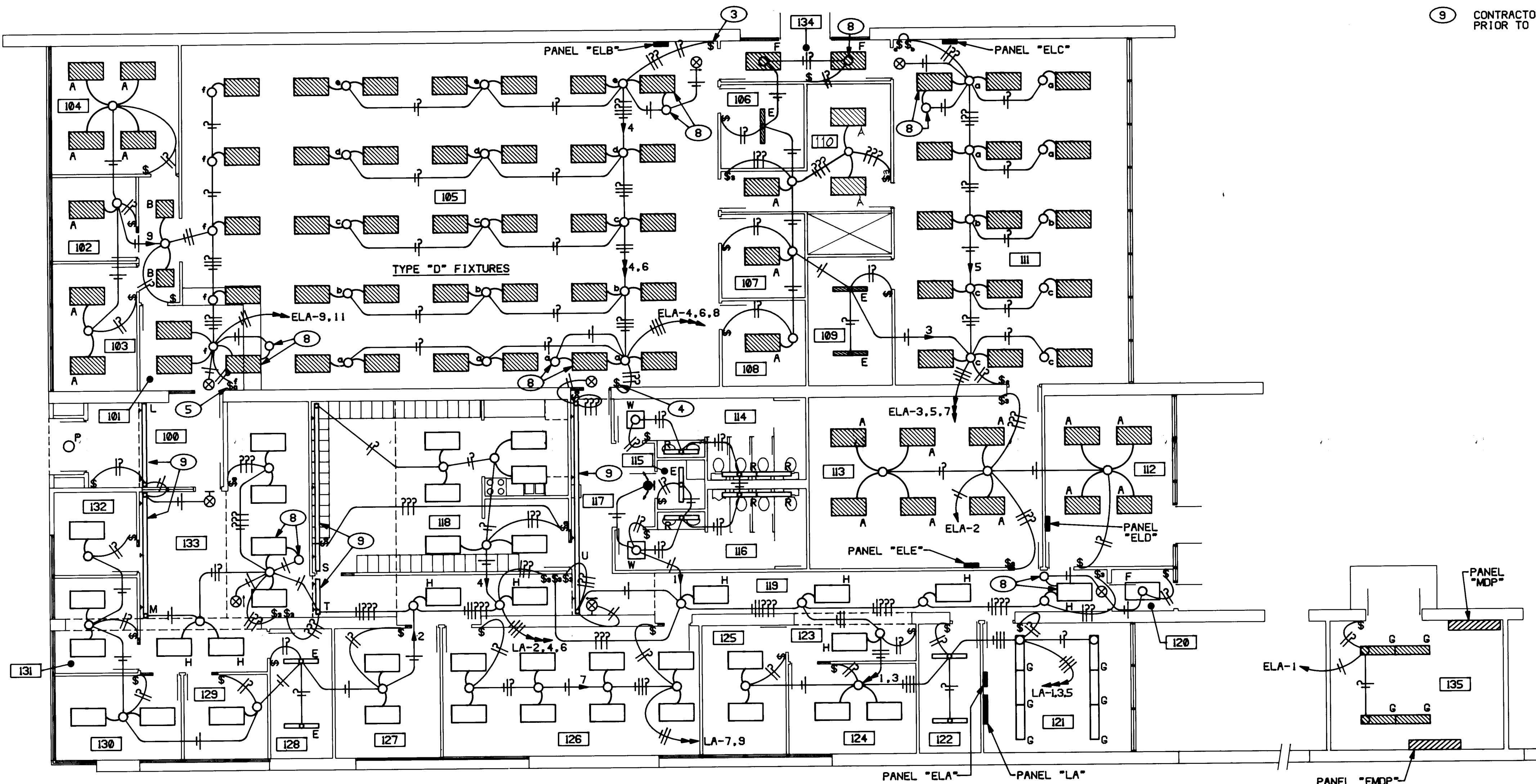
6

D

C

B

A



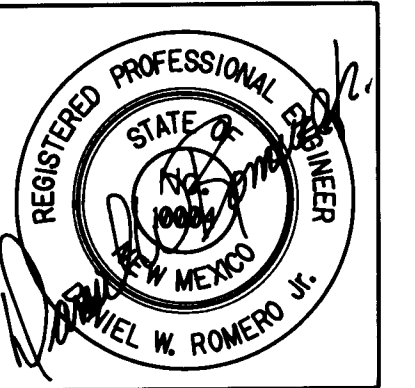
LIGHTING PLAN

1/8" = 1'-0"

1 2 7

KEYED NOTES

- 1 ALL 2 X 4 FIXTURES SHALL BE TYPE "C" UNLESS OTHERWISE INDICATED.
- 2 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
- 3 THREE DIMMER SWITCHES, c, d, e, 2000W FLUORESCENT DIMMERS, PRESCOLITE #P20F-W.
- 4 TWO DIMMER SWITCHES, a, b, 2000W FLUORESCENT DIMMERS, PRESCOLITE #P20F-W.
- 5 DIMMER SWITCH, 1500W FLUORESCENT DIMMER #P15F-W.
- 6 DELETED.
- 7 ALL FLUORESCENT FIXTURES SHALL BE PROVIDED WITH RADIO FREQUENCY SUPPRESSORS.
- 8 INSTALL EMERGENCY BATTERY PACK IN FIXTURE INDICATED. DUAL-LITE #UFO-2.
- 9 CONTRACTOR SHALL VERIFY EXACT LENGTH OF FIXTURE WITH ARCHITECT PRIOR TO ORDERING.



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LIGHTING
PLAN
SHEET

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SHEET 35 OF 41

(160'-0")

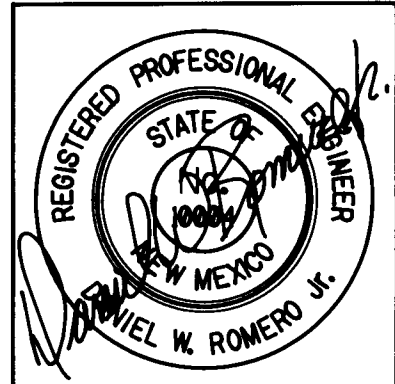
(192'-0")

1 2 3 4 5 6 7 8 9 10 11 12
26 31 32 33 34 35

3132

KEYED NOTES

- 1 CONTRACTOR SHALL REMOVE EXISTING TELEPHONE CONCRETE ENCASED DUCT BANK. CONTRACTOR SHALL REMOVE DUCT BANK ONLY AFTER MOUNTAIN BELL HAS REMOVED EXISTING CABLE AND INSTALLED NEW CABLE IN REROUTED DUCT BANK.
- 2 NEW TWO-WAY, 4" PVC DUCT BANK FOR TELEPHONE SERVICE. REFER TO MANHOLES "A", "B", AND DUCT BANK DETAIL.
- 3 45 DEGREE ELL.
- 4 LONG SWEEP FIELD RADIUS.
- 5 CONCRETE PAD FOR PNM TRANSFORMER. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING THE EQUIPMENT SPACE ON THE CONCRETE APRON TO MEET CLEARANCE REQUIREMENTS PER PNM DRAWING #DS-7-16.2.
- 6 TWO-WAY, 4" RGS CONDUIT DUCT BANK FOR TELEPHONE SERVICE. DEPTH PER MOUNTAIN BELL REQUIREMENTS. SEE MANHOLE "B" DETAIL.
- 7 CONTRACTOR SHALL HAND DIG THIS AREA SO AS NOT TO DAMAGE EXISTING CONDUITS.
- 8 EXTEND TO CIRCUITS INDICATED THROUGH CONTACTOR PHOTOCELL. REFER TO POWER RISER DIAGRAM. EXTEND #8 CONDUCTORS THROUGHOUT.
- 9 FOUR-WAY, 4" PVC DUCT BANK. REFER TO COMMUNICATIONS MANHOLE DETAILS.
- 10 FOUR-WAY, 4" RGS CONDUIT DUCT BANK. REFER TO COMMUNICATIONS MANHOLE DETAILS.
- 11 END DUCT BANK AT THIS POINT.
- 12 ALL CONDUIT RUNS UNDERGROUND IN THIS AREA SHALL BE RUN 6" BELOW FOOTINGS FOR FUTURE BUILDING EXTENSION.



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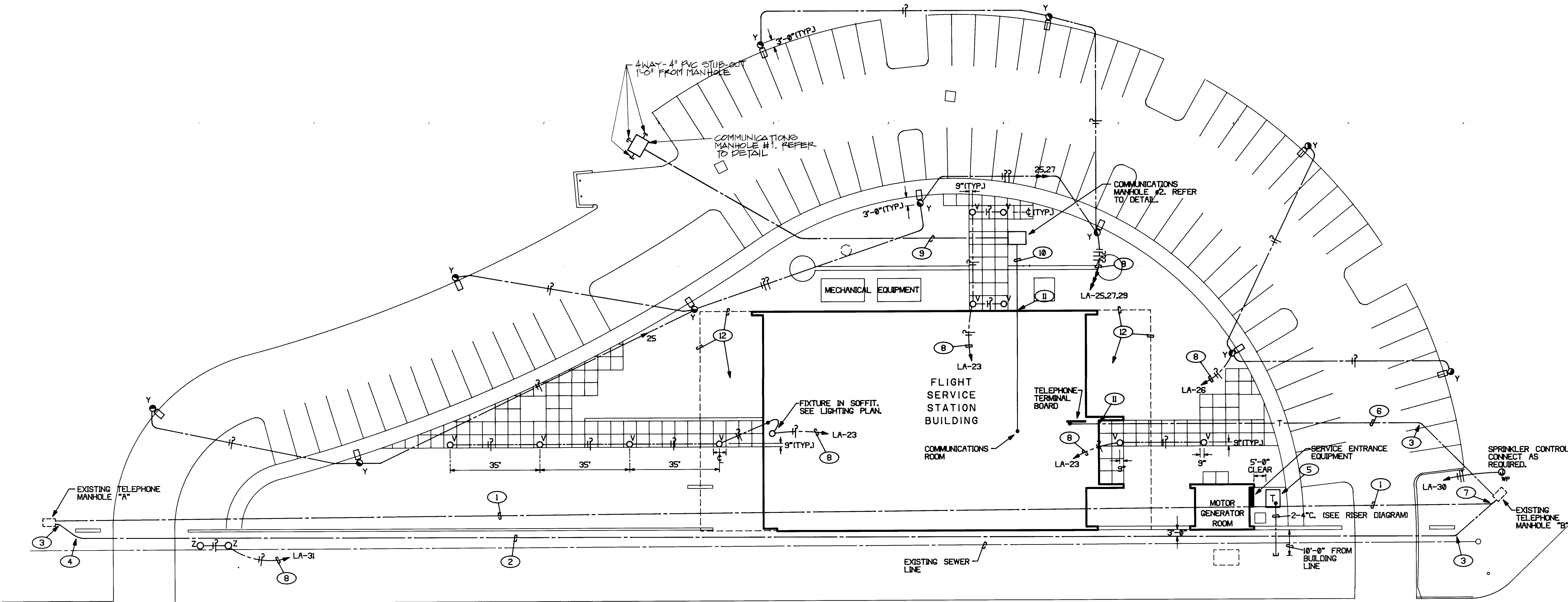
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PROJECT: 86007
REVISIONS:

TITLE
UTILITY
SITE PLAN
SHEET

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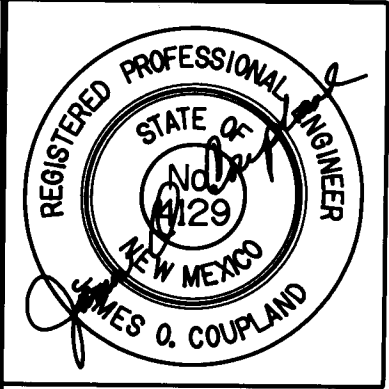
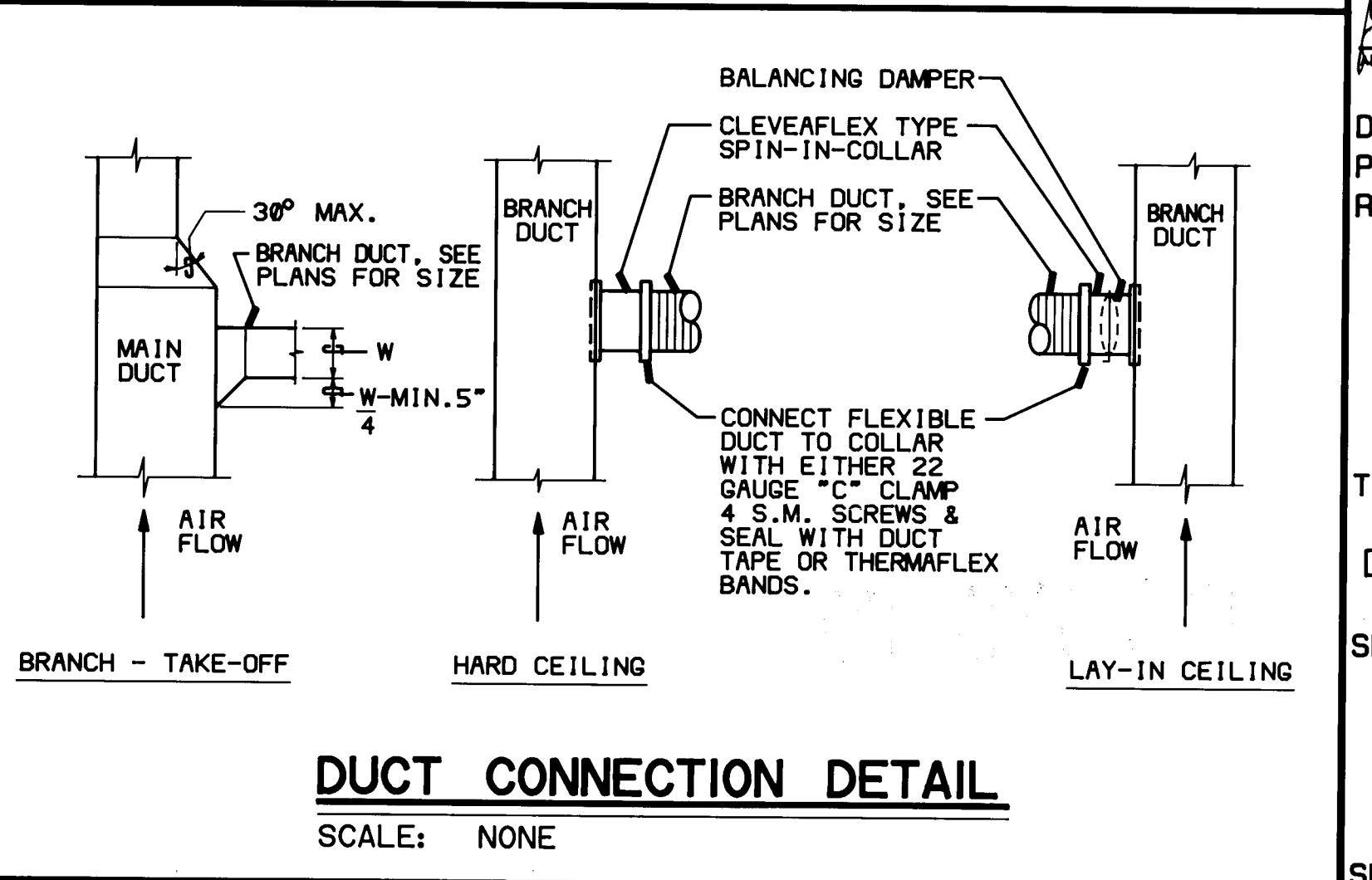
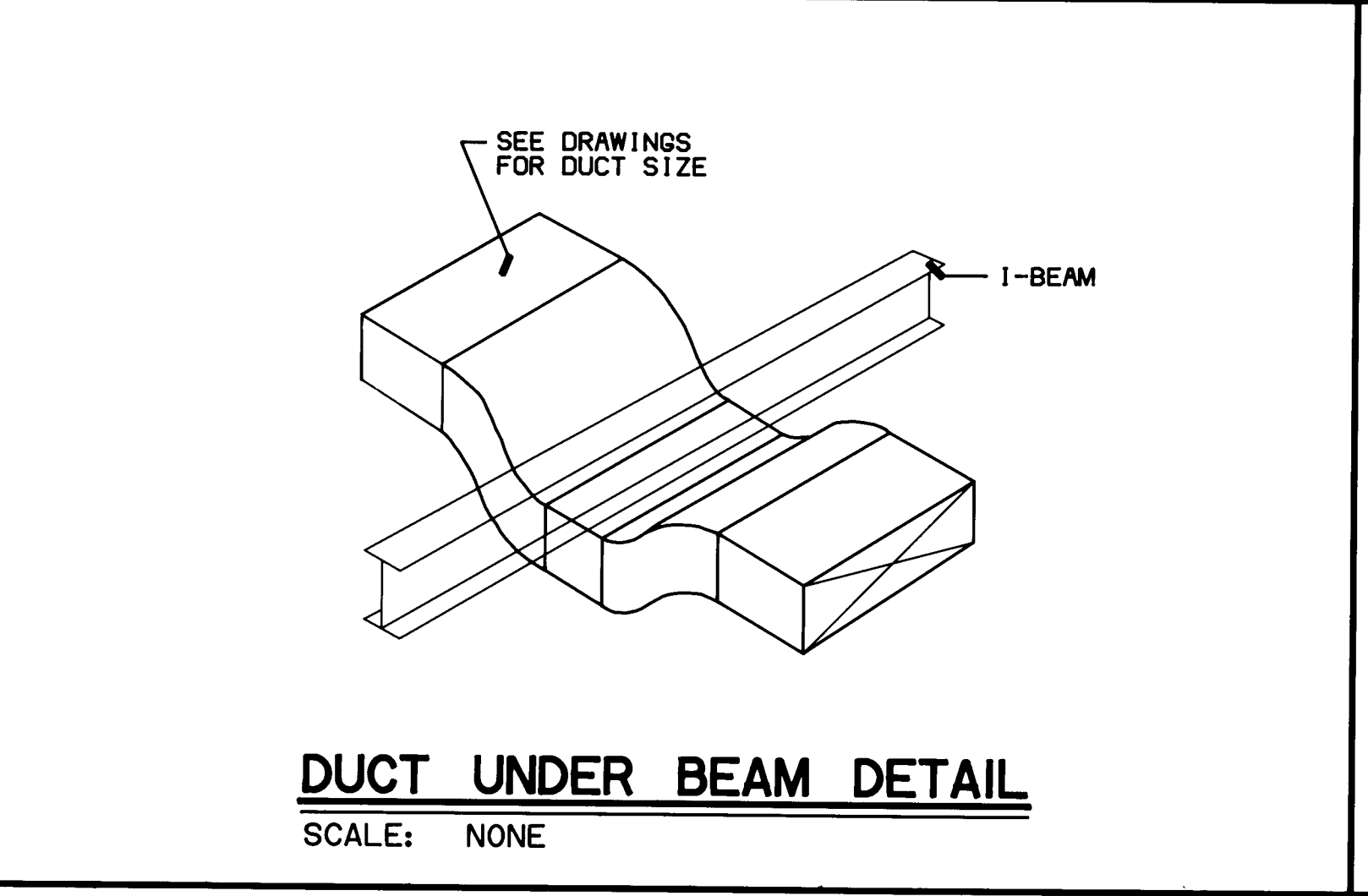
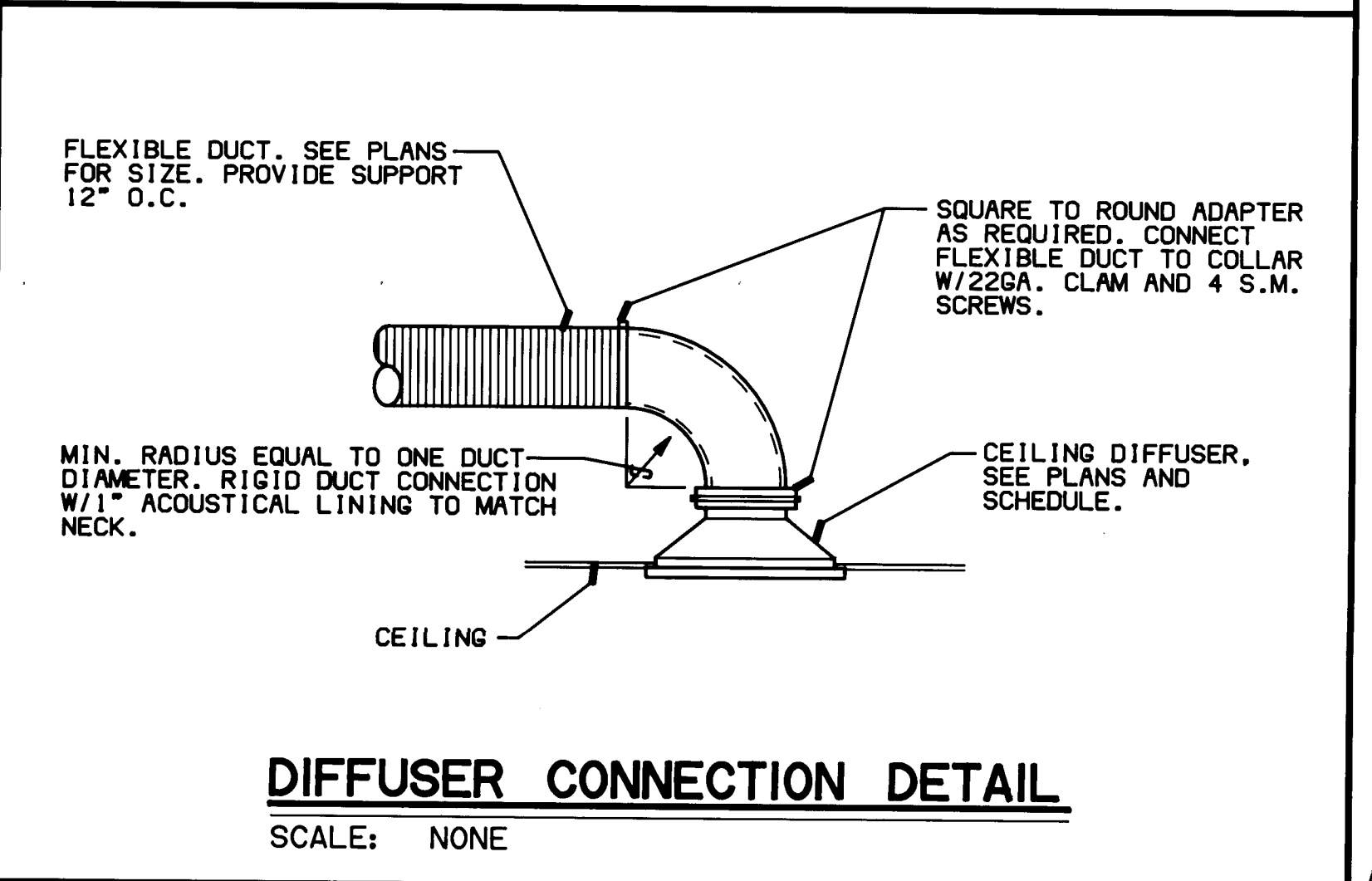
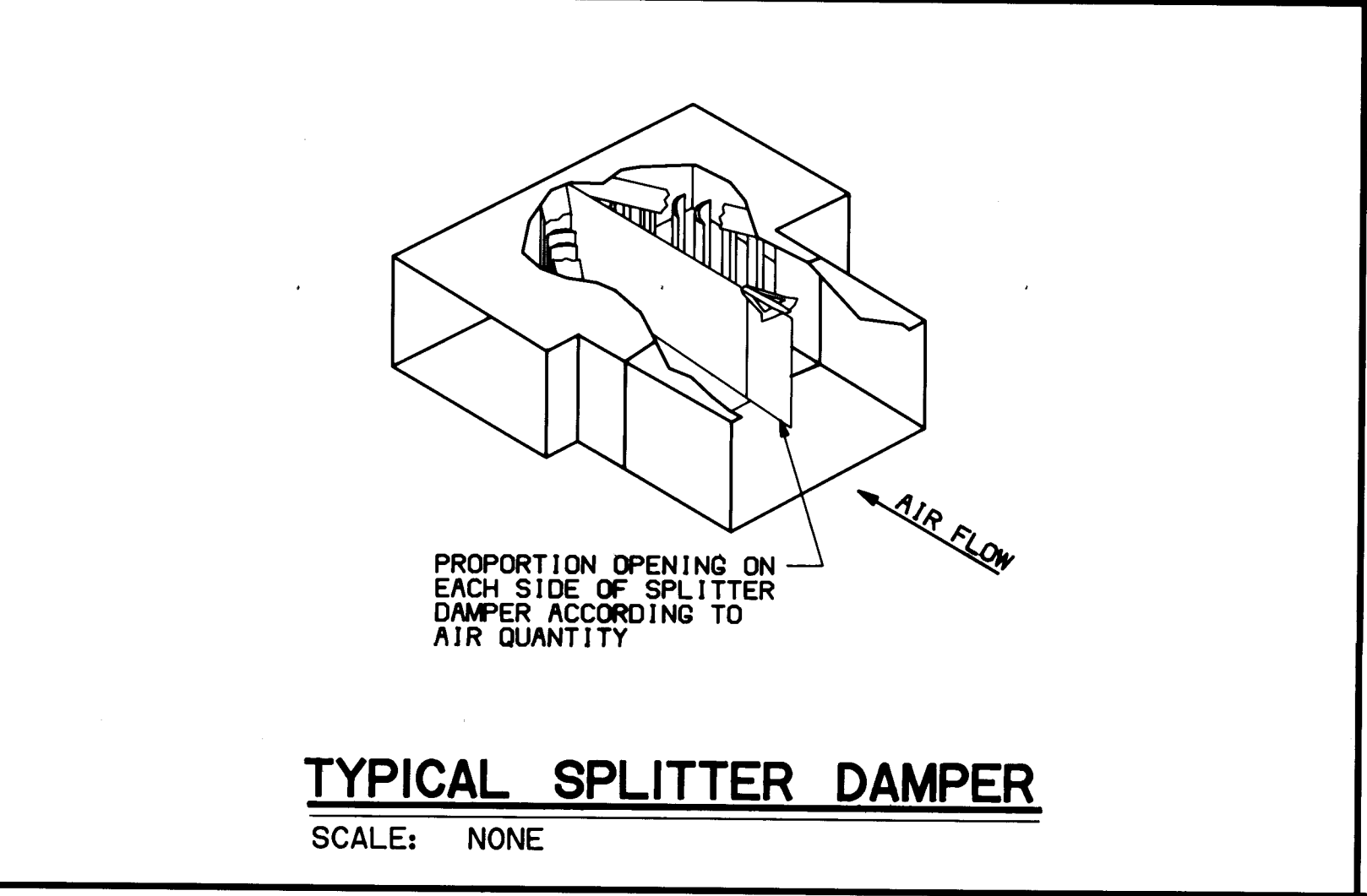
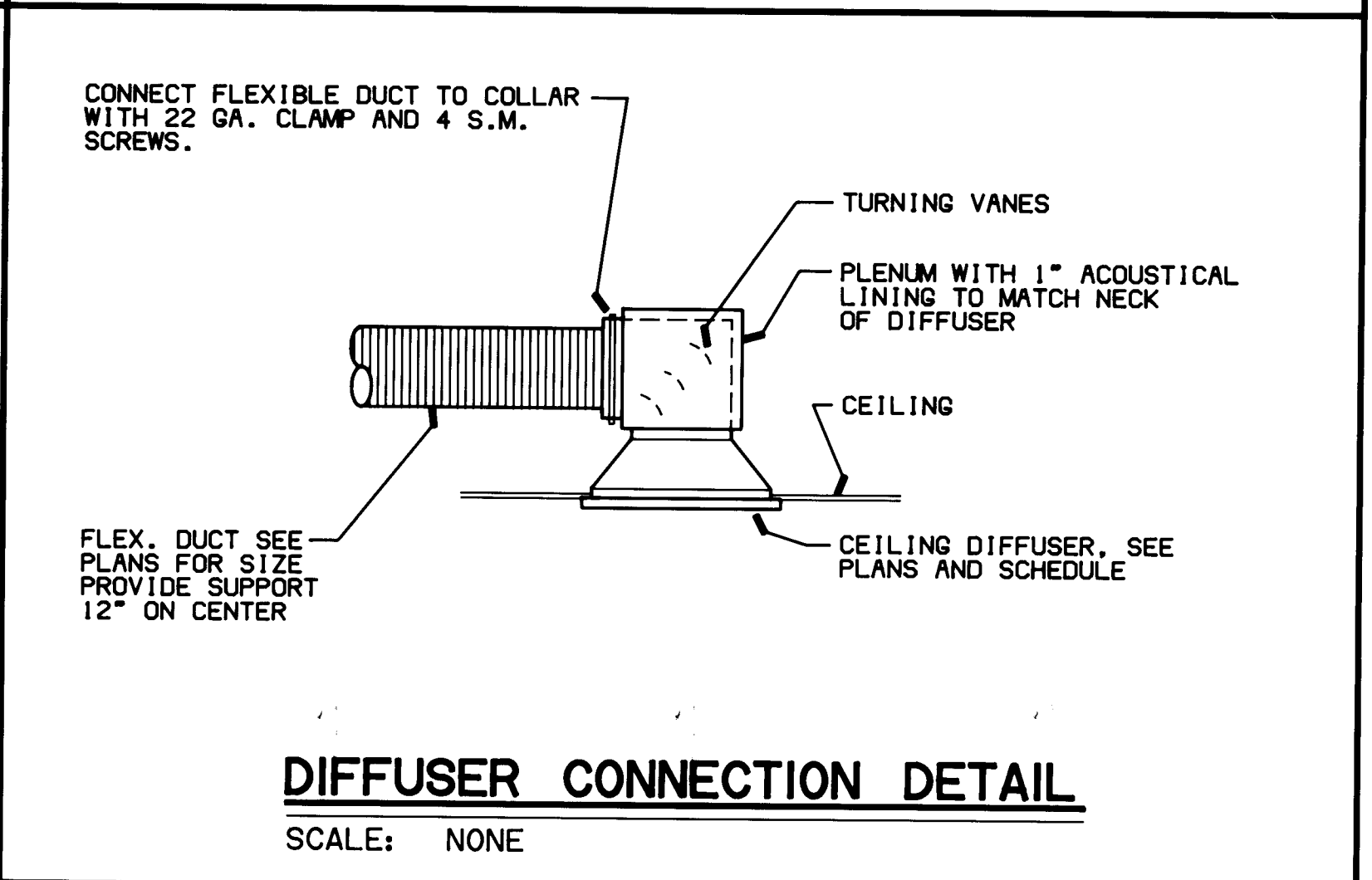
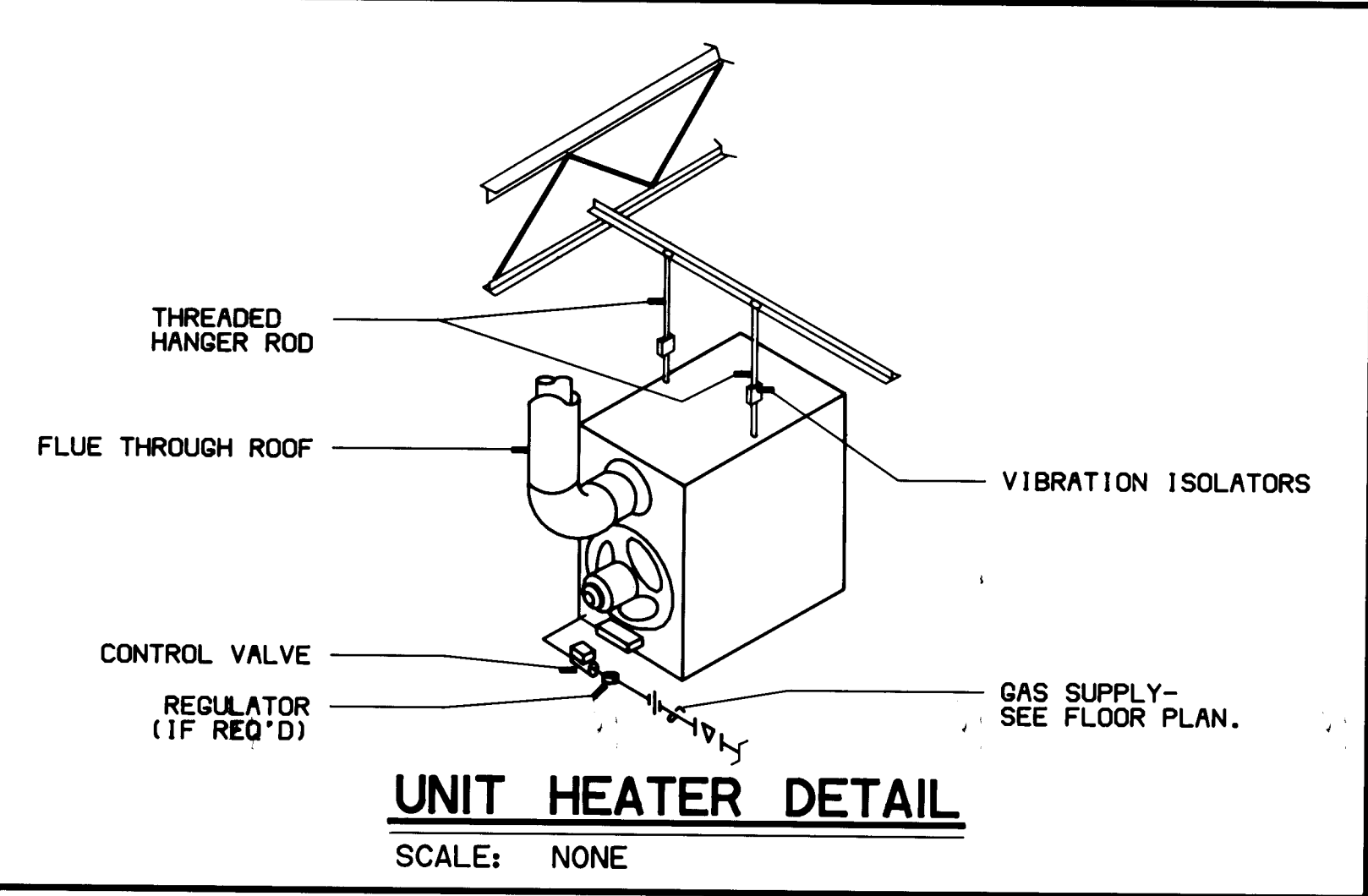
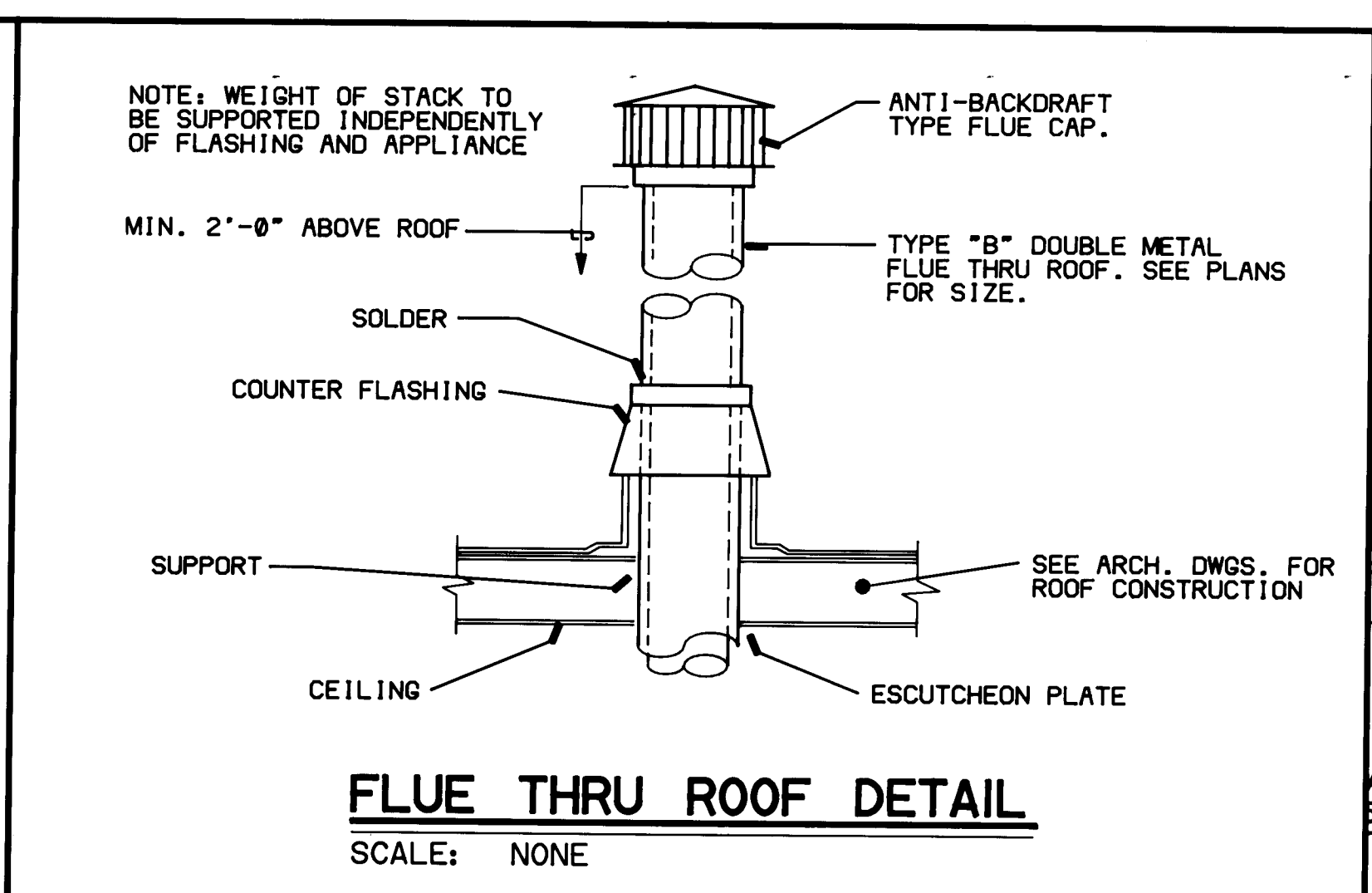
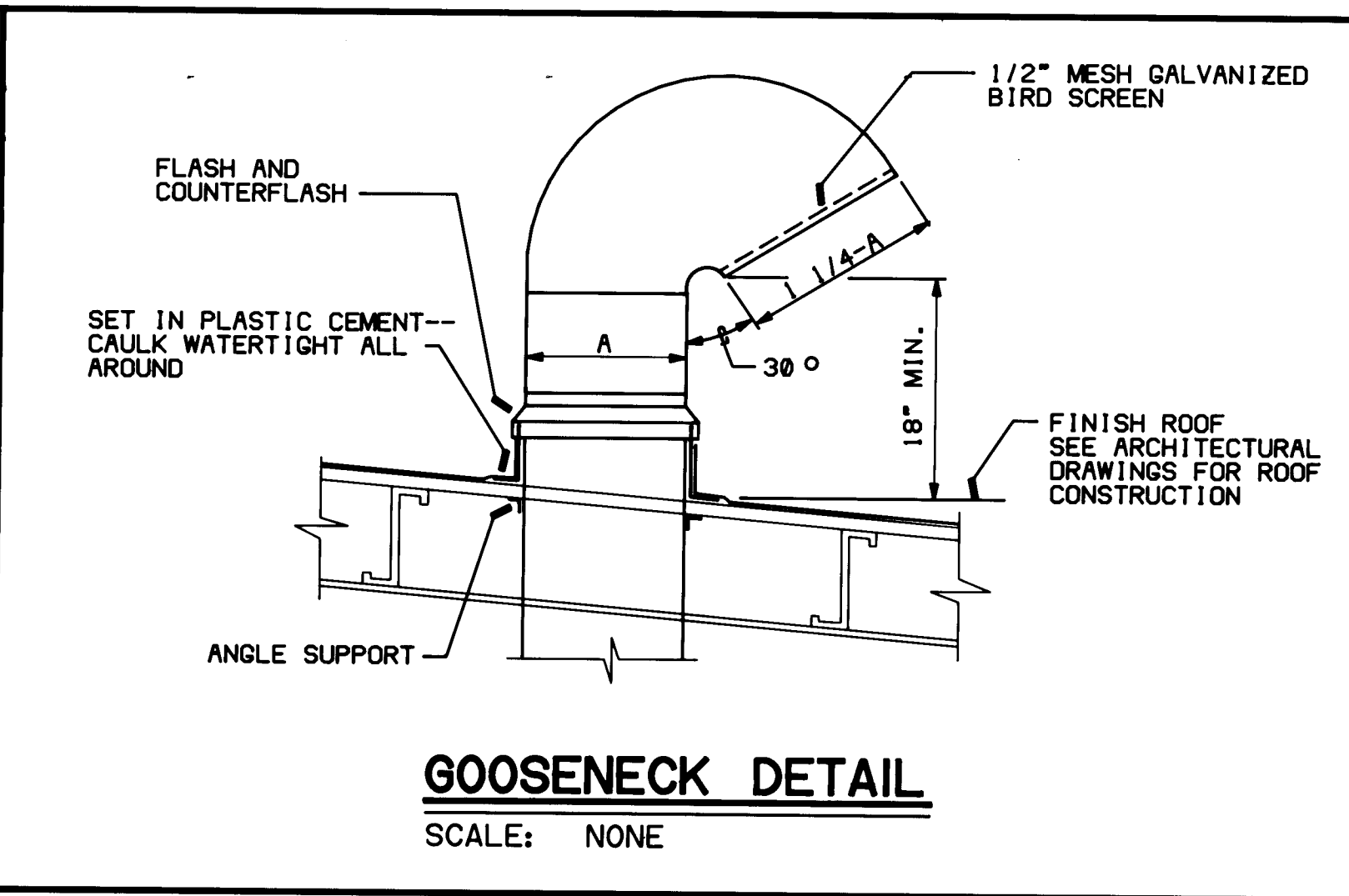
SHEET 34 OF 41



UTILITY SITE PLAN
1" = 20'-0"

2 6 3 1 3 2 3 8 8 9

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
----	COLD WATER LINE
----	HOT WATER LINE
----	CIRCULATING HOT WATER
----	VENT PIPING
----	SOIL LINE
G	GAS LINE
W	WATER LINE
D	DRAIN LINE
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
RDL	ROOF DRAIN LEADER
OFL	OVER FLOW LEADER
SD	SPLITTER DAMPER
BD	BALANCING DAMPER
VTR	VENT THRU ROOF
FA	FRESH AIR
RA	RETURN AIR
FD	FIRE DAMPER
FC	FLEXIBLE CONNECTION
AL	ACCOUSTIC LINING
TV	TURNING VANES
AD	ACCESS DOOR
HD	HAND DAMPER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
C	CLOSED
OSA	OUTSIDE AIR
GV	GATE VALVE
GV	GLOBE VALVE
CV	CHECK VALVE
BV	BALANCING OR PLUG VALVE
CV	CONTROL VALVE (THREE-WAY)
RV	RELIEF VALVE
PRV	PRESSURE REDUCING VALVE
STR	STRAINER
UN	UNION
TM	THERMOMETER
GA	GAUGE
RED	REDUCER
VR	VALVE IN RISE
ET	ELECTRIC THERMOSTAT
TP	TEMPERATURE / PRESSURE TEST PLUG
MAV	MANUAL AIR VENT
RD	RIGID DUCTWORK
FD	FLEXIBLE DUCTWORK
DL	DOUBLE LINE DUCTWORK
ALD	ACOUSTICALLY LINED DUCTWORK
O.A.E.	OR APPROVED EQUAL
HM	HUMIDISTAT



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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED DATE 5/28/87

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
DETAILS
SHEET

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SHEET 33 OF 41

EQUIPMENT SCHEDULE										FIXTURE SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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EF-1	EXHAUST FAN: CENTRIFUGAL TYPE ROOF EXHAUSTER WITH SPUN ALUMINUM HOUSING. ALUMINUM CURB CAP. STAINLESS STEEL FASTENINGS, PRE-LUBRICATED BALL BEARING DRIVE, VIBRATION ISOLATORS. ALL ALUMINUM WHEEL AND HUB DYNAMICALLY AND STATICALLY BALANCED. SELF DRIVE, MOTORIZED BACKDRIFT DAMPERS, BIRDSCREEN, DISCONNECT SWITCH, ALUMINUM WIRING POST, PREFABRICATED SOUND CURB AND WIRING TO JUNCTION BOX. UNIT SHALL BE PENN "DOMEX" OR EQUIVALENT, COOK, GREENHECK OR APPROVED EQUAL.									AC-1	AIR CONDITIONING UNIT: PACKAGE ROOFTOP UNIT SHALL BE COMBINATION DX COOLING - SYSTEM WITH AIR HANDLING SECTION, FILTER SECTION WITH HIGH EFFICIENCY THROWAWAY FILTERS AND COMPLETE CONTROL SYSTEM. UNIT SHALL BE ARI CERTIFIED AND UL LISTED. CABINET SHALL BE WEATHERPROOF WITH GALVANIZED STEEL FLOOR. ACCESS PANELS SHALL BE PROVIDED FOR ALL SERVICEABLE PARTS. SCHEDULED COOLING CAPACITY SHALL BE PRODUCED AT RATING CONDITIONS OF 105F OUTDOOR AIR AND 80/67F EVAPORATOR ENTERING AIR. REFRIGERATION CIRCUIT. COMPRESSOR SHALL HAVE HIGH AND LOW PRESSURE CUTOUTS AND ANTI-RECYCLE TIMERS. FURNISH WITH SUPPLY & RETURN AIR DAMPERS.									WC-1	WATER CLOSET: AMERICAN STANDARD "CADET" 9468.018, FLOOR MOUNTED, WATER SAVER, SIPHON JET, VITREOUS CHINA, ELONGATED RIM, (18" HIGH) BOLT CAPS, 1 1/2" TOP SPUD, SLOAN "ROYAL" 110-3 FLUSH VALVE WITH VACUUM BREAKER, 1" SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION, SOLID WHITE PLASTIC SEAT WITH OPEN FRONT, EXTENDED BACK AND CHECK HINGE, LESS COVER.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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SEQUENCE OF CONTROL

AHU-1 - GENERAL OFFICE AREA:

AHU-1 SHALL OPERATE THROUGH A SEVEN DAY TIMECLOCK LOCATED IN STORAGE 106 AND SHALL BE 120 VOLT. IN OCCUPIED MODE, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY. FAN CONTROL AND SUPPLY AIR TEMPERATURE CONTROL SHALL BE AS DESCRIBED BELOW FOR AHU-2 AND AHU-3. IN UNOCCUPIED MODE, THE SUPPLY FAN SHALL NOT OPERATE. OUTDOOR AIR AND RELIEF AIR DAMPERS SHALL BE FULLY CLOSED WHENEVER THE SUPPLY FAN IS OFF. OUTDOOR AND RELIEF AIR DAMPERS SHALL BE LOW LEAKAGE TYPE HAVING BLADE EDGE AND FRAME SEALS.

BOILERS: HEATING WATER PUMPS P-1 AND P-2 SHALL OPERATE THROUGH AN AUTOMATIC ALTERNATOR. AN OUTDOOR AIR TEMPERATURE SWITCH SHALL START A HEATING WATER PUMP WHENEVER OUTDOOR AIR TEMPERATURE IS BELOW 65F (ADJUSTABLE) SETPOINT. A FLOW SWITCH LOCATED IN THE HEATING WATER MAIN SHALL ALLOW BOILER OPERATION WHENEVER WATER IS FLOWING. BOILERS SHALL BE CONTROLLED THROUGH PACKAGED CONTROL SYSTEM TO MAINTAIN SUPPLY WATER TEMPERATURE AT SETPOINT OF 200F WHEN OSA IS OF AND 150F WHEN OSA IS 65F. EITHER A THREE-WAY CONTROL VALVE OR A MASTER-SUBMASTER CONTROL MAY BE USED TO RESET HEATING WATER SUPPLY TEMPERATURE.

AHU-2 AND AHU-3 - ELECTRONIC EQUIPMENT AREA:

AHU-2 AND AHU-3 PROVIDE 100% BACKUP HVAC CAPACITY FOR THE ELECTRONICS AREA OF THE BUILDING. ONE OF THE UNITS OPERATES CONTINUOUSLY THROUGH A MANUAL SELECTOR SWITCH LOCATED IN STORAGE 106. UPON LOSS OF ELECTRIC POWER, AHU-3 CONTINUES OPERATING FROM THE EMERGENCY GENERATOR.

THE AHU FANS ARE CONTROLLED FROM A STATIC PRESSURE SENSOR LOCATED IN THE SUPPLY AIR DUCTWORK WHERE INDICATED ON THE DRAWINGS. THE MANUFACTURER'S STANDARD METHOD OF VOLUME CONTROL SHALL BE USED TO MAINTAIN SETPOINT STATIC PRESSURE AT THE SENSOR.

SUPPLY AIR SHALL BE MAINTAINED AT SETPOINT (55F) TEMPERATURE CONSTANTLY BY MODULATING OUTDOOR/RETURN/RELIEF DAMPERS IN AIR ECONOMIZER MODE WHEN OUTDOOR TEMPERATURE IS BELOW 75F AND BY CYCLING REFRIGERATION STAGES AND HOT GAS BYPASS CONTROLS WHEN OUTDOOR AIR IS ABOVE 75F. ABOVE 75F, THE OUTDOOR RELIEF DAMPERS SHALL BE IN MINIMUM POSITION (ADJUSTABLE). WHENEVER THE AHU IS IN STANDBY MODE, FAN NOT RUNNING, SUPPLY AIR, RETURN AIR, OUTDOOR AIR AND RELIEF AIR DAMPERS SHALL BE FULLY CLOSED. ALL DAMPERS SHALL BE LOW LEAKAGE TYPE HAVING BLADE EDGE AND FRAME SEALS.

EACH VAV TERMINAL SHALL MODULATE AIRFLOW TO MAINTAIN SETPOINT TEMPERATURE AT THE CONTROLLING THERMOSTAT.

EACH BASEBOARD RADIATION HEATING ELEMENT SHALL HAVE A THERMOSTATICALLY CONTROLLED WATER CONTROL VALVE TO MAINTAIN MINIMUM SPACE TEMPERATURE.

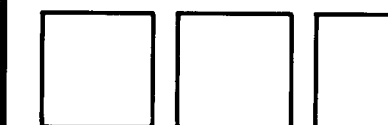
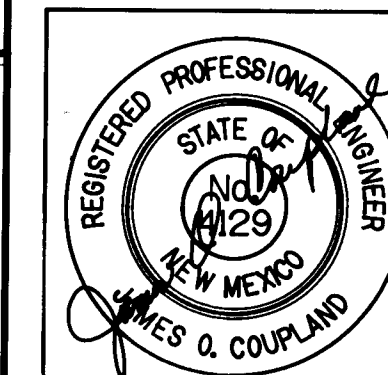
HUMIDIFIERS: INDIVIDUAL UNIT HUMIDIFIERS SHALL BE CONNECTED TO ONE HUMIDISTAT PER ROOM. ON CALL FOR HUMIDITY, ALL HUMIDIFIERS IN THAT ROOM SHALL OPERATE.

EXHAUST FANS:

TOILET ROOMS - EXHAUST FAN SHALL OPERATE CONTINUOUSLY WITH A PILOT SWITCH LOCATED IN THE JANITOR ROOM #115.

MOTOR GENERATOR ROOM - THE EXHAUST FAN SHALL OPERATE UPON START UP OF THE MOTOR GENERATOR. THE MOTORIZED LOUVER SHALL OPEN UPON STARTING OF THE EXHAUST FAN.

MECHANICAL ROOM - THE EXHAUST FAN SHALL BE CONTROLLED BY A THERMOSTAT SET TO OPERATE THE FAN WHEN THE TEMPERATURE REACHES 80F. THE MOTORIZED DAMPER SHALL OPEN UPON STARTING OF THE EXHAUST FAN.



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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED *Pin Martin* 5/28/97
DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

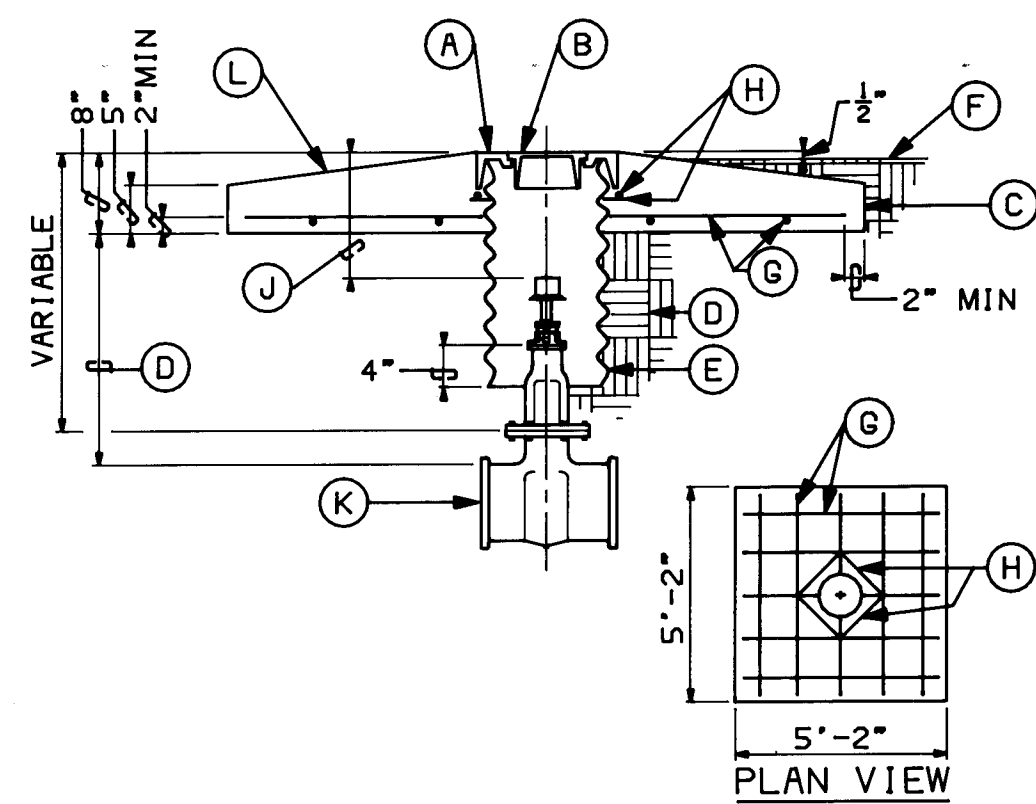
TITLE
SCHEDULES &
SEQUENCE OF
CONTROL

SHEET

M3.2

SHEET 32 OF 41

3132



VALVE IN BOX - TYPE "B" DETAIL

SCALE: NONE

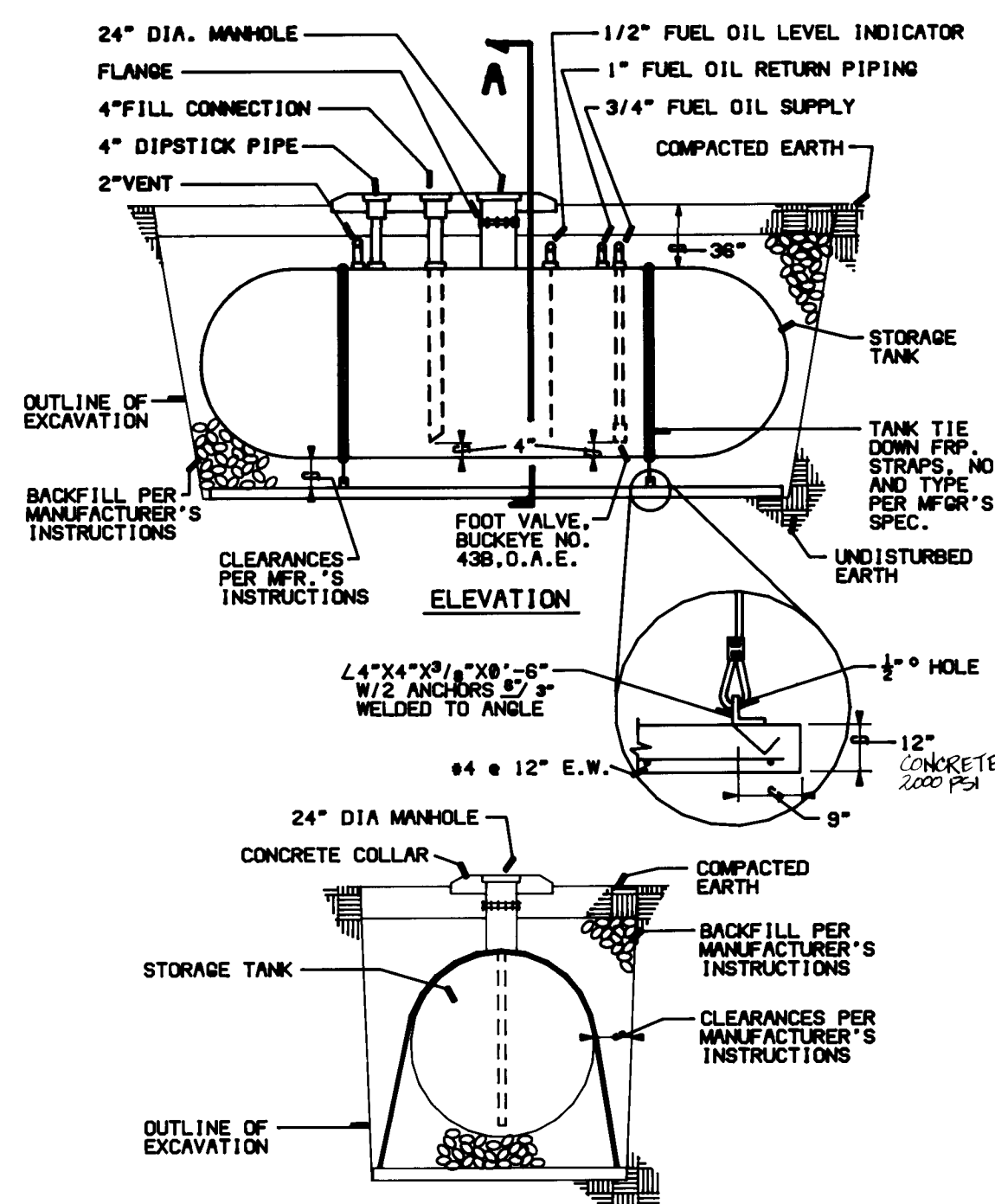
GENERAL NOTES

- SIDES OF CONCRETE PAD TO BE PARALLEL AND PERPENDICULAR TO THE NORMAL TRAFFIC FLOW.
- USE THIS TYPE VALVE BOX FOR LOCATION IN UNPAVED STREETS OR ALLEYS AND IN NON-TRAFFIC EASMENTS.

KEYED CONSTRUCTION NOTES

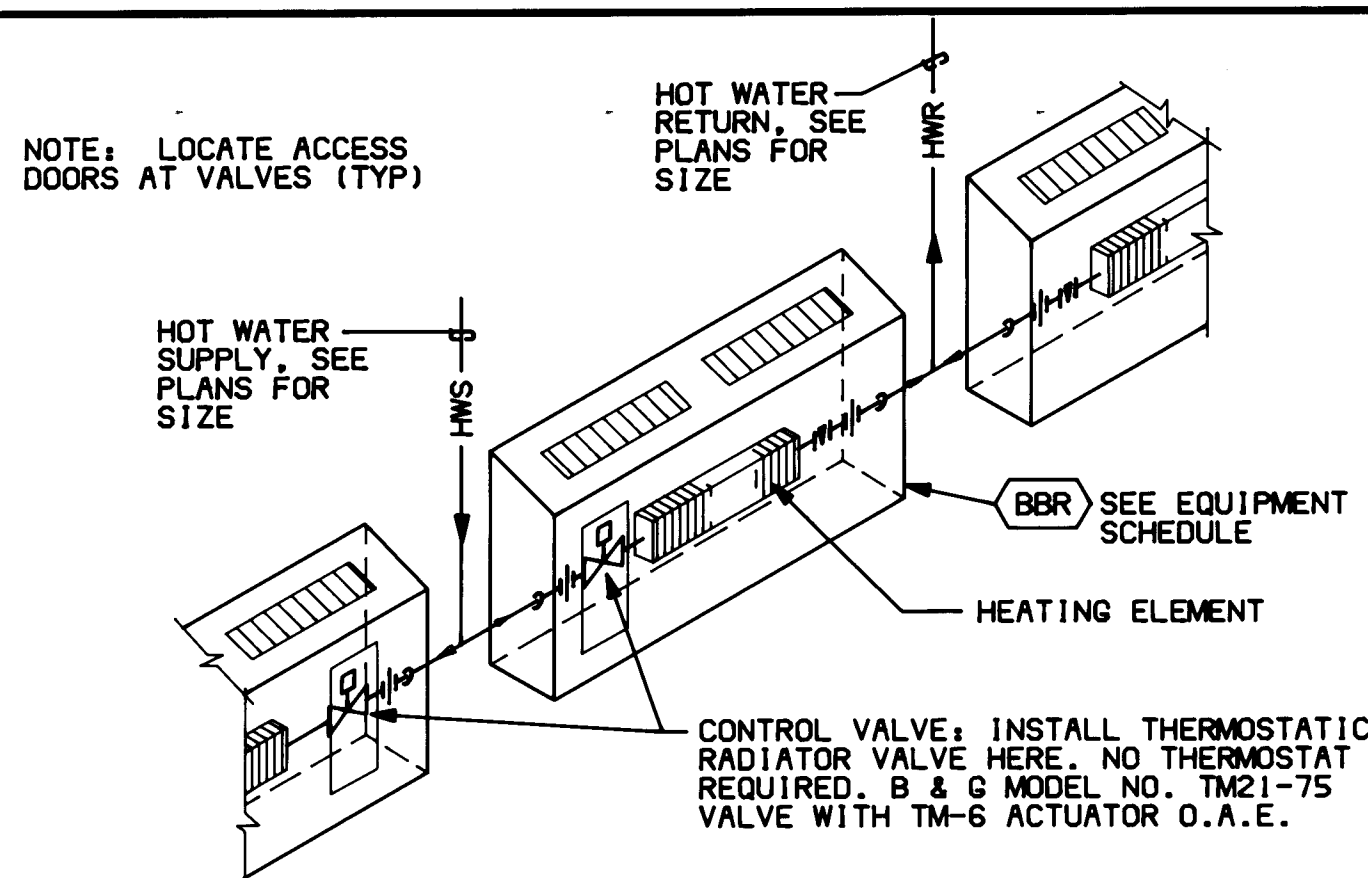
- (A) RING.
- (B) COVER.
- (C) PORTLAND CEMENT CONC. 3000 PSI
- (D) COMPACTED EARTH FILL, 90% TO 95% OF MAX. DENSITY AS DETERMINED BY A.S.T.M. D 1557.
- (E) 2" DIA. CORRUGATED GALVANIZED CULVERT PIPE 14 GA. DIPPED IN COAL TAR ENAMEL OR COATED WITH POLYMERIC COATING 3 MILS THICK MIN. MEETING REQUIREMENTS SET BY A.A.S.H.T.O. M 246.
- (F) GROUND LEVEL.
- (G) NUMBER 4 BARS AT 12" O.C. EACH WAY.
- (H) NUMBER 4 BARS 1'-6" LONG.
- (J) 2'-8" MAX., USE STEM EXTENSION AS NECESSARY, SEE DWG. 2330, 2331.
- (K) NEW VALVE.
- (L) SCRIBE IN THE FRESH CONCRETE THE SIZE OF THE VALVE.

CITY OF ALBUQUERQUE
DRAWING NO 2326



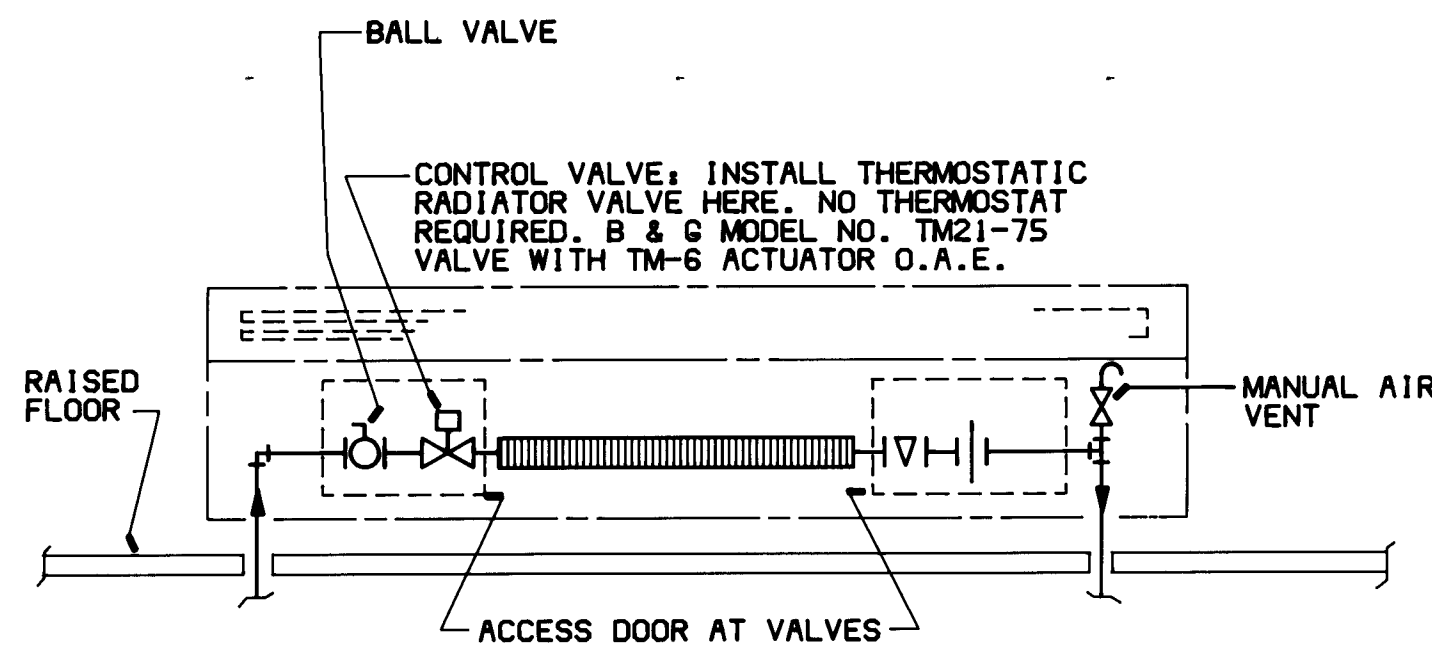
STORAGE TANK DETAIL

SCALE: NONE



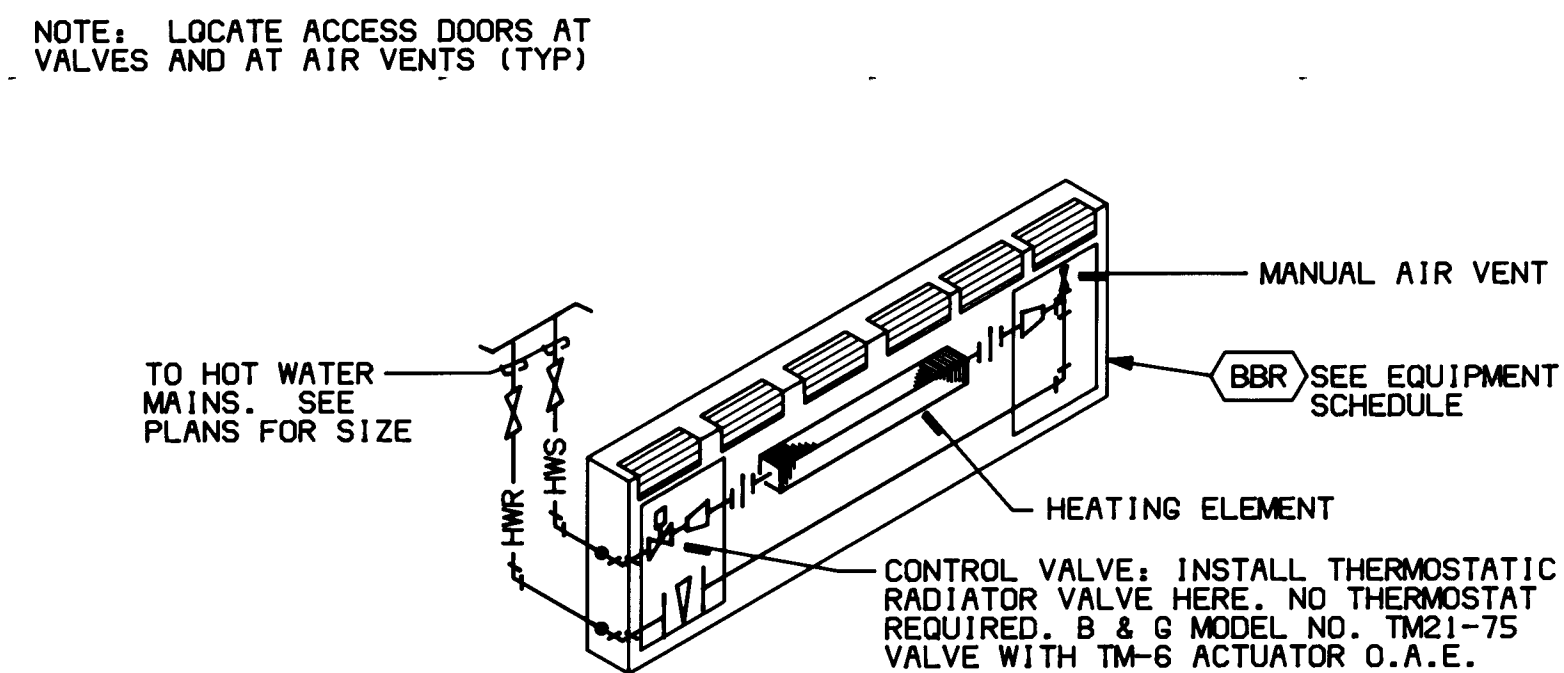
BASEBOARD RADIATION DETAIL

SCALE: NONE



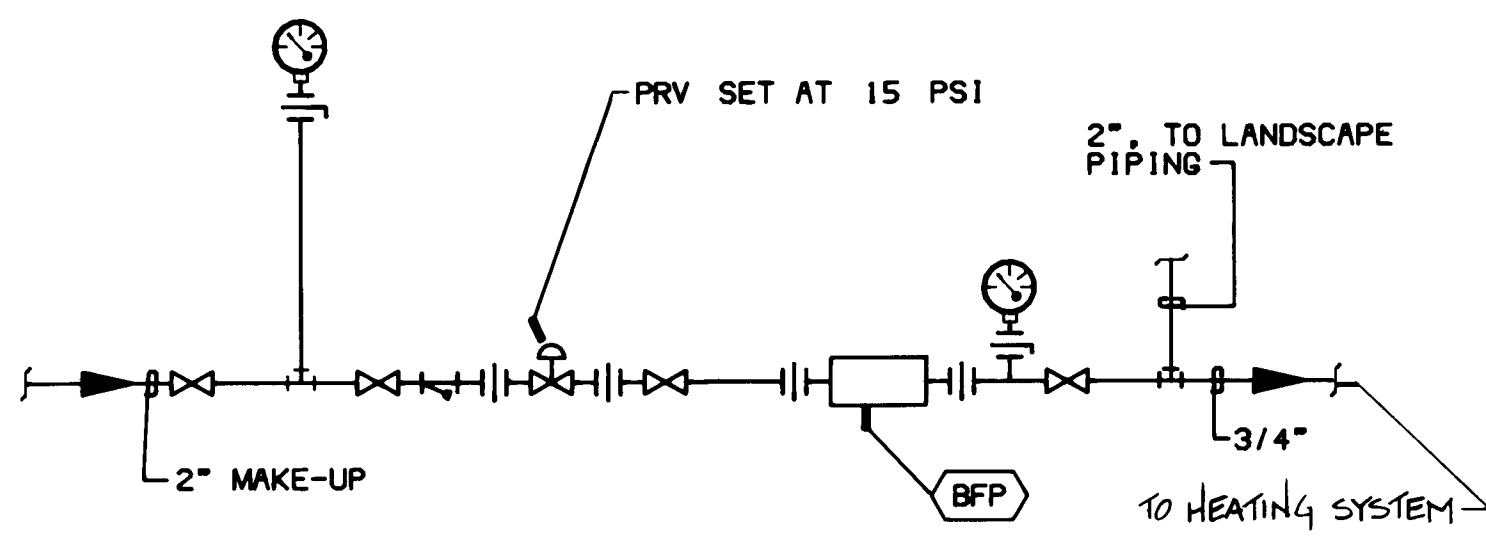
BASEBOARD RADIATION DETAIL

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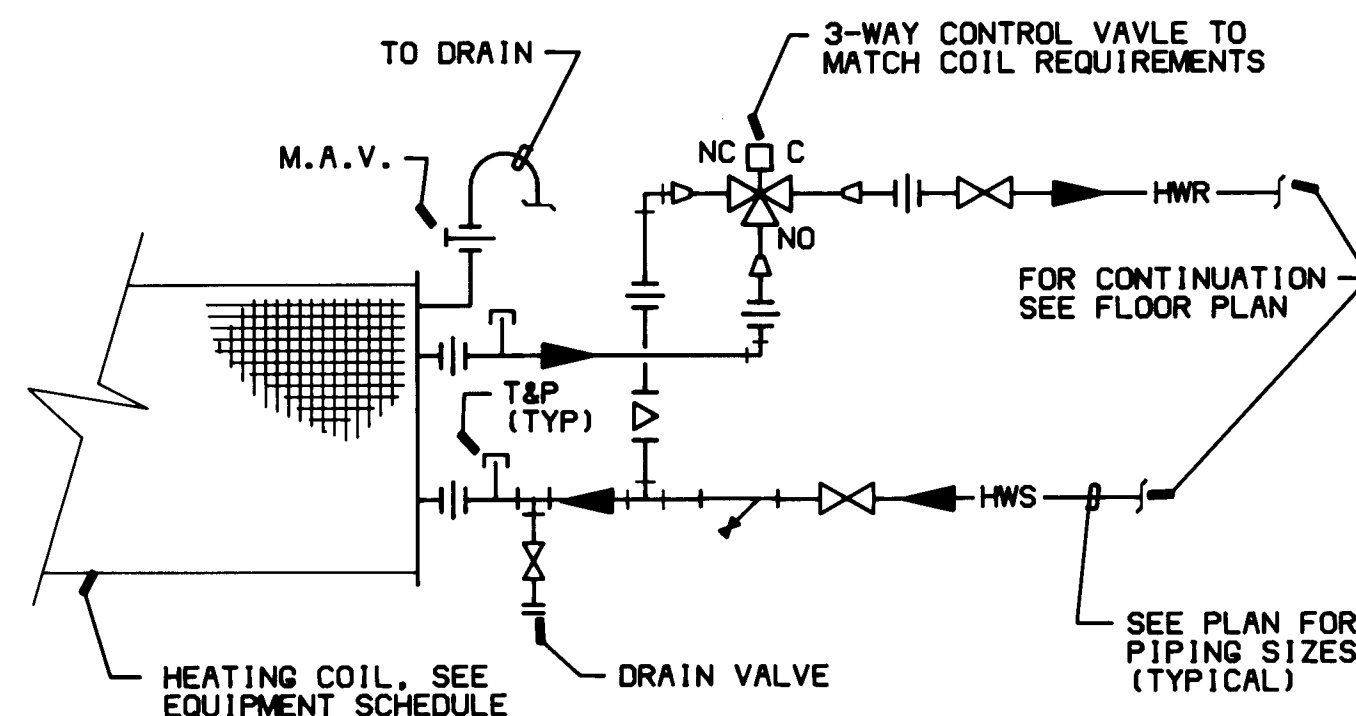
BASEBOARD RADIATION DETAIL

SCALE: NONE



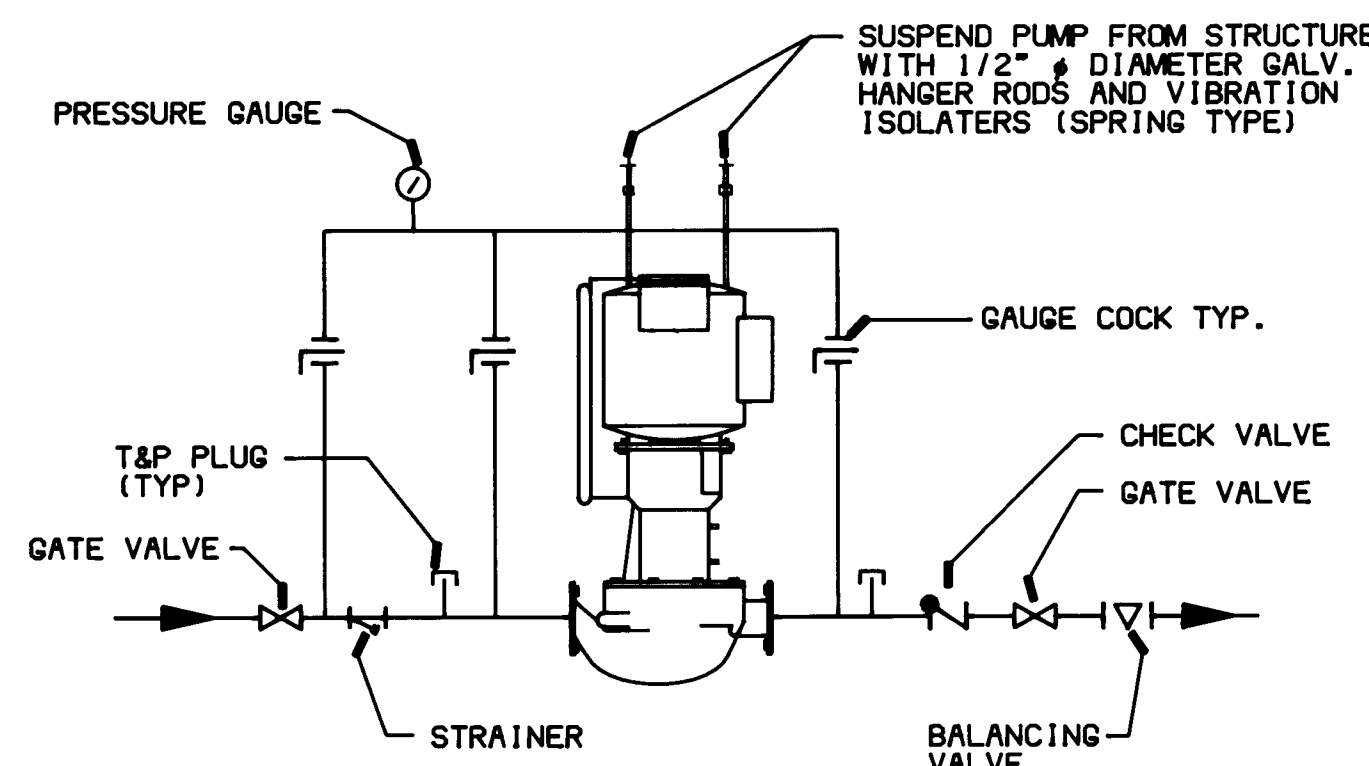
COLD WATER MAKE-UP

SCALE: NONE



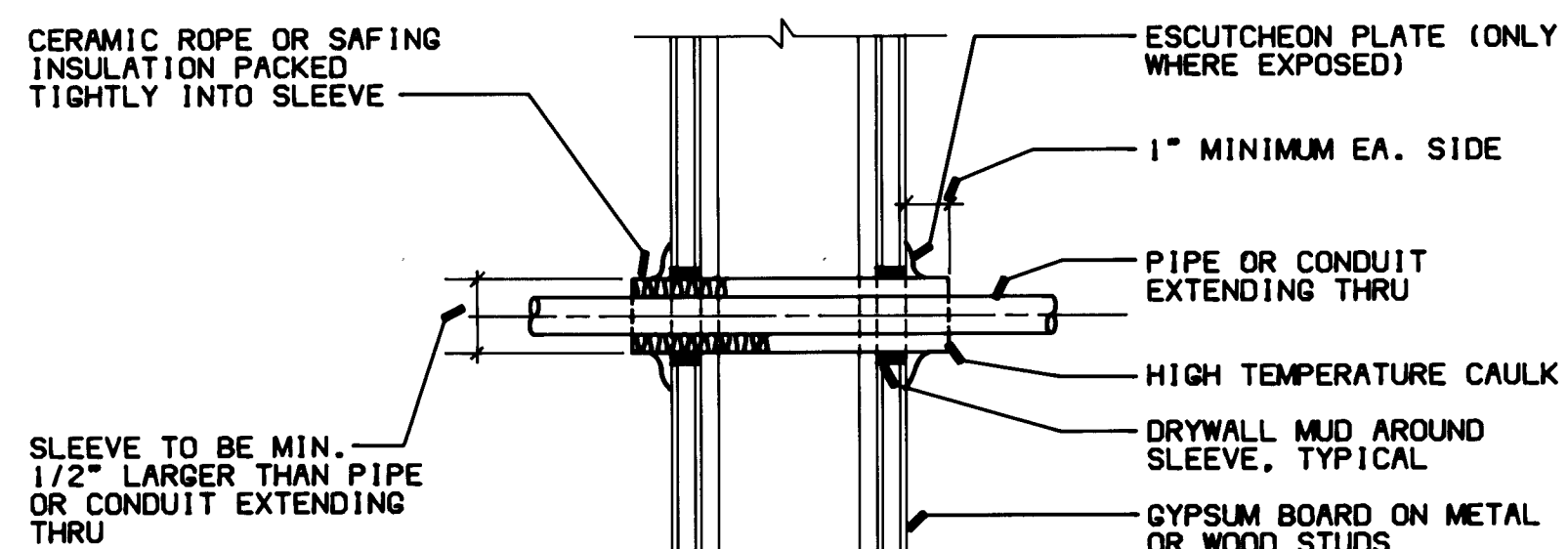
HEATING COIL DETAIL

SCALE: NONE (FC-1 THRU FC-3)



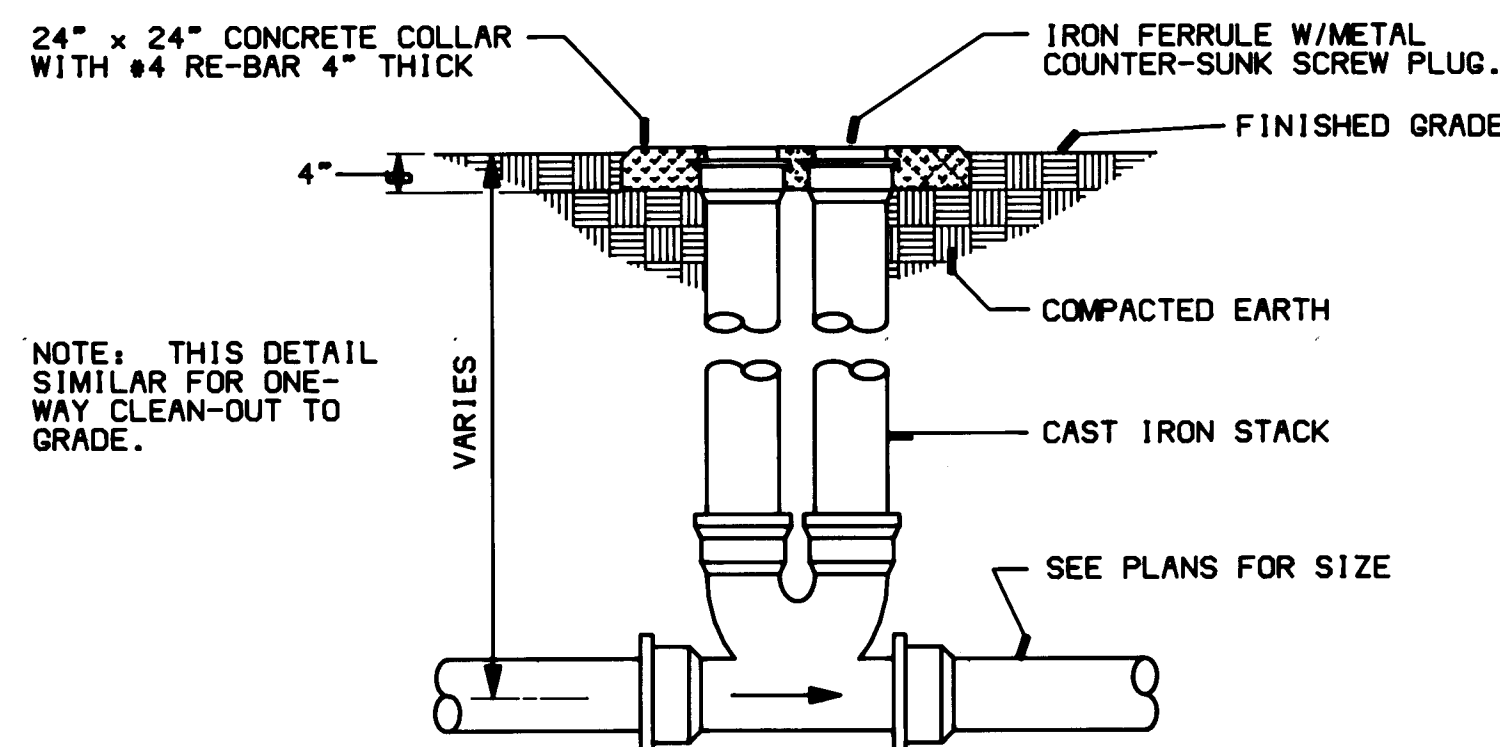
HEATING WATER PUMP CONNECTION DETAIL

SCALE: NONE



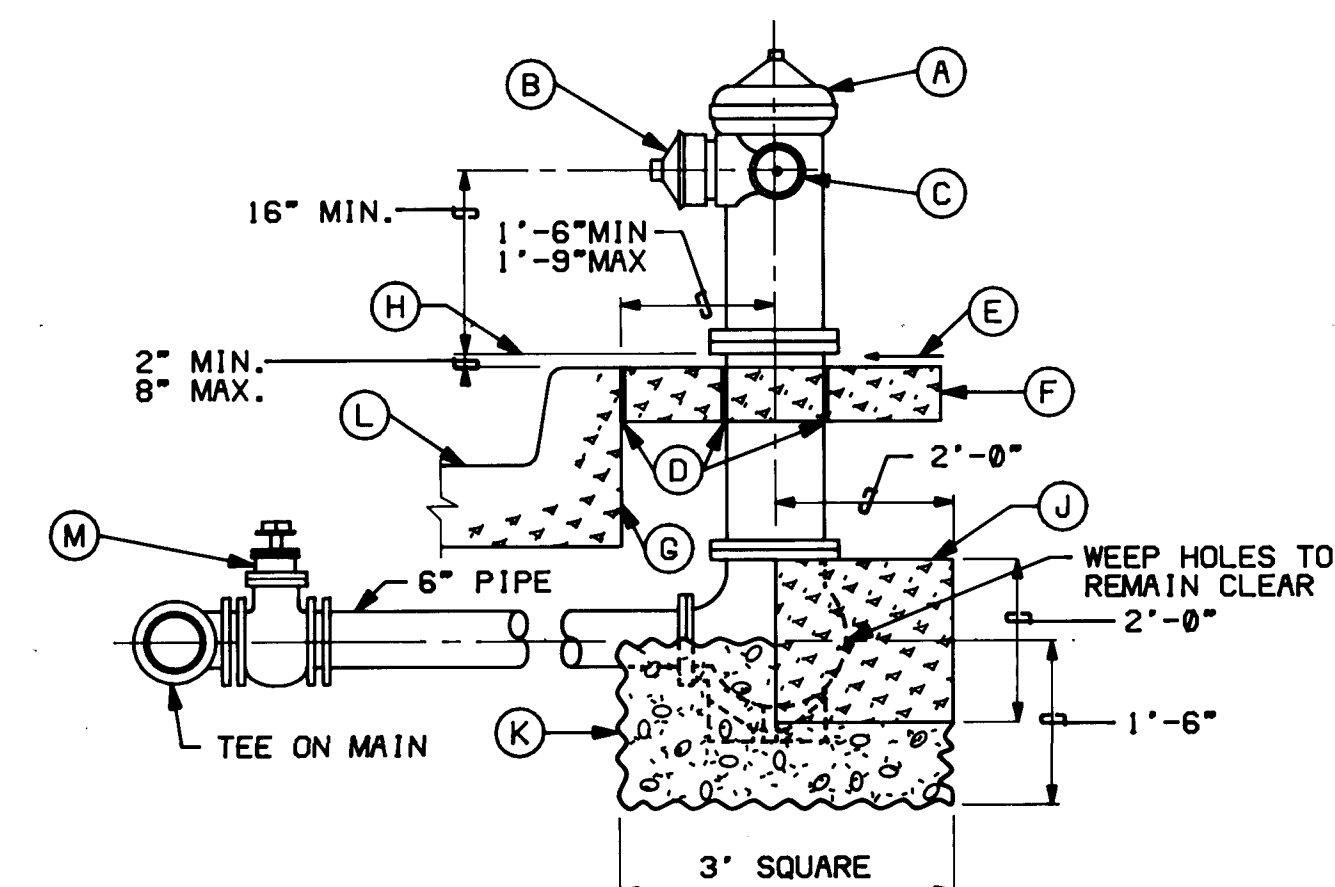
WALL PENETRATION DETAIL

SCALE: NONE (THRU EXTERIOR WALL ONLY)



CLEAN OUT DETAIL

SCALE: NONE



FIRE HYDRANT SETTING WITH BLOCKING DETAIL

SCALE: NONE

GENERAL NOTES

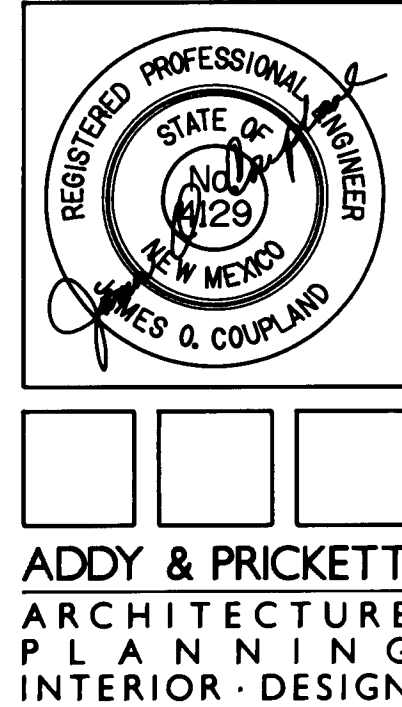
- NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 3 FT OF FIRE HYDRANT.
- HYDRANT LEG SHALL BE VALVED IN COMMERCIAL AND INDUSTRIAL AREAS, IN ARTERIAL STREETS AND ON ALL MAIN LINES SIZED 10" OR GREATER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF FIRE HYDRANT TO THE CONTROLLED ELEVATION LINE.
- FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE, COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. SEE DWG. 2368, 2347.
- WHEN NEW OR EXISTING SIDEWALK ABUTS CURB, RECONSTRUCT SIDEWALK AS PER DWG. 2430, 2431.
- PUMPER NOZZLE TO BE SET FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED ON PLANS.

KEYED CONSTRUCTION NOTES

- (A) FIRE HYDRANT PER SPECIFICATIONS.
- (B) PUMPER NOZZLE 4-1/2".
- (C) HOSE NOZZLE 2-1/2".
- (D) 1/2" EXPANSION JOINT MATERIAL.
- (E) SLOPE 1/4" PER FT.
- (F) 3" X 3" X 6" CONCRETE SQUARE PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONCRETE AREA.
- (G) BACK OF CURB.
- (H) CONTROLLED ELEVATION LINE, LEVEL IN ALL DIRECTIONS.
- (J) CONCRETE THRUST BLOCK, APPROX. 2' X 2' X 3' TO BE POURED AGAINST UNDISTURBED EARTH, F.H. WEEP HOLE MUST BE UNOBSTRUCTED.
- (K) GRAVEL DRAIN POCKET, COVER TOP SURFACE WITH TAR PAPER.
- (L) STANDARD CURB AND GUTTER FOR OTHER TYPES OF CURB AND GUTTER OR WHERE CURB AND GUTTERS ARE EXISTING, THE PLACEMENT OF FIRE HYDRANT REQUIRES SPECIAL DESIGN.
- (M) IF VALVE IS REQUIRED, VALVE WILL BE CONNECTED TO TEE AT MAIN.

CITY OF ALBUQUERQUE
DRAWING NO. 2340

1	2	3	4	5	6	7	8	9	10	11	12
26	31	32	35	8	9						



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ARCHITECTURE
PLANNING
INTERIOR DESIGN

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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

Pen Maria 5/21/87
APPROVED DATE

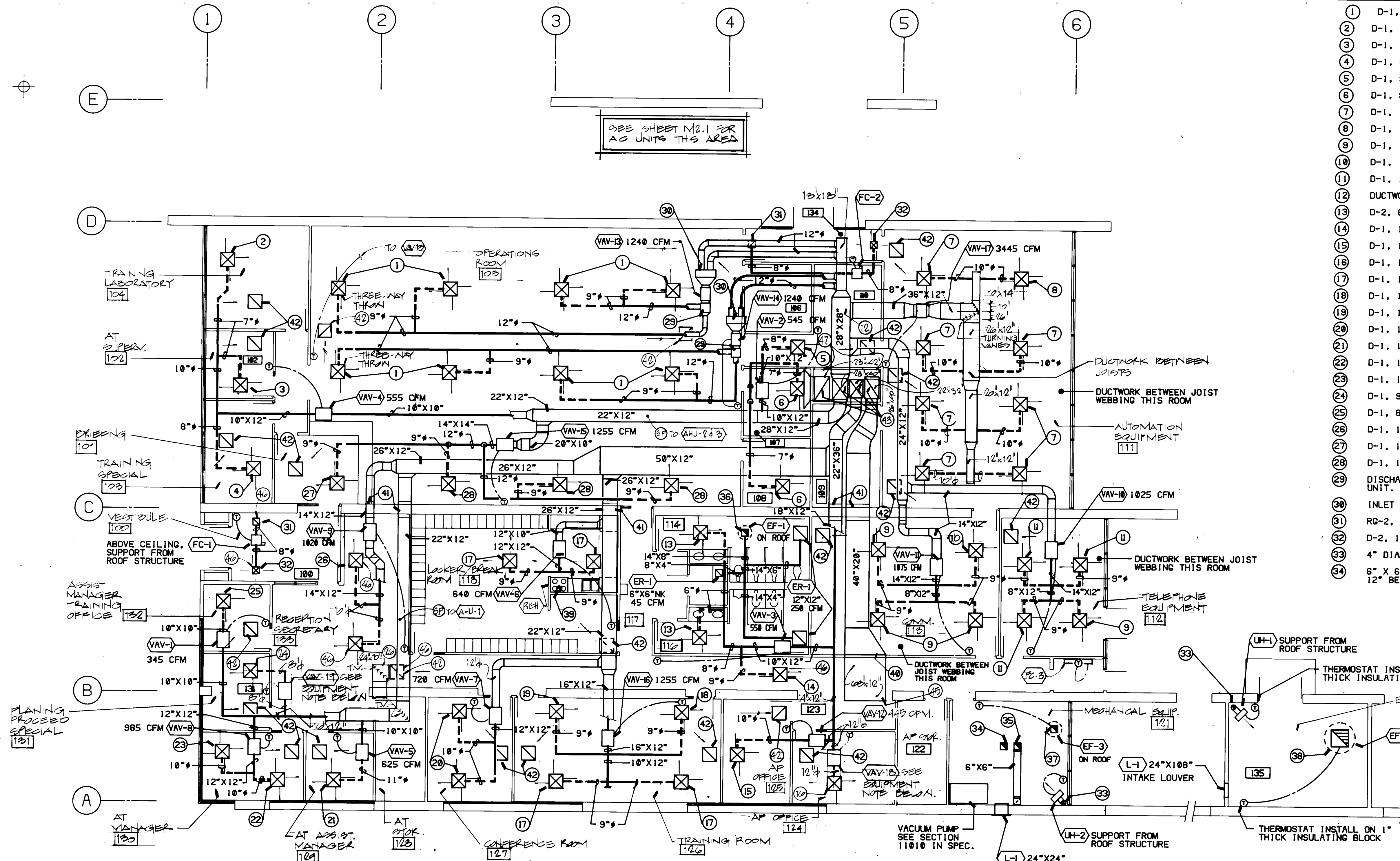
DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
DETAILS &
SCHEMATICS

SHEET

M3.I

SHEET 31 OF 41



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

GENERAL NOTES:

1. SEE SHEET M2.1 FOR HVAC PIPING.
2. SEE SHEETS M2.1 & M2.3 FOR DETAILS & SCHEMATICS.
3. SEE SHEET M2.2 FOR FURNITURE SCHEDULE, EQUIPMENT SCHEDULE AND SEQUENCE OF CONTROL.

EQUIPMENT NOTE: SEE EQUIPMENT SCHEDULE, SHEET M2.2 FOR SPECIFICATIONS OF FOLLOWING VAV BOXES.

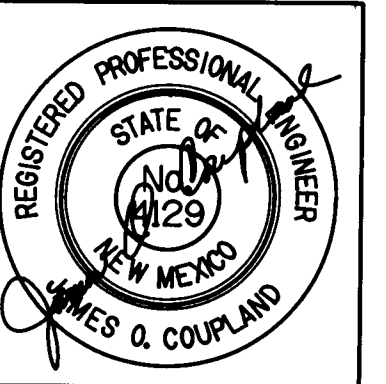
SYMBOL	SIZE	CFM	MAX. APP.	MAX. AIRBORNE	NO. RATED
VAV-15	8	650	.25	24	26
VAV-19	0	215	.25	40	25

KEYED NOTES

- 1 D-1, 10" X 10" NK, 310 CFM.
- 2 D-1, 8" X 8" NK, 190 CFM.
- 3 D-1, 8" X 8" NK, 165 CFM, THREE-WAY THROW.
- 4 D-1, 8" X 8" NK, 200 CFM, THREE-WAY THROW.
- 5 D-1, 9" X 9" NK, 245 CFM, TWO-WAY THROW.
- 6 D-1, 8" X 8" NK, 150 CFM, THREE-WAY THROW.
- 7 D-1, 12" X 12" NK, 430 CFM.
- 8 D-1, 12" X 12" NK, 435 CFM.
- 9 D-1, 10" X 10" NK, 170 CFM.
- 10 D-1, 10" X 10" NK, 295 CFM.
- 11 D-1, 10" X 10" NK, 255 CFM.
- 12 DUCTWORK RUN IN JOIST WEBBING.
- 13 D-2, 6" X 6" NK, 100 CFM.
- 14 D-1, 12" X 12" NK, 350 CFM.
- 15 D-1, 12" X 12" NK, 445 CFM, THREE-WAY THROW.
- 16 D-1, 15" X 15" NK, 650 CFM.
- 17 D-1, 10" X 10" NK, 320 CFM, THREE-WAY THROW.
- 18 D-1, 10" X 10" NK, 305 CFM.
- 19 D-1, 10" X 10" NK, 310 CFM.
- 20 D-1, 12" X 12" NK, 360 CFM.
- 21 D-1, 15" X 15" NK, 625 CFM.
- 22 D-1, 15" X 15" NK, 495 CFM.
- 23 D-1, 15" X 15" NK, 490 CFM.
- 24 D-1, 9" X 9" NK, 215 CFM.
- 25 D-1, 8" X 8" NK, 130 CFM.
- 26 D-1, 15" X 15" NK, 510 CFM.
- 27 D-1, 10" X 10" NK, 325 CFM, THREE-WAY THROW.
- 28 D-1, 10" X 10" NK, 310 CFM, THREE-WAY THROW.
- 29 DISCHARGE PLENUM, 16" LONG X 14" X 14" WITH FLEX CONNECTION AT UNIT.
- 30 INLET PLENUM 16" LONG X 34" X 14" WITH FLEX CONNECTION AT UNIT.
- 31 RG-2, 12" X 12".
- 32 D-2, 12" X 12" NK, 200 CFM.
- 33 4" DIAMETER FLUE UP THROUGH ROOF, SEE FLUE THROUGH ROOF DETAIL.
- 34 6" X 6" COMBUSTION AIR DUCT DOWN THROUGH ROOF FROM GOOSENECK TO 12" BELOW CEILING. SEE GOOSENECK DETAIL.

KEYED NOTES (CONT.)

- 35 6" X 6" COMBUSTION AIR DUCT DOWN THROUGH ROOF FROM GOOSENECK, TRANSITION BETWEEN ROOF JOISTS AND TURN DOWN TO 12" ABOVE FINISH FLOOR.
- 36 12" X 12" EXHAUST DUCT UP THROUGH ROOF FROM CEILING SPACE TO EF-1 ON ROOF.
- 37 12" X 12" EXHAUST DUCT DOWN THROUGH ROOF FROM EF-3 ON ROOF. TERMINATE DUCTWORK 12" BELOW CEILING WITH 1/4" WIDE MESH BIRD SCREEN SECURED TO OPENING OF DUCT.
- 38 28" X 28" EXHAUST DUCT DOWN THROUGH ROOF FROM EF-2 ON ROOF. TERMINATE DUCTWORK 12" BELOW CEILING WITH 1/4" WIDE MESH BIRD SCREEN SECURED TO OPENING OF DUCT.
- 39 7" DIAMETER EXHAUST DUCT UP THROUGH ROOF FROM RANGE HOOD TO GOOSENECK ON ROOF.
- 40 TRANSITION 40" X 20" RETURN DUCT TO 68" X 12" AND HOLD TIGHT TO BOTTOM OF BEAM. SEE DETAIL.
- 41 DUCTWORK TIGHT TO BOTTOM OF BEAM. SEE DETAIL.
- 42 RG-1, 22" X 22".
- 43 SEE UNDER FLOOR HVAC PLAN FOR DUCTWORK IN THIS AREA.
- 44 D-1, 10" X 10" NK, 265 CFM.
- 45 TERMINATE 68" X 12" RA DUCT AT THIS POINT ABOVE CEILING.
- 46 INSTALL FIRE DAMPER AND BLANKET
- 47 INSTALL ACCESS DOOR, SEE ARCH. DRAWINGS.



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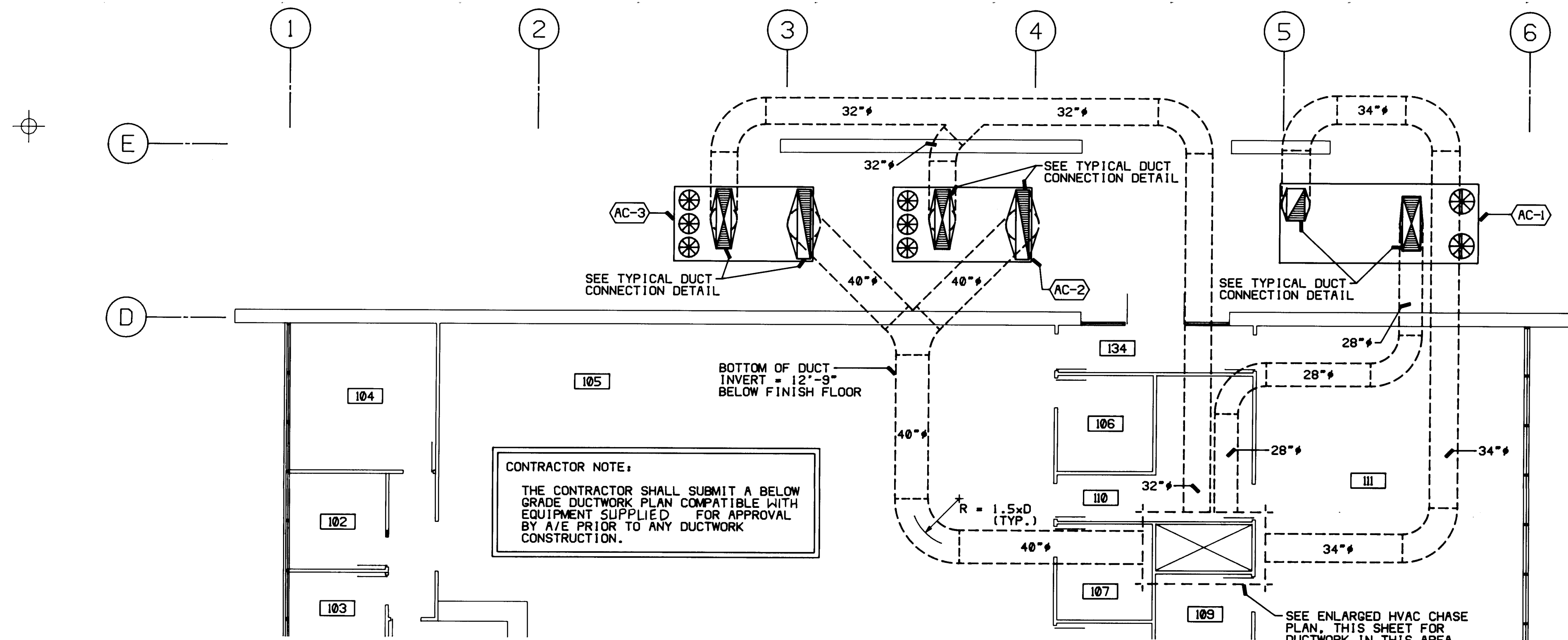
FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

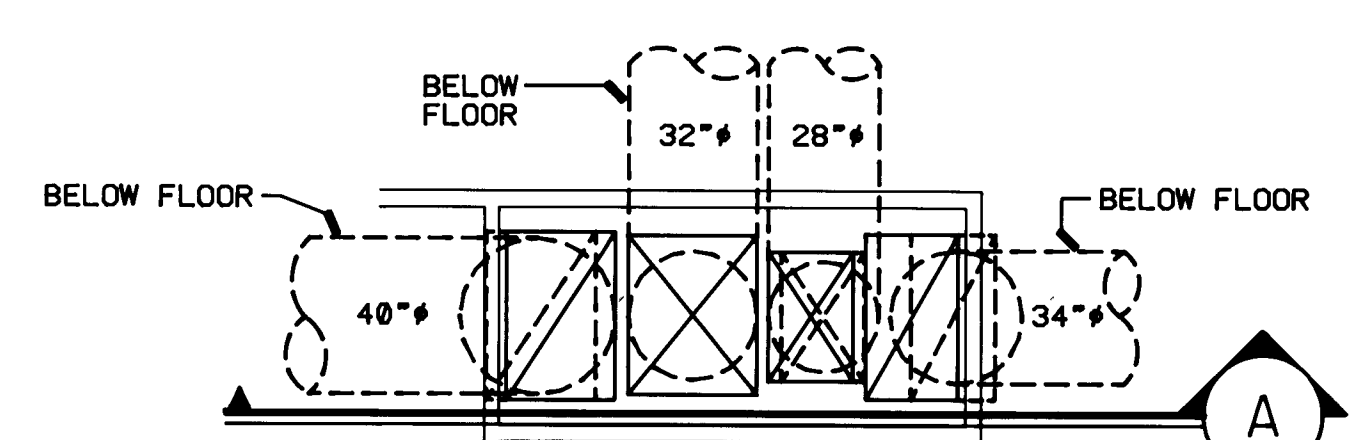
TITLE
HVAC PLAN
SHEET

M2.2

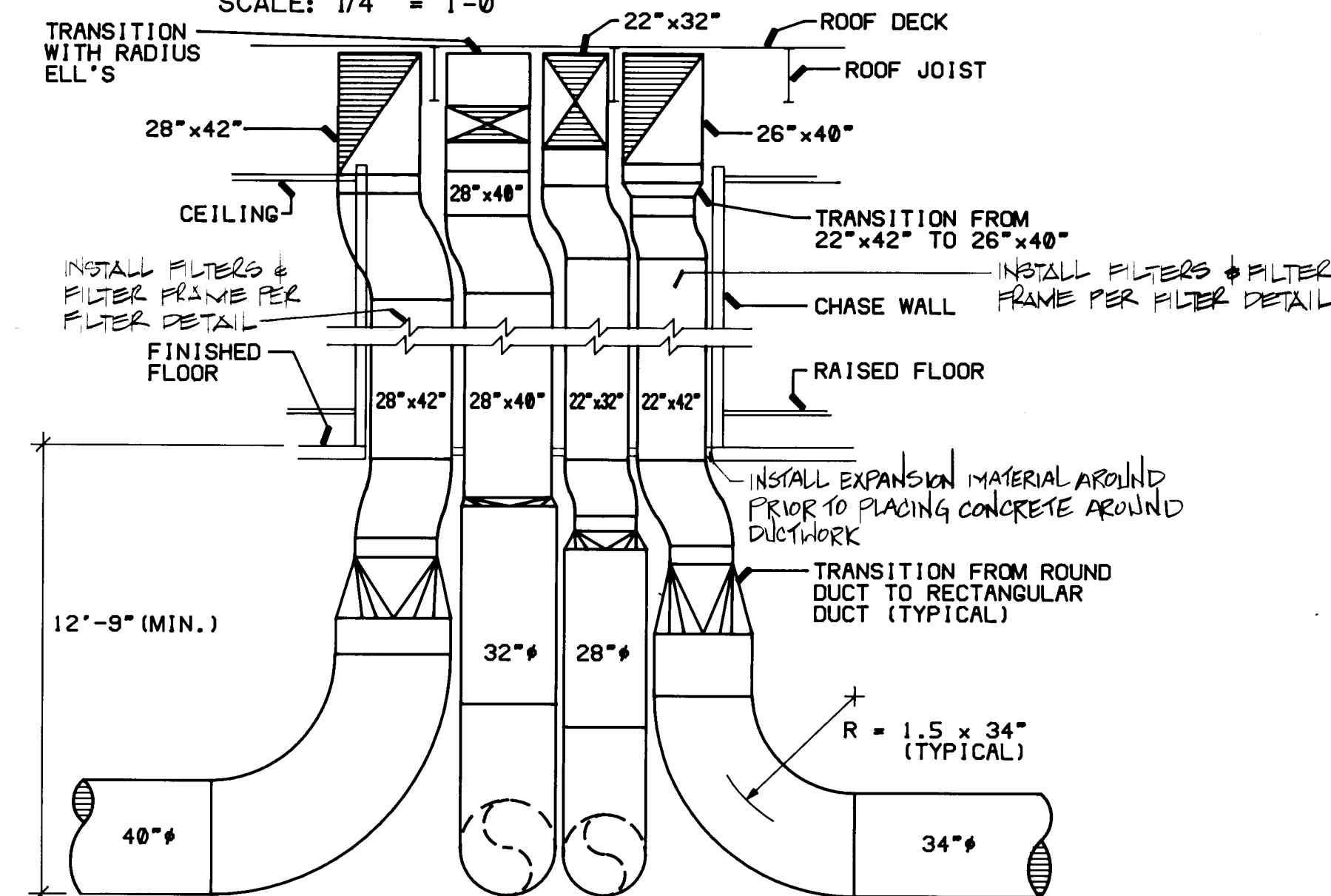
SHEET 29 OF 41



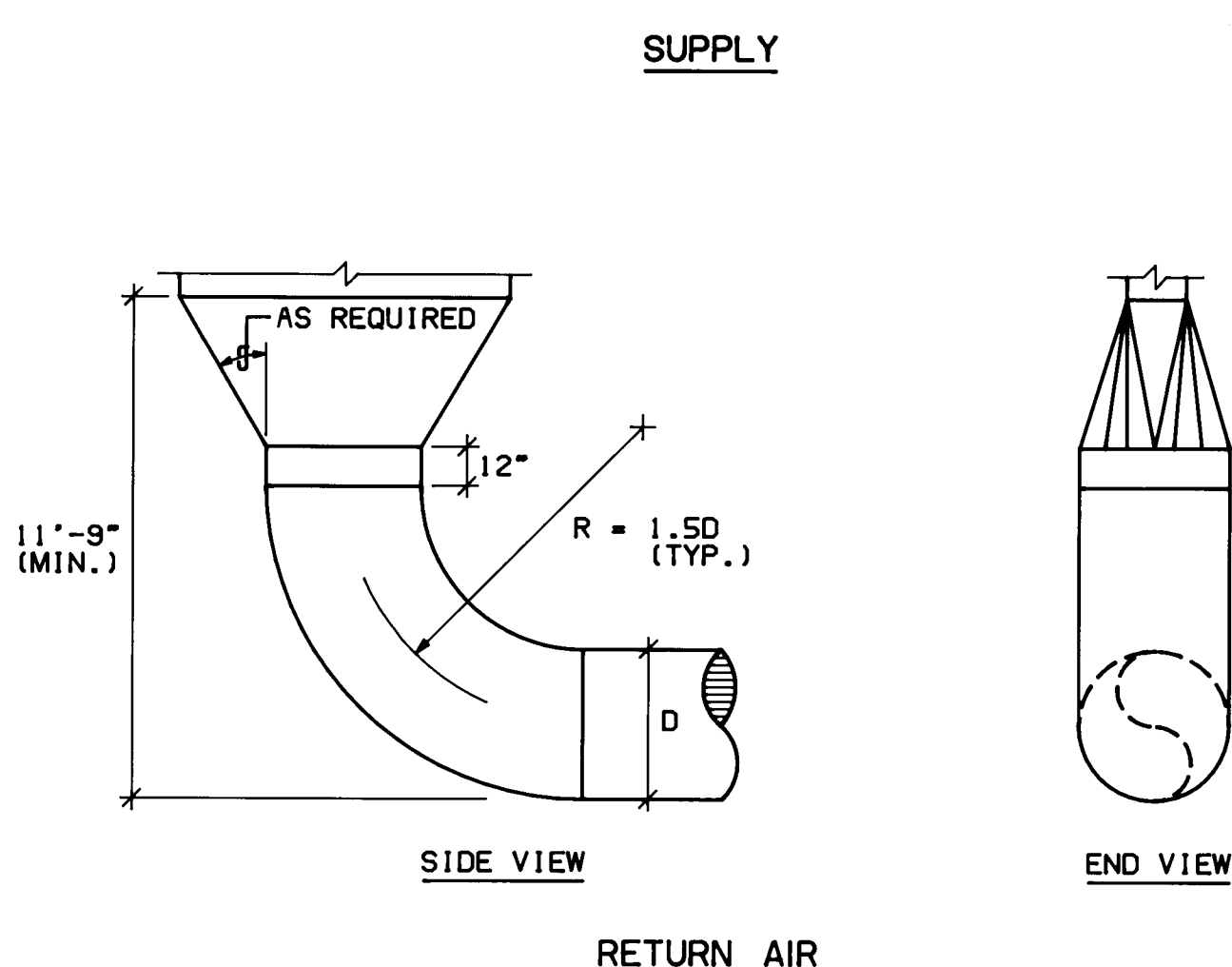
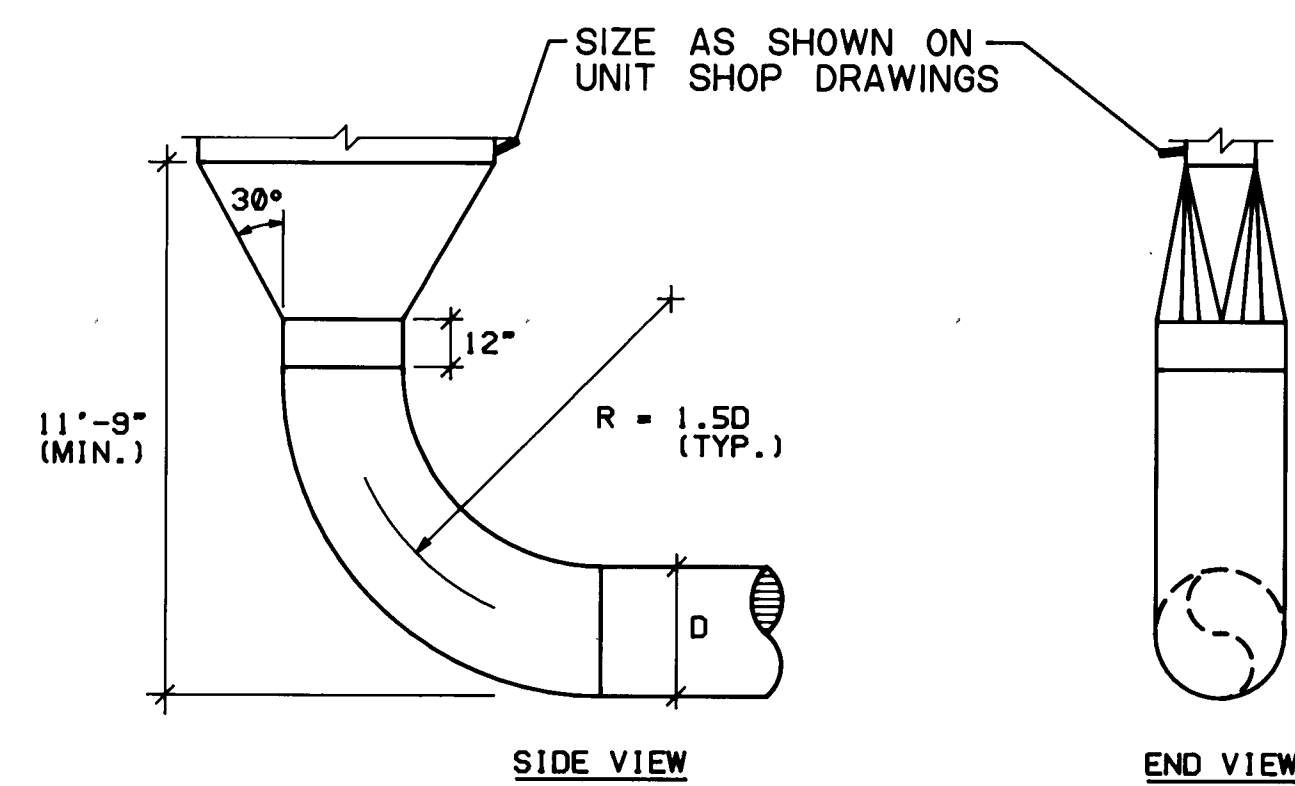
UNDERFLOOR HVAC PARTIAL PLAN
1/8" = 1'-0"



ENLARGED HVAC CHASE PLAN
SCALE: 1/4" = 1'-0"



SECTION THRU HVAC CHASE
SCALE: 1/4" = 1'-0"



TYPICAL DUCT CONNECTION DETAIL
SCALE: NONE

4 RINGS OF 2 (2 TOTAL)
20" x 20" x 2" FARR 30/30
FILTERS INSTALLED IN
FILTER FRAME

20" x 42" R.A. DUCT
IN DUCT CHASE

6" WIDE x FULL HEIGHT
OF FRAME ACCESS DOOR
REQUIRED TO DUCT WITH
QUICK OPEN FASTENERS,
COMPLETE W/ CONTINUOUS
SPONGE RUBBER GASKET
AROUND EDGES OF DOOR.

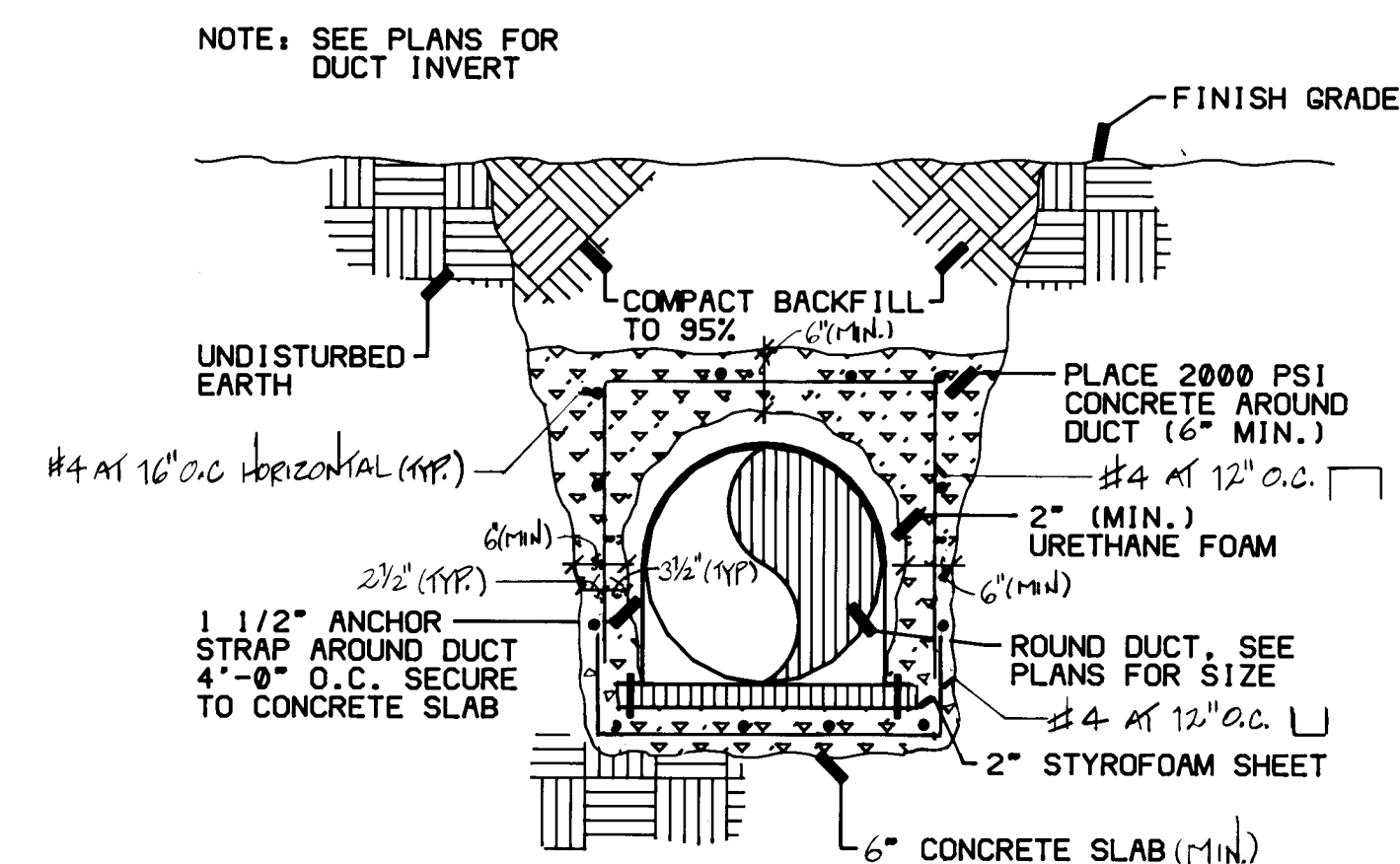
SECURE FRAME
TO DUCTWORK

SECTION THRU DUCT

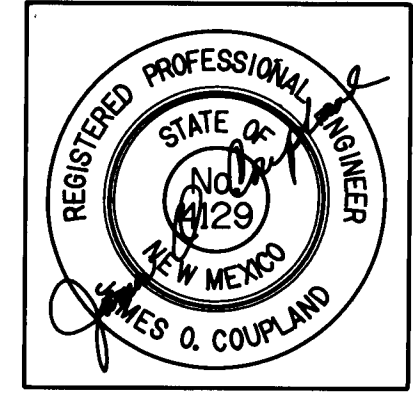
FOR 22" x 42" R.A. DUCT:
5 RINGS OF 2 (10 TOTAL)
20" x 20" x 2" FARR 30/30
FILTERS INSTALLED IN
FILTER FRAME.

NOTE:
CONTRACTOR SHALL COORDINATE FILTER LOCATION WITH
GENERAL CONTRACTOR AND WALL ACCESS DOOR LOCATION.

RA DUCT FILTER DETAIL
SCALE: 3/4" = 1'-0"



BELOW GRADE DUCT DETAIL
SCALE: NONE



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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED: *Jim Mark* 5/28/07
DATE: 5/21/07
PROJECT: 86007
REVISIONS:

TITLE
BELOW FLOOR
HVAC PARTIAL
PLAN
SHEET

M2.1
SHEET 28 OF 41

1	2	3	4	5	6	7	8	9	10	11	12
26	31	32	32	32	32	32	32	32	32	32	32

JOB NAME : FAA FLIGHT SERVICE
LOCATION : ALBUQUERQUE, NEW MEXICO
JOB NUMBER : 86007
ARCHITECT : ADDY AND PRICKETT
BUILDING NAME : FLIGHT SERVICE STATION BUILDING

DESIGN CONDITIONS

OUTSIDE CONDITIONS
SUMMER: 94 F DB 65 F WB
WINTER: 16 F DB
INSIDE CONDITIONS
SUMMER: 78 F DB
WINTER: 70 F DB

AVERAGE THERMAL TRANSMITTANCE

DESCRIPTION	U VALUE	AREA	U*A	
WALL 1	0.049	5208	256.8	
GLASS 1	0.640	787	503.7	
GLASS 2	0.620	375	232.5	
DOOR 1	0.400	147	58.8	
TOTALS		6517	1051.7	WALL U0 = 0.161
ROOF 1	0.041	10625	434.6	
TOTALS		10625	434.6	ROOF U0 = 0.041

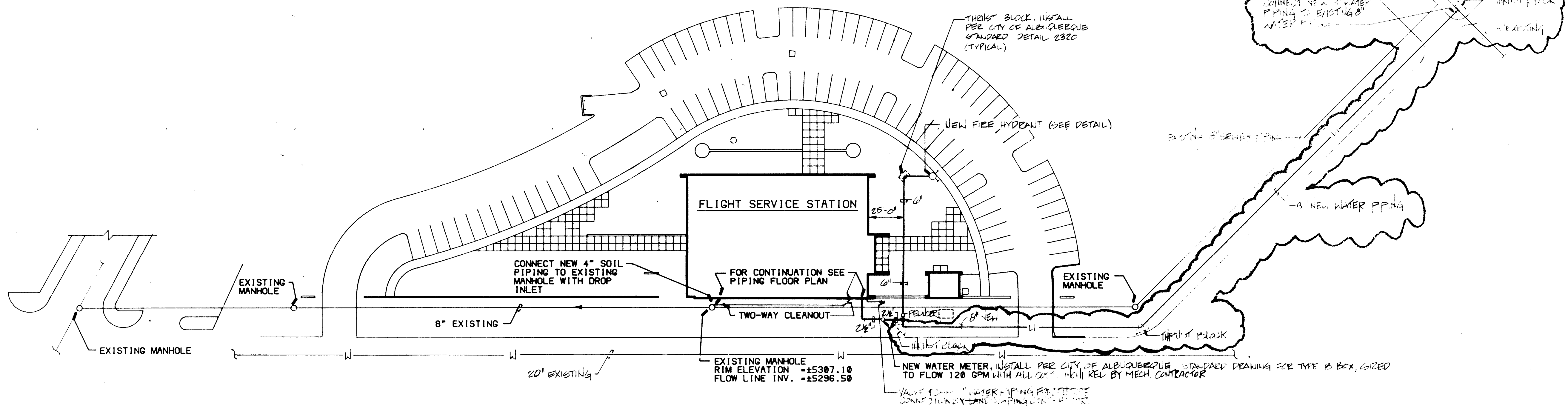
THERMAL TRANSMITTANCE COMPARISON

DESCRIPTION	AREA	U VALUES CALC. CODE	UA (BTU/HR-F) CALC. CODE	WT. R - VALUE ACTUAL CODE
EXTERIOR WALLS	6517	.1614 .310	1051.7 2020.3	6.20 3.23
ROOF/CEILING	10625	.0409 .050	434.6 531.3	24.45 20.00
FLOOR				5.00 3.80
TOTALS			1486.3	2551.5

OVERALL THERMAL TRANSFER VALUE (OTTV)

INPUT: SOLAR FACTOR = 124
SHADING COEFFICIENT CLASS 1 = .62
SHADING COEFFICIENT CLASS 2 = .84
TD-EQ WALL 1 = 44
TD-EQ DOOR 1 = 44

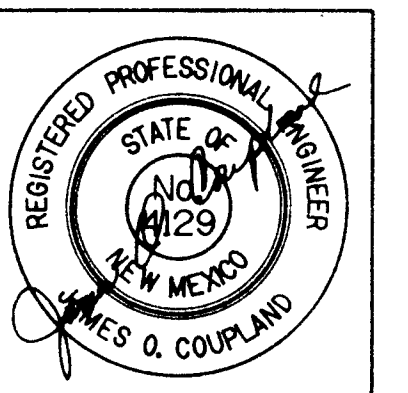
CALCULATED OTTV = 19.22 BTU/HR-SQ FT
MAX. CODE OTTV = 32.00 BTU/HR-SQ FT



MECHANICAL SITE PLAN
SCALE: 1" = 40'-0"

NOTES: BALLOONING INDICATES NEW WORK

1 2 3 4 5 6 7 8 9 10 11 12
26 31 32 31 89



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ARCHITECTURE
PLANNING
INTERIOR DESIGN

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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED: [Signature] DATE: 5/21/87

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
MECHANICAL
SITE PLAN
SHEET

M.I.

JOB NAME : FAA FLIGHT SERVICE
LOCATION : ALBUQUERQUE, NEW MEXICO
JOB NUMBER : 86047
ARCHITECT : ADDY AND PRICKETT
BUILDING NAME : FLIGHT SERVICE STATION BUILDING

DESIGN CONDITIONS

OUTSIDE CONDITIONS
SUMMER: 94 F DB 65 F WB
WINTER: 16 F DB
INSIDE CONDITIONS
SUMMER: 78 F DB
WINTER: 70 F DB

AVERAGE THERMAL TRANSMITTANCE

DESCRIPTION	U VALUE	AREA	U*A		
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GLASS 1	0.640	787	503.7		
GLASS 2	0.620	375	232.5		
DOOR 1	0.400	147	58.8		
TOTALS		6517	1051.7	WALL U0 =	0.161
ROOF 1	0.041	10625	434.6		
TOTALS		10625	434.6	ROOF U0 =	0.041

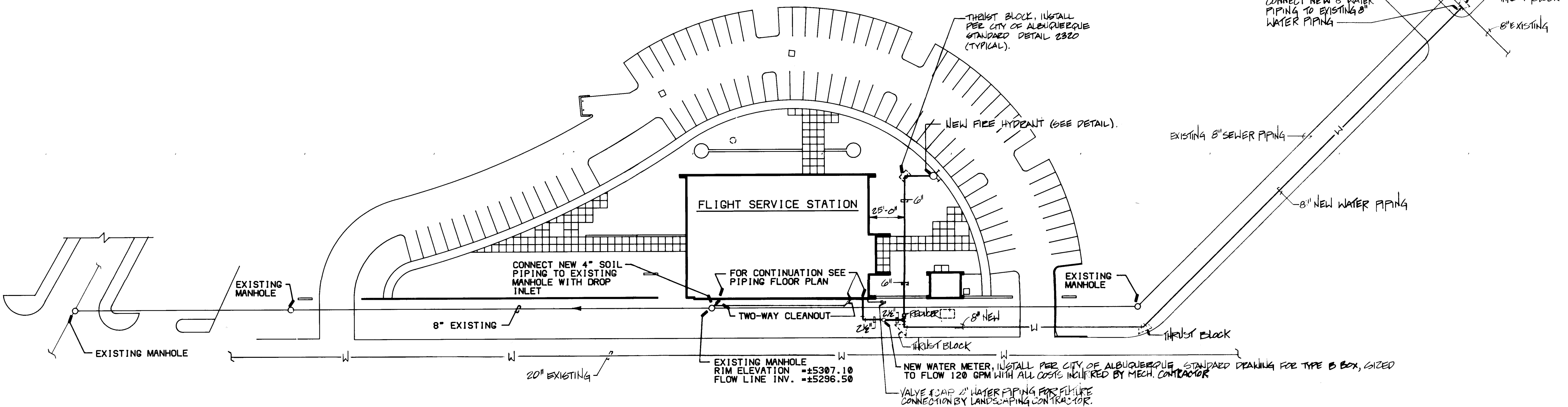
THERMAL TRANSMITTANCE COMPARISON

DESCRIPTION	AREA	U VALUES CALC. CODE	UA (BTU/HR-F) CALC. CODE	WT. R - VALUE ACTUAL CODE
EXTERIOR WALLS	6517	.1614 .310	1051.7 2020.3	6.20 3.23
ROOF/CEILING	10625	.0409 .050	434.6 531.3	24.45 20.00
FLOOR				5.00 3.80
TOTALS			1486.3 2551.5	

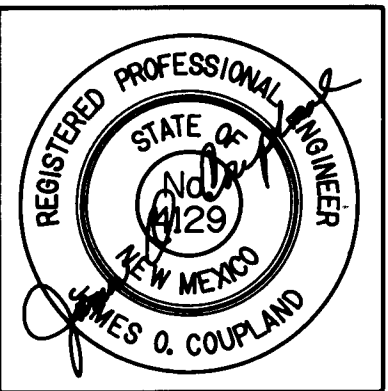
OVERALL THERMAL TRANSFER VALUE (OTTV)

INPUT: SOLAR FACTOR = 124
SHADING COEFFICIENT GLASS 1 = .62
SHADING COEFFICIENT GLASS 2 = .84
TD-EQ WALL 1 = 44
TD-EQ DOOR 1 = 44

CALCULATED OTTV = 19.22 BTU/HR-SQ FT
MAX. CODE OTTV = 32.00 BTU/HR-SQ FT



MECHANICAL SITE PLAN
SCALE: 1" = 40' -0"



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ARCHITECTURE
PLANNING
INTERIOR DESIGN

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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

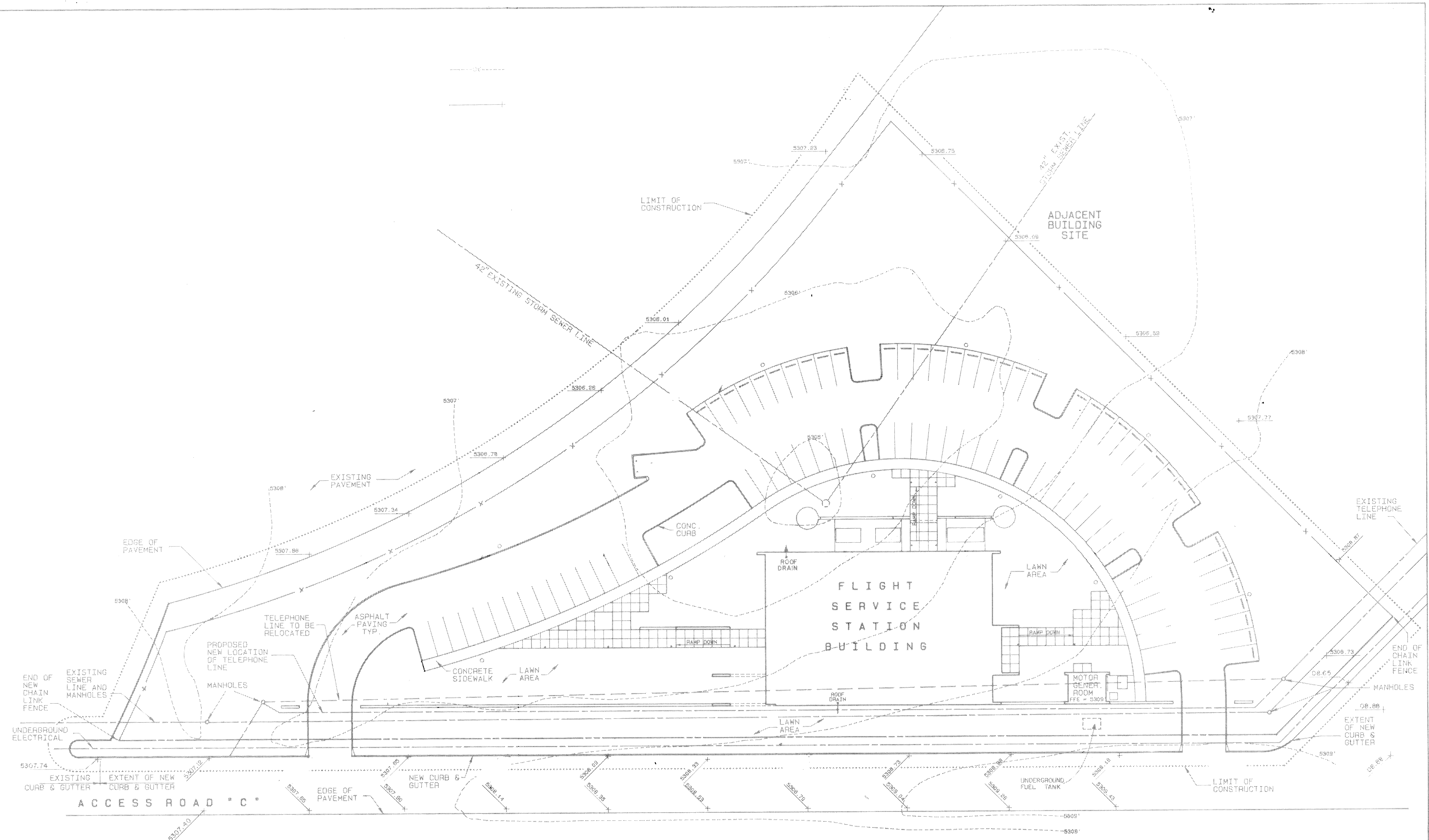
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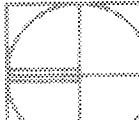
DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
MECHANICAL
SITE PLAN
SHEET

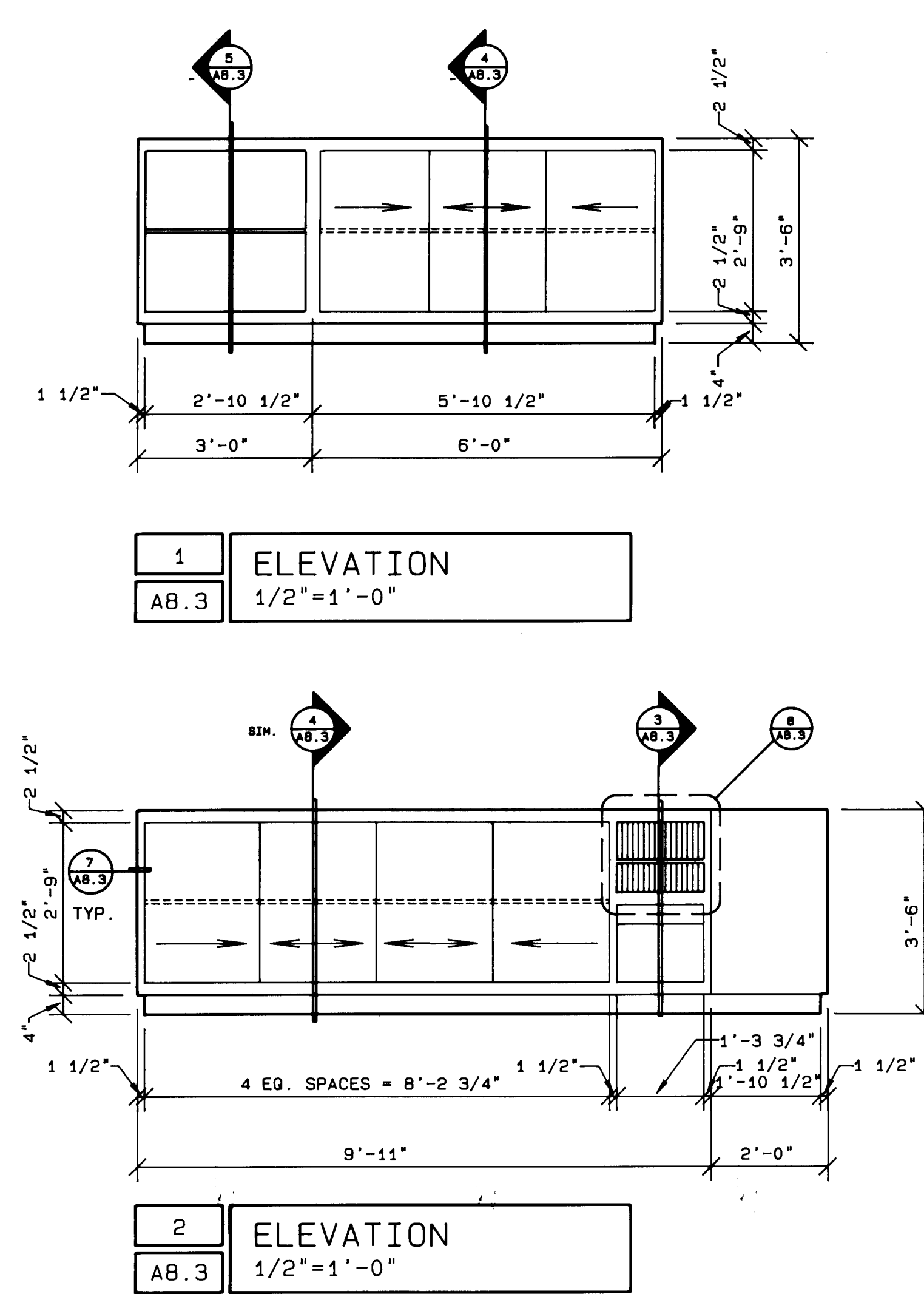
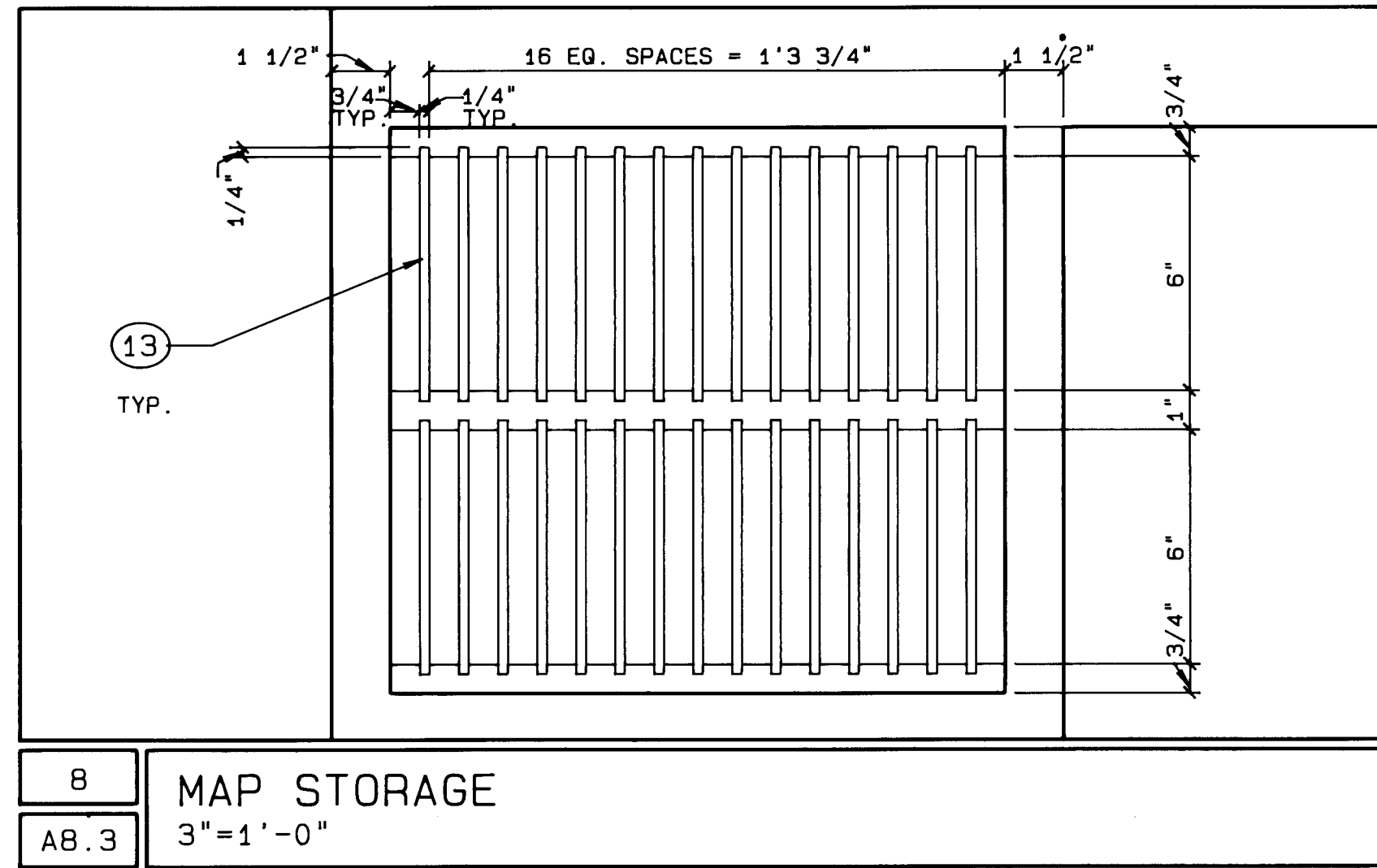
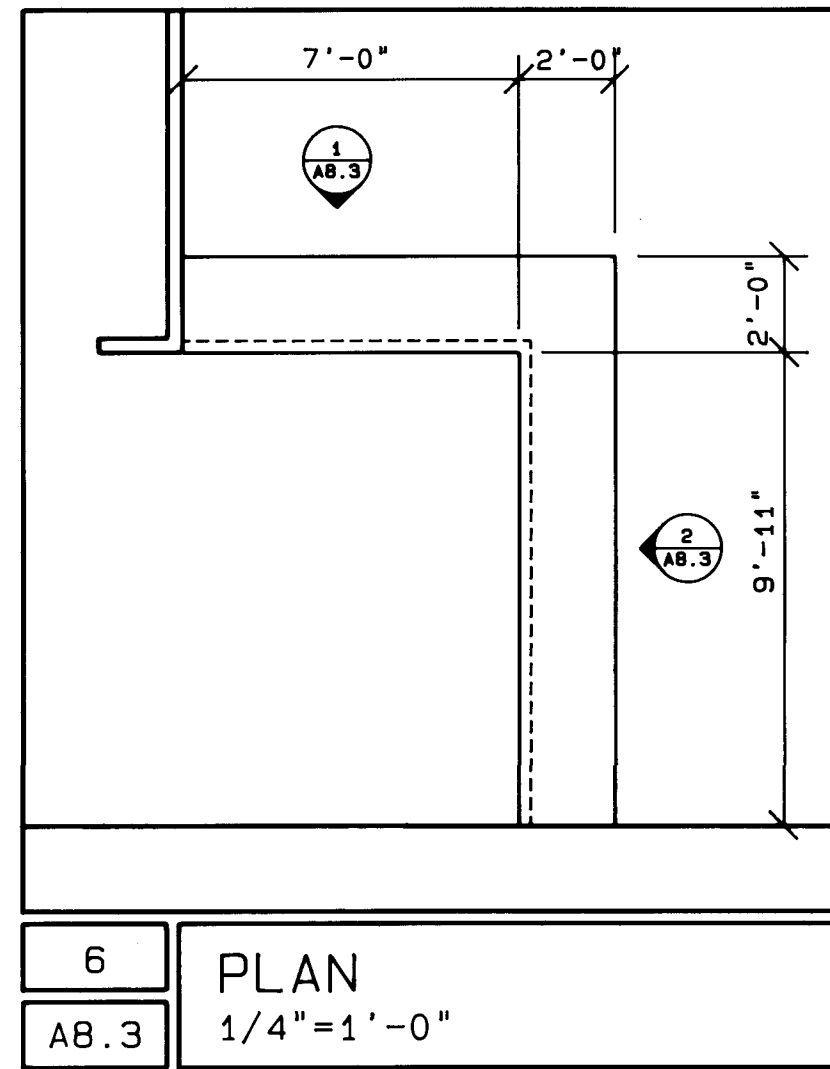
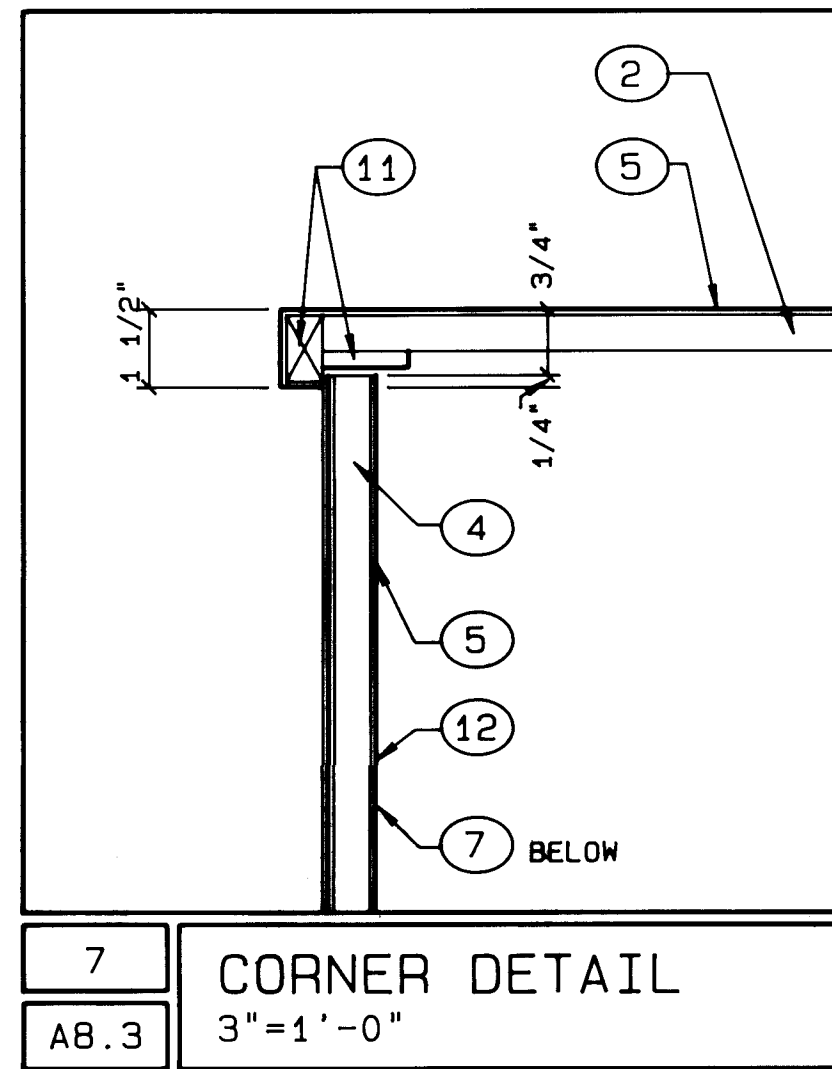
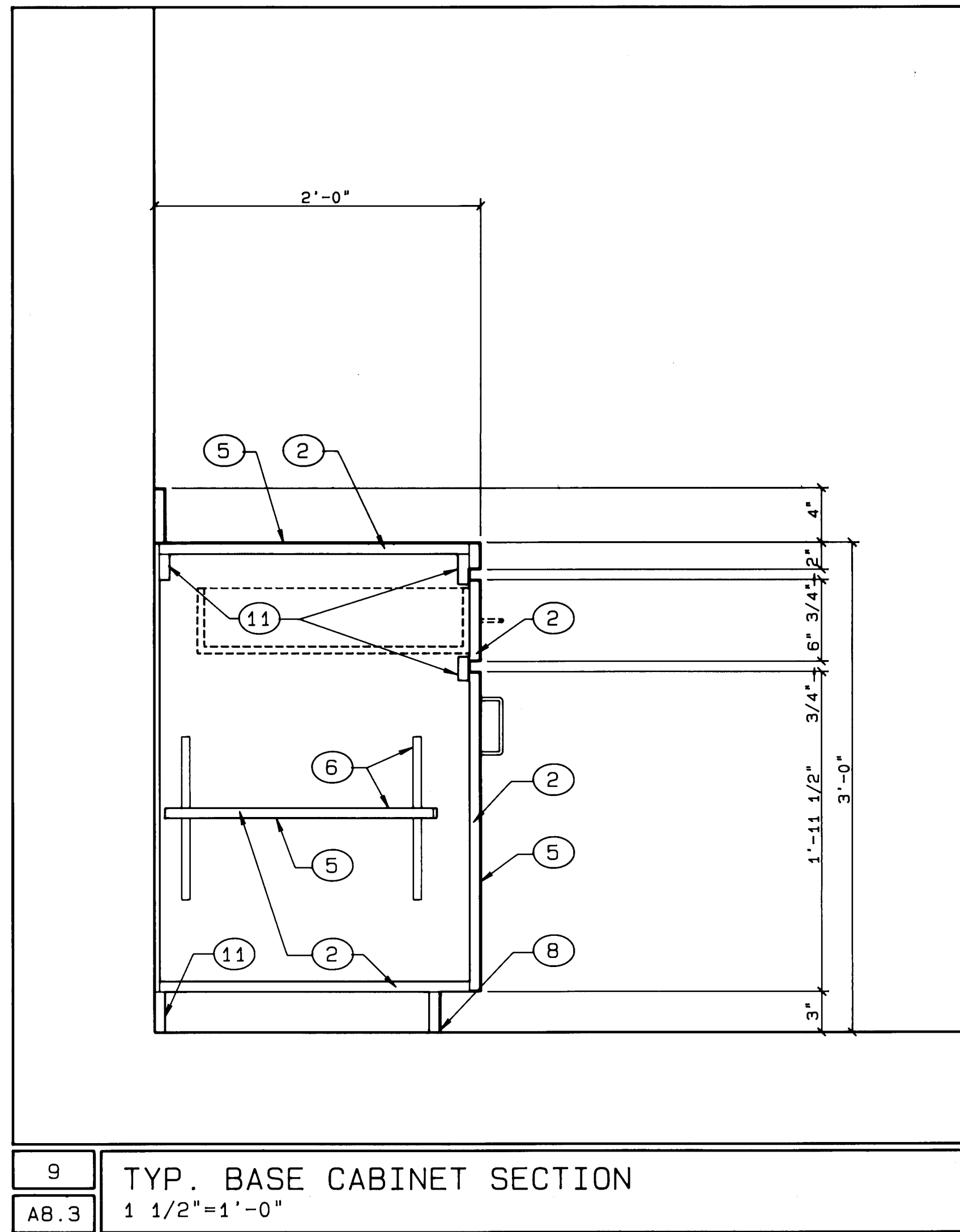
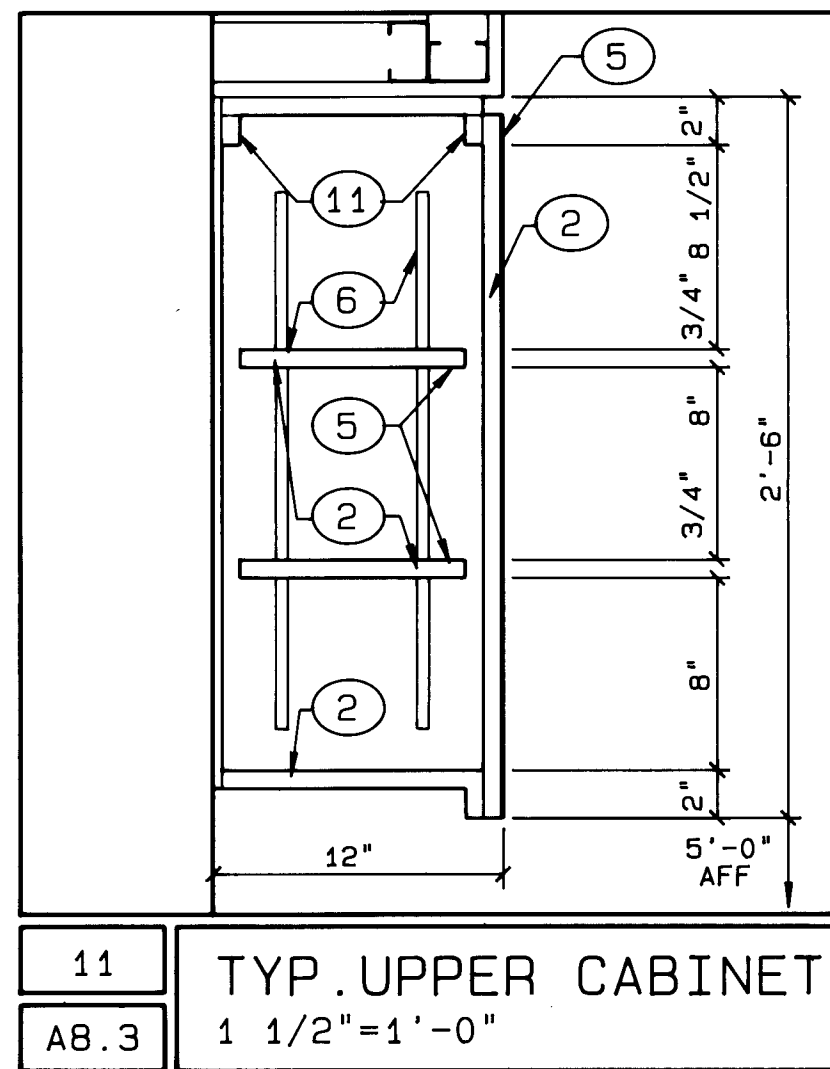
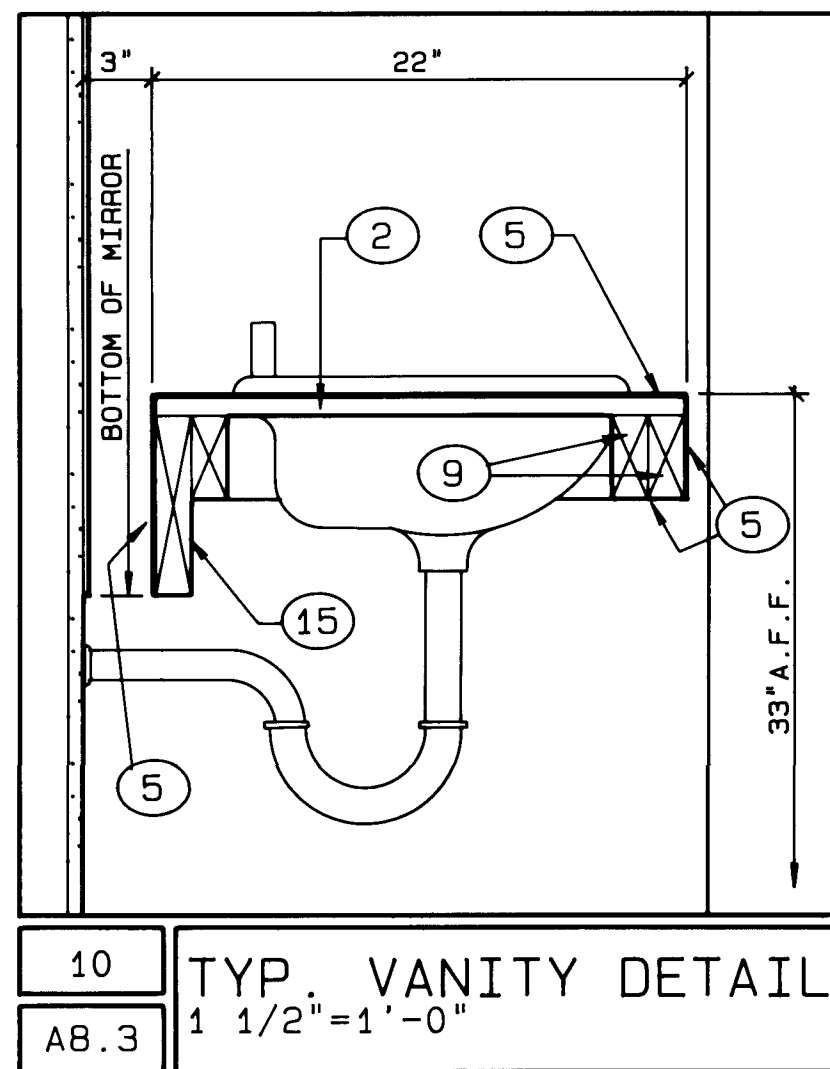
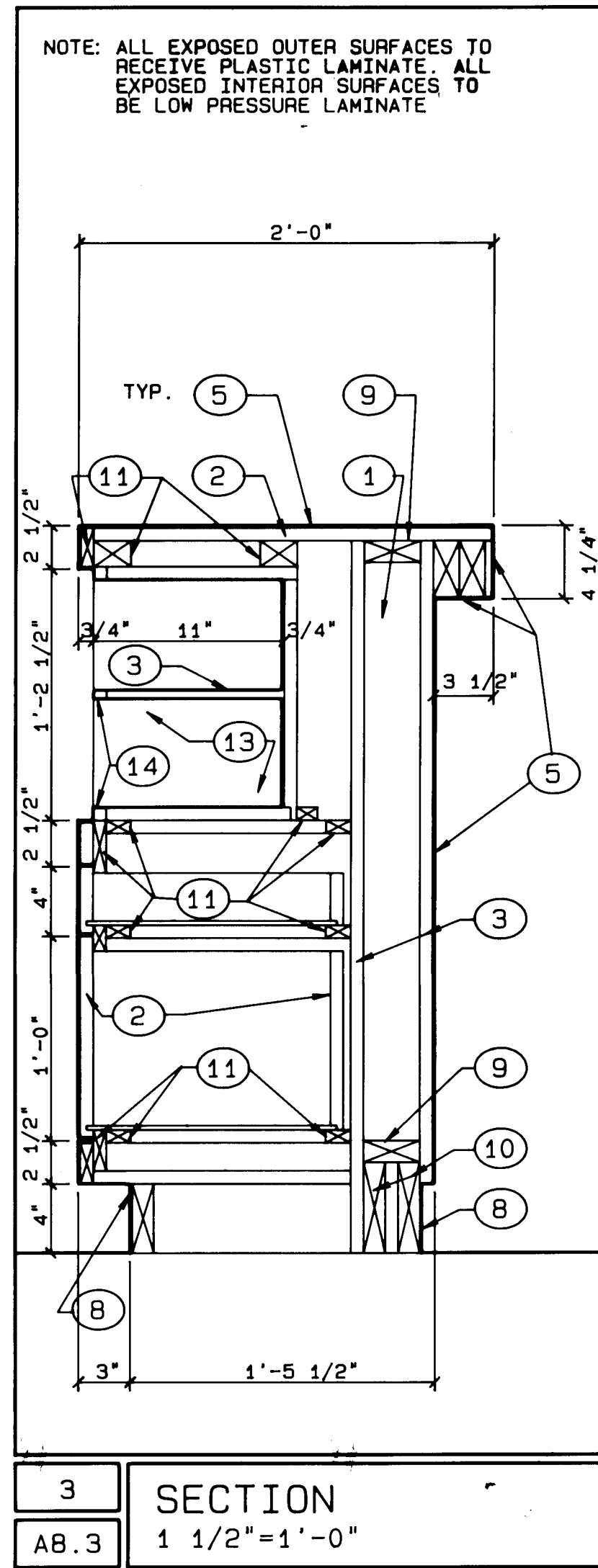
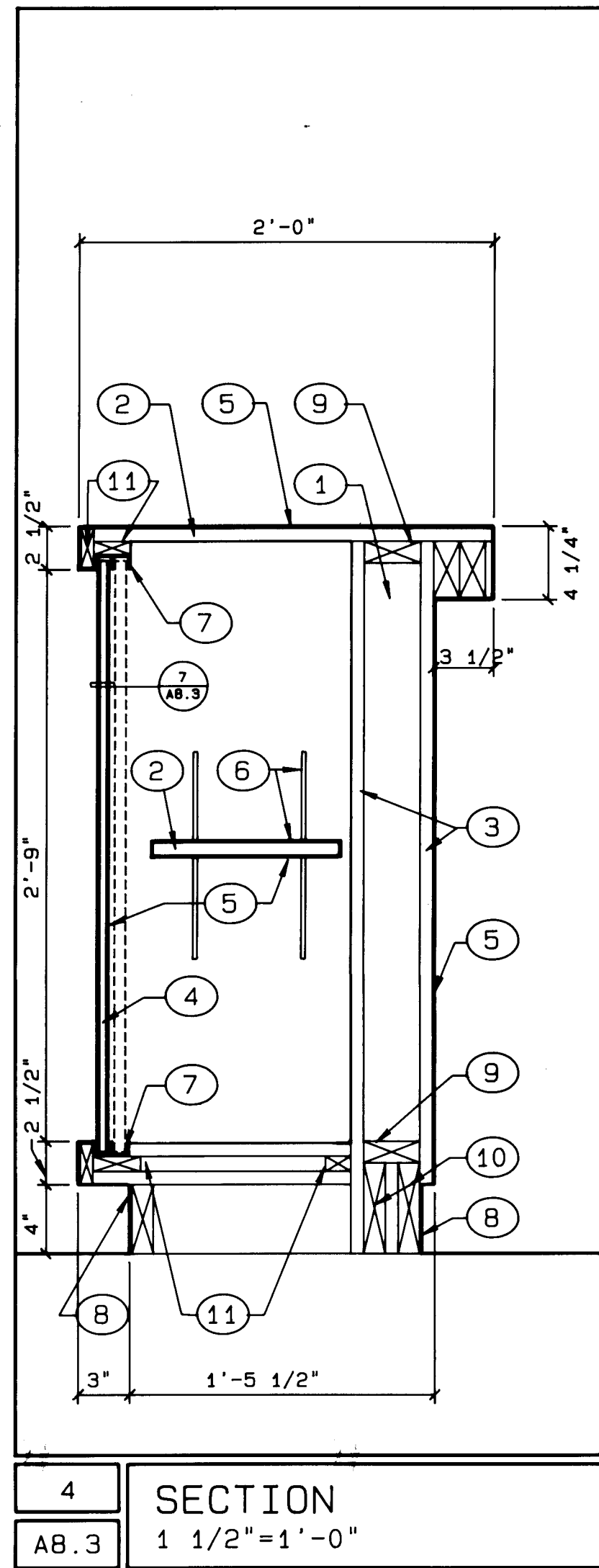
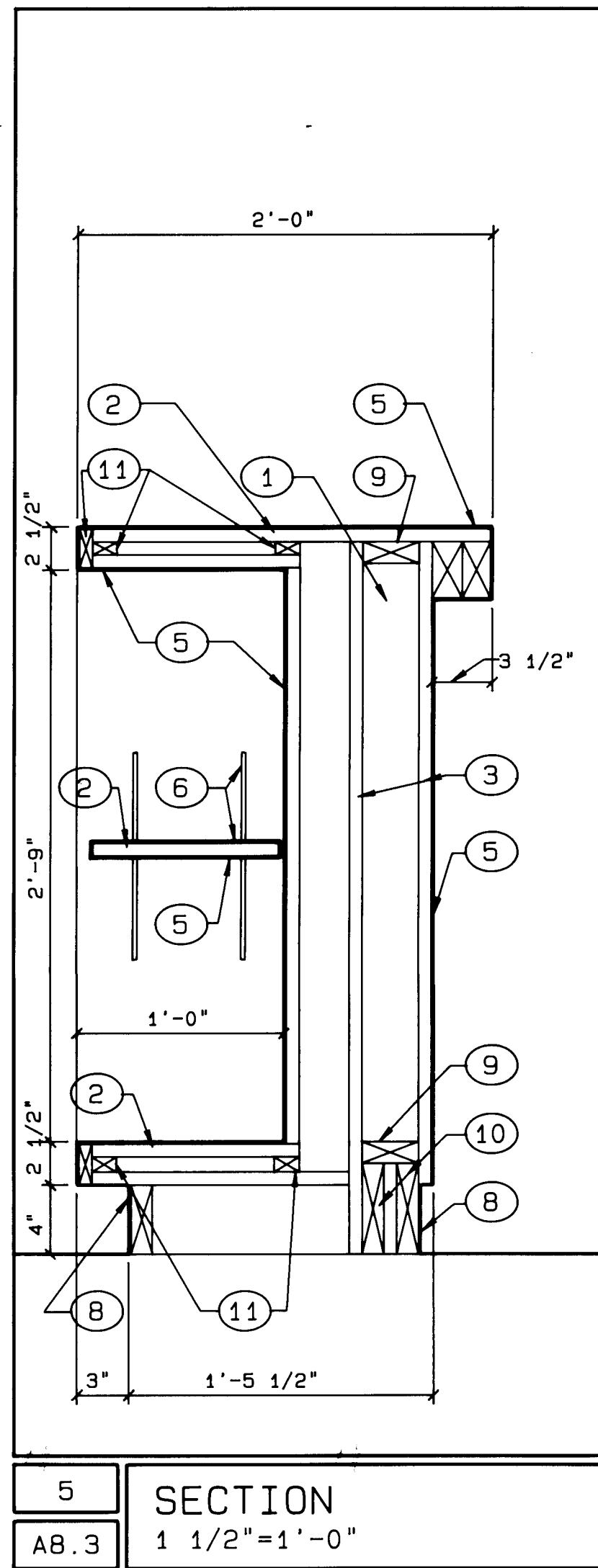
M.I.
SHEET 27 OF 41

26 31 32 30 8 9

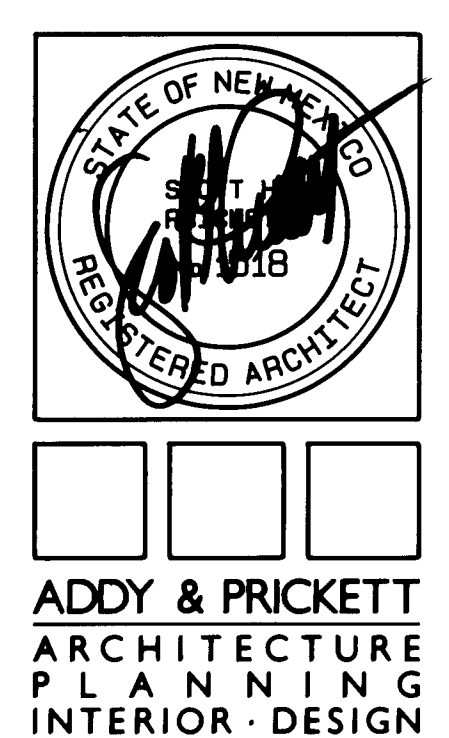



GRADING PLAN
 1"=30'-0"

1	2	3	4	5	6	7	8	9	10	11	12
26	31	32	29	89							



- ### KEYED NOTES
- 1 2 X 4 STUDS @ 15" O.C.
 - 2 3/4" PLYWOOD (TYP.)
 - 3 1/2" PLYWOOD
 - 4 3/8" PLYWOOD
 - 5 PLASTIC LAMINATE
 - 6 ADJ. SHELF W/ADJ. END BRACKETS
 - 7 GUIDE AND TRACK
 - 8 VINYL BASE
 - 9 2 X 4
 - 10 2 X 6
 - 11 WOOD BLOCKING
 - 12 SLIDING DOOR
 - 13 SHT. ACRYLIC DIVIDER (6 1/2" X 11" X 1/4") W/ POLISHED EDGE
 - 14 HARD WOOD EDGE
 - 15 2 X 8



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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

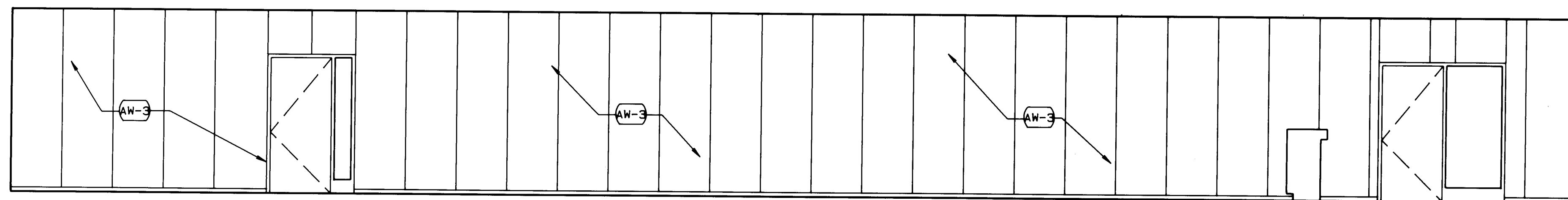
APPROVED *[Signature]* DATE 5/21/87

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

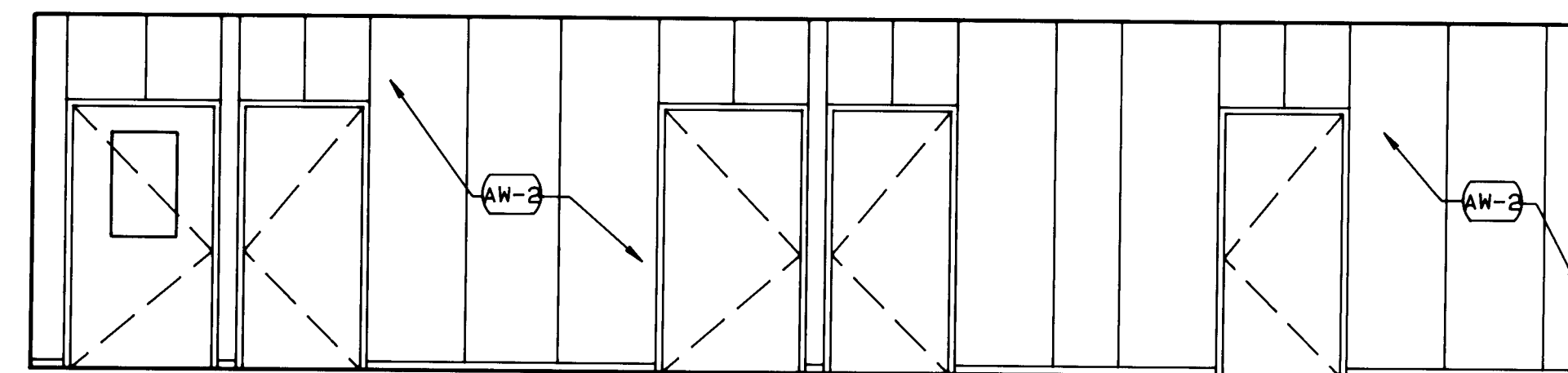
TITLE
CABINET
DETAILS
SHEET

A8.3
SHEET 26 OF 41

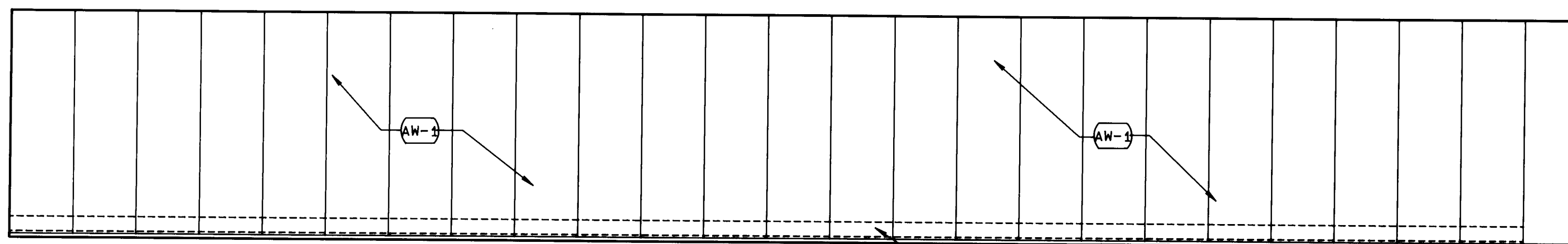
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26 31 32 28 9 7



WEST

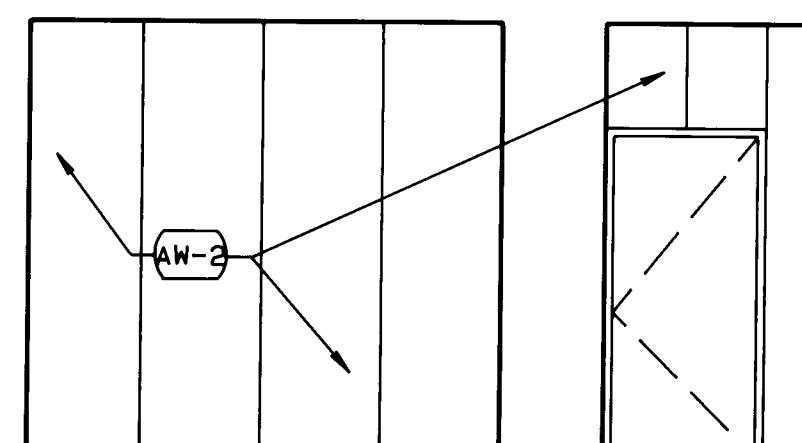


SOUTH

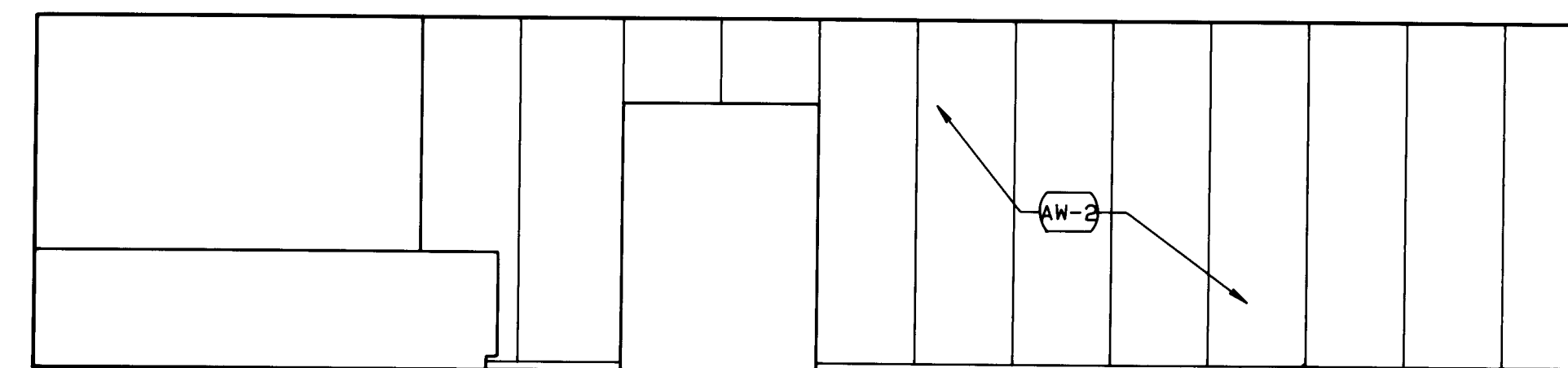


EAST

BASEBOARD RADIATOR

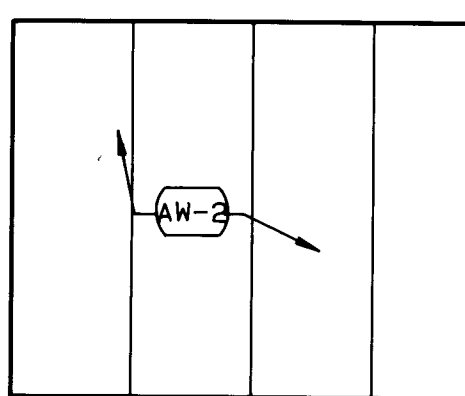


NORTH

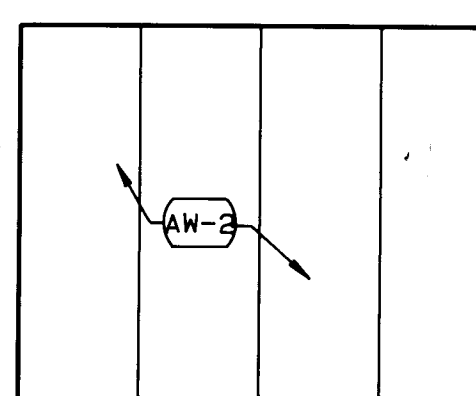


EAST

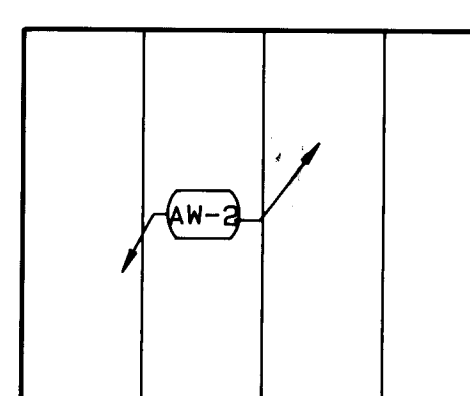
1
AB.2
OPERATIONS ROOM
1/4"=1'-0"



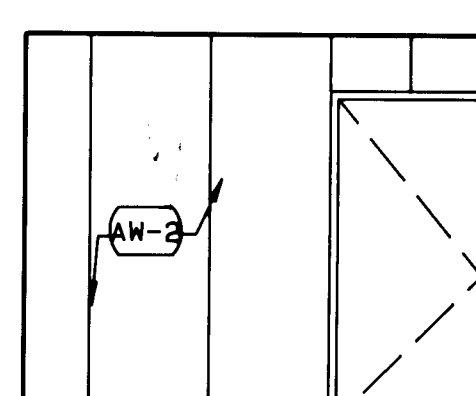
EAST



SOUTH

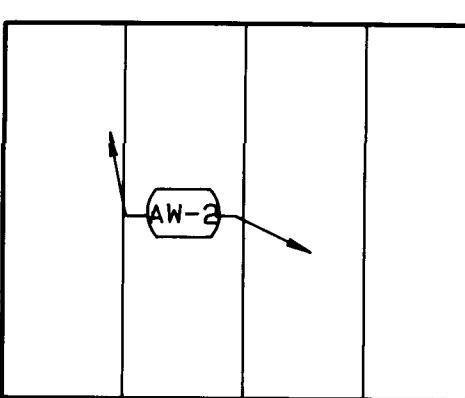


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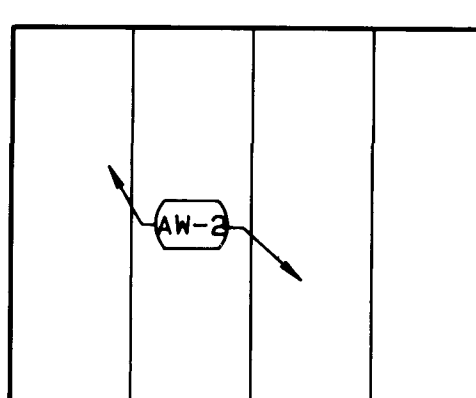


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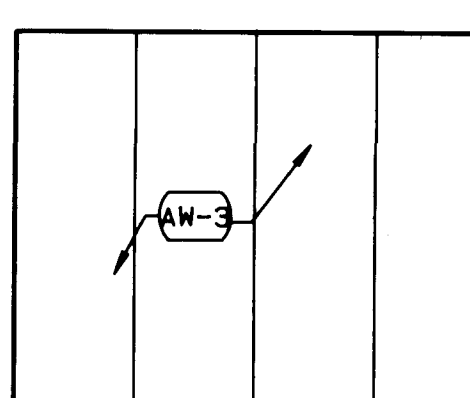
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AB.2
BROADCAST
1/4"=1'-0"



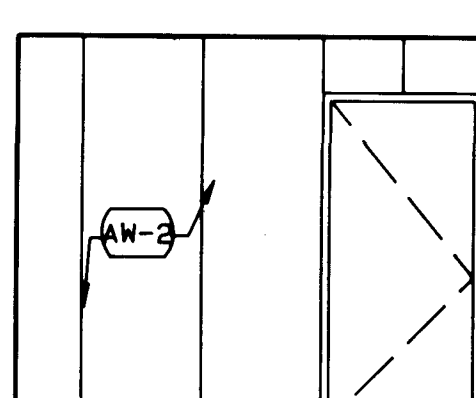
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SOUTH

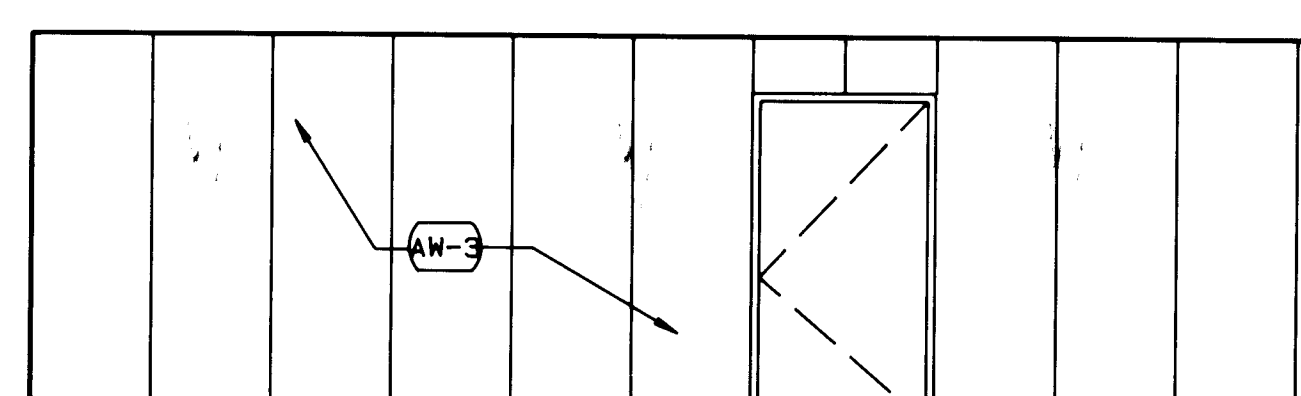


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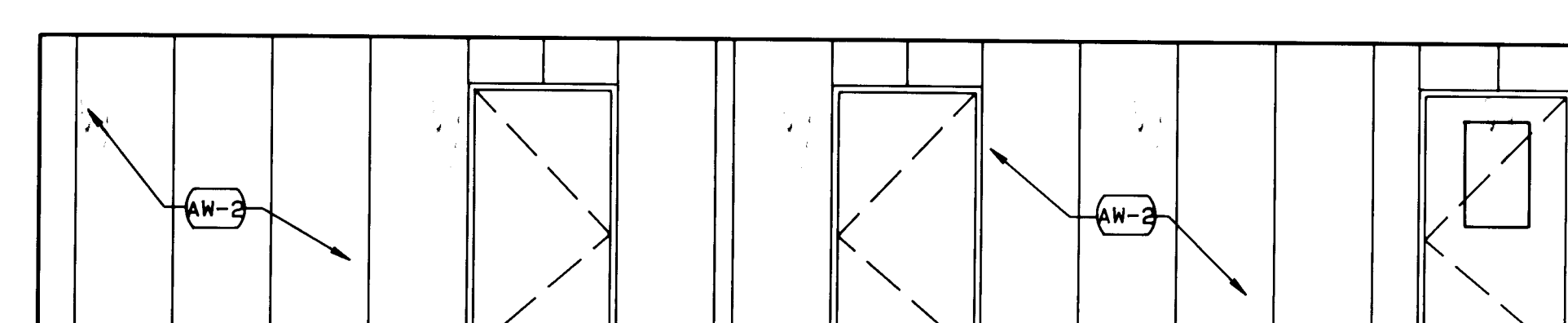


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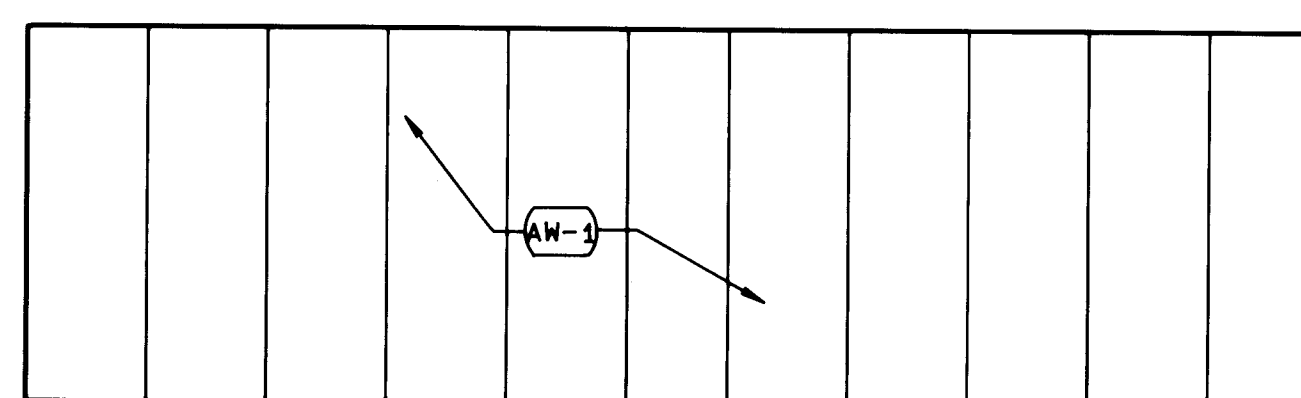
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AB.2
RECORDER
1/4"=1'-0"



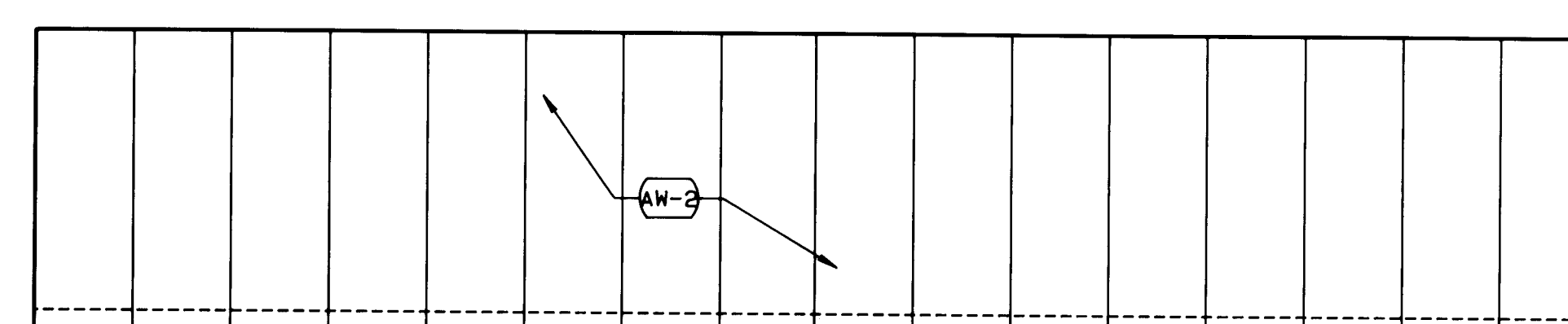
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NORTH



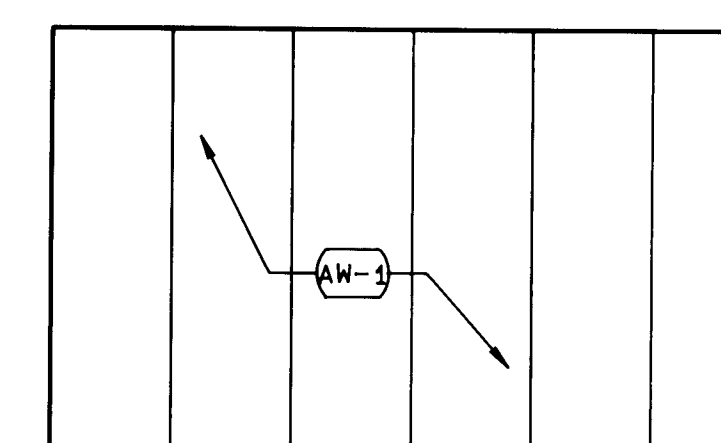
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SOUTH

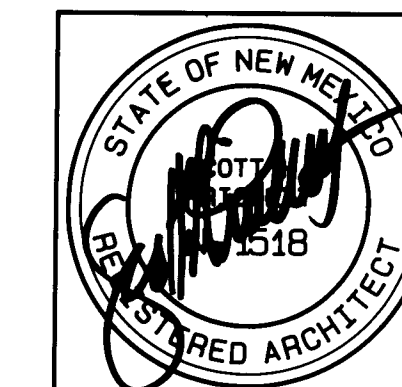
BASEBOARD RADIATOR

2
AB.2
AUTOMATION ROOM
1/4"=1'-0"



5
AB.2
TRAINING LAB
1/4"=1'-0"

26 31322789



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APPROVED DATE
5/21/87

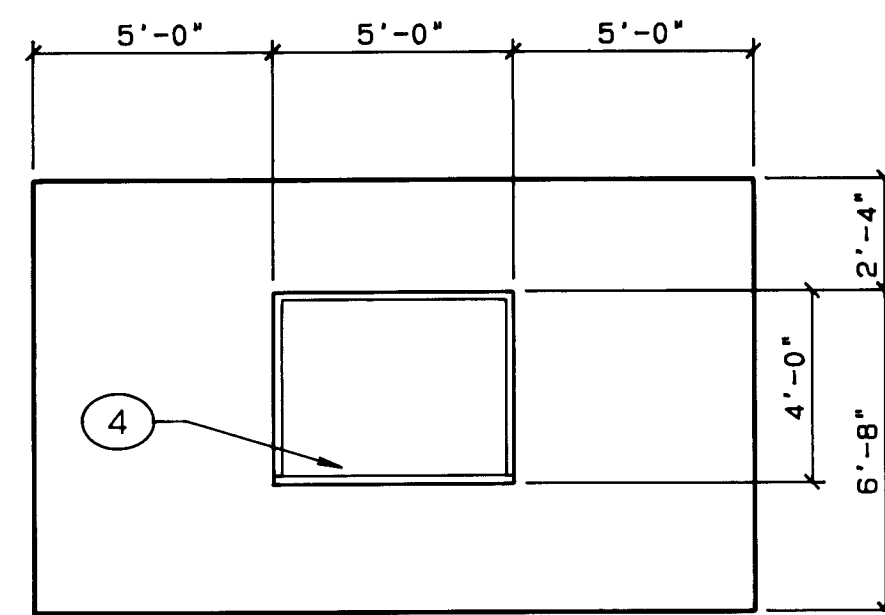
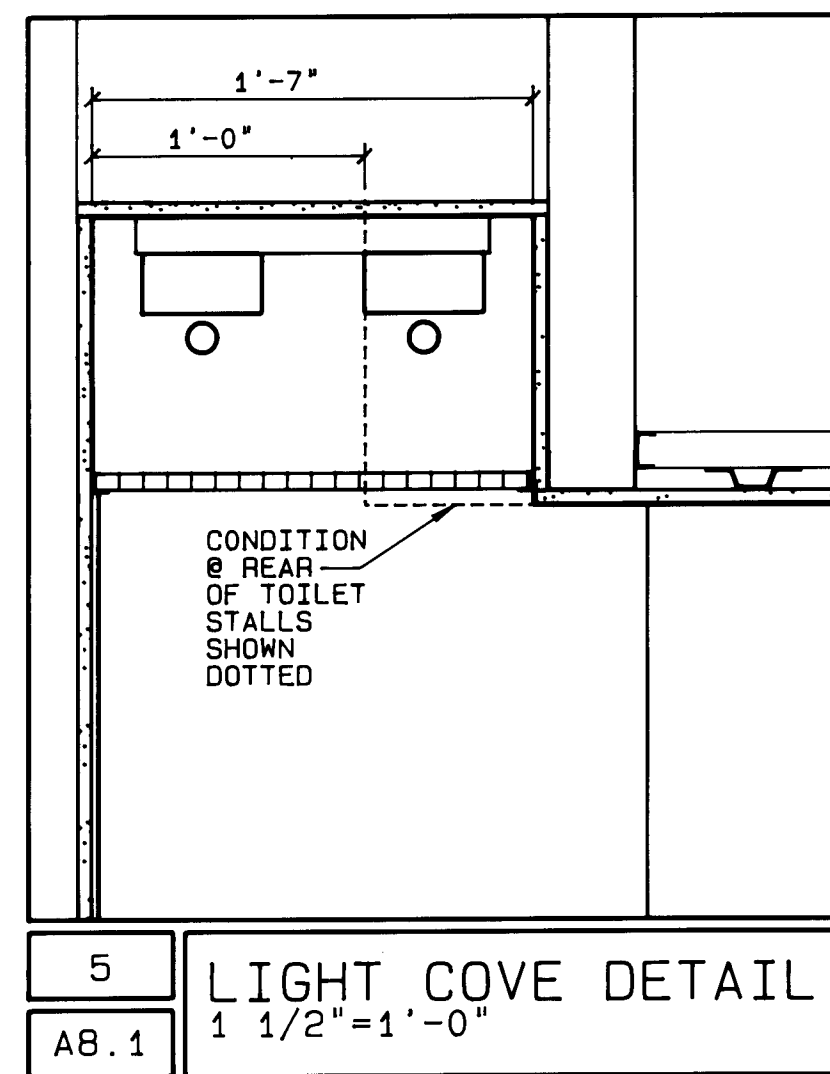
PROJECT: 86007
REVISIONS:

TITLE
INTERIOR
ELEVATIONS

SHEET

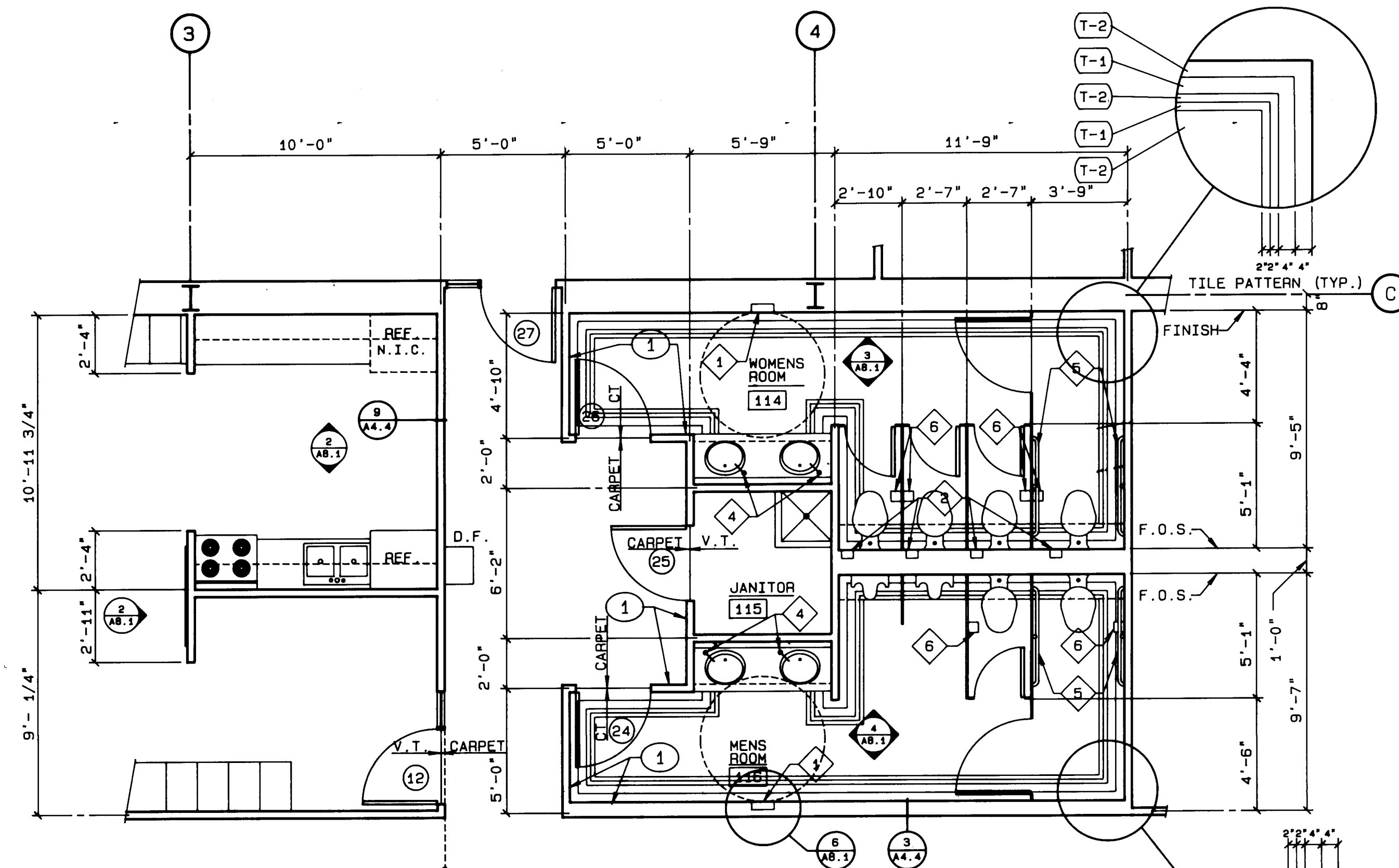
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3/32 SHEET 25 OF 41

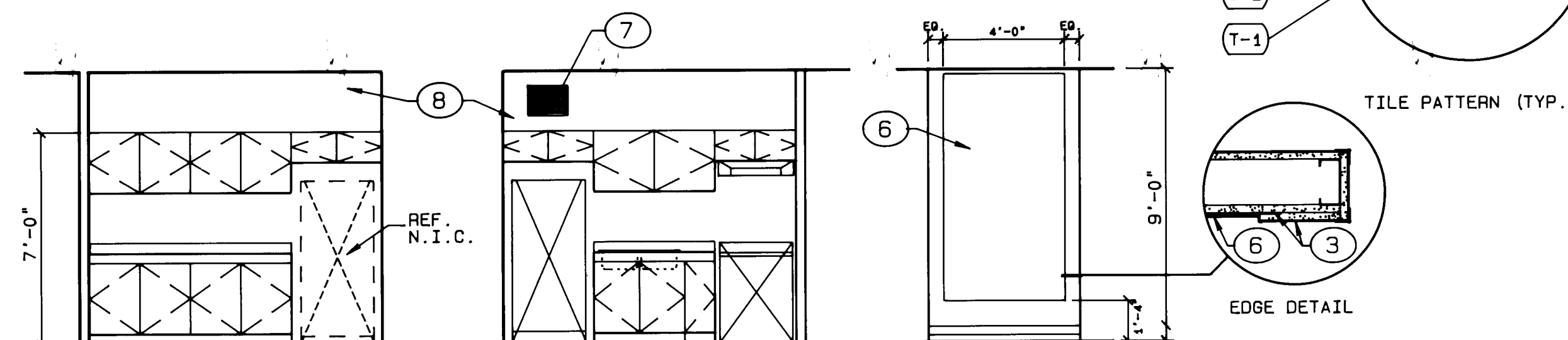


TRAINING ROOM

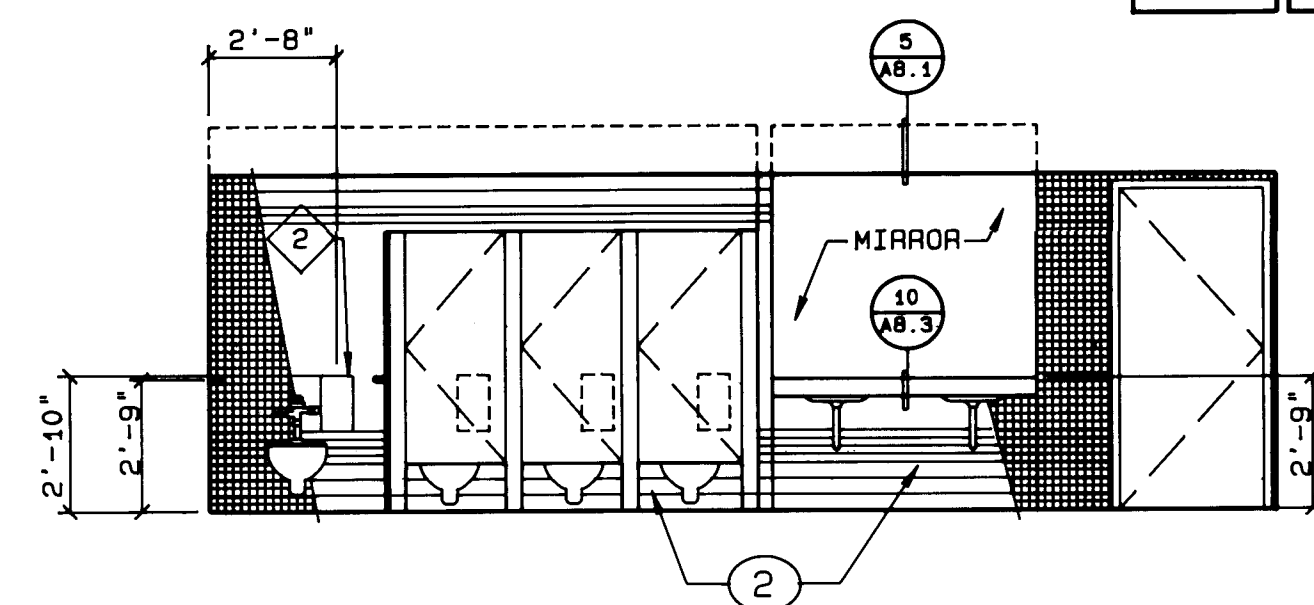
CONFERENCE ROOM



1 . KITCHEN/RESTROOM PLAN
AB.1 1/4"=1'-0"

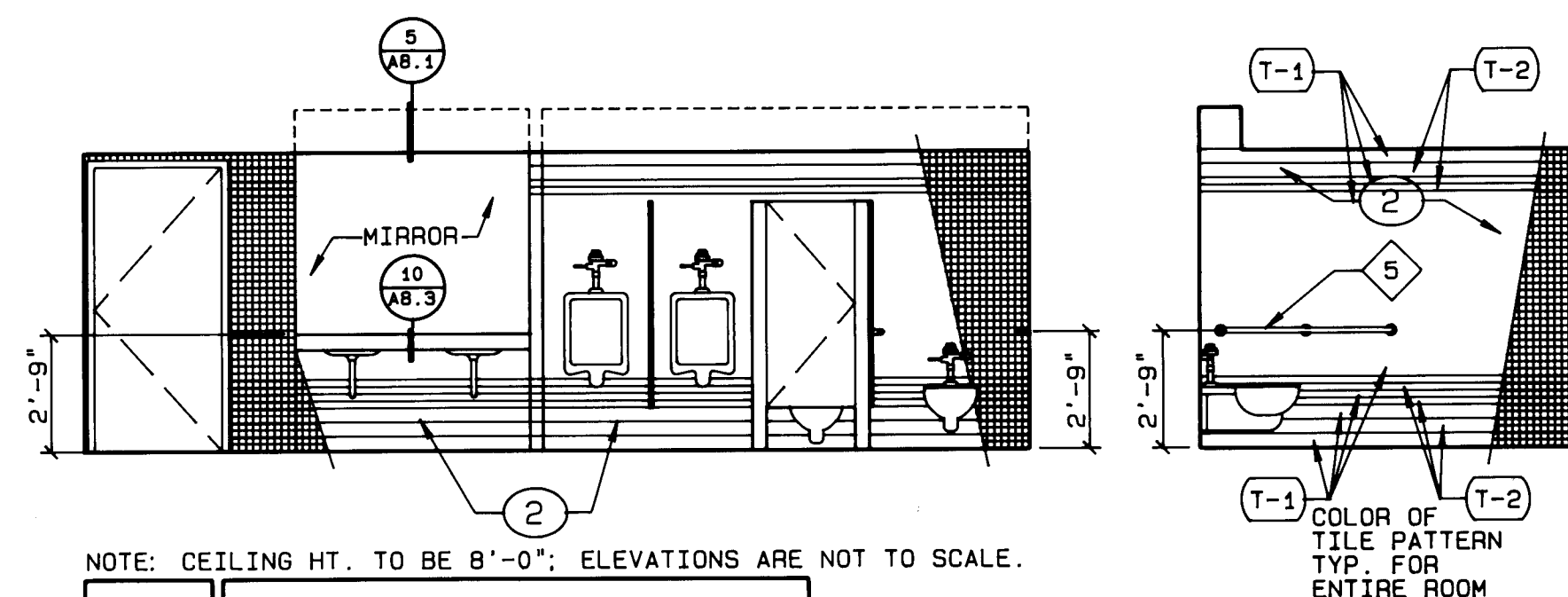


2	KITCHEN
A8.1	1/4"=1'-0"



NOTE: CEILING HT. TO BE 8'-0"; ELEVATIONS ARE NOT TO SCALE.

3	WOMEN'S ROOM
A8.1	1/4"=1'-0"



NOTE: CEILING HT. TO BE 8'-0"; ELEVATIONS ARE NOT TO SCALE.

4	MEN'S ROOM
A8.1	1/4"=1'-0"

- ## KEYED NOTES

- 1 WALLS TO RECEIVE 2" 1/2" SOUND INSULATION BATTS
- 2 CERAMIC TILE
- 3 GYP. BD.
- 4 CHALK BOARD
- 5 PROJECTION SCREEN
- 6 TACK BOARD OF 1/4" CORK
- 7 DRINKING FOUNTAIN CONDENSER UNIT WITH GRILL
- 8 FUR-OUT ABOVE CABINETS
- 9 6" MTL. STUDS @ 16" O. C.

- ## ACCESSORY SCHEDULE

- 1 PAPER TOWEL DISPENSER AND WASTE DISPOSAL UNIT
- 2 FEMININE NAPKIN DISPOSAL
- 3 FEMININE NAPKIN DISPENSER
- 4 LIQUID SOAP DISPENSER
- 5 GRAB BARS
- 6 TOILET TISSUE DISPENSER



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APPROVED San Nito DATE 5/20/07

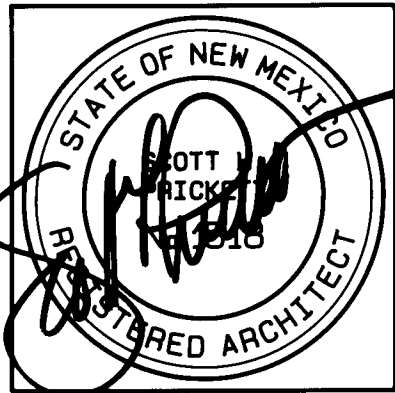
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PROJECT: 86007
REVISIONS:

TITLE
ENLARGED
PLAN &
ELEVATIONS
SHEET

A 8.1

KEYED NOTES

- 1 LAY-IN SUSPENDED CEILING
- 2 (NOT USED)
- 3 SUSPENDED CEILING W/ 1/2" GYP. BD.
- 4 1-HR. CEILING W/ 5/8" TYPE X GYP. BD. @ TOP & BOTTOM OF CEILING JOISTS
- 5 STARTING EDGE FOR CEILING GRID



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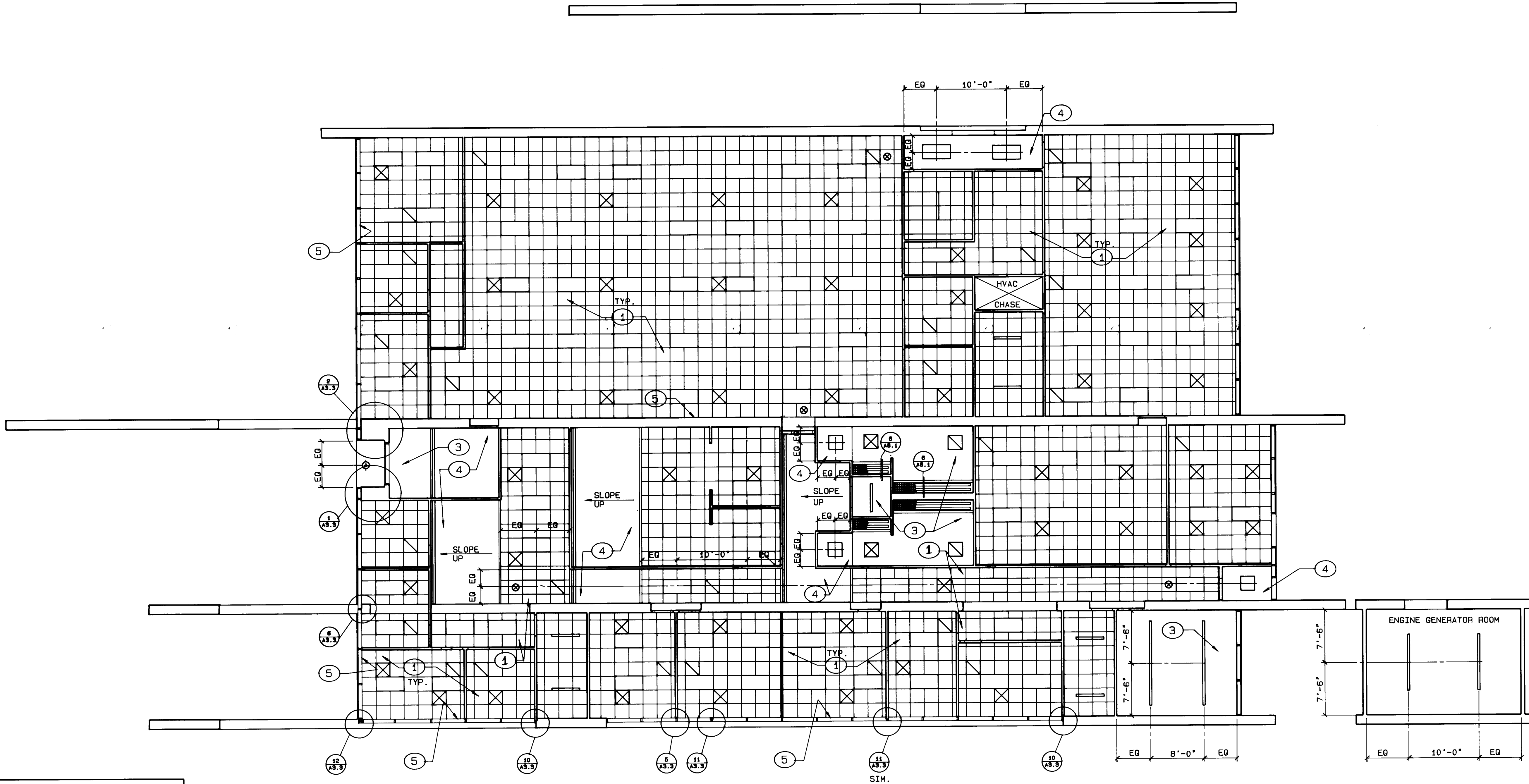
APPROVED *Don Hardy* 5/21/87 DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
REFLECTED
CEILING PLAN
SHEET

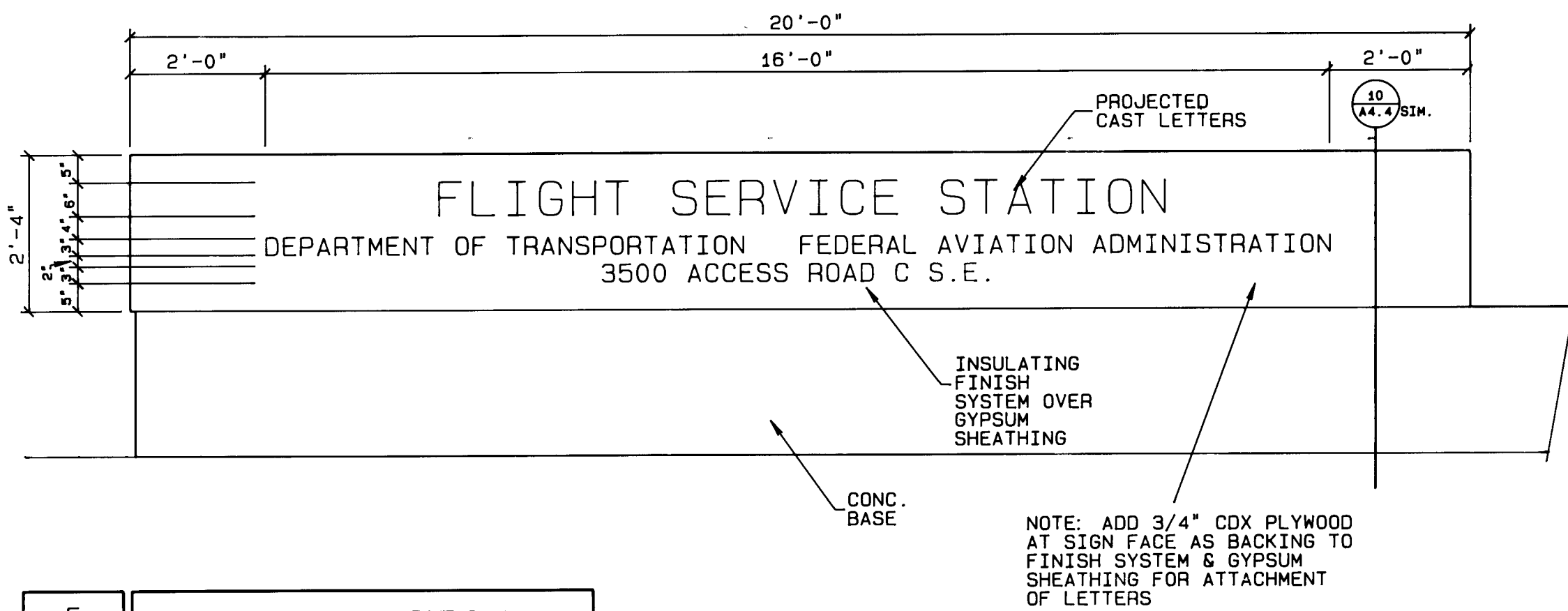
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SHEET 23 OF 41

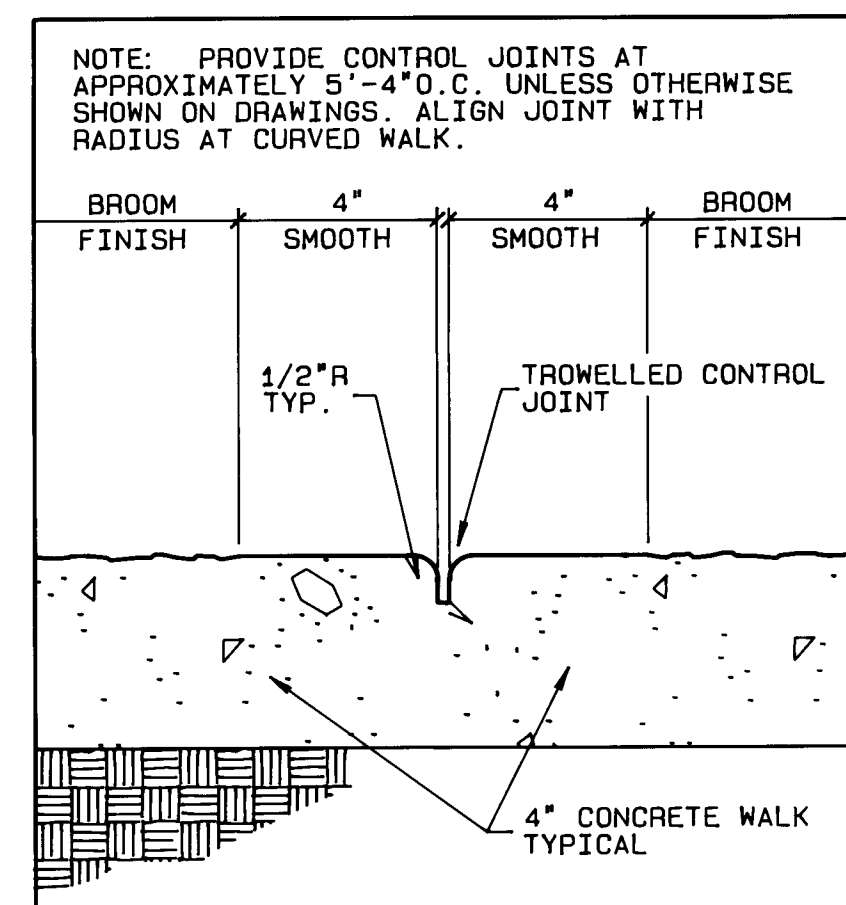


REFLECTED CEILING PLAN
1/8"=1'-0"

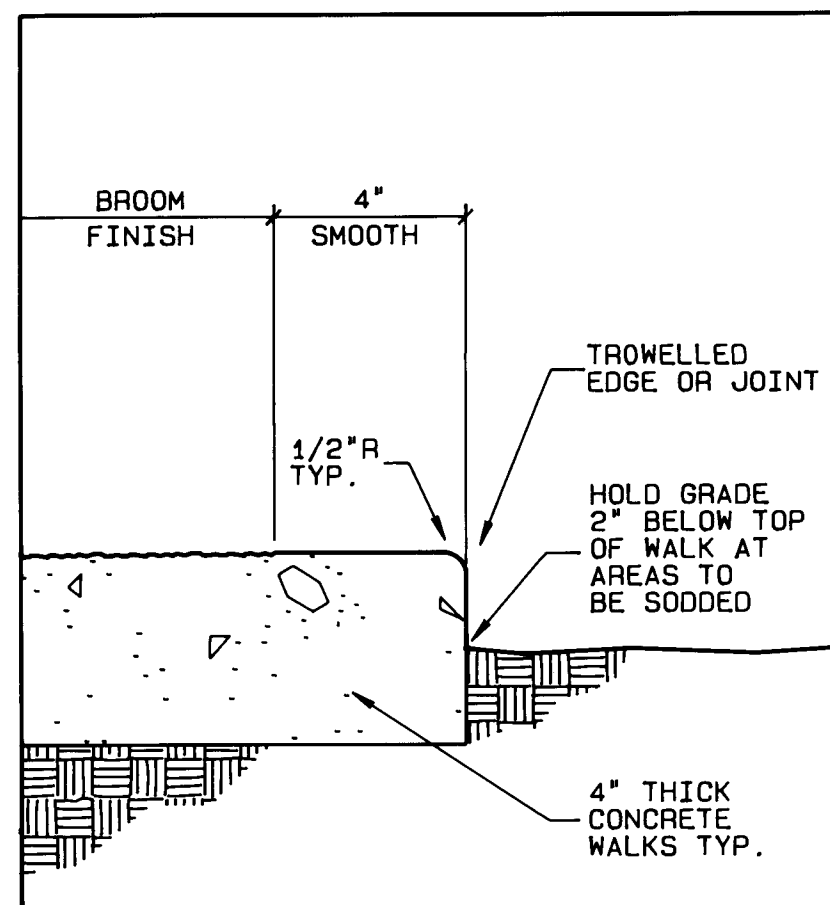
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26 31 32 25 8 9



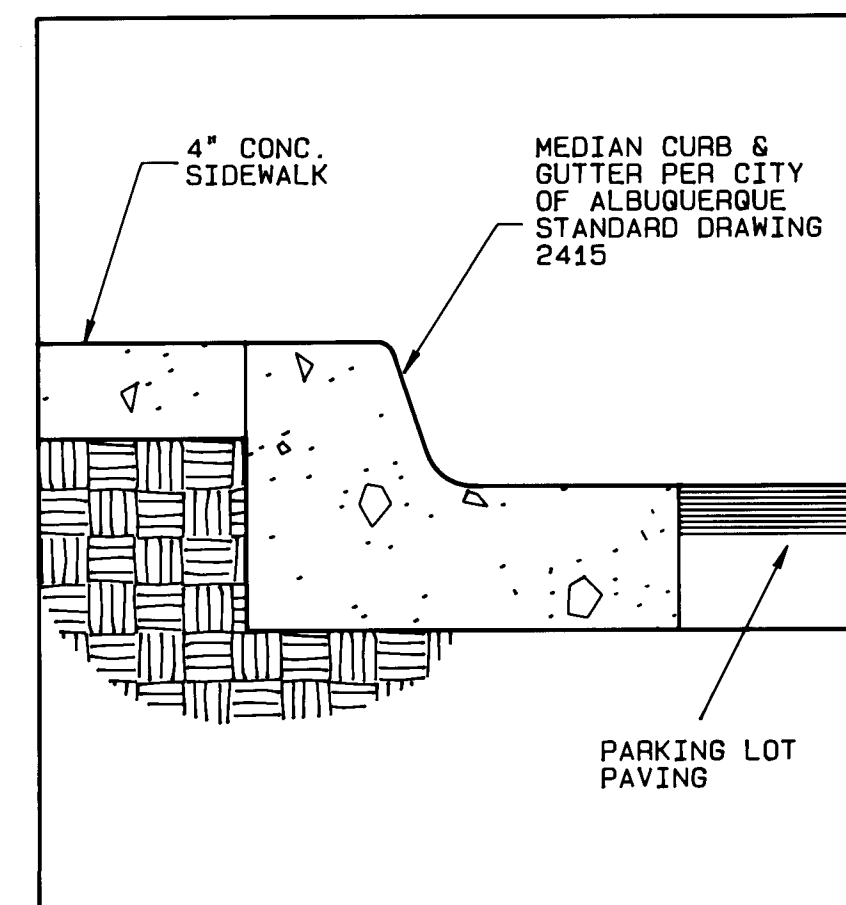
5 SIGN ELEVATION
A5.1 1/2"=1'-0"



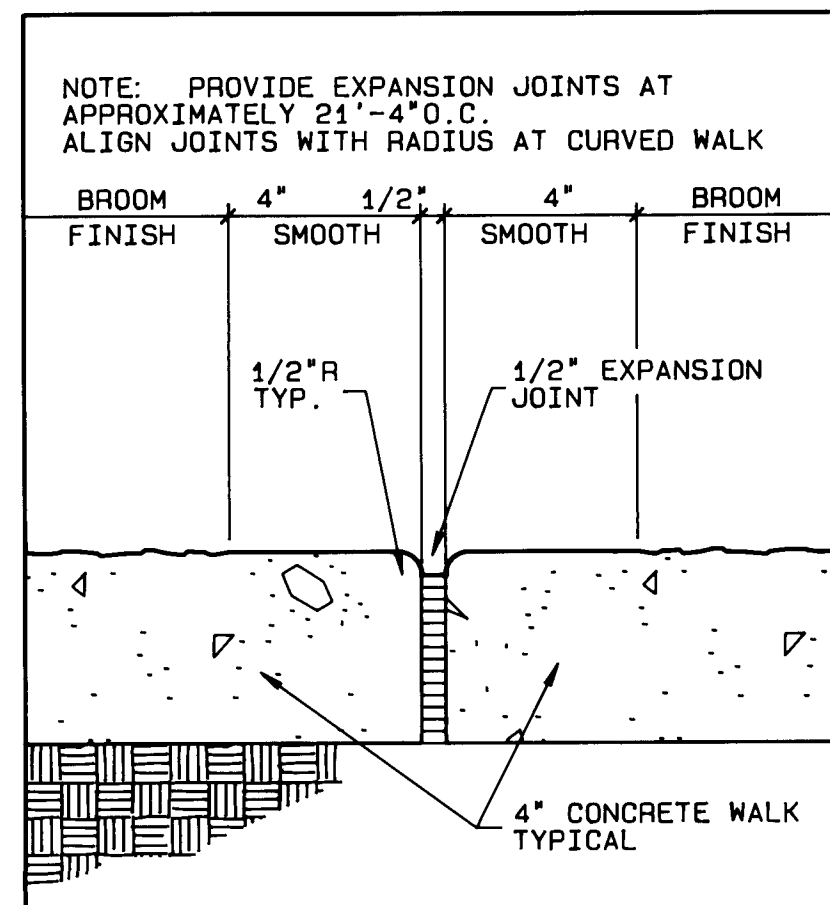
7 TYP. CONTROL JOINT
A5.1 3"=1'-0"



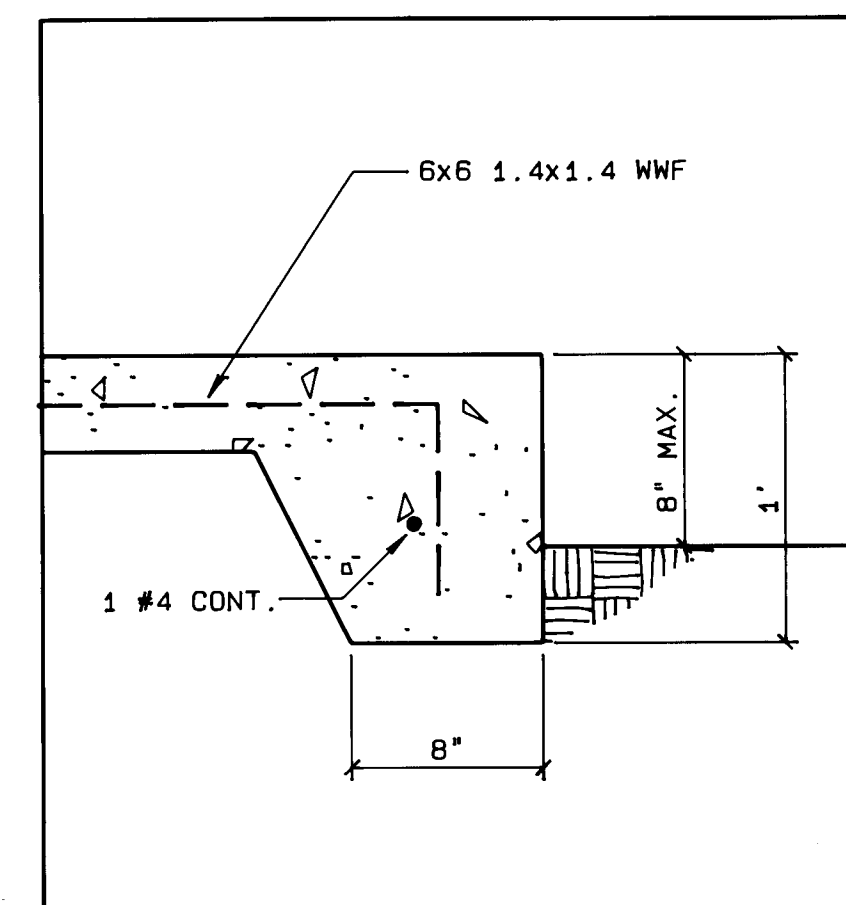
6 TYP. WALK EDGE DTL
A5.1 3"=1'-0"



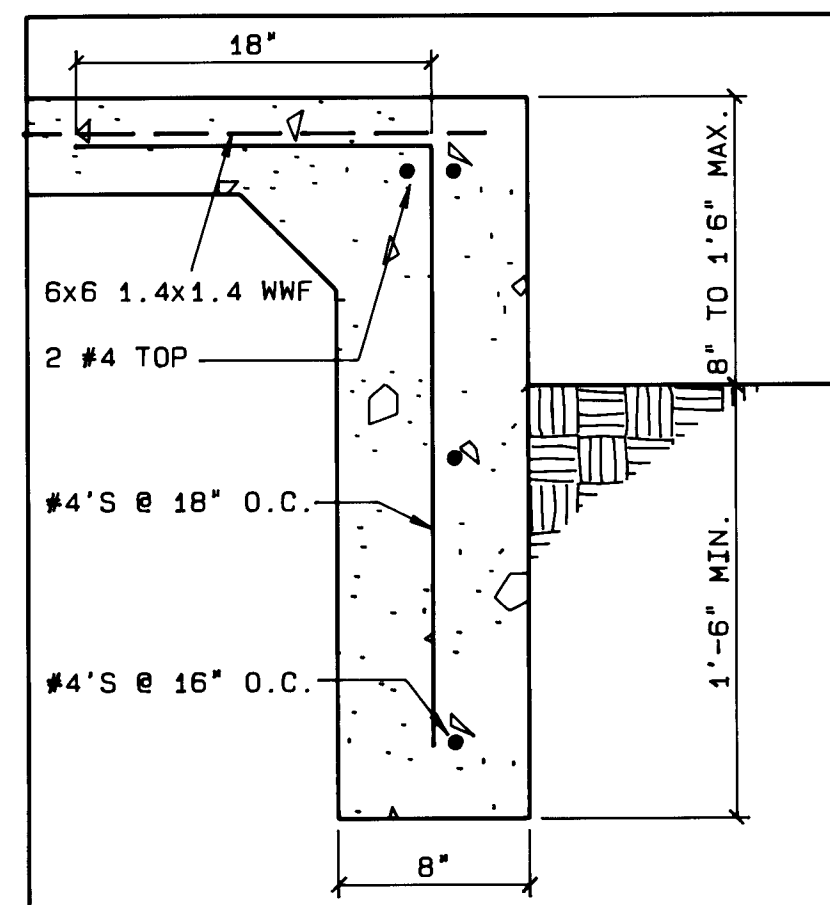
9 SIDEWALK CURB
A5.1 1 1/2"=1'-0"



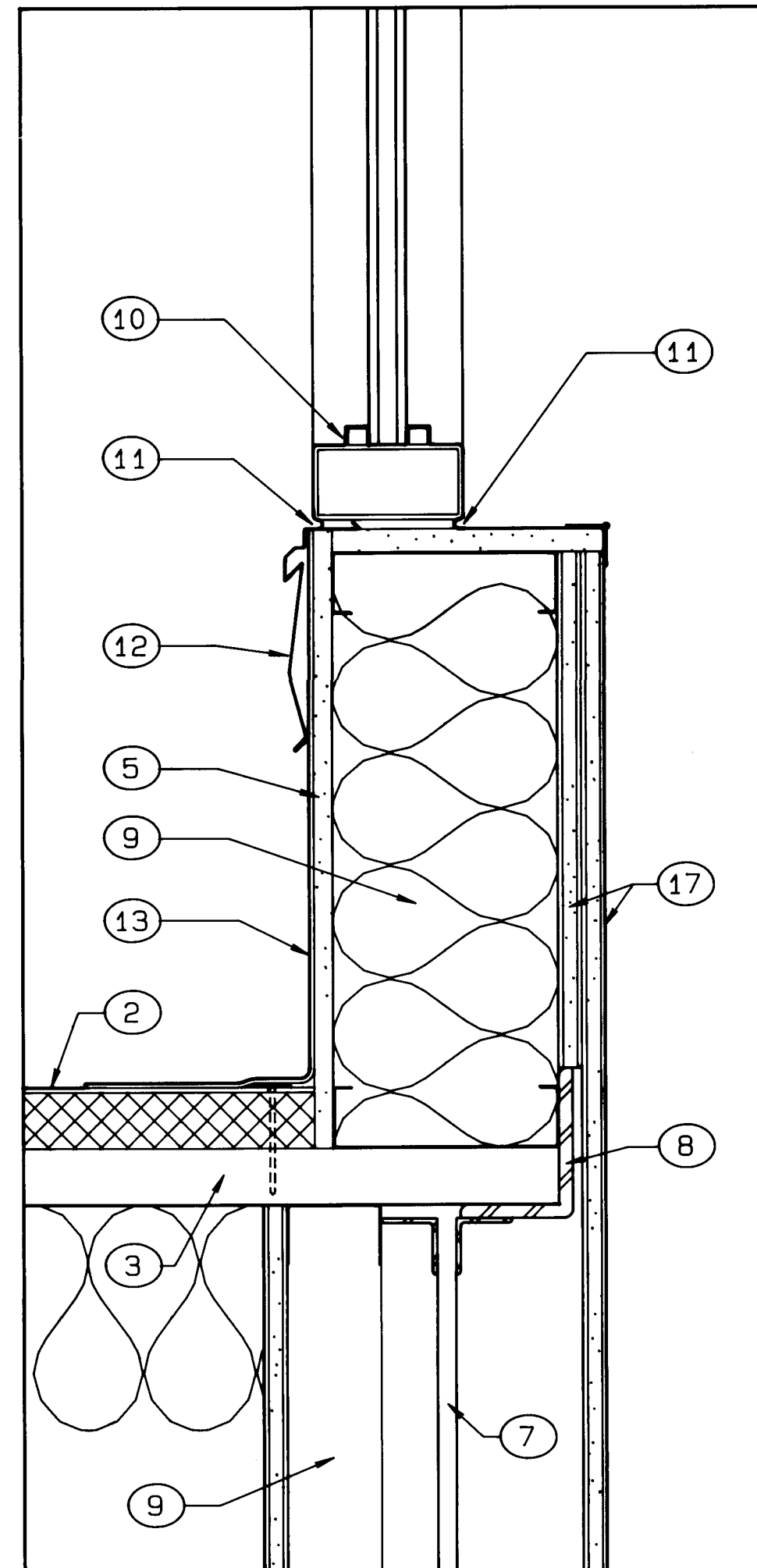
8 TYP. EXPAN. JOINT
A5.1 3"=1'-0"



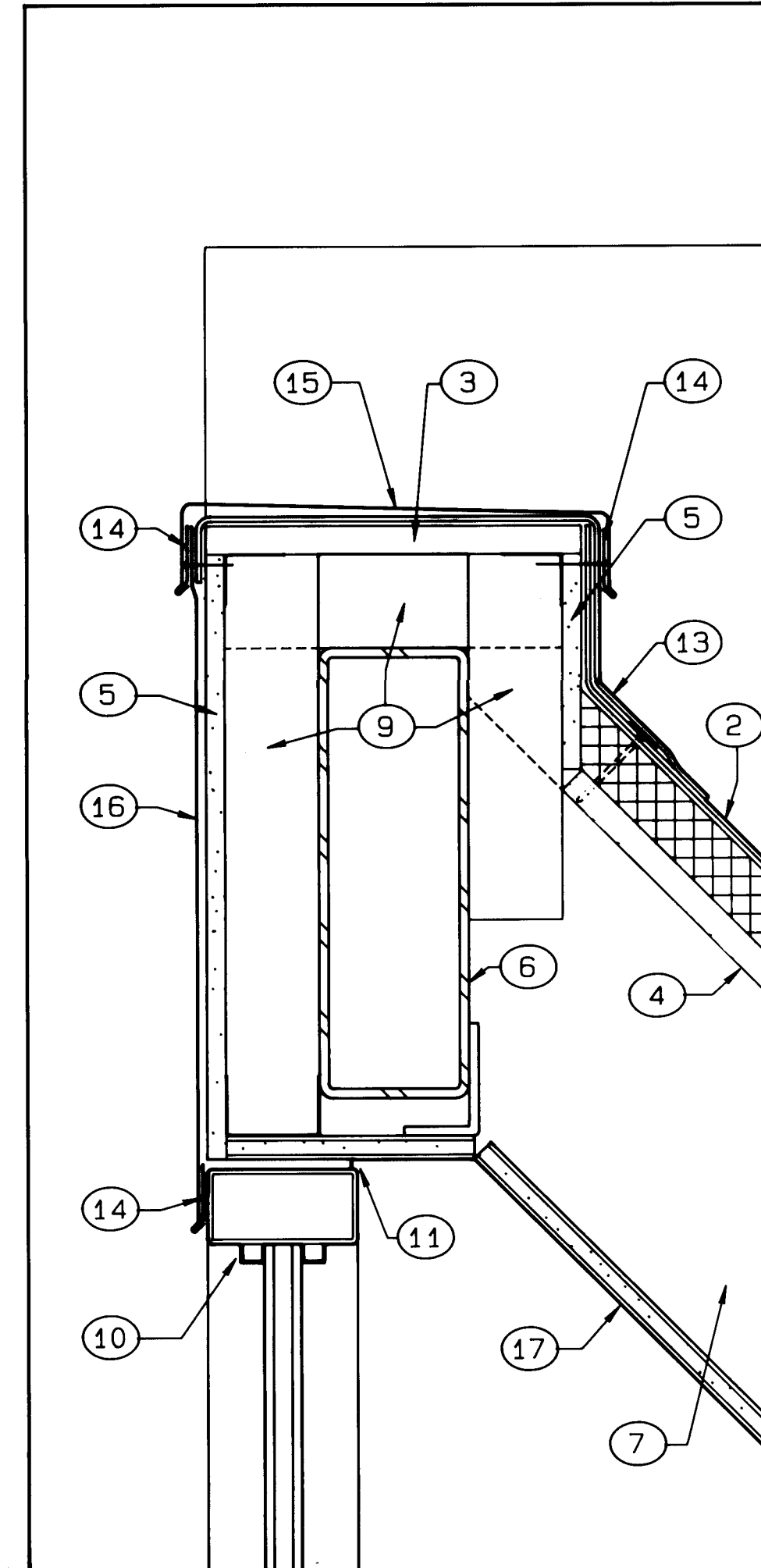
11 TURN-DOWN @ RAMP
A5.1 1 1/2"=1'-0"



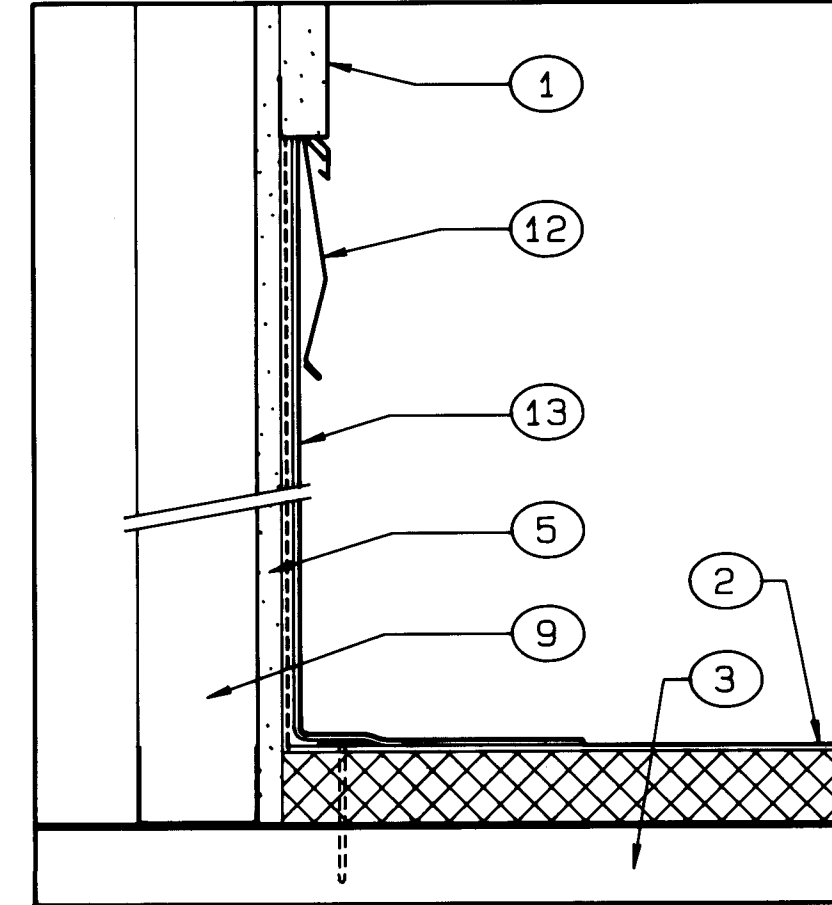
10 TURN-DOWN @ RAMP
A5.1 1 1/2"=1'-0"



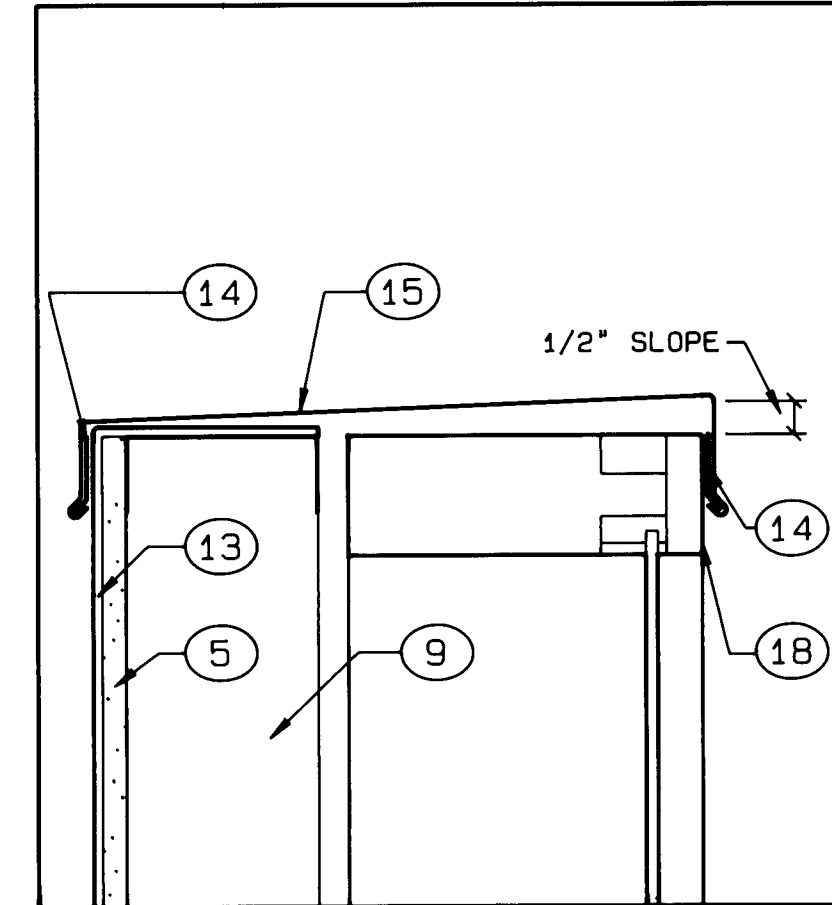
4 FLASHING DETAIL
A5.1 3"=1'-0"



3 FLASHING DETAIL
A5.1 3"=1'-0"

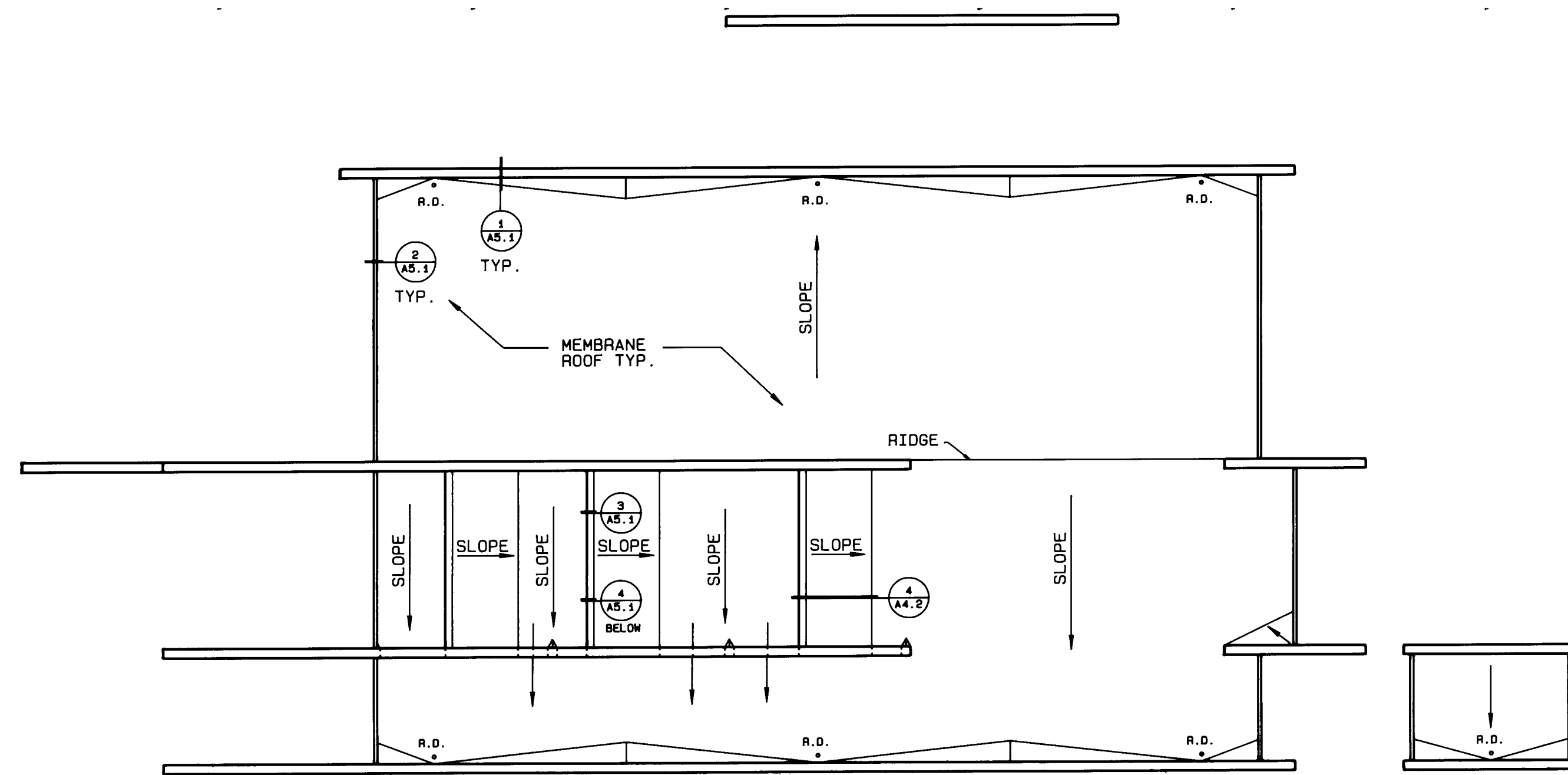


1 TYP. FLASHING DTL.
A5.1 3"=1'-0"



2 FLASHING CAP DTL.
A5.1 3"=1'-0"

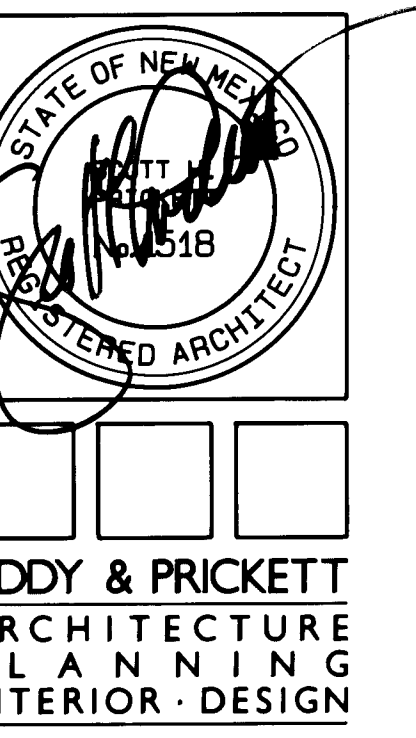
ROOF PLAN
1/16"=1'-0"



KEYED NOTES

- 1" FINISH INSULATION SYSTEM OVER 1/2" GYPSUM SHEATHING
- MEMBRANE ROOFING OVER RIGID INSULATION
- STEEL DECK
- 1" STEEL DECK
- 1/2" GYPSUM SHEATHING
- STEEL TUBE BEAM
- JOIST
- STEEL ANGLE
- METAL STUDS
- HOLLOW METAL
- SEALANT
- METAL FLASHING & COUNTER-FLASHING
- MEMBRANE FLASHING IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS
- CLEAT
- SHEET METAL CAP
- 18 GA. SHEET METAL FASCIA
- 5/8" GYP. BD.
- ALUMINUM FRAMING SYSTEM

1 2 3 4 5 6 7 8 9 10 11 12
26 3 1 3 2 2 4 9



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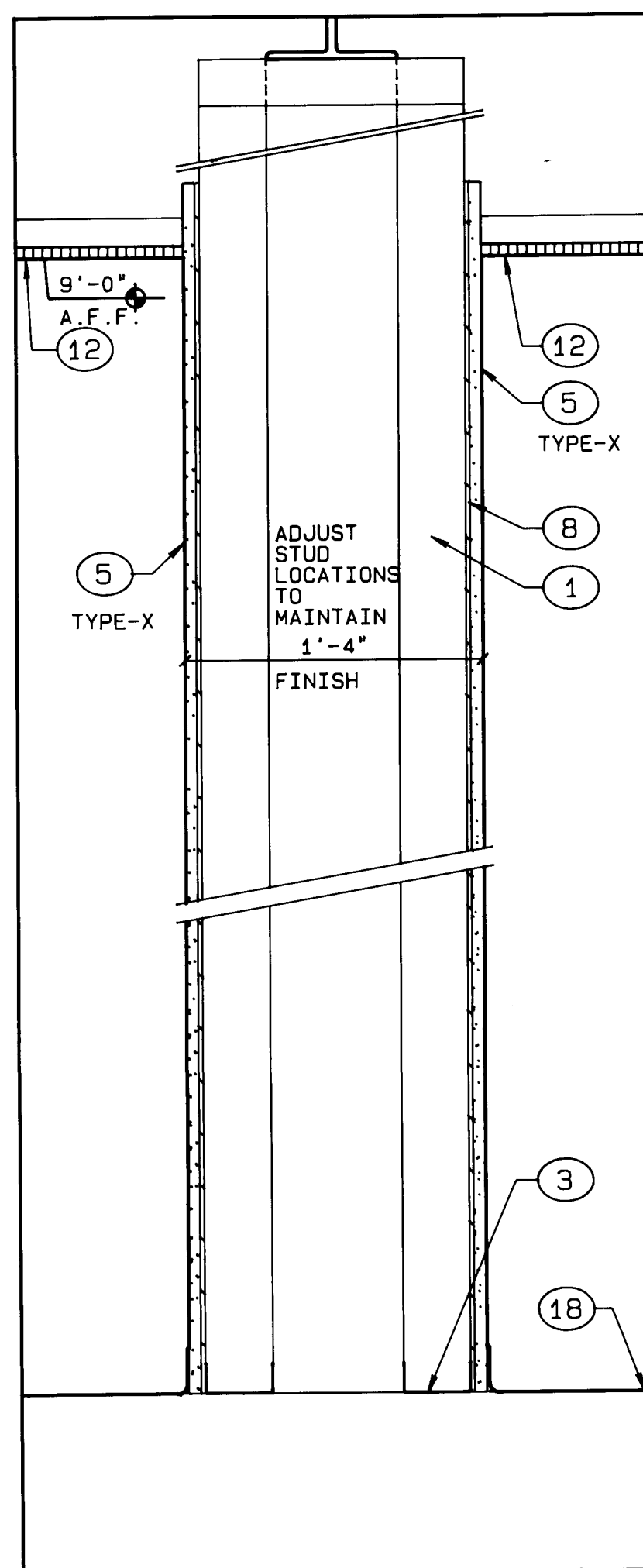
FLIGHT SERVICE STATION BUILDING

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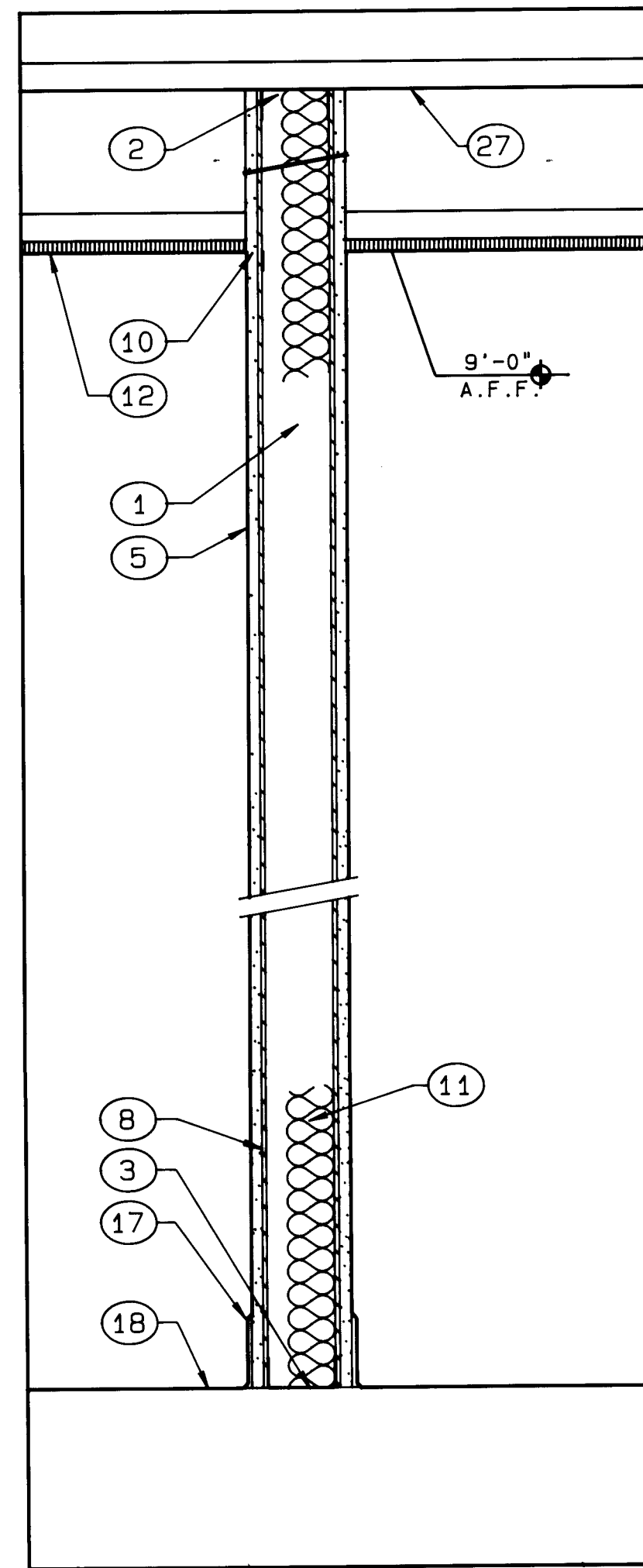
APPROVED DATE 5/21/87

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

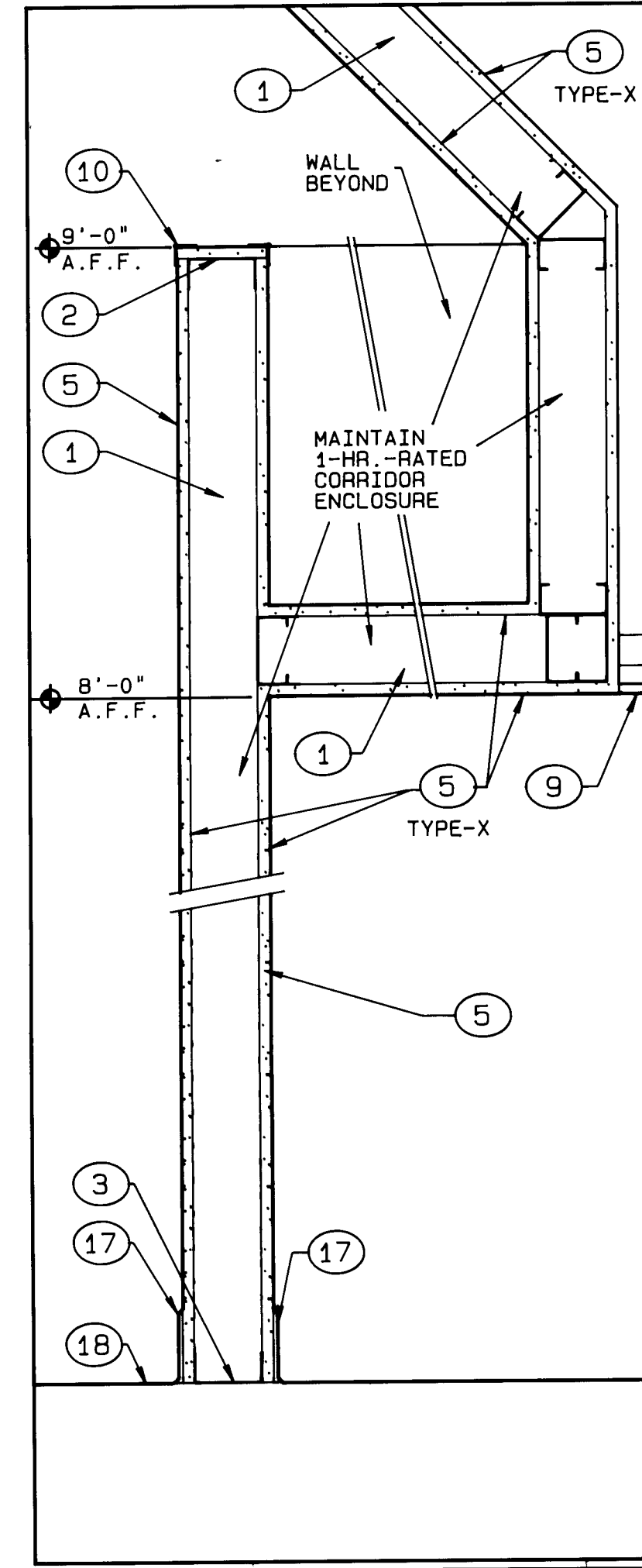
TITLE
ROOF PLAN
SHEET
A5.1
SHEET 22 OF 41



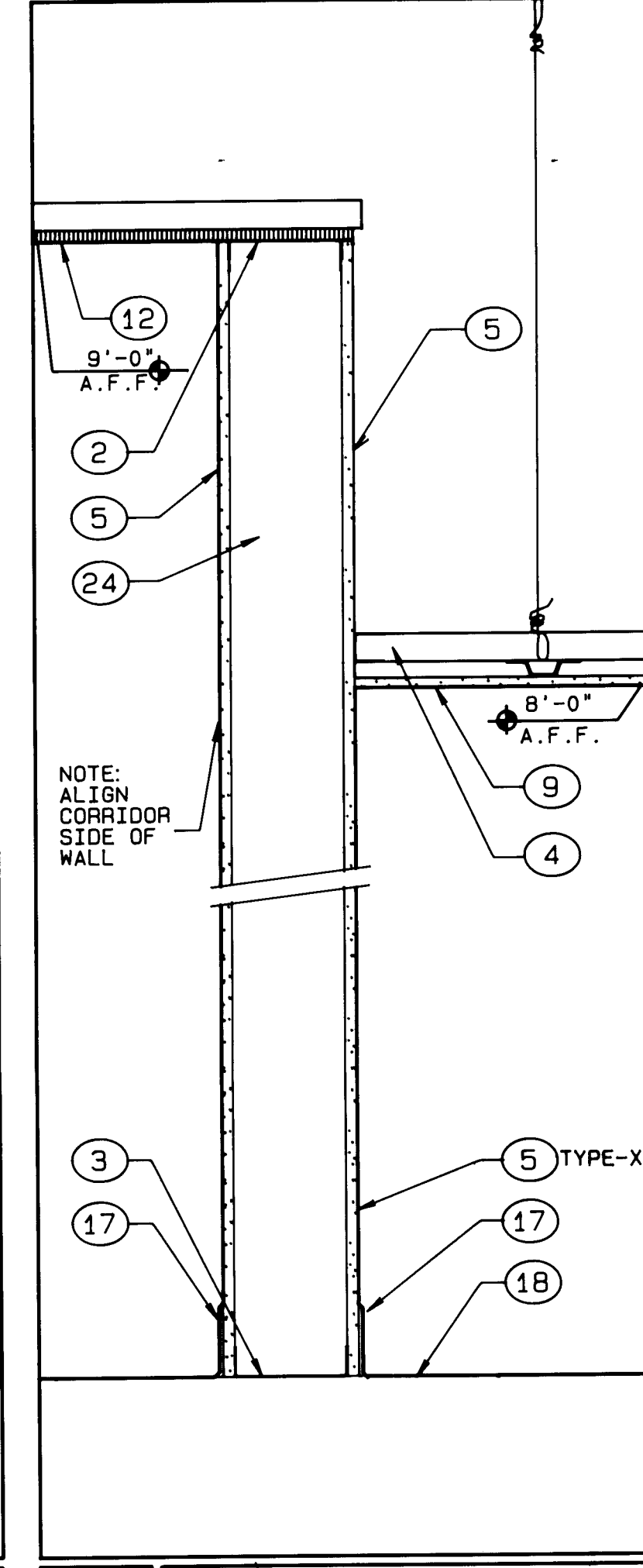
6 PARTITION SECTION
1 1/2"=1'-0"



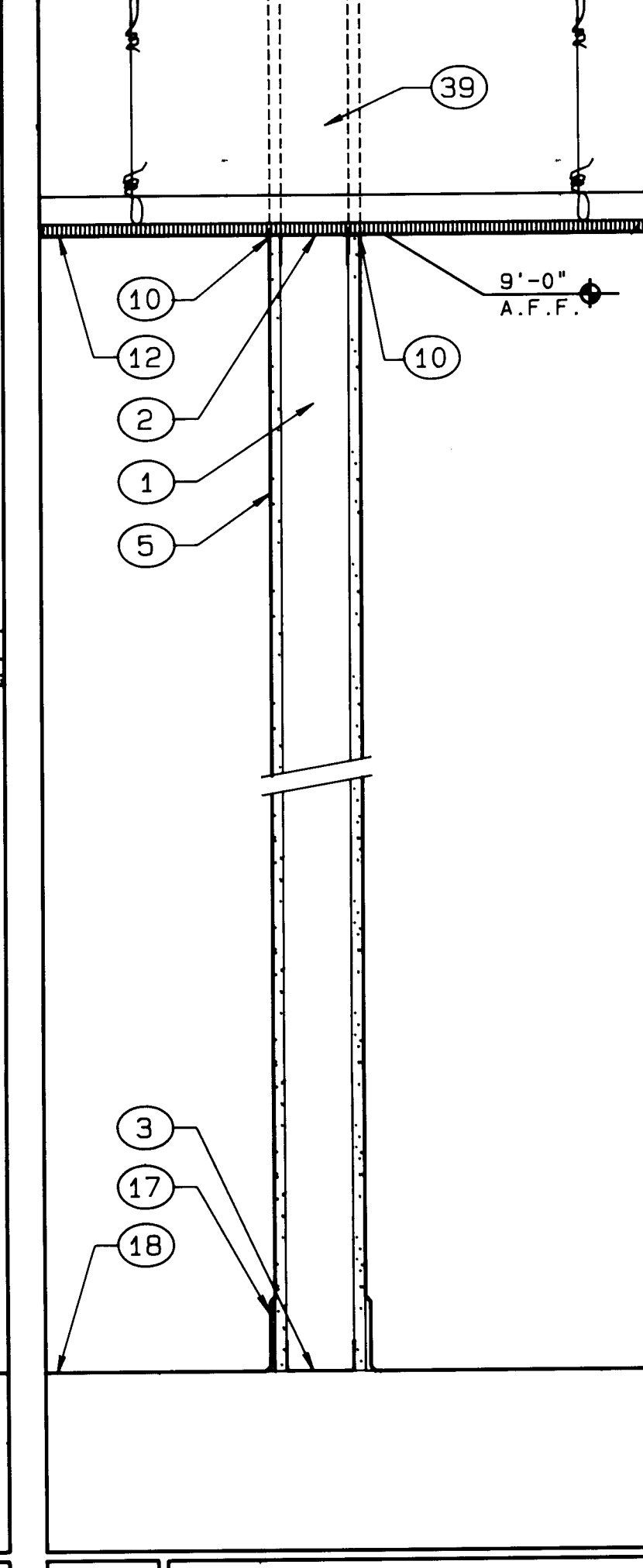
5 PARTITION SECTION
1 1/2"=1'-0"



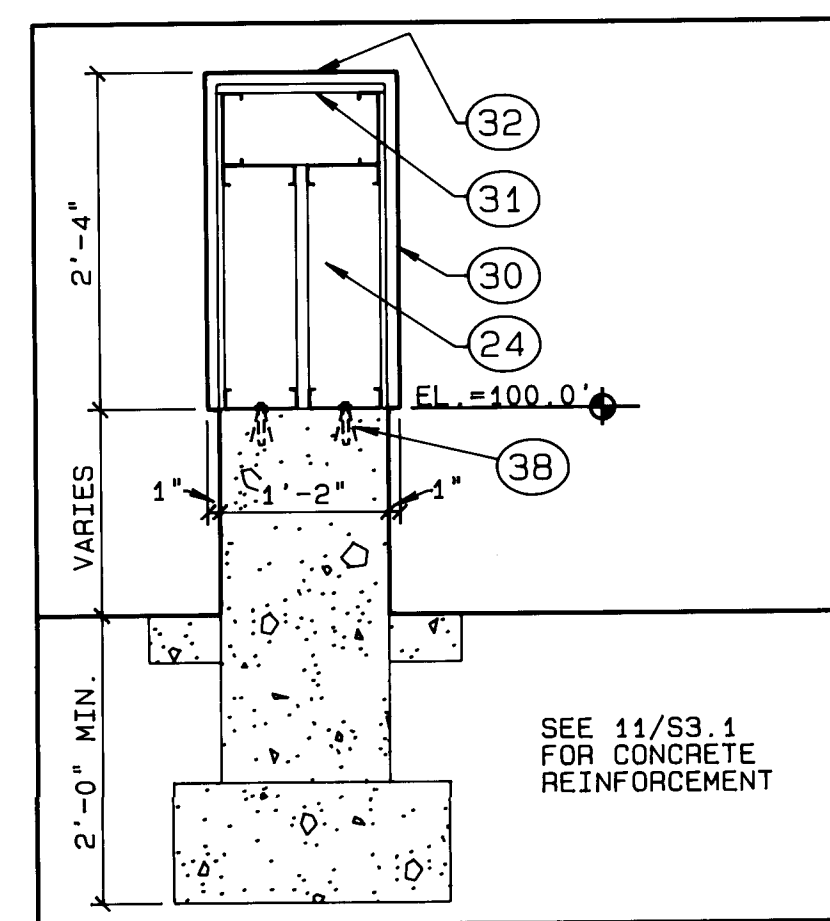
4 PARTITION SECTION
1 1/2"=1'-0"



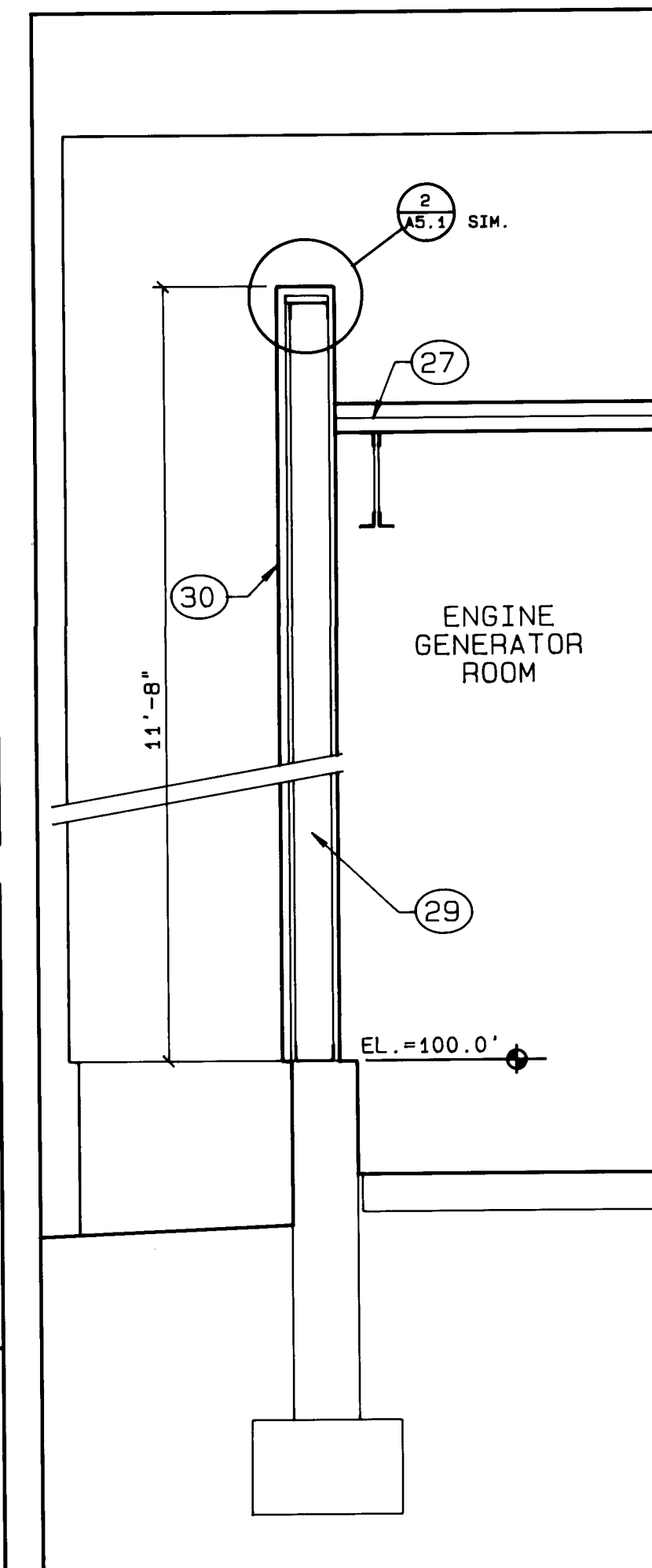
3 PARTITION SECTION
1 1/2"=1'-0"



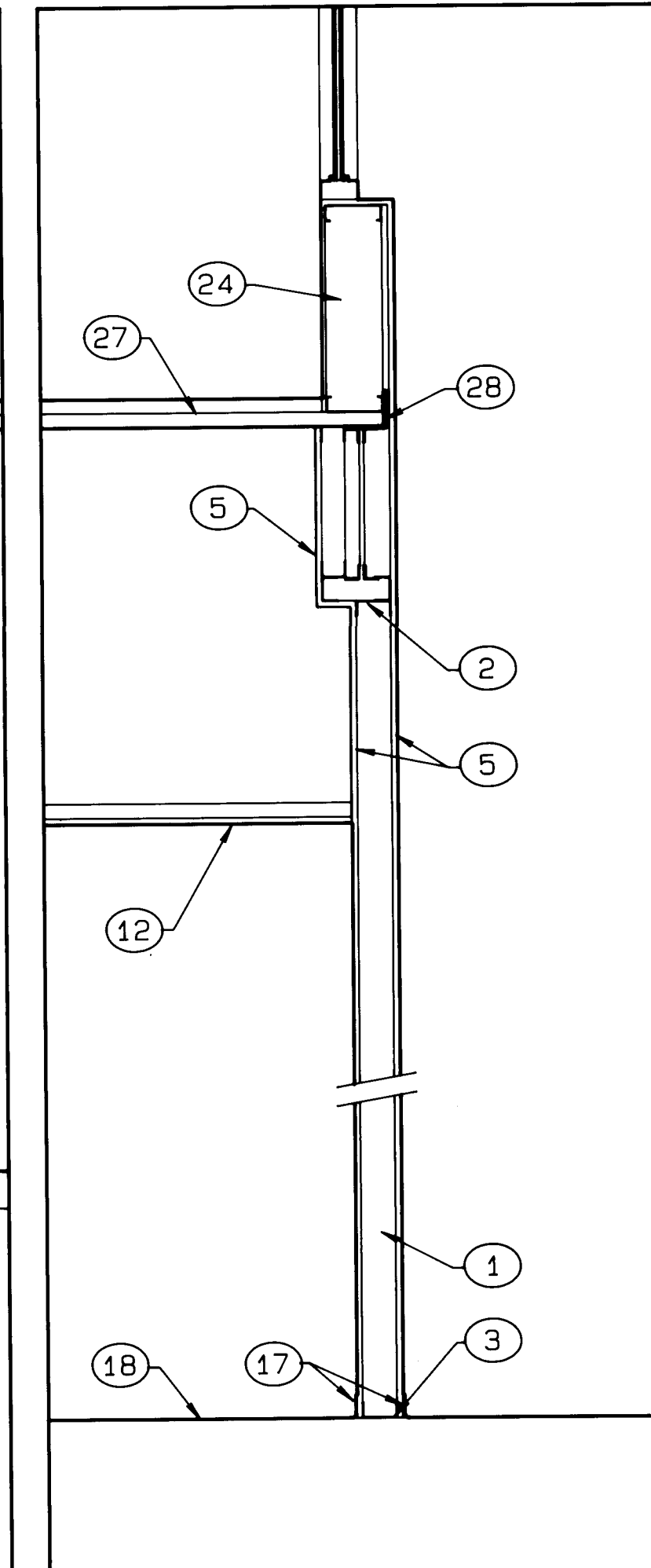
2 TYP. PARTITION
1 1/2"=1'-0"



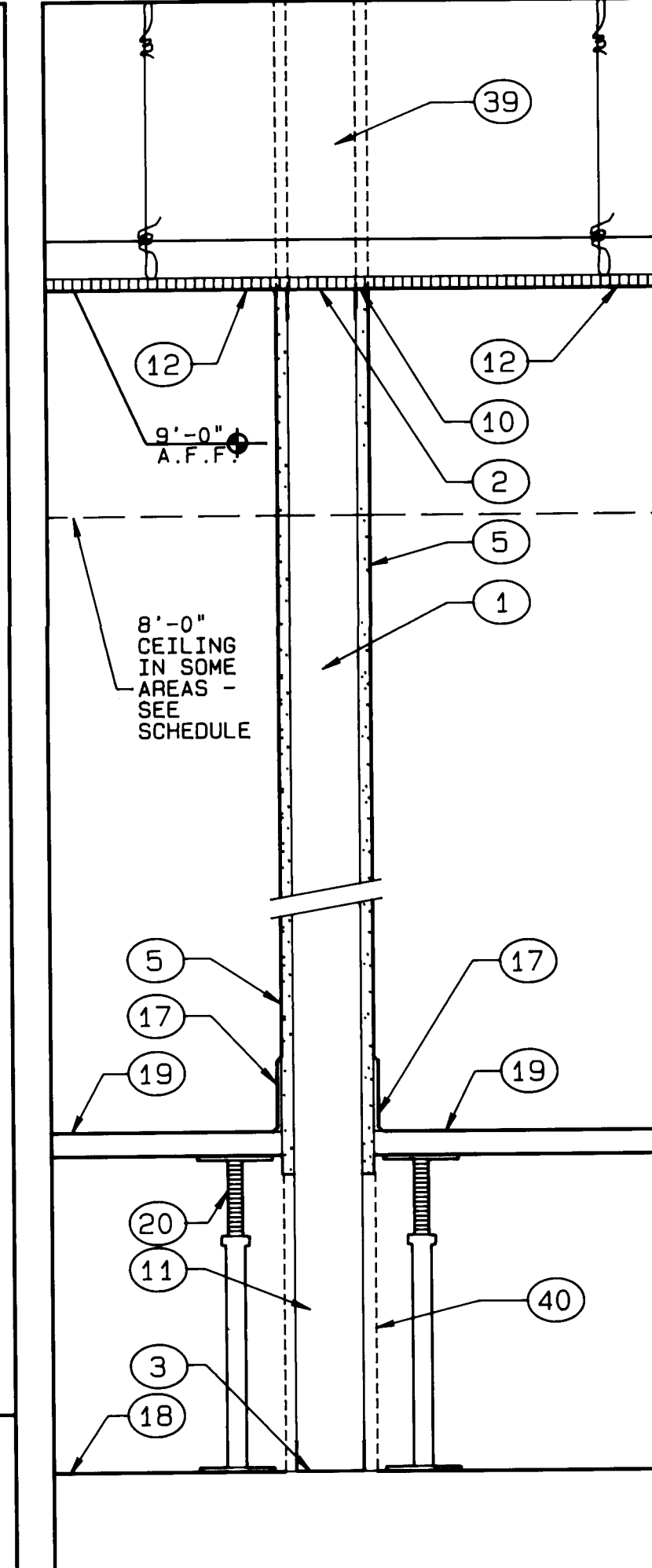
11 LOW WALL DETAIL
3/4"=1'-0"



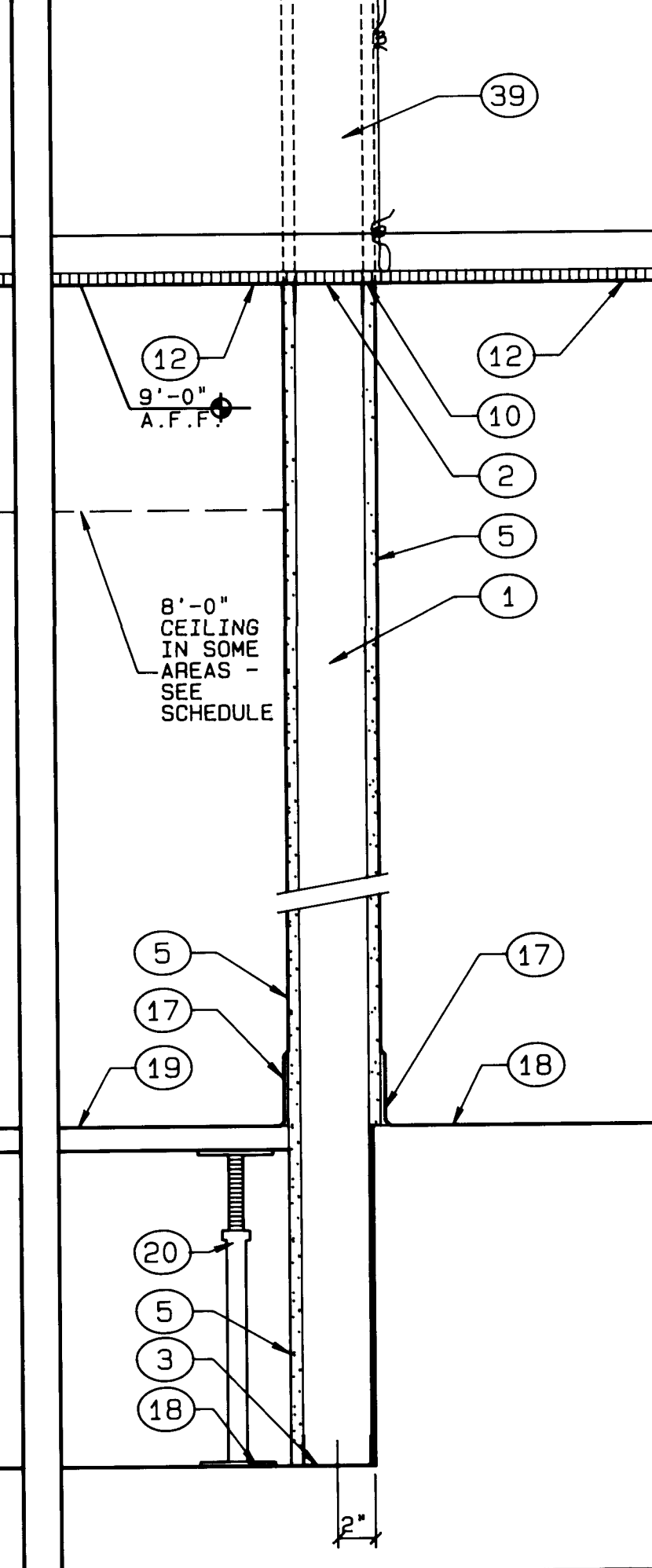
10 WALL SECTION
3/4"=1'-0"



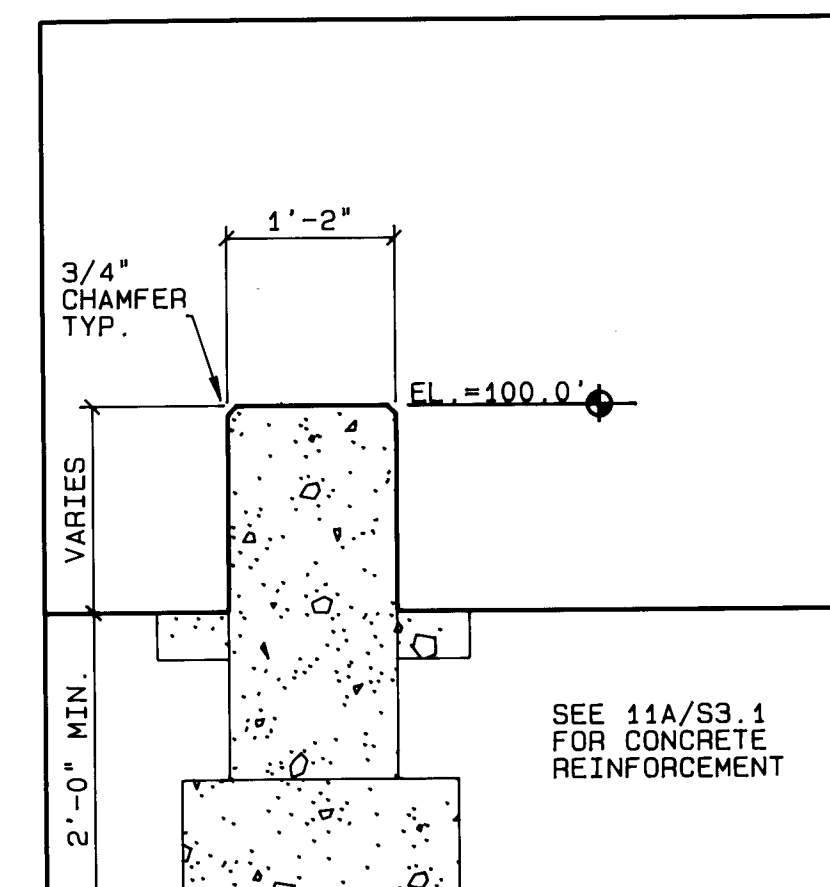
9 PARTITION SECTION
3/4"=1'-0"



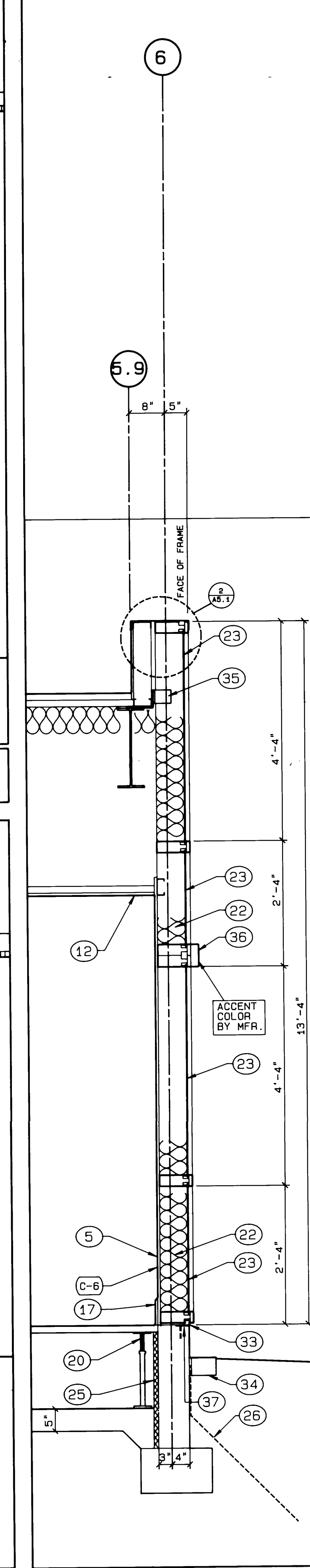
8 PARTITION SECTION
1 1/2"=1'-0"



7 PARTITION SECTION
1 1/2"=1'-0"



12 LOW WALL DETAIL
3/4"=1'-0"



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

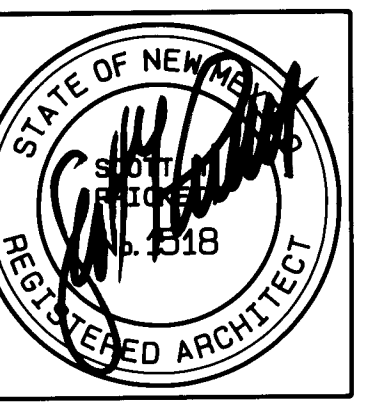
KEYED NOTES

- 1 3 5/8" METAL STUD @ 16" O.C.
- 2 TOP RUNNER
- 3 BOTTOM RUNNER
- 4 HAT CHANNELS @ 16" O.C. ON 1 1/2" COLD ROLLED CHANNELS @ 48" O.C.
- 5 5/8" GYP. BD. (TYPE-X WHERE REQ'D FOR FIRE RATING - SEE FLOOR PLAN SHEET A2.1)
- 6 NOT USED
- 7 5/8" TYPE-X TILE BACKER BOARD
- 8 1/4" SOUND BOARD
- 9 1/2" GYP. BD.
- 10 METAL EDGE TRIM
- 11 2 1/2" BATT INSULATION
- 12 SUSPENDED LAY-IN CEILING
- 13 NOT USED
- 14 SUSPENDED CEILING WIRE
- 15 TILE
- 16 TILE BASE
- 17 VINYL BASE (SEE ROOM FINISH SCHEDULE SHEET A3.1 FOR TYPES & LOCATIONS)
- 18 CONCRETE SLAB
- 19 RAISED ACCESS FLOORING
- 20 ACCESS FLOORING PEDESTAL
- 21 1 5/8" METAL STUDS
- 22 6" BATT INSULATION
- 23 SPANDREL GLASS
- 24 6" METAL STUDS @ 16" O.C.
- 25 RIGID PERIMETER INSULATION
- 26 WATERPROOF MEMBRANE
- 27 STEEL DECK
- 28 STL. ANGLE- SEE STRUCT. DWGS.
- 29 4" MTL. STUDS @ 16" O.C.
- 30 INSULATING FINISH SYSTEM OVER 1/2" GYPSUM SHEATHING
- 31 3/4" CDX PLYWOOD
- 32 WATER SEALANT BY INSULATING FINISH SYSTEM MFR.
- 33 SEALANT
- 34 MOW CURB WHERE CALLED FOR BY SITE PLAN-SEE 1/C2.1
- 35 ATTACHMENT BY MFR.
- 36 ALUMINUM EXTENDER CAP
- 37 STEEL PLATE - SEE STRUCTURAL
- 38 1/2" DIA. X 3" EMBEDMENT EXPANSION ANCHORS @ 2'-0" O.C.
- 39 CARRY MTL. STUDS & GYP. BD. TO DECK AT 1-HR. RATED PARTITIONS
- 40 CARRY GYP. BD. TO SLAB AT 1-HR. RATED PARTITIONS

GENERAL NOTES

1. SOUND INSULATION BATTS & VAPOR BARRIER NOT SHOWN ON THESE DRAWINGS - SEE FLOOR PLAN SHEET A2.1 FOR LOCATIONS

1	2	3	4	5	6	7	8	9	10	11	12
26	31	32	23	8	9						



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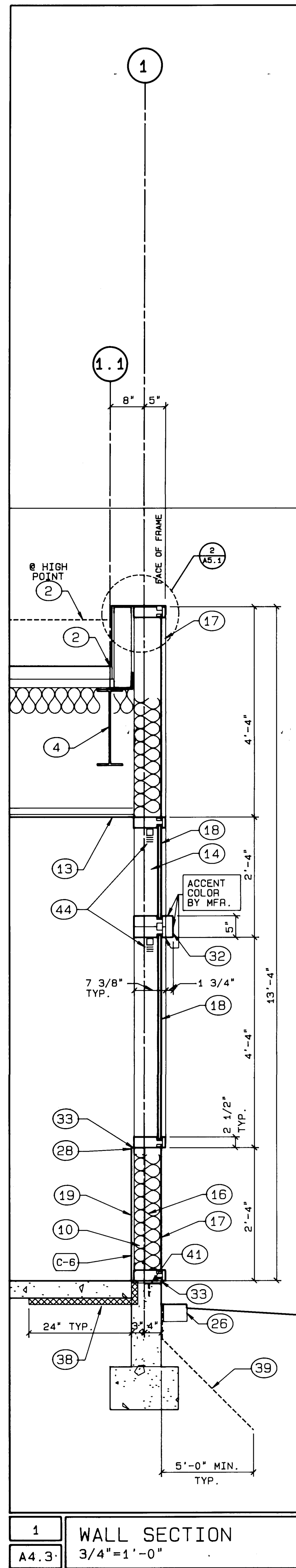
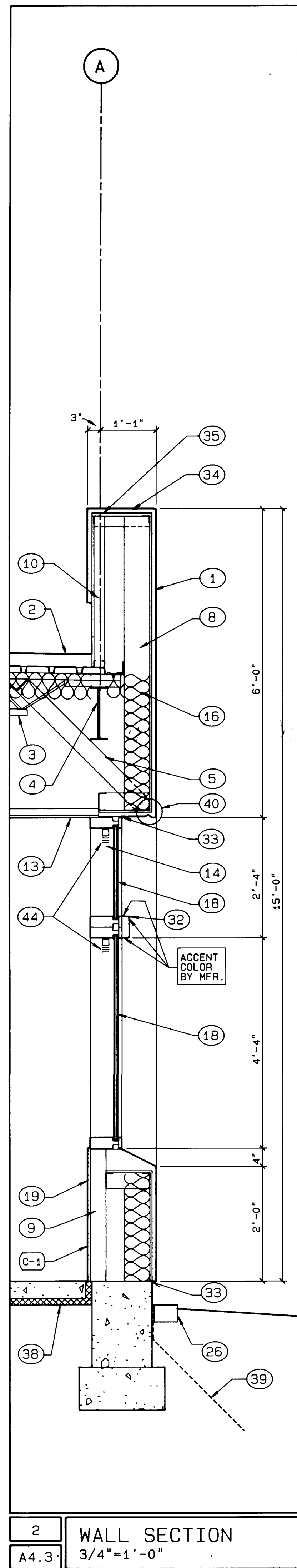
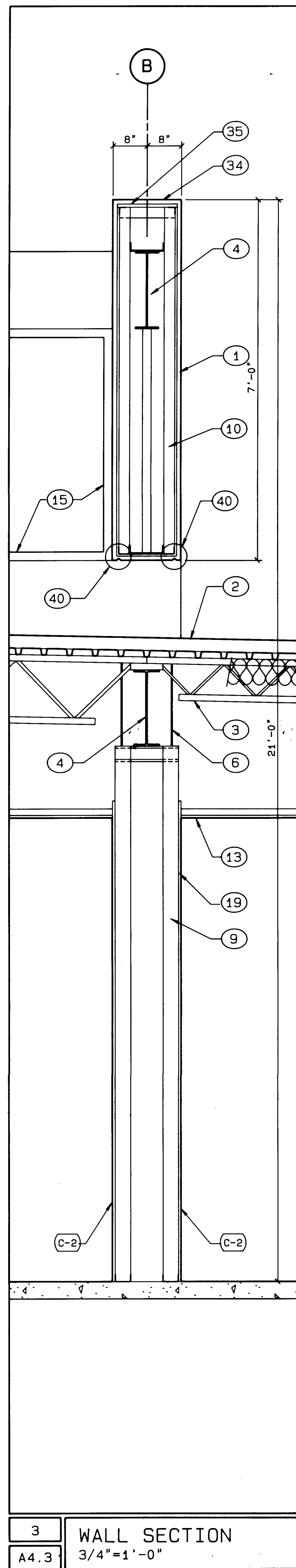
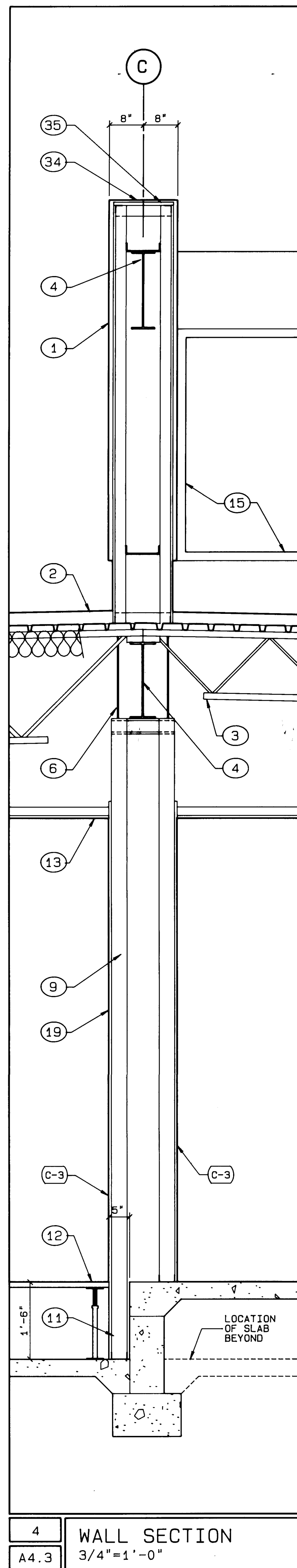
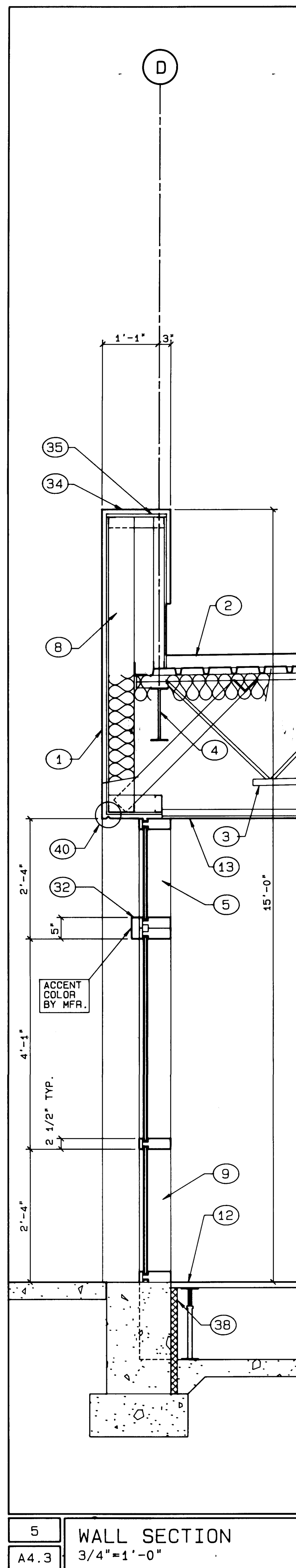
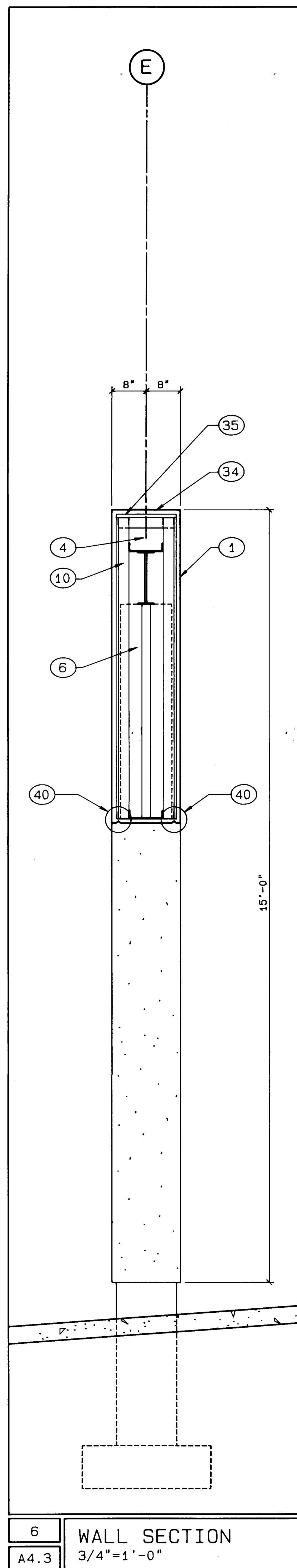
FLIGHT SERVICE STATION BUILDING ALBUQUERQUE INTERNATIONAL AIRPORT

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
WALL
SECTIONS
SHEET

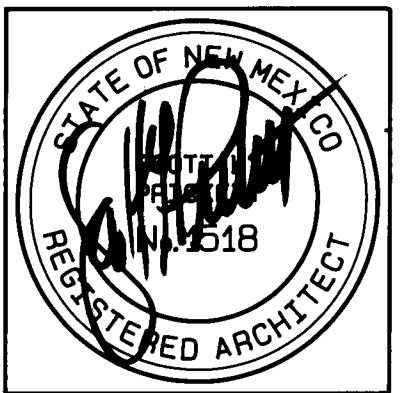
A4.4

SHEET 21 OF 41



KEYED NOTES

- 1 1" INSULATING FINISH SYSTEM OVER 1/2" GYPSUM SHEATHING
- 2 MEMBRANE ROOFING OVER INSULATION BOARD ON STEEL DECK
- 3 STEEL JOIST
- 4 STEEL BEAM
- 5 NOT USED
- 6 STEEL WIDE-FLANGE COLUMN
- 7 STEEL TUBE BEAM
- 8 6" METAL STUDS
- 9 3 5/8" METAL STUDS
- 10 2 1/2" METAL STUDS
- 11 1 5/8" METAL CHANNEL
- 12 RAISED ACCESS FLOORING
- 13 SUSPENDED LAY-IN CEILING
- 14 ALUMINUM CURTAIN WALL FRAMING SYSTEM
- 15 HOLLOW METAL FRAME
- 16 BATT INSULATION
- 17 SPANDREL GLASS
- 18 INSULATING VISION GLASS
- 19 5/8" GYP. BD. (TYPE-X WHERE REQUIRED FOR FIRE RATING - SEE PLAN)
- 20 8" METAL STUDS
- 21 MEMBRANE ROOFING OVER INSULATION BOARD ON 3/4" PLYWOOD SHEATHING
- 22 SHEET METAL CAP FLASHING
- 23 1/4" WIRE GLASS IN HOLLOW METAL FRAME
- 24 ALIGN EDGE OF WALL WITH BREAK IN CEILING PLANE ABOVE
- 25 CONCRETE STEM WALL
- 26 6" WIDE X 4" DEEP CONC. MOW STRIP SEE 1/C2.1
- 27 5/8" M.R. GYP. BD.
- 28 METAL CORNER TRIM
- 29 MODIFIED ALUMINUM CURTAIN WALL FRAME
- 30 1" X 1" SQUARE ALUMINUM TUBE BY CURTAIN WALL MANUFACTURER
- 31 STRUCTURAL SILICONE SEALANT
- 32 ALUMINUM EXTENDER CAP
- 33 SEALANT
- 34 WATER SEALANT BY INSULATING FINISH SYSTEM MFR.
- 35 3/4" CDX PLYWOOD
- 36 ELECTRICAL EQUIPMENT
- 37 LOUVER
- 38 1" RIGID PERIMETER INSULATION
- 39 WATERPROOF MEMBRANE
- 40 NOTCH INSULATION TO FORM DRIP EDGE
- 41 STL. PLATE - SEE STRUCTURAL
- 42 RECESSED PUSHBUTTON FOR AUTOMATIC DOOR OPERATION
- 43 AUTOMATIC DOOR OPENER
- 44 HORIZONTAL BLINDS



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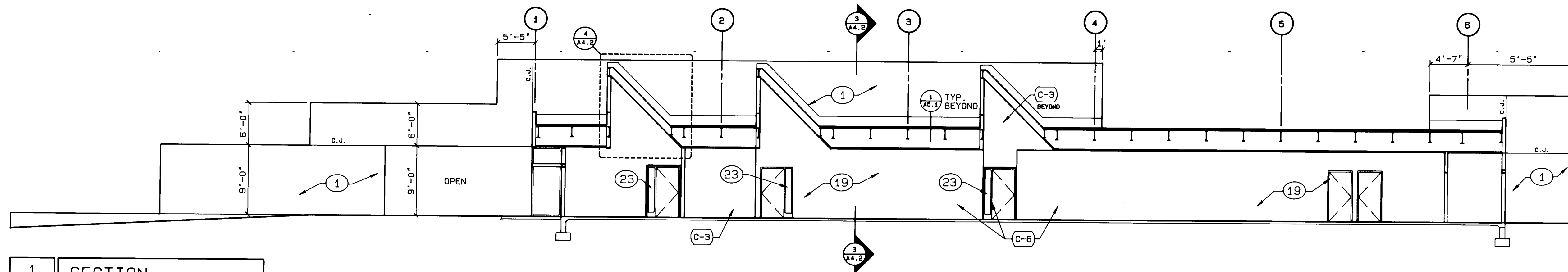
APPROVED DATE
Don Martin 5/21/87

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

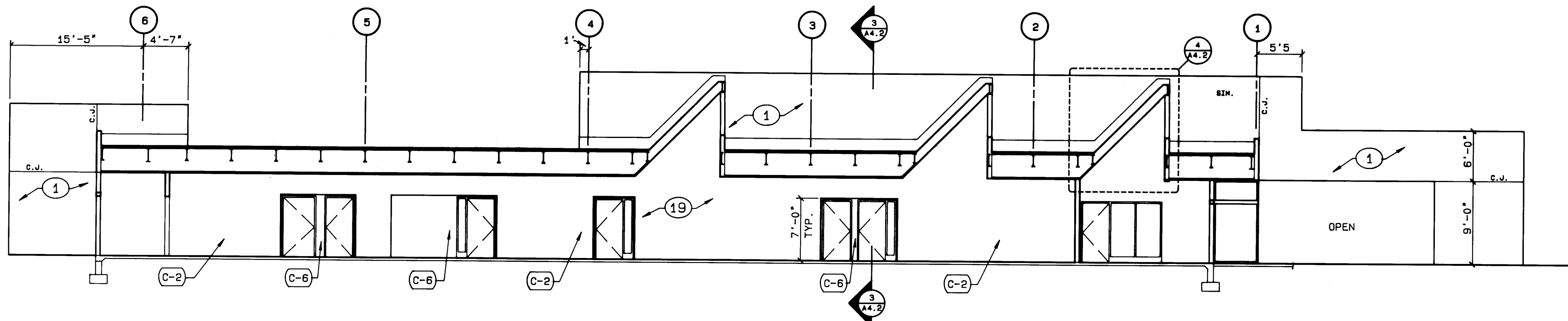
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A4.3

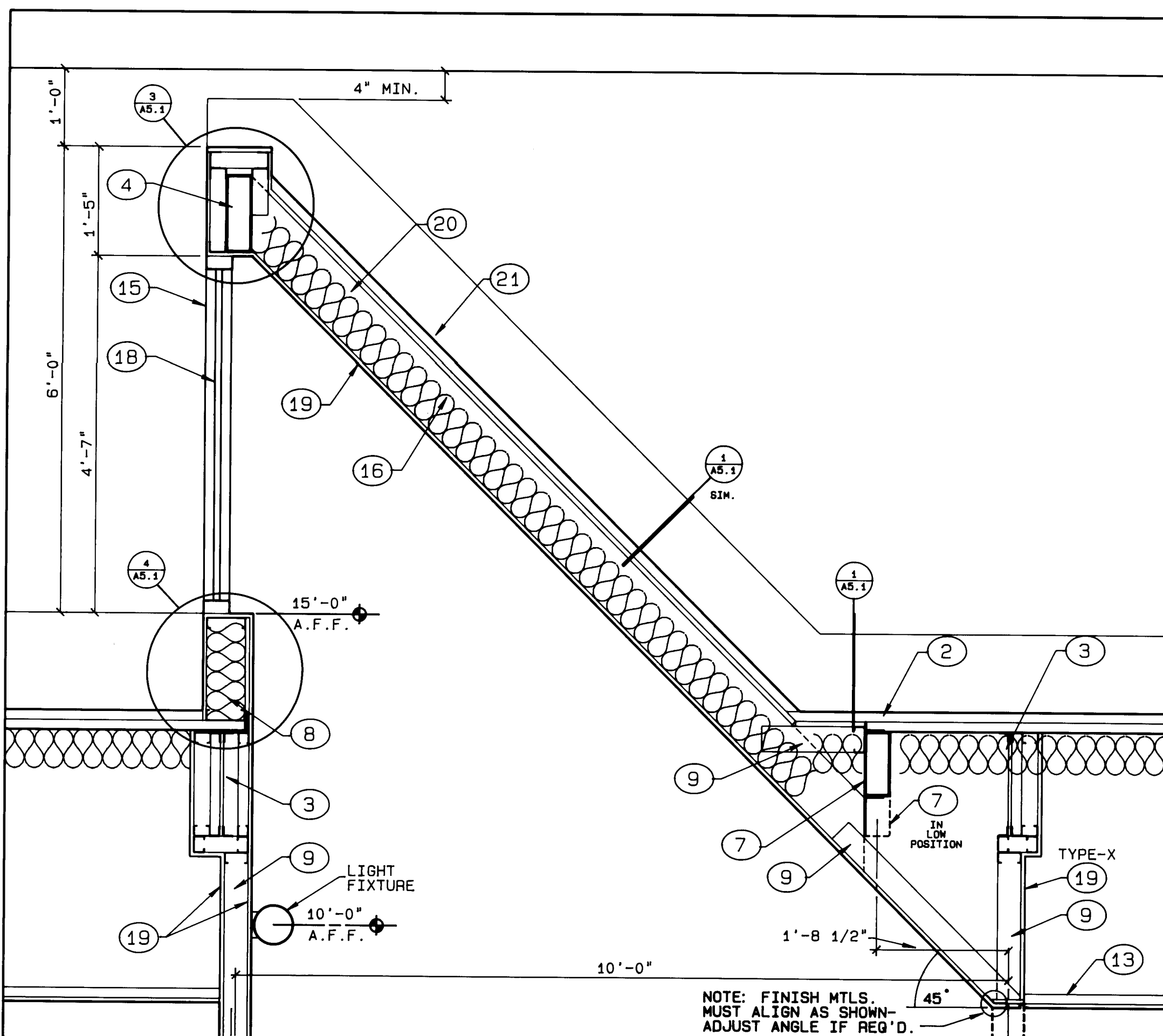
SHEET 20 OF 41



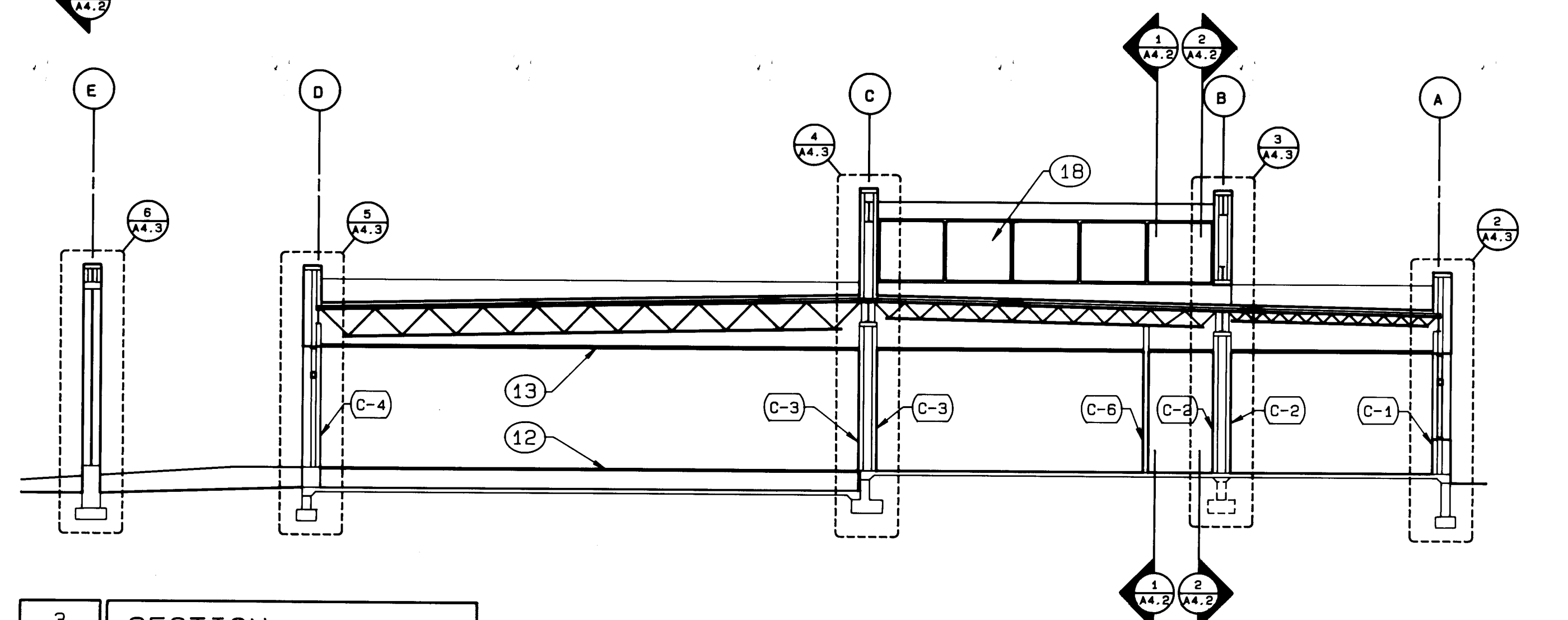
1 SECTION
A4.2 1/8"=1'-0"



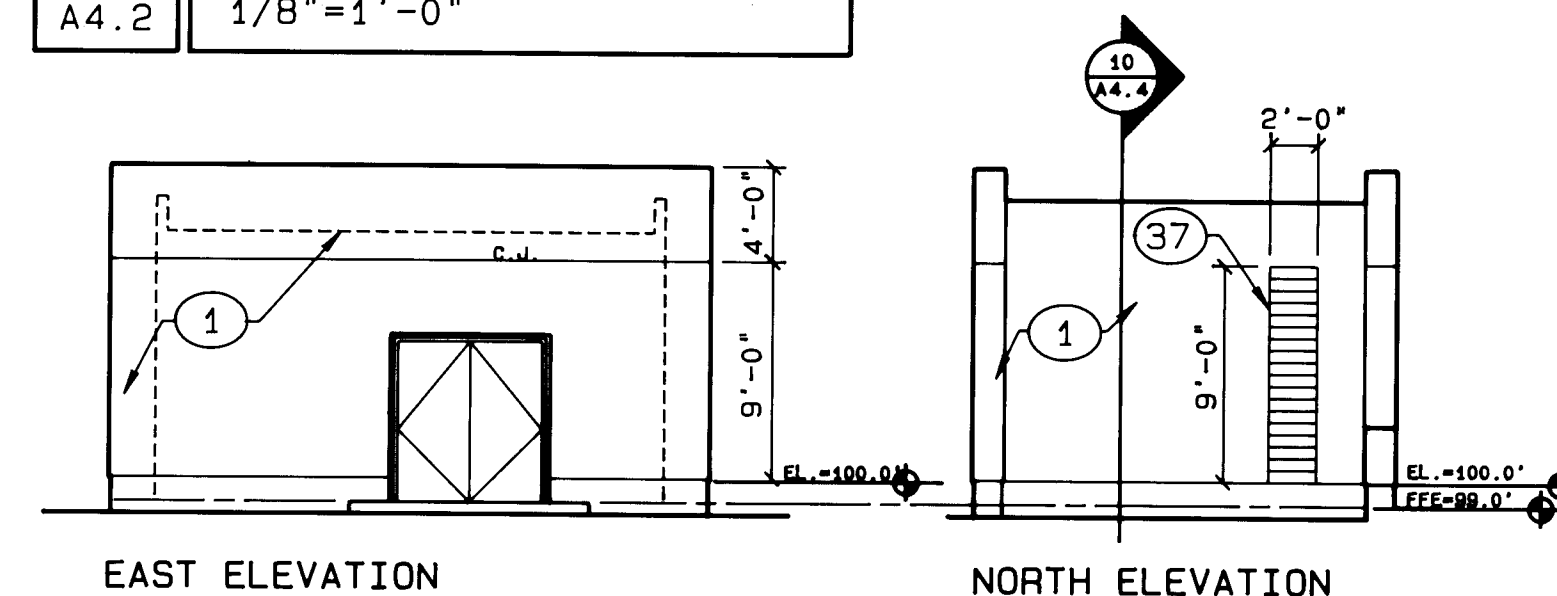
2 SECTION
A4.2 1/8"=1'-0"



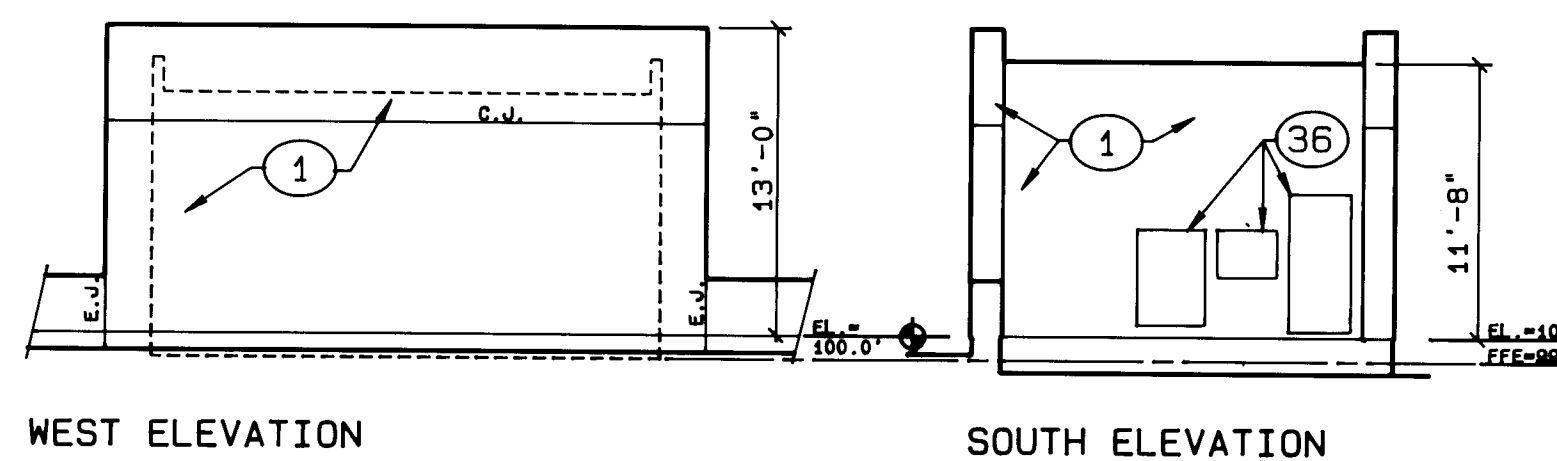
4 CLERESTORY SECTION
A4.2 3/4"=1'-0"



3 SECTION
A4.2 1/8"=1'-0"

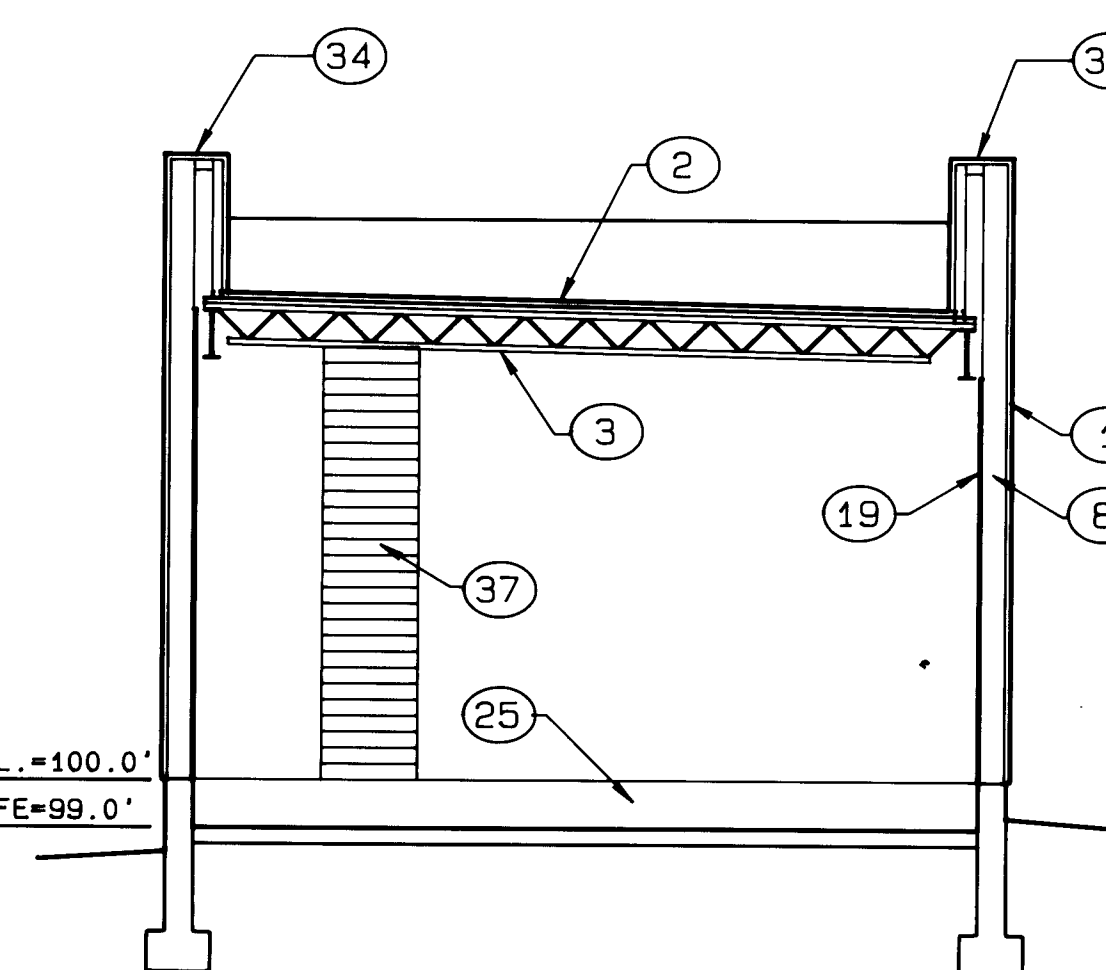


EAST ELEVATION NORTH ELEVATION



WEST ELEVATION SOUTH ELEVATION

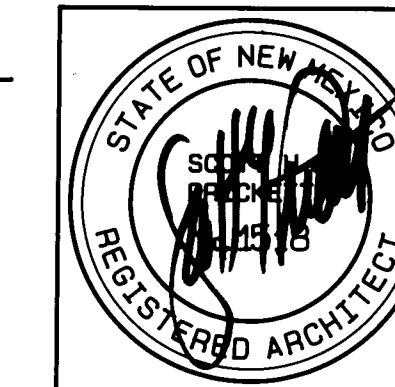
5 ENGINE GENERATOR BLDG. ELEVATIONS
A4.2 1/8"=1'-0"



6 E.G. BLDG. SECTION
A4.2 1/4"=1'-0"

KEYED NOTES

- 1 1" INSULATING FINISH SYSTEM OVER 1/2" GYPSUM SHEATHING
- 2 MEMBRANE ROOFING OVER INSULATION BOARD ON STEEL DECK
- 3 STEEL JOIST
- 4 STEEL BEAM
- 5 NOT USED
- 6 STEEL WIDE-FLANGE COLUMN
- 7 STEEL TUBE BEAM
- 8 6" METAL STUDS
- 9 3 5/8" METAL STUDS
- 10 2 1/2" METAL STUDS
- 11 1 5/8" METAL CHANNEL
- 12 RAISED ACCESS FLOORING
- 13 SUSPENDED LAY-IN CEILING
- 14 ALUMINUM CURTAIN WALL FRAMING SYSTEM
- 15 HOLLOW METAL FRAME
- 16 BATT INSULATION
- 17 SPANDREL GLASS
- 18 INSULATING VISION GLASS
- 19 5/8" GYP. BD. (TYPE-X WHERE REQUIRED FOR FIRE RATING - SEE PLAN)
- 20 8" METAL STUDS
- 21 MEMBRANE ROOFING OVER INSULATION BOARD ON 1" STEEL DECK
- 22 SHEET METAL CAP FLASHING
- 23 1/4" WIRE GLASS IN HOLLOW METAL FRAME
- 24 ALIGN EDE OF WALL WITH BREAK IN CEILING PLANE ABOVE
- 25 CONCRETE STEM WALL
- 26 6" WIDE X 4" DEEP CONC. MOW STRIP SEE 1/C2.1
- 27 5/8" M.R. GYP. BD.
- 28 METAL CORNER TRIM
- 29 MODIFIED ALUMINUM CURTAIN WALL FRAME
- 30 1" X 1" SQUARE ALUMINUM TUBE BY CURTAIN WALL MANUFACTURER
- 31 STRUCTURAL SILICONE SEALANT
- 32 ALUMINUM EXTENDER CAP
- 33 SEALANT
- 34 WATER SEALANT BY INSULATING FINISH SYSTEM MFR.
- 35 3/4" CDX PLYWOOD
- 36 ELECTRICAL EQUIPMENT
- 37 LOUVER
- 38 1" RIGID PERIMETER INSULATION
- 39 WATERPROOF MEMBRANE
- 40 NOTCH INSULATION TO FORM DRIP EDGE
- 41 STL. PLATE - SEE STRUCTURAL
- 42 RECESSED PUSHBUTTON FOR AUTOMATIC DOOR OPERATION
- 43 AUTOMATIC DOOR OPENER
- 44 HORIZONTAL BLINDS



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FLIGHT SERVICE STATION BUILDING

APPROVED DATE
Don Martin 5/21/87

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
BUILDING
SECTIONS

SHEET

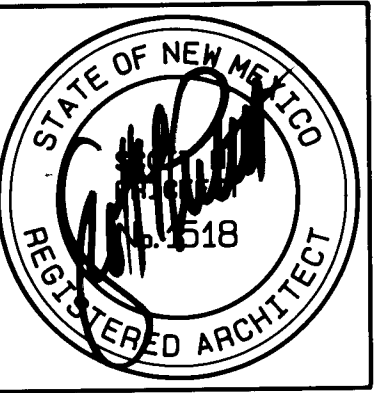
A4.2

SHEET 19 OF 41

3132

KEYED NOTES

- 1 INSULATING FINISH SYSTEM OVER GYPSUM SHEATHING
- 2 ALUMINUM AND GLASS CURTAIN WALL SYSTEM
- 3 SPANDREL GLASS
- 4 VISION GLASS
- 5 CONCRETE STEM WALL
- 6 CONCRETE TOWER BASE
- 7 TOWER N.I.C.



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INTERIOR DESIGN

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ALBUQUERQUE NM 87002
505 - 842 - 6370

FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

Don Martin 5/21/87
APPROVED DATE

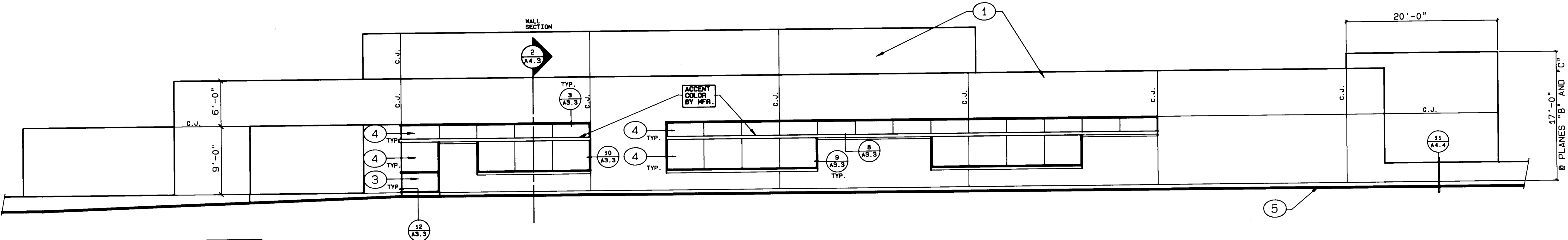
DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
ELEVATIONS

SHEET

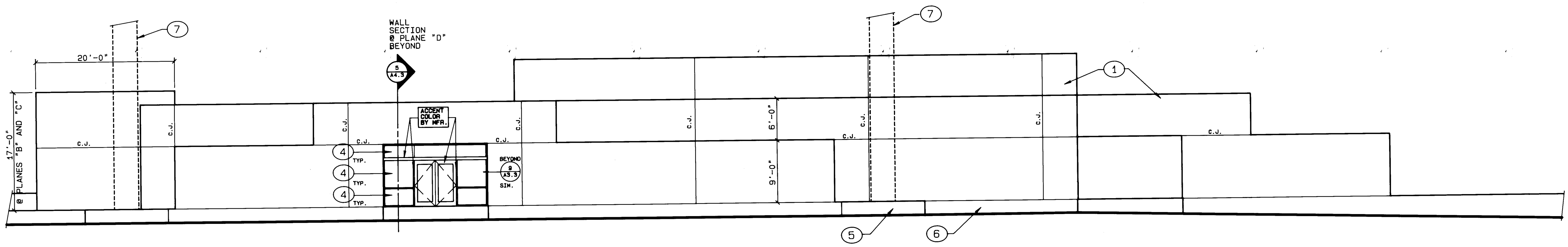
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SHEET 18 OF 41

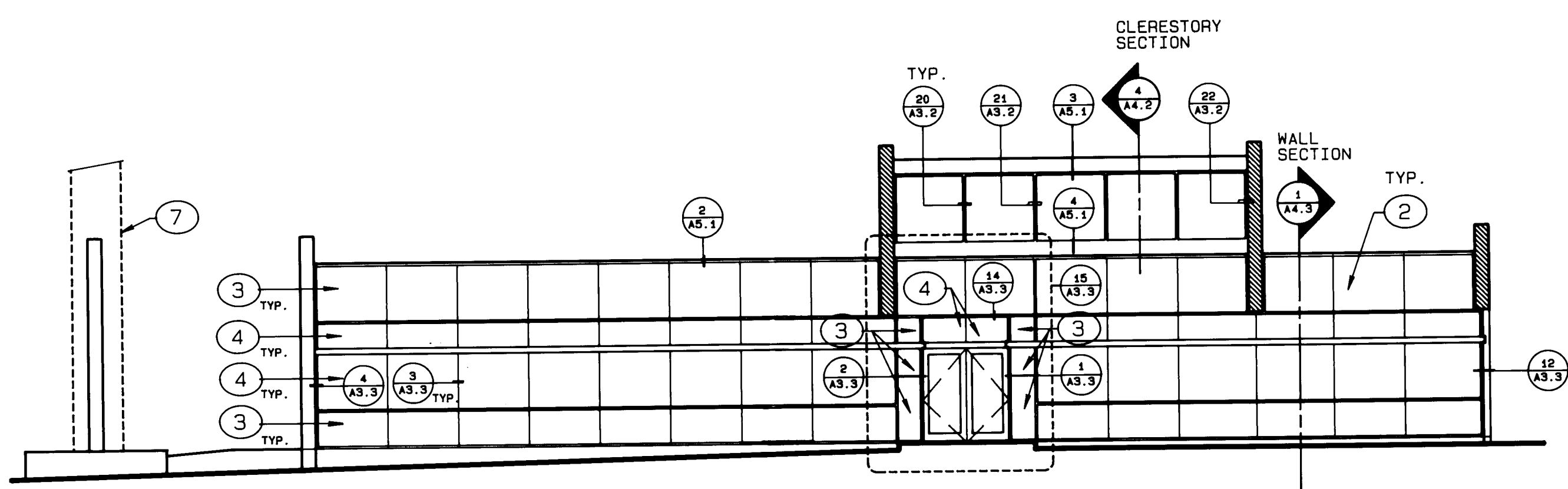


1 WEST ELEVATION
A4.1 1/8"=1'-0"

NOTE:
SEE FLOOR PLAN FOR ADDITIONAL DETAIL
KEYS @ UNIQUE CURTAIN WALL CONDITIONS

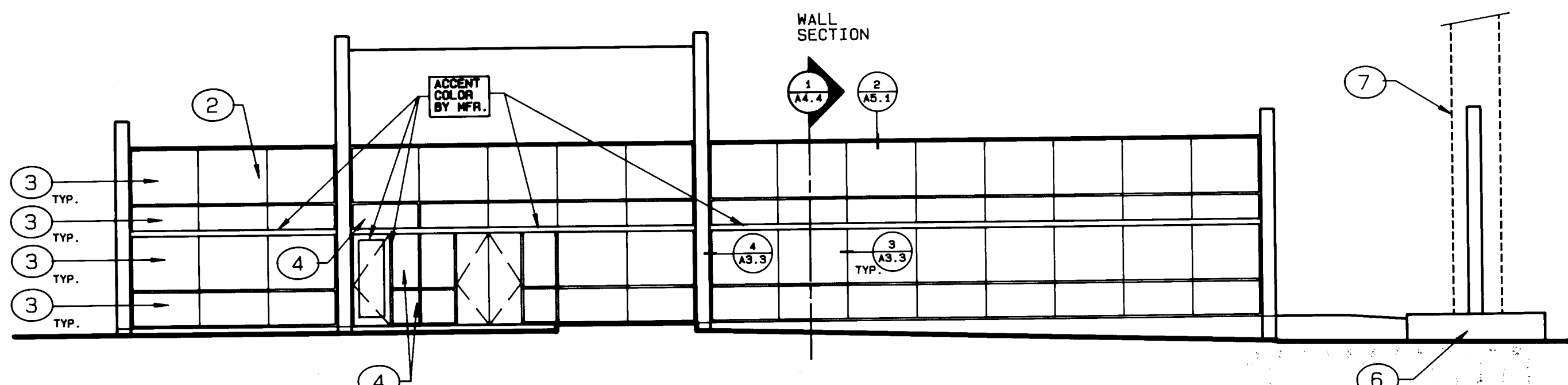


2 EAST ELEVATION
A4.1 1/8"=1'-0"



4 NORTH ELEVATION
A4.1 1/8"=1'-0"

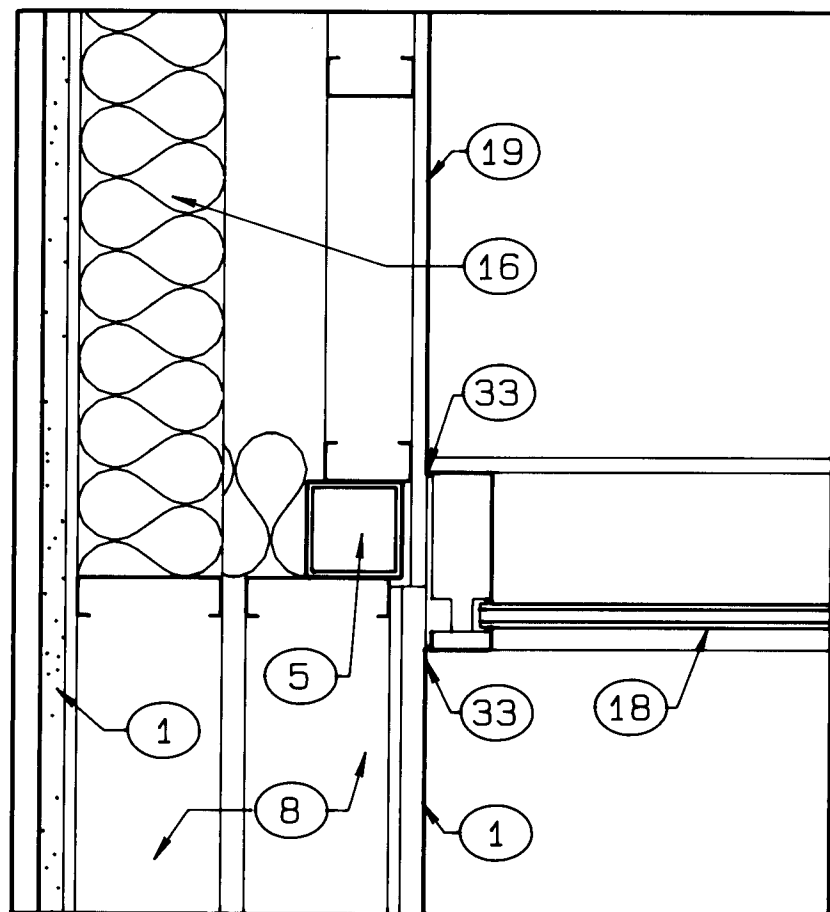
NOTE:
1. SEE WALL SECTION 1/A4.3 FOR
TYPICAL CURTAIN WALL CONDITIONS
2. SEE FLOOR PLAN FOR ADDITIONAL DETAIL
KEYS @ UNIQUE CURTAIN WALL CONDITIONS



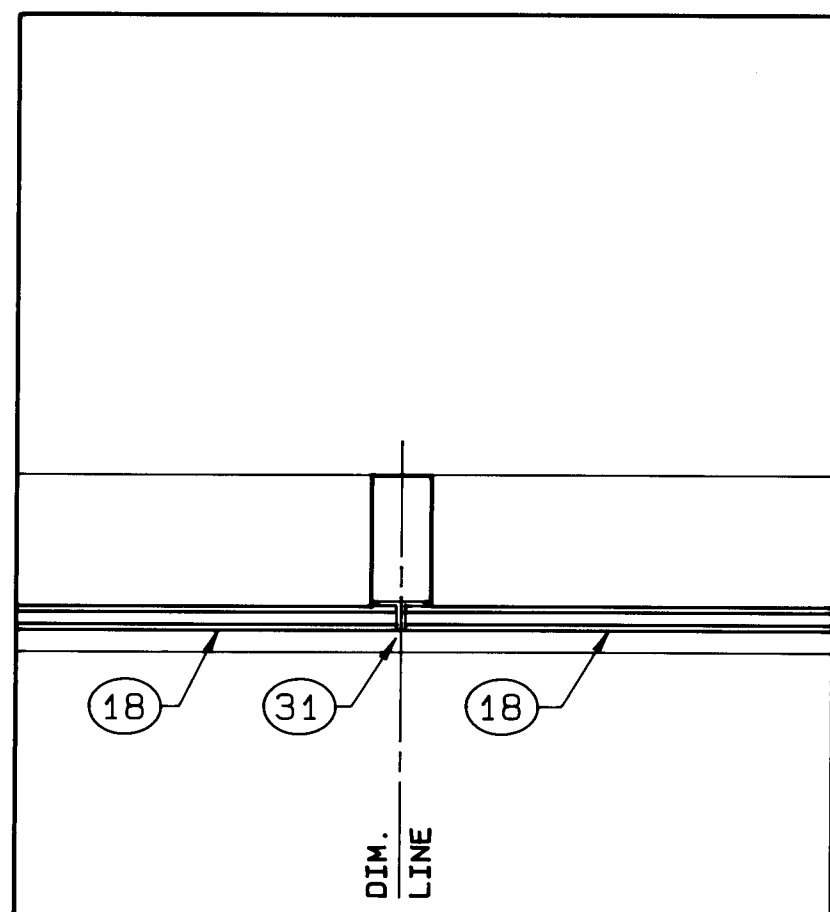
3 SOUTH ELEVATION
A4.1 1/8"=1'-0"

NOTE:
SEE WALL SECTION 1/A4.4 FOR
TYPICAL CURTAIN WALL CONDITIONS

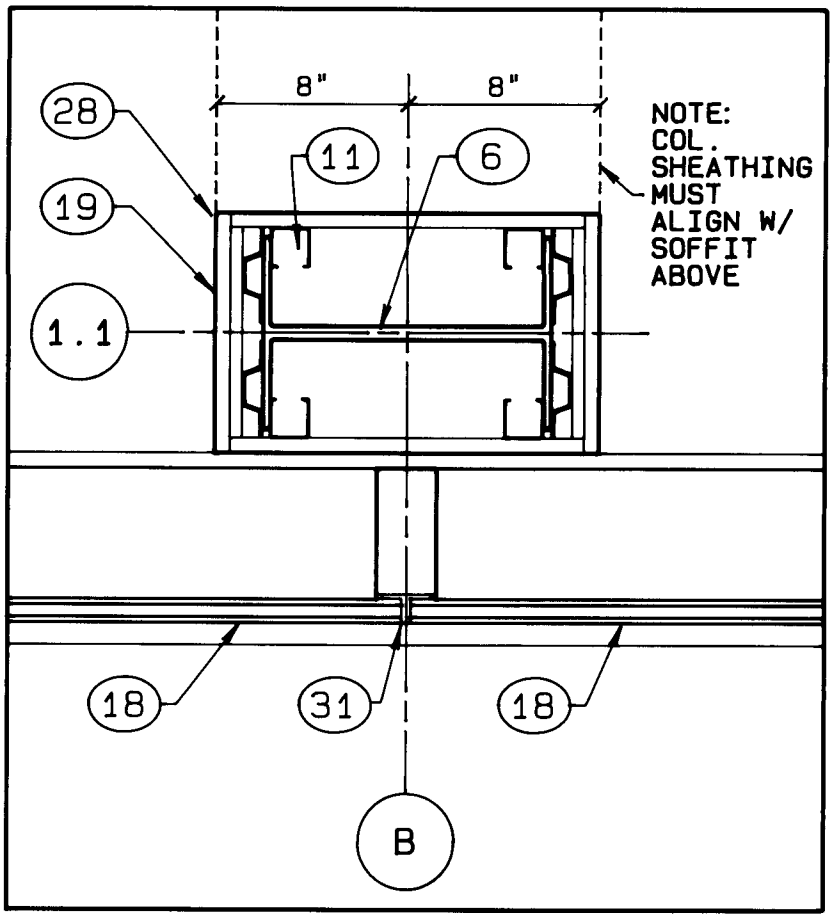
1 2 3 4 5 6 7 8 9 10 11 12
2 6 3 1 3 2 2 0 8 9



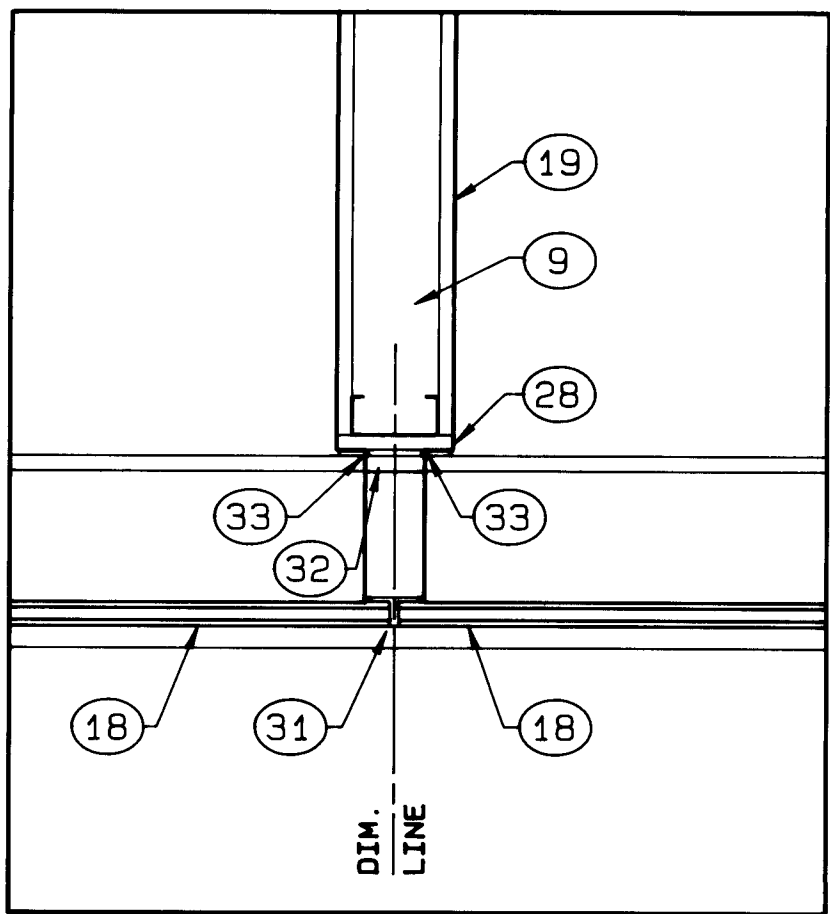
4 JAMB DETAIL
A3.3 1 1/2"=1'-0"



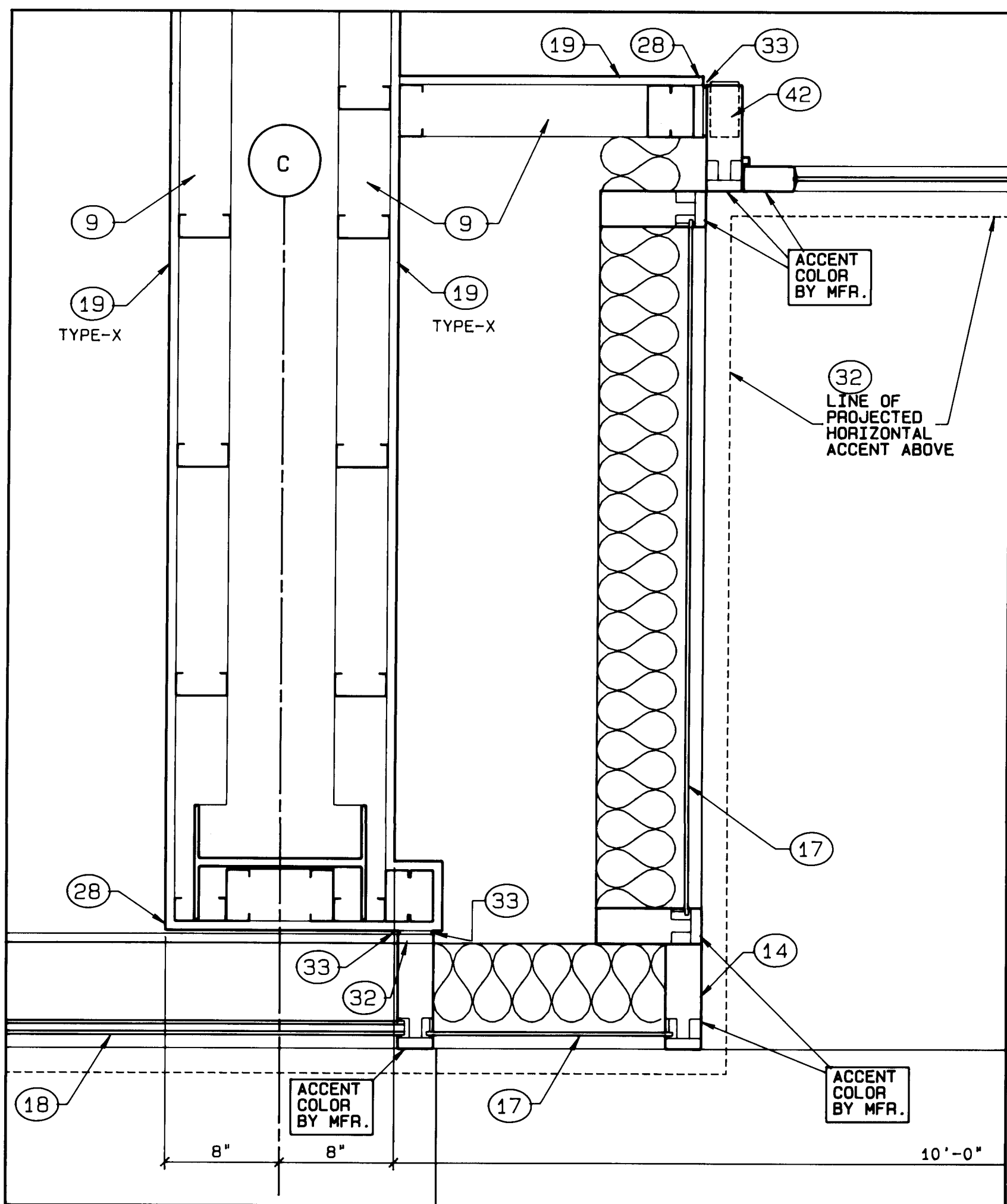
3 TYP. VERT. MULL
A3.3 1 1/2"=1'-0"



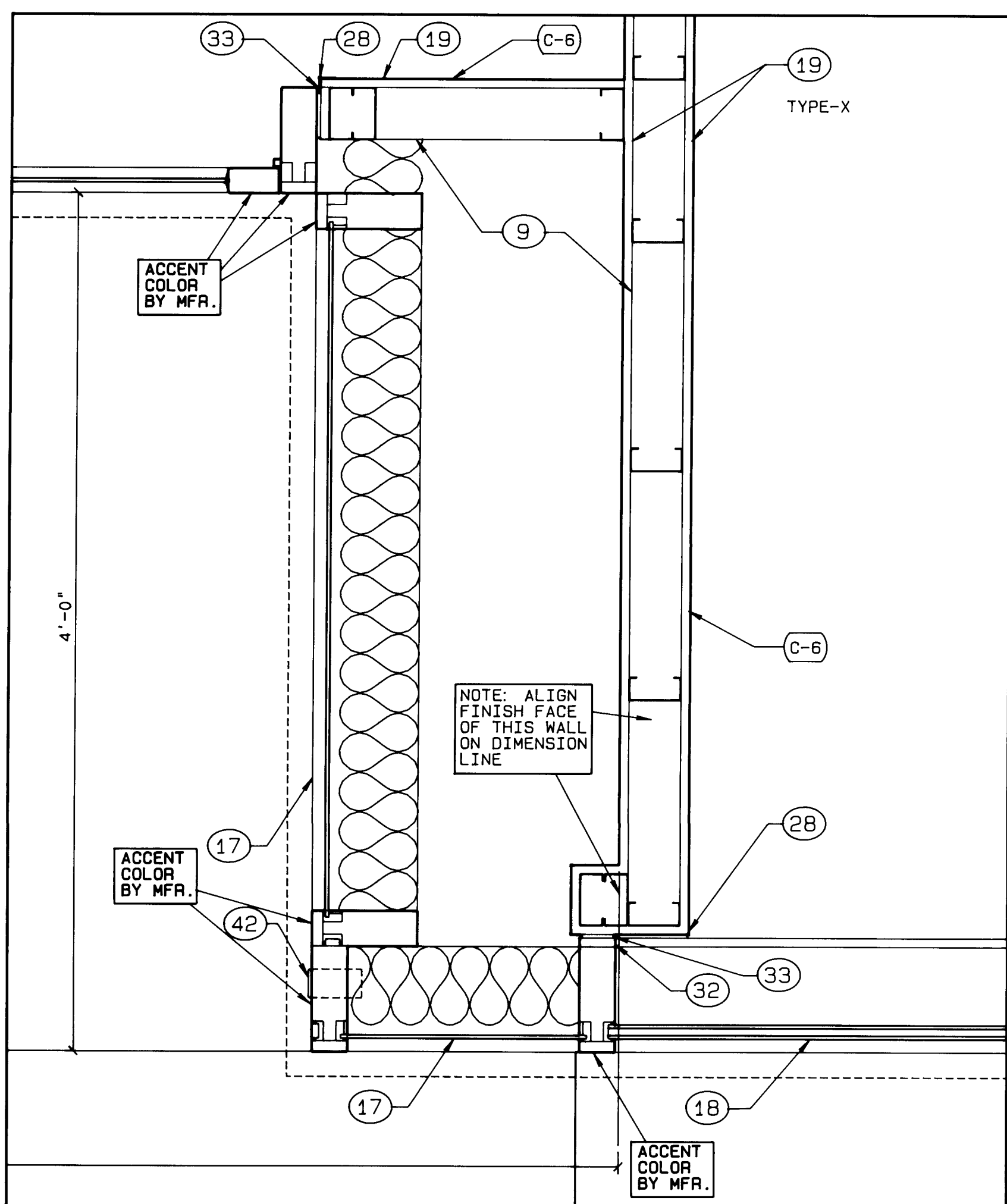
6 COLUMN DETAIL
A3.3 1 1/2"=1'-0"



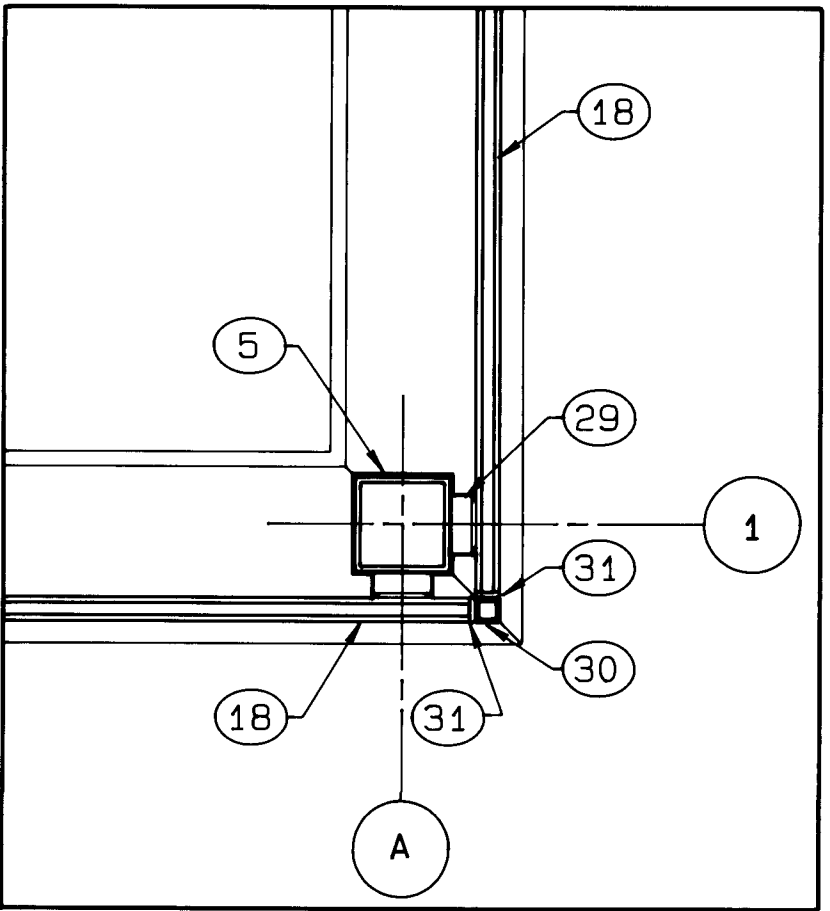
5 WALL DTL. @ MULL
A3.3 1 1/2"=1'-0"



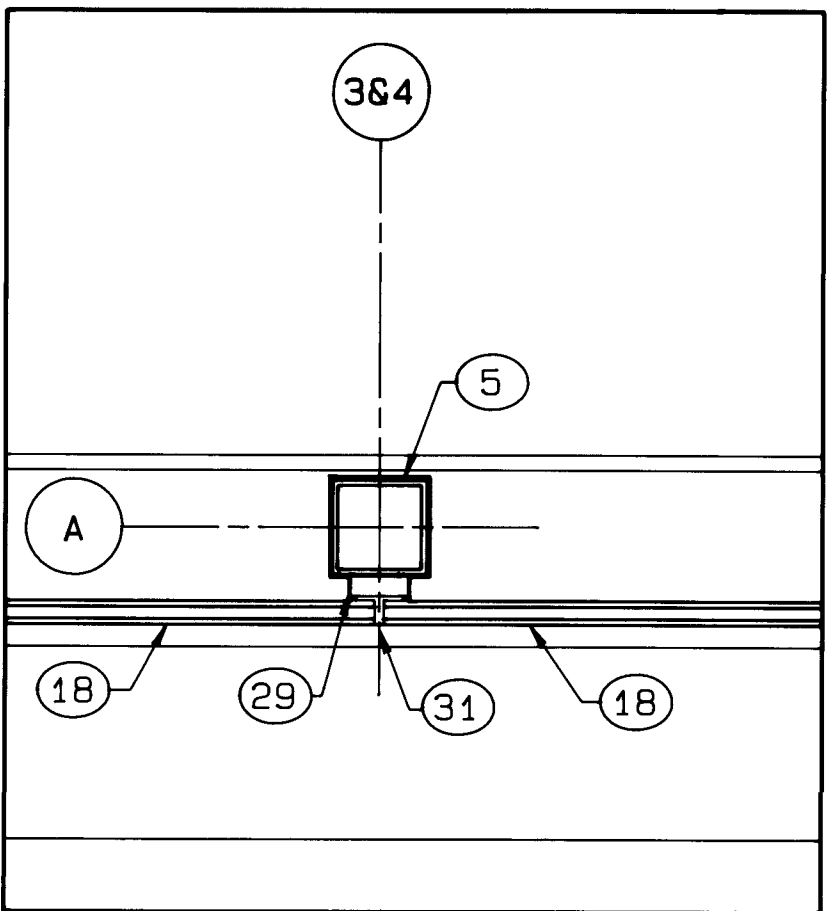
2 ENTRY DETAIL
A3.3 1 1/2"=1'-0"



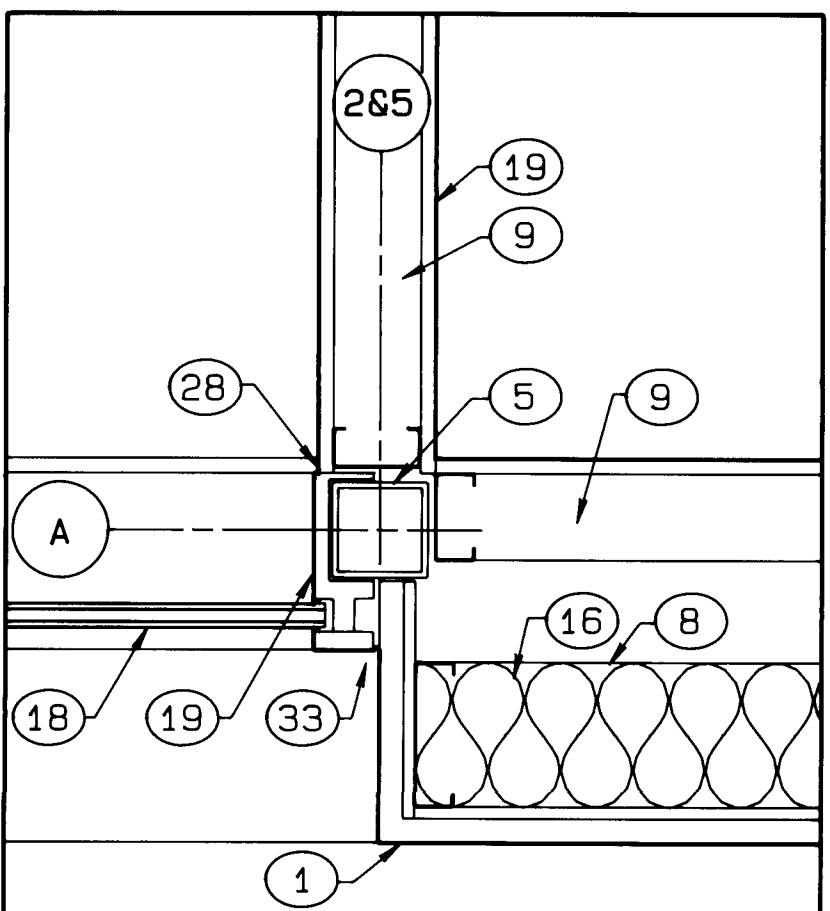
1 ENTRY DETAIL
A3.3 1 1/2"=1'-0"



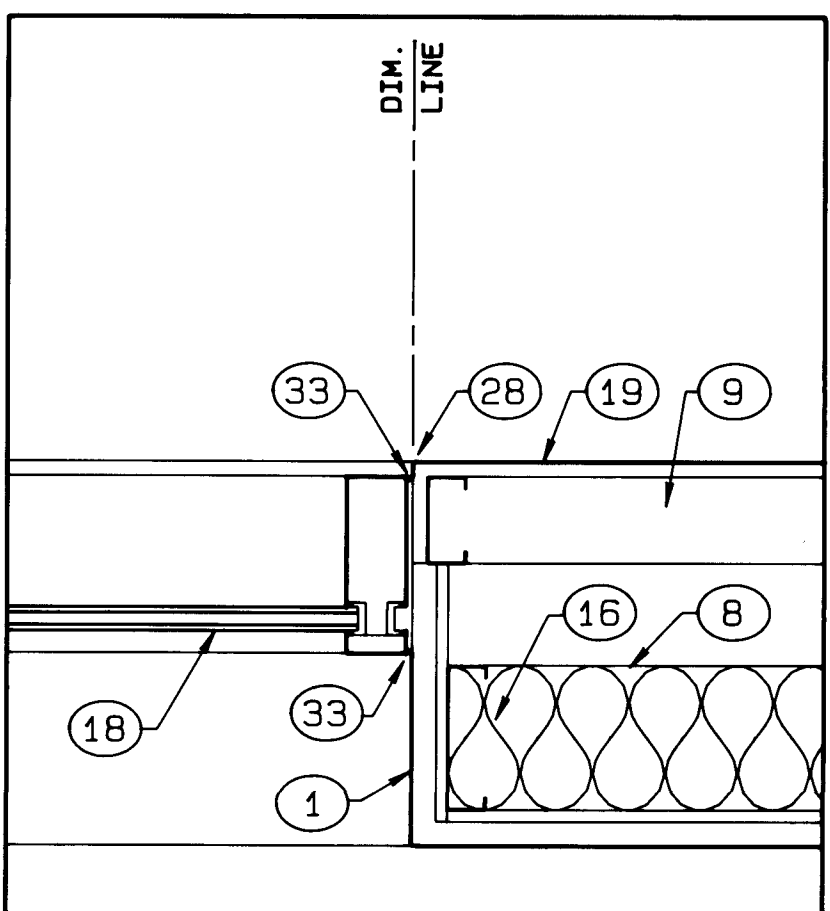
12 CORNER DETAIL
A3.3 1 1/2"=1'-0"



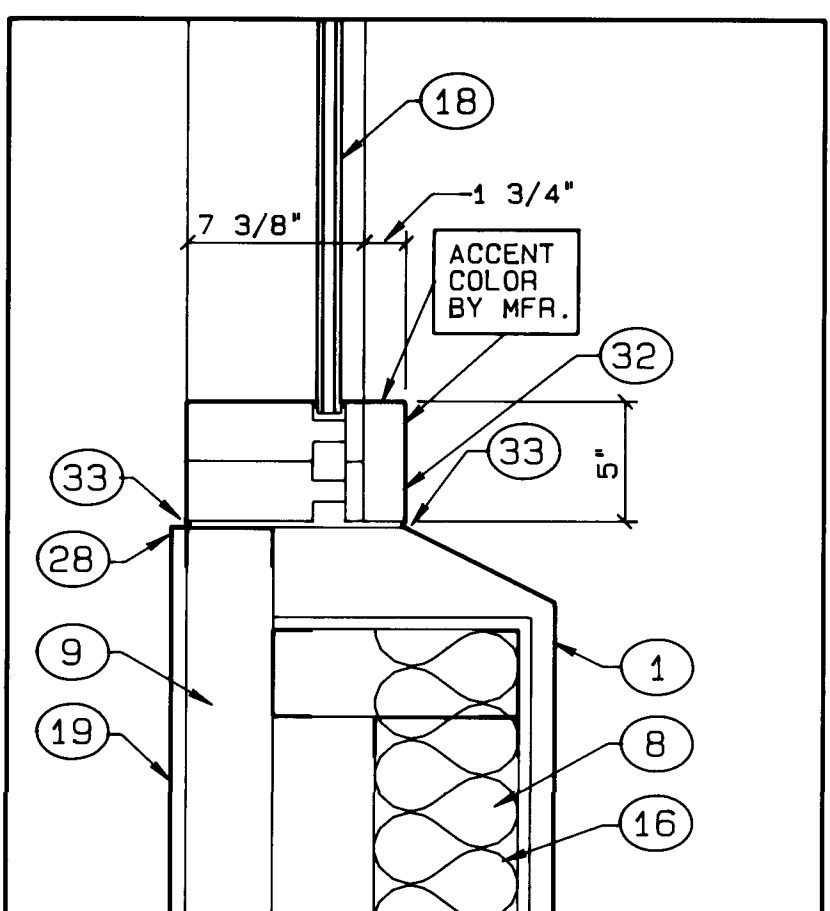
11 COLUMN DETAIL
A3.3 1 1/2"=1'-0"



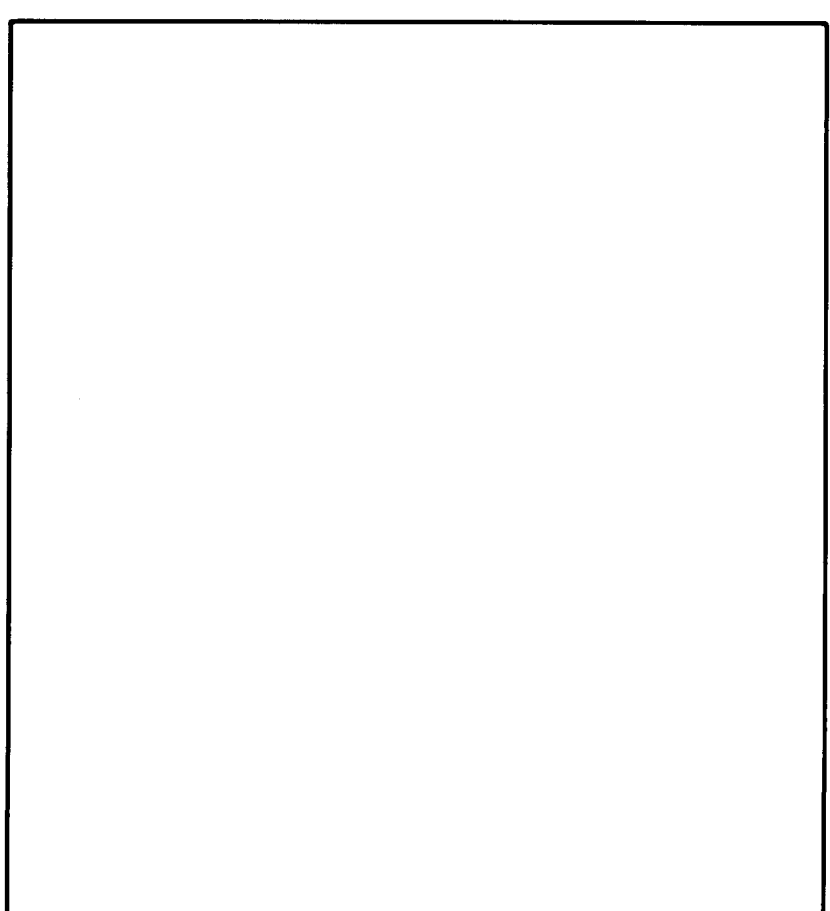
10 JAMB DETAIL
A3.3 1 1/2"=1'-0"



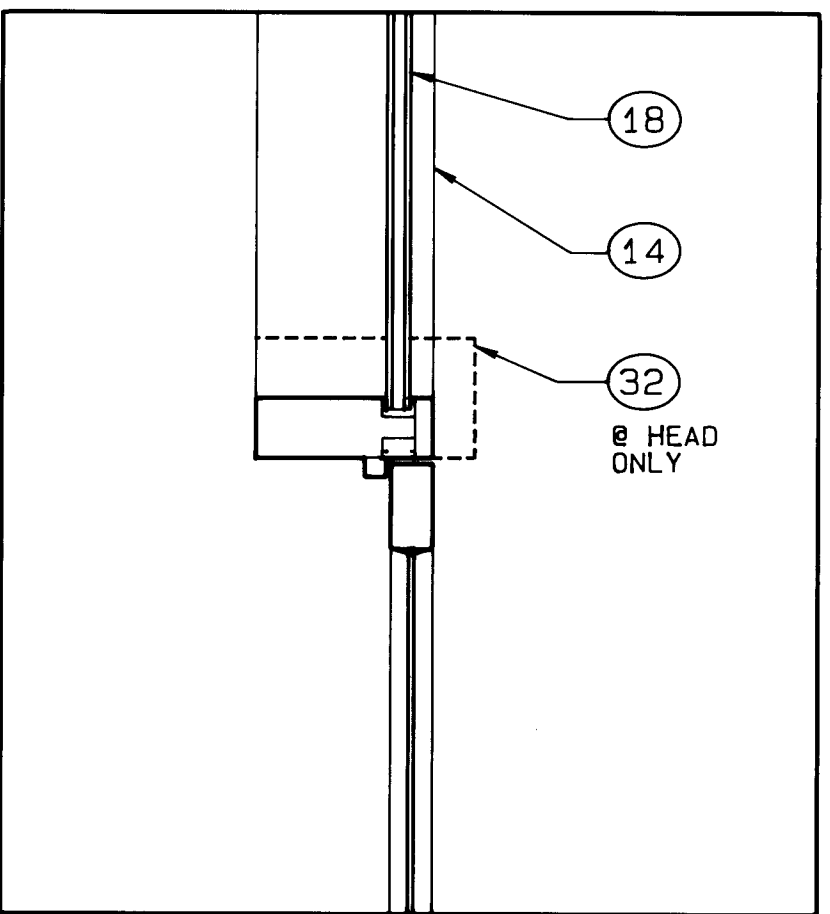
9 JAMB DETAIL
A3.3 1 1/2"=1'-0"



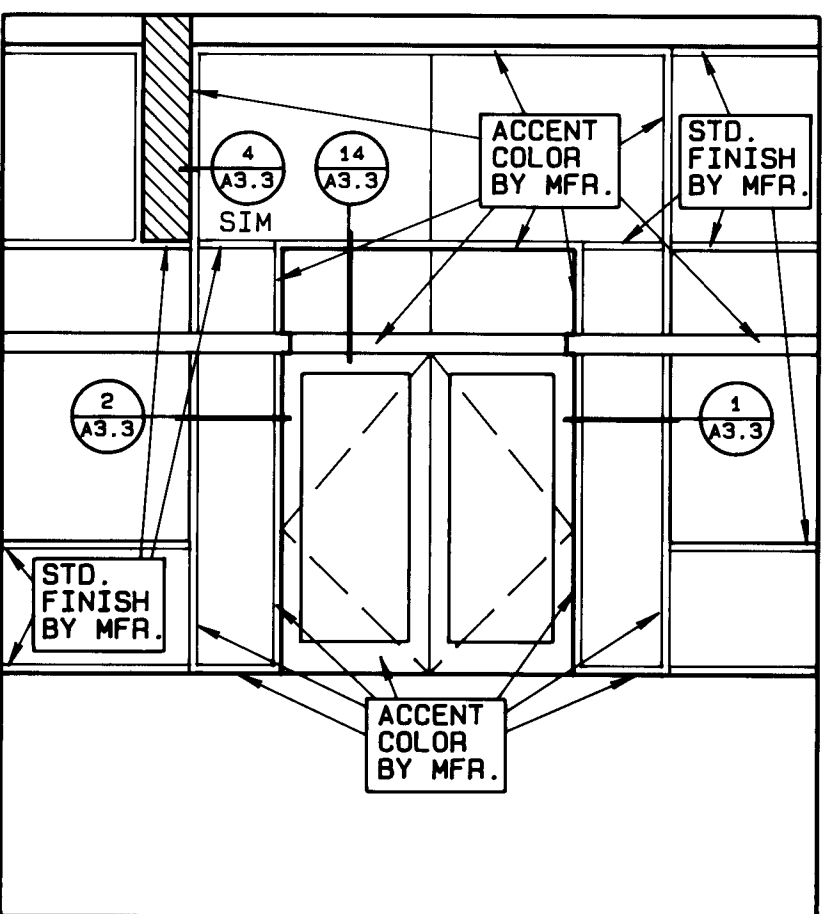
8 SILL DETAIL
A3.3 1 1/2"=1'-0"



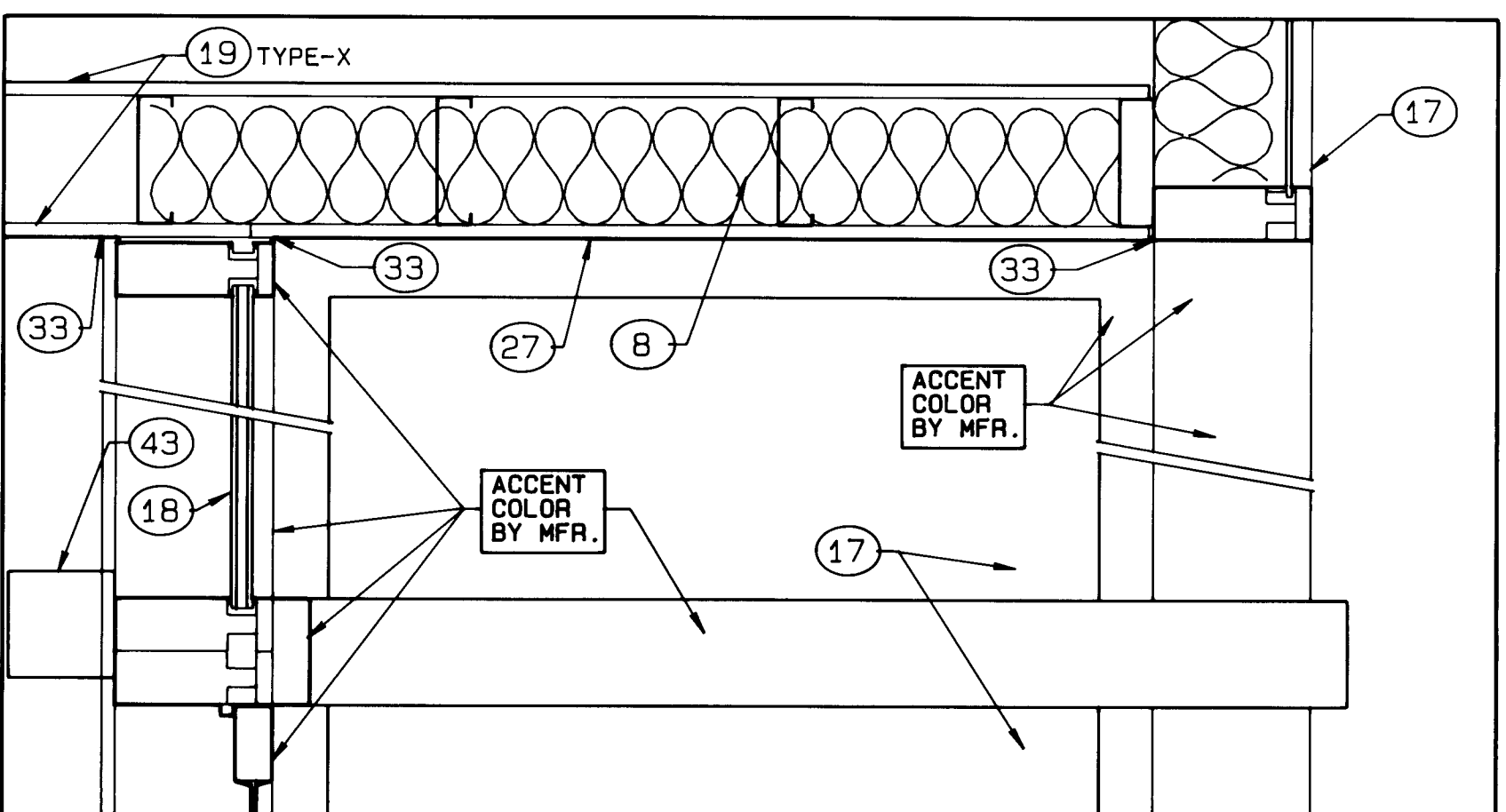
7 NOT USED
A3.3



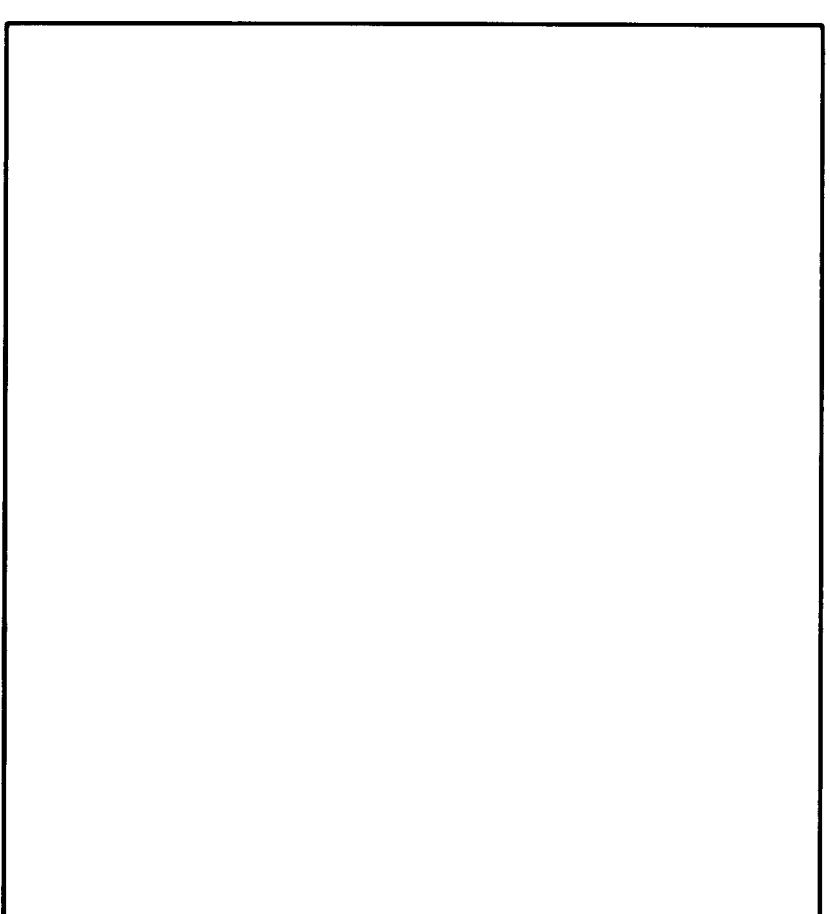
16 TYP. DOOR JAMB
A3.3 1 1/2"=1'-0" (HEAD SIM.)



15 PARTIAL ELEVATION
A3.3 1/4"=1'-0"



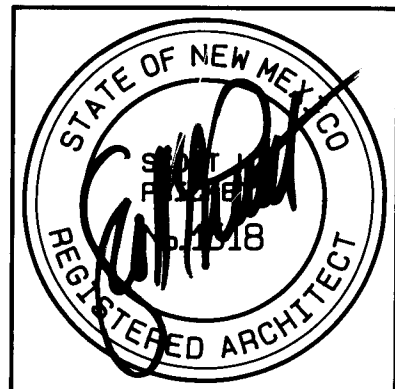
14 MAIN ENTRY SOFFIT SECTION
A3.3 1 1/2"=1'-0"



13 NOT USED
A3.3

KEYED NOTES

- 1" INSULATING FINISH SYSTEM OVER 1/2" GYPSUM SHEATHING
- MEMBRANE ROOFING OVER INSULATION BOARD ON STEEL DECK
- STEEL JOIST
- STEEL BEAM
- NOT USED
- STEEL WIDE-FLANGE COLUMN
- STEEL TUBE BEAM
- 6" METAL STUDS
- 3 5/8" METAL STUDS
- 2 1/2" METAL STUDS
- 1 5/8" METAL CHANNEL
- RAISED ACCESS FLOORING
- SUSPENDED LAY-IN CEILING
- ALUMINUM CURTAIN WALL FRAMING SYSTEM
- HOLLOW METAL FRAME
- BATT INSULATION
- SPANDREL GLASS
- INSULATING VISION GLASS
- 5/8" GYP. BD. (TYPE-X WHERE REQUIRED FOR FIRE RATING - SEE PLAN)
- 8" METAL STUDS
- MEMBRANE ROOFING OVER INSULATION BOARD ON 3/4" PLYWOOD SHEATHING
- SHEET METAL CAP FLASHING
- 1/4" WIRE GLASS IN HOLLOW METAL FRAME
- ALIGN EDE OF WALL WITH BREAK IN CEILING PLANE ABOVE
- CONCRETE STEM WALL
- 6" WIDE X 4" DEEP CONC. MOW STRIP SEE 1/C2.1
- 5/8" M.R. GYP. BD.
- METAL CORNER TRIM
- MODIFIED ALUMINUM CURTAIN WALL FRAME
- 1" X 1" SQUARE ALUMINUM TUBE BY CURTAIN WALL MANUFACTURER
- STRUCTURAL SILICONE SEALANT
- ALUMINUM EXTENDER CAP
- SEALANT
- WATER SEALANT BY INSULATING FINISH SYSTEM MFR.
- 3/4" CDX PLYWOOD
- ELECTRICAL EQUIPMENT
- LOUVER
- 1" RIGID PERIMETER INSULATION
- WATERPROOF MEMBRANE
- NOTCH INSULATION TO FORM DRIP EDGE
- STL. PLATE - SEE STRUCTURAL
- RECESSED PUSHBUTTON FOR AUTOMATIC DOOR OPERATION
- AUTOMATIC DOOR OPENER
- HORIZONTAL BLINDS



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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED DATE
[Signature] 5/24/87

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
CURTAIN WALL
DETAILS

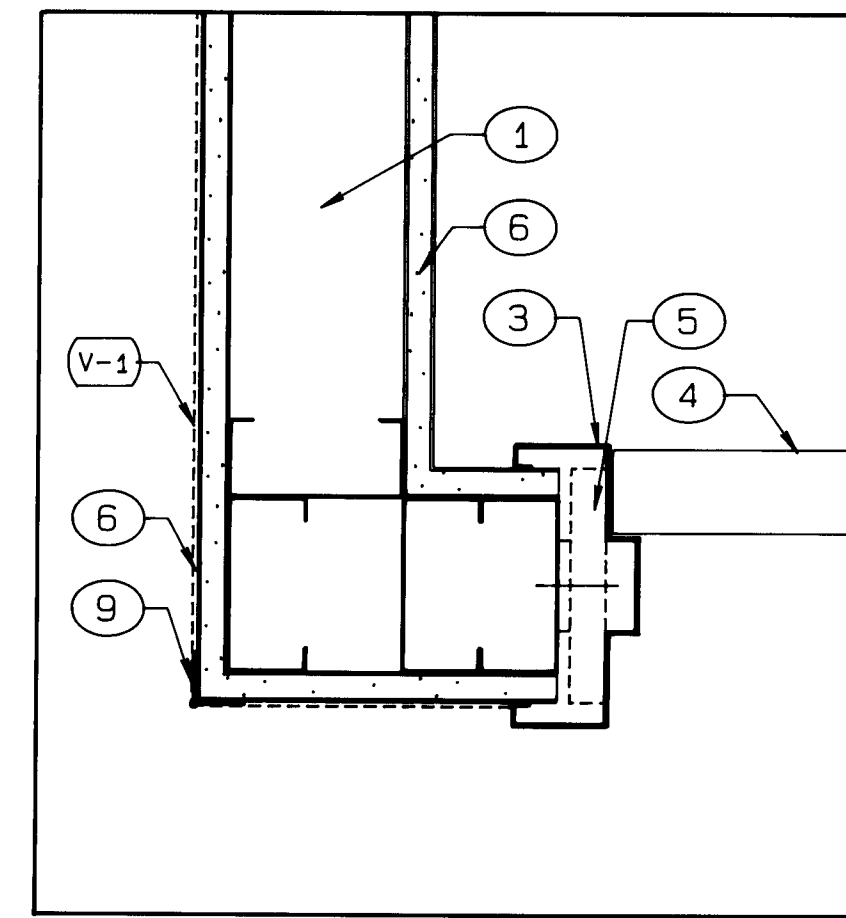
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A3.3

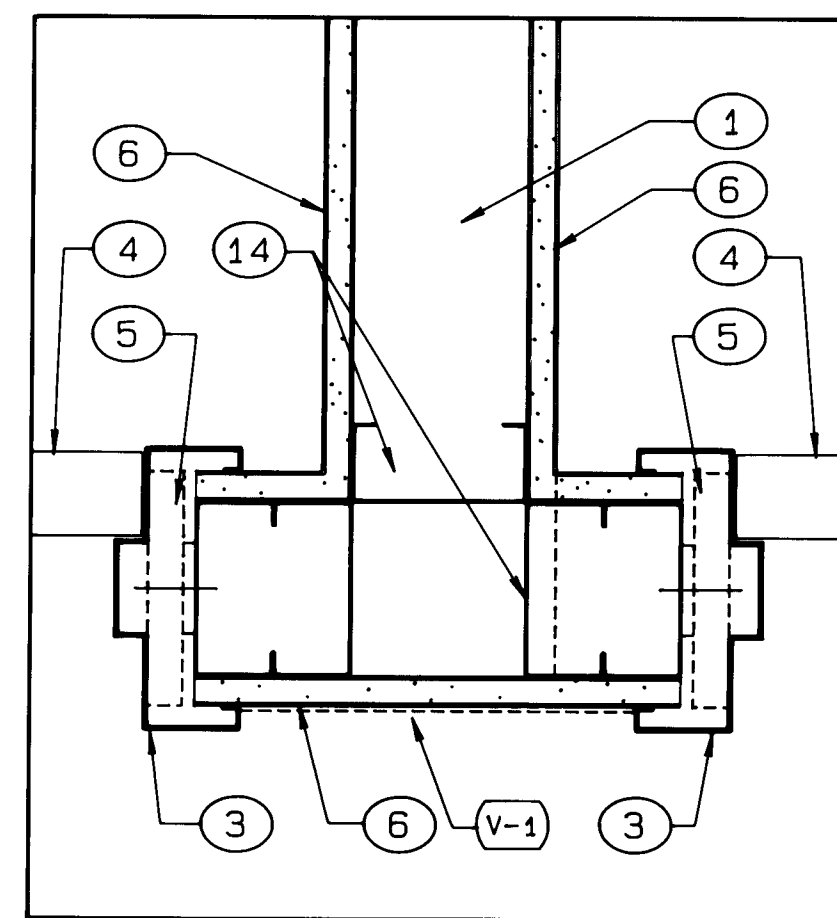
SHEET 17 OF 41

26 31321989

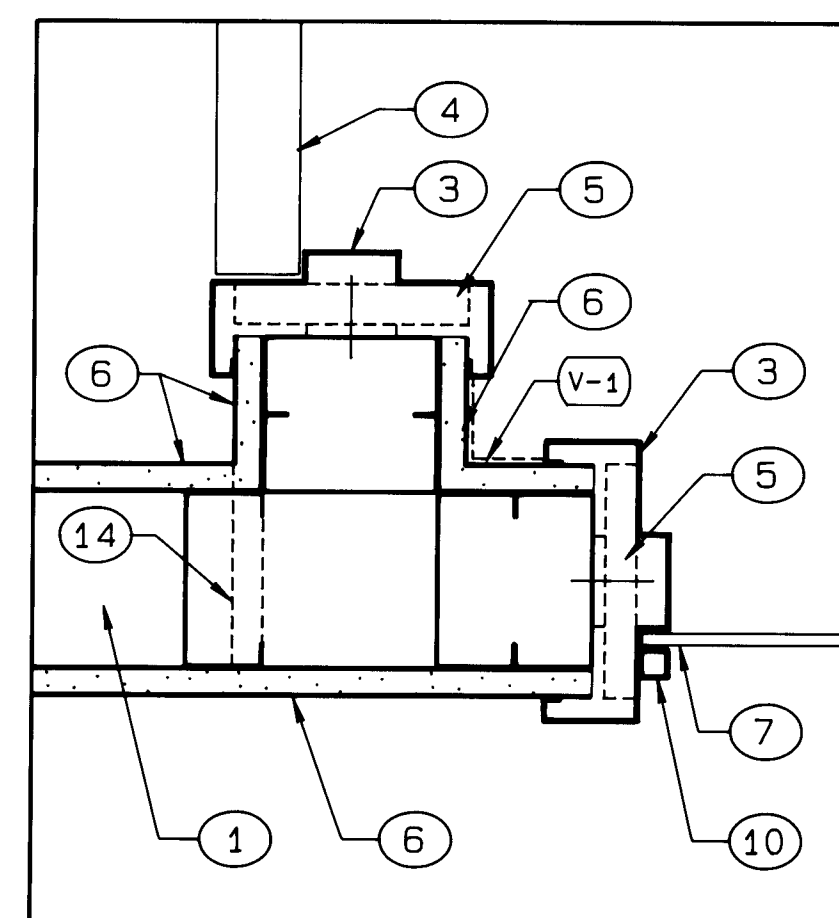
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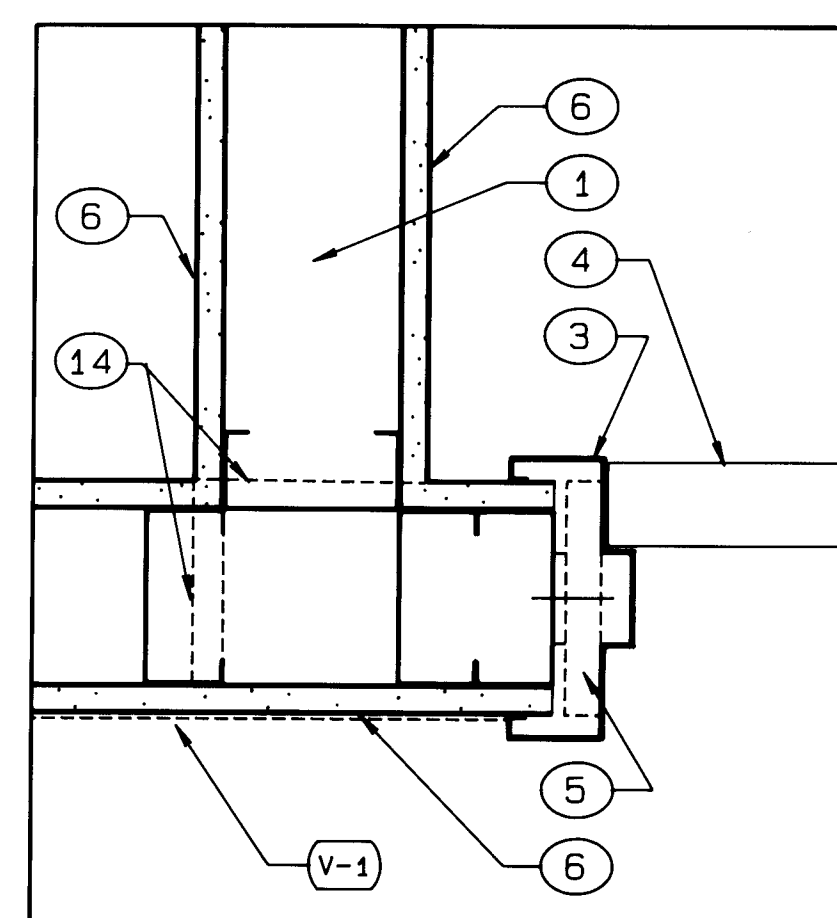
6 JAMB
3"=1'-0"



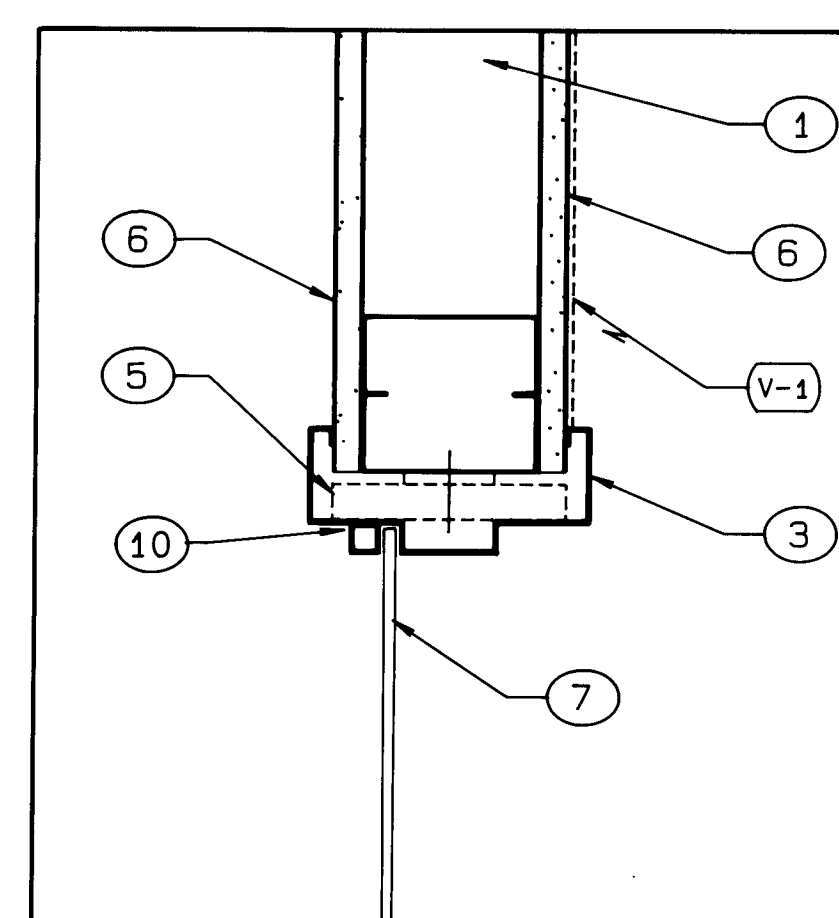
5 JAMB
3"=1'-0"



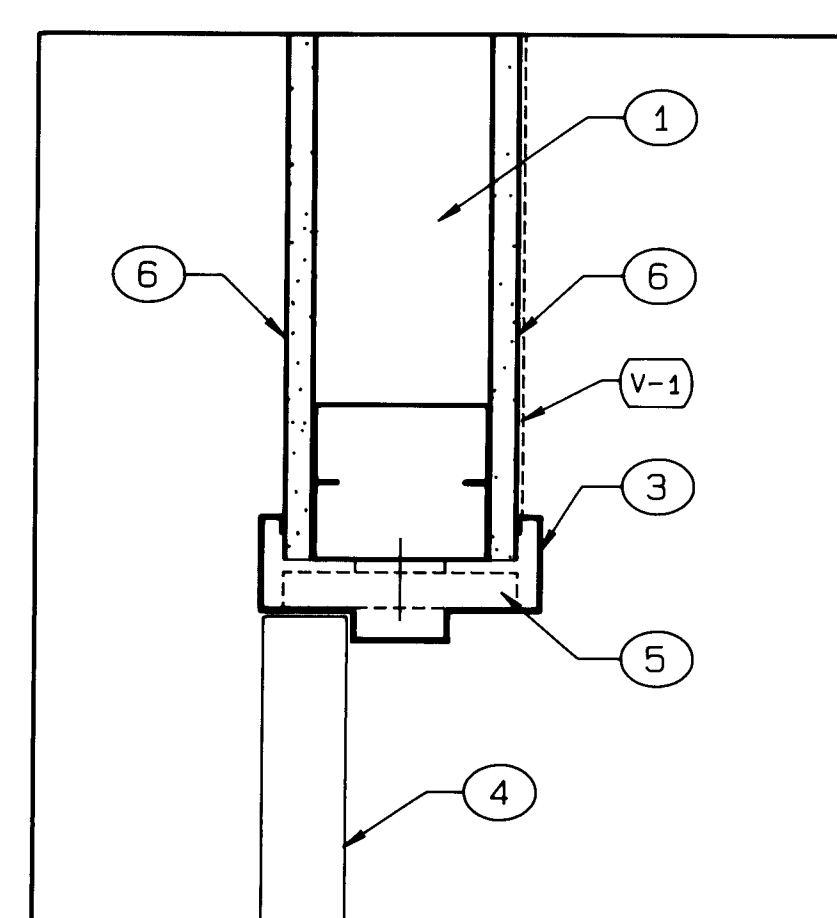
4 JAMB
3"=1'-0"



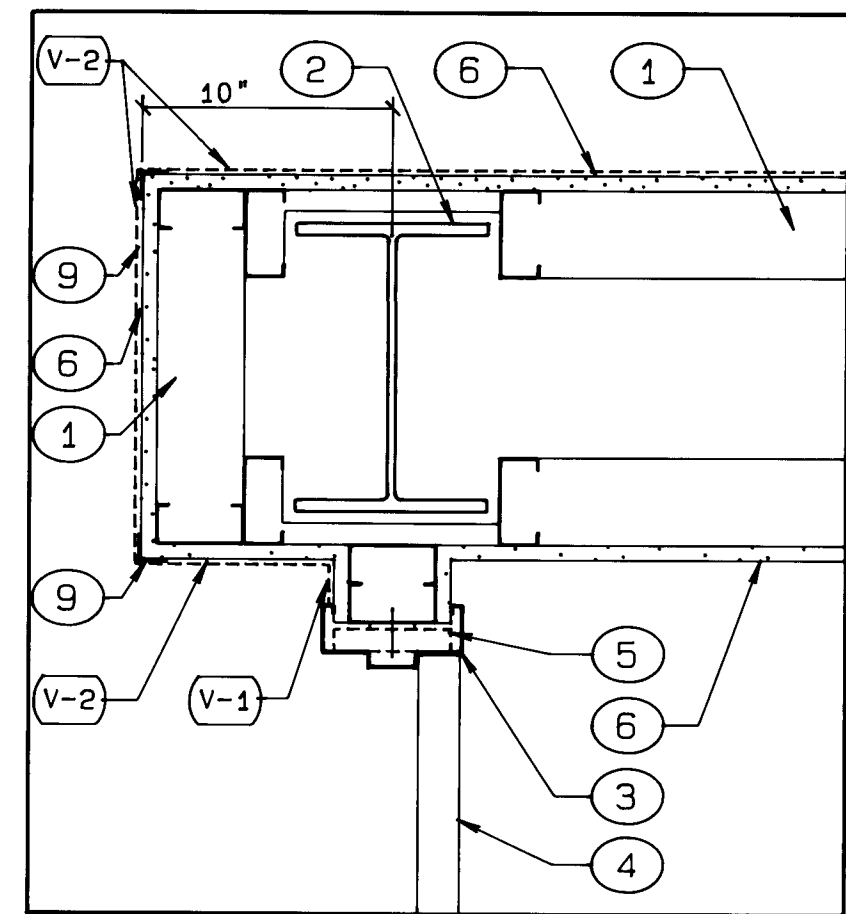
3 JAMB
3"=1'-0"



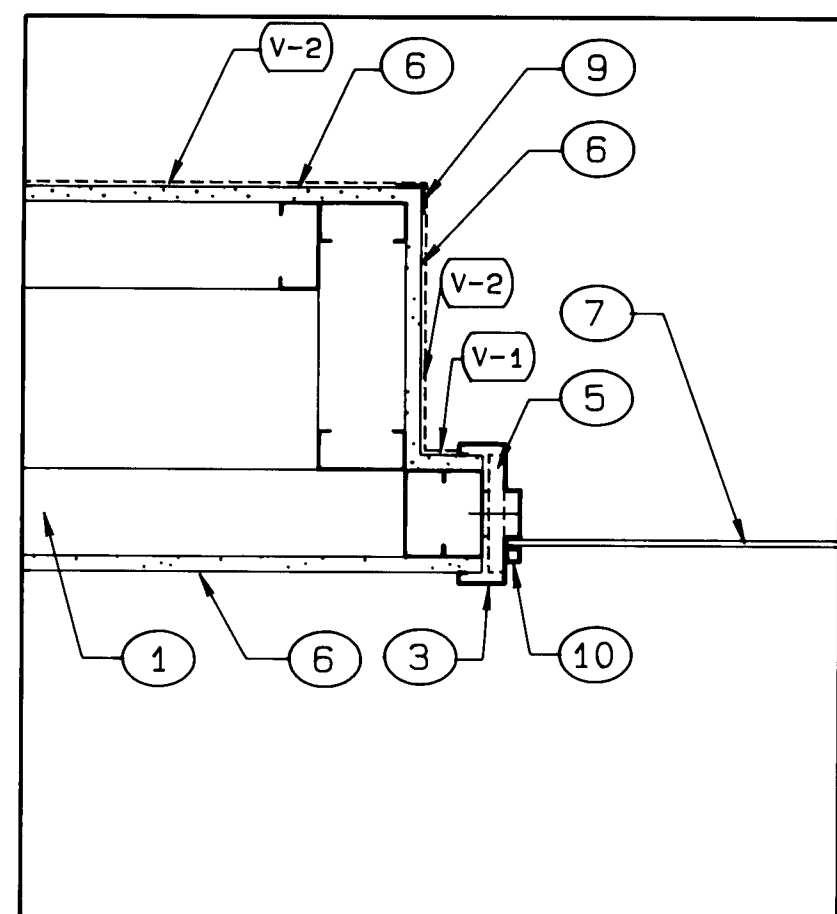
2 JAMB (HEAD SIM.)
3"=1'-0"



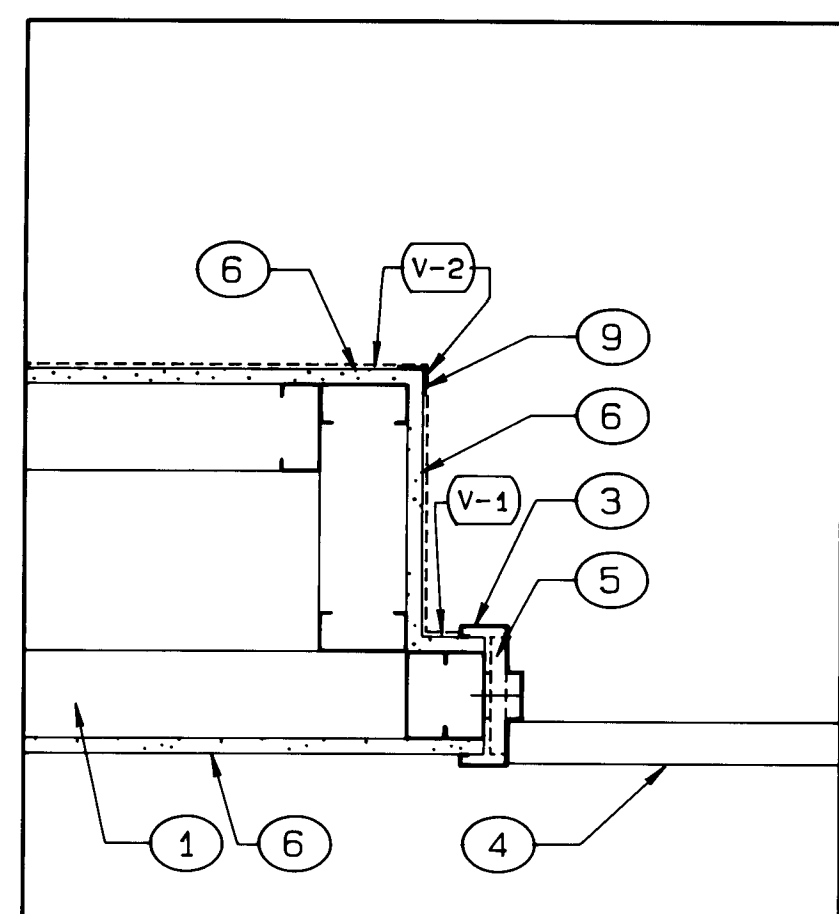
1 JAMB (HEAD SIM.)
3"=1'-0"



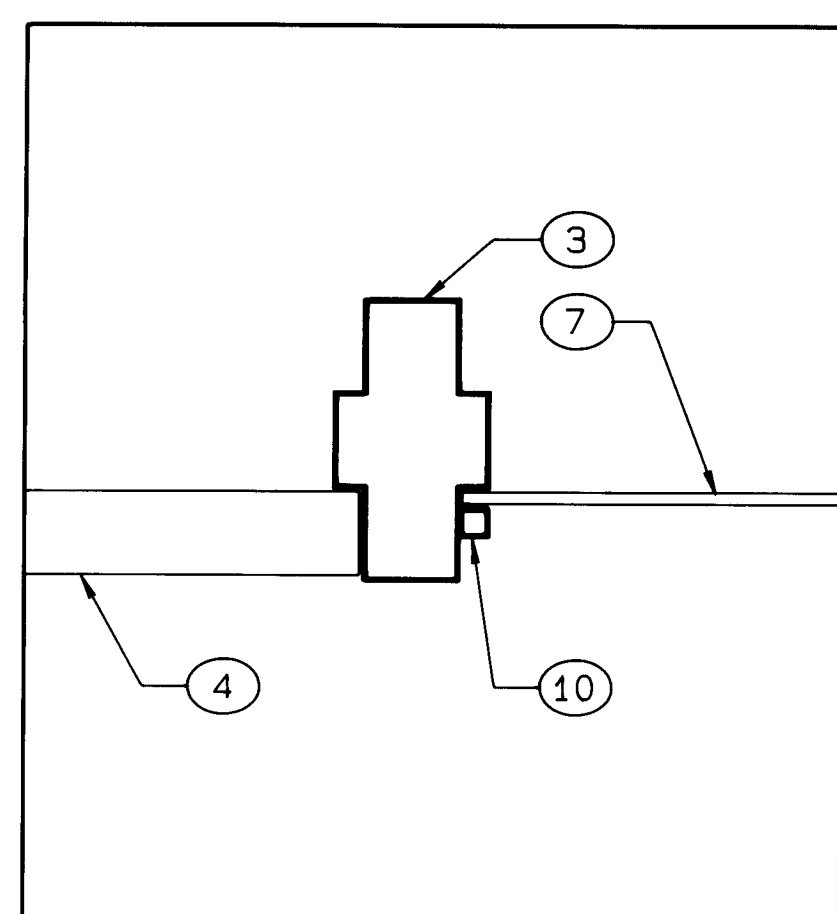
12 JAMB
1 1/2"=1'-0"



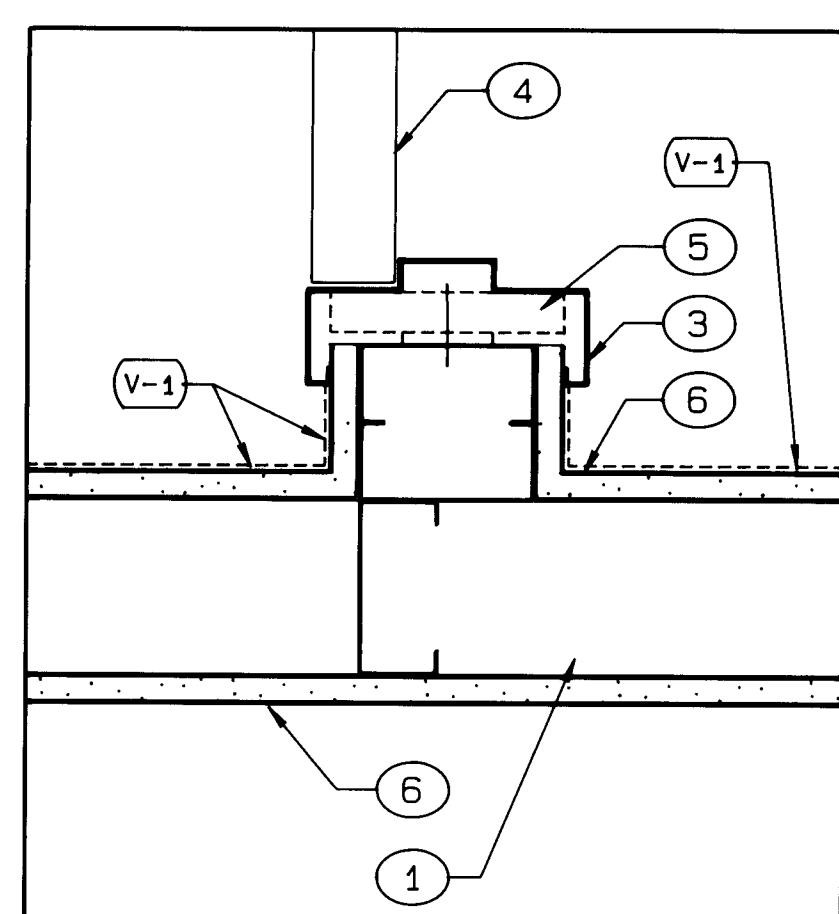
11 JAMB
1 1/2"=1'-0"



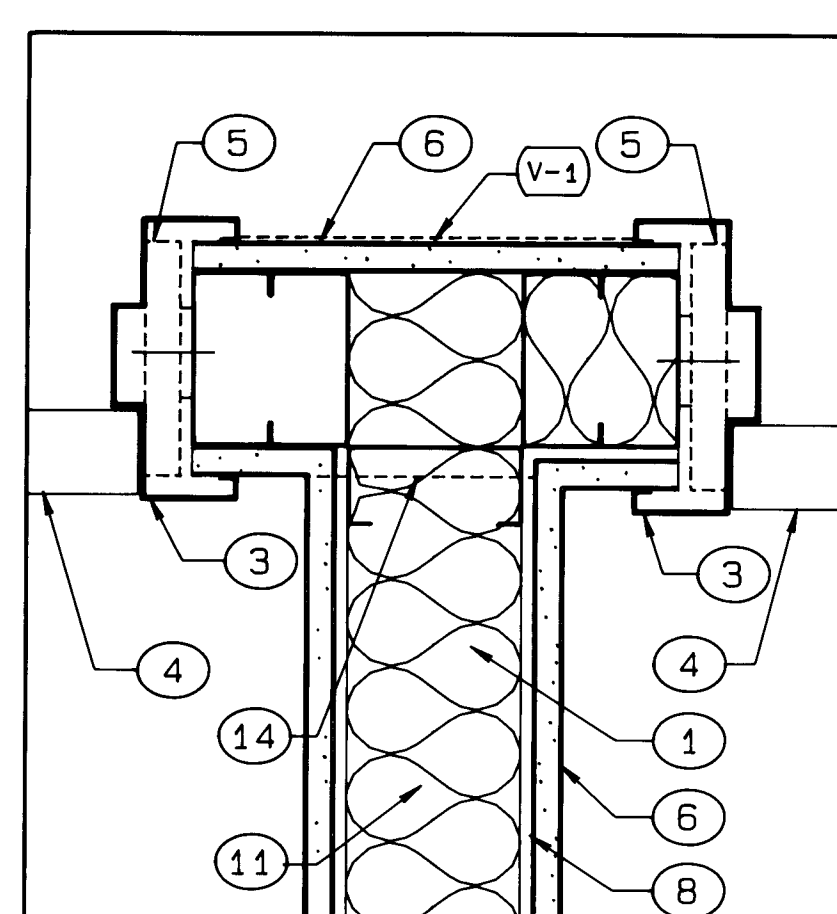
10 JAMB
1 1/2"=1'-0"



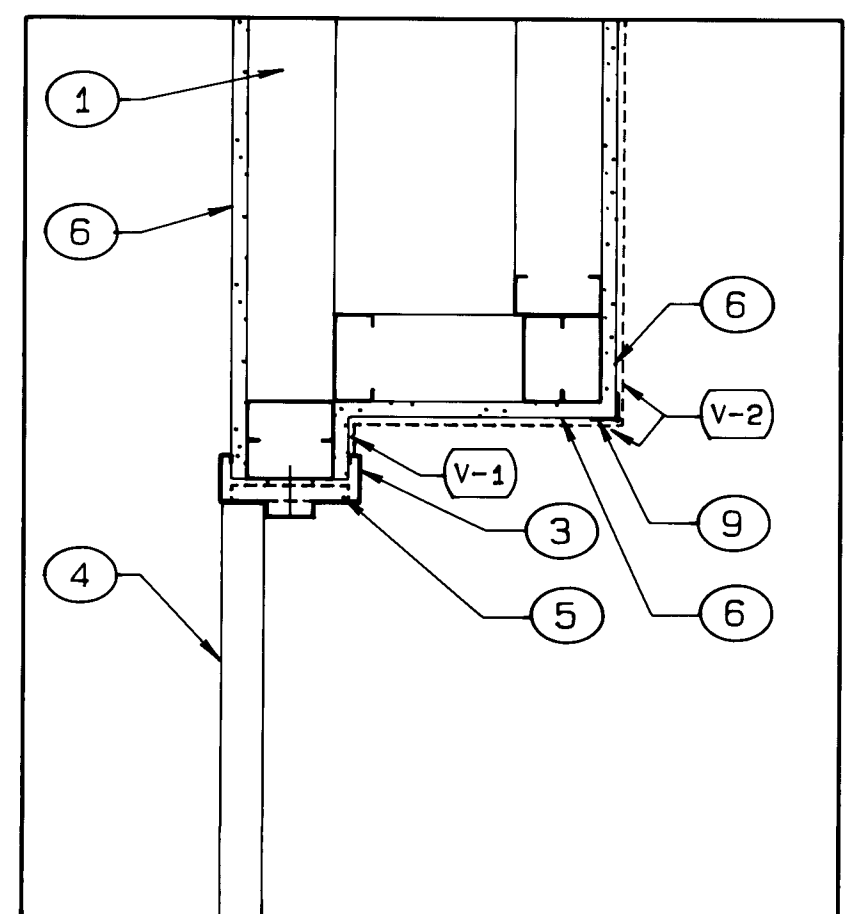
9 JAMB
3"=1'-0"



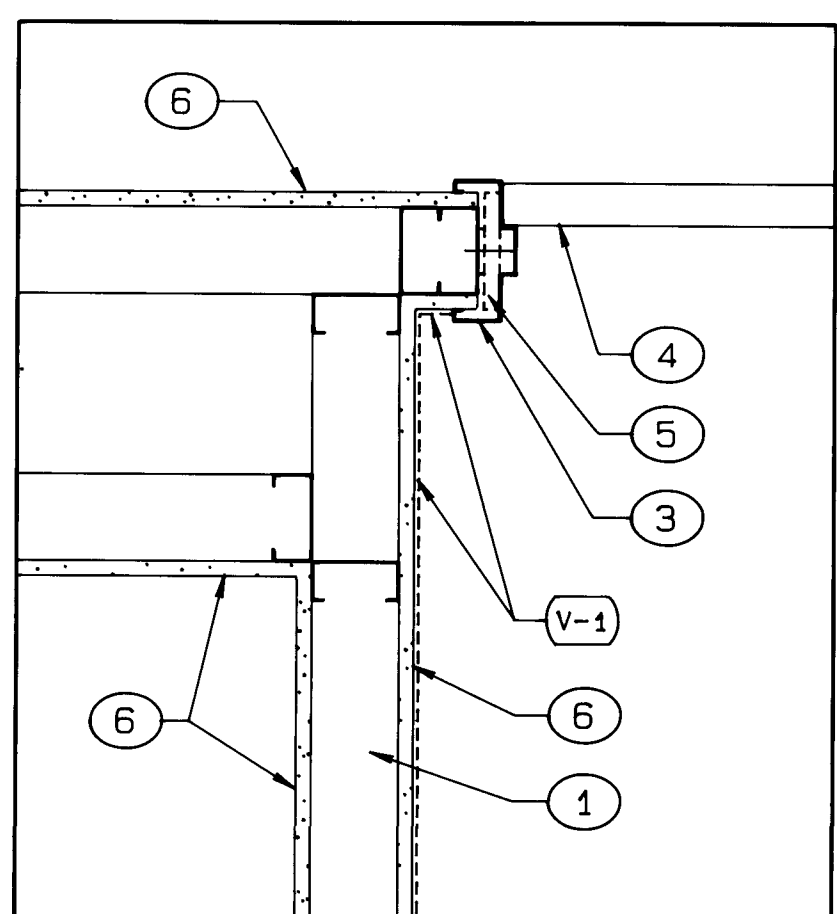
8 JAMB
3"=1'-0"



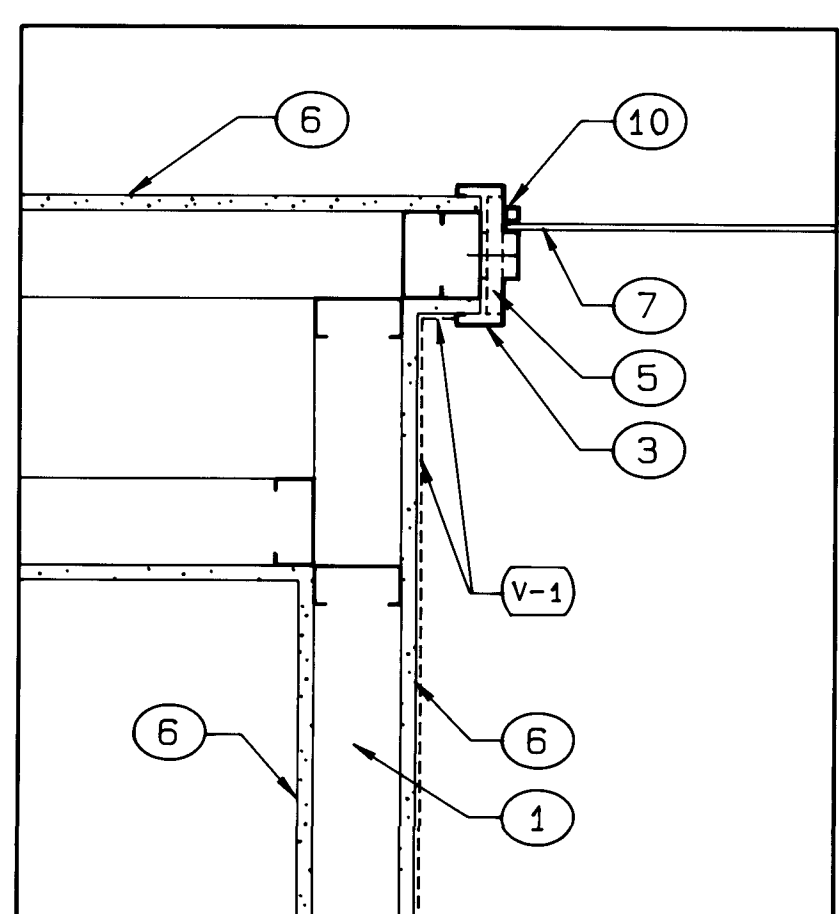
7 JAMB
3"=1'-0"



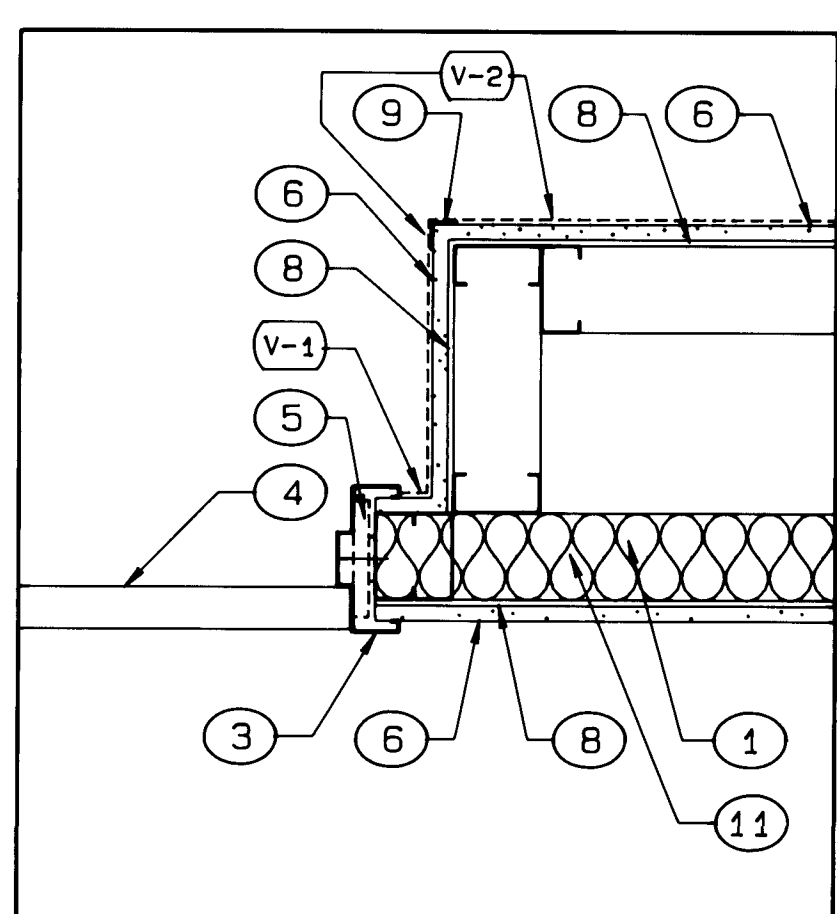
18 HEAD
1 1/2"=1'-0"



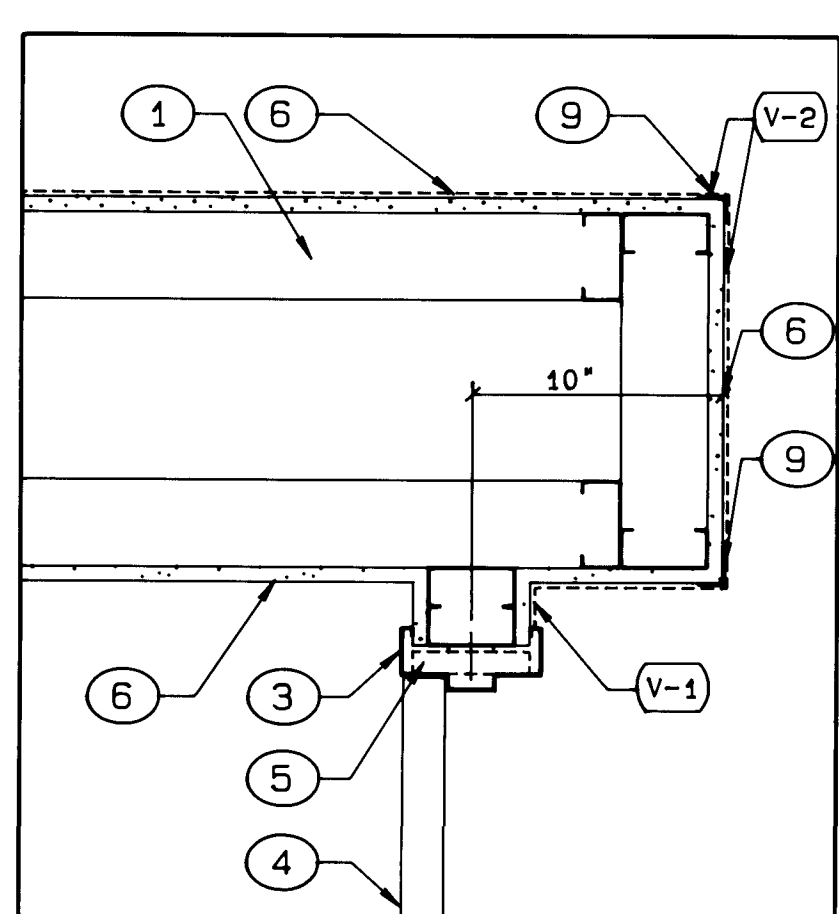
17 JAMB
1 1/2"=1'-0"



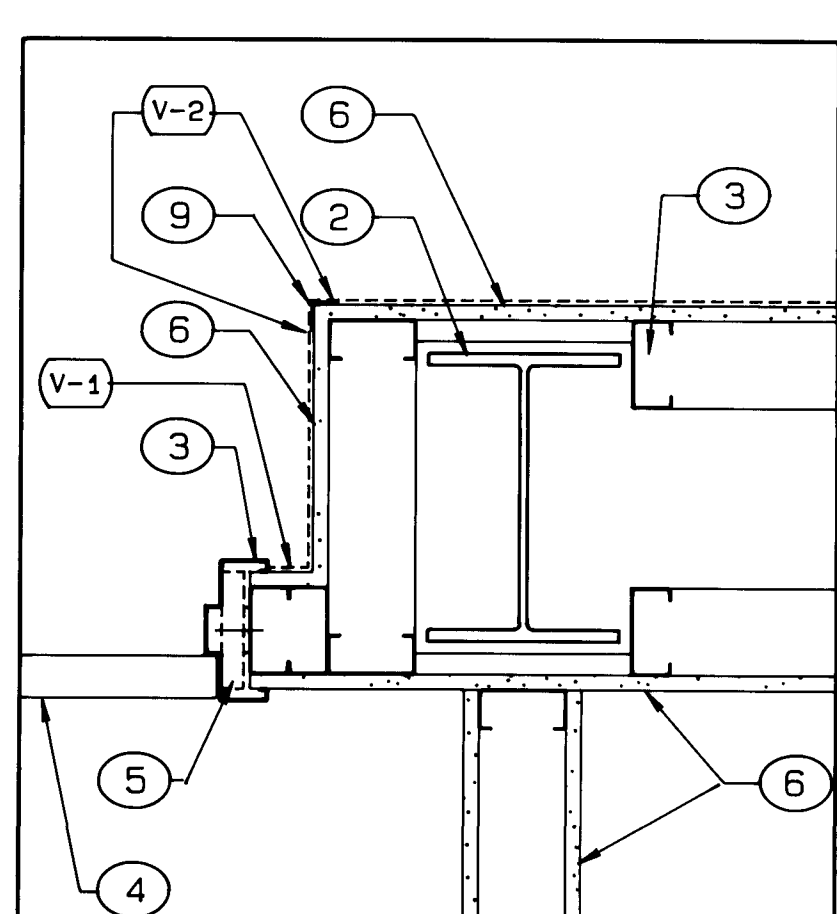
16 JAMB
1 1/2"=1'-0"



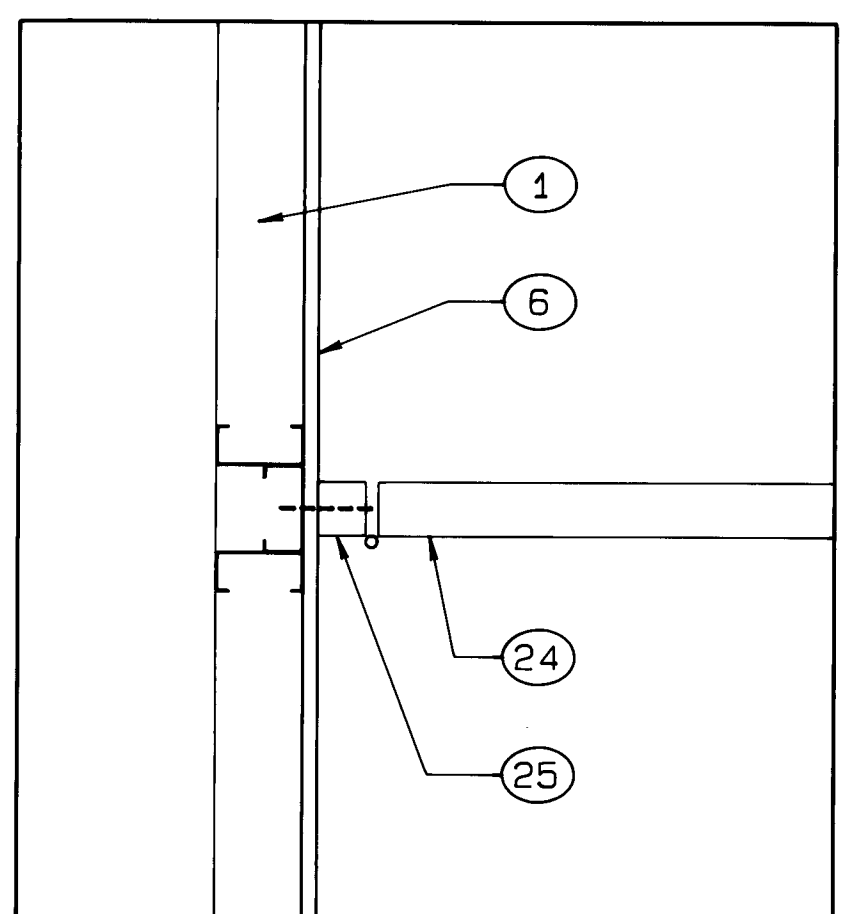
15 JAMB
1 1/2"=1'-0"



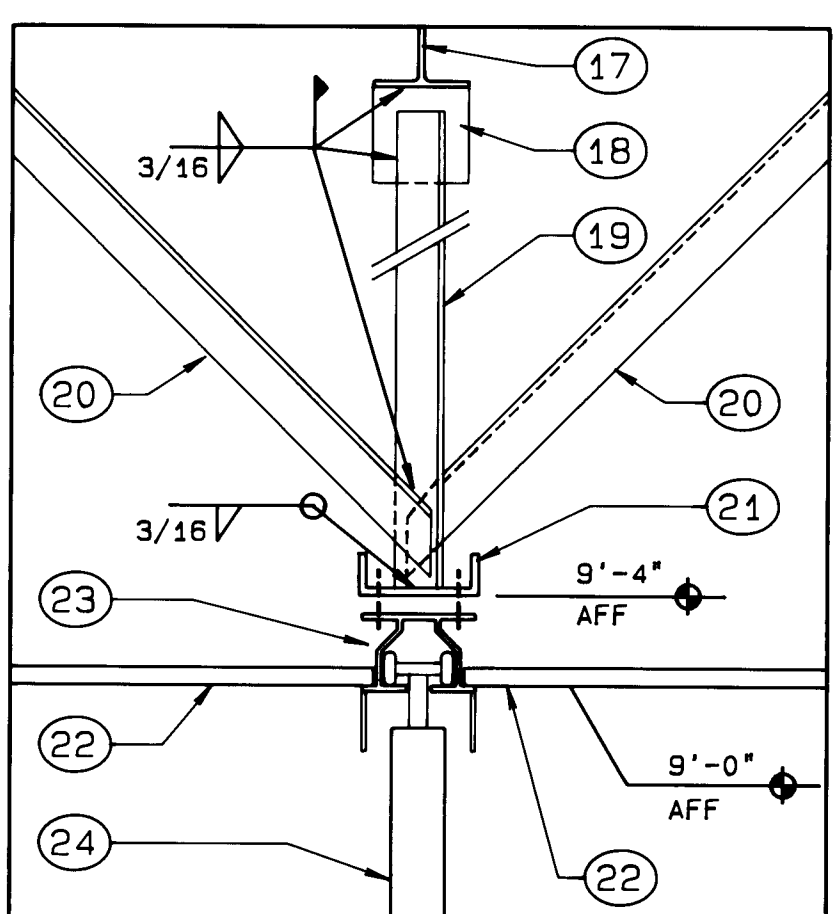
14 JAMB
1 1/2"=1'-0"



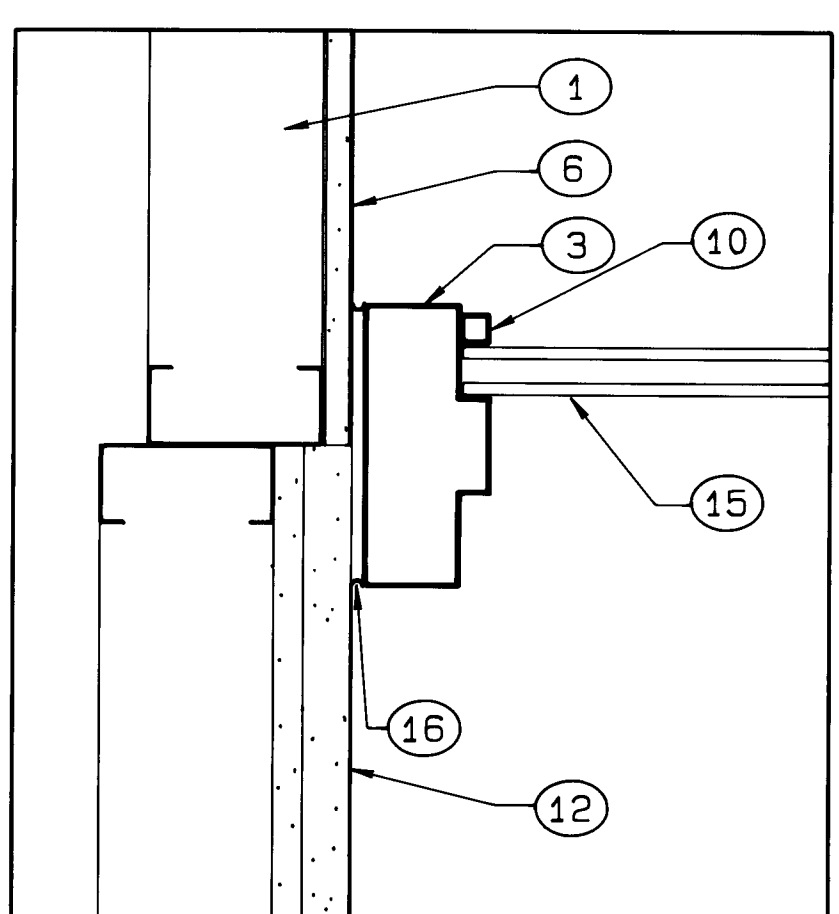
13 JAMB
1 1/2"=1'-0"



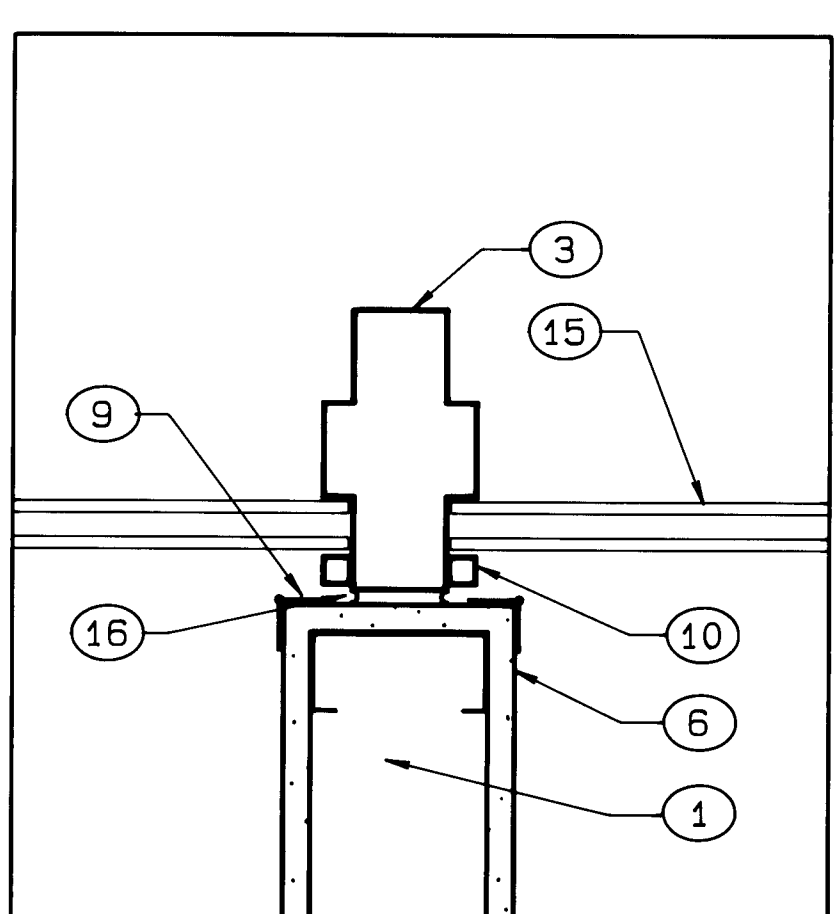
24 FOLDING DOOR JAMB
1 1/2"=1'-0"



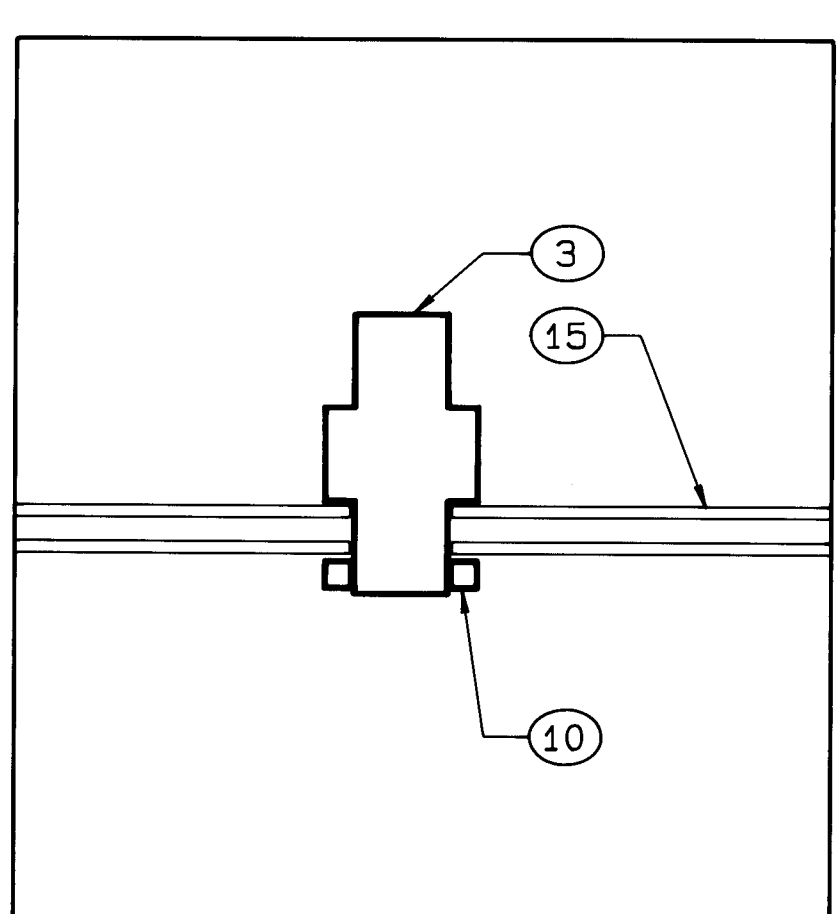
23 FOLDING DOOR HEAD
1 1/2"=1'-0"



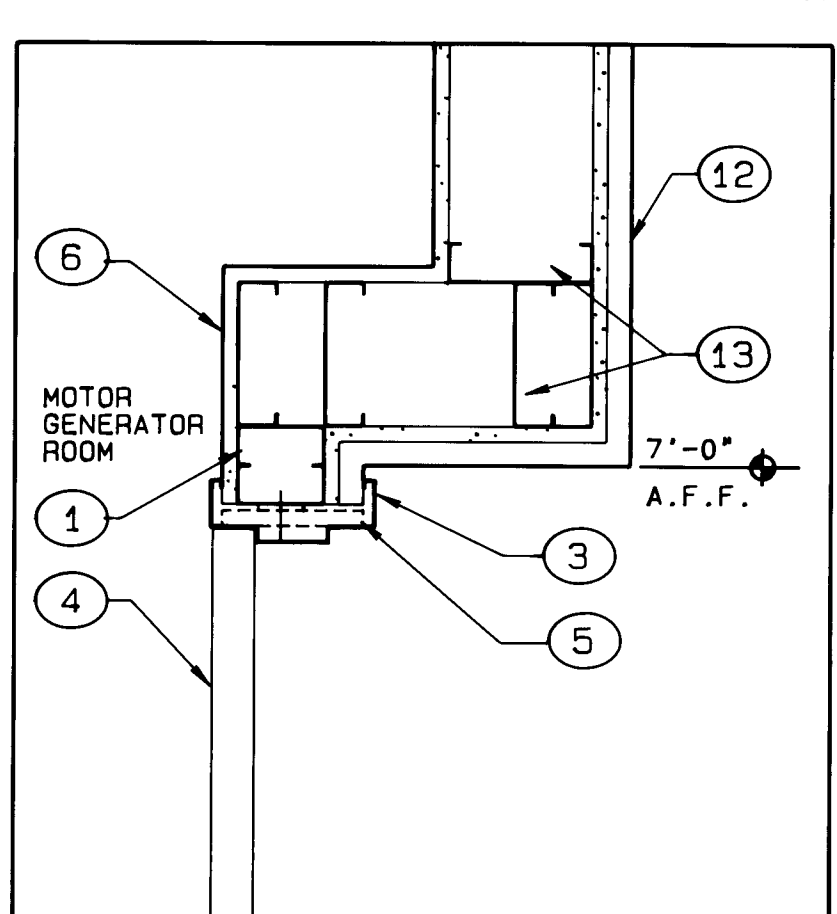
22 JAMB
3"=1'-0"



21 JAMB @ PARTITION
3"=1'-0"



20 JAMB
3"=1'-0"



19 HEAD (JAMB SIM.)
1 1/2"=1'-0"

KEYED NOTES

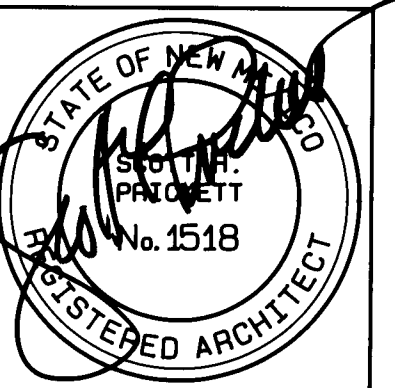
- 1 3 5/8" MTL. STUDS @ 16" O.C.
- 2 STRUCTURAL METAL COLUMN
- 3 HOLLOW METAL FRAME
- 4 DOOR
- 5 DRYWALL TYPE JAMB ANCHORS-2 PER JAMB & NONE @ HEAD
- 6 GYP. BD. (TYPE - X WHERE REQUIRED FOR FIRE RATING-SEE PLAN)
- 7 1/4" WIRE GLASS
- 8 1/4" SOUND BOARD
- 9 CORNER BEAD
- 10 GLAZING STOP
- 11 BATT INSULATION
- 12 EXTERIOR FINISH INSULATION SYSTEM OVER GYPSUM SHEATHING
- 13 6" METAL STUDS @ 16" O.C.
- 14 GYP. BD. TO BE CONTINUOUS WHERE REQUIRED FOR FIRE RATING
- 15 INSULATING GLASS
- 16 SEALANT
- 17 STRUCTURE ABOVE
- 18 1/4" X 4" X 4" STL. PLATE TYP. AT EACH ANGLE.
- 19 2" X 2" X 1/4" STL. ANGLE AT 4'-0" O.C.
- 20 2" X 2" X 1/4" STL. ANGLE AT 4'-0" O.C. WELD TOP END TO TOP CHORD OF NEAREST JOIST
- 21 5 X 6.7 STL. CHANNEL CONTINUOUS
- 22 CEILING TILE
- 23 PARTITION TRACK BOLTED TO CHANNEL AS REQUIRED BY MANUFACTURER.
- 24 MOVEABLE PARTITION
- 25 JAMB BY MANUFACTURER

GENERAL NOTES

1. LOCATIONS OF TWO TYPES OF VINYL ARE CALLED OUT IN THESE DRAWINGS AS FOLLOWS:

V-1 VINYL FABRIC #1 WHERE APPLICABLE
V-2 VINYL FABRIC #2 WHERE APPLICABLE

NOTE: THESE DESIGNATIONS APPLY ONLY IF VINYL FABRIC IS CALLED FOR BY THE FINISH SCHEDULE
2. REFER TO WALL SECTIONS FOR ADDITIONAL LOCATIONS OF BATT INSULATION
3. VAPOR BARRIER IS NOT SHOWN ON THESE DETAILS, REFER TO PLAN FOR LOCATIONS



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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
INTERIOR
DOOR DETAILS
SHEET

A3.2

SHEET 16 OF 41

26 3/32/88

3132

#	NAME	FLOOR						BASE						WALLS						CEILING						REMARKS											
		CARPET	ACCESS FLOORING-CARPETED ACCESS FLOORING-PLAS. LAM.	VINYL TILE	CERAMIC TILE	CONCRETE	RECESSED FLOOR MAT-SEE 4/A3.1			2 1/2" VINYL-TOELESS	2 1/2" VINYL-COVE	4" CERAMIC TILE					GYP. BD. (PAINTED)	CERAMIC TILE	ACOUSTICAL WALL PANELS	VINYL FABRIC ON GYP. BD.									GYP. BD. (PAINTED)	ACOUSTIC TILE						CEILING HT.	
100	ENTRY VESTIBULE						●			●							●	*	●										9'0"						9'0"	* EXCLUDE VINYL FABRIC @ PLANE "C" ONLY	
101	PILOT BRIEFING AREA	●							●								●		●										9'0"						9'0"		
102	AT SUPERVISOR	●							●								●												9'0"						9'0"		
103	TRAINING SPECIALIST	●							●								●												9'0"						9'0"		
104	TRAINING LABORATORY	●							●								●		●	*									9'0"						9'0"	* ACOUSTIC WALL PANELS @ EAST WALL ONLY- SEE ELEVATIONS SHT. AB.2	
105	OPERATIONS ROOM	●							●								●		●										8'0"						8'0"	SEE ELEVATIONS SHT. AB.2	
106	STORAGE	●							●								●												9'0"						9'0"		
107	BROADCAST ROOM	●							●								●		●										8'0"						8'0"	SEE ELEVATIONS SHT. AB.2	
108	RECORDER	●							●								●		●										8'0"						8'0"	SEE ELEVATIONS SHT. AB.2	
109	STORAGE	●							●								●												8'0"						8'0"		
110	SHOP	●							●								●												8'0"						8'0"		
111	AUTOMATION ROOM	●							●								●		●										8'0"						8'0"	SEE ELEVATIONS SHT. AB.2	
112	TELEPHONE EQUIPMENT		●						●								●												8'0"						8'0"		
113	COMMUNICATIONS ROOM		●						●								●												8'0"						8'0"		
114	WOMEN'S RESTROOM				●				●			●					●		●										8'0"						8'0"		
115	JANITOR'S CLOSET			●					●								●												8'0"						8'0"		
116	MEN'S RESTROOM				●				●			●					●												8'0"						8'0"		
117	CORRIDOR	●							●								●		●										VARIES						VARIES	GYP. BD. @ SLOPED CEILING	
118	LOCKER & BREAK ROOM			●					●								●		●										VARIES						VARIES	GYP. BD. @ SLOPED CEILING	
119	CORRIDOR	●							●								●		●										VARIES						VARIES	GYP. BD. @ SLOPED CEILING	
120	VESTIBULE					●			●	</																											



DOOR						FRAME						FIRE RATING	HARDWARE SET	REMARKS		
#	PAIR	SIZE			MATERIAL	TYPE	MATERIAL	TYPE	THROAT	DETAILS						
		WIDTH	HEIGHT	THICK						HEAD	JAMB				JAMB	THRES.
1	●	3'0"	6'8"	1 3/4	AL	A	HM	-	-	14/A3.3	1/A3.3	2/A3.3	1/A3.1	-	1	CUSTOM DOOR COLOR BY MFR.
2		3'0"	6'8"	1 3/4	WD	C	AL	D	4 7/8	1/A3.2	6/A3.2	1/A3.2	2/A3.1	-	20 MIN.	2
3		3'0"	6'8"	1 3/4	WD	C	HM	E	4 7/8	18/A3.2	11/A3.2	10/A3.2	3/A3.1	-	20 MIN.	2
4		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	1/A3.2	3/A3.2	2/A3.2	-	-	20 MIN.	3
5		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	1/A3.2	4/A3.2	2/A3.2	-	-	20 MIN.	3
6		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	1/A3.2	4/A3.2	5/A3.2	-	-	20 MIN.	3
7		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	1/A3.2	2/A3.2	5/A3.2	-	-	20 MIN.	3
8		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	12/A3.2	-	-	20 MIN.	3
9		3'0"	6'8"	1 3/4	WD	C	HM	A	4 7/8	1/A3.2	6/A3.2	2/A3.2	-	-	20 MIN.	5
10		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	18/A3.2	11/A3.2	5/A3.2	-	-	20 MIN.	3
11		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	18/A3.2	10/A3.2	5/A3.2	-	-	20 MIN.	3
12		3'0"	6'8"	1 3/4	WD	C	HM	A	4 7/8	1/A3.2	6/A3.2	2/A3.2	-	-	20 MIN.	5
13		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	18/A3.2	11/A3.2	13/A3.2	-	-	20 MIN.	3
14		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	1/A3.2	14/A3.2	4/A3.2 SIN	-	-	20 MIN.	3
15		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	1/A3.2	2/A3.2	4/A3.2 SIN	-	-	20 MIN.	3
16		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	18/A3.2	10/A3.2	7/A3.2	-	-	20 MIN.	3
17		3'6"	6'8"	1 3/4	WD	B	HM	B	5 1/8	18/A3.2	15/A3.2	7/A3.2	-	-	20 MIN.	3
18	●	3'0"	6'8"	1 3/4	HM	D	HM	C	5 3/4	18/A3.2	18/A3.2	18/A3.2	-	-	7	
19		3'0"	6'8"	1 3/4	HM	C	HM	A	4 7/8	1/A3.2	14/A3.2 SIN	8/A3.2	2/A3.1 SIN	-	8	
20		3'0"	6'8"	1 3/4	AL	A	AL	-	-	18/A3.3	16/A3.3	4/A3.3	1/A3.1 SIN	-	1	CUSTOM DOOR COLOR BY MFR.
21	●	2'4"	6'8"	1 3/4	AL	E	AL	-	-	18/A3.3 SIN	16/A3.3 SIN	16/A3.3 SIN	5/A3.1	-	1	STANDARD DOOR FINISH BY MFR.
22		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	5/A3.2	6/A3.1	-	20 MIN.	3
23		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	5/A3.2	6/A3.1	-	20 MIN.	9
24		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	6/A3.2	-	-	20 MIN.	5
25		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	1/A3.2	-	-	20 MIN.	10
26		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	6/A3.2	1/A3.2	-	-	20 MIN.	5
27		3'0"	6'8"	1 3/4	WD	C	HM	A	4 7/8	18/A3.2	17/A3.2	16/A3.2	6/A3.1 SIN	-	20 MIN.	5
28		3'6"	6'8"	1 3/4	WD	B	HM	B	4 7/8	18/A3.2	17/A3.2	10/A3.2	-	-	11	
29		3'6"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	3/A3.2	-	-	20 MIN.	4
30		3'6"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	3/A3.2	-	-	11	
31		3'6"	6'8"	1 3/4	WD	C	HM	B	4 7/8	1/A3.2	3/A3.2	14/A3.2 SIN	7/A3.1	-	20 MIN.	9
32	●	3'0"	6'8"	1 3/4	AL	A	AL	-	-	18/A3.3 SIN	16/A3.3	16/A3.3	5/A3.1 SIN	-	1	CUSTOM DOOR COLOR BY MFR.
33		3'6"	6'8"	1 3/4	WD	C	HM	B	4 7/8	1/A3.2	1/A3.2	5/A3.2	7/A3.1	-	20 MIN.	2
34		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	5/A3.2	-	-	20 MIN.	4
35		3'6"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	5/A3.2	-	-	11	
36		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	5/A3.2	-	-	4	
37		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	3/A3.2	-	-	4	
38		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	8/A3.2	-	-	4	
39		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	1/A3.2	5/A3.2	2/A3.2	-	-	4	
40		3'0"	6'8"	1 3/4	WD	B	HM	A	4 7/8	1/A3.2	5/A3.2	4/A3.2 SIN	-	-	4	
41		3'0"	6'8"	1 3/4	WD	B	HM	B	4 7/8	1/A3.2	1/A3.2	4/A3.2 SIN	-	-	6	

ABBREVIATIONS: AL=ALUMINUM
HM=HOLLOW METAL
WD=WOOD

The diagram illustrates five different window frame cross-sections, labeled Type A through Type E. Each type shows the frame, glass, and insulation details with dimensions.

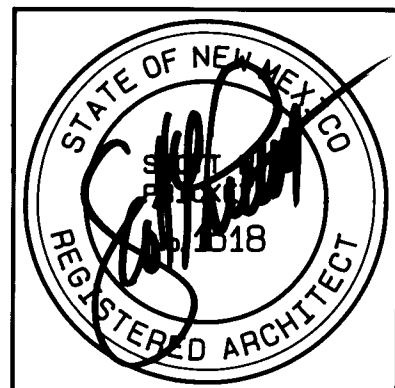
- TYPE A:** ALUMINUM. Shows a frame with a glass pane. Dimensions: 3 1/2" (top and bottom frame thickness), 6 1/2" (side frame thickness).
- TYPE B:** S.C. WOOD. Shows a frame with a glass pane. Dimensions: 3 1/2" (top and bottom frame thickness), 6 1/2" (side frame thickness).
- TYPE C:** S.C. WOOD FACTORY ASSEMBLY. Shows a frame with a glass pane. Dimensions: 3 1/2" (top and bottom frame thickness), 6 1/2" (side frame thickness). Includes labels: EQ 20", EQ, GLASS IN MTL. FRAME, INFL. PANEL TO MATCH FRAME.
- TYPE D:** HOLLOW METAL. Shows a frame with a glass pane. Dimensions: 3 1/2" (top and bottom frame thickness), 6 1/2" (side frame thickness).
- TYPE E:** ALUMINUM. Shows a frame with a glass pane. Dimensions: 3 1/2" (top and bottom frame thickness), 6 1/2" (side frame thickness).

GLASS AREA CALCS. FOR DOOR #3	
COMMON WALL AREA: 9'-0" X 9'-7" = 12, 420 SQ. IN.	
MAX. GLASS AREA PER UBC: 25% X 12, 420 = 3, 105 SQ. IN.	
GLASS AREA SHOWN: DOOR 20' X 32" = 640 SQ. IN. SIDE LITE 72' X 34" = 2448 SQ. IN.	
TOTAL	3088 SQ. IN.

Figure 1 illustrates five types of window details (A, B, C, D, E) showing various glazing and framing configurations. The details are labeled as follows:

- TYPE A:** Shows a 1/4" WIRE GLASS panel with a 9/32" hole. Dimensions include 2" and 2'-10".
- TYPE B:** Shows a 2" TYP. dimension.
- TYPE C:** Shows a 2" TYP. dimension.
- TYPE D:** Shows a 1/4" WIRE GLASS panel with a 9/32" hole. Dimensions include 2", 2'-10", 2", 3'-0", and 2".
- TYPE E:** Shows a 1/4" WIRE GLASS panel with a 9/32" hole. Dimensions include 2", 2'-10", 2", 3'-0", and 2".

① CONC. FLOOR SLAB	⑥ HOLLOW METAL FRAME	⑪ VINYL TOELESS BASE	⑫ 3 5/8" MTL. STUDS @ 16"O.C.	⑬ 5/8" GYP.BD.	⑭ 5/8" TYPE-X GYP.BD.	⑮ CARPET	⑯ 3/4" PLYWOOD	⑰ 1" RIGID INSULATION
② MUD MAT FRAME GROUTED SOLID INTO RECESS	⑦ ALUMINUM FRAME	⑧ DOOR	⑨ THRESHOLD (HANDI-CAPPED ACCEPTABLE)	⑩ VINYL COVE BASE				
③ MUD MAT INSERT	④ ACCESS FLOORING	⑤ FLOORING PEDESTAL						



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FLIGHT SERVICE STATION BUILDING

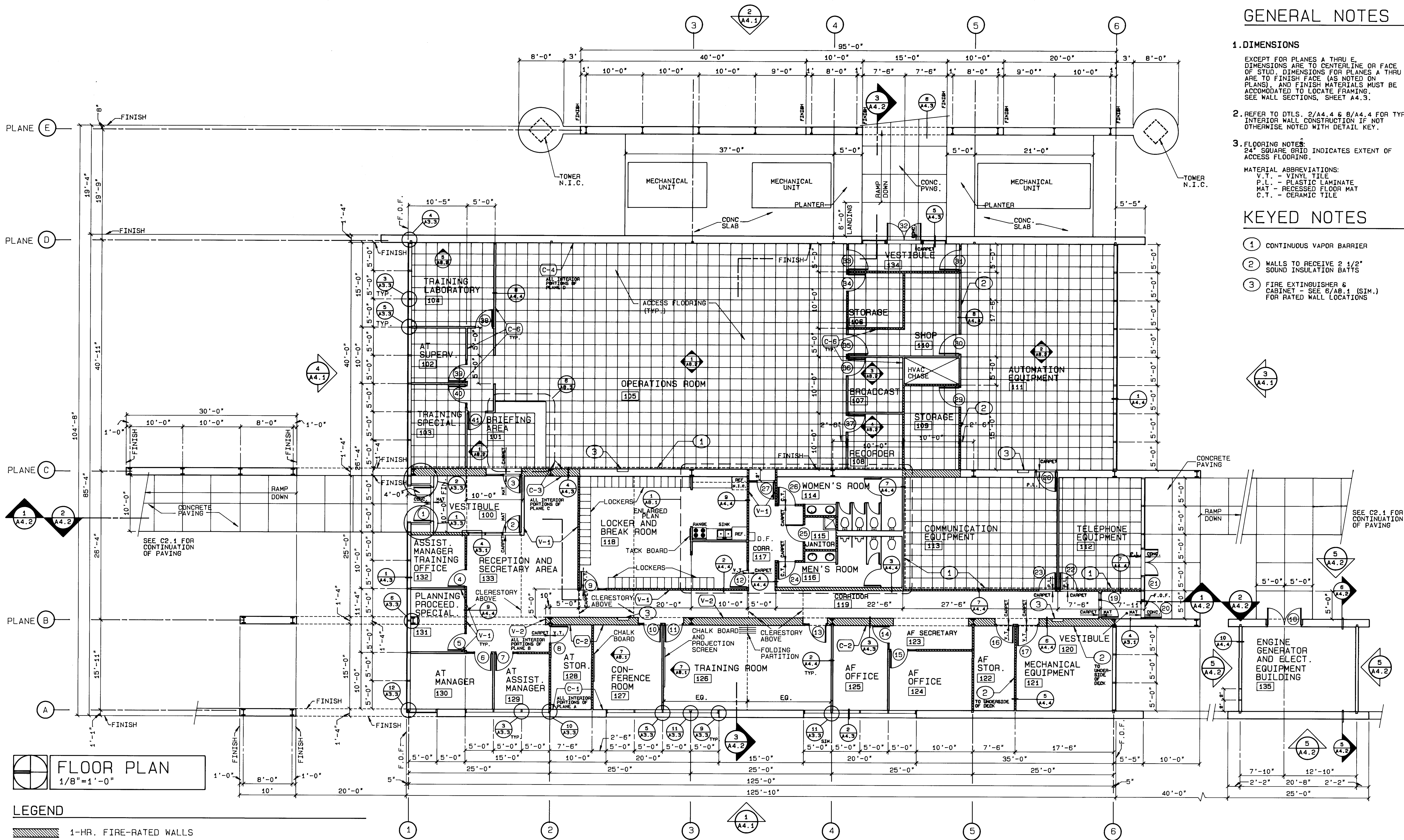
APPROVED 5/28/87 DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
SCHEDULES
& DETAILS
SHEET

A 3.1

SHEET 15 OF 41



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

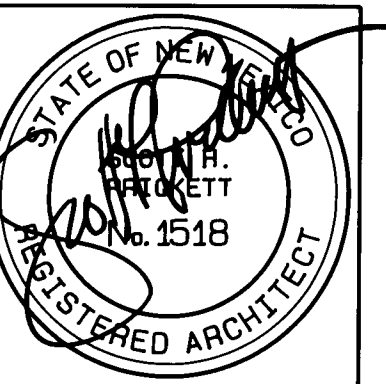
- LEGEND**
- 1-HR. FIRE-RATED WALLS
 - (C-1) PAINT COLOR NUMBER - SEE SPECIFICATIONS FOR COLOR SCHEDULE
 - (V-1) VINYL FABRIC NUMBER - SEE SPECIFICATIONS FOR SCHEDULE. SEE ALSO GENERAL NOTE, SHEET A3.1
 - F.O.S. FACE OF STUD
 - F.O.F. FACE OF CURTAINWALL FRAME

GENERAL NOTES

1. DIMENSIONS
EXCEPT FOR PLANES A THRU E, DIMENSIONS ARE TO CENTERLINE OR FACE OF STUD. DIMENSIONS FOR PLANES A THRU E ARE TO FINISH FACE (AS NOTED ON PLANS), AND FINISH MATERIALS MUST BE ACCOMMODATED TO LOCATE FRAMING. SEE WALL SECTIONS, SHEET A4.3.
2. REFER TO DTLS. 2/A4.4 & 8/A4.4 FOR TYP. INTERIOR WALL CONSTRUCTION IF NOT OTHERWISE NOTED WITH DETAIL KEY.
3. FLOORING NOTES:
24" SQUARE GRID INDICATES EXTENT OF ACCESS FLOORING.
MATERIAL ABBREVIATIONS:
V.T. - VINYL TILE
P.L. - PLASTIC LAMINATE
MAT - RECESSED FLOOR MAT
C.T. - CERAMIC TILE

KEYED NOTES

- ① CONTINUOUS VAPOR BARRIER
- ② WALLS TO RECEIVE 2 1/2" SOUND INSULATION BATTS
- ③ FIRE EXTINGUISHER & CABINET SEE 6/AB.1 (SIM.) FOR RATED WALL LOCATIONS



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FLIGHT SERVICE STATION BUILDING

APPROVED *Per Alberto 5/21/87* DATE

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
FLOOR PLAN

SHEET

A2.1

SHEET 14 OF 41

1 2 3 4 5 6 7 8 9 10 11 12
26 31 32 16 8 9

GENERAL STRUCTURAL NOTES

CODES AND MANUALS:

Uniform Building Code, 1985 Edition
AISC Manual of Steel Construction, 8th Edition
SJI Standard Specifications, Load Tables and Weight Tables
for Steel Joist and Joist Girders, SJI 1983
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
PCI Design Handbook, 3rd Edition, 1985

DESIGN CRITERIA:

A. Vertical:

Live Load		
Roof	20 psf	
Additional Superimposed Loads		
Suspended Equipment	10 psf	

B. Horizontal:

(1) WIND*	[Method 2] p = Ce Cq qs I	
Combined Height, Exposure & Gust Factor (Exposure C)		
0-20 ft.	Ce = 1.2	
20-40 ft.	Ce = 1.3	
40-60 ft.	Ce = 1.3	
Pressure Coefficients		
Wind Stagnation Pressure	qs = 15.0 psf	
(Basic Wind Speed = 75 MPH)	I = 1.0	
Importance Factor		
WIND PRESSURE		
0-20 ft.	p = 1.2x1.3x15x1.0 = 23.4 psf	
20-40 ft.	p = 1.3x1.3x15x1.0 = 25.4 psf	

(2) SEISMIC*

V = Z I K C S W	
Zone 2	Z = 0.375
Importance Factor	I = 1.0
Horizontal Force Factor	K = 1.33
Site Structural Resonance Coefficient	Cs = 0.14
SEISMIC FORCE	W = 0.07 x W

- * Allowable 1/3 stress increase for Wind or Seismic loading.
C. Allowable Soil Bearing Pressure = 2500 psf
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.
F. The Contractor shall determine the size and location of foundations under mechanical equipment.

A. 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 concrete (i.e. sidewalks, slabs, pads, curbs, gutters, site retaining walls, etc.)
b. f'c = 3000 psi @ 28 days - All interior concrete (i.e. footings, pedestals, tie beams, grade beams, retaining walls, etc.)
c. f'c = 3000 psi @ 28 days - All interior slabs on grade.
d. f'c = 3000 psi @ 28 days - All concrete fill over metal deck.
(4) The Contractor shall not cast foundations, stem walls or retaining walls against excavated vertical side surfaces unless approval is requested in writing from Architect, with subsequent permission from Architect to Contractor. Permission will not be given unless the following minimum conditions are met and agreed to in writing from Contractor:
a. Side slopes of excavation shall be able to maintain vertical slope without sloughage of any kind.
b. Width of excavation shall be one inch wider on each side of vertical surface.
c. Side walls of excavation shall be battered approximately one inch horizontal to twelve inches vertical.
d. No permission will be given for sandy or loose material conditions.
e. Rebar shall be properly aligned and maintained.
f. The Contractor shall provide personnel to observe casting operation who shall remove any sloughage from wet concrete.
g. The Contractor shall agree to remove and re-cast footing if the above conditions are not met or adhered to.

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:
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"
f. Joists 3/4"
(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.
(11) Prestressing tendons shall conform to ASTM A416.
Fu = 270 ksi
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. Fv = 46 ksi.
(4) All structural pipe shall conform to ASTM A53, Type E or S, Grade B. Fv = 35 ksi.
(5) The Contractor shall be responsible for checking the Architectural drawings for all miscellaneous steel.
(6) 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.
(7) Anchor bolts embedded in concrete shall be ASTM A307 bolts or A36 threaded bars.
(8) All welding shall be done in accordance with the latest standards of the AWS and AISC.
D. Steel Joists:
(1) Steel joists shall be designed, fabricated and erected in accordance with the 1983 Steel Joist Institute Specifications.
E. 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.
F. Lightgage Structural Steel Framing:
(1) All lightgage steel framing shall be 20 gage or heavier.
(2) All lightgage metal framing shall conform to AISI "Specification for the Design of Cold-Formed Steel Structural Members", 1988.
(3) 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 4'-3" o.c. maximum.
(4) Provide all miscellaneous accessories as per manufacturers recommendations.
(5) Erect as per manufacturers specifications and recommendations.
(6) Lightgage steel framing shall be Inrvco/Milcor or approved equal; sizes are as shown on plans.
(7) All track shall be deep leg, 16 ga. minimum. Track shall be anchored to slab with 1/2" dia. expansion anchors at 4'-0" o.c. unless shown otherwise on plans.

GENERAL FOUNDATION NOTES

1. GENERAL:

- A. A subsurface soil investigation has been made by Sergeant, Hauskins & Beckwith, Consulting Geotechnical Engineers. A report of that investigation dated December 19, 1986 is available for viewing at the office of the Architect.
B. Any information not stated hereinafter which is needed to complete the work may be obtained from the soils report.
2. FIELD OBSERVATION AND TESTS:
A. The Contractor shall employ the services of a registered, licensed Geotechnical Engineer to observe all controlled earthwork. The Geotechnical Engineer shall provide continuous on-site observation by experienced personnel during construction of controlled earthwork. The Contractor shall notify the Geotechnical Engineer at least two working days in advance of any field operations of the controlled earthwork, or of any resumption of operations after stoppages.
B. Tests of materials shall be made at the following suggested minimum rates:
1. One field density test for each 3000 square feet of original ground surface prior to placing structural fill or floor slab construction.
2. One field density test per each 150 cubic yards of structural fill placed or each horizontal layer of structural fill, whichever is greater.
3. One moisture-density curve for each type of material used, as indicated by sieve analysis and plasticity index.
C. The Geotechnical Engineer shall submit the results of all required tests.

3. CLEARING AND GRUBBING:

- A. Remove all brush, rubbish, grass, and grass roots from the construction area.
B. Remove stumps, matted roots and roots larger than 2 inches in diameter within 6 inches of the surface of areas on which fill and/or footings are to be constructed.
C. Remove all topsoil from the construction area. This material shall not be used as fill material, but may be stockpiled and later used in the top 6 inches of fill outside the building pad.

4. SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:

- A. A representative of the Geotechnical Engineer shall be present to confirm complete excavation of any uncontrolled fill.
B. Scarify all exposed subgrade soils to a depth of 8 inches, moisten as necessary to bring the upper one foot to optimum moisture content (+/- 2%) and compact to the density specified hereinafter.
C. Place all structural fill in approximately horizontal layers not greater than eight (8) inches in thickness, moisten to optimum moisture content (+/- 2%) and compact to density specified hereinafter.
D. All earthwork for the building pad shall extend a minimum of 5 feet beyond the perimeter footings.

5. STRUCTURAL FILL REQUIREMENTS:

A. Gradation (ASTM D422):

Sieve Size	Percent Passing by Weight
3"	100
No. 4	50-100
No. 200	10-45

B. Plasticity Index (ASTM D424)

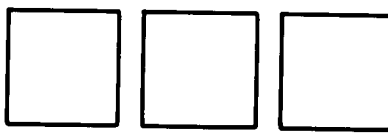
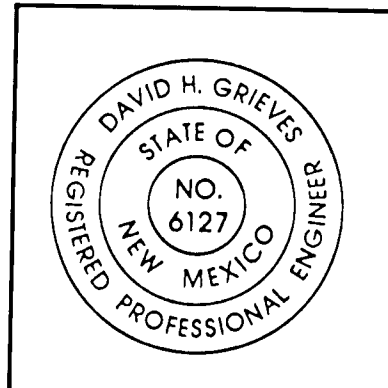
15 max.

- C. Material larger than 3 inches shall not be placed in the structural fill.
D. No brush, sod, frozen material or other unsuitable material shall be placed in the structural fill. Material shall be placed in such a manner as to result in a uniformly compacted fill.

COMPACTION REQUIREMENTS:

- A. Subgrade soils and structural fill materials shall be compacted to the following percentages of the ASTM D1557 maximum dry density at +/- 2% optimum moisture content.

Material	Minimum Percent Compaction
Structural Fill in the Building Area	95
Subbase for Slab Support	95
Subgrade Below Structural Fill	95
Miscellaneous Backfill	90



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FLIGHT SERVICE STATION BUILDING
ALBUQUERQUE INTERNATIONAL AIRPORT

APPROVED DATE
Pen Mark 5/21/87

DATE: 5/21/87
PROJECT: 86007
REVISIONS:

TITLE
STRUCTURAL
NOTES

SHEET

S5.1

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