

ALBUQUERQUE POLICE DEPARTMENT NORTHEAST HEIGHTS SUBSTATION

ALBUQUERQUE, NEW MEXICO

CITY COUNCIL

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MAYOR

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E.L. HANSEN

CHIEF OF POLICE

LT. DENNIS ARMSTRONG

SUBSTATION PROJECT DIRECTOR

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

APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER - FIELD
W. J. McNamee
DATE 7-9-85

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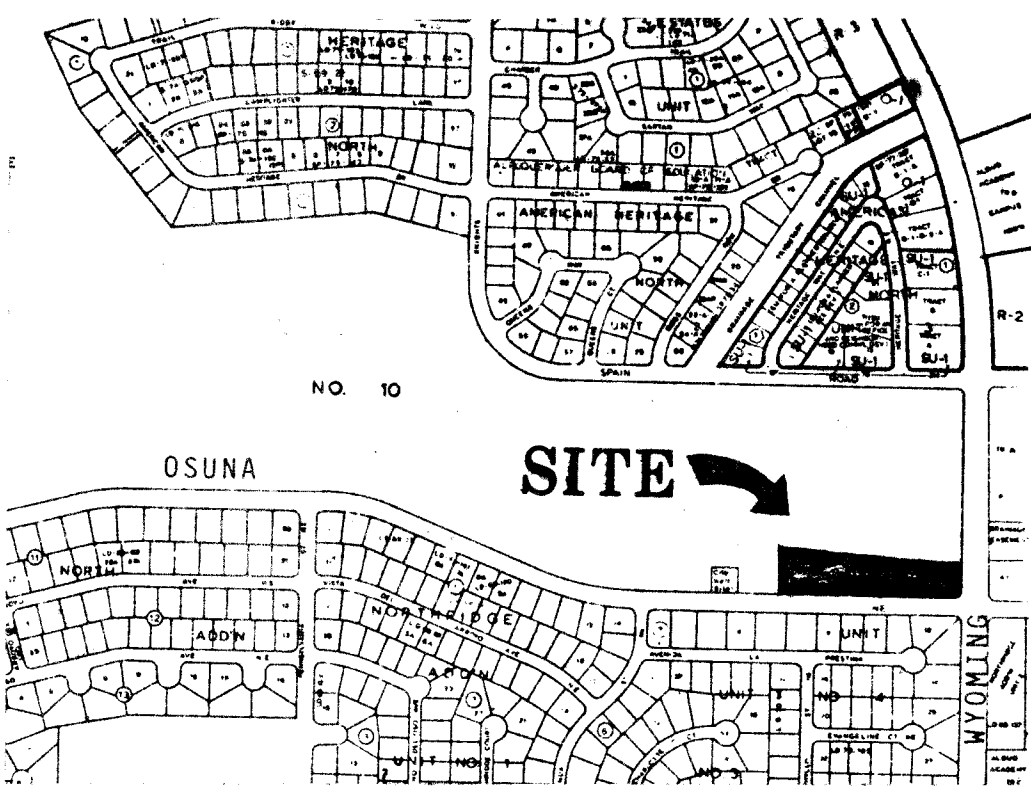
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LEGAL DESCRIPTION

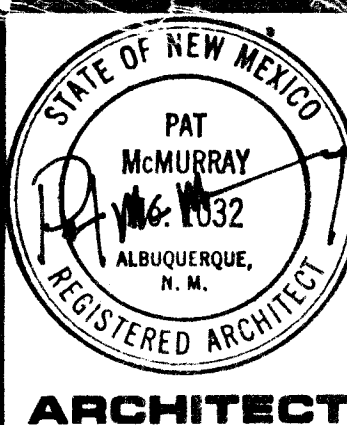
A PORTION OF MUNICIPAL ADDITION NO. 10,
LOCATED AT THE NORTHWEST CORNER OF
WYOMING BLVD. AND OSUNA RD., NE
CONTAINING APPROXIMATELY 3 ACRES.

DESIGN CRITERIA

SEISMIC ZONE	TWO (2)
TYPE OF CONSTRUCTION	TYPE V-N
FLOOR AREA	7,000 S.F.
OCCUPANCY GROUP	B-2
ZONING SU-1 (POLICE SUBSTATION)	
SOIL BEARING CAPACITY	2,000
CONCRETE STRENGTH	3,000
REINFORCEMENT STEEL	GRADE 60
WIND LOADING	SEE STRUCTURAL GENERAL NOTES
ROOF LIVE LOADING	20 PSF
FLOOR LIVE LOADING	100 PSF

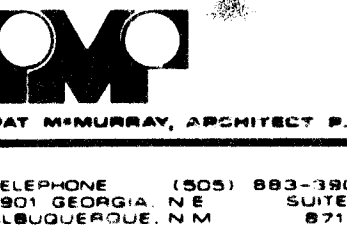


AREA LOCATION MAP



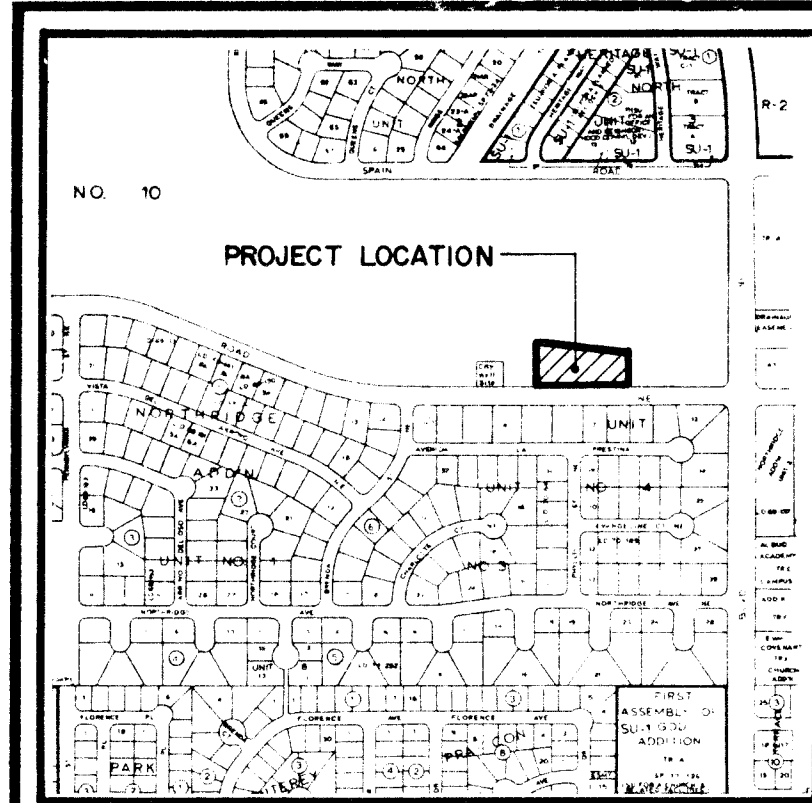
ENGINEER

ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION
ALBUQUERQUE, NEW MEXICO

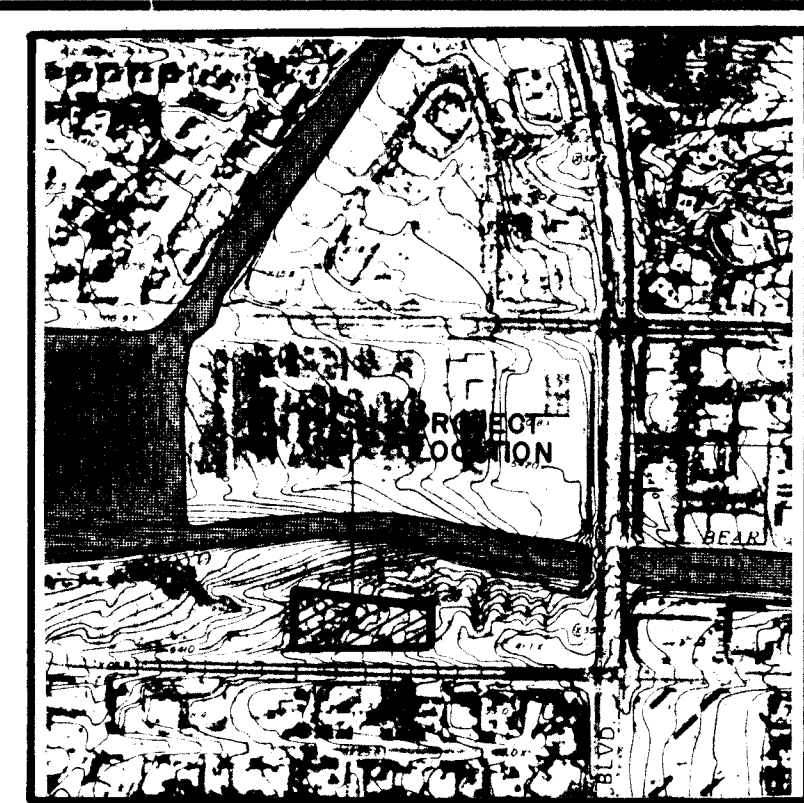


PROJECT NO.
8208
CITY PROJECT
NO. 1653
DATE
NOVEMBER, 1983
REVISION

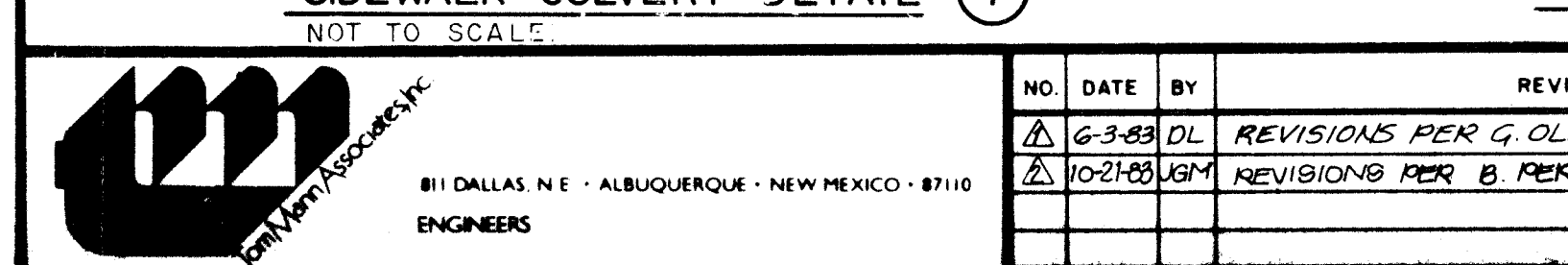
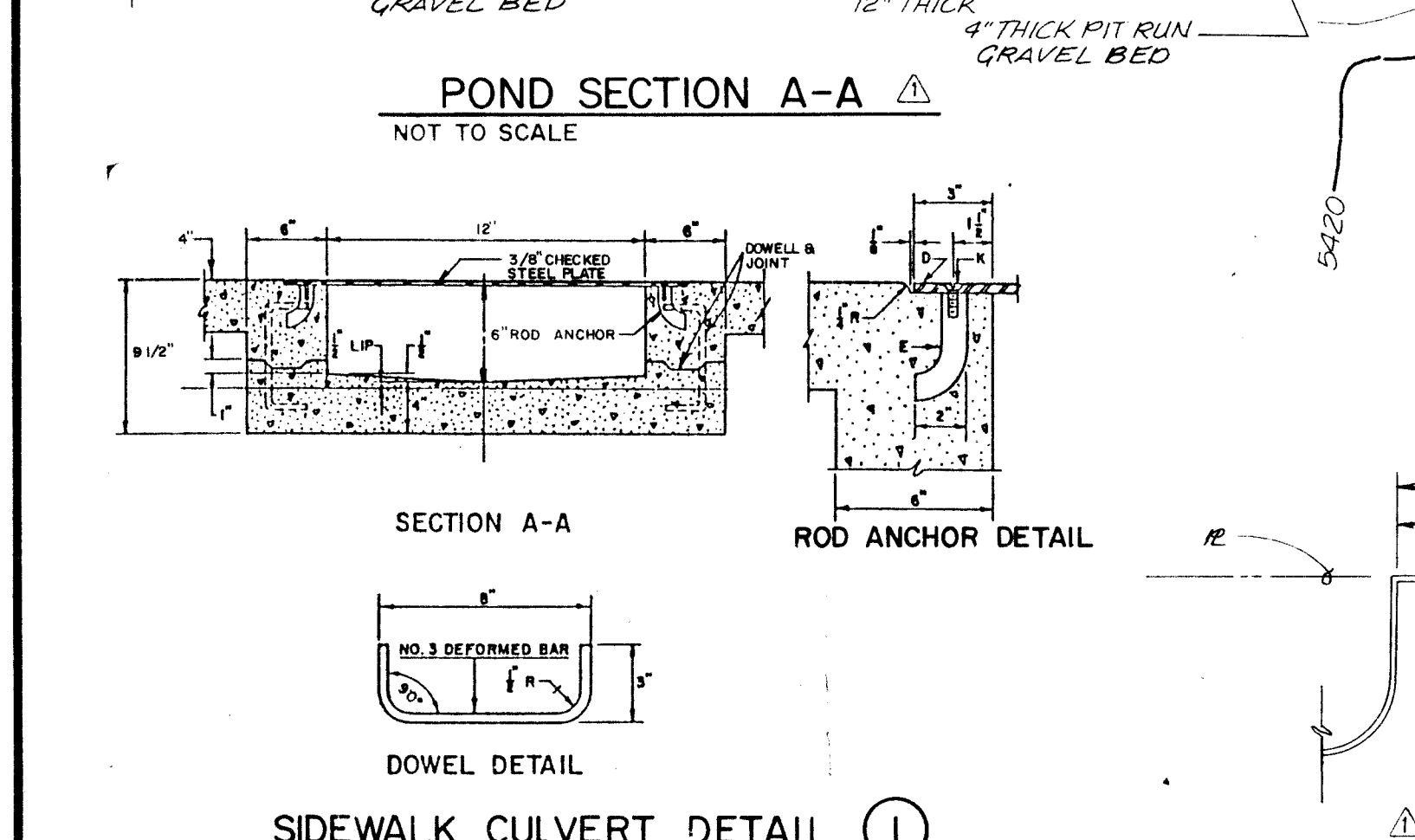
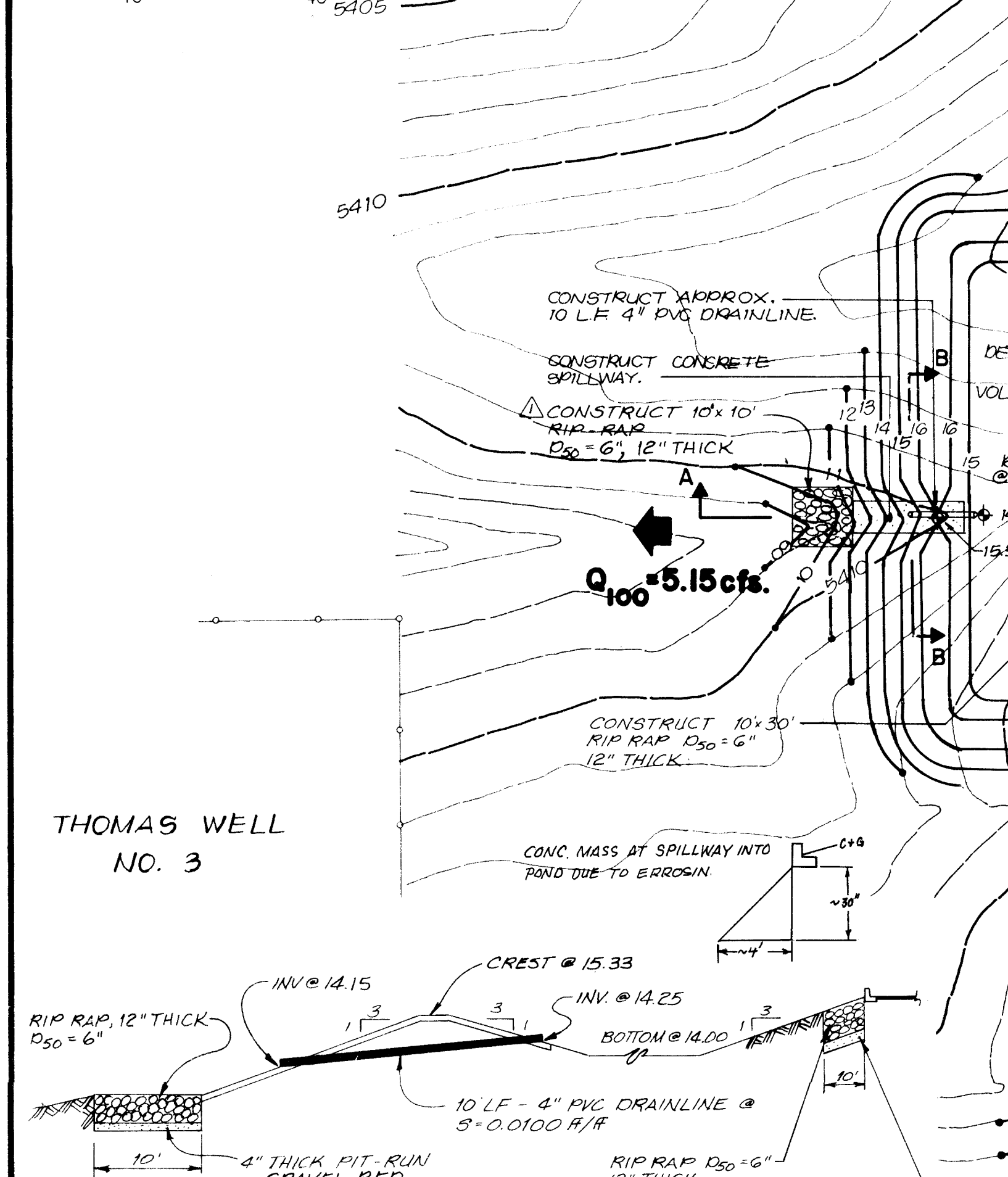
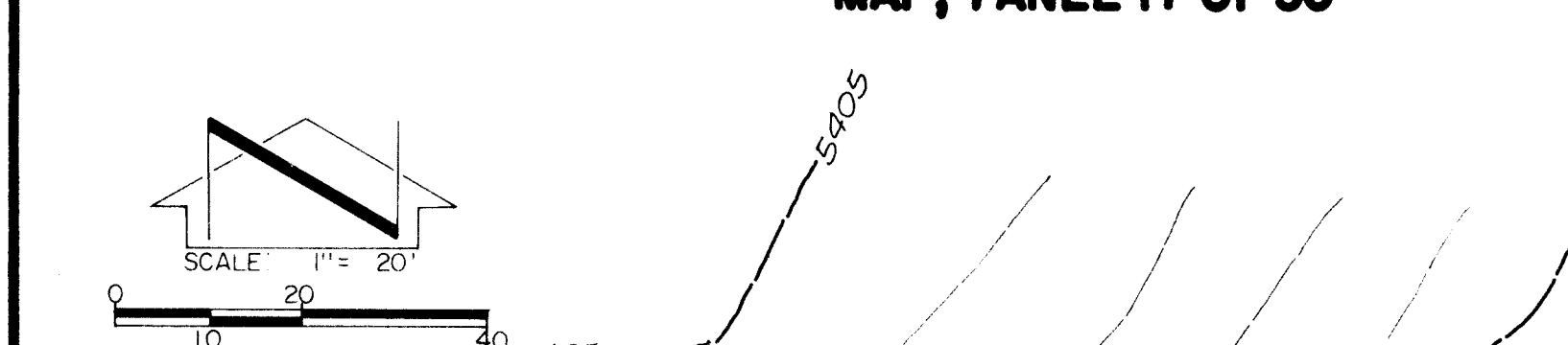
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SHEET NO.



VICINITY MAP



FLOOD BOUNDARY & FLOODWAY MAP, PANEL 17 OF 50



The following items concerning the Northeast Heights Substation drainage plan are contained hereon: (1) Vicinity Map (2) Grading Plan (3) Calculations.

The proposed improvements as shown by the vicinity map are located on Osuna Rd. approximately 500 ft west of Wyoming Blvd. N.E. This site is more particularly described as a portion of Municipal Addition No. 10. At present, the site is undeveloped.

As shown on Panel 17 of the National Flood Insurance Program Floodway Maps, this site does not lie within a flood hazard zone. The site is presently bounded on the south by Osuna Rd. N.E., on the north by the Bear Canyon Arroyo, on the east and the west by undeveloped City property. Off-site flows do not enter the project site. All storm runoff presently drains in a northerly direction and outfalls into the Bear Canyon Arroyo.

The grading plan shows (1) existing and proposed grades indicated by spot elevations and contours at 1'-0" intervals, (2) continuity between existing and proposed elevations, (3) proposed buildings, sidewalks, parking areas and landscaped areas (4) limit and character of the proposed improvements.

As shown by this plan the proposed improvements include the construction of the Northeast Heights Substation for the Albuquerque Police Department, adjacent asphalt parking, sidewalks, and landscaping. The grading required by these improvements will route all storm runoff through a detention pond located at the west boundary of the project site. The detention pond will drain via a 4" PVC drain line and 12" notch weir. From the outfall of the detention pond, storm waters will meander through an existing arroyo and outfall at the Bear Canyon Arroyo. Because of the close proximity of the Bear Canyon Arroyo, this drainage plan essentially free discharges all runoff resulting from major storms. The detention pond is sized to hold low-level frequency storms and nuisance runoff. The 1 yr, 6 hr storm was chosen to calculate the required ponding volume.

The calculations which appear below analyze both the existing and developed conditions for the 100 yr and 1 yr, 6 hour rainfall event. The rational method has been used for this analysis in accordance with the City of Albuquerque Development Process Manual, Volume II. As shown by these calculations, runoff leaving this site under fully developed conditions will be approximately 2.1 cfs higher than which currently leaves the site. Also, as shown by the attached floodway map, the 100 yr water surface level in the Bear Canyon Arroyo is located approximately 25 ft north of the project boundary and will not have an impact on this development.

Calculations

Ground Cover Information

1. From SCS Bernalillo County Soil Survey, Plate 21; Etc- Embudo-Tijeras - soil group B

Rational Method

1. Discharge: $Q = CIA$
Where C varies from 0.58 to 0.51 (OPM Plate 22.2 D-2)

$P_2 = 2.40$ in (100 yr)
 $C = 10$ min (minimum)
 $t_{100} = 5.07$ in/hr
 $A =$ Area, Acres

2. Volume: $V = CP_A(1/12)$
Where C varies from 0.58 to 0.51 (OPM Plate 22.2 C-1)
 $P_2 = 2.40$ in (100 yr)
 $A =$ Area, Acres

Existing Condition

1. Onsite:

$A = 1.75$ Ac = 76,230 sf
 $A_{imp} = 0$ sf
 $A_{impervious} = 0$
 $C = 0.34$ (OPM Plate 22.2 C-1)
 $Q_{100} = CIA = 0.34(5.07)(1.75) = 3.02$ cfs
 $Q_{100} = CP_A = 0.34(2.40)(76,230)/12 = 3184$ cf

Developed Condition

1. Onsite:

$A = 1.75$ Ac = 76,230 sf
 $A_{imp} = 36,480$ sf
 $A_{impervious} = 481$
 $C = 0.58$
 $Q_{100} = CIA = 0.58(5.07)(1.75) = 5.15$ cfs
 $Q_{100} = CP_A = 0.58(2.40)(76,230)/12 = 8843$ cf

2. Pond Sizing

This detention pond was sized to hold nuisance runoff and low frequency storms. The 1 yr - 6 hour storm was chosen as design storm for pond sizing purposes.

$A = 1.75$ Ac = 76,230 sf
 $P_2 = 0.65$ in (From NOAA Atlas-2, Volume IV)
 $t_c = 10$ min.
 $t = 1.37$ in/hr.
 $C = 0.58$
 $Q_1 = 0.58(1.37)(1.75) = 1.39$ cfs
 $V_1 = 0.58(0.65)(76,230)/12 = 2395$ cf

Runoff resulting from storms greater than the 1 yr - 6 hr frequency storm will discharge thru a 4" pipe and over a weir on the west edge of the pond. The 4" PVC drainline is designed to drain the 1 yr - 6 hr storm but retain irrigation runoff.

$Q_{4" \text{ pipe}} = CA\sqrt{2gh}$ (Orifice Eqs)
Let $H = 1.0$ ft
 $A = 0.086$ sq ft
 $C = 0.8$
 $Q = 32.2$ ft/sec
 $Q = 0.41$ cfs
 Q (weir) = $C\sqrt{2g} \tan \frac{\theta}{2} H^{3/2}$
Where: $C = 0.58$
 $\theta = 16.5^\circ$
 $H = 0.67'$
 $Q = 6.93$ cfs = 5.15 cfs

NOTE: Contractor to continue 6" Wide Jogging Path to Adjacent Intersection. See Note 26, Sheet No. 10.

PROJECT BENCHMARK
A STANDARD CROSS TABLET STAMPED
"3-17-1987" SET IN TOP OF CONCRETE POST 0.20
FEET BELOW THE TOP OF CURB LOCATED AT
THE MAIN CURB RETURN AT THE INTERSECTION OF
OSUNA RD. N.E. AND RIV. BLVD. N.E. ELEV. 5440.41

LEGAL DESCRIPTION
PORTION OF MUNICIPAL ADDITION
NO. 10

PROPERTY ADDRESS
OSUNA RD. N.E.

LEGEND
+ EXISTING SPOT ELEV.
+ PROPOSED SPOT ELEV.
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING CURB ELEV.
- PROPOSED CURB ELEV.
- TOP OF CURB ELEV.
- FLOWLINE ELEV.
- DIRECTION OF FLOW
- 100 YR DEVELOPED FLOWLINE
- PROPERTY LINE

GRADING & DRAINAGE PLAN
POLICE SUBSTATION

DATE 2-10-82
4-85

DESIGNED BY D.A.L.
DRAWN BY J.M.C.
APPROVED T.T.M.

REVISIONS
1. DATE 2-10-82 REVISIONS PER G. OLSON
2. DATE 4-85 REVISIONS PER B. PERKINS

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CITY PROJECT NO. 1663
DATE NOVEMBER, 1983
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DOWEL DETAIL
SIDEWALK CULVERT DETAIL

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TYPICAL CURB OPENING DETAIL
SPILLWAY SECTION B-B

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- PROPOSED CONTOUR
- EXISTING CURB ELEV.
- PROPOSED CURB ELEV.
- TOP OF CURB ELEV.
- FLOWLINE ELEV.
- DIRECTION OF FLOW
- 100 YR DEVELOPED FLOWLINE
- PROPERTY LINE

GRADING & DRAINAGE PLAN
POLICE SUBSTATION

DATE 2-10-82
4-85

DESIGNED BY D.A.L.
DRAWN BY J.M.C.
APPROVED T.T.M.

REVISIONS
1. DATE 2-10-82 REVISIONS PER G. OLSON
2. DATE 4-85 REVISIONS PER B. PERKINS

PROJECT NO. 8208
CITY PROJECT NO. 1663
DATE NOVEMBER, 1983
REVISION

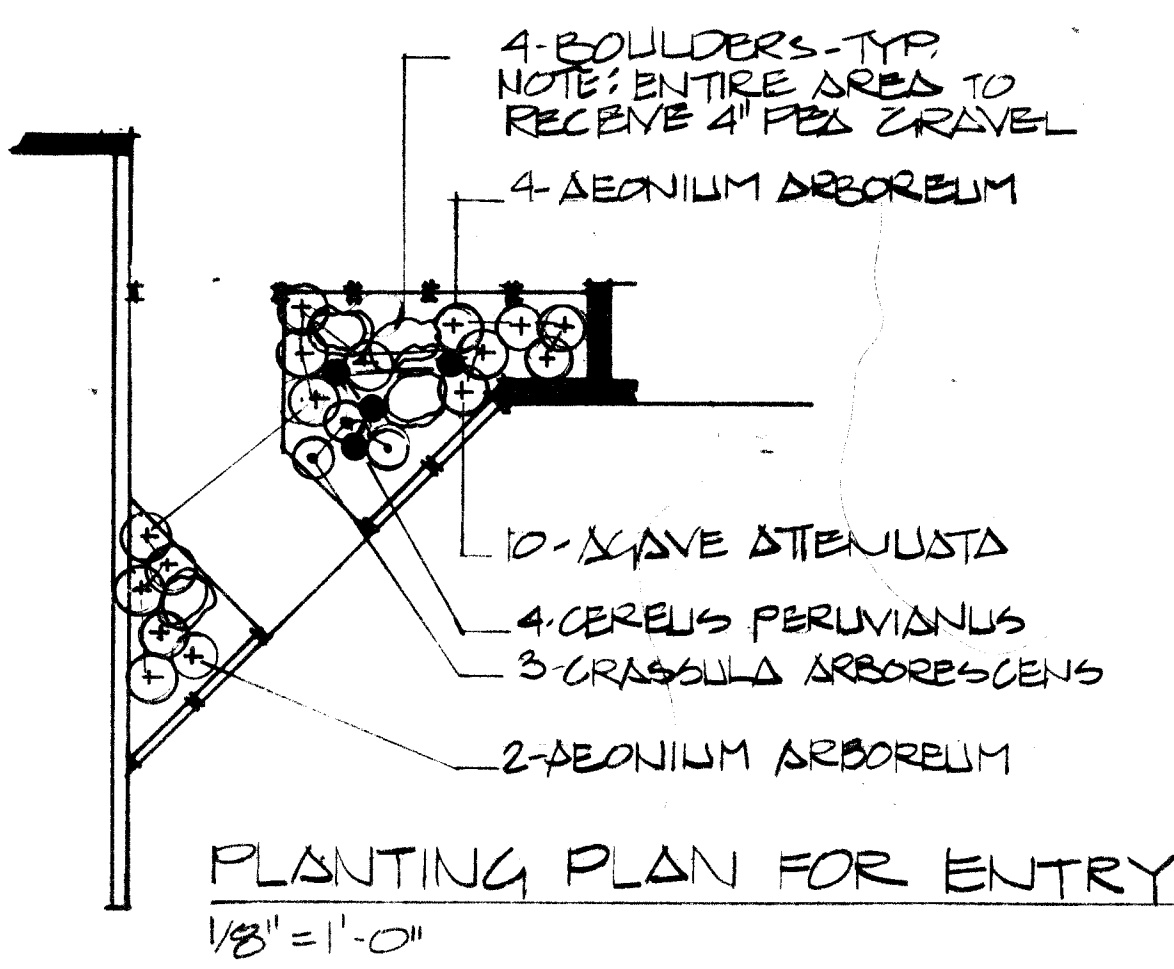
SECTION A-A
ROD ANCHOR DETAIL
DOWEL DETAIL
SIDEWALK CULVERT DETAIL

CURB OPENING PLAN AT POND DETAIL
TYPICAL CURB OPENING DETAIL
SPILLWAY SECTION B-B

OSUNA ROAD N.E.

PROPERTY ADDRESS
OSUNA RD. N.E.

LEGEND
+ EXISTING SPOT ELEV.
+ PROPOSED SPOT ELEV.
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING CURB ELEV.
- PROPOSED CURB ELEV.
- TOP OF CURB ELEV.
- FLOWLINE ELEV.
- DIRECTION OF FLOW
- 10



EXTERIOR PLANT LIST

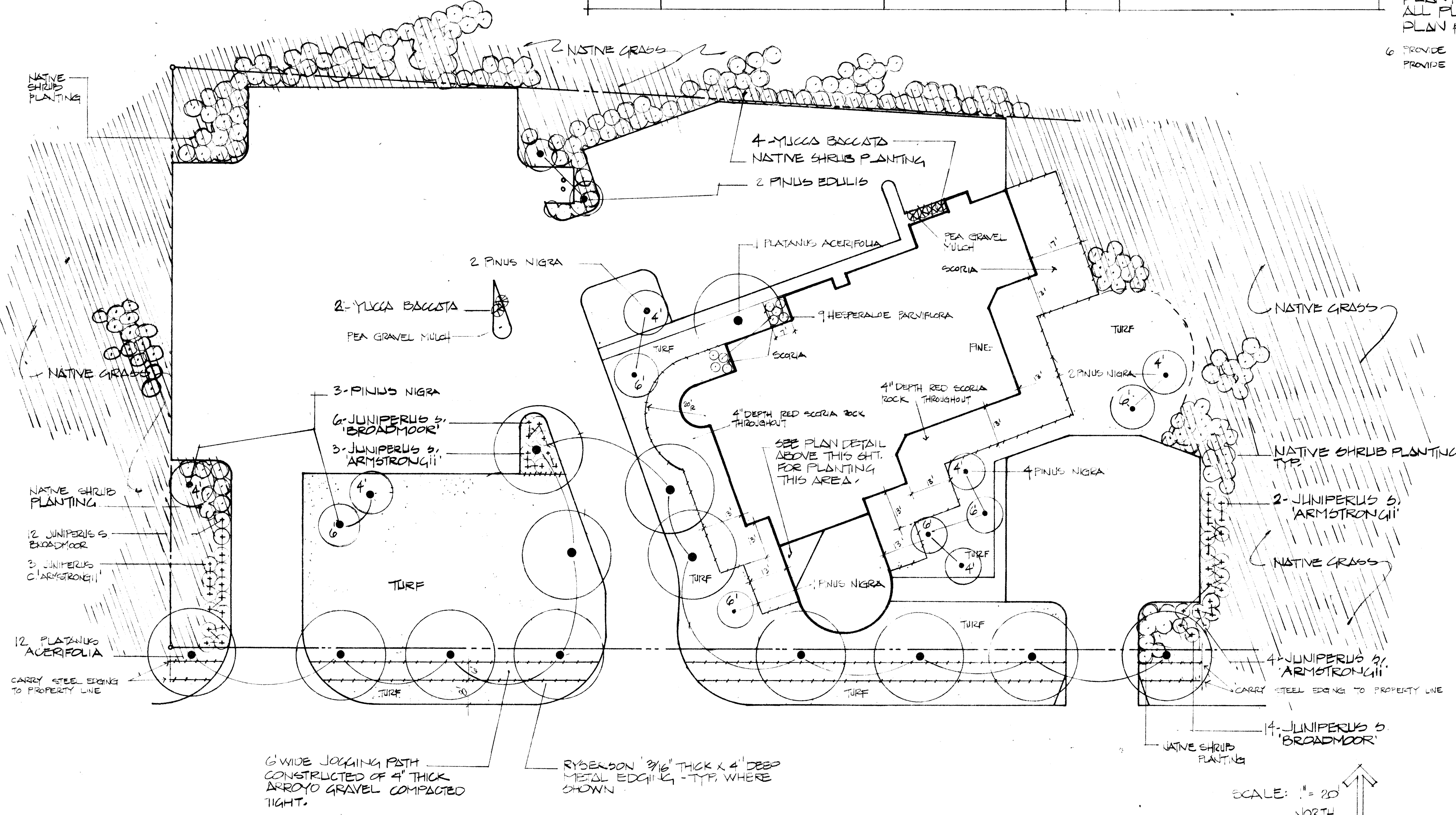
APPROX. QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENT
2	PINUS EDULIS	PIÑON PINE	5' HT.	24\"/>

INTERIOR PLANT LIST

QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENT
6	ADONIS ARBOREUM		1 GAL	
10	AGAVE ATTENUATA		5 GAL	
4	CEREUS PERUVIANUS	PERUVIAN TREE CACTUS	4-6"	VARY HT. BETWEEN 4d 6'
3	CRASSULA ARBORESCENS	JASDE PLANT	3 GAL.	

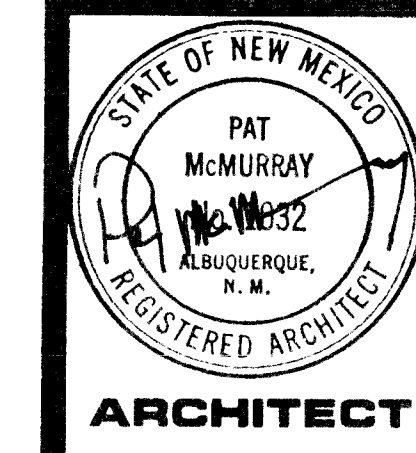
* NOTES

1. ALL TURF AREAS INDICATED ON PLAN SHALL BE SODDED W/ TRANSITION BLEND KENTUCKY BLUE GRASS - SEE SPECIFICATIONS.
2. ALL DISTURBED SOIL NOT INDICATED AS PLANTED TURF OR SHRUB PLANTINGS (EXCLUDING NATIVE SHRUB PLANTINGS) SHALL BE RESEED WITH NATIVE GRASS AS FOLLOWS:
50 LBS/AC. BUFFALO GRASS (BUCHLOE PACTYLOIDES)
5 LBS/AC. BLUE GRAMA (BOULBOUDA GRAMIN)
1 LBS/AC. SAND DROPSID
CONTRACTOR SHALL CONSTRUCT TEMPORARY IRRIGATION SYSTEM AS REQUIRED TO GERMINATE & ESTABLISH NATIVE GRASS PER SPECIFICATIONS.
3. BOULDERS INDICATED ON PLAN SHALL BE EQUAL MK OF 3\"/>



Planting Plan

Craig
Campbell
Associates
landscape
architect



ARCHITECT

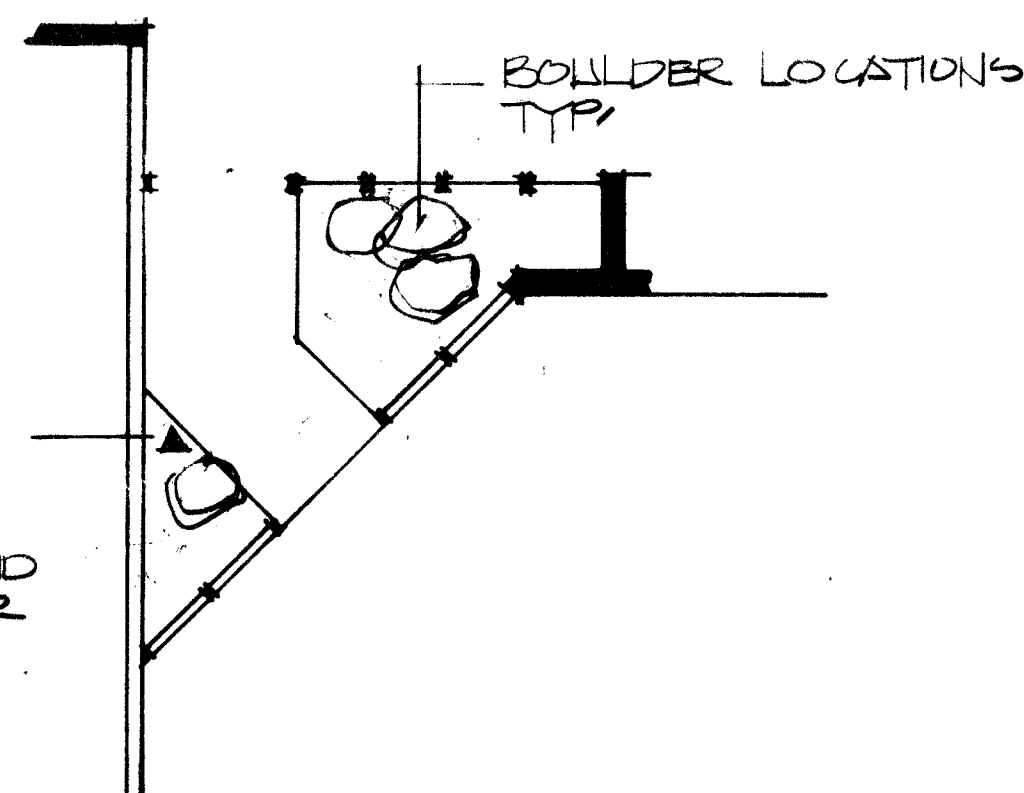
ENGINEER

ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION
ALBUQUERQUE, NEW MEXICO



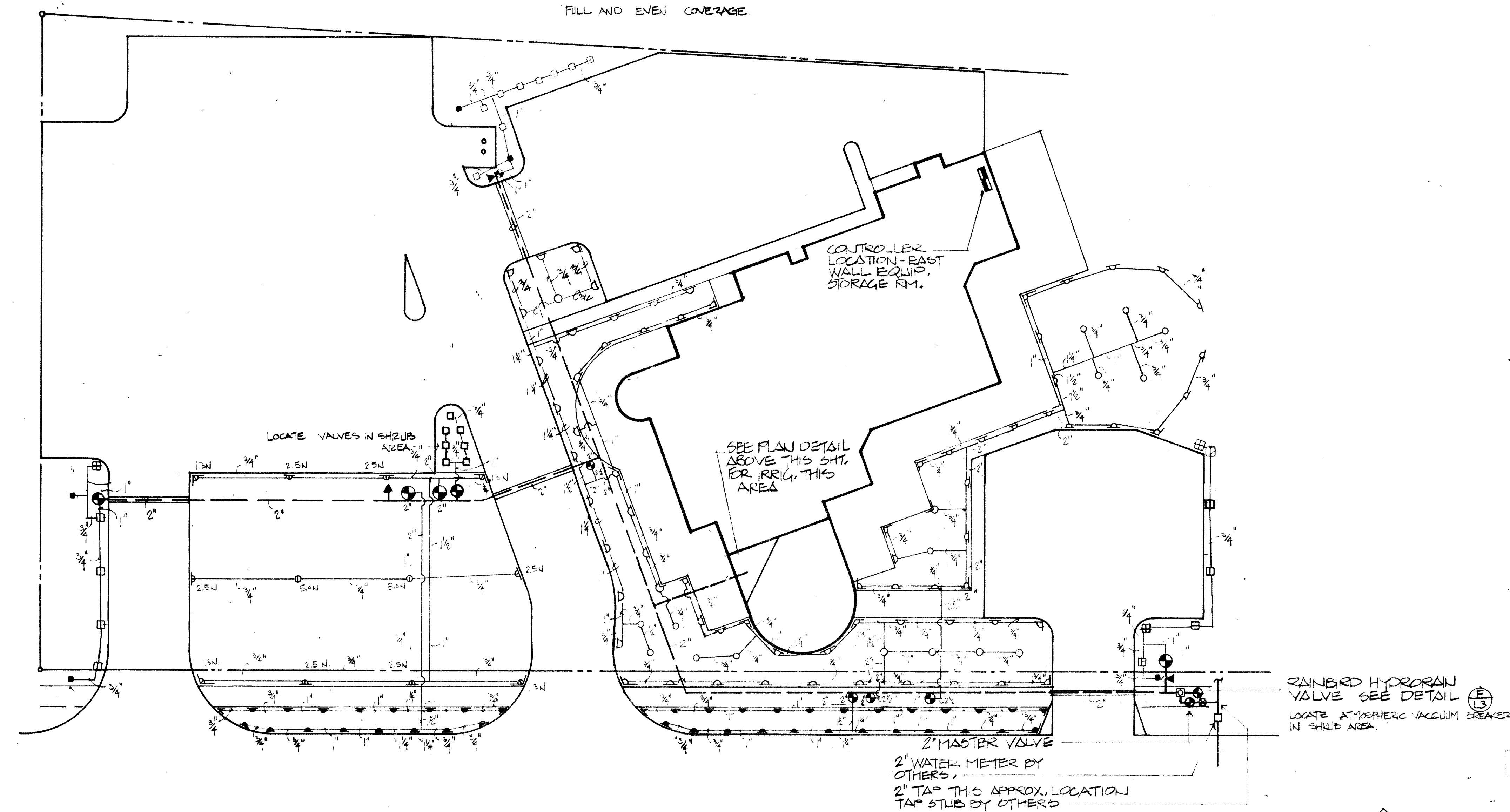
PROJECT NO. 8208
CITY PROJECT NO. 1653
DATE NOVEMBER, 1963
REVISION
1
2
3
L 1
SHEET NO.

LOCATE HOSE BIB IN VALVE CAN THIS IS LOCATION FOR HAND WATERING INTERIOR PLANTINGS



SYMBOL	ITEM	COMMENT
○	2" 570P-15-F LAWN SPRAY	15' R @ 30 PSI SEE DETAIL (C)
○	" 570P-15-H "	" "
○	" 570P-15-120° "	" "
○	" 570P-15-Q "	" "
○	" 570P-12-F "	12' R @ 25 PSI "
○	" 570P-12-H "	" "
○	" 570P-12-120° "	" "
○	" 570P-12-Q "	" "
○	" 570P-15-H 542B SPRAY	15' R @ 25 PSI SEE DETAIL (C)
○	" 570P-15-Q "	" "
○	514-30 ADJUSTABLE STREAM BUBBLES	SEE DETAIL (B)
○	RAINBIRD EPA-CP SERIES CONTROL VALVE	SIZE AS SHOWN SEE DETAIL (A)
○	RAINBIRD 2" ATMOSPHERIC VACUUM BREAKER	SEE DETAIL (A)
○	CASH-N-NEE 5/8" PRESSURE REGULATOR	INSTALL IN VALVE CAN SIM. TO DETAIL (A) INSTALL AS PER MFG. SPECIFICATIONS.
○	RAINBIRD RC-1800AB CONTROLLER	1 1/4" DUAL PROGRAMMING CAPABILITY
○	SCHEDULE 40 IRRIGATION MAINLINE - 3/4" BURY	2" DIAM.
○	CLOSED 200 PVC LATERAL LINES - 24" BURY	SIZE AS INDICATED
○	HOSE BIB - 3/4"	INSTALL IN VALVE CAN - INSTALL 1/4" CAN AS PER (A)
○	2" 54-80 ADJUSTABLE FLOOD BUBBLER	INSTALL 1/4" FLEX TUBING SO THAT BUBBLER IS 1" ABOVE TOP OF MULCH DEE (C)
○	2" 54-80 ADJUSTABLE FLOOD BUBBLER	SEE DETAIL (C) - ADJUST FOR EVEN COVERAGE

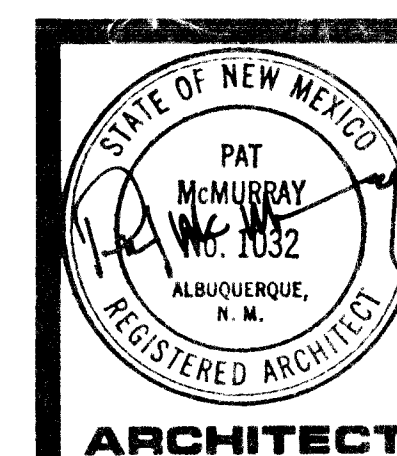
1. ALL VALVES TO BE LOCATED OUTSIDE OF LAWN AREAS IN-1 SHUB BEDS, WHEREVER POSSIBLE
2. ALL IRRIGATION LINES & WIRE UNDER PAVING OR SIDEWALKS SHALL BE SET IN P.V.C. SLEEVES, SIZE AS REQD.
3. CONTRACTOR IS RESPONSIBLE TO PROVIDE FULL AND EVEN IRRIGATION COVERAGE OF ALL TURF AREA. ADJUST HEAD LOCATIONS AND ADD HEADS AS REQD. TO PROVIDE FULL AND EVEN COVERAGE.



SCALE: 1" = 20'
NORTH

Irrigation Plan

Craig
Campbell
Associates
landscape
architect



ENGINEER

ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION
ALBUQUERQUE, NEW MEXICO

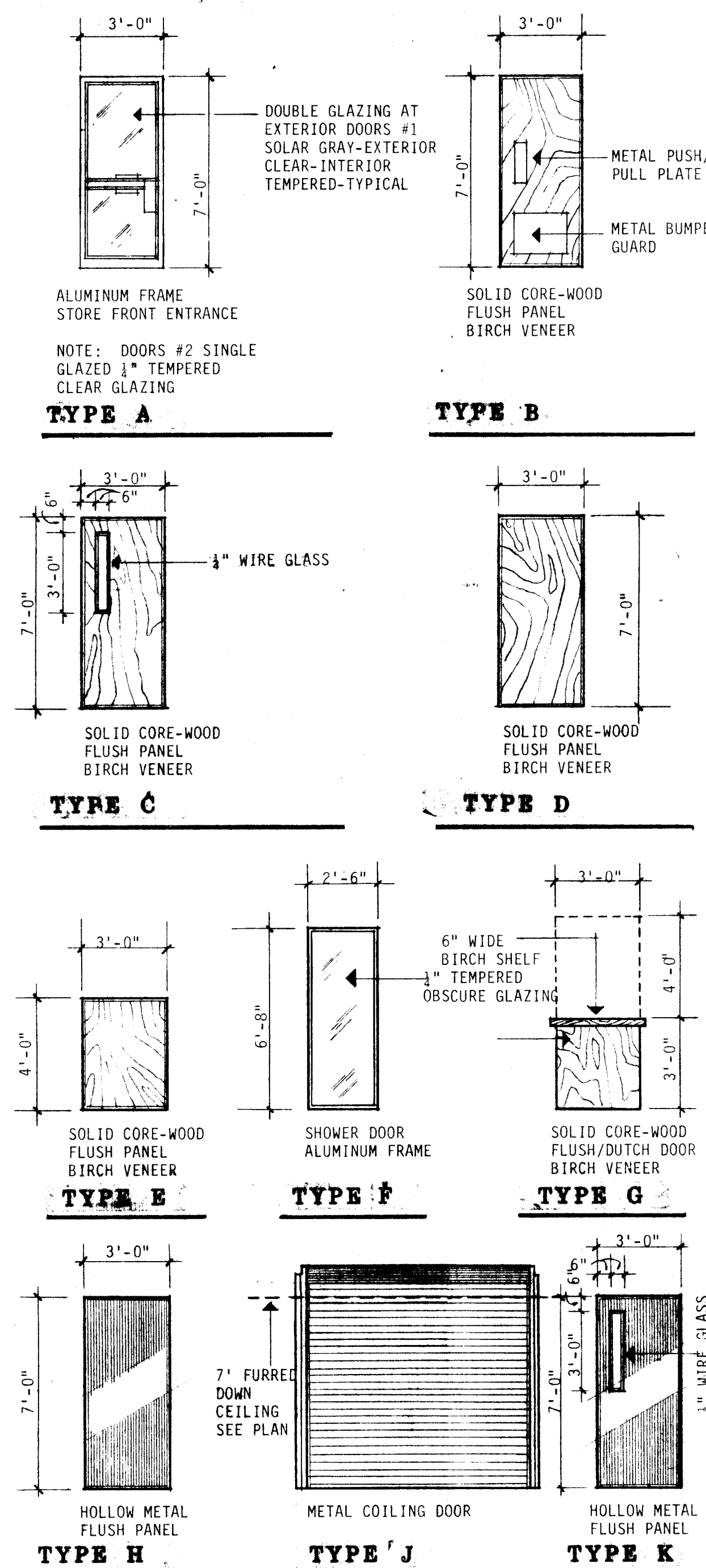


PROJECT NO.
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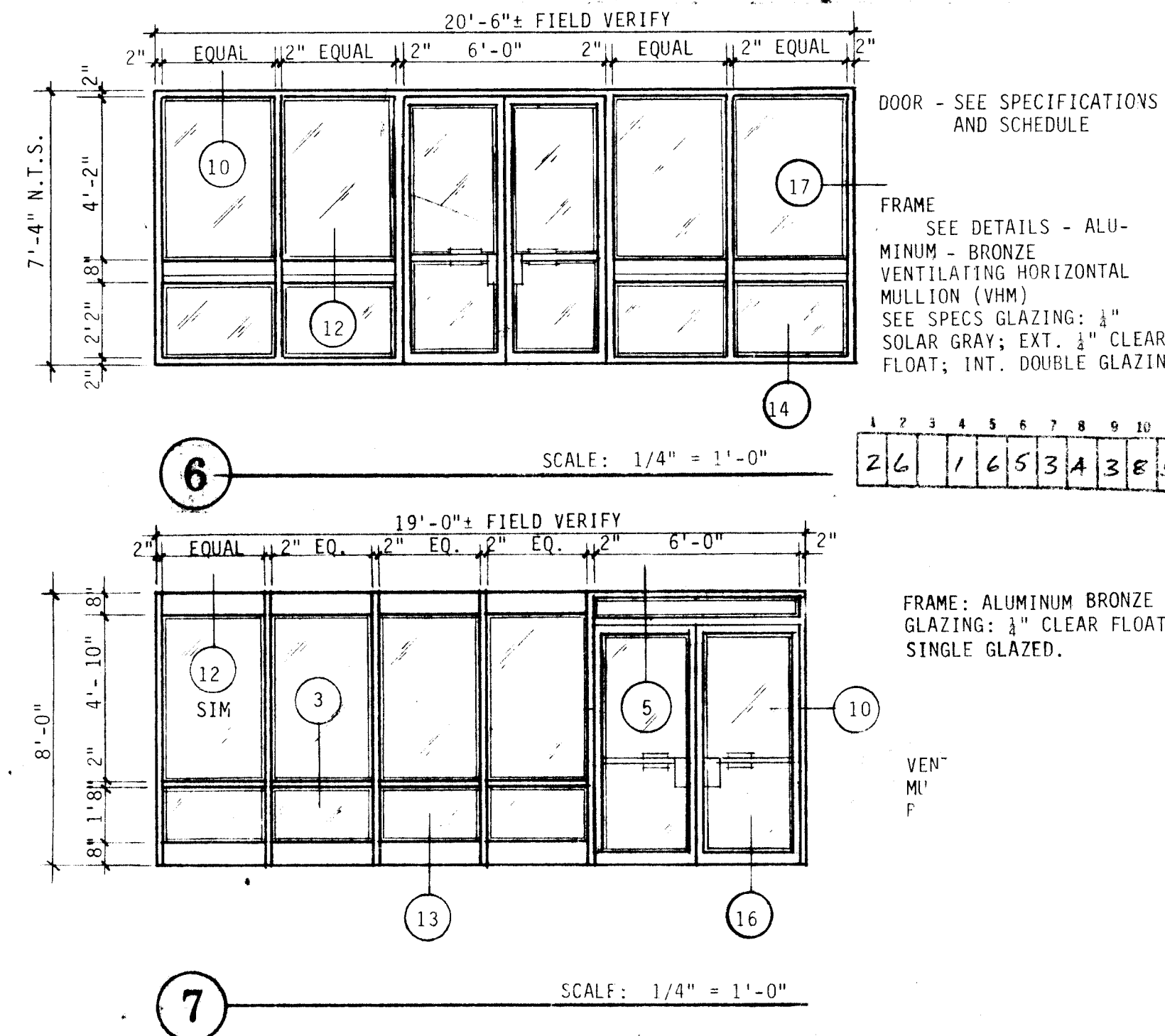
ROOM FINISH SCHEDULE									
MK	NAME	WALLS				FLOOR	BASE	CEILING	REMARKS
		NORTH	SOUTH	EAST	WEST				
100	ENTRY/AIRLOCK	GLASS	GLASS	BRICK	BRICK	EXPOSED AGGREG.	--	GYP.BD. GLASS	8' CLG. HGT. - SEE REF. CLG. SEE DETAILS & ELEVATIONS
101	LOBBY	--	GLASS	BRICK	BRICK	QUARRY TILE	--	ACQUST. TILE	8' CEILING HEIGHT
102	MEN	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	UNGLDZ. C. TILE	CERAMIC R. C. TILE	GYP.BD. ACQUST. TILE	WALLS-4'-6" HIGH C.T. WAINSCOT CEILING TO RECEIVE PAINT
103	WOMEN	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	UNGLDZ. C. TILE	CERAMIC R. C. TILE	GYP.BD. ACQUST. TILE	WALLS-4'-6" HIGH C.T. WAINSCOT CEILING TO RECEIVE PAINT
104	SECRETARIAL/RECEPTIONIST	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	ACQUST. TILE	8' CEILING HEIGHT
105	INTERVIEW ROOM	GYP.BD. PAINT	GYP.BD. PAINT	BRICK	GYP.BD. PAINT	V.A. TILE	VINYL	ACQUST. TILE	8' CEILING HEIGHT
106	WORKROOM	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	VINYL	ACQUST. TILE	8' CEILING HEIGHT
107	CASE COORDINATOR	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
108	DATA ROOM	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
109	CORRIDOR	--	--	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
110	COPY MACHINE	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	VINYL	7' CEILING HEIGHT
111	COFFEE	--	--	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	VINYL	7' CEILING HEIGHT
112	AREA COMMANDER'S OFFICE	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
113	STAFF CONFERENCE ROOM	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
114	DETECTIVE'S WORK AREA	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
115	CORRIDOR	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. GLASS	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
116	WATCH 1 COMMANDER	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
117	SEALANT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
118	WATCH 3 COMMANDER	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
119	SEALANT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
120	WATCH 2 COMMANDER	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
121	SEALANT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
122	CORRIDOR	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. GLASS	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
123	ELECTRIC/TELEPHONE ROOM	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	SEALED CONC.	VINYL	ACQUST. TILE	8' CEILING HEIGHT
124	SEALANT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
125	CORRIDOR	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
126	BRIEFING ROOM	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	9' CEILING HEIGHT
127	INTERROGATION ROOM	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	VINYL	GYP.BD. PAINT	8' CEILING HEIGHT
128	INTERROGATION ROOM	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	VINYL	GYP.BD. PAINT	8' CEILING HEIGHT
129	INTERROGATION ROOM	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	VINYL	GYP.BD. PAINT	8' CEILING HEIGHT
130	MEN	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	UNGLDZ. C. TILE	CERAMIC R. C. TILE	GYP.BD. ACQUST. TILE	WALLS-4'-6" HIGH WAINSCOT CEILING TO RECEIVE PAINT
131	CUSTODIAN	M.R. GYP.BD.	M.R. GYP.BD.	M.R. GYP.BD.	M.R. GYP.BD.	SEALED CONC.	VINYL	GYP.BD. ACQUST. TILE	8' CEILING HEIGHT; WALLS & CEILING TO RECEIVE PAINT
132	WOMEN	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	UNGLDZ. C. TILE	CERAMIC R. C. TILE	GYP.BD. ACQUST. TILE	WALLS-4'-6" HIGH WAINSCOT CEILING TO RECEIVE PAINT
133	HOT WATER HEATER ROOM	M.R. GYP.BD.	M.R. GYP.BD.	M.R. GYP.BD.	M.R. GYP.BD.	SEALED CONC.	VINYL	GYP.BD. ACQUST. TILE	8' CEILING HEIGHT; WALLS & CEILING TO RECEIVE PAINT
134	OFFICER'S LOUNGE	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	VINYL	GYP.BD. PAINT	8' CEILING HEIGHT
135	MAILBOXES	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	VINYL	GYP.BD. PAINT	7' CEILING HEIGHT
136	COPY MACHINE	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	VINYL	GYP.BD. PAINT	7' CEILING HEIGHT
137	DEBRIEFING ROOM	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	CARPET	VINYL	ACQUST. TILE	8' CEILING HEIGHT
138	CORRIDOR	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	GYP.BD. PAINT	V.A. TILE	VINYL	ACQUST. TILE	8' CEILING HEIGHT
139	SMALL ARMS ROOM	C.M.U. PAINT	C.M.U. PAINT	C.M.U. PAINT	C.M.U. PAINT	V.A. TILE	VINYL	GYP.BD. PAINT	8' CEILING HEIGHT
140	RADIO ALCOVE	GYP.BD. PAINT	GYP.BD. PAINT	C.M.U. PAINT	C.M.U. PAINT	V.A. TILE	VINYL	GYP.BD. PAINT	7' CEILING HEIGHT
141	ARMORY	C.M.U. PAINT	C.M.U. PAINT	C.M.U. PAINT	C.M.U. PAINT	SEALED CONC.	VINYL	GYP.BD. PAINT	8' CEILING HEIGHT
142	MISCELLANEOUS EVIDENCE HOLDING	C.M.U. PAINT	C.M.U. PAINT	C.M.U. PAINT	C.M.U. PAINT	SEALED CONC.	VINYL	GYP.BD. PAINT	1 HR. RATED COILING DOOR OPERABLE FROM ROOM #142
143	EVIDENCE ALCOVE	GYP.BD. PAINT	GYP.BD. PAINT	CEILING METAL DR	--	V.A. TILE	VINYL	GYP.BD. PAINT	7' CEILING HEIGHT
144	POLICE ENTRANCE AIRLOCK	M.R. GYP.BD.	M.R. GYP.BD.	M.R. GYP.BD.	M.R. GYP.BD.	V.A. TILE	VINYL	GYP.BD. PAINT	8' CEILING HEIGHT; WALLS & CEILING TO RECEIVE PAINT

DOOR SCHEDULE												
MARK	SIZE	DOOR			DETAILS				REMARKS	MARK		
		TYPE	HDWR	FRAME	GLASS	U.L. RATING	HEAD	JAMB			SILL	
1	(PR) 3'-0"x7'-0"x1-3/4"	A	1	6	DBL. GLAZING	--	10,15	17	14,16	1" SOLAR GRAY EXT. 1" CLEAR FLOAT INT.		
2	(PR) 3'-0"x7'-0"x1-3/4"	A	1	7	SINGLE	--	12	18	13,16	1" CLEAR FLOAT		
3	3'-0"x7'-0"x1-3/4"	B	5	1	--	20 MINUTE	19	19(SIM)	--			
4	3'-0"x7'-0"x1-3/4"	B	5	1	--	20 MINUTE	19	19(SIM)	--			
5	3'-0"x7'-0"x1-3/4"	C	6	1	1/4" WIRE	20 MINUTE	19	30	--			
6	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19,30	--			
7	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19,30	--			
8	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--			
9	3'-0"x7'-0"x1-3/4"	D	7	2	--	20 MINUTE	19,20	19,24	23	SEE FRAME ELEVATION 2/4		
10	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--			
11	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--	H.M. FRAME WIDTH 81"		
12	3'-0"x7'-0"x1-3/4"	D	8	1	--	--	19	19(SIM)	--	H.M. FRAME WIDTH 81"		
13	3'-0"x7'-0"x1-3/4"	C	7	1	1/4" WIRE	20 MINUTE	19	19(SIM)	--			
14	3'-0"x7'-0"x1-3/4"	C	7	1	1/4" WIRE	20 MINUTE	19	19(SIM)	--			
15	3'-0"x7'-0"x1-3/4"	C	7	1	1/4" WIRE	20 MINUTE	19	19(SIM)	--			
16	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--			
17	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--			
18	3'-0"x4'-0"x1-3/4"	E	9	--	--	--	--	--	--	DOOR, S.S. DOUBLE ACTING W/ C.T. SEE ELEVATION		
19	3'-0"x7'-0"x1-3/4"	D	7	3	--	20 MINUTE	19,20	19,24	23	SEE FRAME ELEVATION.		
20	3'-0"x7'-0"x1-3/4"	D	10	1	--	20 MINUTE	19	19(SIM)	--			
21	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--			
22	3'-0"x7'-0"x1-3/4"	C	11	1	1/4" WIRE	20 MINUTE	19	19(SIM)	--			
23	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--			
24	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--			
25	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--			
26	3'-0"x7'-0"x1-3/4"	C	11	1	1/4" WIRE	20 MINUTE	19	19(SIM)	--			
27	3'-0"x7'-0"x1-3/4"	C	7	1	1/4" WIRE	20 MINUTE	19	19(SIM)	--			
28	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--	INSTALL LOCKSET W/CYLINDER ON DOOR SIDE		
29	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--	INSTALL LOCKSET W/CYLINDER ON DOOR SIDE		
30	3'-0"x7'-0"x1-3/4"	D	7	1	--	20 MINUTE	19	19(SIM)	--	INSTALL LOCKSET W/CYLINDER ON DOOR SIDE		
31	3'-0"x7'-0"x1-3/4"	B	12	1	--	20 MINUTE	19	19(SIM)	--	DISCURE GLASS, SHOWER DOOR IN METAL FRAM.		
32	2'-6"x6'-8"	F	MANF.	MANF.	TEMPERED	--	--	--	--	DISCURE GLASS, SHOWER DOOR IN METAL FRAM.		
33	3'-0"x7'-0"x1-3/4"	D	10	1	--	45 MINUTE	19	19(SIM)	--	12"x6" LOUVER - SEE M-1		
34	3'-0"x7'-0"x1-3/4"	B	12	1	--	20 MINUTE	19	19(SIM)	--			
35	2'-6"x6'-8"	F	MANF.	MANF.	TEMPERED	--	--	--	--	DISCURE GLASS, SHOWER DOOR IN METAL FRAM.		
36	2'-8"x7'-0"x1-3/4"	D	13	1	--	20 MINUTE	19	19(SIM)	--			
37	3'-0"x7'-0"x1-3/4"	D	11	1	--	20 MINUTE	19	19(SIM)	--			
38	3'-0"x7'-0"x1-3/4"	C	7	1	1/4" WIRE	20 MINUTE	19	19(SIM)	--			
39	3'-0"x7'-0"x1-3/4"	G	14	1	--	--	19	19(SIM)	--	SOLID ZONE WOOD DUTCH DOOR SEE ELEVATION.		
40	3'-0"x7'-0"x1-3/4"	H	7	4	--	20 MINUTE	25	26	--			
41	3'-0"x7'-0"x1-3/4"	H	7	1	--	20 MINUTE	19	19(SIM)	--			
42	3'-0"x7'-0"x1-3/4"	C	15	1	1/4" WIRE	20 MINUTE	19	19(SIM)	--			
43	8'-0"x7'-0"	J	MANF.	MANF.	--	1 HOUR	--	--	--	COILING METAL DOOR		
44	(PR) 3'-0"x7'-0"x1-3/4"	H	4	5	--	--	28	27	--	H.M. FRAME WIDTH 81"		
45	3'-0"x7'-0"x1-3/4"	K	15	1	1/4" WIRE	20 MINUTE	19	19(SIM)	29(SIM)			
46	3'-0"x7'-0"x1-3/4"	H	3	4	--	--	28(SIM)	30(SIM)	29	H.M. FRAME WIDTH 81"		
47	3'-0"x7'-0"x1-3/4"	H	2	4	--	--	28(SIM)	30(SIM)	29	H.M. FRAME WIDTH 81"		

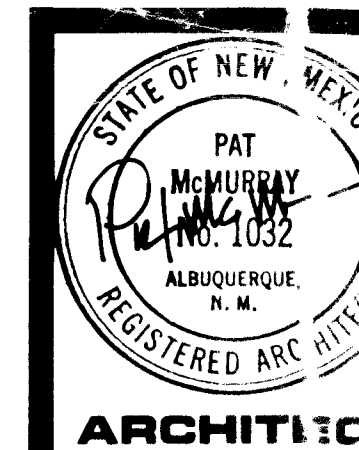
WINDOW SCHEDULE							
MARK	SIZE	MATERIALS		DETAILS			REMARKS
		GLASS	FRAME	HEAD	JAMB	SILL.	
A	10'-0" x 4'-0"	DOUBLE GLAZED	ALUM.	2	2,3	1	SEE FRAME LLEV. & NOTES
B	SEE WINDOW PLAN SHEET A-13	SINGLE GLAZED	ALUM.	6	4	5(SIM)	SEE GENERAL NOTE #1 SHEET A-4
C	6'-8" x 6'-8"	DOUBLE GLAZED	ALUM.	6,8	4,7	5	SEE FRAME ELEV. & NOTES
D	4'-0" x 6'-8"	DOUBLE GLAZED	ALUM.	6,8	4,7	5	SEE FRAME ELEV. & NOTES
E	4'-7" x 4'-6" x 8'-4"	DOUBLE GLAZED	ALUM.	10(SIM)	4,9	11	SEE FRAME ELEV. & NOTES
F	SEE BUILDING ELEVATIONS FIELD MEASURE	DOUBLE GLAZED	ALUM.	10(SIM)	4(SIM)	--	SEE GENERAL NOTE #2 SHEET A-4
G	3'-0" x 7'-2"	SINGLE GLAZED	H.M.	20	20(SIM)	21	SEE ELEVATION & NOTES



DOOR ELEVATIONS



FRONT ENTRANCE ELEVATION



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NORTHEAST HEIGHTS SUBSTATION

ALBUQUERQUE, NEW MEXICO

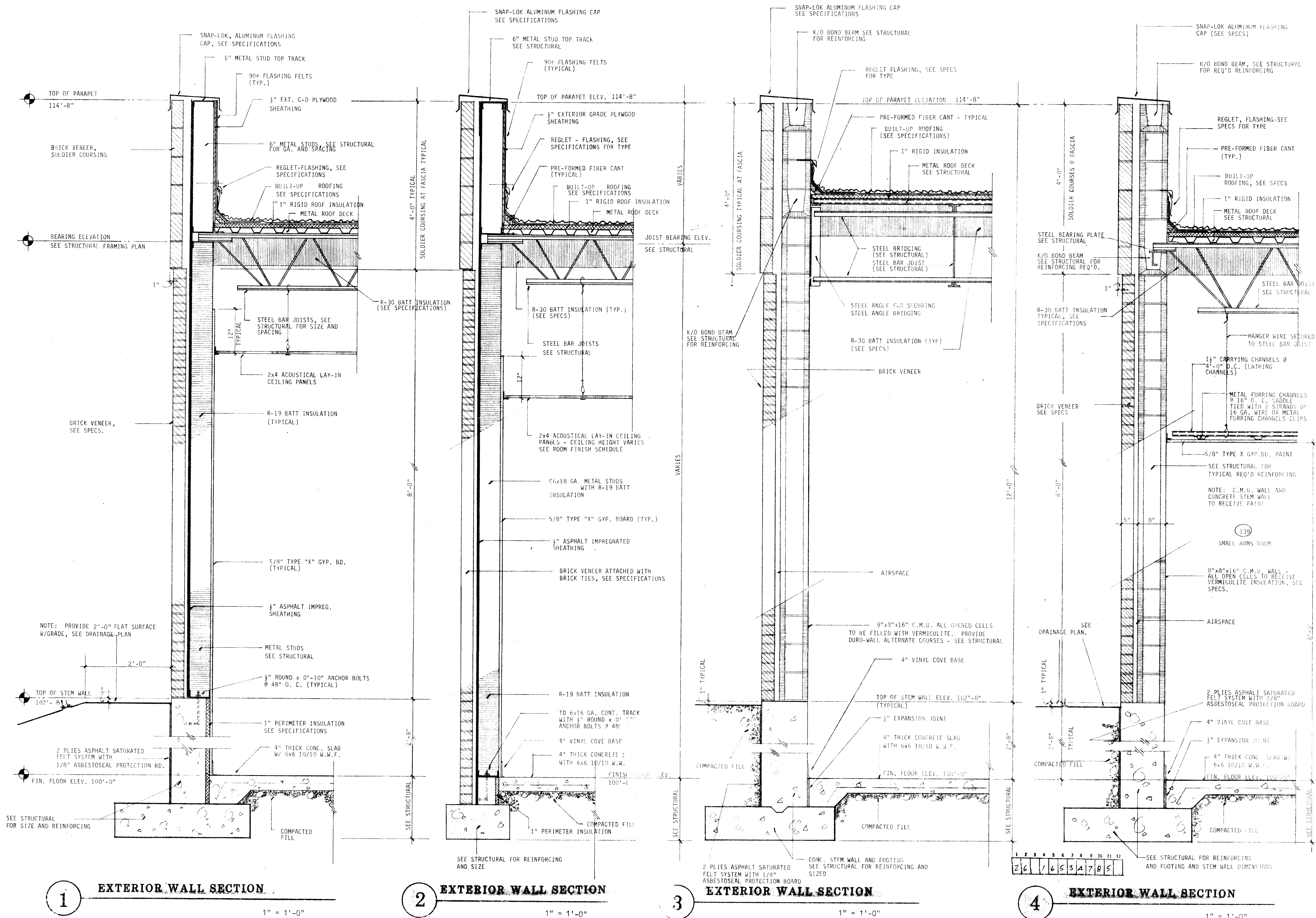


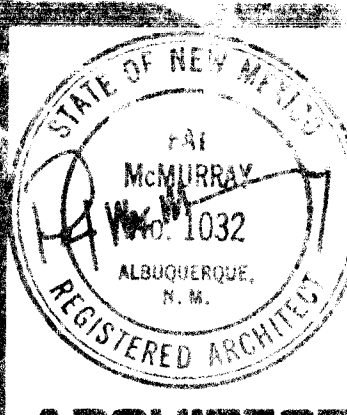
PROJECT NO. 8208

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DATE

NOVEMBER, 1983





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NORTHEAST HEIGHTS SUBSTATION

ALBUQUERQUE, NEW MEXICO



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DATE

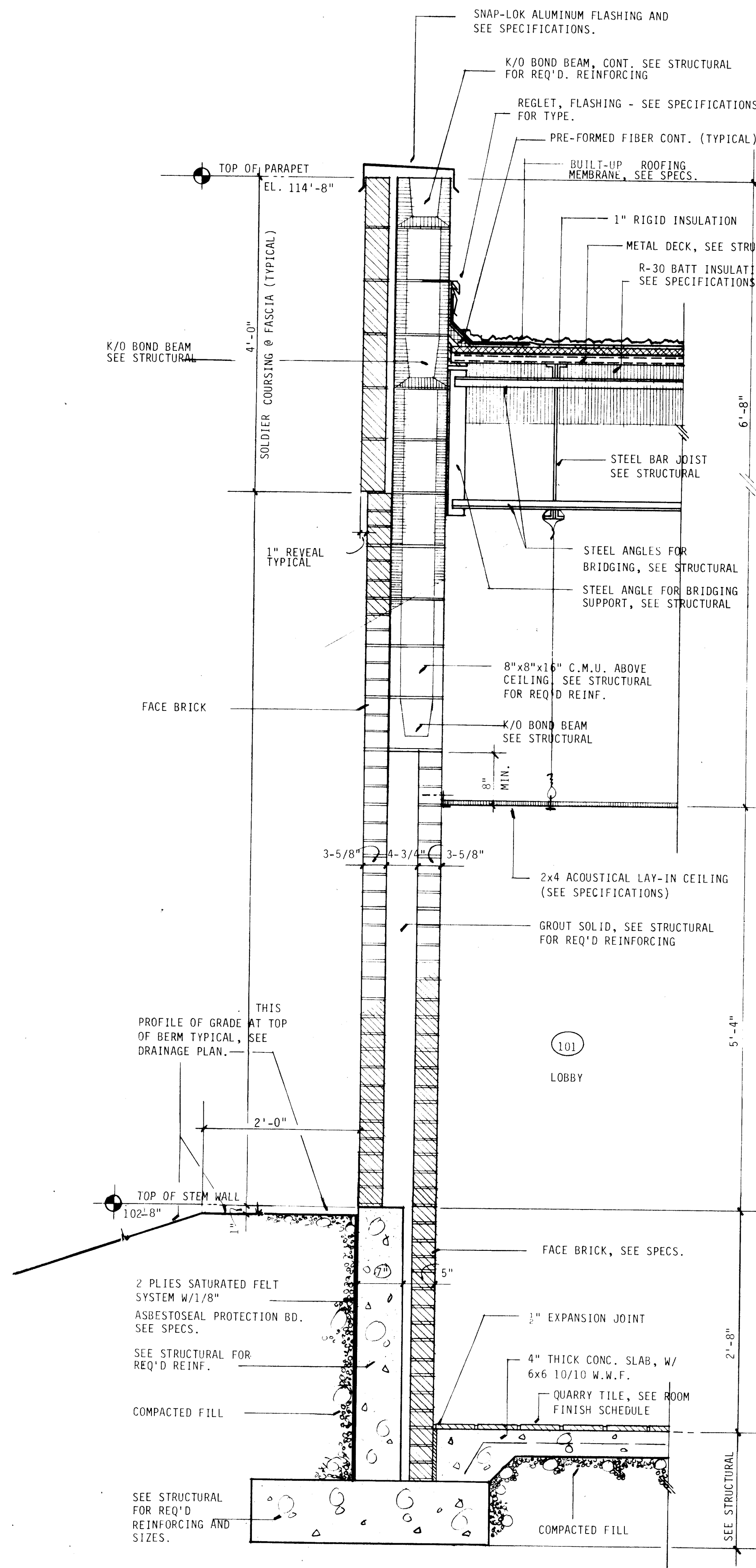
NOVEMBER, 1983

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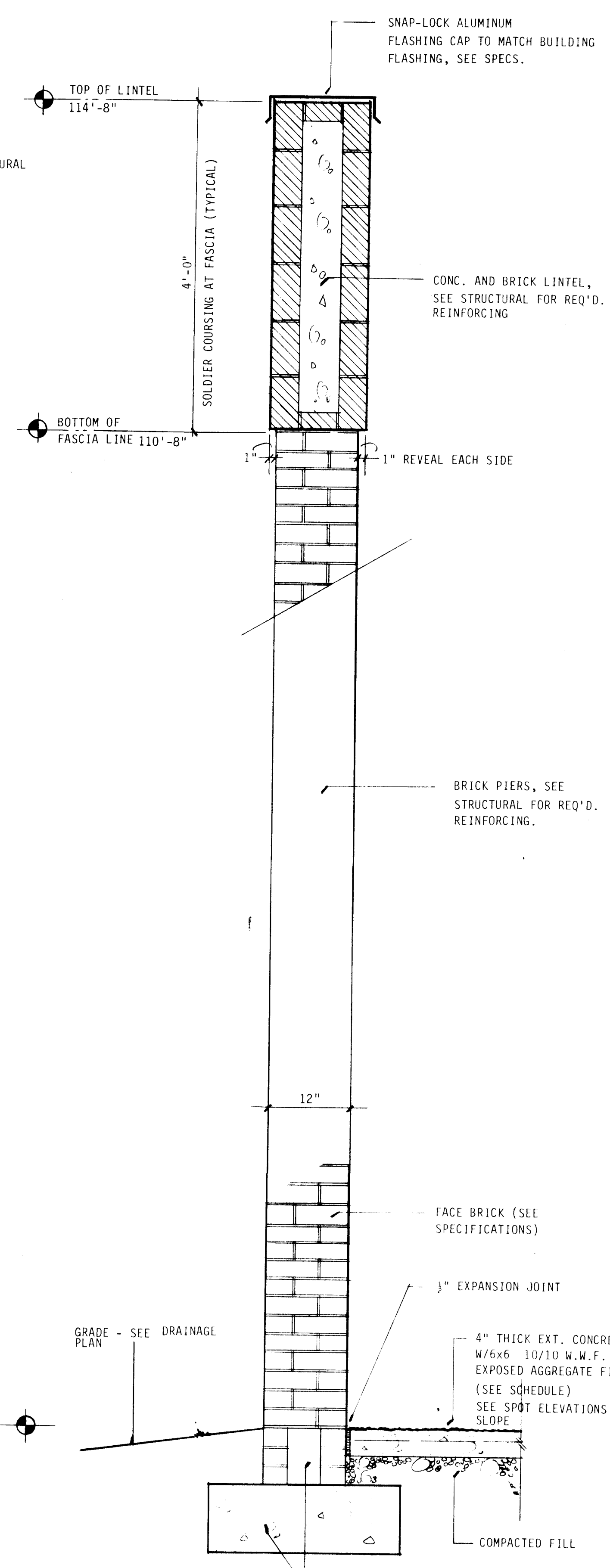
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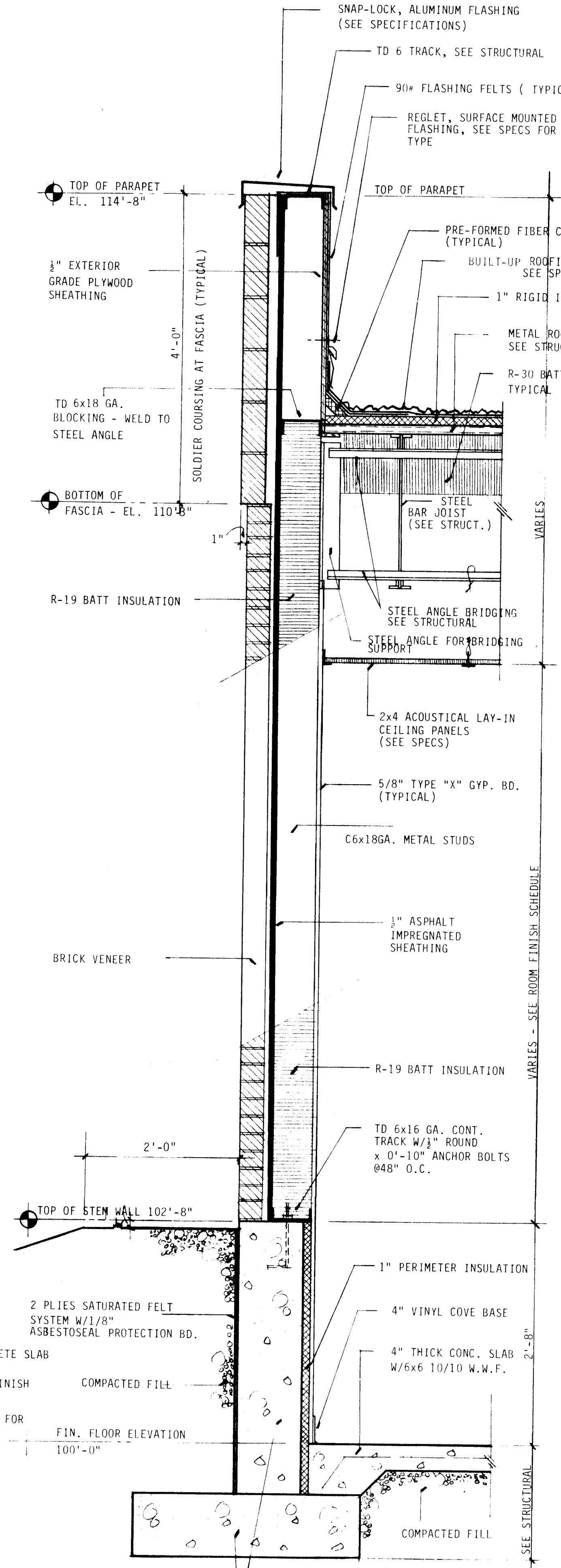
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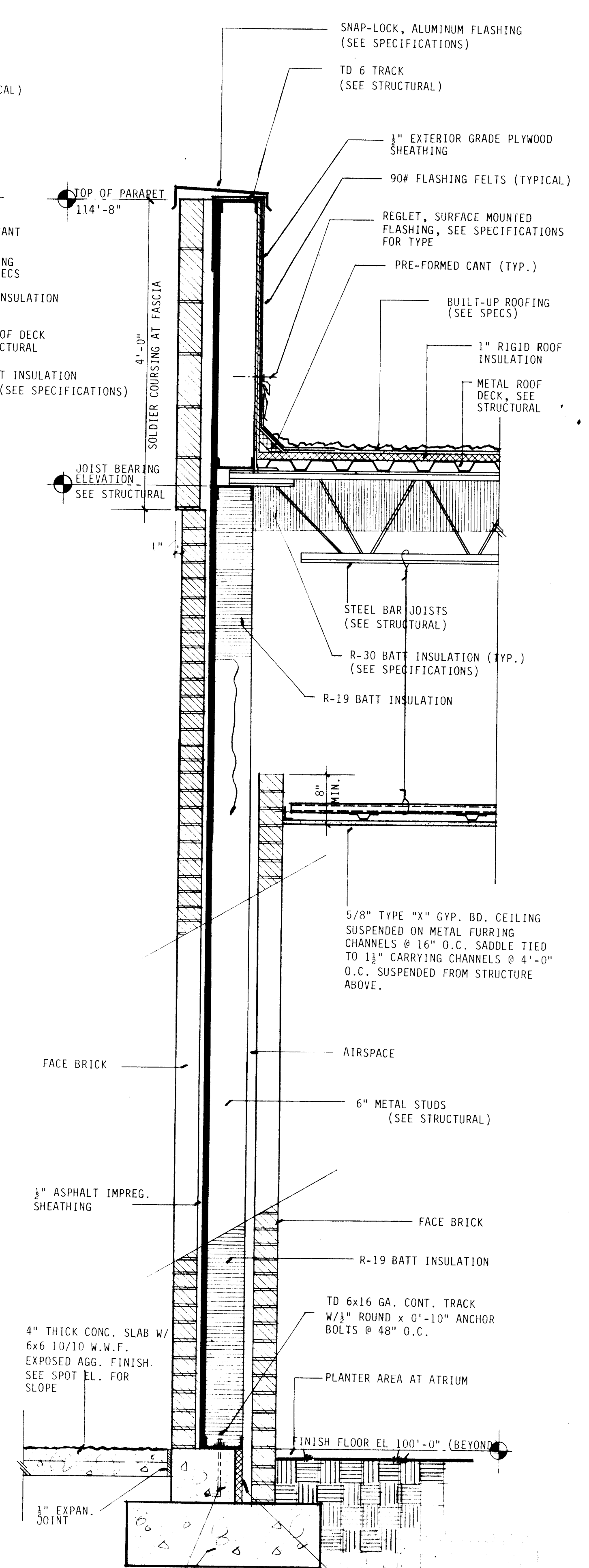
1 EXTERIOR WALL SECTION
1" = 1'-0"



2 SECTION AT BRICK LINTEL
1" = 1'-0"



3 EXTERIOR WALL SECTION
1" = 1'-0"



4 EXTERIOR WALL SECTION
1" = 1'-0"



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**ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION
ALBUQUERQUE, NEW MEXICO**



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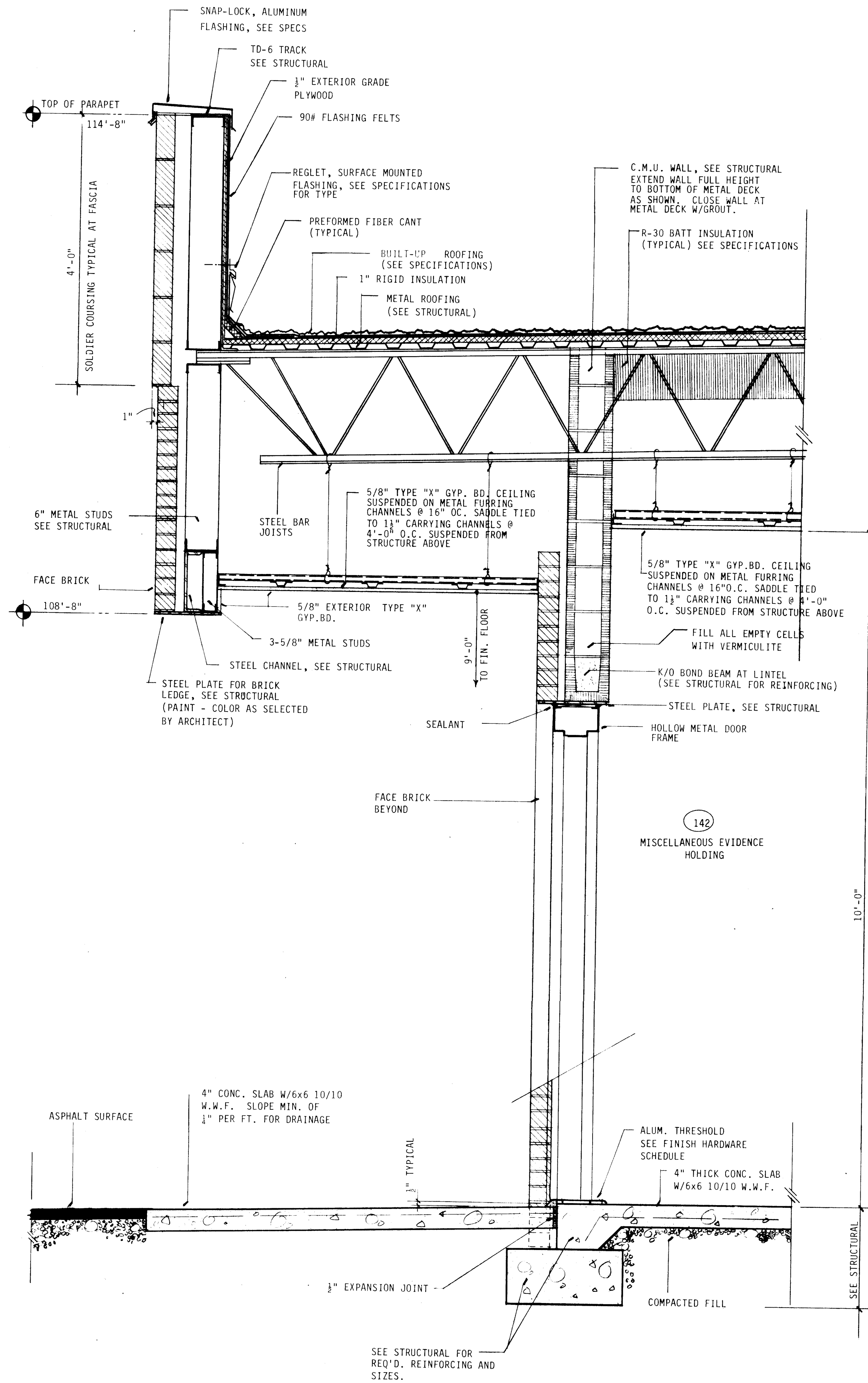
DATE
NOVEMBER, 1983

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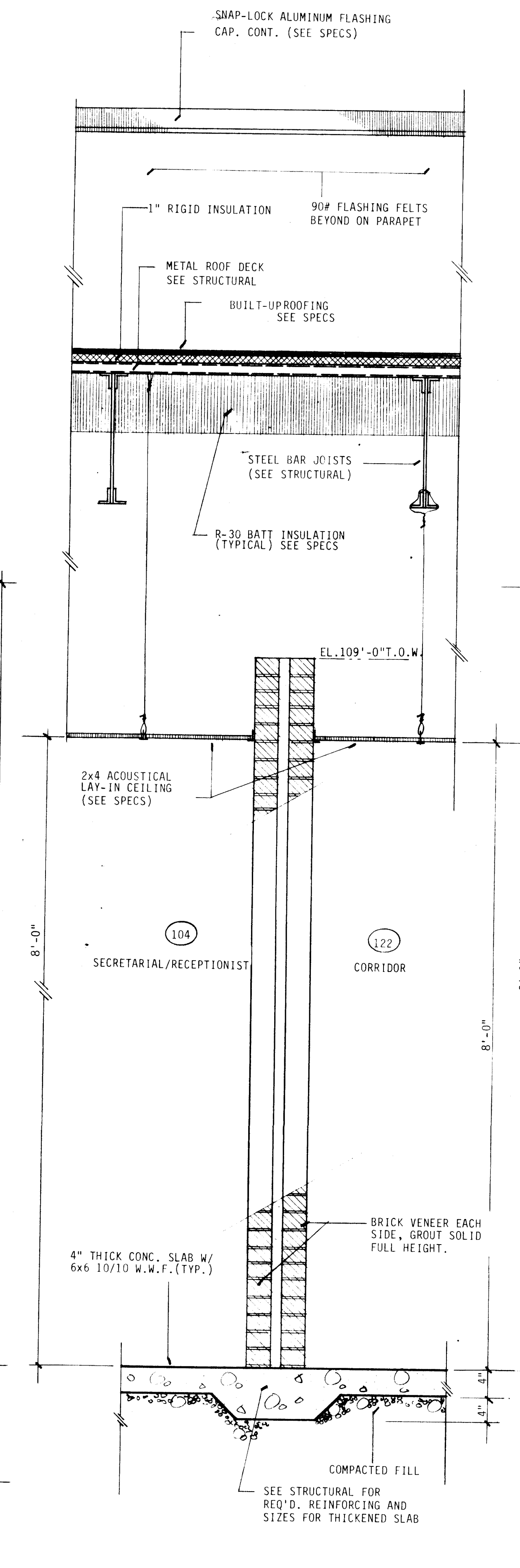
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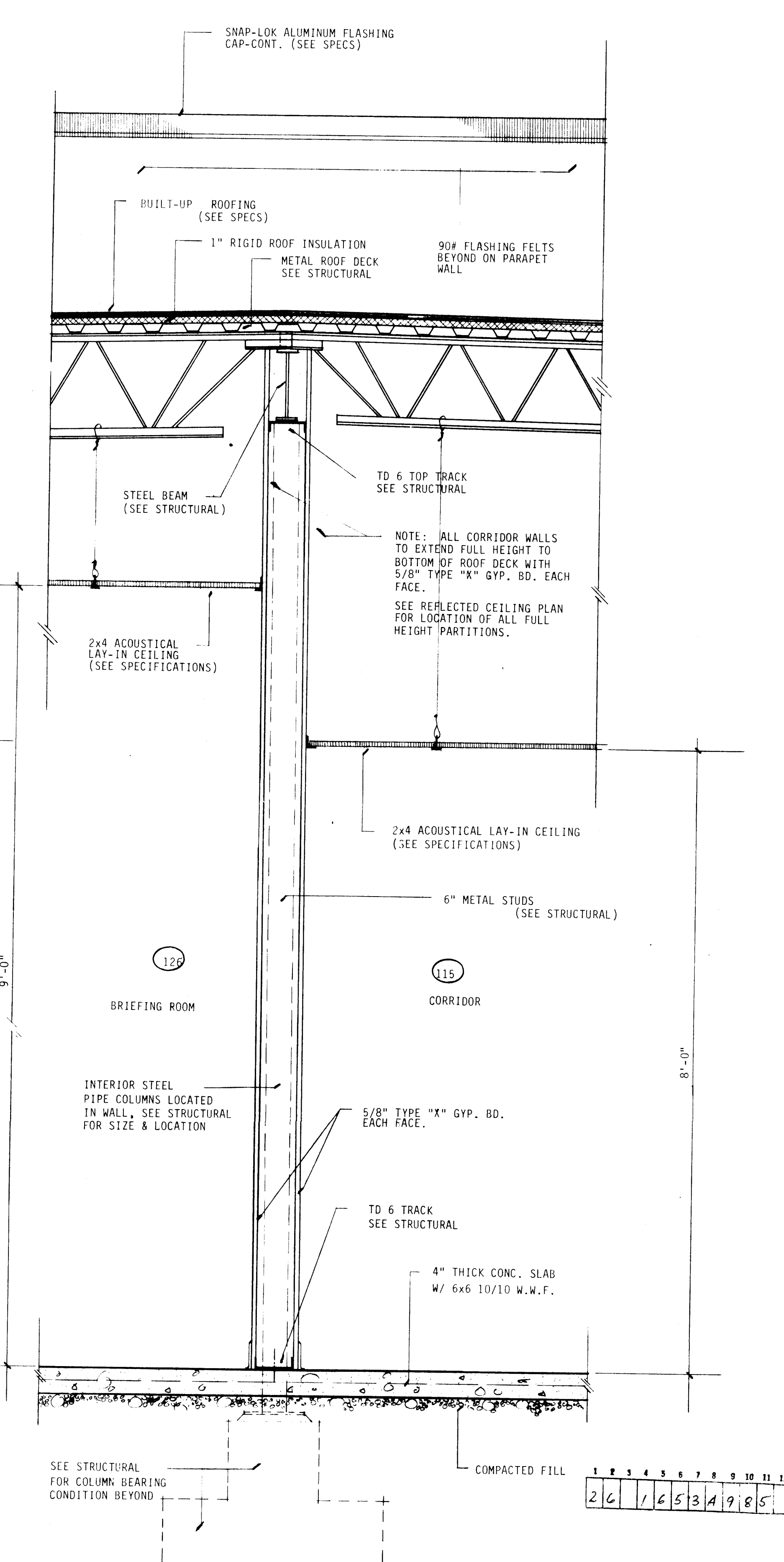
1 EXTERIOR WALL SECTION

1" = 1'-0"



2 INTERIOR BRICK WALL SECTION

1" = 1'-0"



3 INTERIOR WALL SECTION AT COL. LINE

1" = 1'-0"

2'-0" DRINKING FOUNTAIN (MIN. 1" x 1" PL. LEVEL)
3'-4" FOR NON-MOUNTED FOUNTAIN
1'-0 1/2"
ELECTRIC DRINKING FOUNTAIN, ELEC. SUPPLY CONCEALED FINISH PER SPECS.
BASE
FLOOR LINE
SEE: FL. PL. FOR EXACT LOCATIONS

DRINKING FOUNTAIN 1

4'-0"
6'-0"
SEE: ENLARGED RESTROOM ELEV. FOR EXACT LOCATION

HANDICAPPED MIRROR 2

1'-0"
2'-0"
SEE: ENLARGED RESTROOM PLANS FOR EXACT LOCATIONS

TOWEL DISP./WASTE RECEPT 3

1'-0"
2'-0"
Mop Hanger #689-CC. 24" long x 3" wide, 18 Ga. #302 stainless steel with three (3) rubber tool grips.
Hose and Hose Bracket #832-AA. 30" long flexible, heavy duty 1/2" rubber hose, cloth reinforced, with 1/2" chrome coupling at one end. Bracket is 5" long x 3" wide, 18 Ga. #302 stainless steel with rubber grip.
NO SCALE

MOP SINK DETAIL 4

SEE SPECIFICATIONS FOR: TYPE, STYLE, LOCATION AND IDENTIFICATION
RADIUS CORNERS - TYP.
1'-0 1/2"
1'-0"
RM. NAME-TYP.
RM. NAME-TYP.

ROOM IDENTIFICATION SIGN 6

ATTACH METAL STUDS TO UNDERSIDE OF STRUCT. (SEE STRUCT. SHTS) NOTE: USE SLIP-TRACK RUNNER!
ACROUSTICAL CEILING TILE: SEE SPECS
5/8" TYPE "X" GYP. BD. @ E. SIDE
STEEL STUDS: SIZE 4 SPRING PER PLAN.
BOTTOM RUNNER, ATTACH PER STRUCT. SH. NOTES VINYL BASE
SCALE: 1/4" = 1'-0"

TYP. INT. PARTITION 7

MODEL TLA DETAILS
ACRYLIC PLASTIC DOMES
BUTYL SEALANT
ALUM. RETAINING WALL
CONDENSATE GUTTER
PVC CAP
THERMAL BREAK
1" FIBERGLASS INSULATION
ALUM. CURB
WIDE CURB DIMENSIONS
PVC SPACER
NOTE: BEARING EL. FOR INTEGRAL CURB VARIES. INSTALL AT HIGHEST POINT ON ROOF & HOLD CONSTANT AROUND PERIMETER FOR LEVEL INSTALLATION.
1" = 1'-0"

SKYLIGHT DETAILS 8

Mat shall be constructed of galvanized cold rolled strip steel assembled in a 1" x 1" mesh 13 gauge galvanized spring steel wire. Ends shall be closed with smooth plastic tubing. When used as an entrance mat, it is recommended that style #1003 aluminum recess frame be used.
THICKNESS: 3/8" WIDTHS: 16" minimum 12 feet maximum. Length: Any length desired. Weight: Approx. 1.6 lbs. per sq. ft.
NOTE: MAT FRAME SHALL BE 3'-0" x 5'-0". SEE FOUNDATION PLAN FOR EXACT LOCATION.
INSTALLATION: AFCC MAT FRAMES SHALL BE ASSEMBLED AT THE JOB SITE AND INSTALLED SO THAT UPPER EDGE WILL BE LEVEL WITH THE FINISHED FLOOR SURFACE. A CEMENT BASE 1" BELOW FLOOR SURFACE SHALL BE SCREDED INSIDE THE MAT RECESS FRAME AREA, USING THE EDGE PROVIDED BY THE FRAME AS A GUIDE. THE FRAME SHALL BE ANCHORED INTO THE CEMENT WITH ANCHOR PINS A MIN. OF 24" O.C. CORNER PINS SHALL BE INSTALLED AT ALL CORNERS OF THE FRAME.
NO SCALE

MUD MAT 10

CMU
BRICK
INSECT SCREEN
3/8" W STEEL BAND W/SET SCREW
18 GA. SHEET METAL INSERT
1" Wx1/8" D STL. BAND SPACER
6" DIA. GALV. STL. PIPE
SAND
CONC.
WATERPROOF MEMBRANE
1" = 1'-0"

BULLET TRAP 11

HOOK SYSTEM (14)
WALL MOUNTED HAT & COAT RACK, CENTER ON WALL IN ROOM 144.
13
NO SCALE

COAT RACK 13

SPECIFICATIONS
INSURANCE: Mercantile and Broad Form "B" rated.
DOOR: 7" dia. (6-5/8" clear), 1" thick forged steel door with U.L. Group II - one million change lock and U.L. approved relocker. Nickel plated and jeweled.
DOOR FRAME: Forged and machined steel.
BODY: 1/4" thick steel, electrically welded. Exterior grey urethane paint. Interior green flocking.
DIMENSIONS
MODEL LONG INSIDE DEEP LONG OUTSIDE DEEP APPROX. WT. LB.
T648 12" 9" 6" 12 1/4" 10" 8 1/2" 67
T648SB 12" 9" 6" 12 1/4" 10" 8 1/2" 67
NOTE: CLEAR DOOR OPENING - 6 1/2". DEPOSITORY SLOT ON T648SB - 1/2" BY 5 1/2".
Major Safe Co., Inc. - 3600 East Olympic Boulevard Los Angeles, Ca. 90023 - Telephone (213) 281-0141
NO SCALE

FLOOR SAFE 14

SECTION
PARTIAL ELEVATION
SCREW THROUGH @ EA. STUD
3 EQ. SPACED BRACES - SCREWED BOTH SIDES
ROLL-UP PROJECTION SCREEN
END PANELS EA. SIDE
NOTE: ENTIRE VALANCE TO BE MADE OF 1" NOM. RED OAK WITH CLEAR NATURAL FINISH. RELIEVE ALL FRONT EDGES TO A ROUND EDGE. COUNTERSINK ALL EXPOSED SCREWS & FILL HOLES FLUSH.
1 2 3 4 5 6 7 8 9 10 11 12
2 6 1 6 5 3 1 0 8 5
3" = 1'-0"

PROJECTION SCREEN VALANCE 16

STATE OF NEW MEXICO
PAT. MCMURRAY
ARCHITECT
REGISTERED ARCHITECT
ARCHITECT
ENGINEER
ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION
ALBUQUERQUE, NEW MEXICO
PROJECT NO. 8208
CITY PROJECT NO. 1653
DATE NOVEMBER, 1997
REVISION
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SHEET NO.



MM
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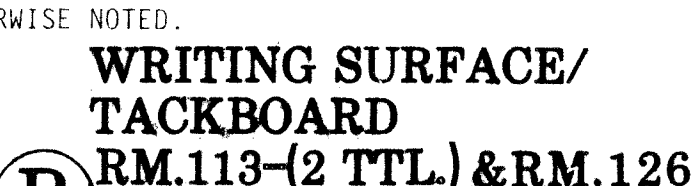
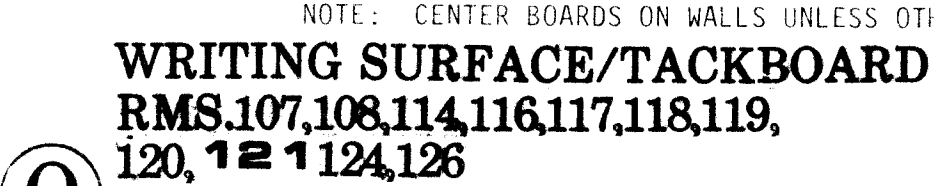
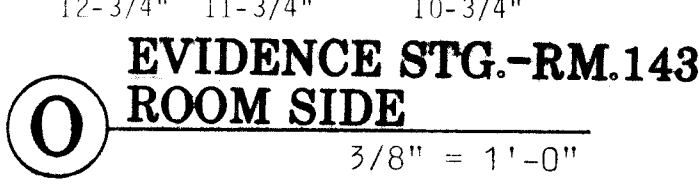
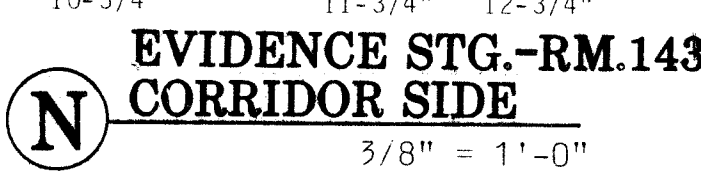
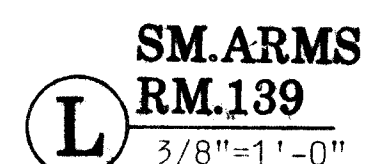
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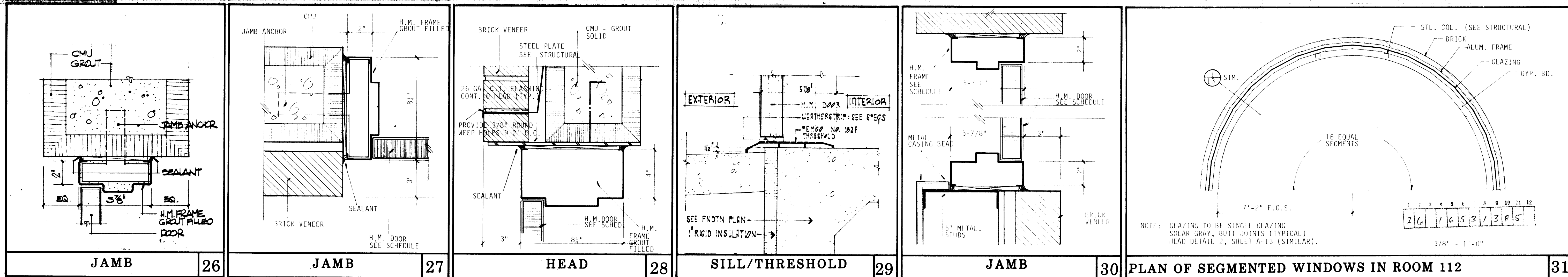
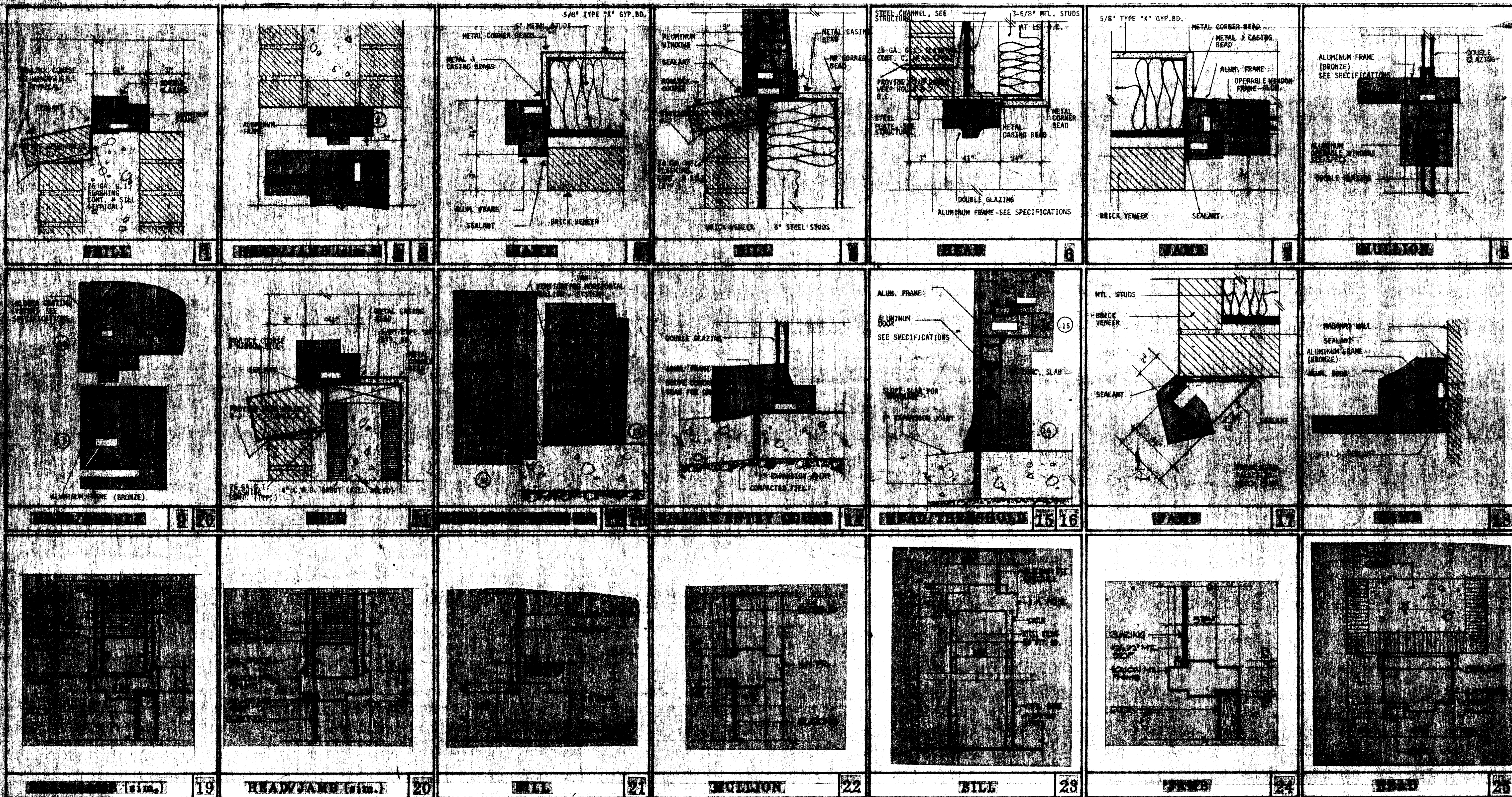
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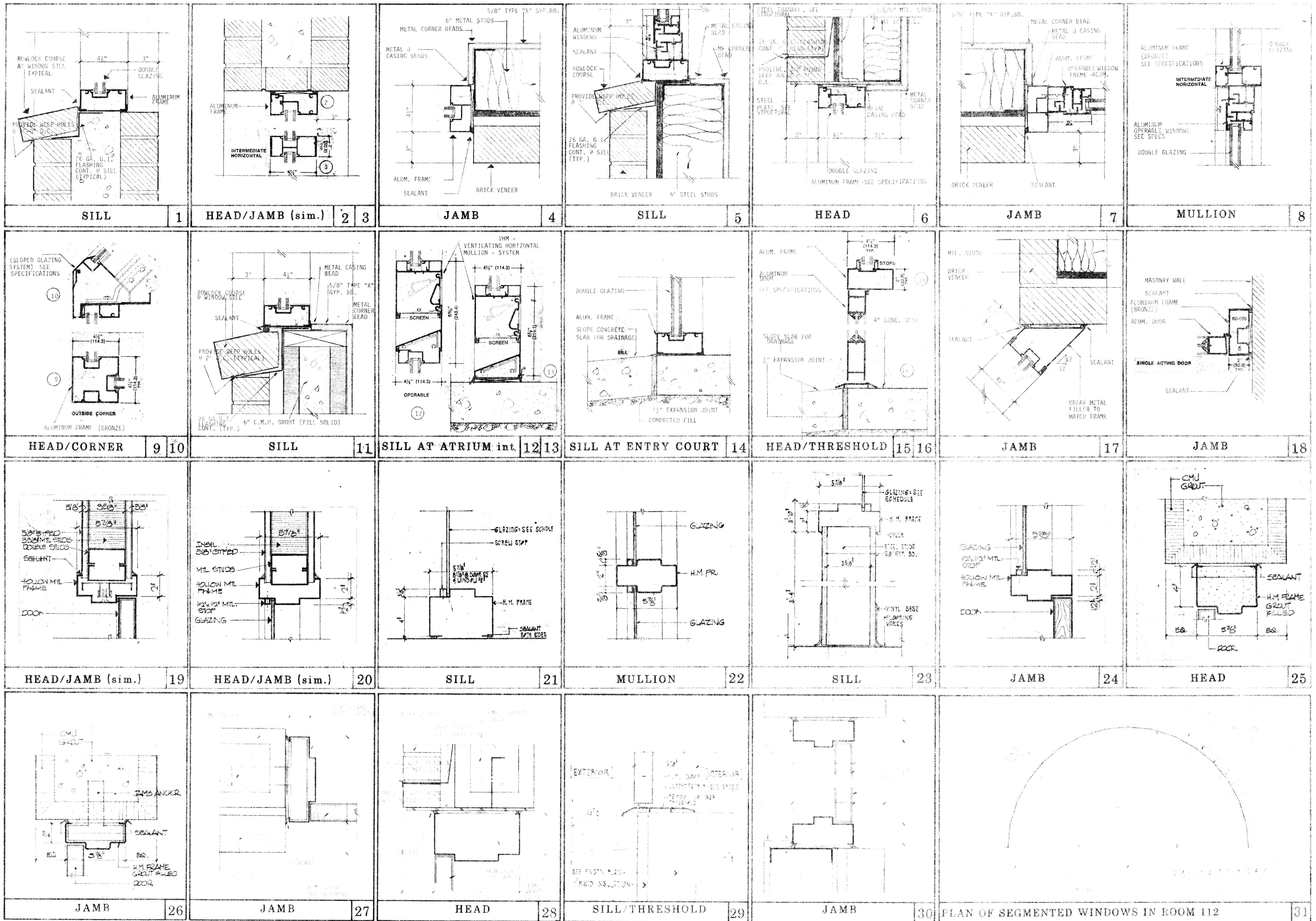
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GENERAL NOTE: CONTRACTOR TO VERIFY ALL FIELD DIMENSIONS AND CONDITIONS.

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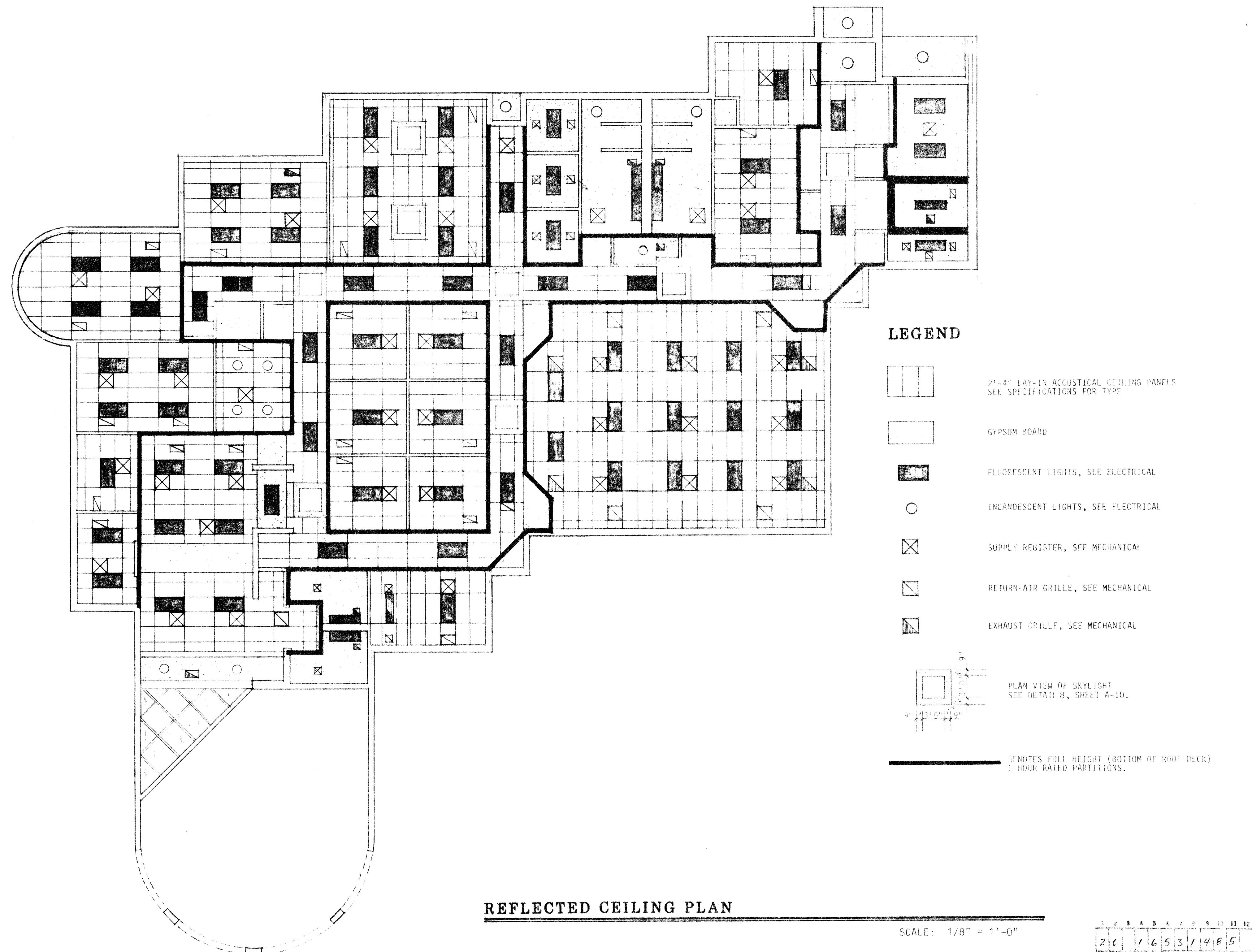
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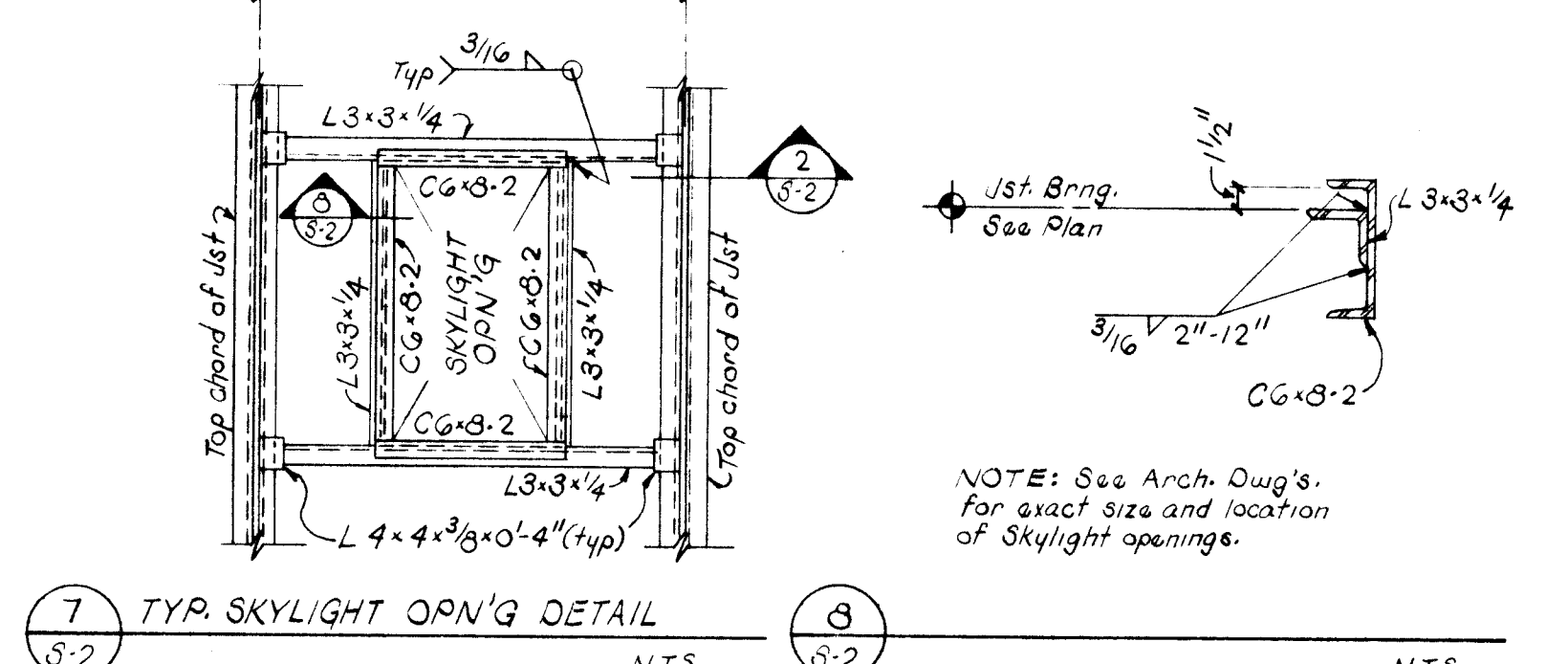
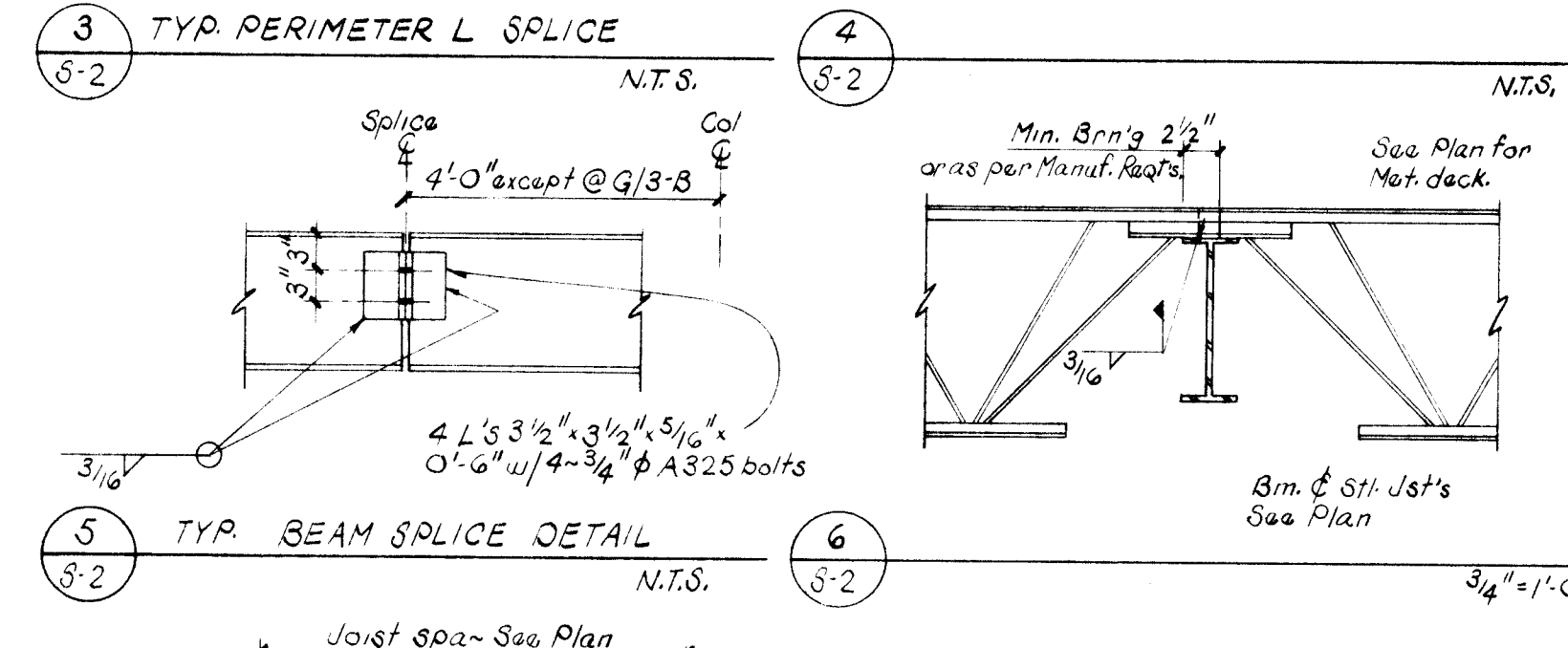
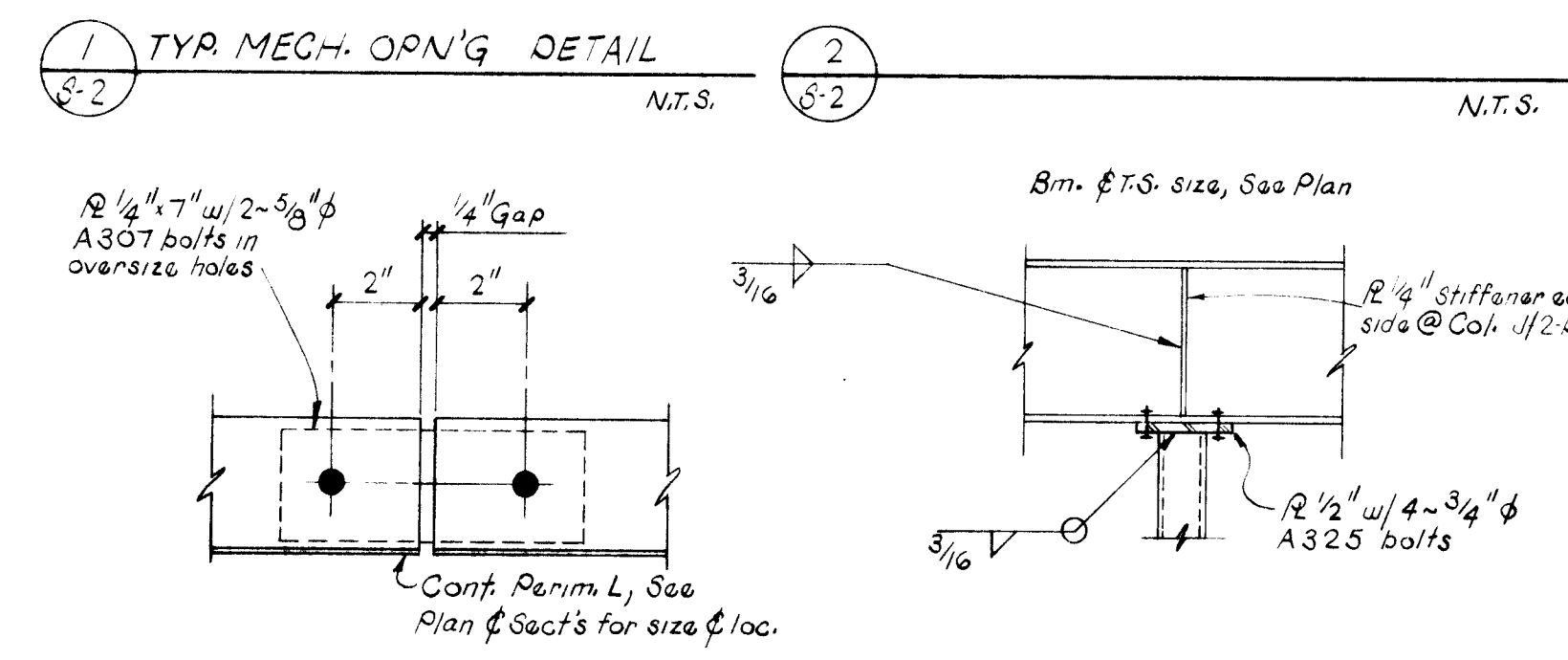
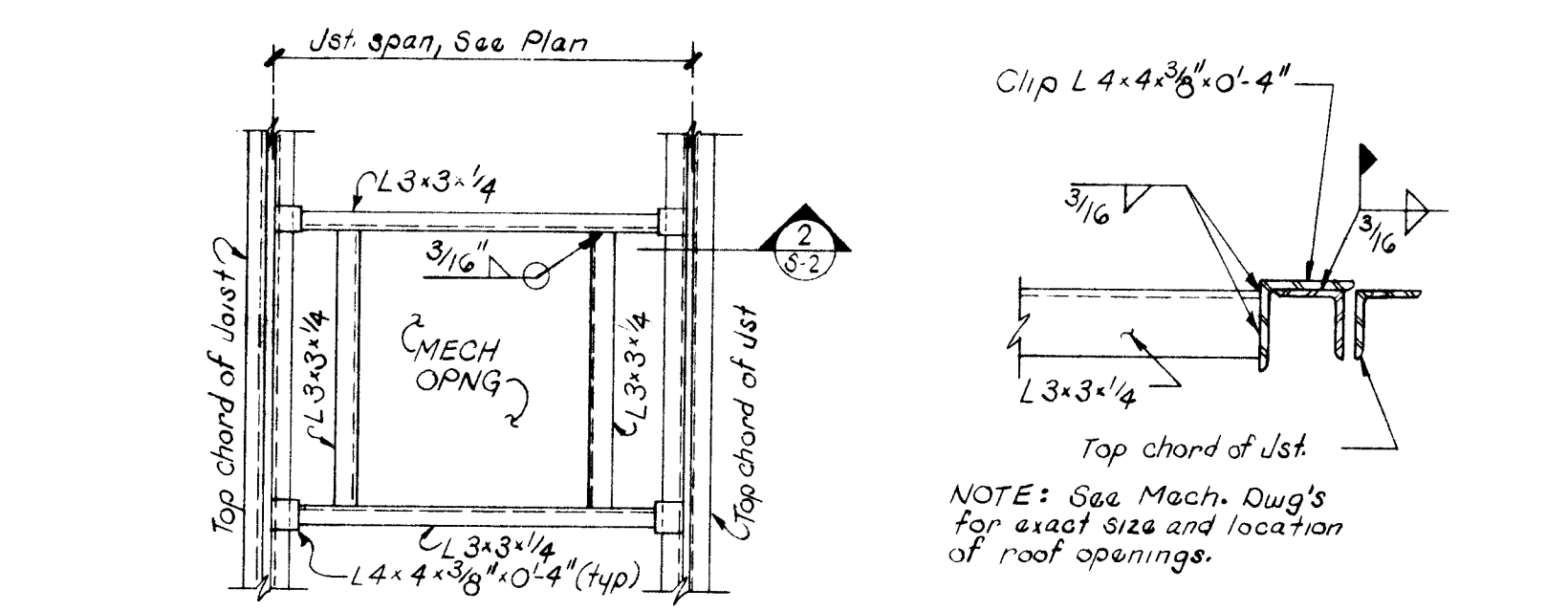
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REFLECTED CEILING PLAN

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

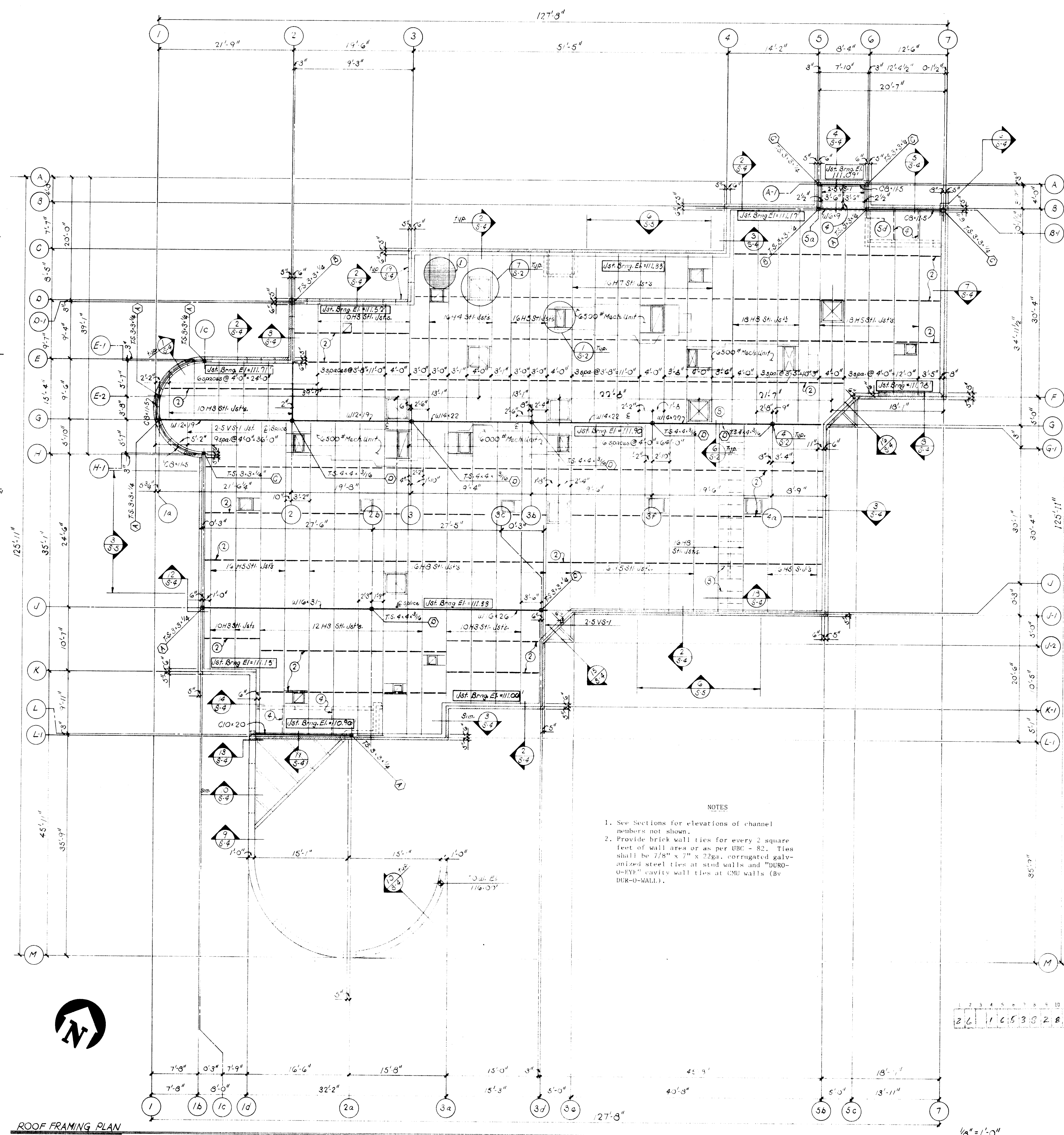
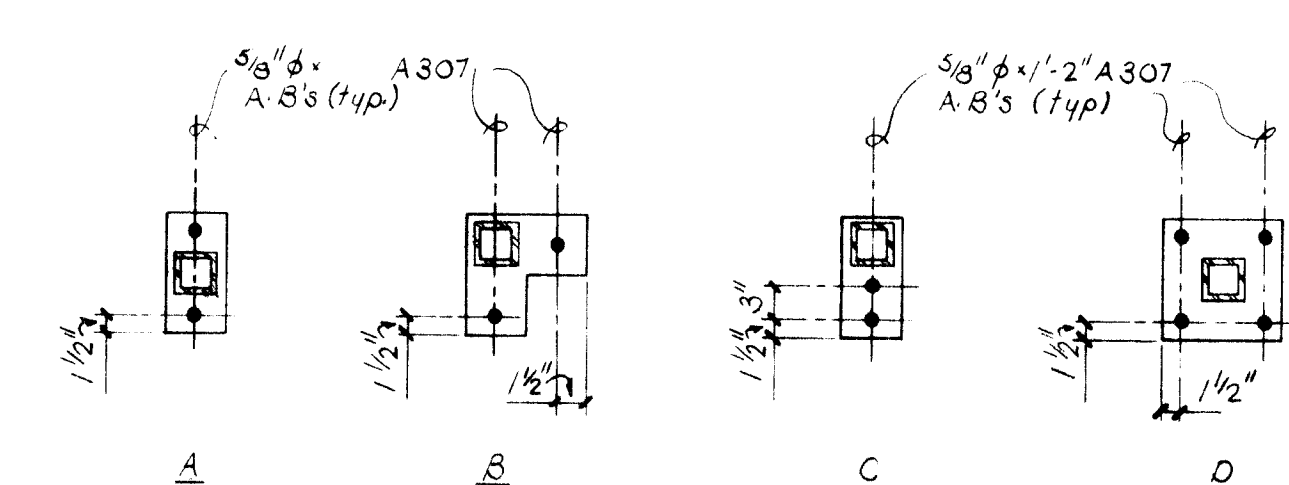
SUBSTATION



- KEYED NOTES**
1. See Section for elevations of channel members not shown.
 2. Provide brick wall ties for every 2 square feet of wall area or as per UBC - 82. Ties shall be 1/2" x 1/2" x 22ga. corrugated galvanized steel ties at stud walls and "BURR-ON-PY" cavity wall ties at CMU walls (See BURR-ON-PY).
 3. Bridging L 1" x 1/2" x 8" spaced as shown on plan, weld to top & bot chords of 8th Ulf.
 4. Support L 3" x 3" x 1/4" @ 2'0" o.c., See Plan for locations. See Arch. Draw'g for exact size and location of Skylight openings.
 5. Diagonal L 3" x 3" x 1/4" Ulf'd to top chord of 8th Ulf. and to Lintel at open end.

MARK	PLATE SIZE
A	3/4" x 4" x 10"
B	3/4" x 4" x 10"
C	3/4" x 4" x 10"
D	3/4" x 11" x 11"

NOTE: Base Plate Skewed @ Cal's 25/114 and 9/114 See Plan.



- NOTES**
1. See Sections for elevations of channel members not shown.
 2. Provide brick wall ties for every 2 square feet of wall area or as per UBC - 82. Ties shall be 1/2" x 1/2" x 22ga. corrugated galvanized steel ties at stud walls and "BURR-ON-PY" cavity wall ties at CMU walls (See BURR-ON-PY).

ARCHITECT

ENGINEER

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NORTHEAST HEIGHTS SUBSTATION

ALBUQUERQUE, NEW MEXICO

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1653

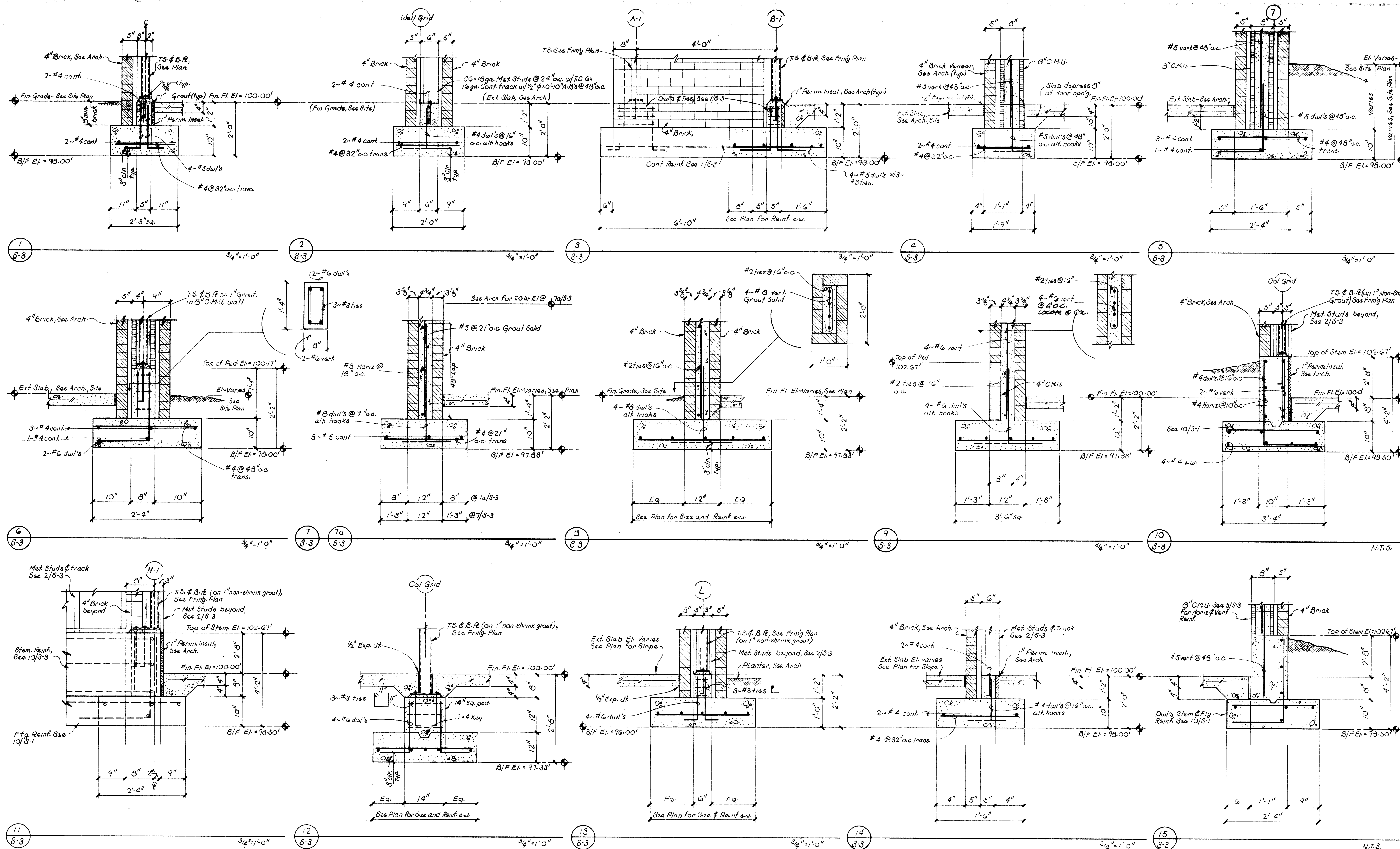
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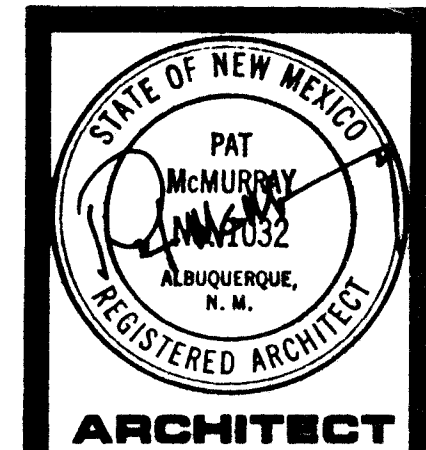
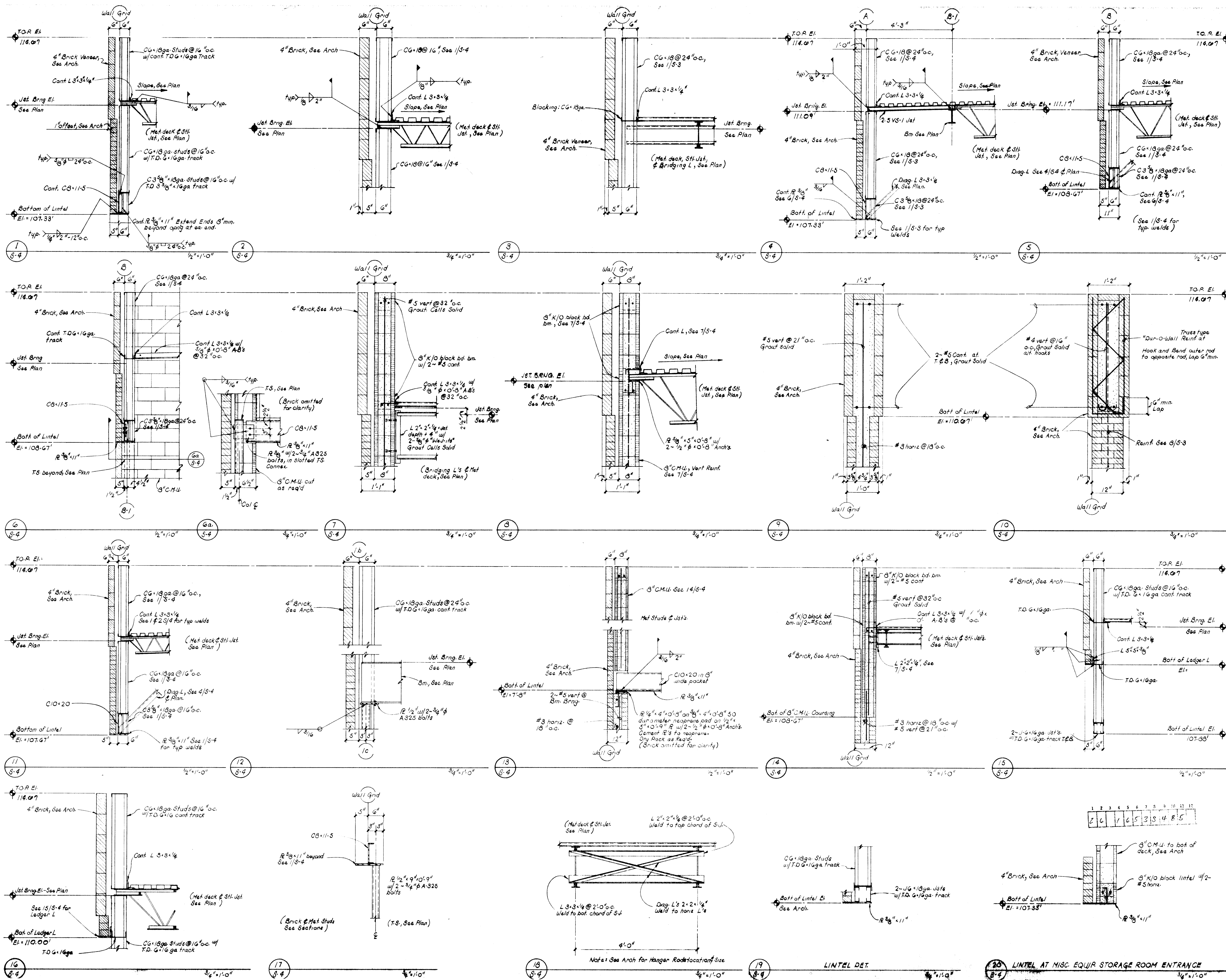
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**ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION**
ALBUQUERQUE, NEW MEXICO

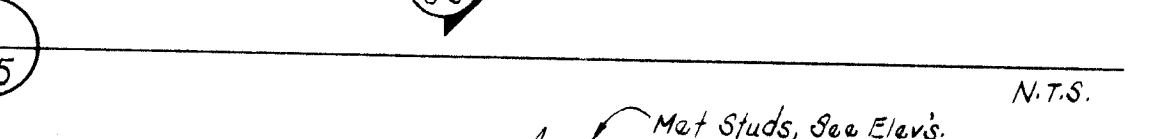
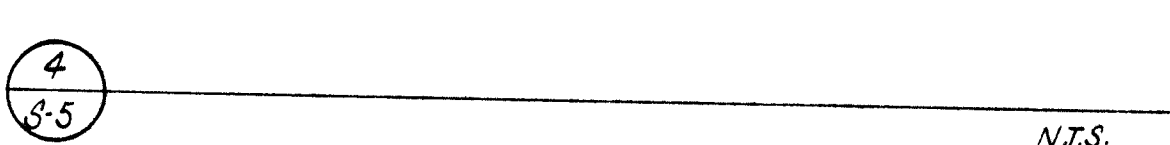
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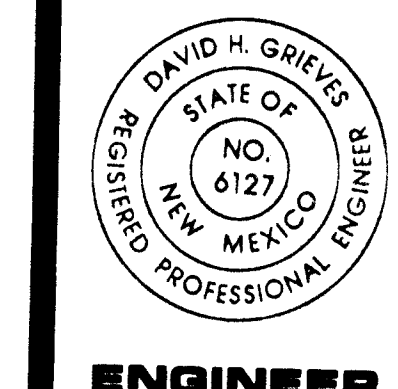
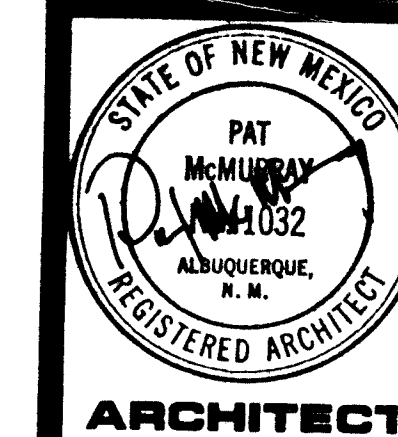
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1. DESIGN DATA:
a. Codes:
 Uni-form Building Code, 1982 Edition
 ACI 318-77
 AISC Manual of Steel Construction, 8th Edition
b. Item loads:
 1. Live loads:
 Roof 20 psf
 Slab (1st floor) $2 \text{ in.} \times 13 \text{ psf}$, $C_p = 1.2$ (Exposure 1), $C_e = 1.3$, $I = 1.0$
 Zoned (2nd floor)
 2. Maximum allowable soil bearing pressure 2000 psf#
 3. Allowable 1/3 stress increase for combined gravity and/or seismic loading.
 4. All concrete shall have a minimum compressive strength at 28 days as listed below:
 a. Boredrills: $f'_c = 3000 \text{ psi}$ - (Air entrained) All exterior slabs, stairs and curbs and gutters.
 $f'_c = 3000 \text{ psi}$ - (Air entrained) All interior slabs on grade, stem walls and footings.
 b. Cast-in-place: $f'_c = 3180 \text{ psi}$ - (Air entrained) All slabs, stairs and footings.
 5. All reinforcing steel shall be fabricated and placed in accordance with the minimum yield strength of 60,000 psi.
 (ACI 318-77) and the Standard Detailing Manual (ACI 315-65).
 6. Provide bar supports and spacers for rebar in accordance with ACI 315-65 and chairs with 22 ga. steel plates for all rebar
 slabs on grade.
 7. Where lap joints in reinforcing occur, the minimum lap shall be made as follows: minimum lap for vertical reinforcing 30 bar diameters
 or 1'-6" minimum, horizontal reinforcing 30 bar diameters or 1'-6" minimum unless otherwise noted.
 8. Reinforcing in walls and beams shall be continuous around corners or have corner bars of the same size and
 spacing as the horizontal bars. Reinforcing in beams shall be continuous around corners or have corner bars of the same size and
 concrete cover for reinforcing shall be as follows:
 a. Footings - 1" from bottom and sides.
 b. Grade Beams and Walls - 3" from bottom, 2" from top and 1/2" from sides.
 9. Slabs on Grade - At center of concrete slab unless otherwise noted on drawings.
 10. The Contractor shall be responsible to see that all REBAR is properly aligned and tied in place before placing concrete. All
 column, wall dowels and vertical steel shall be accurately located and secured in place so that it remains in this position
 until casting operation. Any REBAR found to be improperly installed shall be removed and replaced at no additional
 cost to the Owner.
 11. Shop drawings shall be furnished for approval before any fabrication and erection is started. Properly executed shop drawings
 shall be rejected and resubmitted.
 12. All structural and miscellaneous steel members, shapes and connections shall be ASTM A36, Tubs, columns shall be ASTM A500,
 Grade B, 1960-60 psi.
 13. The Contractor shall be responsible for checking the Architectural Drawings for all miscellaneous steel.
 14. All welding shall be done by certified welders and shall be in accordance with the latest standards of the AWS and AISC.
 15. All hollow masonry or brick to be used as shown on drawings.
 16. All masonry or brick shall be reinforced shall be marked with keel at the bottom of the wall at the cells where dowels
 occur or rebar is to be placed and grouted.
 17. All masonry or brick shall be reinforced shall be marked with keel at the bottom of the wall at the cells where dowels
 occur or rebar is to be placed and grouted.
 18. The Contractor shall verify all dimensions in the field.
 19. The Contractor shall be responsible for providing safe and adequate shoring for all parts of the structure during construction.
 20. All trades shall coordinate and verify all openings in floors, roof, walls and beams with the General Contractor.
 21. The Contractor shall be responsible for foundations under Mechanical equipment and shall coordinate size and location
 of foundations with the Mechanical Engineer.

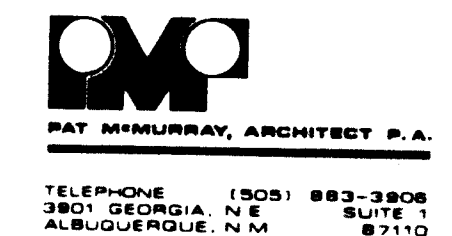


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**ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION**

ALBUQUERQUE, NEW MEXICO



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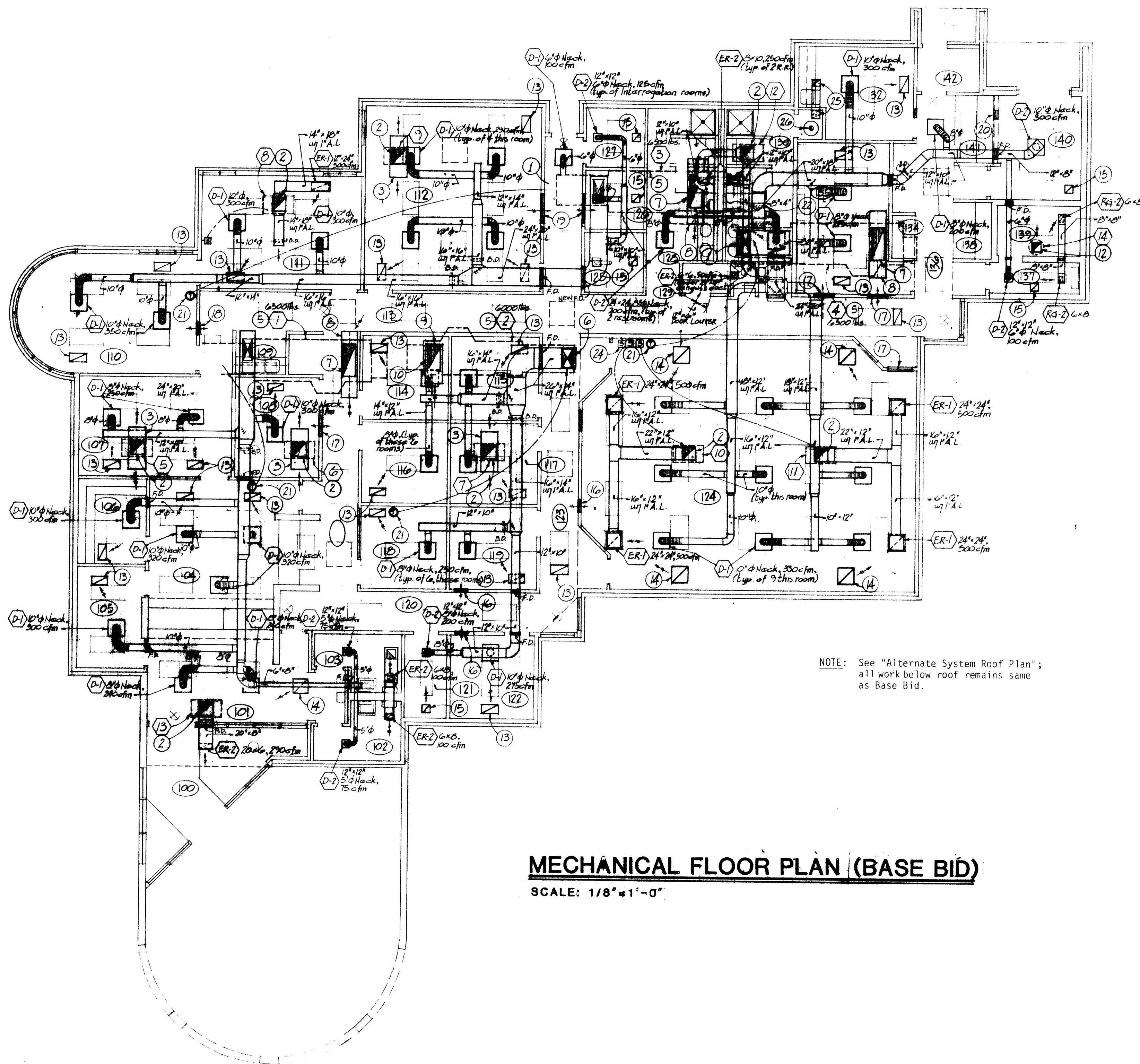
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SHEET NO.



MECHANICAL FLOOR PLAN (BASE BID)
SCALE: 1/8"=1'-0"

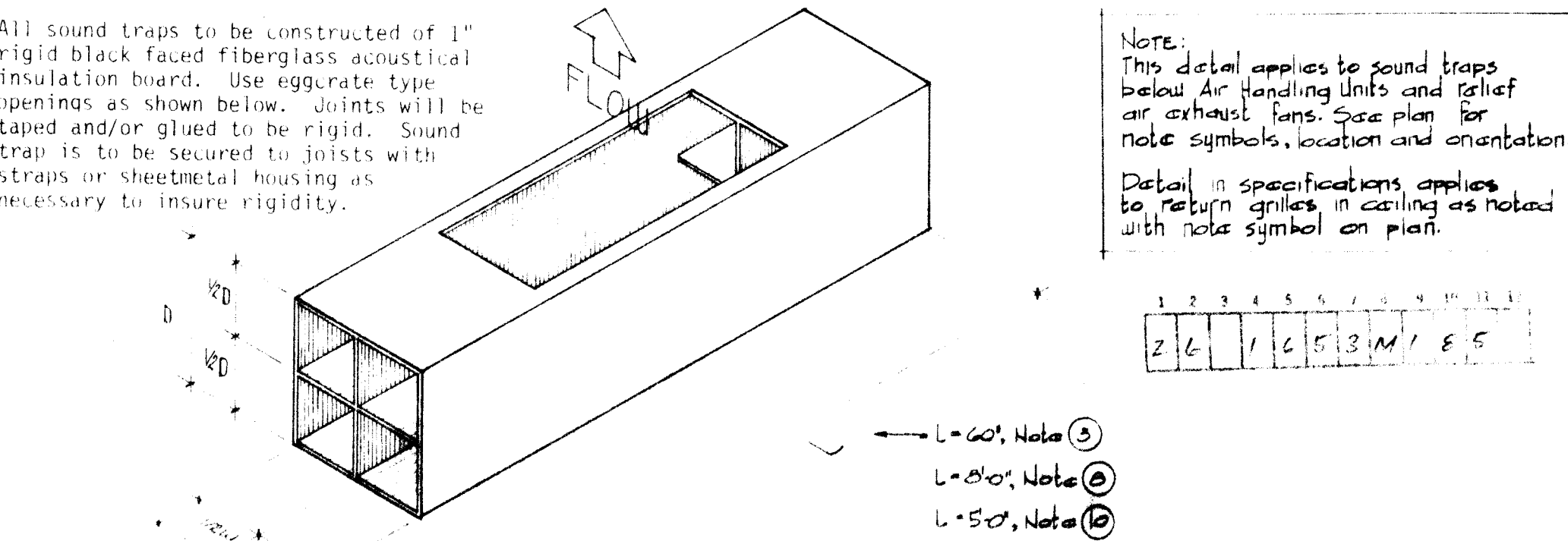
GENERAL NOTES:

- Coordinate the location of all ceiling grilles and diffusers with the light fixtures and the lay-in ceiling panel grid.
- Coordinate the location of all duct penetrations thru the roof with the structural system. Frame around each opening per Roof Framing Detail (AEM-1) in the Project Specifications.
- Provide access doors in fixed ceilings, chases and ductwork to all fire dampers, balancing dampers or other mechanical devices needing service access.
- All fire dampers shall be installed in a U.L. approved manner and shall be U.L. listed.
- B.D. = Balancing Damper. A.L. = Acoustic Liner.
- Manual Switch. F.D. = Fire Damper.
- Flexible duct runouts to diffusers shall be pre-insulated and shall not exceed 6' in total length.
- Supply duct (low pressure) runouts over 50' in total length shall be sealed at all joints with approved high pressure duct sealer.
- Install manual "Spin-In" type fittings and dampers for branch runouts to each diffuser. Branch runouts shall be same size as neck size of diffusers.

KEYED NOTES:

- 14" x 30" supply duct down thru roof from air handler.
- 20" x 20" duct up thru roof to exhaust fan, see detail in Specifications, approximately 100 lbs. weight.
- 24" x 24" x 60" sound trap up between joists. See detail this Sheet for typical construction.
- 14" x 14" duct up thru roof to exhaust fan, see detail in Specifications. Approximately 75 lbs.
- Outline of unit on roof.
- 14" x 24" supply duct down thru roof from air handler.
- 16" x 48" return air duct up from sound trap thru roof to plenum below air handler. See typical air handler detail.
- 24" x 24" x 8'-0" sound trap up between joists. See detail.
- 16" x 36" return air duct up from sound trap thru roof to plenum below air handler. See typical air handler detail.
- 24" x 24" x 5'-0" sound trap up between joists. Open at one end facing open ceiling space. Construct similar to typical sound trap.
- Exhaust air inlet, 14" x 18" with 1" A.L. above ceiling, 600 CFM with manual B.D.
- 14" x 14" ER-2 in ceiling, 150 CFM, 14" x 14" duct up thru roof to exhaust fan, see detail in Specifications. Approximately 75 lbs.
- 12" x 24" (R-1) with sound trap above.
- 24" x 24" (R-1) with sound trap above.
- 12" x 12" (R-1) with sound trap above.
- 18" x 12" or 1.5 S.F.
- 30" x 24" or 5.0 S.F.
- 18" x 18" or 2.75 S.F.
- 42" x 30" or 8.75 S.F.
- 12" x 12" or 1.0 S.F.
- Thermostat location means location of complete controls. Controls include heating thermostat, cooling thermostat, fan speed selector and mode selection switch. See Control Diagrams for more complete explanation. Devices shall be arranged neatly under direction of Equipment Subcontractor.
- N.O. motorized damper. See Control Diagram.
- N.C. motorized damper. See Control Diagram.
- Damper position control with zone identification.
- 12" x 8" combustion air duct, one-half low (at burner height, approximately 12" above finished floor) and one-half high (approximately 3" from ceiling) up thru roof to 12" x 8" gooseneck with screen. See Detail AEM-18A in Specifications. Offset duct in ceiling space to maintain minimum 5'-0" distance between combustion air opening and HWH flue on roof.
- 3" flue thru roof from HWH-1. See Standard Detail in Specifications.

Metal stud framed ceiling for air transfer. Sleeve with 180MF F.D. thru fire wall above ceiling; seal around penetration to maintain fire separation.

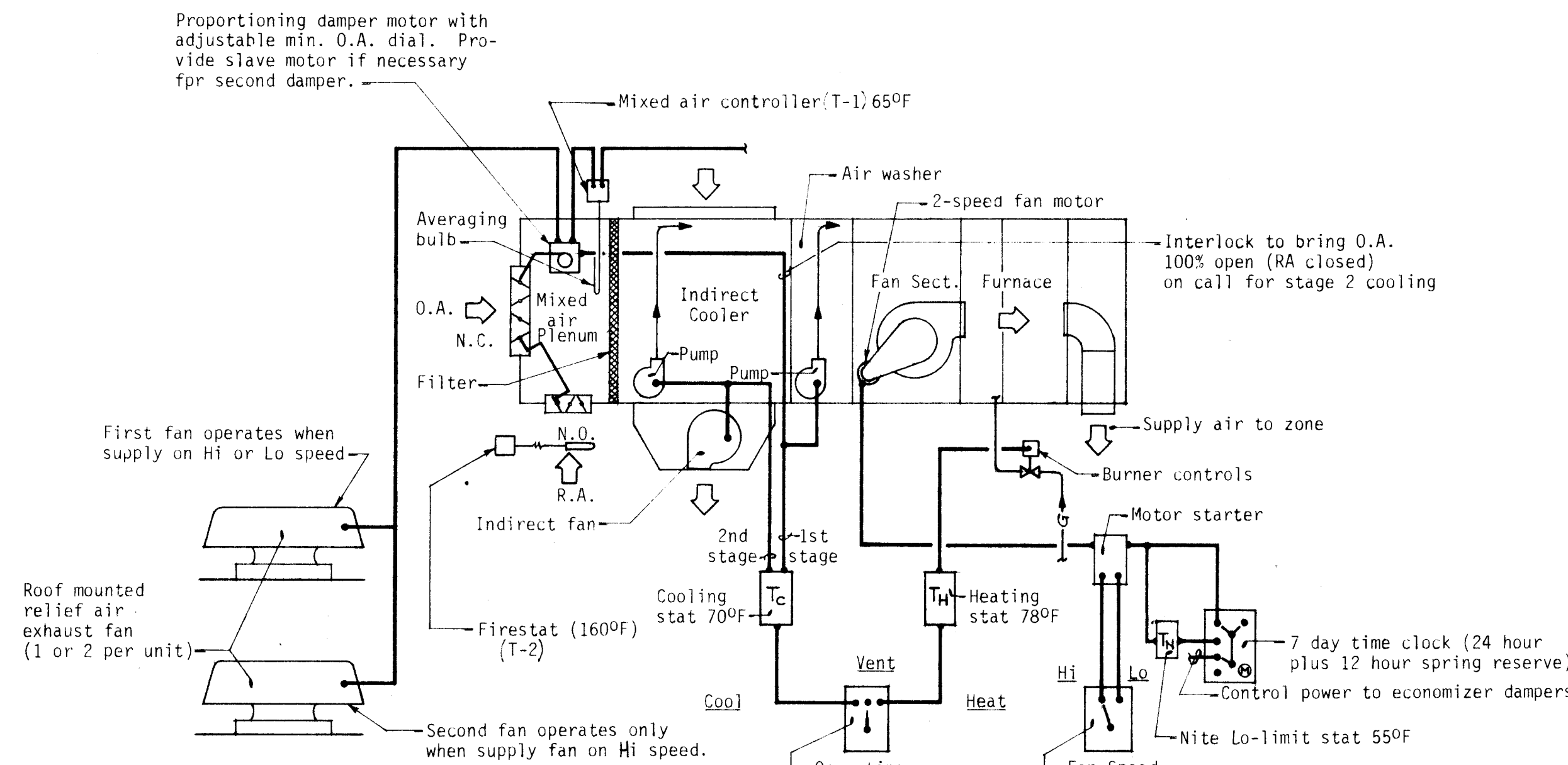


TYPICAL SOUND TRAP DETAIL
NOT TO SCALE
BASE BID AND ALTERNATE SYSTEM

STATE OF NEW MEXICO
PAT. MCMURRAY
ARCHITECT
REGISTERED ARCHITECT
ENGINEER
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CITY PROJECT NO. 1653
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NOVEMBER, 1983
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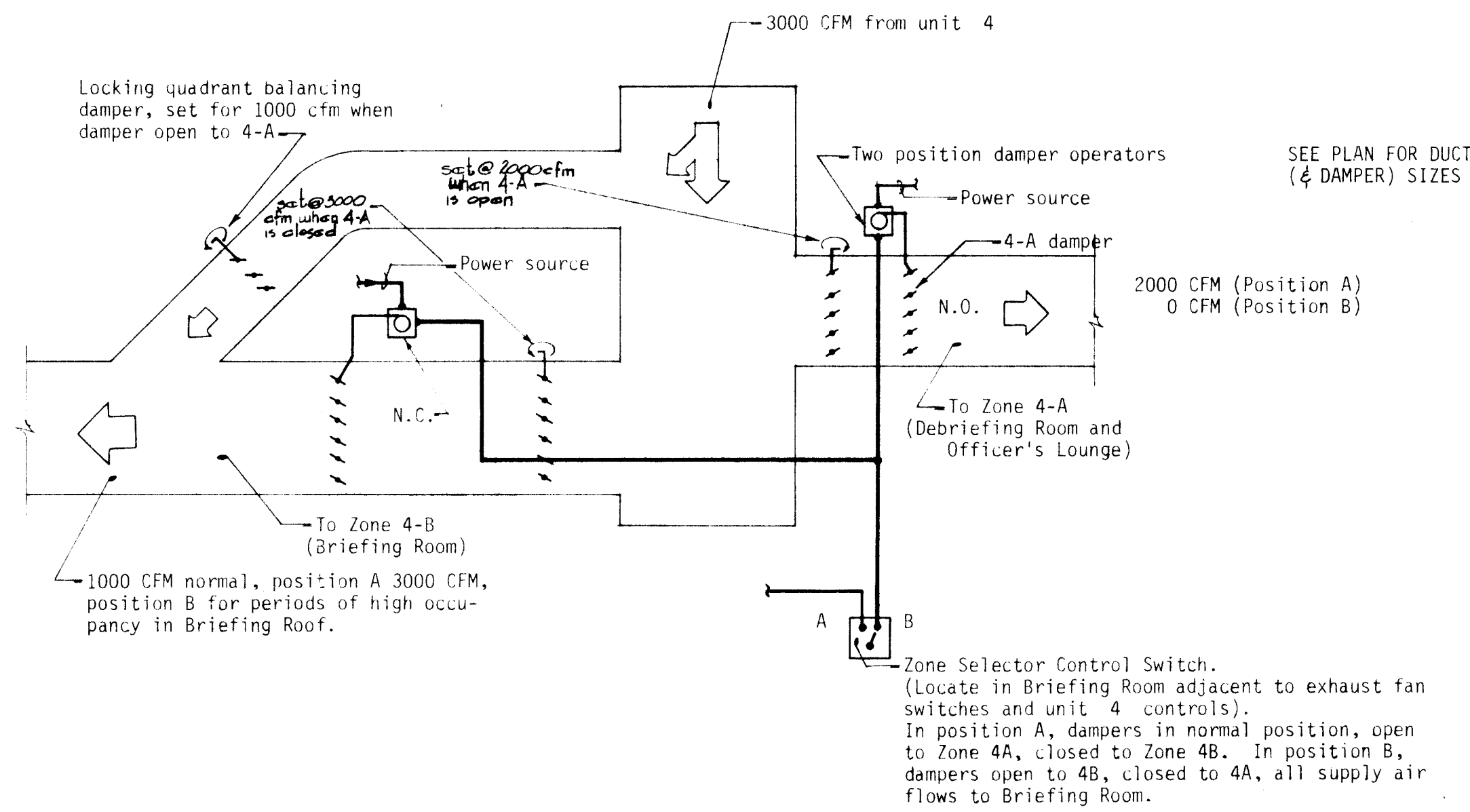
AIR HANDLING UNIT 4 CONTROLS

SEQUENCE OF OPERATION:

- The time clock supplies control power for constant fan operation during occupied period. The occupants can manually select HI or Lo speed fan operation.
- The occupants select mode (HEAT-VENT-COOL).
- When switched to "HEAT", the fan runs on Lo speed only and the heating stat (TH) cycles the gas burner on the furnace section. During "un-occupied" periods when the time clock has the supply fan off, a rise thermostat (TR) will bring the unit on if the indoor temperature drops to 55°F. The burner shall be interlocked such that the gas cycle will fire only if the fan is running.
- When switched to "VENT", the supply fan operates but both the air washer and the furnace are off.
- When switched to cool, the two-stage cooling stat (TC) shall sequence on the air washer water pump (Stage 1) and the indirect cooler pump and fan (Stage 2). The O.A. damper goes to full open on a call for cooling.
- The economizer dampers shall cycle to bring in O.A. during cool weather, cooling the mixed air to 65°F (controlled by T-1). They will function only when the fan is running (HI or Lo speed). A minimum O.A. setting will be part of the damper motor. As the outdoor air damper is cycled gradually open, one relief fan will cycle on (if on Lo speed), if on HI speed, the two relief fans will cycle on in sequence.
- The firestat (T-2) shall shut-down the fan if the R.A. temperature reaches 160°F.
- Lo speed shall be used for heating. HI speed should be used for cooling. HI or Lo speed may be used for ventilation.

NOTES:

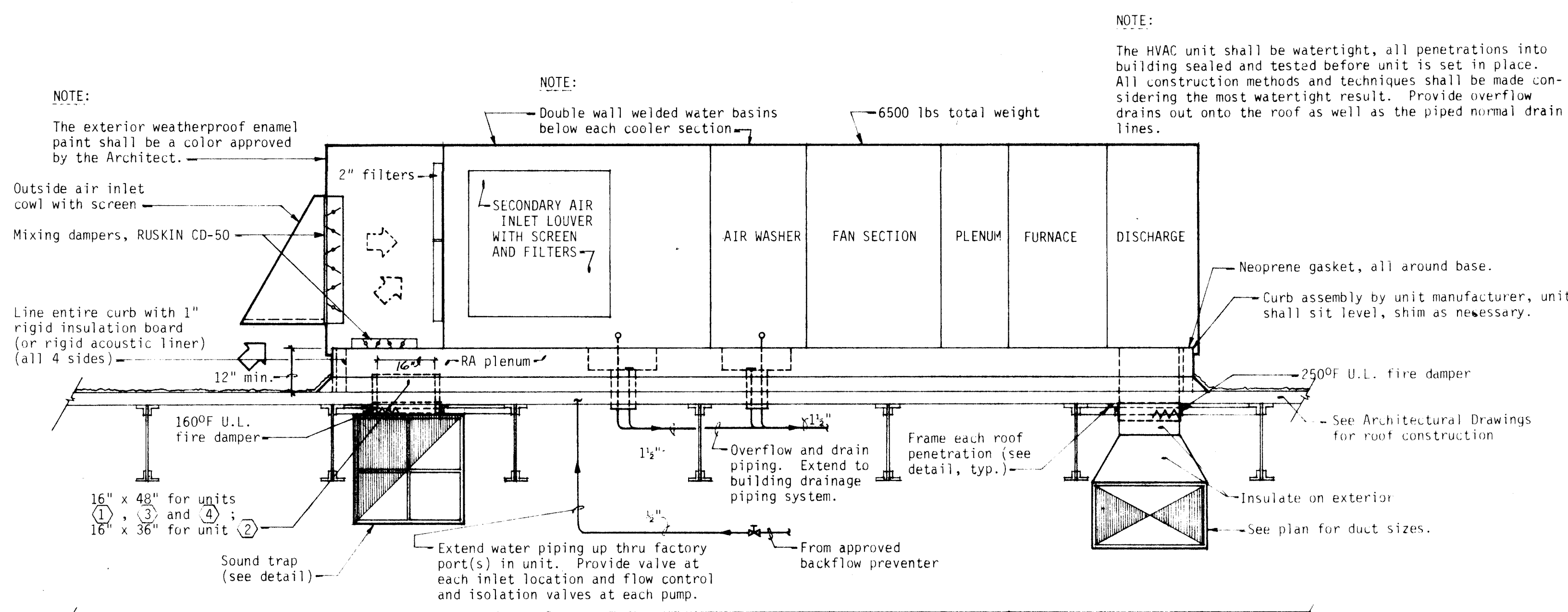
- This diagram is schematic only, intended to identify operation sequence. Actual wiring shall be accomplished in accordance with the HVAC manufacturer's diagrams.
- All safety devices such as float switches, relays, etc. shall be furnished and installed in accordance with the HVAC manufacturer's recommendations.
- Furnish relay to lock out HI speed and lock in LO speed when mode selector is switched to "HEAT" position.
- Interlock relief fans such that they sequence from end switches on damper operator, but lock out the 2nd relief fan on LO speed. When the supply fan is on HI speed, both relief fans will operate in sequence as O.A. damper opens.
- Interlock the furnace gas burner to cycle on only when the supply fan is running.
- Furnish low limit float switches to be wired in series with each water pump.
- Interlock the economizer damper cycle to function only when supply fan is running and to shut-off economizer during un-occupied periods (2nd set of contacts in time clock).
- Unit (2) has only one relief fan, symbol (7), it shall run only when 2 is on HI speed.
- Three (3) of the relief-exhaust fans shall be switches from "ON-AUTO" switches to allow occupants to use them for room exhaust as well as relief discharge. These are:
 - Fan (8) operating with unit (3). These "ON-AUTO" switches shall be wall mounted in the rooms the fans exhaust from.
 - Fan (10) operating with unit (4).
 - Fan (11) operating with unit (4).
- Each control device shall have Micarta Label (epoxy glued or bolted to device).
- Carefully group all controls in a typical orderly arrangement for each unit. Submit scale layout of each control wall grouping for Architect's approval and then see that electrical rough-in work follows the proper pattern.



ZONE 4A & 4B MOTORIZED DAMPER CONTROLS

This applies to BASE AND ALTERNATE SYSTEM BOTH

SCHEMATIC CONTROLS DIAGRAMS (BASE BID)



The Manufacturer's Field Engineer shall coordinate all control work with the Electrical Subcontractor.

TYPICAL AIR HANDLING UNIT DETAIL (BASE BID)

NOT TO SCALE

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REGISTERED ARCHITECT

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ENGINEER

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ALBUQUERQUE, NEW MEXICO

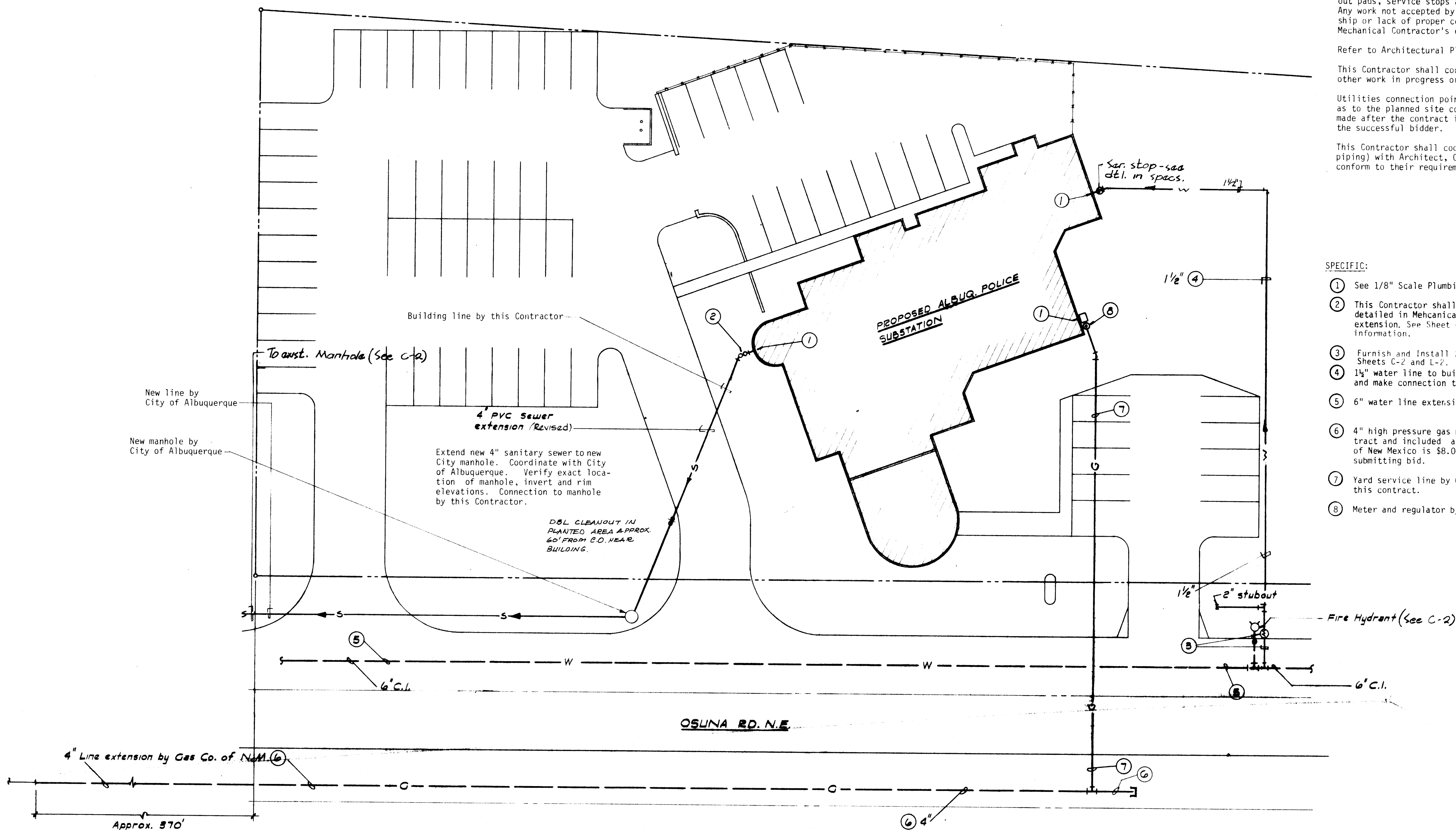
PROJECT NO. 8208
CITY PROJECT NO. 1653
DATE NOVEMBER, 1983
REVISION
1 AS-BUILT V.G.L.
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**ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION**

ALBUQUERQUE, NEW MEXICO

	
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CITY PROJECT NO. 1853	
DATE NOVEMBER, 1983 11/15/83	
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UTILITIES SITE PLAN

SCALE: 1" = 20'

UTILITIES NOTES

GENERAL:

This Contractor shall be responsible for the complete installation of all work related to Mechanical utilities connections including: trenching, backfill, supports, clean-out pads, service stops and boxes, service lines, testing, cleaning and sterilizing. Any work not accepted by the Architect or Mechanical Engineer due to improper workmanship or lack of proper coordination shall be removed and correctly installed at the Mechanical Contractor's expense, as directed.

Refer to Architectural Plans for finish and existing grades.

This Contractor shall coordinate cut-off of existing utilities for new connection with other work in progress or work previously completed.

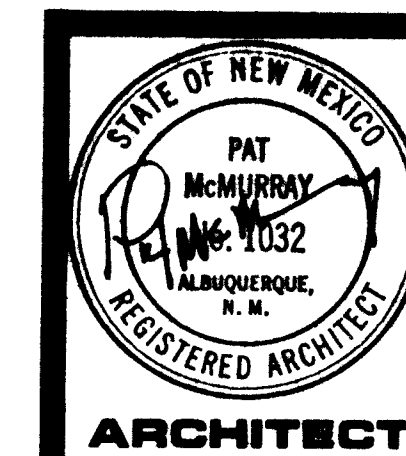
Utilities connection points are approximate only. Each bidder shall satisfy himself as to the planned site conditions before submitting his bid. No allowance shall be made after the contract is awarded for lack of pre-bid consideration of the site by the successful bidder.

This Contractor shall coordinate all utility work (domestic water, sewer and gas piping) with Architect, Owner and Local Utilities Engineering Officials and shall conform to their requirements.

SPECIFIC:

- 1 See 1/8" Scale Plumbing Plan for continuation.
- 2 This Contractor shall extend sewer line from building, install two-way cleanout as detailed in Mechanical Specifications and make connections to 4" PVC sewer line extension. See Sheet C-2 for extension location and other installation information.
- 3 Furnish and install 2" water service and water meter, coordinate location with Sheets C-2 and L-2.
- 4 1 1/2" water line to building. This Contractor shall coordinate location and make connection to this water service as shown on drawings C-1 and C-2.
- 5 6" water line extension in Osuna Rd. (Existing) See Sheet C-2.
- 6 4" high pressure gas main extension - costs shall be included as part of this contract and included as part of this Contractor's bid. Estimated cost by Gas Co. of New Mexico is \$8.00 per ft. x 700 ft. = \$5,600.00. Verify with Gas Co. before submitting bid.
- 7 Yard service line by Gas Co. of New Mexico paid for by this Contractor as part of this contract.
- 8 Meter and regulator by Gas Co. - contractor to pay all deposits, etc.

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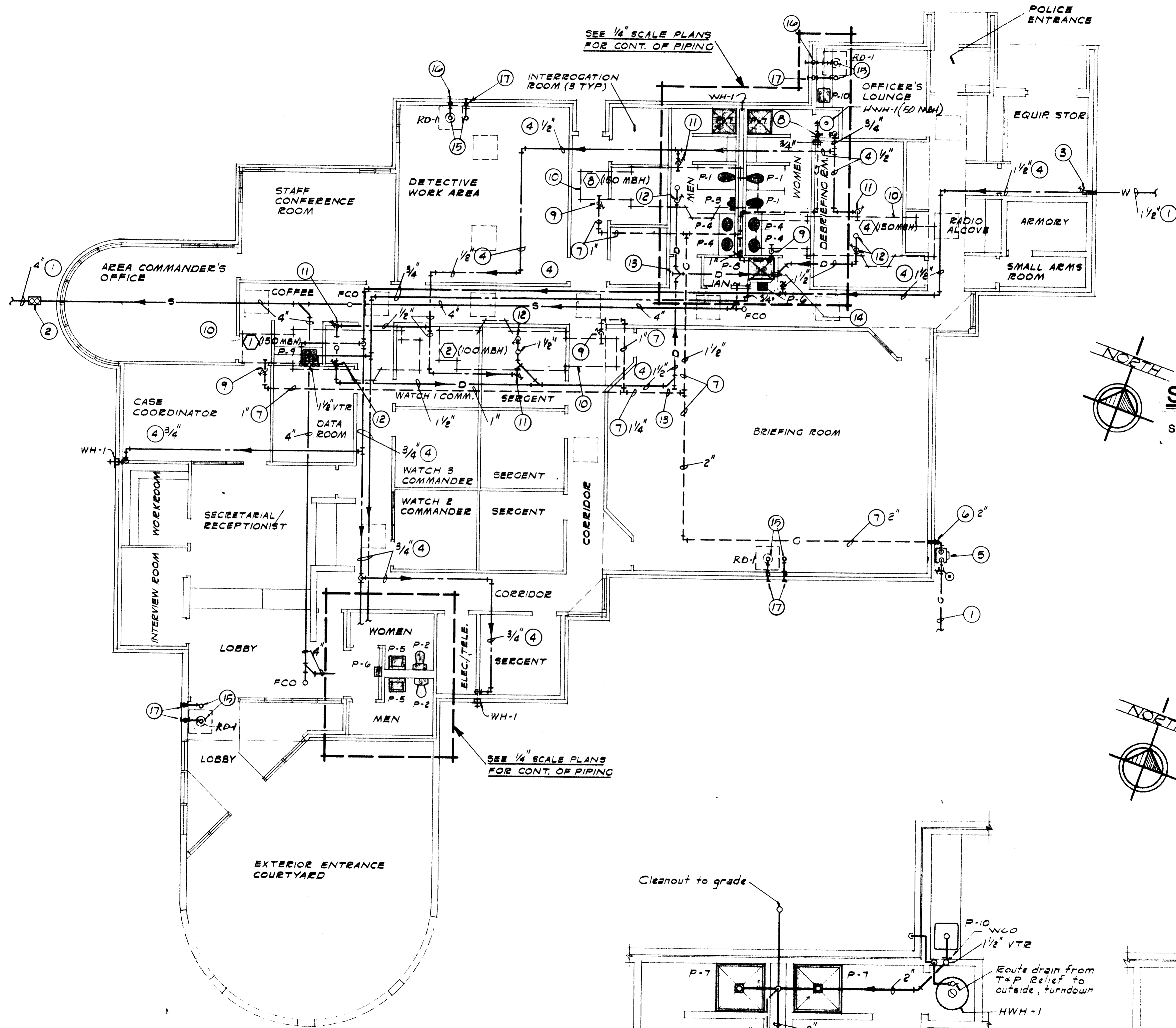
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NORTHEAST HEIGHTS SUBSTATION
ALBUQUERQUE, NEW MEXICO



PROJECT NO. 8208
CITY PROJECT NO. 1653
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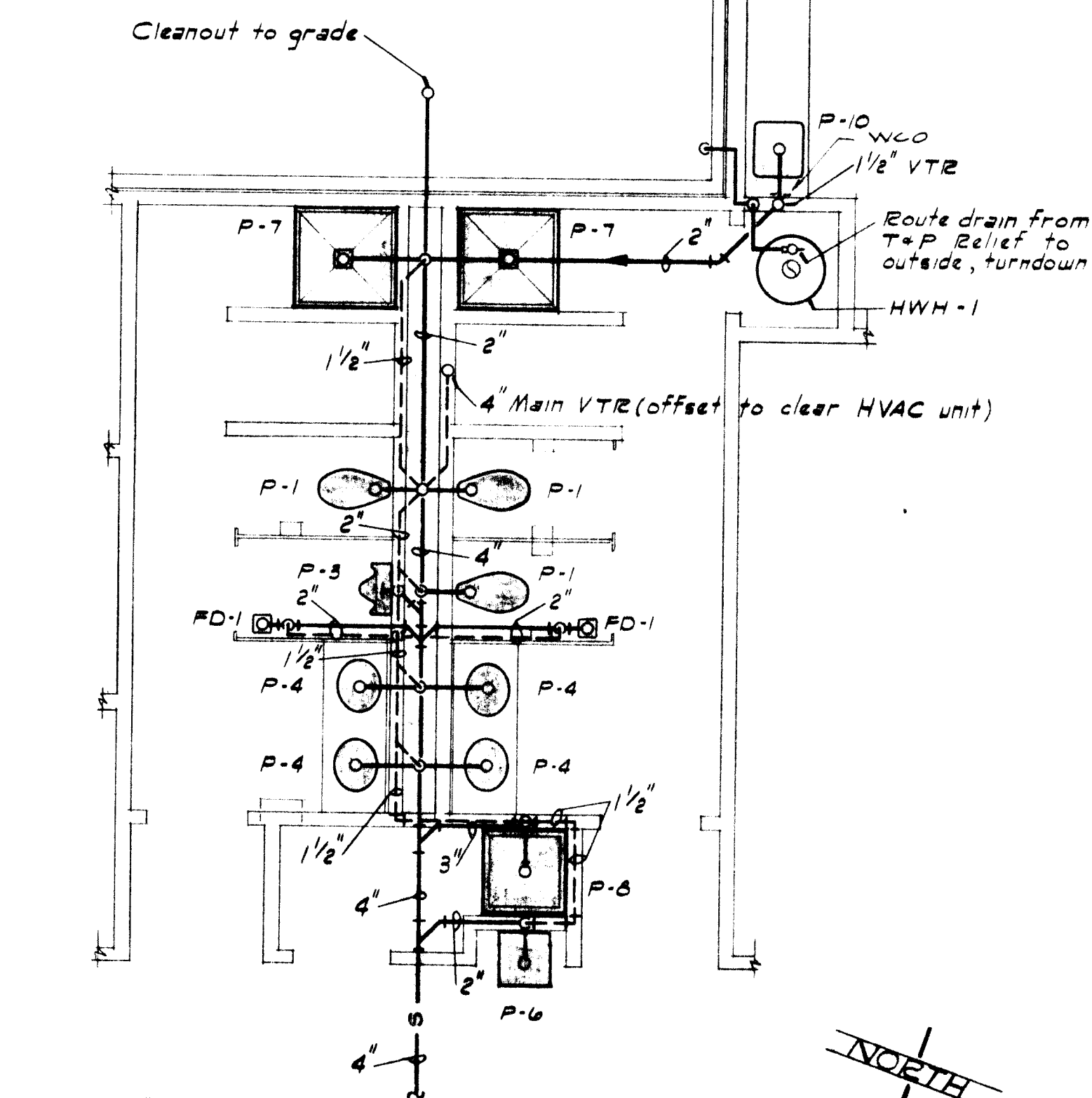
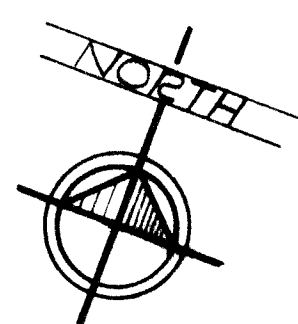
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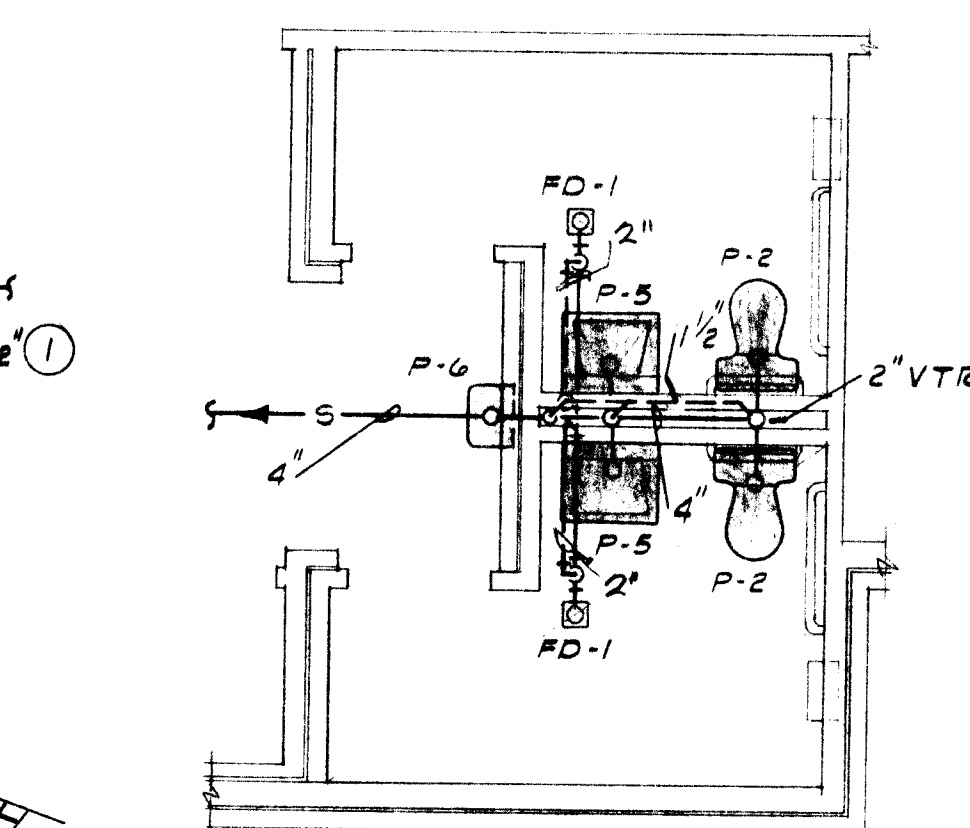
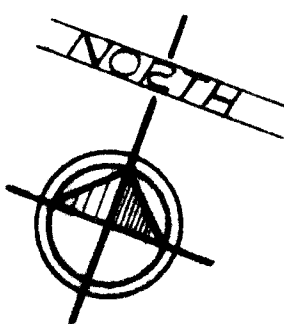
PLUMBING PLAN

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



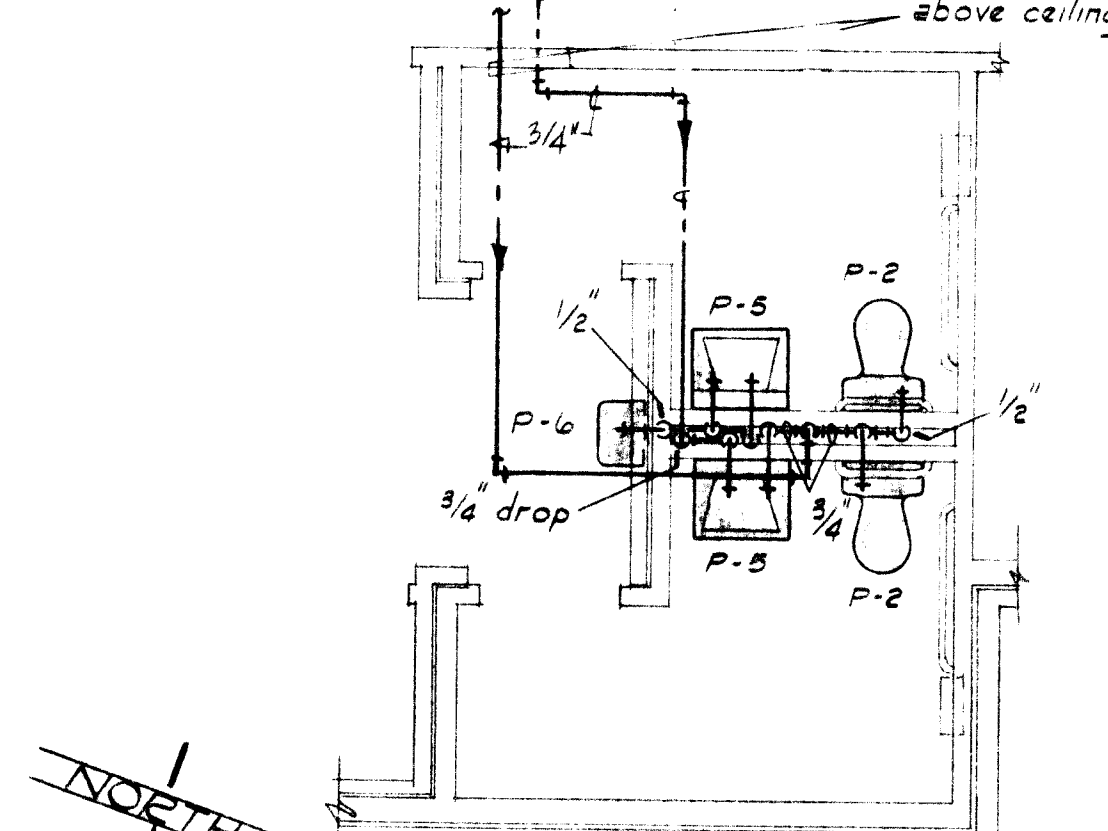
SOIL WASTE & VENT PLAN

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



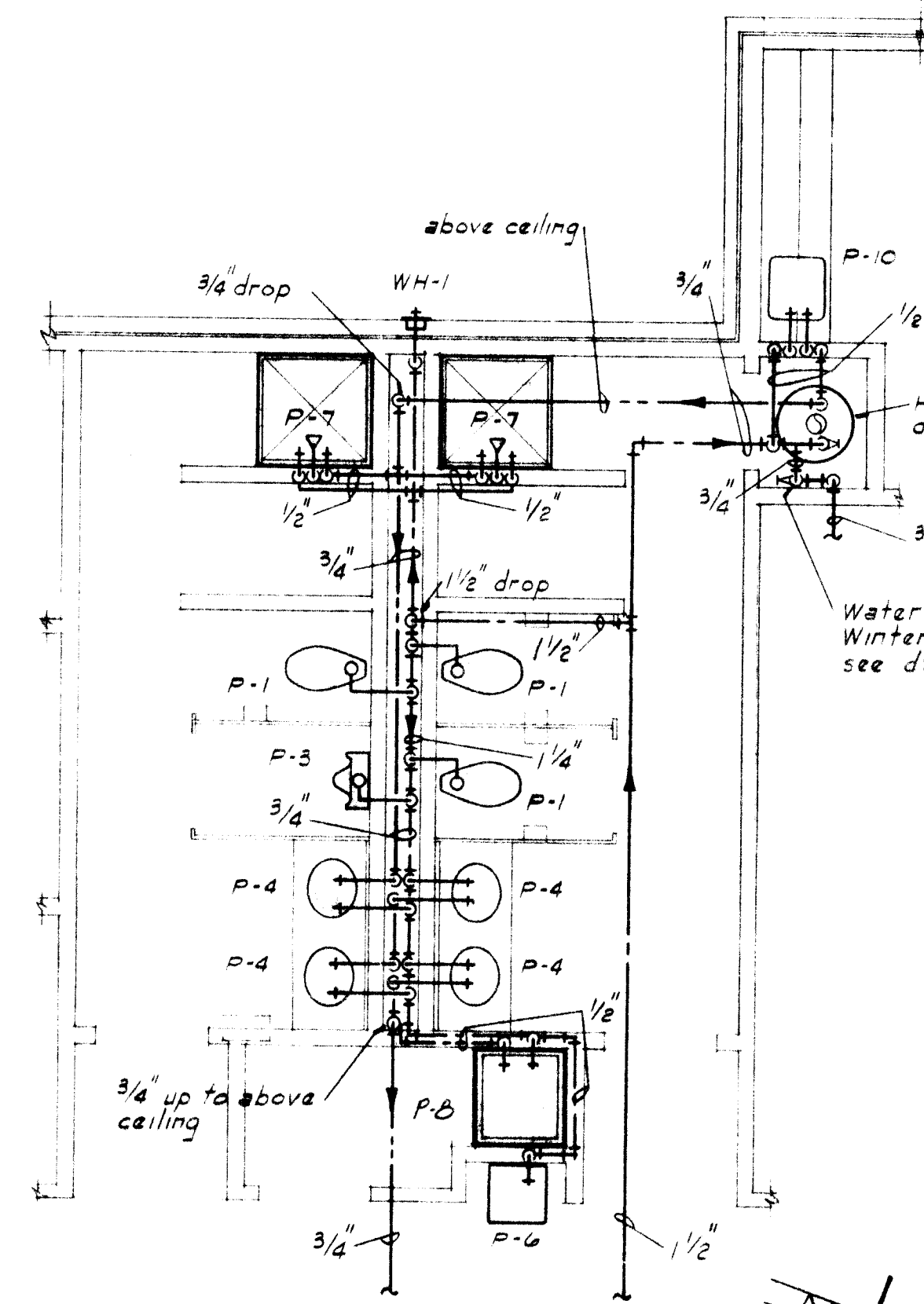
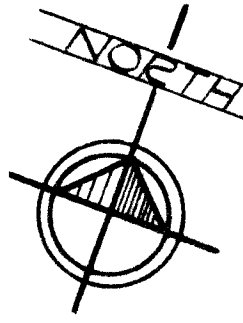
SOIL WASTE & VENT PLAN

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



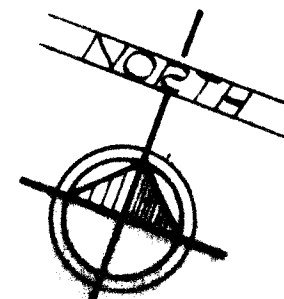
WATER PIPING PLAN

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



WATER PIPING PLAN

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



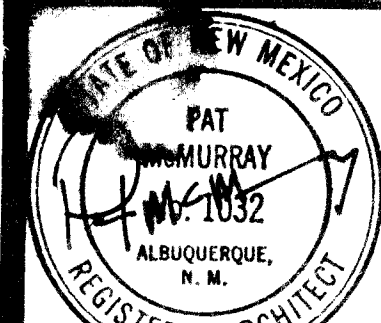
PLUMBING NOTES:

- See Utilities Site Plan for continuation.
- Two-way cleanout to grade - see detail in Specifications.
- Domestic water entrance and pressure reducing valve. See detail in Specifications.
- Route piping above ceiling - support with hangers.
- Gas meter and regulator by Gas Co. of New Mexico for 600 CFH total connected load. Regulator to reduce incoming high pressure to 4-6 oz. for use at the building.
- Up on wall, clamp to be secure - extend piping thru parapet and route on roof as shown.
- Support gas piping on roof with blocks as detailed in Specifications.
- Drop thru roof with gas piping in sleeve as detailed in Mechanical Specifications and connect to water heater.
- Connect to each gas fired unit with gas cock, union and flexible connector.
- Outline of heating-cooling unit on roof.
- Extend cw line up thru roof and connect to unit per detail and Manufacturer's directions.
- Connect 1 1/2" drain line and overflow to unit as directed by Manufacturer's installation drawings.
- Provide plug cleanout to be accessible.
- Drop 1 1/2" drain piping in wall, turn out and down with ell 2" above rim of service receptor P-8.
- Install 3" roof drain and overflow as detailed in Mechanical Specifications.
- Drop in wall and extend below grade to concrete splash block - see Architectural Drawings for detail.
- Drop in wall and install downspout nozzle DN-1. Coordinate height with construction and Architect.

GENERAL PLUMBING NOTES (APPLICABLE TO ALL PLUMBING SHEETS):

- All piping shall be concealed where possible. All exposed piping, where concealment is not possible, shall be painted.
- All piping above ceiling (hot water, cold water, roof drains & roof drain leaders) shall be insulated. See Specifications.
- All branches shall be valved and all valves shall have unions adjacent. Access panels and doors shall be furnished to General Contractor for installation and access to valves where required. Locate additional valves as shown on drawings.
- All piping shall pitch to drain and Contractor shall provide valving for drainage. Contractor shall deliver a marked-up set of plans to the Owner (prior to final payment) showing all branch valves and all drainage points.
- Care shall be taken to avoid mechanical ductwork, electrical equipment and air handling equipment above ceiling. This Contractor shall be responsible for coordinating routing of piping with ceiling contractor and sheet metal contractor. Relocation of piping required by poor coordination by this contractor shall be at his own expense.
- All water piping in Mechanical Equipment Rooms shall be insulated.
- No water piping shall be located in outside walls, unless shown to be and then piping to be insulated and located as close as possible to inside of wall cavity with additional insulation between piping and exterior of wall.
- Written prior approval required for all proposed substitutions of equipment and materials, 10 days prior to bid date of project.
- See Architectural Drawings for Owner furnished, Contractor installed equipment that requires piping connections, etc.
- All trenching and backfill for piping shall be the responsibility of this Contractor.

2	6	1	2	5	3	2	8	5
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ARCHITECT



ENGINEER

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PROJECT NO. 8208

CITY PROJECT NO. 1653

DATE

NOVEMBER, 1983

REVISION

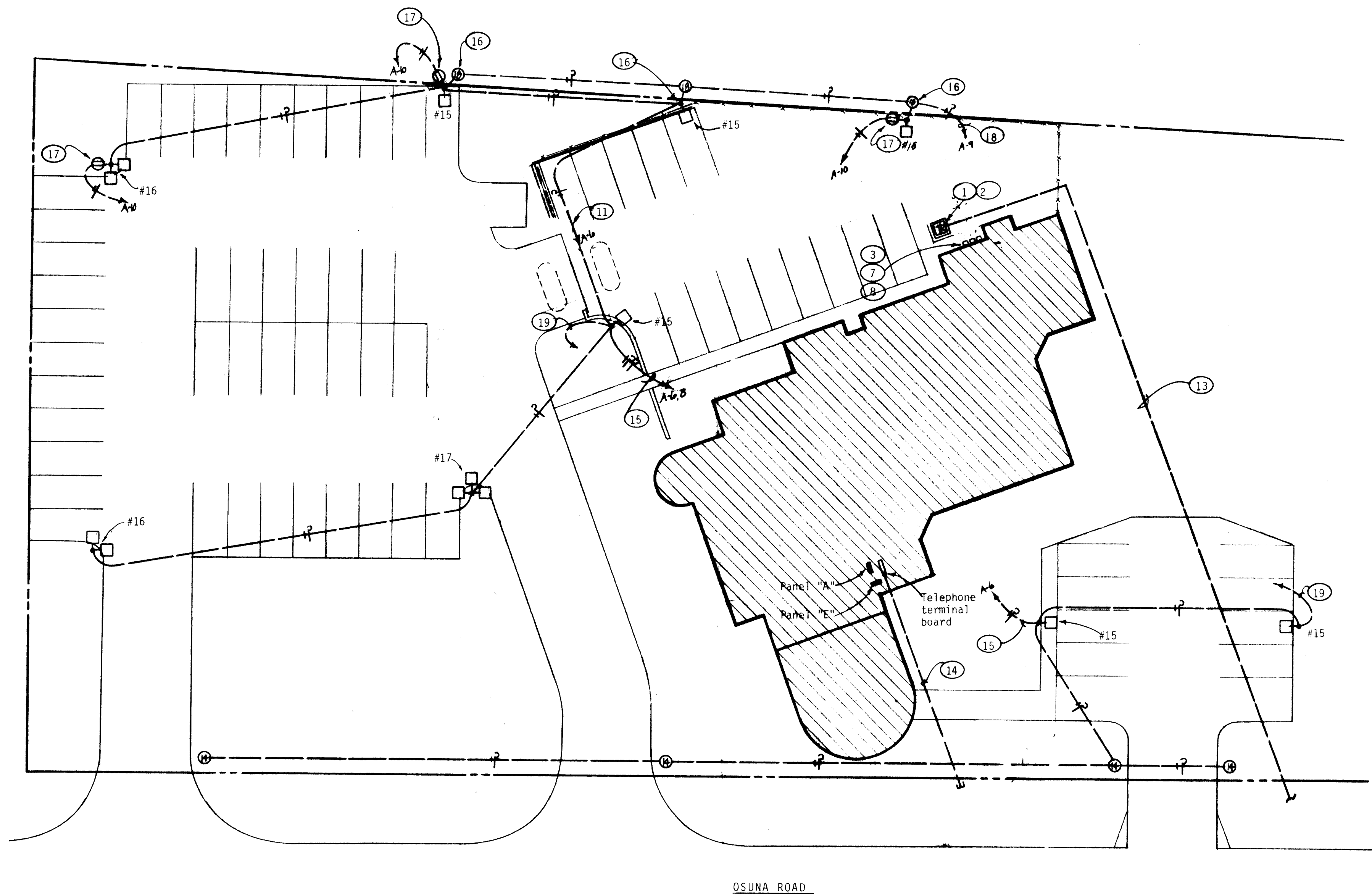
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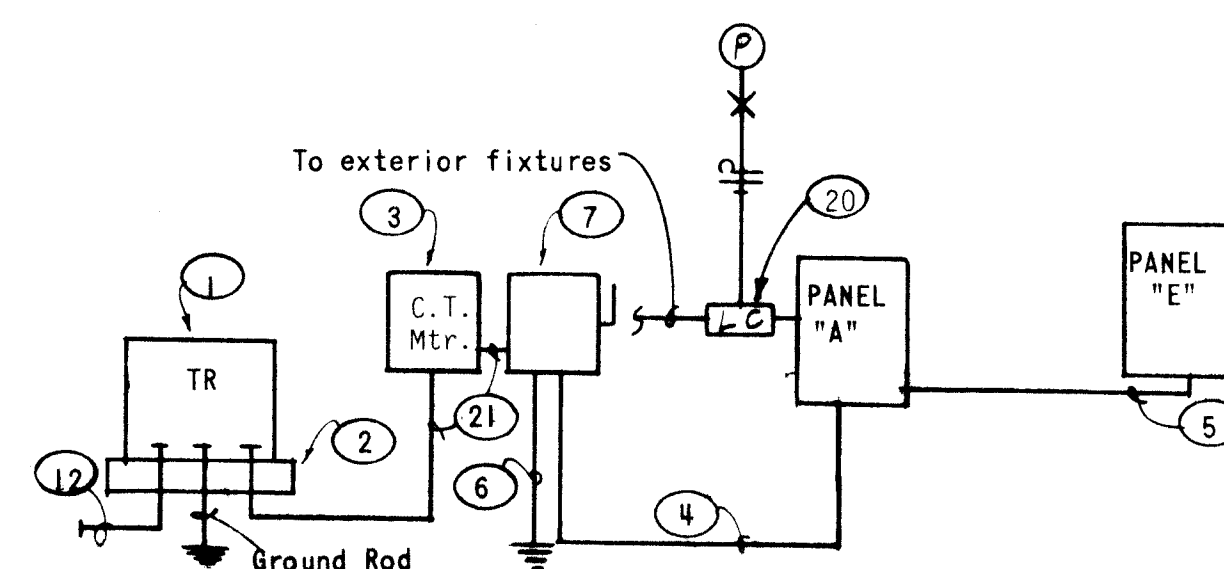
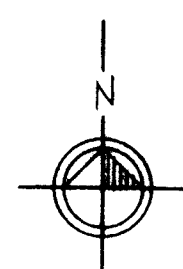
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SHEET NO.



ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



POWER RISER DIAGRAM

SERVICE: 120/240v, 1Ø, 3w
Total Connected Load: 72 KVA
Estimated Demand: 49 KVA

NOTES:

- Pad mounted transformer by Public Service Co. of New Mexico.
- Transformer pad per PSCNM Standard Drawing #DS-7-16.1.
- C.T. and metering enclosure per PSCNM Standard Drawings #DS-19-15.0 and #DS-19-17.0.
- 3 - #350 MCM THW Cu. and 1 - #6 THW Cu. green ground in 2 1/2" conduit.
- 3 - #2 THW Cu. and 1 - #6 THW Cu. green ground in 1 1/4" conduit.
- #2 CU ground. Bond to C.W. entrance and grounding electrode per NEC requirements.
- 400A-2P+SN fusible safety switch. Fuse at 300A with "Bussman" 1ø-peak, current-limiting, class RK-1 fuses.
- All electrical associated with installation of electric gate to be included under Additive Alternate #1.
- 1/2" conduit with conductors as required.
- Install rain tight j-box at base of cord/access unit and make required conn. to cord/access unit per Manufacturer's Shop Drawings.
- Provide connections to motorized gate. Furnish and install fusible disconn. switch. Connect per Manufacturer's Shop Drawings (1/2hp, 120v-1Ø maximum).
- Provide 4" conduit stub-out for PSCNM primary cable entrance.
- Primary service by PSCNM.
- 2" PVC telephone conduit underground to property line. Verify exact requirements with Mountain Bell.
- Thru lighting contactor.
- Install fixture type 18 this pole. See Detail.
- Install weatherproof duplex receptacle in pole. See Detail.
- Extend to switch, labeled "Rear Floodlights", adjacent to switch at Police entrance air lock.
- 1" conduit stubbed into pole base for future CCTV system. Extend to cabine in Electrical Room.
- 20A-6P.

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STATE OF NEW MEXICO

PAT MCMURRAY

REGISTERED ARCHITECT

ARCHITECT

ENGINEER

ALBUQUERQUE POLICE DEPARTMENT

NORTHEAST HEIGHTS SUBSTATION

ALBUQUERQUE, NEW MEXICO

PROJECT NO.

8208

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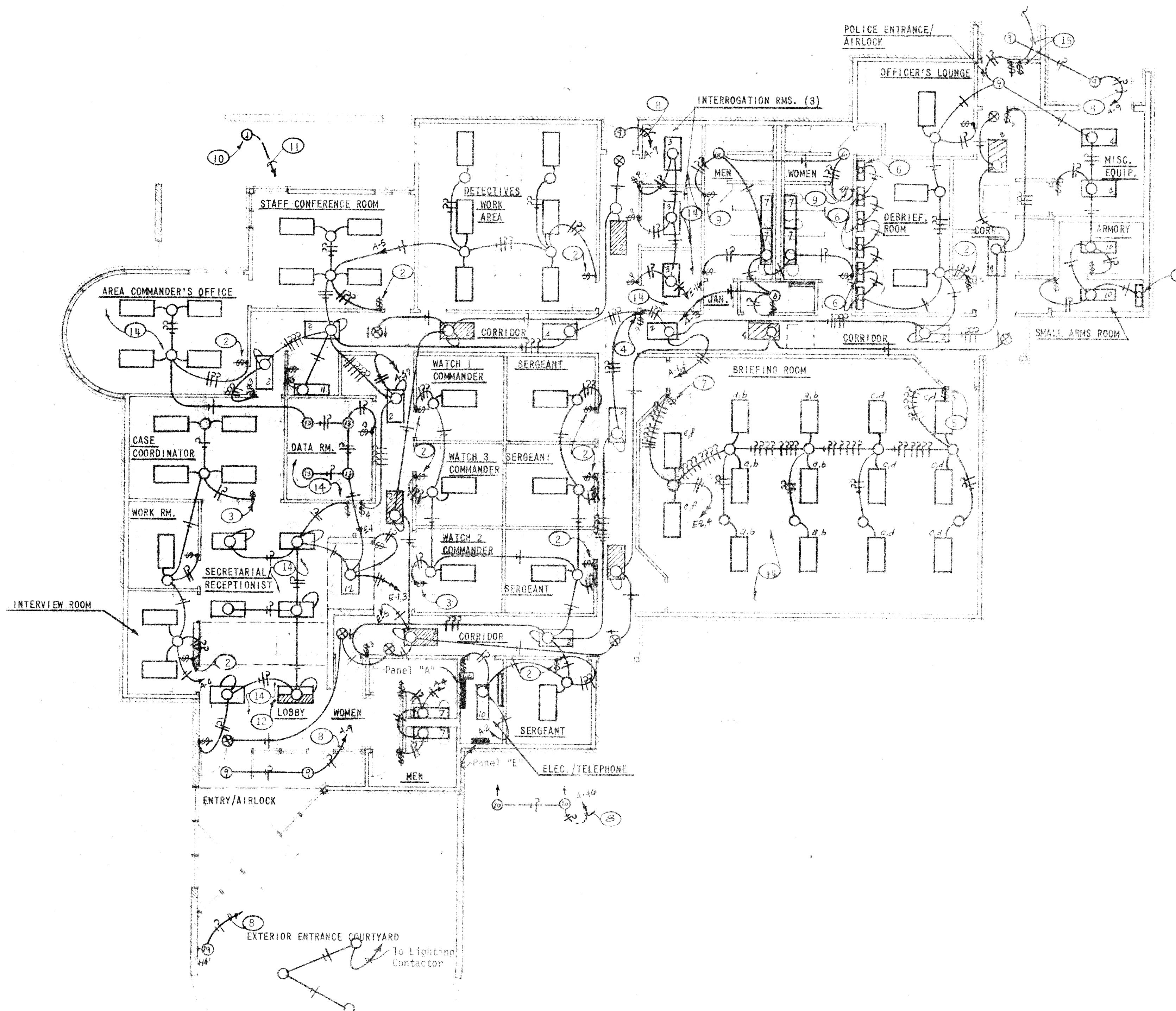
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LIGHTING PLAN

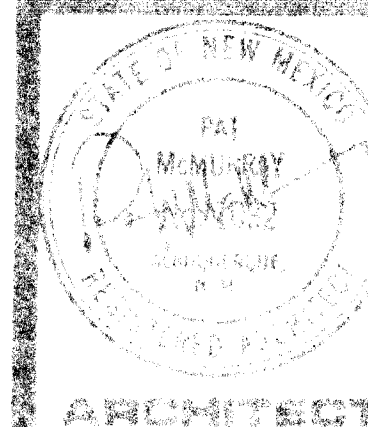
SCALE: 1/8" = 1'-0"

NOTES:

- 1 All fixtures this plan to be type 1 unless noted otherwise.
- 2 2 switch, switch inside and outside lamps separately.
- 3 Mullion switch and plate.
- 4 3 - 3 way switches.
- 5 2 - 3-way switches, switch inside and outside lamps separately.
- 6 Install fixture type 5 in built-in cabinetry as directed by Architect. Coordinate with cabinetry installer.
- 7 6 ganged switches, 2 - 3-way switches c, d and a single pole switches a, b, e and f. Connect all inside lamps on one circuit and all outside lamps on one circuit.
- 8 Thru lighting contactor.
- 9 Switch supplied with fixture. Connect 250W infrared heat lamp on 15 minute timer and 100W light on "On-Off" switch.
- 10 Weatherproof j-box flush in grade for future installation of lighting fixtures. Verify exact location with Architect.
- 11 1/2" conduit with pull wire to Panel "A".
- 12 Connect 2 lamps this fixture as night light (unswitched).
- 13 See architect's Reflected Ceiling Plan for exact location of fixtures.
- 14 Lights in this area on emergency circuit.
- 15 Location of switch for control of "Flood Flood" lights, Note 18 on Sheet E-1.

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ARCHITECT

ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION
ALBUQUERQUE, NEW MEXICO



ENGINEER

PROJECT NO.
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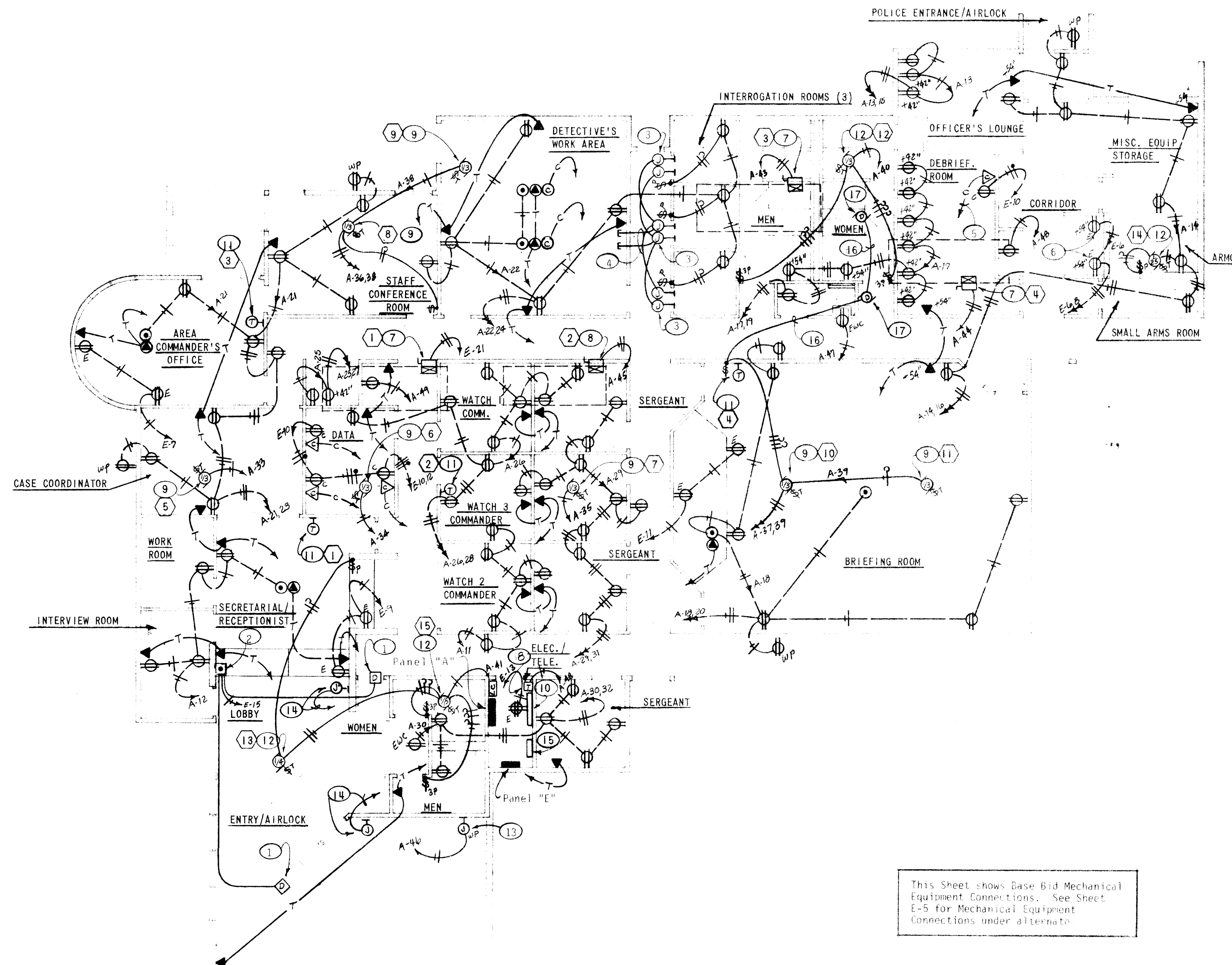
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DATE
NOVEMBER, 1984

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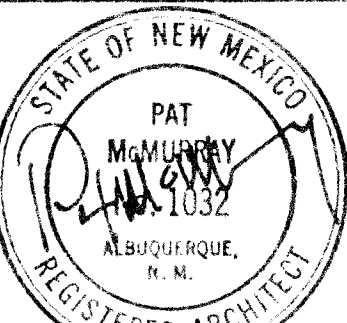
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POWER & SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

- NOTES:
1. Make connections to magnetic door holder. Verify exact requirement.
 2. Door control pushbutton station. Verify location and connection requirements.
 3. Install 2 J-boxes above cig. for future CCTV system.
 4. Stub conduits into ceiling space at detective area.
 5. To Telephone Board, typical.
 6. Install duplex outlet (red face emergency type) for radio equipment. Verify exact location with Owner's representative.
 7. Heating and cooling unit on roof, 3 HP supply fan, 240v-10, 1/2 HP return fan, 120v-10, and two 1/6 HP water pumps 120v-10. Provide 3-30A-1P+GN and 1-60A-2P+GN fusible switches, fused to suit. Connect return fan motor on one 120v leg and pump motors on the other 120v leg. Starters are furnished with unit.
 8. Same as (7) except supply fan is 2 HP.
 9. Exhaust fan on roof, 120v-10. Fan is interlocked with heating and cooling unit. See Mechanical Plans.
 10. 4' x 8' x 3/4" fire retardant plywood telephone terminal board. Provide 1 #6 bare Cu. ground wire in 3/4" conduit to nearest c.w. pipe.
 11. Thermostat/control station for hgt. and cooling unit indicated & associated exh. fan(s). Electrical Contractor to make all connections and provide all wiring and conduit for all Mechanical controls. Electrical Contractor to coordinate carefully with Mechanical Contractor and equipment supplier to provide all electrical work required. See Mechanical plans and specifications for schematic control diagrams and additional requirements.
 12. Exhaust fan on roof, 120v-10.
 13. Install up j-box for sign, verify exact location with Architect.
 14. Install flush j-box for future CCTV system. Locate as directed by Owner's representative. Extend 1" conduit to cabinet in Electrical Room.
 15. 24" x 24" x 6" deep telephone type cabinet for future CCTV system.
 16. 1/2" conduit with conductors as required.
 17. Connect motorized dampers for heating and cooling unit (4). See Mechanical Plans for schematic control diagram.
 18. Electrical Contractor to provide and install a total of 4 - 7 day time clocks (24 hour plus 12 hour spring reserve) for heating and cooling units (1) thru (4). See Mechanical Plans for Schematic Control Drawings.

This Sheet shows Base Bid Mechanical Equipment Connections. See Sheet E-5 for Mechanical Equipment Connections under alternate.



ARCHITECT

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**PROJECT NO.
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SHEET NO.

SHORT CIRCUIT STUDY		
BASED ON 50 KVA TRANSFORMER AT 1.85 IMPEDANCE, 120/240V, 1 Ø, 3W		
LOCATION	MAXIMUM S.C. AMPS	MINIMUM AIC OR BRACING
TRANSFORMER	16,000	—
SERVICE DISCONNECT (LOAD SIDE)	5,500 *	10,000
PANELS A & E	5,000	10,000
* Thru "BUSSMAN" 10-peak, current limiting fuses		

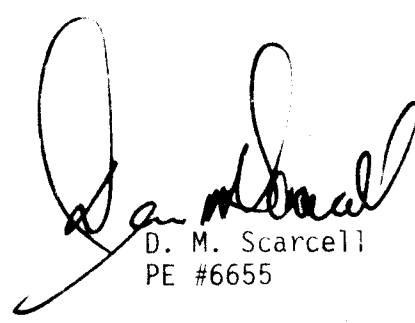
NMEC ARTICLE 290 ENERGY CONSERVATION TABLE				
REFLECTANCES: CEILING 80%, WALLS 50%, FLOOR 20%				
SPACE	ZONAL CAVITY METHOD			FOOTCANDLES
	R.C.R.	COEF. OF UTIL.		
Lobby 101	4.33	.49		34
Reception 104	3.61	.52		63
Interview 105	6.00	.40		64
Work Room 106	6.47	.39		38
Office 107	4.00	.50		71
Data Room 108	5.27	.51		48
Office 110	3.65	.52		64
Conference 111	3.64	.52		63
Detective 112	2.68	.57		57
Corridor (Typ.)	7.07	.38		21
Off. 114 thru 119, 122	5.75	.42		32
Briefing 124	1.74	.63		48
Lounge 132	5.22	.44		28
Debriefing 135	4.21	.49		38
Storage (Typ.)	6.00	.40		28
Toilets (Typ.)	6.00	.35		23

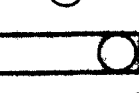
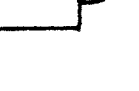
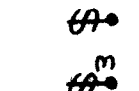
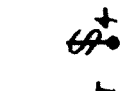
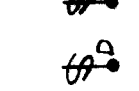
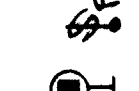
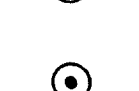
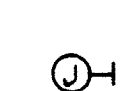
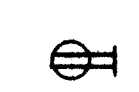
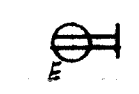
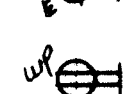
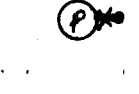
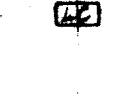
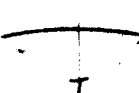
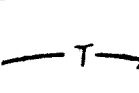
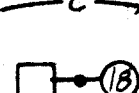
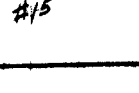
FIXTURE SCHEDULE			
NO.	DESCRIPTION	MOUNTING	LAMPS
1	"Metalux" #2RG-440A-RS-120v	Recessed ceiling.	4-F40/CW/WM
2	"Metalux" #2RG-240A-RS-120v	Recessed ceiling.	2-F40/CW/WM
3	"Fail Safe" #1554-440-80/97-ESB-120v	Recessed ceiling.	4-F40/CW/WM
4	"Globe" #WPV3754-4R-120v-ESB	Surface ceiling.	4-F40/CW/WM
5	ALCKO #116-SW-120v	As noted.	2-F8T5/CW
6	NUTONE #9420 with #VS-68 control switch.	Recessed ceiling.	1-100w/R40/FL and 1-250w/R40/ infrared
7	"I.C.E." #FR-R-240-A-120v-ESB	Recessed ceiling.	2-F40/CW/WM
8	Keyless porcelain receptacle.	Surface ceiling.	1-100w/IF/130v
9	"Capri" #MV051-T057D-FS-120v	Recessed ceiling.	1-100w/MV/Deluxe Warm White.
10	"Globe" #WPV3702-4R-120v-ESB	Surface ceiling.	2-F40/CW/WM
11	BENJAMIN #CZW-2214-4-120v	Under counter	1-F40/CW/WM
12	"Metalux" #2RF-240A-RS-120v-ESB	Recessed ceiling.	2-F40/CW/WM
13	"Capri" #AE014-T051	Recessed ceiling.	1-200w/IF/130v
14	"J.H. Spaulding" #FN11-100-BX-120v	Reinforced concrete base per manufacturer's recommendations	1-100w/MV/deluxe white
15	"J.H. Spaulding" #CVI-175-M-FG-120v	See pole detail.	1-175w/metal halide
16	"J.H. Spaulding" #CVI-175-M-FG-120	See pole detail.	2-175w/metal halide
17	"J.H. Spaulding" #CVI-175-FG-120	See pole detail.	3-175w/metal halide
18	"J.H. Spaulding" #SN-250-HPS-120v	See pole detail.	1-250w/HPS
19	"Fail Safe" #1801MV-2418-DS	Surface wall	1-100w/MV/delux white.
20	"Keene" #CTA-500	Flush concrete base	1-300w/T3 Quartz
⊗	"Emergi Lite" #SMX23-G*-120v (self powered)	Surface ceiling	As required
⊗	"Emergi Lite" #SMX22-G*-120v (self powered)	Surface wall above door	As required
⊗	"Emergi Lite" #SMX21-G*-120v (self powered)	Surface ceiling	As required
*⊗ indicates "Universal Arrows"			

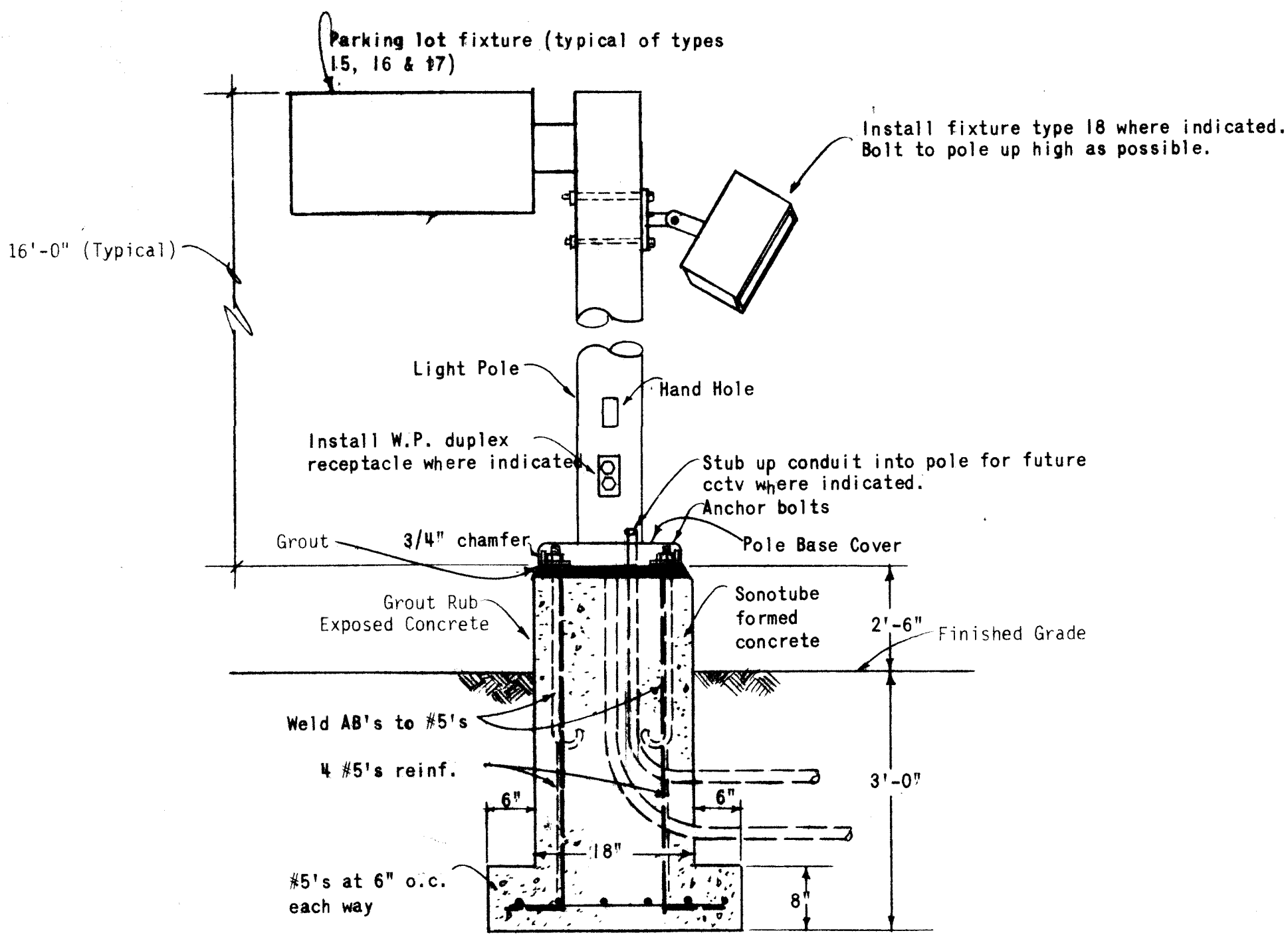
Panel "A" (Base Bid)			
120/240v, 1Ø, 3w, SN, 225 Amp M.L.O., "Westinghouse" Type BIOB, surface mounted. 2 section			
Circuit	Breaker	Wire	Load
1 thru 42, 46 thru 48	20A-1P	#12	Lights, Recepts., Mech.
43, 44	50A-2P	#6	Mechanical
45	40A-2P	#8	Mechanical
49 thru 51	20A-1P	--	Spares

Panel "E"			
120/208v, 1Ø, 3w, SN, 100A-2P Main Breaker, "Westinghouse" type BIOB, surface mounted with isolated ground bus.			
Circuit	Breaker	Wire	Load
1 thru 18	20A-1P	#12	Lights, Recepts., Mech.
19, 20	20A-1P		Spares
21	50A-2P	#6	Mechanical

Lighting Budget	
Total watts of lighting — square feet = watts per square foot	
14,650 — 7,010 = 2.09 watts per square foot	

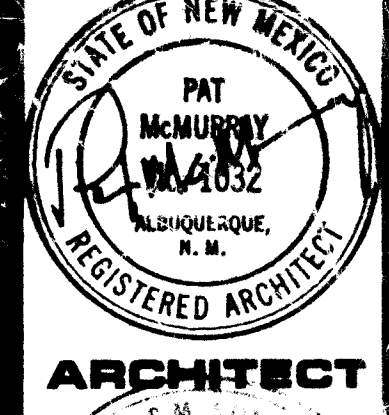
The design conforms to New Mexico Electrical Code, Article 290, Energy Conservation and lighting calculations per Table #1.	
 D. M. Scarcell PE #6655	

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	Ceiling outlet and fixture.
	Bracket outlet and fixture.
	Fluorescent outlet and fixture.
	Fluorescent outlet and fixture used as night light and emergency light. Furnish with "Dual-Lite" UFO-1 Emergency Power Pac.
	Lay-in fluorescent fixture with outlet on structure flexible conduit to fixture.
	Single pole wall switch, up 48".
	Three way wall switch, up 48".
	Four way wall switch, up 48".
	Thermal switch.
	Dimmer switch, "Lutron" #N-1000, up 48".
	Wall switch with pilot light "Hubbell" #1281 (#1283 3-way), up 48".
	Combination receptacle, "Hubbell" #5292, 1-15 amp, 250 volt, and 1-15 amp, 125 volt, up 18".
	Duplex flush floor outlet (or as noted) "Hubbell" #B-2536 with #S-3925 and duplex receptacle. Coordinate exact location with Architect.
	Junction box flush in wall, height as noted or required with connection to equipment.
	Duplex convenience outlet, up 18" or as noted.
	Flush floor 3-gang "Hubbell" #B-4333 with 2 - #S-2425 and 1 #S-3825 covers; #5262 receptacle and #S-3085 2-gang carpet flange. Coordinate exact location with Architect.
	Duplex convenience outlet on emergency circuit, red face, up 18" or as noted.
	Isolated ground duplex receptacle for computer terminal power, orange face, "Hubbell" #IG-5362, up 18" or as noted.
	Computer cable outlet, similar to telephone outlet.
	Double duplex convenience outlet, up above telephone board, red face.
	Weatherproof duplex convenience outlet, up 12" or as noted.
	Telephone outlet, up 18" or as noted.
	Photocell lighting controller: "Precision" #T-15 or #T-18 mounted on 1/2" rigid conduit stubbed up 12" above roof.
	Lighting control contactor (size as indicated) controlled by #1, with "ON-OFF-AUTOMATIC" switch on case (Nema I case).
	C. B. Panelboard.
	Motor.
	Motor controller.
	Safety Switch.
	Conduit run in walls or ceiling.
	Conduit run in walls or under floor.
	Home run.
	Telephone conduit, minimum 3/4" with pull wire.
	1" conduit with pull wire to telephone terminal cabinet.
	Tic marks represent neutral, hot and switch leg conductors respectively.
	1" computer system conduit, with pull wire, to telephone board.
	Two exterior fixtures.



FIXTURES TYPE 15, 16 & 17 POLE DETAIL

N.T.S.



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ALBUQUERQUE POLICE DEPARTMENT
NORTHEAST HEIGHTS SUBSTATION
ALBUQUERQUE, NEW MEXICO



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PROJECT NO. 8208
CITY PROJECT NO. 1853
DATE NOVEMBER, 1983
REVISION
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SHEET NO.

AS BUILT, 11-28-84, AEI