

SITE ANALYSIS:

- 1. AREA OF PARCEL A = 187 ACRES - 843,005 SQ. FT.
AREA OF PARCEL B = 187 ACRES - 825,950 SQ. FT.
TOTAL = 374 ACRES - 1,668,955 SQ. FT.
2. ZONING = (WP 91-200) NEW TOWN, P.P.S. 212

INDEX

- C-1. SITE & GRADING PLAN
C-2. SITE & GRADING PLAN
C-3. SITE & GRADING PLAN
C-4. DETAILS
C-5. DETAILS
C-6. SITE DETAILS

- L-1. LANDSCAPE PLAN & DETAILS
L-2. LANDSCAPE PLAN
L-3. LANDSCAPE PLAN & PLANT SCHEDULE
L-4. DETAILED LANDSCAPE PLANS

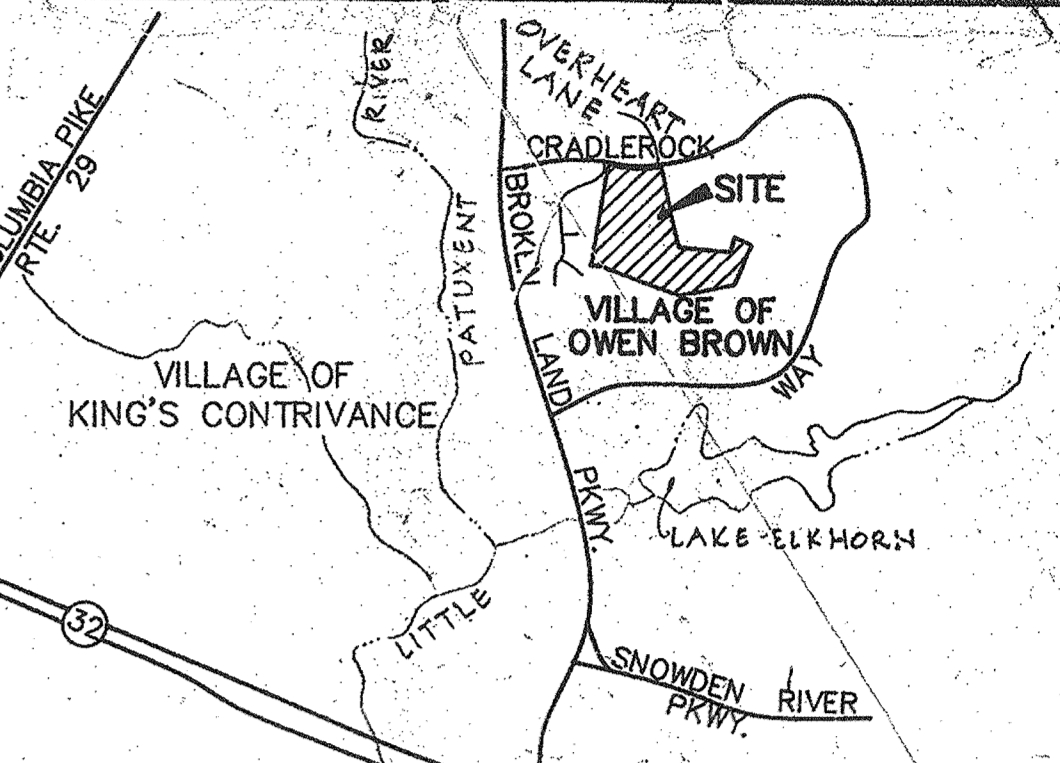
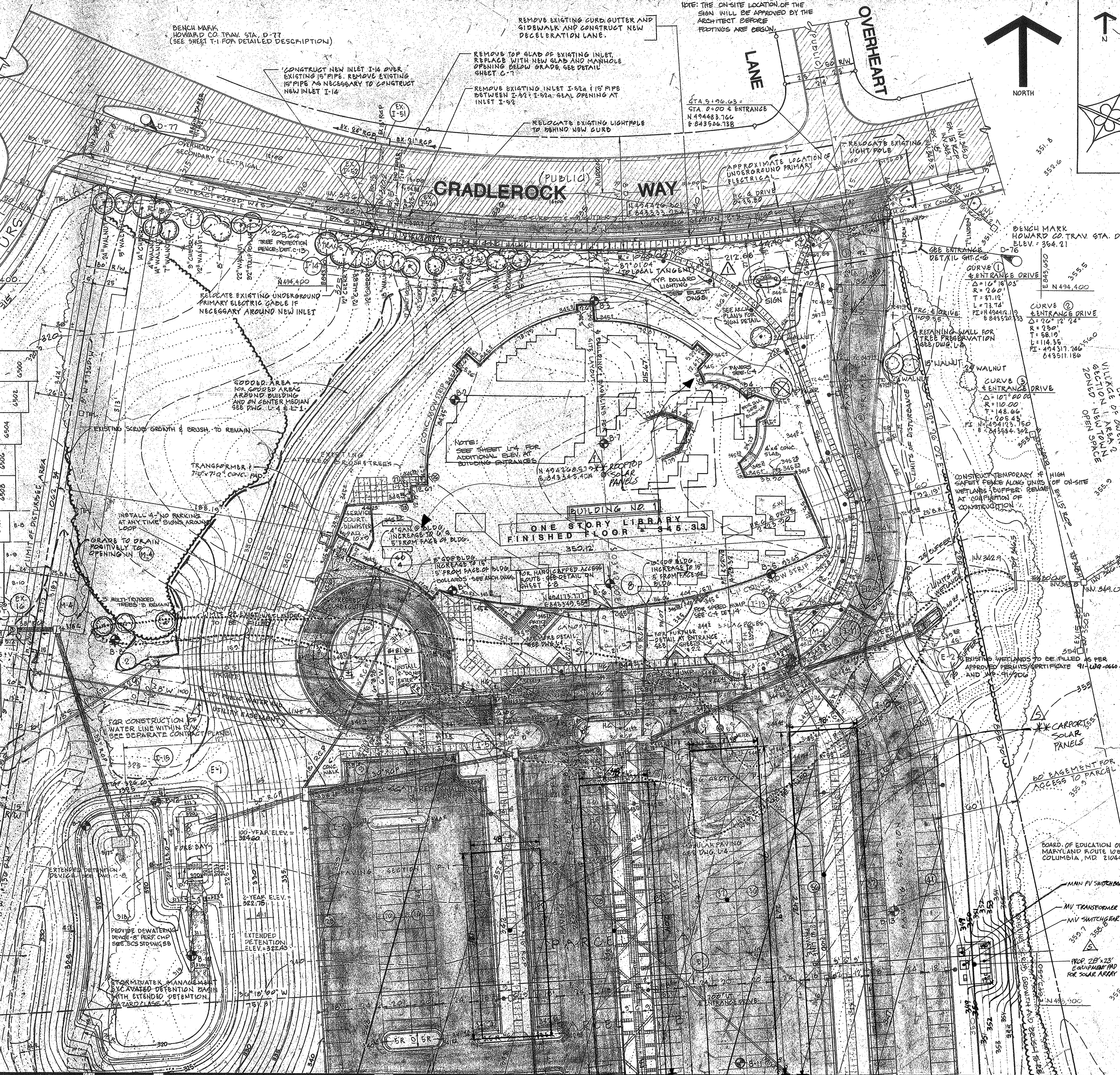
Table with columns: Name, Address, Phone, Notes. Includes names like TRACY CARLSON, THOMAS J. LUKACS, and others.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS
APPROVED: HOWARD COUNTY BUREAU OF UTILITIES

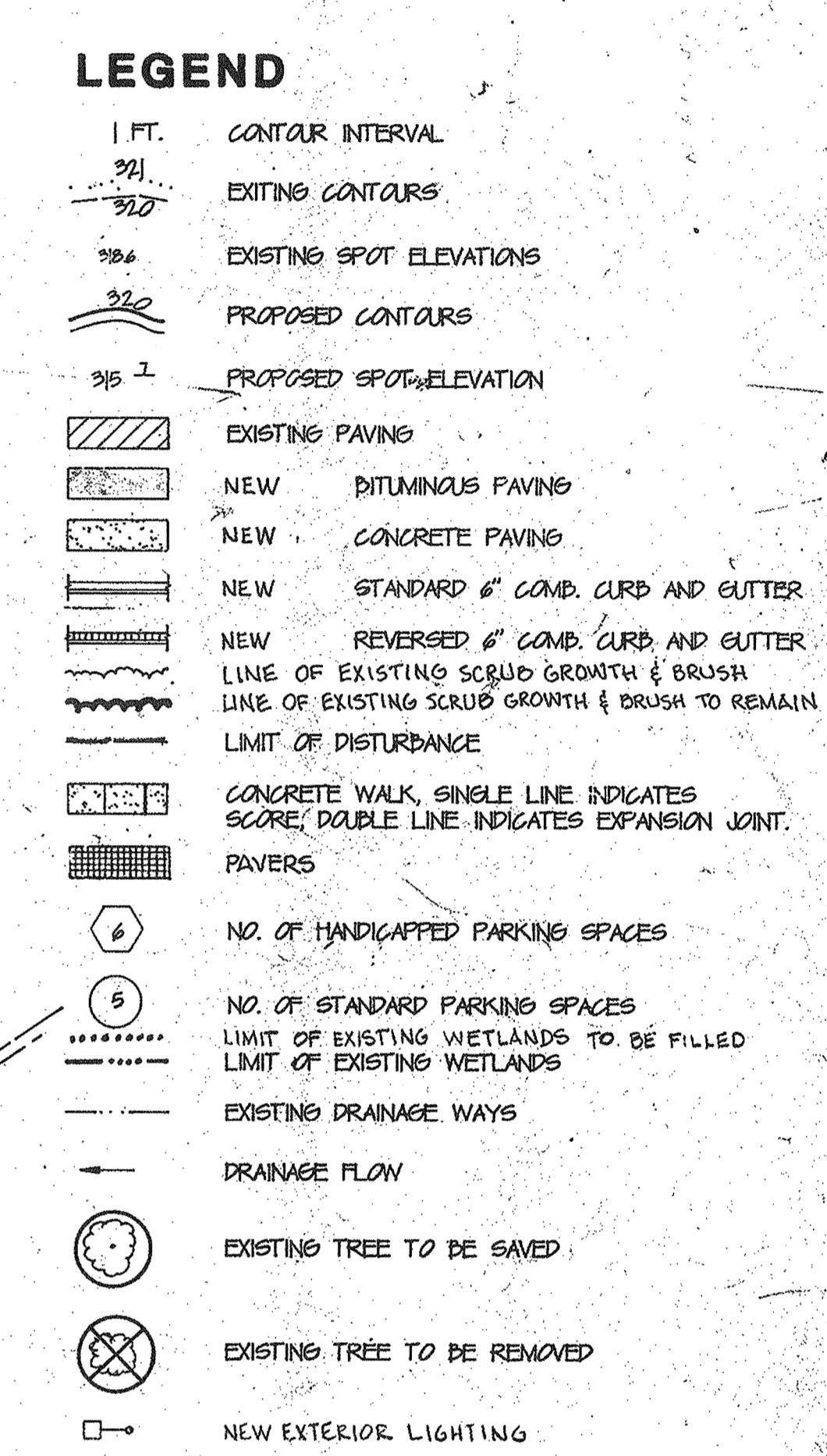
APPROVED: HOWARD COUNTY BOARD OF BUILDINGS AND GROUNDS
APPROVED: HOWARD COUNTY BOARD OF UTILITIES

APPROVED: HOWARD COUNTY BOARD OF BUILDINGS AND GROUNDS
APPROVED: HOWARD COUNTY BOARD OF UTILITIES

Table with columns: NO., DATE, REVISIONS. Includes revisions like 'ADD OVERHEAD LIGHT POLES TO BEHIND NEW CURB'.

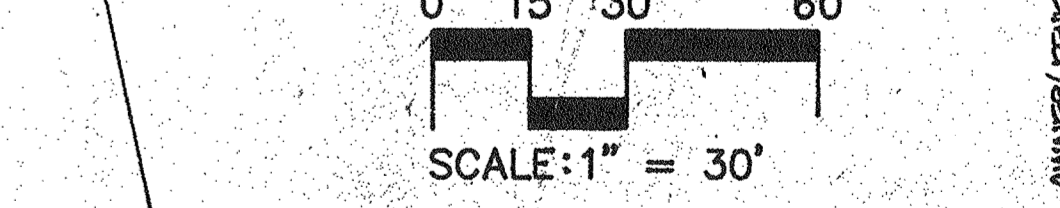


VICINITY MAP SCALE: 1" = 2000'



GENERAL NOTES:

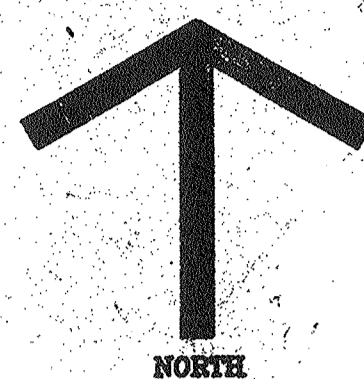
- 1. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION SPECIFICATIONS AND OPERATIONS.
2. COORDINATES ARE BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY MONUMENTS.



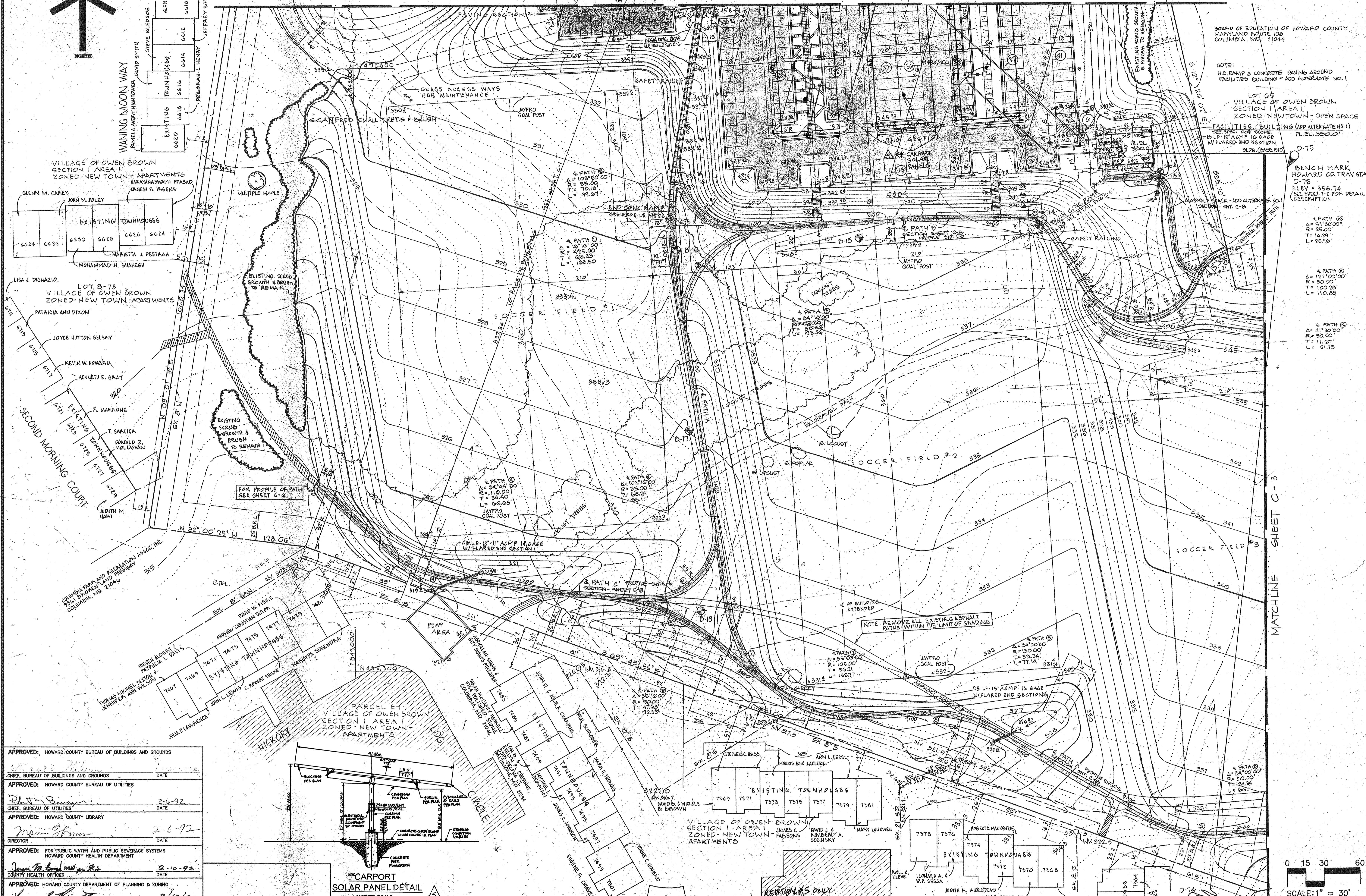
Site & Grading Plan EAST COLUMBIA LIBRARY. Includes address 6600 GRADLEROCK WAY, lot number, and project information.

GRIMM & PARKER ARCHITECTS
4061 POWDERMILL ROAD SUITE 401
CALVERTON, MARYLAND 20705 595-1000
SITE AND GRADING PLAN
EAST COLUMBIA LIBRARY
HOWARD COUNTY MARYLAND

SHEET 1 OF 19
SCALE: 1" = 30'



MATCHLINE SHEET C-1



BOARD OF EDUCATION OF HOWARD COUNTY  
MARYLAND ROUTE 100  
COLUMBIA, MD. 21044

NOTE:  
H.C. RAMP & CONCRETE PAVING AROUND  
FACILITIES BUILDING - ADD ALTERNATE NO. 1

LOT 68  
VILLAGE OF OWEN BROWN  
SECTION I AREA  
ZONED-NEW TOWN - OPEN SPACE  
FACILITIES BUILDING (ADD ALTERNATE NO. 1)  
SEE SHEET C-1 FOR NOTES  
15' x 15' IS A 10' x 10' GAGE  
W/ FLARED END SECTION  
BLDG. (BASE DIO) 0-75

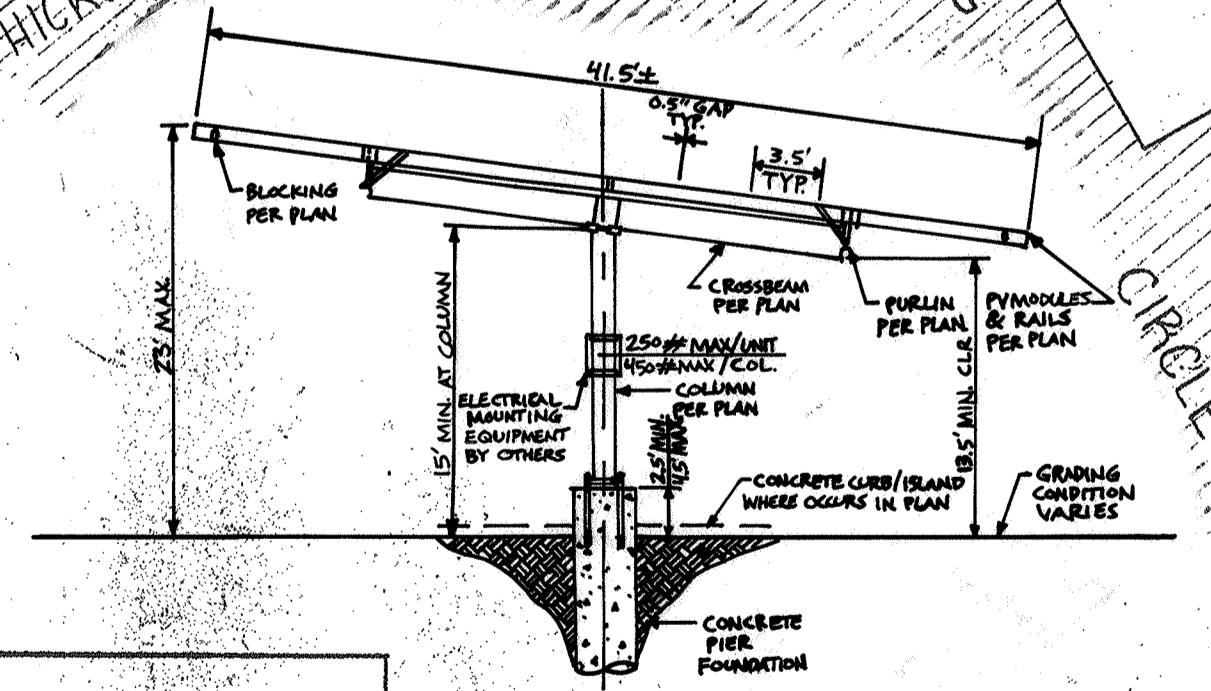
BENCH MARK  
HOWARD CO. TRAV. STA. D-75  
ELEV. = 356.74  
(SEE SHEET C-1 FOR DETAILED  
DESCRIPTION)

4 PATH @  
R = 50.00'  
T = 11.02'  
L = 25.16'

4 PATH @  
R = 127.00'  
T = 30.00'  
L = 110.83'

4 PATH @  
R = 50.00'  
T = 100.25'  
L = 21.75'

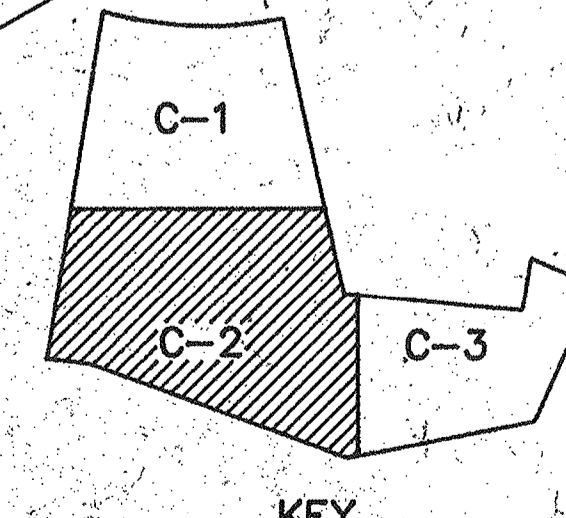
MATCHLINE SHEET C-3



NOTES:  
1. THE MAXIMUM HEIGHT OF THE OVERHEAD CABINET SHALL BE 7'4" FROM THE GROUND.  
2. THE OVERHEAD CABINET SHALL BE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL SETBACKS.  
3. THE OVERHEAD CABINET SHALL BE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL SETBACKS.  
4. THE OVERHEAD CABINET SHALL BE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL SETBACKS.  
5. THE OVERHEAD CABINET SHALL BE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL SETBACKS.  
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9. THE OVERHEAD CABINET SHALL BE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL SETBACKS.  
10. THE OVERHEAD CABINET SHALL BE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL SETBACKS.

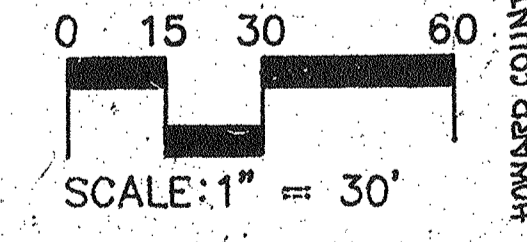
APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS	DATE
CHIEF, BUREAU OF BUILDINGS AND GROUNDS	DATE
APPROVED: HOWARD COUNTY BUREAU OF UTILITIES	DATE
CHIEF, BUREAU OF UTILITIES	DATE
APPROVED: HOWARD COUNTY LIBRARY	DATE
DIRECTOR	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	DATE
CHIEF, HEALTH OFFICE	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	DATE
PLANNING DIRECTOR	DATE
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE
DIRECTOR	DATE
CHIEF, BUREAU OF ENGINEERING	DATE

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 2/1/92  
dmc



REVISIONS ONLY  
2-3-23  
PROFESSIONAL ENGINEER

NO.	REVISION	DATE
3	ADD OVERHEAD CABINET SOLAR PANELS AND REVISE LANDSCAPING	2-3-23
4	ADD ROOFTOP SOLAR PANELS TO EXISTING BUILDING	12-6-21



### SITE & GRADING PLAN EAST COLUMBIA LIBRARY

VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A & B  
ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATENT PARKWAY, COLUMBIA, MARYLAND 21044  
DATE: OCTOBER 15, 1991  
SCALE: 1" = 30'  
SHEET 2 OF 19



**GRIMM & PARKER ARCHITECTS**  
4061 POWDERMILL ROAD SUITE 401  
CALVERTON, MARYLAND 20705 595-1000

**SITE AND GRADING PLAN**  
**EAST COLUMBIA LIBRARY**  
HOWARD COUNTY, OWNER/DEVELOPER: PARCELS A, PARCELS B, PARCELS C, PARCELS D

C-2



MATCHLINE SHEET C-1

BOARD OF EDUCATION OF HOWARD COUNTY  
MARYLAND ROUTE 102  
COLUMBIA, MD 21044

NOTE:  
H.C. RAMP & CONCRETE PAVING AROUND  
FACILITIES BUILDING - ADD ALTERNATE NO. 1

LOT 63  
VILLAGE OF OWEN BROWN  
SECTION 1 AREA 1  
ZONED: NEW TOWN - OPEN SPACE

FACILITIES BUILDING (ADD ALTERNATE NO. 1)  
SEE SPEC. FOR SCOPE  
15' LF. 15' ACMP. 16' GAGE  
W/ FLARED END SECTIONS  
BLDG. (BASE DTD) D-75  
F.L. EL. 350.0'

BENCH MARK  
HOWARD CO. TRAV. STA.  
D-75  
ELEV. = 356.74  
(SEE SHEET T-2 FOR DETAILED  
DESCRIPTION)

4 PATH @  
Δ = 547.00'  
R = 50.00'  
T = 14.24'  
L = 26.96'

4 PATH @  
Δ = 127.00'  
R = 25.00'  
T = 10.25'  
L = 11.75'

4 PATH @  
Δ = 547.00'  
R = 50.00'  
T = 14.24'  
L = 26.96'

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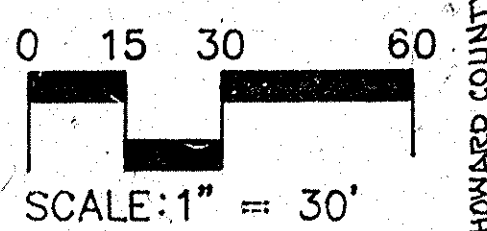
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L = 11.75'

4 PATH @  
Δ = 547.00'  
R = 50.00'  
T = 14.24'  
L = 26.96'



MATCHLINE SHEET C-3

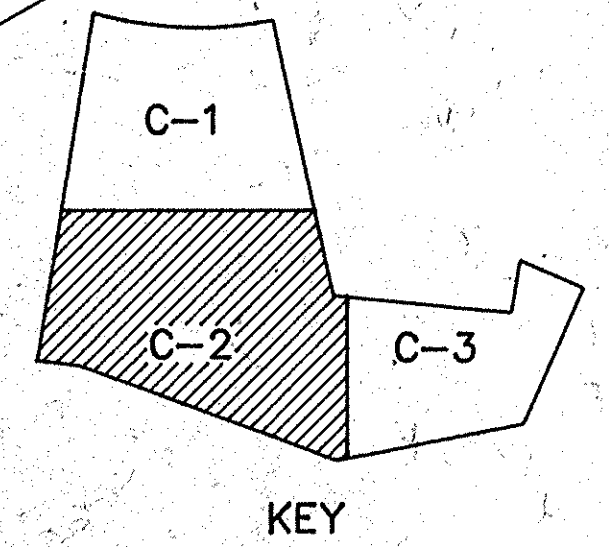


**SITE & GRADING PLAN  
EAST COLUMBIA LIBRARY**

VILLAGE OF OWEN BROWN SECTION 1 AREA 1 PARCELS A & B  
ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND  
OWNED BY THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0008  
DATE: OCTOBER 15, 1991 SCALE: 1" = 30' SHEET 2 OF 19

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS	DATE
CHIEF, BUREAU OF BUILDINGS AND GROUNDS	
APPROVED: HOWARD COUNTY BUREAU OF UTILITIES	DATE
<i>Richard Berman</i>	2-6-92
CHIEF, BUREAU OF UTILITIES	
APPROVED: HOWARD COUNTY LIBRARY	DATE
<i>Miriam Shorrock</i>	2-6-92
DIRECTOR	
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	DATE
<i>Joan M. Boyd MD PHD</i>	2-10-92
COUNTY HEALTH OFFICER	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	DATE
<i>James K. Korte</i>	2/12/92
PLANNING DIRECTOR	
APPROVED: CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT	DATE
<i>Thomas H. Hiltner</i>	2/12/92
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT	
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE
<i>John P. ...</i>	2/6/92
DIRECTOR	
APPROVED: CHIEF BUREAU OF ENGINEERING	DATE
<i>William E. Elzey</i>	2/6/92
CHIEF BUREAU OF ENGINEERING	

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 2-4-92  
dus

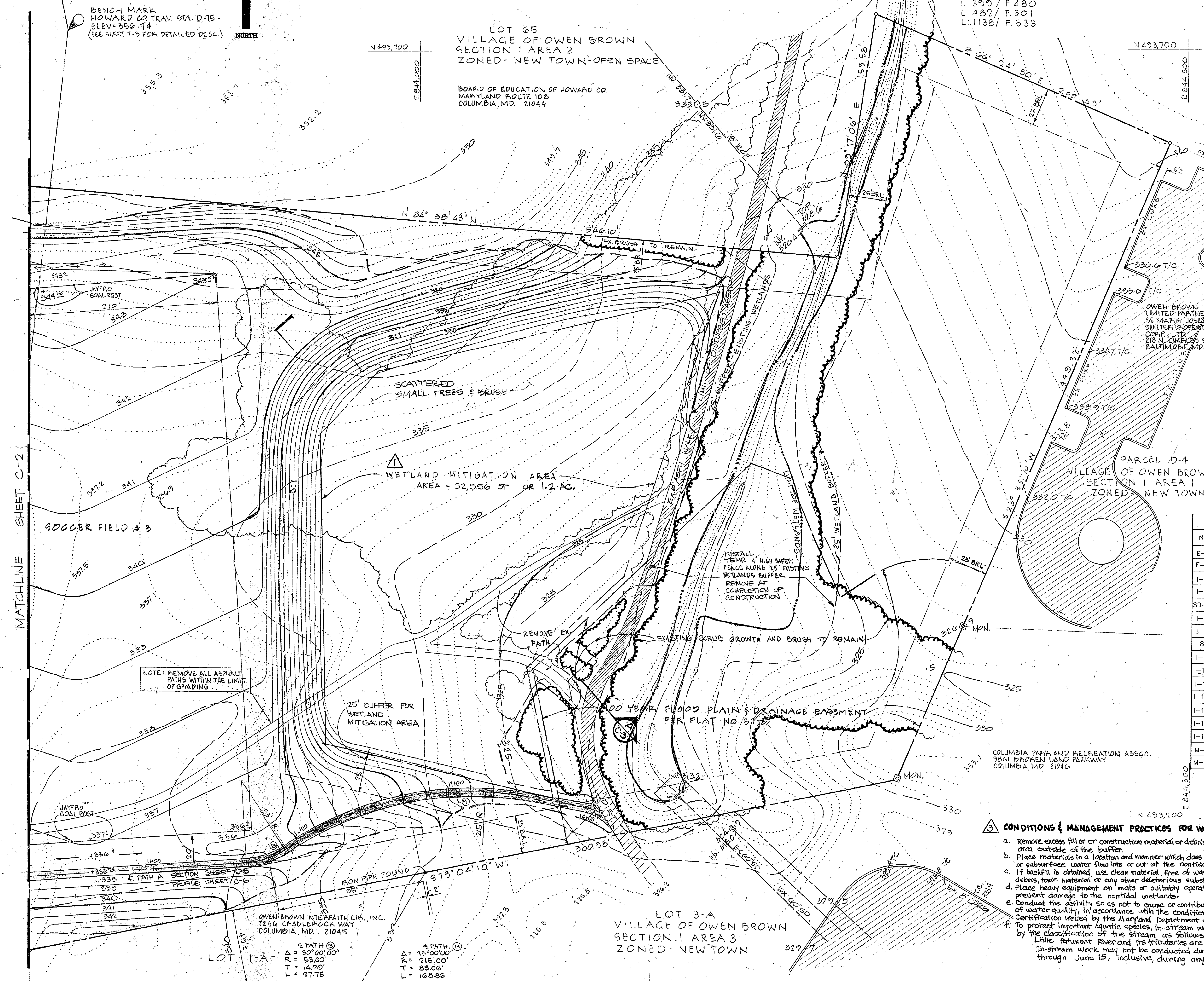
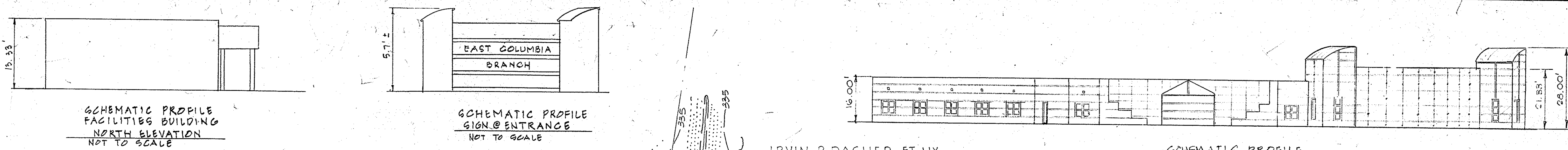


**GRIMM & PARKER ARCHITECTS**  
4061 POWDERMILL ROAD, SUITE 401  
CALVERTON, MARYLAND 20705 595-1000



**SITE AND GRADING PLAN  
EAST COLUMBIA LIBRARY  
HOWARD COUNTY MARYLAND**

**C-2**



IRVIN P DASHER ET UX  
L 399 / F 480  
L 482 / F 501  
L 1138 / F 533

IRVIN P & GRACE DASHER,  
7030 CRADLE ROCK WAY  
COLUMBIA, MD 21045

**NOTE: GOAL POSTS TO BE JAYFRO FOSC-200 OFFICIAL FOOTBALL (SOCCER) GOALS, WITH OPTIONAL SLEEVE ASSEMBLY NO. 56P-732-6 JAYFRO CORPORATION 976 HARTFORD TURNPIKE, PO BOX 400 WATERFORD, CT 06485 1-800-243-0533**

**ABBREVIATIONS**

A	ASHTO	ARC	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANS. PORTATION OFFICIALS	LP	LIGHT POLE
AC	ACRES	ACCP	ARTIFACT COATED CORRUGATED METAL PIPE	LVP	LOWER VERTICAL PENN. MARKS
ADP	ALTERNATE APPROX. ASTM	ADP	ALTERNATE APPROX. ASTM	MN	MIDDLE SCHOOL
B	BENCH MARK	B&E	BALTIMORE GAS AND ELECTRIC COMPANY	MNSA	MARYLAND STATE HIGHWAY ADMINISTRATION
B&E	BALTIMORE GAS AND ELECTRIC COMPANY	BRD	BUILDING RESTRICTION LINE	N	NOT APPLICABLE
BRD	BUILDING RESTRICTION LINE	CL	CENTER LINE	NT	NEW TOWN ON CENTERS
CL	CENTER LINE	CP	CURB FEET PER SECOND	NA	NUMBER
CP	CURB FEET PER SECOND	CR	CRANE	NA	NOT APPLICABLE
CR	CRANE	CS	CORROBATED METAL PIPE	NT	NEW TOWN ON CENTERS
CS	CORROBATED METAL PIPE	DA	DRAINAGE AREA	NA	NUMBER
DA	DRAINAGE AREA	DM	DRIVE	NT	NEW TOWN ON CENTERS
DM	DRIVE	DR	DRAIN	NA	NUMBER
DR	DRAIN	DWG	DRAWING	NT	NEW TOWN ON CENTERS
DWG	DRAWING	E	ELECTRIC	NA	NUMBER
E	ELECTRIC	E&E	ELECTRIC CONDUIT ELEVATION	NT	NEW TOWN ON CENTERS
E&E	ELECTRIC CONDUIT ELEVATION	ELEV	ELEVATION	NA	NUMBER
ELEV	ELEVATION	EMT	ELECTRIC METER	NT	NEW TOWN ON CENTERS
EMT	ELECTRIC METER	EW	ELECTRIC WIRE	NA	NUMBER
EW	ELECTRIC WIRE	EX	EXISTING	NT	NEW TOWN ON CENTERS
EX	EXISTING	F	FLOOR	NA	NUMBER
F	FLOOR	FF	FISHED FLOOR	NT	NEW TOWN ON CENTERS
FF	FISHED FLOOR	FI	FIRE INLET	NA	NUMBER
FI	FIRE INLET	FT	FIRE TRUCK TIE	NT	NEW TOWN ON CENTERS
FT	FIRE TRUCK TIE	GA	GRAVEL	NA	NUMBER
GA	GRAVEL	HD	HORIZONTAL BEND	NT	NEW TOWN ON CENTERS
HD	HORIZONTAL BEND	HS	HORIZONTAL SLOPE	NA	NUMBER
HS	HORIZONTAL SLOPE	HL	HEAD LOSS	NT	NEW TOWN ON CENTERS
HL	HEAD LOSS	HORIZ	HORIZONTAL	NA	NUMBER
HORIZ	HORIZONTAL	HP	HIGH POINT	NT	NEW TOWN ON CENTERS
HP	HIGH POINT	IN	INVERT	NA	NUMBER
IN	INVERT	INVERT	INVERT	NT	NEW TOWN ON CENTERS
INVERT	INVERT	L	LINEAR FEET	NA	NUMBER
L	LINEAR FEET				

**STRUCTURE SCHEDULE**

NO.	TYPE	INV. IN		TOP ELEVATION		REMARKS	LOCATION
		IN	OUT	UPPER	LOWER		
E-1	TYPE "C" ENDWALL	321.00	—	—	—	HOWARD CO. STD. SD-5.21	G&E PLANS
E-2	TYPE "C" ENDWALL	—	339.80	—	—	HOWARD CO. STD. SD-5.21	
I-2	A-10 INLET	328.84	324.45	338.84	338.78	HOWARD CO. STD. SD-4.02	
I-3	A-5 INLET	337.00	335.00	341.63	341.63	HOWARD CO. STD. SD-4.01	
SD-4	ROOF DRAIN	—	—	—	—	—	
I-5	A-5 INLET	333.25	327.64	341.63	341.60	HOWARD CO. STD. SD-4.01	
I-7	A-10 INLET	332.14	330.15	343.37	343.25	HOWARD CO. STD. SD-4.02	
8	ROOF DRAIN	—	—	—	—	—	
I-9	A-5 INLET	—	338.20	345.11	344.24	HOWARD CO. STD. SD-4.01	
I-10	A-10 INLET	—	341.50	345.50	345.24	HOWARD CO. STD. SD-4.02	
I-11	A-5 INLET	—	341.00	344.76	344.70	HOWARD CO. STD. SD-4.01	
I-12	A-5 INLET	340.76	340.00	345.70	345.45	HOWARD CO. STD. SD-4.01	
I-13	TYPE "S" INLET	337.50	337.00	341.60	—	HOWARD CO. STD. SD-4.22	
I-14	A-10 INLET	—	EXISTING PIPE	324.84	324.00	HOWARD CO. STD. SD-4.02	
I-15	SPECIAL INLET	318.00	318.00	324.30	—	SEE DETAIL DWG. C-8	
M-1	5'-0" PRE-CAST MANHOLE	338.85	335.00	344.46	—	HOWARD CO. STD. G-5.13	
M-4	TYPE "D" INLET GRATE	313.50	312.70	318.83	—	HOWARD CO. STD. G-0.411	SEE PLANS

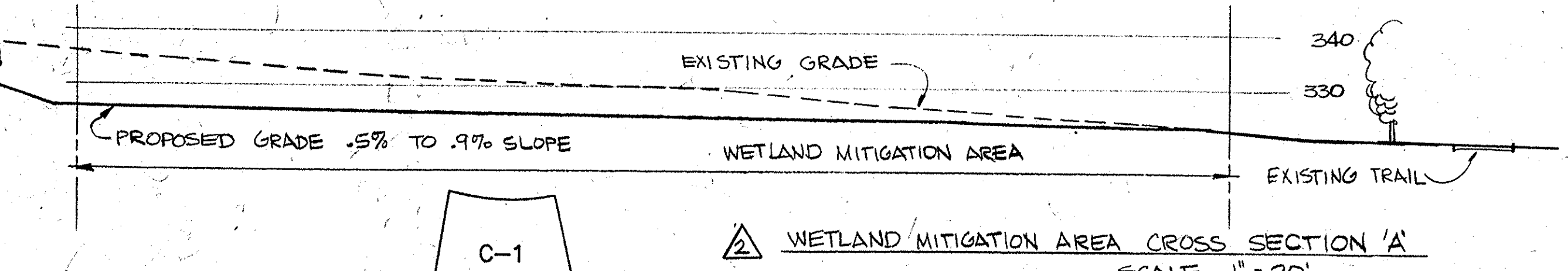
\* MODIFIED INSIDE DIMENSIONS TO 26" x 20" x 20"; PROVIDE OPENINGS IN N, S & E SIDES

**PIPE SCHEDULE**

SIZE	TYPE	LENGTH
12"	C.M.P.	10'
15"	R.C.P. CL III	495'
18"	R.C.P. CL III	74'
18"	R.C.P. CL IV	48'
30"	R.C.P. CL III	346'
30"	R.C.P. CL IV	147'
33"	R.C.P. CL III	173'
15"	ACMP 16 GAGE	46'
15"x11"	ACMP 16 GAGE	4-8'

**CONDITIONS & MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS**

- Remove excess fill or construction material or debris to an upland disposal area outside of the buffer.
- Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of the non-tidal wetland.
- If backfill is obtained, use clean material, free of waste metal products, unsightly debris, toxic material or any other deleterious substances.
- Place heavy equipment on mats or suitably operate the equipment to prevent damage to the non-tidal wetlands.
- Conduct the activity so as not to cause or contribute to a degradation of water quality, in accordance with the conditions of the Water Quality Certification issued by the Maryland Department of the Environment.
- To protect important aquatic species, in-stream work is prohibited as determined by the classification of the stream as follows: Little Patuxent River and its tributaries are Class I Waterways. In-stream work may not be conducted during the period March 1 through June 15, inclusive, during any year.



**APPROVED**  
DATE: 2-4-92  
2-4-92

**APPROVED:** FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
*Jay M. Boyd* 2-10-92

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*James B. Boyd* 2/12/92

**APPROVED:** HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
*James B. Boyd* 2/12/92

**APPROVED:** HOWARD COUNTY BUREAU OF UTILITIES  
*James B. Boyd* 2-6-92

**APPROVED:** FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James B. Boyd* 2/12/92

**APPROVED:** HOWARD COUNTY LIBRARY  
*James B. Boyd* 2-6-92

**REVISIONS**

NO.	DATE	REVISIONS
2	2-11-92	ADD CONDITIONS & MNGMT PRACTICES IN WETLANDS.
3	2-11-92	ADD CROSS SECTION 'A' - WETLAND AREA.
1	2-11-92	REVISE WETLANDS MITIGATION AREA GRADES.

**SITE & GRADING PLAN**  
**EAST COLUMBIA LIBRARY**

VILLAGE OF OWEN BROWN SECTION 1 AREA 4 TOWN AND ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND

OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0203

DATE: OCTOBER 15, 1991

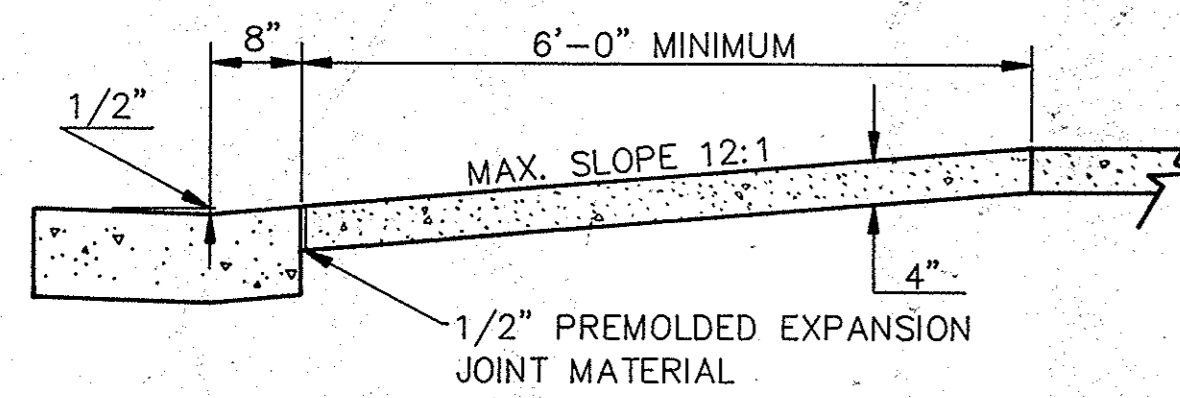
SHEET 3 OF 19

**GRIMM & PARKER ARCHITECTS**  
4061 POWDERMILL ROAD SUITE 401  
CALVERTON, MARYLAND 20705 595-1000

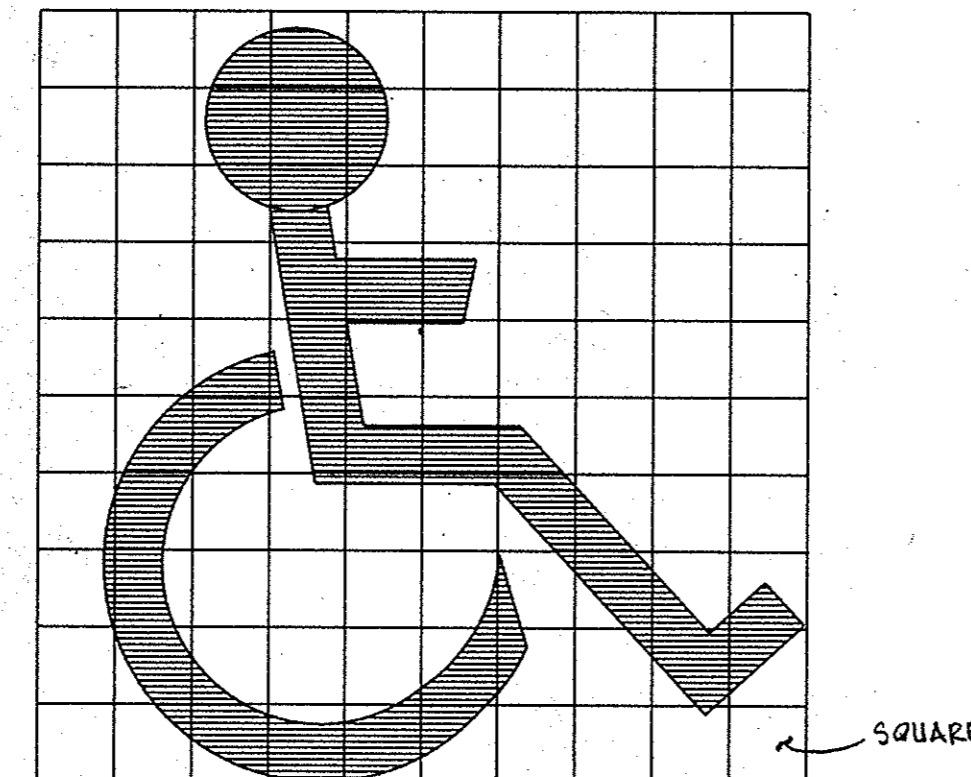
**SITE AND GRADING PLAN**

**EAST COLUMBIA LIBRARY**  
HOWARD COUNTY MARYLAND

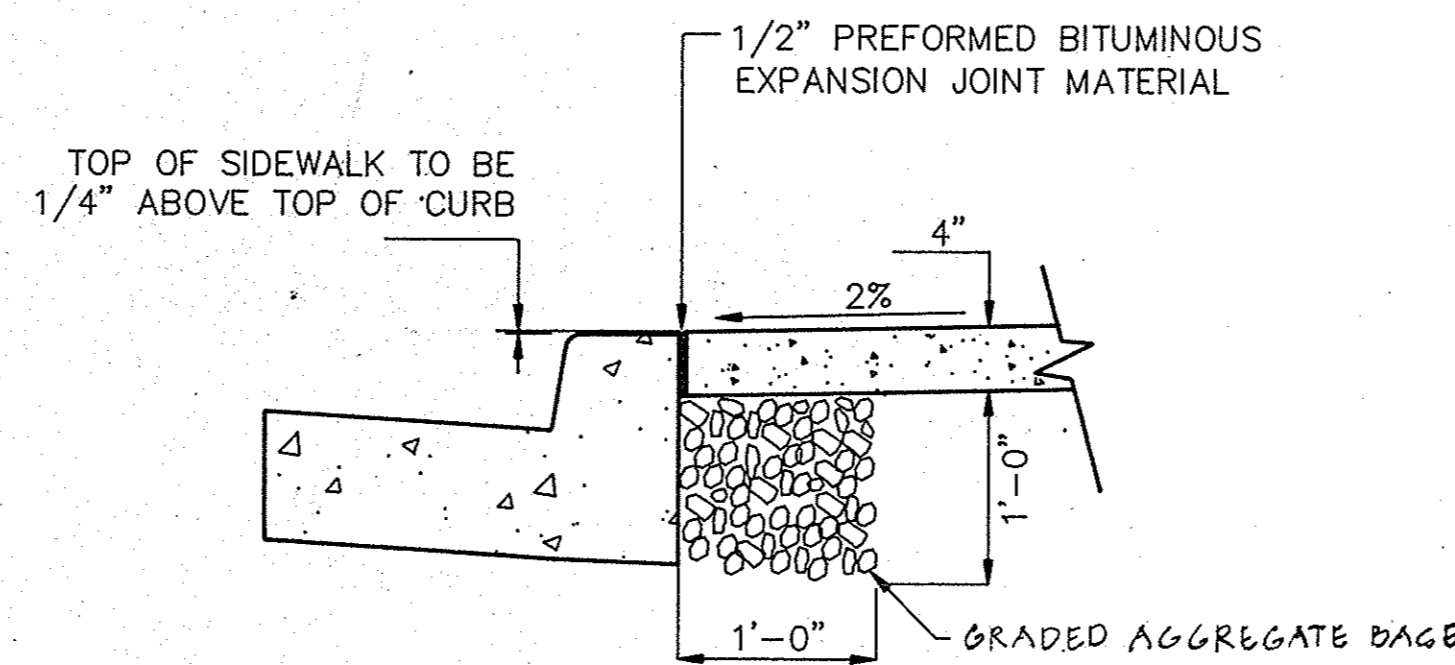
**C-3**



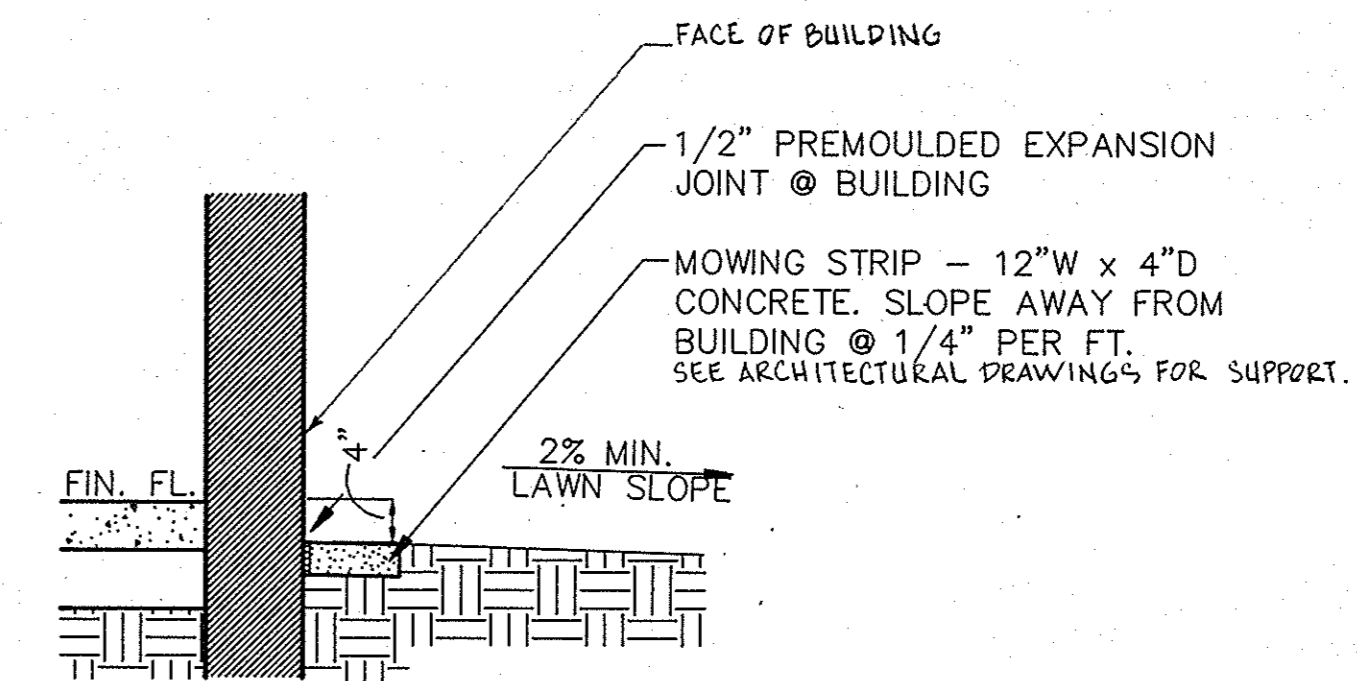
14 SECTION A-A  
SEE SECTION 10 THIS SHEET



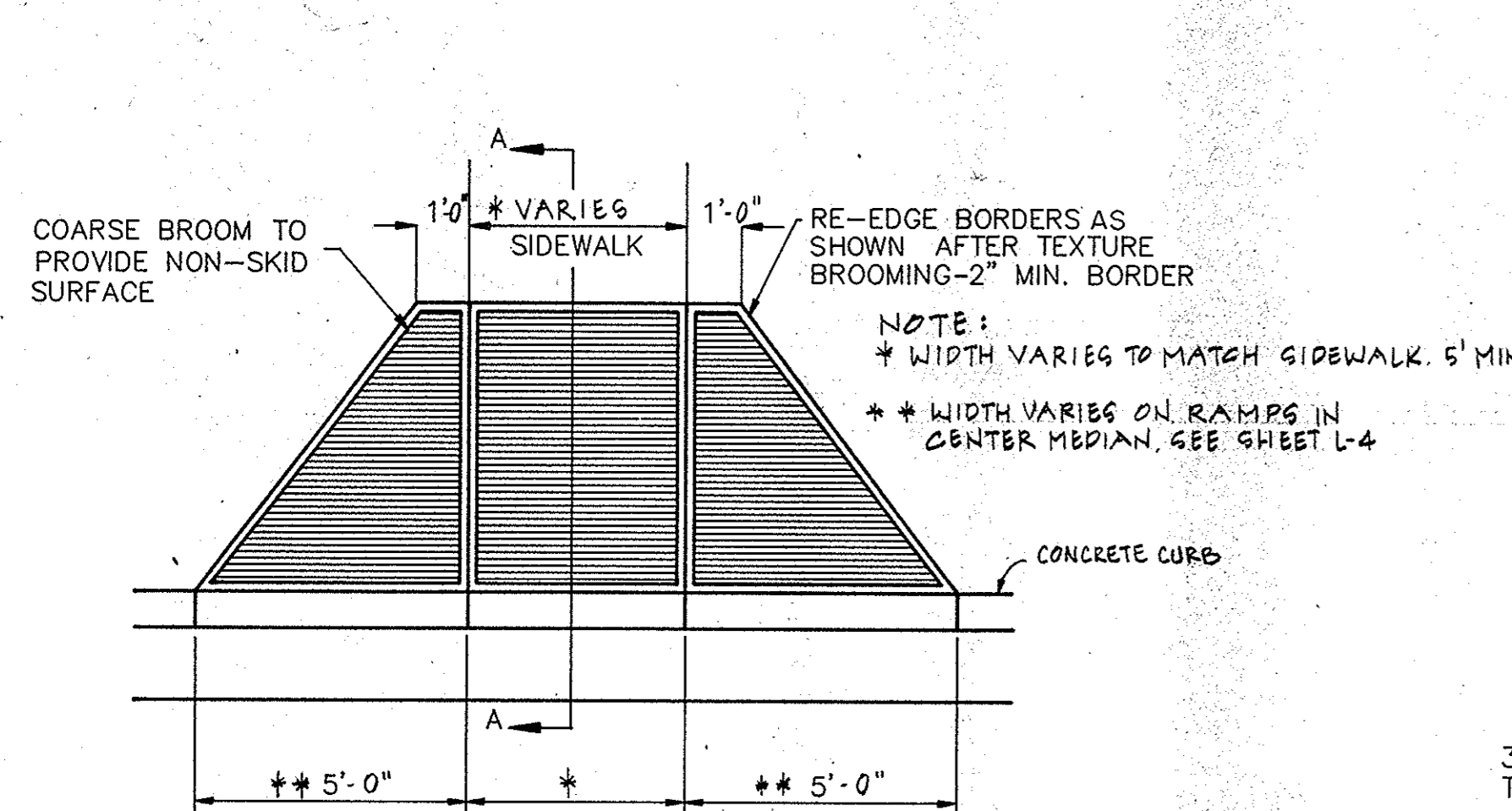
13 HANDICAPPED SYMBOL



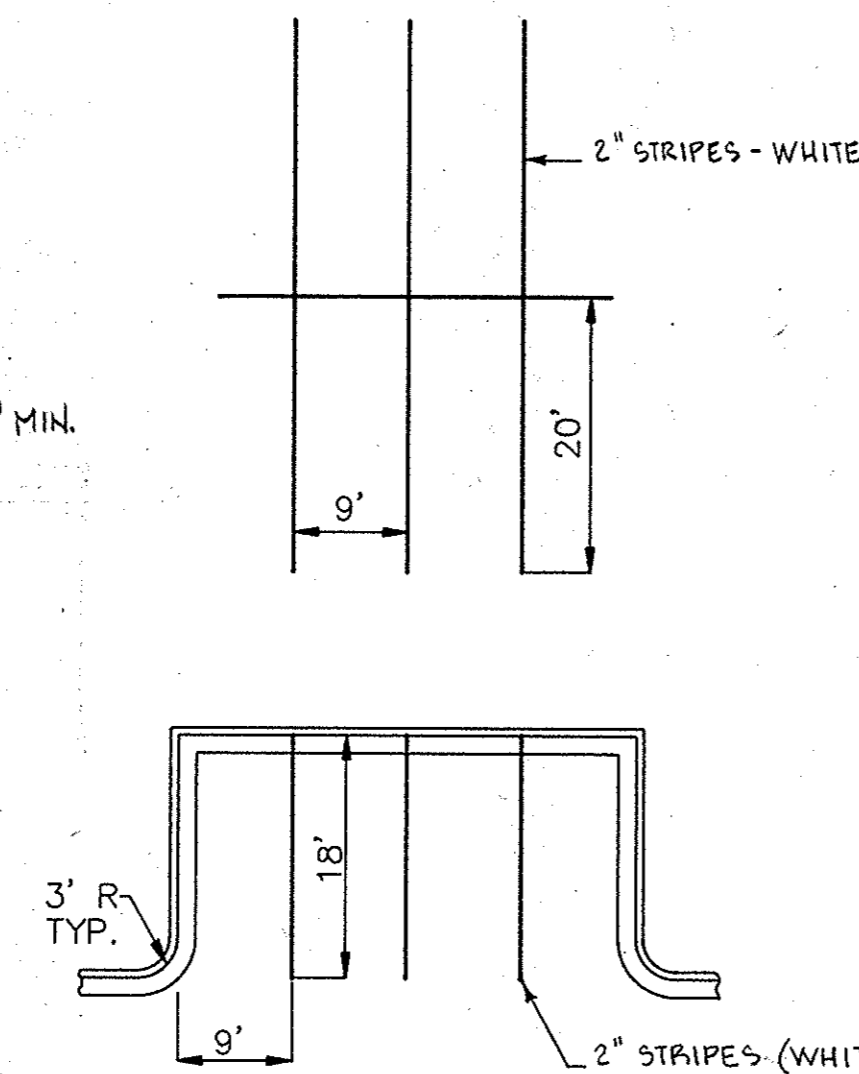
12 TYPICAL CONCRETE SIDEWALK ABUTTING CURB  
SCALE: 1" = 1'-0"



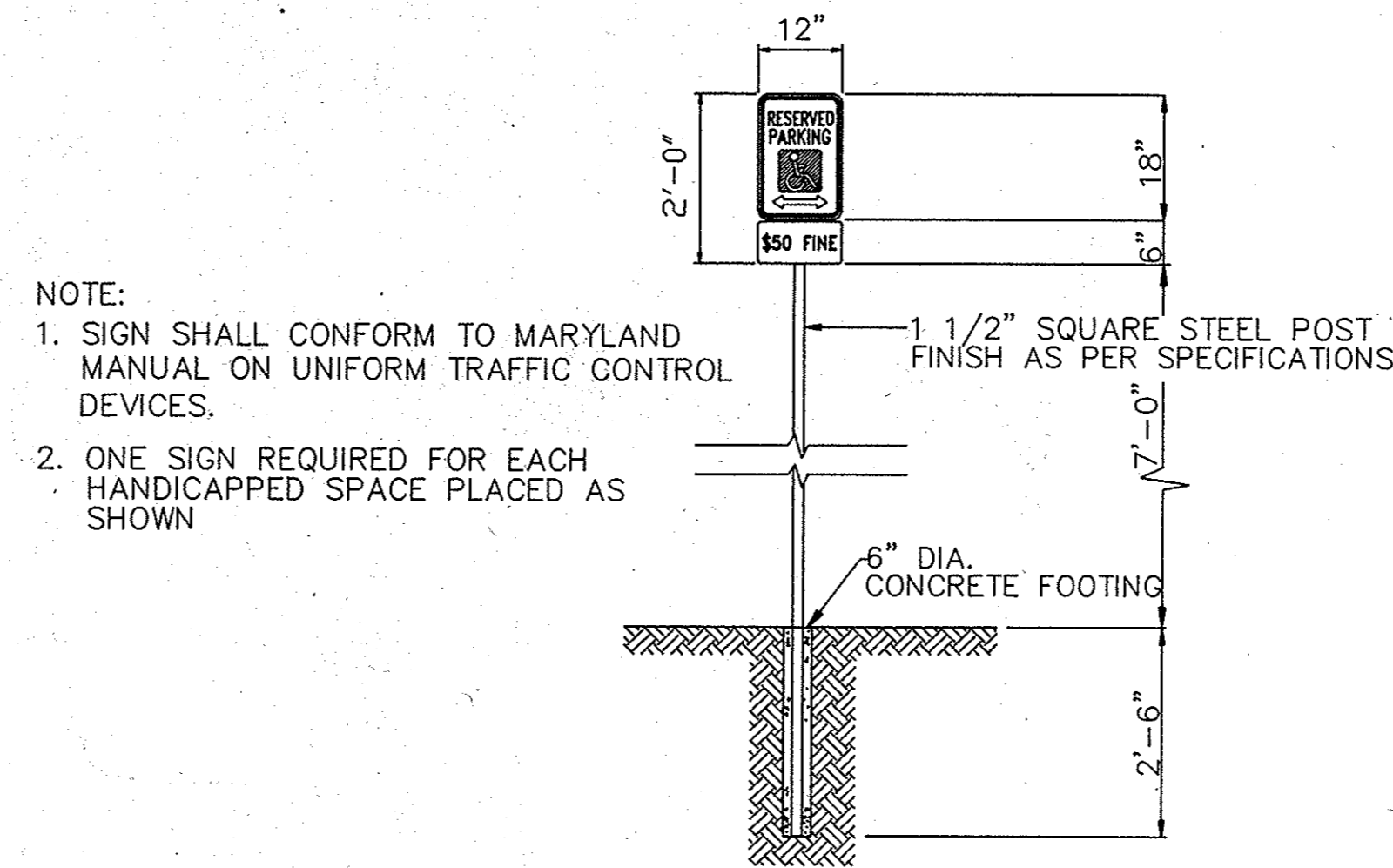
11 TYPICAL MOWING STRIP  
SCALE: 1/2" = 1'-0"



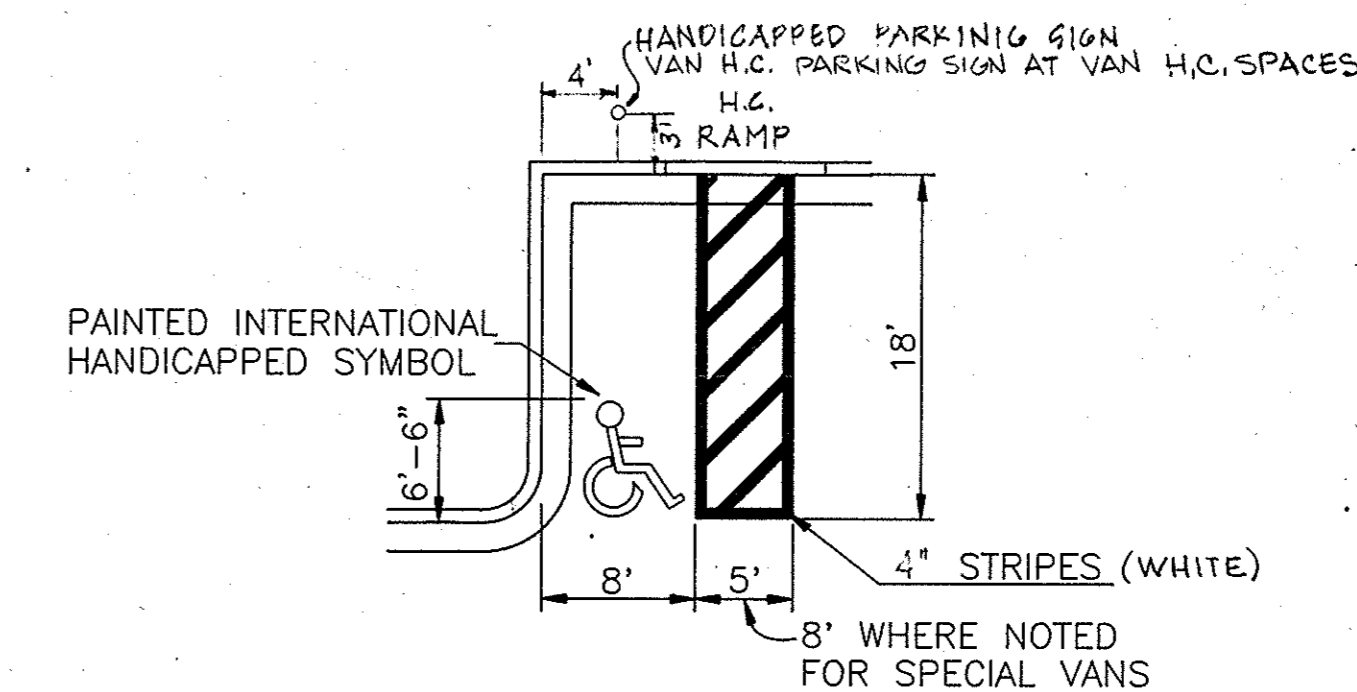
10 DETAIL - TYPICAL SIDEWALK RAMP  
NOT TO SCALE



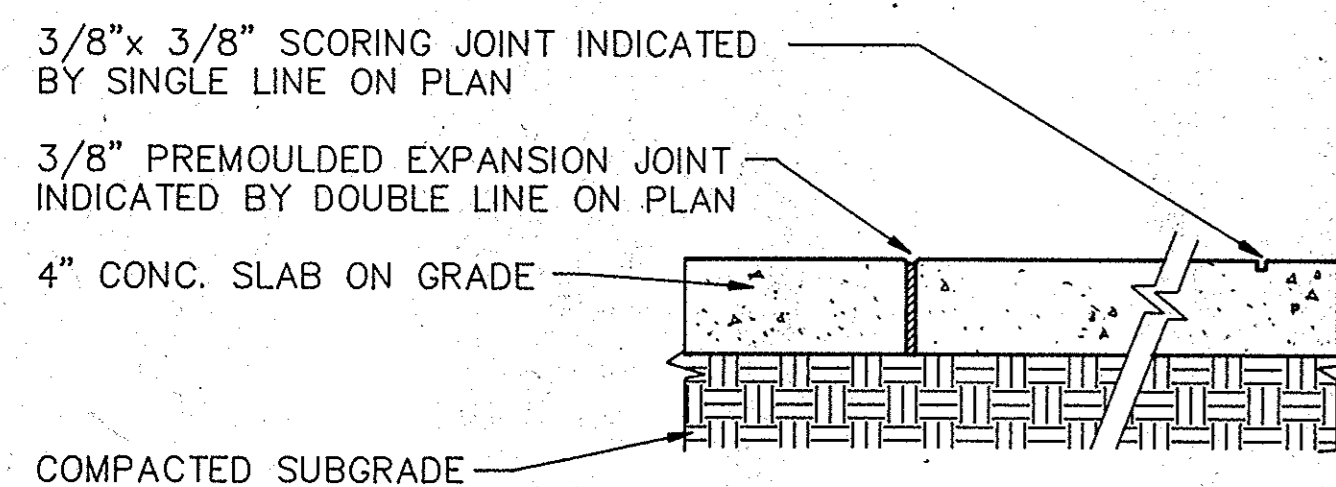
9 TYPICAL PARKING SPACE LAYOUT  
NOT TO SCALE



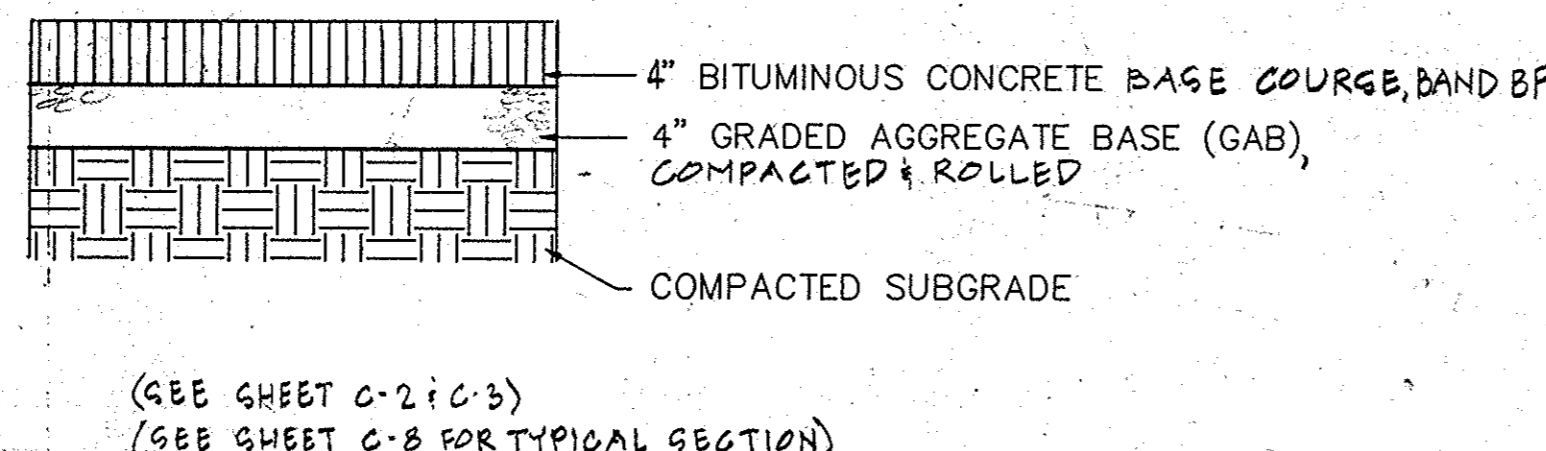
8 HANDICAPPED PARKING SIGN DETAIL (TYP.)  
NOT TO SCALE



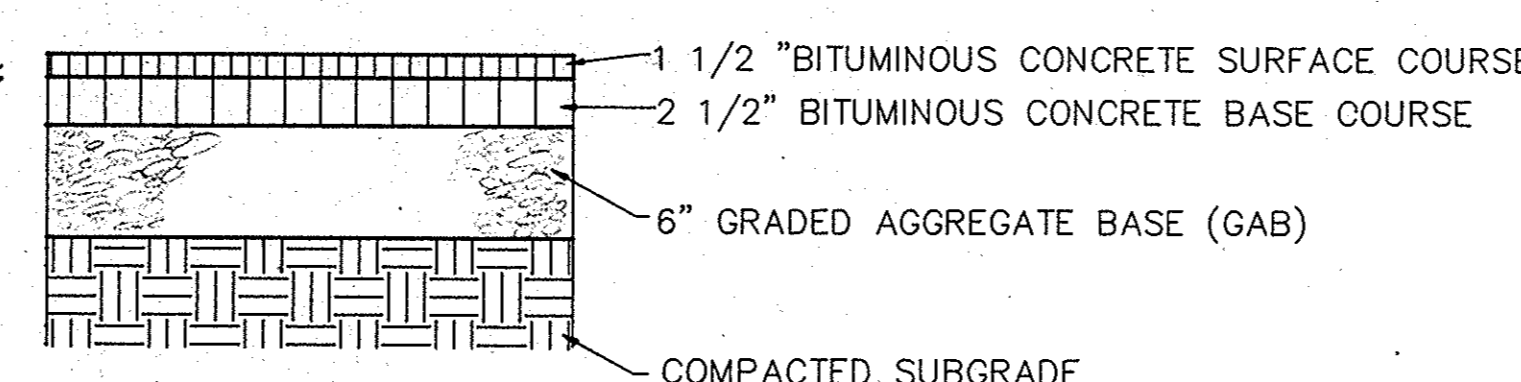
7 HANDICAPPED SPACE LAYOUT (TYP.)  
SCALE: 1" = 10'



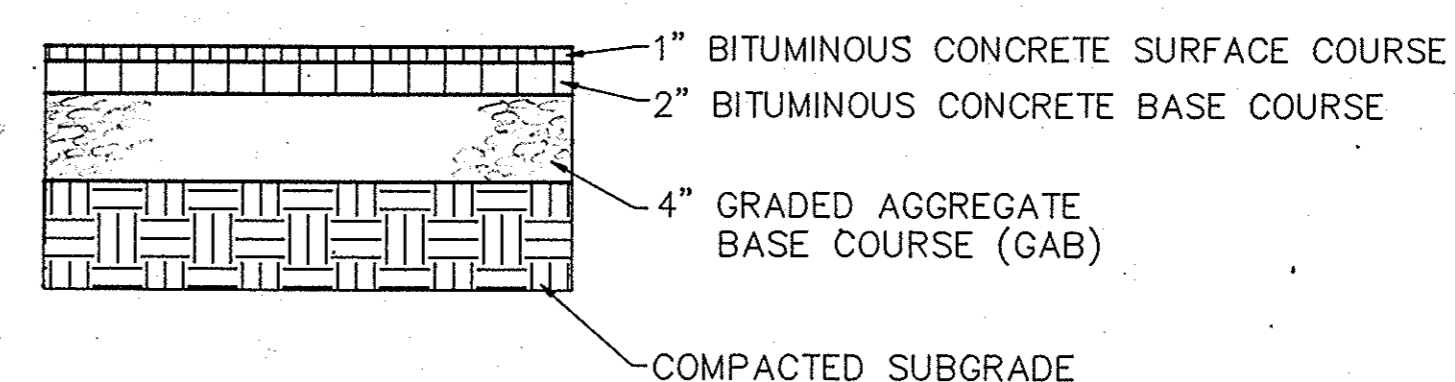
6 CONCRETE WALK (TYP.)  
SCALE 1 1/2" = 1'-0"



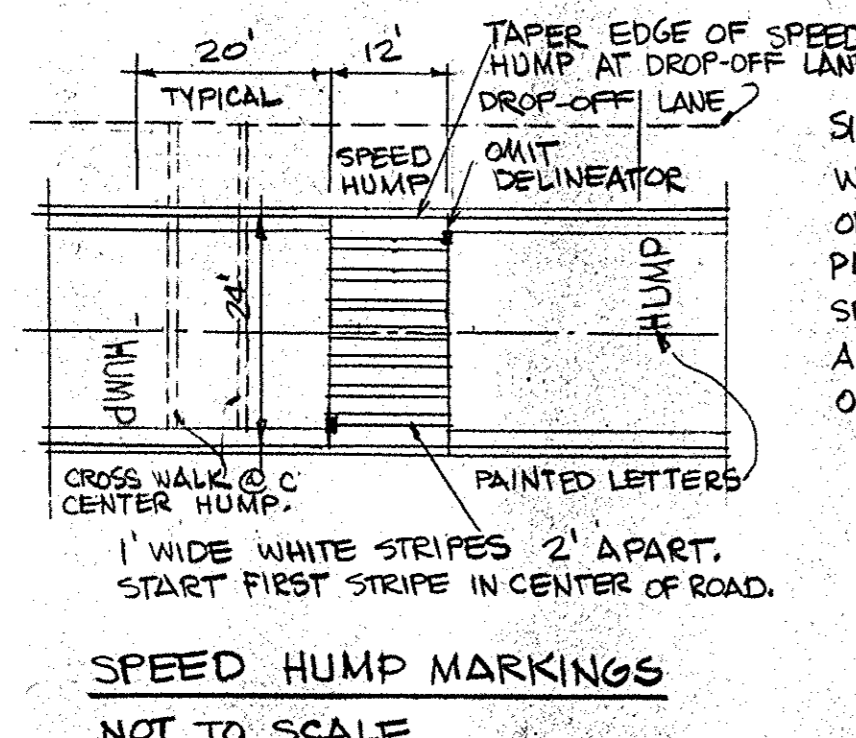
5 ASPHALT PAVING WALKING PATHS (TYP.)  
SCALE: 1" = 1'-0"



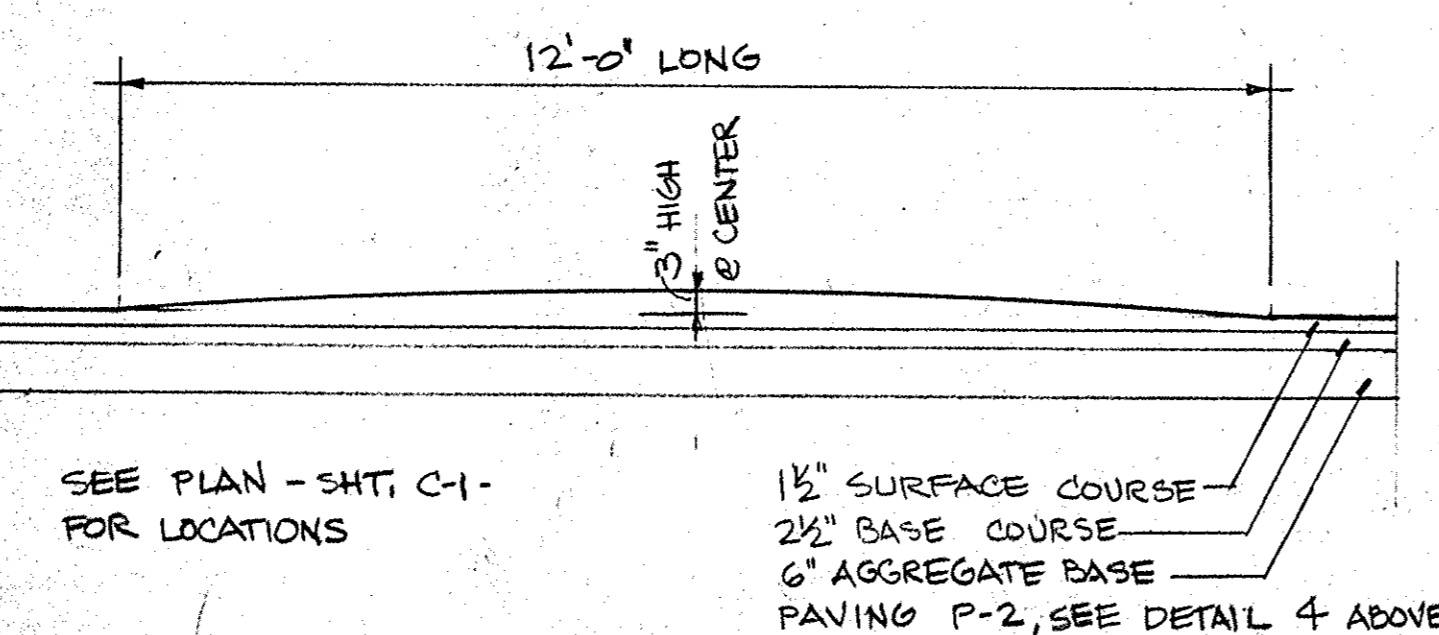
4 ASPHALT PAVING PARKING LOT (P-2) (TYP.)  
SCALE: 1" = 1'-0"



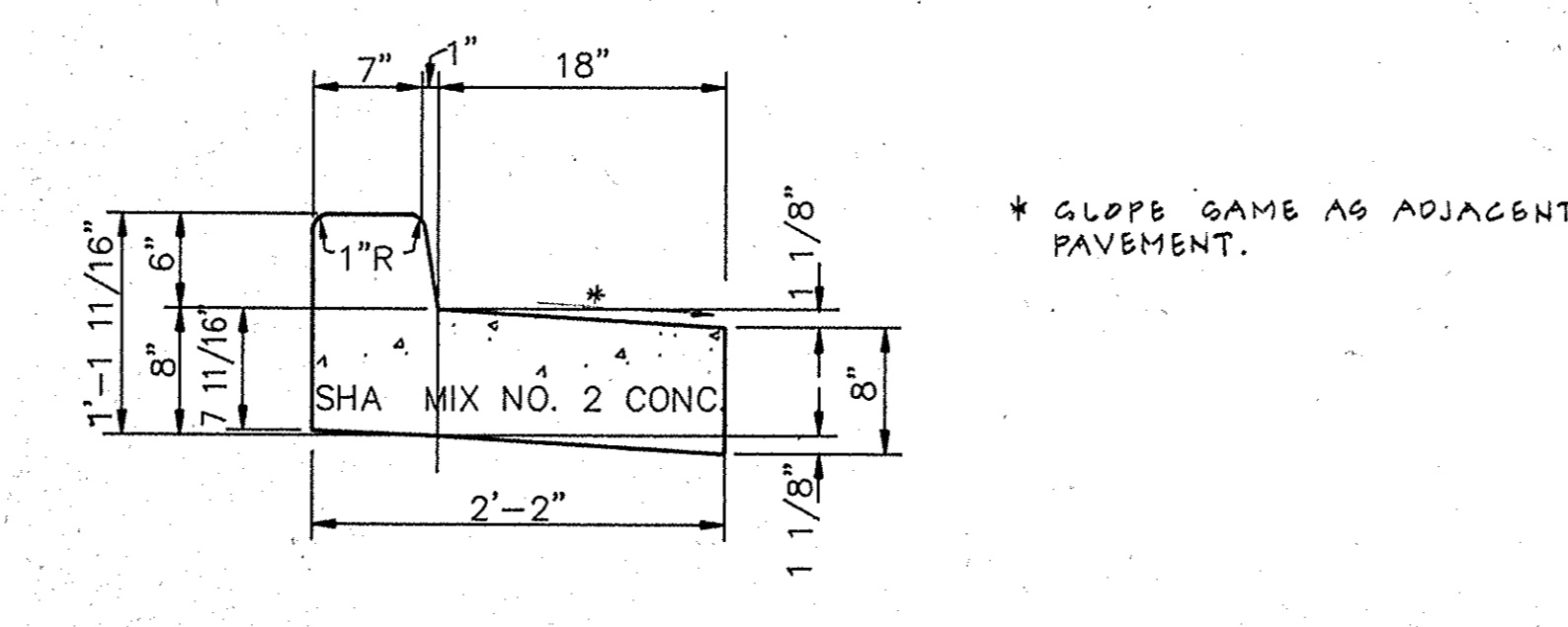
3 ASPHALT PAVING PARKING LOT (P-1) (TYP.)  
SCALE: 1" = 1'-0"



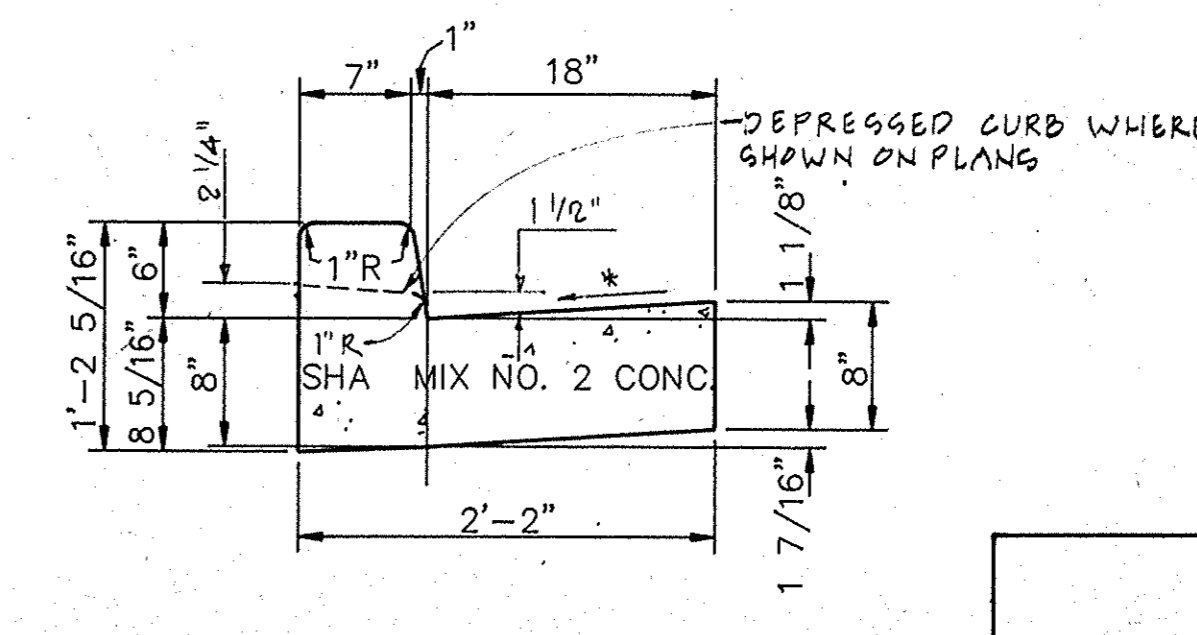
SPEED HUMP MARKINGS  
NOT TO SCALE



15 SPEED HUMP SECTION (TYP.)  
SCALE 1/2" = 1'-0"



2 REVERSE SLOPE 6" COMBINATION CURB AND GUTTER (TYP.)  
SCALE: 1" = 1'-0"

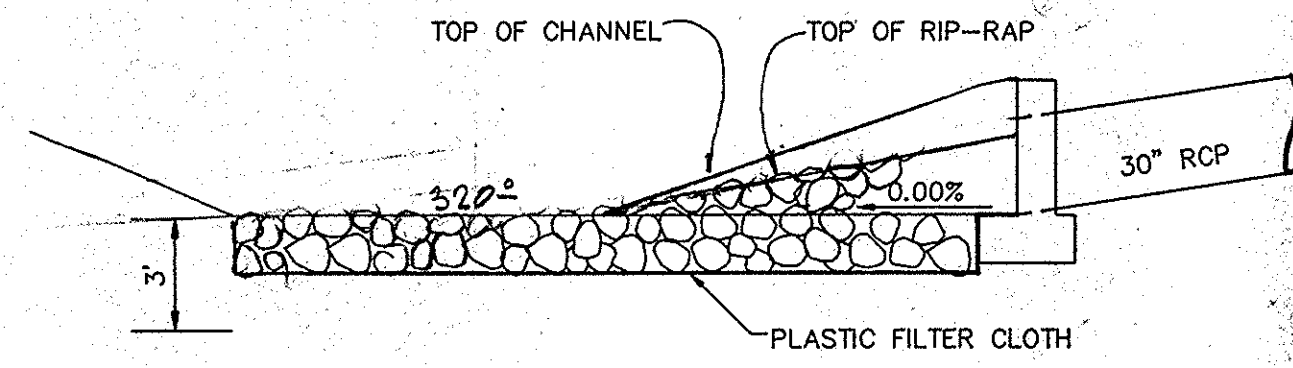


1 STANDARD 6" COMBINATION CURB AND GUTTER (TYP.)  
SCALE: 1" = 1'-0"

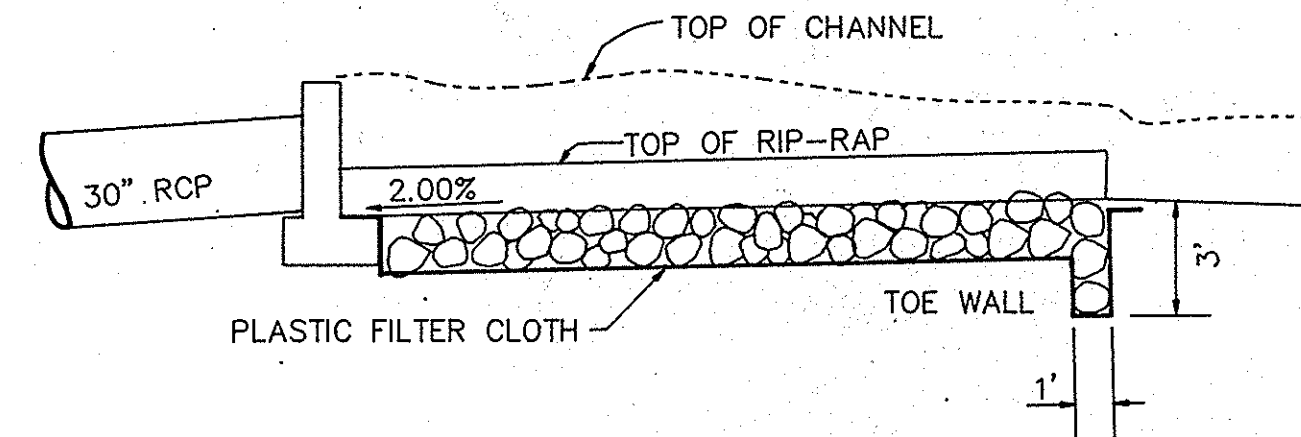
APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS	DATE: 2/15/92
APPROVED: HOWARD COUNTY BUREAU OF UTILITIES	DATE: 2-6-92
APPROVED: HOWARD COUNTY LIBRARY	DATE: 2-9-92
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	DATE: 2-10-92
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	DATE: 2/15/92
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE: 2/12/92
APPROVED: HOWARD COUNTY DEPARTMENT OF ENGINEERING	DATE: 2/6/92

APPROVED,  
PLANNING BOARD,  
OF HOWARD COUNTY.  
DATE: 2-6-92  
SLS

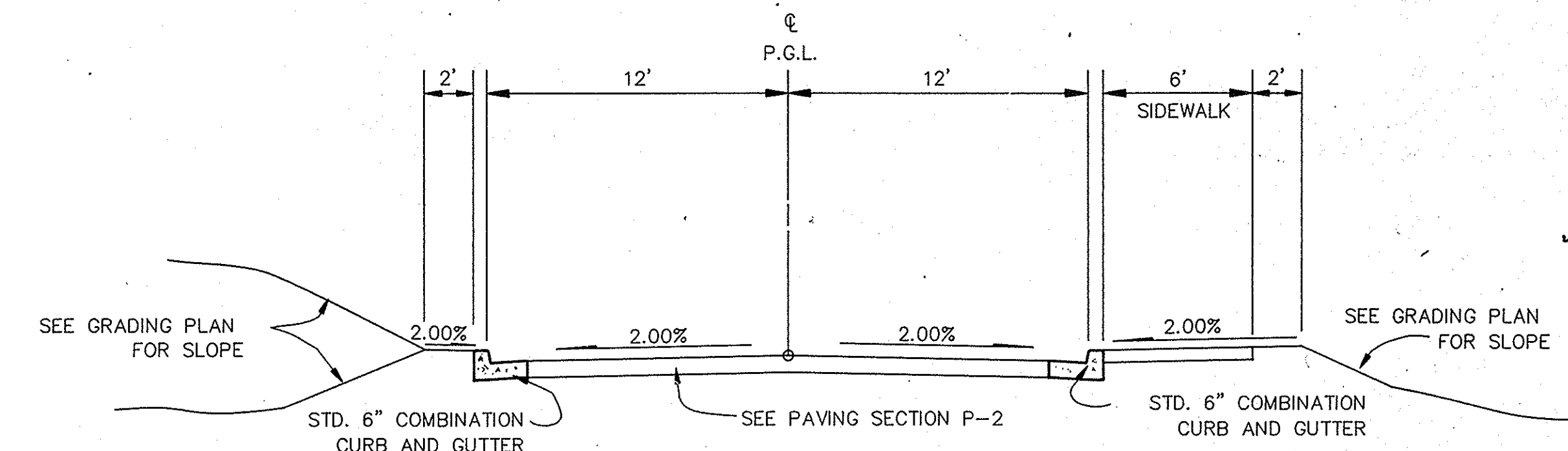
DETAILS  
EAST COLUMBIA LIBRARY  
VILLAGE OF OWEN BROWN SECTION 1 AREA 4 SHEETS A-4 D  
ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
TAX MAP # 30  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0008  
DATE: OCTOBER 15, 1991 SCALE: AS SHOWN SHEET 4 OF 19



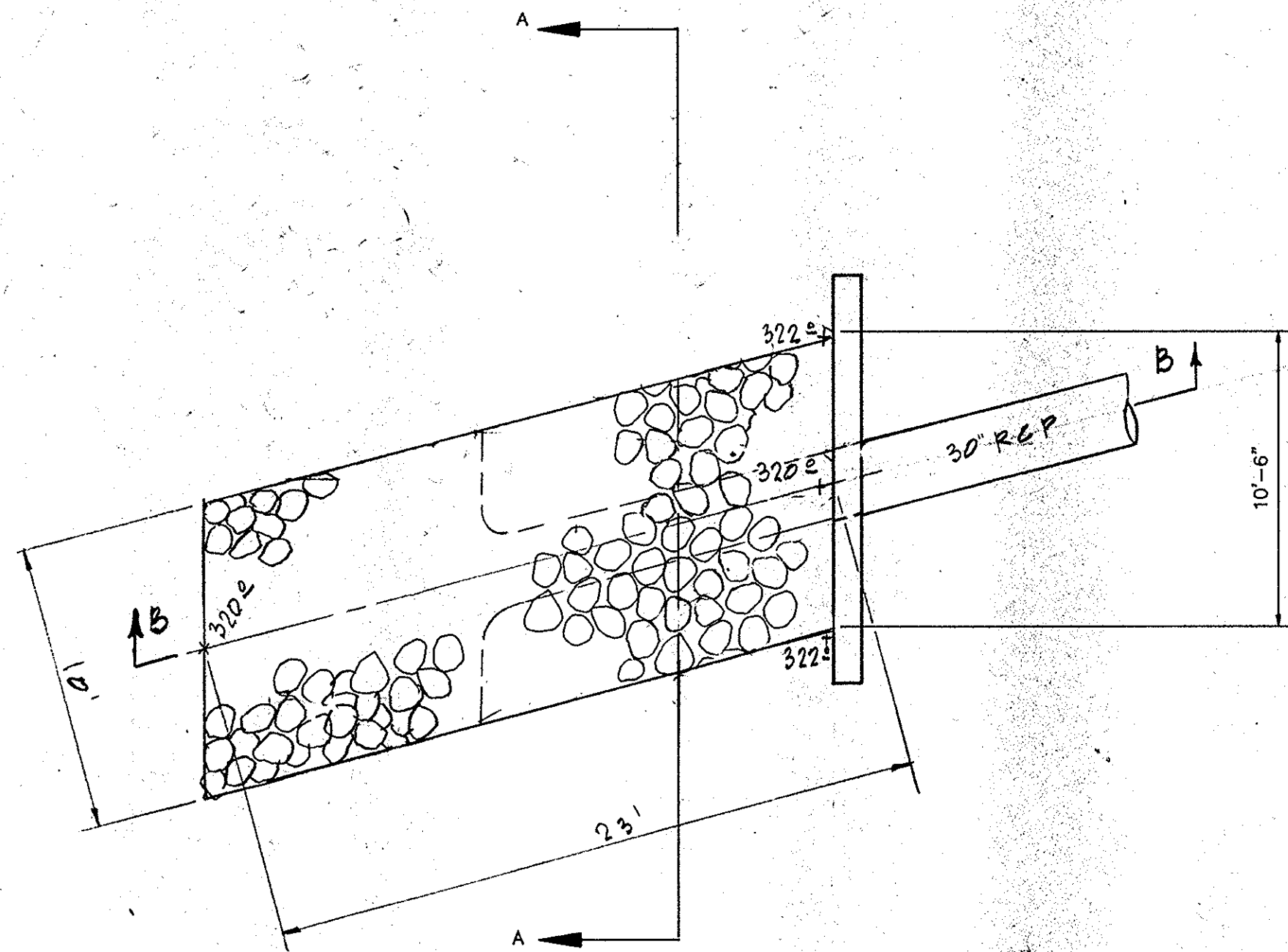
**SECTION B-B**  
NOT TO SCALE



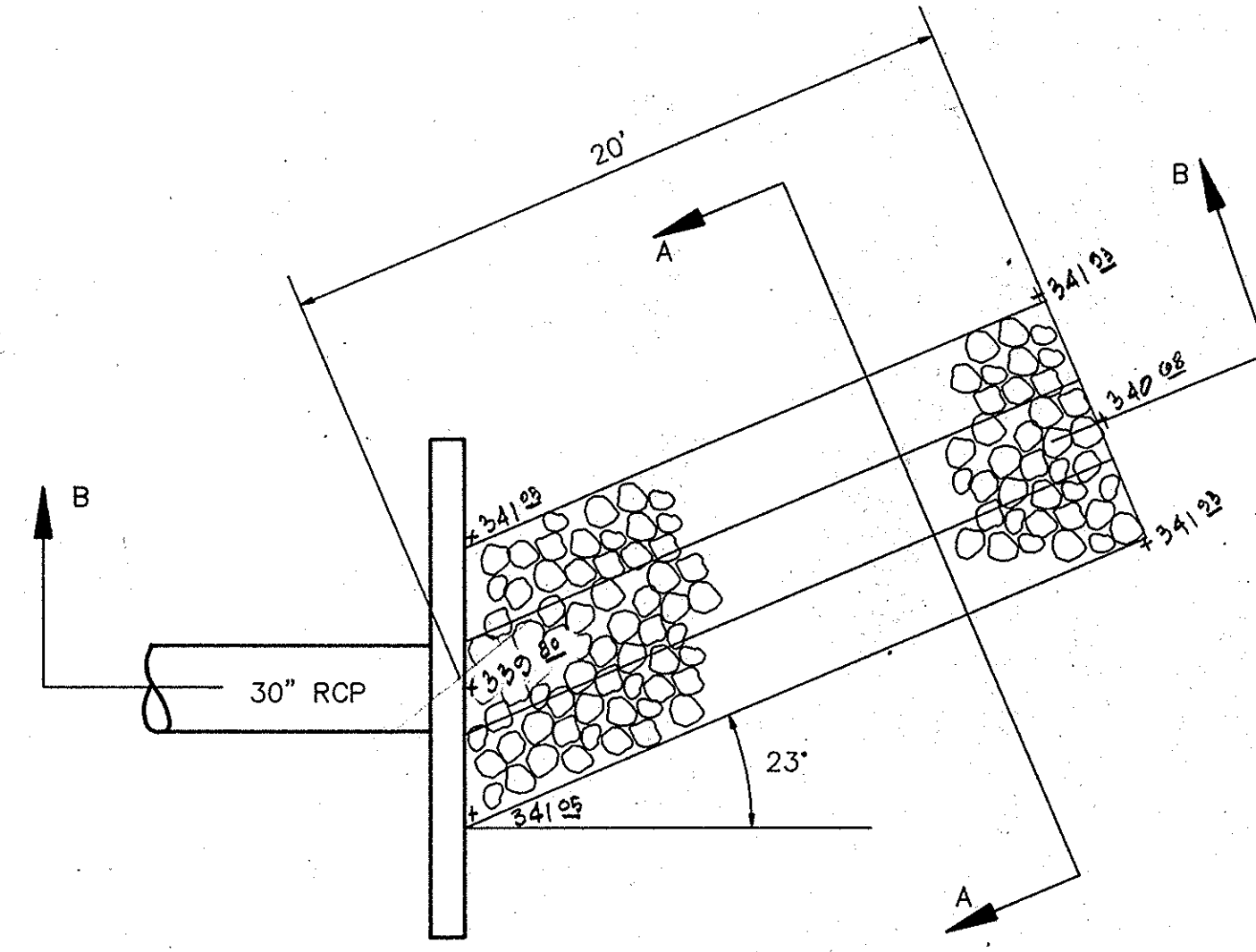
**SECTION B-B**  
SCALE: 1" = 5'



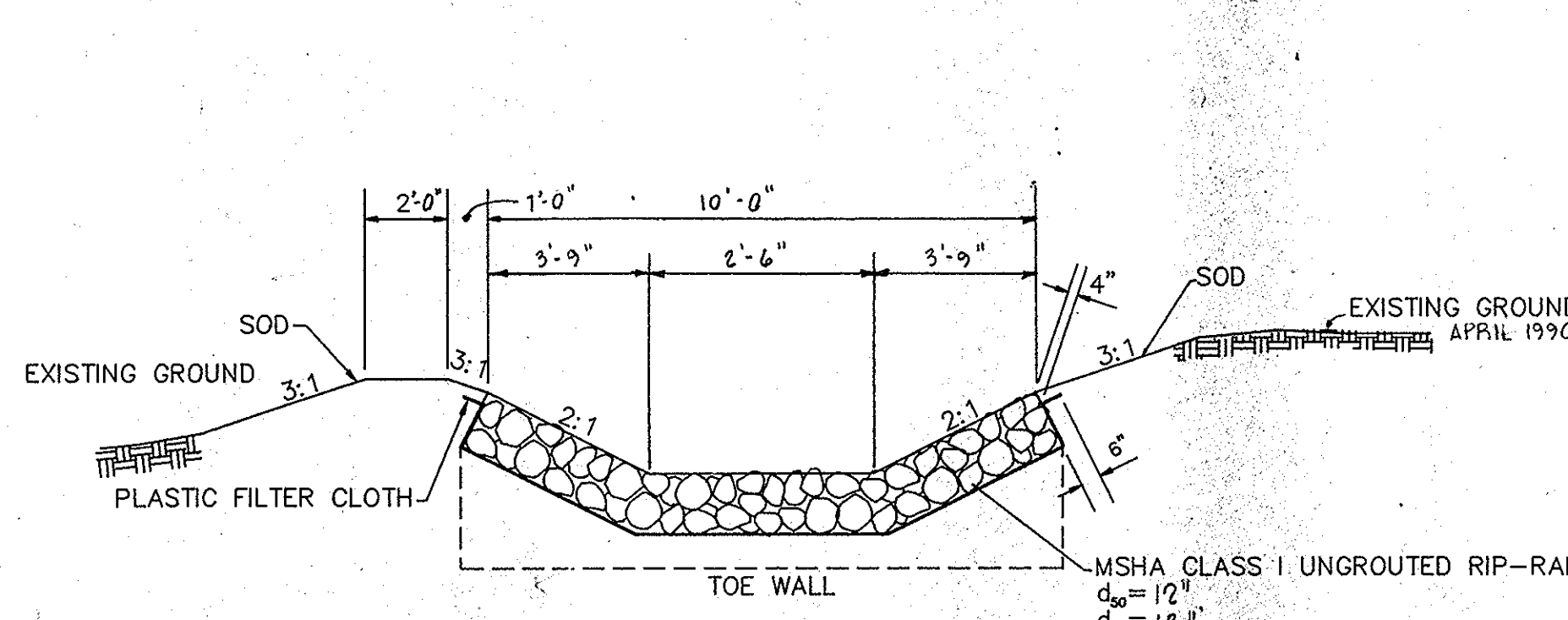
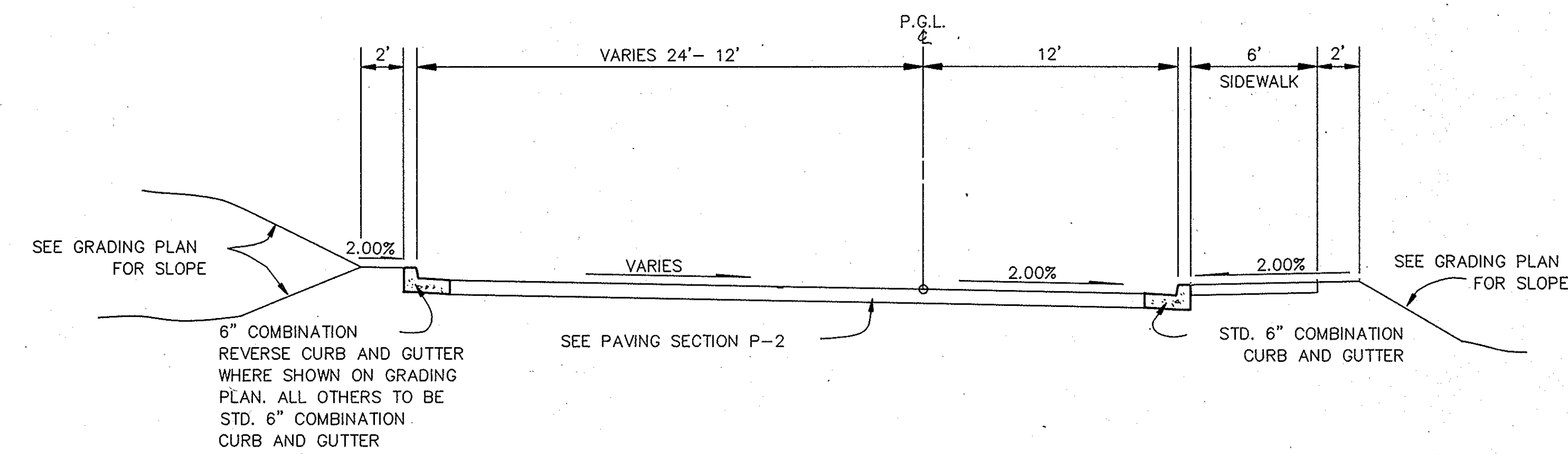
**TYPICAL SECTIONS**  
**ENTRANCE ROAD**  
SCALE: 1" = 5'



**PLAN**  
NOT TO SCALE

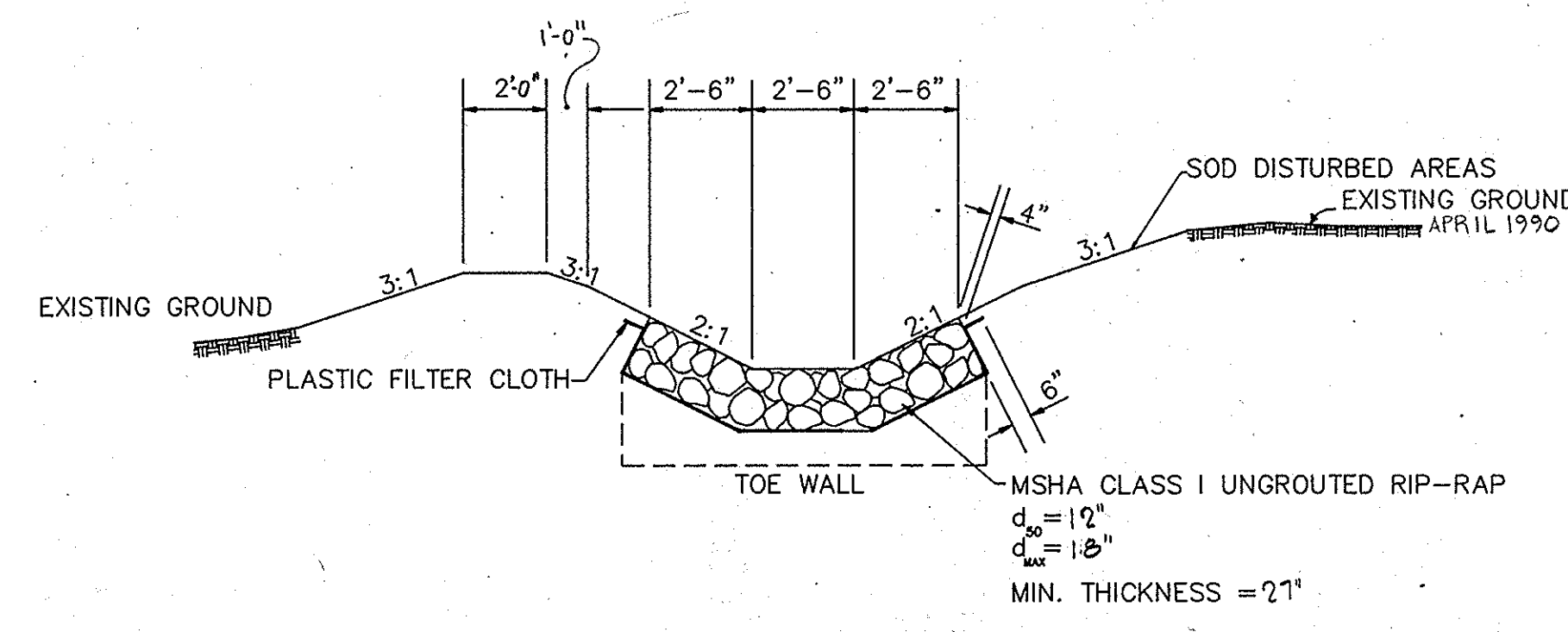


**PLAN**  
SCALE: 1" = 5'



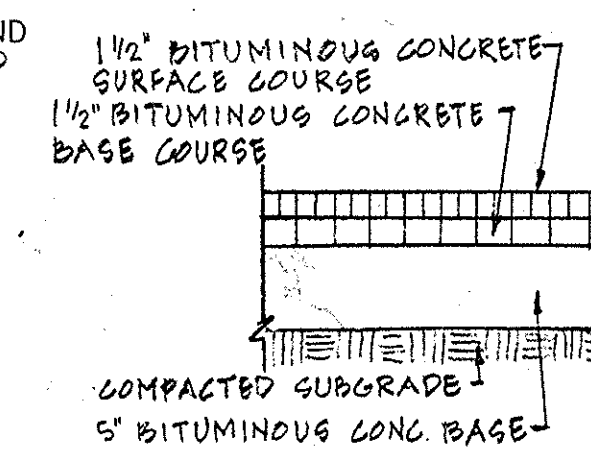
**SECTION A-A**  
NOT TO SCALE

**DETAIL**  
**UNGROUTED RIP-RAP OUTLET**  
**AT STRUCTURE E-1**  
SCALE AS NOTED

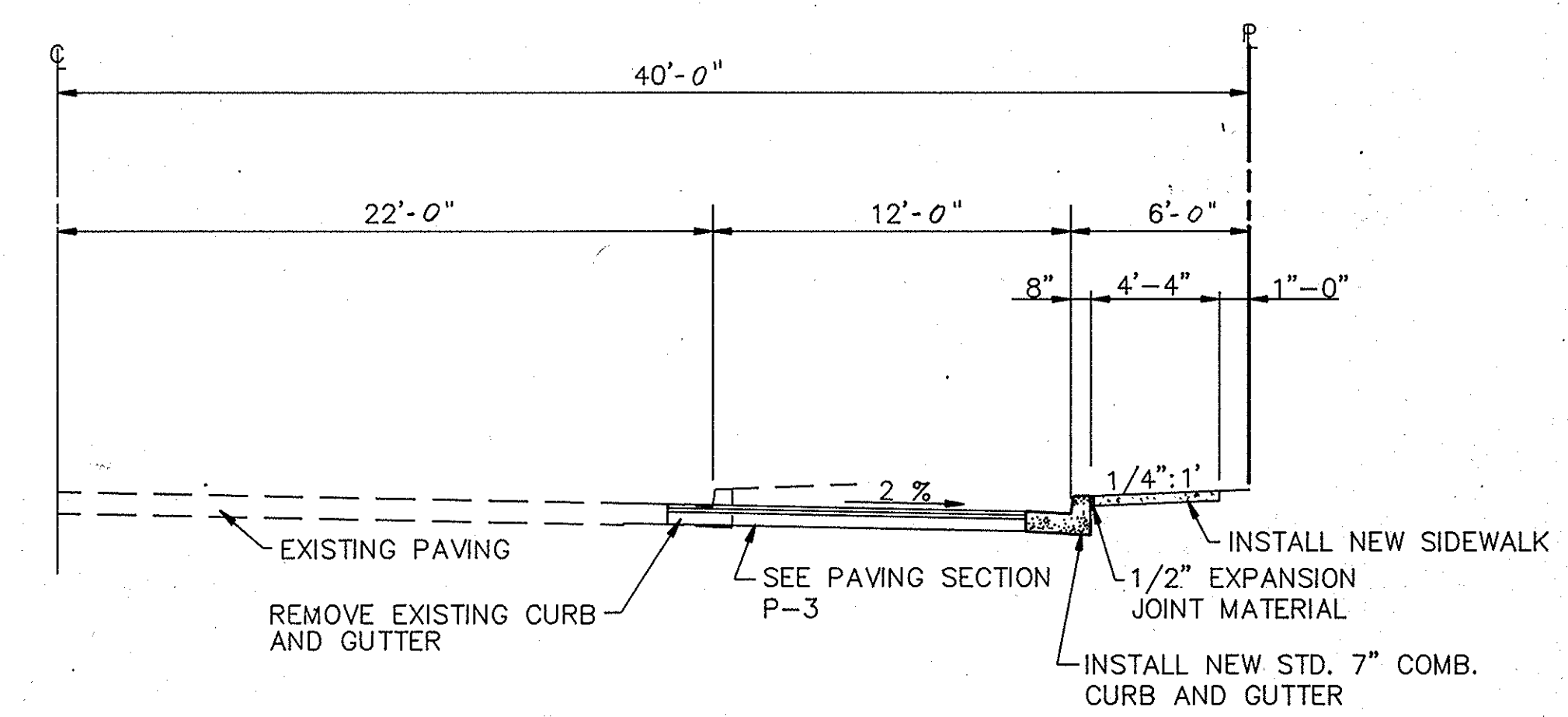


**SECTION A-A**  
SCALE: 1/4" = 1'-0"

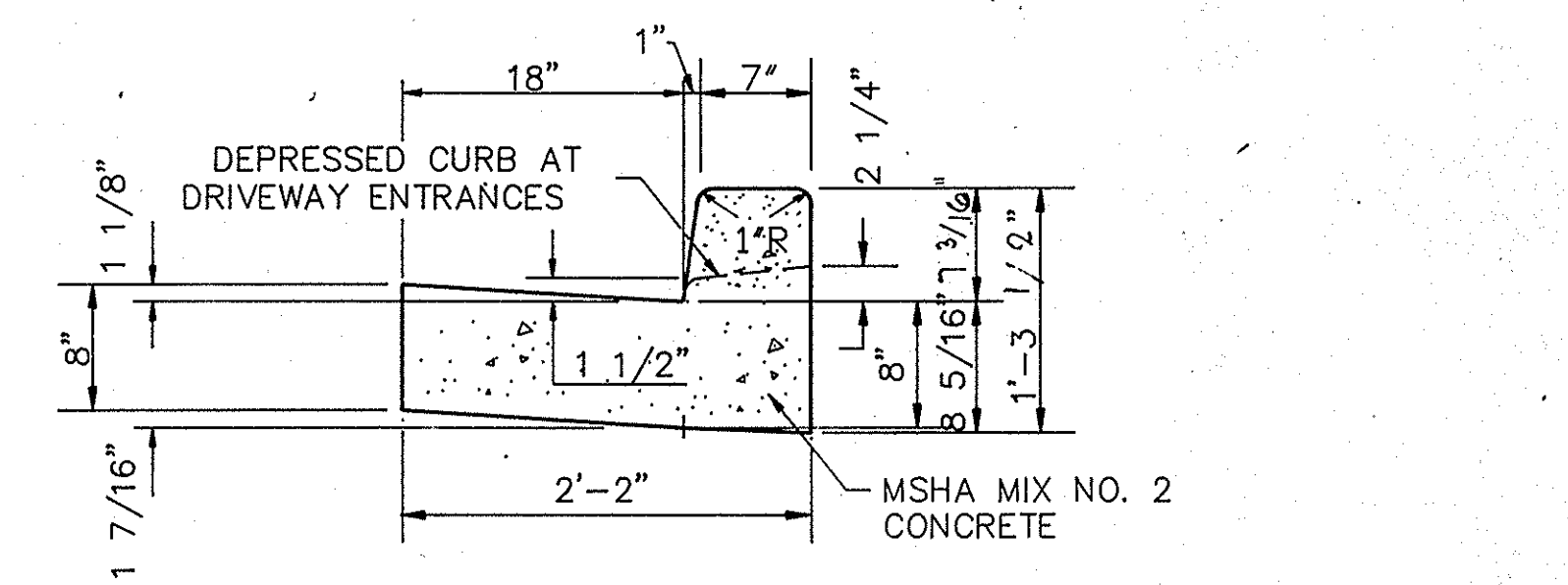
**DETAIL**  
**UNGROUTED RIP-RAP INLET**  
**AT STRUCTURE E-2**  
SCALE AS NOTED



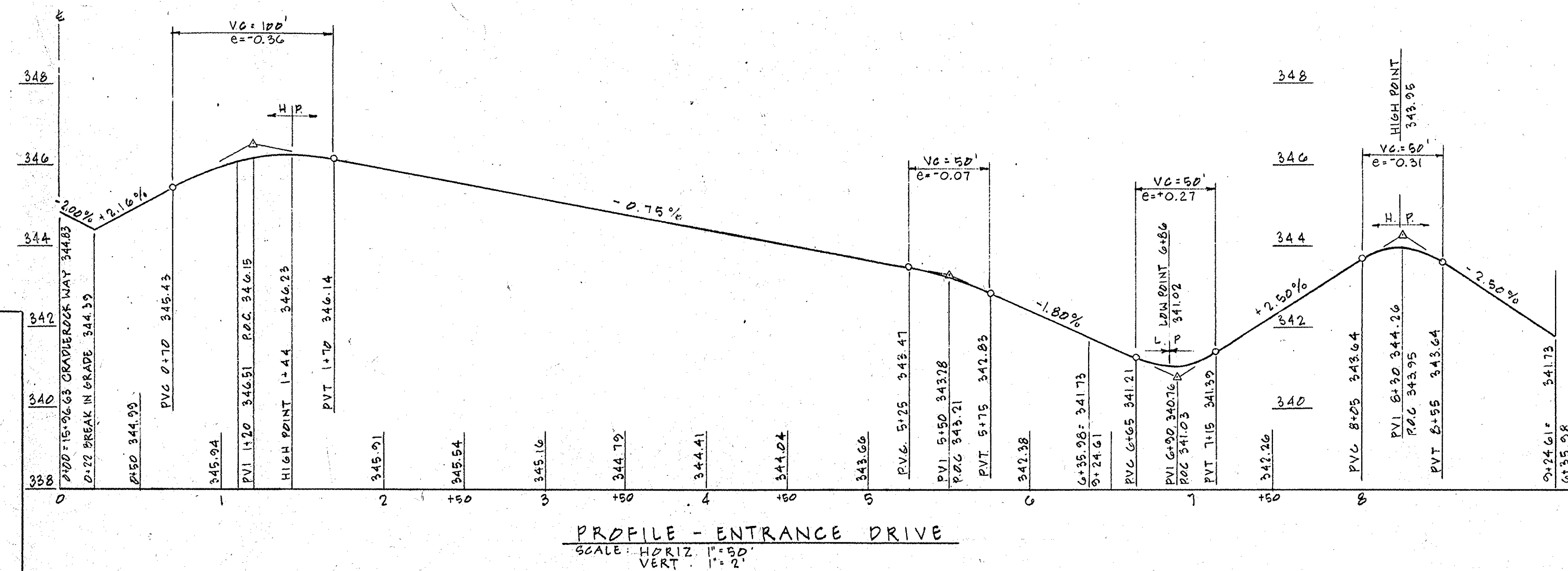
**TYPICAL**  
**ASPHALT PAVING**  
**CRADLEROCK WAY (P-3)**  
SCALE: 1" = 1'-0"



**TYPICAL SECTION - DECELERATION LANE**  
**CRADLEROCK WAY (MAJOR COLLECTOR)**  
SCALE: 1" = 5'-0"



**DETAIL -**  
**STANDARD 7\"/>**



**PROFILE - ENTRANCE DRIVE**  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 2'

**DETAILS**  
**EAST COLUMBIA LIBRARY**  
VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A-D  
ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0008  
DATE: OCTOBER 15, 1991 SCALE: AS SHOWN SHEET 5 OF 19

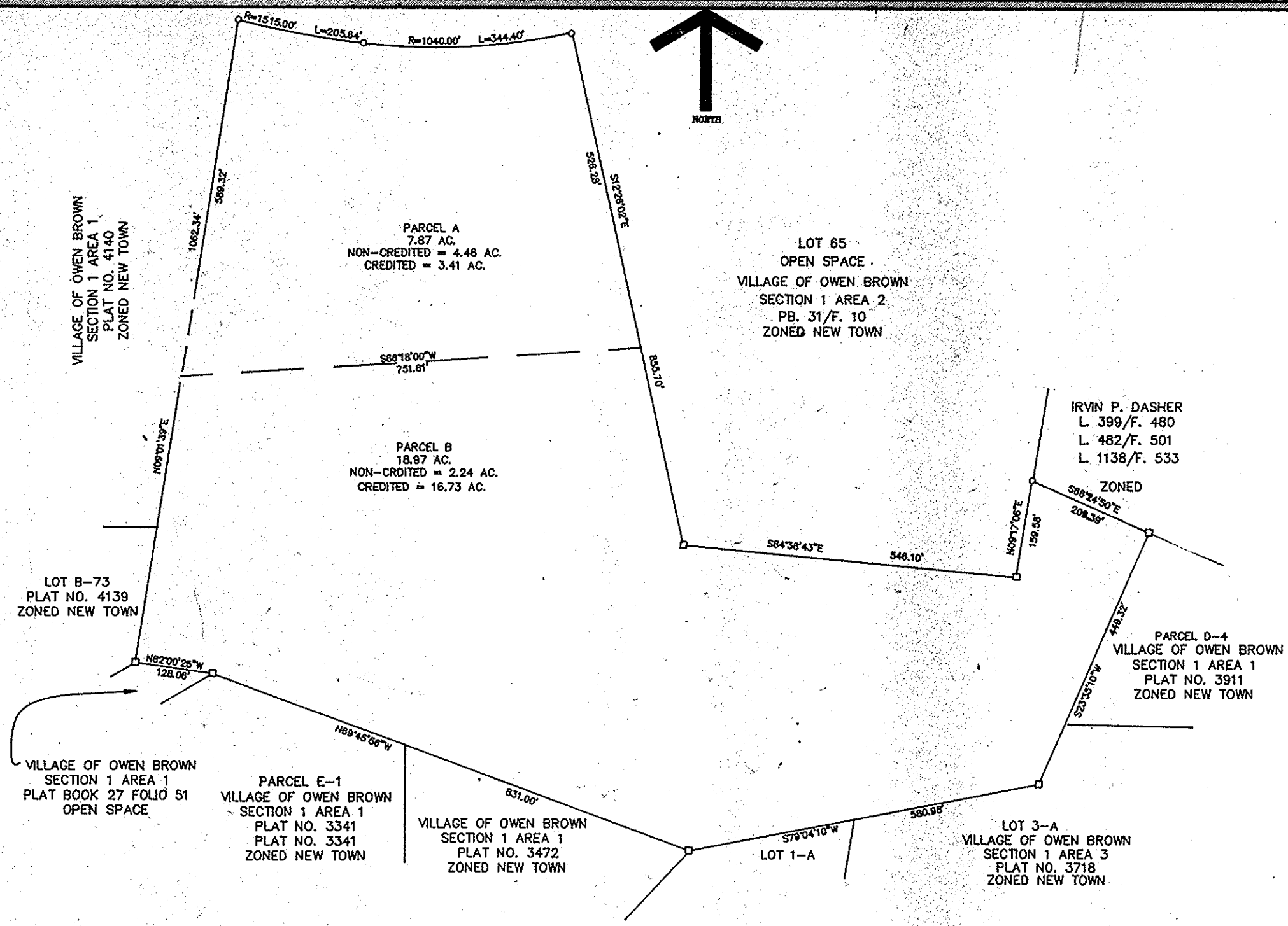
APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS	DATE
CHIEF, BUREAU OF BUILDINGS AND GROUNDS	
APPROVED: HOWARD COUNTY BUREAU OF UTILITIES	DATE
CHIEF, BUREAU OF UTILITIES	2-6-92
APPROVED: HOWARD COUNTY LIBRARY	DATE
DIRECTOR	2-6-92
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	DATE
COUNTY HEALTH OFFICER	2-10-92
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	DATE
PLANNING DIRECTOR	2/12/92
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT	DATE
	2/12/92
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE
DIRECTOR	2/12/92
CHIEF, BUREAU OF ENGINEERING	DATE
	2/12/92

**APPROVED**  
**PLANNING BOARD**  
**OF HOWARD COUNTY**  
DATE: 2-4-92  
AKS

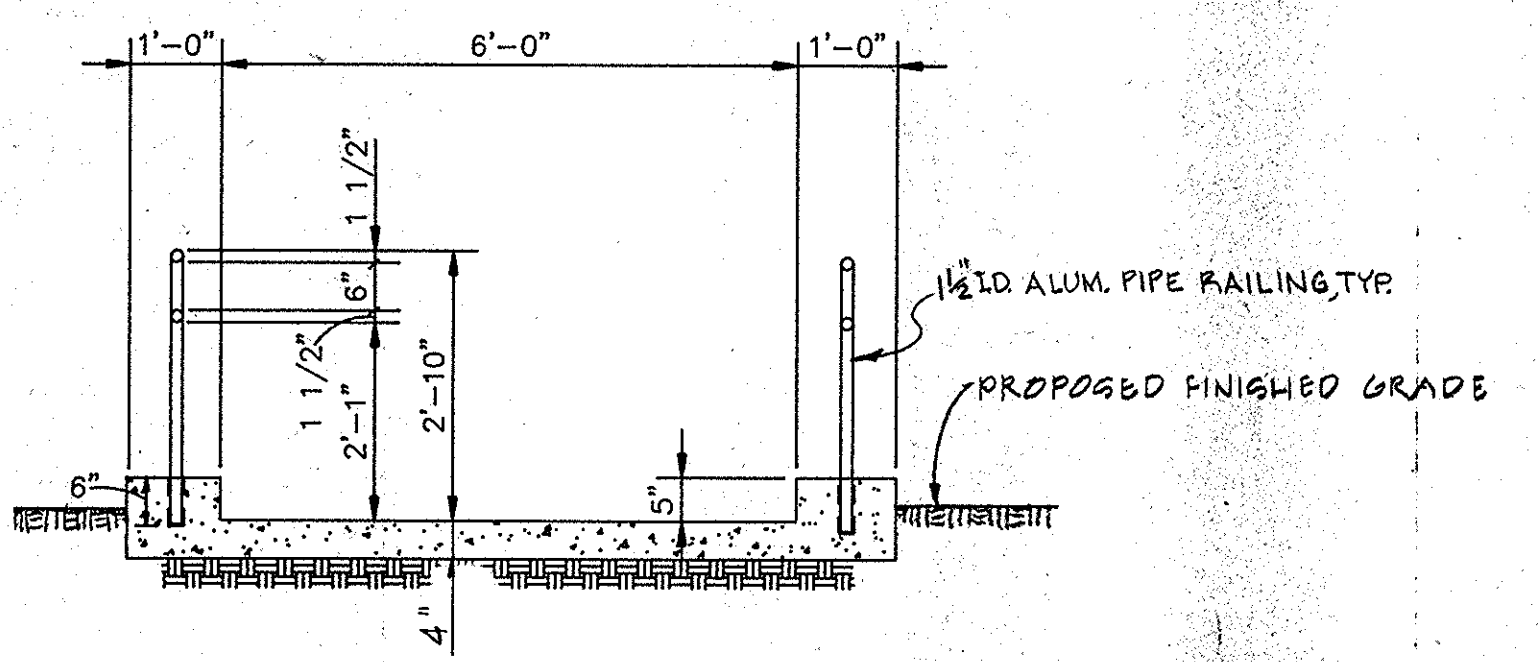
**G R I M M A N D P A R K E R**  
ARCHITECTS • PLANNERS • ENGINEERS  
4001 POWDER MILL ROAD • SUITE 401 • CALVERTON, MD 20705 • (301) 595-1000 • FAX (301) 595-0089

**DETAILS**  
**EAST COLUMBIA LIBRARY**  
HOWARD COUNTY MARYLAND

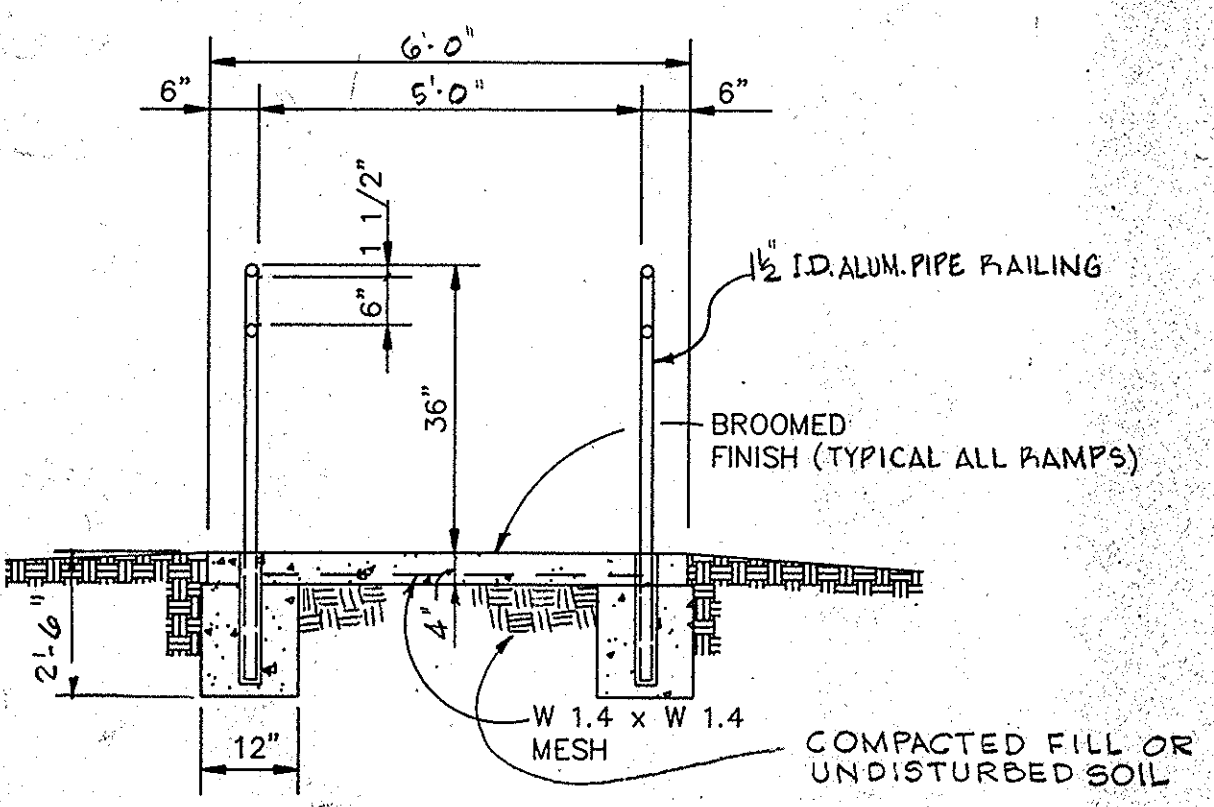
**C-5**



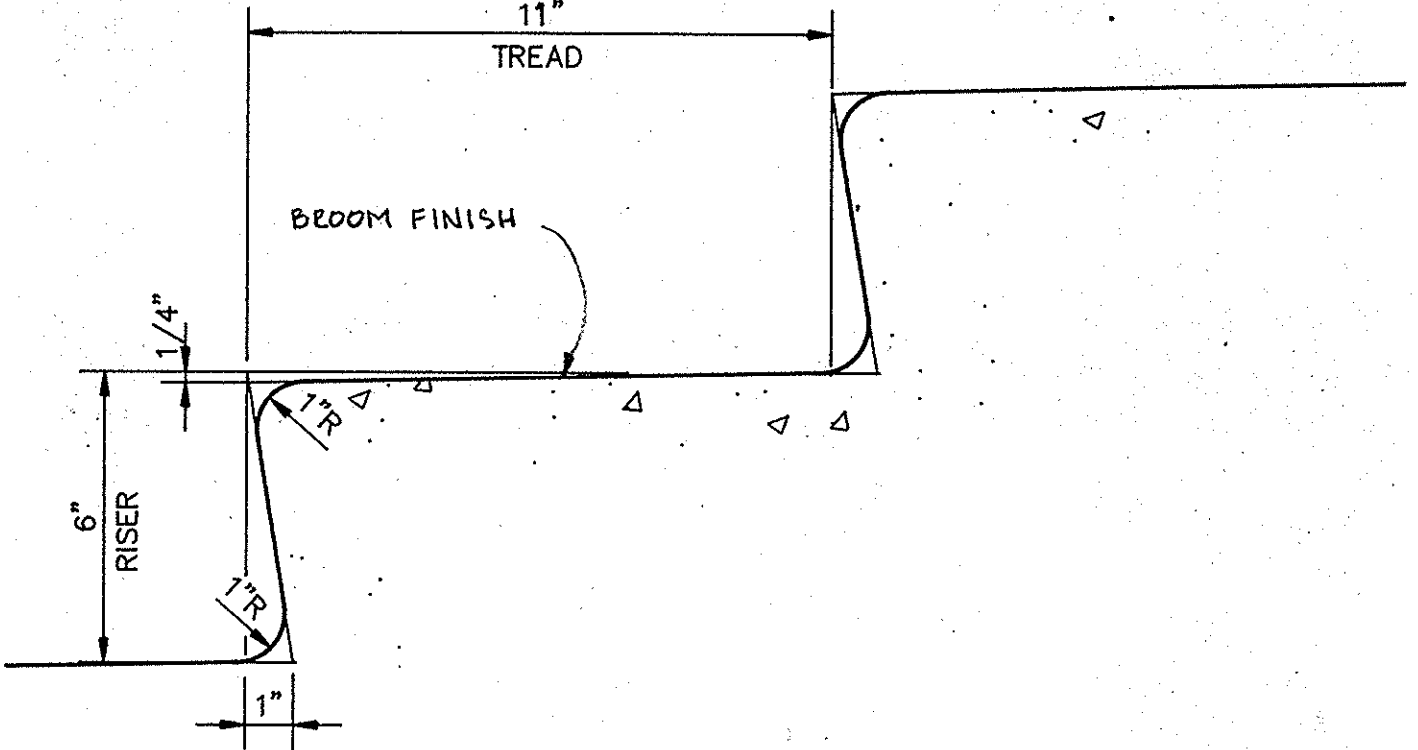
10 PLAT OF PROPERTY  
SCALE: 1" = 200'



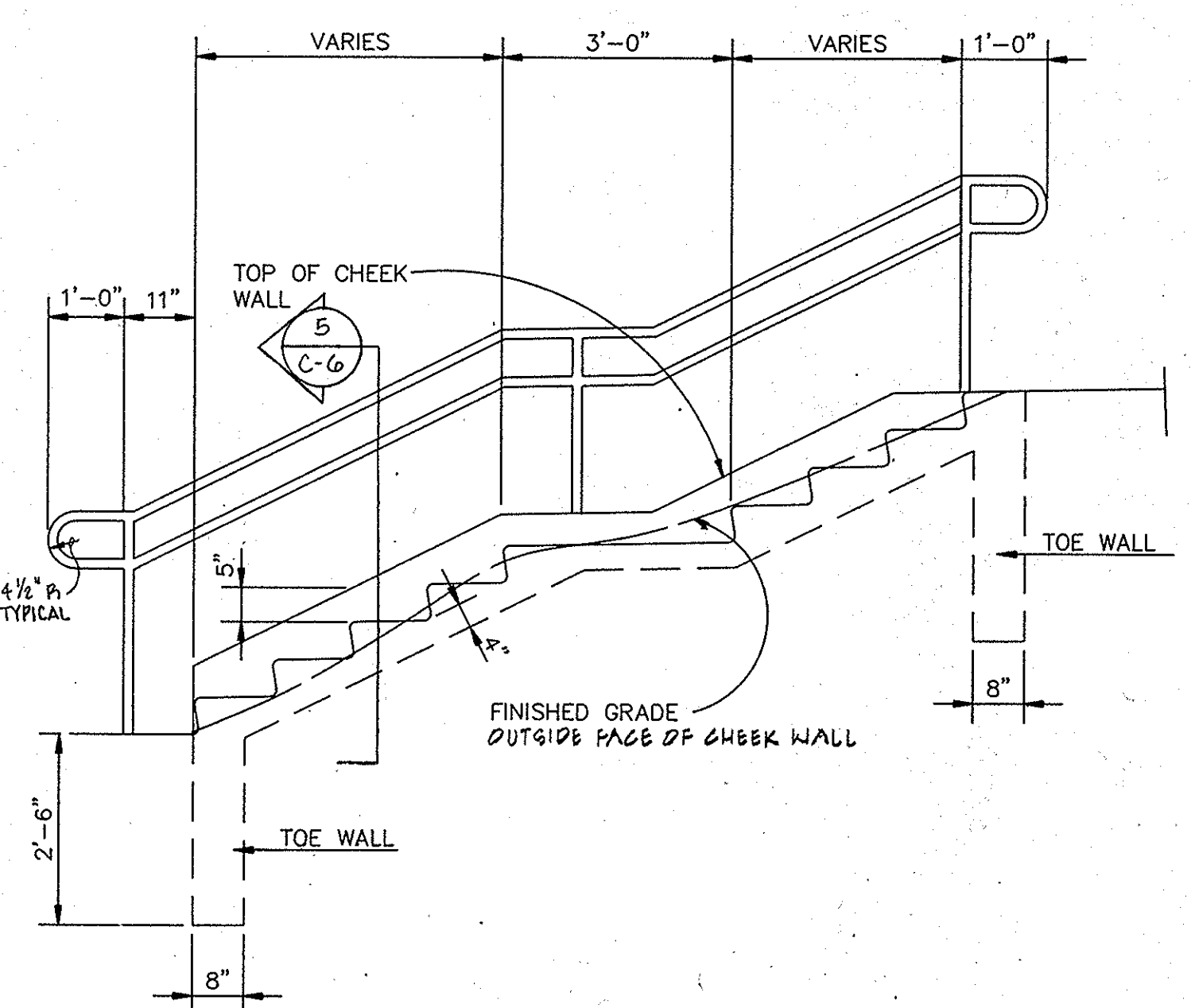
5 DETAIL - TYPICAL EXTERIOR STAIR SECTION  
SCALE: 1/2" = 1'-0"



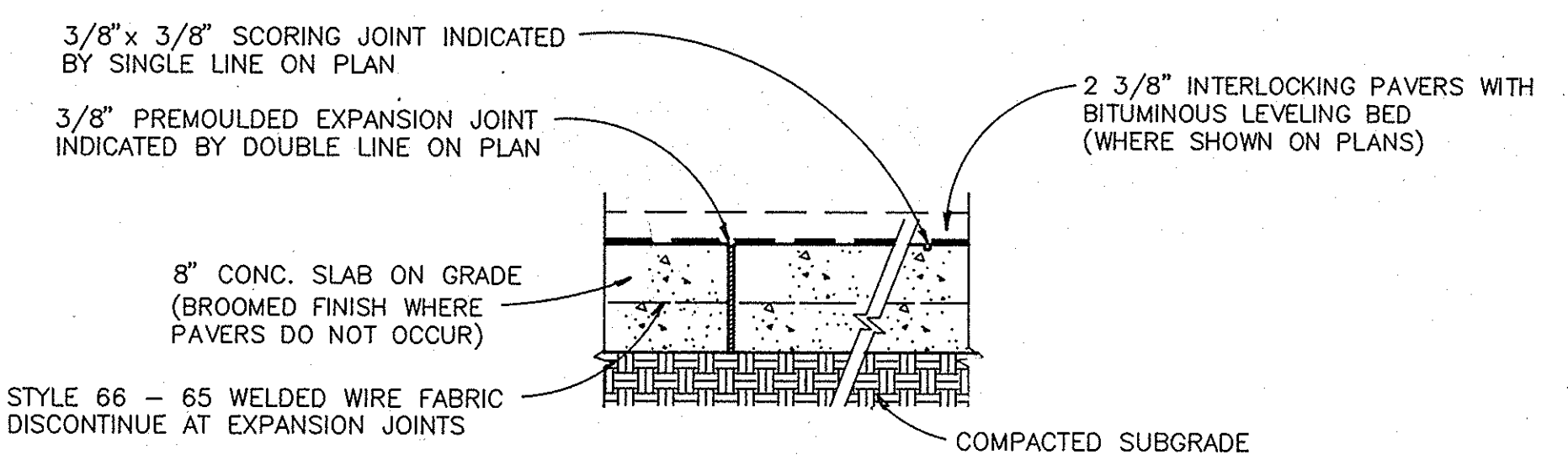
2 DETAIL - SECTION THRU RAMP  
NOT TO SCALE



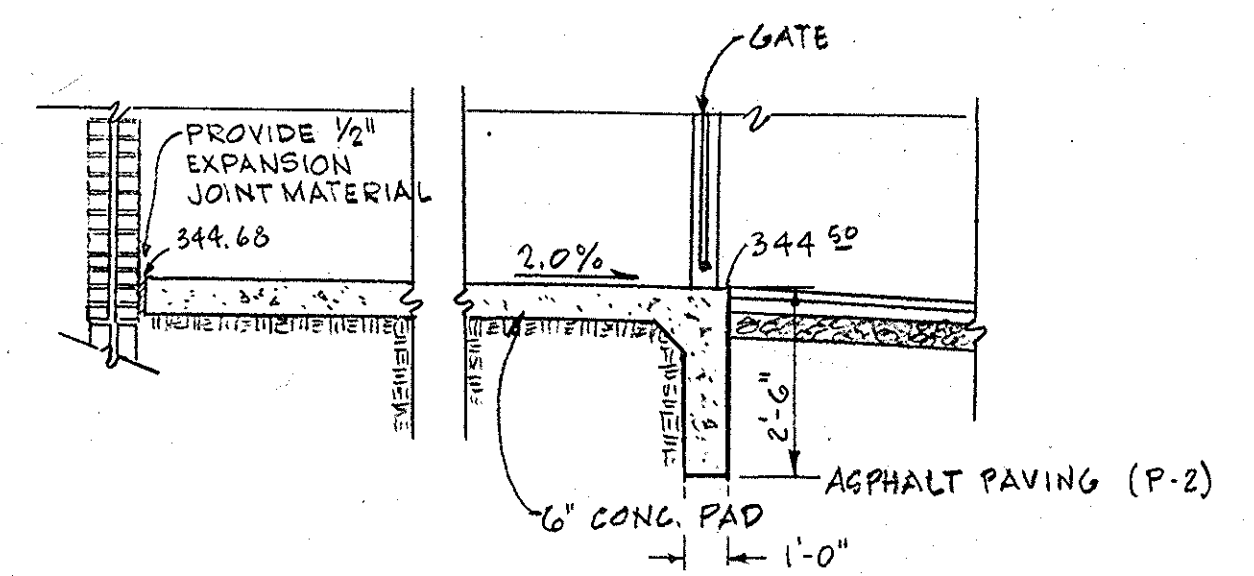
9 DETAIL - TYPICAL STEP  
SCALE: 3" = 1'-0"



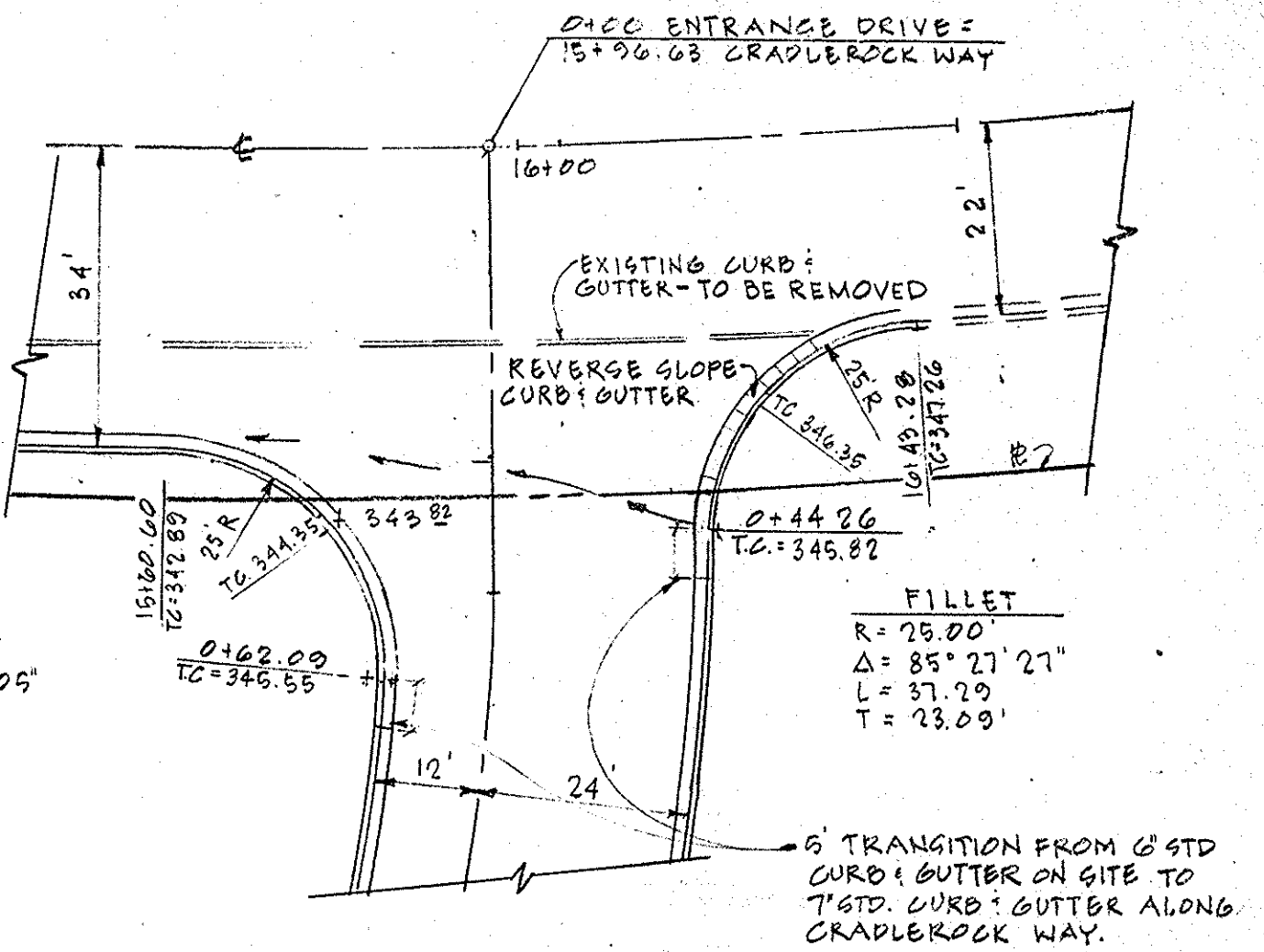
4 TYPICAL EXTERIOR STAIR  
SCALE: 1/2" = 1'-0"



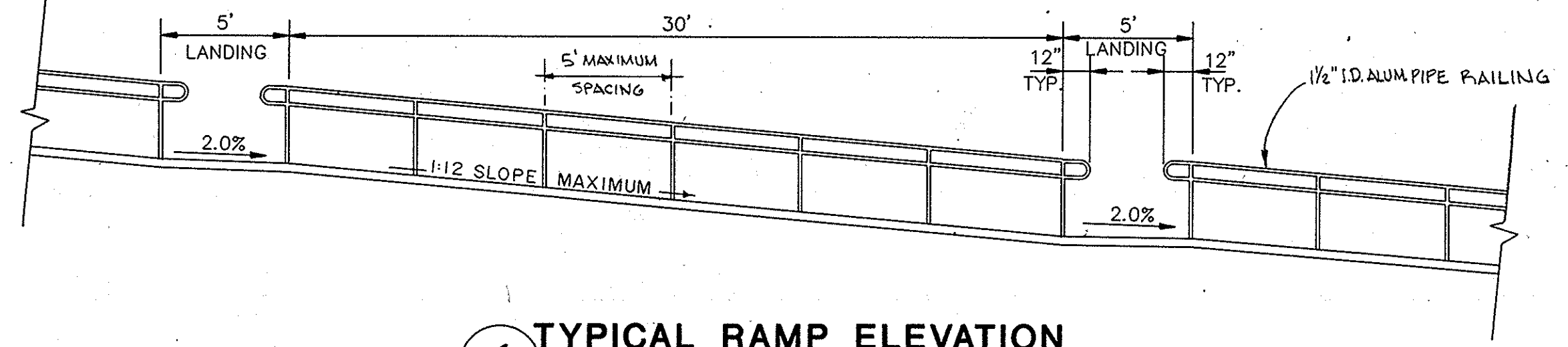
8 SECTION @ CONCRETE CROSS WALK  
SCALE: 1" = 1'-0"



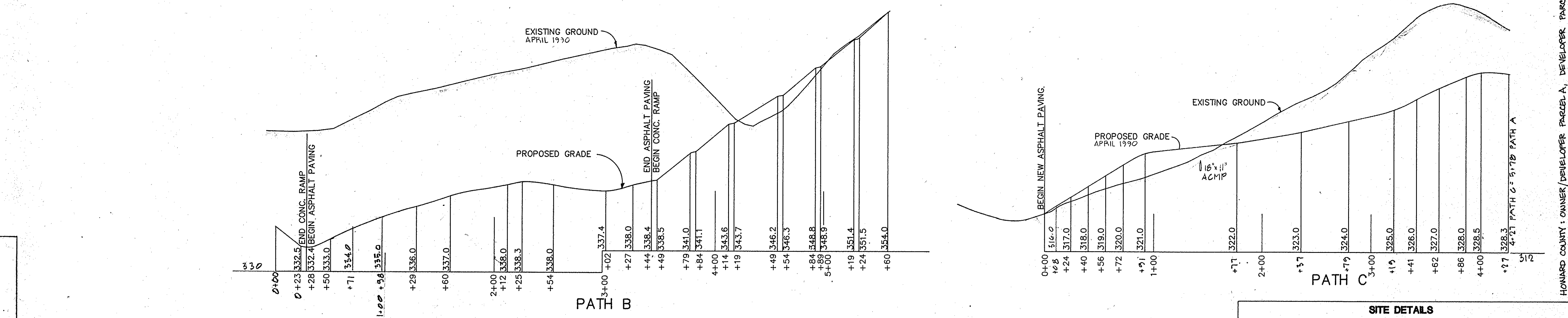
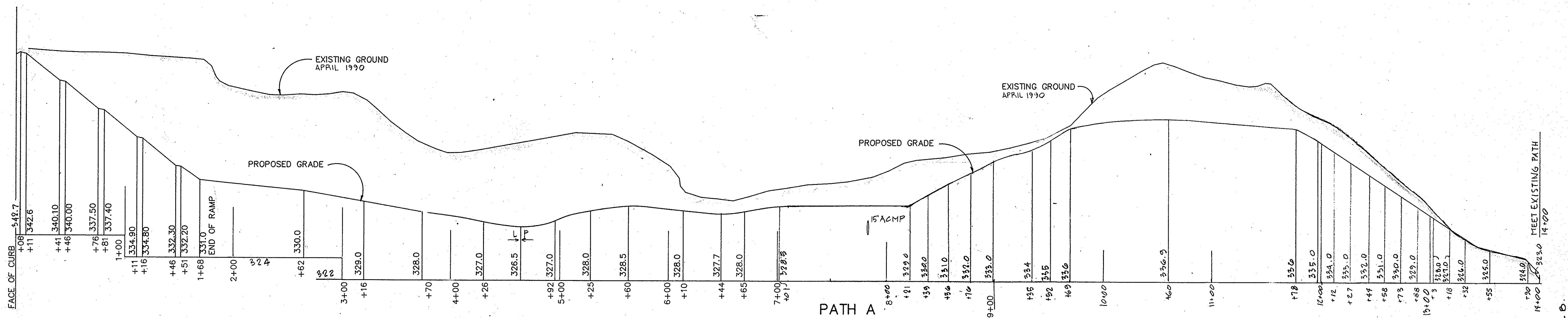
7 SECTION THROUGH DUMPSTER PAD  
NOT TO SCALE



6 ENTRANCE DETAIL  
SCALE: 1" = 20'



3 TYPICAL RAMP ELEVATION  
SCALE: 1" = 5'



1 PATH PROFILES  
SCALE: 1" = 50' HORIZ.  
1" = 5' VERT.

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
 CHIEF, BUREAU OF BUILDINGS AND GROUNDS DATE  
 APPROVED: HOWARD COUNTY BUREAU OF UTILITIES  
 CHIEF, BUREAU OF UTILITIES DATE 2-6-92  
 APPROVED: HOWARD COUNTY LIBRARY  
 DIRECTOR DATE 2-6-92  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER DATE 2-10-92  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 PLANNING DIRECTOR DATE 2/12/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE 2/12/92  
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE,  
 STORM DRAINAGE SYSTEMS AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR DATE 2/6/92  
 CHIEF, BUREAU OF ENGINEERING DATE 2/6/92

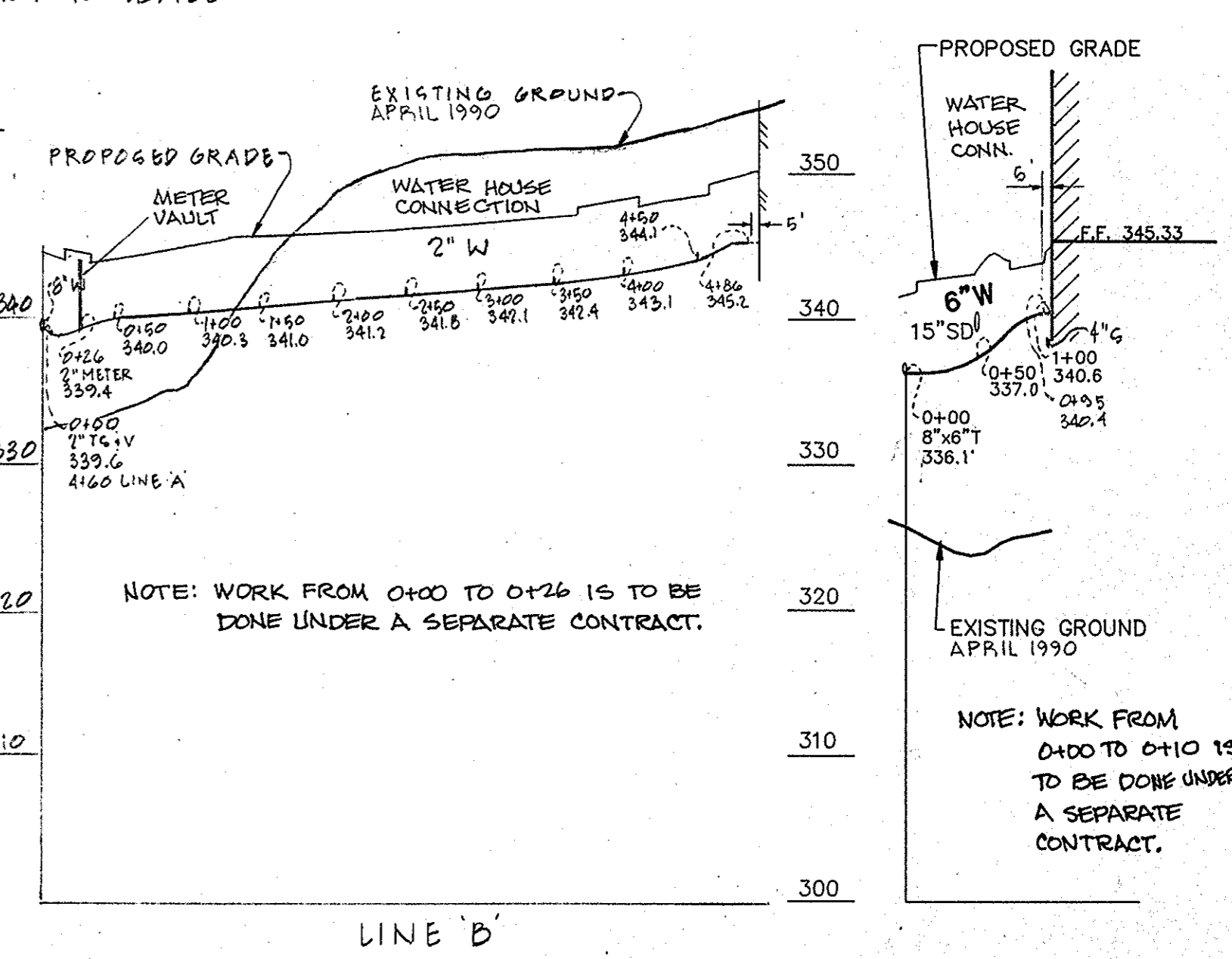
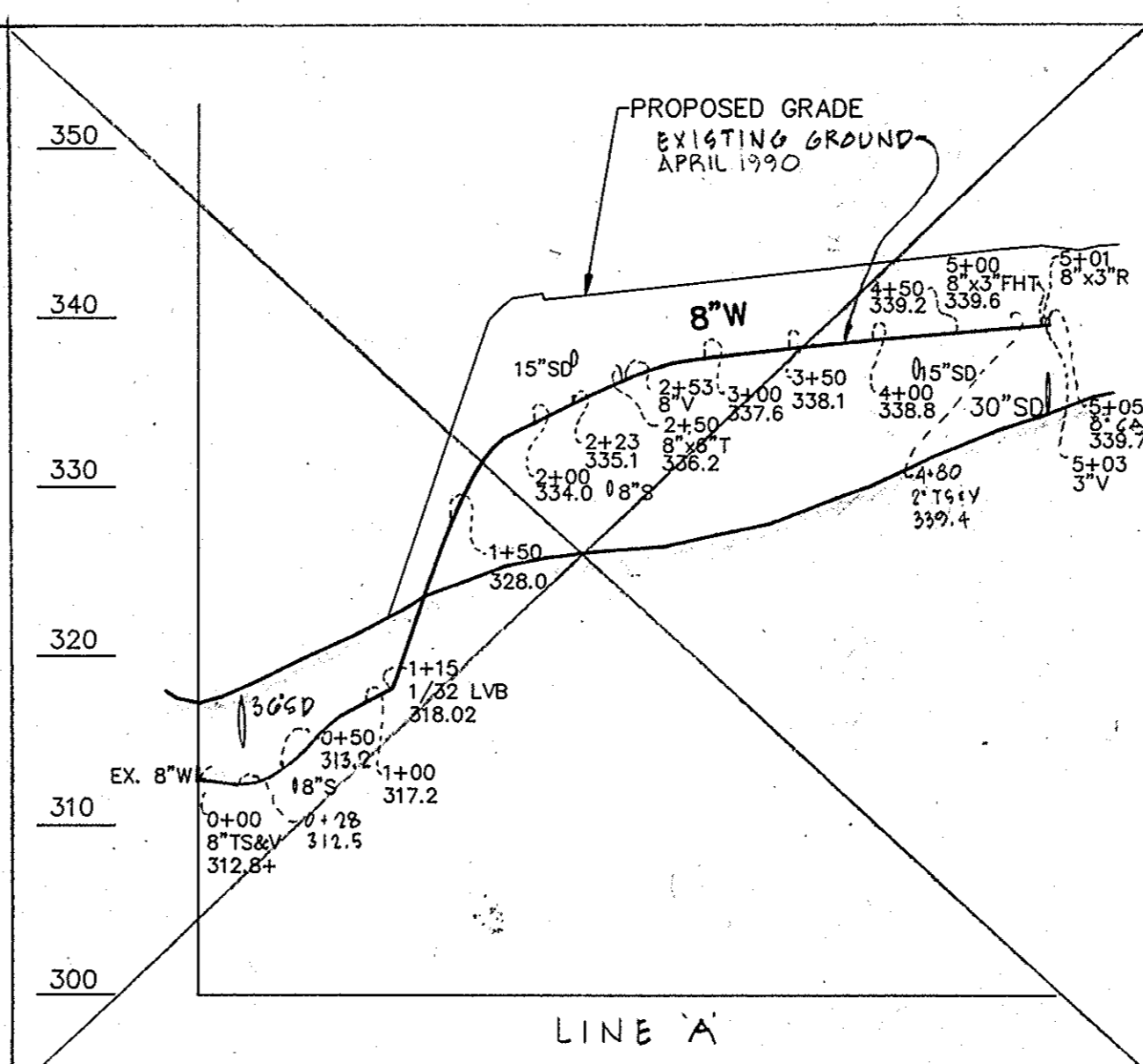
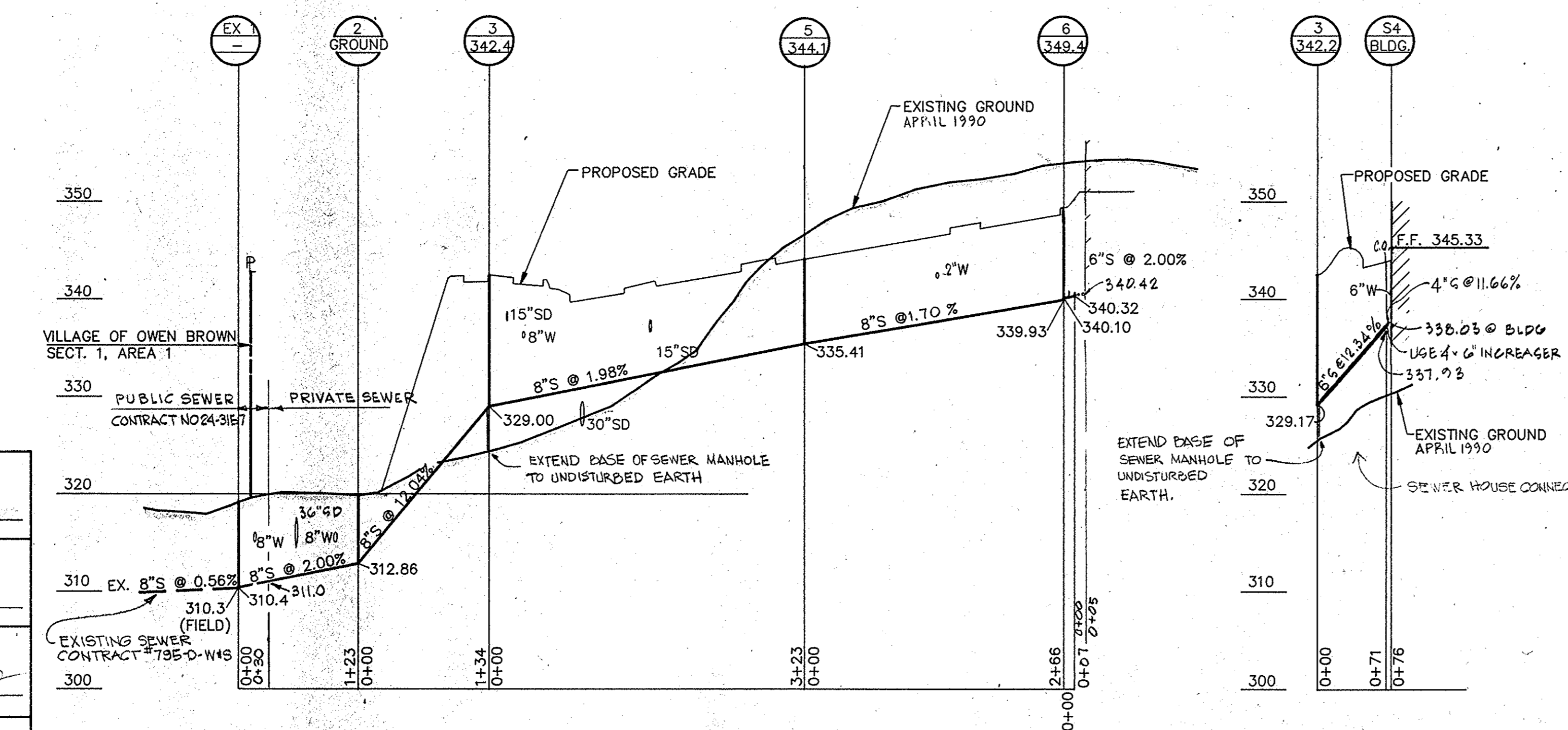
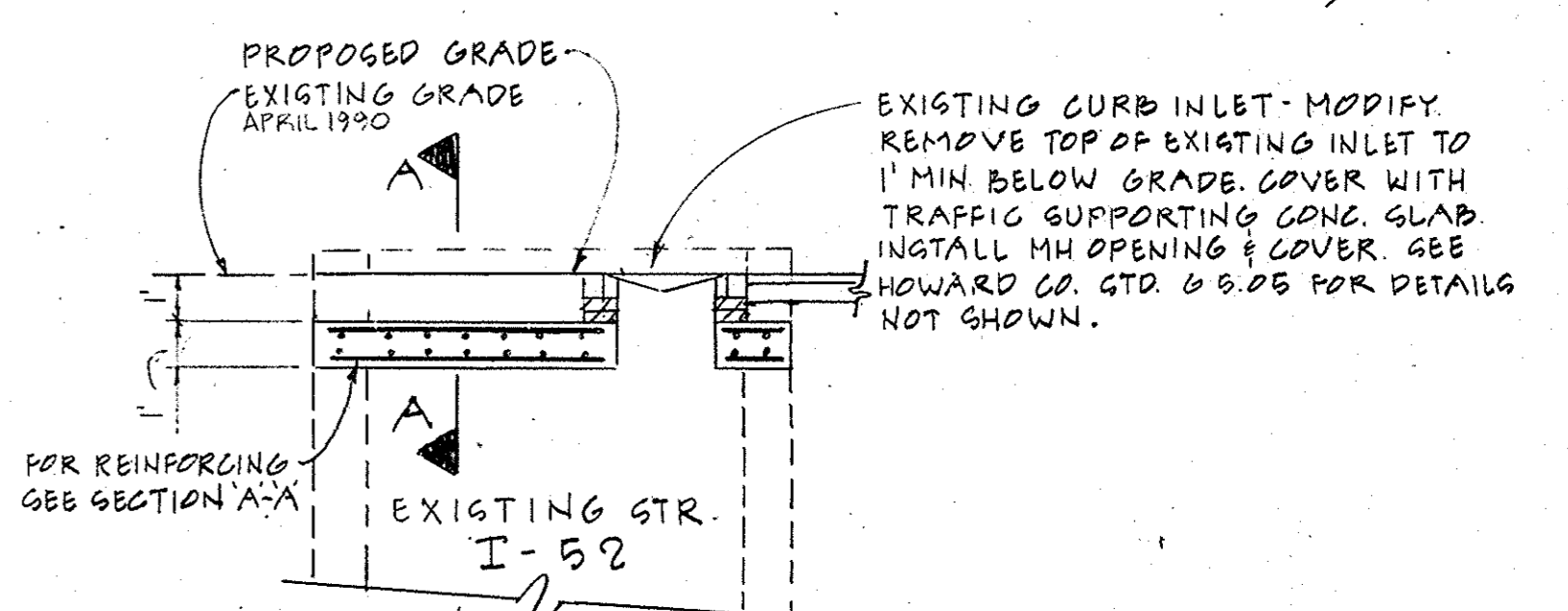
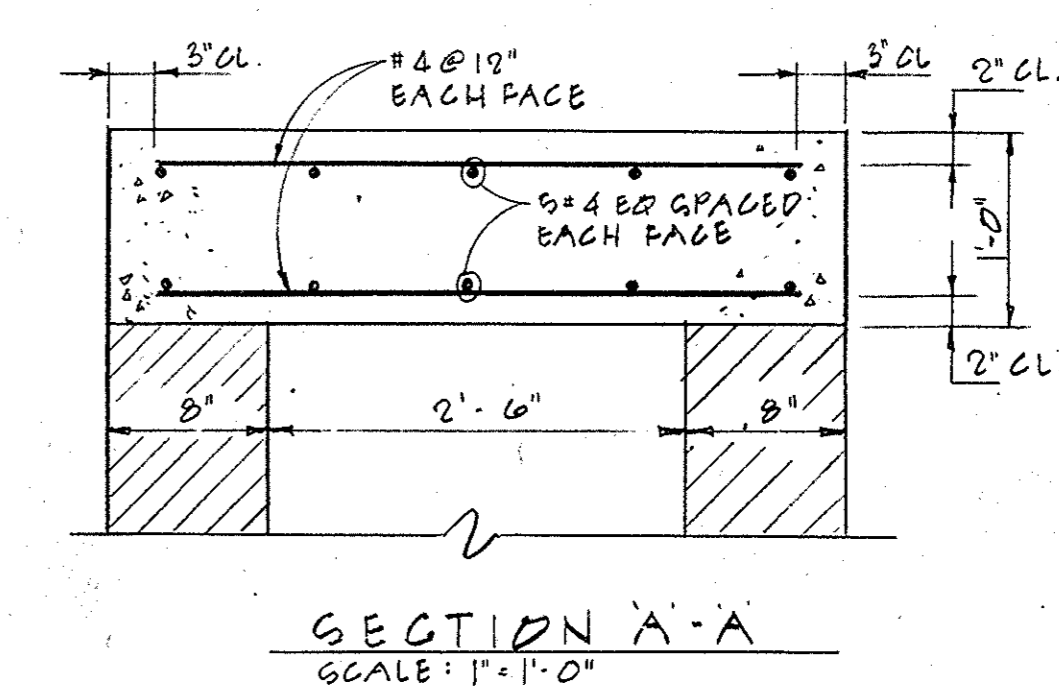
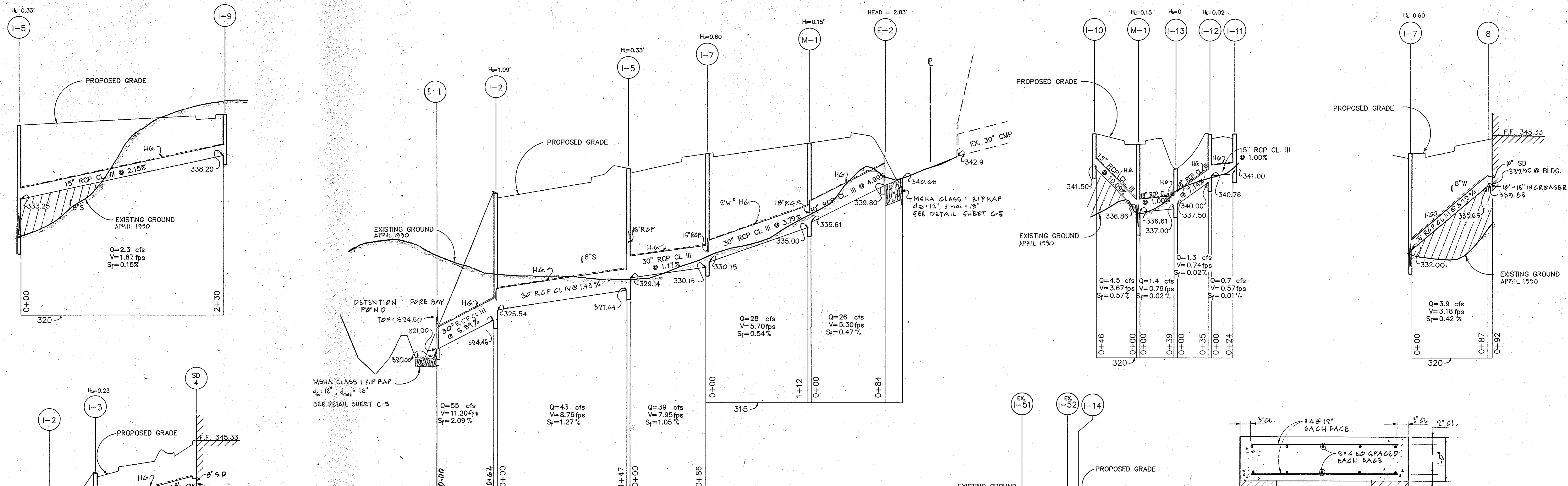
APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 2-4-92  
 HCS

SITE DETAILS  
 EAST COLUMBIA LIBRARY  
 VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A-D  
 ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
 OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
 CAPITAL PROJECT L-0028  
 DATE: OCTOBER 15, 1991 SCALE: AS SHOWN SHEET 6 OF 19

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 4001 POWER MILL ROAD • SUITE 401 • CAVERTON, MD 20705 • (301) 595-0000 • FAX (301) 595-0089

SITE DETAILS  
 EAST COLUMBIA LIBRARY  
 HOWARD COUNTY, MARYLAND

HOWARD COUNTY: OWNER/DEVELOPER PARCELS A, DEVELOPER PARCEL D



**WATER PROFILES**  
 SCALE: HORIZ: 1" = 100'  
 VERT: 1" = 10'

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
 CHIEF, BUREAU OF BUILDINGS AND GROUNDS  
 DATE: 2-6-92

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES  
 CHIEF, BUREAU OF UTILITIES  
 DATE: 2-6-92

APPROVED: HOWARD COUNTY LIBRARY  
 DIRECTOR  
 DATE: 2-6-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER  
 DATE: 2-10-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 PLANNING DIRECTOR  
 DATE: 2/12/92

APPROVED: CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT  
 DATE: 2/12/92

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 2/6/92

APPROVED: CHIEF, BUREAU OF ENGINEERING  
 DATE: 2/6/92

APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 2-4-92  
 AKS

**STORM DRAIN, WATER AND SEWER PROFILES**  
**EAST COLUMBIA LIBRARY**  
 VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A1-B  
 ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND  
 OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
 CAPITAL PROJECT I-000-B  
 DATE: OCTOBER 15, 1991 SCALE: AS SHOWN SHEET 7 OF 19

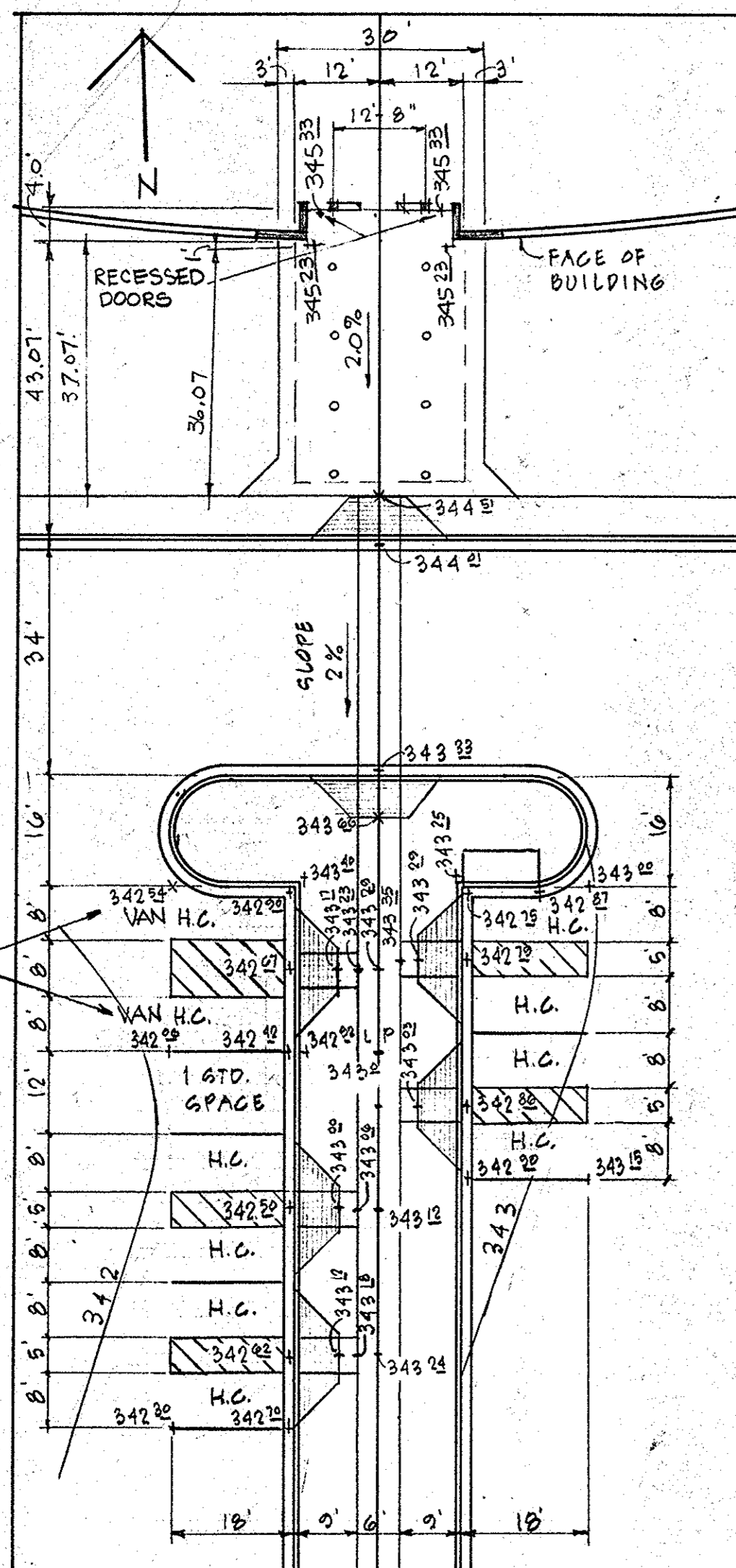
G R I M M A N D P A R K E R  
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STORM DRAIN, WATER AND SEWER PROFILES  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY MARYLAND

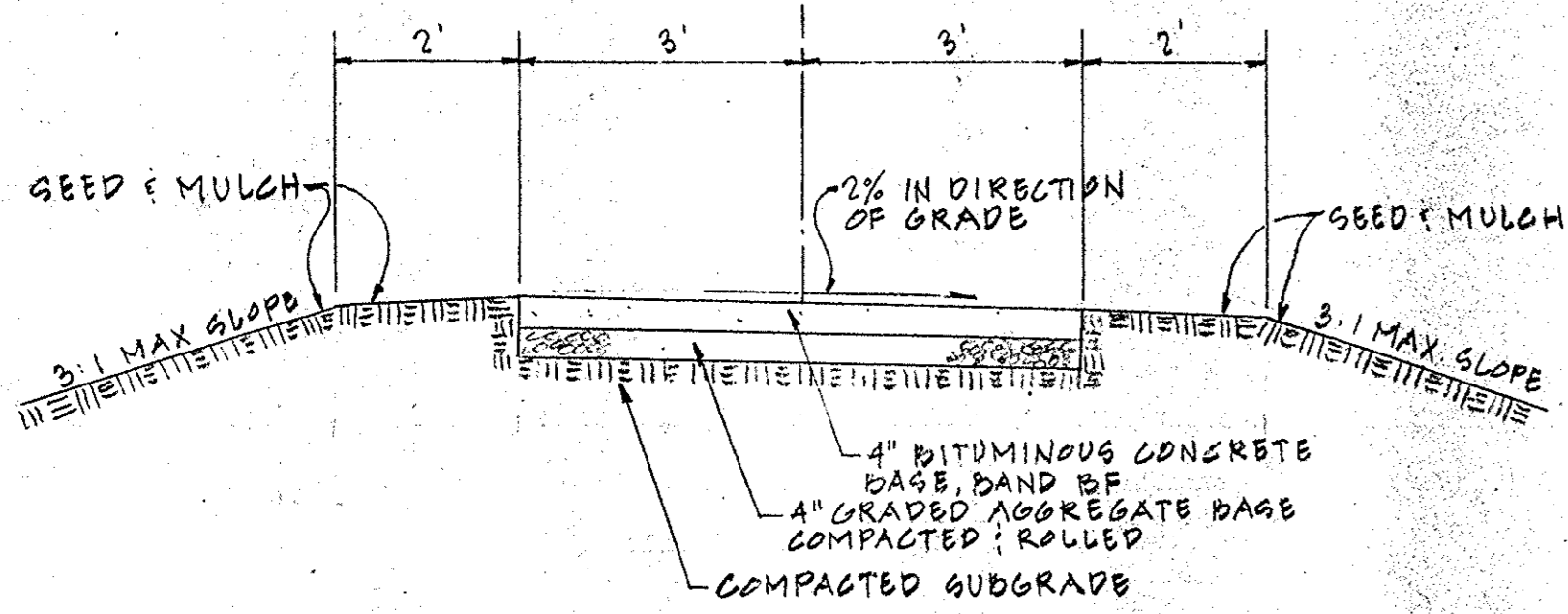
HOWARD COUNTY: OWNER/DEVELOPER, PARCEL A, DEVELOPER, PARCEL B

SHEET 7 OF 19

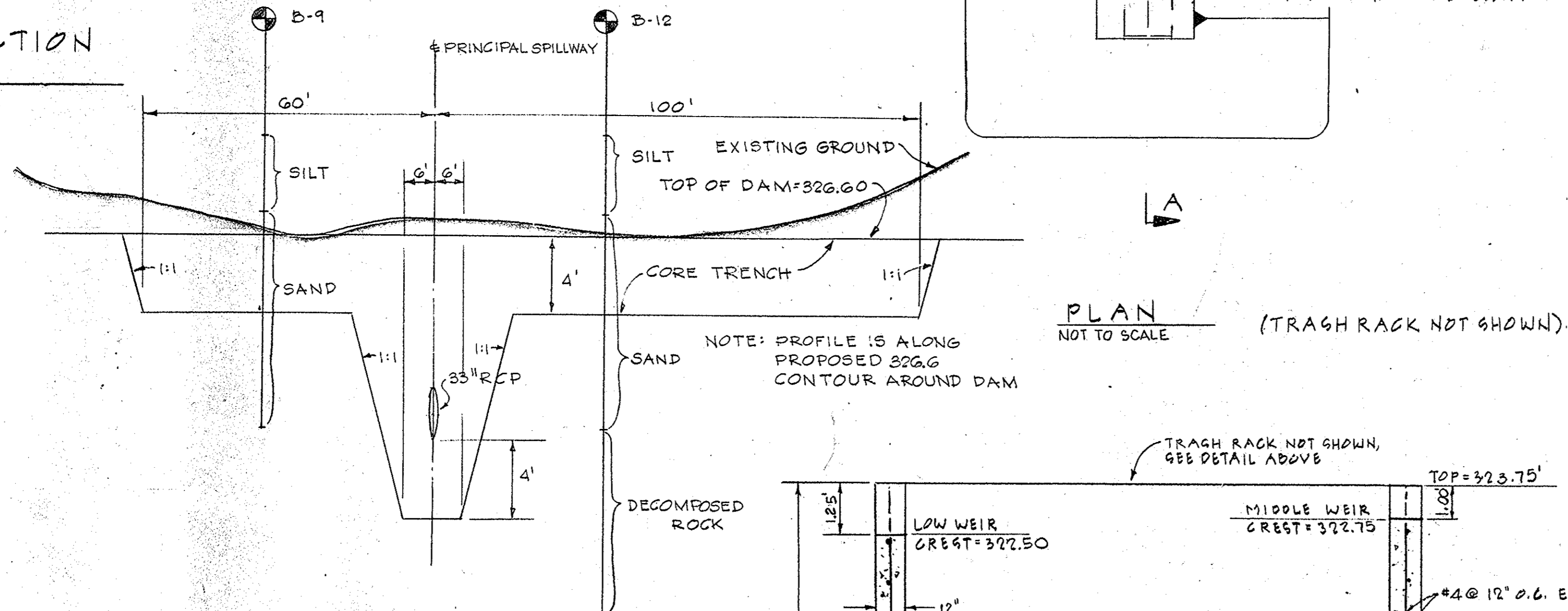




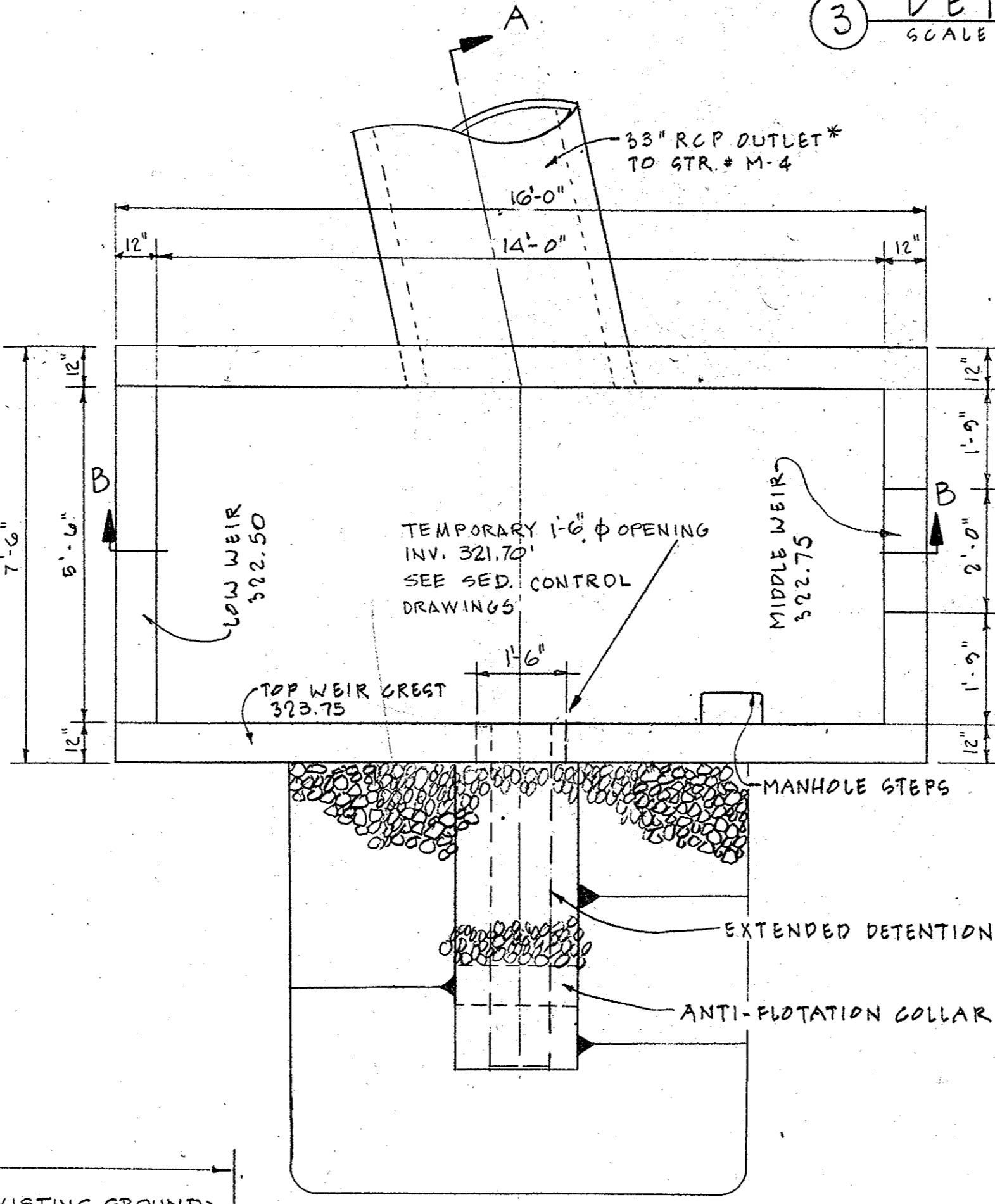
DETAIL OF HANDICAPPED ACCESS ROUTE  
SCALE: 1" = 20'  
SEE SHEET L-4



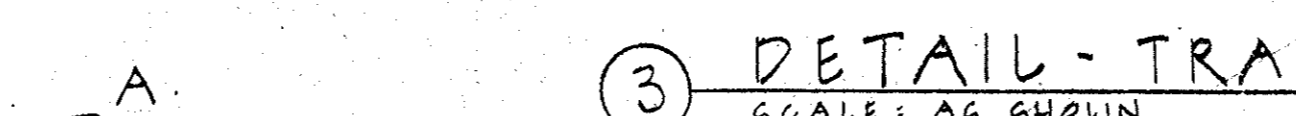
TYPICAL SECTION ASPHALT PATHS  
SCALE: 1/2" = 1'-0"



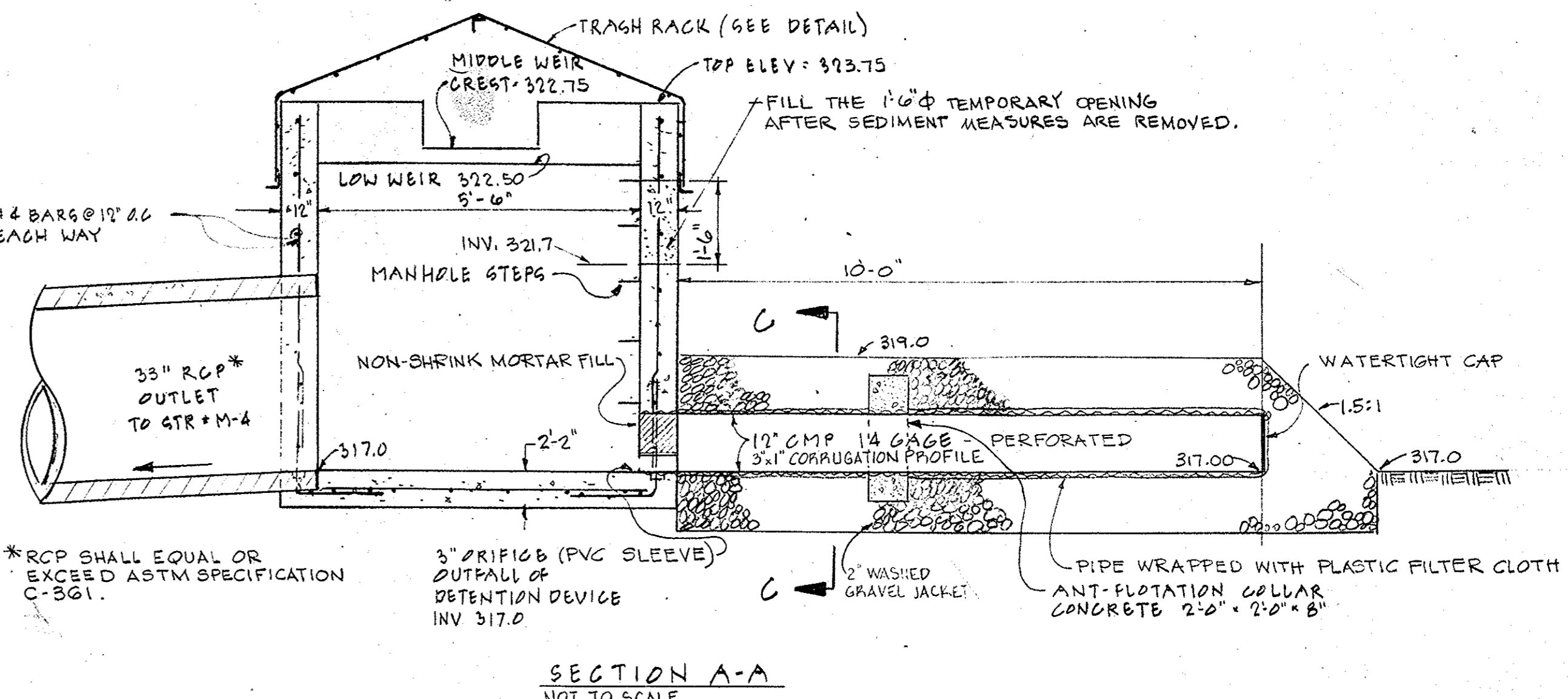
PROFILE ALONG E DAM  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



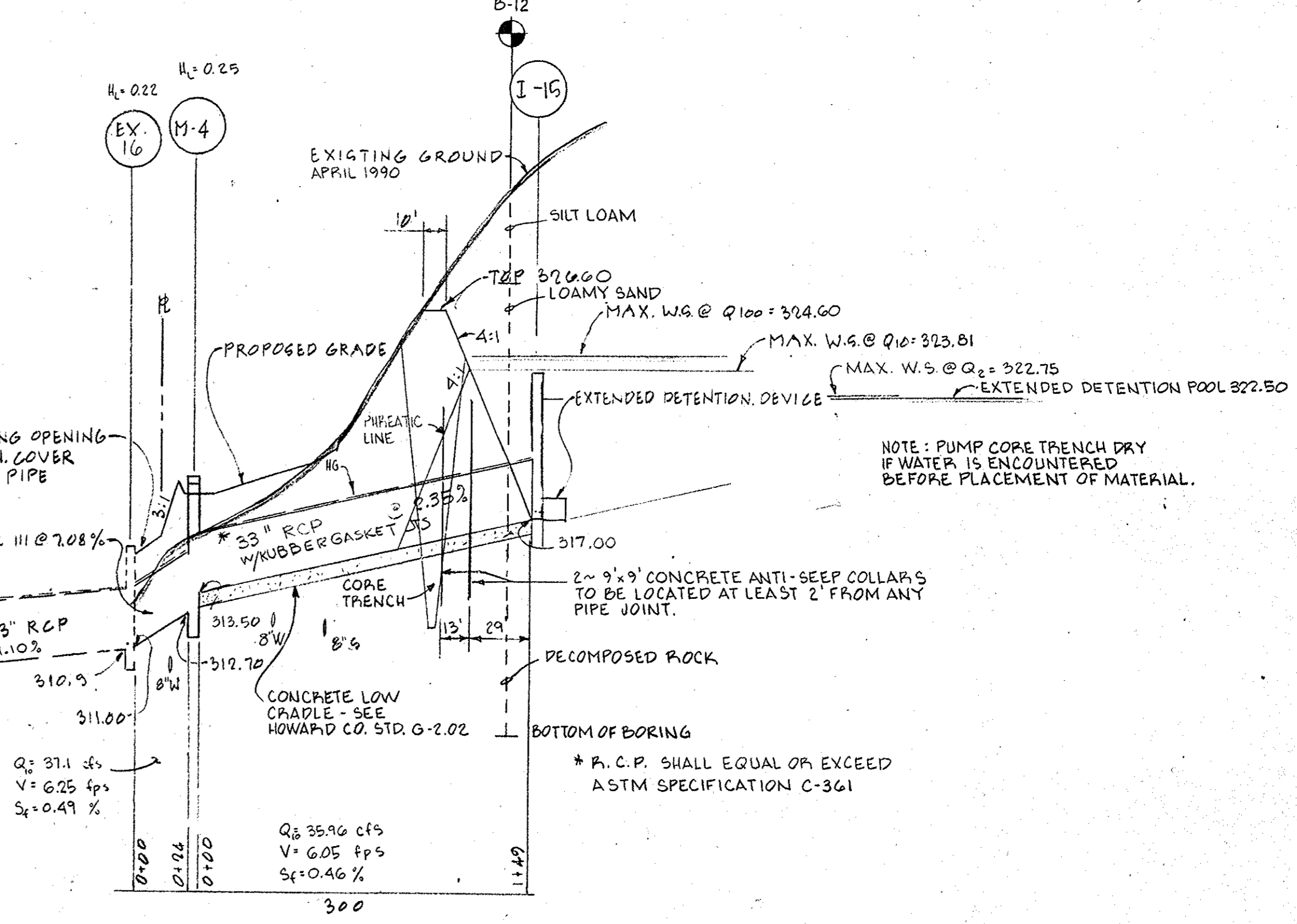
DETAIL-ACCESS DOOR  
SCALE: 1" = 1'-0"



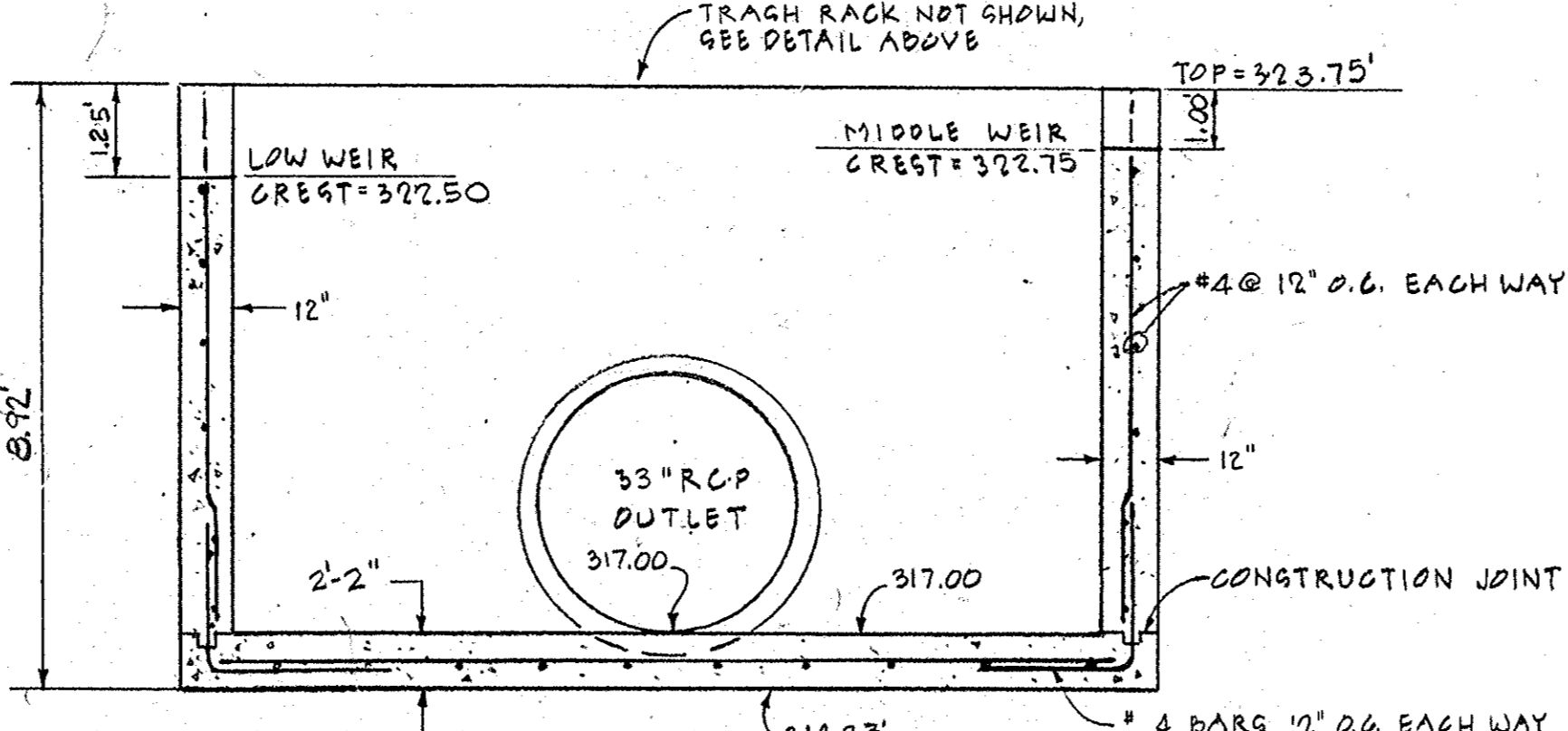
DETAIL-TRASH RACK  
SCALE: AS SHOWN



SECTION A-A  
NOT TO SCALE



STORM DRAIN PROFILE  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'



DETAIL-STRUCTURE I-15  
SCALE: AS SHOWN

NOTE: ALL RISER REINFORCING WILL BE GALVANIZED OR EPOXY COATED.

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS	
CHIEF, BUREAU OF BUILDINGS AND GROUNDS	DATE
APPROVED: HOWARD COUNTY BUREAU OF UTILITIES	
CHIEF, BUREAU OF UTILITIES	DATE: 2-6-92
APPROVED: HOWARD COUNTY LIBRARY	
DIRECTOR	DATE: 2-6-92
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	
COUNTY HEALTH OFFICER	DATE: 2-16-92
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
PLANNING DIRECTOR	DATE: 2/12/92
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE: 2/12/92
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
DIRECTOR	DATE: 2/6/92
CHIEF, BUREAU OF ENGINEERING	DATE: 2/6/92

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 2-4-92  
[Signature]

STORMWATER MANAGEMENT DETAILS  
**EAST COLUMBIA LIBRARY**  
VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A+B  
ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0205  
DATE: OCTOBER 15, 1991 SCALE: AS SHOWN SHEET 8 OF 19

**G R I M M A N D P A R K E R**  
ARCHITECTS • PLANNERS • ENGINEERS  
4061 POWDER MILL ROAD • SUITE 401 • CAUTION, MD 20705 • (301) 595-1000 • FAX (301) 595-0089

**SITE DETAILS**  
**EAST COLUMBIA LIBRARY**  
HOWARD COUNTY, MARYLAND

**C - 8**

SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed, and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish, and other objectionable material unless otherwise designated on the plans. Trees, brush, and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the Owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Earth Fill

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment and cut of trench shall conform to United Soil Classification GC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch this (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into the embankment.

Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet no be so wet that water can be squeezed out.

Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content within + 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

Cut Off Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe.

Pipe Conduits

All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for corrugated metal pipe:

1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings or an approved equal may be used: Nexon, Plast-Cote, Black-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be between 4 and 9.

2. Coupling bands, anti-seep collars, end sections, etc., must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

3. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dipole bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled an adequate number of corrugations to accommodate the band width. The following type connections are acceptable for pipes less than 48" in diameter: flanges on both ends of the pipe, a 12" wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket; and a 12" wide huggie type band with O-ring gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipes 48" in diameter and larger shall be connected by a 24" long annular corrugated band using rods and lugs. A 12" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24".

Helically corrugated pipe shall have either continuously welded seams or have lock seams.

4. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

5. Backfilling shall conform to "Structure Backfill."

6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe.

1. Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-361. An approved equivalent is AWWA Specification C-302.

2. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.

4. Backfilling shall conform to "Structure Backfill."

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Polyvinyl Chloride (PVC) Pipe - All of the following criteria shall apply for polyvinyl chloride (PVC) pipe:

1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241.

2. Joints and connections to anti-seep collars shall be completely watertight.

3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. Backfilling shall conform to "Structure Backfill."

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 608, Mix No. 3

Rock Riprap

All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering. The rock fragments shall be angular to subrounded in shape. The least dimension of an individual rock fragment shall be not less than one-third the greatest dimension of the fragment.

The rock shall have the following properties:

1. Bulk specific gravity (saturated surface-dry basis) not less than 2.5.

2. Absorption not more than three percent.

3. Soundness: Weight loss in five cycles not more than 20 percent when sodium sulfate is used.

Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 88.

The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 919.12.

Care of Water during Construction

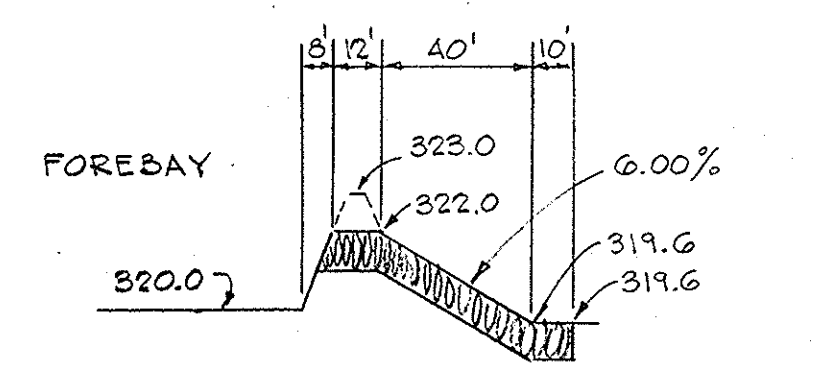
All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The Contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.

Stabilization

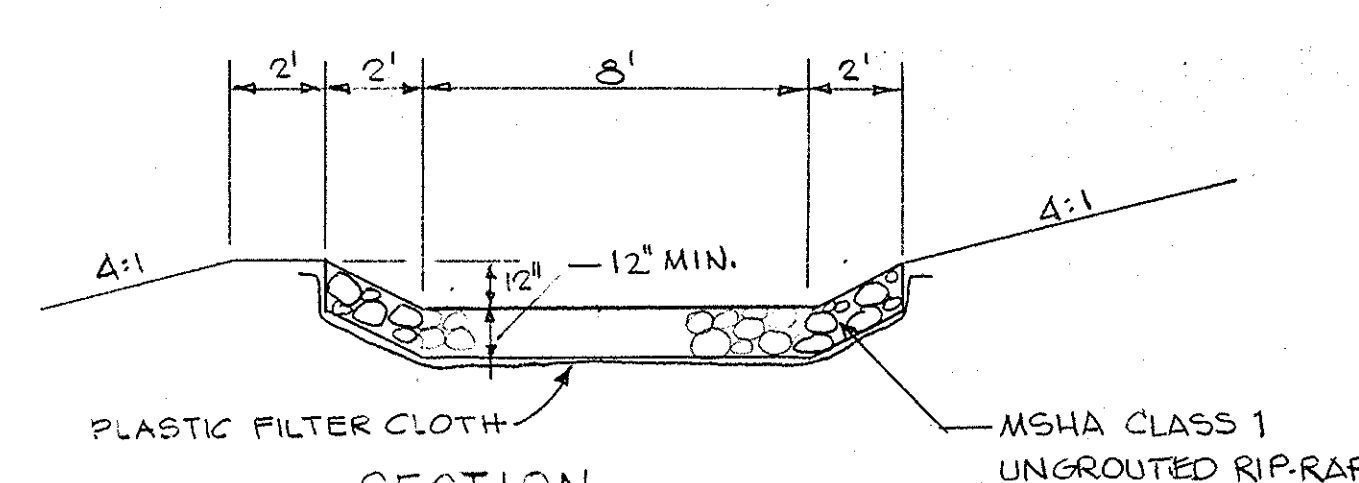
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

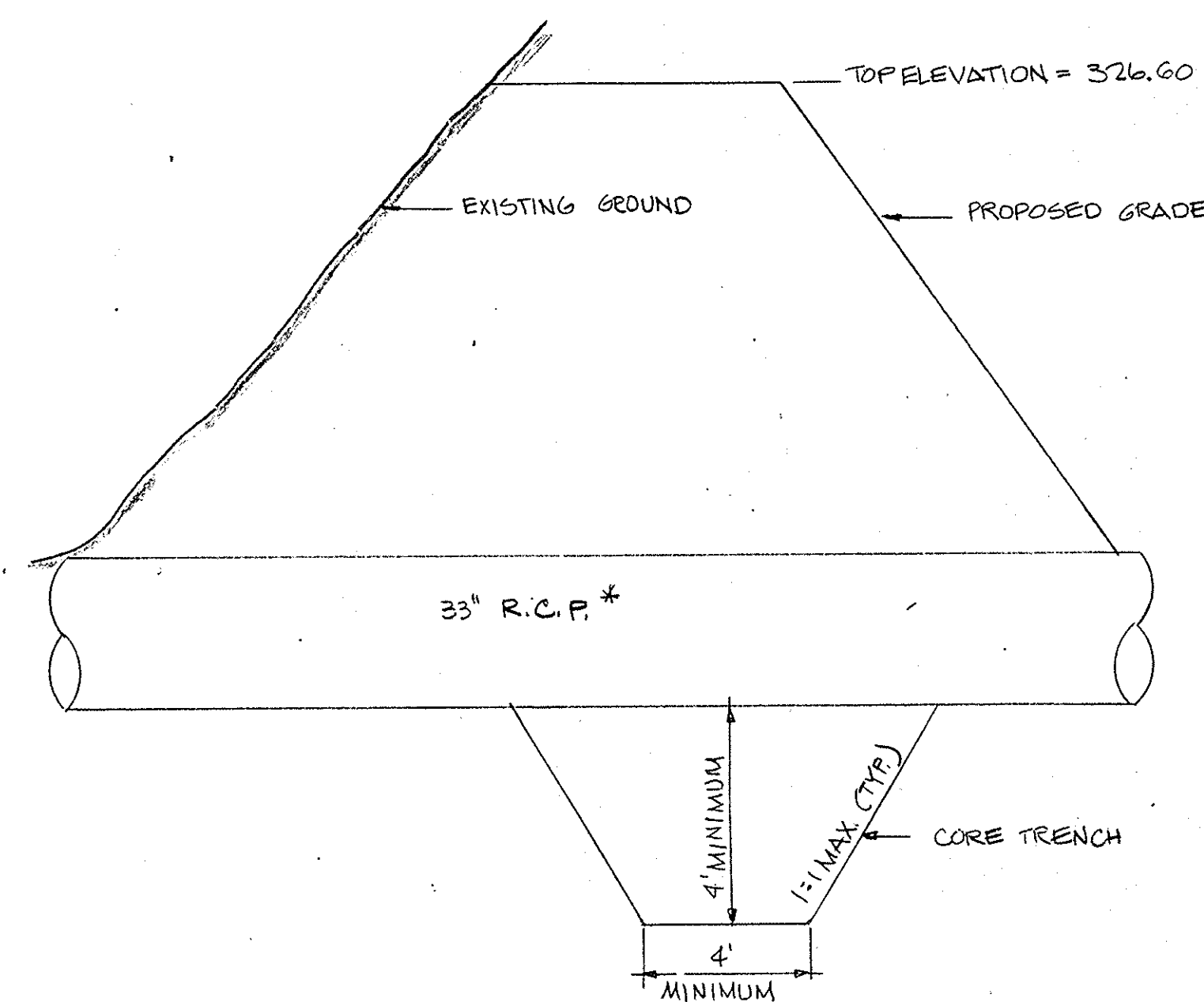


PROFILE  
SCALES: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

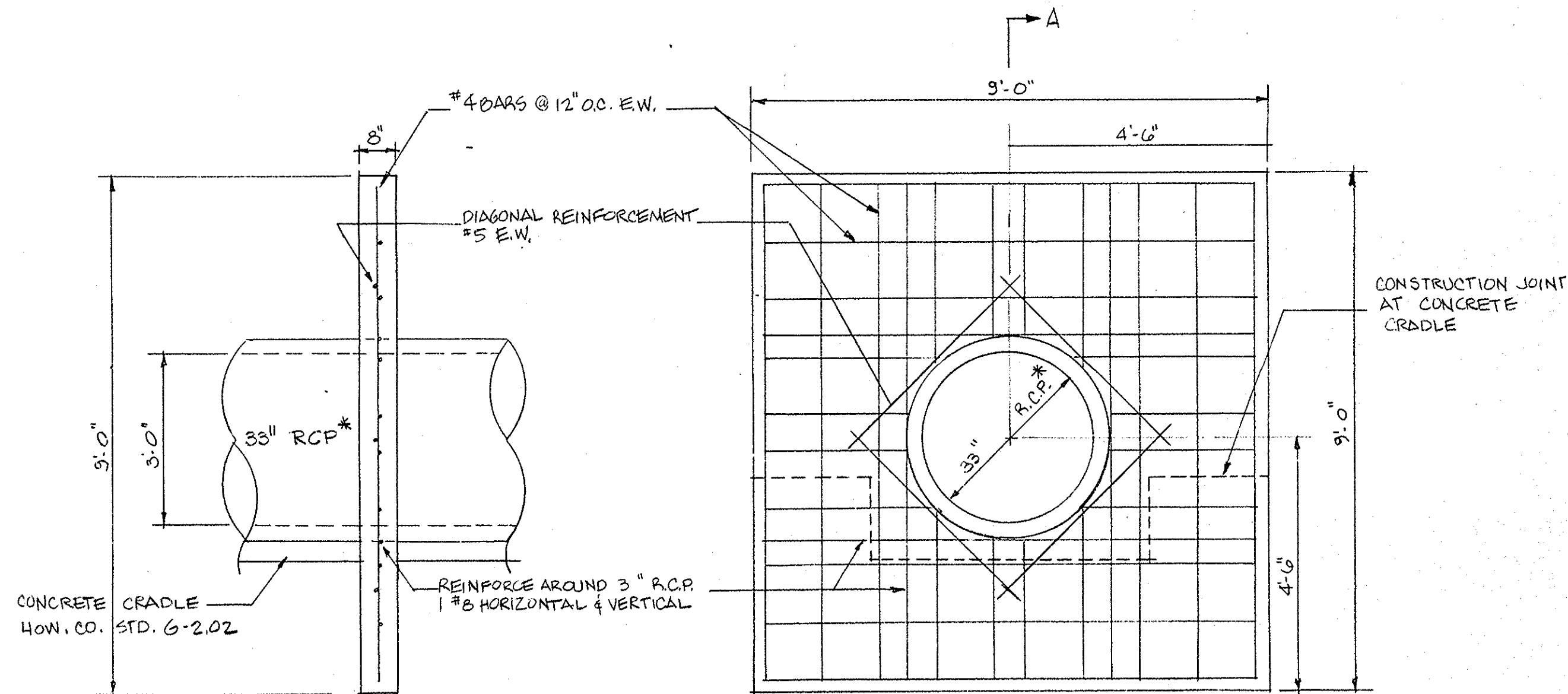


SECTION  
SCALE 1/4"=1'-0"

STONE EXIT FROM FOREBAY OF SWM BASIN



DETAIL: CORE TRENCH  
NOT TO SCALE



SECTION A-A  
SCALE 1/2"=1'-0"

DETAIL: ANTI-SEEP COLLAR  
SCALE 1/2"=1'-0"

NOTE: COLLAR TO BE PLACED AT LEAST 2 FEET FROM ANY PIPE JOINT.

\* REINFORCED CONCRETE PIPE SHALL EQUAL OR EXCEED ASTM SPECIFICATION C-361

APPROVED  
PLANNING DIRECTOR  
of HOWARD COUNTY

DATE: 2-10-92  
AKS

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

DATE: 2-10-92  
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DATE: 2/12/92  
PLANNING DIRECTOR

DATE: 2/12/92  
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 2/6/92  
DIRECTOR

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS

DATE: 2-6-92  
CHIEF, BUREAU OF BUILDINGS AND GROUNDS

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES

DATE: 2-6-92  
CHIEF, BUREAU OF UTILITIES

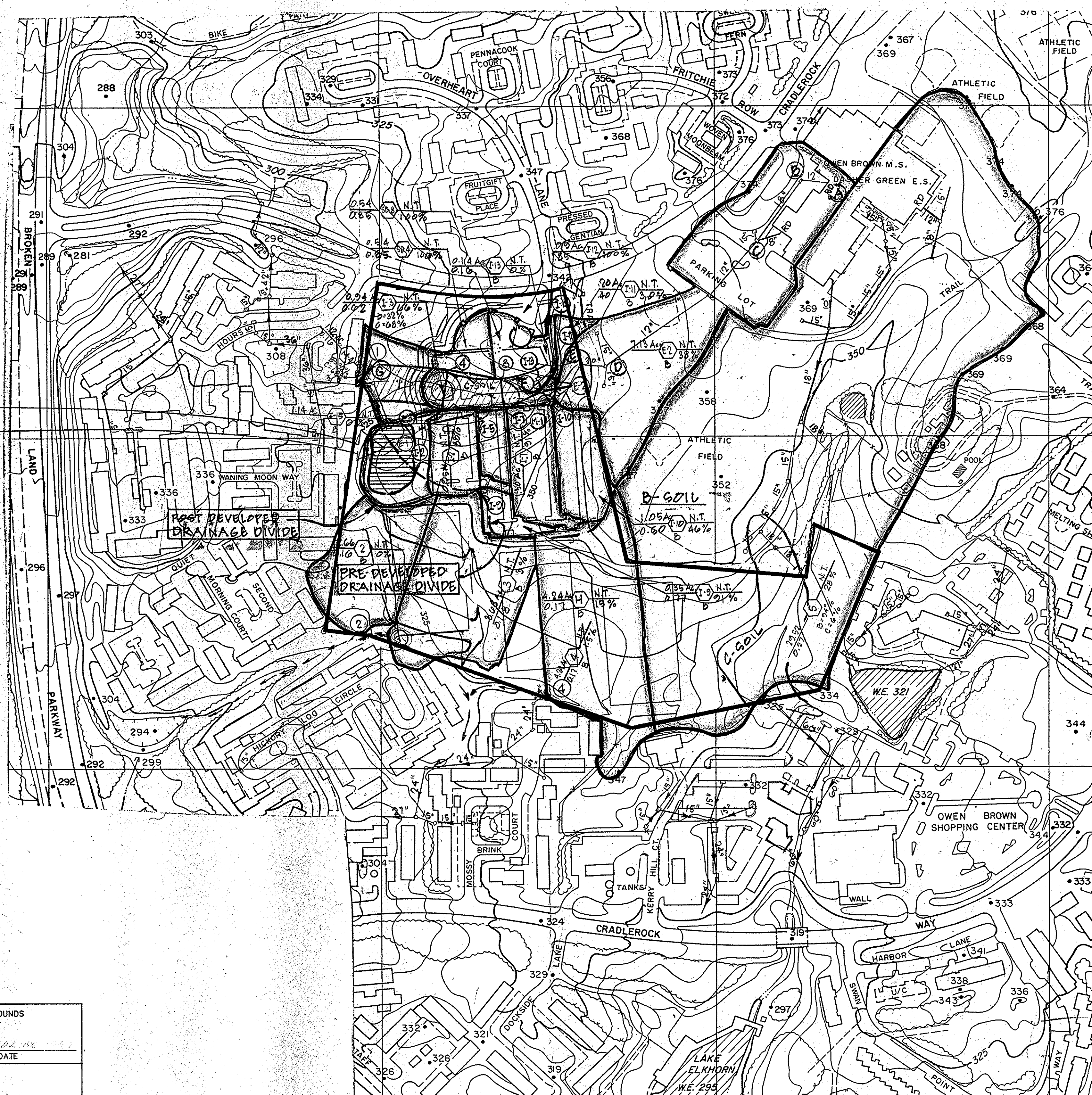
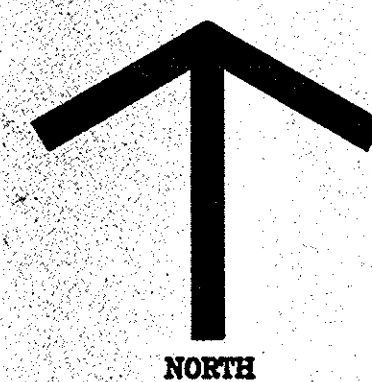
APPROVED: HOWARD COUNTY LIBRARY

DATE: 2-6-92  
DIRECTOR

STORMWATER MANAGEMENT  
EAST COLUMBIA LIBRARY  
VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A & B  
ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUMENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0002B  
DATE: OCTOBER 15, 1991 SHEET 9 OF 19

STORMWATER MANAGEMENT DETAILS  
EAST COLUMBIA LIBRARY  
HOWARD COUNTY, MARYLAND

C-9



DRAINAGE POINT	B - SOILS			C - SOILS		TOTAL AREA
	ROOF	PAVING	GRASS	PAVING	GRASS	
I-11		0.06	0.14			0.20
I-12		0.09	-			0.09
I-13		-	0.14			0.14
8	0.54	-	-			0.54
I-10		0.48	0.57			1.05
I-7		1.18	0.12			1.30
SD-4	0.54					0.54
I-3		0.20	0.10	0.42	0.22	0.94
I-9		0.32	0.03			0.35
I-5		0.36	0.07			0.43
I-2		0.84	0.11			0.95
E-2		2.76	4.37			7.13
E-15			1.14			1.14
TOTAL AREA TO G.W.M. BASIN	1.08	6.79	6.79	0.42	0.22	14.80

M-4			0.36		0.76	1.12
TOTAL AREA TO (C)	1.08	6.79	7.15	0.42	0.98	15.92

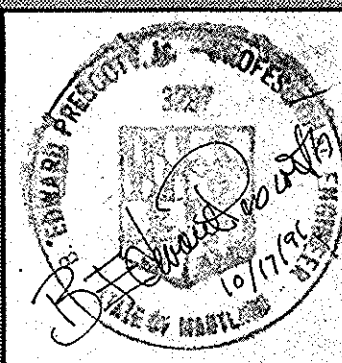
2			2.66			2.66
3		0.12	3.56			3.68
4		0.07	4.17			4.24
5		2.52	25.10		1.83	29.52

SCALE: 1" = 200'

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
 CHIEF, BUREAU OF BUILDINGS AND GROUNDS DATE 2-6-92  
 APPROVED: HOWARD COUNTY BUREAU OF UTILITIES  
 CHIEF, BUREAU OF UTILITIES DATE 2-6-92  
 APPROVED: HOWARD COUNTY LIBRARY  
 DIRECTOR DATE 2-6-92  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER DATE 2-10-92  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 PLANNING DIRECTOR DATE 2/12/92  
 CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE 2/12/92  
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE,  
 STORM DRAINAGE SYSTEMS AND ROADS,  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR DATE 2/12/92  
 CHIEF, BUREAU OF ENGINEERING DATE 2/12/92

APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 2-4-92  
 JKS

DRAINAGE AREA MAP  
 EAST COLUMBIA LIBRARY  
 VILLAGE OF OWEN BROWN SECTION 1 AREA 4 19866410  
 ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
 TAX MAP # 26  
 OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
 10275 LITTLE PATIENT PARKWAY, COLUMBIA, MARYLAND 21044  
 CAPITAL PROJECT L-0008  
 DATE: OCTOBER 15, 1991 SCALE: AS SHOWN SHEET 10 OF 19



GRIMM & PARKER ARCHITECTS  
 4061 POWDER MILL ROAD SUITE 401  
 CALVERTON, MARYLAND 20705 595-1000



DRAINAGE AREA MAP  
 EAST COLUMBIA LIBRARY  
 HOWARD COUNTY, MARYLAND

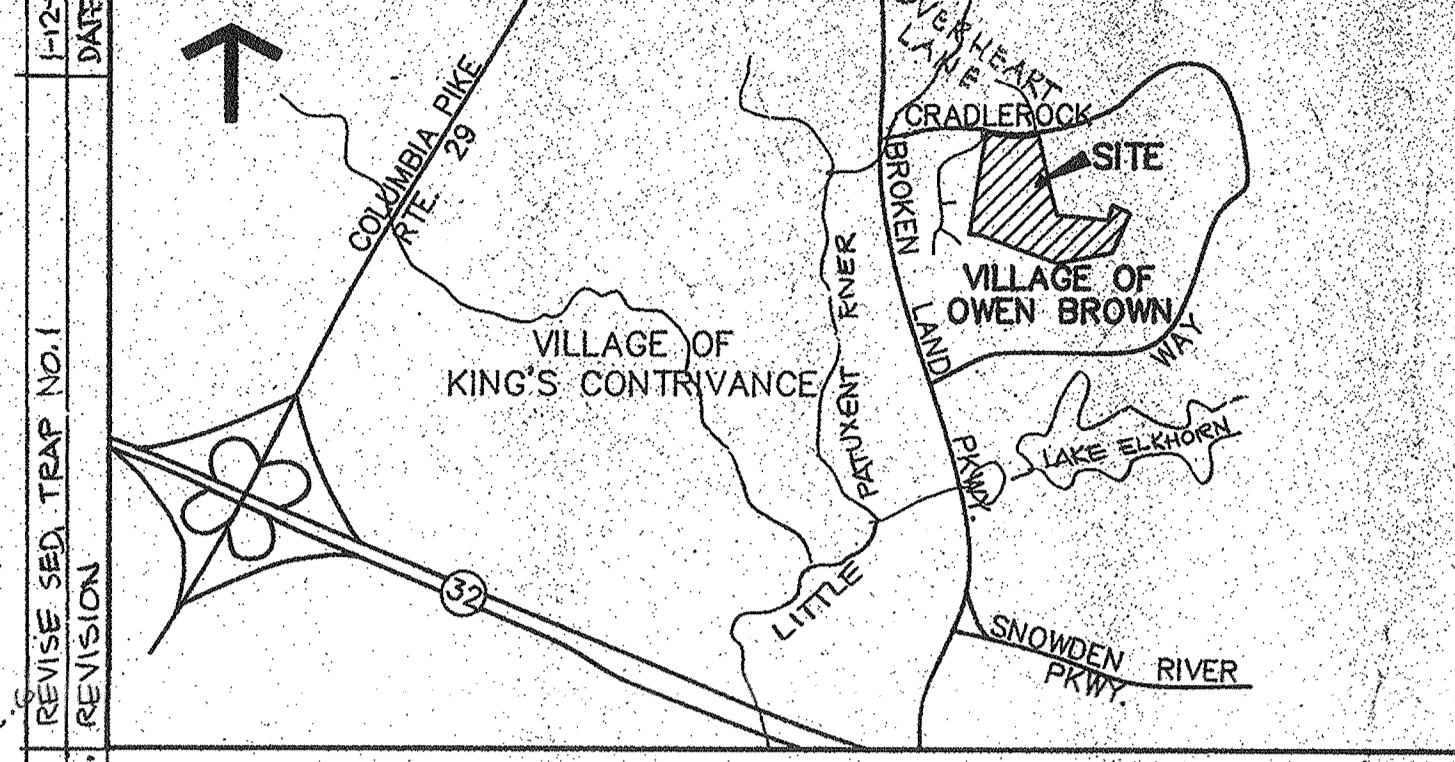
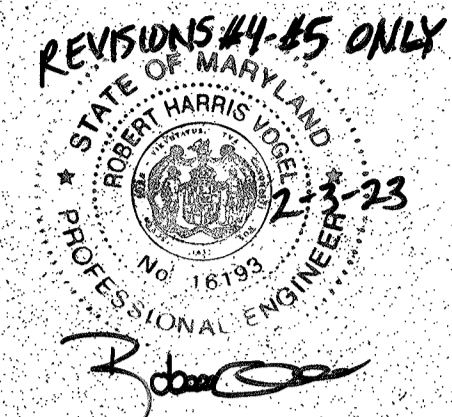
C-10

DEVELOPER:  
HOWARD COUNTY  
GENERAL ENGINEERING DIVISION  
2450 COURTHOUSE DRIVE  
ELLCOTT CITY, MD 21043  
(410) 315-2040  
ATTN: LAURA R. OSANADY, PROJECT MANAGER

BENCH MARK  
HOWARD CO. TRAV STA D-71  
ELEV. N/A

NOTE: THIS PLAN IS FOR SEDIMENT AND  
EROSION CONTROL ONLY. FOR  
GRADING AND LOCATION OF  
STRUCTURES SEE SHEETS C-1 TO C-3.

NOTE:  
FOR LOCATION OF EXISTING UTILITIES,  
NOTIFY MISS UTILITY AT 1-800-257-7777  
48 HOURS PRIOR TO ANY EXCAVATION.



VICINITY MAP  
SCALE: 1" = 200'

- LEGEND
- S-1 SILT FENCE
  - ..... LIMIT OF DISTURBANCE
  - ..... 76..... EXISTING CONTOURS
  - ..... 76..... PROPOSED CONTOURS
  - ▬ MOUNTABLE BERM
  - ▬ STABILIZED CONSTRUCTION ENTRANCE
  - ED-A1 EARTH DIKE
  - ED-B2 TEMPORARY EARTH DIKE (RETAINED UNTIL THRU S.D. PIPE IS COMPLETE)
  - ED-D2 TEMPORARY EARTH DIKE (RETAINED UNTIL THRU S.D. PIPE IS COMPLETE)
  - ID INLET BLOCKING
  - TO FLOW PATH DEVELOPED

SEQUENCE OF CONSTRUCTION

1. A MINIMUM OF 14 DAYS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS & PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. CALL (410) 880-3450.
2. INSTALL THE FOLLOWING SEDIMENT DEVICES: SDB-2, INLET PROTECTION FOR I-10, & SILT FENCE (EXCEPT THE PORTION CROSSING THE SWALE BETWEEN BASIN NO. 1 AND TRAP NO. 4).
3. BEGIN EXCAVATION FOR BASIN NO. 1. AT THE NORTH END, CONSTRUCT THE STORM DRAIN SYSTEM FROM EX-114 TO EX-115. COORDINATE INSTALLATION OF CROSSING WATER ASSESSMENT PIPES IN THIS AREA. INSTALL DRAINAGE CURBS ON EX-115. PROTECT EX-115 WITH SILT FENCE. BLOCK THE SURFACE OPENING OF EXISTING TRAP NO. 4. THE LOW 4" DIAMETER LINE OF EX-115 WITH MOUNTAIN COMPLETE THE EXCAVATION OF SEDIMENT BASIN NO. 1. 5-15
4. INSTALL S.D. STRUCTURES A-1 (E-2) & E-2 TO E-1 BETWEEN IN-104 & A TEMP. 30" DEP (APPROX. 16' LONG) NORTH FROM A-1. THIS WORK MUST BE DONE WITHIN A CLEAN WEATHER PERIOD. GRADE AT E-2 TO DIRECT THE SURFACE DRAINAGE INTO E-2. CONSTRUCT THE TEMP. 30" DEP AT THIS TIME. COORDINATE THE CONSTRUCTION OF THE S.D. SYSTEM & THE "X" DIKE.
5. GRADE ONLY THE AREA NEEDED FOR THE FOLLOWING INSTALLATION: INSTALL THE S.D. SYSTEM FROM THE SEDIMENT BASIN NO. 1 TO THE TEMPORARILY BLOCK OPENINGS IN STRUCTURES IF CONNECTING PIPES ARE NOT YET IN PLACE) THROUGH THE DRAINAGE IS COMPLETE FROM E-2 TO E-1. INSTALL THE SILT FENCE BETWEEN TRAP NO. 4 & THE SEDIMENT BASIN. 20-40
6. INSTALL SEDIMENT BASIN NO. 2. THIS IS E-3.4. THE SILT FENCE LENGTH PIPES EXCEPT THE EARTH PIPE WHICH RUNS BETWEEN TRAP NO. 4 AND THE SEDIMENT BASIN. 20-40
7. AREA BETWEEN TRAP NO. 4 & SEDIMENT BASIN: FILL THE AREA TO EL. 326.0 IN ONE WORKING DAY AND ONLY WHEN THE DISTURBED CHANNEL IS DRY (USING THE AREA UP TO CURB) AND INSTALL THE BENCH DIKE AS SHOWN. AS GRADING IS COMPLETED TO THE TEMPORARY EARTH DIKE "X", IT CAN BE ABANDONED SINCE THE RUNOFF IS NOW DIRECTED INTO THE TRAPS & BASIN.
8. INSTALL WATER AND SEWER, INSTALL S.D. SYSTEM & CONNECT TO 30" S.D. MAIN. 48-200
9. INSTALL CURBS, GUTTERS AND BASE PAVING. 60-200
10. CONSTRUCT THE BUILDING & LANDSCAPE SITE. 70-260
11. CONSTRUCT FOREBAY IN SWM POND, UNBLOCK LOW AND MIDDLE WEIRS IN STRUCTURE I-15. REMOVE DEWATERING DEVICE AND INSTALL LOW FLOW DEVICE WITH 3" OPENING. 200-360
12. SEDIMENT & EROSION CONTROL FOR ROAD UNDERMINING: BLOCK EXISTING INLETS I-52 & I-52a. PROVIDE PROTECTION FOR THE JOINTS WITH STREET CURBS.
13. STABILIZE ALL DISTURBED AREAS AND WITH APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT DEVICES. STABILIZE REMAINDER OF DISTURBED AREA. 360-370

VILLAGE OF OWEN BROWN  
SECTION 1 AREA 2  
ZONED-NEW TOWN

TRAP #4  
PIPE OUTLET SEDIMENT TRAP-STI  
DRAINAGE AREA:  
PRE-DEVELOPED = 1.56 AC. (PRESENT)  
POST-DEVELOPED = 1.05 AC.  
STORAGE REQUIRED FOR SWM = 2800 CF  
TOTAL STORAGE REQUIRED FOR SWM = 2824 CF  
STORAGE PROVIDED = 0.15 AC-FT

BARREL DIAM. = 15" COMP  
RISER DIAM. = 18" COMP  
3" CRIBS @ INV. EL. = 322.65 FOR TEMP SWM.  
TOP OF RISER EL. = 324.5'  
BOTTOM EL. = 320.0'  
TOP OF EMANKMENT EL. = 326.33'  
CLEAN OUT EL. = 322.0'

SEDIMENT BASIN NO. 1  
FUTURE USE AS SWM POND-SEE SHEETS C-1 & C-2  
DRAINAGE AREA:  
PRE-DEVELOPED = 13.62 AC. (PRESENT)  
POST-DEVELOPED = 15.62 AC.  
STORAGE REQUIRED FOR SWM = 28,000 CF  
STORAGE PROVIDED = 23,000 CF  
TOTAL STORAGE REQUIRED FOR SWM = 23,000 CF  
STORAGE PROVIDED = 12,726 CF  
BARREL DIAM. = 36" ROR (PERMANENT S.D. PIPE)  
RISER DIM. = 5.6x12.0  
CONC. S.D. STRUCTURE I-15 USED AS RISER  
TOP OF RISER = EL. 323.75'  
10" CRIBS INV. EL. 321.70 FOR TEMP SWM.  
TOP OF EMANKMENT = EL. 326.50'  
BOTTOM OF BASIN = EL. 317.0'  
CLEANOUT = EL. 319.15'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 2-16-22

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
PLANNING DIRECTOR  
DATE: 2/16/22

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND ROADS,  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 2/16/22

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
DATE: 2/16/22

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES  
DATE: 2/16/22

APPROVED: HOWARD COUNTY LIBRARY  
DATE: 2/16/22

5. ADD OVERHEAD CARPORT SOLAR PANELS AND REVISE LANDSCAPING 2-7-23  
1. ADD ROOF TOP SOLAR PANELS TO EXISTING BUILDING 12-4-21  
REVISION DATE

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTICED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED AS BUILT OF THE POND WITHIN 30 DAYS OF COMPLETION.

Reviewed for Howard S.C.D. Requirements  
Date: 2/16/22  
V.S. Soil Conservation Service  
THIS DEVELOPMENT PLAN IS APPROVED FOR POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
B. Edward Prescott, Jr. P.E. 10/7/21 DATE

SEDIMENT & EROSION CONTROL SHEET 1 OF 5

DEVELOPER  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT, POND CONSTRUCTION AND EROSION AND SEDIMENT CONTROL. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEMAND NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED LINED AS BUILT OF THE POND WITHIN 30 DAY OF COMPLETION.

SIGNATURE OF DEVELOPER  
DANIEL W. BENNETT, JR. 2/23/22 DATE

SCALE: 1" = 30'

REFER TO "CONDITIONS & MANAGEMENT PRACTICES..." ON C-3 WHEN WORKING IN THE NON-TYPICAL WETLANDS MITIGATION AREA

SUBDIVISION NAME	SECT./AREA	TRAP/PARCEL #
VILLAGE OF OWEN BROWN	1/4	A, B
PLAT # OR L.P. BLOCK #	ZONE	MAXIMUM MAX. ELEC. DIST. (FEET) IN NEW
21	# 26	8 6067.02
WATER CODE	CONNECTION SEWER CODE	

SITE & GRADING PLAN  
EAST COLUMBIA LIBRARY

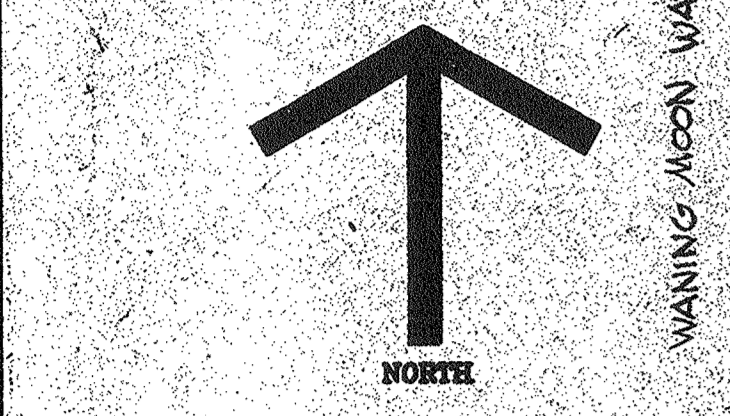
VILLAGE OF OWEN BROWN SECTION 1 AREA 2 ZONED-NEW TOWN  
ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
0008  
DATE: OCTOBER 15, 1991 (66A) 5:13  
SHEET 11 OF 11

GRIMM & PARKER ARCHITECTS  
4061 POWDERMILL ROAD SUITE 401  
CALVERTON MARYLAND 20705 595-1000

SEDIMENT AND EROSION CONTROL PLAN  
EAST COLUMBIA LIBRARY  
HOWARD COUNTY MARYLAND

C-11

MATCHLINE SHEET C-II



NOTE: THIS PLAN IS FOR SEDIMENT AND EROSION CONTROL ONLY. FOR GRADING AND LOCATION OF STRUCTURES, SEE SHEETS C-1 TO C-3.

- 6610 GLENN L. HAGAN
- 6612 JEFFREY BELLAMY
- 6614 STEVE BLEDSOE
- 6618 DAVID SMITH
- 6618 DEBORAH L. HENRY
- 6620 PAMELA AVERY HIGHTOWER

- VILLAGE OF OWEN BROWN SECTION 1 AREA 1 ZONED-NEW TOWN
- 6634 GLENN W. CAREY
  - 6632 JOHN M. FOLEY
  - 6630 WYMAN W. SHANNON
  - 6628 MARRETTA SHANNI PESSAD
  - 6626 WARRINA SHANNI PESSAD
  - 6624 GABRIEL D. IRGENS
- VILLAGE OF OWEN BROWN SECTION 1 AREA 1 ZONED-NEW TOWN
- 6711 LISA J. DONAGIO
  - 6713 PATRICIA ANN DIXON
  - 6715 JOHN SUTTON SLOAN
  - 6717 KENN W. HOWARD

SEDIMENT BASIN NO. 2  
SEE SHT. C-13

RAINAGE AREA:  
POST DEVELOPED = 5.60 AC.  
PRE DEVELOPED = 4.61 AC.  
STORAGE REQUIRED SC = 10,080 CF  
STORAGE REQUIRED SWM = 16,117 CF  
TOTAL STORAGE PROVIDED = 26,197 CF  
TOTAL STORAGE REQUIRED = 26,197 CF  
BARREL DIAM. = 24" CMP  
RISER DIAM. = 24" CMP w/ 6" ORIFICE  
TOP OF RISER EL. = 320.80

TOP OF EMBANKMENT EL. = 323.0'  
BOTTOM EL. = 317.5'  
CLEAN OUT EL. = 318.1'

TRAP # 2 SEE DETAIL SHT. C-14  
PIPE OUTLET SEDIMENT TRAP ST-1  
RAINAGE AREA:  
PRE-DEVELOPED = 5.0 AC.  
POST-DEVELOPED = 4.62 AC.  
STORAGE REQUIRED SC = 9,144 CF  
STORAGE REQUIRED SWM = 15,367 CF  
TOTAL STORAGE PROVIDED = 24,511 CF  
TOTAL STORAGE REQUIRED = 24,511 CF  
BARREL DIAM. = 21" CMP PIPE  
RISER DIAM. = 21" CMP PIPE  
6" ORIFICE @ INV. EL. = 325.50 FOR TEMP. SWM  
TOP OF RISER = 328.50

TOP OF EMBANKMENT EL. = 330.0'  
BOTTOM EL. = 323.0'  
CLEAN OUT EL. = 324.25'  
SIDE SLOPES: CUT 1:1, FILL 2:1

NOTE: THERE IS NO TRAP #1.

APPROVED  
PLANNING DIRECTOR  
DATE: 2/1/92  
SJS

\*SEE SOLAR NOTES AND DETAIL ON SHEET C-2

DEVELOPER  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT, POND CONSTRUCTION AND EROSION AND SEDIMENT CONTROL. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED AS BUILT OF THE POND WITHIN 30 DAYS OF COMPLETION.

SIGNATURE OF DEVELOPER: DANIEL W. BENNETT, JR.  
DATE: 11-25-91

Reviewed for Howard S.C.D.  
and meets Technical Requirements  
Signature: Robert J. John  
Date: 2/1/92  
U.S. Soil Conservation Service  
THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER  
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTICED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED AS BUILT OF THE POND WITHIN 30 DAYS OF COMPLETION.

Signature: B. Edward Prescott, Jr.  
DATE: 10/11/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 2-10-92

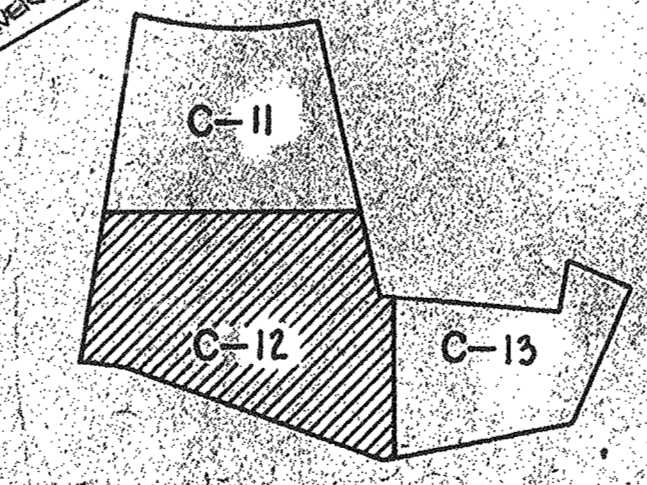
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
DATE: 2/12/92

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADWORK  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 2/16/92

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
DATE: 2/6/92

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES  
DATE: 2/6/92

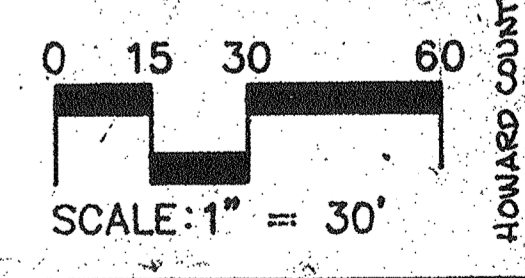
APPROVED: HOWARD COUNTY LIBRARY  
DATE: 2/6/92



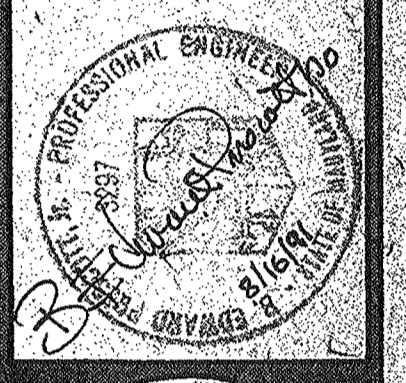
REVISION #5 ONLY  
PROFESSIONAL ENGINEER  
NO. 16193

SEDIMENT & EROSION CONTROL SHEET 2 OF 5

SITE & GRADING PLAN  
EAST COLUMBIA LIBRARY  
VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A4E  
ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0003  
DATE: OCTOBER 15, 1991 66416-1E-30 SHEET 12 OF 19



NO.	REVISION	DATE
1	CONVERT TRAP NO. 1 TO BASIN NO. 2	11-2-91
2	SEE OVERLAP CHANGE SHADE PANELS AND ROUSE LAURENCE	2-3-92
3	ADD BARRETT SHADE PANELS TO EXISTING RAISING	12-4-91



GRIMM & PARKER ARCHITECTS  
4061 POWDERMILL ROAD SUITE 401  
CALVERTON, MARYLAND 20705 595-1000

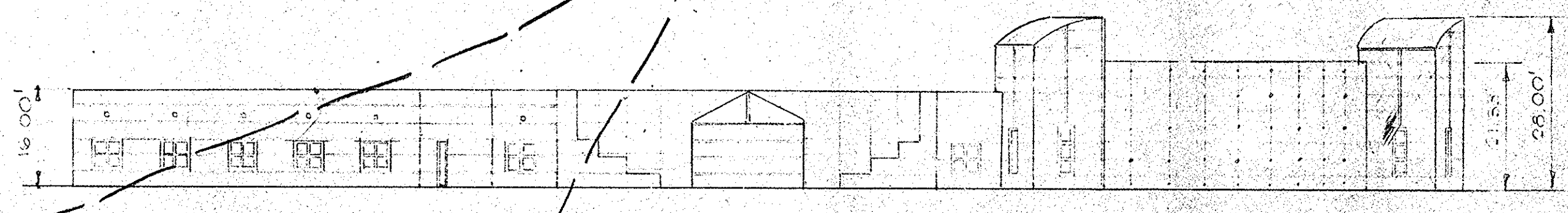
SEDIMENT AND EROSION CONTROL PLAN  
EAST COLUMBIA LIBRARY  
HOWARD COUNTY MARYLAND

C-12

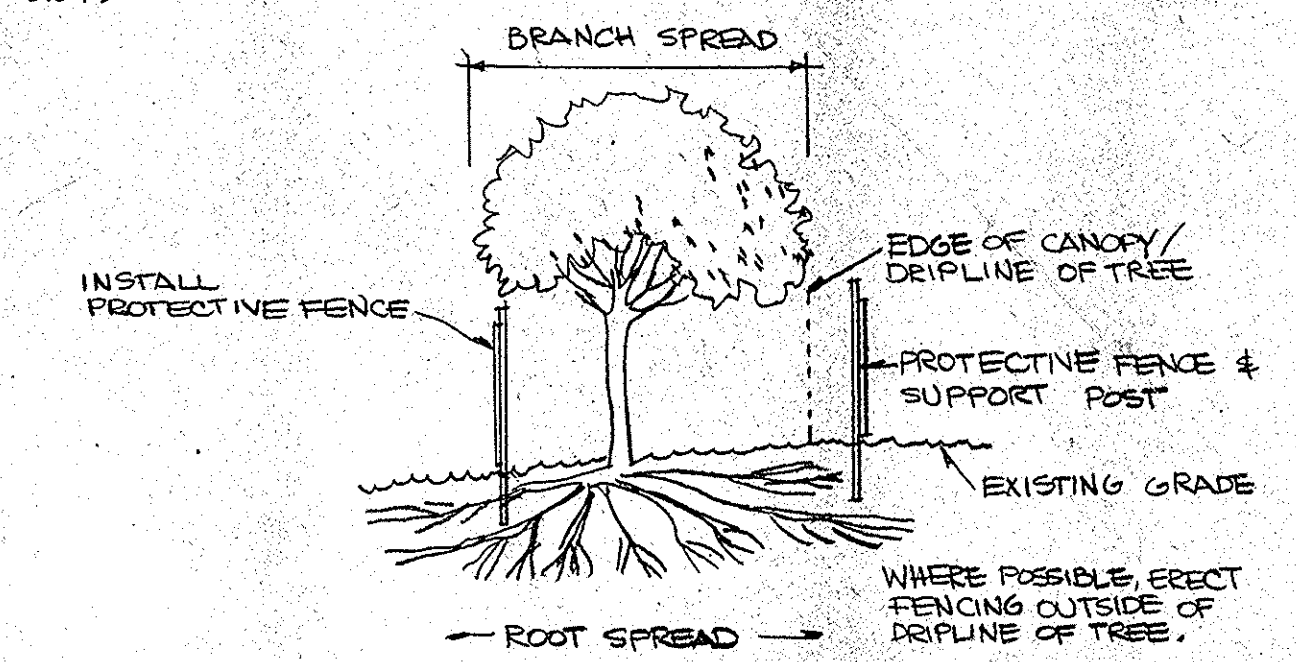
**TRAP #3**  
 PIPE OUTLET SEDIMENT TRAP - ST1  
 DRAINAGE AREA  
 PRE-DEVELOPED = 365 AC.  
 POST-DEVELOPED = 4.18 AC.  
 STORAGE REQUIRED FOR SED. CONTROL = 7,524 CF  
 STORAGE REQUIRED FOR SWM = 10,456 CF  
 TOTAL STORAGE REQUIRED = 23,980 CF  
 STORAGE PROVIDED = 27,600 CF  
 BARREL DIAM. = 21"  $\phi$  CMP  
 RISER DIAM. = 30"  $\phi$  CMP W/ A  
 6" ORIFICE @ INV. EL. 325.25' FOR TEMP SWM.  
 TOP OF RISER = EL. 324.90'  
 INVERT OF BARREL @ RISER = EL. 323.0'

LOT 3-A  
 VILLAGE OF OWEN BROWN  
 SECTION 1 AREA 2  
 ZONED - NEW TOWN  
 BOTTOM EL. = 324.0'  
 CLEANOUT EL. = 324.62'  
 TOP OF EMBANKMENT EL. = 328.5'

BOARD OF EDUCATION OF HOWARD COUNTY  
 MARYLAND ROUTE 100  
 COLUMBIA, MD 21044

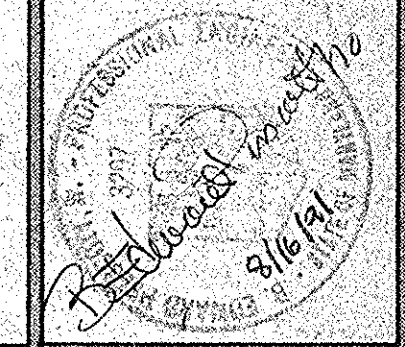


SCHEMATIC PROFILE  
 EAST ELEVATION  
 NOT TO SCALE



TREE PRESERVATION DETAIL NO SCALE  
 TREE PRESERVATION DEVICES TO BE INSTALLED PRIOR TO ROUGH GRADING.

NO.	DATE	REVISIONS
1	2-19-92	REVISE WETLAND MITIGATION AREA GRADES

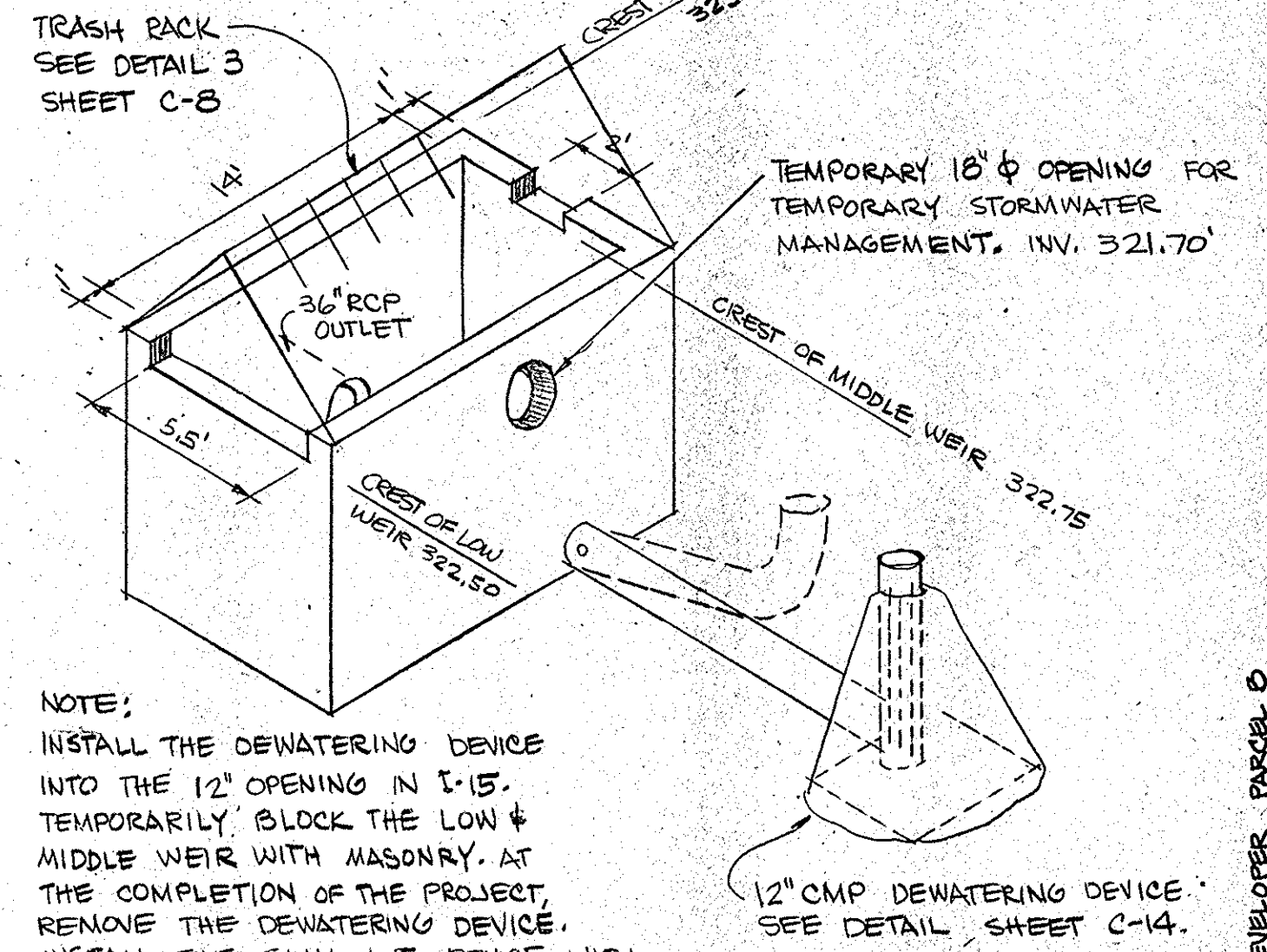
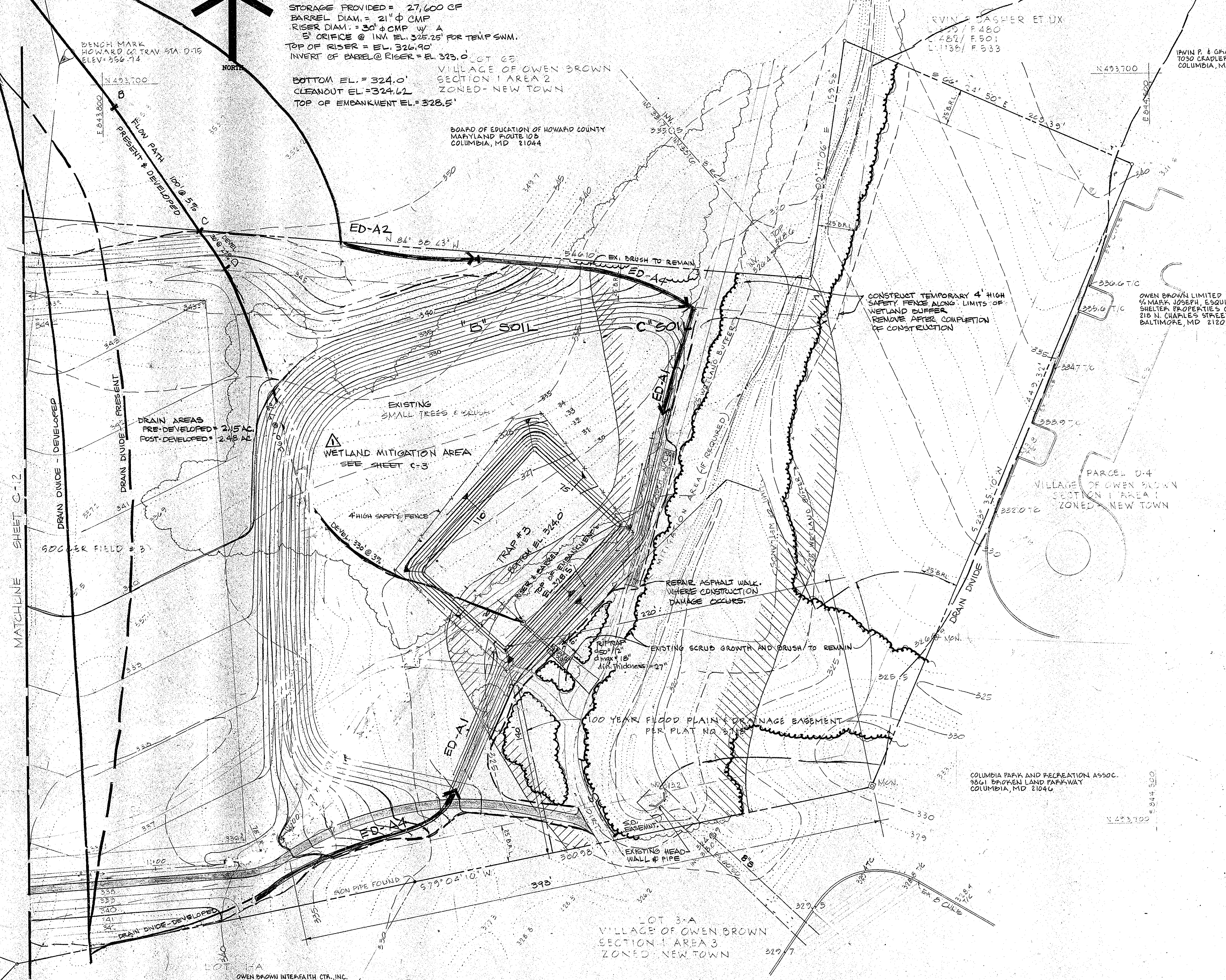


**GRIMM & PARKER ARCHITECTS**  
 4061 POWDERMILL ROAD SUITE 401  
 CALVERTON, MARYLAND 20705 595-1000



SEDIMENT AND EROSION CONTROL PLAN  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY MARYLAND

**C-13**

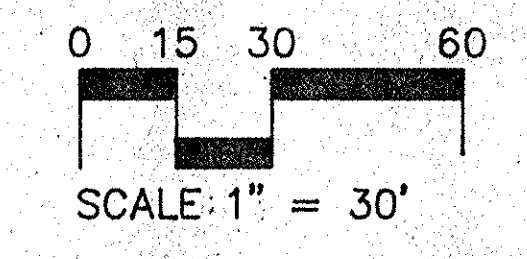


NOTE:  
 INSTALL THE DEWATERING DEVICE INTO THE 12" OPENING IN I-15. TEMPORARILY BLOCK THE LOW & MIDDLE WEIR WITH MASONRY. AT THE COMPLETION OF THE PROJECT, REMOVE THE DEWATERING DEVICE. INSTALL THE SWM I.F. DEVICE WITH EXTENDED DETENTION 3" ORIFICE IN A 12" PIPE. REMOVE THE TEMPORARY WEIR BLOCKING.

STORM DRAIN INLET I-15/SEDIMENT BASIN NO. 1 RISER  
 SEE SHEET C-8 FOR DETAILS NO SCALE

NOTE: THIS PLAN IS FOR SEDIMENT AND EROSION CONTROL ONLY. FOR GRADING AND LOCATION OF STRUCTURES SEE SHEETS C-1 TO C-3.

SEDIMENT & EROSION CONTROL SHEET 3 OF 5



SITE & GRADING PLAN  
**EAST COLUMBIA LIBRARY**  
 VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A+B  
 ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
 TAX MAP # 36  
 OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
 CAPITAL PROJECT L-000B  
 DATE: OCTOBER 15, 1991 SCALE: 1" = 30' SHEET 13 OF 19

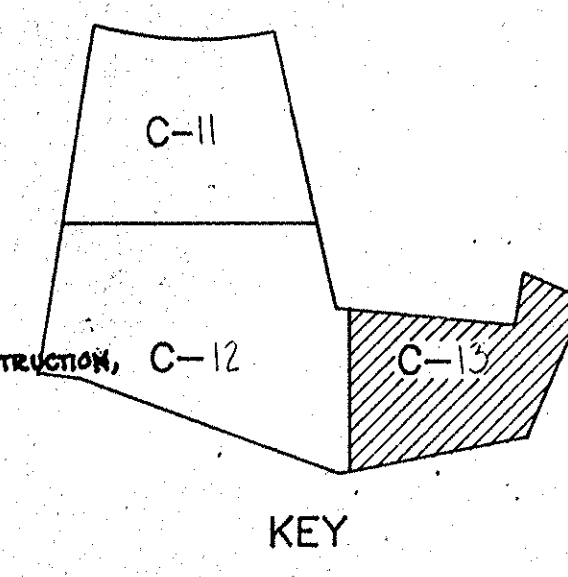
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: 2-10-92  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 DATE: 2/12/92  
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 2-6-92

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
 DATE: 2-6-92  
 APPROVED: HOWARD COUNTY BUREAU OF UTILITIES  
 DATE: 2-6-92

APPROVED  
 PLANNING BOARD  
 of HOWARD COUNTY  
 DATE: 2-4-92

ENGINEER  
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DISTRICT THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED 'AS BUILT' OF THE POND WITHIN 30 DAYS OF COMPLETION.  
 DATE: 2/14/92

Reviewed for Howard S.C.D.  
 Name: [Signature]  
 Signature: [Signature]  
 Date: 2/14/92  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature: [Signature]  
 Date: 2/14/92



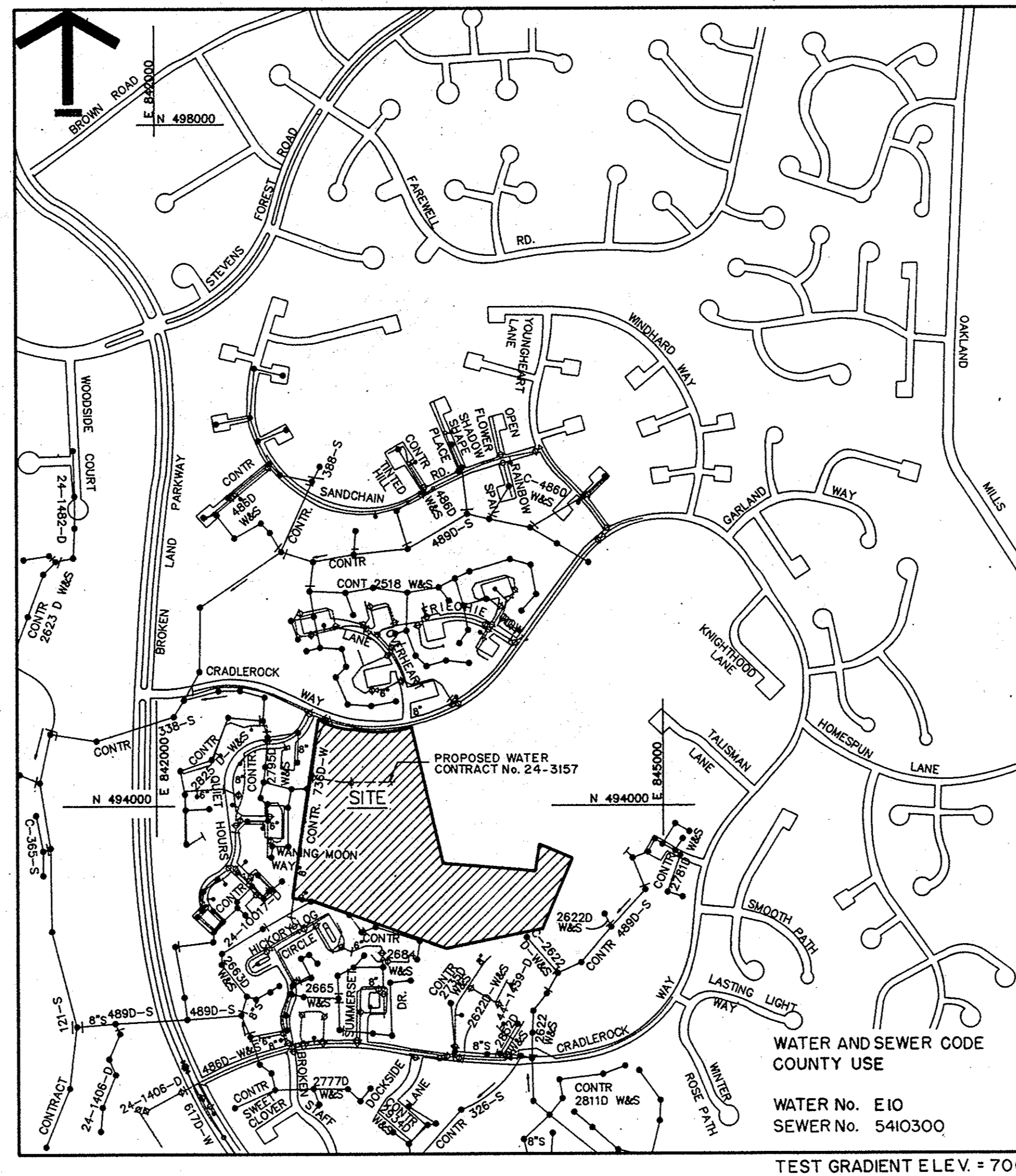
DEVELOPER  
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 Signature: [Signature]  
 Date: 11-25-91  
 SIGNATURE OF DEVELOPER: DANIEL W. BENNETT, J.P.







TYPE OF BUILDING	Library, Facilities Bldg.
NUMBER OF PARCELS	2
NUMBER OF SHC's	2
NUMBER OF WHC's	2
DRAINAGE AREA	Little Patuxent
TREATMENT PLANT	L.P.W.Q.M.C.



VICINITY MAP  
SCALE: 1" = 600'

**CONTRACT NO. 24-3157**  
**VILLAGE OF OWEN BROWN**  
**PARCELS A & B**  
**SECTION 1, AREA 4**  
**EAST COLUMBIA LIBRARY**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

- GENERAL NOTES
1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the inspector, at the Contractor's expense.
  2. All horizontal controls are based on Maryland State Coordinates.
  3. All vertical controls are based on U.S.G.S. Datum.
  4. All pipe elevations shown are invert elevations.
  5. Clear all utilities by a minimum of 6"; clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the Contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
  6. For details not shown on the drawings use Howard County Standard Details.
  7. For materials and construction methods use Howard County Standard Specifications.
  8. Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
  9. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.

State Highway Administration - 531-5533  
 Baltimore Gas and Electric Company - Contractor Services 850-4620

Baltimore Gas and Electric Company - Underground Damage Control 787-9068

Baltimore Gas and Electric Company - Trouble Shooting 298-9013

"Miss Utility" 1-800-257-7777

Colonial Pipeline Company 795-1390  
 Bureau of Utilities Howard County 313-4900

10. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the Contractor.
11. Contractor shall remove trees, stumps, and roots along line of excavation as directed by the inspector. Payment for such removal shall be included in the unit price bid for excavation and backfill.
12. Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
13. All water mains to be D.I.P. class 52 unless otherwise noted.
14. Top of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
15. Valves adjacent to tees shall be strapped to tees.
16. Block all fittings with concrete.
17. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained ~~and~~ in accordance with standard detail W2. Soil around the fire hydrant to be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
18. The Contractor shall not operate any water main valves on the existing system.
19. Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.
20. All water house connections shall be for inside setting unless otherwise shown.
21. All D.I.P. fittings shall be in accordance with A.W.W.A. specifications C-153 ductile iron compact fittings 3-inches through 12-inches for water and other liquids.

QUANTITIES			
ITEM	ESTM'D	AS-BUILT	MATERIAL/SUPPLIER
8" W	505 LF		
6" W	20 LF		
2" W	25 LF		
FH	1 EA.		
8" TS & V	1 EA.		
8"x6" T	2 EA.		
8" V	1 EA.		
6" V	2 EA.		
2" M. VAULT	1 EA.		
8" CAP	1 EA.		
8" LVB	1 EA.		
2" WHC TAP	1 EA.		
8" S	30 LF		

CHARGE INSPECTION TO CAPITAL PROJECTS NO. S-6792

Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications and with Site Development Plan SDP - 12-12 - Drawing to C-15, Sediment & Erosion Control

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

*Donna M. Helms* 1/22/92  
 SIGNATURE DATE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District

APPROVED: *Stephen W. Fleming* 1/22/92  
 HOWARD S.C.D. DATE

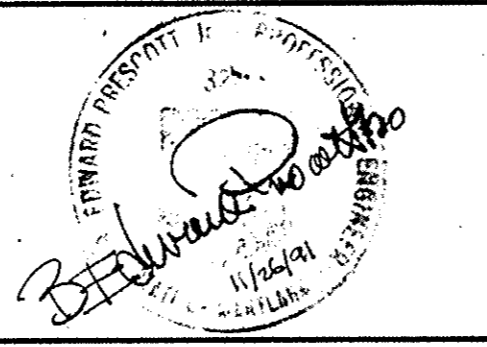
DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James P. ...* 1/22/92  
 DIRECTOR OF PUBLIC WORKS DATE

*...* 1-16-92  
 CHIEF, BUREAU OF UTILITIES DATE

*...* 1/22/92  
 CHIEF, LAND DEVELOPMENT DIV. DATE

GRIMM AND PARKER  
 ARCHITECTS - PLANNERS - ENGINEERS  
 A PROFESSIONAL CORPORATION  
 4061 POWDER MILL ROAD SUITE 401  
 CALVERTON, MARYLAND 20705  
 (301) 595-1000 FAX (301) 595-0089



DES: BEP			
DRN: WEL/ MCE			
CHK: BEP			
DATE: 11-12-91	BY	REVISION	DATE

TITLE SHEET

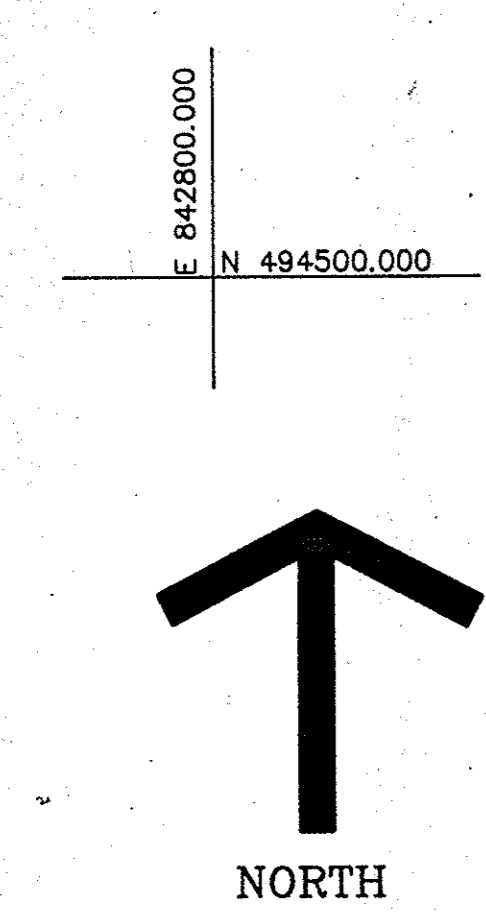
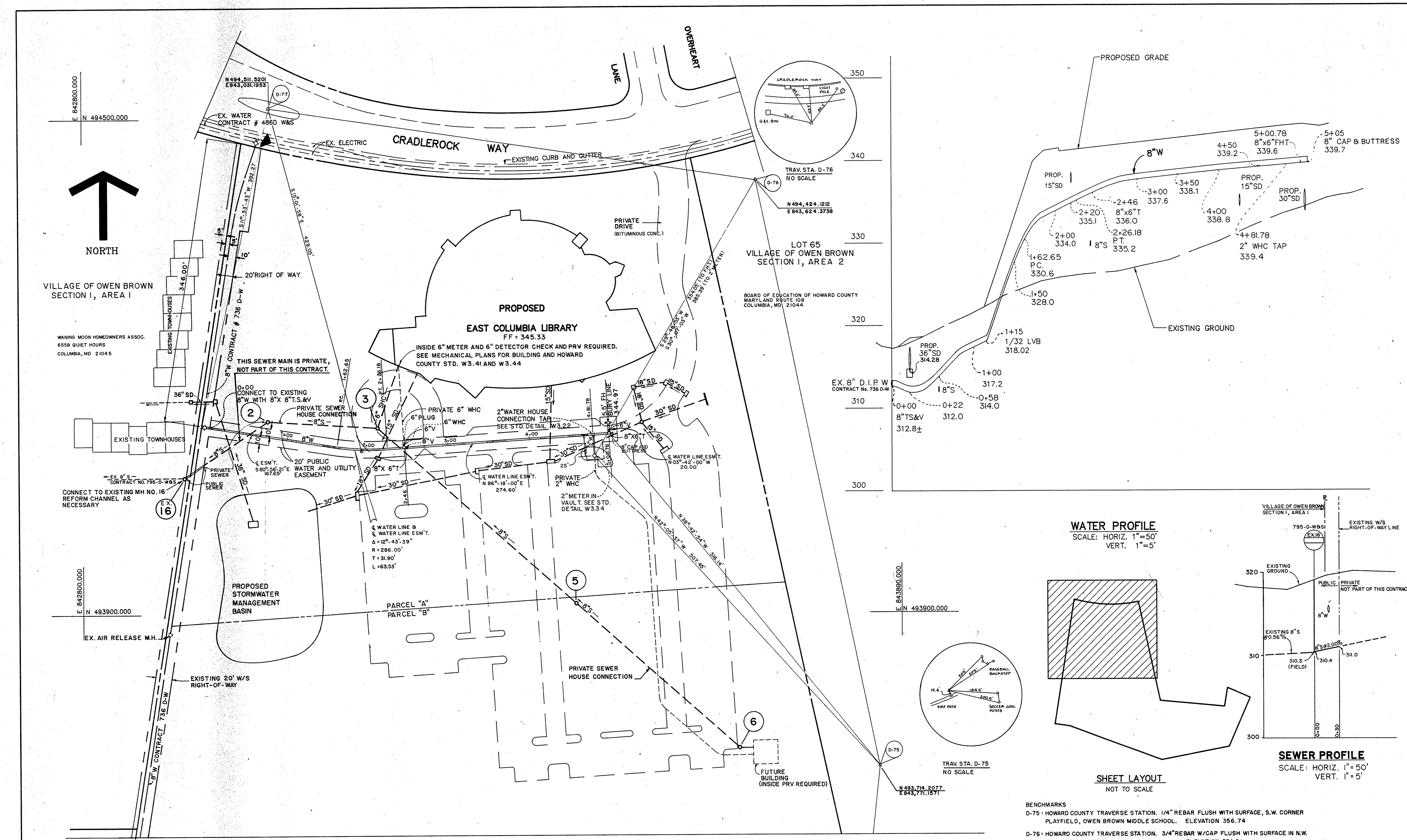
600' SCALE MAP NO. 36 BLOCK NO.

VILLAGE OF OWEN BROWN  
 PARCELS A & B  
 SECTION 1 AREA 4  
 SIXTH ELECTION DISTRICT  
 CONTRACT NO. 24-3157

SCALE AS SHOWN  
 SHEET 1 OF 2

GRIMM AND PARKER  
 ARCHITECTS - PLANNERS - ENGINEERS  
 4061 POWDER MILL ROAD SUITE 401 CALVERTON, MD 20705 • (301) 595-1000 • FAX (301) 595-0089 • A PROFESSIONAL CORPORATION

WATER LINE CONTRACT  
 EAST COLUMBIA LIBRARY  
 HOWARD COUNTY MARYLAND



VILLAGE OF OWEN BROWN SECTION I, AREA I

WAINING MOON HOMEOWNERS ASSOC. 6558 QUIET HOURS COLUMBIA, MD 21045

E 842800.000  
N 493900.000

PLAN  
SCALE: 1"=50'

WATER PROFILE  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

SEWER PROFILE  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

SHEET LAYOUT  
NOT TO SCALE

BENCHMARKS  
D-75 - HOWARD COUNTY TRAVERSE STATION. 1/4" REBAR FLUSH WITH SURFACE, S.W. CORNER PLAYFIELD, OWEN BROWN MIDDLE SCHOOL. ELEVATION 356.74  
D-76 - HOWARD COUNTY TRAVERSE STATION. 3/4" REBAR W/CAP FLUSH WITH SURFACE IN N.W. CORNER OF PLAYFIELD. ELEVATION 354.21

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

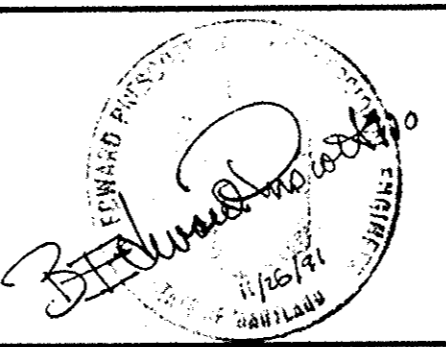
*James P. ...* 1/27/92  
DIRECTOR OF PUBLIC WORKS DATE

*Robert ...* 1/16/92  
CHIEF, BUREAU OF UTILITIES DATE

*...* 1/27/92  
CHIEF, BUREAU OF ENGINEERING DATE

*...* 1/16/92  
CHIEF, LAND DEVELOPMENT DIV. DATE

GRIMM AND PARKER  
ARCHITECTS - PLANNERS - ENGINEERS  
A PROFESSIONAL CORPORATION  
4081 POWDER MILL ROAD, SUITE 401  
CALVERTON, MARYLAND 20705  
(301) 595-1000 FAX (301) 595-0089



DES: BEP			
WEL / DRN: MGE			
CHK: BEP			
DATE: 11-12-91	BY:	REVISION	DATE

PLAN AND PROFILE

600' SCALE MAP NO. 36

BLOCK NO.

VILLAGE OF OWEN BROWN  
PARCELS A & B  
SECTION I AREA 4  
SIXTH ELECTION DISTRICT  
CONTRACT NO. 24-3157

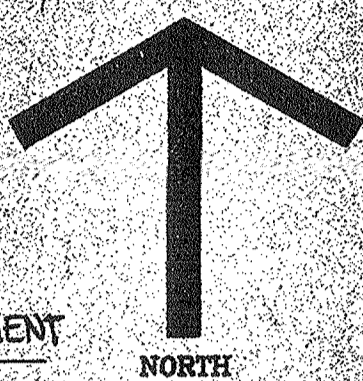
SCALE AS SHOWN

SHEET 2 OF 2

GRIMM AND PARKER  
 ARCHITECTS - PLANNERS - ENGINEERS  
 4081 POWDER MILL ROAD • SUITE 401 • CALVERTON, MD 20705 • FAX (301) 595-0089 • A PROFESSIONAL CORPORATION  
 WATER LINE CONTRACT  
 EAST COLUMBIA LIBRARY  
 HOWARD COUNTY MARYLAND

W-2

BID SET  
18 FEB 92

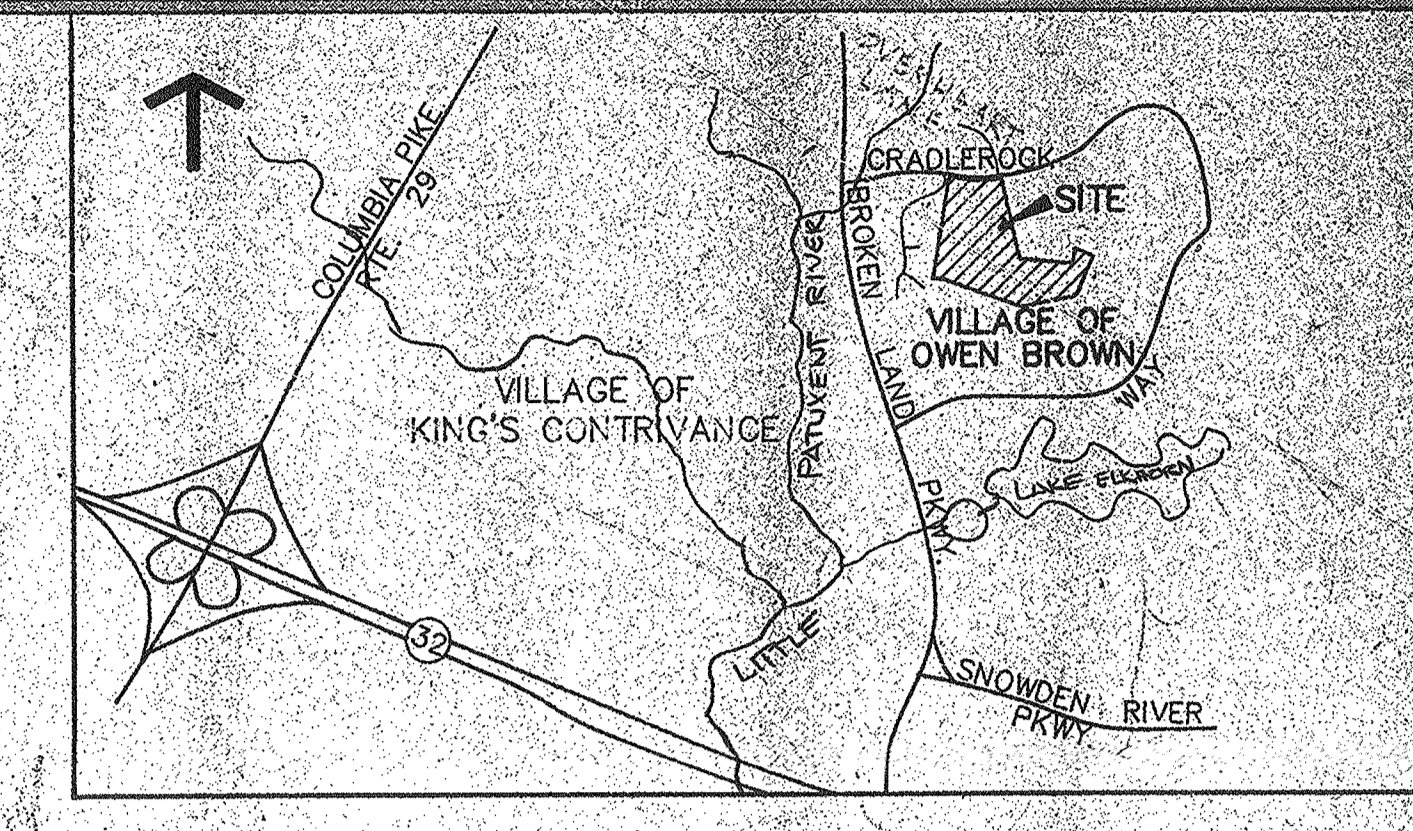


TYPES OF VEGETATIVE TREATMENT

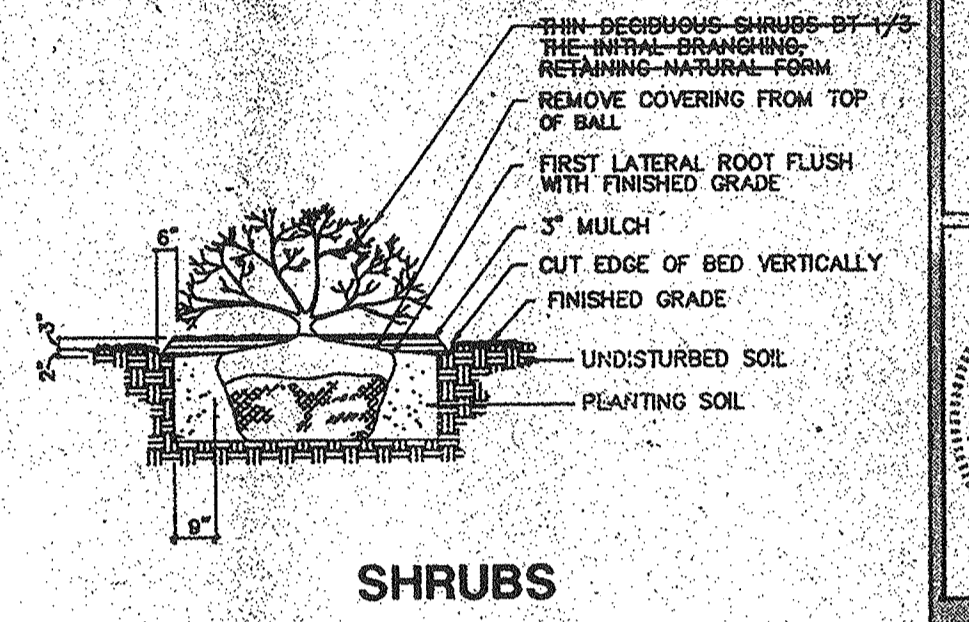
- TYPE 0** EXISTING VEGETATION UNDISTURBED.
- TYPE 1** CLEAR VINES & WEEDS. RETAIN TREES THAT ARE NOTED & TREE SAPLINGS & SEEDLINGS. REMOVE SHRUBS. DO NOT TILL SEED OR MOW.
- TYPE 2** CLEAR VINES & WEEDS. RETAIN TREES NOTED & TREE SAPLINGS & SEEDLINGS. REMOVE SHRUBS, TILL AREA & SOIL WITH GRASS SEED. EXCEPT CLEAR BY HAND THE SURFACE GROWTH OVER THE TREE ROOT ZONES.
- TYPE 3** CLEAR ALL EXISTING VEGETATION IN THIS AREA EXCEPT FOR TREES NOTED ON PLAN. PROTECT EXISTING TREES. REMOVE ROOT MAT LAYER, ADD 4" LAYER OF TOPSOIL AND INSTALL SEED PER NEW LAWN SPECIFICATIONS, EXCEPT CLEAR BY HAND THE SURFACE GROWTH OVER THE TREE ROOT ZONES.
- TYPE 4** SEEDING - SEE LANDSCAPE NOTE 2 - SHT. L-4. DISTURBED AREAS TO BE SEEDDED PER SPECIFICATIONS ON 4" TOPSOIL LAYER.
- TYPE 5** SODDING - SEE LANDSCAPE NOTE 2, SHT. L-4. DISTURBED AREAS TO BE SODDED PER SPECIFICATIONS ON 4" TOPSOIL LAYER. LIMITS OF SOD IN ADDITION SOD ALL SLOPES 3% OR GREATER, EXCEPT AROUND THE WETLAND MITIGATION AREA.
- TYPE 6** SEEDING - SEEDING MIX FOR WETLAND MITIGATION AREA. SEE SHEET L-3. SEE SPECIFICATIONS FOR EXECUTION, ETC.

THE CONTRACTOR IS TO VISIT THE SITE IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND TO EVALUATE THE EXTENT OF THE SITES WORK. AFTER THE CONTRACT IS AWARDED, SUBMIT A PROGRAM FOR VEGETATIVE TREATMENT.

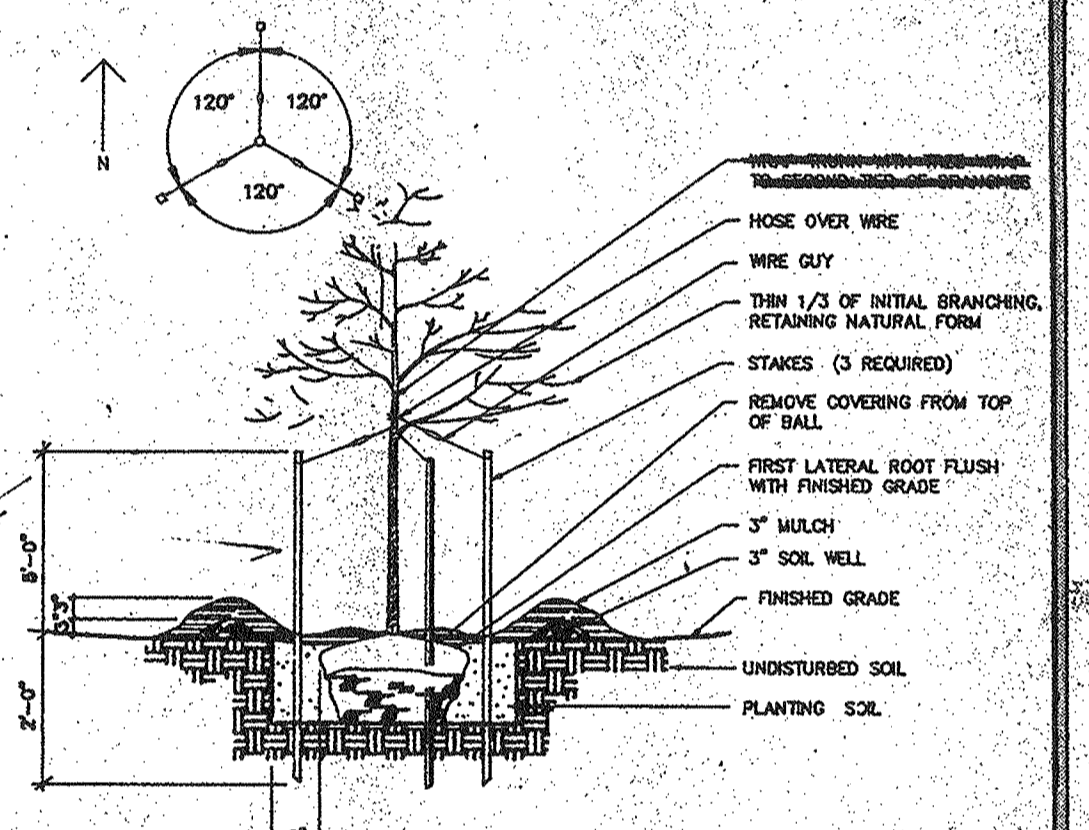
WITHIN THE AREAS THAT ARE ON-SITE BUT OUTSIDE THE LIMITS OF GRADING, SEED ANY AREAS THAT ARE DISTURBED BY CONSTRUCTION. SEED ALL AREAS WITHIN THE STREET R/W DISTURBED BY CONSTRUCTION, PER SPECIFICATION.



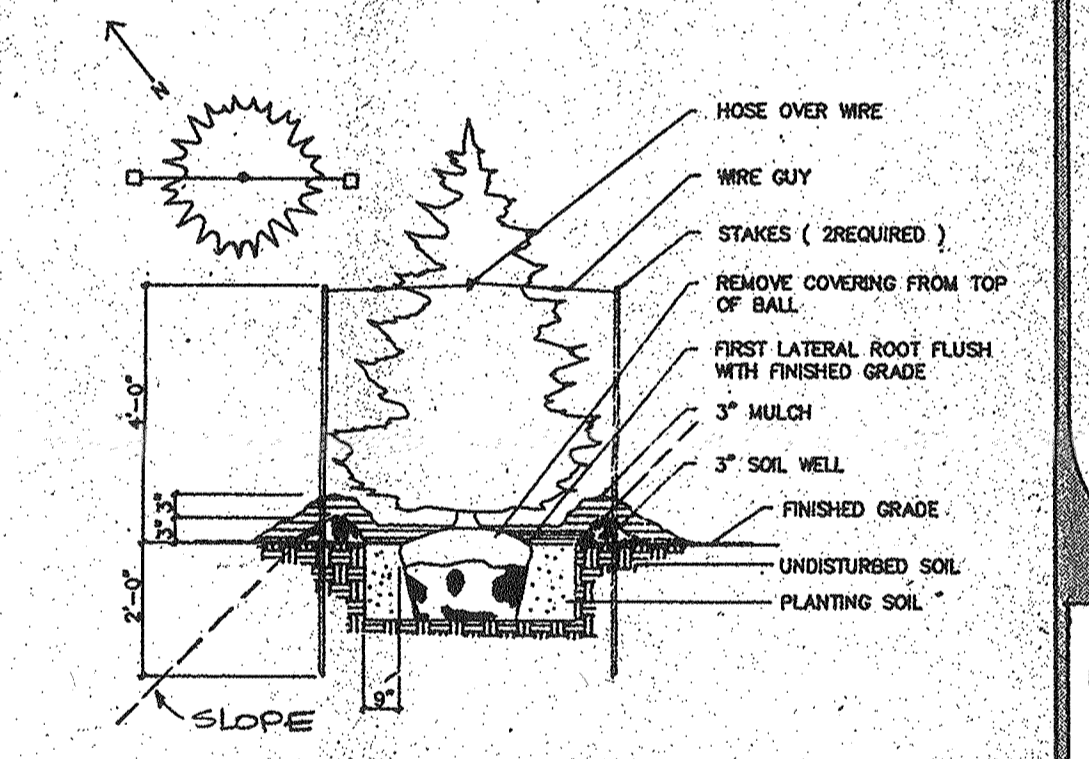
VICINITY MAP  
SCALE: 1" = 2000'



SHRUBS



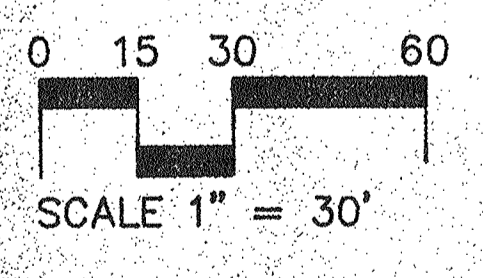
DECIDUOUS TREES



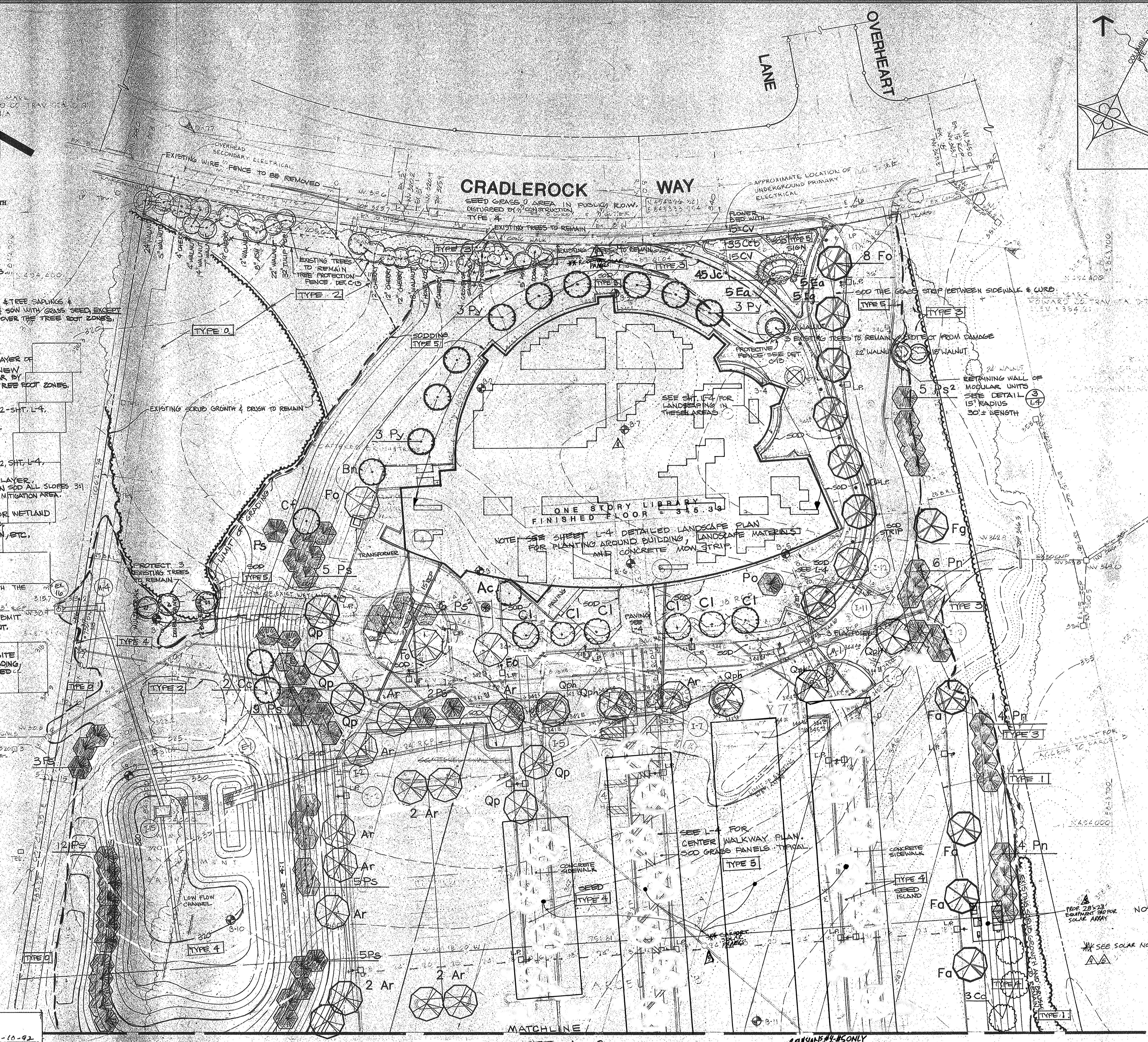
EVERGREEN TREES

PLANTING DETAILS

NO SCALE  
NOTE: SEE SHEET L-3 FOR PLANT LIST - INCLUDING ABBREVIATIONS.



SCALE 1" = 30'



**CRADLEROCK WAY**

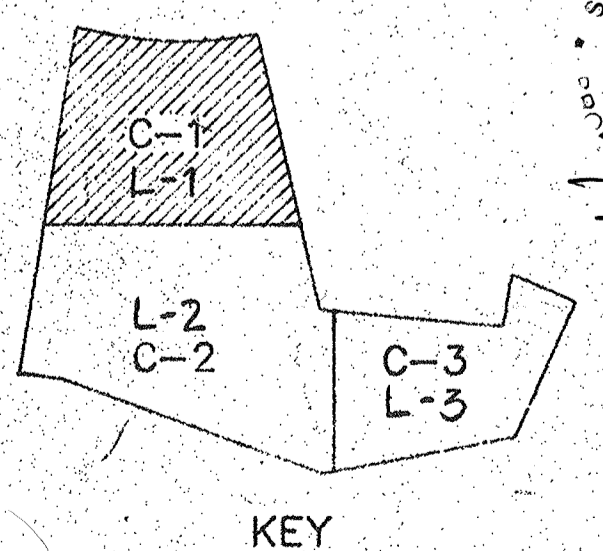
ONE STORY LIBRARY  
FINISHED FLOOR = 345.34

NOTE: SEE SHEET L-4 DETAILED LANDSCAPE PLAN FOR PLANTING AROUND BUILDING, LANDSCAPE MATERIALS AND CONCRETE MON STRIP

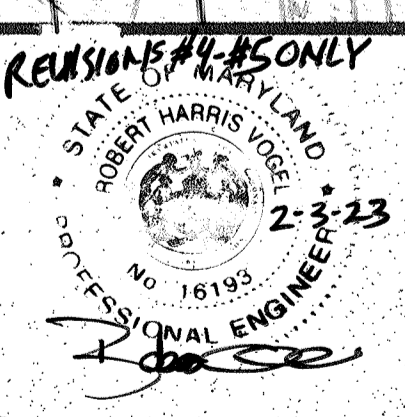
MATCHLINE  
SHEET L-2

**LEGEND**

- EVER GREEN TREES - NEW
- DECIDUOUS - NEW
- FLOWERING TREES
- SHRUBS - NEW
- EXISTING TREES TO REMAIN
- EXISTING SPECIMEN TREES TO BE REMOVED
- BOLLARD LIGHT
- LIGHT POLE
- TYPE 1 TYPE OF VEGETATIVE TREATMENT. SEE ABOVE
- 10Jc PLANT QUANTITY AND ABBREV. SEE L-3



KEY



NO.	REVISION	DATE
5	ADD OVERHEAD CARPORT SOLAR PANELS AND REVISE LANDSCAPE	2-3-23
4	ADD ROOFTOP SOLAR PANELS TO EXISTING BUILDING	12-6-21

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
	6600 CRADLEROCK WAY

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
VILLAGE OF OWEN BROWN	1/4	A & B
PLAT # OR L/F BLOCK #	ZONE	TAX/ZONE MAP/ELEC. DIST./GENUS TR.
21	#36	6
WATER CODE	OPEN SPACE	SEWER CODE

**SITE & GRADING PLAN  
EAST COLUMBIA LIBRARY**

VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A&B  
ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0908  
DATE: OCTOBER 15, 1991 40ALB 1"=20'  
SHEET 16 OF 19

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 2-10-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
DATE: 2/12/92

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 2-6-92

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
DATE: 2/12/92

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES  
DATE: 2-6-92

APPROVED: HOWARD COUNTY LIBRARY  
DATE: 2-6-92

APPROVED  
PLANNING BOARD  
of HOWARD COUNTY  
DATE: 2-6-92

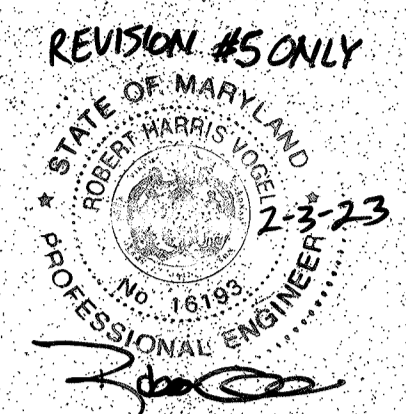
**GRIMM & PARKER ARCHITECTS**  
4061 POWDERMILL ROAD SUITE 401  
CALVERTON, MARYLAND 20705 595-1000

**LANDSCAPE PLAN AND DETAILS  
EAST COLUMBIA LIBRARY**  
HOWARD COUNTY MARYLAND

L-1



MATCHLINE SHEET L-1



VILLAGE OF OWEN BROWN SECTION I AREA 1 ZONED-NEW TOWN

LOT B-75 VILLAGE OF OWEN BROWN ZONED-NEW TOWN

LOT G6 VILLAGE OF OWEN BROWN SECTION I AREA 1 ZONED-NEW TOWN

D-75 BENCH MARK HOWARD CO. TRAV 67A D-75 ELEV. = 366.74

EXISTING ASPHALT PATH



GRIMM & PARKER ARCHITECTS  
4061 POWDERMILL ROAD SUITE 401  
CALVERTON, MARYLAND 20705 595-1000

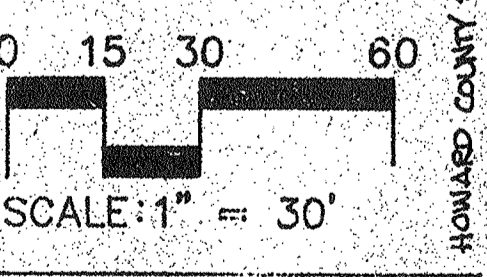


LANDSCAPE PLAN  
EAST COLUMBIA LIBRARY  
HOWARD COUNTY MARYLAND

L-2



- NOTES:
- SEE SHEET L-1 FOR LEGEND
  - SEE SHEET L-3 FOR PLANT LIST INCLUDING THE ABBREVIATIONS.
  - SEE NOTE 20, SHEET C-1 "REMOVE ALL SCATTERED TREES AND SHRUBS WITHIN THE LIMITS OF DISTURBANCE, NOT OTHERWISE NOTED TO BE SAVED."



SITE & GRADING PLAN  
EAST COLUMBIA LIBRARY

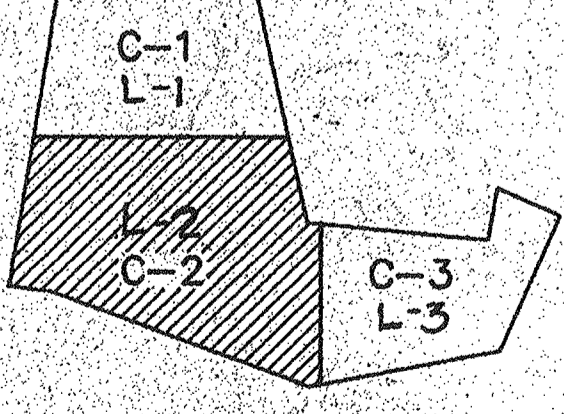
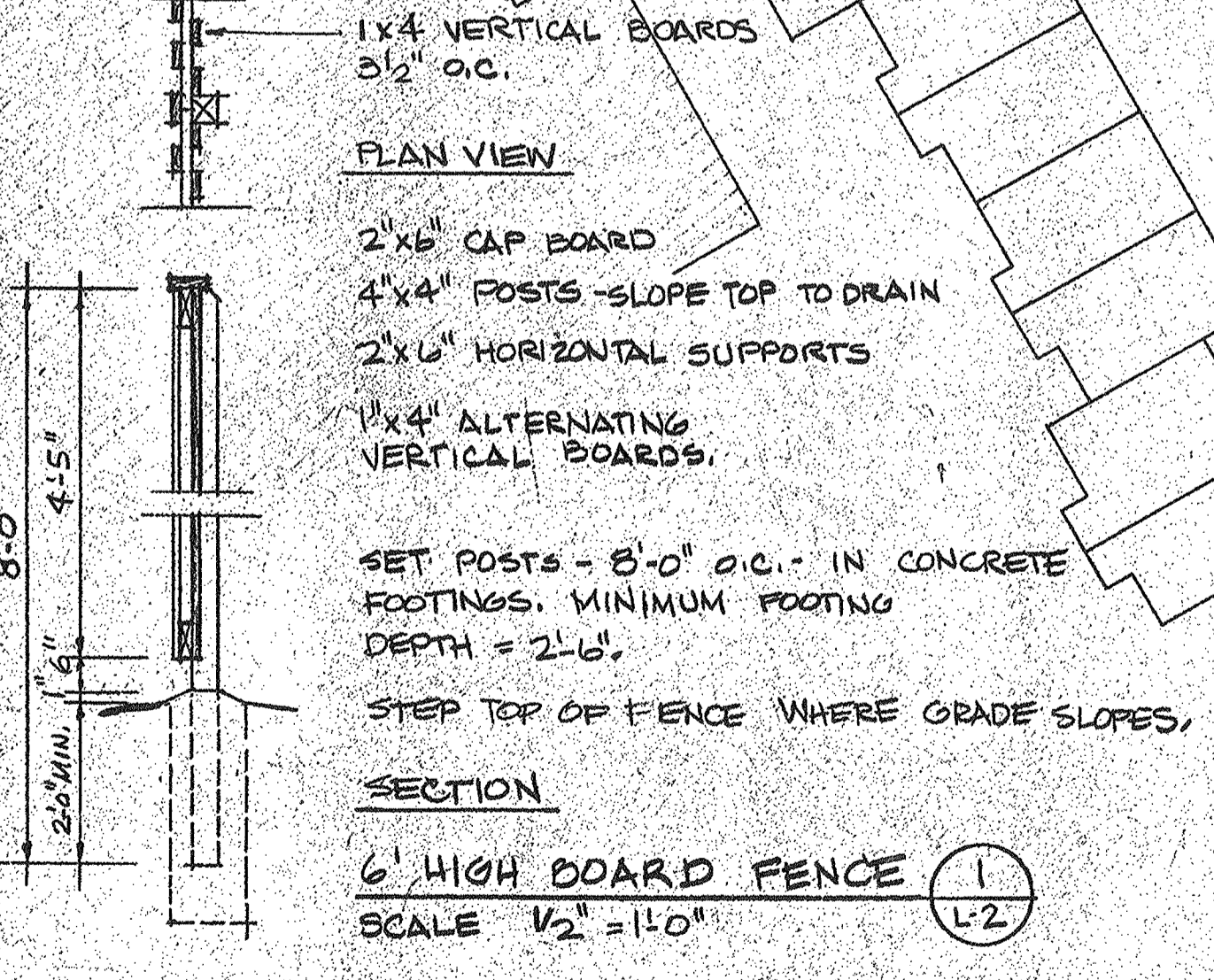
VILLAGE OF OWEN BROWN SECTION I AREA 4 PARCELS A4D ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND TAX MAP # 89  
OWNER THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATIENT PARKWAY, COLUMBIA, MARYLAND 21044 CAPITAL PROJECT L-0006  
DATE: OCTOBER 15, 1991 SCALE: 1" = 30' SHEET 17 OF 19

BENCH MARK HOWARD CO. TRAV 67A D-74 ELEV. 342.97

THIS PLAN FOR LANDSCAPE WORK ONLY SHEET 2 OF 4

NO.	DESCRIPTION	DATE
15	ADD OVERHEAD CANOPY SHADE PANELS AND FENCE LANDSCAPING	2-3-23
16	REVISION	
APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS		
CHIEF, BUREAU OF BUILDINGS AND GROUNDS	DATE	
APPROVED: HOWARD COUNTY BUREAU OF UTILITIES		
CHIEF, BUREAU OF UTILITIES	DATE	2-6-92
APPROVED: HOWARD COUNTY LIBRARY		
DIRECTOR	DATE	2-6-92
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT		
COUNTY HEALTH OFFICER	DATE	2-10-92
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING		
PLANNING DIRECTOR	DATE	2/12/92
APPROVED: HOWARD COUNTY DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT		
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT	DATE	2/12/92
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
DIRECTOR	DATE	2-12-92
CHIEF, BUREAU OF ENGINEERING	DATE	

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 2-1-92  
dks



KEY

**SEED MIX FOR WETLAND MITIGATION AREA TYPE 6**

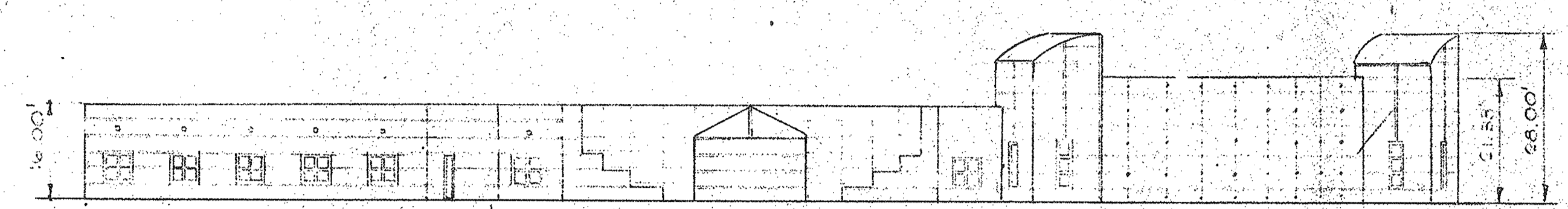
LOLIUM MULTIFLORUM - ANNUAL ITALIAN RYE GRASS ..... 15#/AC.  
 DICHTANTHELIUM CLANDESTINUM - PERENNIAL DEER TONGUE ..... 6#/AC.  
 PANICUM VIRGATUM - PERENNIAL SWITCH GRASS ..... 6#/AC.  
 CALAMAGROSTIS CANADENSIS - PERENNIAL BLUE JOINT ..... 1#/AC.  
 JUNCUS EFFUSUS - PERENNIAL SOFT RUSH ..... 1#/AC.  
 SCIRPUS CYPERINUS - PERENNIAL WOOL GRASS ..... 1#/AC.

TO BE SEEDED PER SPECIFICATION ON 4" LAYER OF TOPSOIL.  
 SEE SPECIFICATIONS FOR PLANTING DATES.  
 DO NOT MOW WETLAND MITIGATION AREA OR SURROUNDING SLOPE.

**PLANT LIST FOR WETLAND MITIGATION AREA**

ABBR.	QUANT.	BOTANICAL AND COMMON NAME	SIZE	REMARKS
An	10	ACER NEGUNDO - BOXELDER	2'-3" HT.	10' O.C.
Ar	12	ACER RUBRUM - RED MAPLE	2'-3" HT.	10' O.C.
Lt	10	LIRIODENDRON TULIPIFERA - TULIP TREE	2'-3" HT.	10' O.C.
Ns	2	NYSSA SYLVATICA - SOUR GUM	2'-3" HT.	10' O.C.
Ps	3	PRUNUS SEROTINA - BLACK CHERRY	2'-3" HT.	10' O.C.
Sn	20	SALIX NIGRA - BLACK WILLOW	2'-3" HT.	10' O.C.
To	8	ILEX OPACA - AMERICAN HOLLY	2'-3" HT.	8' O.C.
Mv	5	MAGNOLIA VIRGINIANA - SWEETBAY MAGNOLIA	2'-3" HT.	10' O.C.
Tc	10	TSUGA CANADENSIS - EASTERN HEMLOCK	2'-3" HT.	10' O.C.
Ca	20	CLETHRA ALNIFOLIA - SWEET PEPPERBUSH	18"-24" HT.	4' O.C.
Cd	12	CORNUS AMOMIUM - SILKY DOGWOOD	18"-24" HT.	5' O.C.
Ig	12	ILEX GLABRA - INKBERRY	18"-24" HT.	5' O.C.
Lb	10	LINDERA BENZON - SEEBUSH	18"-24" HT.	5' O.C.
Rp	15	ROSA PALUSTRIS - SWAMP ROSE	18"-24" HT.	4' O.C.
Vc	20	VACCINIUM COEUMBOSUM - HIGH BUSH BLUEBERRY	18"-24" HT.	4' O.C.
Vd	10	VIBURNUM DENTATUM - SOUTHERN ARROW-WOOD	18"-24" HT.	4' O.C.
Vv	3	VITIS VULPINA - WINTER GRAPE	2' GAL.	PLANTS TO BE CONTAINER GROWN. THIS ABOVE SPACING IS APPROX. ALL PLANTS TO BE IN SIZES BUT NOT IN RESIDENTIAL SIZES.

PLANT THE TREES AND SHRUBS IN STARTER BLOCKS TO FACILITATE MAINTENANCE.  
 MATCH PLANTING BEDS CONTINUOUSLY BETWEEN PLANTS IN THE BLOCKS.  
 SEE SPECIFICATIONS FOR PLANTING DATES.



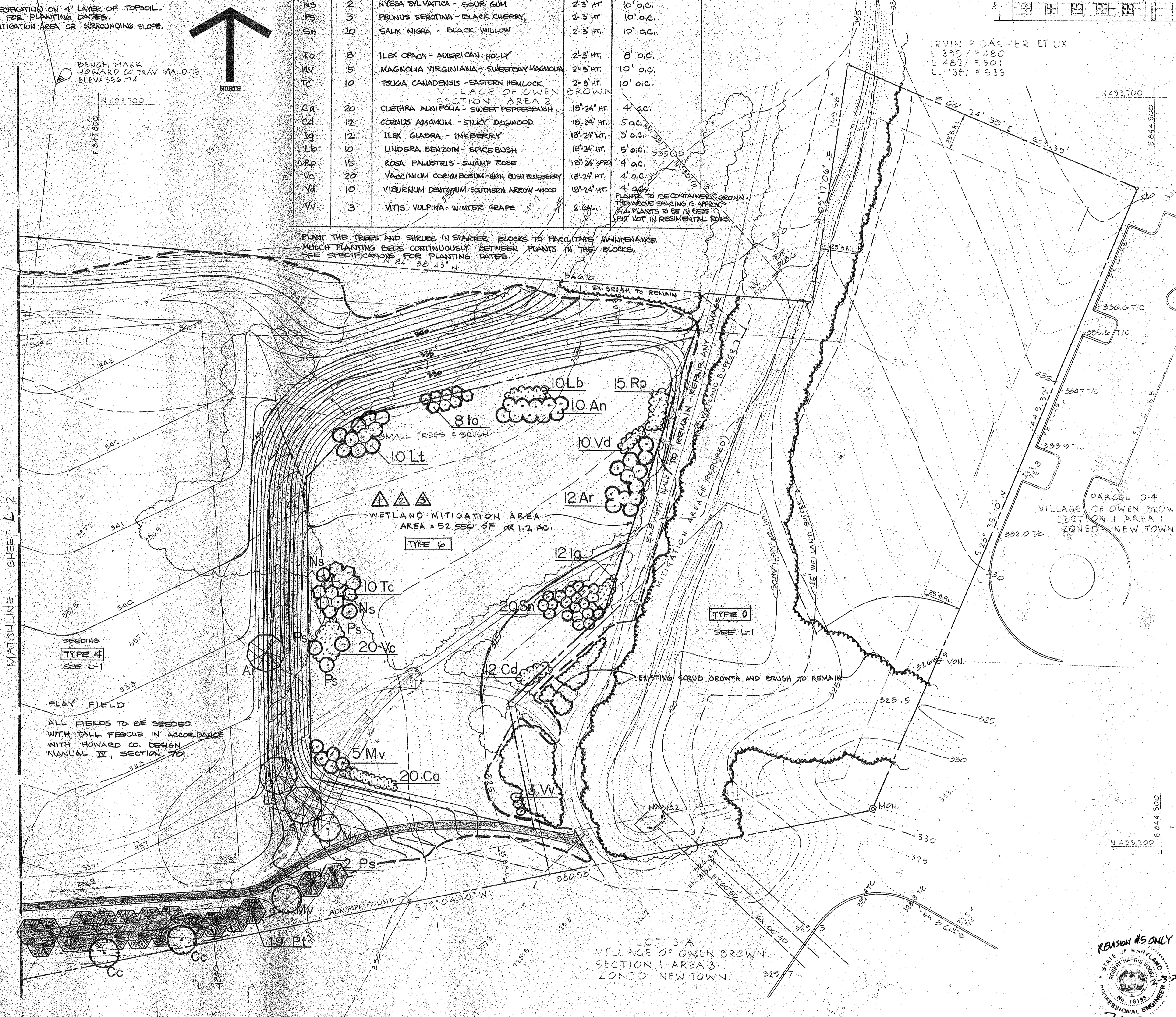
\* NOTE: THE CHERRY TREES AND THE YELLOW WOOD TREES ARE TO BE INSPECTED AND APPROVED BY THE ARCHITECT BEFORE THEY ARE DELIVERED TO THE SITE.

**PLANT SCHEDULE** SEE PLANT LIST FOR WETLANDS ON THIS SHEET

ABBR.	QUANT.	BOTANICAL & COMMON NAME	SIZE	REMARKS
Ar	26	Acer rubrum Red Maple 'Red sunset'	2 1/2"-3" Caliper	Balled and Burlapped
Ac	1	Amelanchier canadensis Shad Bush	8'-10' HT.	B&B Multi Trunk
Bn	1	Betula nigra River Birch	8'-10' HT.	Balled and Burlapped
Cc	16	Cercis canadensis Eastern Redbud	8'-10' HT.	Balled and Burlapped
Cf	1	Cornus florida White Dogwood	2 1/2"-3" Caliper	Balled and Burlapped Uniform Size
Fg	1	Fagus grandiflora American Beech	6'-7' HT.	Balled and Burlapped
Fa	12	Fraxinus pensylvanica Marshall's Seedless Green Ash	2 1/2"-3" Caliper	Balled and Burlapped
Fo	11	Fraxinus ornus Flowering Ash	2 1/2"-3" Caliper	Balled and Burlapped
Hv	2	Hamamelis virginiana Witch Hazel	3'-4' HT.	Balled and Burlapped
Ls	4	Liquidambar styraciflua Sweetgum	2 1/2"-3" Caliper	Balled and Burlapped
Mv	2	Magnolia virginiana Sweetbay Magnolia	6'-7' HT.	Balled and Burlapped
Ns	2	Nyssa sylvatica Sour Gum	2"-2 1/2" Caliper	Balled and Burlapped
Pab	8	Platanus acerifolia 'Bloodgood' London Planetree 'Bloodgood'	2 1/2"-3" Caliper	Balled and Burlapped
Qp	5	Quercus phellos Willow Oak	2 1/2"-3" Caliper	Balled and Burlapped
Pn	21	Pinus thunbergii Japanese Black Pine	4'-5' HT.	Balled and Burlapped
Po	1	Picea omorika Serbian Spruce	5'-6' HT.	Balled and Burlapped
Ps	140	Pinus strobus White Pine	5'-6' HT.	Balled and Burlapped Not Sheared
Ps2	11	Pinus strobus White Pine	8'-10' HT.	Balled and Burlapped Natural Not Sheared
Pt	35	Pinus taeda Loblolly Pine	5'-6' HT.	Balled and Burlapped
Ea	82	Euonymus alatus compactus Burning Bush - Dwarf	24"-30" HT.	Container 3" O.C.
Hp	1	Hydrangea petiolaris Climbing Hydrangea	3 Gal.	Container
Ig	24	Ilex glabra Inkberry	18"-24" HT.	Container
Iv	5	Ilex verticillata Winterberry	4'-5' HT.	Container
Ix	1	Ilex x 'Nellie R. Stevens' Holly	4'-5' HT.	Container
Jc	164	Juniperus conferta Shore Juniper	3 Gal.	Container 2 1/2" O.C.
Kl	3	Kalmia latifolia Mountain Laurel	24"-30" HT.	Container
Lf	61	Leucothoe fontanesiana Drooping Leucothoe	24"-30" Sprd.	Container 3" O.C.
Rs	4	Rhododendron smirnowii Smirnow Rhododendron	24"-30" HT.	Container
Rv	4	Rhododendron vaseyi Pinkshell Azalea	24"-30" HT.	Container
Sv	3	Spiraea x vanhouttei Vanhouttei Spiraea	3 Gal.	Container
Tb	106	Taxus baccata 'Repandens' English Yew	15"-18" Sprd.	Container 2 1/2" O.C.
Cl	6	Cladonia lutea Yellow Wood	2 1/2"-3" Caliper	B & B Uniform Size
Ms	4	Miscanthus sinensis 'Gracillimus' Maiden Grass	5 Gal.	Container
Op	330	Ophiopogon Mondo Grass	1 Qt.	Container 8" O.C.
Pa	4	Pennisetum alopecuroides Fountain Grass	5 Gal.	Container
Sn	6	Sinarundinaria nitida Clump Bamboo	3 Gal.	Container
Vm	520	Vinca minor Periwinkle	2 Yr. Plants	Pot Pots 8" O.C.
Jv	95	Juniperus virginiana Red Cedar	4'-5' HT.	B & B 10' O.C.
Py	9	Prunus serrula Paperbark Cherry	3 1/2"-4" cal.	B & B Uniform size.
CV	30	Cortopsis verticillata 'Moonbeam' Tickseed	1 quart cont.	
Ocb	35	Campanula Carpatica 'Blue Chips' Bellflower	1 quart cont.	
Qph	5	Quercus phellos 'QPSTJ' Ascender Willow Oak (2 1/2" caliper)		

**SITE & GRADING PLAN EAST COLUMBIA LIBRARY**

VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A1B  
 ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND  
 TAX MAP # 3.0  
 OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
 CAPITAL PROJECT L-0008  
 DATE: OCTOBER 15, 1991 66ALB 11-38 SHEET 15 OF 19



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: 2-10-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 DATE: 2/12/92

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS,  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 2-6-92

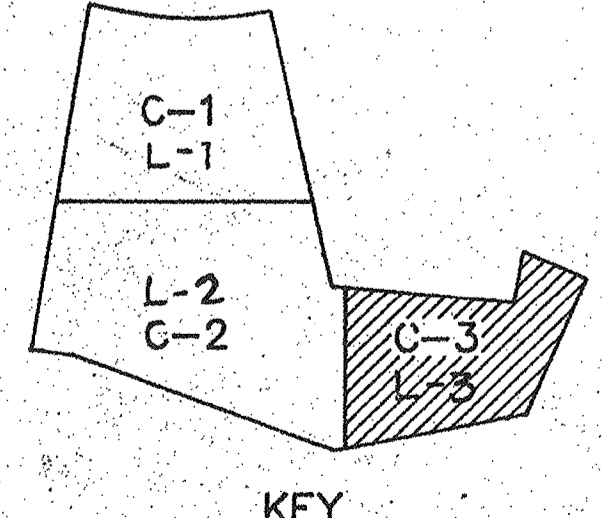
APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
 DATE: 2-6-92

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES  
 DATE: 2-6-92

APPROVED: HOWARD COUNTY LIBRARY  
 DATE: 2-6-92

APPROVED: PLANNING BOARD OF HOWARD COUNTY  
 DATE: 2-1-92

NO.	DATE	REVISIONS
5	2-3-92	ADD OVERHEAD CABINET SOLAR PANELS AND REVISE LANDSCAPING
3	2-14-92	ADD WETLAND PLANTS TO PLAN & TO PLANT LIST
2	2-14-92	ADD SEEDING MIX FOR WETLAND MIT. AREA
1	2-14-92	REVISE WETLAND MITIGATION AREA GRADES



THIS PLAN FOR LANDSCAPE WORK ONLY. SHEET 3 OF 4



**GRIMM & PARKER ARCHITECTS**  
 4061 POWDERMILL ROAD, SUITE 401  
 CALVERTON, MARYLAND 20705 595-1000

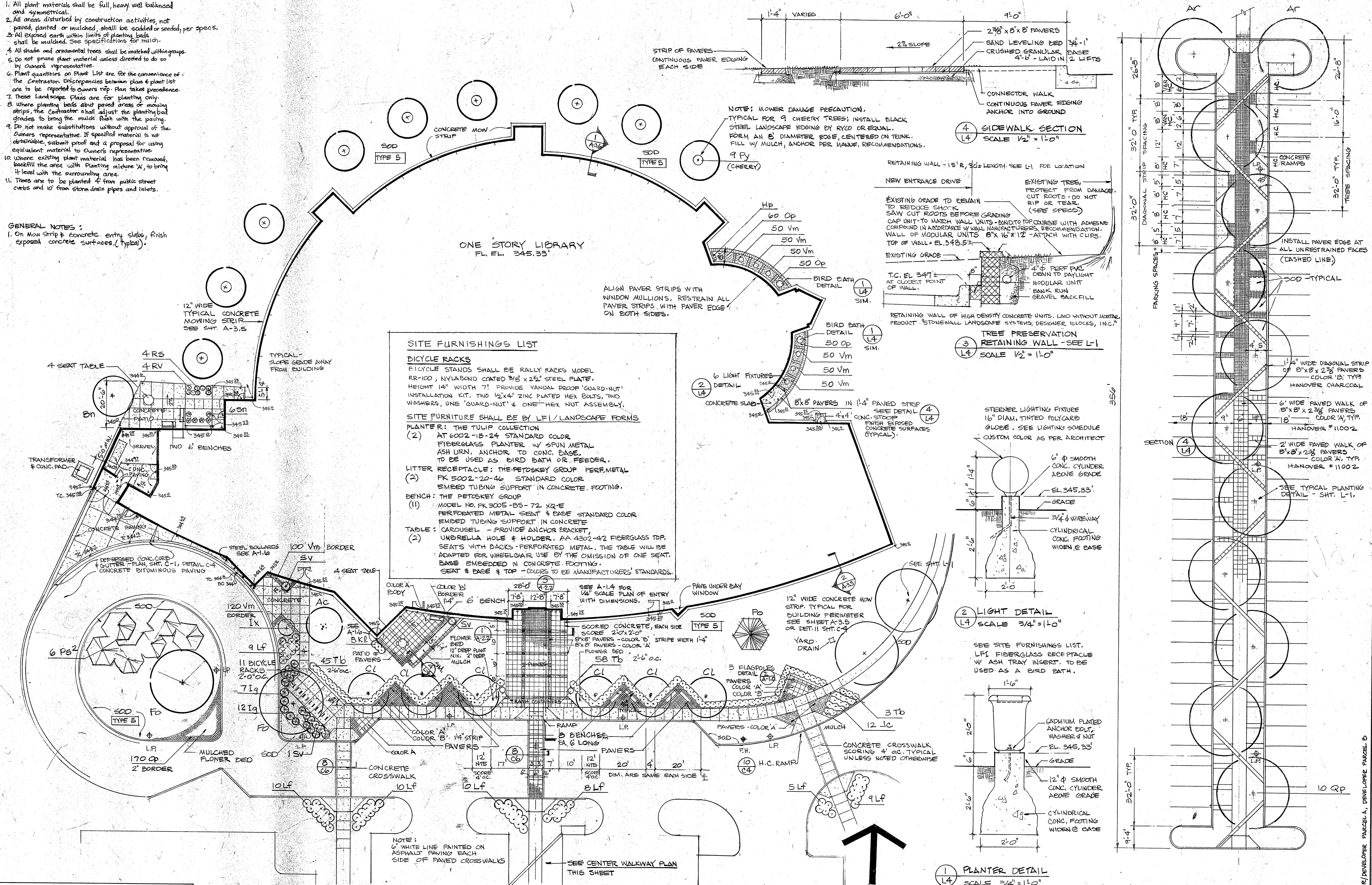
**LANDSCAPE PLAN AND PLANT SCHEDULE**  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY MARYLAND

L-3

**LANDSCAPE NOTES:**

- All plant materials shall be full, heavy well balanced and symmetrical.
- All areas disturbed by construction activities, not paved, planted or mulched, shall be sodded or seeded, per specs.
- All exposed earth within limits of planting beds shall be mulched. See specifications for match.
- All shade and ornamental trees shall be matched with groups.
- Do not prune plant material unless directed to do so by owner's representative.
- Plant quantities on Plant List are for the convenience of the Contractor. Discrepancies between plan & plant list are to be reported to Owners rep. Plan takes precedence.
- These Landscape Plans are for planting only.
- Where planting beds abut paved areas or mowing strips, the Contractor shall adjust the planting bed grades to bring the mulch flush with the paving.
- Do not make substitutions without approval of the Owners representative. If specified material is not obtainable, submit proof and a proposal for using equivalent material to Owners representative.
- Where existing plant material has been removed, backfill the area with planting mixture 'x', to bring it level with the surrounding area.
- Trees are to be planted 4' from public street curbs and 10' from storm drain pipes and inlets.

- GENERAL NOTES:**
- On Mow strip & concrete entry slabs, finish exposed concrete surfaces, (typical).



**SITE FURNISHINGS LIST**

**BICYCLE RACKS**  
 BICYCLE STANDS SHALL BE RALLY RACKS MODEL RR-100; NYLON COATED 3/8" x 2 1/2" STEEL PLATE. HEIGHT 14" WIDTH 7" PROVIDE VANDAL PROOF 'GUARD-NUT' INSTALLATION KIT. TWO 1/2"x4" ZINC PLATED HEX BOLTS, TWO WASHERS, ONE 'GUARD-NUT' & ONE 'HEX NUT' ASSEMBLY.

**SITE FURNITURE SHALL BE BY LFI / LANDSCAPE FORMS**

**PLANTER:** THE TULIP COLLECTION  
 (2) AT 6002-18-24 STANDARD COLOR FIBERGLASS PLANTER w/ SPUN METAL ASH URN, ANCHOR TO CONC. BASE. TO BE USED AS BIRD BATH OR FEEDER.

**LITTER RECEPTACLE:** THE PETOSKEY GROUP PERF. METAL  
 PK 5002-20-46 STANDARD COLOR EMBED TUBING SUPPORT IN CONCRETE FOOTING.

**BENCH:** THE PETOSKEY GROUP  
 (1) MODEL NO. PK 5005-85-72 XQ-E PERFORATED METAL SEAT & BASE STANDARD COLOR EMBED TUBING SUPPORT IN CONCRETE

**TABLE:** CAROUSEL - PROVIDE ANCHOR BRACKET UMBRELLA HOLE & HOLDER, AA 4302-42 FIBERGLASS TOP. SEATS WITH BACKS - PERFORATED METAL. THE TABLE WILL BE ADAPTED FOR WHEELCHAIR USE BY THE OMISSION OF ONE SEAT. BASE EMBEDDED IN CONCRETE FOOTING. SEAT & BASE & TOP - COLORS TO BE MANUFACTURERS' STANDARDS.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: 2-10-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 DATE: 2/12/92

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS,  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 2/6/92

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS  
 DATE: 2-6-92

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES  
 DATE: 2-6-92

APPROVED: HOWARD COUNTY LIBRARY  
 DATE: 2-6-92

APPROVED: PLANNING & ZONING DEPARTMENT OF HOWARD COUNTY  
 DATE: 2-4-92

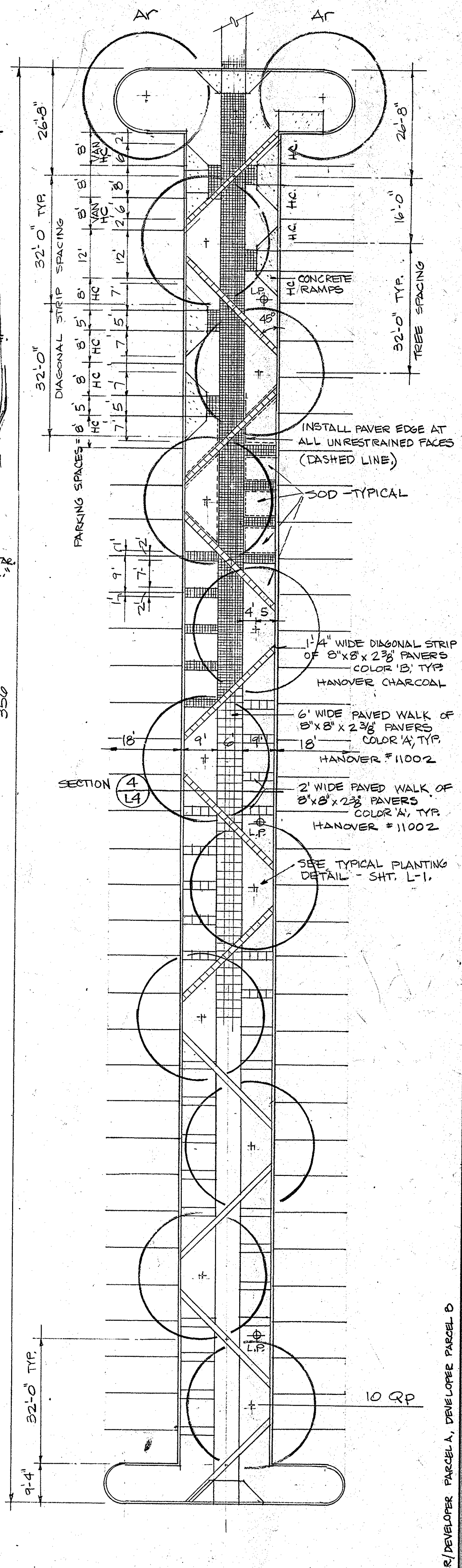
**LEGEND**

- DECIDUOUS SHRUBS
- EVERGREEN SHRUBS
- DECIDUOUS TREES
- EVERGREEN TREES
- GROUND COVER
- CONCRETE
- UNIT PAVERS
- UNIT LIGHT POLE
- VEGETATIVE TYPE SEE NOTES SHT. L-1

**PARTIAL LANDSCAPE PLAN**  
 SCALE 1/16" = 1'-0"

SEE SHEET L-3 FOR PLANT LIST- INCLUDING ABBREVIATIONS.

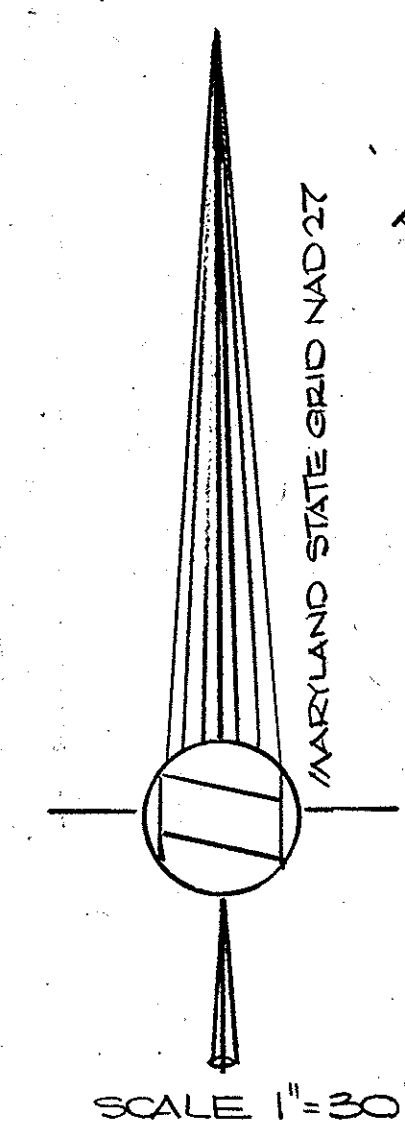
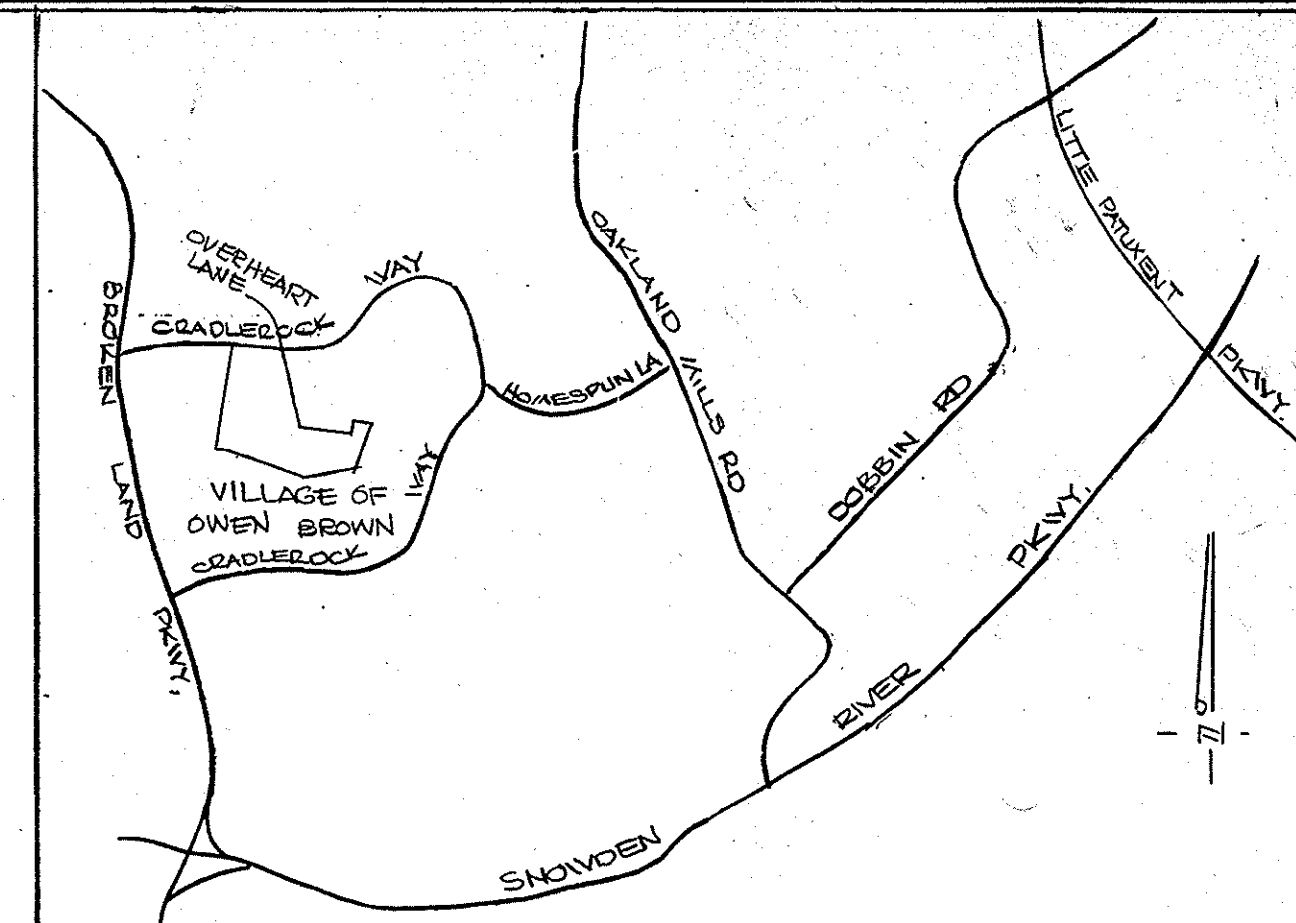
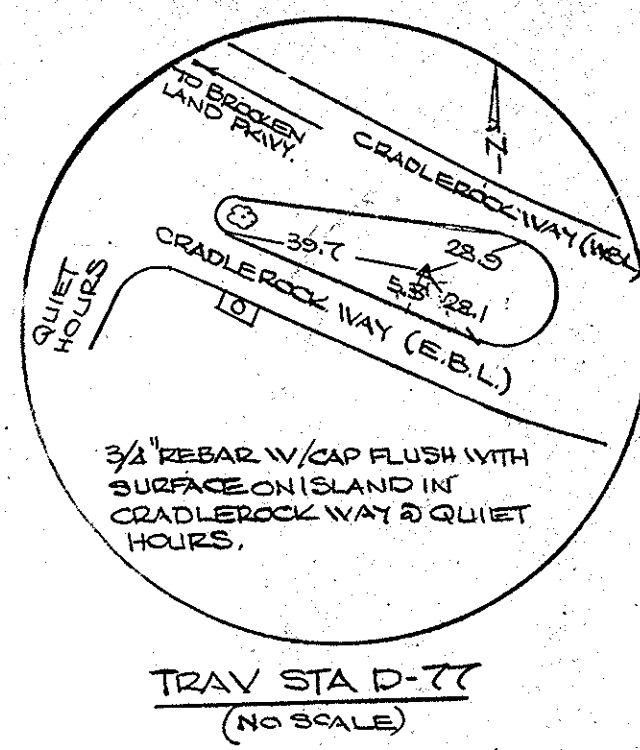
THIS PLAN FOR LANDSCAPE WORK ONLY, SHEET 4 OF 4



**CENTER WALKWAY PLAN**  
 SCALE 1/16" = 1'-0"

**DETAILED LANDSCAPE PLAN**  
**EAST COLUMBIA LIBRARY**  
 VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS AND ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
 OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
 DATE: OCTOBER 15, 1991 SCALE AS SHOWN SHEET 19 OF 19

HOWARD COUNTY: OWNER/DEVELOPER, PARCEL A, DEVELOPER, PARCEL B  
 ARCHITECTS: PLANNERS & ENGINEERS  
 G R I M M A N D P A R K E R  
 4041 POWERS HILL ROAD • SUITE 401 • GAITHERSBURG, MD 20878 • (301) 595-1000 • FAX (301) 595-0089  
 DETAILED LANDSCAPE PLANS  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY, MARYLAND  
**L-4**



**NOTE:**

1. UTILITIES SHOWN OBTAINED FROM FIELD LOCATION OR BEST AVAILABLE RECORDS.
2. VERTICAL & HORIZONTAL CONTROL BY HOWARD COUNTY BUREAU OF ENGINEERING.
3. FIELD TOPOGRAPHY TAKEN APRIL, 1990.

**LEGEND**

- SLOPES: ADDED 10-14-91 BY GRIMM & PARKER
- [Hatched pattern] GREATER THAN 25%
  - [Dotted pattern] 15-24.9%

**EXISTING VEGETATION**

DESCRIPTION	MATURITY	CONDITION	SHT.
* SCATTERED SMALL TREES & BRUSH (OPEN LAND W/ WOODY SCATTERED TREES, BRUSH & GRASS)	IMMATURE	GOOD	T-1 T-2
LOCUST TREE GROVE	MATURE	GOOD	T-2
SMALL TREES & BRUSH	IMMATURE	GOOD	T-3
GRASS	-	GOOD	T-3
SPECIMAN TREES	SEE PLAN FOR SIZE & SPECIES	GOOD	T-1

\* EXISTING VEGETATION DESCRIPTION MODIFIED ON CHART FOR CLARITY. 10-14-91. BY GRIMM & PARKER

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

PLANNING DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF DIVISION OF LAND DEVELOPMENT \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF, BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

N.A.

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS

CHIEF, BUREAU OF BUILDINGS AND GROUNDS \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES

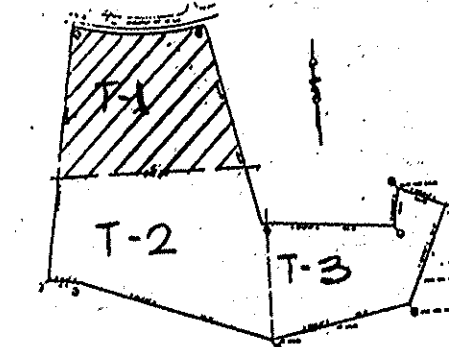
CHIEF, BUREAU OF UTILITIES \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY LIBRARY

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

N.A.

WATCHLINE SHEET T-2



BENCHMARK  
HOWARD CO TRAY D-15  
SEE SHEET T-3 FOR LOCATION

**TOPOGRAPHIC SURVEY**  
**EAST COLUMBIA LIBRARY**

VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS AND ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND

OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0908

DATE: OCTOBER 15, 1991. SCALE 1"=30'

SHEET 1 OF 3

SEYBOLT, GORE, NEWQUIST & BERLINSKY  
CIVIL ENGINEERS & SURVEYORS  
1800 KNOWLES AVENUE  
HENNINGSTON, MARYLAND 20635  
(301) 283-0000

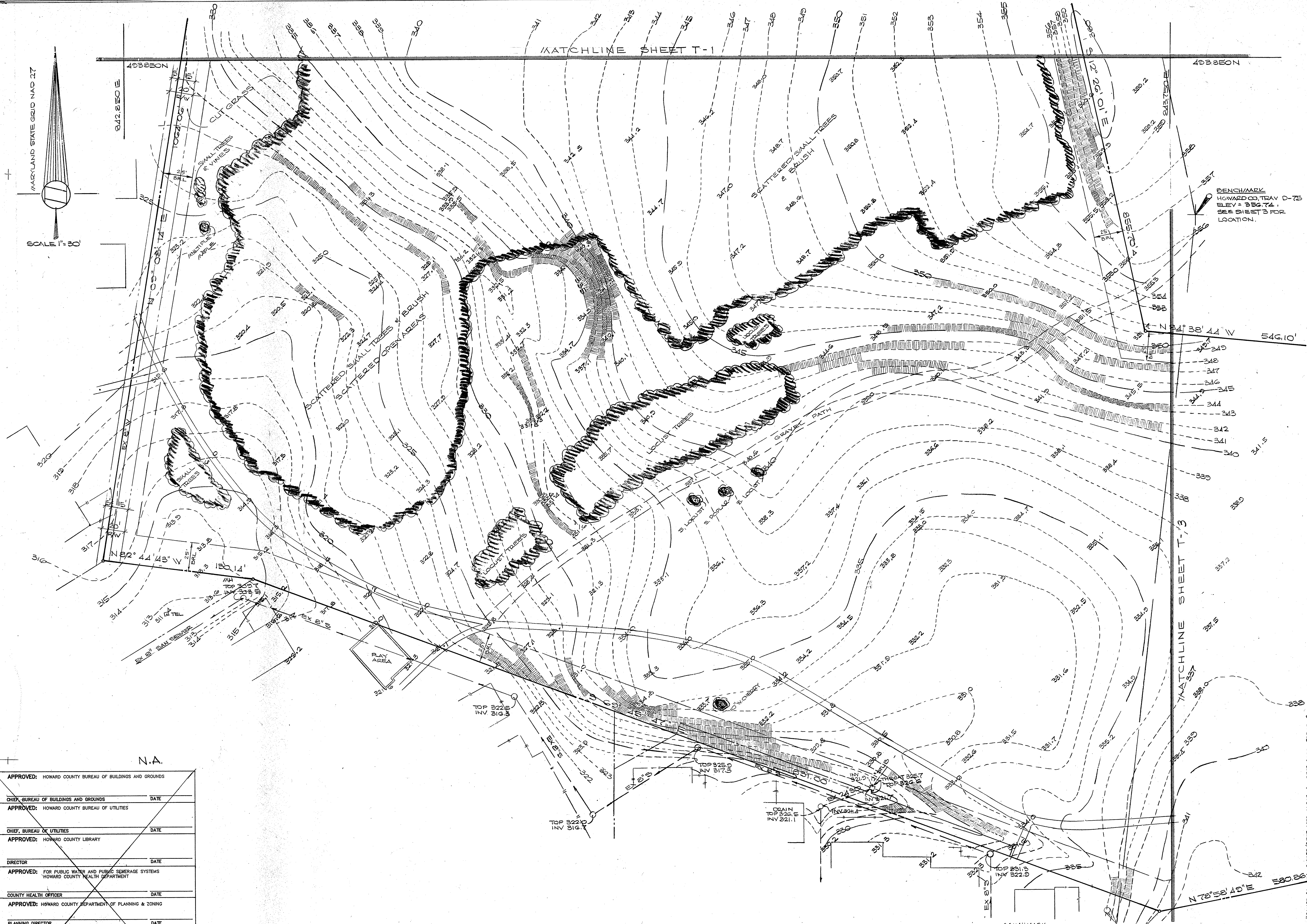
*[Signature]*

**GRIMM & PARKER ARCHITECTS**  
4061 POWDER MILL ROAD SUITE 401  
CALVERTON, MARYLAND 20705 595-1000



TOPOGRAPHIC SURVEY  
**HOWARD COUNTY LIBRARY**  
HOWARD COUNTY, MARYLAND  
APRIL 1990  
SCALE 1"=30'

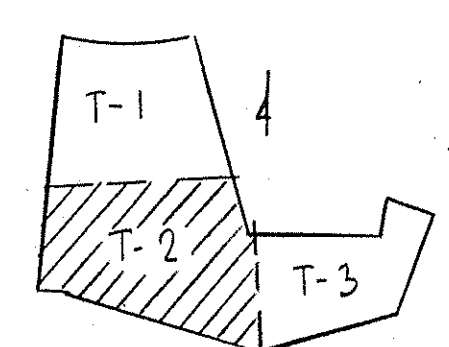
**T-1**



APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS	
CHIEF, BUREAU OF BUILDINGS AND GROUNDS	DATE
APPROVED: HOWARD COUNTY BUREAU OF UTILITIES	
CHIEF, BUREAU OF UTILITIES	DATE
APPROVED: HOWARD COUNTY LIBRARY	
DIRECTOR	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
PLANNING DIRECTOR	DATE
CHIEF DIVISION OF LAND DEVELOPMENT	
DIRECTOR	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
DIRECTOR	DATE
CHIEF, BUREAU OF ENGINEERING	
DIRECTOR	DATE

N.A.

N.A.



BENCHMARK  
HOWARD CO. TRAV. D-74  
SEE SHEET T-3 FOR LOCATION

TOPOGRAPHIC SURVEY  
**EAST COLUMBIA LIBRARY**  
VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PAGES 4 AND  
ELECTION DISTRICT NO. 8, HOWARD COUNTY, MARYLAND  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0008  
DATE: OCTOBER 15, 1991 SCALE: 1" = 30' SHEET 2 OF 3

SEYBOLT, GORE, NEWQUIST & BERLINSKY  
CIVIL ENGINEERS & LAND SURVEYORS  
10000 WASHINGTON AVENUE  
KENSINGTON, MARYLAND 20746  
(301) 948-0000

*[Signature]*

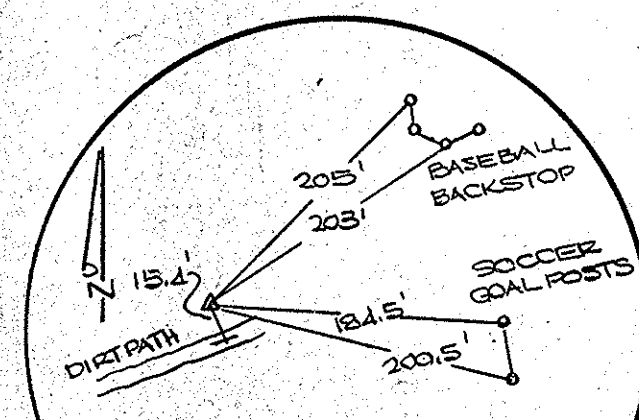
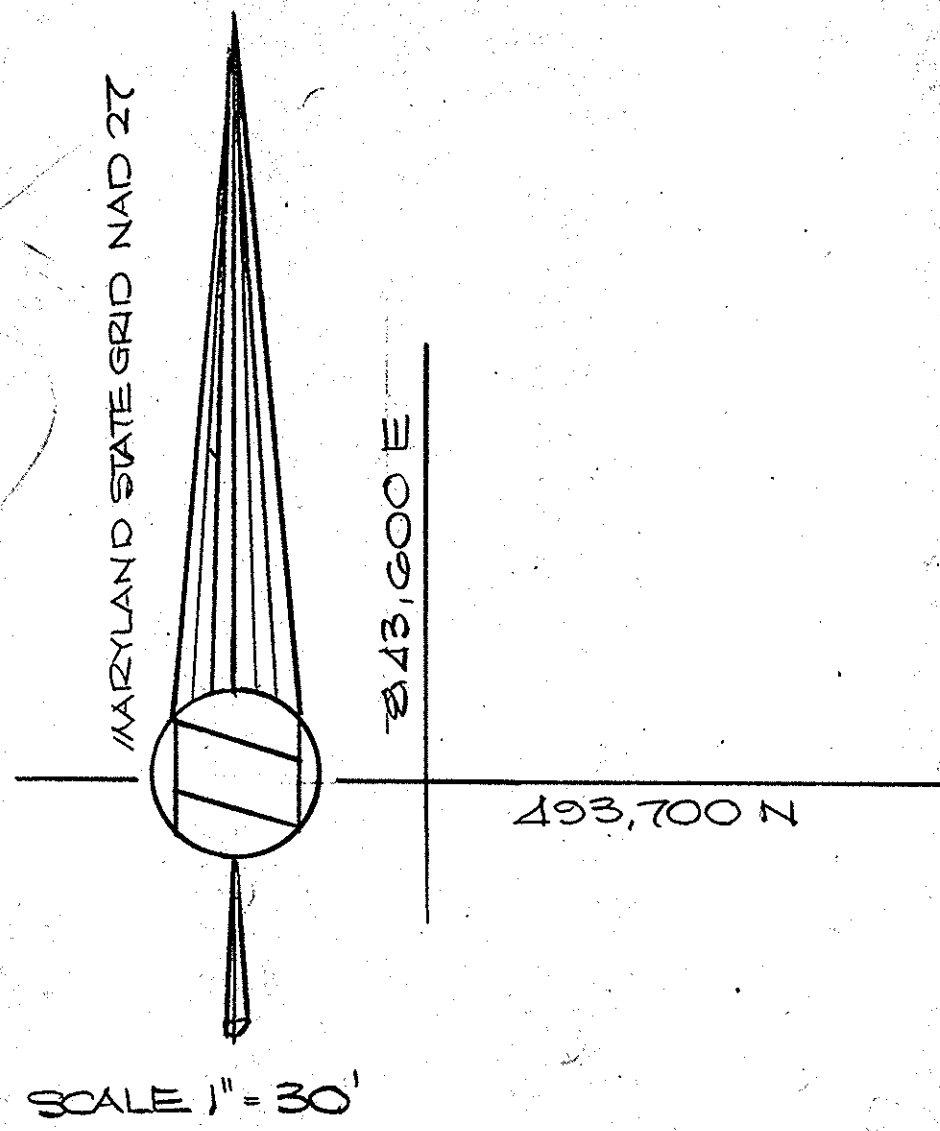
**GRIMM & PARKER ARCHITECTS**  
4061 POWDER MILL ROAD SUITE 401  
CALVERTON, MARYLAND 20705 595-1000



TOPOGRAPHIC SURVEY  
**HOWARD COUNTY LIBRARY**  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' APRIL 1990

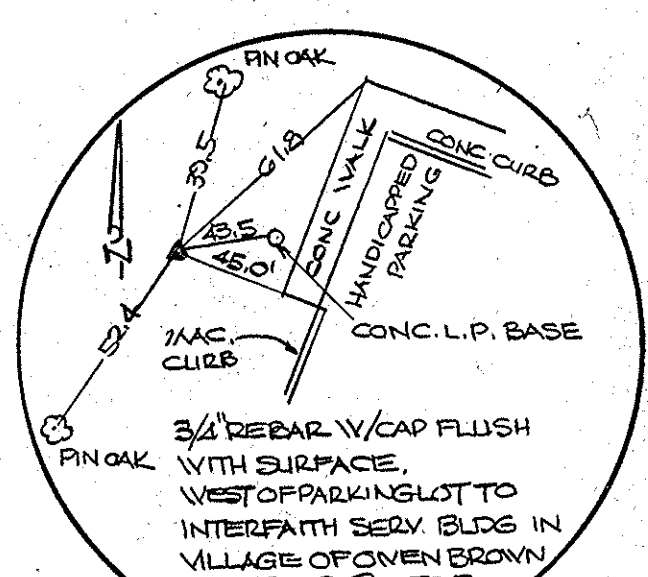
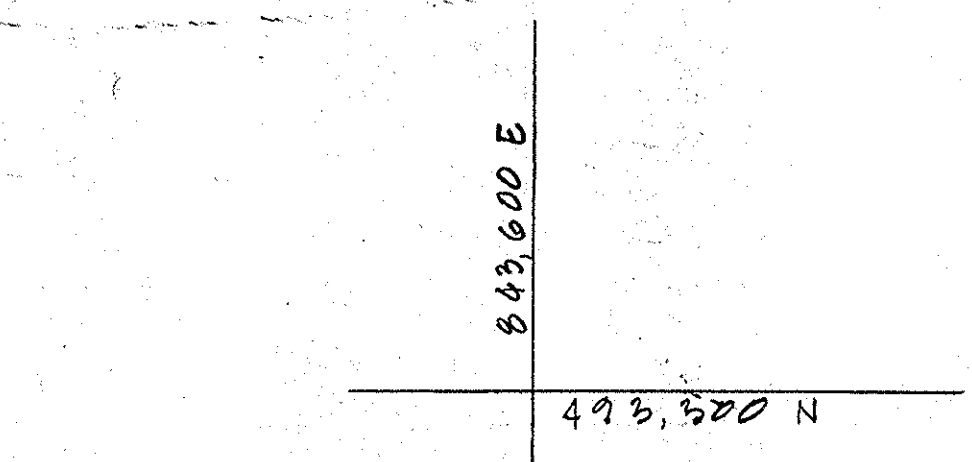
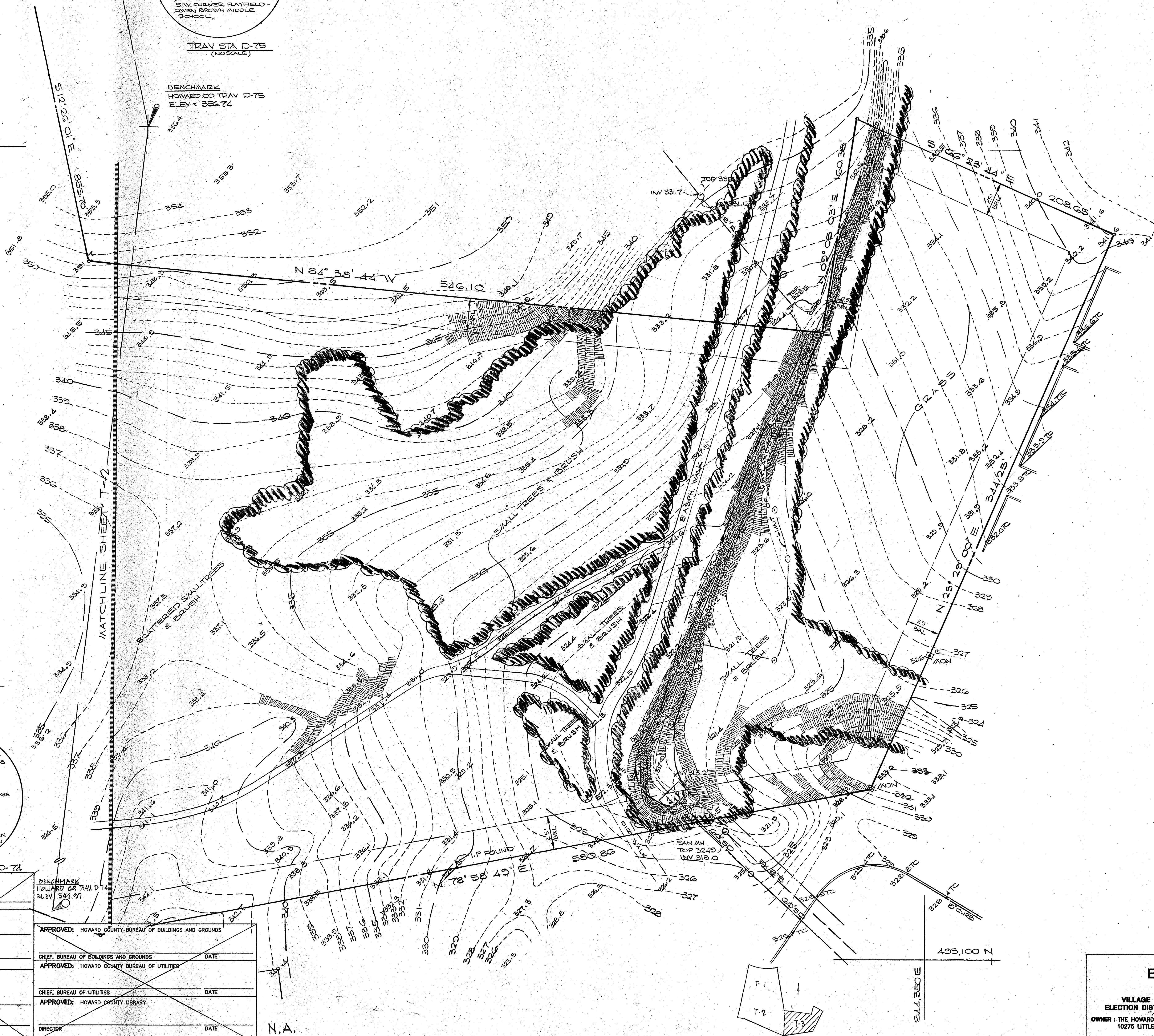
HOWARD COUNTY: OWNER/DEVELOPER PARCEL A, DEVELOPER PARCEL B  
**T-2**





TRAV STA D-75  
(NO SCALE)

BENCHMARK  
HOWARD CO TRAV D-75  
ELEV = 352.74



BENCHMARK  
HOWARD CO TRAV D-74  
ELEV = 329.97

N.A.  
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

PLANNING DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF DIVISION OF LAND DEVELOPMENT \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND ROADS,  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF, BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS

CHIEF, BUREAU OF BUILDINGS AND GROUNDS \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES

CHIEF, BUREAU OF UTILITIES \_\_\_\_\_ DATE \_\_\_\_\_

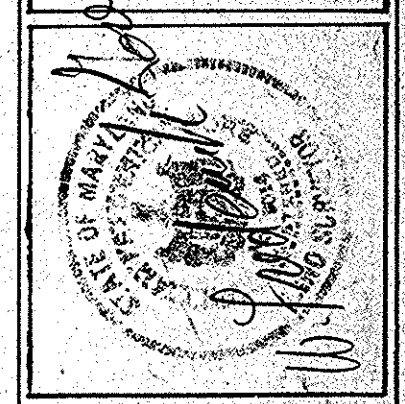
APPROVED: HOWARD COUNTY LIBRARY

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

N.A.

TOPOGRAPHIC SURVEY  
**EAST COLUMBIA LIBRARY**  
VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS AND  
ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND  
OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044  
CAPITAL PROJECT L-0008  
DATE: OCTOBER 15, 1991 SCALE: 1" = 30' SHEET 3 OF 3

HOWARD COUNTY OWNER/DEVELOPER (PARCEL A), DEVELOPER (PARCEL B)



SEYBOLT, GORE, NEWQUIST & BERLINSKY  
CIVIL ENGINEERS & LAND SURVEYORS  
HENNINGTON, MARYLAND 20885  
(301) 946-0000

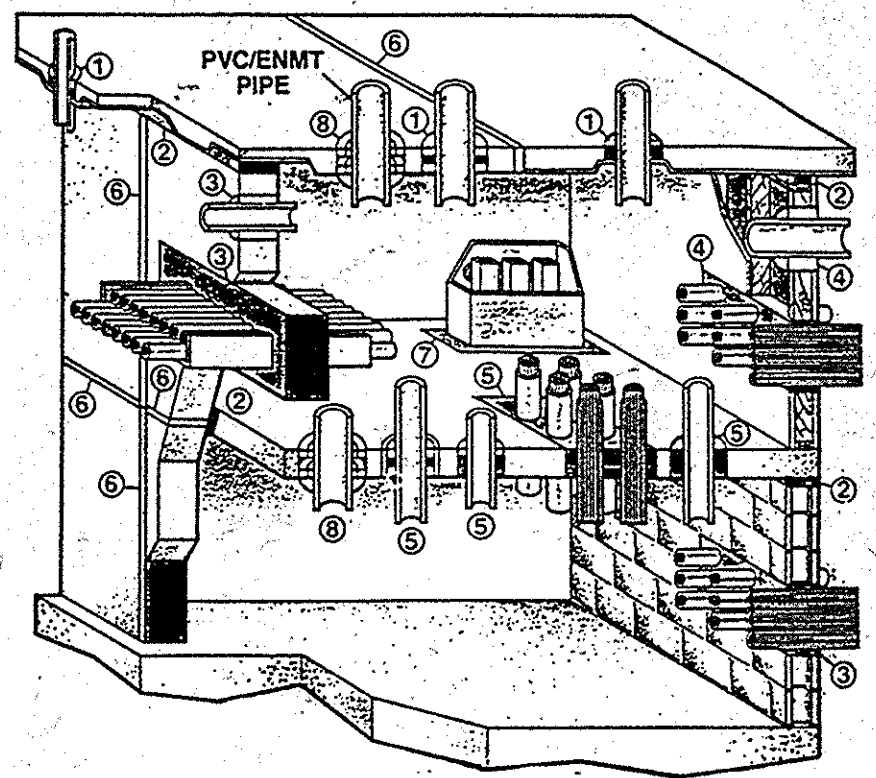
**GRIMM & PARKER ARCHITECTS**  
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CALVERTON, MARYLAND 20705 595-1000

TOPOGRAPHIC SURVEY  
**HOWARD COUNTY LIBRARY**  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' APRIL 1990

T-3

TYPICAL APPLICATION FOR PENETRATIONS THRU WALLS & ROOF OF ROOMS L-113, L-112, & L-110.

- 1 Fire Stop Foam and Sealant systems for metallic pipe and conduit through-penetrations in metal deck.
- 2 Fire Stop Foam and Sealant systems for penetrations thru concrete floors and ceilings.
- 3 Fire Stop Foam and Sealant systems for metallic cabinets, conduits and pipe through concrete and masonry walls.
- 4 Fire Stop Foam and Sealant systems for through-penetrations in fire-rated gypsum board.
- 5 Fire Stop Foam and Sealant systems for metallic pipe and conduit through-penetrations in concrete floors and ceilings.
- 6 Fire Stop Foam and Sealant systems for ceiling floor and wall seismic expansion and isolation joints.
- 7 Fire Stop Foam and Sealant thru duct through-penetrations system.
- 8 Fire Stop Foam and Sealant with Intumescent Wrap Strip as systems for through-penetrations fire and smoke seals for plastic or ENMT pipe or fiberglass-insulated metal pipe.



ICBO APPROVAL SBCCI APPROVAL

FIRE STOP FOAM 2001 FIRE STOP INTUMESCENT WRAP STRIP 2002

FIRE STOP SEALANT 2000 NONCOMBUSTIBLE CERAMIC OR MINERAL WOOL

Factory Mutual Approved

UL LISTED

UL LISTED

UL LISTED

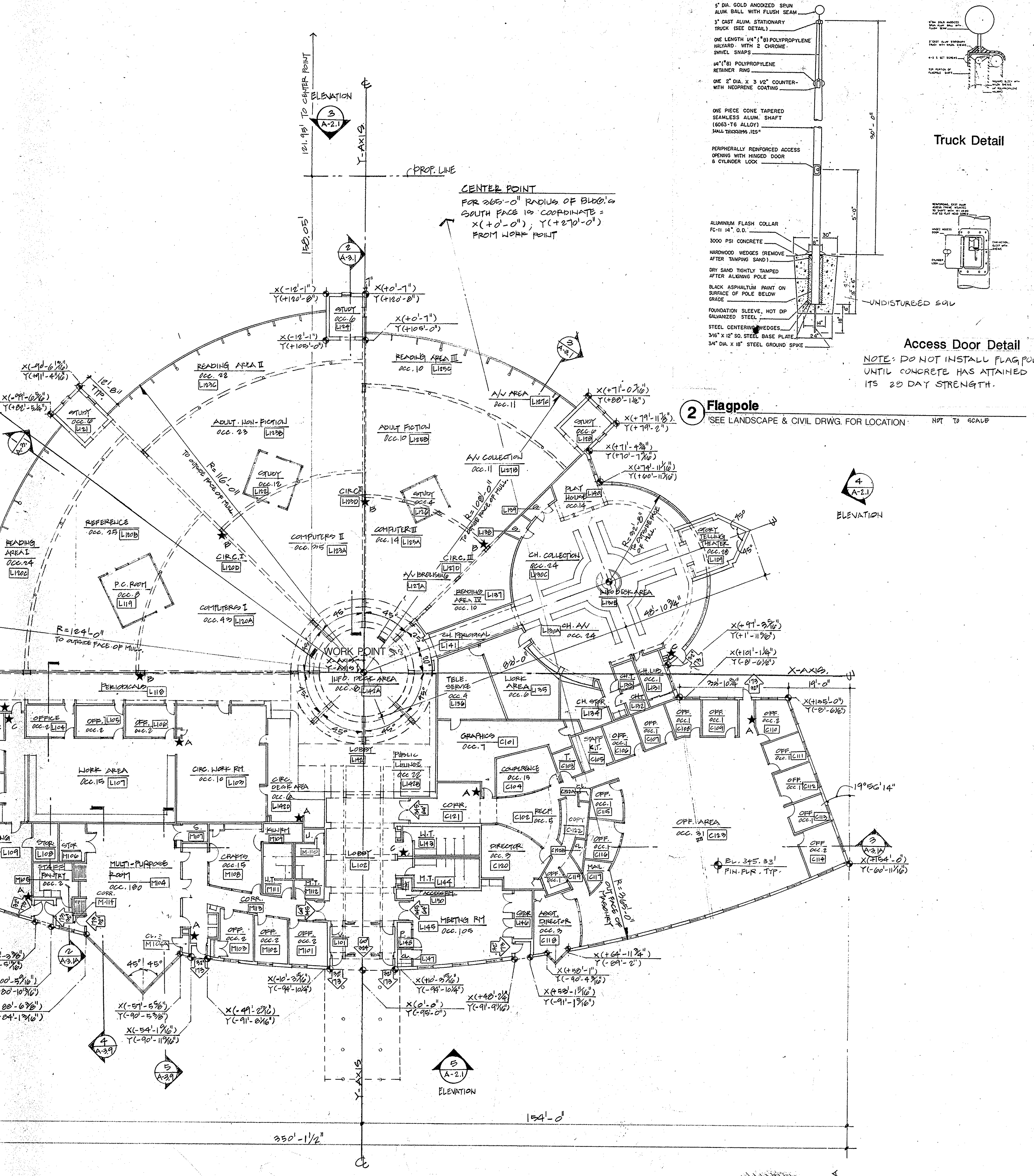
UL LISTED

NOTE: DETAIL SHOWS DOW CORNING FIRE STOP SYSTEMS FOR SMOKE AND THROUGH PENETRATION FIRE SEALS. APPROVED EQUAL SYSTEMS MAY BE SUBSTITUTED.

**WORK POINT LOCATION EAST COLUMBIA LIBRARY**

MD. STATE PLANE COORDINATE  
 N. 494260.579  
 E. 843243.454  
 (REFER TO CIVIL DRAWINGS)

DIST TO PROP. LINE ALONG  
 Ø OF BUILDING = 150.05'



**PROJECT NAME:** EAST COLUMBIA LIBRARY  
 90008.00

**PROJECT LOCATION:** CRADLE ROCK WAY, COLUMBIA, MARYLAND

**APPLICABLE CODES**

**BUILDING CODE:** BOCA BASIC BUILDING CODE  
**YEAR:** 1987  
**LOCAL AMENDMENTS:** NO

**FIRE CODE:** NFPA 101 LIFE SAFETY CODE  
**YEAR:** 1988  
**LOCAL AMENDMENTS:** NO

**BUILDING USE AND CONSTRUCTION CLASSIFICATIONS**

**BOCA REF. LIFE SAFETY REF.**

**USE GROUPS:** A-3, ASSEMBLY 4-1.2, 8-1.3  
 302.0

**PROPOSED TYPE OF CONSTRUCTION:** BOCA TYPE 2-C

**ACTUAL BUILDING HEIGHT:** 28'-0" MAXIMUM

**ALLOWABLE HEIGHT:** 30' + 20' (TABLE 501, 503.1) = 50'

**AREA TABULATION:** USE GROUP A-3 UNLIMITED (SEE BOCA SECTION 504.0)

**BUILDING AREA =** 46,100 (USE GROUP A-3)

**BUILDING FIRE RATINGS**

**FIRE RATING REQUIREMENTS OF STRUCTURAL ELEMENTS AND EGRESS COMPONENTS IN HOURS.**

SYSTEM	REQ'D	BOCA CODE REFERENCE	LIFE SAFETY REFERENCE
EXTERIOR BEARING WALLS	0	TABLE 401	---
EXTERIOR NON-BEARING WALLS	0	TABLE 401	---
FLOOR/CEILING ASSEMBLIES	0	TABLE 401	---
ROOF/CEILING ASSEMBLIES	0	TABLE 401	---
COLUMNS	0	TABLE 401	---
WALLS	0	TABLE 401	---
BEAMS	0	TABLE 401	---
GRESS CORRIDORS	1	TABLE 401	8-3.6.1
SHAFTS OTHER THAN STAIRS	1	TABLE 401	915.3

**FIRE PROTECTION SYSTEM REQUIREMENTS**

SYSTEM	REQ'D	BLDG CODE REFERENCE	FIRE CODE REFERENCE
AUTOMATIC SPRINKLERS	YES	504.0 FOR AREA	---
FIRE ALARM SYSTEM	YES	---	8-3.4

**INTERIOR FINISH REQUIREMENTS**

BLDG. CODE	REF.	FIRE CODE	REF.
EXIT ACCESS CORRIDORS	I	TABLE 922.5	A,B 8-3.3.2
ROOMS, ENCLOSED SPACES	II, III	TABLE 922.5	A,B 8-3.3.3
FLOOR FINISHES	II	TABLE 922.7	N.A. 6-5.4

**TRAVEL DISTANCE REQUIREMENTS**

W/OUT A.S.	W/A.S.	BOCA REF.	LIFE SAFETY REF.
BOCA CODE	200'	250'	807.5
LIFE SAFETY ACTUAL MAX.	150'	200'	8-2.6
T.D.	106'	20	810.2
DEAD END LIMIT 20 ACTUAL MAX.	12'-0"	---	---

**MINIMUM CORRIDOR WIDTH REQUIREMENTS**

BOCA REFERENCE/ LIFE SAFETY	810.3 / N/A
-----------------------------	-------------

**PANIC HARDWARE**

REQ'D	REFERENCE	LOCATIONS
BUILDING CODE	813.4.2	ALL DOORS SERVING MORE THAN 100
FIRE CODE	8-2.2.2.3	ALL DOORS SERVING MORE THAN 100

**EMERGENCY LIGHTING REQUIREMENTS**

REQ'D	REFERENCE	LOCATIONS
BUILDING CODE	823.0	ALL MEANS OF EGRESS
FIRE CODE	8-2.9	ALL MEANS OF EGRESS
NFPA 101	---	---

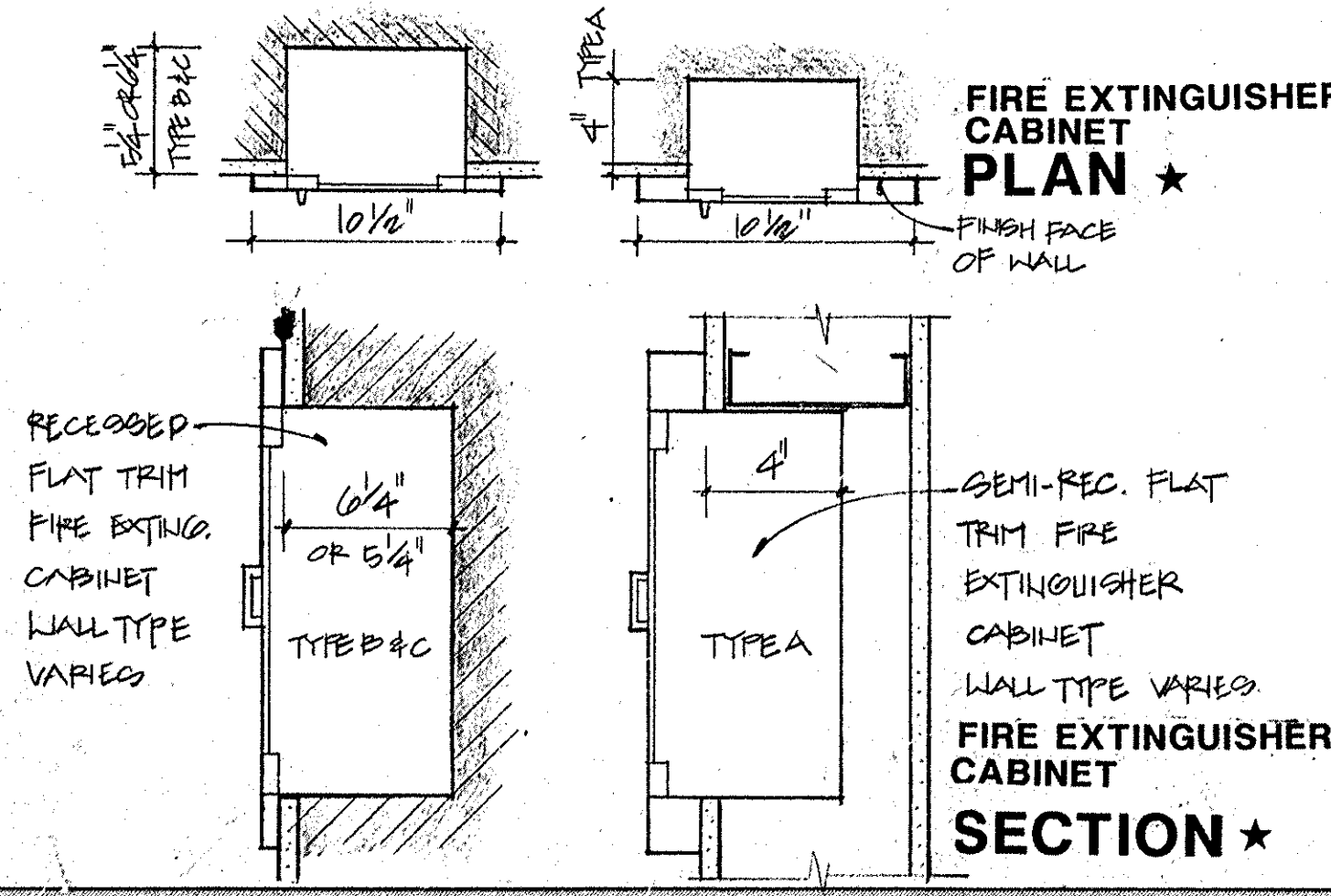
**OCCUPANCY LOADS AND EGRESS REQUIREMENTS**

LOCATION	AREA IN SQ. FT.	PER OCCUPANT	EGRESS WIDTH REQ'D	EGRESS WIDTH PRVD.	EGRESS NO. REQ'D	EGRESS NO. PRVD.
MULTI-PURPOSE MEETING ROOM	1426	7	204	36"	160"	2 4
	663	7	94	21"	96"	2 2

**\* FIRE EXTINGUISHER CABINET SCHEDULE**

TYPE	"A" UNITS	W X H X D	ROUGH OPENING	REMARKS
A*	2	10 1/2" x 25" x 4"	SEMI-REC.	
B*	4	10 1/2" x 25" x 6 1/4"	RECESSED	
C*	2	10 1/2" x 25" x 5 1/4"	RECESSED	

NOTE: QUANTITIES AS SHOWN ON PLAN.



**KEY**

OCCUPANCY LOAD: 857 OCC.

--- 1 HOUR RATED PARTITION

➔ EXIT WIDTH & EGRESS CAPACITY

★ FIRE EXTINGUISHER LOCATION (SEE SCHEDULE)

OFF. ROOM NAME  
 OCC.8 OCCUPANCY

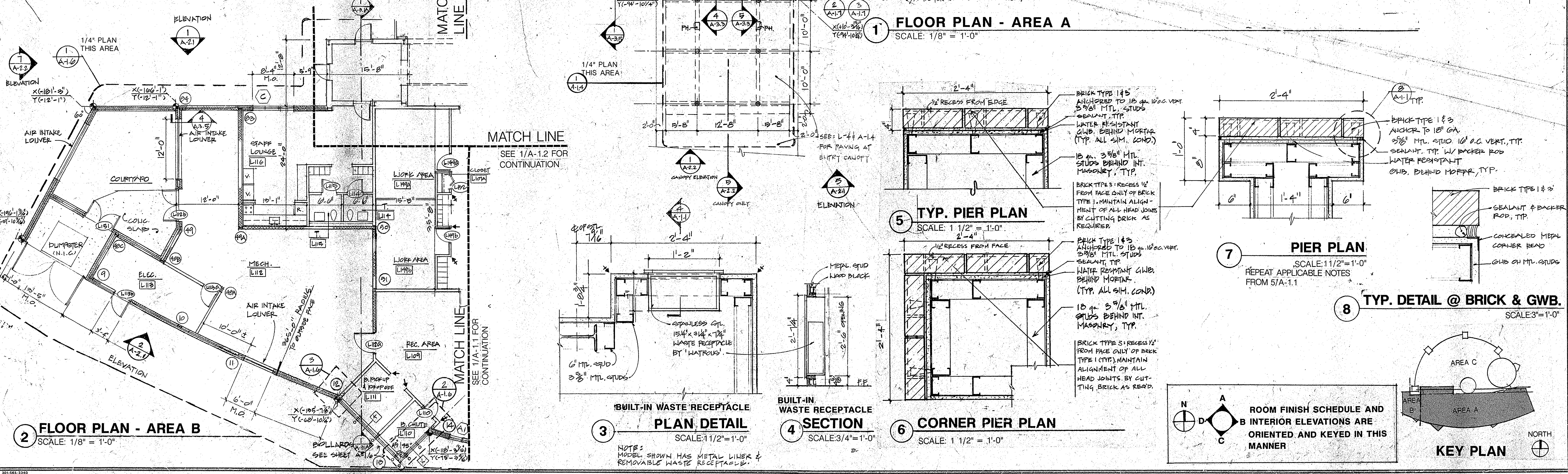
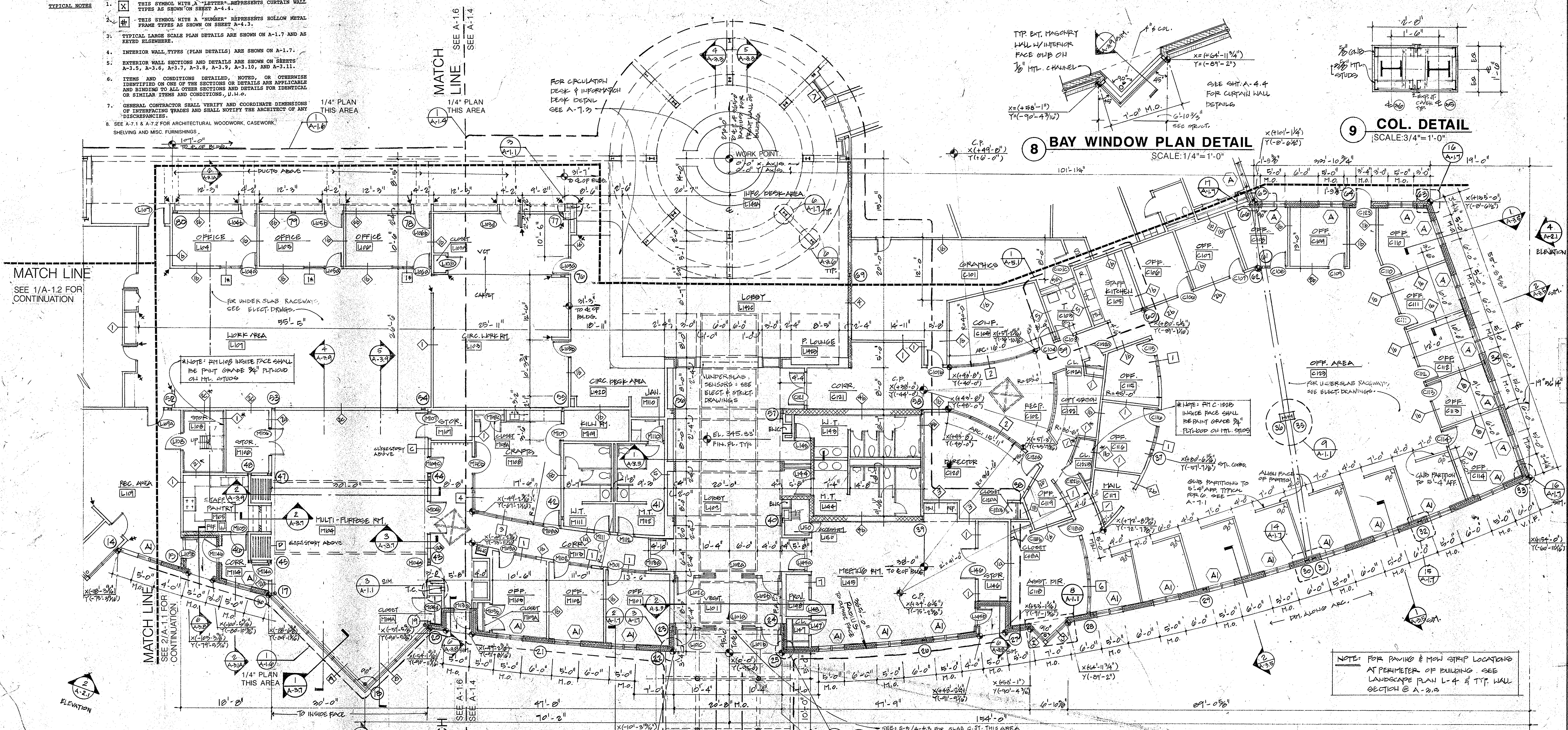
123 ROOM NUMBER

X(COORDINATE) REFER BACK TO  
 Y(COORDINATE) WORK POINT(C.P.)

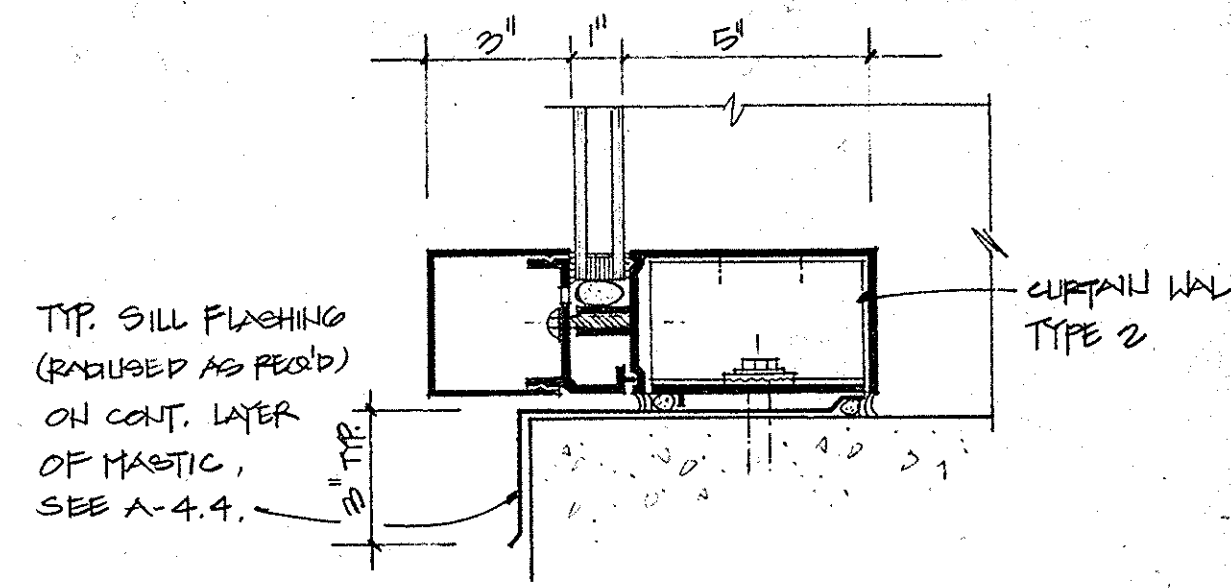
**G R I M M A N D P A R K E R**  
 ARCHITECTS • PLANNERS • ENGINEERS  
 4061 POWDER MILL ROAD • SUITE 401 • CATWORM, MD 20705 • (301) 595-1000 • FAX (301) 595-0089

**CODE STUDY & MISC. DETAILS**  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY MARYLAND

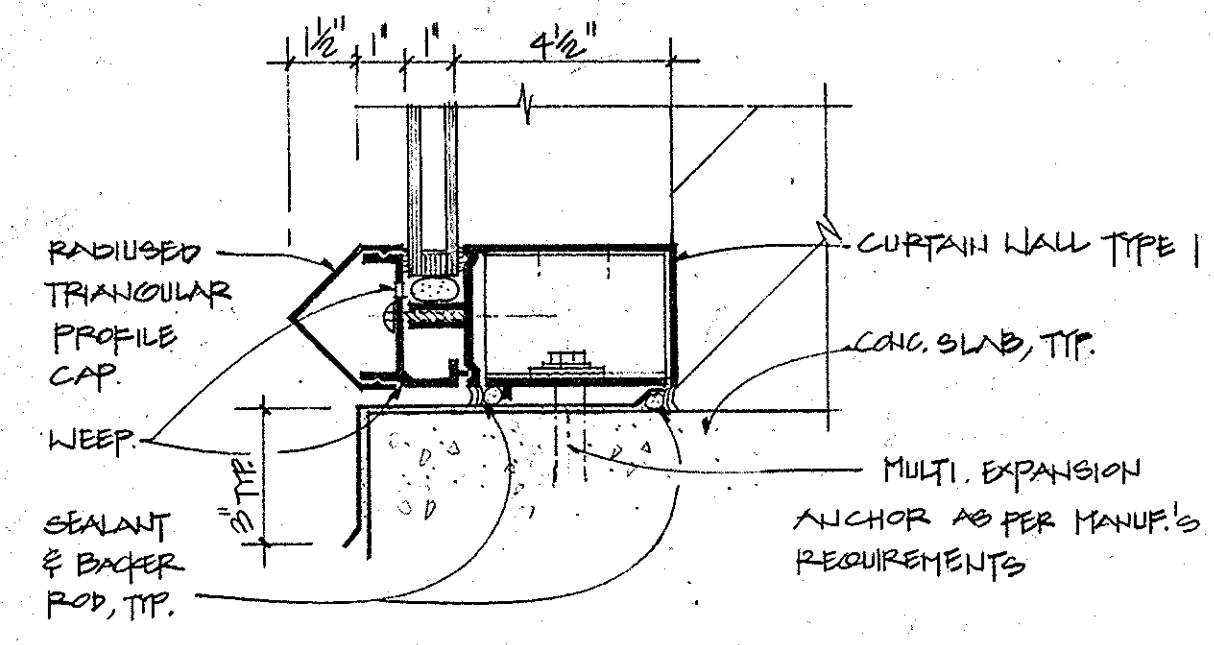
- TYPICAL NOTES**
- THIS SYMBOL WITH A "LETTER" REPRESENTS CURTAIN WALL TYPES AS SHOWN ON SHEET A-1.4.
  - THIS SYMBOL WITH A "NUMBER" REPRESENTS ROLLUP METAL FRAME TYPES AS SHOWN ON SHEET A-4.3.
  - TYPICAL LARGE SCALE PLAN DETAILS ARE SHOWN ON A-1.7 AND AS KEYS ELSEWHERE.
  - INTERIOR WALL TYPES (PLAN DETAILS) ARE SHOWN ON A-1.7.
  - EXTERIOR WALL SECTIONS AND DETAILS ARE SHOWN ON SHEETS A-3.5, A-3.6, A-3.7, A-3.8, A-3.9, A-3.10, AND A-3.11.
  - ITEMS AND CONDITIONS DETAILED, NOTED, OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR ITEMS AND CONDITIONS, U.N.C.
  - GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS OF INTERSECTING TRADES AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
  - SEE A-1.1 & A-1.2 FOR ARCHITECTURAL WOODWORK, CASEWORK, SHELVEING AND MISC. FURNISHINGS.



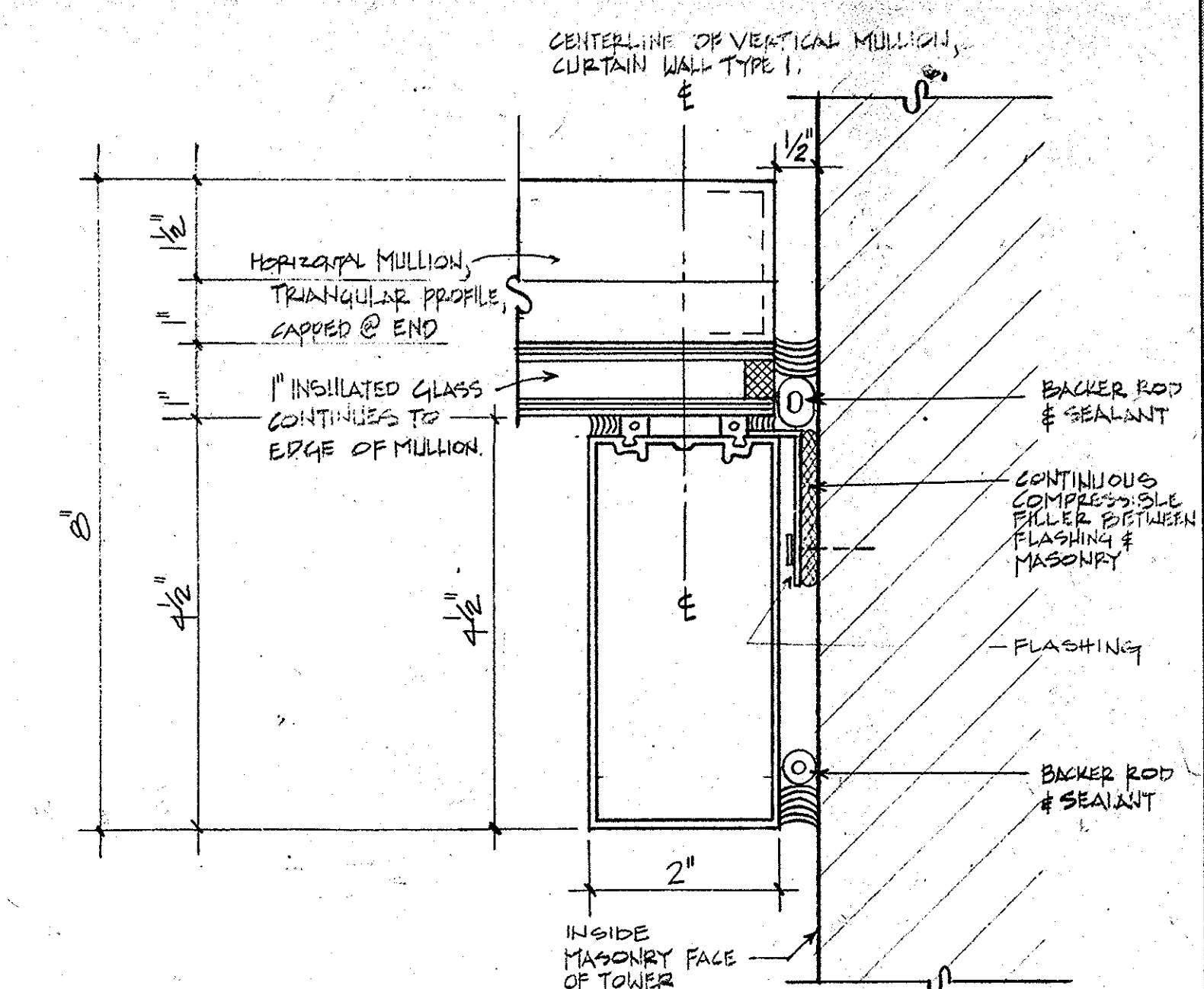
**G R I M M A N D P A R K E R**  
 ARCHITECTS • PLANNERS • ENGINEERS  
 4601 FOWER HILL ROAD • SUITE 401 • CAREERSHIP, MD 20705 • (301) 595-1000 • FAX (301) 595-0300



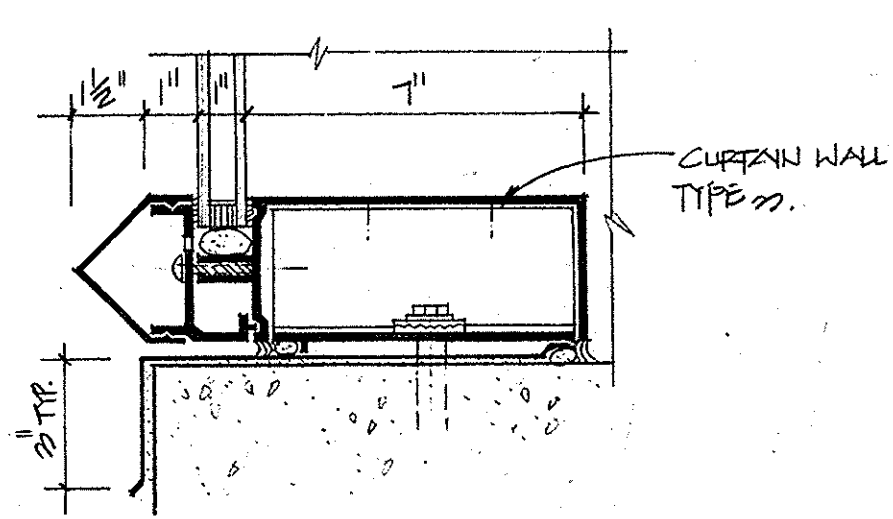
**6 CURTAIN WL. SILL TYPE 2**  
SCALE: 3/8"=1'-0"  
REPEAT APPLICABLE NOTES FROM 1/A-1.2



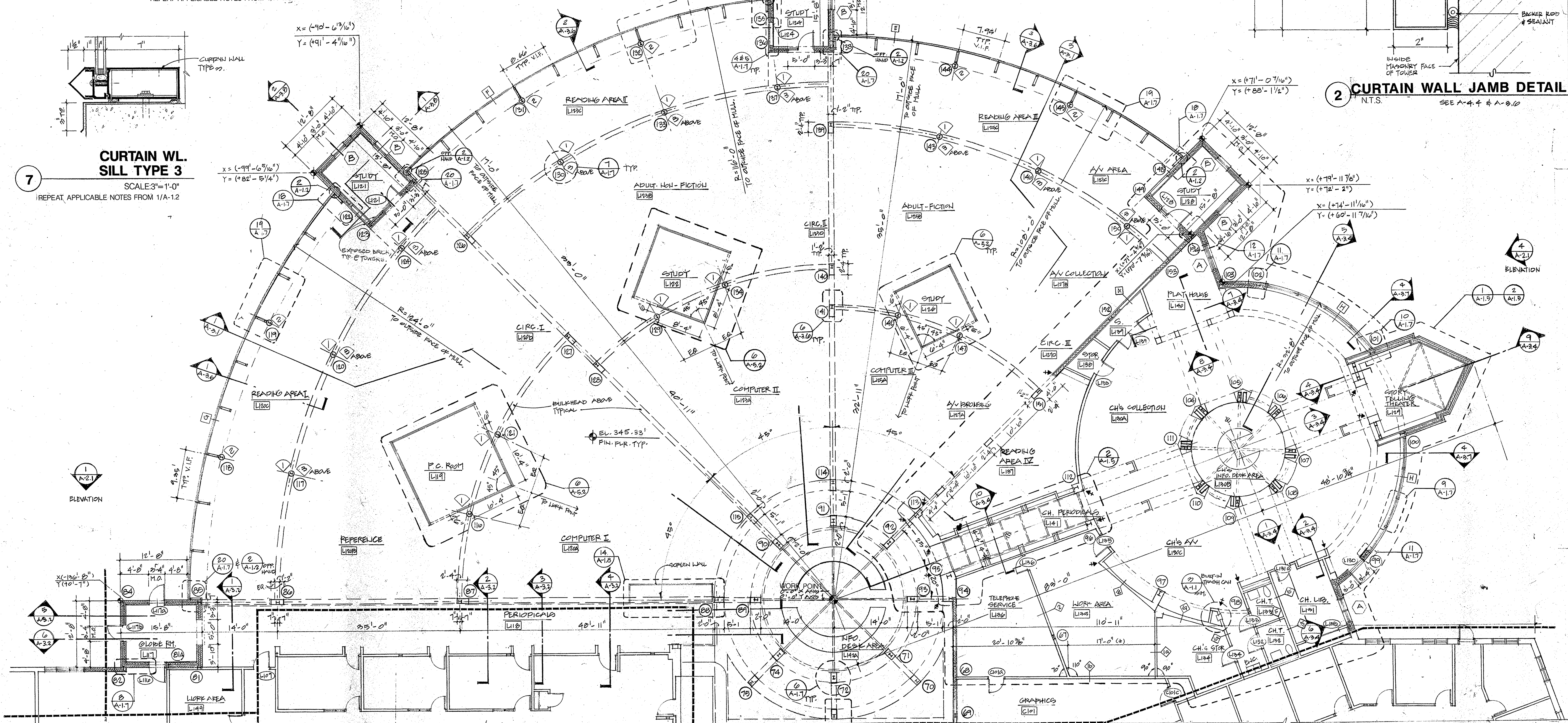
**5 CURTAIN WL. SILL TYPE 1**  
SCALE: 3/8"=1'-0"



**2 CURTAIN WALL JAMB DETAIL**  
N.T.S. SEE A-4.4 & A-9.10



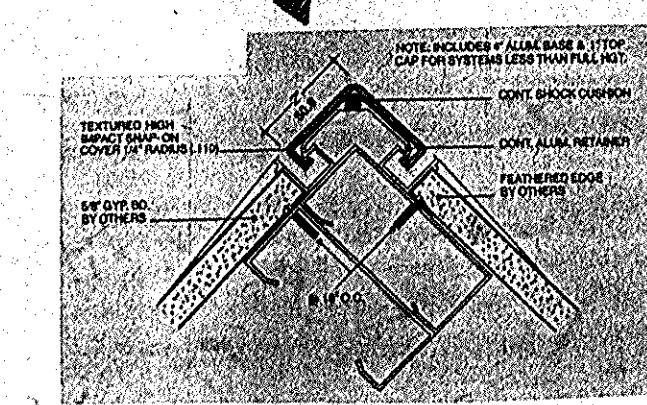
**7 CURTAIN WL. SILL TYPE 3**  
SCALE: 3/8"=1'-0"  
REPEAT APPLICABLE NOTES FROM 1/A-1.2



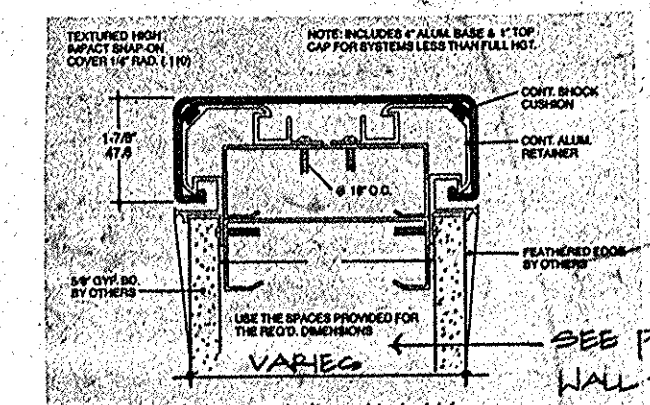
**1 FLOOR PLAN - AREA C** FOR UNDERSLAB RACEWAYS THROUGHOUT AREA C. SEE ELEC. DRWG'S.  
SCALE: 1/8"=1'-0"

NOTE: FOR BUILT-IN INFORMATION DECK (L140A)  
BUILT-IN CHS INFORMATION DECK (L130B)  
& BUILT-IN CIRCULATION PEST (L140D)  
SEE SH. A-7.2

NOTE: FOR PAVING & HALLSTRIP LOCATIONS  
AT PERIMETER OF BUILDING. SEE L-4  
& TYP. BLDG. WALL SECTIONS ON A-2.5

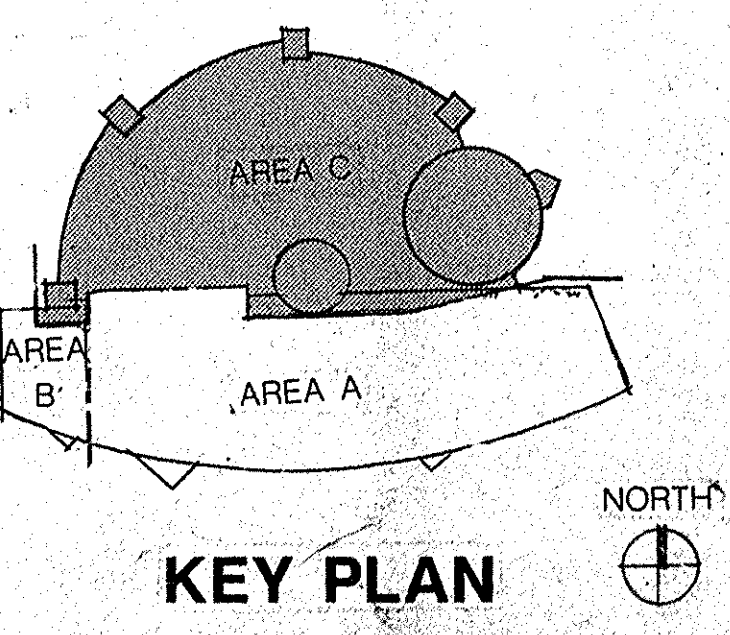
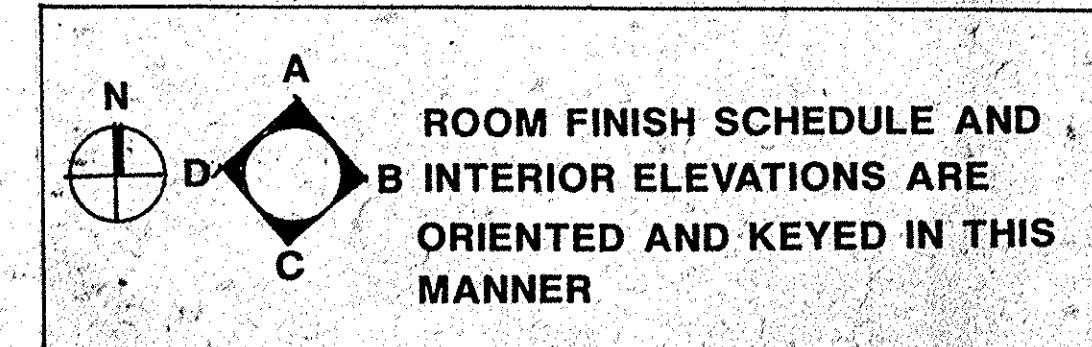


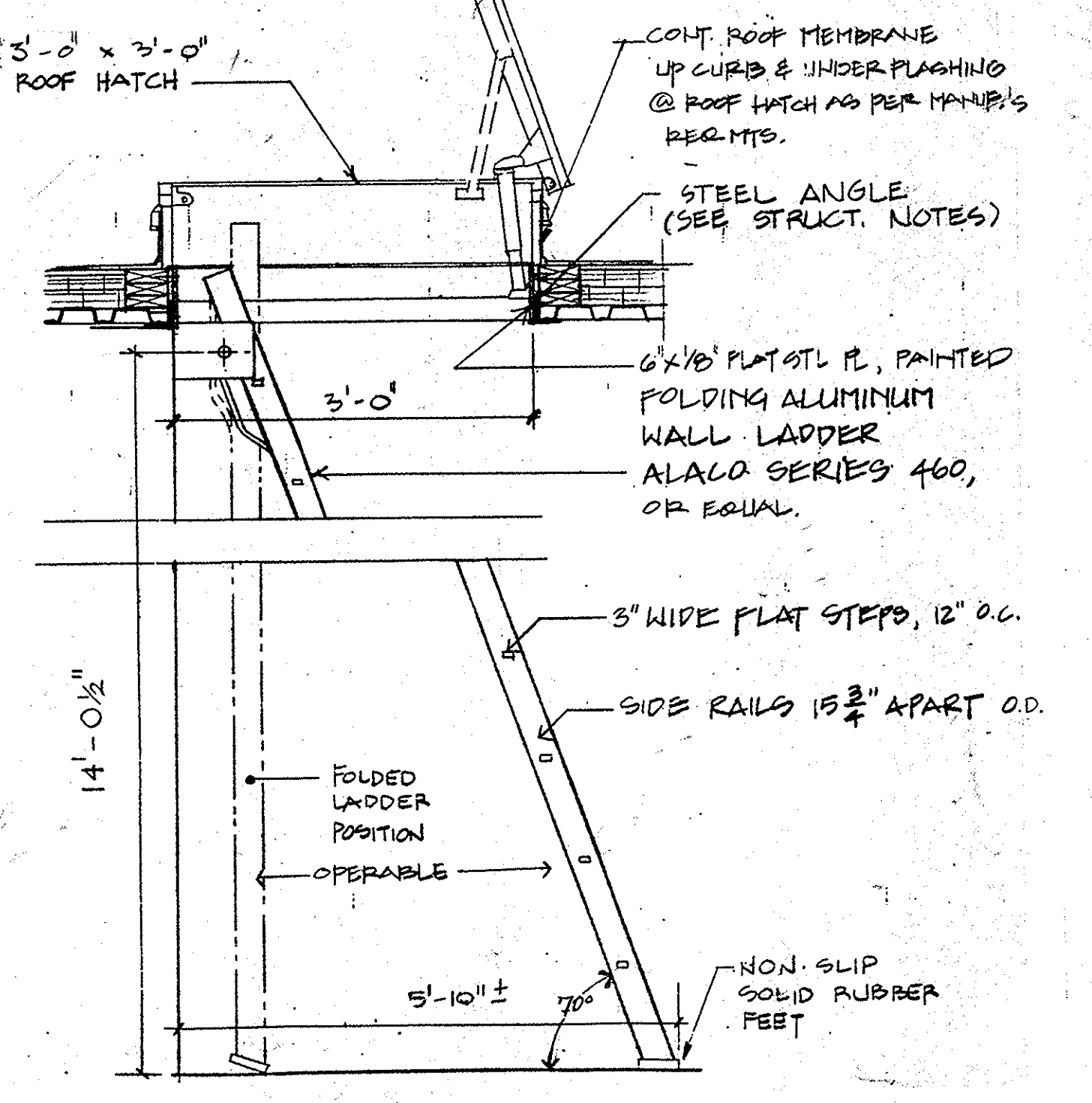
**4 WALL CORNER GUARD TYPE 2**  
N.T.S. SEE A-1.1 & A-1.2 FOR LOCATIONS



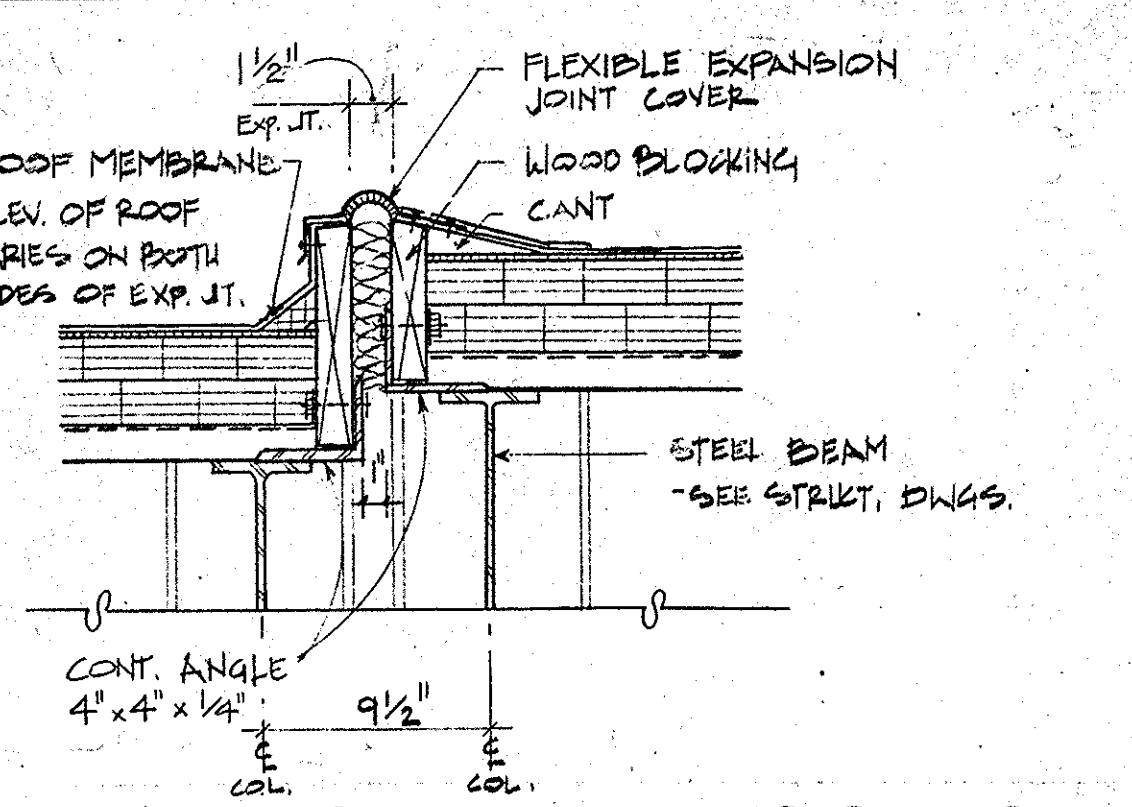
**3 WALL CORNER GUARD TYPE 1**  
N.T.S. SEE A-1.1 & A-1.2 FOR LOCATIONS

- TYPICAL NOTES**
- THIS SYMBOL WITH A "LETTER" REPRESENTS CURTAIN WALL TYPES AS SHOWN ON SHEET A-4.4.
  - THIS SYMBOL WITH A "NUMBER" REPRESENTS HOLLOW METAL FRAME TYPES AS SHOWN ON SHEET A-4.3.
  - TYPICAL LARGE SCALE PLAN DETAILS ARE SHOWN ON A-1.7 AND AS KEYS ELSEWHERE.
  - INTERIOR WALL TYPES (PLAN DETAILS) ARE SHOWN ON A-1.7.
  - EXTERIOR WALL SECTIONS AND DETAILS ARE SHOWN ON SHEETS A-3.5, A-3.6, A-3.7, A-3.8, A-3.9, A-3.10, AND A-3.11.
  - ITEMS AND CONDITIONS DETAILED, NOTED, OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR ITEMS AND CONDITIONS. U.H.O.
  - GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS OF INTERFACING TRADES AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
  - SEE A-7.1 & A-7.2 FOR ARCHITECTURAL WOODWORK, CASEWORK, SHELVING AND MISC. FURNISHINGS

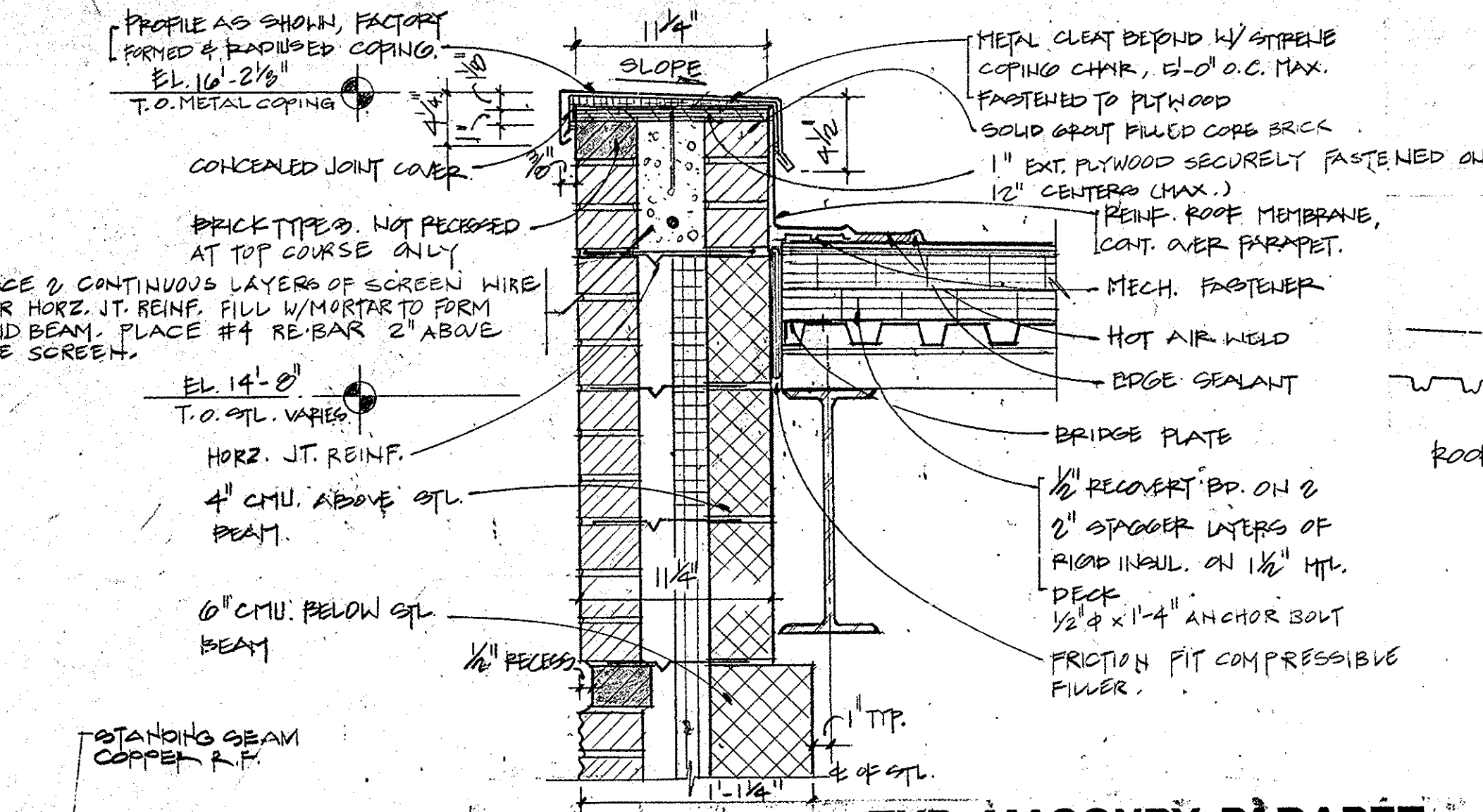




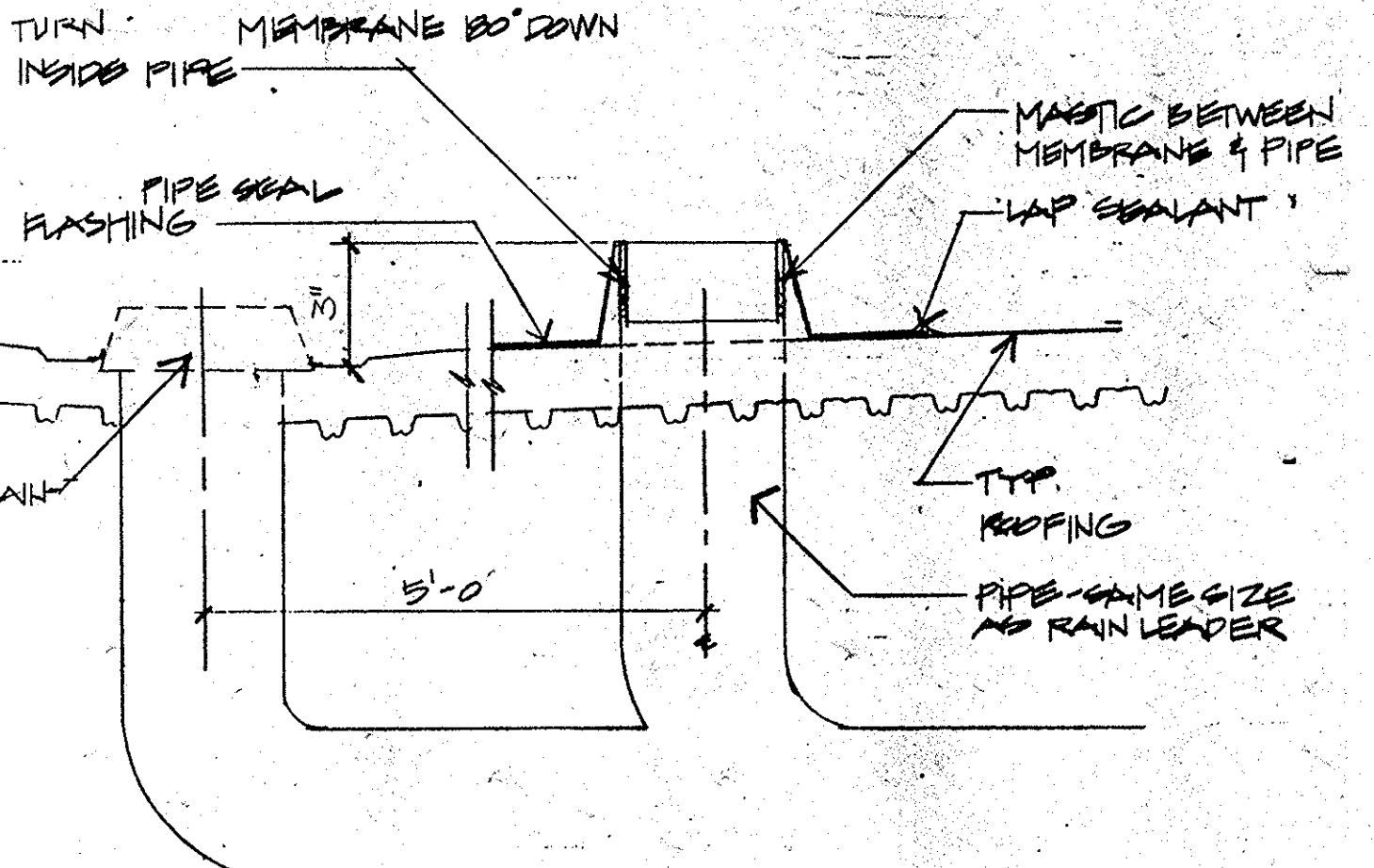
**2 SECTION AT ROOF HATCH & LADDER**  
SCALE: 3/4" = 1'-0"



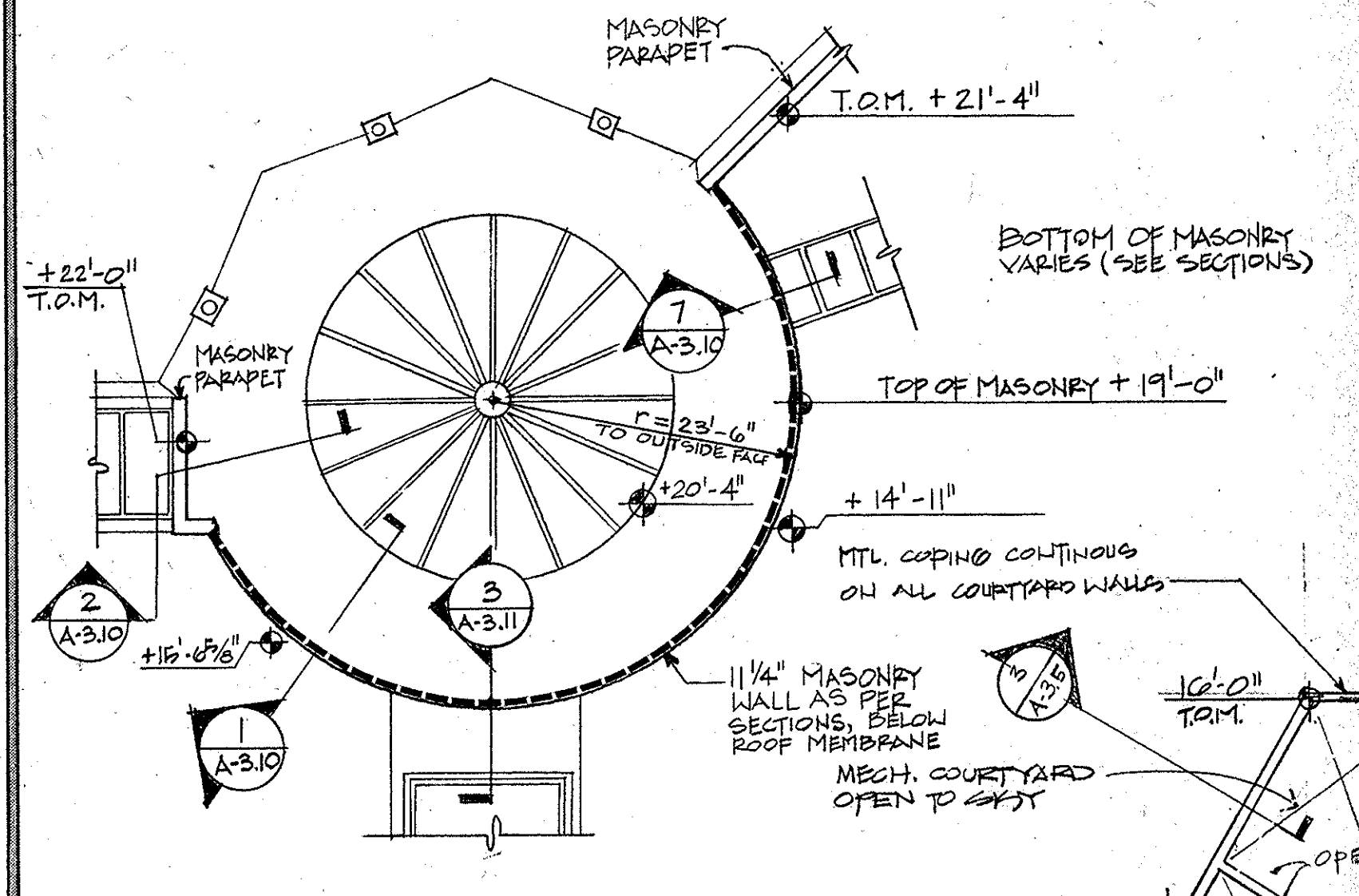
**3 SECTION - HORIZONTAL EXPANSION JOINT**  
SCALE: 1 1/2" = 1'-0"



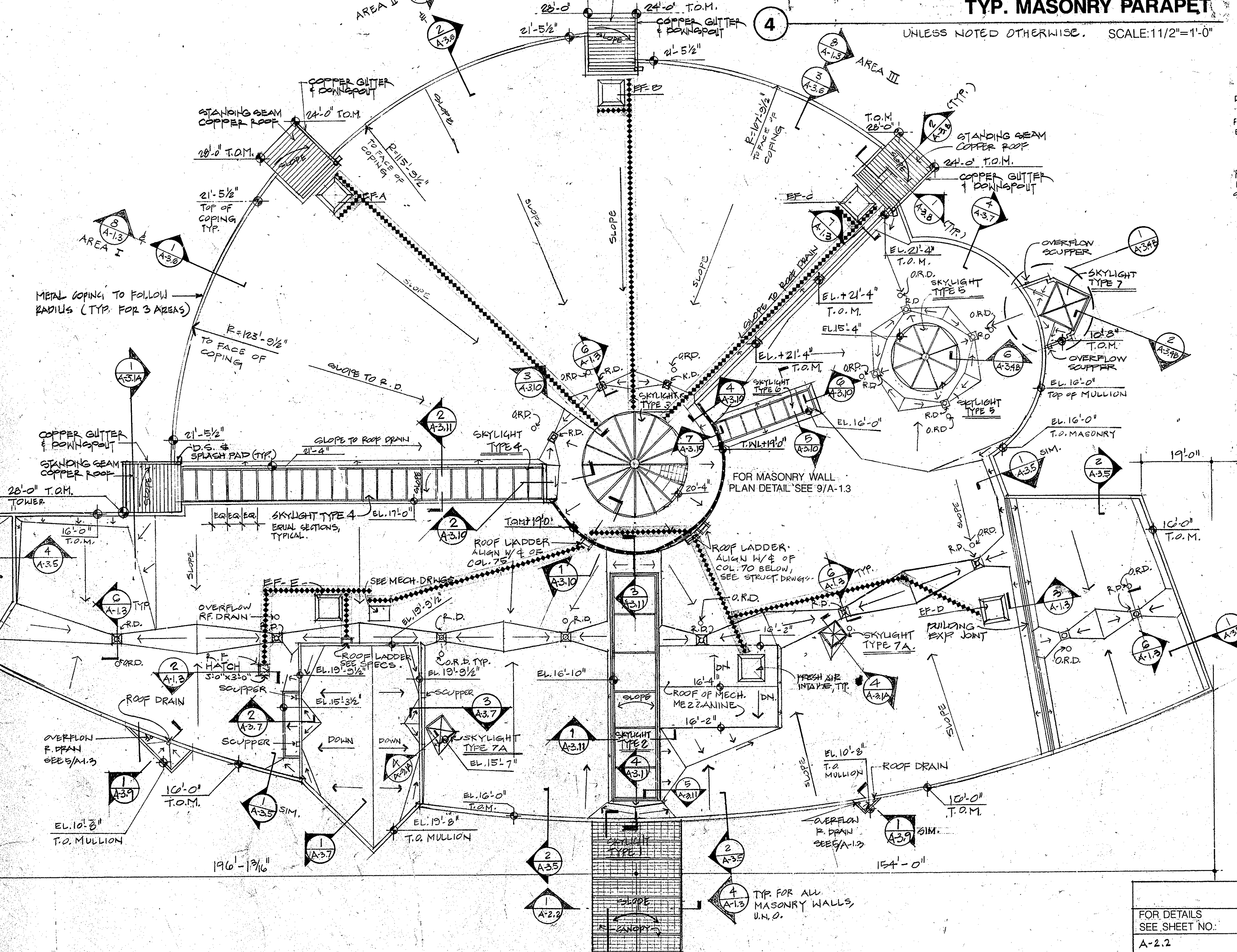
**4 TYP. MASONRY PARAPET**  
UNLESS NOTED OTHERWISE. SCALE: 1 1/2" = 1'-0"



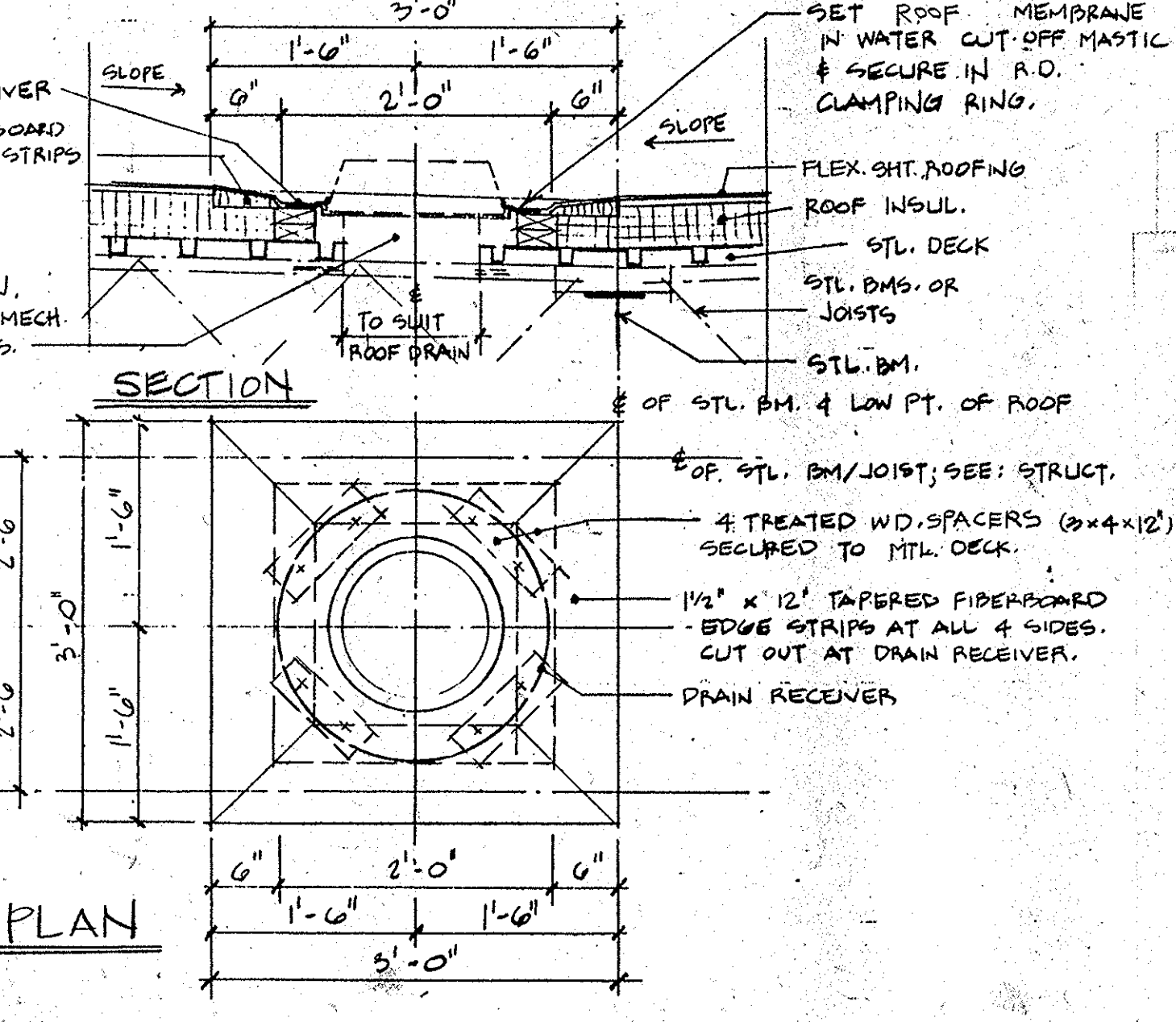
**5 SECTION - OVERFLOW ROOF DRAIN**  
OVERFLOW R.D.'S OCCUR IN CONJUNCTION W/ ALL R.D.'S, U.N.O. N.T.S.



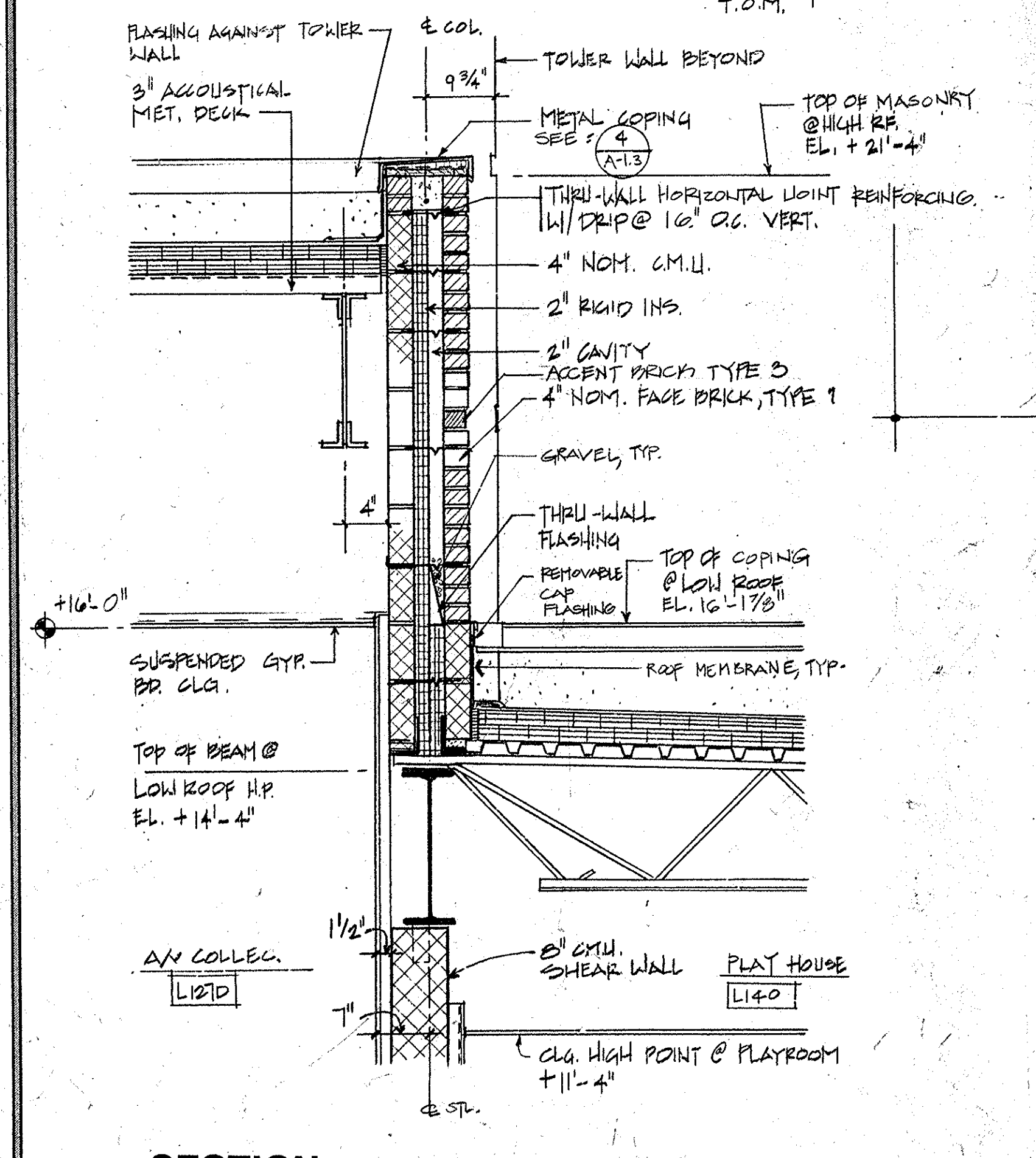
**9 MASONRY WALL PLAN @ SKYLIGHT 3**  
SCALE: 3/32" = 1'-0"



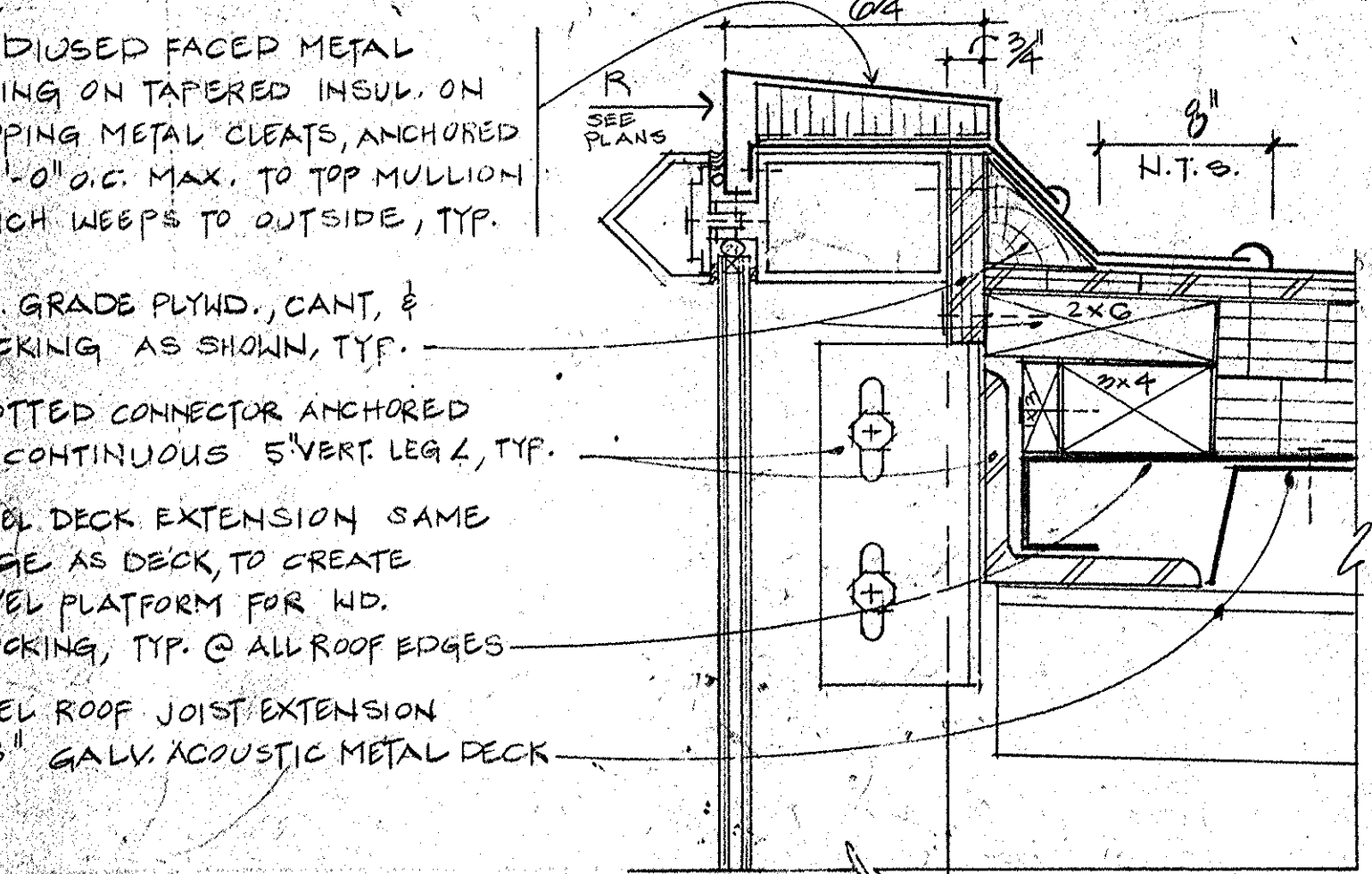
**1 ROOF PLAN**  
SCALE: 1/16" = 1'-0"



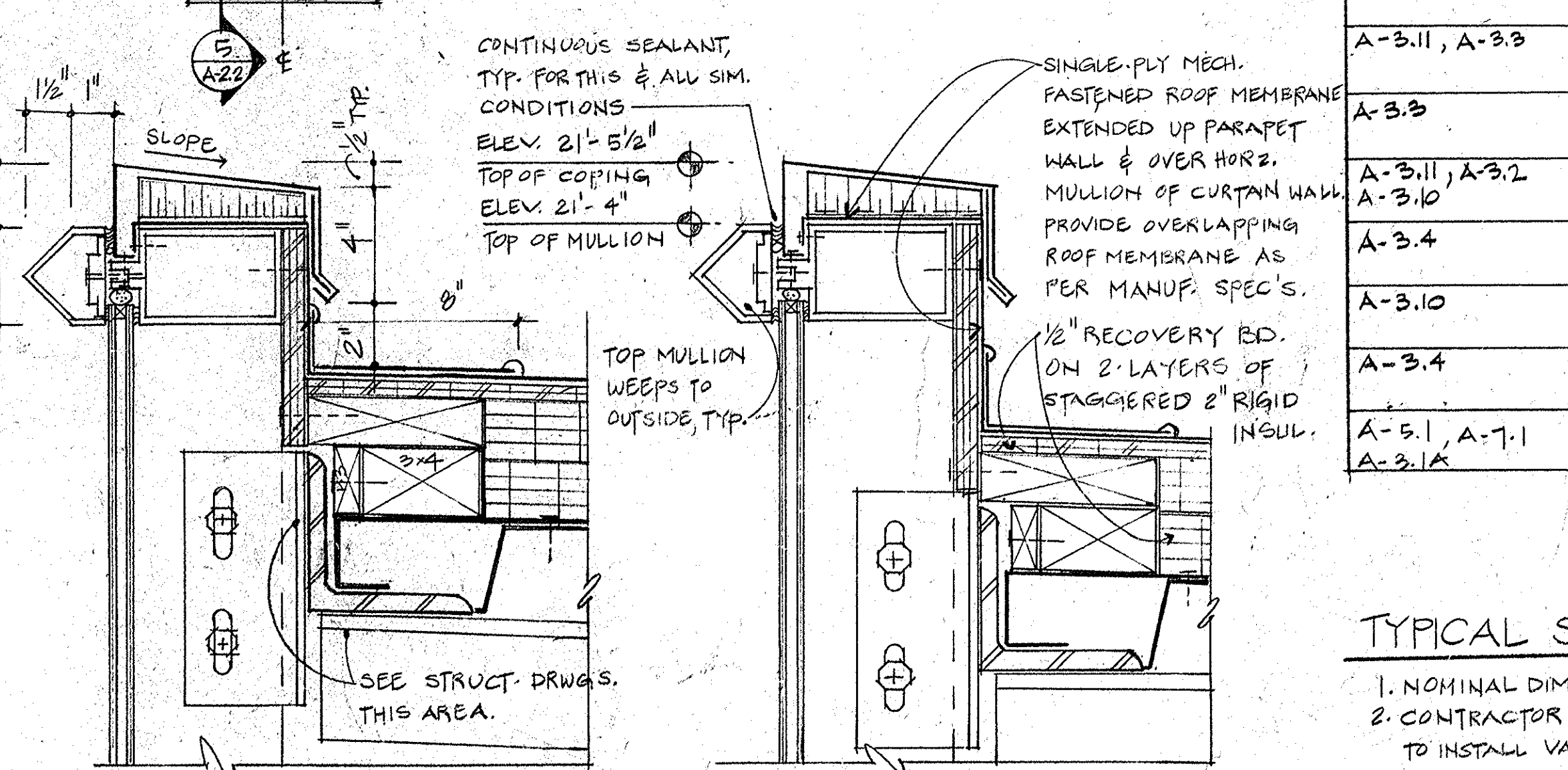
**6 ROOF DRAIN AT TYP. ROOF VALLEY**  
N.T.S.



**7 SECTION @ CH. 3 AREA SEE 1/A-1.22**  
SCALE: 3/4" = 1'-0"



**8 CURTAIN WALL PARAPET COPING DETAILS**  
SCALE: 3" = 1'-0"



NOTES FOR CURTAIN WALL PARAPET DETAILS AT AREAS I, II, & III ARE TYPICAL FOR ALL THREE AREAS.

- TYPICAL ROOF NOTES:**
- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDICATED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SPECIFIC ROOFING PRODUCTS WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE DRAWN TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED IN THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
  - ALL METAL COPING & FLASHING IS TO INCLUDE FACTORY FORMED & WELDED, SMOOTH CORNERS, FIELD CUTTING & BENDING OF CORNERS, COPING, OR FLASHING IS NOT ACCEPTABLE.
  - WHERE ELEVATIONS ARE GIVEN TO TOP OF MASONRY (T.O.M.) REFER TO WALL SECTIONS ON SHEETS A-3.1, A-3.2, A-3.3, A-3.4, A-3.10 AND A-3.11, TYPICAL. ALSO SEE 1/A-1.3 FOR COPING DETAILS, TYPICAL.
  - WHERE ELEVATIONS ARE GIVEN AT TOP OF CURTAIN WALLS, REFER TO APPROPRIATE WALL SECTIONS FOR DETAILS AND TO 1/A-1.3 FOR COPING DETAILS.
  - WHERE WALLS ARE RADIUSED IN PLAN, COPING IS TO FOLLOW RADIUS.
  - WHERE COPPER ROOFING IS SPECIFIED, ALL EXPOSED ADJACENT ROOFING ACCESSORIES SHALL BE OF COPPER.
  - FOR ROOF LADDER INFORMATION, SEE SPECIFICATIONS.

**ROOF PLAN LEGEND:**

→	SLOPE TO DRAIN	EF.	EXHAUST FAN
RD	ROOF DRAIN	T.M.	TOP OF MULLION
OR.D.	OVERFLOW ROOF DRAIN		
SPOT	SPOT ELEVATIONS, REFER TO WALL SECTIONS		
T.O.M.	TOP OF MASONRY		
D.S.	DOWN SPOUT		
WALKWAY	ROOF WALKWAY PAD, LOCATED AS SHOWN		

**SKYLIGHT SCHEDULE**

FOR DETAILS SEE SHEET NO.	TYPE	SECTION SHAPE	WIDTH	RADIUS	LOCATION	REMARKS
A-2.2	1	SHALLOW BARREL VAULT	24'-0"	16'-0"	CANOPY	*NON-INSULATED WITH SASH GUARDS SEE A-2.2
A-3.11, A-3.3	2	SHALLOW BARREL VAULT	12'-0"	9'-0"	PH. L102	INSULATED SEE A-3.11 & A-3.3
A-3.3	3	SEGMENTED CONE & PANELS	20'-0"	14'-0"	L142A	INS. STRUCT. CONE 16° SLOPE
A-3.11, A-3.2	4	INCOMPLETE 90° ARCH VAULT	8'-0"	12'-0"	L11B	INSULATED SEE A-3.11 & A-3.2
A-3.4	5	SEGMENTED CONE & PANELS	20'-2 1/2"	10'-1 1/4"	L130B	INS. STRUCT. CONE 16° SLOPE
A-3.10	6	SHALLOW BARREL VAULT	6'-0"	5'-0"	L141	INSULATED
A-3.4	7	PYRAMID	10'-0"	(N.A.)	L129	INSULATED 45° SLOPE
A-3.1, A-7.1, A-3.1A	7A	PYRAMID	5'-0"	(N.A.)	C102 M113	INSULATED 27° SLOPE

\*NOTE: SKYLIGHT MANUFACTURER TO PROVIDE FOR WEIGHT OF SUSPENDED LIGHT FIXTURE IN THE DESIGN OF SKYLIGHT STRUCTURE. C.C. TO COORDINATE FOR BID PURPOSES, ASSUME A D.L. OF 400# SWEP FROM CENTER POINT OF SKYLIGHT TYPE 3.

- TYPICAL SKYLIGHT NOTES:**
- NOMINAL DIMENSIONS ARE SHOWN, SKYLIGHT MANUF. TO VERIFY DIMENSIONS IN FIELD, PRIOR TO FABRICATION.
  - CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO INSTALL VARIOUS SKYLIGHTS. VERIFY ACTUAL SYSTEM DIMENSIONS WHOSE SHOWN ON ALL DRAWINGS PERTAINING TO SKYLIGHTS & VERIFY IN FIELD.
  - SEAL ALL CONDITIONS OF ABUTTING DISMILAR MATERIALS AS PER SPEC.
  - PROVIDE APPROPRIATE ANCHORS & INSTALL AS PER INDUSTRY STANDARDS.

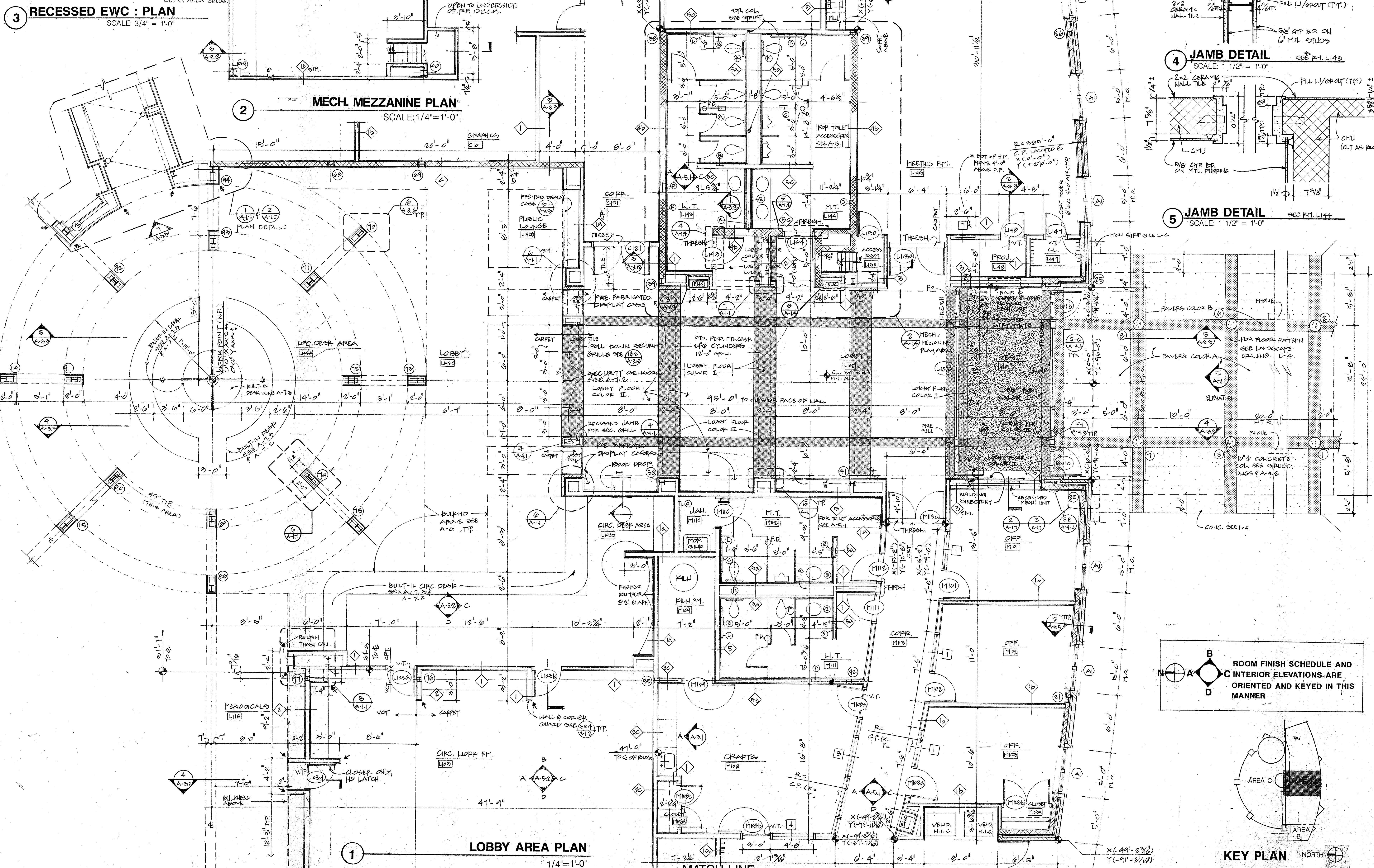
FOR FINISH FACE MATERIAL, SEE FINISH SCHEDULE.

**3 RECESSED EWC : PLAN**  
SCALE: 3/4" = 1'-0"

**2 MECH. MEZZANINE PLAN**  
SCALE: 1/4" = 1'-0"

- TYPICAL NOTES**
- THIS SYMBOL WITH A "LETTER" REPRESENTS CURTAIN WALL TYPES AS SHOWN ON SHEET A-4.4.
  - THIS SYMBOL WITH A "NUMBER" REPRESENTS HOLLOW METAL FRAME TYPES AS SHOWN ON SHEET A-4.3.
  - TYPICAL LARGE SCALE PLAN DETAILS ARE SHOWN ON A-1.7 AND AS KEYPED ELSEWHERE.
  - INTERIOR WALL TYPES (PLAN DETAILS) ARE SHOWN ON A-1.7.
  - EXTERIOR WALL SECTIONS AND DETAILS ARE SHOWN ON SHEETS A-3.5, A-3.6, A-3.7, A-3.8, A-3.9, A-3.10, AND A-3.11.
  - ITEMS AND CONDITIONS DETAILED, NOTED, OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR ITEMS AND CONDITIONS. U.N.I.C.
  - GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS OF INTERFACING TRADES AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
  - SEE A-7.1 & A-7.2 FOR ARCHITECTURAL WOODWORK, CASEWORK, SHELVING AND MISC. FURNISHINGS.

**NOTE:**  
SEE STRUCT. FRAMES.  
MEP DRILLS FOR THIS AREA.

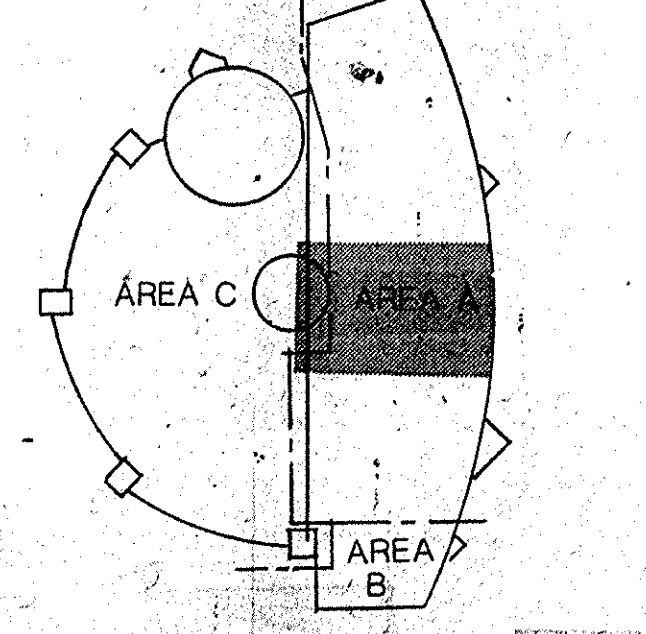


**1 LOBBY AREA PLAN**  
1/4" = 1'-0"

**4 JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"

**5 JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"

**ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS ARE ORIENTED AND KEYPED IN THIS MANNER**



**KEY PLAN** NORTH

**1/4" PLAN DETAIL: LOBBY**

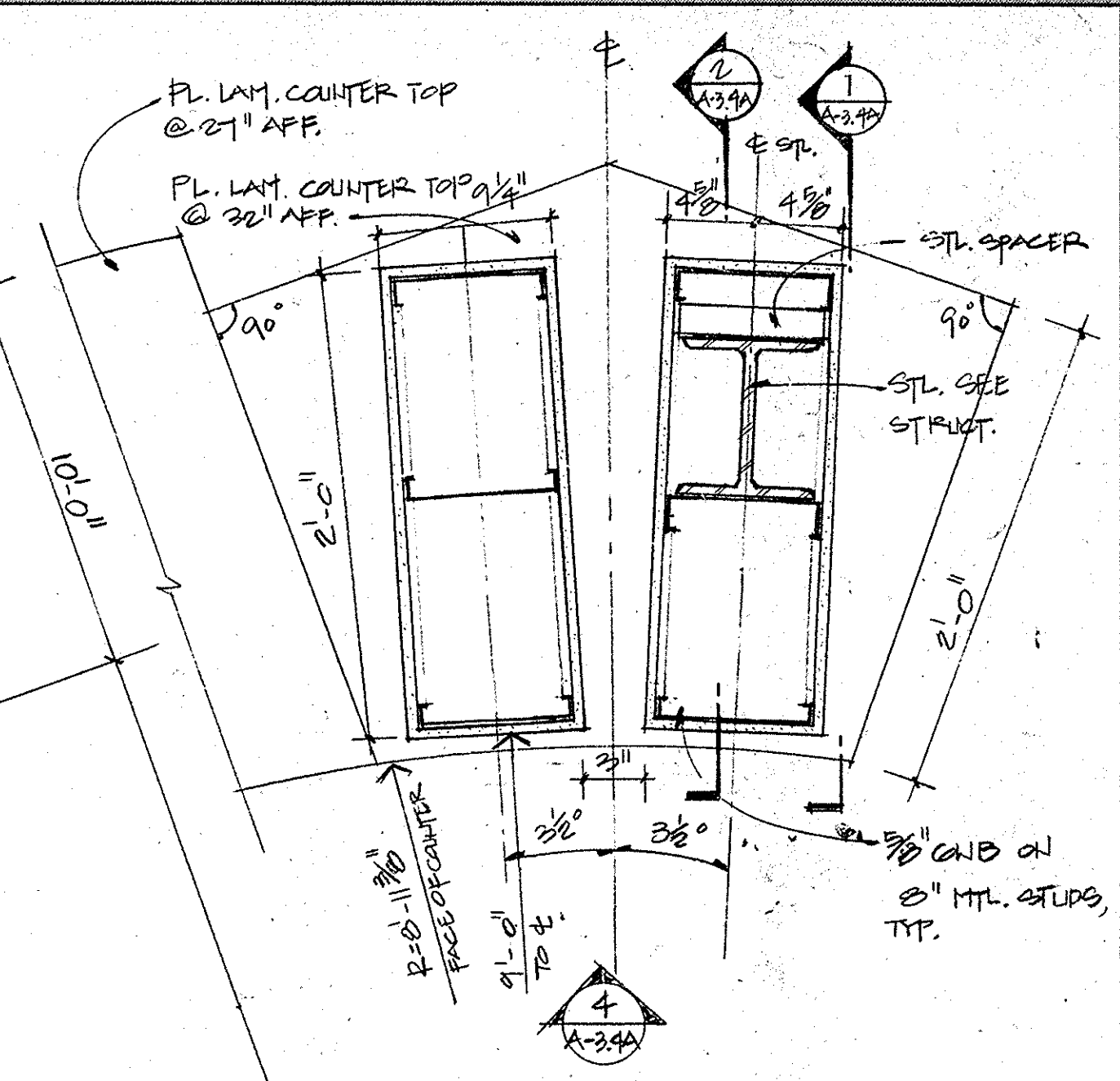
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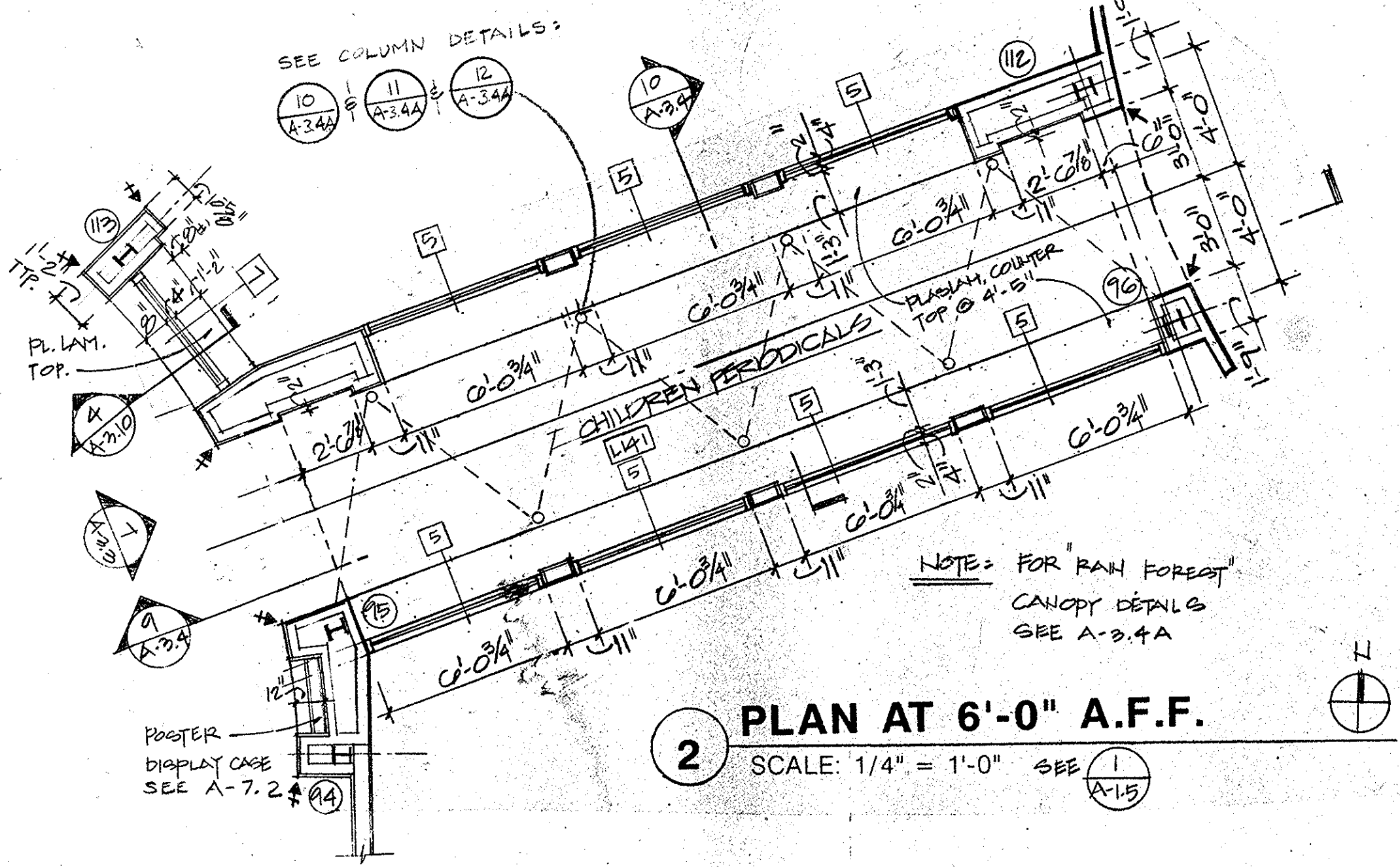
**A-1.4**  
PERMIT SET,  
27 JAN-92

**TYPICAL NOTES**

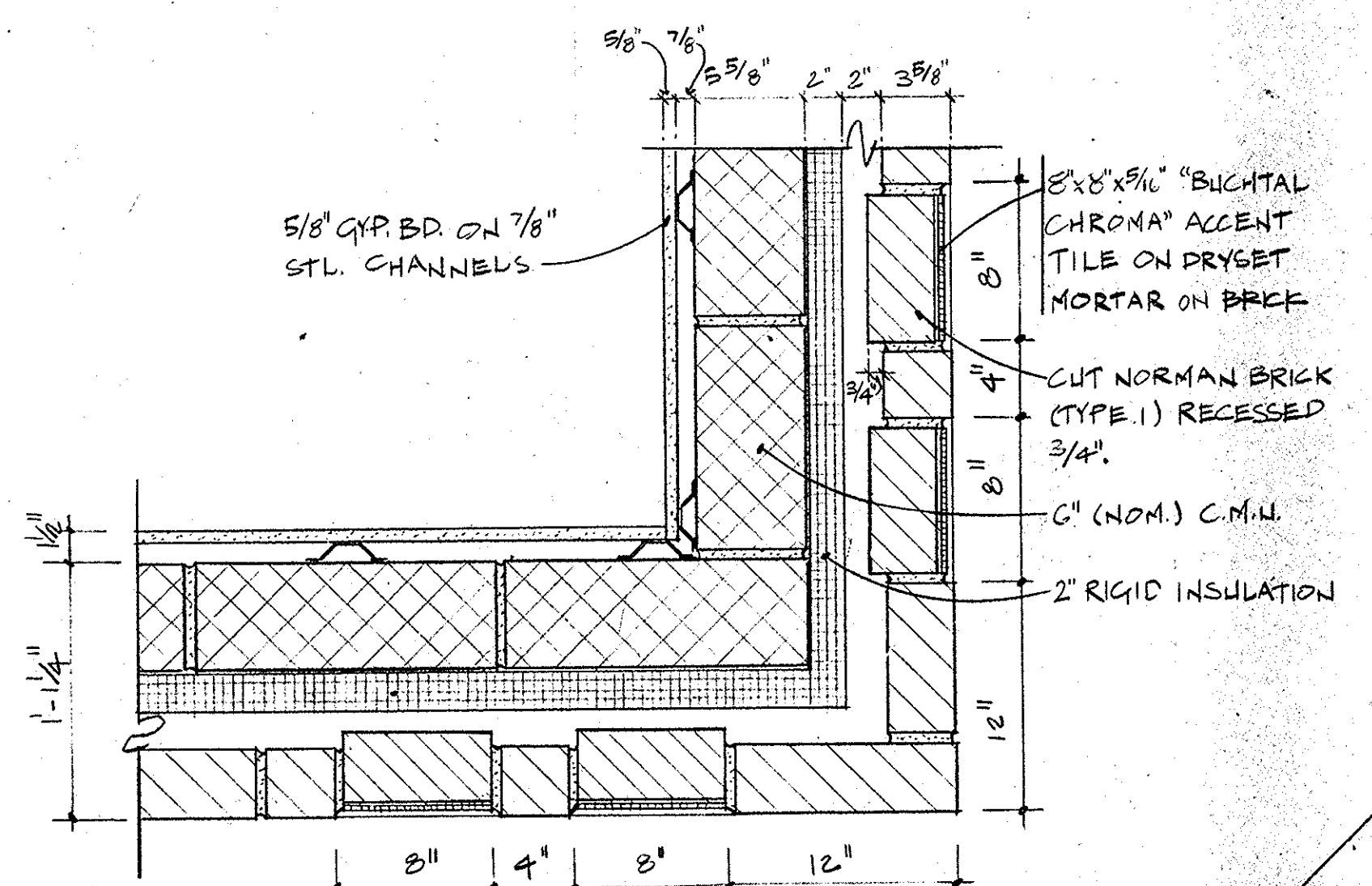
1. THIS SYMBOL WITH A "LETTER" REPRESENTS CURTAIN WALL TYPES AS SHOWN ON SHEET A-4.4.
2. THIS SYMBOL WITH A "NUMBER" REPRESENTS HOLLOW METAL FRAME TYPES AS SHOWN ON SHEET A-4.3.
3. TYPICAL LARGE SCALE PLAN DETAILS ARE SHOWN ON A-1.7 AND AS KEYPED ELSEWHERE.
4. INTERIOR WALL TYPES (PLAN DETAILS) ARE SHOWN ON A-1.7.
5. EXTERIOR WALL SECTIONS AND DETAILS ARE SHOWN ON SHEETS A-3.5, A-3.6, A-3.7, A-3.8, A-3.9, A-3.10, AND A-3.11.
6. ITEMS AND CONDITIONS DETAILED, NOTED, OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR ITEMS AND CONDITIONS. I.I.C.
7. GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS OF INTERFERING TRADES AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
8. SEE A-7.1 & A-7.2 FOR ARCHITECTURAL WOODWORK, CASEWORK, SHELVING AND MISC. FURNISHINGS



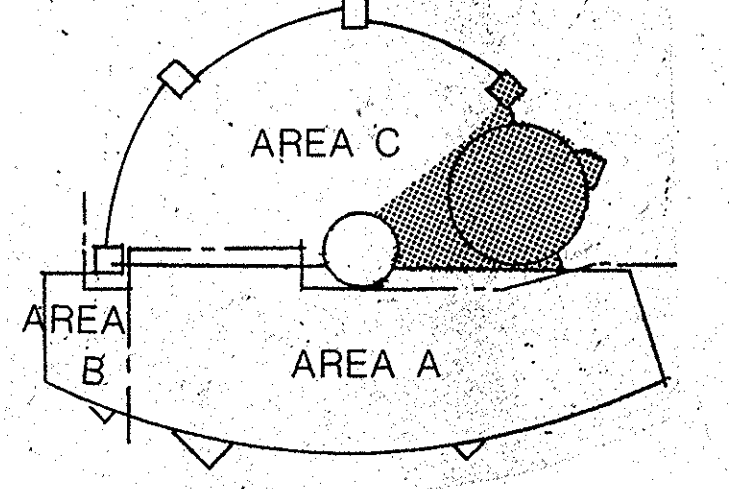
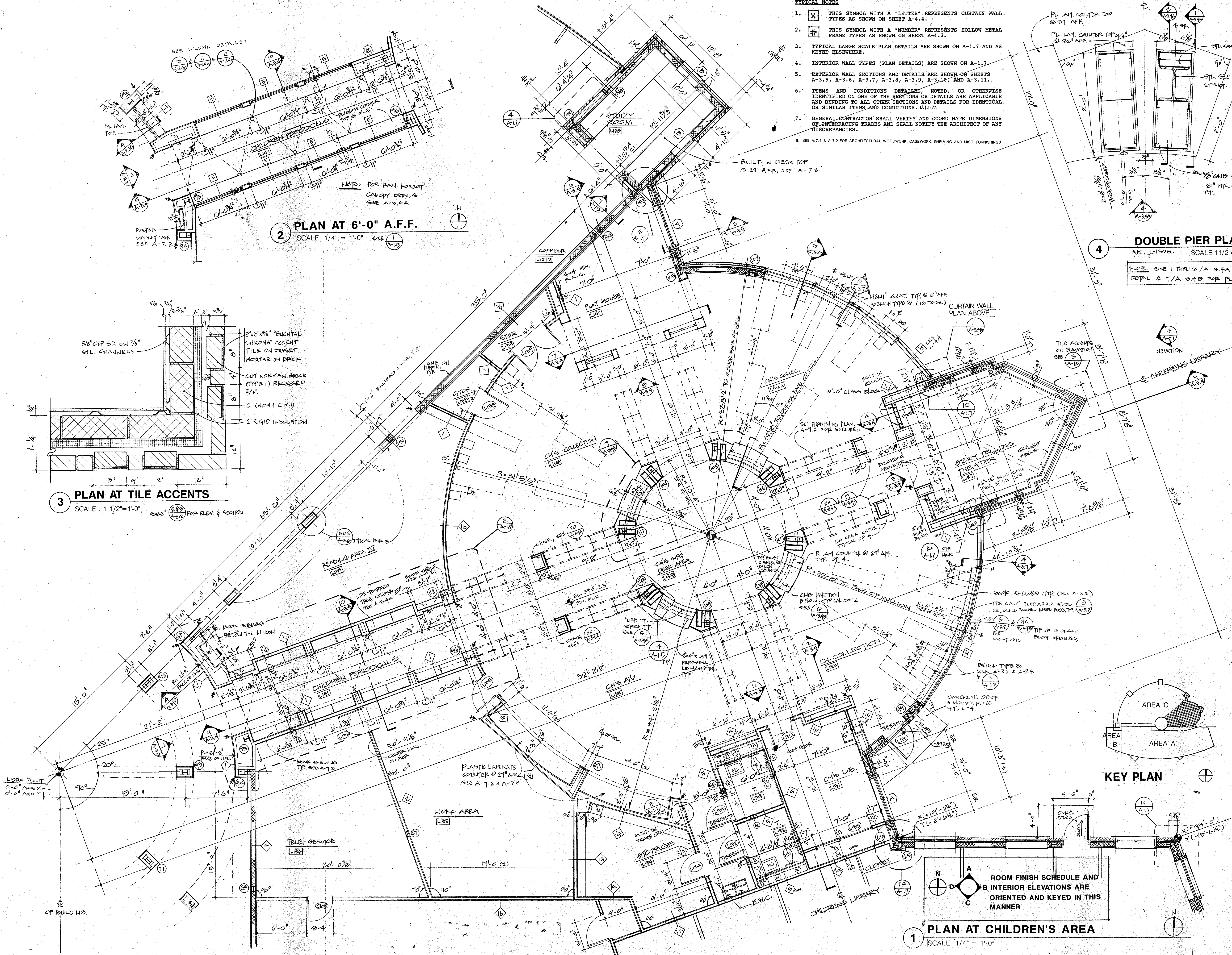
**4 DOUBLE PIER PLAN**  
 R.M. L-130B. SCALE: 1 1/2" = 1'-0"  
 NOTE: SEE I THRU O/A-3.4A FOR PIERAL & 1/A-3.4B FOR PLAN



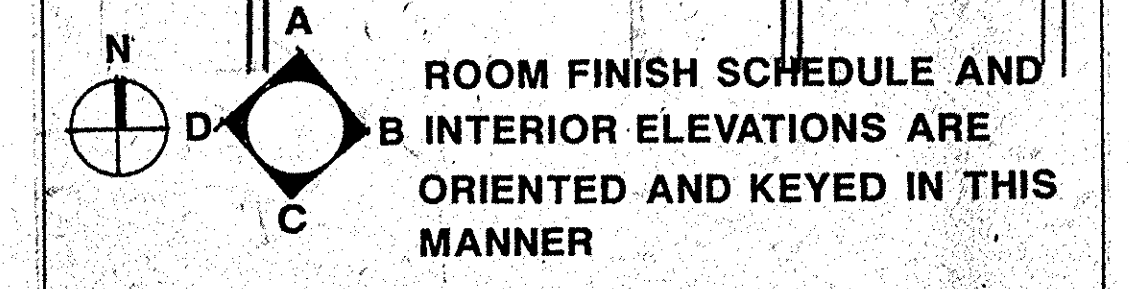
**2 PLAN AT 6'-0" A.F.F.**  
 SCALE: 1/4" = 1'-0" SEE A-15



**3 PLAN AT TILE ACCENTS**  
 SCALE: 1 1/2" = 1'-0" SEE A-15 FOR ELEV. & SECTION

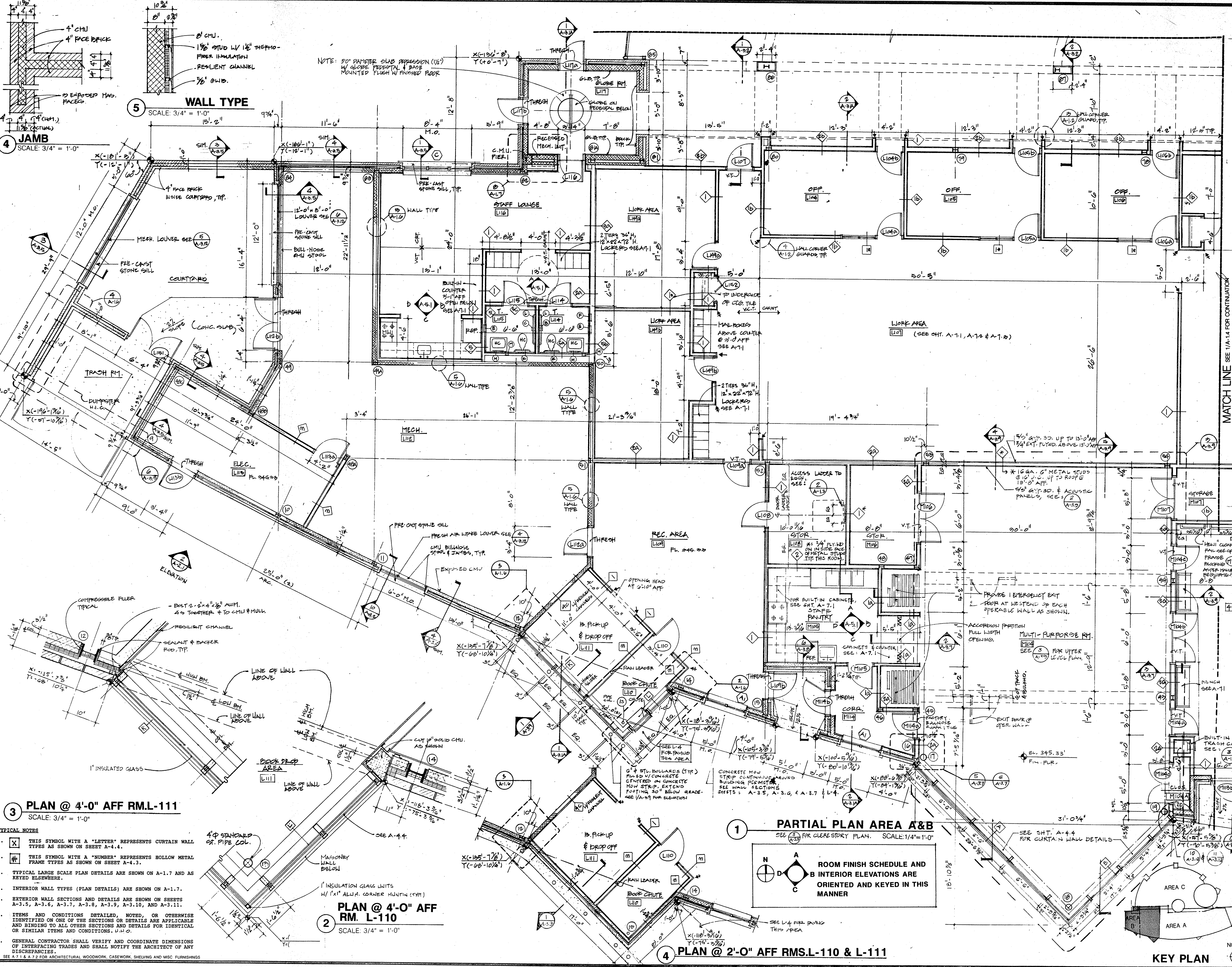


**KEY PLAN**



**1 PLAN AT CHILDREN'S AREA**  
 SCALE: 1/4" = 1'-0"

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**CHILDREN'S AREA PLAN DETAIL**  
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**A-1.5**  
 BID SET  
 18 FEB 92



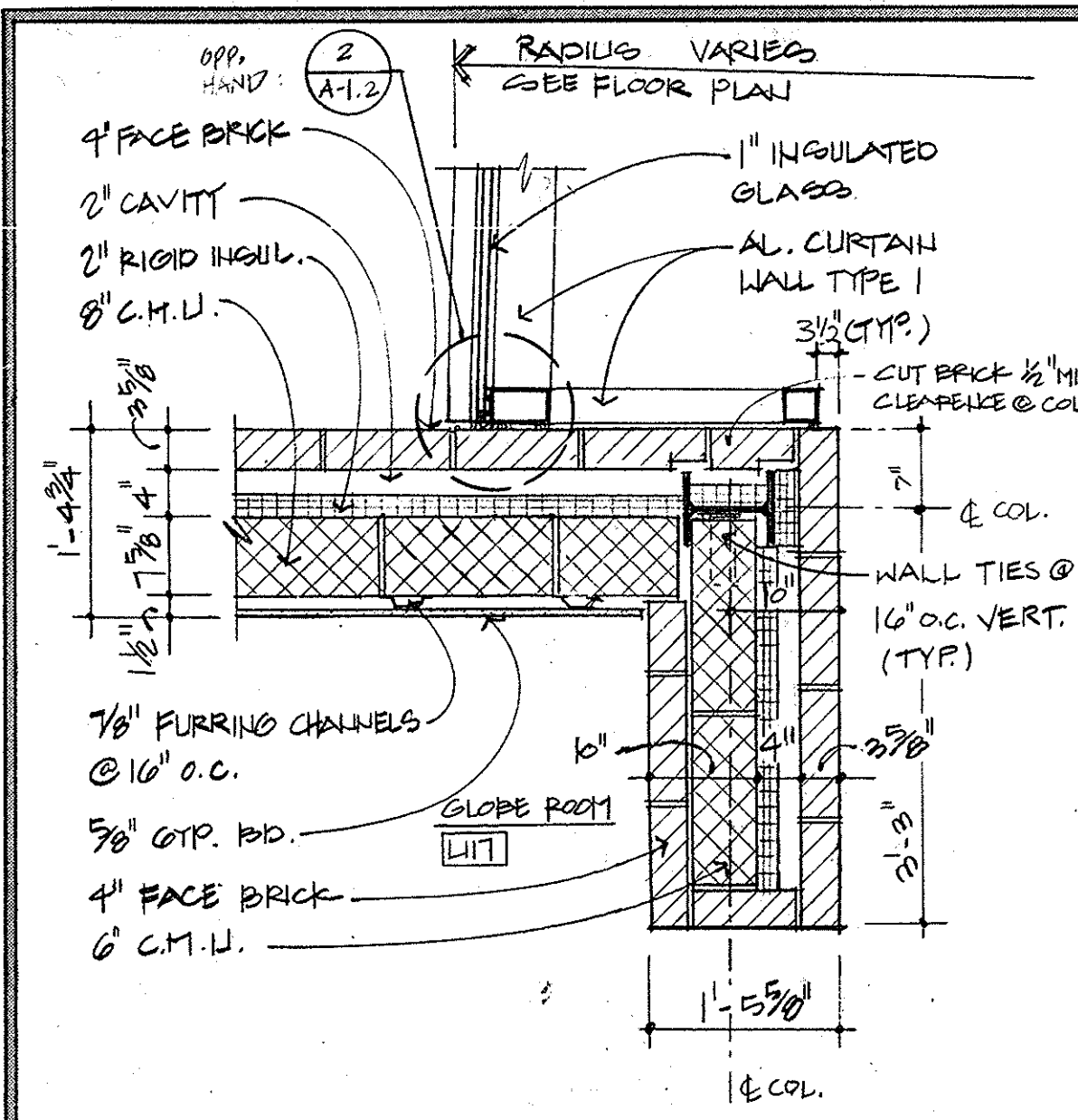
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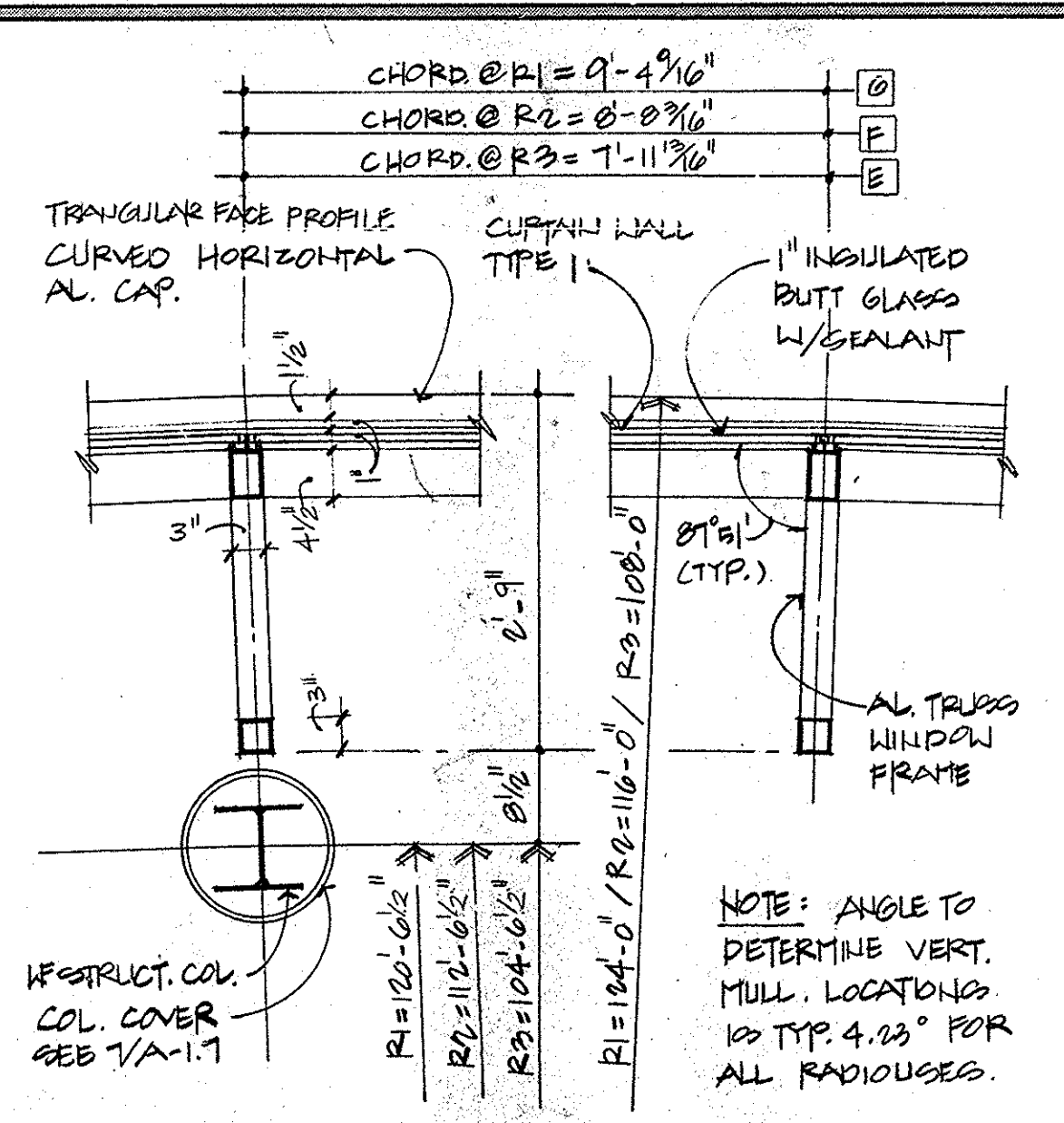
**1/4" PLAN DETAIL-MULTI-PURPOSE RM. AREA**

**A-1.6**  
 BID SET  
 18 FEB 92

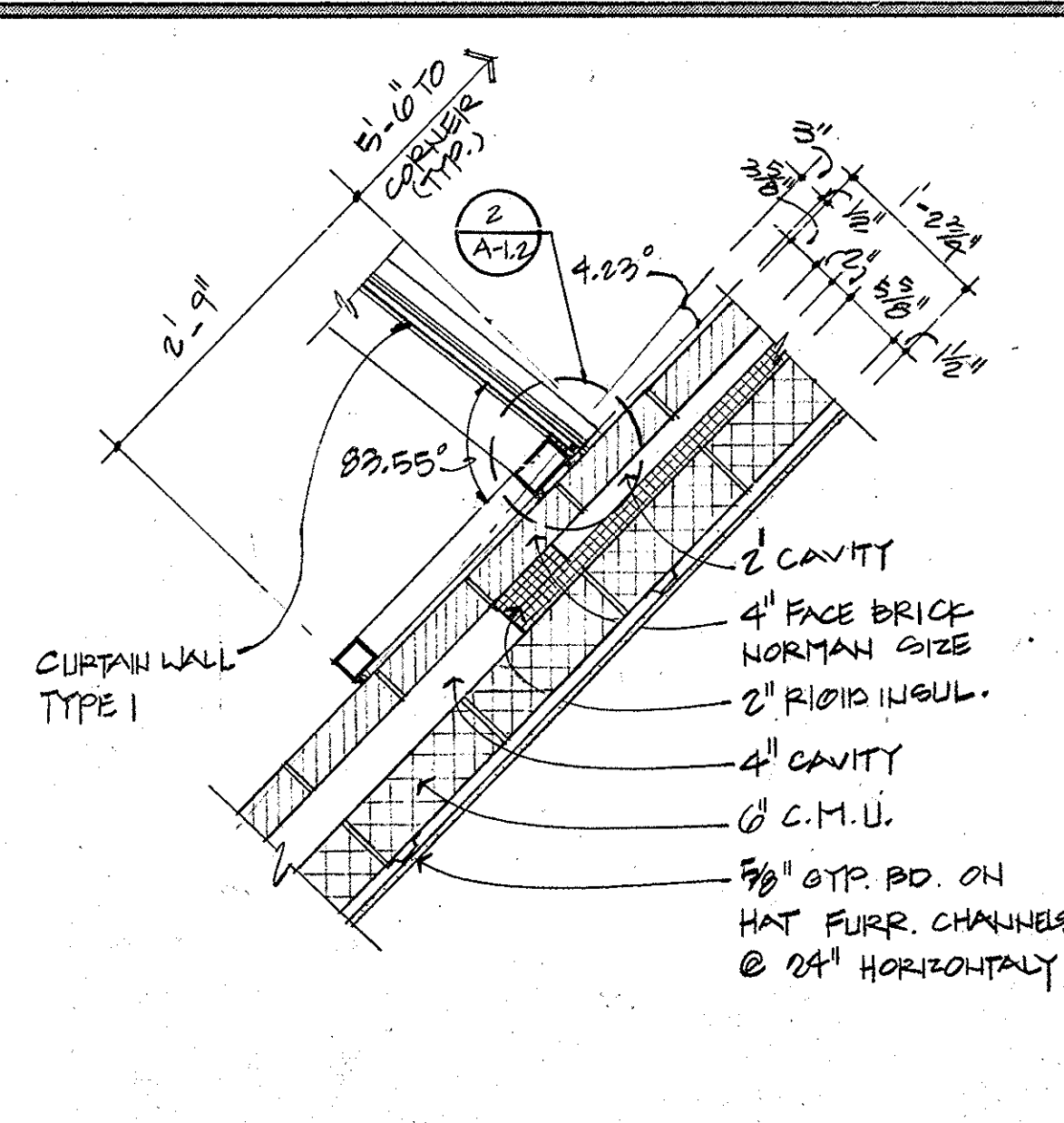




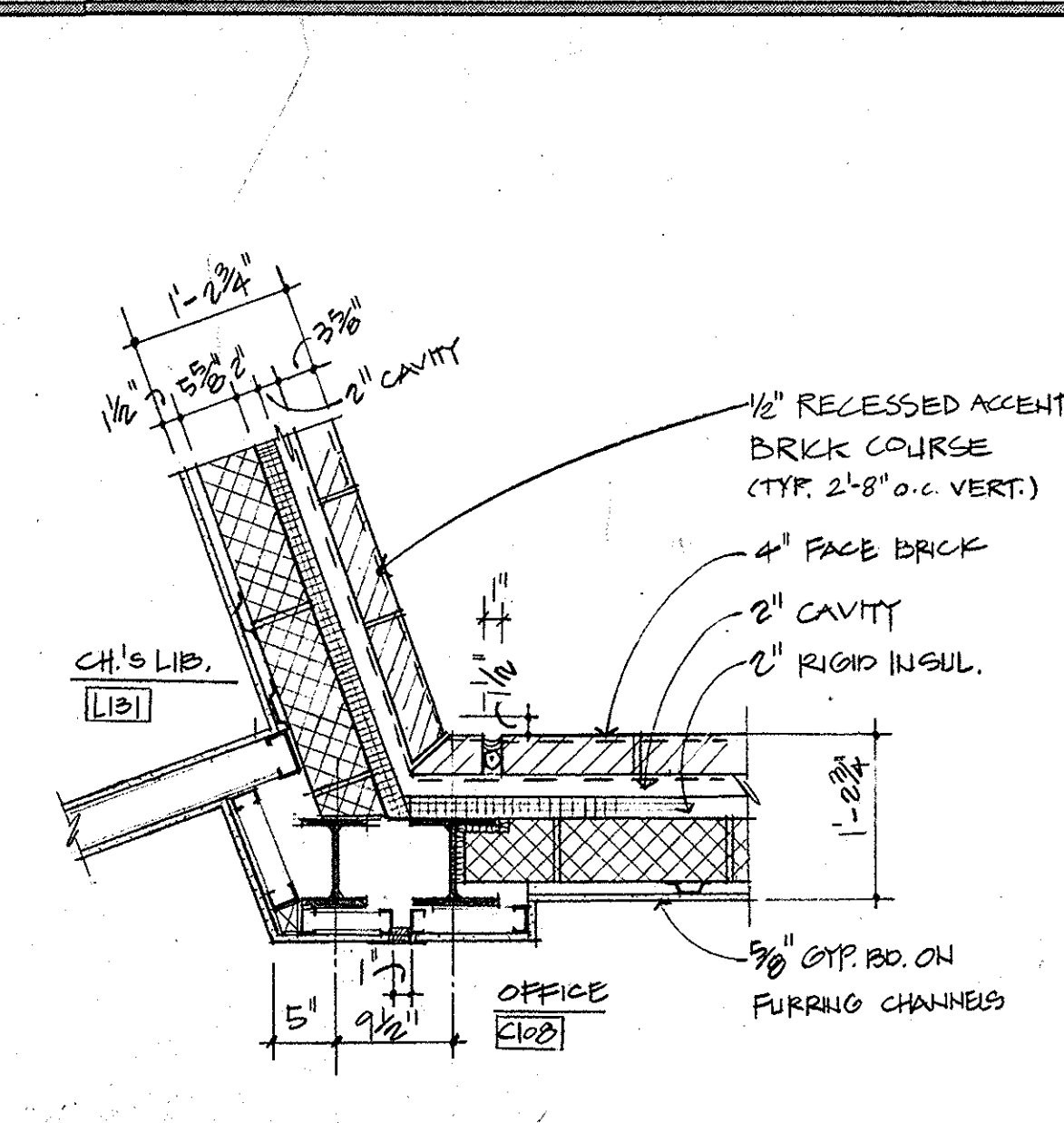
20 PLAN DETAIL SCALE: 3/4" = 1'-0"



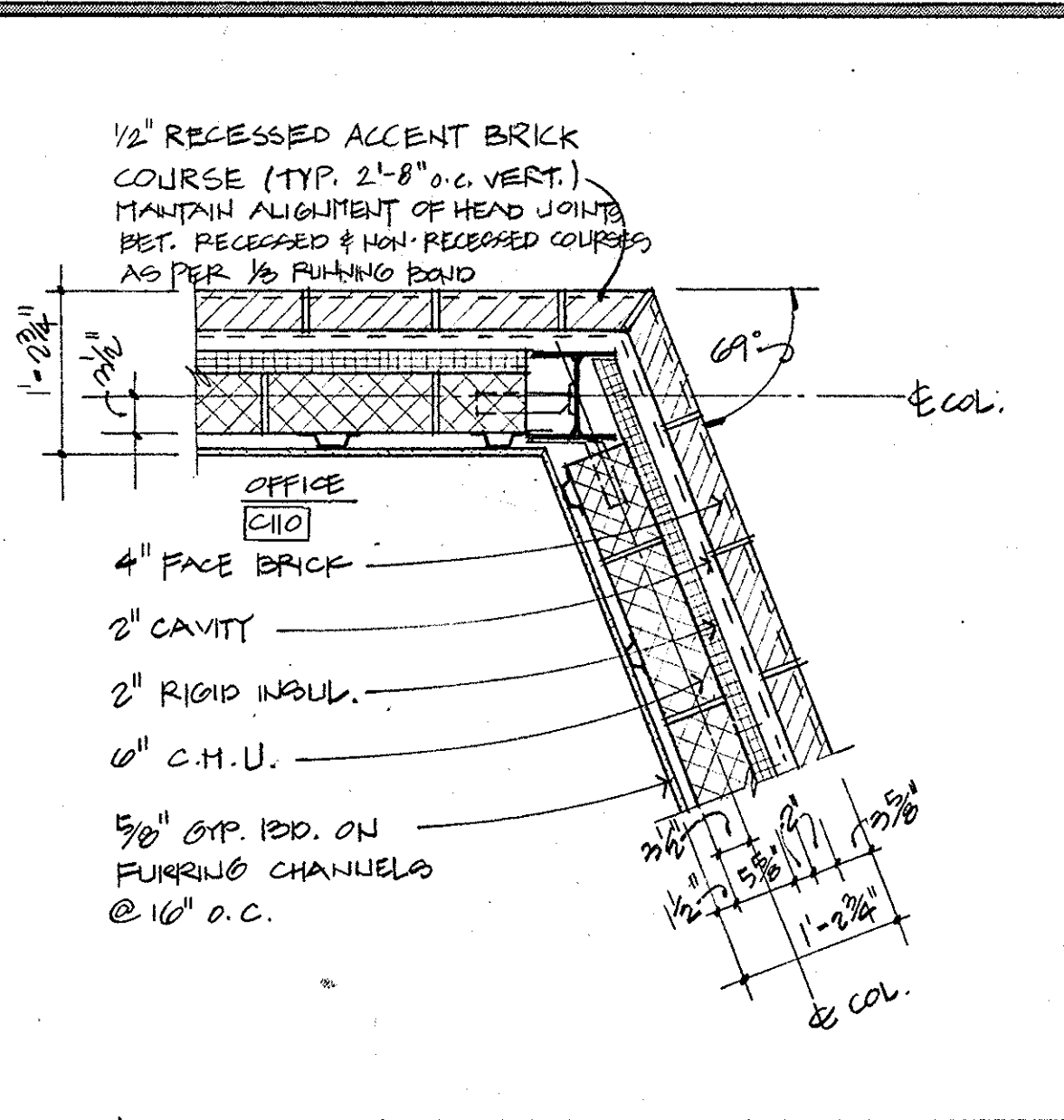
19 PLAN DETAIL SCALE: 3/4" = 1'-0"



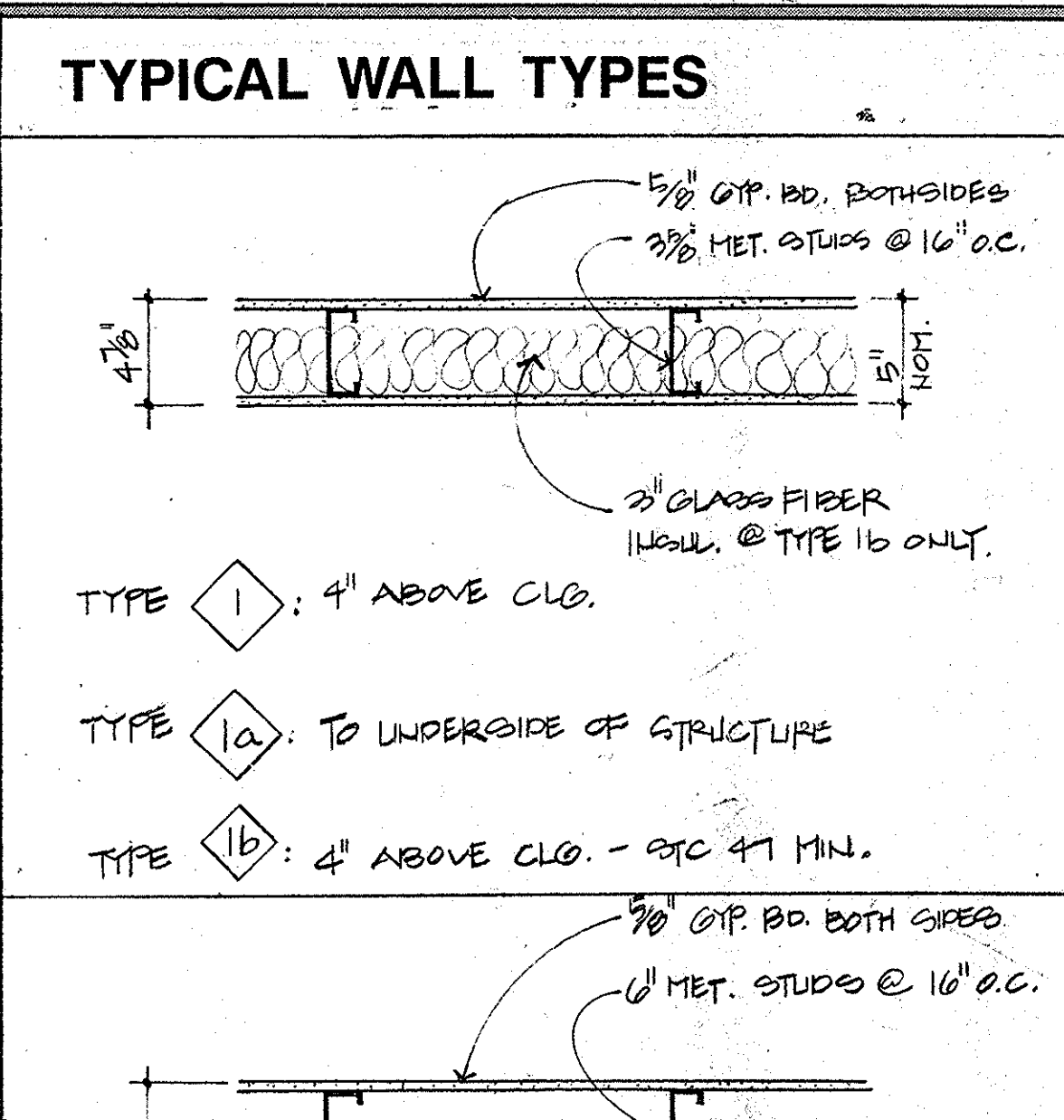
18 PLAN DETAIL SCALE: 3/4" = 1'-0"



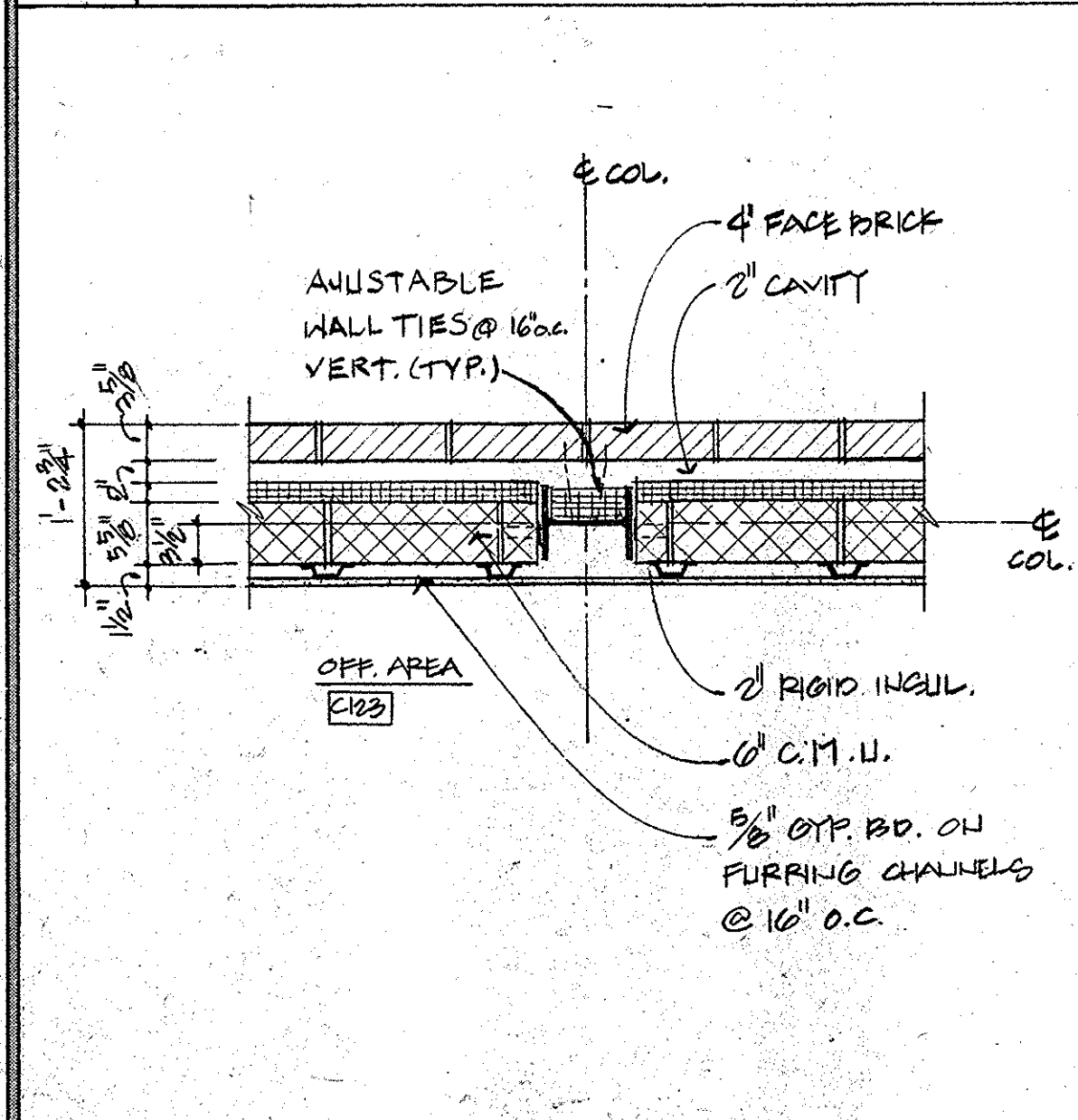
17 PLAN DETAIL SCALE: 3/4" = 1'-0"



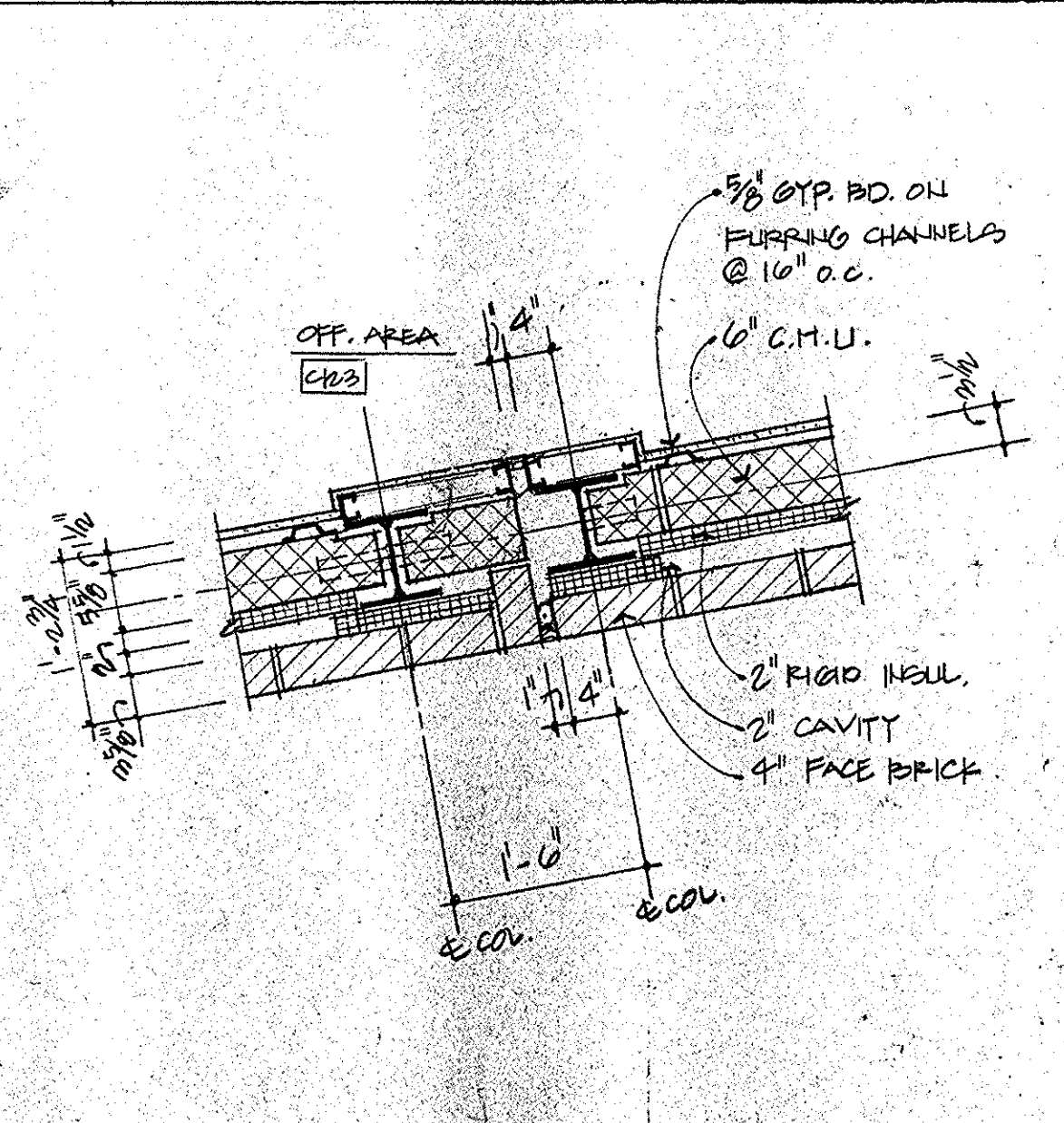
16 PLAN DETAIL SCALE: 3/4" = 1'-0"



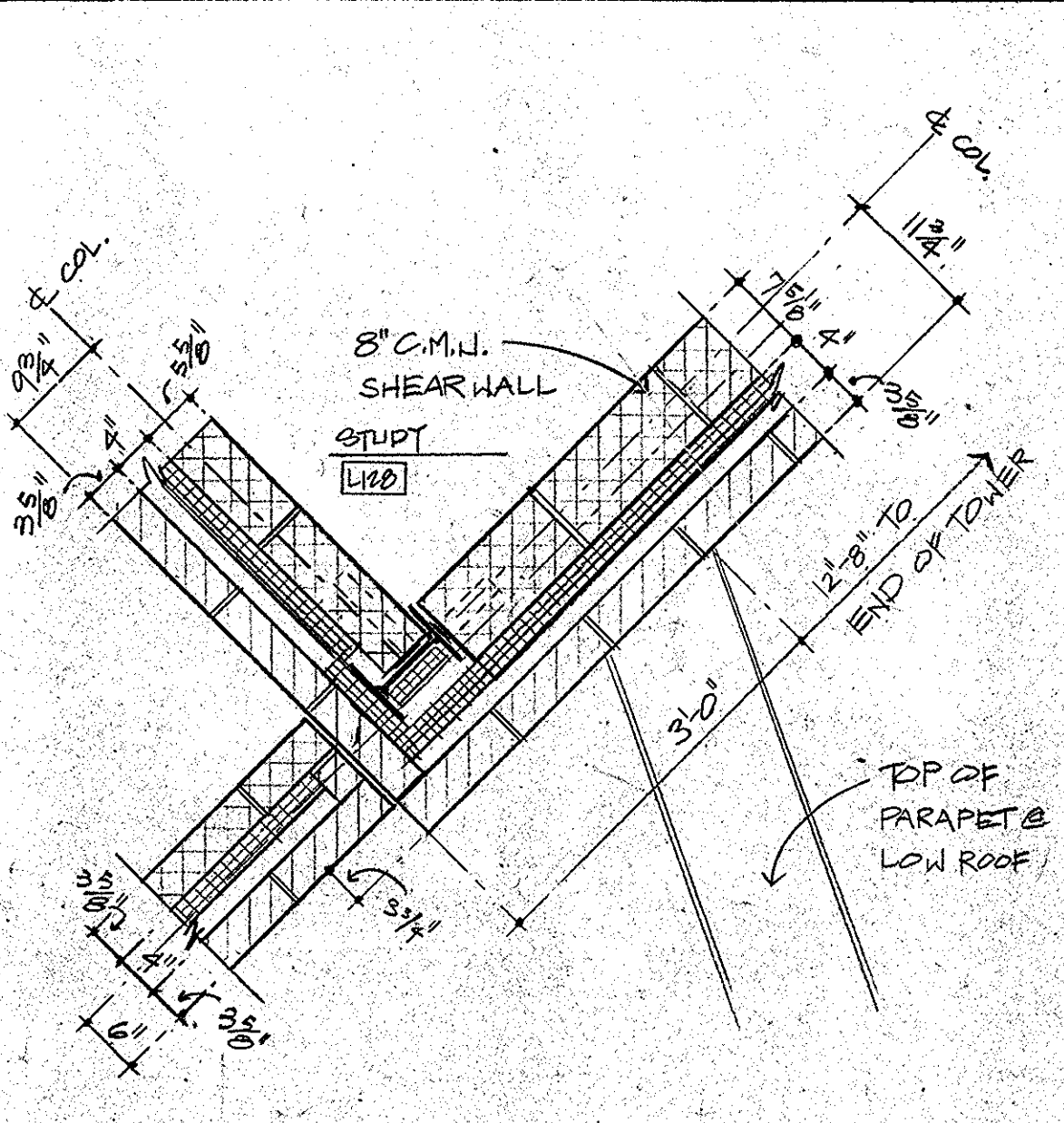
TYPICAL WALL TYPES



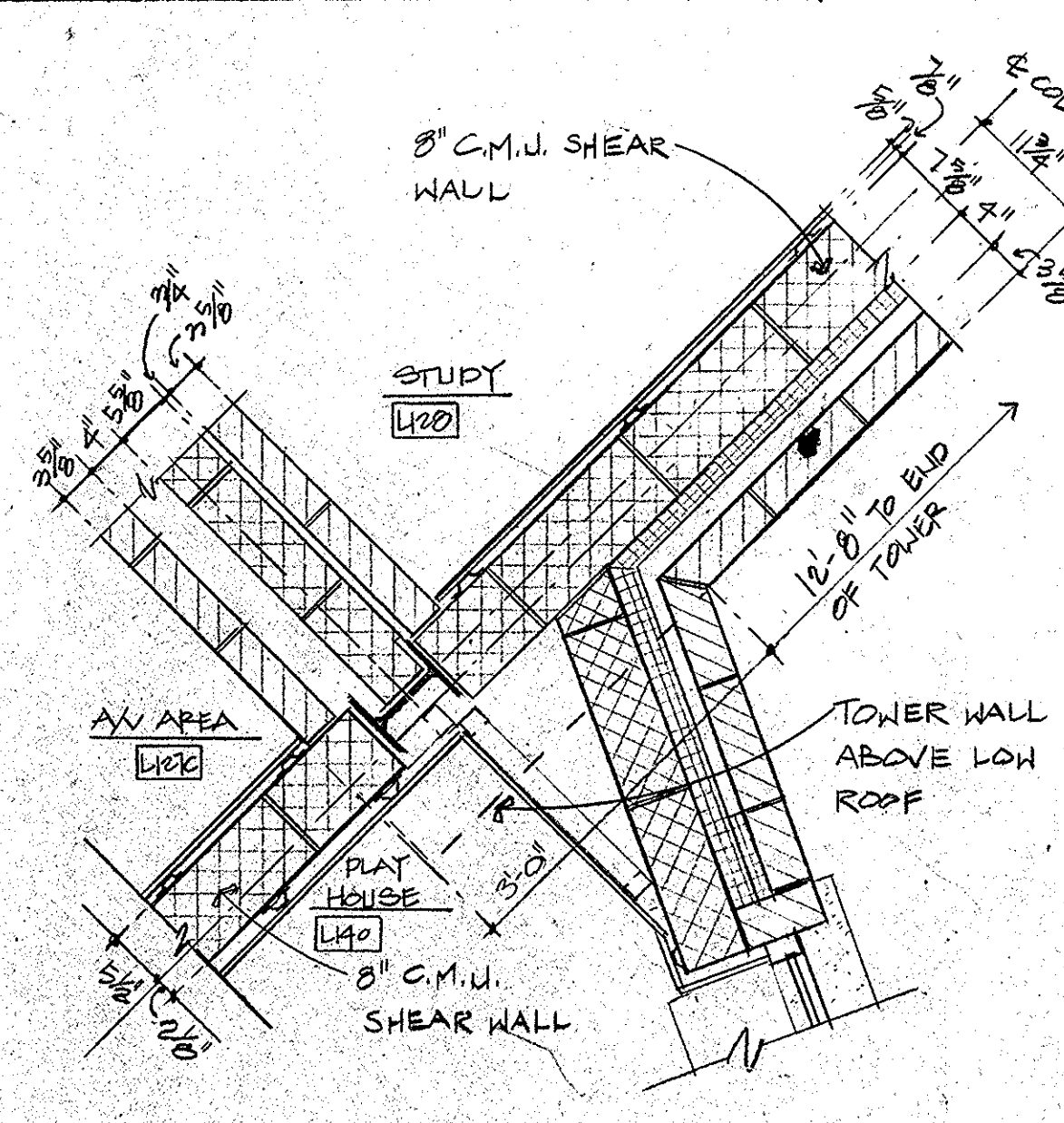
15 PLAN DETAIL SCALE: 3/4" = 1'-0"



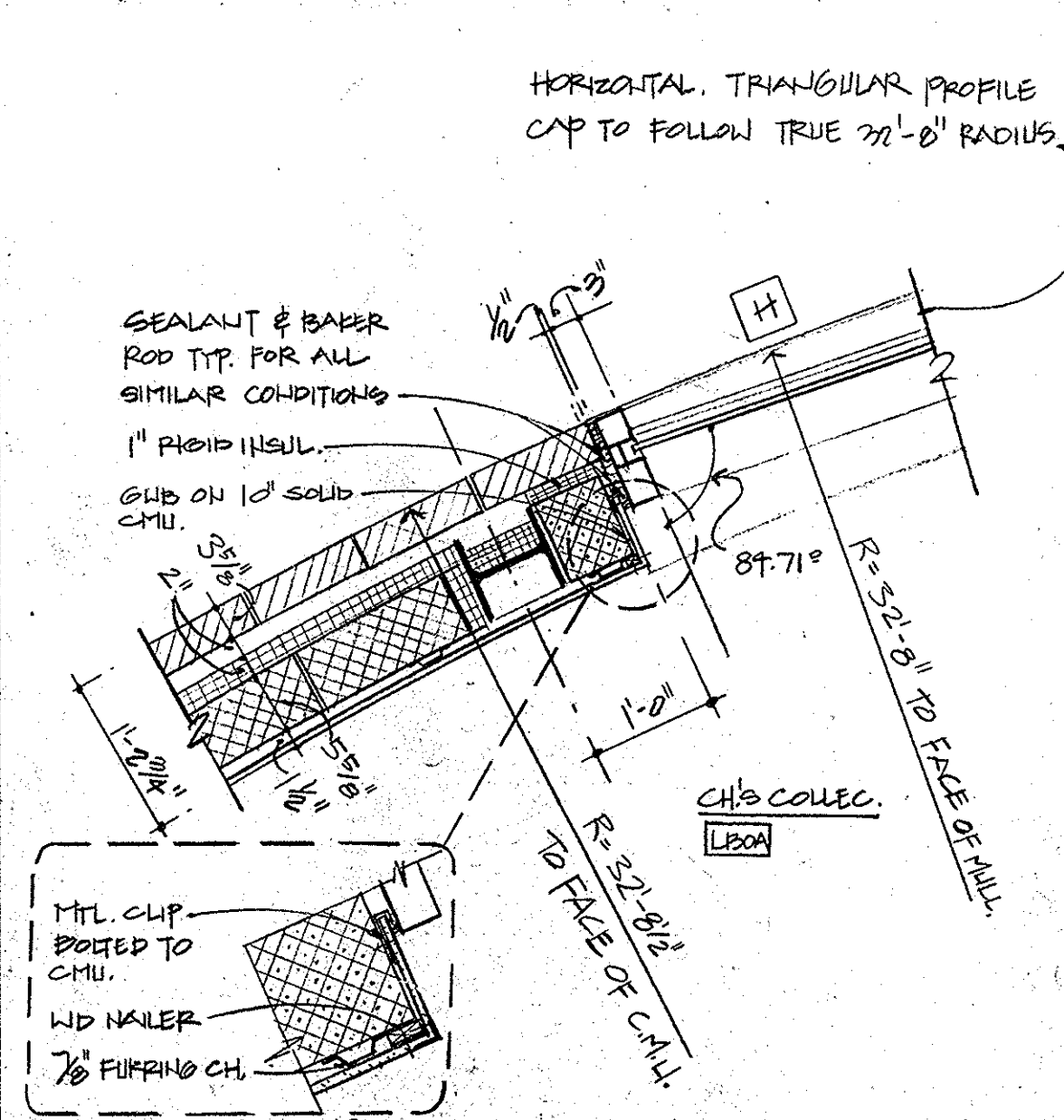
14 PLAN DETAIL SCALE: 3/4" = 1'-0"



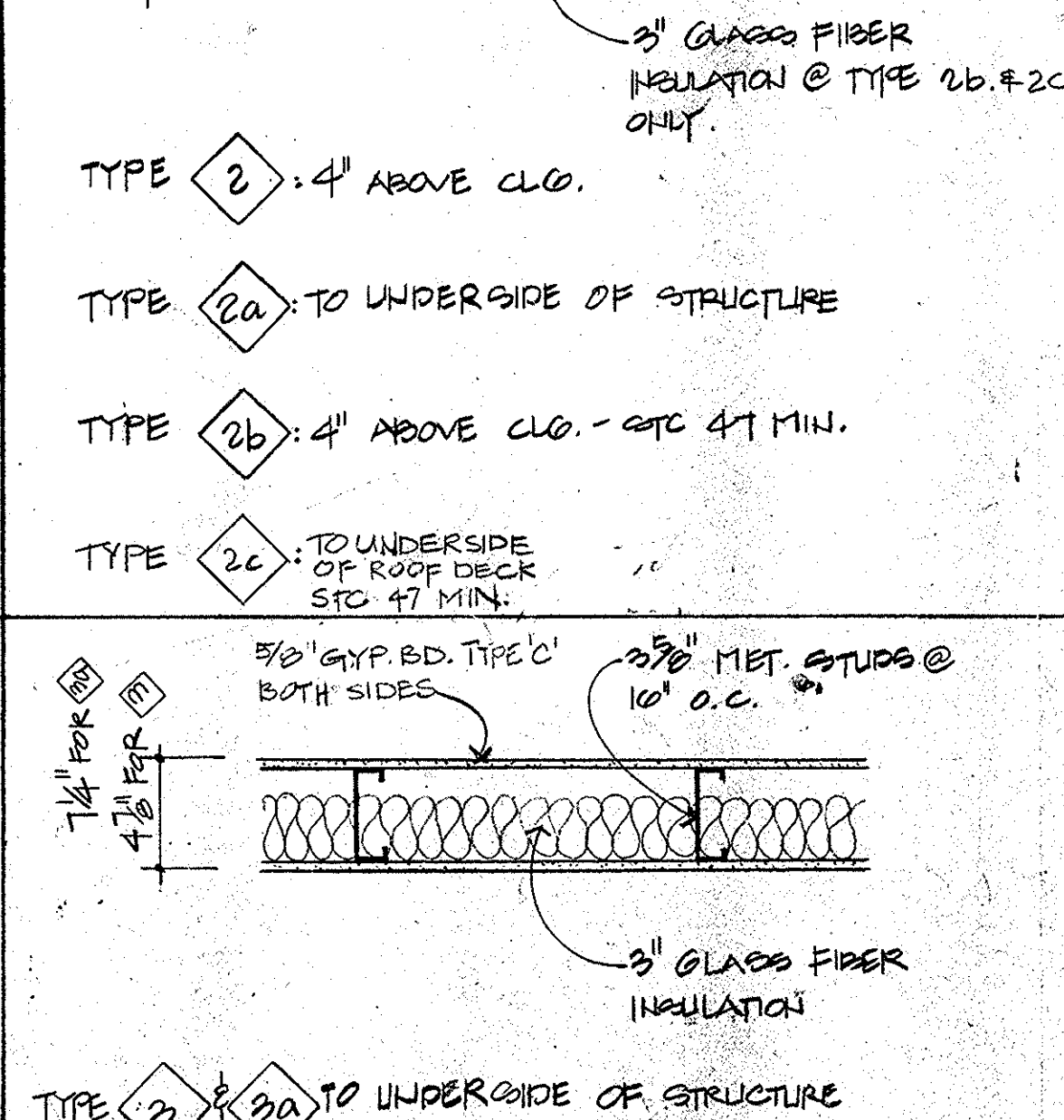
13 PLAN DETAIL @ 20'-0" AFF. SCALE: 3/4" = 1'-0"



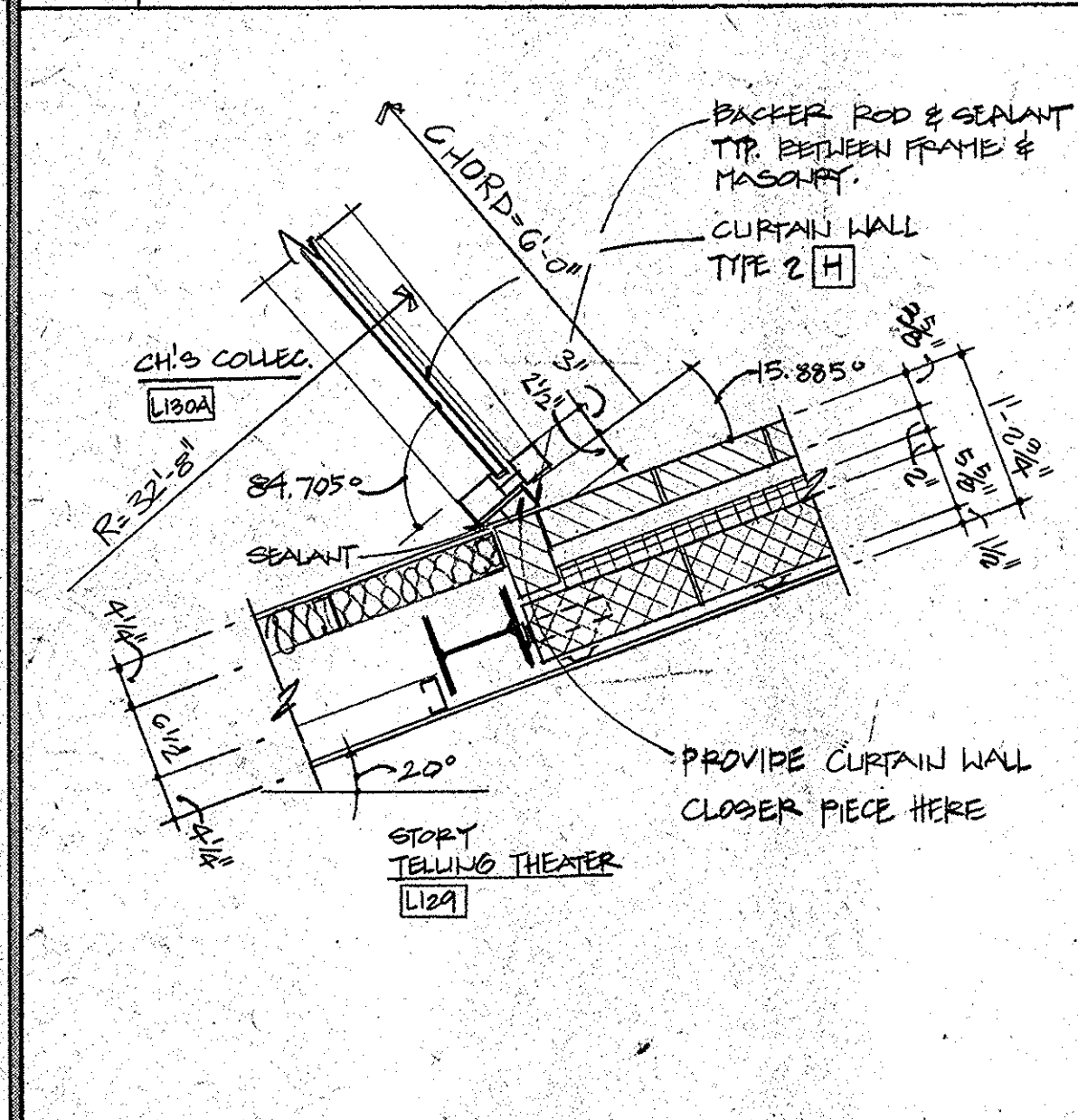
12 PLAN DETAIL SCALE: 3/4" = 1'-0"



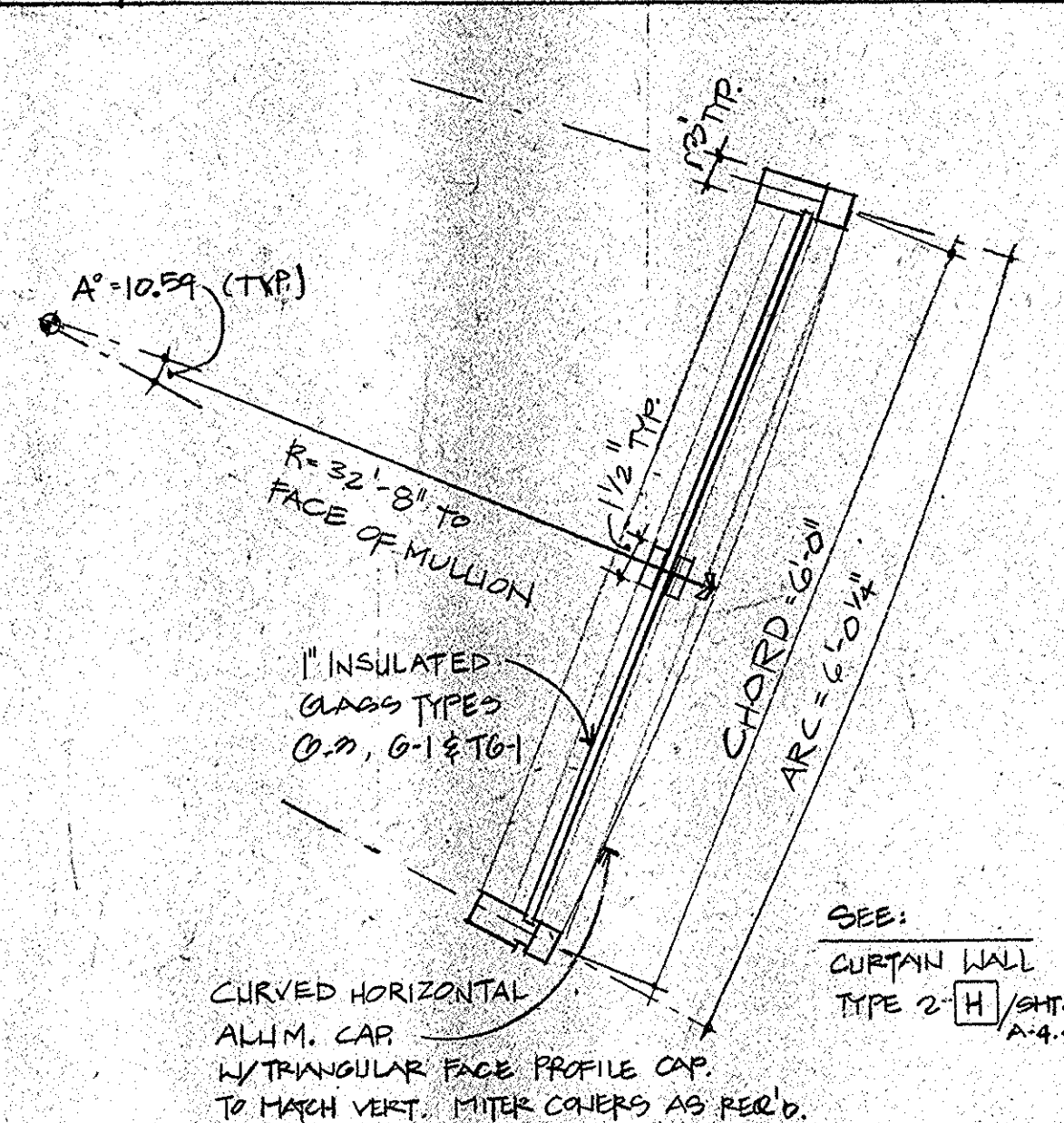
11 PLAN DETAIL SCALE: 3/4" = 1'-0"



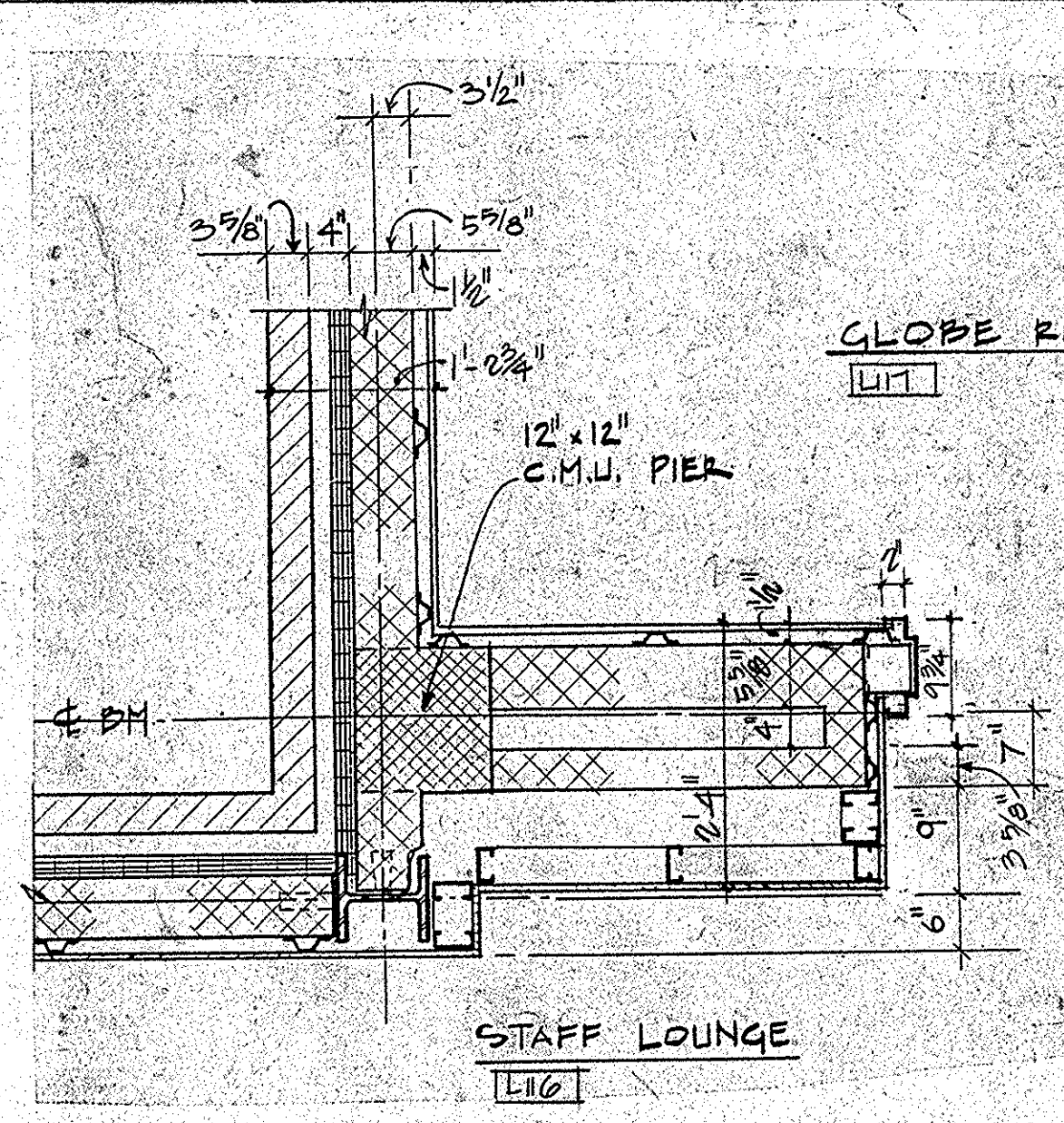
TYPICAL WALL TYPES



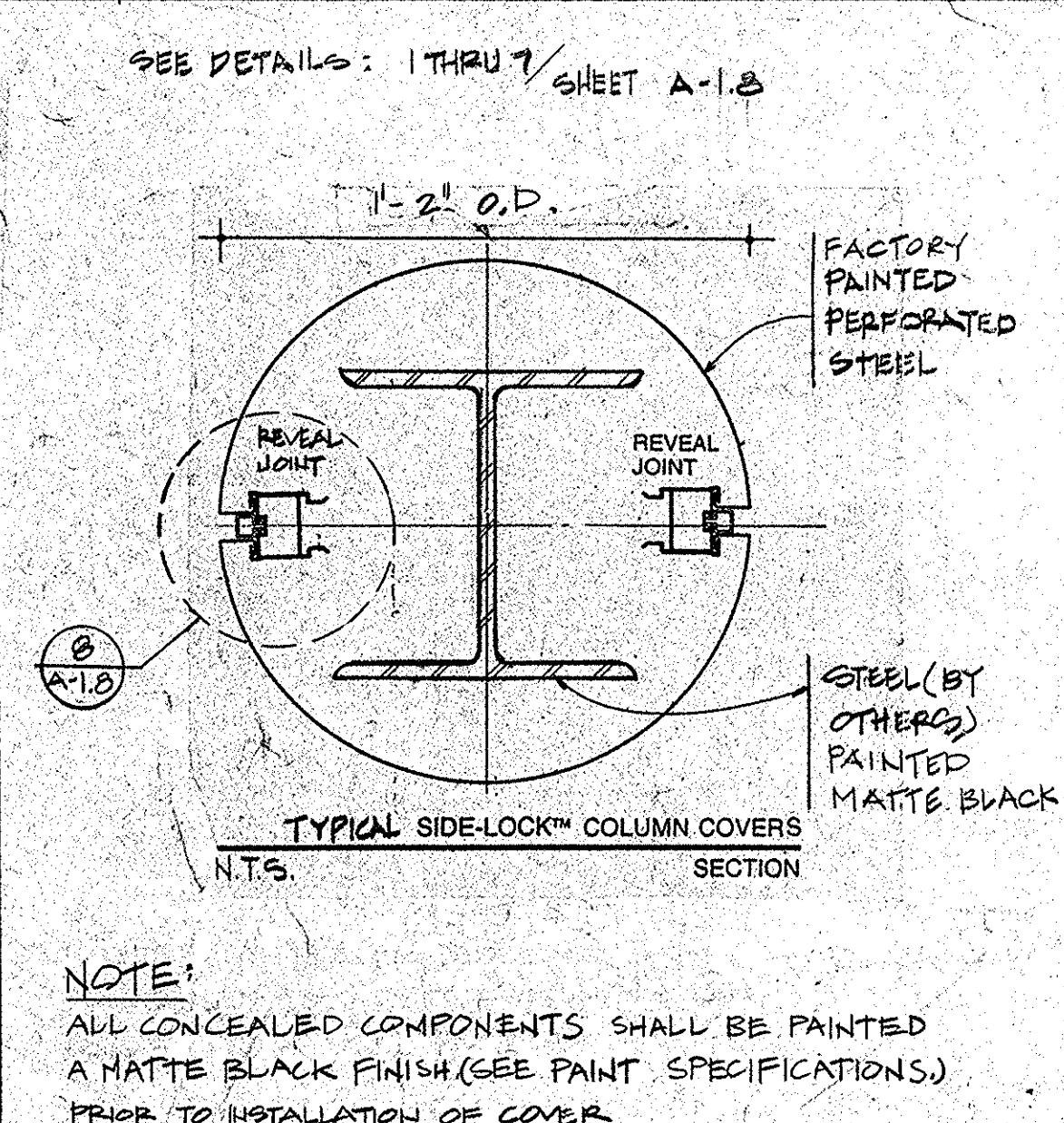
10 PLAN DETAIL SCALE: 3/4" = 1'-0"



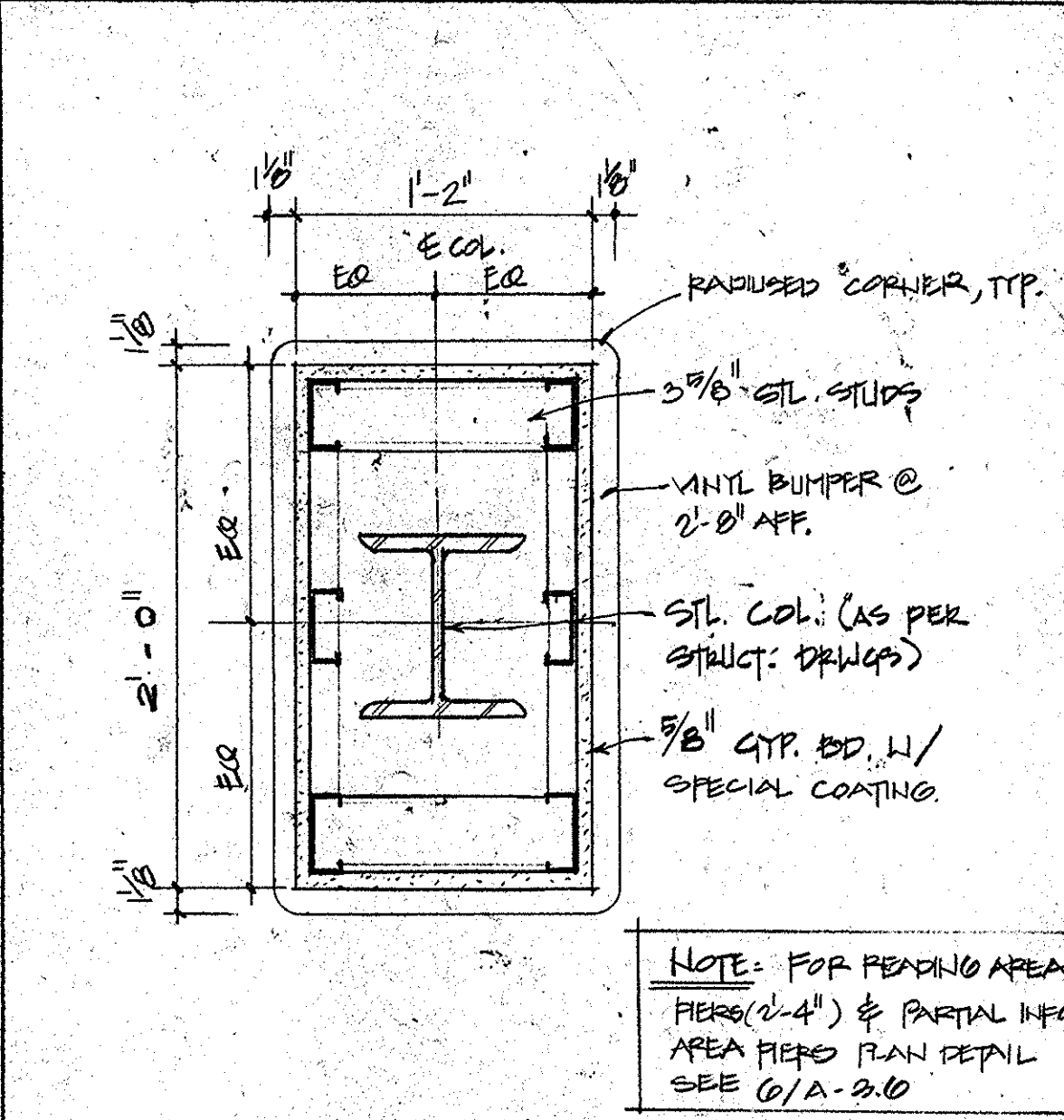
9 PLAN DETAIL SCALE: 3/4" = 1'-0"



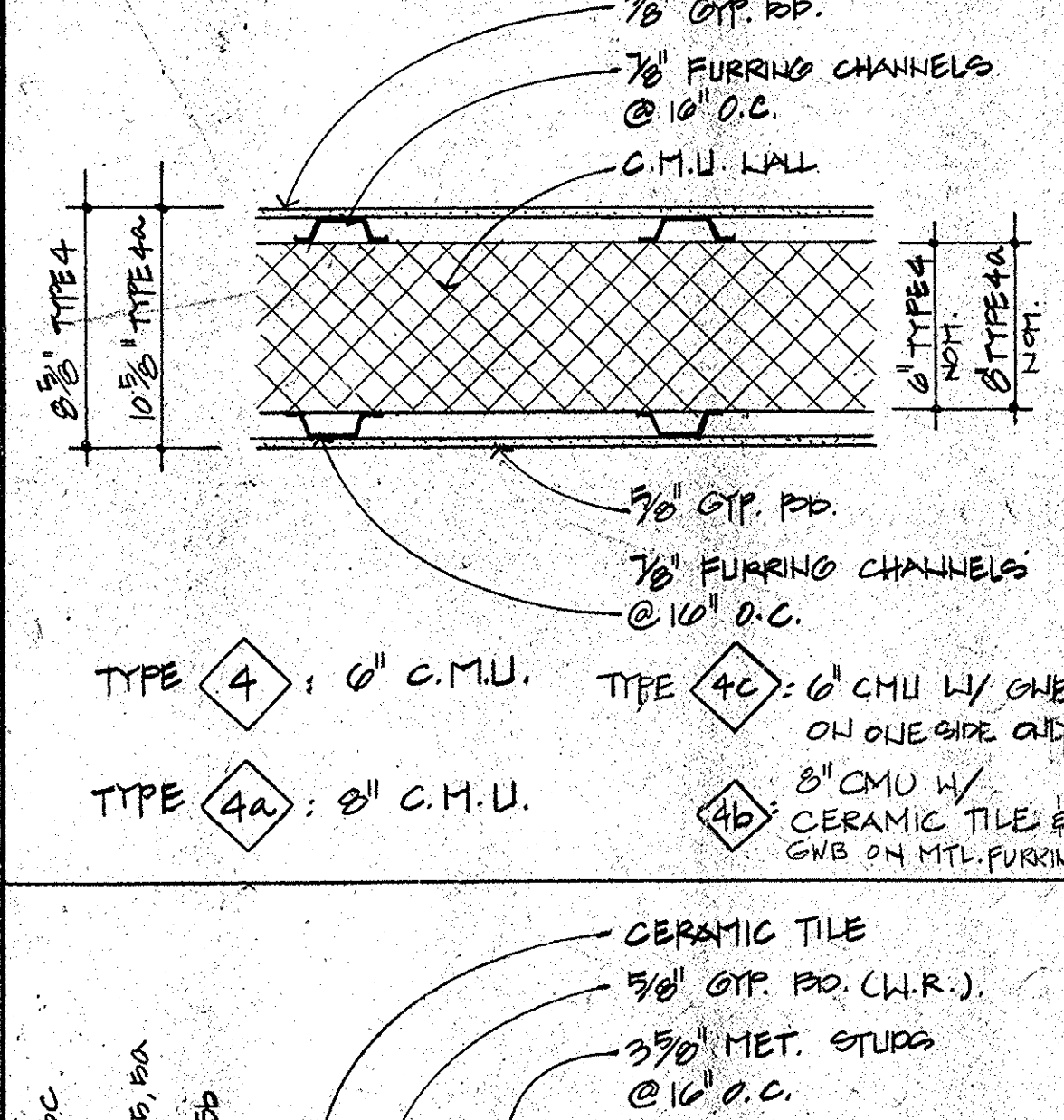
8 PLAN DETAIL SCALE: 3/4" = 1'-0"



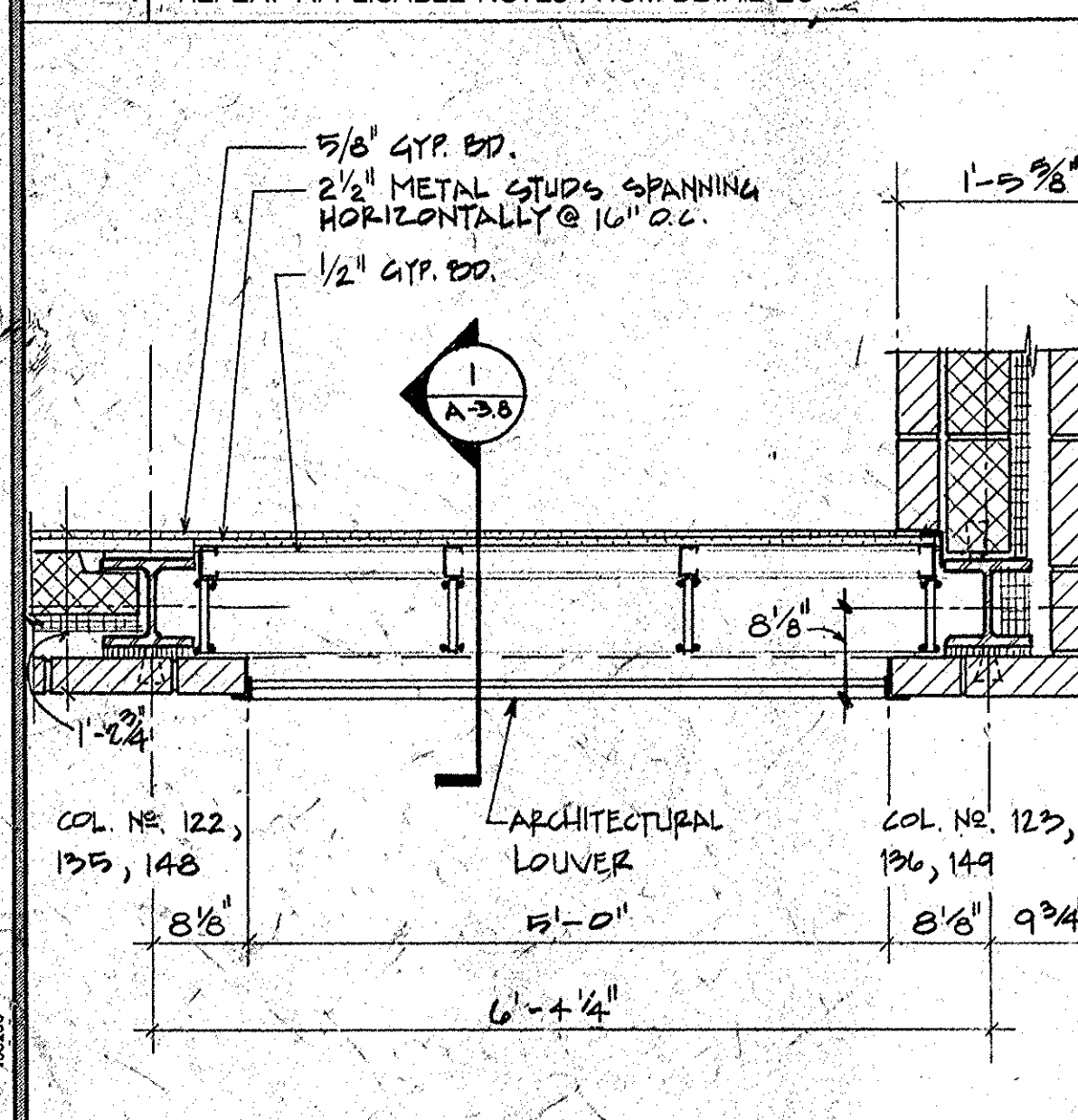
7 PLAN DETAIL: COLUMN COVER N.T.S.



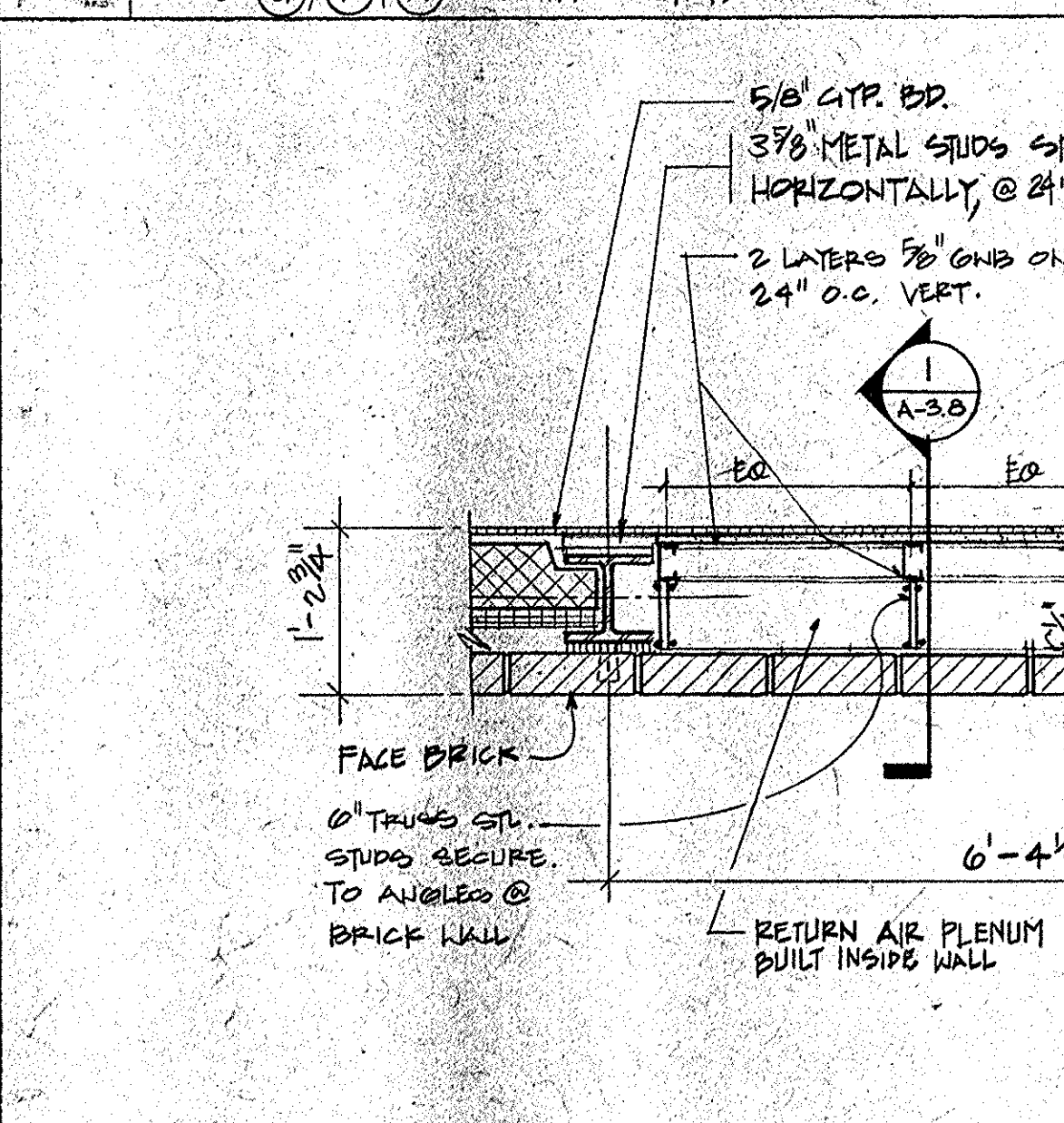
6 PLAN DETAIL: TYPICAL PIER SCALE: 1 1/2" = 1'-0"



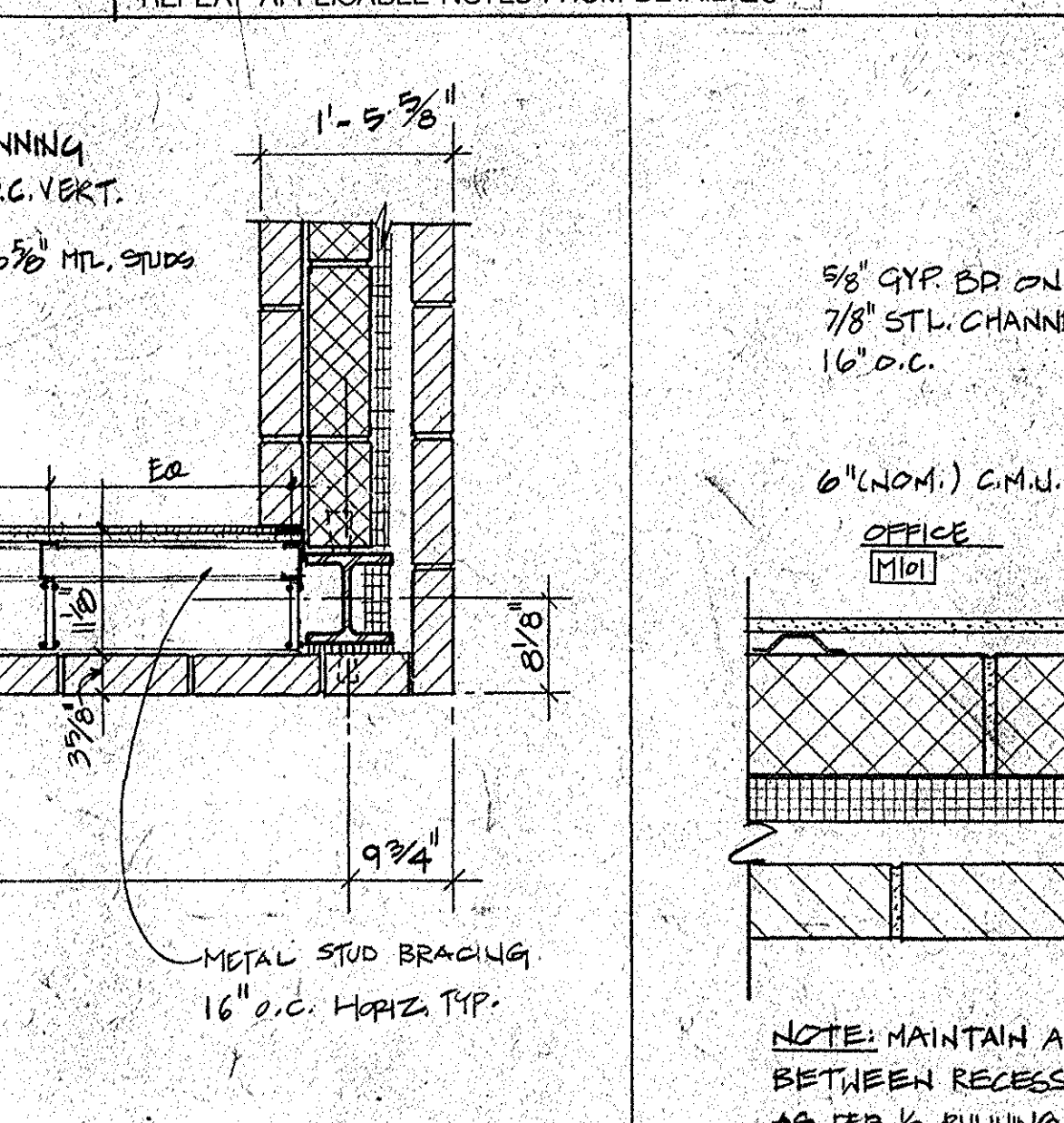
TYPICAL WALL TYPES



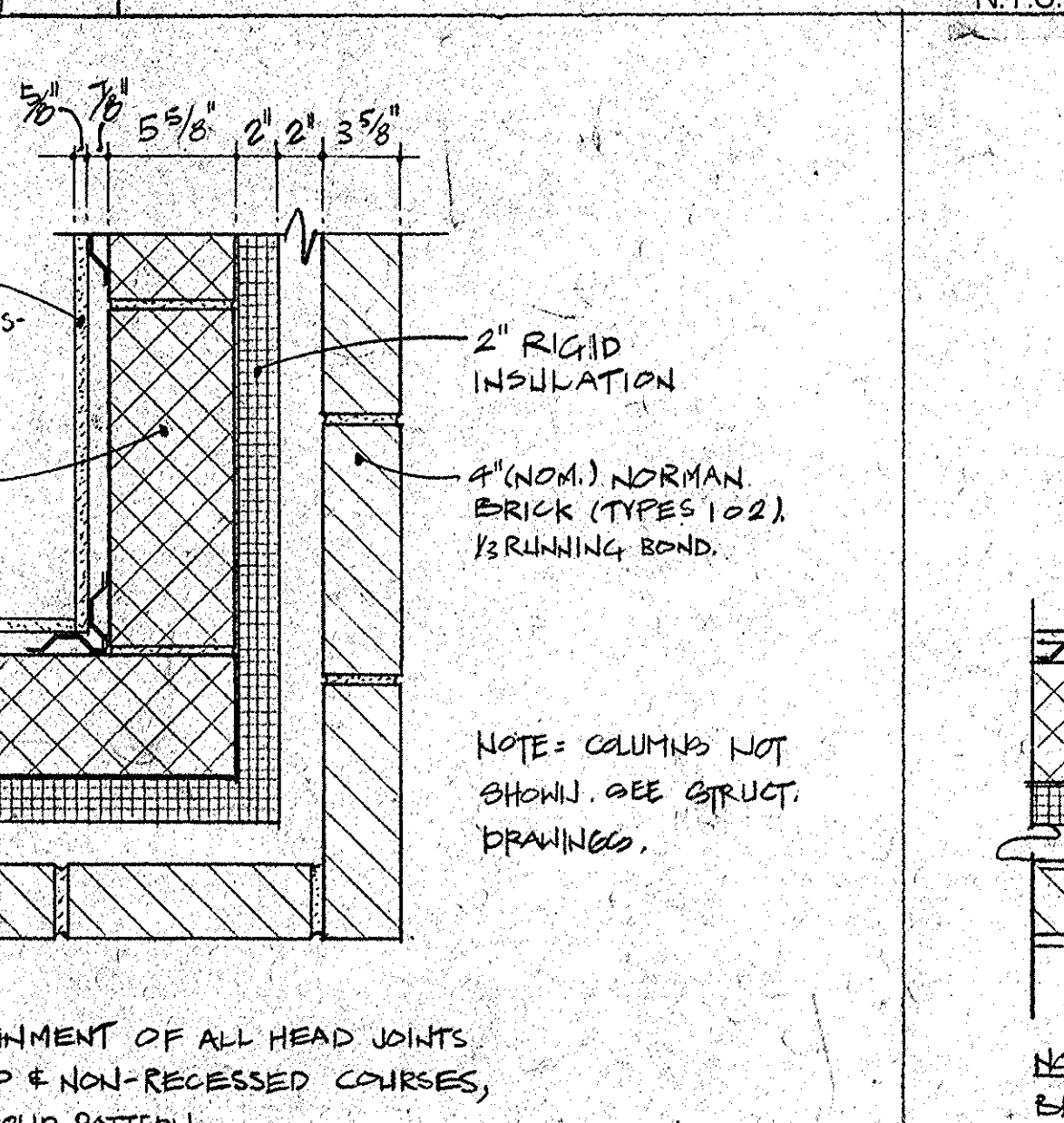
5 PLAN DETAIL R.M.S. L-121, L-124 & L-125 SCALE: 3/4" = 1'-0"



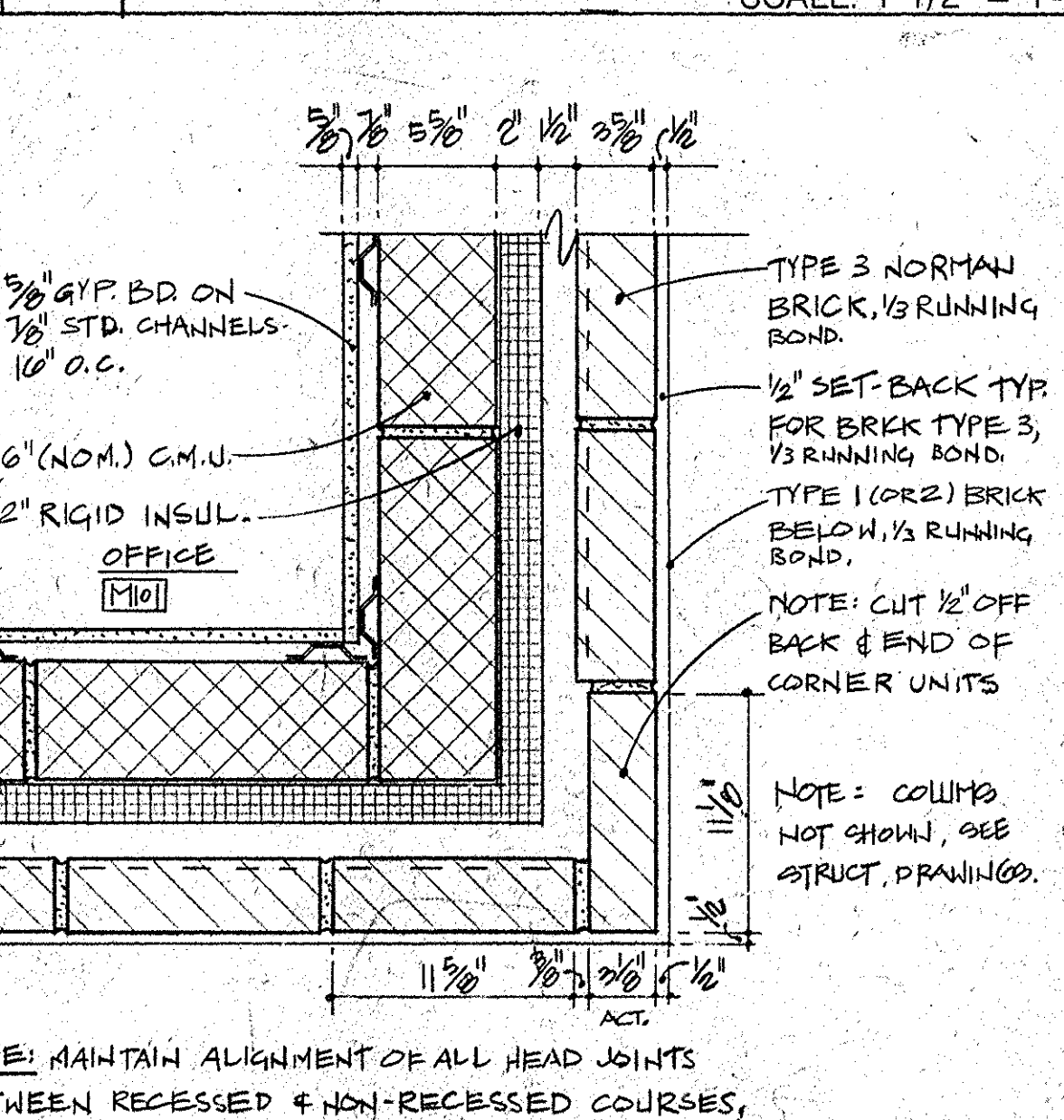
4 PLAN DETAIL R.M.S. L-121, L-124, & L-125 SCALE: 3/4" = 1'-0"



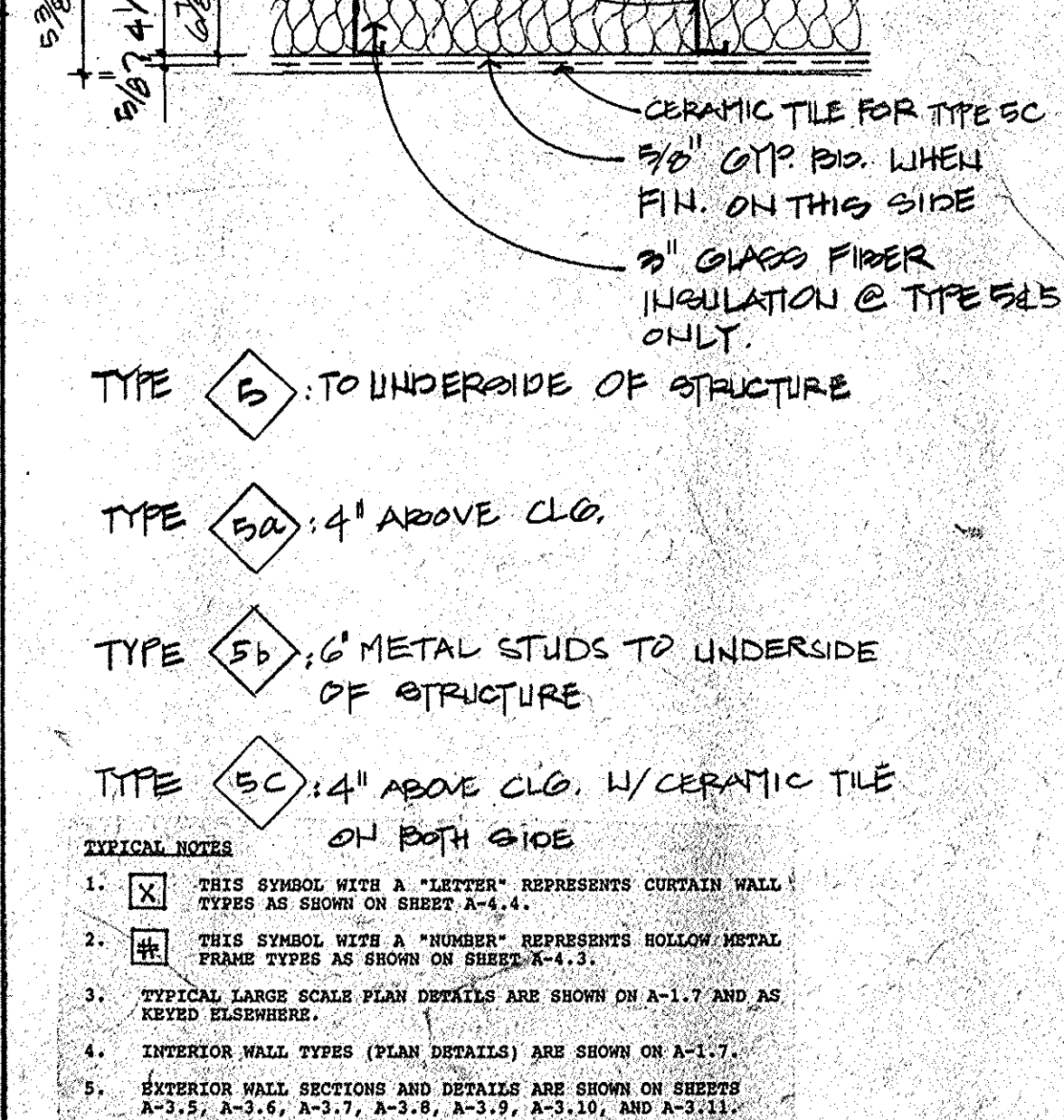
3 PLAN THRU BRICK TYPE 1 SCALE: 1 1/2" = 1'-0"



2 PLAN THRU BRICK TYPE 3 SCALE: 1 1/2" = 1'-0"

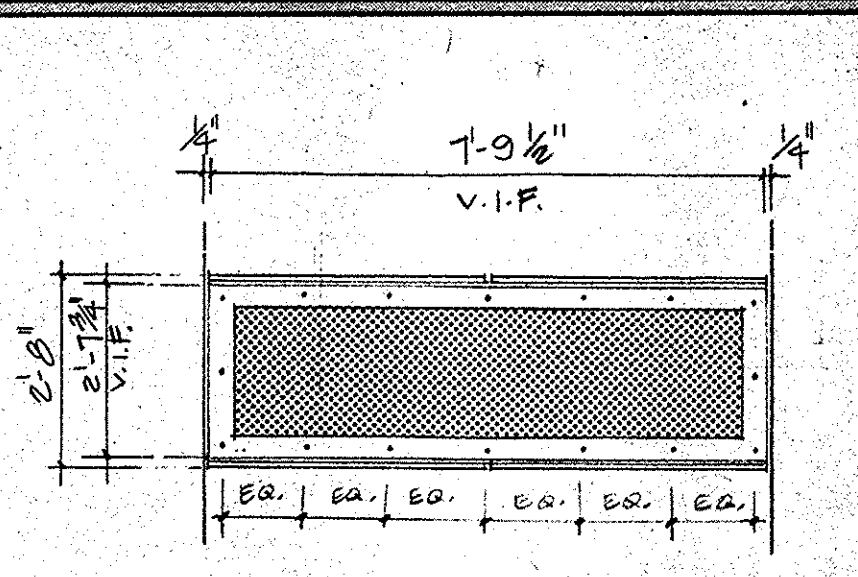


2 PLAN THRU BRICK TYPE 3 SCALE: 1 1/2" = 1'-0"

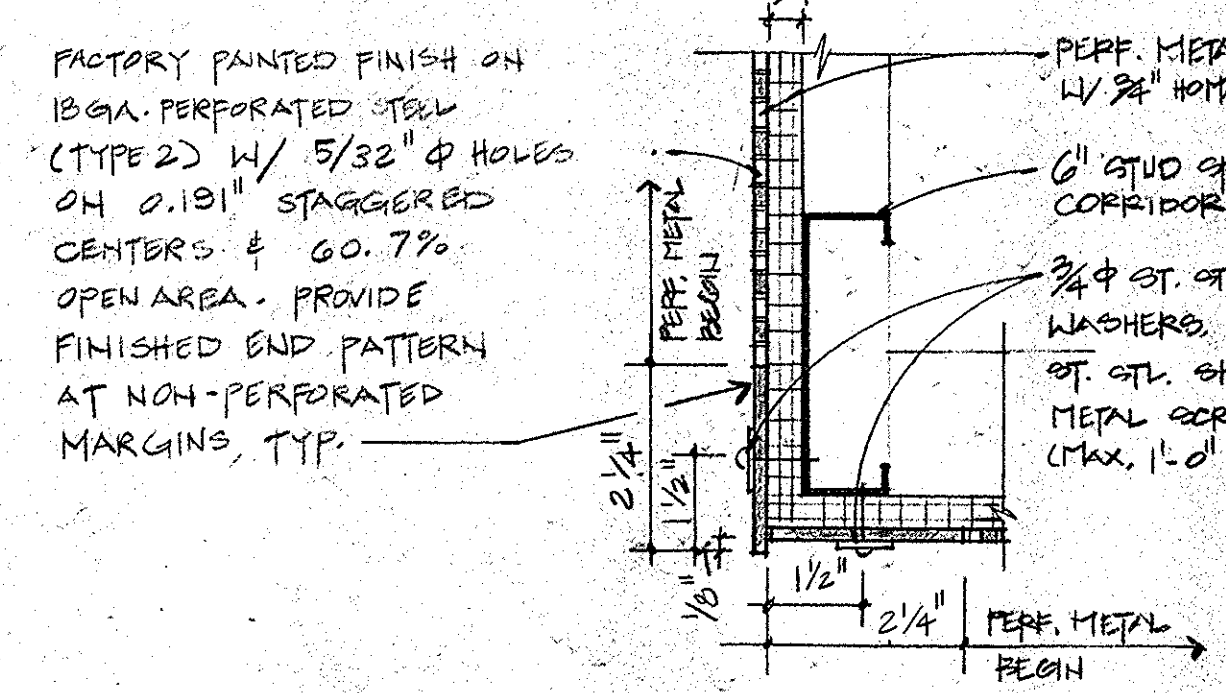


TYPICAL WALL TYPES

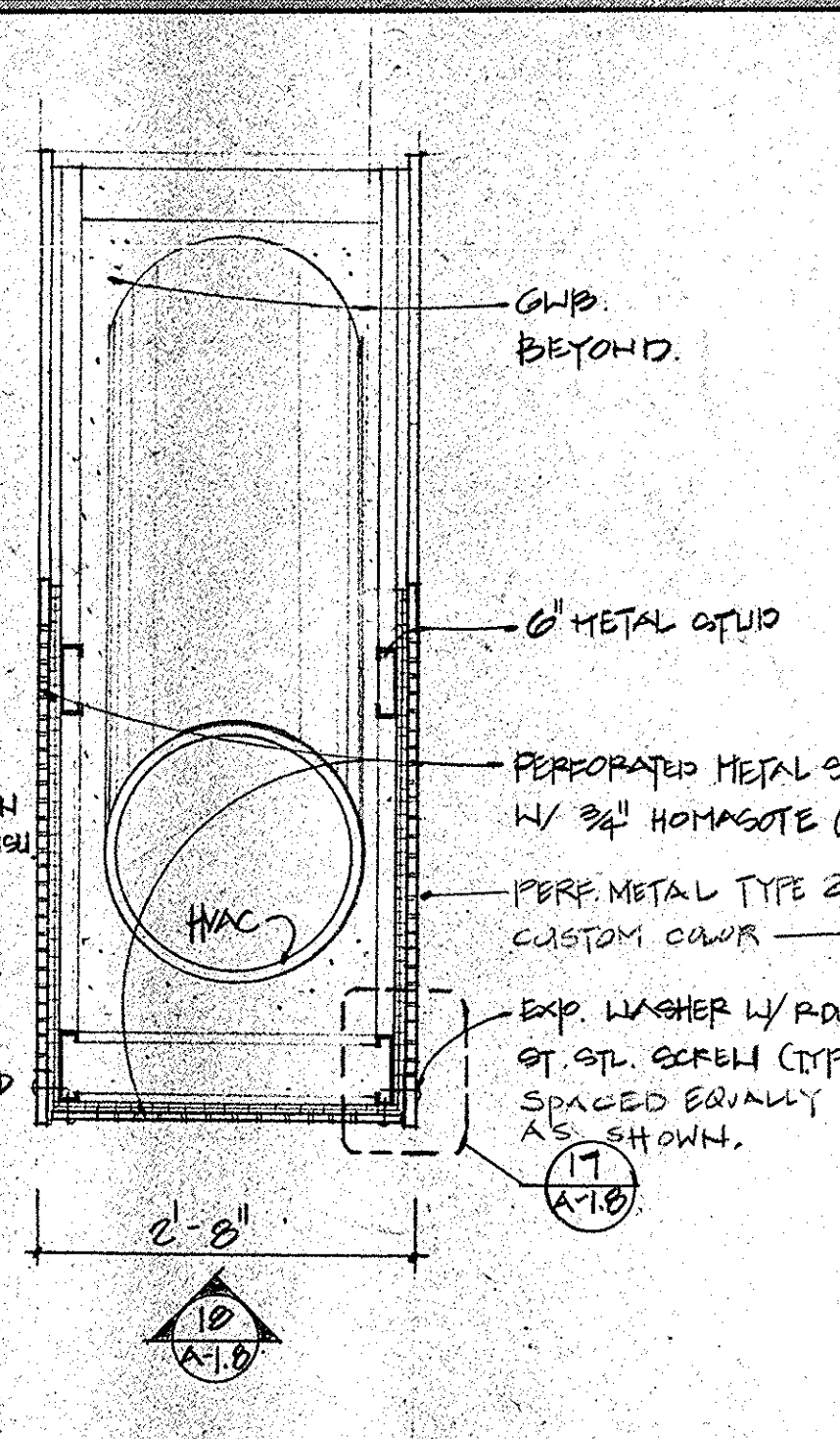
GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS FOR INTERFERING TRADES AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.



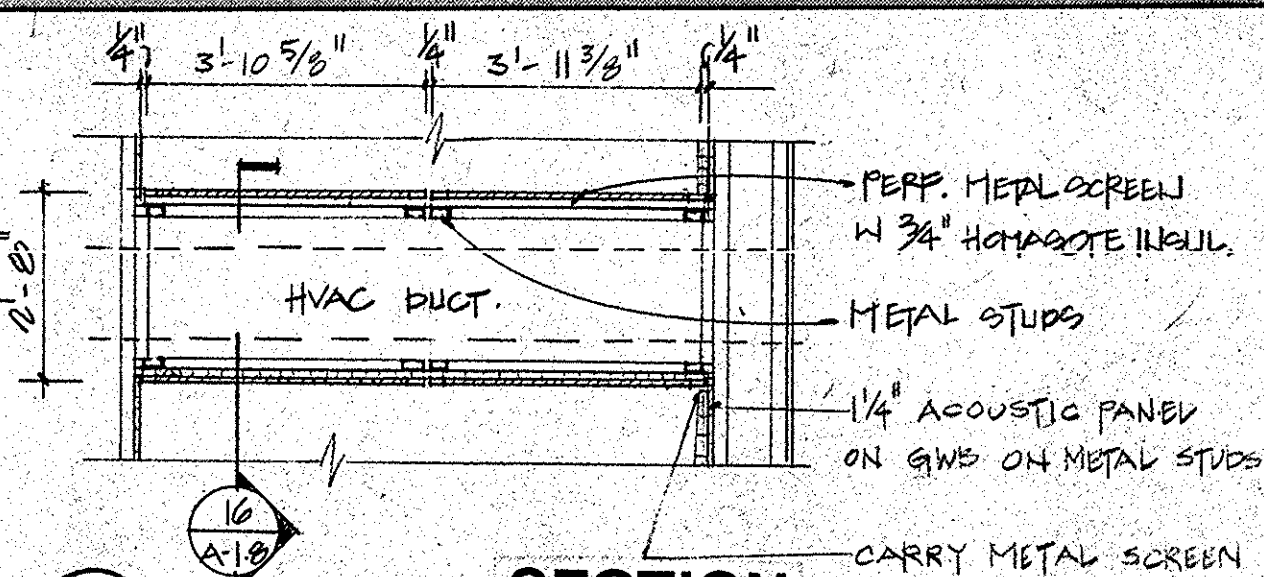
18 BOT. PANEL ELEV.  
SCALE: 3/8" = 1'-0"



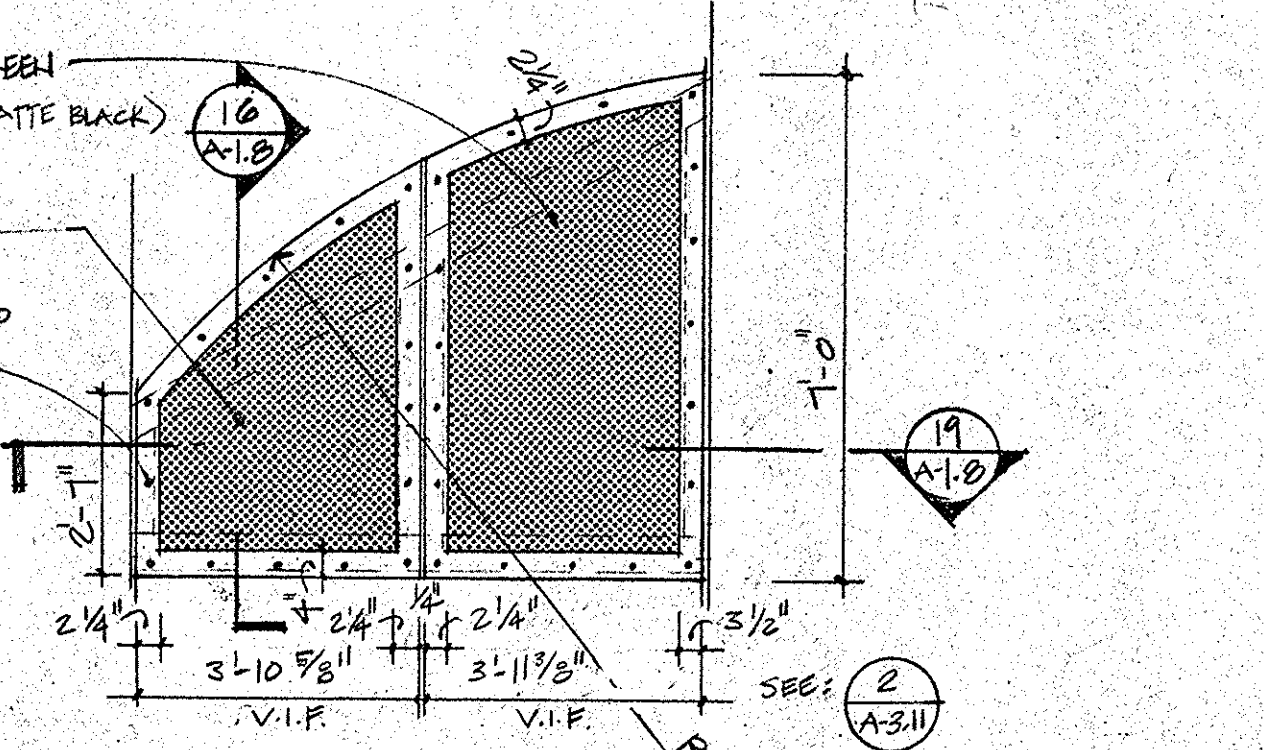
17 DETAIL  
SCALE: 3" = 1'-0"



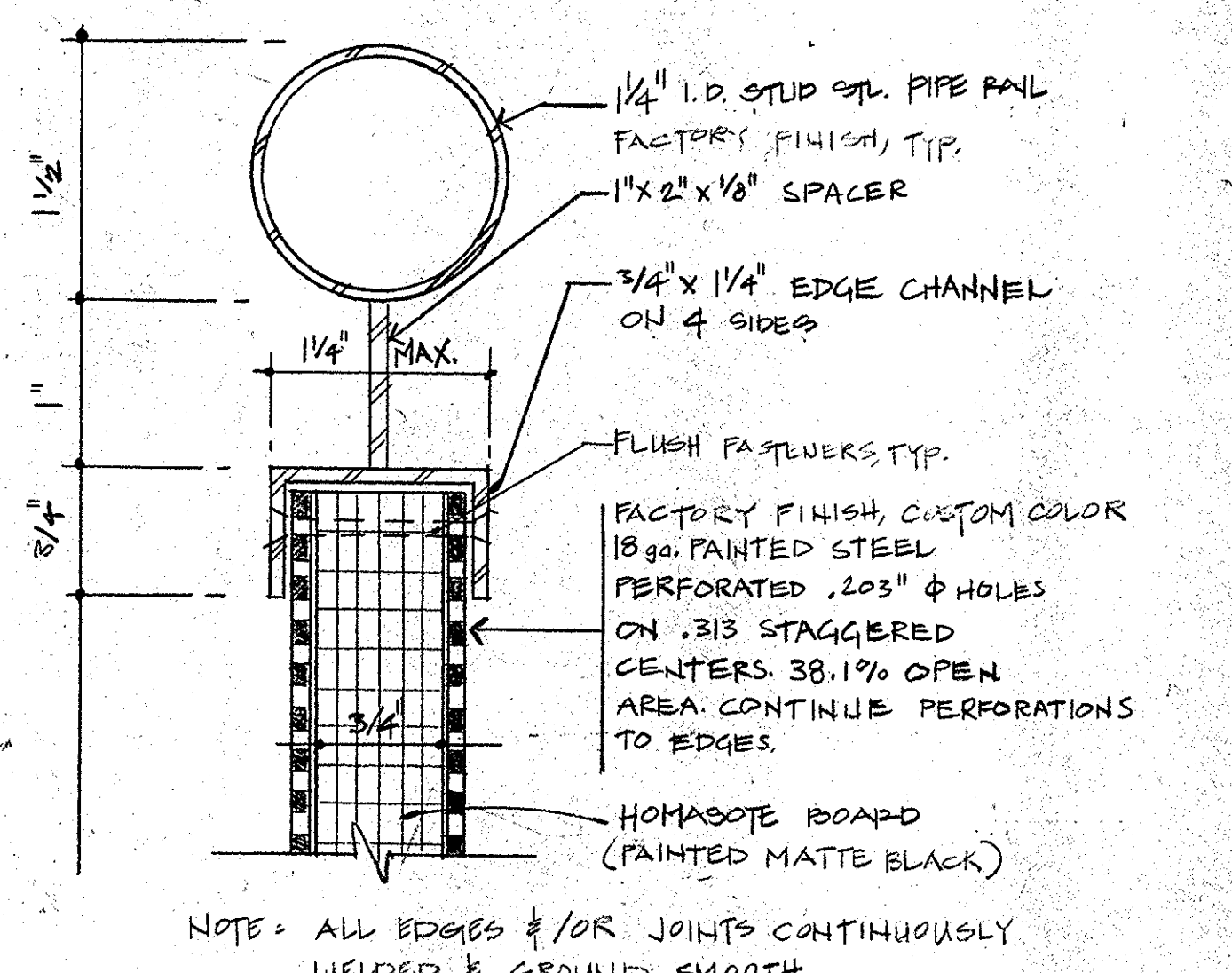
16 SECTION  
SCALE: 3/4" = 1'-0"



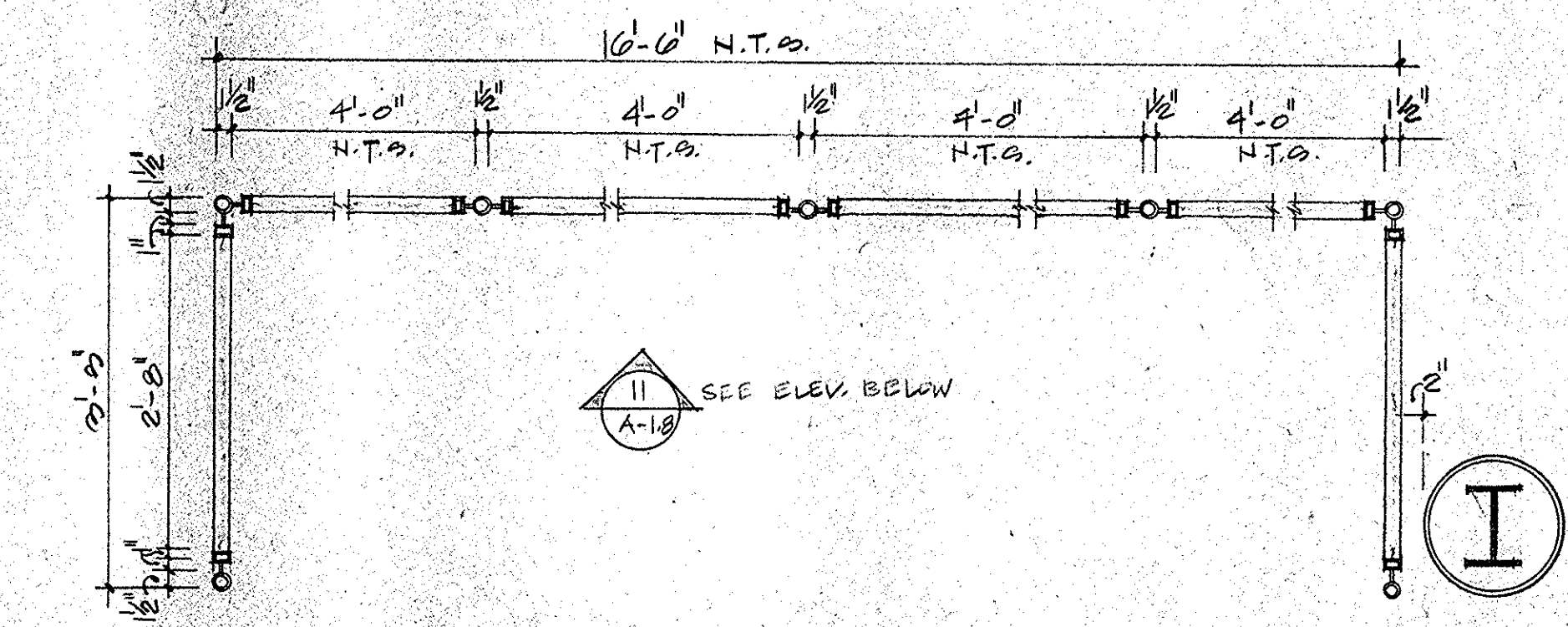
19 SECTION  
SCALE: 3/8" = 1'-0"



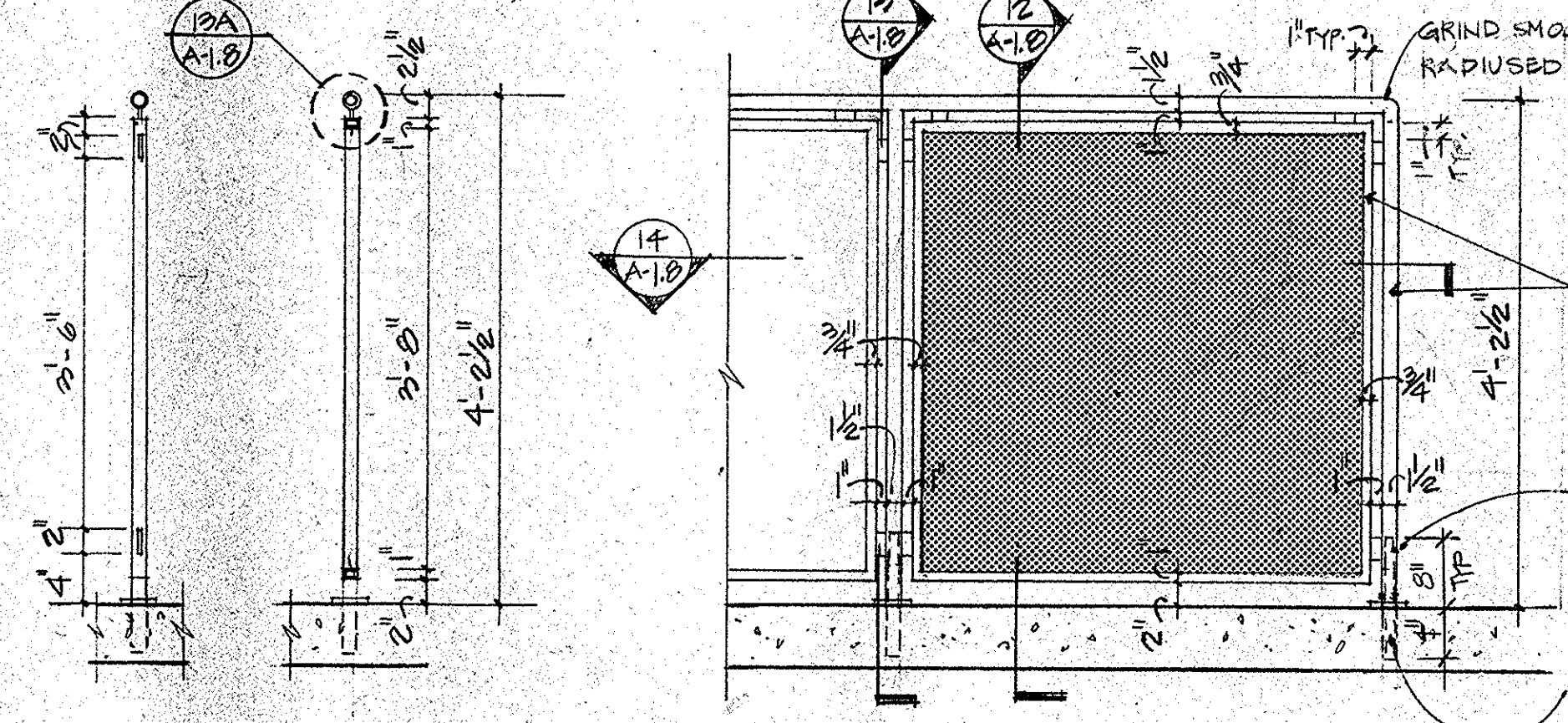
15 SCREEN ELEV. @ BLKHD  
SCALE: 3/8" = 1'-0"



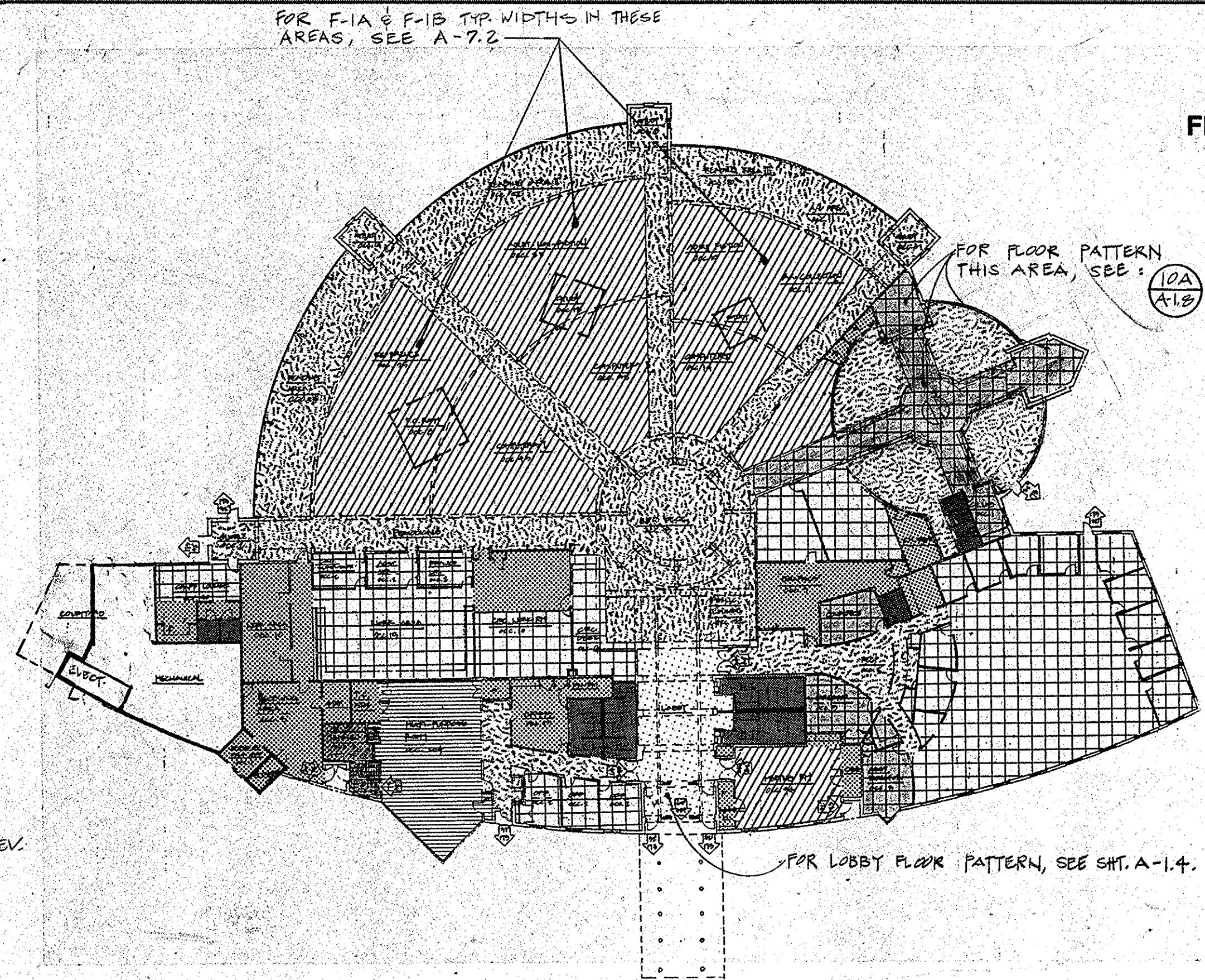
13A DETAIL  
SCALE: 1" = 1'-0"



14 SCREEN PLAN DETAIL  
SCALE: 3/4" = 1'-0"



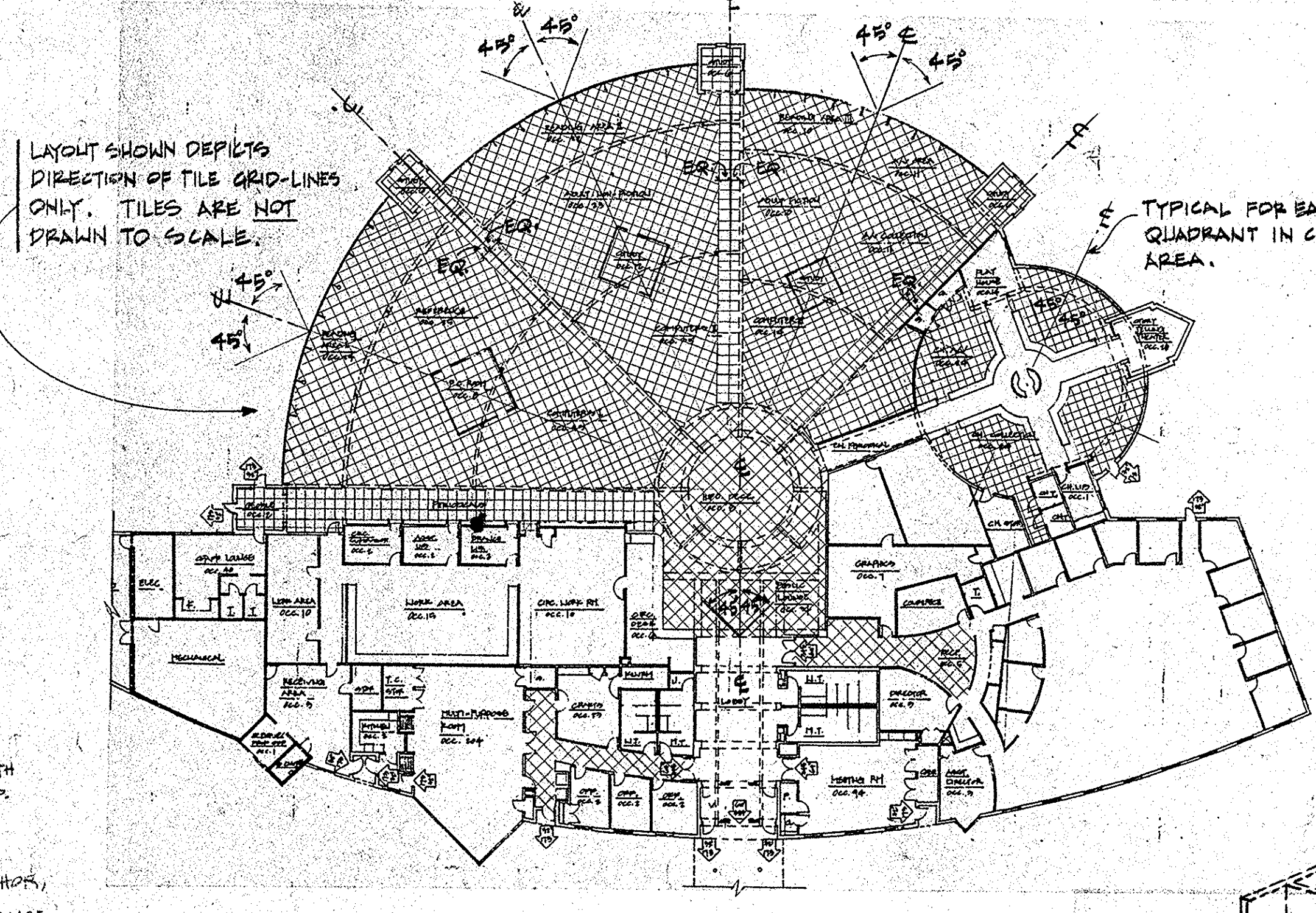
11 ELEVATION  
SCALE: 3/4" = 1'-0"



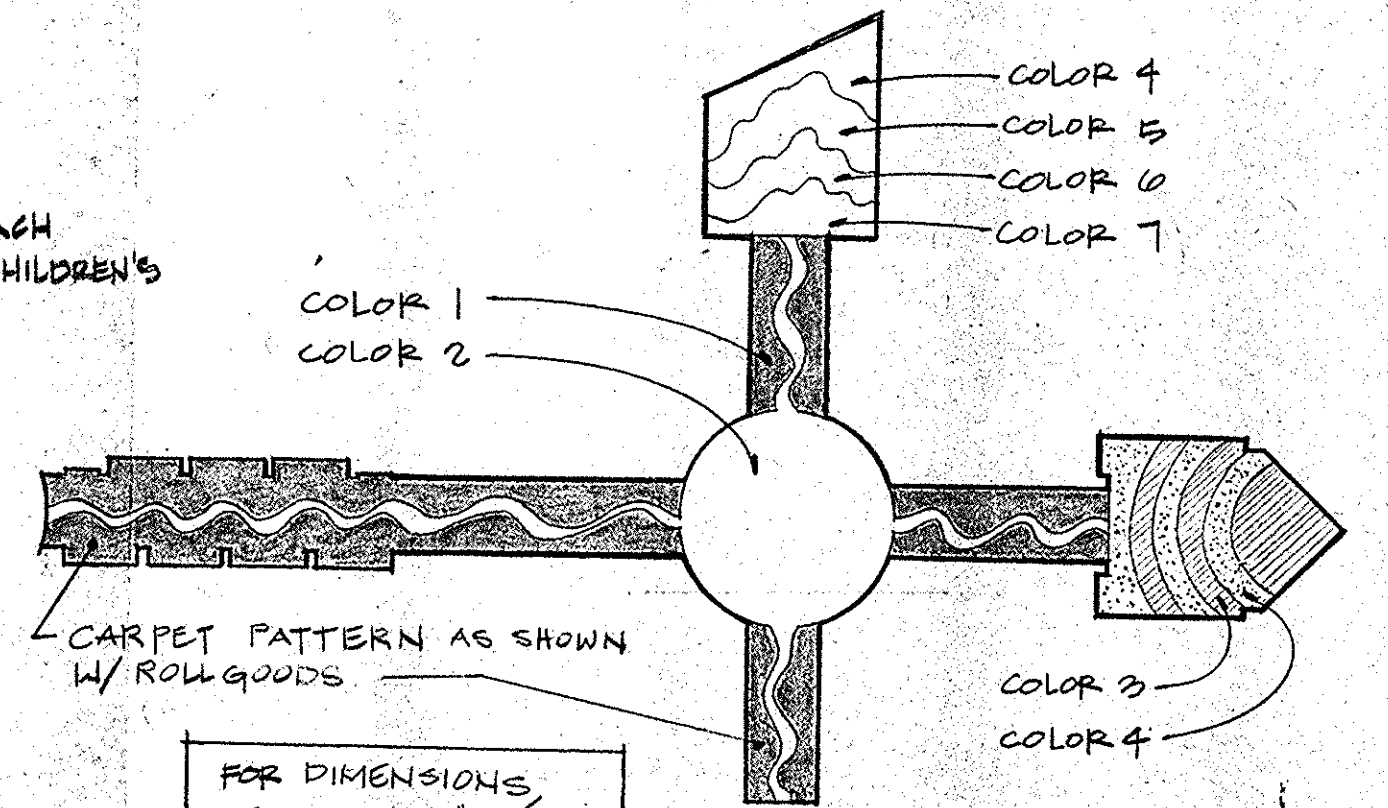
10 FLOOR PLAN MATERIALS: GRAPHIC KEY  
DO NOT SCALE FROM THIS DRAWING  
SCALE: 1/64" = 1'-0"

FINISH SCHEDULE		FLOOR MATERIALS GRAPHIC KEY	
FLOOR KEY		(SEE SPECIFICATIONS & FINISH SCHEDULE)	
F-1A		CARPET TILE : TYPE A	
F-1B		CARPET TILE : TYPE B	
F-2A		CARPET ROLL GOODS : TYPE A	
F-2B		CARPET ROLL GOODS : TYPE B	
F-3		"FRITZ" TILE (RESILIENT TERRAZZO TILE)	
F-4		1/2" TERRAZZO TILES	
F-5		VCT	
F-6		2x2 CERAMIC TILE	
F-7		SEALED CONCRETE	
F-9		QUARRY TILE	

NOTE: PROVIDE FOR TRANSITION STRIPS OR THRESHOLDS AT ALL DISSIMILAR FLOORING MATERIAL INTERSECTIONS.

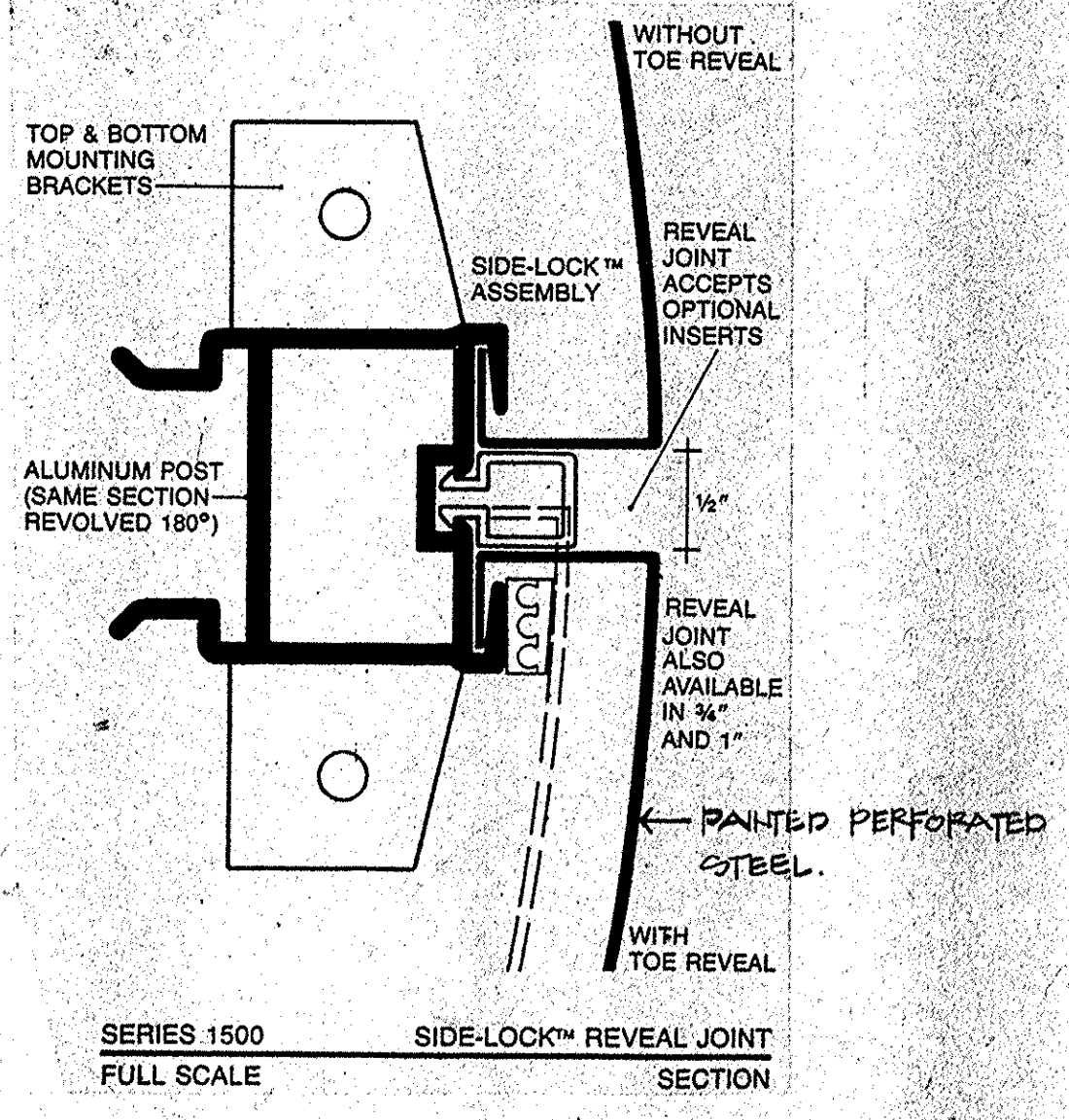


9 CARPET TILE LAYOUT  
DO NOT SCALE FROM THIS DRAWING  
SCALE: 1/64" = 1'-0"

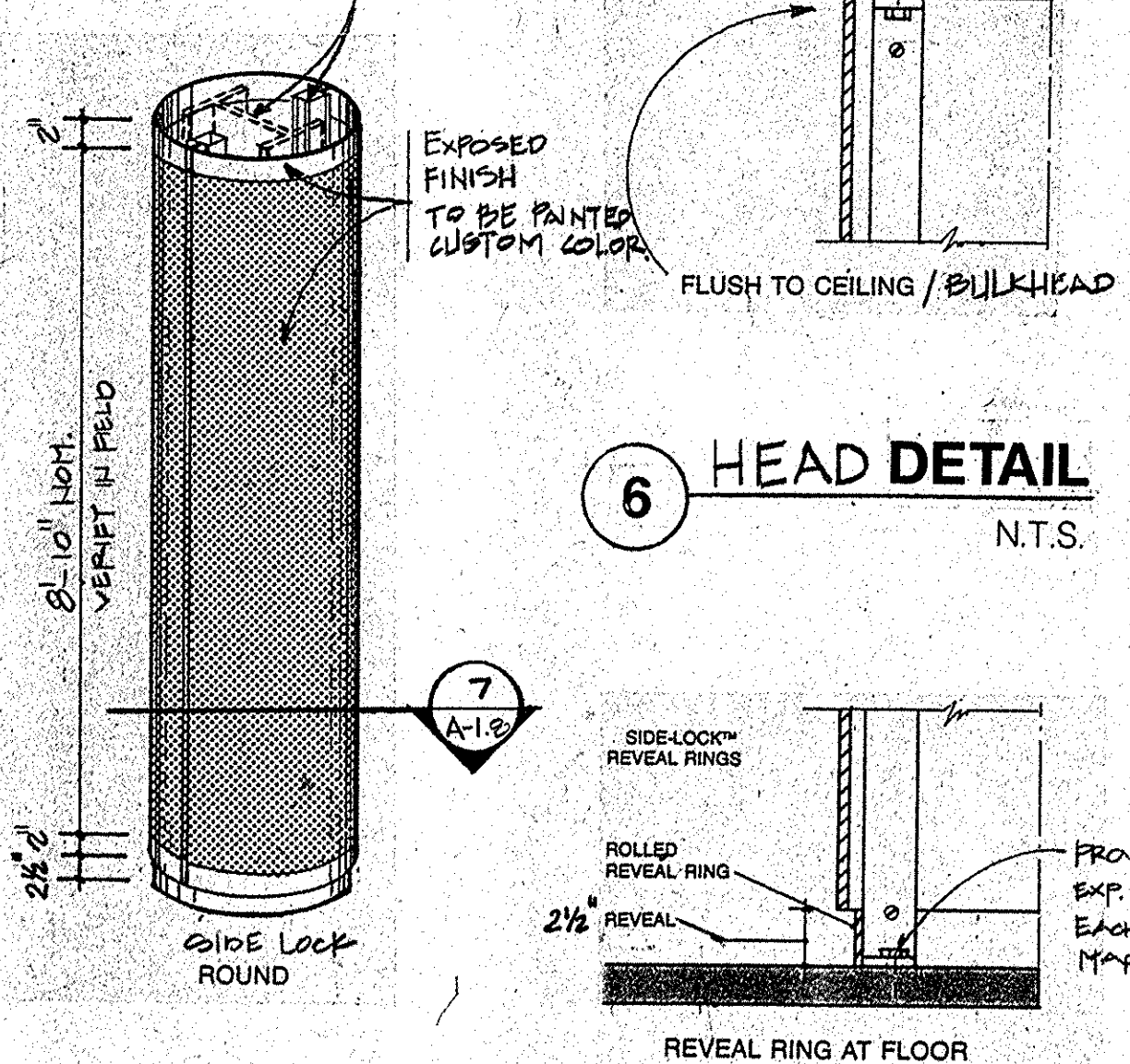


10A CPT. PATTERN @ CH'S AREA  
SCALE: 10" = 1'-0"

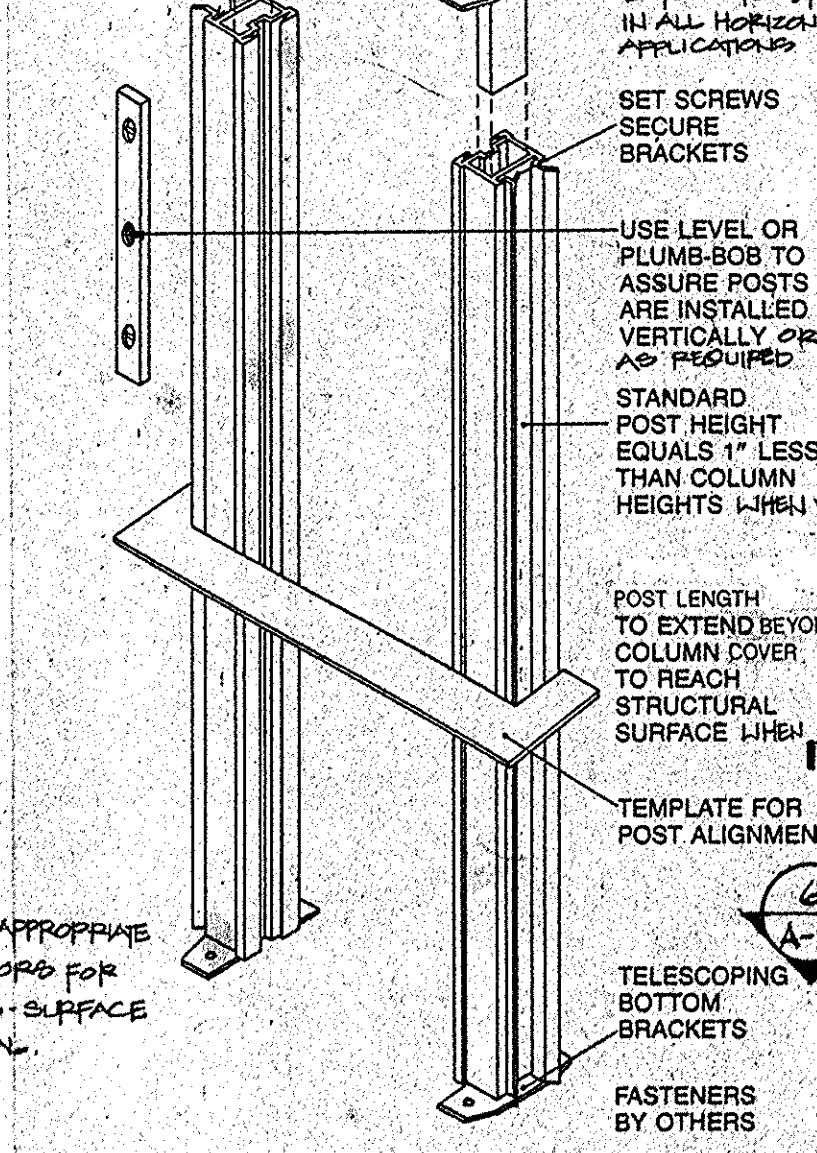
FINISH OF ALL CONCEALED COMPONENTS TO BE PAINTED MATTE BLACK. PRIOR TO INSULATION (INCLUDING WHERE STEEL KISES OUT OF COVER).



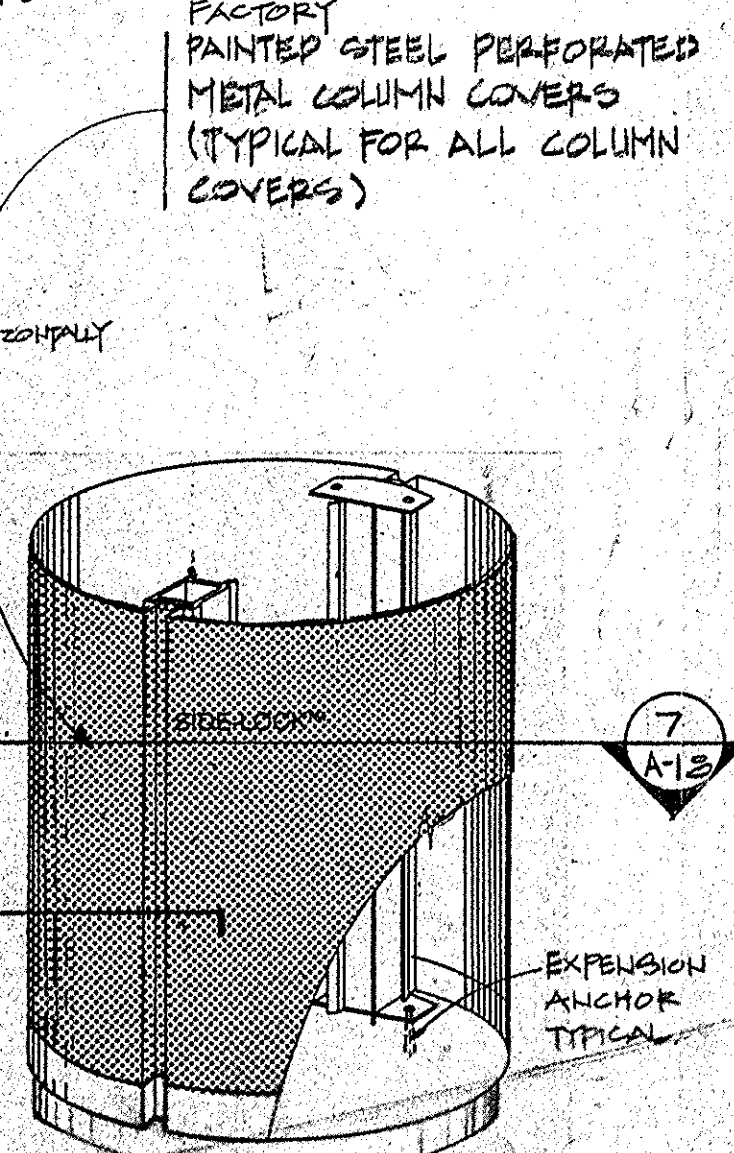
8 COL. COVER JOINT DETAIL  
SCALE: FULL SCALE



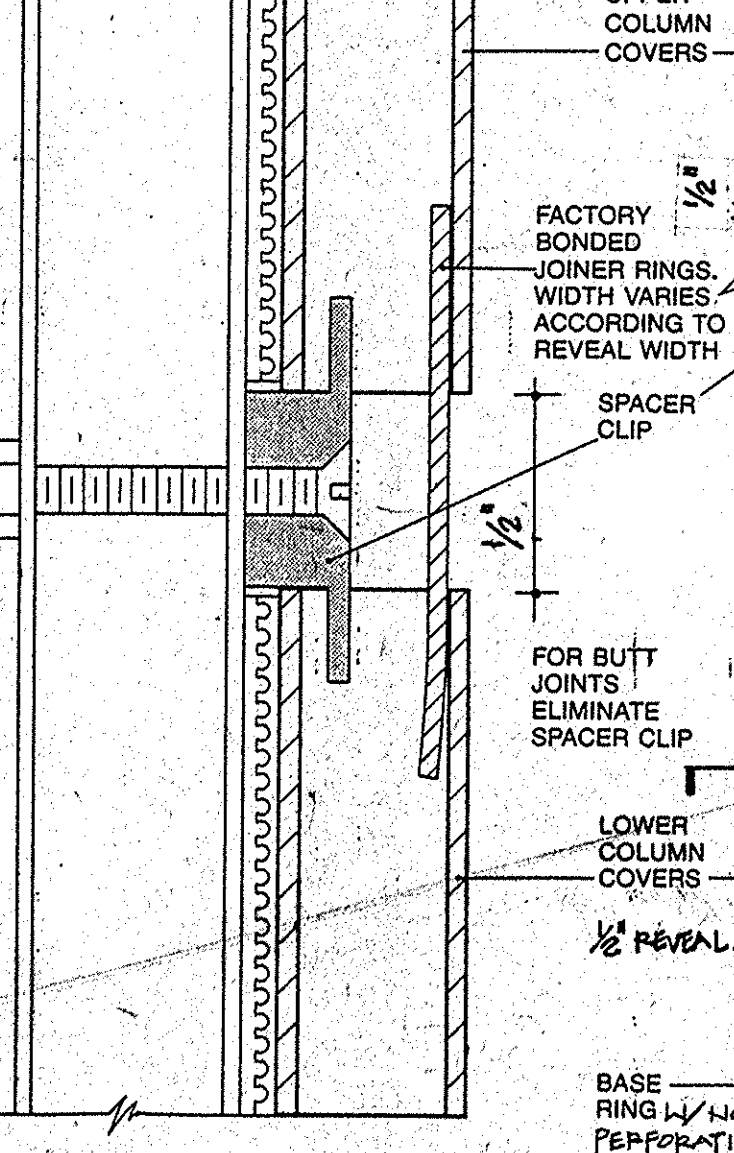
7 COVER DETAIL  
SCALE: N.T.S.



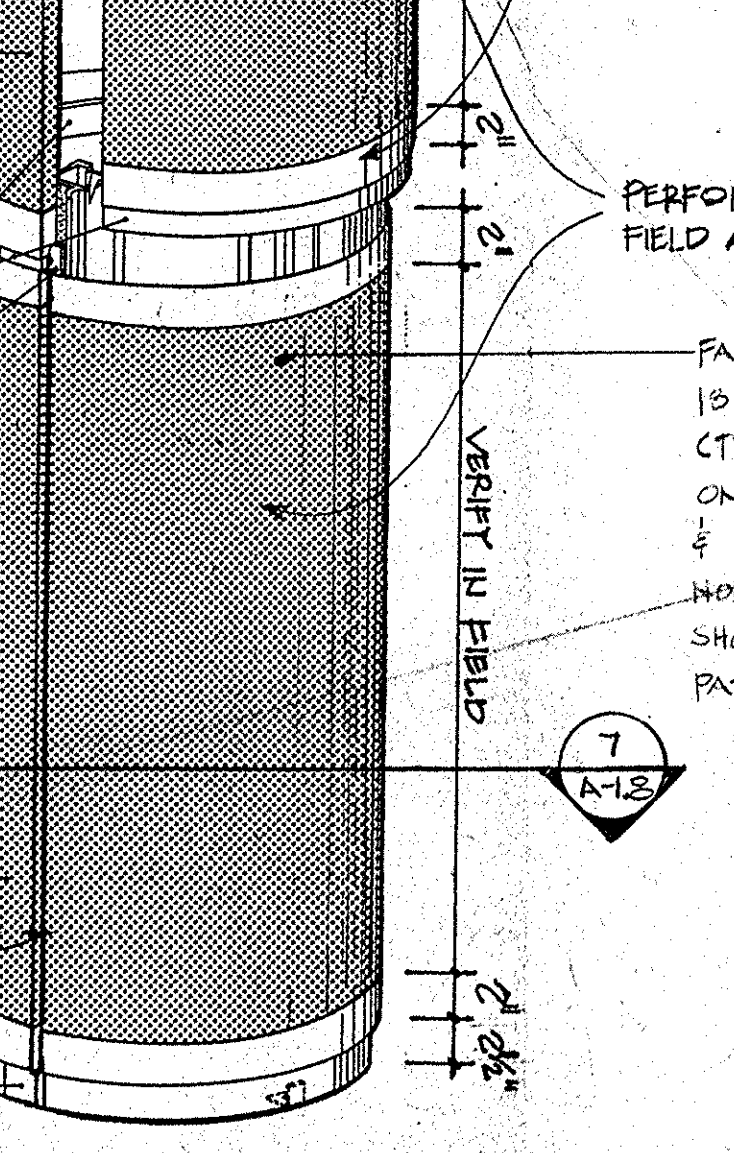
6 HEAD DETAIL  
SCALE: N.T.S.



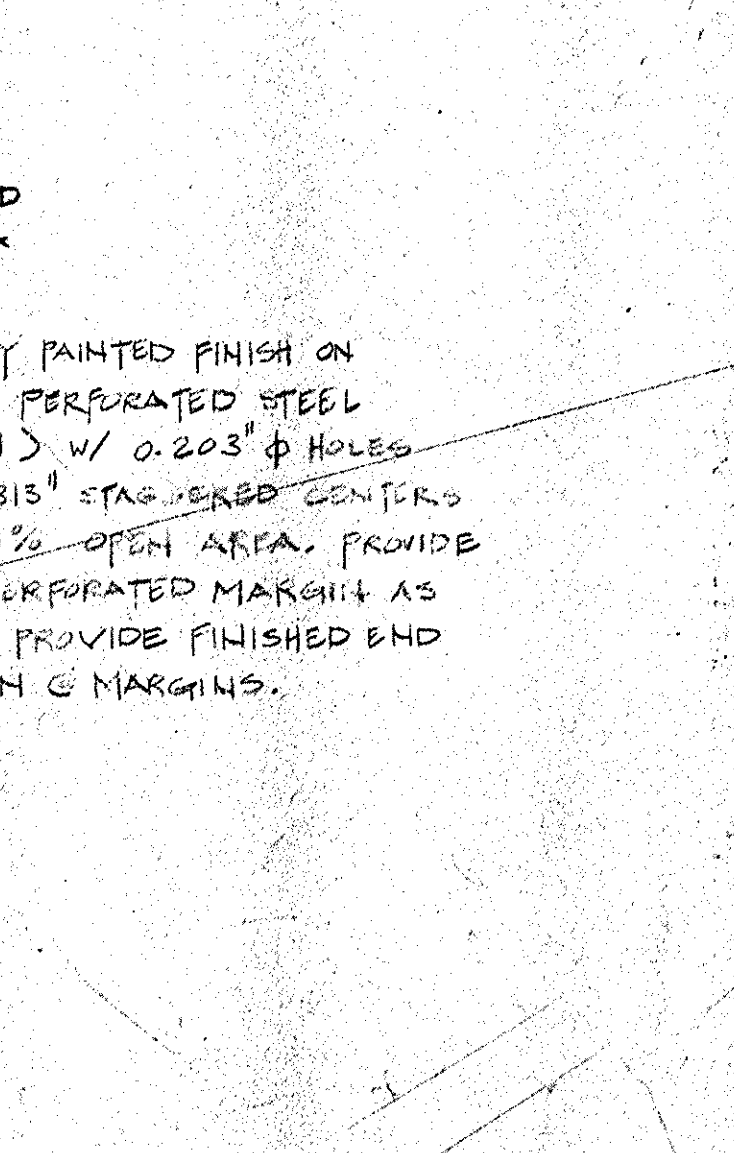
5 BASE DETAIL  
SCALE: N.T.S.



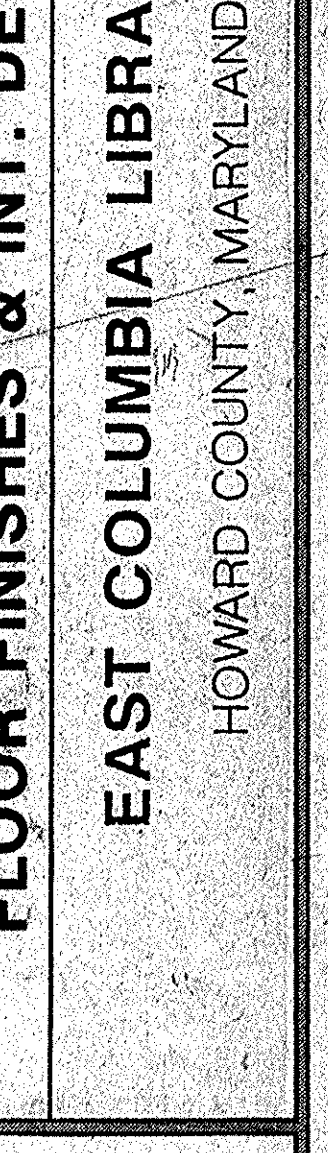
4 FRAME DETAIL  
SCALE: N.T.S.



3 CUT-AWAY DETAIL  
SCALE: N.T.S.

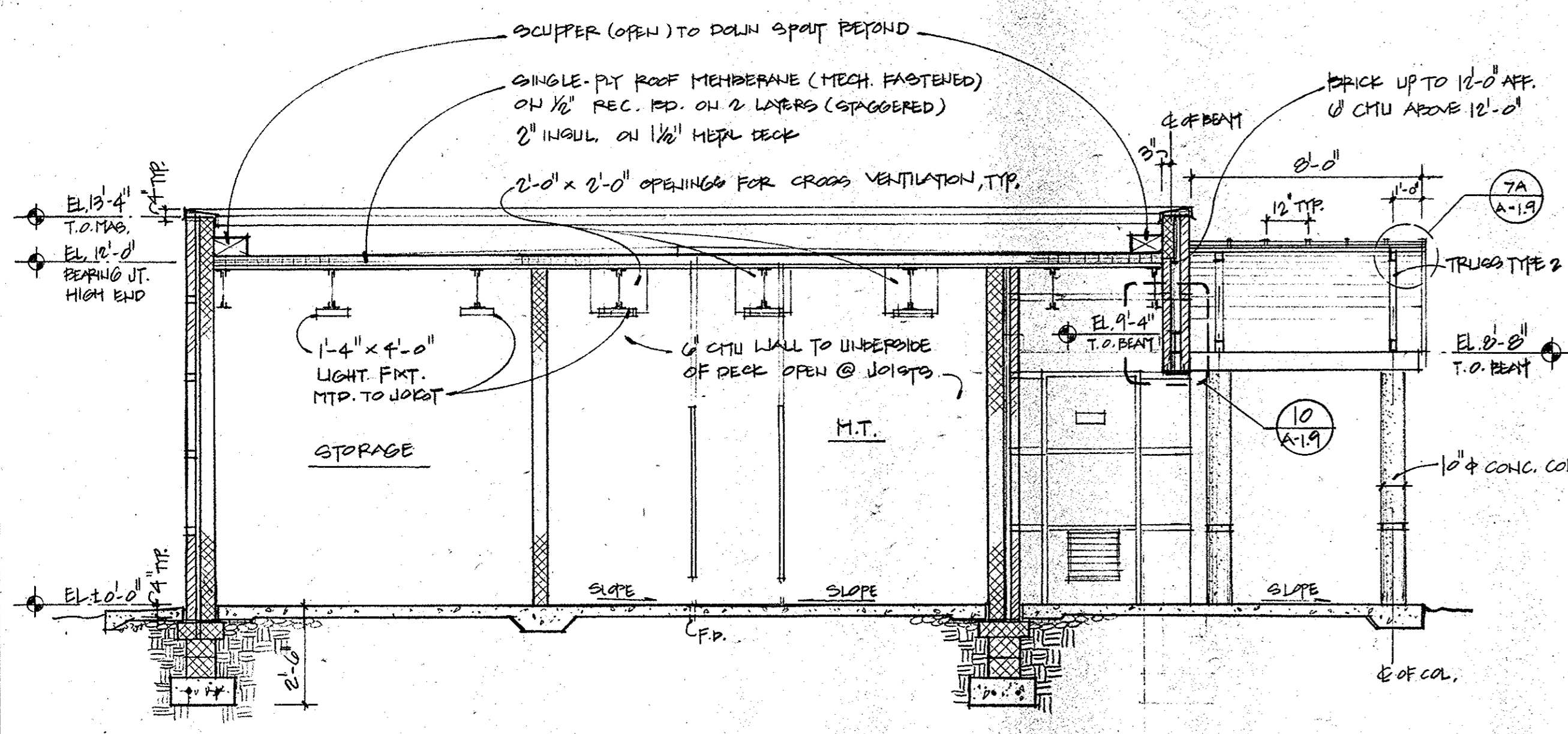


2 JOINT DETAIL  
SCALE: N.T.S.

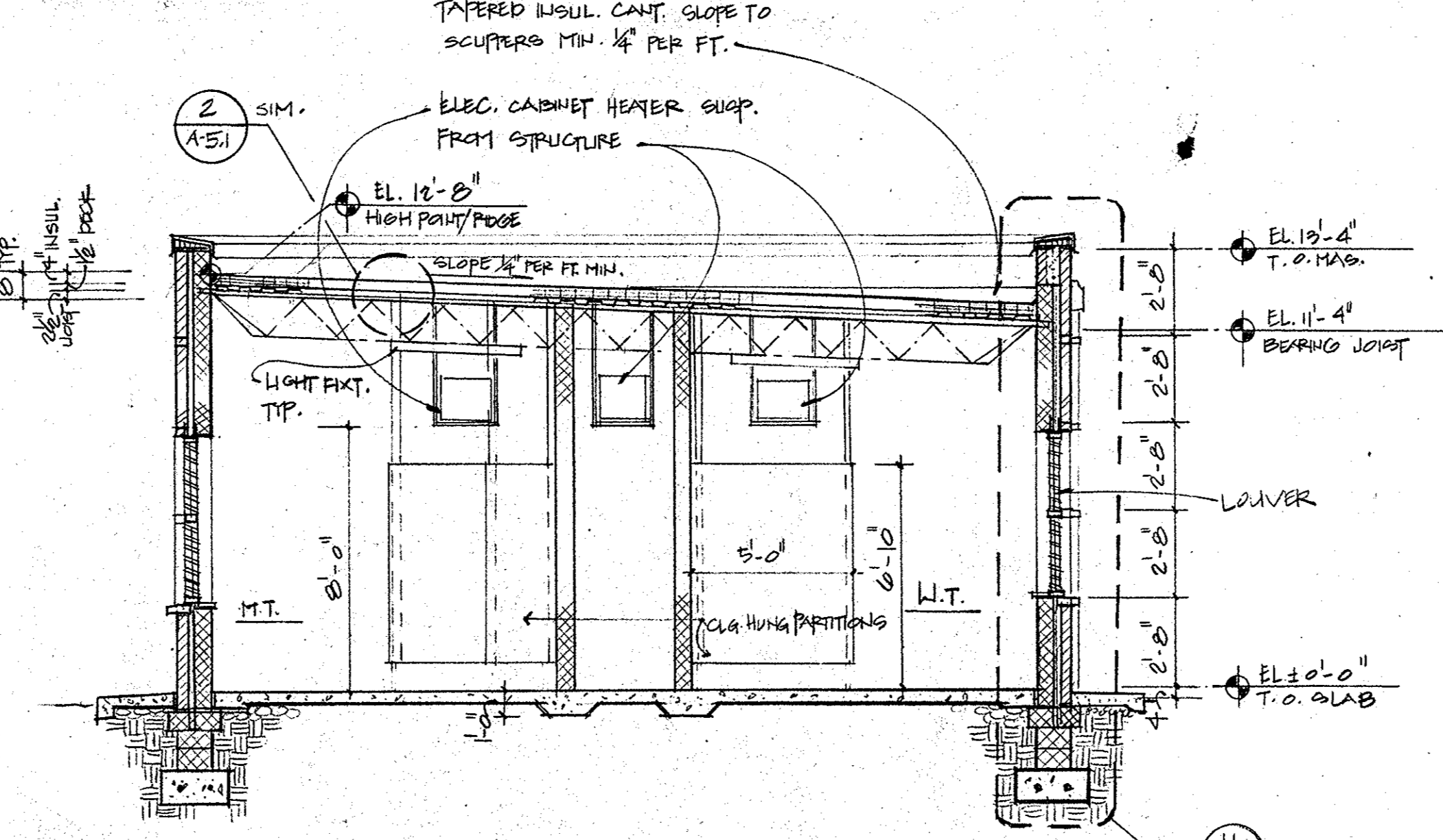


1 STACKING DETAIL  
SCALE: N.T.S.

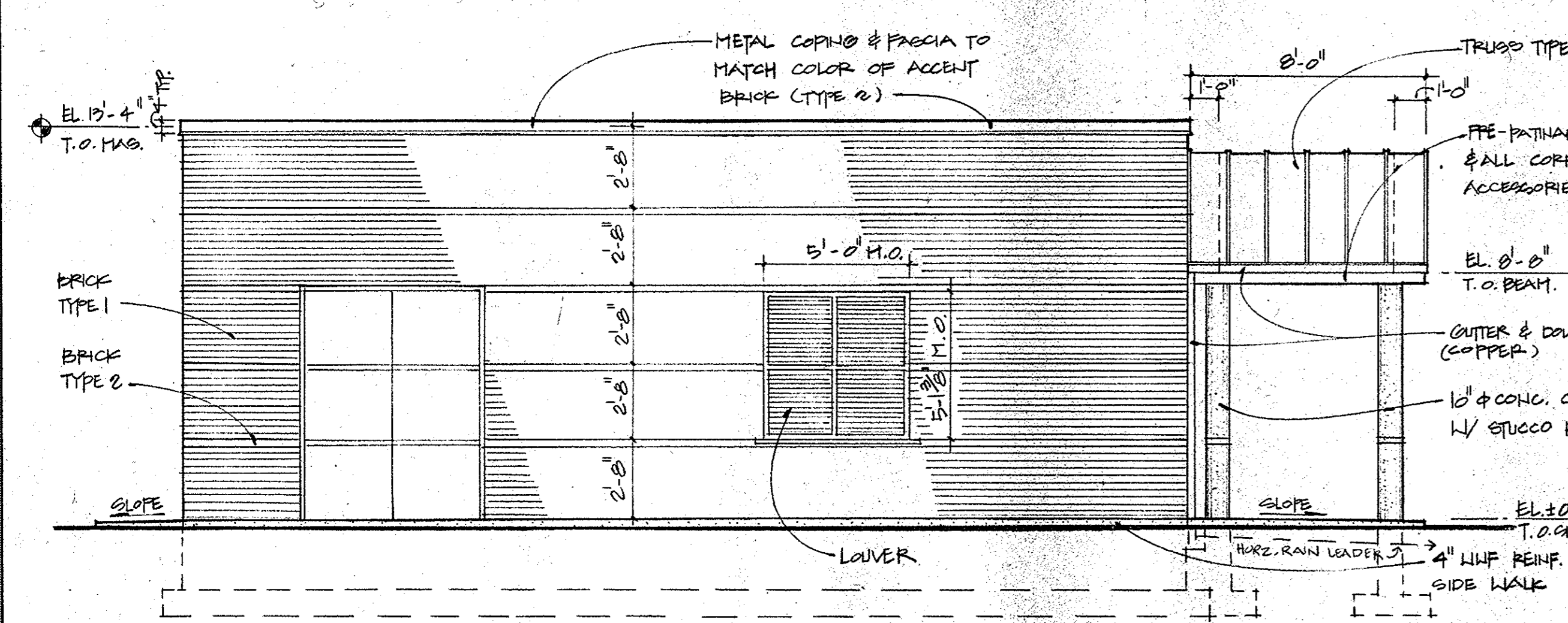
SEE SCHEDULE ON SHT. A-1.2



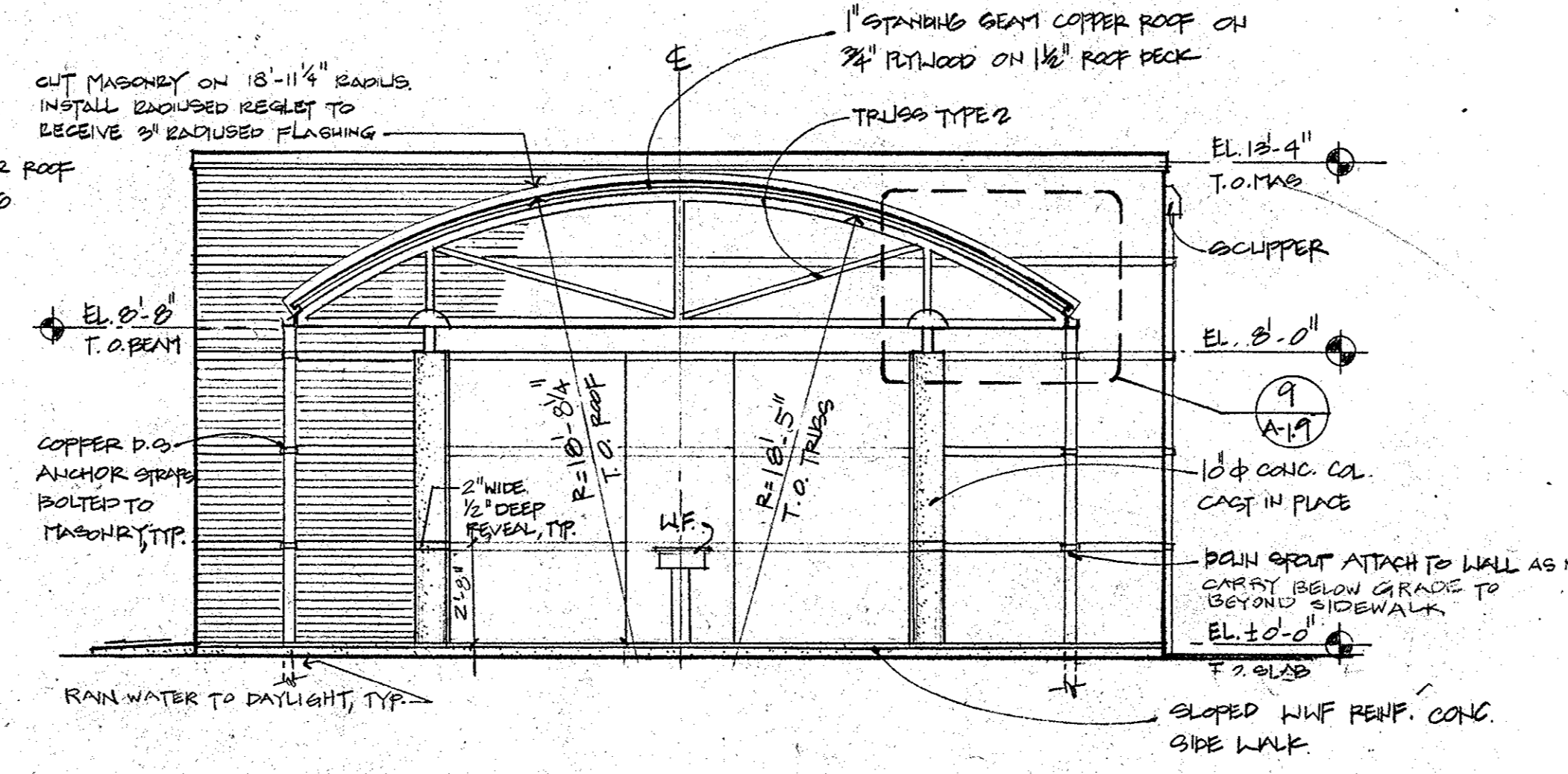
**BUILDING SECTION**  
SCALE: 1/4" = 1'-0"



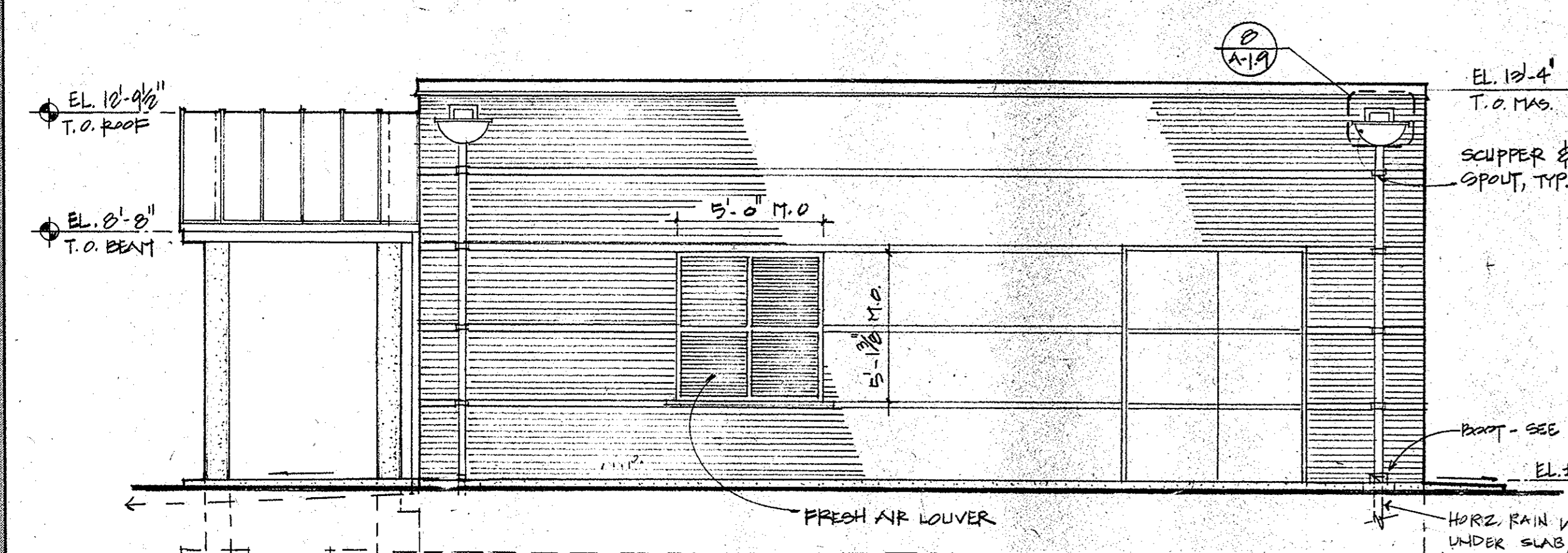
**BUILDING SECTION**  
SCALE: 1/4" = 1'-0"



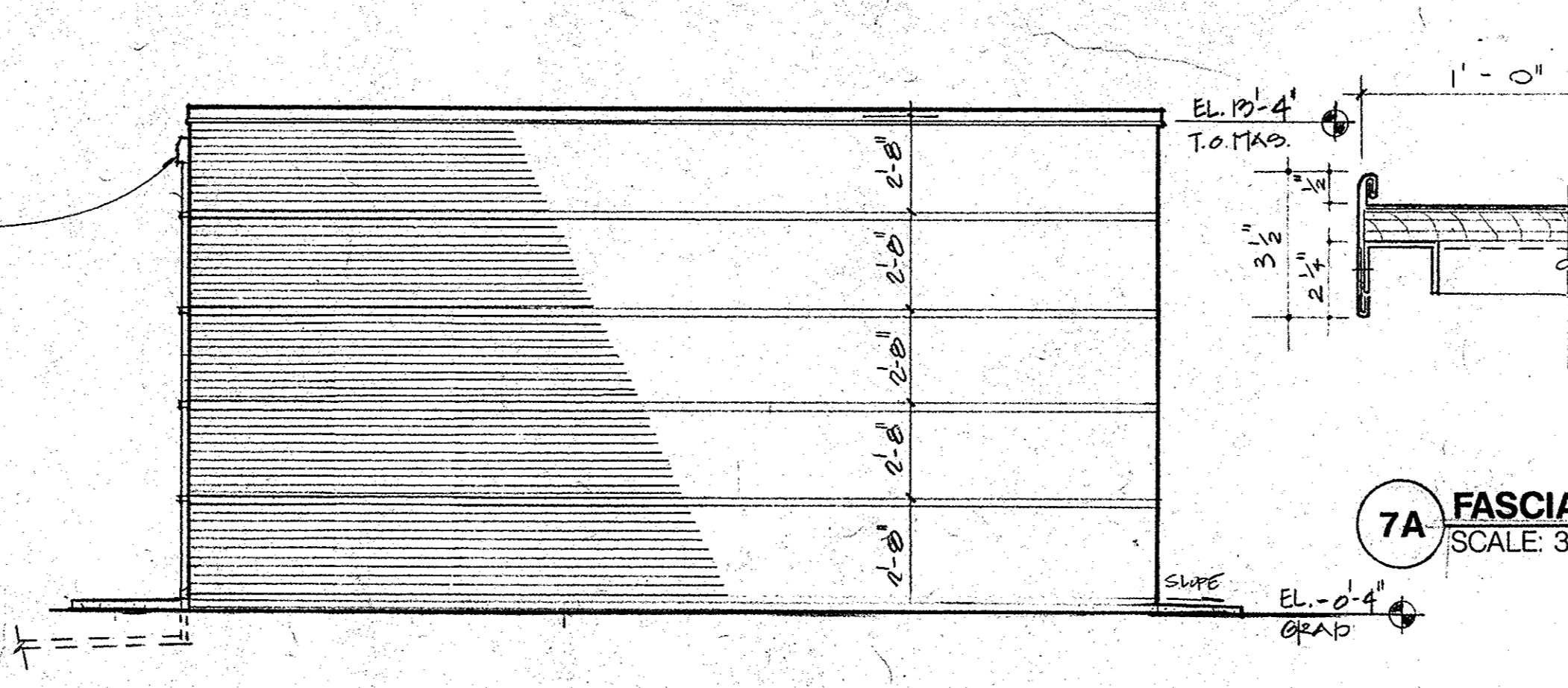
**NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"



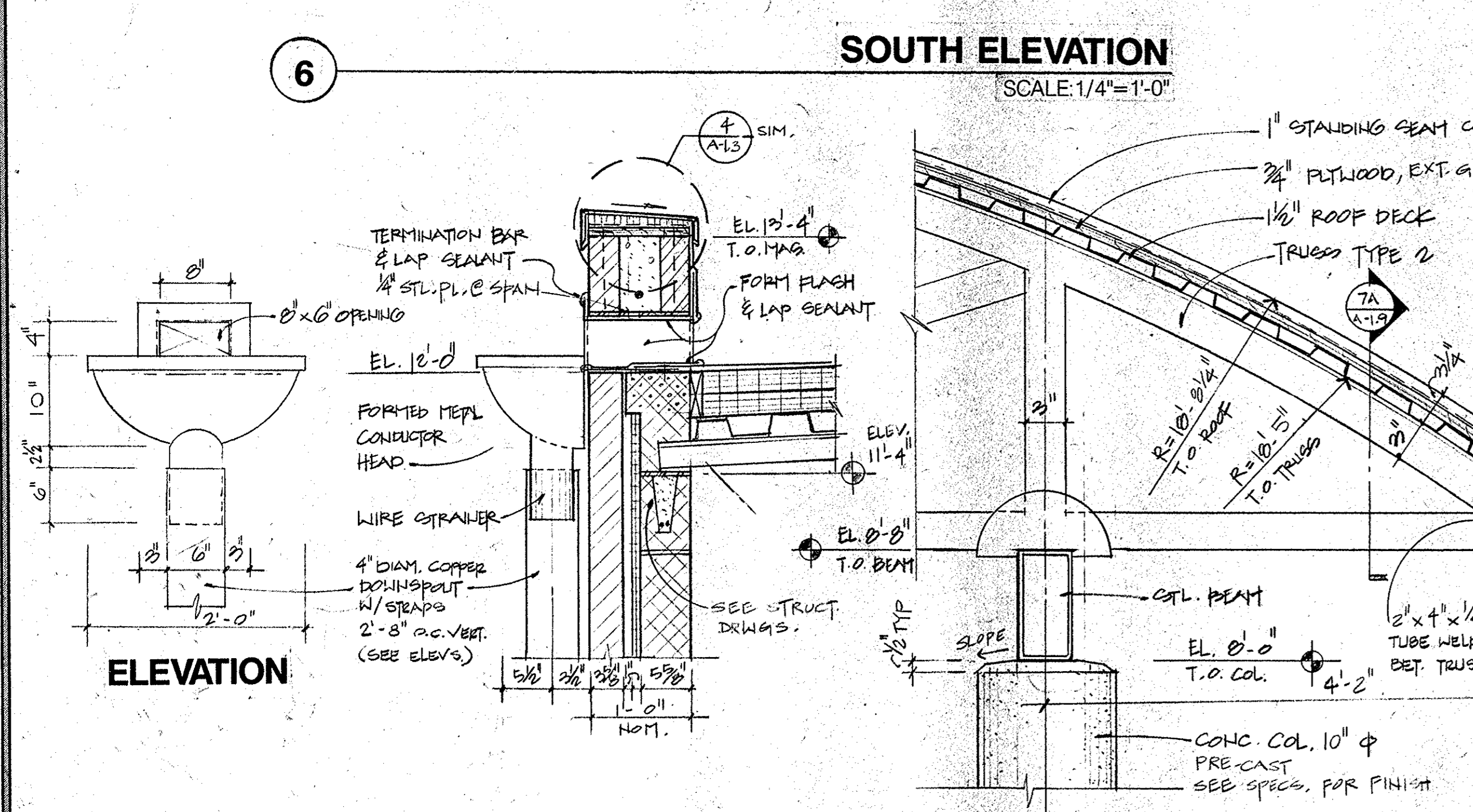
**WEST ELEVATION**  
SCALE: 1/4" = 1'-0"



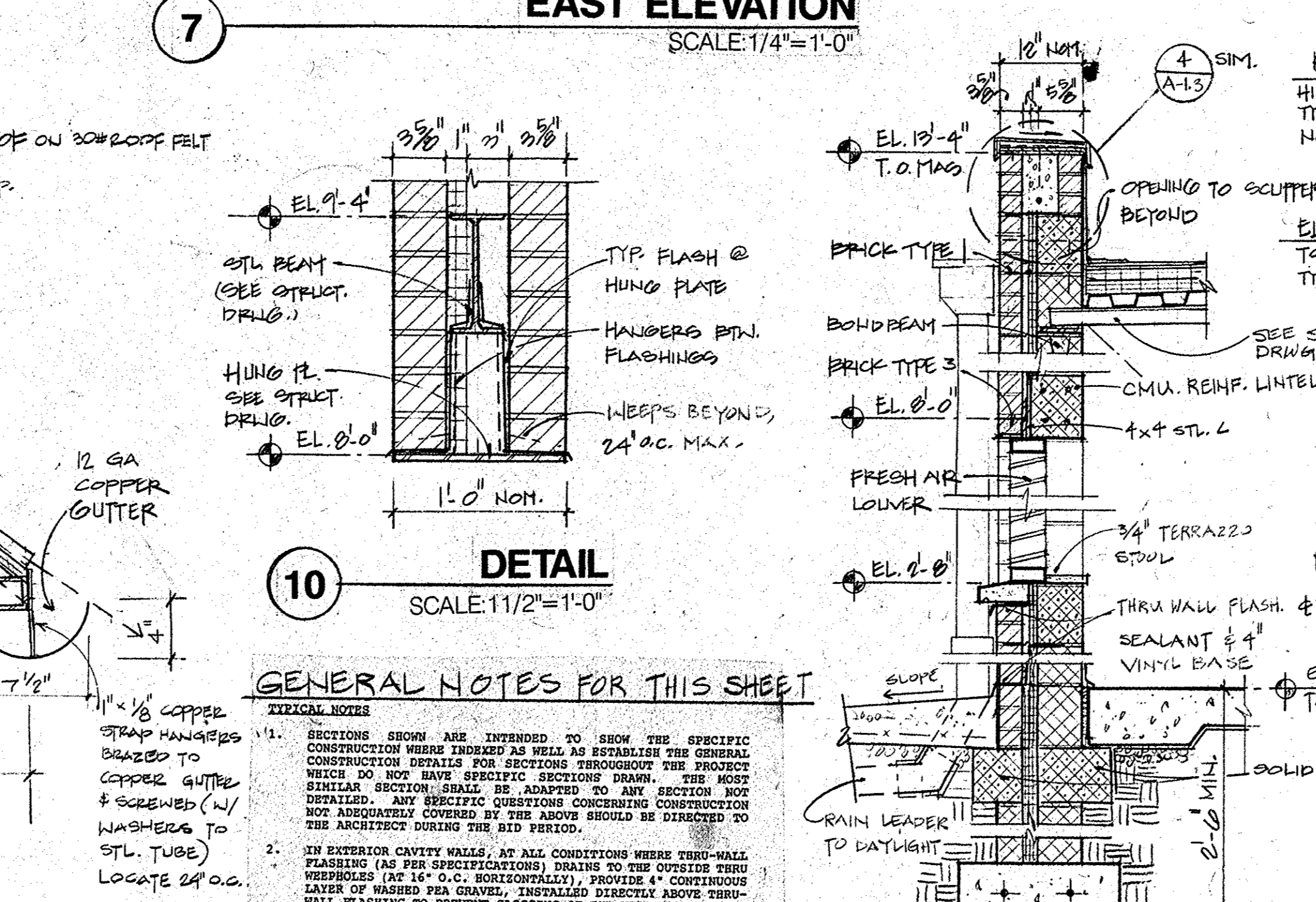
**SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"



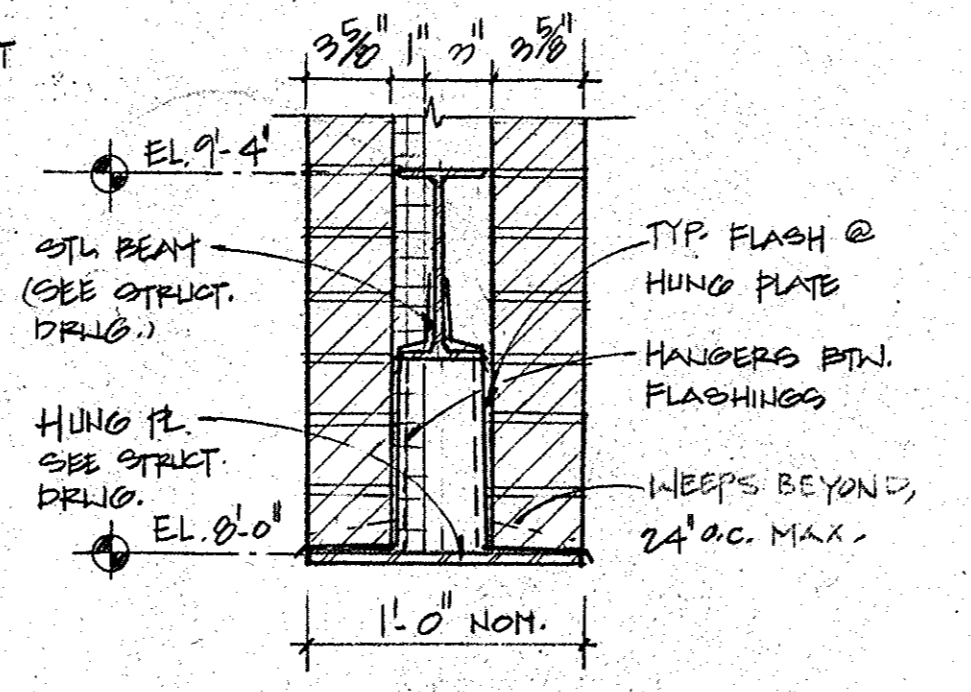
**EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



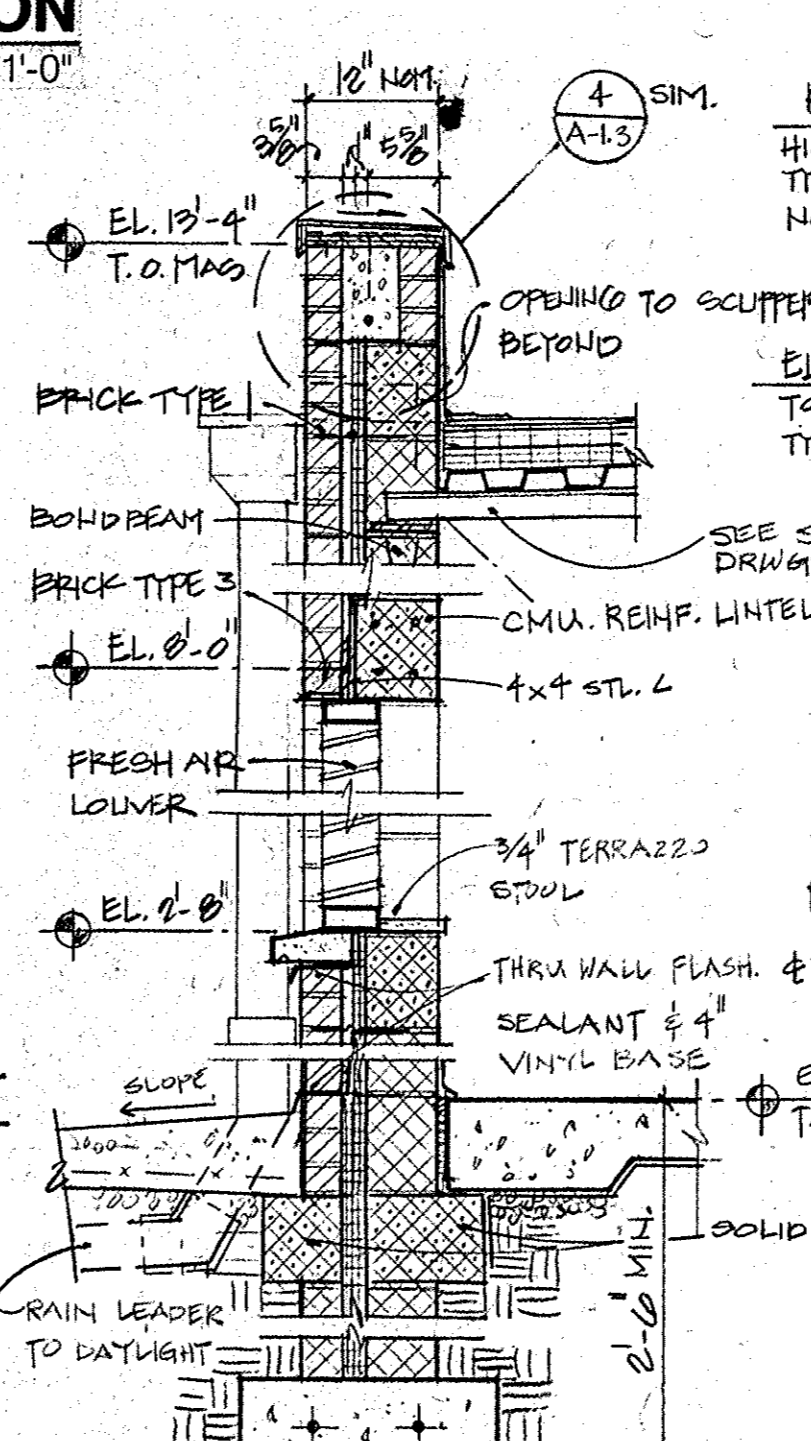
**SCUPPER DETAIL**  
SCALE: 1" = 1'-0"



**METAL ROOF DETAIL**  
SCALE: 1 1/2" = 1'-0"



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

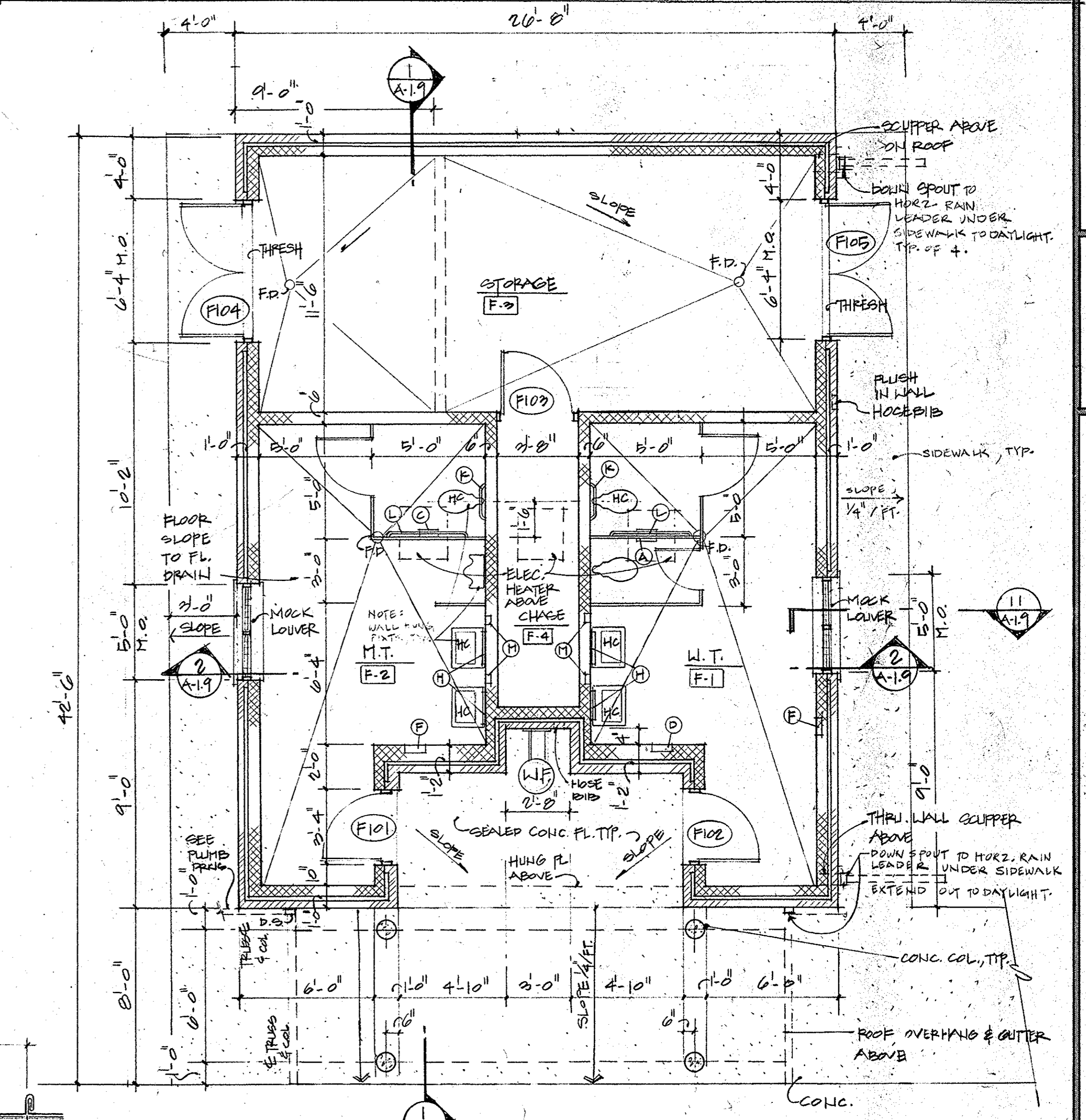


**WALL SECTION**  
SCALE: 3/4" = 1'-0"

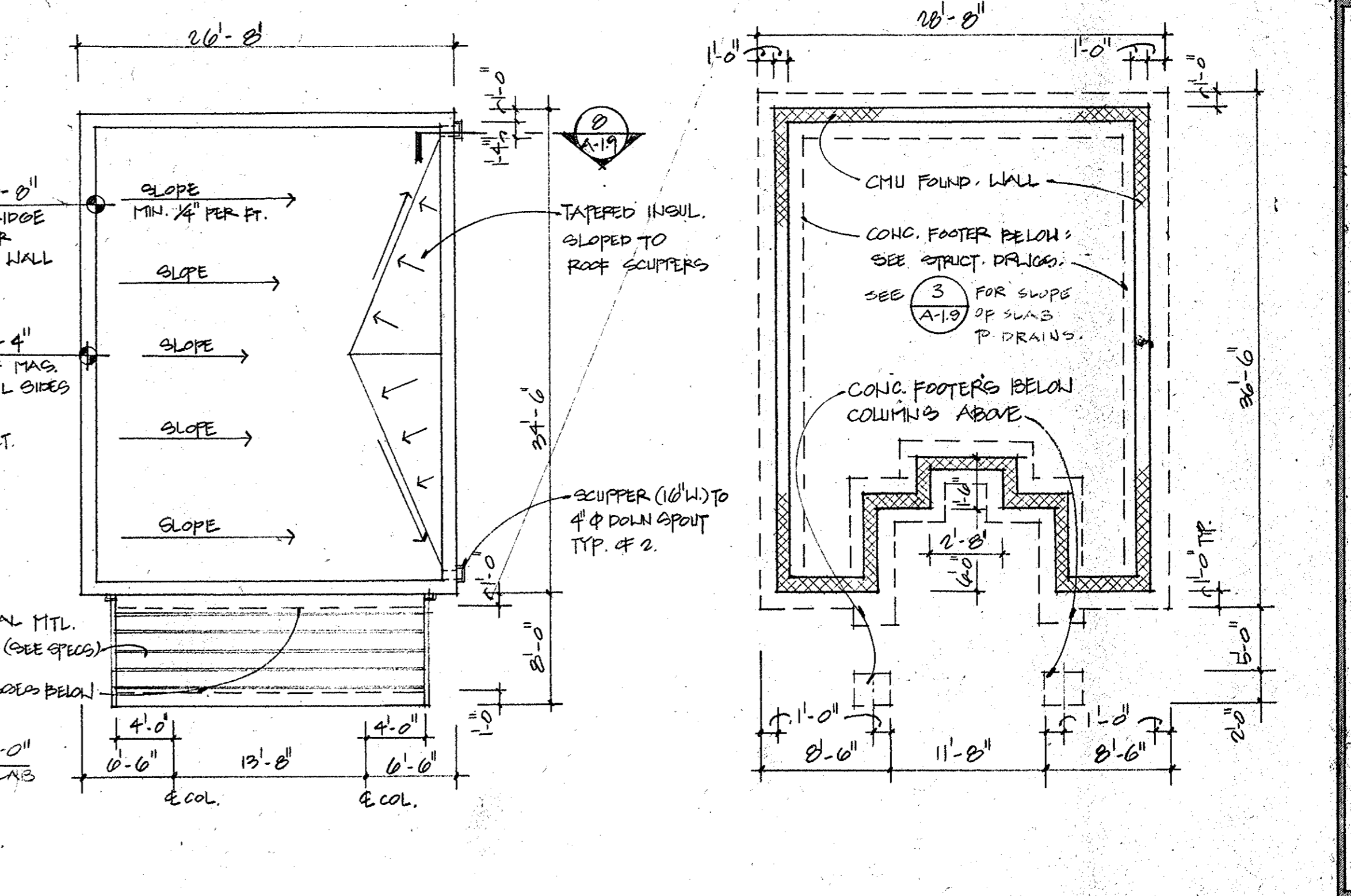
FINISH SCHEDULE	RM. NO.	SPACE	COL. SCH.	FLR.	BASE	WALLS				CEILING	* REMARKS
						A	B	C	D	MAT. HGT.	
	F-1	WOMEN'S TOILET		F-1	B-4	W-2	W-2	W-2	W-2	C-2	V-100
	F-2	MEN'S TOILET		F-1	B-4	W-2	W-2	W-2	W-2	C-2	
	F-3	STORAGE		F-1	B-4	W-2	W-2	W-2	W-2	C-2	
	F-4	CHAIR		F-1	B-4	W-2	W-2	W-2	W-2	C-2	

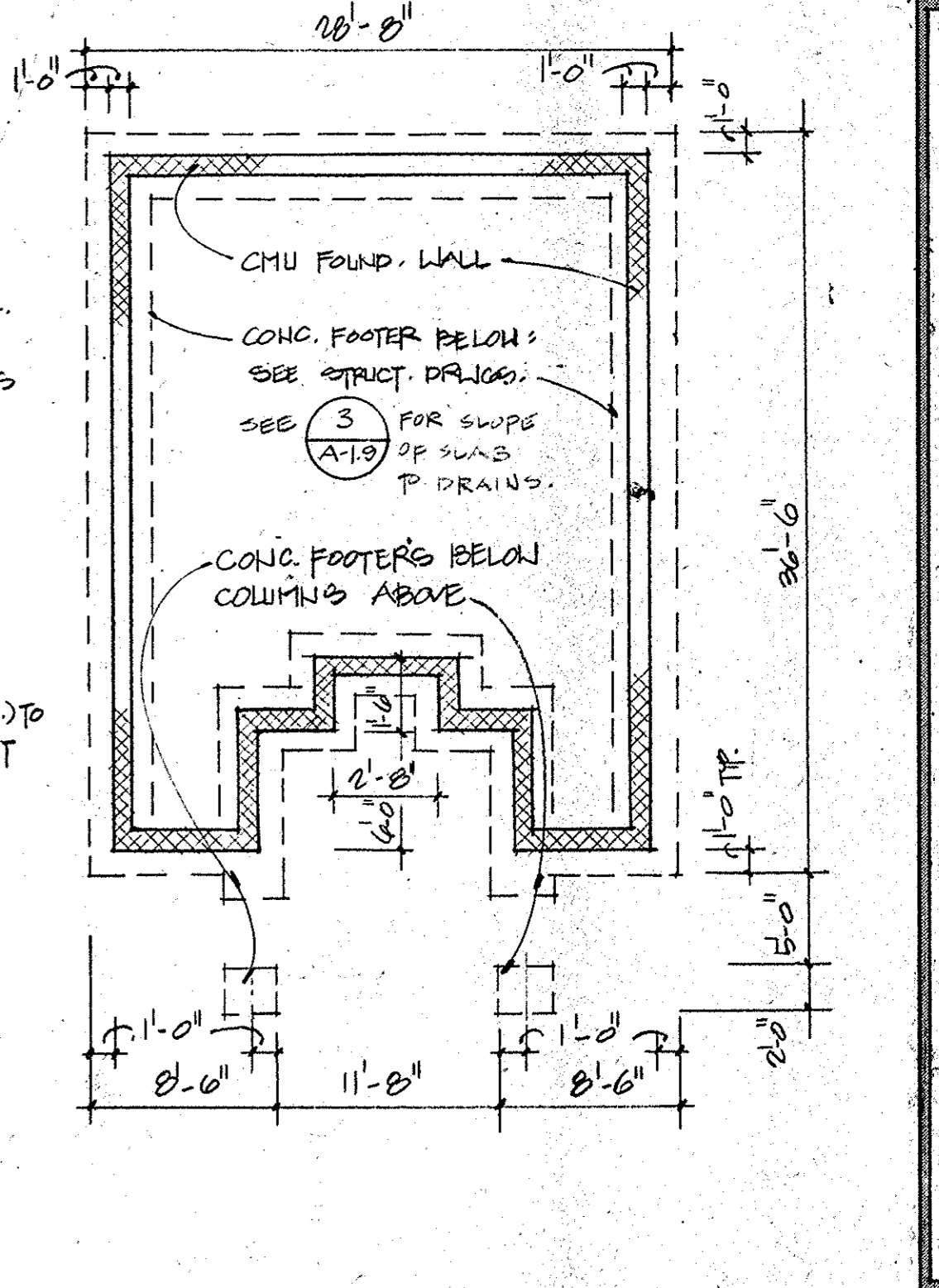
DOOR SCHEDULE	OPNG. NO.	DOOR			FRAME			DOOR LAB. FIRE RATG.	HRDW. SET	REMARKS	
		NOMINAL SIZE	TYPE	MAT.	TYPE	MAT.	SECTIONS				
	F101	7'-0" x 7'-10"	1 3/4"	4	HM	Ø	HM	J-Ø	H-5	Ø5	N/ 22" x 22" LAMBER W/ KICK PLATE
	F102	7'-0" x 7'-10"	1 3/4"	4	HM	Ø	HM	J-Ø	H-5	Ø5	N/ 22" x 22" LAMBER W/ KICK PLATE
	F103	7'-0" x 7'-10"	1 3/4"	4	HM	Ø	HM	J-Ø	H-5	Ø5	W/ KICK PLATE
	F104	7'-0" x 7'-10"	1 3/4"	4	HM	Ø	HM	J-Ø	H-5	Ø5	W/ KICK PLATE
	F105	7'-0" x 7'-10"	1 3/4"	4	HM	Ø	HM	J-Ø	H-5	Ø5	W/ KICK PLATE



**FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**ROOF PLAN**  
SCALE: 1/8" = 1'-0"



**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES FOR THIS SHEET**

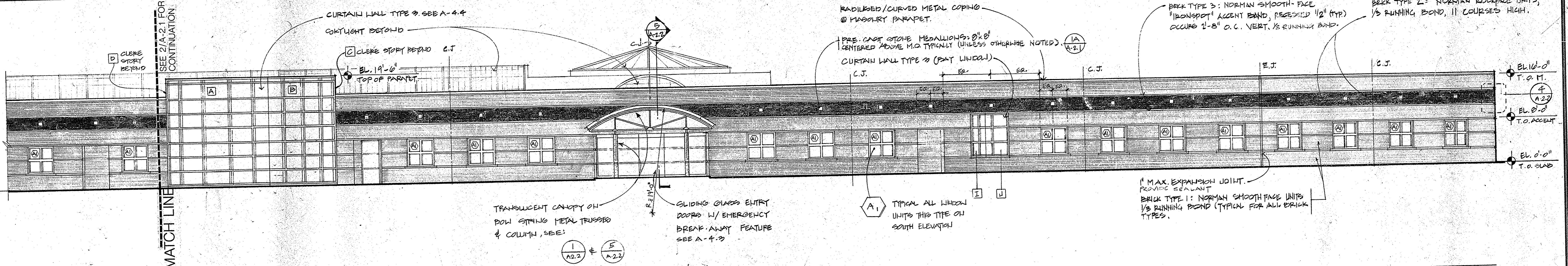
1. SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDICATED AS WELL AS REVEAL THE GENERAL CONSTRUCTION DETAILS FOR SPOTS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTION DRAWINGS. THE MOST SIMILAR SECTION SHOULD BE ADAPTED TO ANY SECTION NOT SHOWN. ANY SPECIFIC CONSTRUCTION CONCERNING CONSTRUCTION NOT OTHERWISE COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.

2. IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE TIE-WALL FLASHING (AS PER SPECIFICATIONS) DOES NOT EXTEND THROUGH MEMBRANE (AT 16" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF MASSIVE FIBER GLASS INSULATION DIRECTLY ABOVE TIE-WALL FLASHING TO PREVENT CLOGGING OF THE WEAP BOARD.

3. SEE A-3.01 DETAILS 1 & 2 FOR TYP. NOTES.

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**FACILITIES BLDG. ALTERNATE #1**  
**EAST COLUMBIA LIBRARY**  
 -HOWARD COUNTY MARYLAND



**5 SOUTH ELEVATION (PARTIAL)**

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

**4 EAST ELEVATION**

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

**3 NORTH ELEVATION (PARTIAL)**

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

**2 SOUTH ELEVATION (PARTIAL)**

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

**1A PRECAST MEDALLION DETAIL**

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

**1 NORTH ELEVATION (PARTIAL)**

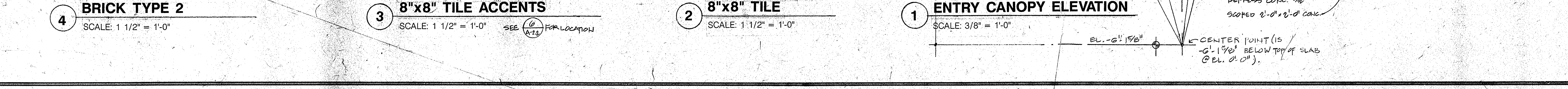
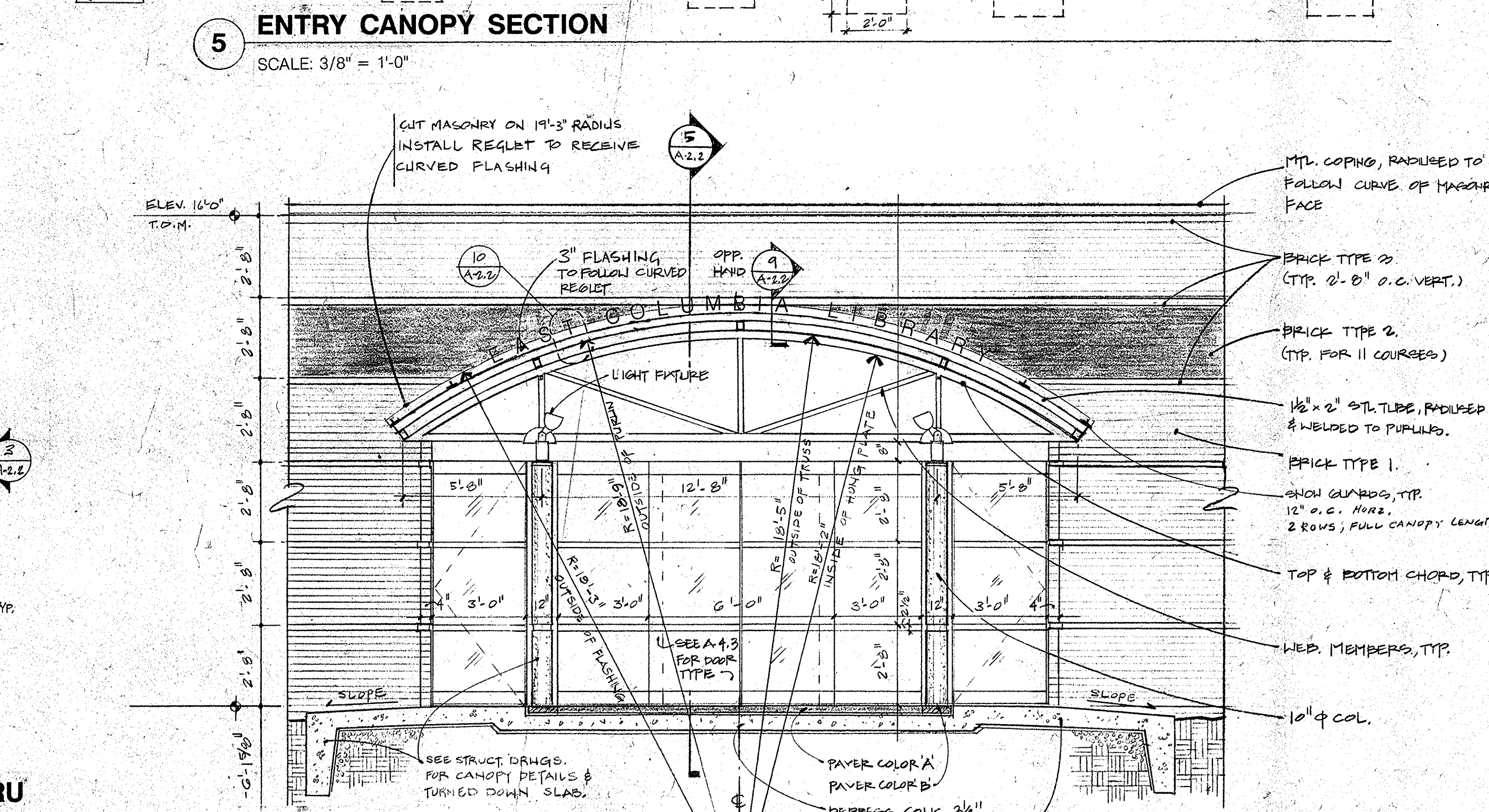
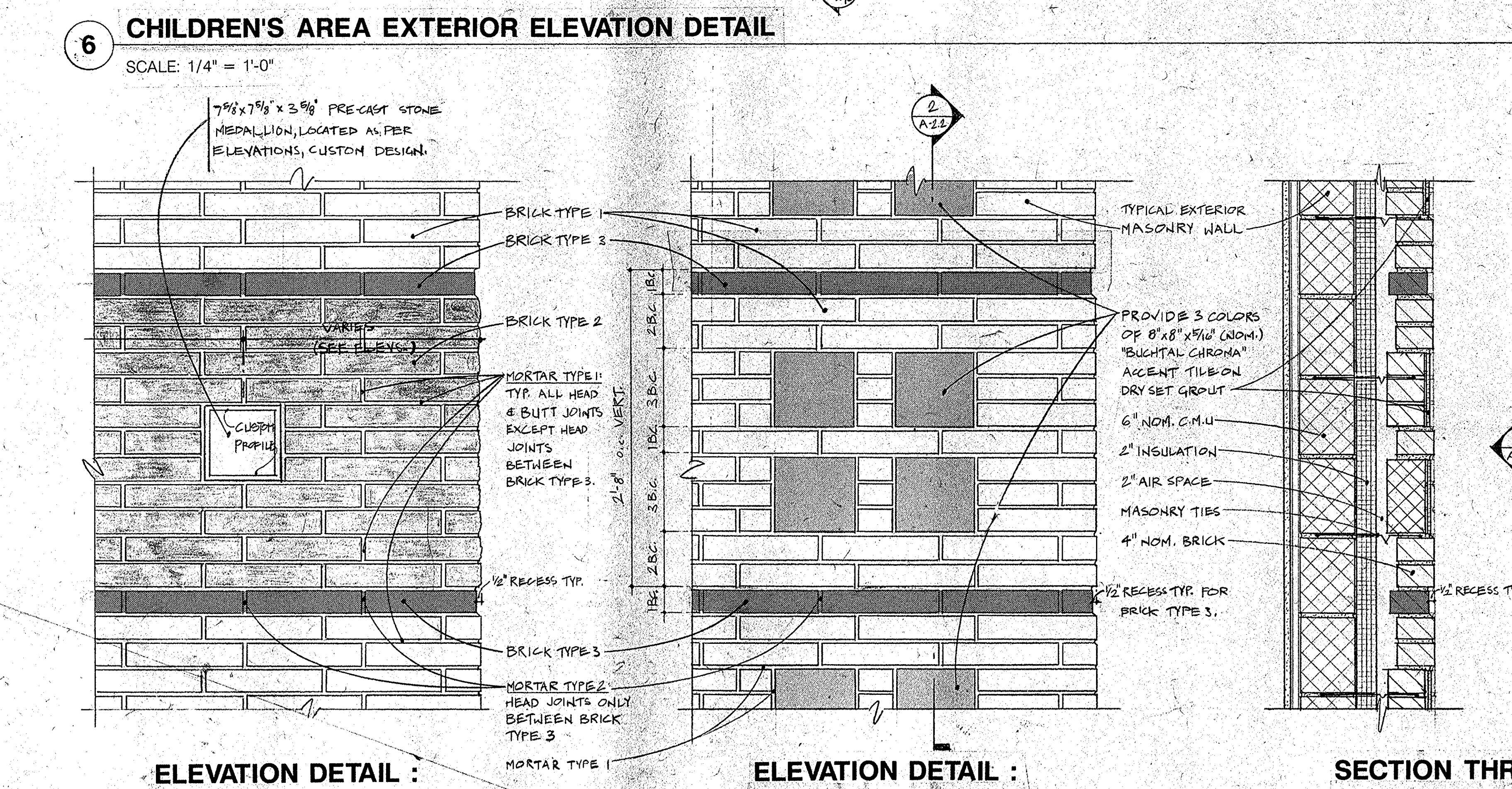
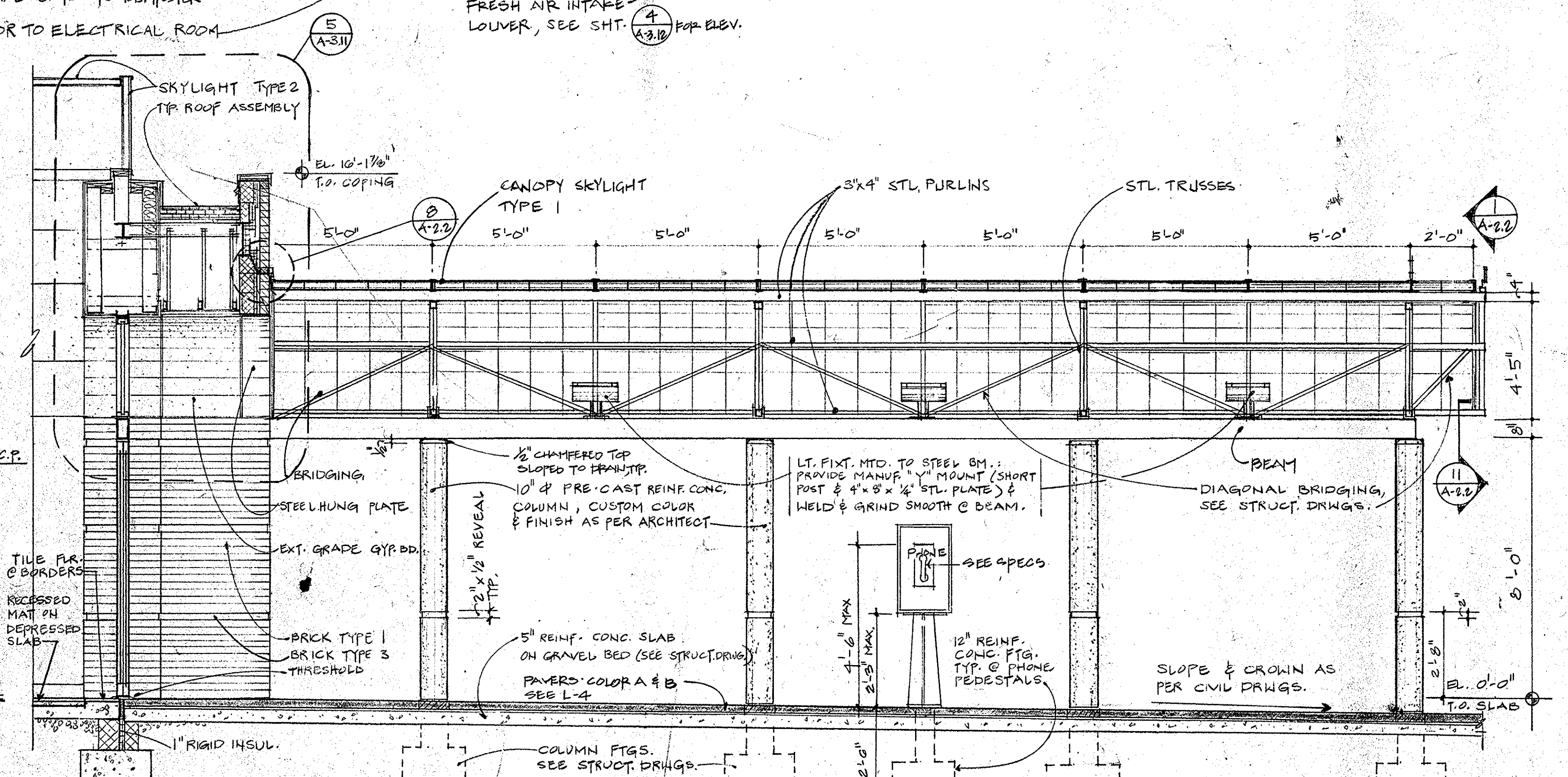
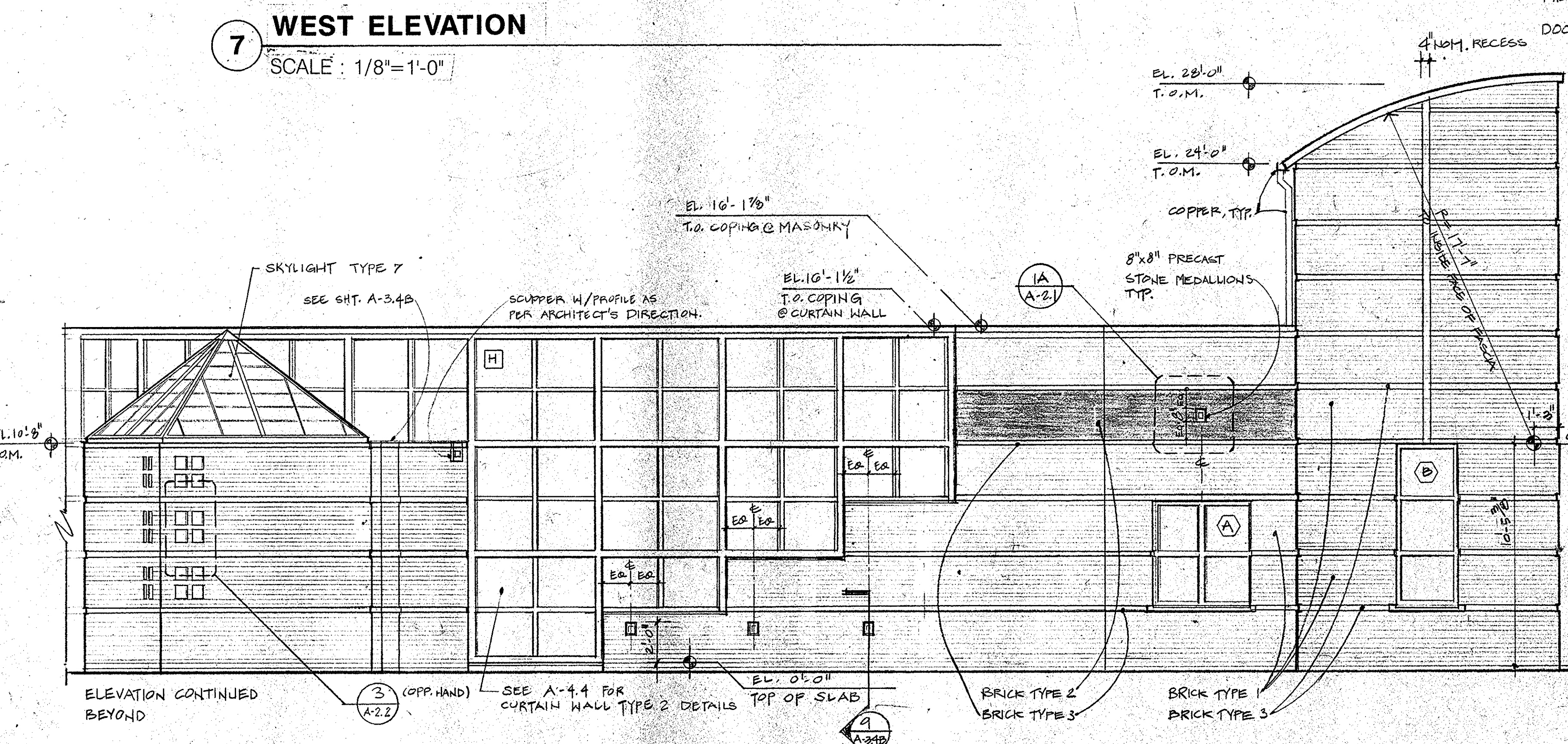
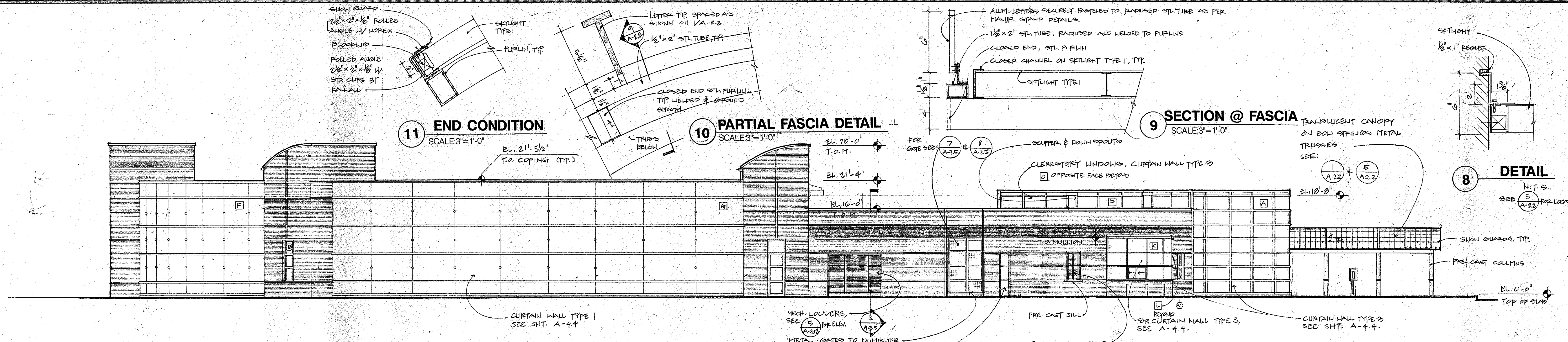
SCALE: 1/8" = 1'-0"

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**ELEVATIONS**  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY, MARYLAND

**A-2.1**

BID SET  
18 FEB 92



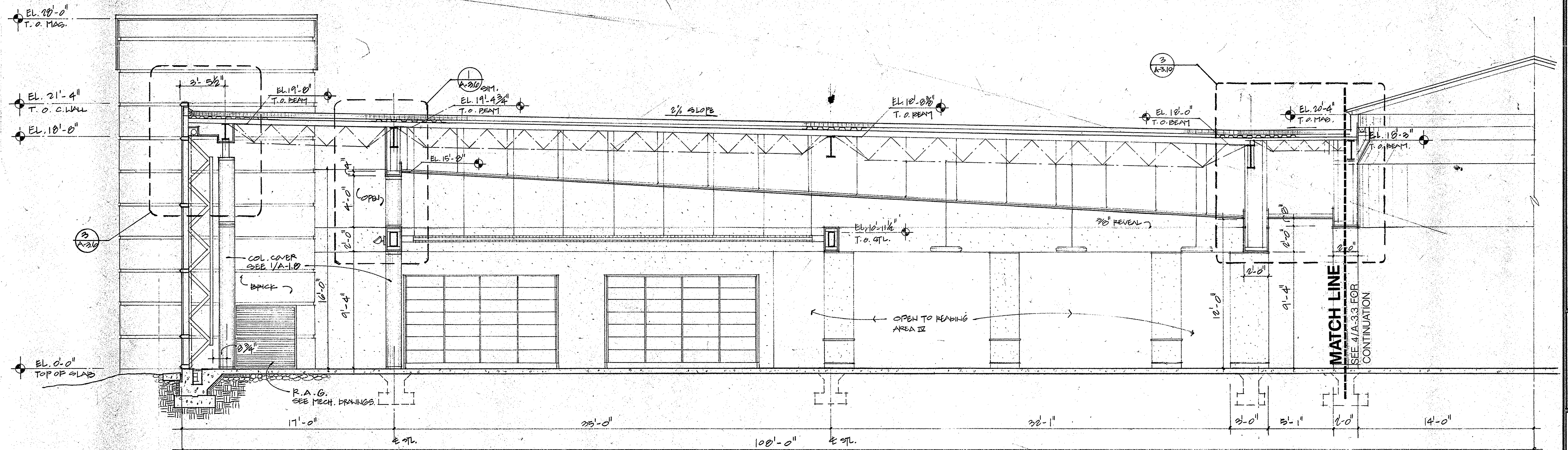
**G R I M M A N D P A R K E R**  
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**ELEVATIONS**  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY, MARYLAND

**A-2.2**  
 BID SET  
 18 FEB 92

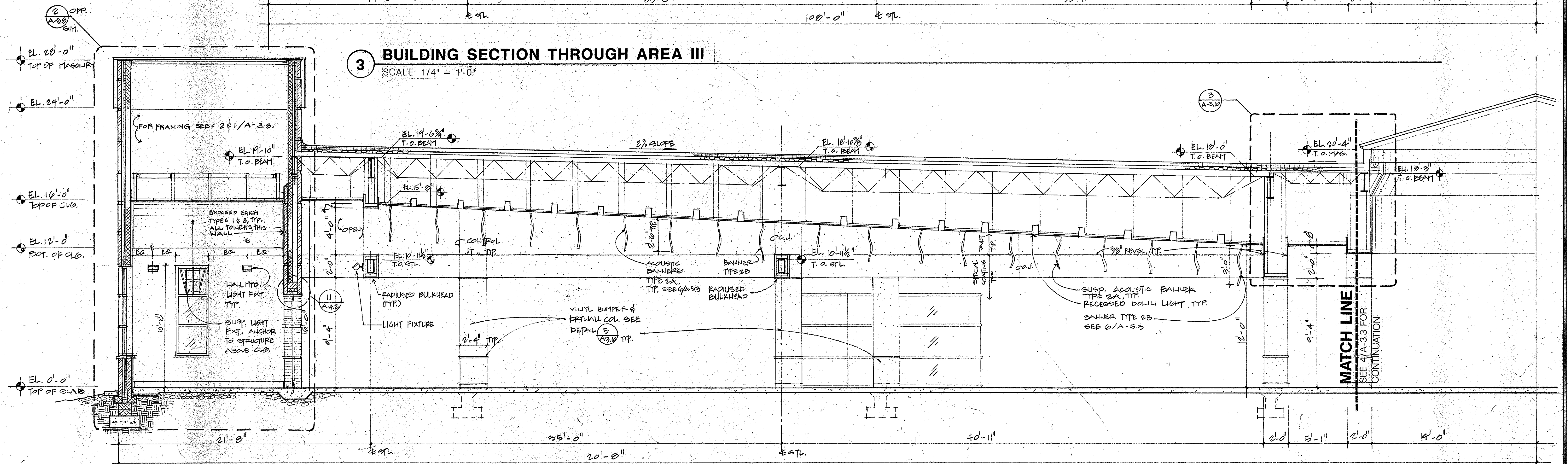
**TYPICAL NOTES**

- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INFERRED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
- IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEDHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED PER GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEED HOLES.



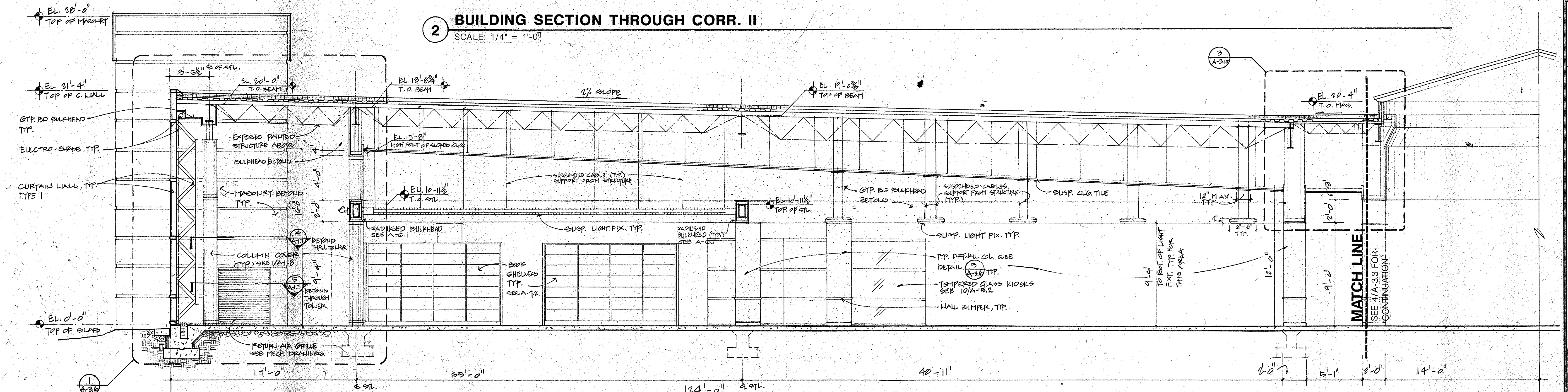
**3 BUILDING SECTION THROUGH AREA III**

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



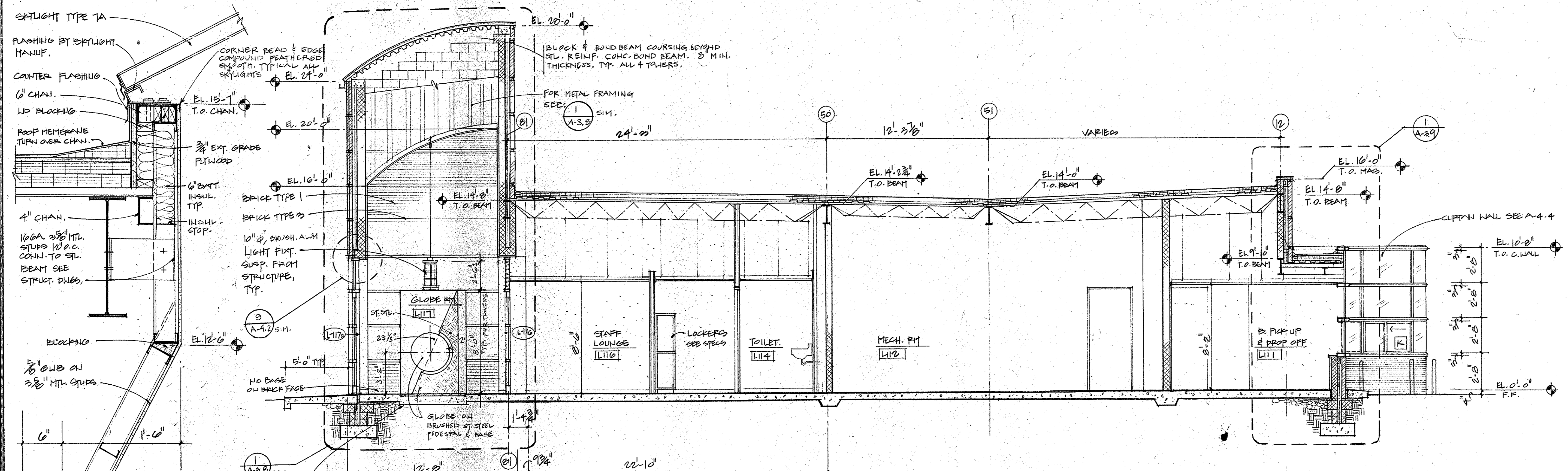
**2 BUILDING SECTION THROUGH CORR. II**

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



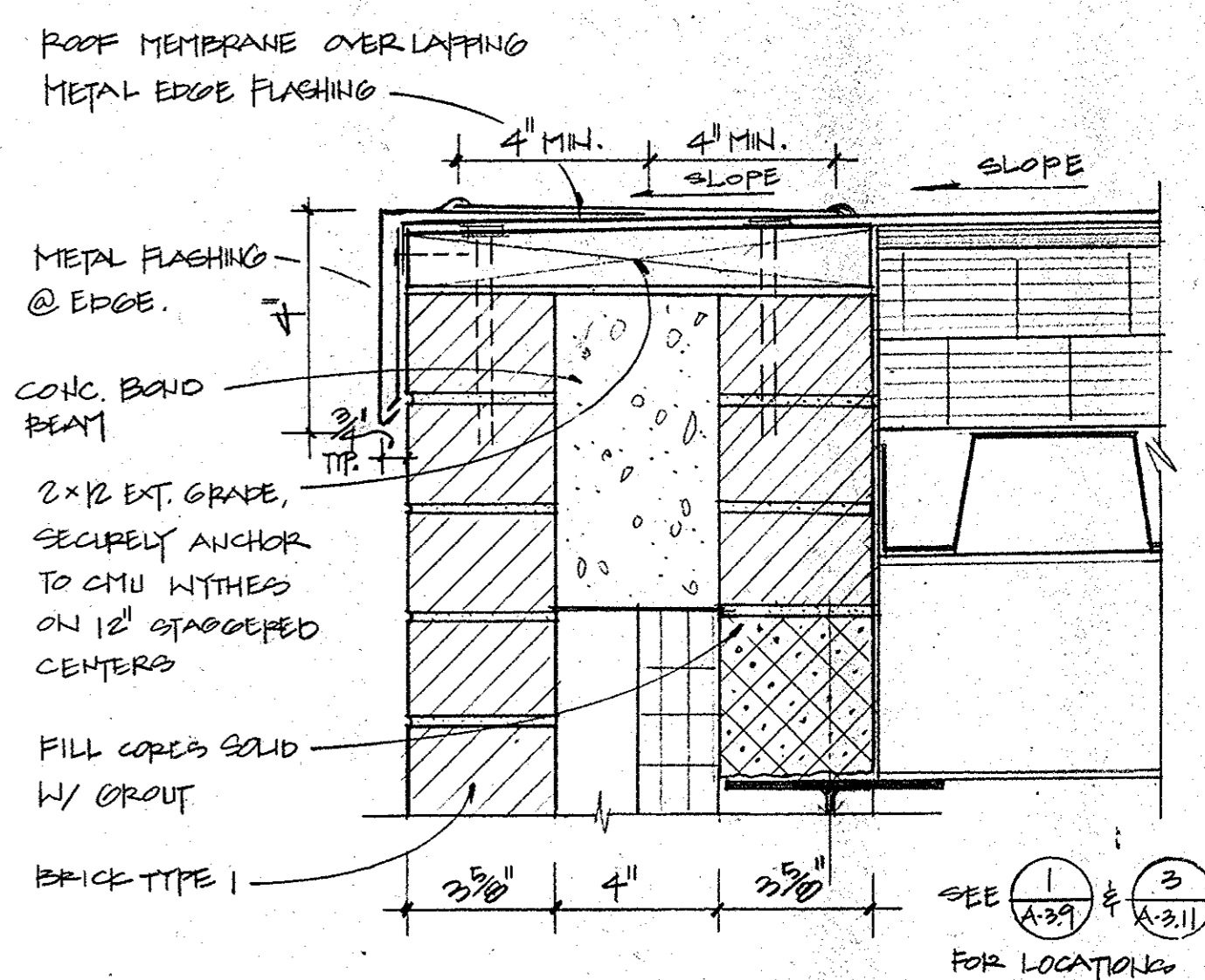
**1 BUILDING SECTION THROUGH AREA I**

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

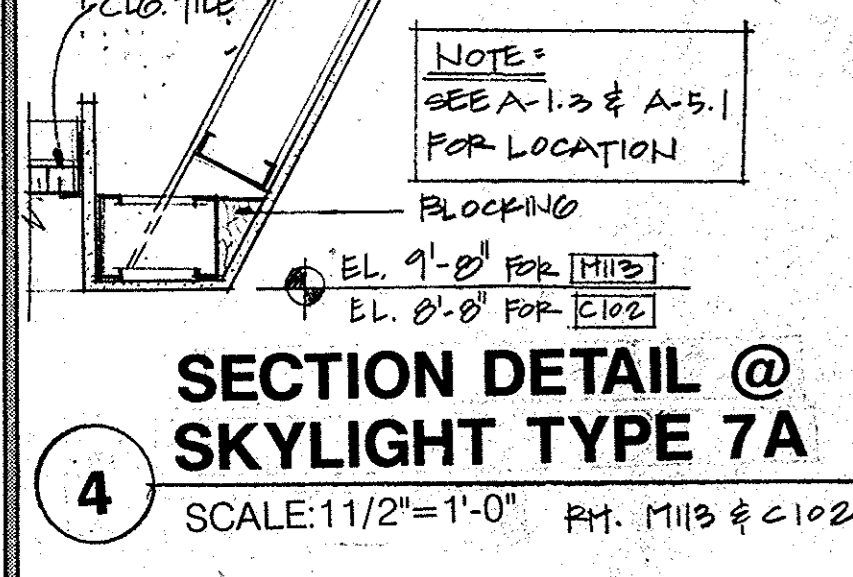


**1 SECTION THROUGH MECH. RM. & STAFF LOUNGE**  
SCALE: 1/4" = 1'-0"

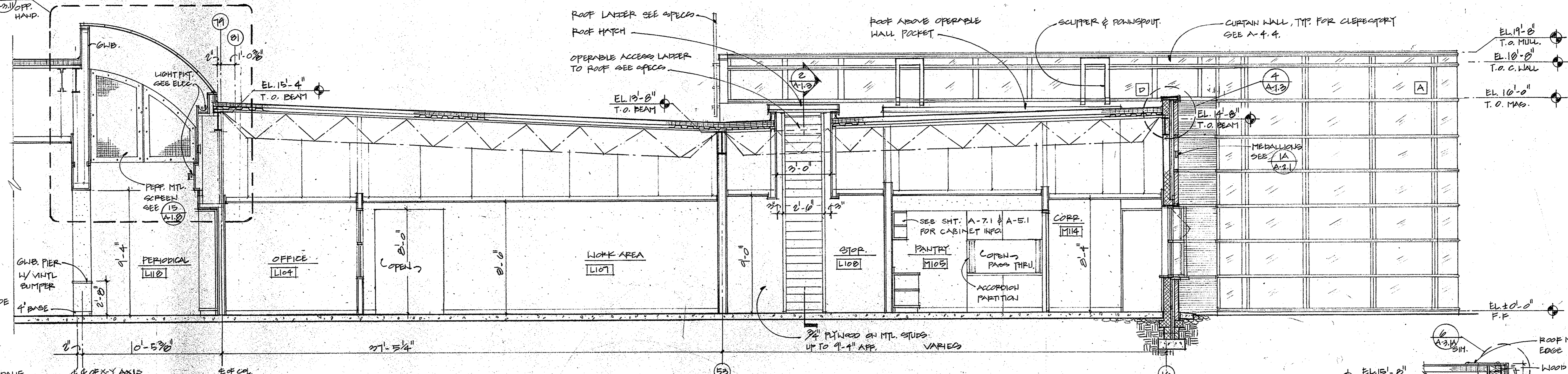
- TYPICAL NOTES**
1. SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
  2. IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED #20 GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.



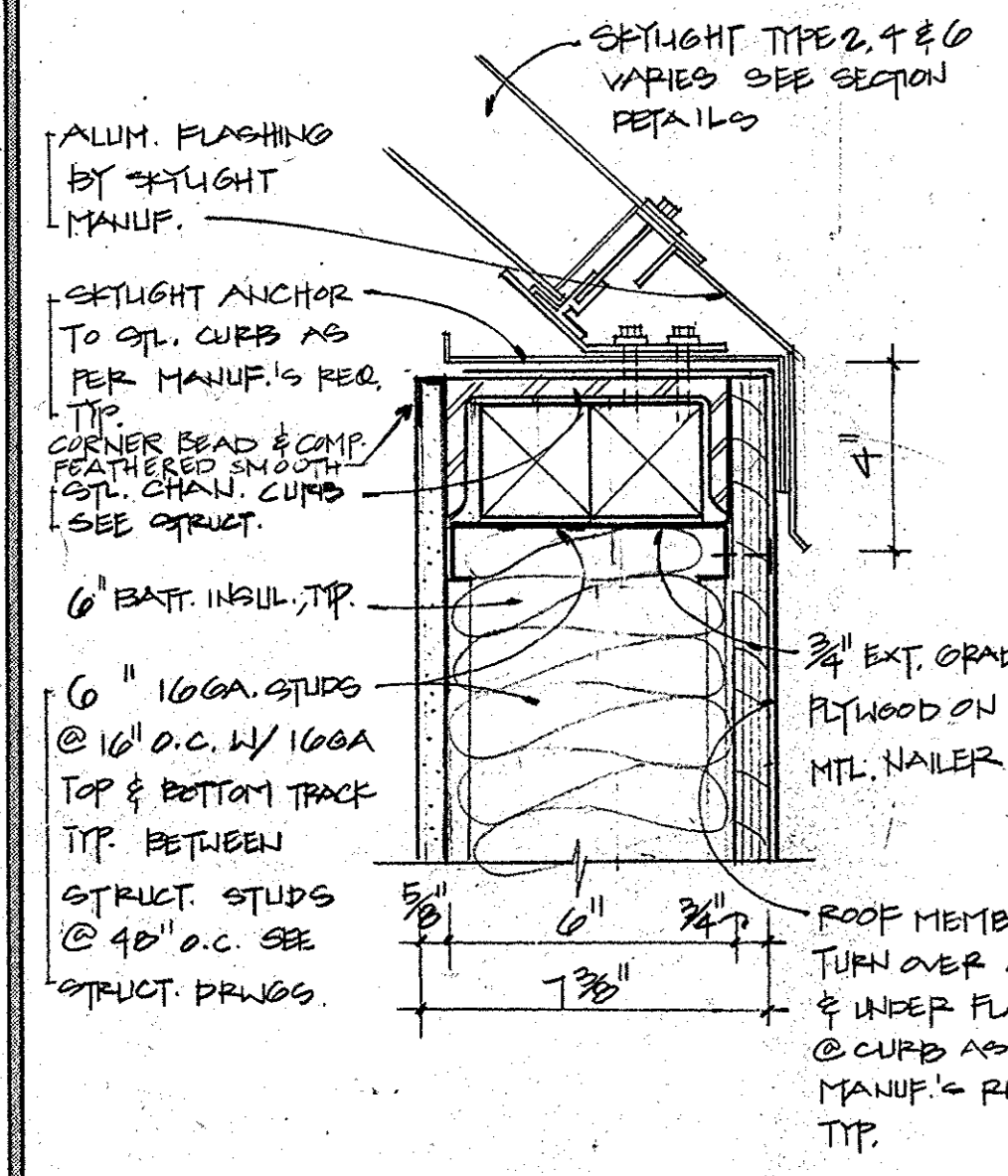
**6 ROOF EDGE DETAIL**  
SCALE: 3" = 1'-0"



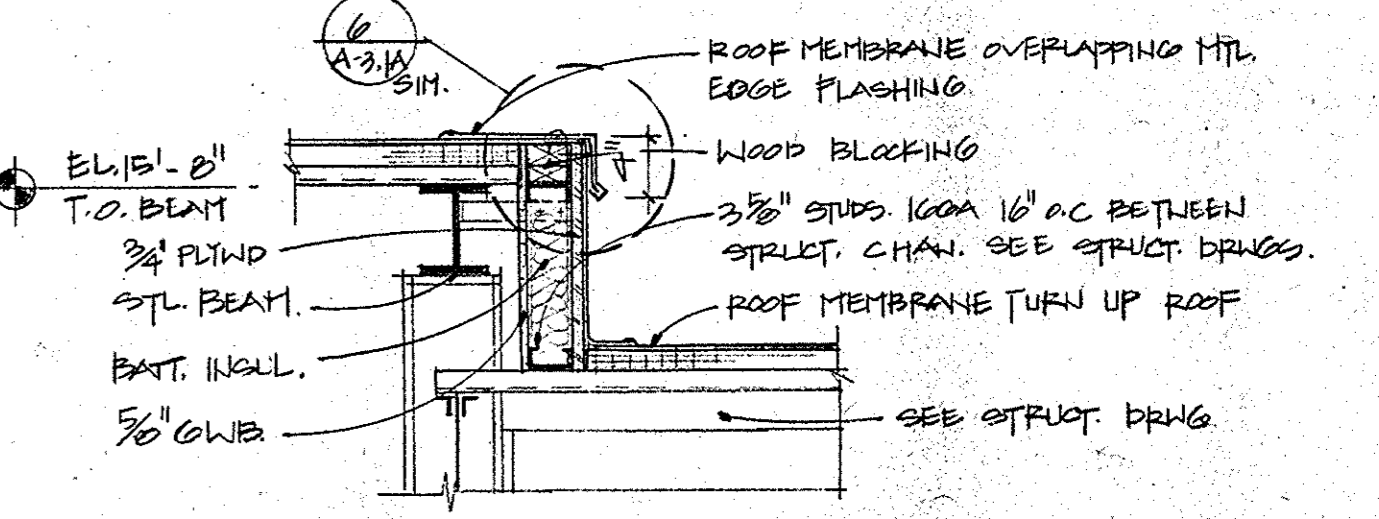
**4 SECTION DETAIL @ SKYLIGHT TYPE 7A**  
SCALE: 1 1/2" = 1'-0" RM. M113 & C102



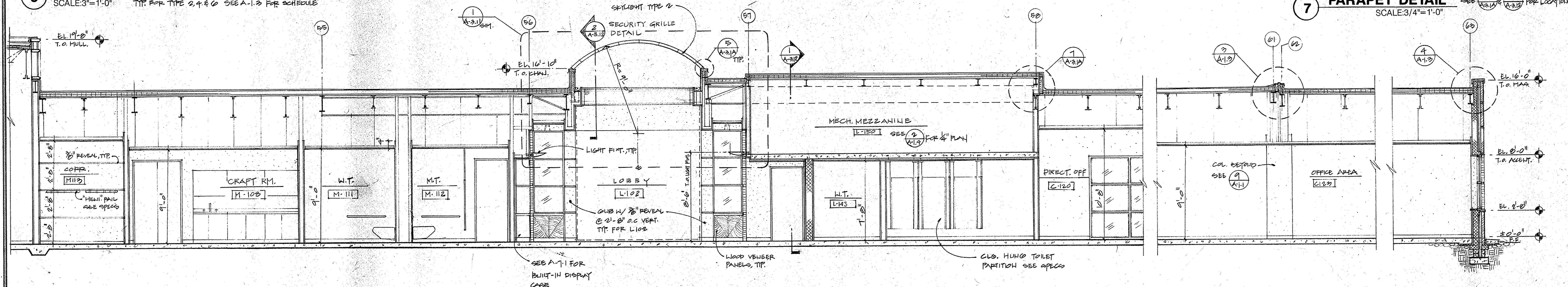
**2 SECTION THROUGH WORK AREA**  
SCALE: 1/4" = 1'-0"



**5 FLASHING DETAIL @ SKYLIGHT CURB**  
SCALE: 3" = 1'-0" TIP FOR TYPE 2, 4 & 6 SEE A-1.3 FOR SCHEDULE



**7 PARAPET DETAIL**  
SCALE: 3/4" = 1'-0" SEE 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 FOR LOCATIONS



**3 SECTION THROUGH MULTIPURPOSE AREA, LOBBY, & OFFICE AREA**  
SCALE: 1/4" = 1'-0"

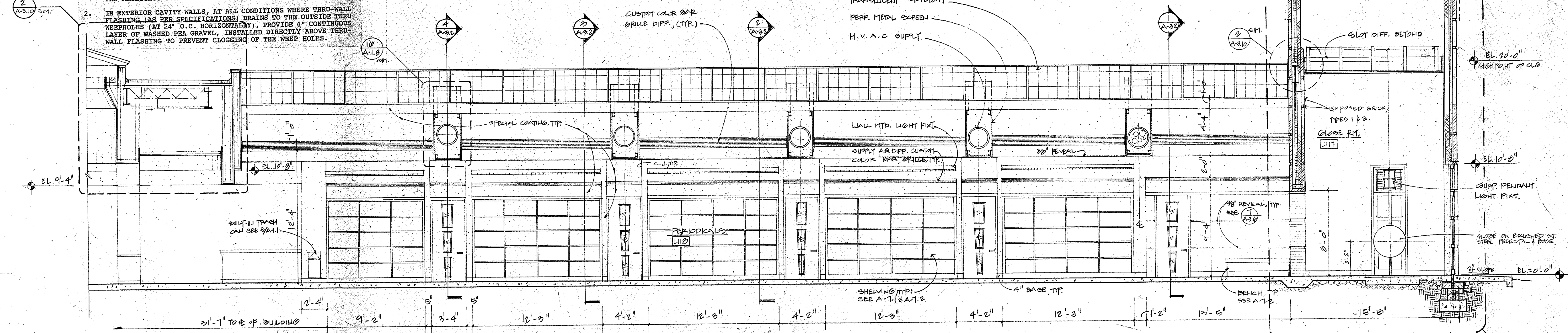
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**BLDG. SECTIONS THROUGH AREAS A & B**  
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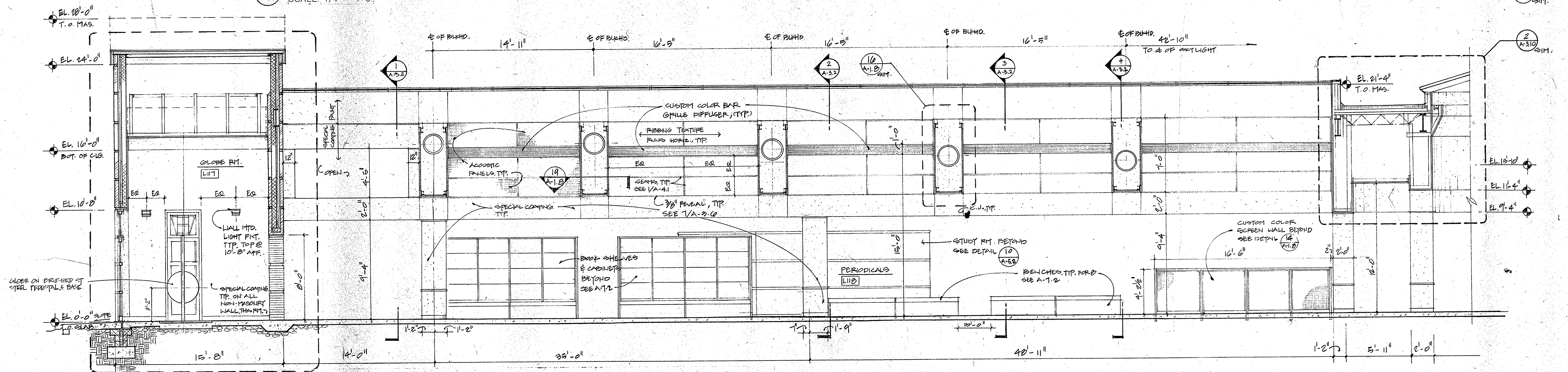
**A-3.1A**  
PERMIT SET  
27 JAN 92

**TYPICAL NOTES**

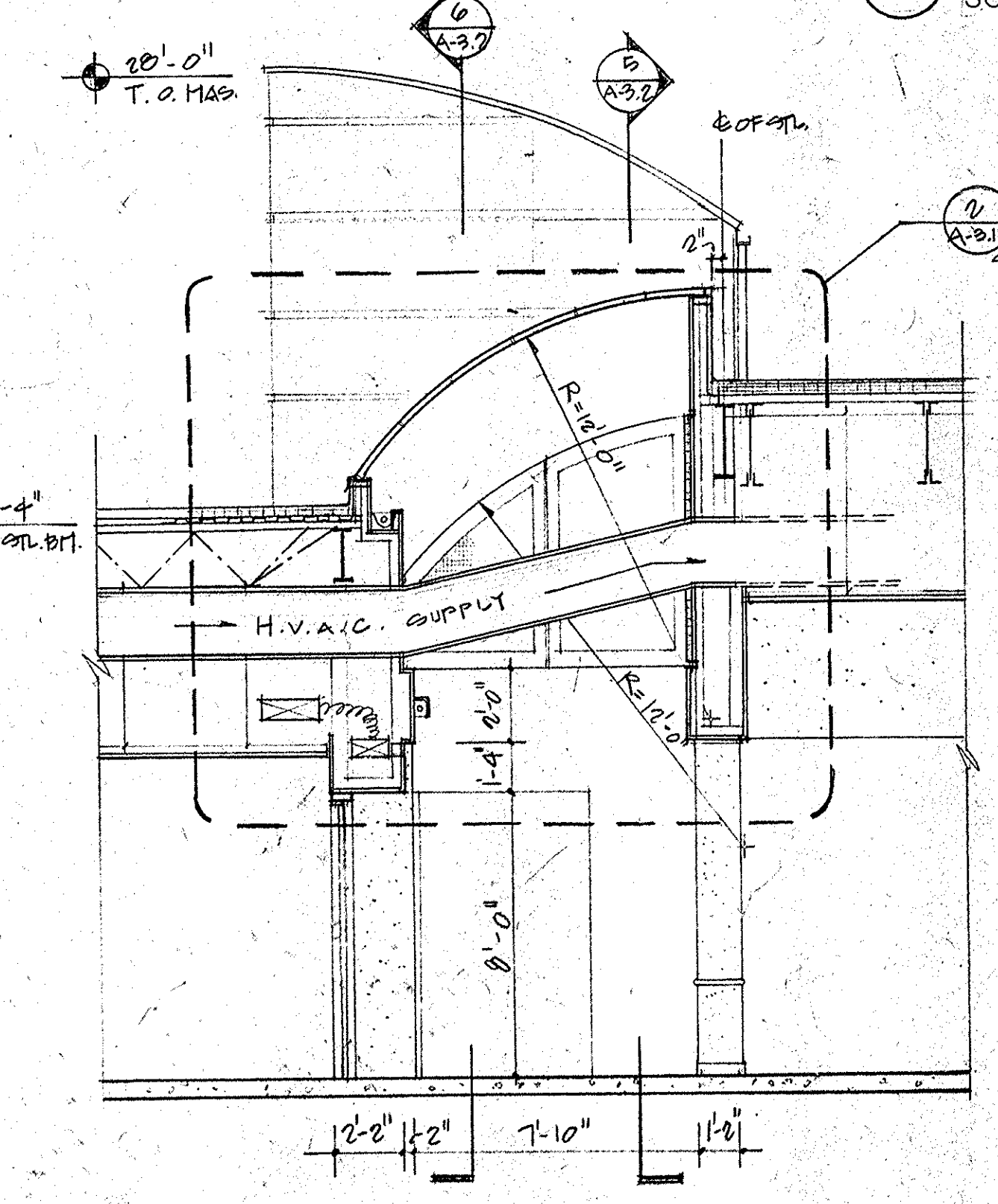
- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
- IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 1" CONTINUOUS LAYER OF WASHED PER GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.



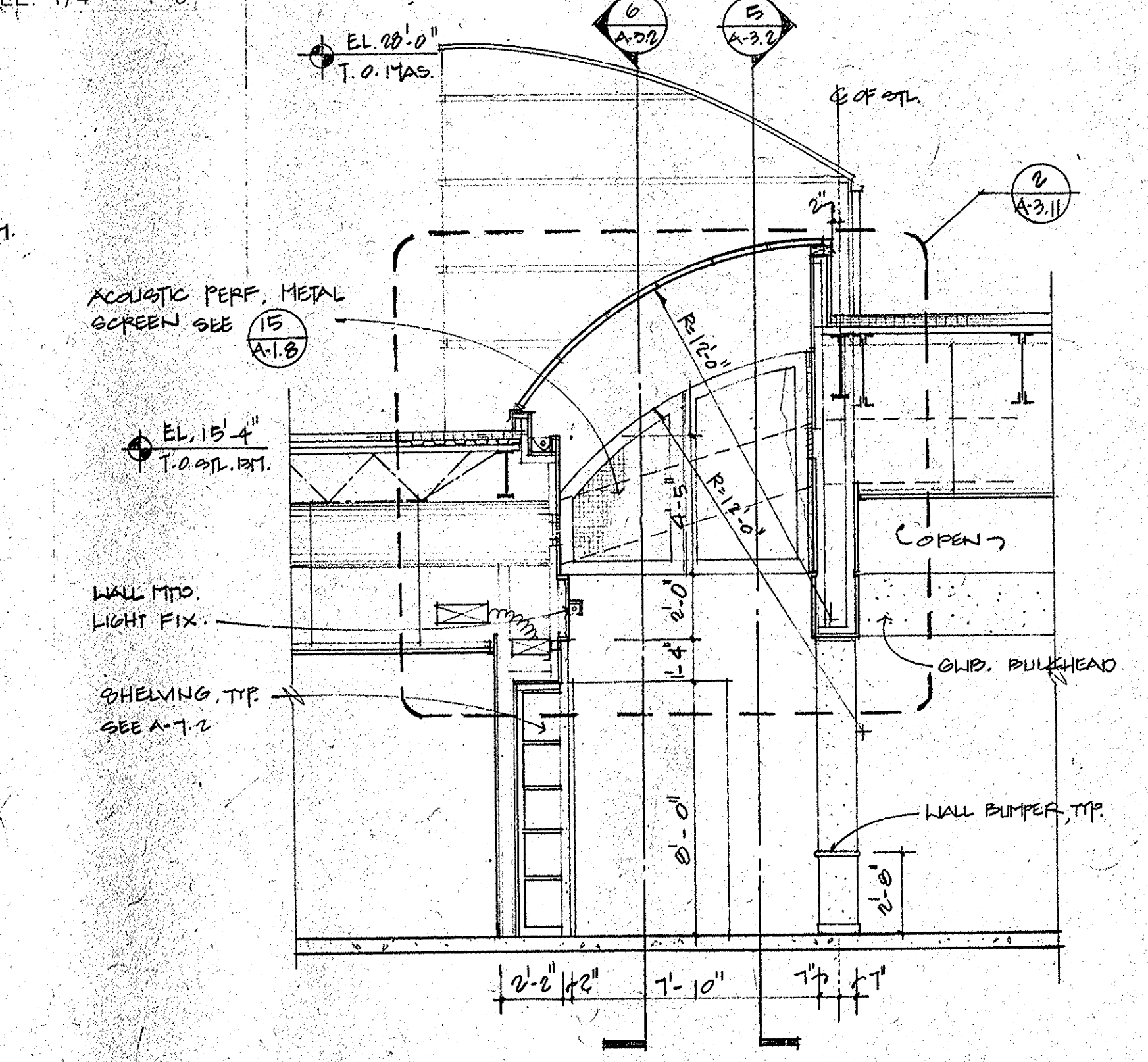
**6 BUILDING SECTION THROUGH PERIODICALS (LOOKING SOUTH)**  
SCALE: 1/4" = 1'-0"



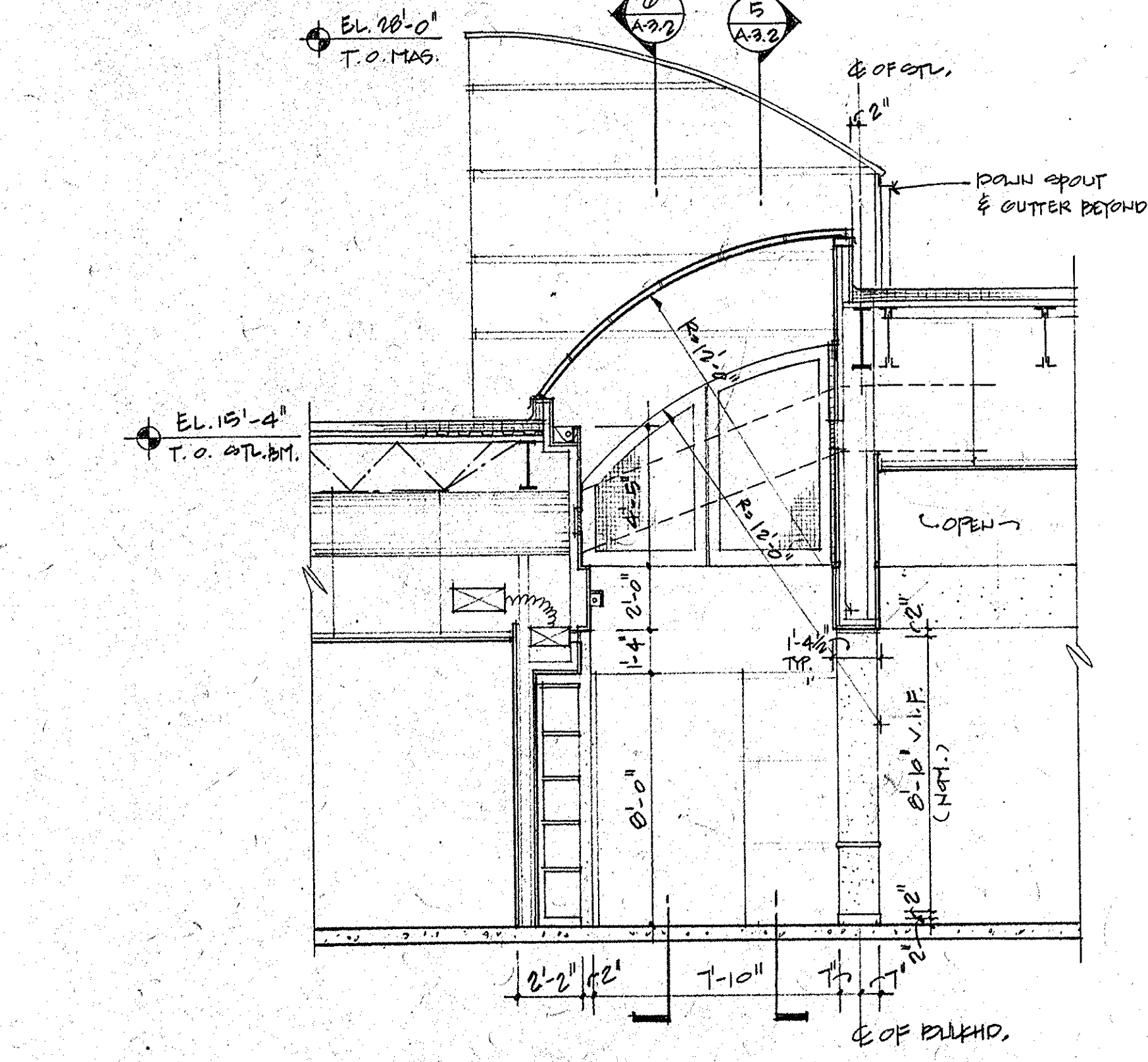
**5 BUILDING SECTION THROUGH PERIODICALS (LOOKING NORTH)**  
SCALE: 1/4" = 1'-0"



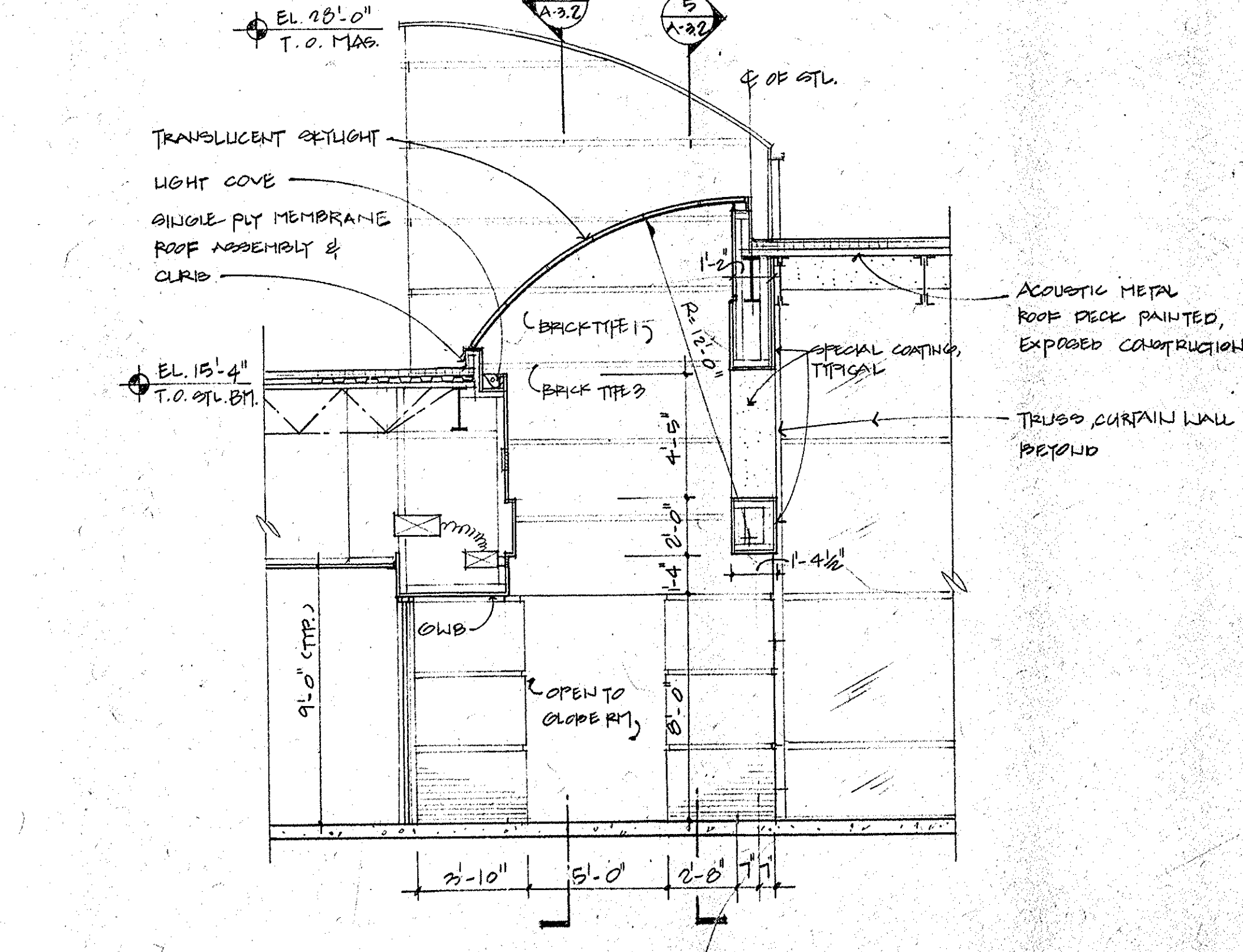
**4 SECTION**  
SCALE: 1/4" = 1'-0"



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



**2 SECTION**  
SCALE: 1/4" = 1'-0"



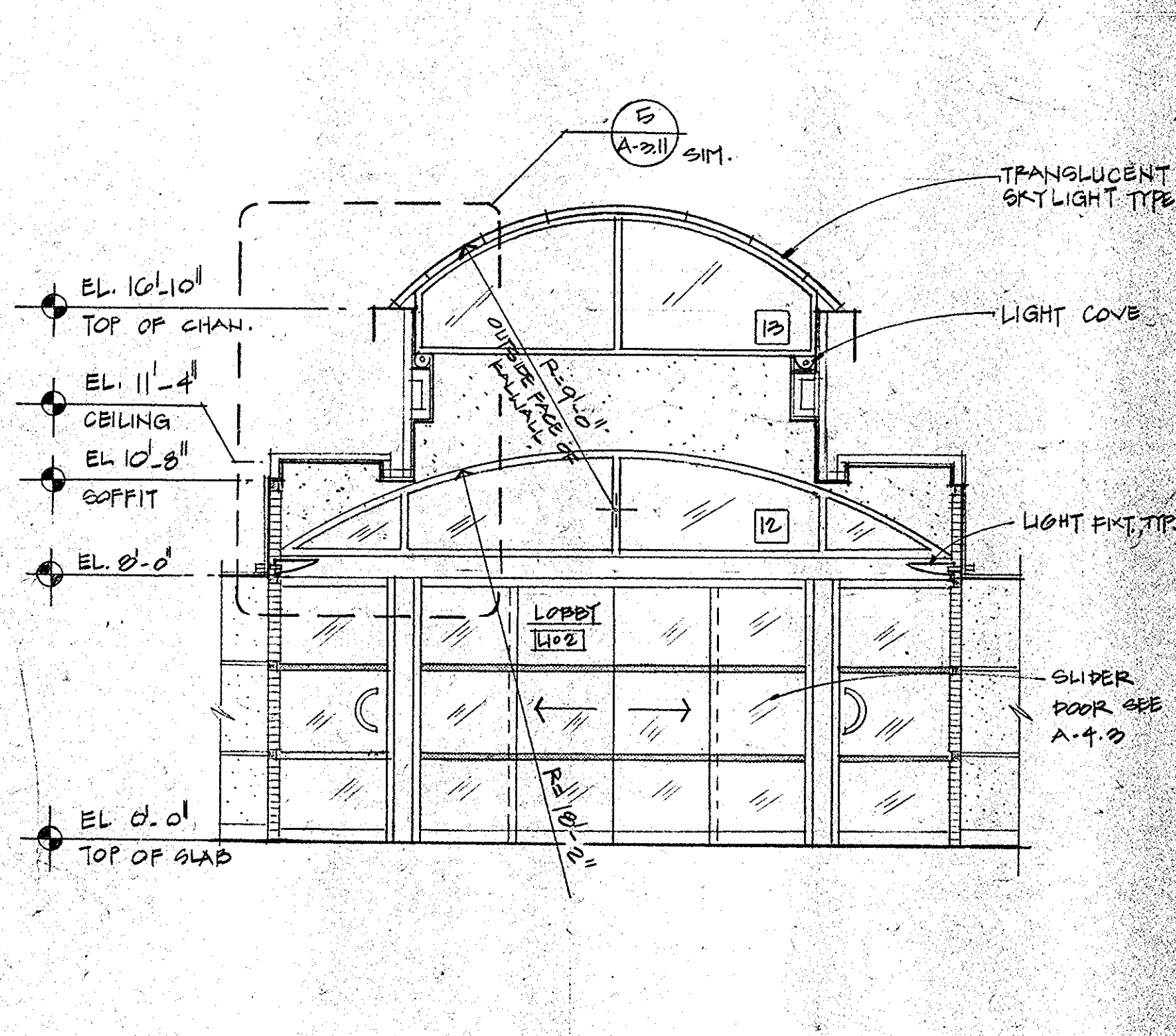
**1 SECTION**  
SCALE: 1/4" = 1'-0"

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**1/4" SECTIONS THRU SKYLIT CORRIDOR**  
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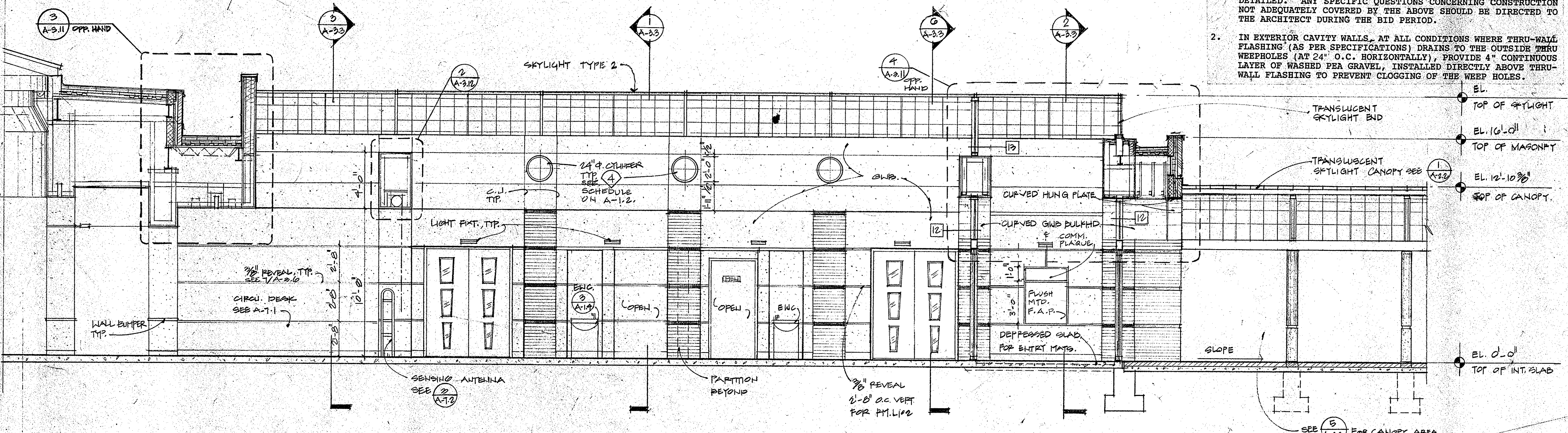


**TYPICAL NOTES**

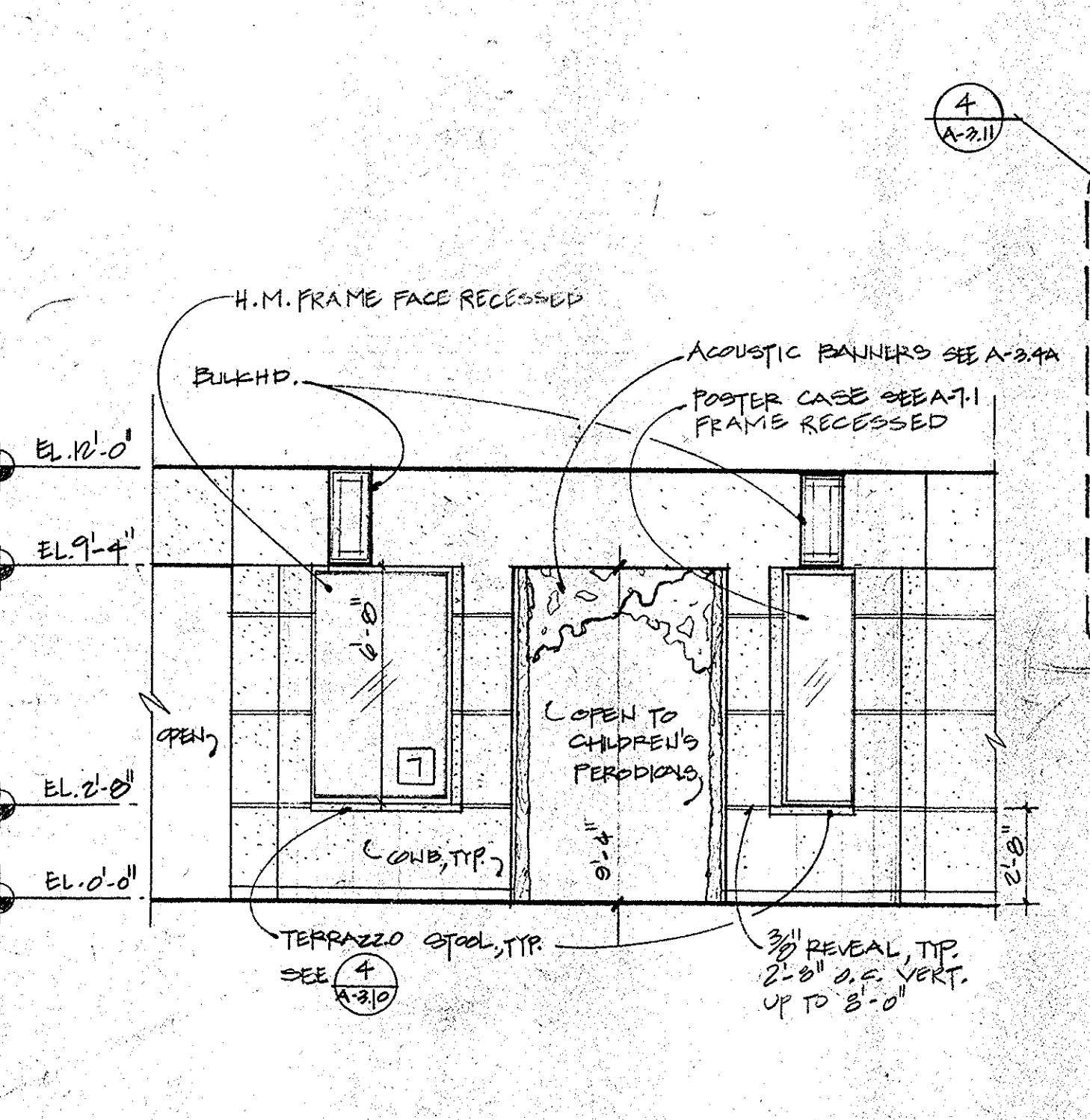
- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
- IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED PEA GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.



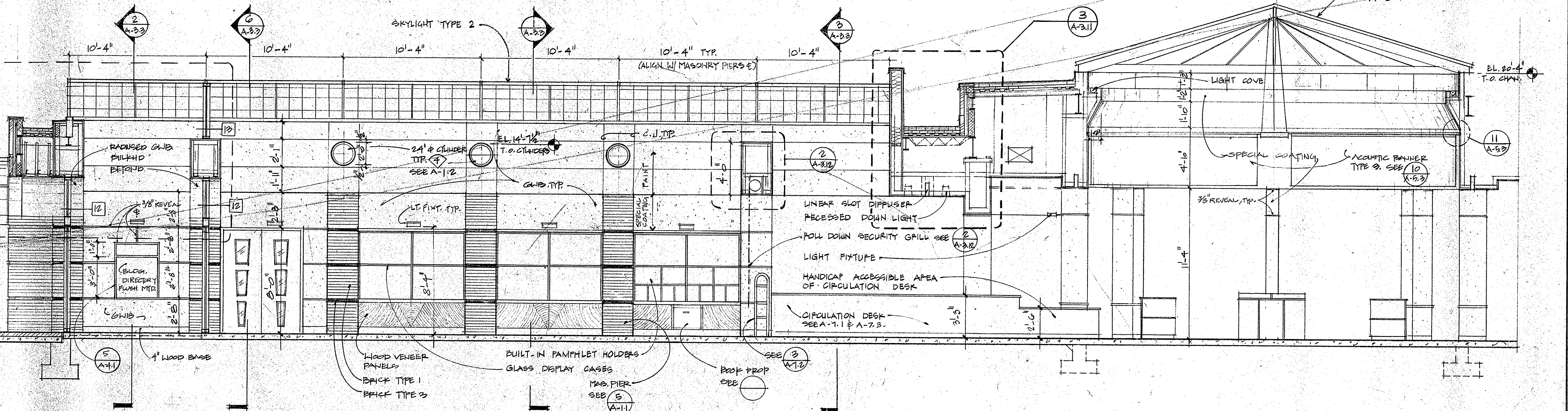
**6 SECTION THRU LOBBY**  
SCALE: 1/4" = 1'-0"



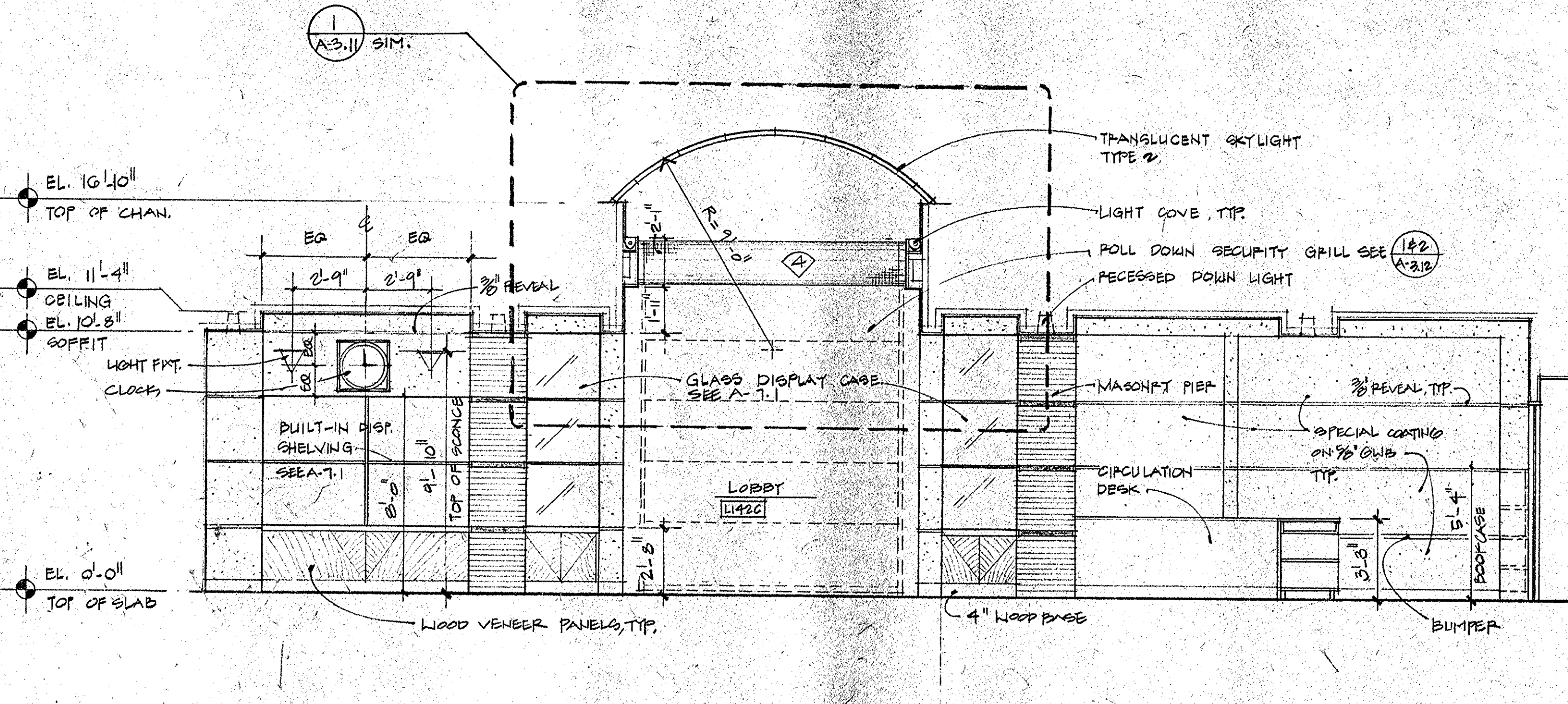
**5 SECTION THROUGH LOBBY LOOKING EAST**  
SCALE: 1/4" = 1'-0"



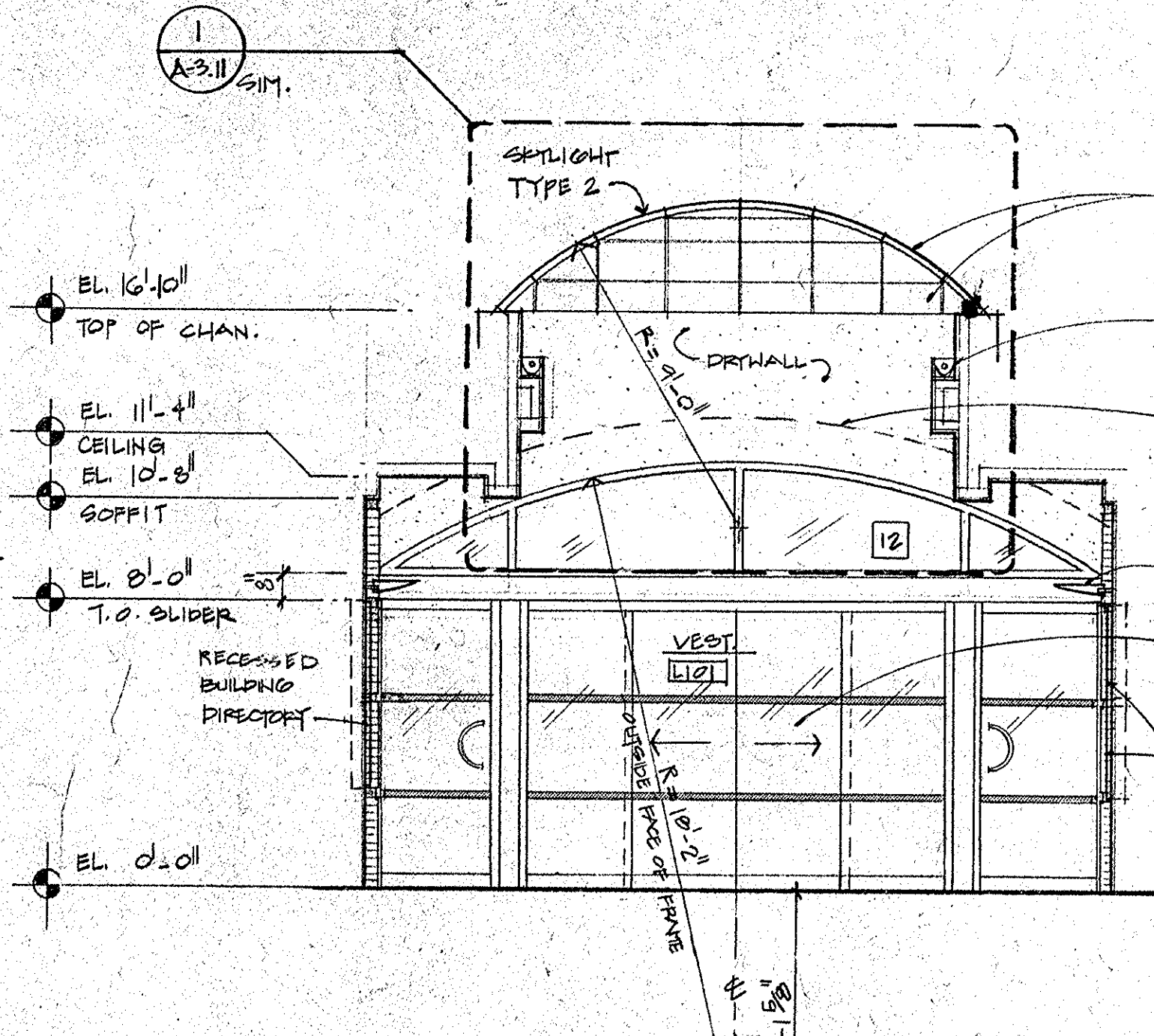
**7 INT. ELEVATION @ L-142A**  
SCALE: 1/4" = 1'-0"



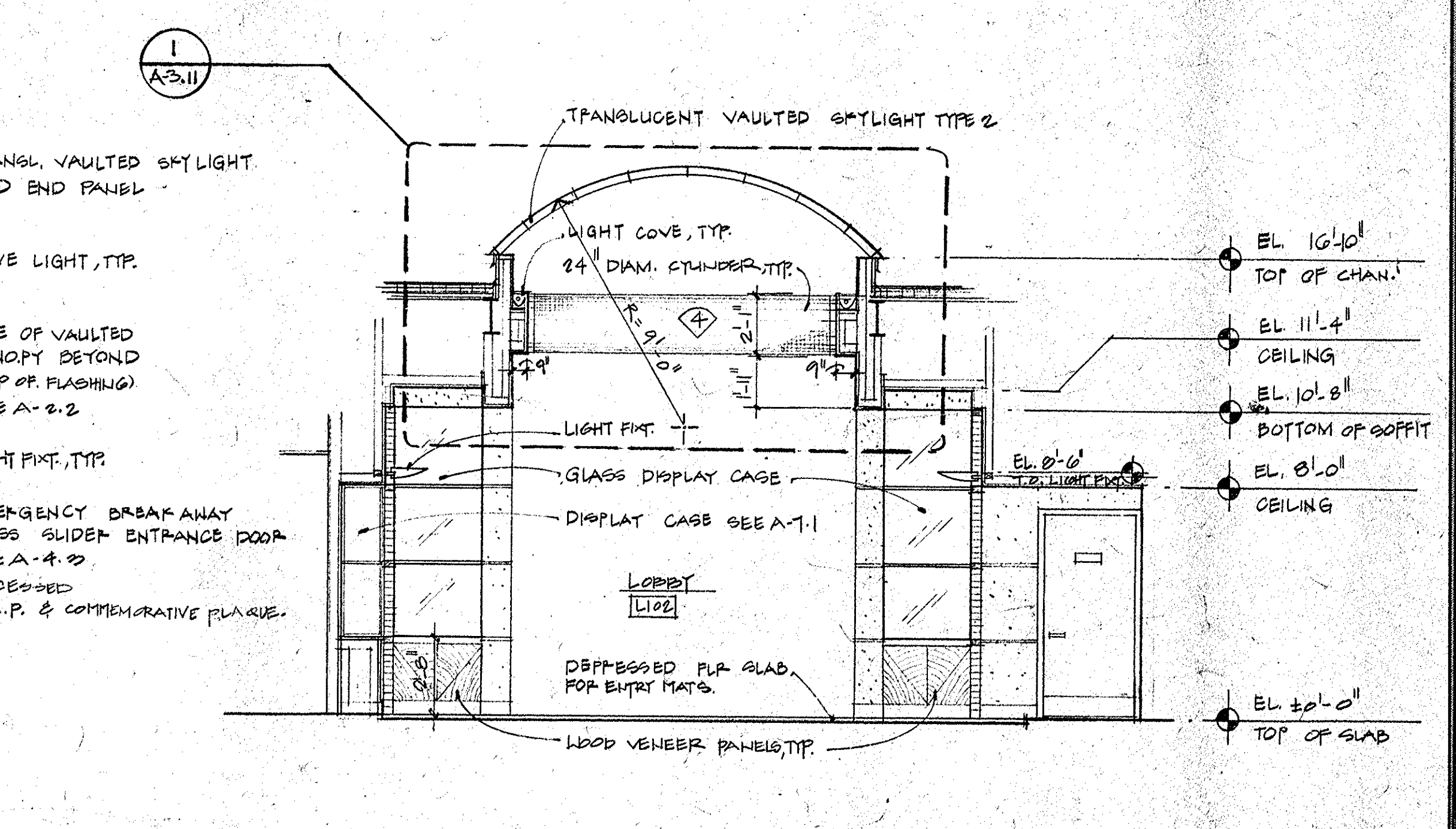
**4 SECTION THROUGH LOBBY LOOKING WEST**  
SCALE: 1/4" = 1'-0"



**3 SECTION THROUGH LOUNGE & CIRCULATION DESK**  
SCALE: 1/4" = 1'-0"

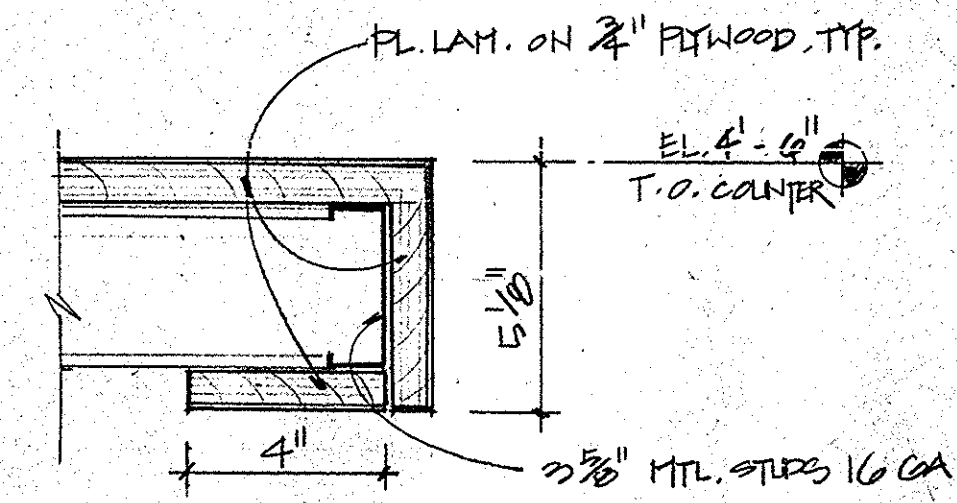


**2 SECTION THROUGH VESTIBULE**  
SCALE: 1/4" = 1'-0"

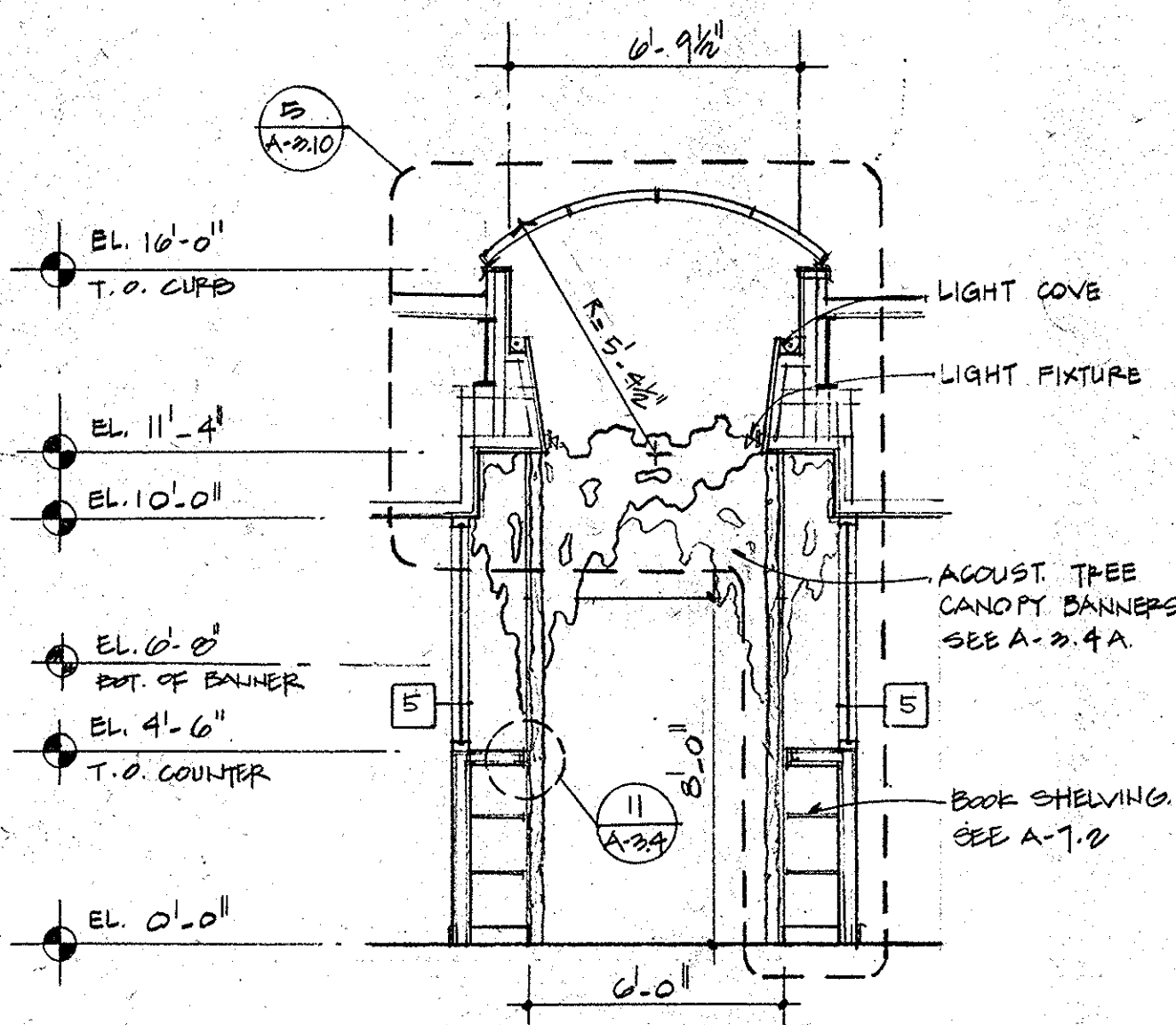


**1 SECTION THROUGH LOBBY LOOKING NORTH**  
SCALE: 1/4" = 1'-0"

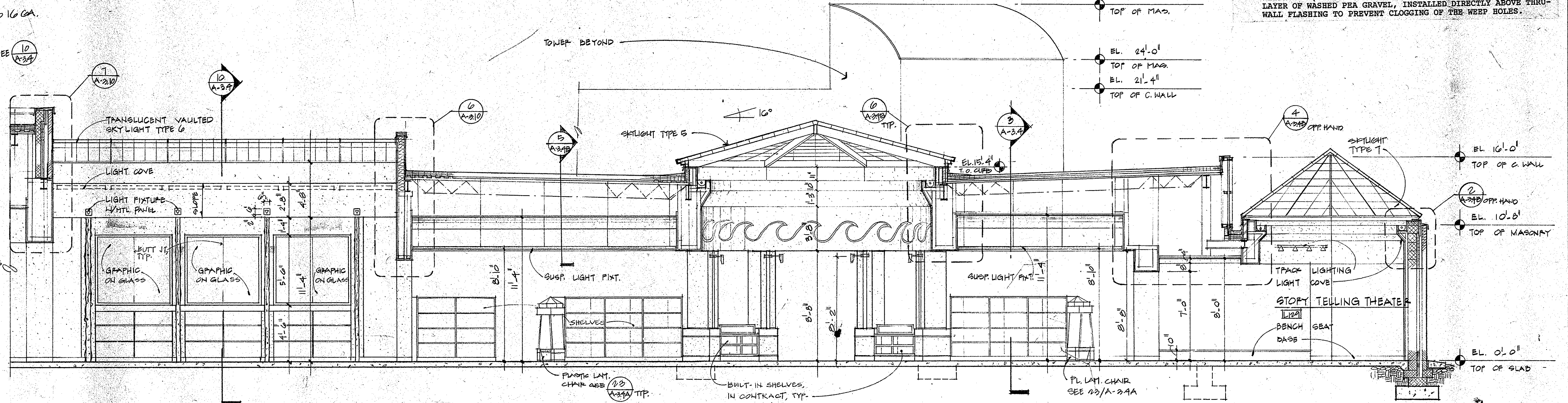
- TYPICAL NOTES**
- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
  - IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED PEA GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.



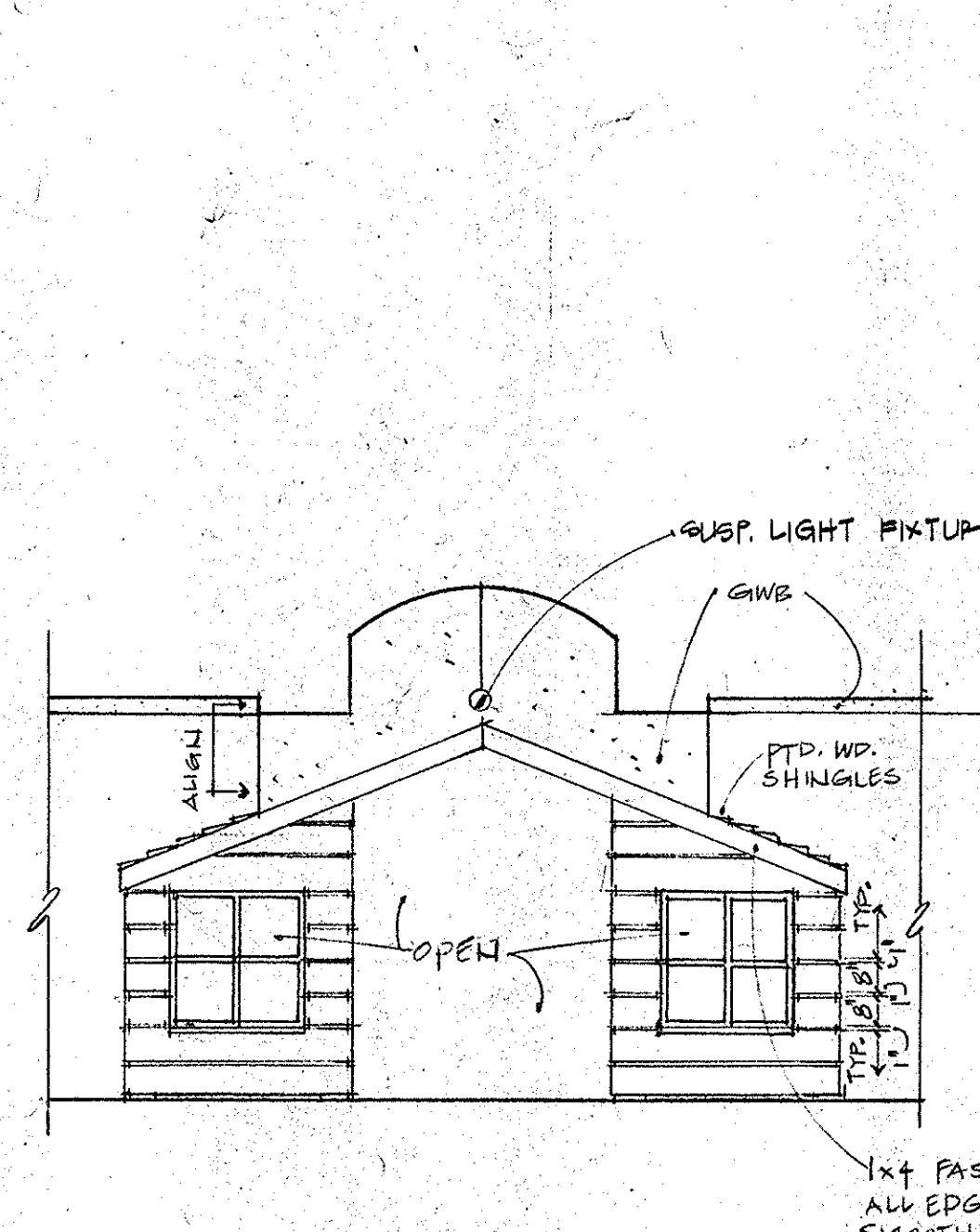
**11 COUNTER EDGE DETAIL**  
SCALE: 1 1/2" = 1'-0"



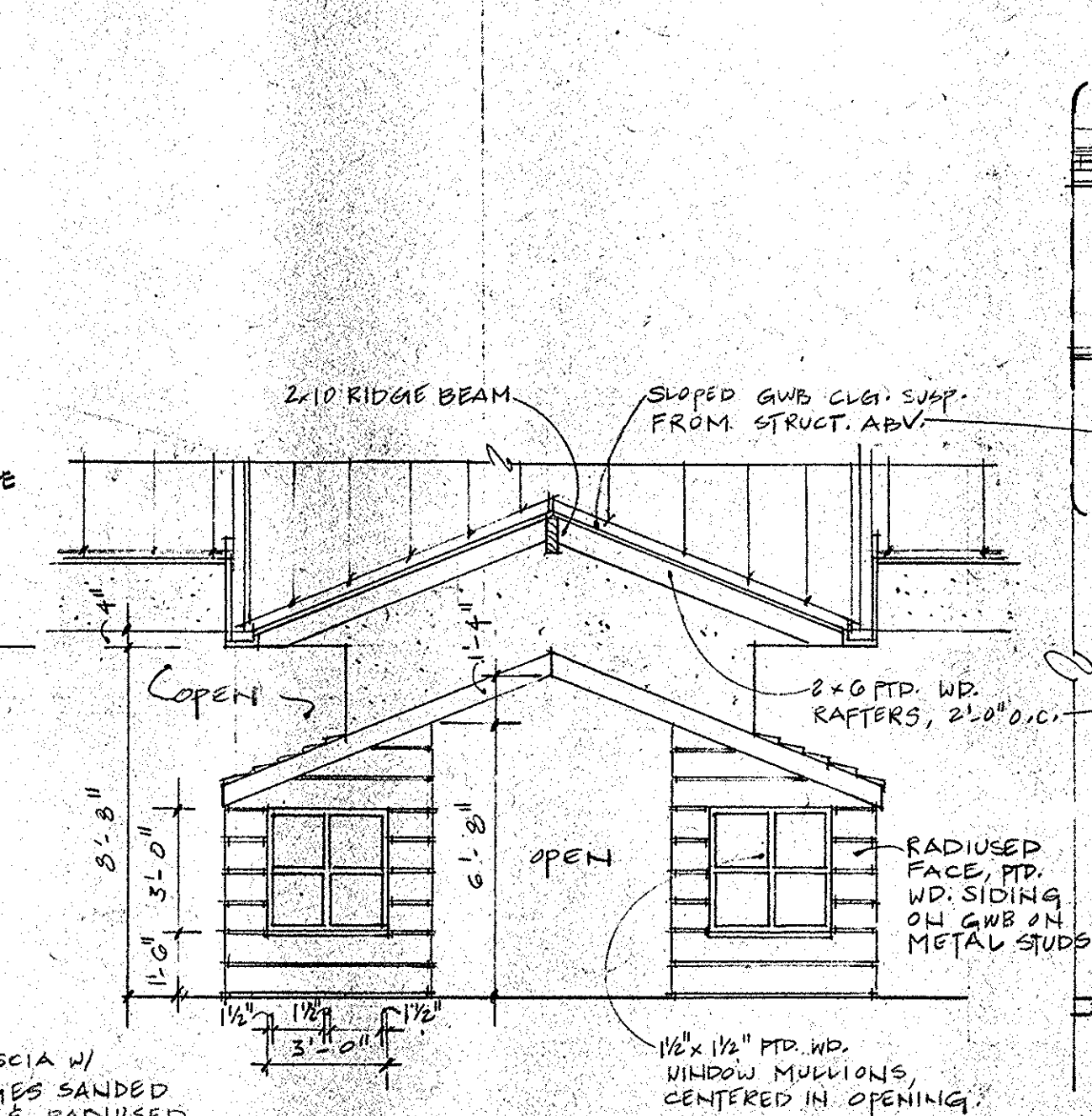
**10 SECTION**  
SCALE: 1/4" = 1'-0"



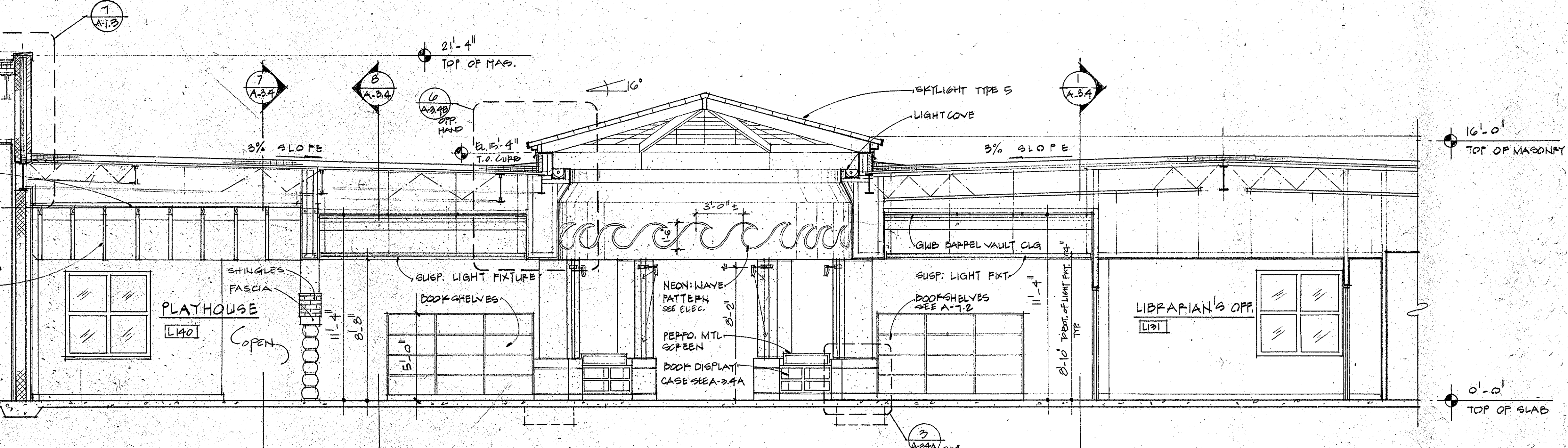
**9 SECTION THROUGH CHILDREN'S AREA & PERIODICAL**  
SCALE: 1/4" = 1'-0"



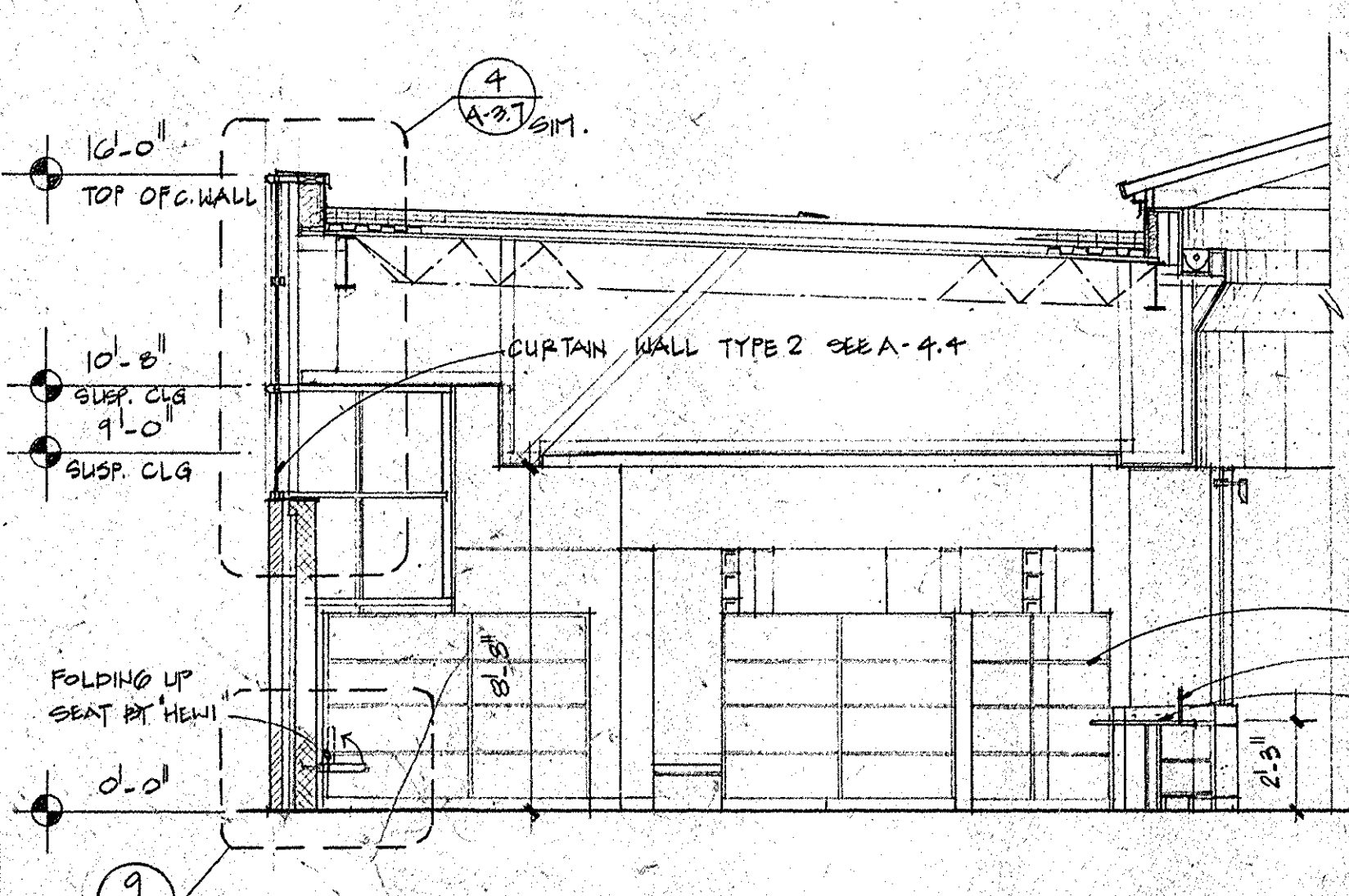
**8 ELEVATION OF PLAYHOUSE**  
SCALE: 1/4" = 1'-0"



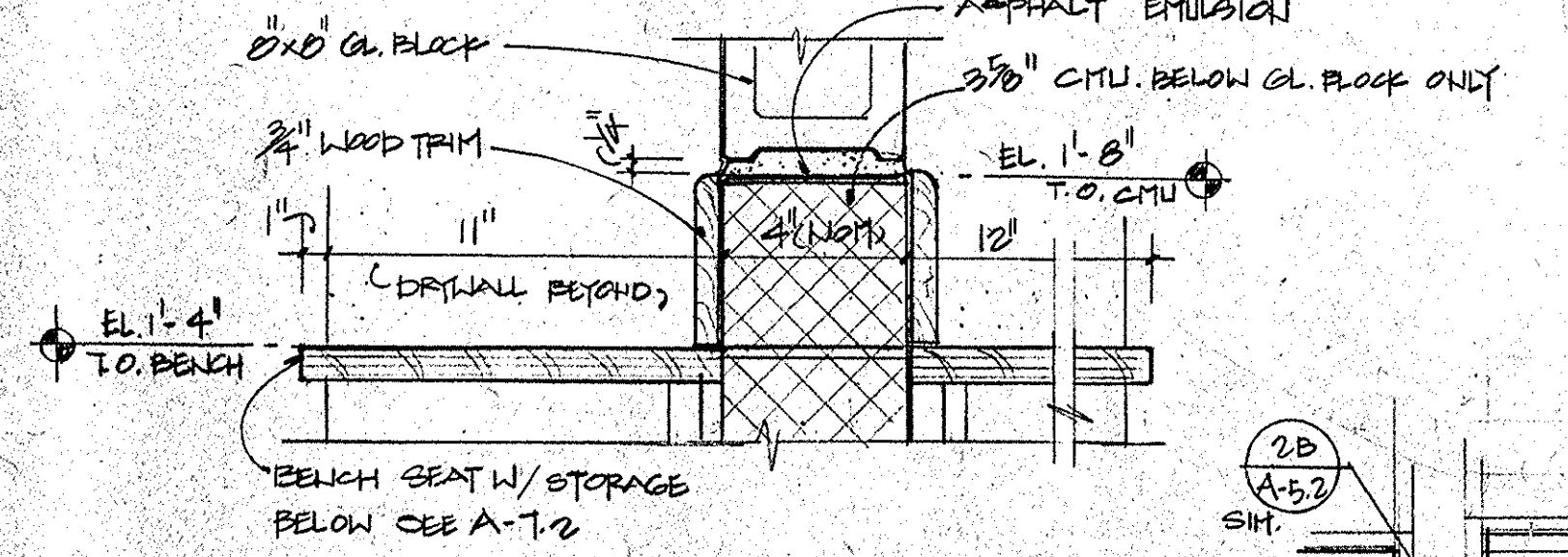
**7 SECTION THROUGH PLAYHOUSE**  
SCALE: 1/4" = 1'-0"



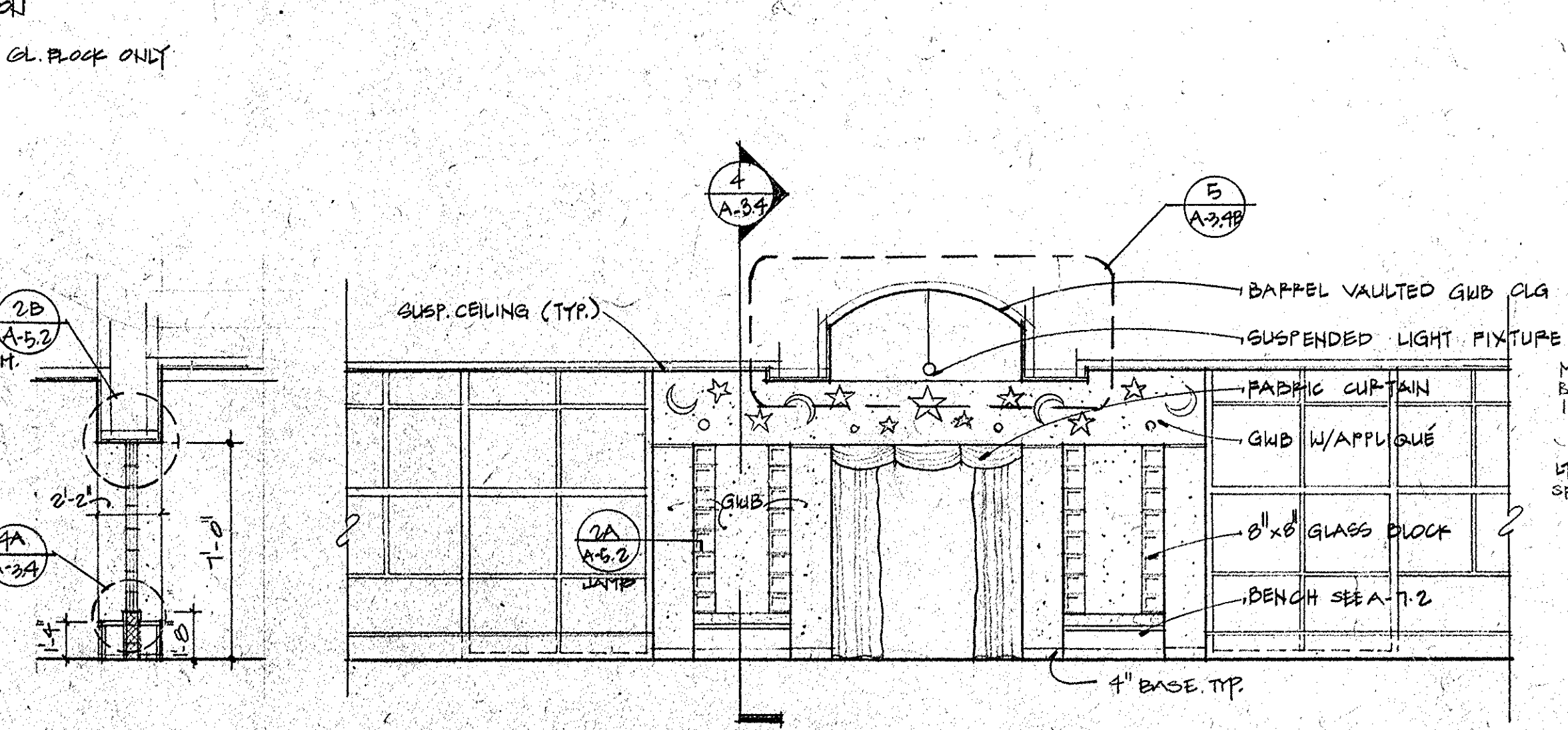
**6 SECTION THROUGH CHILDREN'S AREA**  
SCALE: 1/4" = 1'-0"



**5 SECTION THROUGH CHILDREN'S COLLECTION**  
SCALE: 1/4" = 1'-0"

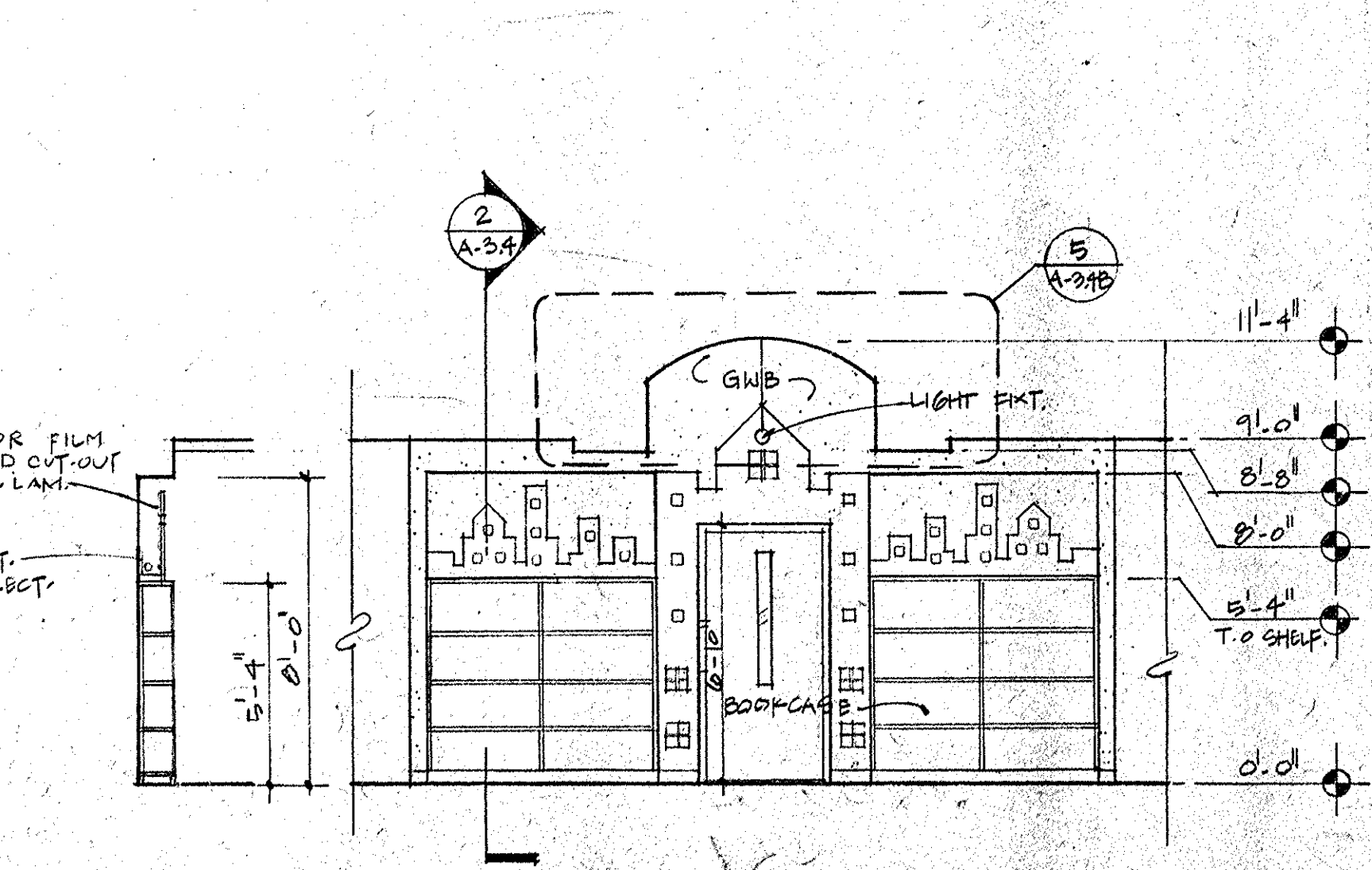


**4A SILL**  
SCALE: 3" = 1'-0"



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

**3 ELEVATION - STORY TELLING THEATER**  
SCALE: 1/4" = 1'-0"



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

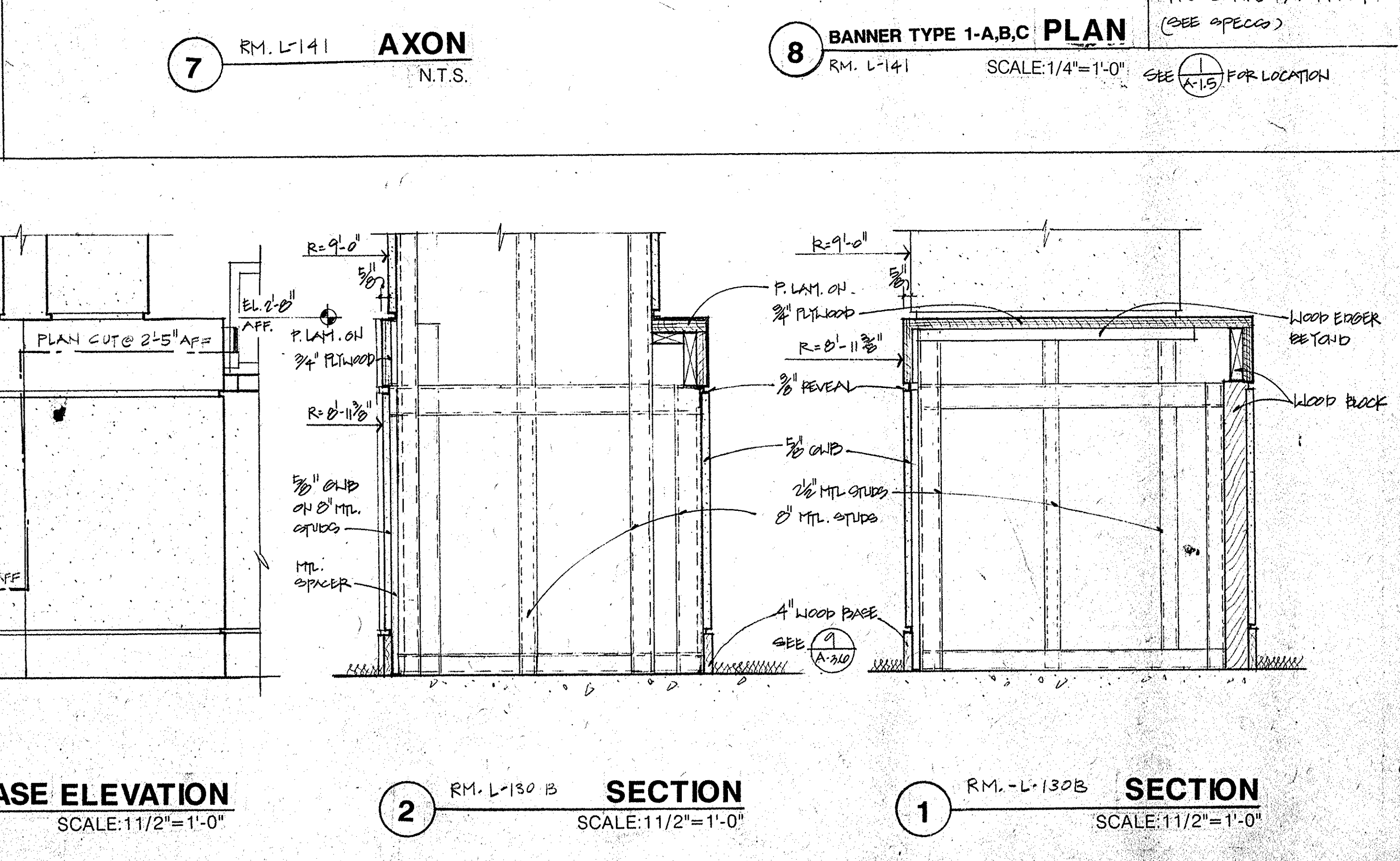
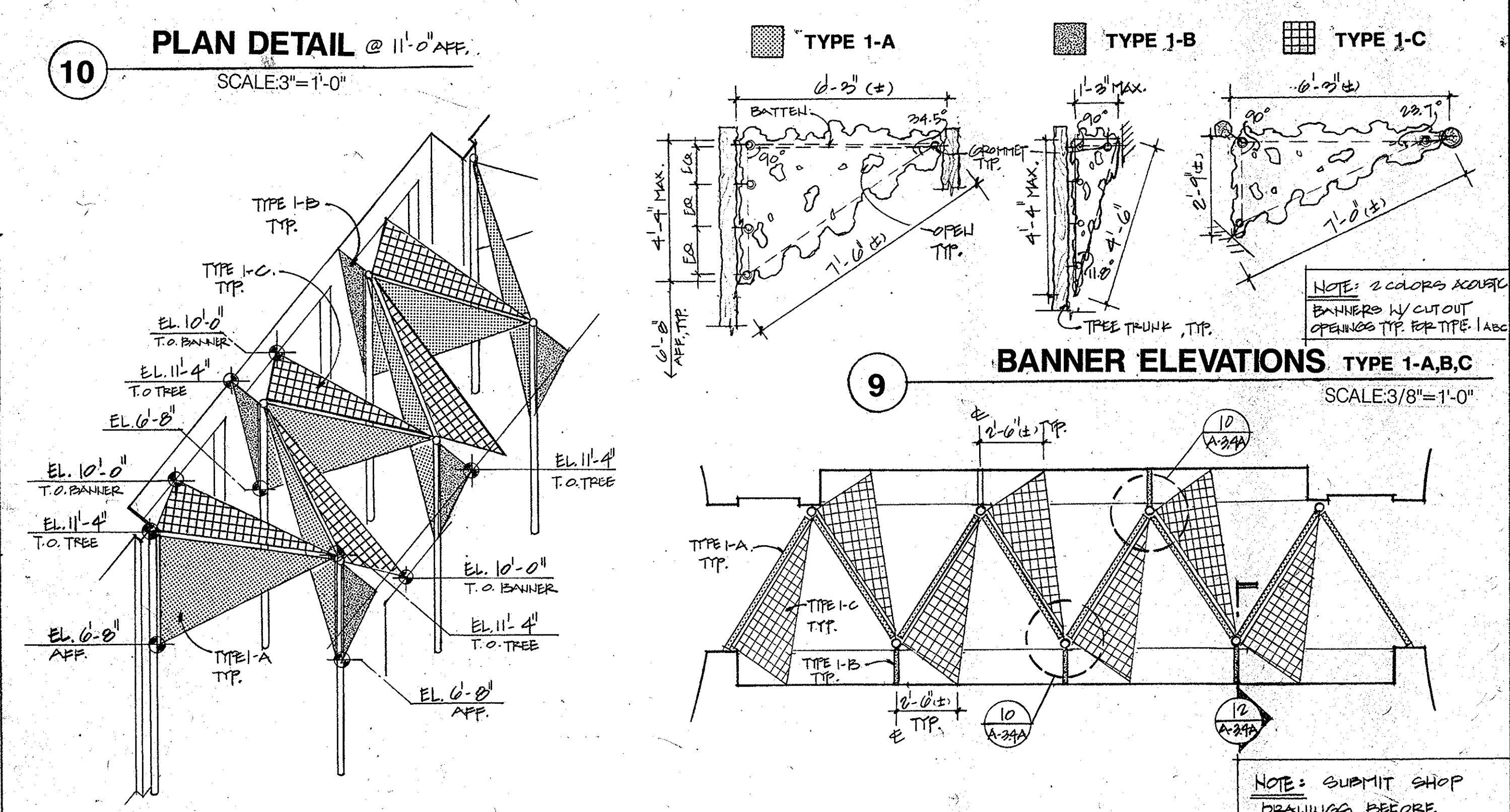
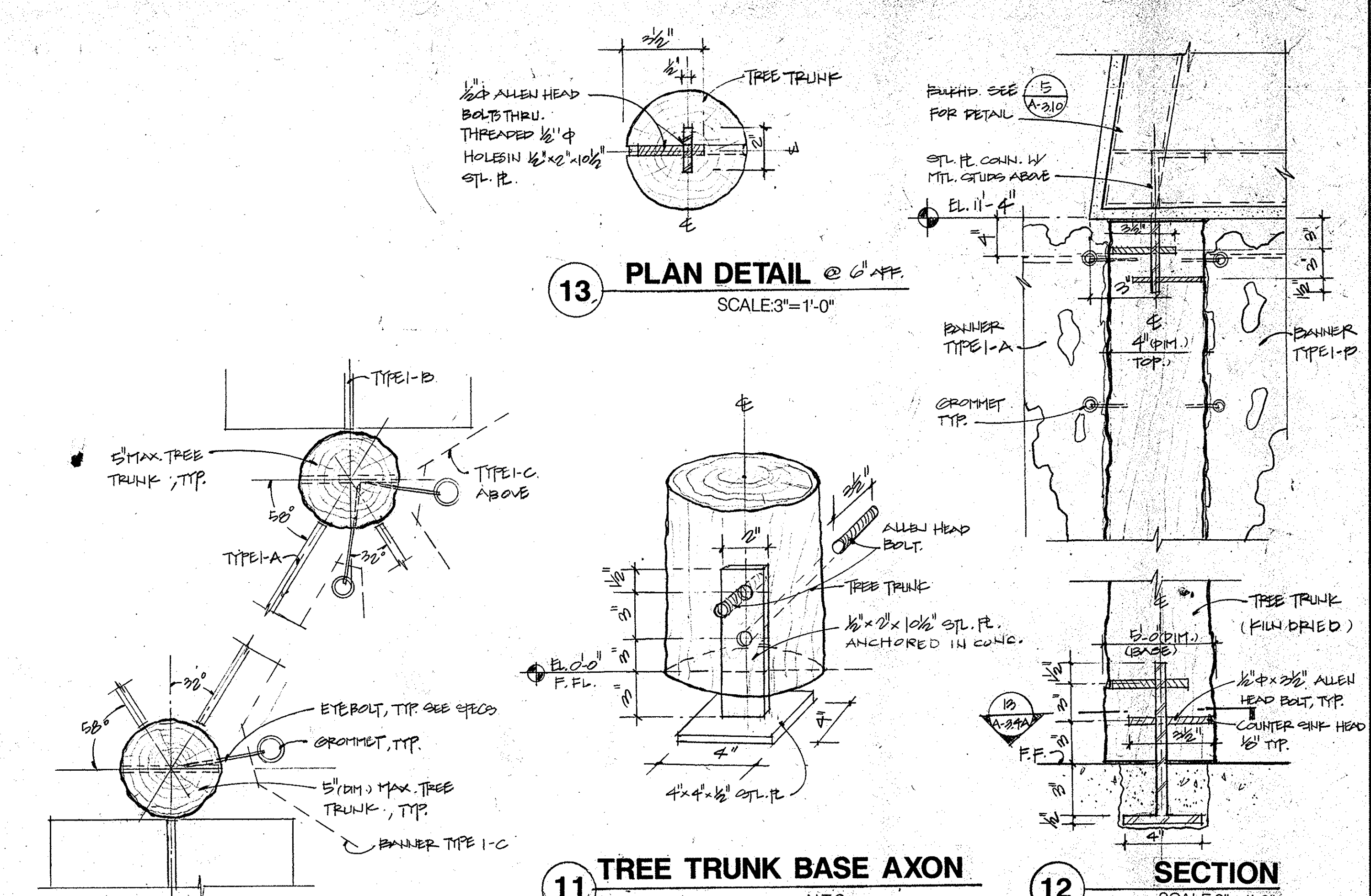
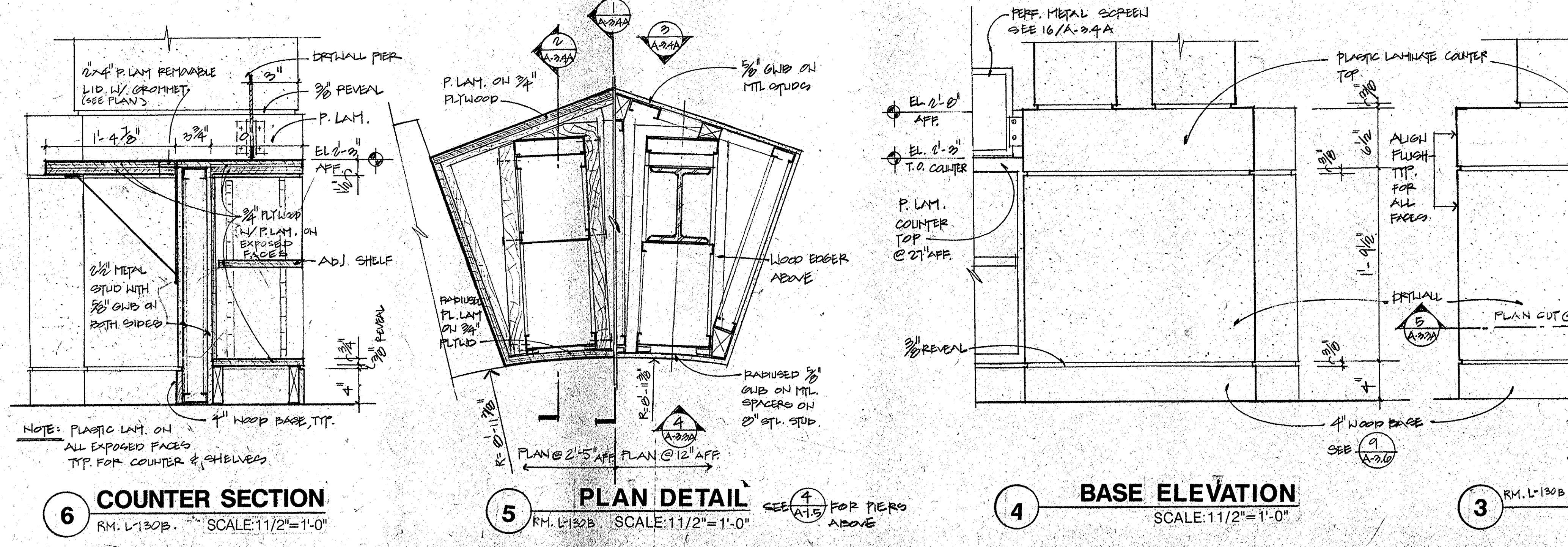
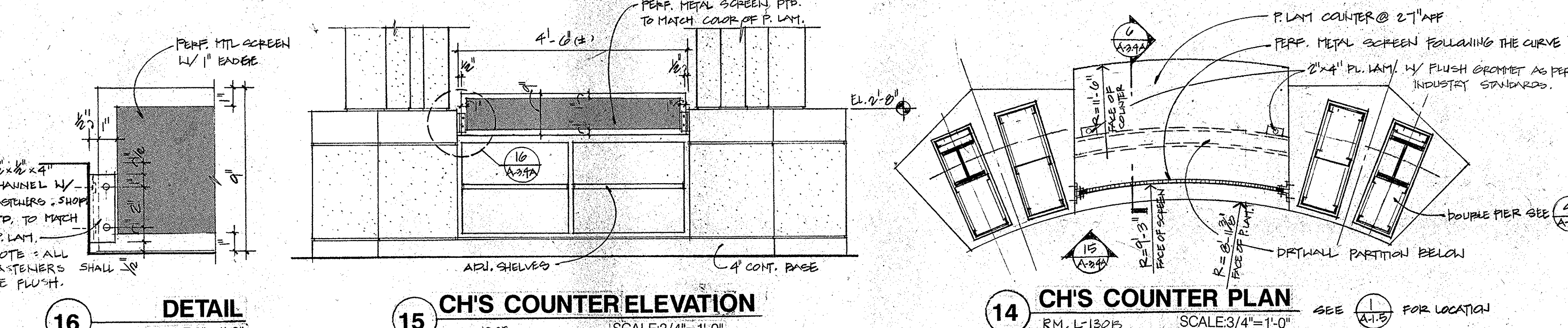
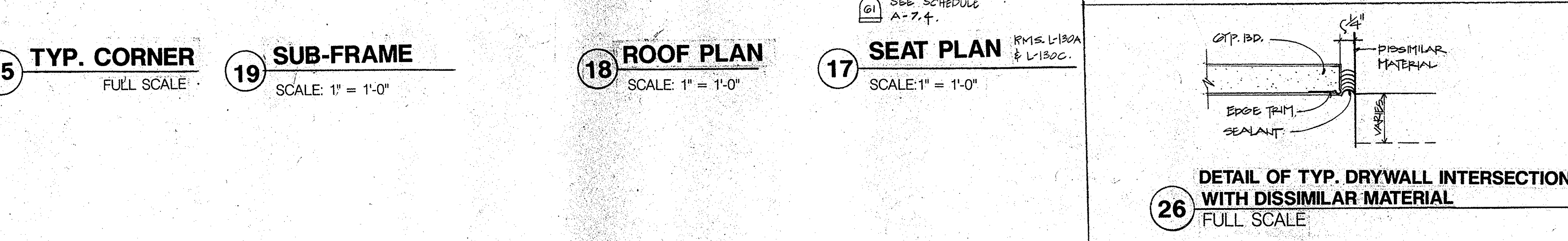
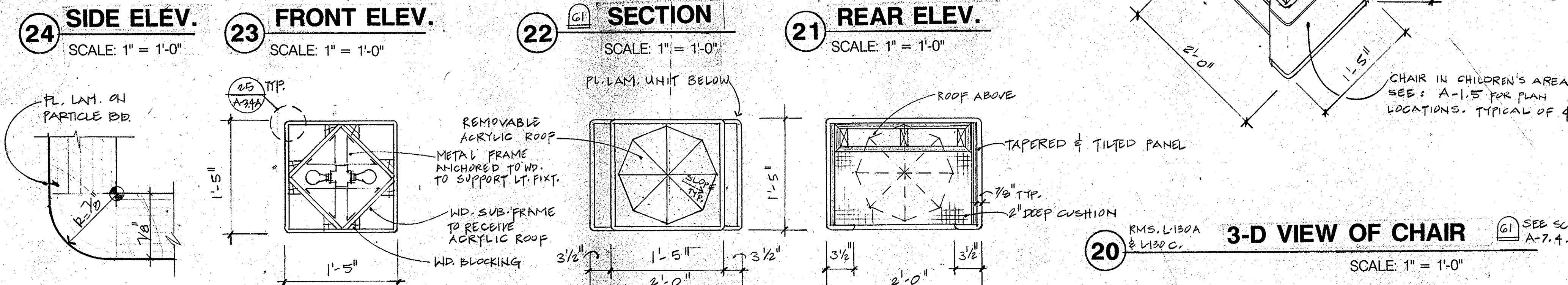
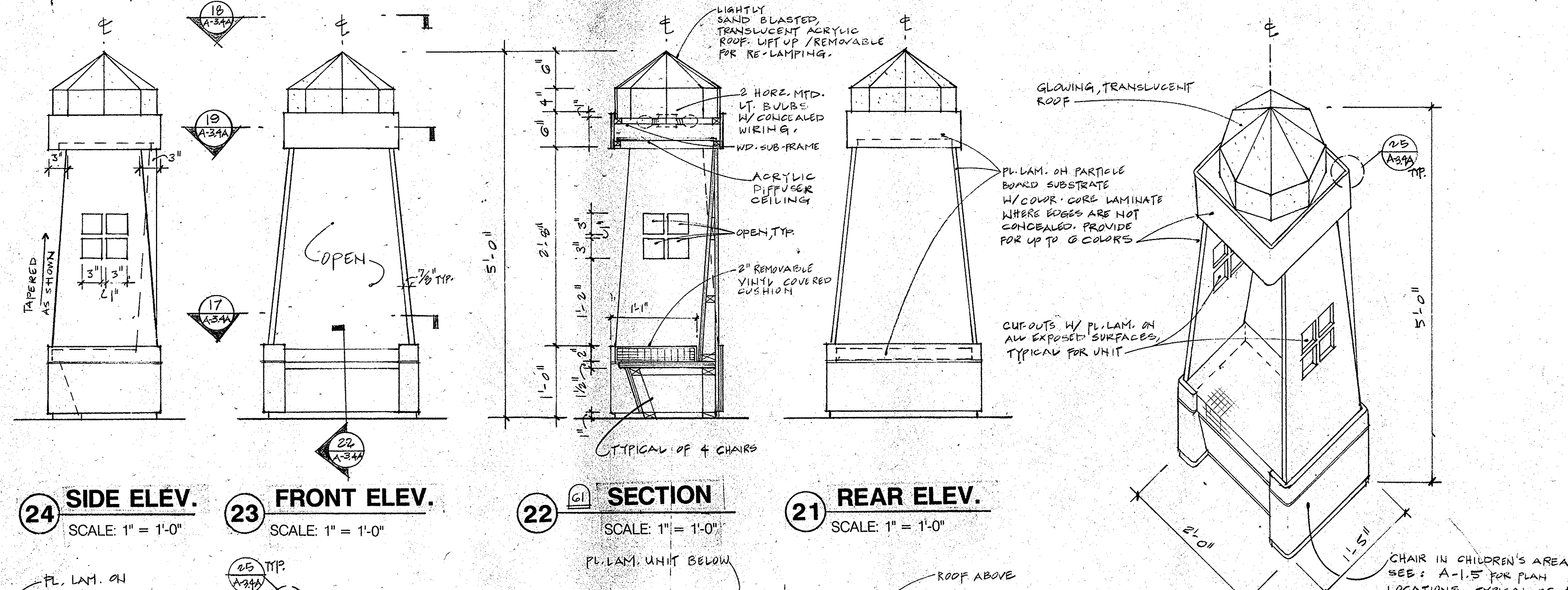
**1 ELEV - LIBRARIAN'S OFFICE**  
SCALE: 1/4" = 1'-0"

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**1/4" SECTIONS : CHILDREN'S AREA**  
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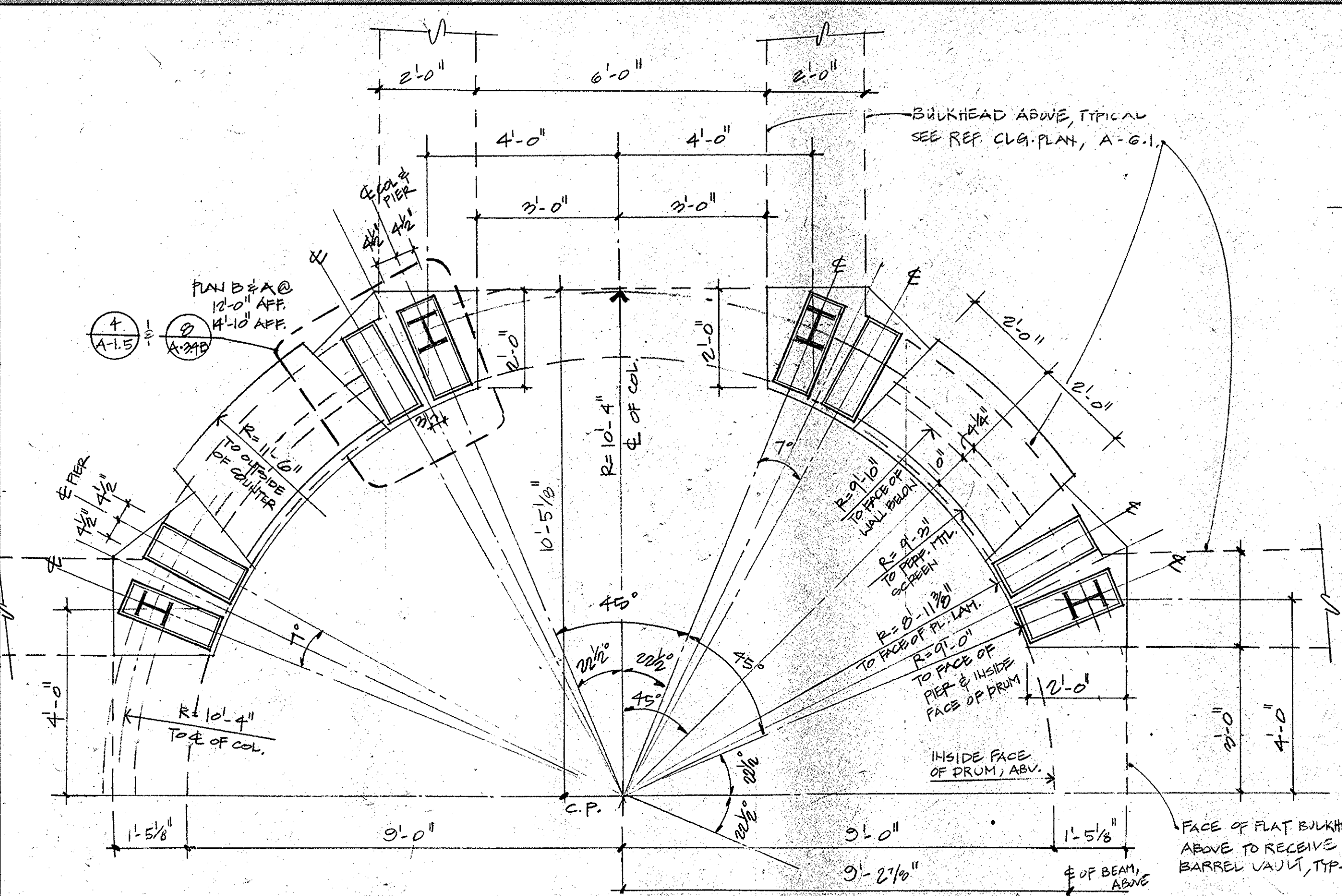
**TYPICAL NOTES**

1. SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.

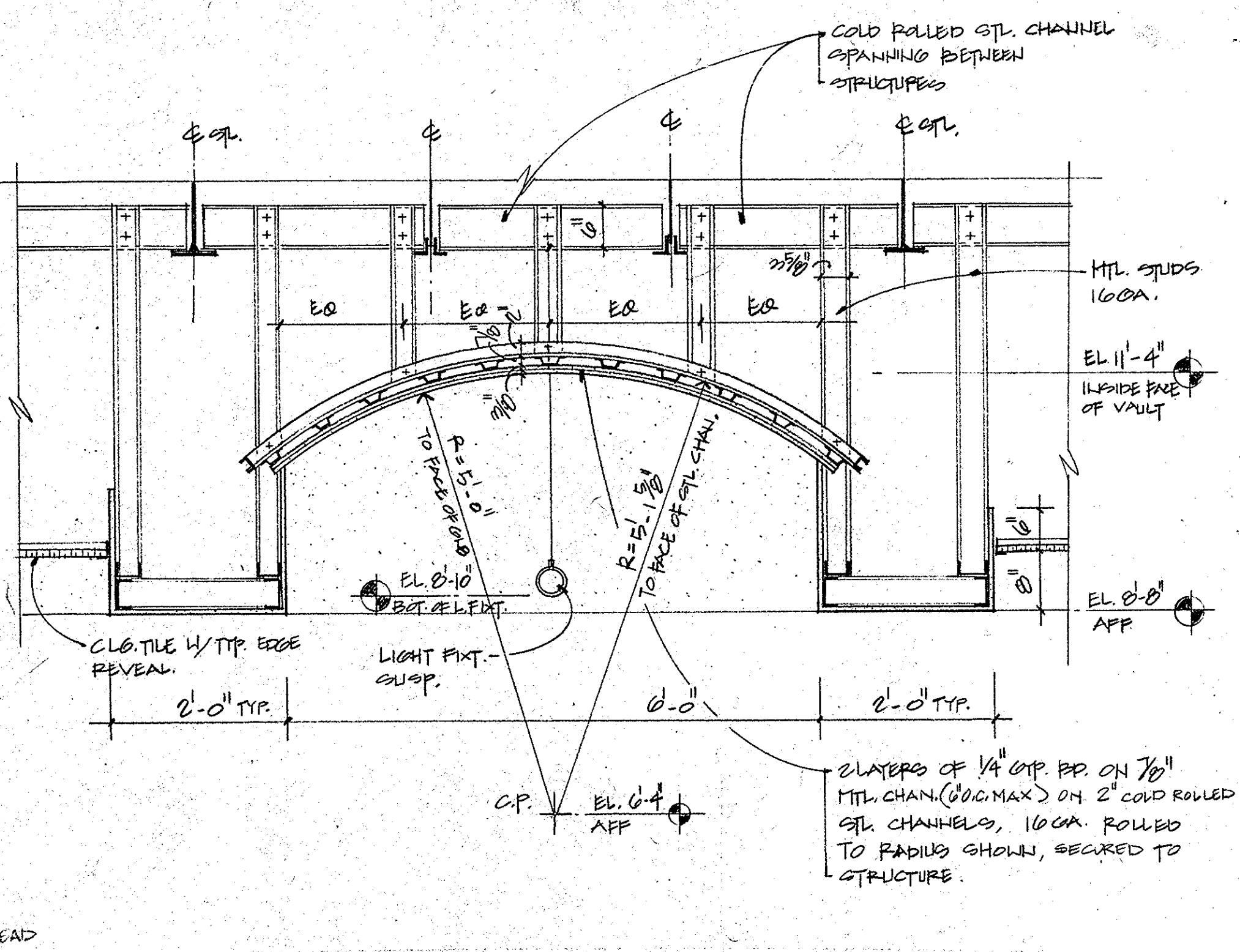


**CHILDREN'S AREA DETAILS: BASE BID**  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY, MARYLAND  
**A-3.4A**  
 BID SET  
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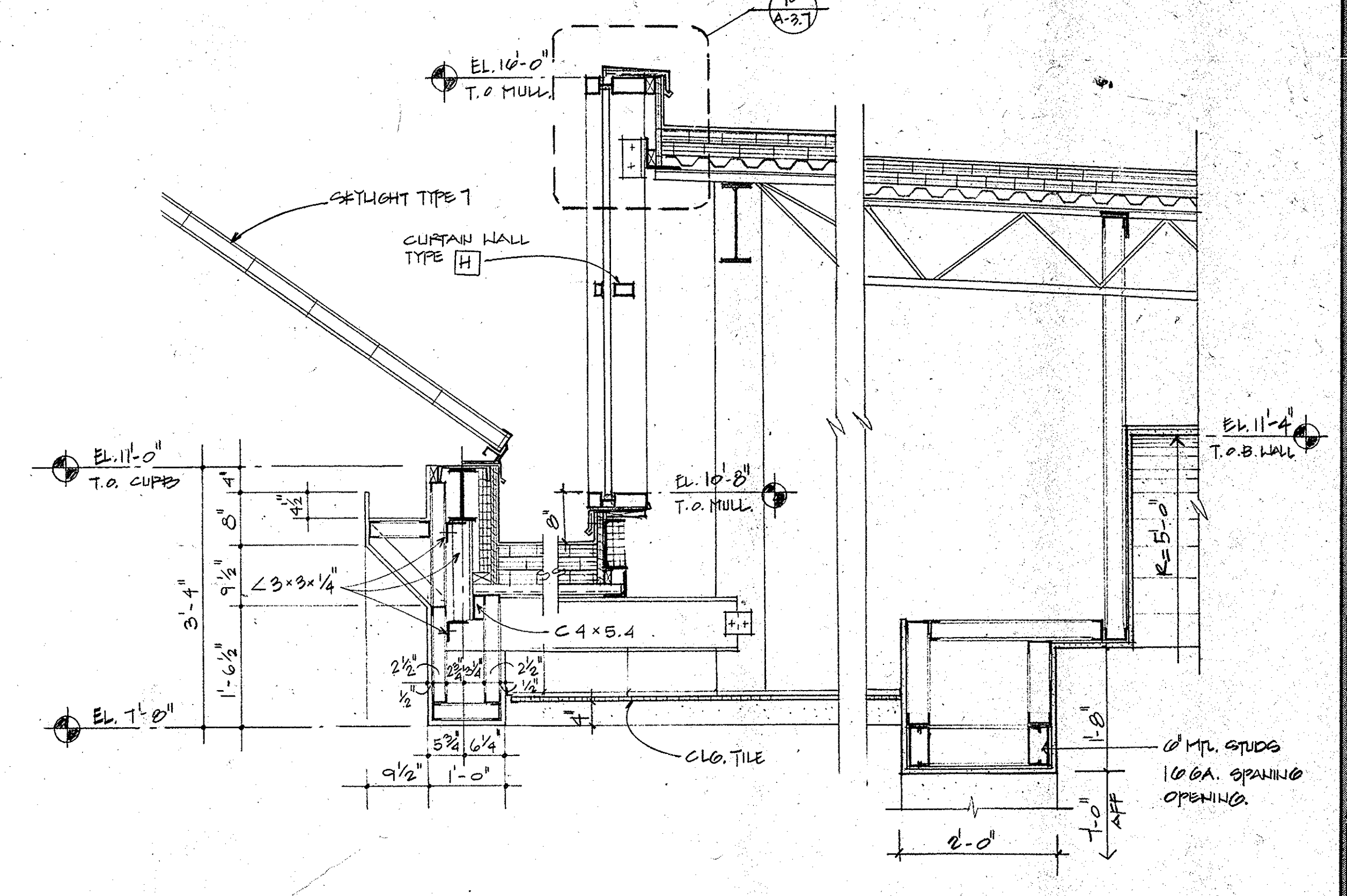
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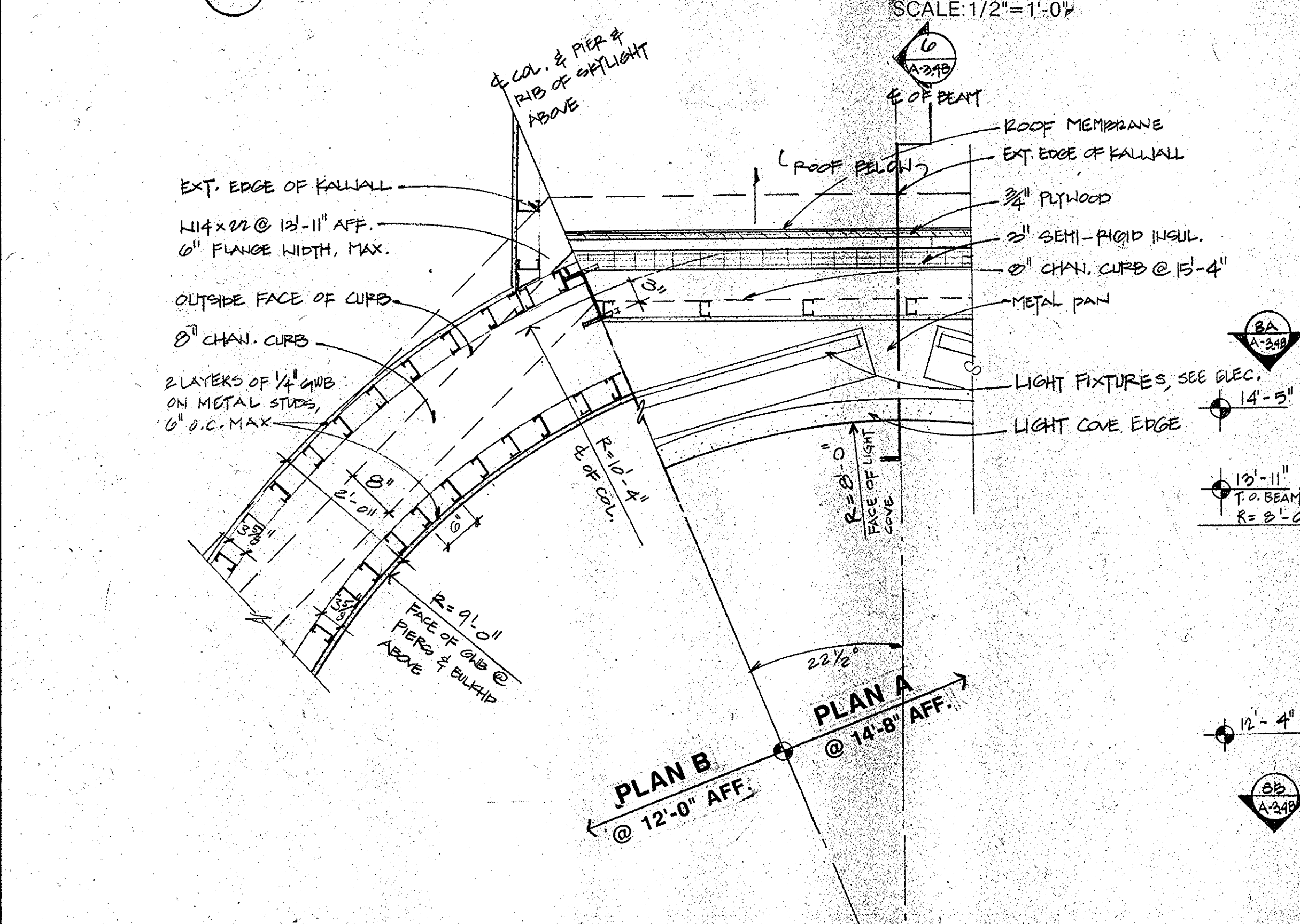
**7 PARTIAL PLAN @ CH'S AREA @ 4'-0" AFF.** SCALE: 1/2" = 1'-0" SEE 1 A-15 FOR LOCATION



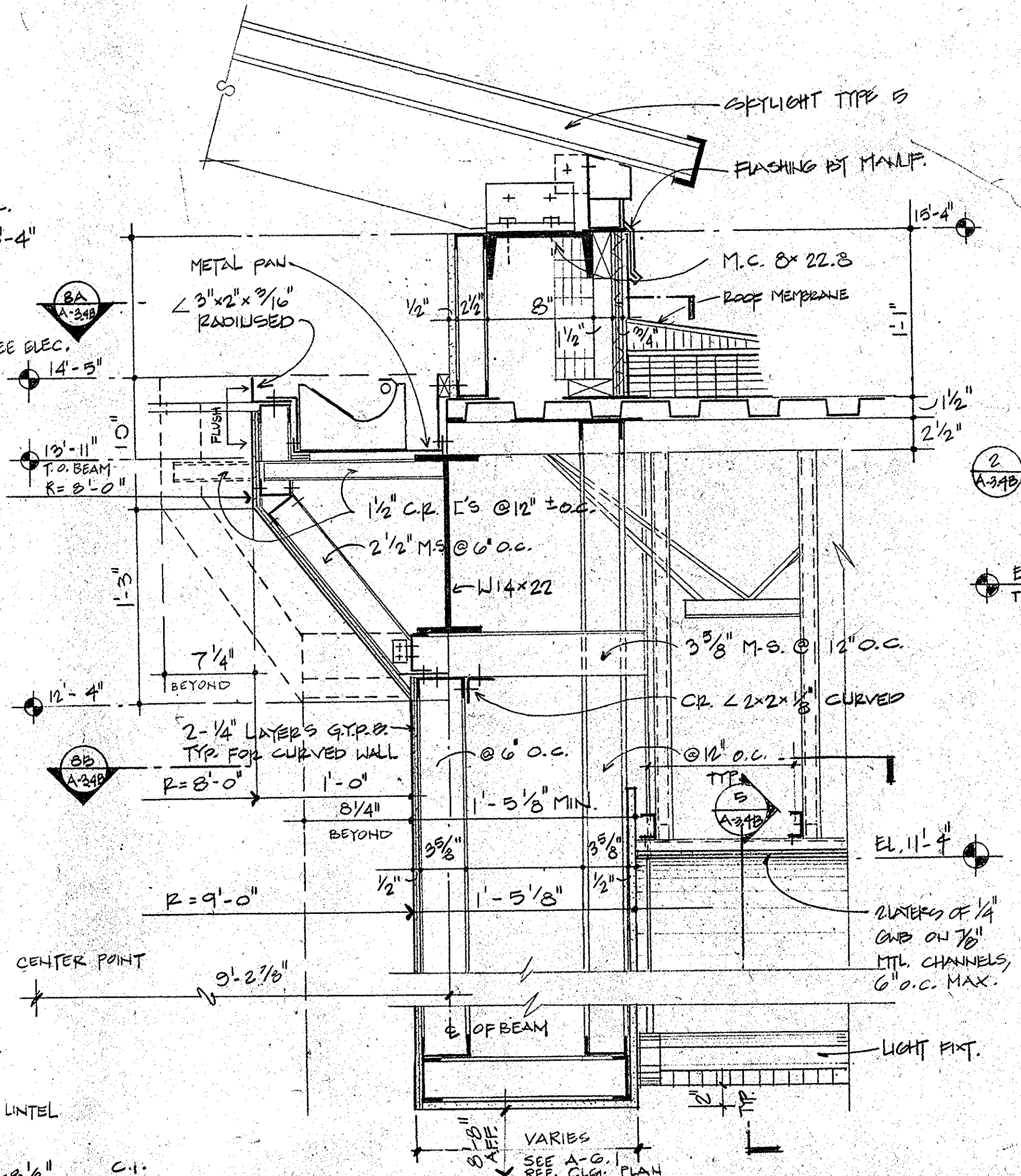
**5 TYP. BARREL VAULT DETAIL, CH'S AREA** SCALE: 3/4" = 1'-0"



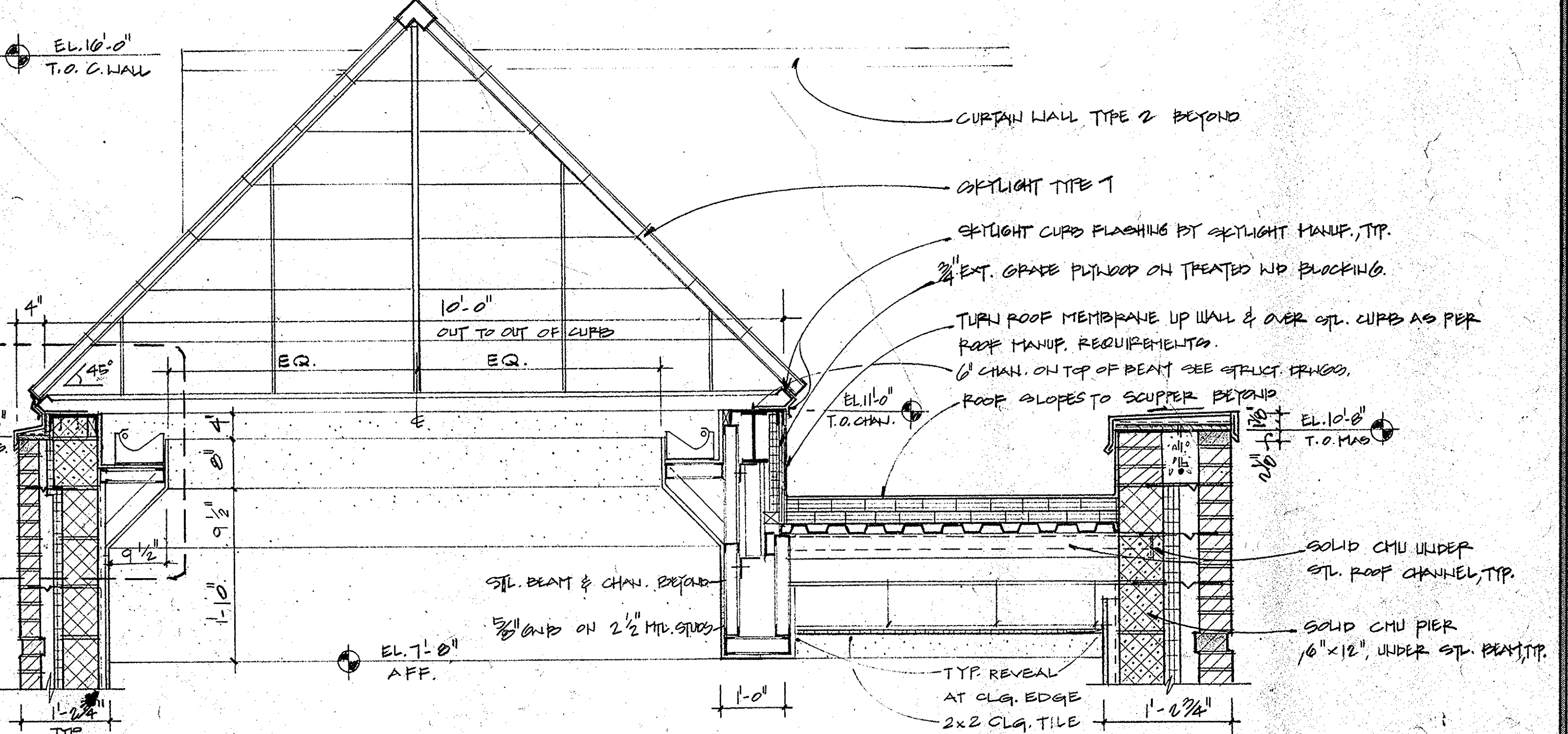
**4 SECTION THRU. CH'S AREA** SCALE: 3/4" = 1'-0"



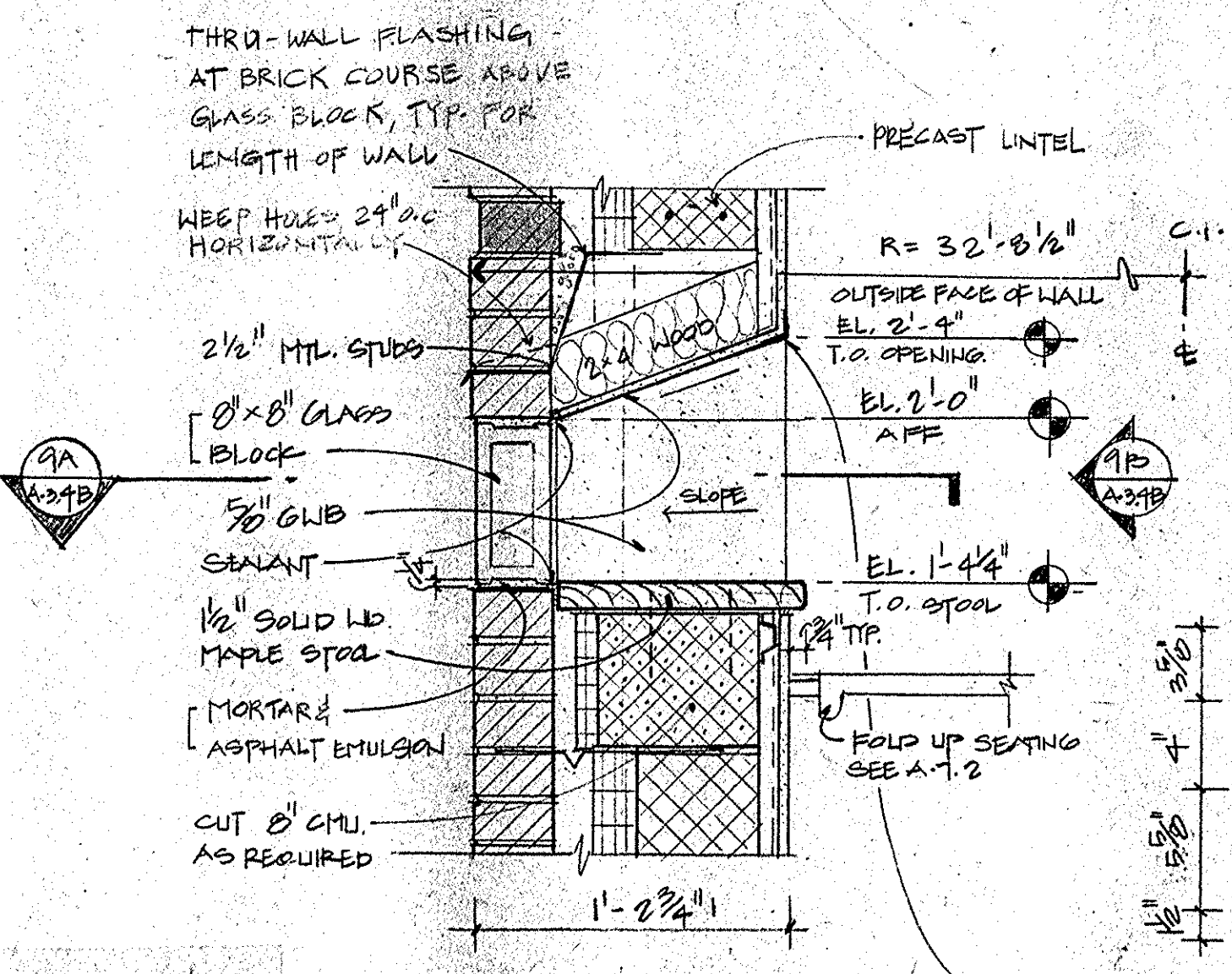
**8 PLAN DETAIL @ CH'S SKYLIGHT TYPE 5** SCALE: 3/4" = 1'-0"



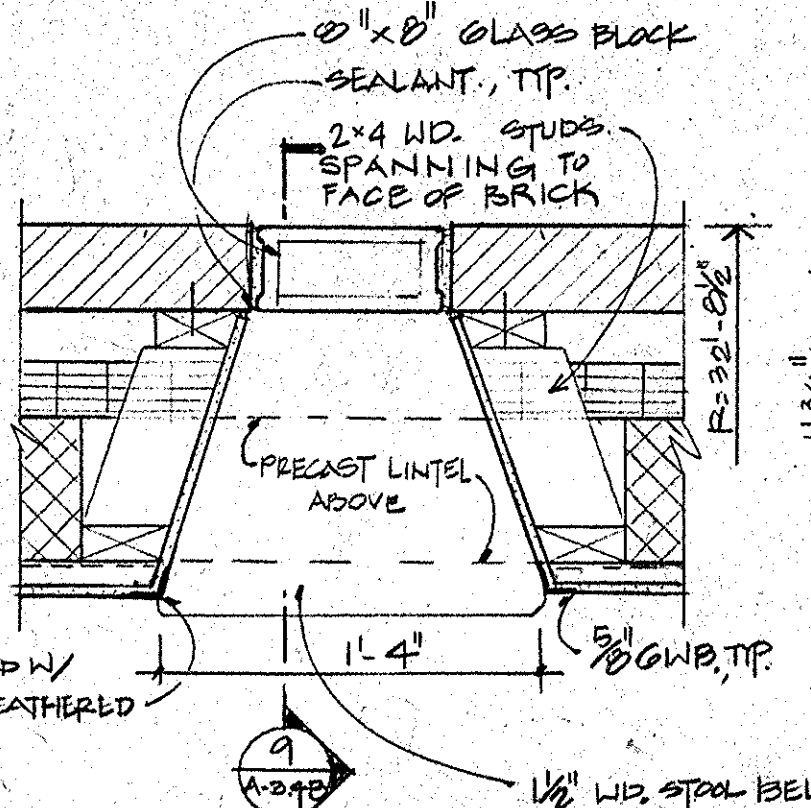
**6 CH'S INFO. SKYLIGHT TYPE 5 DETAIL** SCALE: 1 1/2" = 1'-0" SEE 1 A-348



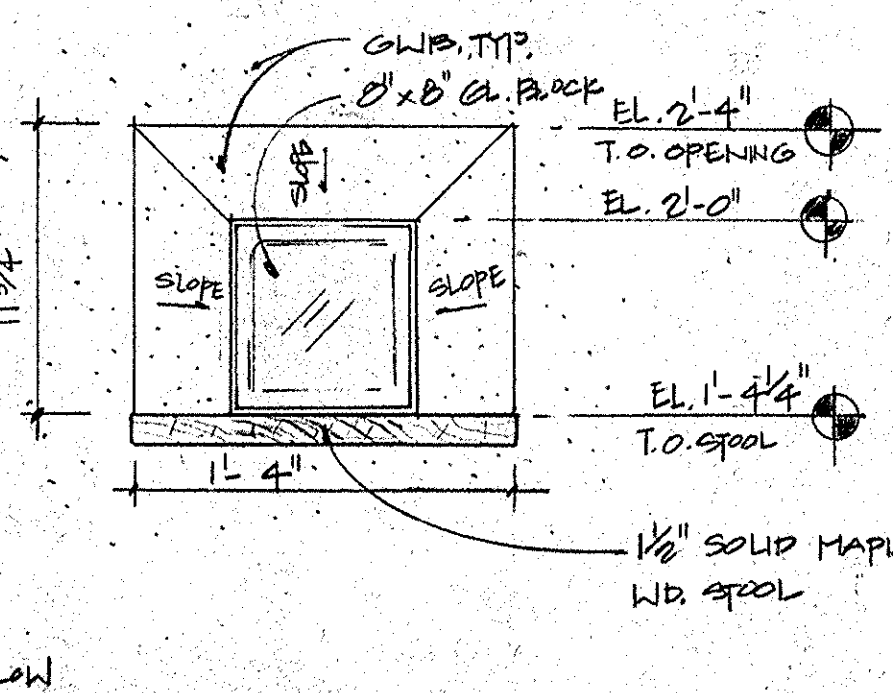
**3 SECTION THRU. RM. L129** SCALE: 3/4" = 1'-0"



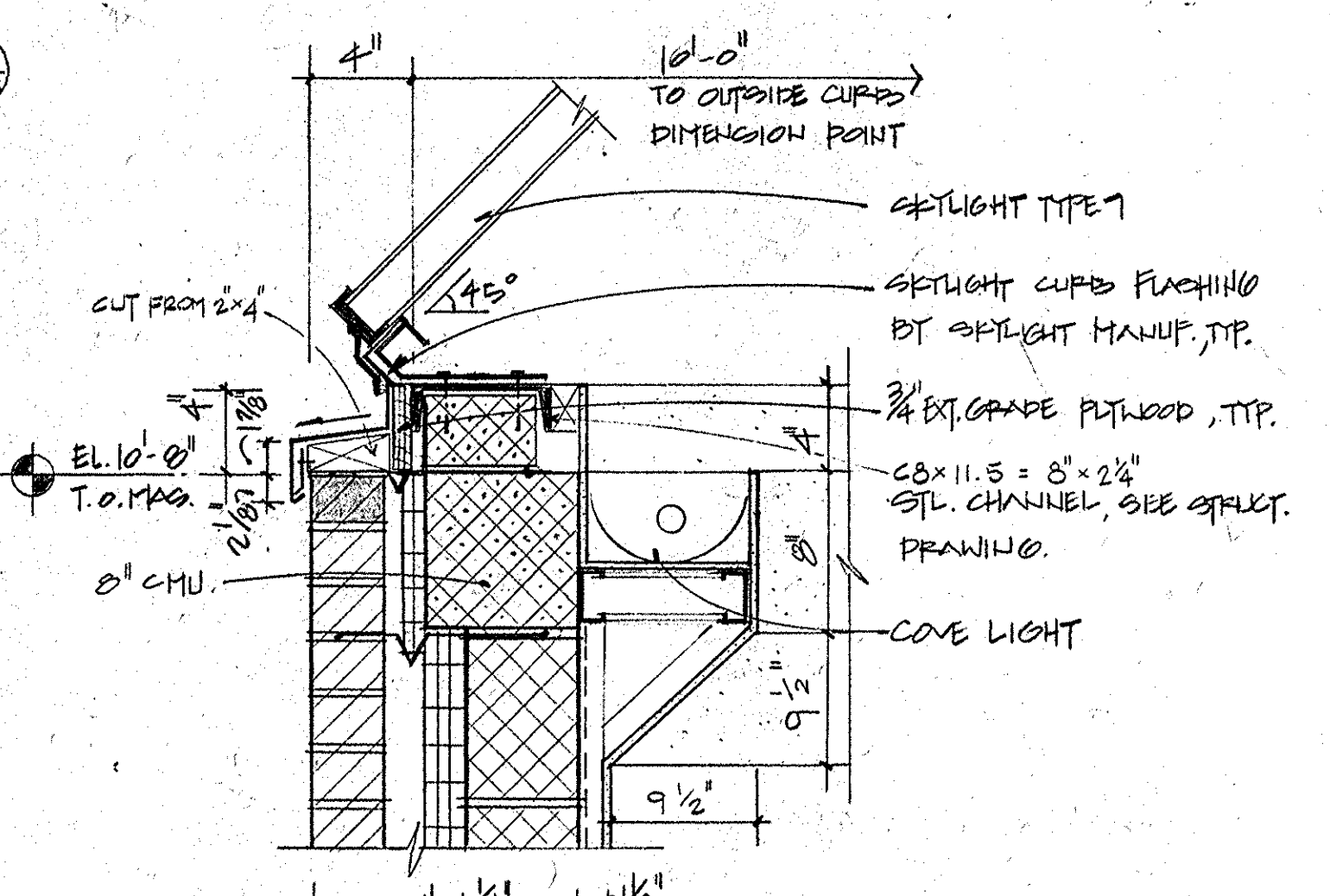
**9 GLASS BLOCK SECTION** SCALE: 1 1/2" = 1'-0"



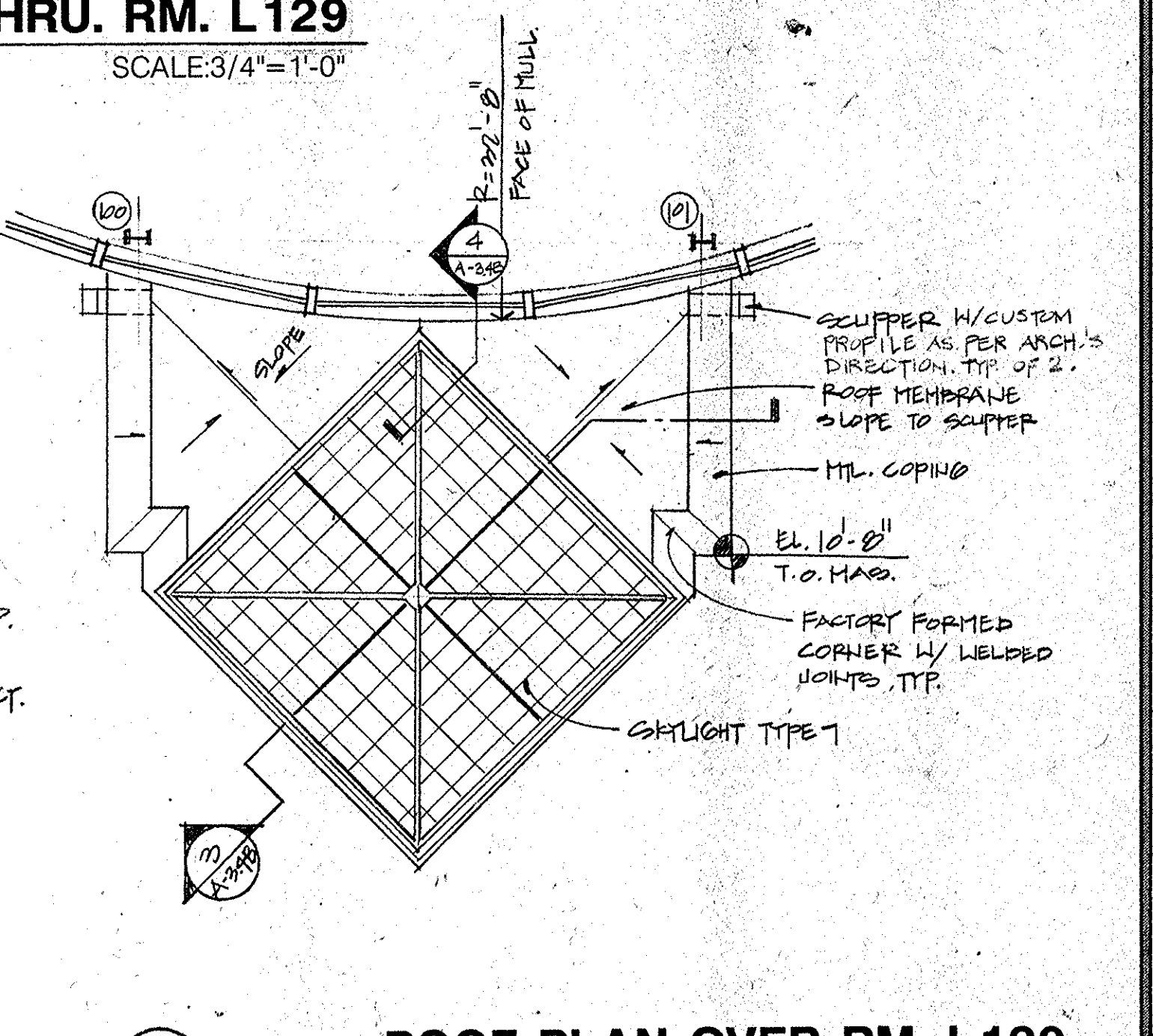
**9A GLASS BLOCK PLAN** SCALE: 1 1/2" = 1'-0"



**9B GLASS BLOCK INT. ELEV.** SCALE: 1 1/2" = 1'-0"



**2 SKYLIGHT CURB DETAIL** SCALE: 1 1/2" = 1'-0" SEE 1 A-348



**1 ROOF PLAN OVER RM. L129** SCALE: 1/4" = 1'-0"

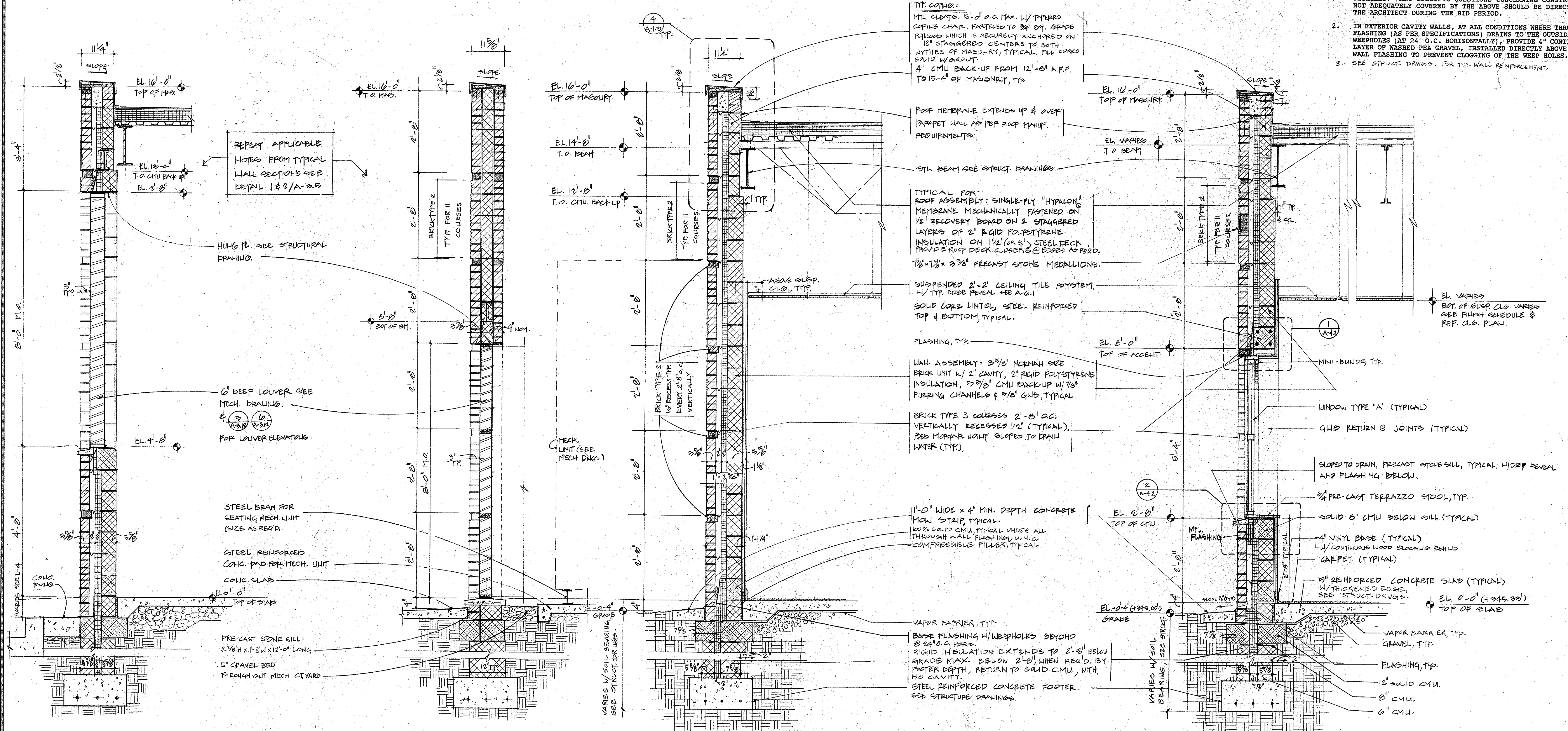
**TYPICAL NOTES**

- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
- IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED PEA GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.

NOTE: SEE 6 FOR LOCATIONS OF GLASS BLOCKS

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- TYPICAL NOTES**
- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
  - IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED PEA GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.
  - SEE STRUCT. DRAWINGS FOR TYP. WALL REINFORCEMENT.

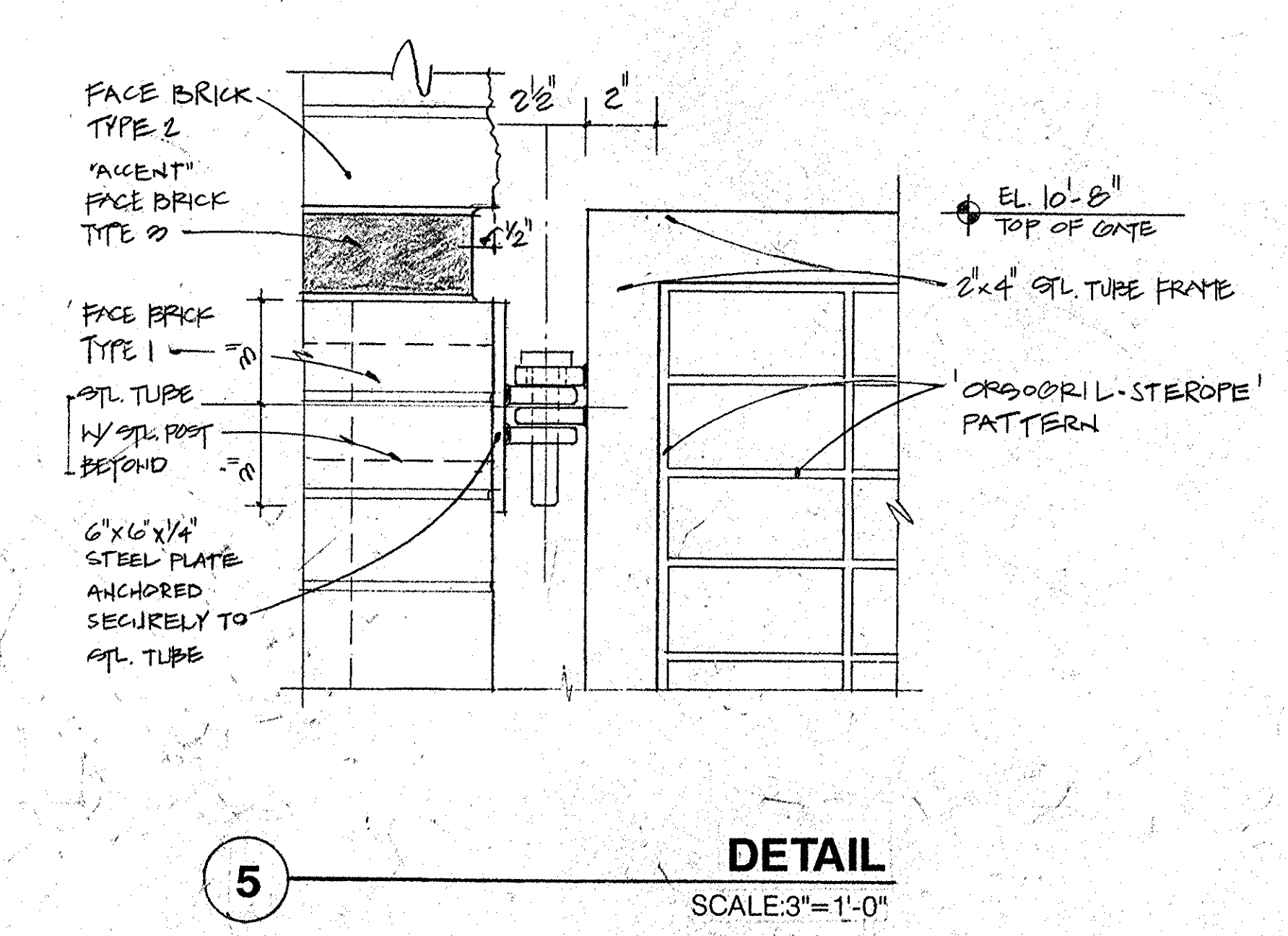


**4 MECH. RM. WALL**  
SCALE: 3/4" = 1'-0"

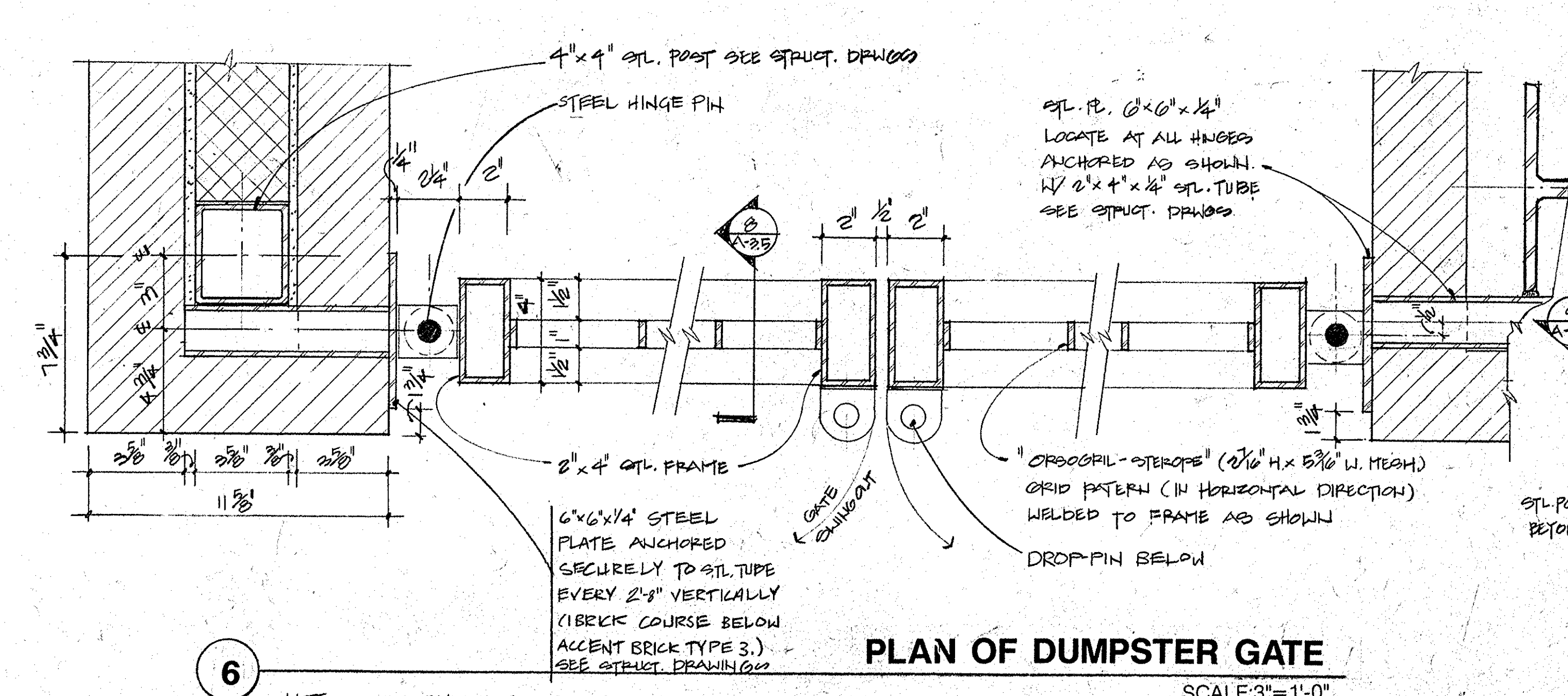
**3 COURTYARD WALL**  
SCALE: 3/4" = 1'-0"

**2 TYPICAL MASONRY WALL**  
REPEAT APPLICABLE NOTES FROM 1/A-3.5  
SCALE: 3/4" = 1'-0"

**1 TYPICAL MASONRY WALL @ WINDOW**  
REPEAT APPLICABLE NOTES FROM 2/A-3.5  
SCALE: 3/4" = 1'-0"

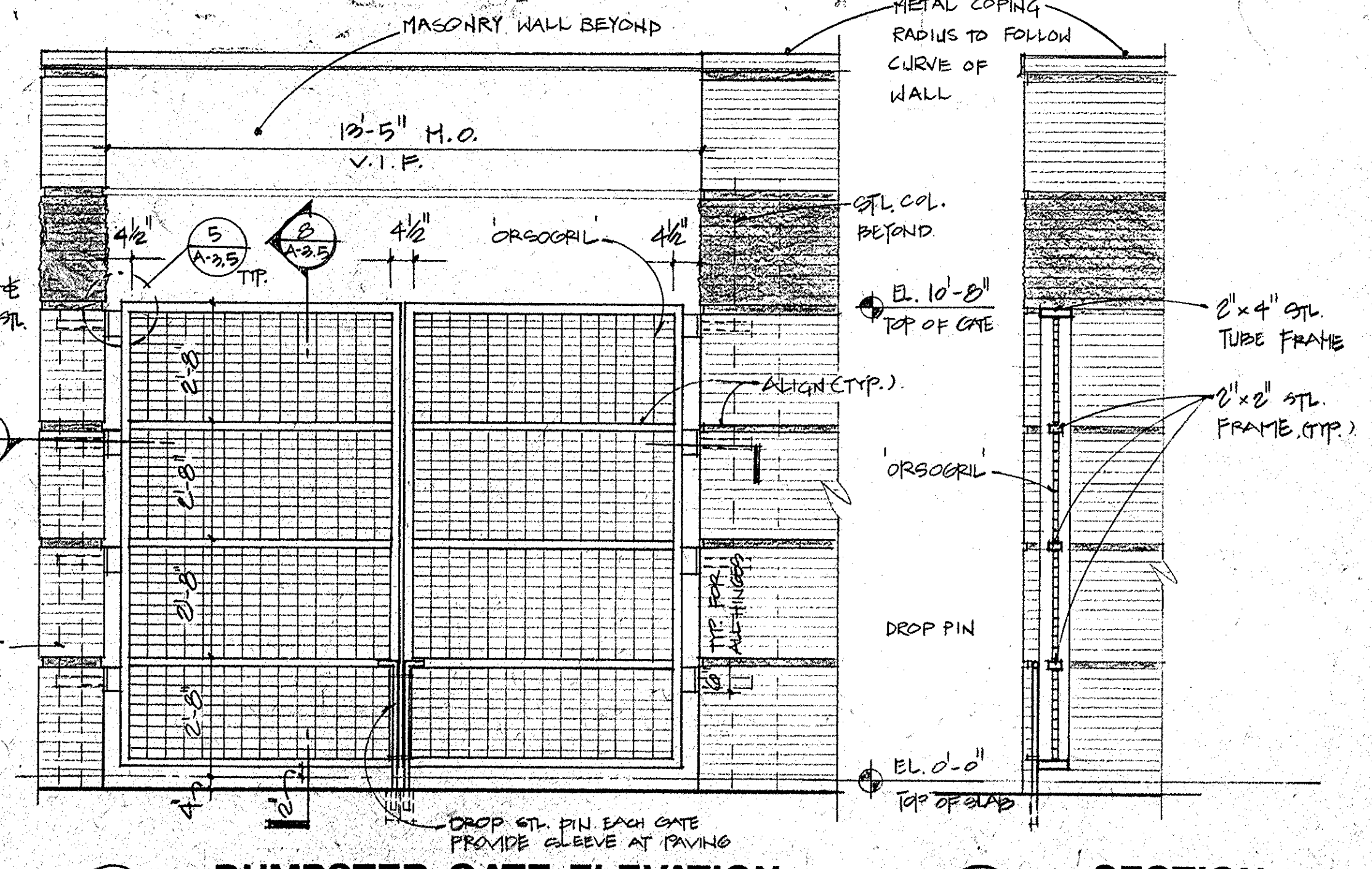


**5 DETAIL**  
SCALE: 3" = 1'-0"



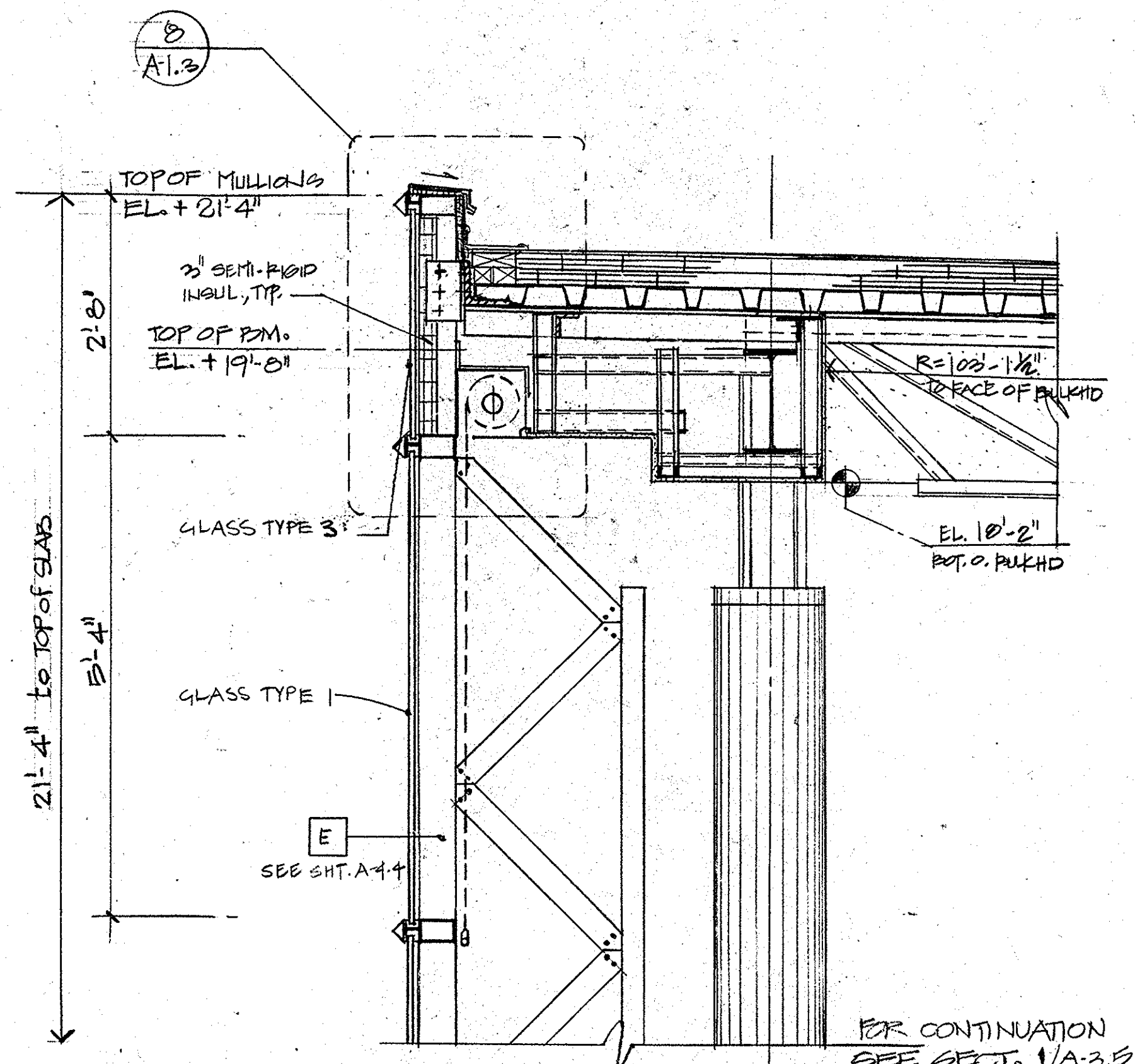
**6 PLAN OF DUMPSTER GATE**  
SCALE: 3" = 1'-0"

- NOTE:**
- ASSEMBLE STL. TUBE FRAME W/ HITCHED, CONTINUOUSLY WELDED CORNERS.
  - ALL WELDS TO BE GRIND SMOOTH.
  - ALL STL. TO BE HOT DIP GALVANIZED AFTER ASSEMBLY THEN FACTORY PRIMED.

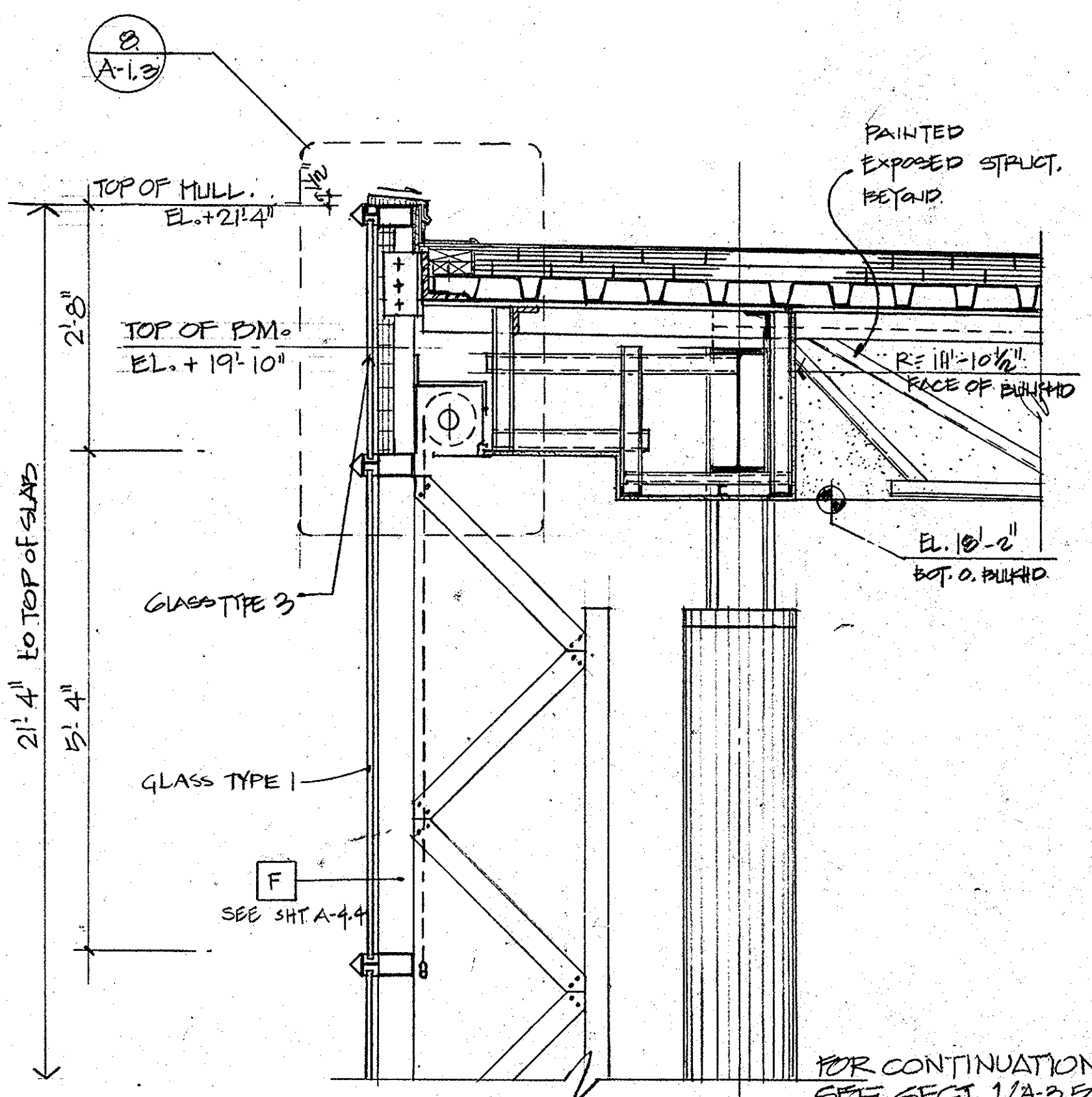


**7 DUMPSTER GATE ELEVATION**  
SCALE: 3/8" = 1'-0"

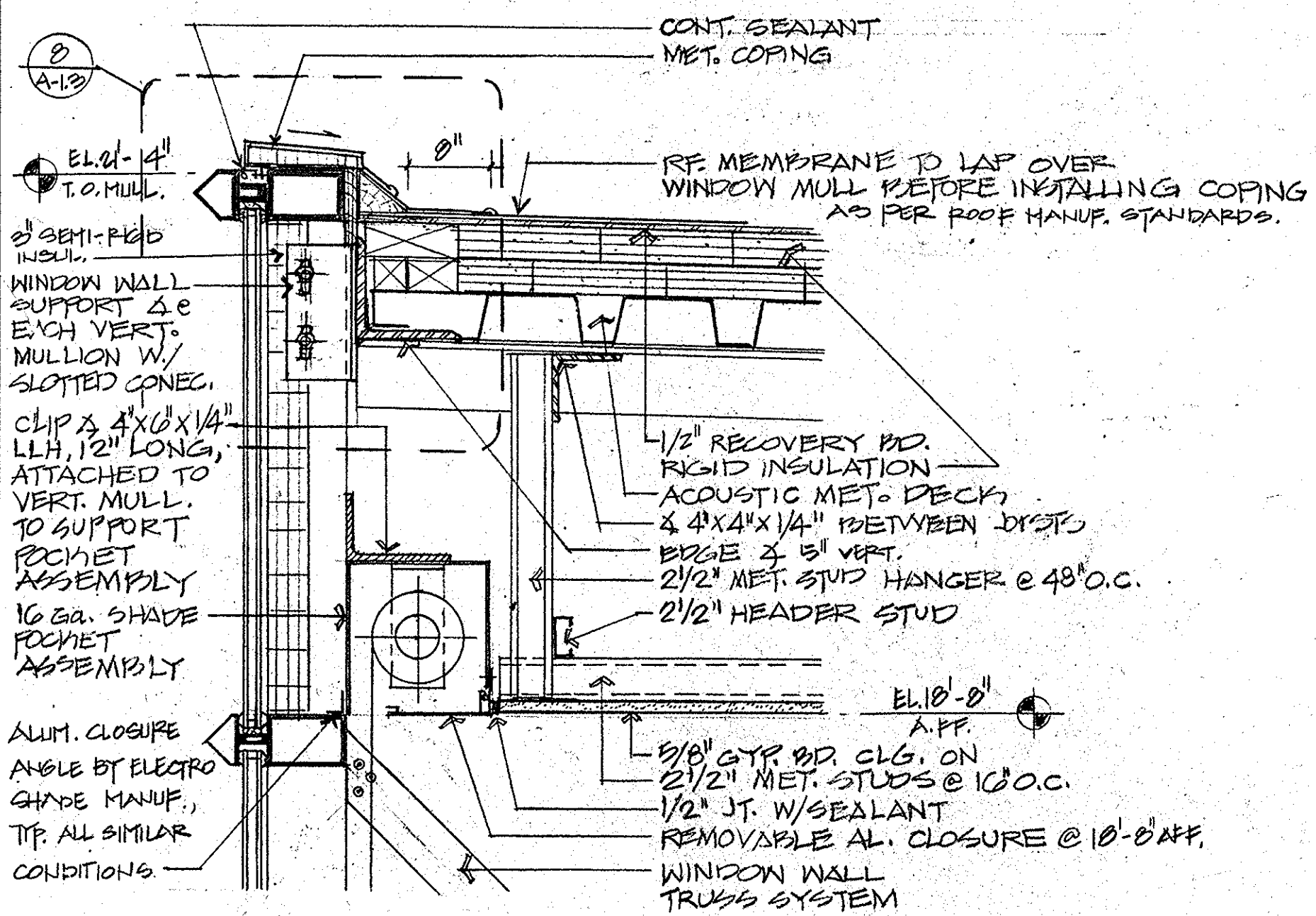
**8 SECTION**  
SCALE: 3/8" = 1'-0"



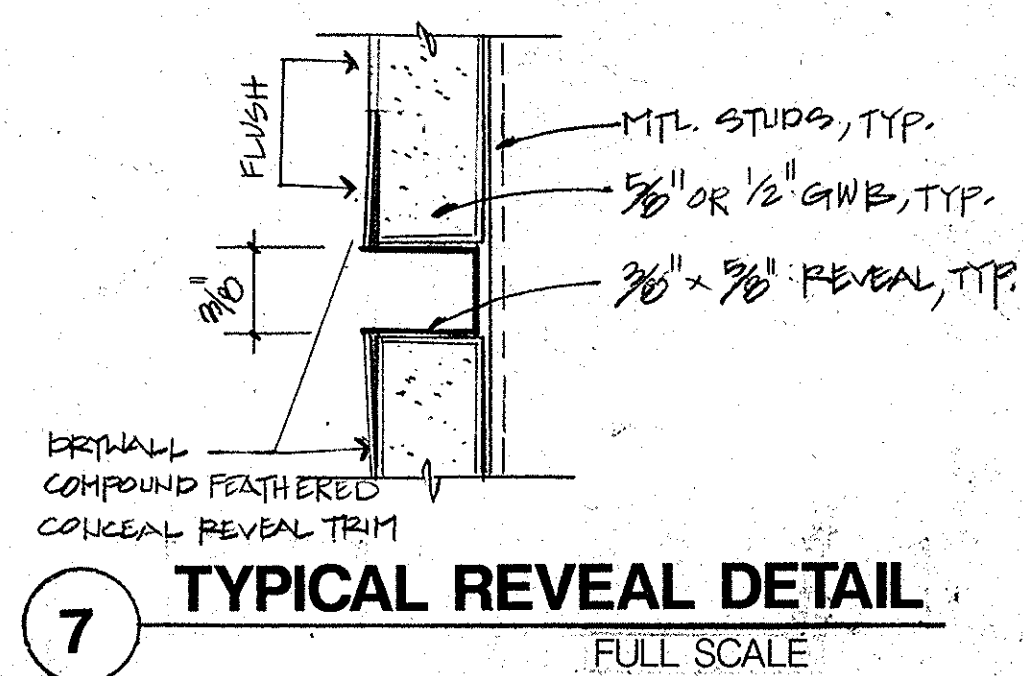
**3 PARTIAL WALL SECTION : AREA III**  
REPEAT APPLICABLE NOTES FROM SECT. 1/A-3.5 SCALE: 3/4" = 1'-0"



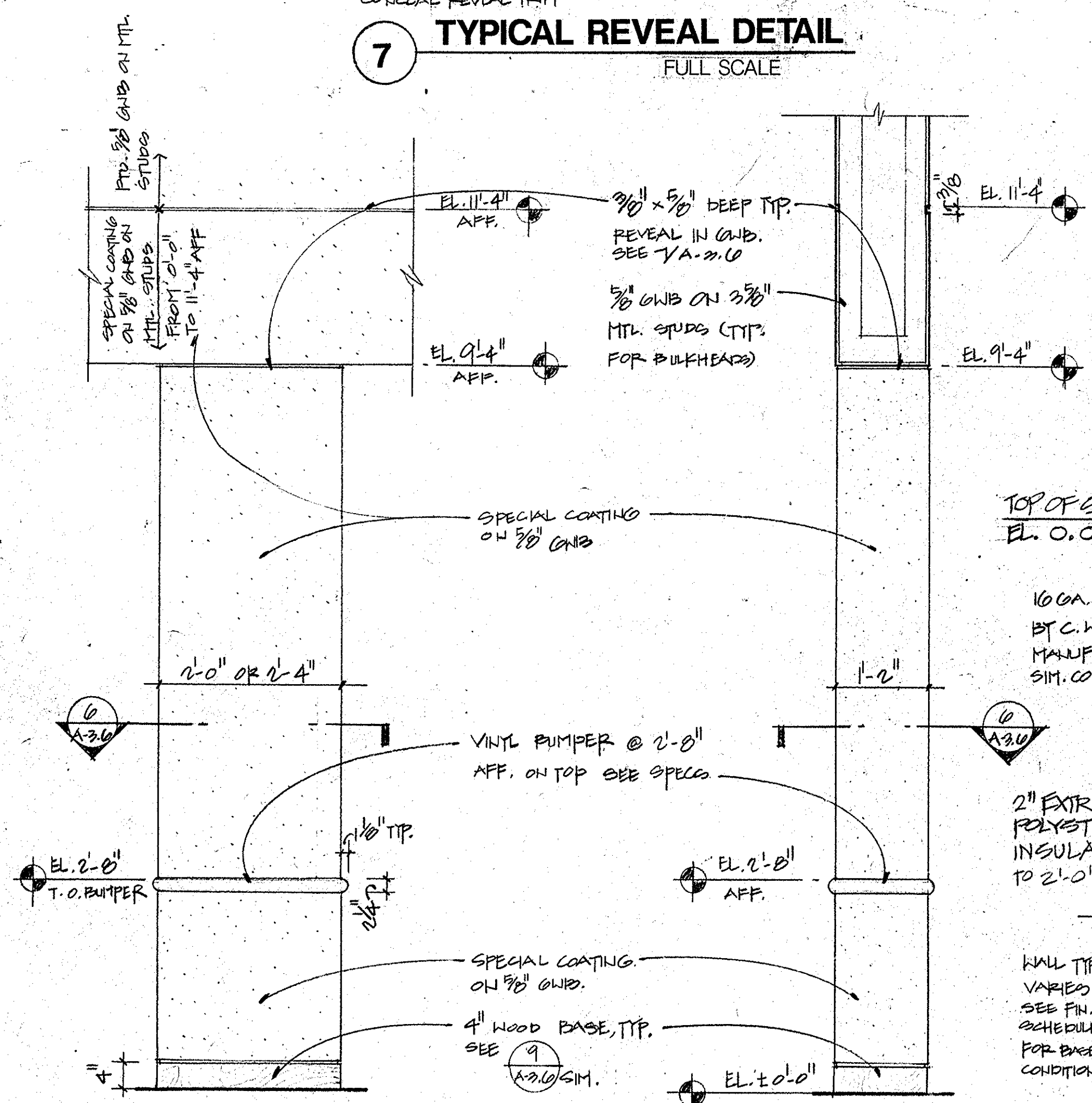
**2 PARTIAL WALL SECTION : AREA II**  
REPEAT APPLICABLE NOTES FROM SECT. 1/A-3.5 SCALE: 3/4" = 1'-0"



**8 CURTAIN WALL DETAIL**  
SCALE: 1 1/2" = 1'-0"

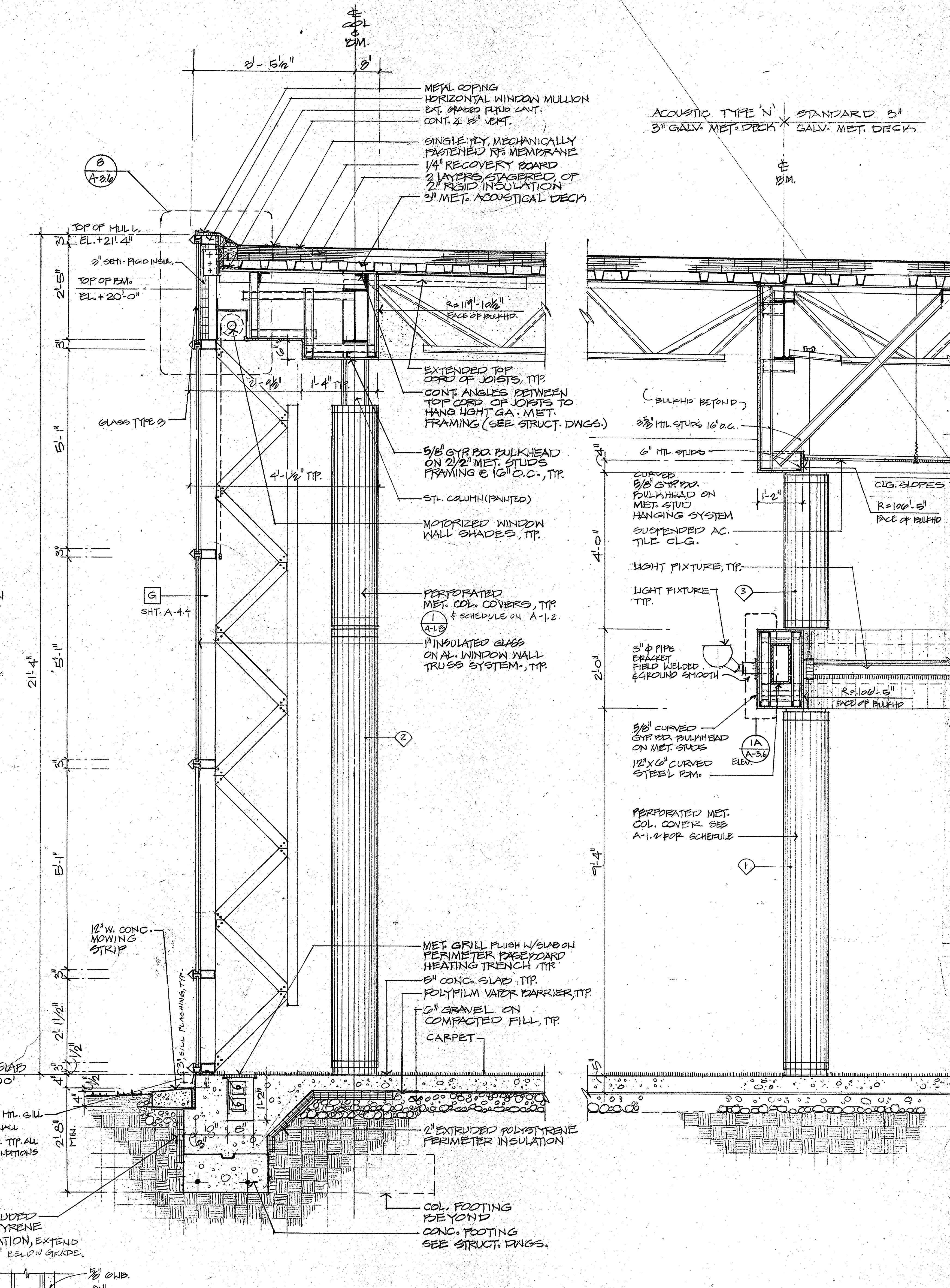


**7 TYPICAL REVEAL DETAIL**  
FULL SCALE



**5 TYPICAL GWB. PIER ELEVATION**  
SCALE: 3/4" = 1'-0"

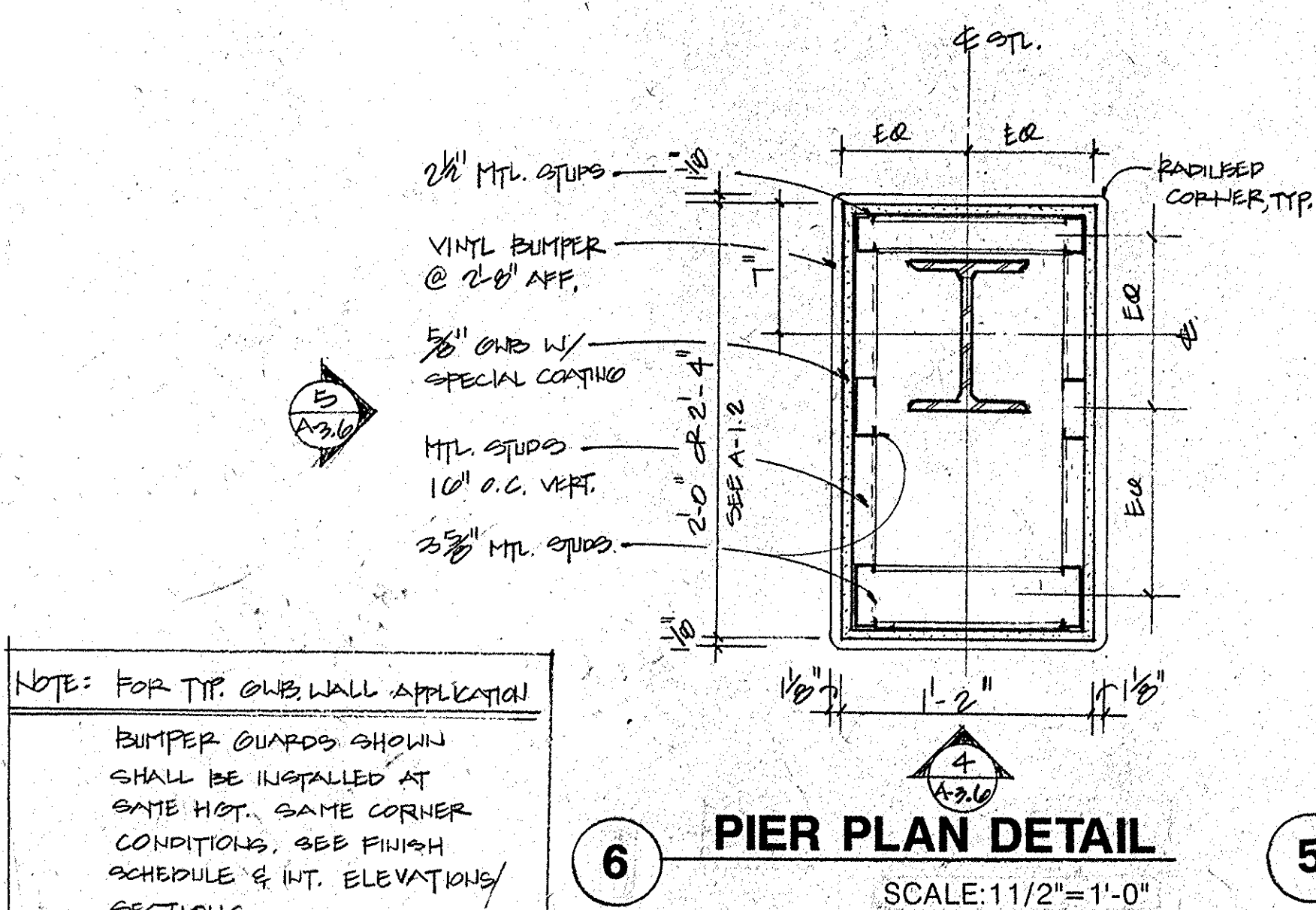
**4 TYPICAL GWB. PIER ELEVATION**  
SCALE: 3/4" = 1'-0"



**1 WALL SECTION @ GLASS CURTAIN WALL : AREA I**  
SCALE: 3/4" = 1'-0" FOR CURTAIN WALL TYPE I, SEE: A-4.4

- TYPICAL NOTES**
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  - IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY) PROVIDE 4" CONTINUOUS LAYER OF WASHED PER GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.

**1A ELEVATION @ MOUNTING BRACKET**  
SCALE: 3" = 1'-0" SEE STRUCT. DRNGS.

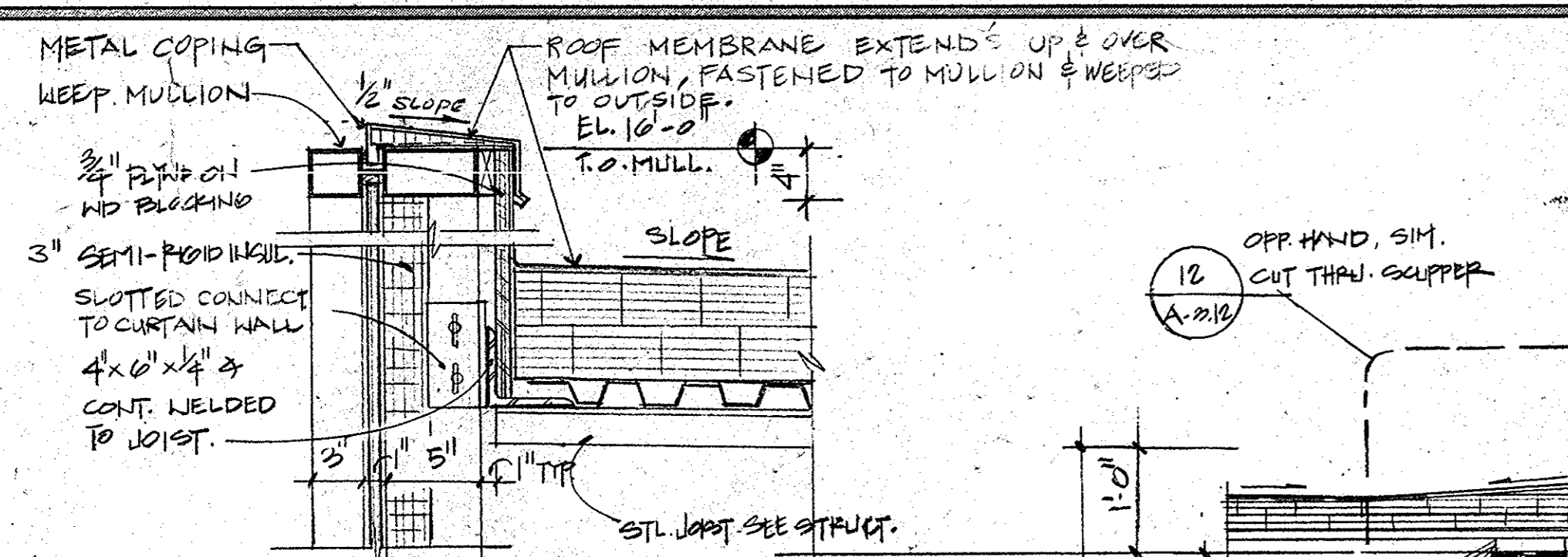


**6 PIER PLAN DETAIL**  
SCALE: 1 1/2" = 1'-0"

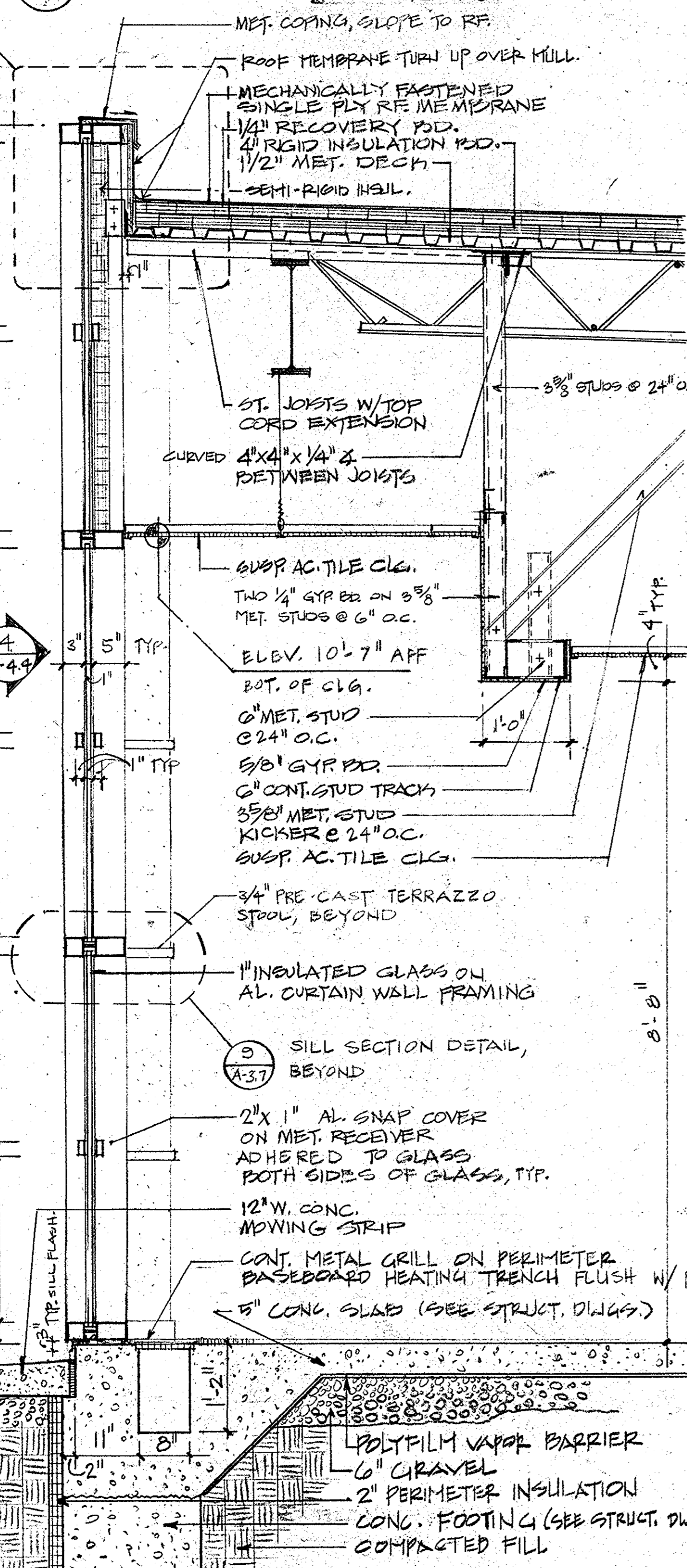
**9 WOOD BASE DETAIL**  
SCALE: 3" = 1'-0"

NOTE: FOR TYP. GWB WALL APPLICATION  
BUMPER CAPS SHOWN SHALL BE INSTALLED AT SAME HOR. SAME CORNER CONDITIONS. SEE FINISH SCHEDULE & INT. ELEVATIONS/SECTIONS.

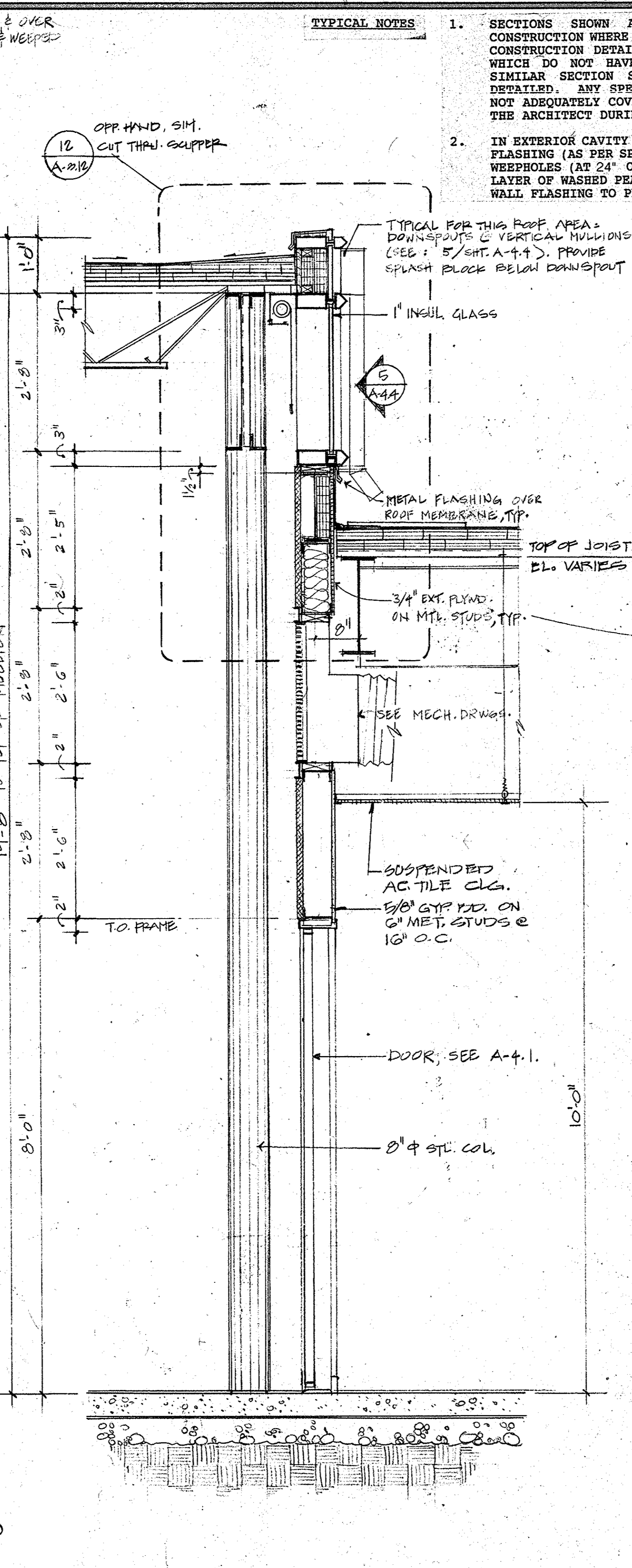
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**CURTAIN WALL TYPE I SECTIONS & DETAILS**  
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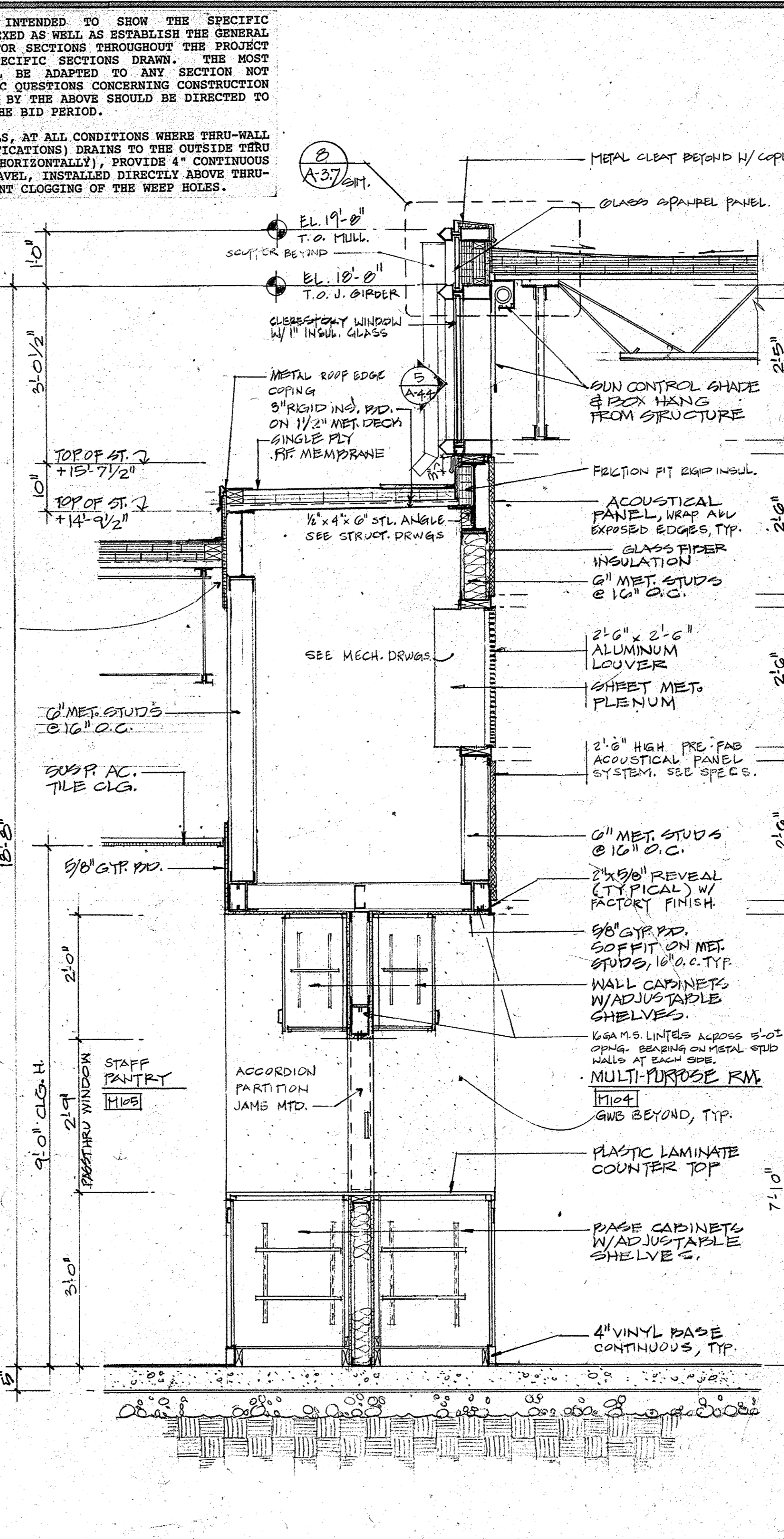
**C. WALL DETAIL**  
SCALE: 1 1/2" = 1'-0"



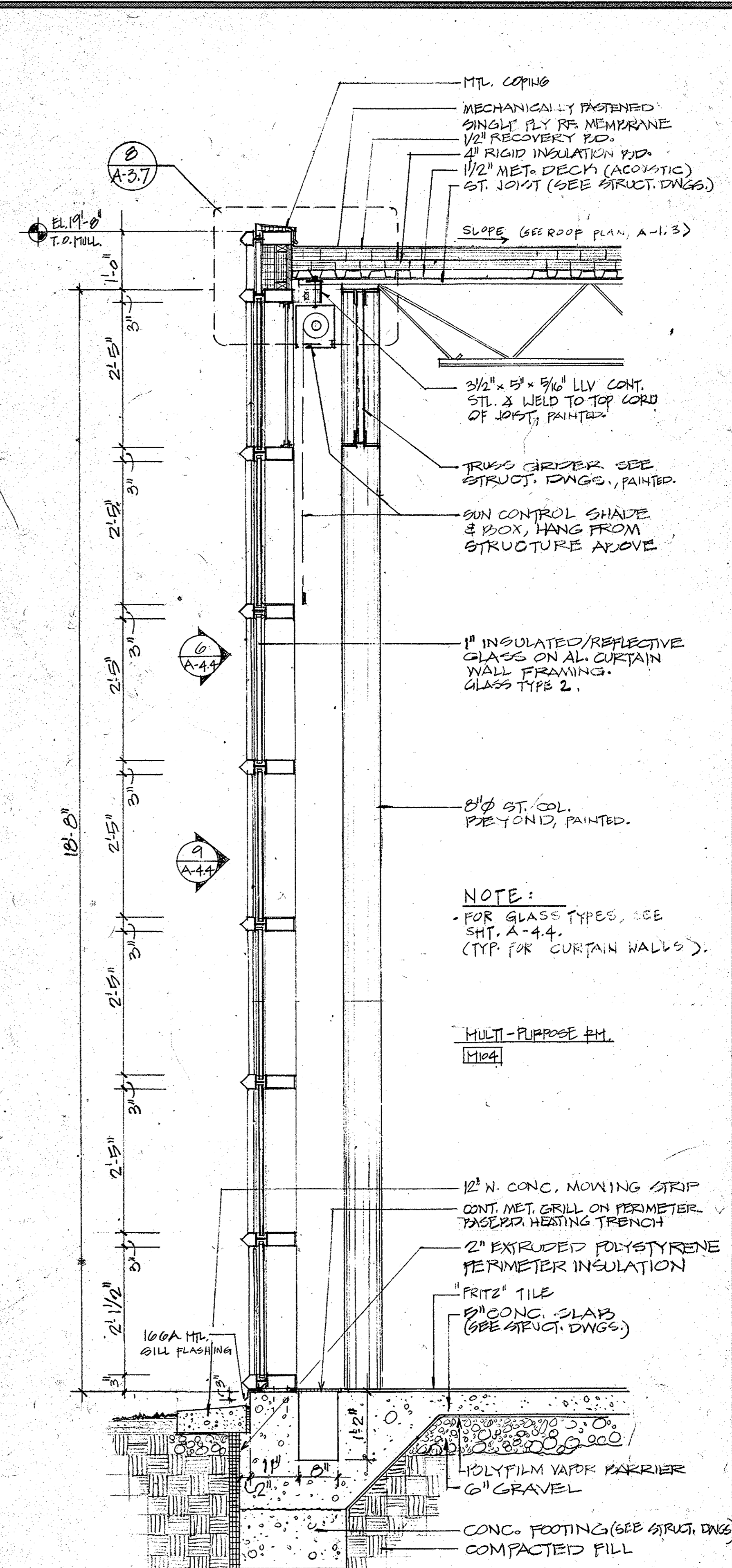
**SECTION - CURTAIN WALL TYPE II**  
REPEAT APPLICABLE NOTES FROM SECT. 1  
SCALE: 3/4" = 1'-0"



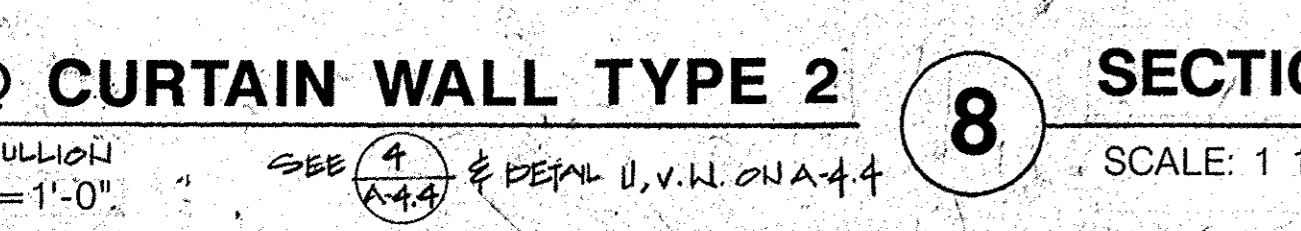
**WALL SECTION - MULTI-PURPOSE ROOM**  
REPEAT APPLICABLE NOTES FROM SECT. 1 & 2  
SCALE: 3/4" = 1'-0"



**WALL SECT. - MULTI-PURPOSE RM.**  
REPEAT APPLICABLE NOTES FROM SECT. 1  
SCALE: 3/4" = 1'-0"



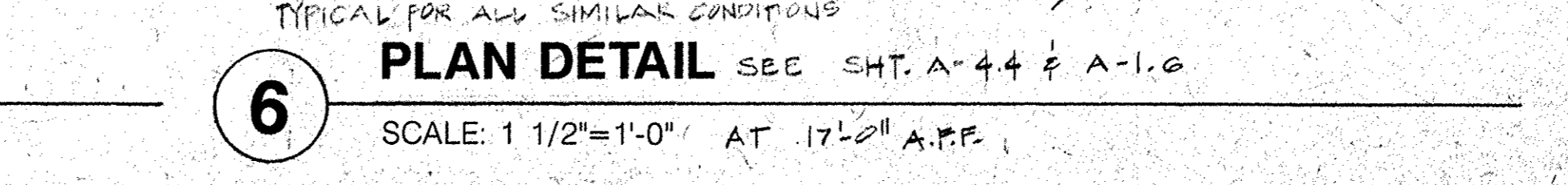
**SECTION - CURTAIN WALL TYPE III**  
SCALE: 3/4" = 1'-0"



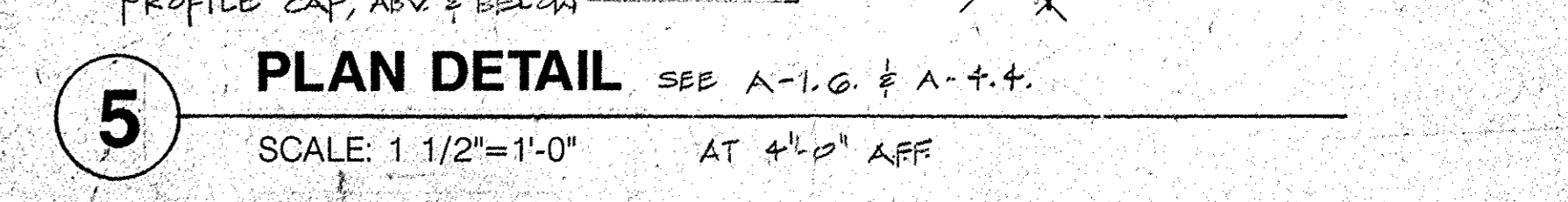
**SILL @ CURTAIN WALL TYPE 2**  
SCALE: 3" = 1'-0"



**SECTION DETAIL**  
SCALE: 1 1/2" = 1'-0"



**SECTION DETAIL**  
SCALE: 1 1/2" = 1'-0"

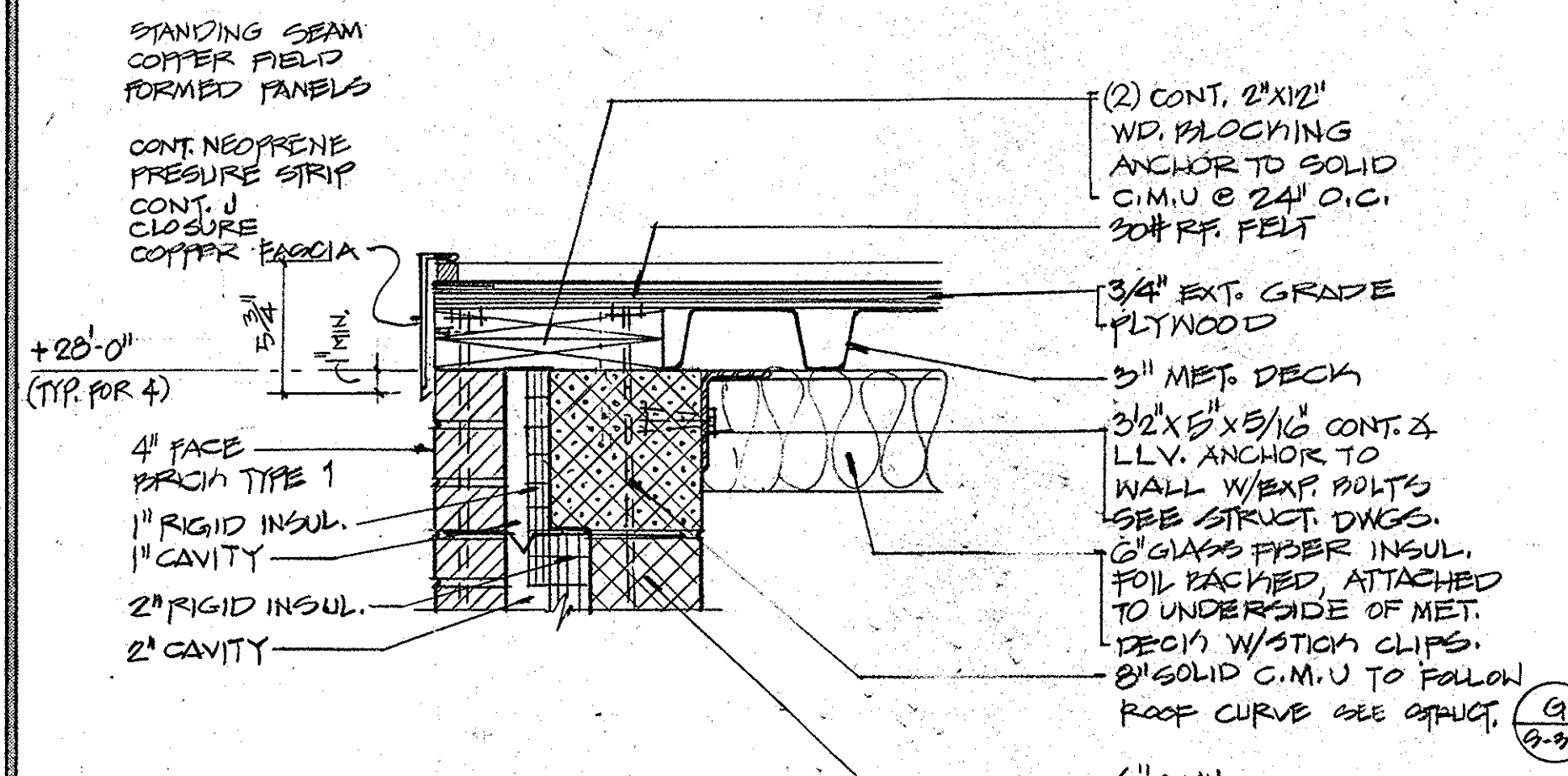


**PLAN DETAIL**  
SCALE: 1 1/2" = 1'-0"

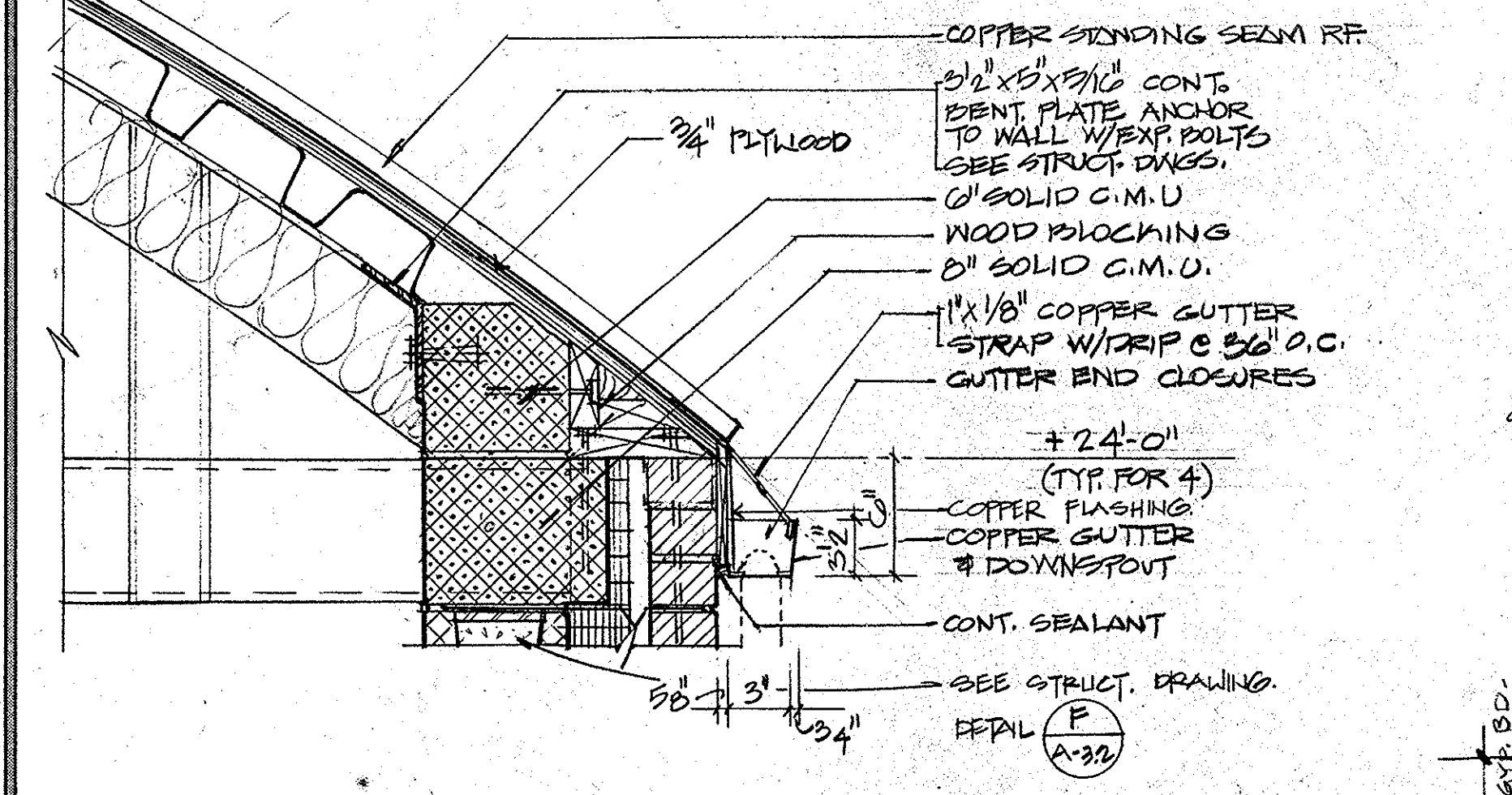
**TYPICAL NOTES**

- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
- IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED PER GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.

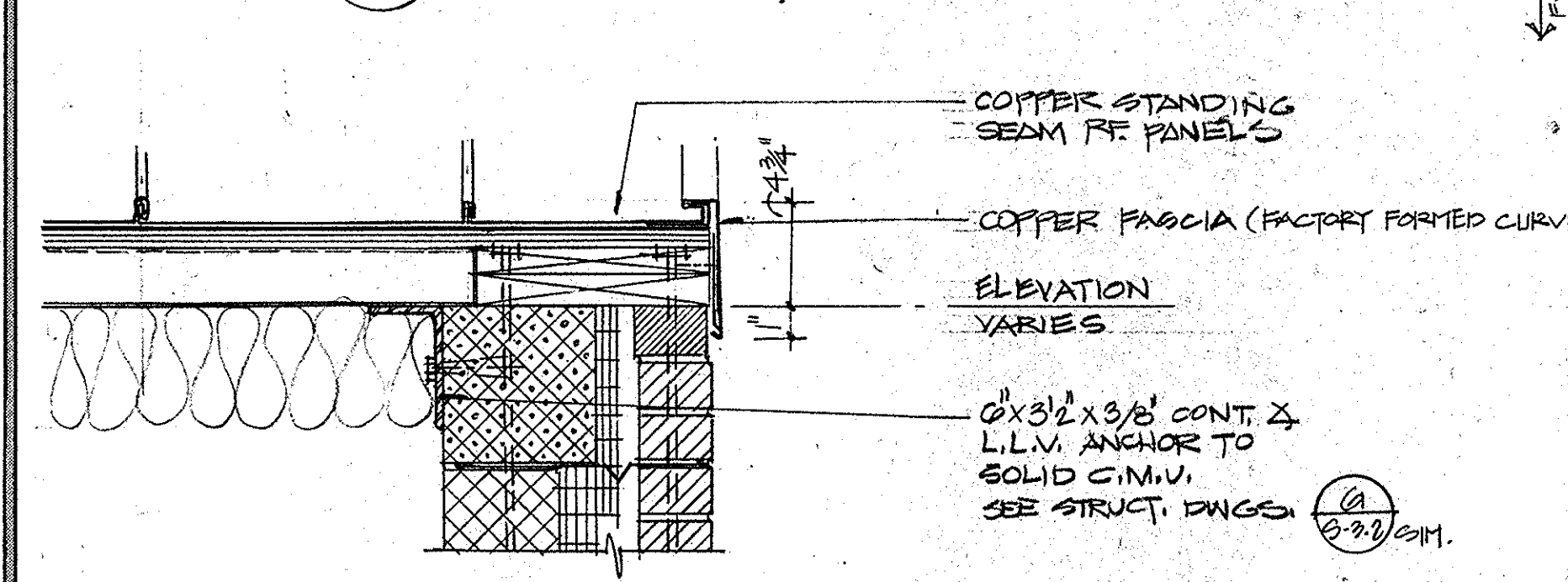
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**A-3.7**  
 BID SET  
 18 FEB 92



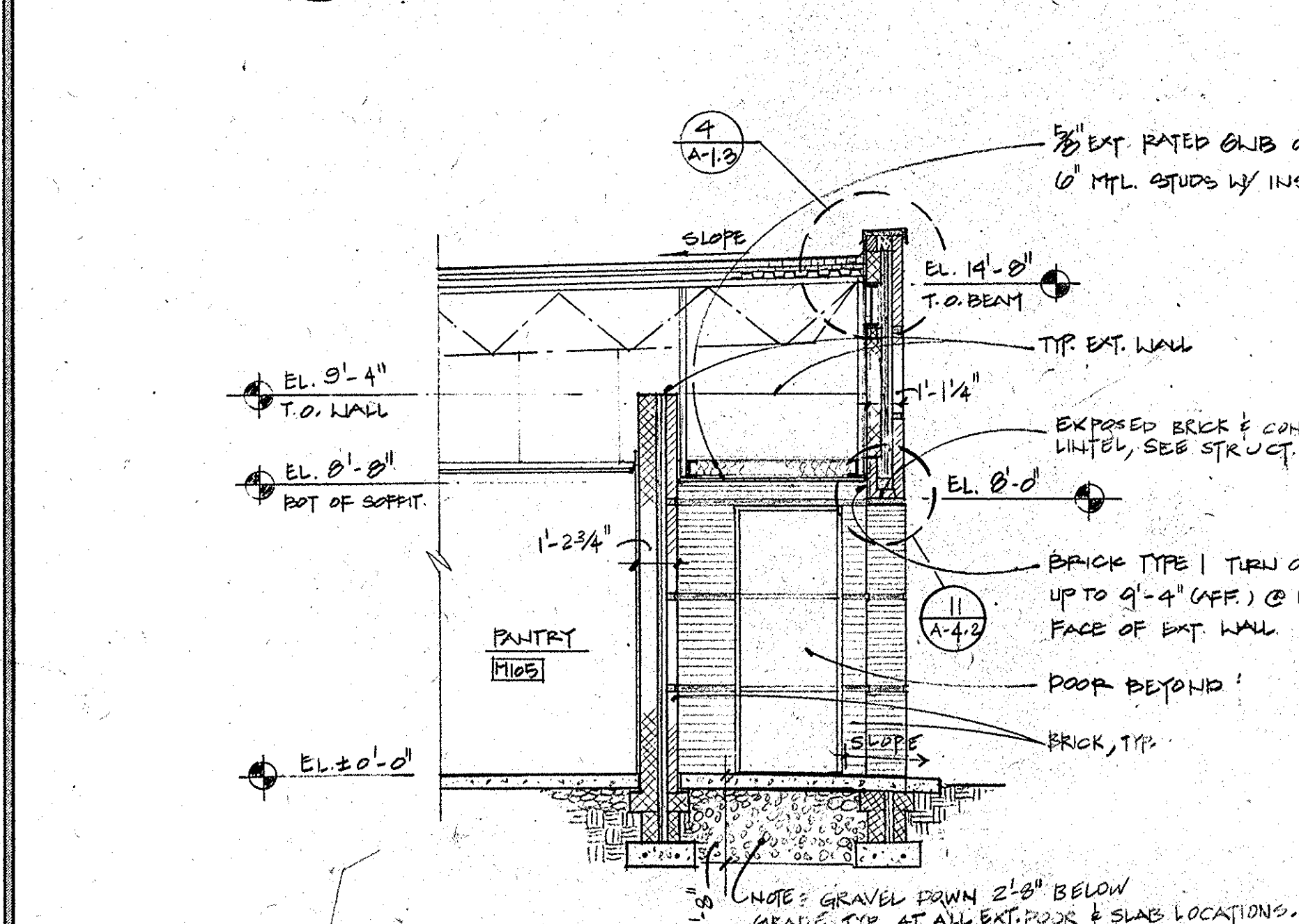
**3 DETAIL**  
SCALE: 1-1/2"=1'-0"



**4 DETAIL**  
SCALE: 1-1/2"=1'-0"

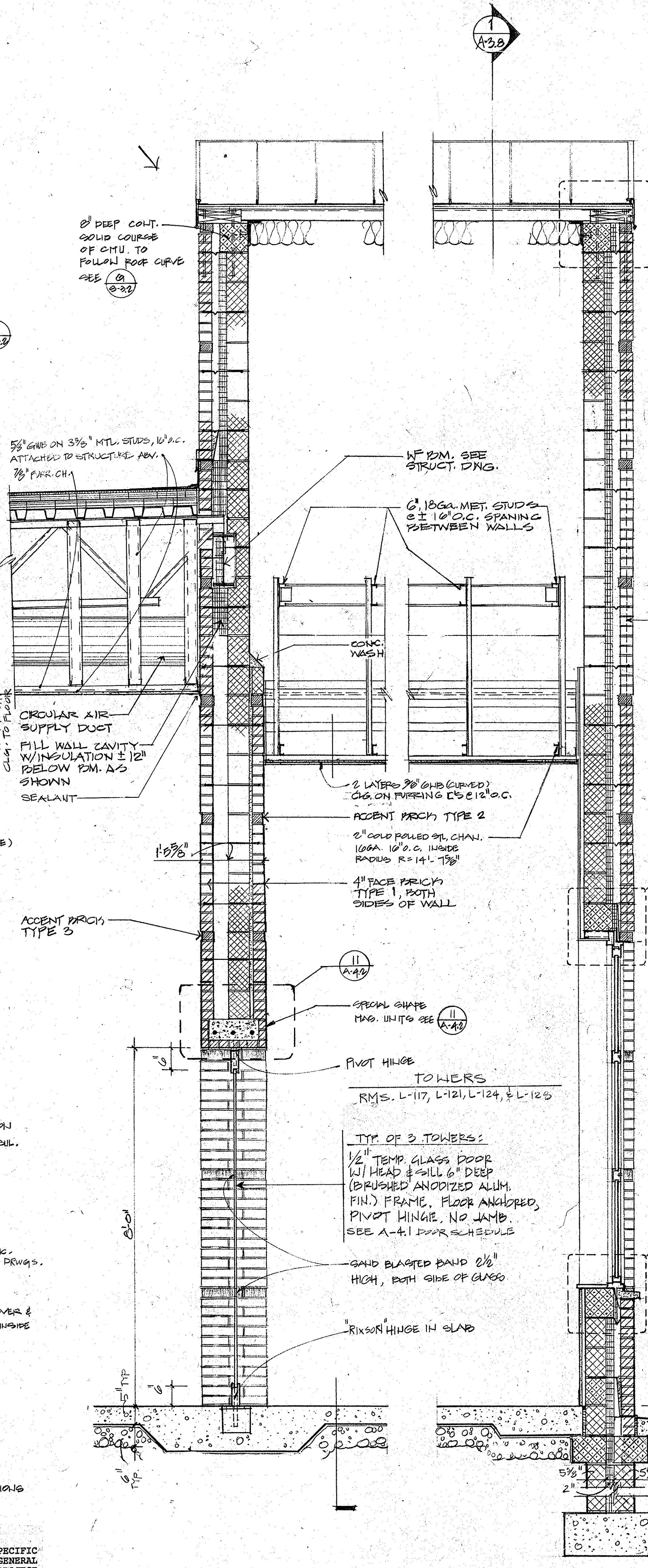


**5 DETAIL**  
SCALE: 1-1/2"=1'-0"

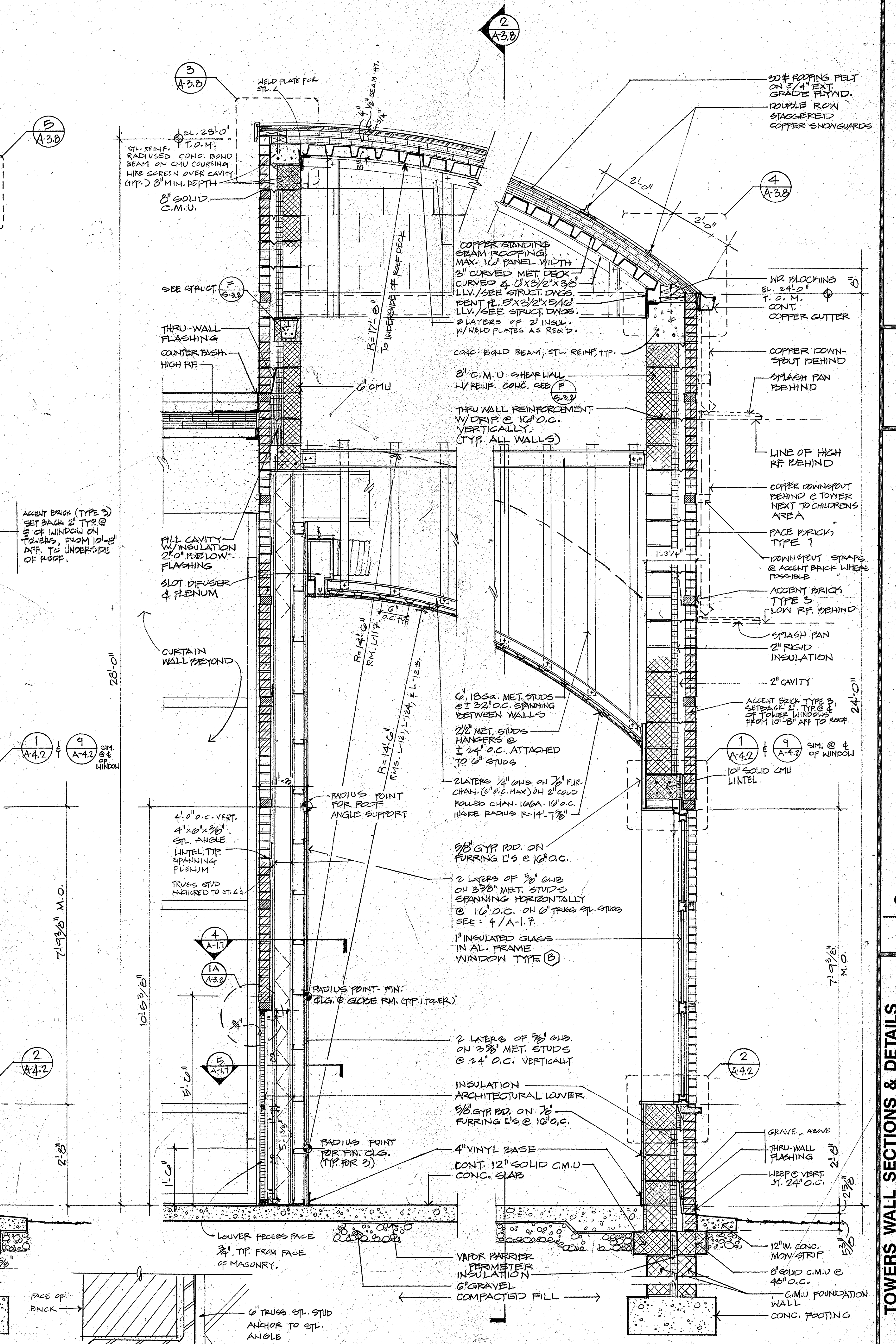


**6 EXT. WALL SECTION DETAIL**  
SCALE: 1/4"=1'-0"

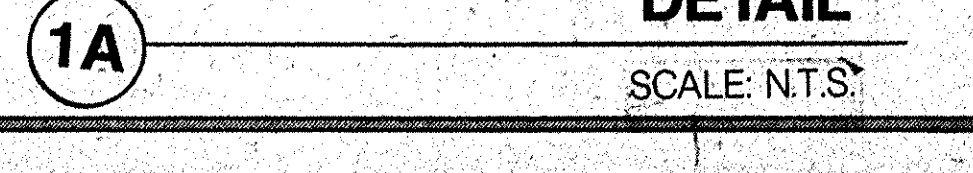
- TYPICAL NOTES**
- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
  - IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED PEA GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.



**2 WALL SECTION @ TOWERS**  
SCALE: 3/4"=1'-0"  
REPEAT APPLICABLE NOTES FROM DETAIL 1/A-3.8



**1 WALL SECTION @ TOWERS**  
SCALE: 3/4"=1'-0"



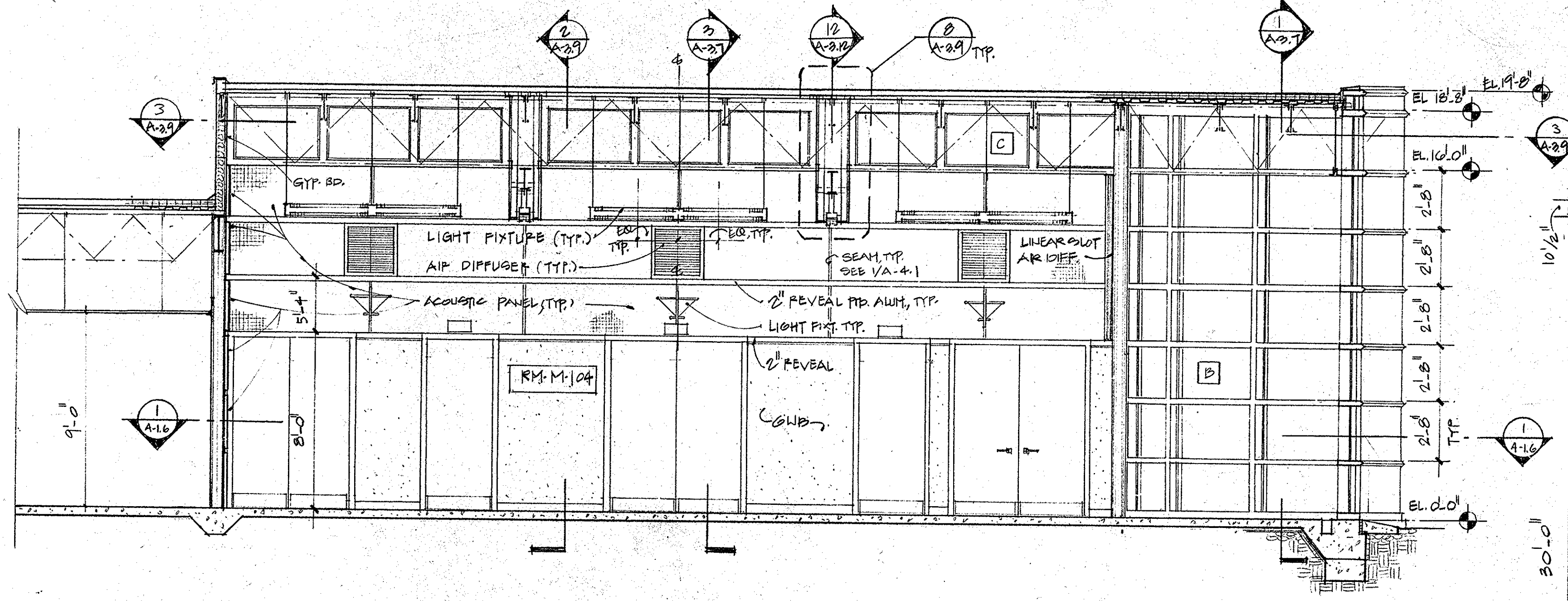
**1A DETAIL**  
SCALE: N.T.S.



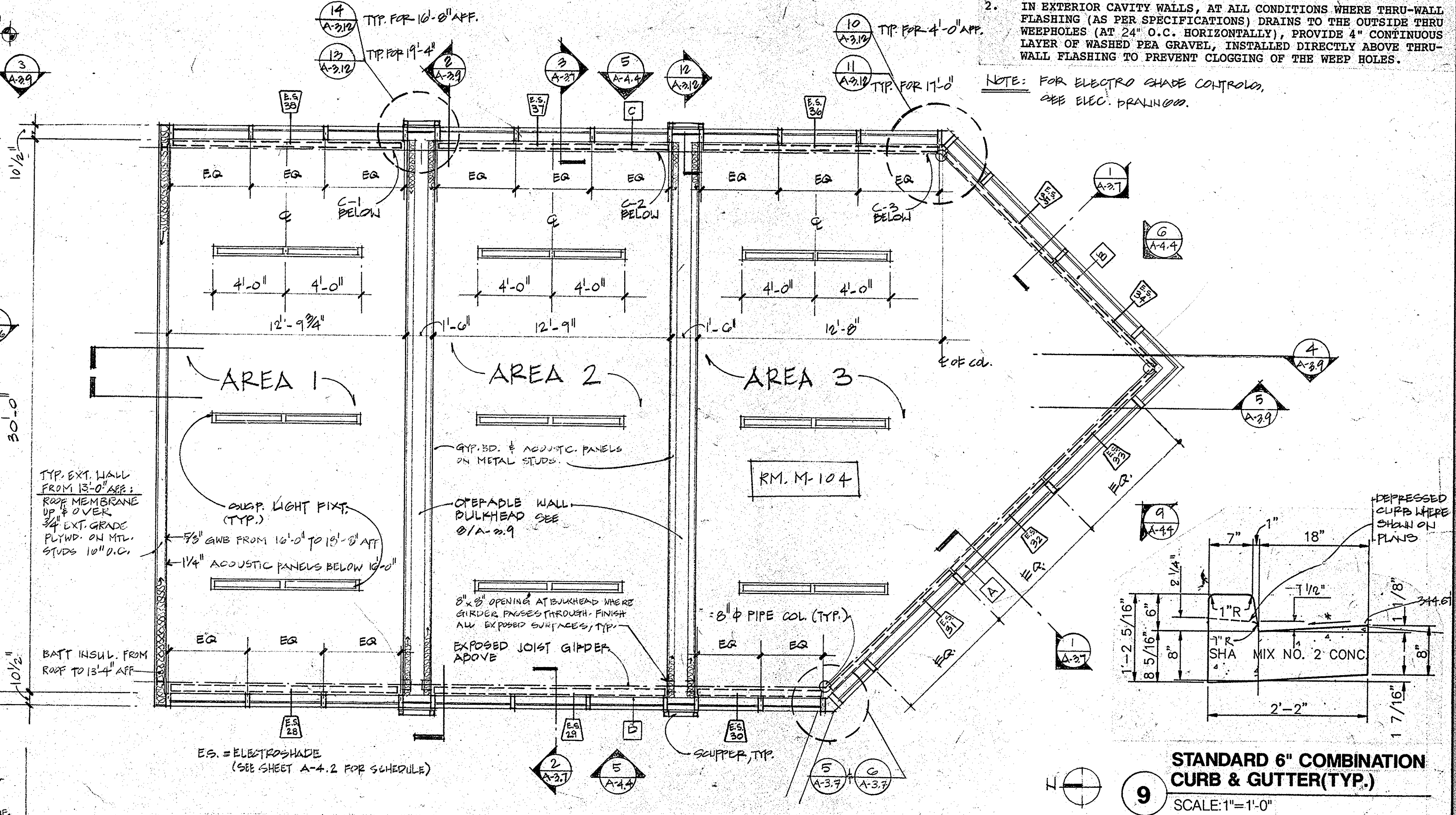
**TYPICAL NOTES**

- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
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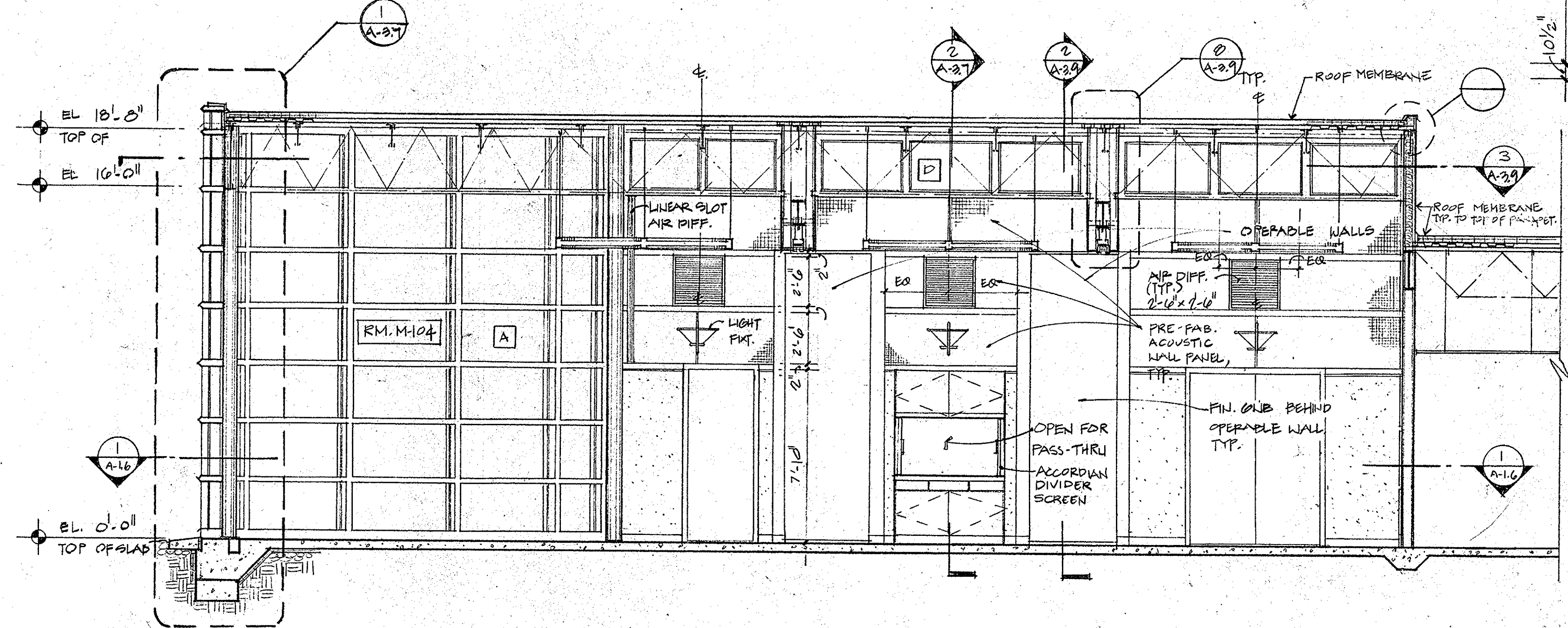
NOTE: FOR ELECTRO SHADE CONTROLS, SEE ELEC. DRAWINGS.



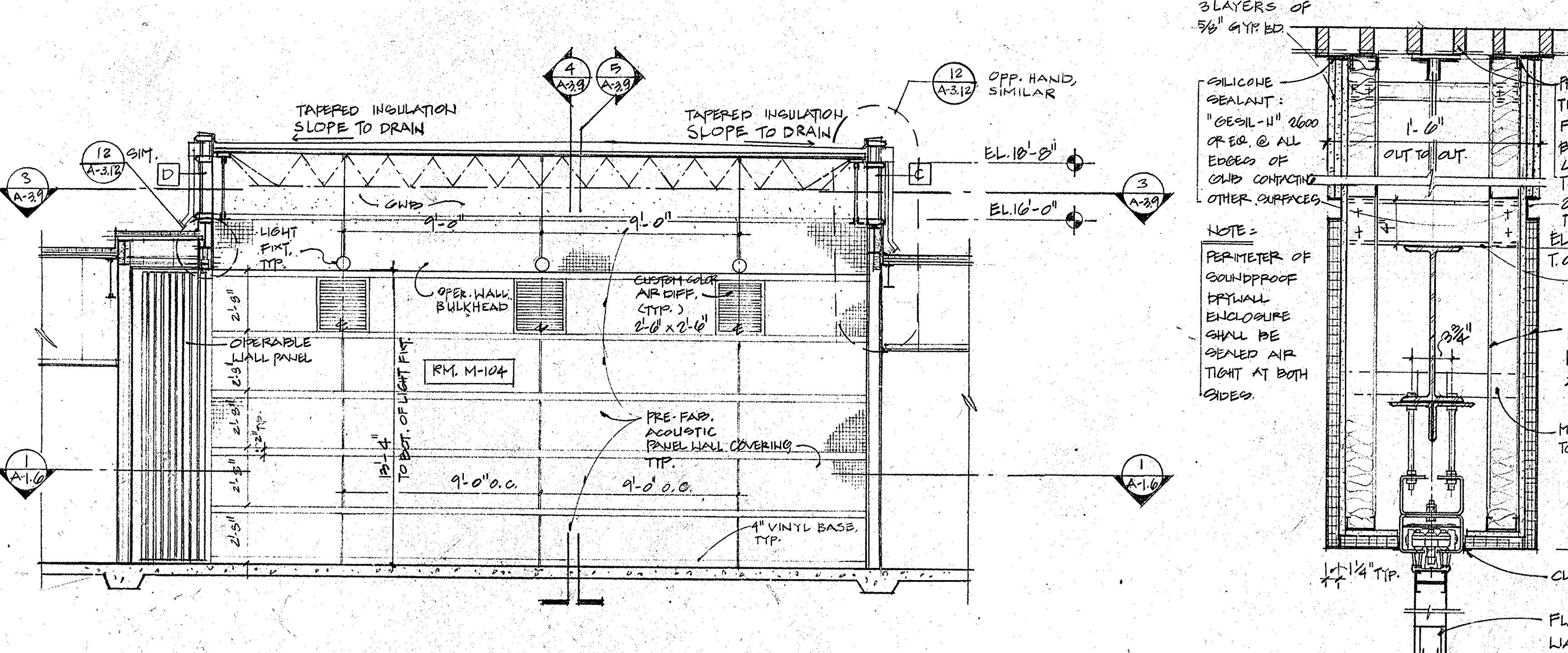
**5 MULTI-PURPOSE ROOM SECTION LOOKING EAST**  
SCALE: 1/4" = 1'-0"



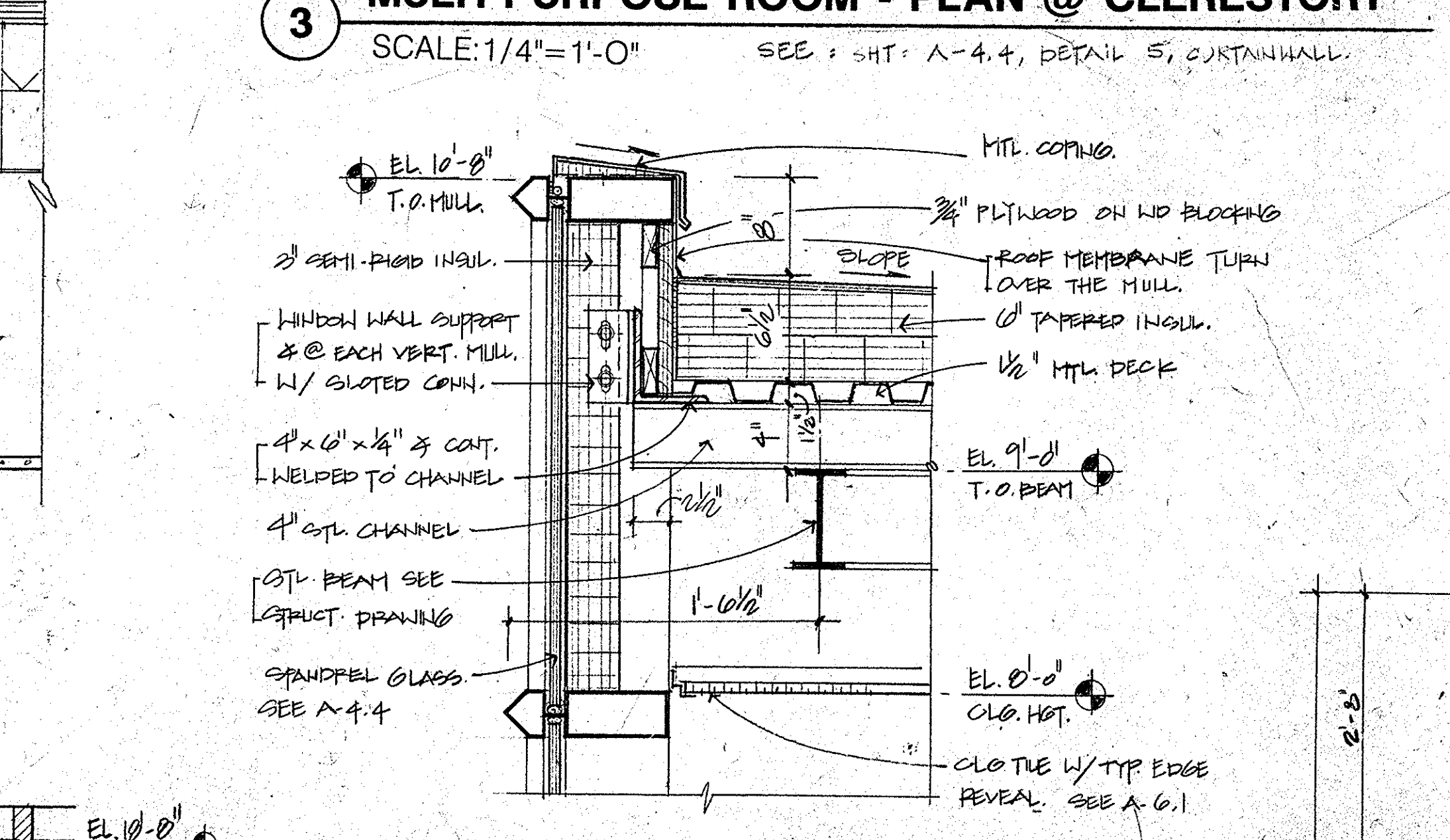
**3 MULTI-PURPOSE ROOM - PLAN @ CLERESTORY**  
SCALE: 1/4" = 1'-0" SEE: -HT: A-4.4, DETAIL 5, CORTANHALL.



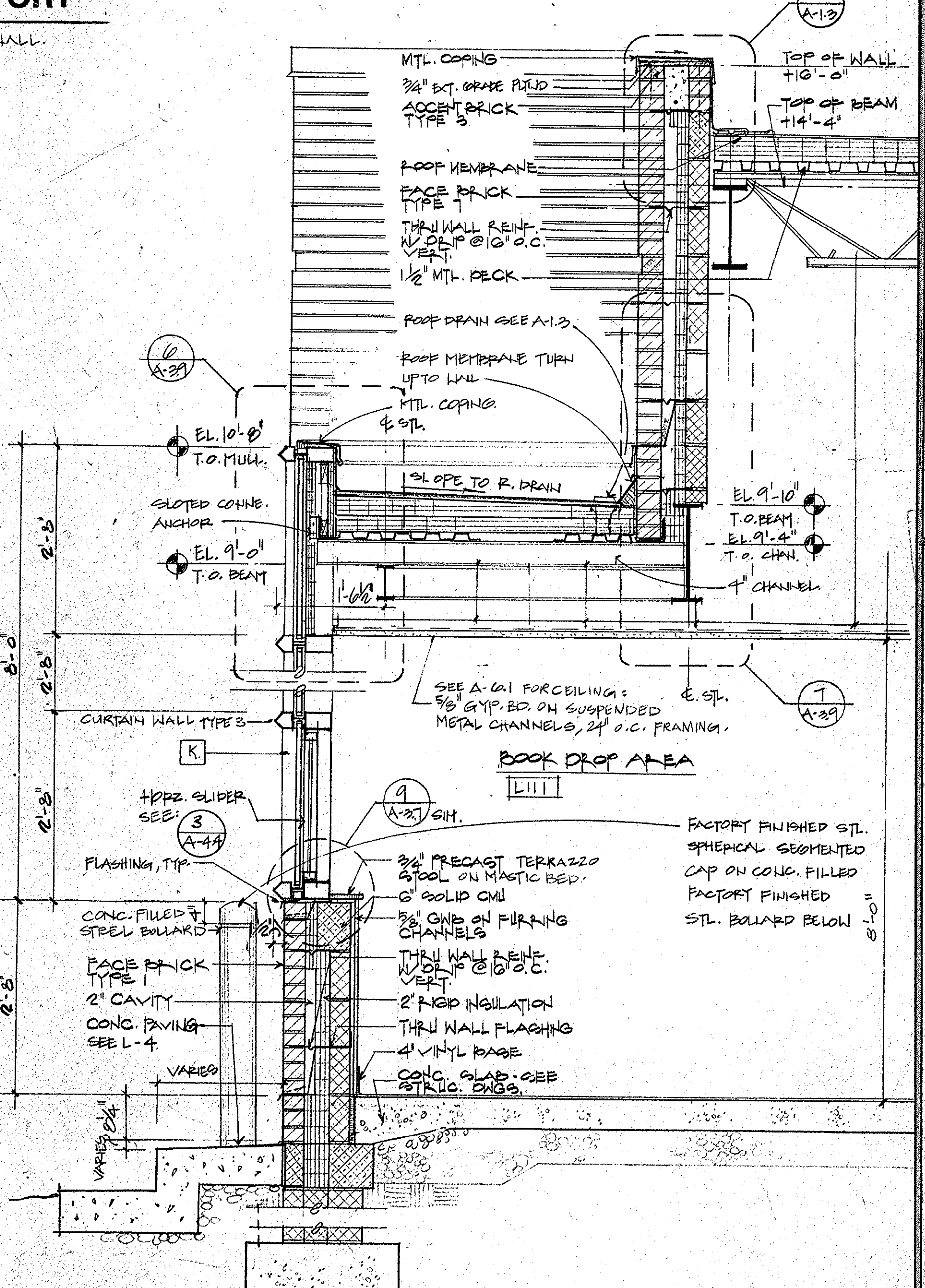
**4 MULTI-PURPOSE ROOM SECTION LOOKING WEST**  
SCALE: 1/4" = 1'-0"



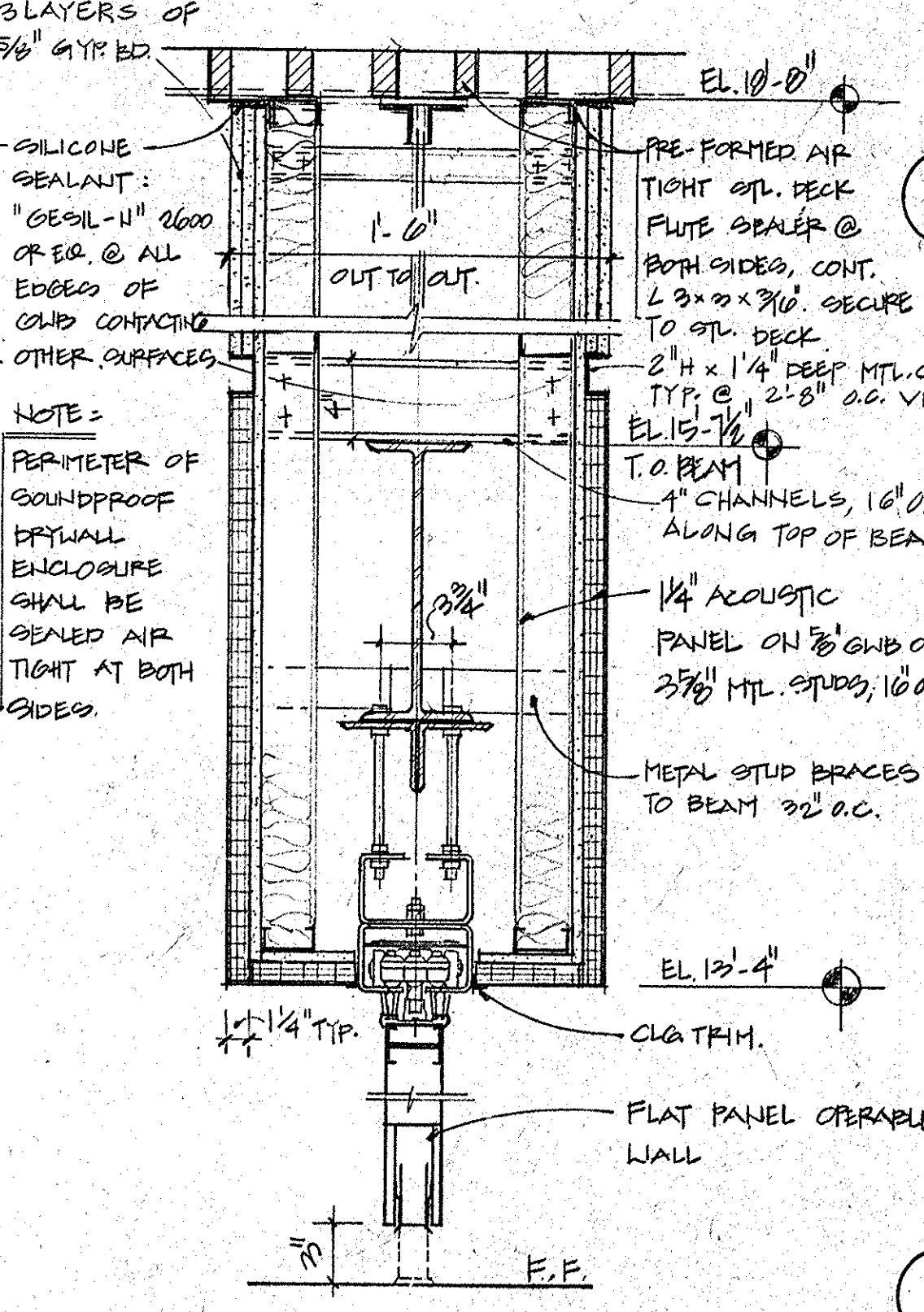
**2 MULTI-PURPOSE ROOM SECTION LOOKING NORTH**  
SCALE: 1/4" = 1'-0"



**6 SECTION DETAIL** SEE 1A-3.9  
SCALE: 1 1/2" = 1'-0"



**1 WALL SECTION AT BOOK DROP AREA**  
SCALE: 3/4" = 1'-0"

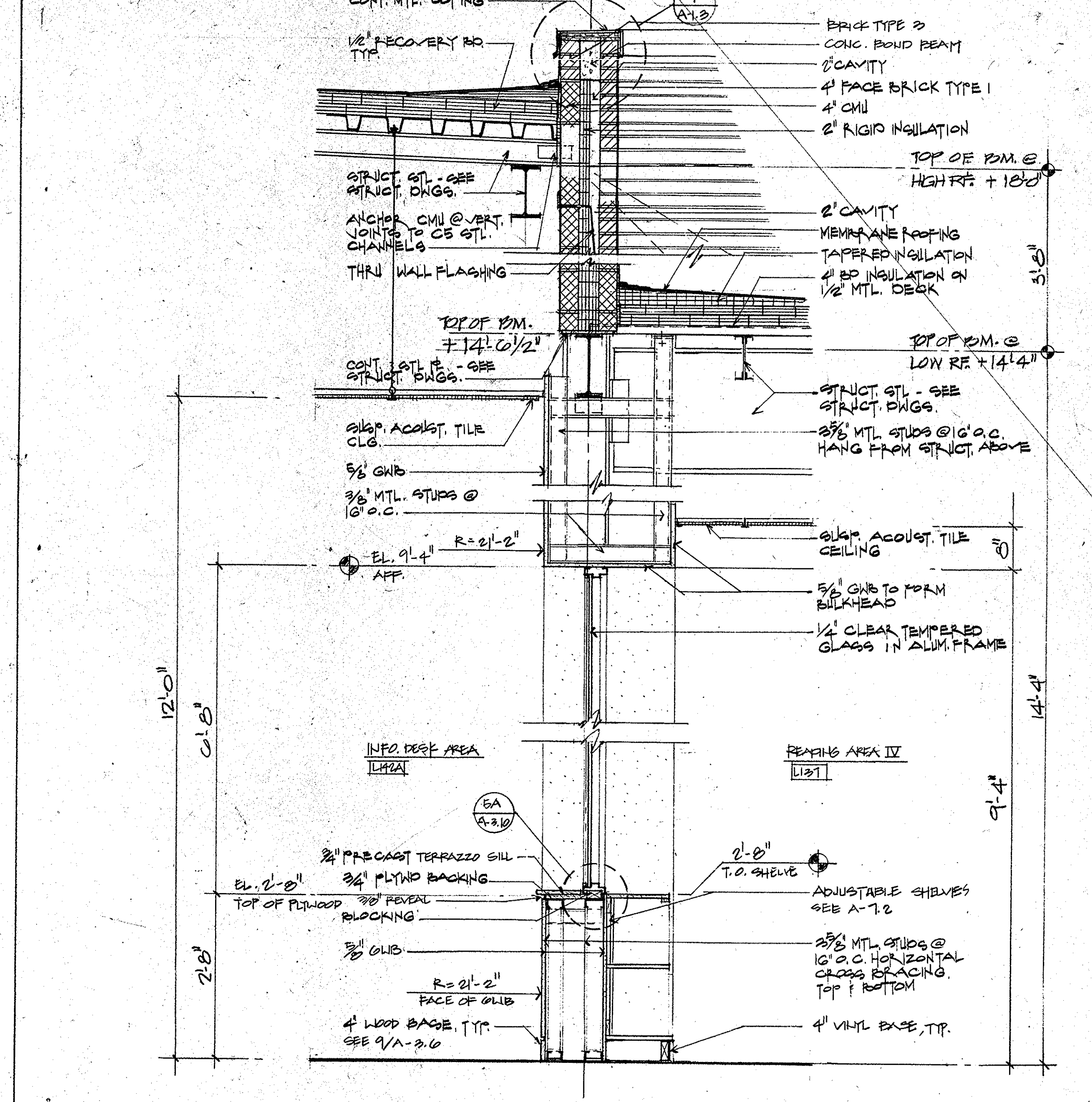
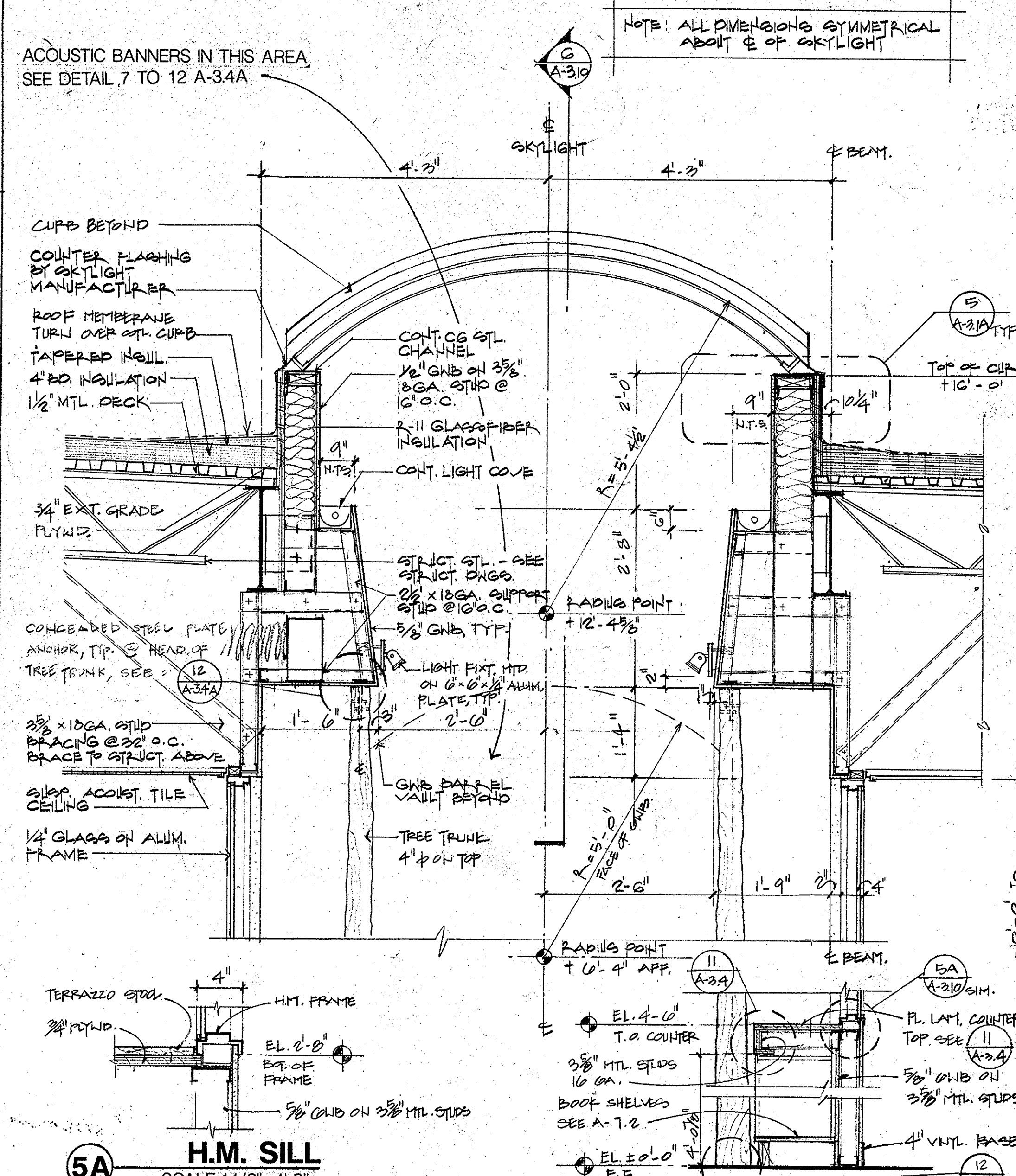
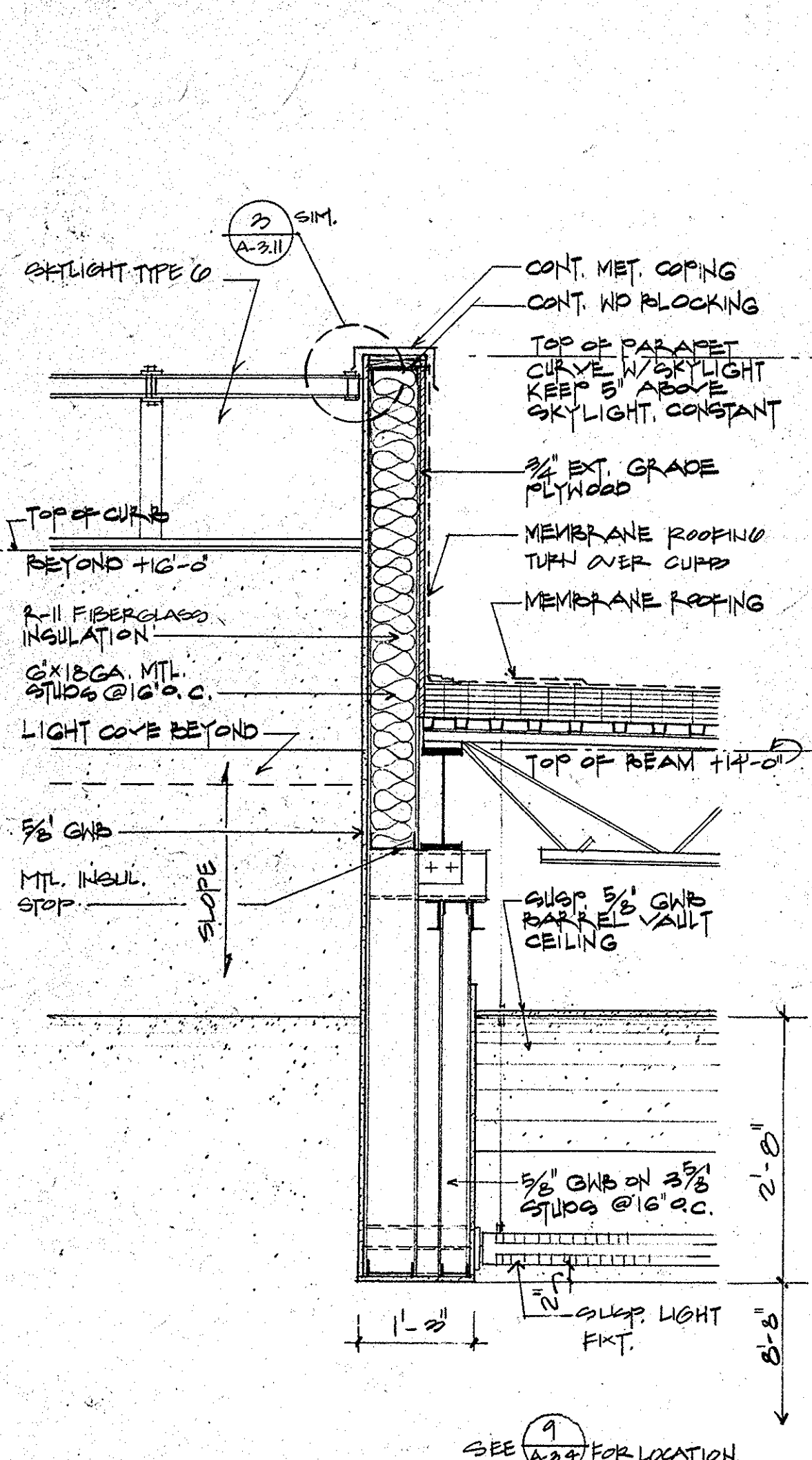
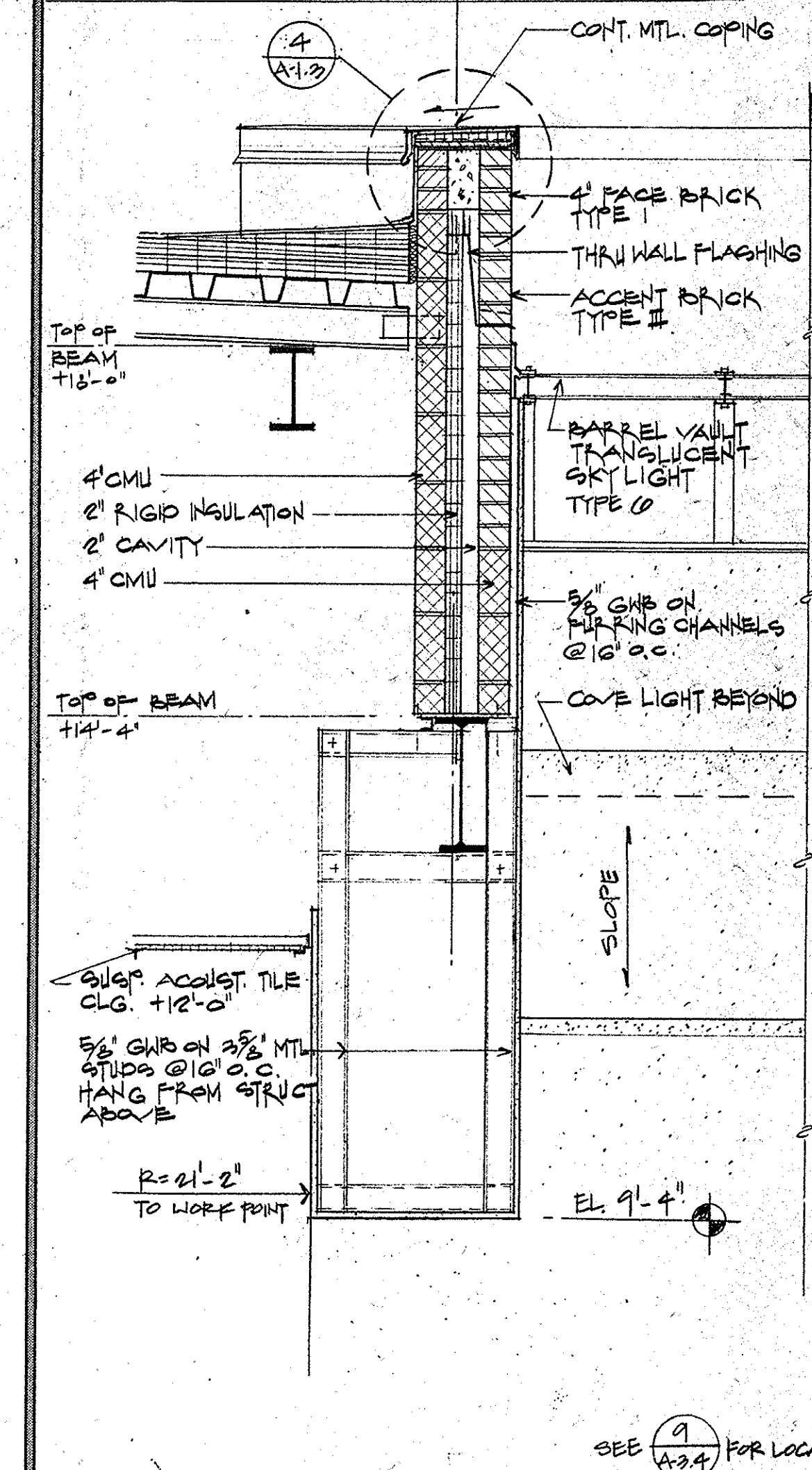


**8 SECTION** SEE: 12 A-3.12  
SCALE: 1 1/2" = 1'-0"

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**TYPICAL NOTES**

- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT SPECIFICALLY DRAWN. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
- IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED PER GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.

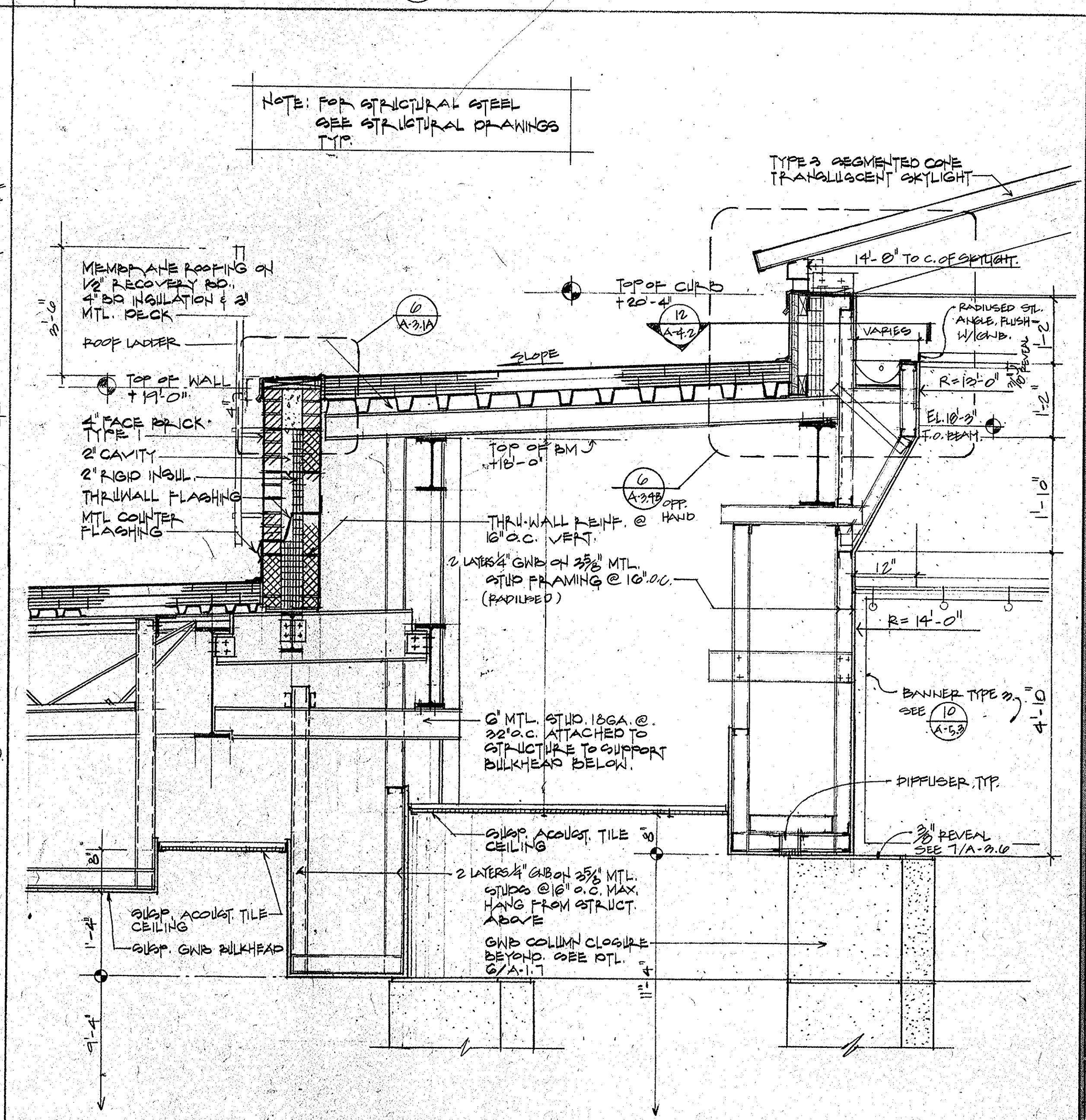
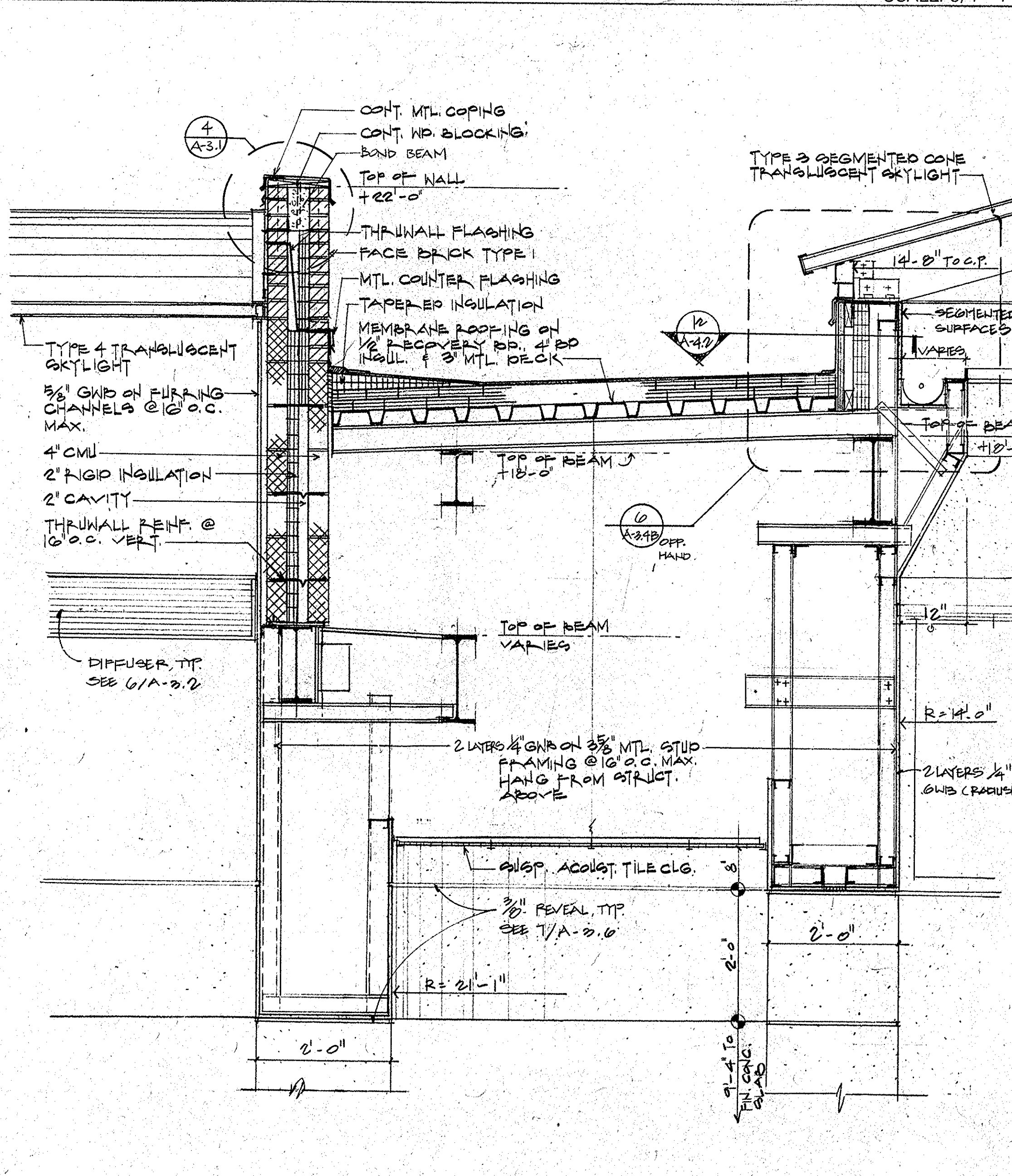
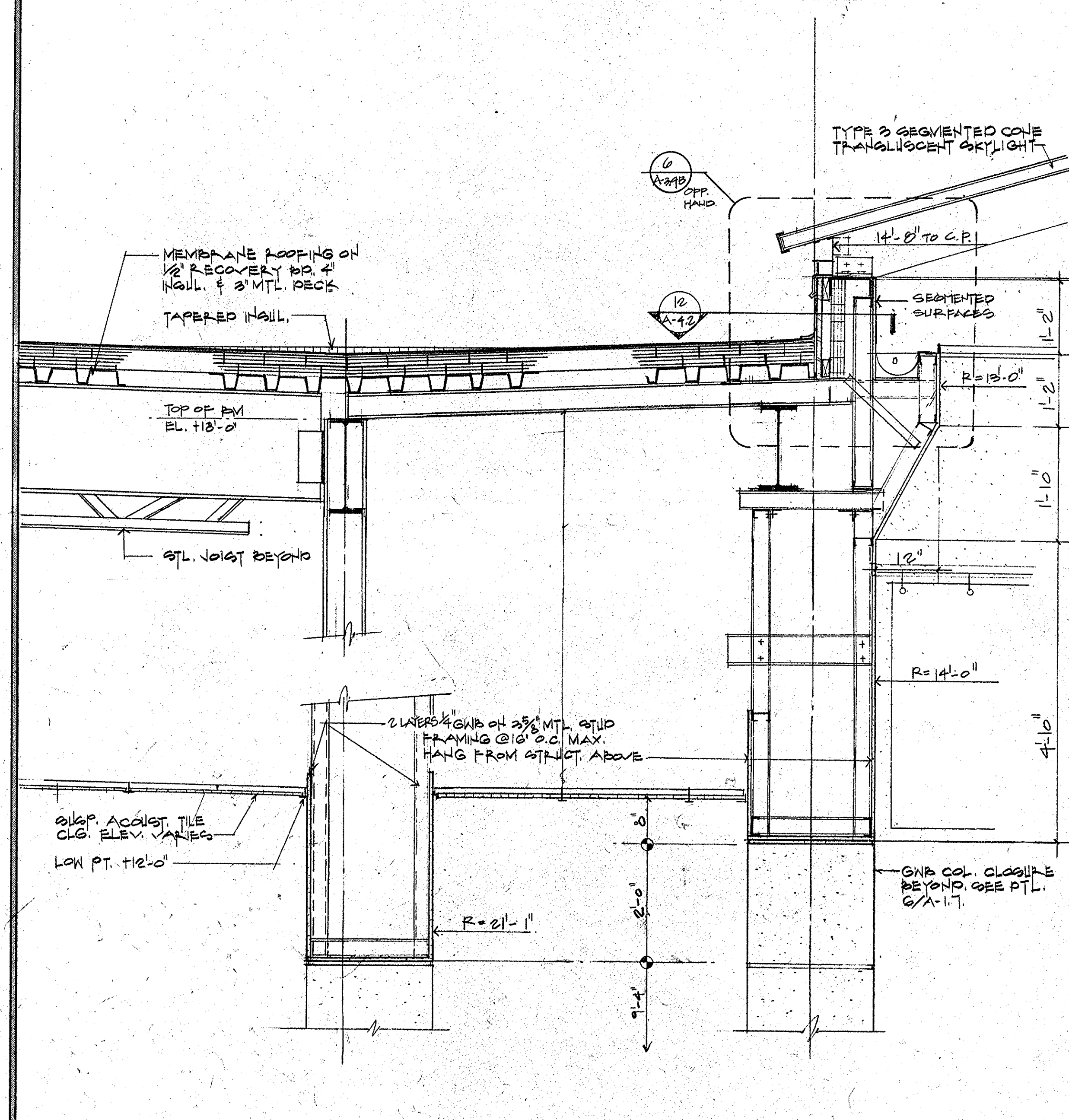


7 SECTION DETAIL AT SKYLIGHT END SCALE: 3/4"=1'-0"

6 SECTION DETAIL AT SKYLIGHT END SCALE: 3/4"=1'-0"

5A H.M. SILL SCALE: 1 1/2"=1'-0"

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



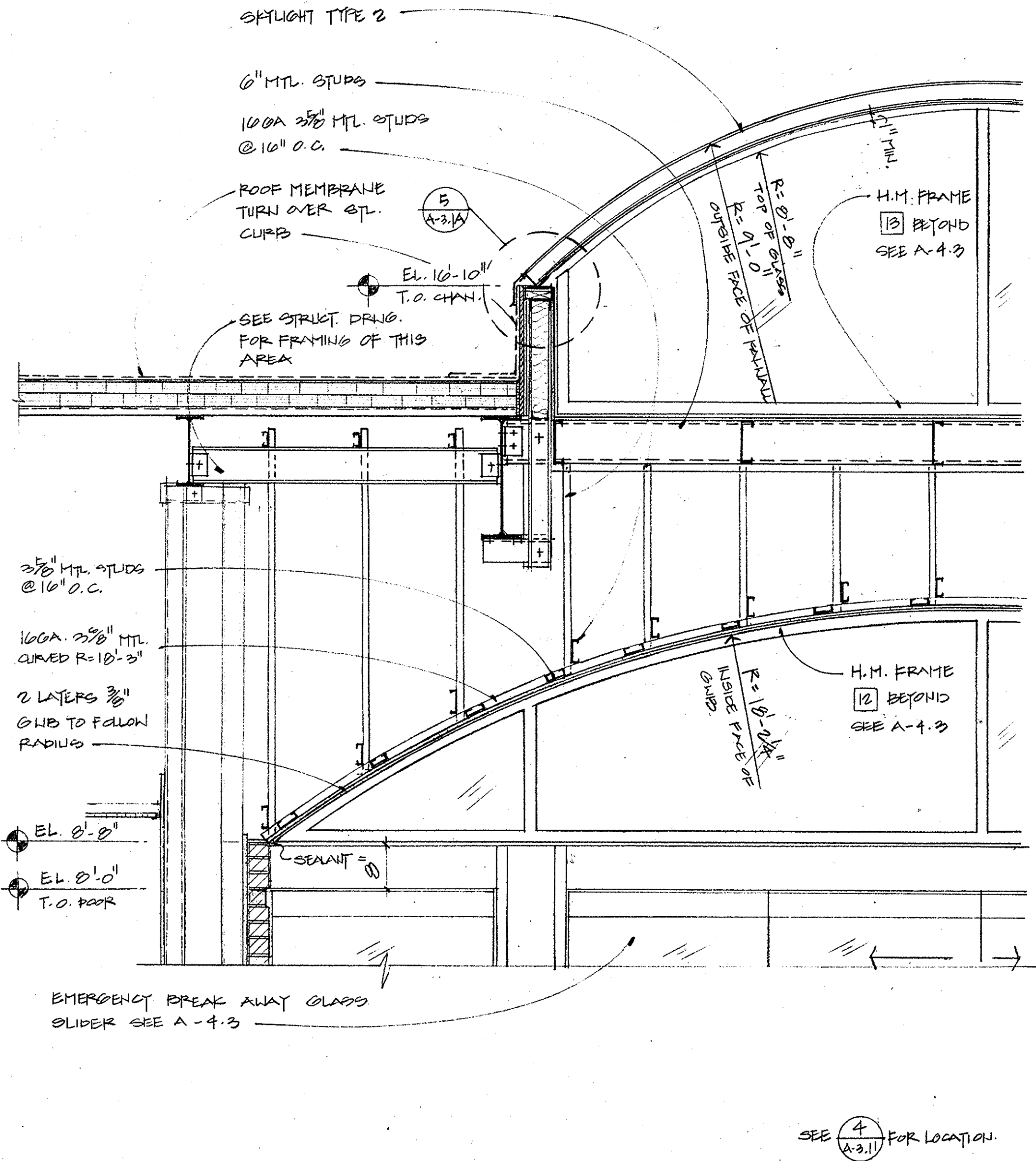
3 SECTION DETAIL AT SKYLIGHT TYPE 3 SCALE: 3/4"=1'-0"

SECTION DETAIL AT SKYLIGHT TYPE 3 SCALE: 3/4"=1'-0"

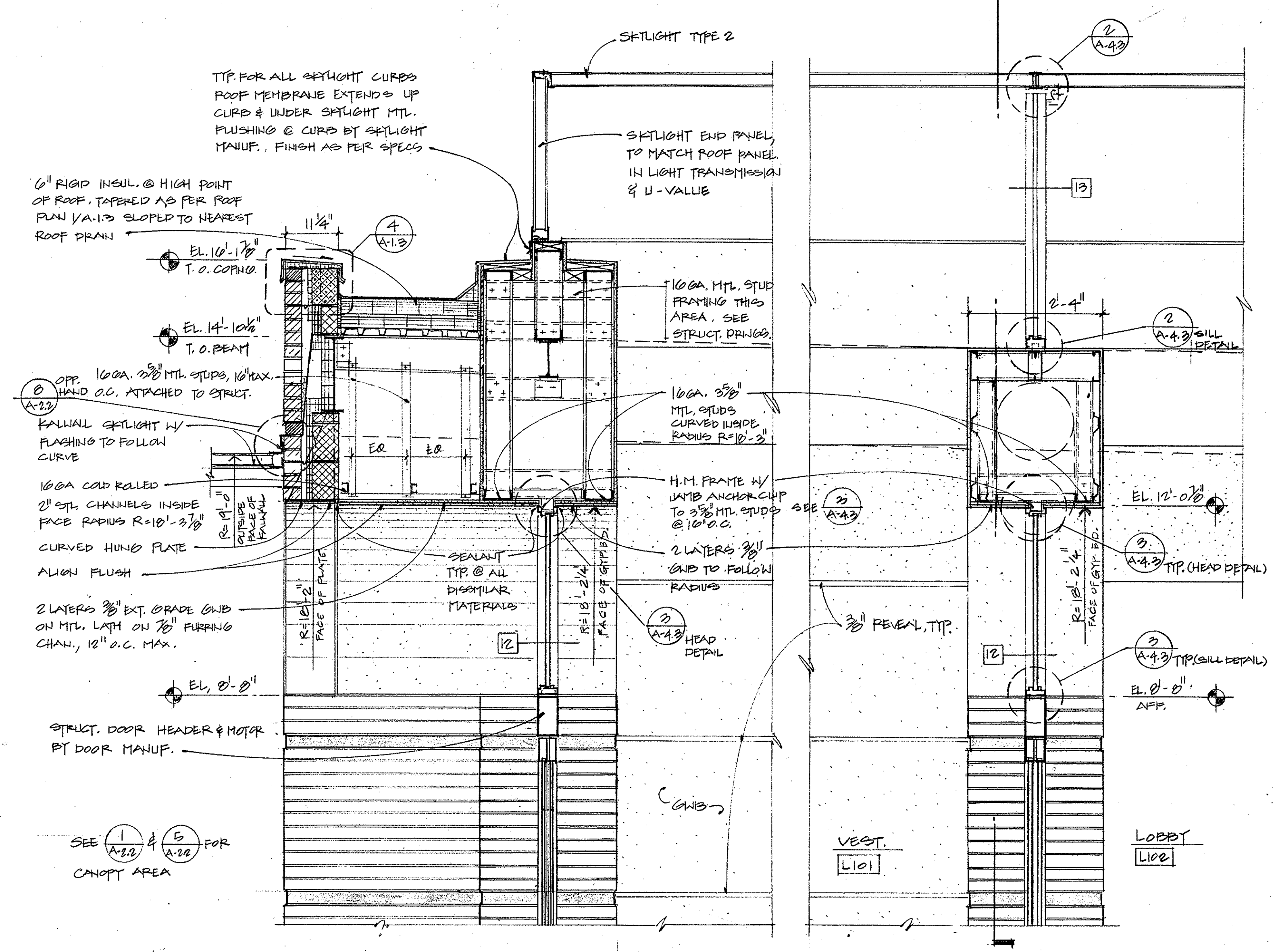
2 SECTION DETAIL AT SKYLIGHT TYPE 3 SCALE: 3/4"=1'-0"

1 SECTION DETAIL AT SKYLIGHT TYPE 3 SCALE: 3/4"=1'-0"

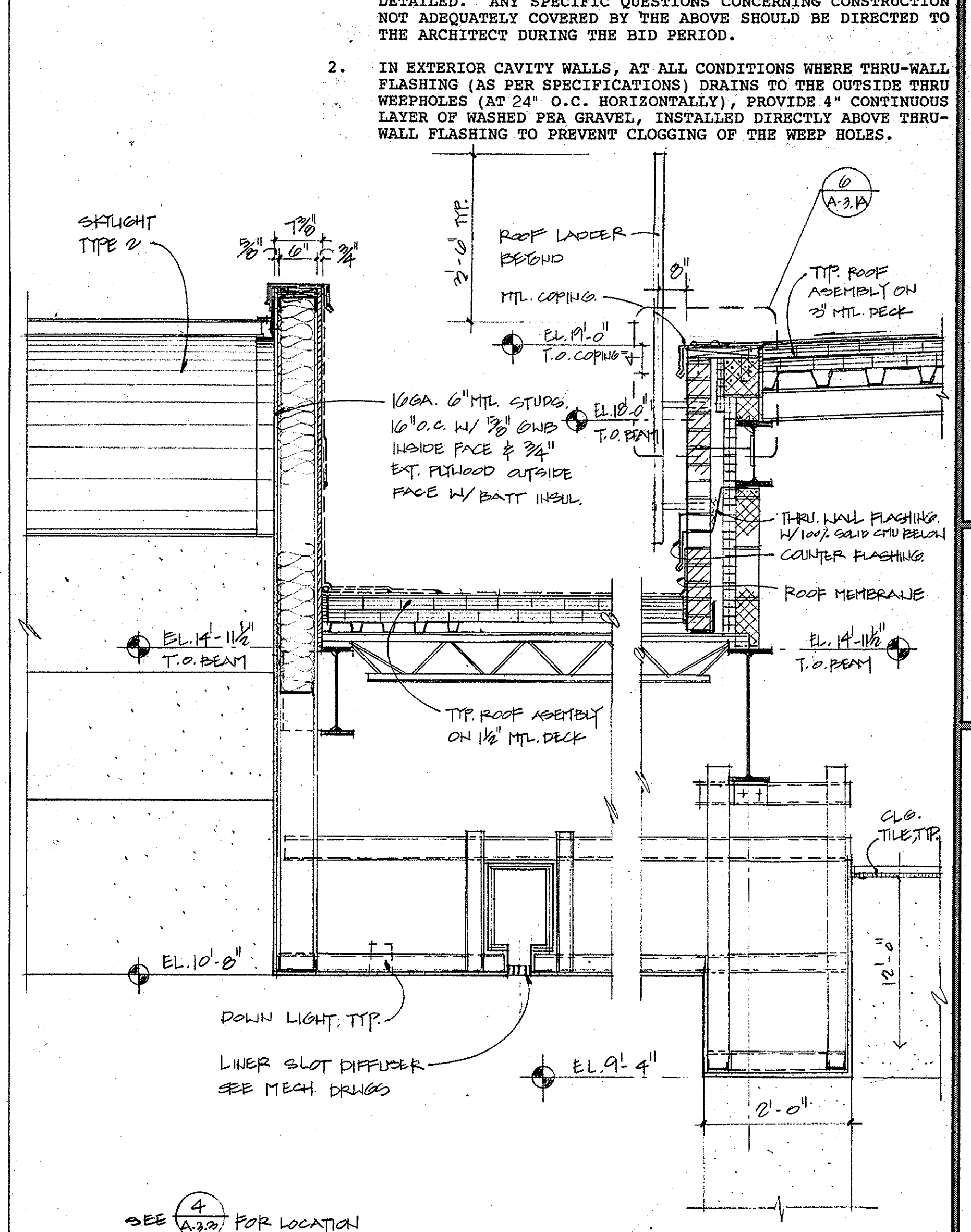
SECTION DETAILS: SKYLIGHT  
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**5 SECTION DETAIL @ VAULTED BULKHD. & SKYLIGHT TYPE 2**  
SCALE: 3/4" = 1'-0"

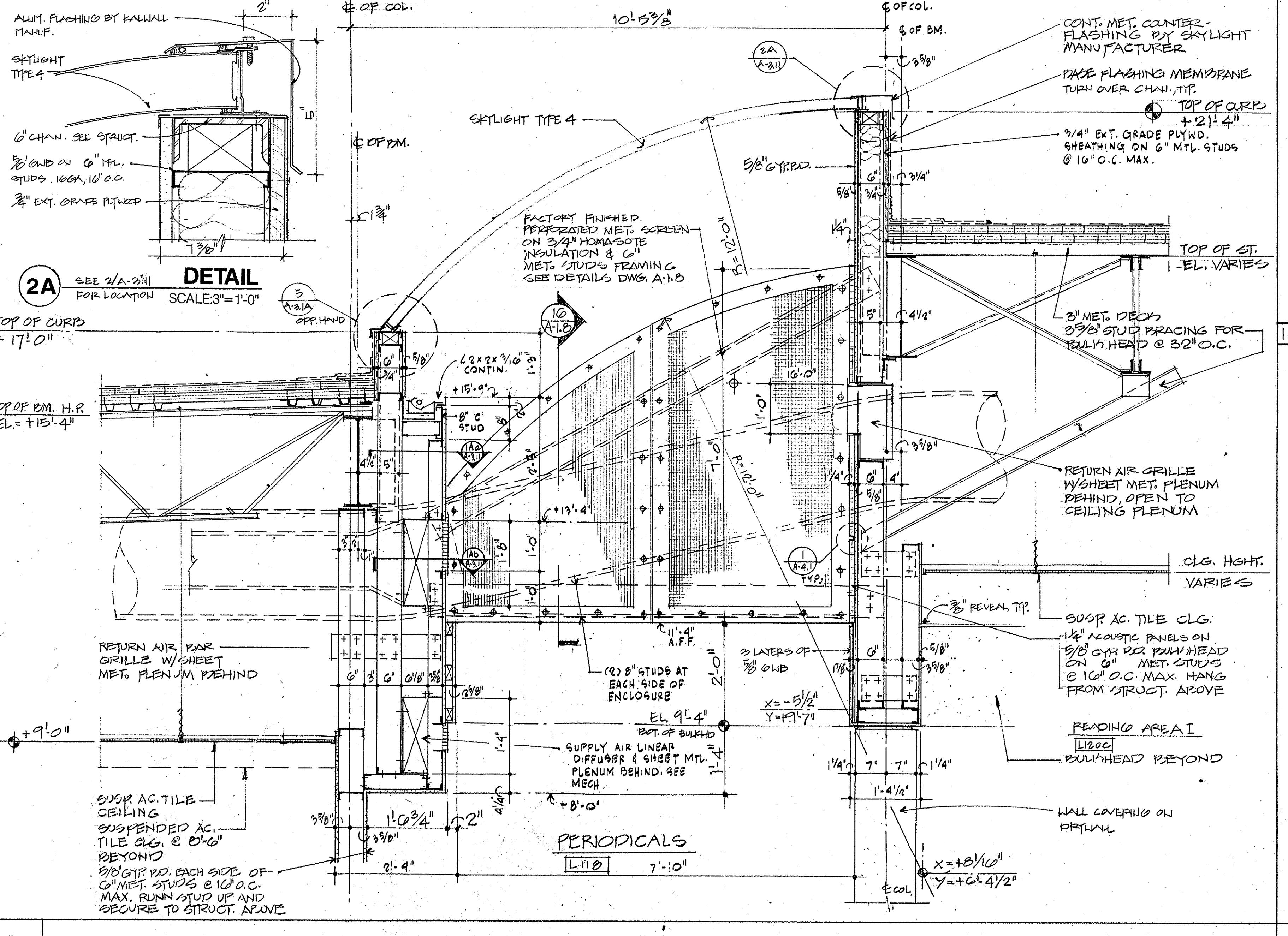


**4 SECTION DETAIL @ SKYLIGHT TYPE 2 & CANOPY**  
SCALE: 3/4" = 1'-0"

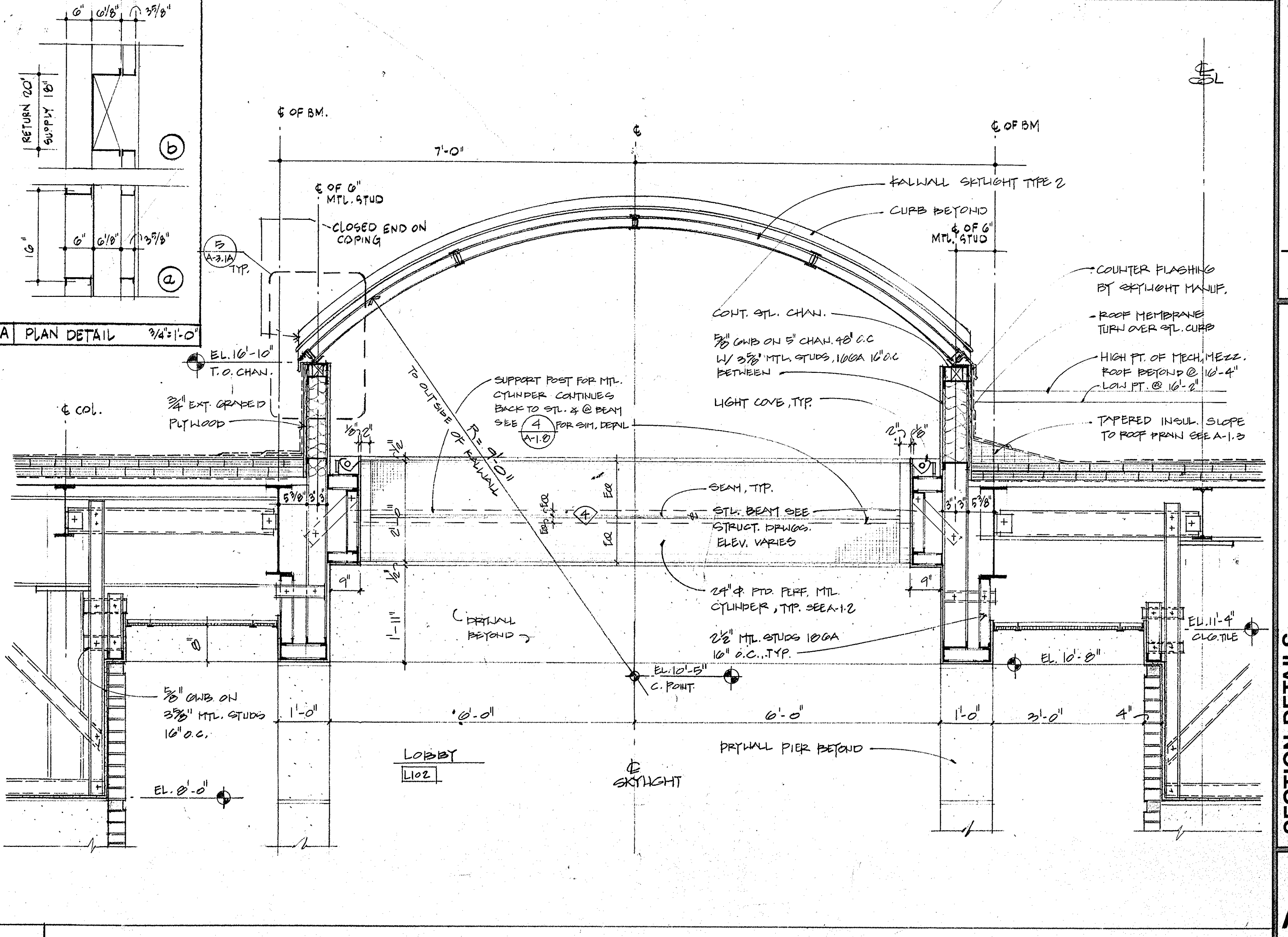


**3 SECTION DETAIL @ SKYLIGHT TYPE 2**  
SCALE: 3/4" = 1'-0"

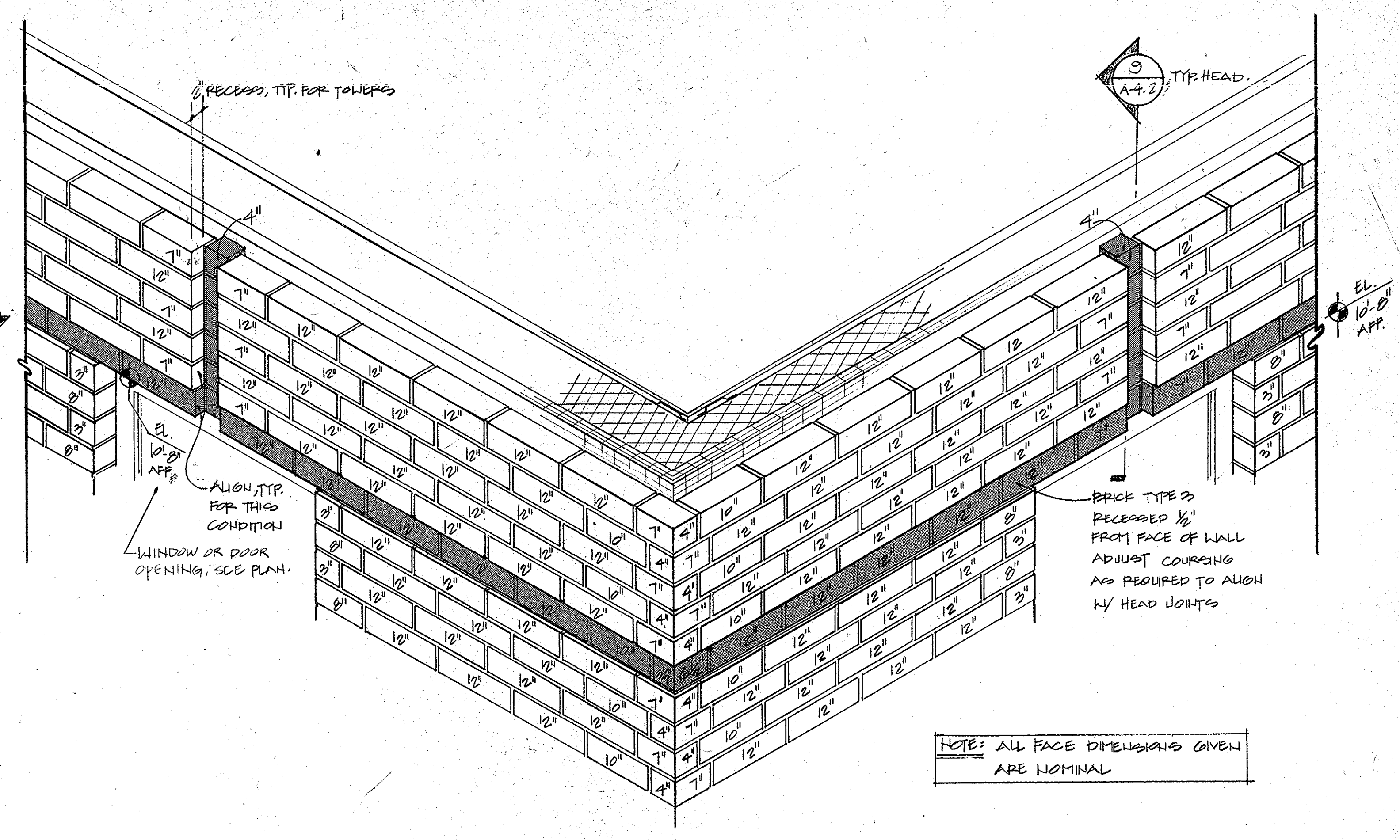
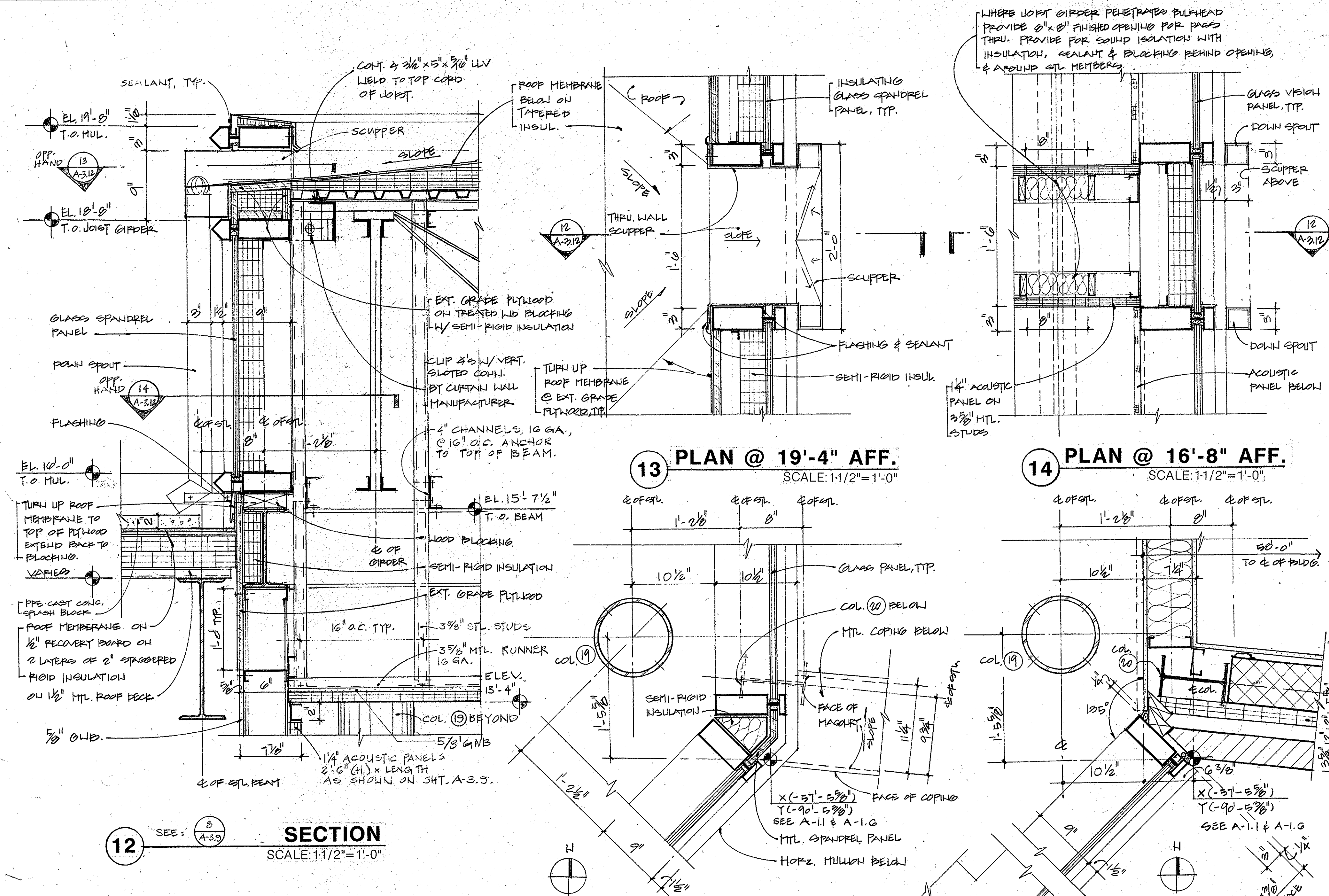
- TYPICAL NOTES**
1. SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDEXED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
  2. IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE A CONTINUOUS LAYER OF WASHED PEA GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.



**2 CROSS SECTION @ SKYLIGHT TYPE 4**  
SCALE: 3/4" = 1'-0"



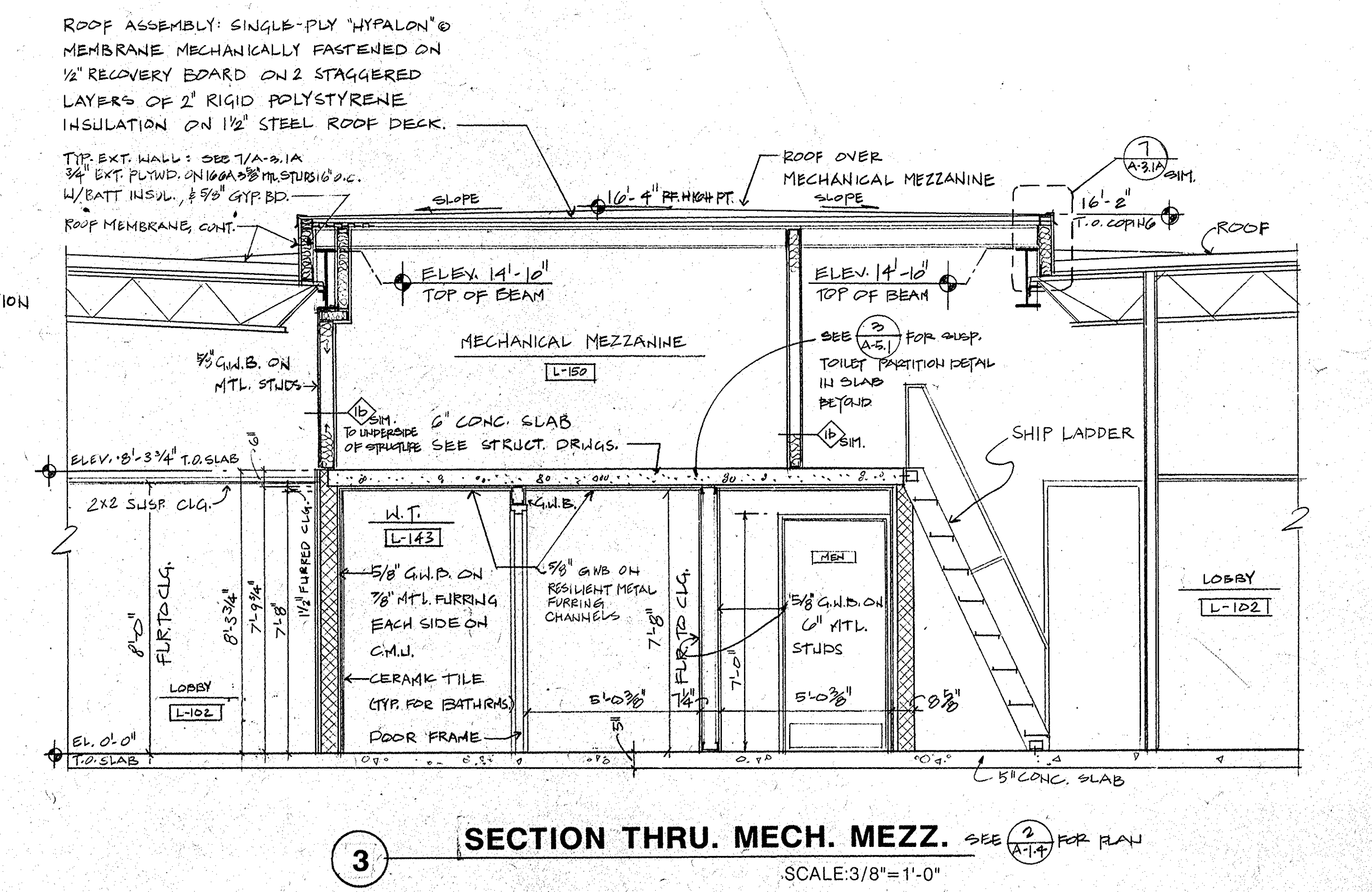
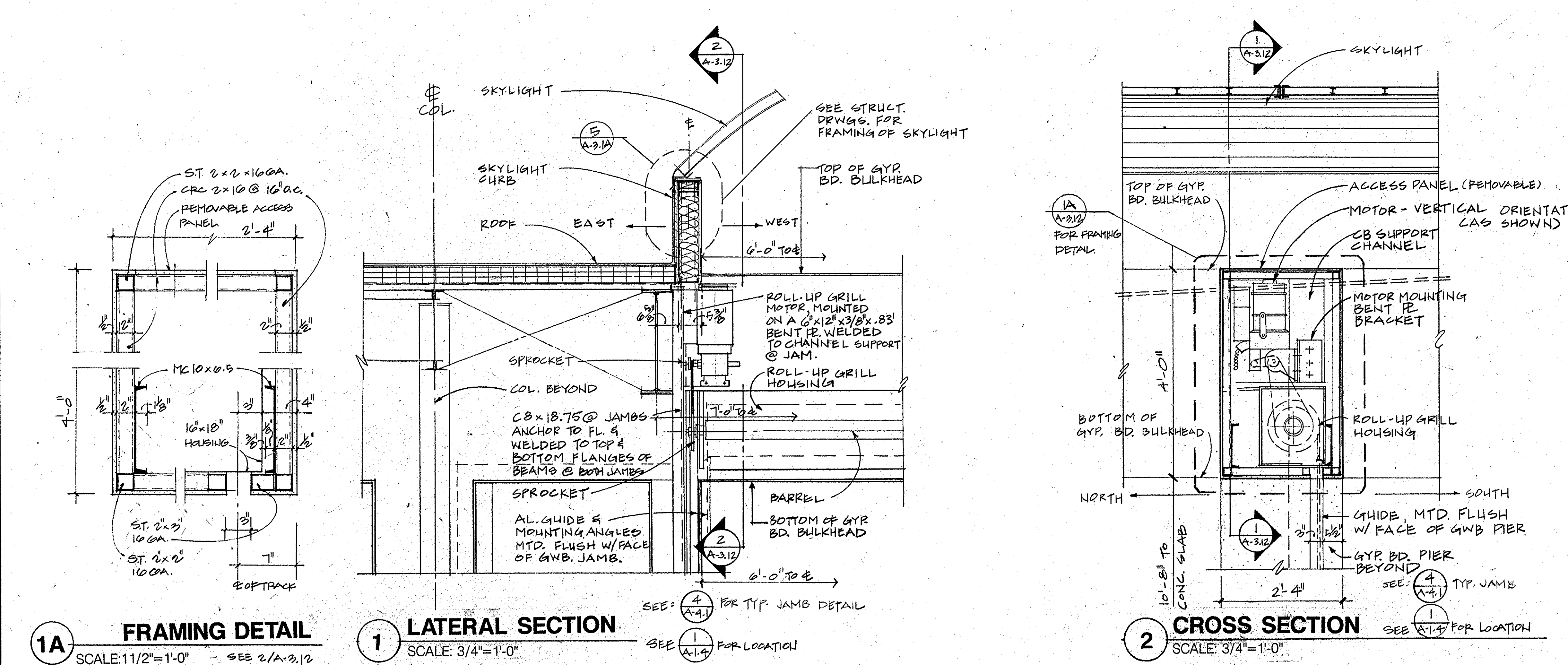
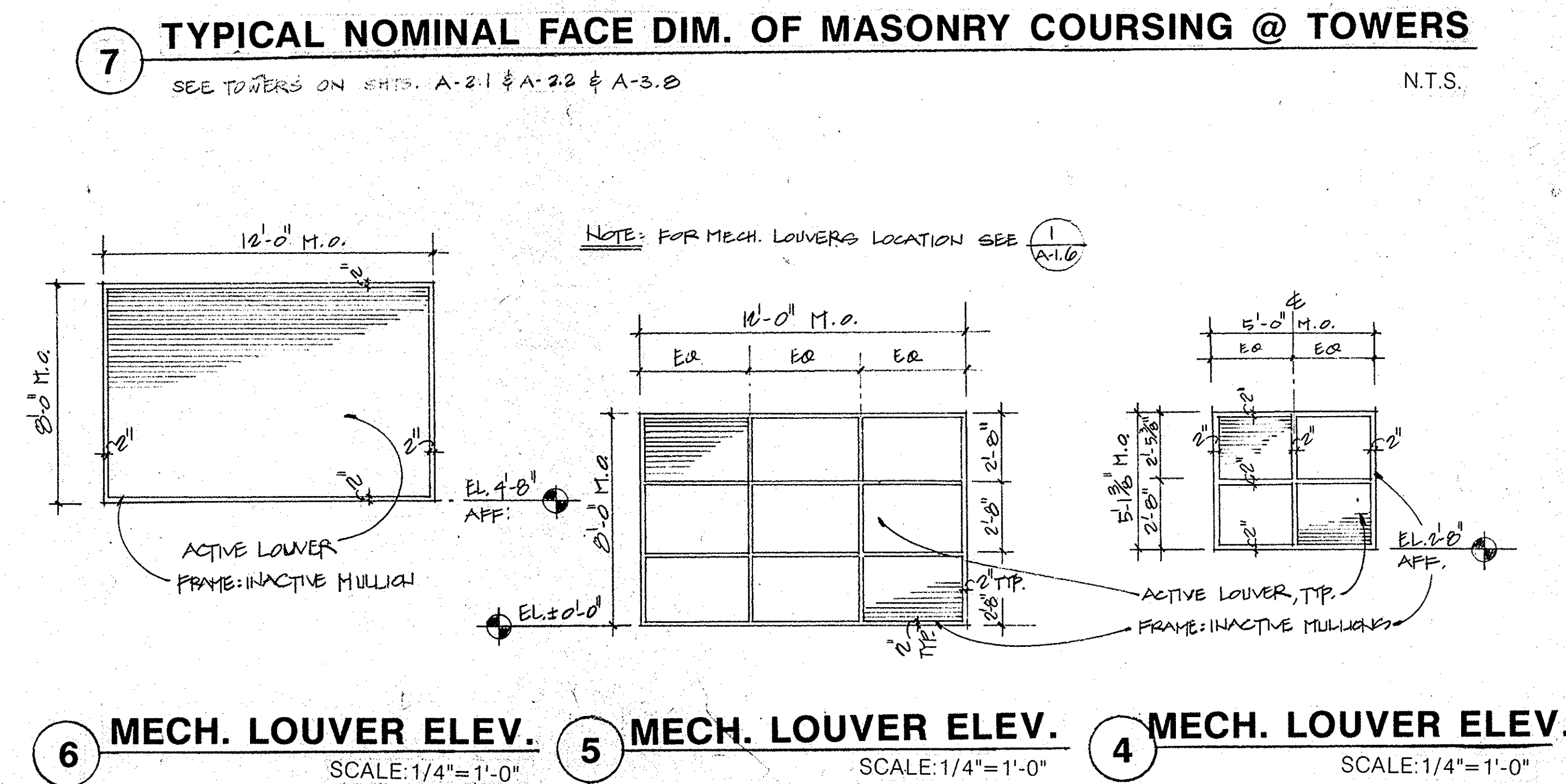
**1 CROSS SECTION @ SKYLIGHT TYPE 2**  
SCALE: 3/4" = 1'-0"



**TYPICAL NOTES**

- SECTIONS SHOWN ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE INDICED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTION SHALL BE ADAPTED TO ANY SECTION NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BID PERIOD.
- IN EXTERIOR CAVITY WALLS, AT ALL CONDITIONS WHERE THRU-WALL FLASHING (AS PER SPECIFICATIONS) DRAINS TO THE OUTSIDE THRU WEEPHOLES (AT 24" O.C. HORIZONTALLY), PROVIDE 4" CONTINUOUS LAYER OF WASHED #24 GRAVEL, INSTALLED DIRECTLY ABOVE THRU-WALL FLASHING TO PREVENT CLOGGING OF THE WEEP HOLES.

**11 PLAN @ 17'-0" AFF.** SCALE: 1/1/2"=1'-0"  
**10 PLAN @ 4'-0" AFF.** SCALE: 1/1/2"=1'-0"  
**13 PLAN @ 19'-4" AFF.** SCALE: 1/1/2"=1'-0"  
**14 PLAN @ 16'-8" AFF.** SCALE: 1/1/2"=1'-0"



**1A FRAMING DETAIL** SCALE: 1/1/2"=1'-0"  
**1 LATERAL SECTION** SCALE: 3/4"=1'-0"  
**2 CROSS SECTION** SCALE: 3/4"=1'-0"  
**3 SECTION THRU. MECH. MEZZ.** SCALE: 3/8"=1'-0"

GRILLE: 10'-8" HIGH x 12'-0" WIDE  
 MOTOR: SEE SPECIFICATIONS

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**A-3.12**  
 BID SET  
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FINISH SCHEDULE

Table with columns: RM. NO., SPACE, COL. SCHED., FLR. BASE, WALLS, CEILING, MAT. HGT., \*REMARKS, NUMBERED FINISH NOTES. Rows include office, storage, kitchen, restrooms, etc.

FINISH SCHEDULE MATERIAL KEY:

Text detailing material specifications and construction notes. Includes sections for Floor Materials, Wall Materials, Ceiling Materials, and Numbered Finish Notes.

DOOR SCHEDULE

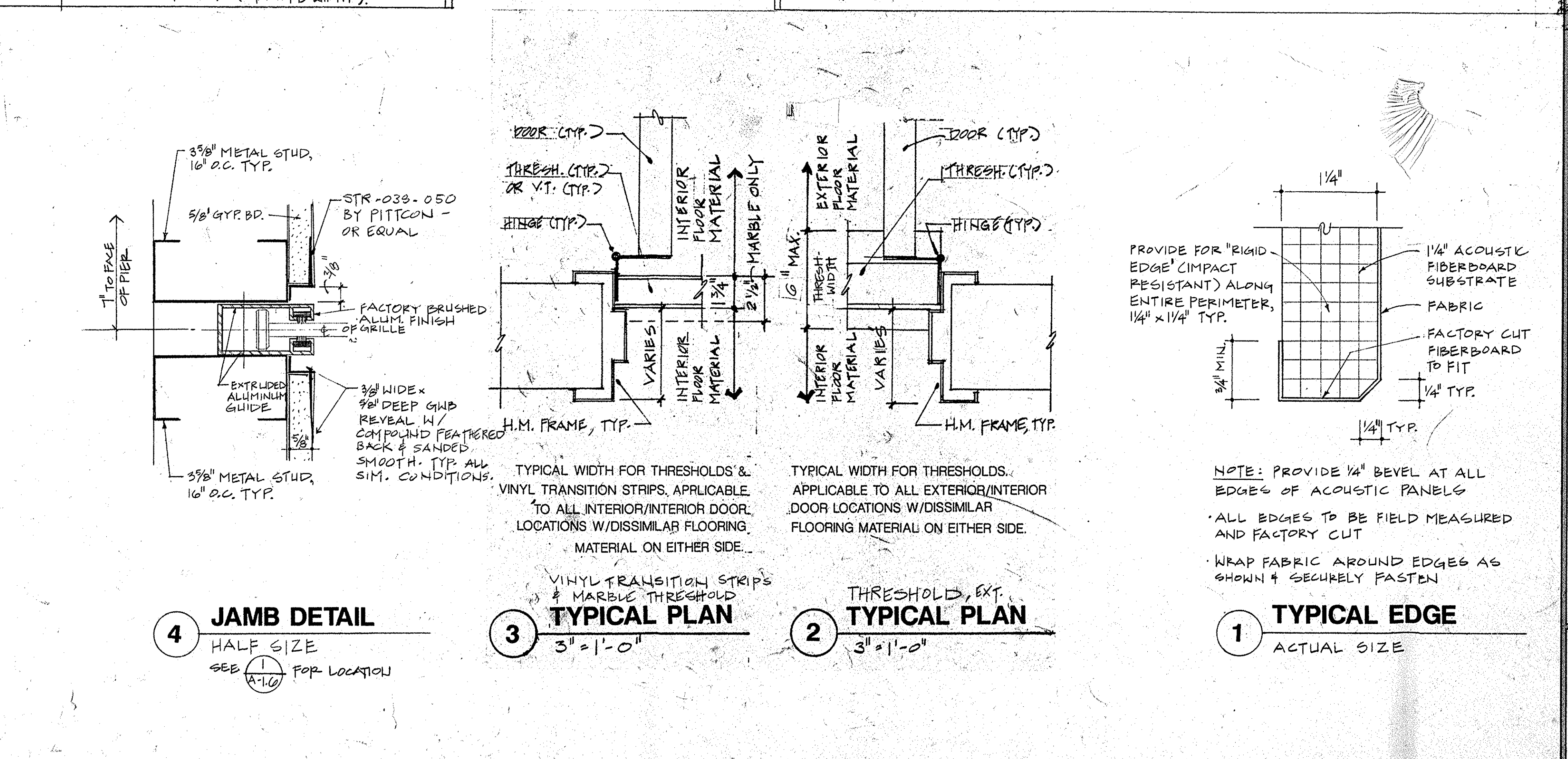
Table with columns: OPNG. NO., DOOR NOMINAL SIZE, FRAME SECTION, DOOR LAB./FIRE RATING, HROW. SET, \*REMARKS. Lists door types and materials.

DOOR SCHEDULE

Table with columns: OPNG. NO., DOOR NOMINAL SIZE, FRAME SECTION, DOOR LAB./FIRE RATING, HROW. SET, \*REMARKS. Lists door types and materials.

KEY: NO PETAL PROVIDED / REQUIRED. USE TYPICAL PETAL (J-1, 2, 3 & H-1, 2). GILLS: PROVIDE VINYL TRANSITION STRIP...

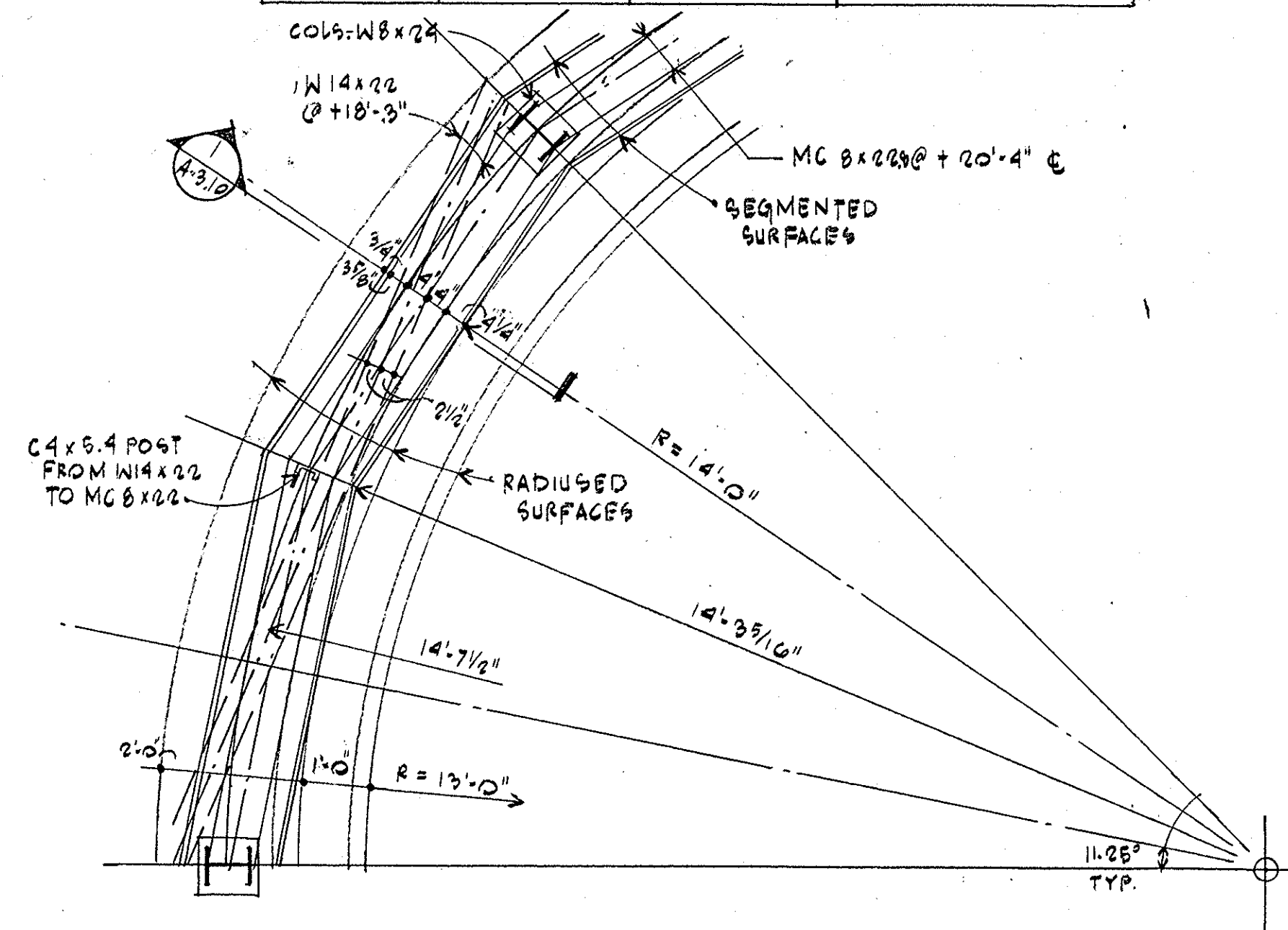
NOTE: HARDWARE SETS #12 & #14 (PUBLIC TOILET DOORS) HAVE DEADLOCKS. PANIC HARDWARE IS SPECIFIED AT HW. SETS #2, #9, #10, & #11.



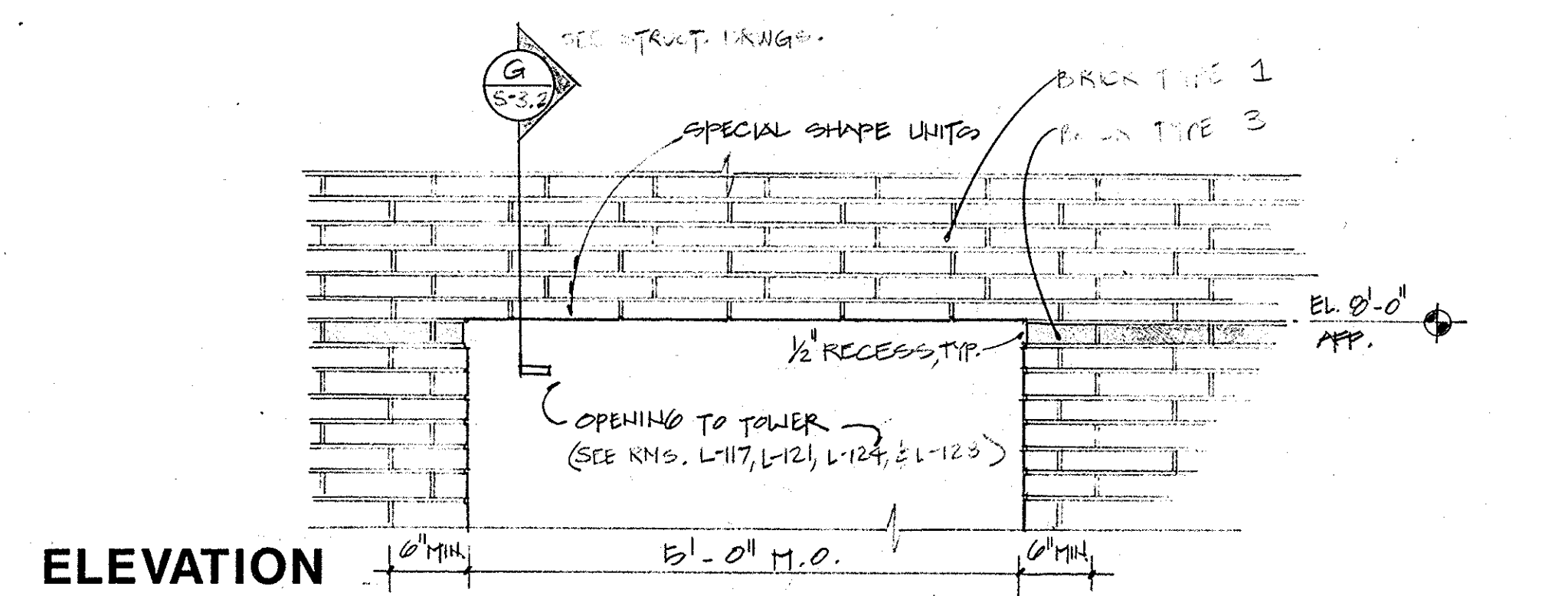
**KEY SYMBOL □ ELECTRO-SHADE SCHEDULE**

SEE REFLECTED CEILING PLAN: SHT. A-6.1 FOR LOCATIONS

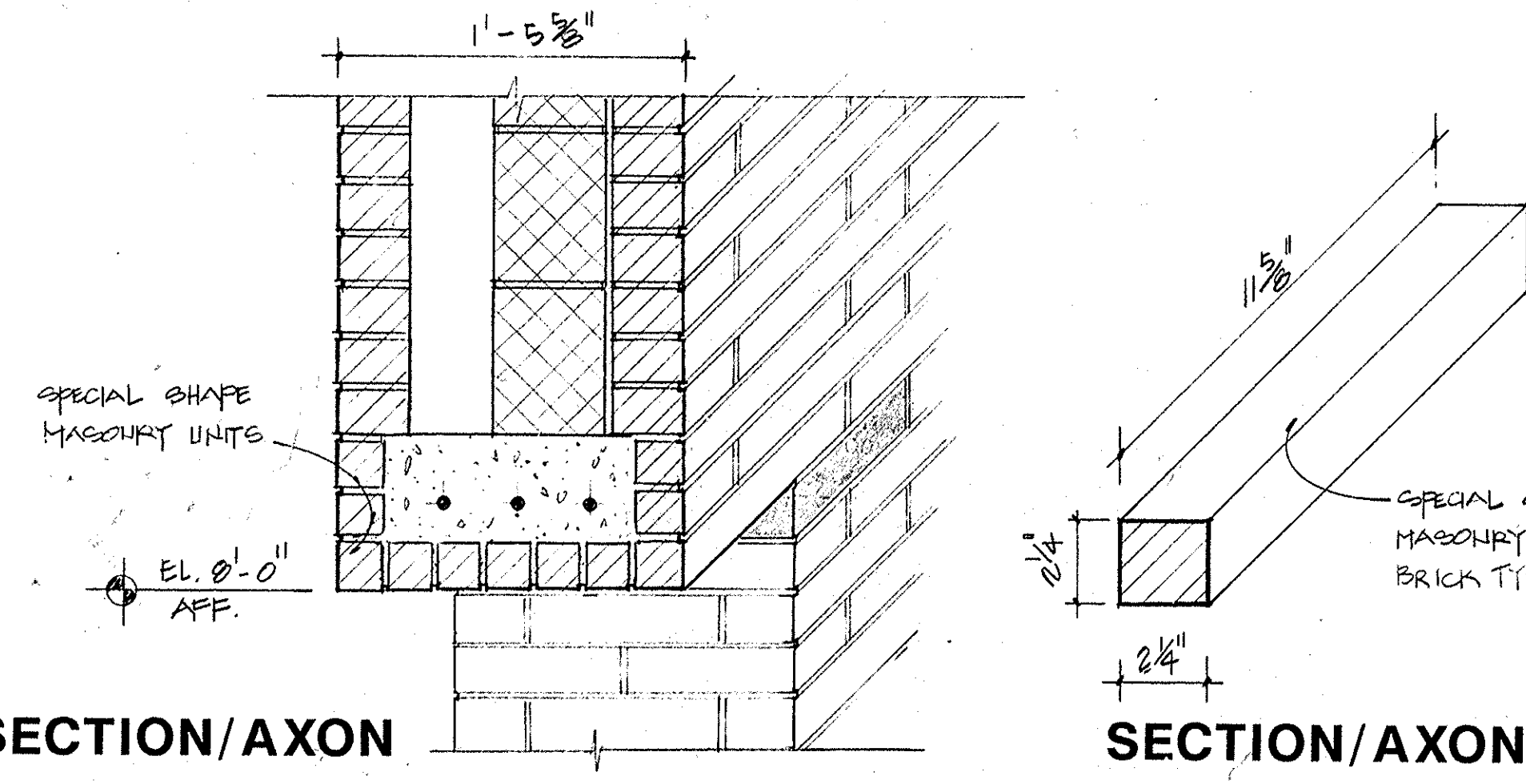
SHADE #	WIDTH	HEIGHT	REMARKS:
ES-1 THRU 9	9'-0"± V.I.F.	18'-8"	PRE-PROGRAMMED, W/ MANUAL OVERRIDE
ES-10 THRU 18	8'-6"± V.I.F.	18'-8"	PRE-PROGRAMMED, W/ MANUAL OVERRIDE
ES-19 THRU 27	8'-0"± V.I.F.	18'-8"	PRE-PROGRAMMED, W/ MANUAL OVERRIDE
ES-28 ES-29 ES-38 ES-37	12'-9"± V.I.F.	2'-6"	ELECTRO SHADES: MANUALLY CONTROLLED
ES-30	7'-0"±	2'-6"	ELECTRO SHADES: MANUALLY CONTROLLED
ES-31 ES-32 ES-33 ES-34 ES-35	9'-6"± 7'-0"± 9'-0"± 8'-0"± 8'-6"±	18'-8"± 18'-8"± 18'-8"± 18'-8"± 18'-8"±	ELECTRO SHADES: MANUALLY CONTROLLED
ES-36	13'-0"±	2'-6"	ELECTRO SHADES: MANUALLY CONTROLLED



**12 PLAN DTL. FOR RADIUSSED & SEGMENTED SURFACES**  
SCALE: 1/2" = 1'-0"



**ELEVATION**

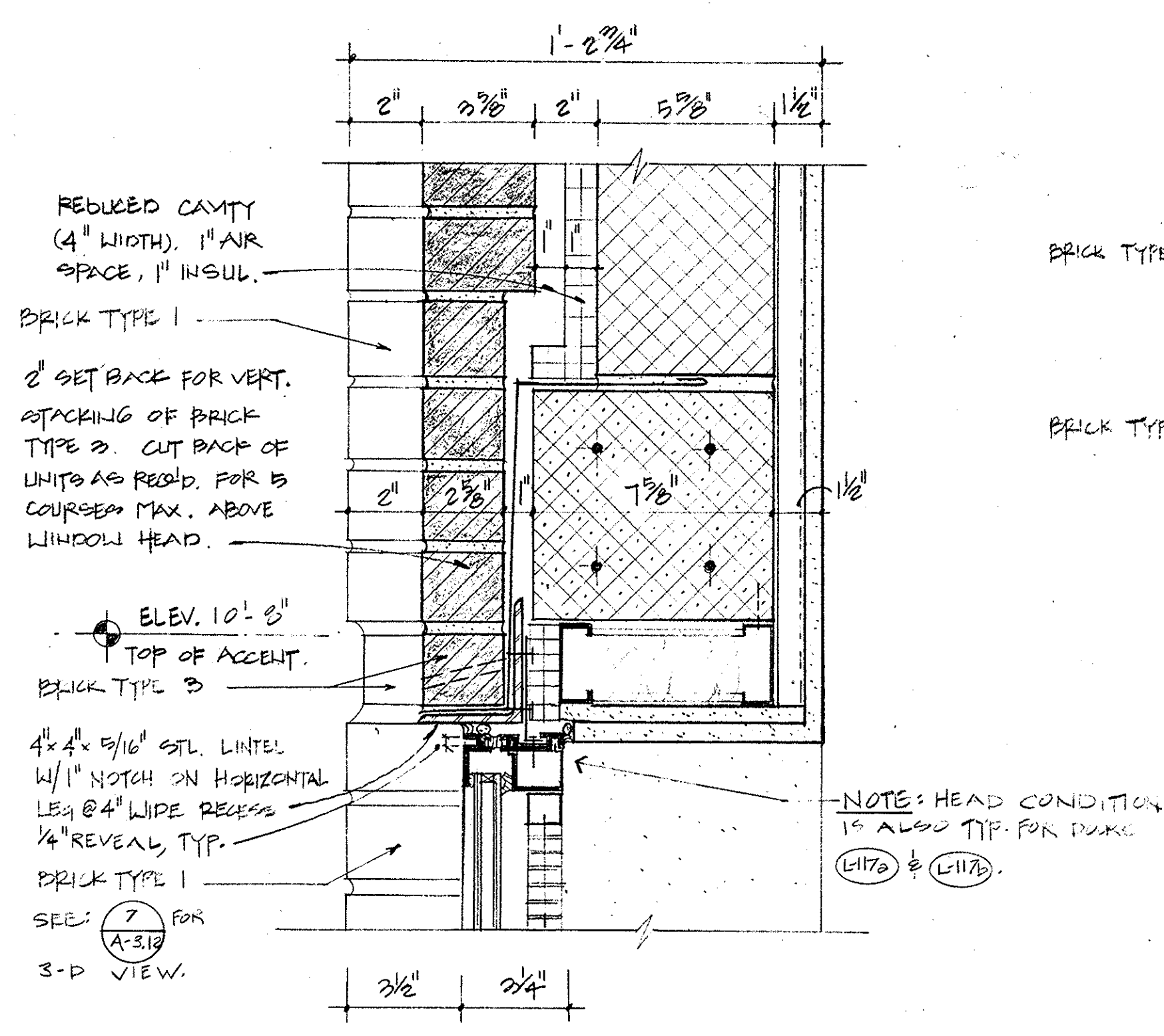


**SECTION/AXON**

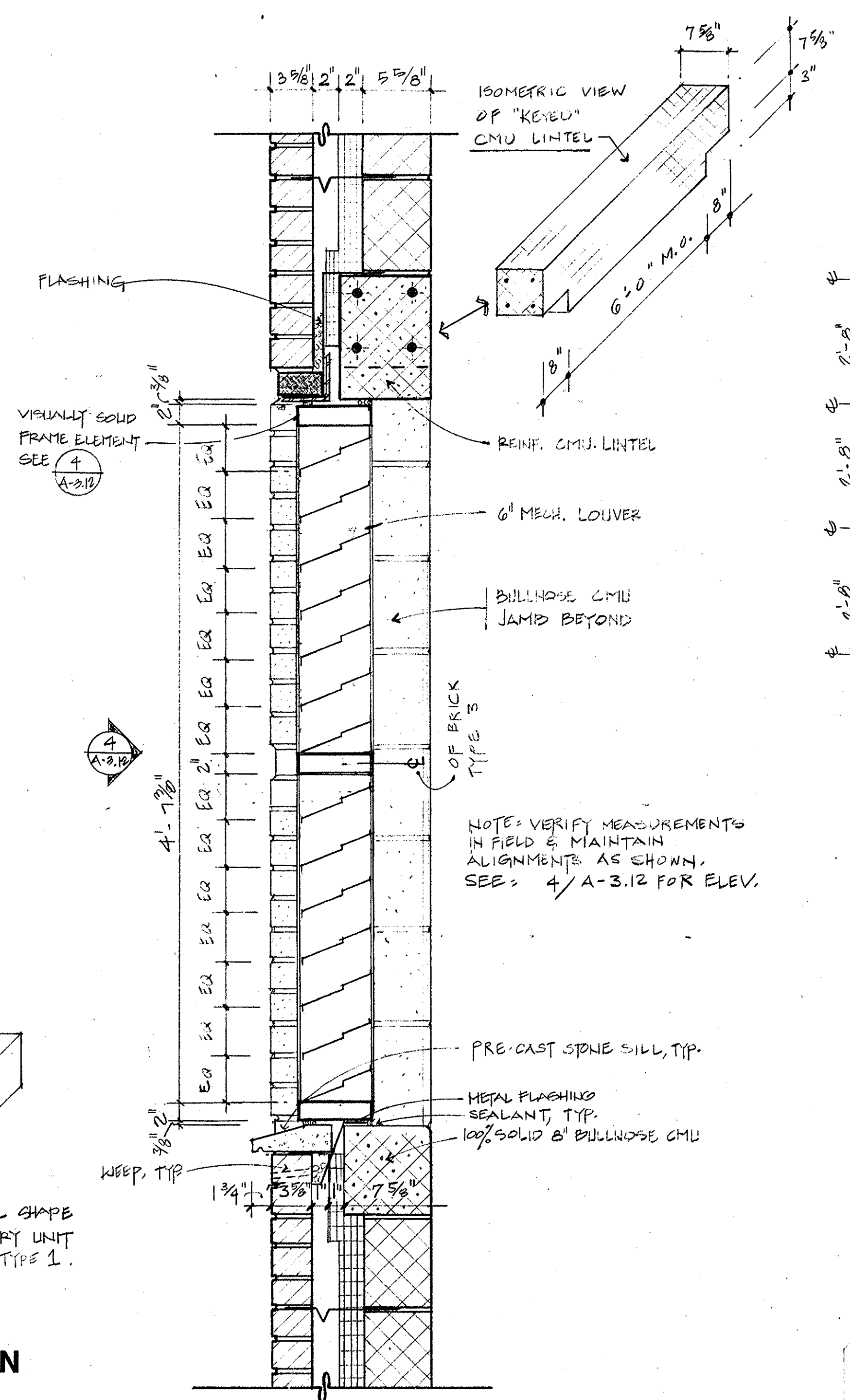
**SECTION/AXON**

NOTE: SEE STRUCT DRAWING S-33 FOR LINTEL DETAILS.

**11 SPECIAL SHAPE MAS. UNITS DETAIL**  
SCALE: 1 1/2" = 1'-0"

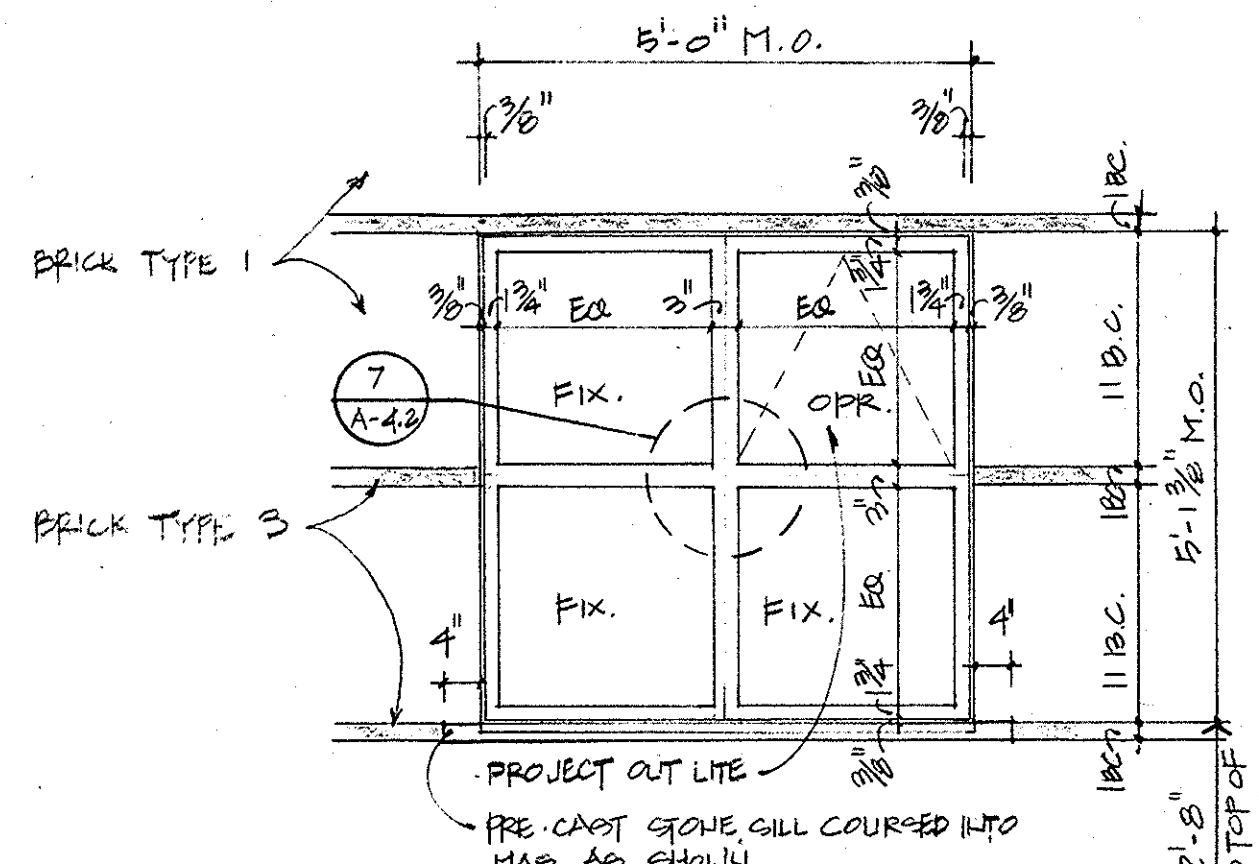


**9 WINDOW HEAD @ TOWERS MAS. SETBACK**  
SCALE: 3" = 1'-0" REPEAT APPLICABLE NOTES FROM DETAIL 1/A-4.2.

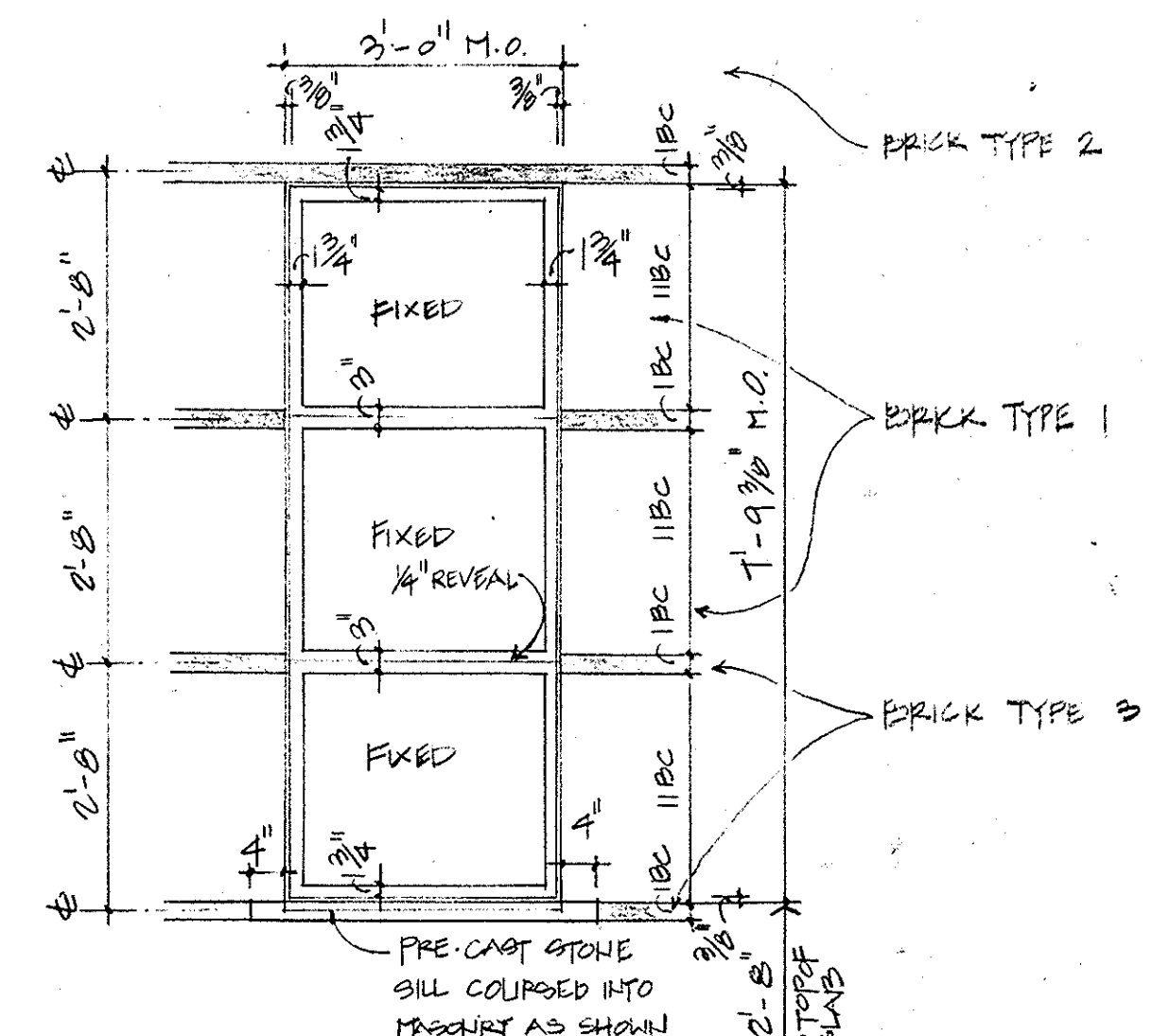


**10 MECH. LOUVER: HEAD & SILL**  
SCALE: 1 1/2" = 1'-0"

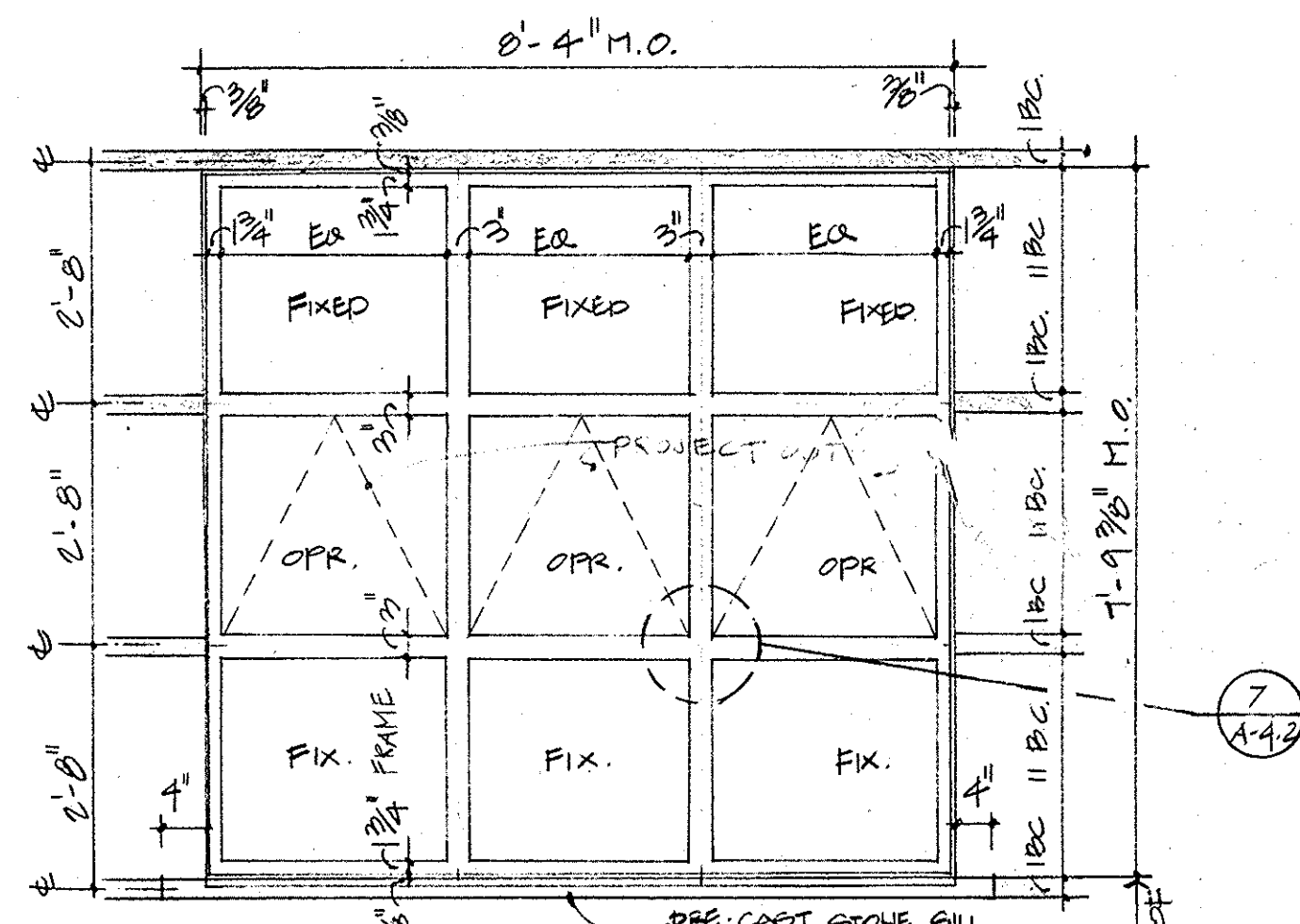
**WINDOW TYPES**



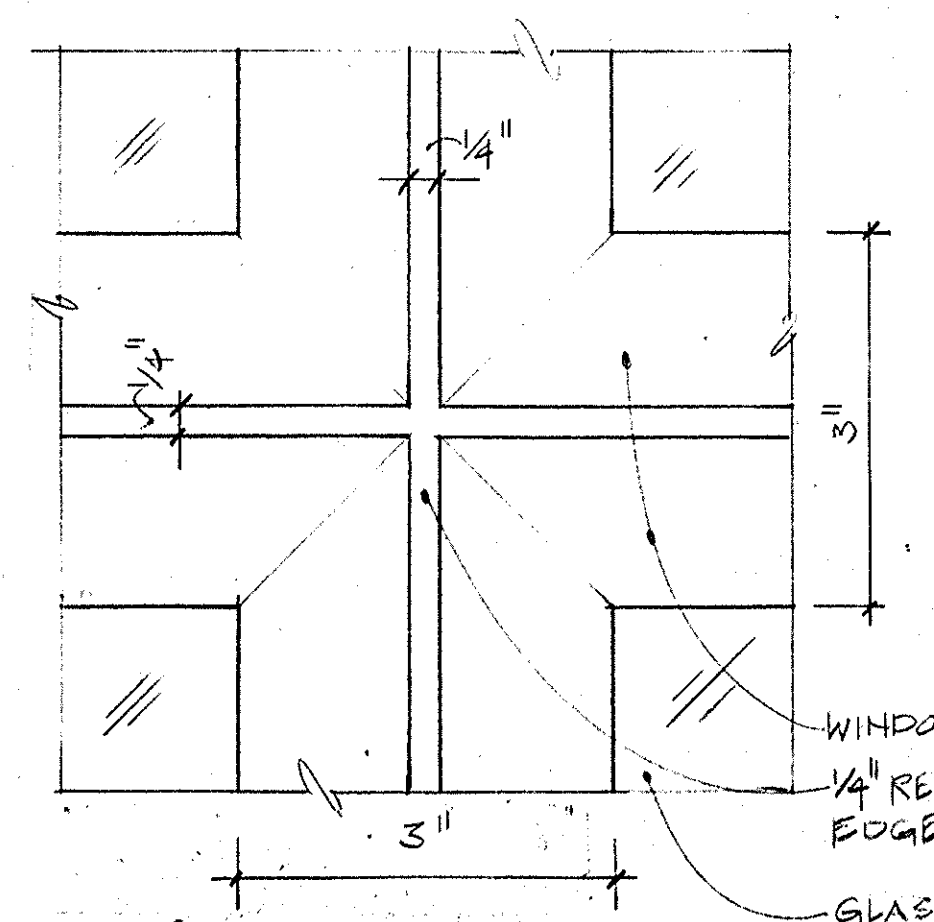
**4 WINDOW TYPE**  
SCALE: 1/2" = 1'-0"



**5 WINDOW TYPE**  
SCALE: 1/2" = 1'-0"

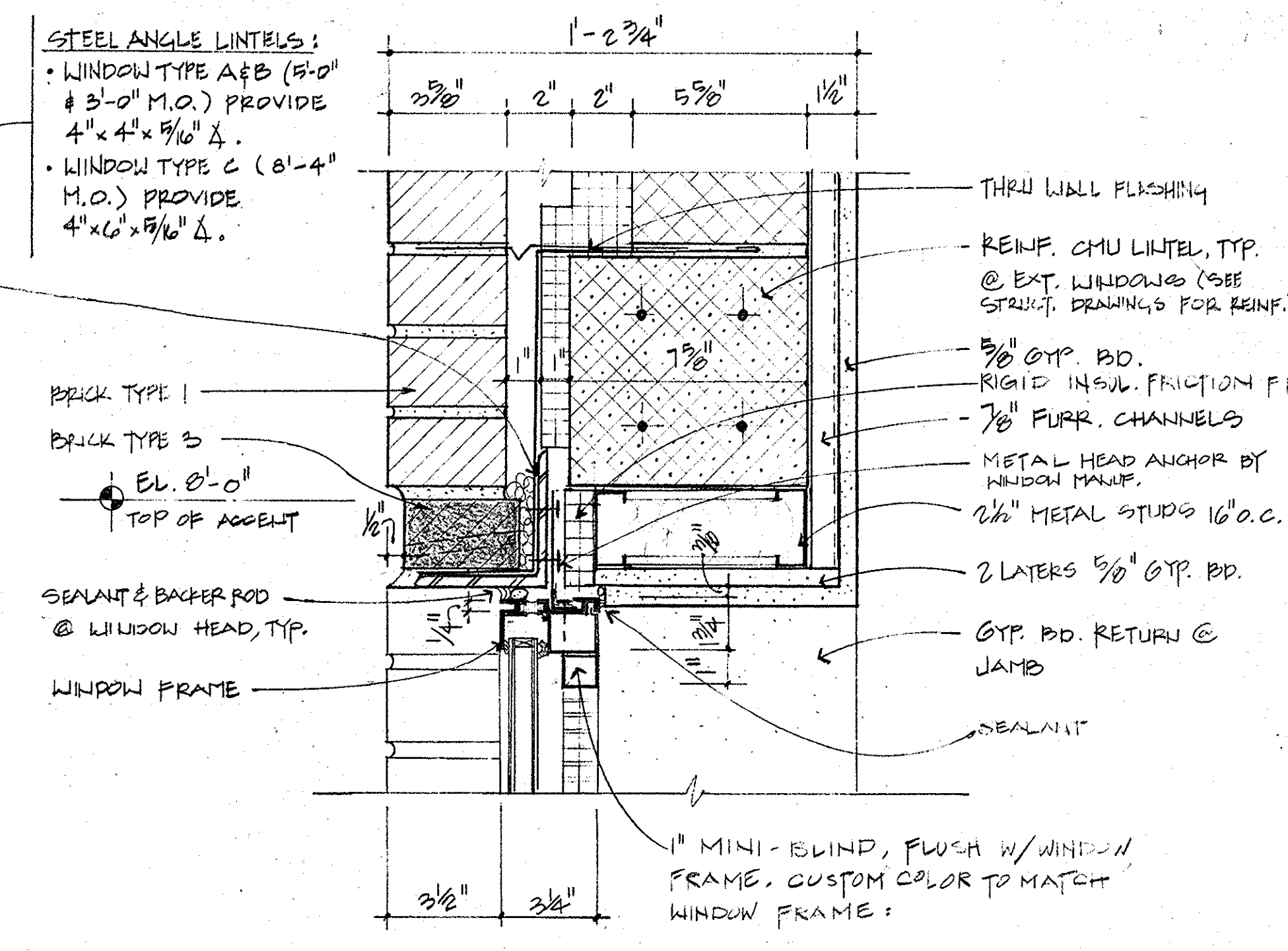


**6 WINDOW TYPE**  
SCALE: 1/2" = 1'-0"

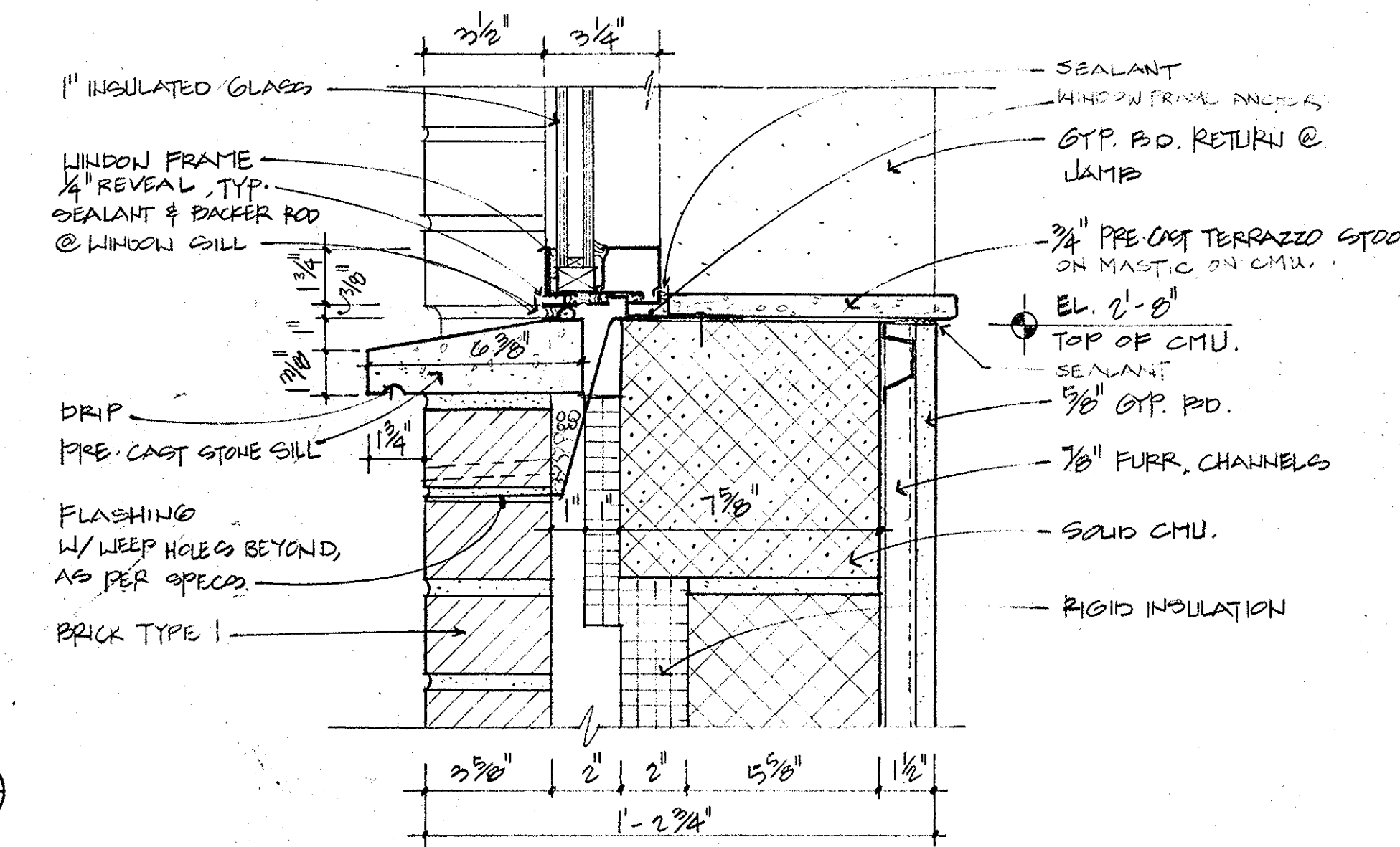


**REVEAL ELEV.**  
SCALE: N.T.S.

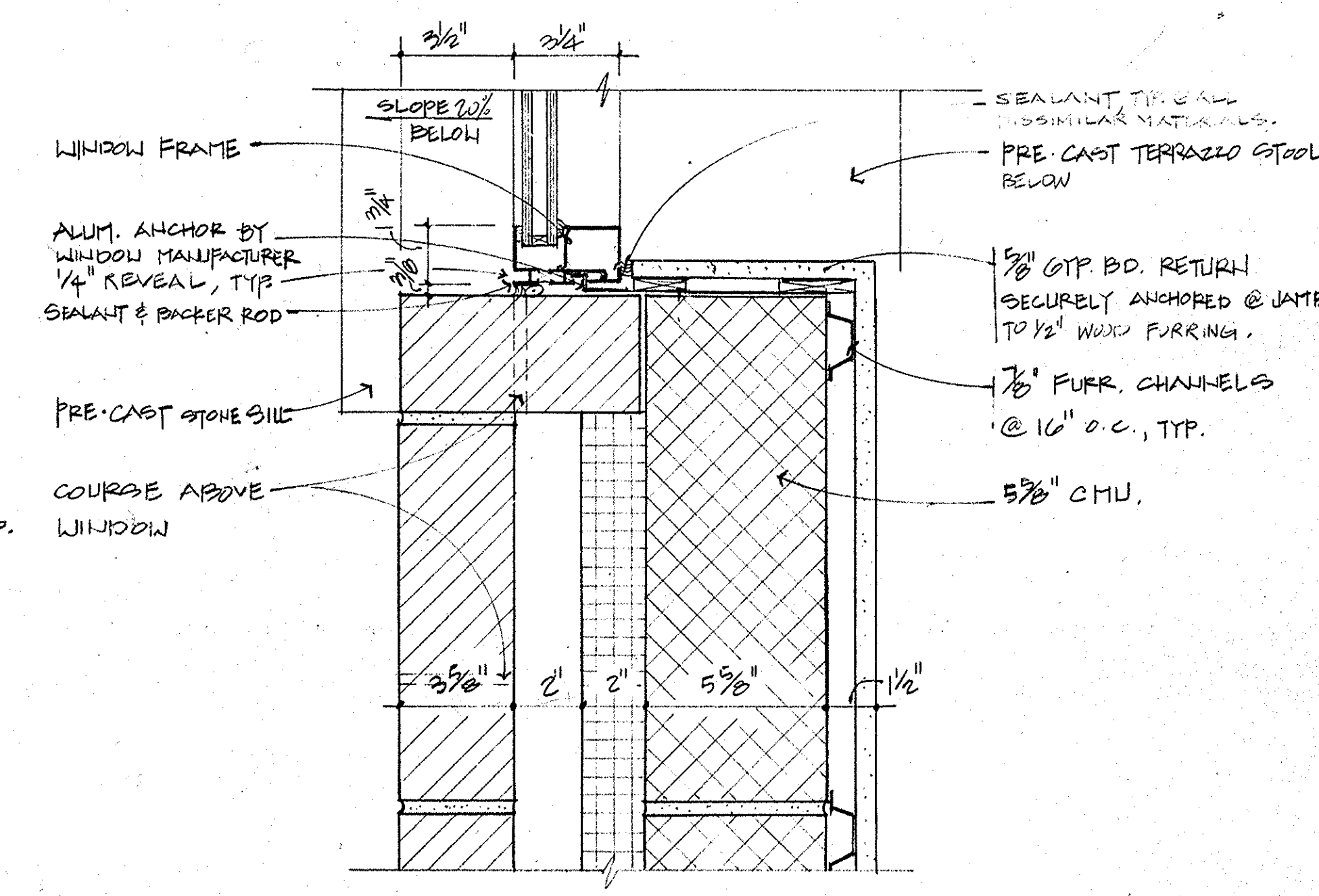
- NOTES: WINDOW TYPES**
- ROUGH OPENINGS OR MASONRY OPENING DIMENSIONS ARE SHOWN. CONTRACTOR SHALL VERIFY ALL ROUGH OPENINGS PARTICULARLY ROUGH OPENINGS AT SUSPENDED FLARE HEADS AND STEEL ANGLES.
  - CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL WINDOWS. VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS. INCLUDING DETAILS SHOWN ON SHEETS OTHER THAN A-4.2.
  - SEAL ALL SIDES OF WINDOWS AND SUBFRAMES ABUTTING DISSIMILAR MATERIALS, TYPICAL AT HEAD JAMB AND SILL. PROVIDE APPROPRIATE ANCHORS TO SECURE SYSTEM.



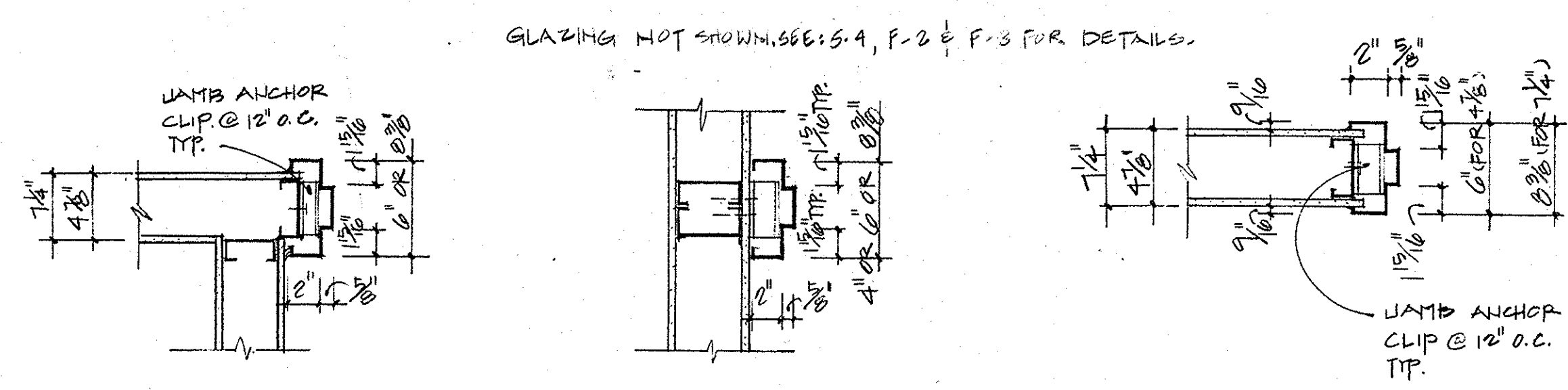
**1 WINDOW HEAD (TYP.)**  
SCALE: 3" = 1'-0"



**2 WINDOW SILL TYPICAL**  
SCALE: 3" = 1'-0"

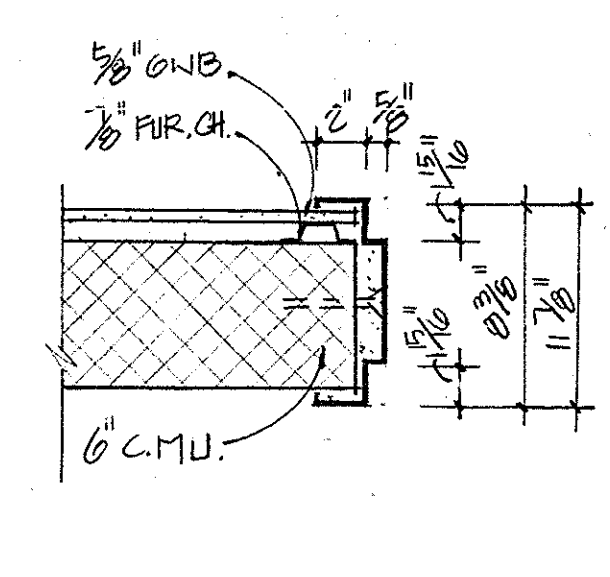


**3 WINDOW JAMB TYPICAL**  
SCALE: 3" = 1'-0"



**J-1,2,3 TYPICAL JAMBS**  
SCALE: 1 1/2" = 1'-0"

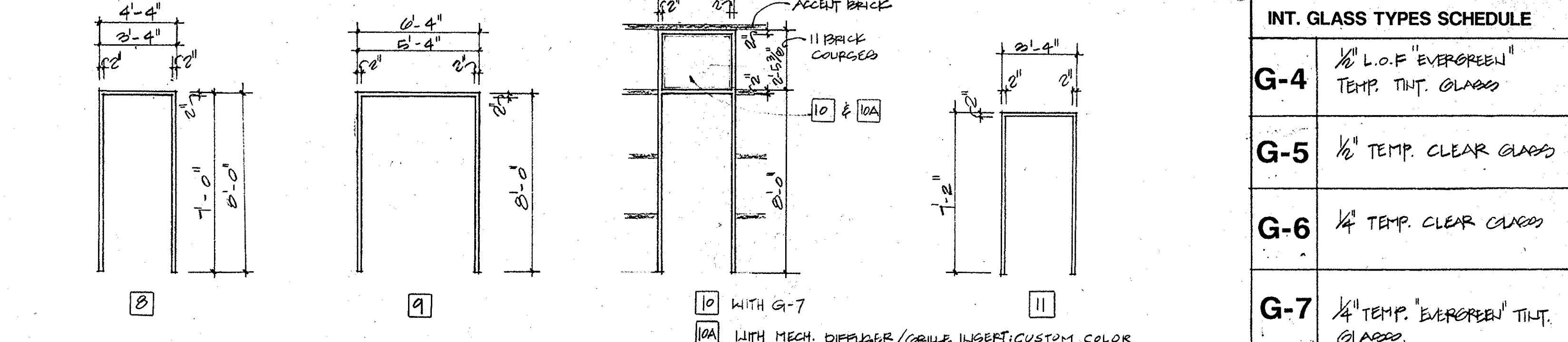
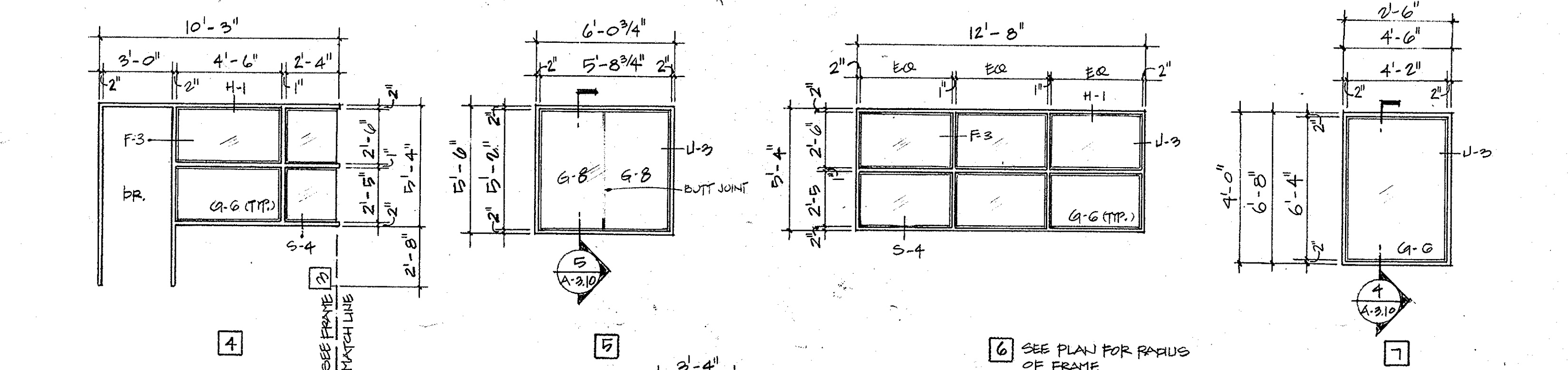
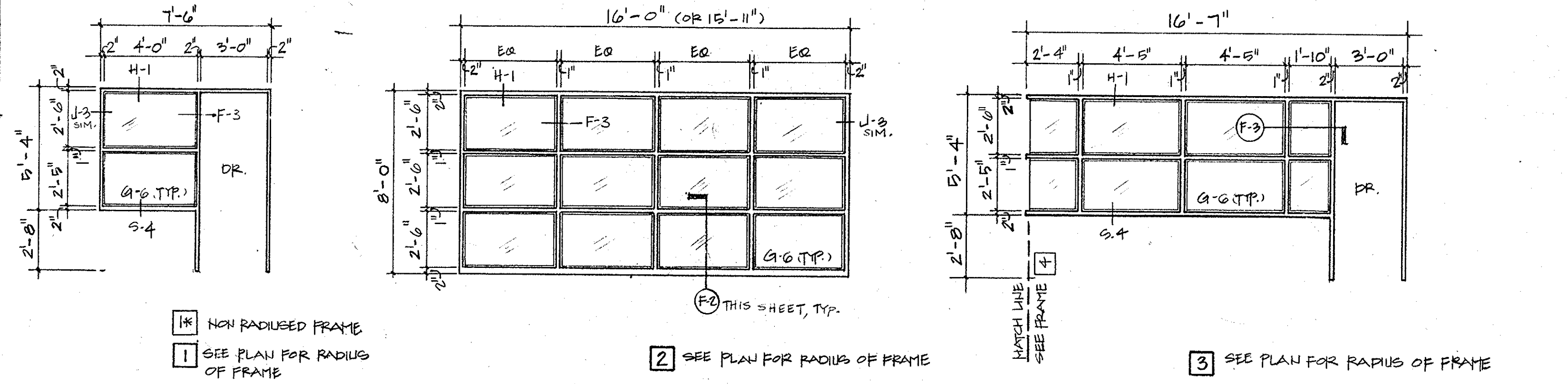
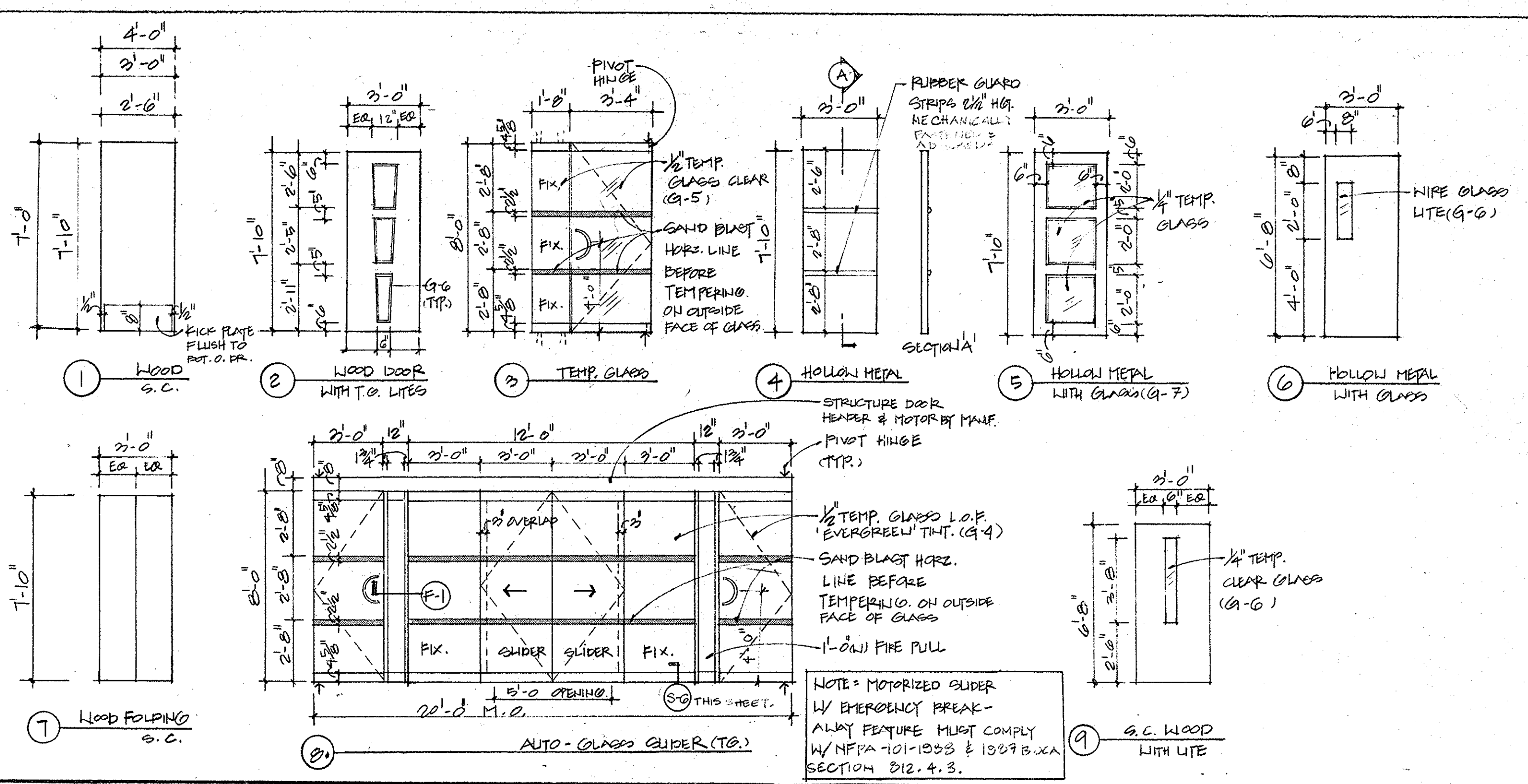
NOTE: PROVIDE GLAZING & HOLLOW METAL STRIPS IN SECT. IT FRAME TYPE ELEVATION & FRAME SECTION.



**J-4 JAMB**

- TYPICAL DOOR NOTES**
- Provide hardware as specified or, if not specified provide hardware of equal quality to that specified) required for door to operate and appear as intended on drawings.
  - Provide brushed stainless steel kick plates on push side of doors with push bars and/or closer devices. Kick plate shall be inset 1/2" from each side of door, flush with bottom of door, and maximum 8" high or 1/2" below edge of glass light (if present).
  - All exposed hardware shall be brushed in finish and "silver" metallic in color (aluminum or steel).
  - When exposed clear finished wood doors are paired, care shall be taken to select matching grain type and color for each door in pair.

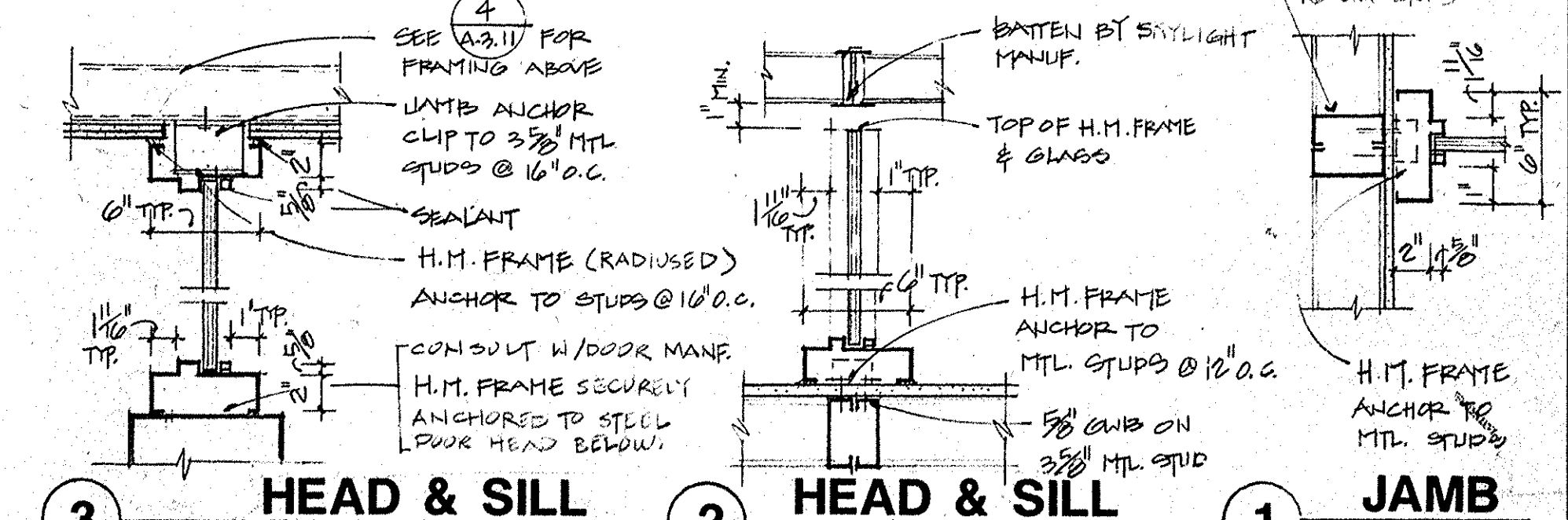
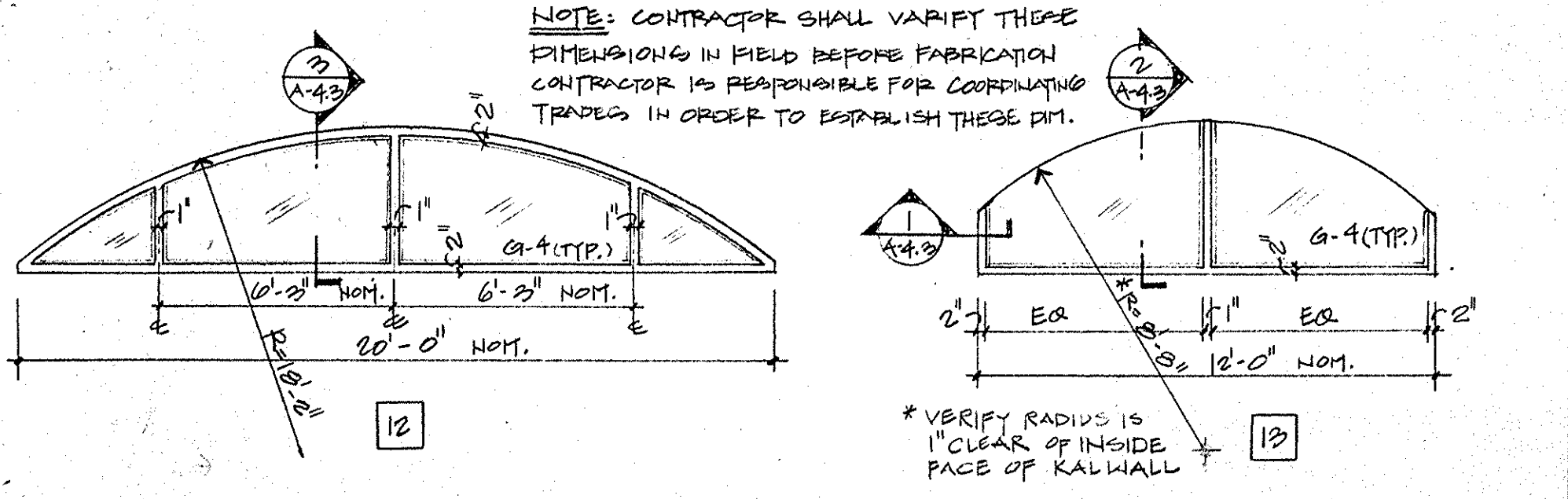
**DOOR TYPES**



**HOLLOW METAL FRAME TYPES** SEE HEAD, JAMB, FRAME, & SILL CONDITIONS ON THIS SHEET A-4.3.

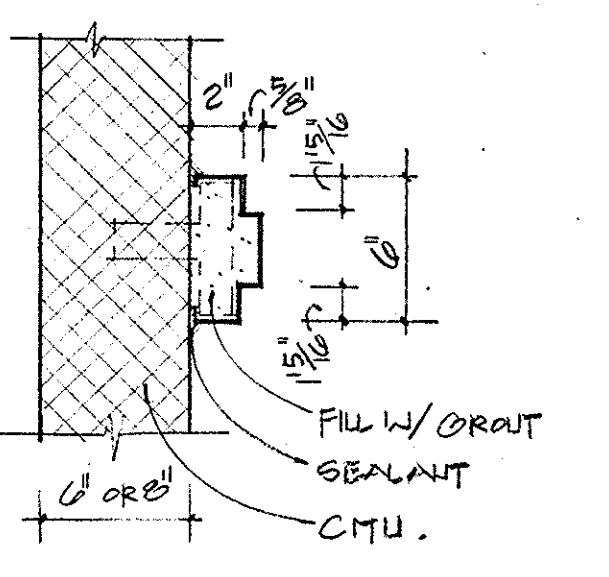
**NOTES: HOLLOW METAL FRAMES:**

- CONTRACTOR TO FIELD VERIFY AND COORDINATE WALL ROUGH OPENINGS WITH HOLLOW METAL FRAME SIZES.
- CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO FABRICATE AND INSTALL HOLLOW METAL FRAMES. VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS. INCLUDING DETAILS SHOWN ON SHEETS OTHER THAN A-4.3.
- SEAL ALL SIDES OF HOLLOW METAL FRAME ABUTTING DISSIMILAR MATERIALS. TYPICAL CONTINUOUS AT HEAD, JAMB, AND SILLS (EXCEPT AT DOOR SILLS U.N.O.).
- PROVIDE VERTICAL HOLLOW METAL FRAME EXTENSIONS/STIFFENERS (MAX. 6" O.C.) WHICH EXTEND FROM 1'-0" BELOW TOP OF FRAME (INSIDE VERTICAL MEMBERS) TO TOP STRUCTURAL MEMBER, TYPICAL.
- TYPICAL WIDTH OF RETURNS ON HOLLOW METAL FRAMES IS 1 1/2" AT HEADS, JAMBS & SILLS. CENTER SECTION OF FRAME VARIES IN WIDTH WITH RESPECTIVE WALL TYPE. SEE PLANS.
- FOR JAMB, HEAD, SILL, AND FRAME DETAILS SEE SHEET A-4.3 UNLESS OTHERWISE NOTED.
- FILL ALL HOLLOW METAL (HM) FRAMES ABUTTING MASONRY WITH GROUT. FILL INTERMEDIATE MEMBERS AS SHOWN IN DETAILS (TYPICAL).
- ALL FRAME ANCHORS AT JAMBS (SEE TYP. JAMB DETAIL) TO BE COUNTER SUNK, FILLED WITH PUTTY AND GROUND SMOOTH. ANCHOR WITH MACHINE SCREWS SET INTO EXPANSION SHIELDS.
  - USE 4 ANCHORS AT FRAMES UP TO 7' - 6" H.
  - USE 5 ANCHORS AT FRAMES 7' - 6" TO 8' - 0" H.
  - USE 1 ANCHOR FOR EACH 2' OF FRAME HEIGHT OF FRACTION THEREOF FOR FRAMES OVER 8' - 0" H.

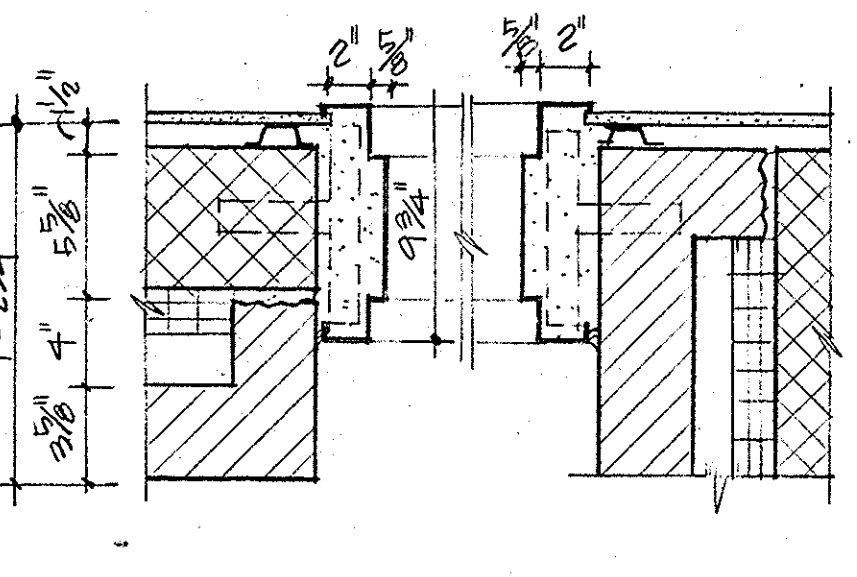


**INT. GLASS TYPES SCHEDULE**

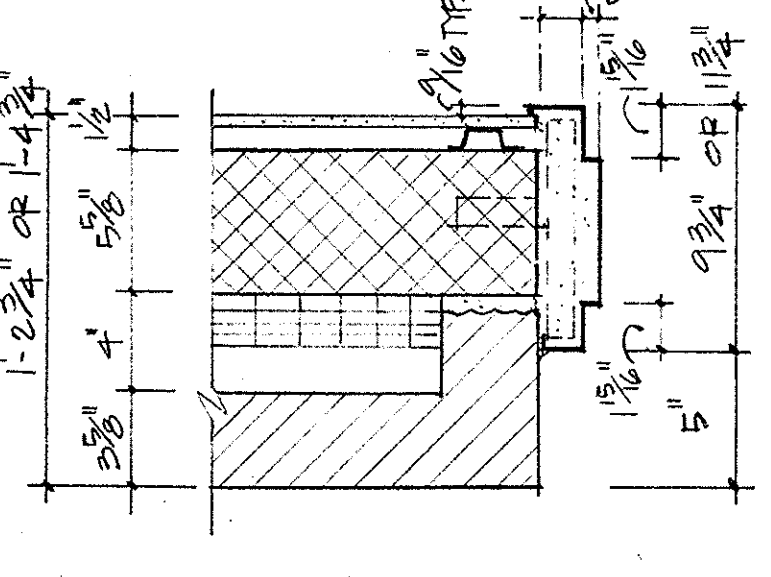
G-4	1/2" L.O.F. EVERGREEN™ TINT. GLASS
G-5	1/2" TEMP. CLEAR GLASS
G-6	1/4" TEMP. CLEAR GLASS
G-7	1/4" TEMP. EVERGREEN™ TINT. GLASS
G-8	2 LAYERS OF 3/16" LAM. GLASS W/GRAPHIC. SPECS.



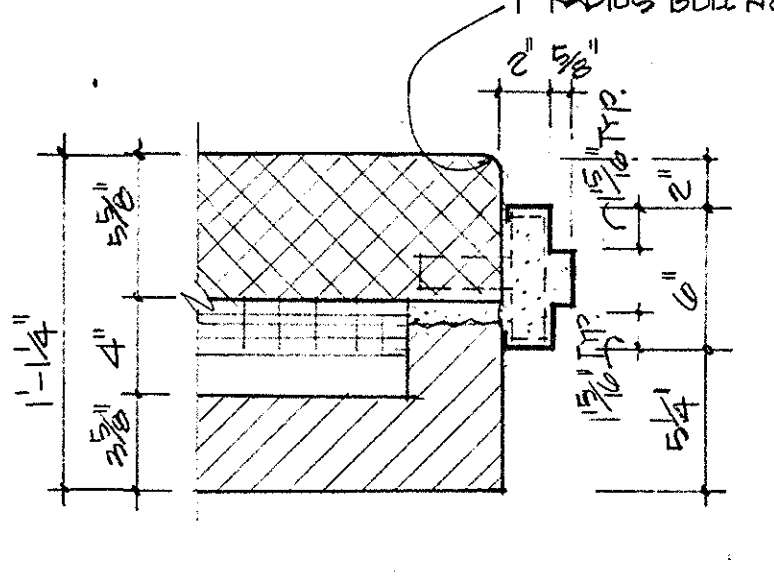
**J-5 JAMB**



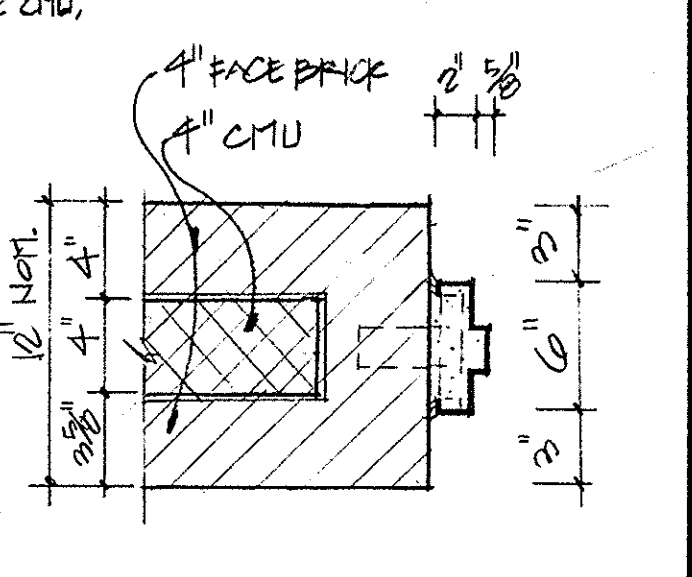
**J-6 JAMB**



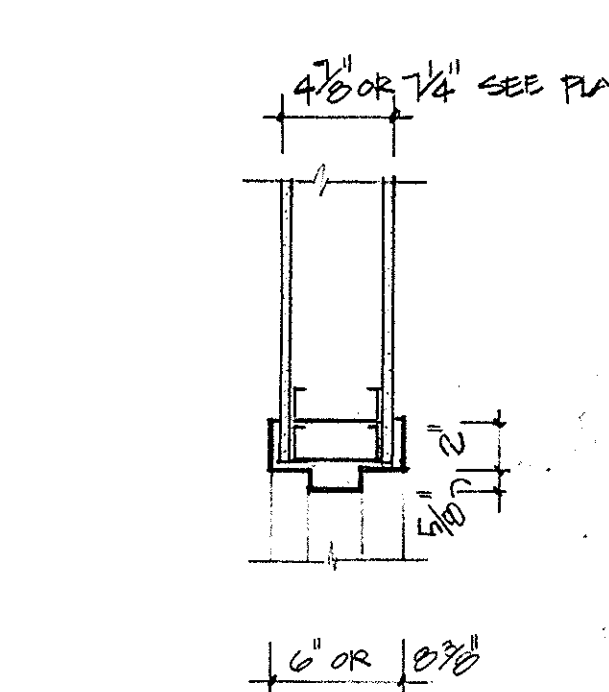
**J-7 JAMB**



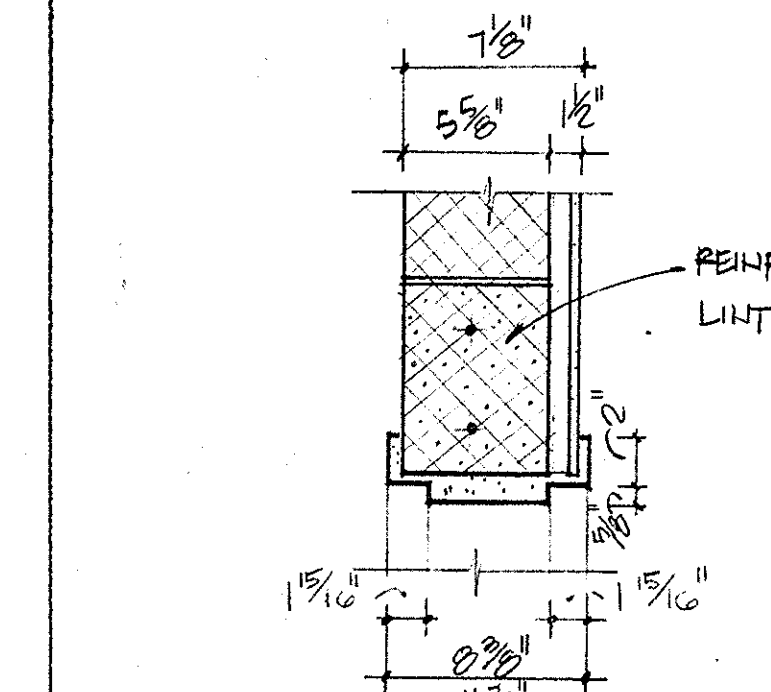
**J-8 JAMB**



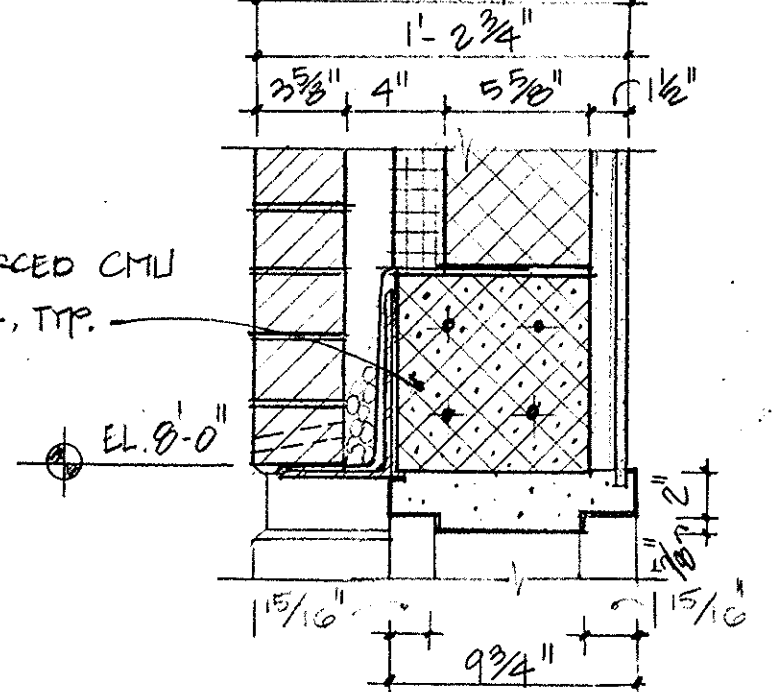
**J-9 JAMB**



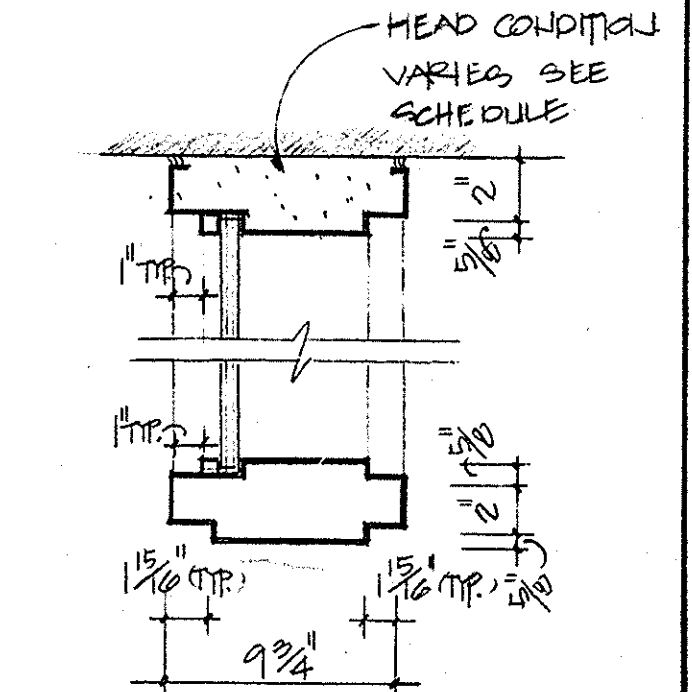
**H-1,2 TYPICAL HEADS**  
SCALE: 1 1/2" = 1'-0"



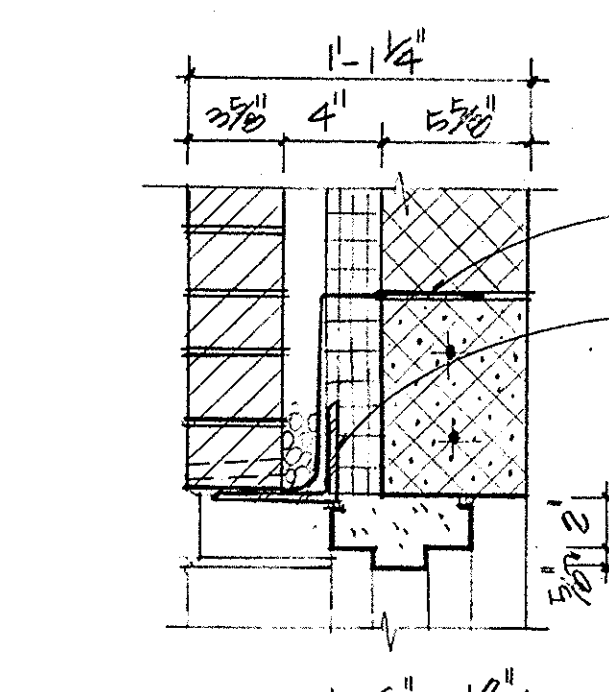
**H-3 HEAD**



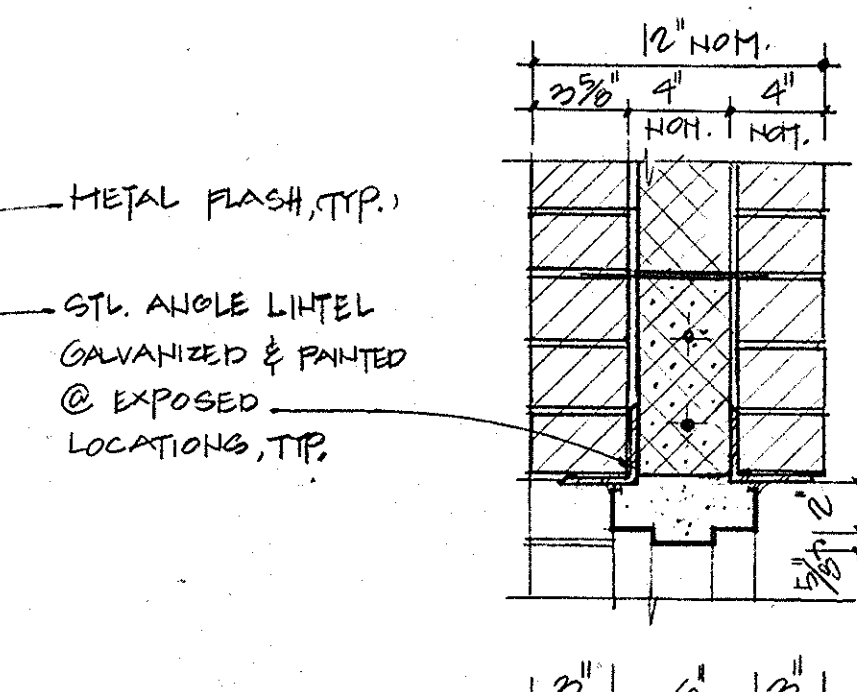
**H-4 HEAD**



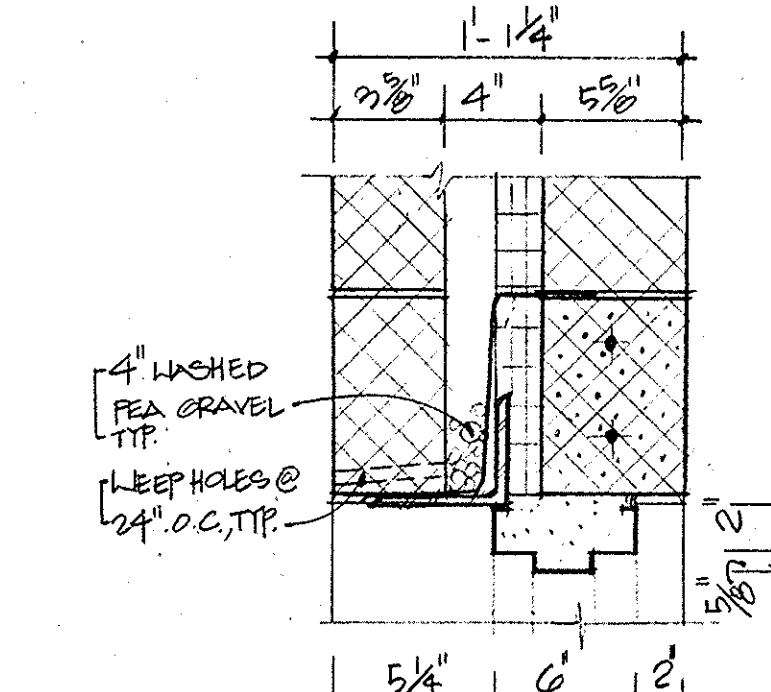
**H-4A TRANSOM**



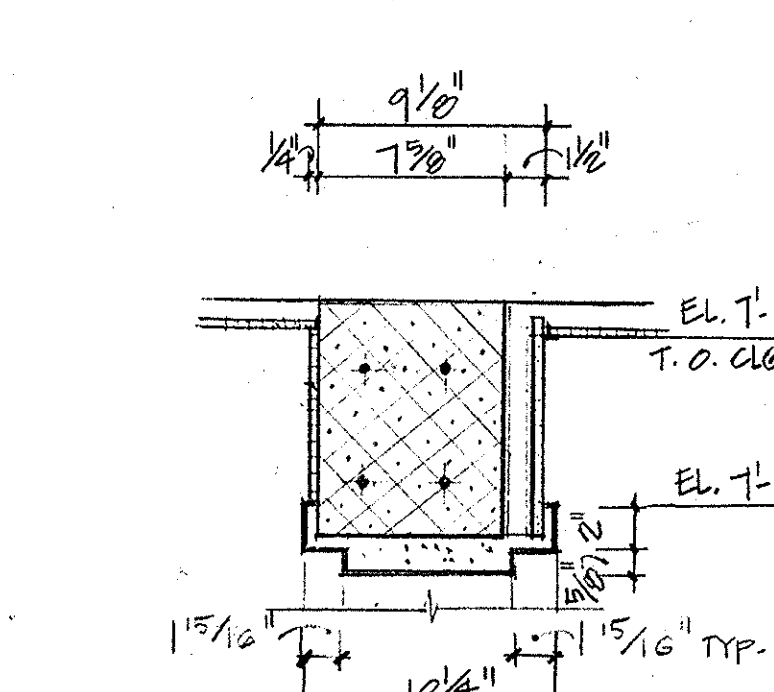
**H-5 HEAD**



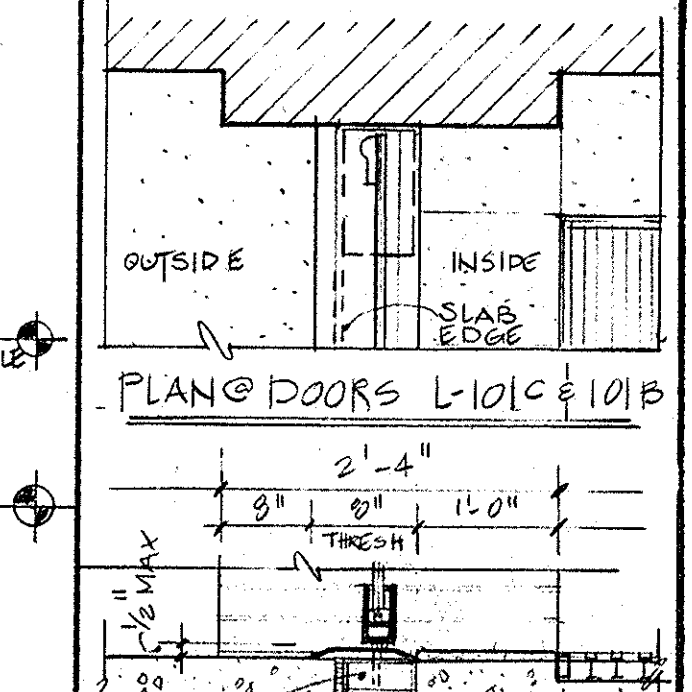
**H-6 HEAD**



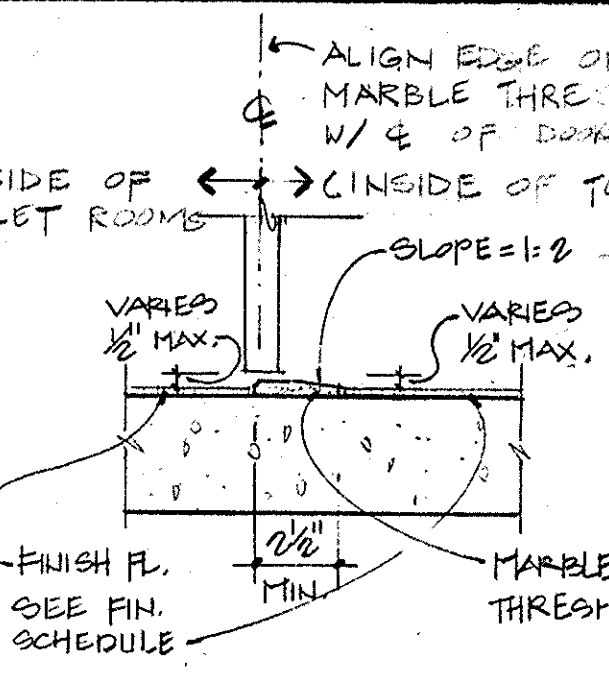
**H-7 HEAD**



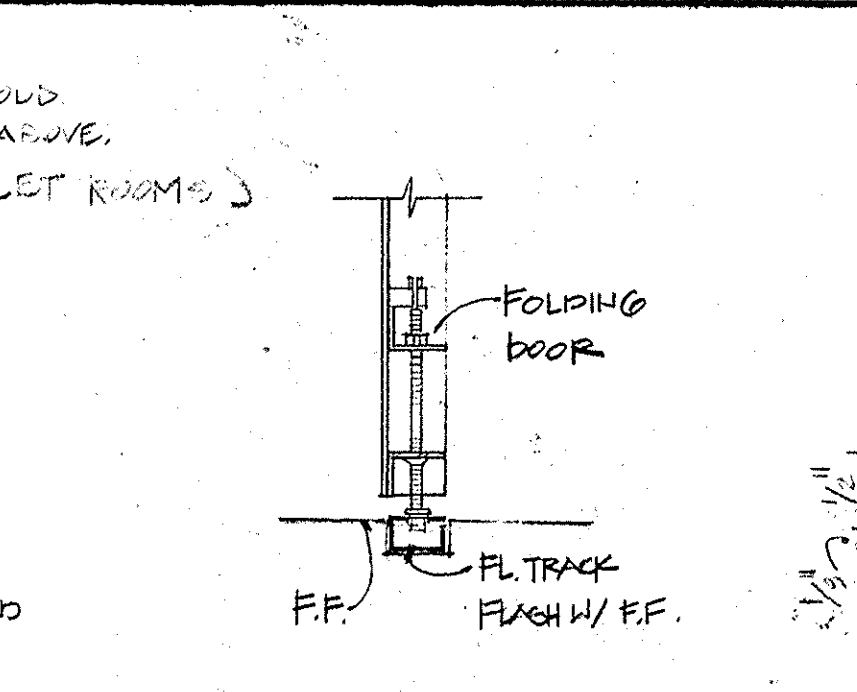
**H-8 HEAD**



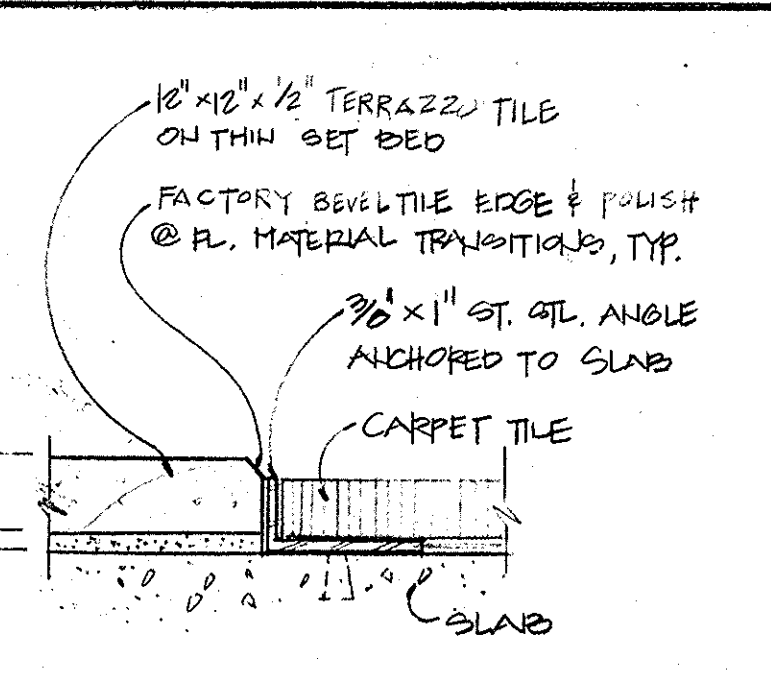
**S-8 RIXSON HINGE**



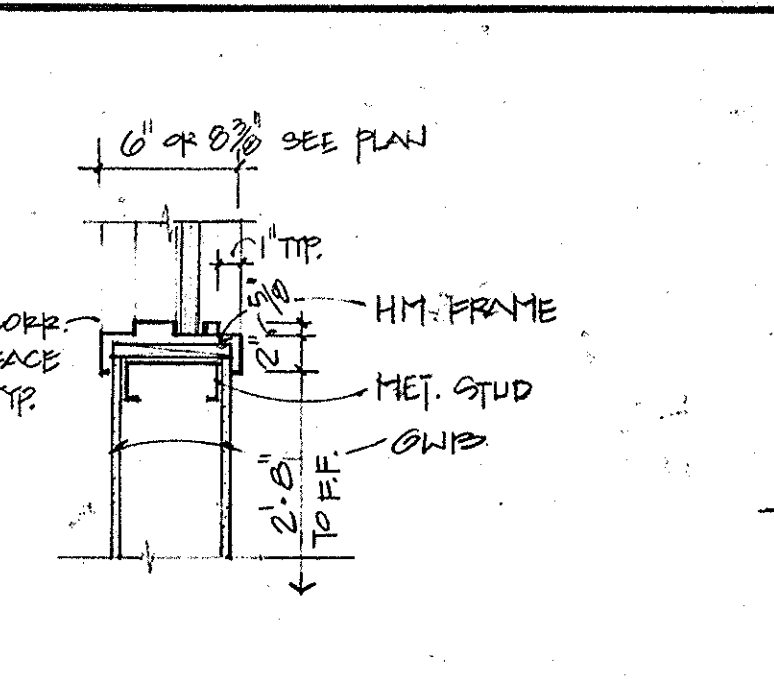
**S-1 TYPICAL FOR ALL MARBLE SILL**  
SCALE: 1 1/2" = 1'-0"



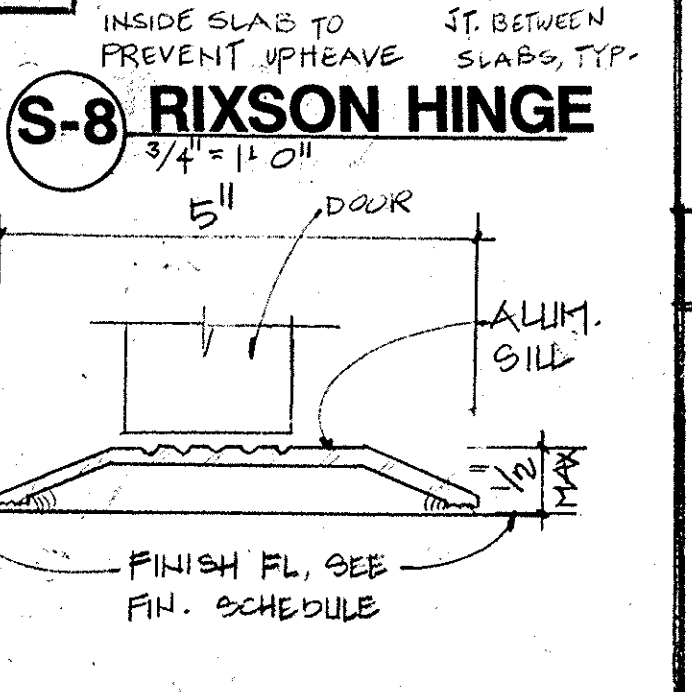
**S-2 DOOR SILL**  
N.T.S.



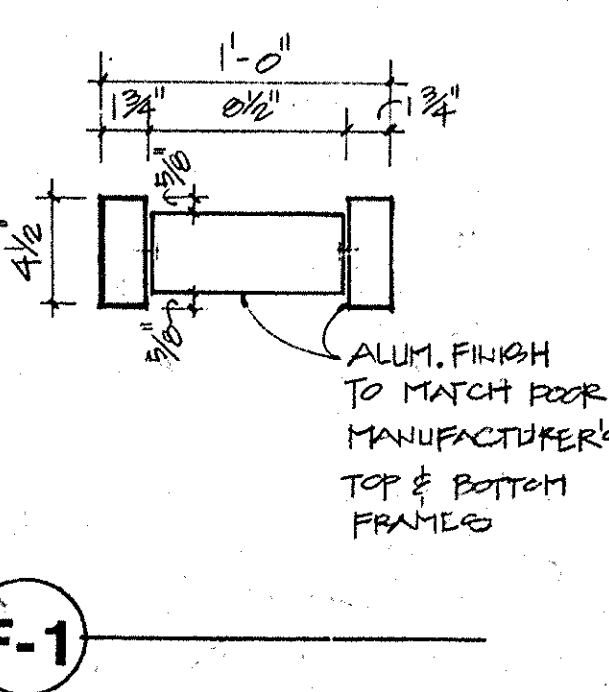
**S-3 FLOORING SILL**  
N.T.S.



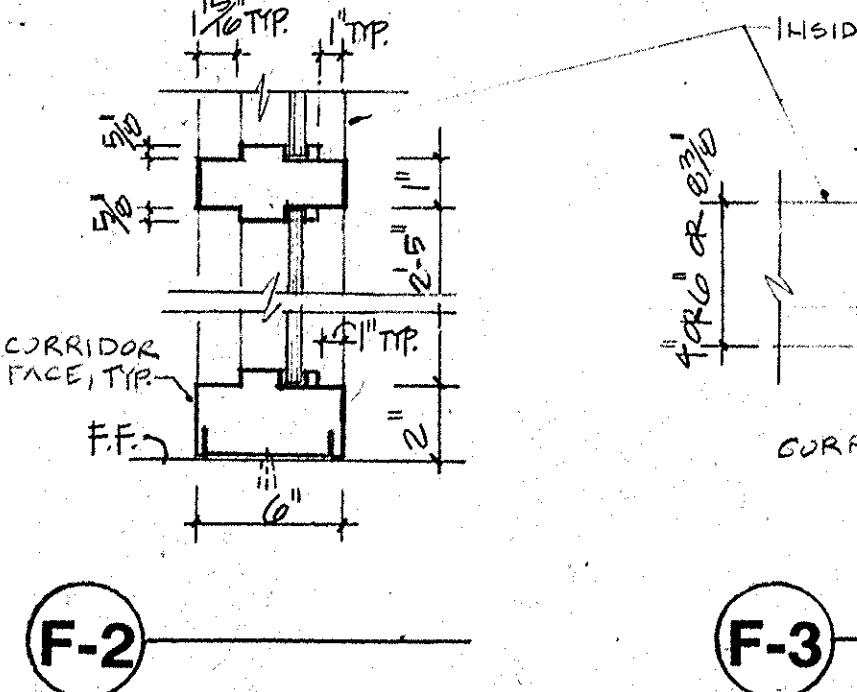
**S-4 H.M. SILL**



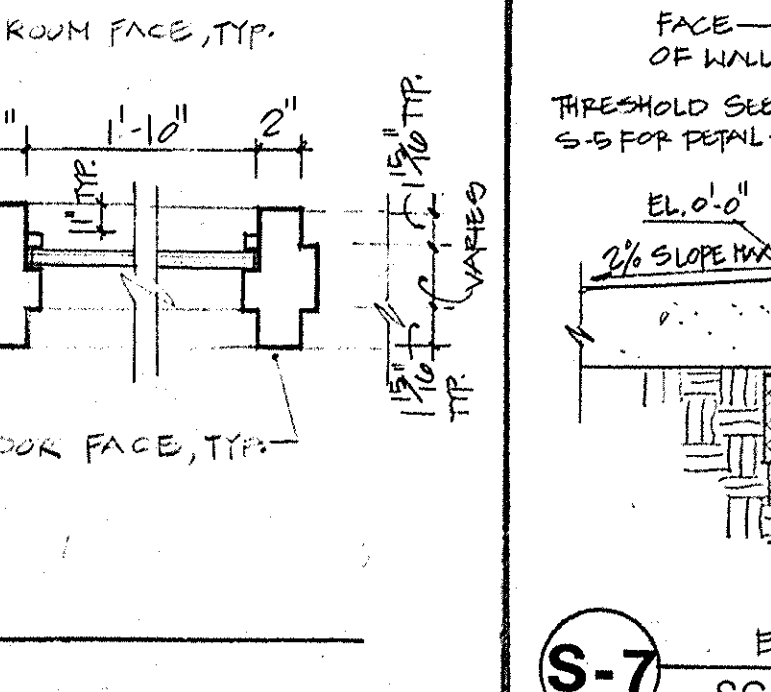
**S-5 DOOR SILL**  
N.T.S.



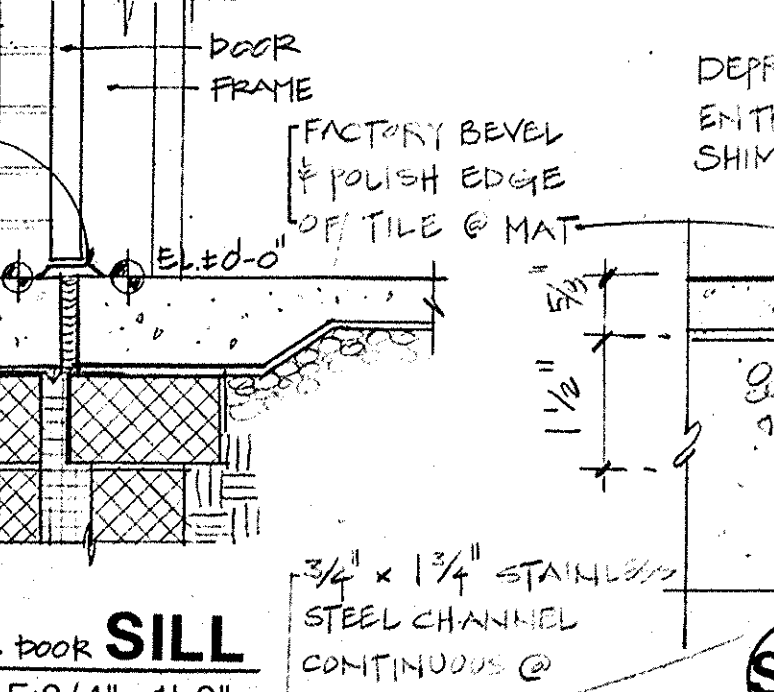
**F-1**



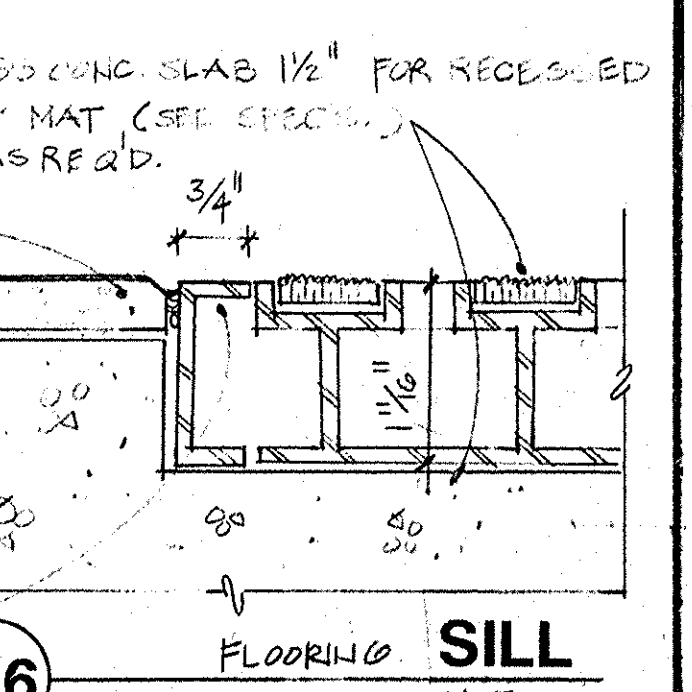
**F-2**



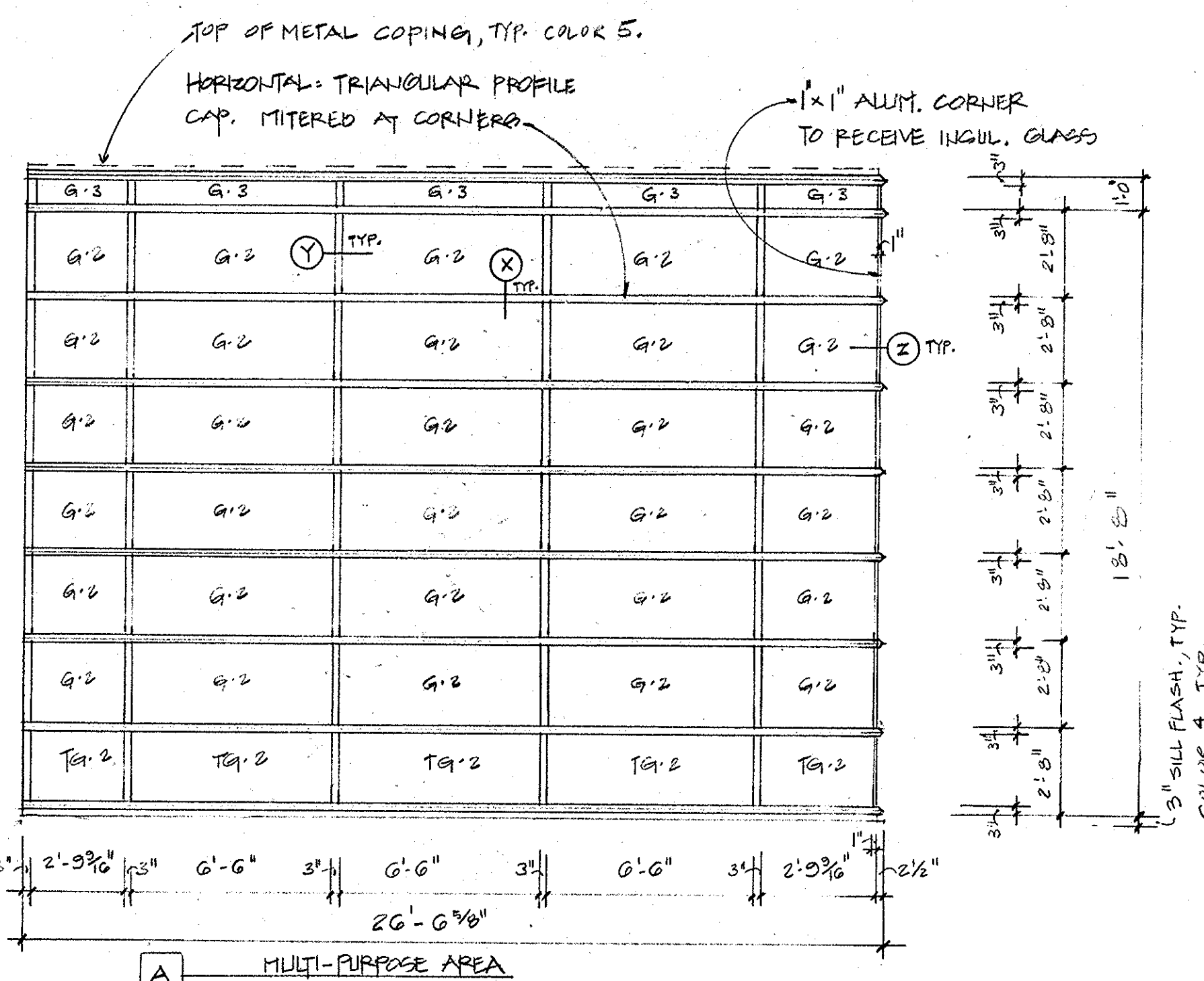
**F-3**



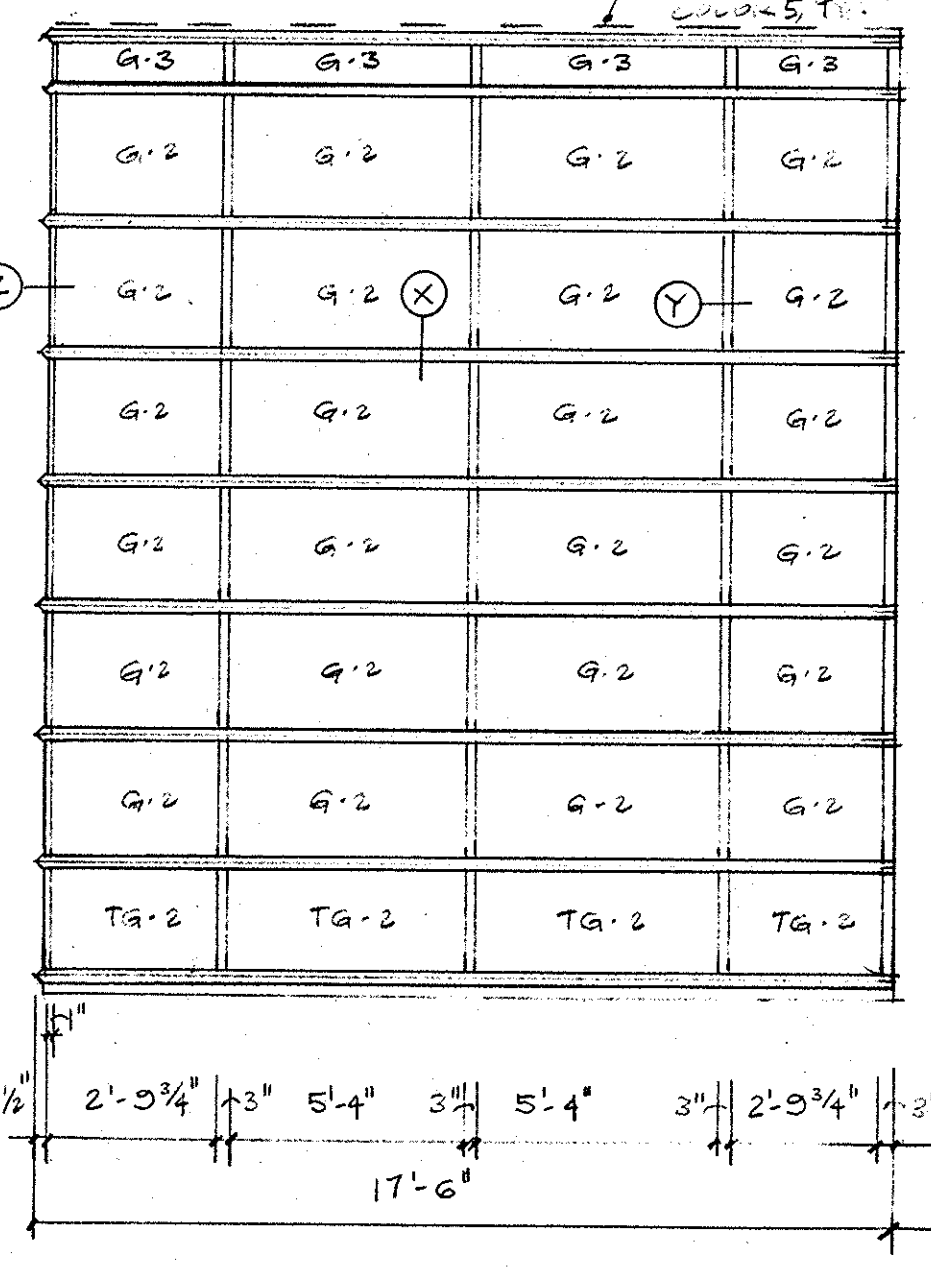
**S-7 EXT. DOOR SILL**  
SCALE: 3/4" = 1'-0"



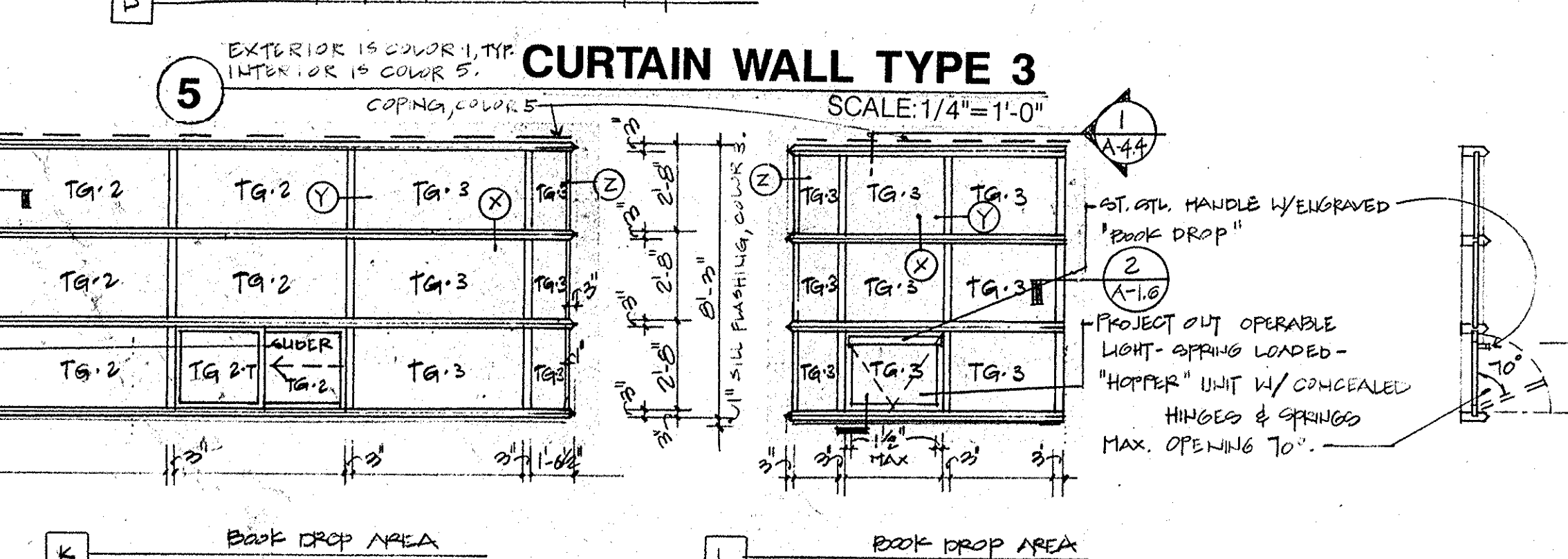
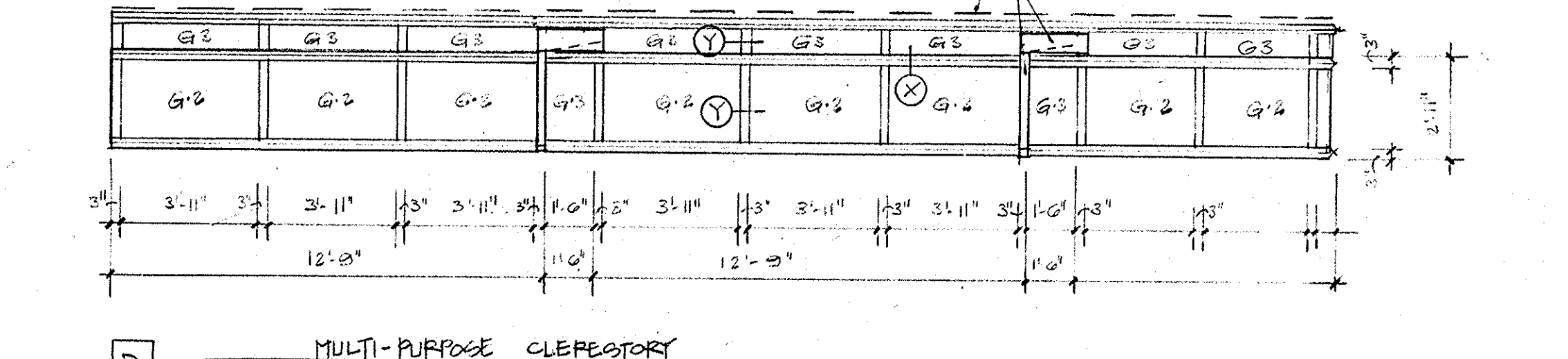
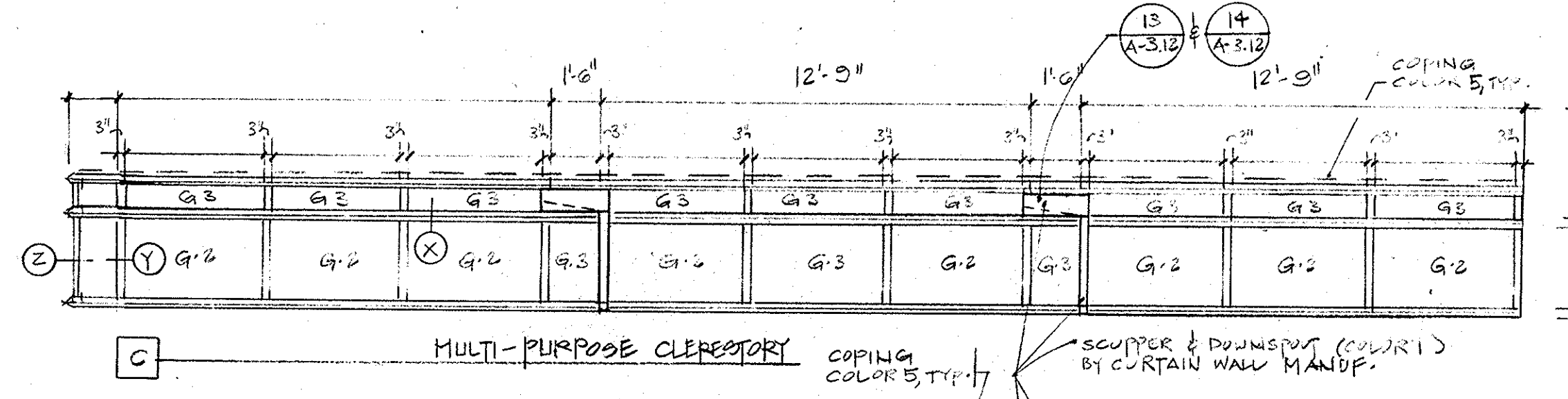
**S-6 FLOORING SILL**  
N.T.S.



**9 CURTAIN WALL TYPE 3**  
SCALE: 1/4" = 1'-0"  
EXT. COLOR 1, TYP.  
INT. IS COLOR 5

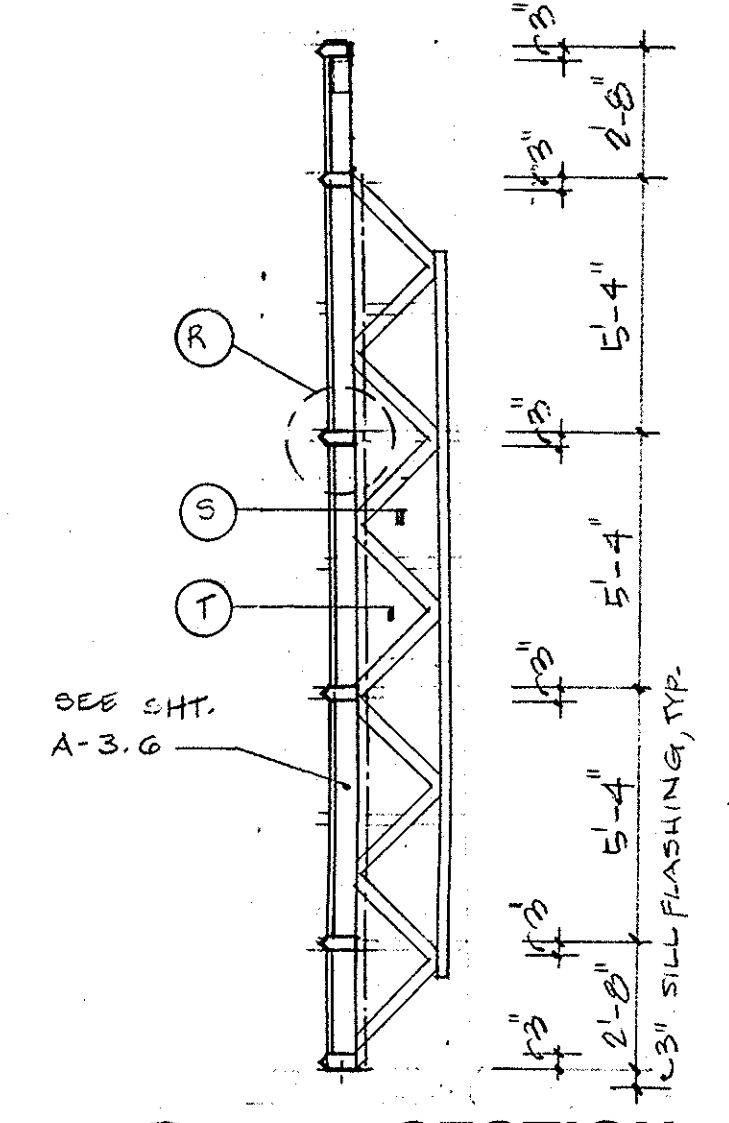


**6 CURTAIN WALL TYPE 3**  
SCALE: 1/4" = 1'-0"  
EXTERIOR IS COLOR 1, TYP.  
INTERIOR IS

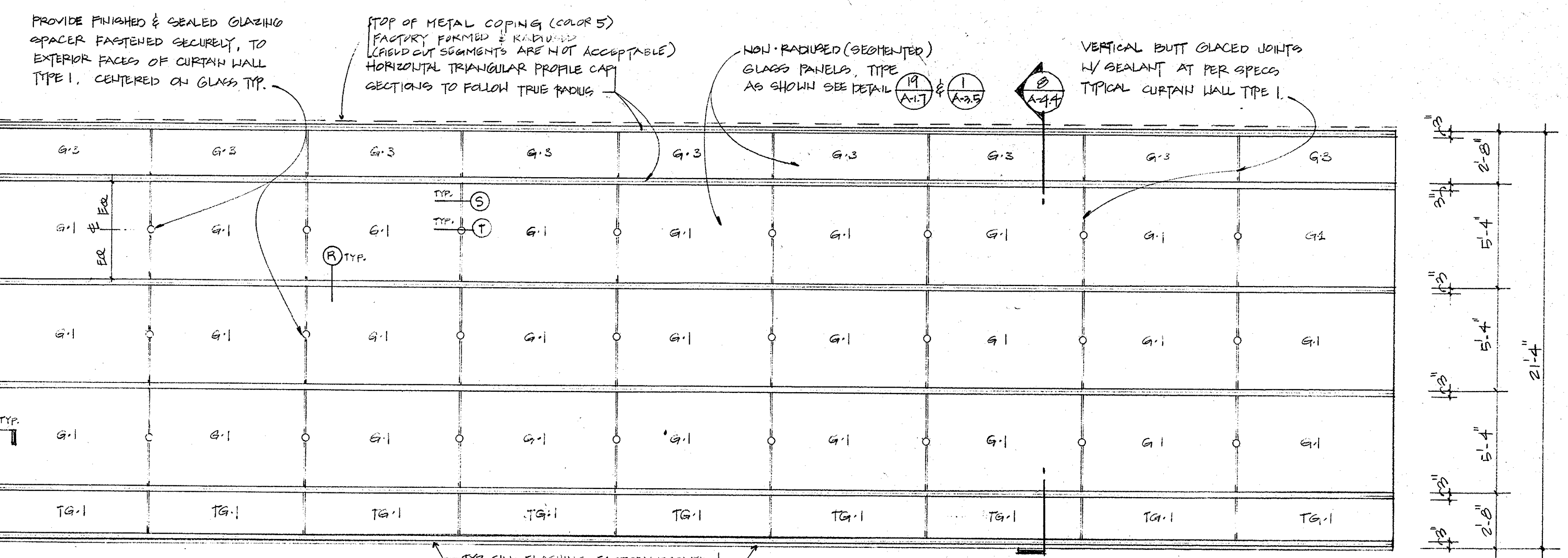


**3 CURTAIN WALL TYPE 3**  
SCALE: 1/4" = 1'-0"  
EXTERIOR COLOR 1,  
INTERIOR CLEAR ANODIZED ALUM. COLOR 5.

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

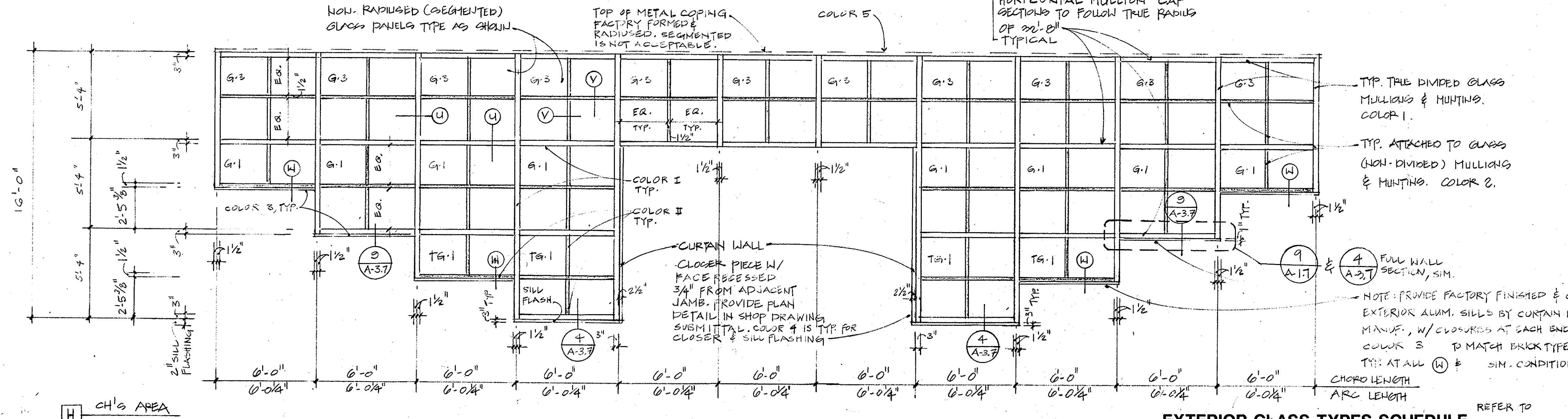


**8 SECTION**  
SCALE: 1/4" = 1'-0"  
READING AREA II  
R=10'-0"  
READING AREA II  
R=16'-0"  
READING AREA I  
R=12'-0"

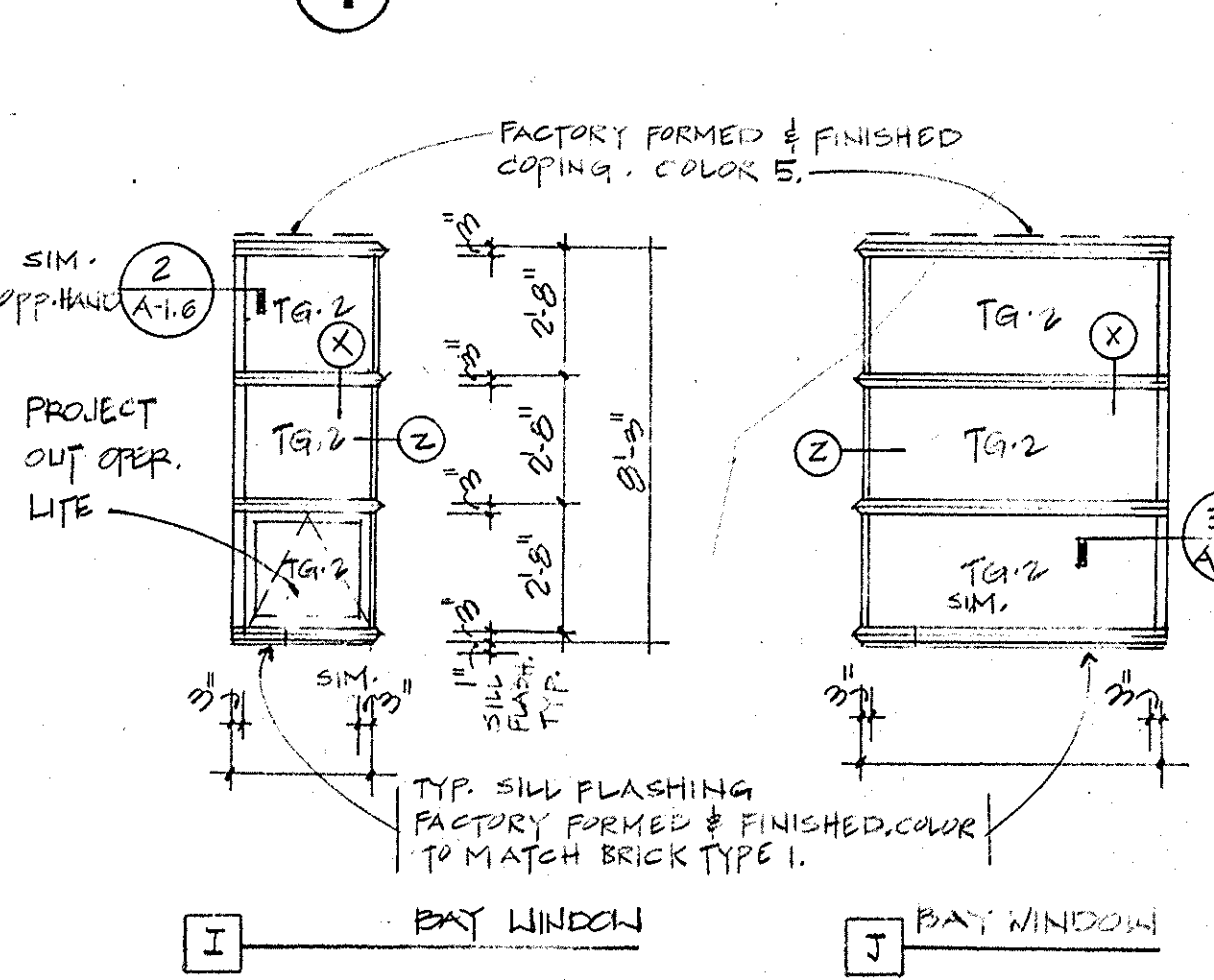


READING AREA II R=10'-0"	7'-11 3/8" (+ 1/2" x)	7'-11 3/8"	7'-11 3/8"	7'-11 3/8"	7'-11 3/8"	7'-11 3/8"	7'-11 3/8"	7'-11 3/8"	7'-11 3/8" (+ 1/2" x)	CHORD LENGTH
READING AREA II R=16'-0"	0'-8 3/8" (+ 1/2" x)	0'-8 3/8"	0'-8 3/8"	0'-8 3/8"	0'-8 3/8"	0'-8 3/8"	0'-8 3/8"	0'-8 3/8"	0'-8 3/8" (+ 1/2" x)	CHORD LENGTH
READING AREA I R=12'-0"	9'-4 3/8" (+ 1/2" x)	9'-4 3/8"	9'-4 3/8"	9'-4 3/8"	9'-4 3/8"	9'-4 3/8"	9'-4 3/8"	9'-4 3/8"	9'-4 3/8" (+ 1/2" x)	CHORD LENGTH

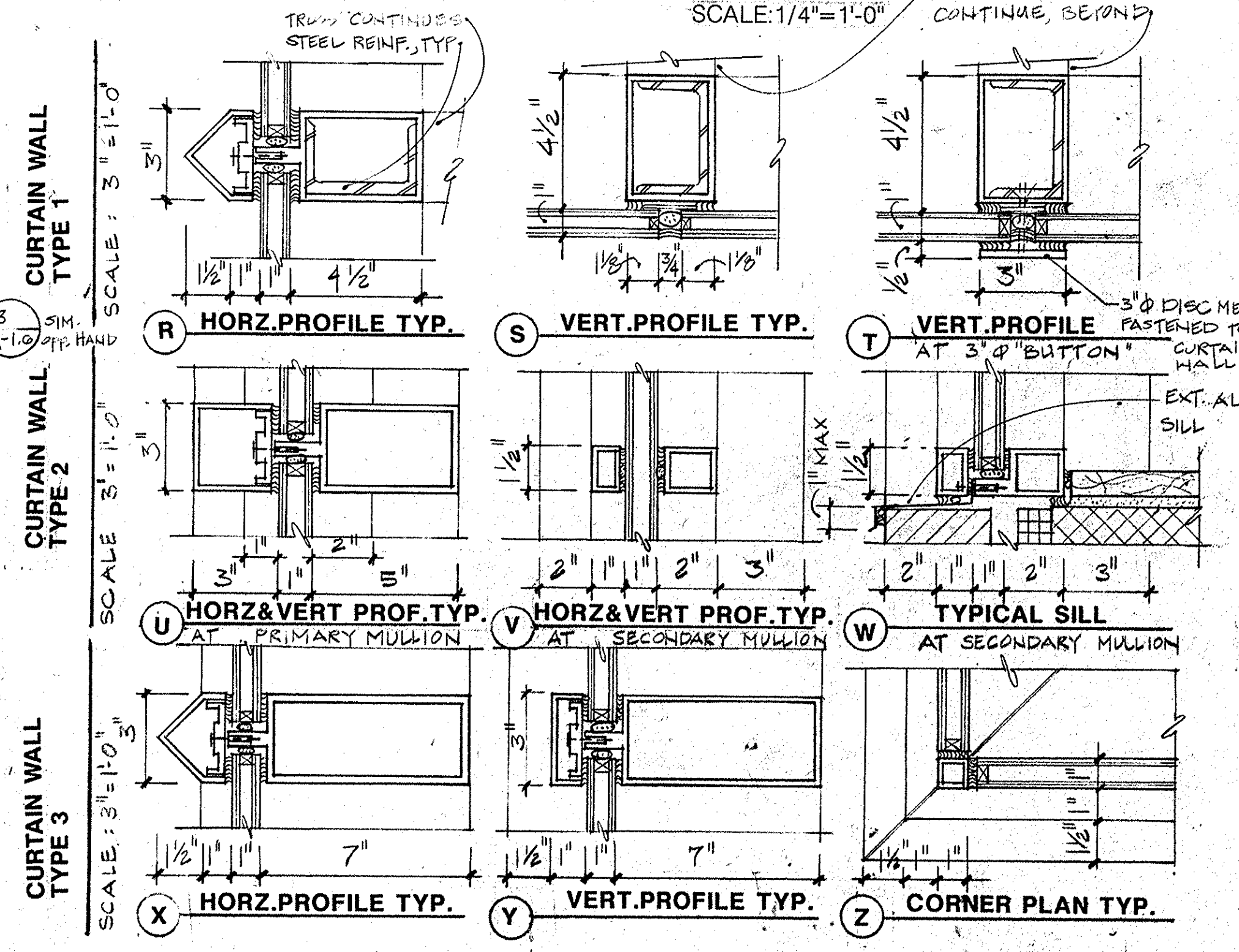
**7 CURTAIN WALL TYPE 1: UNFOLDED ELEV.**  
SCALE: 1/4" = 1'-0"



**4 CURTAIN WALL TYPE 2: UNFOLDED ELEV.**  
SCALE: 1/4" = 1'-0"



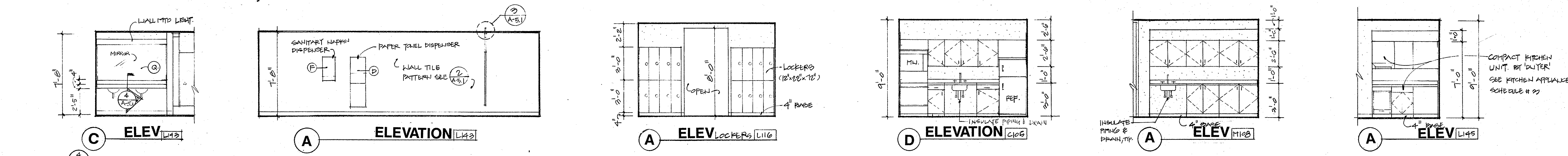
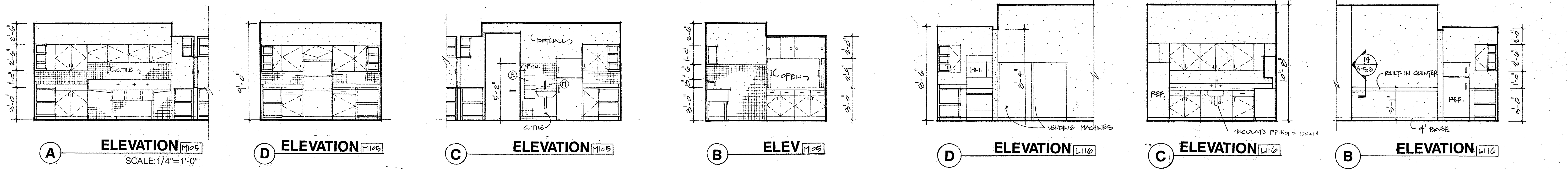
**2 CURTAIN WALL TYPE 3**  
SCALE: 1/4" = 1'-0"  
EXT. IS COLOR 1,  
INT. IS COLOR 5



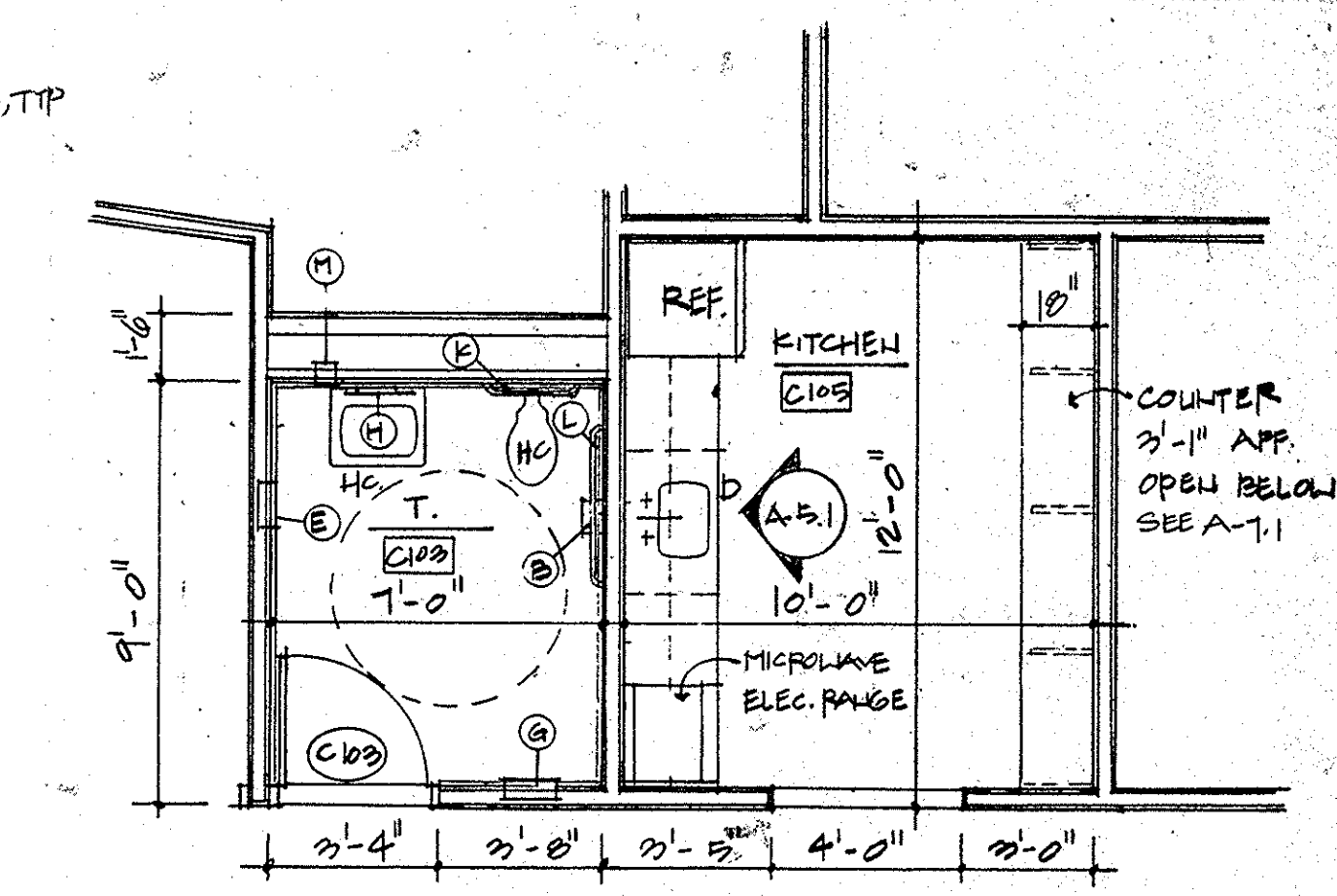
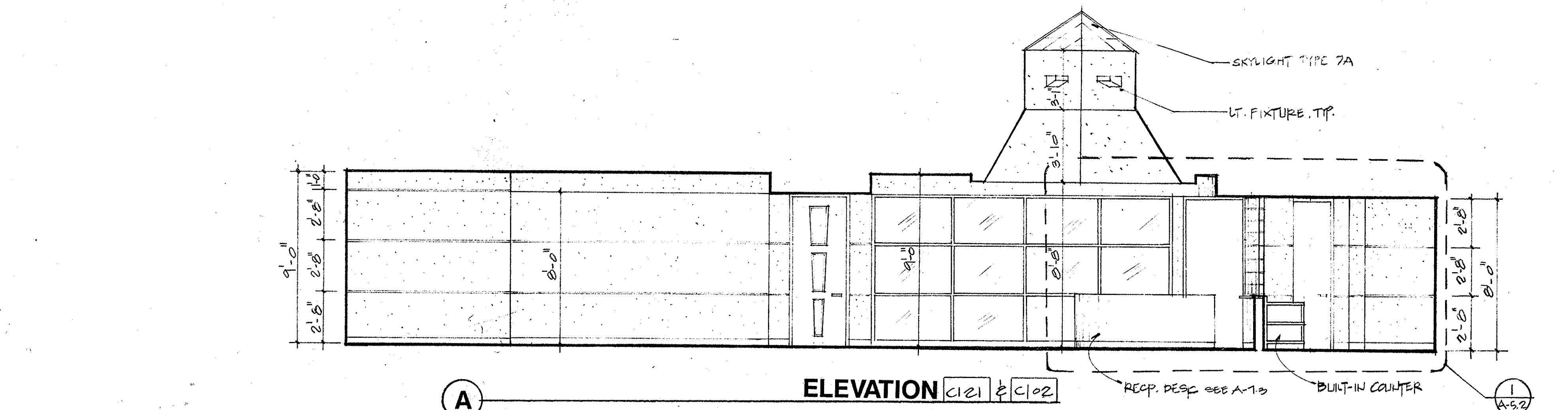
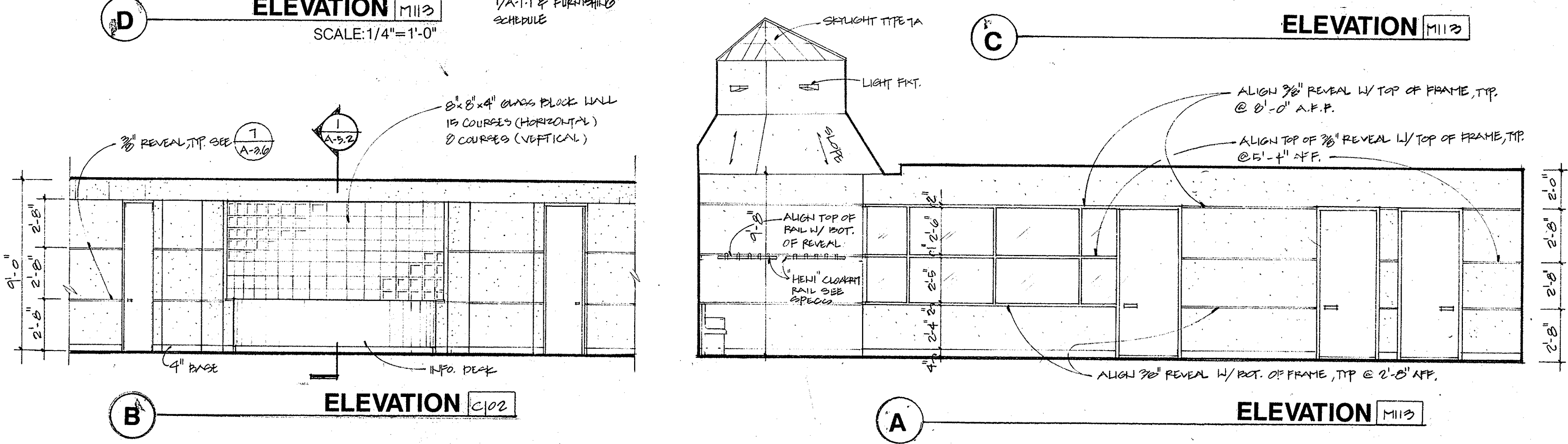
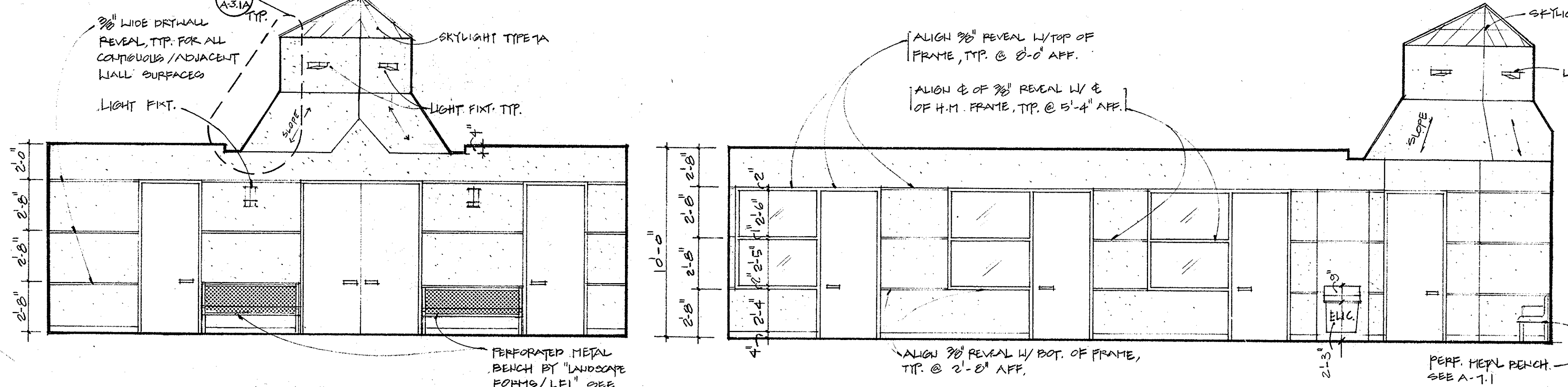
TYPE	DESCRIPTION	REMARKS
G-1	Exterior Light: 1/4" L.O.F. "Evergreen" glass. Interior Light: 1/4" clear glass, with low E coating on third surface.	- 1" insulated- - non reflective - 1/2" Air Space. - vision -LOW 'E' ENERGY ADVANTAGE TYPE.
G-2	Exterior Light: 1/4" L.O.F. "Evergreen" glass. Interior Light: 1/4" L.O.F. "Blue-Green" glass with L.O.F. "Bellipse" coating on third surface.	- 1" insulated - reflective - 1/2" Air Space. - vision -HEAT STRENGTHENED
G-3	Exterior Light: 1/4" L.O.F. "Evergreen" glass. Interior Light: 1/4" L.O.F. "Blue-Green" glass with L.O.F. "Bellipse" coating on third surface and opaque screen coat on fourth surface. HEAT STRENGTHENED	- 1" insulated - reflective - 1/2" Air Space. - vision - opaque spandrel -HEAT STRENGTHENED

- NOTES: CURTAINWALL** TYPICAL FOR EACH TYPE.
- ROUGH OPENING OR MASONRY DIMENSIONS ARE SHOWN.
  - CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO INSTALL CURTAINWALL SYSTEM. VERIFY ACTUAL SYSTEM DIMENSIONS WITH THOSE SHOWN ON ALL DRAWINGS, INCLUDING DETAILS SHOWN ON SHEETS OTHER THAN A-4.4.
  - SEAL ALL SIDES OF CURTAINWALL ABUTTING DISSIMILAR MATERIALS, TYPICAL HEAD JAMB AND SILL. PROVIDE APPROPRIATE ANCHORS TO SECURE SYSTEM.
  - COORDINATE APPROPRIATE DIMENSIONS WITH ACTUAL SYSTEM AND VERIFY IN FIELD.
  - PROVIDE RADIUS CAP EXTENSION TO FORM TRUE CURVE OVER SEGMENTED HORIZONTAL MULLIONS ONLY: [2] [7] [8] [9].



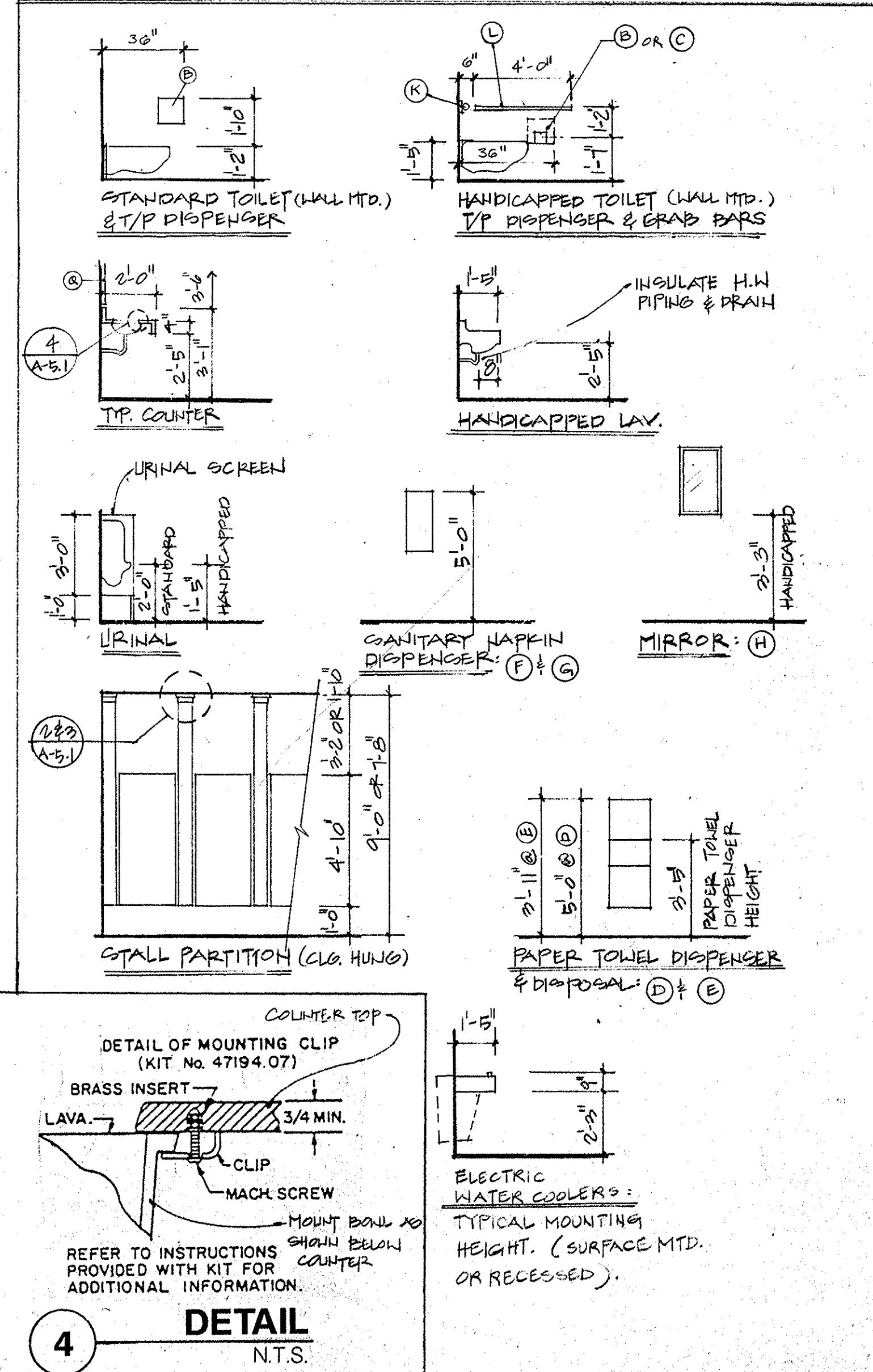


NOTE: FOR BUILT-IN BASE & WALL CABINETS SEE A-7.1, A-7.2 TYP.



**KITCHEN & TOILET PLAN**  
SCALE: 1/4" = 1'-0"

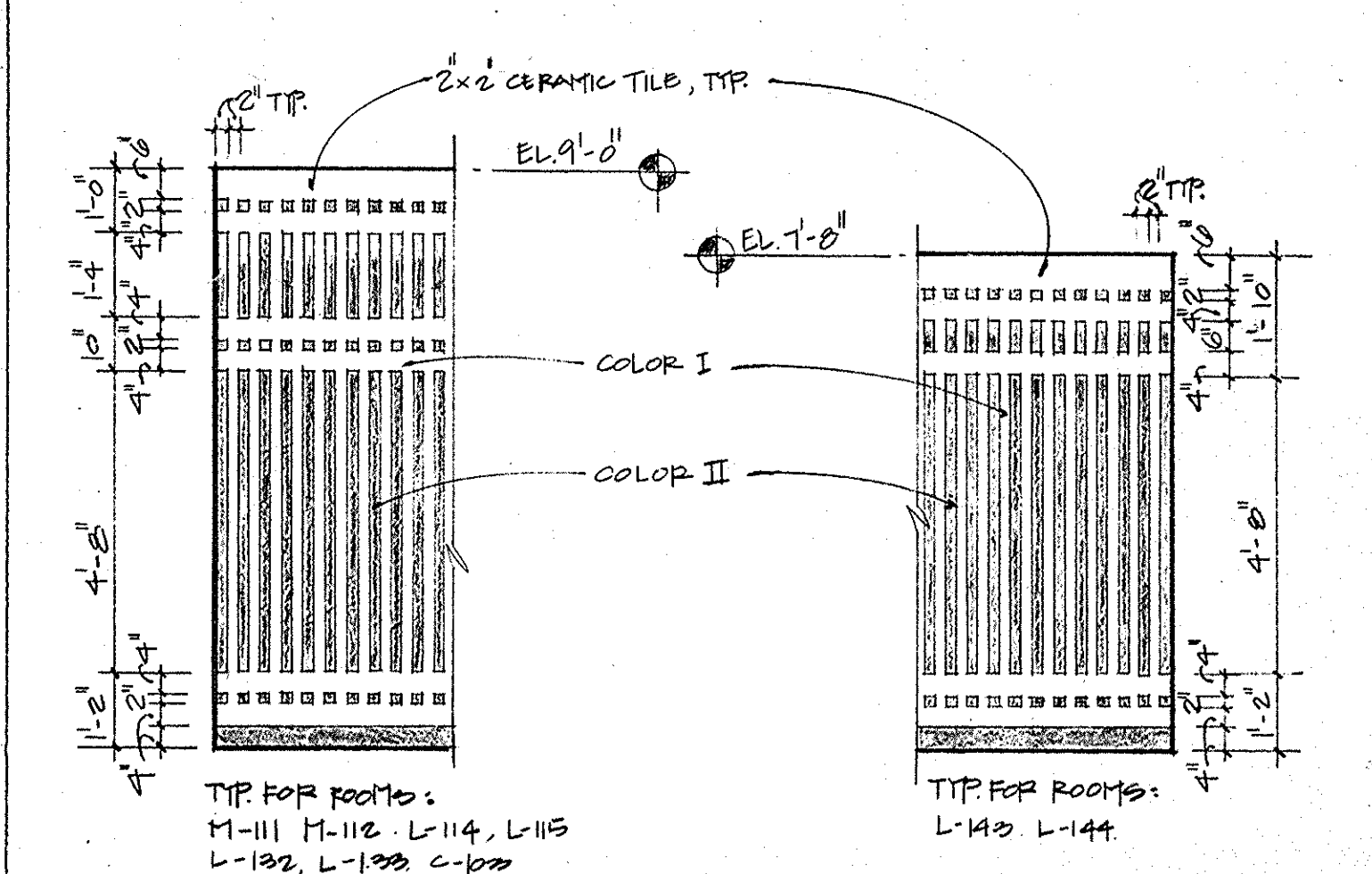
**FIXTURE MOUNTING HEIGHTS : TYPICAL**



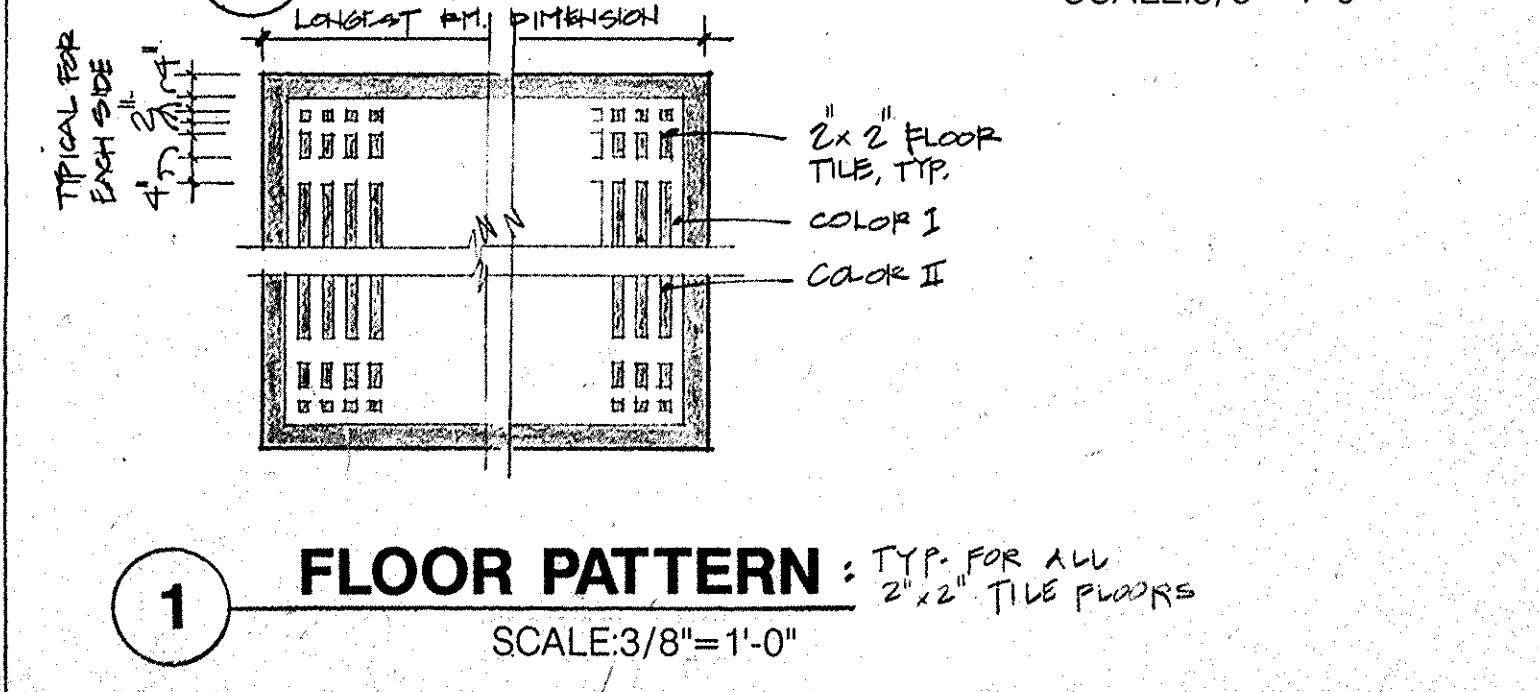
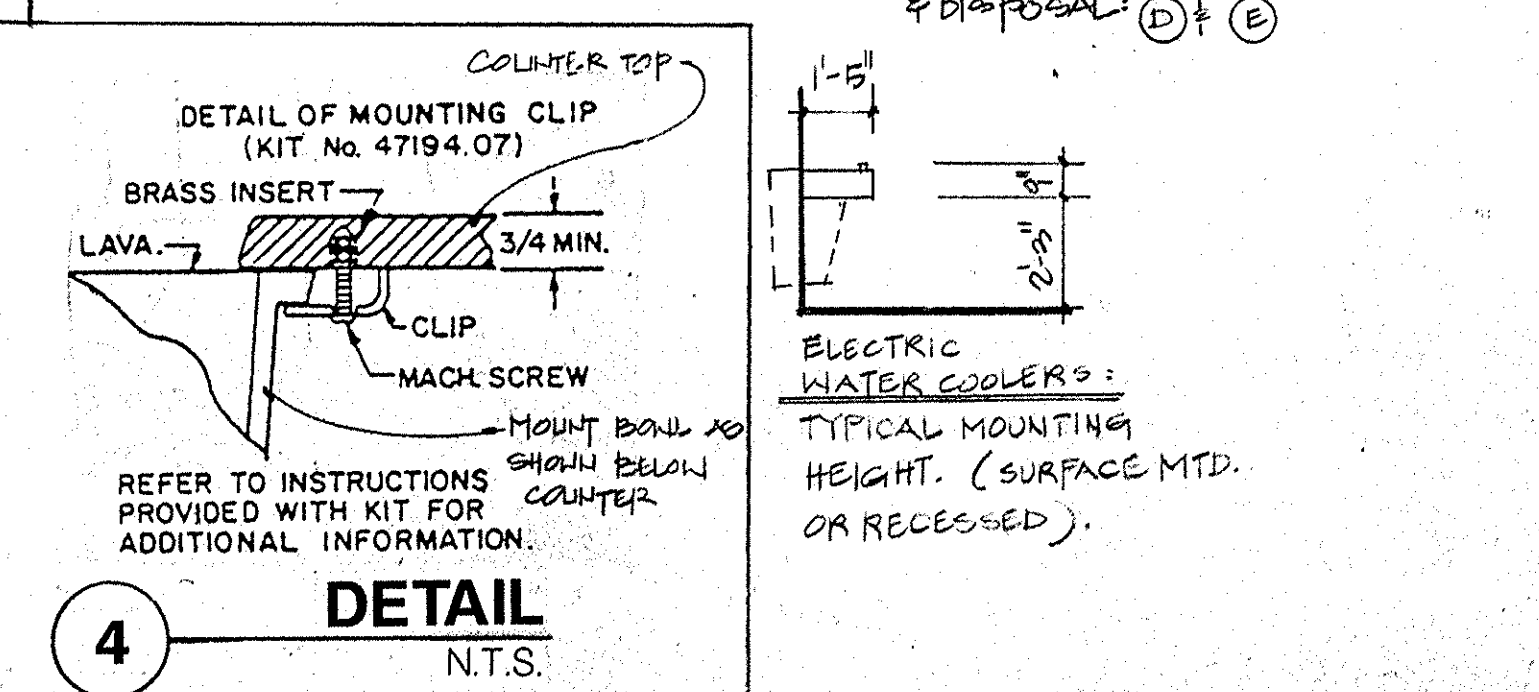
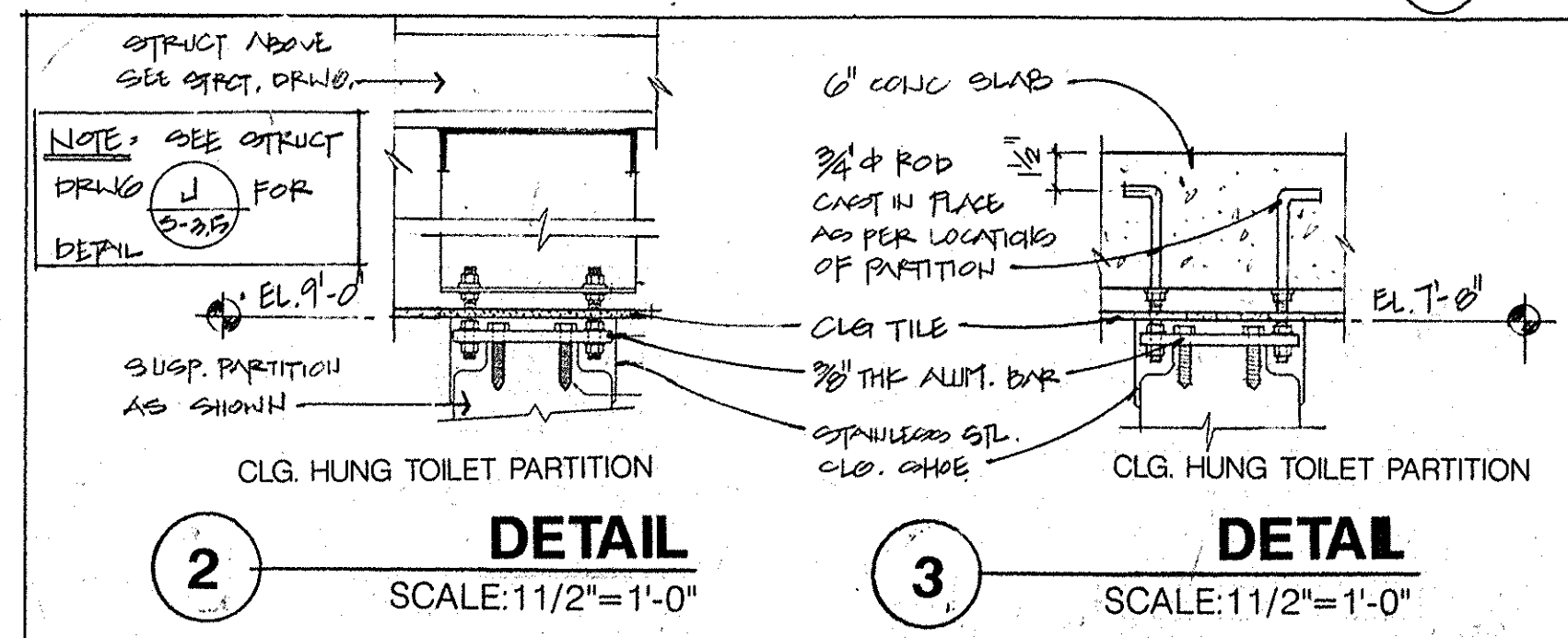
**TOILET ACCESSORY KEY**

KEY	DESCRIPTION
(A)	DOUBLE T/P DISPENSER AND NAPKIN DISPOSAL (DUAL COMPARTMENT)
(B)	DOUBLE T/P DISPENSER AND NAPKIN DISPOSAL (RECESSED)
(C)	DOUBLE T/P DISPENSER
(D)	PAPER TOWEL DISPENSER AND DISPOSAL, (RECESSED)
(E)	PAPER TOWEL DISPENSER AND DISPOSAL, (SMALL SIZE)
(F)	SANITARY NAPKIN DISPENSER (RECESSED)
(G)	SANITARY NAPKIN DISPENSER (SEMI-RECESSED)
(H)	MIRROR (HANDICAPPED STAFF) 18" X 30" TILTED FRAME WITH 1/4" PLATE GLASS
(K)	GRAB BAR (36" L) (CONCEALED ANCHOR)
(L)	GRAB BAR (48" L) (CONCEALED ANCHOR)
(M)	SOAP DISPENSER (OWNER WILL PROVIDE)
(N)	MOP STRIP - 36" LONG W/ 4 MOP HOLDERS AND 3 HOOKS, MOUNT 5'-0" A.F.F.
(P)	DOUBLE T/P DISPENSER & NAPKIN DISPOSAL (SURFACE MTD.)
(Q)	WALL MIRROR 2'-0" HIGH X WIDTH (SEE PLAN) @ 6'-7" AFF.

NOTE: ROOM FINISH SCHEDULE & INTERIOR ELEVATION ARE ORIENTED & KEYED IN THIS MANNER



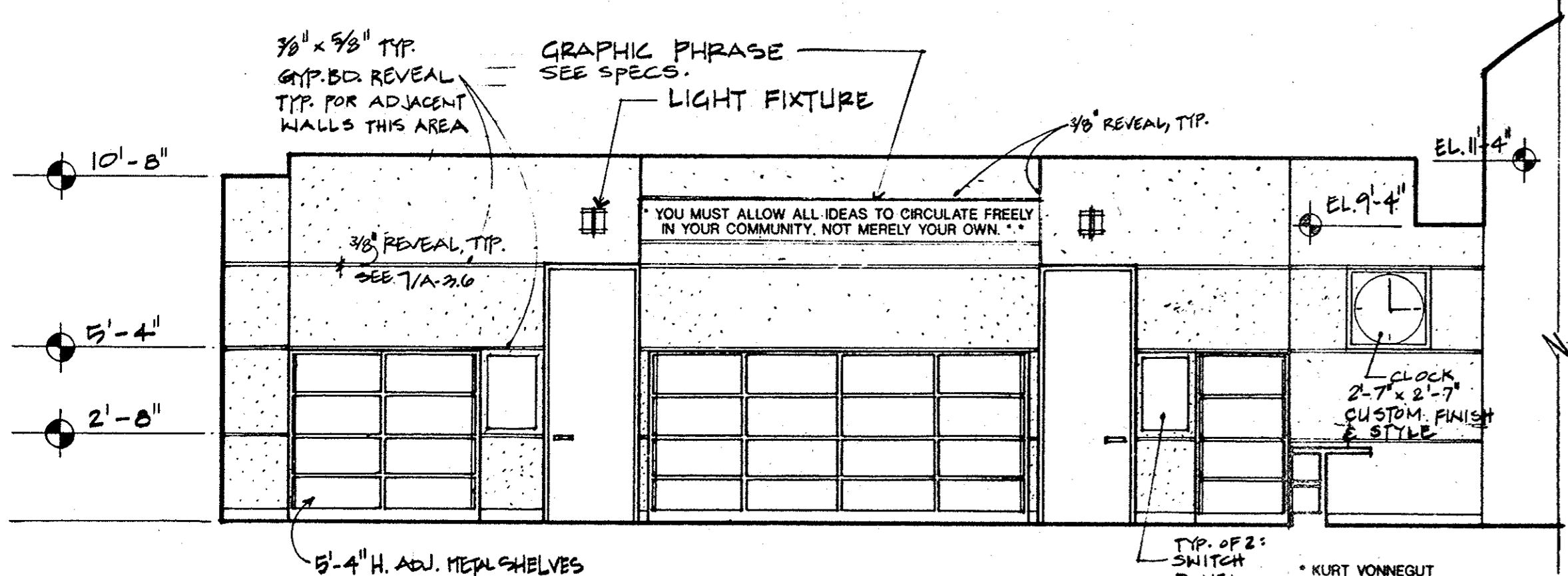
**TOILET WALL PATTERN**  
SCALE: 3/8" = 1'-0"



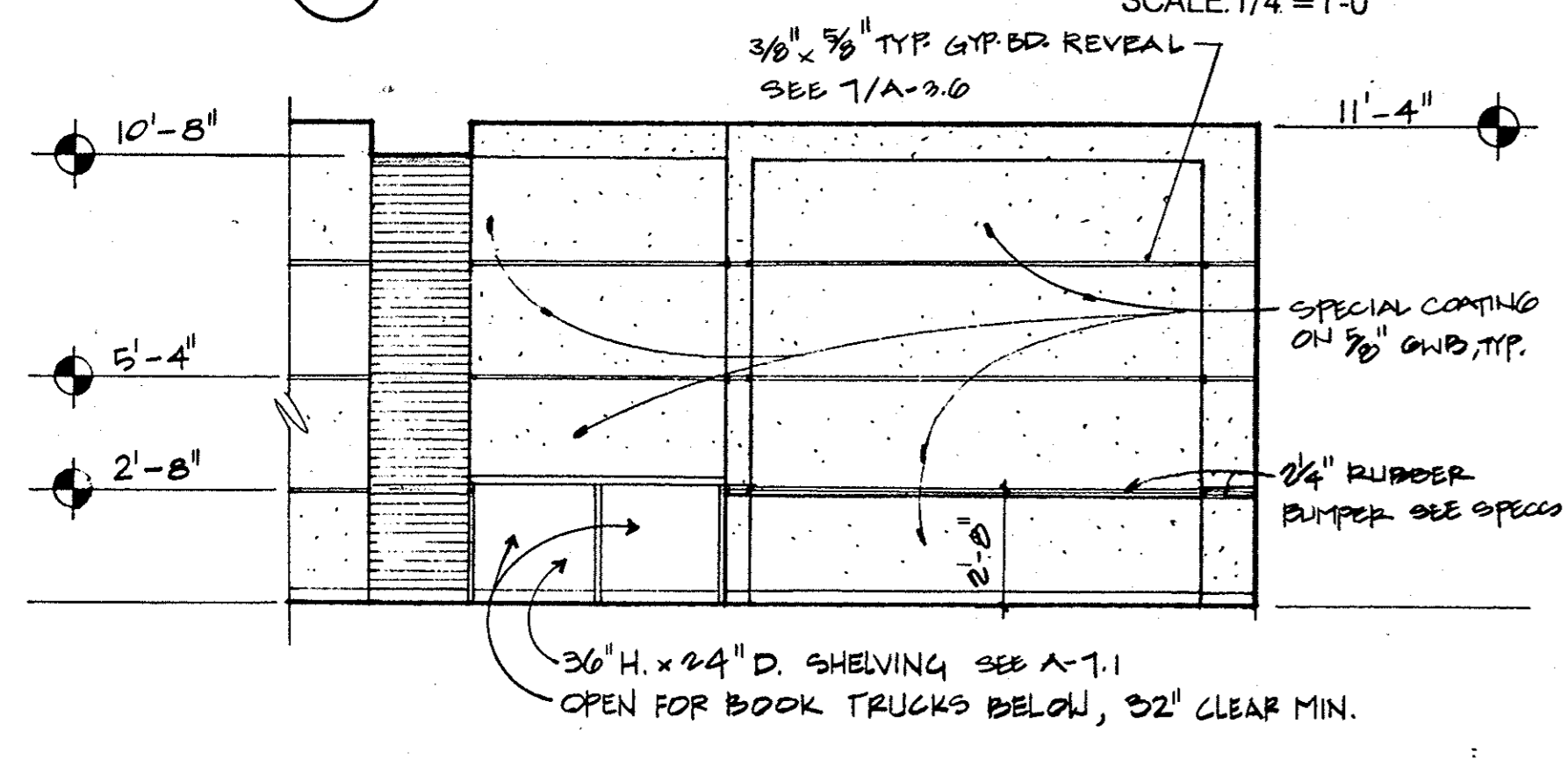
**FLOOR PATTERN 1**  
SCALE: 3/8" = 1'-0"

SEE A-7.1 & A-7.2 FOR LOCATIONS

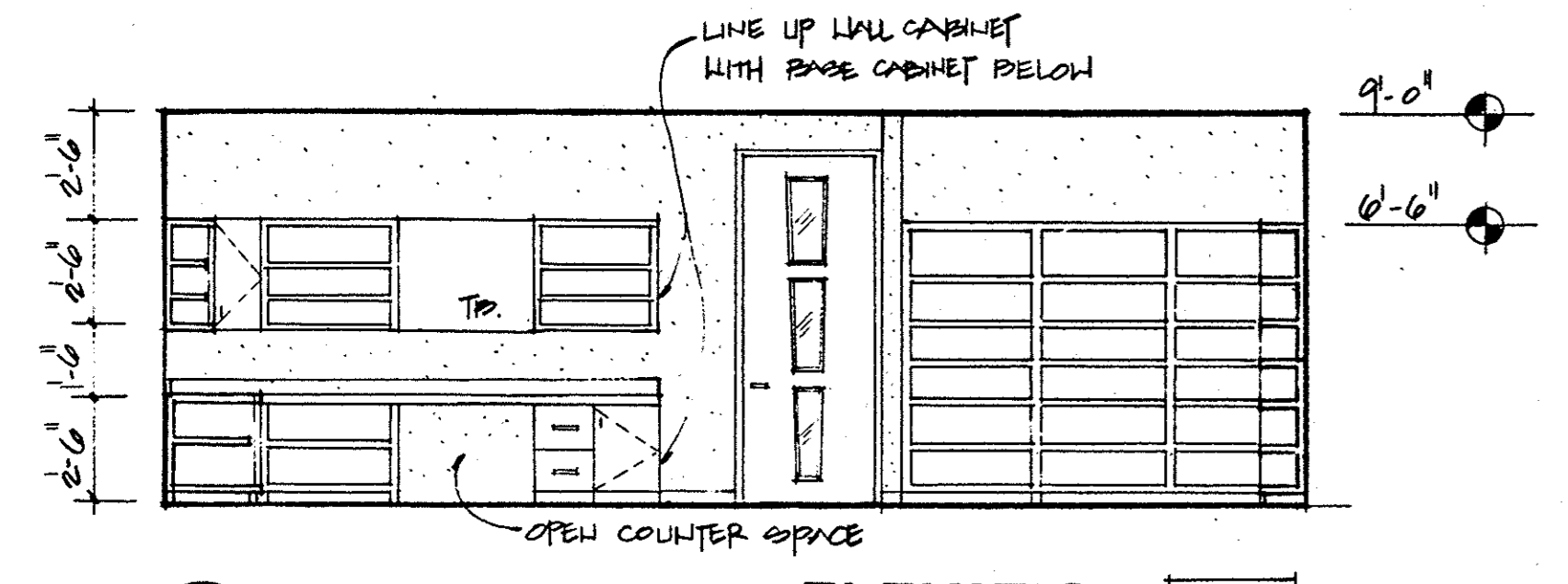
QTY.	DESCRIPTION	SIZE W x D x H	MANUFACTURER	MANUF. NO.	COLOR
2	MICROWAVE/ELEC. RANGE	30" x 27-7/8" x 71-5/8"	GE	JEP226H	WHITE/BLACK (FRONT PANEL)
3	FULL SIZE REFRIGERATOR	29-3/8" x 32-3/4" x 64-3/4"	GE	TBX192P	WHITE
1	COMPACT KITCHEN UNIT	72-1/2" x 26" x 84"	DWYER	B69SCR	BLACK ON PLATINUM
1	KILN	30" x 40" x 40-1/4"	ECONO KILN	J-230	
1	ELEC. RANGE	36"X30-1/2"X 60-3/4"	VULCAN	E36	STAINLESS STEEL



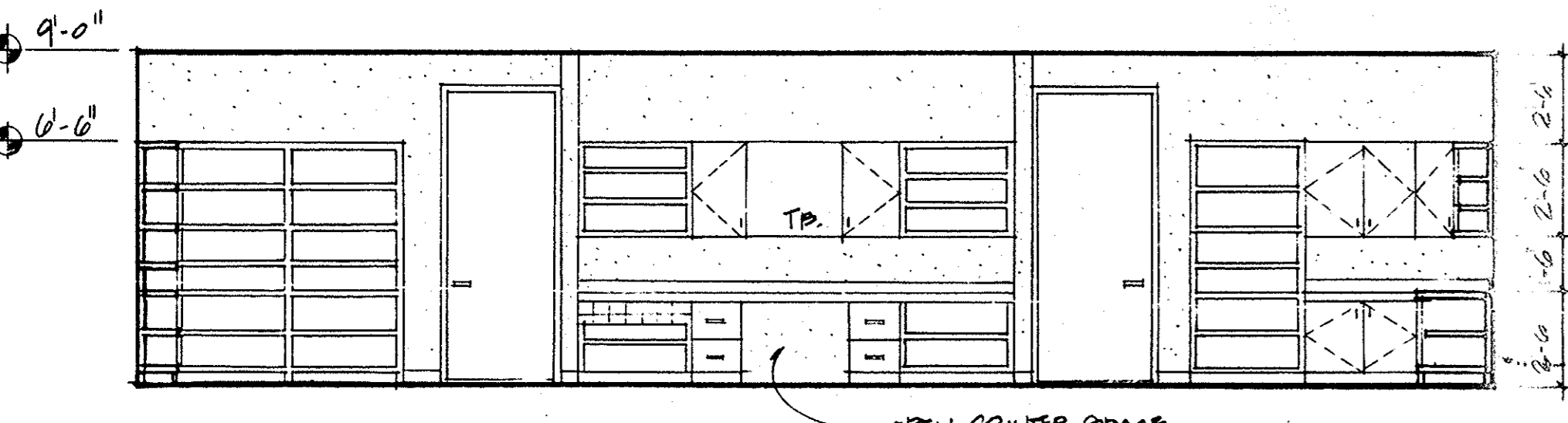
**ELEVATION D**  
SCALE: 1/4"=1'-0"



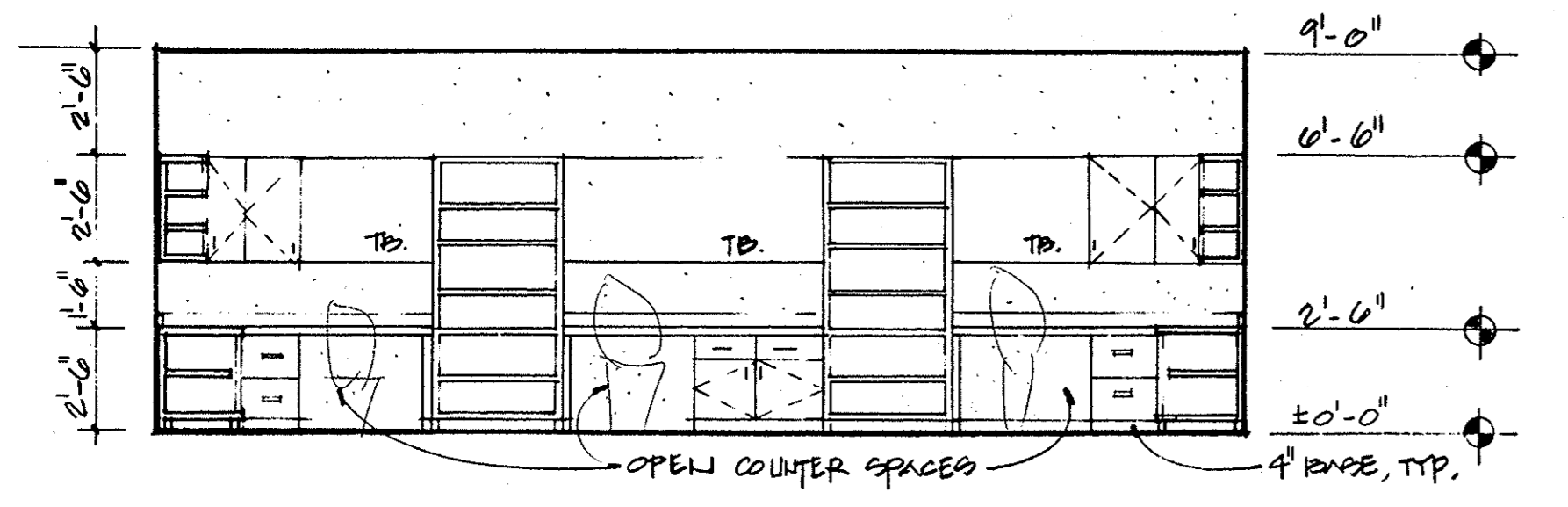
**ELEVATION C**  
SCALE: 1/4"=1'-0"



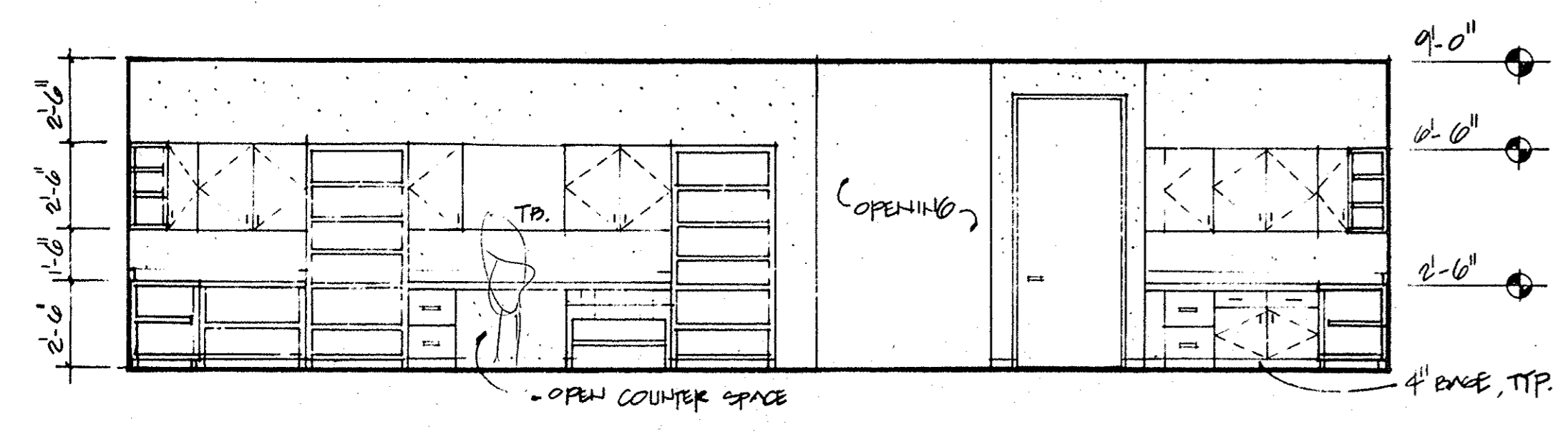
**ELEVATION A**  
SCALE: 1/4"=1'-0"



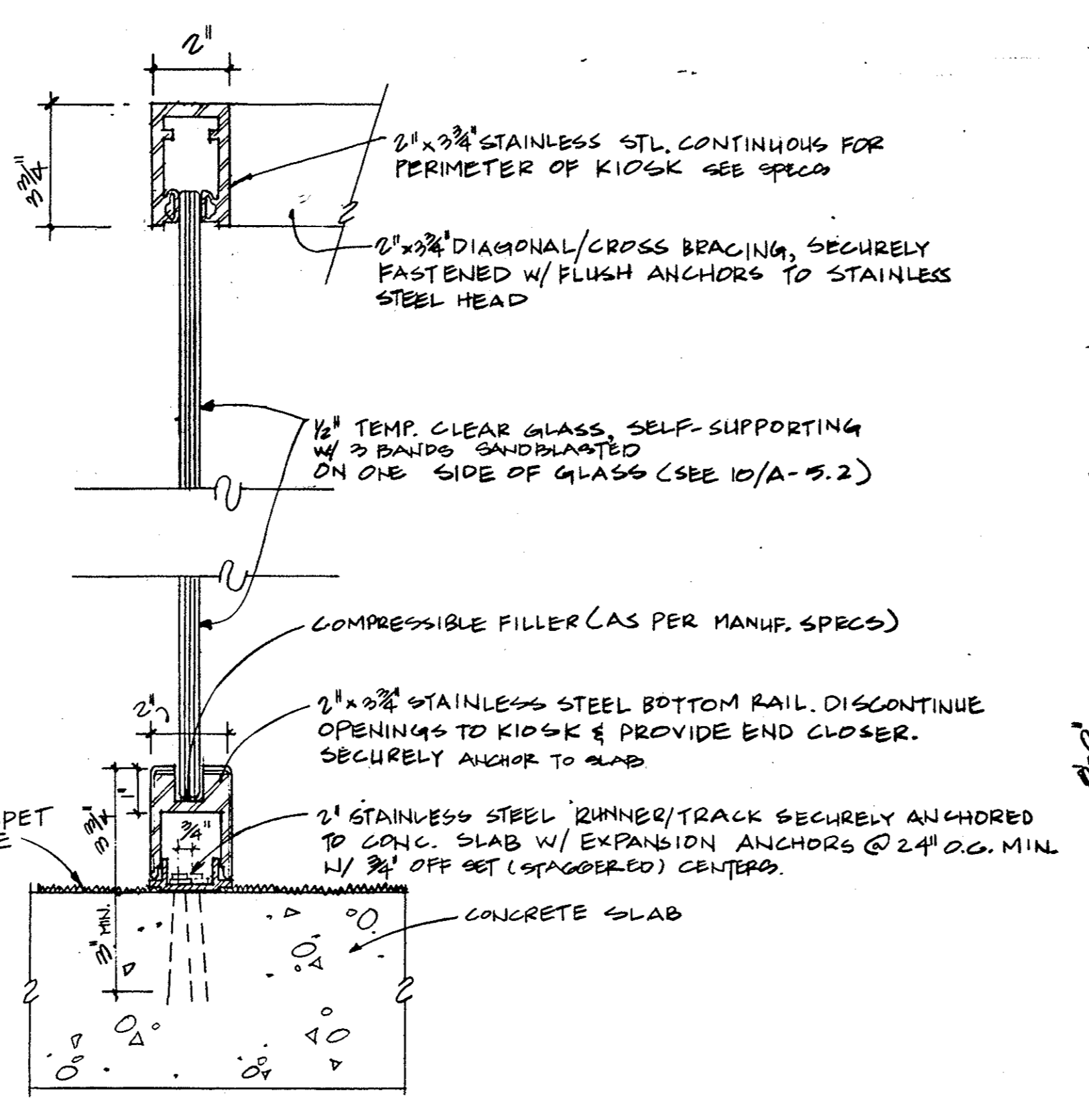
**ELEVATION B**  
SCALE: 1/4"=1'-0"



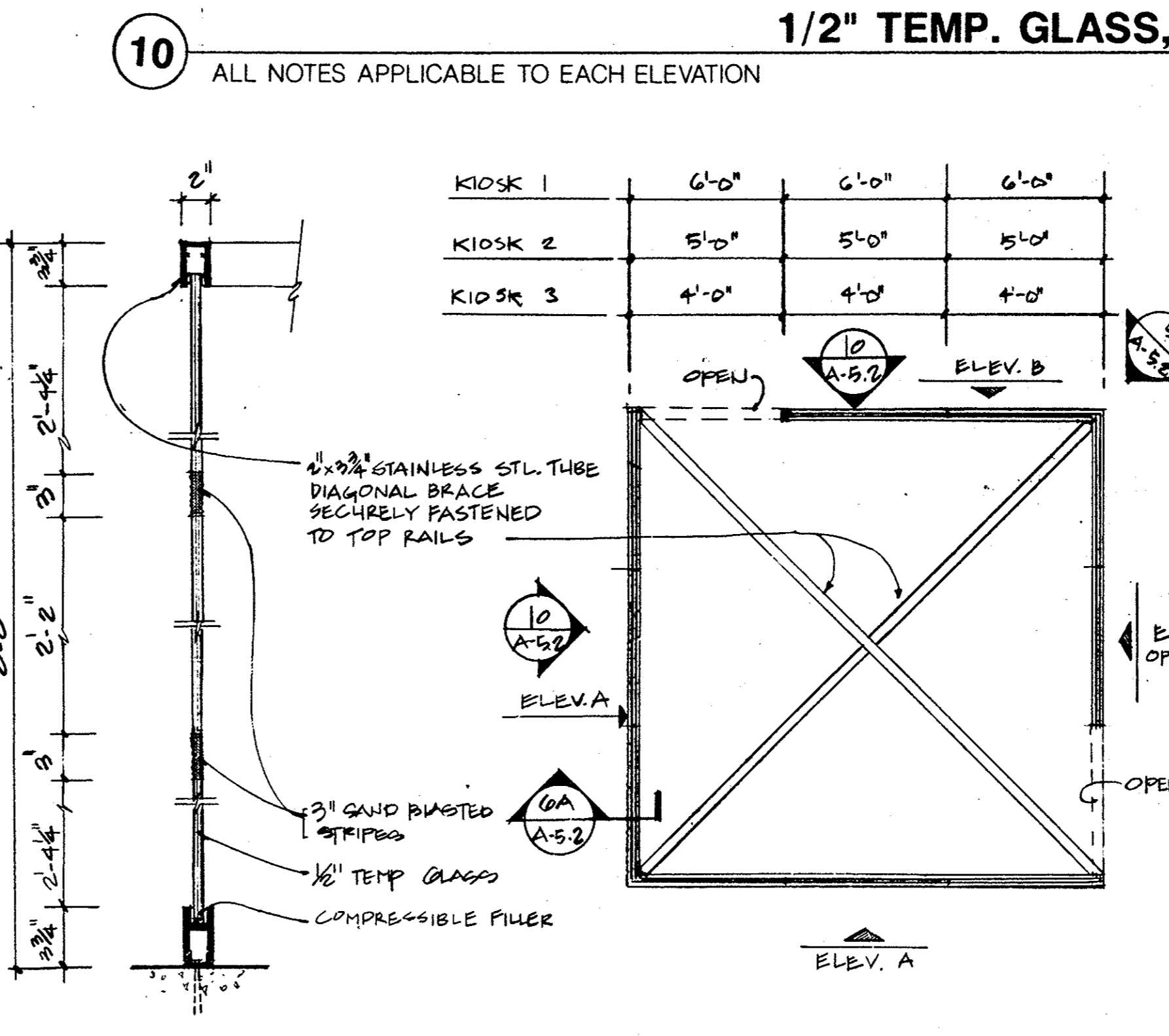
**ELEVATION C**  
SCALE: 1/4"=1'-0"



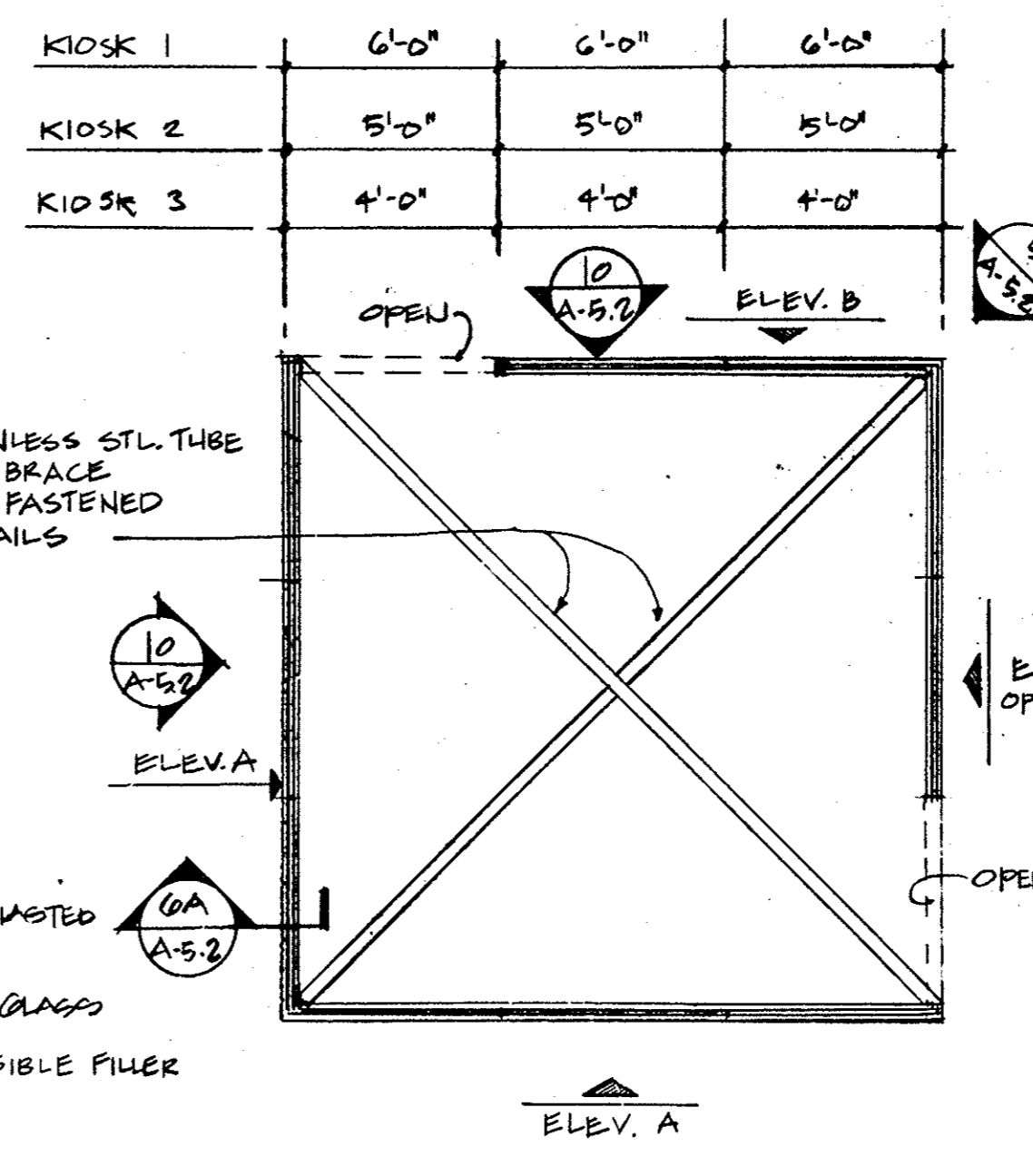
**ELEVATION D**  
SCALE: 1/4"=1'-0"



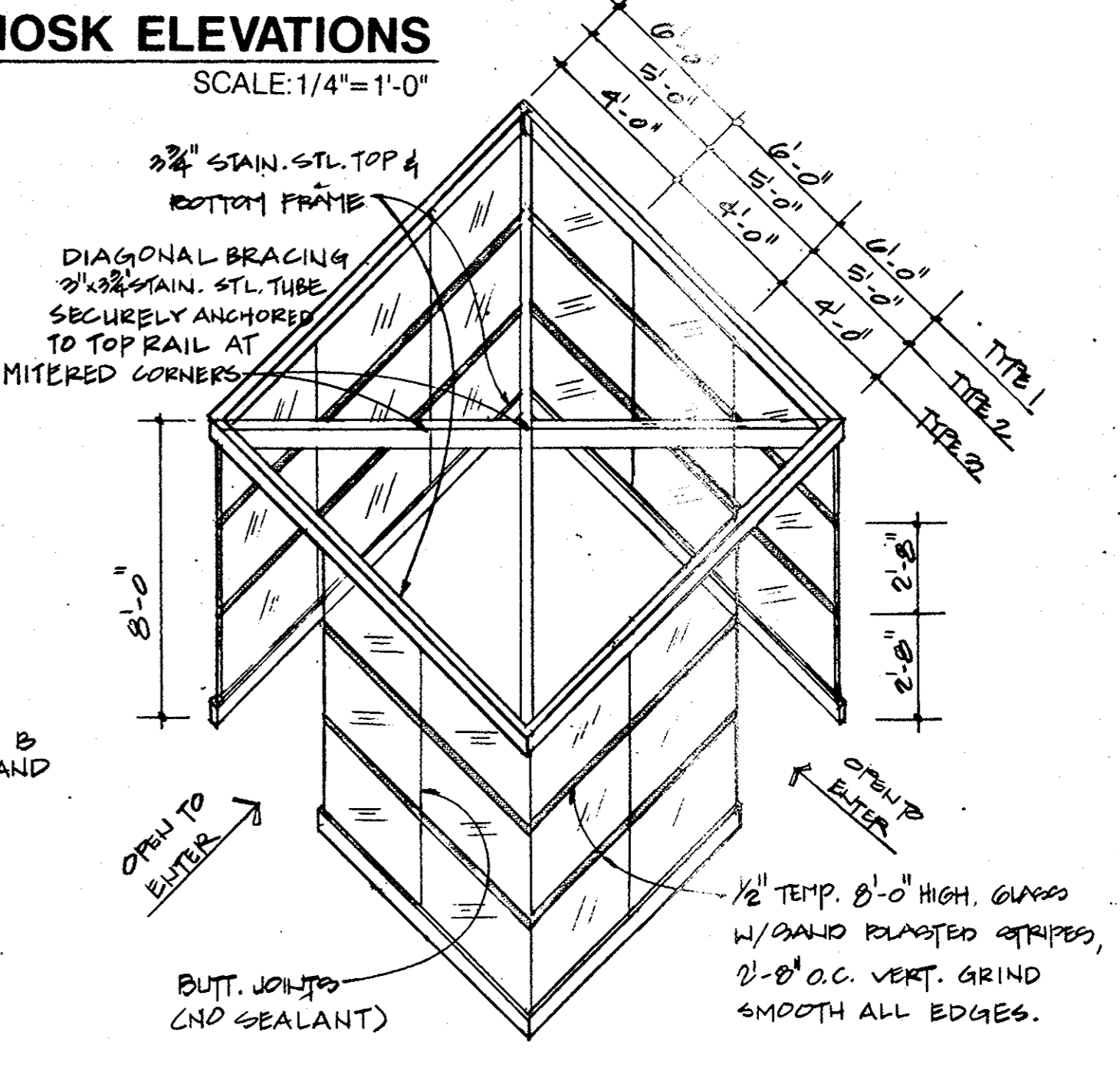
**6B KIOSK: TOP & BOTTOM RAILS**  
SCALE: 1"=1'-0"



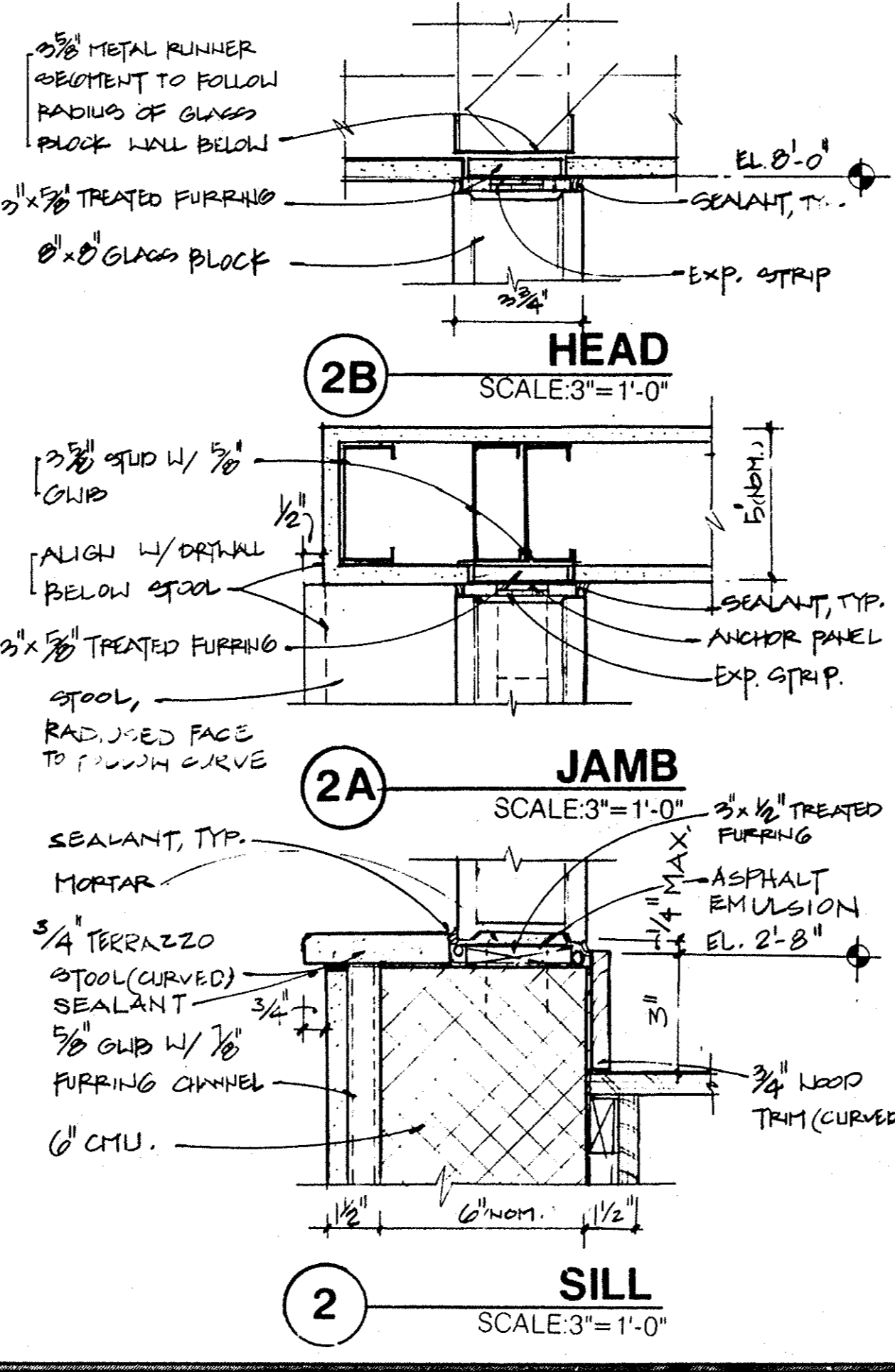
**6A KIOSK SECTION**  
SCALE: 1 1/2"=1'-0"



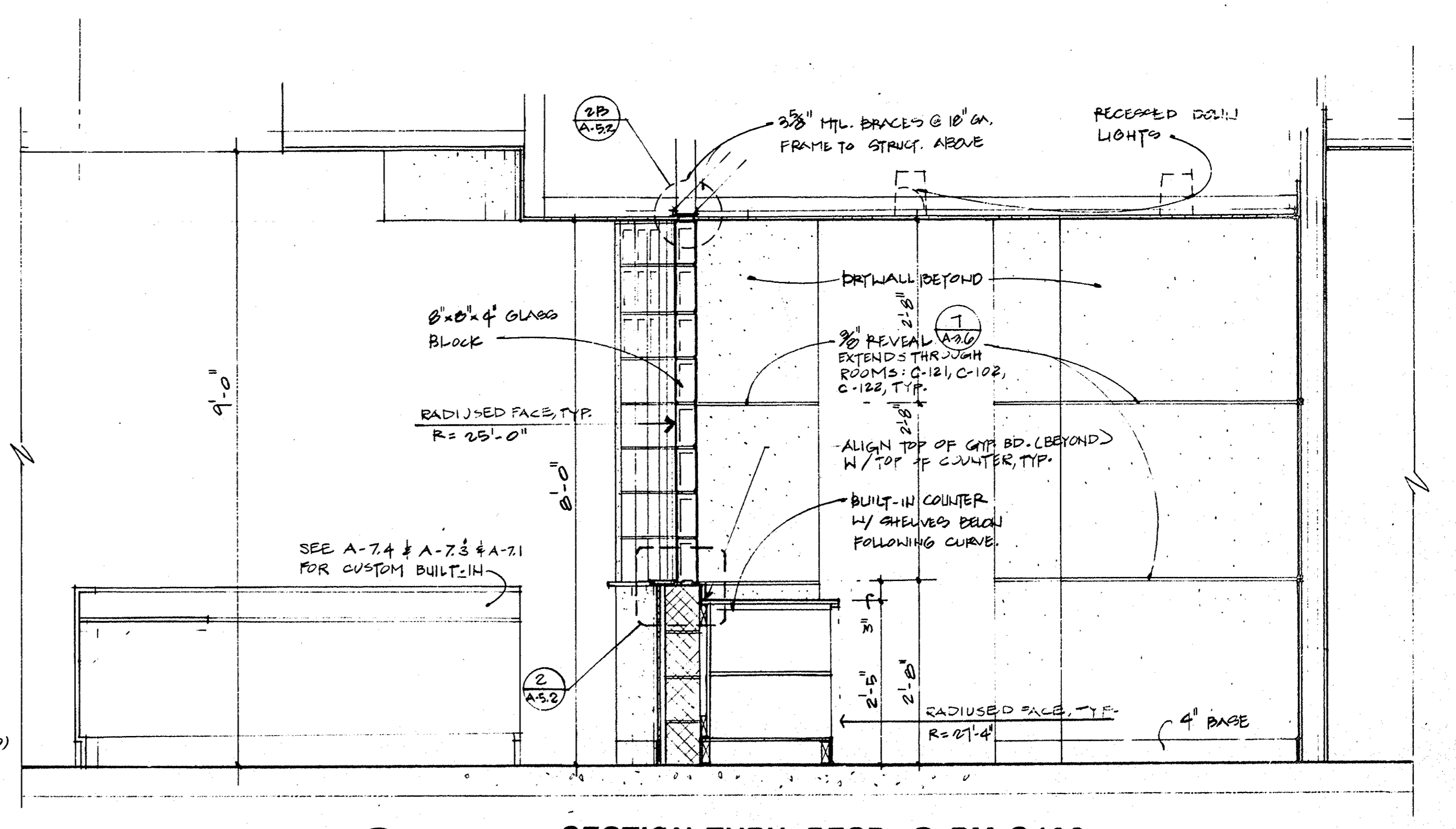
**6 KIOSK PLAN**  
SCALE VARIES



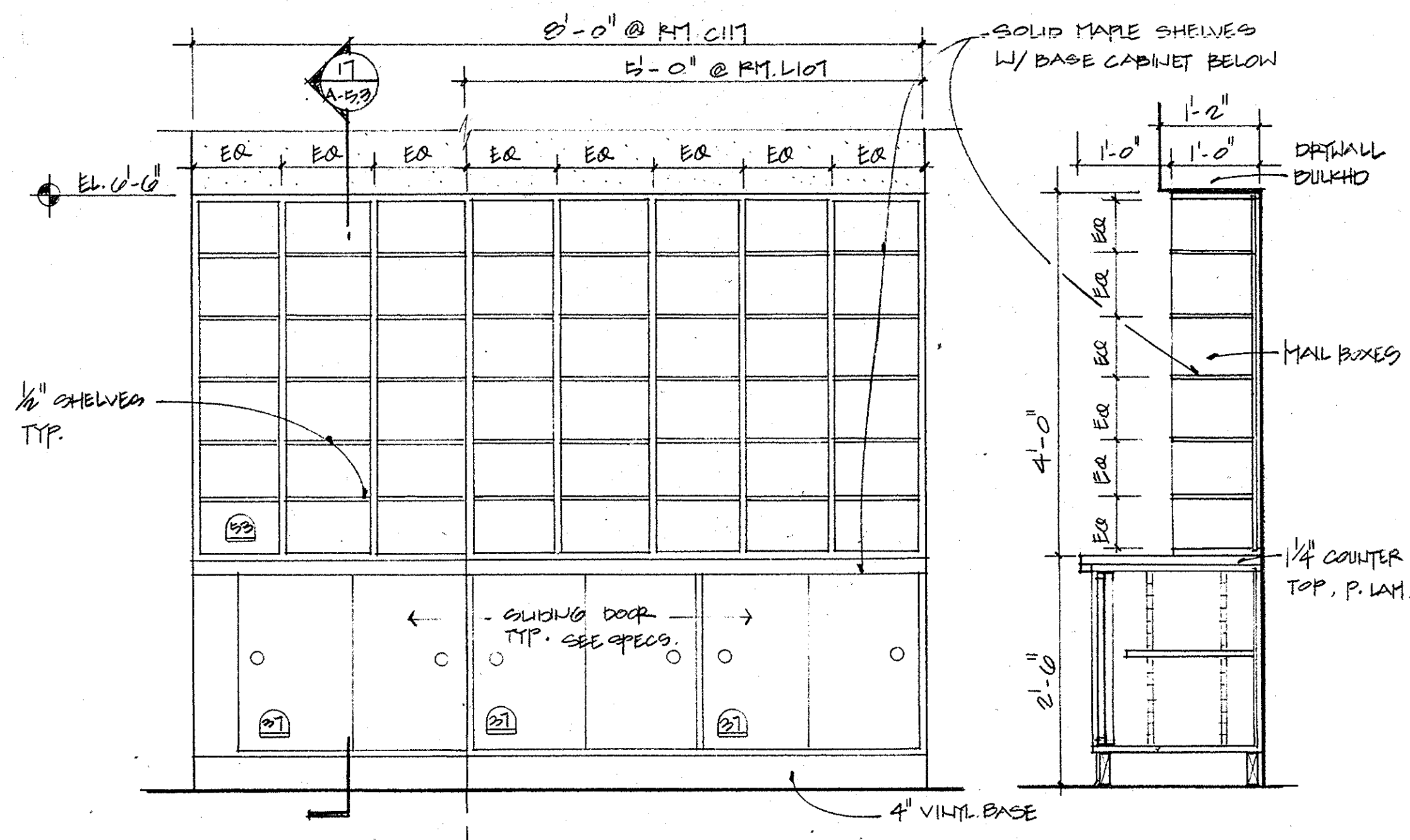
**5 KIOSK AXONOMETRIC VIEW**  
N.T.S.



**2 KIOSK DETAILS**  
SCALE: 3/4"=1'-0"

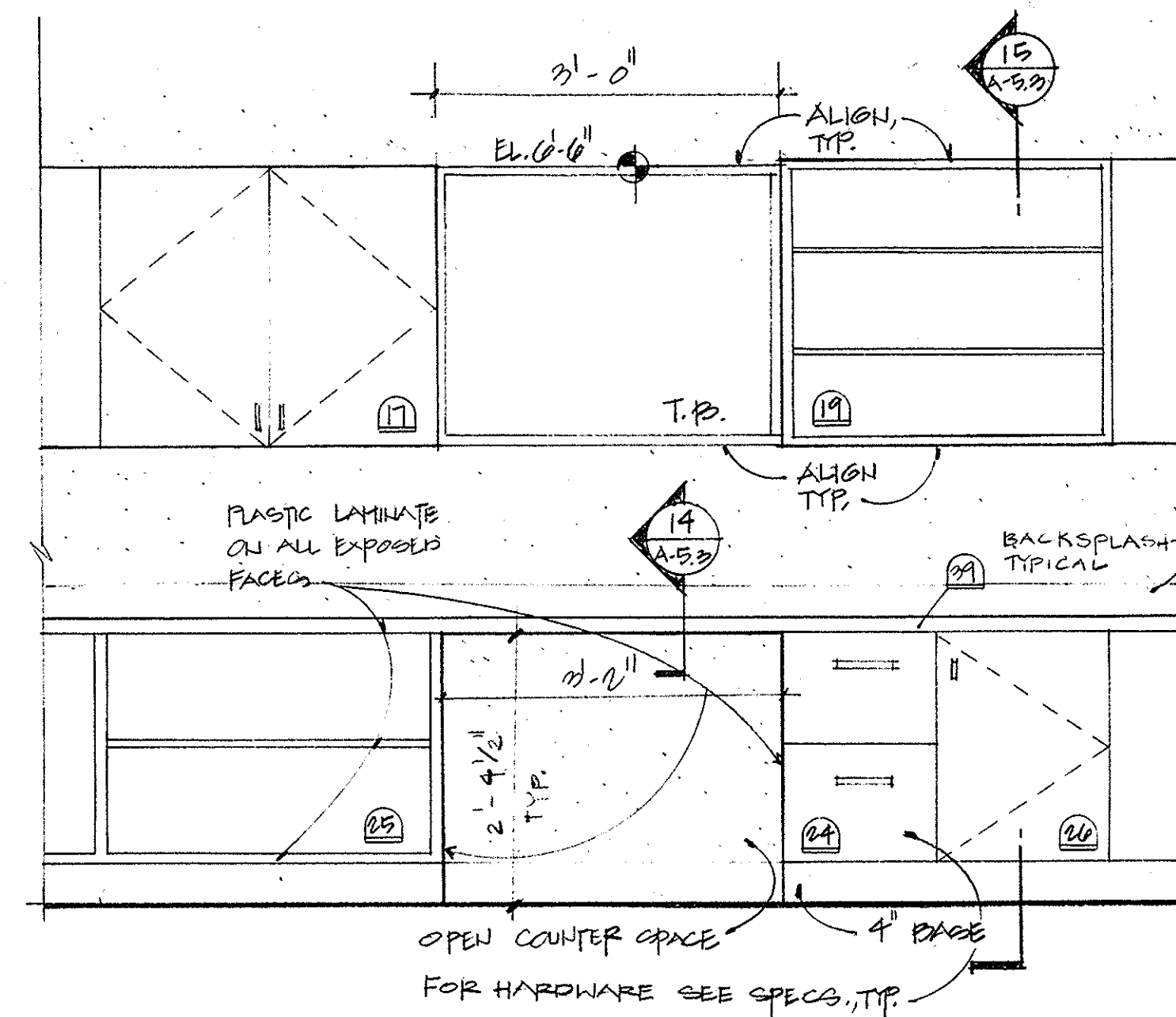


**1 SECTION THRU. RECP. @ RM C102**  
SCALE: 3/4"=1'-0"

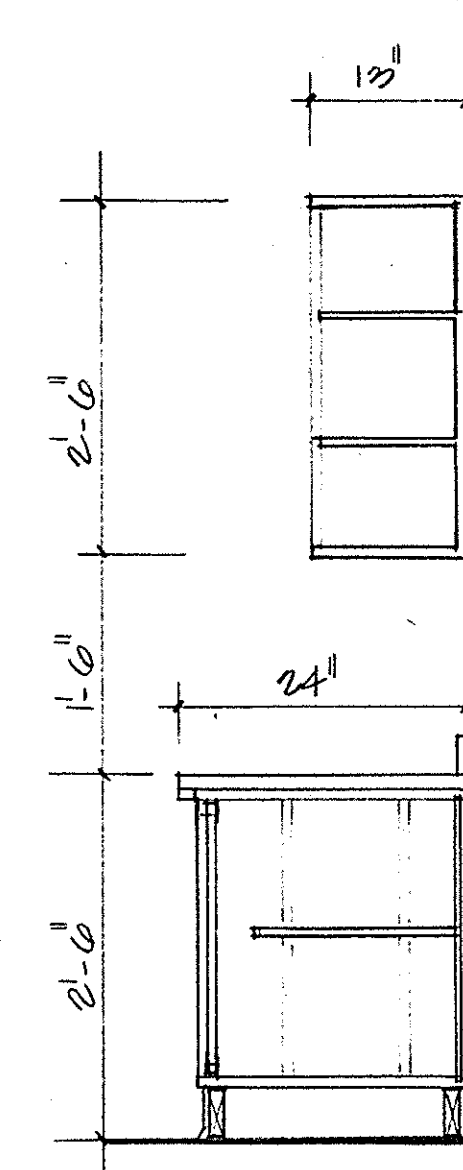


**18 MAIL BOXES WITH BASE CABINET**  
SCALE: 3/4"=1'-0"

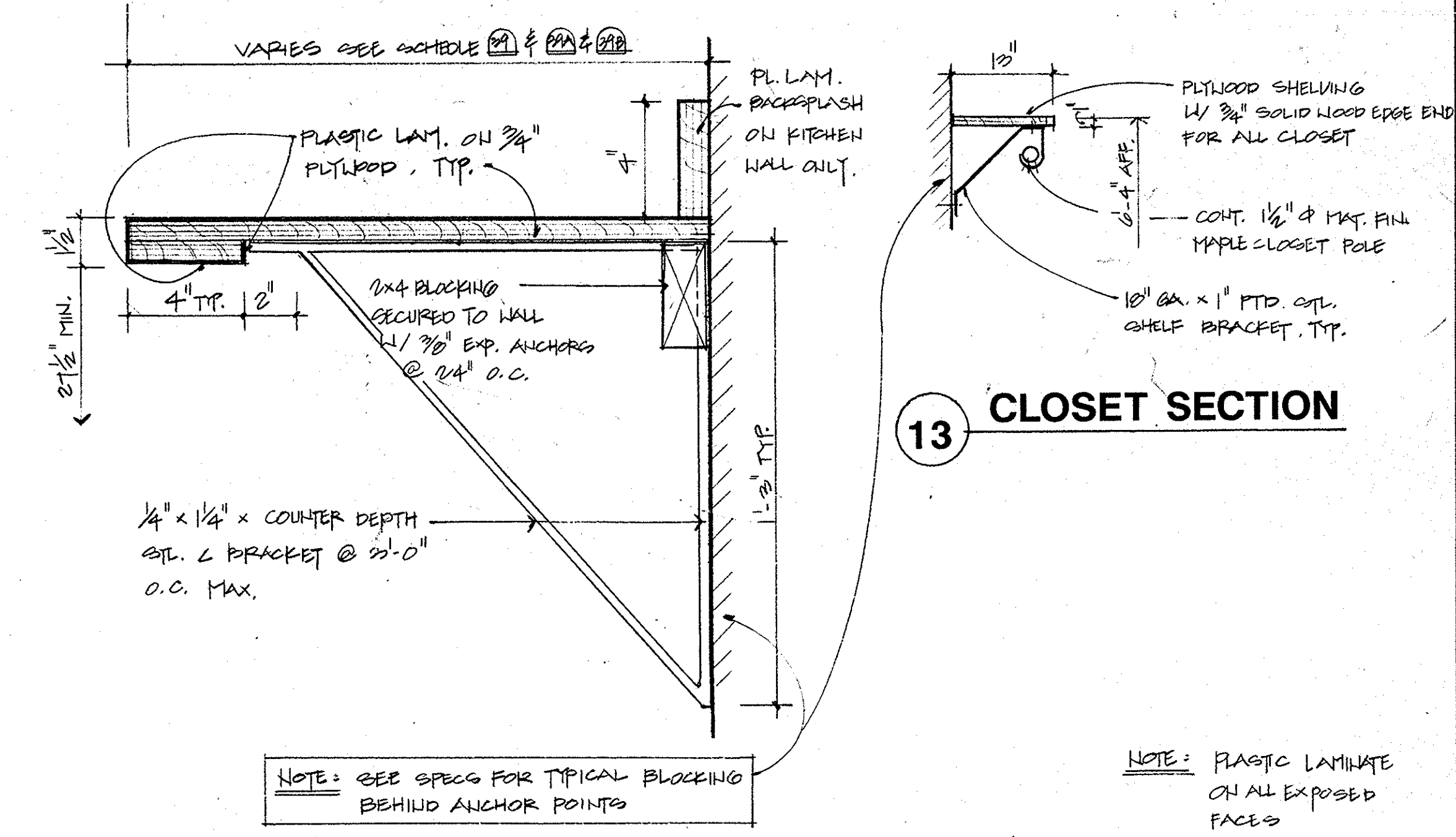
**17 SECTION**  
SCALE: 3/4"=1'-0"



**16 TYPICAL CASEWORK @ WORKROOM**  
SCALE: 3/4"=1'-0"



**15 SECTION**  
SCALE: 3/4"=1'-0"

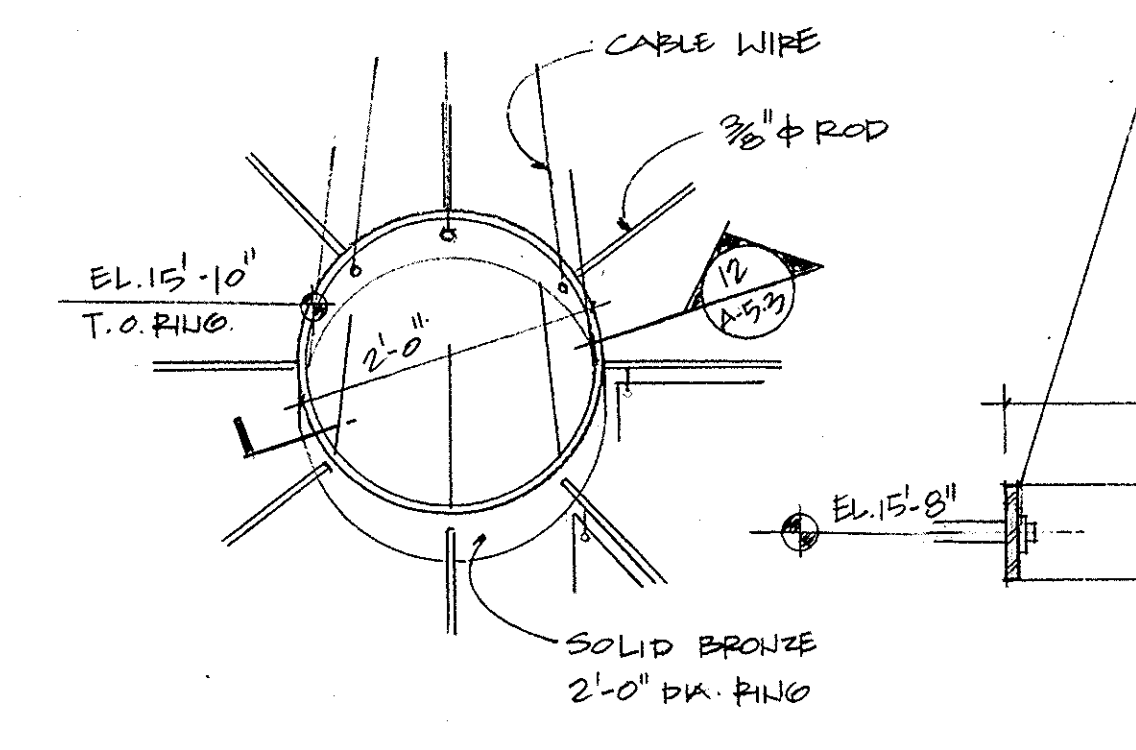


**14 TYPICAL COUNTER TOP**  
SCALE: 3"=1'-0"

**13 CLOSET SECTION**

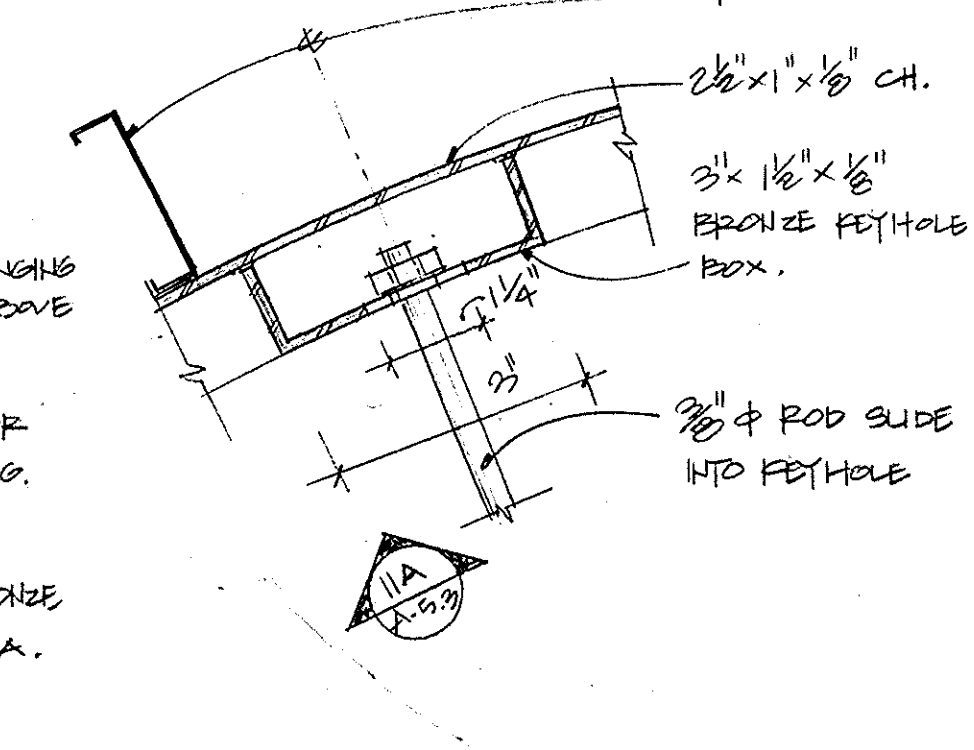
NOTE: SEE SPECS FOR TYPICAL BLOCKING BEHIND ANCHOR POINTS

NOTE: PLASTIC LAMINATE ON ALL EXPOSED FACES

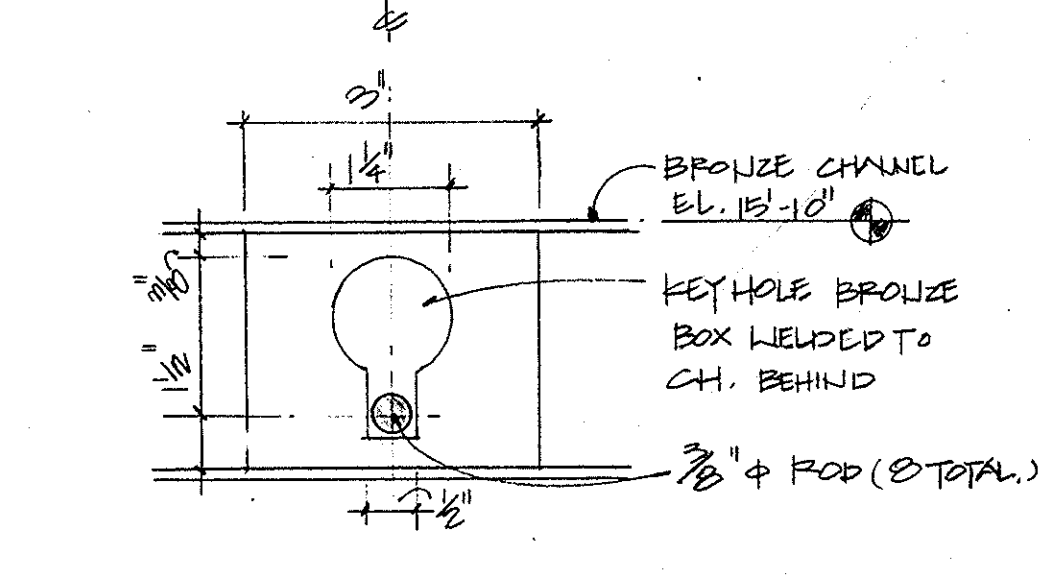


**12A CENTER RING DETAIL**  
SCALE: 3/4"=1'-0"

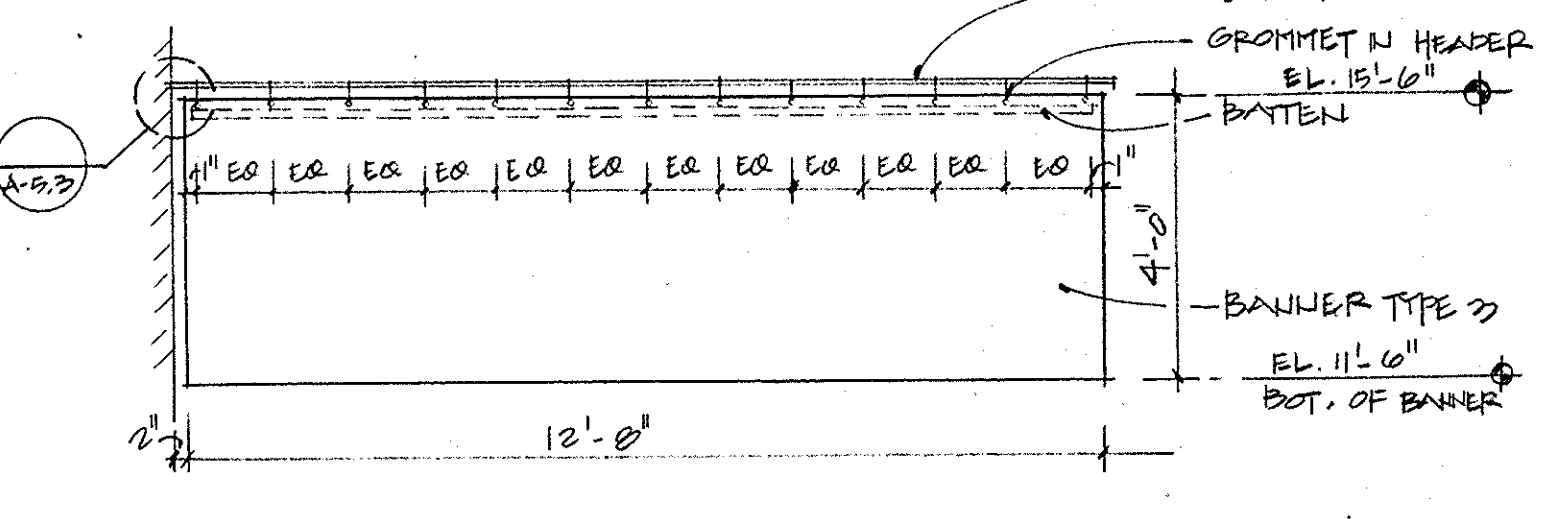
**12 SECTION**  
SCALE: 1 1/2"=1'-0"



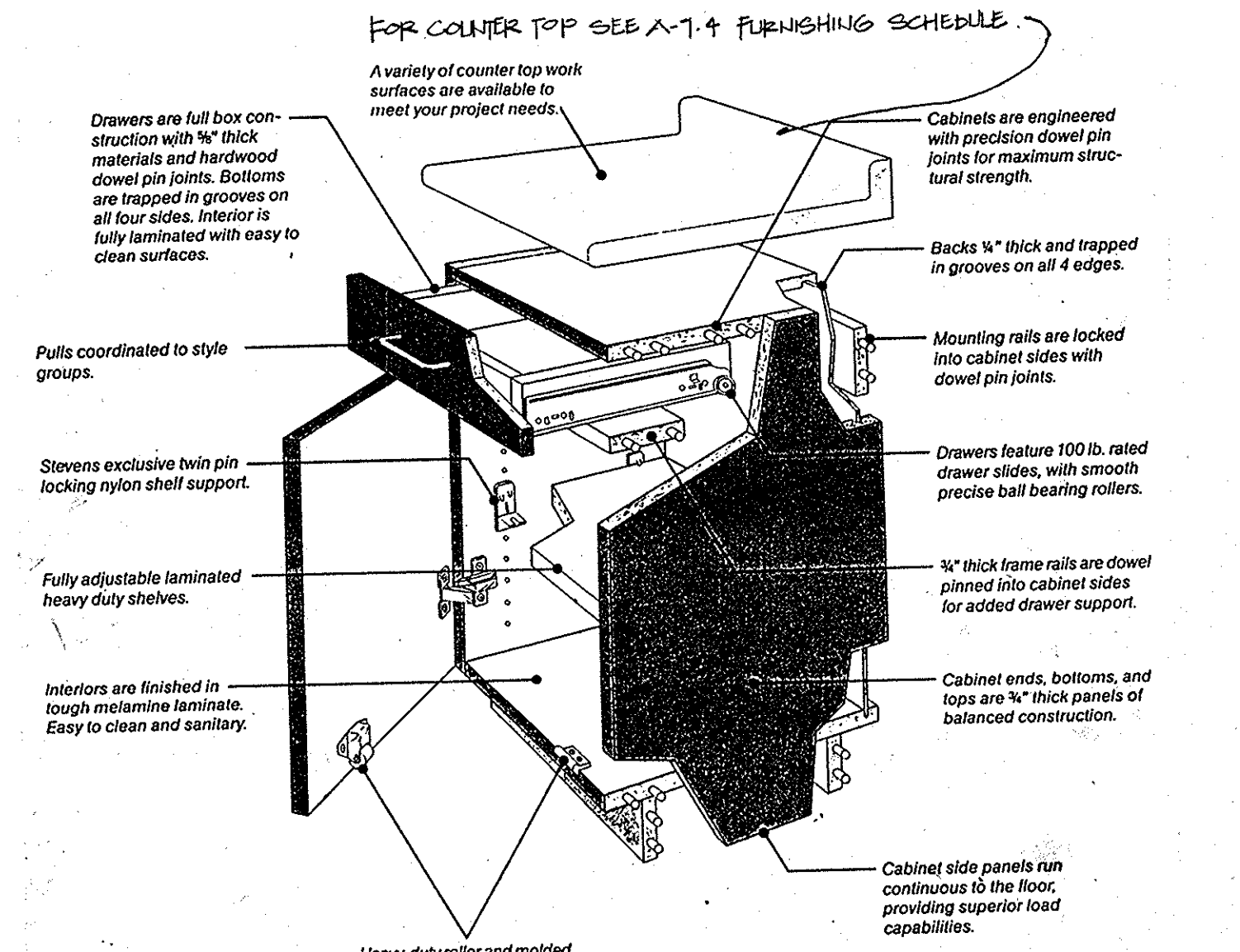
**11 KEY HOLE BOX PLAN**  
SCALE: 1/2"=1'-0"



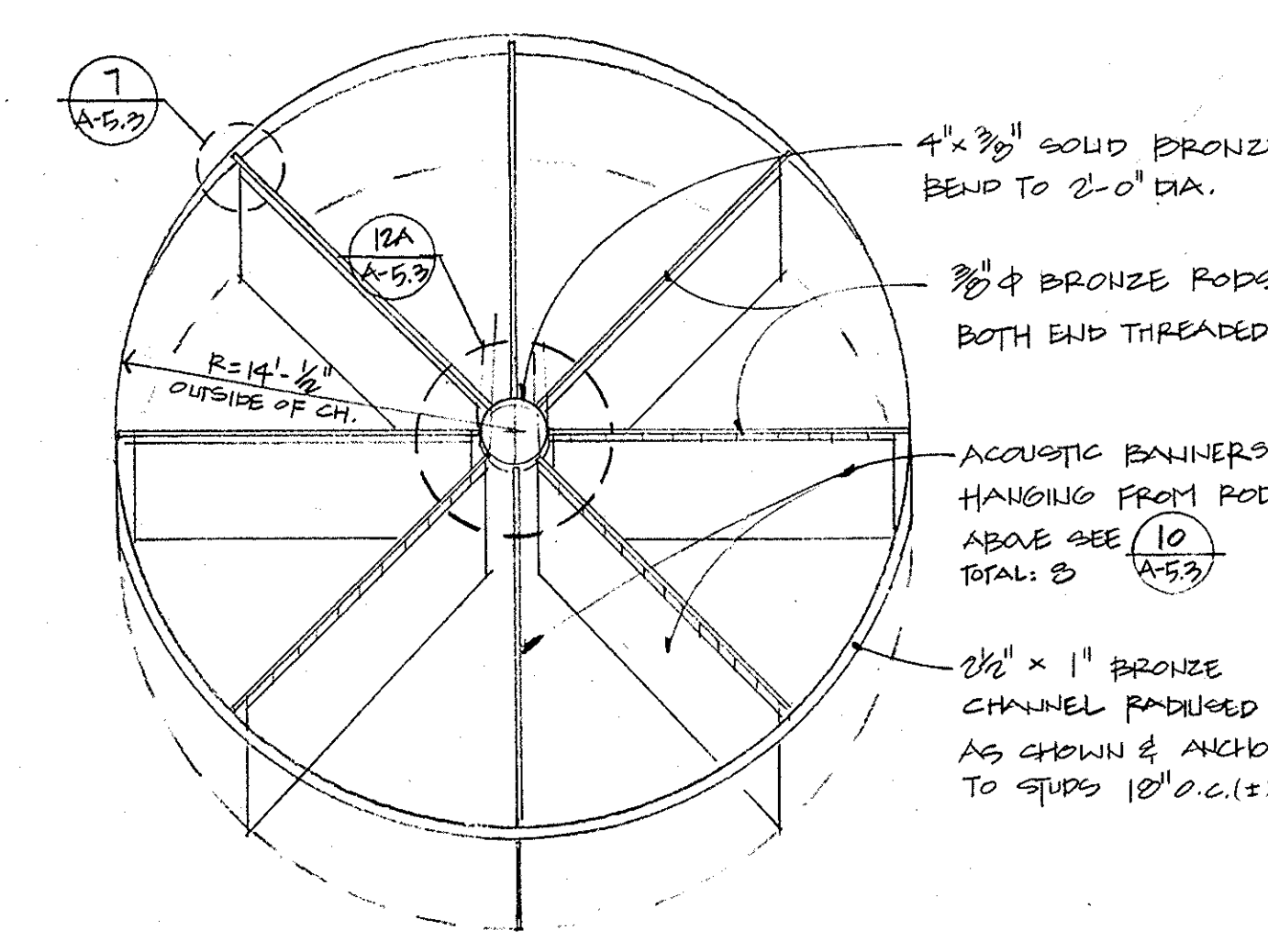
**11A ELEVATION**  
SCALE: 1/2"=1'-0"



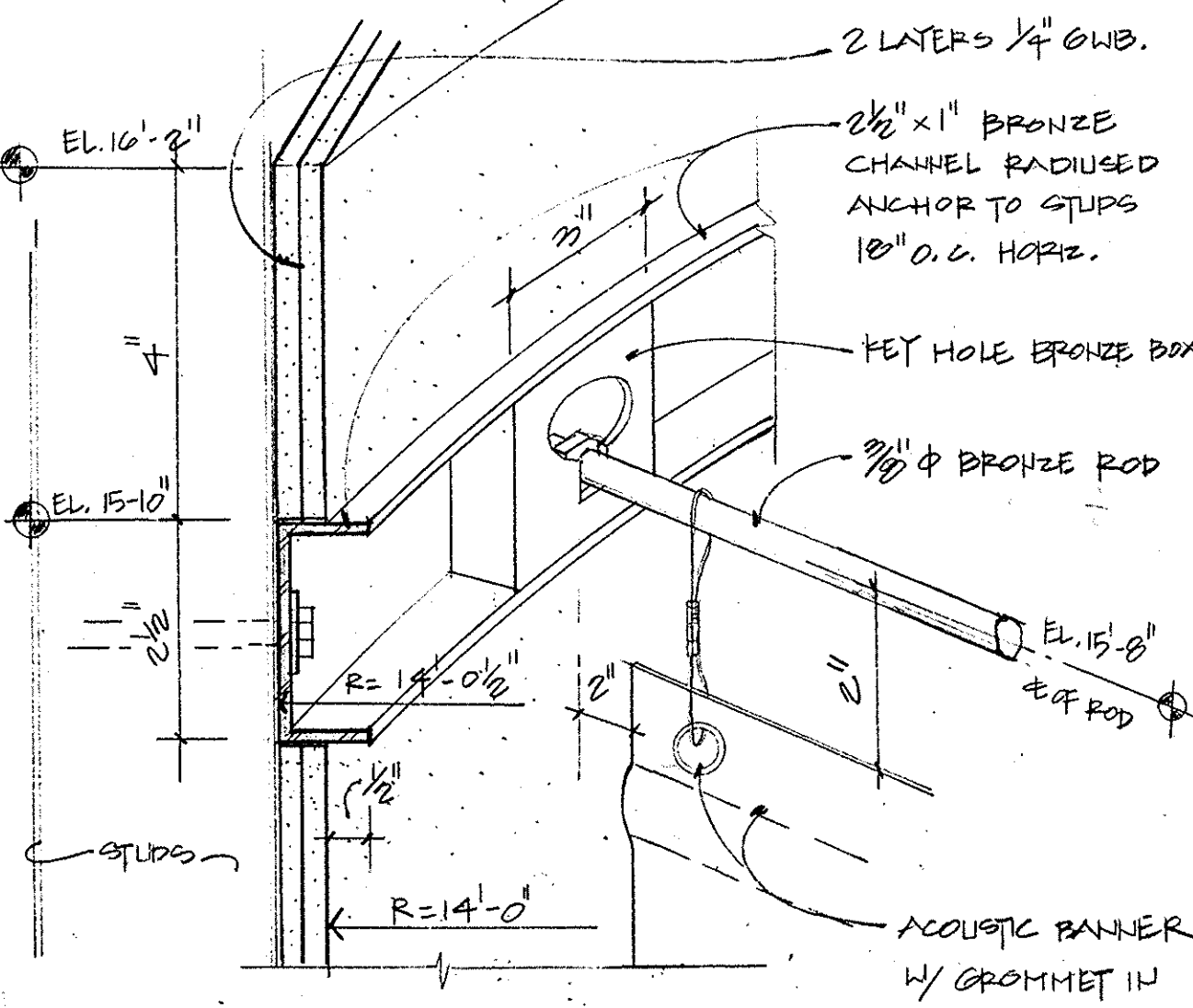
**10 BANNER TYPE 3 ELEVATION**  
@ RT. L-142A, INFO. DESK AREA SCALE: 3/8"=1'-0"



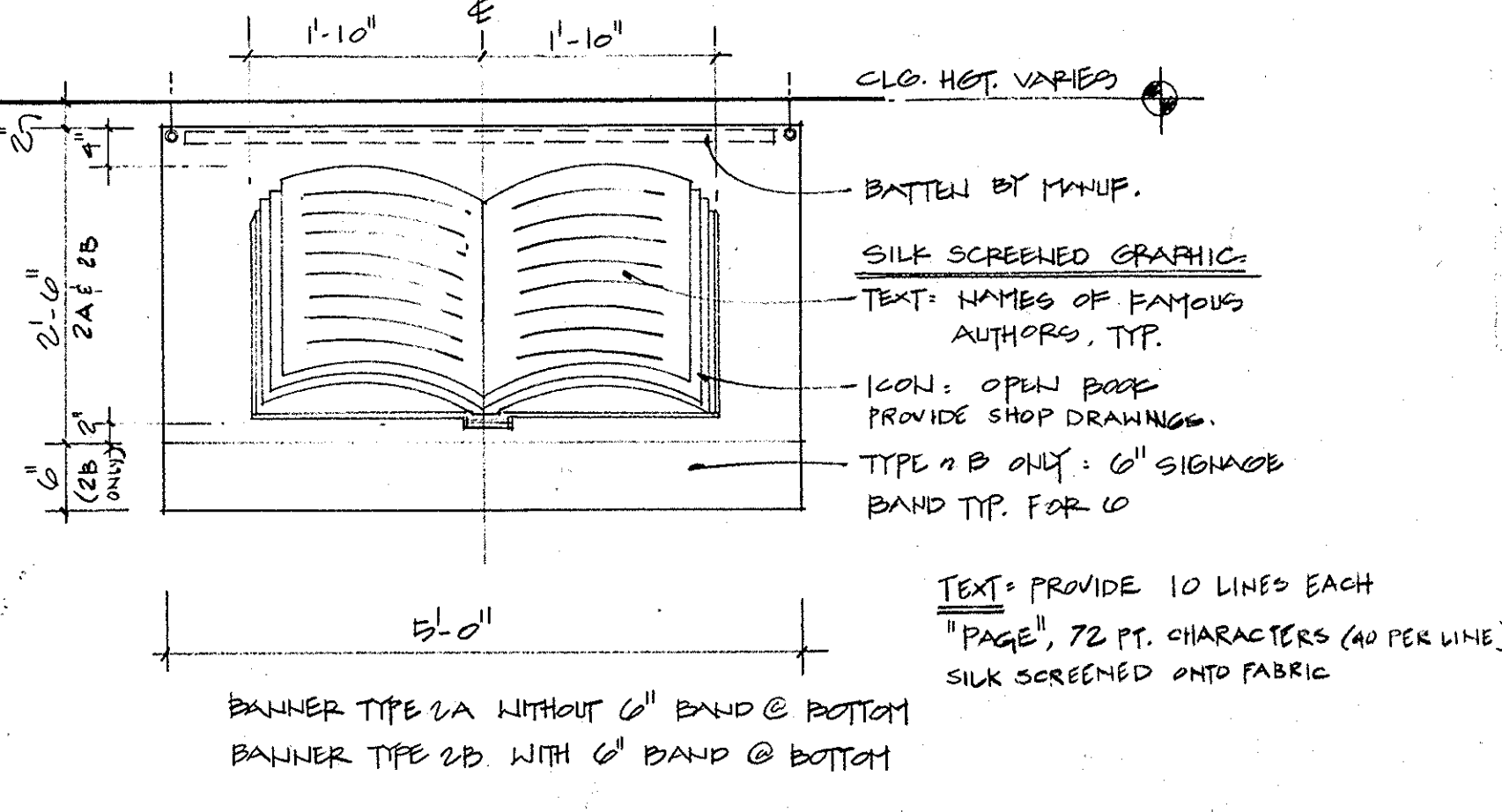
**5 TYPICAL CASEWORK**  
N.T.S.



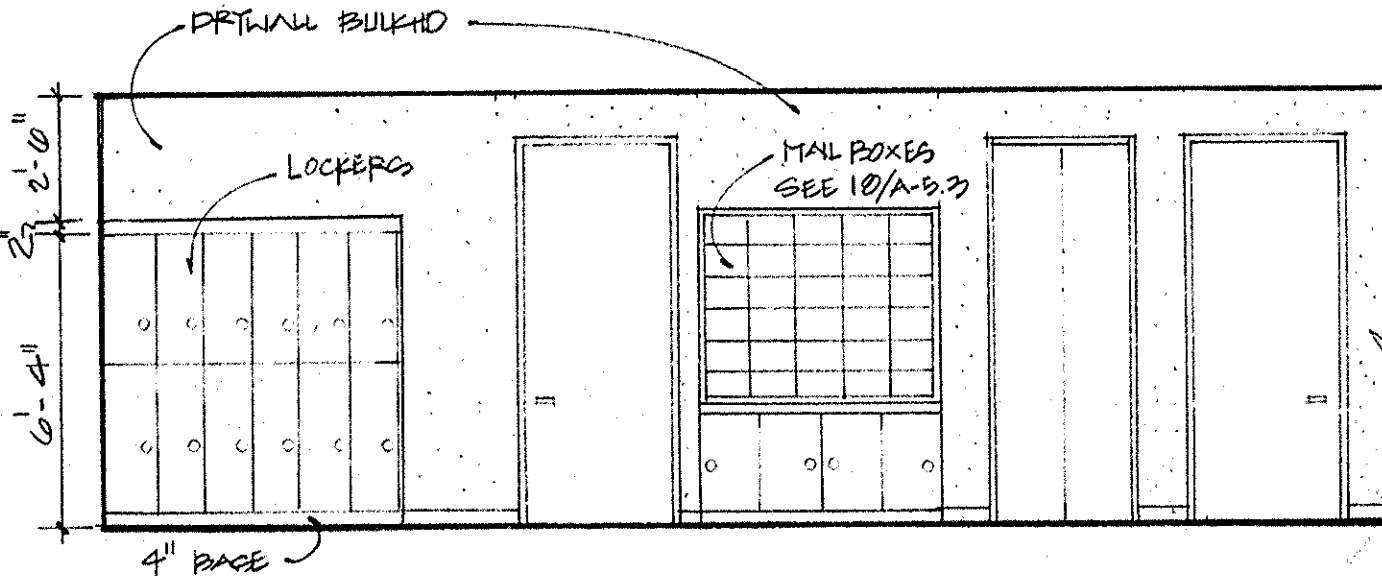
**8 ACOUSTIC BANNER TYPE 3 AXON**  
@ INFO. DESK AREA RT. L-142A N.T.S.  
SEE 4/1A-2/2



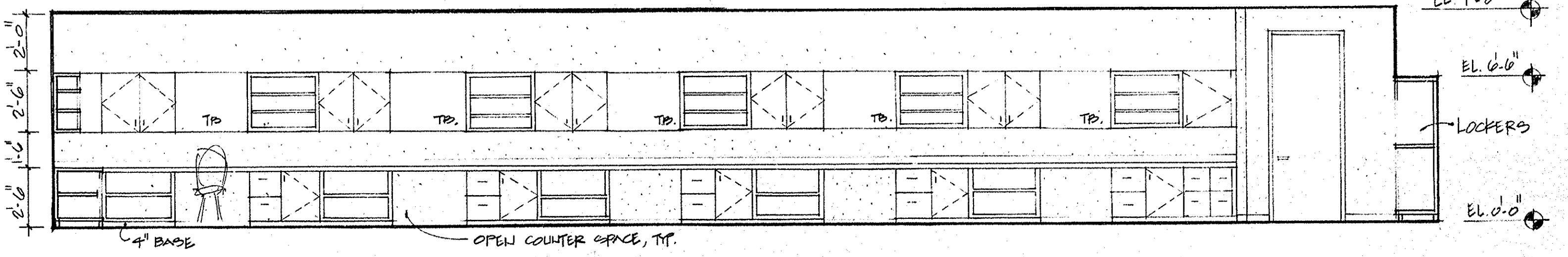
**7 BANNER TYPE 3 DETAIL**  
SCALE: 1 1/2"=1'-0"



**6 BANNER TYPE 2A,2B**  
@ READING AREA CORR. SCALE: 3/4"=1'-0"

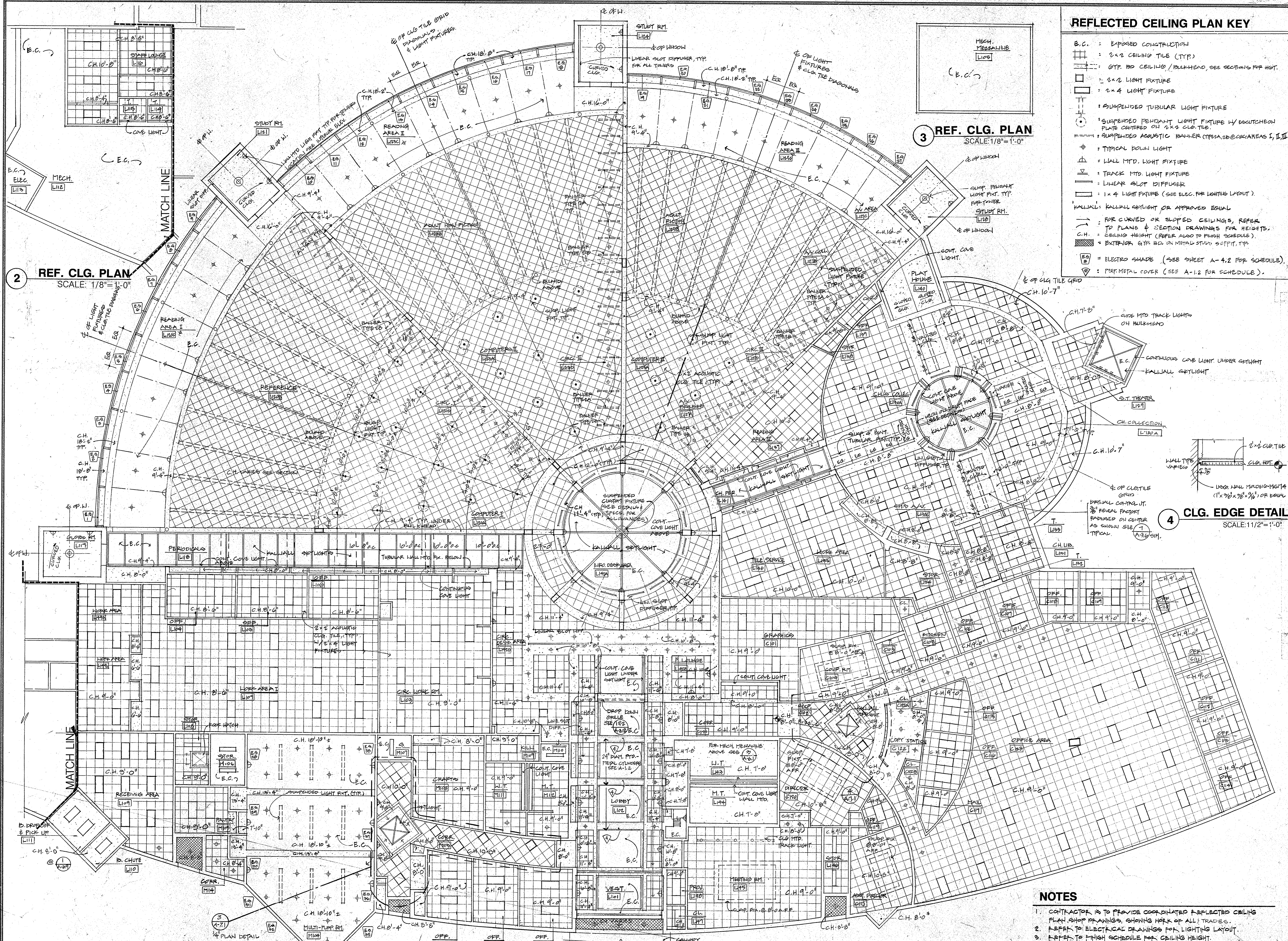


**2 ELEVATION L107**  
SCALE: 1/4"=1'-0"



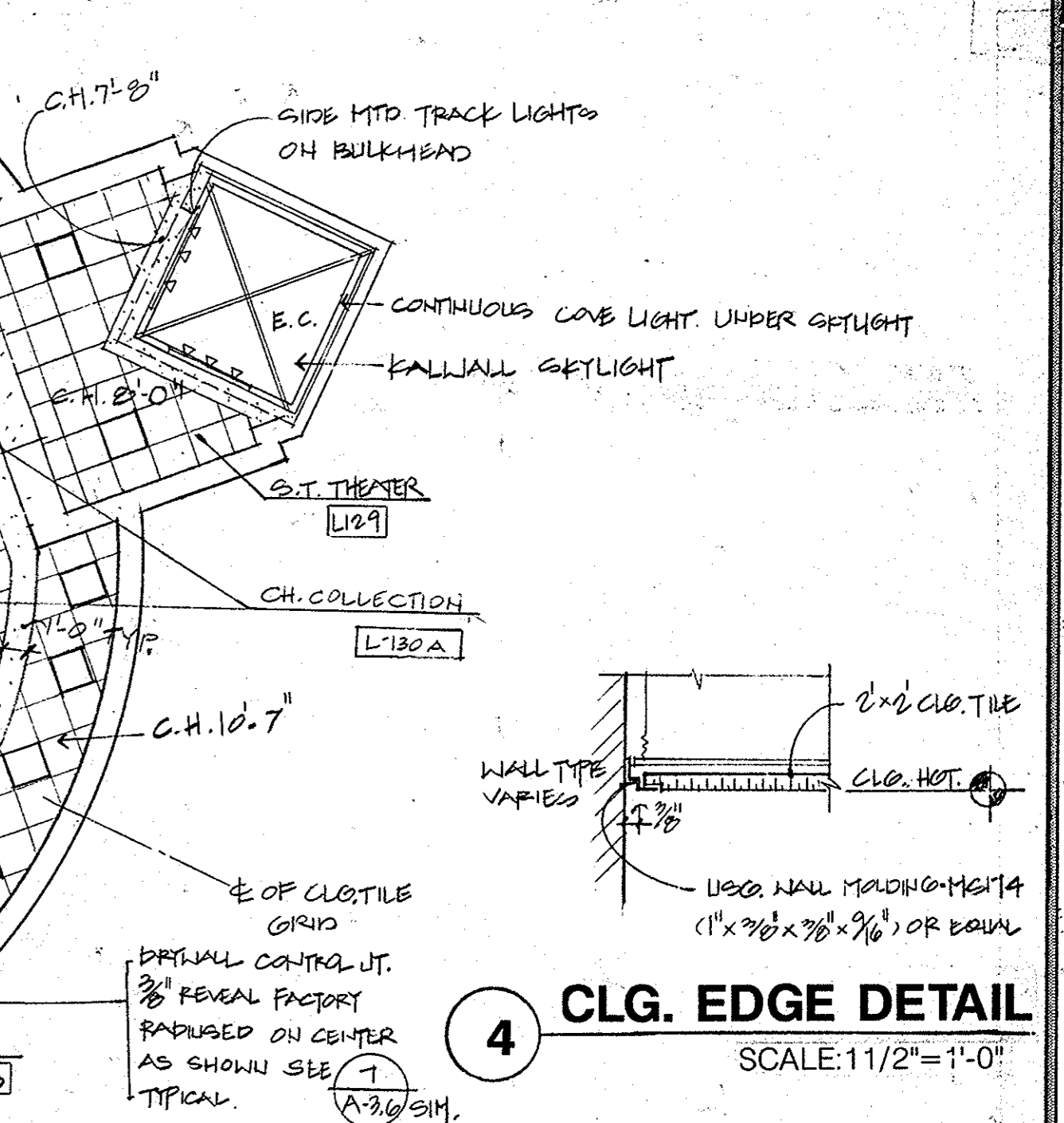
**1 ELEVATION L107**  
SCALE: 1/4"=1'-0"

NOTE: FOR BUILT-IN BASE & WALL CABINETS SEE A-7.1, A-7.2 TYP.



**REFLECTED CEILING PLAN KEY**

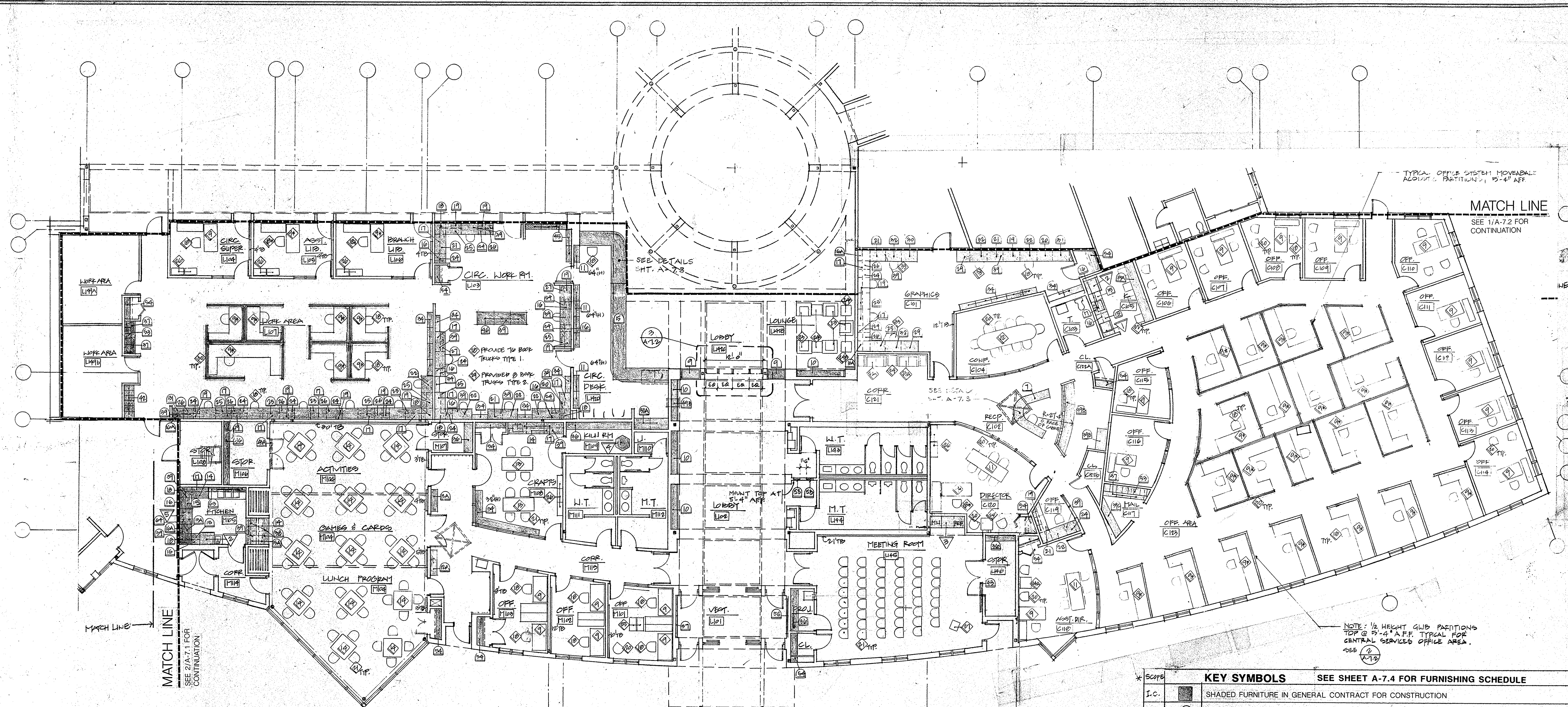
- E.C. = EXPOSED CONSTRUCTION
- 2x2 CEILING TILE (TYP)
- GYP. BD CEILING / BULKHEAD, SEE SECTIONS FOR HGT.
- 2x2 LIGHT FIXTURE
- 2x4 LIGHT FIXTURE
- SUSPENDED TUBULAR LIGHT FIXTURE
- SUSPENDED PENDANT LIGHT FIXTURE W/ ESCUTCHEON PLATE CENTERED ON 2x2 CLG. TILE.
- SUSPENDED ACOUSTIC BANNER (MFRS: 2B@CIRCAREAS I, II, III)
- TYPICAL DOWN LIGHT
- WALL MTD. LIGHT FIXTURE
- TRACK MTD. LIGHT FIXTURE
- LINEAR SLOT DIFFUSER
- 1x4 LIGHT FIXTURE (SEE ELEC. FOR LIGHTING LAYOUT)
- KALLIAL: KALLIAL SKYLIGHT OR APPROVED EQUAL
- FOR CURVED OR SLOPED CEILINGS, REFER TO PLANS & SECTION DRAWINGS FOR HEIGHTS.
- C.H. = CEILING HEIGHT (REFER ALSO TO FINISH SCHEDULE).
- EXT. = EXTERIOR GYP. BD ON METAL STUDS SUFFIT, TYP.
- E.S. = ELECTRO SHADE (SEE SHEET A-4.2 FOR SCHEDULE)
- P.M.C. = PERF. METAL COVER (SEE A-1.2 FOR SCHEDULE)



- NOTES**
1. CONTRACTOR IS TO PROVIDE COORDINATED REFLECTED CEILING PLAN SHOP DRAWINGS, SHOWING WORK OF ALL TRADES.
  2. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT.
  3. REFER TO FINISH SCHEDULE FOR CEILING HEIGHT.
  4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ITEMS NOT SHOWN ON PLANS. GRILLS, SPEAKERS, HEAT & SMOKE DETECTORS TO BE CENTERED IN TILES, UNLESS NOTED OTHERWISE.

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**REFLECTED CEILING PLAN**  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY, MARYLAND



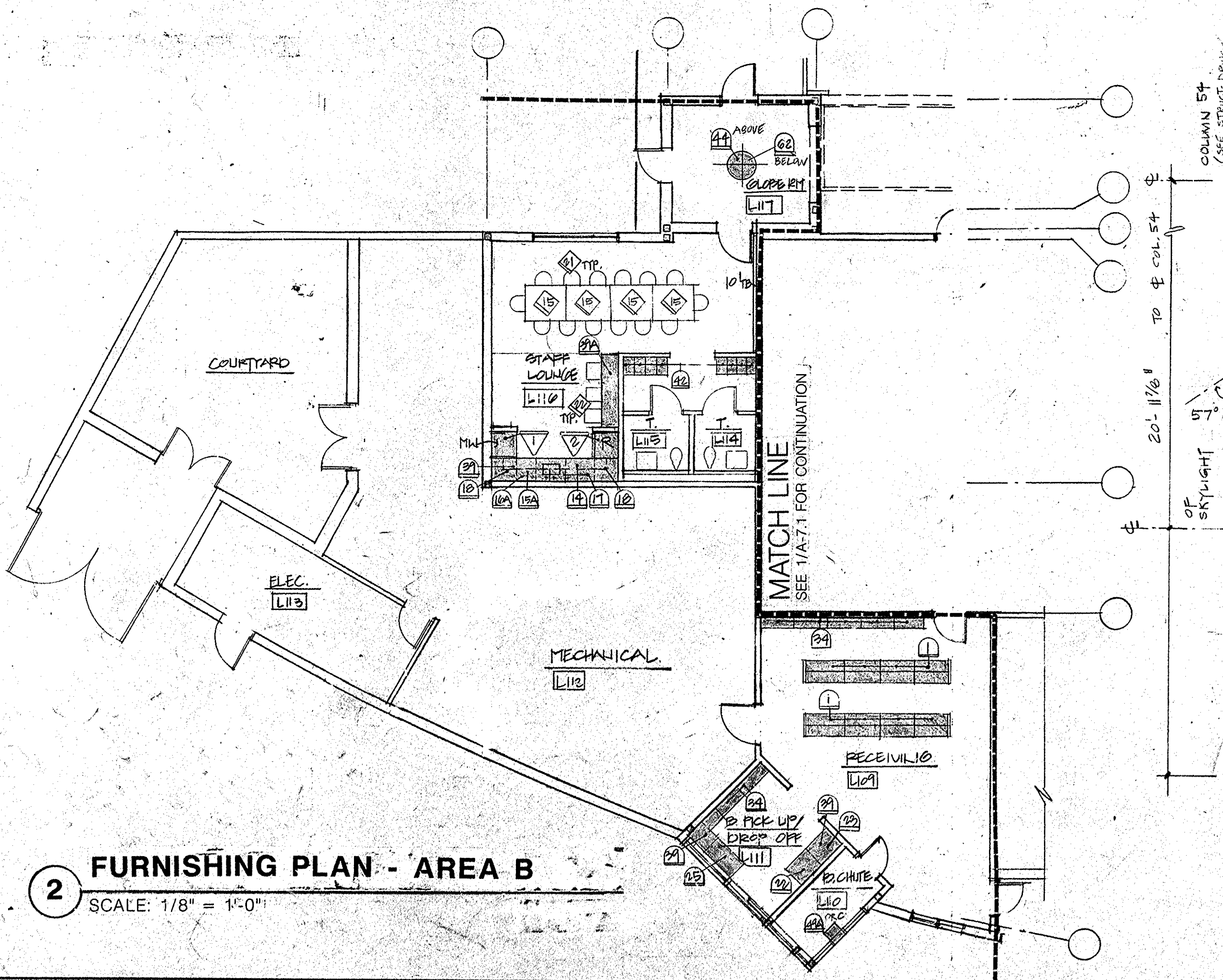
MATCH LINE  
SEE 1/A-7.2 FOR CONTINUATION

MATCH LINE  
SEE 2/A-7.1 FOR CONTINUATION

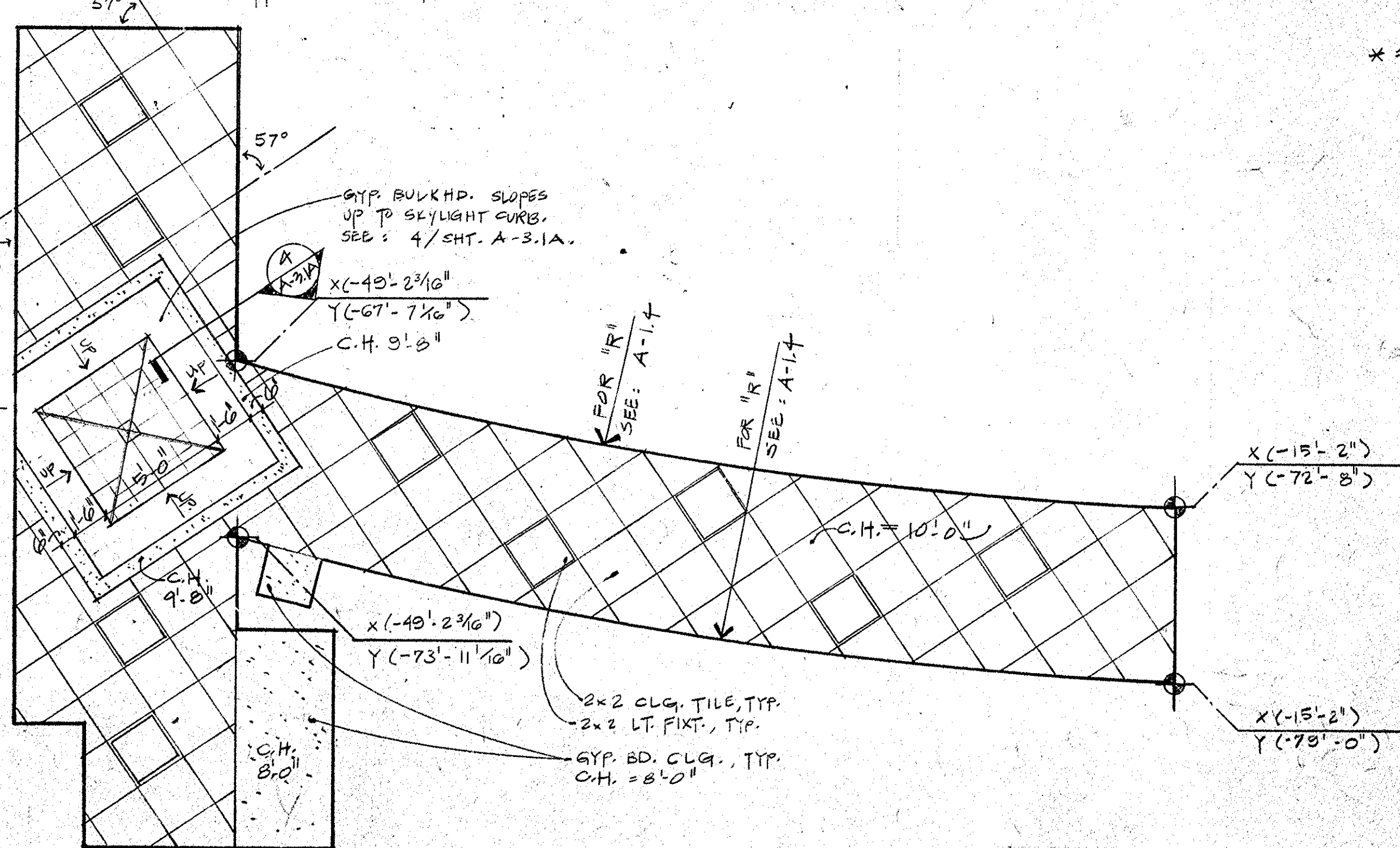
**1 FURNISHING PLAN - AREA A**  
SCALE: 1/8" = 1'-0"

KEY SYMBOLS		SEE SHEET A-7.4 FOR FURNISHING SCHEDULE
I.C.	[Symbol]	SHADED FURNITURE IN GENERAL CONTRACT FOR CONSTRUCTION
I.C.	[Symbol]	FURNISHING IN GENERAL CONTRACT FOR CONSTRUCTION (SEE FURNISHING SCHEDULE)
N.S.C.	[Symbol]	FURNITURE NOT IN GENERAL CONTRACT FOR CONSTRUCTION
I.C.	[Symbol]	KITCHEN APPLIANCES (SEE SCHEDULE @ A-5.2)
I.C.	[Symbol]	ARCH. WALL (TYPE VARIES SEE ARCH. DRWGS.)
I.C.	[Symbol]	GWB. PARTITION TOP @ 5'-4" AFF. (SEE PARTITION TYPE 1) 2/A-7.2
N.I.C.	[Symbol]	TYP. OFF. MOVEABLE ACOUSTIC PARTITION TOP @ 5'-8" AFF. (SEE 30 ON FURNITURE SCHEDULE)
I.C.	[Symbol]	FLOOR MATERIAL DESIGNATION: REFER TO FINISH SCHEDULE & GRAPHIC KEY (SHT. A-1.8)

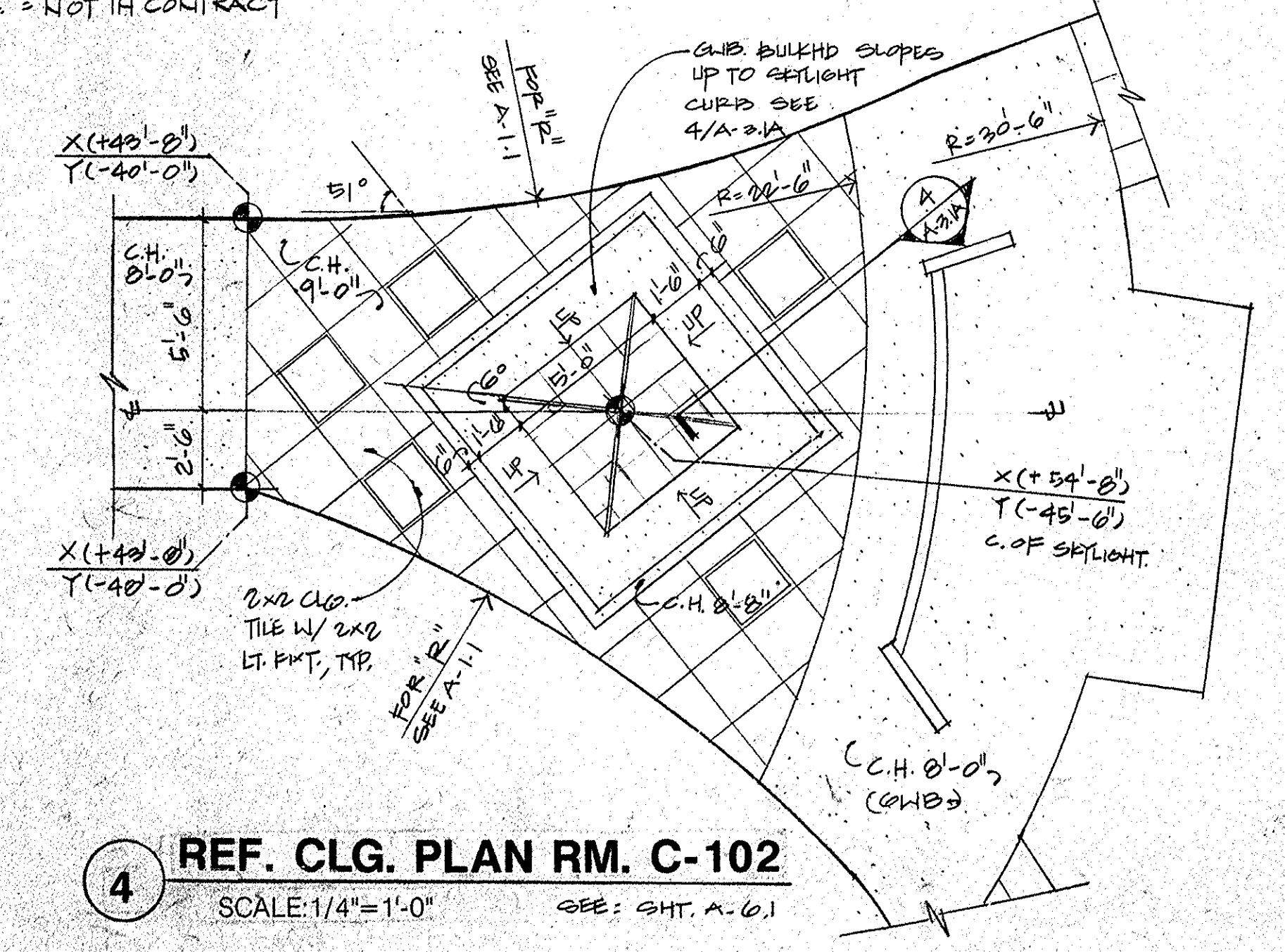
\* I.C. = IN CONTRACT  
N.I.C. = NOT IN CONTRACT



**2 FURNISHING PLAN - AREA B**  
SCALE: 1/8" = 1'-0"



**3 REF. CLG. PLAN RM. M-113**  
SCALE: 1/4" = 1'-0" SEE: SHT. A-6.1



**4 REF. CLG. PLAN RM. C-102**  
SCALE: 1/4" = 1'-0" SEE: SHT. A-6.1

NOTE: FURNITURE DESIGNATED W/ [Symbol] KEY SYMBOL IS NOT IN THIS GENERAL CONTRACT FOR CONSTRUCTION

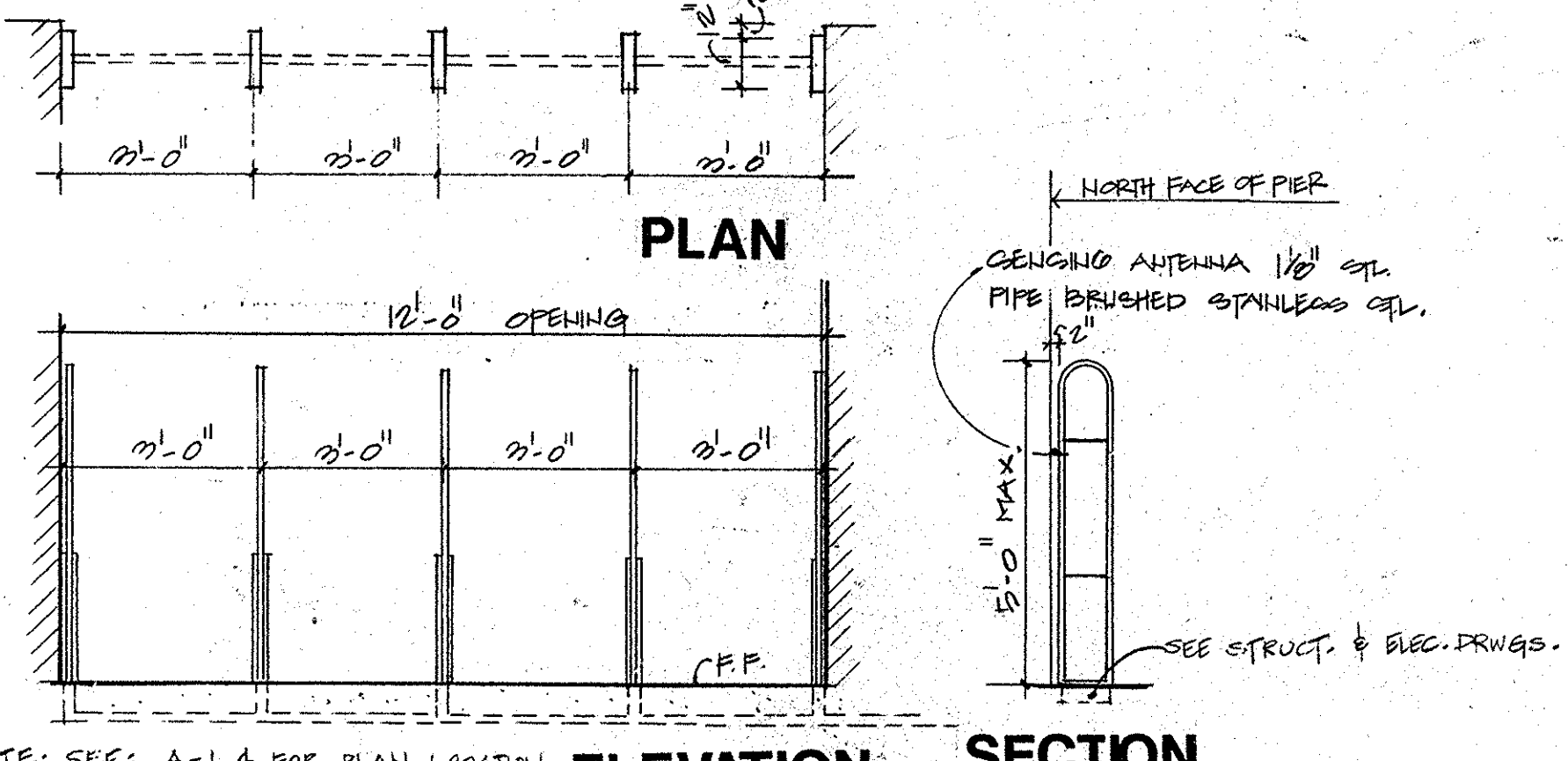
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**FURNISHING PLAN - AREA A & B**  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY MARYLAND

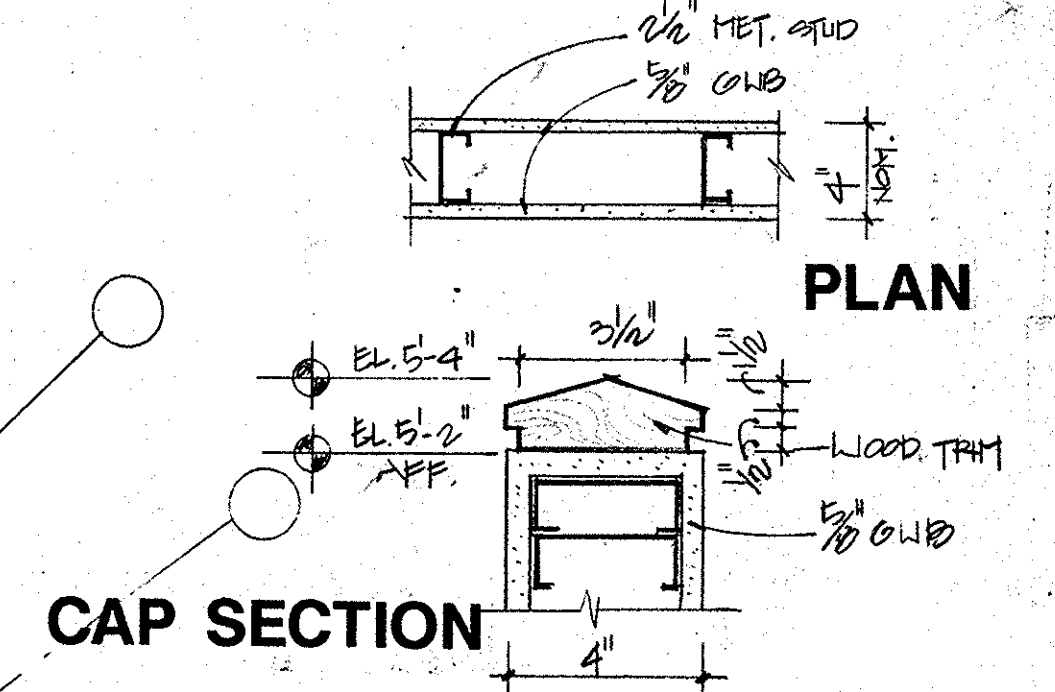
**A-7.1**  
BID SET  
18 FEB 92

SCOPE	KEY SYMBOLS	SEE SHEET A-7.4 FOR FURNISHING SCHEDULE
I.C.	[Symbol]	SHADED FURNITURE IN GENERAL CONTRACT FOR CONSTRUCTION
I.C.	[Symbol]	FURNISHING IN GENERAL CONTRACT FOR CONSTRUCTION (SEE FURNISHING SCHEDULE)
N.I.C.	[Symbol]	FURNITURE NOT IN GENERAL CONTRACT FOR CONSTRUCTION
I.C.	[Symbol]	KITCHEN APPLIANCES (SEE SCHEDULE @ A-5.2)
I.C.	[Symbol]	ARCH. WALL (TYPE VARIES SEE ARCH. DRWGS.)
I.C.	[Symbol]	GWB. PARTITION TOP @ 5'-4" AFF. (SEE PARTITION TYPE 1) 2/A-1.2.
N.I.C.	[Symbol]	TYP. OFF. MOVEABLE ACOUSTIC PARTITION TOP @ 5'-8" AFF. (SEE 30 ON FURNITURE SCHEDULE)
I.C.	[Symbol]	FLOOR MATERIAL DESIGNATION: REFER ALSO TO FINISH SCHEDULE & GRAPHIC KEY (SHT. A-1.3)

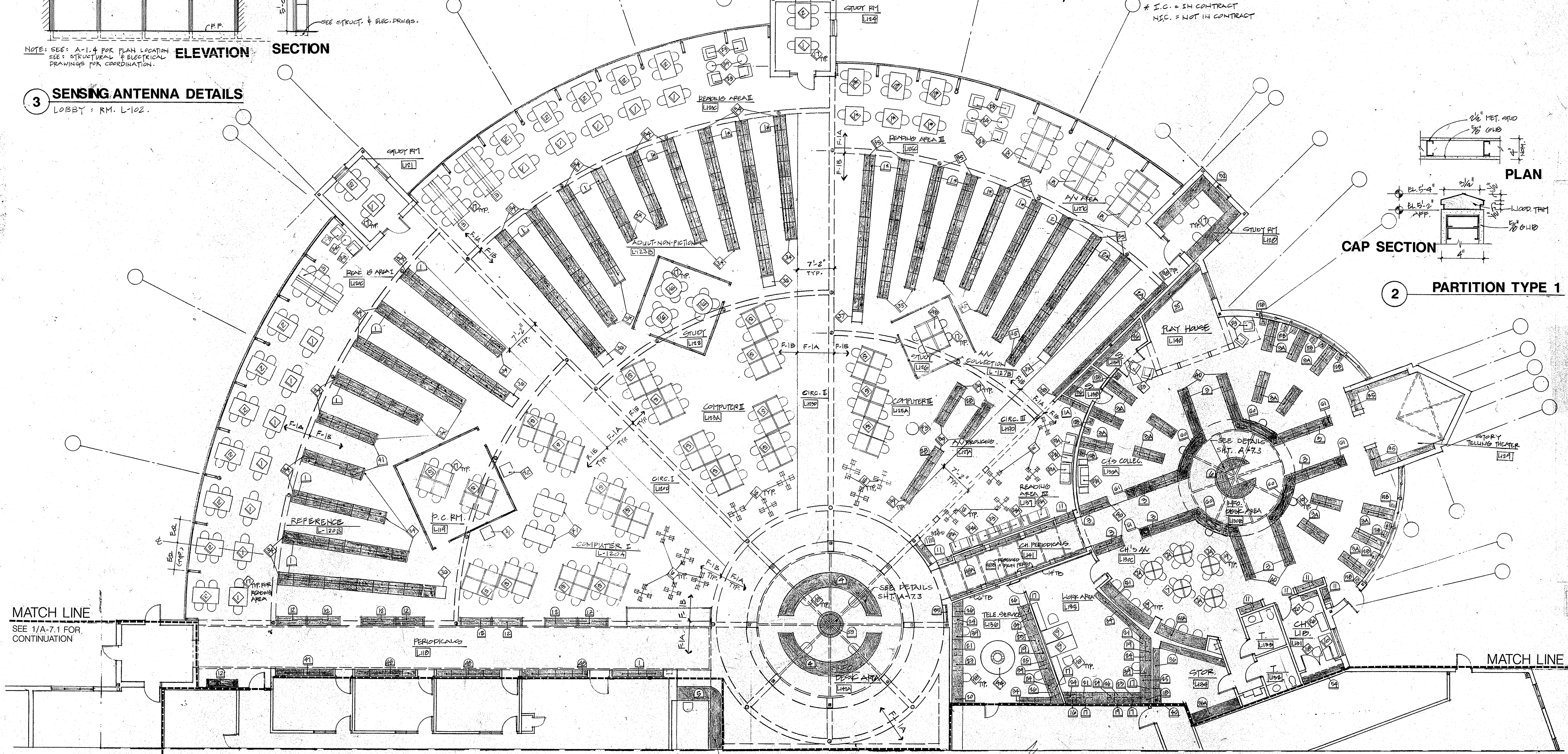
\* I.C. = IN CONTRACT  
N.I.C. = NOT IN CONTRACT



**3 SENSING ANTENNA DETAILS**  
LOBBY: RM. L-102.



**2 PARTITION TYPE 1**



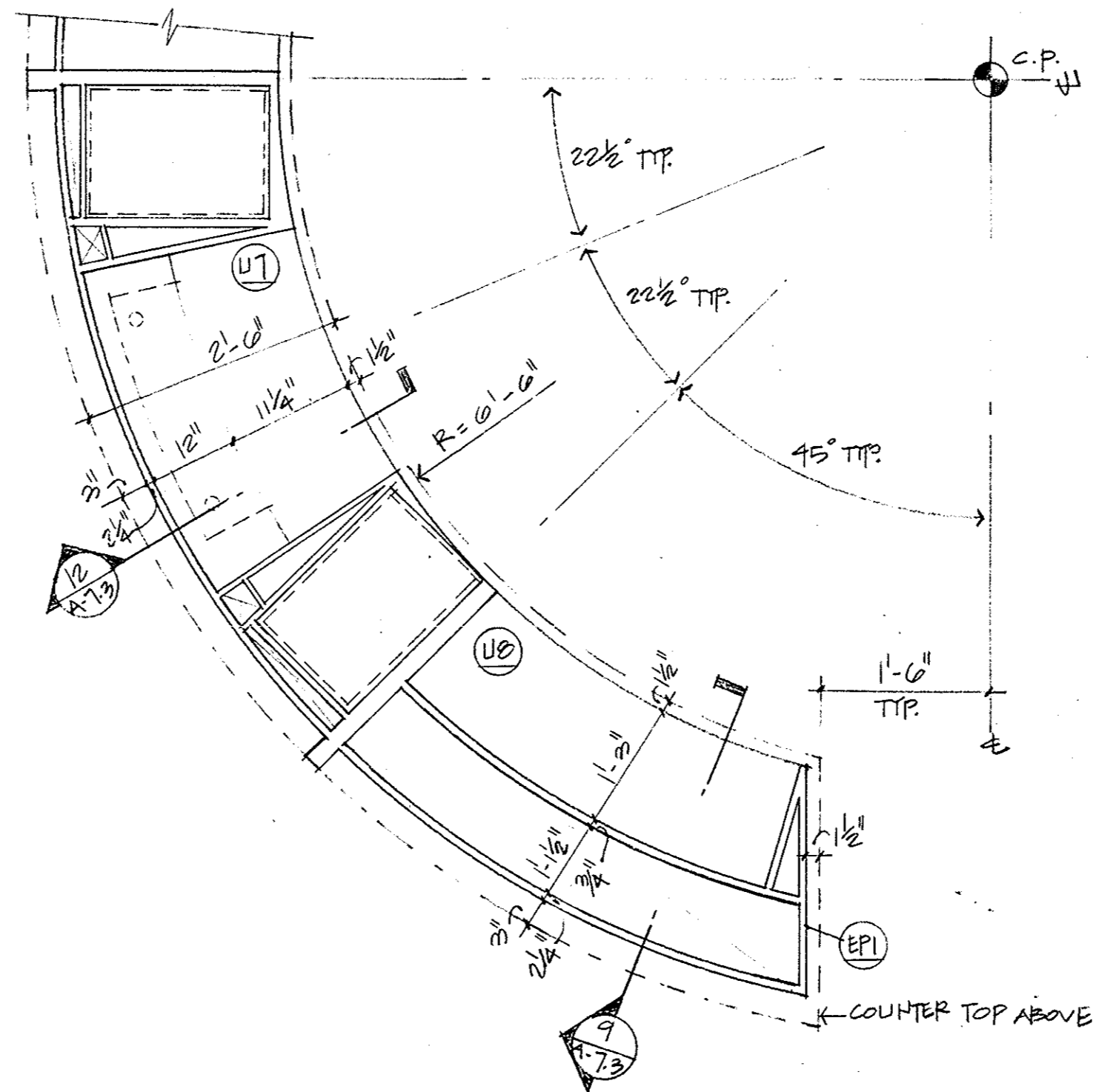
**1 FURNISHING PLAN - AREA C**  
SCALE: 1/8" = 1'-0"

NOTE: FURNITURE DESIGNATED W/ [Symbol] KEY SYMBOL IS NOT IN THIS GENERAL CONTRACT FOR CONSTRUCTION

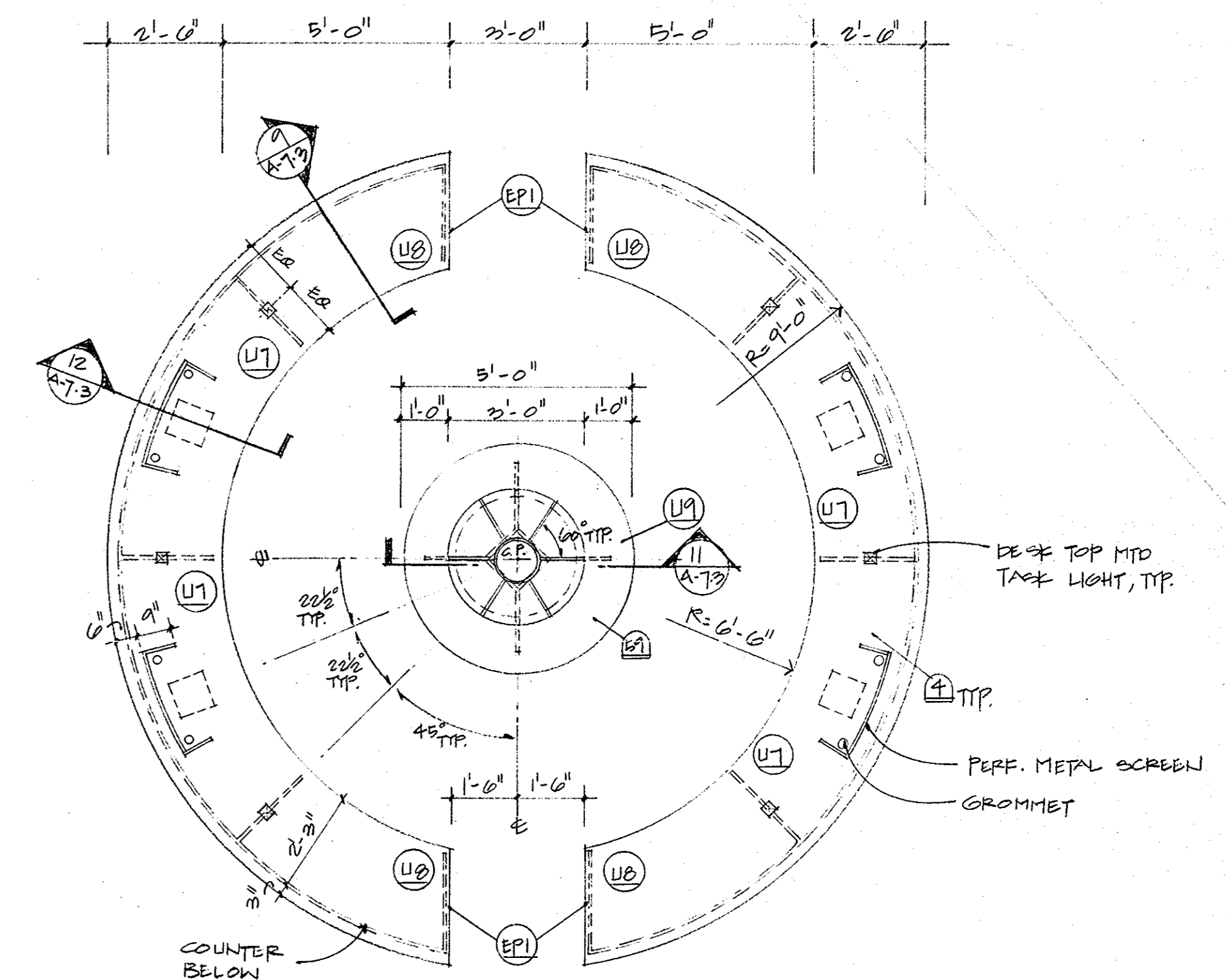
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FURNISHING PLAN - AREA C  
 EAST COLUMBIA LIBRARY  
 HOWARD COUNTY MARYLAND

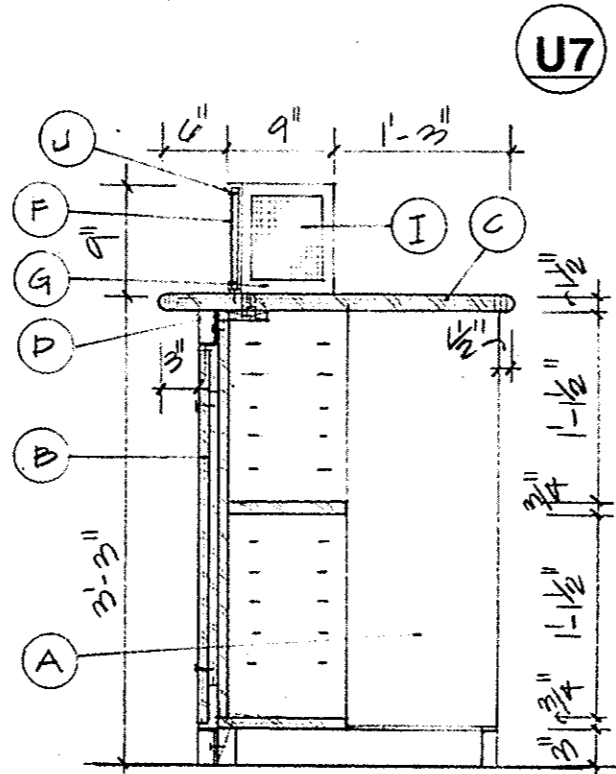
**A-7.2**  
 BID SET  
 18 FEB 92



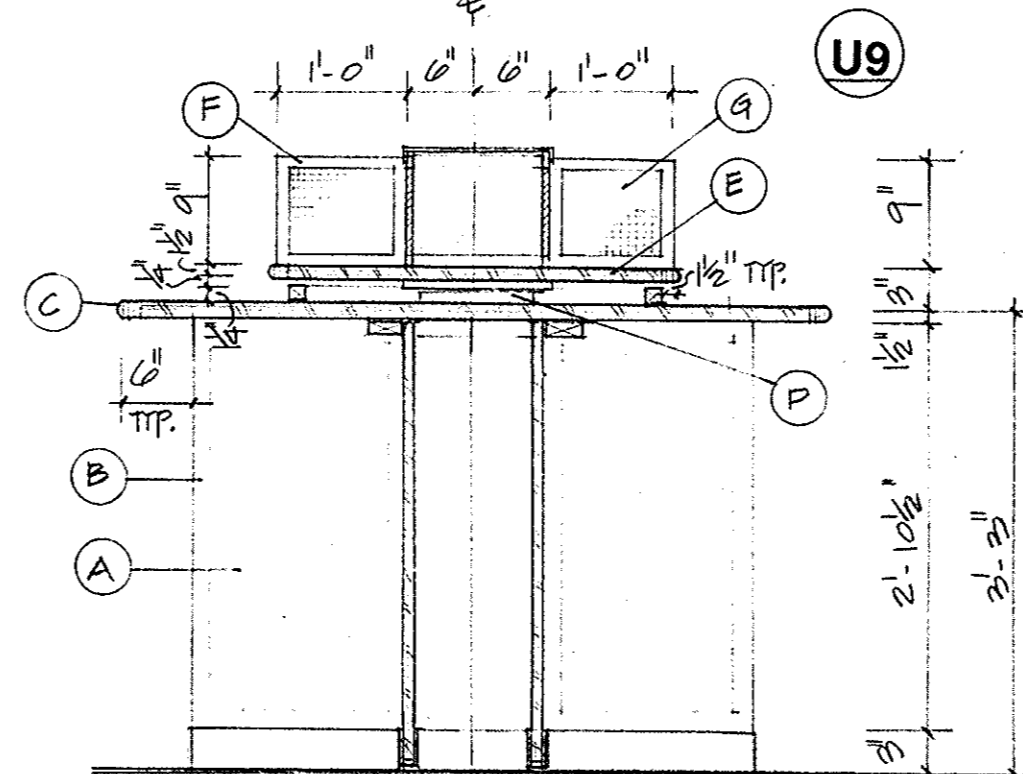
14 INFO. COUNTERS PLAN DETAIL  
SCALE: 3/4"=1'-0" BELOW COUNTER @ 2'-0" AFF.



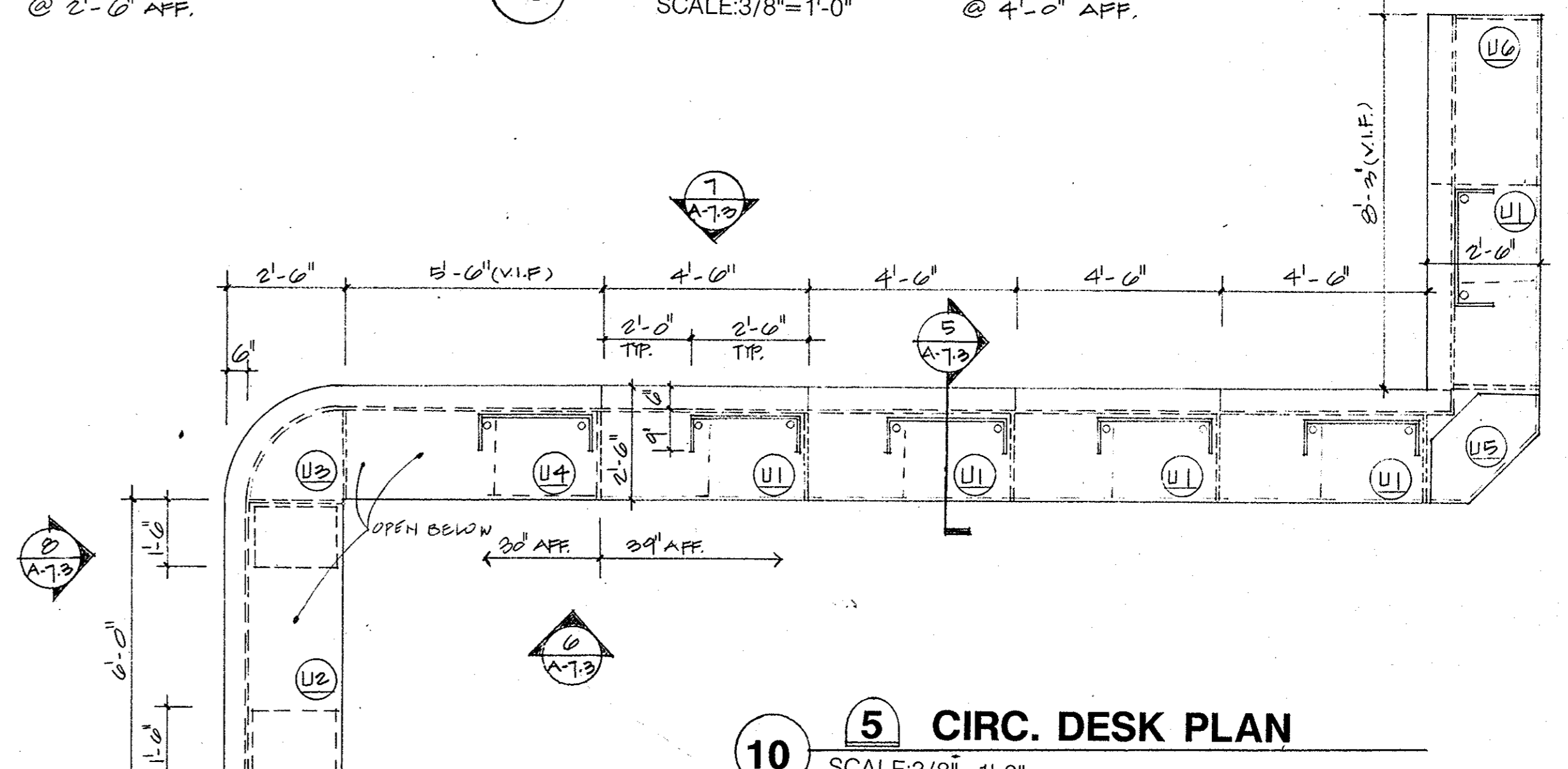
13 INFO. COUNTERS & REVOLVING TABLE PLAN  
SCALE: 3/8"=1'-0" @ 4'-0" AFF.



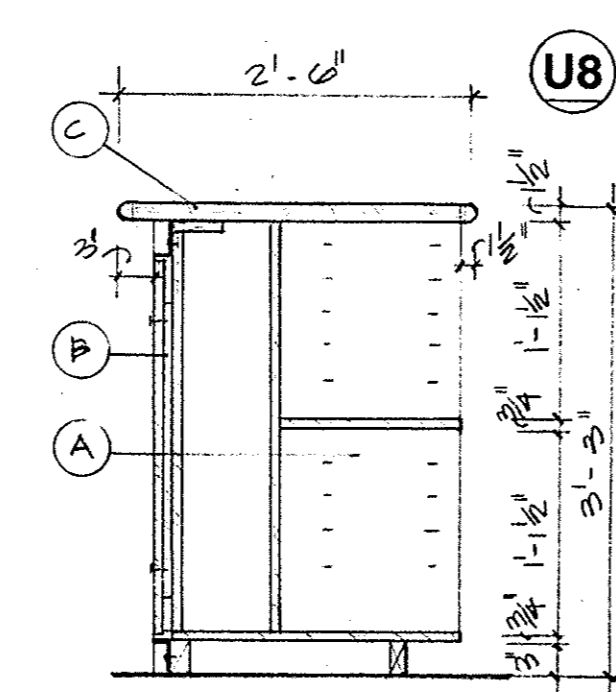
12 SECTION  
SCALE: 3/4"=1'-0"



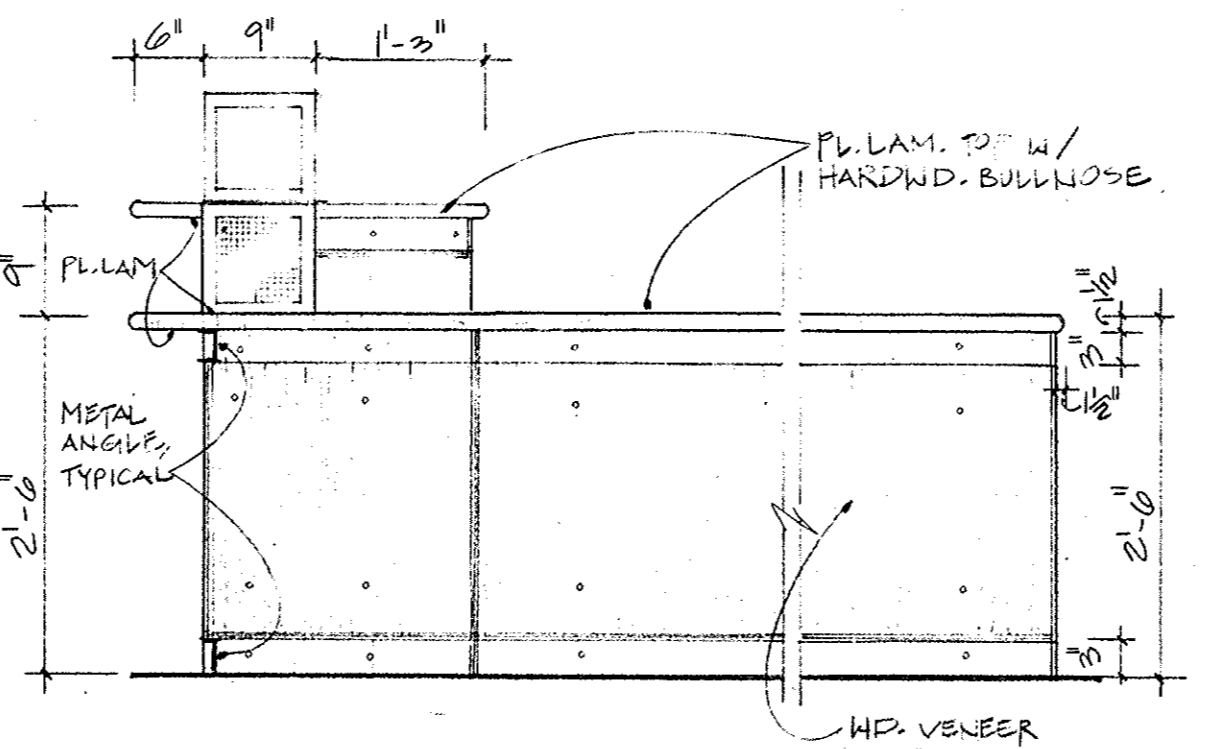
11 SECTION  
SCALE: 3/4"=1'-0"



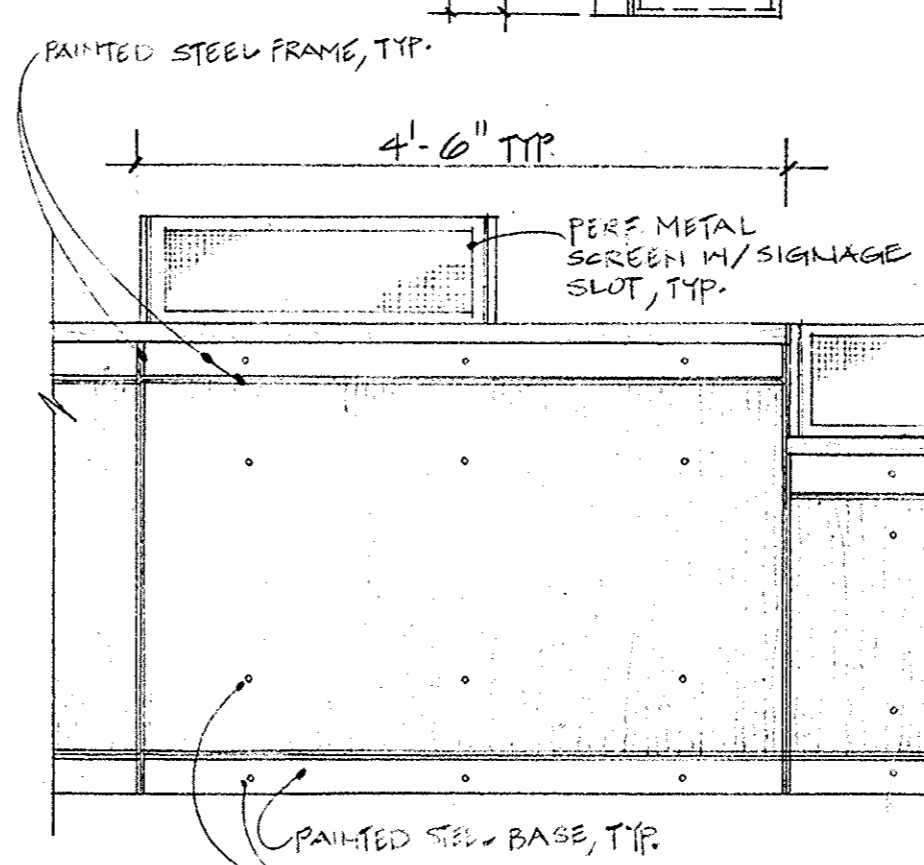
10 CIRC. DESK PLAN  
SCALE: 3/8"=1'-0"



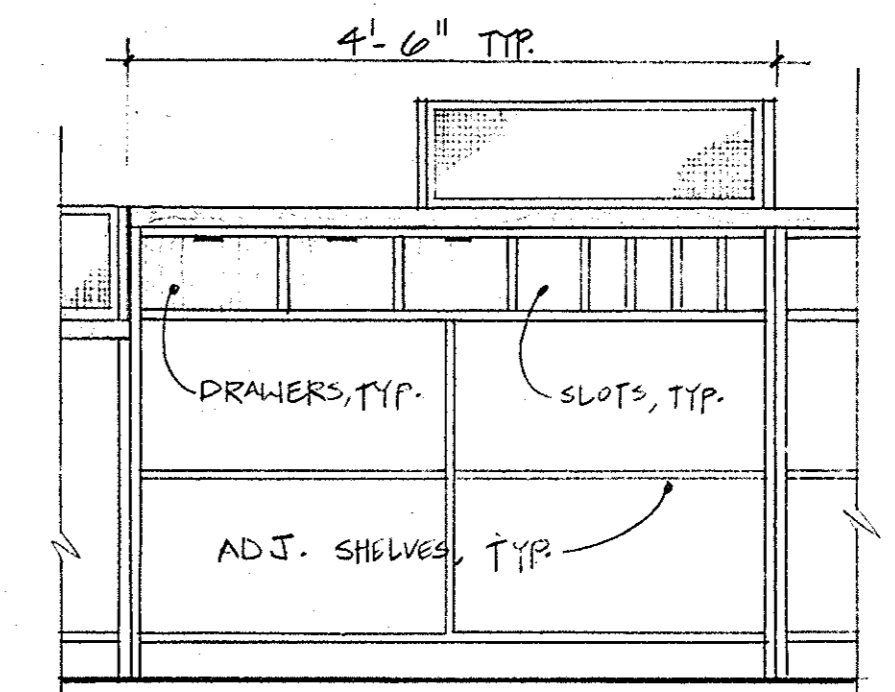
9 SECTION  
SCALE: 3/4"=1'-0"



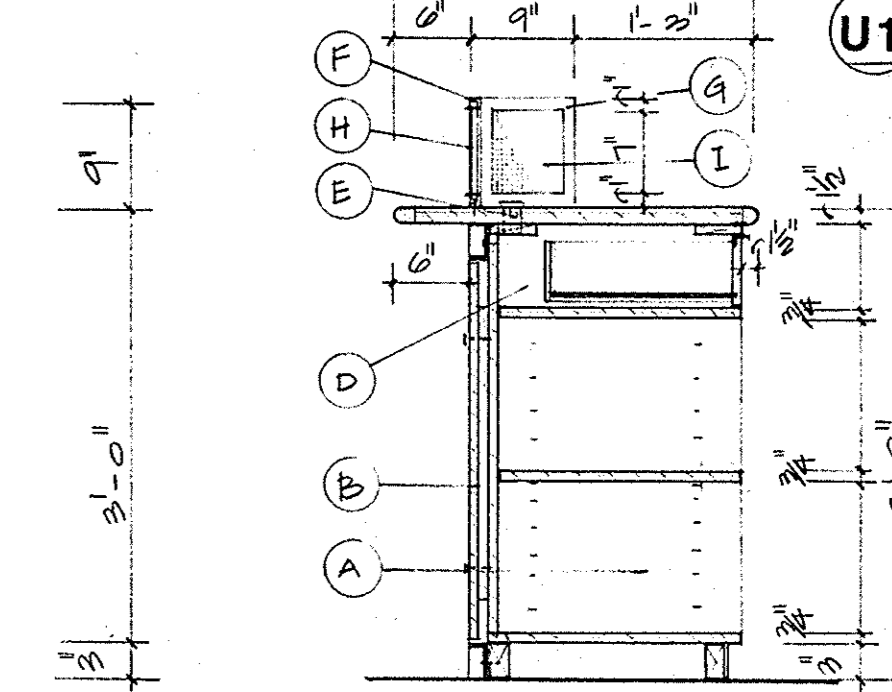
8 FRONT ELEVATION  
SCALE: 3/4"=1'-0"



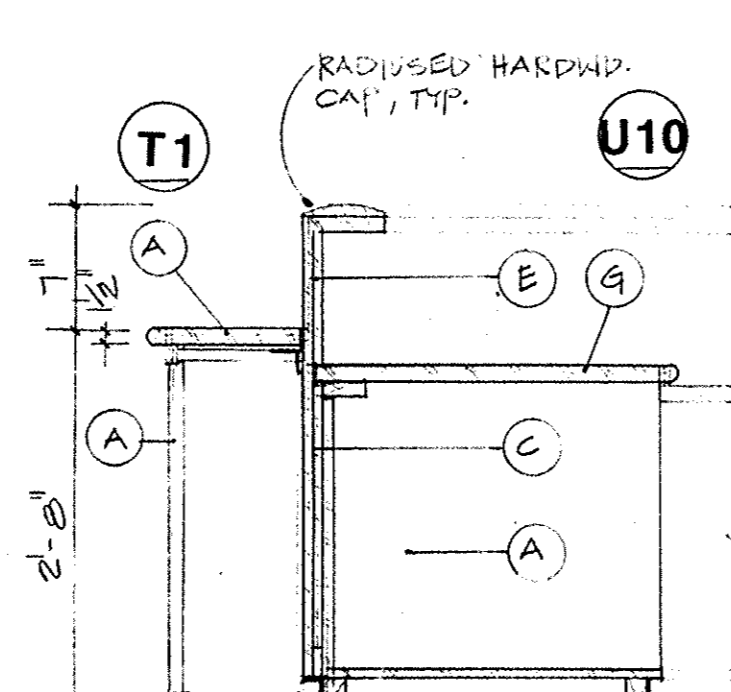
7 FRONT ELEVATION  
SCALE: 3/4"=1'-0"



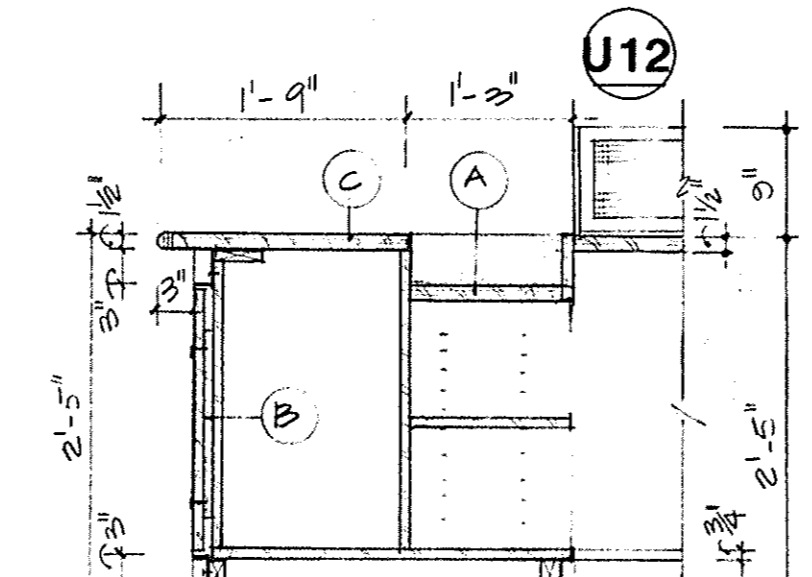
6 REAR ELEVATION  
SCALE: 3/4"=1'-0"



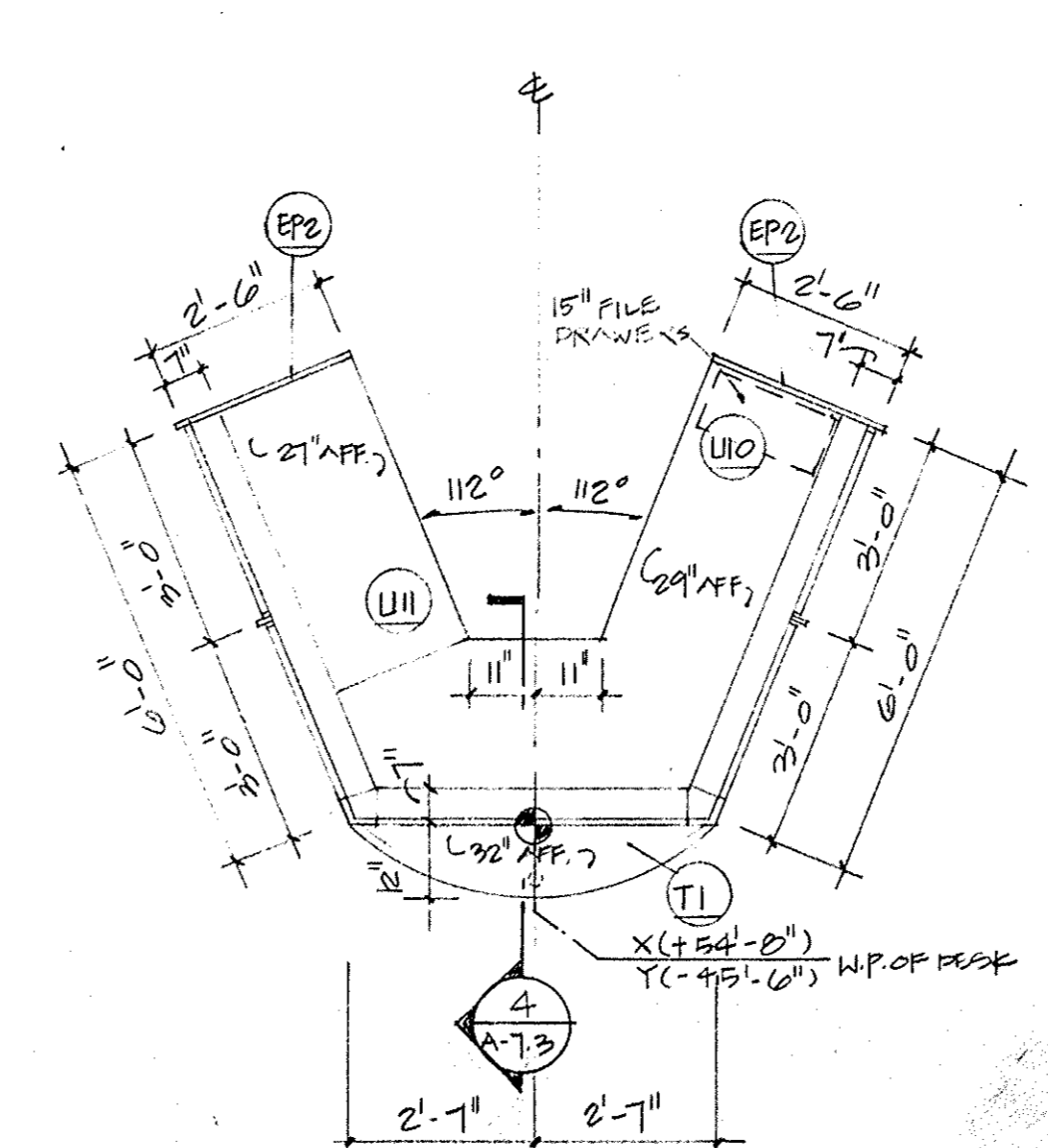
5 SECTION  
SCALE: 3/4"=1'-0"



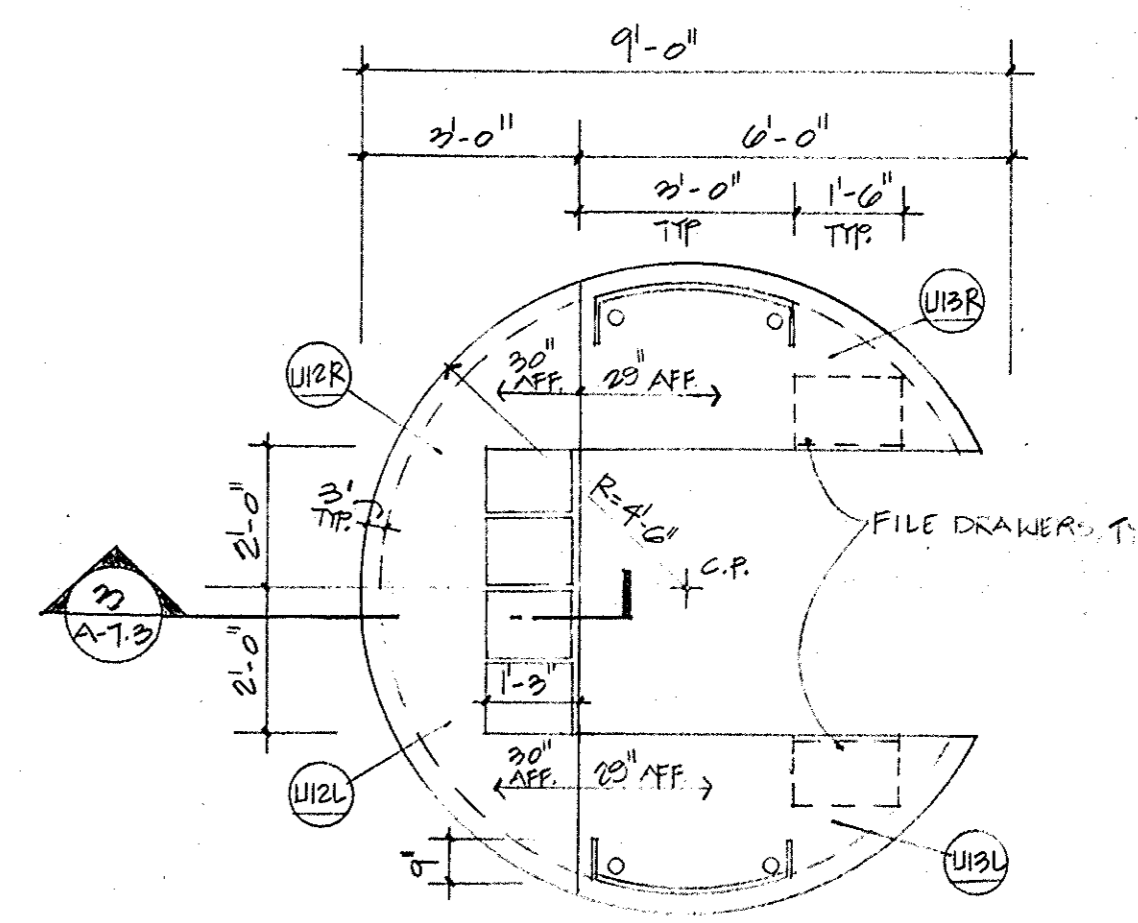
4 SECTION  
SCALE: 3/4"=1'-0"



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



2 RECEPT. DESK PLAN  
SCALE: 3/8"=1'-0"



1 CH'S AREA INFO. DESK PLAN  
SCALE: 3/8"=1'-0"

**KEY SYMBOLS (THIS SHIT)**

U2 THIS SYMBOL TYPICAL FOR MILLWORK UNITS  
SEE PLANS & SECTIONS, THIS SHIT, FOR LOCATION

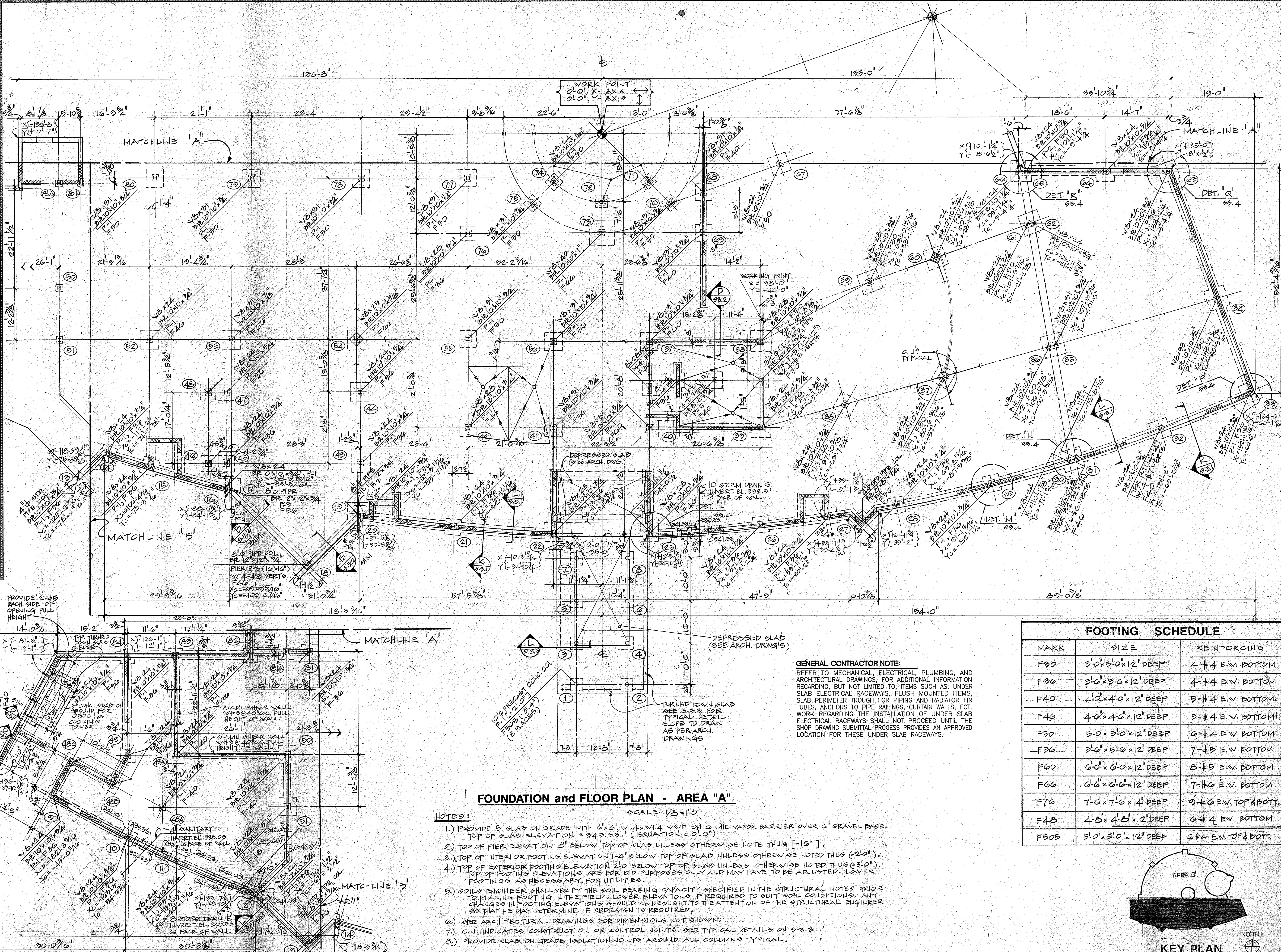
A THIS SYMBOL TYPICAL FOR INDIVIDUAL COMPONENTS WHICH COMPRISE VARIOUS MILLWORK UNITS. SEE COMPONENT SCHEDULE BELOW FOR DESCRIPTION.

**ARCHITECTURAL MILLWORK COMPONENT SCHEDULE** TYPICAL FOR FURNISHINGS (A, U, U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, U11, U12)

UNIT	COMPONENT	DESCRIPTION	UNIT	COMPONENT	DESCRIPTION				
U1	A.	CU 54.30 WS/D/S	U8-	A.	CU 66.30 M/WS/S				
	B.	FU 54.38		B.	FU 66.38 M				
	C.	T 54.30		C.	T 66.30 M				
	D.	1XWOOD		EP-1	30.38	VENEREED END PANEL FOR U-8 UNITS			
	E.	G 2.5		EP-2	30.40	VENEREED END PANEL FOR U-10/U11			
	F.	FR 9.30		U9-	A.	CU 60.60/SP			
	G.	FR 9.9			B.	FU 60.30/SP			
	H.	SC 9.30			C.	T 30.30 M			
	I.	SC 9.9			D.	T7000			
	J.	A 1.1			E.	T 36.36			
	K.	80000			F.	FR 12.9			
	U2-	A.			CU 72.30/IVS/D	G.	SC 142.9		
		B.			FU 72.29	U10-	A.	CU 72.62 M/WS	
C.		T 72.30	B.		FU 72.48 M				
U3-		A.	CU 30.30		C.		FU 62.40 M		
		B.	FU 30.29 C		D.		T 7.72		
		C.	T 30.30 R		E.		T 7.62		
		U4-	A.		CU 66.30 M/WS		F.	T 72.62 M	
			B.	FU 66.29 M	U11-		A.	CU 72.30 WS	
			C.	T 66.30 M			B.	FU 72.40	
			D.	1XWOOD			C.	T 7.72	
			E.	G 2.5			D.	T 51.30	
			F.	FR 9.30			U12-L/R-	A.	CU 51.36 M/WS/D/S
			G.	FR 9.9				B.	FU 66.29 M
	H.		SC 9.30	C.				T 51.36 M	
	I.		SC 9.9	D.		LOOO			
	J.		A 1.1	U13-L/R-		A.		CU 66.36 M/WS/D	
K.	80000		B.			FU 78.24 M			
U5-	A.		CU 30.30 M			C.		T 66.36 M	
	B.		FU 06.38 M			D.		FR 9.30 M	
	C.	T 30.30 M	E.			FR 9.9			
	U6-	A.	CU 45.30 B/WS/S		F.	SC 9.30 M			
		B.	FU 45.38 M		G.	SC 9.9			
		C.	T 45.30		H.	A 1.1			
		U7-	A.		CU 81.30 M/WS/S/S	I.		SC 9.9	
			B.		FU 81.38 M	J.	1XWOOD		
			C.		T 81.30 M	K.	G 2.5		
			D.		1XWOOD	L.	8000		
			E.		G 2.5				
			F.	FR 9.30 M					
			G.	FR 9.9					
H.			SC 9.30 M						
I.			SC 9.9						
J.			A 1.1						
K.	80000								
L.	L.000								





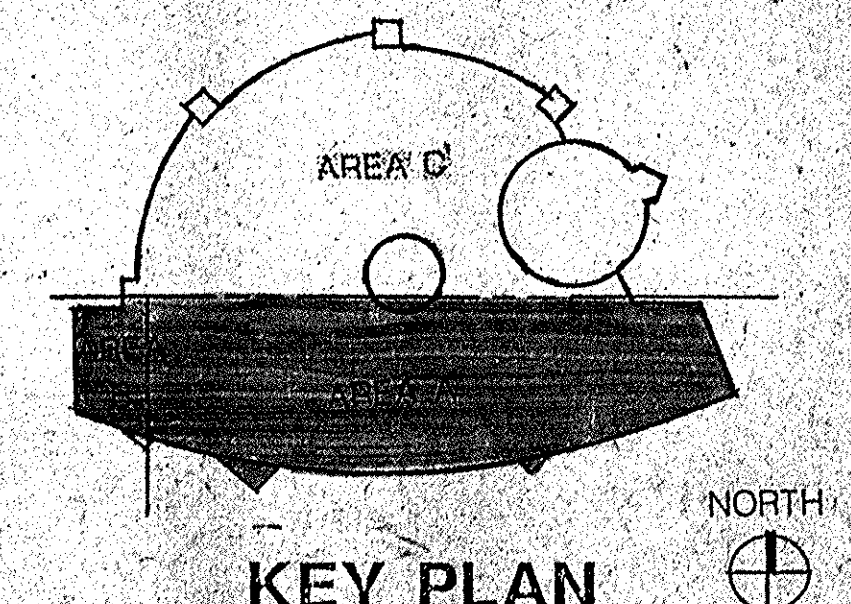


**FOUNDATION and FLOOR PLAN - AREA "A"**

SCALE 1/8" = 1'-0"

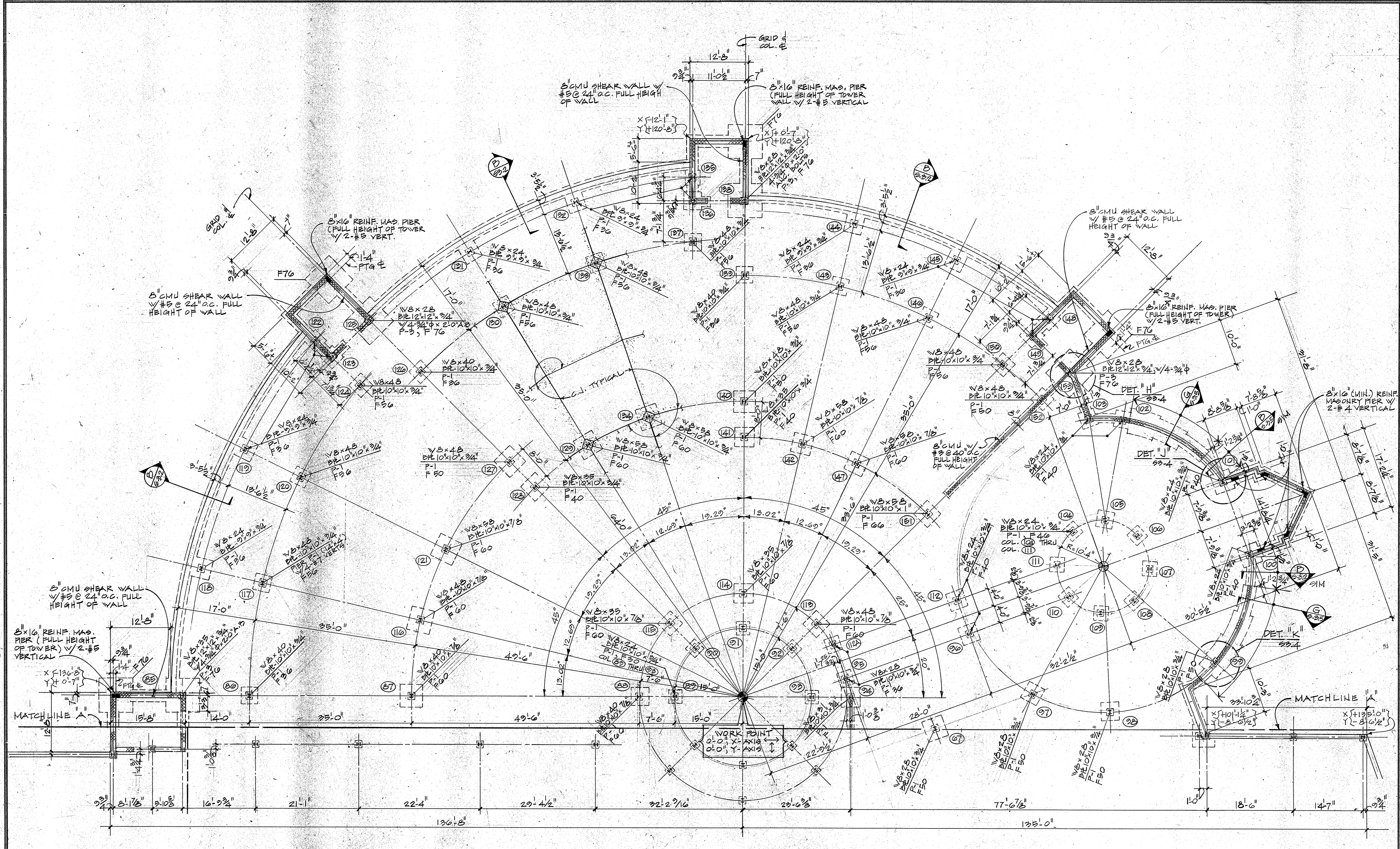
- NOTES:**
- 1.) PROVIDE 5" SLAB ON GRADE WITH 6" x 6" W/4 x W/4 WVF ON 6 MIL VAPOR BARRIER OVER 6" GRAVEL BASE. TOP OF SLAB ELEVATION = 345.33. (EQUATION = 0.0")
  - 2.) TOP OF PIER ELEVATION 8" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED THUS [-16"]
  - 3.) TOP OF INTERIOR FOOTING ELEVATION 1'-4" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED THUS (-210").
  - 4.) TOP OF EXTERIOR FOOTING ELEVATION 2'-0" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED THUS (-310"). TOP OF FOOTING ELEVATIONS ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE ADJUSTED. LOWER FOOTINGS AS NECESSARY FOR UTILITIES.
  - 5.) SOILS ENGINEER SHALL VERIFY THE SOIL BEARING CAPACITY SPECIFIED IN THE STRUCTURAL NOTES PRIOR TO PLACING FOOTING IN THE FIELD. LOWER ELEVATIONS IF REQUIRED TO SUIT POHL CONDITIONS. ANY CHANGES IN FOOTING ELEVATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER SO THAT HE MAY DETERMINE IF REDESIGN IS REQUIRED.
  - 6.) SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
  - 7.) C.J. INDICATES CONSTRUCTION OR CONTROL JOINTS. SEE TYPICAL DETAILS ON S-2.3.
  - 8.) PROVIDE SLAB ON GRADE ISOLATION JOINTS AROUND ALL COLUMNS TYPICAL.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F90	3'-0" x 3'-0" x 12" DEEP	4-#4 E.V. BOTTOM
F96	3'-6" x 3'-6" x 12" DEEP	4-#4 E.V. BOTTOM
F40	4'-0" x 4'-0" x 12" DEEP	5-#4 E.V. BOTTOM
F46	4'-6" x 4'-6" x 12" DEEP	5-#4 E.V. BOTTOM
F50	5'-0" x 5'-0" x 12" DEEP	6-#4 E.V. BOTTOM
F56	5'-6" x 5'-6" x 12" DEEP	7-#5 E.V. BOTTOM
F60	6'-0" x 6'-0" x 12" DEEP	8-#5 E.V. BOTTOM
F66	6'-6" x 6'-6" x 12" DEEP	7-#6 E.V. BOTTOM
F76	7'-0" x 7'-0" x 14" DEEP	9-#6 E.V. TOP & BOTT.
F48	4'-8" x 4'-8" x 12" DEEP	6-#4 E.V. BOTTOM
F505	5'-0" x 5'-0" x 12" DEEP	6-#4 E.V. TOP & BOTT.



**FOUNDATION and FLOOR PLAN - AREA "B"**

SCALE 1/8" = 1'-0"



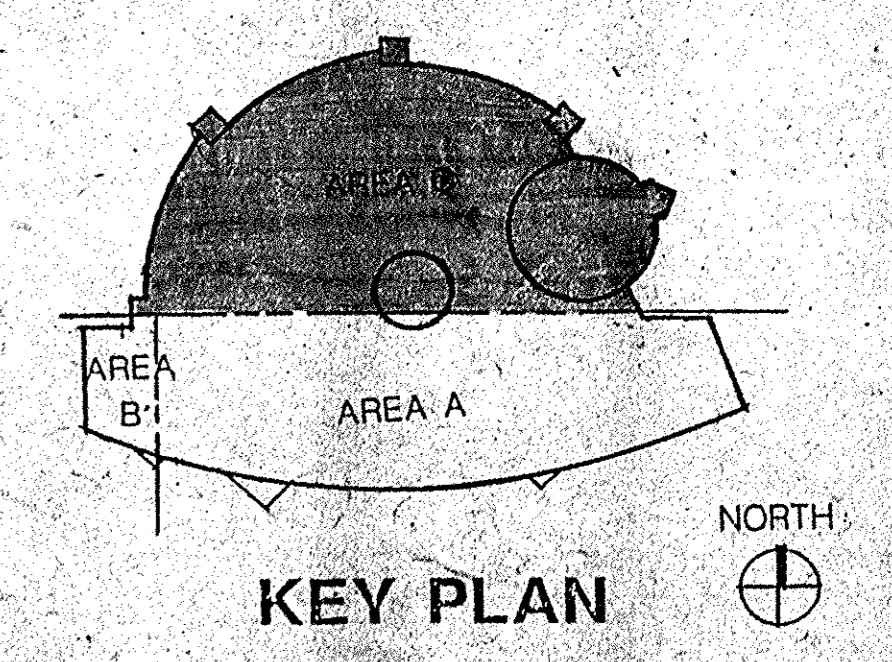
FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F30	3'-0" x 3'-0" x 12" DEEP	4-#4 E.V. BOTTOM
F36	3'-0" x 3'-6" x 12" DEEP	4-#4 E.V. BOTTOM
F40	4'-0" x 4'-0" x 12" DEEP	5-#4 E.V. BOTTOM
F46	4'-0" x 4'-6" x 12" DEEP	5-#4 E.V. BOTTOM
F50	5'-0" x 5'-0" x 12" DEEP	6-#4 E.V. BOTTOM
F56	5'-0" x 5'-6" x 12" DEEP	7-#5 E.V. BOTTOM
F60	6'-0" x 6'-0" x 12" DEEP	8-#5 E.V. BOTTOM
F66	6'-0" x 6'-6" x 12" DEEP	7-#6 E.V. BOTTOM
F70	7'-0" x 7'-0" x 14" DEEP	9-#6 E.V. TOP & BOTT.

**GENERAL CONTRACTOR NOTE:**  
 REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS, FOR ADDITIONAL INFORMATION REGARDING, BUT NOT LIMITED TO, ITEMS SUCH AS: UNDER SLAB ELECTRICAL RACEWAYS, FLUSH MOUNTED ITEMS, SLAB PERIMETER TROUGH FOR PIPING AND RADIATOR FIN TUBES, ANCHORS TO PIPE RAILINGS, CURTAIN WALLS, ECT. WORK REGARDING THE INSTALLATION OF UNDER SLAB ELECTRICAL RACEWAYS SHALL NOT PROCEED UNTIL THE SHOP DRAWING SUBMITTAL PROCESS PROVIDES AN APPROVED LOCATION FOR THESE UNDER SLAB RACEWAYS.

**FOUNDATION and FLOOR PLAN - AREA "C"**  
 SCALE 1/8" = 1'-0"

**NOTES:**

- 1.) PROVIDE 5" SLAB ON GRADE WITH 6"x6" W. 4"x4" W. 1.4 WVF ON 6" MIL VAPOR BARRIER OVER 6" GRAVEL BASE. TOP OF SLAB ELEVATION = 345.33. (EQUATION = 0.0")
- 2.) TOP OF PIER ELEVATION 8" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED THUS [ . ]
- 3.) TOP OF INTERIOR FOOTING ELEVATION 1'-4" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED THUS ( . )
- 4.) TOP OF EXTERIOR FOOTING ELEVATION 2'-0" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED THUS ( . )  
 TOP OF FOOTING ELEVATIONS ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE ADJUSTED. LOWER FOOTINGS AS NECESSARY FOR UTILITIES.
- 5.) SOILS ENGINEER SHALL VERIFY THE SOIL BEARING CAPACITY, SPECIFIED IN THE STRUCTURAL NOTES PRIOR TO PLACING FOOTING IN THE FIELD. LOWER ELEVATIONS IF REQUIRED TO SUIT SOIL CONDITIONS. ANY CHANGES IN FOOTING ELEVATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER SO THAT HE MAY DETERMINE IF REDESIGN IS REQUIRED.
- 6.) SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, NOT SHOWN.
- 7.) C.J. INDICATES CONSTRUCTION OR CONTROL JOINTS. SEE TYPICAL DETAILS ON 9-3.3.
- 8.) PROVIDE SLAB ON GRADE ISOLATION JOINTS AROUND ALL COLUMNS TYPICAL.



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 FROM WASHINGTON 821-8998  
 FROM BALTIMORE 290-1177

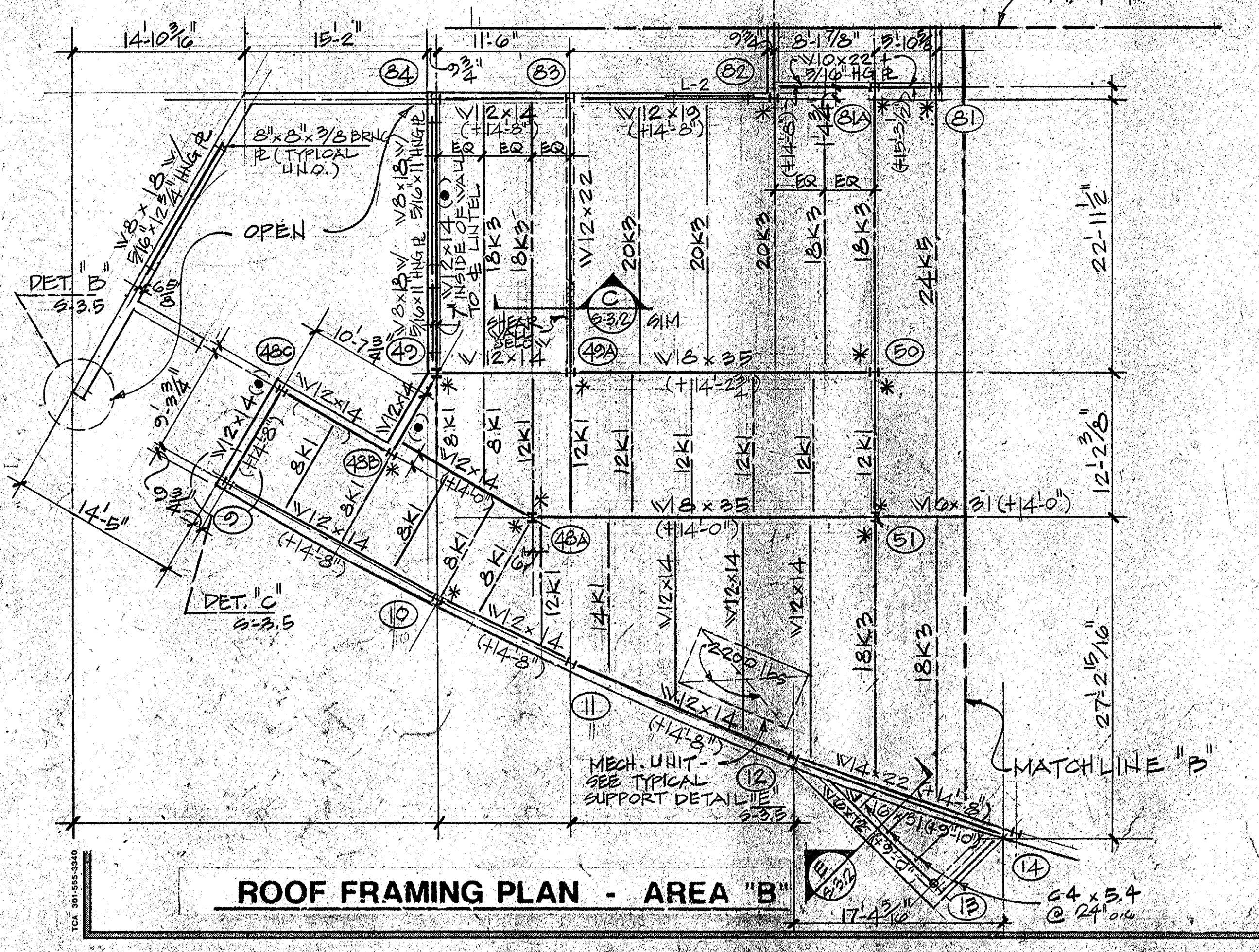
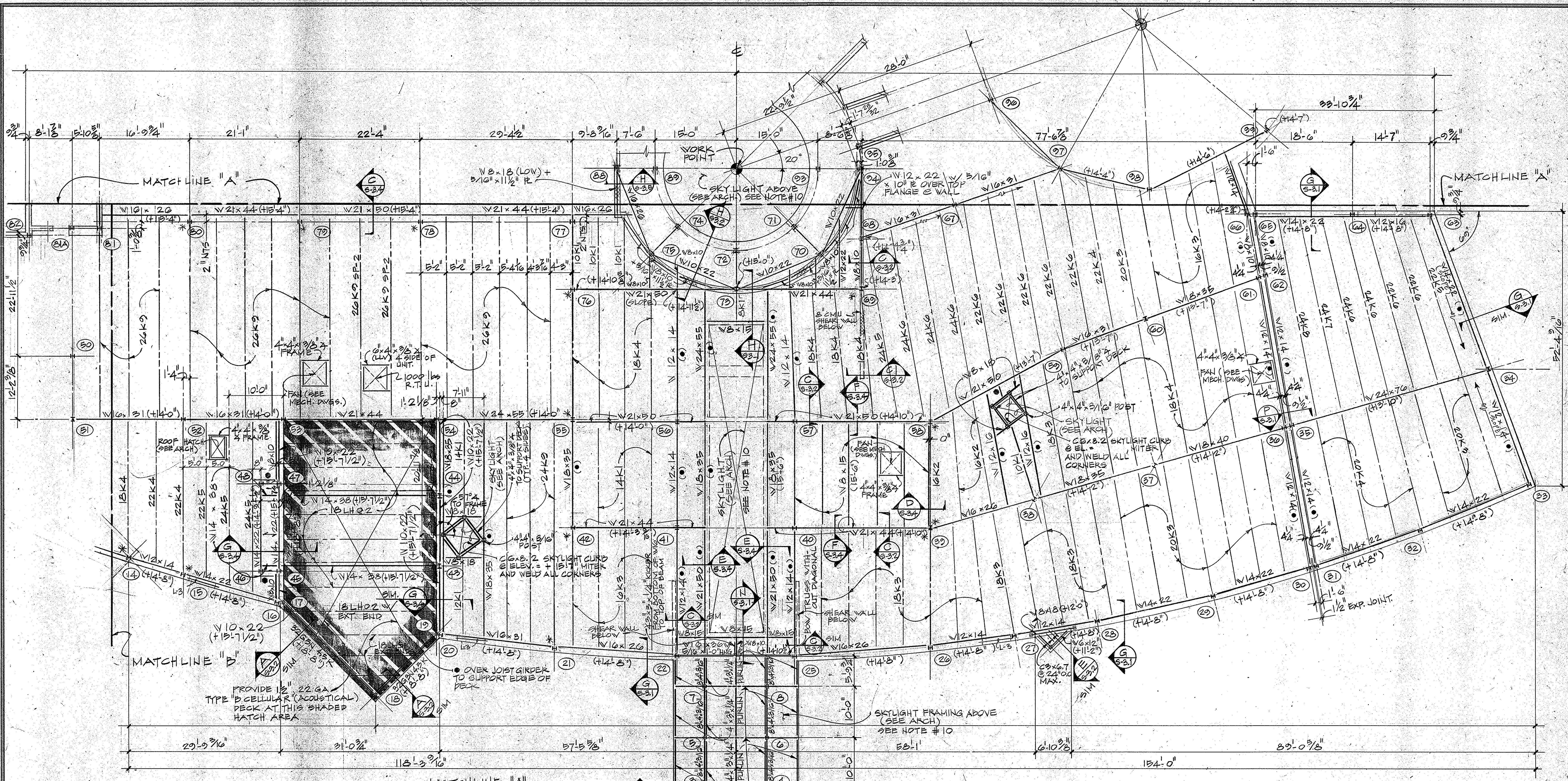
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**FOUNDATION & FLOOR PLAN - AREA "C"**  
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**S-1.2**

AMEN # 90050

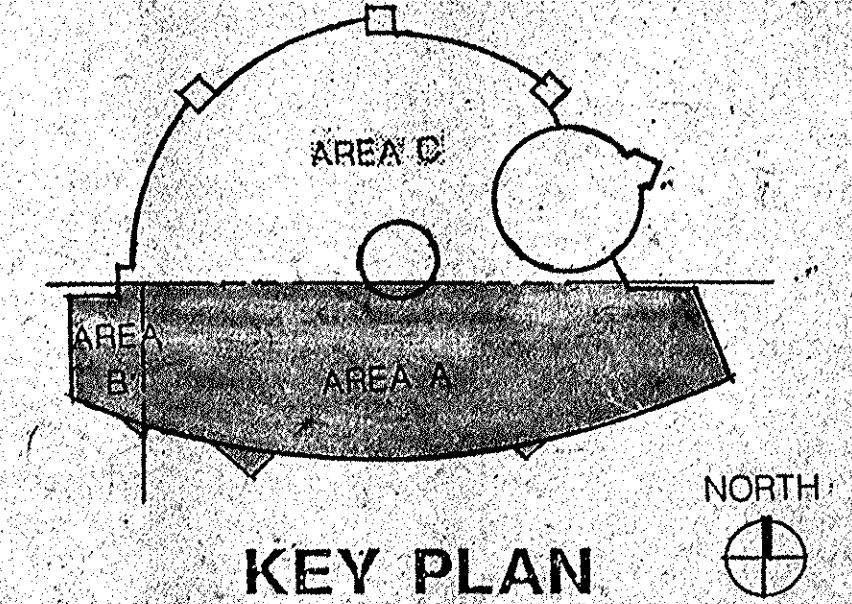


**ROOF FRAMING PLAN - AREA "A"**  
SCALE 1/8" = 1'-0"

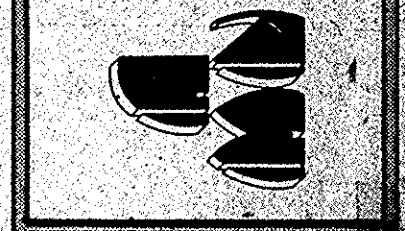
- ROOF NOTES:**
- 1) PROVIDE 1/2" 22 GA. GALVANIZED METAL ROOF DECK AS PER UNITED STEEL DECK OR EQUIVALENT WELD TO JOISTS IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS (2 SPAN MINIMUM).
  - 2) TOP OF BEAM ELEVATION SHOWN ON PLAN THUS ( )
  - 3) TOP OF JOIST ELEVATION + 2 1/2" @ K JOISTS OR + 5" @ LH JOISTS FROM TOP OF BEAM UNLESS NOTED OTHERWISE.
  - 4) \* INDICATES BOTTOM CHORD OF JOIST EXTENDED TO BEAM OR COLUMN AND WELDED.
  - 5) PROVIDE 3"x3"x1/4" ANGLE FRAMES (4 SIDES) OF ALL OPENINGS UNLESS OTHERWISE NOTED.
  - 6) ● INDICATES 2.5 VS 5 JOIST SUBSTITUTE BY VULCRAFT OR EQUIVALENT.
  - 7) (●) INDICATES TOP OF BEAM ELEVATION + 2 1/2" FROM TOP OF SUPPORTING BEAM @ BEARING UNLESS NOTED OTHERWISE.
  - 8) TOP OF CONCRETE SLAB ON GROUND ELEVATION = 345.33' (EQUATION = 0'-0")
  - 9) 26K9 SP-2 INDICATES SPECIAL JOIST THAT MUST BE DESIGNED FOR ADDITIONAL 1000 LBS. DESIGN LIVE LOAD = 30 PSF ; DESIGN DEAD LOAD = 20 PSF.
  - 10) SKYLIGHTS AND THEIR FRAMING MUST BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND FOR THE MINIMUM LOAD INDICATED ON THE BUILDING CODE.

LINTEL SCHEDULE	
MARK	SIZE, TYPE & REINFORCEMENT
L-1	(2) 4"x8" PRECAST CONCRETE LINTELS WITH 1#3 BAR TOP & BOTTOM + ANGLE, SEE GENERAL NOTES
L-2	(2) 4"x8" PRECAST CONCRETE LINTELS WITH 2#3 BARS TOP & BOTTOM + 6"x3/2" x 3/8"
L-3	REINF. BRICK LINTEL. SEE G/5-3.2

NOTE: L-1 TYPICAL UNLESS NOTED OTHERWISE



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FAX: 280-1177

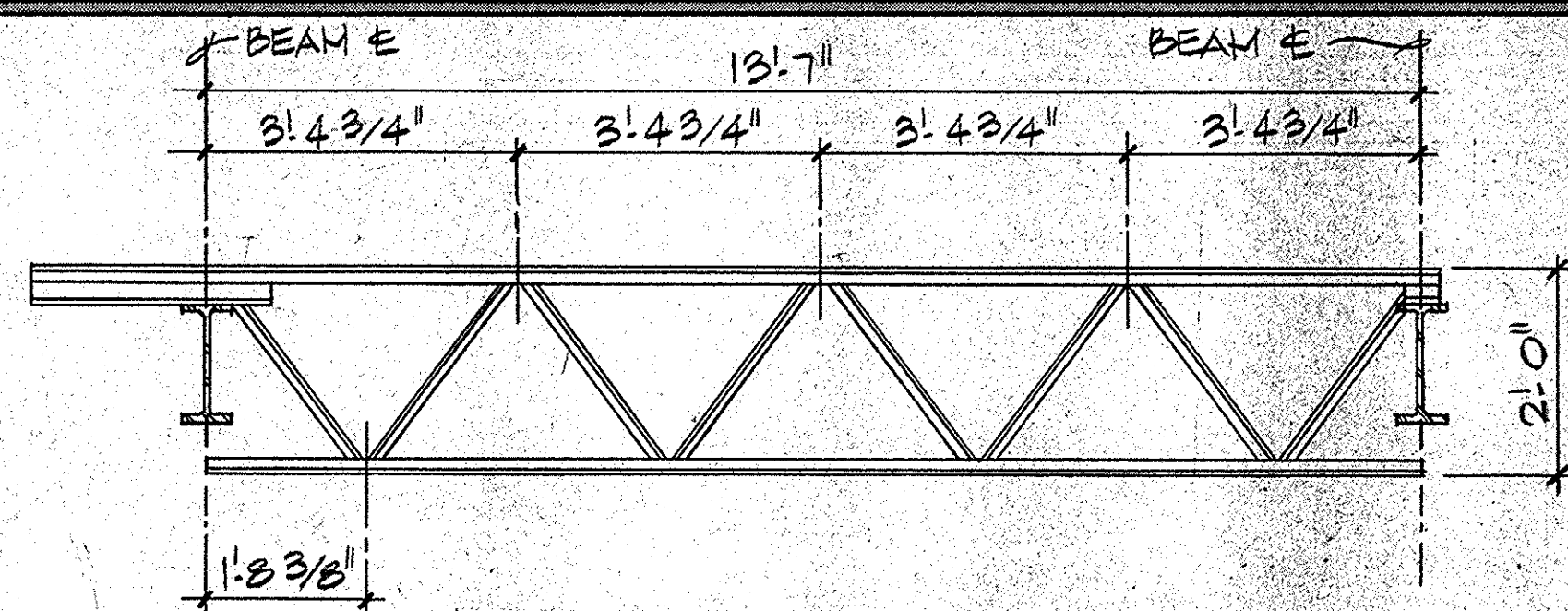


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**ROOF FRAMING PLAN - AREA "A" & "B"**  
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310 SET

**S-1.3**

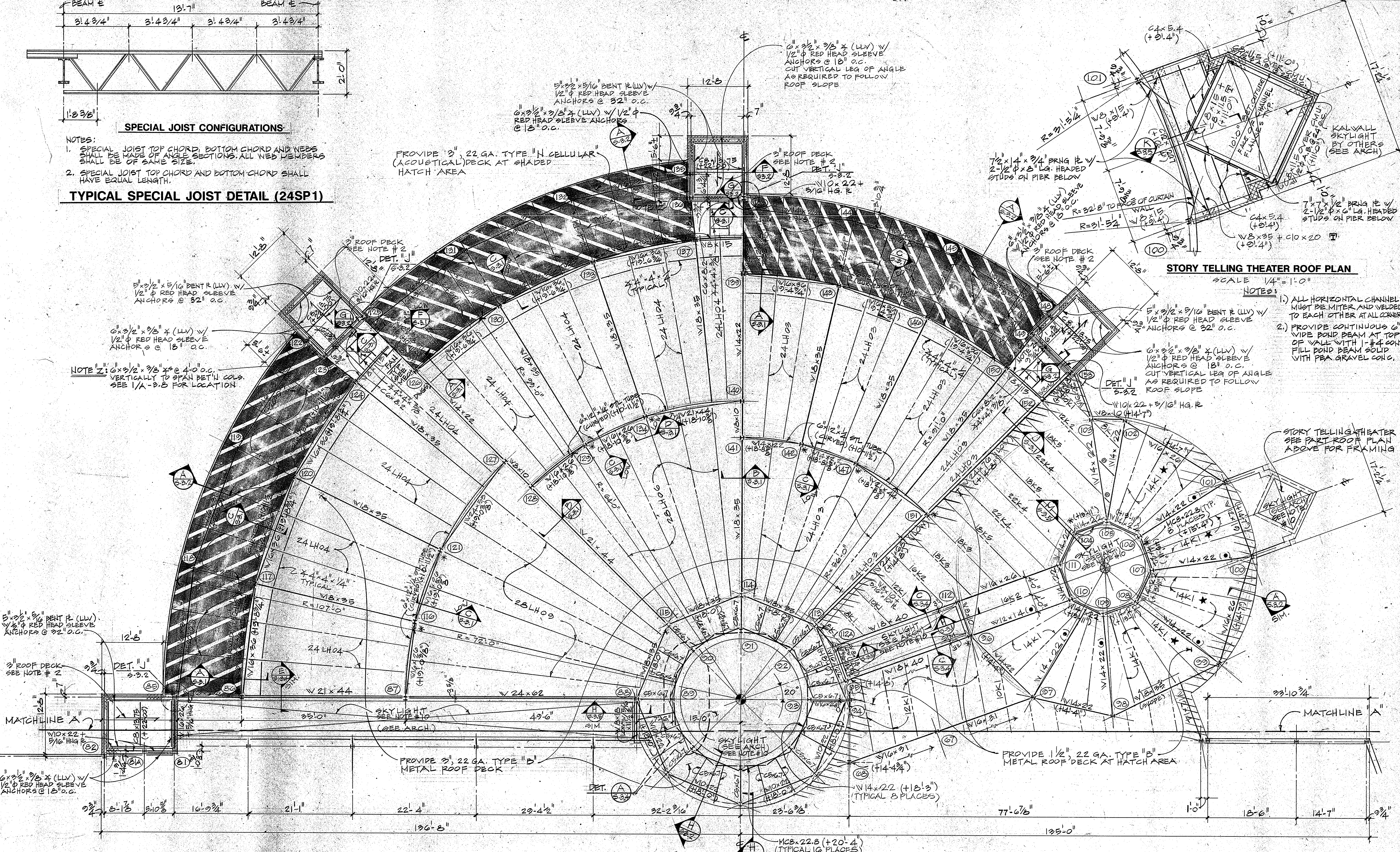


**SPECIAL JOIST CONFIGURATIONS**

- NOTES:
1. SPECIAL JOIST TOP CHORD, BOTTOM CHORD AND WEBS SHALL BE MADE OF ANGLE SECTIONS. ALL WEB MEMBERS SHALL BE OF SAME SIZE.
  2. SPECIAL JOIST TOP CHORD AND BOTTOM CHORD SHALL HAVE EQUAL LENGTH.

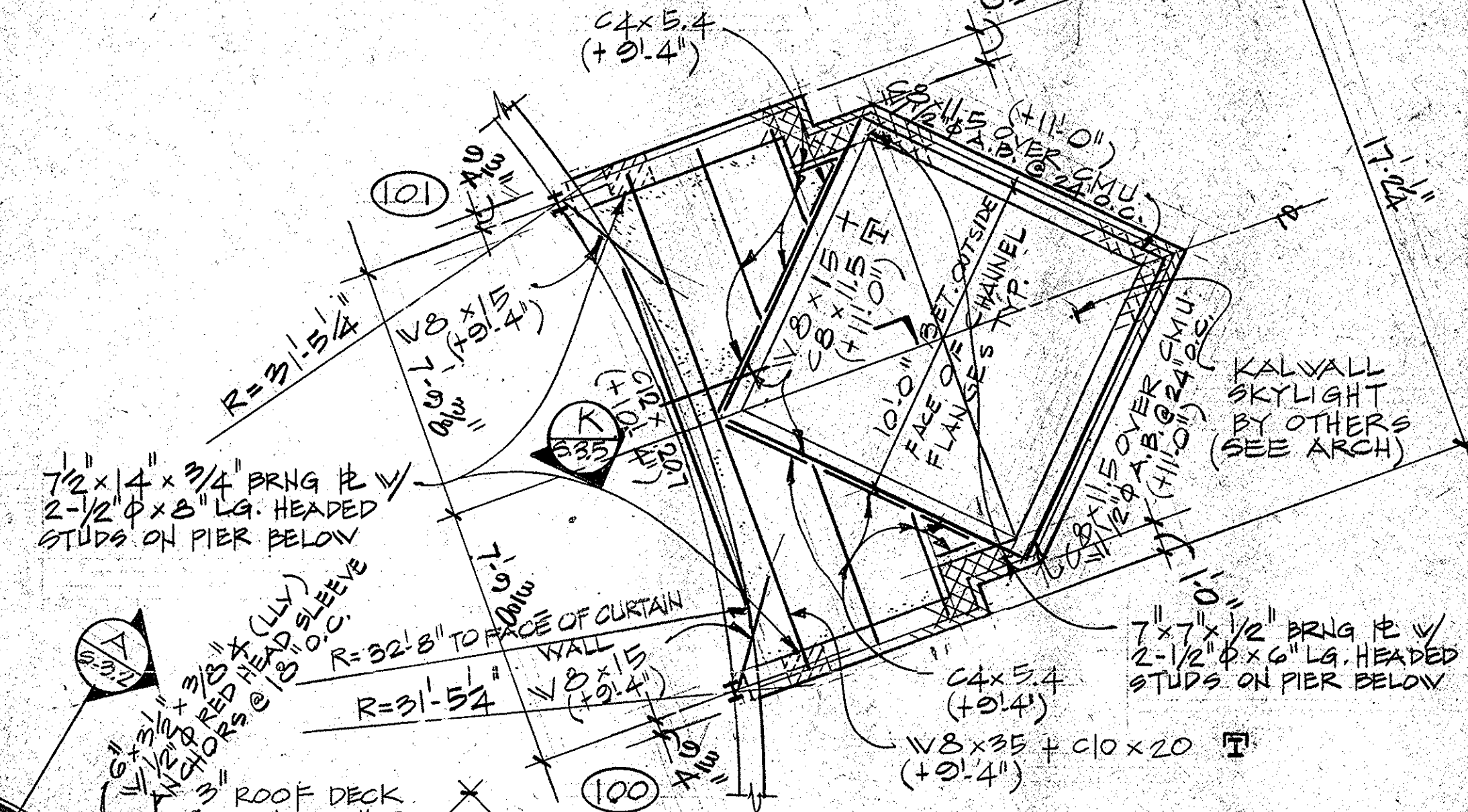
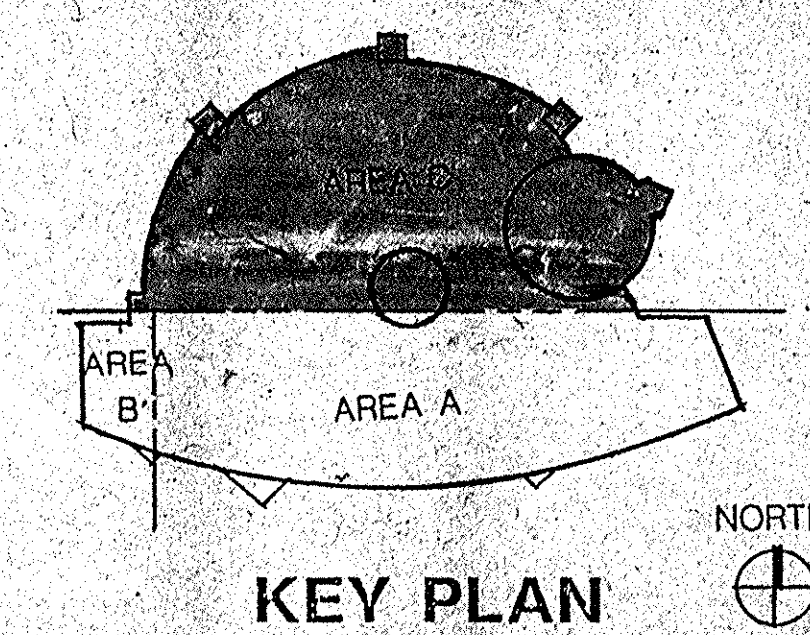
**TYPICAL SPECIAL JOIST DETAIL (24SP1)**

PROVIDE 1/2" 22 GA. TYPE "N" CELLULAR (ACOUSTICAL) DECK AT SHADED HATCH AREA



**ROOF FRAMING PLAN - AREA "C"**

- SCALE 1/8" = 1'-0"
- ROOF NOTES:**
- 1.) PROVIDE 1/2" 22 GA. GALVANIZED METAL ROOF DECK AS PER UNITED STEEL DECK OR EQUIVALENT. WELD TO JOISTS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS (2 SPAN MINIMUM). DECK SHALL BE TYPE "N".
  - 2.) PROVIDE 3/8" 22 GA. GALVANIZED METAL ROOF DECK AS PER UNITED STEEL DECK OR EQUIVALENT. WELD TO JOISTS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS (2 SPAN MINIMUM). DECK SHALL BE TYPE "N" UNLESS OTHERWISE NOTED.
  - 3.) 24SP1 - INDICATES SPECIAL JOIST. SEE "TYPICAL SPECIAL JOIST DETAIL" ON THIS SHEET. DESIGN LL = 30 PSF DESIGN DL = 20 PSF
  - 4.) \* - INDICATES JOIST WITH #4 SJI EXTENDED ENDS.
  - 5.) \* - INDICATES BOTTOM CHORD OF JOIST EXTENDED TO BEAM OR COLUMN AND WELDED.
  - 6.) PROVIDE 3"x3"x1/4" ANGLE FRAMES (4 SIDES) OF ALL OPENINGS UNLESS OTHERWISE NOTED.
  - 7.) @ - INDICATES 2.5 V55 JOIST SUBSTITUTE BY VULCRAFT OR EQUIVALENT.
  - 8.) (●) - INDICATES TOP OF BEAM ELEVATION + 2 1/2" FROM TOP OF SUPPORTING BEAM @ BEARING UNLESS NOTED OTHERWISE.
  - 9.) TOP OF CONCRETE SLAB ON GROUND ELEVATION = 945.33' (EQUATION = 0.0')
  - 10.) SKYLIGHTS AND THEIR FRAMING MUST BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN MARYLAND.



**STORY TELLING THEATER ROOF PLAN**

SCALE 1/4" = 1'-0"

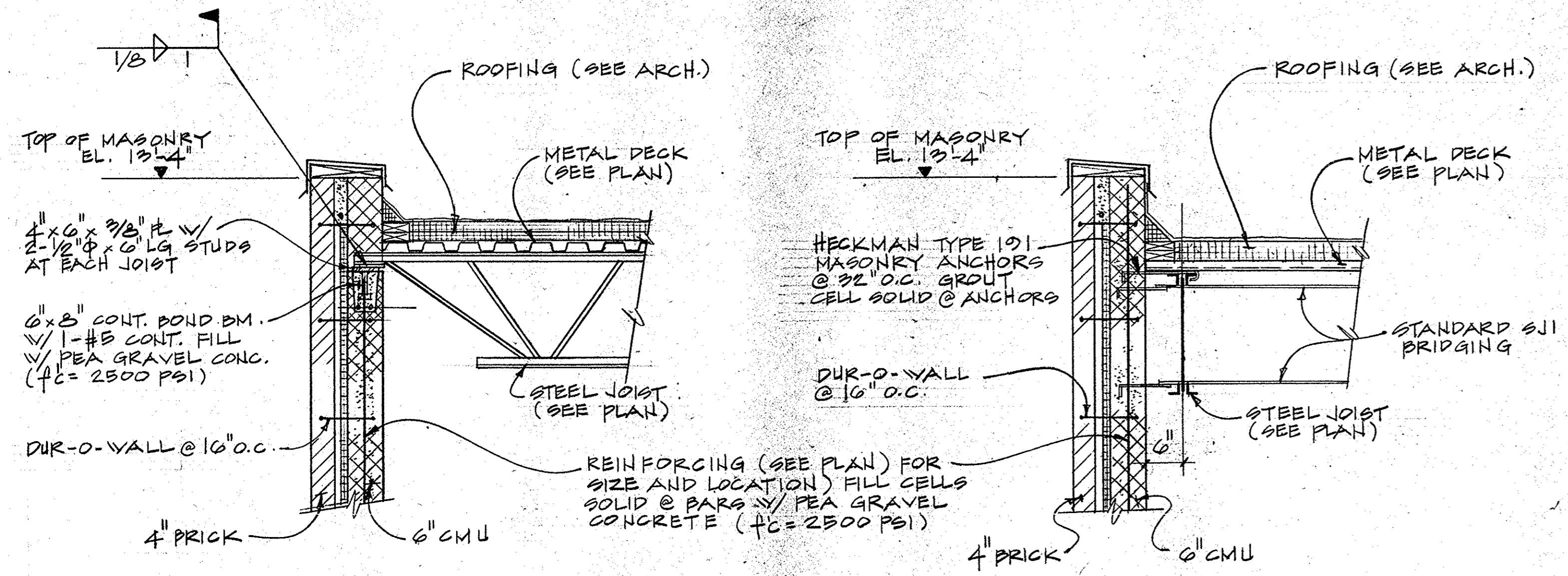
- NOTES:
- 1.) ALL HORIZONTAL CHANNEL MUST BE MITER AND WELDED TO EACH OTHER AT ALL CORNERS.
  - 2.) PROVIDE CONTINUOUS 6" WIDE BOND BEAM AT TOP OF WALL WITH 1-#4 CONT. FILL BOND BEAM SOLID WITH PEA GRAVEL CONC.

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FROM BALTIMORE

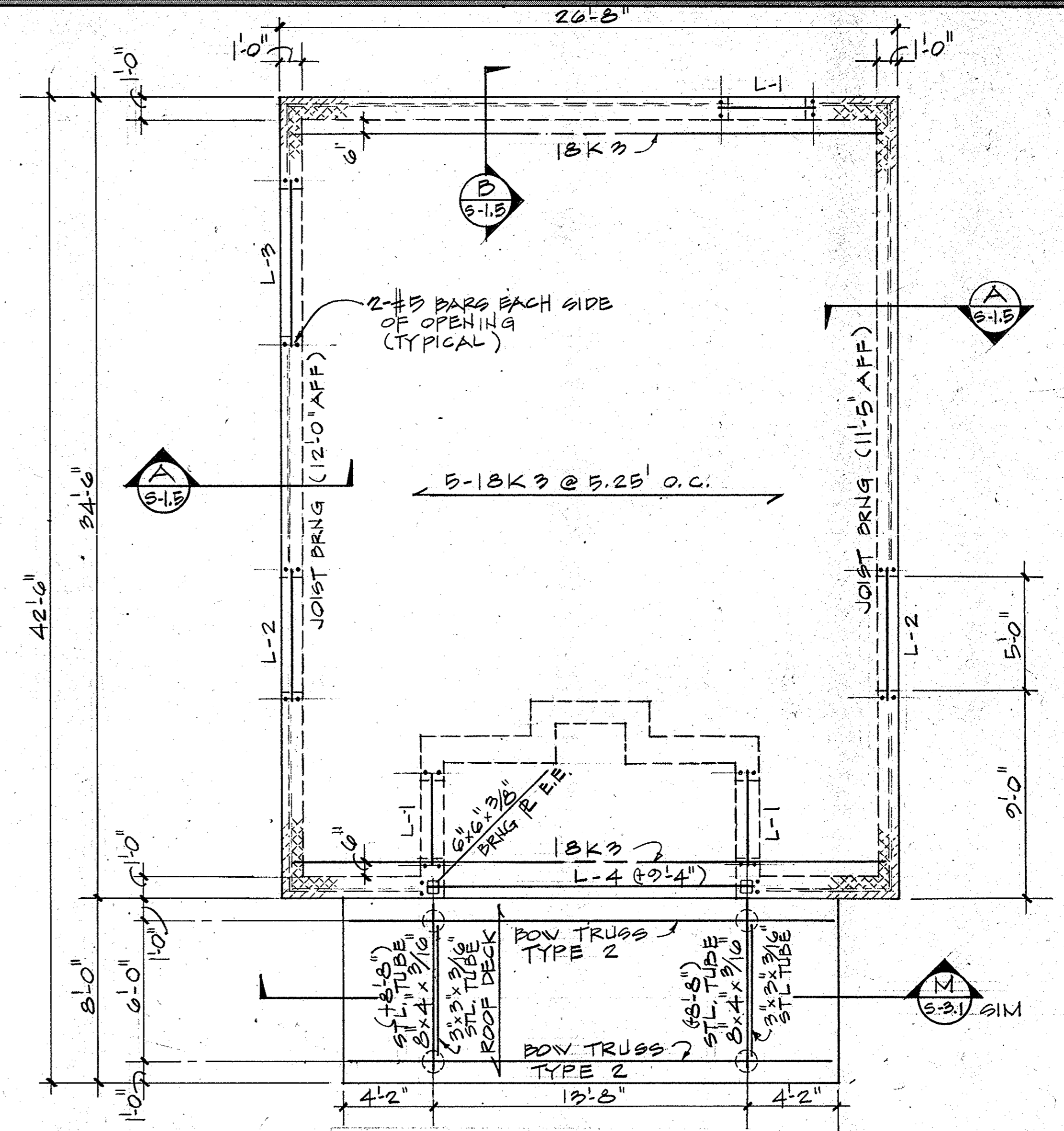
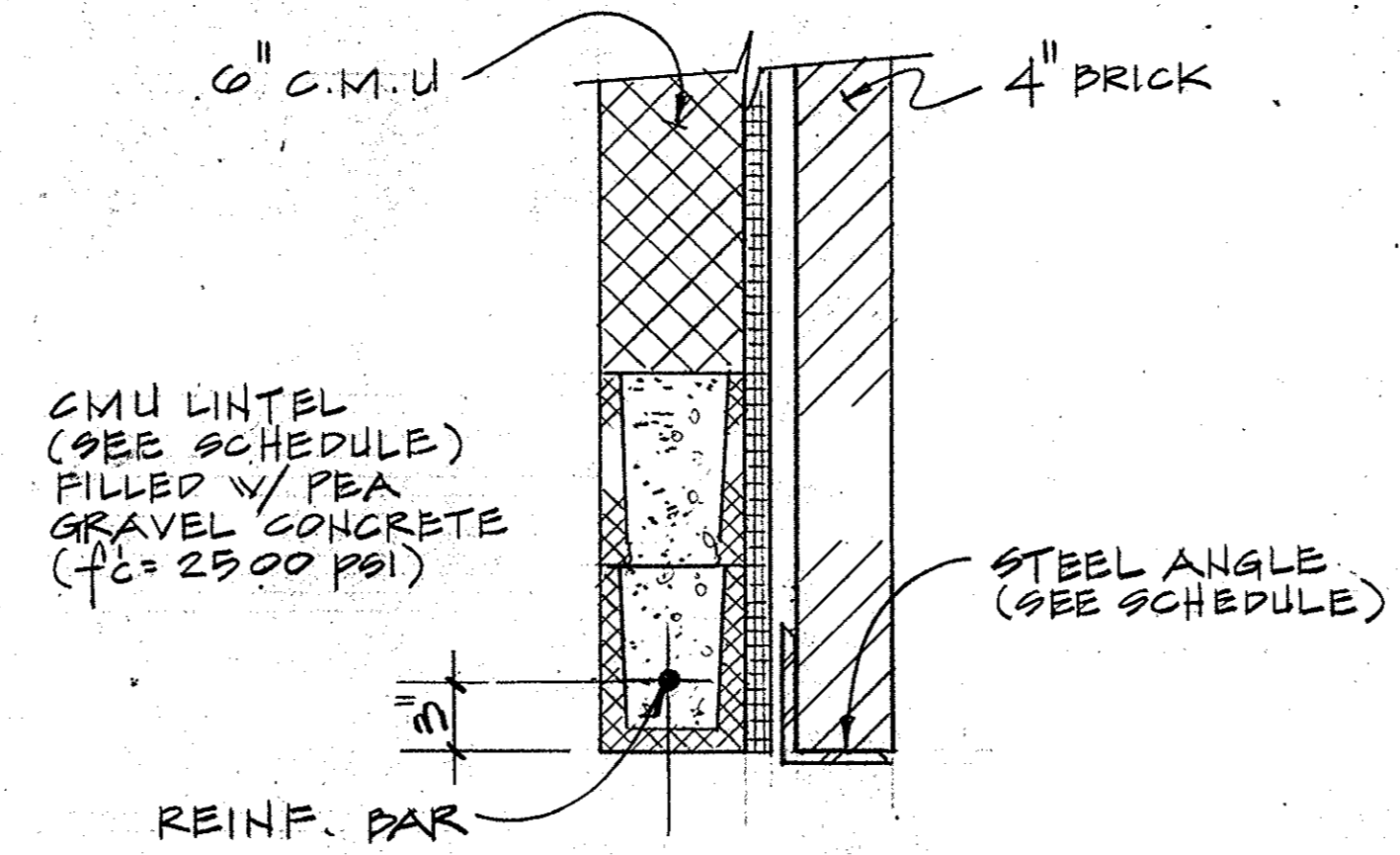
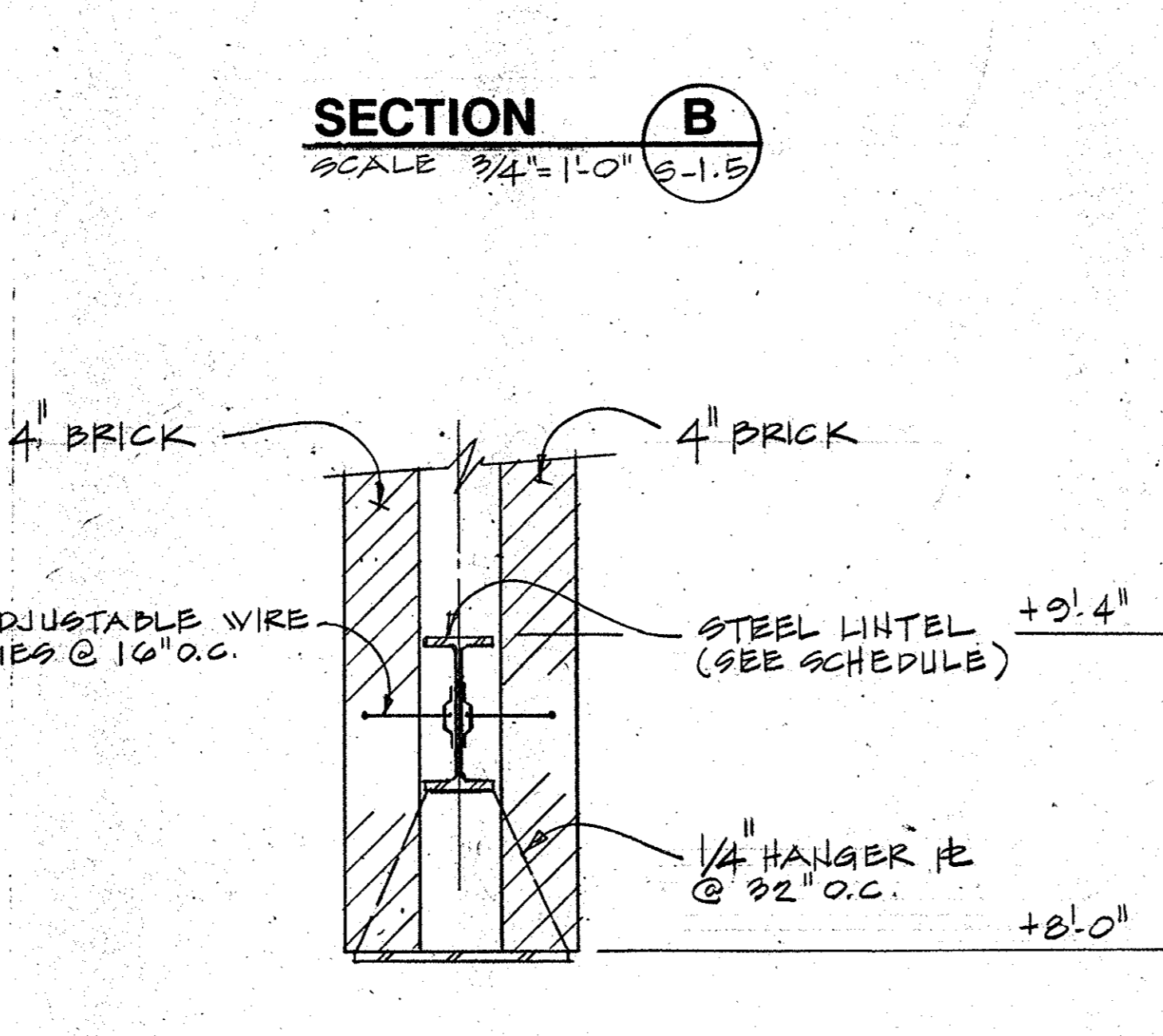
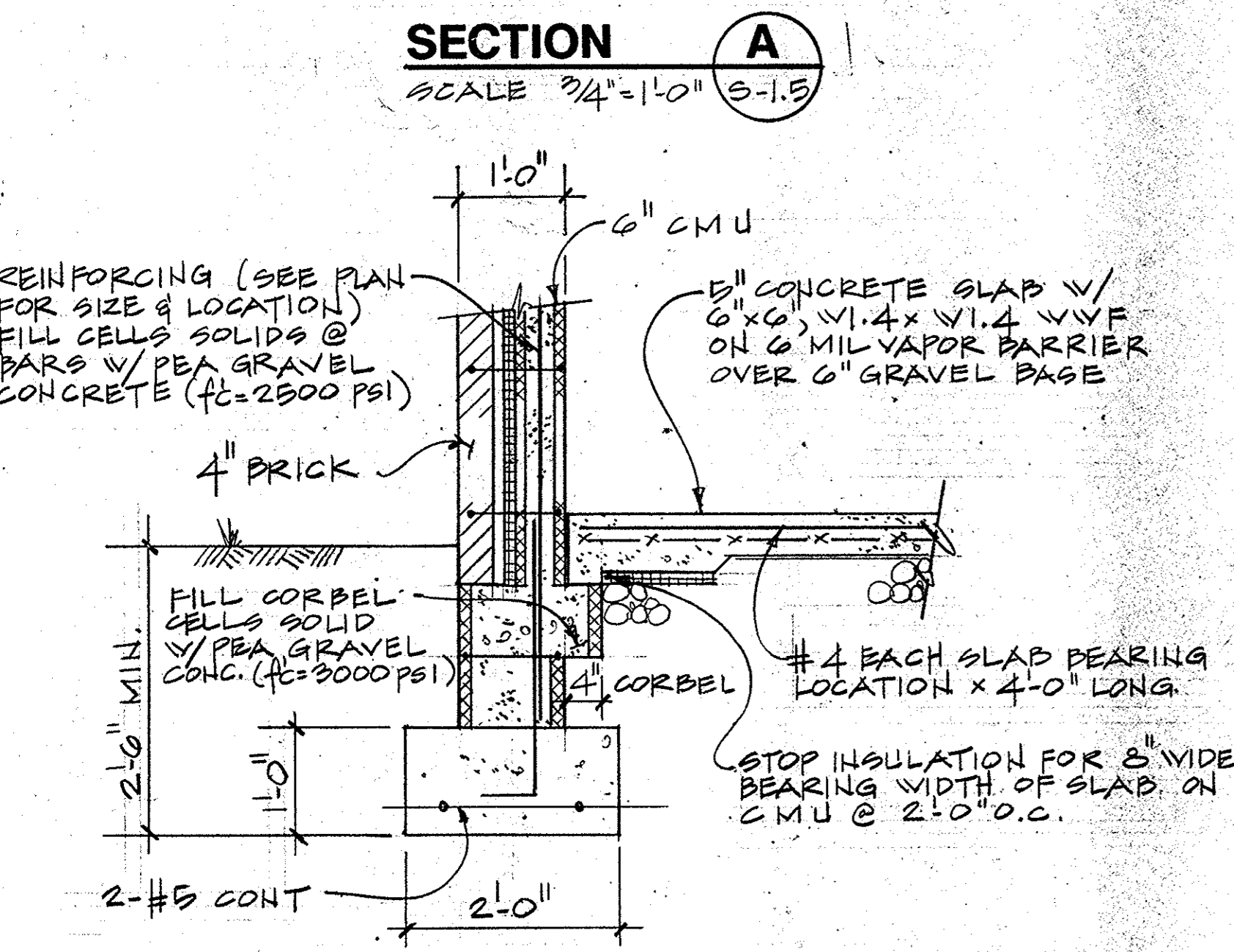
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**ROOF FRAMING PLAN - AREA "C"**  
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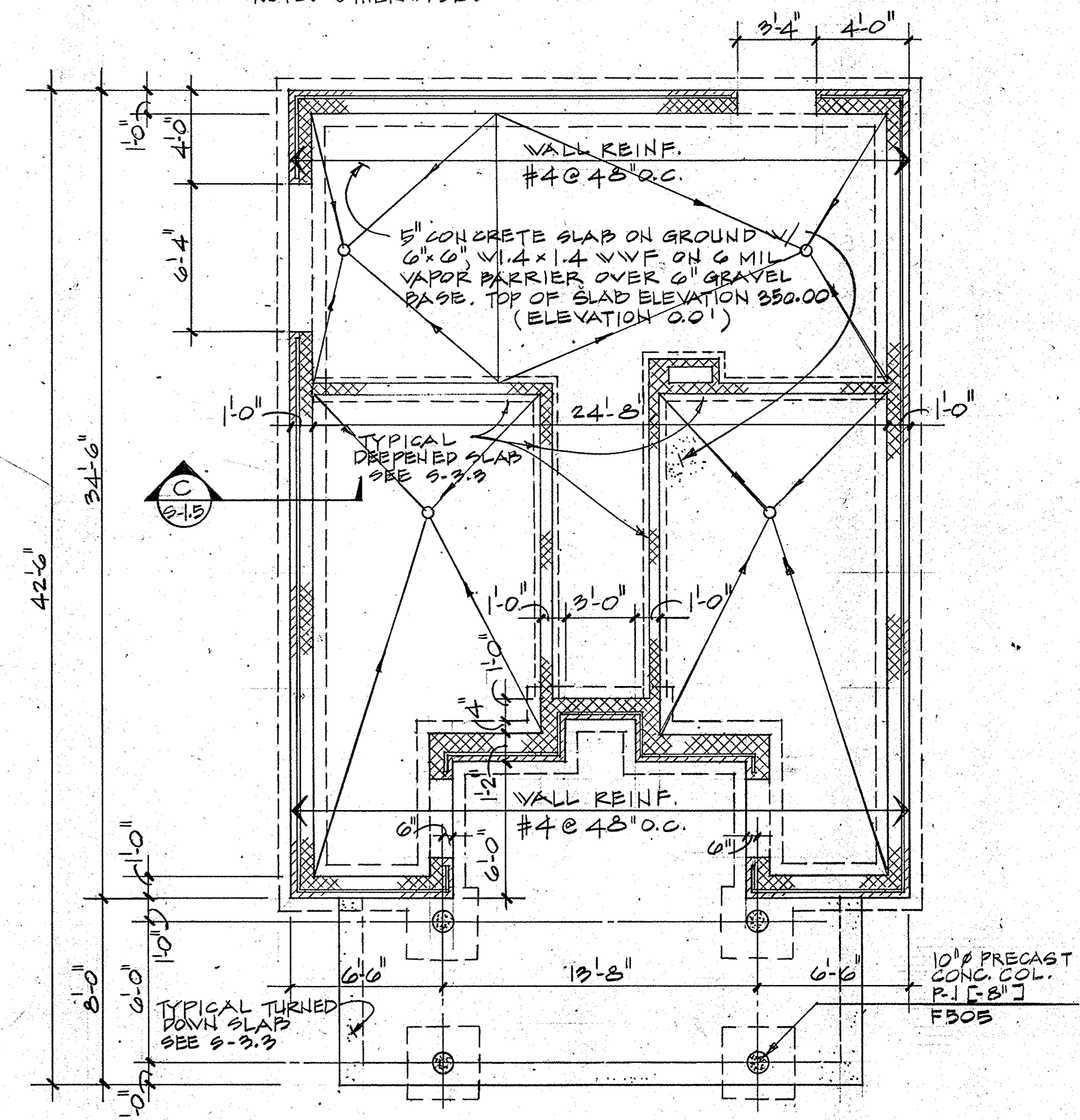


LINTEL SCHEDULE		
MARK	SIZE	REMARKS
L-1	6"x6" CMU w/ 1-#4 BAR + 4"x2 1/2" x 3/16" ANGLE	SEE DET. "E"
L-2	6"x6" CMU w/ 1-#4 BAR + 4"x2 1/2" x 3/16" ANGLE	SEE DET. "E"
L-3	6"x6" CMU w/ 1-#5 BAR + 5"x2 1/2" x 3/8" ANGLE	SEE DET. "E"
L-4	2"x15" w/ 5/16" x 11" HUNG PLATE	SEE DET. "D"



**NOTES:**

- 1) PROVIDE 1/2" 22 GA. GALVANIZED METAL ROOF PECK AS PER UNITED STEEL PECK OR EQUIVALENT, WELD TO JOISTS IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS (2 SPAN MINIMUM).
- 2) PROVIDE 3/8" x 1/4" ANGLE FRAMES (4 SIDES) OF ALL OPENINGS UNLESS NOTED OTHERWISE.



**NOTES:**

- 1) TOP OF FOOTING ELEVATION 2'-0" BELOW TOP OF SLAB UNLESS NOTED OTHERWISE THUS ( )
- 2) SOILS ENGINEER SHALL VERIFY THE SOIL BEARING CAPACITY SPECIFIED IN THE STRUCTURAL NOTES PRIOR TO PLACING FOOTING IN THE FIELD, LOWER ELEVATIONS IF REQUIRED TO SUIT SOIL CONDITIONS. ANY CHANGES IN FOOTING ELEVATIONS SHOULD BE BROUGHT TO THE ATTENTION OF STRUCTURAL ENGINEER SO THAT HE MAY DETERMINE IF REDESIGN IS REQUIRED.
- 3) SEE S.1.1 FOR PIER AND FOOTING SIZE AND REINFORCING.

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FACSIMILE: 821-8989  
FROM BALTIMORE 230-1177

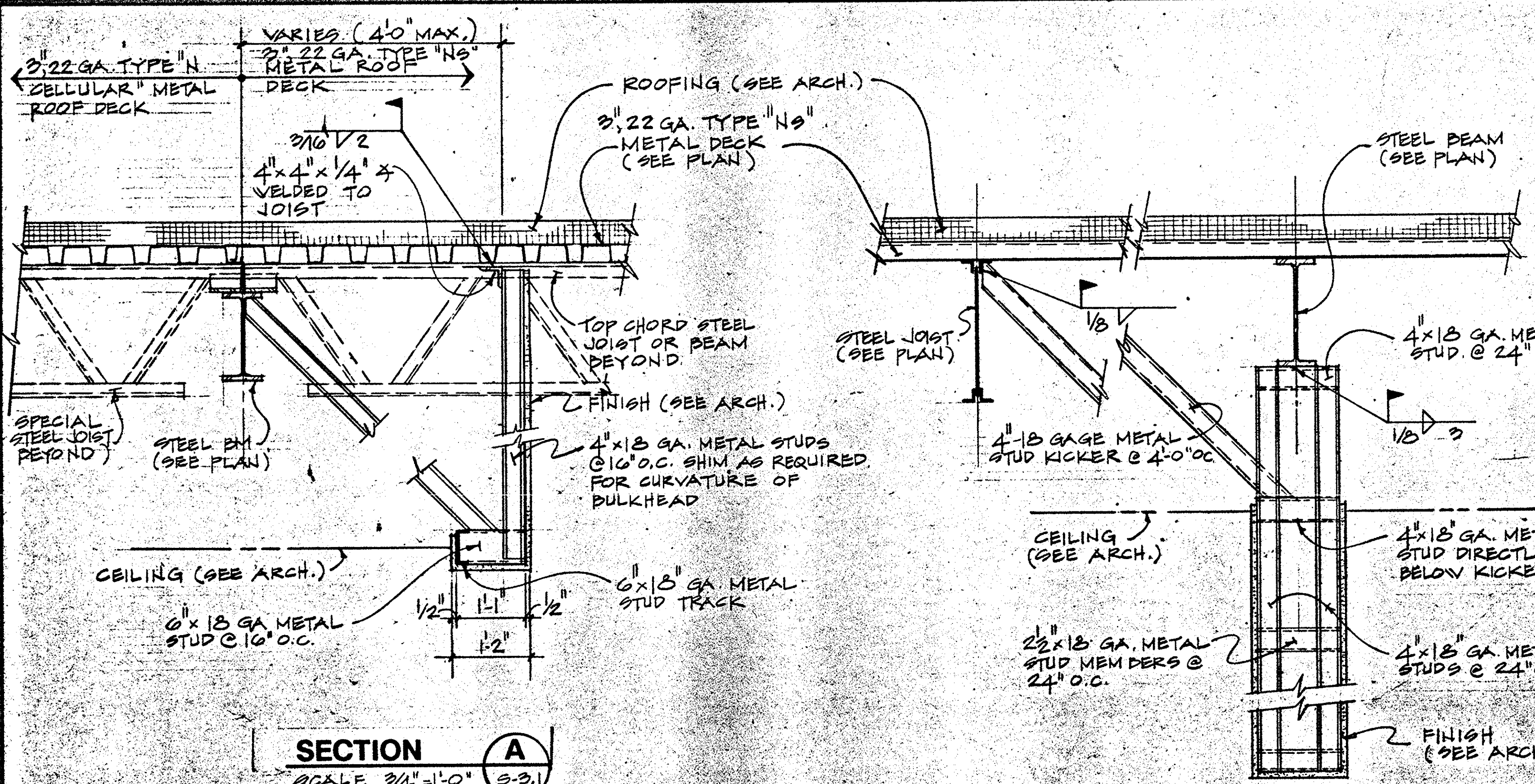


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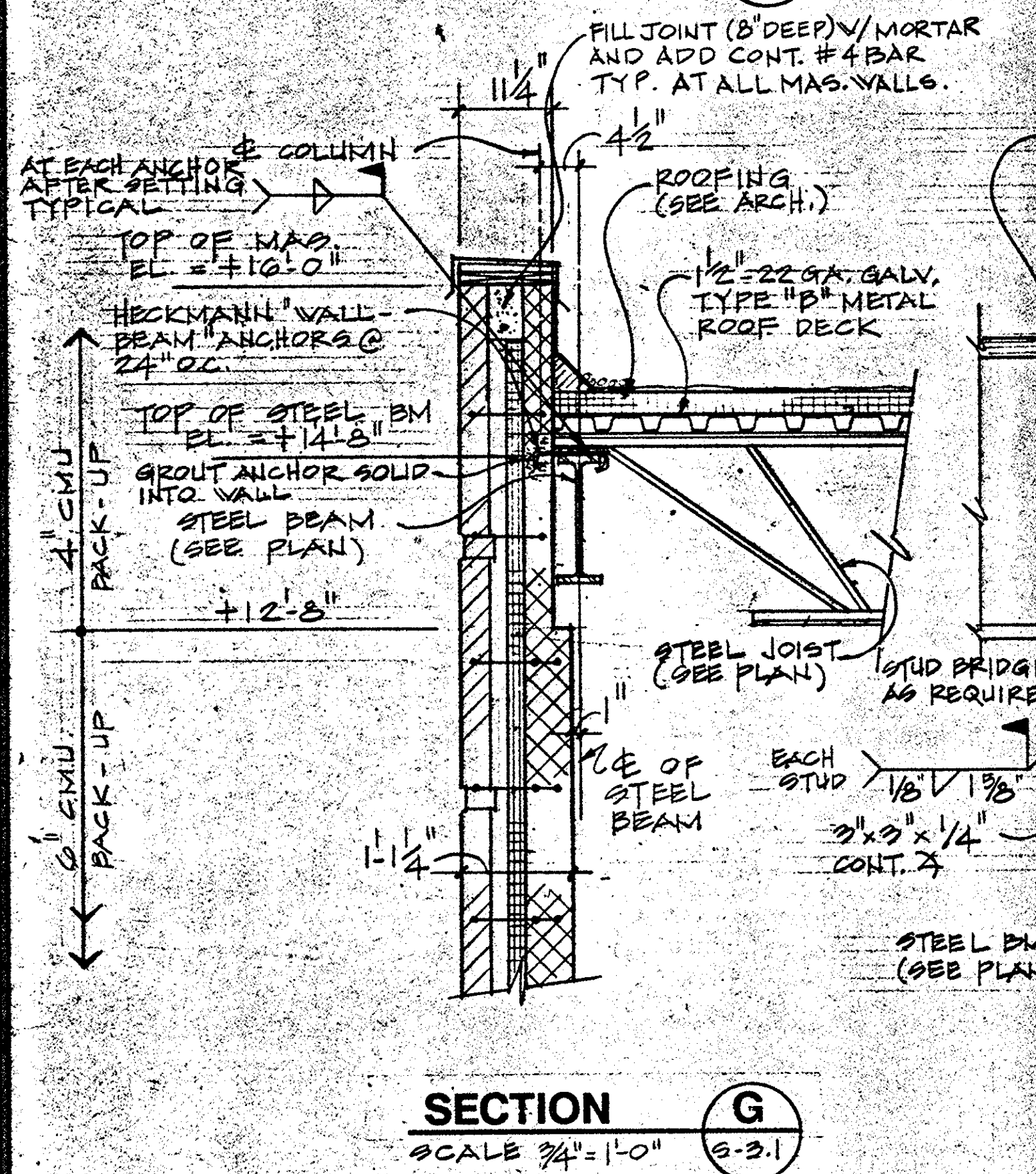
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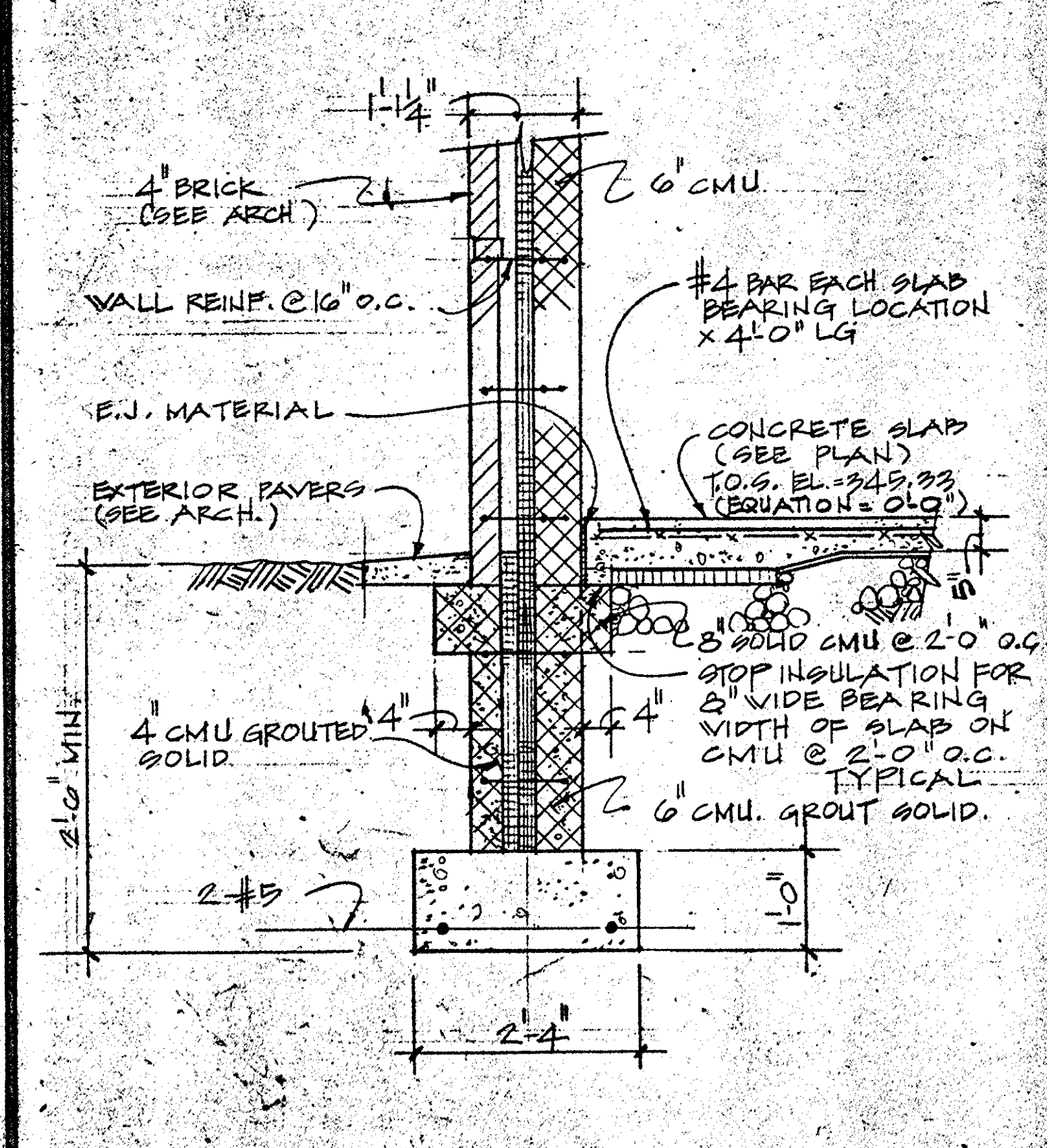
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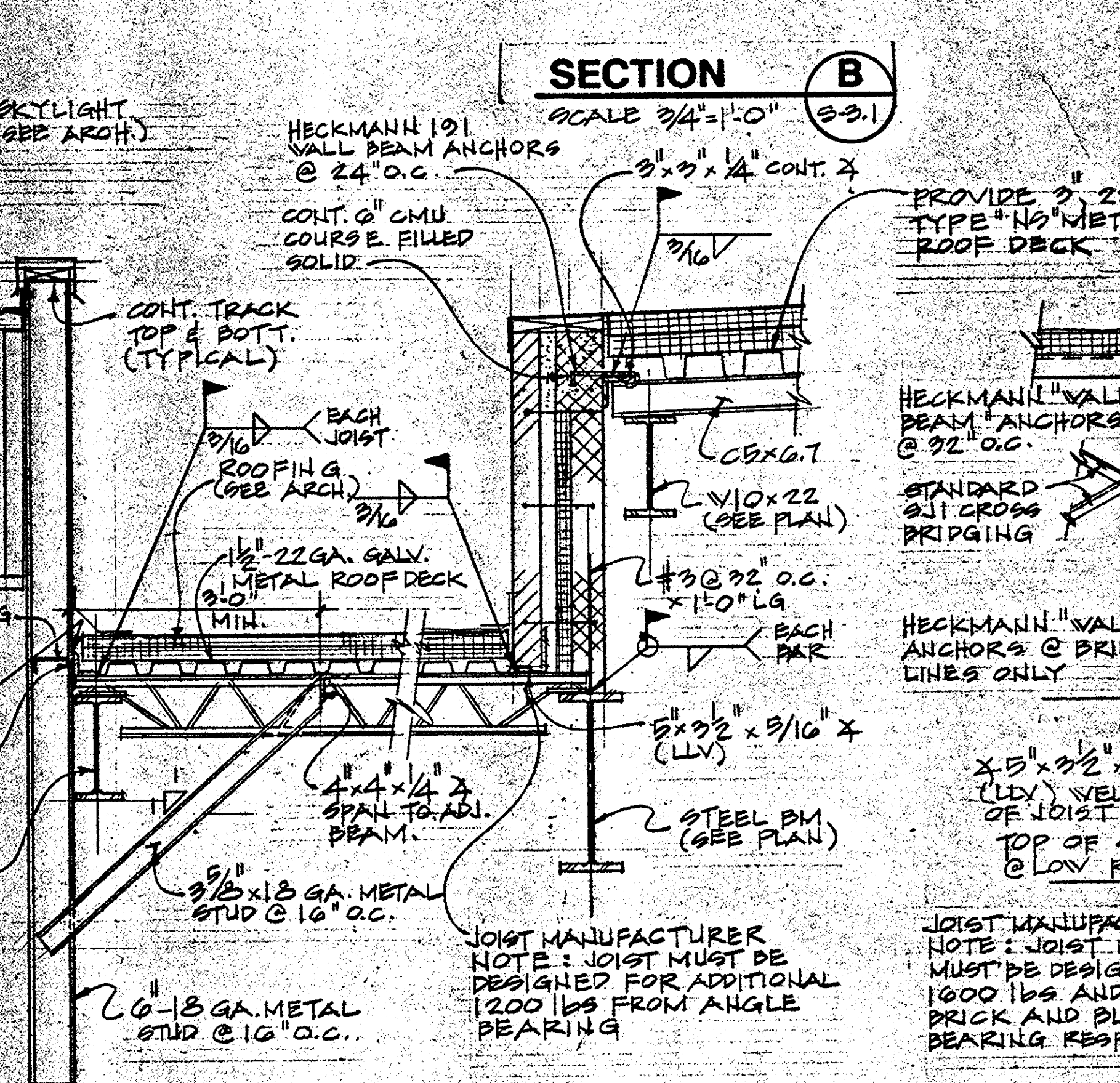
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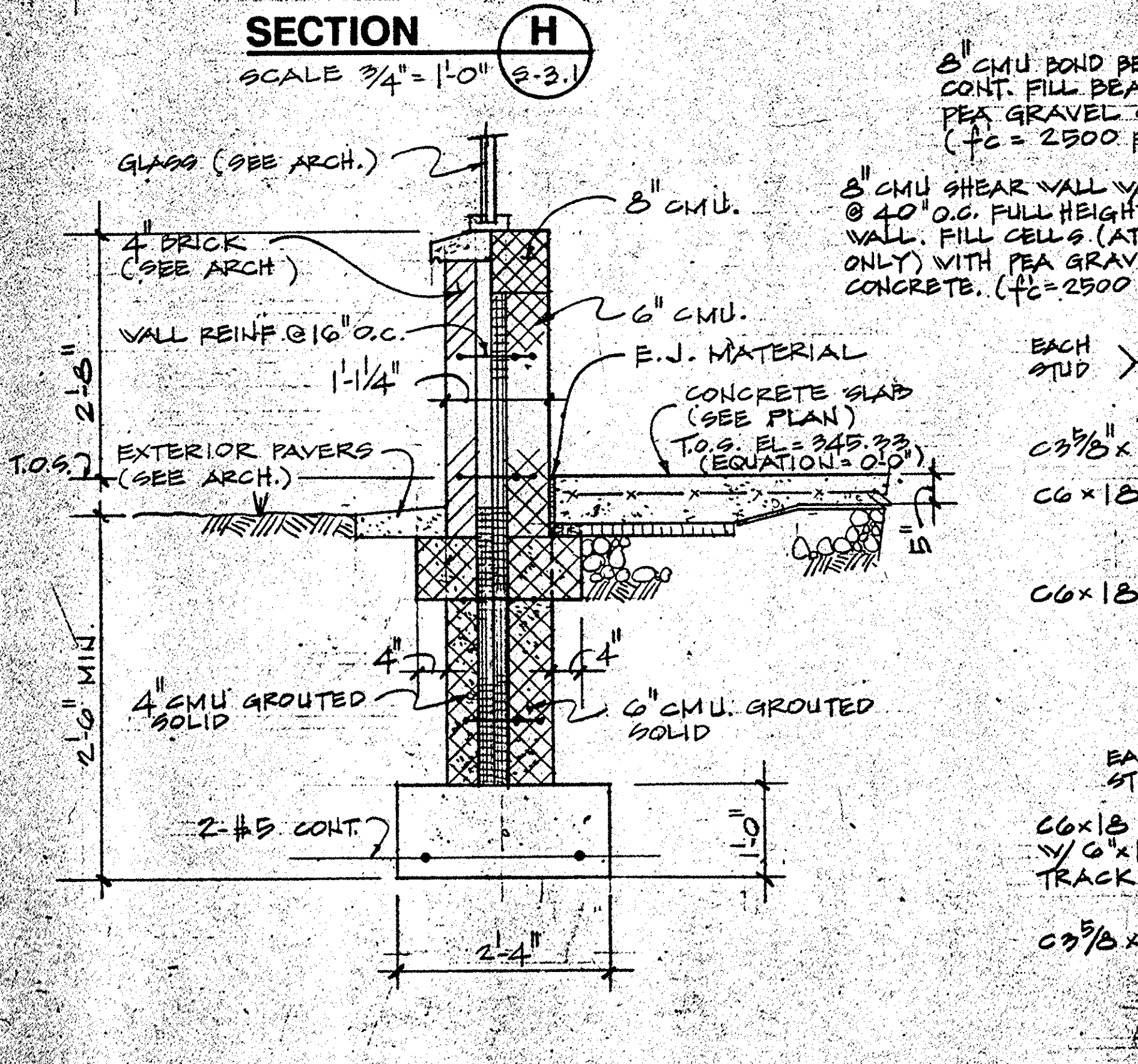
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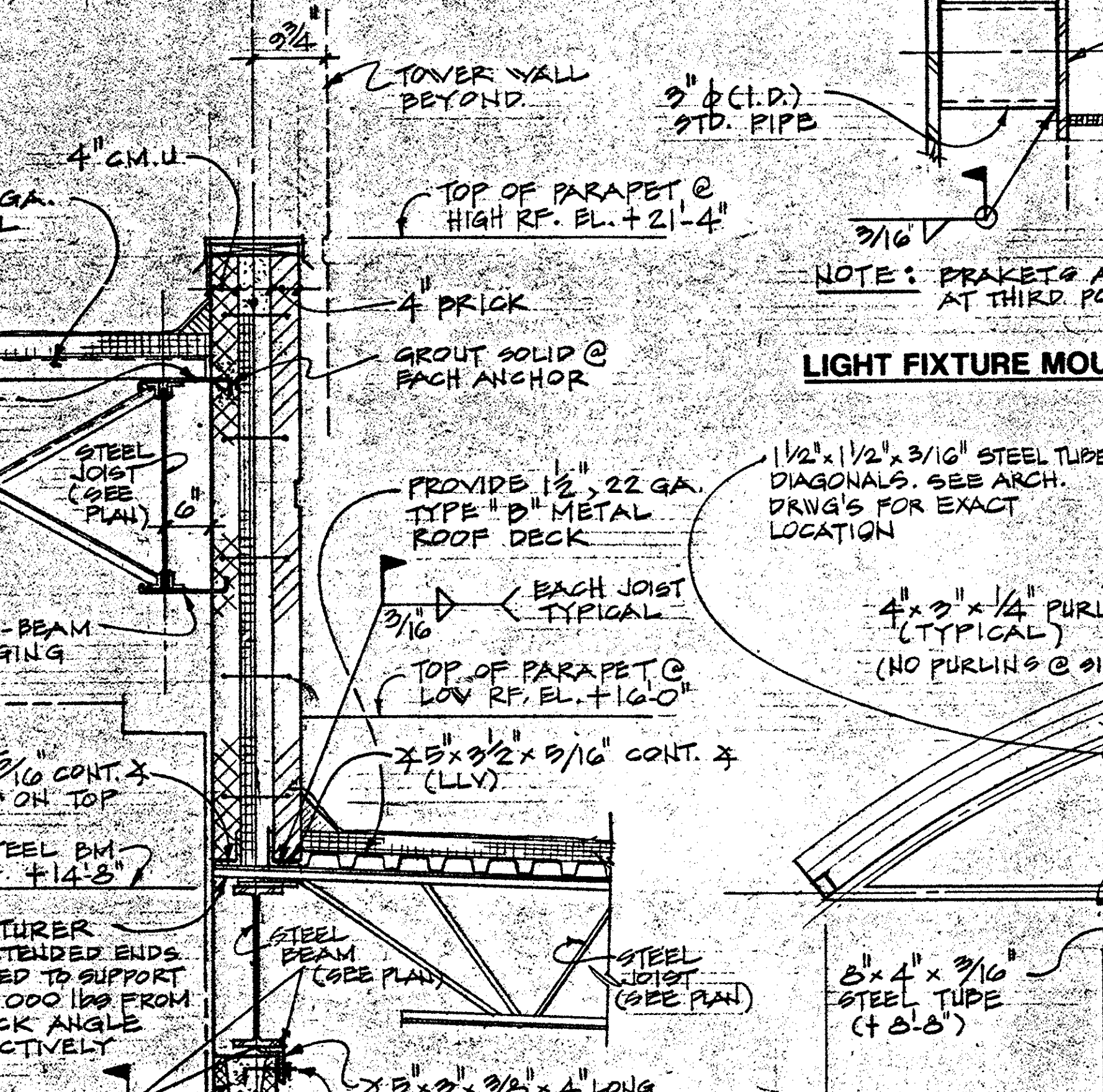
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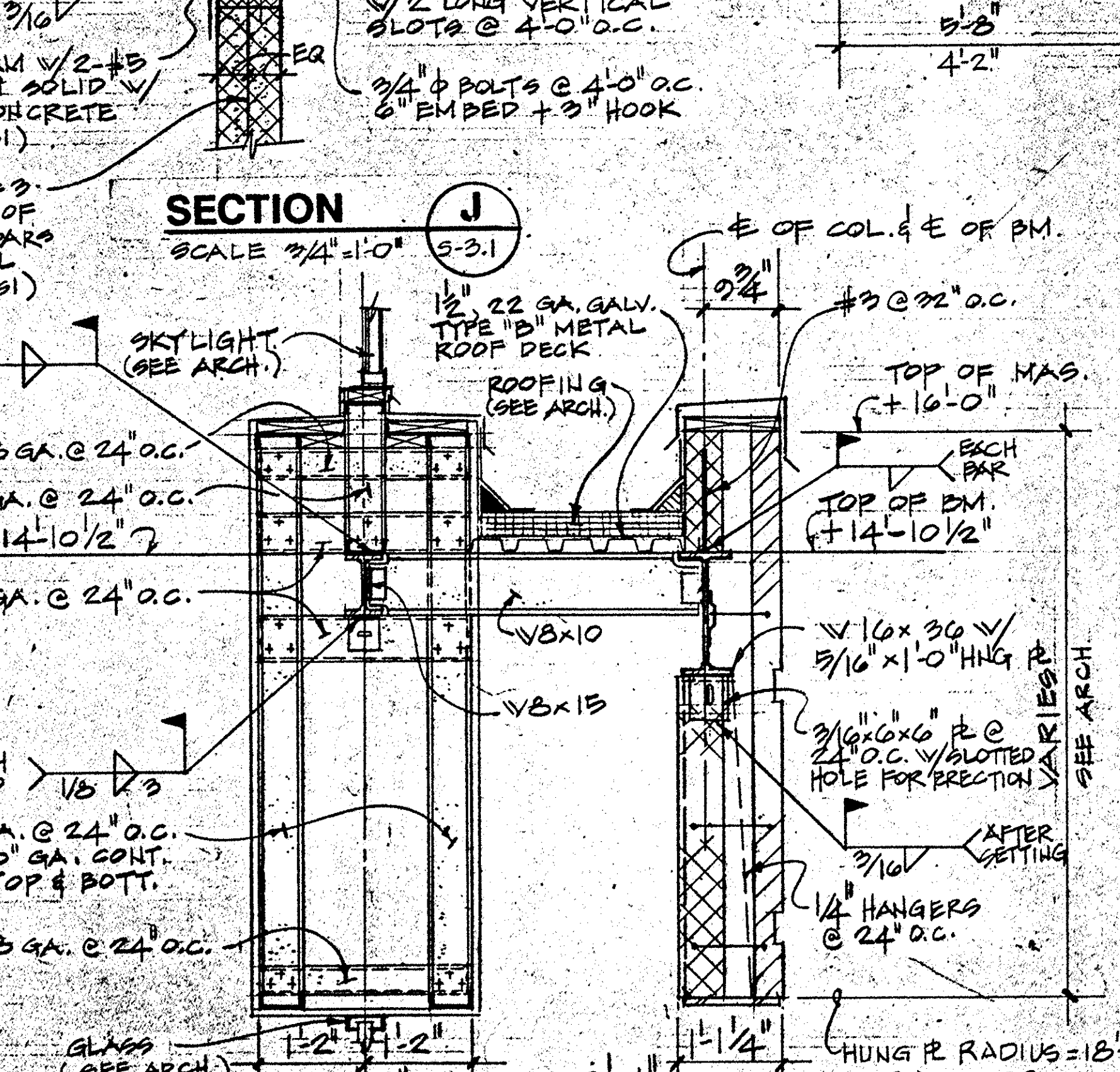
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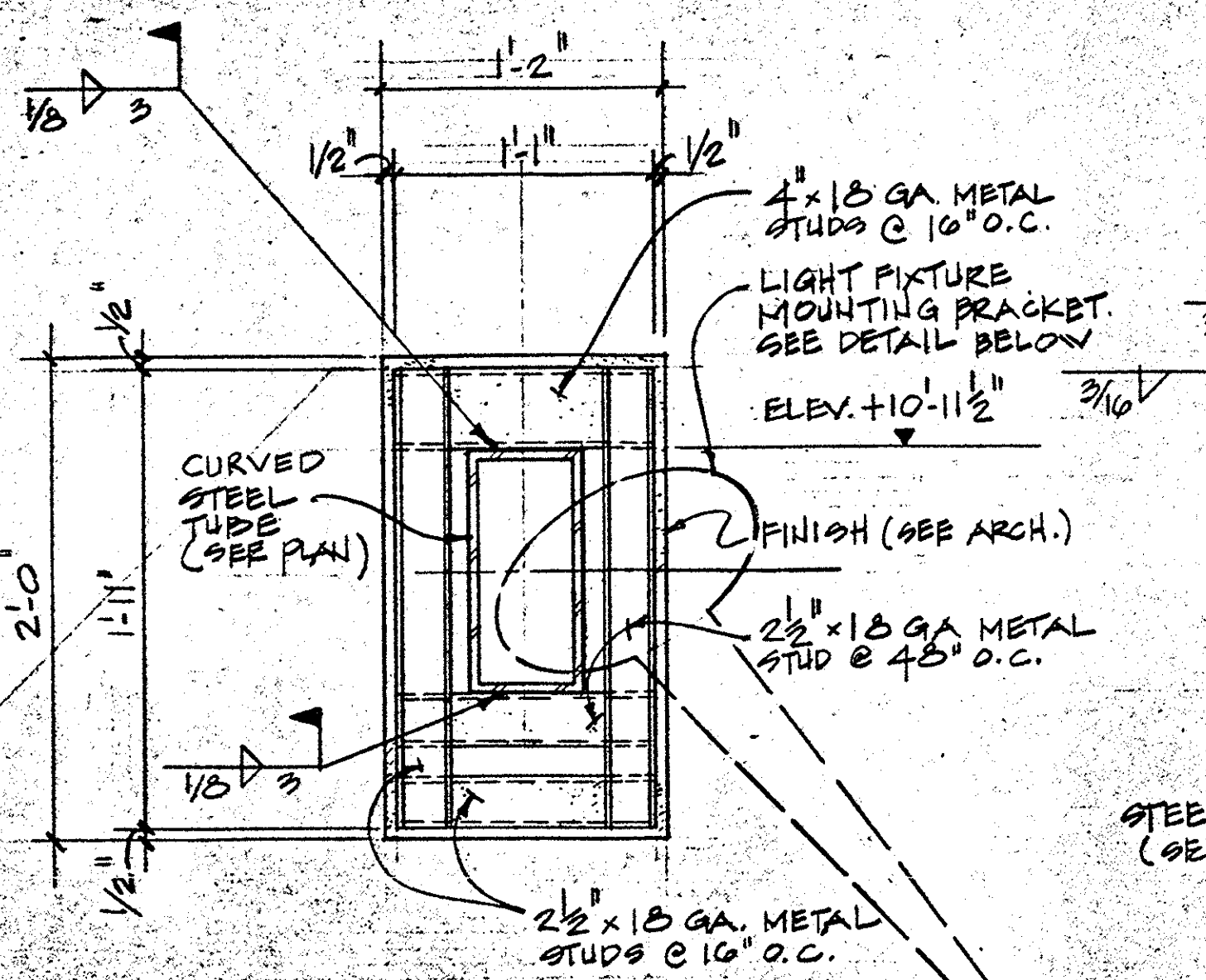
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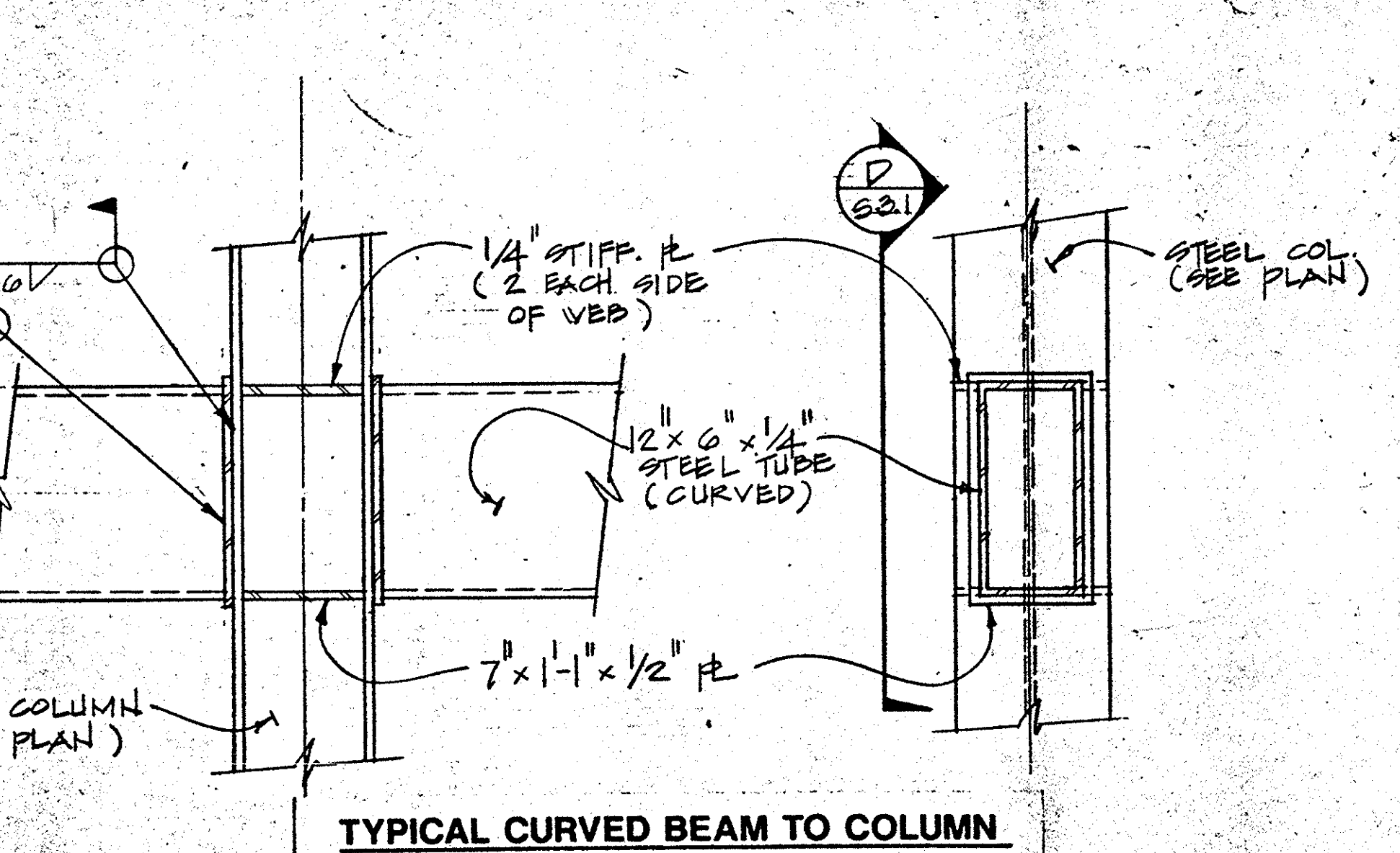
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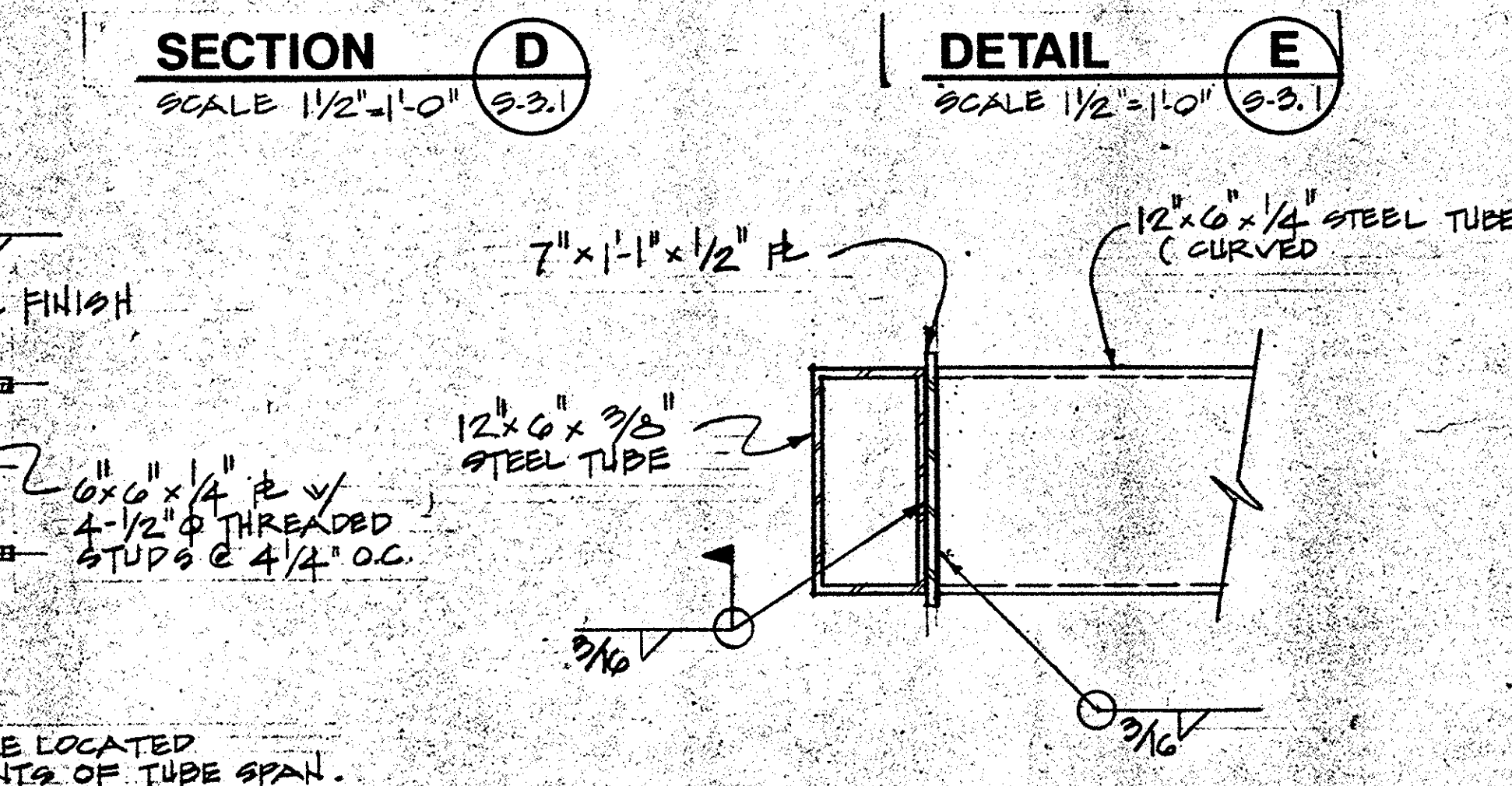
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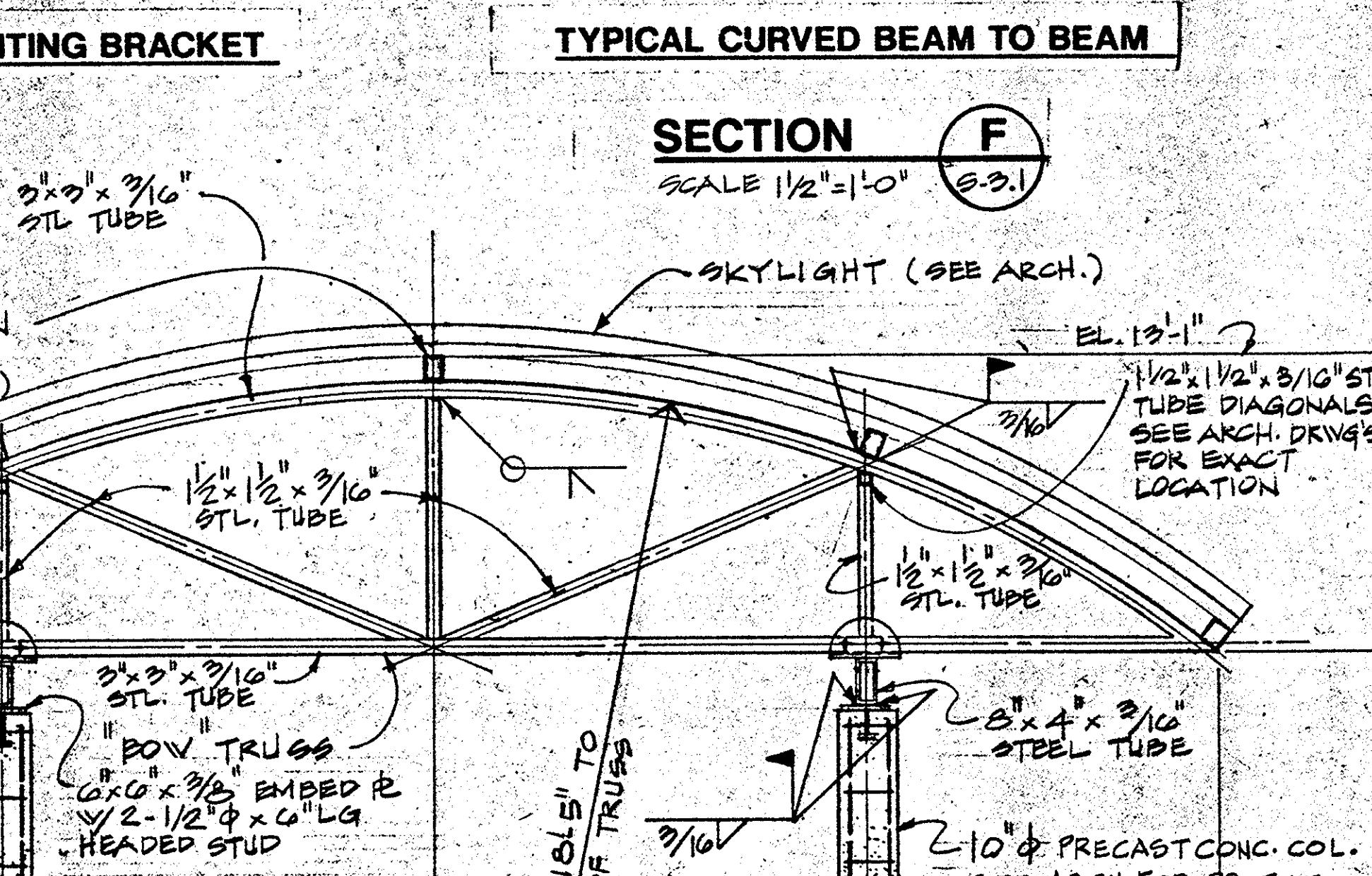
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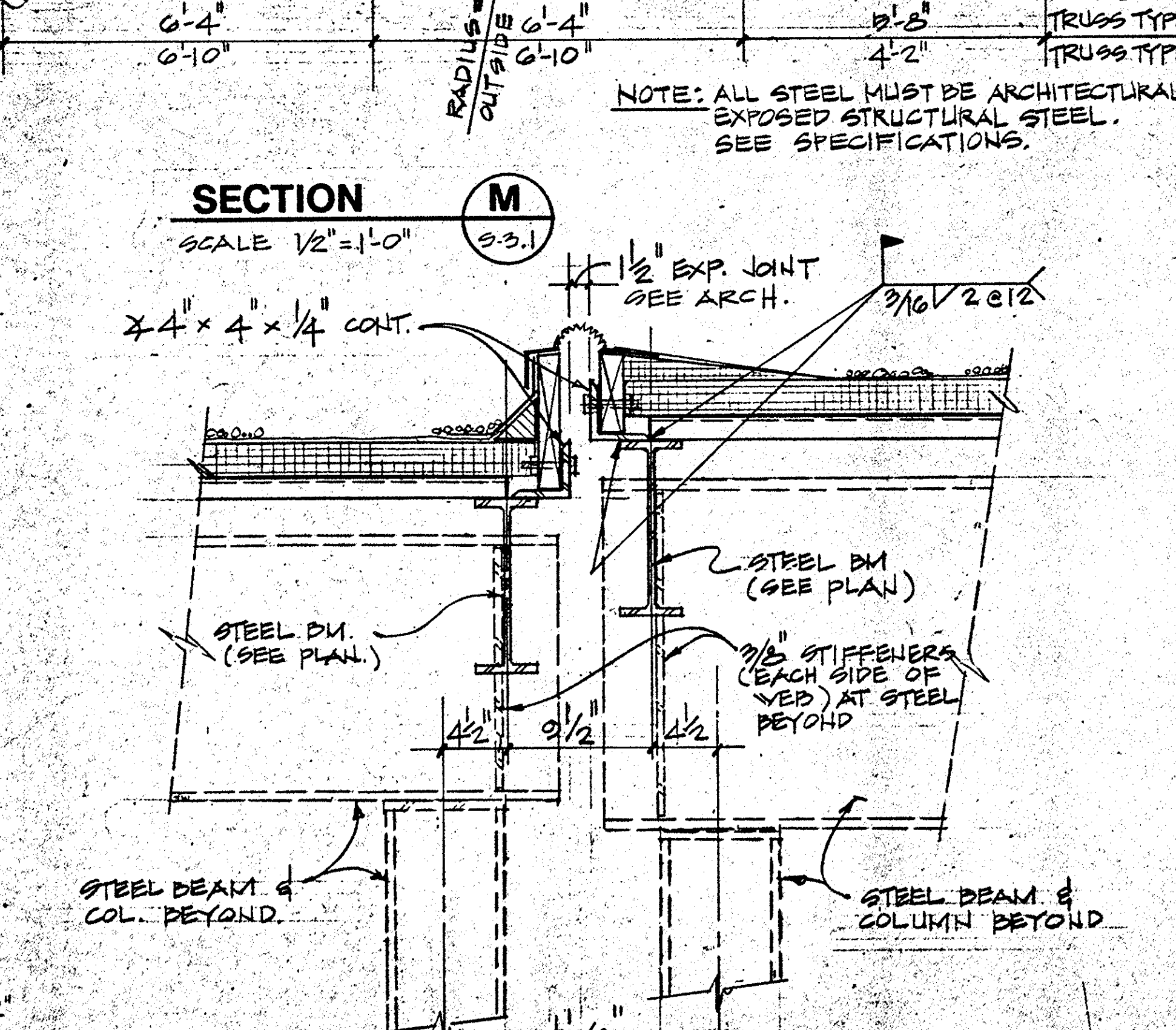
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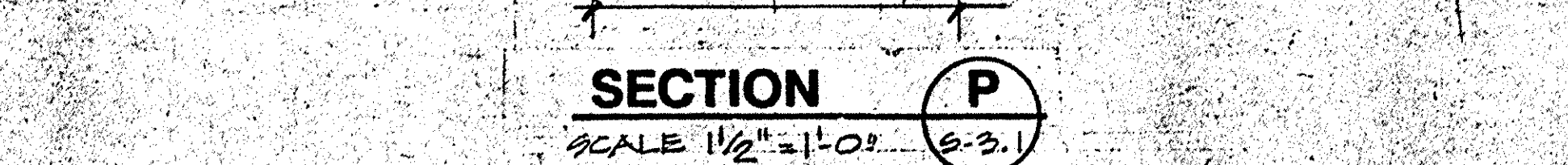
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SCALE 1/2\"/>



**SECTION F**  
SCALE 1/2\"/>



**SECTION M**  
SCALE 1/2\"/>



**SECTION P**  
SCALE 1/2\"/>

3\"/>

SECTION J: 1 1/2\"/>

NOTE: BRACKETS ARE LOCATED AT THIRD POINTS OF TUBE SPAN.

NOTE: ALL STEEL MUST BE ARCHITECTURAL EXPOSED STRUCTURAL STEEL. SEE SPECIFICATIONS.

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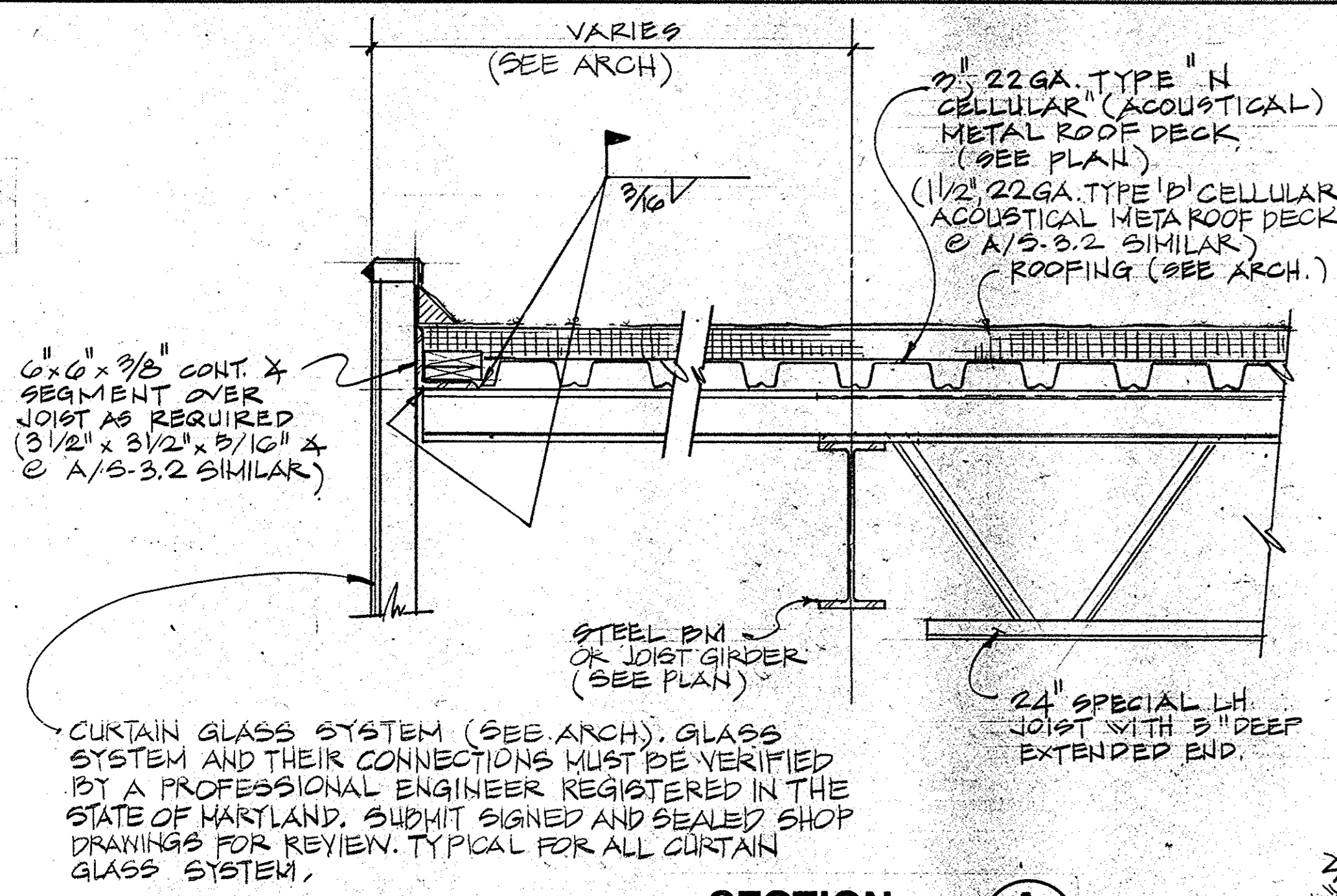
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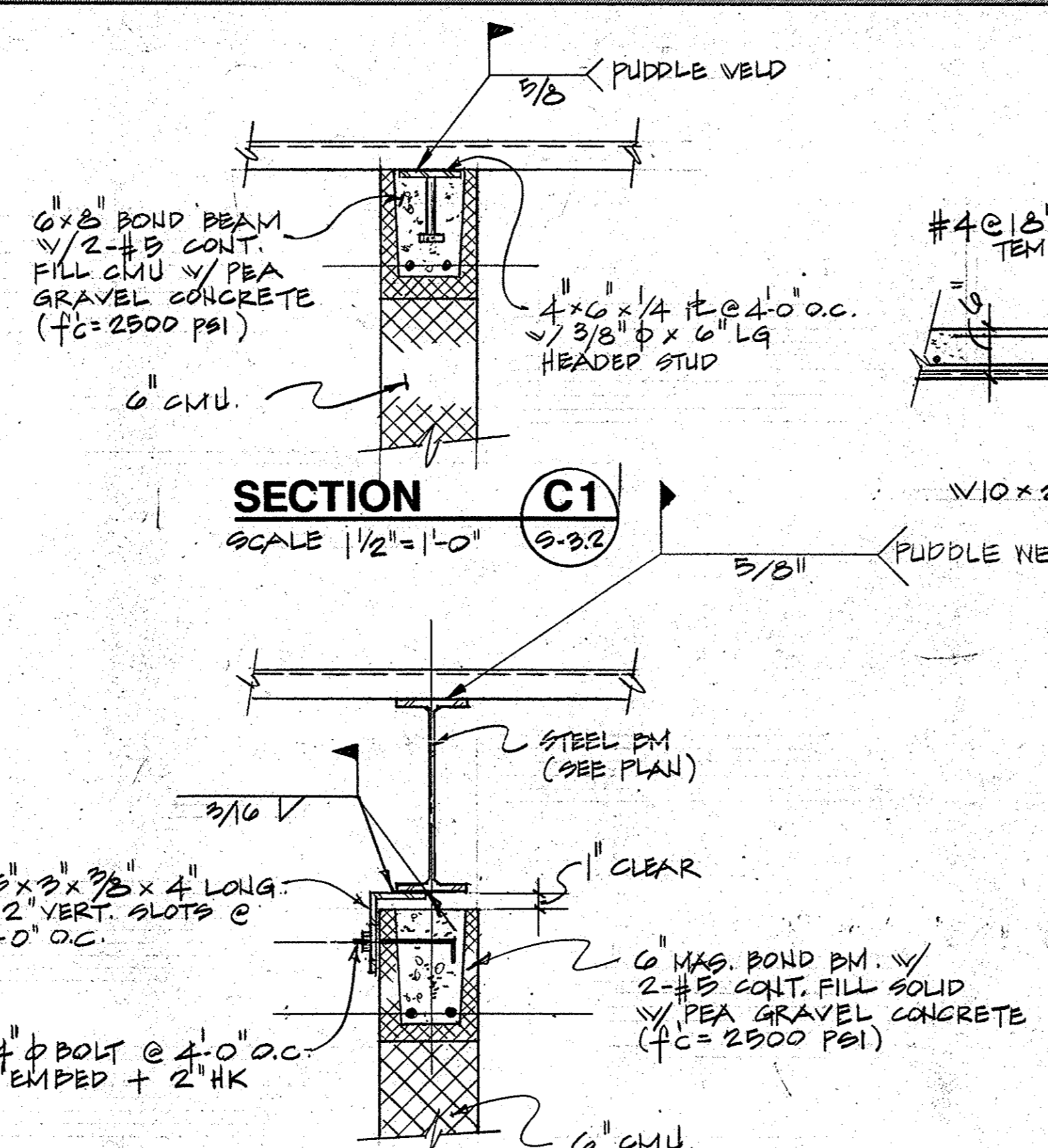
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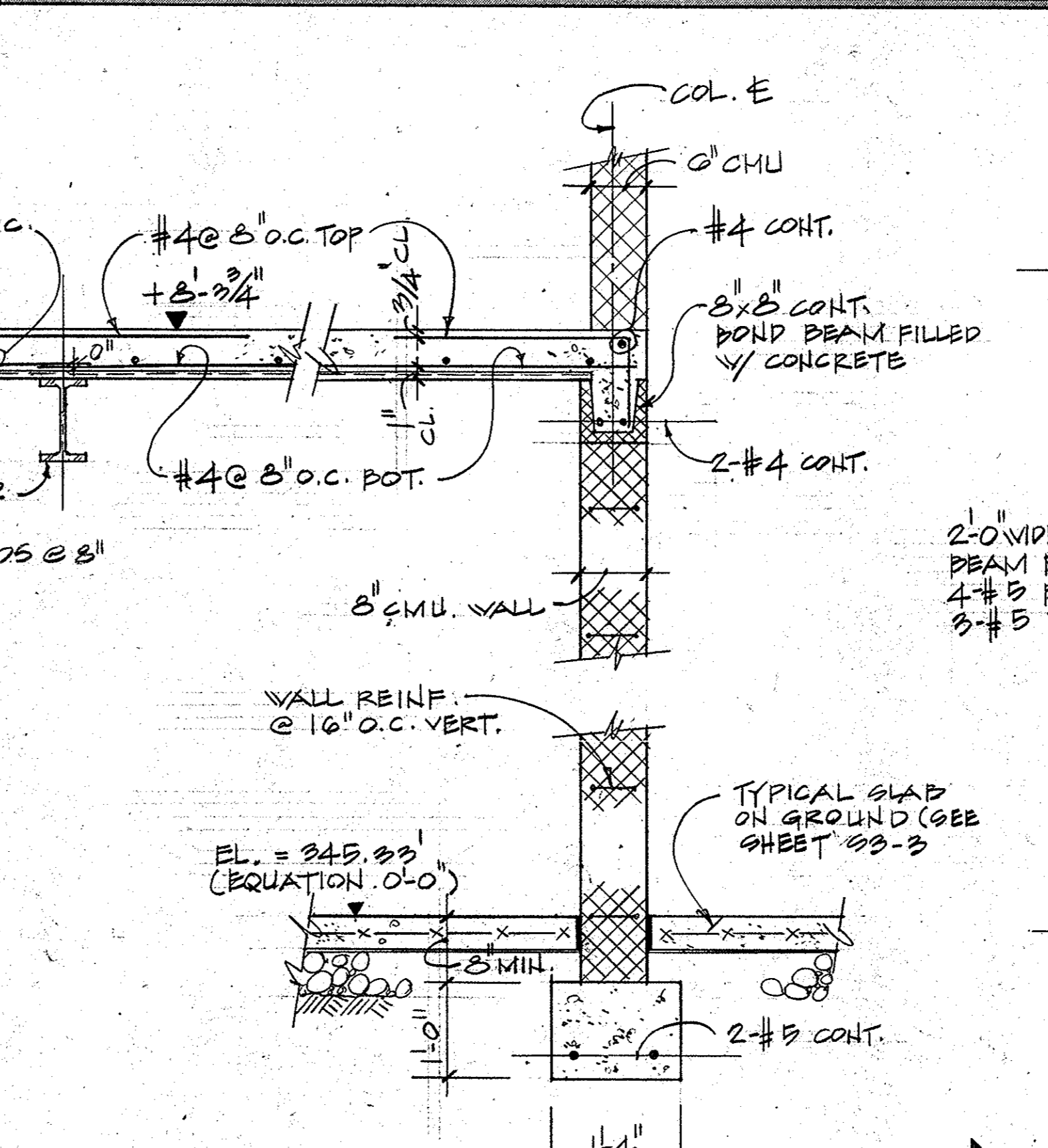
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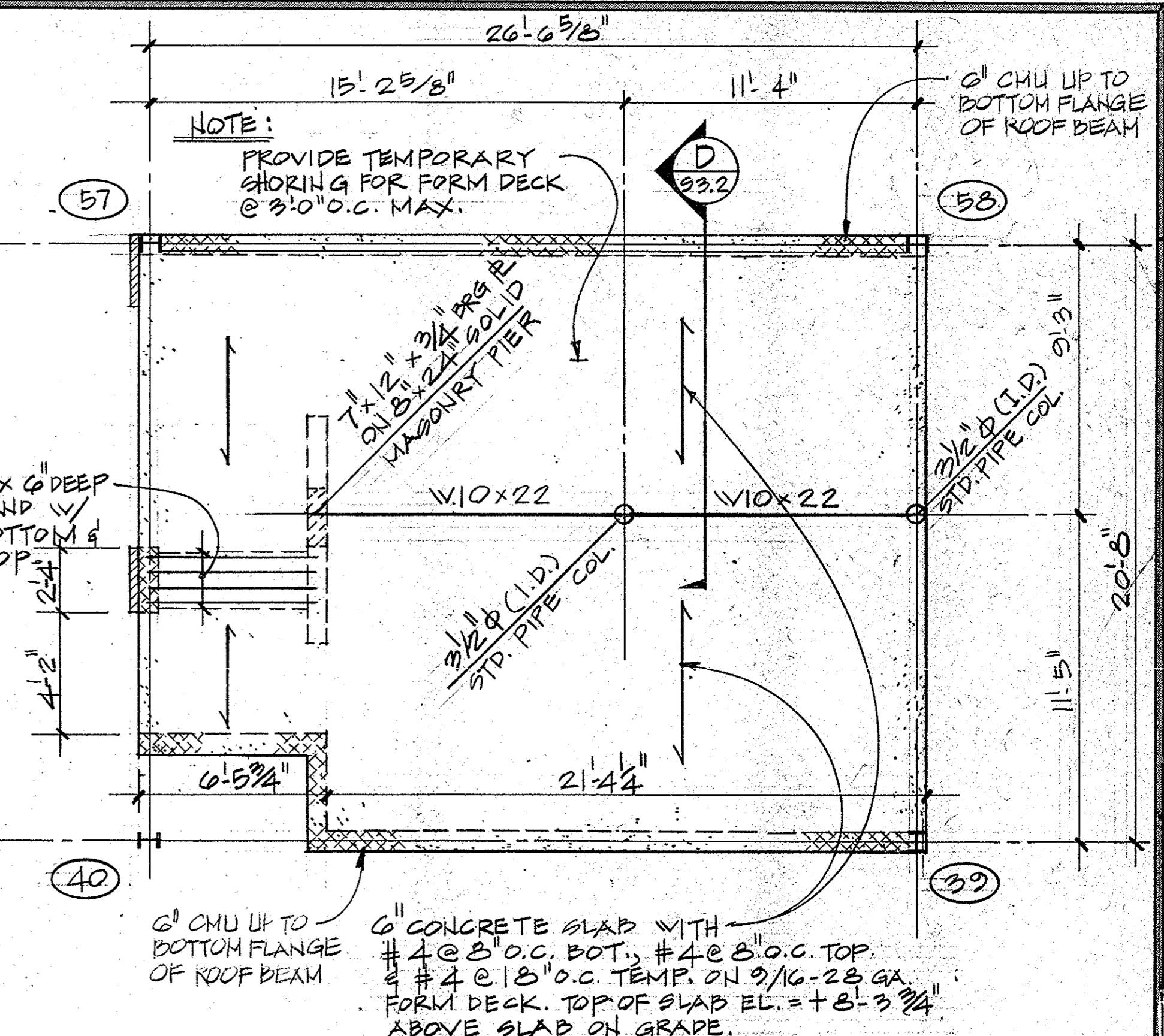
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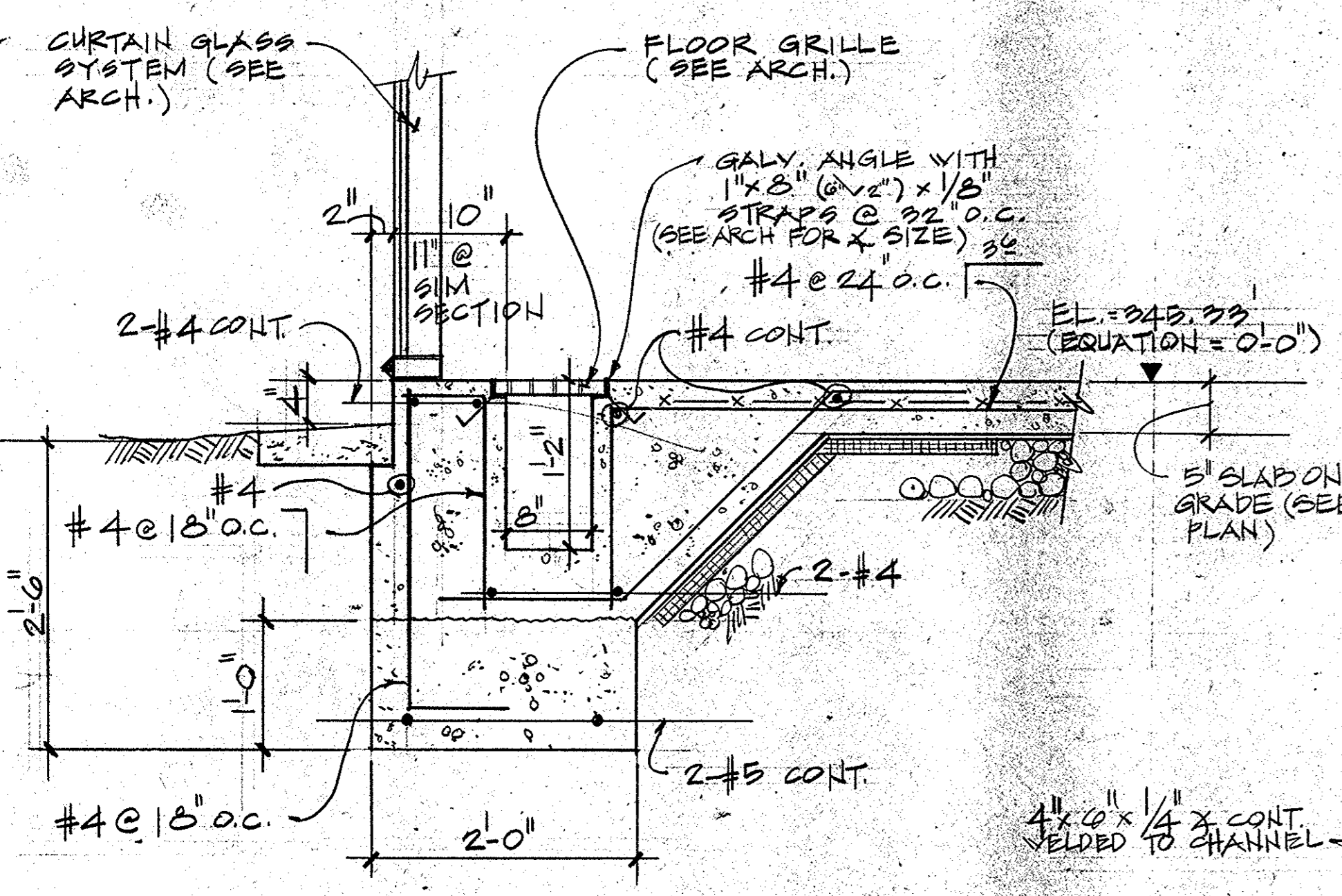
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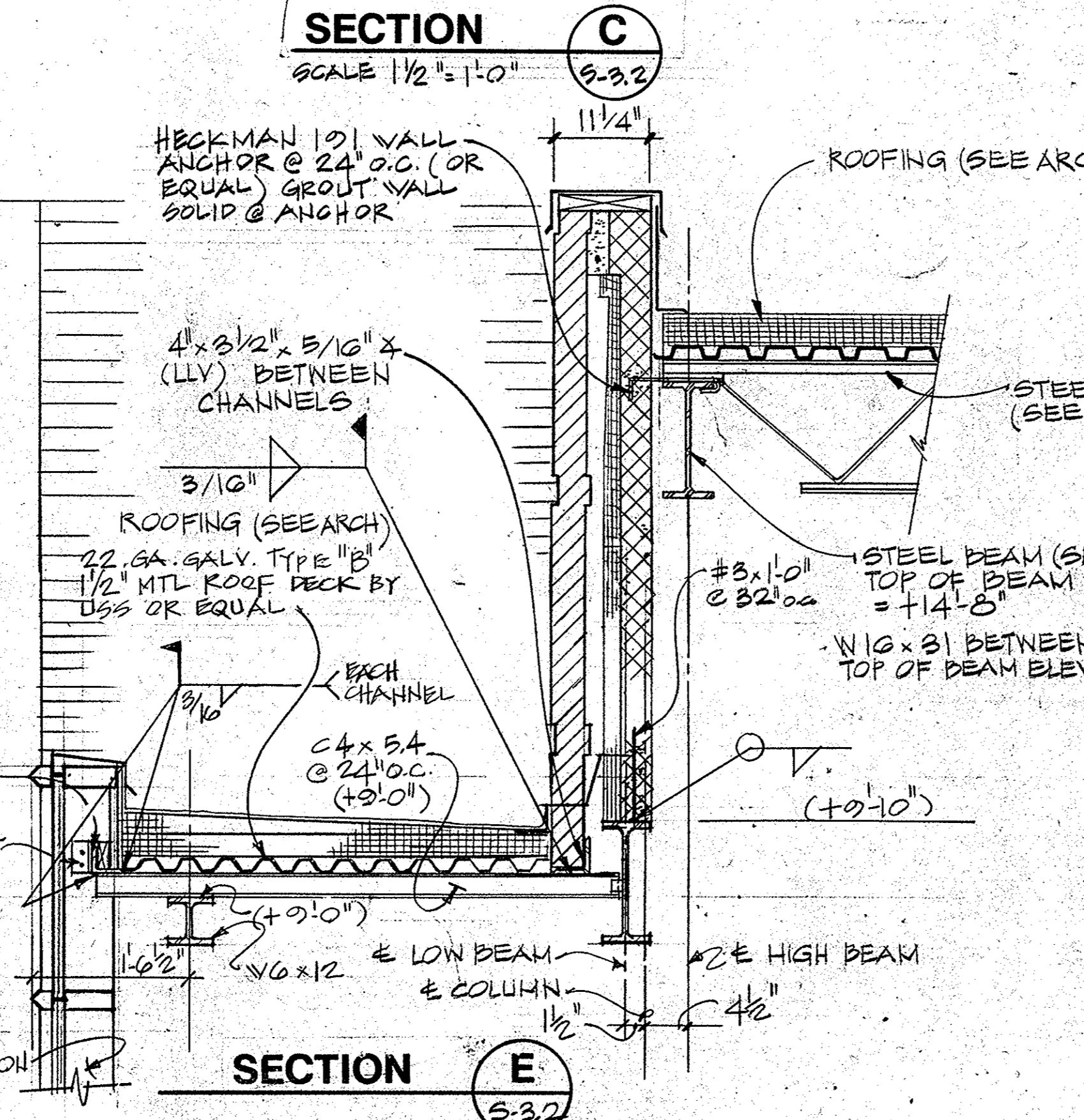
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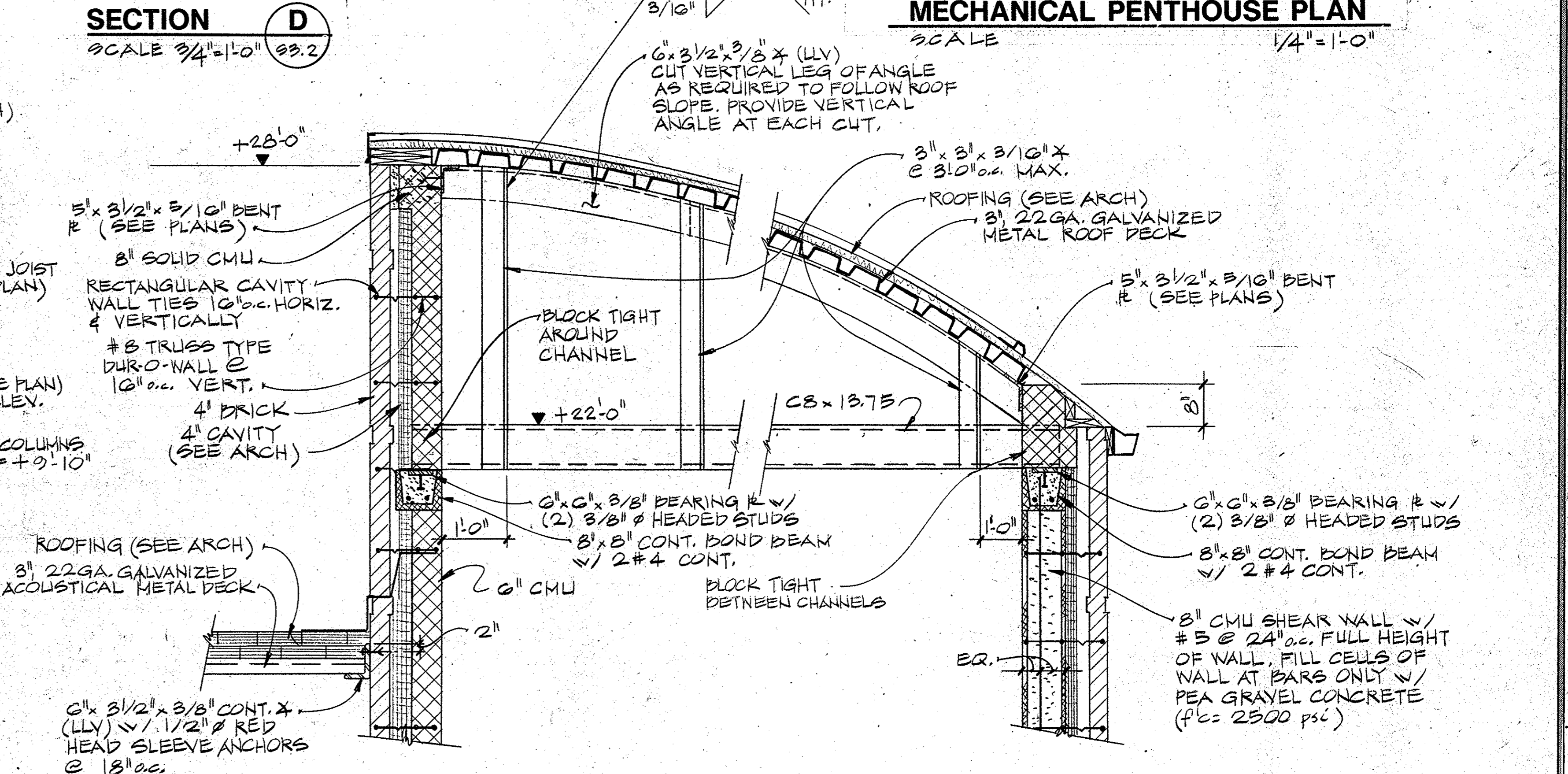
**MECHANICAL PENTHOUSE PLAN**  
SCALE 1/4"=1'-0"



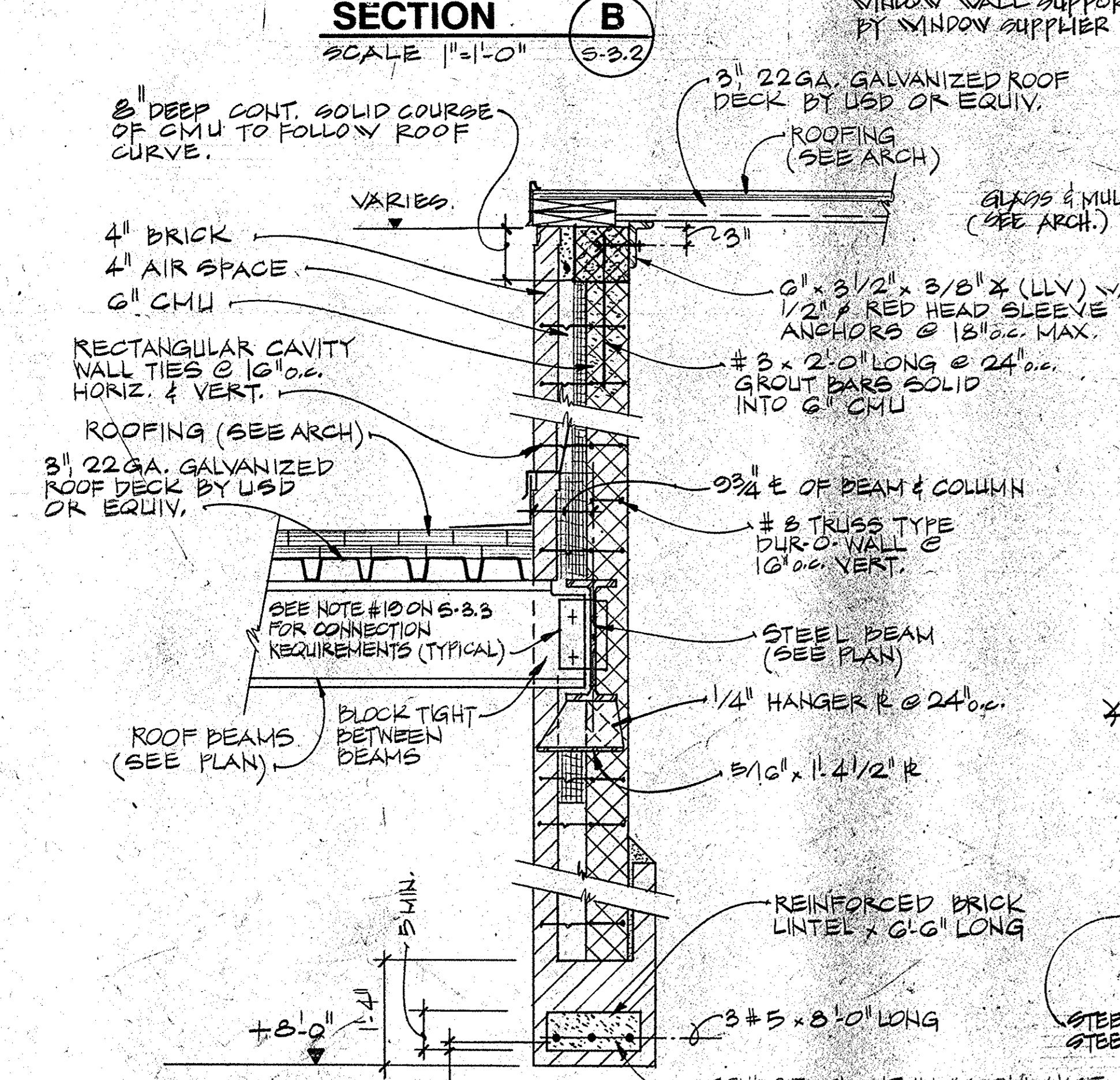
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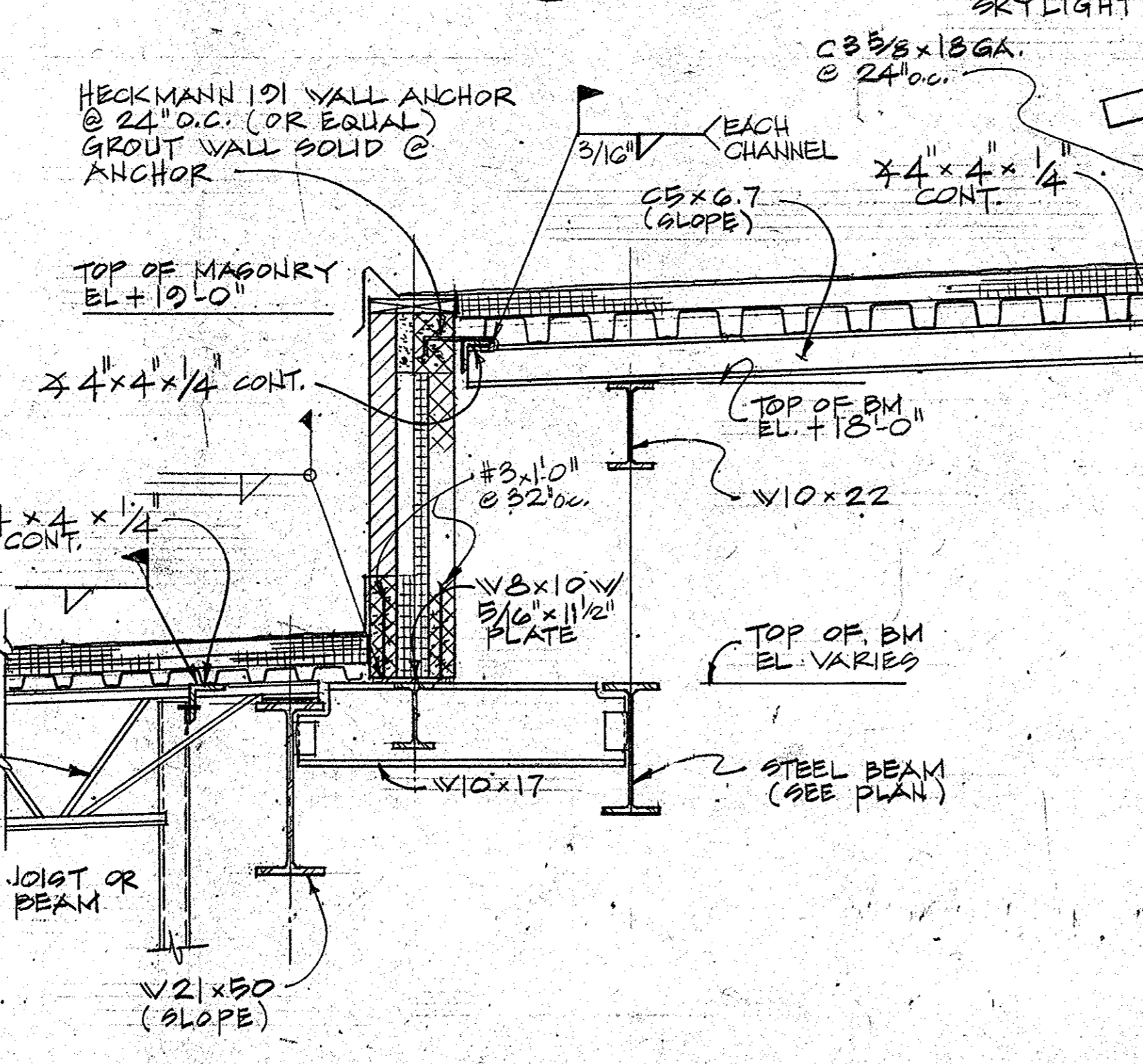
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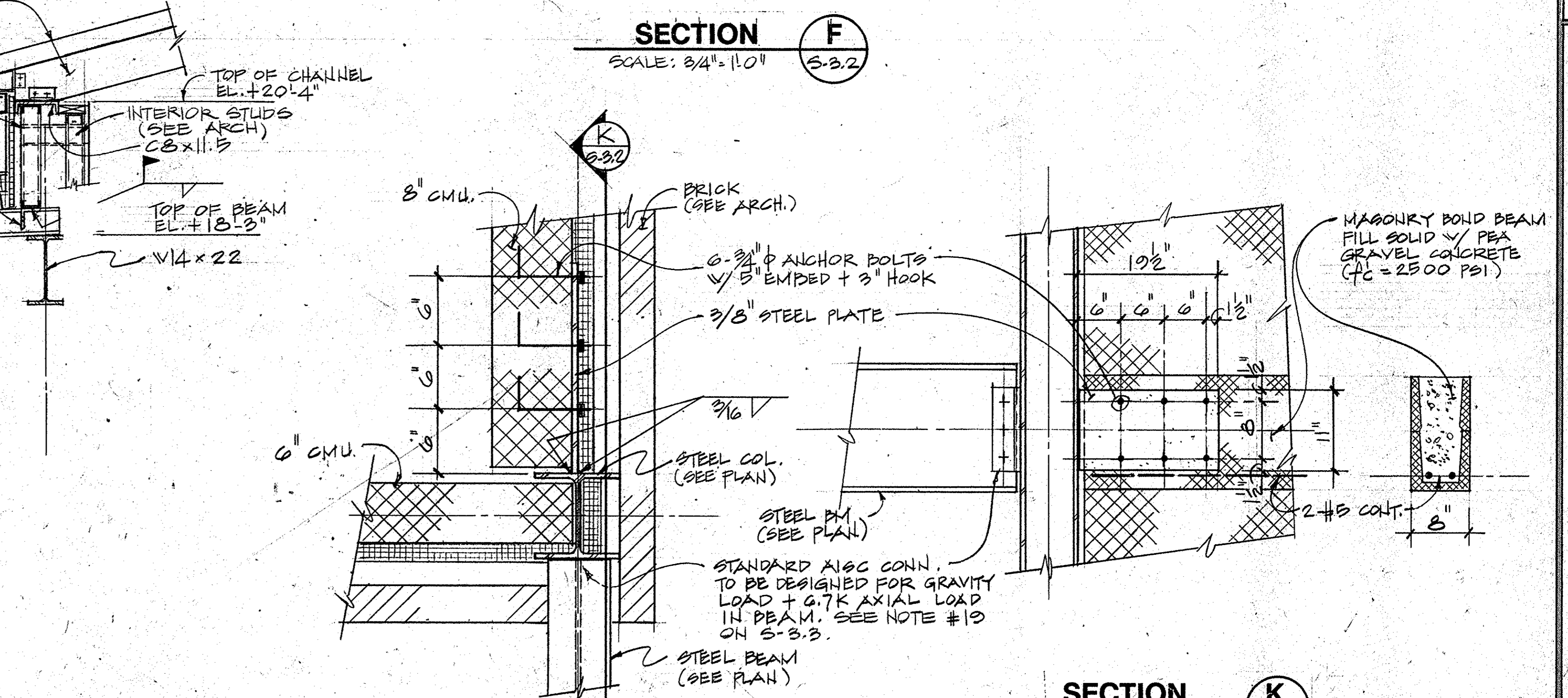
**SECTION D**  
SCALE 3/4"=1'-0" S-3.2



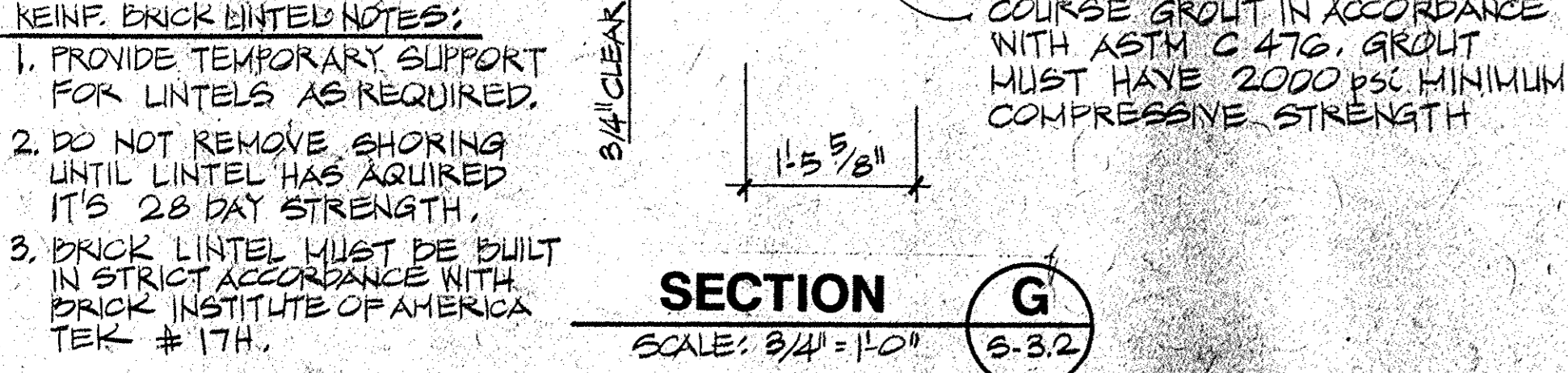
**SECTION E**  
SCALE 1"=1'-0" S-3.2



**SECTION F**  
SCALE 3/4"=1'-0" S-3.2



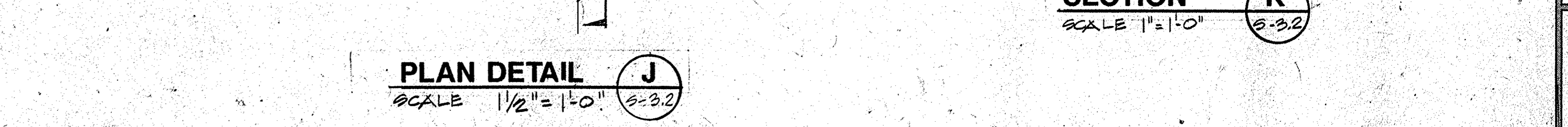
**SECTION G**  
SCALE 1"=1'-0" S-3.2



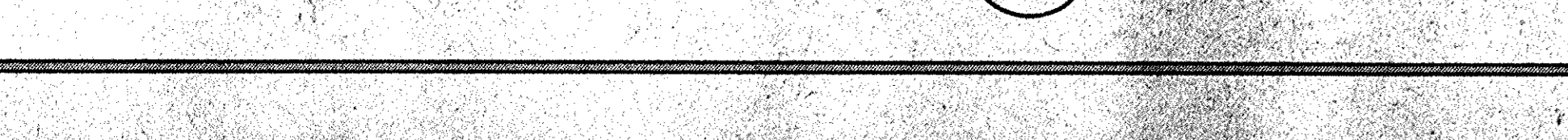
**SECTION H**  
SCALE 3/4"=1'-0" S-3.2



**SECTION I**  
SCALE 1"=1'-0" S-3.2



**SECTION J**  
SCALE 1/2"=1'-0" S-3.2



**SECTION K**  
SCALE 1"=1'-0" S-3.2

**REINFORCED BRICK LINTEL NOTES:**  
 1. PROVIDE TEMPORARY SUPPORT FOR LINTELS AS REQUIRED.  
 2. DO NOT REMOVE SHORING UNTIL LINTEL HAS ACQUIRED ITS 28 DAY STRENGTH.  
 3. BRICK LINTEL MUST BE BUILT IN STRICT ACCORDANCE WITH BRICK INSTITUTE OF AMERICA TEK # 17H.

**COURSE GROUT IN ACCORDANCE WITH ASTM C 476. GROUT MUST HAVE 2000 PSI MINIMUM COMPRESSIVE STRENGTH**

**ALLISON, MCCORMACK & NICKOLAUS**  
 STRUCTURAL ENGINEERS  
 7165 COLUMBIA GATEWAY DRIVE  
 COLUMBIA, MARYLAND 21046  
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 FROM WASHINGTON 290-1177

**GRIMM & PARKER ARCHITECTS**  
 ARCHITECTS • PLANNERS • ENGINEERS  
 4061 POWDER MILL ROAD • SUITE 401 • CALVERTON, MD 20705 • (301) 595-1000 • FAX (301) 595-0089

**SECTIONS and DETAILS**  
**EAST COLUMBIA LIBRARY**  
 HOWARD COUNTY MARYLAND

18-FEB-1992  
 1510 SET

**S-3.2**

AMEN # 20050

**STRUCTURAL NOTES**

NOTE 1 FOOTINGS ARE DESIGNED FOR A BEARING CAPACITY OF 2000 PSF IN ACCORDANCE WITH THE GEOTECHNICAL STUDY-EAST COLUMBIA LIBRARY PREPARED BY BROWN ASSOCIATES, P.C. DATED MARCH 12, 1991. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL, 1'-0" BELOW ORIGINAL GRADE, AND BOTTOM OF EXTERIOR FOOTINGS SHALL BE 3'-0" BELOW FINISHED GRADE. CONTRACTOR SHALL VERIFY SOIL PRESSURE IN THE FIELD. IF FOUND TO BE LESS THAN 2000 PSF, THE FOOTINGS WILL HAVE TO BE REDESIGNED.

NOTE 2 ALL FILL UNDER SLABS ON GRADE SHALL BE COARSE GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM WATER CONTENT. SLABS ON GRADE ARE TO BE STRIP POURED IN ACCORDANCE WITH ACI 302.1R. SAW CUT CONTROL JOINTS SUCH THAT TOTAL AREA BOUNDED BY SAW CUTS AND FORMED EDGES DOES NOT EXCEED 500 SQ. FT.

NOTE 3 DO NOT BACKFILL AGAINST WALLS UNTIL SUPPORTING SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTH.

NOTE 4 SLABS ON GROUND SHALL BE 5" THICK CONCRETE REINFORCED WITH 6" x 6" W1.4 x W1.4 WWF OVER 6 MIL VAPOR BARRIER AND 6" WASHED GRAVEL UNLESS OTHERWISE NOTED.

NOTE 5 ALL SLABS UNLESS OTHERWISE SPECIFIED SHALL HAVE THE FOLLOWING TEMPERATURE REINFORCING:

0" TO 5"	#3 AT 12" O.C.
5" TO 6-1/2"	#3 AT 9" O.C.
OVER 6-1/2"	#4 AT 12" O.C.

NOTE 6 ALL SPLICES IN REINFORCING SHALL BE CLASS "C" SPLICES IN ACCORDANCE WITH ACI 318 (LATEST LOCAL APPROVED EDITION) EXCEPT AS NOTED IN THE PLANS.

NOTE 7 ALL CONCRETE, EXCEPT AS NOTED, SHALL BE (F'c=3,000 PSI) NORMAL WEIGHT CONCRETE AT 28 DAYS. ALL EXPOSED CONCRETE MUST BE AIR ENTRAINED.

NOTE 8 ALL REINFORCING SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 (LATEST LOCAL APPROVED EDITION), GRADE 60. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE ACI'S "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" (ACI 315, LATEST LOCAL APPROVED EDITION).

NOTE 9 UNLESS OTHERWISE NOTED IN STRUCTURAL DRAWINGS, PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS:

CAST AGAINST EARTH EXPOSED TO EARTH OR WEATHER:	3"
NO. 6 AND LARGER BARS	2"
NO. 5 AND SMALLER BARS	1-1/2"
NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS, JOISTS, BEAMS, GIRDERS, COLUMNS	3/4"
	1-1/2" TO TIES, STIRRUPS, OR SPIRALS

NOTE 10 PROVIDE GALVANIZED ROOF DECK UNLESS OTHERWISE NOTED.

NOTE 11 CONCRETE MASONRY SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATIONS C-90. CONCRETE MASONRY TO BE USED SHALL BE SAMPLED AND TESTED BY THE MASONRY SUPPLIER ACCORDING TO ASTM C-140 AND RESULTS SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS IN ALL RESPECTS.

UNLESS OTHERWISE NOTED, ALL HOLLOW CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 P.S.I. ON THE NET AREA. ALL BRICK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 8000 P.S.I. ON THE GROSS AREA.

ALL MORTAR SHALL CONFORM TO ASTM C-270. MORTAR TO BE USED SHALL BE SAMPLED AND TESTED BY THE BRICK AND MASONRY SUPPLIERS ACCORDING TO THE ASTM C-91 AND RESULTS SUBMITTED TO THE ENGINEER FOR APPROVAL. MORTAR SHALL BE TYPE "S" AS A MINIMUM.

NOTE 12 MASONRY CONSTRUCTION IS TO BE INSPECTED BY AN EXPERIENCED, QUALIFIED INSPECTOR APPROVED BY THE STRUCTURAL ENGINEER. INSPECTION IS TO BE PROVIDED PER THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 531, LATEST LOCAL APPROVED EDITION) AND COMMENTARY (ACI 531, LATEST LOCAL APPROVED EDITION).

NOTE 13 LOOSE LINTELS FOR MASONRY WALLS SHALL BE AS FOLLOWS FOR EACH 4" WIDTH:

0'-0" TO 3'-0"	3-1/2" X 3-1/2" X 5/16" ANGLE
3'-1" TO 5'-0"	4" X 3-1/2" X 5/16" ANGLE
5'-1" TO 6'-4"	5" X 3-1/2" X 3/8" ANGLE

ALL ANGLES SHALL HAVE THEIR SHORT LEG OUTSTANDING AND 6" MINIMUM BEARING. LINTELS OVER OPENINGS IN INTERIOR NON-BEARING MASONRY PARTITIONS NOT OTHERWISE SPECIFIED SHALL BE PRECAST LIGHTWEIGHT CONCRETE LINTELS WITH 1 NO. 5 BAR TOP AND BOTTOM FOR EACH 4" WIDTH.

NOTE 14 UNLESS OTHERWISE NOTED PROVIDE ANCHORAGE OF MASONRY WALLS TO THE STRUCTURE IN THE FOLLOWING MANNER:

AT STEEL BEAMS	HECKMAN TOP FLANGE ANCHOR OR EQUIVALENT AT 16" O.C.
AT STEEL COLUMNS	ADJUSTABLE MASONRY ANCHORS AT 16" O.C.

NOTE 15 ALL STEEL JOISTS SHALL CONFORM TO THE SJI STANDARD SPECIFICATIONS IN ALL RESPECTS AND SHALL HAVE BRIDGING IN ACCORDANCE WITH THE SJI SPECIFICATIONS. JOISTS SHALL BE WELDED TO STEEL SUPPORTS WITH A MINIMUM OF TWO-1" WELDS. MINIMUM BEARING SHALL BE 2-1/2" ON STEEL, 4" ON CONCRETE AND 4", 5", OR 6" ON MASONRY. (SEE SJI CODE).

NOTE 16 ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION A36 (LATEST LOCAL APPROVED), OR A572 (LATEST LOCAL APPROVED) A-500 GRADE B (LATEST LOCAL APPROVED) OR A-53 (LATEST LOCAL APPROVED) (SEE PLANS) FOR WHICH TEST REPORTS SHALL BE SUBMITTED TO THE ARCHITECT. ALL STEEL SHALL BE DETAILED, FABRICATED, AND ERRECTED IN ACCORDANCE WITH THE AISC MANUAL, AISC SPECIFICATION AND AISC CODE OF STANDARD PRACTICE.

NOTE 17 ALL CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE BEAM. IN GENERAL, FIELD CONNECTIONS SHALL BE MADE WITH 3/4" HIGH TENSILE BOLTS UNLESS OTHERWISE NOTED AND SHOP CONNECTIONS SHALL BE WELDED. THE USE OF "SNUG TIGHT" BOLTED CONNECTIONS WILL NOT BE ACCEPTED.

NOTE 18 ALL BUTT WELDS SHALL BE FULL PENETRATION BUTT WELDS IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE (AWS/AAS D1.1, LATEST APPROVED EDITION). THESE WELDS SHALL BE MADE ONLY BY OPERATORS QUALIFIED BY PRESCRIBED TESTS IN THE STRUCTURAL WELDING CODE IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY. ACCEPTANCE TO BE SUBJECT TO THE INSPECTION AND REVIEW OF AN INDEPENDENT INSPECTION AGENCY.

NOTE 19 WELDING SEQUENCE AND TECHNIQUE SHALL BE SUCH THAT DISTORTION OF STEEL MEMBERS IS MINIMIZED AND UNDESIRABLE DISTORTION IS AVOIDED.

NOTE 20 ALL CONNECTIONS SHALL BE SINGLE ANGLE OR DOUBLE ANGLE CONNECTIONS IN ACCORDANCE WITH THE AISC MANUAL (LATEST LOCAL APPROVED). ALL OTHER CONNECTIONS WILL NOT BE ACCEPTED UNLESS SIGNED AND SEALED SHOP DRAWINGS AND COMPUTATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND ARE SUBMITTED FOR REVIEW.

NOTE 21 FIELD STRUCTURAL STEEL TO BE INSPECTED BY QUALIFIED INSPECTORS APPROVED BY THE STRUCTURAL ENGINEER. FIELD INSPECTION REPORTS TO BE FILED WITH THE STRUCTURAL ENGINEER WITHIN 5 DAYS OF THE TIME OF ACTUAL INSPECTION. INSPECTORS MUST BE NOTIFIED OF ALL PHASES OF CONSTRUCTION BY THE GENERAL CONTRACTOR.

NOTE 22 SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE GENERAL CONTRACTOR. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE FIRM ALLISON, MCCORMAC & NICKOLAUS, P.A., WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE PROJECT.

AT THE TIME OF SHOP DRAWING SUBMISSION, THE GENERAL CONTRACTOR SHALL STATE IN WRITING ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS BEFORE SUBMISSION AND MAKE ALL CORRECTIONS AS HE DEEMS NECESSARY AND SHALL CERTIFY ON EACH DRAWING AS FOLLOWS:

"I CERTIFY THAT THE CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN MET AND ALL DIMENSIONS, CONDITIONS, AND QUANTITIES ARE VERIFIED AS SHOWN AND/OR AS CORRECTED ON THIS DRAWING."

SIGNED: \_\_\_\_\_ (FOR GENERAL CONTRACTOR)

NOTE 23 ALL CONCRETE WORK SHALL CONFORM TO THE LATEST APPROVED (BY LOCAL GOVERNMENT) EDITIONS OF THE FOLLOWING A.C.I. AND A.S.T.M. DOCUMENTS:

ACI-301	SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
ACI-318	CODE OF COMPRESSION TESTS
ACI-214	UNBONDED TENDONS
ACI-306	COLD WEATHER DETAILING
ACI-315	FORMWORK
ACI-347	HOT WEATHER PROPORTIONS OF CONCRETE
ACI-305	PLACING CONCRETE
ACI-211	READY-MIX CONCRETE
ACI-304	ACI-ASCE COMMITTEE 423
ASTM-C94	

NOTE 24 ALL FIELD AND LAB TESTING OF CONCRETE SHALL CONFORM TO THE LATEST APPROVED (BY LOCAL GOVERNMENT) EDITIONS OF ASTM:

ASTM C-31	FIELD CYLINDER SPECIMENS
ASTM C-143	SLUMP TEST
ASTM C-231	ATR CONTENT (WHEN REQUIRED)
ASTM C-39	LAB TESTING CYLINDERS
ASTM C-172	SAMPLING FRESH CONCRETE
ASTM C-42	HARDENED CORES (WHEN REQUIRED)

UPON COMPLETION OF CONCRETE TESTING, THE AGENCY SHALL CERTIFY THEIR RESULTS AS FOLLOWS:

"I CERTIFY THAT THE FIELD AND LAB TESTING CONFORMS TO THE ASTM DOCUMENTS AND GOOD PRACTICE"

SIGNED: \_\_\_\_\_ P.E. (FOR AGENCY)

NOTE 25 THE BUILDING FRAME IS NOT SELF SUPPORTING UNTIL ALL CONNECTIONS HAVE BEEN MADE, METAL DECK INSTALLED, AND MASONRY SHEAR WALLS INSTALLED. TEMPORARY BRACING MUST BE PROVIDED BY THE ERECTOR TO SUPPORT THE FRAME UNTIL THE ABOVE ITEMS ARE COMPLETED.

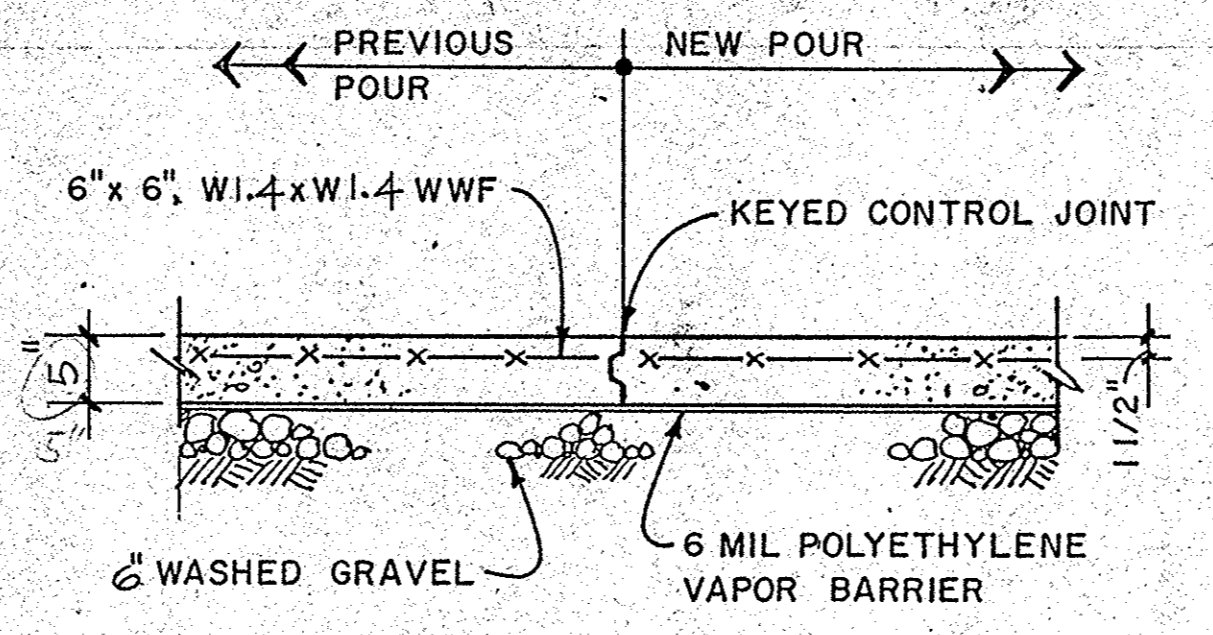
NOTE 26 CONTRACTOR MUST SUBMIT A CONCRETE DESIGN MIX IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION). SUCH DESIGN MIX SHALL BE ACCOMPANIED BY THE APPROPRIATE GRAPHS AND BACKGROUND DATA. CONCRETE DESIGN MIX SHALL INDICATE 7 AND 28 DAY STRENGTHS, CEMENT CONTENT AND WATER-CEMENT RATIO, FINE AND COARSE AGGREGATES AND ADmixTURES FOR EACH DESIGN STRENGTH. THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN 1% MORE THAN THE SPECIFIED WATER CONTENT IS STRICTLY PROHIBITED.

NOTE 27 ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE BUILDING CODE AND ALL LOCAL ORDINANCES. THE OWNER OR CONTRACTOR SHALL HIRE AN EXPERIENCED, QUALIFIED INSPECTOR TO PERFORM ALL THE REQUIRED INSPECTION WORK. THE ENGINEER WILL NOT PERFORM THE REQUIRED INSPECTION AS A PART OF HIS DESIGN SERVICE. THE ENGINEER MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS AND SUCH VISITS ARE NOT TO BE CONSTRUED AS MEETING INSPECTION REQUIREMENTS UNLESS THE ENGINEER SPECIFICALLY SO STATES IN WRITING.

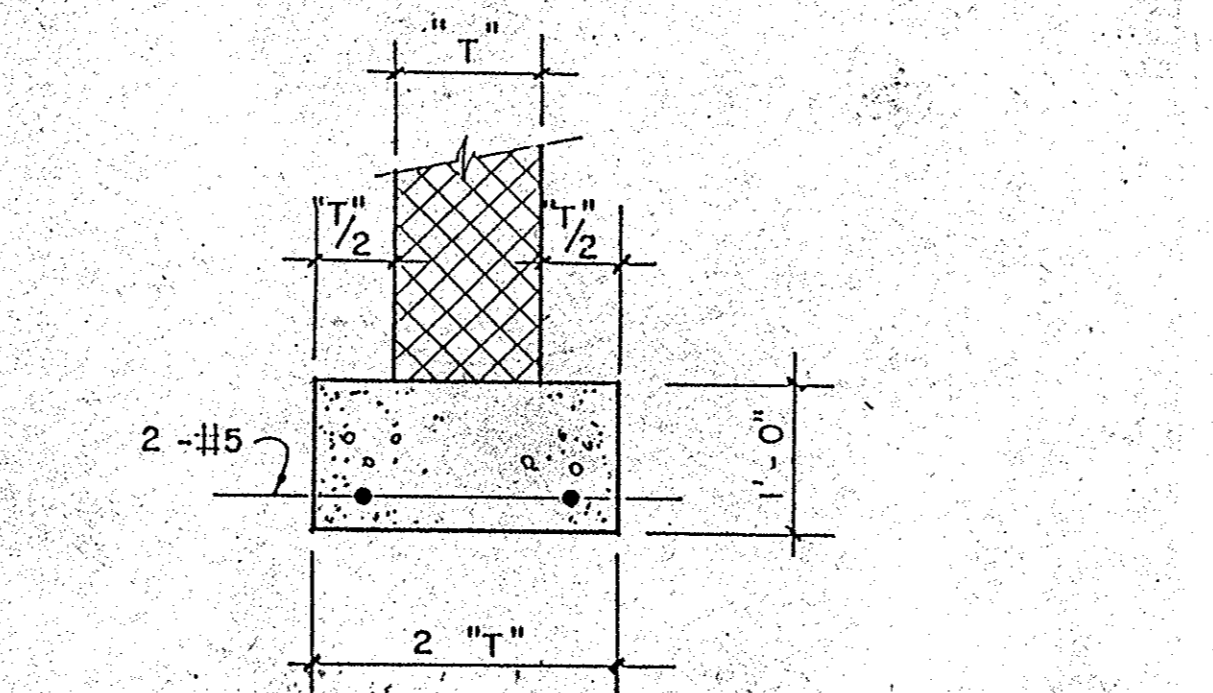
NOTE 28 ALL STAIRS, RAILINGS, METAL STUD WALLS, GLASS STOREFRONT, AND EXTERIOR CEILING SHALL BE DESIGNED FOR LOADS INDICATED IN THE LOCAL BUILDING CODE. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

NOTE 29 LIVE LOADS:

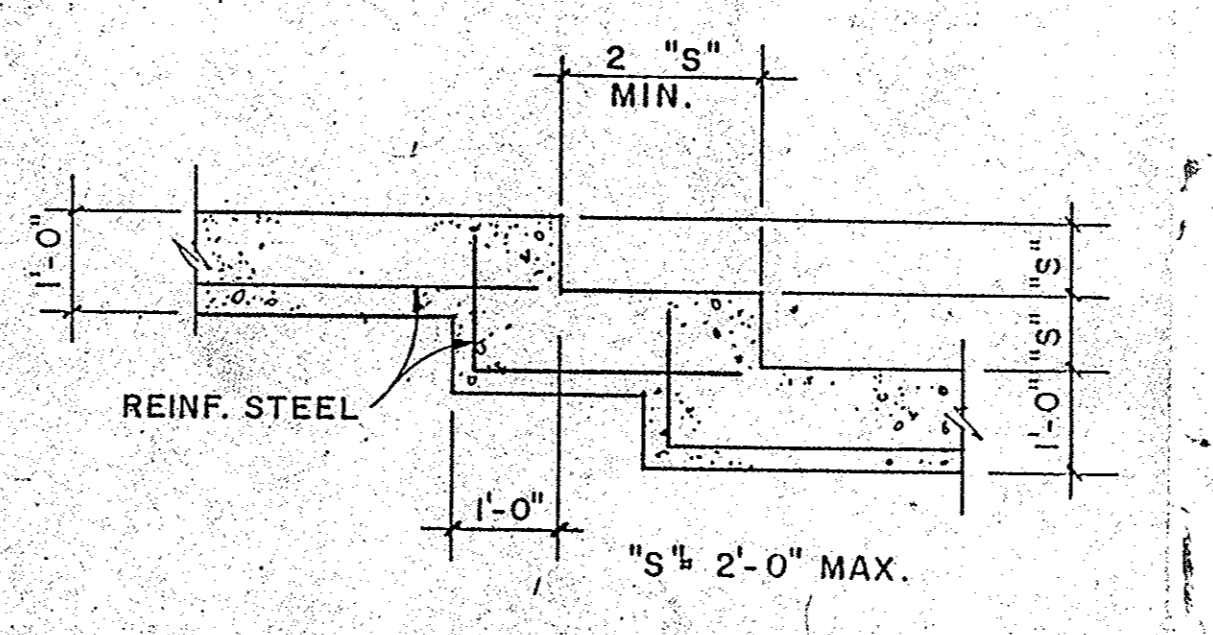
WIND	75 MPH WIND SPEED PER 198 BOCA EXPOSURE "B"
ROOF	30 PSF AND INCREASE FOR DRIFTING PER 1987 BOCA CODE
SLAB ON GROUND	100 PSF



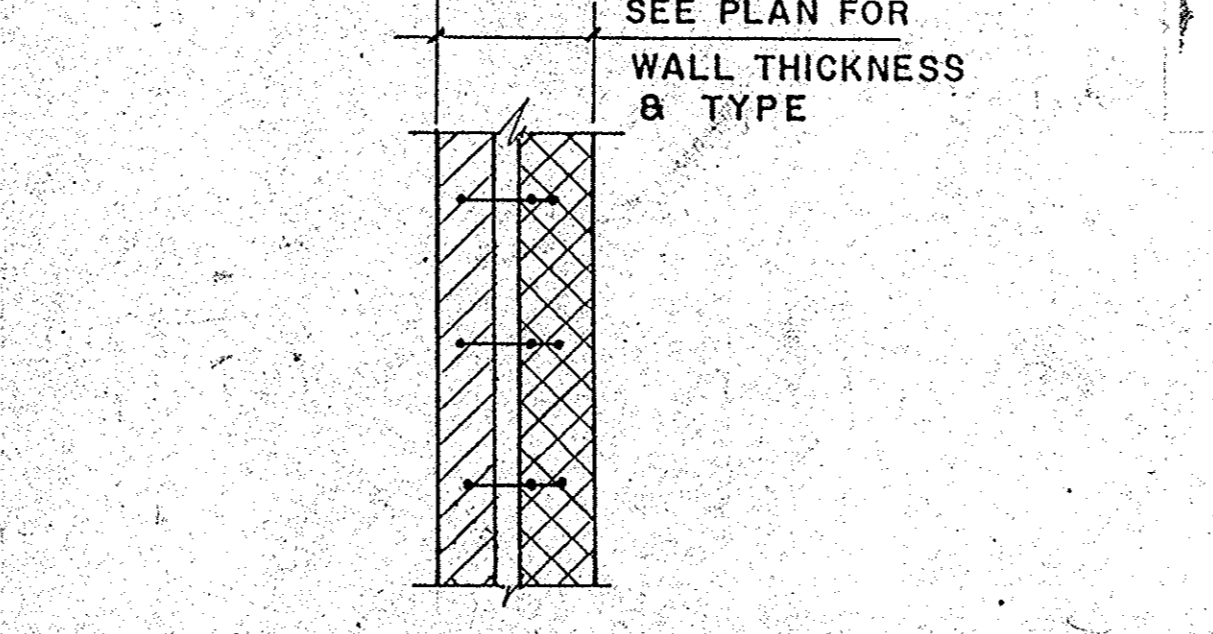
**TYPICAL CONSTRUCTION JOINT @ SLAB ON GROUND**



**TYPICAL MASONRY WALL FOOTING**

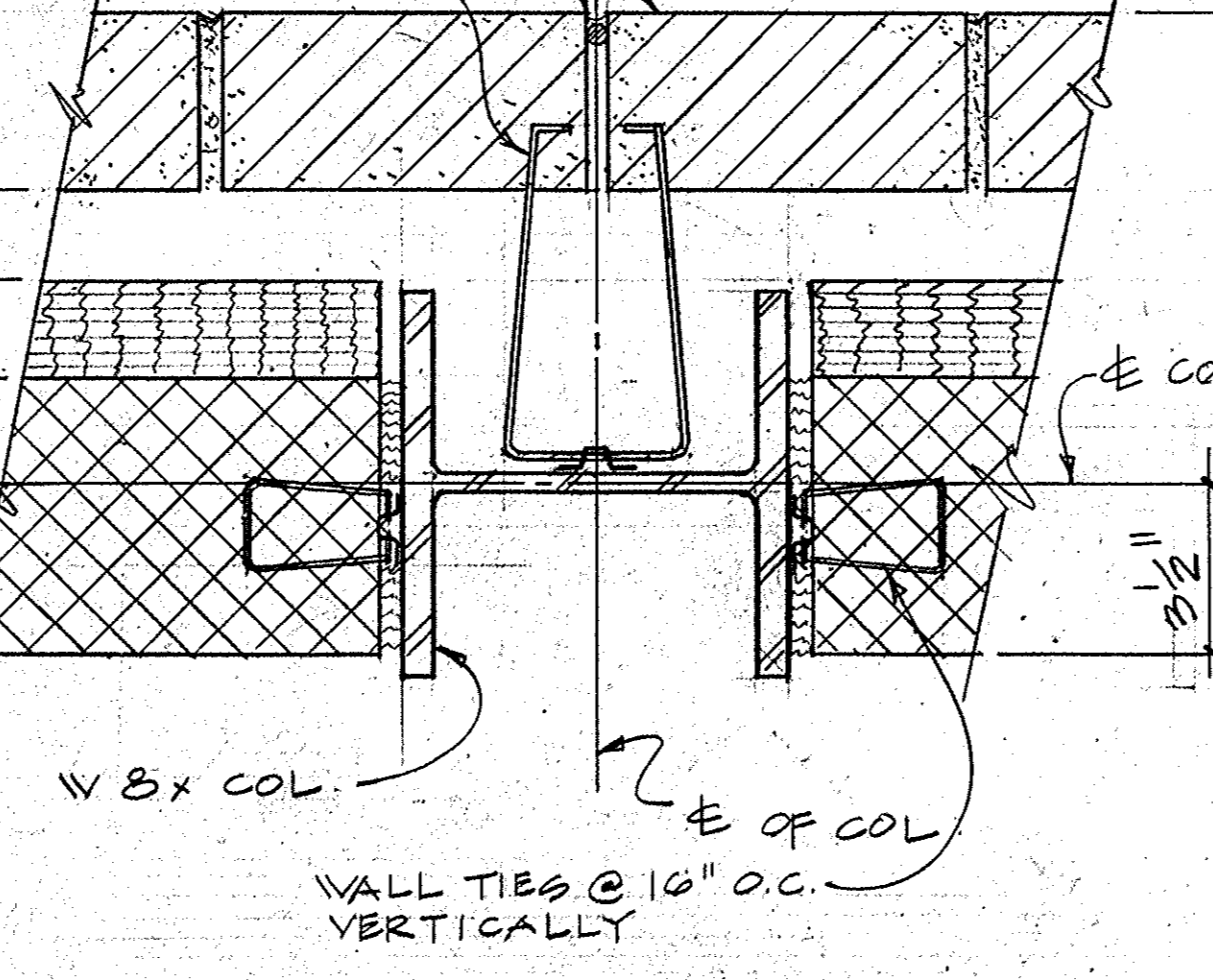


**TYPICAL STEP FOOTING**

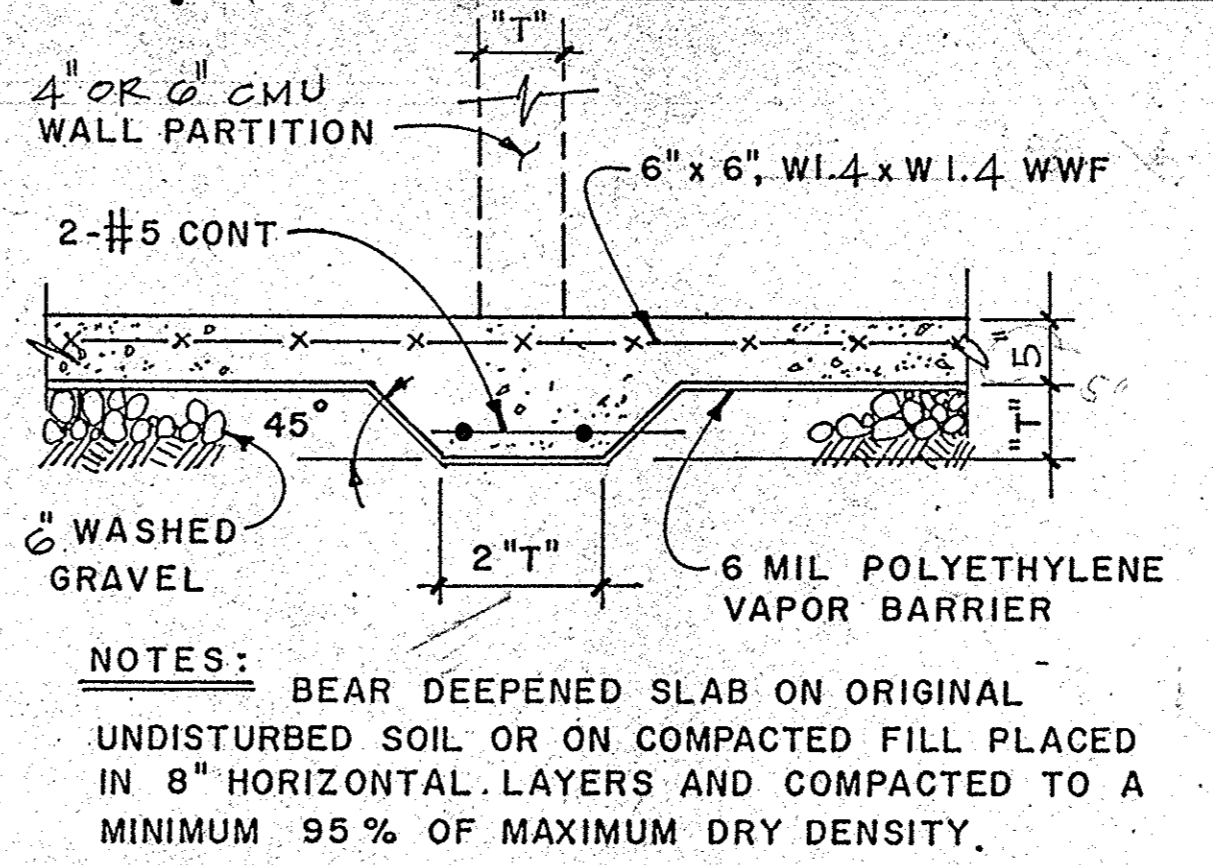


- 1.) BUILDING WALLS - STANDARD TRUSS TYPE DUR-O-WALL EVERY 2ND BLOCK COURSE.
- 2.) PARAPET WALL - HEAVY-DUTY TRUSS TYPE DUR-O-WALL EVERY COURSE.
- 3.) PRE-FABRICATED CORNER & TEE SECTION SHALL BE USED WHERE APPLICABLE.

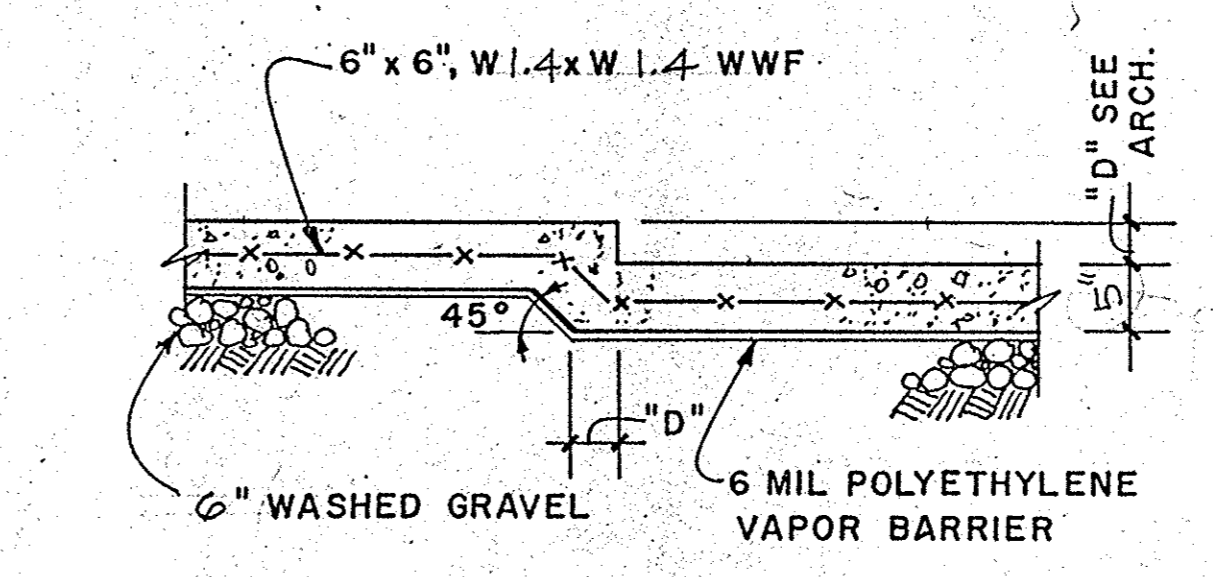
**TYPICAL WALL REINFORCING**



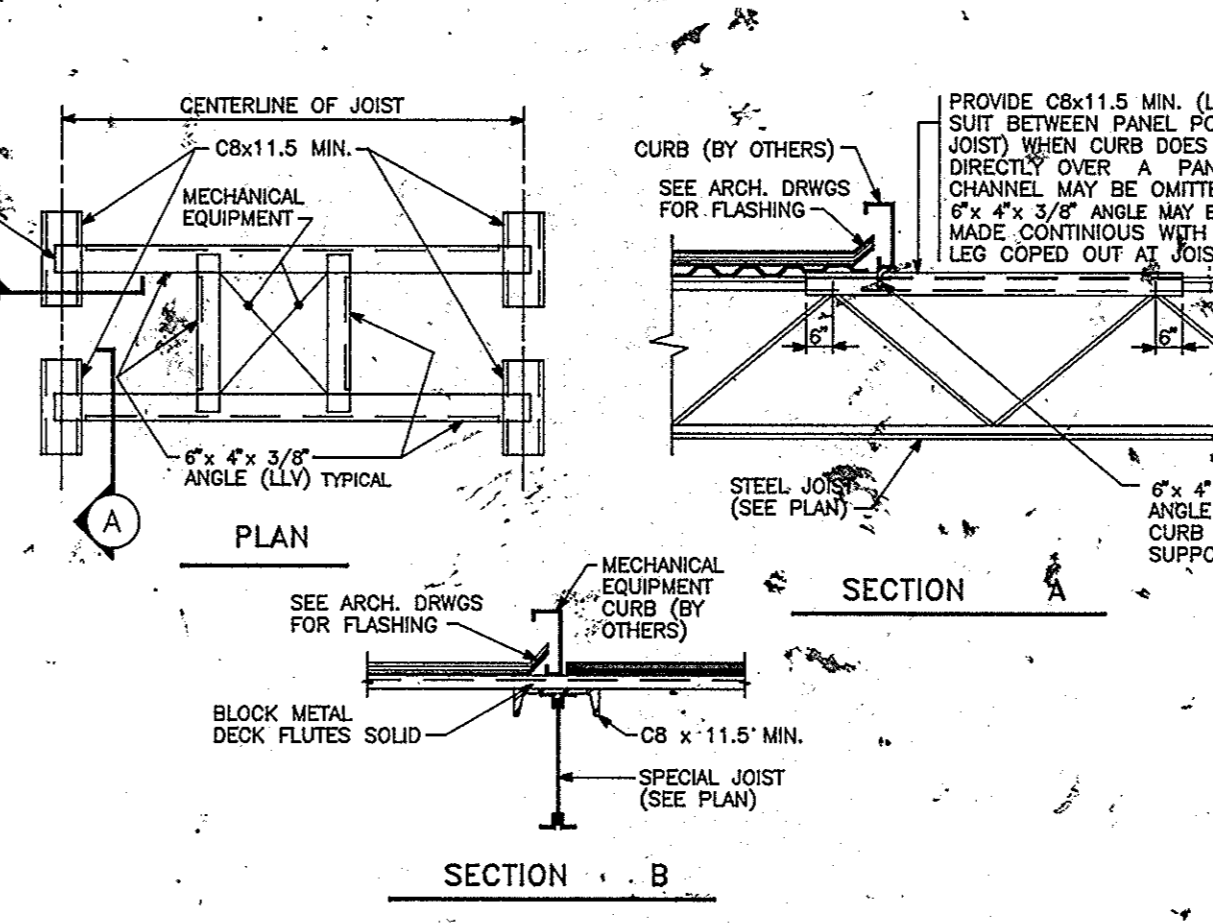
**TYPICAL EXTERIOR WALL PLAN DETAIL**



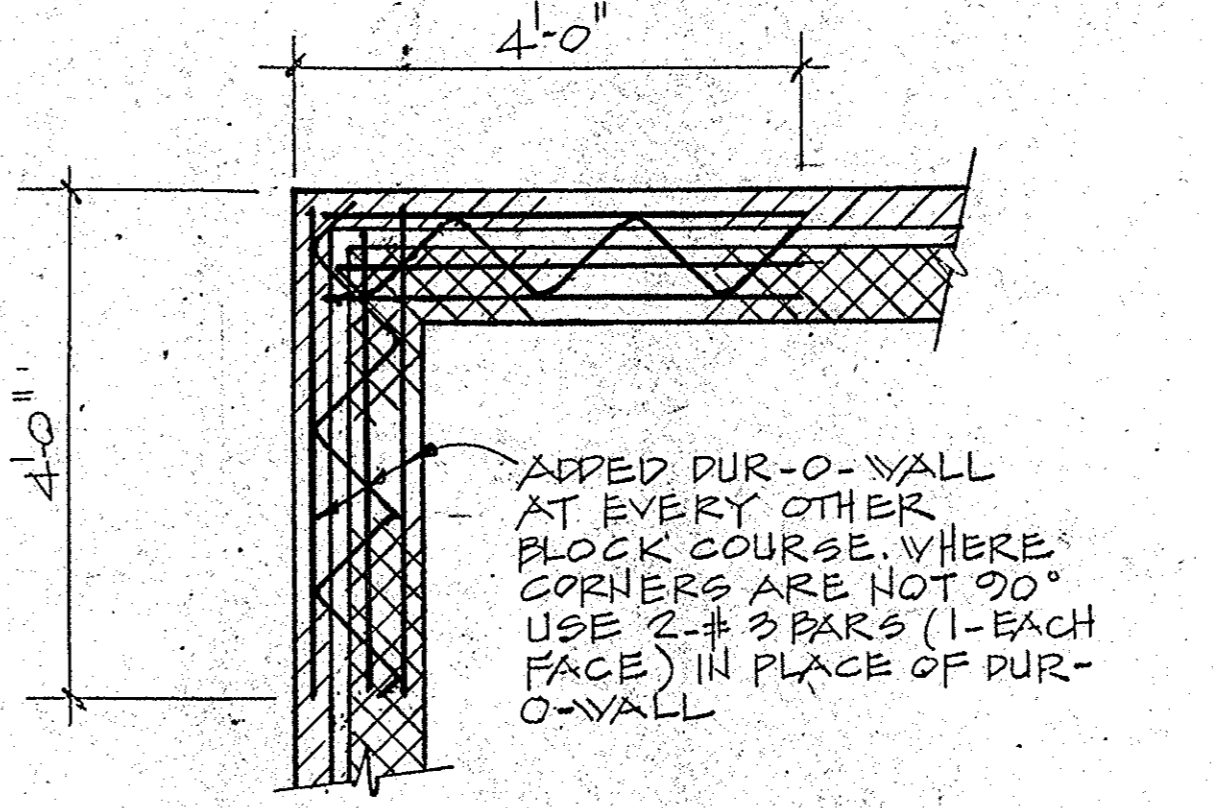
**TYPICAL DEEPEDED SLAB FOR NON-BEARING MASONRY WALLS**



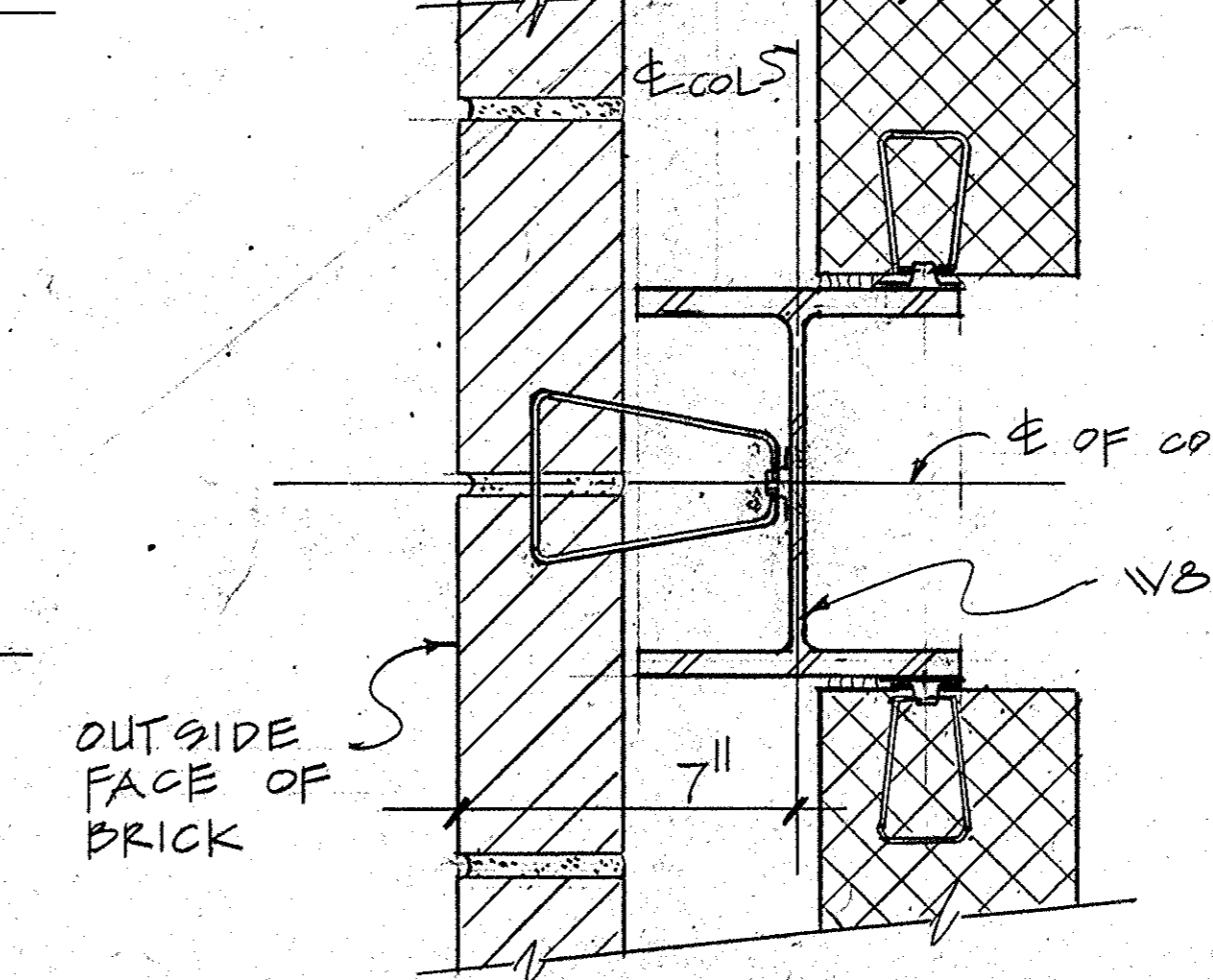
**TYPICAL DEPRESSED SLAB ON GROUND**



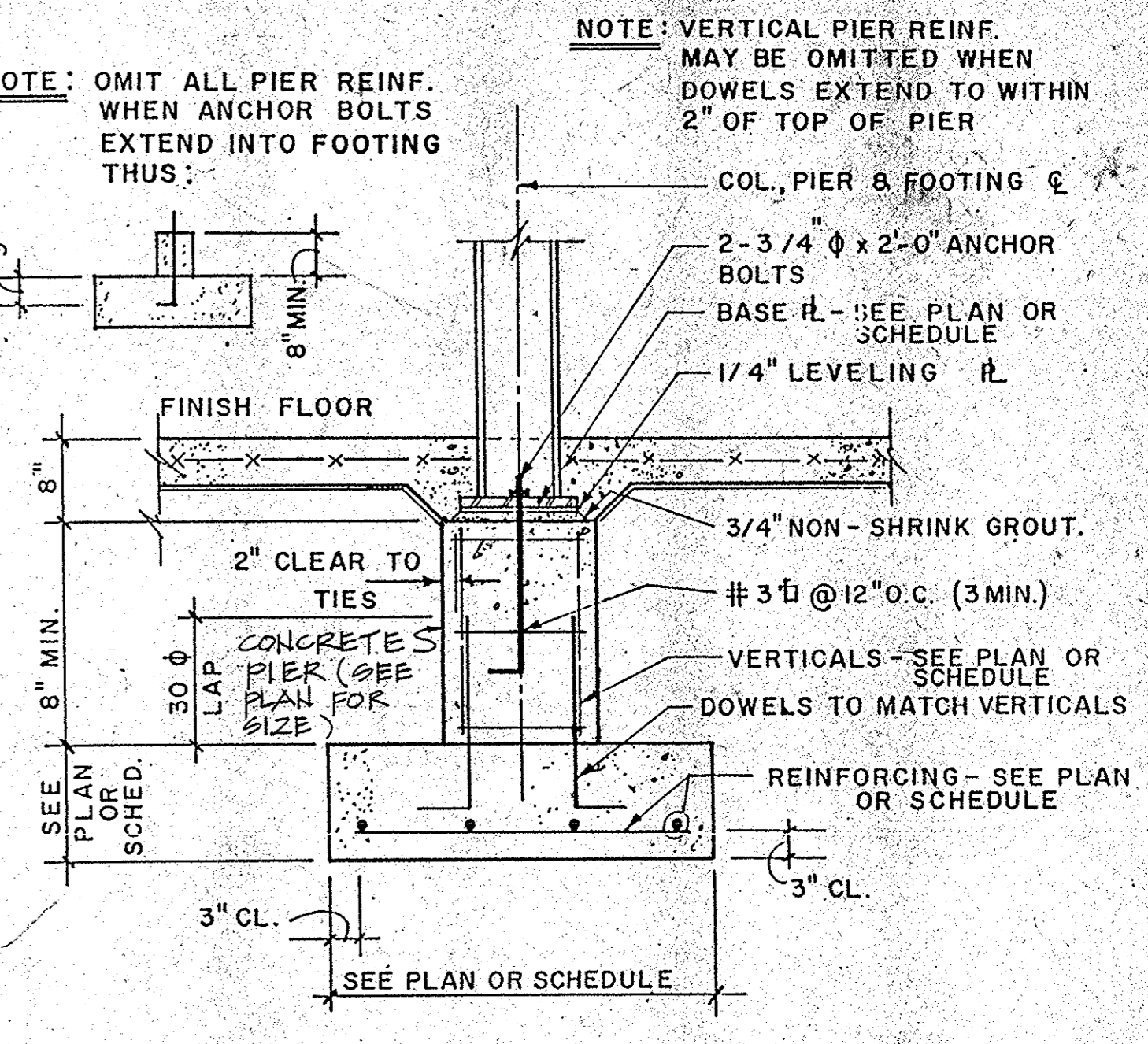
**TYPICAL CURB MOUNTED EQUIPMENT SUPPORT DETAIL**



**TYPICAL EXTERIOR WALL ADDED CORNER REINFORCING**

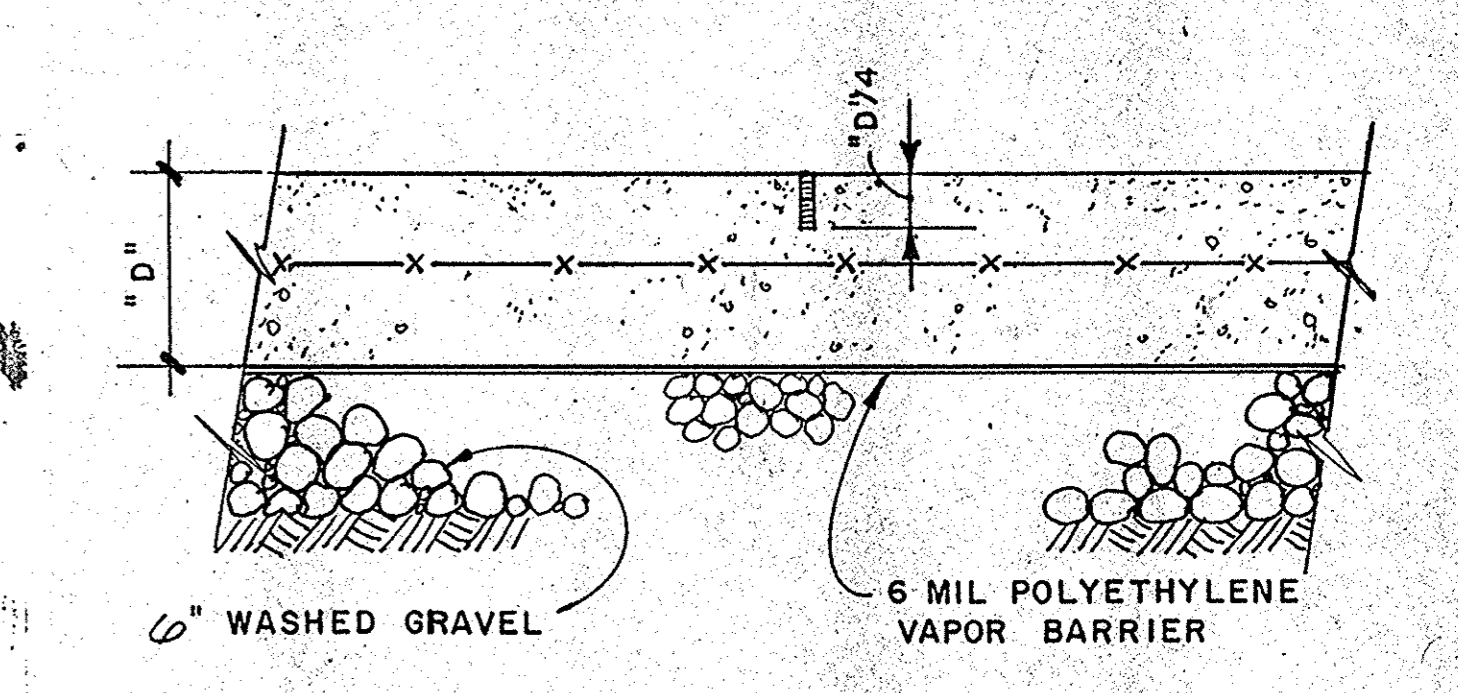


**COLUMN LOCATION @ TOWERS PLAN DETAIL**

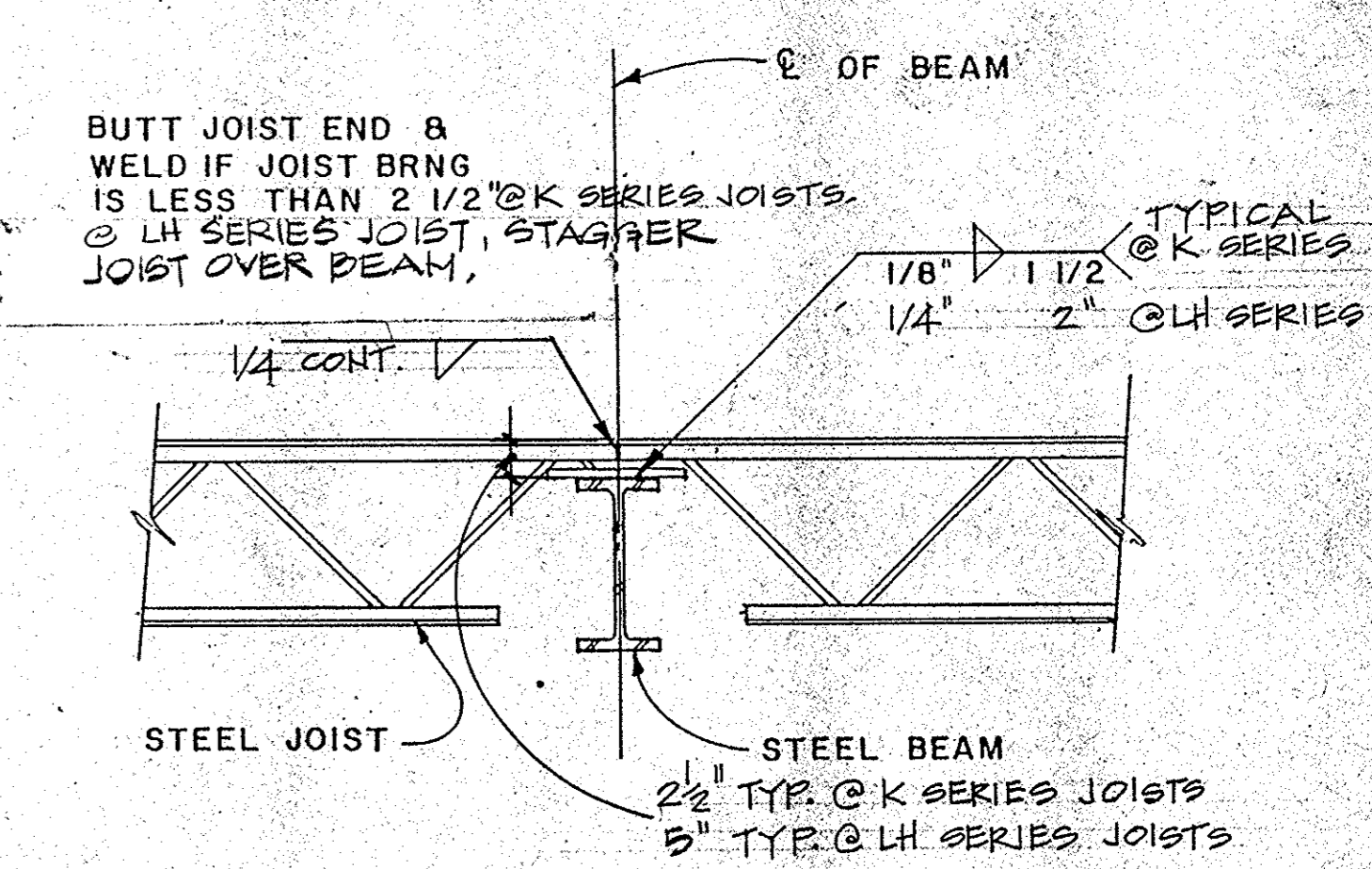


**TYPICAL FOOTING & STEEL COLUMN**

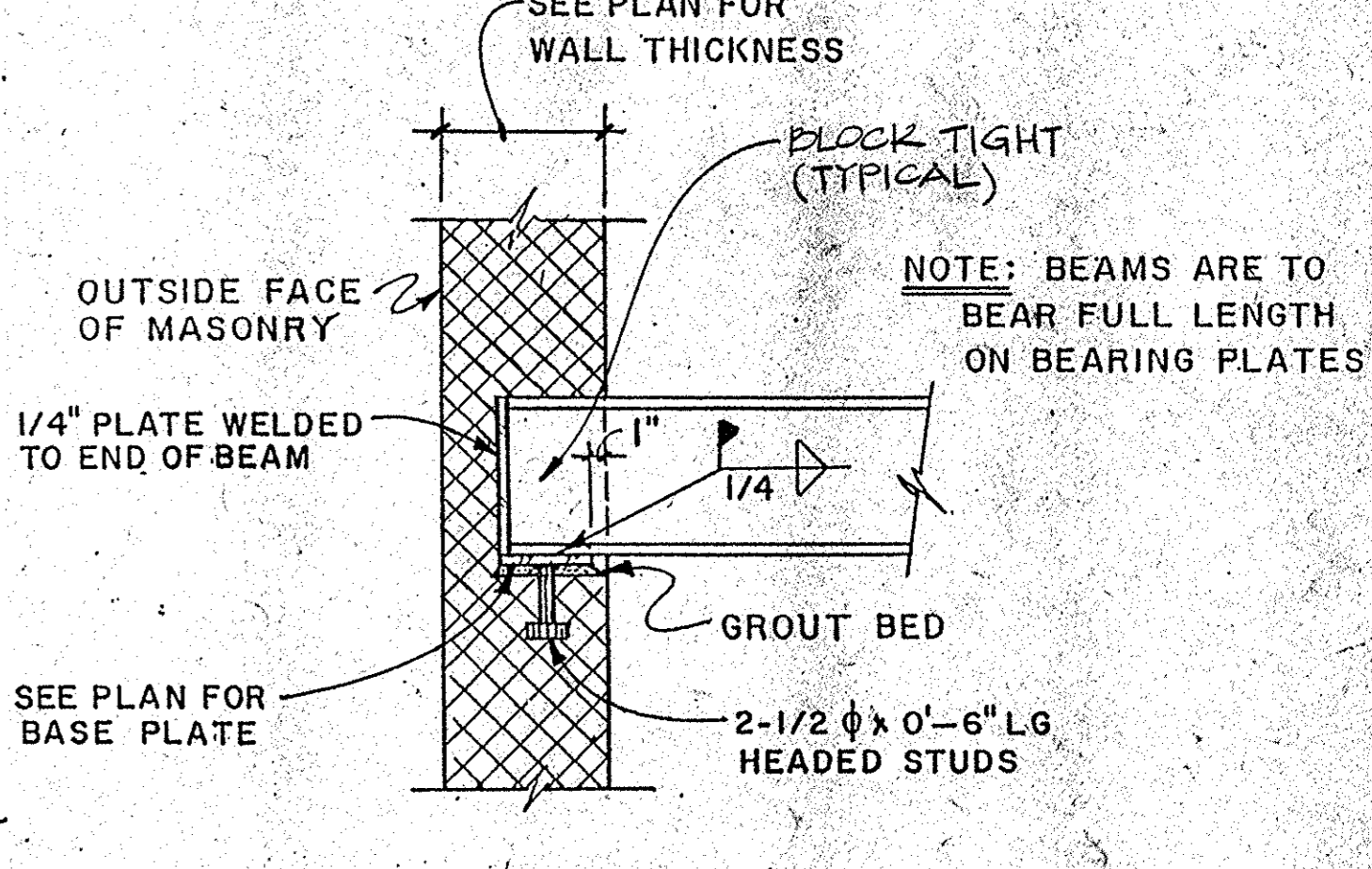
NOTE: SAW CUT CONTROL JOINTS AS SOON AS CONCRETE IS FIRM ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE; AND BEFORE RANDOM SHRINKAGE CRACKS CAN FORM IN THE CONCRETE SLAB



**TYPICAL SAW-CUT CONTROL JOINT**



**JOIST BEARING ON STEEL BEAM**



**TYPICAL BEAM BEARING ON BASE PLATE**

**ALLISON, MCCORMAC & NICKOLAUS**  
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**STRUCTURAL NOTES, TYPICAL SECTIONS & DETAILS**

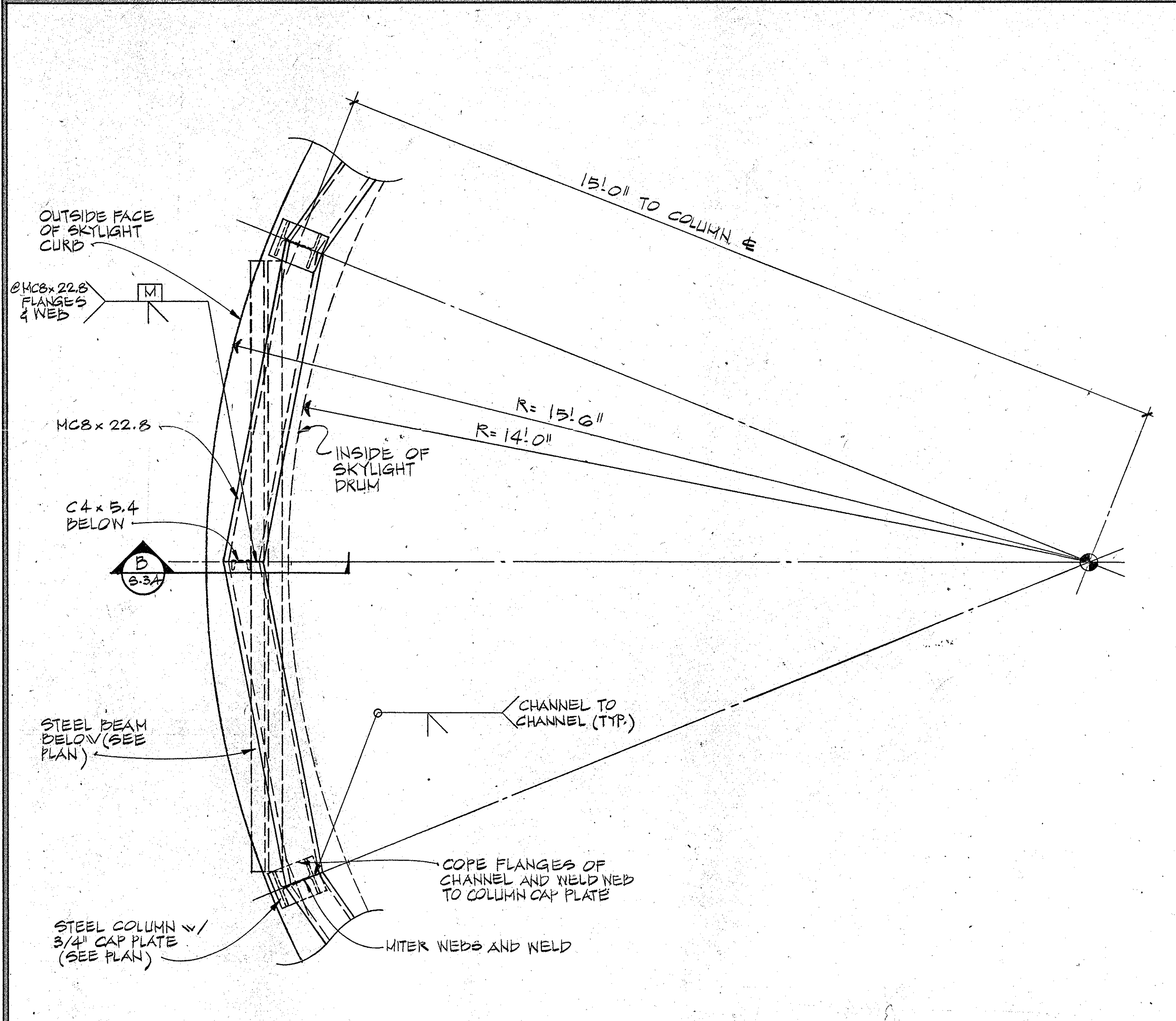
**EAST COLUMBIA LIBRARY**  
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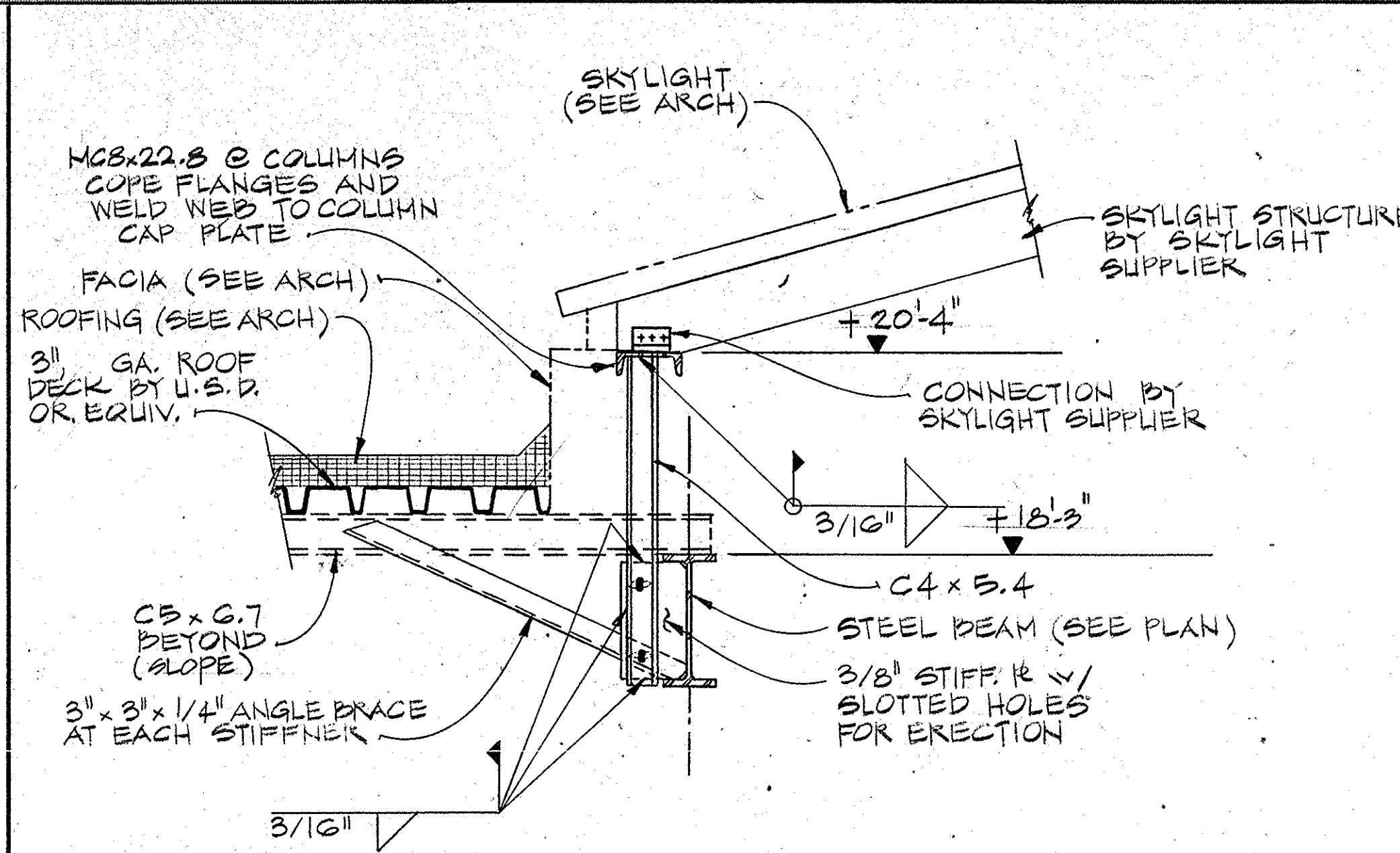
**S-3.3**

AMEN # 00050

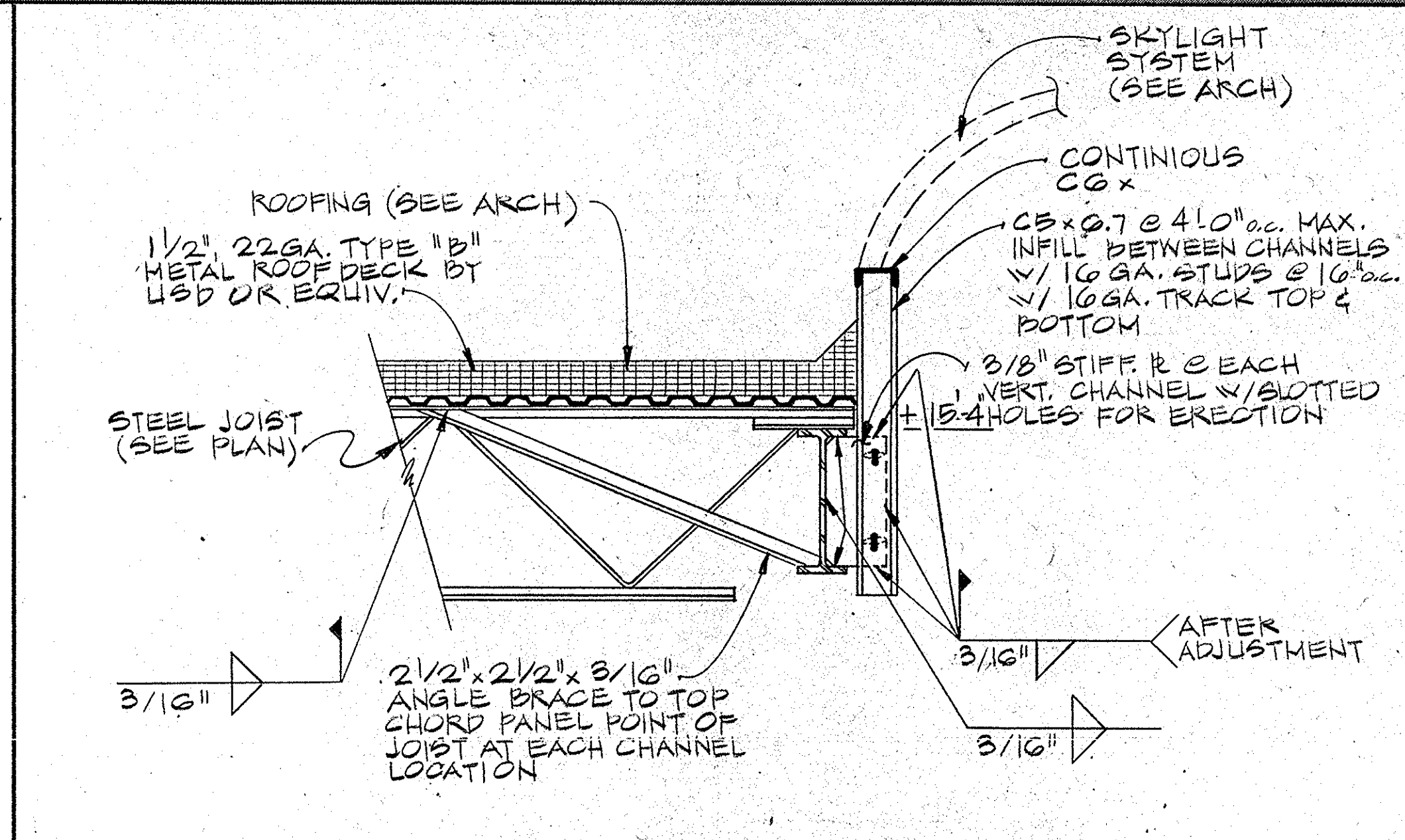




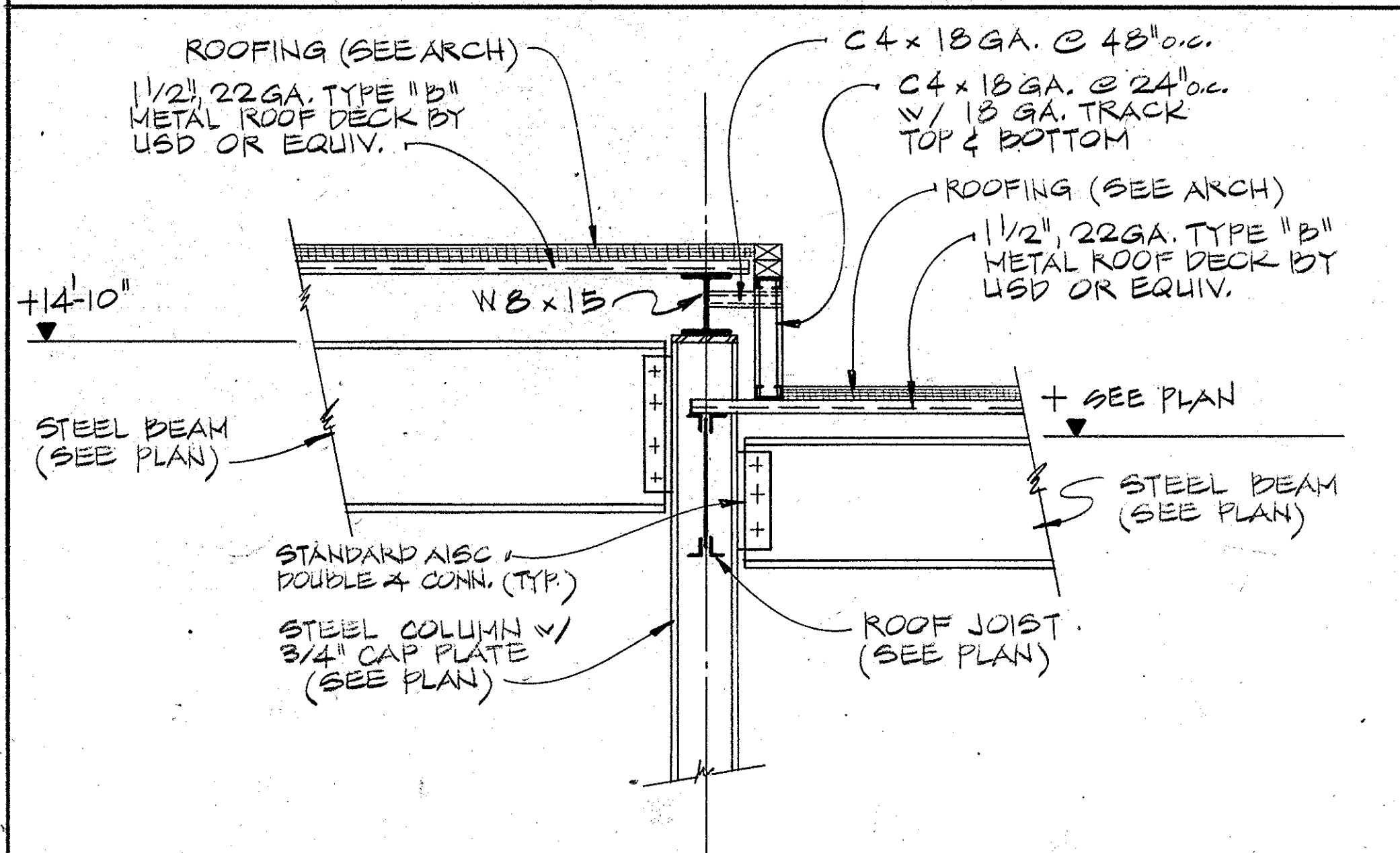
PLAN DETAIL A/S-3.4



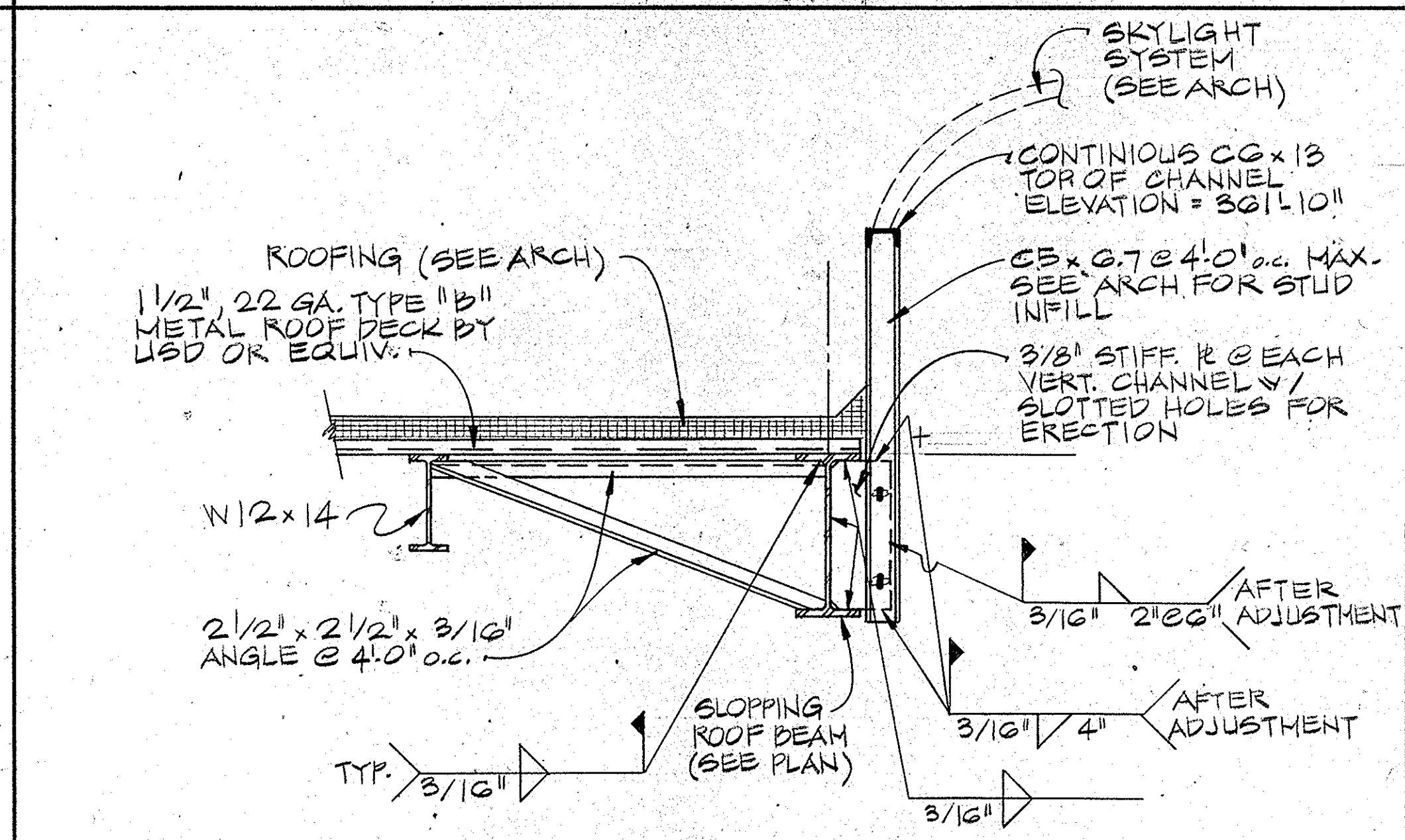
SECTION B/S-3.4



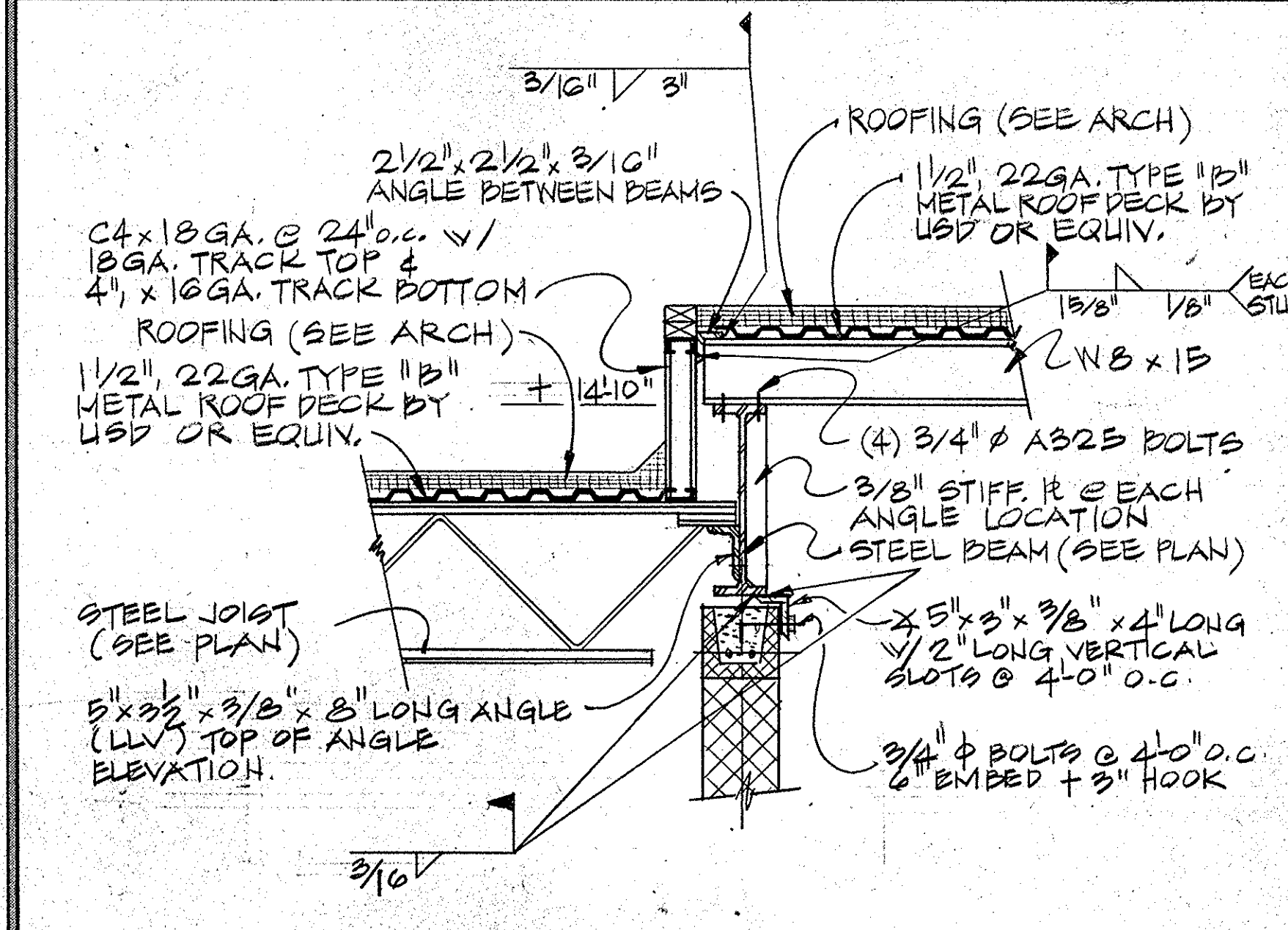
SECTION C/S-3.4



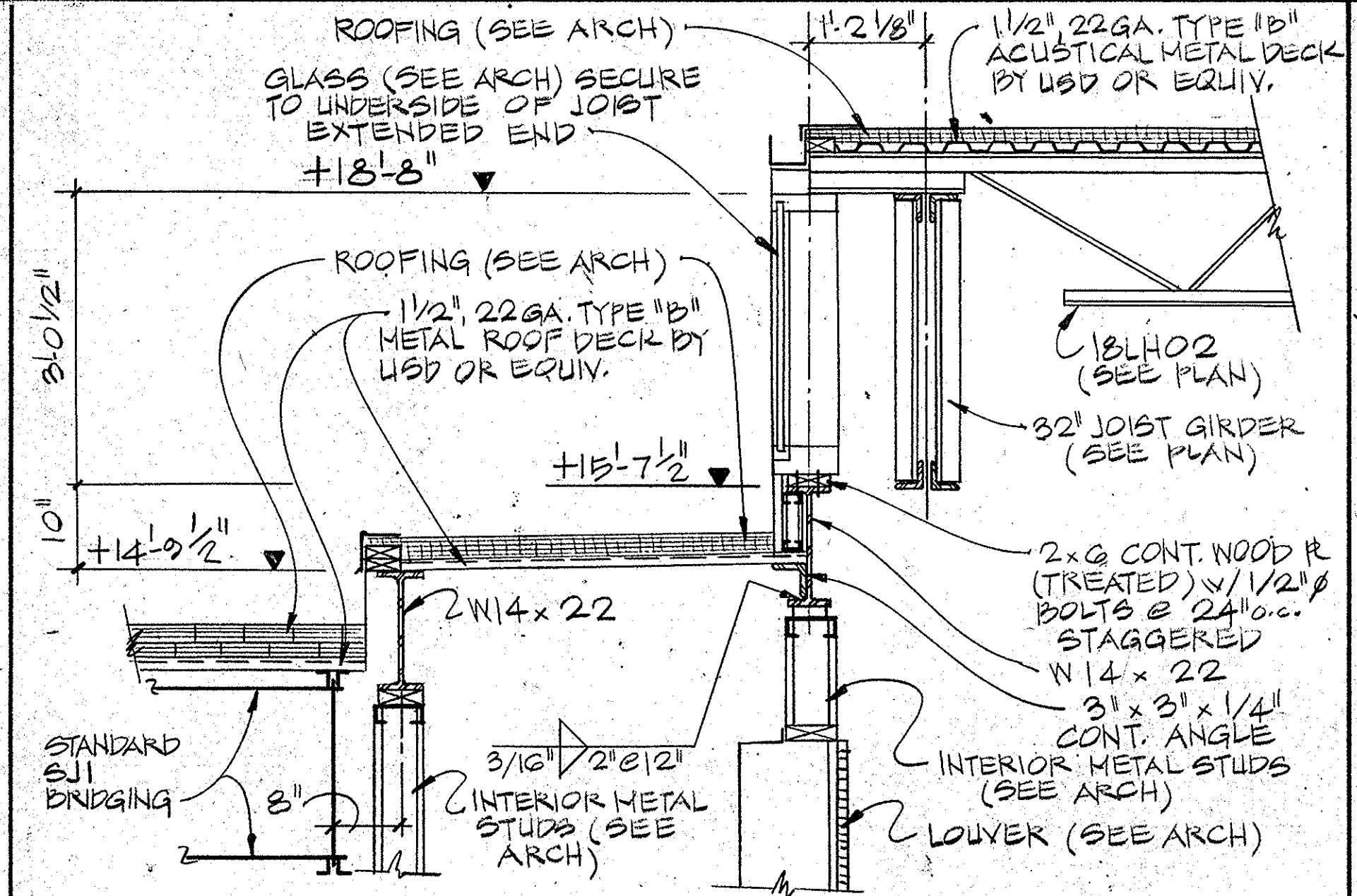
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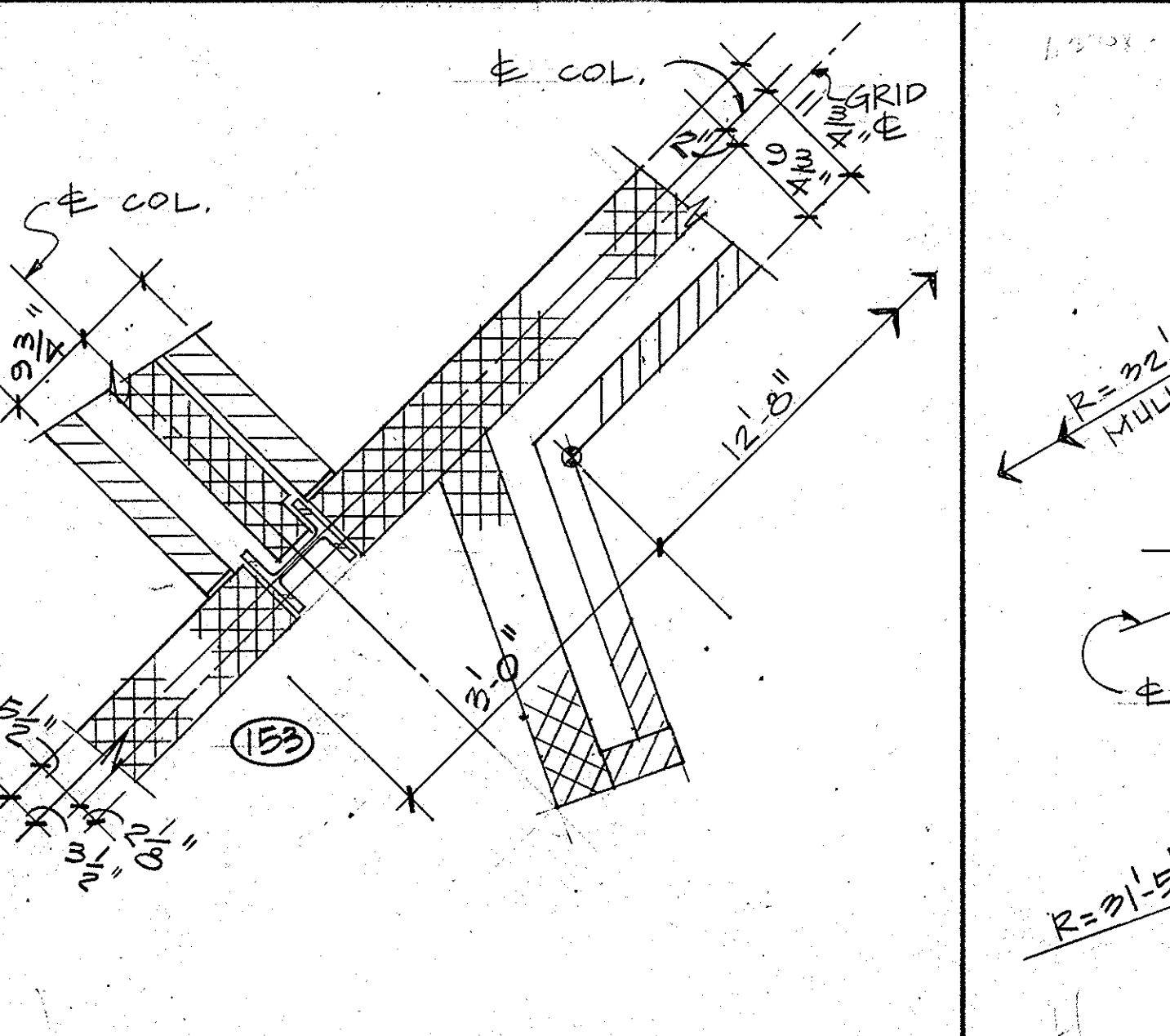
SECTION E/S-3.4



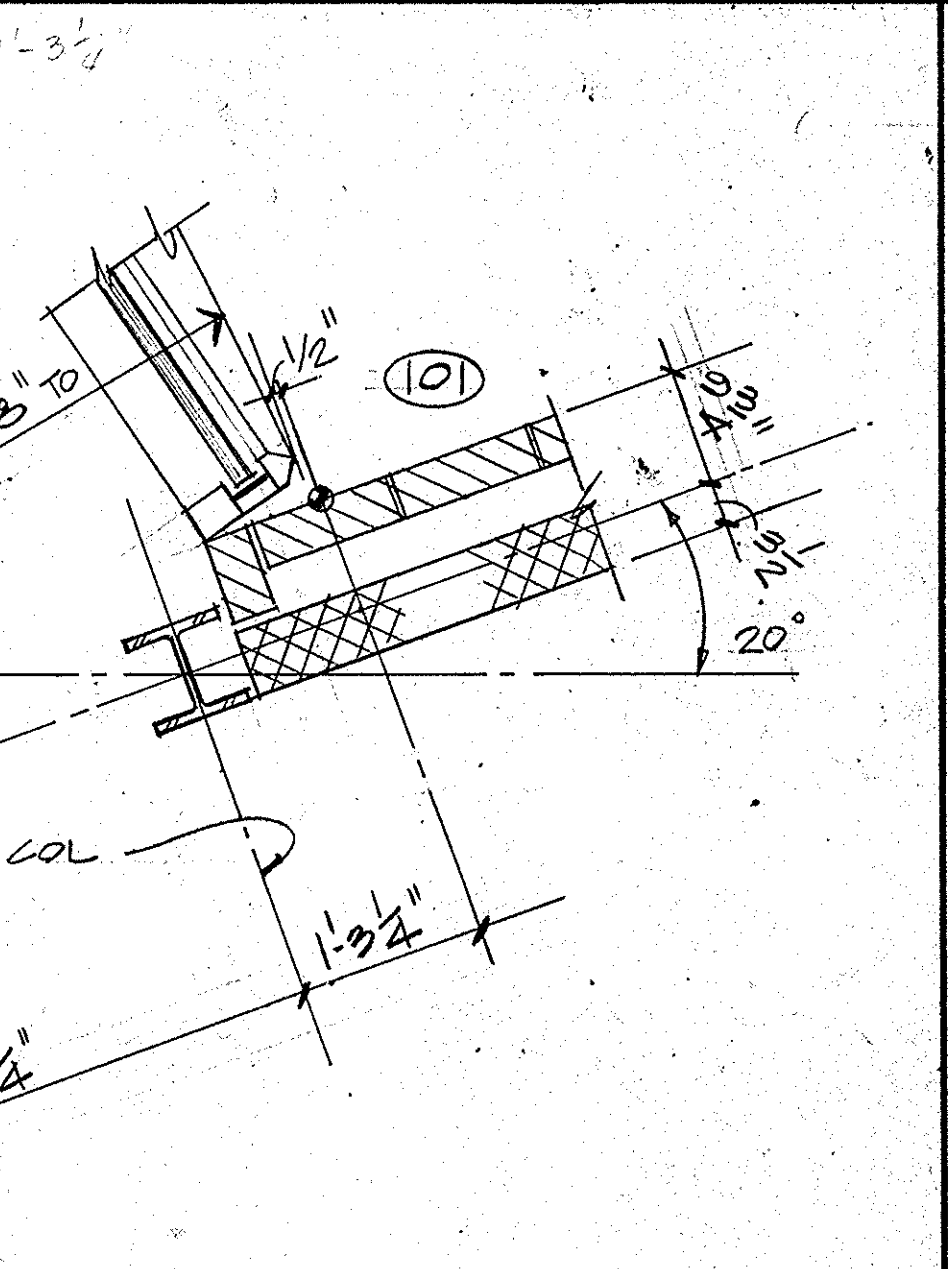
SECTION F/S-3.4



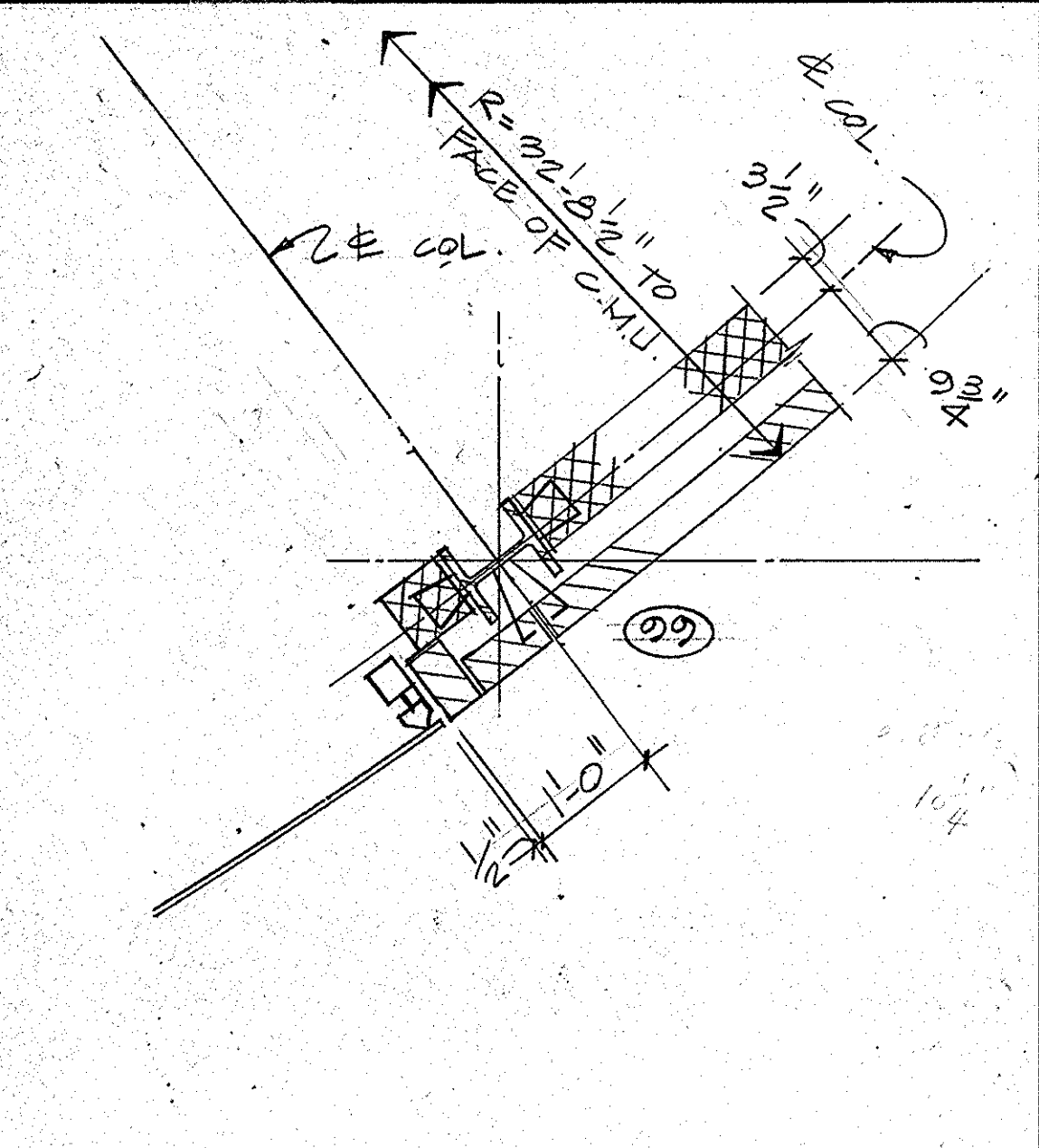
SECTION G/S-3.4



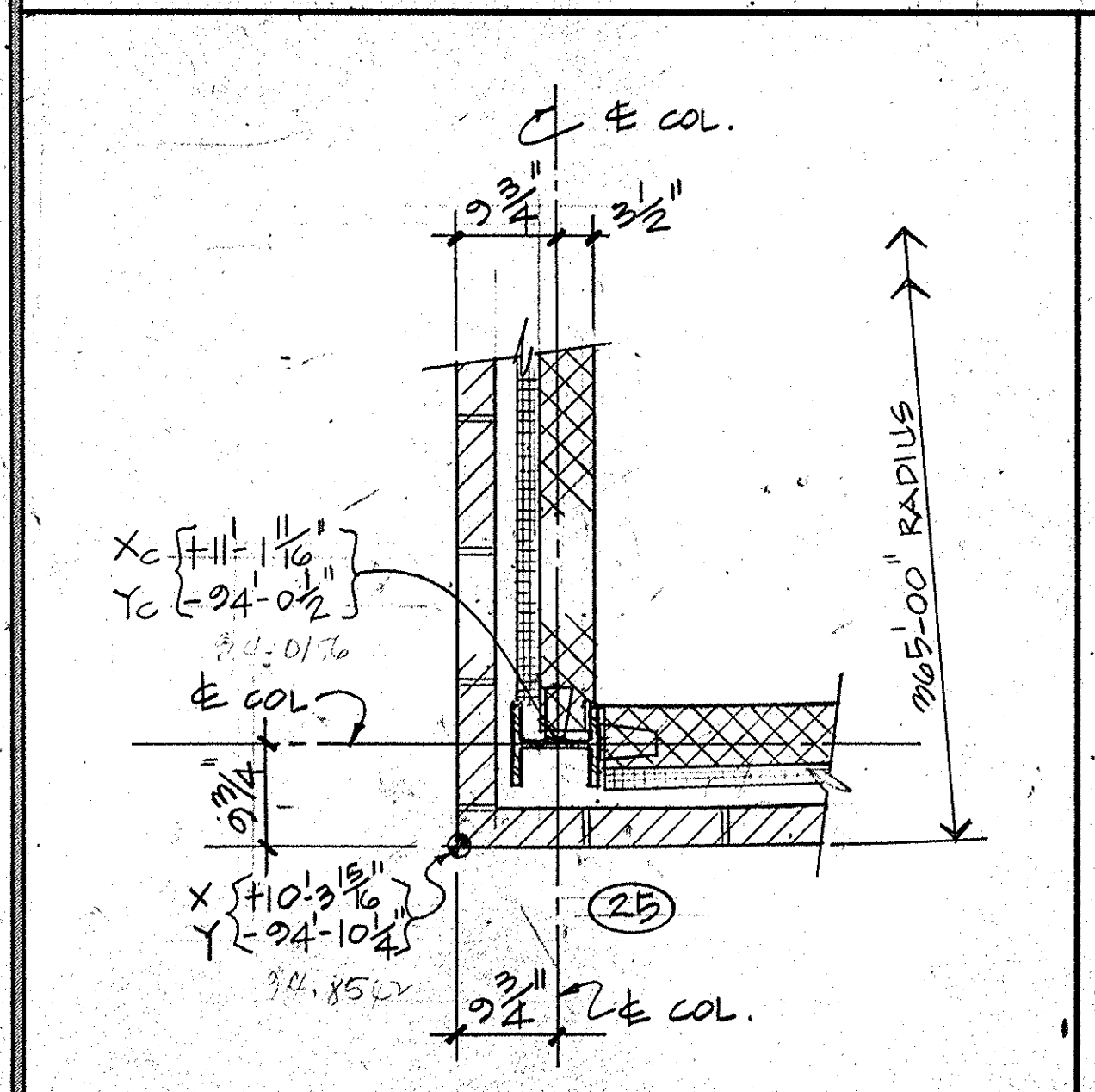
PLAN DETAIL H/S-3.4



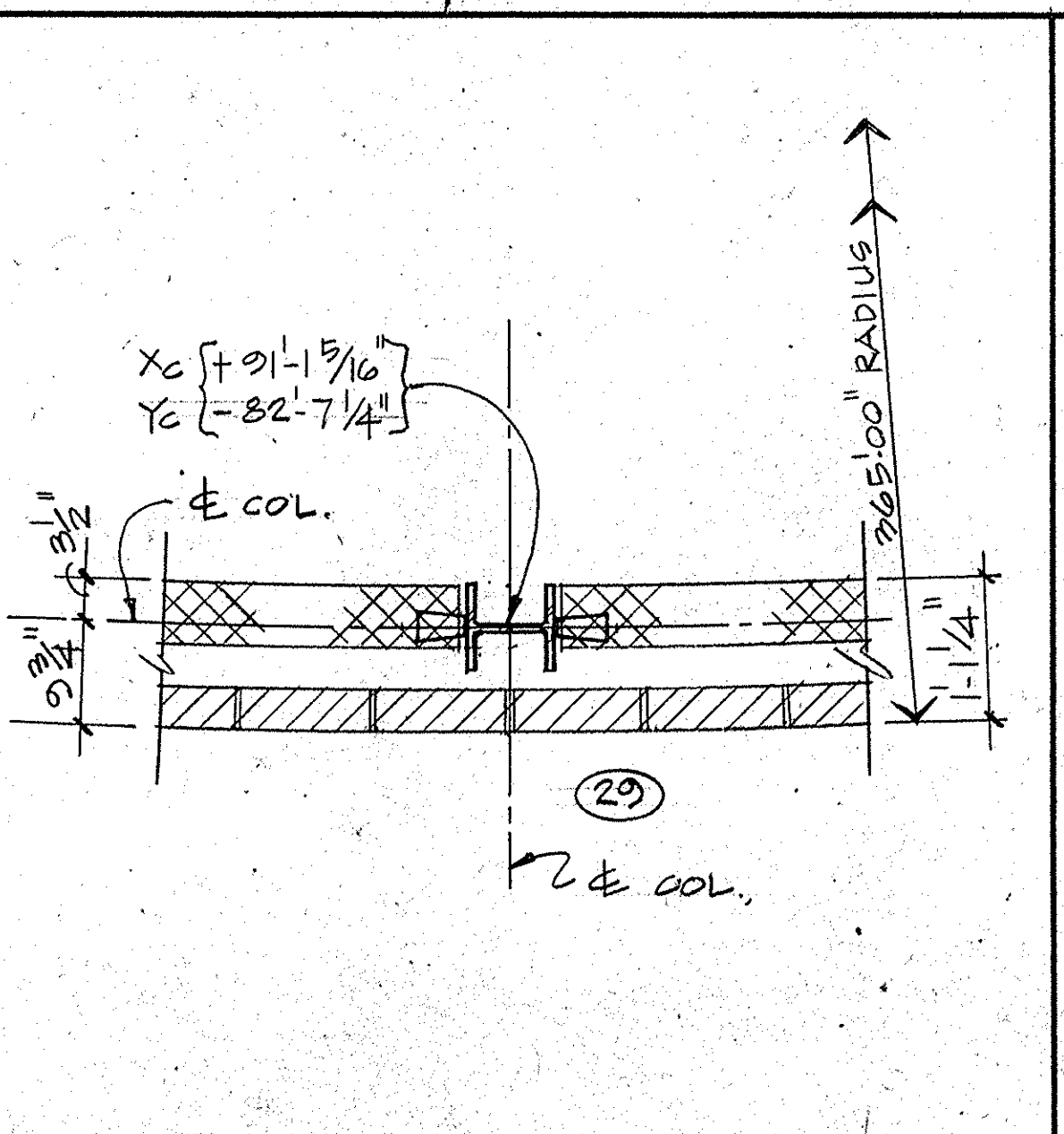
PLAN DETAIL J/S-3.4



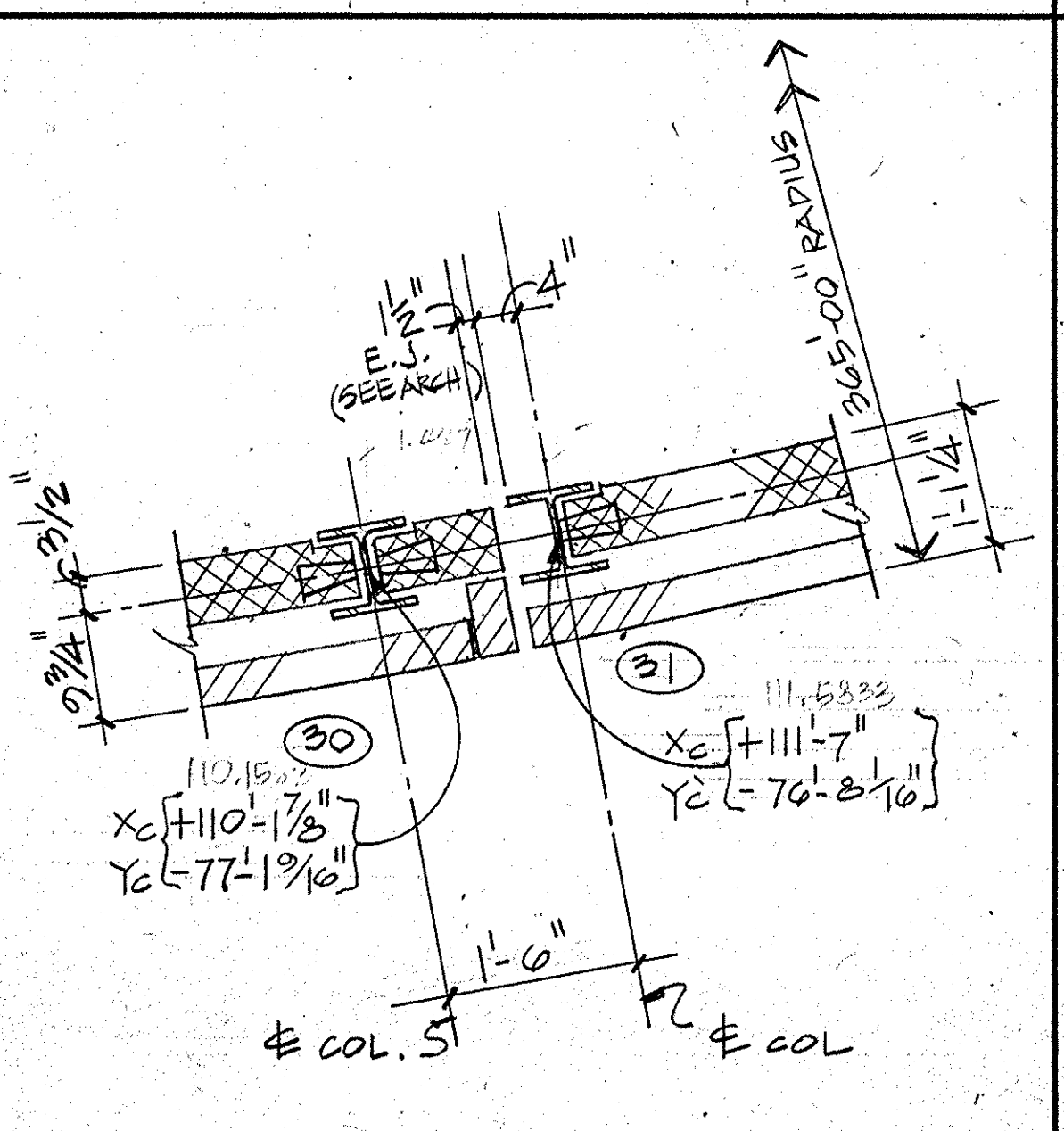
PLAN DETAIL K/S-3.4



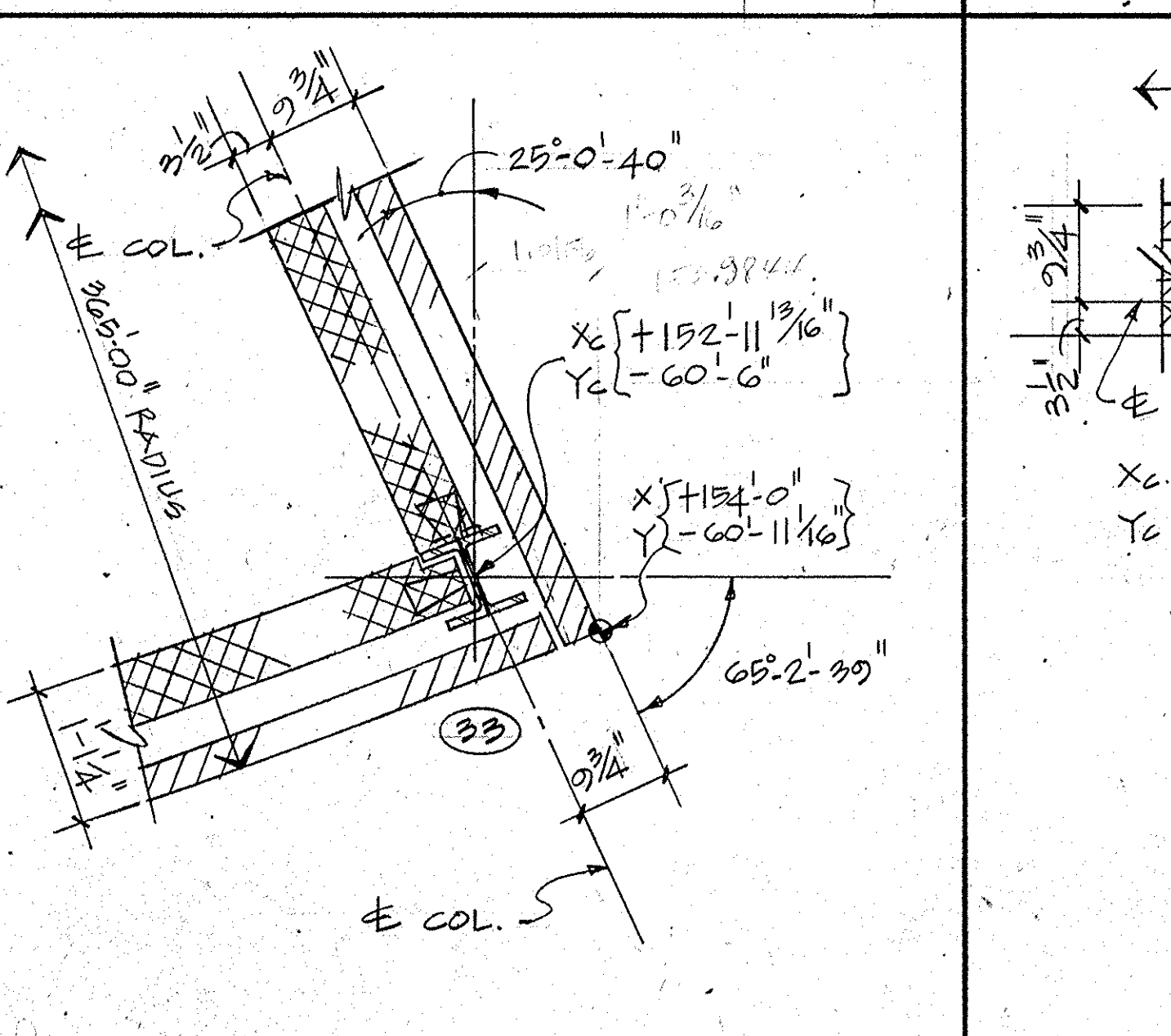
PLAN DETAIL L/S-3.4



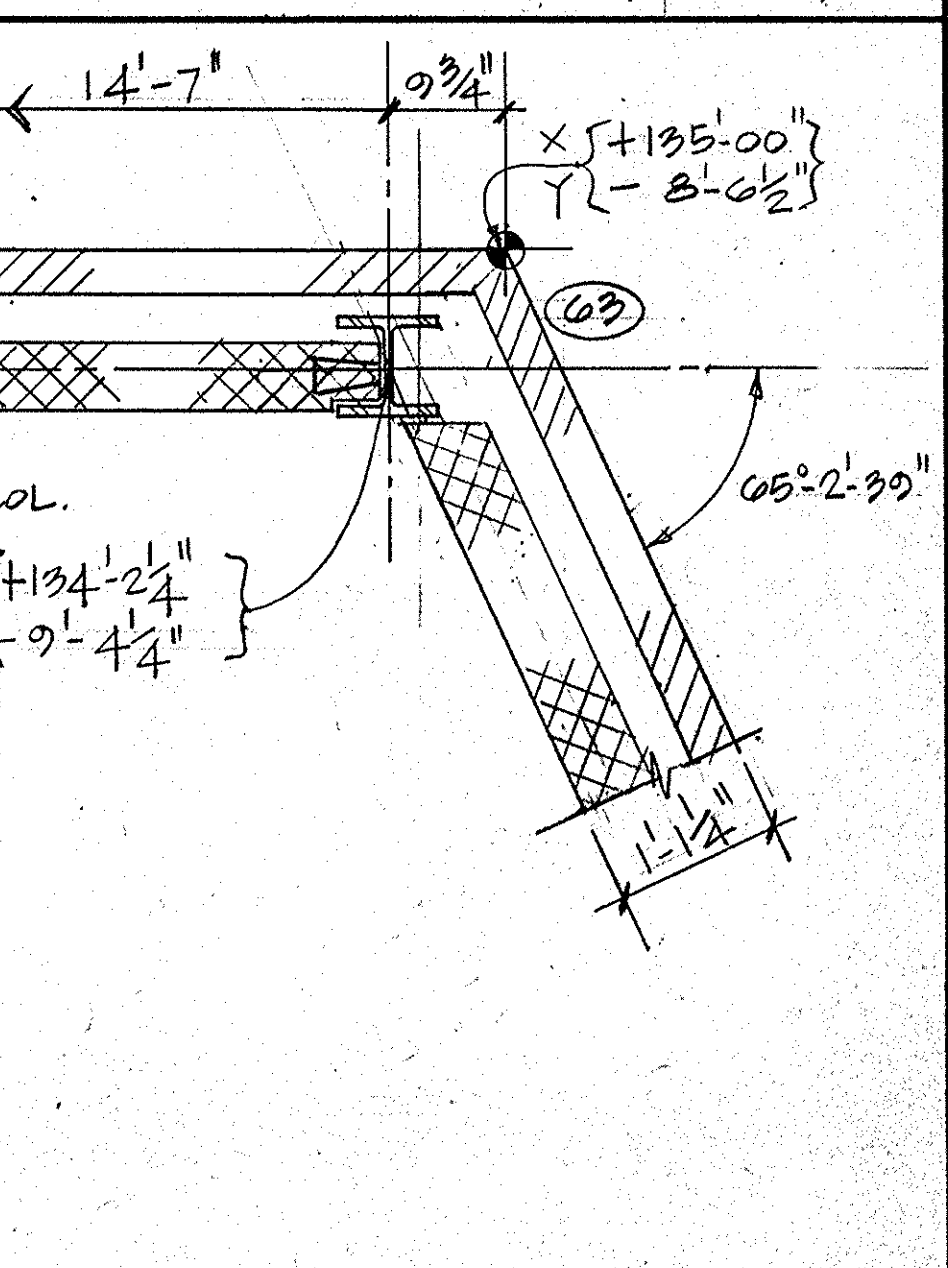
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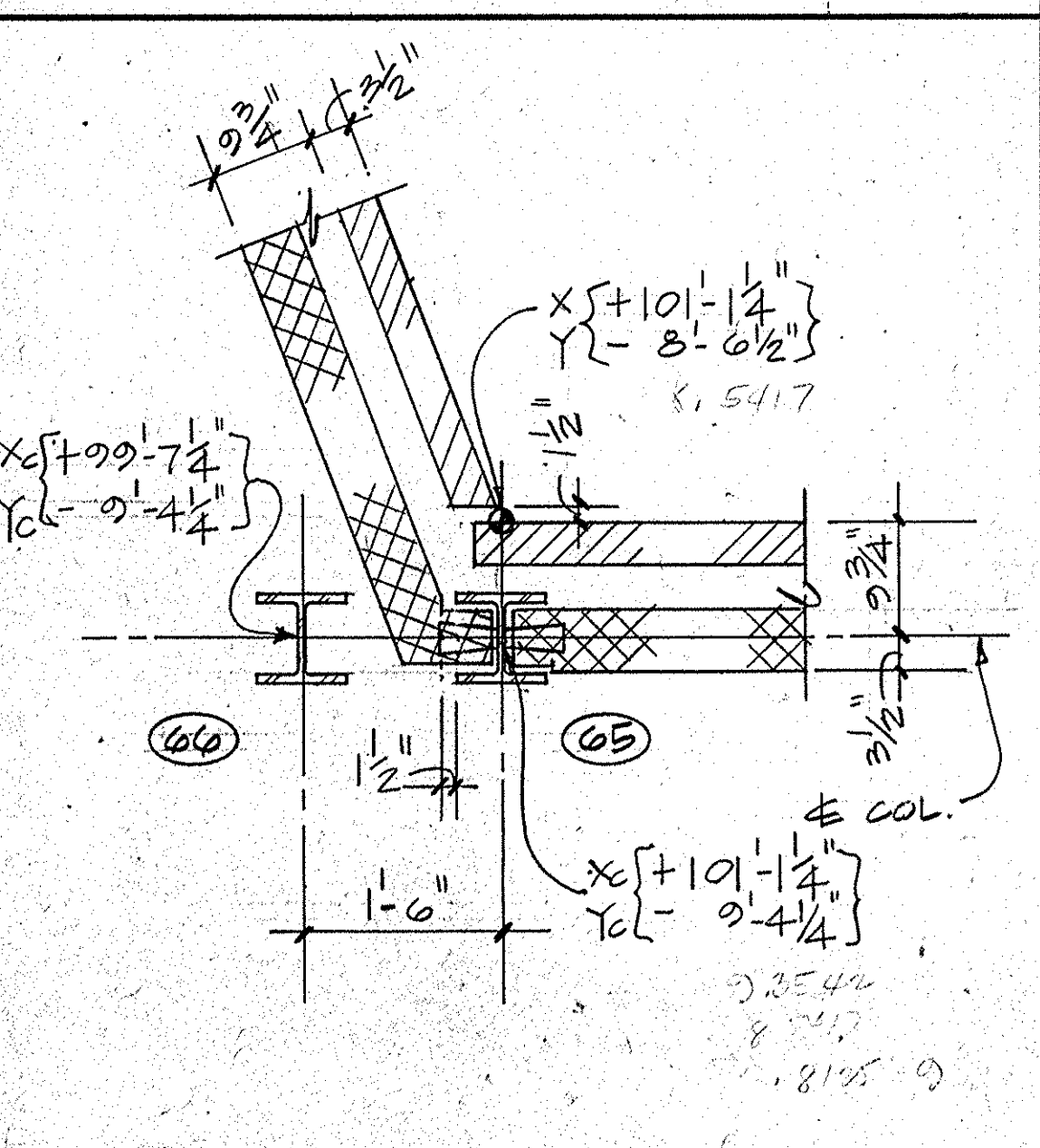
PLAN DETAIL N/S-3.4



PLAN DETAIL P/S-3.4

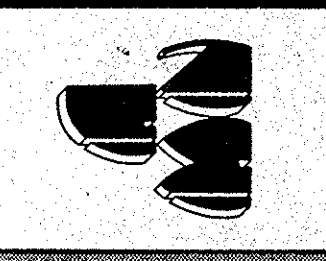


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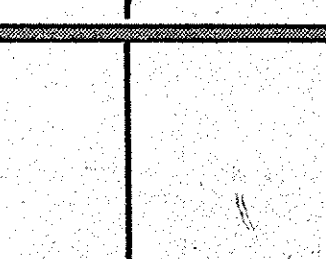


PLAN DETAIL R/S-3.4

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STRUCTURAL ENGINEERS  
7165 COLUMBIA GATEWAY DRIVE  
COLUMBIA, MARYLAND 21046  
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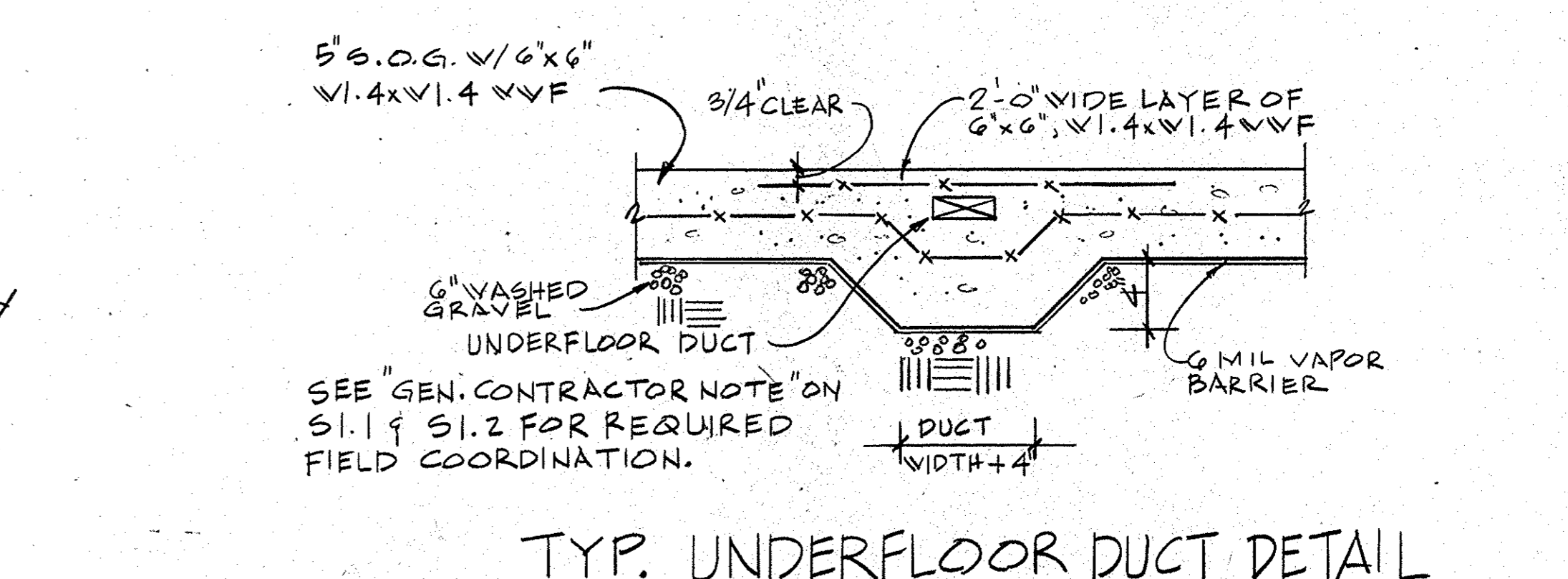
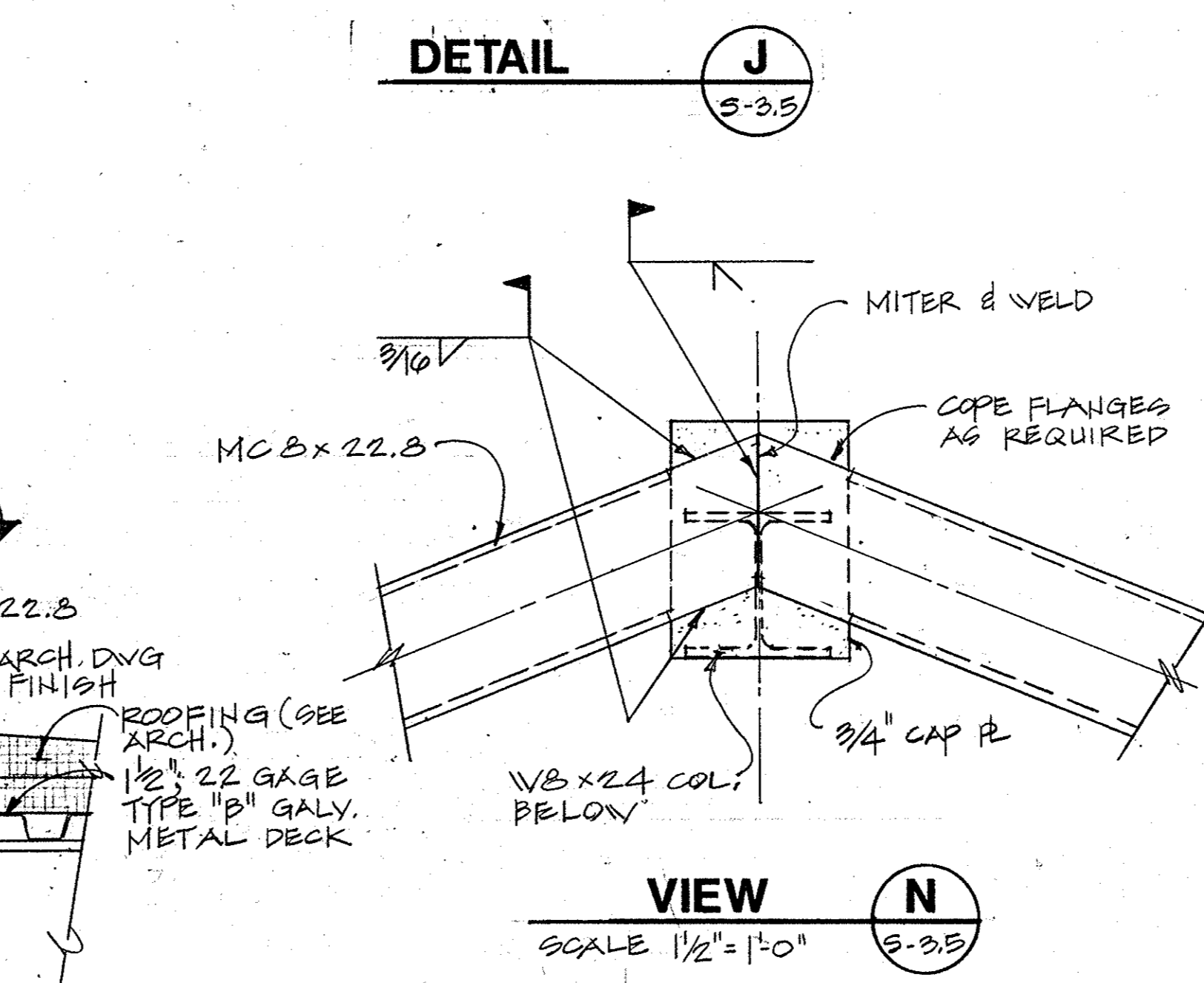
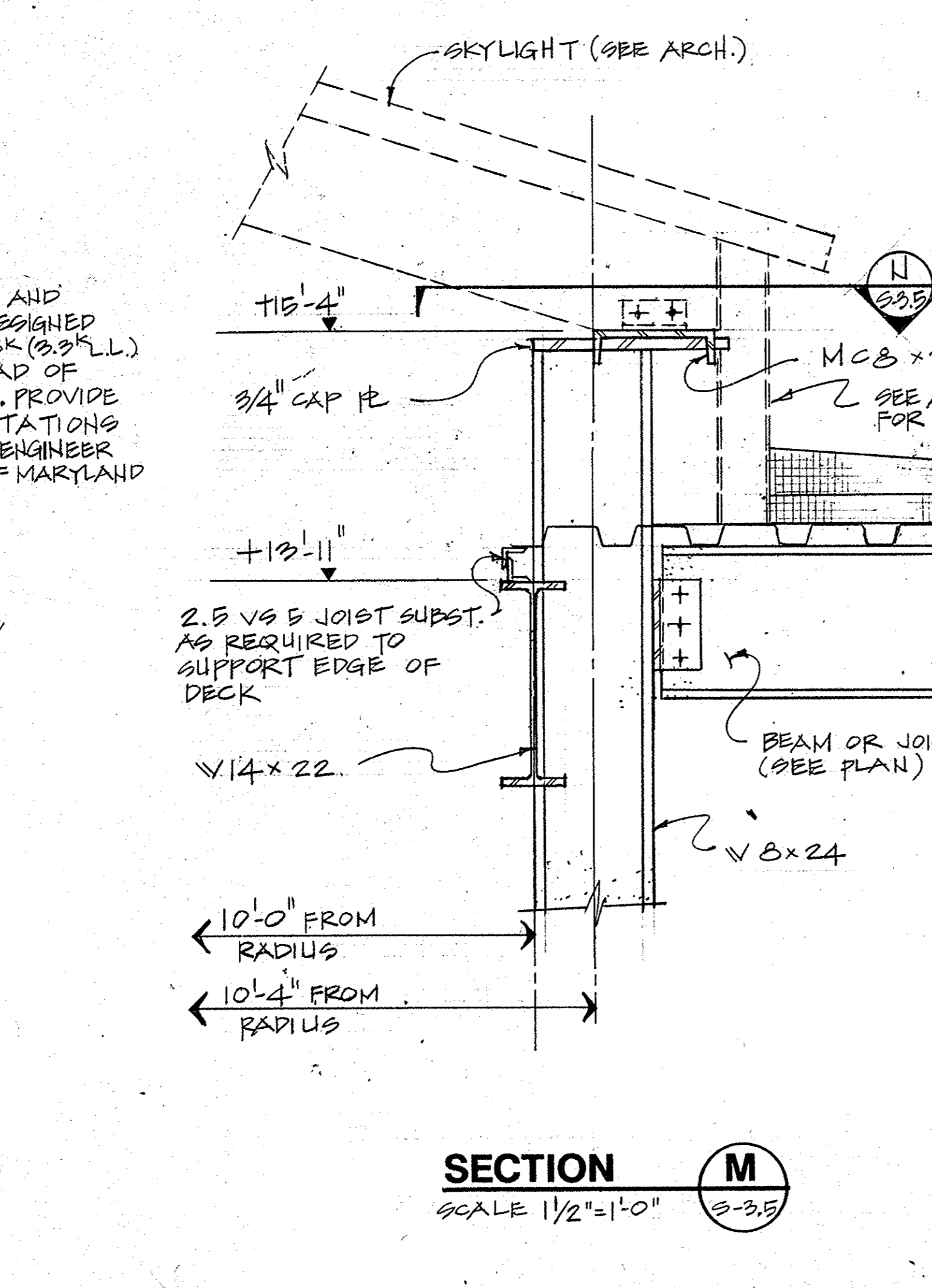
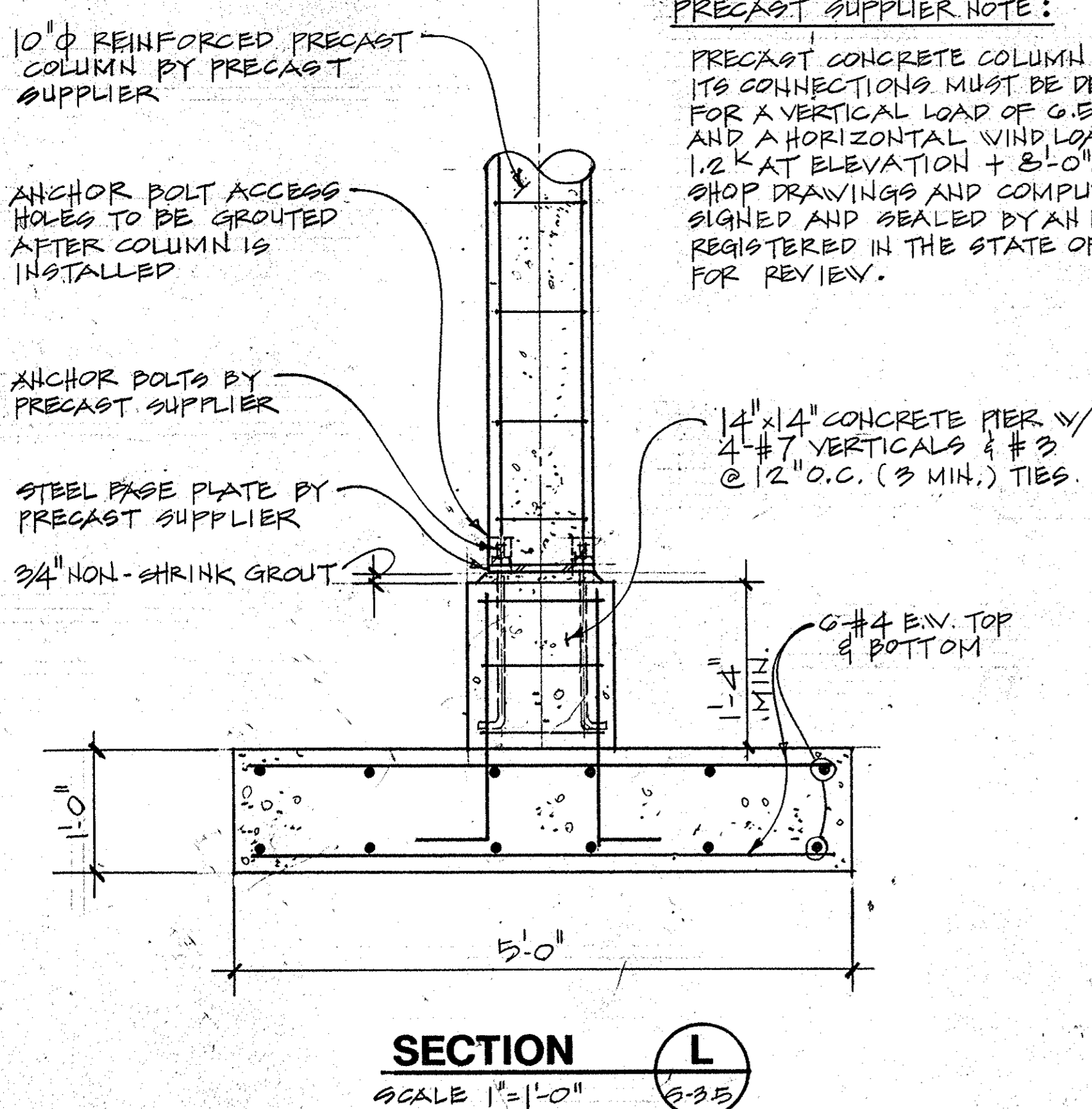
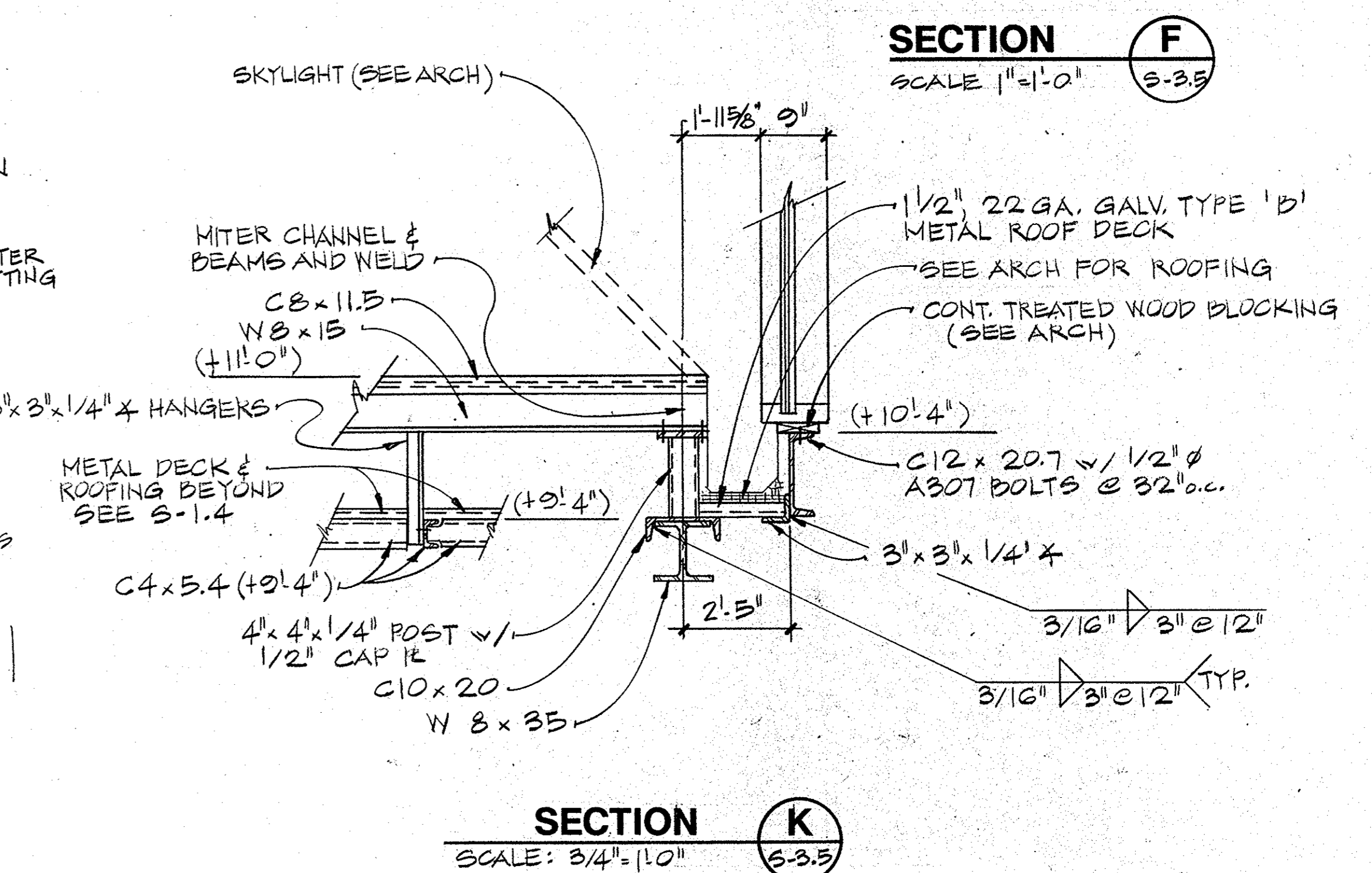
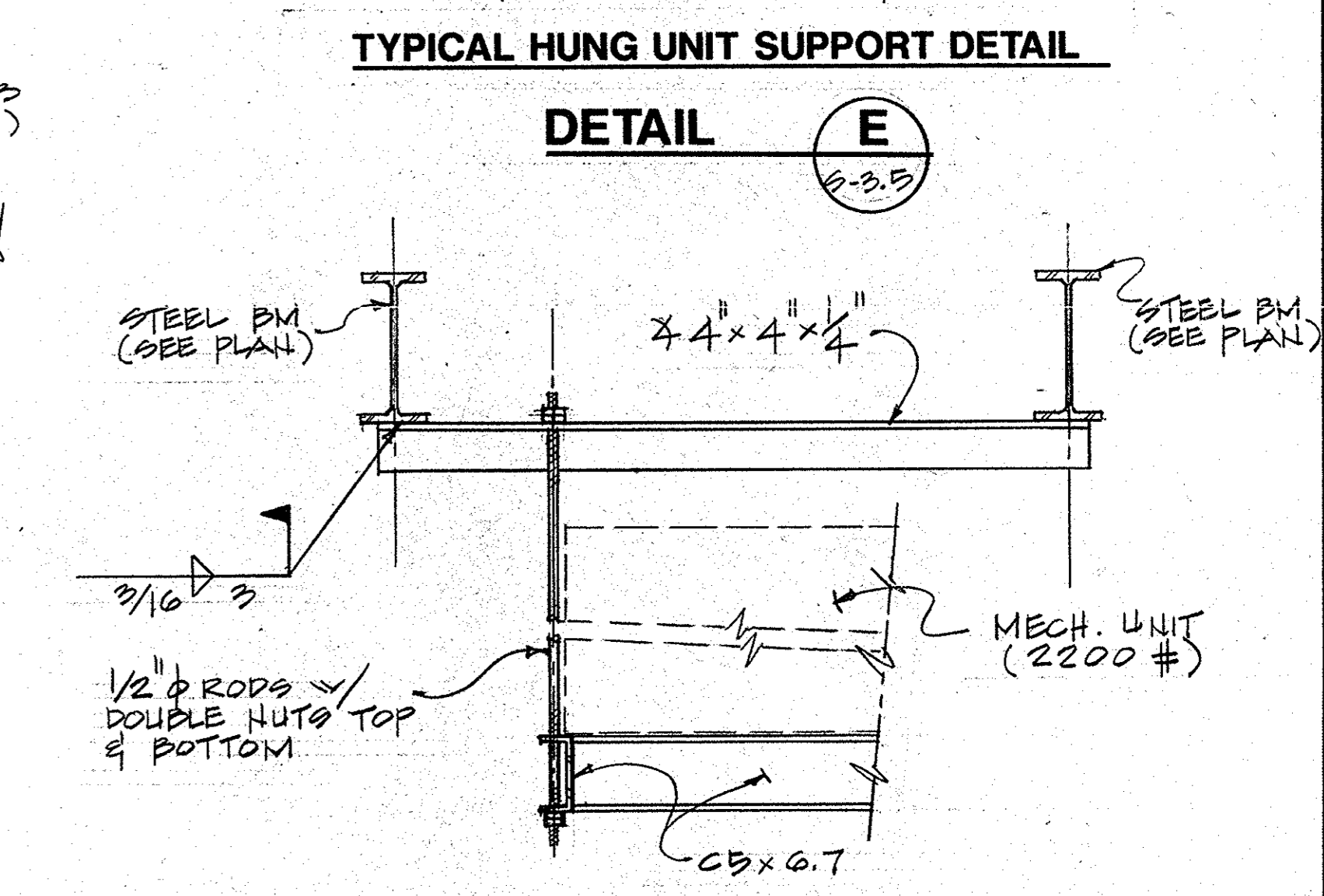
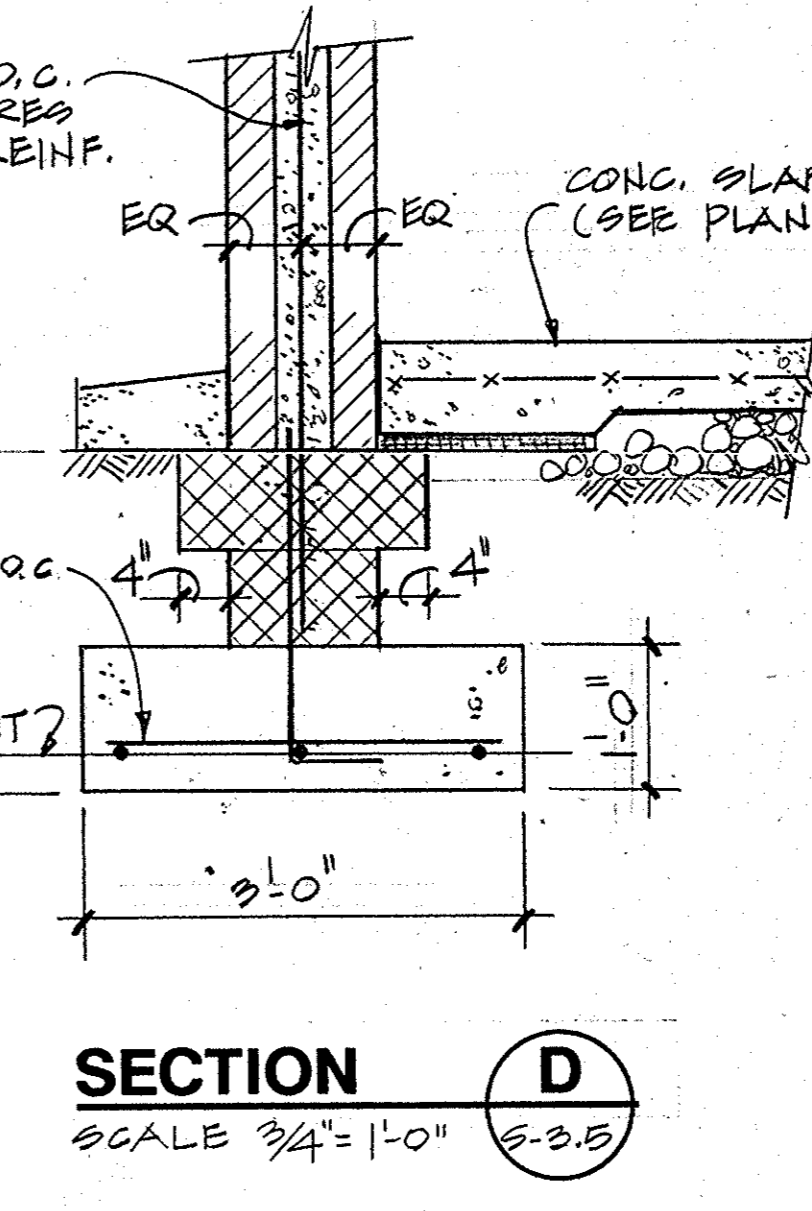
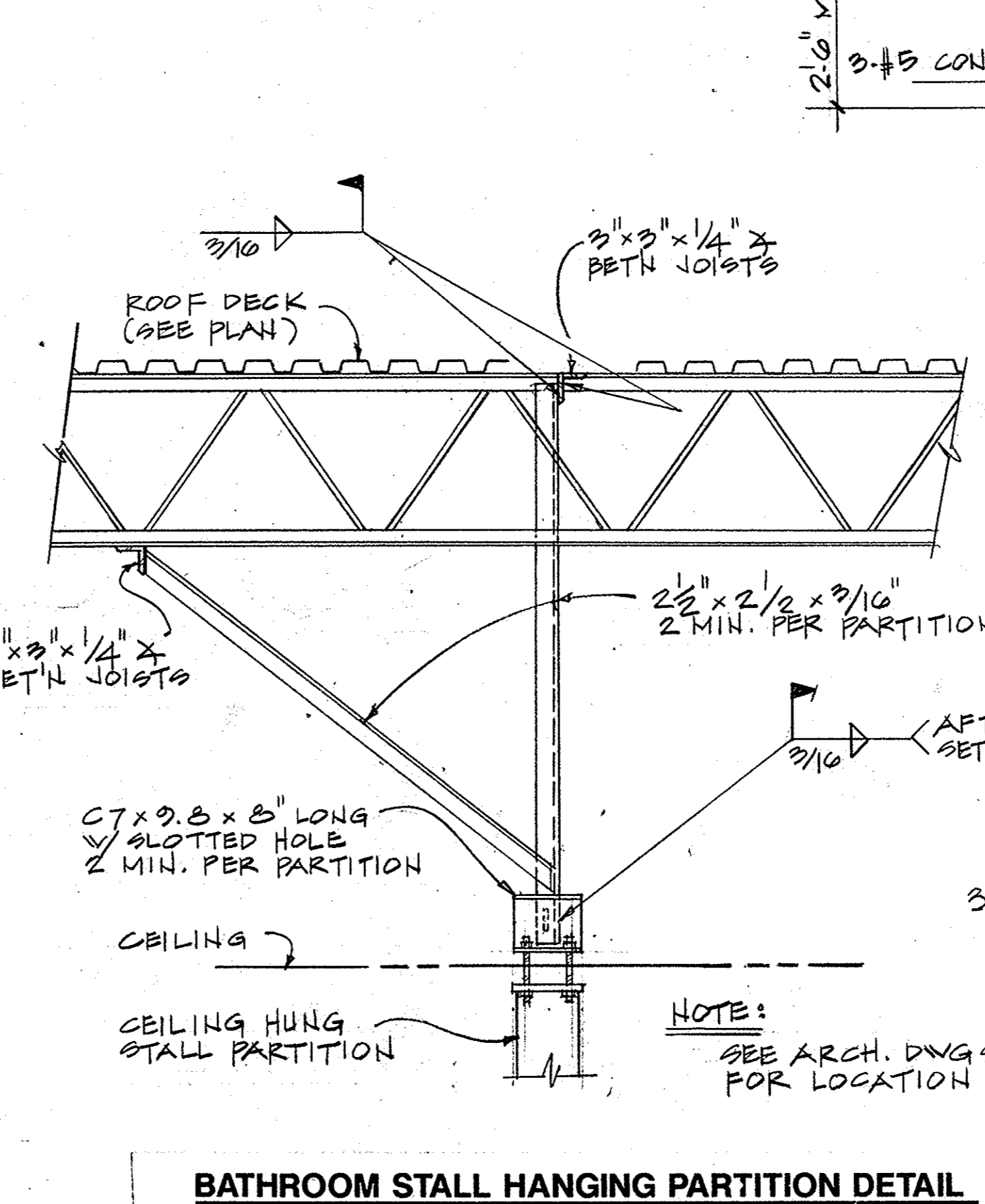
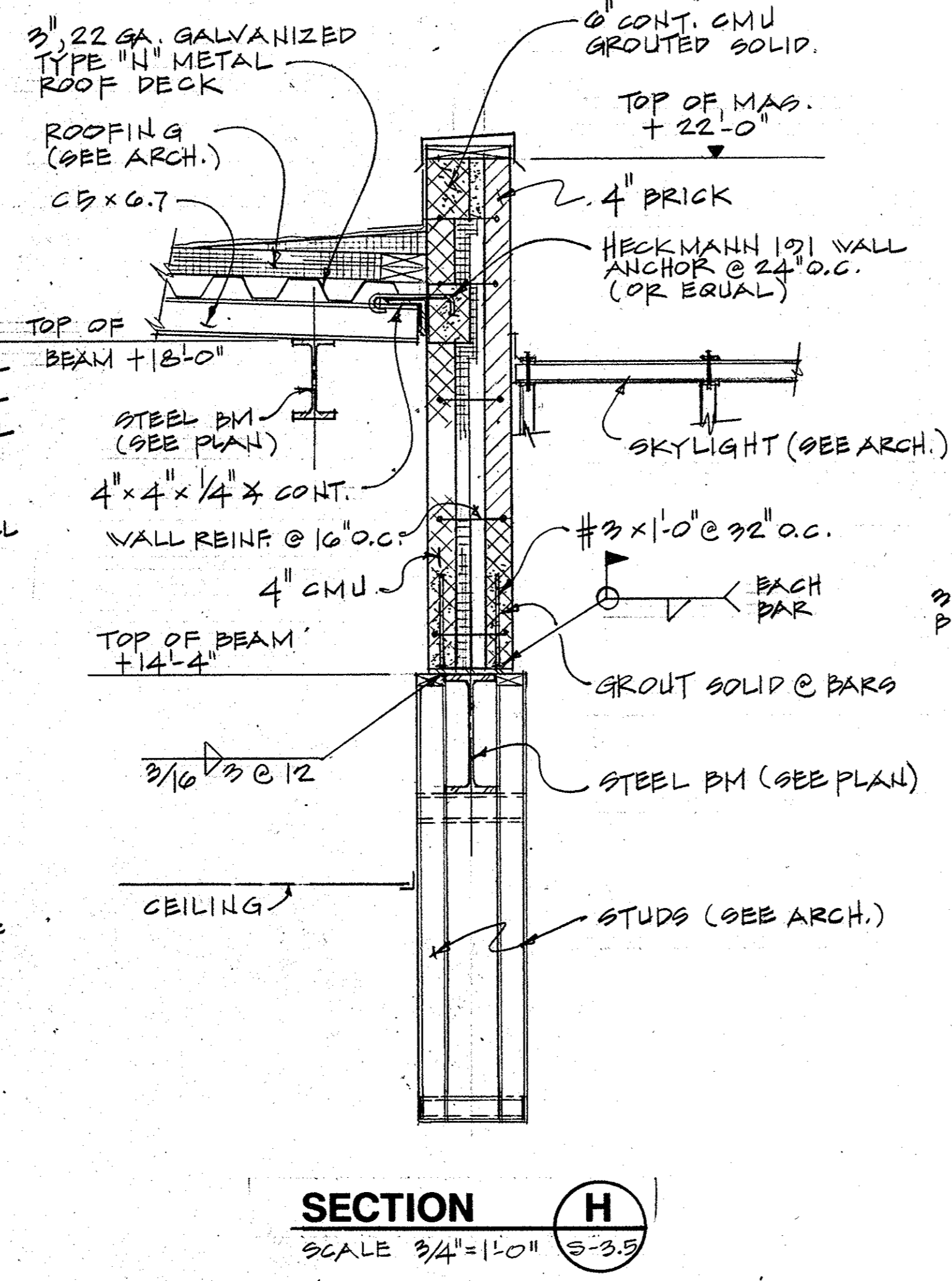
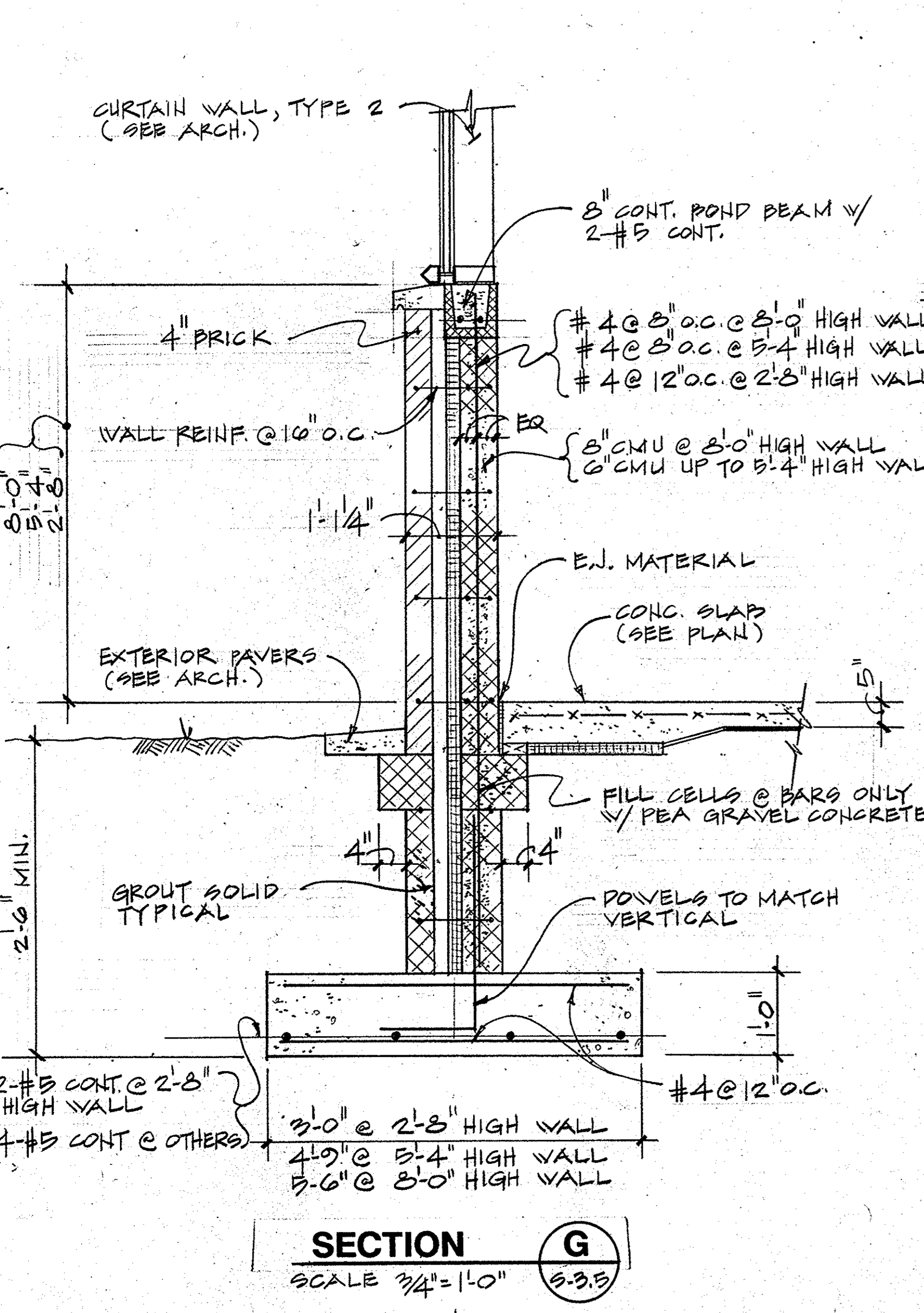
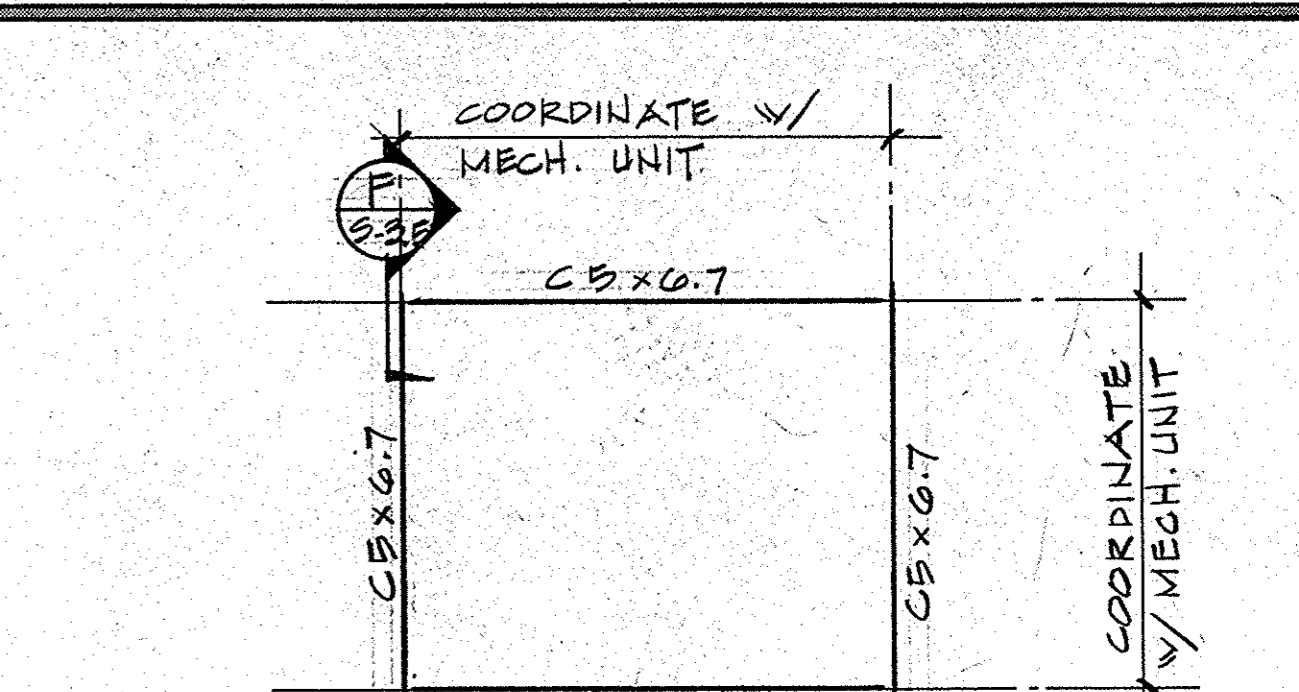
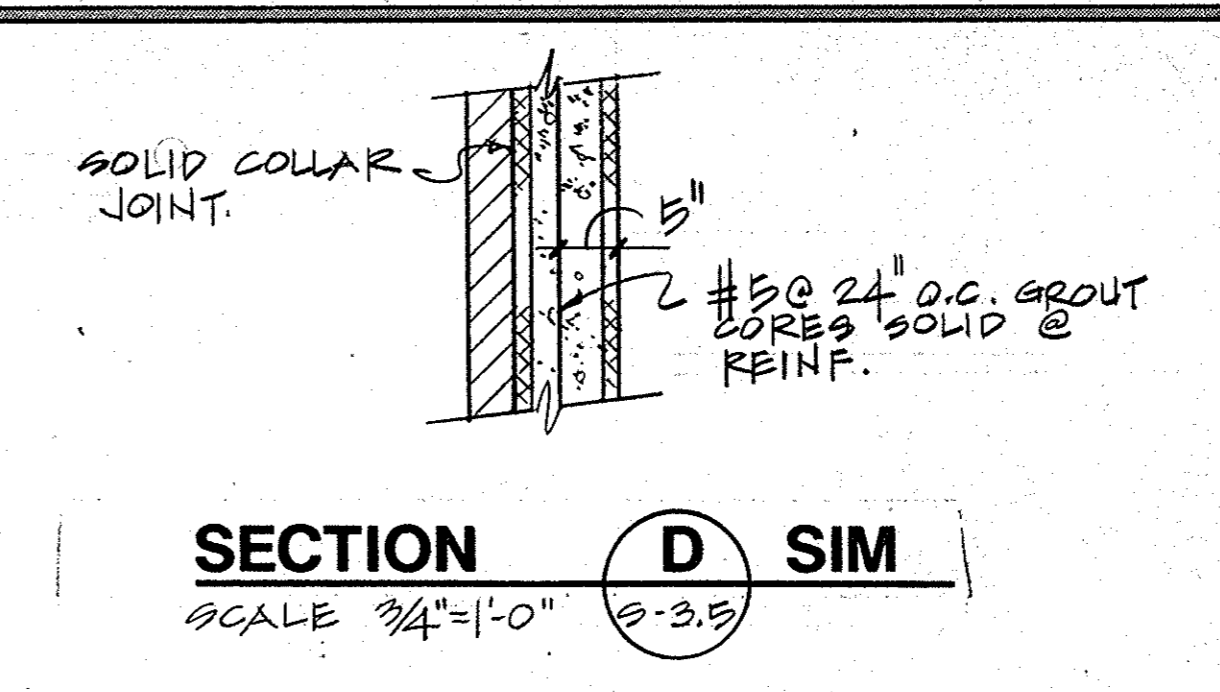
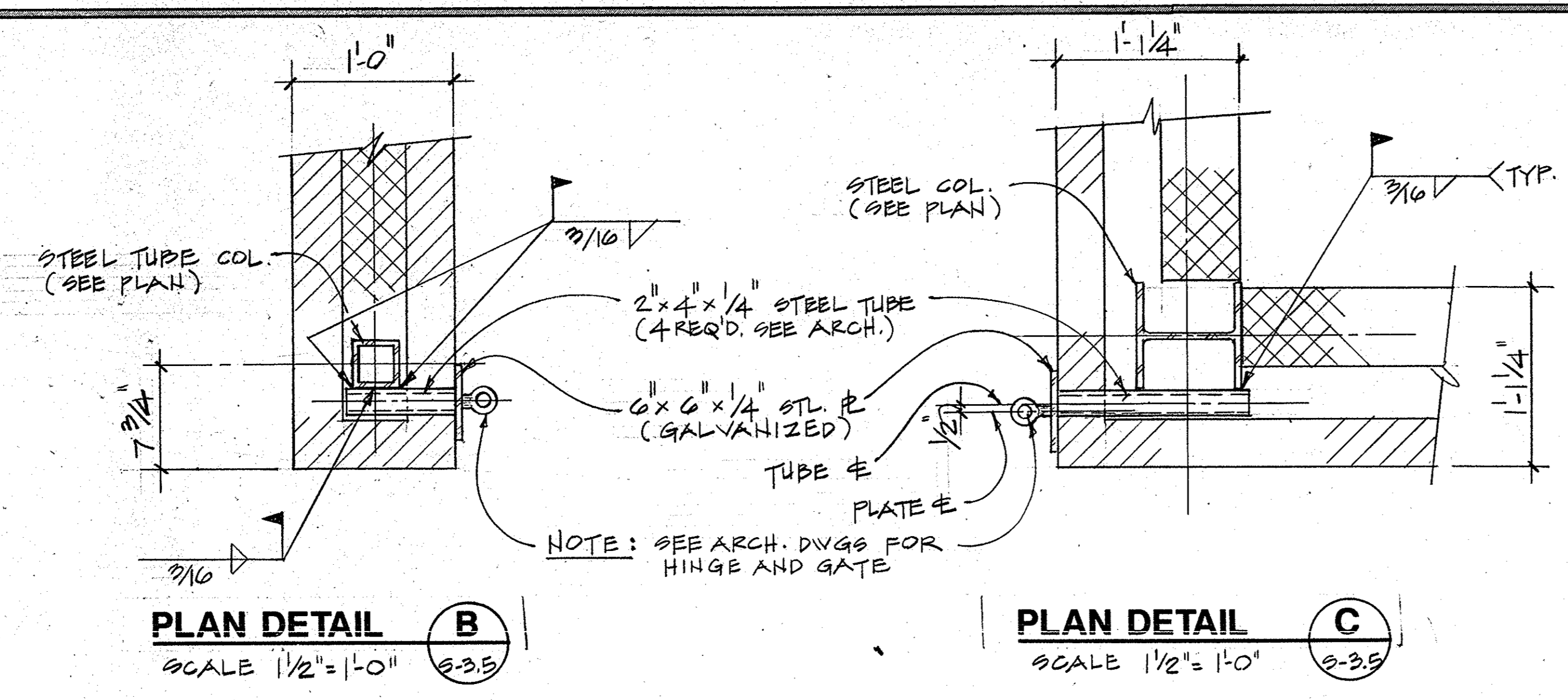
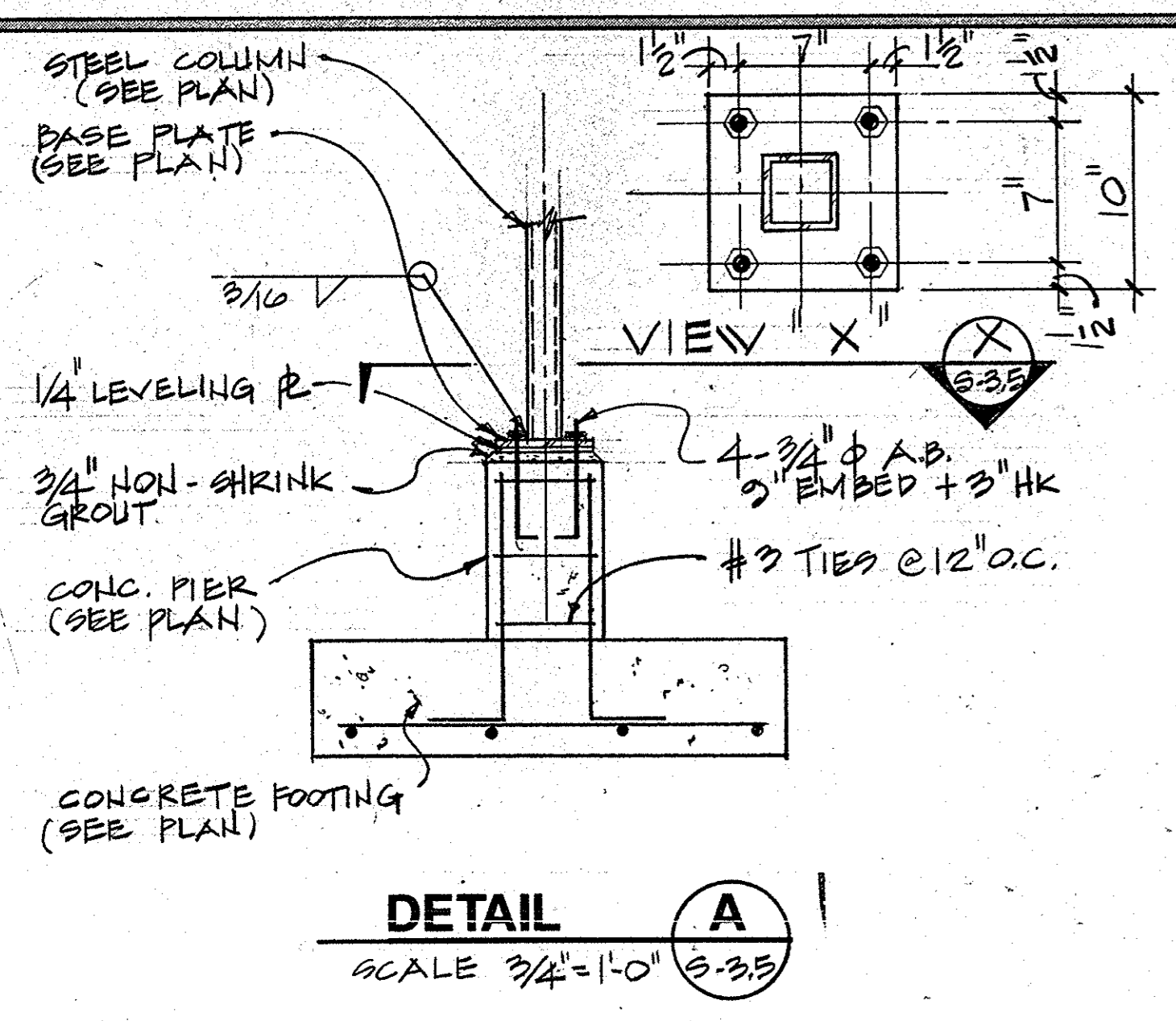
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S-3.4



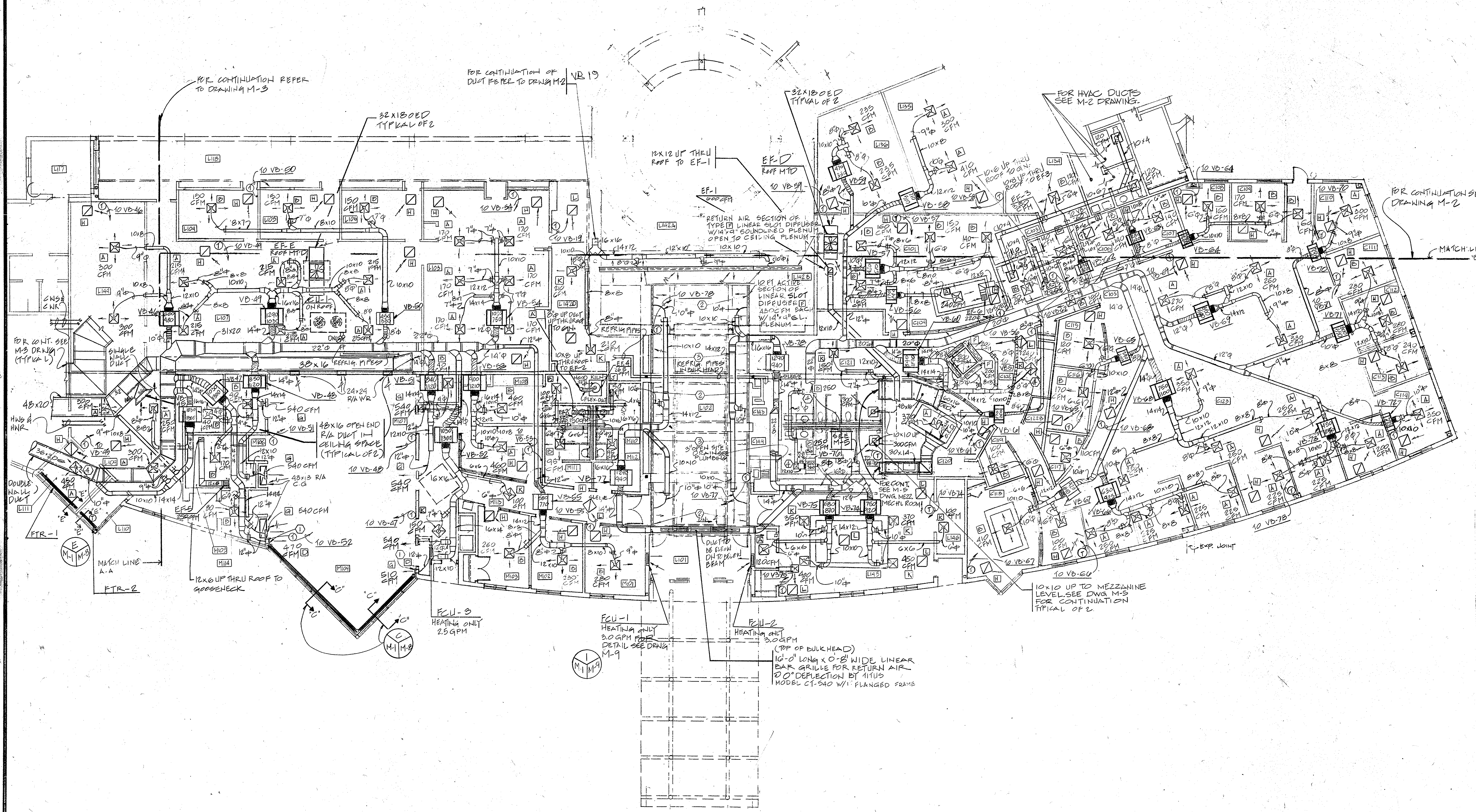
ALLISON, MCCORMAC & NICKOLAUS  
STRUCTURAL ENGINEERS  
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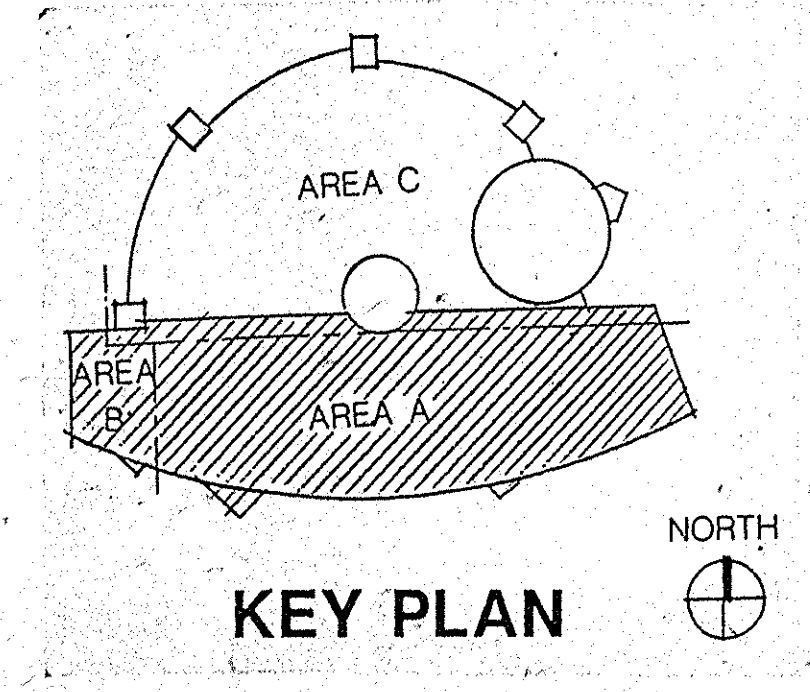
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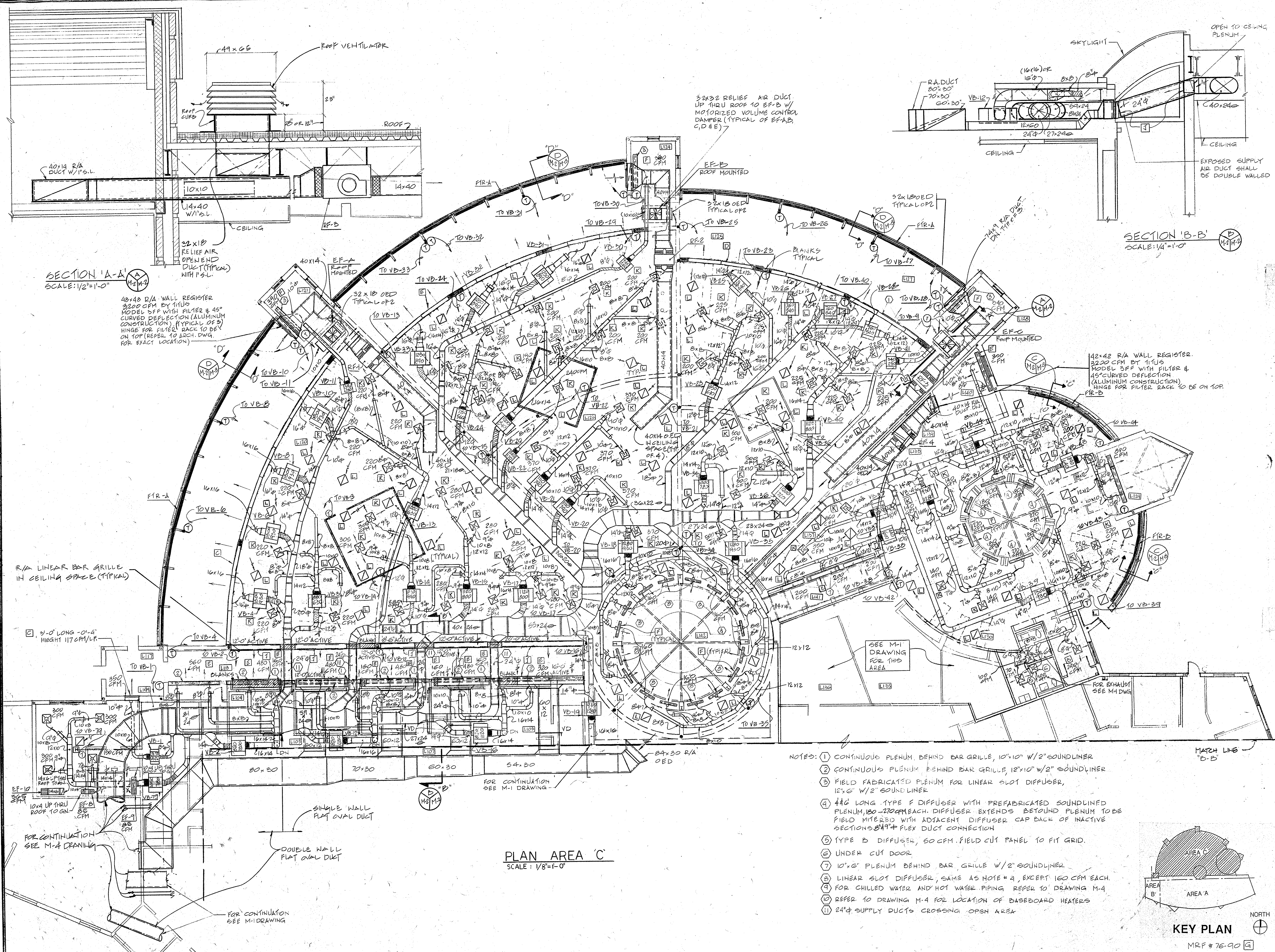
S-3.5



PLAN AREA 'A'  
SCALE: 1/8"=1'-0"

- NOTES:
- 1) BAR GRILLES FROM 8 FT TO 16 FT ARE EFF ACTIVE SECTION CENTERED IN BAR GRILLE LENGTH. CONTINUOUS PLENUM BEHIND ACTIVE SECTION OF BAR GRILLE. 10" X 10" W/8" SOUNDLINER (REFER TO ARCH.)
  - 2) TYPE [ ] LINEAR SLOT DIFFUSER WITH 5/8" X 12" SOUNDLINER PLENUM, 450 CFM.
  - 3) RETURN AIR LINEAR SLOT TYPE [ ] W/5/8" X 12" SOUNDLINER PLENUM OPEN TO CEILING PLENUM.
  - 4) THESE SUPPLY DIFFUSERS DO NOT HAVE A FACE PLATE & ARE SURFACE MOUNTED.
  - 5) FOR CHILLED/HOT WATER PIPING REFER TO DRAWING M-4.
  - 6) FOR LOCATION OF BASEBOARD HEATERS REFER TO DRAWING M-4.



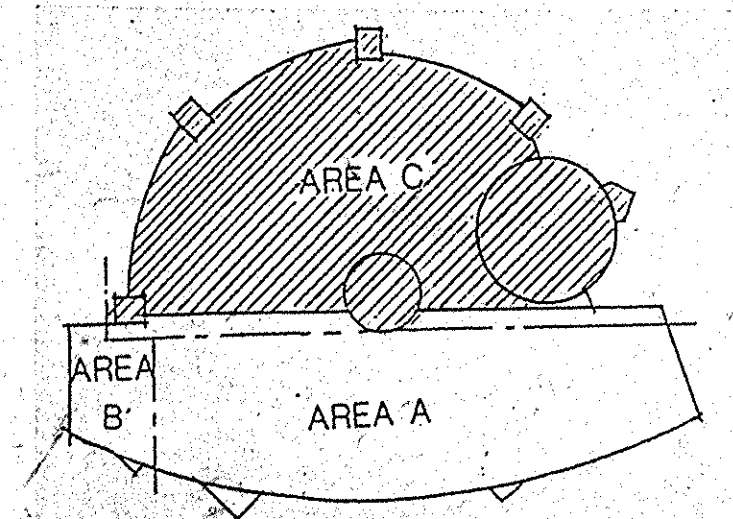


SECTION 'A-A'  
SCALE: 1/2"=1'-0"

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

PLAN AREA 'C'  
SCALE: 1/8"=1'-0"

- NOTES:
- 1 CONTINUOUS PLENUM BEHIND BAR GRILLE, 10"x10" W/2" SOUNDLINER
  - 2 CONTINUOUS PLENUM BEHIND BAR GRILLE, 12"x10" W/2" SOUNDLINER
  - 3 FIELD FABRICATED PLENUM FOR LINEAR SLOT DIFFUSER, 12"x6" W/2" SOUNDLINER
  - 4 4'6" LONG TYPE F DIFFUSER WITH PREFABRICATED SOUNDLINED PLENUM, 180-270CFM EACH. DIFFUSER EXTENDS BEYOND PLENUM TO BE FIELD MITERED WITH ADJACENT DIFFUSER CAP BACK OF INACTIVE SECTIONS 8'4"± FLEX DUCT CONNECTION
  - 5 TYPE B DIFFUSER, 50CFM. FIELD CUT PANEL TO FIT GRID.
  - 6 UNDER CUT DOOR
  - 7 10"x6" PLENUM BEHIND BAR GRILLE W/2" SOUNDLINER
  - 8 LINEAR SLOT DIFFUSER, SAME AS NOTE #4, EXCEPT 160CFM EACH.
  - 9 FOR CHILLED WATER AND HOT WATER PIPING REFER TO DRAWING M-4
  - 10 REFER TO DRAWING M-4 FOR LOCATION OF BASEBOARD HEATERS
  - 11 24"φ SUPPLY DUCTS CROSSING OPEN AREA



KEY PLAN  
MRP #76-90

**MENDOZA, RIBAS, FARNAS & ASSOC**  
 CONSULTING ENGINEERS  
 6285 Executive Boulevard, Rockville, Maryland 20852  
 (301) 461-8882

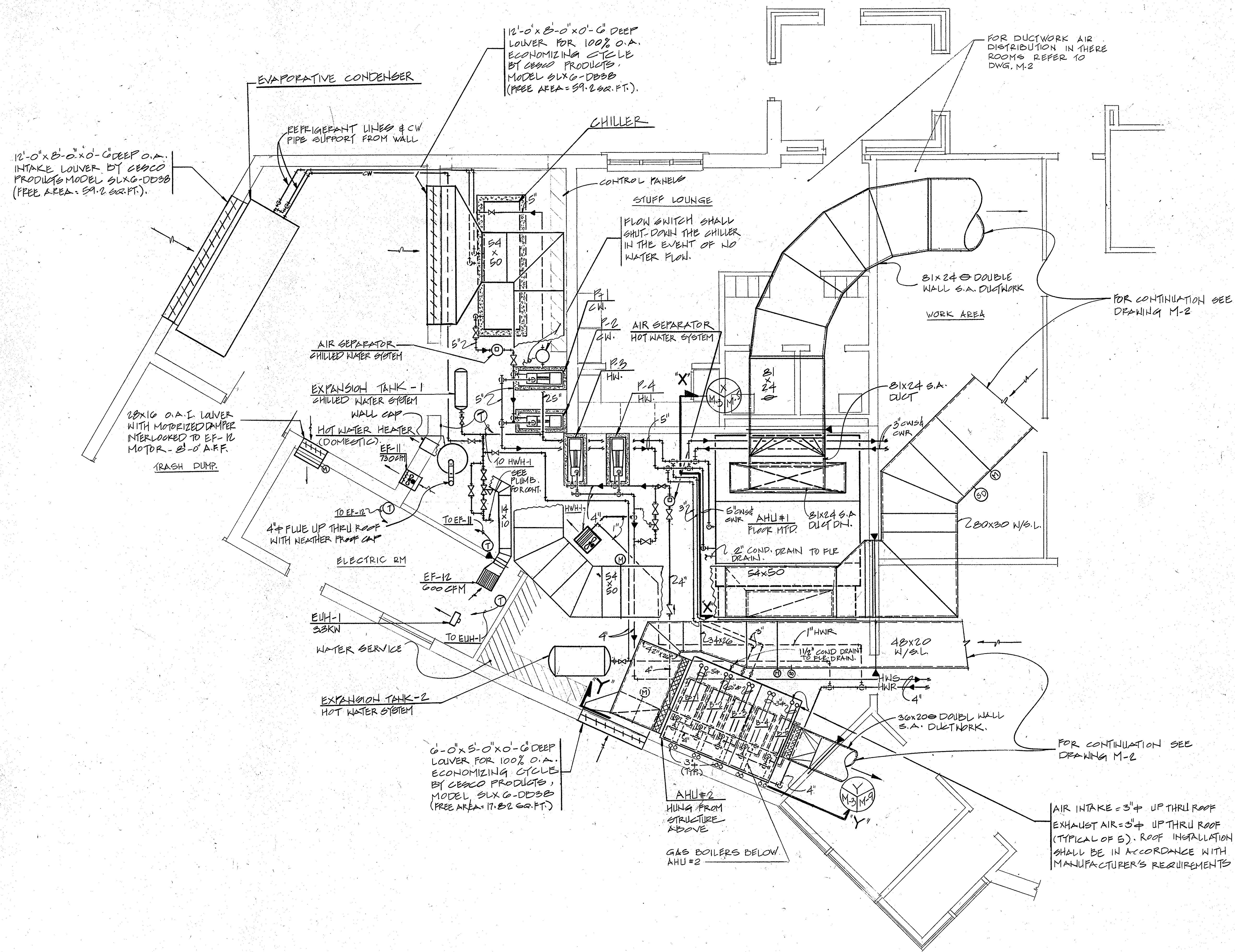
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PLAN AREA 'C'

**M·2**  
 OF 11

10-FEB-1992 BID SET



MECHANICAL ROOM EQUIPMENT LAY-OUT PLAN 'B'  
SCALE: 1/4" = 1'-0"

NOTES:-

- 1- PROVIDE VIBRATION ISOLATORS FOR AHU-1, WITH 2" DEFLECTION BY KINETICS MODEL FDS-2 (OR APPROVED EQUAL)
- 2- PROVIDE VIBRATION ISOLATORS FOR AHU-2 WITH 1" DEFLECTION BY KINETICS MODEL SRH-1 (OR APPROVED EQUAL)
- 3- PROVIDE INERTIA BASE BLOCK WITH SPRING TYPE ISOLATORS FOR #1, 2, 3 & 4 BY KINETICS MODEL CIB WITH FDS-1 SPRING ISOLATORS (OR APPROVED EQUAL).

**FTR-A2**  
 RECESSED IN FLOOR TRENCH - 72'-0" ACTIVE LENGTH 2 RONS ELEMENT 9.0 GPM & 90.0 MBH. BY VULCAN RADIATOR CO. ELEMENT: 2 RONS 1 1/4" C-4 1/4-48 PINS SEE DETAILED DRAWING M-B

**FTR-A3**  
 RECESSED IN FLOOR TRENCH. 67'-6" ACTIVE LENGTH. 2 RONS ELEMENT 7.0 GPM & 70.0 MBH. BY VULCAN RADIATOR CO. ELEMENT: 2 RONS 1 1/4" C-4 1/4-48 PINS SEE DETAILED DRAWING M-B

**FTR-A1**  
 RECESSED IN FLOOR TRENCH. 76'-6" ACTIVE LENGTH 2 RONS ELEMENT 9.0 GPM & 90.0 MBH. BY VULCAN RADIATOR CO. ELEMENT: 2 RONS 1 1/4" C-4 1/4-48 PINS SEE DETAILED DRAWING M-B

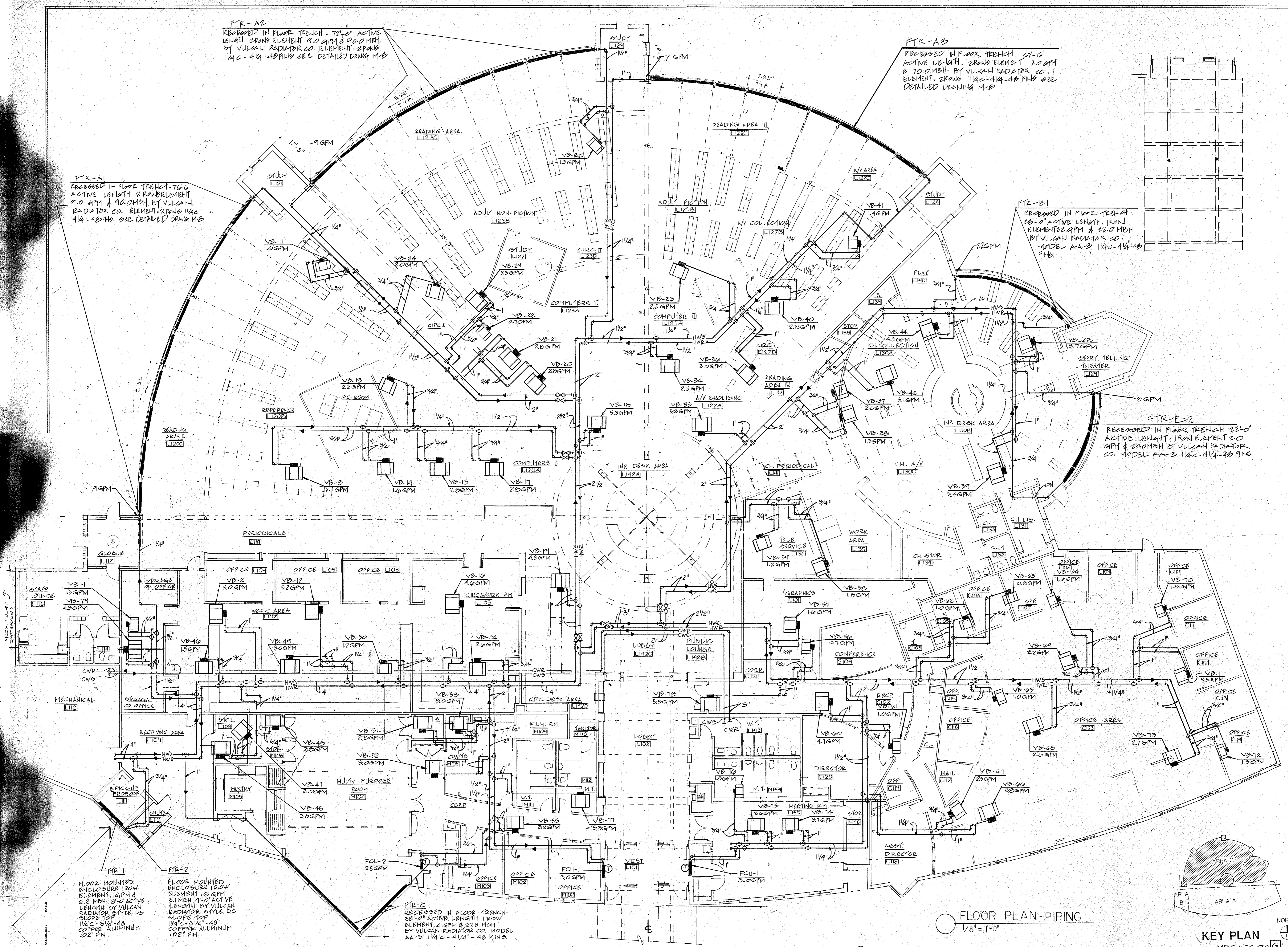
**FTR-B1**  
 RECESSED IN FLOOR TRENCH 88'-0" ACTIVE LENGTH. IRON ELEMENT 8.0 GPM & 80.0 MBH BY VULCAN RADIATOR CO. MODEL AA-3 1 1/4" C-4 1/4-48 PINS

**FTR-B2**  
 RECESSED IN FLOOR TRENCH 22'-0" ACTIVE LENGTH. IRON ELEMENT 2.0 GPM & 20.0 MBH BY VULCAN RADIATOR CO. MODEL AA-3 1 1/4" C-4 1/4-48 PINS

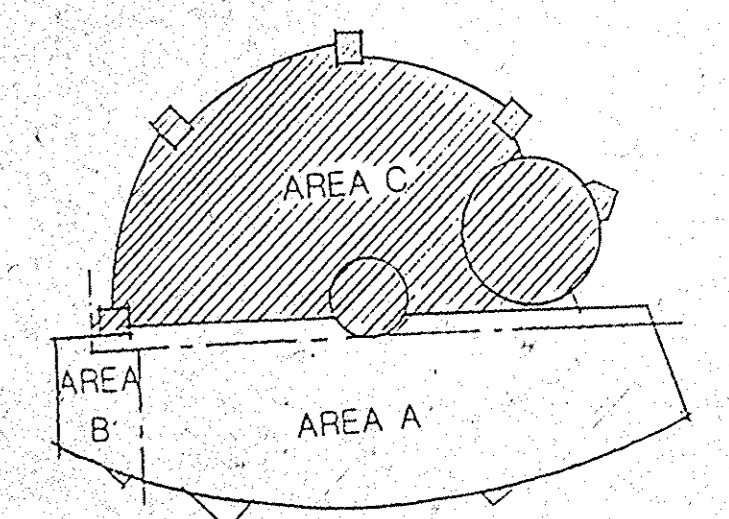
**FIR-1**  
 FLOOR MOUNTED ENCLOSURE IRON ELEMENT 1.0 GPM & 10.0 MBH. BY VULCAN RADIATOR CO. ELEMENT: 1 RON 1 1/4" C-4 1/4-48 COPPER ALUMINUM .02" FIN.

**FIR-2**  
 FLOOR MOUNTED ENCLOSURE IRON ELEMENT 1.0 GPM & 10.0 MBH. BY VULCAN RADIATOR CO. ELEMENT: 1 RON 1 1/4" C-4 1/4-48 COPPER ALUMINUM .02" FIN.

**FIR-C**  
 RECESSED IN FLOOR TRENCH 38'-0" ACTIVE LENGTH IRON ELEMENT 4.0 GPM & 40.0 MBH BY VULCAN RADIATOR CO. MODEL AA-3 1 1/4" C-4 1/4-48 PINS



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



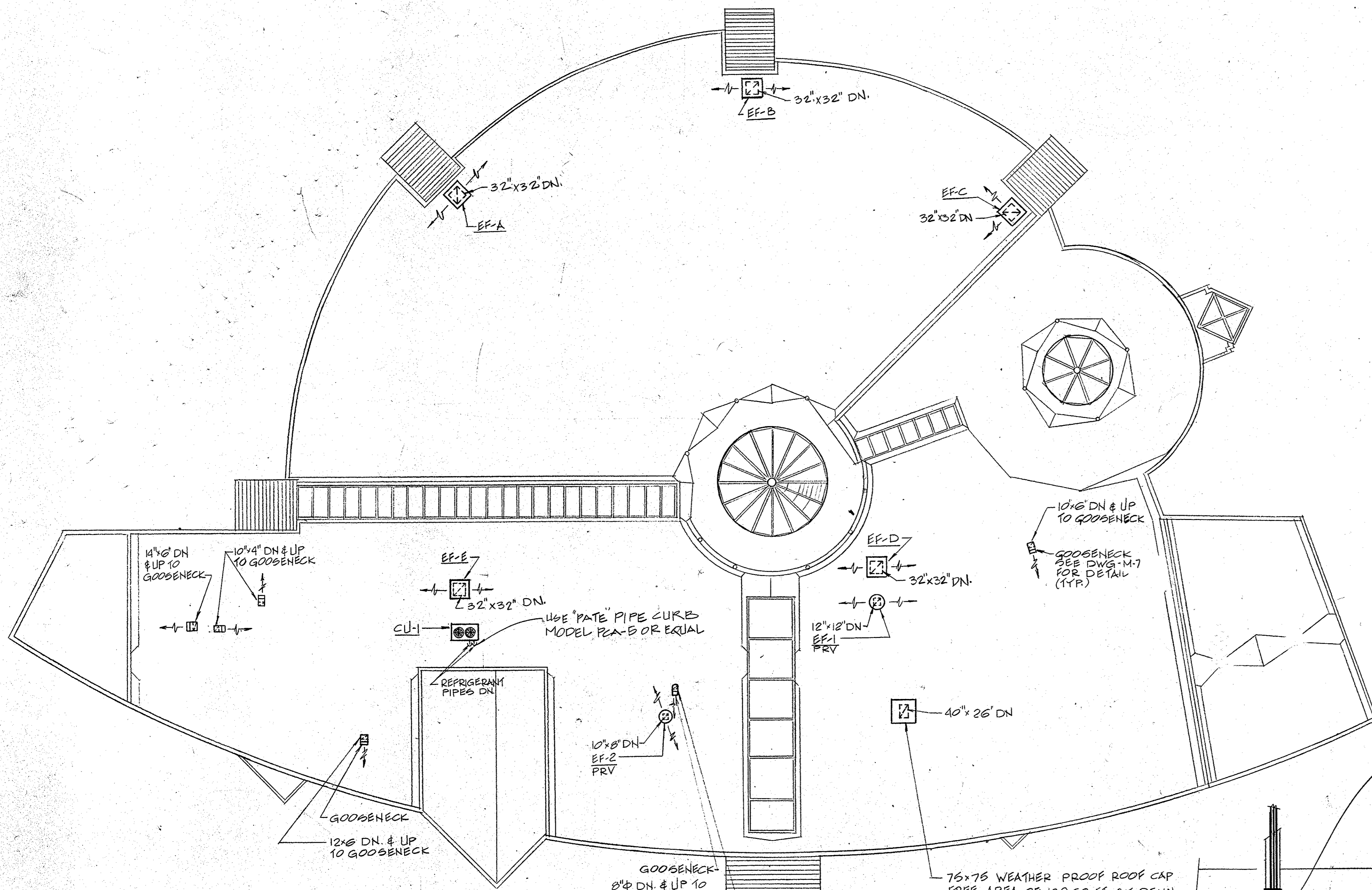
KEY PLAN  
 MRF # 76-90

**MENDOZA, RIBAS, FARINAS & ASSOC.**  
 CONSULTING ENGINEERS  
 6605 Executive Boulevard, Rockville, Maryland 20852  
 (301) 468-9892

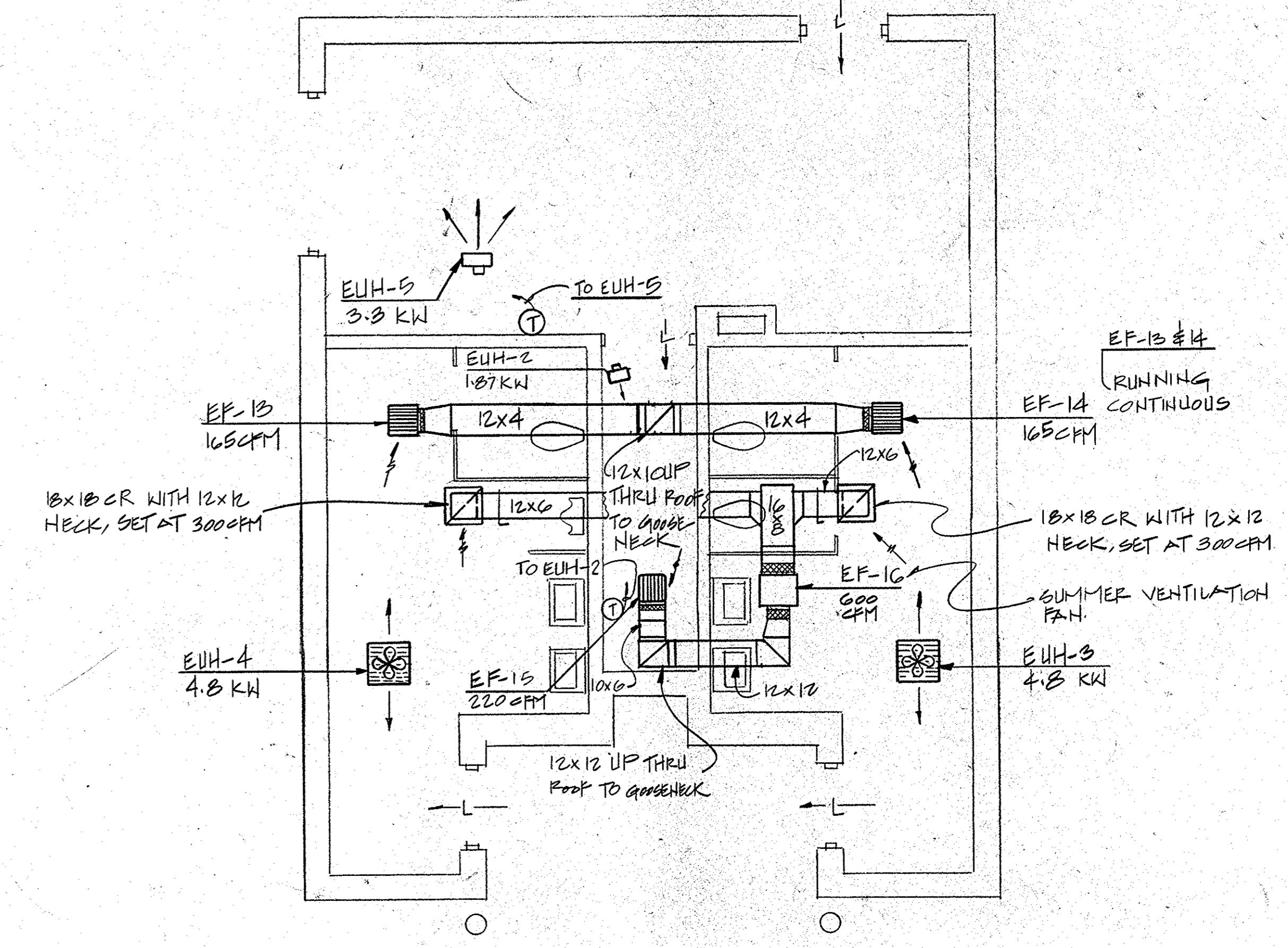
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**FLOOR PLAN - HOT & CHILLED WATER PIPING**  
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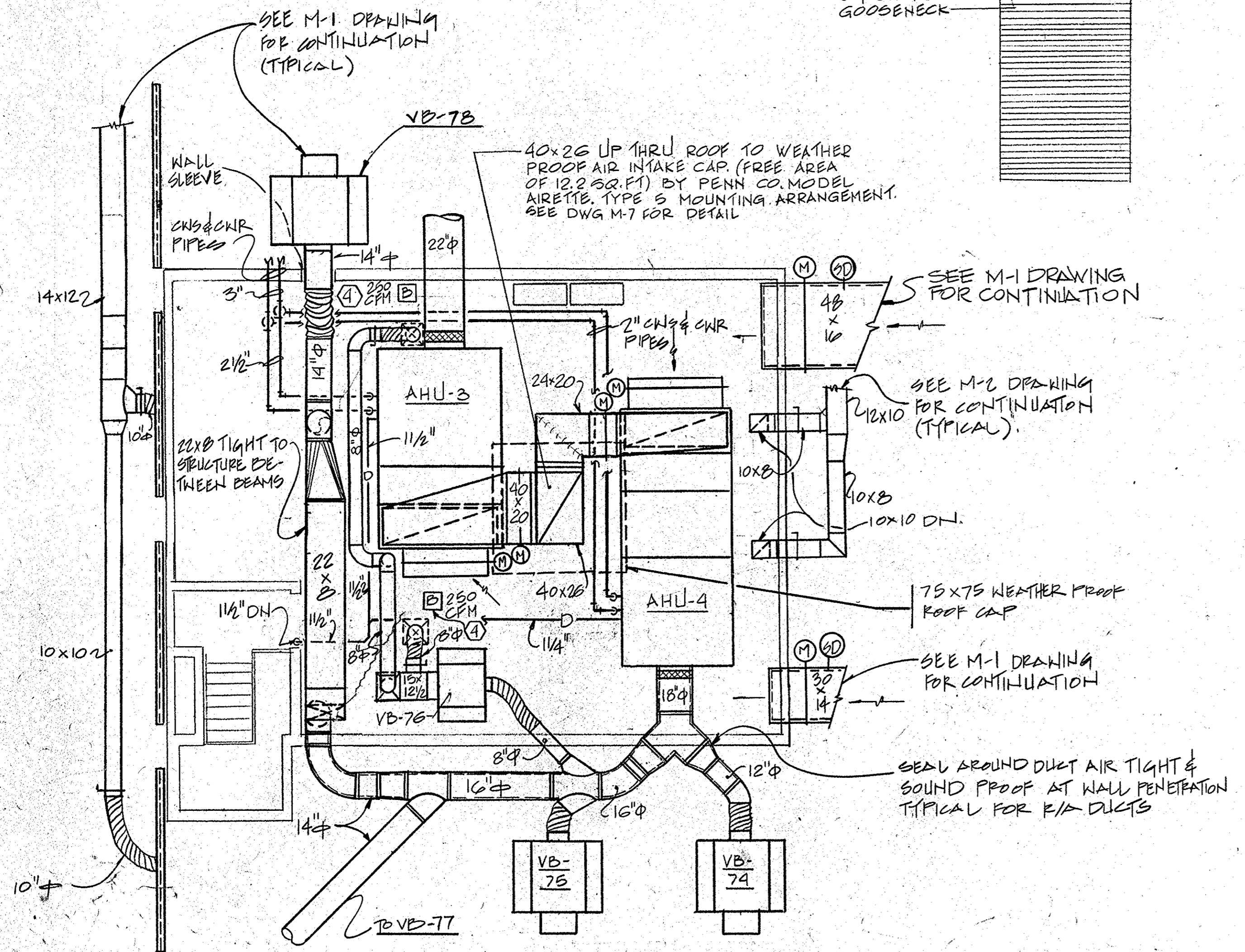
**M-4**  
 OF 11



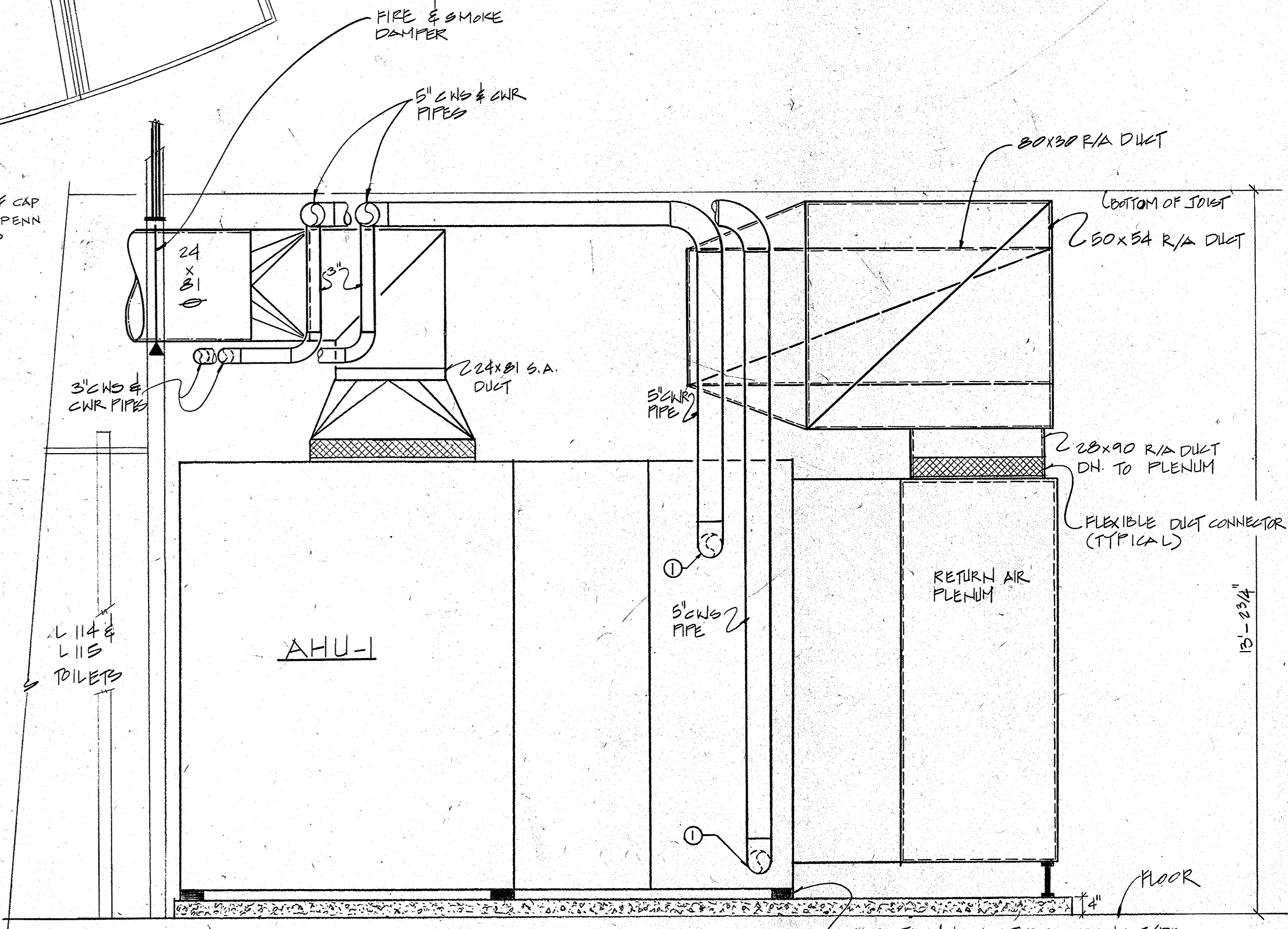
ROOF PLAN  
SCALE: 1/16" = 1'-0"



FACILITIES MAINTENANCE BUILDING FLOOR PLAN  
SCALE: 1/4" = 1'-0" (ALTERNATE NO. 1)



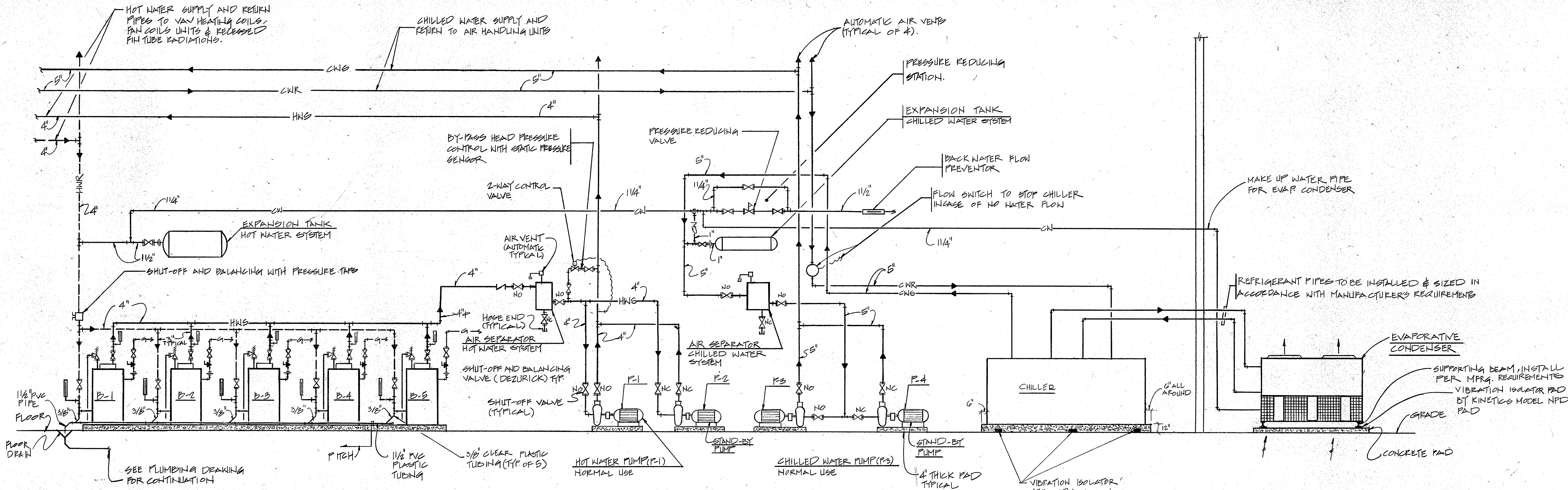
MEZZANINE MECHANICAL ROOM  
SCALE: 1/4" = 1'-0"



SECTION "X-X" MECHANICAL ROOM  
SCALE: 3/4" = 1'-0" DRAWING M-3

- NOTES:-
- 1). REFER TO DRAWING M-6 FOR VIBRATION ISOLATORS, PROVIDE WITH 2" DEFLECTION BY KINETIC MODEL PDS-2
  - 2). AHU-2 & 4 SHALL BE MOUNTED ON 4" THICK HOUSEKEEPING CONCRETE PADS.

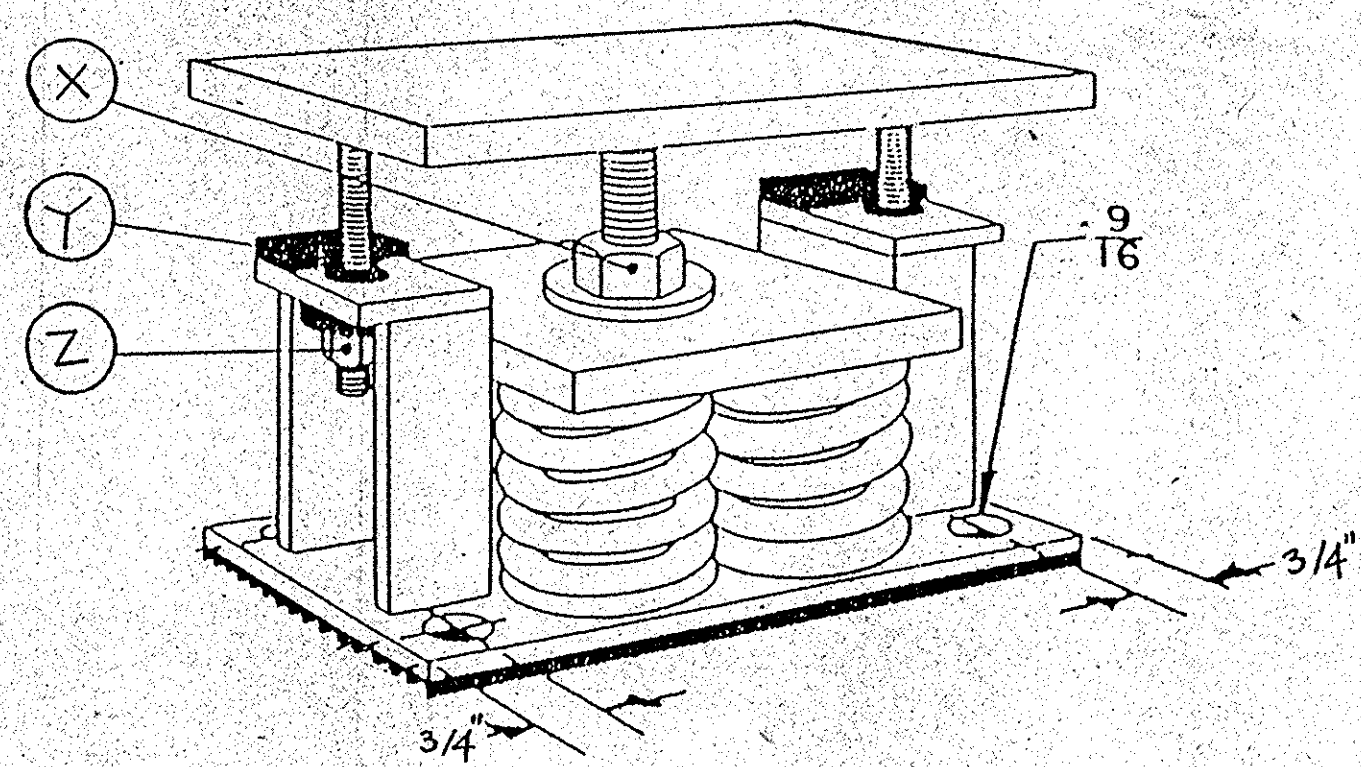
- NOTE:-
- 1) FOR CWS & CWR PIPES CONNECTION TO COOLING COIL SEE DETAILED DRAWING ON M-7



**HOT AND CHILLED WATER SCHEMATIC PIPING LAY-OUT (BOILER ROOM)**  
HOT TO SCALE

**NOTES**

- 1) EXPOSED COLD WATER MAKE-UP PIPE TO EVAPORATIVE CONDENSER SHALL BE INSULATED WITH 2" PREFORMED FIBERGLASS INSULATION HEAT TRACED WITH 7 WATTS/LINEAR FT. HEAT TAPE OVER PIPE & SECURE WITH BANDS. SEAL JOINTS TO AVOID WATER PENETRATION.
- 2) ALL REFRIGERANT PIPES SHALL BE INSULATED WITH ARMAFLEX INSULATION & VINYL COVER (INSTALLATION THICKNESS TO BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.)
- 3) CONTRACTOR TO INSTALL 1/2" WELDOLETS ON CHILLED & HOT WATER PIPING FOR ENERGY MANAGEMENT SENSORS IN BOILER ROOM (FINAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION).

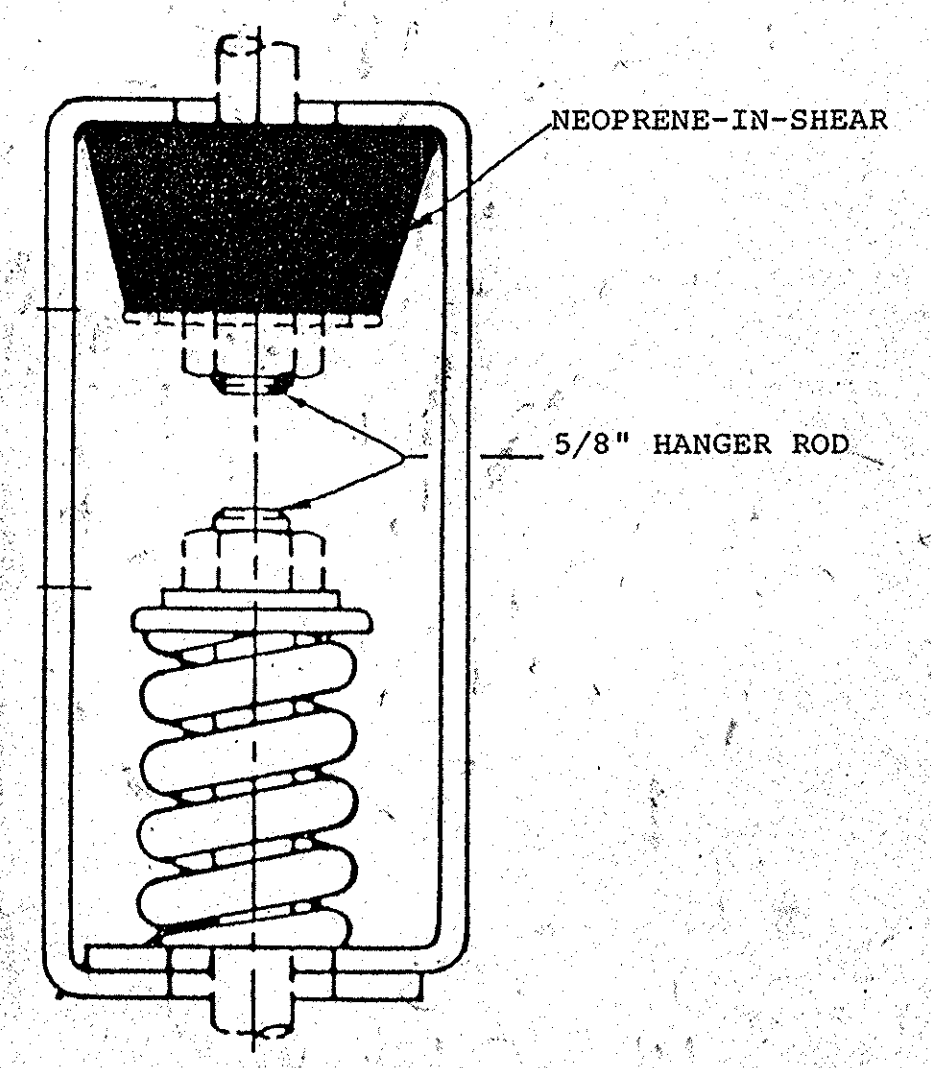
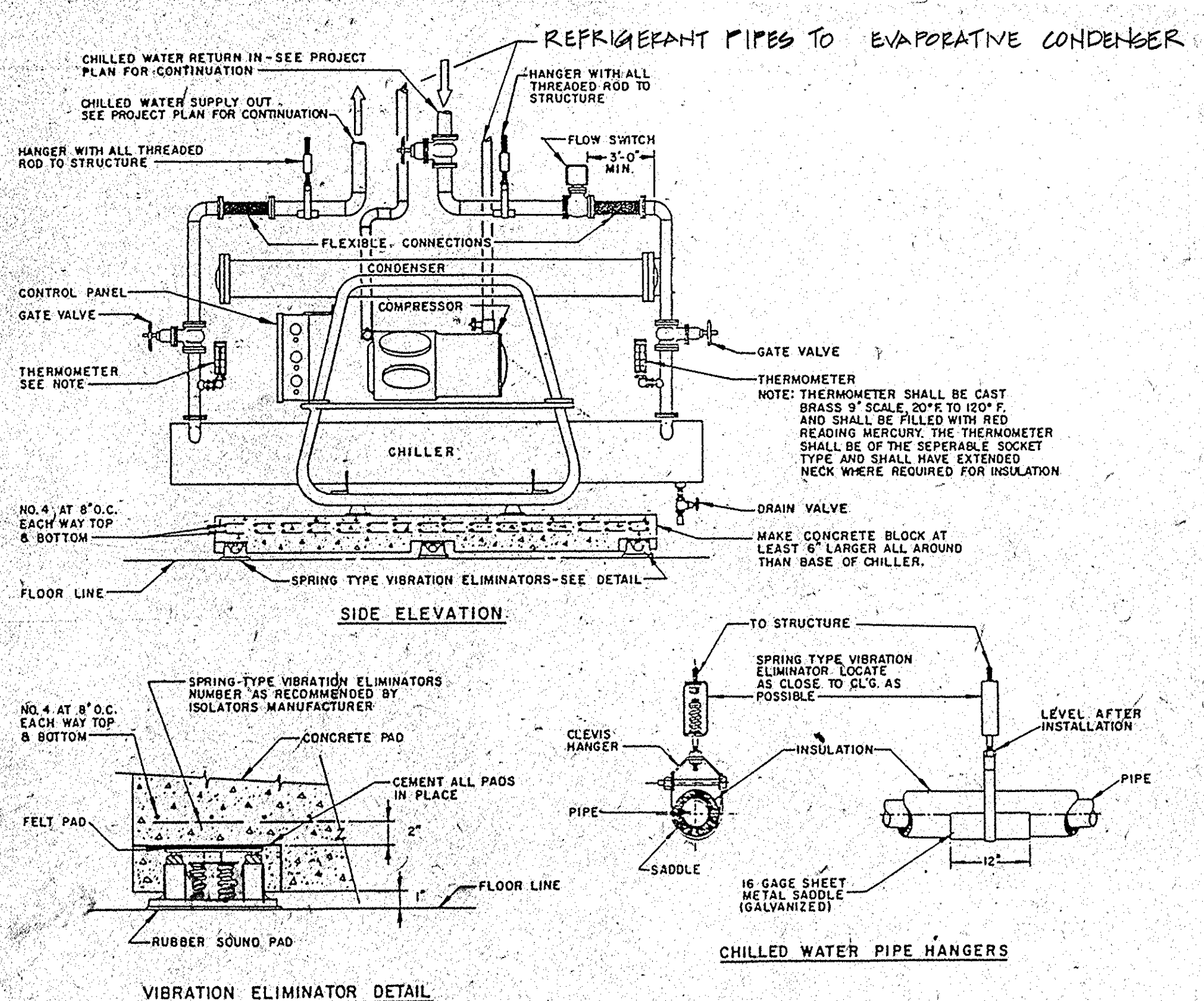


**INSTALLATION INSTRUCTIONS :**

- 1) TEMPORARILY REMOVE ALL VERTICAL LOCK NUTS "Z" FROM HOLD-DOWN BOLTS THEN PLACE ISOLATORS IN POSITION UNDER BRACKET, BASE, OR EQUIPMENT LEG. ISOLATORS MUST BE INSTALLED ON A LEVEL SURFACE.
- 2) ADJUST ISOLATORS BY TURNING LEVELING NUT "X" CLOCK-WISE SEVERAL TURNS AT A TIME, ALTERNATELY ON EACH ISOLATOR UNTIL EQUIPMENT BEGINS TO RAISE. THEN LEVEL AS REQUIRED AND REMOVE TEMPORARY SHIMS "Y".
- 3) REPLACE ALL VERTICAL LOCK NUTS "Z" ON HOLD-DOWN BOLTS AND FASTEN FINGER TIGHT.
- 4) MOUNTS ARE NOW PROPERLY ADJUSTED AND READY FOR THE SUPPORTED EQUIPMENT TO BE OPERATED.

NOTE: FOR FLOOR MOUNTED EQUIPMENTS BY KINETICS MODEL FLS.

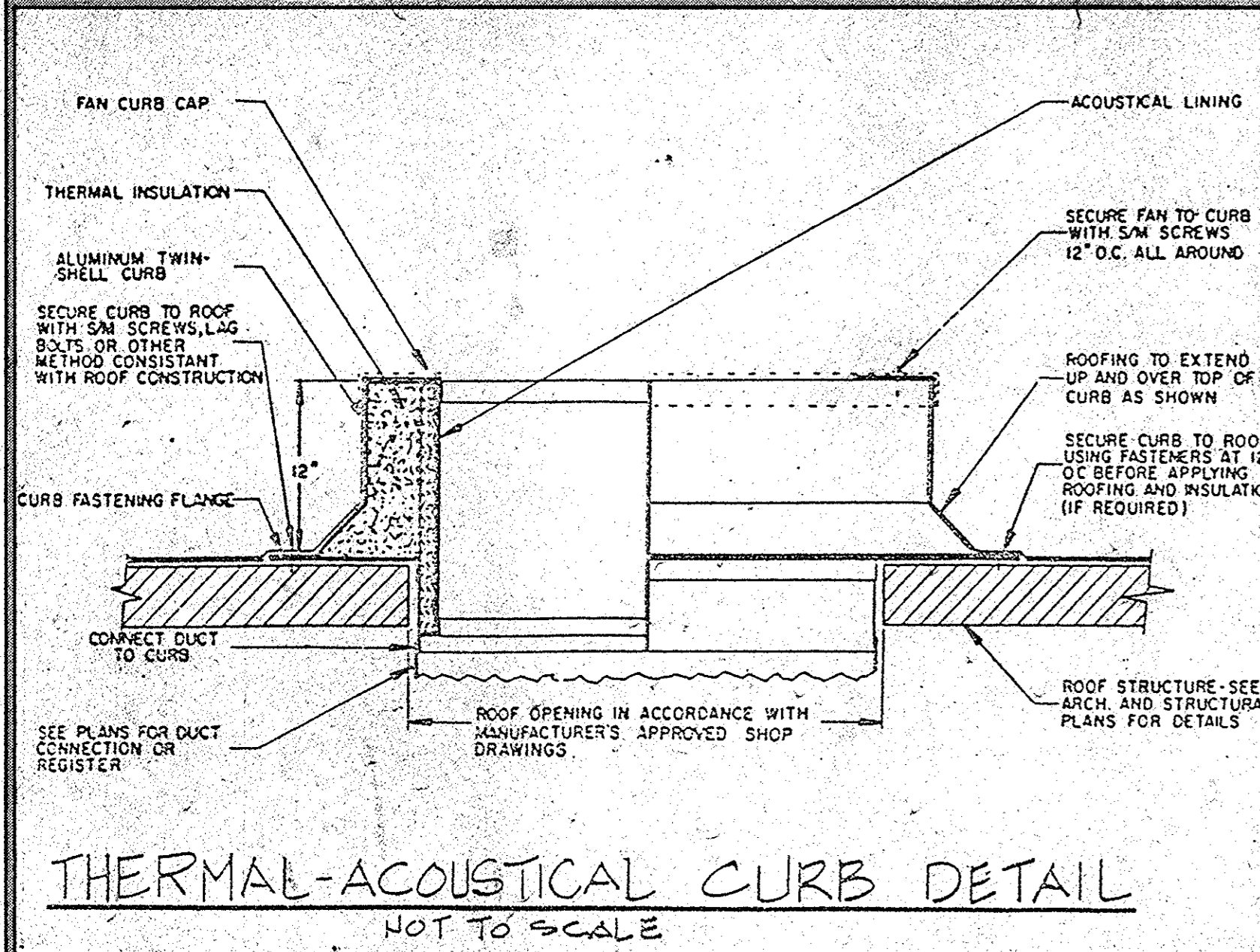
**VIBRATION ISOLATOR DETAIL**  
NOT TO SCALE



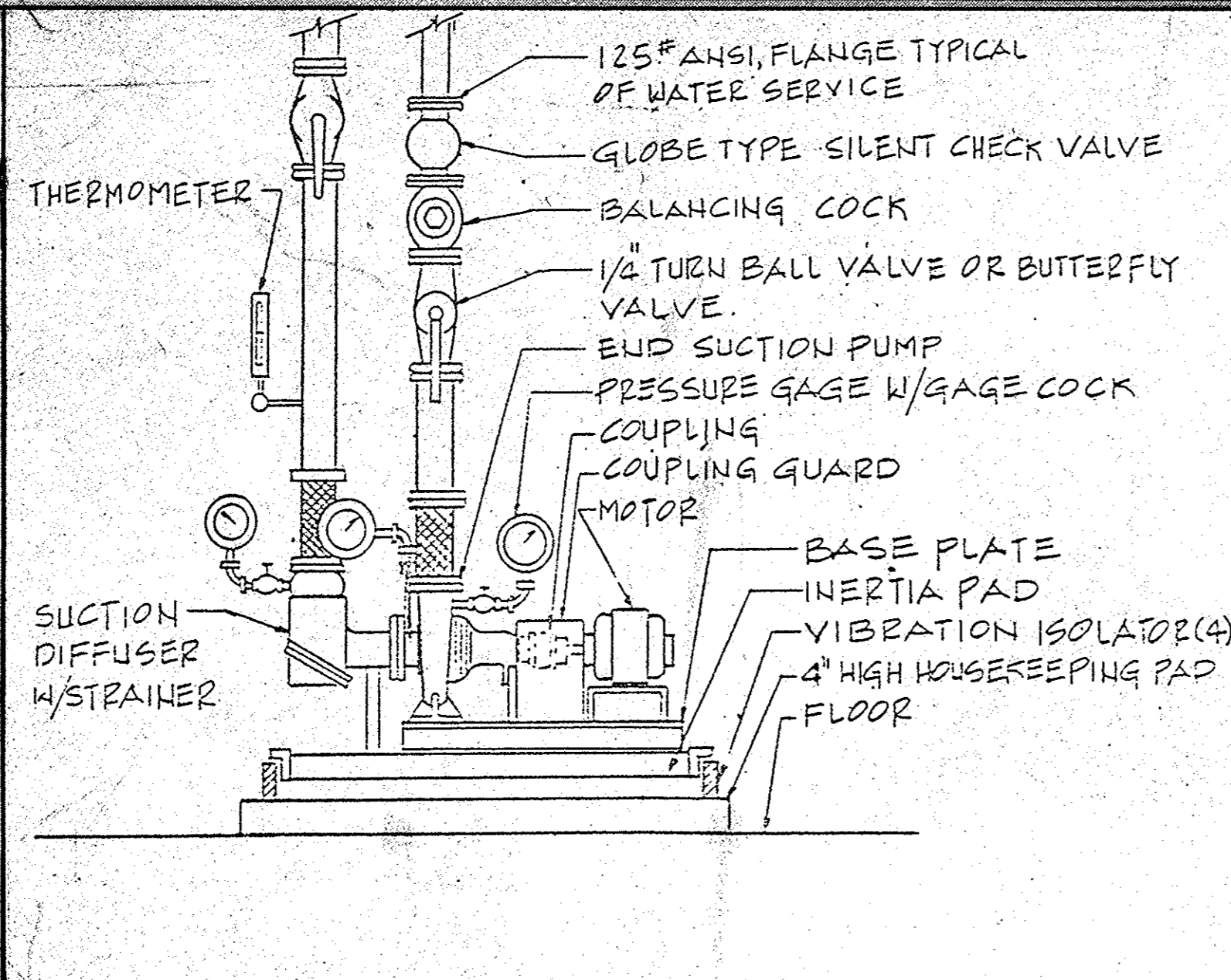
**TYPICAL VIBRATION ISOLATOR DETAIL**  
FOR SUSPENDED AHU AT BOILER RM  
NOT TO SCALE

**INSTALLATION OF VIBRATION ELIMINATOR FOR CHILLER DETAIL**

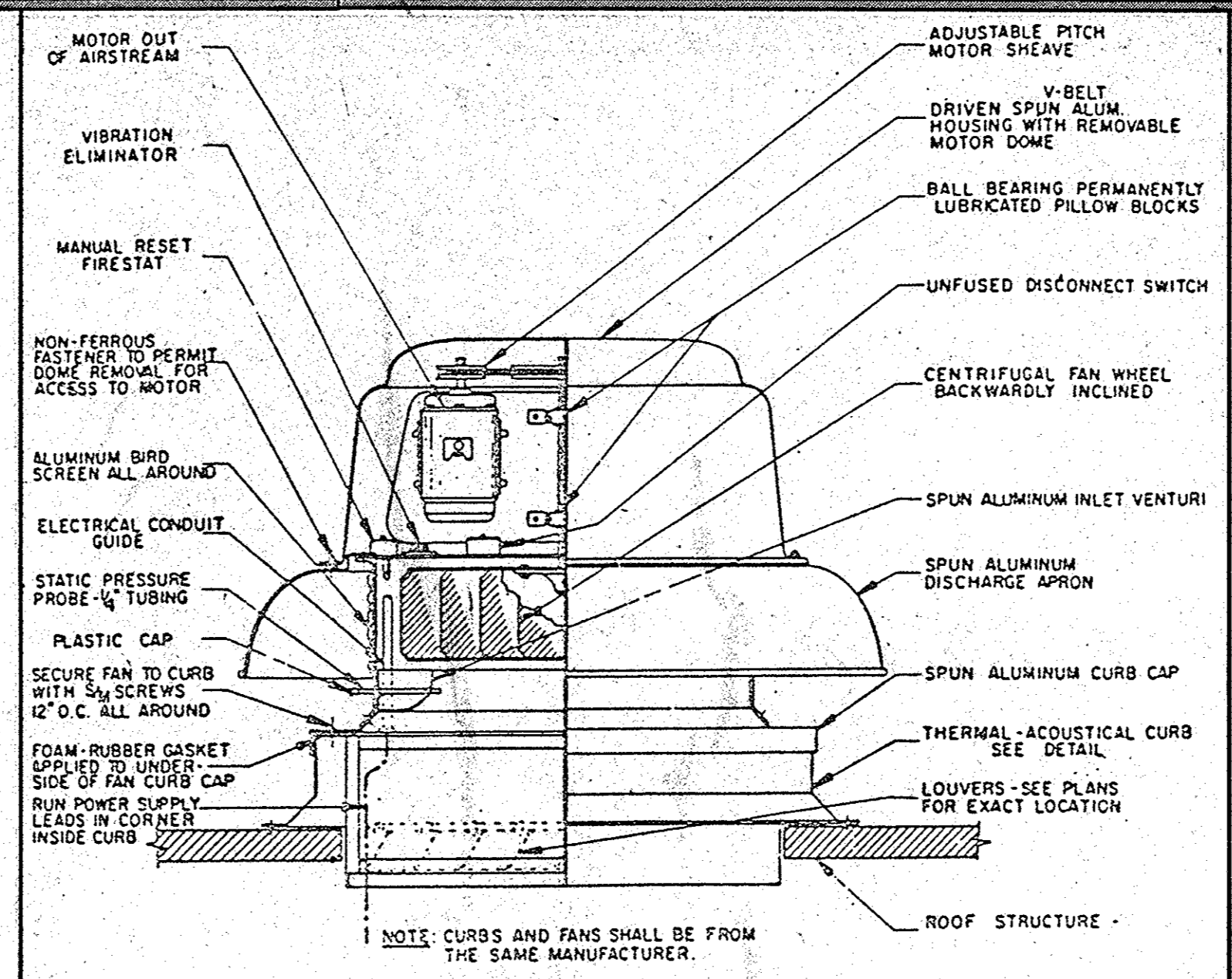




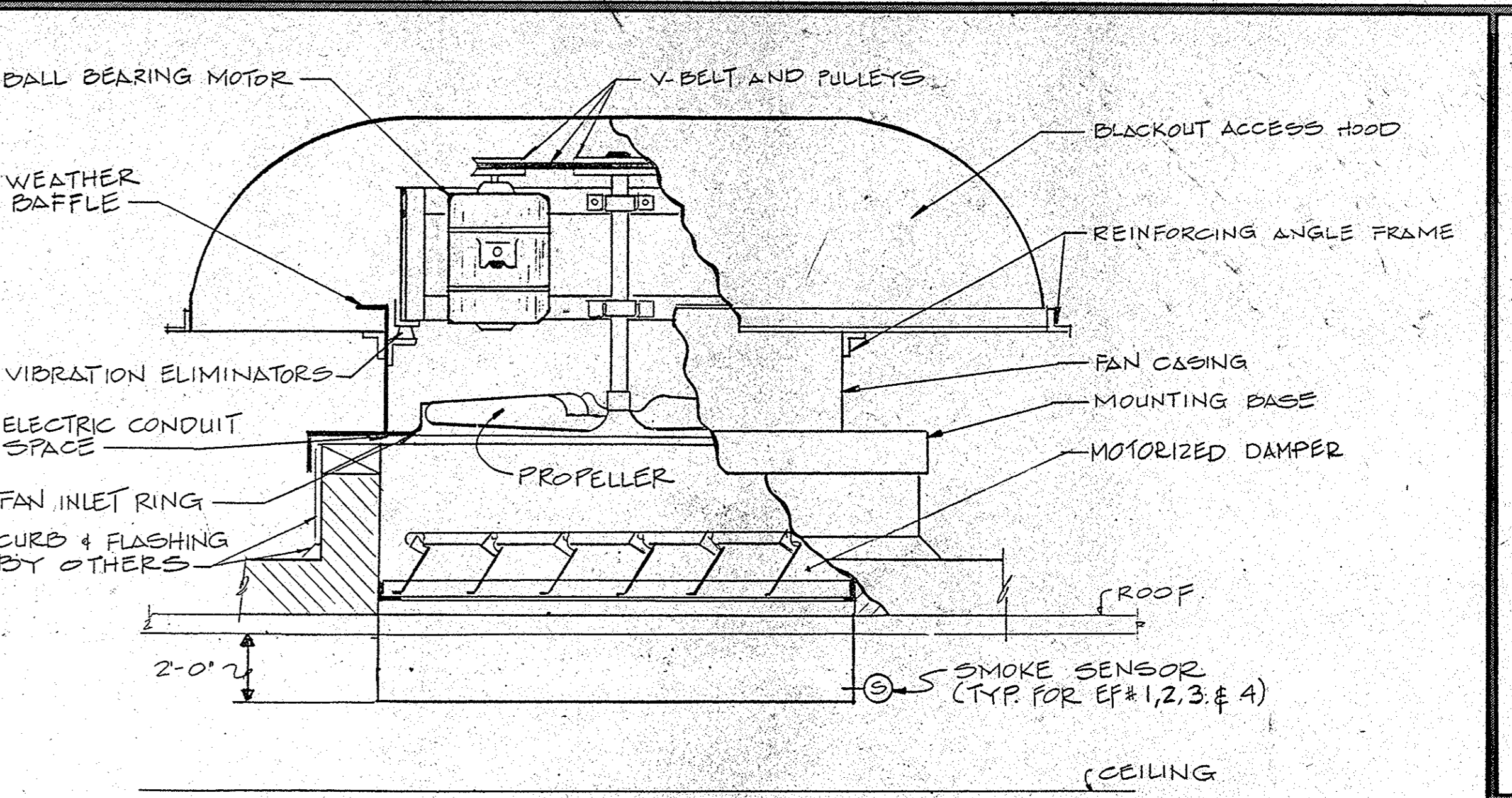
**THERMAL-ACOUSTICAL CURB DETAIL**  
NOT TO SCALE



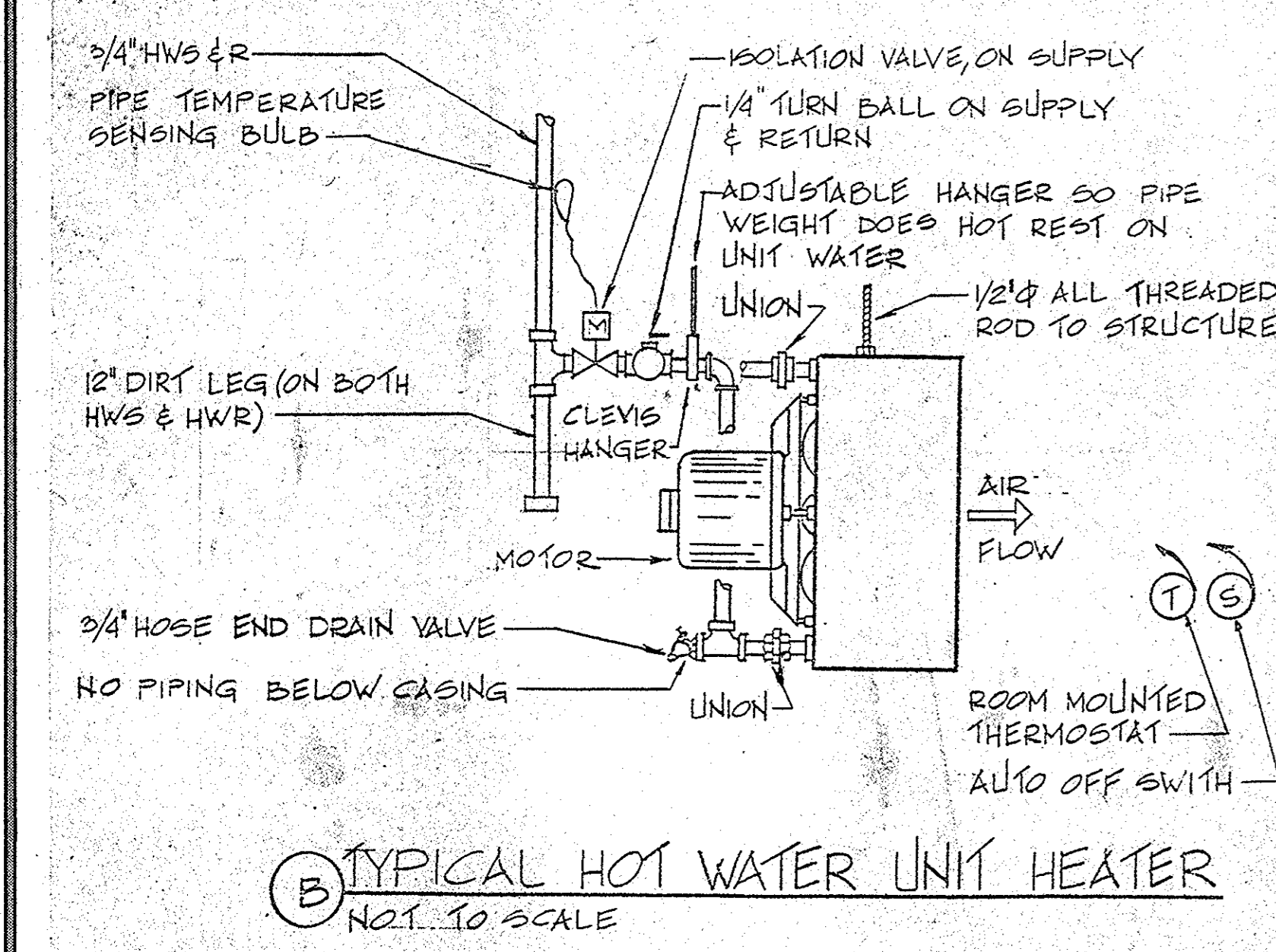
**FRAME MOUNTED END SUCTION PUMP DETAIL**  
NOT TO SCALE



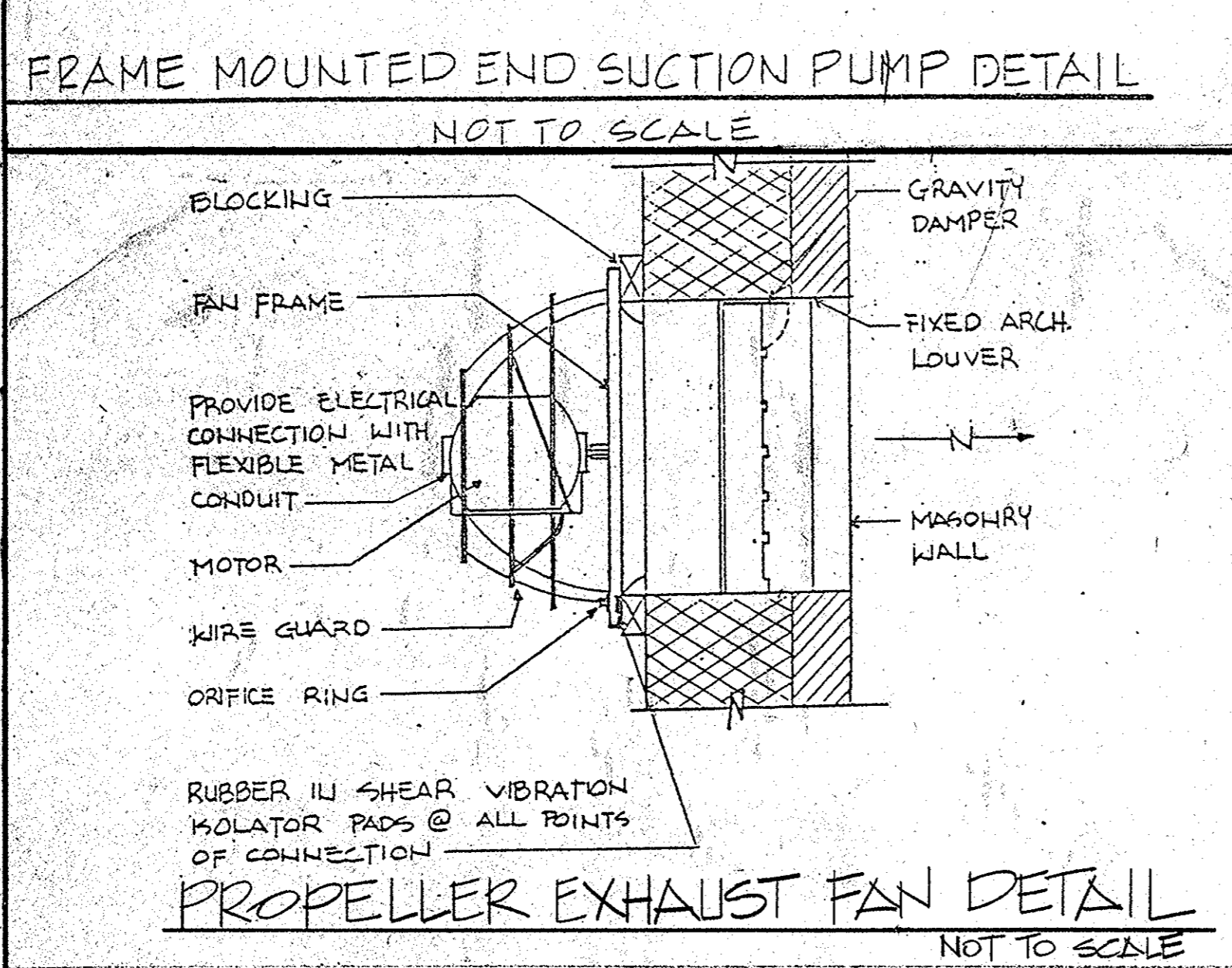
**EXHAUST FAN DETAIL**  
NOT TO SCALE



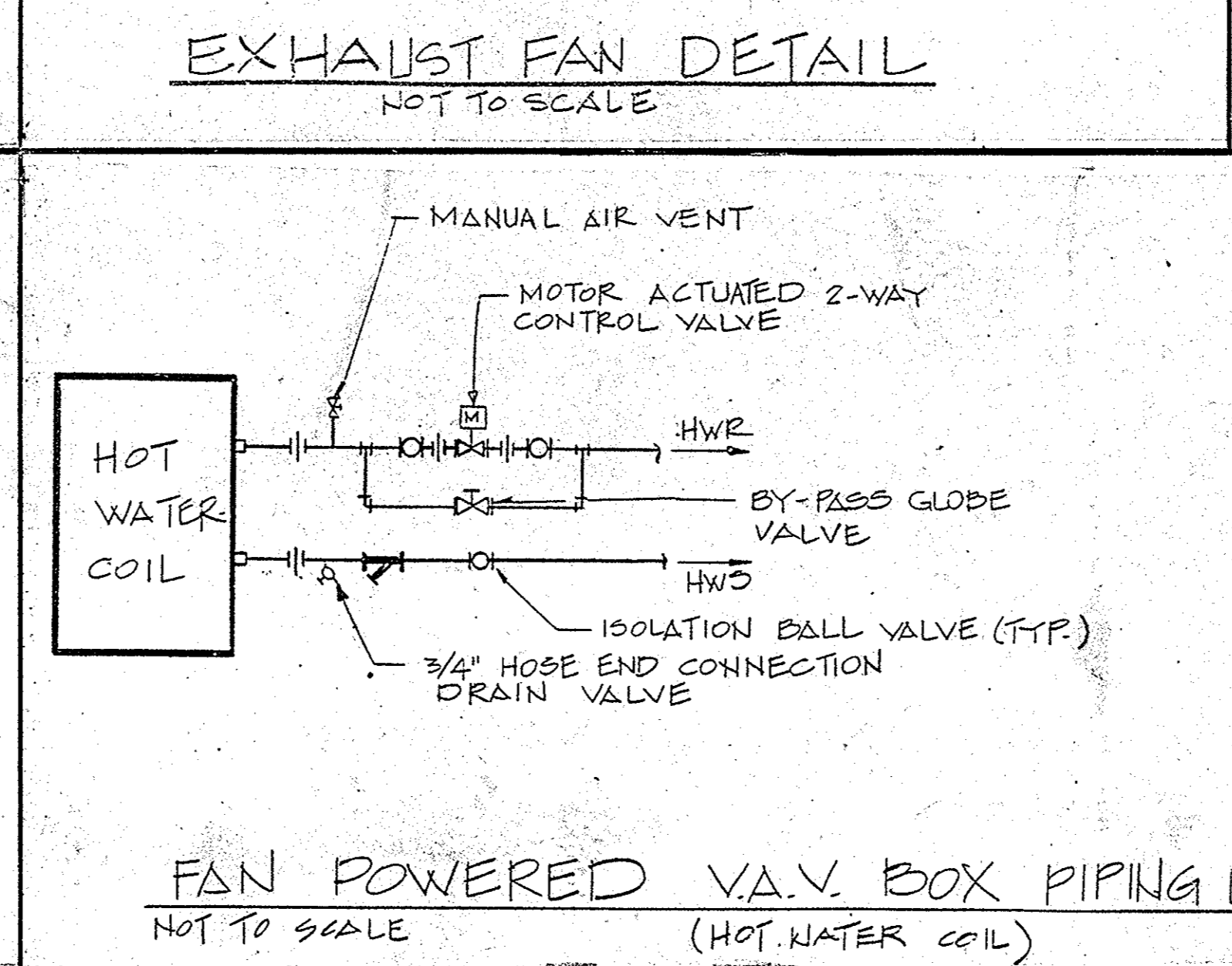
**ROOF RELIEF AIR FAN DETAIL**  
NOT TO SCALE



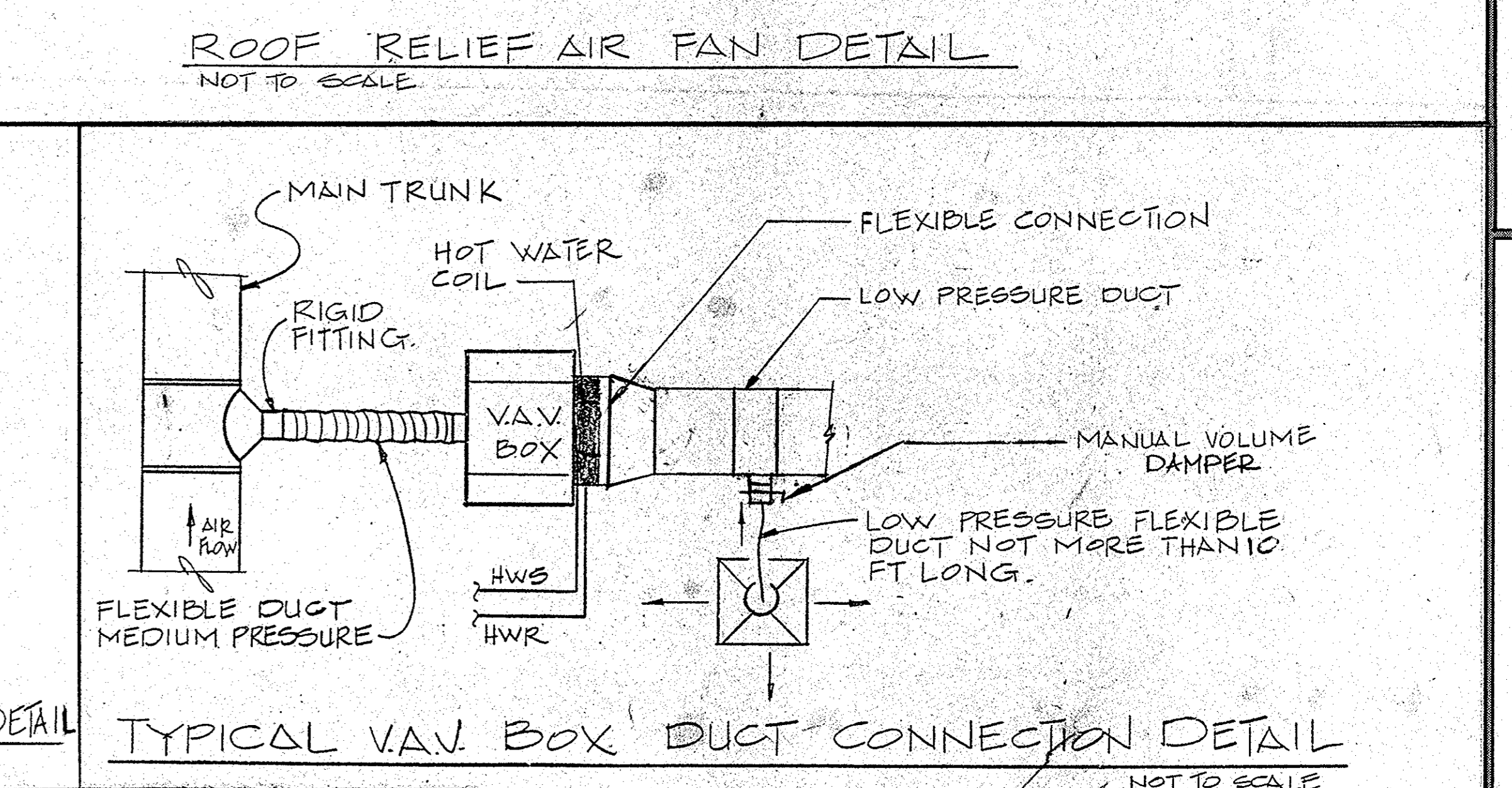
**TYPICAL HOT WATER UNIT HEATER**  
NOT TO SCALE



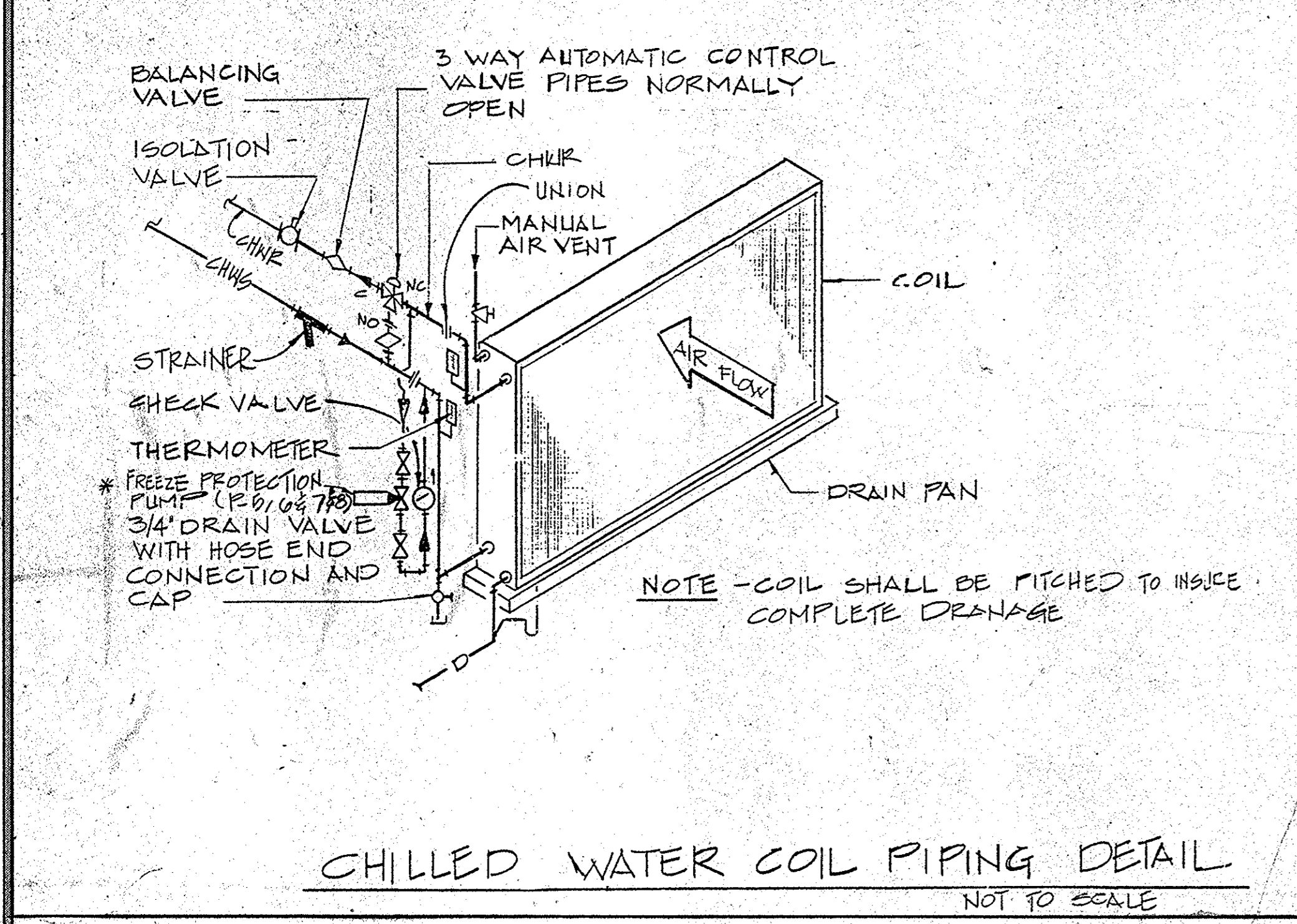
**PROPELLER EXHAUST FAN DETAIL**  
NOT TO SCALE



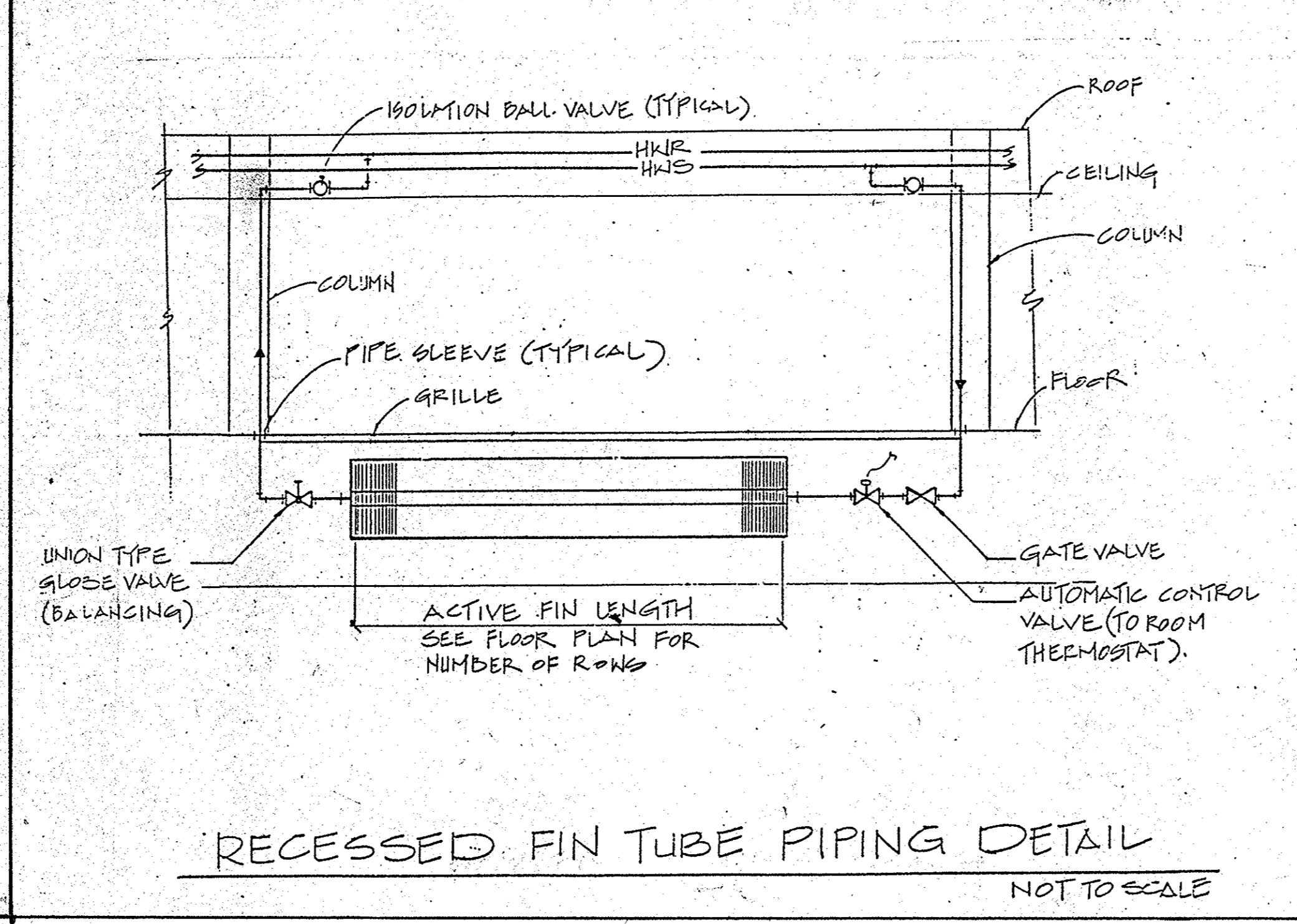
**FAN POWERED V.A.V. BOX PIPING DETAIL**  
NOT TO SCALE (HOT WATER COIL)



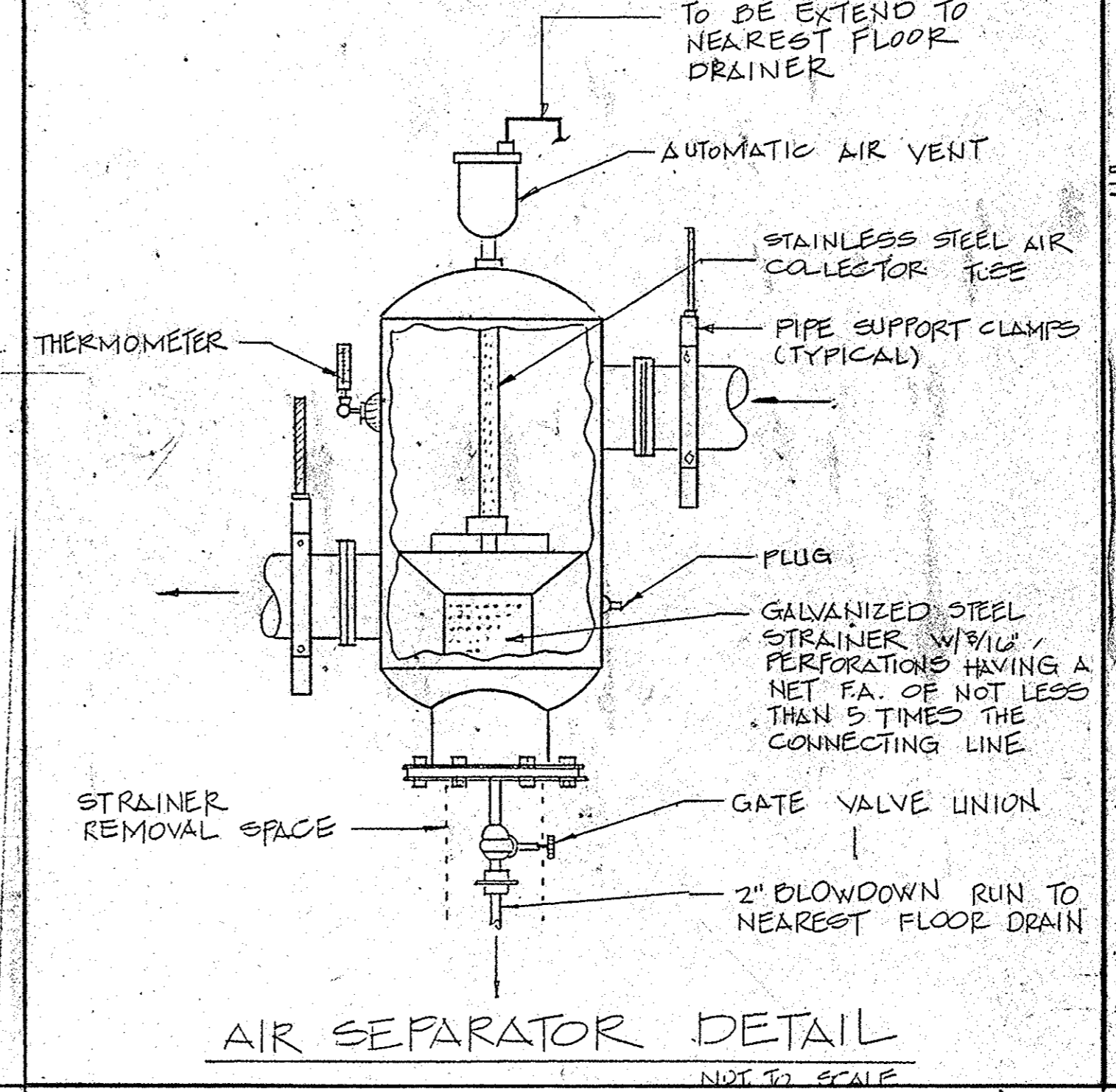
**TYPICAL V.A.V. BOX DUCT CONNECTION DETAIL**  
NOT TO SCALE



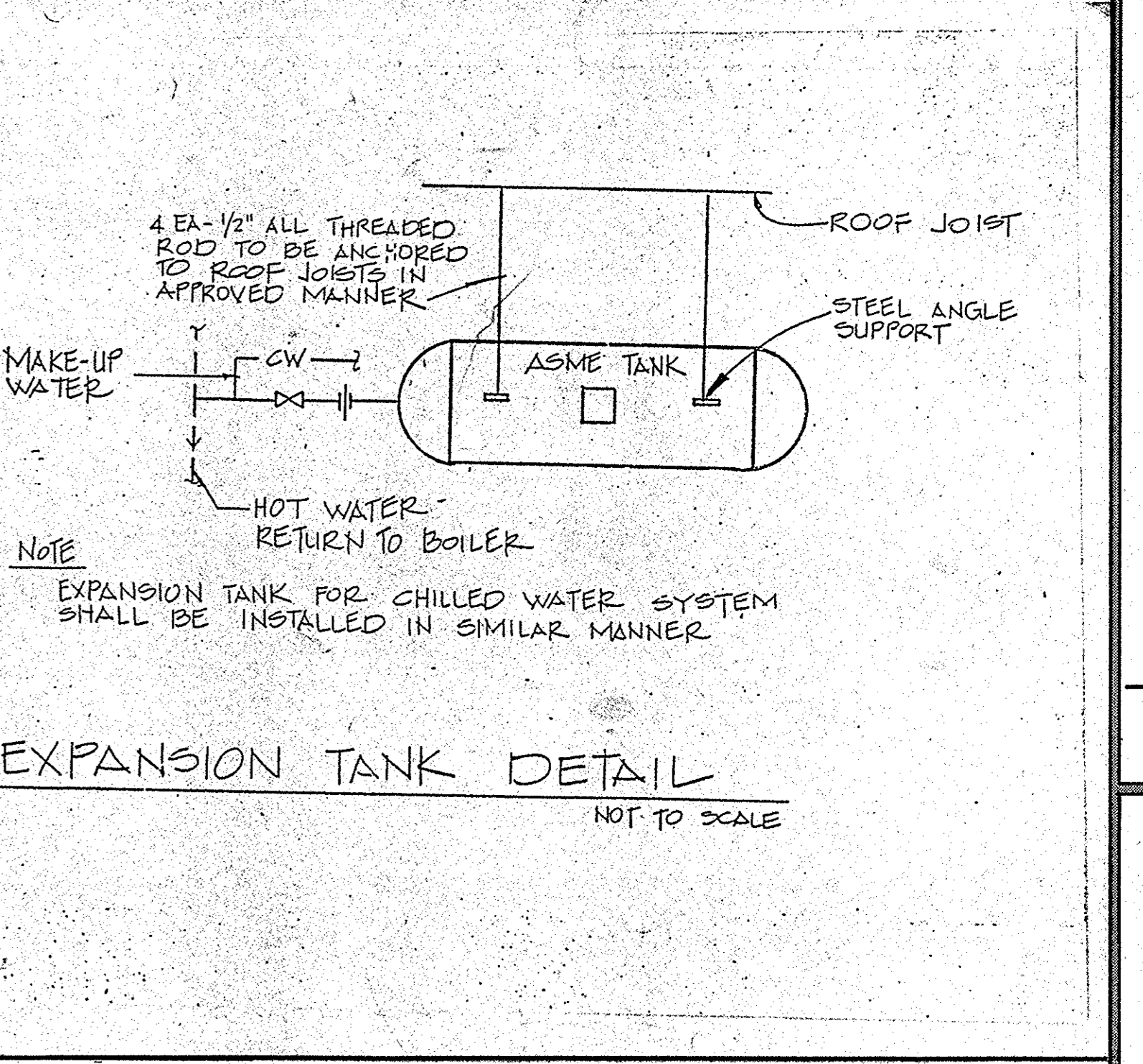
**CHILLED WATER COIL PIPING DETAIL**  
NOT TO SCALE



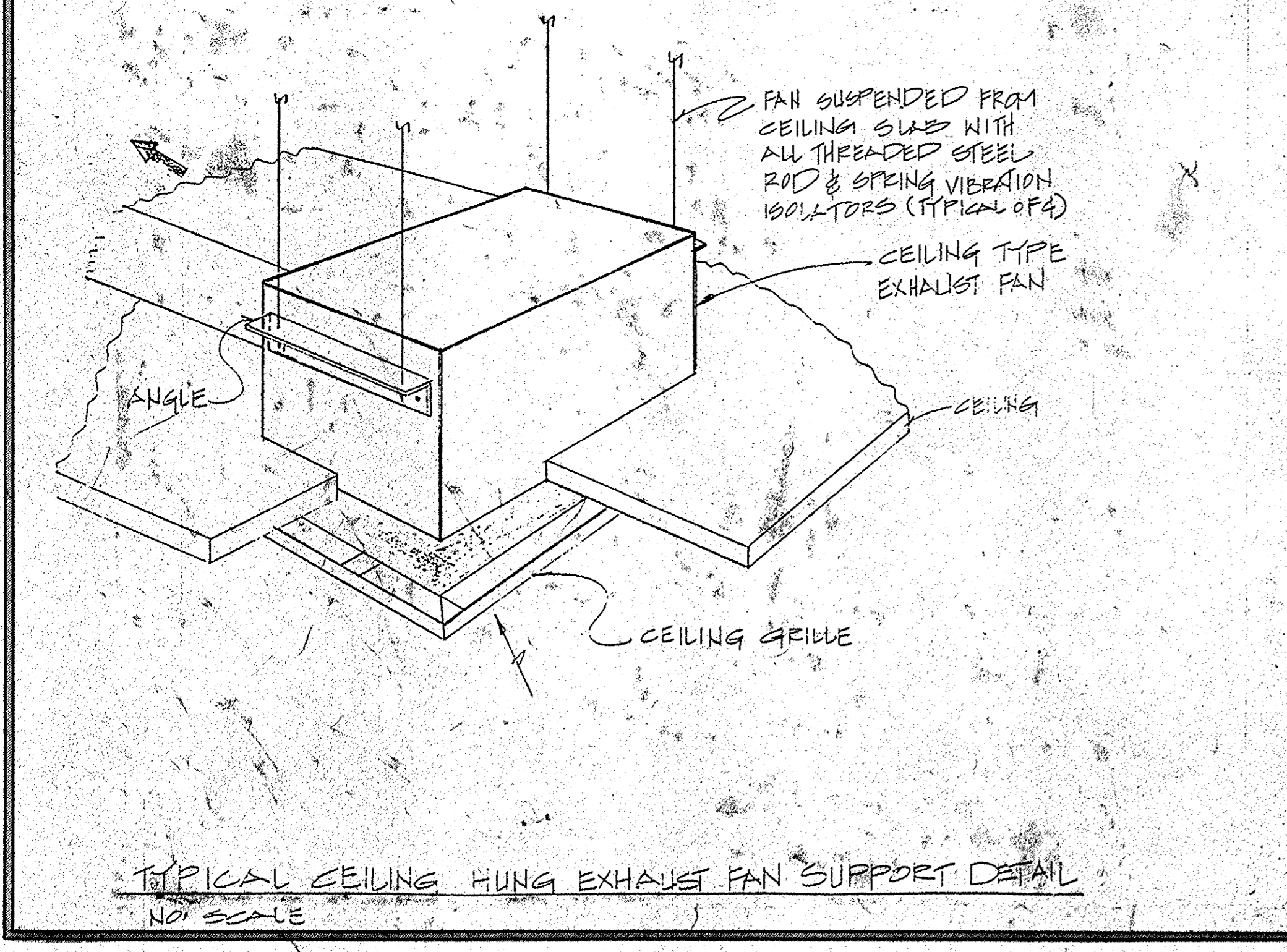
**RECESSED FIN TUBE PIPING DETAIL**  
NOT TO SCALE



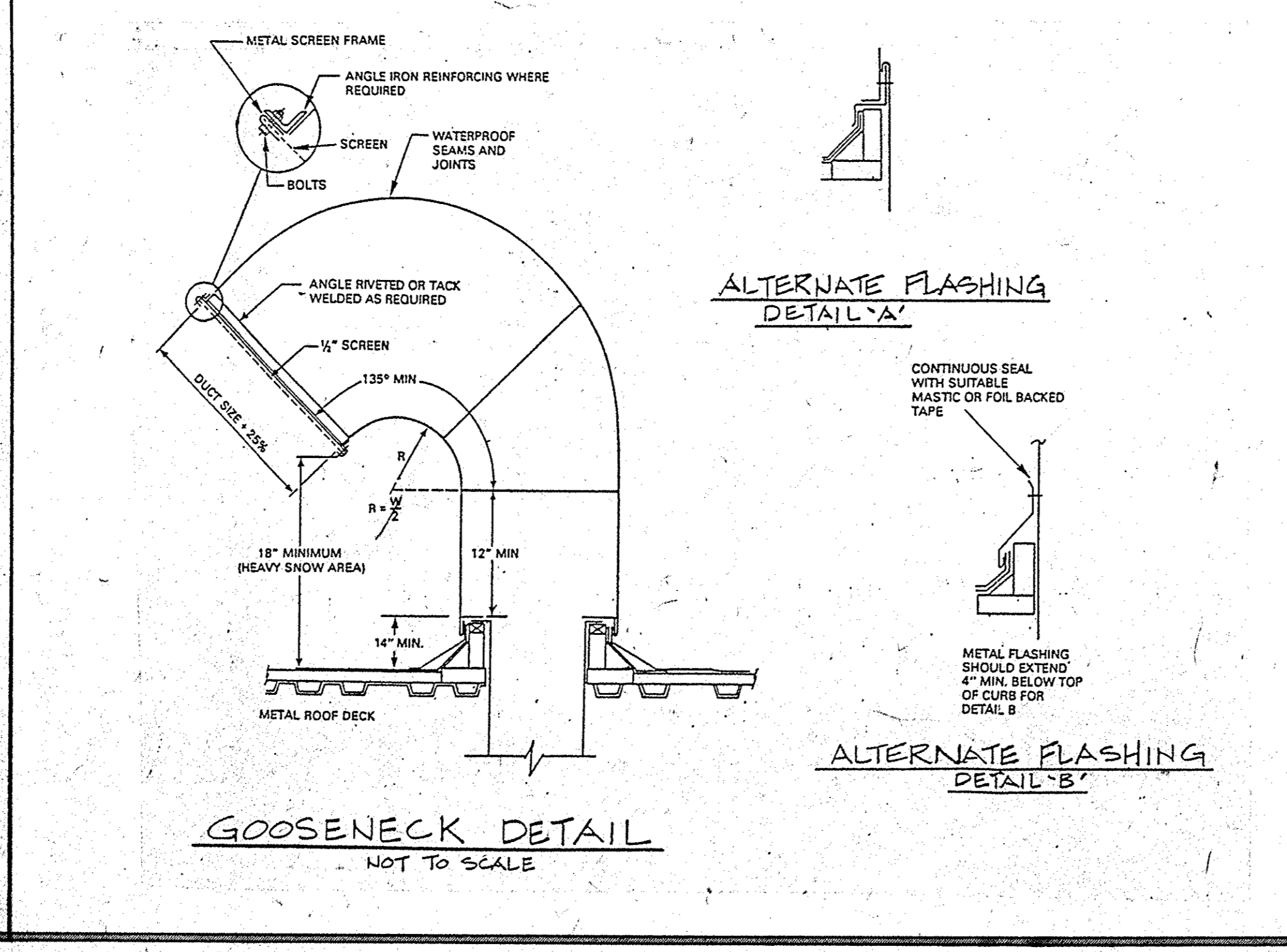
**AIR SEPARATOR DETAIL**  
NOT TO SCALE



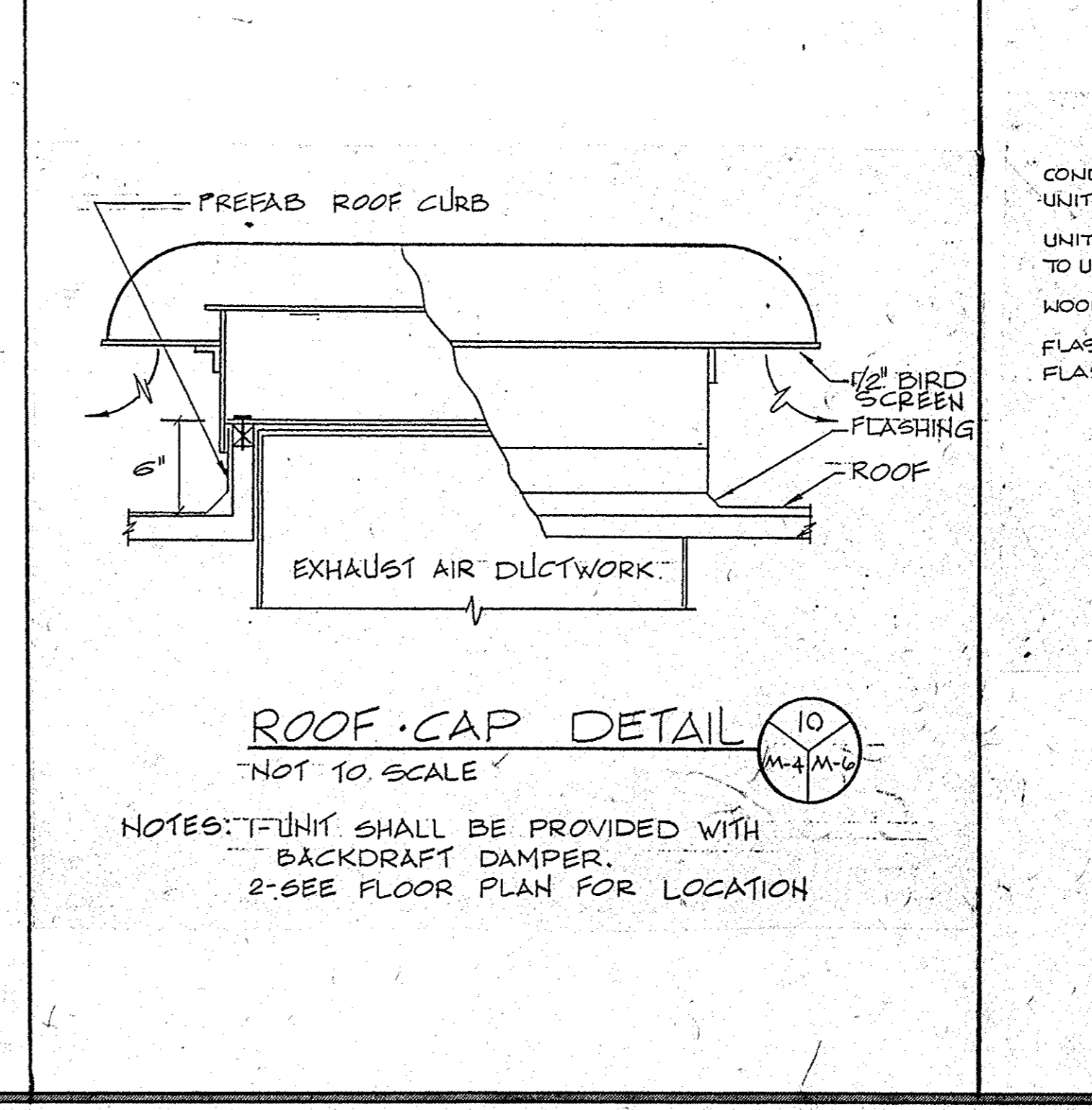
**EXPANSION TANK DETAIL**  
NOT TO SCALE



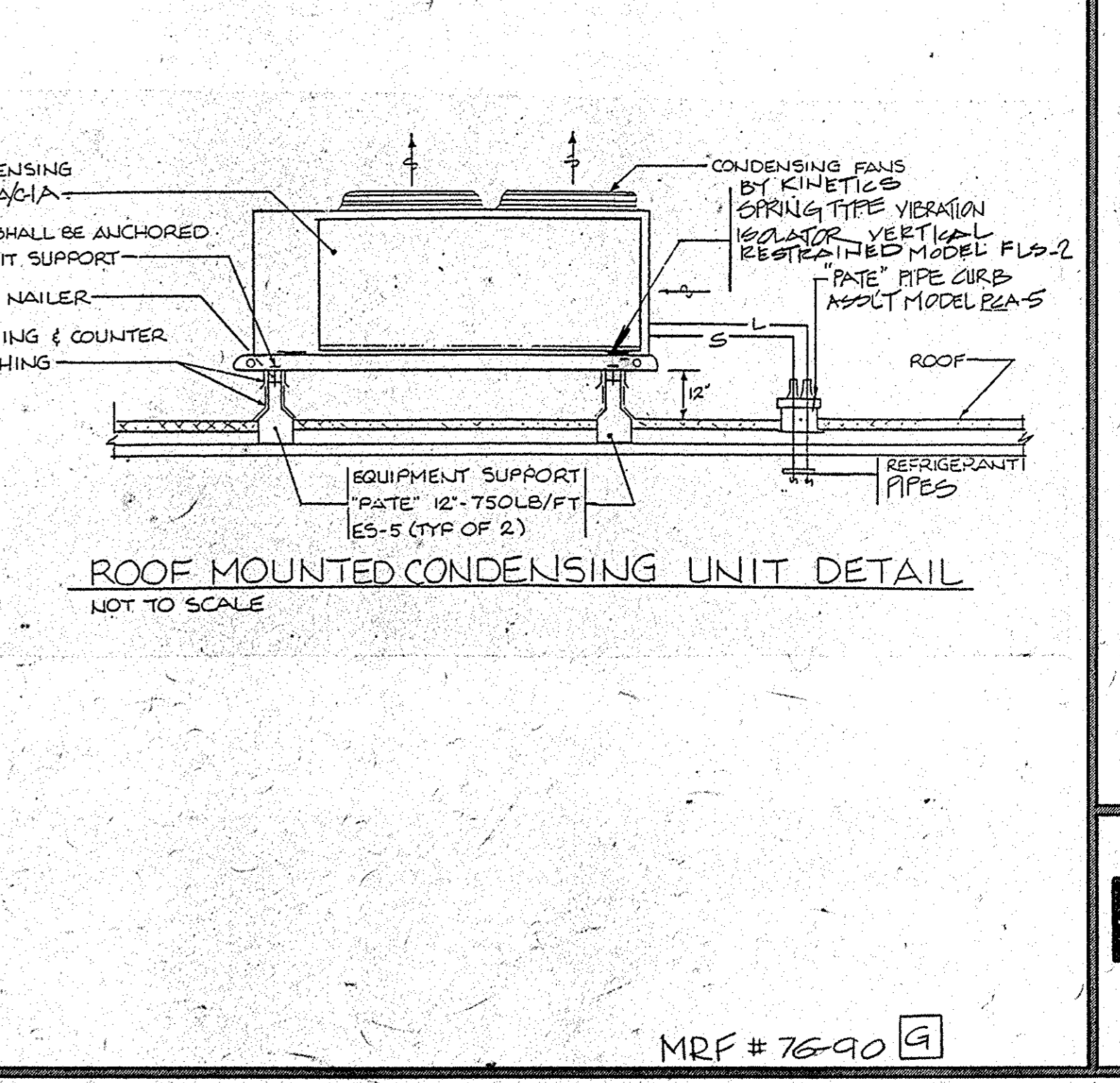
**TYPICAL CEILING HUNG EXHAUST FAN SUPPORT DETAIL**  
NOT TO SCALE



**GOOSENECK DETAIL**  
NOT TO SCALE



**ROOF CAP DETAIL**  
NOT TO SCALE



**ROOF MOUNTED CONDENSING UNIT DETAIL**  
NOT TO SCALE



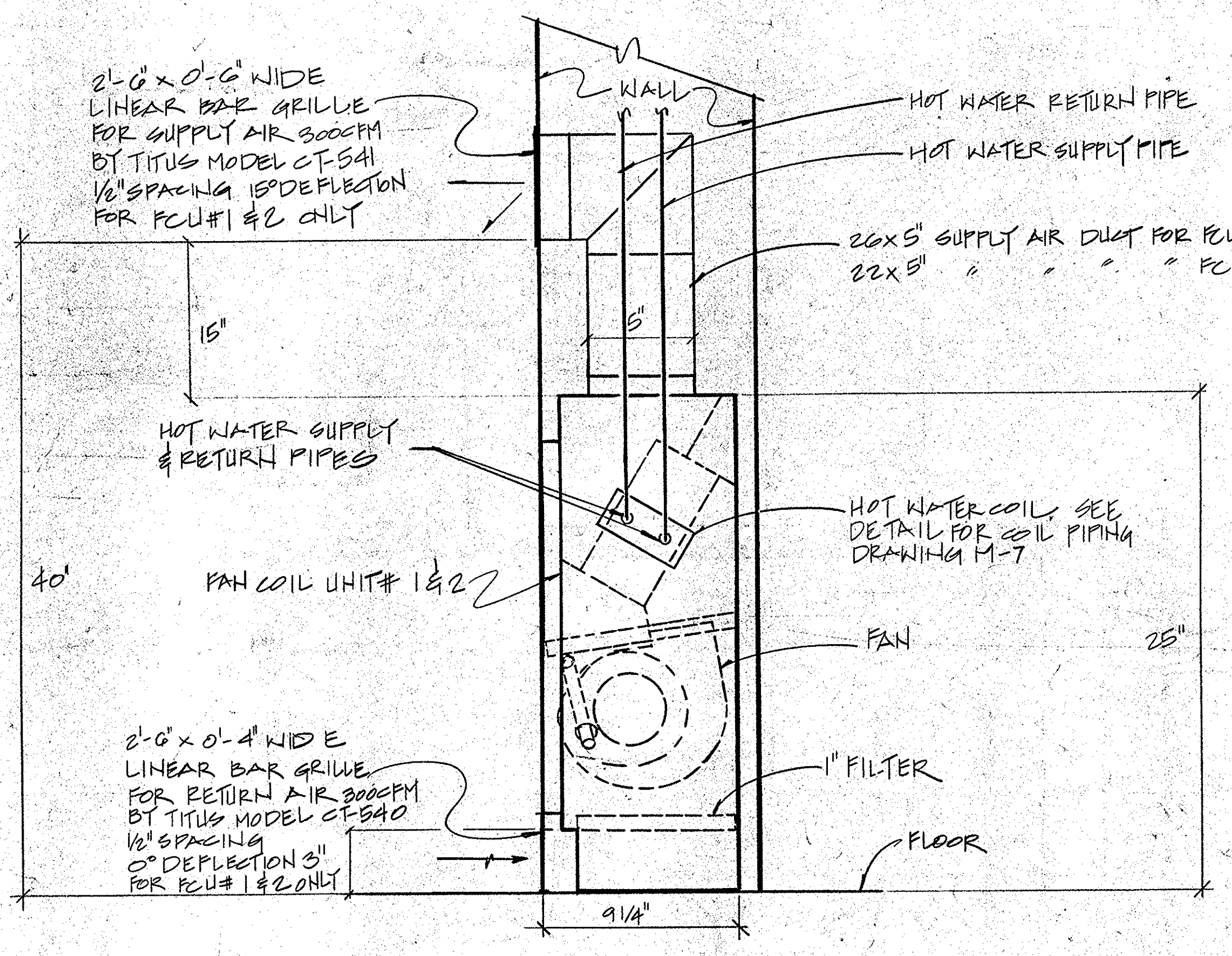
UNIT NO	PRIMARY AIR CFM		FAN		INLET		SOUND POWER OCTAVE BANDS							HOT WATER COIL			FAN		BASIS OF DESIGN	REMARKS
	MINIMUM	MAXIMUM	CFM	ESP	SIZE	SP	2	3	4	5	6	7	EAT °F	MBH	GPM	PD	HP	VOLTAGE		
					INCH	INCH														
VB-64	40	260	340	0.40	8"φ	1.0"	59	55	47	43	40	40	180°	16.0	1.6	6.0	1/10	277V-1φ	11US QFPC-3000-2	
VB-65	50	290	400	0.40	8"φ	1.0"	59	55	47	43	40	40		10.0	1.0		1/10	277V-1φ	11US QFPC-3000-2	
VB-66	90	630	925	0.40	12"φ	1.0"	59	59	55	47	46	48		38.0	3.8		1/2	277V-1φ	11US QFPC-3000-6	
VB-67	60	420	610	0.40	10"φ	1.0"	59	55	48	44	44	46		25.0	2.5		1/4	277V-1φ	11US QFPC-3000-4	
VB-68	110	750	1100	0.40	14"φ	1.0"	62	57	50	45	41	40		26.0	2.6		3/4	277V-1φ	11US QFPC-3000-7	
VB-69	90	580	850	0.40	12"φ	1.0"	59	59	55	47	46	48		22.0	2.2		1/2	277V-1φ	11US QFPC-3000-6	
VB-70	80	220	300	0.40	8"φ	1.0"	59	55	47	43	40	40		13.0	1.3		1/10	277V-1φ	11US QFPC-3000-2	
VB-71	80	550	800	0.40	10"φ	1.0"	59	55	48	44	44	46		33.0	3.3		1/4	277V-1φ	11US QFPC-3000-4	
VB-72	40	250	350	0.40	8"φ	1.0"	59	55	47	43	40	40		15.0	1.5		1/10	277V-1φ	11US QFPC-3000-2	
VB-73	70	450	650	0.40	10"φ	1.0"	59	55	48	44	44	46		27.0	2.7		1/4	277V-1φ	11US QFPC-3000-4	
VB-74	100	750	920	0.40	12"φ	1.0"	59	59	55	47	46	48		37.0	3.7		1/2	277V-1φ	11US QFPC-3000-6	
VB-75	100	680	870	0.40	12"φ	1.0"	59	59	55	47	46	48		36.0	3.6		1/2	277V-1φ	11US QFPC-3000-6	
VB-76	50	350	500	0.40	8"φ	1.0"	59	55	47	43	40	40		13.0	1.3		1/10	277V-1φ	11US QFPC-3000-2	
VB-77	140	940	1290	0.40	14"φ	1.0"	62	57	50	45	41	40		53.0	5.3		3/4	277V-1φ	11US QFPC-3000-7	
VB-78	140	940	1290	0.40	14"φ	1.0"	62	57	50	45	41	40		53.0	5.3		3/4	277V-1φ	11US QFPC-3000-7	
VB-79	120	780	1050	0.40	14"φ	1.0"	62	57	50	45	41	40		49.0	4.9		3/4	277V-1φ	11US QFPC-3000-7	

UNIT NO	CFM	GPM	PD FT. H2O	EWT °F	TOTAL HEATING CAPACITY BTU/HR	MOTOR DATA		ELECT DATA		AREA SERVED	MANUFACTURER AND MODEL NO	REMARKS
						RPM	WATTS	VOLTS/PH/Hz				
FCU-1&2	300	3.0	7.0	180	28,000	1200	80	115/1/60		VESTIBULE	INTERNATIONAL FHT-03	PROVIDE W/ BUILT-IN THERMOSTAT
FCU-3	200	2.0	3.0	180	19,700	1200	80	115/1/60		CORRIDOR NEXT TO MULTI-PURK	INTERNATIONAL FHT-02	

MAXIMUM GPM	PD FT. H2O	STRAINER FREE AREA & WEIGHT	MANUFACTURER & MODEL NO
AS-2 230 GPM	4.0	100 SR IN. 200 LBS	AMTROL INC. (HOT WATER) MODEL 5AS

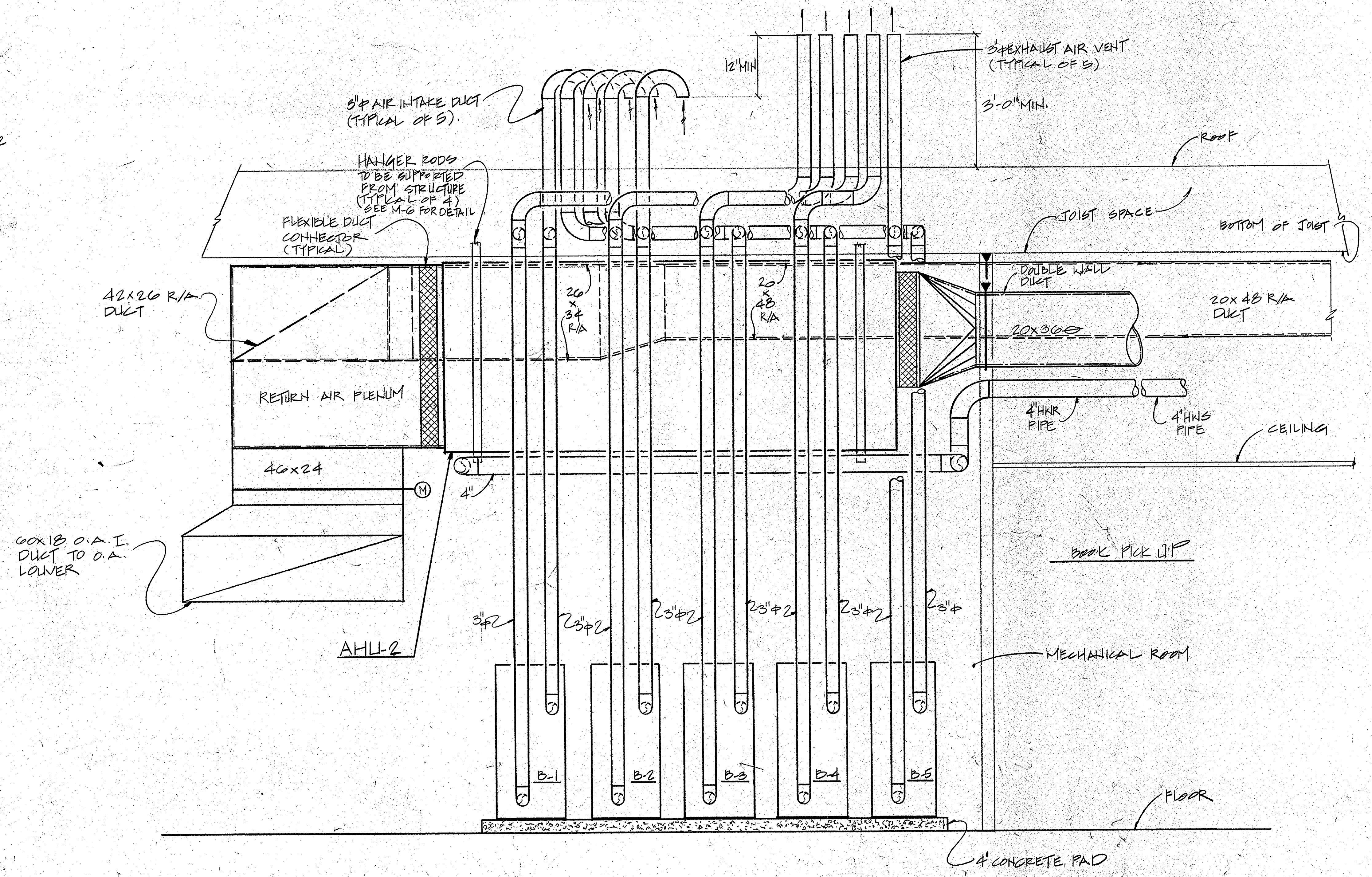
CAPACITY GALLONS	DIMENSIONS INCHES	MANUFACTURER & MODEL NO
ET-2 (158.0)	30" DIA. & 5.5" LENGTH	AMTROL - EXTEOL SIZE 600L HORIZONTAL

- NOTES:
1. PROVIDE A PULSED DISCONNECT SWITCH ON ALL VAV BOXES.
  2. VAV BOXES HAVE DDC CONTROLS WITH PID CONTROL LOGIC.
  3. SOUND POWER "IS FOR RADIATED NOISE"
  4. PROVIDE INLET FILTERS ON ALL BOXES DURING CONSTRUCTION PHASE. REMOVE FILTERS AT COMPLETION OF PROJECT (AFTER FINAL INSPECTION)
  5. PROVIDE VARIABLE FAN SPEED CONTROL (SCR OR MULTIPLE SPEED SELECTION)



RECESSED FAN COIL UNIT DETAIL  
NOT TO SCALE (FOR HEATING UNITS ONLY)

- NOTES:
- 1) SUPPLY: 2'-0" x 0'-6" WIDE 150 CFM 15° DEFLECTION
  - 2) RETURN: 2'-0" x 0'-4" WIDE 150 CFM 0° DEFLECTION



SECTION "Y-Y" MECHANICAL ROOM  
SCALE: 3/4" = 1'-0" DRAWING M-3

MRFA 76-90

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# GENERAL NOTES

- NO CONTRACTOR OR SUBCONTRACTOR SHALL BEGIN ANY WORK UNTIL HE HAS REVIEWED THE SPECIFICATIONS IN CONJUNCTION WITH THE DRAWINGS. THE SPECIFICATIONS CONTAIN INFORMATION NOT SHOWN ON THE DRAWINGS. EACH CONTRACTOR OR SUBCONTRACTOR SHALL HAVE IN HIS POSSESSION AT THE TIME OF WORK AT LEAST THOSE SECTIONS OF THE SPECIFICATIONS AND ALL CONSTRUCTION STANDARDS (ASME, ASHRAE, SMACNA, ETC.) THAT PERTAIN TO HIS WORK.
- THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL, PLUMBING, ELECTRICAL AND ARCHITECTURAL WORK. MECHANICAL AND PLUMBING PIPING AS WELL AS ELECTRICAL CONDUIT LOCATIONS ARE DIAGRAMMATIC. THE ACTUAL POSITION OF THE PIPING AND CONDUIT SHALL BE COORDINATED WITH THE DUCTWORK.
- ALL DUCTWORK SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS. CEILING CLEARANCES, PRIOR TO DUCT FABRICATION SHALL BE VERIFIED WITH ACTUAL STRUCTURE AND TRADES WORK. REVISIONS TO DUCTWORK WILL BE MADE AS REQUIRED PER ABOVE AT NO ADDITIONAL COST TO THE GOVERNMENT. REVISIONS SHALL BE APPROVED BY THE CONTRACTING OFFICER BEFORE FABRICATION. COORDINATED SHOP DRAWINGS ARE REQUIRED (SEE SPECIFICATIONS).
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF LIGHTS, DIFFUSERS, REGISTERS, AND GRILLES; POSITION THE ASSOCIATED DROPS AND RUNOUTS ACCORDING TO THESE LOCATIONS.
- ALL PRIMARY DUCTWORK (DUCTWORK FROM AIR HANDLING UNITS TO VARIABLE AIR VOLUME BOXES SHALL BE DESIGNED AND CONSTRUCTED AT 6 INCHES WATER GAUGE PRESSURE CLASS.
- ALL SECONDARY SUPPLY AND ALL RETURN AIR DUCTWORK (DUCTWORK DOWNSTREAM OF VAV BOXES) SHALL BE DESIGNED AND CONSTRUCTED AT A MINIMUM OF 2-INCHES WATER GAUGE PRESSURE CLASS.
- ALL EXHAUST AIR DUCTWORK SHALL BE DESIGNED AND CONSTRUCTED AT A MINIMUM OF 1-INCH WATER GAUGE PRESSURE CLASS.
- ALL DUCT DIMENSIONS SHOWN ARE INSIDE DIMENSIONS.
- FLEX DUCT LENGTHS SHALL NOT EXCEED TEN FEET.
- ALL MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES.
- SPIN-IN FITTINGS FOR SECONDARY SUPPLY SERVICE SHALL HAVE 90° SCOOPS AND VOLUME DAMPERS. DELETE SCOOPS ON THOSE FOR RETURN AIR SERVICE.
- ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROVIDED WITH A U/L APPROVED FIRE DAMPER. PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS, WITH WIDTHS OF 18 INCHES OR NOT LESS THAN THE DUCT WIDTH MINUS 2 INCHES, AND LENGTHS EQUAL TO THE DOOR WIDTH BUT NOT LESS THAN 12 INCHES. DAMPERS AND INSTALLATION SHALL COMPLY WITH UL555.
- CONTRACTOR SHALL PROVIDE MESH WIRE SCREEN TO OUTSIDE AIR INTAKE LOUVERS AND DISCHARGE POINTS.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL CHILLED/HOT WATER PIPES UP TO 2-1/2 INCHES IN DIAMETER SHALL BE TYPE "M" COPPER WITH SOLDER JOINTS. PIPES 3 INCHES IN DIAMETER AND LARGER SHALL BE SCHEDULE 40 STEEL.
- ALL PIPE PENETRATIONS THROUGH FLOORS OR WALLS SHALL BE CAULKED AND SEALED. THE CONTRACTOR SHALL NOT CUT STRUCTURAL COMPONENTS WITHOUT APPROVAL FROM THE ARCHITECT.
- ALL OF THE AIR HANDLING UNITS ARE PROVIDED WITH SMOKE DETECTORS FOR AUTOMATIC SHUTDOWN.
- COORDINATE THE LOCATION OF CEILING DIFFUSERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

# SYMBOLS

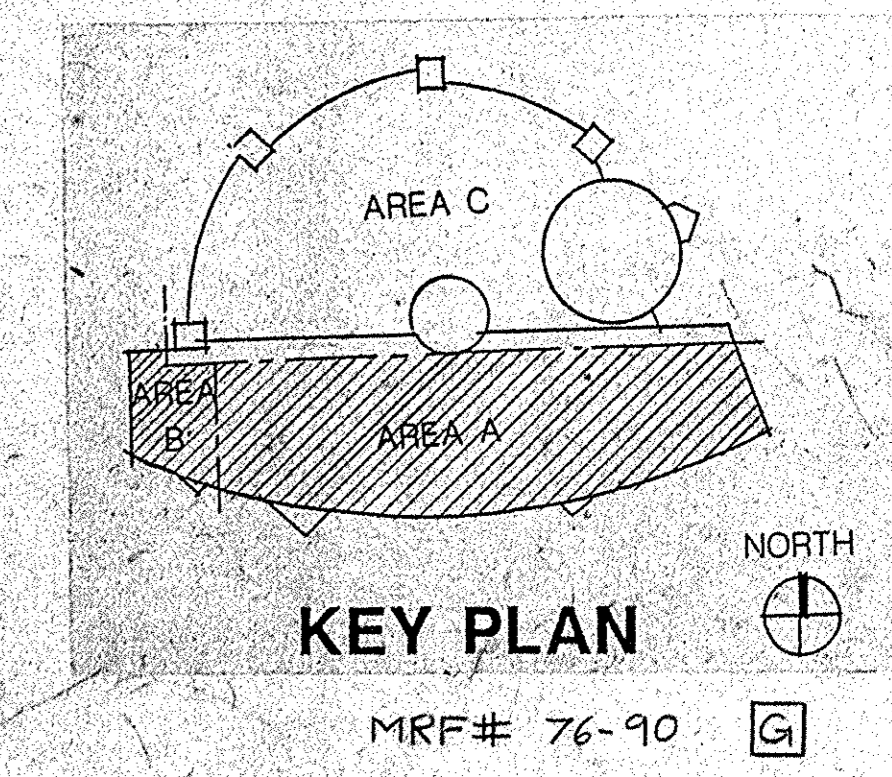
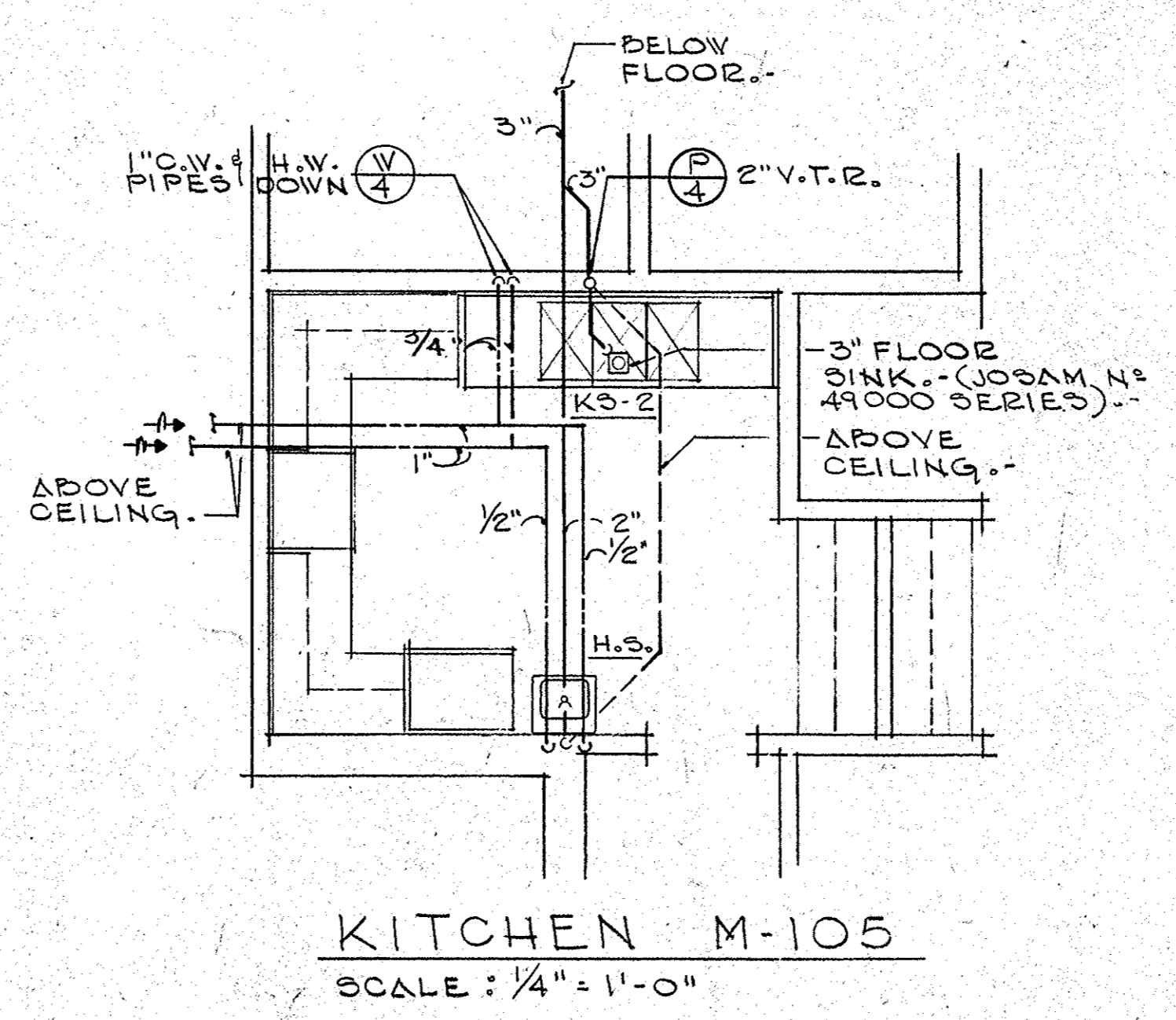
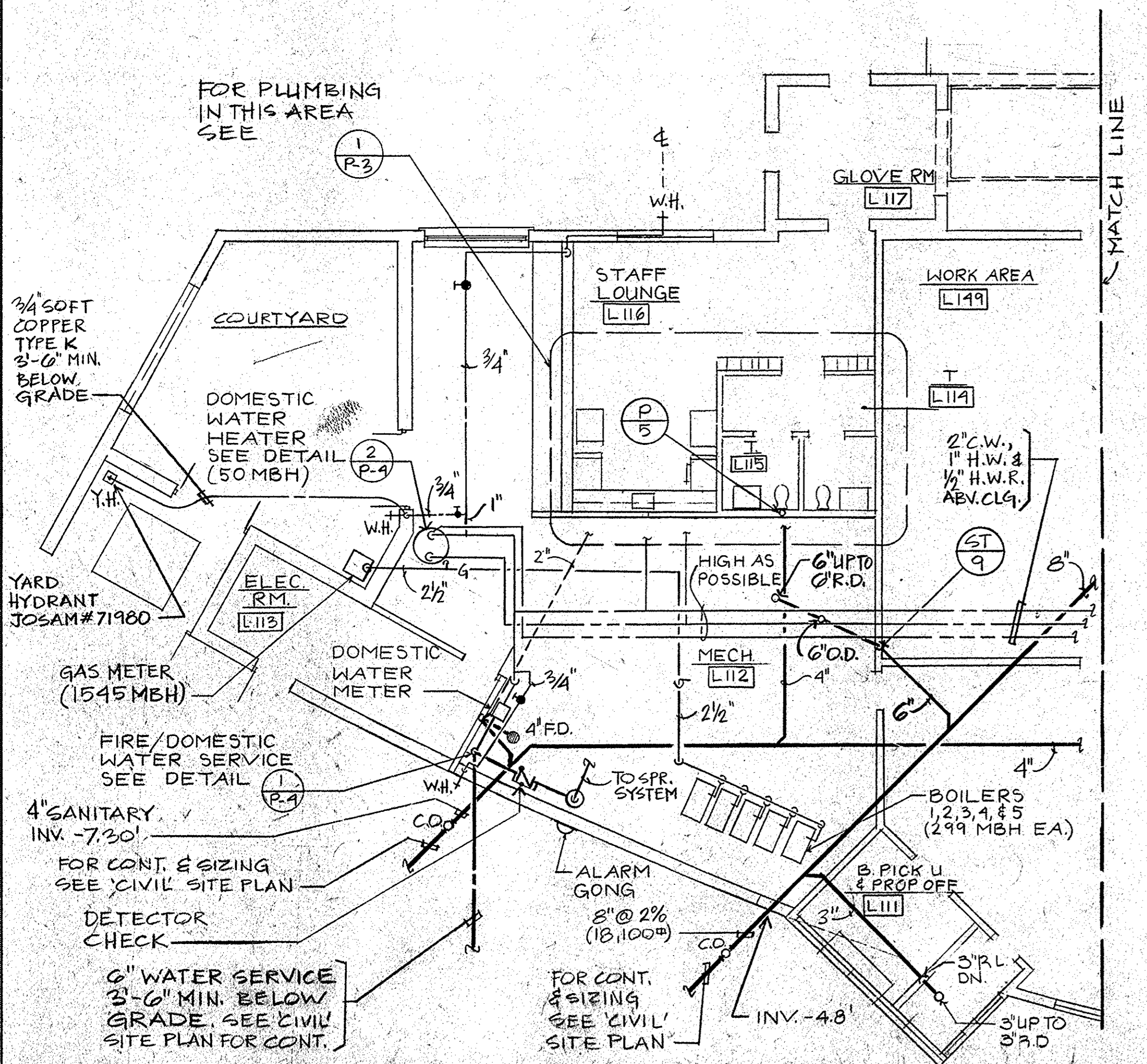
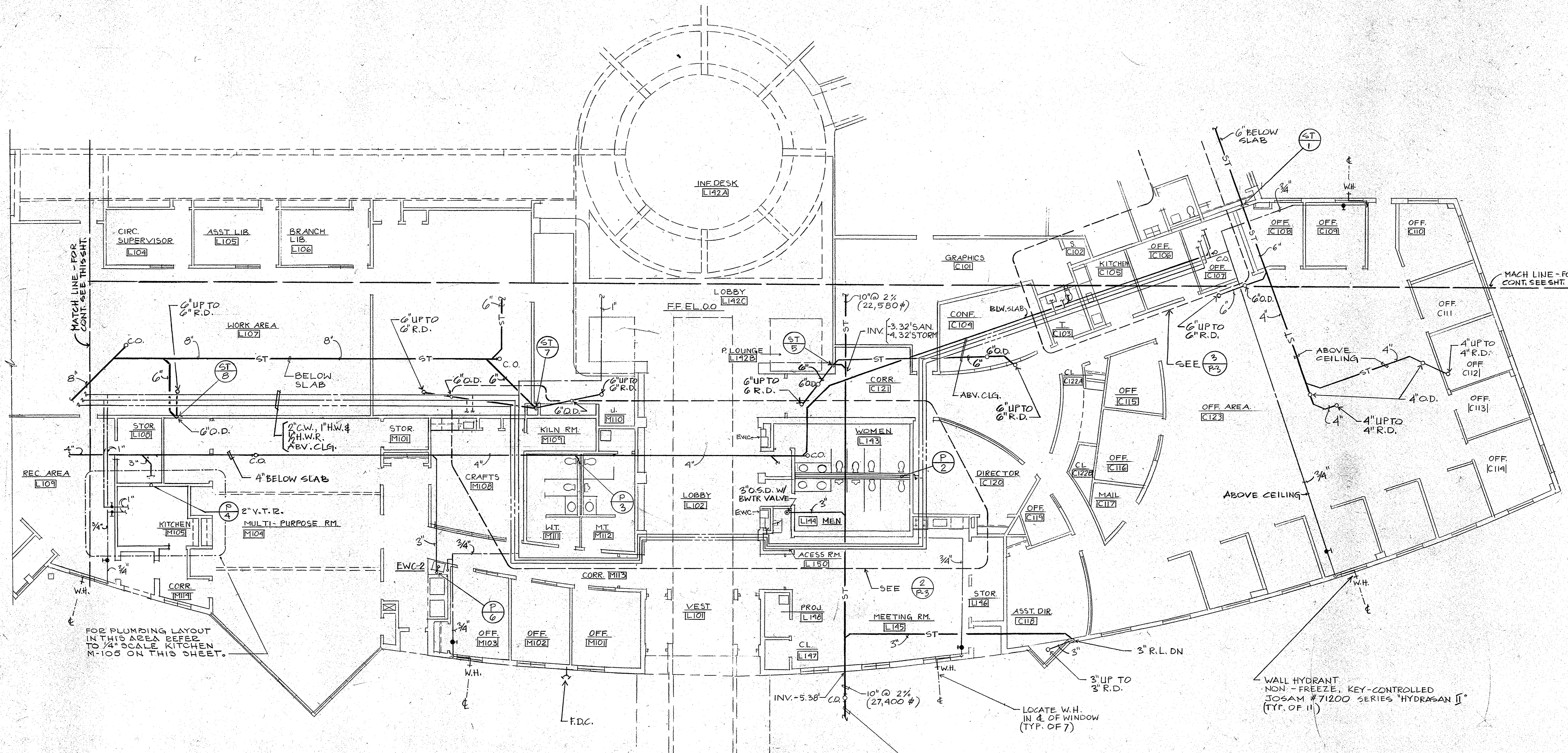
	HWS	HOT WATER SUPPLY		SPLITTING DAMPER WITH CONTROL ROD
	HWR	HOT WATER RETURN		MOTORIZED VOLUME CONTROL DAMPER
	CWS	CHILLED WATER SUPPLY		FLEXIBLE DUCT CONNECTION
	CWR	CHILLED WATER RETURN		SUPPLY DIFFUSER, LETTER INDICATES TYPE, ARROW INDICATES THROW
	CW	COLD WATER (DOMESTIC)		RETURN REGISTER, LETTER INDICATES TYPE
	D	DRAIN		PROPELLER FAN
		PITCH DOWN IN DIRECTION OF ARROW		THERMOSTAT
		DIRECTION OF FLOW		NIGHT SETBACK THERMOSTAT
		GATE VALVE		ROUND
		GLOBE VALVE		FLAT OVAL
		CHECK VALVE	A.F.F.	ABOVE FINISHED FLOOR
		PRESSURE REDUCING VALVE	A.P.D.	AIR PRESSURE DROP
		TWO WAY CONTROL VALVE	C.O.	CLEAN OUT
		THREE WAY CONTROL VALVE	C.G.	CEILING GRILLE
		PRESSURE RELIEF VALVE	C.D.	CEILING DIFFUSER
		PIPE ELBOWING DOWN	C.R.	CEILING REGISTER
		PIPE ELBOWING UP	E.F.	EXHAUST FAN
		PIPE TEEING DOWN	E.S.P.	EXTERNAL STATIC PRESSURE
		PIPE TEEING UP	E.W.T.	ENTERING WATER TEMPERATURE
		PIPE LINE CAP	E.A.T.	ENTERING AIR TEMPERATURE
		DUCT (RETURN) ELBOWING DOWN	E.U.H.	ELECTRIC UNIT HEATER
		DUCT (SUPPLY) ELBOWING UP	F.D.	FIRE DAMPER
		DUCT (SUPPLY) TEEING DOWN	F.C.U.	FAN COIL UNIT
		DUCT (RETURN) TEEING UP	F.T.R.	FIN-TUBE RADIATION
		DUCT EXHAUST OR RETURN	G.N.	GOOSENECK
		DUCT SUPPLY	H.P.	HORSE POWER
		TRANSITION OF RECTANGULAR TO FLAT OVAL DUCT	H.W.H.	HOT WATER HEATER
		TRANSITION OF RECTANGULAR TO ROUND DUCT	L.W.T.	LEAVING WATER TEMPERATURE
		DOUBLE WALL FLAT OVAL DUCT	N.C.	NORMALLY CLOSED
		MEDIUM PRESSURE FLEXIBLE DUCT	N.O.	NORMALLY OPEN
		SMOKE DETECTOR	O.A.I.	OUTSIDE AIR INTAKE
		CHANGE IN ELEVATION (R) RISE, (D) DROP	O.E.D.	OPEN END DUCT
		ACOUSTICAL LINING (INSULATION)	P.R.V.	POWER ROOF VENTILATOR
		ELBOW WITH TURNING VANES	P.D.	PRESSURE DROP
		FIRE DAMPER	R/A	RETURN AIR
		VOLUME DAMPER	S.A.	SUPPLY AIR
		RECESSED FAN COIL UNIT WITH BUILT-IN THERMOSTAT	S.P.	STATIC PRESSURE
		UNDER CUT DOOR	S.L.	SOUND LINE
		BALANCING COCK	T.G.	TRANSFER GRILLE
		LOUVERED DOOR	V.B.	VARIABLE AIR VOLUME BOX
			W.G.	WATER GAUGE
			W.R.	WALL REGISTER
			V.D.	VOLUME DAMPER

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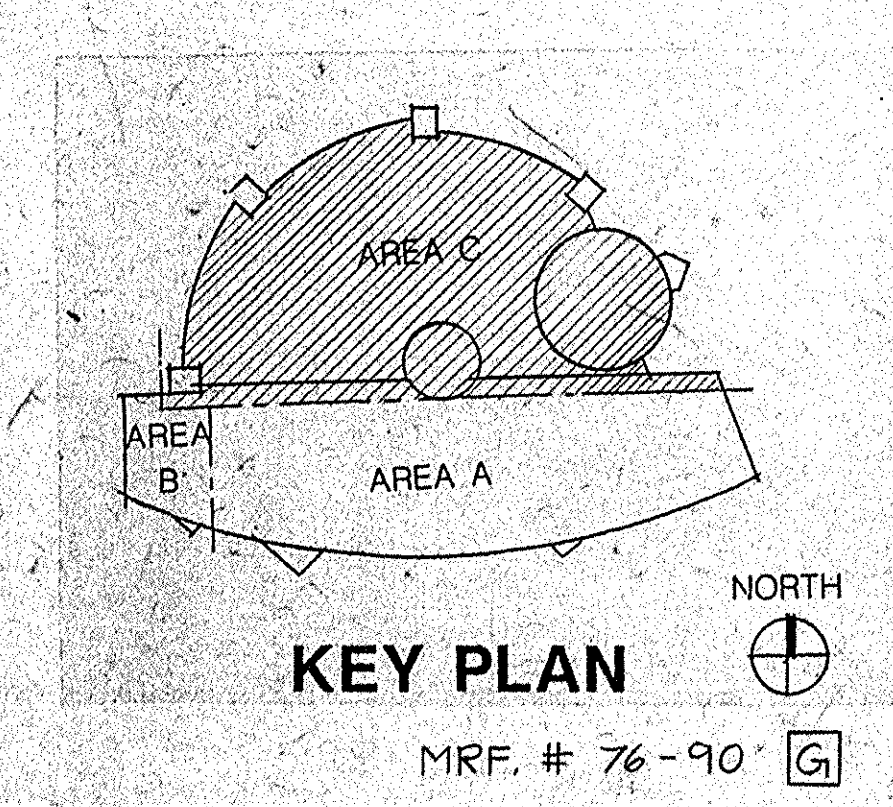
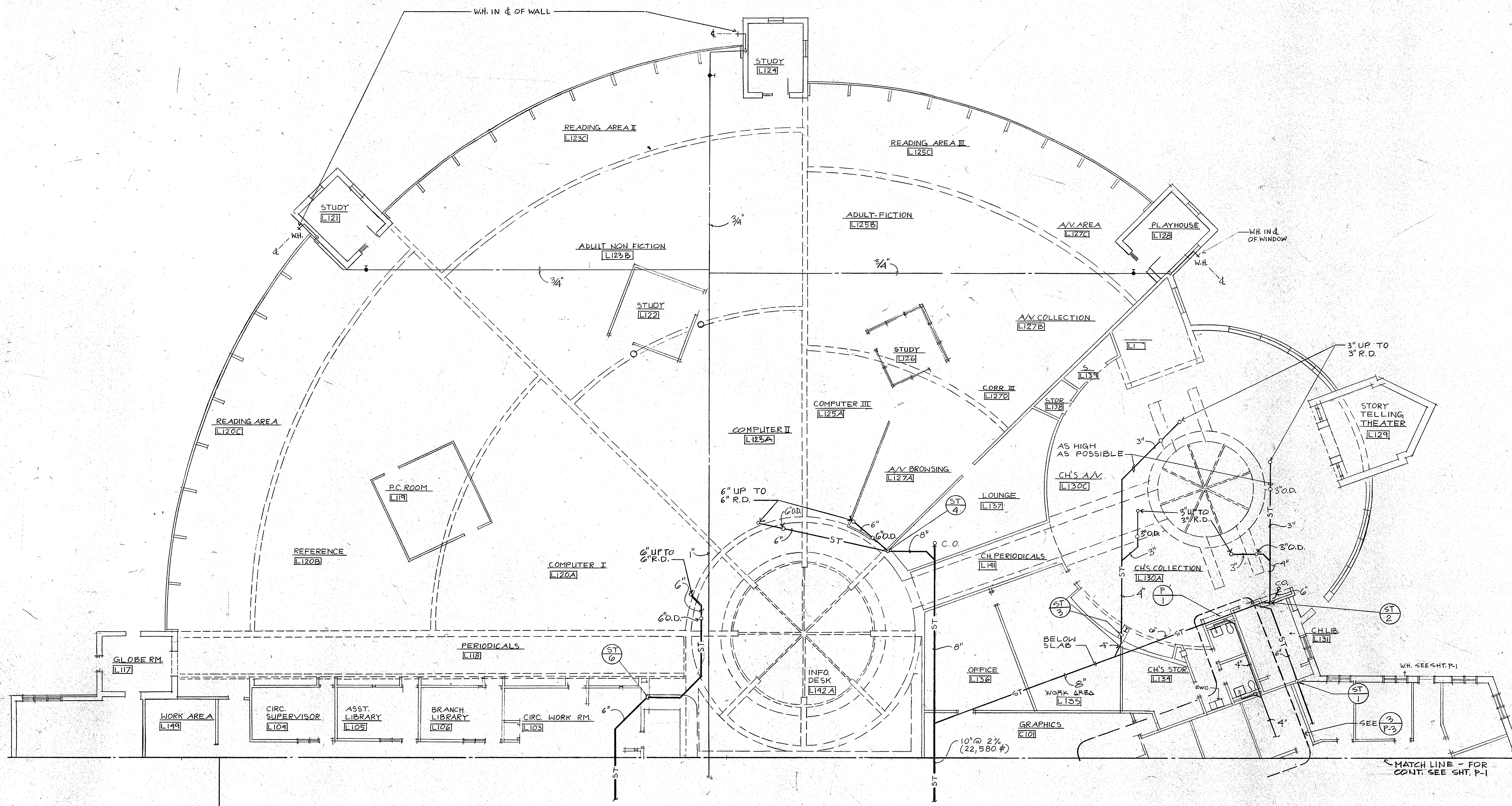


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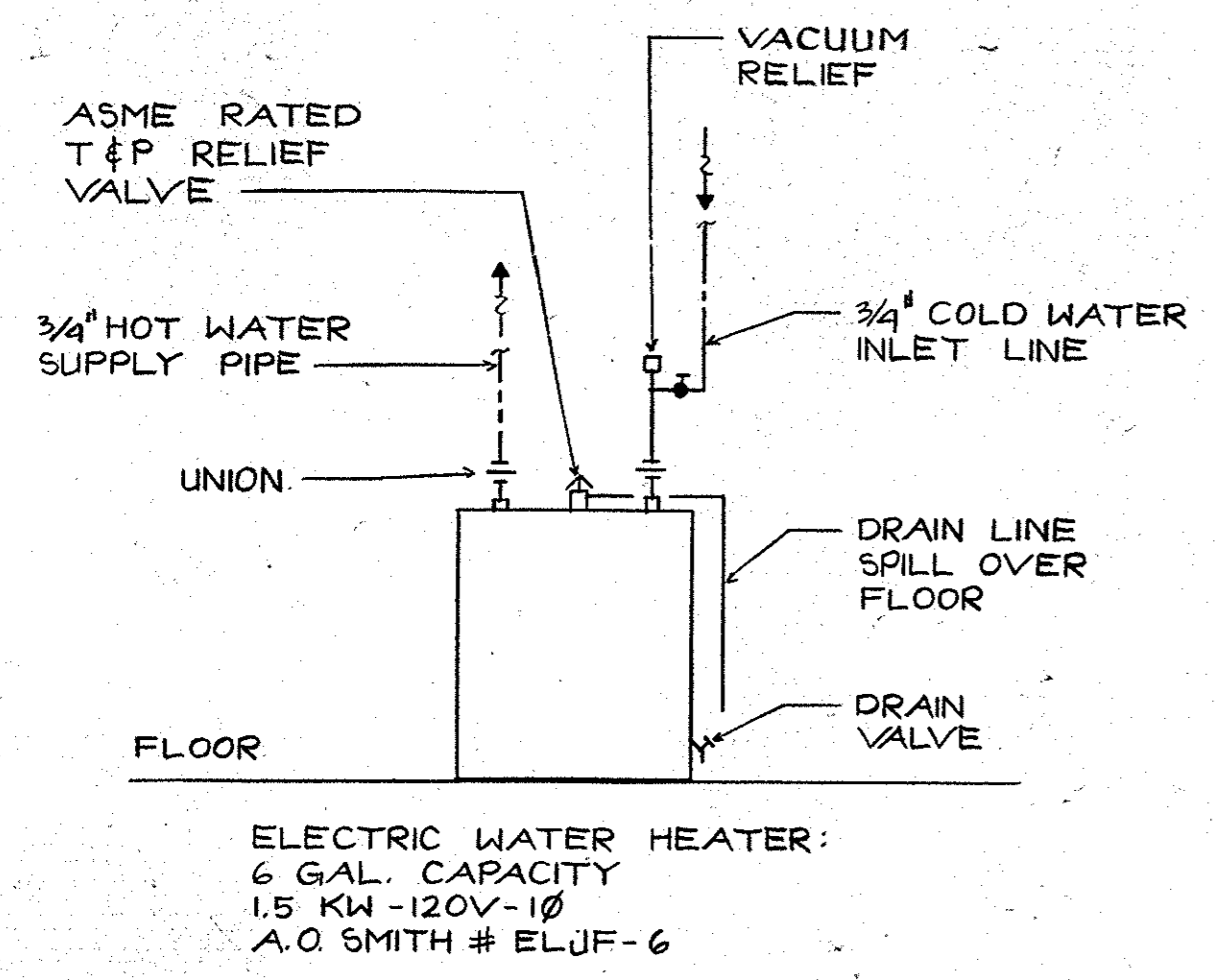
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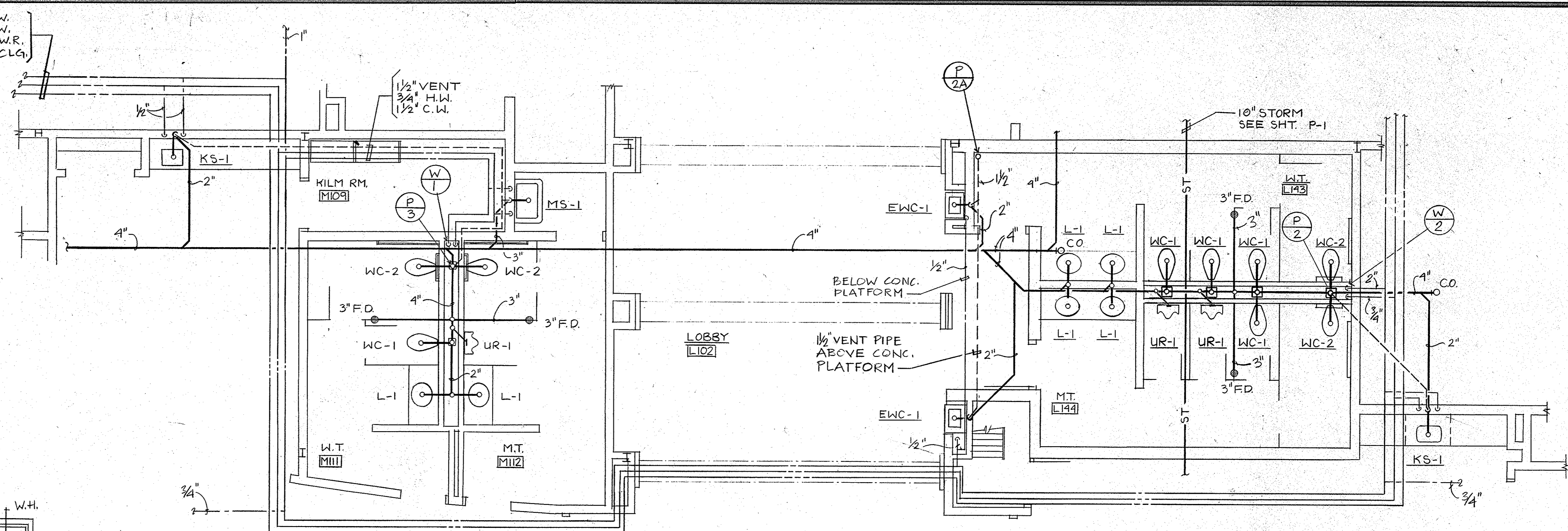
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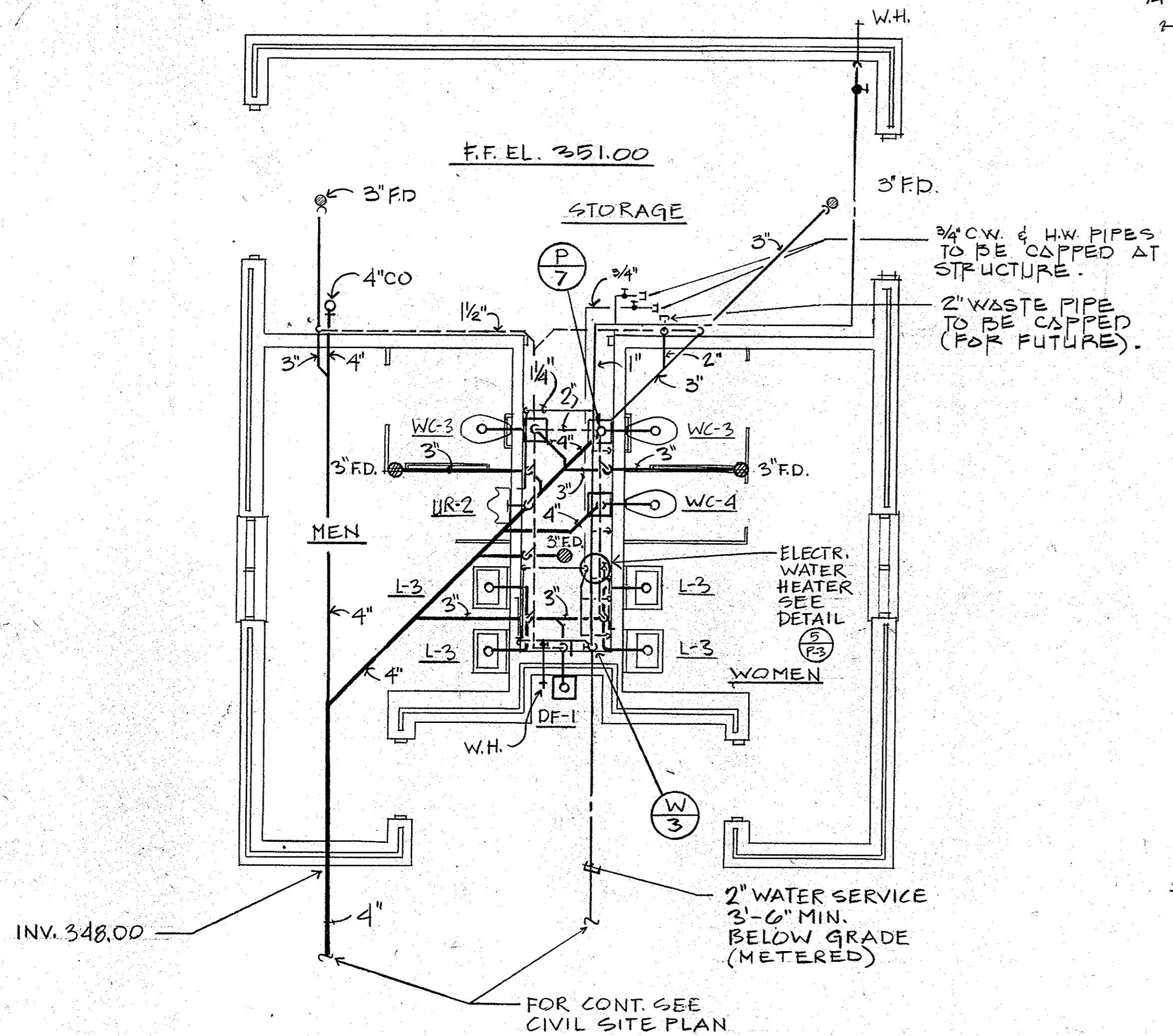
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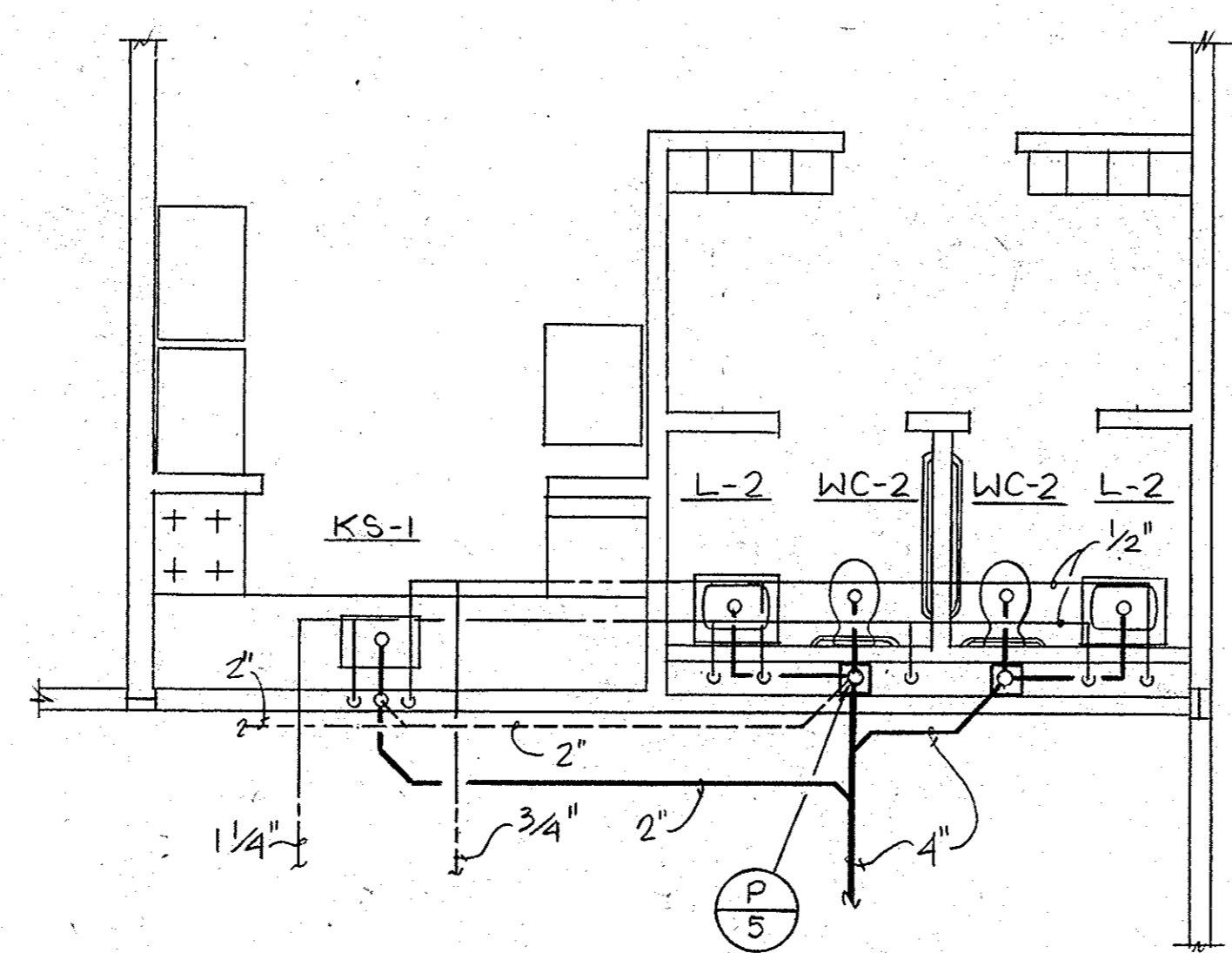
5 ELECTRIC WATER HEATER DETAIL  
NO SCALE.



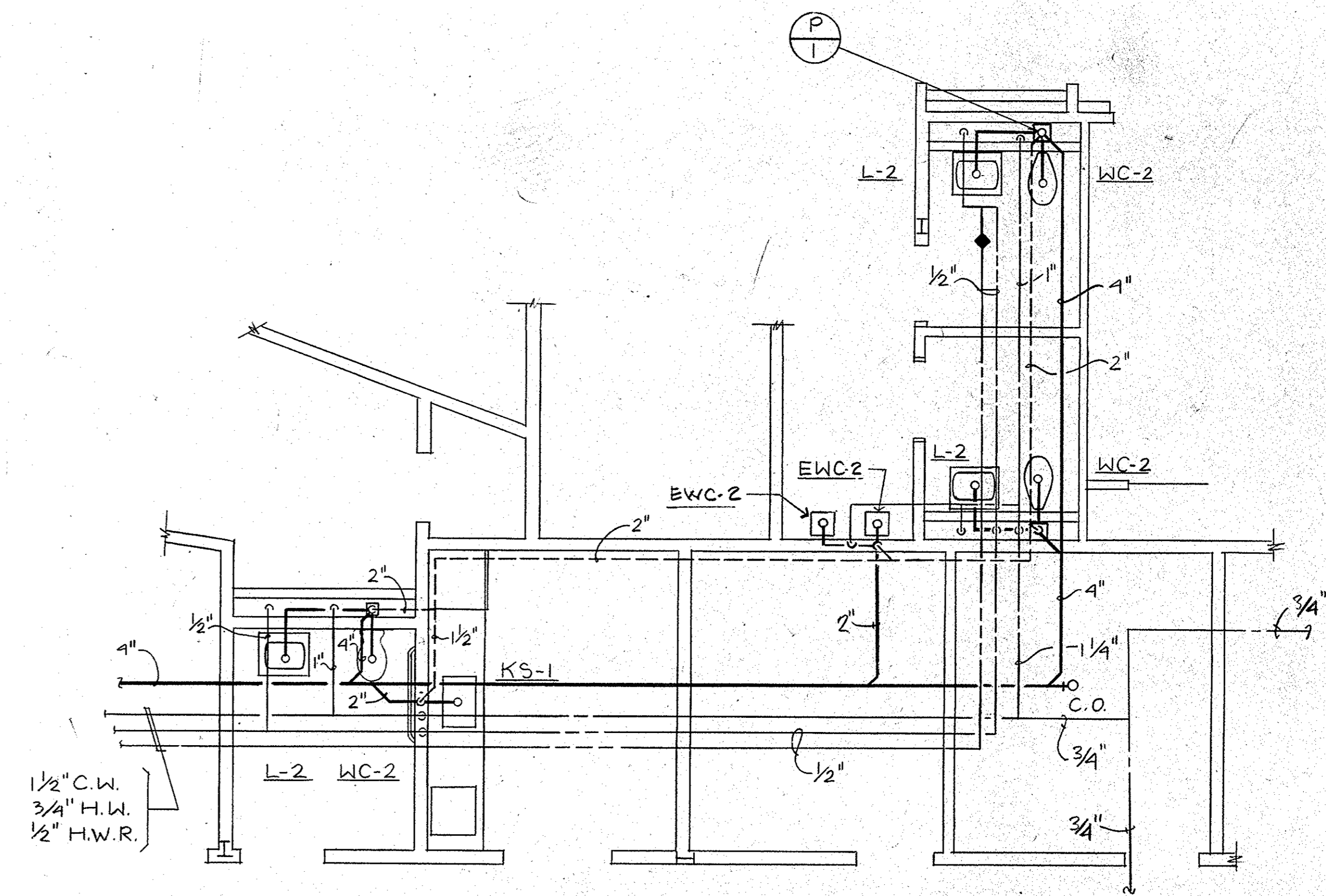
2 TOILETS IN LOBBY AREA  
SCALE: 1/4" = 1'-0"



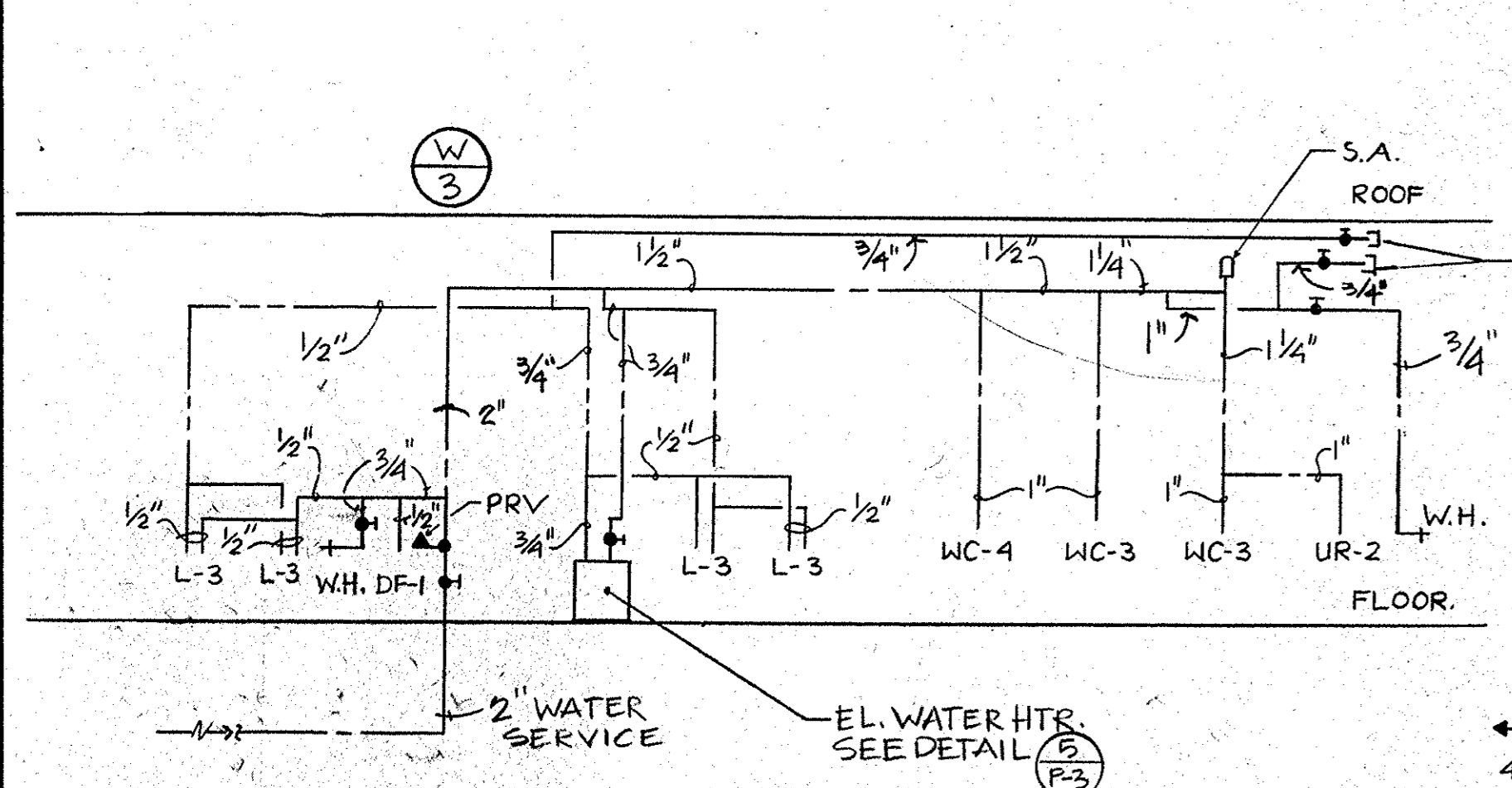
4 FACILITIES MAINTENANCE BLDG FLOOR PLAN - ALTERNATE NO. 1  
SCALE: 1/4" = 1'-0"



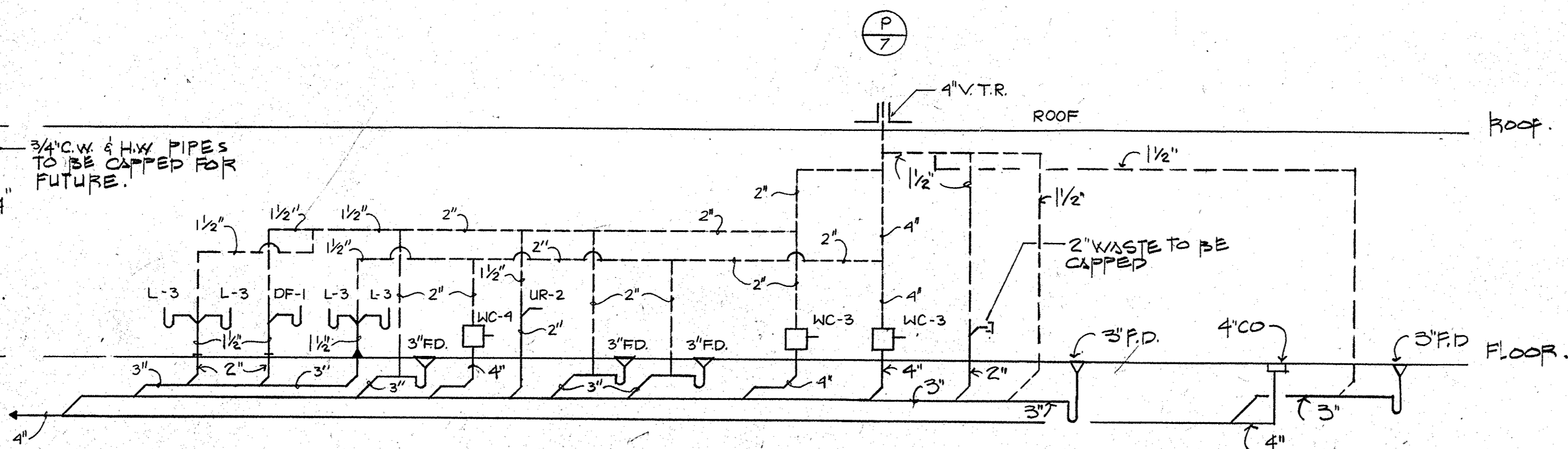
1 STAFF TOILETS  
SCALE: 1/4" = 1'-0"



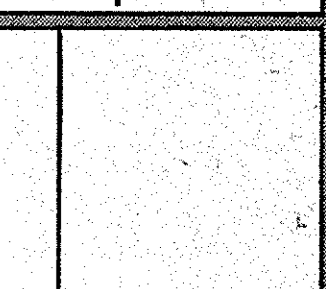
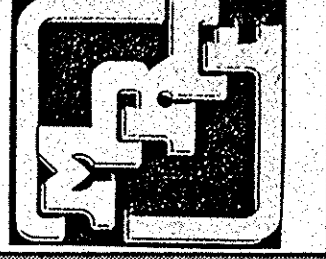
3 CHILDREN TOILETS  
SCALE: 1/4" = 1'-0"



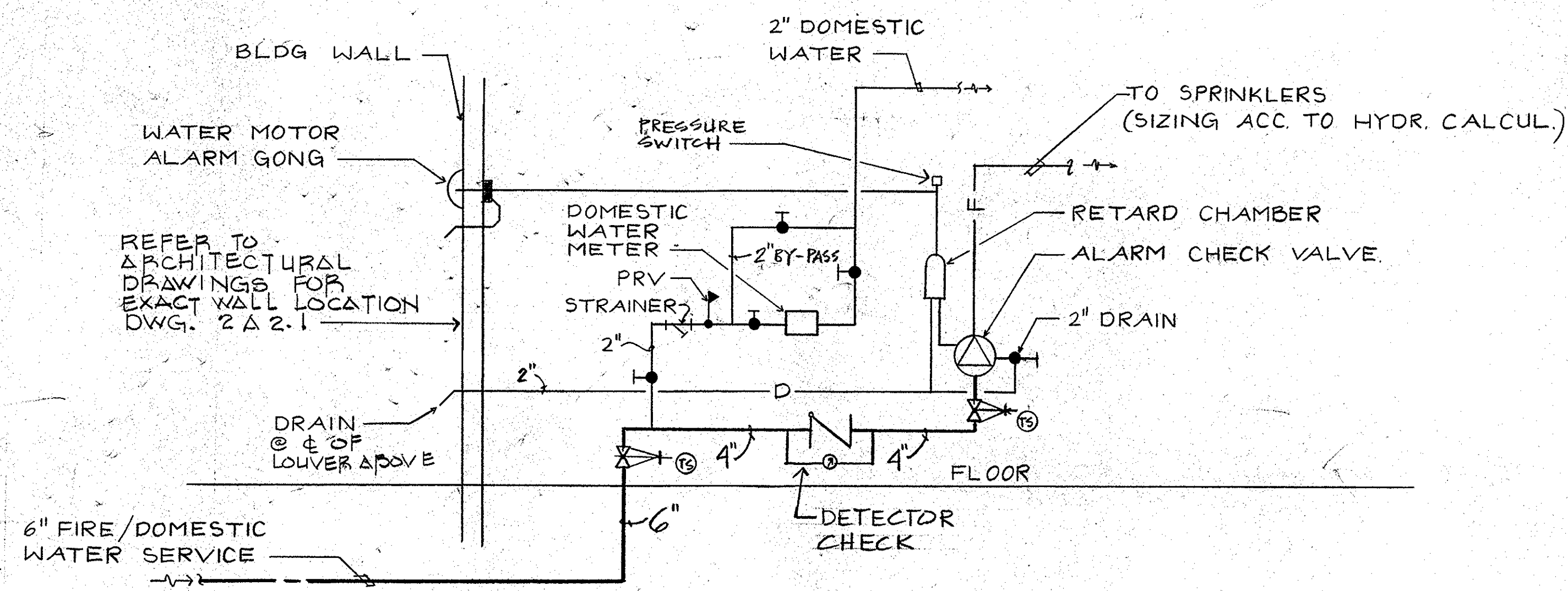
6 WATER RISER DIAGRAM  
NO SCALE



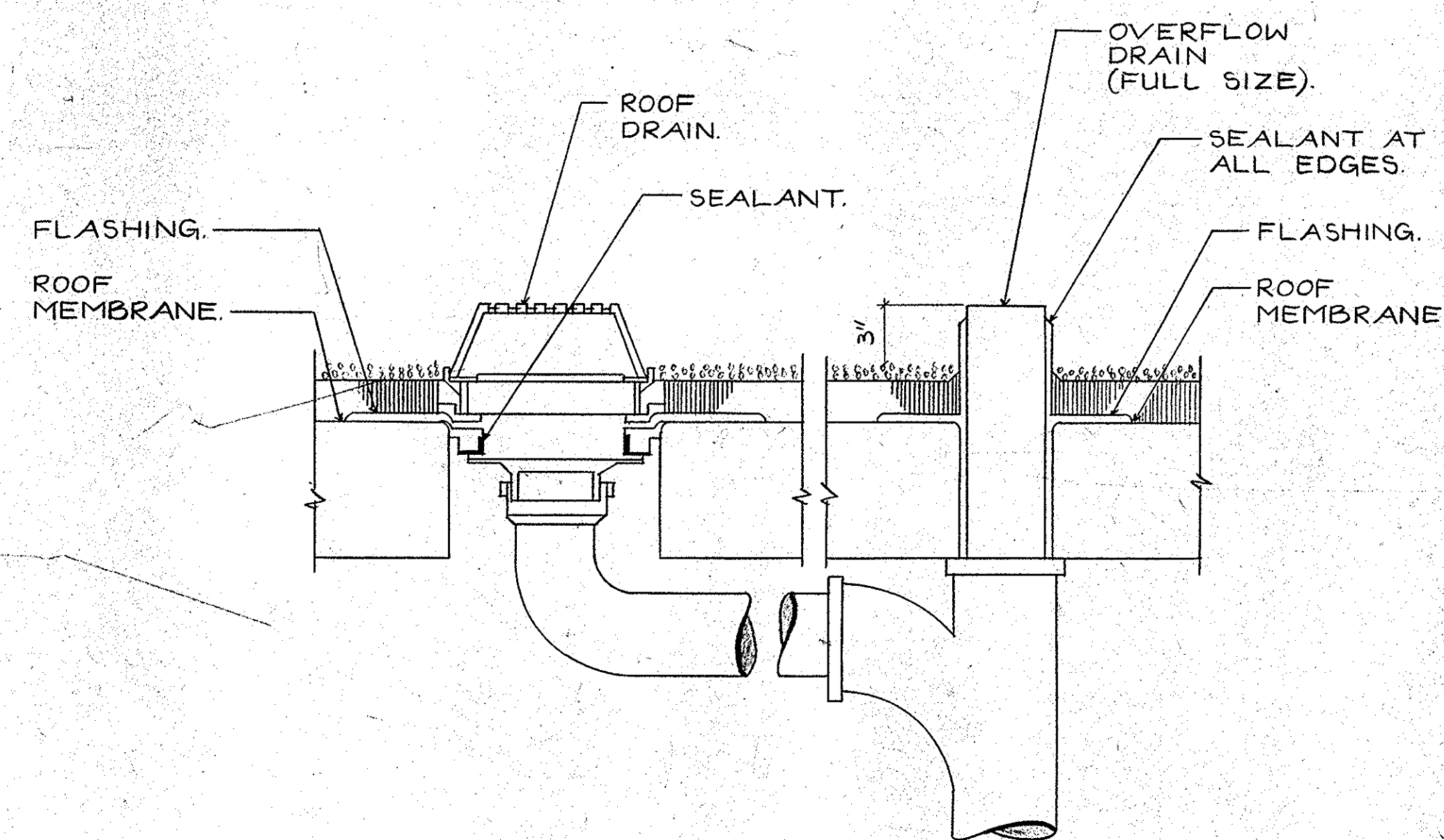
7 SANITARY RISER DIAGRAM  
NO SCALE



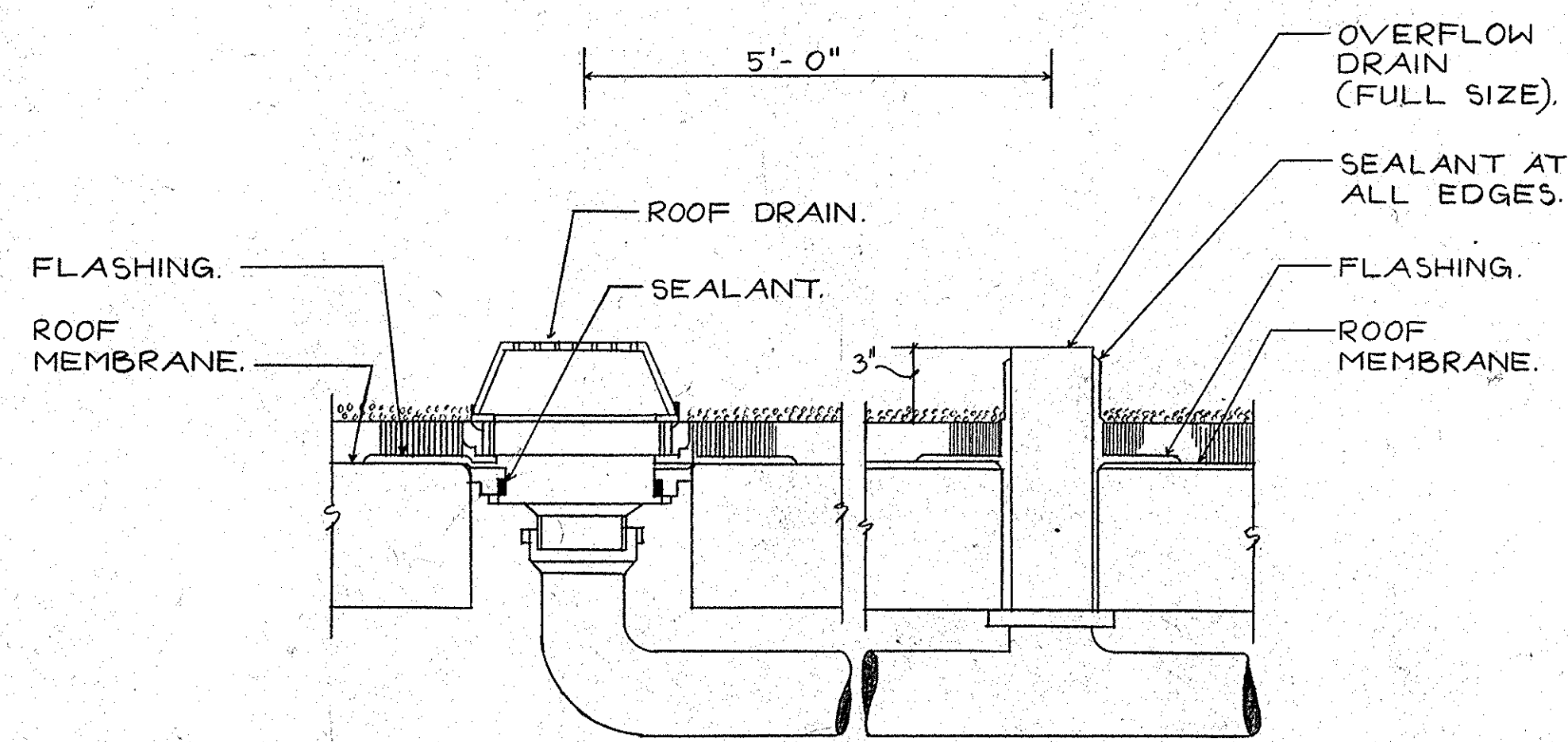




1 WATER SERVICE DETAIL  
P-4 NO SCALE.

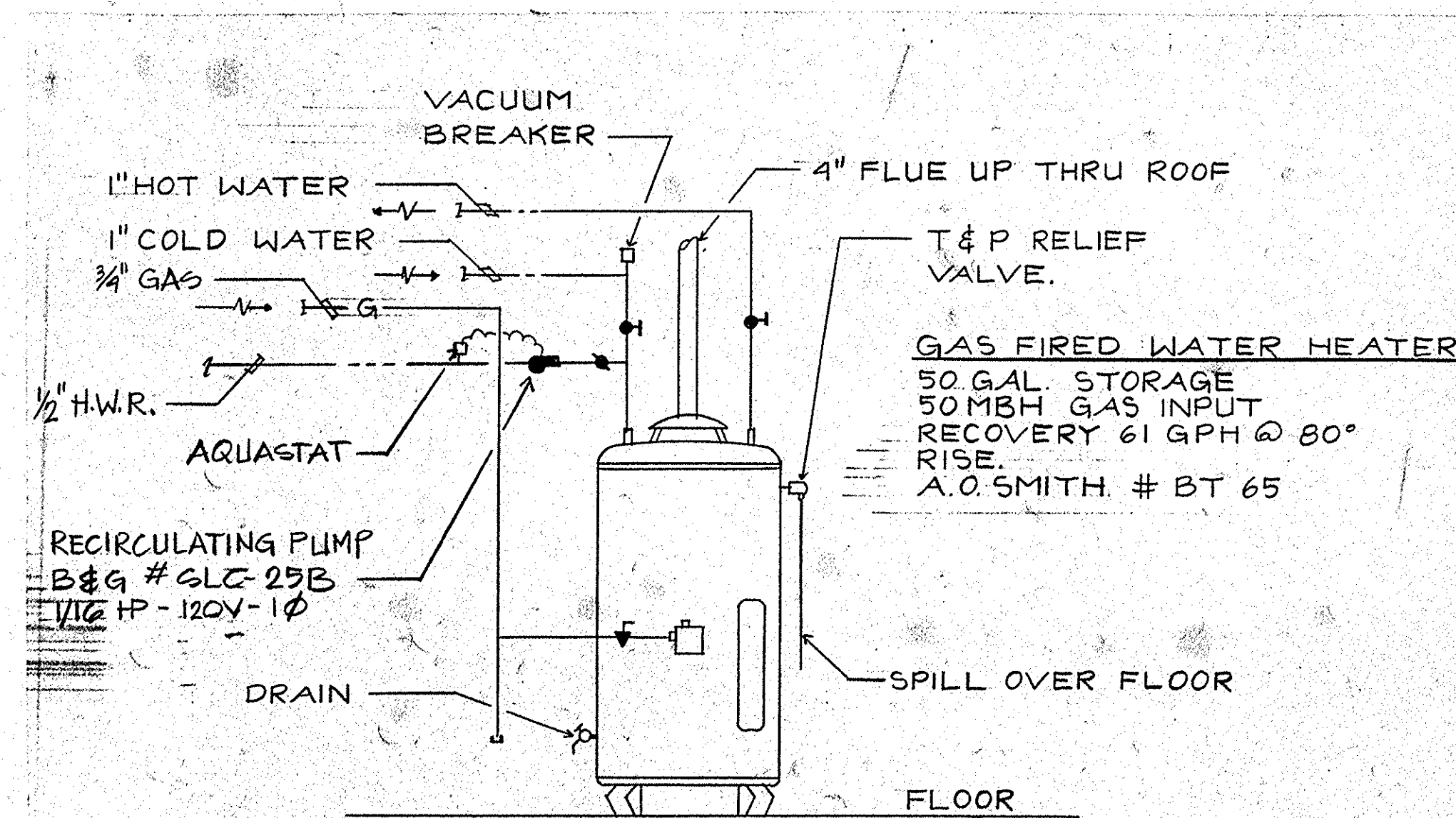


3 ROOF DRAIN AND OVERFLOW DRAIN DETAIL  
P-4 NOT TO SCALE.



4 ROOF DRAIN AND OVERFLOW DRAIN DETAIL  
P-4 NOT TO SCALE.

PLUMBING FIXTURE SCHEDULE						
ITEM	DESCRIPTION	WASTE	VENT	C.W.	H.W.	SPECIFICATIONS
WC-1	WATER CLOSET	4"	2"	1"	-	A/S "AFWALL" # 2477.016 W/ SLOAN #110-3 FLUSH VALVE AND BENEKE # 923 SEAT
WC-2	WATER CLOSET HANDICAP	4"	2"	1"	-	SAME AS WC-1 BUT MOUNTED ON HDCP HEIGHT
UR-1	URINAL	2"	1 1/2"	3/4"	-	A/S "WASHBROOK" # 6501.010 WITH SLOAN # 186 FLUSH VALVE
L-1	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	JUST MODEL # 01F-1215 WITH DELTA # 500 FAUCET (UNDER COUNTER MOUNTED, SEE ARCH.)
L-2	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	A/S "COMRADE" # 0124.024 WITH DELTA # 520 MPU FAUCET AND INSULATED TRAP & SUPPLIES.
BS-1	BAR SINK	1 1/2"	1 1/2"	1/2"	1/2"	ELKAY # BCR-15 W/ LK-4100 FAUCET
KS-1	KITCHEN SINK	1 1/2"	1 1/2"	1/2"	1/2"	ELKAY # CR2522 WITH DELTA #100 FAUCET AND ISE # 333 DISPOSER
EW-1	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1/2"	-	ELKAY # ERP-8-C STAINLESS STEEL
EW-2	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1/2"	-	ELKAY # EHF-8 STAINLESS STEEL
MS-1	MOP SINK	3"	2"	1/2"	1/2"	A/S "AKRON" # 7695.018 W/ # 8340.242 FAUCET AND # 7798.176 TRAP STANDARD
H.S.	HAND SINK	1 1/2"	1 1/2"	1/2"	1/2"	A/S "COMRADE" # 0124.024 WITH DELTA # 520 MPU FAUCET
WC-3	WATER CLOSET HANDICAPPED	4"	2"	1"	-	SAME AS WC-4 BUT MOUNTED ON HDCP HEIGHT
WC-4	WATER CLOSET	4"	2"	1"	-	A/S "AFWALL" # 2478.014 W/ SLOAN # 143 FLUSH VALVE AND BENEKE # 523 SEAT
UR-2	URINAL	2"	1 1/2"	1"	-	A/S "LYNBROOK" # 6538.010 W/ SLOAN # 190 FLUSH VALVE
DF-1	DRINKING FOUNTAIN	1 1/2"	1 1/2"	1/2"	-	HAWS # 1103 FR
L-3	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	A/S "COMRADE" # 0124.131 WITH DELTA # 500 FAUCET AND INSULATED TRAP & SUPPLIES
KS-2	3 COMPARTMENT SINK	(3) 1 1/2"	-	(3) 1/2"	(3) 1/2"	THREE COMPARTMENT SINK SHALL BE WELDDIT SCULLERY SINK MODEL # VNSF-8345-L2 WITH (2) LK-25-BT WASTE FITTING W/ LEVER HANDLE, (2) LK-20-A FAUCET, (1) LK-167 PRE-RINSE SPRAY NOZZLE, (3) 1/2" INDIRECT WASTE PIPE SHALL BE EXTENDED AND DISCHARGED OVER 3' FLOOR SINK (PROVIDE 1" AIR GAP)



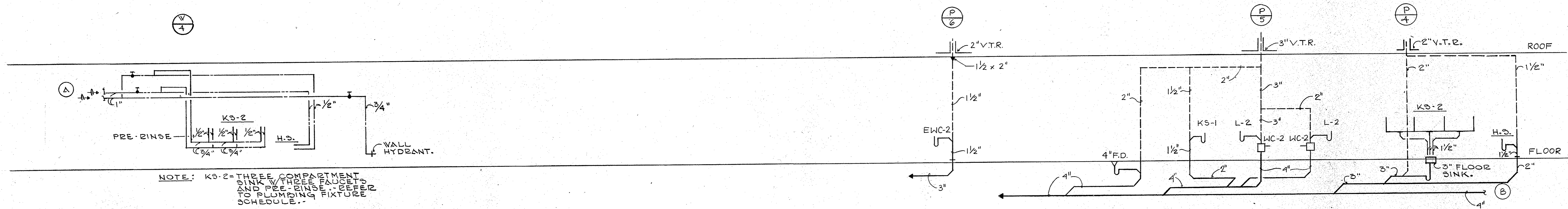
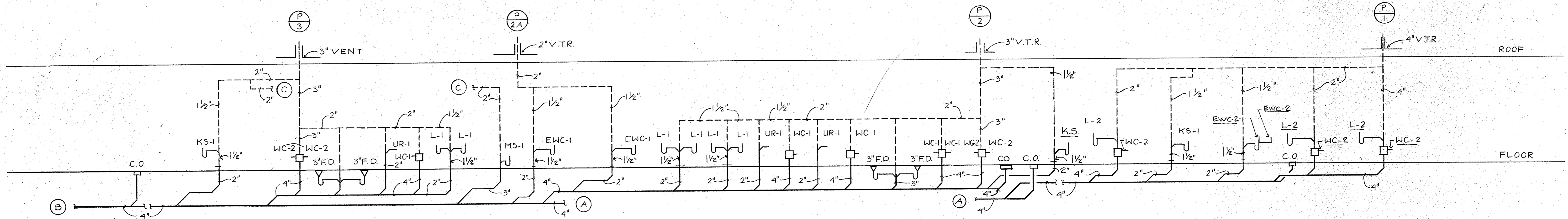
2 GAS FIRED WATER HEATER  
P-4 NOT TO SCALE

PLUMBING SYMBOLS LIST	
---	WASTE OR SOIL
---	VENT
---	COLD WATER (C.W.)
---	HOT WATER (H.W.)
---	HOT WATER RECIRCULATING (H.W.R.)
F	SPRINKLER LINE
G	GAS LINE
+	SHUT OFF VALVE
+	GAS COCK
+	BALANCING VALVE
+	FLOW SWITCH (F.S.)
+	OUTSIDE SCREW AND YOKE VALVE (O.S.& Y.V.)
+	CHECK VALVE
+	SHOCK ABSORBER (S.A.)
+	FLOOR DRAIN (F.D.)
+	OPEN SITE DRAIN (O.S.D.)
+	CLEANOUT (CO.)
+	RISER DESIGNATION
ABV. CLG.	ABOVE CEILING
BLW. FL.	BELOW FLOOR
INV. EL.	INVERT ELEVATION
F.F. EL.	FINISH FLOOR ELEVATION
R.D.	ROOF DRAIN
R.L.	RAIN LEADER
R.T.U.	ROOF TOP UNIT
V.T.R.	VENT THRU ROOF
+	HOSE BIBB (H.B.) OR WALL HYDRANT (W.H.) 1/2" A.F.P.
+	TAMPER SWITCH
+	YARD HYDRANT (Y.H.)
EW.C.	ELECTRIC WATER COOLER
W.C.	WATER CLOSET
+	CARRIER
I.W.	INDIRECT WASTE

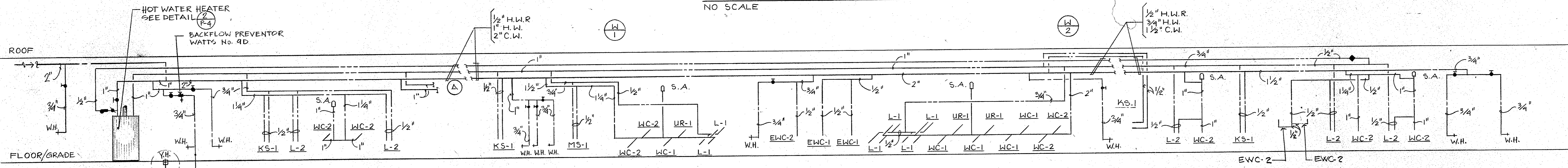
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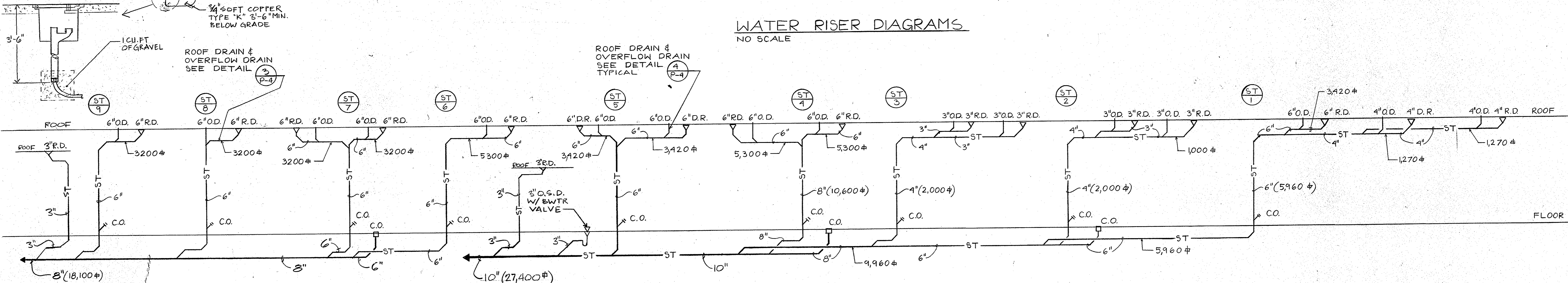
SYMBOLS SCHEDULE AND DETAILS  
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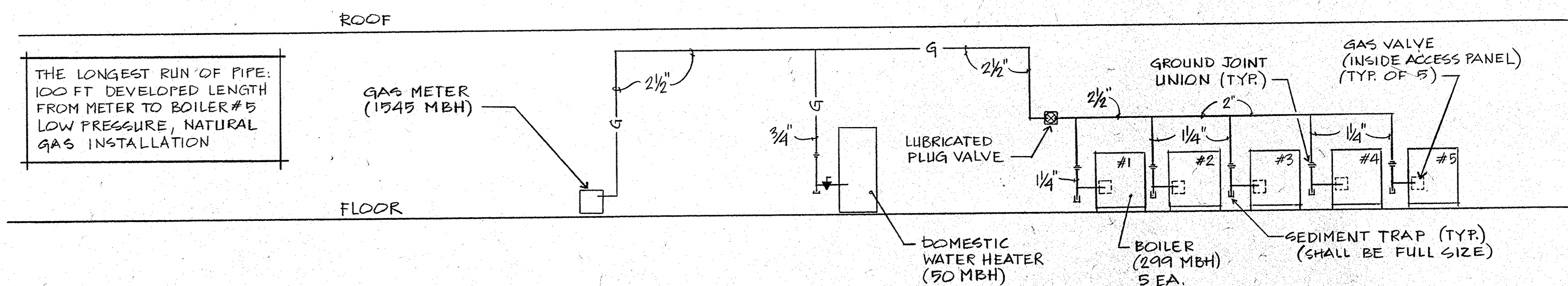
SANITARY RISER DIAGRAMS  
NO SCALE



WATER RISER DIAGRAMS  
NO SCALE

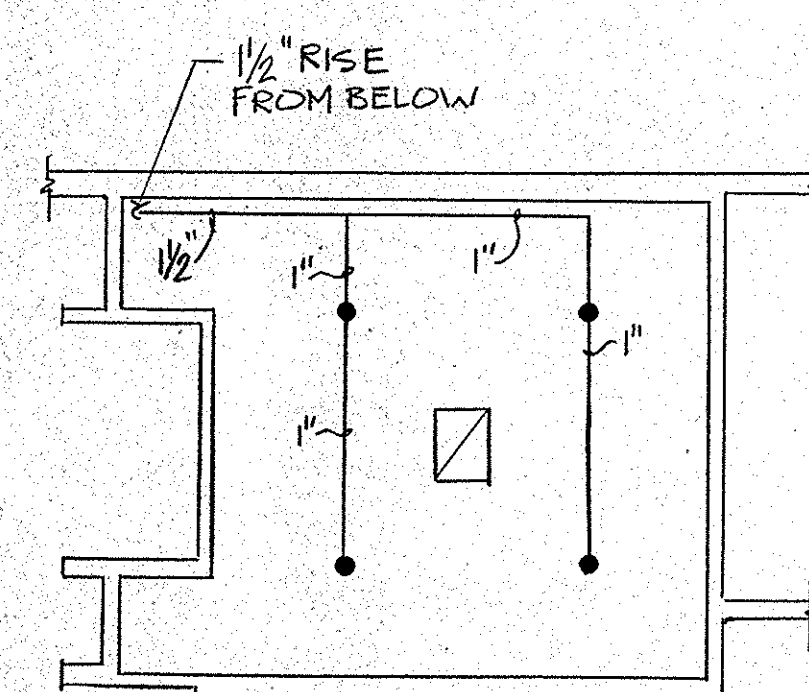
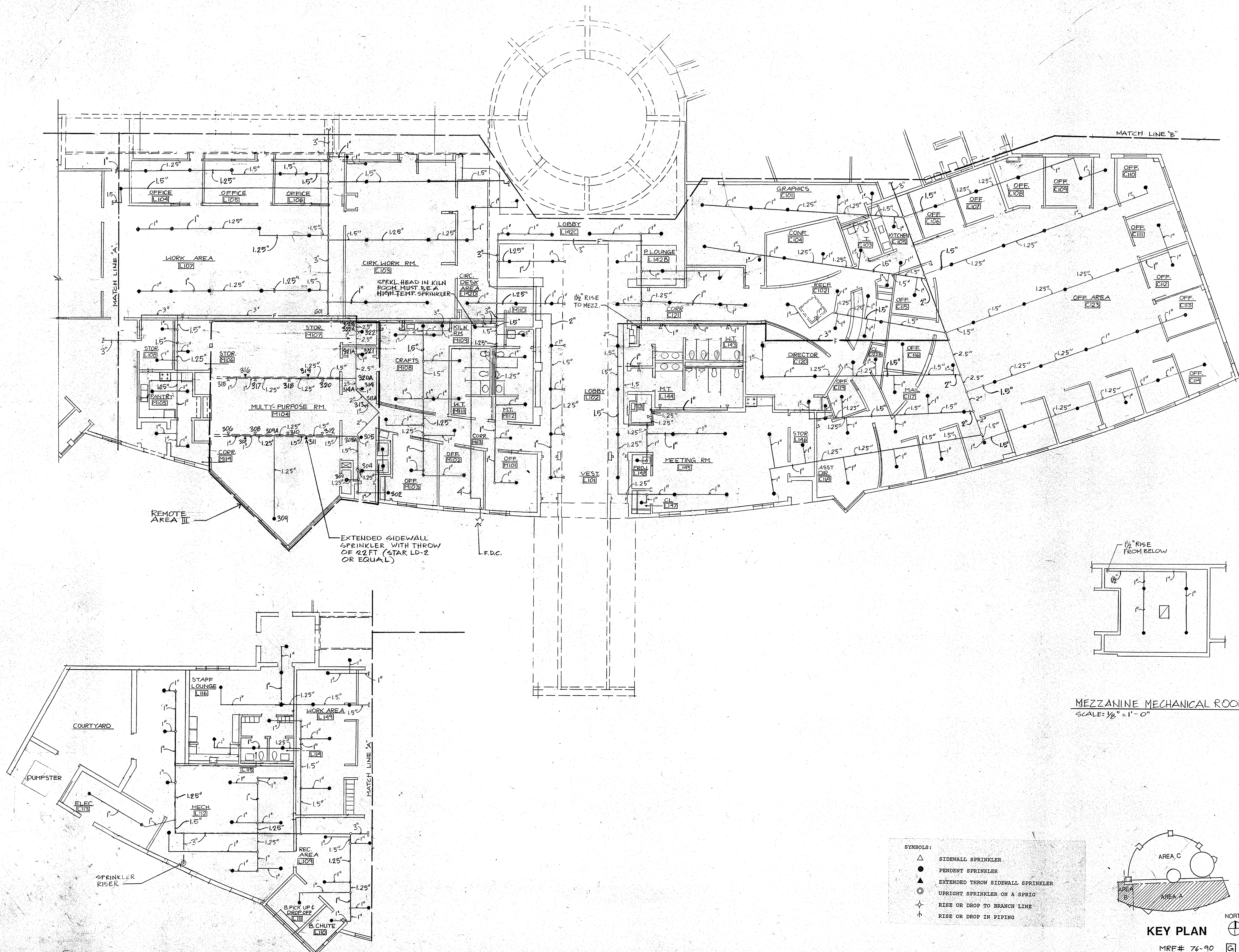


STORM RISER DIAGRAMS  
NO SCALE



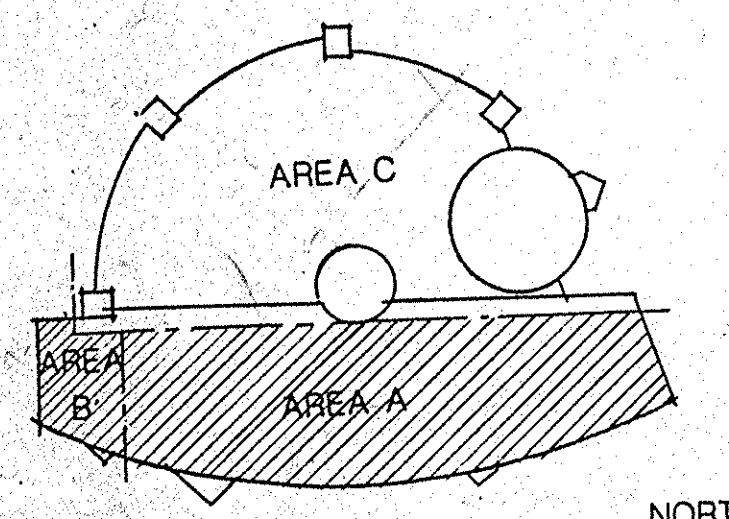
GAS RISER DIAGRAM  
NO SCALE

MRF # 76-90

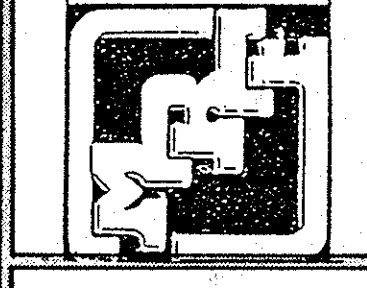


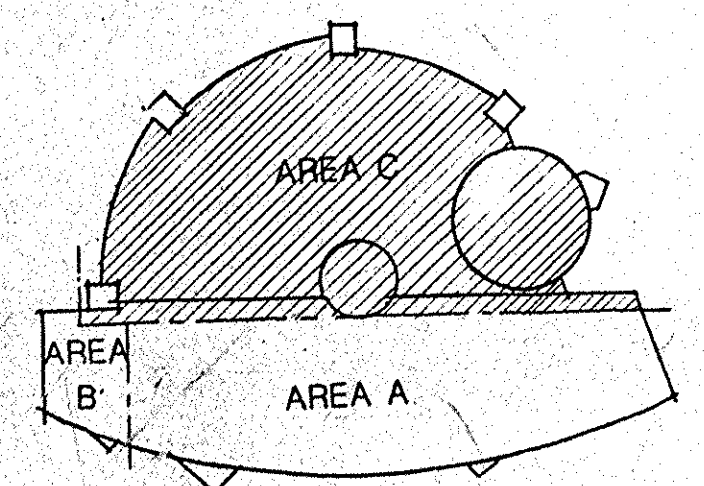
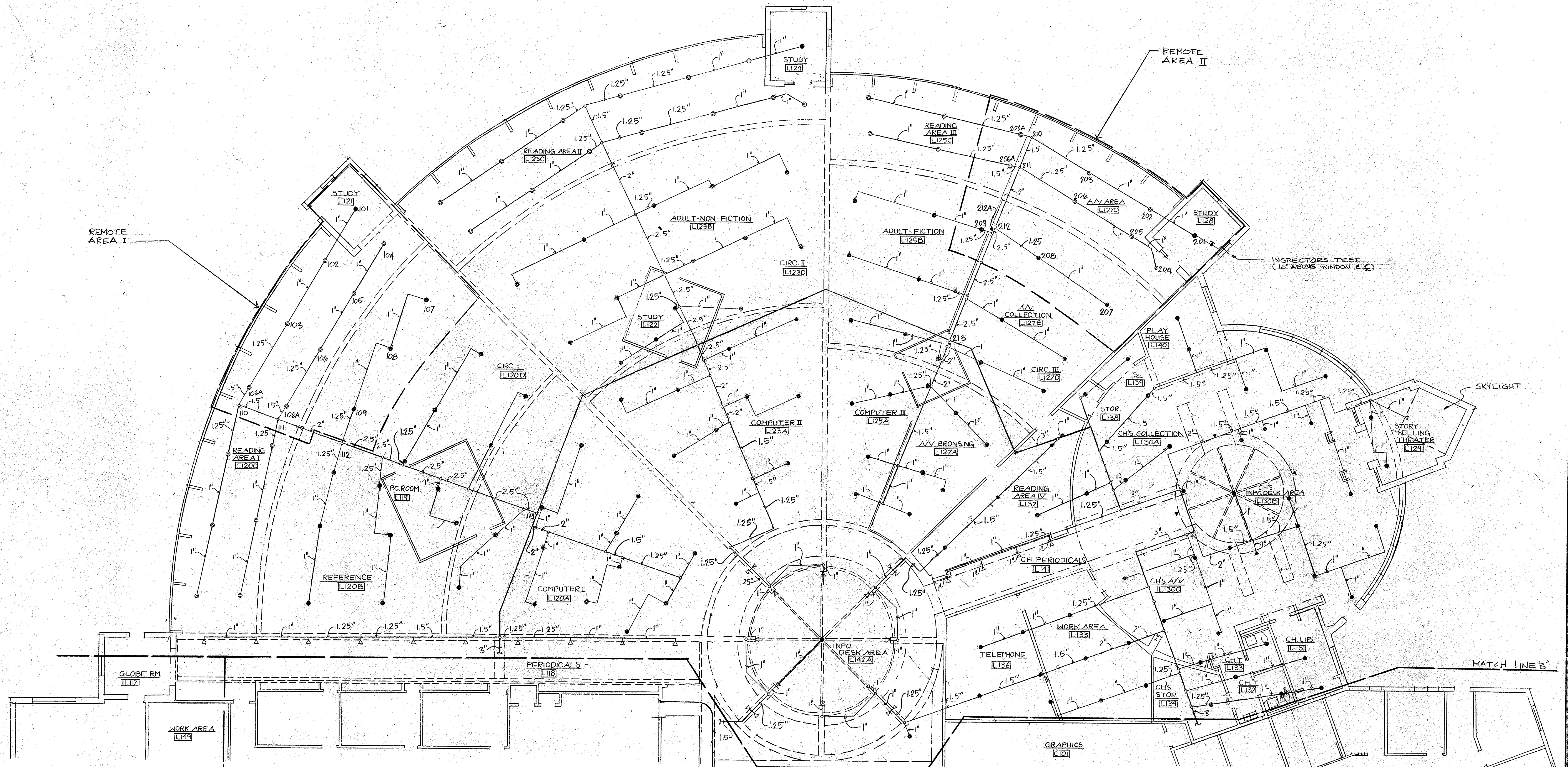
MEZZANINE MECHANICAL ROOM  
SCALE: 1/8" = 1'-0"

- SYMBOLS:
- △ SIDEWALL SPRINKLER
  - PENDENT SPRINKLER
  - ▲ EXTENDED THROW SIDEWALL SPRINKLER
  - ⊙ UPRIGHT SPRINKLER ON A SPRIG
  - RISE OR DROP TO BRANCH LINE
  - ↑ RISE OR DROP IN PIPING



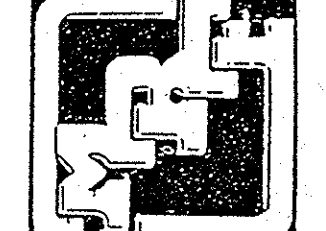
KEY PLAN  
MRF# 76-90





KEY PLAN  
MRF. # 76-90

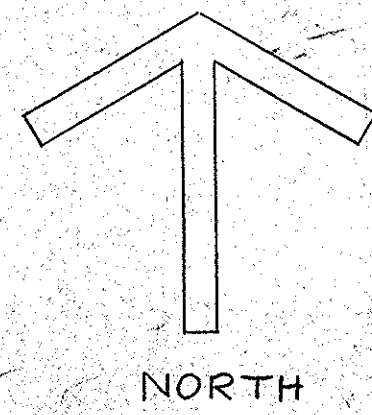
MENDOZA, RIBAS, FARINAS & ASSOC  
CONTRACTORS



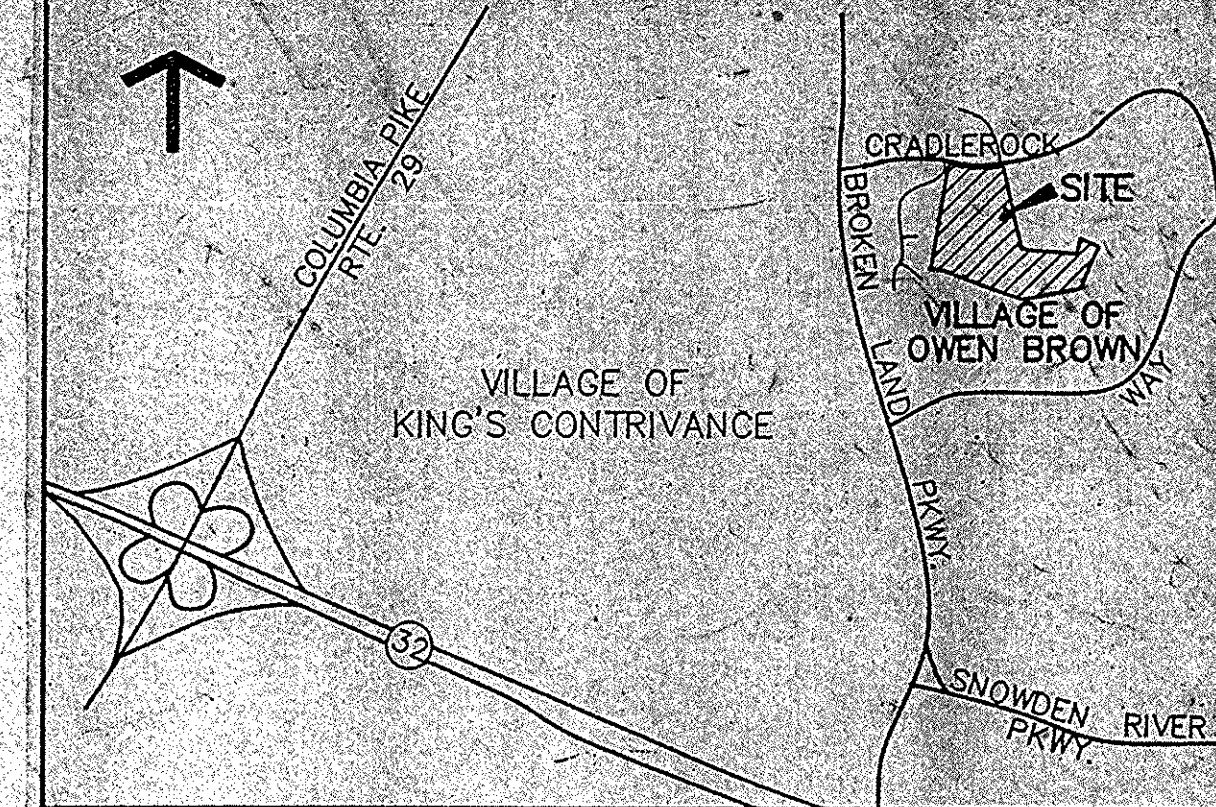
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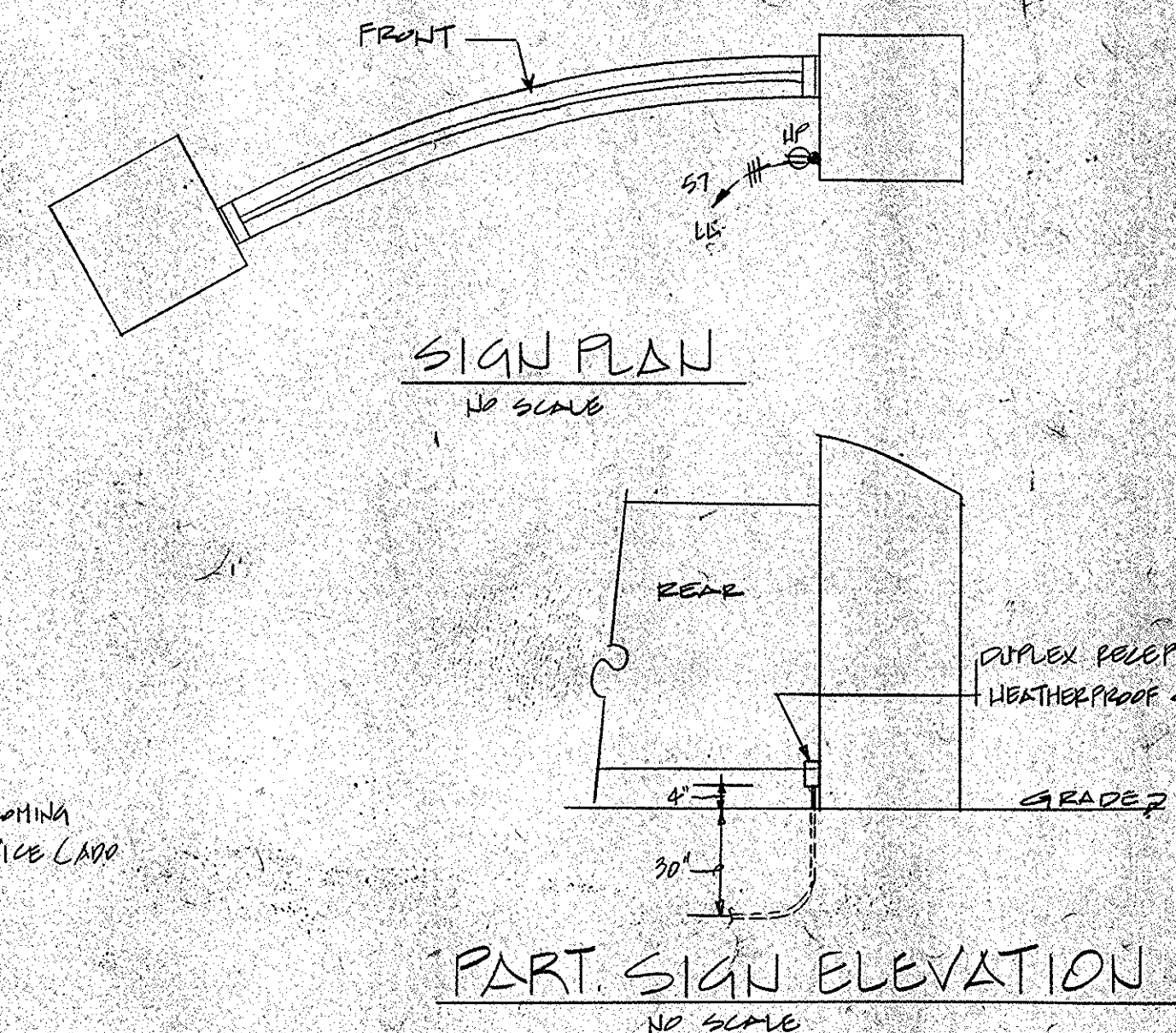
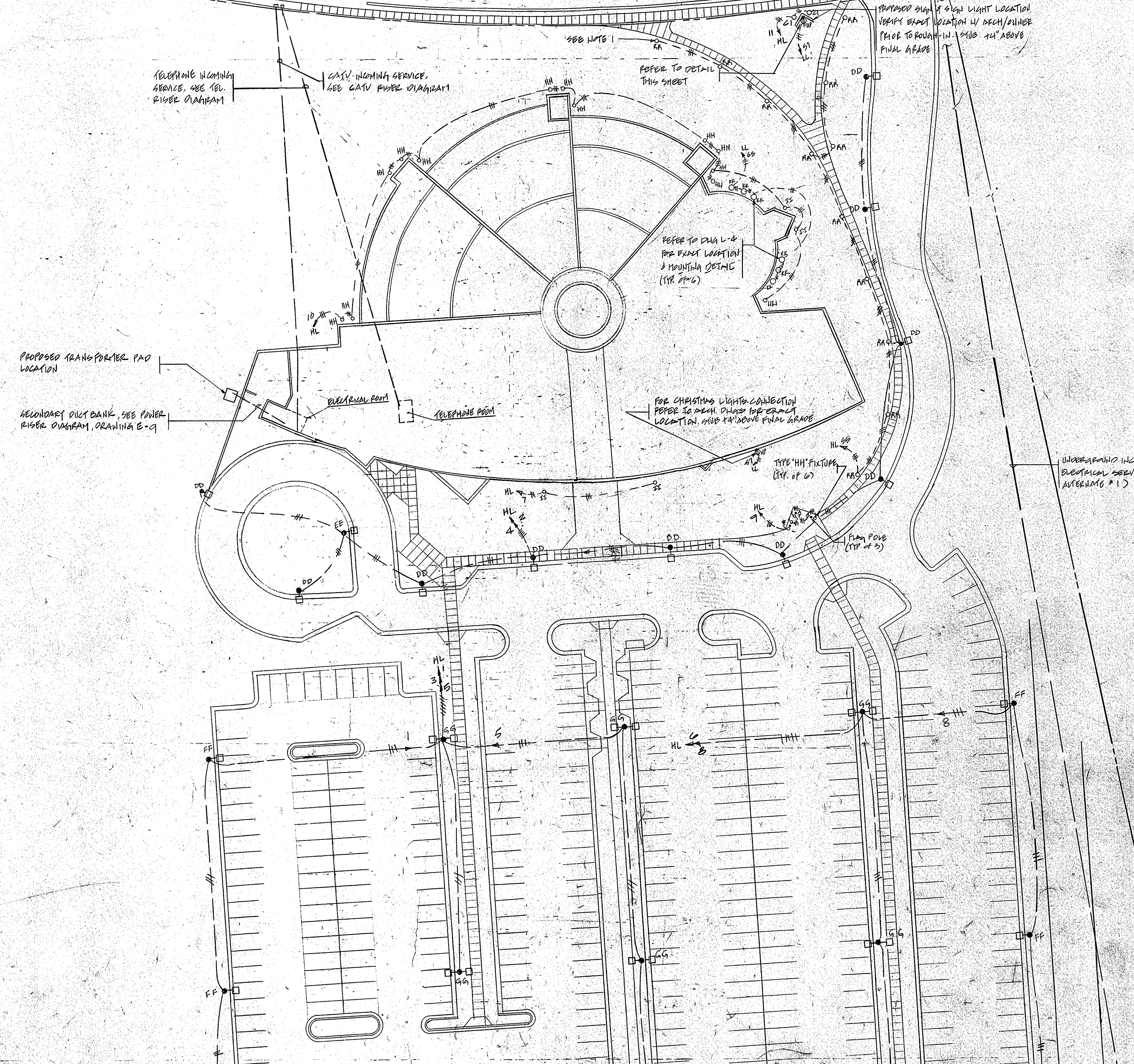
FP-2



CRADLEROCK WAY



VICINITY MAP  
SCALE: 1" = 2000'



**SITE NOTES:**  
1. CONTRACTOR SHALL KEEP ELECTRICAL CONDUIT CONCEALED & TIGHT TO BENCH OF CONCRETE HALF TO AVOID FUTURE DISTURBANCE WHEN LANDSCAPING IS INSTALLED. COORDINATE EXACT LOCATION W/ ARCHITECT/OWNER PRIOR TO ROUGH-IN (TYPICAL OF 12 TYPE 'RH' LIGHT FIXTURES)

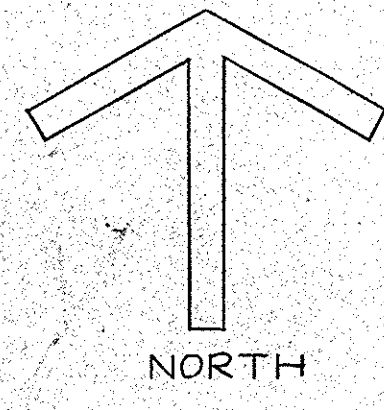
SITE PLAN - NORTH - ELECTRICAL  
SCALE: 1" = 30'

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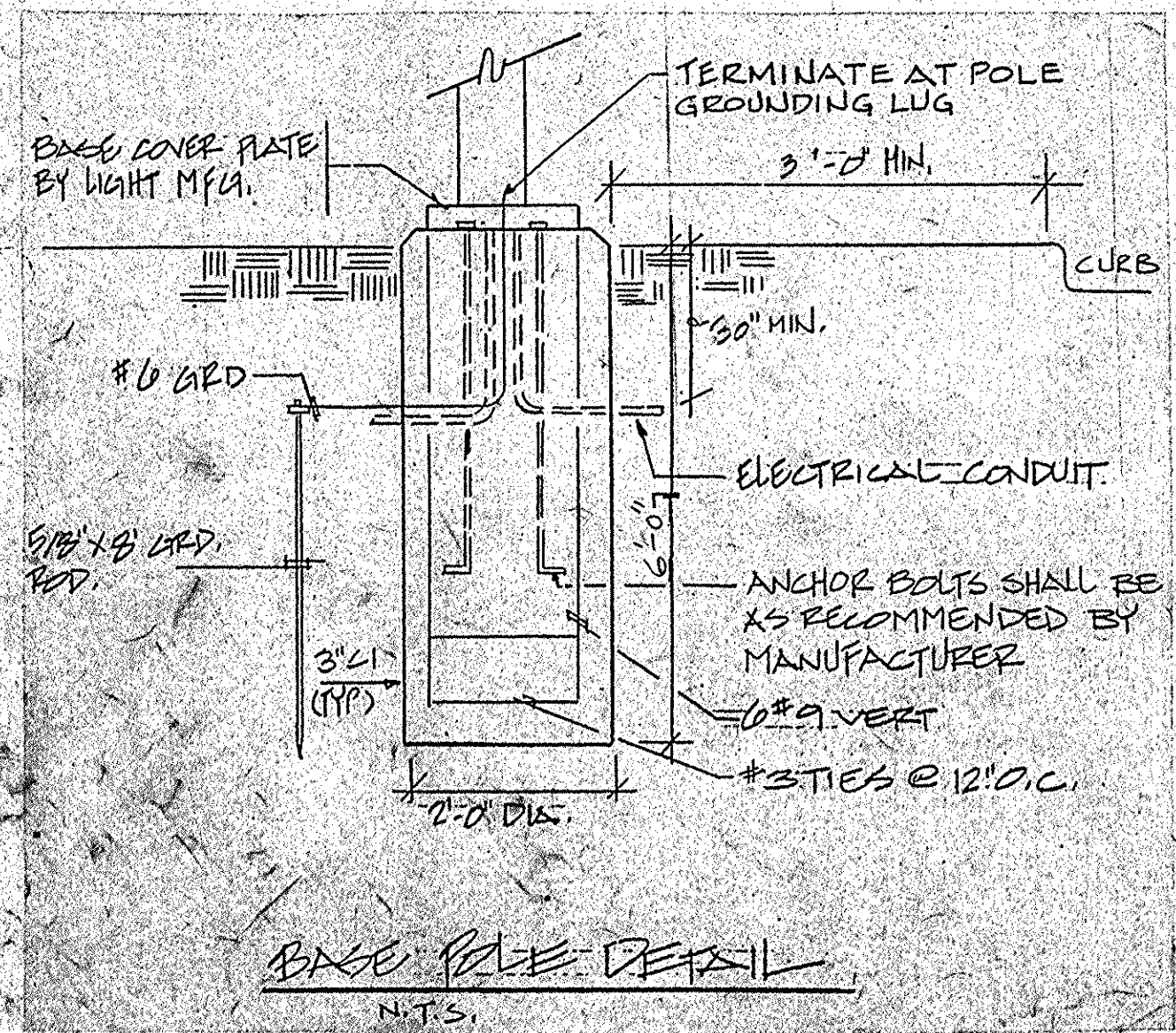
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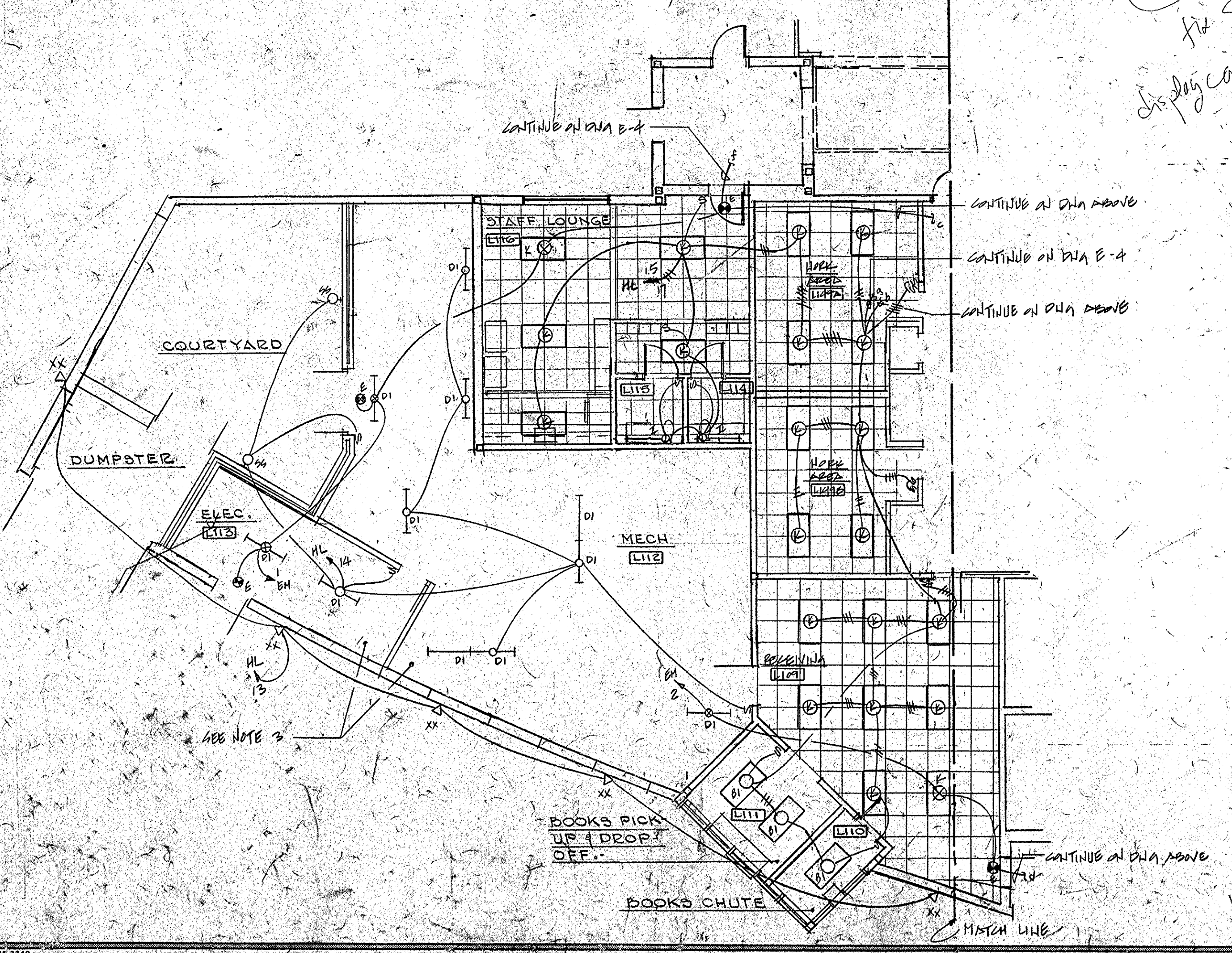
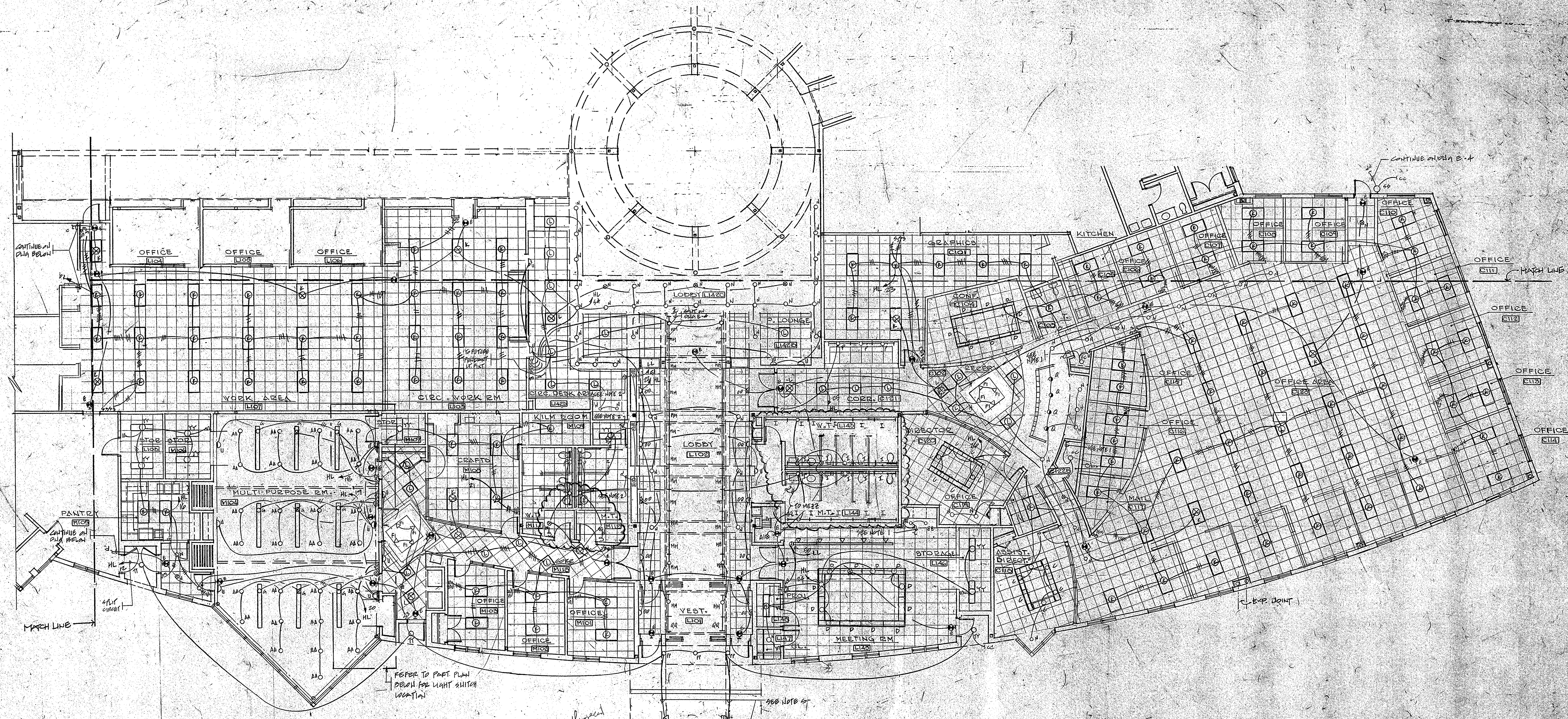
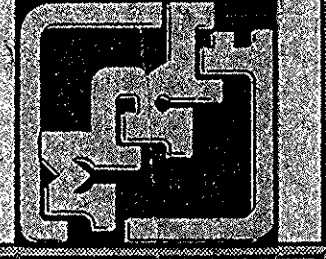
SITE PLAN - NORTH - ELECTRICAL  
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E-1

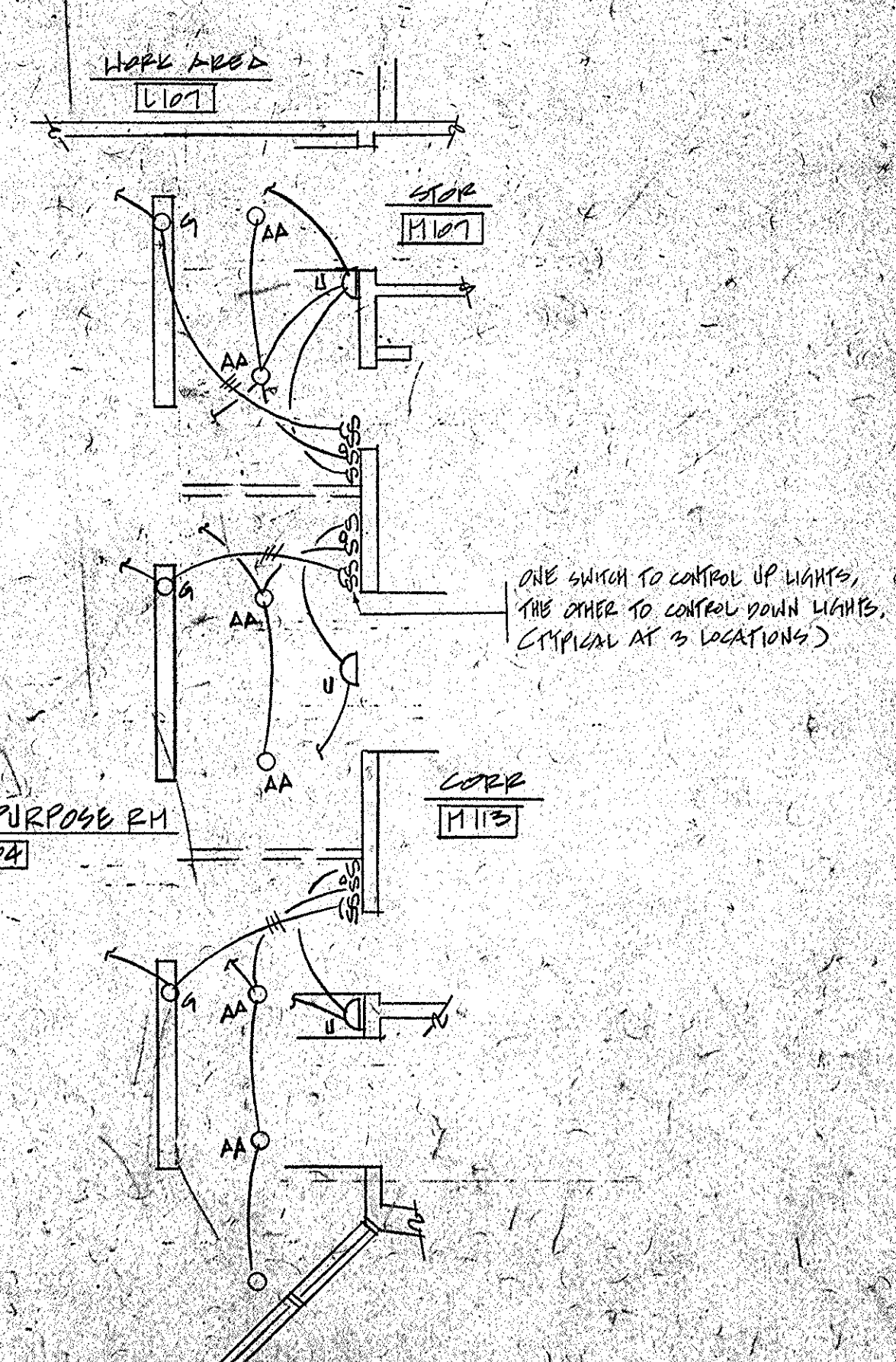


SITE PLAN - SOUTH - ELECTRICAL  
SCALE: 1" = 30'

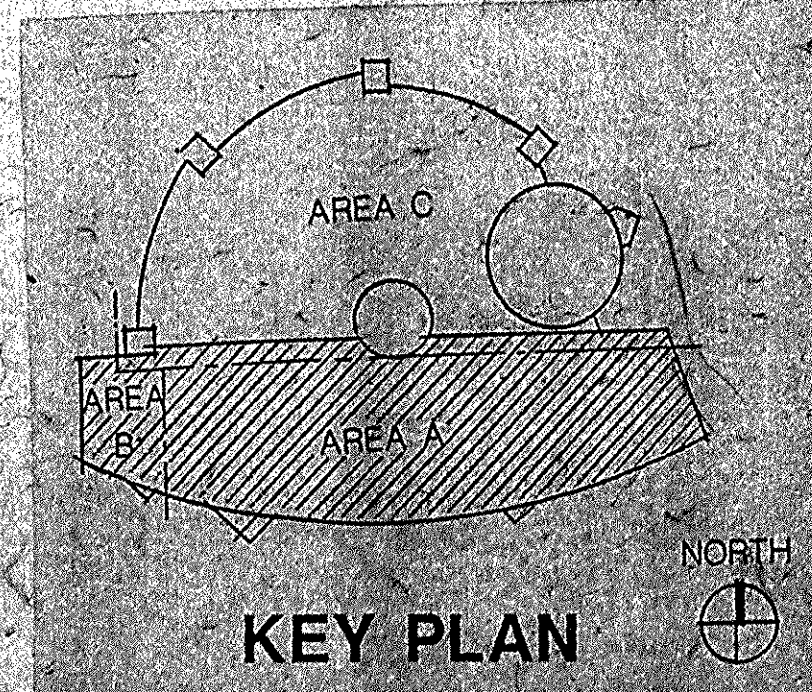




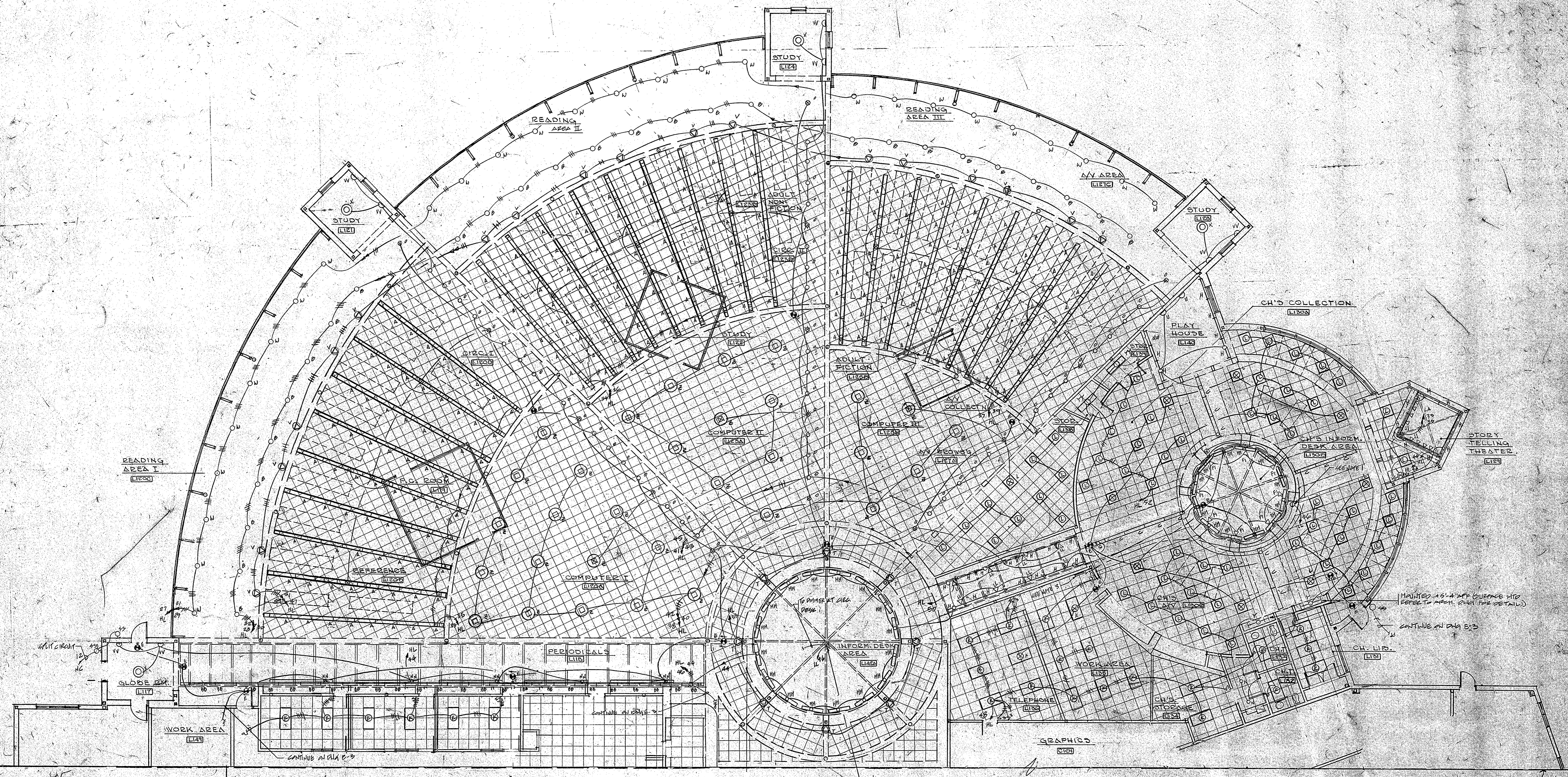
*U.U. finished  
 for schedule too  
 in play case*



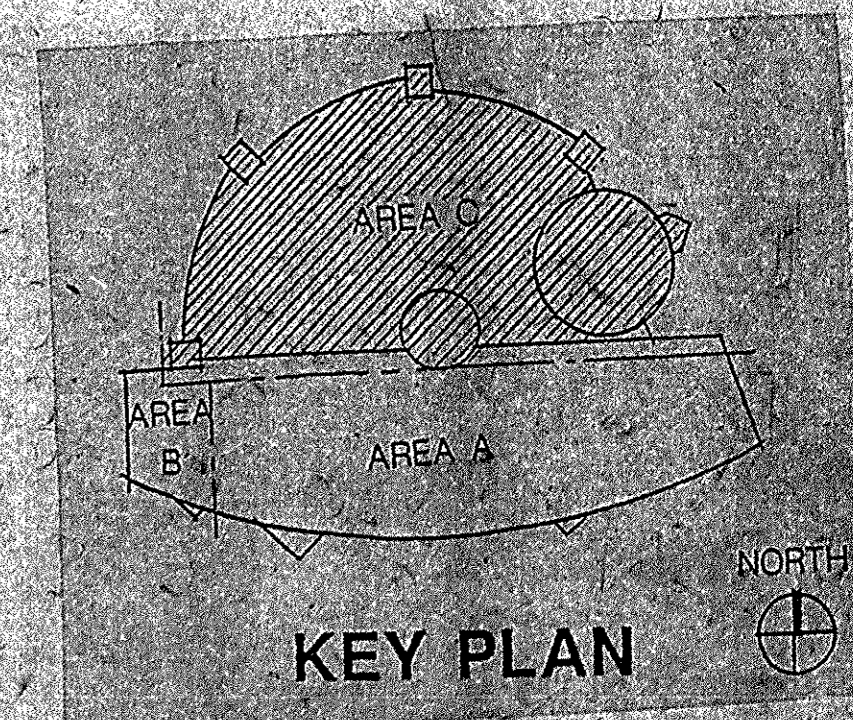
- NOTES:
1. CONNECT 2" x 12" AND 1/2" DIA CONDUIT TO NEAREST 120V RECEPTACLE CIRCUIT
  2. CONNECT TO 120V LIGHT SWITCH. LOCATION TO BE PROVIDED BY ARCHITECT & OWNER
  3. LIGHT FIXTURES IN MECHANICAL ROOM AREAS SHALL BE PENDANT MOUNTED OR WALL MOUNTED AS PERMITTED BY FIELD CONDITIONS. COORDINATE EXACT LOCATIONS WITH MECHANICAL & PLUMBING INSTALLATIONS. LIGHT FIXTURES IN ELECTRICAL ROOM SHALL BE PENDANT MOUNTED. BOTTOM OF THESE LIGHT FIXTURES SHALL BE APPROX. +8'-0" R.F.S.
  4. REFER TO SHEET B-11 FOR LIGHTING CONTROL ARRANGEMENTS.
  5. GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL STRUCTURE (STEEL BEAM) (DO NOT EXPOSE CONDUIT) REFER TO ARCH. PLANS FOR DETAIL.



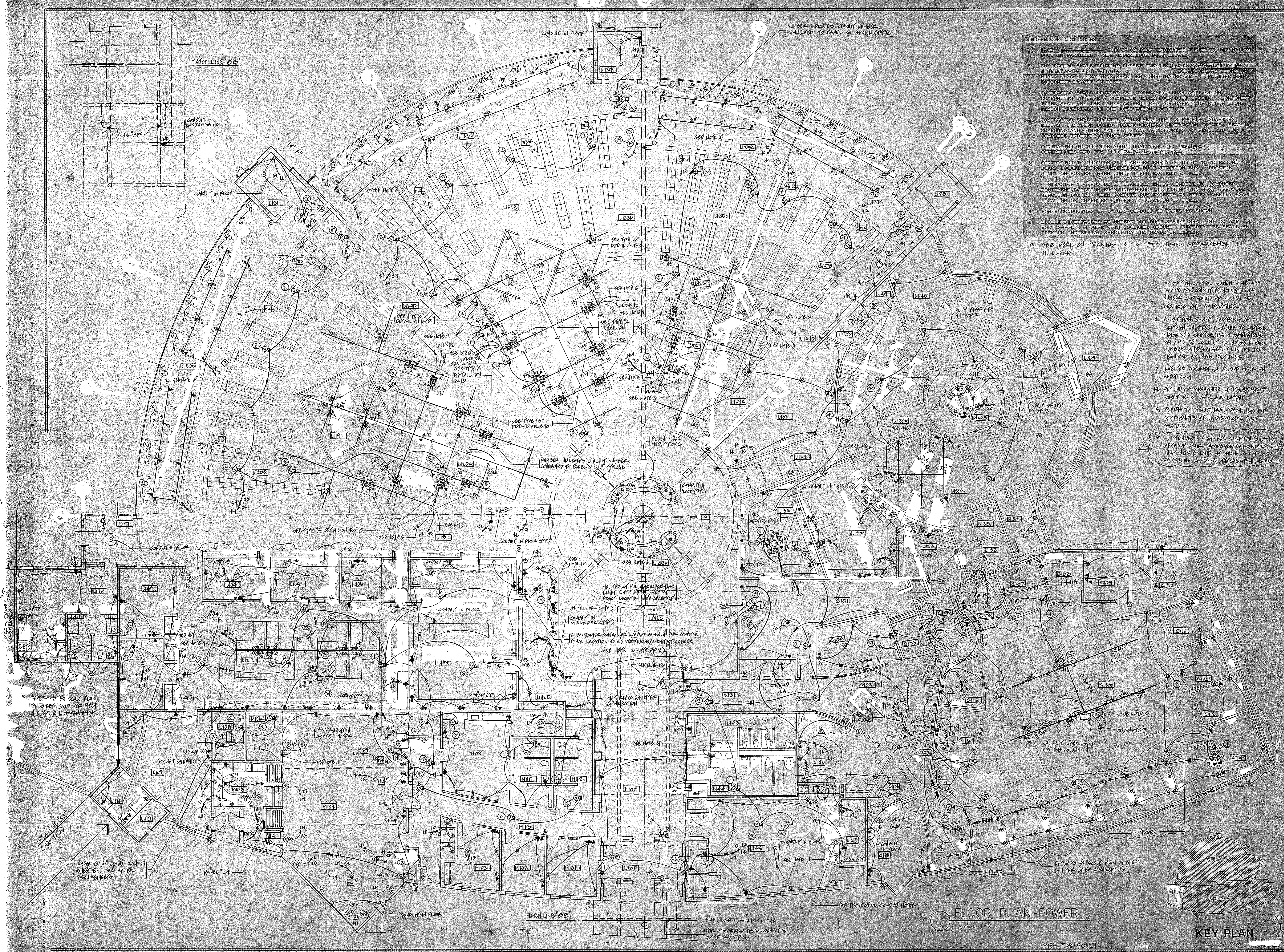
MRF # 76-90



- NOTES:**
1. NEAR SIGN CONNECTIONS SHALL COMPLY WITH ARTICLE 400 OF THE H.C.C.
  2. REFER TO SHEET E-11 FOR LIGHTING CONTROL ARRANGEMENTS.
  3. REMOVE SWITCHES FOR CHILDREN'S AREA.







- UNDERFLOOR DUCT NOTES**
1. EACH \_\_\_\_\_ SHOWN ON PLAN INDICATES THREE (3) #2 WAGNER DUCTS IN PARALLEL. SEE UNDERFLOOR DUCT DETAIL.
  2. CONTRACTOR SHALL PROVIDE PRESIT INSERTS FOR ALL UNDERFLOOR DUCT ACTIVATION LOCATIONS AS SHOWN ON PLAN. EXACT LOCATIONS SHALL BE COORDINATED WITH FURNITURE AND EQUIPMENT LAYOUT IN FIELD.
  3. CONTRACTOR SHALL PROVIDE ALL NECESSARY FLUSH ACTIVATION COMPONENTS TO HAVE A COMPLETE UNDERFLOOR DUCT SYSTEM. COMPONENT TYPES SHALL BE THE TYPES AS REQUIRED FOR GROUND OR OTHER FLOOR FINISH MATERIALS AT THE ACTIVATION LOCATIONS.
  4. CONTRACTOR SHALL PROVIDE ADJUSTABLE DUCT SUPPORTS, ADAPTERS, ELBOWS, JUNCTION BOXES, BLANK WAGNERS, EXPANSION JOINTS, SEALING COMPOUND AND OTHER MATERIALS AND ACCESSORIES AS REQUIRED FOR A COMPLETE UNDERFLOOR DUCT SYSTEM.
  5. CONTRACTOR TO PROVIDE ADDITIONAL TEN (10) \_\_\_\_\_ COVERPLATES AND TEN (10) \_\_\_\_\_ COVER PLATES.
  6. CONTRACTOR TO PROVIDE 2" DIAMETER EMPTY CONDUIT TO TELEPHONE BOARD LOCATION FROM UNDERFLOOR DUCT JUNCTION BOX. PROVIDE JUNCTION BOX(ES) WHEN CONDUIT RUN EXCEEDS 75 FEET.
  7. CONTRACTOR TO PROVIDE 2" DIAMETER EMPTY CONDUIT TO COMPUTER EQUIPMENT LOCATION FROM UNDERFLOOR DUCT JUNCTION BOX. PROVIDE JUNCTION BOX(ES) WHEN CONDUIT RUN EXCEEDS 75 FEET. VERIFY EXACT LOCATION OF COMPUTER EQUIPMENT LOCATION IN FIELD.
  8. POWER CONDUCTORS IN 1" O.D. CONDUIT TO PANEL AS SHOWN.
  9. DUPLEX RECEPTACLES AT UNDERFLOOR DUCT SYSTEM SHALL BE 20 AMP, 120VOLT, 2-POLE, 3-WIRE WITH INSULATED GROUND. RECEPTACLES SHALL BE PREMIUM INDUSTRIAL SPECIFICATION GRADE OR BETTER.
  10. SEE OPERATION DRAWING E-10 FOR WIRING ARRANGEMENT IN MILLINER.

11. 3-POSITION CONTROL SWITCH, 1.25 AMP, PROVIDE 3/4" CONDUIT TO HOUSE WIRING NUMBER AND GAUGE OF WIRING AS REQUIRED BY MANUFACTURER.
12. 3-POSITION 3-WAY CONTROL SWITCH, 1.25 AMP, PROVIDE 3/4" CONDUIT TO HOUSE WIRING NUMBER AND GAUGE OF WIRING AS REQUIRED BY MANUFACTURER.
13. INVENTORY REQUIRED GATES, SEE ELEC IN SHEET E-21.
14. DIMENSIONS OF MESSAGE LIMITS REFER TO SHEET E-10, 1/4" SCALE LAYOUT.
15. REFER TO STRUCTURAL DRAWINGS FOR DIMENSIONS OF UNDERFLOOR DUCT SYSTEMS.
16. JUNCTION BOX IN FLOOR FOR CONNECTION TO WIRING AT TOP OF CHAIR, PROVIDE CONCEALED WIRING TO JUNCTION BOX TO LAMP AS SHOWN AT DETAIL 20 OF DRAWING E-21A. TYPICAL AT CHAIRS.

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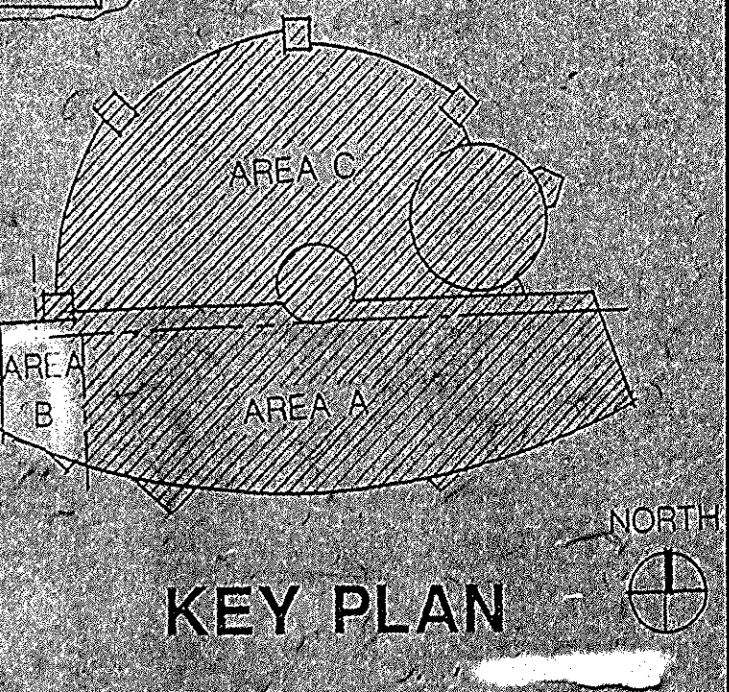
**GRIMM AND PARKER**  
 ELECTRICAL ENGINEERS  
 1000 W. WISCONSIN AVE., SUITE 200  
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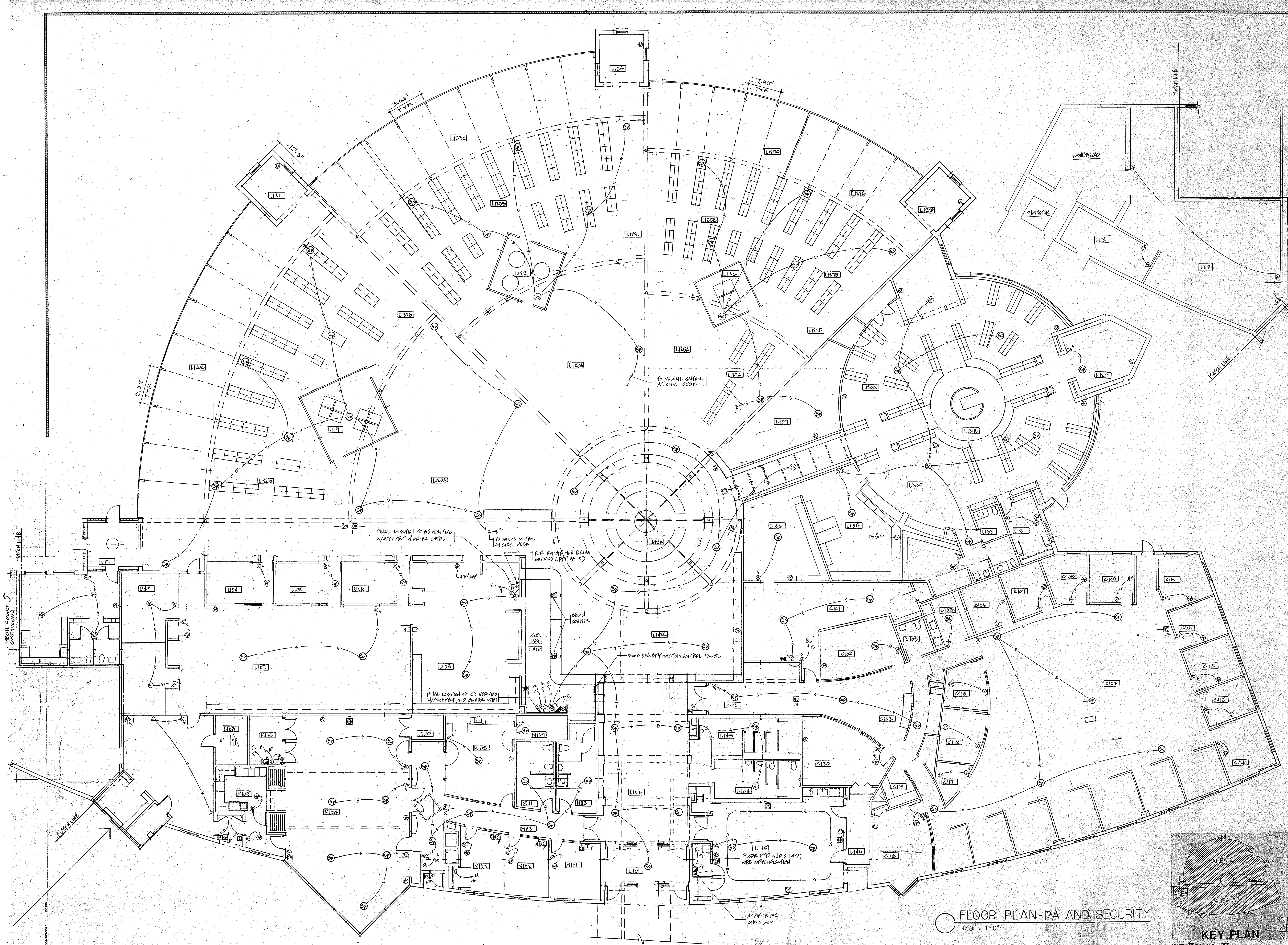
FLOOR PLAN - POWER

**E-5**

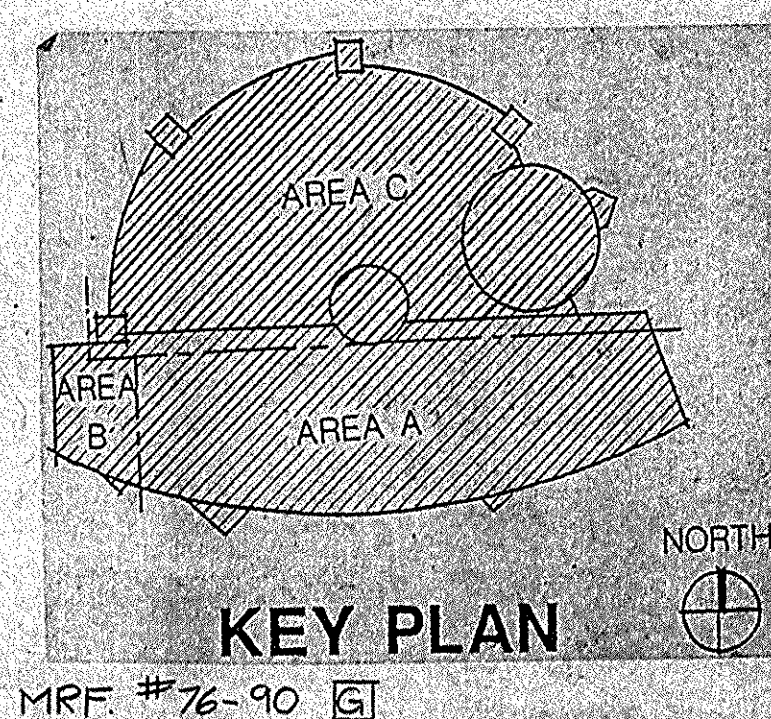
FLOOR PLAN - POWER



MRF #76-90



FLOOR PLAN-PA AND SECURITY  
 1/8" = 1'-0"



MRF #76-90

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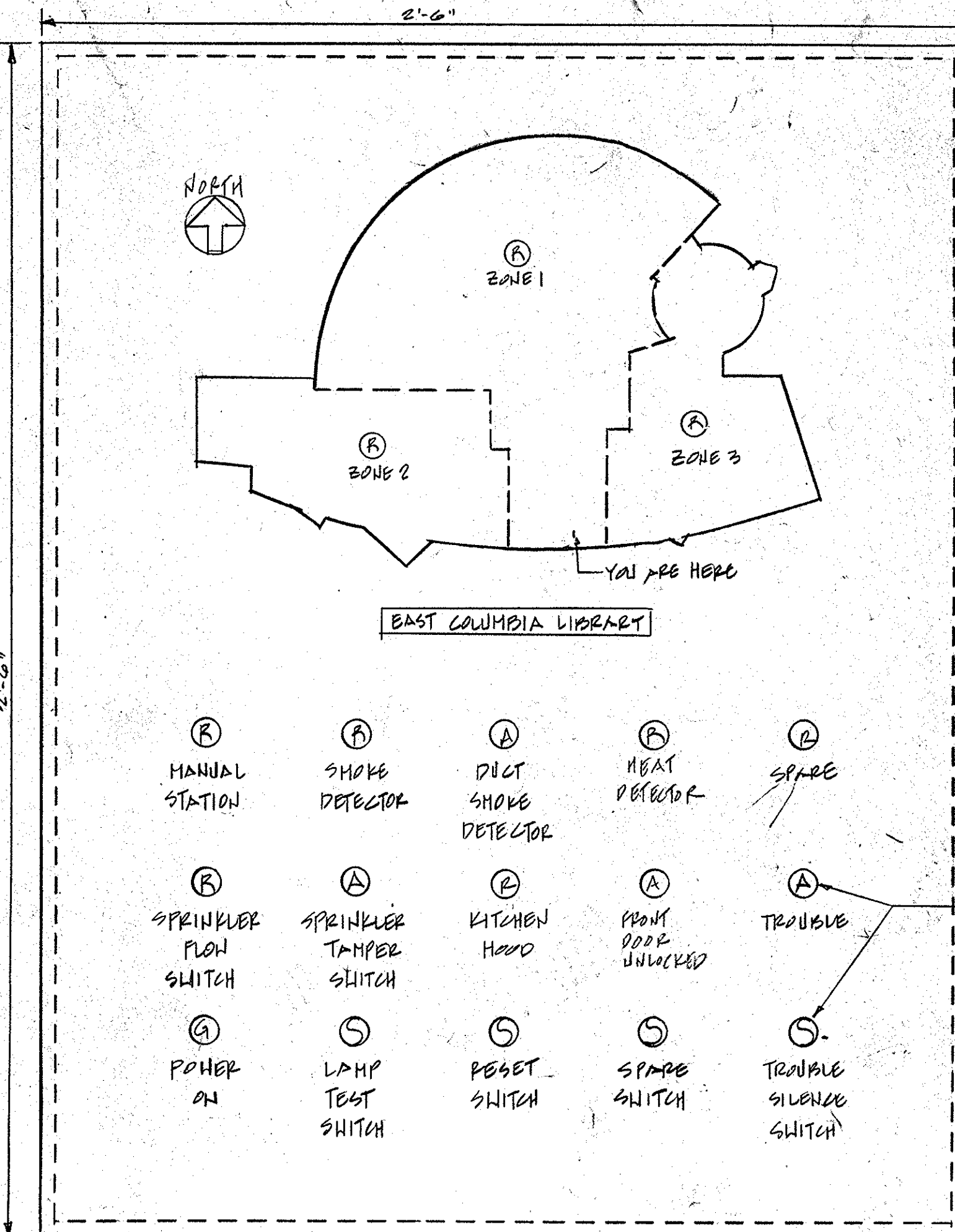
**FLOOR PLAN - PA AND SECURITY**  
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**E-6**

**LIGHTING FIXTURE SCHEDULE**

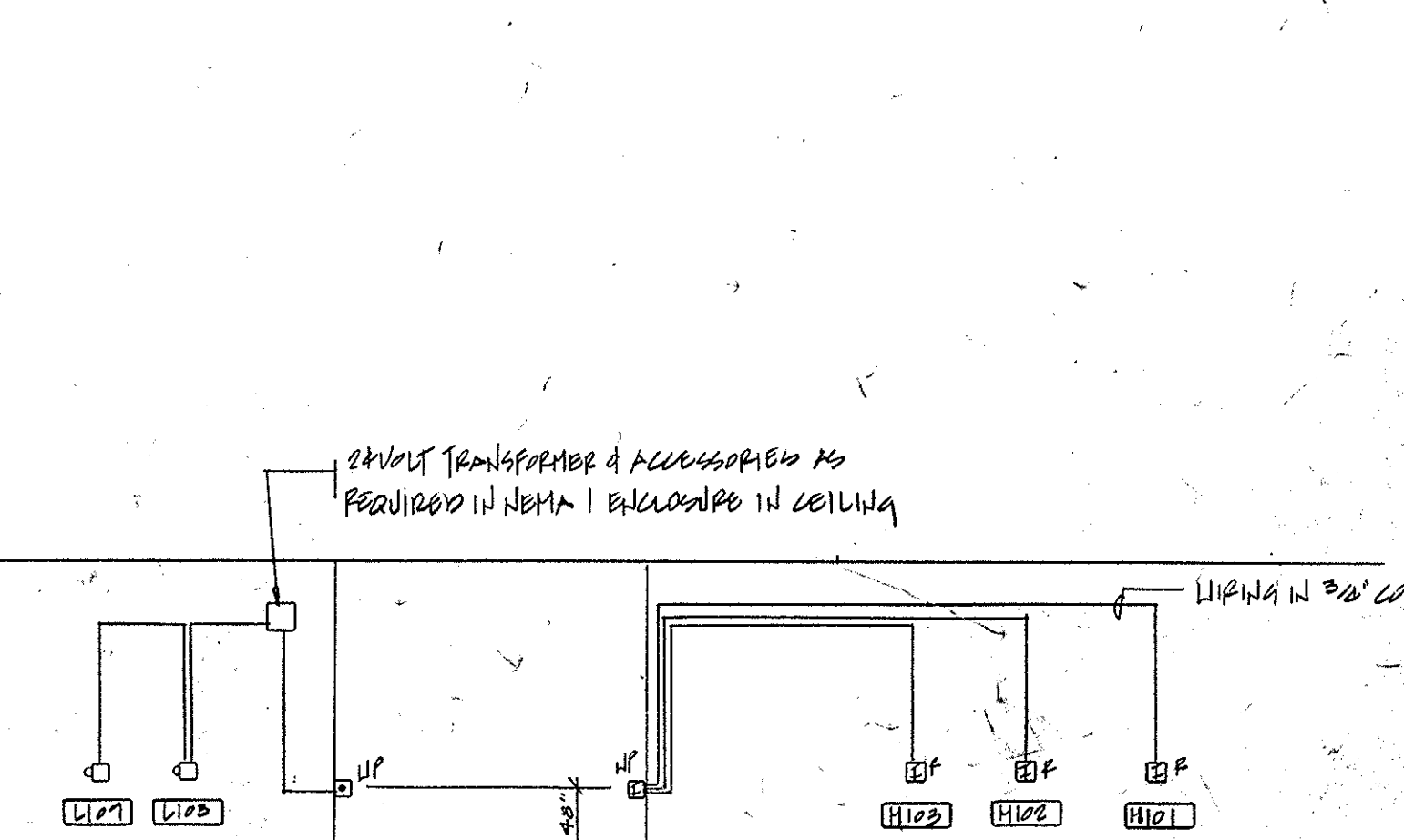
SYMBOL	FIX TYPE	MANUFACTURER CAT #	LAMP	MAINTENANCE	REMARKS
[Symbol]	A	CONST LIGHT SYSTEM * L6000-TB-L-140-2R-277	2-F092-TB-PL	PENDANT	18" O.A.F.F TO CENTER LINE OF FIXTURE
[Symbol]	B	FRAMER LIGHTING * KL1280R-H05-277	1-800H-RUAF25	SURFACE	FIXTURE HEIGHT TO CENTER LINE OF FIXTURE HEIGHT MAINTENANCE
[Symbol]	C	CONST LIGHT SYSTEM * L6011-L-ST-E-277	1-F092-TB-PL	PENDANT	18" O.A.F.F
[Symbol]	D	LITE CONTROL * P109024T3-PASS-277	2-F092-TB-PL	PENDANT	
[Symbol]	E	HUBBELL * X3-20184-F2	HUBBELL	UNIVERSAL	RECESSED MAINTENANCE AS PERMITTED SHALL BE ABOVE THIS
[Symbol]	F	CONST LIGHT SYSTEM * L6000-TB-L-140-2R-277	2-F092-TB-PL	PENDANT	18" O.A.F.F, "DIM. CIRCUIT"
[Symbol]	H	LITE CONTROL * CC-A1-20114TB-CHM-5H-277	1-F092-TB-PL	CONV	
[Symbol]	I	CONST LIGHT SYSTEM * L6000-TB-L-140-277	2-F092-TB-PL	HALL	REFER TO ARCH. DRAW FOR HGA HEIGHT, FIN. AS PER ARCH.
[Symbol]	K	LUMAX * PAC23224-204510-277	2-F092-TB-PL	RECESSED	
[Symbol]	L	LUMAX * PAC23214-204510-277	2-F092-TB-PL	RECESSED	
[Symbol]	M	LUMAX * PAC23214-204510-277	2-F092-TB-PL	RECESSED	
[Symbol]	N	INDY LIGHTING * 700R-2E-H-277	2-210-PL-PL	RECESSED	
[Symbol]	O	INDY LIGHTING * 608R-6H-5A-277	1-206-PL-PL	RECESSED	
[Symbol]	P	CONST LIGHT SYSTEM * L6000-TB-L-140-277	2-F092-TB-PL	HALL	REFER TO ARCH. DRAW FOR HGA HEIGHT, FIN. AS PER ARCH.
[Symbol]	Q	INDY LIGHTING * 608R-6H-5A-277	HUBBELL	RECESSED	
[Symbol]	R	LIGHTING SERVICES INC. * 4016-00P/02311-2016100	50HTR400 (TRIM) PL	TRACK	REF. PLANS & LAYOUT AS SHOWN ON PLANS (LOCAL CIRCUIT)
[Symbol]	S	FAHNBUSCH LIGHTING * PAL-LP-100R-H-C-277	1-2100-TA-FR0822	WALL	REFER TO ARCH. DRAW FOR HGA HEIGHT
[Symbol]	T	SUSTALITE HGA * CL-661-SC006-277	1-1511-PL-PL	WALL	REFER TO ARCH. DRAW FOR HGA HEIGHT
[Symbol]	V	INFRANOR * 833-1H-N-N-HN-175H-277-H	1-175H-HH	WALL	REFER TO ARCH. DRAW FOR HGA HEIGHT
[Symbol]	W	FRAMER LIGHTING * KL1280H-H05-277	1-250-TA-HH	SURFACE	
[Symbol]	X	STERNEK * SAT510-175H-277	1-175H-HH	PENDANT	
[Symbol]	Y	LUMAX * ST1924B-204510	1-F092H-TB-PL	SURFACE	
[Symbol]	Z	LITE CONTROL * P1-2940B31-CHM-277	4-F092H-TB-PL	PENDANT	FIN. AS TO BOTTOM OF FIXTURE
[Symbol]	AA	FRAMER LIGHTING * KL1280RTH05FF-P-277	1-150H-TA-HH	SURFACE	
[Symbol]	BB	LITE CONTROL * KL1280RTH05FF-P-277	1-F092H-TB-PL	HALL	REFER TO ARCH. DRAW FOR HGA HEIGHT
[Symbol]	CC	RECESSED LAMP HODDER - 100	1-100H-1H6	WALL/SURFACE	
[Symbol]	DD	STERNEK * 8111A102H-H5-175H-277/POLE	1-175H-HH	POLE	FINISH AS PER ARCH.
[Symbol]	EE	STERNEK * 8111A103H-H5-175H-277/POLE	1-175H-HH	POLE	FINISH AS PER ARCH.
[Symbol]	FF	STERNEK * 8111A105H-N-400H-277/POLE	1-400H-HH	POLE	FINISH AS PER ARCH.
[Symbol]	AA	STERNEK * 8111A105H-N-400H-277/POLE	2-400H-HH	POLE	FINISH AS PER ARCH.
[Symbol]	HH	HYPDEL * 9100A/HH70/277/HPL/34	1-70H-HH	N GROUND	SET PANEL 5, EMBEDDED IN CEILING OR WALL
[Symbol]	II	HYPDEL * 9100A/HH70/277/HPL/34	1-70H-HH	N GROUND	SET PANEL 5, EMBEDDED IN CEILING OR WALL
[Symbol]	JJ	LIGHTING SERVICES INC. * HR-00F-HH/80311-2016100	50HTR400 PL	TRACK	REF. PLANS & LAYOUT AS SHOWN ON PLANS (LOCAL CIRCUIT)
[Symbol]	KK	STERNEK * PD44-4010-120VAC	1-120H-1H6	BOLLARD	LAMP PROVIDED BY MANUFACTURER, (TEMPERATURE SENSITIVE LAMP) REFER TO ARCH. DRAW FOR HGA HEIGHT & FIN.
[Symbol]	LL	LIGHTING SERVICES INC. * HR-5A-HH-277	1-50HTR-2-N6P	WALL	
[Symbol]	MM	LITE CONTROL * CC-A1-20114TB-CHM-5H-277	1-F092-TB-PL	SURFACE	
[Symbol]	NN	CONST LIGHT SYSTEM * L6000-TB-L-140-277	2-F092-TB-PL	HALL	REFER TO ARCH. DRAW FOR HGA HEIGHT, FIN. AS PER ARCH.
[Symbol]	OO	FAHNBUSCH LIGHTING * PAL-LUX-277	1-175H-RUAF25	WALL	REFER TO ARCH. DRAW FOR SPECIAL HGA DETAIL & HEIGHT
[Symbol]	PP	INDY LIGHTING * 8100H-BK-277	1-100H-011-HH	RECESSED	
[Symbol]	RR	LITE CONTROL * CC-A1-20114TB-CHM-5H-277	1-F092-TB-PL	CONV/CONV	
[Symbol]	SS	STERNEK * ME42A-CL100H-277-B	1-100H-HH	BOLLARD	
[Symbol]	SS	MARCO * BFA3-40-277	1-131H-FR011	WALL	17" O.A.F.F
[Symbol]	TT	INDY LIGHTING * 8032M-BK-277V	1-32H-EIT	RECESSED	17" O.A.F.F
[Symbol]	UU	FLUORESCENT FIXTURE FINISHED W/ DISPLAY CASE	N DISPLAY CASE	N DISPLAY CASE	VERIFY DISPLAY CASE AS PER ARCH. VERIFY VENTING REQUIREMENTS
[Symbol]	VV	FAHNBUSCH LIGHTING * PAL-LUX-277	1-100H-RUAF25	WALL	REFER TO ARCH. DRAW FOR HGA HEIGHT
[Symbol]	WW	HYPDEL * 9100A/HH70/277/HPL/34	1-70H-HH	N GROUND	SET PANEL 5, EMBEDDED IN CEILING OR WALL
[Symbol]	XX	SIMBO * ML-N-PAR30-1800-SS-F (LITE BUBBLE)-E-N-277	1-1800PL44-HH	WALL	REFER TO ARCH. DRAW FOR HGA HEIGHT, FIN. AS PER ARCH.
[Symbol]	YY	LUMAX * PAC23214-204510-277	2-F092-TB-PL	RECESSED	
[Symbol]	ZZ	INDY LIGHTING * 608R-6H-5A-100-HFF	1-91H-PL-PL	RECESSED	
[Symbol]	AA	HUBBELL * HUBBELL * HL227-20-2-277	2-131H-PL-PL	SURFACE	
[Symbol]	BB	LUMAX * S1-3-32-24-20-4-FA-20	3-32H-TB-PL	SURFACE	
[Symbol]	CC	HYPDEL * 4799 PL - 40-120	1-PL-40-H-PL	N GROUND	
[Symbol]	DD	LUMAX * CG24040-204510/CS-W40P/TD	2-F092H-TB-PL	WALL (INFRANCE/ PENDANT)	AS PERMITTED BY FIELD CONDITIONS
[Symbol]	EE	HUBBELL * H6-6-25-2-242H-145	2-12H-HM00W	WALL	17" O.A.F.F AS PER ARCH.
[Symbol]	FF	FAHNBUSCH LIGHTING * PAL-LP-100R-H-C-277	1-2100-TA-FR0822	WALL	REFER TO ARCH. DRAW FOR HGA HEIGHT
[Symbol]	GG	INFRANOR * 833-1H-N-N-HN-175H-277-H	1-175H-HH	SURFACE	REFER TO ARCH. DRAW FOR SPECIAL HGA DETAIL & HEIGHT
[Symbol]	HH	LUMAX * VR2324B-201PS-150V	2-F092-TB-PL	SURFACE	
[Symbol]	II	INFRANOR * 833-1H-N-N-HN-175H-120	1-175H-HH	SURFACE	REFER TO ARCH. DRAW FOR HGA HEIGHT, FIN. AS PER ARCH.

**NOTES:**  
 1. ALL FINISHED TO BE DELIVERED AS PER ARCH.  
 2. FLUORESCENT FIXTURES ON DOUBLE SWITCHING SHALL HAVE TWO (2) BALLASTS.  
 3. CONTRACTOR TO PROVIDE EXTRA 10 BATTERY BACKUPS (TYPE B) AND INSTALLED AS DIRECTED BY AUTHORITY HAVING JURISDICTION. THESE BACKUPS SHALL BE RATED AT 277V.

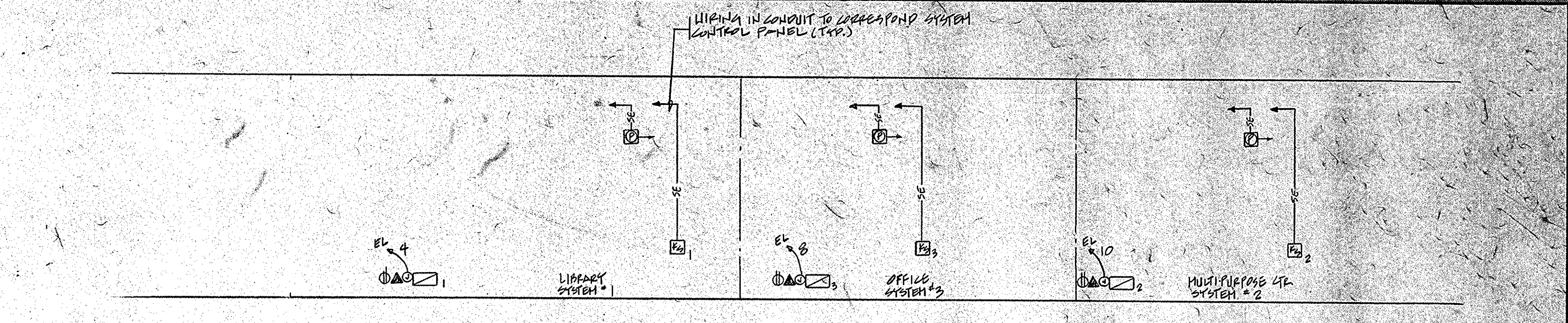
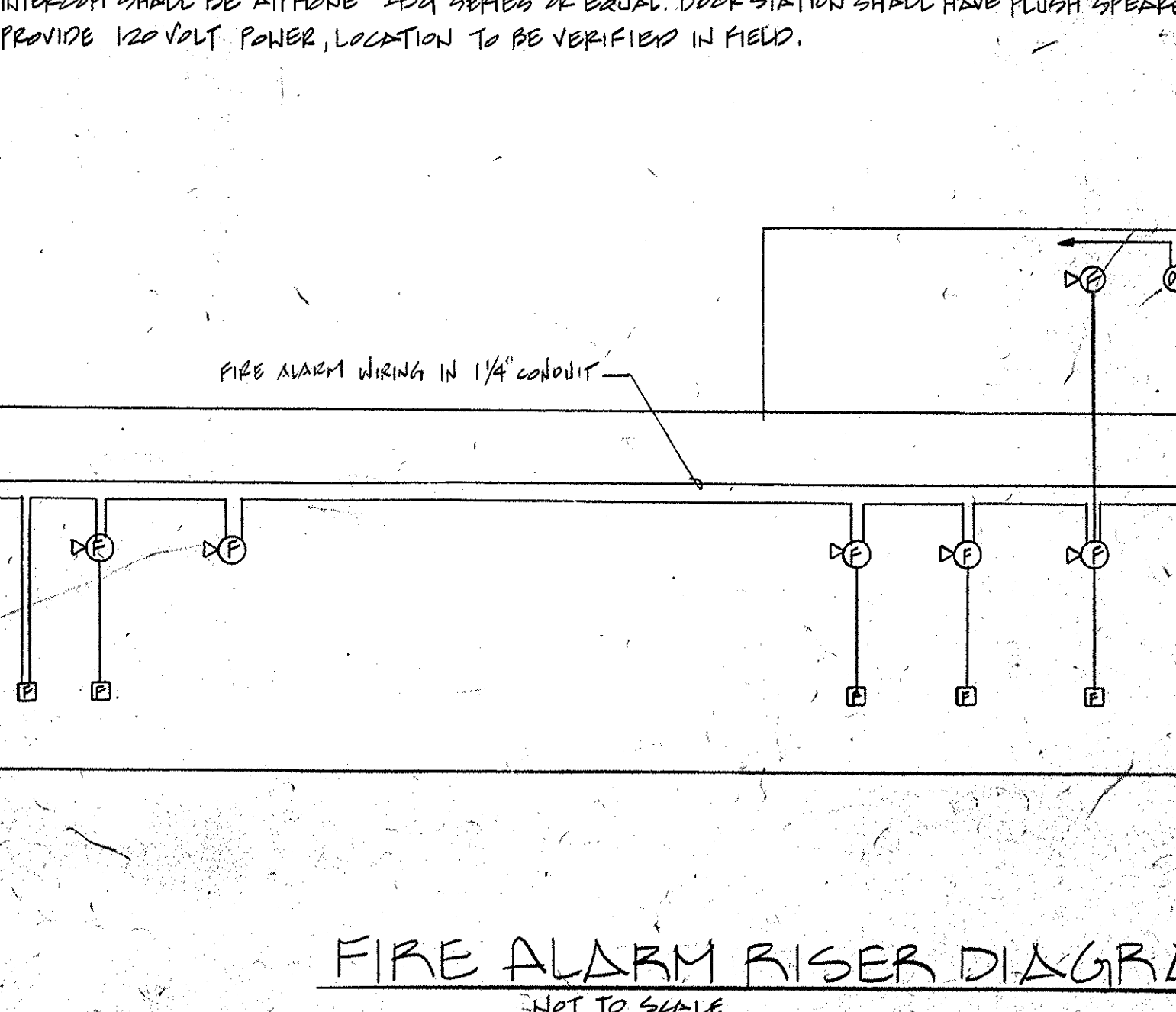


**FIRE ALARM ANNUNCIATOR PANEL**  
NOT TO SCALE

**FIRE ALARM SYSTEM NOTES:**  
 1. WHEN THERE IS A POWER FAILURE IN THE BUILDING, SLIDING GLASS DOORS AT FRONT ENTRANCE SHALL OPERATE AS PIVOTAL DOORS. ALL ALARM DOORS AT FRONT ENTRANCE SHALL BE UNLOCKED. ALSO SEE SECURITY SYSTEM REFER DRAWING NOTE #2.  
 2. NUMBER OF EXACT FIRE ALARM DEVICES SHALL REFER TO ELECTRICAL PLANS. NUMBER OF EXACT SPINKLER SYSTEM DEVICES SHALL REFER TO SPINKLER DRAWINGS. NUMBER OF EXACT DUCT SMOKE DETECTORS SHALL REFER TO MECHANICAL DRAWINGS.  
 3. PROVIDE CONNECTIONS TO REMOTE MONITORING SERVICES OF FIRE DEPARTMENT AS PERMITTED BY OWNER.



**NOTES:**  
 1. INTERCOM SHALL BE AIRPLANE \* 154 SERIES OR EQUAL. DOOR STATION SHALL HAVE FLUSH SPEAKER, HP TYPE.  
 2. PROVIDE 120 VOLT POWER, LOCATION TO BE VERIFIED IN FIELD.



**NOTES:**  
 1. NUMBER OF DEVICES AS SHOWN ON DRAWING E-6  
 2. FIRE ALARM SYSTEM SHALL OVERRIDE SECURITY SYSTEM WHEN ACTIVATED. EXIT DOOR LOCKS SHALL BE RELEASED UNDER FIRE ALARM ACTIVATION.  
 3. ALL WIRING SHALL BE IN MINIMUM 3/4" EMT, CONDUIT  
 4. PROVIDE CONNECTIONS TO REMOTE MONITORING SERVICES OF POLICE DEPARTMENT AS PERMITTED BY OWNER. PROVIDE DIALER & ALL ACCESSORIES AS PERMITTED.

**PANEL SCHEDULE**

PANEL NO.	SERVING	CIRCUIT BREAKER		WIRE/CONDUIT	SERVING	CIRCUIT BREAKER		WIRE/CONDUIT
		TYPE	TRIP FRAME			TYPE	TRIP FRAME	
PANEL "EL": 100AMP; 120/240V-1P, 2W 1/4" AMP M.C.B.				SUBF. HGA	PANEL "EH": 60 AMP; 277 VOLT 1P	W/ 50AMP M.C.B.		CONDUIT IN TYPE AT CABINET
1, 3	F.A.C.P.	1	20	100	3/12 + 1/12 AND 3/16			
4, 8, 10	SECURITY SYSTEM	1	20	100	3/10 + 1/10 AND 3/16			
5, 7, 9	SOUND SYSTEM	1	20	100	3/10 + 1/10 AND 3/16			
6	LIBRARY INVENTORY SECURITY SYSTEM	1	20	100	3/10 + 1/10 AND 3/16			
8, 11, 14	TELEPHONE SYSTEM	1	20	100	3/10 + 1/10 AND 3/16			
15, 17	KITCHEN HOOD EXHAUSTING SYSTEM	1	20	100	1/2" - 3/4"			
16, 18, 20	SPACES			100				
21-30	SPACES ONLY			100				

**ELECTRICAL PANEL MINIMUM ASC RATING**

PANEL(S)	MINIMUM ASC RATING
PANELS "LA", "LM", "LS", "CA", "CL", "LL" & "EL"	10,000 ASC
PANELS "HL" & "HM"	14,000 ASC
PANEL "MP"	65,000 ASC
PANEL "EH" (CONDUIT INTO INVERTER CABINET)	14,000 ASC

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EQUIPMENT SCHEDULE

Table with columns: ITEM, DESCRIPTION. Lists various electrical equipment such as VAV boxes, fans, heaters, compressors, and switches.

Table with columns: ITEM, DESCRIPTION. Continues the list of electrical equipment, including pumps, relays, and control units.

Table with columns: CKT. NO., SERVING, CIRCUIT BREAKER (POLES, TRIP, FRAME), WIRE/CONDUIT (TYPE, SIZE). Lists circuit breaker and conduit specifications.

PANEL SCHEDULE

Table with columns: CKT. NO., SERVING, CIRCUIT BREAKER, WIRE/CONDUIT. Lists panel schedules for various panels (e.g., PANEL 'HL', PANEL 'LL', PANEL 'CL', PANEL 'HM', PANEL 'LH', PANEL 'LA', PANEL 'LB', PANEL 'LC', PANEL 'LL', PANEL 'LM', PANEL 'LN', PANEL 'LO', PANEL 'LP', PANEL 'LS', PANEL 'LT', PANEL 'LU', PANEL 'LV', PANEL 'LW', PANEL 'LX', PANEL 'LY', PANEL 'LZ').

Vertical text on the right side of the page, including 'MENDOZA, RIBAS, FARINAS & ASSOC.', 'G R I M M A N D P A R K E R', 'EAST COLUMBIA LIBRARY', and 'HOWARD COUNTY MARYLAND'.

### POWER RISER DIAGRAM SCHEDULE

ITEM	DESCRIPTION	LOCATION	ITEM	DESCRIPTION	LOCATION
1	277/480V 3P 4W UNDERGROUND INCOMING ELECTRICAL SERVICE (CONDUIT PROVIDED 2" x 4" PVC SCHEDULE 40 CONDUIT MINIMUM 30" BELOW FINAL GRADE W/ 2" CONCRETE TO RISE MOUNTED TRANSFORMER)	OUTSIDE SEE SITE PLAN	20	4" 600KCMIL + 1" 2 INSULATED AROUND IN 4" CONDUIT	TO XHP
2	1500 AMP 277/480V 3P 4W C/T CABINET WITH ENCLOSURE	ELECT. RM.	21	4" 250KCMIL + 1" 2 INSULATED AROUND + 1" 2 AND IN 3" CONDUIT	TO PHL "CL"
3	METER SOCKET WITH NEMA 9R ENCL. VERIFY OTHER REQUIREMENTS WITH P.E.A. E. FEED TO ROOM IN	EXTERIOR WALL OF ELECTRICAL ROOM	22	3" x 1/2" IN 3/4" CONDUIT	TO PHOTOCELLS
4	GROUND AS PER ARTICLE 250 OF THE N.E.C. AS A MINIMUM PROVIDE 3/0 CU. GROUND TO BUILDING STEEL, NEARBY WATER SERVICE & 2" 3/4" x 10'-0" AROUND R.O.D.	ELECT. RM.	23	1 1/2" EMPTY CONDUIT W/ FULL WIRES FOR G. G. A. B. METER	TO METER SOCKET
5	MAIN DISTRIBUTION PANEL "MDP" - 800 AMP 277/480V 3P 4W 1/150 AMP MAIN CIRCUIT BREAKER, U.L. RATED FOR SERVICE EQUIPMENT	ELECT. RM.	24	NOT USED	
6	LIGHTING MANAGEMENT PANEL "LM" - 225 AMP 3P 4W 120/208V 277/480V 3P 4W MAIN WGS ONLY, MICROLOGIC # 500R OR EQUAL	ELECT. RM.	25	8.0 kVA SINGLE PHASE WALL MOUNTED OXY TYPE TRANSFORMER, 277VOLT PRIMARY, 120/208V SECONDARY W/ 2.5% TAP BELOW RATED PRIMARY VOLTAGE	ELECT. RM.
7	12" x 12" x LENGTH AS REQUIRED SERVICE TROUGH W/ COVER PLATE	ELECT. RM.	26	3" x 1/2" 2" AND IN 3/4" CONDUIT	TO FACT
8	TIME SWITCH, PARAGON # EC-74 OR EQUAL	ELECT. RM.	27	EMERGENCY PANEL "EP" PAINTED IN RED (120/240V)	ELECT. RM.
9	PHOTO CONTROL SWITCH, NUMBER AS REQUIRED	EXTERIOR WALL	28	EMERGENCY MAIN SWITCH, 60 AMP 277VOLT U.L. RATED FOR SERVICE EQUIPMENT. SWITCH SHALL BE PAINTED IN RED. FUSES SHALL BE 50 AMP	ELECT. RM.
10	DRY-TYPE TRANSFORMER FOR GENERAL POWER OUTLETS, 120V LIGHTING, ETC. - 112.5 kVA 480V PRIMARY, 120/208V 3P 4W SECONDARY	ELECT. RM.	29	2" x 1/2" 2" AROUND IN 1" CONDUIT	TO INVERTER
11	120/208V PANEL "L" - 400 AMP DOUBLE PANEL W/ 400 AMP MAIN CIRCUIT BREAKER	ELECT. RM.	30	EMERGENCY PANEL "EM" 277VOLT EMERGENCY TYPE AT CABINET OF INVERTER	ELECT. RM.
12	DRY-TYPE ISOLATION TRANSFORMER FOR COMPUTER EQUIPMENT 75.0 kVA 480V PRIMARY, 120/208V 3P 4W SECONDARY	ELECT. RM.	31	GROUNDING AS PER ARTICLE 250 OF THE N.E.C.	
13	FIRE ALARM CONTROL PANEL W/ BATTERY BACK-UP	ELECT. RM.	32	MECHANICAL PANEL "LS" - 225 AMP 120/208V 3P 4W MAIN WGS ONLY	MECH. RM.
14	MECHANICAL PANEL "MH" - 400 AMP 277/480V 3P 4W MAIN WGS ONLY	MECH. RM.	33	INVERTER W/ BATTERY & BATTERY CABINET 277VOLT, 1P INPUT / 277VOLT, 1P OUTPUT, 10,000VA, 70 MINUTES BACK-UP CAPACITY, SEE SPECIFICATION	ELECT. RM.
15	COMPUTER EQUIPMENT PANEL "CU" - 400 AMP 120/208V 3P 4W DOUBLE PANEL W/ 250 AMP MAIN CIRCUIT BREAKER & INSULATED GROUND WGS	ELECT. RM.	34	2" x 10" 1" 2" AROUND IN 3/4" CONDUIT	TO XHP
16	MULTI-PURPOSE CENTER PANEL "LM" - 225 AMP 120/208V 3P 4W 1/150 AMP MAIN CIRCUIT BREAKER	MULTI-PURPOSE RM.	35	3" x 2" 1" 2" AROUND IN 1" CONDUIT	TO PANEL "EL"
17	CENTRAL SERVICES 120/208V PANEL "LA" - 225 AMP 120/208V 3P 4W 1/150 AMP MAIN CIRCUIT BREAKER	CENTRAL SERVICES	36	3P 600VOLT 600AMP DISCONNECT SWITCH W/ 500AMP FUSES SWITCH SHALL BE U.L. RATED FOR SERVICE EQUIPMENT	ELECT. RM.
18	CENTRAL SERVICES COMPUTER EQUIPMENT PANEL "CA" - 100 AMP 120/208V 3P 4W 1/100 AMP MAIN CIRCUIT BREAKER	CENTRAL SERVICES	37	3" x 500 KCMIL + 1" 1/2" AROUND IN 3 1/2" CONDUIT	TO CHILLER
19	SERVICE ENTRANCE TRANSIENT VOLTAGE SUPPRESSOR WITH STATUS ALARM MONITOR, SURGE COUNTER AND AUDIBLE ALARM. L.B.A. SYNTECT MODEL # 3PH-PLUS - 277/480VOLT 3P-4W OR EQUAL	ELECT. ROOM	38	2 SECS OF 4" 500 KCMIL + 1" 1/2" AROUND IN 4" CONDUIT	TO PANEL "MDP"
			39	SEE PANEL SCHEDULE FOR PANEL SIZE	TO PHL AS SHOWN
			40	PANEL "EL" - SEE PANEL SCHEDULE	SITE FAC. BLDG.
			41	METER SOCKET (LENGTH OR ENCLOSURE)	SITE FAC. BLDG.
			42	3" x 2" 1/2" AND IN 1 1/4" CONDUIT	SITE FAC. BLDG.
			43	120/208VOLT 1P-3PH UNDERGROUND INCOMING ELECTRICAL SERVICE (CONDUIT PROVIDED 1-1/2" PVC SCHEDULE 40 CONDUIT MIN 30" BELOW FINAL GRADE TO BUILDING STEEL AND WATER SERVICE AND 1-3/4" x 10'-0" AROUND R.O.D.	SITE FAC. BLDG.
			44		

### DATA/COMPUTER SYMBOLS

- MICROFILM READERS
- MICROFILM READER
- ON-LINE COMPUTER CATALOG TERMINALS W/ PRINTER
- MEMO AREA COMPUTER CATALOG TERMINALS W/ PRINTER
- CD-ROM TERMINAL W/ PRINTER

### UNDERFLOOR DUCT SYSTEM SYMBOLS

- UNDERFLOOR DUCT SYSTEM W/ THREE (3) 2" WALKER DUCT IN PARALLEL
- UNDERFLOOR DUCT SYSTEM W/ ONE (1) 2" WALKER DUCT FOR POWER ONLY

### UNDERFLOOR DUCT SYSTEM ACTIVATION DEVICES

- INDICATES PARALLELABLE (PLS/OXA) (SLIDES) FOR COMPUTER TERMINAL W/ PRINTER CONNECTIONS
- INDICATES PARALLELABLE (PLS/OXA) (SLIDES) FOR READERS CONNECTION
- INDICATES ISOLATED GROUND DUPLEX RECEPTACLE IN PARALLELABLE ALPHABET COVER FOR POWER CONNECTIONS. "S" INDICATES SAFETY TYPE

### SECURITY/INTERCOM/DOOR BELL SYSTEM SYMBOLS

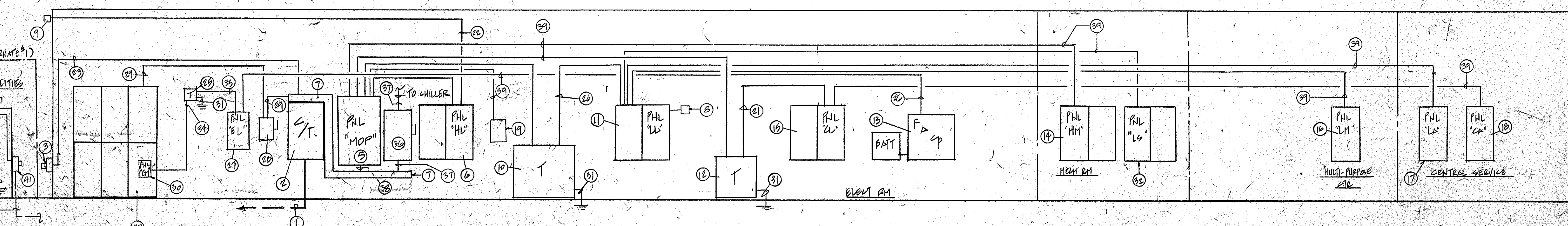
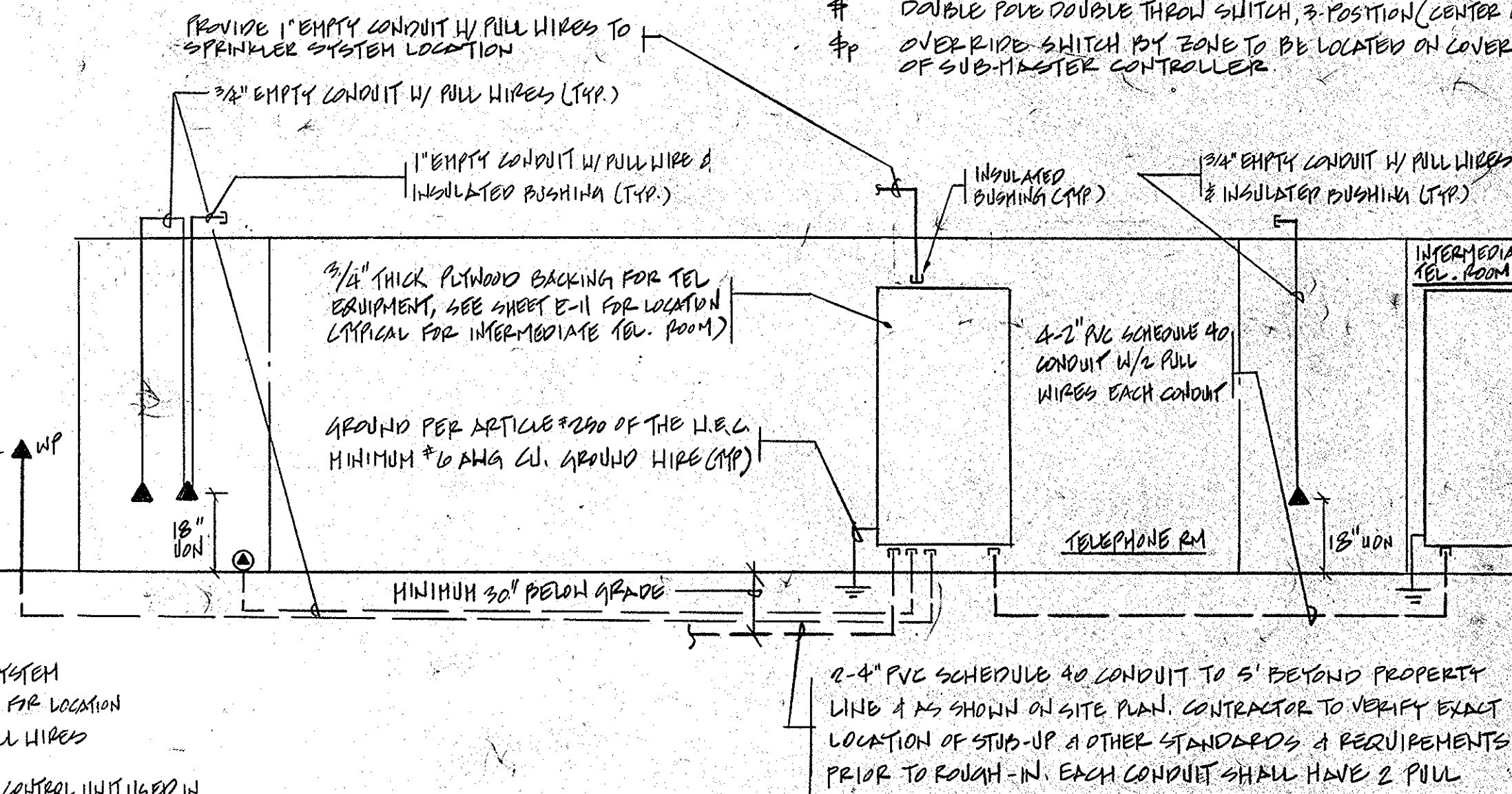
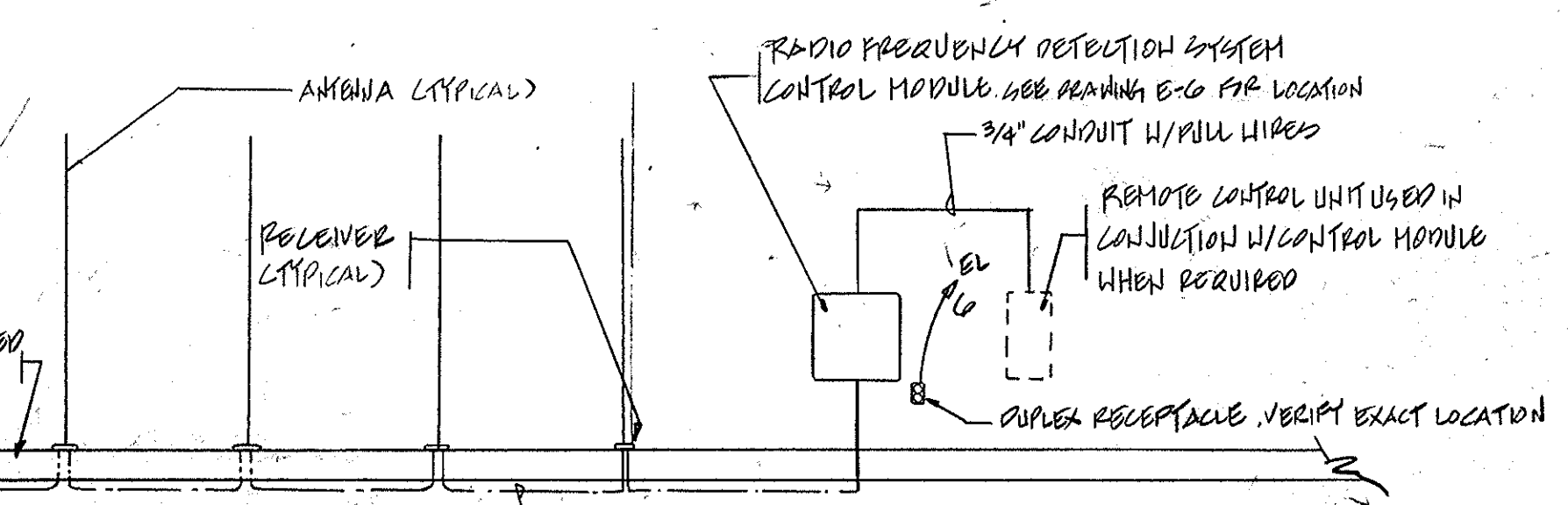
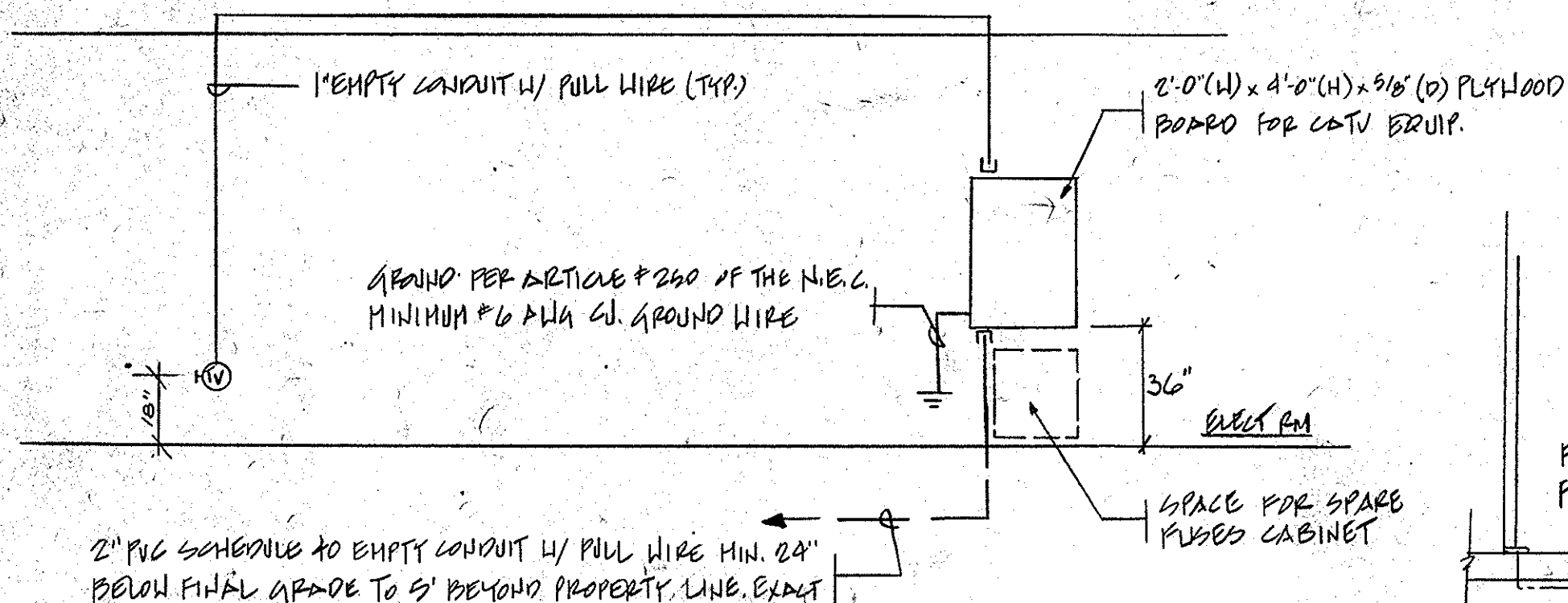
- KEYPAD/SHUNT DEVICE, +48" AFF. NO. INDICATES KEYPAD TO BE CONNECTED TO SECURITY SYSTEM NUMBER #1
- SECURITY SYSTEM WIRING IN CONDUIT
- PASSIVE INFRARED MOTION DETECTOR
- SYSTEM CONTROL PANEL, NUMBER INDICATES SECURITY SYSTEM NUMBER #1
- DOOR BELL PUSH BUTTON, EDWARDS (24V) #17066
- DOOR BELL 6" x 6" BELOW CEILING, EDWARDS (24V) #340-445
- INTERCOM/DOOR STATION, MOUNTED +48" ABOVE FINISHED FLOOR
- INTERCOM/DOOR STATION, OVER TOP TYPE WITH 25 FEET EXTENSION WIRE, MOUNT SHALL BE +18" AFF. CEILING

### AUTOMATED SHADING SYSTEM SYMBOLS

- SHADE MOTORS
- SHADE MOTOR LEADS TO MOTOR
- DISCONNECT PLUG
- JUNCTION BOX LEADS (5'-0" ± LONG)
- THREE (3) WIRES + GROUND
- MOTOR LOGIC CONTROLLER "MASTER" (8" x 8" x 4" DEEP)
- MOTOR LOGIC CONTROLLER "SLAVE" (8" x 8" x 4" DEEP)
- SUB MASTER CONTROLLER (MAC-PC INTERFACE)
- MAC-PC COMPUTER
- PHOTOCELL
- DOUBLE PIVOT DOUBLE THROW SWITCH 3 POSITION (CENTER OFF)
- OVERRIDE SWITCH BY JUNE TO BE LOCATED ON COVER OF SUB MASTER CONTROLLER

### SYMBOLS LIST

- FLUORESCENT LIGHTING FIXTURE
- SUSPENDED FLUORESCENT LIGHTING FIXTURE
- INDIRECT FLUORESCENT LIGHT FIXTURE
- INCANDESCENT, COMPACT FLUORESCENT OR LED LIGHTING FIXTURE CEILING OR WALL MOUNTED
- SUSPENDED LIGHT FIXTURE FOR TOWER
- LIGHT FIXTURE AT LIGHT LIGHT CIRCUIT
- EXIT LIGHT
- SINGLE POLE TOGGLE SWITCH 125V OR 277V - 20AMP +48" AFF.
- THREE-WAY SWITCH 125V OR 277V - 20AMP +48" AFF. EXCEPT AS REQUIRED
- DIHNER SWITCH WITH NOVA-T SERIES +48" AFF., 125V OR 277V AS PER CODE
- MOTOR RATED SWITCH WITH THERMAL ELEMENT
- DUPLEX RECEPTACLE 125V - 20AMP + 18" AFF. U.O.N.
- DUPLEX RECEPTACLE 125V - 20AMP + 18" AFF. U.O.N. WITH GROUND FAULT PROTECTION & W/ COVER
- DUPLEX RECEPTACLE W/ BUILT-IN GROUND FAULT PROTECTION 125V - 15AMP +48" AFF. U.O.N.
- DOUBLE DUPLEX RECEPTACLE 125V - 20AMP + 18" AFF. U.O.N.
- ROCKER RECEPTACLE +24" AFF. EXCEPT AS REQUIRED
- KILL RECEPTACLE +24" AFF. EXCEPT AS REQUIRED
- DUPLEX RECEPTACLE 125V - 20AMP PULL FLOOR MOUNTED
- JUNCTION BOX - WALL, WALL/CEILING MOUNTED - SIZE AS REQUIRED
- MOTOR CONNECTION
- EXHAUST FAN - FRACTIONAL HORSEPOWER
- UNIT, METER CONNECTION
- DUCT SMOKE DETECTOR
- TV ANTENNA, +18" AFF.
- SMOKE DETECTOR, CEILING MOUNTED
- FLOOR SWITCH (SPRINKLER SYSTEM)
- TAMPER SWITCH (SPRINKLER SYSTEM)
- EXTERIOR FIRE ALARM SONS - 10" x 10" WEATHERPROOF EACH SIDE
- FIRE ALARM STATION +48" AFF.
- FIRE ALARM BELL W/ FLASHING LIGHT +7'-6" AFF.
- DISCONNECT SWITCH OR COMBINATION SWITCH/DISCONNECT SWITCH, EXCEPT AS NOTED
- BRANCH CIRCUIT CONCEALED IN WALL OR CEILING
- BRANCH CIRCUIT CONCEALED IN FLOOR OR HALL
- HOMERUN TO PANEL BOARD, ARRANGEMENT DENOTES NO. OF CIRCUITS, CROSSLINES DENOTES NO. OF WIRE, NATURAL CONDUCTORS WHEN MORE THAN 2
- VAN BOX CONNECTION W/ BUILT-IN FUSE DISCONNECT SWITCH
- ELECTRIC WATER COOLER
- TELEPHONE OUTLET, +18" AFF. U.O.N. / FINISH FLOOR MOUNTED
- CLOCK OUTLET, +7'-6" AFF. MINIMUM U.O.N.
- EQUIPMENT DESIGNATION - SEE SCHEDULE
- ABOVE FINISH FLOOR
- W.P. WEATHERPROOF
- U.O.N. UNLESS OTHERWISE NOTED
- WALL MOUNTED UP OR DOWN LIGHT FIXTURE
- STUD-UP DUPLEX RECEPTACLE W/ BUILT-IN AND FAULT PROTECTION W.P. COVER 125V - 20AMP +48" ABOVE FINISHED GRADE
- E.B. EMERGENCY BATTERY PACK, WALL MOUNTED
- "S" INDICATES ISOLATED GROUND TYPE; "3" INDICATES SAFETY TYPE



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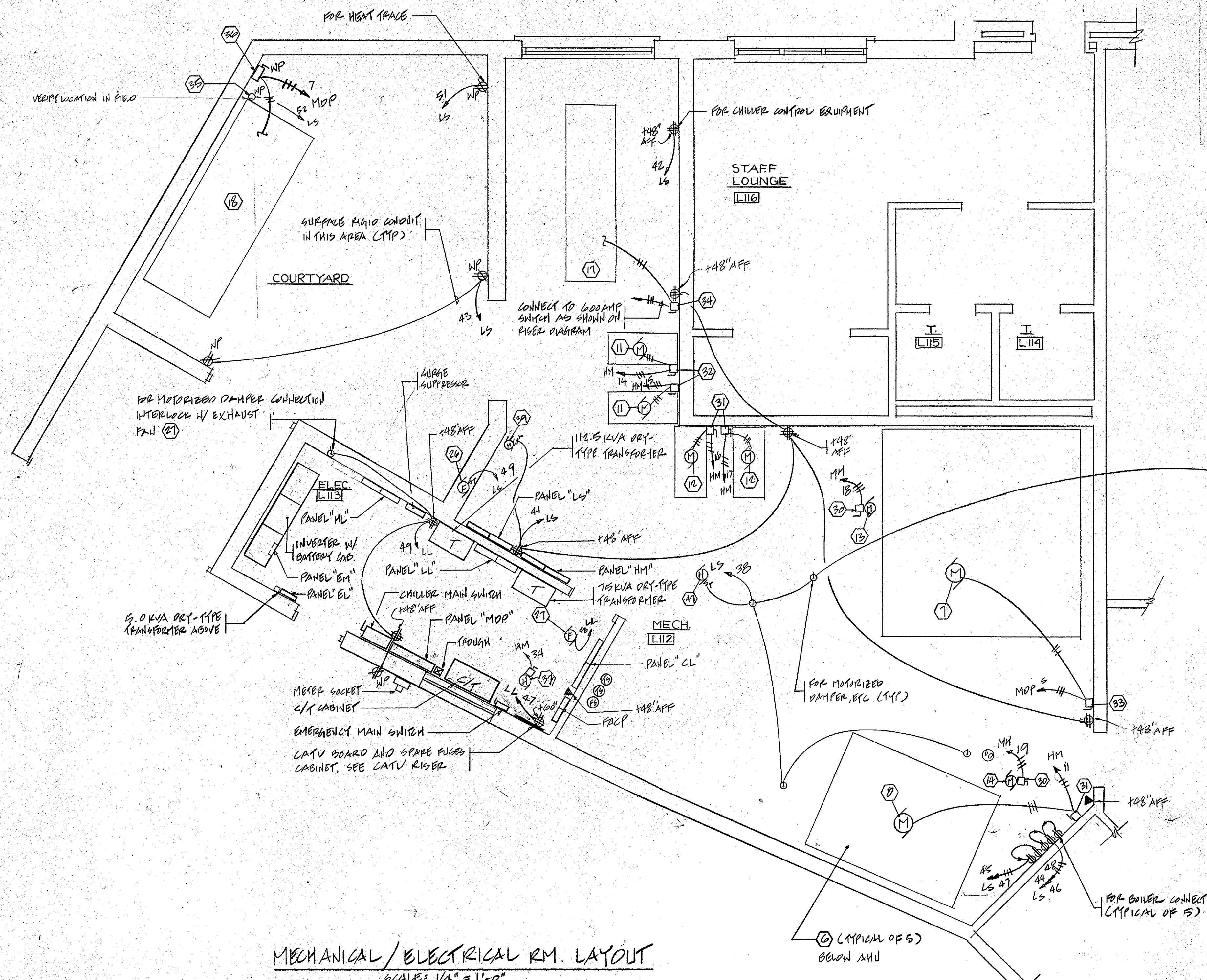
SYMBOLS, SCHEDULES, RISER DIAGRAMS & DETAILS

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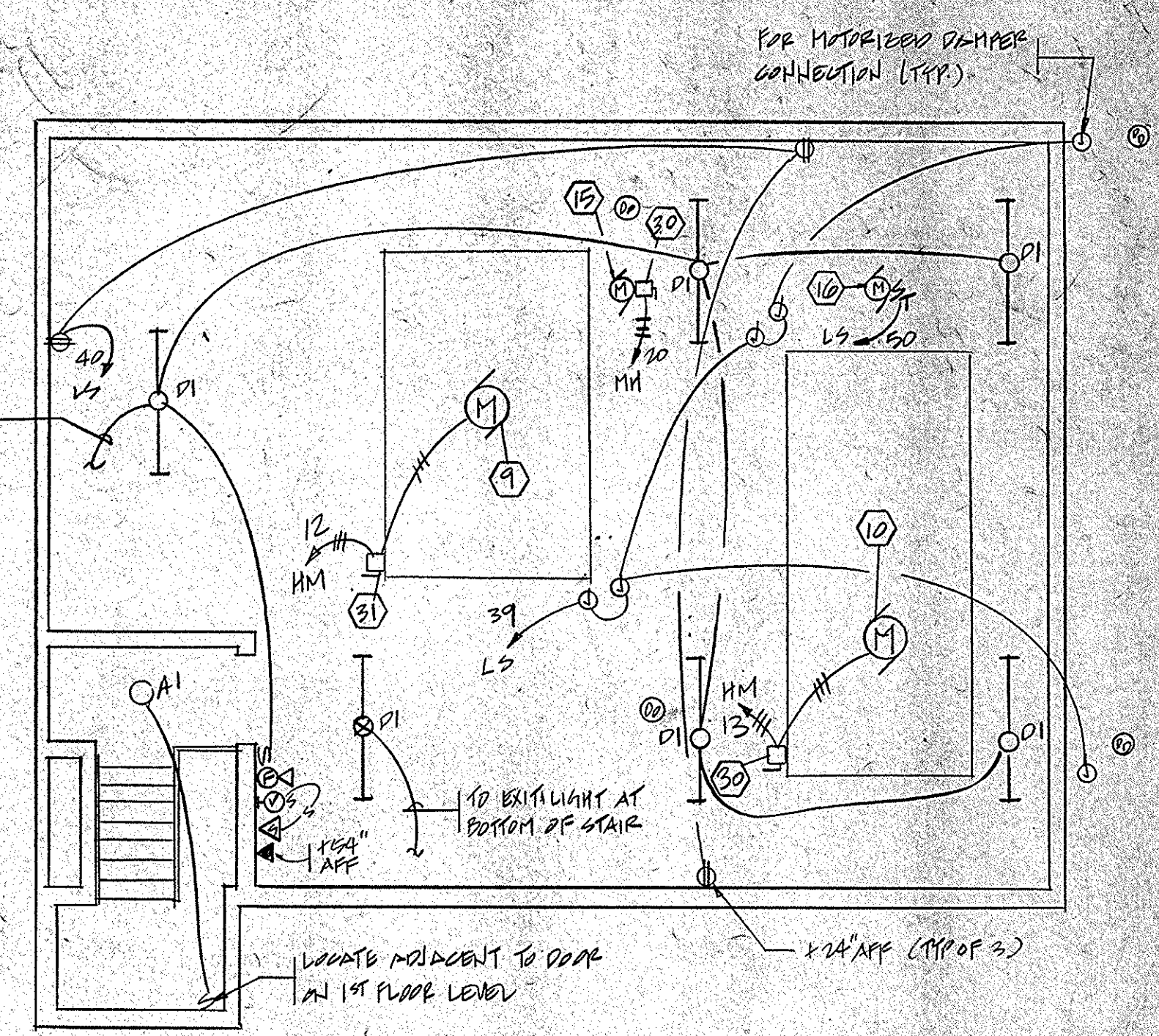
**UNDERFLOOR ELECTRICAL SYSTEMS NOTES**

- COORDINATE ALL UNDERSLAB ELECTRICAL ITEMS PRIOR TO THE POURING OF CONCRETE SLABS. THIS INCLUDES, BUT IS NOT LIMITED TO, SHOP DRAWING SUBMITTALS OF ALL UNDERFLOOR ELECTRICAL RACEWAYS (WITH DIMENSIONS COORDINATED WITH STRUCTURAL DRAWINGS). WORK IN THESE AREAS SHALL NOT PROCEED UNTIL APPROVAL OF LOCATION OF UNDERFLOOR ELECTRICAL RACEWAYS/DUCTS HAS BEEN RECEIVED.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING, BUT NOT LIMITED TO, ITEMS SUCH AS MOUNTING HEIGHTS, MOUNTING CENTER LINES, FLUSH MOUNTINGS, SURFACE MOUNTINGS, AND CONCEALED CONDUIT IN STRUCTURAL MEMBERS.
- ANY QUESTIONS SHOULD BE DIRECTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE COMMENCEMENT OF WORK.



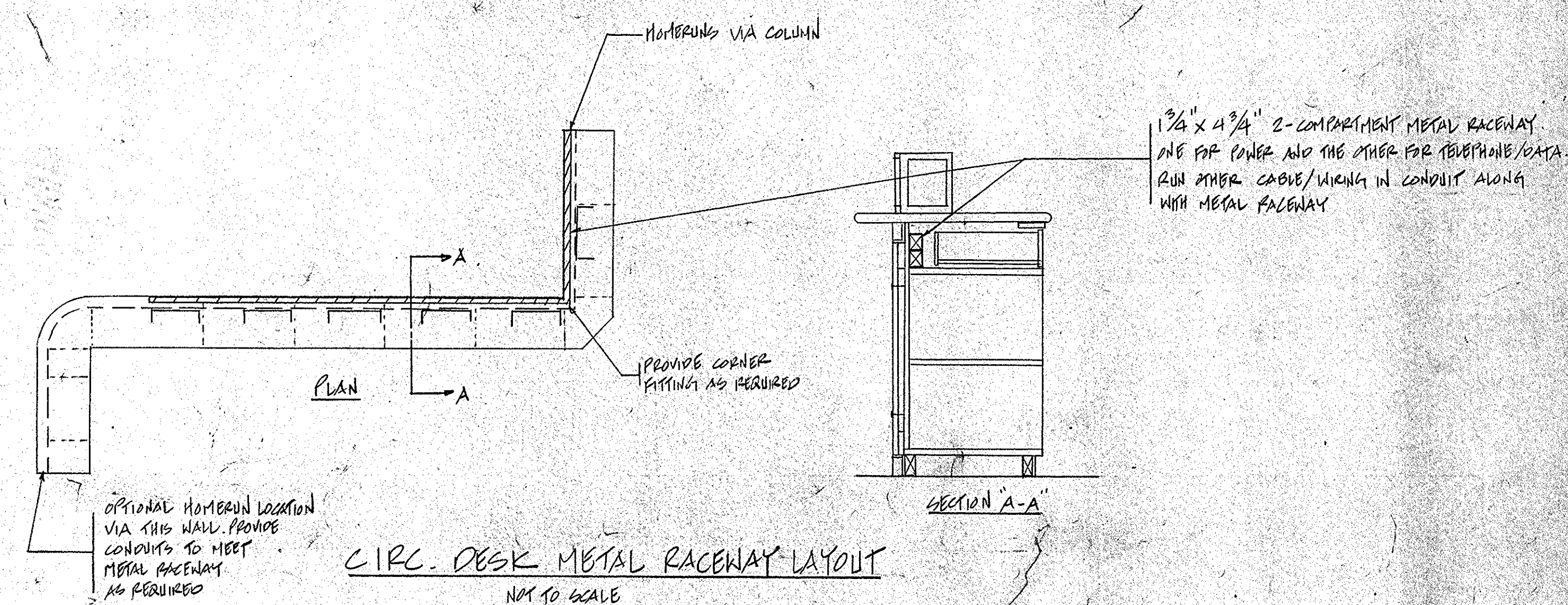
**MECHANICAL/ELECTRICAL RM. LAYOUT**

SCALE: 1/4" = 1'-0"  
 NOTE: SPARE FUSES CABINET SHALL BE 24"(L) X 30"(H) X 8"(D). PROVIDE ONE SET OF SPARE FUSES (CONTAINS AS NEEDED FOR THIS PROJECT) IN ORIGINAL BOXES IN CABINET.



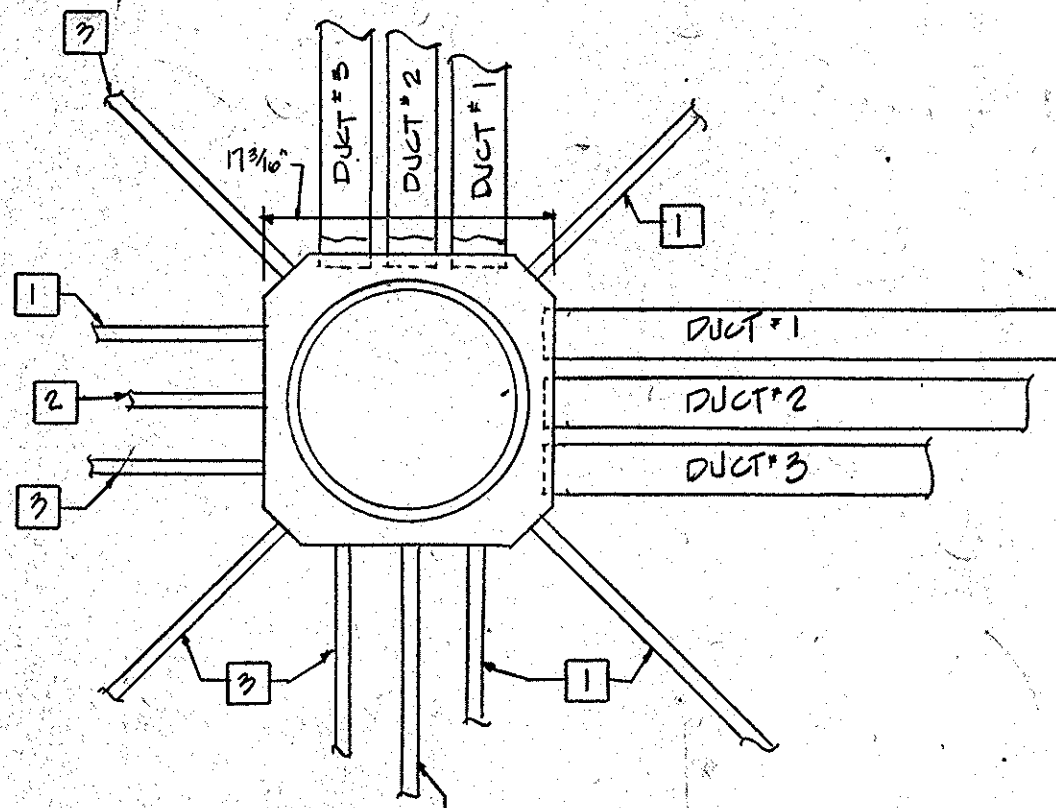
**MEZZANINE MECH. RM. LAYOUT**

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



**CIRC. DESK METAL RACEWAY LAYOUT**

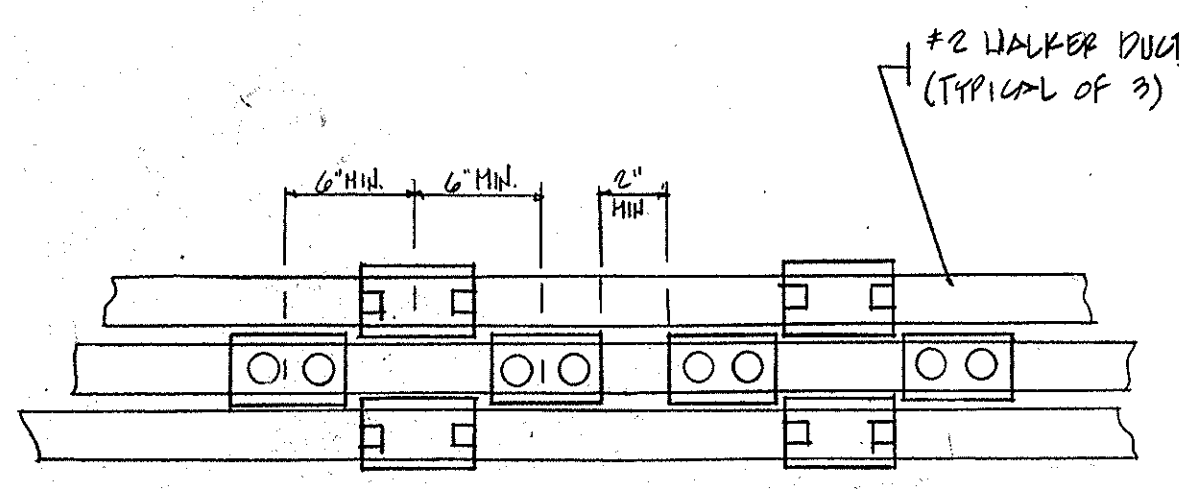
NOT TO SCALE



- 1 POSSIBLE LOCATION FOR DUCT #1 OPENING TO 1'-2" CONDUIT
- 2 POSSIBLE LOCATION FOR DUCT #2 OPENING TO 1'-2" CONDUIT
- 3 POSSIBLE LOCATION FOR DUCT #3 OPENING TO 1'-2" CONDUIT

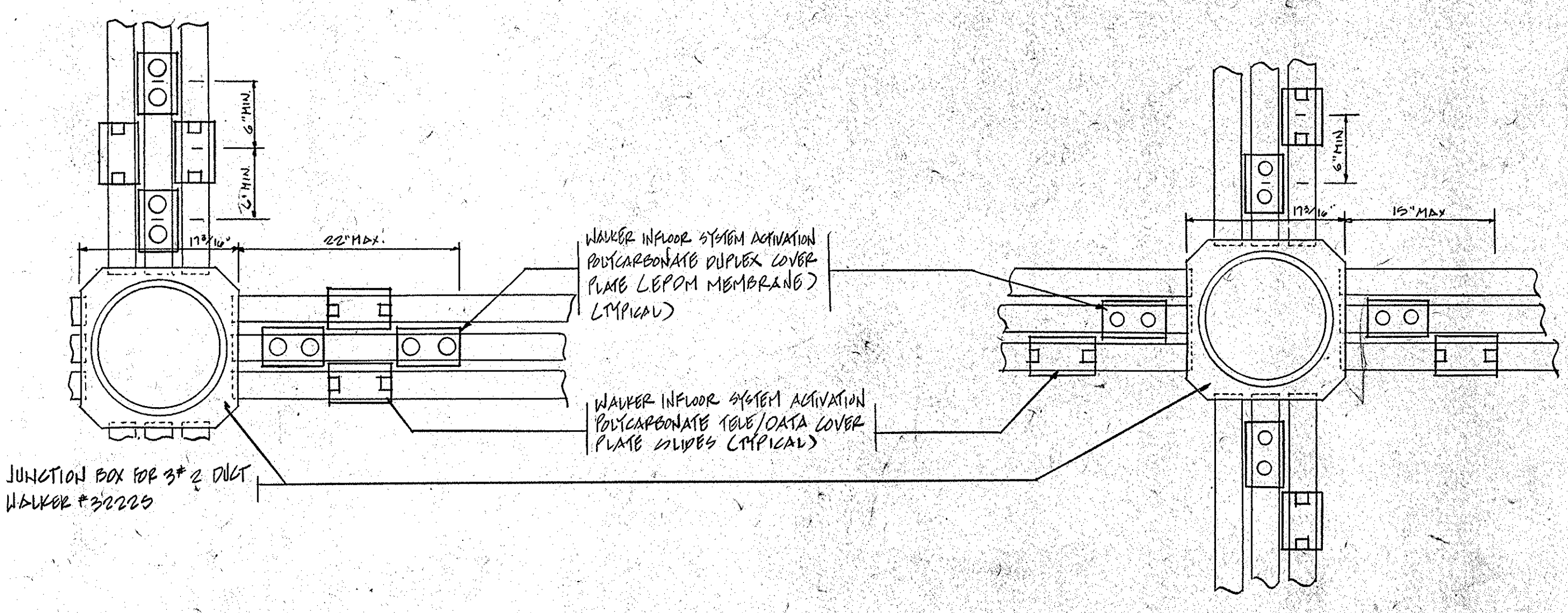
**TYPICAL UNDERFLOOR CONDUIT HOMERUN ARRANGEMENT AT JUNCTION BOX**

NOT TO SCALE



**UNDERFLOOR DUCT ACTIVATION TYPE 'A'**

NOT TO SCALE



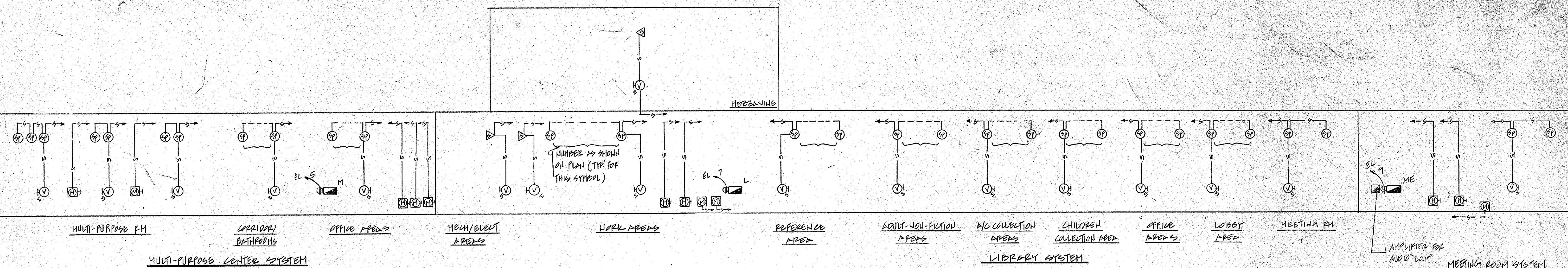
**UNDERFLOOR DUCT ACTIVATION TYPE 'B'**

NOT TO SCALE

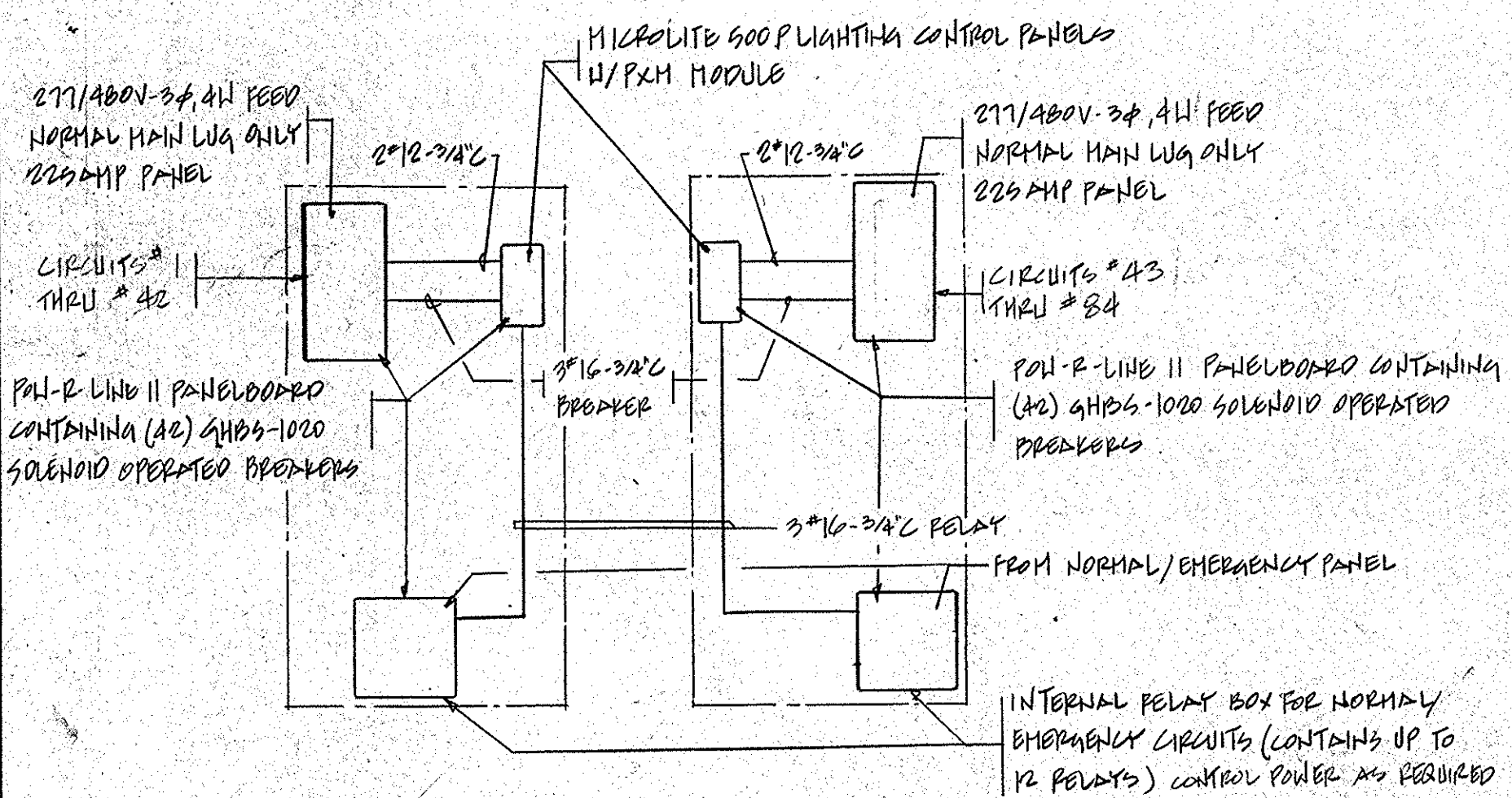
**UNDERFLOOR DUCT ACTIVATION TYPE 'C'**

NOT TO SCALE

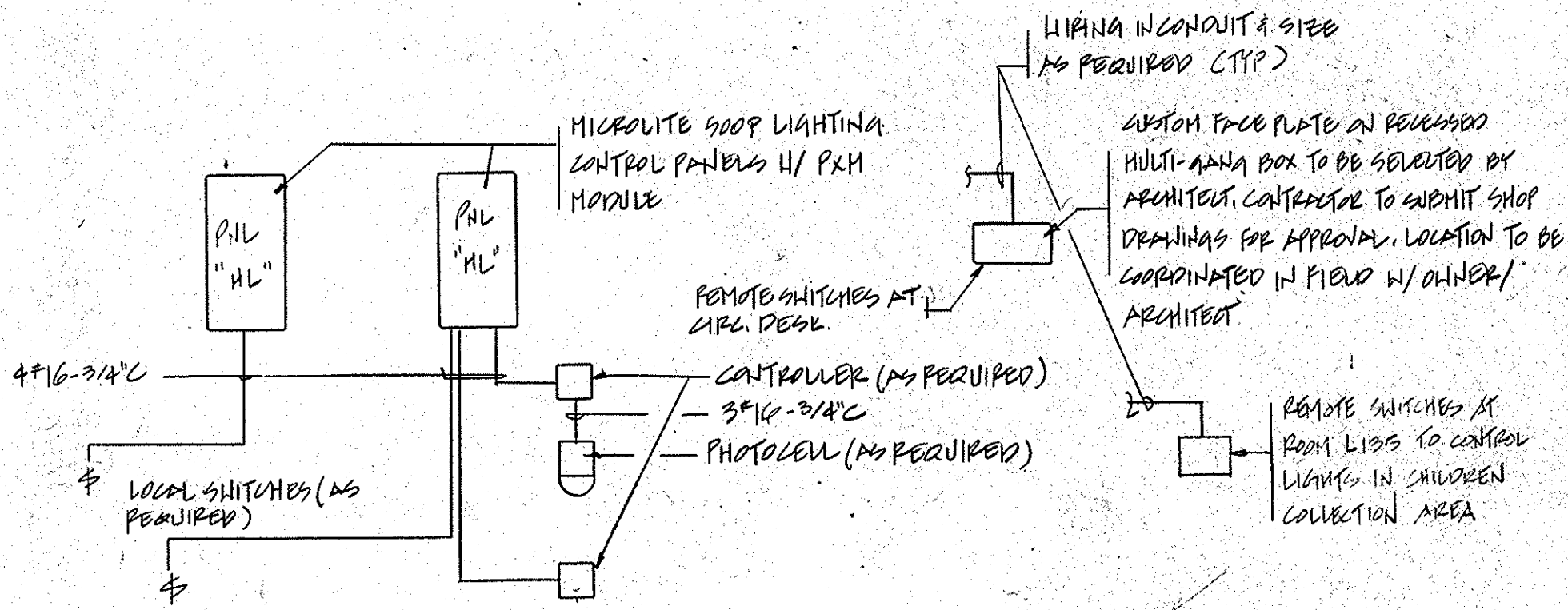
- WALKER DUCT NOTES**
- PROVIDE POLYCARBONATE COVER PLATE FOR ACTIVATIONS.
  - CONTRACTOR TO SUBMIT COMPLETE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONCRETE POURING. SHOP DRAWINGS SHALL SHOW FLOOR DUCTS AND OTHER DIMENSIONS (VERTICAL AND HORIZONTAL) IN REFERENCE TO WALL AND/OR COLUMNS. IN ADDITION, SHOP DRAWINGS SHALL SHOW ALL ACTIVATIONS WITH DIMENSIONS, MOUNTING, CONNECTIONS, MOUNTING LOCATIONS, JUNCTION BOXES, CONNECTORS, ADAPTERS, TRANSITIONS, ACCESSORIES, ETC.



P.A. SYSTEMS RISER DIAGRAM  
NOT TO SCALE



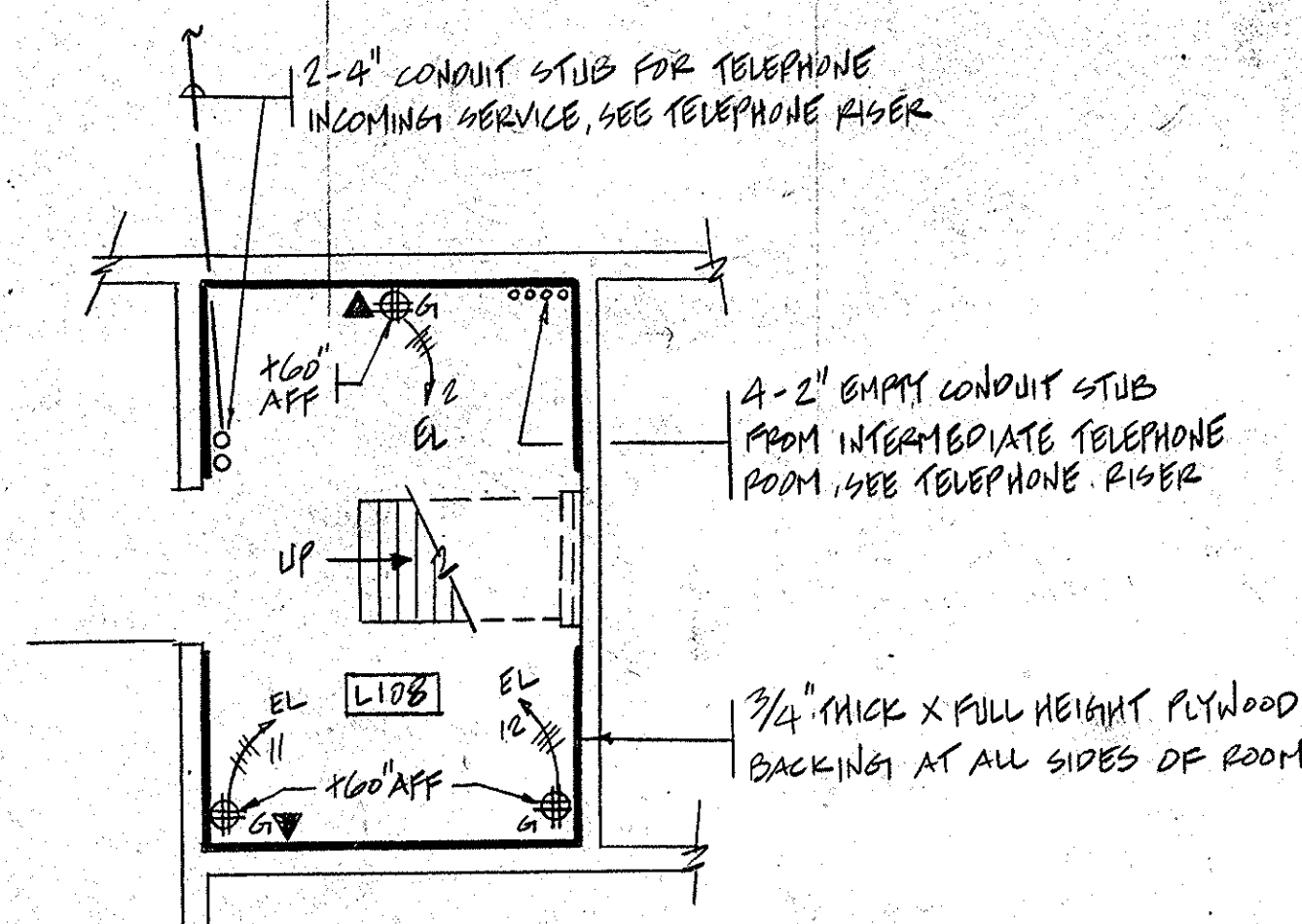
LIGHTING CONTROL-POWER DIAGRAM  
NOT TO SCALE



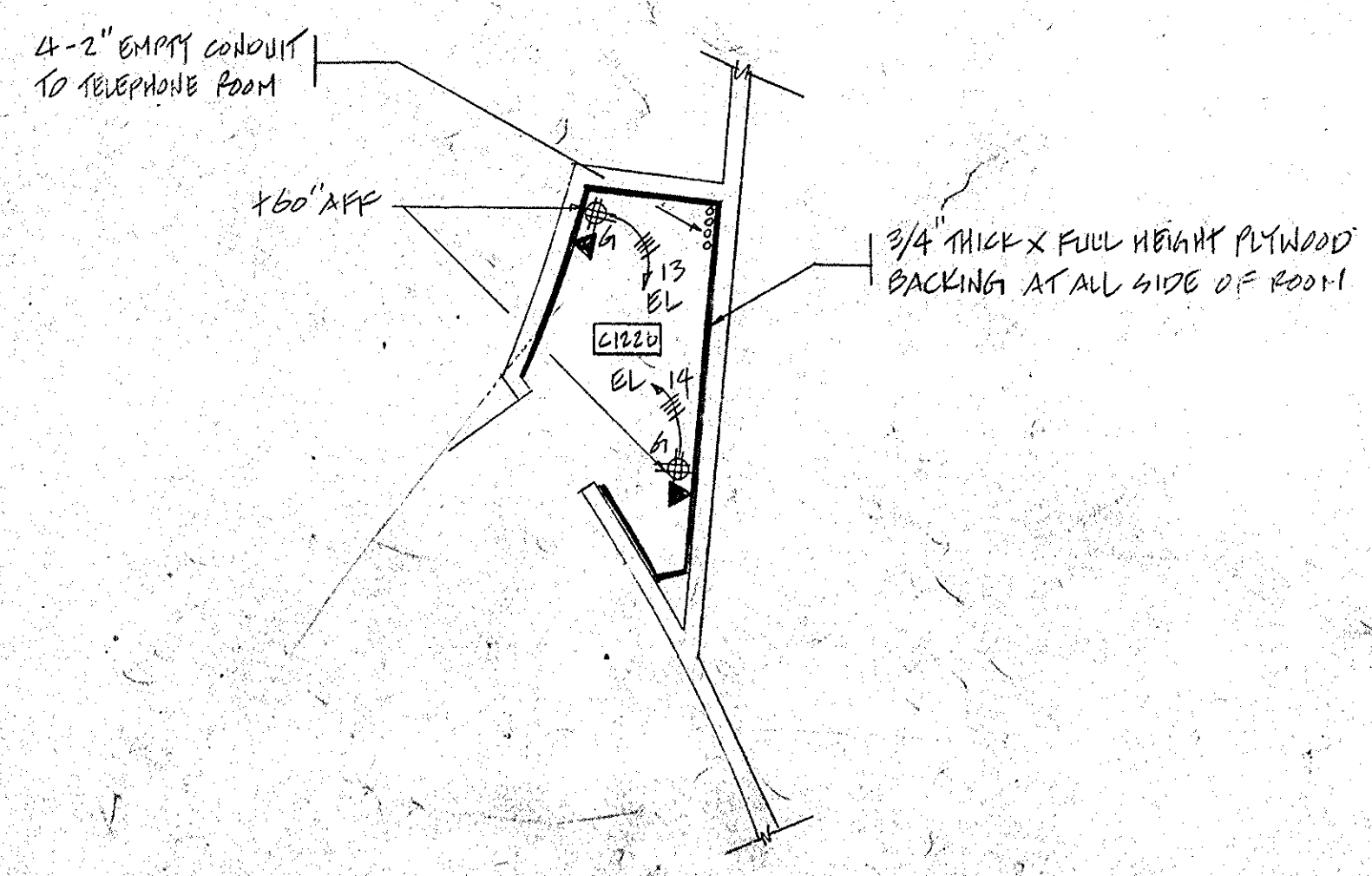
LIGHTING CONTROL-CONTROL DIAGRAM  
NOT TO SCALE

CIR. NO. & PANEL NO.	SEVING	TO BE TIED TO ON 154	TO BE TIED TO OFF 154	REMARKS
1-3, 6, 8	PARKING LIGHTS	PHOTO CELL #1	TIME CLOCK #1	PHOTOCELL SHALL FACE NORTH
7, 9, 10	IN-GROUND LIGHTS	PHOTO CELL #2	TIME CLOCK #2	OTTO
11	GLASS LIGHTS	PHOTO CELL #3	PHOTO CELL #3	OTTO
14, 19	EXTERIOR WALKWAY LIGHTS	PHOTO CELL #4	TIME CLOCK #3	OTTO
14-26, 38	INTERIOR LIGHTS	LOCAL SWITCHES	LOCAL SWITCHES	ROOMS L1A & L1A4 SHALL HAVE 6 SWITCHES PER CIRCUIT TO CONTROL AREA
27-32	PARKING AREAS DOWN LIGHTS	REMOTE SWITCHES AT CIRC. DESK AREA	REMOTE SWITCHES AT CIRC. DESK AREA	ONE SWITCH PER CIRCUIT
33, 37, 39	STACK AREAS LIGHTS	REMOTE SWITCHES AT CIRC. DESK AREA	REMOTE SWITCHES AT CIRC. DESK AREA	ONE SWITCH PER CIRCUIT
38, 40, 41, 42, 43, 46	COMPUTER AREAS	REMOTE SWITCHES AT CIRC. DESK AREA	REMOTE SWITCHES AT CIRC. DESK AREA	ONE SWITCH PER CIRCUIT
41, 44, 51	PARKING AREAS UP LIGHTS	REMOTE SWITCHES AT CIRC. DESK AREA	REMOTE SWITCHES AT CIRC. DESK AREA	ONE SWITCH PER CIRCUIT
50, 52	CHILDREN COLLECTION AREAS	REMOTE SWITCHES AT WORK AREA 135	REMOTE SWITCHES AT WORK AREA 135	ONE SWITCH PER CIRCUIT
44, 46	LOVE UP LIGHTS	PHOTO CELL #5	TIME CLOCK #4	PHOTOCELL SHALL BE MOUNTED IN READING AREA. VERIFY EXACT LOCATION IN FIELD
53, 54	INFORMATION DESK AREA	REMOTE SWITCHES AT CIRC. DESK AREA	REMOTE SWITCHES AT CIRC. DESK AREA	ONE SWITCH PER CIRCUIT
55-59	STAIRS			

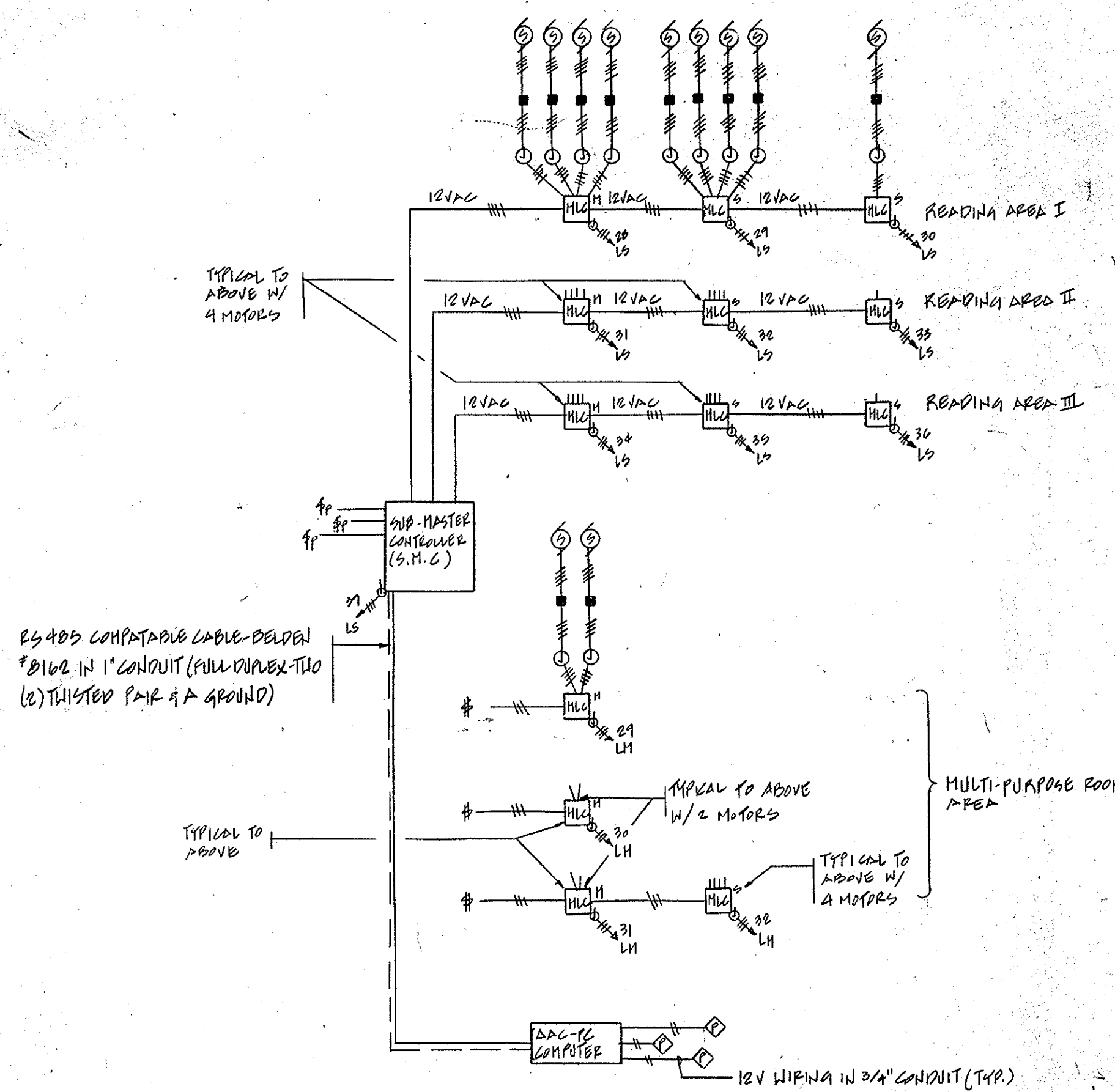
NOTE: ALL FINAL LOCATIONS OF SWITCHES (REMOTE AND LOCAL) SHALL BE VERIFIED WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. ALL TIME CLOCKS TO BE PART OF THE CONTROL PANEL (MOUNT IN FIELD)



TELEPHONE ROOM LAYOUT  
SCALE: 1/4" = 1'-0"

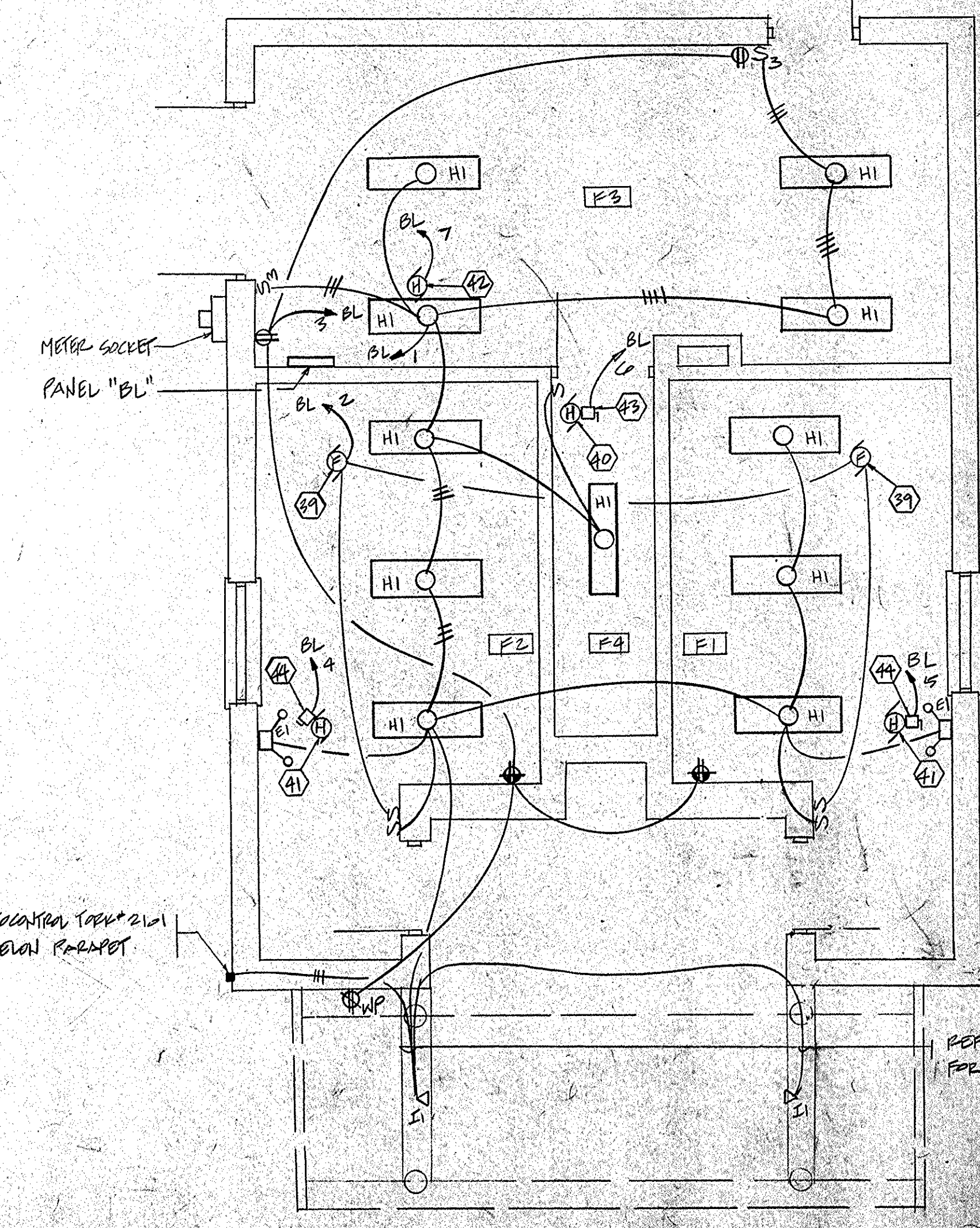


INTERMEDIATE TELEPHONE ROOM LAYOUT  
SCALE: 1/4" = 1'-0"



AUTOMATED SHADING SYSTEM DIAGRAM  
NOT TO SCALE

- Notes:
- EXACT LOCATION AND MOUNTING OF PHOTOCELL TO BE DETERMINED IN FIELD.
  - CONTRACTOR TO COORDINATE LOCATION OF CONNECTIONS WITH SUPPLIER AND INSTALLER IN FIELD. CONTRACTOR TO MAKE ALL FINAL CONNECTIONS.
  - ALL CONTROL WIRING SHALL BE IN MIN. 3/4" CONDUIT. 12 VAC WIRING SHALL NOT BE IN SAME CONDUIT WITH 120VAC WIRING.



SITE FACILITIES BLDG - ELECTRICAL (ADD ALTERNATE #1)  
SCALE: 1/4" = 1'-0"