

FIRE STATION NO. 4

CITY OF MADISON FIRE DEPARTMENT

MADISON WISCONSIN

MARTINSONS / ZECK / MEYER

ARCHITECTS

ARNOLD & O'SHERIDAN

CONSULTING ENGINEERS

MULTIPLE CONTRACT

	NUMBER
GENERAL	644
PLUMBING	645
HVAC	646
ELECTRICAL	647

SHEET INDEX

TITLE SHEET

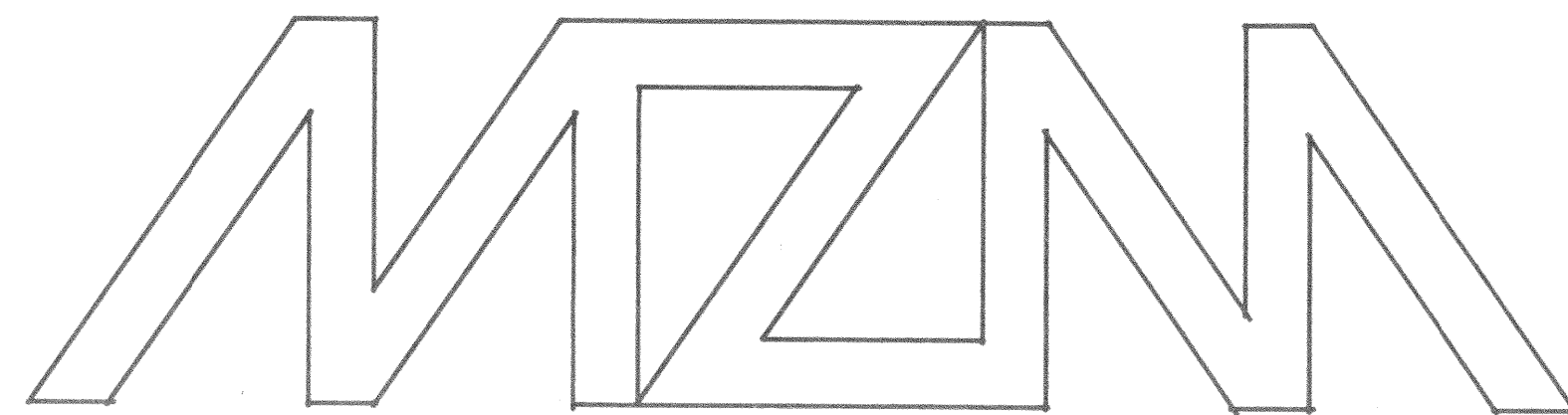
- 1 SITE PLAN
- 2 LANDSCAPING PLAN
- 3 FIRST FLOOR PLAN
- 4 SECOND FLOOR PLAN
- 5 ROOF PLAN
- 6 BUILDING SECTIONS
- 7 BUILDING SECTIONS
- 8 BUILDING SECTIONS
- 9 ELEVATIONS
- 10 FIRST FLOOR REFLECTED CEILING
- 11 SECOND FLOOR REFLECTED CEILING
- S-1 FOUNDATION/FIRST FLOOR FRAMING
- S-2 ROOF FRAMING
- ME-1 MECHANICAL/ELECTRICAL SITE PLAN
- P-1 PLUMBING PLANS
- P-2 PLUMBING SCHEMATICS
- H-1 HVAC PLANS
- H-2 HVAC DETAIL
- E-1 FIRST FLOOR ELECTRICAL
- E-2 SECOND FLOOR ELECTRICAL
- E-3 SCHEDULES

APPROVED BY THE COMMON COUNCIL ON 6-15-82

MAYOR JOEL SKORNICKA _____

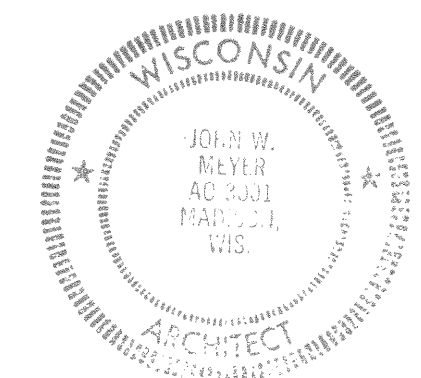
FIRE CHIEF EDWARD DURKIN _____

CITY CLERK ELDON HOEL _____



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE STATUTES OF THE STATE OF WISCONSIN.

John W. Meyer



- LEGEND**
- IRON STAKE FOUND
 - IRON STAKE PLACED
 - LIGHT POLE
 - POWER POLE
 - FENCE
 - WATER MAIN
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE UNDERGROUND
 - ELECTRIC OVERHEAD
 - HYDRANT
 - CONCRETE
 - BITUMINOUS PAVEMENT
 - TEE
 - MANHOLE
 - STORM INLET
 - RAILROAD TRACKS
 - PROPERTY LINE
 - TOP OF CURB
 - RECORDED DATA
 -

DESCRIPTION
 A parcel of land being part of Lot 3, Certified Survey Map Number 548. Recorded in Vol. 3, page 50, City of Madison, Dane County, Wisconsin, to-wit:

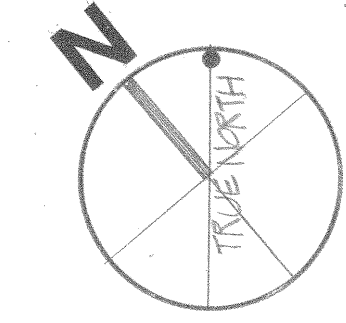
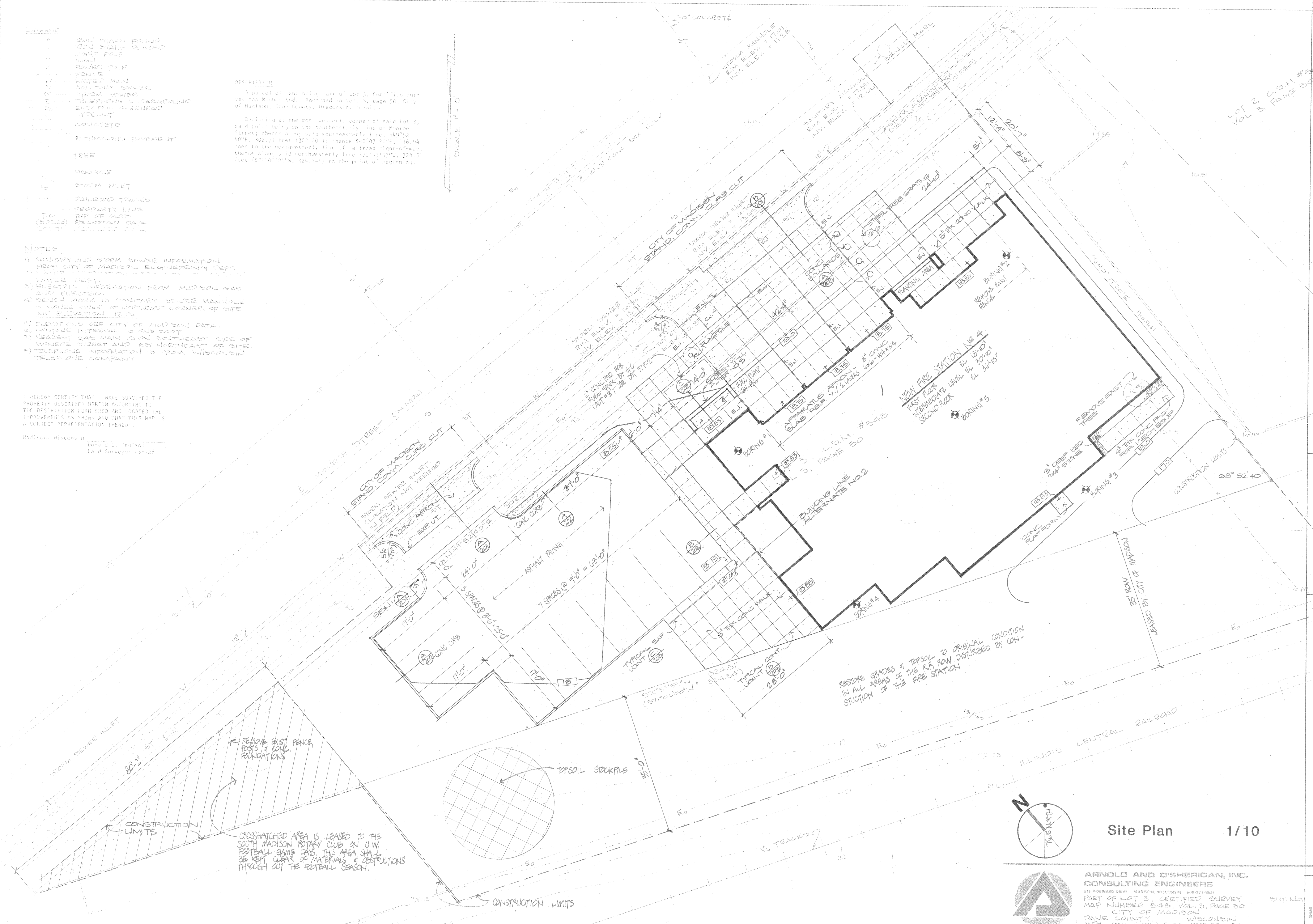
Beginning at the most westerly corner of said Lot 3, said point being on the southeasterly line of Monroe Street; thence along said southeasterly line, 349' 52" 40° E, 302.71 feet (302.20'); thence S40° 07' 20" E, 116.94 feet to the northwesterly line of railroad right-of-way; thence along said northwesterly line S70° 59' 53" W, 324.51 feet (S71° 00' 00" W, 324.34') to the point of beginning.

- NOTES**
- 1) SANITARY AND STORM SEWER INFORMATION FROM CITY OF MADISON ENGINEERING DEPT.
 - 2) WATER MAIN INFORMATION FROM CITY OF MADISON ENGINEERING DEPT.
 - 3) ELECTRIC INFORMATION FROM MADISON GAS AND ELECTRIC.
 - 4) BENCH MARK TO SANITARY SEWER MANHOLE IN MONROE STREET AT NORTHEAST CORNER OF SITE IN V. ELEVATION 12.02
 - 5) ELEVATIONS ARE CITY OF MADISON DATA.
 - 6) CENTER INTERVAL IS ONE FOOT.
 - 7) NEAREST GAS MAIN IS ON SOUTHEAST SIDE OF MONROE STREET AND 185' NORTHEAST OF SITE.
 - 8) TELEPHONE INFORMATION IS FROM WISCONSIN TELEPHONE COMPANY.

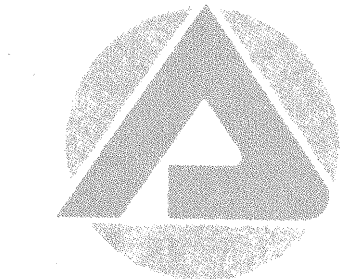
I HEREBY CERTIFY THAT I HAVE SURVEYED THE PROPERTY DESCRIBED HEREON ACCORDING TO THE DESCRIPTION FURNISHED AND LOCATED THE IMPROVEMENTS AS SHOWN AND THAT THIS MAP IS A CORRECT REPRESENTATION THEREOF.

Madison, Wisconsin
 Donald L. Paulson
 Land Surveyor #S-7728

SCALE 1"=10'



Site Plan 1/10

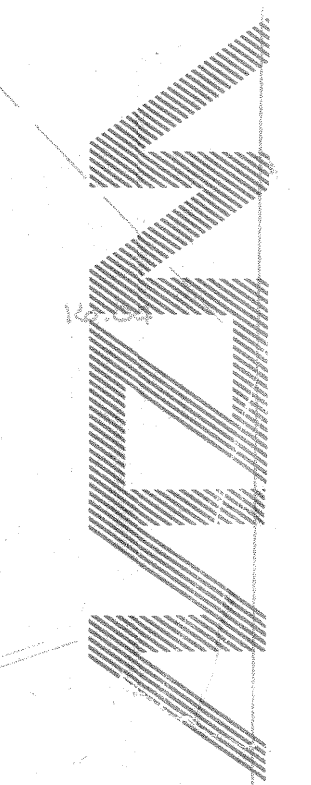


ARNOLD AND O'SHERIDAN, INC.
 CONSULTING ENGINEERS
 813 FORWARD DRIVE, MADISON, WISCONSIN 53703-9651
 PART OF LOT 3, CERTIFIED SURVEY MAP NUMBER 548, VOL. 3, PAGE 50, CITY OF MADISON, DANE COUNTY, WISCONSIN
 DEPT. CREDD. DATE 5-5-82 JOB NO. 82065C

SHT. NO. 1

FIRE STATION NO. 4
 MADISON WI
 1437 MONROE ST.
 CITY OF MADISON FIRE DEPARTMENT

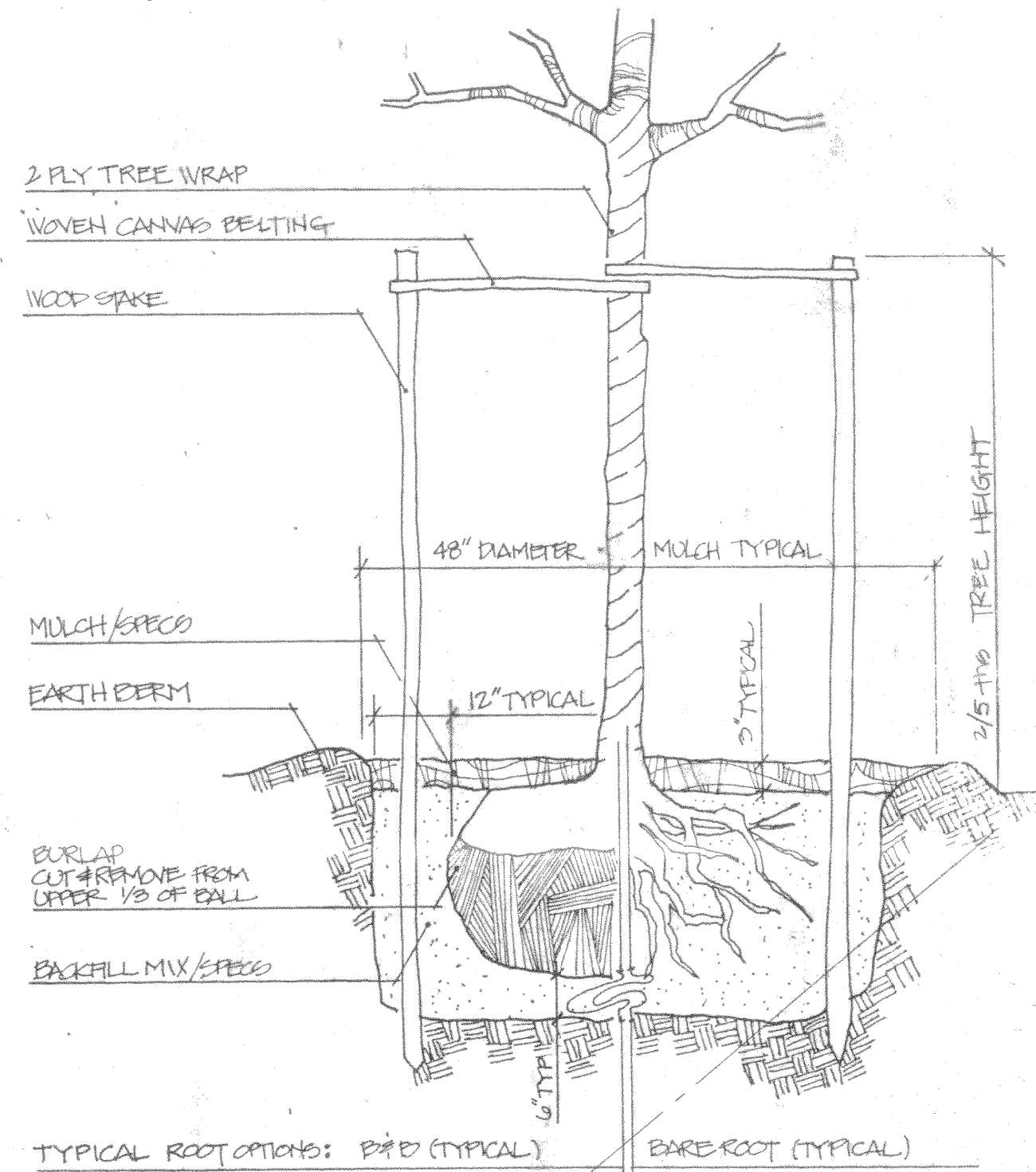
Project Number 8222
 Date 6/1/82
 Drawing Number
 Martinsons / Zeck / Meyer
 Planning Architecture Engineering
 625 West Washington Avenue
 Madison, Wisconsin 53703



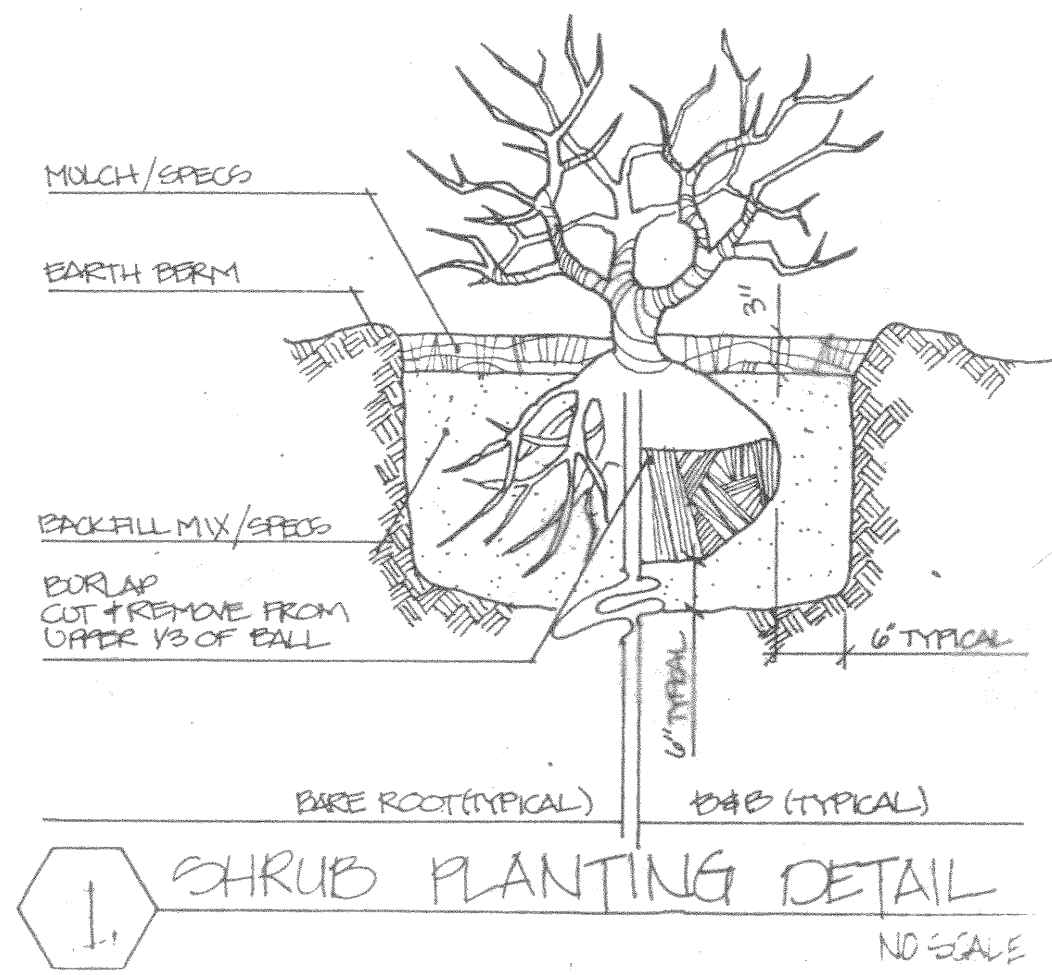
LOT 3, C.O.M. #242
 VOL. 3, PAGE 50

PLANT LIST

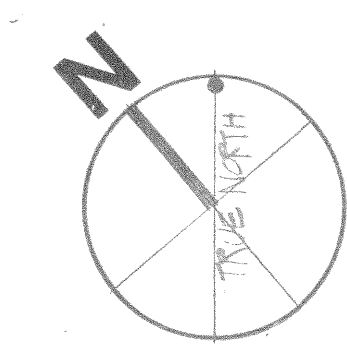
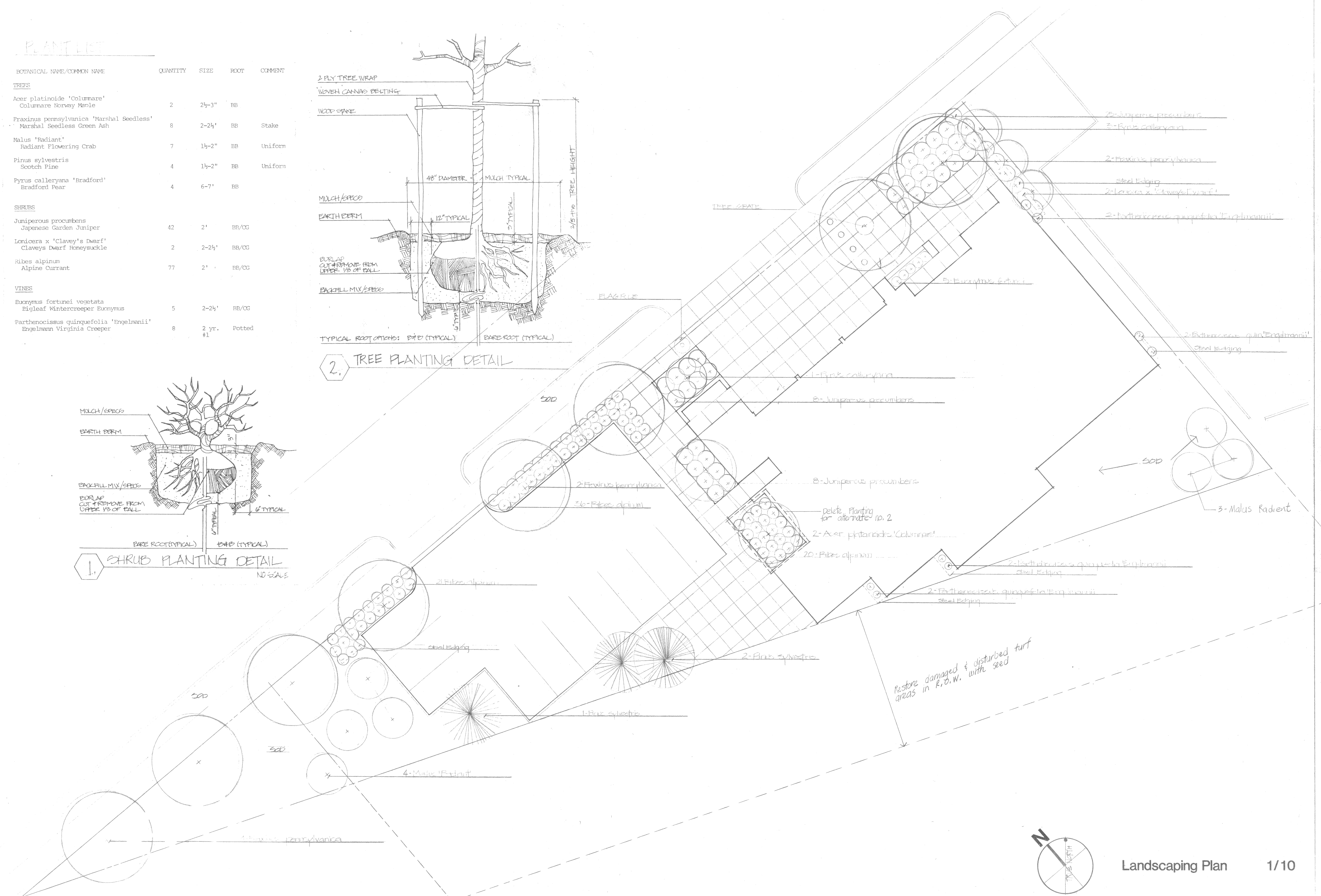
BOTANICAL NAME/COMMON NAME	QUANTITY	SIZE	ROOT	COMMENT
TREES				
Acer platanoides 'Columnare' Columnare Norway Maple	2	2 1/2-3"	BB	
Fraxinus pennsylvanica 'Marshal Seedless' Marshal Seedless Green Ash	8	2-2 1/2'	BB	Stake
Malus 'Radiant' Radiant Flowering Crab	7	1 1/2-2"	BB	Uniform
Pinus sylvestris Scotch Pine	4	1 1/2-2"	BB	Uniform
Pyrus calleryana 'Bradford' Bradford Pear	4	6-7'	BB	
SHRUBS				
Juniperus procumbens Japanese Garden Juniper	42	2'	BB/CG	
Lonicera x 'Clavey's Dwarf' Clavey's Dwarf Honeysuckle	2	2-2 1/2'	BB/CG	
Ribes alpinum Alpine Currant	77	2'	BB/CG	
VINES				
Euonymus fortunei vegetata Bigleaf Wintercreeper Euonymus	5	2-2 1/2'	BB/CG	
Parthenocissus quinquefolia 'Engelmannii' Engelmann Virginia Creeper	8	2 yr. #1	Potted	



2. TREE PLANTING DETAIL



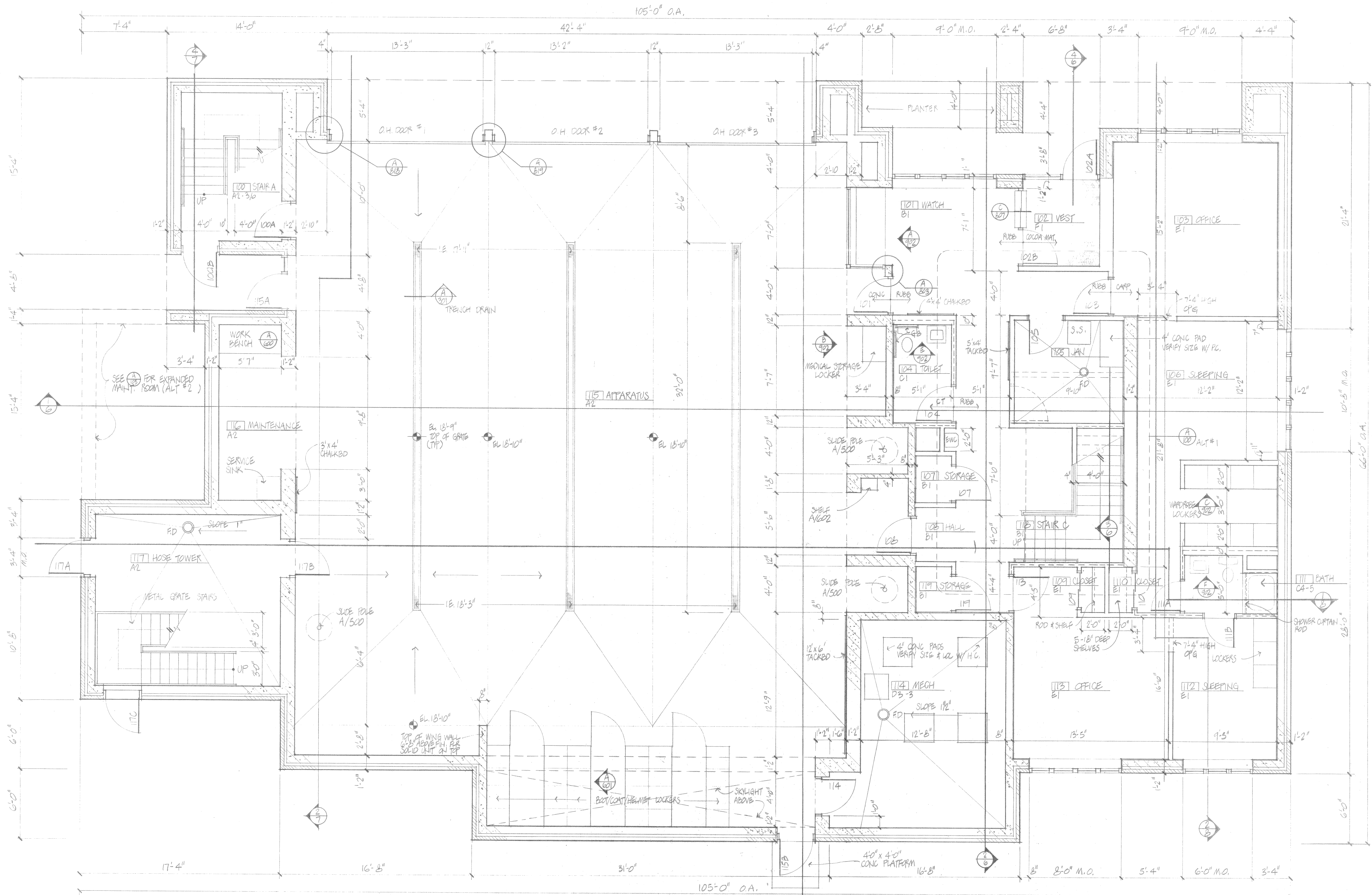
1. SHRUB PLANTING DETAIL
NO SCALE



FIRE STATION NO. 4
 1437 MONROE ST.
 CITY OF MADISON FIRE DEPARTMENT
 MADISON WI

MZM
 Martinsons / Zeck / Meyer
 Planning / Architecture Engineering
 625 West Washington Avenue
 Madison Wisconsin 53703
 608 251 7507/251 0600

Project Number
 Date
 Drawing Number



ROOM FINISH SCHEDULE

FLOOR/BASE	WALLS
CODE	DESCRIPTION
A	1 PAINTED GYP BD
B	2 PAINTED CONC BLK
C	3 UNPAINTED CONC BLK
D	4 PAINTED WATER RESISTANT GYP BD
E	5 UNPAINTED CONC
F	
G	

WALL SYMBOL KEY

	CONCRETE BLOCK (CMU) SEE PLAN FOR THICKNESS		CONCRETE BLOCK W/ ADHESIVE APPLIED GYP BD
	CONCRETE BLOCK & FACE BRICK W/ INSUL CAVITY		5/8" MET STUDS @ 16" W/ 5/8" GYP BD
	CONCRETE		MET STUD, MET LATH, CEMENT PLASTER & CERAMIC TILE
			5/8" MET STUDS @ 16" W/ 5/8" GYP BD BOTH SIDES EXTENDED TO UNDERSIDE OF STRUCT DECK

NOTES

- DIMENSIONS OF MASONRY WALLS ARE TO NOMINAL MASONRY DIMENSIONS
- DIMENSIONS OF METAL STUD PARTITIONS ARE TO FINISHED FACE OF GYP BD
- PROVIDE 2 HR FIRE RATED WALLS AROUND THIS ROOM
- NOT USED
- CERAMIC TILE SET ON MET LATH & CEMENT PLASTER @ SHOWERS

DETAIL REFERENCE SYSTEM

- NUMBER IN UPPER HALF DENOTES DETAIL ON LARGE DRAWING SHEETS
- NUMBER IN LOWER HALF REFERS TO LARGE SHEET NO. WHERE DETAIL OCCURS
- LETTER IN UPPER HALF DENOTES DETAIL IN DETAIL MANUAL
- 3 DIGIT NUMBER IN LOWER HALF REFERS TO DETAIL MANUAL PAGE NUMBER

1st Floor Plan

1/4

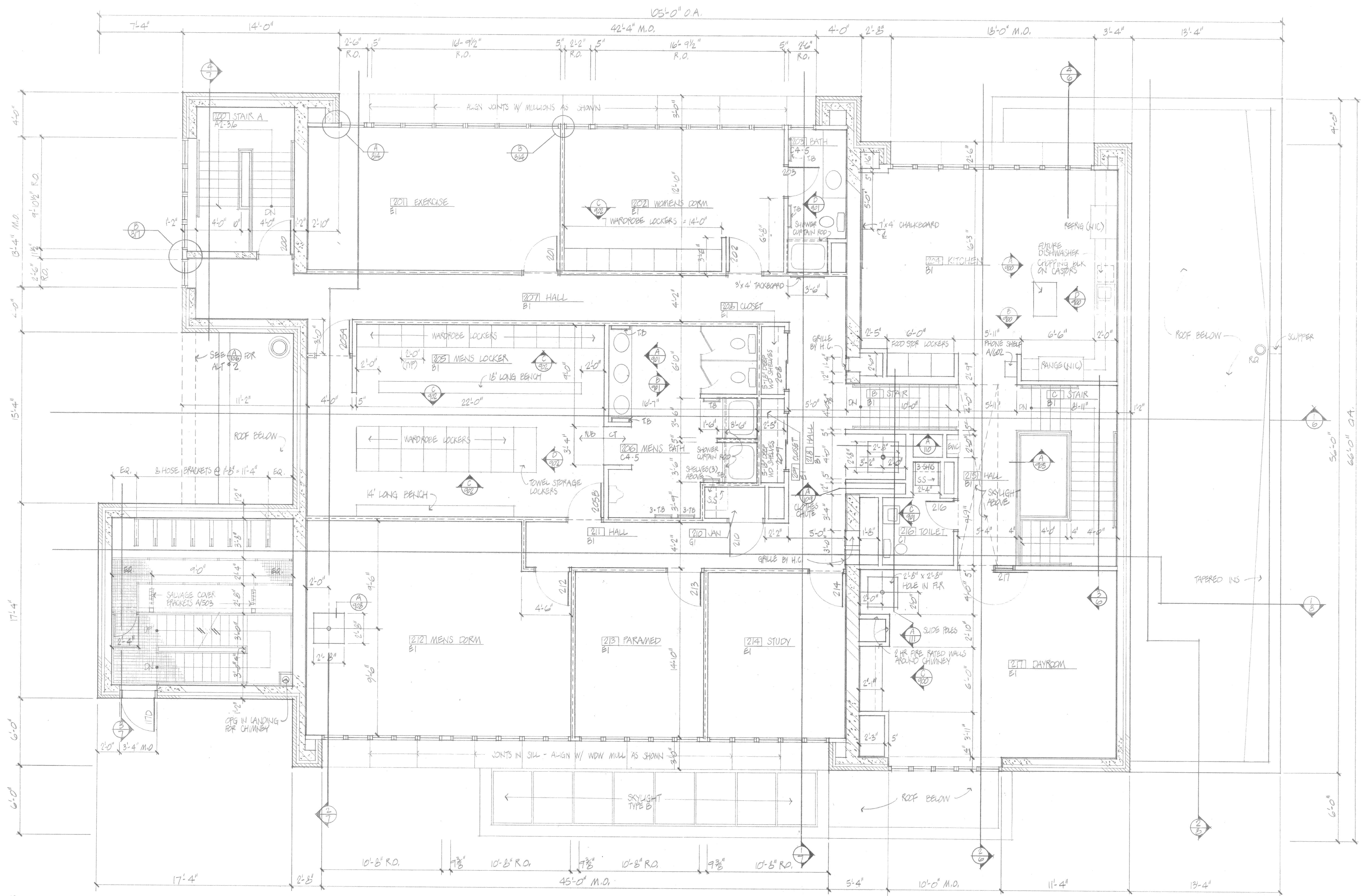
FIRE STATION NO. 4
MADISON WI
CITY OF MADISON FIRE DEPARTMENT

3

Project Number
Date
Drawing Number

Martinsons / Zeck / Meyer
Planning / Architecture Engineering
625 West Washington Avenue
Madison Wisconsin 53703





ROOM FINISH SCHEDULE

FLOOR/BASE CODE	DESCRIPTION	WALLS CODE	DESCRIPTION
A	COLORLED NON-SHIP SURFACE/NONE	1	PAINTED GYP BD
B	RUBBER/RUBBER	2	PAINTED CONC BLK
C	CERAMIC TILE/CERAMIC TILE	3	UNPAINTED CONC BLK
D	CONCRETE/NONE	4	PAINTED WATER RESISTANT GYP BD
E	CARPET/RUBBER		
F	COCCA MAT/RUBBER		
G	CONCRETE/RUBBER		

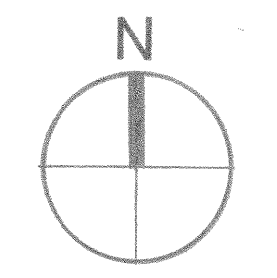
WALL SYMBOL KEY

[Symbol]	CONCRETE BLOCK (CMU) SEE PLAN FOR THICKNESS	[Symbol]	CONCRETE BLOCK W/ ADHESIVE APPLIED GYP BD
[Symbol]	CONCRETE BLOCK & FACE BRICK W/ INSUL CAVITY	[Symbol]	3/8" MET STUD @ 16" W/ 5/8" GYP BD
[Symbol]	CONCRETE	[Symbol]	METAL STD. METAL LATH, CEMENT PLAST & CERAMIC TILE
		[Symbol]	3/8" MET STUDS @ 16" W/ 5/8" GYP BD BOTH SIDES EXTENDED TO UNDER SIDE OF STRUCT DECK

- NOTES**
- DIMENSIONS OF MASONRY WALLS ARE TO NOMINAL MASONRY DIMENSIONS
 - DIMENSIONS OF METAL STUD PARTITIONS ARE TO FINISHED FACE OF GYP BD
 - PROVIDE 2 HR FIRE RATED WALLS AROUND THIS ROOM
 - NOT USED
 - CERAMIC TILE SET ON MET LATH & CEMENT PLAST @ SHOWERS
 - RUBBER TREADS & RISERS ON STAIRS & LANDINGS
 - SEE REFLECTED CLG PLANS CLG FINISH & HEIGHT
 - REFER TO STRUCTURAL DRAWINGS FOR MASONRY LINTELS

- DETAIL REFERENCE SYSTEM**
- NUMBER IN UPPER HALF DENOTES DETAIL ON LARGE DRAWING SHEETS
 - NUMBER IN LOWER HALF REFERS TO LARGE SHEET NO WHERE DETAIL OCCURS
 - LETTER IN UPPER HALF DENOTES DETAIL IN DETAIL MANUAL
 - 3 DIGIT NUMBER IN LOWER HALF REFERS TO DETAIL MANUAL PAGE NUMBER

FLOOR/BASE CODE
WALLS CODE
ROOM NUMBER
ROOM NAME
NOTES

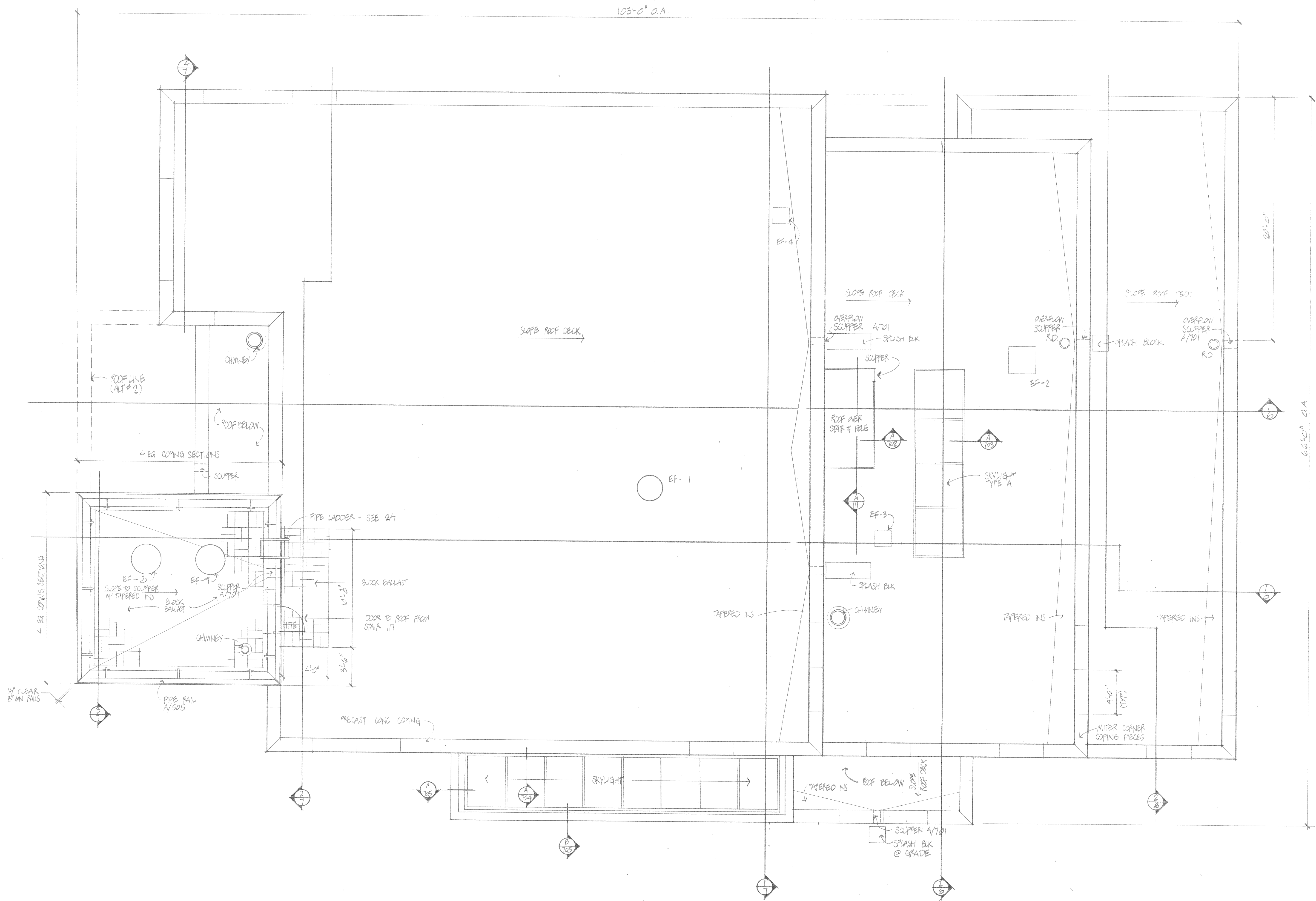


2nd Floor Plan 1/4

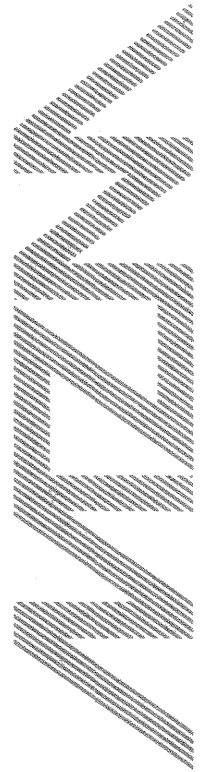
FIRE STATION NO. 4
MADISON WI
CITY OF MADISON FIRE DEPARTMENT

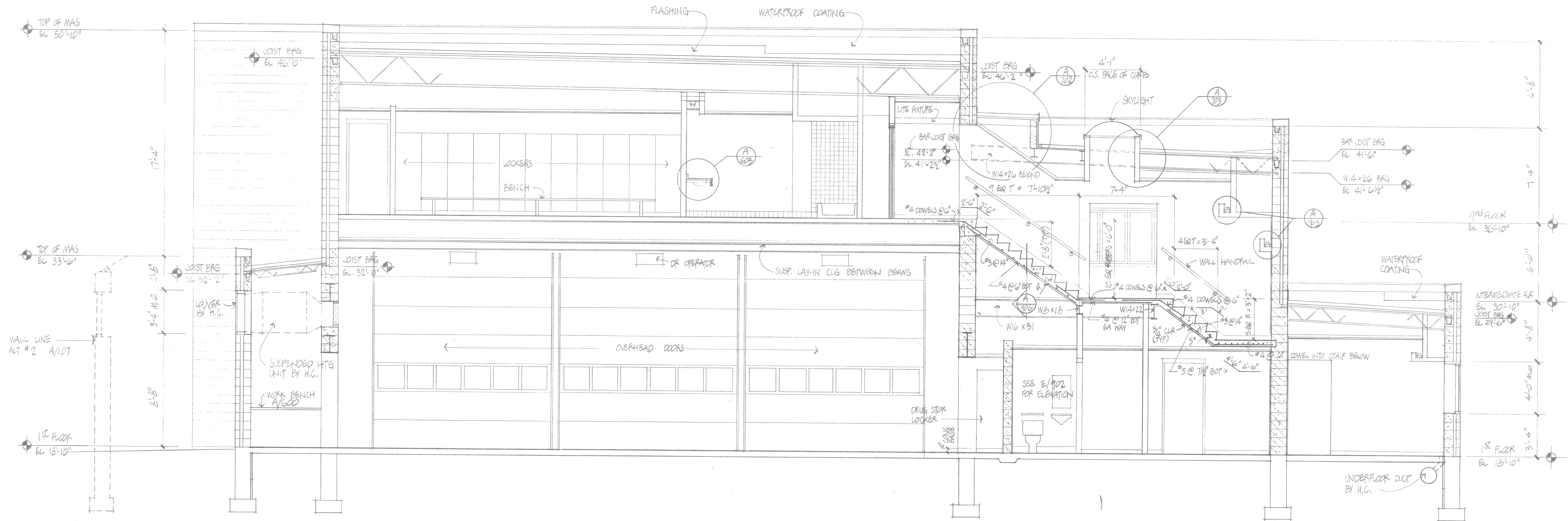
Project Number
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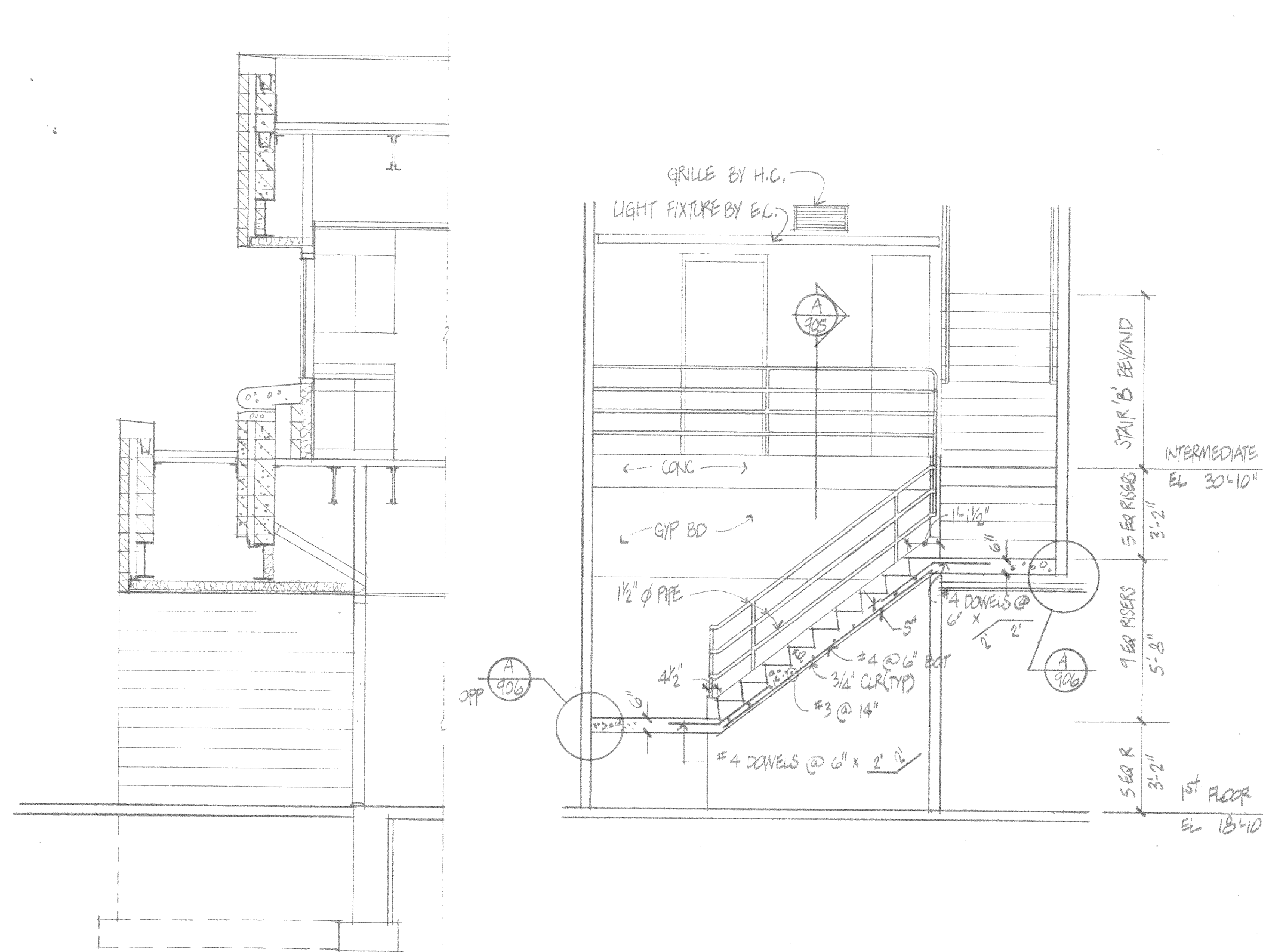
Roof Plan





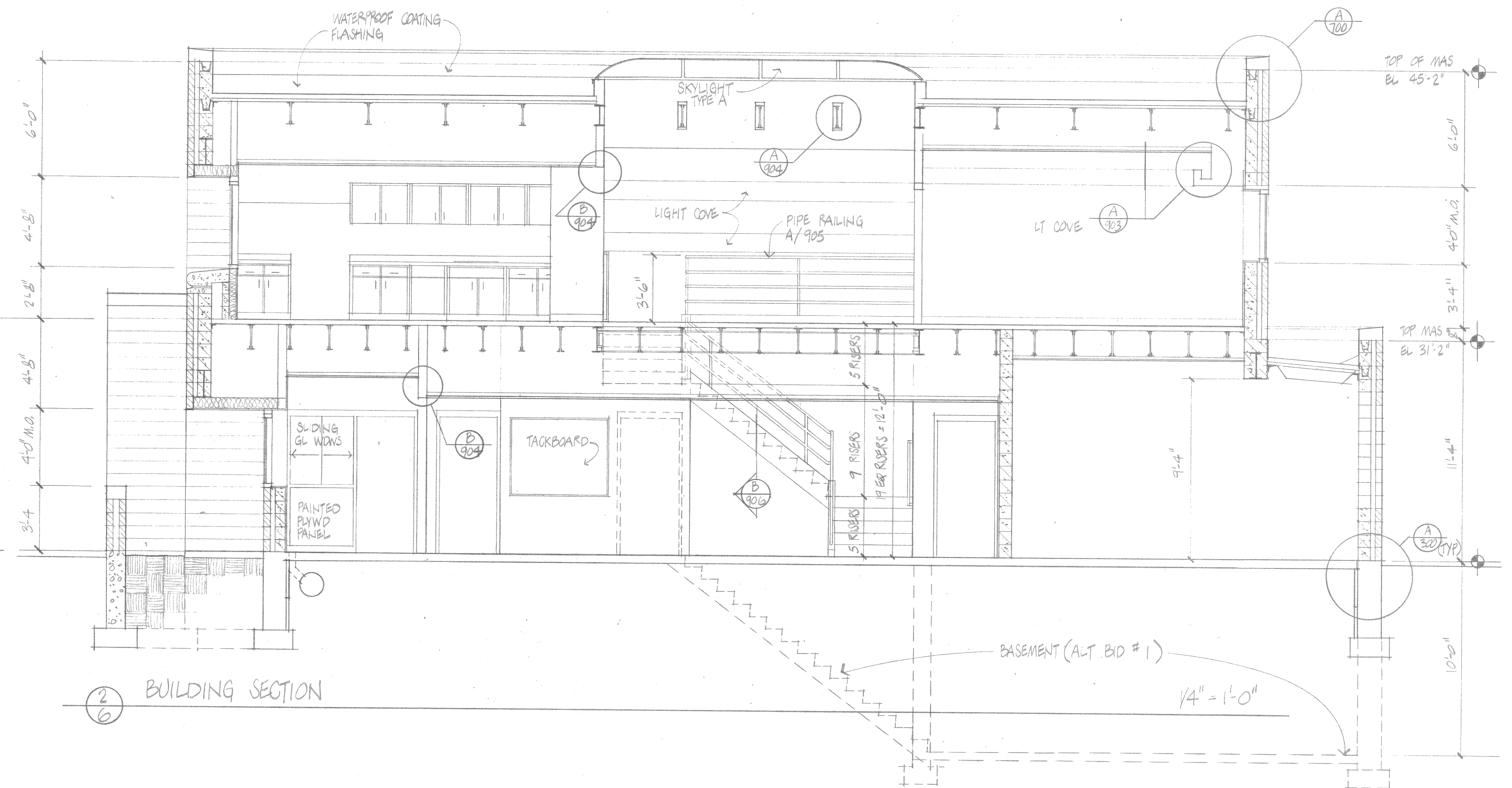
① BUILDING SECTION

1/4" = 1'-0"



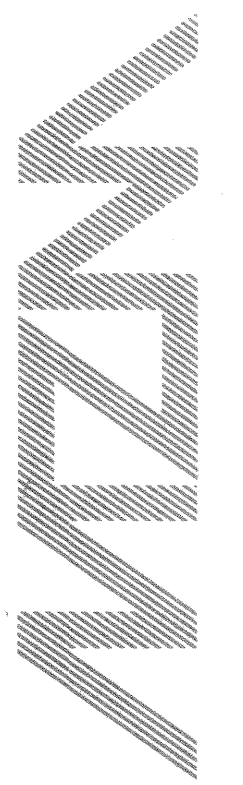
④ PARTIAL BLDG SECTION
1/4" = 1'-0"

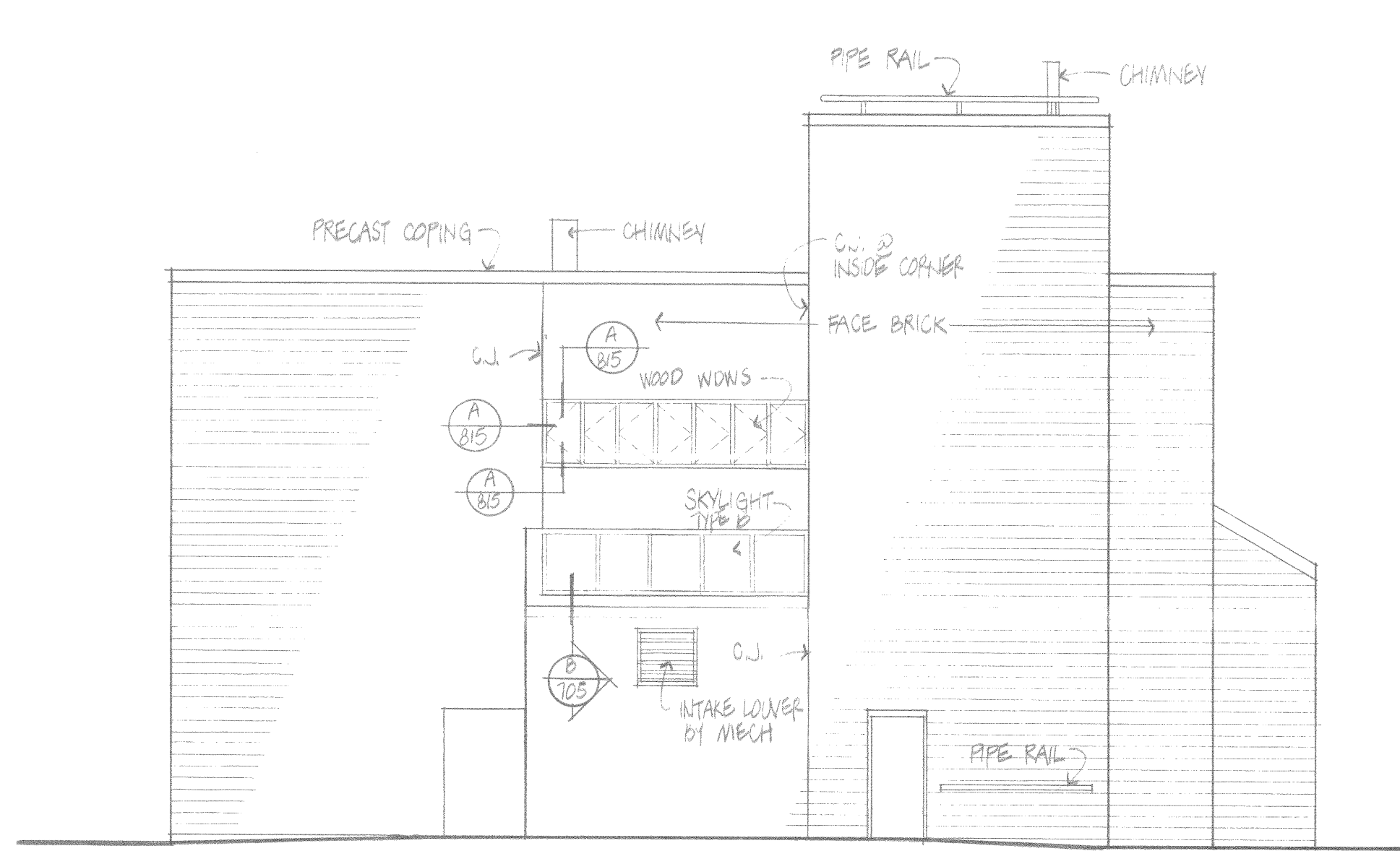
③ SECTION THRU STAIR 'C'
1/4" = 1'-0"



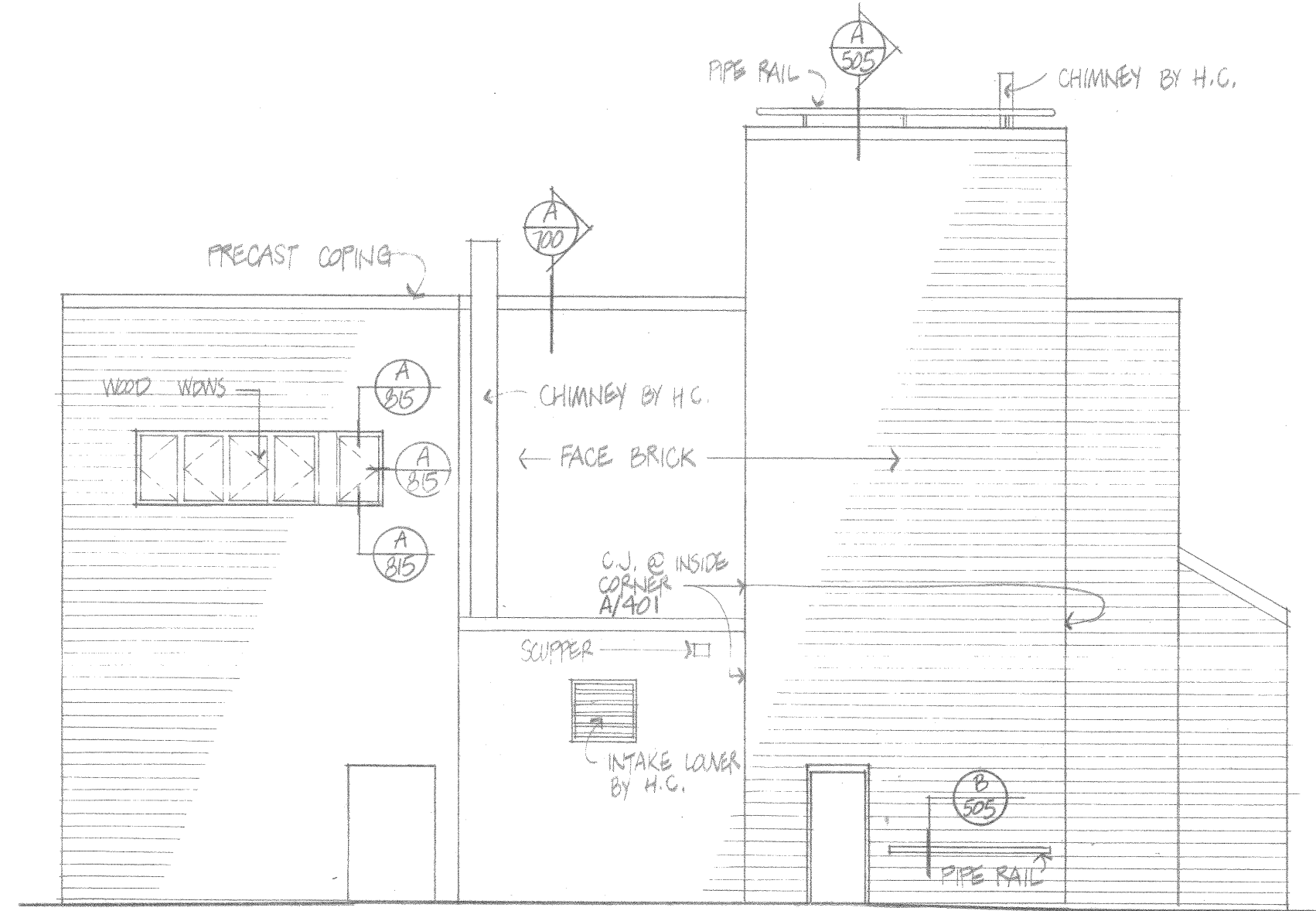
② BUILDING SECTION

1/4" = 1'-0"

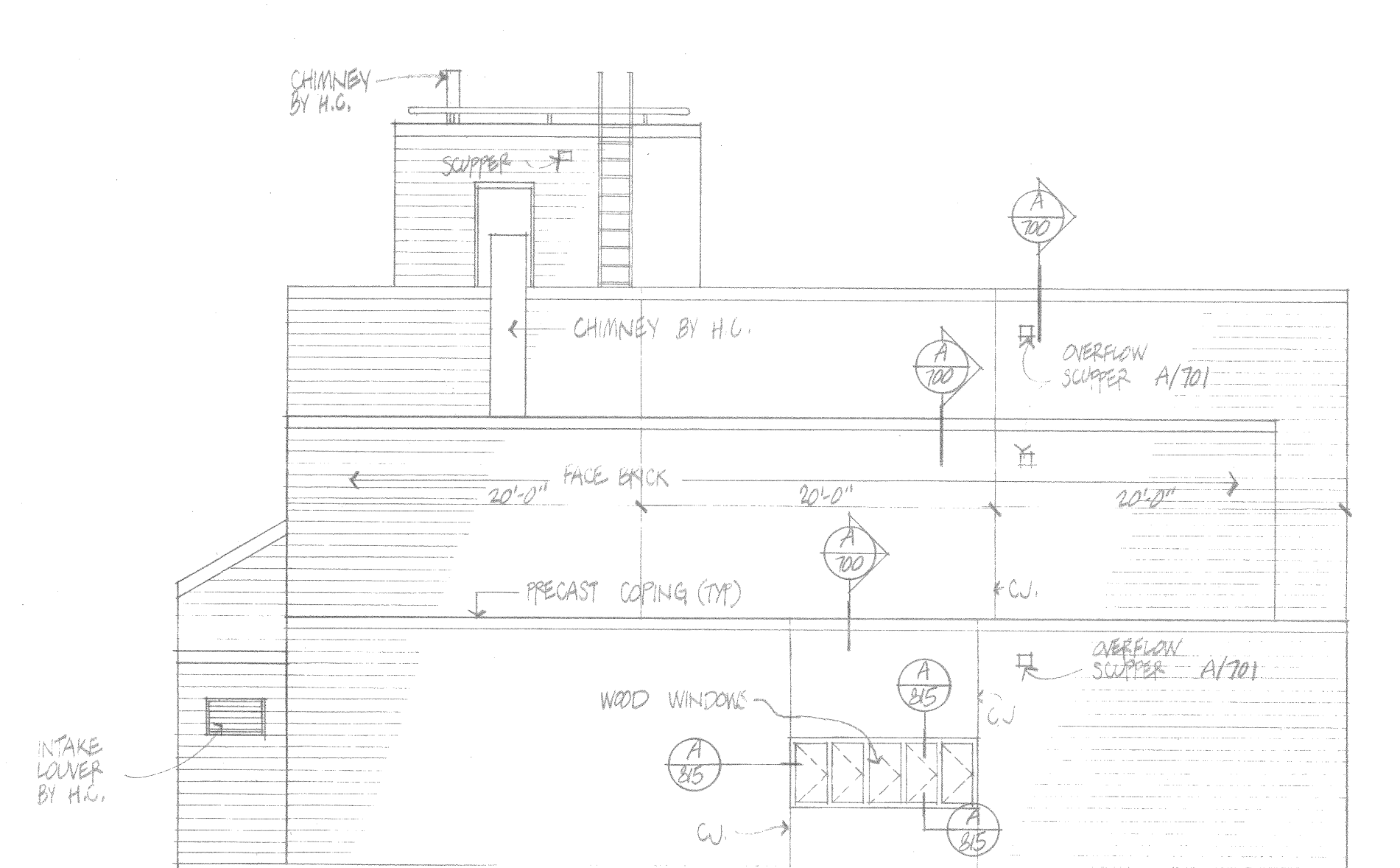




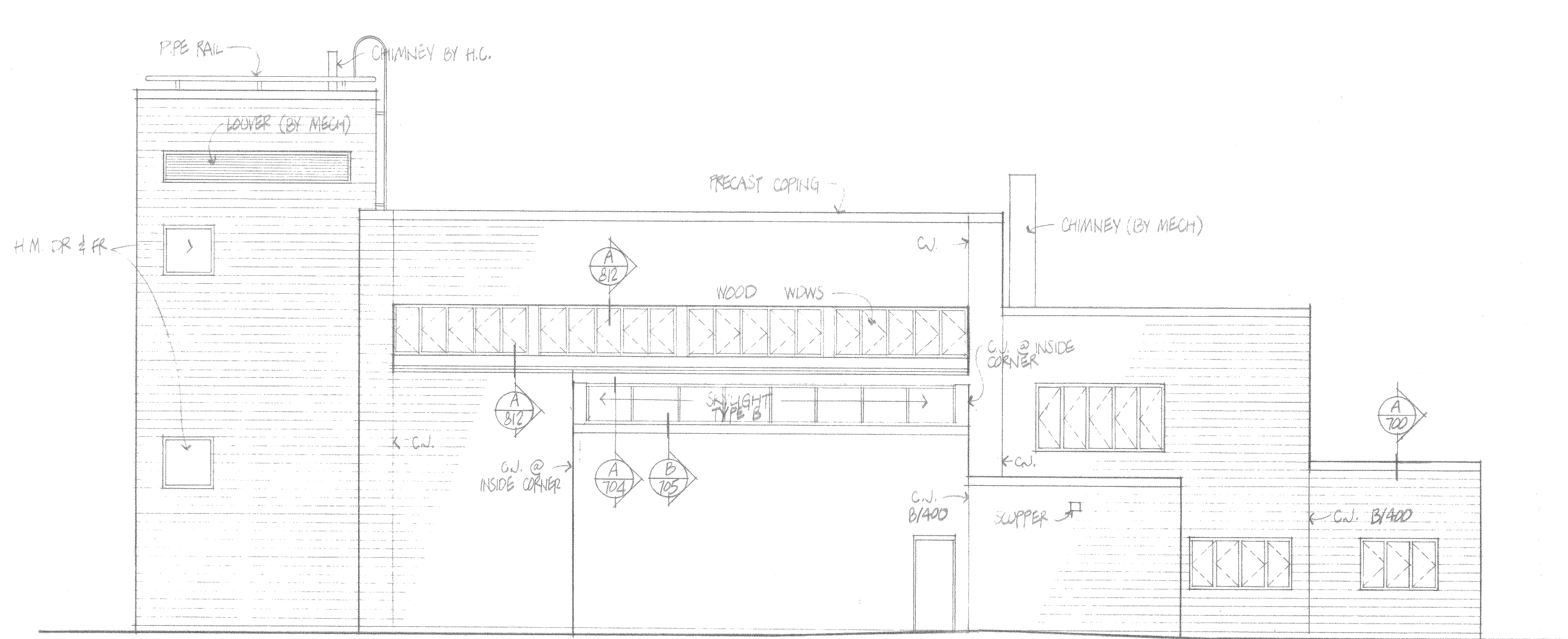
West (alternate #2)



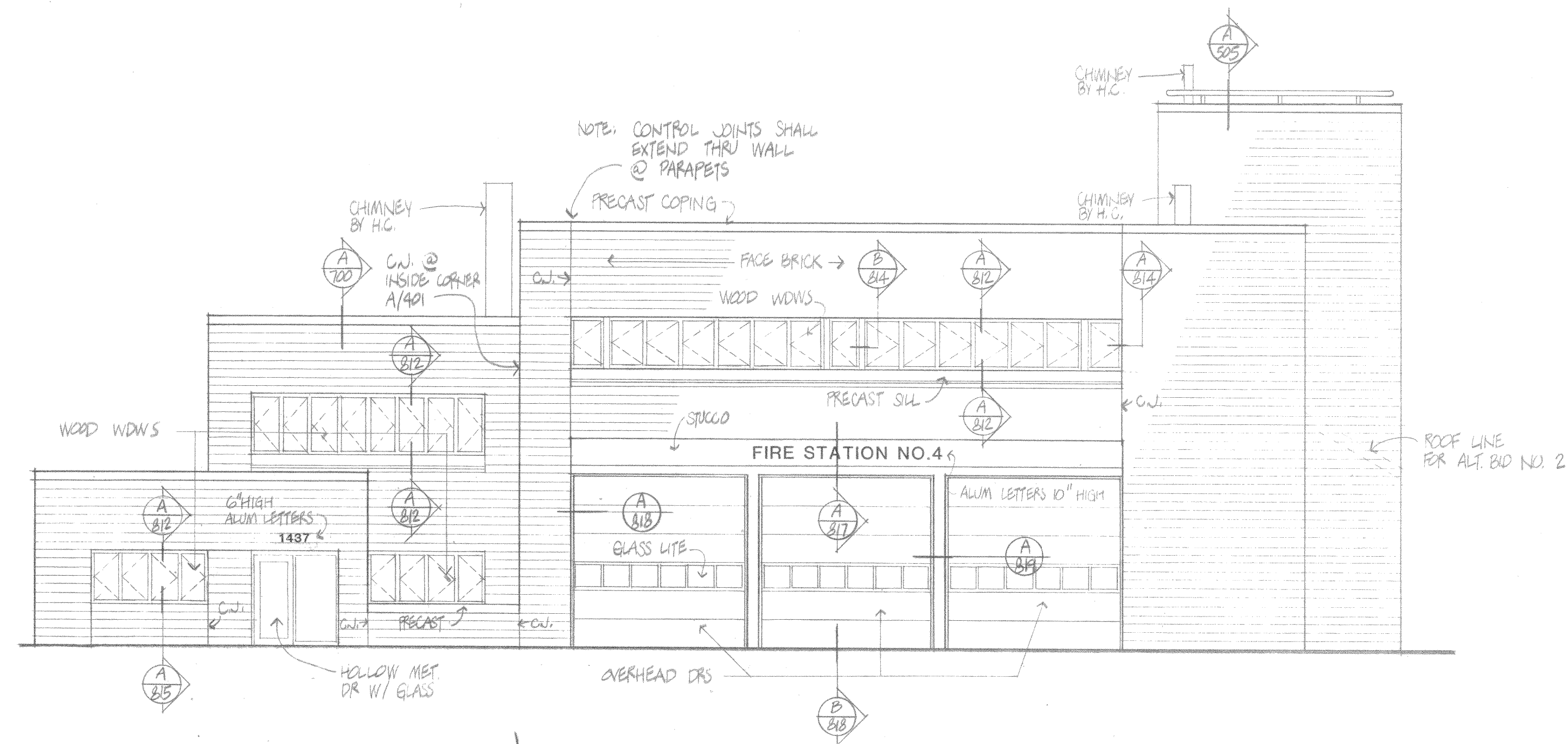
West



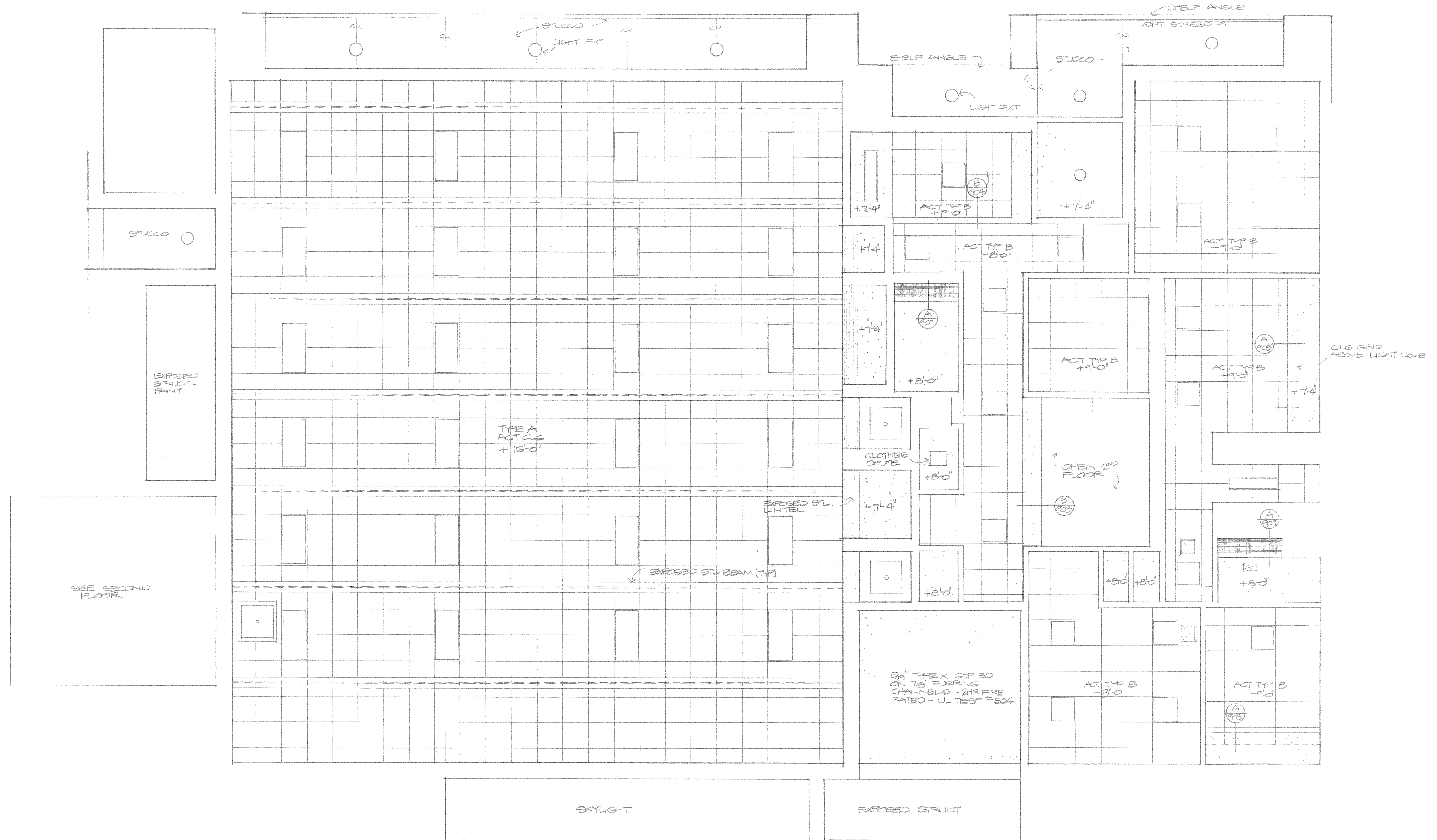
East




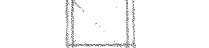


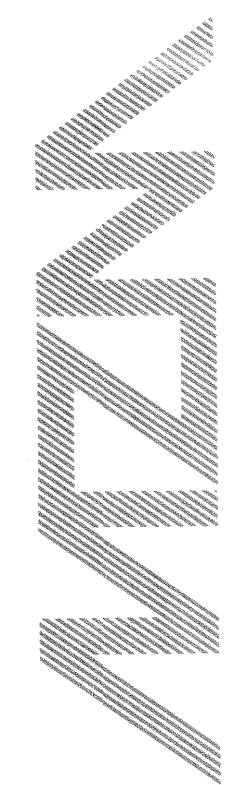
South

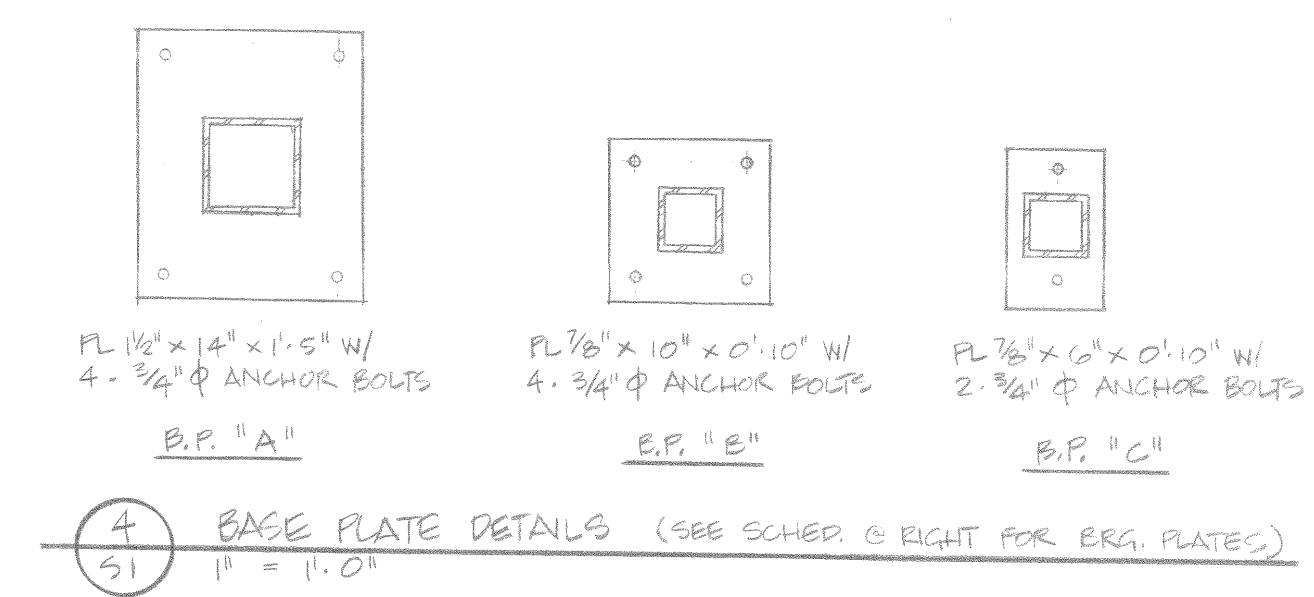
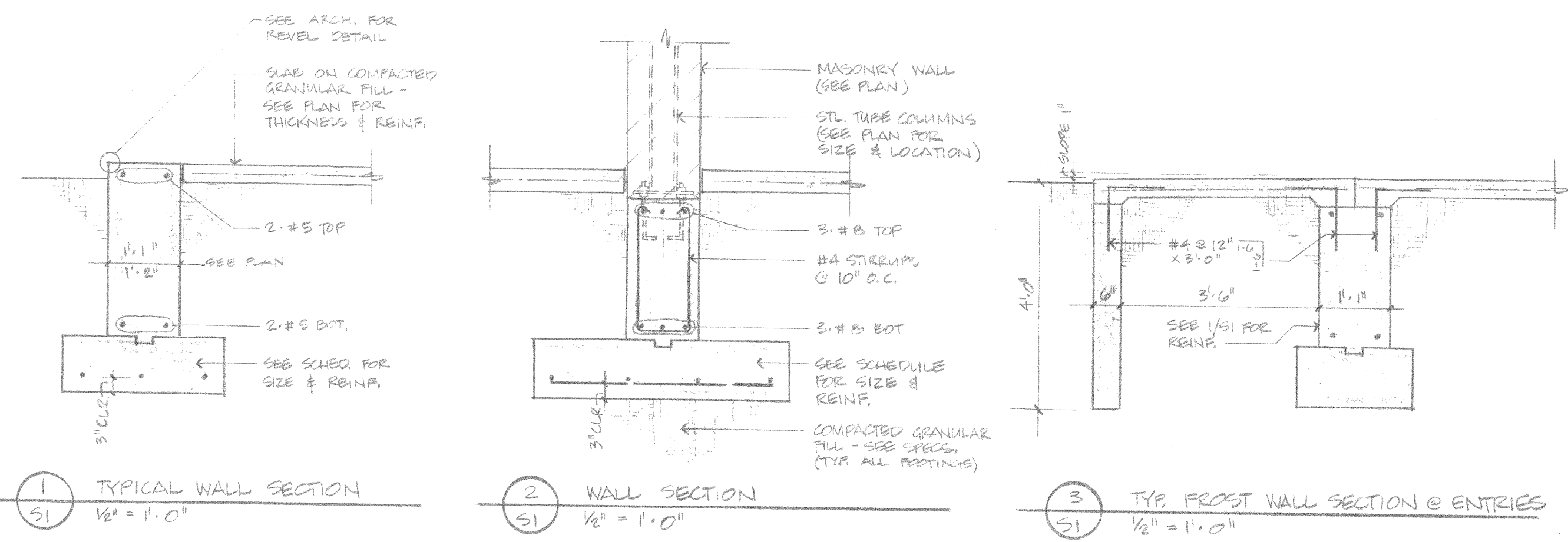


North



- SYMBOLS**
-  SUSPENDED GYP BD
 -  LAY-IN ACOUSTIC CLG
 -  LIGHT FIXT BY E.C.
 -  GRILLE BY H.C.

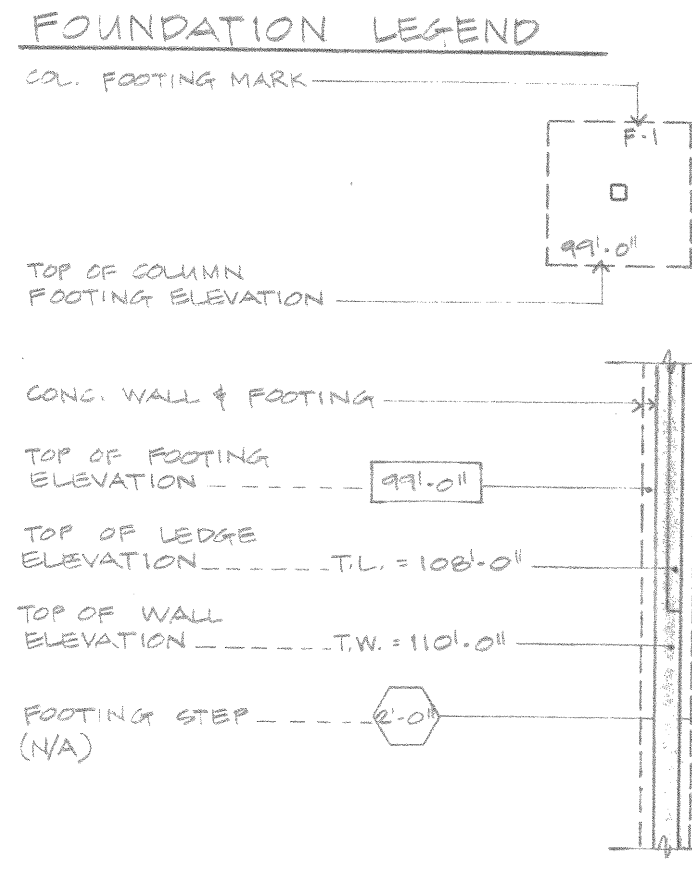
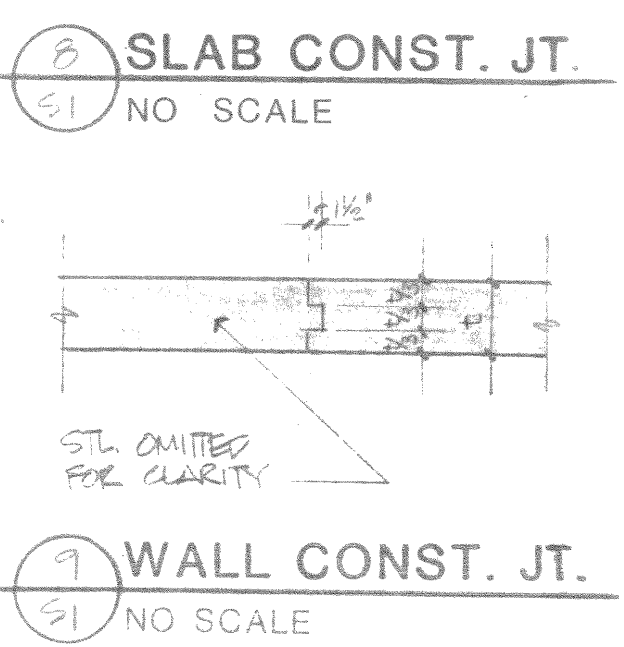
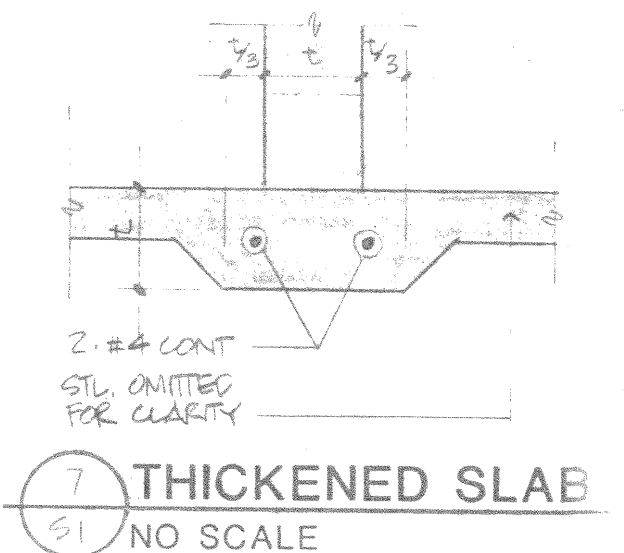
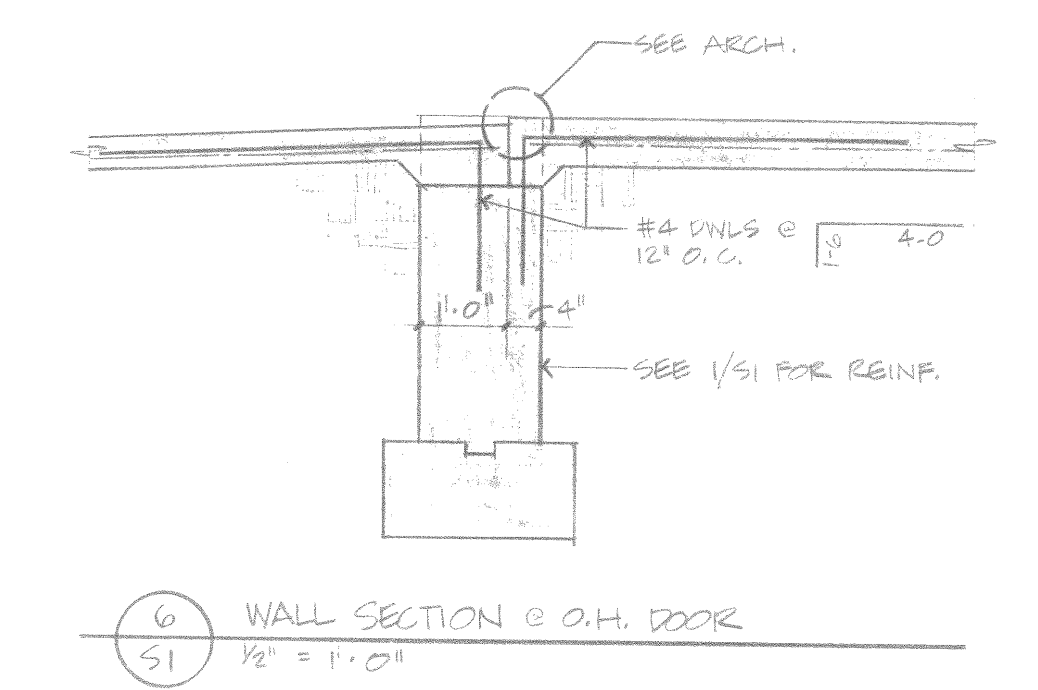
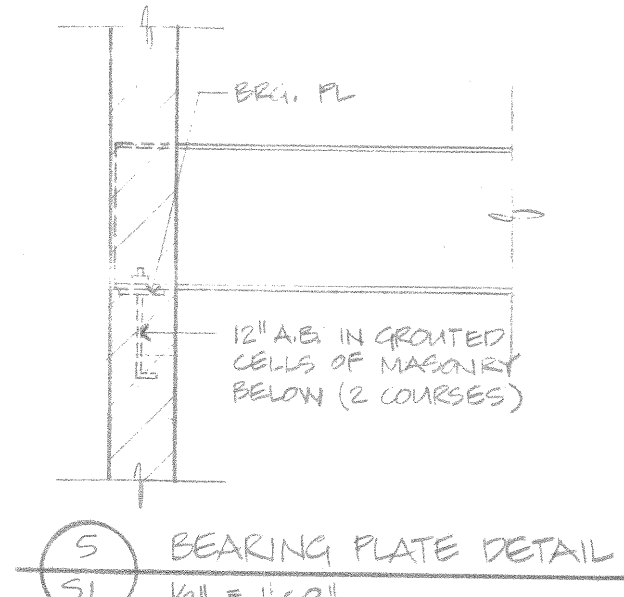




BEARING PLATE (BRG. PL.) SCHEDULE

MARK	PLATE / BOLT SIZE
'D'	PL 1/2" x 14" x 1'-0" W/ 2 - 1/2" ANCHOR BOLTS
'E'	PL 3/8" x 8" x 0'-9" W/ 2 - 1/2" ANCHOR BOLTS
'F'	PL 3/8" x 12" x 1'-3" W/ 2 - 3/4" x 12" ANCHOR BOLTS
'G'	PL 3/8" x 8" x 1'-0" W/ 2 - 1/2" ANCHOR BOLTS
'H'	PL 3/8" x 8" x 1'-2" W/ 2 - 1/2" ANCHOR BOLTS

* TYPICAL @ W27 X 84 BEARING LOCATIONS



- REINFORCING NOTES
- Reinforcing shall be detailed in accordance with ACI 315-74.
 - All laps shall be Class "C" unless noted otherwise on the design drawings or unless the detailer takes special care to provide staggered laps. Use top bar lap lengths for all horizontal wall bars and for top bars in slabs and beams over 14" deep.
 - Lap length shall be specifically noted on placing drawings where more than one bar makes up a continuous string.
 - Corner bars with Class "C" laps shall be provided at all wall corners and intersections per ACI 315-74 Figure 2-9, excluding top center detail.
 - Horizontal bars, except for continuous strings from one corner or opening to another, shall be detailed to show the distance from at least one end of the bar to the nearest building grid line or wall.
 - Welded Wire Fabric shall be lapped and/or anchored to develop f_y per ACI 315-74.

DESIGN LIVE LOADS

TYPICAL FLOOR - 80 PSF

STAIRS, CORRIDORS, ETC. - 100 PSF

TYPICAL ROOF - 30-110 PSF

WIND - 20 PSF

DESIGN STRESSES

CONC. WALLS, FTG. & SLAB ON GRADE - $f_c = 3$ KSI

CONC. FLOORS & ROOF DECKS - $f_c = 4$ KSI

STRUCTURAL STEEL - $f_y = 36$ KSI

REINFORCING STEEL (TYP.) - $f_y = 60$ KSI

REINFORCING STEEL (TIES, STIRRUPS) - $f_y = 40$ KSI

SOIL BEARING PRESSURES - $q = 2500$ PSF

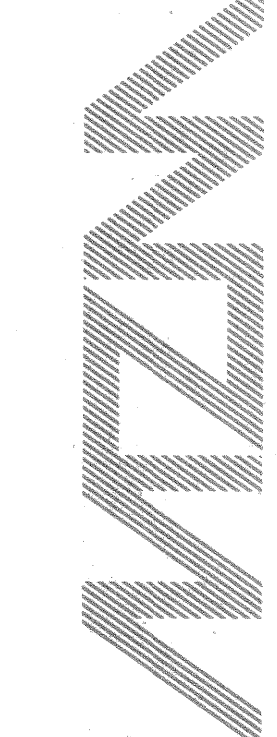
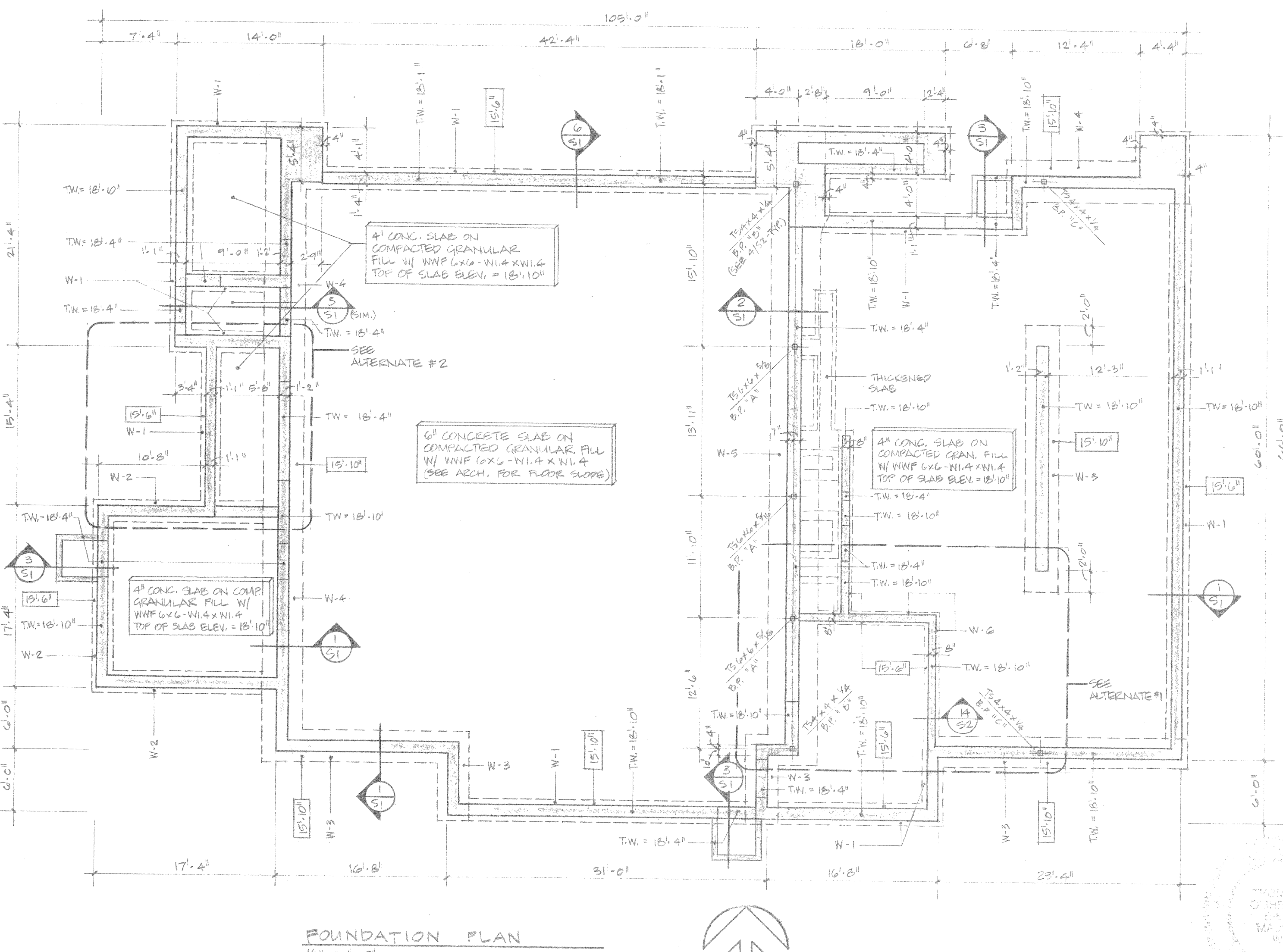
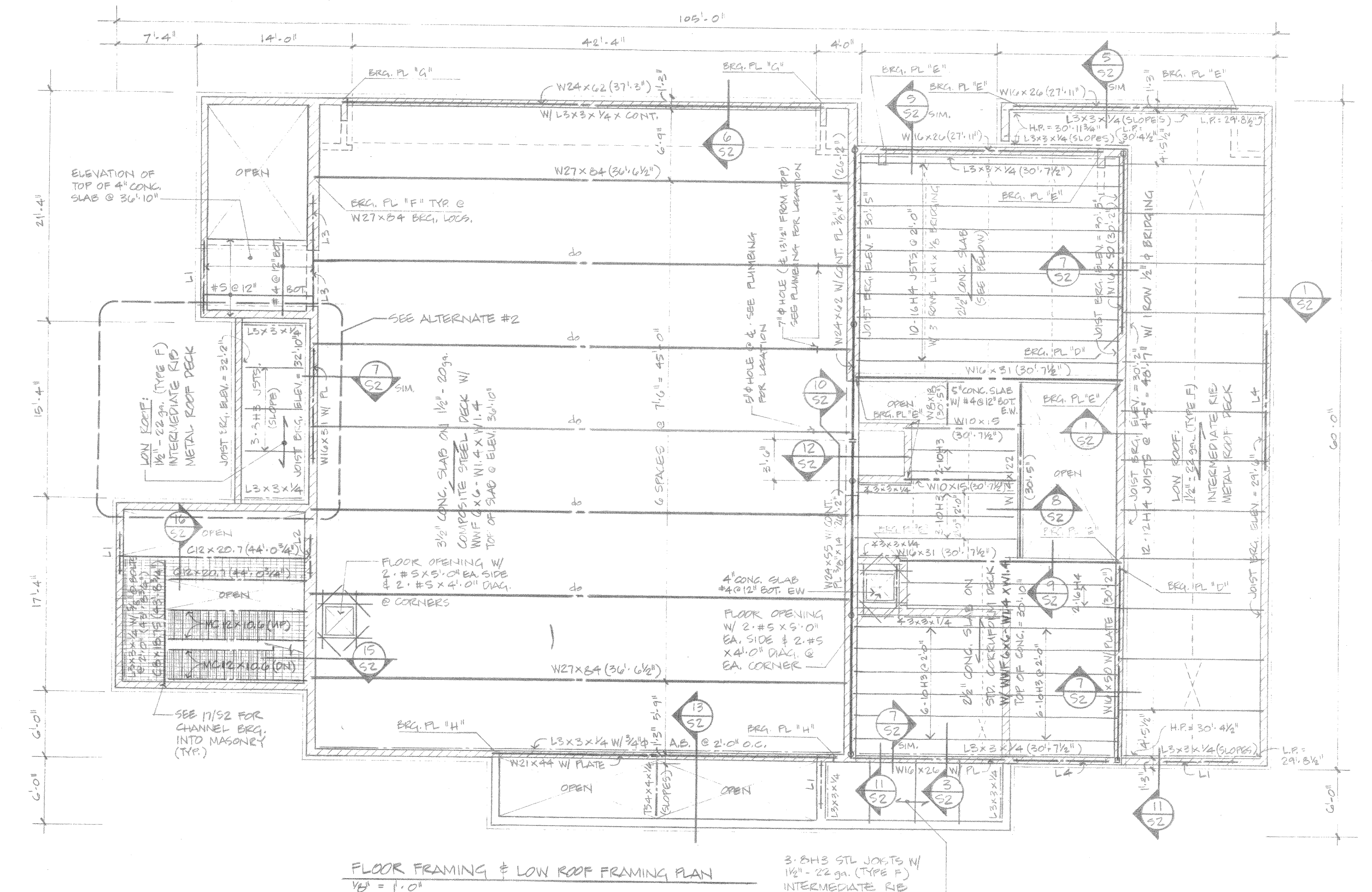
FOOTING SCHEDULE

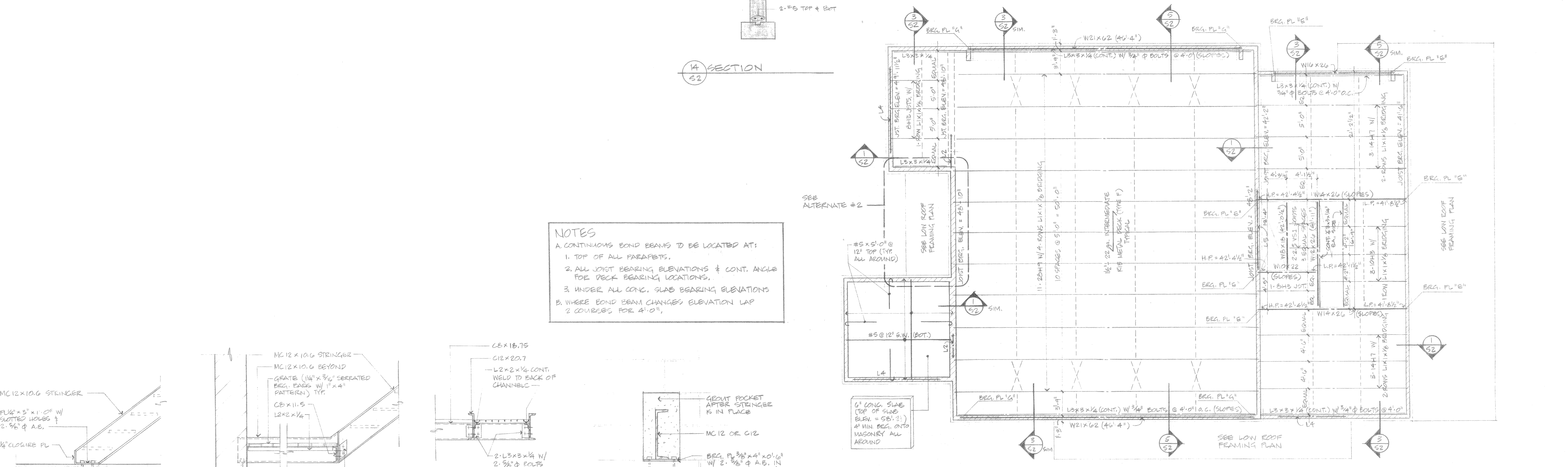
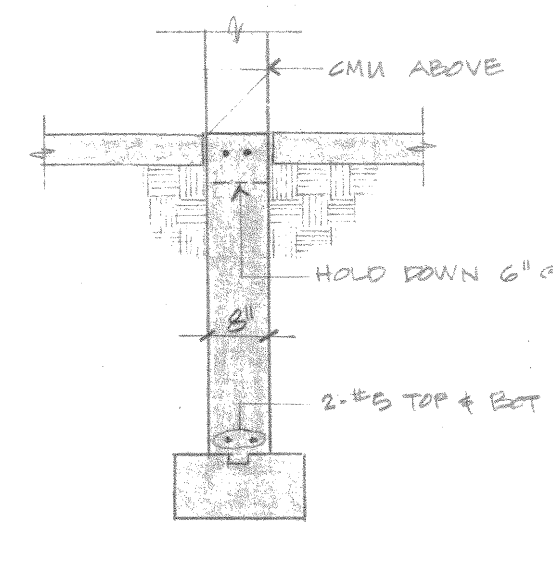
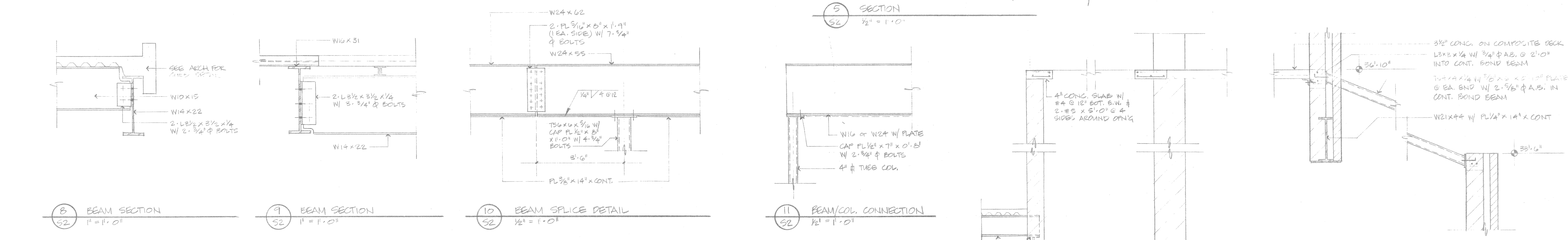
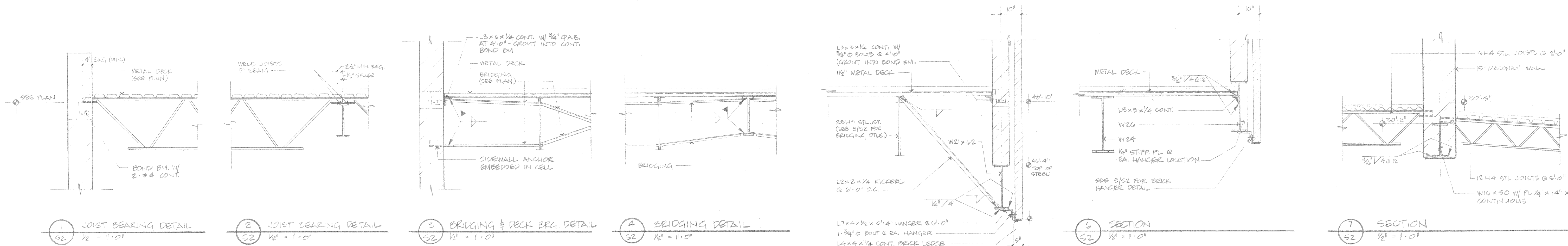
MARK	WIDTH	DEPTH	REINFORCING
W-1	28"	8"	
W-2	28"	5"	
W-3	30"	12"	5-#5 LONGITUDINAL
W-4	48"	12"	5-#5 @ 16" TRANSVERSE 4-#5 LONGITUDINAL
W-5	54"	12"	5-#5 @ 10" TRANSVERSE 4-#5 LONGITUDINAL
W-6	16"	8"	

LOOSE LINTEL SCHEDULE

MARK	SECTION	MIN. BEG.	DETAIL	REMARKS
L1	3-L 3/8" x 3/8" x 1/4"	0"	JLL	8" BLK + 2 1/2" INSUL. + 4" BRK
L2	4-L 3/8" x 3/8" x 1/4"	0"	JLL	15" BLOCK
L3	4-L 5/8" x 3/8" x 1/4"	8"	JLL LLV	15" BLOCK
L4	W5 x 15 W PL 1/2" x 7" x CONT. L6 x 3/4" x 8"	12"	JLL (SEE DET.) LLV	SUPPLY 2-1/2" x 12" ANCHOR BOLTS @ EACH END.
L5	W5 x 24 W PL 1/2" x 7" x CONT. L6 x 3/4" x 8"	12"	JLL (SEE DET.) LLV	

FOR LINTELS NOT SHOWN ON PLANS, PROVIDE 1-L 3/8" x 3/8" x 1/4" FOR EVERY 4" OF MASONRY WIDTH.



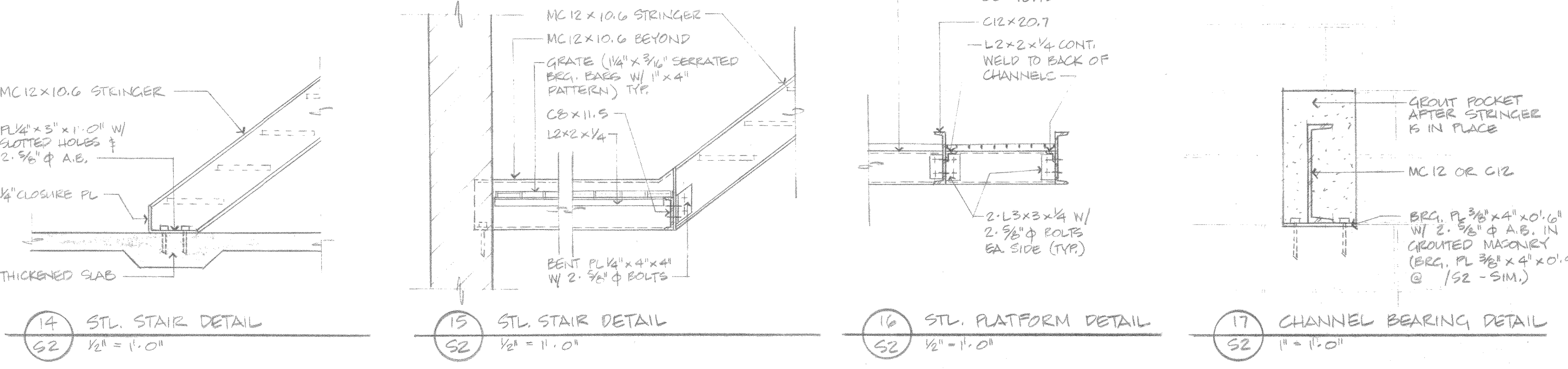


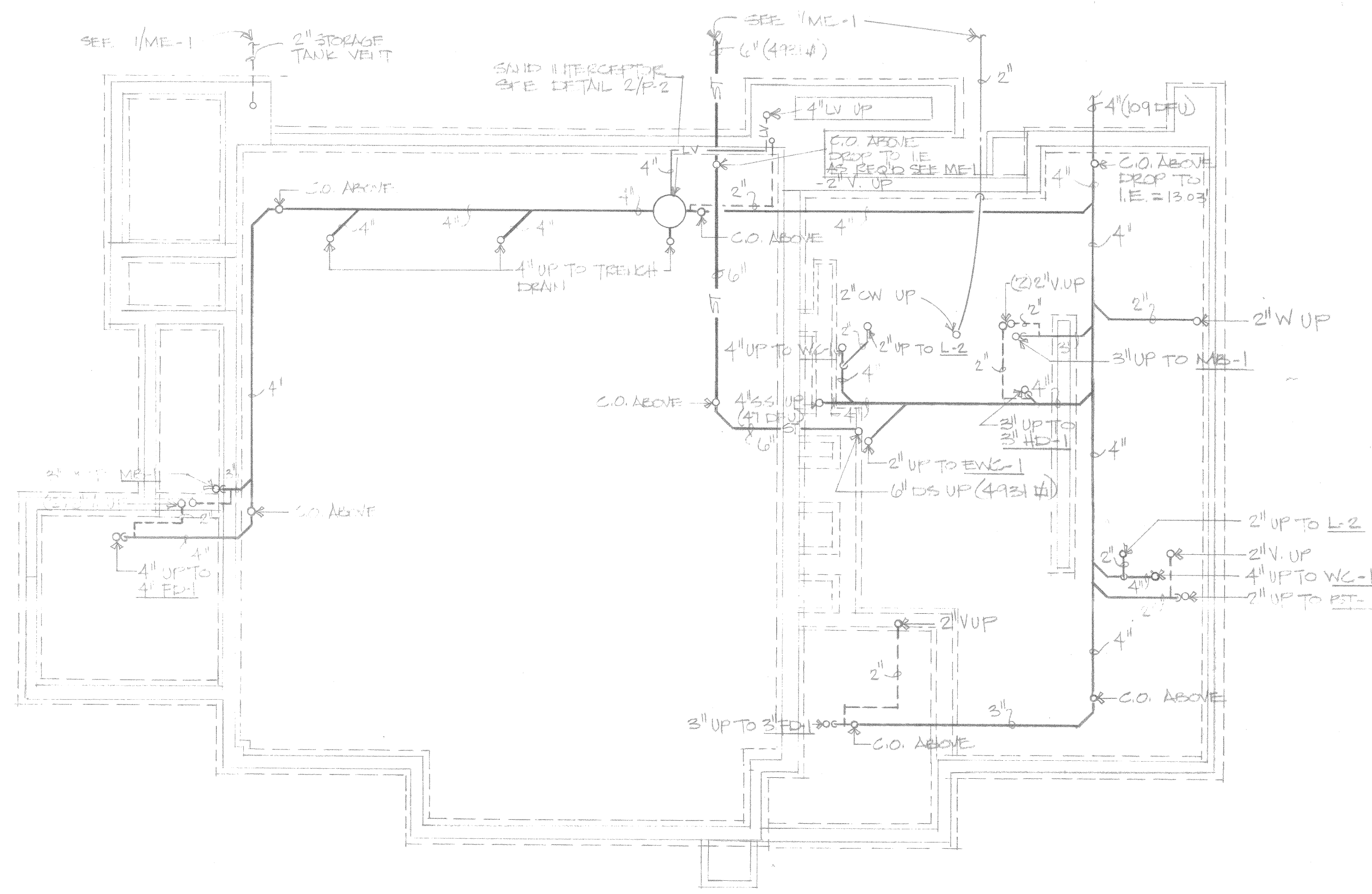
NOTES

A. CONTINUOUS BOND BEAMS TO BE LOCATED AT:

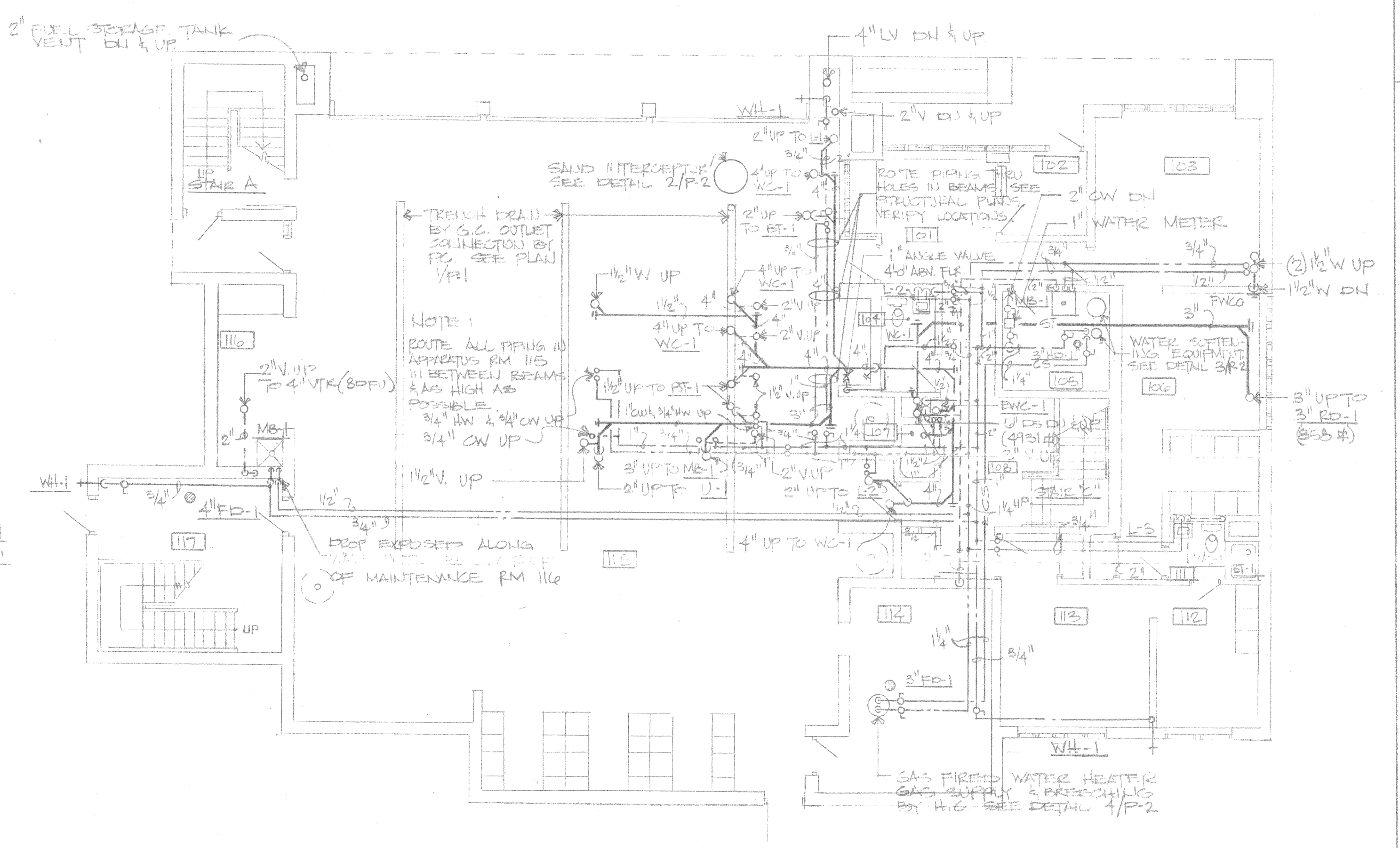
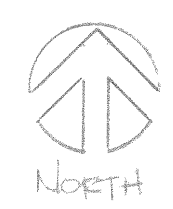
1. TOP OF ALL PARAPETS.
2. ALL JOIST BEARING ELEVATIONS & CONT. ANGLE FOR DECK BEARING LOCATIONS.
3. UNDER ALL CONC. SLAB BEARING ELEVATIONS

B. WHERE BOND BEAM CHANGES ELEVATION LAP 2 COURSES FOR 4'-0".

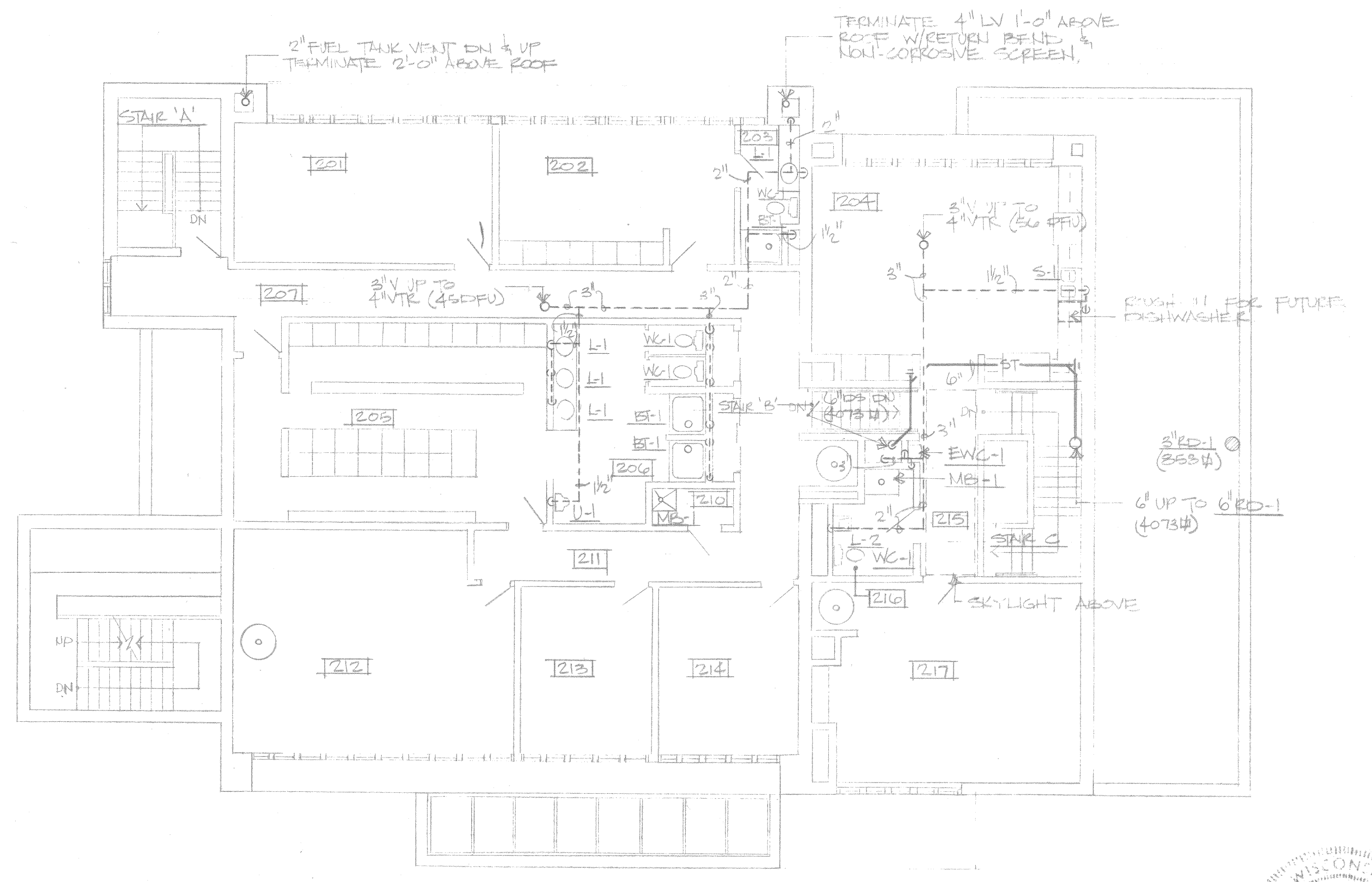




1 FOUNDATION/BASEMENT PLAN
1/8" = 1'-0"



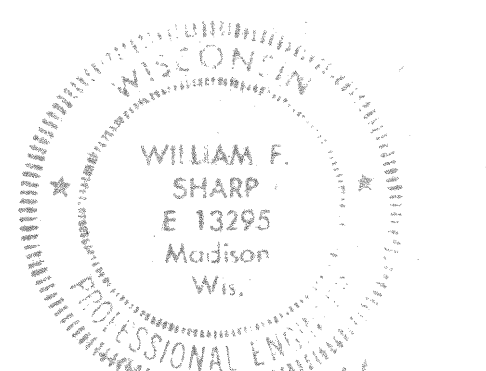
2 FIRST FLOOR PLAN
1/8" = 1'-0"



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

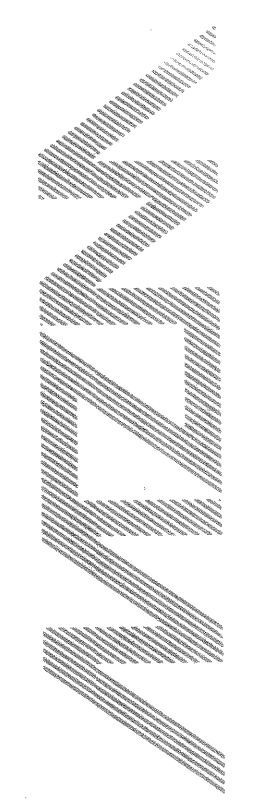


PLUMBING SYMBOL SCHEDULE			
—S—	SANITARY SEWER	EC	ELECTRICAL CONTRACTOR
—ST—	STORM SEWER	GC	GENERAL CONTRACTOR
—V—	VENT	HG	HEATING CONTRACTOR
—C—	COLD WATER	PC	PLUMBING CONTRACTOR
—H—	HOT WATER	HD	HOSE BIBS
—LV—	LOCAL VENT	HW	HOT WATER
—R—	RISER DOWN/UP	IE	INSECT ELEVATION
—S—	SALL VALVE	JS	JANITOR SINK
—G—	GATE VALVE	L	LAVATORY
—H—	WALL HYDRANT	M.H.	MANHOLE
—C—	CLEANOUT	RD	ROOF DRAIN
—U—	UNION	SFU	SUPPLY FIXTURE UNITS
C.O.	CLEANOUT	V	VENT
CW	COLD WATER	VTR	VENT THRU ROOF
DFU	DRAINAGE FIXTURE UNITS	W	WASTE
ENC	ELECTRIC WATER COOLER	WC	WATER CLOSET
FD	FLOOR DRAIN	U	URINAL
FWCO	FINISHED WALL CLEANOUT		



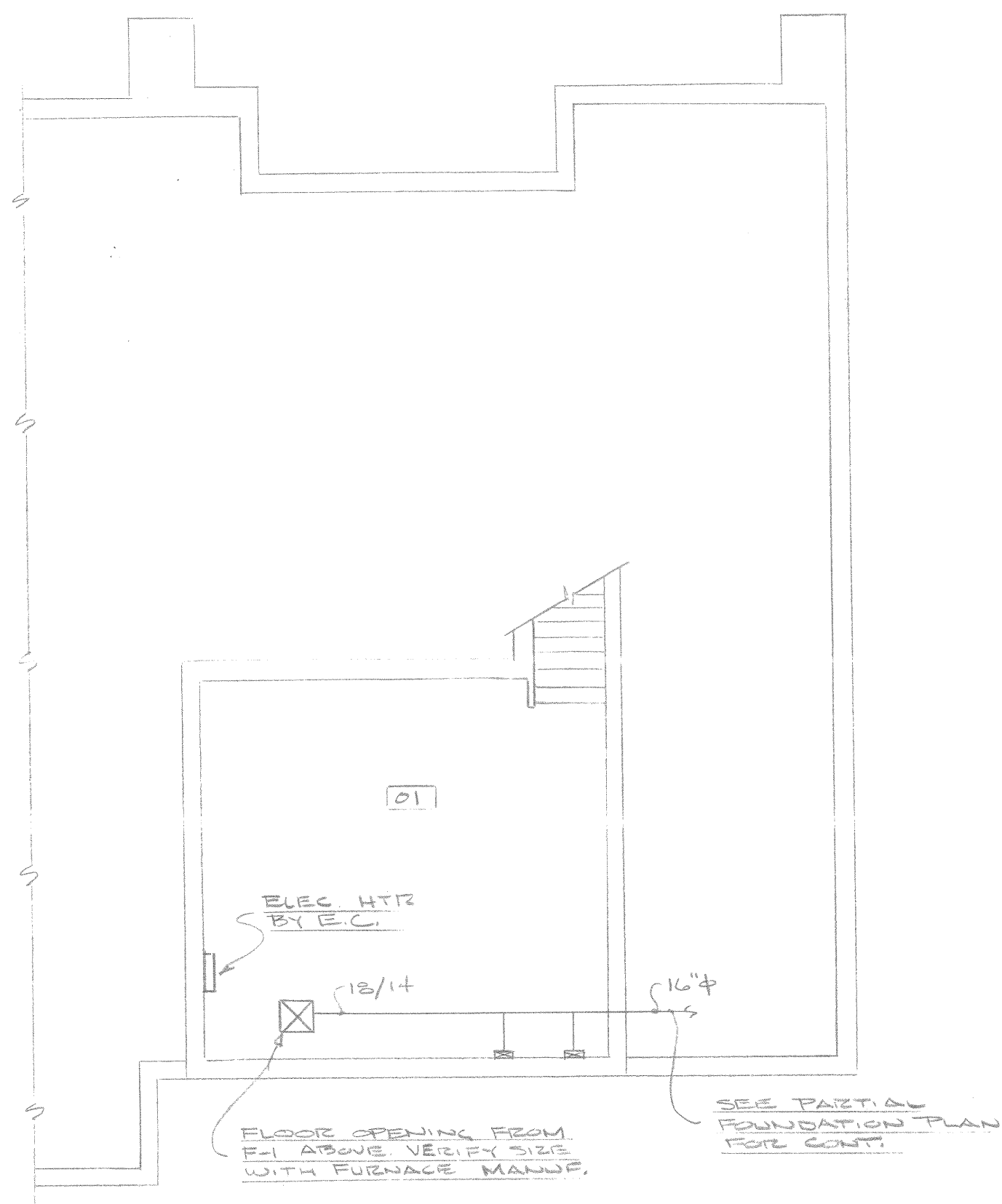
William F. Sharp
P-1 & P-2

Project Number
2222
Date
2/16/82
Drawing Number
Marlinsons / Zeck / Meyer
Planning / Architecture Engineering
605 West Washington Avenue
Madison, Wisconsin 53703



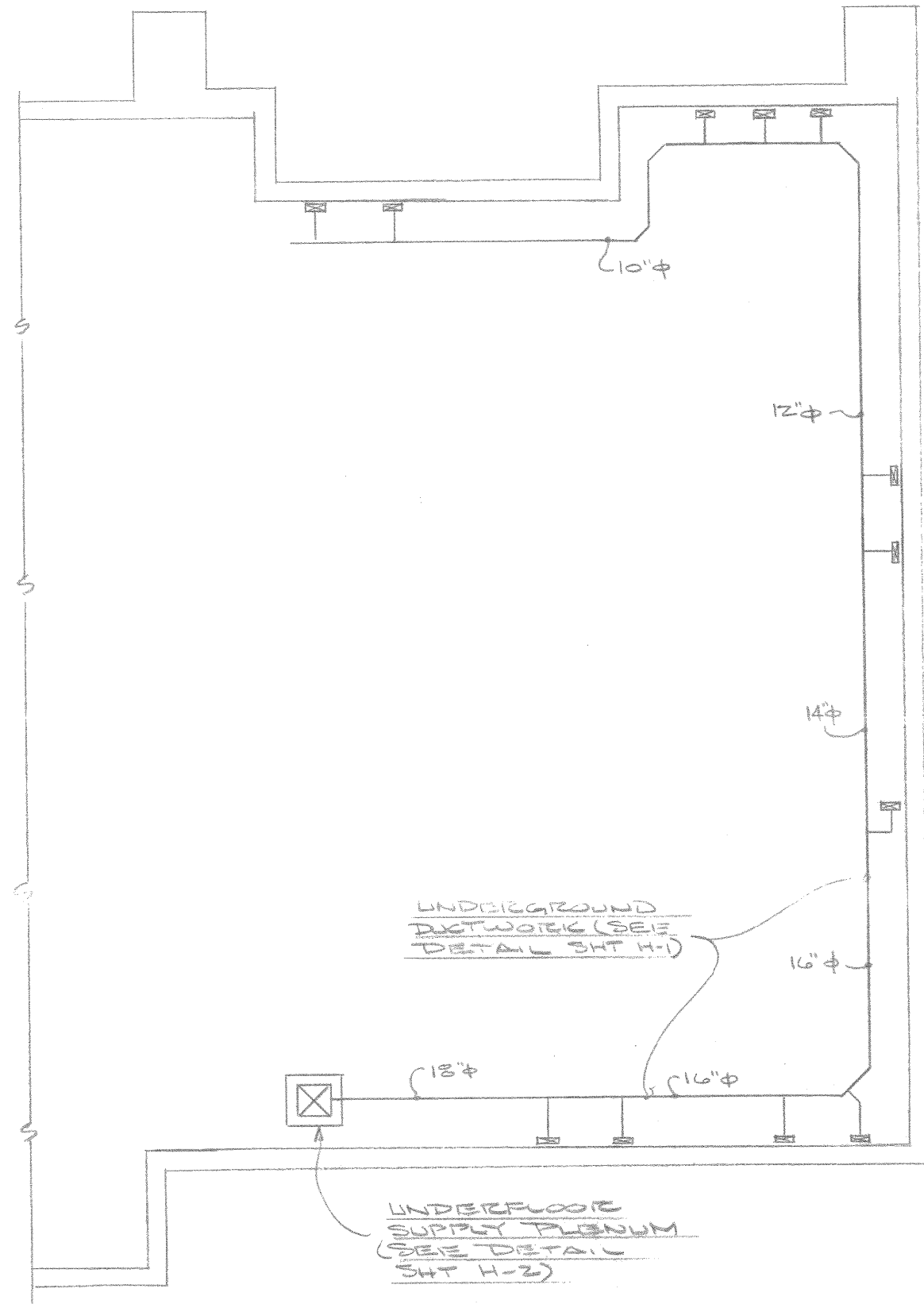
ANGUS S. DISHERIAN, INC.
CONSULTING ENGINEERS
1015 EXETER AVENUE
MADISON, WISCONSIN 53707
JOB NO. 2222-1-P
800-571-8881

FIRE STATION NO. 4
MADISON WI
1437 MONROE ST.
CITY OF MADISON FIRE DEPARTMENT



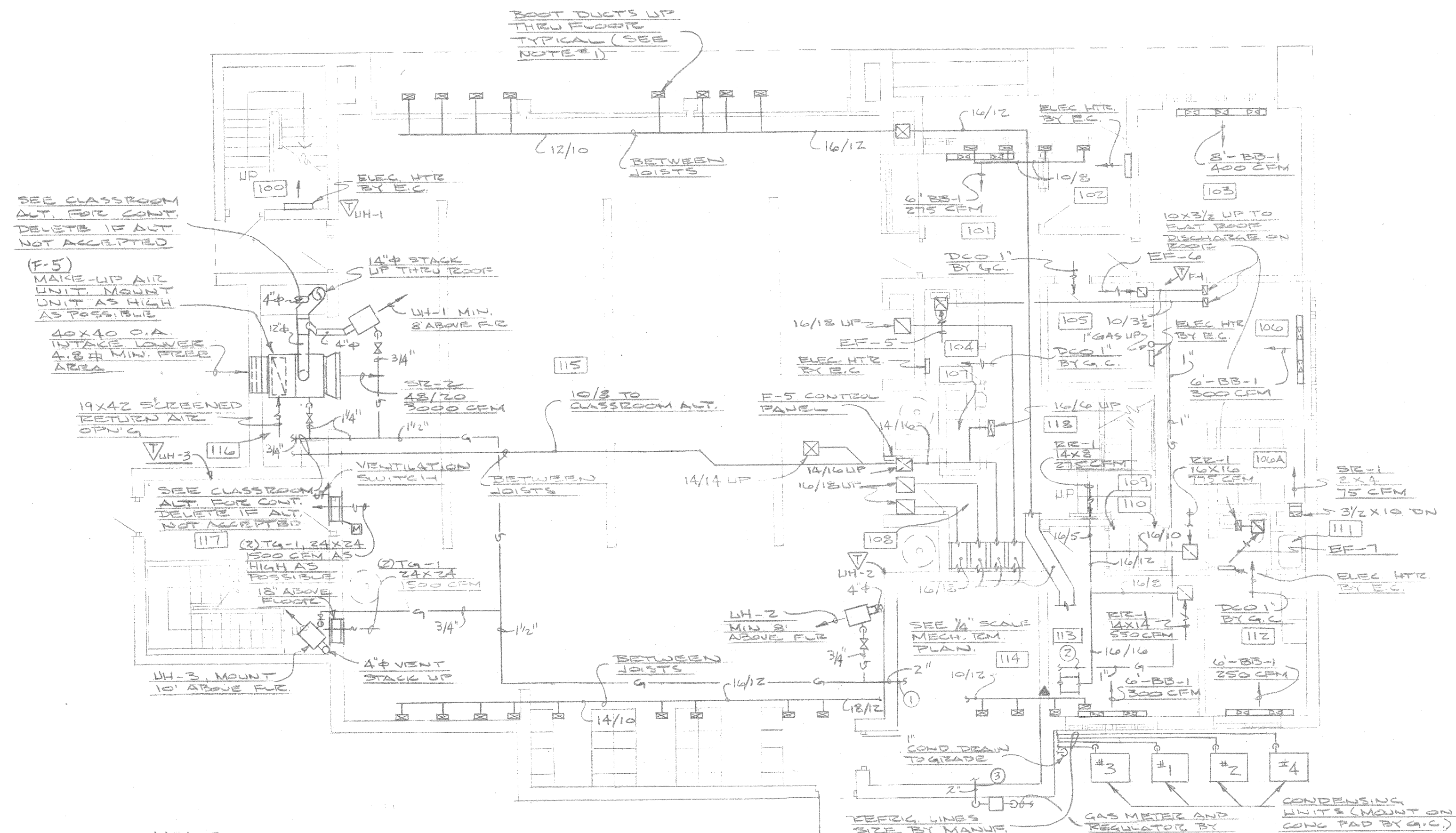
BASEMENT FLOOR PLAN (ALT. #1) - HVAC

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



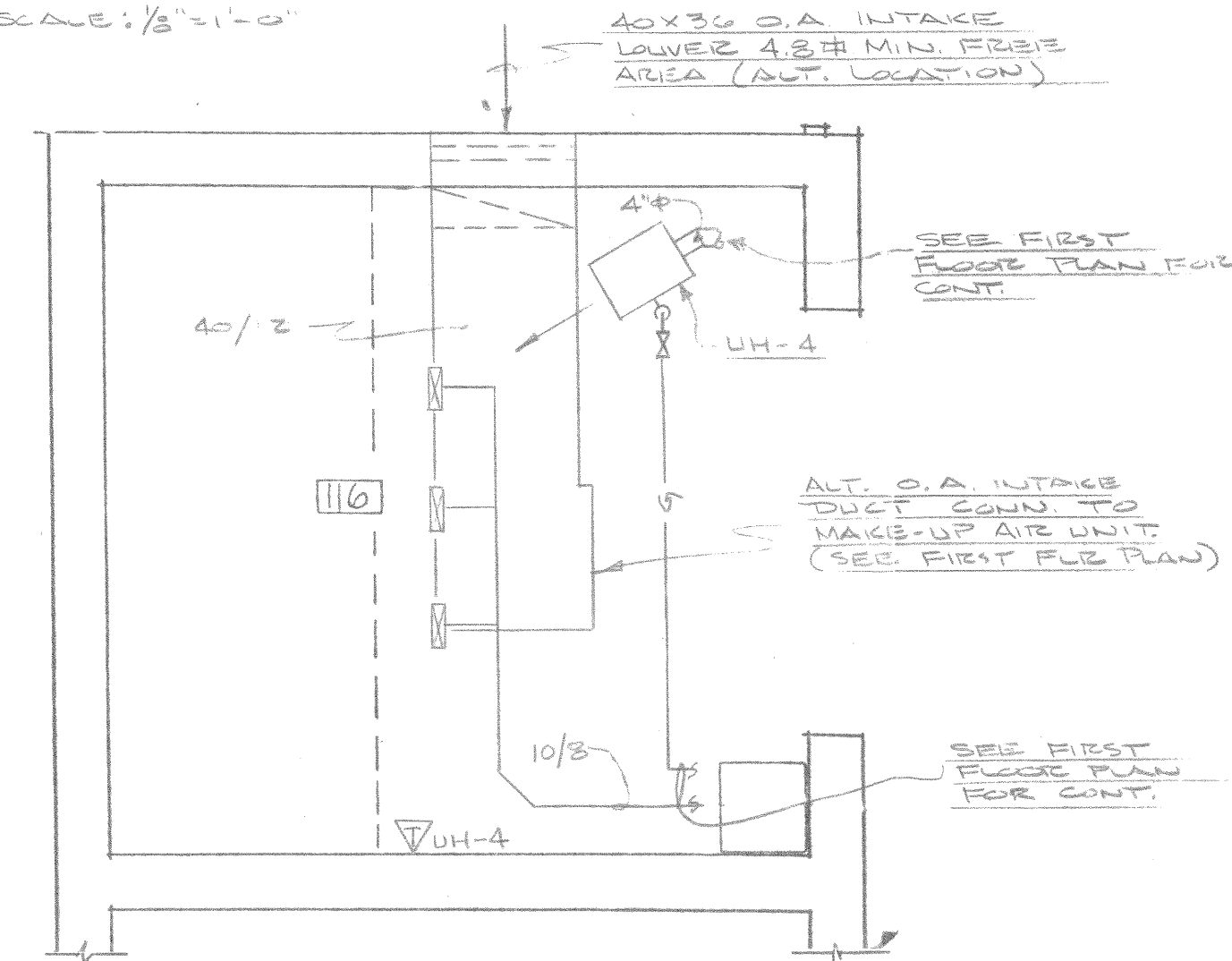
PARTIAL FOUNDATION PLAN - HVAC

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



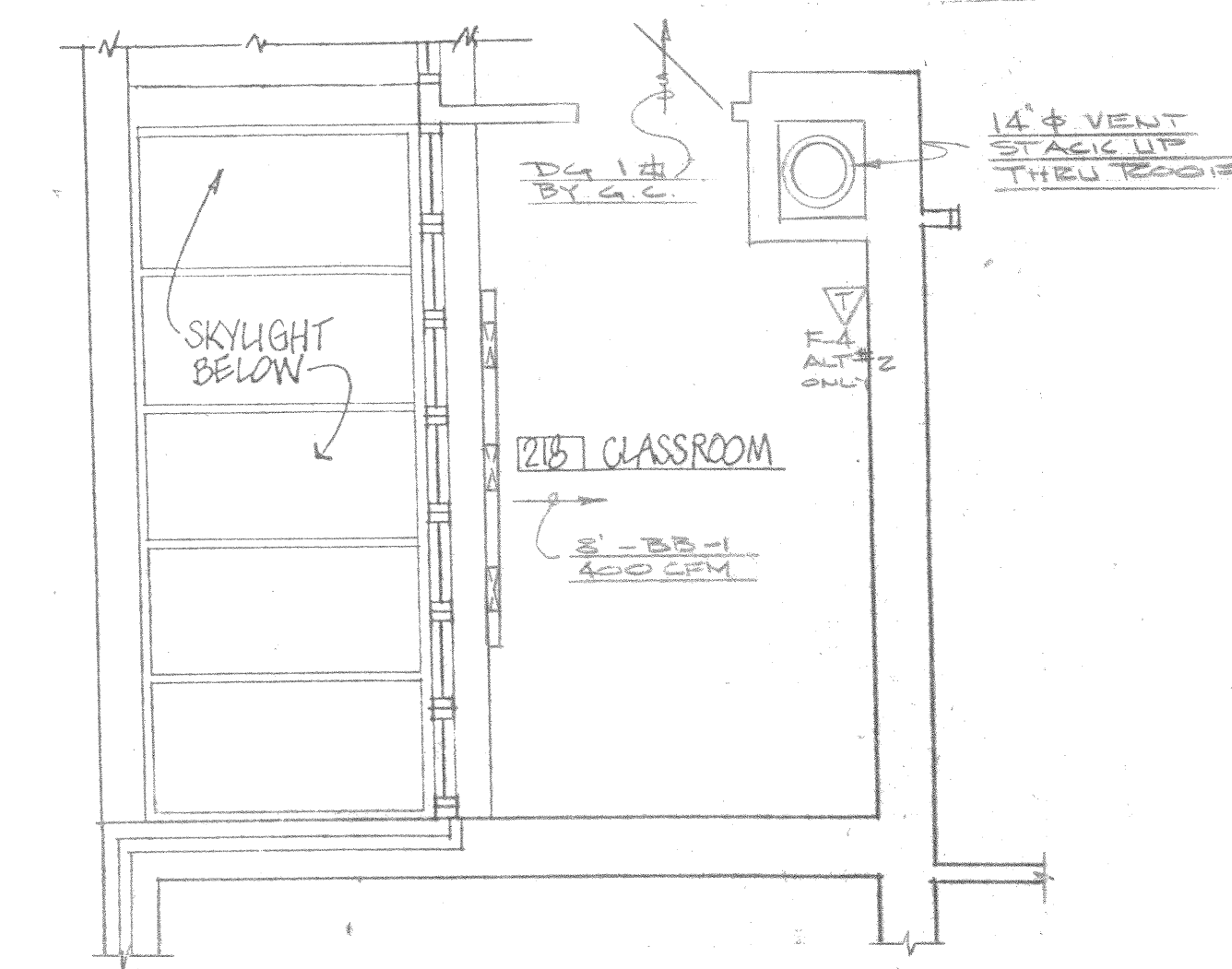
FIRST FLOOR PLAN - HVAC

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



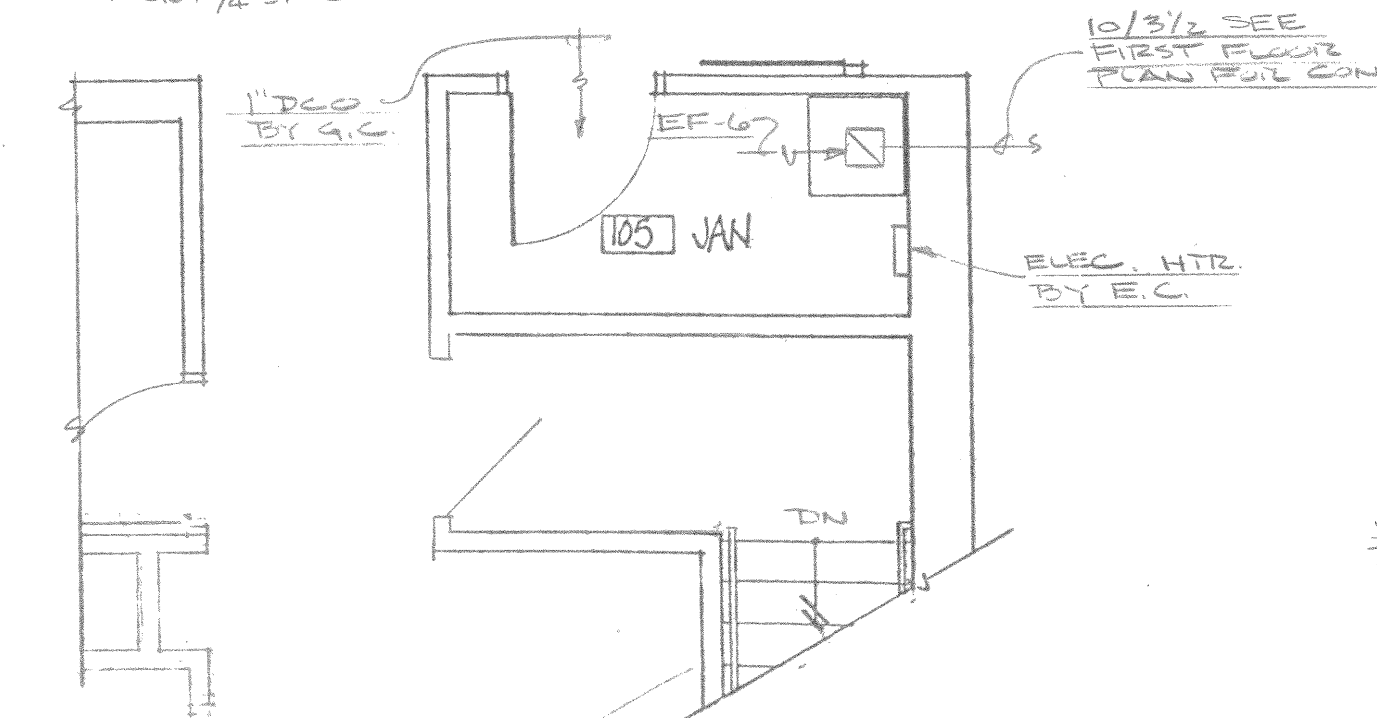
MAINTENANCE ROOM PLAN (ALT. #2) - HVAC

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



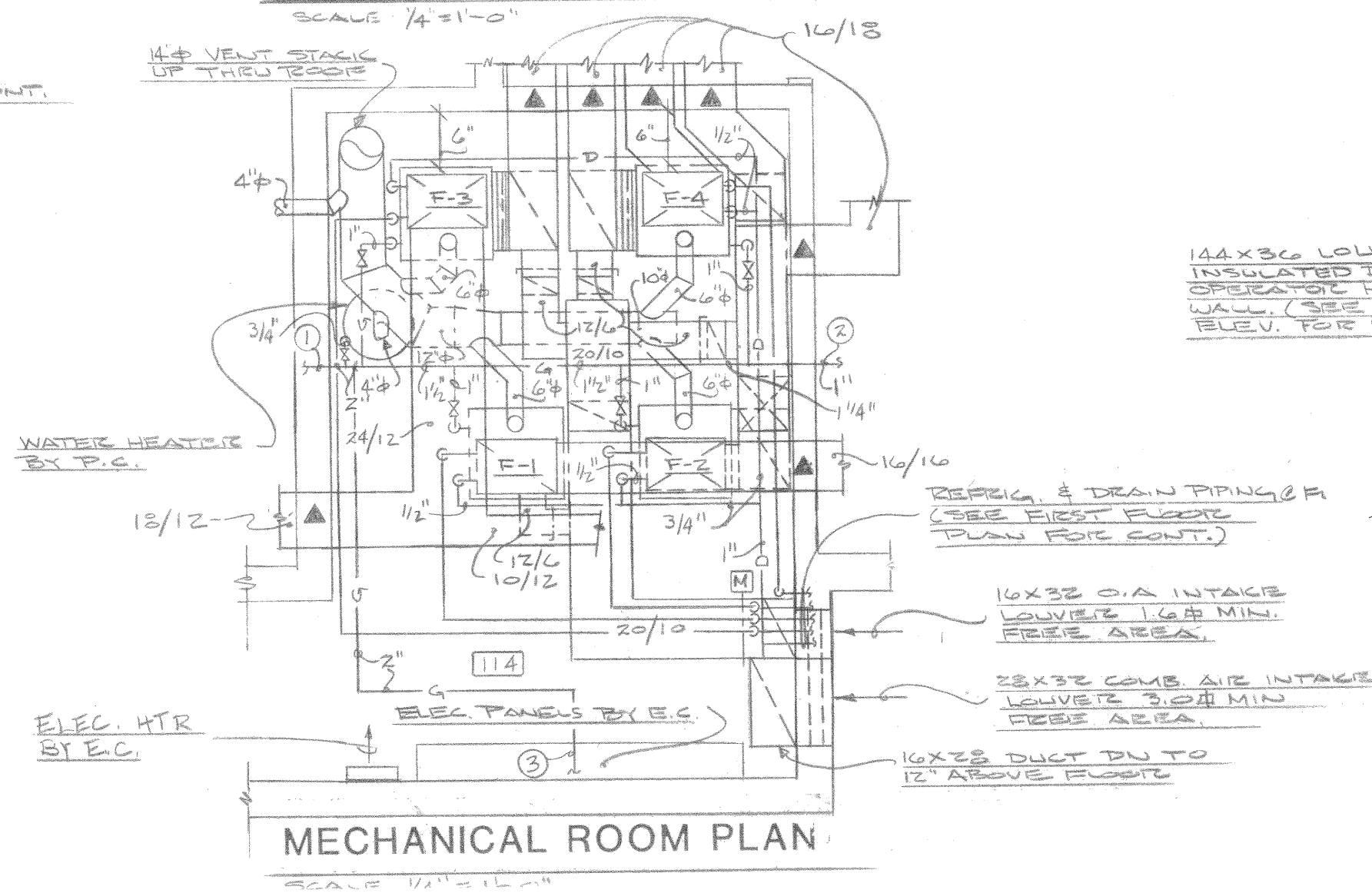
CLASSROOM FLOOR PLAN (ALT. #2) - HVAC

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



JANITOR ROOM FLOOR PLAN (ALT. #1) - HVAC

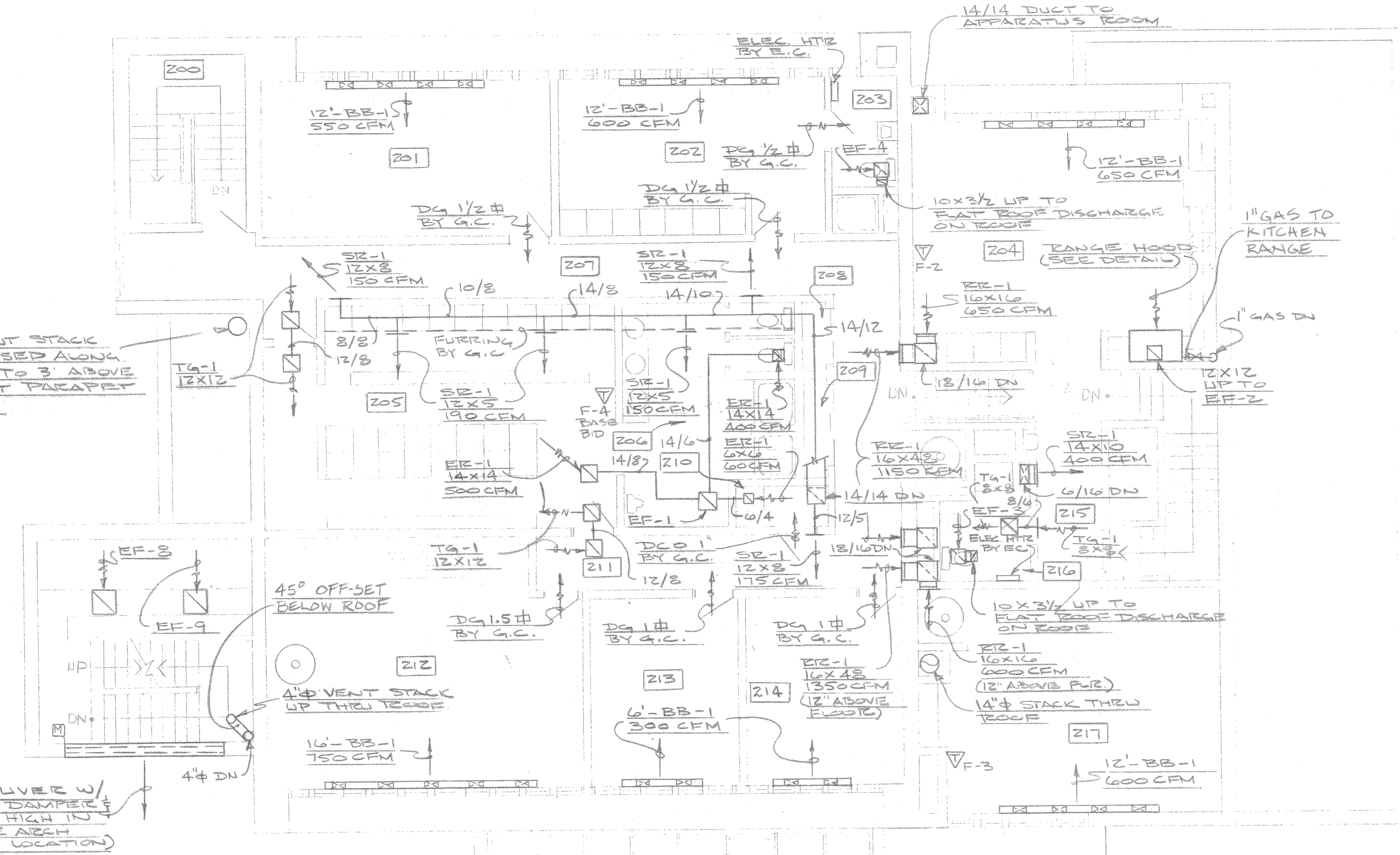
SCALE: 1/8" = 1'-0"



MECHANICAL ROOM PLAN

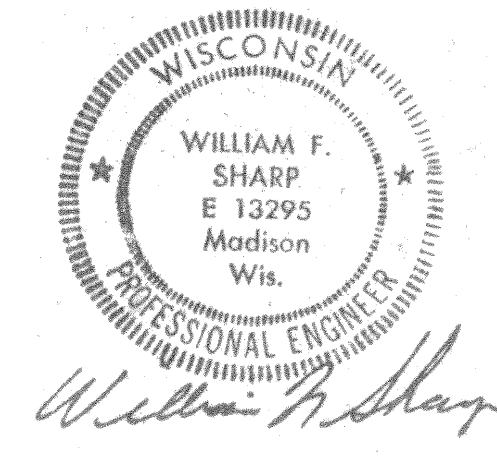
SCALE: 1/4" = 1'-0"

NOTES:
1. ALL ROOFS ARE 12X3/4 UNLESS OTHERWISE INDICATED.



SECOND FLOOR PLAN - HVAC

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



H1#4-2

Project Number
8202
Date
6/16/82
Drawing Number

Martinsons / Zeck / Meyer
Planning Architecture Engineering
625 West Washington Avenue
Madison Wisconsin 53703

ARNOLD & O'SHEAR, INC.
CONSULTING ENGINEERS
1000 UNIVERSITY DRIVE
MADISON, WISCONSIN 53707
PHONE: 278-1888

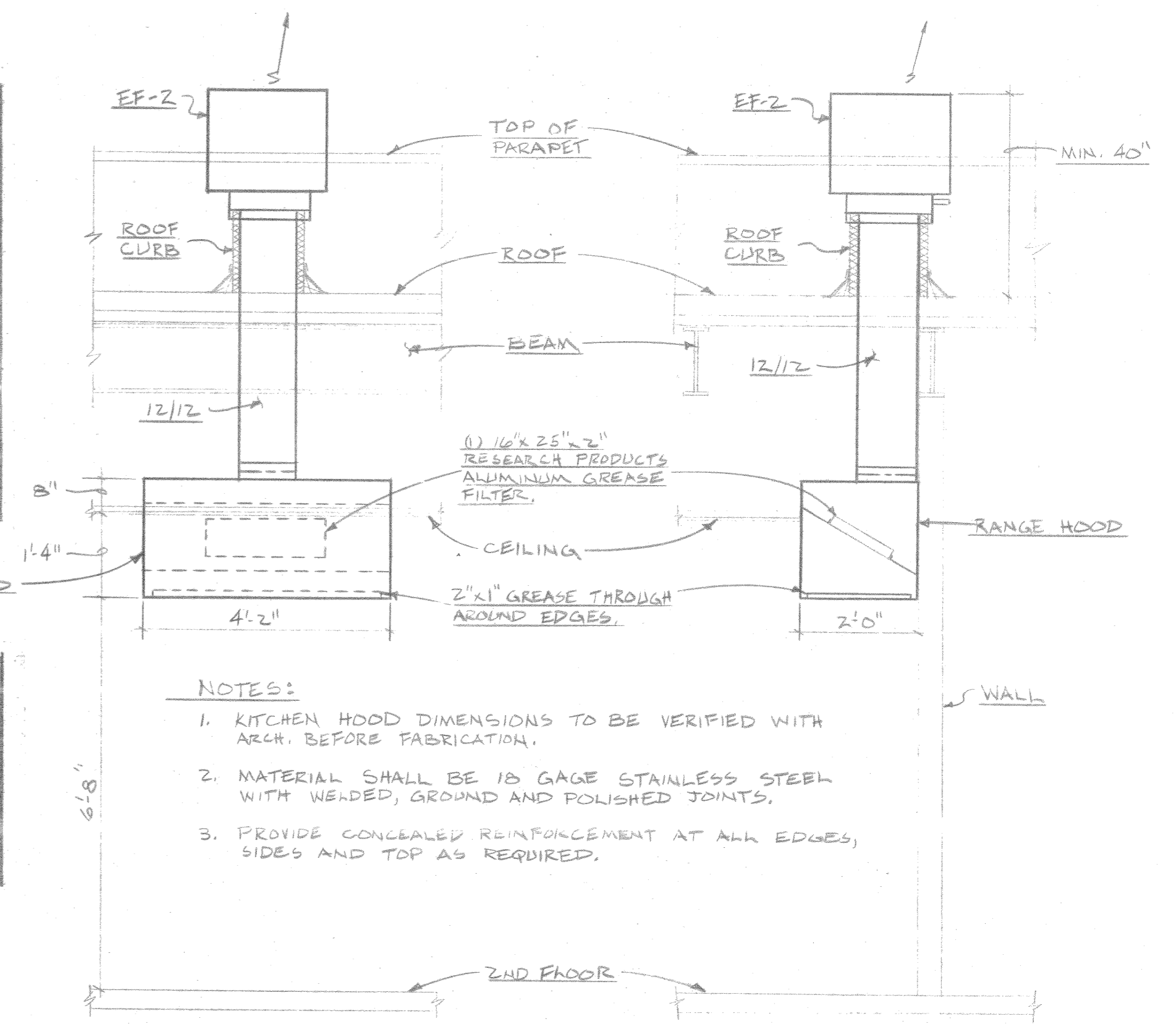
FIRE STATION NO. 4
MADISON WI
CITY OF MADISON FIRE DEPARTMENT
1437 MONROE ST.

H1

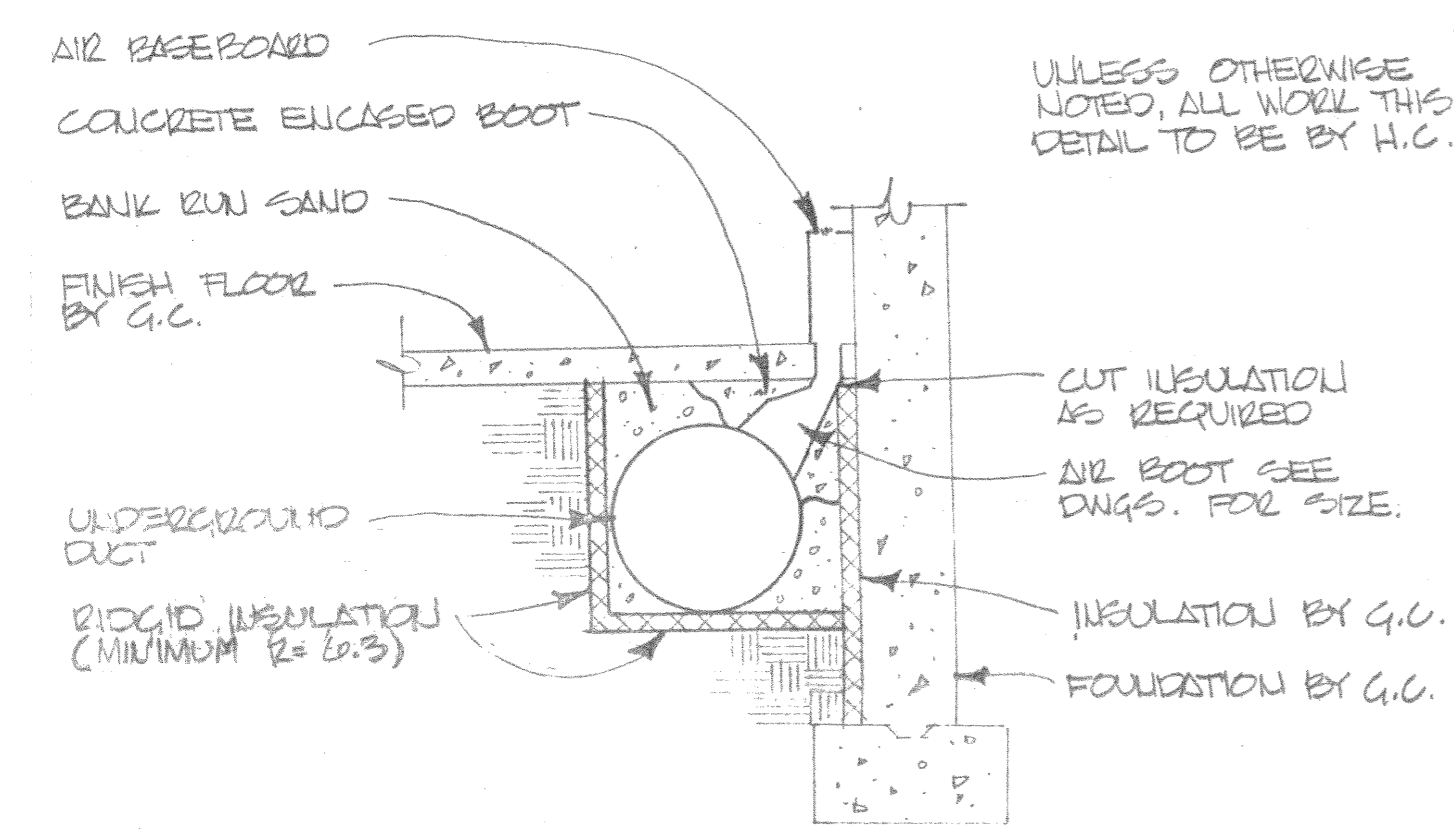
FURNACE SCHEDULE						
ITEM	F-1	F-2	F-3	F-4	F-5	
	MFG. MODEL	TRANE	TRANE	TRANE	TRANE	REZNOR
AIR FLOW (CFM)	1600	1800	1950	1800	3000	
EXT. STATIC PRESS.	.5	.5	.5	.5	.3	
MOTOR HP	1/3	1/2	1/2	1/2	1 1/2	
% O.A.	10%	15%	15%	15%	50%	
ELECT. SERVICE	115/1φ	115/1φ	115/1φ	115/1φ	208/3φ	
AIR IN	61°	57°	57°	57°	25°	
AIR OUT	89.5°	85°	83°	84°	70°	
BURDER INPUT (MEH)	135.0	140.0	140.0	140.0	350.0	
GAS PRESS.	8"	8"	8"	8"	8"	
MODEL	EAUB-40C	EAUB-50C	EAUB-50C	EAUB-50C	---	
AIR IN	81.5/67.3	82.3/68.3	82.3/68.2	82.3/68.2	---	
AIR OUT	61/59	61/59	61/59	61/59	---	
LOAD (MEH)	46.0	54.0	54.0	54.0	---	
COOLING NEED (FT ²)	4.74	6.27	6.27	6.27	---	
FACE VELOCITY	337	287	311	287	---	
MODEL	TRAE-40G	TRAE-50G	TRAE-50G	TRAE-50G	---	
REFRIGERANT	R-22	R-22	R-22	R-22	---	
LOAD (MEH)	46.0	54.0	54.0	54.0	---	
AMBIENT TEMP.	95°	95°	95°	95°	---	
ELECT. SERVICE	208/3φ	208/3φ	208/3φ	208/3φ	---	
EEER	7.5	7.5	7.5	7.5	---	

FAN SCHEDULE											
SYM.	SERVICE	CFM	MFR	TOTAL STATIC IN H ₂ O	MOTOR H.P.	DRIVE	MODEL	VIB. ISOLATOR		REMARK	
								TYPE	MIN. STATIC DEFLEC.		
EF-1	Z05, Z06, Z10	960	CARNES	1/4"	1/4"	BELT	ERBA-17				
EF-2	RANGE HOOD	1000	CARNES	1/2"	1/4"	BELT	VOBB-12			VARIABLE SPEED CONTROL	
EF-3	Z10	120	CARNES	1/8"	1/70	DIRECT	EC-17				
EF-4	Z03	120	CARNES	1/8"	1/70	DIRECT	EC-17				
EF-5	104	60	CARNES	1/8"	1/100	DIRECT	EC-15				
EF-6	105	60	CARNES	1/8"	1/100	DIRECT	EC-15				
EF-7	111	120	CARNES	1/8"	1/70	DIRECT	EC-17				
EF-8	PURGE 115	1500	CARNES	1/4"	1/2	BELT	ERBA-19				
EF-9	NORM. 115	1500	CARNES	1/4"	1/2	BELT	ERBA-19				

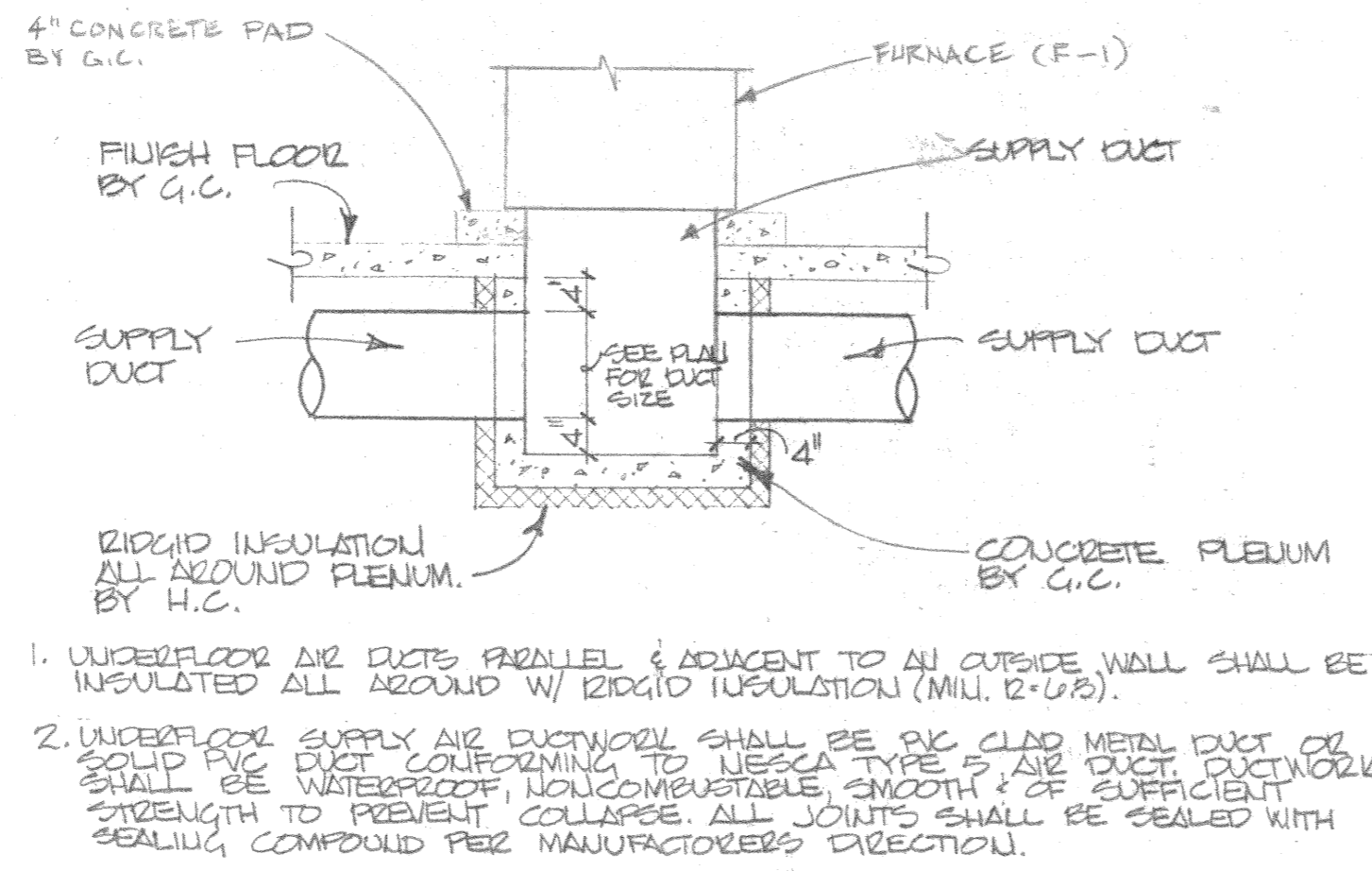
GAS FIRED UNIT HEATER SCHEDULE										
SYMBOL	MFR	MODEL #	AIR FLOW	MOTOR HP	ELECT. SER.	AIR IN	AIR OUT	BURDER INPUT (MEH)	GAS PRESS.	REMARKS
UH-1	REZNOR	XL-75	850	1/40	115/1φ	---	---	75	8"	---
UH-2	REZNOR	XL-75	850	1/40	115/1φ	---	---	75	8"	---
UH-3	REZNOR	XL-45	600	1/50	115/1φ	---	---	45	8"	---
UH-4	REZNOR	XL-30	500	1/50	115/1φ	---	---	30	8"	---



KITCHEN HOOD DETAIL
SCALE: 1/2" = 1'-0"

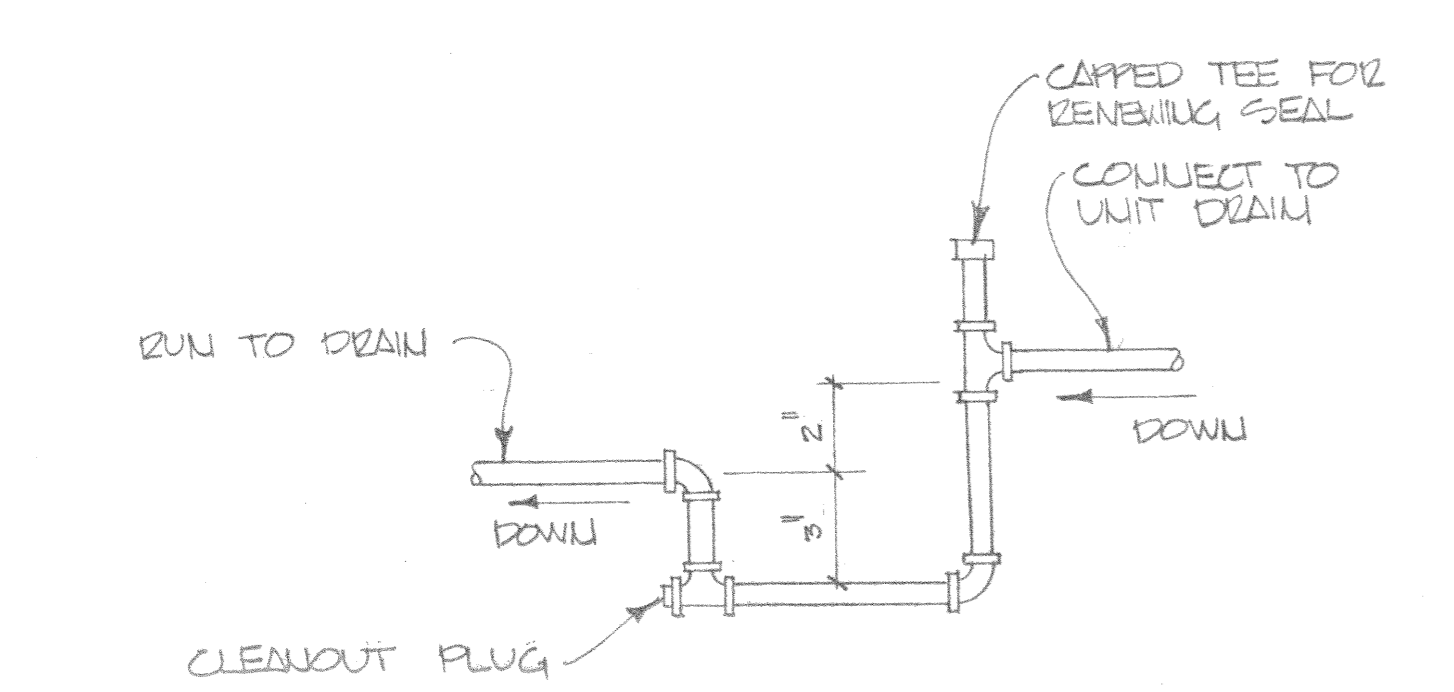


UNDERGROUND DUCT DETAIL

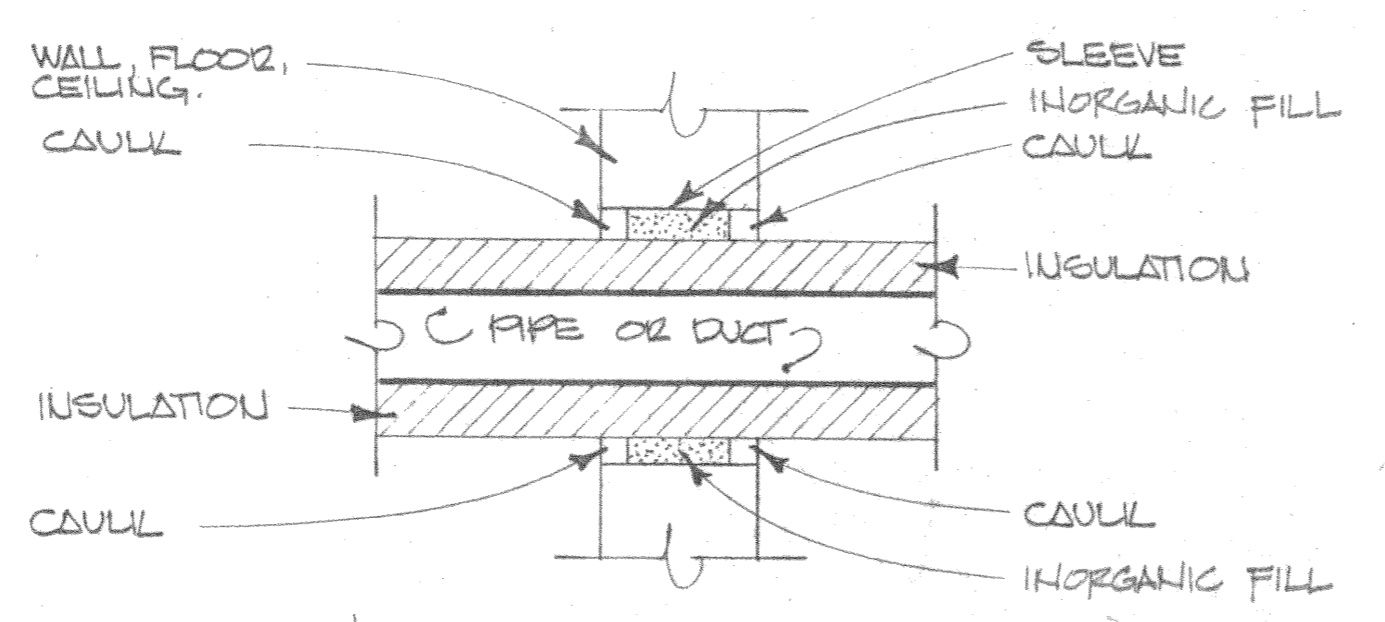


UNDERFLOOR PLENUM DETAIL

- ABBREVIATIONS**
- BB BASEBOARD
 - BTU BRITISH THERMAL UNIT
 - CD CEILING DIFFUSER
 - CFM CUBIC FEET PER MINUTE
 - COO ROOF CUT OFF
 - CG ROOF GRILLE
 - EC ELECTRICAL CONTRACTOR
 - EG EXHAUST GRILLE
 - EF EXHAUST REGISTER
 - EP EXHAUST FAN
 - FA FREE AREA
 - GC GENERAL CONTRACTOR
 - HC HEATING CONTRACTOR
 - MEH 1000 BRITISH THERMAL UNITS
 - OA OUTSIDE AIR
 - PC PLUMBING CONTRACTOR
 - RG RETURN GRILLE
 - RZ RETURN REGISTER
 - SA SUPPLY AIR
 - SR SUPPLY REGISTER
 - TR TURNER GRILLE

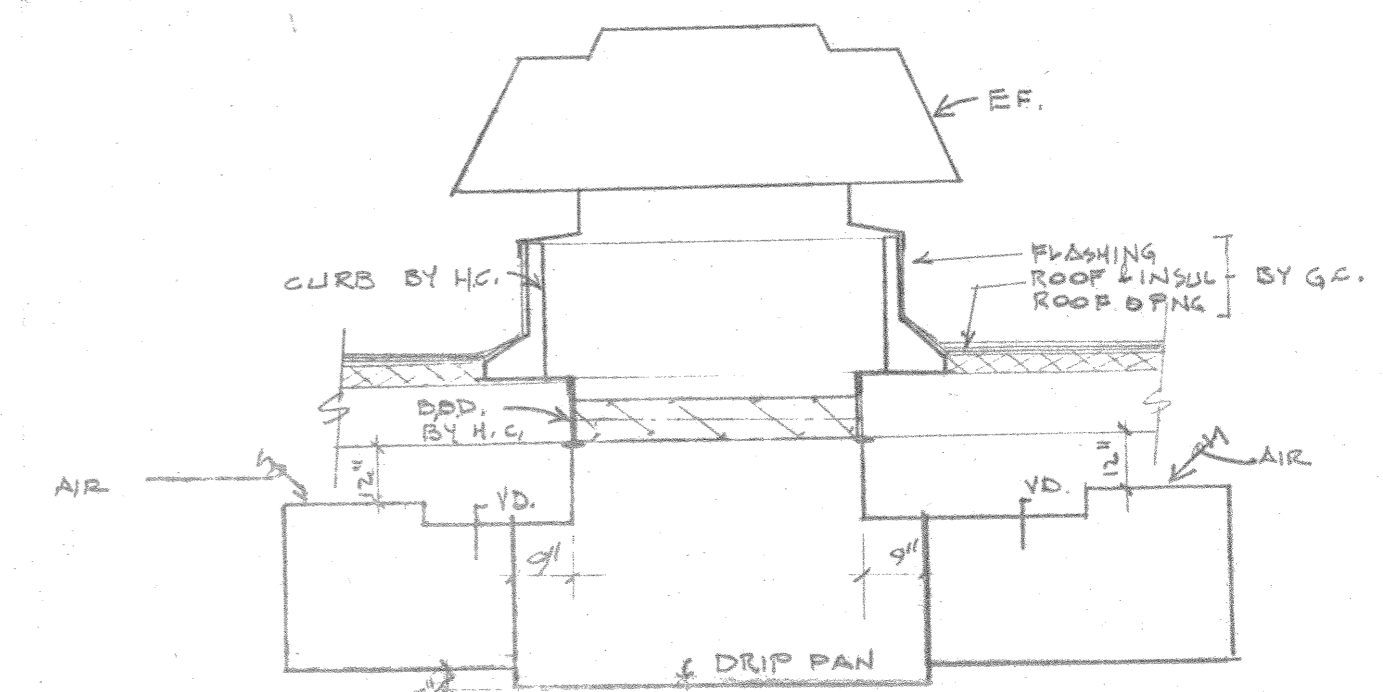


LOOP SEAL FOR COOLING COIL CONDENSATE DRAIN



PIPE OR DUCT SLEEVE

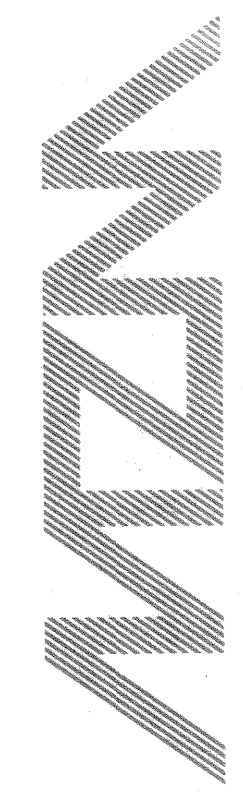
- SYMBOLS**
- SPLITTER DAMPER
 - AUTOMATIC DAMPER
 - VOLUME DAMPER
 - TURNING VANES
 - FLEXIBLE DUCT CONNECTION
 - FIRE DAMPER - HORIZ.
 - FIRE DAMPER - VERT.
 - THERMOSTAT - ELECT.
 - HUMIDISTAT
 - DRAIN PIPE
 - GAS PIPE
 - GAS COIL



ROOF EXHAUST FAN #1

Project Number: 8222
Date: 6/16/82
Drawing Number: 53703

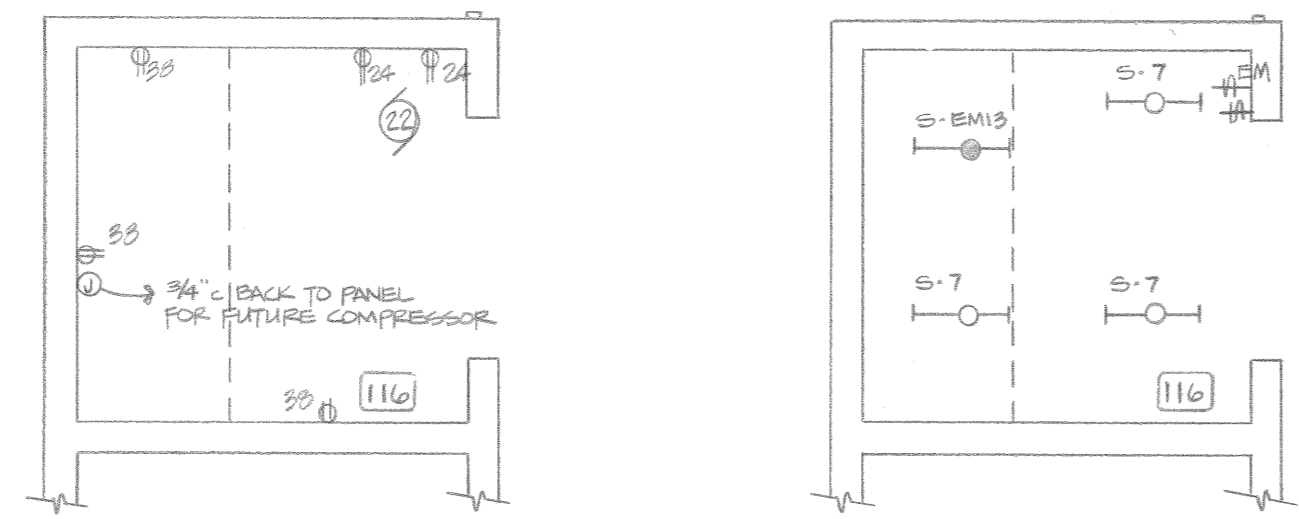
Martinsons / Zeck / Meyer
Planning / Architecture Engineering
625 West Washington Avenue
Madison, Wisconsin 53703



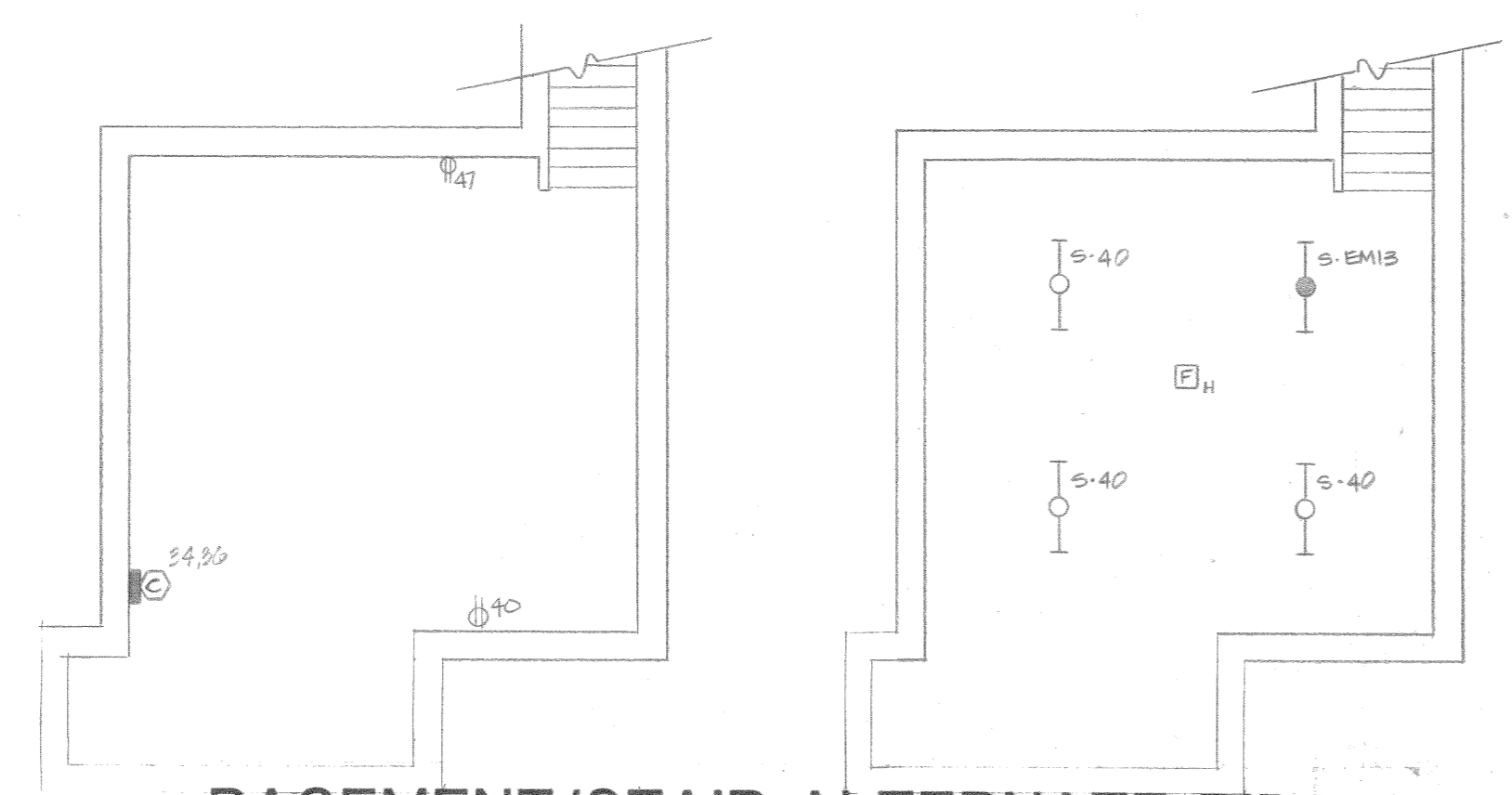
ARNOLD & DISHERDAN, INC.
CONSULTING ENGINEERS
196 FORWARD DRIVE
MADISON, WISCONSIN 53711
JOB NO. 82-051-H
DATE: 6-16-82

FIRE STATION NO. 4
MADISON WI
CITY OF MADISON FIRE DEPARTMENT

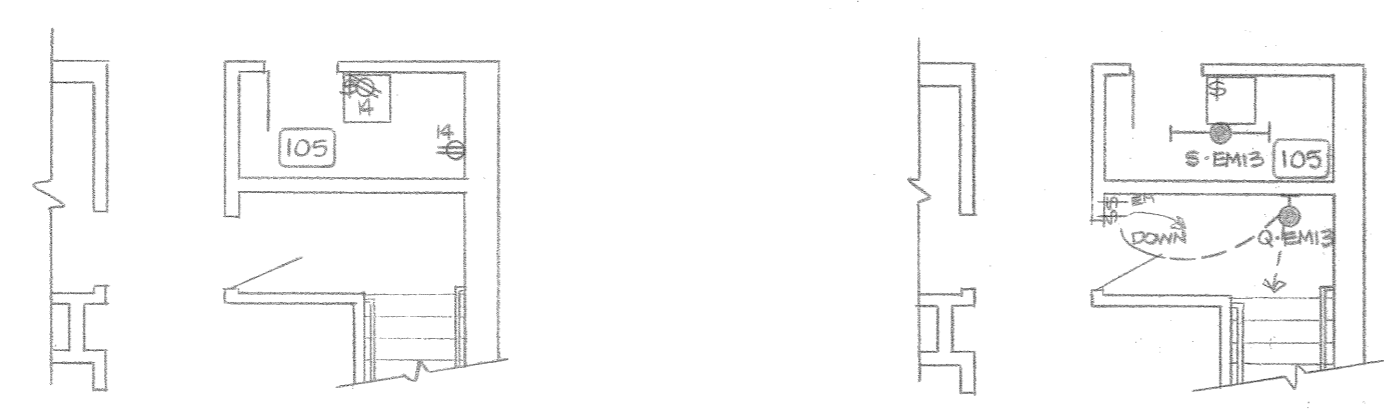
H2



ROOM 116/CLASSROOM ALTERNATE BID #2

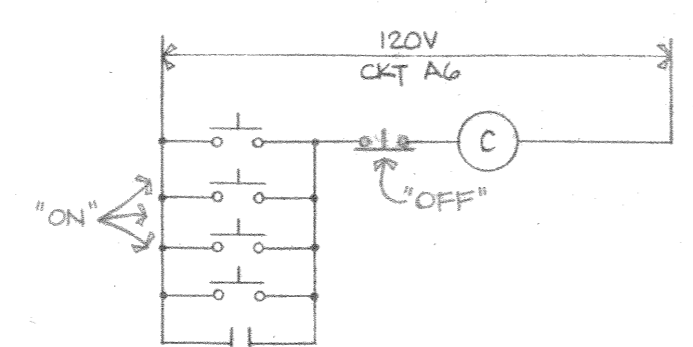


BASEMENT/STAIR ALTERNATE BID #1



BASEMENT/STAIR ALTERNATE BID #1

Apparatus Light Switch 'ON' Assembly
 1. Button and contact block - red mushroom button with a n.o. contact block. Square D Class 9001 type KR4RH5 or approved equal.
 2. Stainless steel flush plate - Square D Class 9001 type K25 with Class 9001 type KN899R legend plate engraved as follows: "LIGHT".
 Note: Assembly shall mount on a 2 1/2" deep switch box.

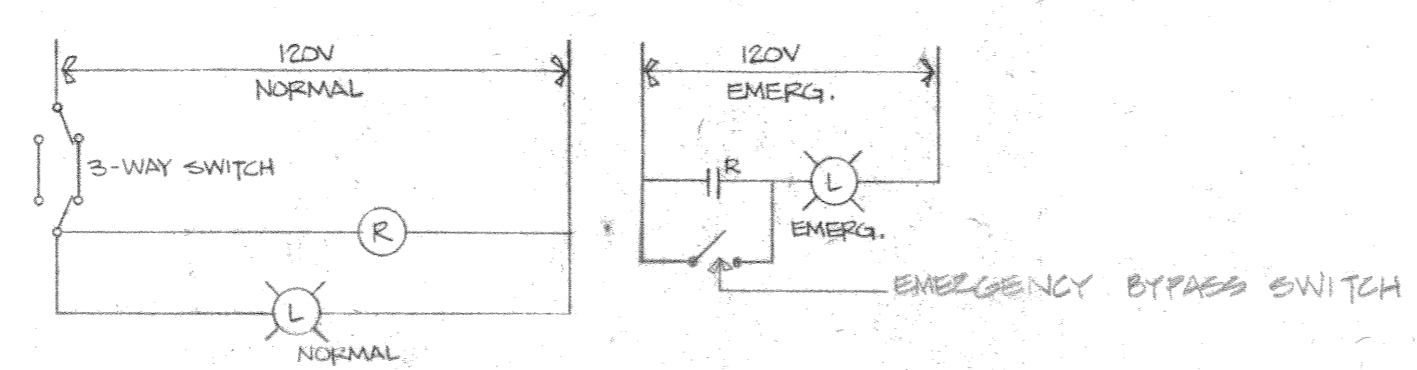


APPARATUS ROOM LIGHTING ONE LINE

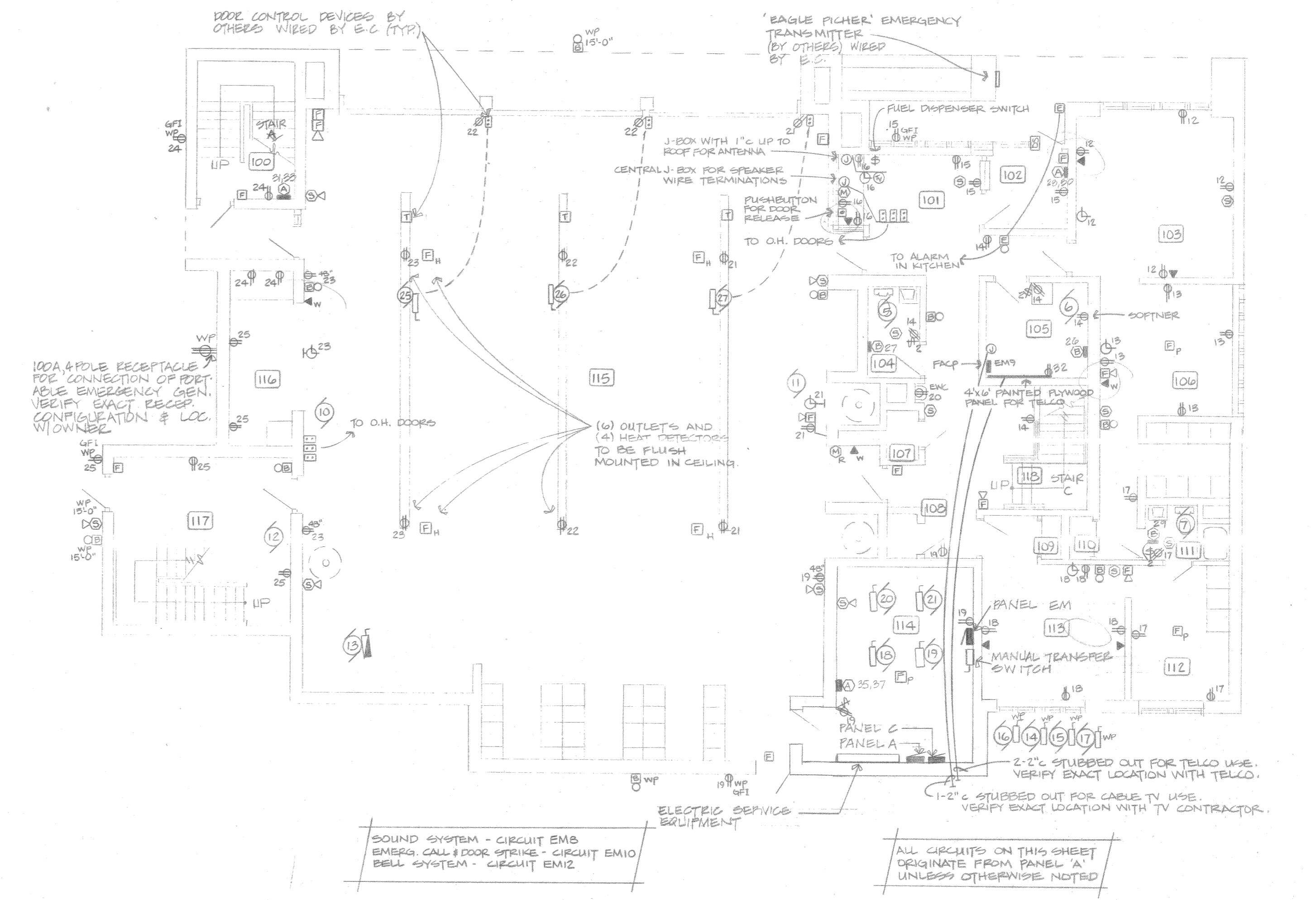
Apparatus Light Switch 'OFF' Assembly
 1. Button and contact block - black pushbutton with a n.c. contact block Square D Class 9001 type KR1BH6 or approved equal.
 2. Stainless steel flush plate - Square D Class 9001 type K25 with Class 9001 type KN899R legend plate engraved as follows: "LIGHT".
 Note: Assembly shall mount on a 2 1/2" deep switch box.

⊙ CONTACTOR--20 amp, 120 volt, 4 pole, electrically held lighting contactor, with 4 normally open contacts, 120 volt control voltage, square D, class 8903, cat. No. LG40 in a NEMA 1 enclosure.

⊕ RELAY--general purpose relay with one normally open and one normally closed contact, 30 amp, 240 volt, control voltage 120, square D, class 8501, type C014 or approved equal in a NEMA 1 enclosure.

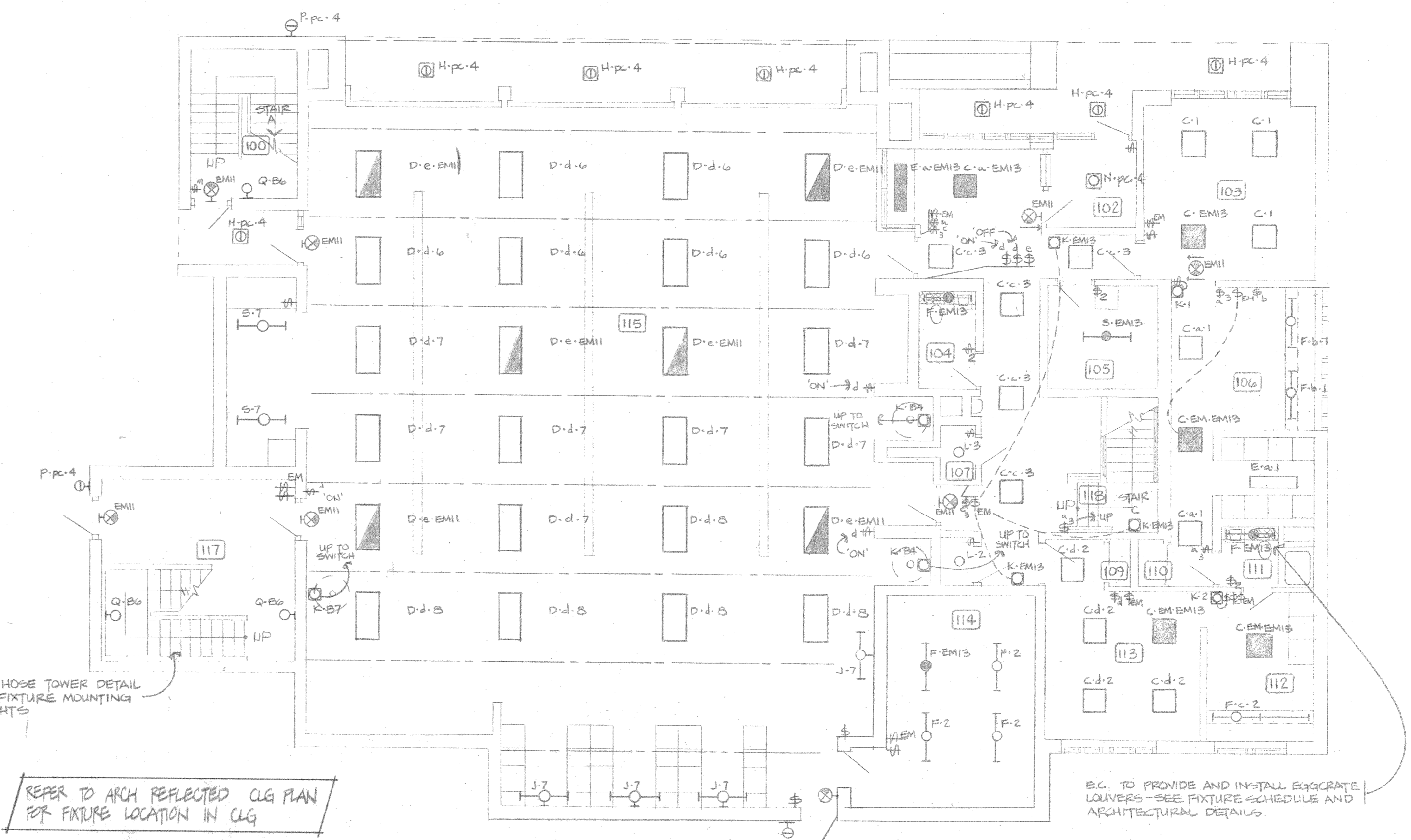


TYPICAL EMERG. LIGHTING SWITCHING DIAGRAM

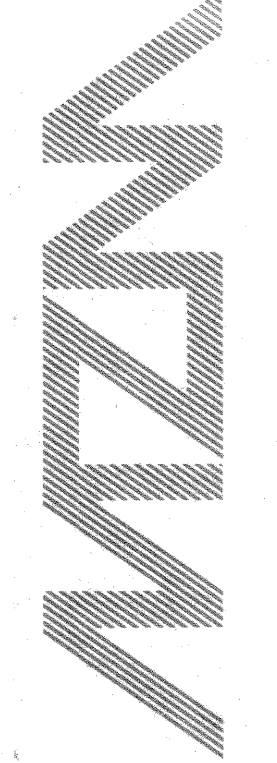


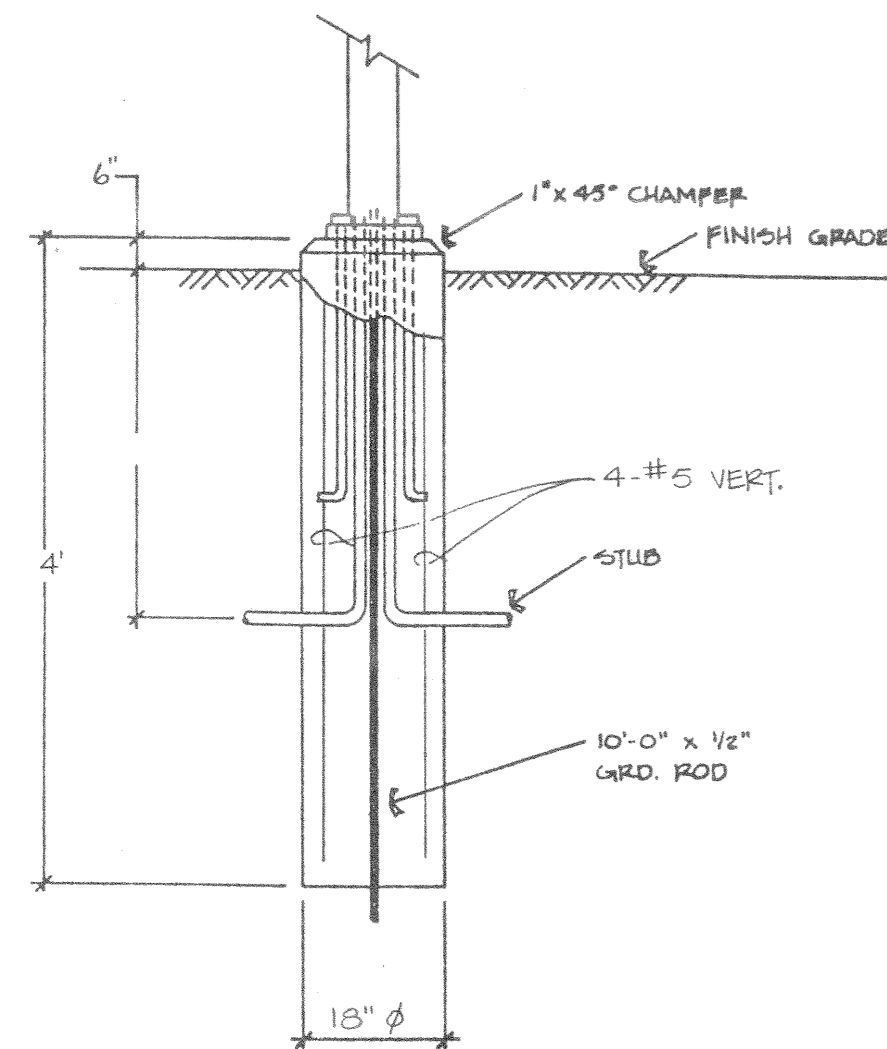
SOUND SYSTEM - CIRCUIT EM8
 EMERG. CALL & DOOR STRIKE - CIRCUIT EM10
 BELL SYSTEM - CIRCUIT EM2

ALL CIRCUITS ON THIS SHEET
 ORIGINATE FROM PANEL 'A'
 UNLESS OTHERWISE NOTED

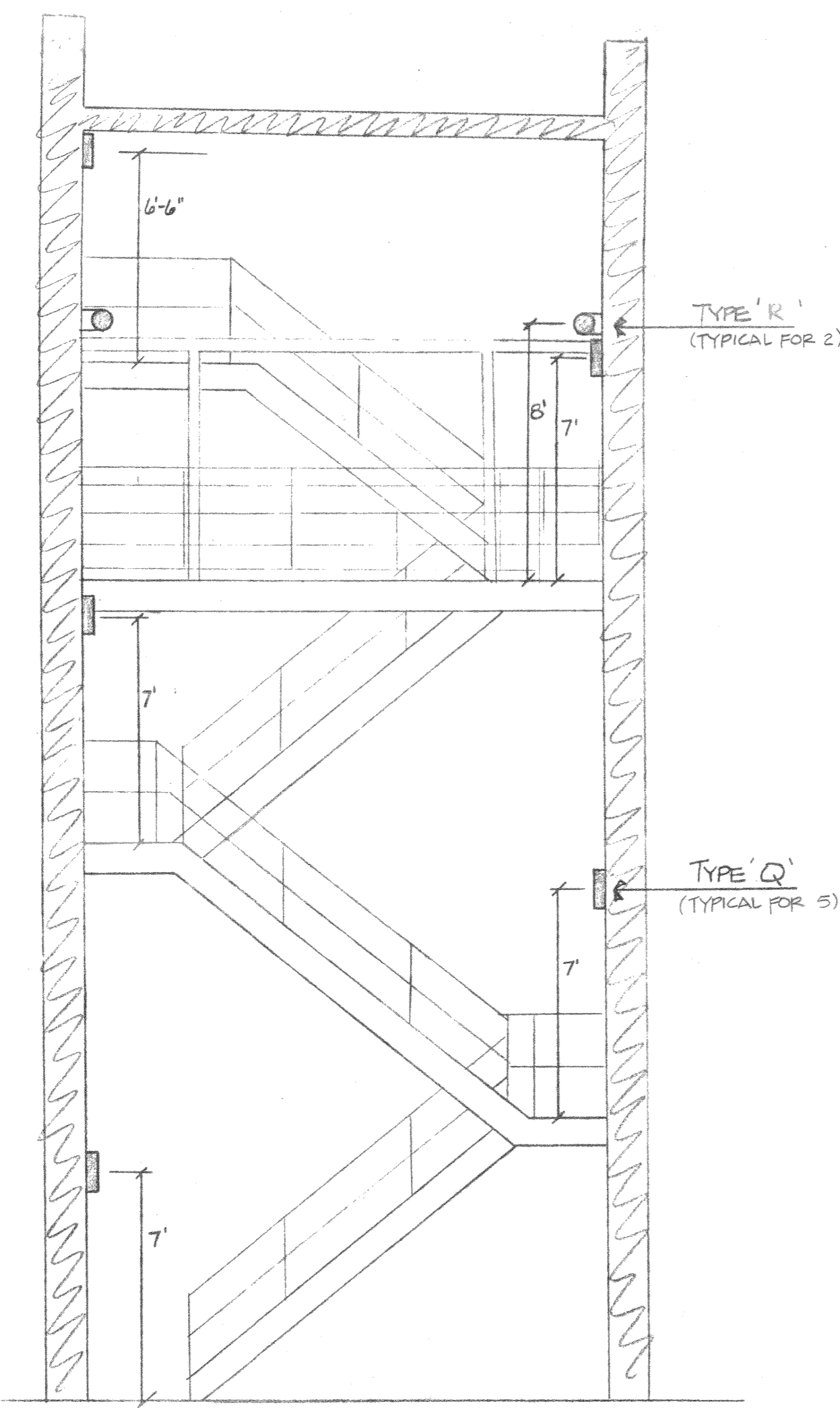


FIRST FLOOR POWER & LIGHTING





POLE BASE DETAIL
N.T.S.



HOSE TOWER STAIR DETAIL
1/4" = 1'-0"

ELECTRIC HEATER SCHEDULE							
NO	TYPE OF HEATER	BTU	WATT	VOLT	PH	AMP	REMARKS
A	Chromalox	10,240	3000	208	1	14.5	Forced Air Wall Htr
B	Chromalox	2,560	750	120	1	6.2	Forced Air Wall Htr
C	Chromalox	6,824	2000	208	1	10.0	Forced Air Wall Htr

PN'L NO.	SERVICE	MAINS						BREAKERS						MFG. CAT. NO.	CAB. TYPE	LOC.	REMARKS
		BUS	BRKR	1 POLE		2 POLE		3 POLE		CAT. NO.	CAB. TYPE	LOC.					
				AMP	QTY	AMP	QTY	AMP	QTY								
A	120/208V 3Ø-4W	MLO 225		20	31	15	1						NQ0B-42-4L	SURF	114		
B	120/208V 3Ø-4W	MLO 225		20	31								NQ0B-36-4L	SURF	210		
C	120/208V 3Ø-4W	MLO 225		20	9	15	1						NQ0B-36-4L	SURF	114		
						45	1										
						50	3										
EM	120/208V 3Ø-4W	MLO 100		20	19								NQ0B-30-4L	SURF	114		
MOP	120/208V 3Ø-4W	MLO 600				100	1						HCN-1436-6	SURF	114		
						225	3										

FIXTURE SCHEDULE							
No.	MANUF.	CAT. No.	LAMPS		MTG.	CEIL. TYPE	DESCRIPTION
			No.	ORD. No.			
A	Litecontrol	P1661 RS/EBKT	2	F40LW/RS/WM11	Surf	-	COLOR BY ARCHITECT 4' Corridor - End mtd.
B	HABITAT	WR-3-03-RBD	3	F30T12/CW/RS	Surf	-	16' Corridor - Wall mtd.
C	Westinghouse	SF25G2U22TOPA	2	F20CW/U/6	Rec.	Grid	2 x 2 Troffer
D	Westinghouse	SF25G3H24TOPA	3	F40LW/RS/WM11	Rec.	Grid	2 x 4 Troffer
E	Westinghouse	SF25G2414TOPA	2	F40LW/RS/WM11	Rec.	Grid	1 x 4 Troffer
* F	Westinghouse	SP240R	2	F40LW/RS/WM11	Surf	-	4' Strip
H	Halo	M1461	1	LU100/D	Rec.	Gyp	8" Round Exterior Downlight
J	Moldcast	A-925-11D	2	F40LW/RS/WM11	Wall	-	4' Wall Bracket
K	Halo	H2520	2	25A	Rec.	-	25W Nite Lite Mt. at 18"
L	P & S	44	1	100A	Surf	Gyp	100W Porc. Socket
M	WESTINGHOUSE	EGL240RP	2	F40LW/RS/WM11	Surf	-	OVER-STOVE ENCLOSED & GASKETED
N	Halo	H7-410	1	150W R40	Rec.	Gyp	Interior Downlight
P	Halo	M1372	1	LU70/D	Surf	-	Exterior wall bracket color by architect
Q	Halo	H2553	1	FC8T9/CW FC12T9/CW	Surf	-	14" Round Stair Lt.
R	PARAMOUNT	14-423	2	F40LW/RS/WM11	WALL	-	4' ENCLOSED STRIP
S	Westinghouse	WE240R	2	F40LW/RS/WM11	Surf	-	4' Wraparound
T	Altko	213-RSW	2	F13T5/CW	Surf	-	3' Undercounter
U	Moldcast	A3110HA-45122-12-BZ-ASY	1	LU150/55	Pole	-	10' Parking Lot Light

* Fixtures which are to be coordinated with Architectural details as called out on the drawings shall have 1/2 x 1/2 x 1/2 white acrylic egg crate louver with 45° shielding furnished and installed by Electrical Contractor. Louver shall be manufactured by American Luminous Ceiling or equal.

MOTOR & SPECIAL EQUIPMENT SCHEDULE												
NO.	DESCRIPTION	KW	HP	VOLT	PH	CIR NO.	PANEL PROTECT. DEVICE		START. SIZE	EQUIPMENT TO FURNISH	LOC.	REMARKS
							AMP	POLE				
1	EF-1		1/4	120	1	B21	20	1		Man. sw. with pilot by E.C.	206	wire variable speed switch provided by H.C.
2	EF-2		1/4	120	1	B23	20	1		Man Disc.	204	
3	EF-3		1/70	120	1	B21	20	1		-	216	Switch with lights
4	EF-4		1/70	120	1	B23	20	1		-	203	Switch with lights
5	EF-5		1/100	120	1	A14	20	1		-	104	Switch with lights
6	EF-6		1/100	120	1	A1	20	1		-	105	Switch with lights
7	EF-7		1/70	120	1	A1	20	1		-	111	Switch with lights
8	EF-8		1/2	120	1	B26	20	1		Comb. str. disc. w/HOA	Hose	
9	EF-9		1/2	120	1	B26	20	1		Comb. str. disc. w/HOA	Hose	
10	UH-1		1/40	120	1	C18	20	1		Man. disc. at unit	115	
11	UH-2		1/40	120	1	C18	20	1		Man. disc. at unit	115	
12	UH-3		1/50	120	1	C18	20	1		Man. disc. at unit	117	
13	F-5		1/2	230	1	C18	35	2		Comb. str. disc. w/HOA	115	
14	CU-1		51/2	230	1	C18	60	2		WP Disc.	Out	
15	CU-2		51/2	230	1	C18	70	2		WP Disc.	Out	
16	CU-3		51/2	230	1	C18	70	2		WP Disc.	Out	
17	CU-4		51/2	230	1	C18	70	2		WP Disc.	Out	
18	F-1		1/3	120	1	C1	20	1		Man. disc at unit	114	
19	F-2		1/2	120	1	C2	20	1		Man. disc at unit	114	
20	F-3		1/2	120	1	C3	20	1		Man. disc at unit	114	
21	F-4		1/2	120	1	C4	20	1		Man. disc at unit	114	
22	UH-4		1/50	120	1	ABB	20	1		Man. disc at unit	116	(ALTERNATE)
23	Disposal		1/2	120	1	B16	20	1		Duplex Recept.	204	
24	Fuel Dispenser		1/3	120	1	EM16	20	1		DISC SW.	Out	(ALTERNATE)
25	Overhead Door		1/3	120	1	EM2	20	1		DISC SW.	115	
26	Overhead Door		1/3	120	1	EM4	20	1		DISC SW.	115	
27	Overhead Door		1/3	120	1	EM6	20	1		DISC SW.	115	

SYMBOL SCHEDULE

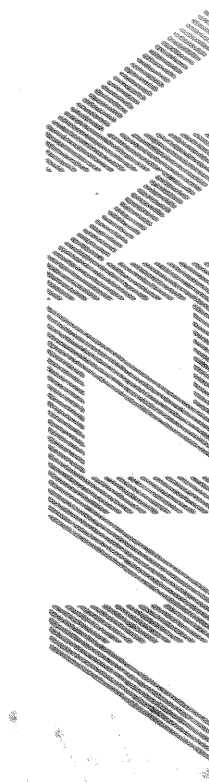
- ⊕ SINGLE POLE SWITCH
- ⊕ THREE WAY SWITCH
- ⊕ SWITCH & RECEPTACLE IN SAME OUTLET BOX
- ☐ PHOTO CELL
- INCANDESCENT FIXTURE, SURFACE, RECESSED, WALL MOUNT
- ⊕ HIGH INTENSITY DIS. FIXTURE, SURFACE, RECESSED, WALL MOUNT
- ⊕ FLUORESCENT FIXTURE, RECESSED, DRAWN TO SCALE
- ⊕ FLUORESCENT FIXTURE, SURFACE OR SUSPENDED, WALL MOUNT
- ⊕ EXIT FIXTURE, SINGLE FACE, DOUBLE FACE, WALL MOUNT, ARROWS AS INDICATED
- UPPER CASE LETTER INDICATES FIX. TYPE, LOWER CASE INDICATES SWITCH, NUMBER INDICATES CIRCUIT
- 1/2" x 1/2" x 1/2" WHITE EGG CRATE LOUVER BY E.C.
- PANELBOARD
- ⊕ CLOCK OUTLET
- ⊕ DISCONNECT SWITCH
- ⊕ FIRE ALARM MANUAL STATION
- ⊕ FIRE DETECTOR - HEAT
- ⊕ FIRE DETECTOR - PHOTO ELECTRIC
- ⊕ FIRE ALARM HORN
- ⊕ ELECTRICAL CONTRACTOR
- ⊕ WEATHER PROOF
- ⊕ ELECTRIC WATER COOLER
- ⊕ SPEAKER, TYPE INDICATED SEE SPEC.
- ⊕ BELL
- ⊕ DUPLEX GROUNDED RECEPTACLE
- ⊕ MOTOR OR SPECIAL OUTLET CONNECTION SEE SCHEDULE
- ⊕ TELEVISION OUTLET
- ⊕ TELEPHONE OUTLET, MOUNT AT 12"
- ⊕ TELEPHONE OUTLET, MOUNT AT 56"
- ⊕ GROUND FAULT RECEPTACLE
- ⊕ EMERGENCY CALL BUTTON
- ⊕ EMERGENCY ALARM BUZZER
- ⊕ JUNCTION BOX
- ⊕ SPEAKER WITH HORN
- ⊕ UP/DOWN DOOR OPERATOR BY OTHERS
- ⊕ DOOR STRIKE
- ⊕ DOOR STRIKE PUSHBUTTON
- ⊕ DESK MICROPHONE BY OTHERS
- ⊕ REMOTE MICROPHONE BY OTHERS
- ⊕ DOOR SWITCH WITH PULLCORD
- ⊕ TWO POLE SWITCH
- SHADED FIXTURE INDICATES EMERGENCY LIGHTING
- ⊕ SWITCH WITH PILOT
- ⊕ COMBINATION STARTER
- ⊕ EMERGENCY LIGHTING SWITCH (INCLUDE RED SINGLE POLE SWITCH)

Reuel R. Rettig

SCHEDULES & DETAILS

Project Number: 2202
Date: 6/16/82
Drawing Number: 82051E

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