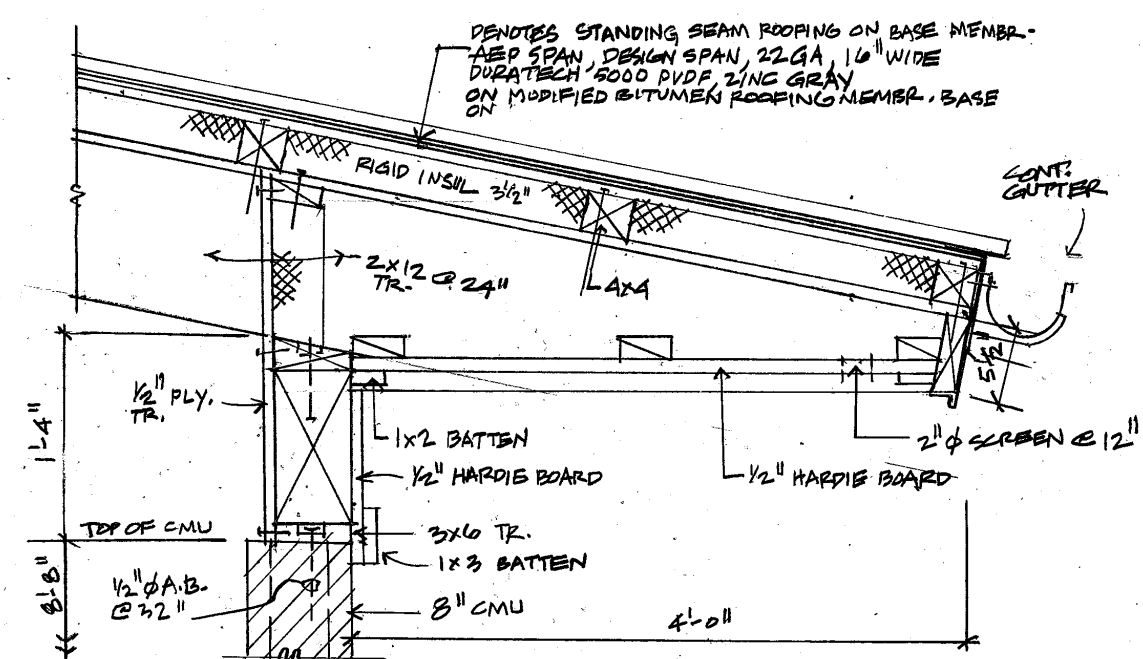
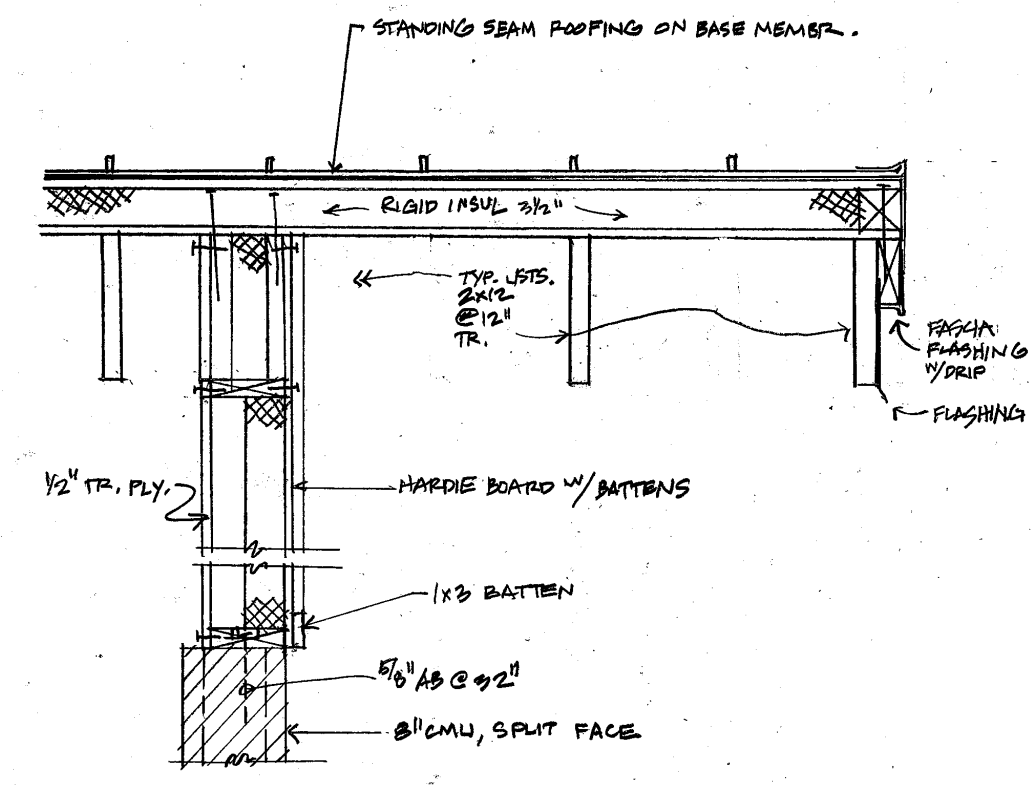


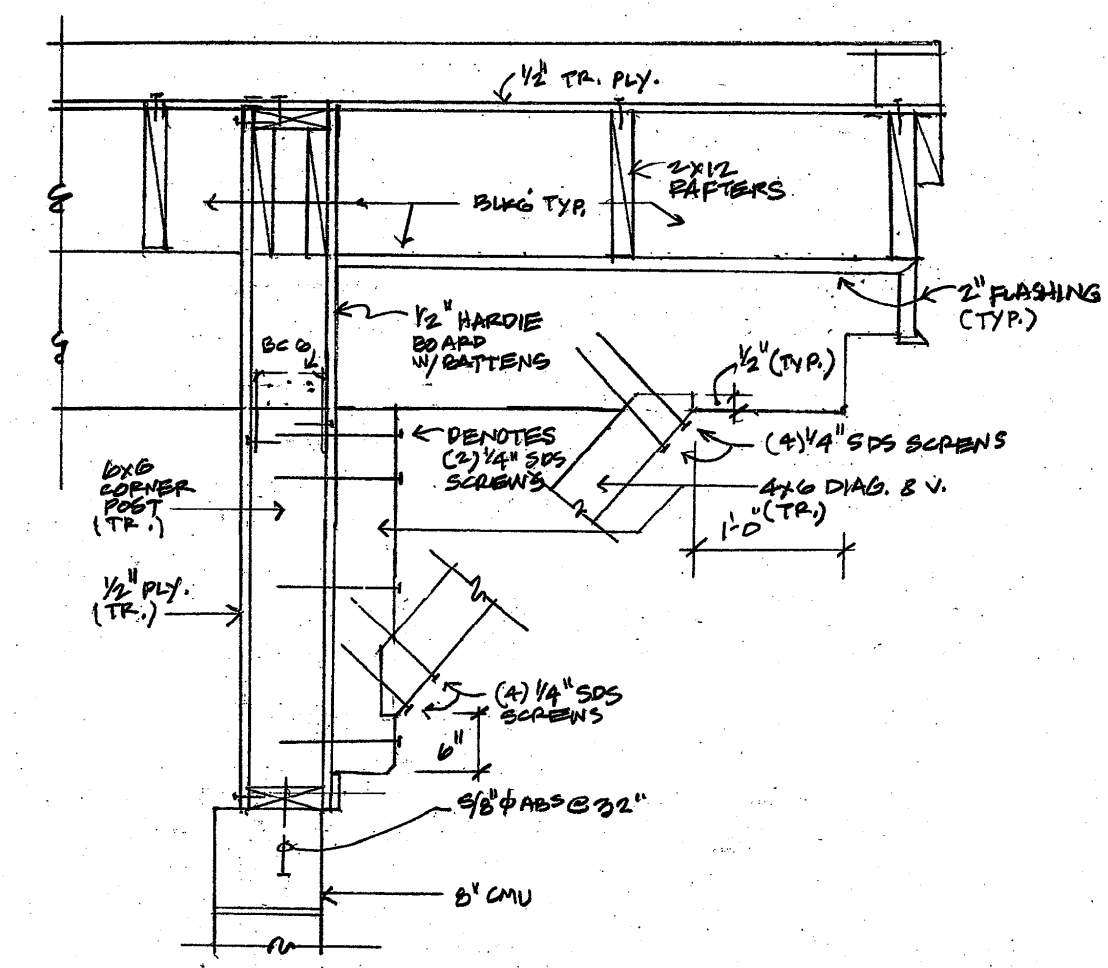
**WR WEST ROOF DETAIL**



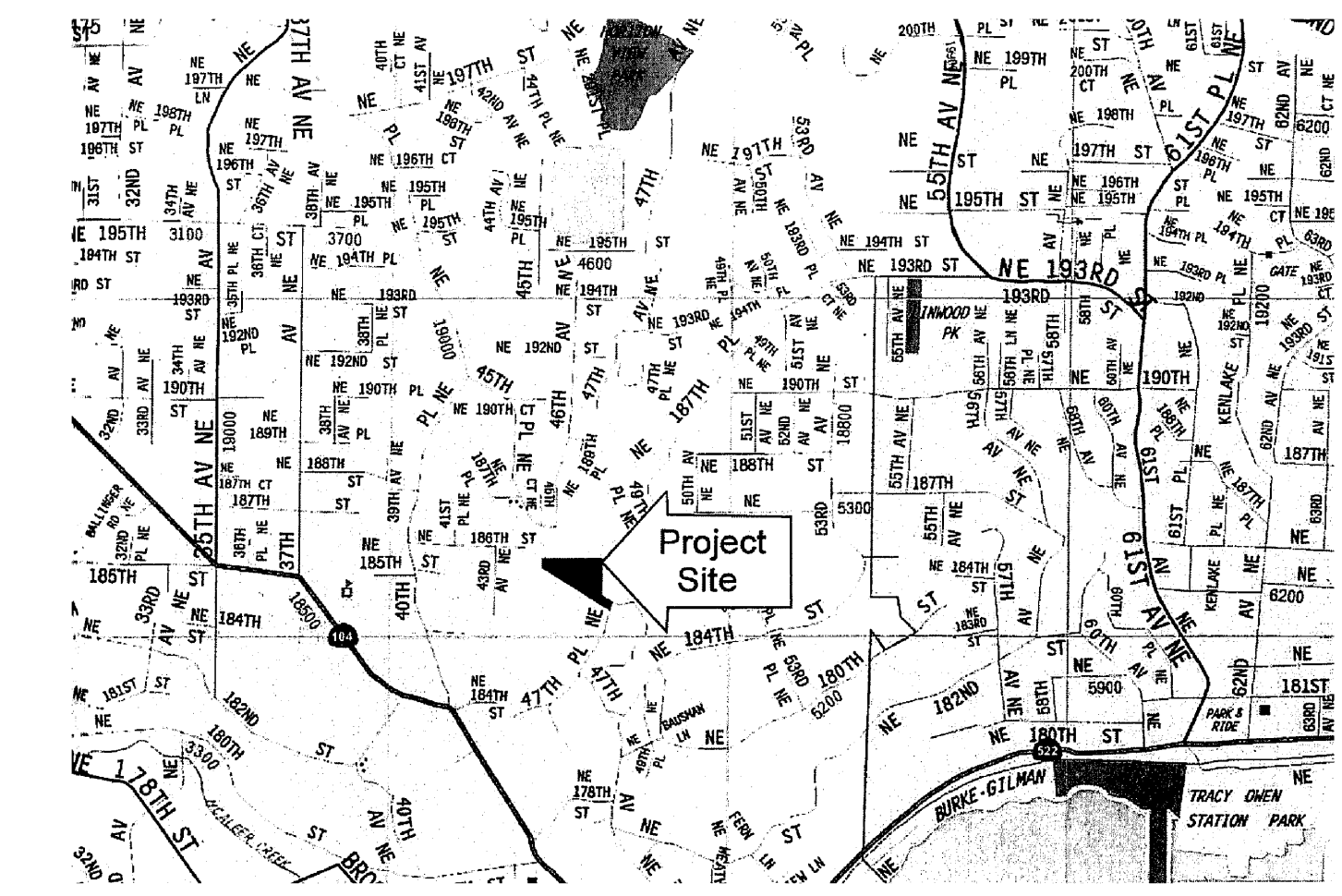
**ER EAST ROOF DETAIL**



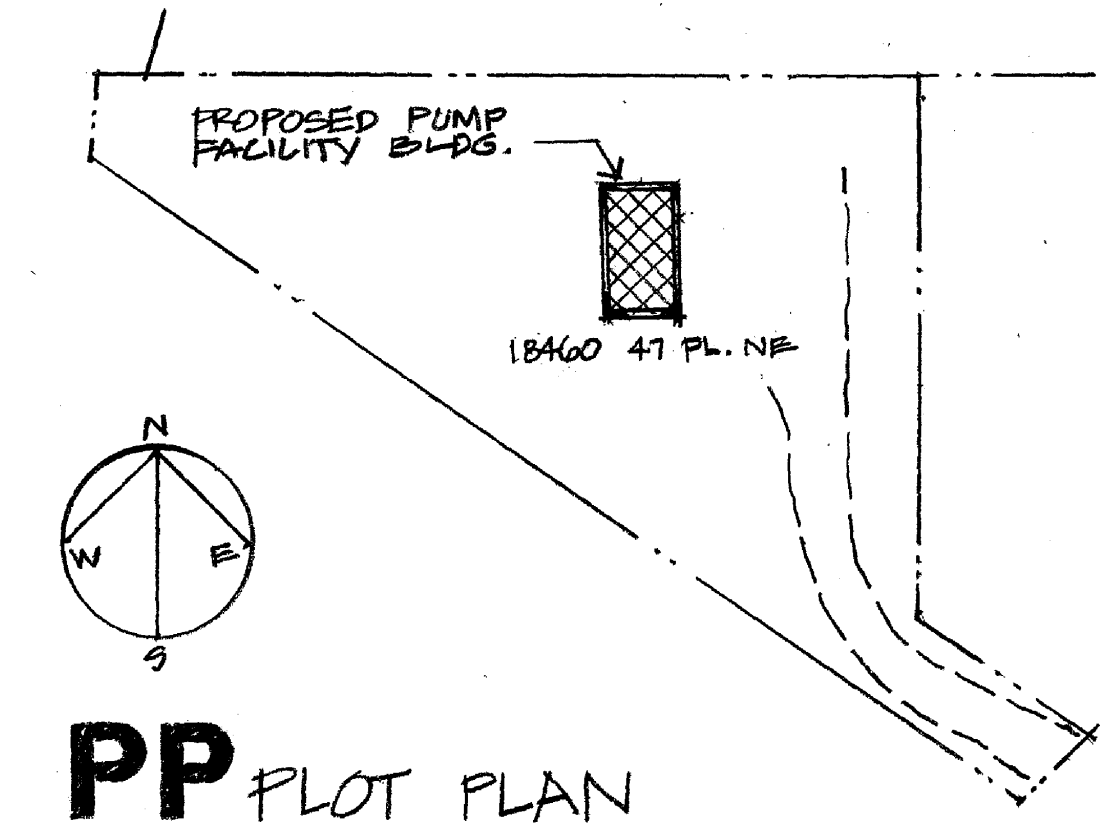
**NSR NORTH & SOUTH ROOF DETAIL**



**BD BRACKET DETAIL**



**PP PLOT PLAN**  
DO NOT SCALE



**PP PLOT PLAN**  
DO NOT SCALE

18460 Legal Description  
 LOT 31, BLOCK 2, REPLAT OF LOTS 1,2,3,4,5,6,8,9,10,11,12, AND 13 BLOCK 2, LAKE FOREST PARK, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 22 OF PLATS, PAGE 25 IN KING COUNTY, WASHINGTON; EXCEPT THAT PORTION OF SAID LOT 31, BLOCK 2, LYING EASTERLY OF A LINE EXTENDING FROM A POINT ON THE NORTHERLY BOUNDARY OF SAID LOT 31 AND 90 FEET WESTERLY FROM THE NORTHEAST CORNER THEREOF, SAID LINE THENCE EXTENDING IN A SOUTHERLY DIRECTION PARALLEL TO THE EASTERLY BOUNDARY OF SAID LOT 31 TO INTERSECTION WITH A LINE RUNNING PARALLEL TO AND 22 FEET FROM THE SOUTHWESTERLY BOUNDARY OF SAID LOT 31; THENCE SOUTHEASTERLY ALONG SAID PARALLEL LINE TO AN INTERSECTION WITH THE CURVED SOUTHEASTERLY BOUNDARY OF LOT 31, BORDERING ON 47TH PLACE NORTHEAST.

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*Peter Gintautas Nalis*

**REVISIONS**

NR	DATE	DESCRIPTION

**McKINNON CREEK PUMP FACILITY BUILDING**

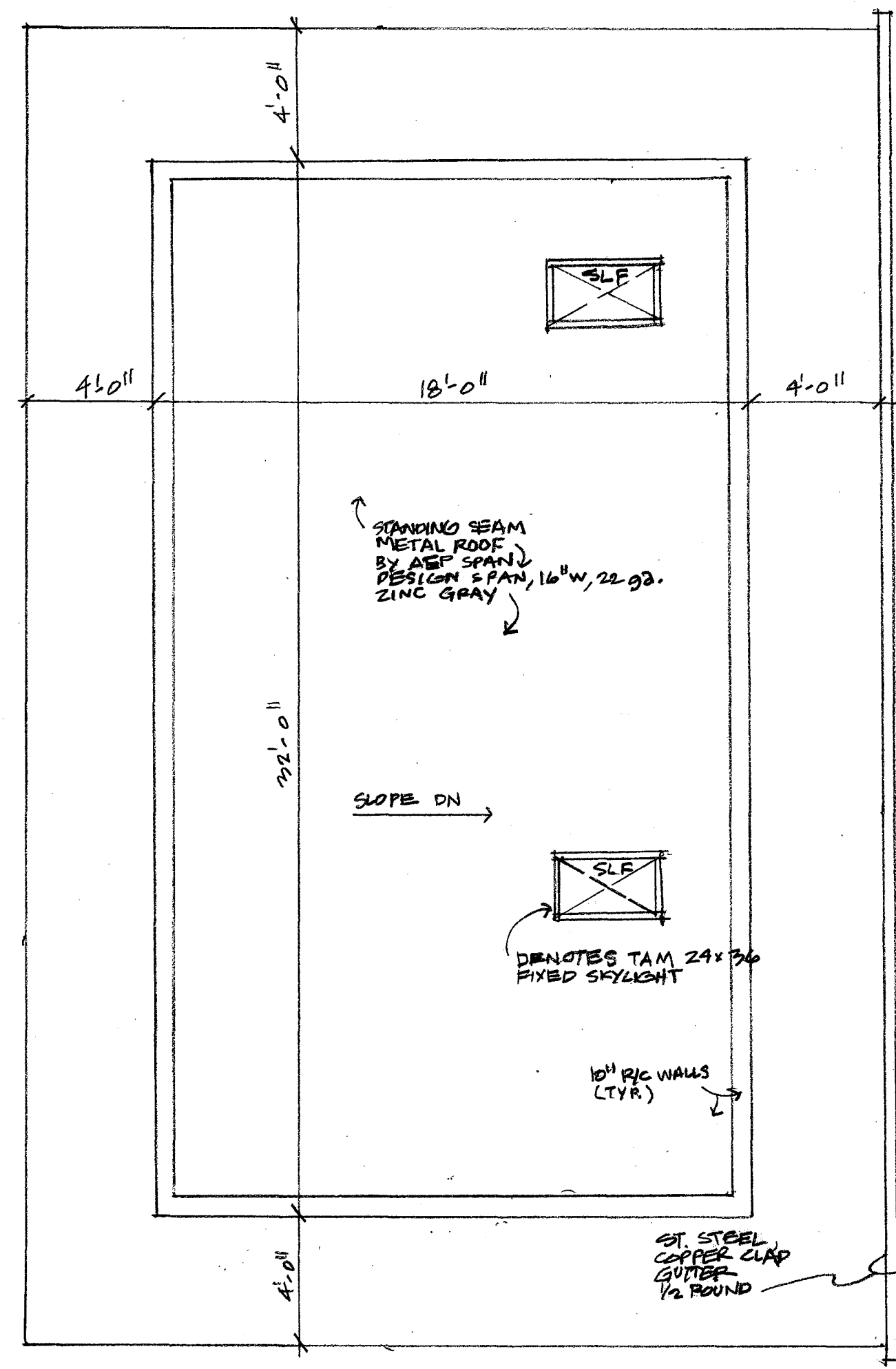
18460 47 PLACE NE  
 LAKE FOREST PARK WA  
 NALIS=AEC  
 4552 51st AVENUE NE  
 SEATTLE, WA 98105  
 TEL: 206-627-7073

**PROPERTY AND SITE DATA**

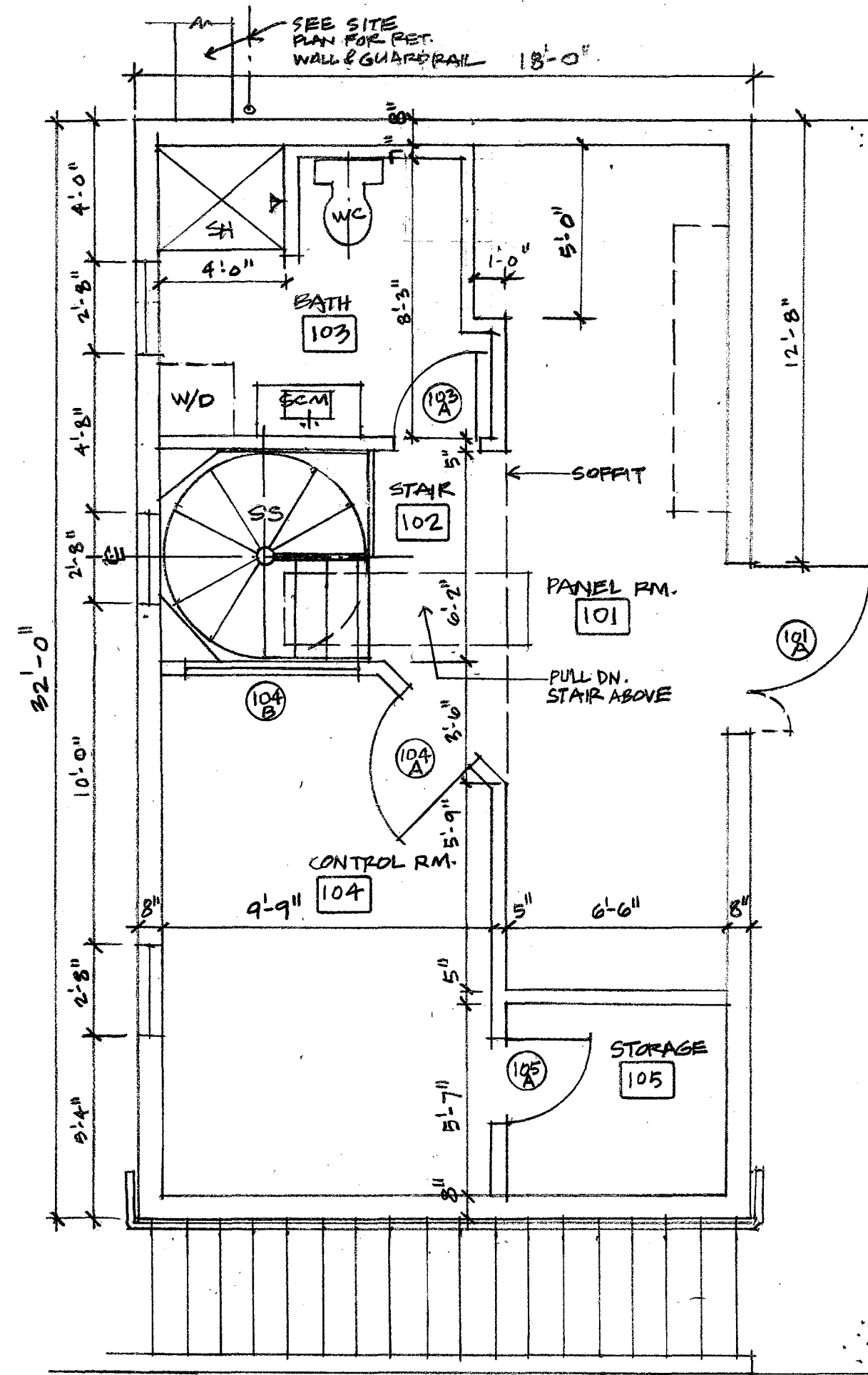
SHEET 18 OF 18

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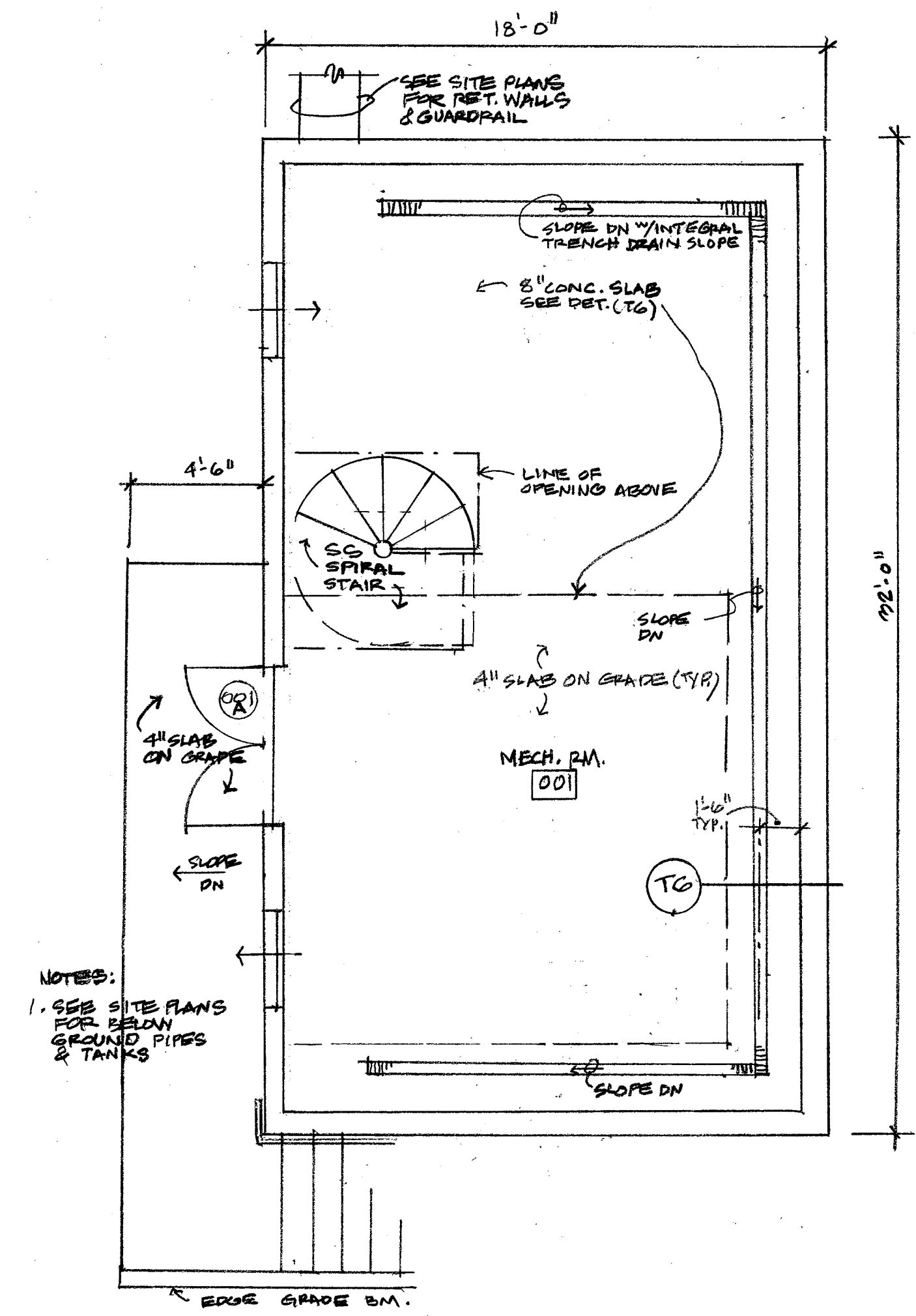
**A1**



**RP** ROOF PLAN  
 1/4" = 1'-0"



**MFP** MAIN FLOOR PLAN  
 1/4" = 1'-0" FIN. FLOOR 0'-0"



**BFP** LOWER FLOOR PLAN  
 1/4" = 1'-0" FIN. FLOOR -12'-0"  
 NOTES:  
 1. SEE SITE PLANS FOR BELOW GROUND PIPES & TANKS

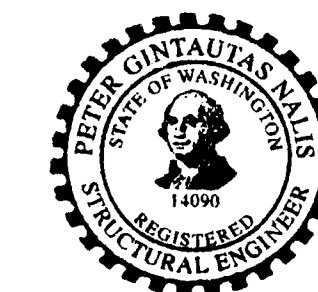


**REVISIONS**

NR	DATE	DESCRIPTION
	12 JAN 2019	ISSUE A

**McKINNON CREEK PUMP FACILITY BUILDING**  
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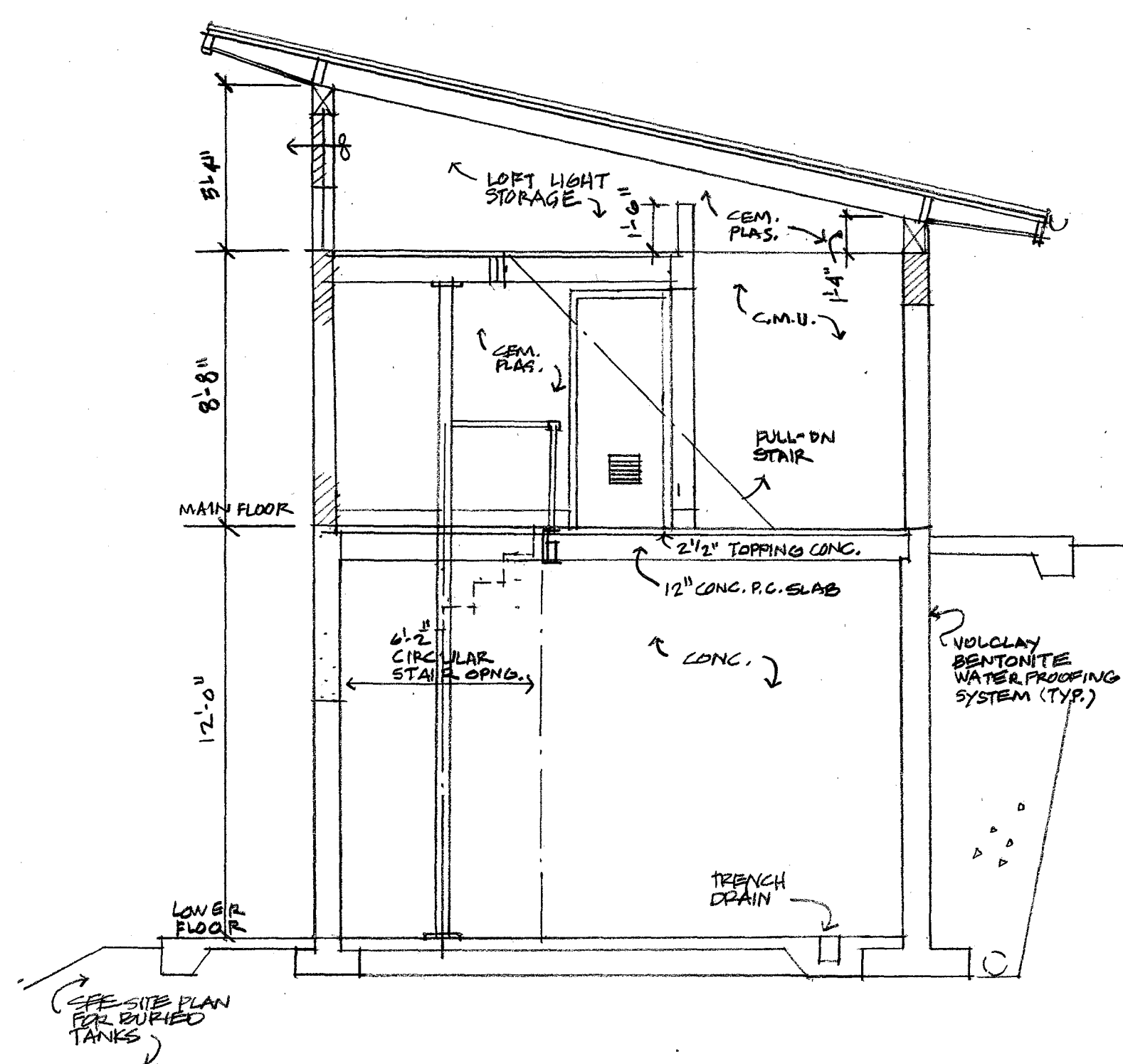
**PLANS**  
 SHEET OF  
 19 OF 28  
 DRAWN BY: CHECKED BY:



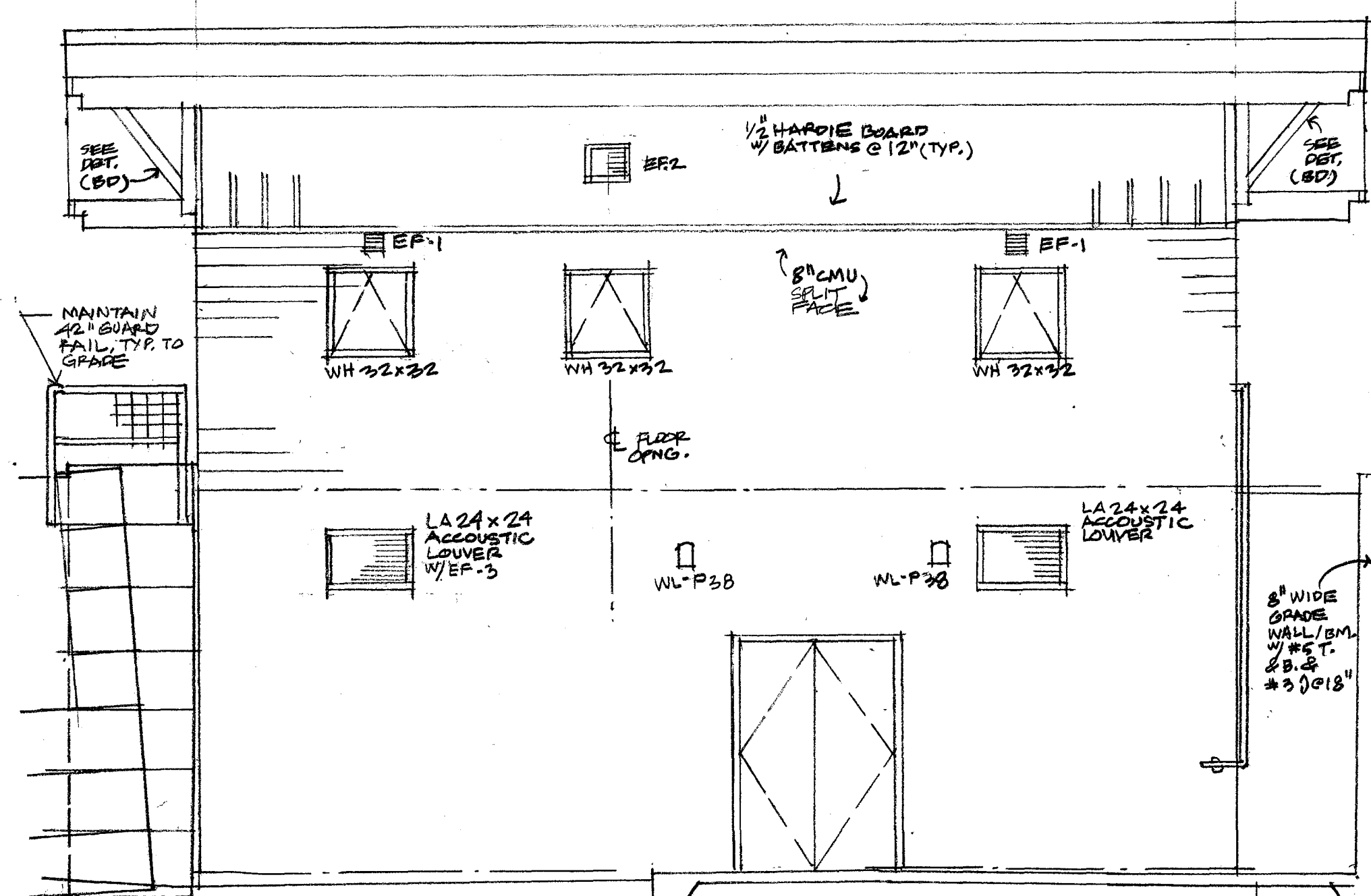
*Peter Gintautas Nalis*

REVISIONS

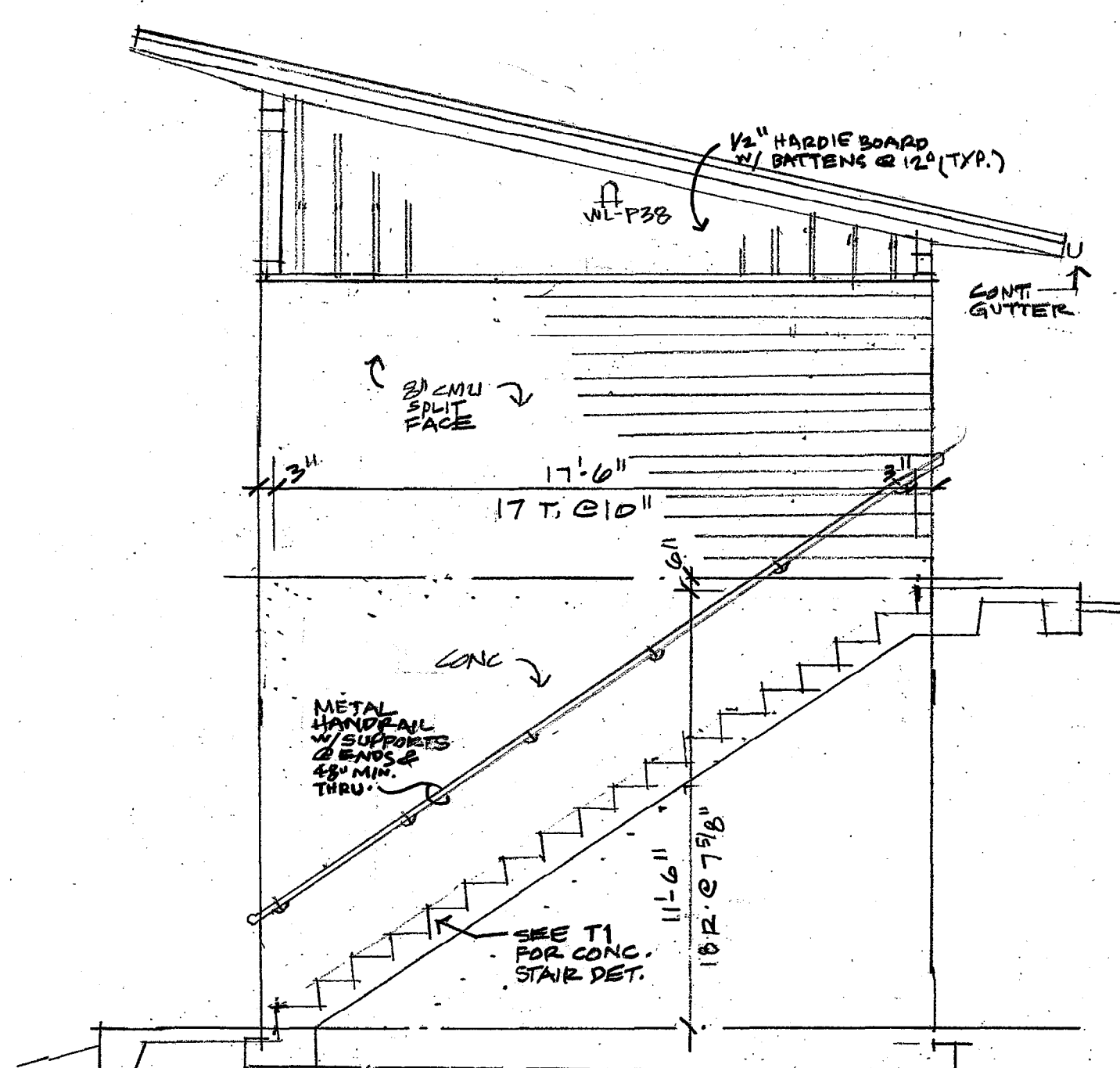
NR	DATE	DESCRIPTION
	12 JAN 2019	ISSUE A



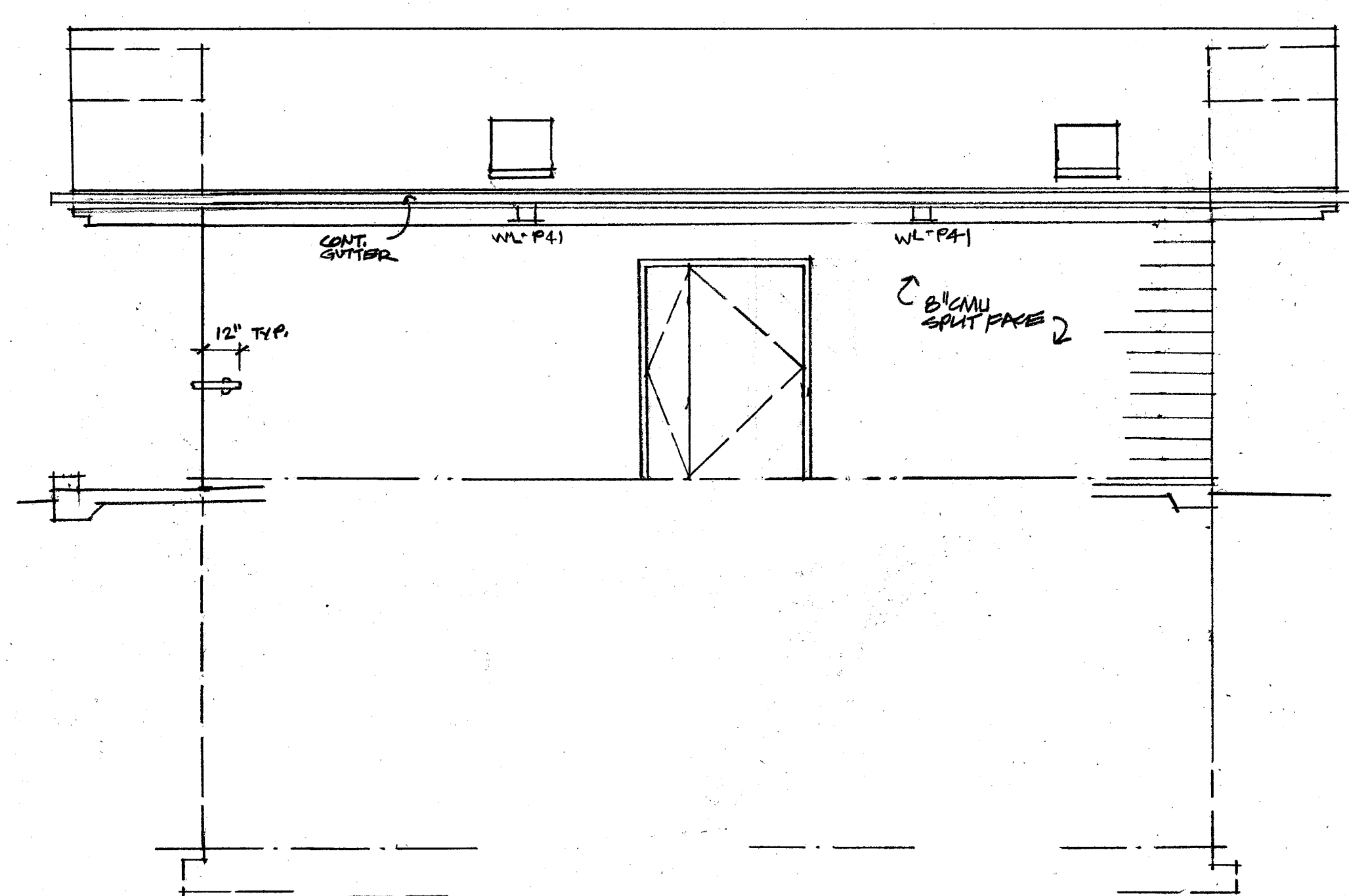
**SN** BUILDING SECTION (LOOKING NORTH)  
1/4" = 1'-0"



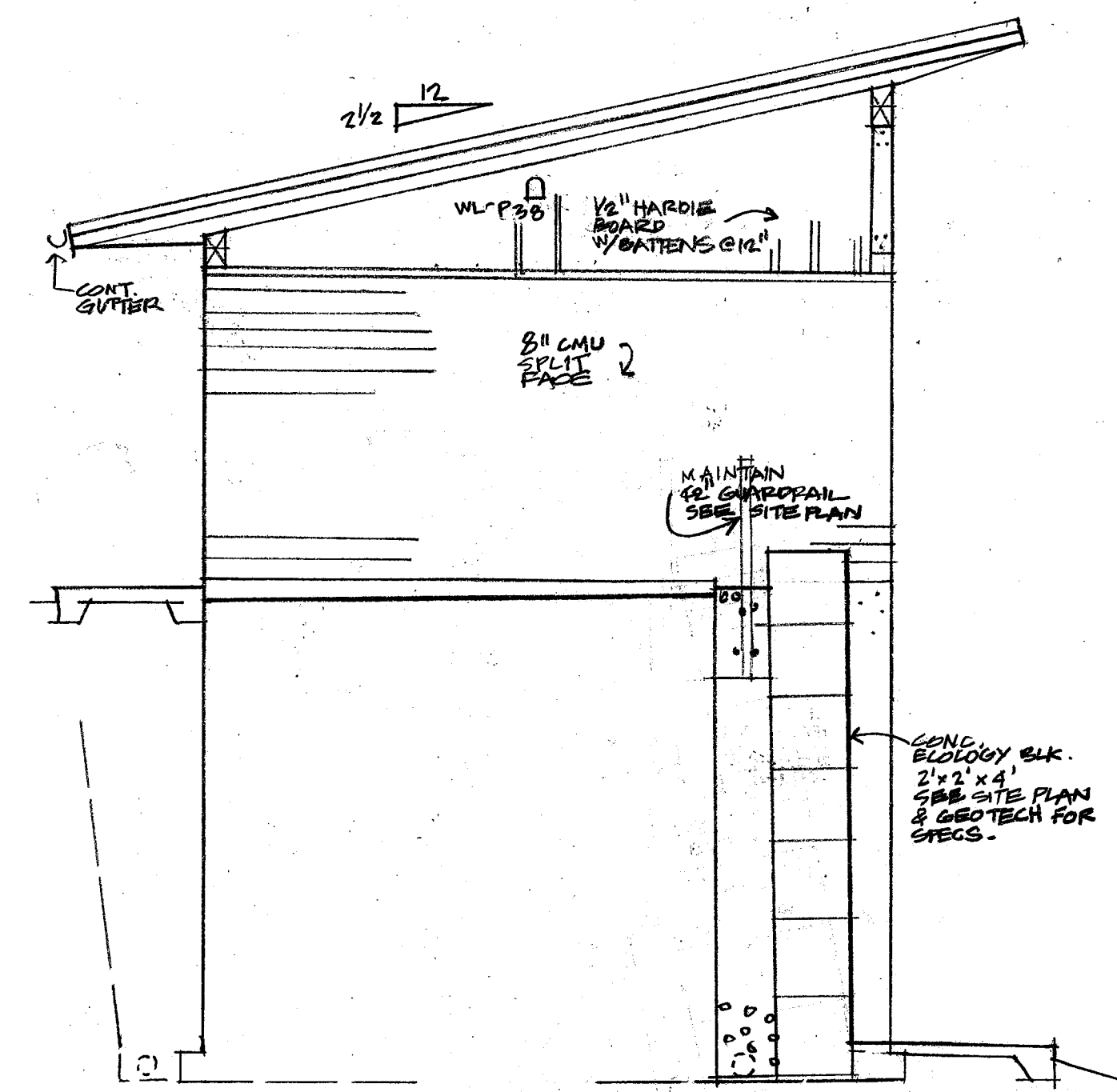
**EW** WEST ELEVATION  
1/4" = 1'-0"



**ES** SOUTH ELEVATION  
1/4" = 1'-0"



**EE** EAST ELEVATION  
1/4" = 1'-0"



**EN** NORTH ELEVATION  
1/4" = 1'-0"

**McKINNON CREEK PUMP FACILITY BUILDING**

18460 47 PLACE NE LAKE FOREST PARK WA

NALIS=AEC 4552 51st AVENUE NE SEATTLE, WA 98105 TEL: 206-527-7073

**BUILDING ELEVATIONS AND SECTIONS**

SHEET	OF
20	28

DRAWN BY: CHECKED BY:

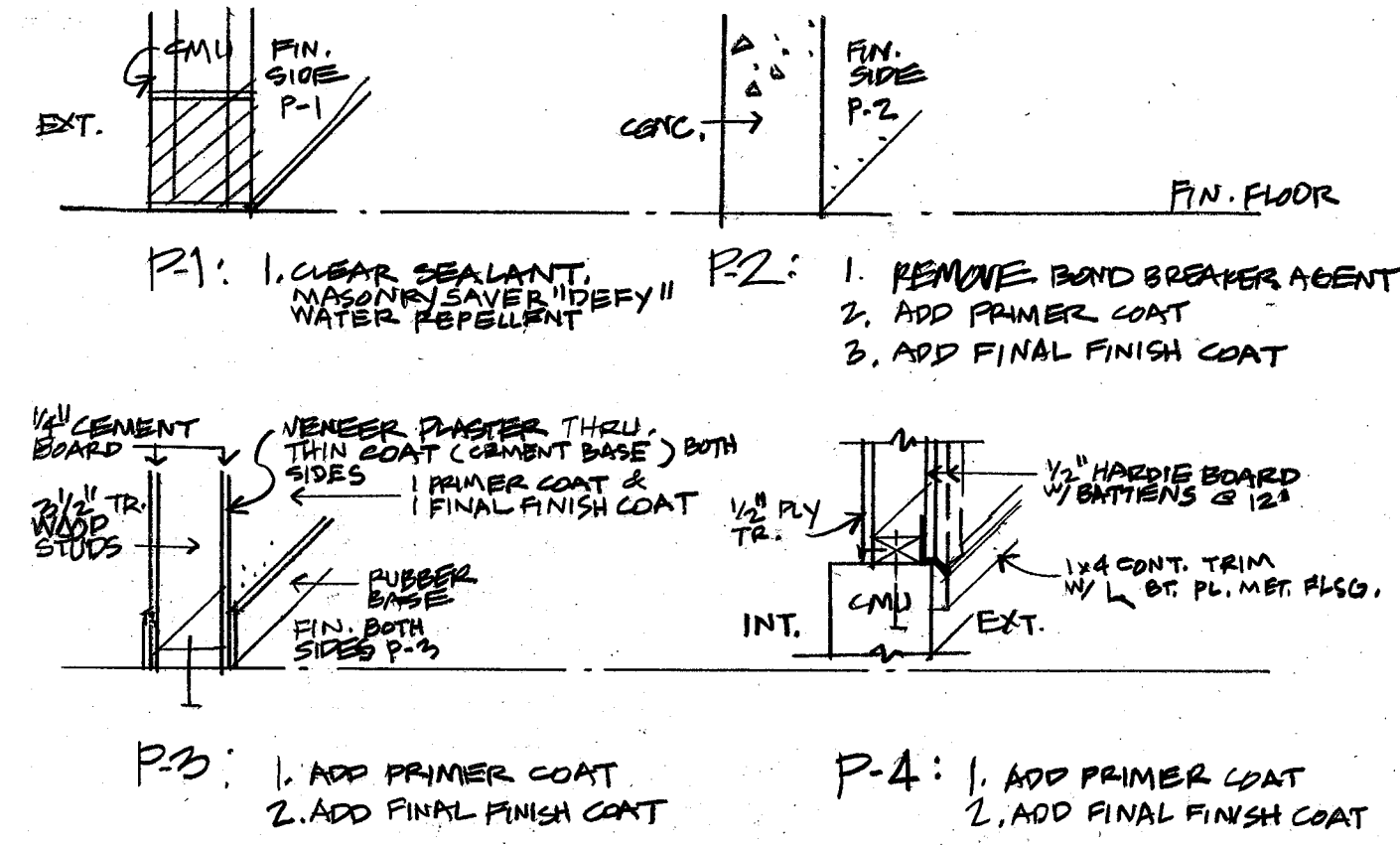
# DWS - DOOR, WINDOW AND RELIGHT SCHEDULE

DOOR NR.	DOOR TYPE	DOOR SIZE	MATERIAL	FINISH	SEE DOOR HDW. SCHED.	REMARKS
001A	F2	2'-6" x 7'-2"	STEEL	P-1	HW-01	GREEN PT.
101A	F2	4'-0" x 7'-2"	STEEL	P-1	HW-02	(1)1/2" FIXED LEAF, (1)3/8" ACTIVE LEAF GREEN PT.
103A	FL	3'-0" x 7'-2"	WOOD	P-1	HW-03	GREEN PT.
104A	FLG	3'-0" x 7'-2"	WOOD	P-1	HW-04	GREEN PT.
106A	FL	3'-0" x 7'-2"	WOOD		HW-06	GREEN PT.
104B	R	4'-0" x 4'-0"	TEMPERED GLAZING	P-1		FIXED RELIGHT GREEN PT.
WH 32x32	WH	2'-6" x 2'-6"	TEMPERED GLAZING	P-1		HOPPER TYPE GREEN PT.
LA 24x24	LA	2'-0" x 2'-0"	ACCOUSTIC	P-1		GREEN PT.

NOTES:  
1 FRAME FINISH WILL MATCH DOOR FINISH.

# ROOM FINISH SCHEDULE

ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL FINISH	SOUTH WALL FINISH	EAST WALL FINISH	WEST WALL FINISH	CEILING FINISH	REMARKS
001 MECHANICAL ROOM	CONC SEALANT	-	CONC PT2	CONC PT2	CONC PT2	CONC PT2	CONC -	
101 PANEL ROOM	CONC SEALANT	4" RUB.	CMU P-1	WOOD P-3	CMU P-1	WOOD P-3	WOOD	
102 STAIR	CONC SEALANT	4" RUB.	WOOD P-3	WOOD P-3	-	CMU P-1	WOOD	
103 CREW SUPPORT	CONC SEALANT	4" RUB.	WOOD P-3	WOOD P-3	WOOD P-3	CMU P-1	WOOD	
104 OPERATOR CONTROL	CONC SEALANT	4" RUB.	WOOD P-3	CMU P-1	WOOD P-3	CMU P-1	WOOD	
105 STORAGE	CONC SEALANT	4" RUB.	WOOD P-3	WOOD P-3	WOOD P-3	CMU P-1	WOOD	



## Hardware Schedule

Project ID: S3675749 MCKINNON CREEK PUMPHOUSE

### Heading #: HW-01 PAIR EXTERIOR

Opening	Location Description	Qty	Item Description	Handing	Label	Key
001A		1	HMD 2' 6"x7' 2" 1 3/4"	NH		
		1	HMD 2' 6"x7' 2" 1 3/4"	NH		
		1	HMF 0' 5' 0"x7' 2"			

### Hardware for Heading#: HW-01

6 EA	Hinge	5BB1HW 4-1/2" x 4-1/2" NRP	630	(HI-1) Ives		
2 EA	Flush Bolt	FB458	626	(BO-1) Ives		
1 EA	Dust Proof Strike	DP2	626	(BO-2) Ives		
1 EA	Mortise Lock	L9480 P L583-363 03A 10-072-1"	630	(LO-2) Schlage		
2 EA	Surface Closer	4040XP SCUSH	AL	(CL-1) LCN Closers		
2 EA	Kick Plate	8400 16" x 29"	US32D	(KP-1) Ives		
2 EA	Floor Stop	FS448	626	(ST-2) Ives		
1 EA	Threshold	613 x 72"		(TH-2) National Guard		
1 EA	Gasketing	5050B x 72" x 96"		(GA-2) National Guard		
1 EA	Drip Strip	16A x 64"		(GA-4) National Guard		
2 EA	Sweep	200NBR x 30"		(SW-2) National Guard		
2 EA	Cylinder	Cylinder by owner		(OT-2) Misc.		
1 EA	Lock Guard	LG1	630	(OT-1) Ives		

### Heading #: HW-02 PAIR EXTERIOR

Opening	Location Description	Qty	Item Description	Handing	Label	Key
101A		3 EA	Hinge	630	(HI-1) Ives	
		1 EA	Mortise Lock	630	(LO-3) Schlage	
		1 EA	Surface Closer	AL	(CL-1) LCN Closers	
		1 EA	Kick Plate	US32D	(KP-2) Ives	
		1 EA	Floor Stop	626	(ST-2) Ives	
		1 EA	Threshold		(TH-1) National Guard	
		1 EA	Gasketing		(GA-1) National Guard	
		1 EA	Drip Strip		(GA-3) National Guard	
		1 EA	Sweep		(SW-1) National Guard	
		1 EA	Lock Guard	630	(OT-1) Ives	
		1 EA	Cylinder		(OT-2) Misc.	

### Hardware for Heading#: HW-02

3 EA	Hinge	5BB1HW 4-1/2" x 4-1/2" NRP	630	(HI-1) Ives		
1 EA	Mortise Lock	L9480 P L583-363 03A 10-072-1-3/16"	630	(LO-3) Schlage		
1 EA	Surface Closer	4040XP SCUSH	AL	(CL-1) LCN Closers		
1 EA	Kick Plate	8400 16" x 34"	US32D	(KP-2) Ives		
1 EA	Floor Stop	FS448	626	(ST-2) Ives		
1 EA	Threshold	613 x 36"		(TH-1) National Guard		
1 EA	Gasketing	5050B x 36" x 96"		(GA-1) National Guard		
1 EA	Drip Strip	16A x 40"		(GA-3) National Guard		
1 EA	Sweep	200NBR x 36"		(SW-1) National Guard		
1 EA	Lock Guard	LG1	630	(OT-1) Ives		
1 EA	Cylinder	Cylinder by owner		(OT-2) Misc.		

### Heading #: HW-03 OFFICE

Opening	Location Description	Qty	Item Description	Handing	Label	Key
104A		1	WDD 3' 0"x7' 2" 1 3/4"			
		1	HMF 0' 3' 0"x7' 2"			

### Hardware for Heading#: HW-03

3 EA	Hinge	5BB1 4-1/2" x 4-1/2"	630	(HI-2) Ives		
1 EA	Mortise Lock	L9050 P L583-363 03A 10-072-1-3/16"	630	(LO-4) Schlage		
1 EA	Surface Closer	4040XP Rwp/PA	AL	(CL-2) LCN Closers		
1 EA	Kick Plate	8400 16" x 34"	US32D	(KP-2) Ives		
1 EA	Floor Stop	FS448	626	(ST-2) Ives		
3 EA	Silencer	SR64-GRY		(SI-1) Ives		
1 EA	Cylinder	Cylinder by owner		(OT-2) Misc.		

### Heading #: HW-04 RESTROOM

Opening	Location Description	Qty	Item Description	Handing	Label	Key
103A		1	WDD 3' 0"x7' 2" 1 3/4"			
		1	HMF 0' 3' 0"x7' 2"			

### Hardware for Heading#: HW-04

3 EA	Hinge	5BB1 4-1/2" x 4-1/2"	630	(HI-2) Ives		
1 EA	Mortise Lock	L9040 P L583-363 03A L283-712 L283-722 10-072-1-3/16"	630	(LO-1) Schlage		
1 EA	Surface Closer	4040XP Rwp/PA	AL	(CL-2) LCN Closers		
1 EA	Kick Plate	8400 16" x 34"	US32D	(KP-2) Ives		
1 EA	Wall Stop	WS407CCV	630	(ST-1) Ives		
3 EA	Silencer	SR64-GRY		(SI-1) Ives		

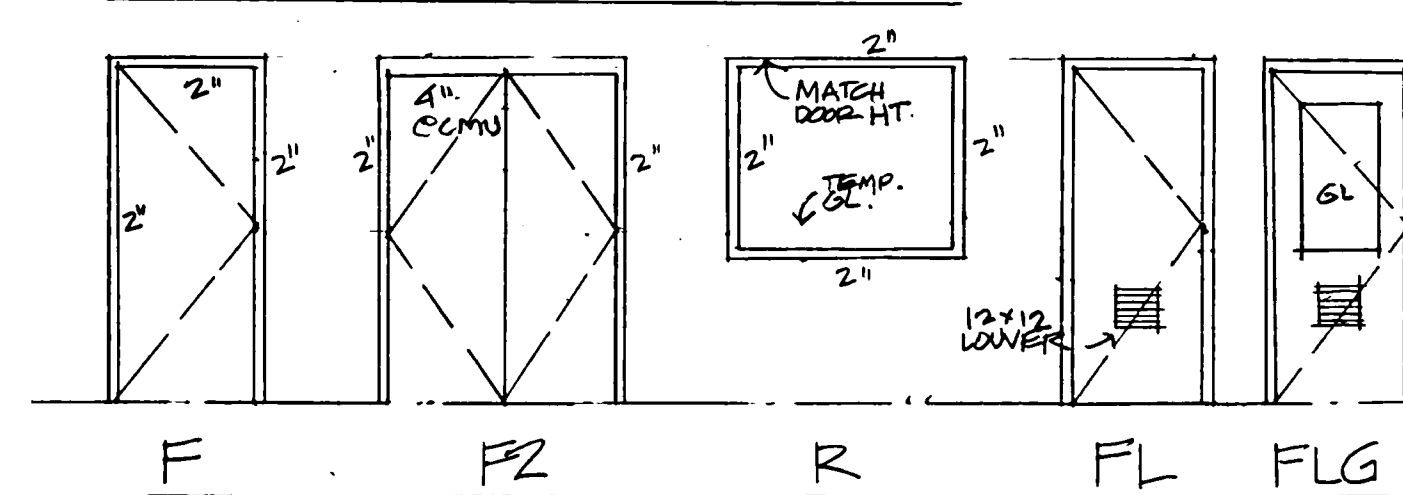
### Heading #: HW-05 STORAGE

Opening	Location Description	Qty	Item Description	Handing	Label	Key
105A		1	WDD 3' 0"x7' 2" 1 3/4"			
		1	HMF 0' 3' 0"x7' 2"			

### Hardware for Heading#: HW-05

3 EA	Hinge	5BB1 4-1/2" x 4-1/2"	630	(HI-2) Ives		
1 EA	Mortise Lock	L9480 P L583-363 03A 10-072-1-3/16"	630	(LO-3) Schlage		
1 EA	Wall Stop	WS407CCV	630	(ST-1) Ives		
3 EA	Silencer	SR64-GRY		(SI-1) Ives		
1 EA	Cylinder	Cylinder by owner		(OT-2) Misc.		

## DOOR TYPES (RELITES)



PETER  
GINTAUTAS  
NALIS  
=

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## REVISIONS

NR	DATE	DESCRIPTION
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## McKINNON CREEK PUMP FACILITY BUILDING

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LAKE FOREST PARK WA

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SEATTLE, WA 98105  
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## SCHEDULES NOTES DETAILS

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21 28

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A4

McKINNON CREEK PUMP BLDG

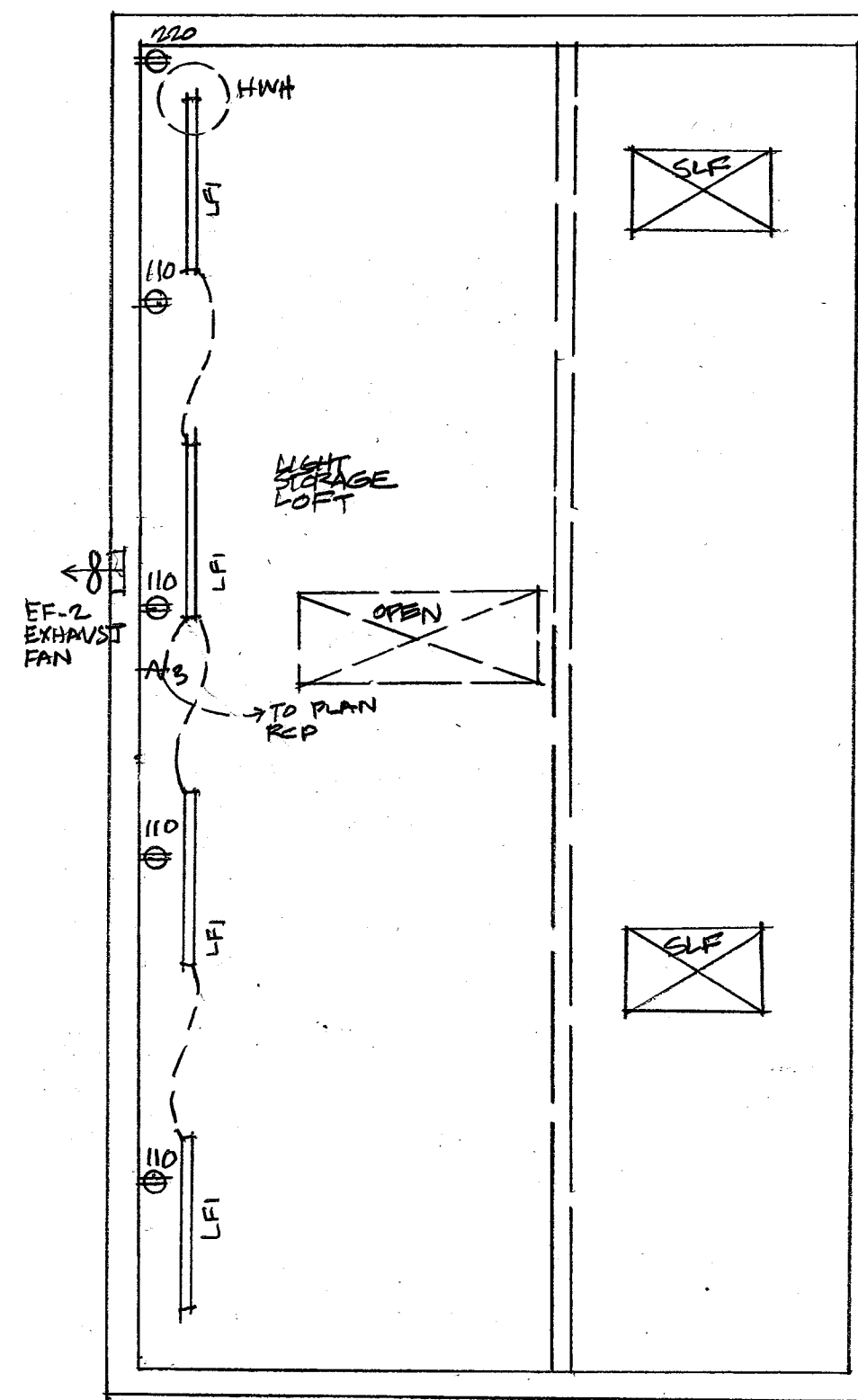


# LES - LIGHTING AND EQUIPMENT SCHEDULE

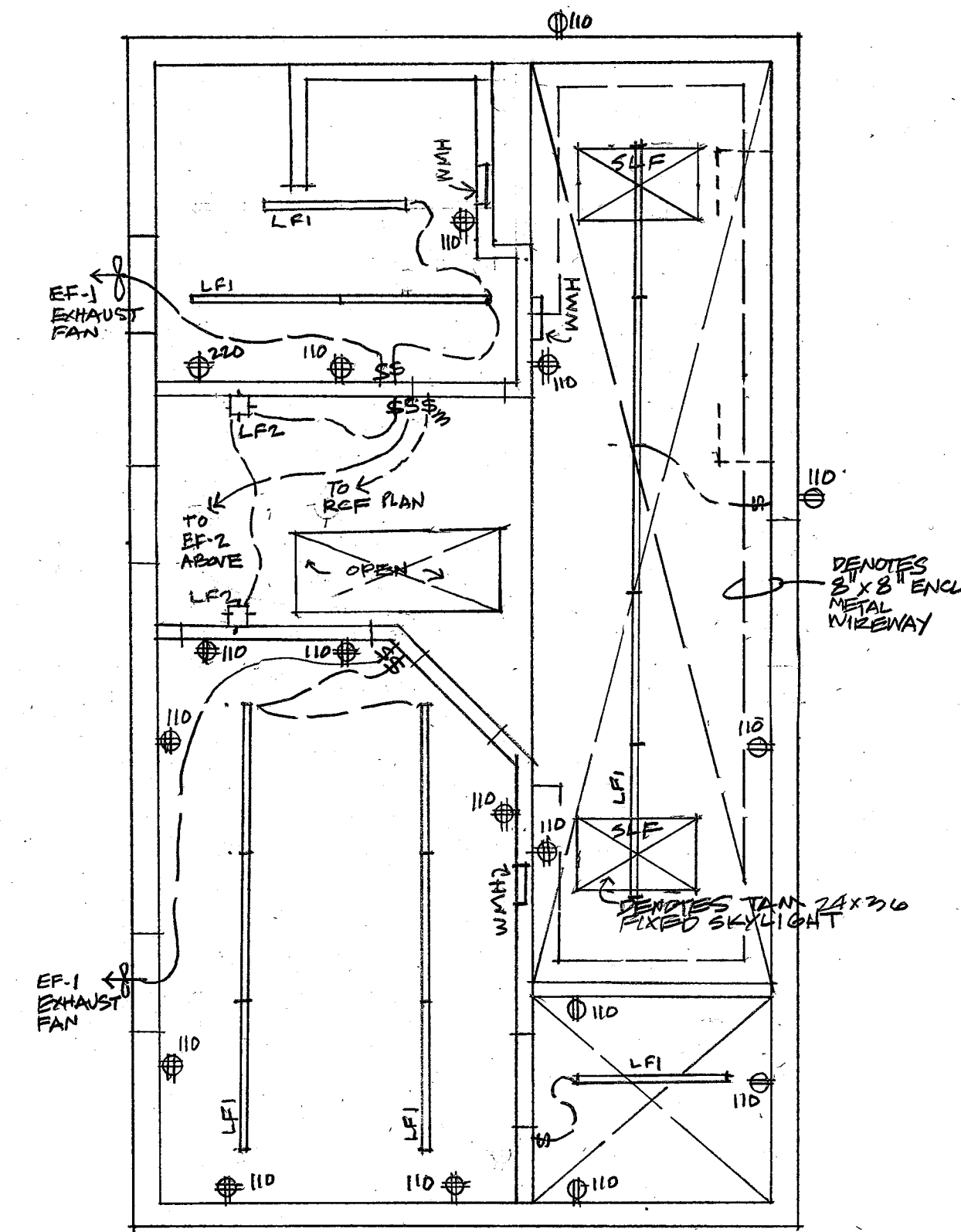
MARK	DESCRIPTION	REMARKS
LF-1	(2)BULB SUSPENDED OR FIXED 48" LONG LED, 2700K	WHITE
LF-2	PROGRESS LIGHTING P18000238, METALLIC GRAY ROUNDED TOP	METALLIC GRAY
LF-4	PROGRESS LIGHTING P18000241, METALLIC GRAY FLAT TOP	METALLIC GRAY
SH	FIBERGLASS SHOWERSTALL 36"x48" COMPLETE WITH GLASS DOOR AND ALL FIXTURES	WHITE
EF-1	EXHAUST FAN 100CFM	
EF-2	EXHAUST FAN 240CFM	
EF-3	EXHAUST FAN 2000CFM, VARIABLE SPEED CONTROL	
HWH	HOT WATER HEATER, 240V, 30 GAL CAPACITY	
SS	SPIRAL STAIR, PARAGON 6'-0" DIAM.	GALV. FINISH
WMH	WALL MOUNTED HEATER, 240V, DAYTON #3UG55	
W/D	WASHER/DRYER, 240V, VERTICALLY STACKED	WHITE
SCM	42" WIDE SINK/CAB, FAWCET, (GODMORGON RATTVIKEN) MIRROR/WALL CAB, (LILLANGEN)	IKEA WHITE IKEA WHITE
H-1	CEILING MOUNTED HEATER DAYTON 2YU67, 480V	PROVIDE MOUNTING BRACKETS

**NOTES:**

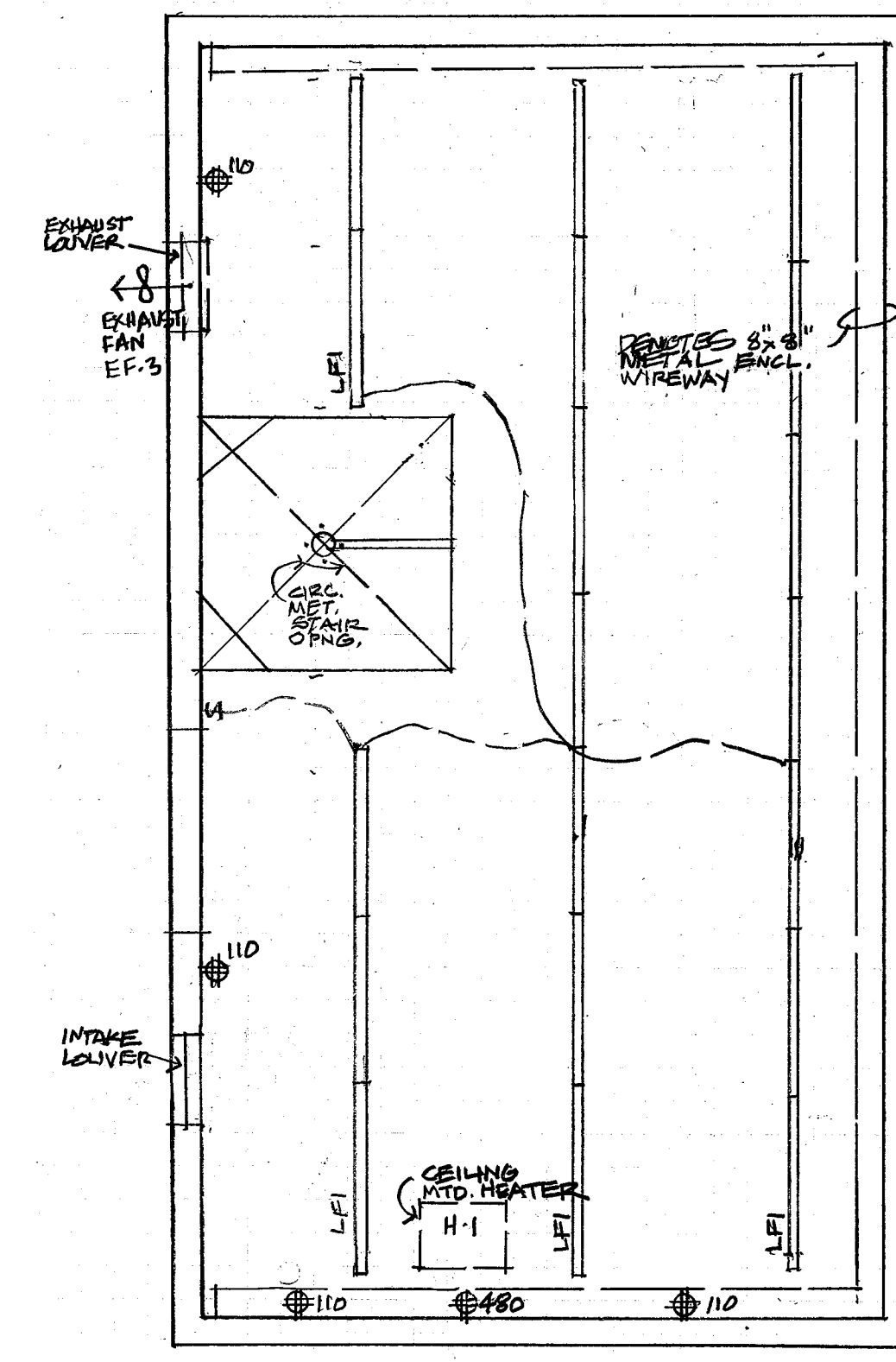
- 1 ARCH PLANS PROVIDE SUPPLEMENTARY INFORMATION FOR GENERAL ARRANGEMENT AND FINISHES. SEE ALSO ELECTRICAL, MECHANICAL, AND PLUMBING DOCUMENTS FOR ADDITIONAL SPECIFICATIONS AND INSTALLATION INFORMATION.
- 2 CONTRACTOR WILL PROVIDE ALL NECESSARY WOOD BLOCKING NECESSARY TO SUPPORT AND BRACE ATTACHED FIXTURES AND EQUIPMENT TO WALLS AND CEILING.



**RCFL** LOFT REFLECTED CEILING  
1/4" DO NOT SCALE



**RCP** MAIN FLOOR REFLECTED CEILING  
1/4" DO NOT SCALE



**RCL** LOWER FLOOR REFLECTED CEILING  
1/4" DO NOT SCALE

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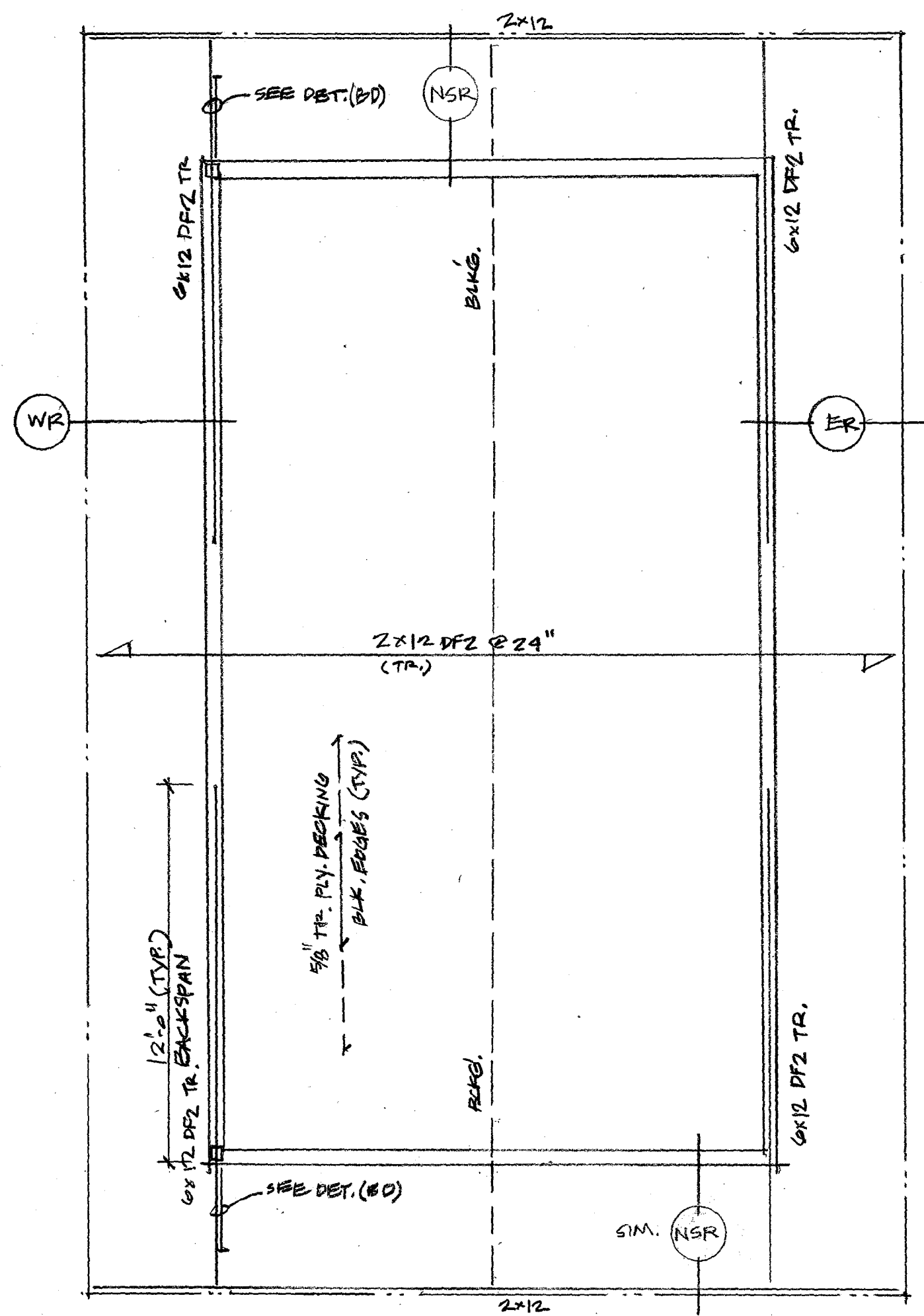
NALIS=AEC  
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**SCHEDULES NOTES DETAILS**

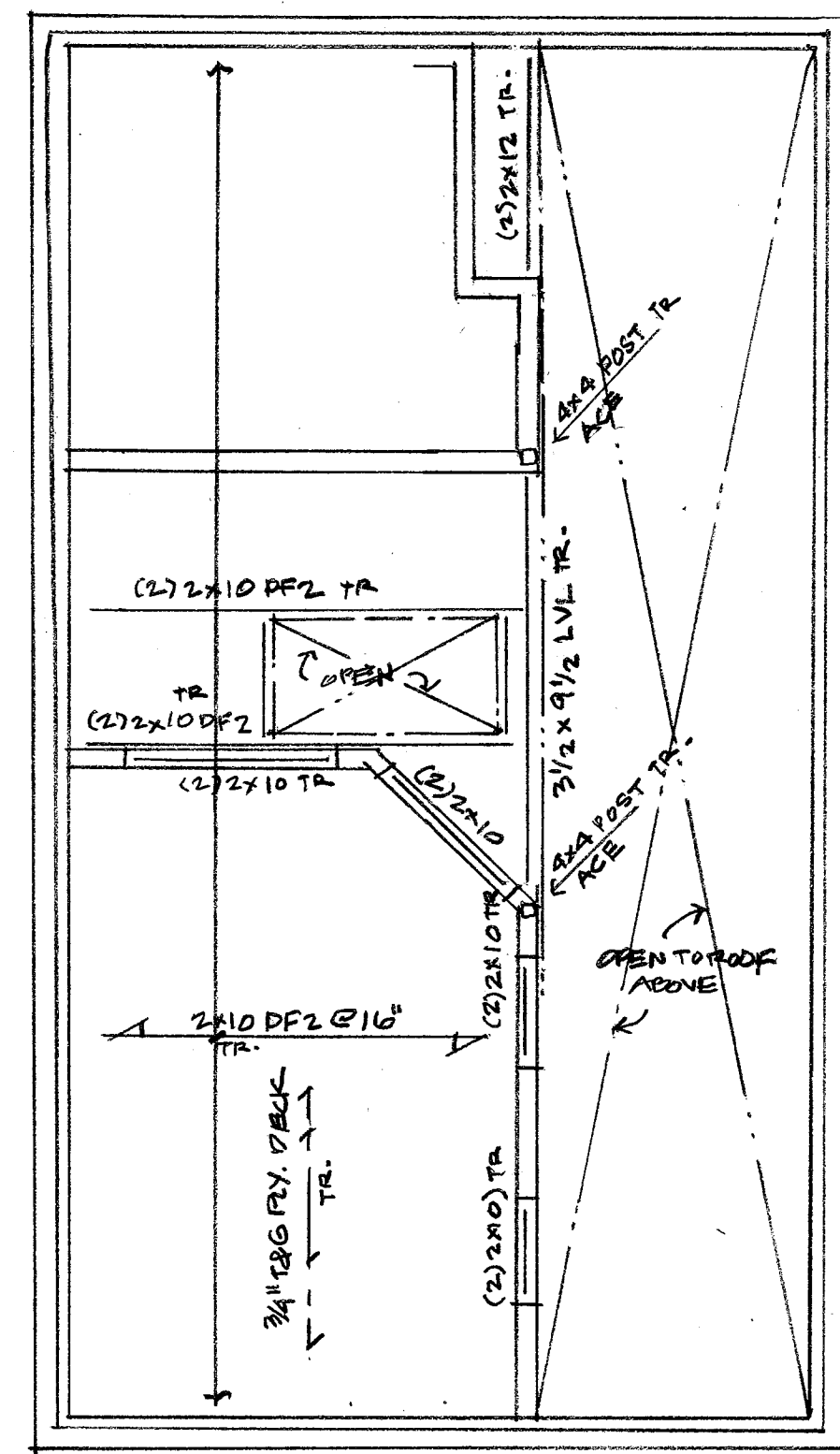
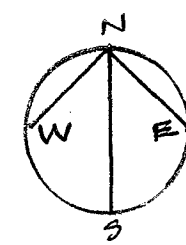
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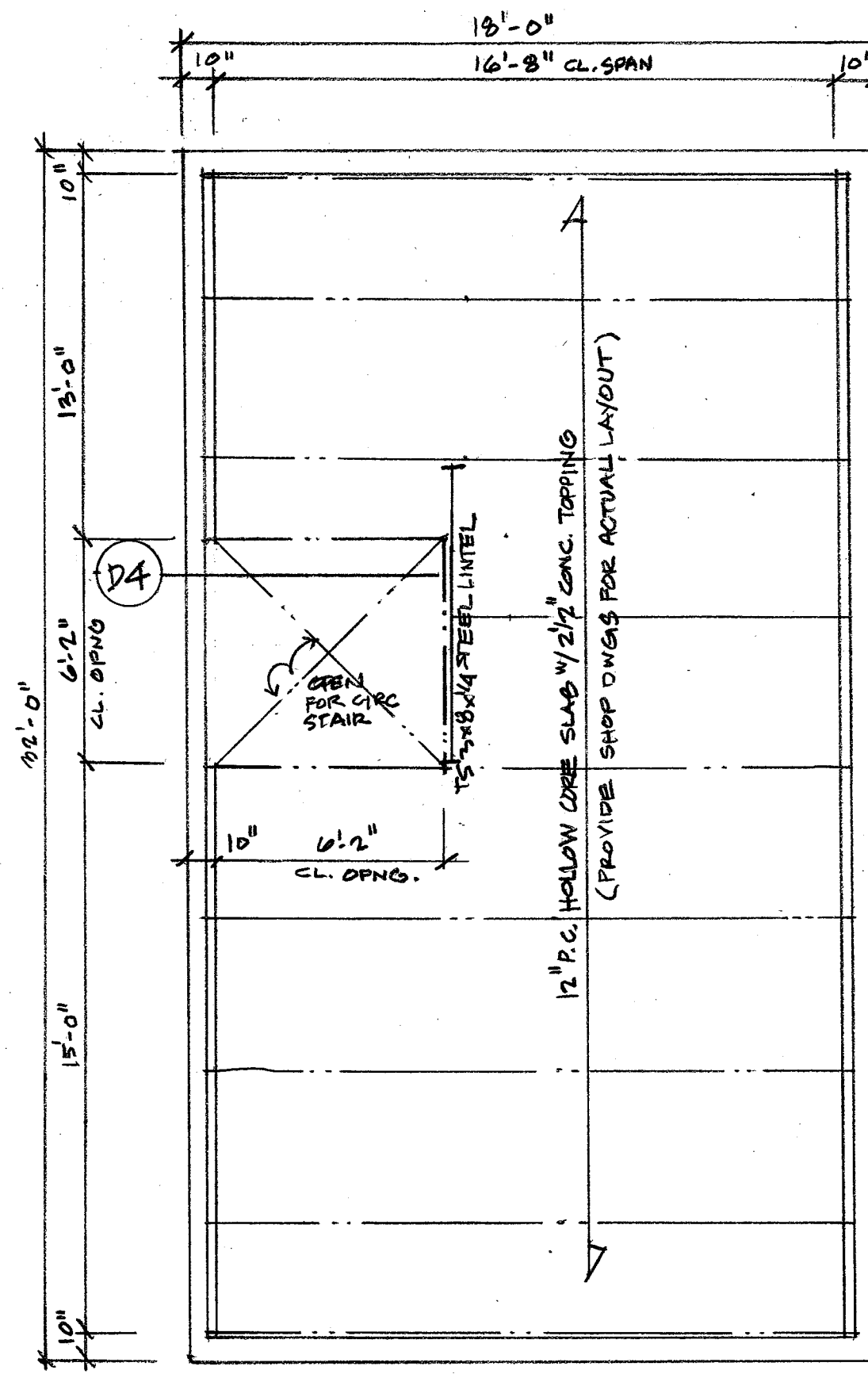
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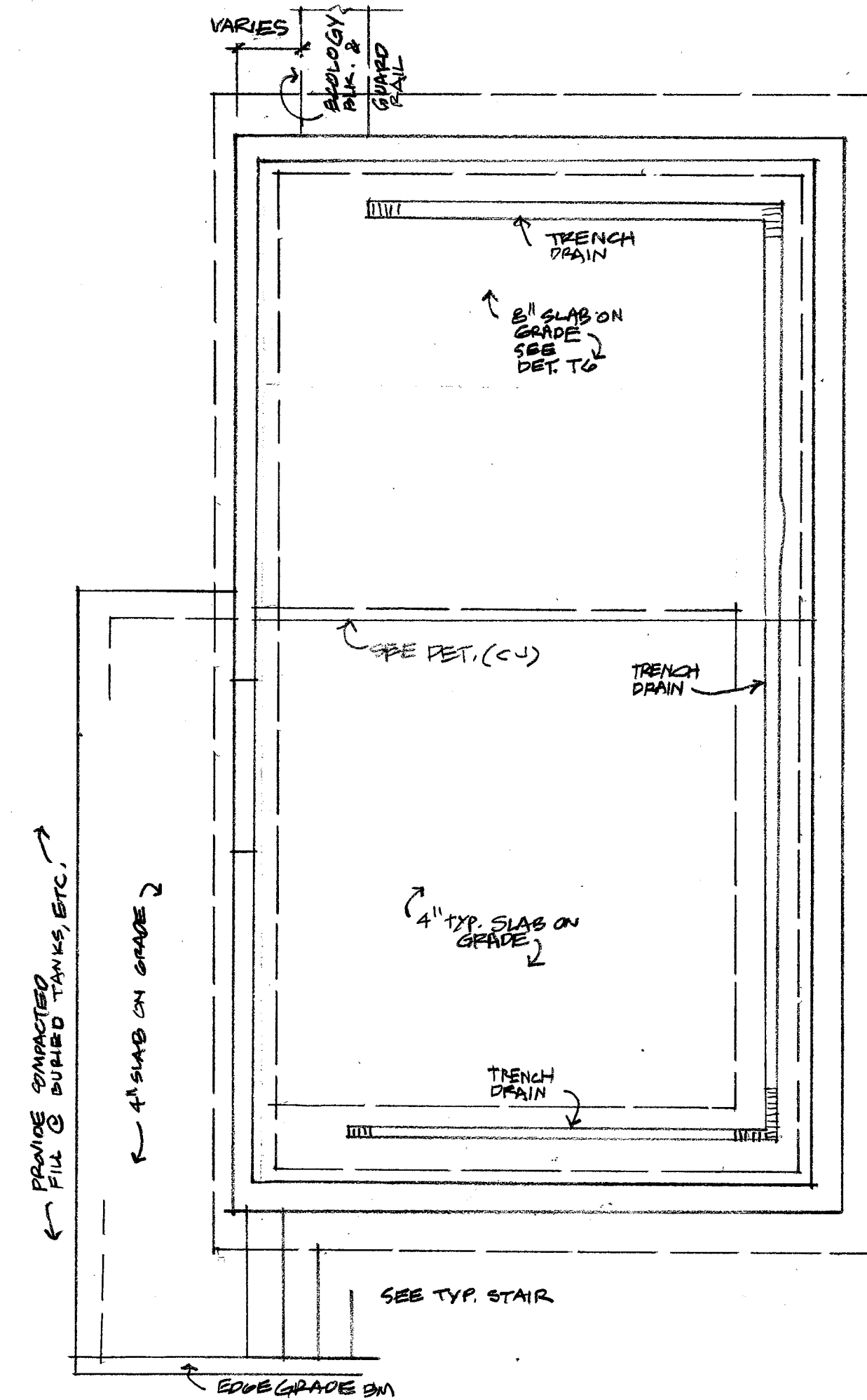
**RF** ROOF FRAMING PLAN  
 $\frac{1}{4}'' = 1'-0''$



**LF** LOFT FRAMING PLAN  
 $\frac{1}{4}'' = 1'-0''$  (& WALLS BELOW)



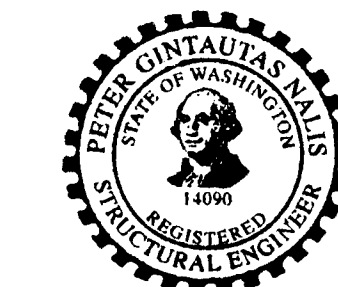
**MF** MAIN FLOOR FRAMING PLAN  
 $\frac{1}{4}'' = 1'-0''$  (& WALLS BELOW)



**F** FOUNDATION PLAN  
 $\frac{1}{4}'' = 1'-0''$

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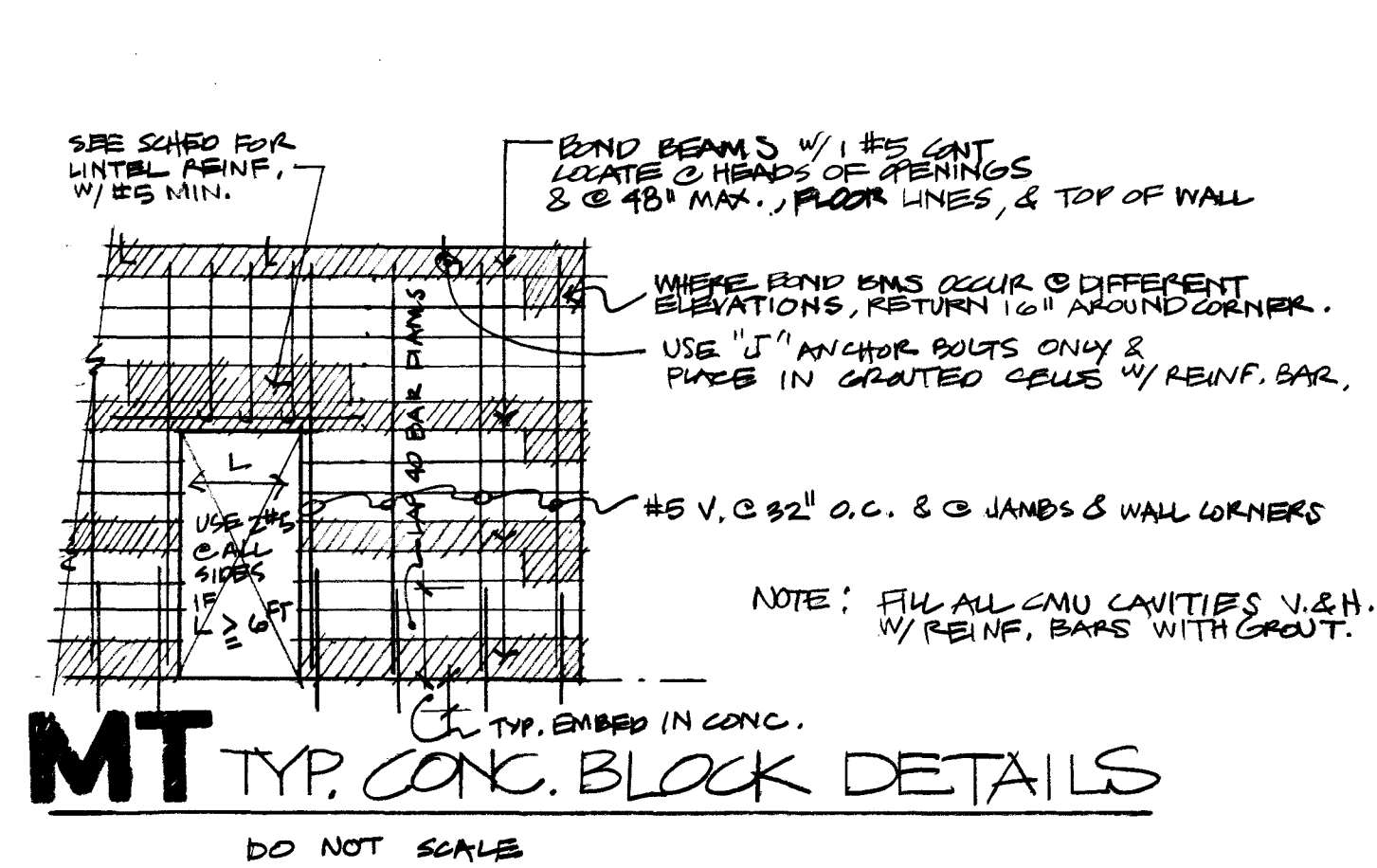
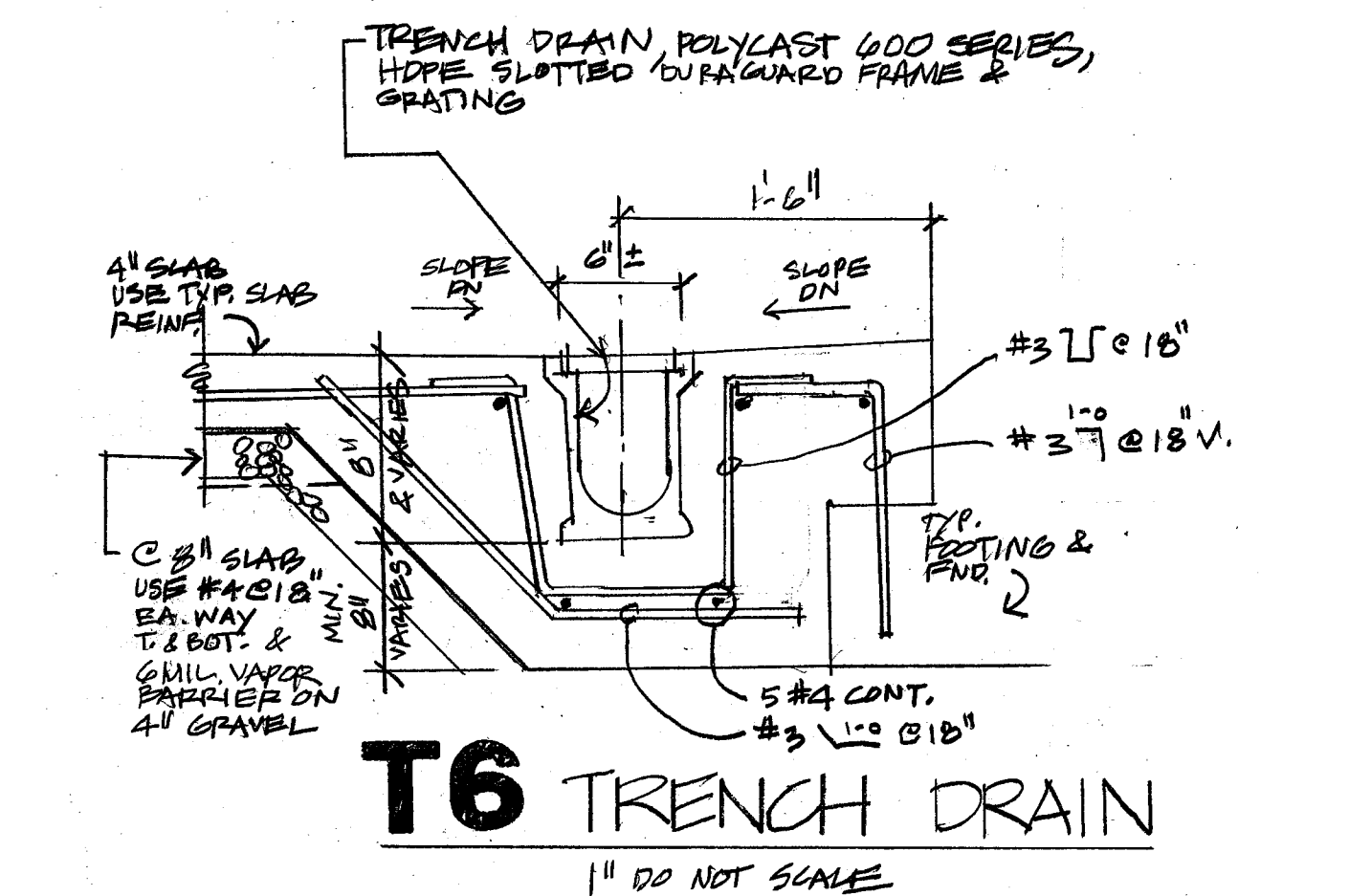
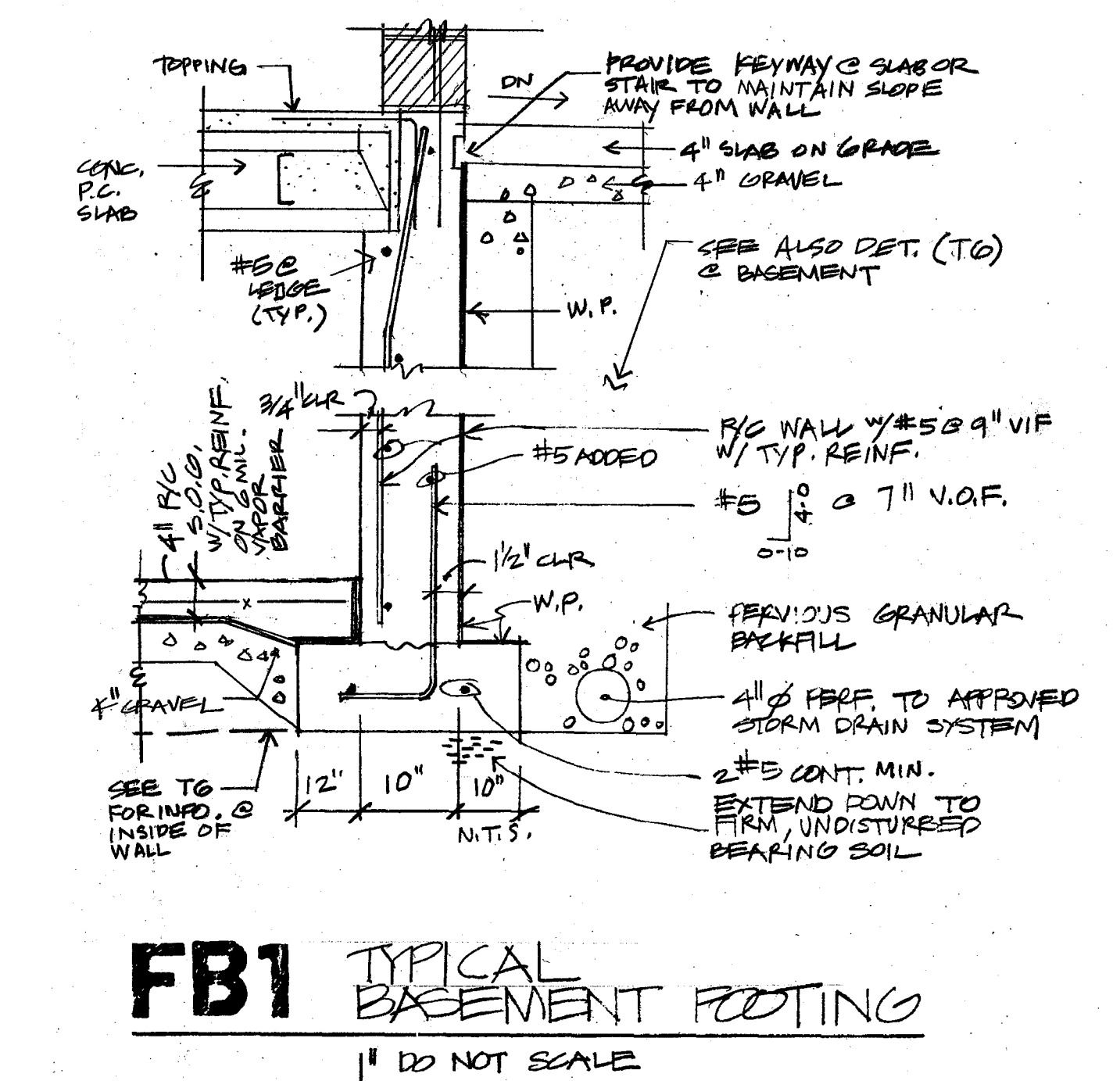
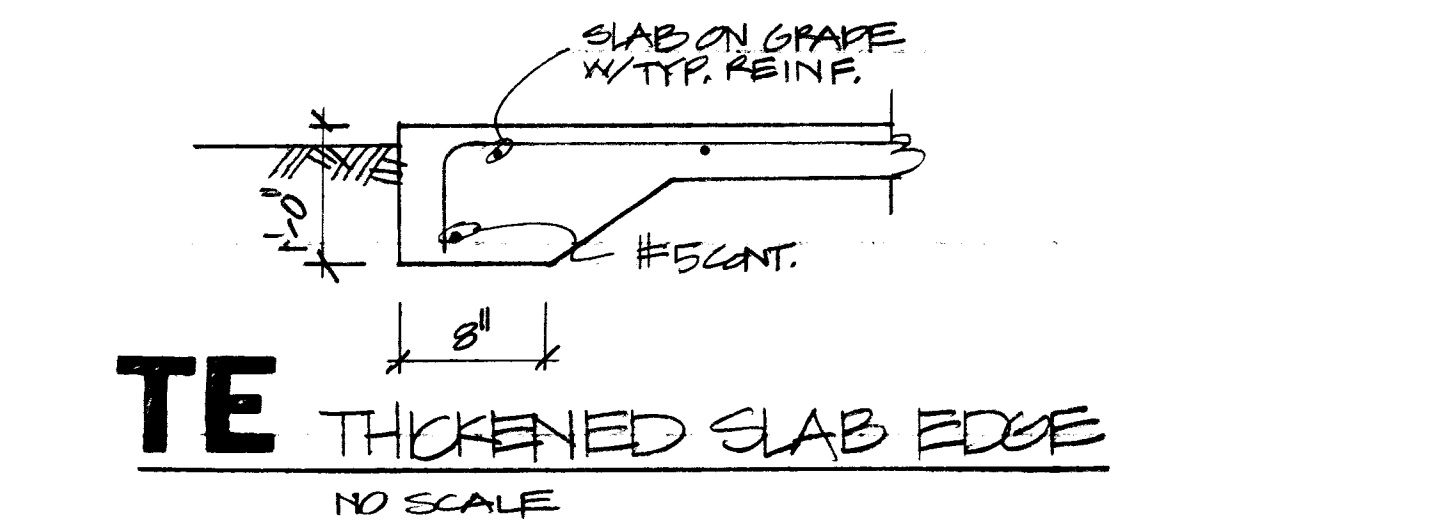
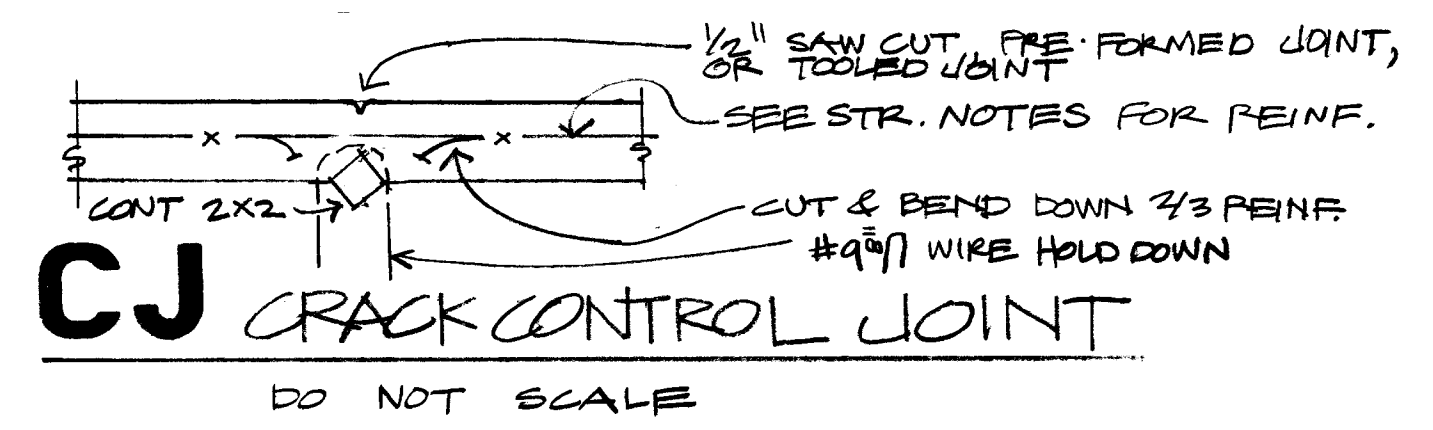
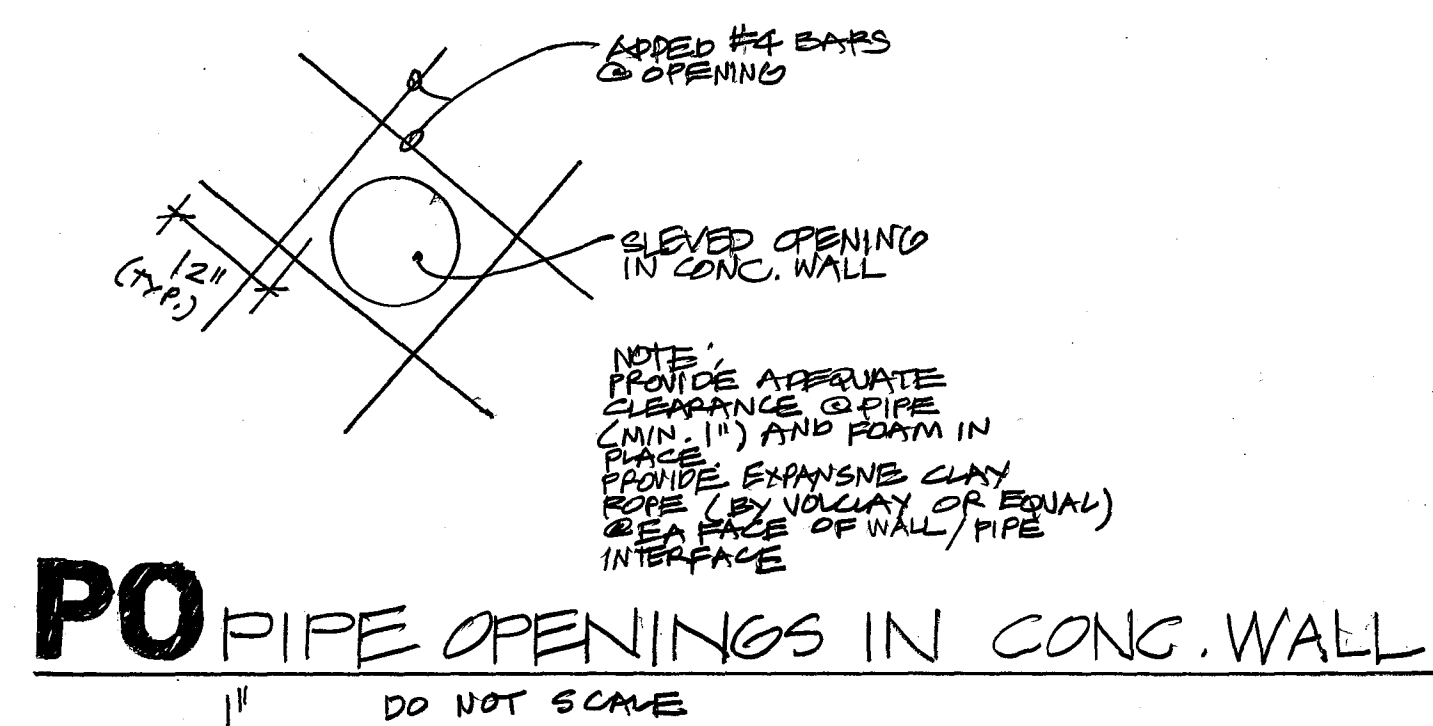
**STRUCTURAL PLANS AND TYPICAL DETAILS**

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 23 28

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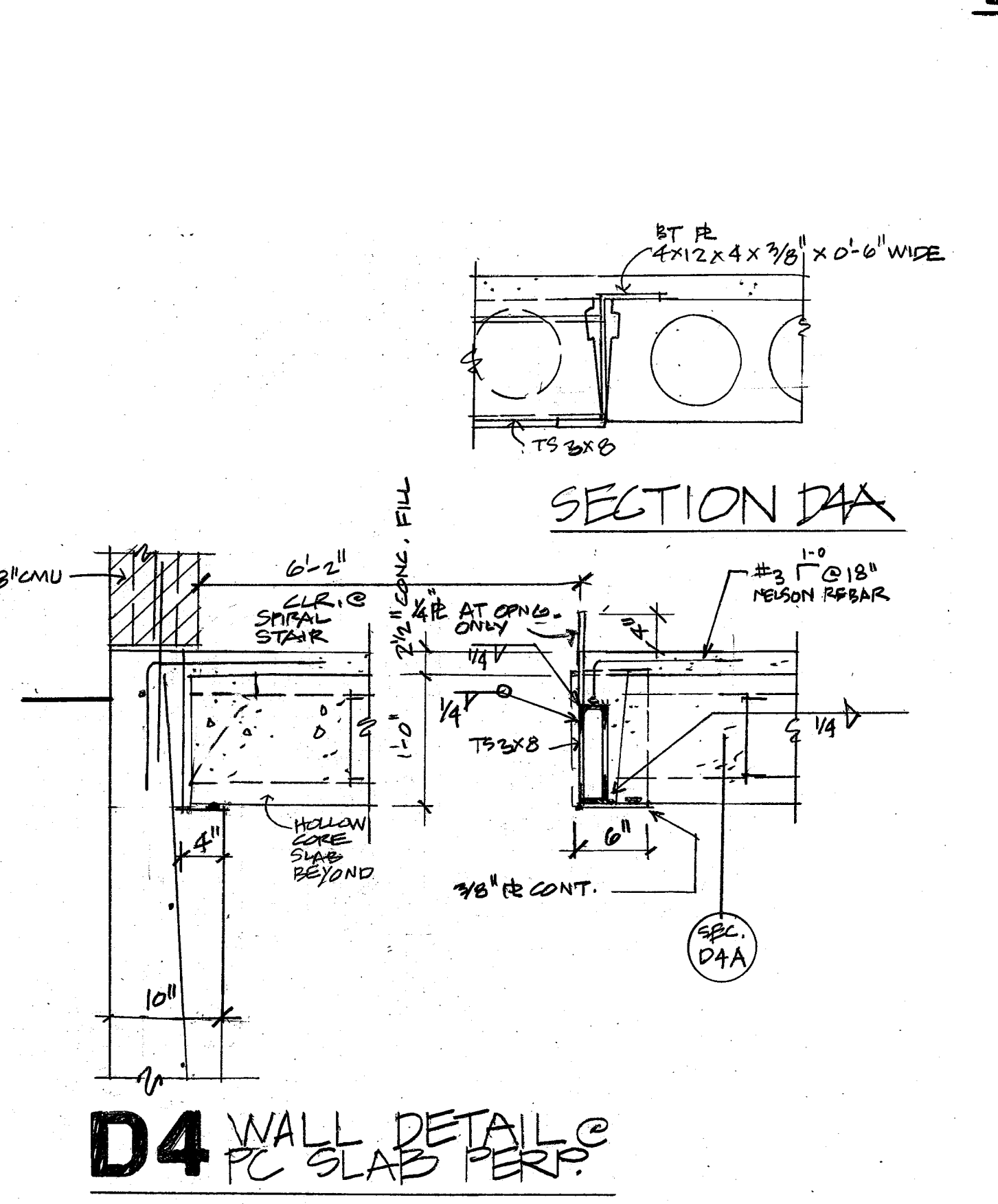
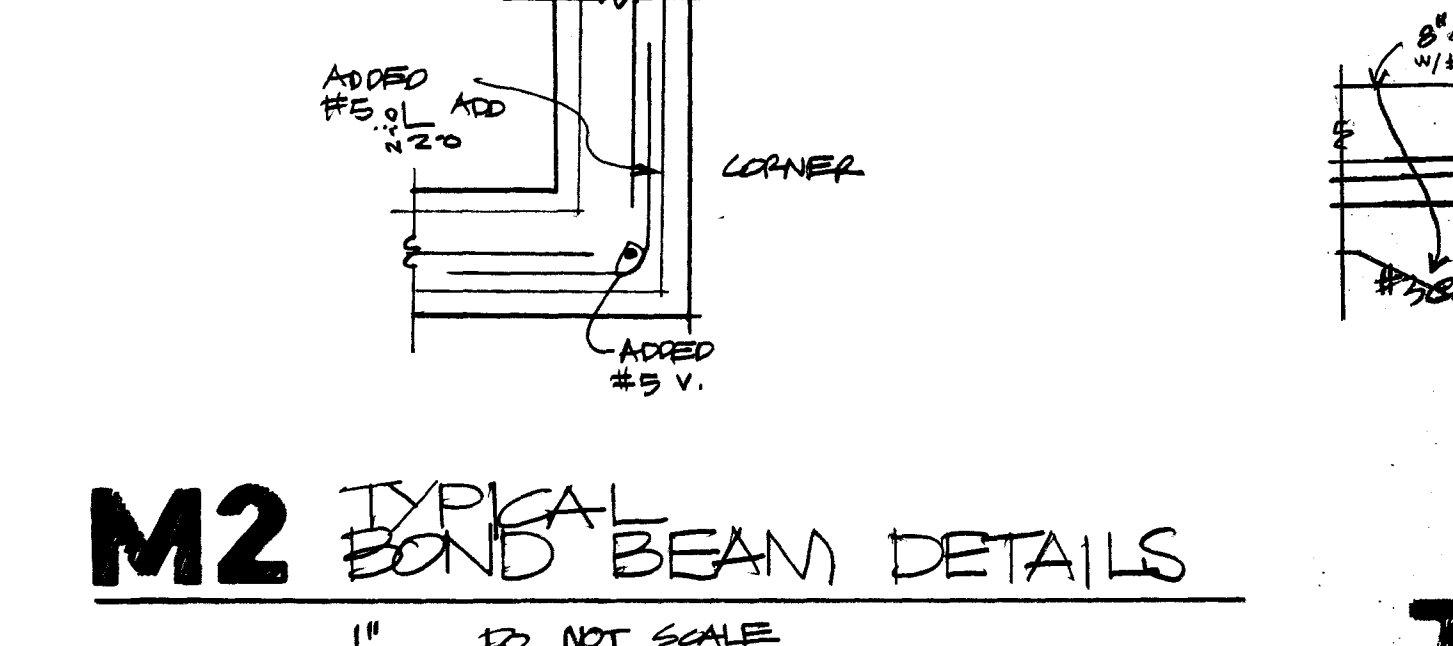


**CONCRETE BLOCK LINTEL SCHEDULE**

SPAN IN FT.	NUMBER OF COURSES	BOTTOM REIN.	TOP REIN.	VERT. REIN.	TYPE	NOTES
4	1	2 - #4	NONE	#4 @ 16"	1	1
5	1	2 - #4	2 - #4	#4 @ 16"	1	1
6	2	2 - #4	2 - #4	#4 @ 16"	2	1

**CONCRETE BLOCK LINTEL SCHEDULE NOTES:**

- EXTEND LINTEL REINFORCING AND GROUT 2'-8" BEYOND OPENING. WHERE FULL EXTENSION CANNOT BE OBTAINED, EXTEND BARS AS FAR AS POSSIBLE AND HOOK OR BEND UP 90 DEG.



**(F&C) FASTENERS & CONNECTIONS**

- ALL FASTENER AND CONNECTION SYSTEMS EXPOSED TO WEATHER OR WOOD TREATED WITH PRESERVATIVE WILL BE GALVANIZED.
- TYPICAL WALL BRACING WILL CONFORM TO IBC FASTENING SCHEDULE 2304.9.1
- SEE FOUND PLANS FOR SILL PLATE CONN TO CONCRETE WALL. OTHERWISE WALLS WILL BE FASTENED TO CONCRETE WITH TREATED 3" NOM. LUMBER SILL PLATES WITH THE FOLLOWING FASTENERS:
  - fastener - description - maximum spacing
- 5/8" ANCHOR BOLT W/2"x3/16" BRG PL & 9" EMBED SEE PLANS W/48" MAX. FASTENERS WILL BE LOCATED AT CORNERS, WALL OPENINGS, AND W/MAX SPACING ELSEWHERE.
- ADHESIVES WILL BE USED TO ATTACH CONCRETE TO STEEL CONNECTORS AS DEVELOPED AND MANUFACTURED BY THE SIMPSON STRONG-TIE CO. OF CALIF. TEL: 415-262-7775 FOR CATALOGUE. (SUBSTITUTIONS OF OTHER APPROVED EQUIVALENTS ARE PERMISSIBLE.)
- EXPANSION STUD ANCHORS WILL BE WEDGE TYPE AS MANUF. BY KWIK-BOLT OR PHILLIPS REDHEAD.
  - embed - spacing - edge - remarks
- 1/4" DIAM ESA 2 1/2" 2.5 min SEE PLANS FOR SIZE & LOC.
  - 3/8" DIAM ESA 4 1/2" 4.5 min SEE PLANS FOR SIZE & LOC.
  - 1/2" DIAM ESA 6 1/2" 6 min SEE PLANS FOR SIZE & LOC.
  - 3/4" DIAM ESA 8 1/2" 8 min SEE PLANS FOR SIZE & LOC.
- REINFORCING BARS ANCHORED INTO EXISTING CONCRETE WILL BE INSTALLED AS FOLLOWS USING "HI ADHESIVE CARTRIDGE FASTENING SYSTEM AND COMPONENTS":
  - embed - hole size - adhesive cartridge descrip.

**(INSP) INSPECTIONS**

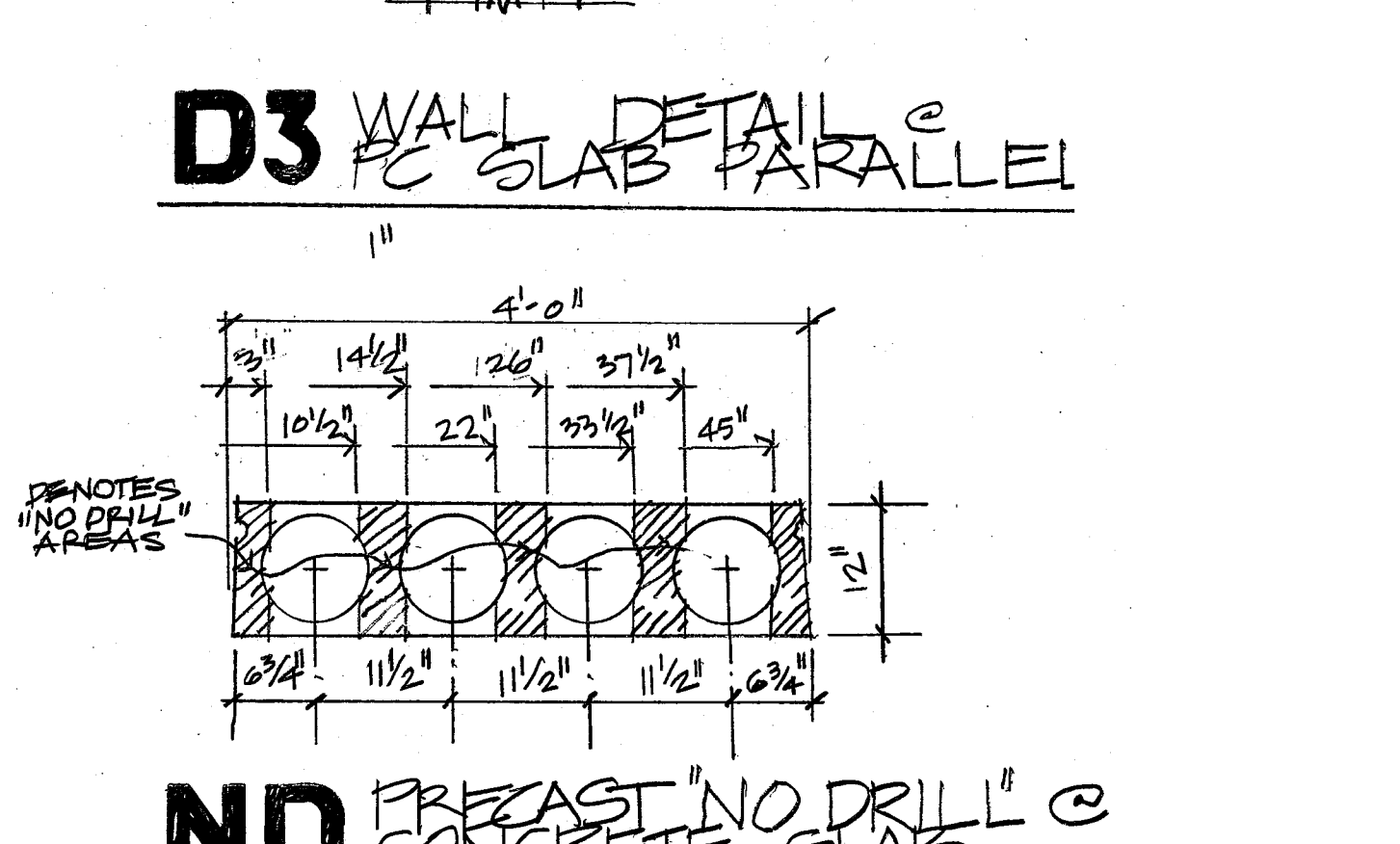
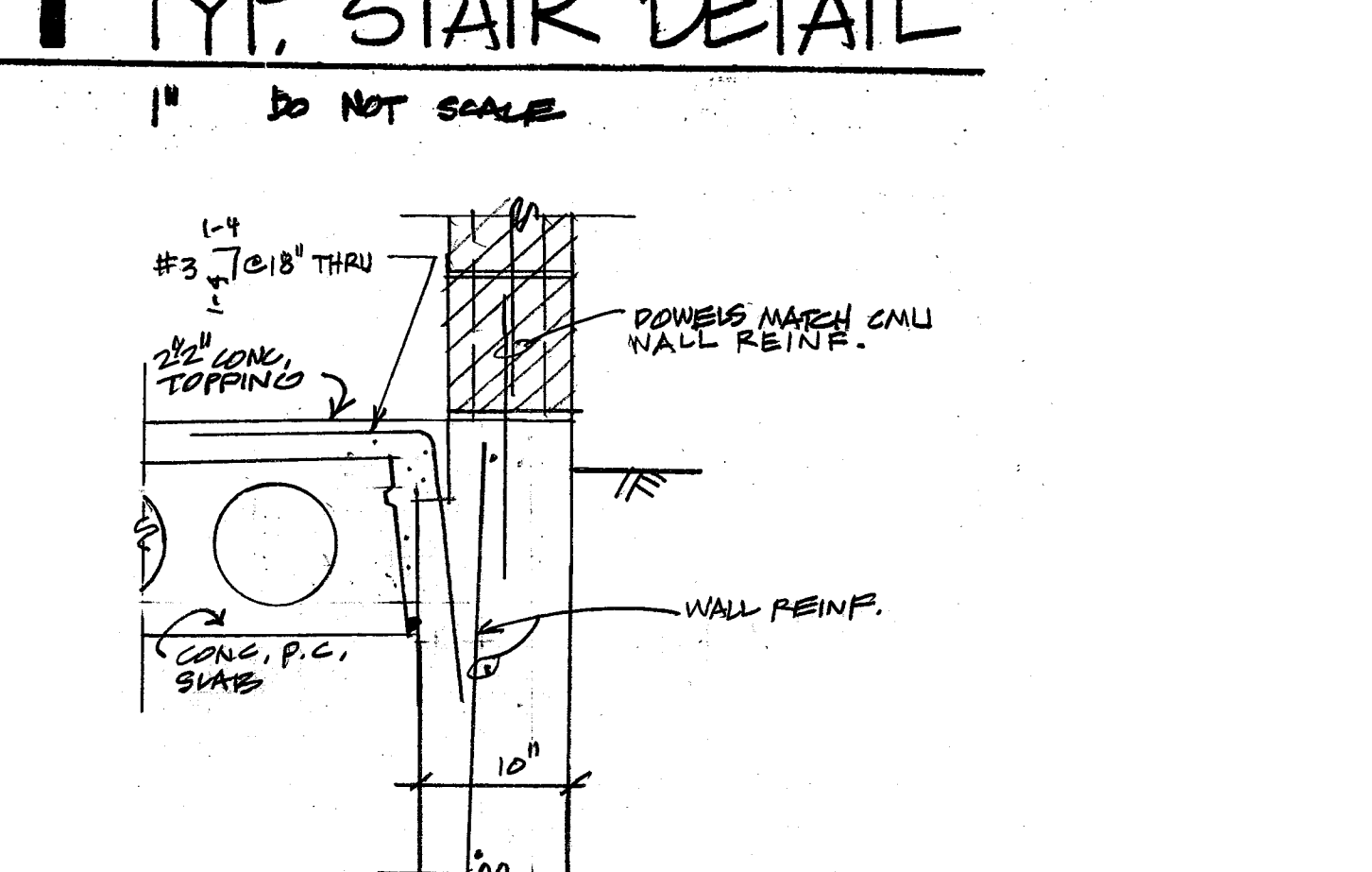
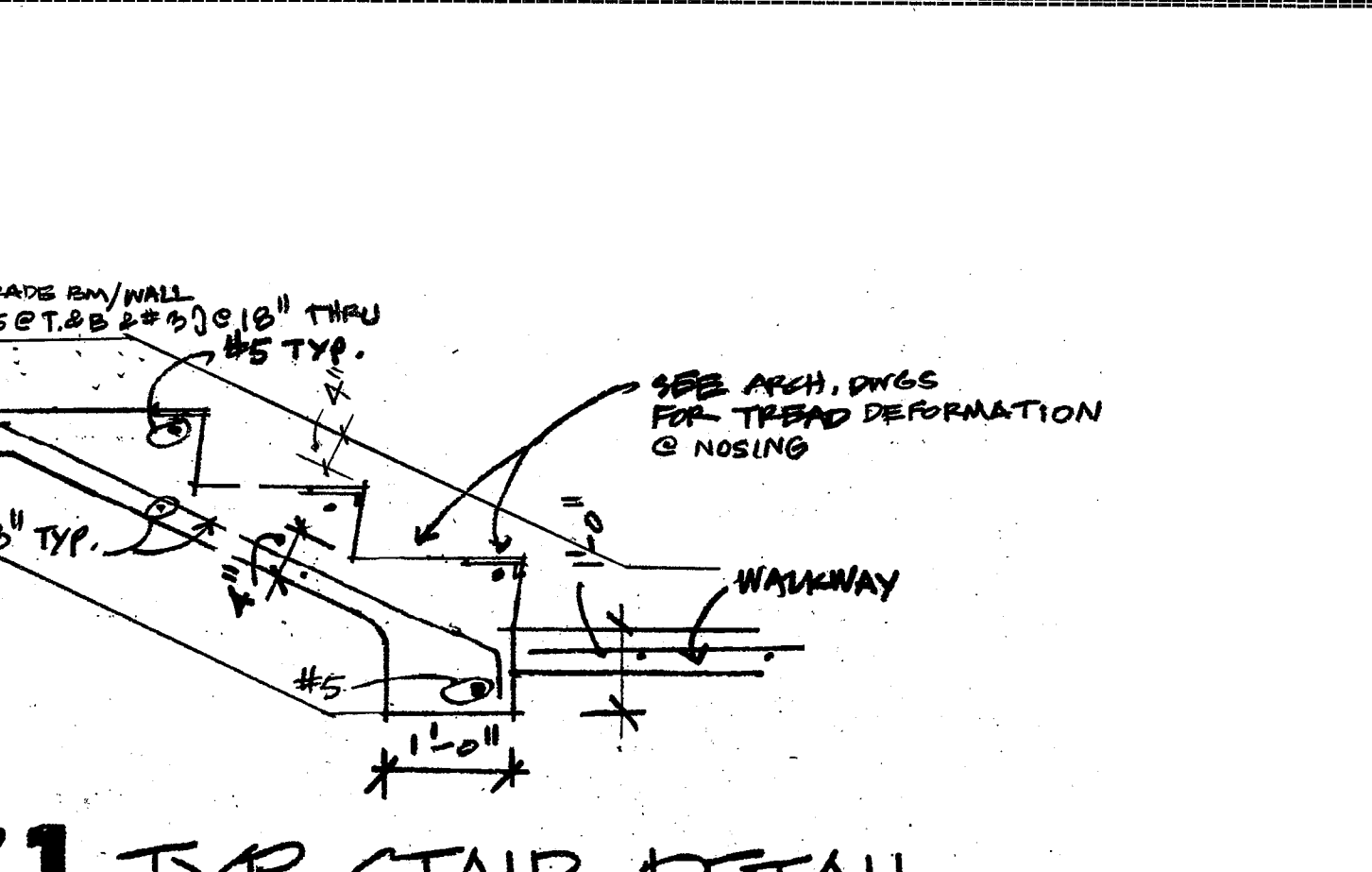
- SPECIAL INSPECTIONS PROVIDED BY THE OWNER OR HIS AGENT PER UBC SECTION 1701.3 & 1701.5
- ALL INSPECTIONS WILL BE WABO CERTIFIED SPECIAL INSPECTORS.

**(MISC) MISCELLANEOUS**

- CONTRACTOR WILL VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY A/E
- CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING NECESSARY APPROVALS
- CONTRACTOR ACCEPTS SOLE RESPONSIBILITY FOR JOBSITE SAFETY
- SAFETY OF EMPLOYEES AND ALL OTHERS BRACING, SHORING, AND PROTECTION OF LIFE
- CONTRACTOR WILL NOTIFY A/E IF ACTUAL FIELD CONDITIONS ARE NOT AS ASSUMED
- CONTRACTOR WILL NOTIFY THE OWNER AND A/E OF ANY CONTEMPLATED FIELD CHANGES PRIOR TO CONSTRUCTION OF MODIFICATIONS
- CONTRACTOR WILL OBTAIN INSPECTIONS FROM AN INDEPENDENT TESTING LAB PER UBC SECTION 306 AND REQUIREMENTS OF LOCAL MUNICIPALITY
- CONTRACTOR WILL NOTIFY THE OWNER, A/E, AND THE LOCAL BUILDING OFFICIAL AT CRITICAL CONSTRUCTION MILESTONES EST. BY THE LOCAL BUILDING OFFICIAL IN ORDER TO OBTAIN NECESSARY APPROVALS PRIOR TO COMMENCEMENT OF WORK.
- SPECIALTY SUBCONTRACTORS TO A/E AND BUD OFFICIALS
- DESIGN AND SHOP DRAWINGS FOR REVIEW AND APPROVALS PRIOR TO FABRICATION AND AS DIRECTED BY THE BUILD OFFICIAL. REVIEW OF STRUCTURAL SUBMITTALS WILL NOT EXCEED 5 WORKING DAYS.

**(SUP) SUPPL. STRUCTURAL NOTES**

- IN ORDER TO AVOID DIMENSIONING CONFLICTS, OVERALL DIMENSIONS ON ARCHITECTURAL DRAWINGS ARE NOT REPEATED ON STRUCTURAL PLANS. REFER TO ARCHITECTURAL DRAWINGS AND FIELD DIMENSIONS FOR BUILDING GEOMETRY NOT INDICATED ON STRUCTURAL DRAWINGS.
- THESE DRAWINGS ARE FOR THE STATE LICENSED PROFESSIONALS AND ARE INTENDED FOR USE BY EXPERIENCED CONSTRUCTION CONTRACTORS WHO ARE FAMILIAR WITH THE INTERPRETATION OF STRUCTURAL DIAGNOSTIC CONSTRUCTION DOCUMENTS. CALL ARCHITECT OR ENGINEER PRIOR TO ORDERING CONSTRUCTION MATERIALS IF ANY CLARIFICATIONS ARE NEEDED.



**STRUCTURAL NOTES**

**(DC) DESIGN CRITERIA**

- GOVERNING CODE: 2015 INTERNATIONAL BUILDING CODE
- DESIGN LOADS: UNLESS INDICATED OTHERWISE
  - value - description

25 PSF	ROOF LIVE LOAD	80 MPH	WIND SPEED
15 PSF	TYPICAL ROOF DEAD LOAD	SHIELDED	WIND EXPOSURE CONDITION
100 PSF	FLOOR LIVE LOAD	55 PCF	EQUIV. AT-REST FLOOR PRESS. (S.SPAN)
		2000 PSF	SOIL BEARING CAPACITY

**(F) FOUNDATIONS**

- FOUNDATION DESIGN COMPLIES WITH THE FOLLOWING GEOTECHNICAL INVESTIGATIONS:
  - GEOTECH. ENGINEER: RICK POWELL PE
  - DESCRIPTION: ROBINSON NOBLE 2083 008A - 253-475-7711
- PLACE ALL BUILDING FOOTINGS ON FIRM, UNDISTURBED NATIVE SOIL AND AT LEAST 12" BELOW FINISHED GRADE. ALL FOOTINGS TO BE LOCATED ON COMPETENT BEARING SOIL.
- SUPERVISOR OF GEOTECHNICAL ENGINEER
- PROVIDE STABLE SLOPES AND ADEQUATE SHORING TO MAINTAIN SAFE EXCAVATION TRENCHES.
- GENERATING 10 FT MIN. INTO COMPETENT BEARING SOIL.
- AT CONCRETE EARTH RETAINING WALLS, PROVIDE 2 COATS OF ASPHALTIC EMULSION OR OTHER WATER REPELLENT TO EXISTING WALL SURFACE.
- PROVIDE PERIM 3" TIGHT LINE DRAIN 24" BELOW GRADE, DRAIN TO APPROVED STORM SYSTEM.
- PROVIDE PERIM PERFORATED 4" DRAIN BELOW BSMT LEVEL AND DRAIN TO APPROVED STORM SYSTEM.

**(MRW) MASONRY RETAINING WALL**

- SEE SITE PLAN AND GEOTECH REPORT FOR ECOLOGY BLOCK RETAINING WALL LOCATION & SPECS.

**(C) CONCRETE**

- CONCRETE PROPORTIONS:
 

MIN. CONG. SACKS OF CEMENT	GALS. OF WATER PER CEMENT	MAX. SLUMP	LOCATION
5	5 1/2	6 3/4"	C.I.P. CONCRETE
- MINIMUM STEEL REINFORCING STRENGTH:
 

DESCRIPTION	LOCATION
40 KSI	GR 40 DEFORMED REINF. BARS
- CONCRETE COVER:
 

COVER	LOCATION
3/4"	SLABS, WALLS & JOISTS WITH NO EXPOSURE TO EARTH OR WEATHER
1 1/2"	FOOTINGS/FOUND. CAST AGAINST & PERMANENTLY EXPOSED TO EARTH
1 1/2"	BEAM AND COLUMN TIES AND STIRRUPS
- MINIMUM TYPICAL WALL REINFORCING WILL BE AS FOLLOWS:
 

WALL REINFORCING	REINFORCING	USUAL LOCATION
thick - vert.	vert.	location
4"	#5 @ 12"	CENTER OF WALL
6"	#5 @ 15"	CENTER OF WALL
8"	#5 @ 18"	CENTER OF WALL
10"	#5 @ 18"	CENTER OF WALL
- PROVIDE ADDED WALL CORNER REINFORCING AT CONCRETE WALL INTERSECTIONS. RETAINING EARTH AS INDICATED IN THE DRAWINGS BELOW. MATCH HORIZ WALL REINFORCING AND MAINTAIN REQUIRED CLEARANCES AND BAR EMBEDMENT LENGTHS.

**(CMU) CONCRETE MASONRY UNITS**

- ALL CONCRETE MASONRY UNITS (CMU) WILL BE GRADE N UNITS CONFORMING TO ASTM C140-90 AND MEE THE REQUIREMENTS OF QUALITY CONTROL STANDARDS OF CONCRETE MASONRY ASSN. (CMAA)
- MORTAR WILL BE ADMIXTURE MODIFIED TYPE S MORTAR MIXED IN A RATIO BY VOLUME OF 1-PART CEMENT, 1 1/2 PART LIME PUTTY, AND 4 1/2 PARTS SAND
- ALL CELLS CONTAINING REINFORCEMENT WILL BE FILLED WITH CONCRETE GROUT
- ALL CELLS CONTAINING REINFORCEMENT WILL BE FILLED WITH CONCRETE GROUT
- MASONRY DESIGN WITHOUT SPECIAL INSPECTION
- REQUIRED COMPRESSIVE STRENGTH:
 

NET WALL AREA	GROSS AREA
1000 PSI = fm	1350 PSI = fm
- APPROVED PROTECTIVE FINISHING WILL BE APPLIED TO THE EXTERIOR FACE OF THE CMU IN ORDER TO PREVENT PENETRATION OF MOISTURE
- MIN CMU WALL REINFORCING, UNLESS OTHERWISE NOTED ON DRAWINGS:
 

VERT.	REINFORCING
#5 @ WINDOW & DOOR JAMBS, WALL CORNERS & INTERSECTIONS, & REM. @ 48" MAX. SPAC.	
#3 @ BOND BEAMS & TOP & BOTTOM OF WALL WITH TOP & BOT. SIDES OF OPENINGS. REM @ 32" O.C.	
- ALL BAR LAPS ENCASED IN CONCRETE GROUT WILL BE 50 BAR DIAMETERS LONG
- MINIMUM DESIGN STRESS WILL BE REDUCED BY 50%
 

TESTING IS NOT REQUIRED EITHER PRIOR OR DURING THE CONSTRUCTION PHASE	PERIODIC INSPECTIONS WILL BE PERFORMED TO VERIFY TYPE OF MASONRY UNIT, PROPORTIONS OF GROUT, MORTAR TYPE, PLACEMENT OF REINF. STEEL, GROUT CONSOLIDATION, AND CONFORM. TO DWGS.
F= 2400psi Fv= 165psi	
F= 1500psi Fv= 95psi	
F= 1350psi Fv= 95psi	
F= 1200psi Fv= 100psi parallel	
F= 675psi Fc= 825psi parallel	
F= 675psi Fc= 800psi parallel	

**(L) DIMENSION LUMBER**

- MINIMUM LUMBER GRADES, UNLESS INDICATED OTHERWISE ON DRAWINGS:
 

LOCATION	GRADE	DESIGN VALUES
JOISTS	DOUG FIR #2	F= 575psi Fv= 95psi
BEAM(4" NOM)	DOUG FIR #1	F= 1150psi Fv= 95psi
BEAM(6" NOM)	DOUG FIR #1	F= 1350psi Fv= 95psi
POSTS	DOUG FIR #1	F= 2400psi Fv= 100psi parallel
STUDS @ SHEARWALLS DOUG FIR STUD		F= 675psi Fc= 825psi parallel
SILL WOOD STUDS AND PLYWOOD SHEETS		F= 675psi Fc= 800psi parallel
- WILL BE PRESERVATIVE TREATED WITH PRESERVATIVE
  - LP-2 AWPB DECAY PREVENTION STUDS AND PLY.
  - USE ONLY SEASONED MEMBERS WITH A MOISTURE CONTENT AT OR BELOW 20%.
  - AT MAIN HORIZONTAL MEMBERS PROVIDE SOLID BLOCKING OR STEEL BRACING AT SUPPORTS & 8-FT O.C.
  - PROVIDE SOLID BLOCKING AT JOIST BEARING WALL LOCATIONS.
  - HEADERS & BEAMS SPANNING 8 FT OR LESS WILL BE (2) 2X12 & BE SUPPORTED BY (2) CONT STUDS.
  - UNLESS INDICATED OTHERWISE
  - NAIL MULTIPLE STUD HEADERS TOGETHER. USE 16d @ 12" STAGGERED.
  - EXTEND ALL LOAD BEARING POSTS DOWN CONTINUOUSLY TO FOUNDATIONS/FOOTINGS.
  - WHERE FLOORS INTERRUPT CONTINUITY, ADD SOLID BLOCKING & METAL CONNECTORS.

**(PLY) PLYWOOD SYSTEMS**

- ALL PLYWOOD PANEL EDGES ON ROOF, FLOORS, AND SHEARWALLS (AS DESIGNATED ON PLANS BY A DASHED LINE ADJACENT TO WALL) BLOCK AND NAIL UNLESS FASTENED TO A FRAMING MEMBER.
- STAGGER PLYWOOD JOINTS.
- PLYWOOD DIAPHRAGM MEMBERS:
 

LOCATION	THICK.	PLY GRADE	SPAN RATING	PANEL EDGES	INTERMED. SUPPORTS	OTHER REMARKS
ROOF	5/8"	STR-2	32/16	8d @ 6"	8d @ 6"	BLOCKED EDGES
FLOOR	3/4" T&G	STR-2	48/24	8d @ 6"	8d @ 6"	GLUE & NAIL BLOCKED EDGES
WALL	1/2"	CDX-2	32/16	8d @ 4"	8d @ 6"	SEE SHEARWALL NOTES BLOCKED EDGES

**(GL) GLUE LAMINATED TIMBER**

- MAIN MEMBERS:
 

USE	DESIGNATION	DESCRIPTION
SIMPLE SPAN	2 1/2" COMB V8	F= 2400psi Fv= 165psi
MULTI-SPAN & CANT	3 1/2" COMB V8	F= 2400psi Fv= 165psi
- PRIOR TO FABRICATION MANUFACTURER WILL PROVIDE SHOP DRAWINGS AND CALCULATIONS BEARING THE SIGNATURE OF A LICENSED STRUCTURAL ENGINEER TO THE A/E FOR REVIEW.
- MANUF. WILL PROVIDE A STAMP ON EACH TIMBER INDICATING CONFORM TO AITC STANDARDS
- GLU-LAM ADHESIVE WILL BE "WET USE" AND LP-2 TREATED

**(SL) SPECIALTY TIMBER**

LVL or MLAM	MANUFACTURER	E ksi	Fb dsl	Fv dsl
	MICRO-LAM BY TRUSS JOIST CORP	2000	2800	285

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**REVISIONS**

NR	DATE	DESCRIPTION
	12 JAN 2019	ISSUE A

**McKINNON CREEK PUMP FACILITY BUILDING**

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LAKE FOREST PARK WA

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**NOTES AND DETAILS**

**SHEET OF 24 28**

DRAWN BY: CHECKED BY:

**S2**

McKINNON CREEK PUMP BLDG