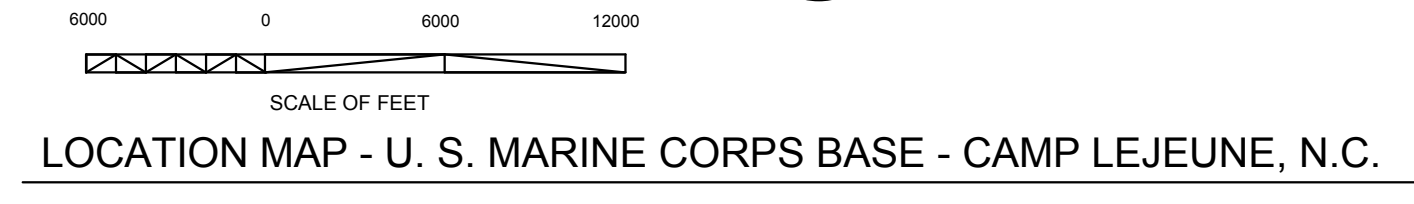
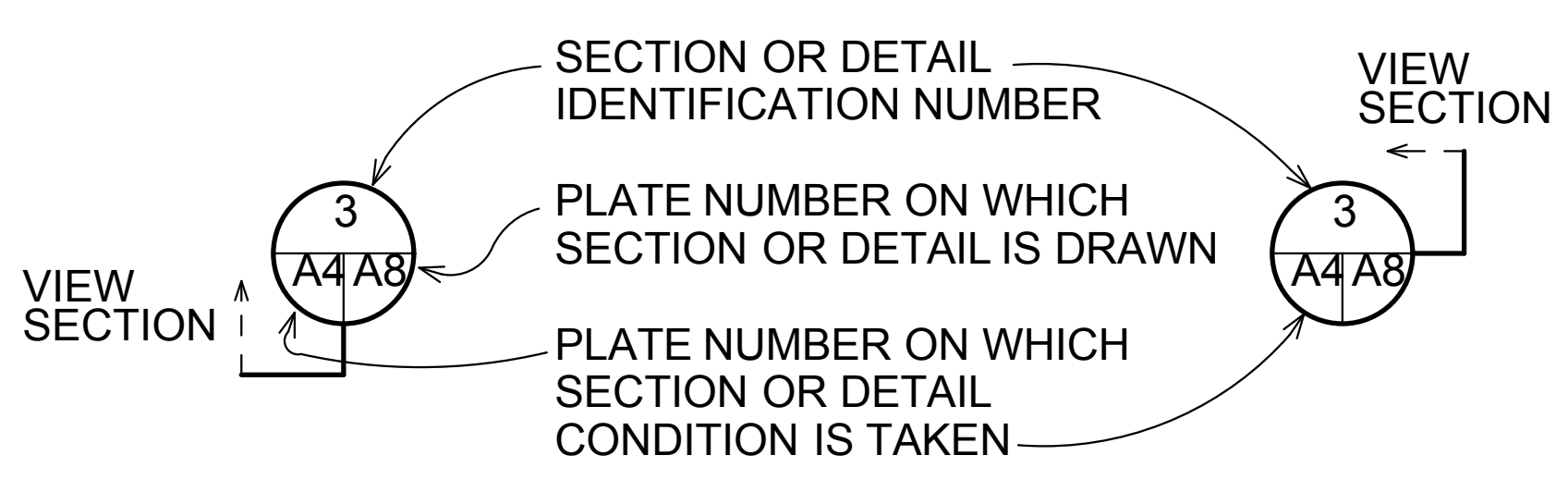


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A-1	60007908	PLANS
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E1.1	60007914	SYMBOLS AND SCHEDULES
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LEGEND



LOCATION MAP - U. S. MARINE CORPS BASE - CAMP LEJEUNE, N.C.



SYMBOL WHERE SECTION IS TAKEN



TITLE WHERE SECTION IS SHOWN

MATERIAL

	BRICK
	C.M.U. (PLAN)
	CONCRETE
	EARTH
	INSUL (RIGID)
	INSUL (BATT)
	WOOD (BLOCKING)
	WOOD (FINISH)

A.C.	AIR CONDITIONING
A.B.	ANCHOR BOLT
A.D.	AREA DRAIN
A.F.F.	ABOVE FINISH FLOOR
A.H.U.	AIR HANDLING UNIT
ALT.	ALTERNATE
ALUM.	ALUMINUM
AL. & GL.	ALUMINUM & GLASS
AMP.	AMPERES
A.O.	ACCESS OPENING
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
A.T.	ASPHALT TILE
A.T.C.	ACOUSTICAL TILE CEILING
A & G	ASPHALT & GRAVEL
BAL.	BALANCE
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
B.M.	BENCH MARK
BOT.	BOTTOM
BRG.	BEARING
BRK.	BRICK
B.S.	BOTH SIDES
B.T.U.H.	BRITISH THERMAL UNIT/HR
B.W.	BOTH WAYS

CAB.	CABINET
CAP.	CAPACITY
C.B.	CIRCUIT BREAKER
C.BK.	CONCRETE BLOCK
C.D.	CEILING DIFFUSER
CEM.	CEMENT
C.F.M.	CUBIC FEET/MINUTE
C.H.	CEILING HEIGHT
C.I.	CAST IRON
CIRU.	CIRULATING
C.J.	CONTROL JOINT
CK'D	CHECKED
CKT.	CIRCUIT
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
CLSR.	CLOSER
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDENSATE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.JT.	CONTRACTION JOINT

CPT.	CARPET
CRSE.	COURSE
CT.	CERAMIC TILE
CTB.	CERAMIC TILE BASE
C TO C	CENTER TO CENTER
CL	CENTER LINE
D.A.	DOUBLE ACTING
DEP.	DEPRESSION
DEPT.	DEPARTMENT
DET.	DETAIL
DIAM.	DIAMETER
DIFF.	DIFFUSER
DIM.	DIMENSION
DISC.	DISCONNECT
D.J.	DUMMY JOINT
D.L.	DOCK LEVELER
DN.	DOWN
DR.	DOOR
D.S.	DOWN SPOUT
DWG.(S)	DRAWING(S)
EA.	EACH
E.B.	EXPANSION BOLT
E.C.	EMPTY CONDUIT
E.F.	EACH FACE
E.F.(HVAC)	EXHAUST FAN
ELEC.	ELECTRICAL
ELEV.	ELEVATION
ENG.	ENGINEER
ENT.	ENTRANCE
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.C.	ELEC. WATER COOLER
EXH.	EXHAUST
EXIST.	EXISTING
EXP.JT.	EXPANSION JOINT
EXP.	EXPOSED
EXT.	EXTERIOR

F.A.	FIRE ALARM
F.B.	FACE BRICK
F.C.	FLEXIBLE CONNECTION
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.C.	FIRE EXTINGUISHER CABINET
FIN.	FINISH
FL.	FLOOR
FLOUR.	FLOURESCENT
FT.	FOOT - FEET
FTG.	FOOTING
F.W.	FIELD WELD
F/C	FACE OF CONCRETE
F/F	FACE OF FINISH
F/M	FACE OF MASONRY

G.A.	GAGE, GAUGE
GAL.	GALLON
GALV.	GALVANIZED
G.F.E.	GOV'T. FURNISHED EQUIP.
GL.	GLASS
GND.	GROUND
GOV'T.	GOVERNMENT
G.P.H.	GALLONS/HOUR
G.P.M.	GALLONS/MINUTE
GR.	GRILLE
G.W.B.	GYPNUM WALL BOARD
GYP.BD.	GYPNUM BOARD
GYP.	GYPNUM
H.	HIGH
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
H.D.	HEAVY DUTY
HDW.	HARDWARE
HGT.	HEIGHT
H.L.D.	HIGH LIFT DOOR
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
HR.	HOUR
HT.	HEIGHT
HTG.	HEATING
HTR.	HEATER
H. & V.	HEATING & VENTILATION
HYD.	HYDRANT

I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
I.F.	INSIDE FACE
IN.	INCH, INCHES
INCAND.	INCANDESCENT
INSUL.	INSULATION
INT.	INTERIOR

J.B.	JUNCTION BOX
JCT.	JUNCTION
JT.	JOINT
K.	KIP(S)
KPL.	KICK PLATE
KVA.	KILOVOLT
KW.	KILOWATT
LAM.	LAMINATE
LAV.	LAVATORY
LB.	POUND
LBL.	LABEL
LG.	LONG
L.P.	LOW POINT
L.P.(ELEC)	LIGHTING PANEL
LTG.	LIGHTING
LTL	LINTEL
LVR.	LOUVER
M.	MARBLE
MAINT.	MAINTENANCE
MAS.	MASONRY
MAT.	MATERIAL
MAX.	MAXIMUM
M.D.P.	MAIN DISTRIBUTION PNL.
MECH.	MECHANICAL
M.G.T.	MATT GLAZE TILE
M.H.	MAN HOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MT.	METAL THRESHOLD
MTD.	MOUNTED
MTG.	MOUNTING
MTL.	METAL
M.V.	MECH. VENTILATION
MVBL.	MOVEABLE

N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OVERALL
O.A.(HVAC)	OUTSIDE AIR
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
O.H.	OVERHEAD
O.H.D.	OVERHEAD DOOR
OL.	OVERLOAD
OPER.	OPERATOR
OPNG.	OPENING
OPP.	OPPOSITE
O.S.D.	OPEN SIGHT DRAIN
P.	PAPER
PART.	PARTITION
P.C.B.	PAINTED CONC. BLOCK
PER.	PERIMETER
PERS.	PERSONNEL
P.F.	PARTICLE FILLED
P.G.B.	PAINTED GYP. BOARD
PL.	PLATE
PLAS.	PLASTER
PLBG.	PLUMBING
PLYWD.	PLYWOOD
P.M.	PRESSED METAL
PNL.	PANEL
PNT.	PAINL
PRESS.	PRESSURE
PROP.	PROPERTY
P.S.F.	POUNDS/SQ.FT.
P.S.I.	POUNDS/SQ.IN.
P.S.I.G.	POUNDS/SQ.IN.GAUGE
PT.	POINT
PTD.	PAINTED

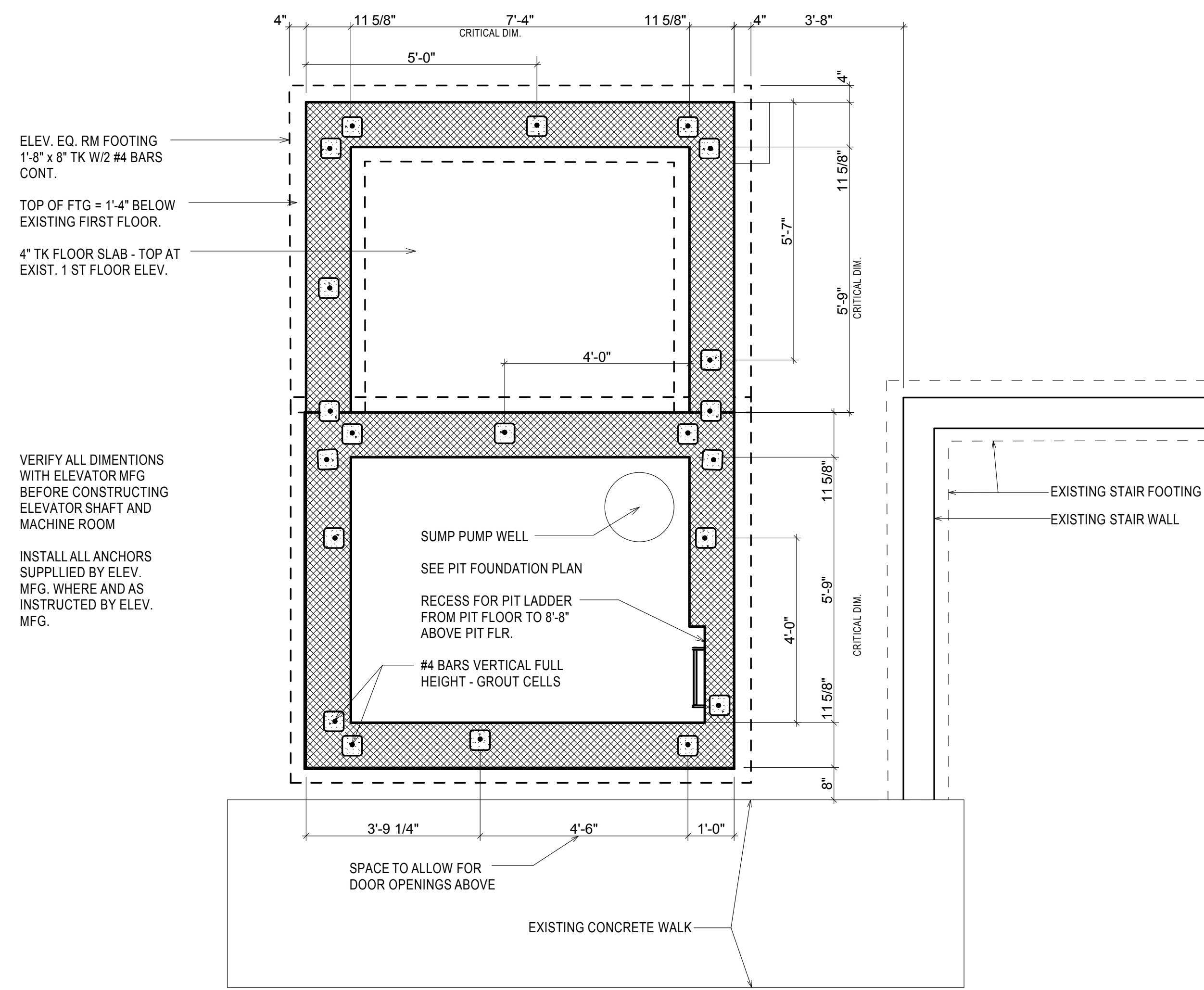
QTR.	QUARTER
QUAN.	QUANTITY
R	RISER
R.A.	RETURN AIR
RAD.	RADIUS
RD.	ROUND
R.D.	ROOF DRAIN
REC'D	RECESSED
RECIRC	RECIRCULATING
RECP.	RECEPTABLE
REF.	REFERENCE
REG.	REGISTER
REINF.	REINFORCING
REQ'D	REQUIRED
RET.	RETURN
REV.	REVISION
R.F.	RIGID FRAME
R.G.	RETURN GRILLE
R.L.	RAIN LEADER
RM.	ROOM
R.P.M.	REVOLUTION/MINUTE
S.	SUPPLY
S.A.	SUPPLY AIR
S.C.	SOLID CORE
SCH.	SCHEDULE
S.D.	STANDARD DUTY
SECT.	SECTION
SERV.	SERVICE
SHT.	SHEET
S.J.	SLIP JOINT
SPEC.	SPECIFICATION
SPR.	SPRINKLER
SQ.FT.	SQUARE FOOT
SQ.IN.	SQUARE INCH
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE

STR.	STRUCTURE
STRUC.	STRUCTURAL
SUSP.	SUSPENDED
SW.	SWITCH
T	TREAD
TEL.	TELEPHONE
TEMP.	TEMPERATURE
THK.	THICKNESS
THD.	THRESHOLD
TOIL.	TOILET
TYP.	TYPICAL
V.	VENT
V.A.T.	VINYL ASBESTOS TILE
V.B.	VINYL BASE
V.C.T.	VINYL COMPOSITION TILE
VENT.	VENTILATION
VERT.	VERTICAL
VTR.	VENT THRU ROOF
W	WATT
W/	WITH
W.B.	WOOD BASE
W.C.	WATER CLOSET
WD.	WOOD
W.D.	WINDOW DIMENSION
WF	WIDE FLANGE
W.G.	WIRE GLASS
W.M.	WIRE MESH
WP.	WEATHERPROOF
WSCT.	WAINSCOT
WTR.	WATER
W.W.F.	WELDED WIRE FABRIC

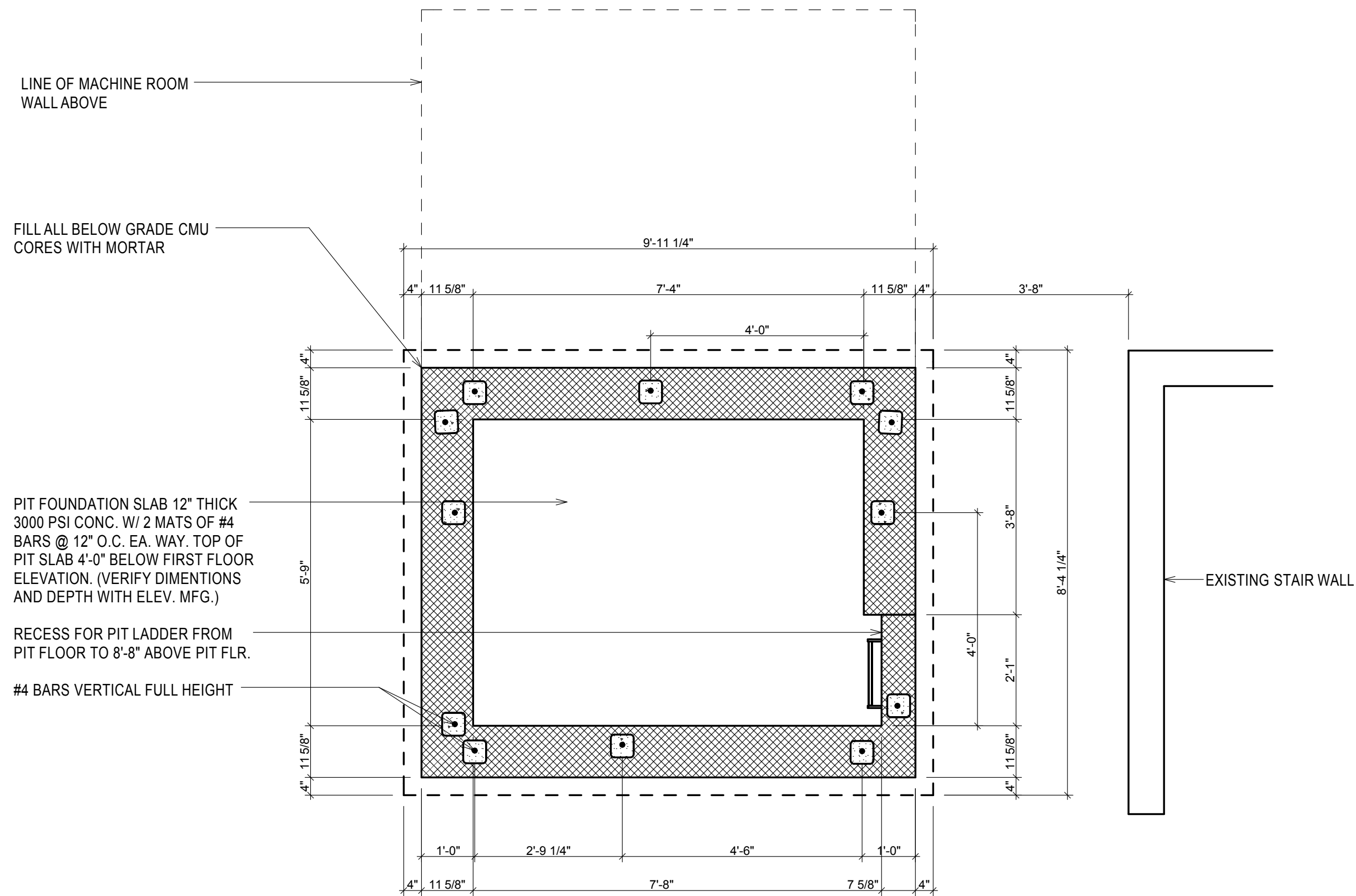
STANDARD ABBREVIATIONS

	T-1	
	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA ELEVATOR CONSTRUCTION BUILDING 897 MCB, CLNC	
DESIGNED BY: JSK DRAWN BY: ADB CHECKED BY: JSK SUBMITTED BY: ADB DESIGN DIR.: APPROVED: PWO OR OICC DATE: SATISFACTORY TO: DATE:	TITLE PAGE SIZE: F CODE IDENT NO: 80091 NAVFAC DRAWING NO. 60007907 CONST. CONTR. NO. N40085-10-B-0213 SCALE: GRAPHIC SPEC. 05-10-0213 SHEET 1 OF 9	

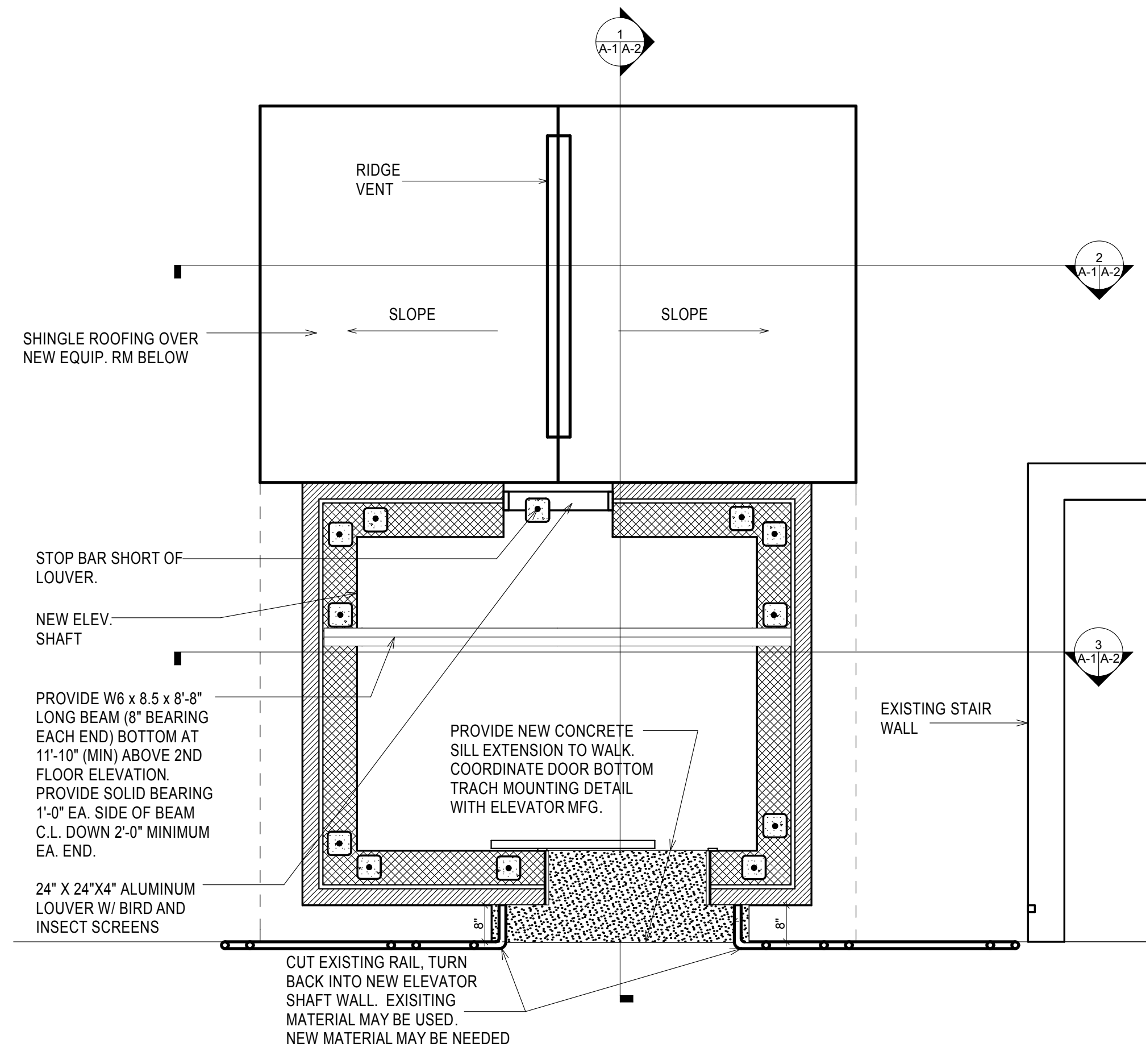
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



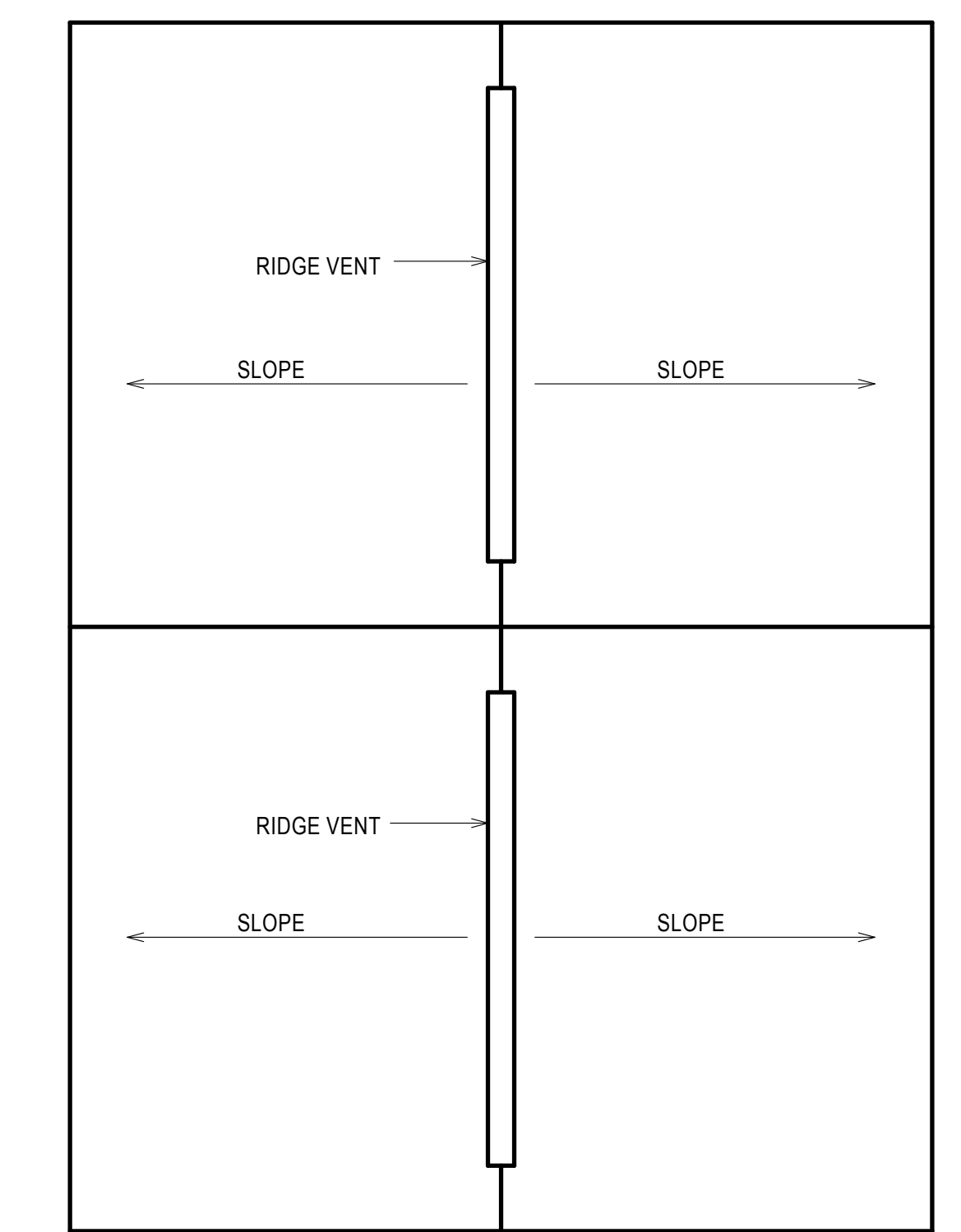
1 ELEV PIT PLAN & EQ. RM. FOUNDATION
SCALE: 1/2" = 1'-0"



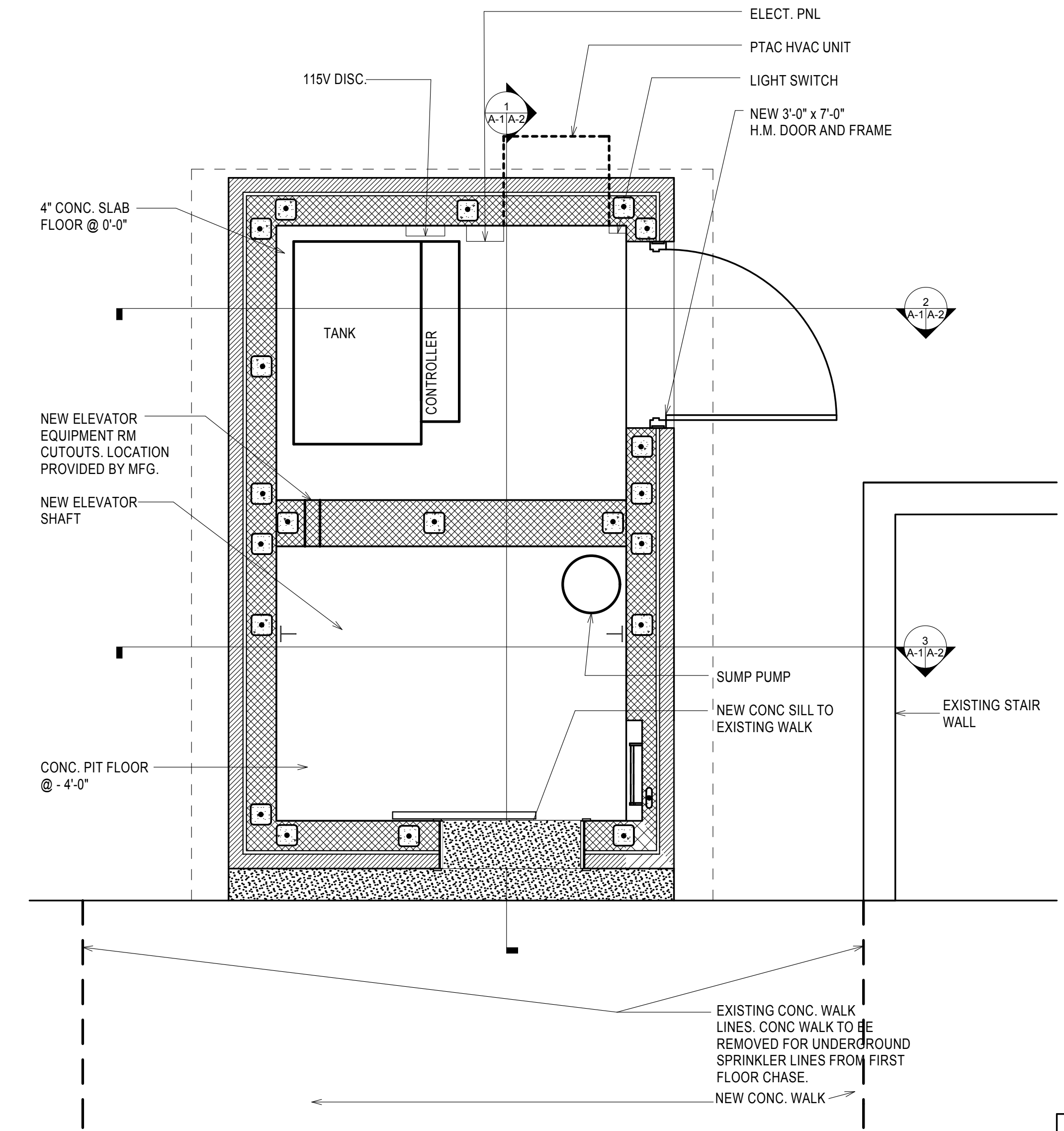
4 PIT FOUNDATION
SCALE: 1/2" = 1'-0"



3 2ND FL PLAN & EQ. RM. ROOF PLAN
SCALE: 1/2" = 1'-0"



5 ELEVATOR SHAFT ROOF PLAN
SCALE: 1/2" = 1'-0"

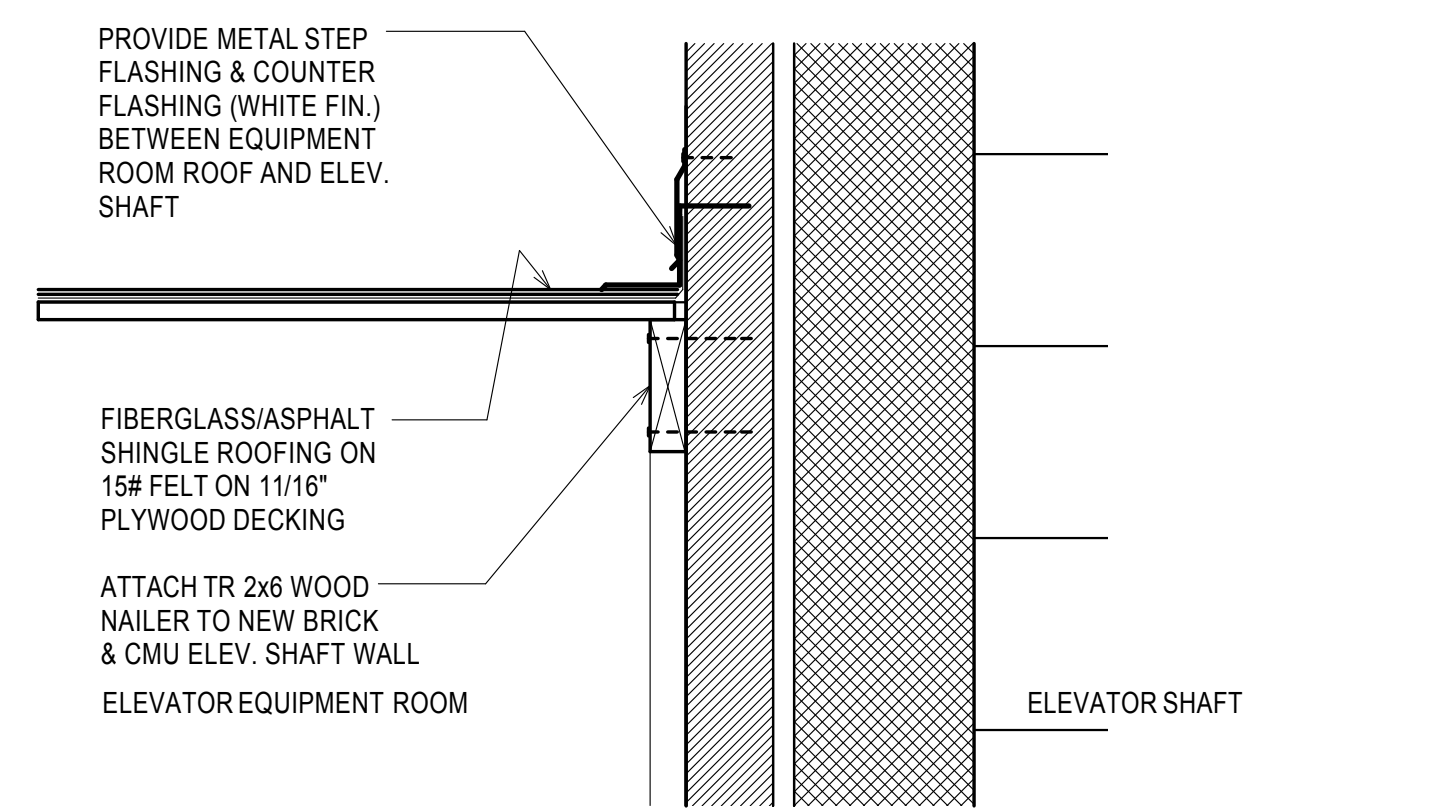


2 1ST FLOOR PLAN
SCALE: 1/2" = 1'-0"

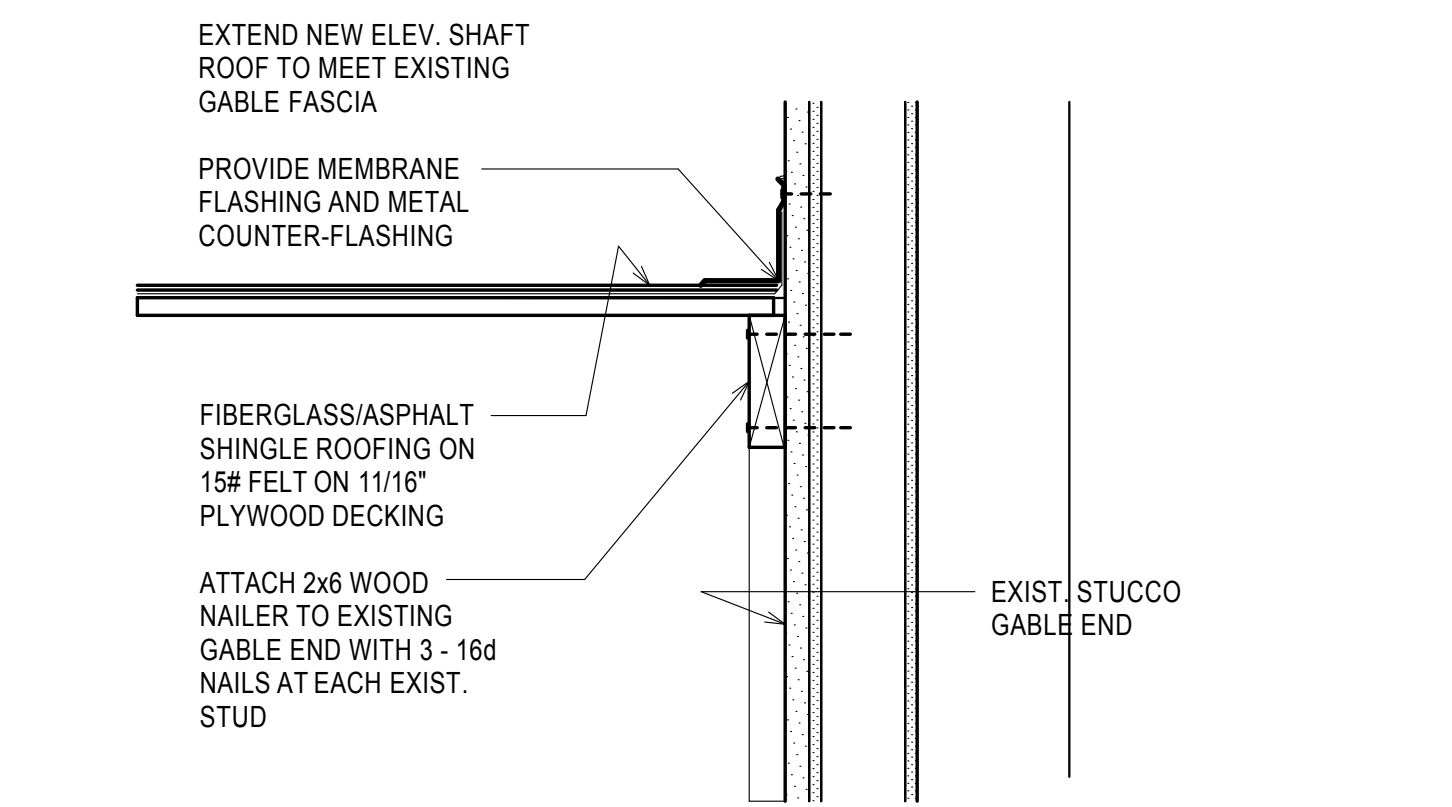
- GENERAL NOTES:
- VERIFY ALL SHAFT, PIT AND EQUIPMENT ROOM DIMENSIONS WITH THE ELEVATOR EQUIPMENT MANUFACTURER BEFORE CONSTRUCTION.
 - COORDINATE ALL ELECTRICAL REQUIREMENTS, ATTACHMENT POINTS, OPENINGS, SILL CONSTRUCTION, REQUIRED PIPING SLEAVES AND ANY OTHER REQUIREMENTS.
 - CONSTRUCT SHAFT AND MACHINE ROOM READY FOR ELEVATOR & EQUIPMENT INSTALLATION AND TO THE SATISFACTION OF THE ELECTRICAL INSTALLER.
 - PROVIDE 2 - 6" x 6" CUTOUTS FOR TO AND FROM OIL PIPING AND ELECTRICAL TROUGH AT EXACT LOCATION REQUIRED BY ELEVATOR MFG.
 - EQUIPMENT ROOM HOLLOW METAL DOOR HARDWARE = 3 SSBH HINGES, CLOSER, STRIKE, LOCKSET, THRESHOLD, WEATHERSTRIP SET AND FRAME MOUNTED RAIN DRIP.
 - ELEVATOR EQUIPMENT 2000 LB @ 100 F.P.M. SIMPLEX. MACHINE ROOM IS LOCATED TO THE REAR OF SHAFT.
 - SEE F-1 AND F-2 SPRINKLER DRAWINGS.

	A-1	
	Kanoy Architecture, P.A. ARCHITECTS • PROGRAMMERS • MASTER PLANNERS 1995 S. Jupiter Lake Road West End, North Carolina 27176 Phone: 910-215-5885 • Fax: 910-215-5886	
4/15/2011	DESIGNED BY: JSK DRAWN BY: ADB CHECKED BY: JSK SUBMITTED BY: ADB DESIGN DIR.:	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA ELEVATOR CONSTRUCTION BUILDING 897 MCB, CLNC
	APPROVED: PWO OR OICC DATE: SATISFACTORY TO: DATE: OF:	PLANS SIZE CODE IDENT NO F 80091 NAVFAC DRAWING NO. 60007908 CONST. CONTR. NO. N40085-10-B-0213 SCALE: GRAPHIC SPEC. 05-10-0213 SHEET 2 OF 9

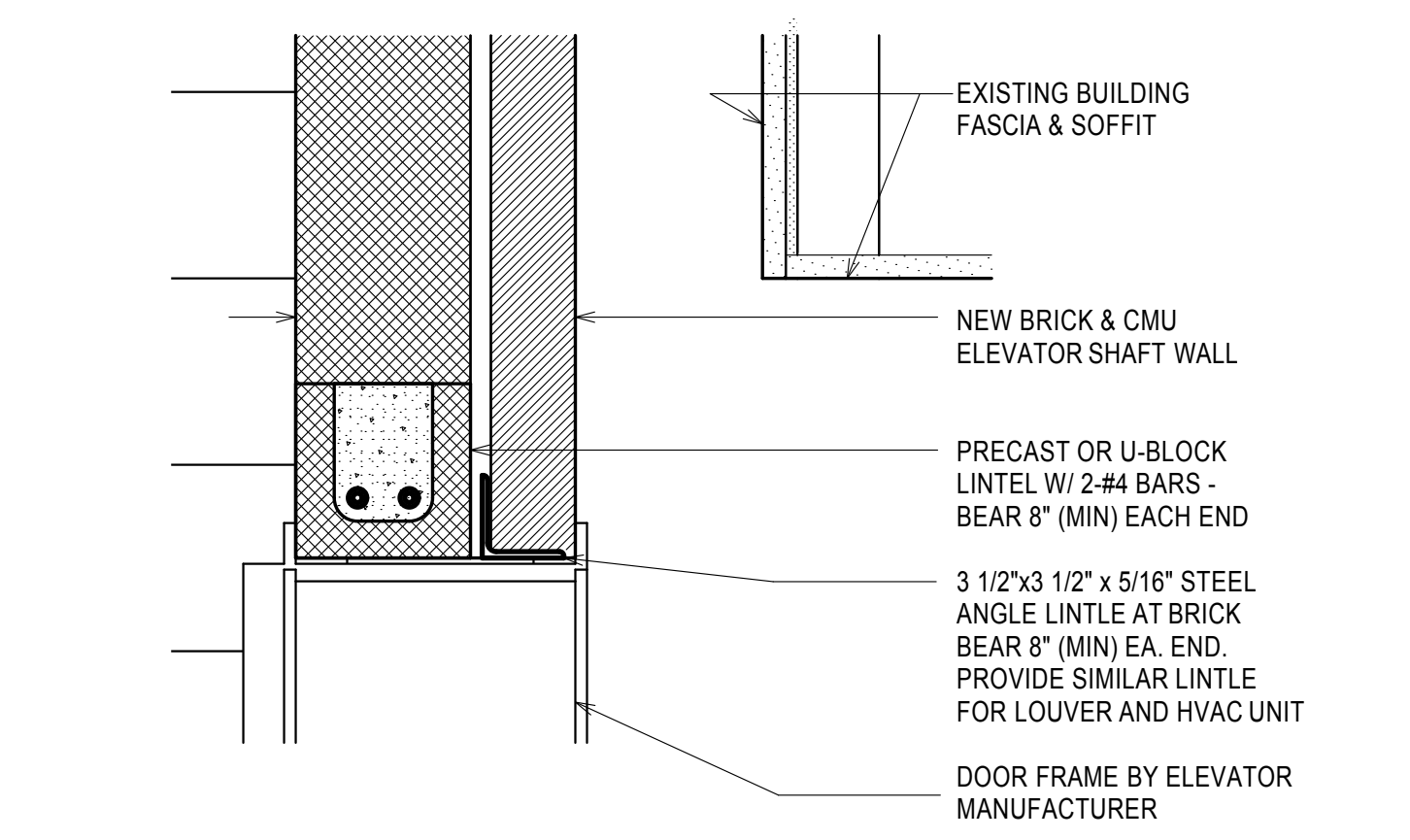
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



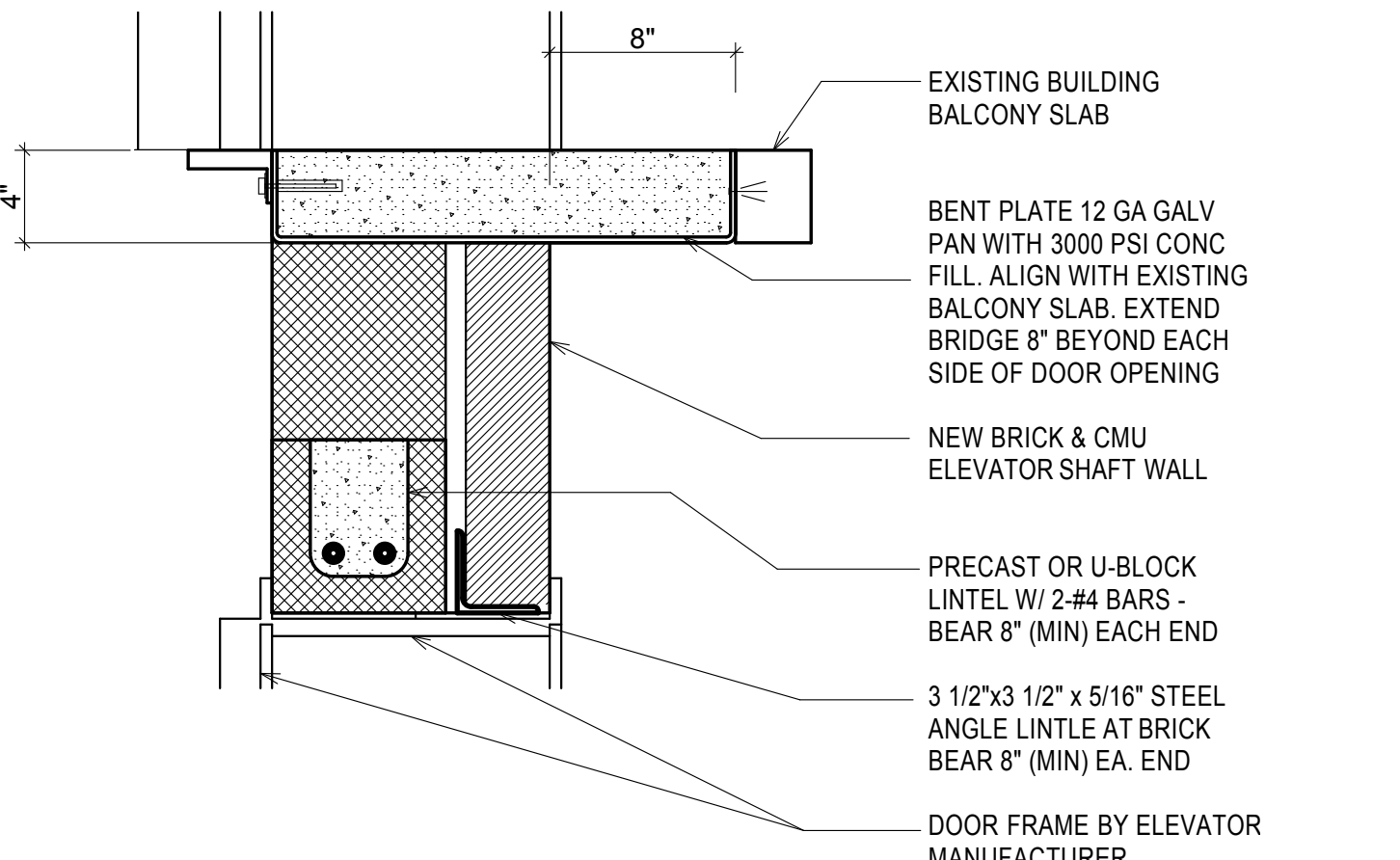
7 EQ. RM. ROOF TO ELEV. SHAFT
SCALE: 1 1/2" = 1'-0"



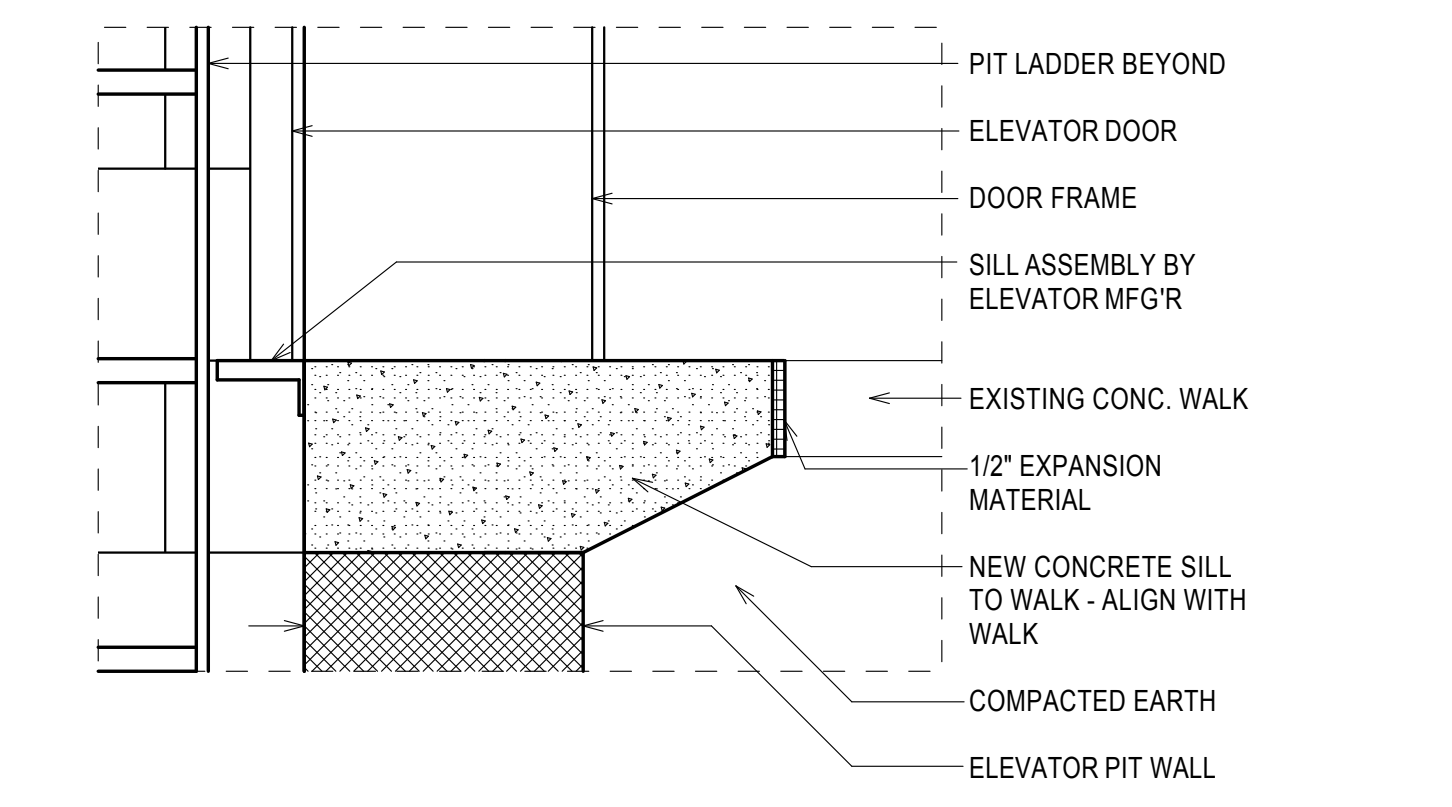
6 SHAFT ROOF AT EXIST GABLE END
SCALE: 1 1/2" = 1'-0"



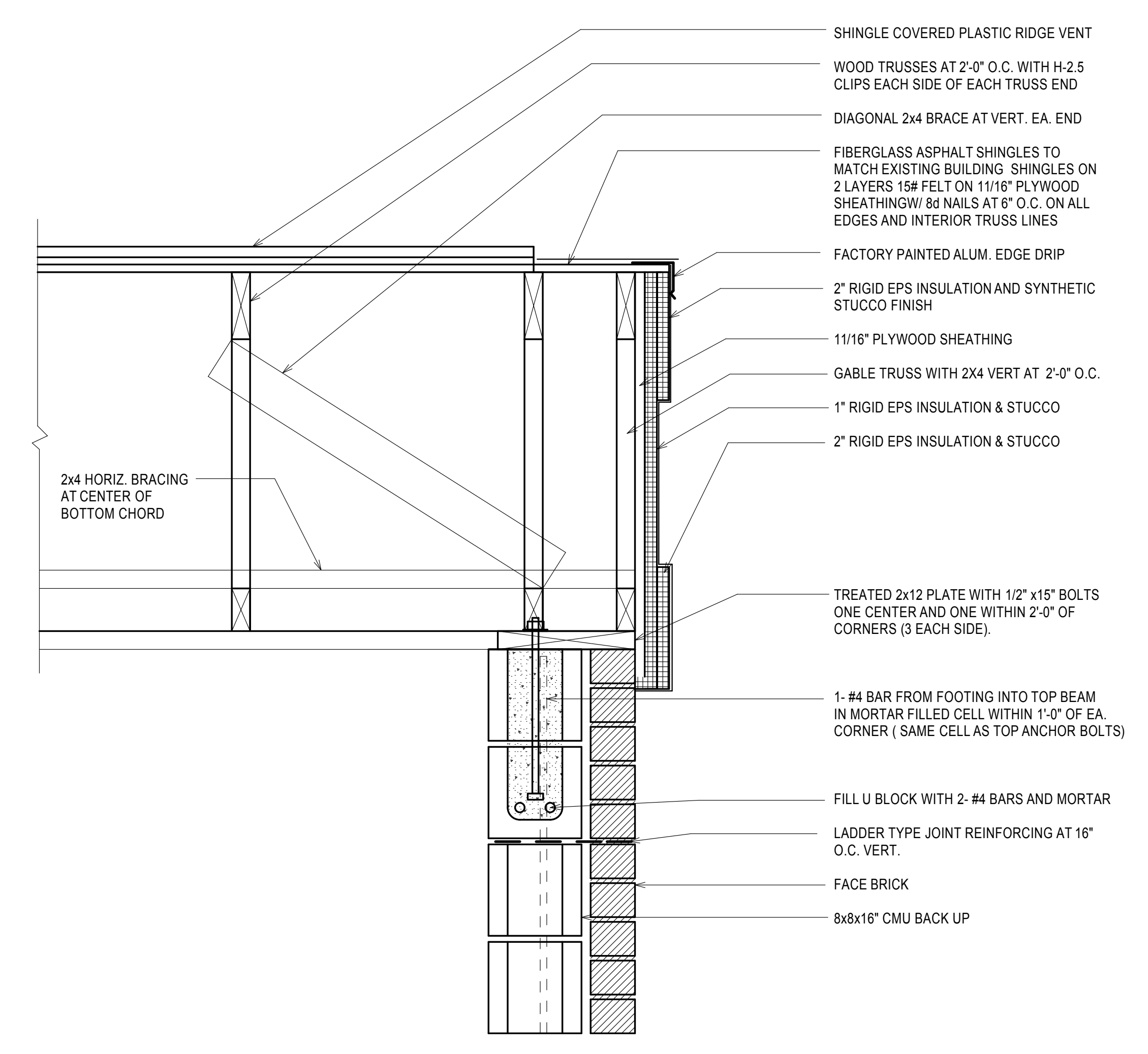
5 2nd FLOOR DOOR HEAD
SCALE: 1 1/2" = 1'-0"



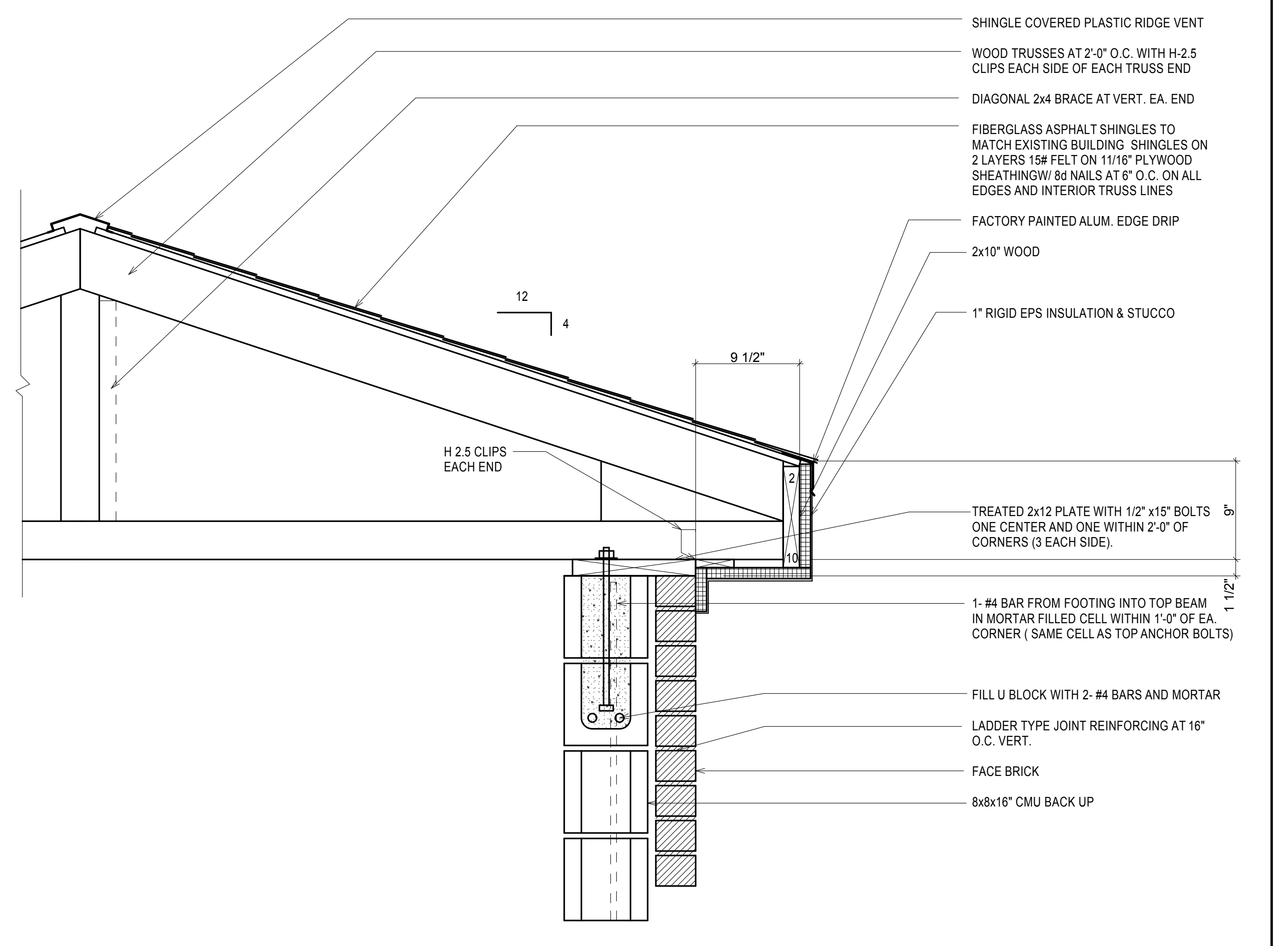
4 2nd FLOOR ELEVATOR DOOR SILL
SCALE: 1 1/2" = 1'-0"



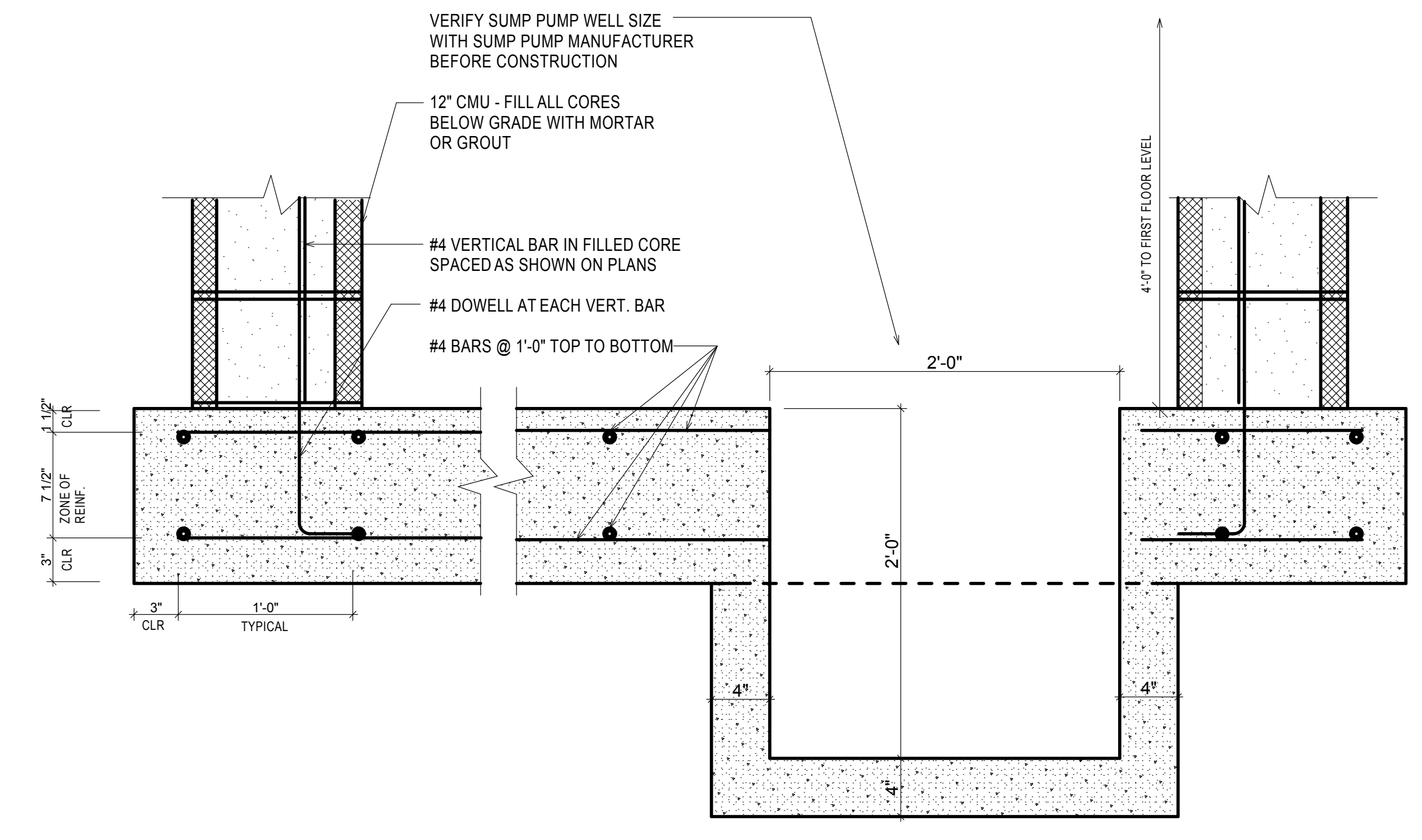
3 1st FLOOR ELEVATOR DOOR SILL
SCALE: 1 1/2" = 1'-0"



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



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



8 SUMP PUMP DETAIL
SCALE: 1 1/2" = 1'-0"

	Kanoy Architecture, P.A. <small>ARCHITECTS • PROGRAMMERS • MASTER PLANNERS</small> 1995 S. Jupiter Lake Road West End, North Carolina 27176 Phone: 910-215-5885 • Fax: 910-215-5886		A-3 DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA ELEVATOR CONSTRUCTION BUILDING 897 MCB, CLNC
	DESIGNED BY: JSK CHECKED BY: ADB SUBMITTED BY: JSK DESIGN DIR.: ADB	APPROVED: PWO OR OICC DATE: _____ SATISFACTORY TO: _____ DATE: _____ OF: _____	

GENERAL NOTES:

CONTRACTOR SHALL FIELD VERIFY ALL RELEVANT DIMENSIONS, CLEARANCES, OBSTRUCTIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATING OR INSTALLING SPRINKLER SYSTEM PIPING AND EQUIPMENT. WHERE THE GENERAL LOCATIONS OF PIPING, COMPONENTS AND EQUIPMENT ARE INDICATED, THE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. IF IT IS FOUND NECESSARY TO CHANGE THE LOCATION, POSITION, OR ORIENTATION OF ANY WORK TO ACCOMMODATE CONDITIONS AT THE BUILDING, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER AND AS DIRECTED BY THE ENGINEER.

THESE DRAWINGS ARE TO BE WORKED IN CONCERT WITH THE PROJECT SPECIFICATIONS AND NFPA 13, 2007 EDITION.

SUPPORT OF OVERHEAD PIPING SHALL BE BY THE USE OF PIPE HANGERS SUSPENDED FROM THE BUILDING STRUCTURE.

ABOVE GROUND PIPE SHALL BE SCHEDULE 40, GALVANIZED, BLACK STEEL AND LISTED FOR FIRE PROTECTION SERVICE. MINIMUM BRANCH LINE SIZE IS TO BE 1-1/4". REFER TO SPECIFICATION.

UNDERGROUND PIPE SHALL BE SCHEDULE 80 PLASTIC AND LISTED FOR FIRE PROTECTION SERVICE. MINIMUM DIAMETER IS TO BE NO LESS THAN 2". REFER TO SPECIFICATION.

SPRINKLERS ARE TO BE QUICK RESPONSE SPRINKLERS.

SPLASH BOARDS ARE TO BE PROVIDED AT AUXILIARY DRAIN DISCHARGE UNLESS DISCHARGE IS TO A PAVED SURFACE.

SPRINKLER DESIGN SUMMARY:

AN EXPANSION TO AN EXISTING WET PIPE INSTALLATION IS TO BE PROVIDED AS INDICATED ON THE DRAWINGS. THE EXPANSION IS TO COMPLY WITH THE FOLLOWING CRITERIA:

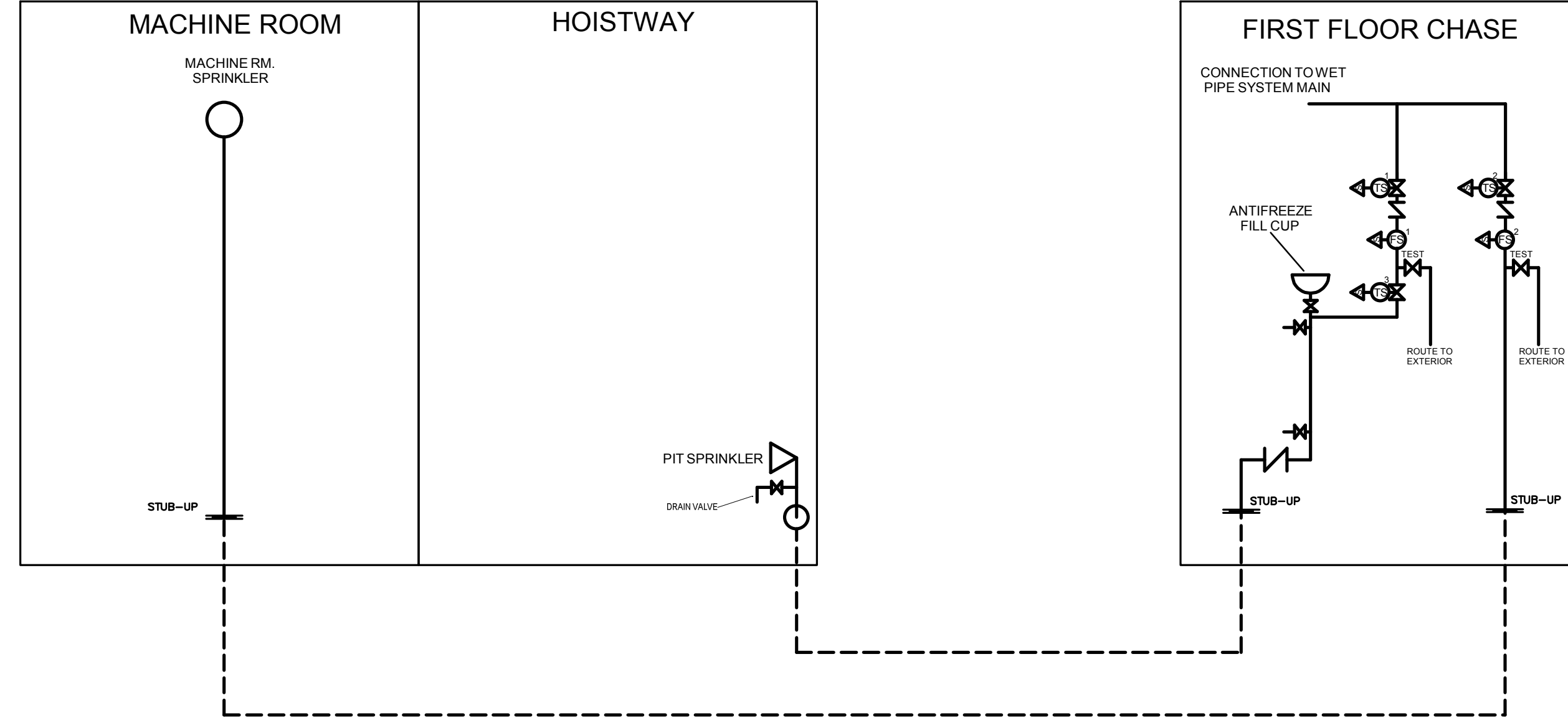
ORDINARY HAZARD GROUP 1 - AREA SHALL BE DESIGNED TO DELIVER 0.15 GPM/1500 SQ FT PRIOR TO CODE ALLOWED OR REQUIRED ADJUSTMENTS.

DIRECTIONS TO CONTRACTOR

JOB DEFINITION
THE JOB INVOLVES EXPANDING AN EXISTING WET PIPE SPRINKLER SYSTEM TO PROVIDE PROTECTION OF AN ELEVATOR INSTALLATION. A TOTAL OF TWO SPRINKLERS ARE TO BE INSTALLED, ONE OF WHICH WILL BE SERVED BY AN ANTIFREEZE ARRANGEMENT. WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS PROVIDED.

CONSTRAINTS
CARE SHALL BE TAKEN TO ENSURE THAT THE EXISTING SYSTEM REMAINS IN SERVICE EXCEPT FOR THE BRIEF TIME REQUIRED TO CONNECT THE NEWLY INSTALLED PIPING. SCHEDULE ANY SPRINKLER SYSTEM DOWN TIME FOR THE NEW CONNECTION WITH THE FIRE CHIEF 30 DAYS IN ADVANCE.

SPRINKLER SYSTEM SCHEMATIC



LEGEND

SIDEWALL SPRINKLER	◁
UPRIGHT SPRINKLER	○
GATE VALVE	⊗
CHECK VALVE	∇
BALL VALVE	⊙
FLOW SWITCH	⊕
TAMPER SWITCH	⊖
SIGNALING SYSTEM INTERFACE	⊗

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

PENETRATION SEAL DETAILS

SYSTEM NO. C-AJ-1175
F RATING -- 2 HR
T RATING -- 0 HR

SECTION A-A

- FLOOR OR WALL ASSEMBLY -- MIN. 2-1/2 IN THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 Pcf) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX. DIAM. OF OPENING IS 10 IN.
SEE CONCRETE BLOCKS (#GATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- STEEL SLEEVE -- #OPTIONAL-- NO. 10 IN DIAM (#OR SMALLER) SCHEDULE 10 (#OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX. 2 IN. FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.
- THROUGH PENETRANT -- ONE METALLIC PIPE TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRE STOP STOP SYSTEM. MAX. ANNULAR SPACE BETWEEN PIPE AND EDGE OF THROUGH OPENING NOT TO EXCEED 1-3/8 IN. MIN. ANNULAR SPACE BETWEEN PIPE AND EDGE OF THROUGH OPENING IS ZERO IN. (#POINT CONTACT). PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES MAY BE USED:
A. STEEL PIPE -- NOM 8 IN. DIAM (#OR SMALLER) SCHEDULE 10 (#OR HEAVIER) STEEL PIPE.

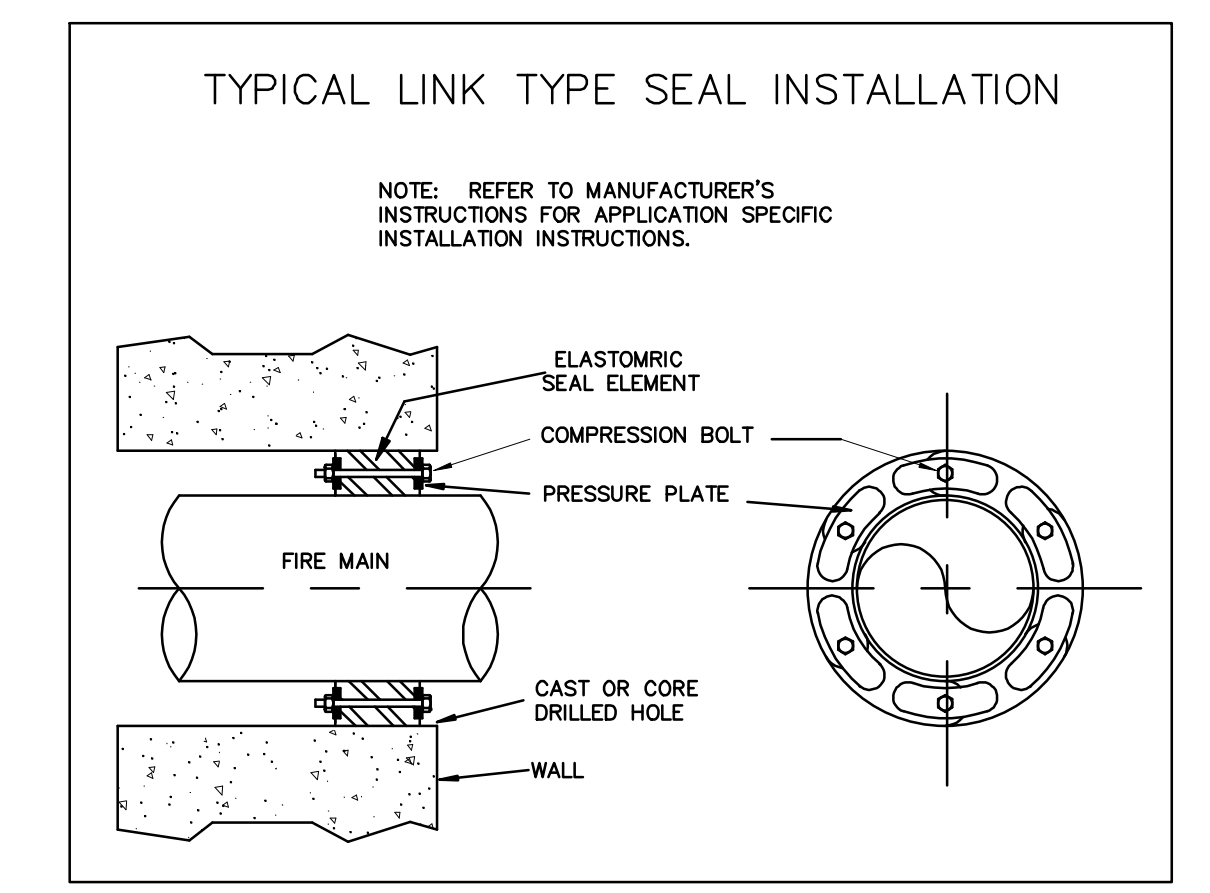
FIRE STOP CONFIGURATION A

- PACKING MATERIAL -- MIN 1 IN. THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP OR BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF SOLID CONCRETE WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (#ITEM 4). WHEN WALL IS CONSTRUCTED OF CONCRETE BLOCK, PACKING MATERIAL IS TO BE INSTALLED ON BOTH SIDES OF WALL ASSEMBLY.
- FILL VOID OR CAVITY MATERIAL -- CAULK* -- APPLIED TO FILL THE ANNULAR SPACE TO A MIN. DEPTH OF 1/2 IN. FLUSH WITH THE TOP OR BOTTOM SURFACE OF THE FLOOR OR EITHER SURFACE OF THE SOLID CONCRETE WALL. A MIN. OF 1/4 IN. DIAM. BEAD OF CAULK SHALL BE APPLIED TO THE FLOOR OR WALL SURFACE WHERE THE PIPE IS INSTALLED IN POINT CONTACT WITH THE EDGE OF THE THROUGH OPENING. WHEN WALL IS CONSTRUCTED OF CONCRETE BLOCK, CAULK TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY.

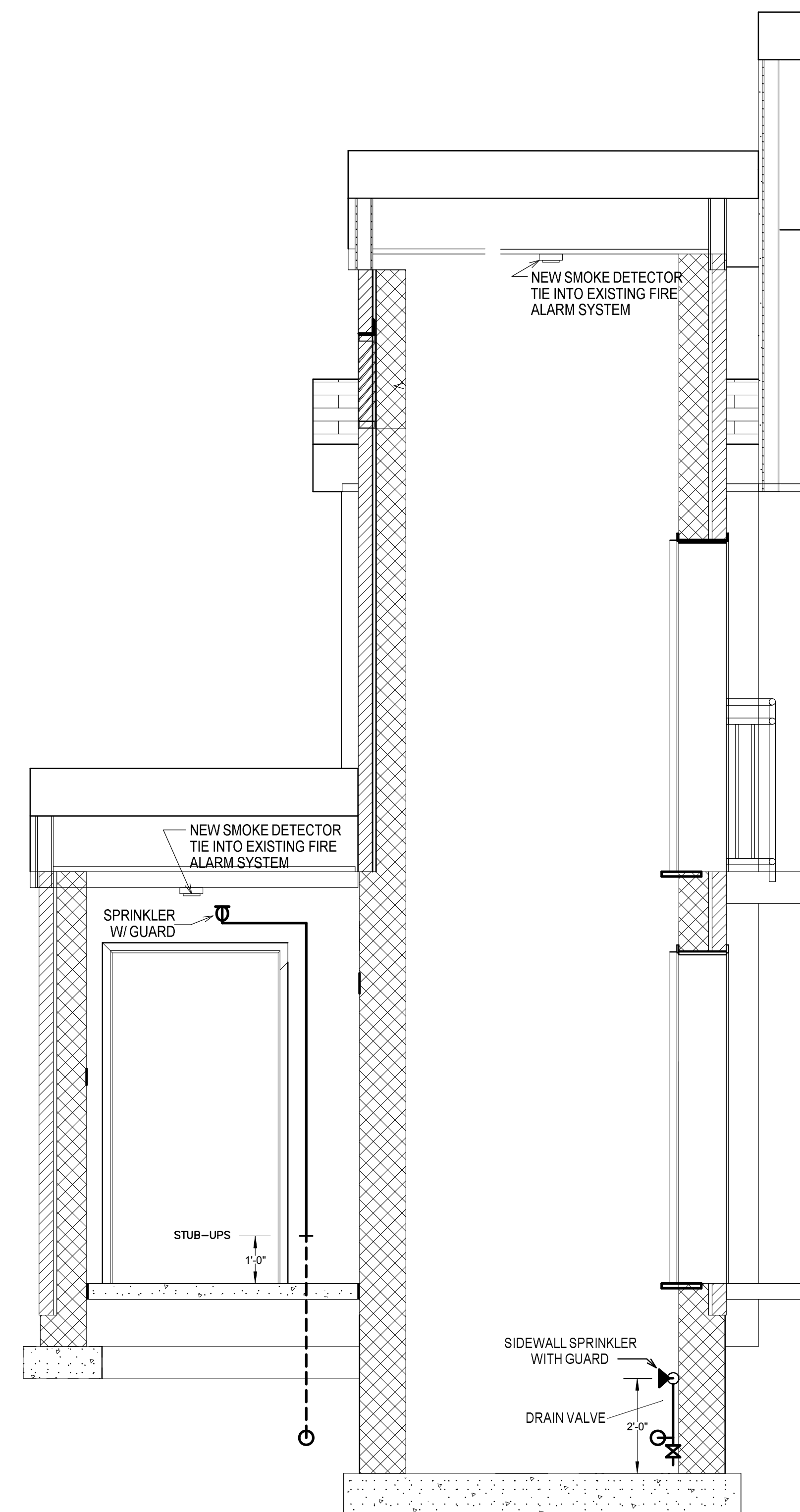
MINNESOTA MINING & MANUFACTURING CO. -- CP 25WB+

* BEARING THE UL CLASSIFICATION MARKING.

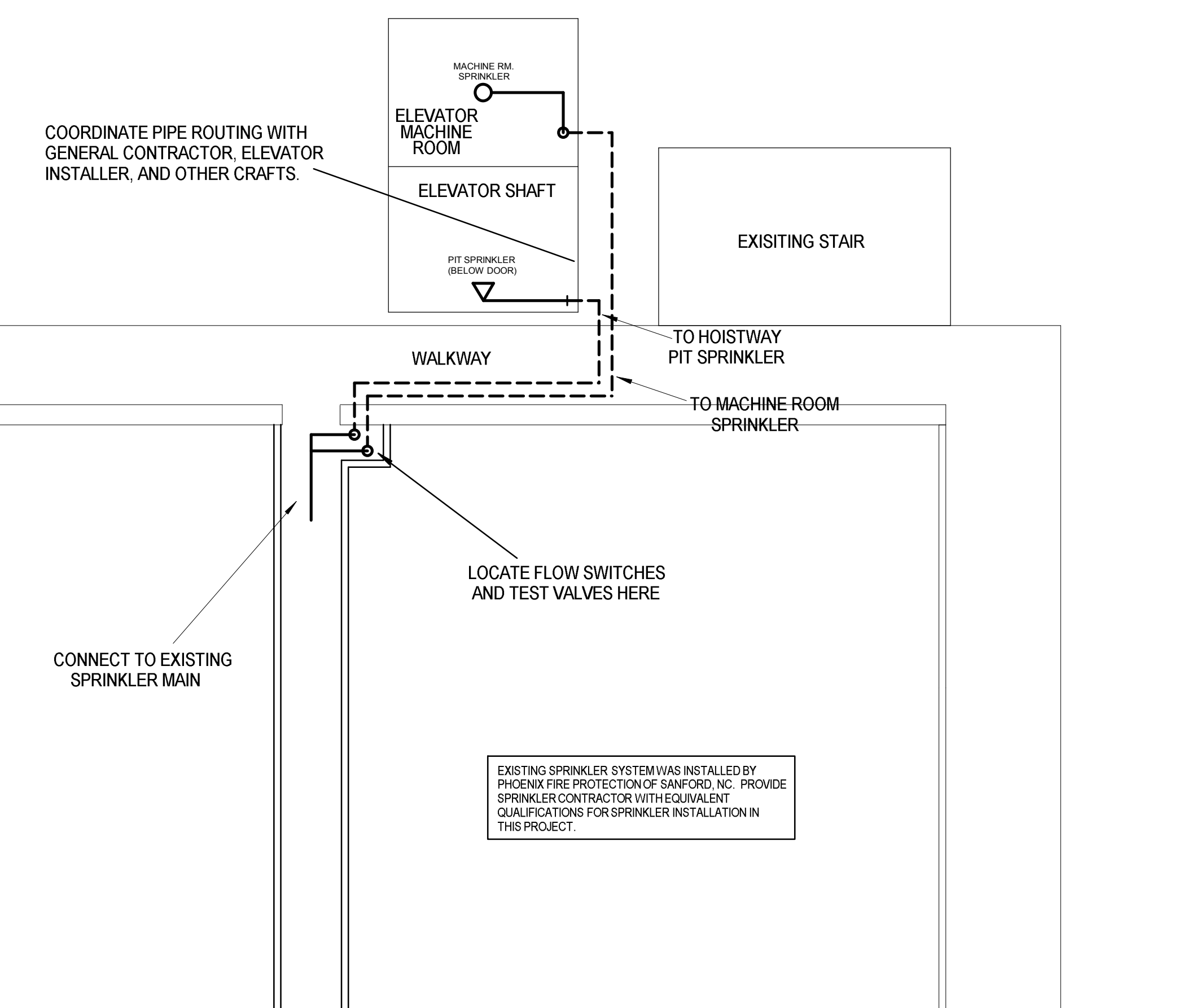
NOTE: THE FOREGOING HAS BEEN EDITED TO DELETE REFERENCE TO PENETRANT MATERIALS WHICH ARE EXCLUDED FROM USE BY THE SPRINKLER AND STANDPIPE SYSTEM SPECIFICATIONS.



NOTE: LINK TYPE EPDM SEALS MARKETED BY PIPELINE SEAL AND INSULATOR (PSI), INC, FLEXCRAFT INDUSTRIES, BWM COMPANY, OR ENGINEER APPROVED EQUAL ARE TO BE INSTALLED WHERE INDICATED ON THE DRAWING. THIS INSTALLATION IS FOR THE PURPOSE OF PROVIDING WATER TIGHT SEALING OF THE ELEVATOR PIT. PENETRATION IS TO CONSIST OF Poured IN PLACE SLEEVE OR CORE BORED PENETRATION. COORDINATE LOCATION WITH GENERAL CONTRACTOR.



SECTION 1
SCALE: 1/2" = 1'-0"
0 2 4 6 8



2
F-1
FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"
0 1' 2' 4' 6' 8'

	ROBERT E. PORTERFIELD, PE CONSULTING ENGINEER FIRE PROTECTION 213 RIVER DRIVE SOUTHPORT, NC 28461 PHONE/FAX: 910-457-0999 reporterfield@southport.net	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA ELEVATOR CONSTRUCTION BUILDING 897 MCB, CLNC	F-1
	DESIGNED BY: REP DRAWN BY: REP CHECKED BY: REP SUBMITTED BY: ADB DESIGN DIR:	APPROVED: PWO OR OICC DATE: SATISFACTORY TO: DATE:	SPRINKLER SYSTEM PLANS SIZE CODE IDENT NO: F 80091 NAVFAC DRAWING NO. 60007911 CONST. CONTR. NO. N40085-10-B-0213

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

GENERAL NOTES:

THIS PROJECT CONSISTS OF EXTENDING AN EXISTING FIRE ALARM SYSTEM TO PROVIDE PROTECTION FOR A NEW ELEVATOR HOISTWAY AND MACHINE ROOM INSTALLATION. THE EXTENSION IS TO EMPLOY ADDRESSABLE DEVICES COMPATIBLE WITH THE EXISTING FACP. THE INSTALLATION SHALL MEET THE REQUIREMENTS OF NFPA 72 AND APPLICABLE SECTIONS OF THE UNIFIED FACILITIES CRITERIA.

THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE BASE FIRE DEPARTMENT OFFICIALS. TO MINIMIZE THE TIME THAT ANY AREA IS WITHOUT THE REQUIRED DETECTION AND ALARM SERVICES.

THE CONTRACTOR SHALL FIELD VERIFY ALL RELEVANT DIMENSIONS, CLEARANCES, LOCATIONS, AND ELEVATIONS PRIOR TO ORDERING, FABRICATING, OR INSTALLING THE SYSTEM CONDUIT AND EQUIPMENT OR PORTIONS THEREOF.

WHERE THE GENERAL LOCATIONS OF COMPONENTS AND EQUIPMENT ARE INDICATED, THE DRAWINGS ARE TO FOLLOWED AS CLOSELY AS POSSIBLE. THE CONDUIT ARRANGEMENT SHOWN IS CONCEPTUAL. IF IT IS FOUND NECESSARY TO CHANGE THE LOCATION, POSITION, OR ORIENTATION OF ANY WORK TO ACCOMMODATE CONDITIONS AT THE BUILDING, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER AND AS DIRECTED BY THE ENGINEER.

TECHNICAL NOTES:

ALL SPLICES, JUNCTIONS, AND TERMINATIONS SHALL BE BY SCREW TERMINAL. WIRE NUTS ARE NOT PERMITTED.

ALL PENETRATIONS THROUGH FIRE WALLS AND FIRE RATED BARRIERS TO BE FIRE STOPPED PER THE DETAIL SHOWN.

PULL STATIONS TO BE MOUNTED 48" AFF. PULL STATIONS TO BE SURFACE MOUNTED. OFFICE AREA STATIONS ARE TO BE FLUSH MOUNTED.

SIGNALING LINE CONDUCTORS SHALL BE COLOR CODED WITH RED (+) AND BLACK (-) INSULATION.

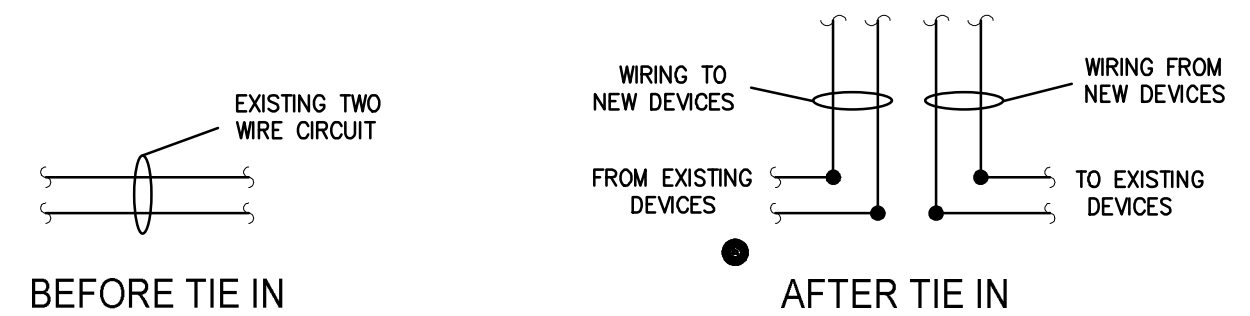
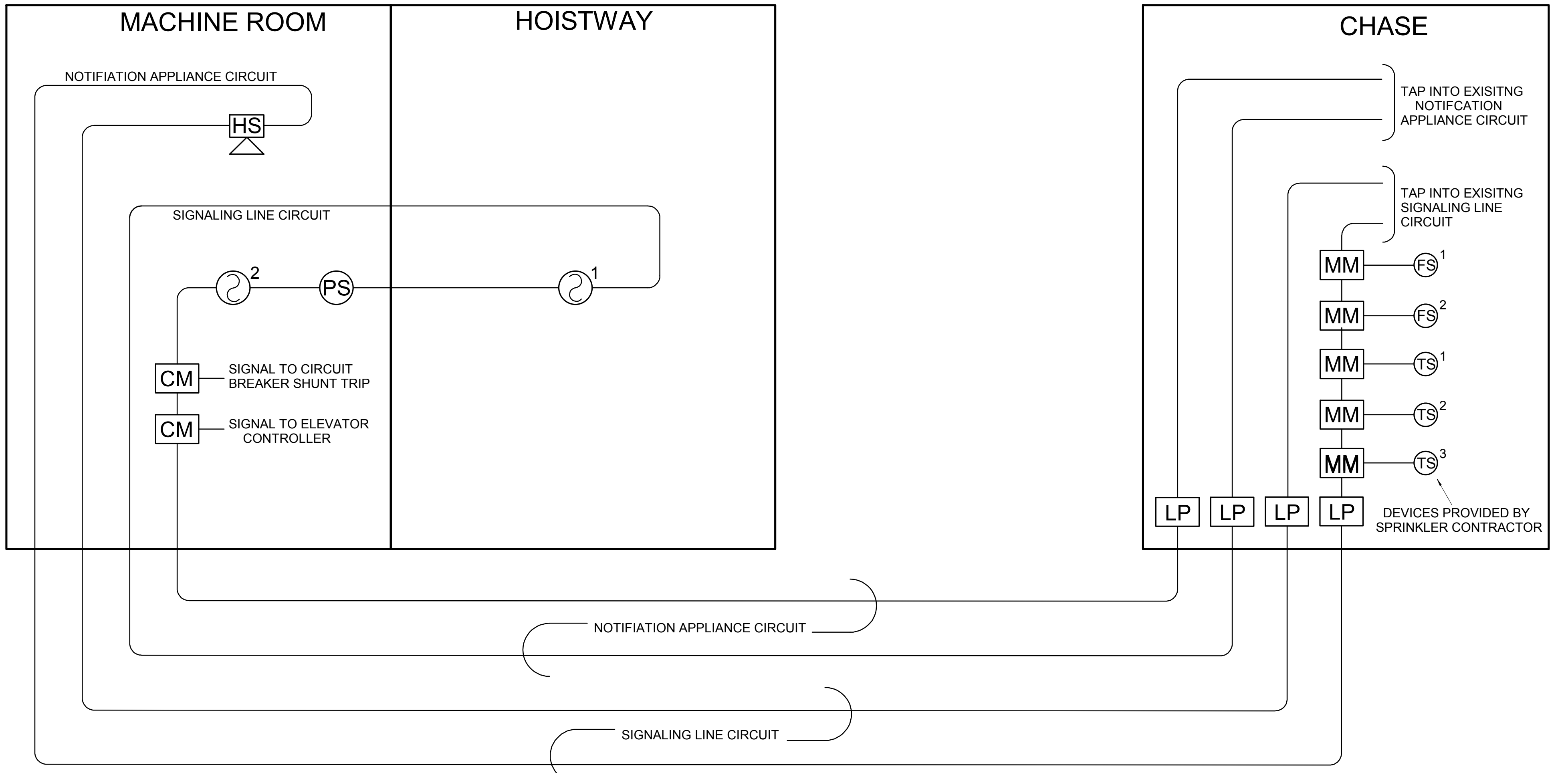
ALARM NOTIFICATION APPLIANCE CIRCUITS (HORNS AND STROBES) SHALL HAVE CONDUCTORS WITH BLUE (+) AND BLACK (-) INSULATION.

INITIATING DEVICE CIRCUITS TO BE ROUTED SUCH THAT DAMAGE TO ANY SINGLE CONDUIT WILL NOT RESULT IN LOSS OF ANY SECTION OF THE CIRCUIT (A LOOPED CONDUIT ARRANGEMENT SHALL BE USED).

THE 24 VDC POWER FOR THE NOTIFICATION APPLIANCE CIRCUITS IS TO BE PROVIDED BY THE FACP UNLESS CALCULATIONS OR FACP POWER LIMITATIONS DICTATE THE NEED FOR AN AUXILIARY POWER SUPPLY. IF AN AUXILIARY POWER SUPPLY IS REQUIRED, IT SHALL BE A UL LISTED DEVICE COMPATIBLE WITH THE SYSTEM AND SHALL HAVE A BACKUP CAPACITY EQUAL TO THAT REQUIRED OF THE FACP.

ALARM SYSTEM CONTROL MATRIX			OUTPUTS					
DEVICE	LOCATION	DETECT/MONITOR	INITIATE BLDG. FIRE ALARM	INITIATE SUPERVISORY SIGNAL	TRIP CIRCUIT BREAKER	RECALL ELEVATOR TO GROUND FLOOR	INITIATE FIRE FIGHTER'S SERVICE	FLASH FIRE FIGHTER'S SERVICE LIGHT
SMOKE DETECTOR 1	HOISTWAY	HOISTWAY FIRE	X			X	X	X
SMOKE DETECTOR 2	ELEV. MACH. RM	MACH. RM. FIRE	X			X	X	X
FLOW SWITCH 1	1ST FLOOR CHASE	MACH. RM. SPRINK. FLOW			X			
FLOW SWITCH 2	1ST FLOOR CHASE	PIT SPRINKLER FLOW	X					
TAMPER SWITCH 1	1ST FLOOR CHASE	VALVE POSITION		X				
TAMPER SWITCH 2	1ST FLOOR CHASE	VALVE POSITION		X				
TAMPER SWITCH 3	ELEV. MACH. RM	VALVE POSITION		X				
PULL STATION	ELEV. MACH. RM	MANUAL OPERATION	X					

ALARM SYSTEM SCHEMATIC



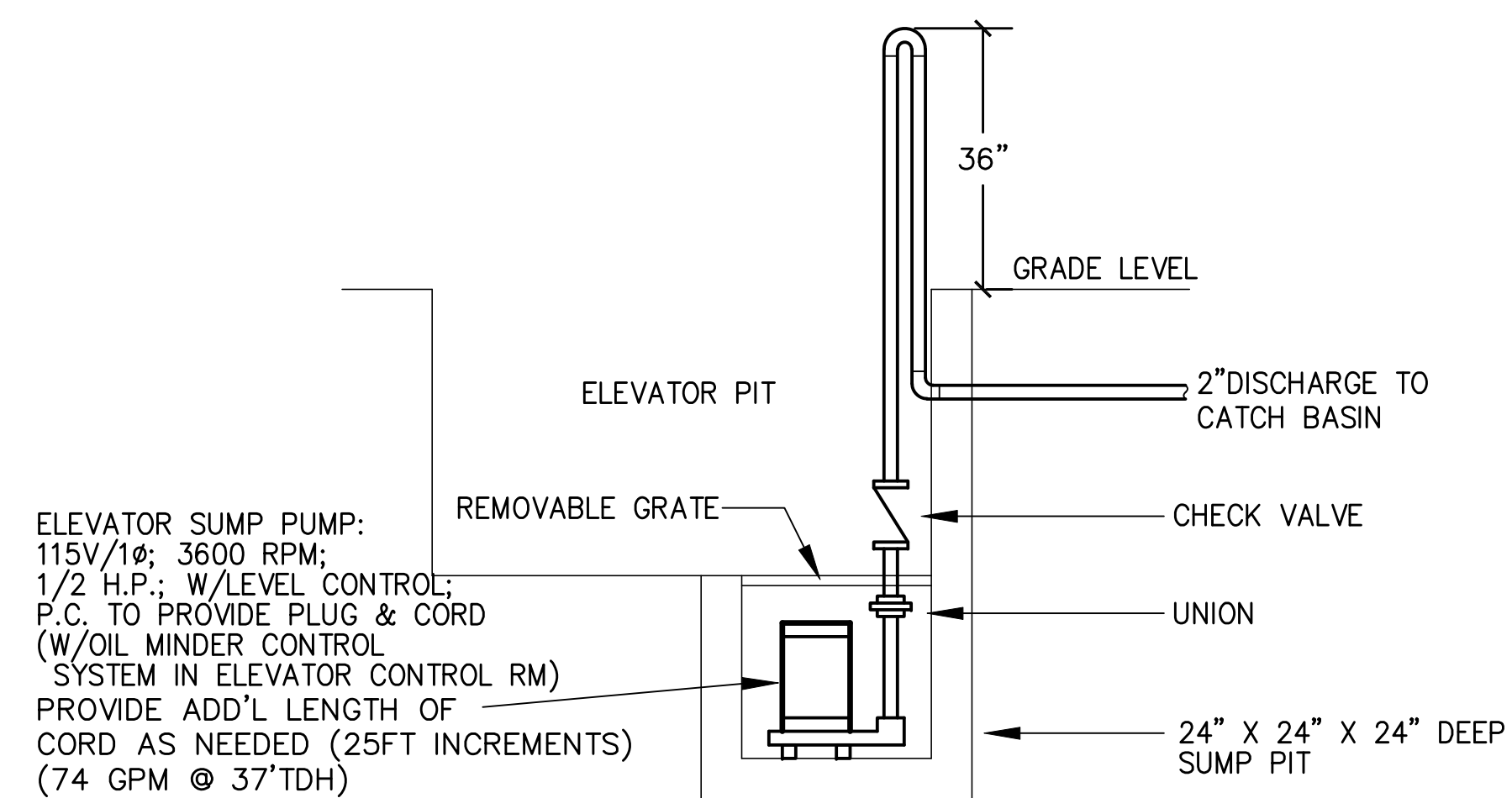
A DETAIL - TIE IN TO EXISTING CIRCUIT
F-2 NOT TO SCALE

LEGEND

SMOKE DETECTOR	⊙
MONITOR MODULE	MM
CONTROL MODULE	CM
PULL STATION	PS
FLOW SWITCH	FS
TAMPER SWITCH	TS
HORN STROBE	HS
LIGHTNING PROTECTOR	LP

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		DESIGNED BY: REP DRAWN BY: REP CHECKED BY: REP SUBMITTED BY: ADB DESIGN DIR:	ELEVATOR CONSTRUCTION BUILDING 897 MCB, CLNC
APPROVED: PWO OR OICC DATE:	SIZE: F CODE IDENT NO: 80091	CONST. CONTR. NO. N40085-10-B-0213	SCALE: GRAPHIC SPEC: 28-31-6400 SHEET 6 OF 9

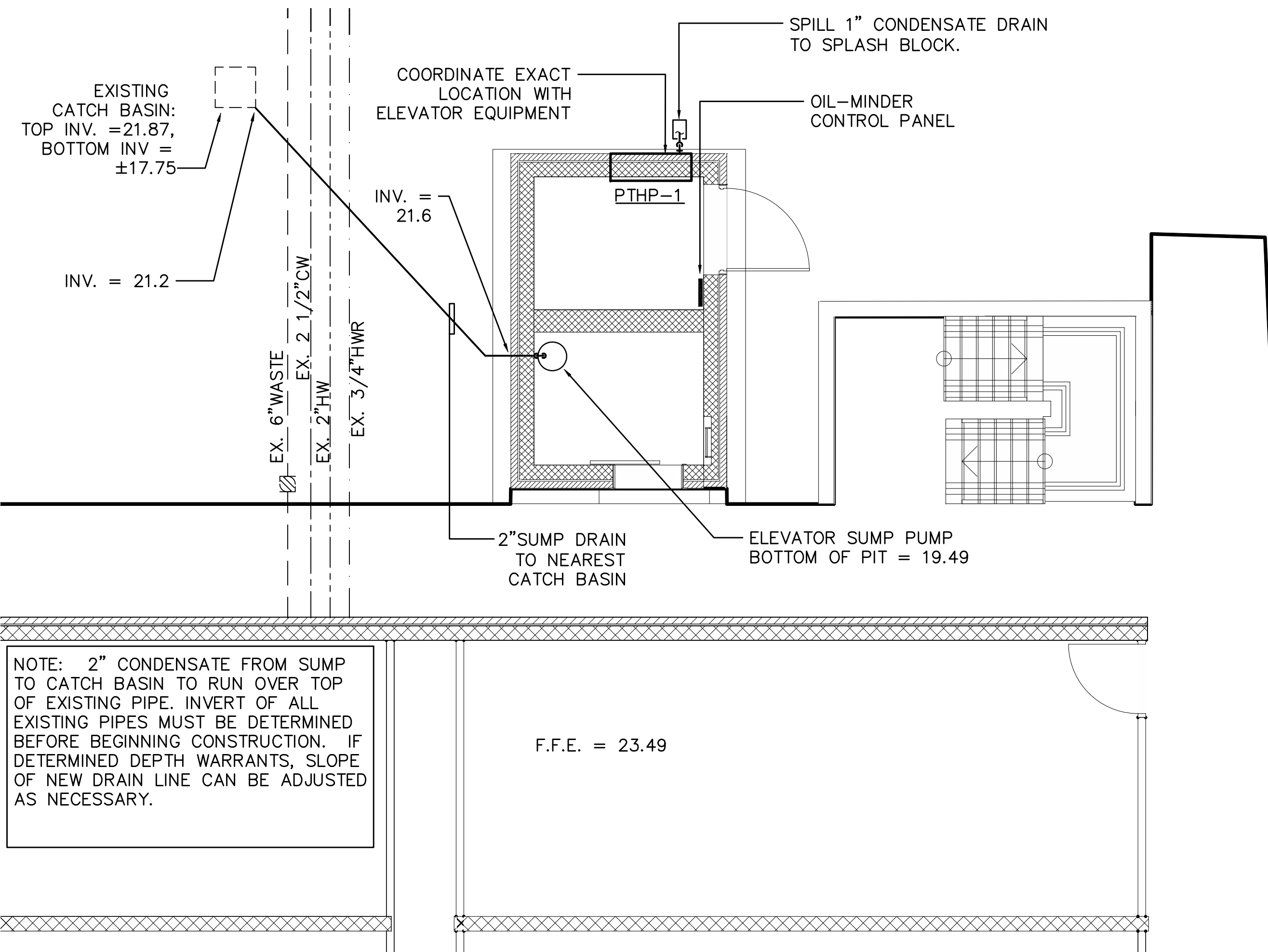
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



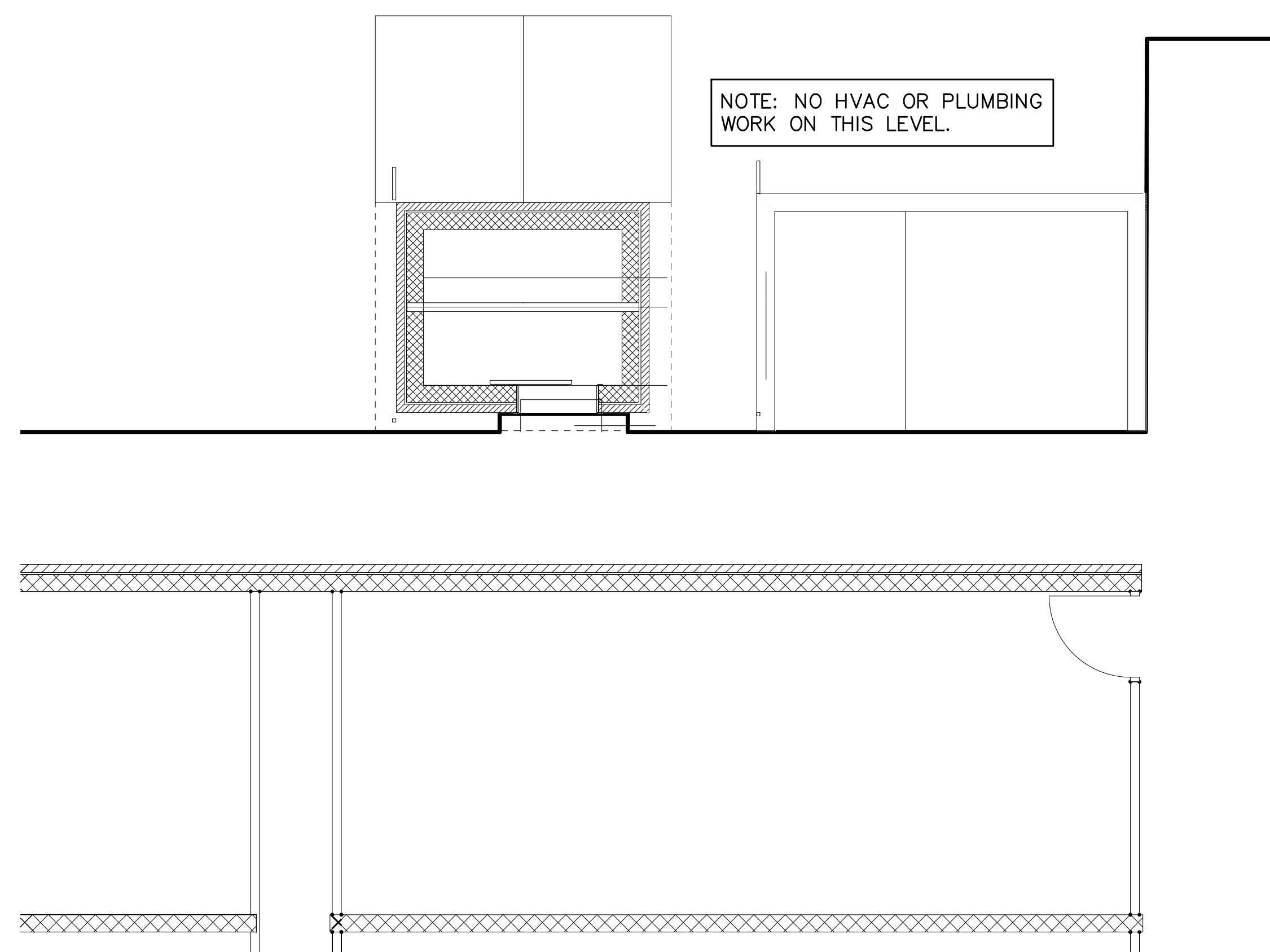
3 ELEVATOR SUMP PIT DETAIL
MP1.1 | MP1.1 | NTS

PACKAGED TERMINAL HEAT PUMP / AIR CONDITIONER SCHEDULE																		
Unit Tag	Area Served	CFM	O.A. Min.	Cooling Performance			Heating Performance			Auxiliary Heating			Electrical Data			Remarks		
				EAT	MBH Total	Efficiency EER	EAT @ 47 F	MBH @ 47 F	C.O.P. @ 47 F	kW	Volts	Phase	MCA	MOCP	Volts		Phase	NEMA Cord
PTHP-1	SEE PLANS	290	0	80/67	11.1	10.4	60	10.5	3.1	2.1	208	1	14	15	208	1	6-15P	1-3

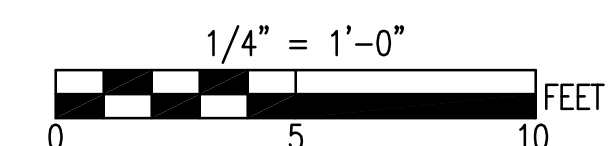
1. PROVIDE EXTRUDED ALUMINUM ARCHITECTURAL GRILLE.
2. SUB BASE WITH RECEPTACLE BY UNIT MFG.
3. EXTRA DEEP WALL SLEEVE FOR 12" WALL THICKNESS BY UNIT MFG.



1 1ST FLOOR PLAN
MP1.1 | MP1.1 | SCALE: 1/4" = 1'-0"



2 2ND FLOOR PLAN
MP1.1 | MP1.1 | SCALE: 1/4" = 1'-0"



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		DESIGNED BY: DLC/AKE DRAWN BY: DLC/AKE CHECKED BY: JCC SUBMITTED BY: _____ DESIGN DIR: _____ APPROVED: PWO OR OICC DATE: _____ SATISFACTORY TO: _____ DATE: _____ OF: _____		PLANS SIZE: F CODE IDENT NO: 80091 NAVFAC DRAWING NO. 60007913 CONST. CONTR. NO. N40085-10-B-0213 SCALE: GRAPHIC SPEC. 05-10-0213 SHEET 7 OF 9

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

SYMBOL SCHEDULE	
GENERAL SYMBOLS	
SYMBOL	DESCRIPTION
—	CONDUIT RUN CONCEALED ABOVE CEILINGS OR IN WALLS.
-----	CONDUIT RUN CONCEALED IN OR BELOW FLOORS OR UNDERGROUND.
- - - - -	CONDUIT RUN EXPOSED.
—>	CONDUIT TURNING UP
—>↓	CONDUIT TURNING DOWN
—■—	SQUARE ON CONDUIT SYMBOL INDICATES THAT CIRCUIT CONTINUES BUT NOT SWITCHLEG.
—>>>	HOMERUN TO PANEL AND CIRCUIT(S) DESIGNATED. ARROW(S) INDICATE QUANTITY OF CIRCUITS.
⊕	JUNCTION BOX PER N.E.C.
◇	SPECIAL NOTE, NUMERALS IDENTIFY, SEE SCHEDULE.
①	SPECIAL CONNECTION TO A SPECIFIC ITEM OF EQUIPMENT. SEE CONNECTION SCHEDULE.
LIGHTING	
SYMBOL	DESCRIPTION
—	BARE FLUORESCENT STRIP FIXTURE.
○	COMPACT FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED.
⊕	EMERGENCY BATTERY PACK FIXTURE, WALL MOUNTED. CONNECT TO UNSWITCHED LEG OF THE CIRCUIT.
DISTRIBUTION	
SYMBOL	DESCRIPTION
—	ELECTRICAL PANELBOARD, SURFACE MOUNTED.
⊕	DISCONNECT SWITCH, FUSIBLE.
WIRING DEVICES	
SYMBOL	DESCRIPTION
⊕	SINGLE RECEPTACLE, 125V, 3-WIRE GROUNDING TYPE.
⊕	DUPLEX RECEPTACLE, 125V, 3-WIRE GROUNDING TYPE.
⊕GFI	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTING.
⊕WP	DUPLEX RECEPTACLE WITH GFCI PROTECTION. PROVIDE WITH OPERABLE, IN-USE WEATHERPROOF COVER.
▼	WALL OUTLET FOR TELECOMMUNICATIONS. 1" C WITH 1 CAT6 CABLE TO EXISTING TTB.
S	LIGHT SWITCH, SINGLE-POLE,
S _T	PROGRAMMABLE LIGHT SWITCH, WALL MOUNTED.

EQUIPMENT CONNECTION SCHEDULE												
SYM.	EQUIPMENT	LOAD	VOLT/PHASE	DISCONNECT					CONDUCTORS	RACEWAY		NOTES
				TYPE	RATING	POLES	TRIP/FUSE	ENCL.		TYPE	SIZE	
①	PTHP-1	2.1KW	208/1	NFDS	30	2	--	1	2#12, 1#12G	FMC	1/2"	--
②	ELEVATOR	25 HP	208/3	FDS	200	3	◇	3R	3#2, 1#6G	LFMC	1 1/4"	◇
③	ELEVATOR CAB LIGHTS	200W	120/1	NFDS	30	2	15	3R	2#12, 1#12G	LFMC	1/2"	--
④	ELEVATOR CONTROLS	1000 VA	120/1	NFDS	30	2	15	3R	2#12, 1#12G	LFMC	1/2"	--

LEGEND

DISCONNECT TYPES	DISCONNECT ENCLOSURE TYPES	RACEWAY TYPES
ETCB = ELECTRONIC-TRIP CIRCUIT BREAKER	1 = NEMA 1 ENCLOSURE	EMT = ELECTRIC METALLIC TUBING
FDS = FUSIBLE DISCONNECT SWITCH	3R = NEMA 3R ENCLOSURE	FMC = FLEXIBLE METAL CONDUIT
MCP = MOTOR CIRCUIT PROTECTOR	4 = NEMA 4 ENCLOSURE	IMC = INTERMEDIATE METAL CONDUIT
NFDS = NON-FUSIBLE DISCONNECT SWITCH	4X = NEMA 4X ENCLOSURE	LFMC = LIQUID-TIGHT FLEXIBLE METAL CONDUIT
ST/DS = COMBINATION STARTER/DISCONNECT SWITCH		PVC = NON-METALLIC PVC CONDUIT
TMCB = THERMAL-MAGNETIC CIRCUIT BREAKER		RMC = RIGID METAL CONDUIT
TOG = HP RATED TOGGLE SWITCH		

NOTES

ALL ELECTRICAL CHARACTERISTICS SCHEDULED ABOVE ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH EQUIPMENT SUPPLIER(S) PRIOR TO ROUGHING, AND SHALL VERIFY EXACT LOCATION AND EXACT TYPE OF CONNECTION. ALL EQUIPMENT SHALL BE PROPERLY AND SECURELY GROUNDED. ANY SIGNIFICANT CHANGES IN LOCATION, ELECTRICAL REQUIREMENTS, OR TYPE OF CONNECTION REQUIRED FOR ANY EQUIPMENT SCHEDULED ABOVE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO PROCEEDING.

CONDUCTORS AND RACEWAY SPECIFIED IN THE ABOVE SCHEDULE ARE FOR FINAL CONNECTION TO UNIT AND SHALL BE EXTENDED FROM THE DISCONNECT SHOWN ON THE FLOOR PLANS TO THE EQUIPMENT TERMINATION BOX.

◇ FUSE PER MANUFACTURER'S RECOMMENDATIONS.

◇ PROVIDE WITH AUXILIARY CONTACTS FOR BATTERY CONTROL DISCONNECT.

LUMINAIRE REQUIREMENTS

- 0.026" MINIMUM THICKNESS STEEL CHANNEL.
- CHEMICALLY TREAT STEEL FOR RUST PREVENTION, AND FINISH WITH BAKED WHITE ENAMEL OR POLYESTER PAINT.
- BALLAST SHALL BE HIGH POWER FACTOR (> .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH A SOUND RATING OF "A".

4. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.

5. PROVIDE 0.019" MINIMUM THICKNESS STEEL REFLECTOR (SYMMETRIC OR ASYMMETRIC AS INDICATED) WITH 20% UPLIGHT.

TYPE A - 1 F32/T8 LAMP
 TYPE B - 2 F32/T8 LAMPS
 TYPE C - 1 F96/T12 LAMP
 TYPE D - 2 F96/T12 LAMPS

OPTIONS

- WIRE GUARD

SKETCH DATE: JUNE 2002 STYLE: NL-7

LUMINAIRE REQUIREMENTS

- CAST ALUMINUM OR ULTRA-VIOLET RESISTANT POLYCARBONATE HOUSING SATIN FINISH AND CLEAR LACQUER COATING ON ALUMINUM HOUSING.
- PROVIDE PORCELAIN SOCKET WITH FULL METAL SCREW SHELL SUITABLE FOR A 75 WATT INCANDESCENT LAMP. (OPTION 1)
- GLOBE SHALL BE WHITE POLYCARBONATE, UNLESS INDICATED OTHERWISE.
- PROVIDE HEAT RESISTANT VAPORTIGHT GASKET BETWEEN GLOBE AND HOUSING. PROVIDE NEOPRENE GASKET BETWEEN LUMINAIRE AND WALL OR CEILING.
- PROVIDE INTERNAL GREEN GROUNDING SCREW.
- PROVIDE HIGH POWER FACTOR (> .9) ELECTROMAGNETIC BALLAST. (OPTIONS 2 & 3)
- FIXTURE SHALL HAVE UL DAMP LOCATION LABEL. PROVIDE WET LABEL WHEN INDICATED.
- PROVIDE COLD WEATHER BALLAST WHEN INDICATED.

TYPE A TYPE B
 TYPE C TYPE D

LAMP OPTIONS

- 1 75W INCANDESCENT
- 1 F7/T4 TWIN TUBE COMPACT FLUOR. (0" F)
- 2 F7/T4 TWIN TUBE COMPACT FLUOR. (0" F)

SKETCH DATE: JUNE 2002 STYLE: NL-45

LUMINAIRE REQUIREMENTS

- SEALED BATTERY, SPECIFICALLY DESIGN FOR EMERGENCY LIGHTING, SOLID STATE FULLY AUTOMATIC - THREE RATE CHARGER FOR NICKEL CADMIUM BATTERY AND TWO RATE HIGH/LOW CHARGER FOR LEAD CALCIUM OR LEAD ACID SEALED BATTERIES.
- MINIMUM 0.032" THICK THERMOPLASTIC HOUSING
- TEST SWITCH
- "AC ON" PILOT LIGHT.
- AUTOMATIC OVERLOAD PROTECTION - FUSE OR CIRCUIT BREAKER.
- HEADS SHALL BE FULLY ADJUSTABLE VERTICALLY AND HORIZONTALLY.
- SEALED BEAM HALOGEN PAR-36 LAMPS, MINIMUM 12 WATT.
- INPUT VOLTAGE AS INDICATED.
- LOW VOLTAGE, DEEP DISCHARGE DISCONNECT.
- PROVIDE INTERNAL GREEN GROUNDING SCREW.
- FIXTURE SHALL BE NONMETALLIC, SUITABLE FOR USE IN CHLORINE ENVIRONMENTS.

SKETCH DATE: JUNE 2002 STYLE: NL-51

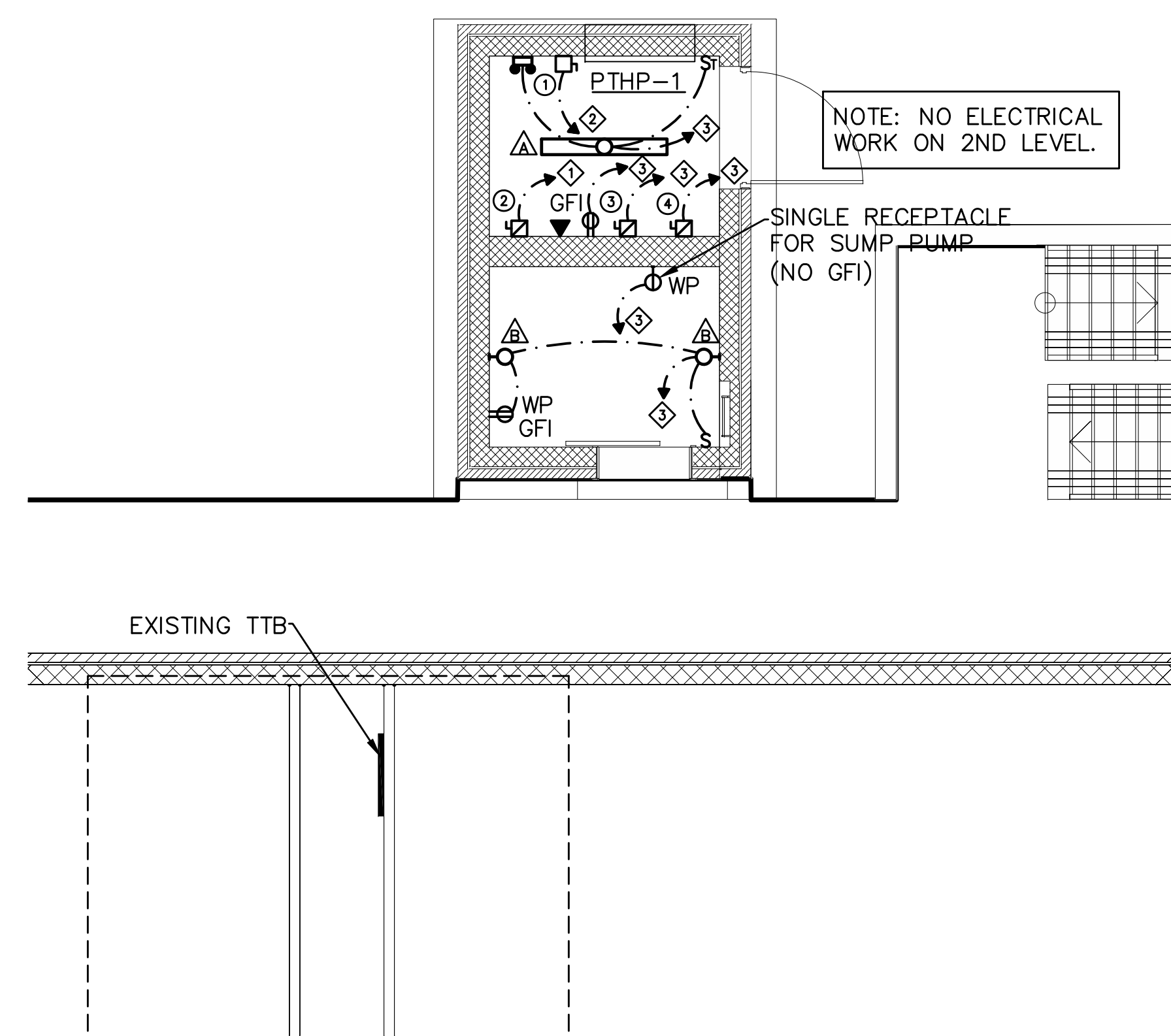
LIGHTING FIXTURE SCHEDULE					
FIXTURE SYMBOL	SKETCH NO. & TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
△	NL-7, TYPE B	2 - F32/T8	120	CHAIN HUNG	OPTION 1, WIRE GUARD
△	NL-45, TYPE A	2 - F7/T4	120	WALL, +18" ABOVE PIT FLOOR	PROVIDE WIRE GUARD, WET LOCATION
⊕	NL-51	2 - PAR 36	120	WALL	◇

NOTES:

◇ MOUNT 12" BELOW CEILING TO TOP OF FIXTURE.

McKNIGHT-SMITH WARD - GRIFFIN ENGINEERS, INCORPORATED 4223 South Boulevard Charlotte, NC 28217 704/363-0112	Kanoy Architecture, P.A. ARCHITECTS • PROGRAMMERS • MASTER PLANNERS 1955A Harper Lake Road West End, North Carolina 27376 Phone: 910-215-5555 Fax: 910-215-5586	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA ELEVATOR CONSTRUCTION BUILDING 897 MCB, CLNC	E1.1
		DESIGNED BY: MDK DRAWN BY: MDK CHECKED BY: MPA SUBMITTED BY: DESIGN DIR:	SYMBOLS AND SCHEDULES APPROVED: PWO OR OICC DATE: SATISFACTORY TO: DATE: OF:

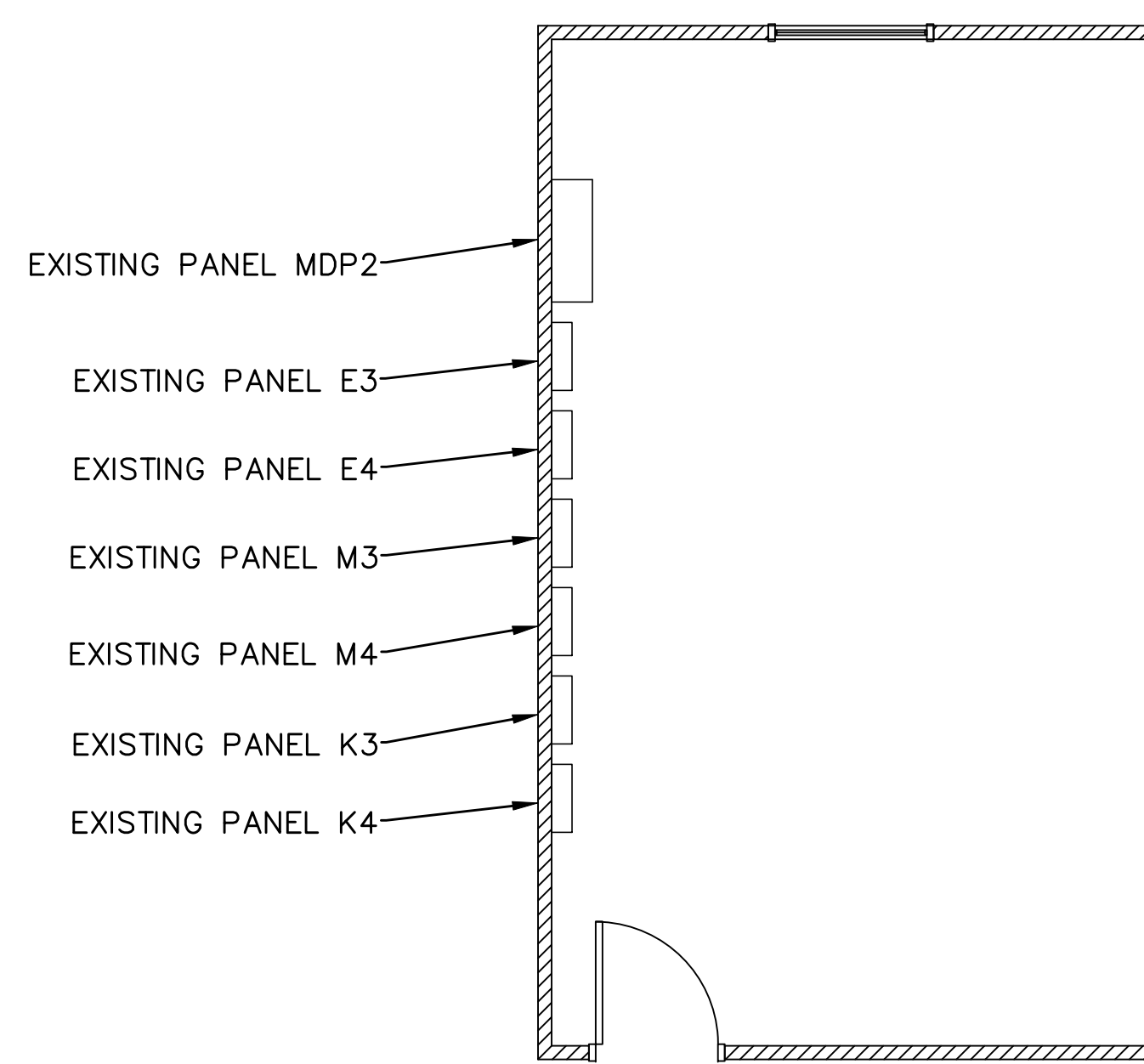
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



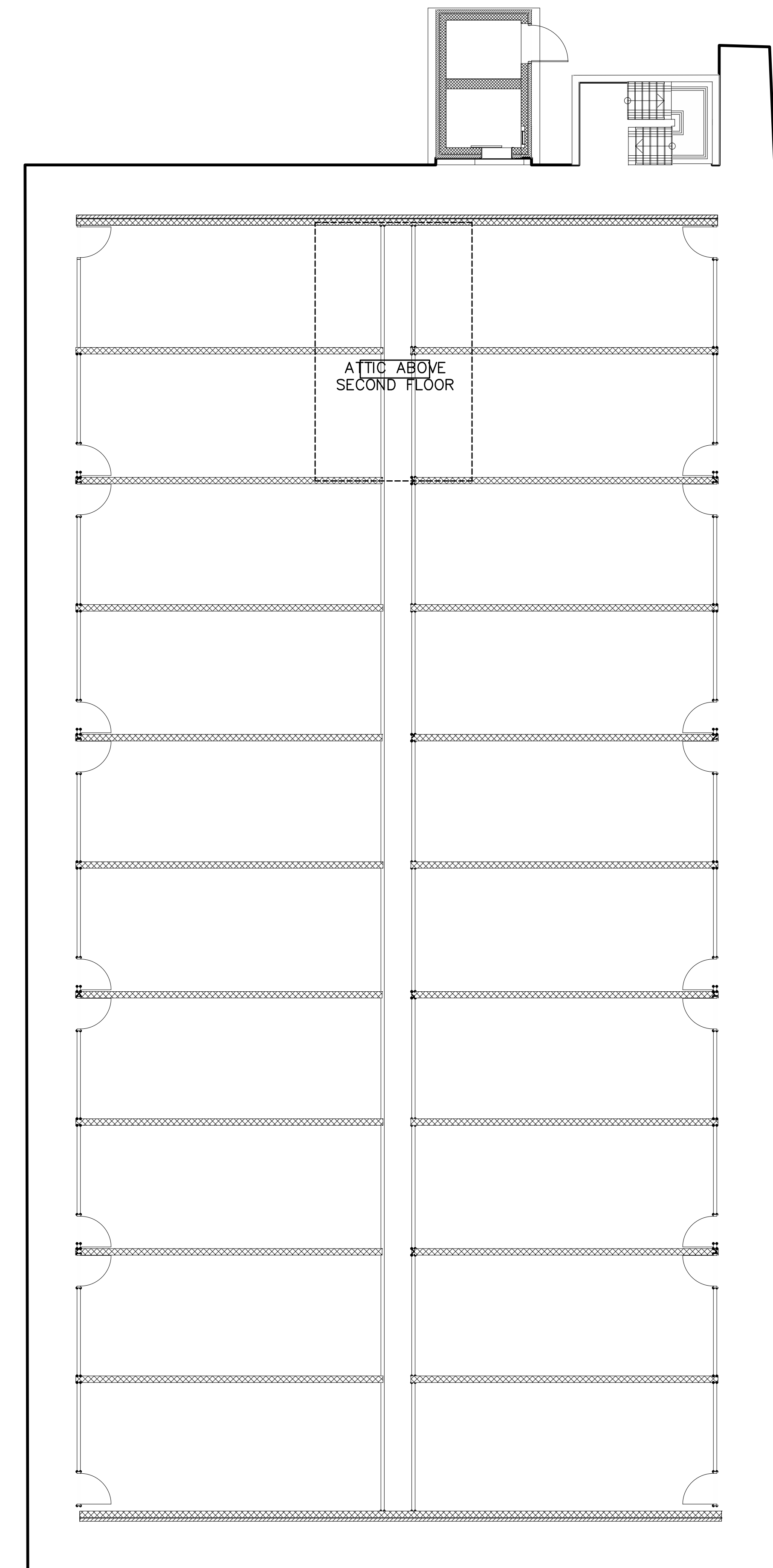
1 1ST FLOOR PLAN
 E1.1 E1.1 SCALE: 1/4" = 1'-0"

NOTES:

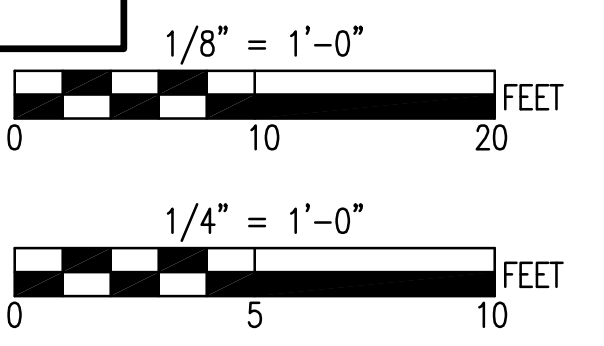
- ① IN SPACE AVAILABLE IN EXISTING PANEL MDP2 (208Y/120V, 600A MLO, 65KAIC, CUTLER HAMMER PRL3A) PROVIDE NEW 125/3 CIRCUIT BREAKER AND CONNECT WITH 3#2, 1#6G, 1-1/4" C.
- ② IN SPACE AVAILABLE IN EXISTING PANEL MDP2 (208Y/120V, 600A MLO, 65KAIC, CUTLER HAMMER PRL3A) PROVIDE NEW 15/2 CIRCUIT BREAKER AND CONNECT WITH 2#12, 1#12G, 1/2" C.
- ③ IN SPACE AVAILABLE IN EXISTING PANEL MDP2 (208Y/120V, 600A MLO, 65KAIC, CUTLER HAMMER PRL3A) PROVIDE NEW 20/1 CIRCUIT BREAKER AND CONNECT WITH 2#12, 1#12G, 1/2" C.



2 ATTIC PLAN
 E1.1 E1.1 SCALE: 1/8" = 1'-0"



3 OVERALL 1ST FLOOR PLAN
 E1.1 E1.1 SCALE: 1/8" = 1'-0"



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		DESIGNED BY: MDK DRAWN BY: MDK CHECKED BY: MPA SUBMITTED BY: DESIGN DIR:	
	APPROVED: PWO OR OICC DATE: SATISFACTORY TO: DATE: OF:	SIZE: F CODE IDENT NO: 80091 NAVFAC DRAWING NO. 60007915 CONST. CONTR. NO. N40085-10-B-0213	SCALE: GRAPHIC SPEC. 05-10-0213 SHEET 9 OF 9