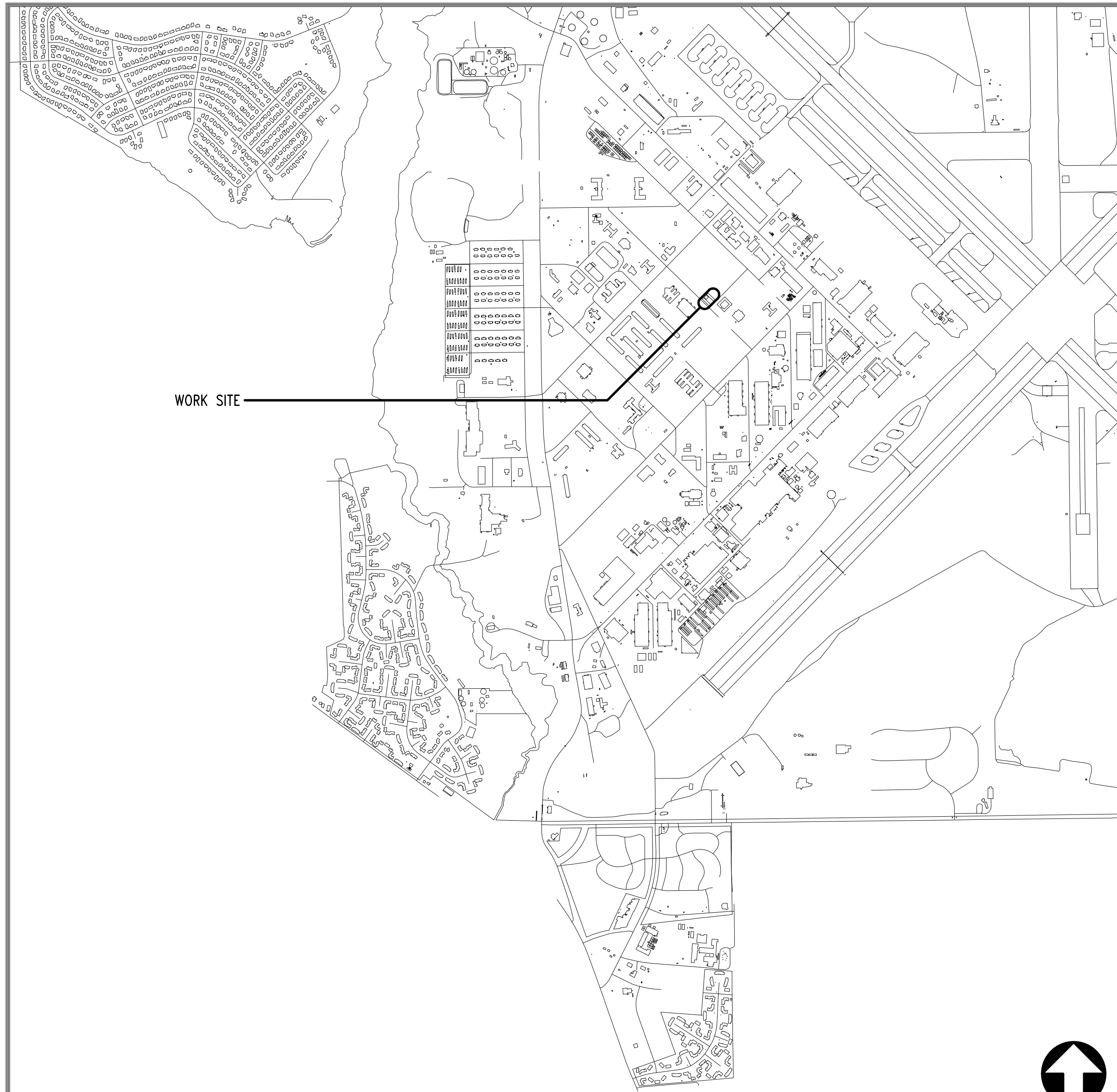
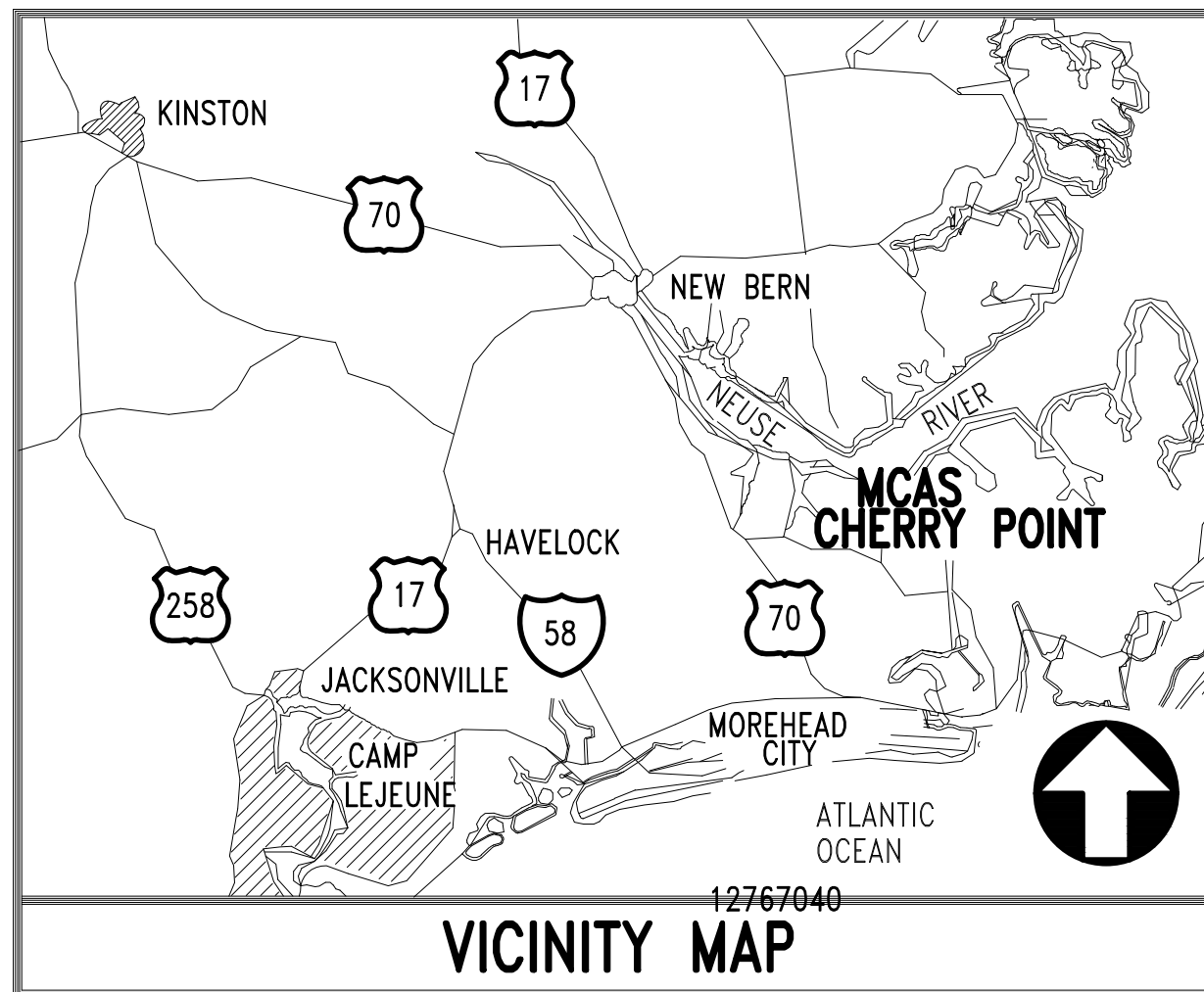


REPAIR FOUR ELEVATORS, BUILDING 4881

MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA



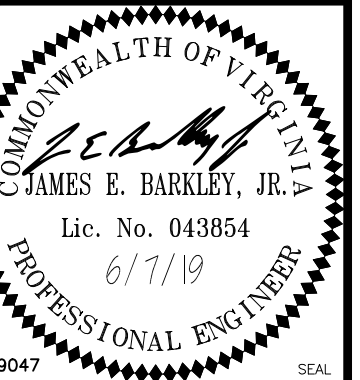
LOCATION MAP



VICINITY MAP

INDEX OF DRAWINGS			
NAVFAC NO.	SHT. NO.	DWG NO.	TITLE
12782873	1	G-001	TITLE SHEET
12782874	2	G-101	OVERALL FIRST FLOOR PLAN
12782875	3	G-301	ELEVATOR SHAFT SECTIONS
12782876	4	G-401	ENLARGED ELEVATOR AND MACHINE ROOM PLAN
12782877	5	G-501	ELEVATOR DETAILS
12782878	6	M-001	GENERAL NOTES, LEGEND, ABBREVIATIONS, SCHEDULES, AND CONTROLS
12782879	7	M-101	MECHANICAL PARTIAL FLOOR PLAN
12782880	8	M-501	DETAILS
12782881	9	E-101	GENERAL NOTES, LEGEND AND ABBREVIATIONS
12782882	10	E-102	PARTIAL FLOOR PLAN
12782883	11	E-301	ELEVATOR SHAFT SECTIONS
12782884	12	E-501	FIXTURE PLATES AND DETAILS
12782885	13	FA001	GENERAL NOTES, LEGEND AND ABBREVIATIONS
12782886	14	FA101	PARTIAL FLOOR PLAN
12782887	15	FA601	RISER DIAGRAMS AND MATRIX

THE SCOPE OF THIS PROJECT INCLUDES THE REMOVAL AND REPLACEMENT OF THE EXISTING 50HP HYDRAULIC ELEVATOR CONTROLLER, ELEVATOR CONTROL WIRING, HALL STATIONS, CAR OPERATING PANELS, AND ELEVATOR CONTROL DEVICES OF FOUR 4-STOP, FRONT OPENING, HYDRAULIC ELEVATORS IN BUILDING 4881 AT CHERRY POINT MARINE BASE, HAVELOCK, NC.



APPROVED
 PER COMMANDER NAVFAC
 ACTIVITY
 SATISFACTORY TO
 DES: GML | DRW: ADR | CHK: JEB

U.S. MARINE CORPS AIR STATION
 CHERRY POINT, NORTH CAROLINA
 REPAIR FOUR ELEVATORS, BUILDING 4881
 CHERRY POINT
 TITLE SHEET

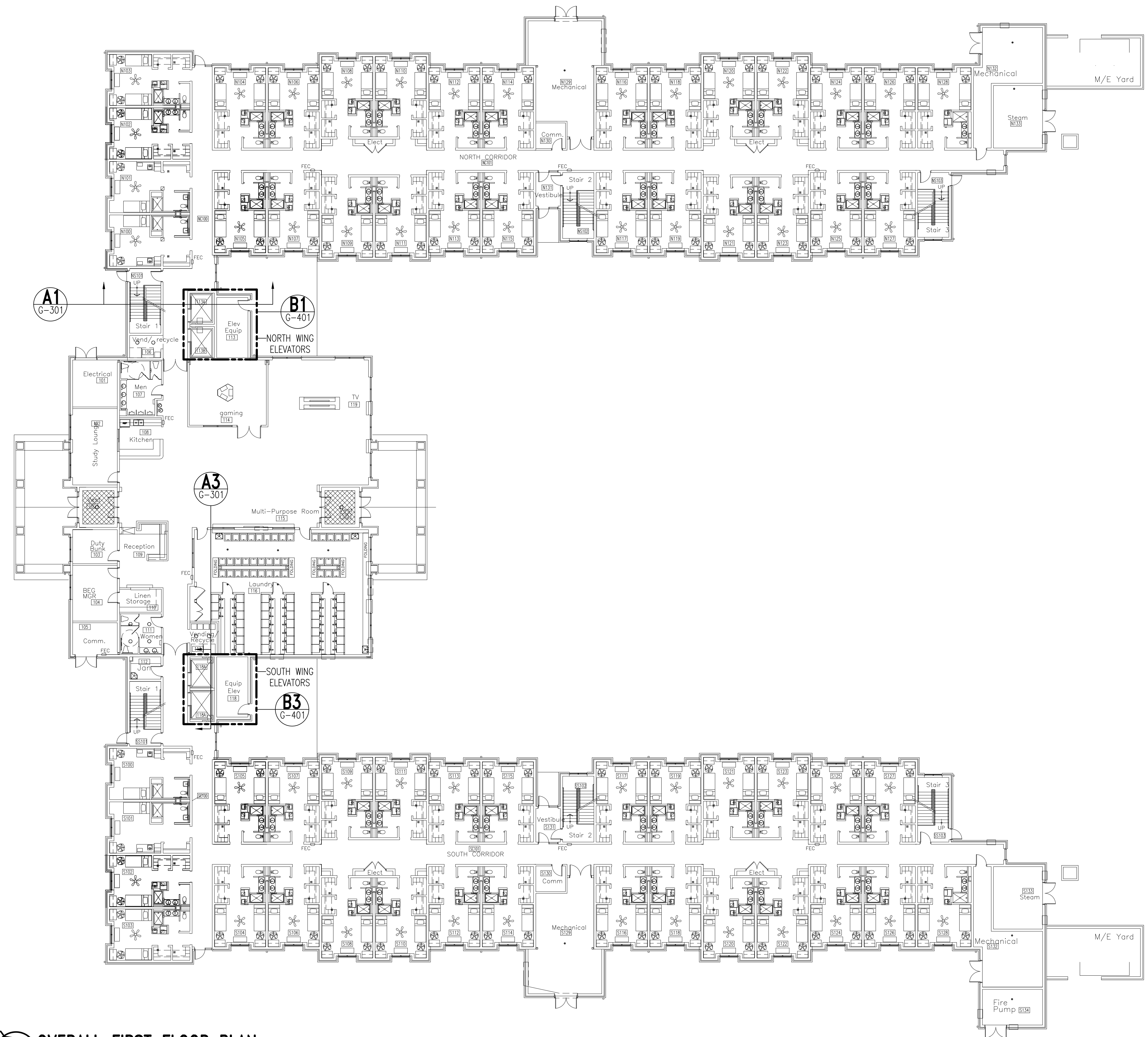
SCALE: AS NOTED
 PROJECT NO.: 6863656
 MAXIMO WORK ORDER NO. 6863656
 NAVFAC DRAWING NO. 12782873
 SHEET 01 OF 15
G-001

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GENERAL NOTES

CONTRACTOR MUST PROVIDE BARRIERS AROUND AREAS OF WORK. PERMANENT BARRIERS SHALL BE ESTABLISHED SO AS TO MAINTAIN EGRESS PATHWAYS IN THE AREA OF THE ELEVATORS. TEMPORARY BARRIERS THAT REDUCE EGRESS PATHWAYS MAY BE UTILIZED ONLY WHEN WORKING AT EACH LANDING AND SHALL BE REMOVED WHEN NOT WORKING IN THE IMMEDIATE AREA. ALL EQUIPMENT AND MATERIALS MUST BE SECURED FROM THEFT AND VANDALISM.

CONTRACTOR WILL CONTROL WORKERS ON SITE AT ALL TIMES. WORKERS WILL BE RESTRICTED TO THE WORKING AREAS ONLY.

CONTRACTOR WILL NOT ALLOW TRASH TO ACCUMULATE OVER 1 DAY. ALL CONSTRUCTION DEBRIS AND TRASH MUST BE DISPOSED OF IN CONTRACTOR'S DISPOSAL BIN. CONTRACTOR WILL NOT USE BUILDING DUMPSTER FOR DISPOSAL OF DEBRIS/TRASH.

NO SMOKING AT ANY TIME IN THE BUILDING.

SCHEDULING IS REQUIRED. CONTRACTOR SHALL SCHEDULE HIS WORK AND COORDINATE HIS ACTIVITIES SO AS TO CAUSE THE LEAST INTERFERENCE WITH THE NORMAL OPERATIONS OF THE BUILDING.

CARE SHALL BE TAKEN THAT EXISTING EQUIPMENT, MATERIALS AND FINISHES TO REMAIN ARE NOT DAMAGED DURING DEMOLITION OR WHEN TRYING TO ACCOMPLISH NEW WORK. ANY EXISTING EQUIPMENT, MATERIALS OR FINISHES THAT ARE DAMAGED SHALL BE REPLACED AT CONTRACTORS EXPENSE.

ALL EXISTING WALLS, CEILINGS, FLOORS, SUBSTRATES AND OTHER SURFACES WHICH WILL REMAIN EXPOSED IN THE FINISHED WORK OR THAT ARE SOILED OR DAMAGED BY DEMOLITION WORK SHALL BE PATCHED AS REQUIRED TO MATCH ADJACENT SURFACE AND REQUIRED RATINGS. SUCH SURFACES WHICH ARE COATED WITH EXISTING FINISH AND PAINT, SHALL BE REPAIRED AND REPAINTED WITH SUFFICIENT COATS OF FINISH AND PAINT TO COMPLETELY HIDE THE PATCHING WORK. SUCH REPAIR WORK SHALL BE CARRIED OUT BY THE APPROPRIATE TRADES.

PROVIDE ELEVATOR EQUIPMENT, UPGRADE, OR ADJUSTMENT AS DETAILED.

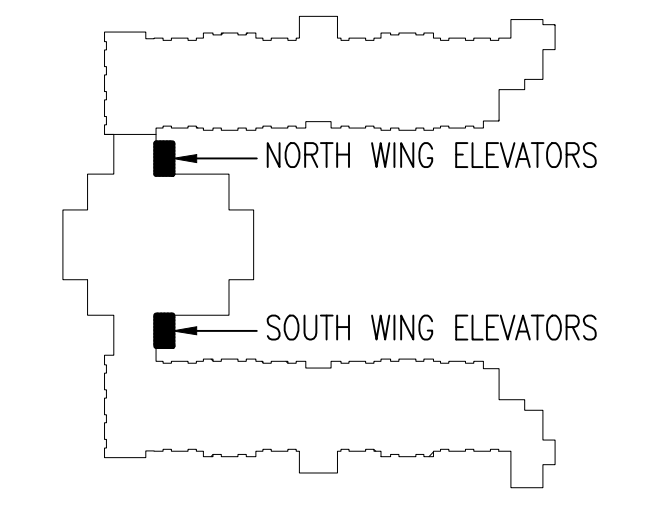
CAREFULLY REMOVE AND STORE EXISTING CEILING AND TILES TO ALLOW CONSTRUCTION OF TEMPORARY BARRIERS. REINSTALL CEILING AND TILES AFTER REMOVAL OF BARRICADES. RESTORE TO ORIGINAL CONDITION.

CLEAN ELEVATOR SHAFT AND PIT. PATCH AND SEAL ALL OPENINGS. SEAL ALL OPENINGS FOR ELEVATOR EQUIPMENT TO MAINTAIN FIRE RATING OF SHAFT. SEAL, CLEAN, PREP, PRIME AND PAINT THE EXISTING PIT WHITE UP TO FLOOR LEVEL OF BOTTOM LANDING.

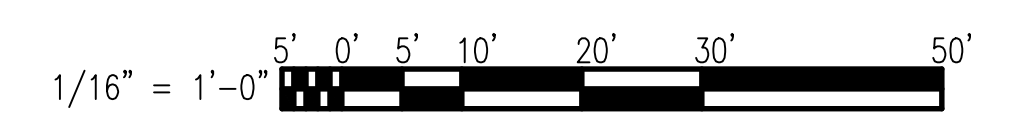
GENERAL

- DETAIL OR SECTION NOTATION
- ENUMERATION: A = DETAIL, 1 = SECTION
 - SHEET WHERE SECTION IS SHOWN
- NEW WORK NOTE SYMBOL
- DEMOLITION NOTE SYMBOL
- 2 HOUR FIRE RATED WALL

KEYPLAN:

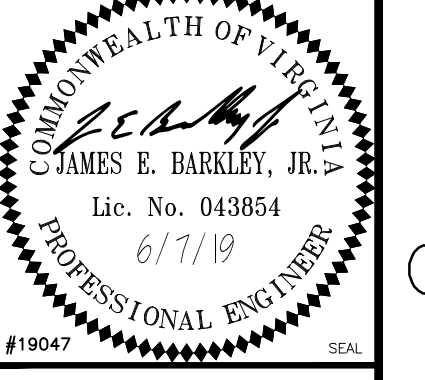


GRAPHIC SCALE:



OVERALL FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

DATE	DESCRIPTION	APP'R



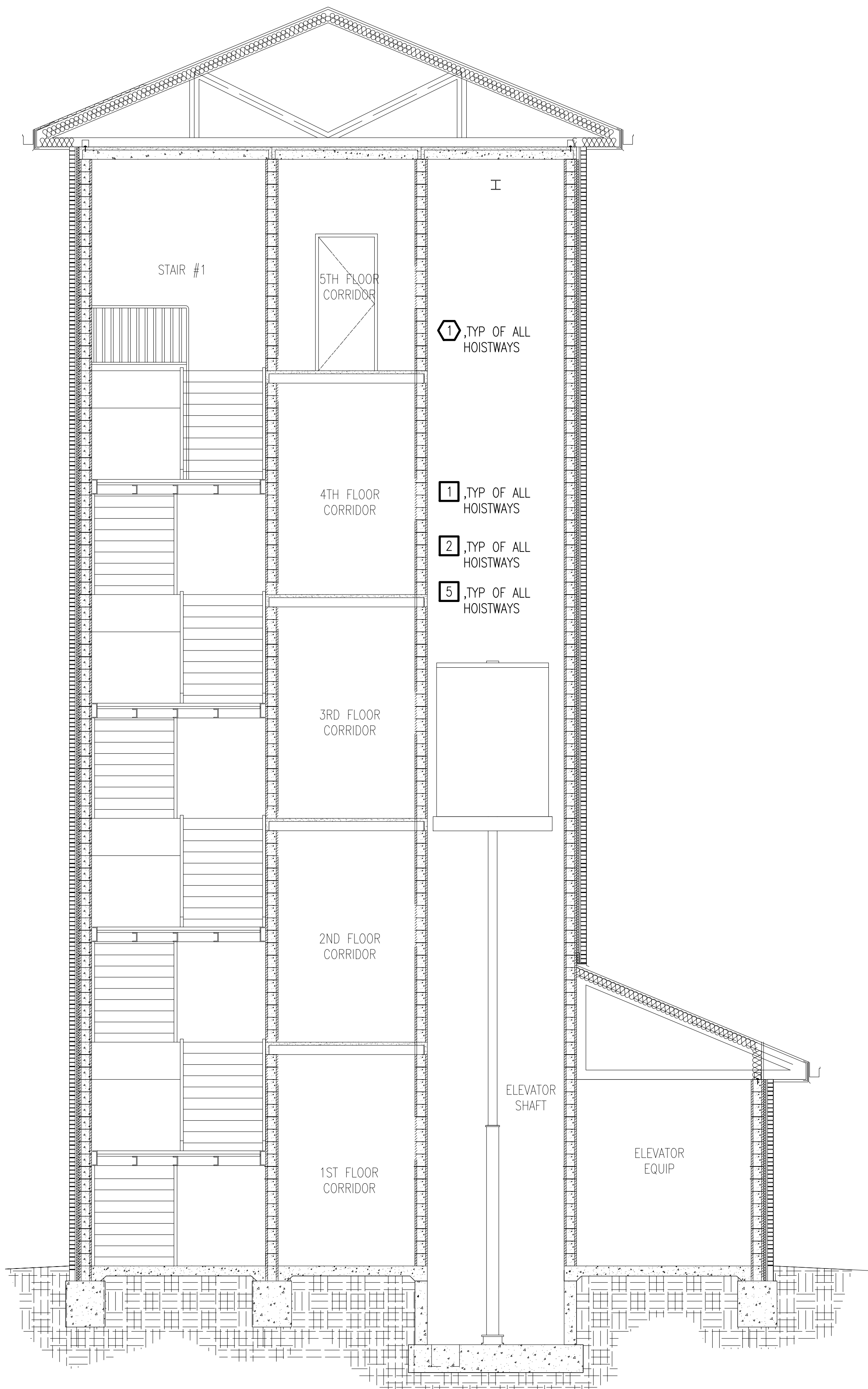
APPROVED: _____
FOR COMMANDER NAVFAC
ACTIVITY: _____
SATISFACTORY TO: _____
DES: GML | DRW: ADR | CHK: JEB

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
CHERRY POINT
OVERALL FIRST FLOOR PLAN

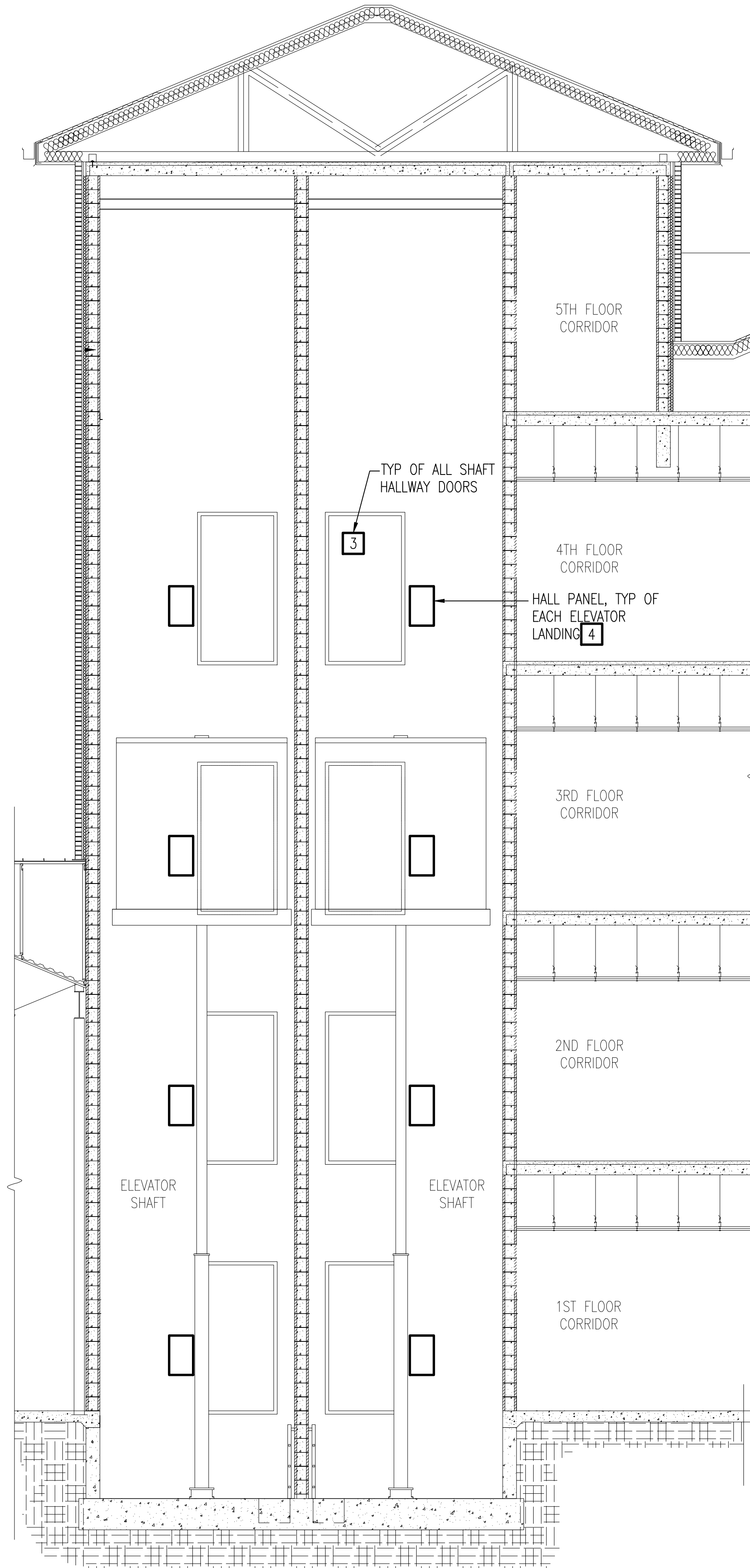
SCALE: AS NOTED
PROJECT NO.: 6863656
MAXIMO WORK ORDER NO. 6863656
NAVFAC DRAWING NO. 12782874
SHEET 02 OF 15
G-101

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A1 ELEVATOR SHAFT SECTION
G-101 SCALE: 1/4" = 1'-0"



A3 ELEVATOR SHAFT SECTION
G-101 SCALE: 1/4" = 1'-0"

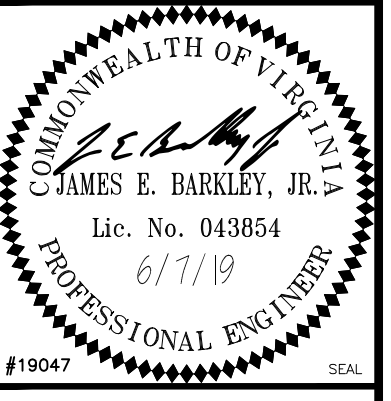
DEMOLITION NOTES THIS SHEET

- ① REMOVE ALL EXISTING ELEVATOR CONTROL WIRING COMPLETE. WIREWAY MAY BE RETURNED FOR REUSE IN NEW WORK. REMOVE EXISTING LANDING SYSTEM REMOVE EXISTING HOISTWAY SWITCHES.

NEW WORK NOTES THIS SHEET

- ① PROVIDE ELEVATOR CONTROL WIRING, CONDUIT, WIREWAY, JUNCTION/PULLBOXES AND TERMINATIONS IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. MAINTAIN REQUIRED SEPARATION OF DIGITAL AND ANALOG SYSTEMS. PROVIDE LANDING CONTROL SYSTEM. PROVIDE HOISTWAY SWITCHES.
- ② ADJUST THE CAR PLATFORM TO OBTAIN CODE REQUIRED CLEARANCES BETWEEN CAR AND HOISTWAY SILLS. ADJUST CAR ENCLOSURE TO ENSURE DISTANCES BETWEEN CAR DOOR JAMB AND HOISTWAY JAMB ARE CONSISTENT FROM TOP TO BOTTOM. RELIEVE EXCESSIVE PRESSURE ON THE CAB STEADYING PLATES AND MAKE REQUIRED ADJUSTMENTS TO DELIVER A PLUMB CAB.
- ③ MAKE NECESSARY ADJUSTMENTS OF HOISTWAY DOOR EQUIPMENT AT EACH LANDING TO OBTAIN PROPER ALIGNMENT BETWEEN THE CAR DOOR CLUTCH AND PICK-UP ROLLERS ON THE HOISTWAY DOORS.
- ④ REMOVE EXISTING HALL FIXTURES. PROVIDE HALL FIXTURE PLATE AND BUTTONS. BUTTONS MUST BE VANDAL RESISTANT AND ADA COMPLIANT. PHASE 1 BUTTONS MUST BE ENGRAVED ON THE STATION AT THE DESIGNATED LANDING AND A FIREMAN'S SERVICE PHASE 1 KEY SWITCH PROVIDED. PROVIDE ENGRAVED ELEVATOR CORRIDOR CALL STATION OF PICTOGRAPH SIGNS ON ALL HALL STATIONS.
- ⑤ ADJUST ROLLER GUIDES FOR PROPER TENSION ON THE INDIVIDUAL ROLLERS.

NO.	DATE	DESCRIPTION



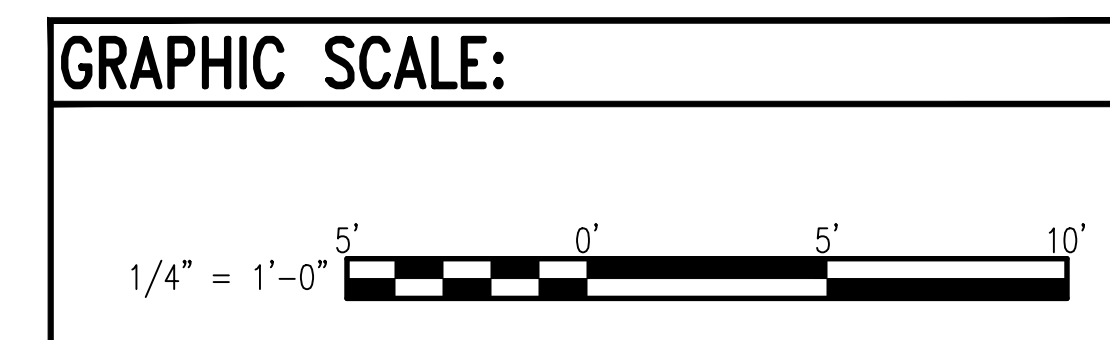
APPROVED

FOR COMMANDER NAVFAC

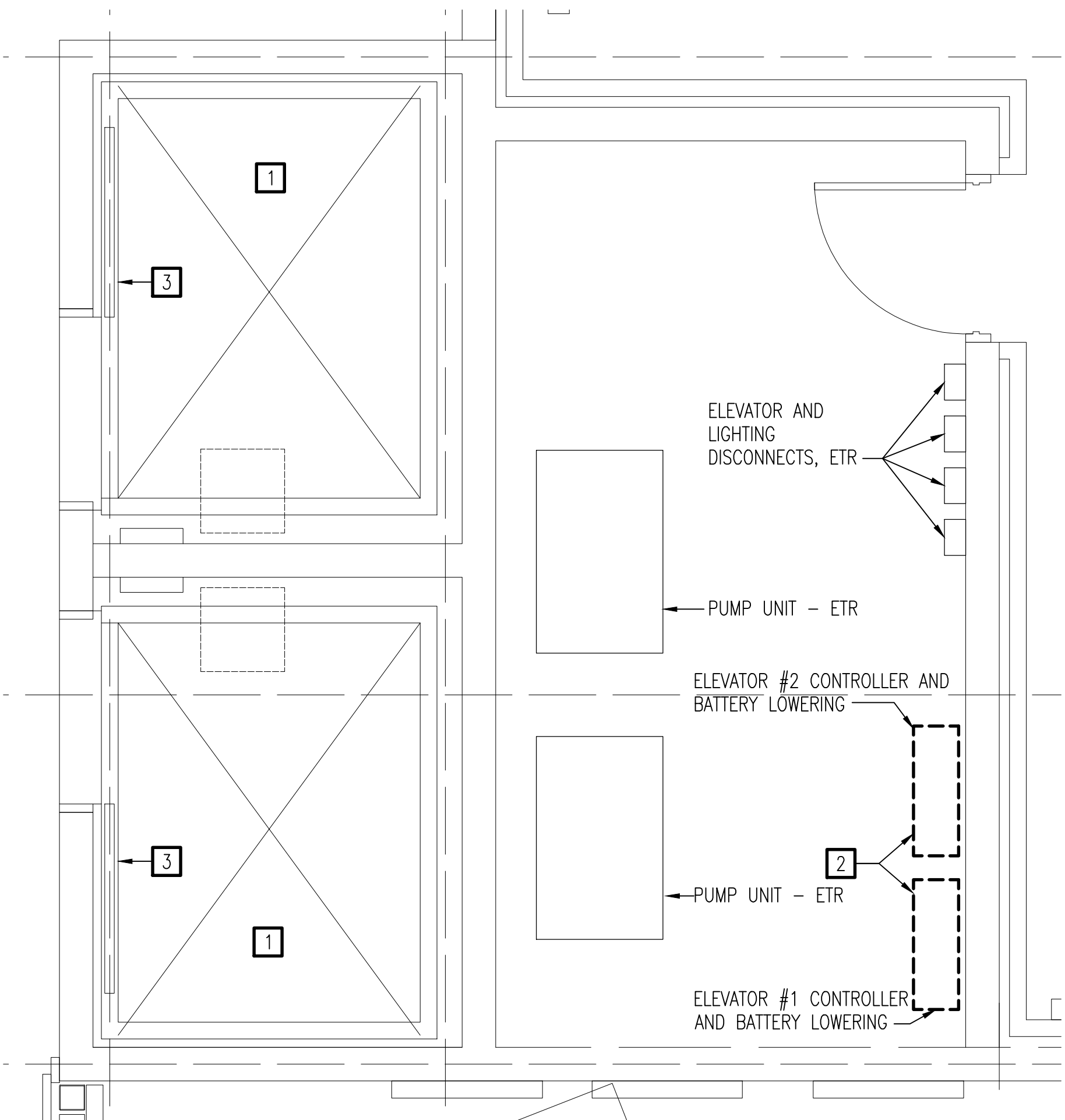
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SATISFACTORY TO
DES: GML DRW: ADR CHK: JEB

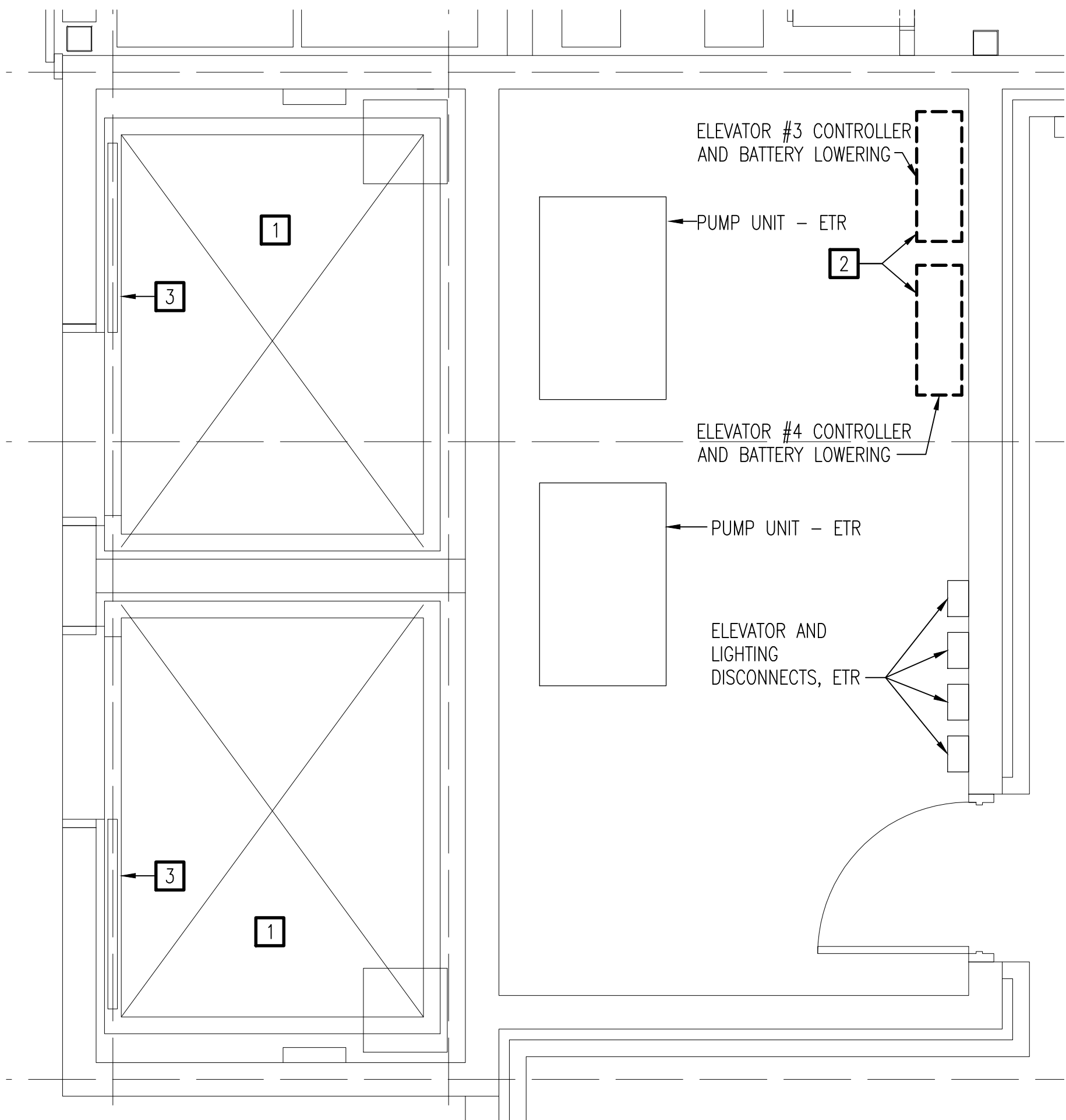
U.S. MARINE CORPS AIR STATION
 CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
 CHERRY POINT
 ELEVATOR SHAFT SECTIONS



SCALE: AS NOTED
PROJECT NO.: 6863656
MAXIMO WORK ORDER NO. 6863656
NAVFAC DRAWING NO. 12782875
SHEET 03 OF 15
G-301



B1 PARTIAL NORTH WING ELEVATORS AND MACHINE ROOM
 G-101/SCALE: 1/2" = 1'-0"

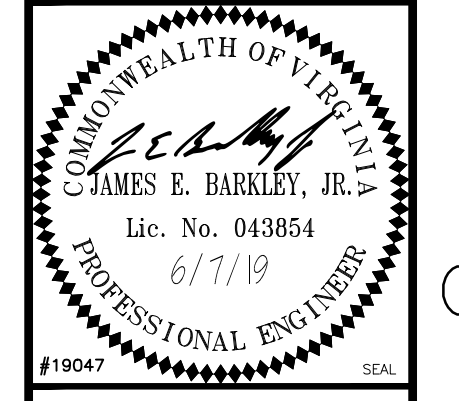
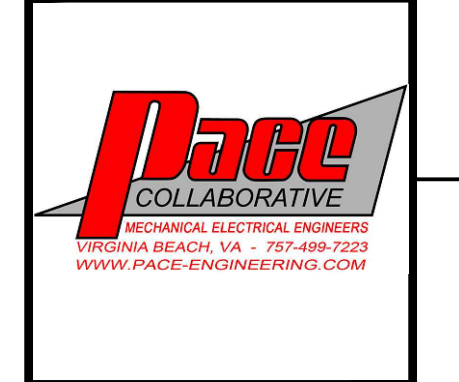


B3 PARTIAL SOUTH WING ELEVATORS AND MACHINE ROOM
 G-101/SCALE: 1/2" = 1'-0"

NOTES THIS SHEET

- 1 PROVIDE CODE COMPLIANT CARTOP EMERGENCY EXIT HARDWARE AND SWITCHES.
- 2 REMOVE EXISTING ELEVATOR CONTROLLER AND ALL ASSOCIATED CONTROL WIRING. PATHWAY MAY BE RETAINED FOR REUSE IN NEW WORK. RETAIN EXTERNAL POWER, FIRE ALARM, TELEPHONE, AND PUMP UNIT FOR RE-CONNECTION. PROVIDE HYDRAULIC ELEVATOR CONTROLLER. CONNECT TO EXISTING POWER SUPPLY DISCONNECT AND EXISTING CAB LIGHTING CIRCUITS. CONNECT TO EXISTING FIRE ALARM RELAY MODULES RETAINED DURING DEMOLITION. CONNECT TO EXISTING 50HP, 480V, 3-PHASE HYDRAULIC ELEVATOR PUMPING UNIT. CONNECT TO EXISTING TELEPHONE COMMUNICATION LINE RETAINED DURING DEMOLITION. ELEVATOR CONTROLLER BASIS OF DESIGN STANDARDS ARE GAL MANUFACTURING, VIRGINIA CONTROLS, AND MOTION CONTROLS.
- 3 REMOVE EXISTING CAR OPERATING PANEL. PROVIDE CAR OPERATOR PANEL. PANEL MUST BE VANDAL RESISTANT AND COMPLY WITH ADA REQUIREMENTS. MATCH DEVICES AND ENGRAVING CONTAINED ON EXISTING OPERATING PANEL, SUCH AS, BUT NOT LIMITED TO, CAPACITY, "NO SMOKING", ETC.

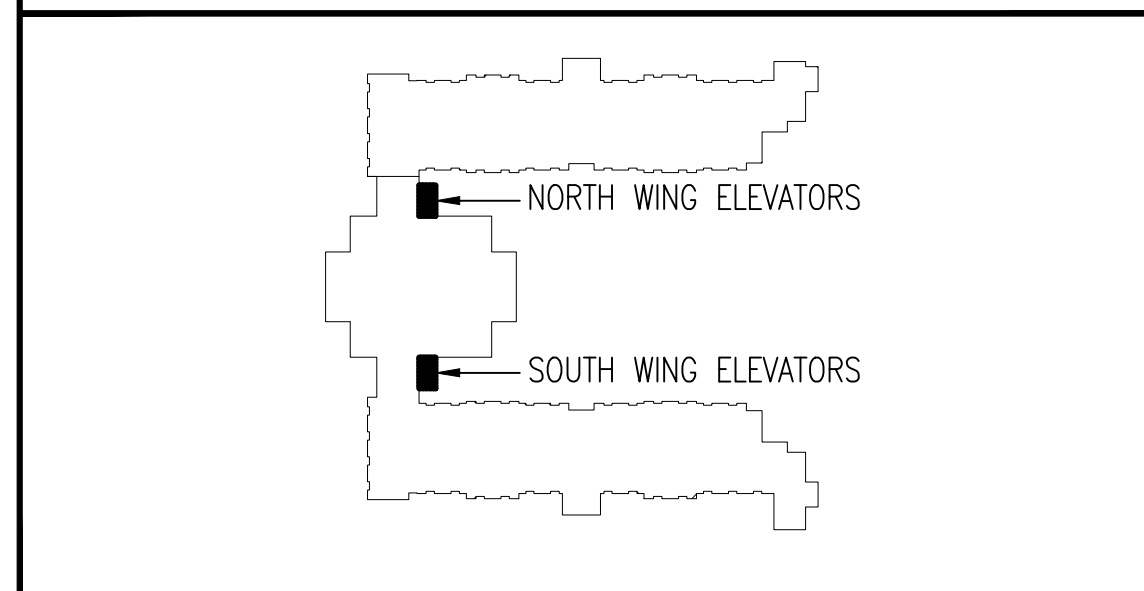
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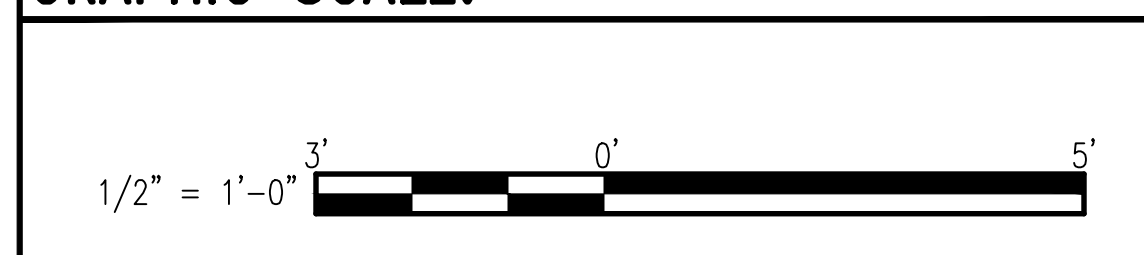
APPROVED: _____
 PER: COMMANDER NAVFAC
 ACTIVITY: _____
 SATISFACTORY TO: _____
 DES: GML | DRW: ADR | CHK: JEB

U.S. MARINE CORPS AIR STATION
 CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
 CHERRY POINT
 ENLARGED ELEVATOR AND MACHINE ROOM PLAN

KEYPLAN:



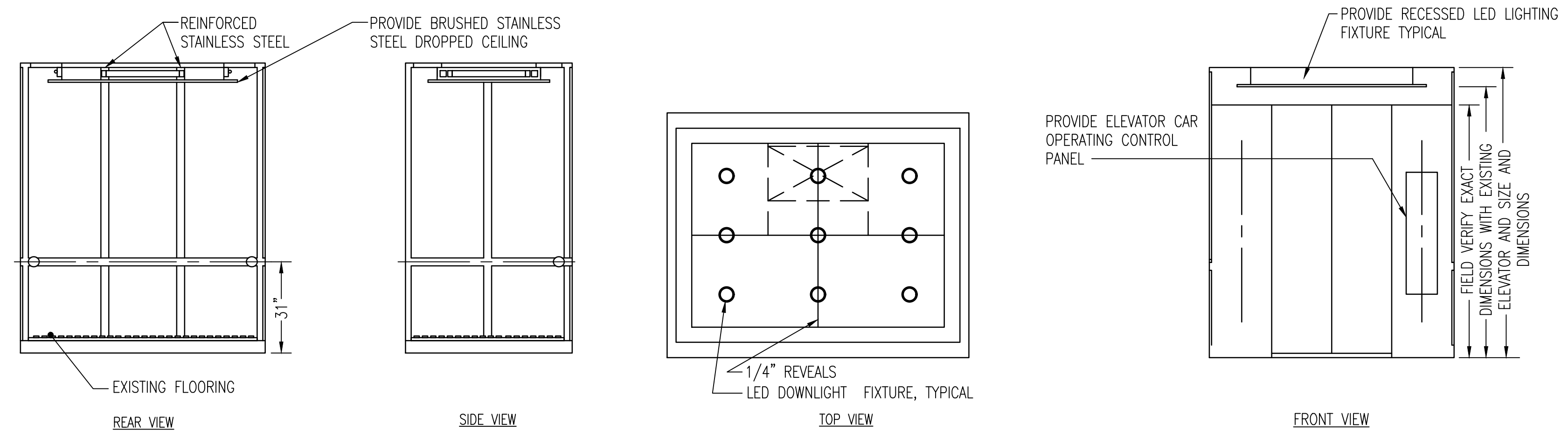
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SCALE: AS NOTED
PROJECT NO.: 6863656
MAXIMO WORK ORDER NO. 6863656
NAVFAC DRAWING NO. 12782876
SHEET 04 OF 15
G-401

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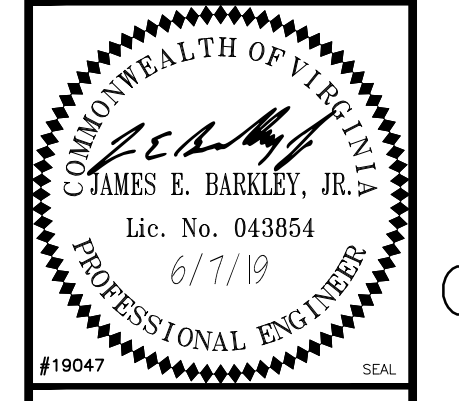
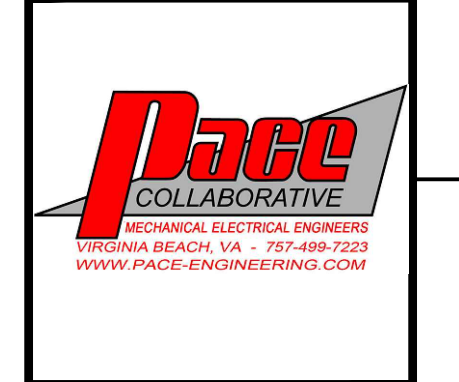
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- NOTES:**
1. LIGHTING SHALL BE DIMMABLE RECESSED LED DOWNLIGHTS. ADJUST QUANTITY TO SUIT SIZE OF CAR. ADJUST LIGHT LEVEL TO SUIT OWNERS PREFERENCE.
 2. DIMENSIONS ON DETAIL ARE APPROXIMATE. COORDINATE WITH EXISTING ELEVATOR HOISTWAY AND ELEVATOR CAR.
 3. SEE SPECIFICATION FOR FURTHER INFORMATION.

C2 ELEVATOR CAR DETAIL - TYPICAL
NO SCALE

NO.	DESCRIPTION	DATE	APPR.



A/E INFO

APPROVED

FIR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES JAK | DRW MTF | CHK JEB

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
CHERRY POINT
ELEVATOR DETAILS

SCALE: **AS NOTED**
PROJECT NO.: **6863656**
MAXIMO WORK ORDER NO. **6863656**
NAVFAC DRAWING NO. **12782877**
SHEET **05** OF **15**
G-501

D

C

B

A

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C

B

A

GENERAL NOTES

GENERAL ITEMS

GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH HVAC DRAWING OF THIS SET. SEE EACH DRAWING FOR SPECIFIC NOTES APPLICABLE TO THAT DRAWING.

OVERHEAD PIPING IN SPACES WITHOUT HUNG CEILINGS SHALL BE RUN AS CLOSE TO ROOF DECK OR STRUCTURE ABOVE, AS PRACTICAL, AS CLOSE TO PARALLEL JOISTS AS POSSIBLE AND ABOVE LIGHTING FIXTURES TO CONCEAL PIPING.

OVERHEAD PIPING IN SPACES WITH CEILINGS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

PROVIDE PIPE SLEEVES LARGE ENOUGH TO ALLOW FOR REQUIRED LATERAL MOVEMENT OF PIPING.

ARRANGE PIPING, PARTICULARLY ABOVE CEILING AS REQUIRED TO CLEAR STRUCTURE, DUCTS, CONDUITS, ETC. ALLOWING SPACE FOR PIPE HANGERS, AND ACCESS TO VALVES, FILTERS, AND MAINTENANCE OF EQUIPMENT.

CONTRACTOR SHALL VERIFY REFRIGERANT PIPE SIZES WITH EQUIPMENT MANUFACTURER FOR THE INDICATED INSTALLATION.

COORDINATE LOCATION AND INSTALLATION OF EQUIPMENT WITH OTHER TRADES.

DO NOT SCALE DRAWINGS. LOCATIONS OF DOORS, WINDOWS, ETC. ARE APPROXIMATE.

THERMOSTATS SHALL BE LOCATED IN THE ROOMS INDICATED. INSTALL AT APPROX. 46" ABOVE FINISH FLOOR TO MATCH THE HEIGHT OF WALL SWITCHES OR OTHER WALL MOUNTED DEVICES.

PIPING, EXTENDING THROUGH EXTERIOR WALLS SHALL BE FLASHED AND COUNTER FLASHED IN A WEATHERPROOF MANNER.

VALVES AND SPECIALTIES SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.

EXTEND DRAIN LINES AS INDICATED. ROUTING SHALL NOT INTERFERE WITH PASSAGEWAYS AND MAINTENANCE. DRAINS FROM AIR CONDITIONING CONDENSATE DRAIN PANS SHALL BE TRAPPED. SLOPE CONDENSATE DRAIN PIPING AT 1/4" PER FOOT. VERIFY INVERT IS ESTABLISHED AFTER AIR HANDLING UNIT IS INSTALLED.

PIPING INSULATION SHALL BE RUN CONTINUOUSLY THROUGH NON-RATED WALLS AND PARTITIONS, UNLESS OTHERWISE INDICATED.

NO PIPING SHALL BE SMALLER THAN 3/4" UNLESS OTHERWISE NOTED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL SUPPORTS OR HANGERS SHALL BE INSTALLED ADJACENT TO ELBOWS TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT.

LOCATE AND SIZE CONCRETE PADS FOR MECHANICAL EQUIPMENT IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED.

FOR LOCATION OF MOTOR STARTERS, SEE ELECTRICAL DRAWINGS.

MAINTENANCE

EQUIPMENT WITH FILTERS SHALL BE INSTALLED SO THAT FILTERS CAN BE EASILY REMOVED AND REPLACED.

PROVIDE ACCESS TO ANY INSPECTION OR MAINTAINABLE DEVICE, EQUIPMENT, ETC. - ACCESS OR ACCESS DOOR SHALL BE OF ADEQUATE SIZE TO WORK ON DEVICE.

EXAMINE MANUFACTURER'S LITERATURE TO DETERMINE RECOMMENDED CLEARANCES. THESE CLEARANCES, IN ADDITION TO MINIMUM CLEARANCES REQUIRED BY THE NATIONAL ELECTRICAL CODE, SHALL BE ESTABLISHED AND MAINTAINED. THIS APPLIES TO NEW AND EXISTING EQUIPMENT IMPACTED BY THIS PROJECT AS WELL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE REQUIREMENTS WITH ALL OTHER TRADES.

INTERDISCIPLINARY COORDINATION

IF THIS CONTRACTOR SHOULD ELECT TO PROPOSE ANY EQUIPMENT THAT HAS DIFFERENT PHYSICAL OR ELECTRICAL CHARACTERISTICS, ETC. WHEN COMPARED TO THE BASIS OF DESIGN EQUIPMENT, THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATING THESE CHANGES WITH THE OTHER TRADES PRIOR TO ORDERING OF EQUIPMENT. IF THERE SHOULD BE ANY ADDITIONAL WORK INCURRED BY THE OTHER TRADES AS A RESULT OF THIS CONTRACTOR'S EQUIPMENT SELECTION, ALL COSTS ASSOCIATED WITH THE ADDITIONAL WORK SHALL BE BORNE BY THIS CONTRACTOR.

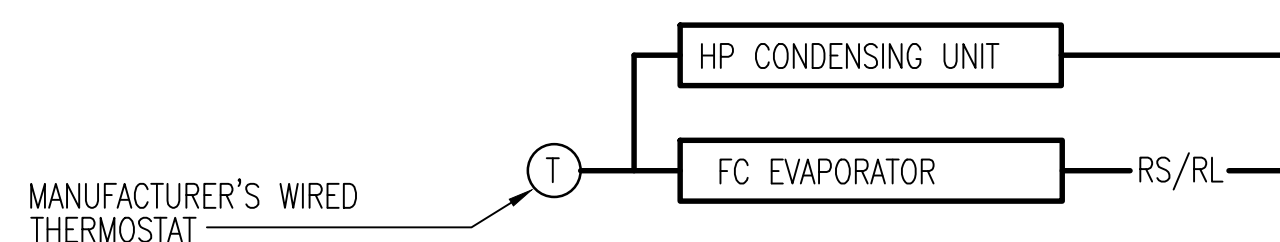
LEGEND and ABBREVIATIONS

1	NEW WORK NOTE DESIGNATION
FC 1-1A	DUCTLESS SPLIT SYSTEM DESIGNATION
HP 1-1A	HEAT PUMP DESIGNATION
⊙	WALL THERMOSTAT
⊙	PIPE TURNING UP
⊙	PIPE TURNING DOWN
—D—	CONDENSATE DRAIN
—RL—	REFRIGERANT LIQUID PIPING
—RS—	REFRIGERANT SUCTION PIPING
ADJ.	ADJUSTIBLE
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
APPROX	APPROXIMATELY
B.O.P.	BOTTOM OF PIPE
CFM	CUBIC FEET PER MINUTE
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB TEMPERATURE
DSS	DUCTLESS SPLIT SYSTEM
EAT	ENTERING AIR TEMPERATURE
EWB	ENTERING WET BULB TEMPERATURE
ETR	EXISTING TO REMAIN
ESP	EXTERNAL STATIC PRESSURE
FT	FEET
IN	INCH
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MIN CIRCUIT AMPACITY
MIN	MINIMUM
MOC	MAX OVERCURRENT PROTECTION
NC	NOISE CRITERIA
PD	PRESSURE DROP
SEER	SEASONAL ENERGY EFFICIENCY RATING
SENS	SENSIBLE
(TYP)	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
∅	PHASE/DIAMETER
*F	DEGREE FAHRENHEIT

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE																			
TAG	LOCATION	TOTAL COOLING CAPACITY M.B.H.	SEER	COIL E.A.T.		FAN DATA	HEATING DATA			ELECTRICAL DATA INDOOR UNIT				TAG	ELECTRICAL DATA OUTDOOR UNIT				REMARKS
				*F D.B.	*F W.B.	SUPPLY AIR C.F.M.	TOTAL M.B.H.	COP	E.A.T. (*F)	M.C.A.	M.O.C.P.	VOLTS	PHASE		M.C.A.	M.O.C.P.	VOLTS	PHASE	
FC 1-3A	RM 113	34.2	16.2	80.0	67.0	730	37.0	3.27	70.0	INDOOR UNIT POWERED BY OUTDOOR UNIT				HP 1-3A	28	40	208	1	SEE NOTES
FC 1-5A	RM 118	34.2	16.2	80.0	67.0	730	37.0	3.27	70.0	INDOOR UNIT POWERED BY OUTDOOR UNIT				HP 1-5A	28	40	208	1	SEE NOTES

NOTES:

- SELECTIONS BASED ON MITSUBISHI.
- COOLING CAPACITY BASED ON 95° F AMBIENT.
- PROVIDE INDOOR UNIT WITH COIL FREEZE PROTECTION, WIRED REMOTE MOUNTED THERMOSTAT, CONDENSATE PUMP, AND HIGH SIDE WALL CASSETTE CONFIGURATION.
- PROVIDE OUTDOOR UNIT WITH LOW AMBIENT CONTROL.



FC 1-3A, 1-5A (NON-DDC)
NO SCALE

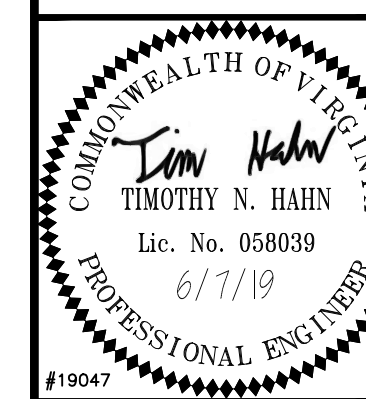
DUCTLESS SPLIT SYSTEM - SEQUENCE OF OPERATION

COOLING: UNIT SHALL BE CONTROLLED BY THE MANUFACTURER'S INTEGRAL THERMOSTAT. WHEN THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT (75°F, ADJ.), THE THERMOSTAT SHALL ENERGIZE THE DSS UNITS AND ENERGIZE THE INDOOR UNIT SUPPLY FAN. WHEN THE SPACE TEMPERATURE DROPS BELOW THE THERMOSTAT SETPOINT, THE OPPOSITE SHALL OCCUR.

HEATING: UPON A FALL IN SPACE TEMPERATURE BELOW HEATING SETPOINT (68°F, ADJ.), THE THERMOSTAT SHALL ENERGIZE THE INDOOR UNIT SUPPLY FAN AND OUTDOOR COMPRESSORS. UPON A RISE IN SPACE TEMPERATURE ABOVE HEATING SETPOINT, THE OPPOSITE SHALL OCCUR.

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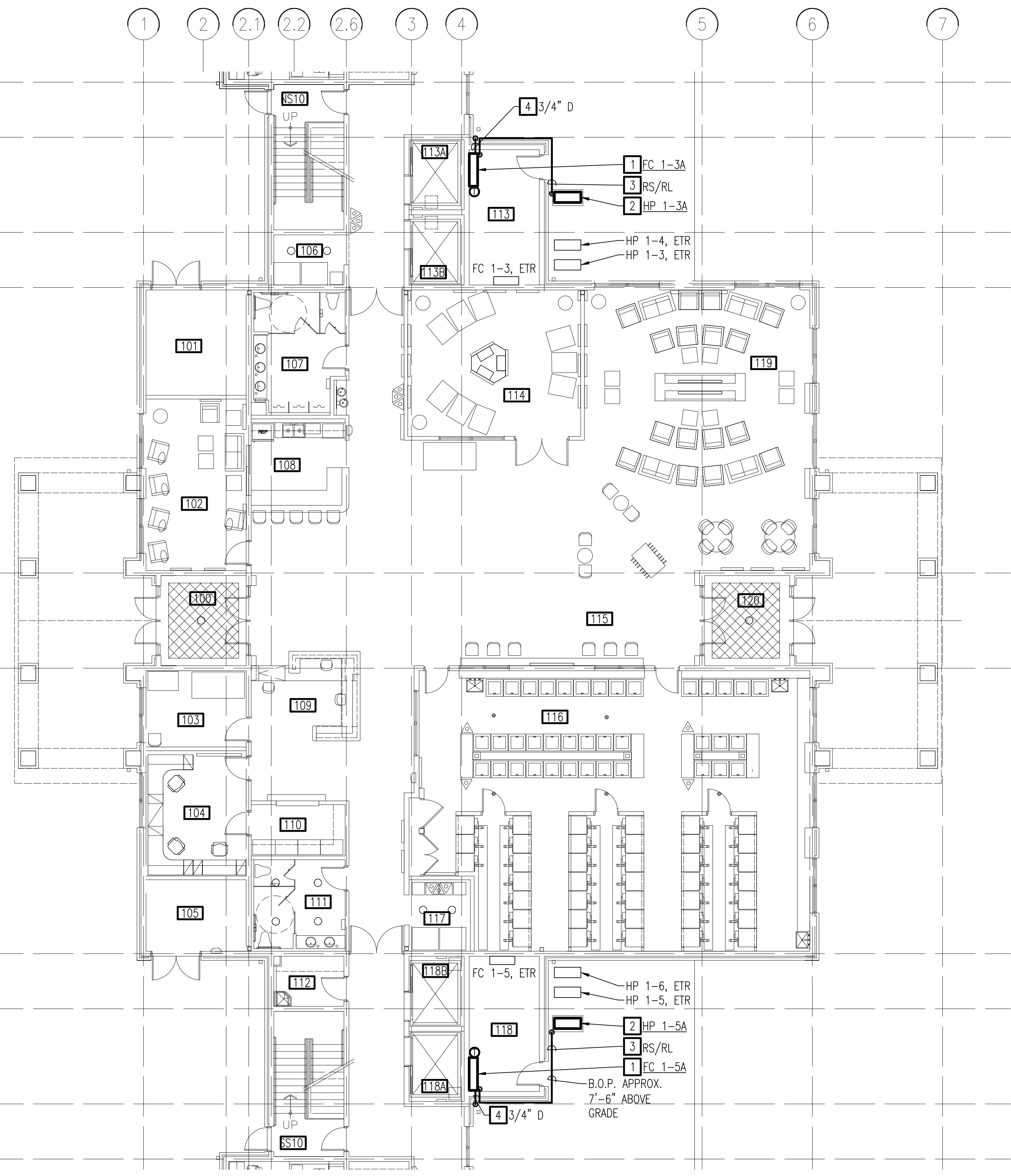
DES: TNH | DRW: CML | CHK: JAK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
CHERRY POINT
GENERAL NOTES, LEGEND, ABBREVIATIONS, SCHEDULES, AND CONTROLS

SCALE: AS NOTED
PROJECT NO.: 6863656
MAXIMO WORK ORDER NO. 6863656
NAVFAC DRAWING NO. 12782878
SHEET 6 OF 15
M-001

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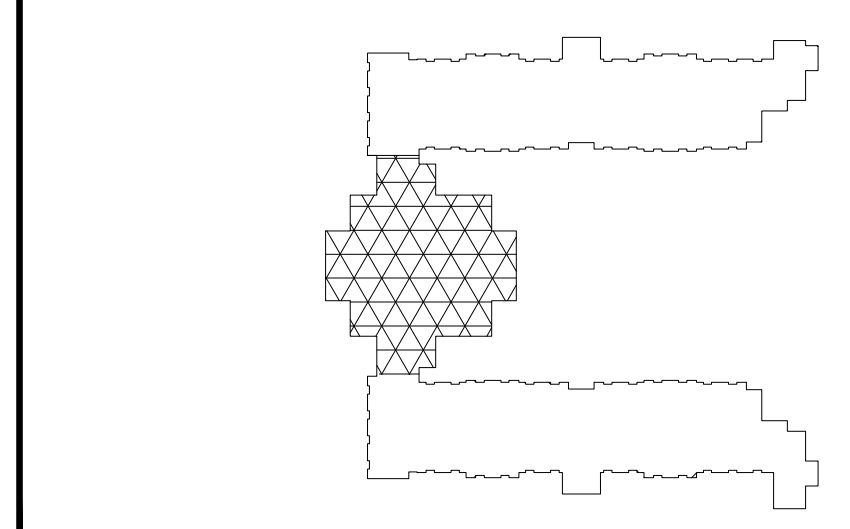


WORK NOTES THIS SHEET

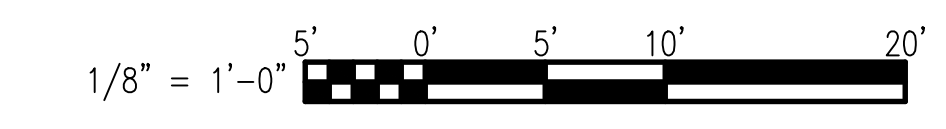
- 1 PROVIDE DUCTLESS SPLIT SYSTEM INDOOR UNIT COMPLETE.
- 2 PROVIDE DUCTLESS SPLIT SYSTEM OUTDOOR UNIT AND CONCRETE PAD COMPLETE.
- 3 PROVIDE RS/RL PIPING, INSULATION, JACKETING, HANGERS, AND SUPPORTS COMPLETE. SEE PIPE SUPPORT DETAIL.
- 4 PROVIDE CONDENSATE DRAIN PIPING, INSULATION, JACKETING, HANGERS, AND SUPPORTS COMPLETE. SEE PIPE SUPPORT DETAIL.

ROOM SCHEDULE	
100	VEST
101	ELECTRICAL
102	STUDY LOUNGE
103	DUTY BUNK
104	BEG MGR
105	COMM
106	VEND/RECYCLE
107	MEN
108	KITCHEN
109	RECEPTION
110	LINEN STORAGE
111	WOMEN
112	JAN
113A	ELEVATOR
113B	ELEVATOR
113	ELEV EQUIP
114	GAMING
115	MULTI-PURPOSE ROOM
116	LAUNDRY
117	VEND/RECYCLE
118A	ELEVATOR
118B	ELEVATOR
118	ELEV EQUIP
119	TV
120	VEST
SS101	STAIR 1
NS101	STAIR 1

KEYPLAN:

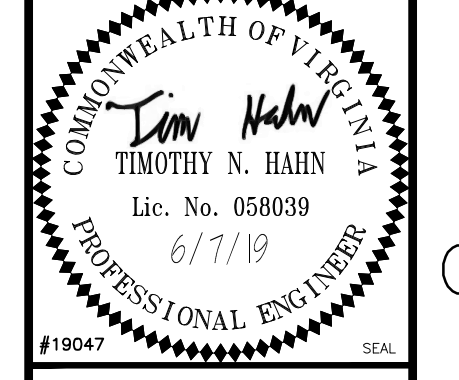


GRAPHIC SCALE:



MECHANICAL PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DATE	DESCRIPTION	BY	APPR



APPROVED	A/E: [Signature]
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO	
DES: TNH DRW: CML CHK: JAK	

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
CHERRY POINT
MECHANICAL PARTIAL FLOOR PLAN

SCALE: AS NOTED
PROJECT NO.: 6863656
MAXIMO WORK ORDER NO. 6863656
NAVFAC DRAWING NO. 12782879
SHEET 7 OF 15

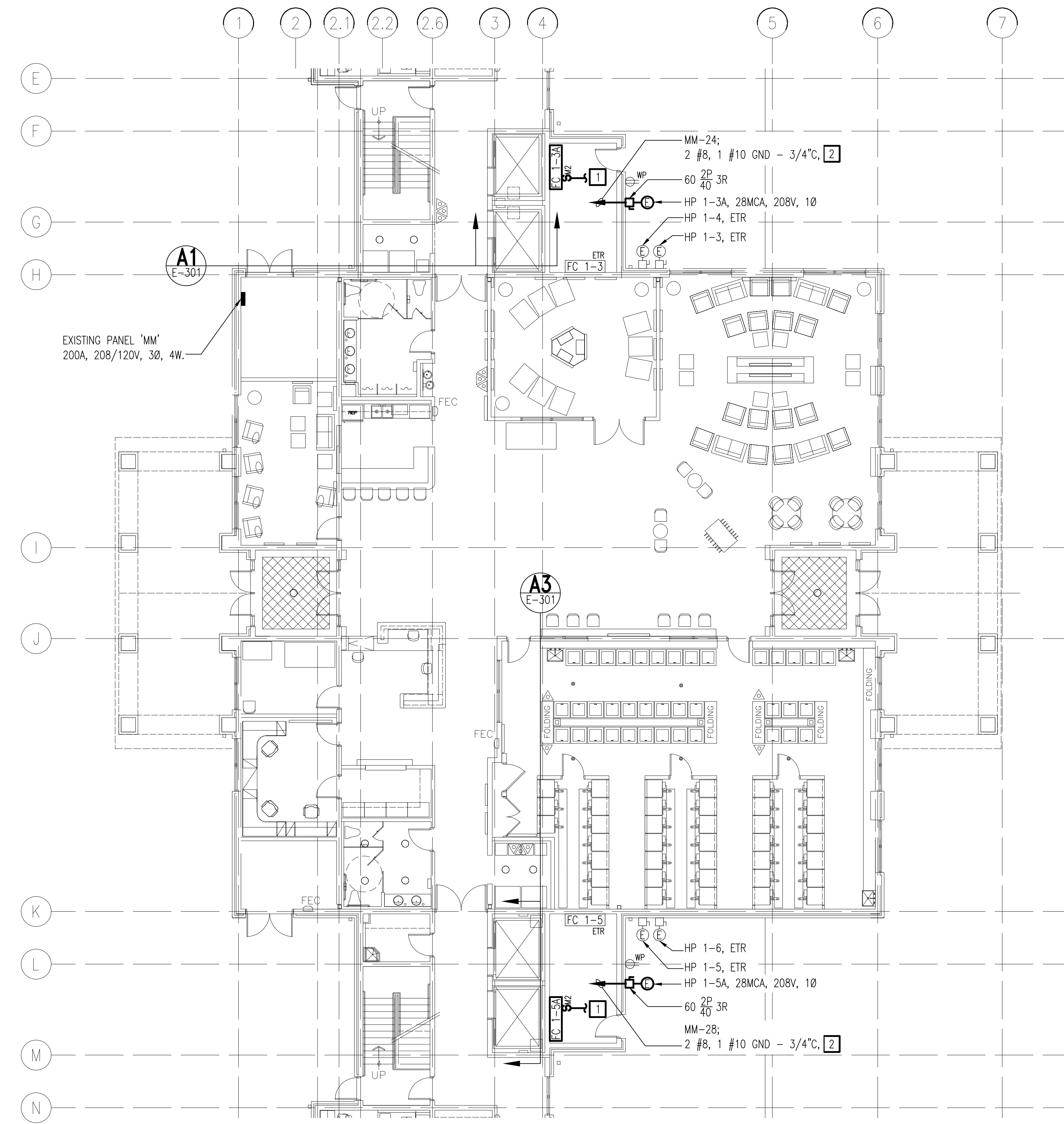
M-101

WORK NOTES THIS SHEET

- 1 INDOOR UNIT POWERED BY OUTDOOR UNIT.
PROVIDE 2 #12, 1 #12 GND-1/2"C
- 2 REMOVE EXISTING 1P-20A BREAKERS IN EXISTING
2 #12, 1 #12 GND-1/2"C LOCATION INDICATED. PROVIDE 40A/2P
BREAKER IN SPACE MADE AVAILABLE.

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EXISTING PANEL 'MM'
200A, 208/120V, 3Ø, 4W.

A1
E-301

A3
E-301

MM-24;
2 #8, 1 #10 GND - 3/4"C, 2

60 2P 3R
40

HP 1-3A, 28MCA, 208V, 1Ø

HP 1-4, ETR

HP 1-3, ETR

FC 1-3A

FC 1-3

HP 1-6, ETR

HP 1-5, ETR

HP 1-5A, 28MCA, 208V, 1Ø

60 2P 3R
40

MM-28;

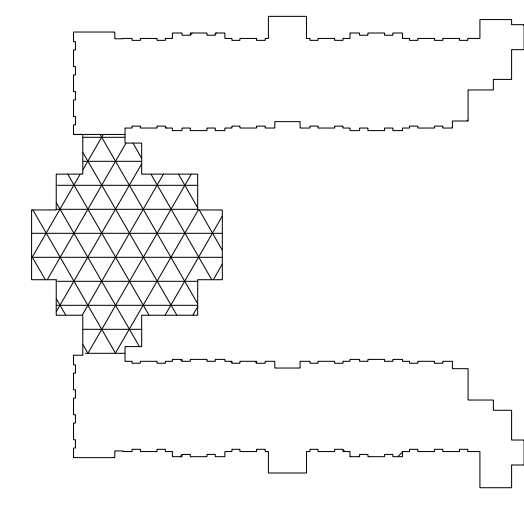
2 #8, 1 #10 GND - 3/4"C, 2

FC 1-5A

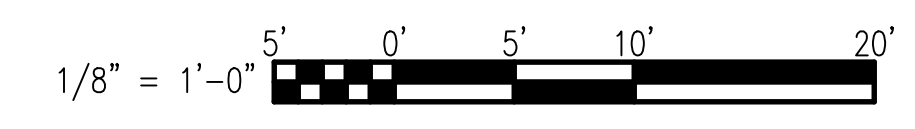
FC 1-5 ETR

PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

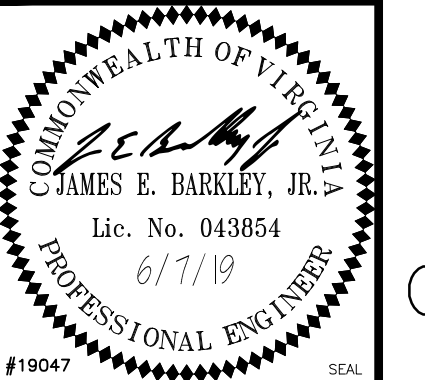
KEYPLAN:



GRAPHIC SCALE:



DATE	DESCRIPTION	BY	APPR



APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

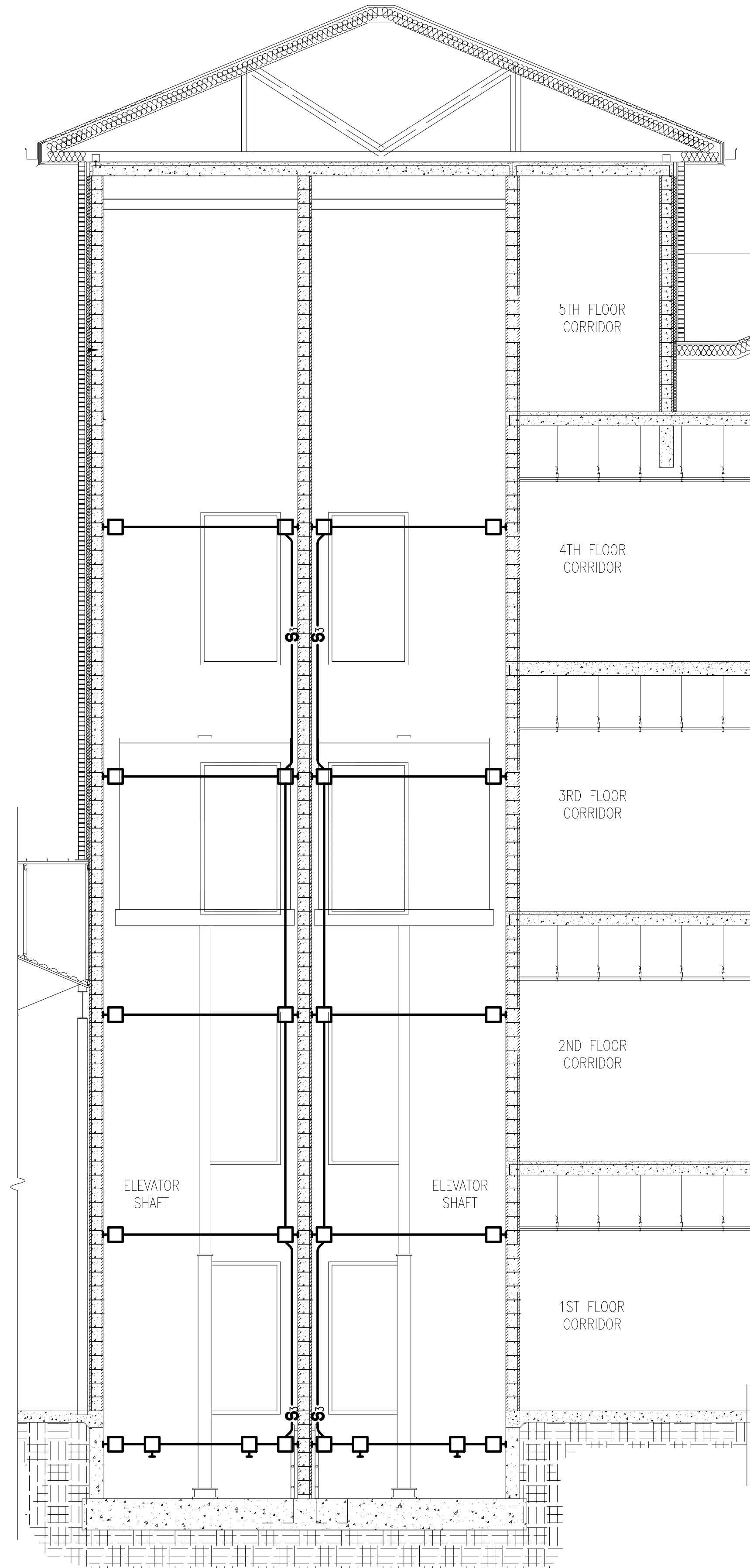
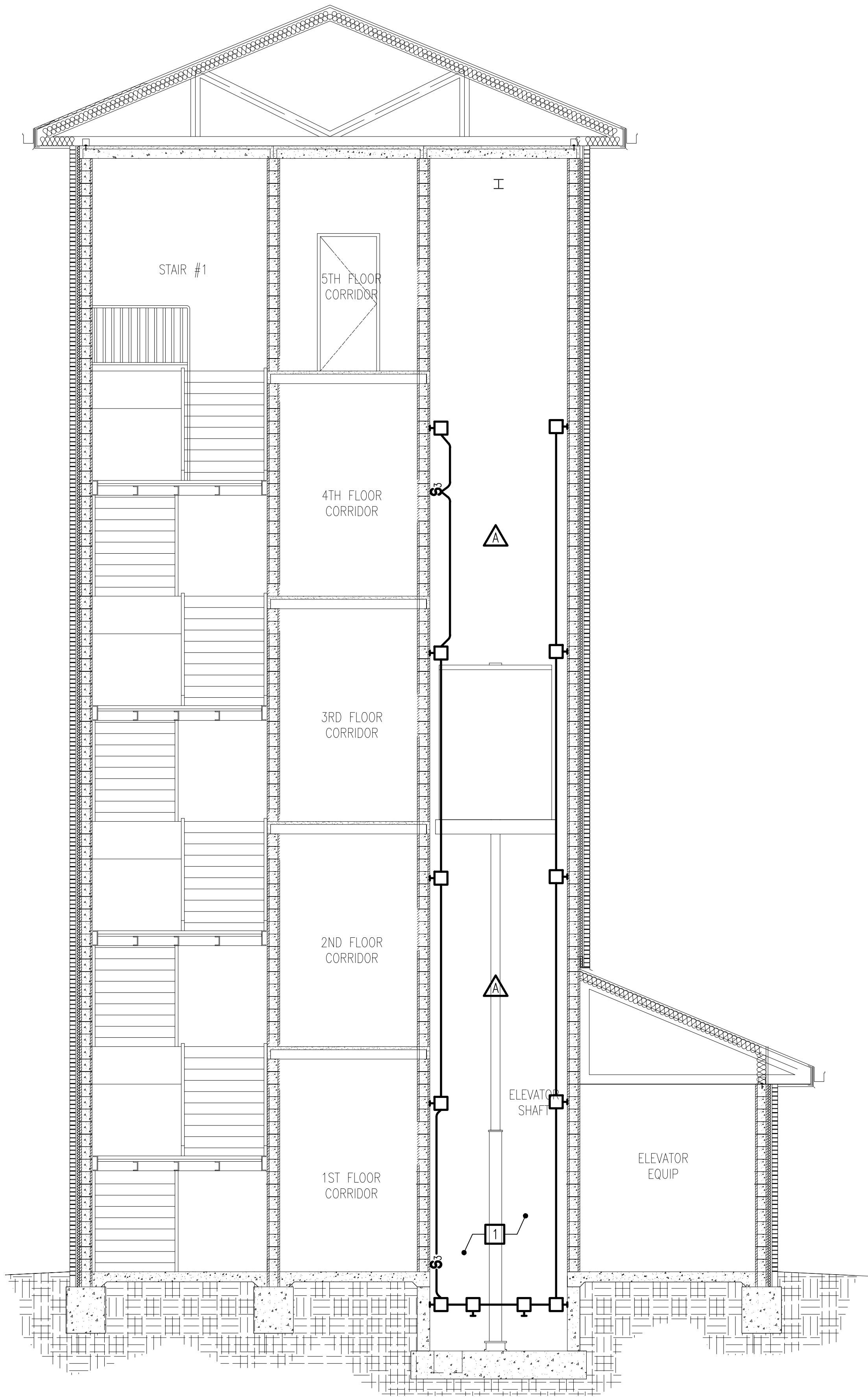
SATISFACTORY TO
DES JAK DRW MTF CHK JEB

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
CHERRY POINT
PARTIAL FLOOR PLAN

SCALE: AS NOTED
PROJECT NO.: 6863656
MAXIMO WORK ORDER NO.
6863656
NAVFAC DRAWING NO.
12782882
SHEET 10 OF 15
E-102

NOTES THIS SHEET

- 1 REMOVE EXISTING PIT LIGHT FIXTURES AND SWITCH. RETAIN CIRCUIT FOR REUSE. PROVIDE LUMINAIRES AND SWITCHING AS INDICATED. TYPICAL FOR EACH ELEVATOR SHAFT.



A1 ELEVATOR SHAFT SECTION - TYPICAL NORTH WING ELEVATORS

E-102 SCALE: 1/4" = 1'-0"

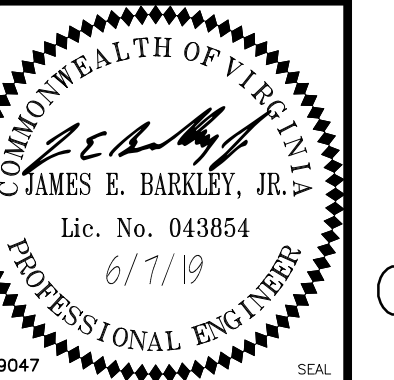
A3 ELEVATOR SHAFT SECTION - TYPICAL SOUTH WING ELEVATORS

E-102 SCALE: 1/4" = 1'-0"

GRAPHIC SCALE:



DATE	DESCRIPTION	APPR



APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES JAK DRW MTF CHK JEB

U.S. MARINE CORPS AIR STATION
 CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
 CHERRY POINT
 ELEVATOR SHAFT SECTIONS

SCALE: AS NOTED
PROJECT NO.: 6863656
MAXIMO WORK ORDER NO. 6863656
NAVFAC DRAWING NO. 12782883
SHEET 11 OF 15
E-301

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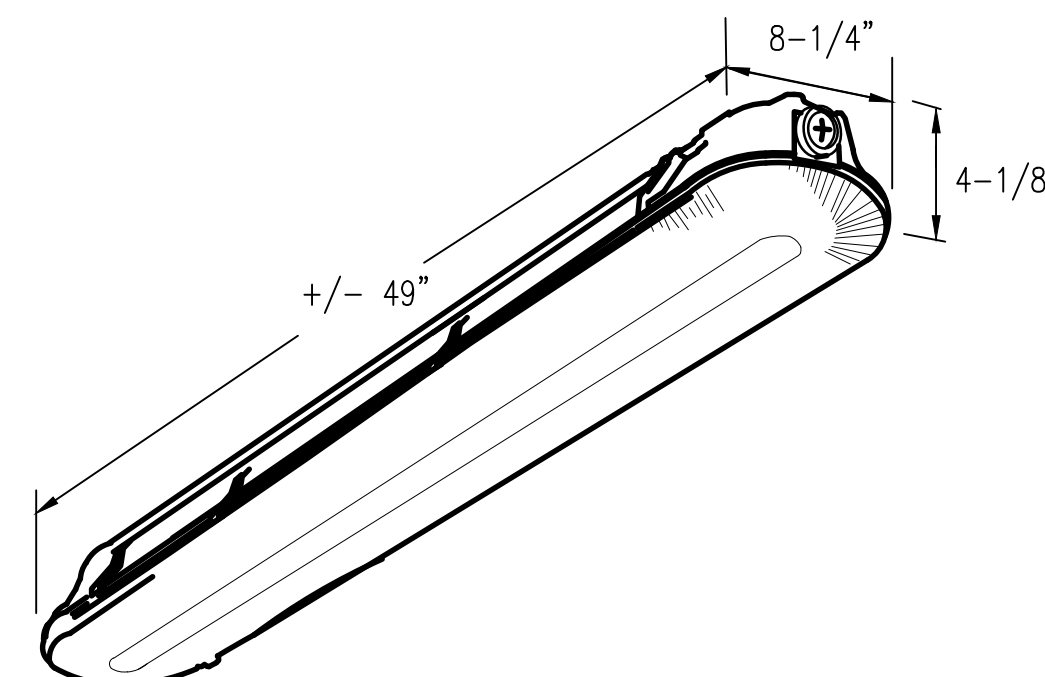
UNCLASSIFIED//FOR OFFICIAL USE ONLY

D

C

B


A



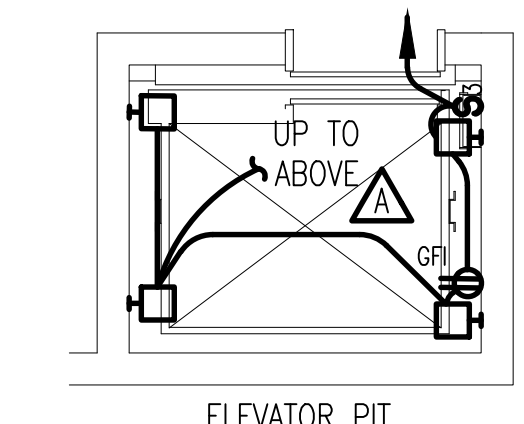
LUMINAIRE REQUIREMENTS

1. HOUSING SHALL BE WHITE MOLDED HIGH IMPACT RESISTANT, UV STABILIZED, REINFORCED POLYCARBONATE.
2. LENS SHALL BE A HIGH IMPACT, CLEAR POLYCARBONATE LENS WITH ASYMETRICAL BEAM DISTRIBUTION.
3. HIGH OUTPUT LED, PROVIDE WITH HIGH EFFICIENCY DRIVER.
4. FIXTURE SHALL BE FULLY GASKETED.
5. PROVIDE WITH STAINLESS STEEL MOUNTING BRACKETS.CB
6. IP65 RATED AND UL APPROVED FOR WET LOCATIONS.
7. CLOSELY COORDINATE LOCATION OF FIXTURES WITH ELEVATOR CONTRACTOR. FIXTURES MAY BE MOUNTED VERTICALLY TO ADAPT FOR SPACE LIMITATIONS.

DETAIL BASED ON LITHONIA, "VAP LED" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	6630	4000K LED	62W	120/277	SURFACE, HORIZONTAL/VERTICAL AS REQUIRED

WET LOCATION LED FIXTURE

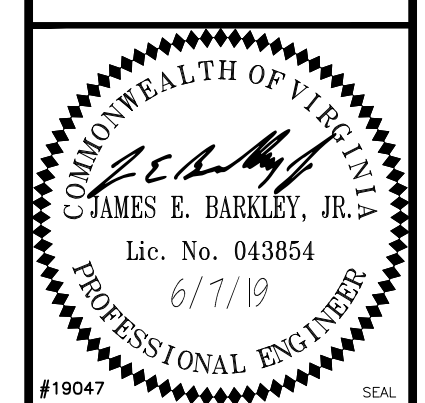


NOTES:

1. DEVICES IN ELEVATOR PIT MOUNTED LESS THAN 48" ABOVE THE PIT FLOOR MUST BE IN NEMA 4 ENCLOSURES. ALL WIRING MUST BE SUITABLE FOR WET LOCATION USE IN ACCORDANCE WITH THE NEC AND OTHER APPLICABLE CODES.

TYPICAL ELEVATOR PIT POWER AND LIGHTING DETAIL
NO SCALE

DATE	DESCRIPTION	SW	APPR



APPROVED	A/E: INF3			
FIR COMMANDER NAVFAC				
ACTIVITY				
SATISFACTORY TO				
DES	DRW	MTF	CHK	JEB

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
CHERRY POINT
FIXTURE PLATES AND DETAILS

SCALE:	AS NOTED
PROJECT NO.:	6863656
MAXIMO WORK ORDER NO.	6863656
NAVFAC DRAWING NO.	12782884
SHEET	12 OF 15
E-501	

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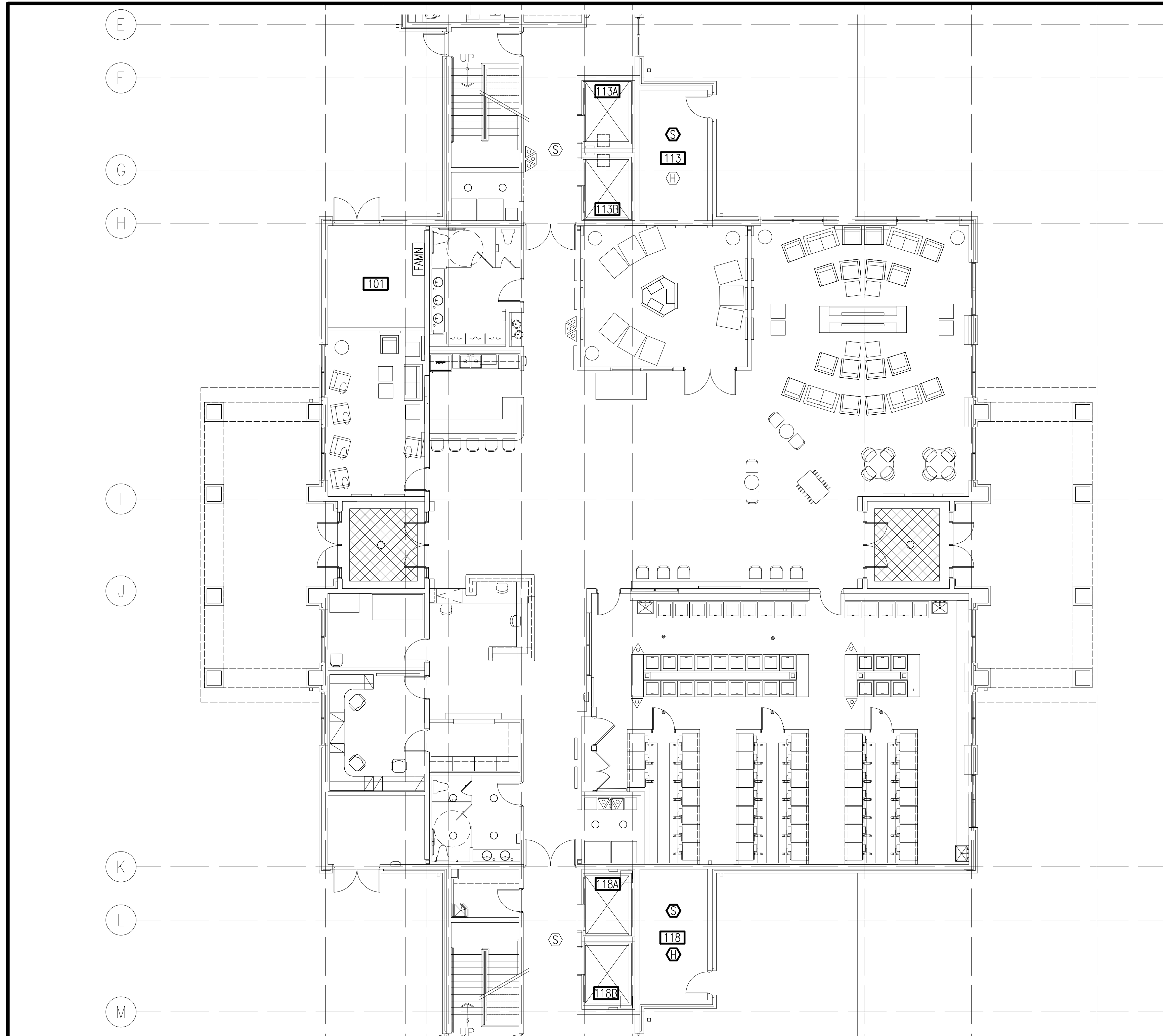
D

C

B

A

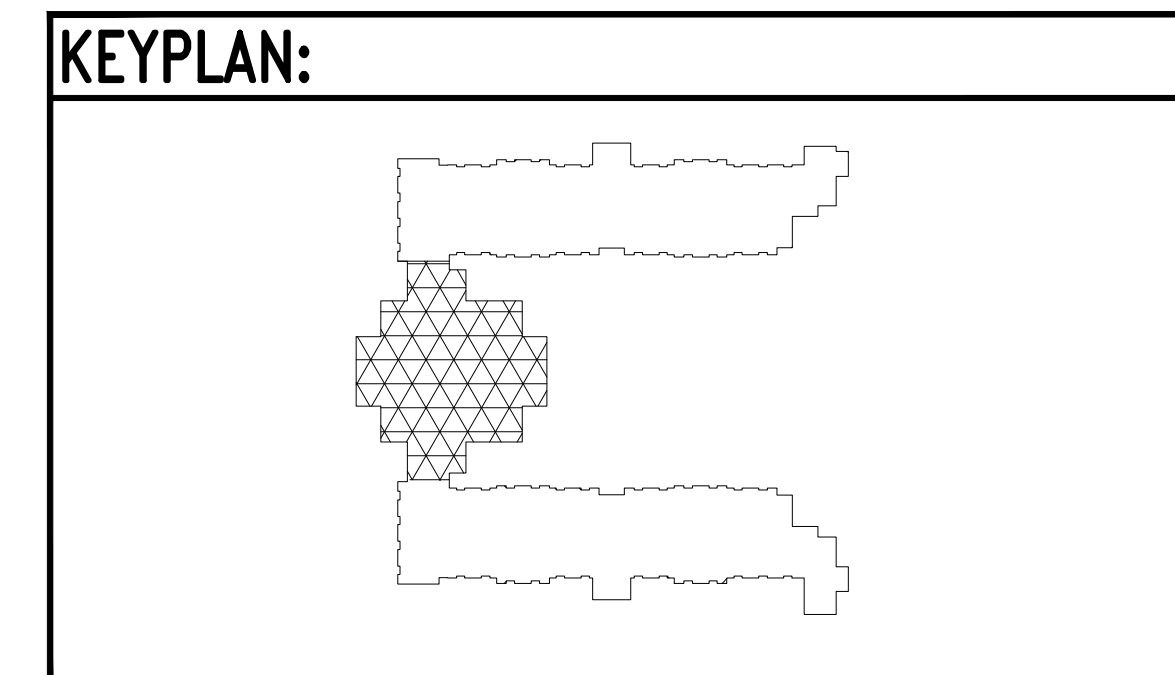
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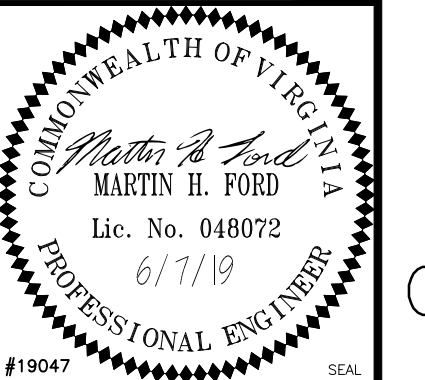
PARTIAL FLOOR PLAN
 SCALE: 1/8" = 1'-0"

PARTIAL 1ST FLOOR ROOM SCHEDULE

101	ELECTRICAL
113	ELEVATOR MACHINE ROOM
113A	ELEVATOR 'A'
113B	ELEVATOR 'B'
118	ELEVATOR MACHINE ROOM
118A	ELEVATOR 'A'
118B	ELEVATOR 'B'



DATE	DESCRIPTION	APP'R



APPROVED

PER COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

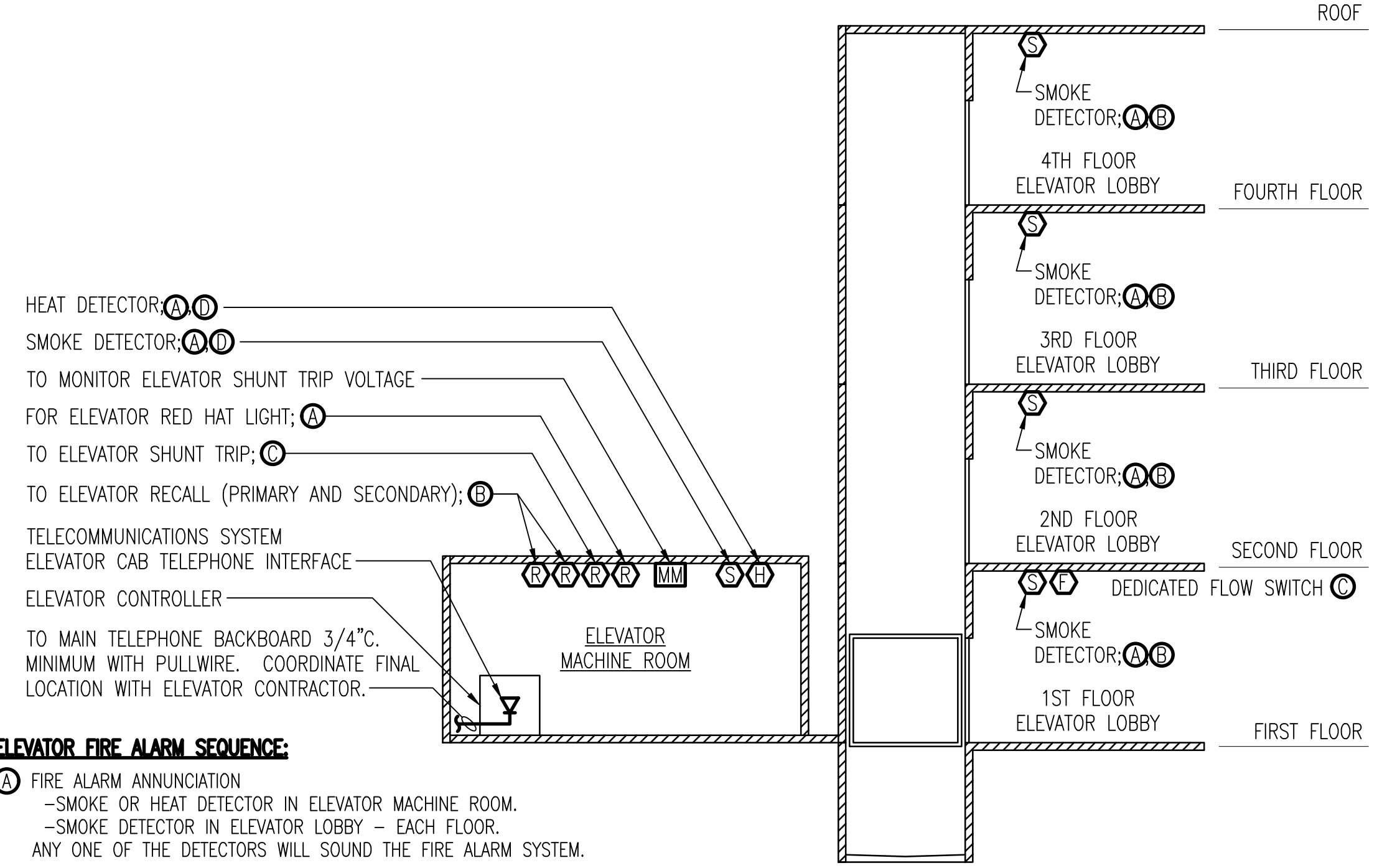
DES: CRW | DRW: CAR | CHK: MHF

U.S. MARINE CORPS AIR STATION
 CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
 CHERRY POINT
 PARTIAL FLOOR PLAN

SCALE: AS NOTED
PROJECT NO.: 6863656
MAXIMO WORK ORDER NO. 6863656
NAVFAC DRAWING NO. 12782886
SHEET 14 OF 15
FA101

FIRE ALARM AND MNS MONITORING NOTES

1. THE FACP/FMCP IS A COMBINED FIRE ALARM AND MASS NOTIFICATION SYSTEM BY NOTIFIER.
2. THE FIRE ALARM AND DETECTION SYSTEM IS FULLY COMPLIANT WITH THE CURRENT EDITIONS OF UFC 3-600-01, UFC 3-600-10N, UFC 4-021-01, AND NFPA 72 FOR A FIRE ALARM AND AN EMERGENCY VOICE ALARM COMMUNICATION SYSTEM. THE SYSTEM IS INTERFACED WITH THE SITE MNS.
3. THE FACP IS CAPABLE OF ACCEPTING 10 VOLTS ROOT MEAN SQUARED (VRMS), 25 VRMS, 70.7 VRMS AND/OR LINE LEVEL (.707 VRMS) AUDIO INPUTS.
4. FACP IS CONFIGURED TO ACCEPT DRY CONTACT INPUT FROM THE TRX-401 INTERFACE TO ALERT THE FIRE ALARM PANEL THAT AN MNS MESSAGE IS FORTHCOMING. THE FIRE ALARM PANEL IS CONFIGURED SO THAT WHILE THIS INPUT IS ACTIVE (CONTACT CLOSED) THE FIRE ALARM PANEL WILL ROUTE AUDIO PROVIDED BY THE MNS INTERFACE DIRECTLY TO ALL CONNECTED FIRE ALARM SPEAKERS. THE SYSTEM IS PROGRAMMED SO THIS EXTERNAL AUDIO INPUT WILL RECEIVE HIGHEST PRIORITY AND OVERRIDE ALL FIRE ALARM NOTIFICATION SO LONG AS THE INPUT IS ACTIVE. WHEN THE INPUT GOES INACTIVE (CONTACT OPEN) THE EXTERNAL AUDIO ROUTING WILL CEASE AND THE FIRE ALARM PANEL WILL AUTOMATICALLY RETURN TO THE PRIOR NOTIFICATION PROGRAM THAT WAS ACTIVE BEFORE THE MNS MESSAGE.
5. FACP IS COMPATIBLE AND OPERABLE WITH THE EXISTING FIRE ALARM SUPERVISING STATION EQUIPMENT. EXISTING BASEWIDE FIRE ALARM REPORTING SYSTEM IS A FIBER NETWORK BASED REPORTING SYSTEM UTILIZING BOSCH COMMUNICATORS AND BOSCH D6600 RECEIVER WITH MICROKEY AUTOMATION SOFTWARE. THE SECONDARY MEANS OF TRANSMISSION IS OVER TELEPHONE LINES.
6. BOSCH COMMUNICATOR IS NOT LOCATED WITHIN THE FIRE ALARM CONTROL PANEL AND IS LOCATED IN A DEDICATED PANEL. COMMUNICATORS ARE POWERED BY THE BUILDING FIRE ALARM SYSTEM AND THE POWER CONNECTION MONITORED BY THE FIRE ALARM SYSTEM.
7. DACT IS EXISTING AND IS MAINTAINED AND CONFIGURED TO TRANSMIT SIGNALS IN CONTACT ID FORMAT.
8. SIGNALS TRANSMITTED OVER THE PRIMARY AND SECONDARY MEANS OF TRANSMISSION MUST BE POINT SPECIFIC WITH EACH ADDRESS AND CONDITION INDICATED AT THE FIRE ALARM PANEL TRANSMITTED SEPARATELY. ALL FIRE ALARMS, SUPERVISORY ALARMS, AND TROUBLE CONDITIONS MUST BE TRANSMITTED TO THE FIRE DEPARTMENT. CONNECTION TO THE FIRE ALARM REPORTING SYSTEM AND PROGRAMMING OF THE BOSCH COMMUNICATOR AND HEAD END EQUIPMENT HAS BEEN COORDINATED WITH THE FIRE ALARM REPORTING SYSTEM (FARS) ADMINISTRATOR. CONTACT THE FACILITY SYSTEM SERVICES OFFICE (FSSO) AT EMAIL: CHPT.FACSSO.OMB@USMC.MIL. TECHNICIAN MAKING SOFTWARE CHANGES MUST BE MICROKEY TRAINED/CERTIFIED. PROVIDE PROOF OF TRAINING/CERTIFICATION TO FASSO UPON REQUEST. ALL FIRE ALARM PANEL POINTS MUST BE PROGRAMMED AS INDIVIDUAL POINTS AT THE HEAD END. THE GOVERNMENT RANKING OFFICER IN CHARGE OF CONSTRUCTION (ROICC) IS RESPONSIBLE FOR PROVIDING POINT INFORMATION TO BE MONITORED BY THE GOVERNMENT'S RECEIVING EQUIPMENT (BOSCH 6600 PANEL) TO THE BASE PROGRAMMER. THE BASE PROGRAMMER WILL THEN REPROGRAM THE BASE MICROKEY REPORTING SOFTWARE.
9. PROVIDE A LAMINATED REVISED GRAPHIC FLOOR PLAN ADJACENT TO THE FACP DEPICTING ALL FIRE ALARM DEVICES AND EQUIPMENT WITHIN THE FACILITY.
10. SPAWAR POC:
 JEFF WOODARD (843) 218-5549 BIFF BROWN (843) 218-6292
 JEFF.WOODARD@NAVY.MIL ROBERT.K.BROWN1.CTR@NAVY.MIL



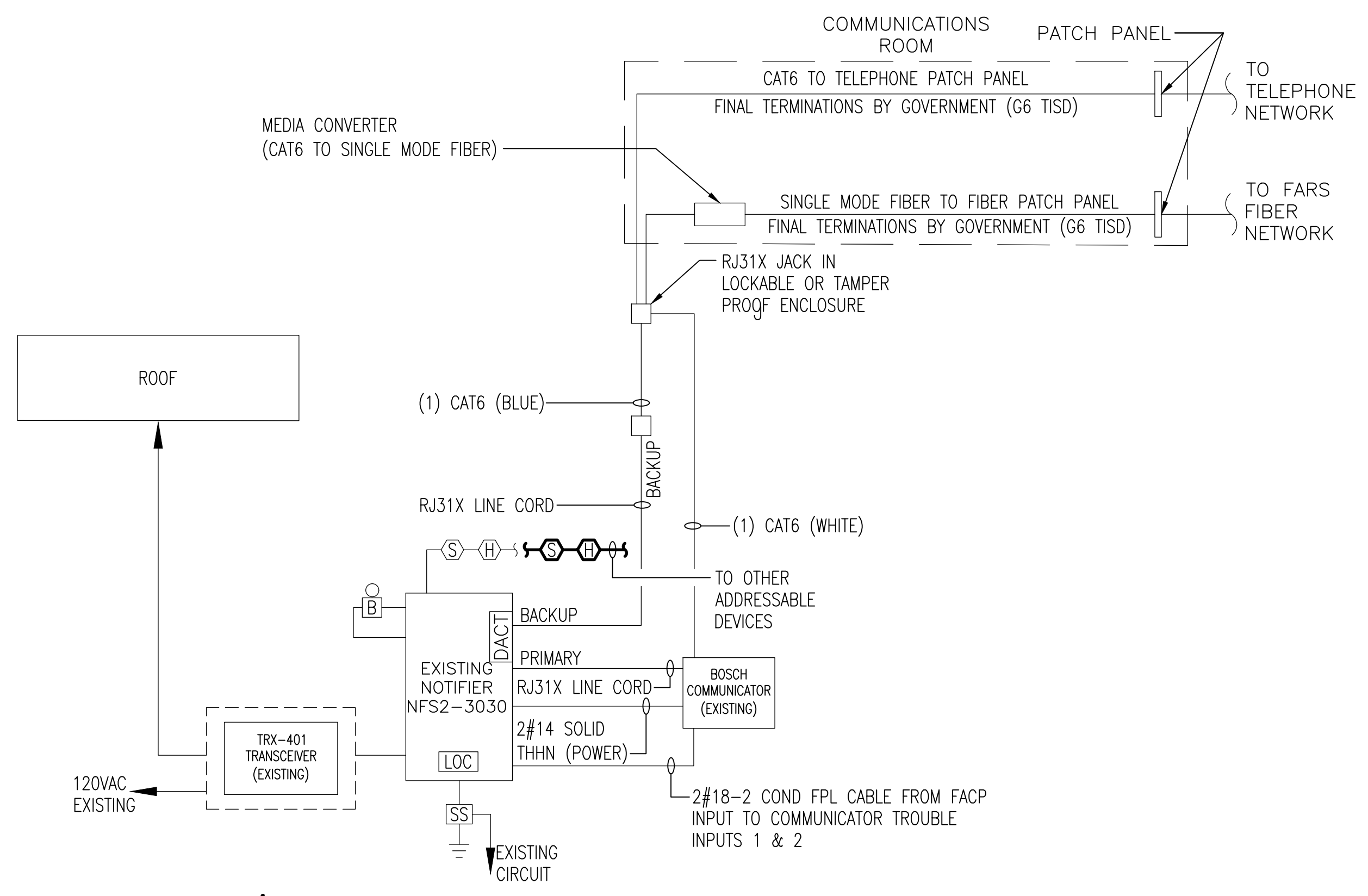
- ELEVATOR FIRE ALARM SEQUENCE:**
- A** FIRE ALARM ANNUNCIATION
 - SMOKE OR HEAT DETECTOR IN ELEVATOR MACHINE ROOM.
 - SMOKE DETECTOR IN ELEVATOR LOBBY - EACH FLOOR.
 - ANY ONE OF THE DETECTORS WILL SOUND THE FIRE ALARM SYSTEM.
 - B** ELEVATOR RECALL (EMERGENCY MODE)
 - SMOKE DETECTOR IN ELEVATOR MACHINE ROOM.
 - SMOKE DETECTOR IN ELEVATOR LOBBY - EACH FLOOR.
 - SMOKE DETECTOR ON FIRST FLOOR IN THE ELEVATOR LOBBY WILL SIGNAL THE ELEVATOR CONTROLLER TO SEND THE ELEVATOR TO THE ALTERNATE FLOOR (SECOND FLOOR) ALL OTHER REMAINING SMOKE DETECTORS WILL SIGNAL THE ELEVATOR CONTROLLER TO SEND THE ELEVATOR TO THE DESIGNATED FLOOR (FIRST FLOOR).
 - C** ELEVATOR SHUNT TRIP
 - DEDICATED FLOW SWITCH WILL SHUNT THE POWER TO THE ELEVATOR.
 - D** RED HAT FLASHING
 - SMOKE OR HEAT IN ELEVATOR MACHINE ROOM.

NOTES:

1 CONTRACTOR SHALL VERIFY THAT A SPRINKLER HEAD IS LOCATED AT THE TOP AND BOTTOM OF THE ELEVATOR SHAFT PRIOR TO ROUGH-IN FOR THE SMOKE AND HEAT DETECTORS ASSOCIATED WITH THIS HEAD. SHOULD THE SPRINKLER DESIGN NOT HAVE THIS HEAD INSTALLED, THE SMOKE AND HEAT DETECTORS SHALL NOT BE INSTALLED AS WELL. IN THIS CASE THE DEVICES SHALL BE TURNED OVER TO THE OWNER. SMOKE DETECTOR SHALL BE INSTALLED AT THE TOP OF THE ELEVATOR SHAFT ONLY.

ELEVATOR RECALL AND SHUNT TRIP RISER DIAGRAM

NO SCALE



FIRE ALARM/MASS NOTIFICATION SYSTEM RISER DIAGRAM

NO SCALE

SYSTEM INPUTS BELOW		C . N . A										
		A	B	C	D	E	F	G	H	I	J	
1	SMOKE DETECTORS - ELEVATOR MACHINE ROOM	X	X	X	X	X	X	X	X	X	X	1
2	HEAT DETECTORS - ELEVATOR MACHINE ROOM	X	X	X	X	X	X	X	X	X	X	2

FAMN SYSTEM INPUT/OUTPUT MATRIX

NO SCALE

APPR: _____ DATE: _____

DESCRIPTION: _____ SW: _____

Pace COLLABORATIVE
 MECHANICAL ELECTRICAL ENGINEERS
 VIRGINIA BEACH, VA - 757-458-7223
 WWW.PACE-ENGINEERS.COM

COMMONWEALTH OF VIRGINIA
 Martin H. Ford
 Lic. No. 048072
 6/7/19
 PROFESSIONAL ENGINEER
 #19047 SEAL

APPROVED: _____ A/E INFO: _____
 PER COMMANDER NAVFAC
 ACTIVITY: _____
 SATISFACTORY TO: _____
 DES: CRW DRW: CAR CHK: MHF

U.S. MARINE CORPS AIR STATION
 CHERRY POINT, NORTH CAROLINA
REPAIR FOUR ELEVATORS, BUILDING 4881
 CHERRY POINT
 RISER DIAGRAMS AND MATRIX

SCALE: AS NOTED
 PROJECT NO.: 6863656
 MAXIMO WORK ORDER NO. 6863656
 NAVFAC DRAWING NO. 12782887
 SHEET 15 OF 15
FA601

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