

KCHA VANTAGE POINT ELEVATOR



ABBREVIATIONS

& L AND	GA GAUGE	R or RAD RADIUS
@ ANGLE	GALV GALVANIZED	RB RESILIENT BASE
# DIAMETER	GB GRAB BAR	RC REFLECTED CEILING PLAN
(E) EXISTING	GC GENERAL CONTRACTOR	RD ROOF DRAIN
CL CENTERLINE	GL GLASS	REF REFERENCE
PL PROPERTY LINE	GLB GLU-LAM BEAM	REFR REFRIGERATOR
A.B. ANCHOR BOLT	GND GROUND	REINF REINFORCED
ABV ABOVE	GR GRADE	RELOC RELOCATE
AC AIR CONDITIONING	GRTD GROUTED	REQ'D REQUIRED
ACP ACOUSTIC CEILING PANEL	GWB GYPSUM WALL BOARD	RES RESILIENT
ACU AIR CONDITION UNIT	HB HOSE BIBB	RM ROOM
ADJ ADJUSTABLE	HC HANDICAP	RO ROUGH OPENING
AFF ABOVE FINISHED FLOOR	HCMU HOLLOW CLAY MASONRY UNIT	RV ROOF VENT
ALT ALTERNATE	HDWD HARDWOOD	RL RAIN WATER LEADER
ALUM ALUMINUM	HDWE HARDWARE	S SOUTH
APPROX APPROXIMATELY	HM HOLLOW METAL	SA SMOKE ALARM
ARCH ARCHITECT, ARCHITECTURAL	HR HORIZONTAL	SC SOLID CORE
BLDG BUILDING	ICC INTERNATIONAL CODE COUNCIL	SCD SCHEDULE
BLW BELOW	I.D. INSIDE DIAMETER	SECT SECTION
BM BEAM	INSUL INSULATION	SG SAFETY GLASS
B.O. BOTTOM OF	INT INTERIOR	SHT SHEET
BRS BACKER ROD & SEALANT	JAN JANITOR	SIM SIMILAR
CB CATCH BASIN	JT JOINT	SPEC SPECIFICATION
CBB CEMENT BACKER BOARD	KIT KITCHEN	SD SQUARE
CEM CEMENT	LAB LABORATORY	S.S. STAINLESS STEEL
CJ CONTROL JOINT	LAM LAMINATE	STA STATION
CL CENTERLINE	LAV LAVATORY	STD STANDARD
CLG CEILING	LCKR LOCKER	STL STEEL
CLR CLEAR	LOC LOCATE	STN STAIN
CO CLEAN OUT	LT LIGHT	STR STORAGE
COL COLUMN	LVL LAMINATED VENEER LUMBER	STRUCT STRUCTURE
CONC CONCRETE	M MENS	SOG SLAB ON GRADE
COND CONDITION	MATL MATERIAL	SUSP SUSPENDED
CONT CONTINUOUS	MAX MAXIMUM	SYM SYMMETRICAL
CPT CARPET	MC MECHANICAL	T, TMP TEMPERED
CT CERAMIC TILE	MECH MECHANICAL	T&G TONGUE & GROOVE
CTR CENTER	MEMB MEMBRANE	TEL TELEPHONE
DBL DOUBLE	MFR MANUFACTURER	TER TERRAZZO
DEMO DEMOLISH	MIN MINIMUM	THK THICK
DF DRINKING FOUNTAIN	MIR MIRROR	T.O. TOP OF
DIA DIAMETER	MISC MISCELLANEOUS	TS TUBE STEEL
DIFF DIFFUSER	MH MANHOLE	TV TELEVISION
DIM DIMENSION	MO MASONRY OPENING	TYP TYPICAL
DISP DISPENSER	MTD MOUNTED	UL UNDERWRITERS' LABORATORIES
DN DOWN	MTL METAL	UNO UNLESS NOTED OTHERWISE
DR DOOR	MULL MULLION	UTIL UTILITY
DS DOWNSPOUT	N NORTH	VCT VINYL COMPOSITION TILE
DTL DETAIL	NA NOT APPLICABLE	VERT VERTICAL
DW DISHWASHER	NIC NOT IN CONTRACT	VEST VESTIBULE
E EAST	NOM NOMINAL	VIF VERIFY IN FIELD
EA EACH	NTS NOT TO SCALE	VT VERTICAL TRANSPORTATION
ECS EXTERIOR COMPOSITE SIDING	NR NOT RATED	VTR VENT THRU ROOF
EF EXHAUST FAN	OA OVERALL	W WEST
EJ EXPANSION JOINT	OBS OBSCURE	W/ WITH
EL ELEVATION	O.C. ON CENTER	WC WATER CLOSET
ELEC ELECTRICAL	O.D. OUTSIDE DIAMETER	WD WOOD
ELEV ELEVATOR	OFF OFFICE	WF WIDE FLANGE
EMERG EMERGENCY	OPNG OPENING	WIN WINDOW
EQ EQUAL	OPP OPPOSITE	W/O WITHOUT
EXP EXPANSION	PC PRECAST CONCRETE	WOM WOMENS
EXT EXTERIOR	PL PLATE	WP WATERPROOFING
FBP FIBER BOARD PANEL	PLAS PLASTER	WR WATER RESISTANT
FD FLOOR DRAIN	PLY PLYWOOD	WRB WATER-RESISTIVE BARRIER
FE FIRE EXTINGUISHER	P.LAM PLASTIC LAMINATE	WSCT WAINSCOT
FF FINISH FLOOR	PNT PAINT	WT WEIGHT
FH FIRE HYDRANT	POC POINT OF CONNECTION	
FIN FINISH	PR PAIR	
FLR FLOOR	PSL PARALLEL STRAND LUMBER	
F.O. FACE OF	PT PRESSURE TREATED	
FOIC FURNISHED BY OWNER, INSTALL BY CONTRACTOR	PTN PARTITION	
FOIO FURNISHED BY OWNER, INSTALL BY OWNER	QT QUARRY TILE	
FR FIRE RESISTANT		
FS FLOOR SINK		
FT FEET		

DRAFTING SYMBOLS

	WALL SECTION
	BLDG SECTION
	EXTERIOR ELEVATION
	INTERIOR ELEVATION
	DETAIL
	NORTH ARROW
	GRID HEAD
	ROOM TAG
	WINDOW & STOREFRONT TAG
	FLOOR, WALL, CEILING OR ROOF TAG
	CASEWORK TAG
	DOOR TAG
	KEY NOTE
	ELEVATION NOTE
	SPOT ELEVATION
	CENTERLINE
	PROPERTY LINE
	FLOOR TRANSITION
	REVISION
	BREAKLINE
	DIMENSION POINT
	ENLARGED DETAIL CALLOUT



GENERAL NOTES

- REFER TO MECHANICAL, VERTICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES AND SYMBOLS.
 - MATERIALS, ASSEMBLIES AND NOTED ITEMS ARE NEW UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL VERIFY CONDITIONS. NOTIFY THE ARCHITECT OF ANY CONDITIONS INCONSISTENT WITH THE INTENT OF THE DRAWINGS PRIOR TO STARTING OR CONTINUING WORK IN THE AREA CONCERNED.
- CODE:**
- ALL WORK SHALL CONFORM TO APPLICABLE CODES AND LOCAL BUILDING REQUIREMENTS, WHICH INCLUDE THE MOST CURRENT EDITIONS OF THE INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS, INTERNATIONAL MECHANICAL CODE (IMC), NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL FIRE CODE (IFC), AND WASHINGTON STATE ENERGY CODE (WEC).
 - MECHANICAL, ELECTRICAL AND ELEVATOR PERMITS TO BE APPLIED FOR UNDER SEPARATE APPLICATION BY CONTRACTOR.
 - PROVIDE FIREBLOCKS AND DRAFTSTOPS PER IBC.
 - PROVIDE CLOSURE MEETING THE REQUIREMENT OF GOVERNING FIRE AUTHORITIES BETWEEN FIRE RATED FLOORS, SHAFTS AND BUILDING PARTITIONS AND PENETRATING DUCTS, PIPES, CONDUIT, MECHANICAL, ELECTRICAL, AND OTHER ITEMS.
 - RECESSES LOCATED WITHIN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE REQUIRED FIRE RATING OF THE PARTITION.
 - EXISTING FIRE EXTINGUISHERS AND CABINETS ARE NOT SHOWN ON PLANS. PROTECT EXISTING FIRE EXTINGUISHERS AND CABINETS (RECESSED OR SURFACE MOUNTED) FROM DAMAGE.

- HAZMAT:**
- HAZARDOUS MATERIAL REMOVAL & DISPOSAL: BEFORE BEGINNING ANY DEMOLITION OR OTHER WORK, COMPLY WITH DOCUMENTS PREPARED BY THE OWNER'S HAZARDOUS MATERIALS CONSULTANT. THIS APPLIES TO DEMOLITION, DISPOSAL AND CONSTRUCTION OPERATIONS ASSOCIATED WITH THE PROJECT. THE CONTRACTOR WILL SUSPEND WORK IMMEDIATELY AND NOTIFY THE OWNER IF MATERIALS SUSPECTED OF BEING HAZARDOUS, AND NOT PREVIOUSLY IDENTIFIED, ARE ENCOUNTERED IN THE COURSE OF THE CONTRACTOR'S WORK.

- DEMOLITION:**
- WHERE ITEMS ARE INDICATED ON PLANS TO BE DEMOLISHED, IT SHALL MEAN THE COMPLETE REMOVAL AND DISPOSAL OF THE ITEM INDICATED UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE HAZARDOUS MATERIALS ABATEMENT, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR CUTTING AND PATCHING WORK.

- DIMENSIONS:**
- DO NOT SCALE DRAWINGS.
 - VERIFY DIMENSIONS SHOWN ON DRAWINGS. USE ONLY DIMENSIONS INDICATED. PRIOR TO STARTING OR CONTINUING WORK, NOTIFY ARCHITECT OF DISCREPANCIES OR CONDITIONS INCONSISTENT WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
 - DIMENSIONS OF EXISTING CONDITIONS ARE TO FACE OF FINISH. DIMENSIONS OF PROPOSED WORK ARE TO FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF STUD, UNLESS OTHERWISE NOTED.
 - FINISHED SURFACE OF INFILL OR EXTENSIONS OF EXISTING PARTITIONS SHALL ALIGN WITH ADJACENT EXISTING SURFACES UNLESS OTHERWISE NOTED.
 - VERTICAL DIMENSIONS ARE MEASURED FROM STRUCTURAL SLAB, TOP OF STEEL OR TOP OF SHEATHING, UNLESS NOTED OTHERWISE.
 - DOORS NOT LOCATED BY DIMENSION ON PLANS SHALL BE SIX INCHES FROM FACE OF ADJOINING PARTITION TO HINGE EDGE OF DOOR OPENING. PROVIDE MINIMUM 18" CLEAR FROM FACE OF ADJOINING PARTITION OR OTHER OBSTRUCTION TO JAMB EDGE OF DOOR OPENING, UNLESS OTHERWISE NOTED. NOTIFY ARCHITECT IF REQUIRED CLEARANCES ARE NOT AVAILABLE.

- COORDINATION:**
- COORDINATE ALL OPERATIONS WITH OWNER, SUCH AS AREAS USED FOR MATERIAL STORAGE, ACCESS TO AND FROM THE SITE, TIMING OF WORK AND REQUIREMENTS OF NOISE ORDINANCE. INSTALL DUST AND NOISE BARRIERS AS REQUIRED TO PROTECT EXISTING ADJACENT BUILDINGS AND OCCUPANTS AND TO MAINTAIN AN ENVIRONMENT SUITABLE TO PERMIT CONTINUED OCCUPANCY OF SUBJECT AND ADJACENT BUILDINGS.
 - REVIEW DEMOLITION DRAWINGS. PATCH AND REPAIR ALL EXISTING SURFACES AFFECTED BY DEMOLITION WORK.
 - VERIFY LOCATIONS OF EXISTING UTILITIES. CAP, MARK AND PROTECT AS NECESSARY TO COMPLETE THE WORK.
 - REVIEW ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND PROVIDE ROUGH-INS THROUGH SLABS, BEAMS, WALLS, CEILINGS, AND ROOFS FOR DUCTS, PIPES, CONDUITS, JUNCTION BOXES, CABINETS AND EQUIPMENT. VERIFY SIZE AND LOCATION BEFORE PROCEEDING WITH WORK. COORDINATE WITH INSTALLATION REQUIREMENTS. PATCH AND REPAIR EXISTING SURFACES AS NECESSARY TO COMPLETE WORK.
 - COORDINATE AND PROVIDE REQUIRED PENETRATIONS AND PATCHING WITH INDIVIDUAL SUBCONTRACTORS TO SUIT NEW WORK.
 - CONTRACTOR TO OBTAIN AND VERIFY ROUGH-IN DIMENSION REQUIREMENTS FOR CABINETRY, EQUIPMENT, ACCESSORIES AND THE LIKE INCLUDING THOSE DESIGNATED FOIC AND FOIO. CONTRACTOR TO PROVIDE BACKING, BLOCKING, SUPPORT AS REQUIRED FOR INSTALLATION. CONTRACTOR TO COORDINATE POWER, DATA, COMMUNICATIONS AND SECURITY REQUIREMENTS FOR FOIC AND FOIO EQUIPMENT WHERE SERVICES ARE REQUIRED. INCLUDE STUB OUTS AND CONNECTIONS. VERIFY AND COORDINATE DIMENSIONS OF FOIC AND FOIO ITEMS PRIOR TO PROCEEDING WITH WORK. INCLUDE STUB OUTS FOR FUTURE WORK.
 - PIPING, CONDUITS, DUCTS, ETC. SHALL BE CONCEALED IN WALLS, CHASES, ABOVE SUSPENDED CEILINGS, BELOW FLOORS OR BE FURRED-IN IN ROOMS WITH EXISTING CEILINGS, UNLESS OTHERWISE NOTED. DO NOT CONCEAL PIPING, CONDUITS, DUCTS, ETC. IN ELECTRICAL, MECHANICAL, AND COMMUNICATION ROOMS.
 - CAREFULLY COORDINATE MECHANICAL, ELECTRICAL, AND BUILDING SYSTEM INSTALLATIONS WITH EXISTING STRUCTURE AND BUILDING SYSTEMS.
 - "REMOVE" MEANS TO COMPLETELY AND PERMANENTLY REMOVE FROM THE PROJECT.
 - REFER TO LIGHTING PLAN AND ELECTRICAL DRAWINGS FOR ELECTRICAL DEVICES AND LOCATIONS. COORDINATE AND REVIEW DEVICE LOCATIONS WITH ARCHITECT IN FIELD PRIOR TO ROUGH-IN.

PROJECT INFORMATION

PROJECT OWNER:
KING COUNTY HOUSING AUTHORITY (KCHA)

PROJECT MANAGER:
AMY KURTZ
P: 206.574.1283
E: amyk@kcha.org

PROJECT ADDRESS:
17901 105TH PL SE
RENTON, WA 98055

SCOPE DESCRIPTION:
INSTALL ONE ELEVATOR IN EXISTING HOISTWAY, INCLUDING BORING FOR IN-GROUND JACK, EQUIPMENT IN THE EXISTING MACHINE ROOM, ELEVATOR CAB, AND OPENINGS IN EXISTING WALLS FOR ELEVATOR DOORS.

ZONING ANALYSIS

PARCEL NUMBER:	322305-9362
LEGAL DESCRIPTION:	LOT 2 OF CITY OF RENTON BLA# LU17-000002 & LND30-0380 REC# 20170511900004 SD BLA LOCATED IN W 1/2 OF STR 92-23-05
LOT AREA:	153,656 (3.53 ACRES)
ZONE:	RM-F
CONSTRUCTION TYPE:	V-A
CURRENT USE:	APARTMENT
YEAR BUILT:	2018
(E) BLDG AREA:	62,293 SF +/- (NO CHANGE)
(E) BLDG HEIGHT:	50' - 10" +/- (NO CHANGE)
(E) STORES:	4
REQUIRED SETBACKS:	NO CHANGE

APPLICABLE CODES

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 UNIFORM PLUMBING CODE
- 2018 INTERNATIONAL FIRE CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN & ANSI A117.1
- 2018 WASHINGTON STATE ENERGY CODE

DESIGN TEAM

ARCHITECT:
SHKS ARCHITECTS
1050 NORTH 38TH ST
SEATTLE, WA 98103
TEL: 206.675.9151
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ELECTRICAL ENGINEER:
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1915 NORTH CREEK PARKWAY, SUITE 302
BOTHELL, WA 98011
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EMAIL: MICHAEL@CASEENG.COM

MECHANICAL ENGINEER:
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1900 W. NICKERSON ST., STE. 201
SEATTLE, WA 98119
TEL: 206.378.0569
CONTACT: RICHARD FREDERICK
EMAIL: RICHARDF@GREENBUSH.COM

STRUCTURAL ENGINEER:
PCS STRUCTURAL SOLUTIONS
1011 WESTERN AVENUE, SUITE 810
SEATTLE WA 98104
TEL: 206.292.5076
CONTACT: DAN TAPPEL
EMAIL: DTAPPEL@PCS-STRUCTURAL.COM

KCHA
VANTAGE POINT
ELEVATOR

BID SET

17901 105TH PL SE
RENTON, WA 98055

Drawn by:	_____	LJ
Checked:	_____	NM
Date:	_____	2/2/2024
Scale:	_____	As indicated

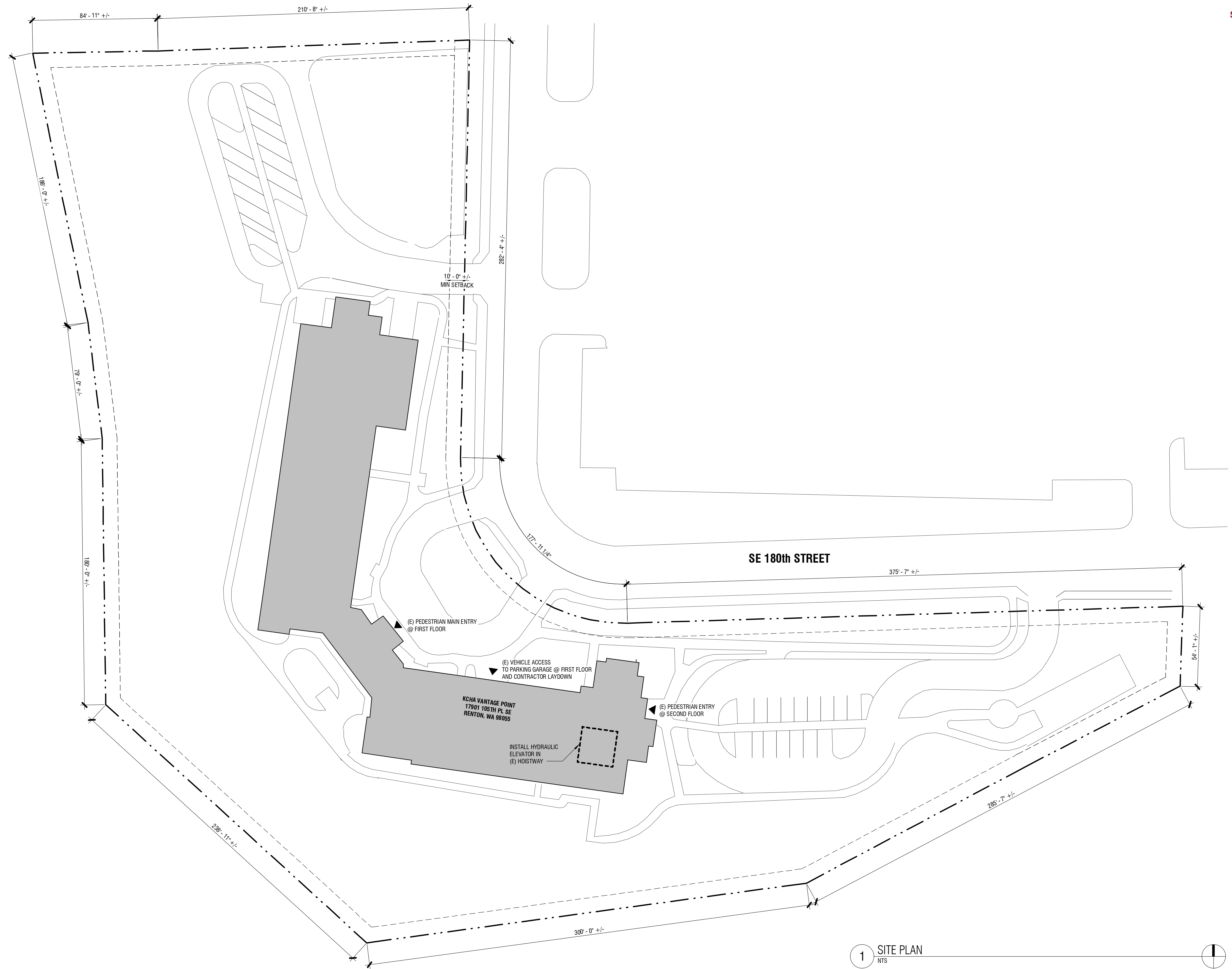
Revisions:	_____	_____	_____
No.	Date	By	Remarks

SHEET INDEX

A0.0	COVER SHEET
A1.0	SITE PLAN
A2.0	KEY PLANS
A2.1	FIRST FLOOR PLAN & RCP
A2.2	SECOND FLOOR PLAN & RCP
A8.0	SECTION, INTERIOR ELEVATIONS, AND DETAILS
M1.0	MECHANICAL NOTES AND LEGEND
M2.1	MECHANICAL PLANS
VT1.0	VT NOTES, SCHEDULES, & ABBREVIATIONS
VT2.1	ELEVATOR 2 PLANS AND SECTIONS
VT3.1	ELEVATOR DETAILS
E0.1	ELECTRICAL DWGS
E2.1	POWER/COMMUNICATIONS AND LIGHTING PLANS
E9.1	EXISTING RISER DIAGRAM AND PANEL SCHEDULES
S1.0	GENERAL NOTES
S1.1	GENERAL NOTES

COVER SHEET

A0.0



KCHA
VANTAGE POINT
ELEVATOR

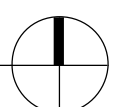
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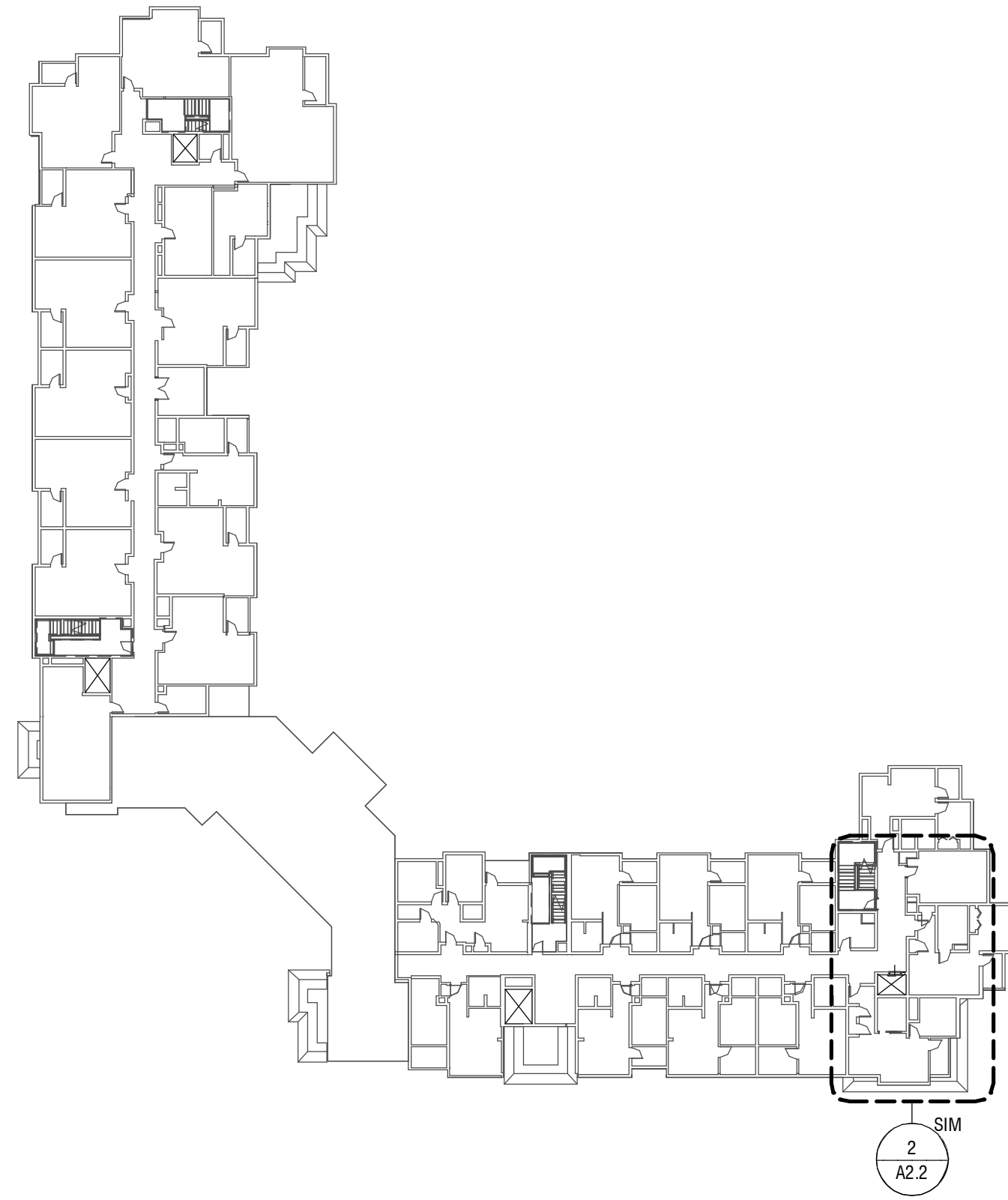
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Revisions:		Remarks
No.	Date	

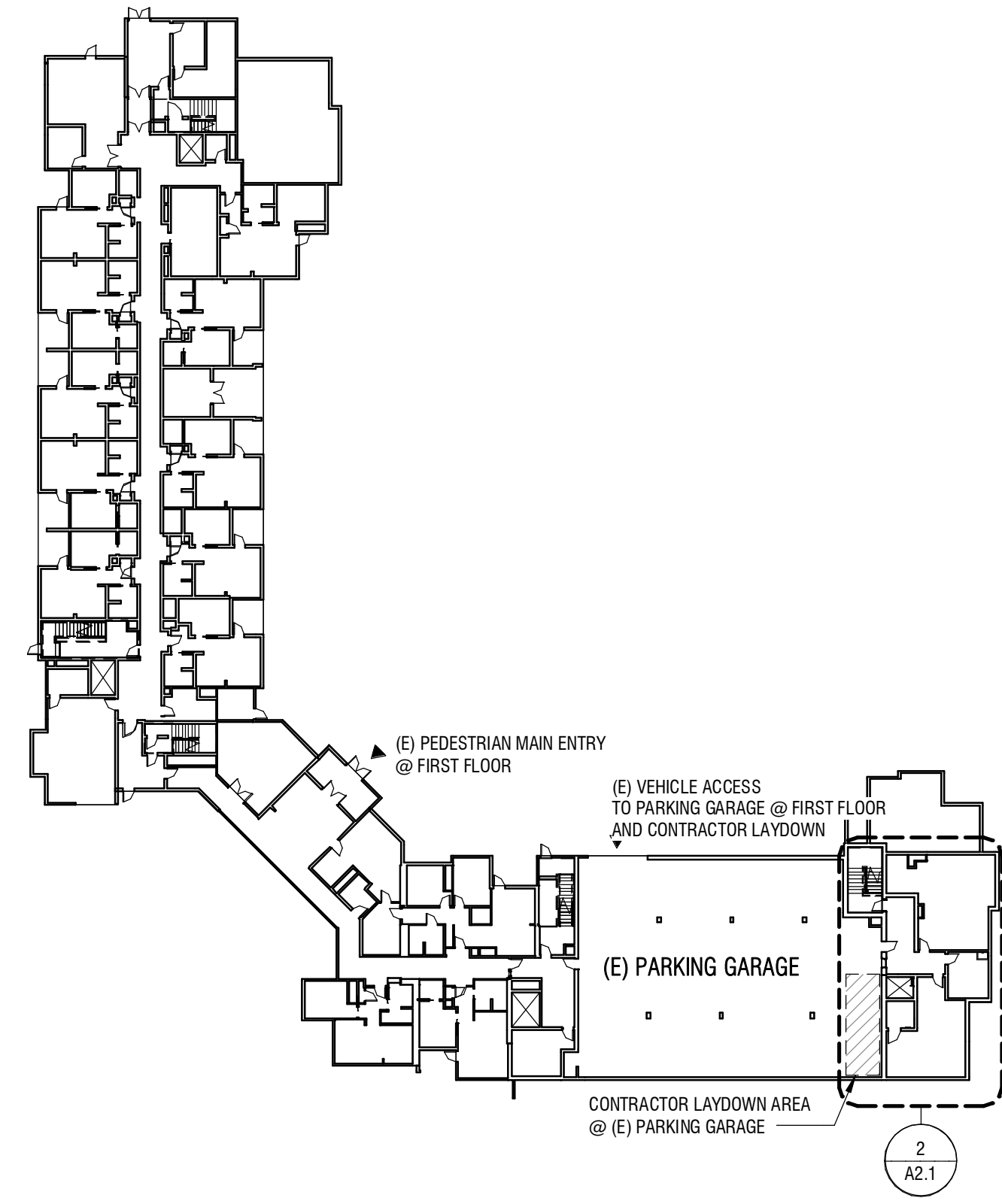
1 SITE PLAN
NTS



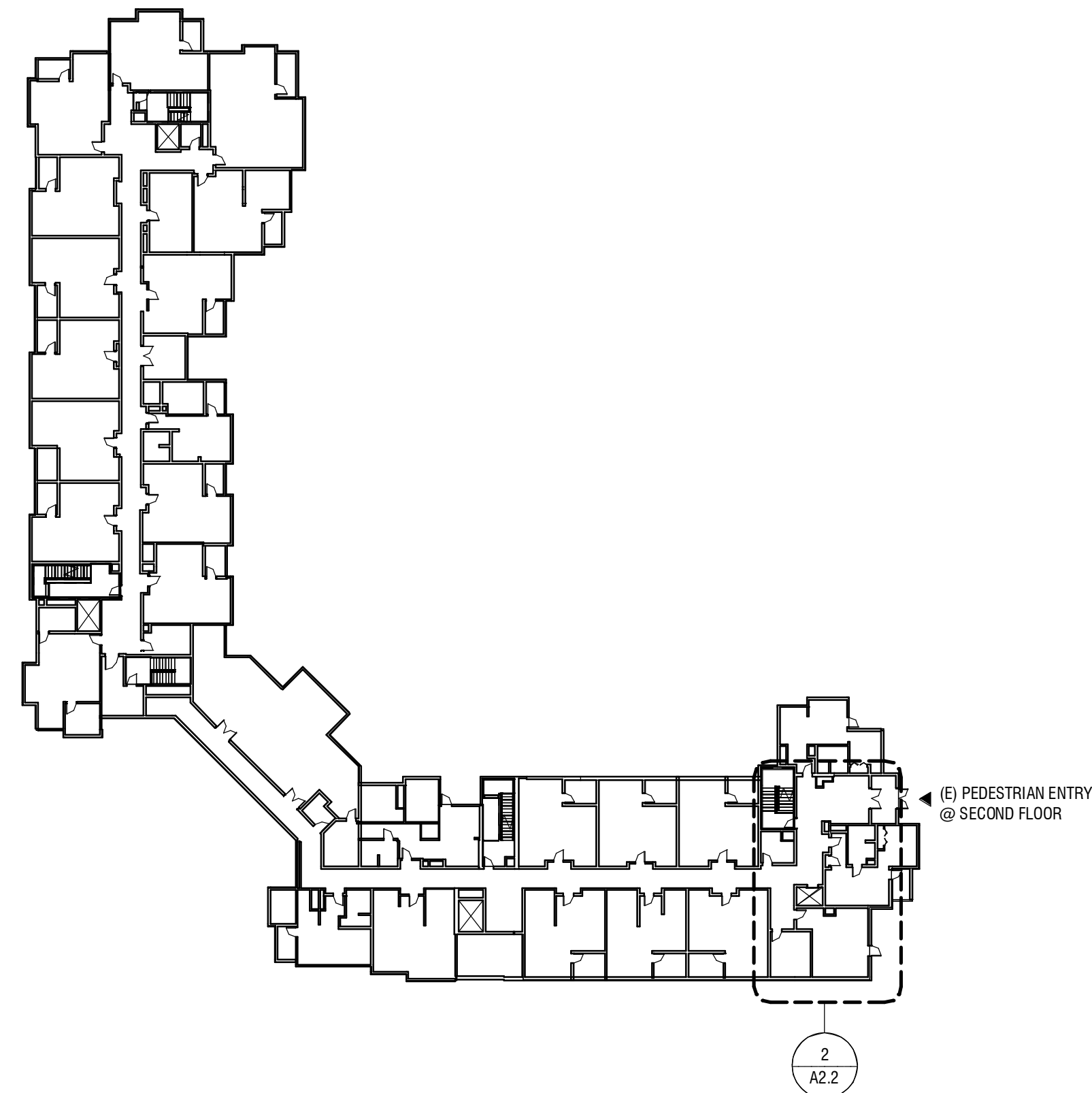
SITE PLAN
A1.0



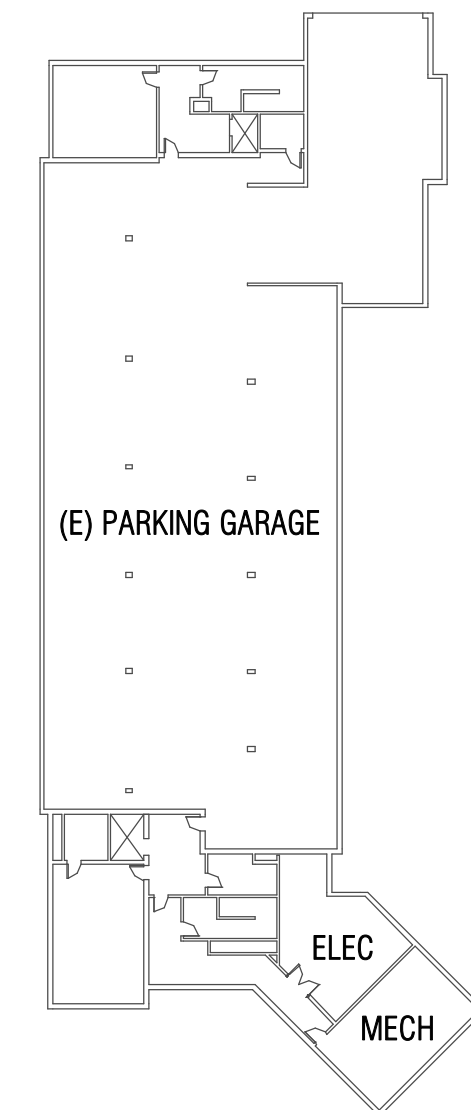
4 THIRD FLOOR (FOURTH FLOOR SIM)
1" = 40'-0"



2 FIRST FLOOR KEY PLAN
1" = 40'-0"



3 SECOND FLOOR
1" = 40'-0"



1 BASEMENT KEY PLAN
1" = 40'-0"

KCHA
VANTAGE POINT
ELEVATOR

BID SET

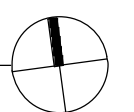
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Date: 2/2/2024
Scale: 1" = 40'-0"

Revisions:
No. Date Remarks

KEY PLANS

A2.0





KEYNOTE LEGEND

MARK	KEYNOTE TEXT
2.1	DEMO (E) CONC PIT SLAB TO ACCOMMODATE HYDRAULIC ELEVATOR CASING
2.2	CORE (E) CONC WALL TO ACCOMMODATE SUMP PUMP PIPING
2.4	DEMO (E) WALL TO ACCOMMODATE ELEVATOR DOOR
2.5	CUTOUT (E) WALL TO ACCOMMODATE HALL BUTTON BOXES
3.1	INFILL (E) CONC SLAB W/ 3000 PSI NON-SHRINK GROUT PER STRUCT, INSTALL HYDROPHILIC WATERSTOP TO SEAL NEW CONCRETE AGAINST (E)
5.3	METAL PIT LADDER, CONTRACTOR TO INSTALL OWNER FURNISHED PIT LADDER, PROVIDE CODE COMPLIANT INSTALL
6.1	HEADER AT ELEVATOR DOOR PER A8.0
6.3	PACK HOISTWAY DOOR FRAME W/ FIRESAFE INSULATION AND SEAL W/ FRESTOP SEALANT ON HOISTWAY SIDE
6.4	CRYSTALLINE WATERPROOFING SYSTEM AT (E) ELEVATOR PIT
7.1	PATCH & REPAIR BELOW-GRADE VAPOR BARRIER DAMAGED BY CONC SLAB REMOVAL
8.1	ELEVATOR DOOR PER MFR
9.1	PATCH & REPAIR GWB APPROX 6" AROUND EACH HALL FIXTURE
9.2	PAINT FULL LENGTH OF WALL, FLOOR TO CEILING, COLOR TO MATCH EXISTING
9.3	HIGH PERFORMANCE COATING THROUGHOUT ELEVATOR MACHINE ROOM, RESINOUS FLOORING SYSTEM W/ INTEGRAL COVE BASE
10.1	FIRE EXTINGUISHER & WALL BRACKET
14.1	BORE NEW HOLE AND INSTALL IN-GROUND ELEVATOR JACK PER VT
14.2	CAB ENCLOSURE AND SUBFLOOR PER VT, LUXURY VINYL PLANK FLOORING AT CAB
14.3	HYDRAULIC POWER UNIT PER VT
14.4	CONTROLLER PER VT
14.6	ELEVATOR CALL BUTTONS, FIRE SIGNAGE, AND HALL LANTERN W/ DIRECTION OF TRAVEL PER VT, TYP EA FLOOR UNO, ELEVATOR CALL BUTTONS TO BE ACCESSIBLE IN ACCORDANCE W/ IBC 1101.2 AND ICC A117.1
21.1	REMOVE & REPLACE (E) SPRINKLER HEAD AT MACHINE ROOM PER MECH
21.2	EXTEND (E) PIPING AND ADD SPRINKLER HEAD IN PIT PER MECH
22.1	SUMP PUMP IN (E) SUMP PER MECH
22.2	SUMP PUMP PIPING PER MECH, CONNECT TO (E) WASTE LINE AT (E) MOP SINK
26.1	PIT LIGHT FIXTURE & LIGHT SWITCH PER ELEC
26.5	SUMP PUMP, ALARM, AND ASSOCIATED RECEPTACLES PER ELEC

LEGEND

	(E) WALL
	1 HR RATED, VIF
	2 HR RATED, VIF
	AREA OF CONC REMOVAL FOR HYDRAULIC JACK INSTALL, REPAIR W/ VAPOR BARRIER AND INFILL W/ NON-SHRINK GROUT
	EQUIP

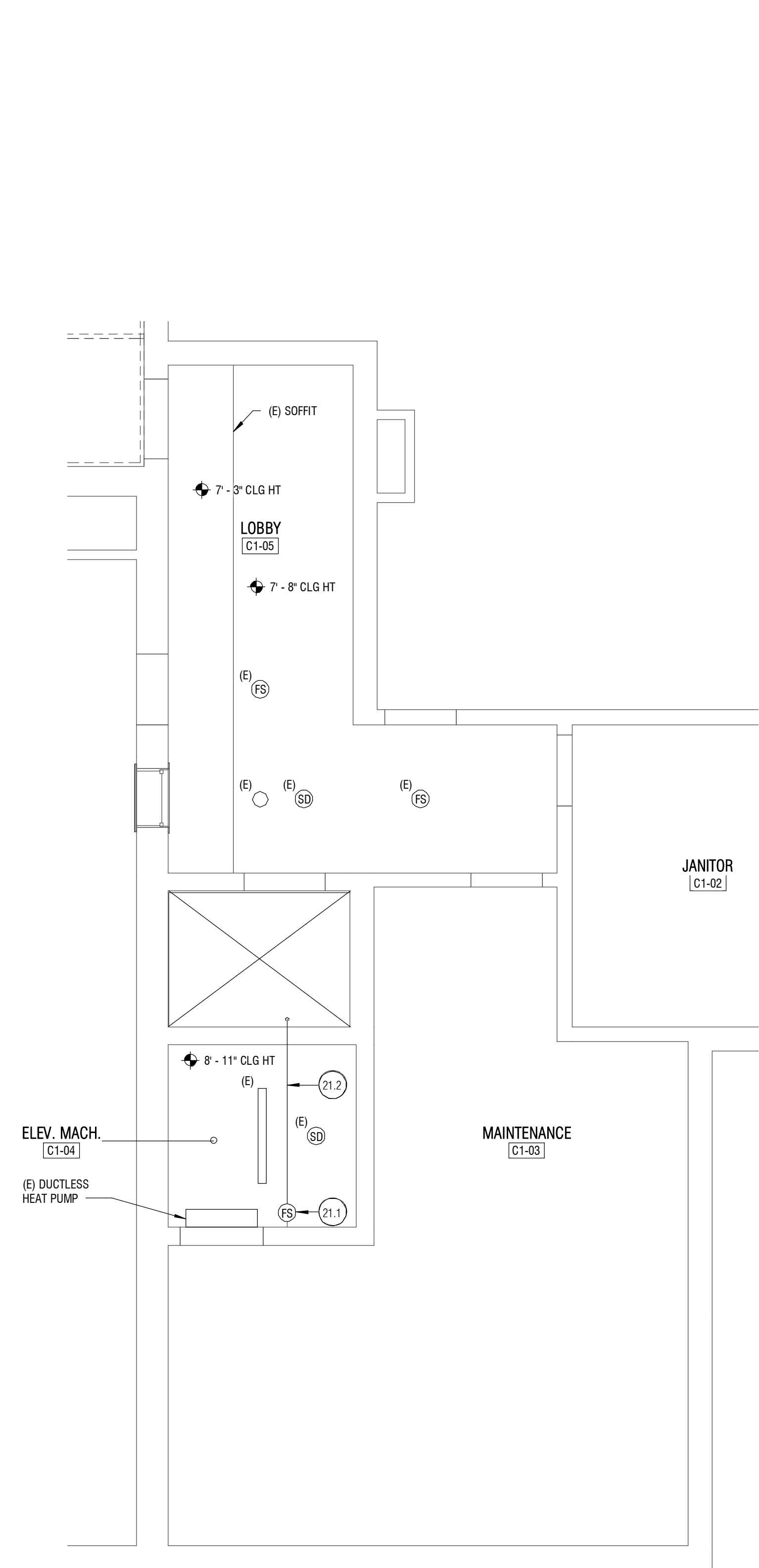
GENERAL NOTES:
 1. PATCH, REPAIR, AND PAINT INTERIOR GWB DAMAGED DURING CONSTRUCTION.
 2. DO NOT DISCONNECT POWER, DATA, AND CABLE DURING CONSTRUCTION.
 3. COORDINATE REQUIRED SHUTDOWNS WITH OWNER.

RCP LEGEND

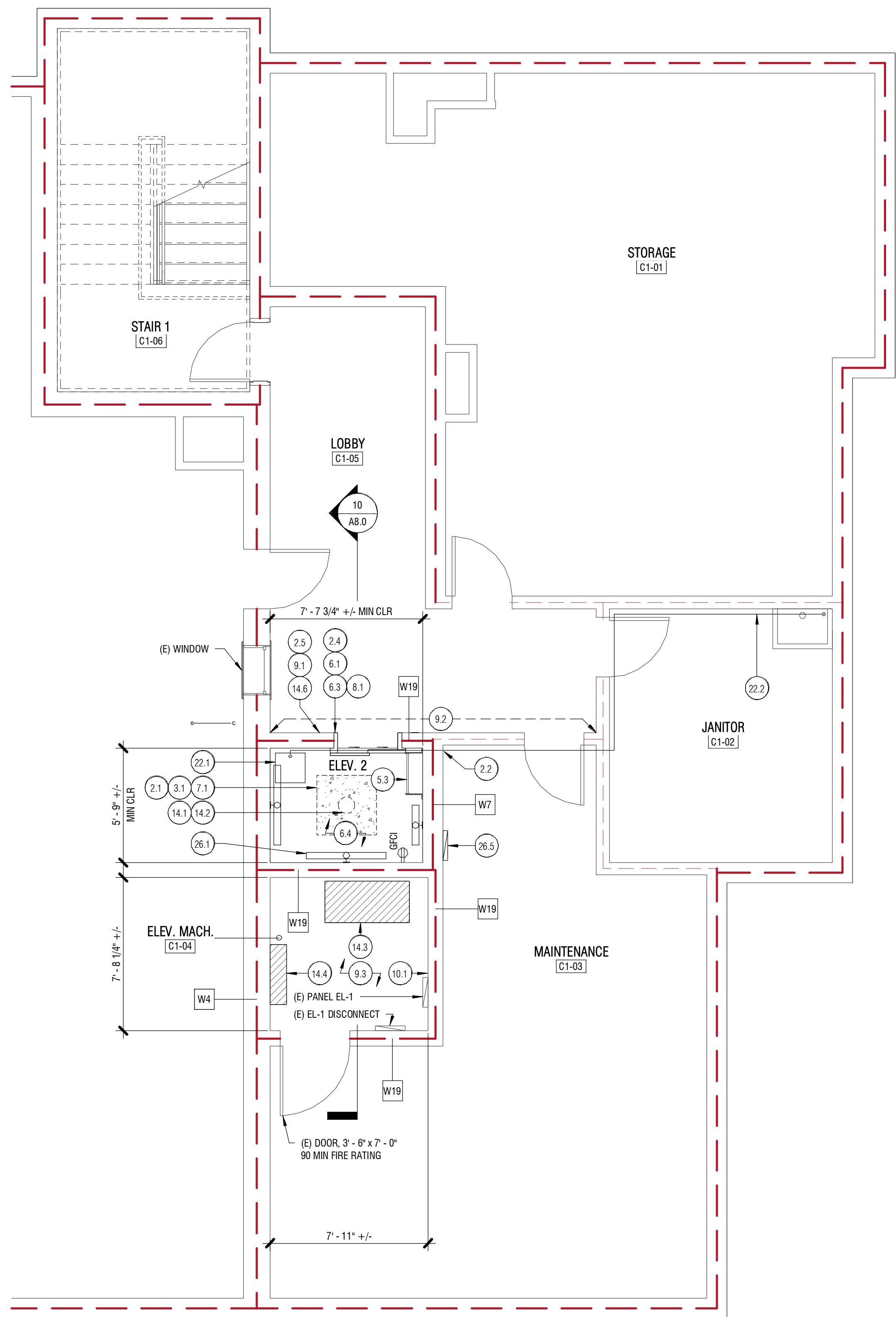
LIGHTING SYMBOLS	
	SURFACE MOUNTED LINEAR FIXTURE PER ELEC
	WALL MOUNTED LINEAR FIXTURE PER ELEC
	SURFACE MOUNTED CIRCULAR FIXTURE PER ELEC

DEVICE SYMBOLS	
	FIRE SPRINKLER PER ELEC
	SMOKE DETECTOR PER ELEC
	EXIT SIGN
	GROUND FAULT INTERRUPT RECEPTACLE PER ELEC

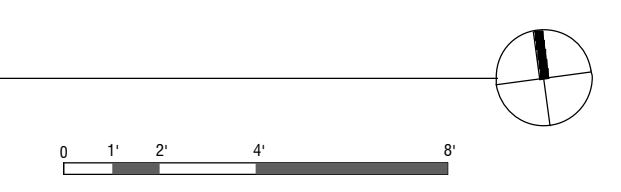
RCP ABBREVIATIONS
 (E) EXISTING TO REMAIN

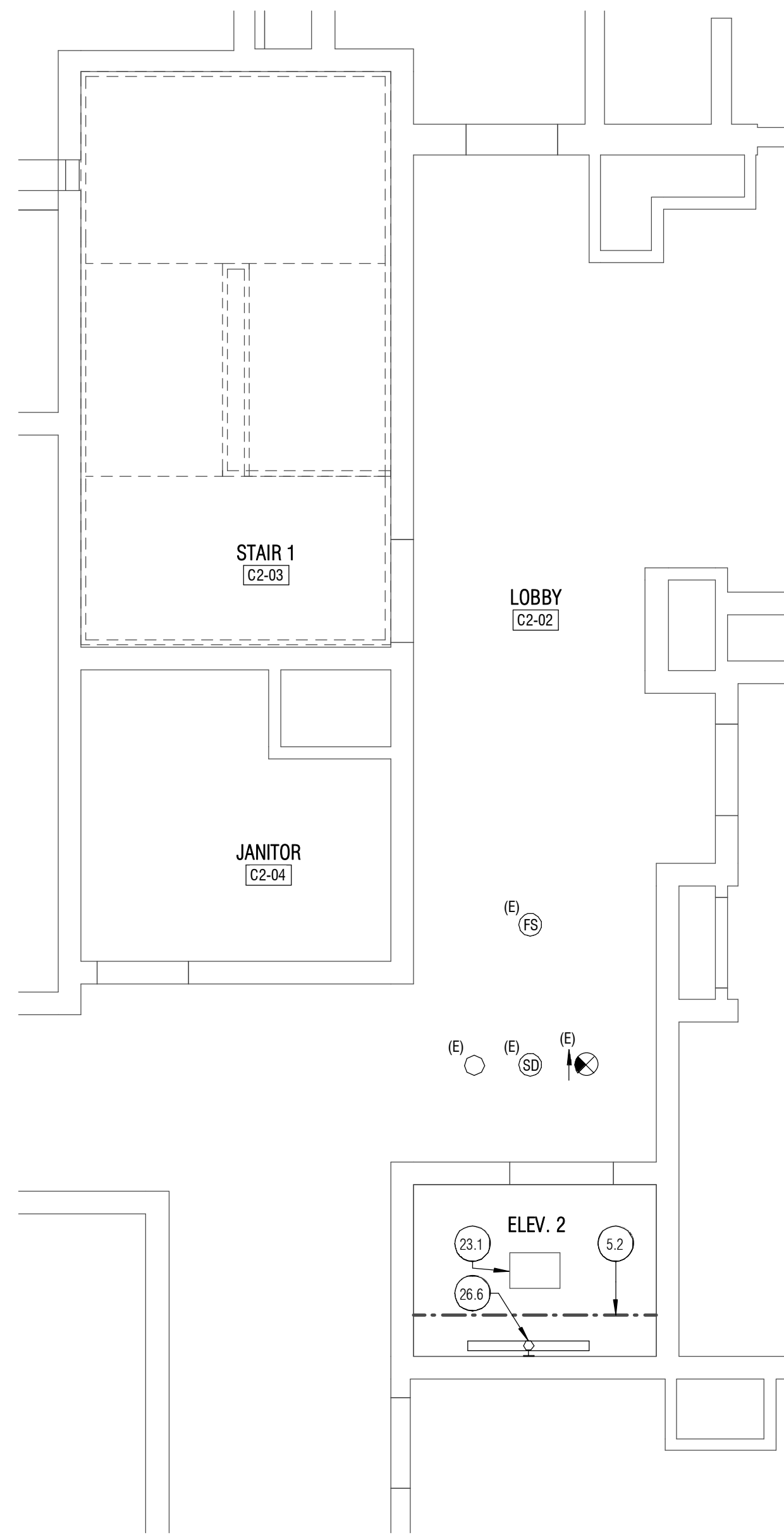


1 ENLARGED FIRST FLOOR RCP
1/4" = 1'-0"

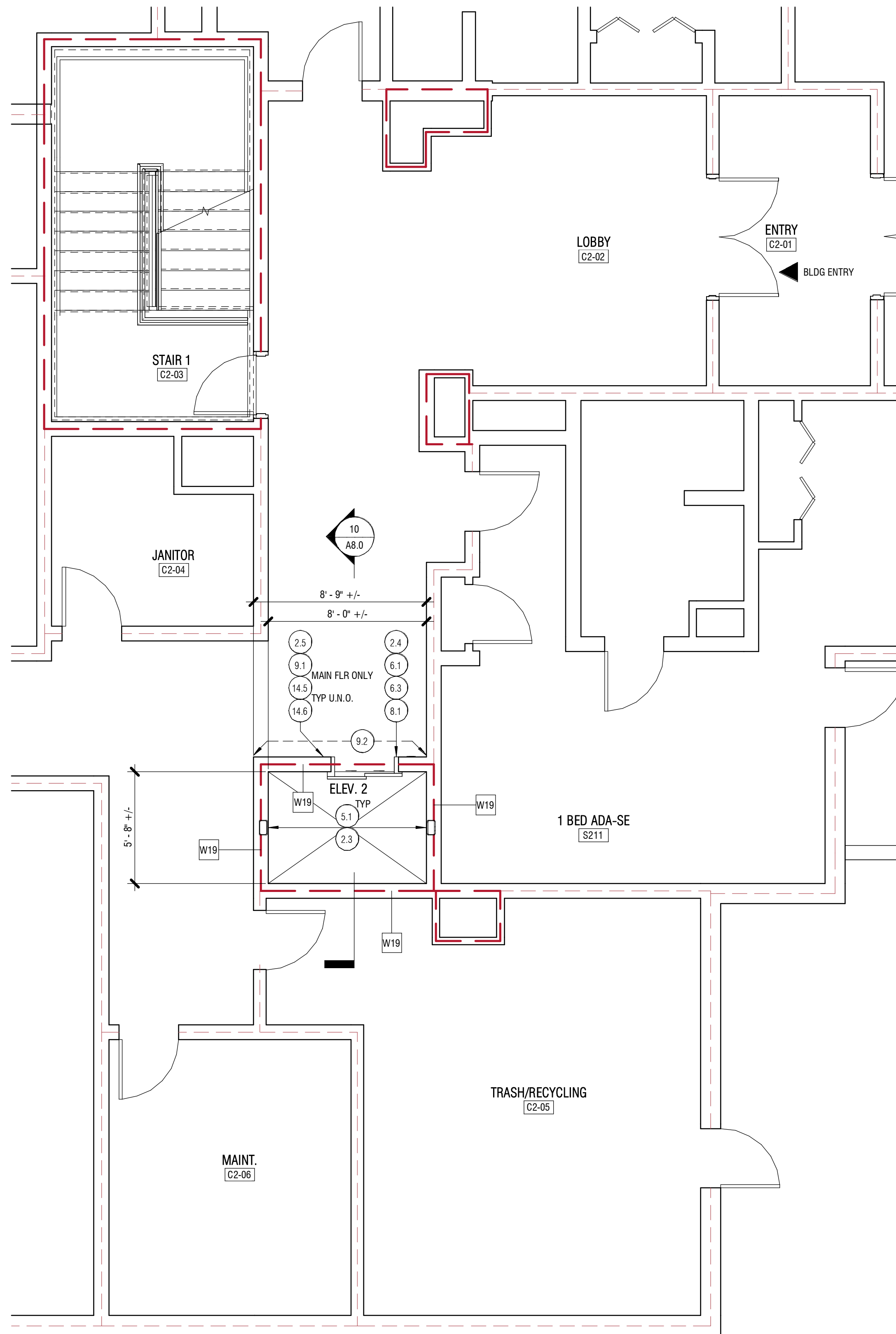


2 ENLARGED FIRST FLOOR PLAN
1/4" = 1'-0"





1 ENLARGED SECOND FLOOR PLAN RCP
1/4" = 1'-0"



2 ENLARGED SECOND FLOOR PLAN (FOURTH FLOOR SIM)
1/4" = 1'-0"

MARK	KEYNOTE TEXT
2.3	DEMO (E) WALL TO ACCOMMODATE HOISTWAY FRAMING
2.4	DEMO (E) WALL TO ACCOMMODATE ELEVATOR DOOR
2.5	CUTOUT (E) WALL TO ACCOMMODATE HALL BUTTON BOXES
5.1	HYDRAULIC ELEVATOR SUPPORT FRAMING, BRACKETS, AND CONNECTIONS AT (E) WALL PER A8.0, HSS AT 4TH FLR ONLY
5.2	REMOVE AND REPLACE (E) HOIST BEAM TO MEET ELEVATOR MFR REQUIREMENTS PER VT
6.1	HEADER AT ELEVATOR DOOR PER A8.0
6.3	PACK HOISTWAY DOOR FRAME W/ FIRESAFE INSULATION AND SEAL W/ FRESTOP SEALANT ON HOISTWAY SIDE
8.1	ELEVATOR DOOR PER MFR
9.1	PATCH & REPAIR GWB APPROX 6" AROUND EACH HALL FIXTURE
9.2	PAINT FULL LENGTH OF WALL, FLOOR TO CEILING, COLOR TO MATCH EXISTING
14.5	ELEVATOR CALL BUTTONS, FIRE SIGNAGE, POSITION INDICATOR, INTERCOM, PHASE 1 KS, COMM FAILURE, KEY BOX, AND HALL LANTERN W/ DIRECTION OF TRAVEL AT MAIN FLOOR ONLY PER VT
14.6	ELEVATOR CALL BUTTONS, FIRE SIGNAGE, AND HALL LANTERN W/ DIRECTION OF TRAVEL PER VT, TYP EA FLOOR UNO, ELEVATOR CALL BUTTONS TO BE ACCESSIBLE IN ACCORDANCE W/ IBC 1101.2 AND ICC A17.1
23.1	LOCK (E) HOISTWAY DAMPER IN CLOSED POSITION AND REMOVE DAMPER ACTUATOR PER MECH
26.6	LIGHT AT TOP OF HOISTWAY PER ELEC

LEGEND	
	(E) WALL
	1 HR RATED, VIF
	2 HR RATED, VIF
	AREA OF CONC REMOVAL FOR HYDRAULIC JACK INSTALL, REPAIR W/ VAPOR BARRIER AND INFILL W/ NON-SHRINK GROUT
	EQUIP

- GENERAL NOTES:**
- PATCH, REPAIR, AND PAINT INTERIOR GWB DAMAGED DURING CONSTRUCTION.
 - DO NOT DISCONNECT POWER, DATA, AND CABLE DURING CONSTRUCTION.
 - COORDINATE REQUIRED SHUTDOWNS WITH OWNER.

RCP LEGEND	
	SURFACE MOUNTED LINEAR FIXTURE PER ELEC
	WALL MOUNTED LINEAR FIXTURE PER ELEC
	SURFACE MOUNTED CIRCULAR FIXTURE PER ELEC
	FIRE SPRINKLER PER ELEC
	SMOKE DETECTOR PER ELEC
	EXIT SIGN
	GROUND FAULT INTERRUPT RECEPTACLE PER ELEC

RCP ABBREVIATIONS
(E) EXISTING TO REMAIN

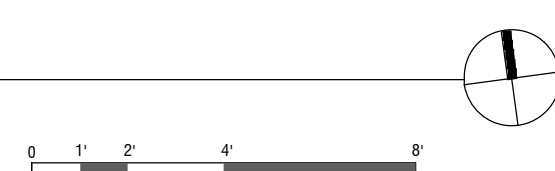
KCHA
VANTAGE POINT
ELEVATOR

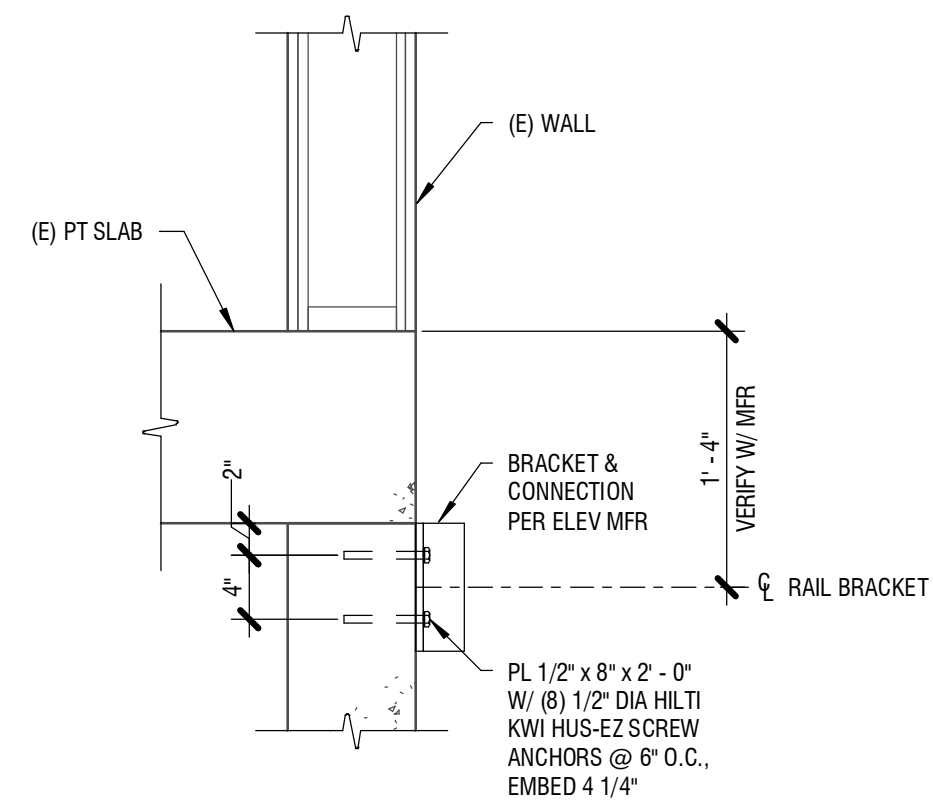
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Checked: NM
Date: 2/2/2024
Scale: 1/4" = 1'-0"

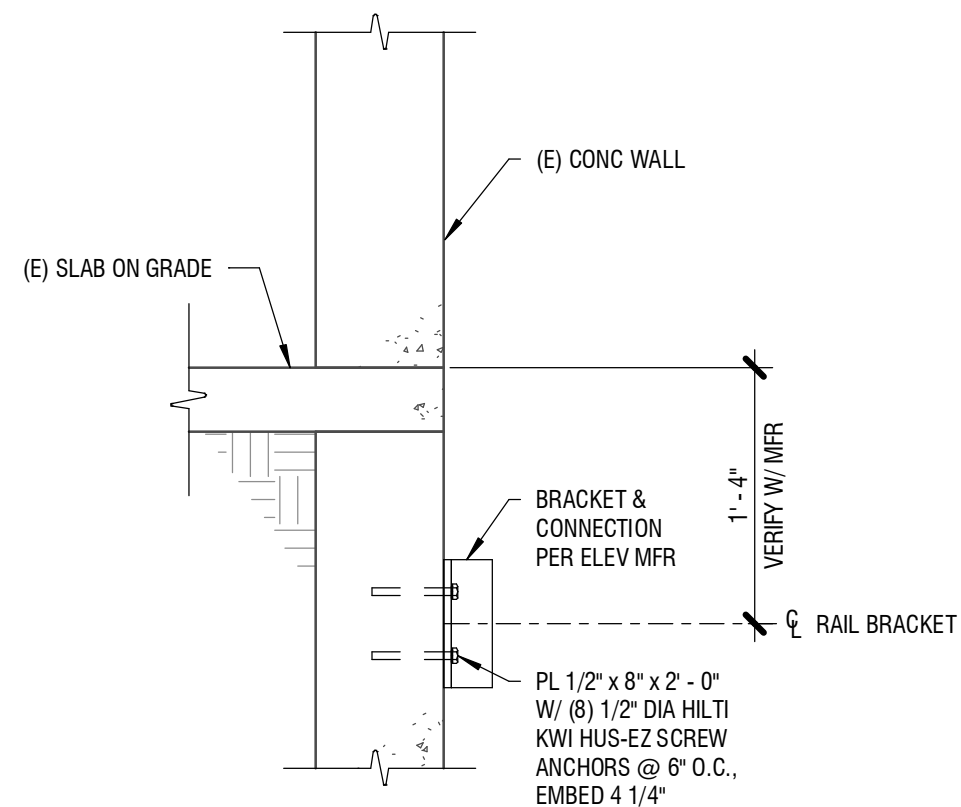
Revisions:		
No.	Date	Remarks

SECOND FLOOR
PLAN & RCP
A2.2

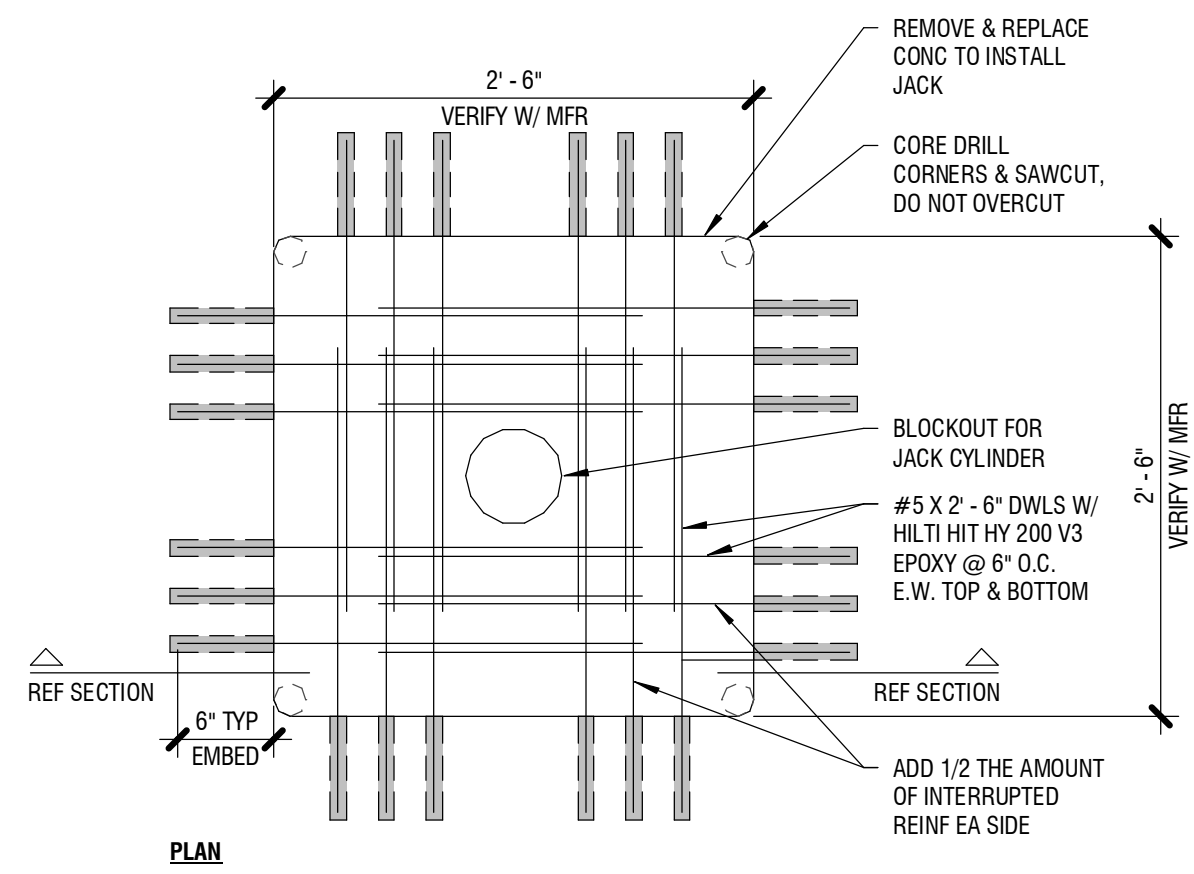




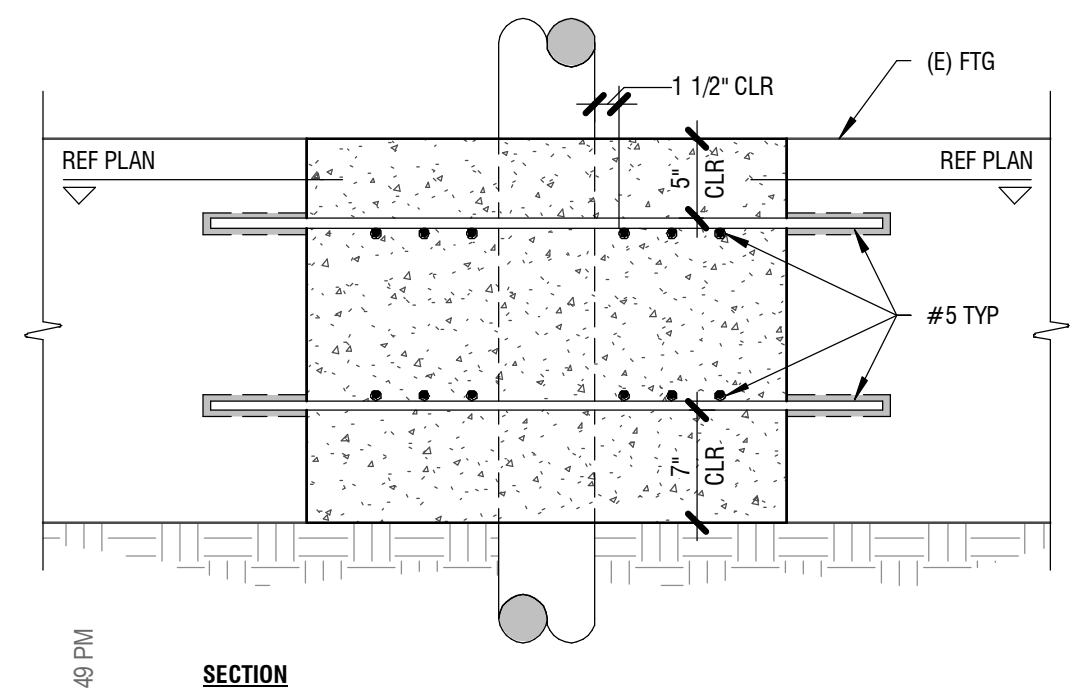
1 RAIL BRACKET AT (E) CONC WALL
1" = 1'-0"



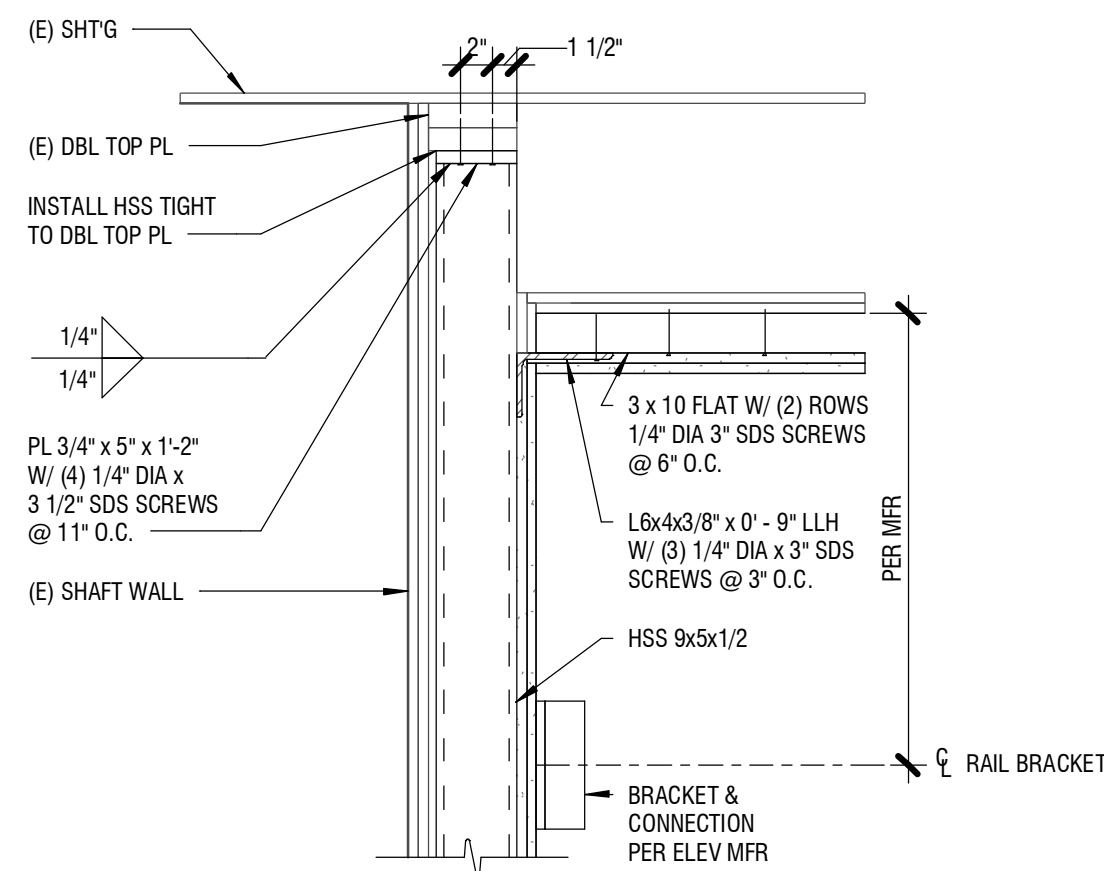
4 RAIL BRACKET AT (E) CONC PIT
1" = 1'-0"



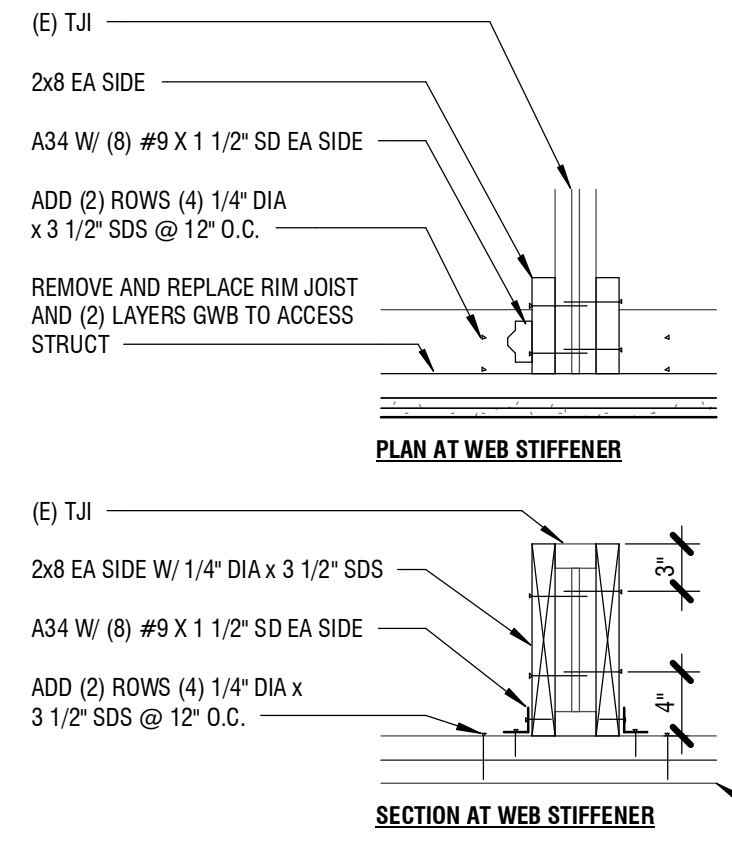
7 ELEVATOR JACK
1" = 1'-0"



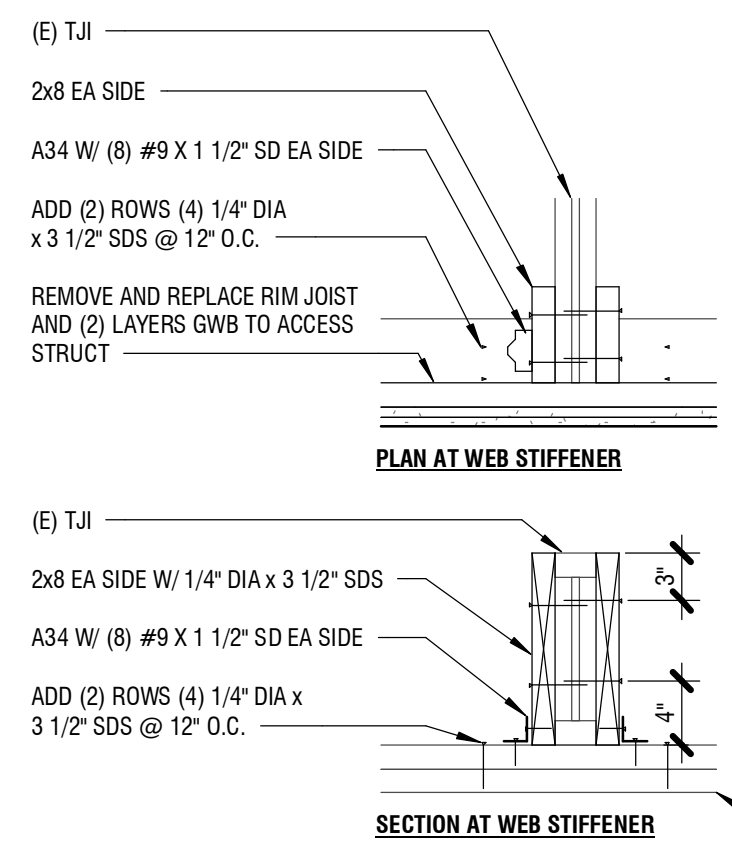
7 ELEVATOR JACK
1" = 1'-0"



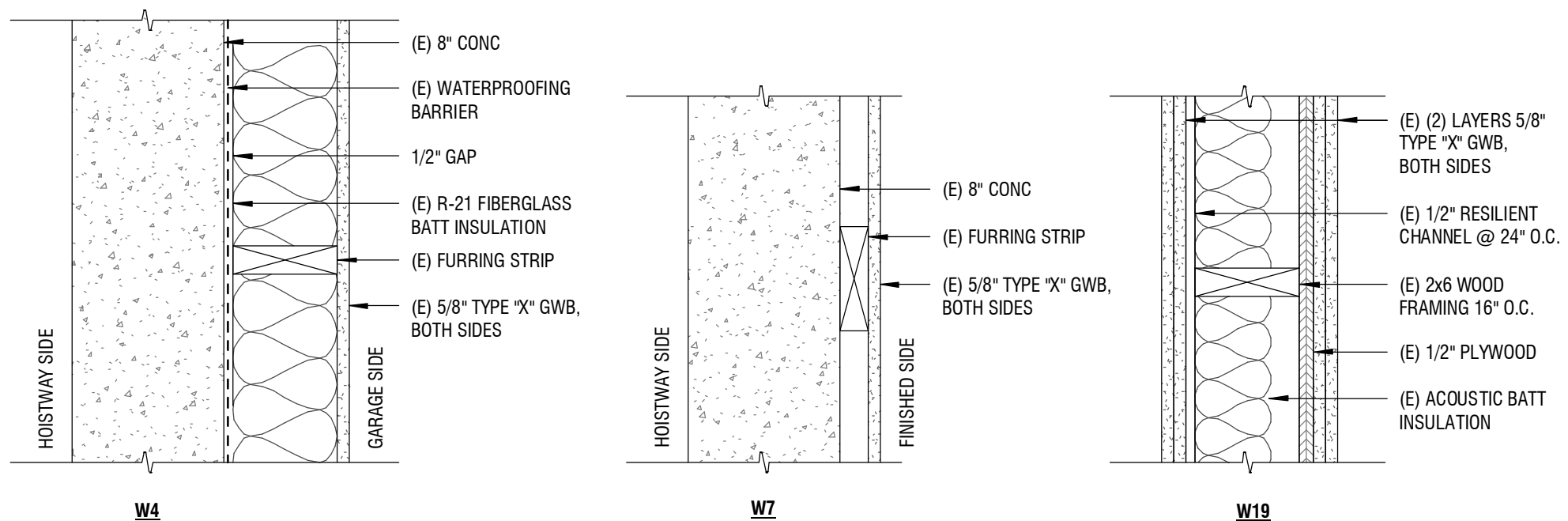
2 RAIL BRACKET AT ROOF
1" = 1'-0"



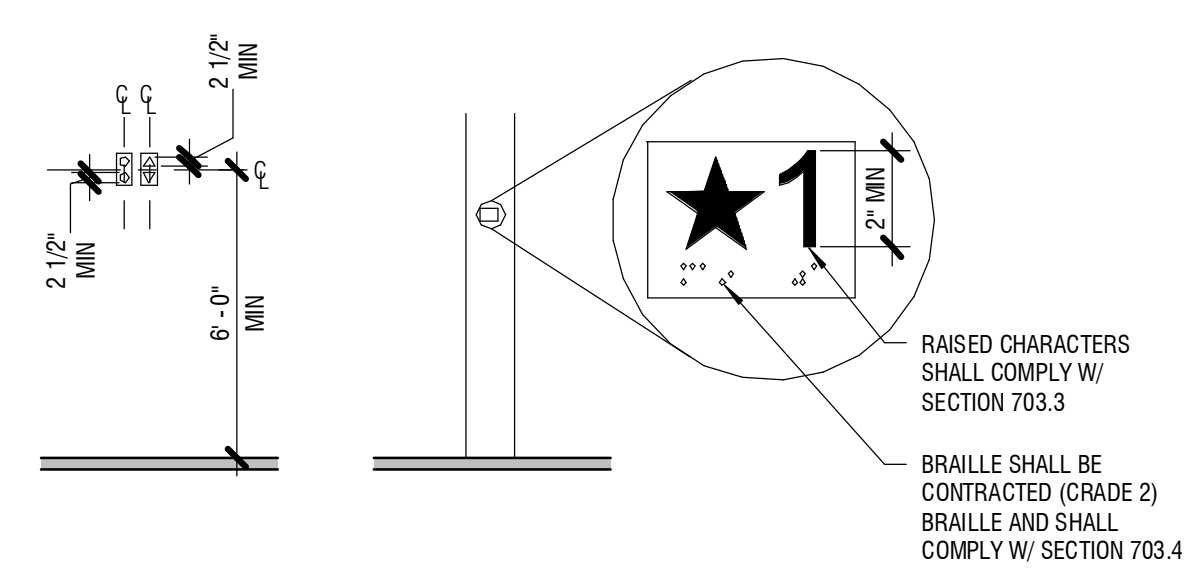
5 RAIL BRACKET AT 4TH FLOOR CONNECTION W/ HSS
1" = 1'-0"



6 RAIL BRACKET AT 3RD FLOOR CONNECTION
1" = 1'-0"



8 WALL ASSEMBLY LEGEND
1 1/2" = 1'-0"



3 ELEVATOR ACCESSIBILITY REQUIREMENTS ICC A117.1
1/4" = 1'-0"

3 ELEVATOR ACCESSIBILITY REQUIREMENTS ICC A117.1
1/4" = 1'-0"

FIGURE 407.2.3.1 FLOOR DESIGNATIONS ON JAMBS OF ELEVATOR HOISTWAY ENTRANCES

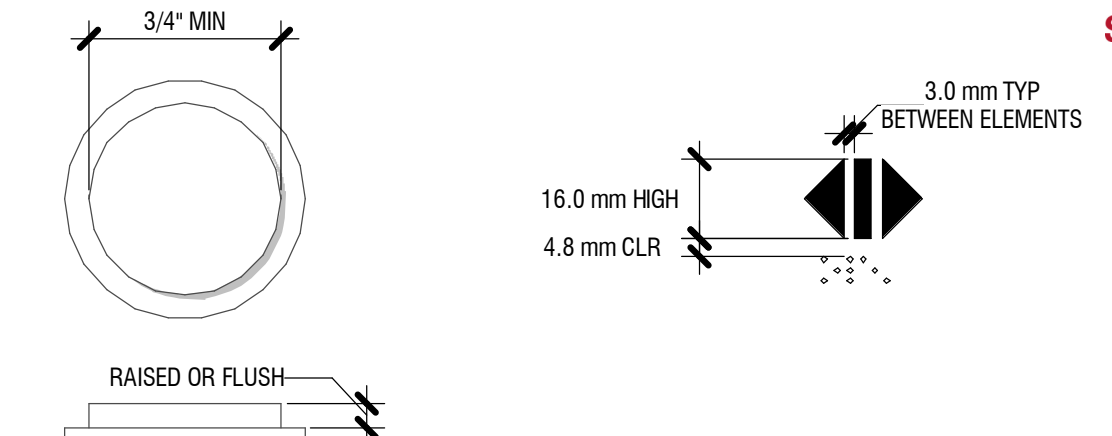
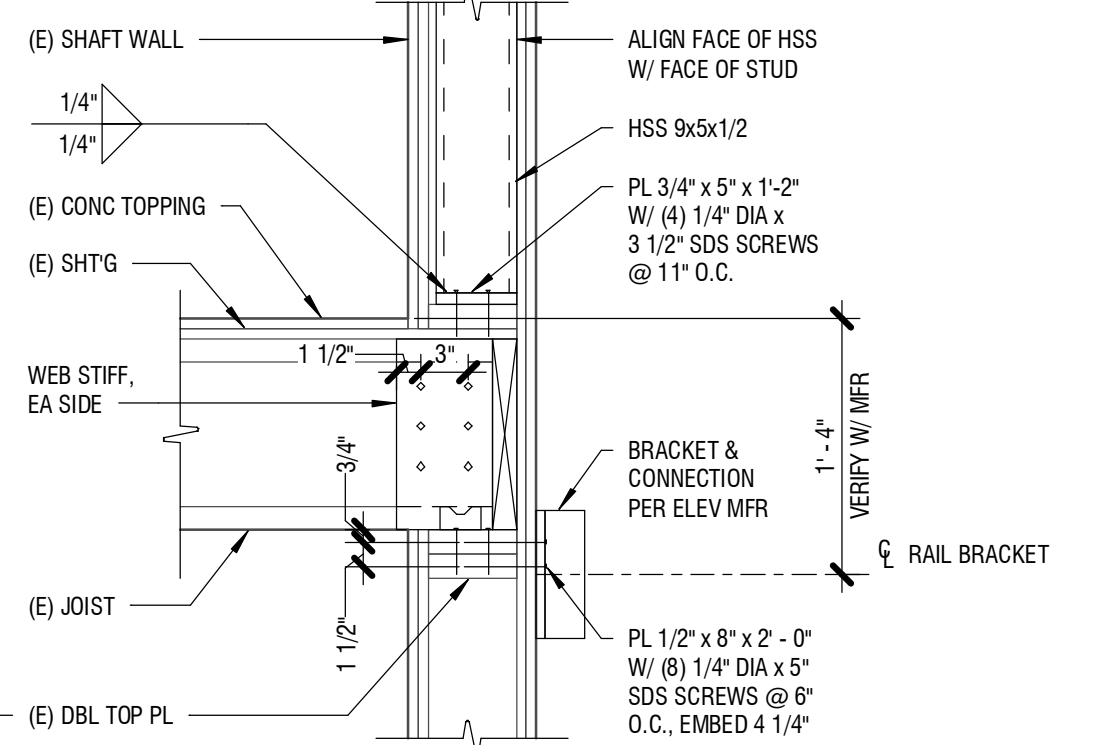
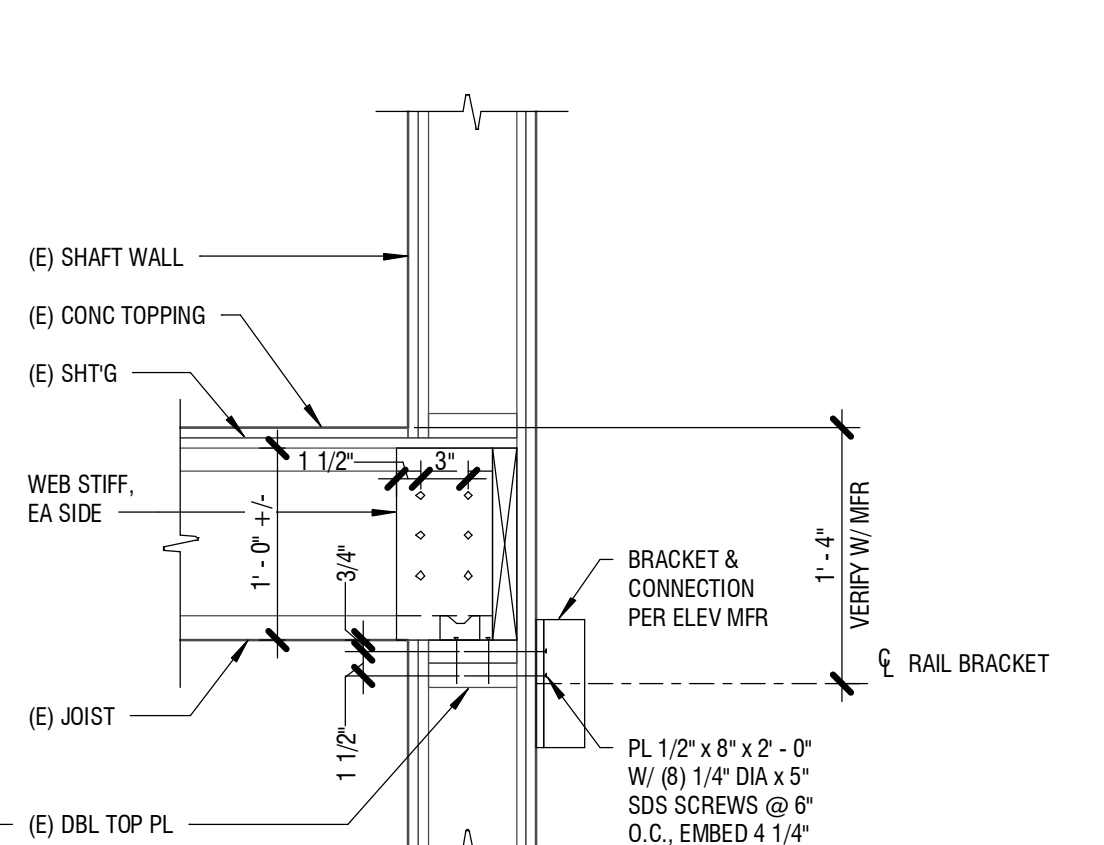


FIGURE 407.4.6.2 ELEVATOR CAR CONTROL BUTTONS

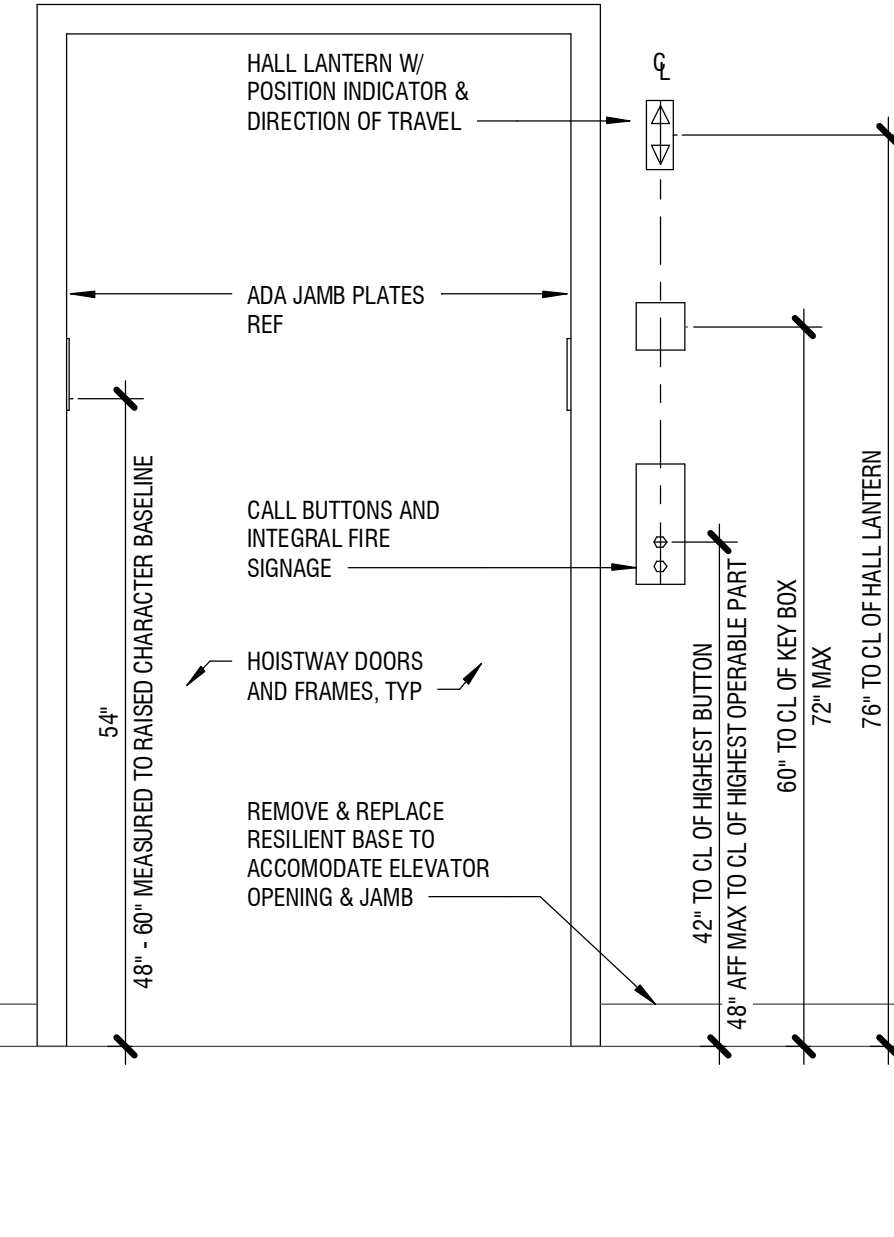
TABLE 407.4.7.1.3 CONTROL BUTTON IDENTIFICATION



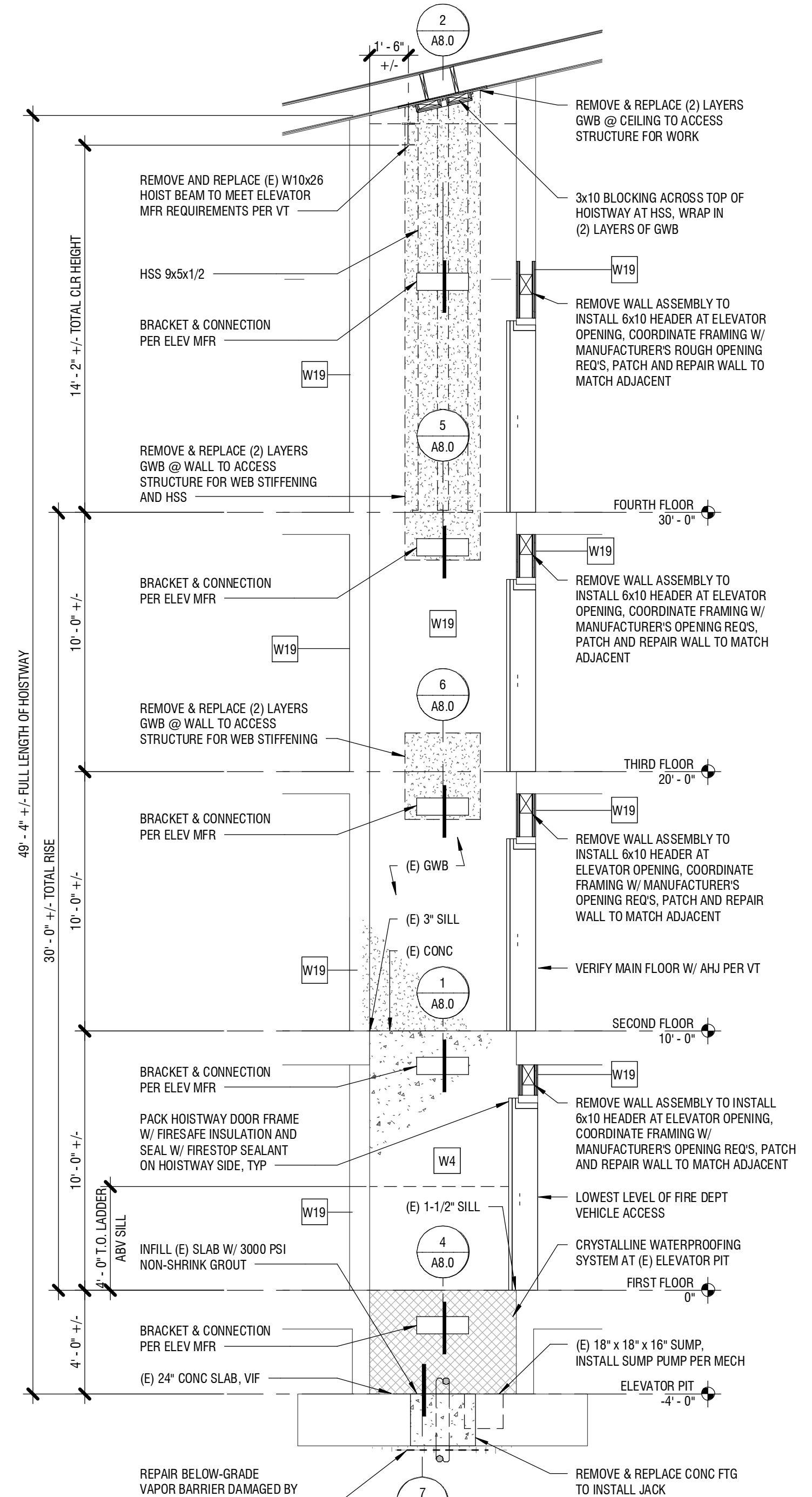
5 RAIL BRACKET AT 4TH FLOOR CONNECTION W/ HSS
1" = 1'-0"



6 RAIL BRACKET AT 3RD FLOOR CONNECTION
1" = 1'-0"



9 TYP ELEVATOR DOOR INTERIOR ELEVATION
3/4" = 1'-0"



10 HOISTWAY SECTION
1/4" = 1'-0"

MECHANICAL LEGEND

MECHANICAL ABBREVIATIONS:

AC	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION & AIR CONDITIONING ENGINEERS
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CO	CLEAN OUT
COND	CONDENSATE
COORD	COORDINATE
CW	COLD WATER
DEG	DEGREE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
E	EXISTING
EA	EACH, EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EG	EXHAUST GRILLE
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FT	FOOT, FEET
G	NATURAL GAS
GA	GAUGE
GAL	GALLONS
GPM	GALLONS PER HOUR
GRD	GRILLES, REGISTERS, AND DIFFUSERS
HP	HORSEPOWER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IE	INVERT ELEVATION
IN	INCH
KW	KILOWATT, (1000 WATTS)
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
NC	NORMALLY CLOSE
NIC	NOT IN CONTRACT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER
SEC	SEATTLE ENERGY CODE
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
SPEC	SPECIFICATIONS
SS	SANITARY SEWER
TDH	TOTAL DYNAMIC HEAD
TPD	TOTAL PRESSURE DROP
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
V	VOLT, VENT
VD	VOLUME DAMPER
VTR	VENT THRU ROOF
WB	WET BULB TEMPERATURE
W/	WITH

SYMBOL

	PIPE ELBOW DOWN
	PIPE ELBOW UP
	FLANGE
	FLEX CONNECTION
	TEE OUTLET UP
	TEE OUTLET DOWN
	AUTOMATIC AIR VENT
	BALL VALVE
	BALANCING VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE
	GLOBE VALVE
	PIPE SIZE REDUCTION
	PIPE CAP
	DIRECTION OF FLOW
	BREAK IN PIPE OR DUCT
	CLEARANCE REQUIREMENT
	WORK TO BE REMOVED
	REVISION CLOUD
	EQUIPMENT ITEM XX
	DIFFUSER TAG WITH CFM AMOUNT
	DUCT DIMENSION TAG X PLAN OR HORIZONTAL DIMENSION, Y ELEVATION OR VERTICAL DIMENSION
	FLAG NOTE
	REVISION NOTE
	DETAIL OR SECTION CALLOUT
	SECTION CUT LINE
	LINE, ARCH. BACKGROUND
	LIGHT LINE, EXISTING
	HEAVY LINE, NEW WORK
	COLD WATER
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	REFRIGERANT SUCTION
	REFRIGERANT LIQUID
	CONDENSATE DRAIN
	COMPRESSED AIR

SYMBOL

	BACKDRAFT DAMPER
	FIRE DAMPER
	FIRE AND SMOKE DAMPER
	VOLUME DAMPER, MANUAL
	MOTOR OPERATED DAMPER
	DUCT OFFSET DOWN IN FLOW DIRECTION
	DUCT OFFSET UP IN FLOW DIRECTION
	DUCT WITHOUT SOUND LINING
	DUCT WITH INTERNAL ACOUSTICAL LINING
	SINGLE LINE DUCT WITH INTERNAL LINING
	FLEXIBLE CONNECTION OR FLEXIBLE DUCT
	FLEXIBLE DUCT
	TRANSITION - RECTANGULAR TO ROUND
	90° ROUND ELBOW (R/D OR R/W=1.5)
	RECTANGULAR ELBOW WITH TURNING VANES
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	SUPPLY DIFFUSER OR GRILLE
	LINEAR DIFFUSER
	SUPPLY AIR OUTLET, SIDEWALL
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	RETURN AIR GRILLE
	RETURN AIR INLET, SIDEWALL
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	EXHAUST AIR GRILLE
	EXHAUST AIR OUTLET, SIDEWALL
	THERMOSTAT
	CARBON DIOXIDE SENSOR
	SENSOR
	HUMIDISTAT
	SWITCH
	TIMER SWITCH

MECHANICAL GENERAL NOTES

1. THE CONTRACTOR'S SCOPE OF WORK SHALL CONSIST OF ALL WORK SHOWN ON THE DRAWINGS, INCLUDING PLANS, DIAGRAMS, DETAILS, ETC., AND ALL WORK AS IDENTIFIED IN THE SPECIFICATIONS. WORK INCLUDES FURNISHING, INSTALLING SYSTEM, INTEGRATION, TESTING, TRAINING AND WARRANTY OF THE MECHANICAL SYSTEMS AS SHOWN AND SPECIFIED.
2. PROVIDE A COMPLETE AND OPERABLE MECHANICAL SYSTEM. THE SYSTEM SHALL BE PROVIDED COMPLETE WITH ALL MECHANICAL WORK AS REQUIRED FOR SYSTEM OPERATION PER THE SEQUENCE OF OPERATIONS.
3. ALL MECHANICAL WORK SHALL COMPLY WITH LOCAL CODES AND REGULATIONS. WHERE WORK SHOWN IS IN CONFLICT WITH THE LOCAL CODE, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF THE CONFLICT AND WAIT FOR WRITTEN RESOLUTION PRIOR TO PROCEEDING. WHERE WORK IS SHOWN TO BE ABOVE AND BEYOND THE REQUIREMENTS OF THE CODE, PROVIDE WORK AS SHOWN IN THE CONTRACT DOCUMENTS.
4. THE DESIGN OF MECHANICAL SYSTEMS HAS BEEN BASED UPON THE EQUIPMENT AS MANUFACTURED BY THE MANUFACTURERS LISTED ON THE EQUIPMENT SCHEDULES OR IN THE SPECIFICATIONS. EQUIPMENT NAMED IN THE SPECIFICATIONS MAY BE SUBSTITUTED PROVIDED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL SCHEDULED AND SPECIFIED CRITERIA AND HAS THE PRIOR WRITTEN APPROVAL OF THE ENGINEER. COORDINATE REVISIONS TO THE INSTALLATION WITH ALL TRADES AND GUARANTEE IN WRITING THAT NO ADDITIONAL COST WILL BE INCURRED DUE TO PRODUCT SUBSTITUTION.
5. CONTRACTOR SHALL FIELD VERIFY ALL BUILDING AND SITE DIMENSIONS BEFORE BEGINNING CONSTRUCTION OR ORDERING EQUIPMENT. DO NOT SCALE FROM PLANS. PLANS PROVIDED ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED OFFSETS, TRANSITIONS, OR CHANGES IN DIRECTION. PROVIDE ALL OFFSETS REQUIRED.
6. DUCT SIZES SHOWN ON PLAN ARE INTENDED TO INDICATE THE REQUIRED INTERIOR FREE AND CLEAR DIMENSIONS OF THE AIR STREAM. COORDINATE ACTUAL DUCT OUTER DIMENSIONS WITH REQUIREMENTS FOR HANGERS, SUPPORTS, THERMAL AND ACOUSTICAL INSULATION.
7. CONTRACTOR SHALL COORDINATE ALL MECHANICAL WORK WITH OTHER TRADES AND SUBCONTRACTORS PRIOR TO INSTALLATION OF ANY WORK BY ANY TRADES. DURING COORDINATION EFFORTS DUCT ROUTING SHALL TAKE PRECEDENCE OVER PLUMBING PIPE AND FIRE SPRINKLER WORK. PROVIDE SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO INSTALLATION AND FABRICATION TO DOCUMENT THE RESULTS OF THE COORDINATION.
8. PENETRATIONS THROUGH ROOF OR EXTERIOR WALLS SHALL BE SEALED WEATHER TIGHT. PENETRATIONS THROUGH CEILING OR INTERIOR WALLS SHALL BE SEALED SUBSTANTIALLY AIRTIGHT. BELOW GRADE WALLS OR SLABS SHALL BE SLEEVED AND SEALED WATERTIGHT. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE TREATED TO MEET OR EXCEED THE FIRE RATINGS OF SUCH WALLS.
9. PROVIDE ALL REQUIRED EQUIPMENT GUARDS AND STRUCTURAL SUPPORTS AS RECOMMENDED BY EQUIPMENT MANUFACTURERS TO SUPPORT EQUIPMENT AND TO ASSURE SYSTEM PERFORMANCE AND SAFE OPERATION. COORDINATE PRIOR TO INSTALLATION.
10. COORDINATE LOCATION OF ALL THERMOSTATS, AND ALL WALL MOUNTED EQUIPMENT, WITH THE ARCHITECT. THE LOCATIONS AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. IF NOT SHOWN ON ARCHITECTURAL ELEVATIONS, MOUNT WITH TOP OF EQUIPMENT NO HIGHER THAN 44" ABOVE FINISHED FLOOR.
11. PROVIDE UNIT SUPPORT PER MANUFACTURERS RECOMMENDATIONS. BUILDING AND STRUCTURE IS DESIGNED TO SUPPORT EQUIPMENT, BUT NOT DETAILED TO ACCOMMODATE EACH AVAILABLE EQUIPMENT CONFIGURATION OR MANUFACTURER. CONTRACTOR SHALL PROVIDE MATERIALS AND SERVICES INCLUDING BUT NOT LIMITED TO, ADDITIONAL STEEL, SUPPORT BRACKETS, HANGERS, ACCESSORIES, AND STRUCTURAL ENGINEERING AS REQUIRED TO SUPPORT EQUIPMENT.
12. PROVIDE FRAMING, CUTTING, BLOCKING AND PATCHING AS REQUIRED.
13. MAINTENANCE PROVISIONS: PROVIDE FLANGES OR UNIONS AT ALL PIPE CONNECTIONS TO EQUIPMENT TO ALLOW FOR REMOVAL OR DISASSEMBLY FOR MAINTENANCE.

APPLICABLE CODES

- 2018 INTERNATIONAL BUILDING CODE WITH WA STATE AMENDMENTS
- 2018 INTERNATIONAL ENERGY CODE WITH WA STATE AMENDMENTS
- 2018 INTERNATIONAL MECHANICAL CODE WITH WA STATE AMENDMENTS

S H K S ARCHITECTS

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www.shksarchitects.com

MECHANICAL INDEX

- M1.0 MECHANICAL NOTES AND LEGEND
- M2.1 MECHANICAL PLANS
- VT1.0 VT NOTES, SCHEDULES & ABBREVIATIONS
- VT2.1 ELEVATOR 2 PLANS AND SECTIONS
- VT3.1 ELEVATOR DETAILS

SUMP PUMP SCHEDULE

MARK	REMARKS
SP-1	SIMPLEX OIL MINDER SUMP PUMP. 50 GPM, 20 FT HEAD, 0.5 HP, 208V, 3P, 3.1 FLA, 15.5 LRA. PROVIDE WITH NO-HUB CONNECTION, CHECK VALVE, NEMA 4X CONTROL PANEL WITH ALARM. SET FLOAT TO ALLOW FOR MINIMUM RUN TIME OF 1 MINUTE PER PUMP CYCLE. CONNECT TO BAS FOR RUN STATUS AND HIGH LEVEL ALARM. BASIS OF DESIGN: STANCOR SE-50.

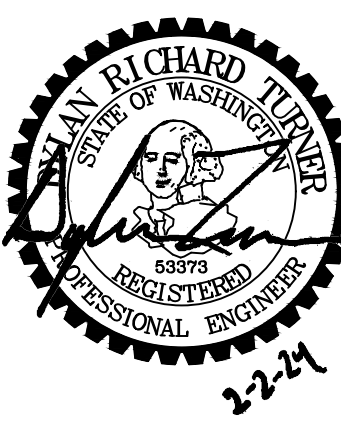
KCHA
VANTAGE POINT
ELEVATOR

BID SET

17901 105TH PL SE
RENTON, WA 98055

Drawn by: JA/JZ
Checked: DT
Date: 02/02/24
Scale: As indicated

Revisions:
No. Date Remarks



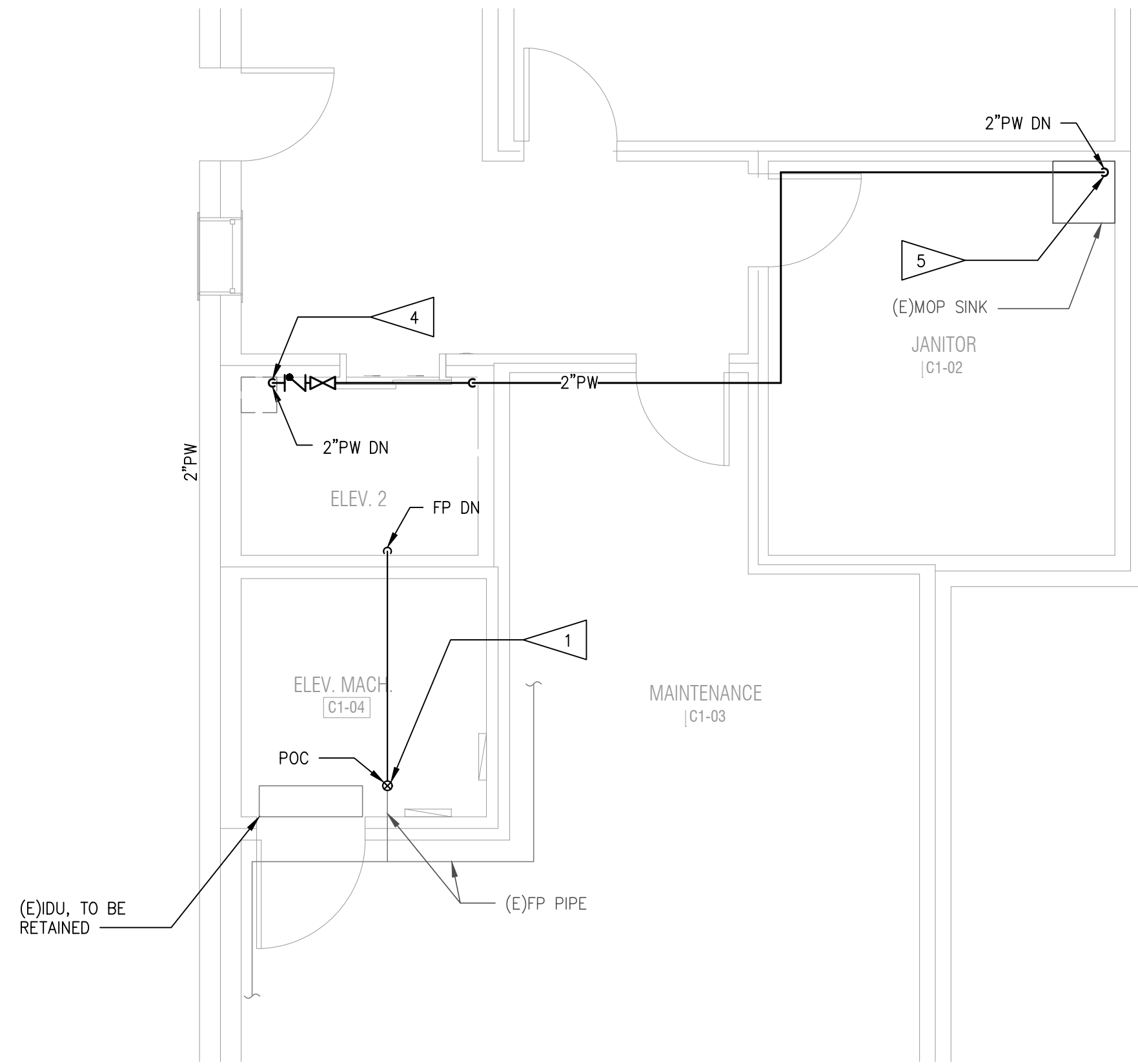
MECHANICAL
NOTES AND LEGEND
M1.0

SHEET NOTES:

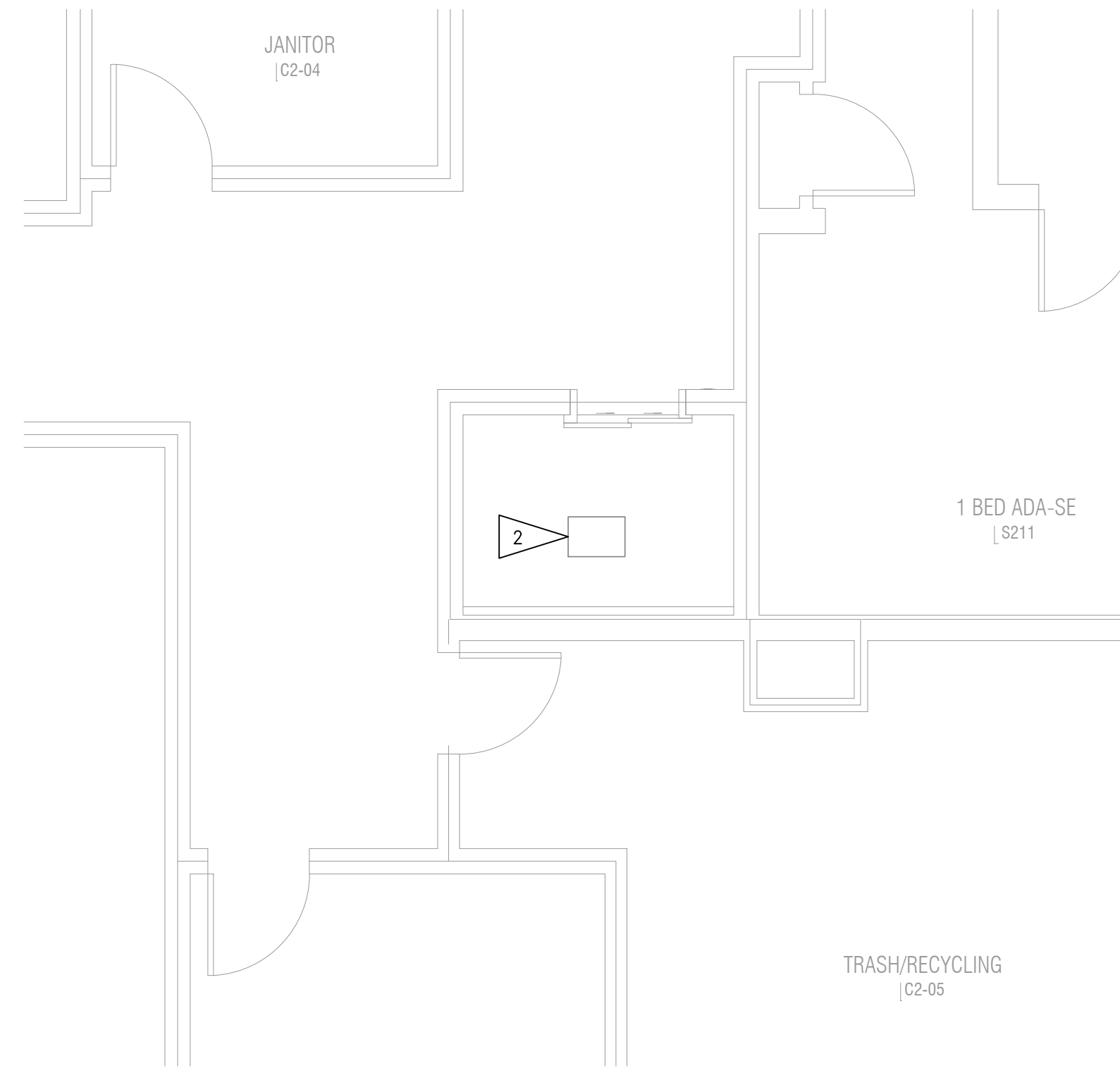
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO CONVEY EVERY COMPONENT OF THE ELEVATOR SYSTEM. REFER TO SPECIFICATION 14 24 00 AND ARCHITECTURAL SHEET FOR ADDITIONAL REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR PROVISION OF A COMPLETE, CODE COMPLIANT AND FUNCTIONAL SYSTEM.
- PROVIDE CUTTING AND PATCHING AS SPECIFIED AND AS REQUIRED TO INSTALL NEW PIPING AND EQUIPMENT.
- SPRINKLER SYSTEM IS AN EXISTING WET SYSTEM. CONFIRM SHUTOFF LOCATION AND COORDINATE SHUT DOWNS WITH OWNER.

FLAG NOTES:

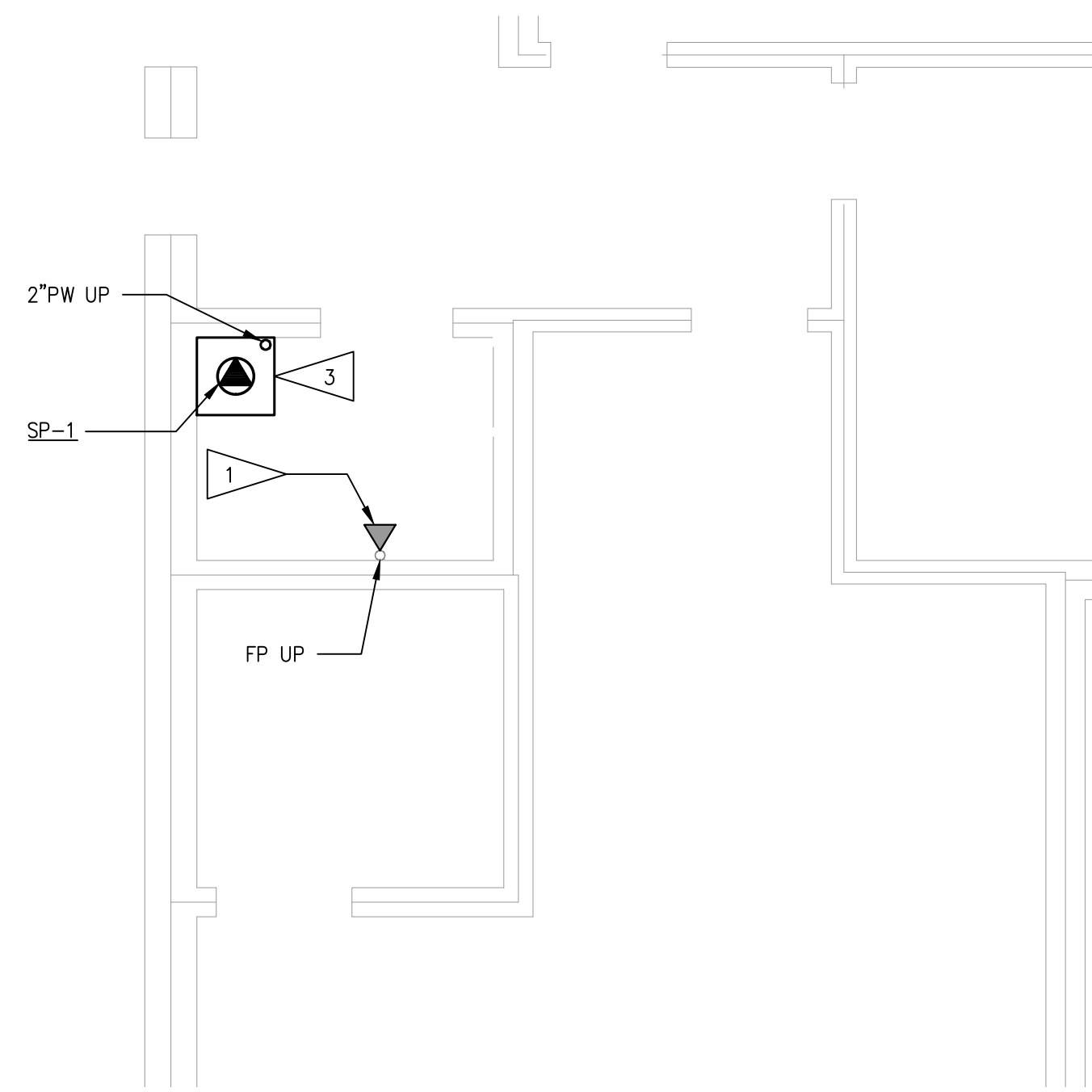
- REMOVE EXISTING SPRINKLER HEAD IN MACHINE ROOM. PROVIDE NEW UPRIGHT PENDANT SPRINKLER HEAD IN MACHINE ROOM AND SIDEWALL SPRINKLER HEAD IN ELEVATOR PIT, MOUNTED 24" ABOVE PIT FLOOR.
- REMOVE EXISTING DAMPER ACTUATOR AT THE TOP OF THE HOISTWAY AND LOCK DAMPER IN THE CLOSED POSITION.
- INSTALL SUMP PUMP SP-1 IN EXISTING SUMP PIT. CUT EXISTING GRATED COVER AS REQUIRED TO CONNECT NEW 2" PW PIPE AND POWER CONNECTION FOR PUMP.
- PROVIDE A THREADED CONNECTION IN PW PIPE AT SUMP FOR EASY REMOVAL OF SUMP PUMP.
- DISCHARGE PUMPED WASTE 6" ABOVE BOTTOM OF EXISTING MOP SINK.



1 MECHANICAL PLAN LEVEL 1
SCALE: 1/4" = 1'-0"



2 MECHANICAL OVERHEAD PLAN
SCALE: 1/4" = 1'-0"



3 MECHANICAL PIT PLAN
SCALE: 1/4" = 1'-0"

KCHA
VANTAGE POINT
ELEVATOR

BID SET

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MECHANICAL
PLANS

M2.1

ABBREVIATIONS:

&	AND
AC	AIR CONDITIONING, ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AMP	AMPERE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AUX	AUXILIARY
BM	BEAM
BSMT	BASEMENT
BOT	BOTTOM
BTUH	BRITISH THERMAL UNITS PER HOUR
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
CNTRL	CONTROLLER
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CWT	COUNTERWEIGHT
CYL	CYLINDER
°	DEGREES
Ø	DIAMETER
D	DEEP
DBG	DISTANCE BETWEEN GUIDE RAILS
DC	DIRECT CURRENT
DEH	DEAD END HITCH
DTL	DETAIL
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
ETS	EMERGENCY TERMINAL SLOWDOWN
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
(E)	EXISTING
°F	FAHRENHEIT
FPM	FEET PER MINUTE
FV	FIELD VERIFY
FF	FINISH FLOOR
FT	FOOT/FEET
F/O	FRONT OPENING
FUT	FUTURE
GA	GAUGE
GOV	GOVERNOR
G	GRAVITY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GWB	GYPSTUM WALL BOARD
HT	HEIGHT
HZ	HERTZ
H	HIGH
HSTWY	HOISTWAY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HYDR	HYDRAULIC
IN	INCH/INCHES
IGBT	INSULATED GATE BIPOLAR TRANSUDCER
J/S	JOULES PER SECOND
KCAL	KILOCALORIE
KG	KILOGRAMS
KN	KILONEWTONS
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
K	KIPS
MRL	MACHINE ROOM LESS
MAX	MAXIMUM
M	METER
MPS	METERS PER SECOND
MM	MILLIMETERS
MIN	MINIMUM
MISC	MISCELLANEOUS
MG	MOTOR GENERATOR
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
(N)	NEW
NOM	NOMINAL
N/A	NOT APPLICABLE
(NIEC)	NOT IN ELEVATOR/ESCALATOR CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE

OA	OVERALL
OVHD	OVERHEAD
PL	PLATE
PLTFM	PLATFORM
#	POUNDS
PSI	POUNDS PER SQUARE INCH
PRELIM	PRELIMINARY
RAD	RADIUS
R/O	REAR OPENING
REQ	REQUIRED
RO	ROUGH OPENING
SBC	SEATTLE BUILDING CODE
SEC	SECONDARY
SCR	SILICON CONTROL RECTIFIER
SIM	SIMILAR
SPEC	SPECIFICATION
SF	SQUARE FEET
SM	SQUARE METERS
STD	STANDARD
STB	STANDARD BUILDING CODE
STL	STEEL
STRUCT	STRUCTURAL
SW	SWITCH
T.O.	TOP OF
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VERT	VERTICAL
W	WIDE
W/	WITH
WP	WORKPOINT

NOTE:
SOME ABBREVIATIONS MAY NOT BE IN USE IN THIS DRAWINGS SET.

GENERAL NOTES:

- FURNISH ADEQUATE ON-SITE WASTE CONTAINERS FOR THE PROPER DISPOSAL OF ELEVATOR PACKAGING MATERIAL.
- PROVIDE AND INSTALL SUPPORTS AT EACH FLOOR, IN THE PIT AND IN THE OVERHEAD FOR CAR AND COUNTERWEIGHT GUIDE RAIL FASTENING. PROVIDE INTERMEDIATE SUPPORTS WHERE FLOOR HEIGHTS EXCEED SPACING REQUIREMENTS SHOWN ON DRAWINGS. SUPPORTS NOT TO DEFLECT IN EXCESS OF 6.4MM (1/4") UNDER SEISMIC CONDITIONS.
- GUIDE RAIL BRACKET SUPPORTS IN CONCRETE. INSERTS OR IMBEDS, IF USED, WILL BE PROVIDED AND INSTALLED BY CONTRACTOR. VERIFY LOCATION ON SHOP DRAWINGS.
- BLOCKOUT/CUTOUT THROUGH WALL AS REQUIRED, TO INSTALL HALL BUTION BOXES, SIGNAL FIXTURES, AND HATCH DUCT. PROVIDE FOR ANY REPAIRS SUCH AS GROUTING, PATCHING, PAINTING, OR FIRE PROOFING.
- SUPPLY SILL SUPPORT ANGLES IF REQUIRED PER ELEVATOR MANUFACTURER'S LAYOUT DRAWING.
- GROUT AROUND ENTRANCE FRAMES AND FINISHED FLOOR AND GROUT TO SILL LINE AFTER INSTALLATION OF ENTRANCE.
- INSTALL CONSTRUCTION BARRICADES OUTSIDE OF ELEVATOR HOISTWAY(S). BARRICADES TO BE FREESTANDING AND REMOVABLE, LOCATED AT EACH HOISTWAY OPENING AT EACH FLOOR.
- INSTALL ADEQUATE SEALING AND WATERPROOFING OF PIT TO PREVENT INTRUSION OF GROUNDWATER.
- PROVIDE PUMP OR DRAIN CAPABLE OF REMOVING 50 GPM. REFER TO MECHANICAL DRAWINGS.
- GFCI CONVENIENCE OUTLET AND LIGHT FIXTURE WITH GUARD IN PIT. MINIMUM LIGHTING TO BE 100 LUX (10FC).
- INSTALL PIT ACCESS LADDER IN A CODE-COMPLIANT LOCATION. REFER TO DRAWINGS.
- REFER TO ELEVATOR MANUFACTURER'S LAYOUT DRAWINGS FOR FINAL LOCATION AND LOADING REQUIREMENTS FOR HOIST BEAM. CONTRACTOR TO CONFIRM IF EXISTING HOIST BEAM IS ACCEPTABLE.

HOISTWAY / PIT NOTES:

MACHINE ROOM NOTES:

- MACHINE ROOM DOOR(S) SHALL BE SELF-CLOSING, SELF-LOCKING AND OPERABLE FROM INSIDE WITHOUT A KEY.
- BLOCK-OUTS THROUGH MACHINE ROOM FLOOR AND/OR WALLS FOR ELECTRICAL WIRING DUCTS. VERIFY LOCATION ON ELEVATOR CONTRACTOR SHOP DRAWINGS.
- ONLY EQUIPMENT USED IN CONJUNCTION WITH THE FUNCTION OF THE ELEVATOR SHALL BE PERMITTED IN THE ELEVATOR CONTROL ROOM. ACCESS THROUGH ELEVATOR MACHINE ROOM TO ADJACENT ROOMS OR AREAS SHALL NOT BE PERMITTED. PERMANENT AND UNOBSTRUCTED ACCESS TO MACHINE ROOM SHALL BE PROVIDED FOR AUTHORIZED PERSONNEL.

ELECTRICAL NOTES:

ELEVATOR NOTES:

- ASME SECTIONS 2.7 AND 2.8. PIPES, DUCTS, CONDUITS, AND EQUIPMENT NOT USED FOR THE OPERATION OF THE ELEVATORS ARE PROHIBITED IN MACHINE ROOM AND HOISTWAYS.
- MAINTAIN ALL REQUIRED WORKING CLEARANCES IN MACHINE ROOM.
- ASME RULE 2.2.2. WATERPROOF AS NECESSARY TO PREVENT ENTRY OF GROUND WATER. SUMP PUMPS MAY BE INSTALLED FOR FLOOD CONTROL BUT NOT APPROVED TO MAINTAIN A DRY PIT.
- ASME RULE 2.2.4. INSTALL OWNER-PROVIDED PIT LADDER IN ACCORDANCE WITH CODE REQUIREMENTS.
- COMPLY WITH SEISMIC REQUIREMENTS.
- ASME RULE 2.7.4. PROVIDE 7'-0" CLEAR HEADROOM IN MACHINE ROOM.
- ACCOMMODATE PEOPLE WITH DISABILITIES.
- ASME SECTION 2.4 AND 3.4. PROVIDE PROPER TOP CAR RUNBYS, CLEARANCES AND REFUGE SPACE.
- ASME RULE 2.1.1.2 AND 2.11.14. GROUT ALL MASONRY JAMBS AND HEADERS TO RETAIN FIRE RATING OF HOISTWAY. IN OTHER THAN MASONRY, PROVIDE LABELED ENTRANCE ASSEMBLIES INSTALLED AS TESTED.
- ELEVATOR HOISTWAYS SHALL NOT BE VENTED OR PRESSURIZED THROUGH ELEVATOR MACHINE ROOMS.
- PROVIDE CALCULATIONS AND DRAWINGS TO AHJ FOR APPROVAL OF THE STRESSES AS NOTED IN THE APPLICABLE RULES OF ASME SECTION 2.9.
- ASME SECTION 2.6. PROVIDE CALCULATIONS TO AHJ FOR APPROVAL OF THE ABILITY OF THE PIT FLOOR AND STRUCTURE TO WITHSTAND THE ELEVATOR BUFFER ENGAGEMENT REACTIONS.
- ASME 2.27.1. PROVIDE MEANS OF TWO-WAY CONVERSATION BETWEEN EACH ELEVATOR AND A READILY ACCESSIBLE POINT (MAIN ELEVATOR LOBBY) OUTSIDE THE HOISTWAY.
- ASME 2.27.1.1.2 THIS STRUCTURE IS CONSIDERED AS UNATTENDED, AND AN ADDITIONAL EMERGENCY SIGNALING DEVICE SHALL BE PROVIDED (2-WAY AUDIO/VIDEO COMMUNICATION DEVICE CONNECTED TO AN ANSWERING SERVICE).
- ASME 2.27.1.1.5 PROVIDE AN EMERGENCY POWER SUPPLY FOR THE DEVICES REQUIRED BY 2.27.1 THE SUPPLY SHALL BE CAPABLE OF OPERATING THE AUDIBLE DEVICE FOR AT LEAST ONE HOUR AND THE MEANS OF A TWO-WAY CONVERSATION FOR AT LEAST FOUR HOURS.
- INSTALL APPROVED KEY RETAINER BOX, KEYED TO THE SECURE CITY KEY.
- KEYS REQUIRED FOR THE OPERATION OF ELEVATOR, FIRE EMERGENCY SERVICE, THE MACHINE ROOM AND THE MECHANICAL HOISTWAY ACCESS KEY SHALL BE TAGGED AND KEPT IN THE KEY BOX.
- COMPLY WITH APPLICABLE CODES.

POWERFEEDER REQUIREMENTS (MAIN POWER SUPPLY: 208-3-60)							
ELEVATOR	CAPACITY (LBS)	SPEED (FPM)	MOTOR HP	AMPS			HEAT REJECTED
				FULL LOAD	STARTING	LOCKED MOTOR	MACHINE SPACE (BTUH)
1	2100	125	30	90	270	471	12658

NOTES:

- POWER AND CURRENT ARE BASED ON THREE PHASE AC POWER SUPPLY AND ONE MANUFACTURER'S STANDARD. VALUES MAY VARY BETWEEN MANUFACTURERS.
- USE COPPER CONDUCTORS ONLY.
- EACH CONTROLLER TO BE PROVIDED MAIN POWER THROUGH DISCONNECTING MEANS MEETING NEC REQUIREMENTS.
- DISCONNECTING MEANS TO BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- HEAT RELEASE BASED ON 80 UPSTARTS/HR.
- MACHINE SPACE TEMPERATURE TO BE MIN. 55° F, MAX. 90° F.
- RELATIVE HUMIDITY TO BE MAX 80%

ADDITIONAL MACHINE ROOM POWER AND DISCONNECT REQUIREMENTS		
SYSTEM:	VOLTAGE:	CIRCUIT
CAR LIGHTING, FAN & CONVENIENCE RECEPTACLE	120 – 1 – 60	20 A
MACHINE ROOM LIGHTING (E)	120 – 1 – 60	20 A
GFCI RECEPTACLE	120 – 1 – 60	20 A
PIT LIGHTING	120 – 1 – 60	20 A
PIT GFCI RECEPTACLE	120 – 1 – 60	20 A
MACHINE ROOM AC UNIT (E)	208 – 1 – 60	20 A

KCHA
VANTAGE POINT
ELEVATOR

BID SET

17901 105TH PL SE
RENTON, WA 98055

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Date:	02/02/24
Scale:	As indicated
Revisions:	
No. Date	Remarks



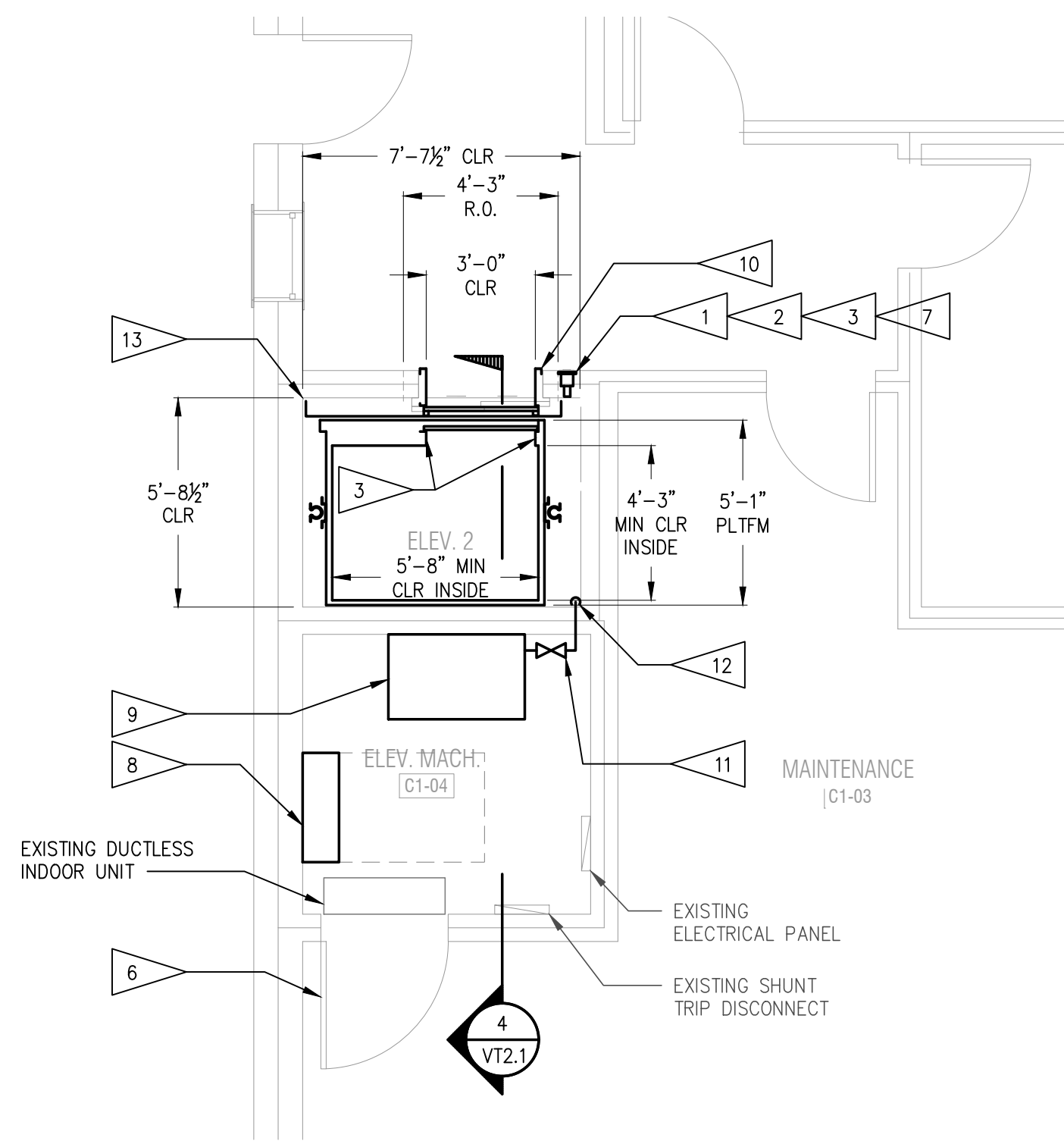
VT NOTES,
SCHEDULES &
ABBREVIATIONS
VT1.0

SHEET NOTES:

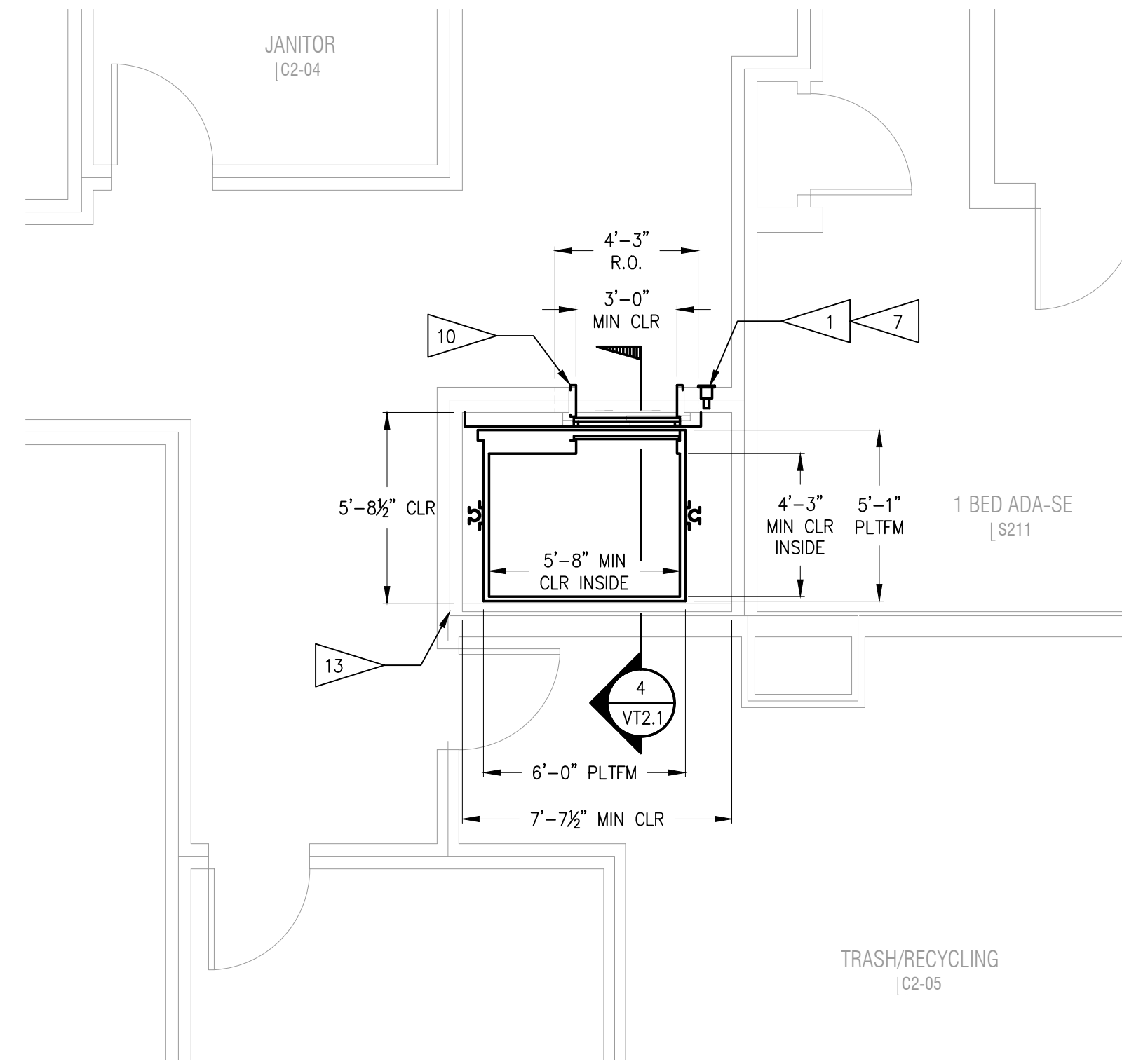
1. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO CONVEY EVERY COMPONENT OF THE ELEVATOR SYSTEM. REFER TO SPECIFICATION 14 24 00 AND ARCHITECTURAL SHEET FOR ADDITIONAL REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR PROVISION OF A COMPLETE, CODE COMPLIANT AND FUNCTIONAL SYSTEM.
2. PROVIDE CUTTING AND PATCHING AS SPECIFIED AND AS REQUIRED TO INSTALL NEW PIPING AND EQUIPMENT.
3. CONFIRM PRIMARY AND SECONDARY EGRESS FLOORS WITH FIRE DEPARTMENT.

FLAG NOTES:

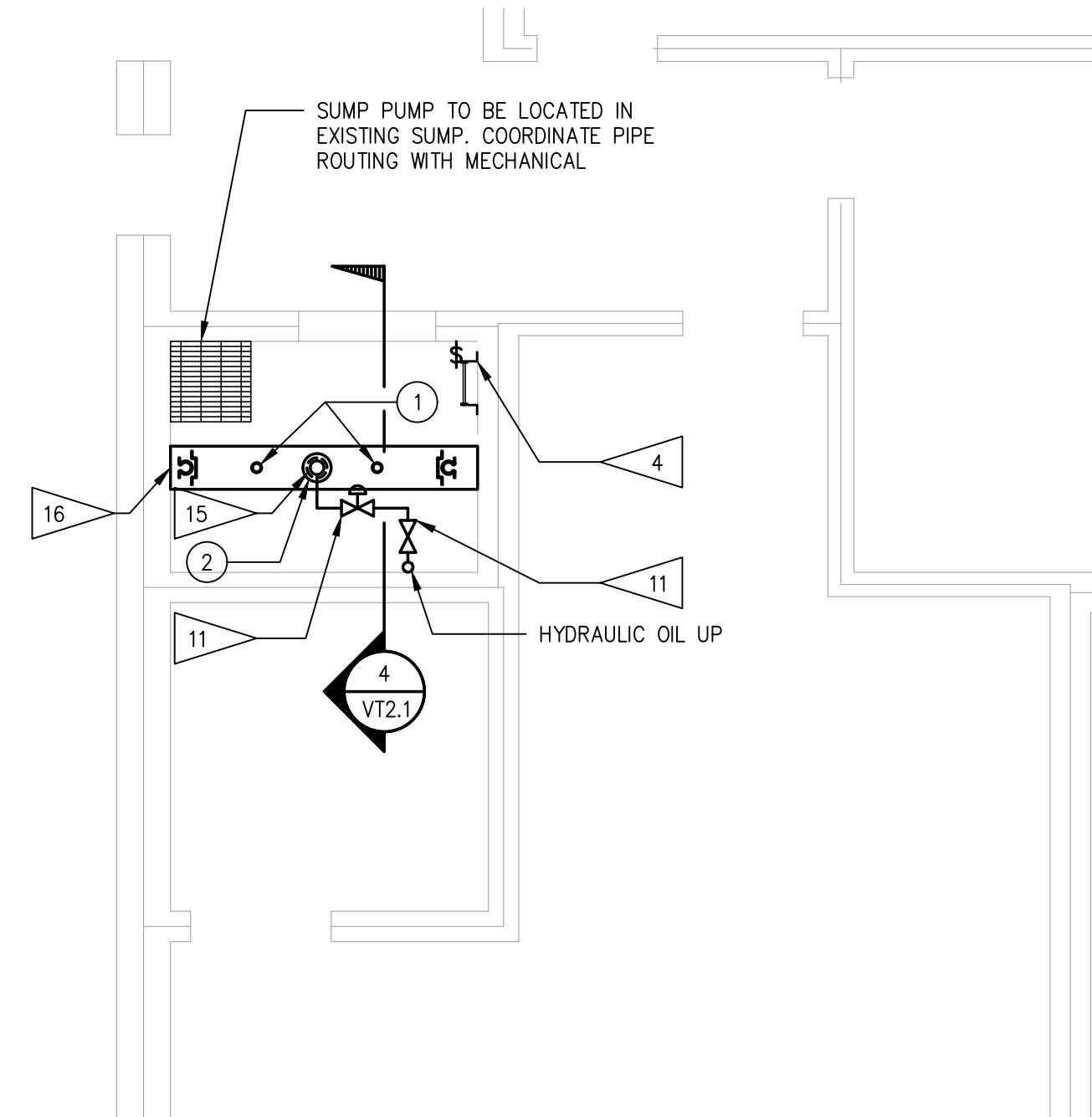
1. PROVIDE NEW FLUSH-MOUNTED HALL CALL BUTTONS TO MEET ACCESSIBILITY REQUIREMENTS PER ADA AND ANSI. REFER TO FIXTURE DETAILS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE POSITION INDICATOR INTEGRATED WITHIN HALL FIXTURE AT FLOOR 1. REFER TO FIXTURE DETAILS FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE DIRECTIONAL RIDING LANTERNS ON EACH SIDE OF CAR ENTRANCE.
4. INSTALL OWNER-PROVIDED PIT ACCESS LADDER WITHIN REACH OF ACCESS DOOR.
5. PROVIDE NEW TERMINAL LIMIT SWITCHES.
6. PROVIDE MACHINE ROOM DOOR SIGNAGE.
7. PROVIDE HOISTWAY ACCESS SWITCHES INTEGRATED WITHIN HALL FIXTURE AT BOTTOM & TOP TERMINAL LANDINGS.
8. PROVIDE NEW SOLID STATE, MICROPROCESSOR BASED CONTROLLER WITH VVVF DRIVE.
9. PROVIDE NEW SUBMERSIBLE HYDRAULIC POWER UNIT.
10. PROVIDE NEW HOISTWAY DOORS AND FRAMES, ALL LEVELS.
11. PROVIDE SHUTOFF VALVES IN MACHINE ROOM AND PIT. PROVIDE RUPTURE VALVE IN PIT.
12. PROVIDE CUTOFF FOR PIPING AND CONDUIT. COORDINATE SIZE AND LOCATION WITH ELEVATOR INSTALLER.
13. CONTRACTOR TO FIELD-VERIFY EXISTING HOISTWAY DIMENSIONS AND PROVIDE PLATFORM AND CAR ENCLOSURE CAPABLE OF FITTING INTO EXISTING HOISTWAY AND MEETING ACCESSIBILITY REQUIREMENTS AND SPECIFIED CAPACITY.
14. REMOVE EXISTING HOIST BEAM AND PROVIDE NEW HOIST BEAM CAPABLE OF SUPPORTING AT LEAST 5,000 LBS.
15. BORE NEW HOLE FOR IN-GROUND JACK, PROVIDE COMPLETE NEW JACK ASSEMBLY, CASING, AND PIT CHANNELS. SCAN CONCRETE BEFORE BORING TO CONFIRM EXISTING REBAR CONFIGURATION. ADD ADDITIONAL MEMBERS AS NECESSARY TO MAINTAIN STRUCTURAL INTEGRITY OF PIT SLAB. COAT ANY REBAR THAT IS CUT OR EXPOSED IN THE BORING PROCESS.
16. PROVIDE SPRING BUFFERS, PIT CHANNELS, AND GUIDERAILS PER SPECIFICATION.



1 ELEVATOR PLAN LEVEL 1
SCALE: 1/4" = 1'-0"



2 ELEVATOR PLAN LEVEL 2 - 4
SCALE: 1/4" = 1'-0"



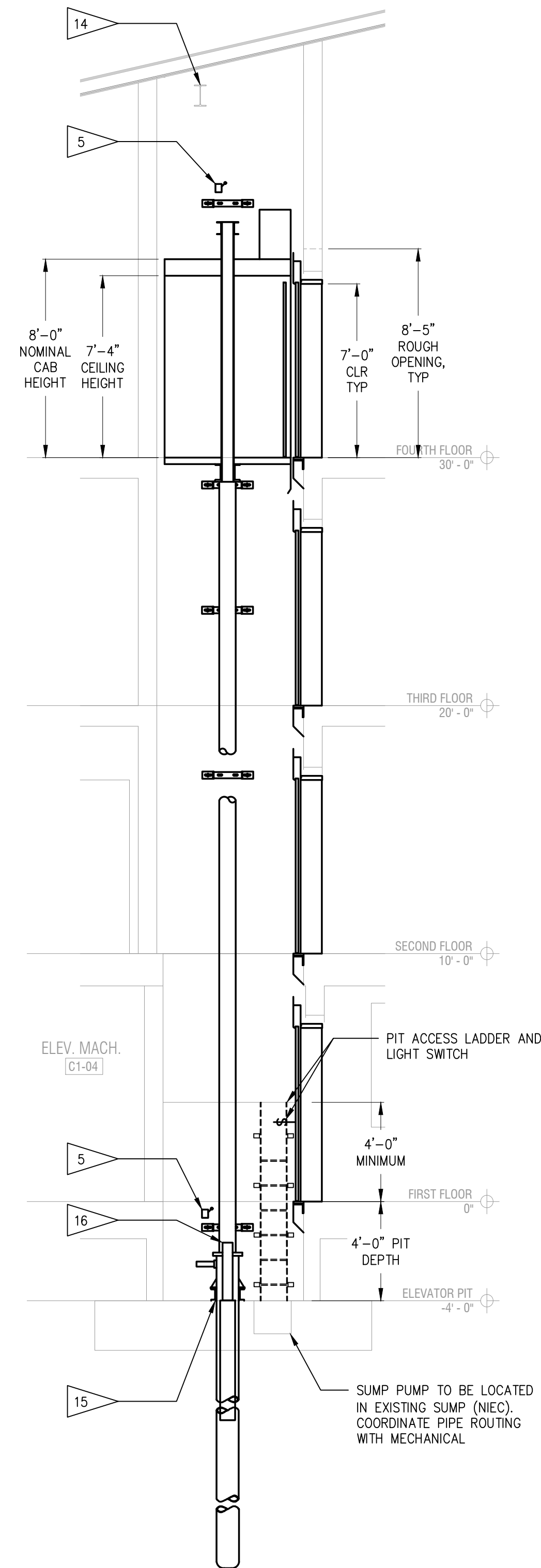
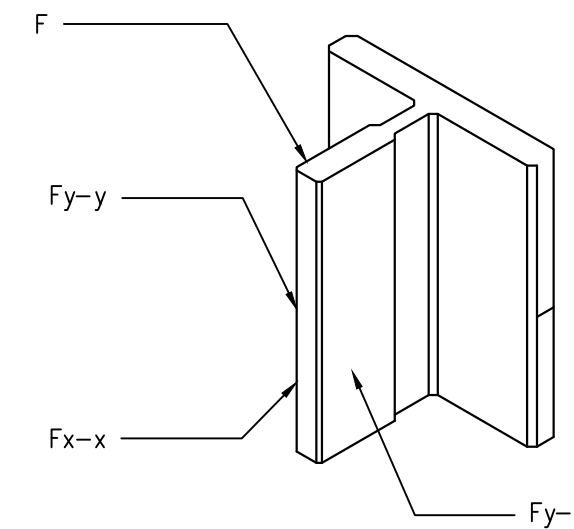
3 ELEVATOR PIT PLAN
SCALE: 1/4" = 1'-0"

PIT REACTIONS (KIPS)		
LOCATION	REACTION	DESCRIPTION
1	7410	BUFFERS (EACH)
2	7062	JACK LOAD ON PIT CHANNEL

RAIL REACTIONS (LBS)		
	FX-X	FY-Y
CAR SEISMIC	1490	745
CAR LOADING/RUNNING	269	180

REACTIONS NOTES:

1. REACTIONS SHOWN ARE FOR PRELIMINARY COORDINATION ONLY. FINAL REACTIONS MAY VARY AND ARE TO BE COORDINATED WITH ELEVATOR MANUFACTURER.
2. ALL REACTIONS HAVE BEEN DOUBLED FOR IMPACT.
3. MAXIMUM ALLOWABLE DEFLECTION PER ASME A17.1 AT RAIL BRACKET SUPPORT LOCATIONS IS 1/8" FOR LOADING AND RUNNING LOADS AND 1/4" FOR SEISMIC LOADS/ SAFETY APPLICATION.
4. REACTIONS ARE PER EACH RAIL.



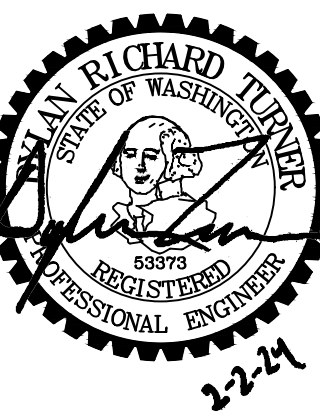
4 ELEVATOR SECTION
SCALE: 1/4" = 1'-0"

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VANTAGE POINT
ELEVATOR

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ELEVATOR 2 PLANS
AND SECTIONS
VT2.1

GENERAL NOTES

- PROVIDE ALL CONDUIT, BOXES AND WIRE AS REQUIRED BY WAC, NEC AND SPECIFICATIONS SECTIONS 260510, 260511, 260519, 260532 AND 260533 FOR A FULLY FUNCTIONING SYSTEM.
- PERFORM WORK IN ACCORDANCE WITH APPLICABLE NATIONAL AND STATE CODES AS AMENDED LOCALLY AND ENFORCED BY THE AHJ.
- OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF WORK. ARRANGE AND SCHEDULE REQUIRED INSPECTIONS.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE. PROVIDE COMPONENTS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
- DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH OWNER AND APPROPRIATE DOCUMENTS INCLUDING CASEWORK AND SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
- COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE AND INSTALLATION OF WORK.
- COORDINATE LOCATION OF LIGHT FIXTURES AND CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS.
- PROVIDE RATED ENCLOSURES, AROUND ALL LIGHT FIXTURES PENETRATING RATED CEILINGS. COORDINATE WITH ARCHITECTURAL.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	Manufacturer NAME	MANUFACTURER CATALOG NO.	QTY.	LAMP TYPE	WATTAGE	BALLAST/ DRIVER	INPUT WATTS	REMARKS
V2	FAIL SAFE VANDAL RESISTANT VAPORITE LED FIXTURE	COOPER LIGHTING	2VRVT3-LD5-3-W-120V-EL10W-L835-CD1	1	LED	3500	DIMMING	25	SURFACE MOUNT. PROVIDED MOUNTING HARDWARE AS REQUIRED. FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK
V4	FAIL SAFE VANDAL RESISTANT VAPORITE LED FIXTURE	COOPER LIGHTING	4VRVT3-LD5-5-W-120V-EL10W-L835-CD1	1	LED	3500	DIMMING	44	SURFACE MOUNT. PROVIDED MOUNTING HARDWARE AS REQUIRED. FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	HP /KW /VA	VOLTS / PHASE	MCA	FUSE (MOCP)	DISC. SWITCH	CIRCUIT	TAG	REMARKS	NOTES
(E) ODU-1	OUTDOOR UNIT	-	-	-	-	X	-	(E) ODU-1	EXISTING UNIT	1
(E) IDU-1	INDOOR UNIT	-	-	-	-	-	-	(E) IDU-1	EXISTING UNIT	1
SP-1	ELEVATOR SUMP PUMP	1/2 HP	208	5	15	-	-	SP-1	NEW UNIT	2,3

SCHEDULE NOTES

(APPLIES TO SPECIFIC EQUIPMENT AS NOTED IN "NOTES" COLUMN)

- EXISTING UNIT SHOWN FOR REFERENCE ONLY
- POWER WIRING, CONDUIT AND DISCONNECT BY E.C. COORDINATE WITH M.C.
- NEMA 4X CONTROL PANEL WITH ALARM PROVIDED AND LOCATED BY MECHANICAL. EC TO CONFIRM POWER AND DISCONNECTING MEANS REQUIREMENTS PRIOR TO ROUGH-IN.

ELECTRICAL LEGEND

POWER RECEPTACLES & OUTLETS

- ⊖ SINGLE RECEPTACLE
- ⊖ DUPLEX RECEPTACLE
- ⊖ DOUBLE DUPLEX RECEPTACLE
- ⊖ DUPLEX GFCI RECEPTACLE
- ⊖ DOUBLE DUPLEX GFCI RECEPTACLE
- ⊖ DUPLEX RECEPTACLE MOUNTED IN CEILING
- ⊖ DOUBLE DUPLEX RECEPTACLE MOUNTED IN CEILING
- ⊖ DUPLEX RECEPTACLE MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH, WHEN PRESENT (U.O.N.)
- ⊖ DOUBLE DUPLEX RECEPTACLE MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH, WHEN PRESENT (U.O.N.)
- ⊖ DUPLEX GFCI RECEPTACLE MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH, WHEN PRESENT (U.O.N.)
- ⊖ DOUBLE DUPLEX GFCI RECEPTACLE MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH, WHEN PRESENT (U.O.N.)
- ⊖ WP GFCI RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER

FLOOR POKE-THRU WITH DEVICES SHOWN

- ⊖ DUPLEX RECEPTACLE WITH 1/2 SWITCHED
- ⊖ DOUBLE DUPLEX RECEPTACLE WITH 1/2 SWITCHED
- ⊖ TAMPER RESISTANT RECEPTACLE
- ⊖ SINGLE SPECIAL PURPOSE RECEPTACLE
- ⊖ JUNCTION BOX WITH BLANK COVER
- ⊖ FURNITURE SYSTEM POWER FEED. CONNECT CONDUCTORS TO FURNITURE SYSTEM FLEX CONDUIT PROVIDED BY OTHERS. VERIFY REQUIREMENTS.

TELE/COMMUNICATIONS SYSTEM DEVICES

- ◀ TELEPHONE
- ◀ W WALL MOUNTED TELEPHONE (VERIFY MOUNTING HEIGHT)
- ◀ SINGLE GANG TELEPHONE/DATA OPENING
- ◀ WAP WIRELESS ACCESS POINT
- ⊖ JUNCTION BOX & CONDUIT FOR FURNITURE SYSTEM TELE/DATA CONNECTIONS
- ⊖ DATA/COMM OUTLET (NUMBER INDICATES NUMBER OF JACKS. "B" INDICATES BLANK PLATE)
- ◀ TTB TELEPHONE TERMINAL BOARD - 3/4" FIRE RESISTANT PLYWOOD, 8' HIGH x LENGTH SHOWN ON PLAN

SERVICE GEAR - AS SHOWN ON PLANS

- ◀ CIRCUIT BREAKER PANELBOARD
- ◀ EXISTING PANELBOARD TO REMAIN
- ◀ TERMINAL CABINET
- ◀ SWITCHBOARD OR MOTOR CONTROL CENTER, SIZE AS SHOWN ON PLANS
- ◀ T DRY TYPE TRANSFORMER (SEE NOTES & RISER DIAGRAM FOR SIZE)
- ◀ TRANSFER SWITCH
- ◀ 1 GROUND BAR

EQUIPMENT CONNECTIONS & CONTROLS

- ⊖ EQUIPMENT CONNECTION
- ⊖ MOTOR CONNECTION
- ⊖ FAN CONNECTION
- ⊖ ELECTRIC WALL HEATER CONTROLLED BY WALL MOUNTED THERMOSTAT
- ⊖ ELECTRIC WALL HEATER WITH INTEGRAL THERMOSTAT
- ⊖ DISCONNECT SWITCH
- ⊖ FUSED DISCONNECT SWITCH
- ⊖ MAGNETIC MOTOR STARTER
- ⊖ COMBINATION STARTER AND DISCONNECT
- ⊖ ENCLOSED CIRCUIT BREAKER
- ⊖ PUSHBUTTON SWITCH
- ⊖ M MOTOR RATED SWITCH
- ⊖ T WALL MOUNTED THERMOSTAT

NOTES AND MISCELLANEOUS SYMBOLS

- 3 FLAGNOTE - IDENTIFIES A SPECIFIC ITEM ON A DRAWING. CORRESPONDS TO A SCHEDULE IN THE ELECTRICAL SET THAT EXPLAINS DETAILS OR FEATURES OF THAT ITEM.
- FF-3 MECHANICAL FLAG - DEFINES MECHANICAL EQUIPMENT AND CORRESPONDS TO DESIGNATIONS IN MECHANICAL PLANS AND SCHEDULES. CORRESPONDS MECHANICAL CONNECTION SCHEDULE IN THE ELECTRICAL SET.
- REVISION CLOUD AND FLAG - CLOUD SURROUNDS INFORMATION THAT HAS BEEN REVISED. FLAG IDENTIFIES THE REVISION IN WHICH THE CHANGES WERE MADE.
- 3 DETAIL NUMBER - APPEARS IN FRONT OF A TITLE ON DRAWINGS WITH MORE THAN ONE ILLUSTRATION.
- 3 E1.1 IDENTIFICATION SYMBOL - CROSS REFERENCES INFORMATION IN ONE AREA WITH A DETAIL (TOP #) AND SHEET (BOTTOM #) IN ANOTHER IN THE ELECTRICAL SET.

CONDUITS AND CIRCUITING

- WIRING CONCEALED IN CEILING OR WALL
- WIRING CONCEALED UNDER FLOOR OR UNDERGROUND
- CONDUIT HOME-RUN
- CONDUCTORS IN CONDUIT
- PHASE CONDUCTOR(S)
- NEUTRAL CONDUCTOR
- GROUND CONDUCTOR
- GROUND WIRE
- CONDUIT BENDS TO CHANGE ELEVATION AT THIS POINT
- CONDUIT STUB-UP
- CONDUIT BREAK
- CONDUIT CONTINUES ELSEWHERE (NOTED ON PLAN)
- CONDUIT TO BE REMOVED
- MULTI-OUTLET ASSEMBLY (SEE NOTES ON PLAN)

LIGHT FIXTURES & CONTROLS

NOTE: LIGHTING FIXTURE SYMBOLS SHOW LENGTH, MOUNTING & EMERGENCY EGRESS INFORMATION ONLY. REFER TO FIXTURE DESIGNATIONS & LIGHTING FIXTURE SCHEDULE FOR LAMP TYPE & OTHER FIXTURE SPECIFICS.

- ⊖ RECESSED DOWNLIGHT
- ⊖ PENDANT MOUNTED FIXTURE OR CHANDELIER
- ⊖ SINGLE POINT SOURCE WALL MOUNTED FIXTURE
- ⊖ SURFACE MOUNTED LINEAR FIXTURE (NARROW BODY)
- ⊖ RECESSED LINEAR FIXTURE
- ⊖ PENDANT MOUNTED LINEAR FIXTURE
- ⊖ WALL MOUNTED LINEAR FIXTURE
- ⊖ LINEAR STRIP FIXTURE
- ⊖ WALL MOUNTED STRIP FIXTURE
- ⊖ LINEAR UNDERCOUNTER FIXTURE
- ⊖ LED Cove or Under Counter Light (LENGTH AS SHOWN ON PLAN)
- ⊖ TRACK LIGHT (LENGTH AS SHOWN ON PLAN)
- ⊖ RECESSED LINEAR 2'x4' FIXTURE
- ⊖ RECESSED LINEAR 2'x2' FIXTURE

EMERGENCY EGRESS FIXTURES: SHADED FIXTURES REPRESENT A CONNECTION TO EMERGENCY EGRESS LIGHTING CIRCUIT VIA UL924 RELAY. DUAL CIRCUITS - NORMAL & EMERGENCY SHOWN ON PLAN AS NORMAL#/EM# OR NORMAL#

- ⊖ SURFACE LINEAR FIXTURE ON EMERGENCY EGRESS CIRCUIT
- ⊖ RECESSED LINEAR FIXTURE ON EMERGENCY EGRESS CIRCUIT
- ⊖ SINGLE POINT FIXTURE ON EMERGENCY EGRESS CIRCUIT
- ⊖ UNIVERSAL/CEILING MOUNTED EXIT SIGN
- ⊖ DIRECTIONAL EXIT SIGN (ARROWS INDICATE ONE OR TWO SIDES AND DIRECTION INDICATED)
- ⊖ EMERGENCY EXIT SIGN WITH DUAL PATHWAY HEADS
- ⊖ DUAL HEAD EMERGENCY EGRESS FIXTURE
- S SINGLE POLE LIGHT SWITCH
- S³ THREE POLE LIGHT SWITCH (NUMBER INDICATES NUMBER OF POLES USED)
- S_D DIMMER SWITCH
- S_{OS} OCCUPANCY SENSOR LIGHT SWITCH
- S_{VS} VACANCY SENSOR LIGHT SWITCH
- S_{LV} LOW VOLTAGE SWITCH CONTROLLED BY ROOM SENSOR
- S_{LV D} LIGHT SWITCH SUBSCRIPTS ARE AS FOLLOWS:
LV = LOW VOLTAGE, D = DIMMING
b = LOWER CASE LETTER CORRESPONDS TO LETTER AT FIXTURES TO BE CONTROLLED
R# = RELAY # IN LIGHTING CONTROL PANEL
S# = SENSOR ZONE

- ⊖ OCCUPANCY SENSOR
- ⊖ VACANCY SENSOR
- ⊖ PHOTOCELL LIGHT SENSOR
- ⊖ PHOTOCELL AIMED NORTH, MOUNTED ON BUILDING EXTERIOR
- ⊖ LIGHT SWITCH WITH PILOT LIGHT
- ⊖ KEYED SWITCH
- ⊖ LED TRANSFORMER - SHOWN AS NEEDED
- NOTE: THESE STANDARDS APPLY ON ALL ELECTRICAL DRAWINGS UNLESS NOTED OTHERWISE.
- ⊖ SYMBOLS SHOWN ON PLANS IN STANDARD (HEAVY) LINE WEIGHT ARE NEW OR RELOCATED WORK.
- ⊖ SYMBOLS SHOWN IN LIGHT LINE WEIGHT OR (E) DESIGNATED WITH (E) INDICATE EXISTING TO REMAIN.
- ⊖ SYMBOLS SHOWN AS DASHED INDICATE ITEMS TO BE REMOVED OR DEMOLISHED.

SECURITY SYSTEM EQUIPMENT

- ⊖ SSP SECURITY SYSTEM PANEL
- ⊖ CRD CARD READER ACCESS OUTLET
- ⊖ ES ELECTRIC STRIKE FOR ACCESS DOOR CONTROL
- ⊖ REQ REQUEST TO EXIST
- ⊖ VL VIDEO ENTRY LIGHT
- ⊖ SC SECURITY CAMERA
- ⊖ RPS REMOTE PUSHBUTTON DOOR CONTROL SWITCH
- ⊖ DB DOORBELL

ABBREVIATIONS

- A (200A) (AFTER A NUMBER) = AMPS
- AF(200AF) (AFTER A NUMBER) = FUSE SIZE IN AMPS
- AFF ABOVE FINISHED FLOOR
- AHJ AUTHORITY HAVING JURISDICTION
- AL ALUMINUM
- ATS AUTOMATIC TRANSFER SWITCH
- BKR BREAKER
- C CONDUIT
- CKT CIRCUIT
- CL CENTERLINE
- CLG CEILING
- CU COPPER
- DIA DIAMETER
- DISC DISCONNECT
- DISP DISPOSER
- DW DISHWASHER
- E.C. ELECTRICAL CONTRACTOR
- ECB ENCLOSED CIRCUIT BREAKER
- (E) EXISTING (USED AS SYMBOL DESIGNATION)
- EMT ELECTRICAL METALLIC TUBING
- EXTG EXISTING (USED AS ABBREVIATION IN TEXT)
- EV ELECTRIC VEHICLE (CHARGER)
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FLR FLOOR
- F.O.I.C. FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
- FSD FIRE SMOKE DAMPER
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- GND GROUND
- HWT HOT WATER TANK
- KCMIL THOUSANDS OF CIRCULAR MILS
- KVA 1000 VOLT AMPERES
- KW 1000 WATTS
- LCP LIGHTING CONTROL PANEL
- LT LIGHT
- LTS(LTG) LIGHTS (LIGHTING)
- LV LOW VOLTAGE
- MCB MAIN CIRCUIT BREAKER
- MECH MECHANICAL
- MLO MAIN LUGS ONLY
- MSC MULTI-SCENE CONTROLLER
- N3R NEMA 3R
- NIC NOT IN CONTRACT
- NREC NON-RESIDENTIAL ENERGY CODE
- OS OCCUPANCY SENSOR
- PC PHOTOCELL
- PNL PANELBOARD
- REC RECEPTACLE(S)
- REF REFRIGERATOR
- REQM REQUIREMENTS
- SCL SEATTLE CITY LIGHT
- SQ SQUARE
- SW SWITCH
- TBD TO BE DETERMINED
- TTB TELEPHONE TERMINAL BOARD
- TYP TYPICAL
- UC UNDER COUNTER
- U.O.N. UNLESS OTHERWISE NOTED
- UTIL UTILITY
- VA VOLT AMPERES
- VFD VARIABLE FREQUENCY DRIVE
- VS VACANCY SENSOR
- W WATTS
- WAP WIRELESS ACCESS POINT
- WC WATER COOLER
- W/O WITHOUT
- WP WEATHERPROOF
- XFMR TRANSFORMER

GENERAL NOTES:

- COORDINATE WITH ELEVATOR SUPPLIER FOR EXACT CONNECTION LOCATIONS FOR CAB FAN, LIGHTS, CONTROLS AND LOCATED DISCONNECTS AS REQUIRED.
- ALL ELECTRICAL EQUIPMENT TO BE PROVIDED WITH PROPER WORKING CLEARANCES PER NEC 110 REQUIREMENTS.
- COORDINATE ALL DEVICE LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL DETAILS AND OWNER PRIOR TO ROUGH-IN.

FLAG NOTES

- EXISTING ELEVATOR SHUNT TRIP CIRCUIT BREAKER DISCONNECTING MEANS. PROVIDED WITH DEDICATED CIRCUIT(S) FOR OPERATION OF SHUNT TRIP BREAKER. PROVIDE SIGNAGE PER WASHINGTON ADMINISTRATIVE CODE FOR OPERATION OF ELEVATOR SHUNT TRIP BREAKER. SHUNT TRIP 120V POWER SHALL BE DERIVED FROM ONE OF TWO METHODS:
 - A UL LISTED SHUNT TRIP MAINLINE ASSEMBLY WITH INTEGRAL 120V CONTROL TRANSFORMER AND VISUAL INDICATION OF SHUNT TRIP POWER.
 - A DEDICATED 120V ELEVATOR MACHINE ROOM PANEL CIRCUIT AND CORRESPONDING VISUAL INDICATION OF SHUNT TRIP POWER.
- NEW ELEVATOR CONTROLLER: POWER FOR CONTROLLER TO BE DERIVED FROM PANEL 'EDP' VIA EXISTING SHUNT TRIP DISCONNECT. CONTRACTOR TO CONFIRM DISCONNECT AND FUSING IS ADEQUATELY SIZED FOR NEW ELEVATOR BASED ON MANUFACTURER REQUIREMENTS AND APPROVED ELEVATOR SHOP DRAWINGS. CONTRACTOR TO ALSO PROVIDE FIRE ALARM, SPEAKER CIRCUIT, AND FIRE ALARM SYSTEM ELEVATOR RECALL SIGNAL AS REQUIRED.
- HEAT DETECTORS: PROVIDE AUXILIARY N.O. CONTACT IN HEAT DETECTORS LOCATED IN ELEVATOR HOISTWAY AND IN ELEVATOR MACHINE ROOM. THESE DETECTORS AND ALL EXISTING ELEVATOR LOBBIES SMOKE DETECTORS TO BE CONFIGURED TO ANNUNCIATE AS SEPARATE ZONE AND INITIATE ELEVATOR RECALL. CONTRACTOR TO CONFIRM LOBBY ZONING CONFIGURATION PRIOR TO BID.

ELEVATOR MACHINE ROOM HEAT DETECTOR SHALL BE TIED TO THE ELEVATOR SHUNT TRIP DISCONNECTING MEANS AND SHALL CUT POWER TO ELEVATOR DISCONNECT UPON ACTIVATION. HEAT DETECTORS SHALL BE 135° FIXED TEMPERATURE TYPE AND SHALL BE INSTALLED WITHIN 18" OF EACH SPRINKLER HEAD IN THE MACHINE ROOM AND HOISTWAY. MODIFY PROVISIONS AS REQUIRED TO MEET STATE ELEVATOR CODE.

- EXISTING 208V ELEVATOR PANEL. PROVIDE 20A BREAKERS FOR SHUNT TRIP CONTROLS, ELEVATOR MACHINE ROOM AND PIT LIGHT/RECEPTACLE. PROVIDE 20A LOCK OPEN BREAKERS FOR CONTROL OF ELEVATOR CAB LIGHTS AND RECEPTACLES, VENTILATION POWER PER NEC 620-53. LOCATE PER ELEVATOR INSTALLER.
- ELEVATOR PIT LIGHT/RECEPTACLE. LIGHTING IS DIAGRAMMATIC. CONTRACTOR TO PROVIDE VAPOR TIGHT LIGHT FIXTURE AND QUANTITY REQUIRED TO MEET ELEVATOR INSPECTOR FOOT CANDLE REQUIREMENTS. SEE PANEL 'EL 1' SCHEDULE FOR CIRCUIT(S).
- PROVIDE NON-GFCI RECEPTACLE FOR ELEVATOR SUMP PUMP.
- EXISTING JUNCTION BOX AND RACEWAY TO BE ABANDONED. ELEVATOR SHAFT DAMPER TO BE LOCKED IN THE CLOSED POSITION.
- CONTRACTOR TO CONFIRM EXISTING LIGHTING LEVELS AT EACH ELEVATOR LOBBY MEETS OR EXCEEDS L & I REQUIREMENTS.
- PROVIDE 120V RECEPTACLE FOR SUMP PUMP REMOTE ALARM.
- PROVIDE 120V RECEPTACLE FOR SUMP PUMP CONTROL PANEL POWER.
- PROVIDE AND INSTALL (2) 1" C FOR POWER AND CONTROL WIRING TO SUMP PUMP LOCATED IN ELEVATOR PIT.
- EXISTING J-BOX FOR 120V CONNECTION TO ELEVATOR HEAT DETECTOR, EXTEND RACEWAY TO PANEL 'EL1' AS REQUIRED.

KCHA
VANTAGE POINT
ELEVATOR

BID SET

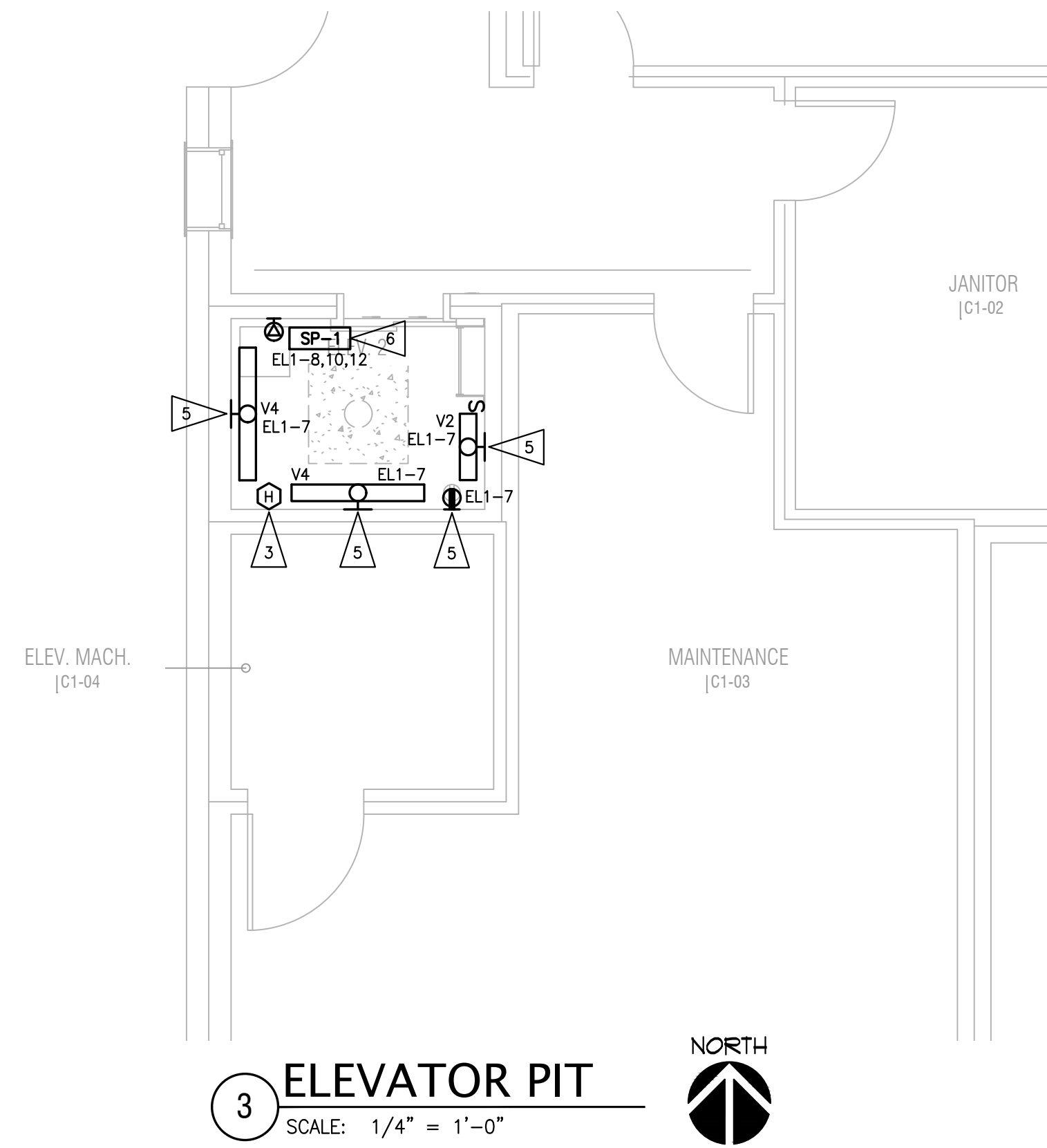
17901 105TH PL SE
RENTON, WA 98055

Drawn by: SDH
Checked: MSC/SDH
Date: 02/01/2024
Scale: As indicated

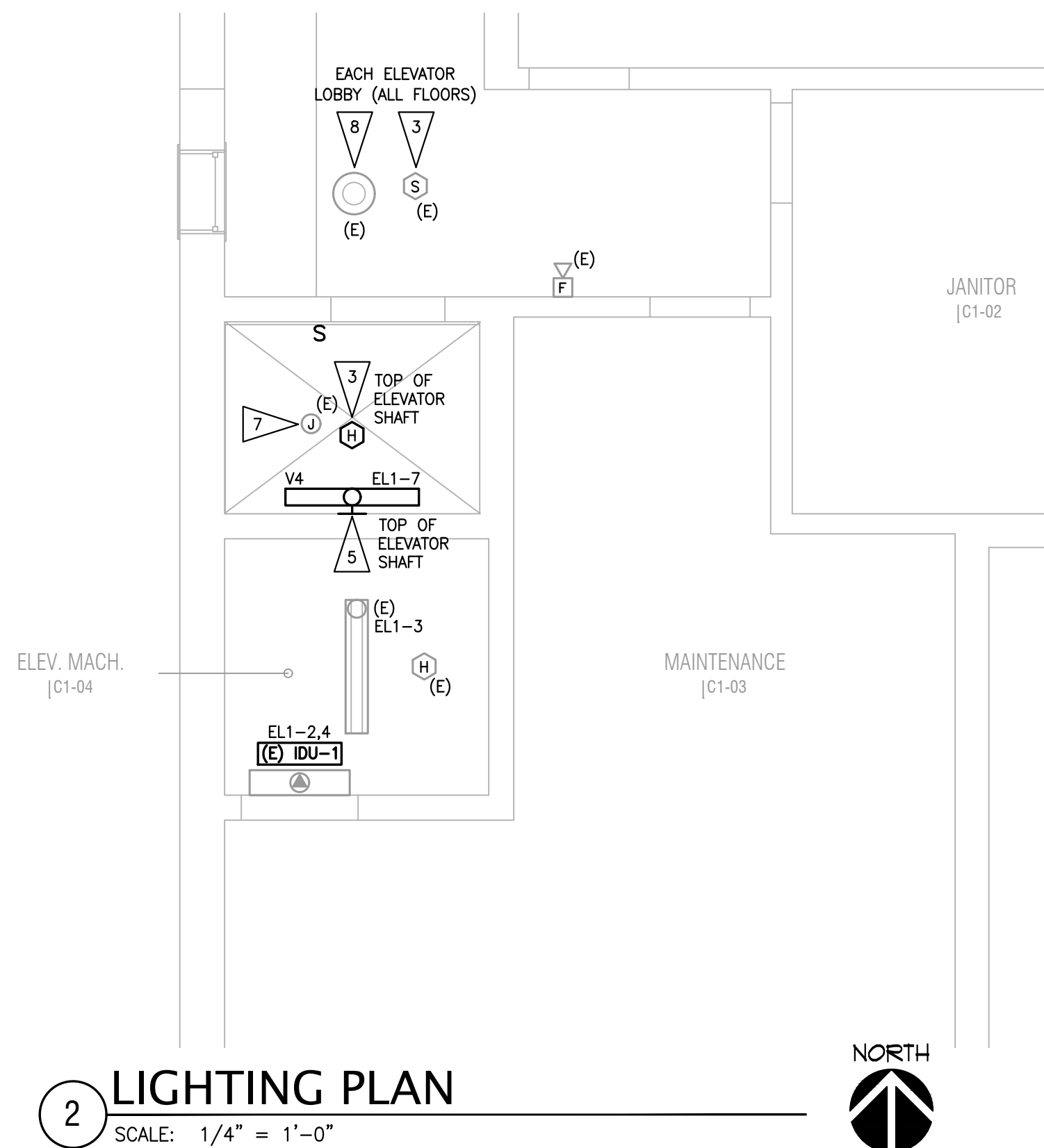
Revisions:
No. Date Remarks

POWER/
COMMUNICATIONS
AND LIGHTING
PLANS

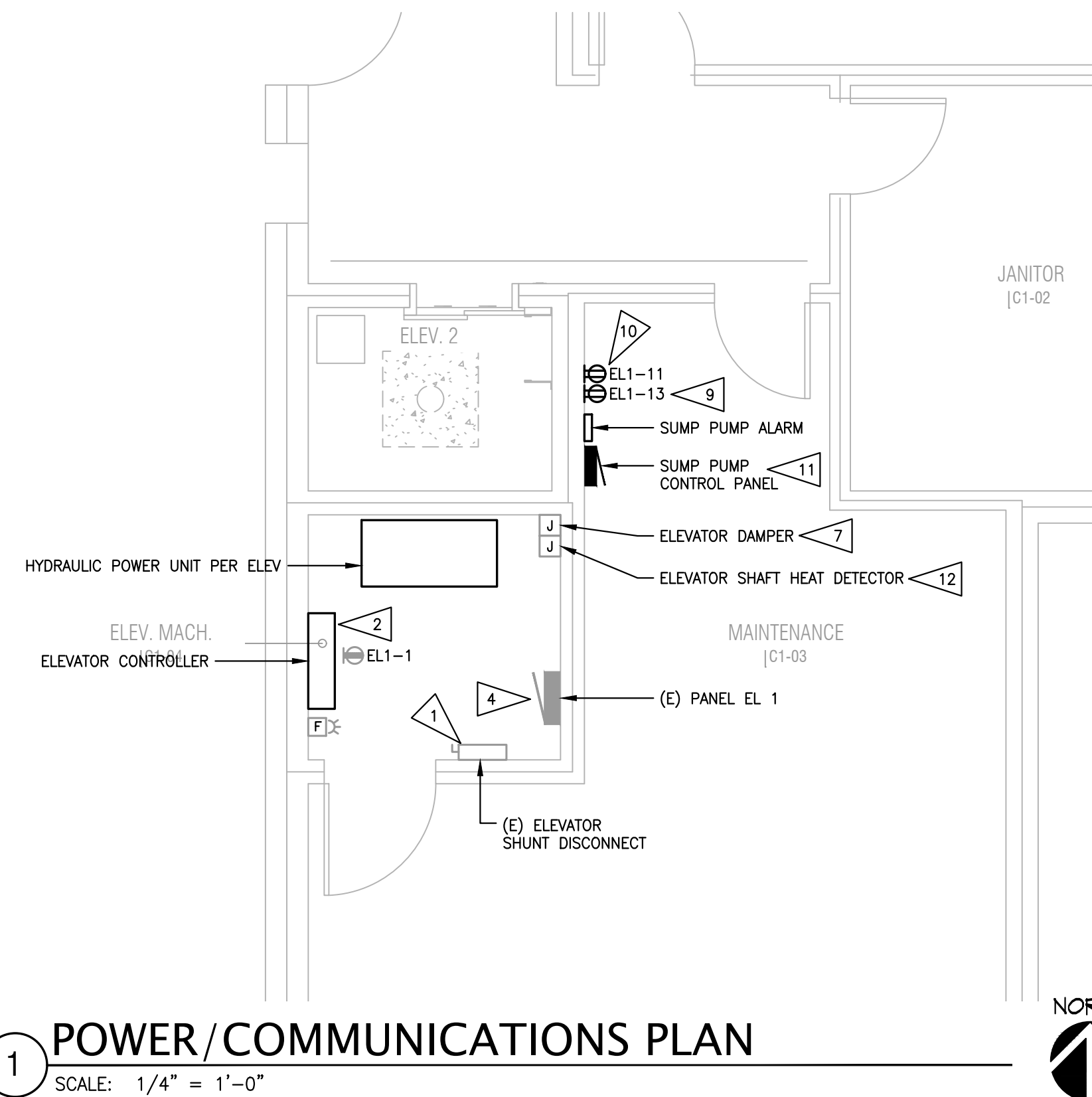
E2.1



3 ELEVATOR PIT
SCALE: 1/4" = 1'-0"



2 LIGHTING PLAN
SCALE: 1/4" = 1'-0"



1 POWER/COMMUNICATIONS PLAN
SCALE: 1/4" = 1'-0"

(EXISTING) PANEL 'EDP'										
PROJECT NAME:		KCHA VANTAGE POINT				PROJECT #:		23226		
LOCATION:		RENTON, WA				FED FROM:		UTILITY TRANSFORMER		
NOTE	CKT NO.	CIRCUIT NAME	CB SIZE	LOAD (KVA)					PANEL DESCRIPTION	
				B	H	M	L	K	O	TOTAL
1	1	(EXISTING) EL 4 SHUNT (ELEVATOR #4)	A 175 3			13.7				13.7
	3	---	B ---			13.7				13.7
	5	---	C ---			13.7				13.7
1	7	(EXISTING) EL 3 SHUNT (ELEVATOR #3)	A 250 3			21.1				21.1
	9	---	B ---			21.1				21.1
	11	---	C ---			21.1				21.1
1	13	(EXISTING) PANEL EL 4	A 60 3	0.4	2.9	0.1				0.6 4.0
	15	---	B ---	0.2	3.1	0.1				3.4
	17	---	C ---			0.6				1.0 1.6
1	19	(EXISTING) PANEL EL 3	A 60 3	0.4	2.9	0.1				0.6 4.0
	21	---	B ---	0.2	3.1	0.1				3.4
	23	---	C ---			0.6				1.0 1.6
	25	SPACE ONLY	A							
	27	SPACE ONLY	B							
	29	SPACE ONLY	C							
	31	SPACE ONLY	A							
	33	SPACE ONLY	B							
	35	SPACE ONLY	C							
	37	SPACE ONLY	A							
	39	SPACE ONLY	B							
	41	SPACE ONLY	C							
M.L.O. <input checked="" type="checkbox"/> 800A MAIN CB <input checked="" type="checkbox"/> FLUSH <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> ISO GND <input type="checkbox"/> FEED-THRU <input type="checkbox"/>										
LOAD SUMMARY										
2	2	EL 1 SHUNT (ELEVATOR #1)	A 175 3			13.7				13.7
	4	---	B ---			13.7				13.7
	6	---	C ---			13.7				13.7
1	8	(EXISTING) EL 2 SHUNT (ELEVATOR #2)	A 250 3			21.1				21.1
	10	---	B ---			21.1				21.1
	12	---	C ---			21.1				21.1
1	14	(EXISTING) PANEL EL 2	A 60 3	0.4	2.9	0.1				0.6 4.0
	16	---	B ---	0.2	3.1	0.1				3.4
	18	---	C ---			0.6				1.0 1.6
2	20	(EXISTING) PANEL EL 1	A 60 3	0.4	2.9	0.1				0.6 4.0
	22	---	B ---	0.2	3.1	0.1				3.4
	24	---	C ---			0.6				1.0 1.6
	26	SPACE ONLY	A							
	28	SPACE ONLY	B							
	30	SPACE ONLY	C							
	32	SPACE ONLY	A							
	34	SPACE ONLY	B							
	36	SPACE ONLY	C							
	38	SPACE ONLY	A							
	40	SPACE ONLY	B							
	42	SPACE ONLY	C							
CONNECTED LOAD KVA : 244.7 AMPS : 679.1										
DEMAND LOAD										
KVA : 260.7 AMPS : 723.7										
NOTES/REMARKS:										
1. EXISTING BREAKER WITH NO LOAD MODIFICATIONS										
2. EXISTING BREAKER WITH NEW LOAD										
BOLD - INDICATES NEW OR EXISTING WITH MODIFIED.										
DEMAND / DIVERSITY FACTORS										
LOAD DESCRIPTION DEMAND										
R RECEPTACLES - TO 10KVA 100% = 2.2										
REMAINING OVER 10KVA 50% =										
H HEATING 100% =										
M MOTORS 100% = 171.8										
LM LARGEST MOTOR 125% = 79.2										
L LIGHTING 125% = 1.1										
K KITCHEN 100% =										
O OTHER 100% = 6.4										

(EXISTING) PANEL 'EL1'										
PROJECT NAME:		KCHA VANTAGE POINT				PROJECT #:		23226		
LOCATION:		RENTON, WA				FED FROM:		EDP		
NOTE	CKT NO.	CIRCUIT NAME	CB SIZE	LOAD (KVA)					PANEL DESCRIPTION	
				B	H	M	L	K	O	TOTAL
1	1	REC - MACHINE ROOM GFCI	A 20 1	0.2						0.2
	3	LTG - MACHINE ROOM LTS	B 20 1				0.1			0.1
	5	SPARE	C 20 1							
2	7	REC LTG - ELEVATOR PIT	A 20 1	0.2			0.1			0.3
	9	REC LTG - ELEVATOR CAB LTG, FAN, REC	B 20 1	0.2			0.2	0.1		0.4
	11	SUMP PUMP CONTROL PANEL	C 20 1						0.5	0.5
2	13	SUMP PUMP REMOTE ALARM	A 20 1						0.5	0.5
	15	SPARE	B 20 1							
	17	SPARE	C 15 1							
	19	SPARE	A 15 1							
	21	SPACE ONLY	B							
	23	SPACE ONLY	C							
	25	SPACE ONLY	A							
	27	SPACE ONLY	B							
	29	SPACE ONLY	C							
	31	SPACE ONLY	A							
	33	SPACE ONLY	B							
	35	SPACE ONLY	C							
	37	SPACE ONLY	A							
	39	SPACE ONLY	B							
	41	SPACE ONLY	C							
M.L.O. <input checked="" type="checkbox"/> 800A MAIN CB <input checked="" type="checkbox"/> FLUSH <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> ISO GND <input type="checkbox"/> FEED-THRU <input type="checkbox"/>										
LOAD SUMMARY										
1	2	AHUS-1 (OUTDOOR & INDOOR UNIT)	A 20 2			2.3				2.3
	4	---	B ---			2.3				2.3
2	6	HEAT DETECTOR	C 20 1					0.5	0.5	1.0
3	8	SP-1 (ELEV PIT SUMP PUMP)	A 15 3			0.6				0.6
	10	---	B ---			0.6				0.6
	12	---	C ---			0.6				0.6
2	14	SHUNT TRIP CONTROLS	A 20 1					0.1	0.1	0.2
	16	SPARE	B 20 1							
	18	SPARE	C 20 1							
	20	SPARE	A 15 1							
	22	SPACE ONLY	B							
	24	SPACE ONLY	C							
	26	SPACE ONLY	A							
	28	SPACE ONLY	B							
	30	SPACE ONLY	C							
	32	SPACE ONLY	A							
	34	SPACE ONLY	B							
	36	SPACE ONLY	C							
	38	SPACE ONLY	A							
	40	SPACE ONLY	B							
	42	SPACE ONLY	C							
CONNECTED LOAD KVA : 9.0 AMPS : 24.9										
DEMAND LOAD										
KVA : 10.2 AMPS : 28.2										
NOTES/REMARKS:										
1. EXISTING BREAKER WITH NO LOAD MODIFICATIONS										
2. EXISTING BREAKER WITH NEW LOAD										
3. PROVIDE NEW BREAKERS AS INDICATED										
BOLD - INDICATES NEW OR EXISTING WITH MODIFIED.										
DEMAND / DIVERSITY FACTORS										
LOAD DESCRIPTION DEMAND										
R RECEPTACLES - TO 10KVA 100% = 0.5										
REMAINING OVER 10KVA 50% =										
H HEATING 100% =										
M MOTORS 100% = 2.0										
LM LARGEST MOTOR 125% = 5.8										
L LIGHTING 125% = 0.3										
K KITCHEN 100% =										
O OTHER 100% = 1.6										

(EXISTING) PANELS - EL2, EL3, EL4										
PROJECT NAME:		KCHA VANTAGE POINT				PROJECT #:		23226		
LOCATION:		RENTON, WA				FED FROM:		EDP		
NOTE	CKT NO.	CIRCUIT NAME	CB SIZE	LOAD (KVA)					PANEL DESCRIPTION	
				B	H	M	L	K	O	TOTAL
1	1	REC LTG - ELEVATOR CAB LTG, FAN, REC	A 20 1	0.2						0.2
	3	MACHINE ROOM GFI	B 20 1				0.1			0.1
	5	AHU (OUTDOOR & INDOOR UNIT)	A 20 2			2.3				2.3
	7	---	B ---			2.3				2.3
	9	---	C ---			2.3				2.3
	11	SPARE	B 20 1							
	13	SPARE	C 20 1							
	15	SPARE	A 20 1							
	17	SPARE	B 20 1							
	19	SPARE	C 15 1							
	21	SPACE ONLY	A 15 1							
	23	SPACE ONLY	B							
	25	SPACE ONLY	C							
	27	REC - MACHINE ROOM GFCI	B							
	29	LTG - MACHINE ROOM LTS	C							
	31	ELEVATOR DAMPER	A							
	33	REC LTG - ELEVATOR PIT	B							
	35	REC LTG - ELEVATOR CAB LTG, FAN, REC	C							
	37	SPACE ONLY	A							
	39	SPACE ONLY	B							
	41	SPACE ONLY	C							
M.L.O. <input checked="" type="checkbox"/> 800A MAIN CB <input checked="" type="checkbox"/> FLUSH <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> ISO GND <input type="checkbox"/> FEED-THRU <input type="checkbox"/>										
LOAD SUMMARY										
2	2	PWR/LTG ELEVATOR PIT	A 20 1	0.2			0.1			0.3
	4	MACHINE ROOM LIGHTS	B 20 1						0.1	0.1
	6	TOP OF SHAFT DAMPER	C 20 1				0.6			0.6
	8	(ELEV PIT SUMP PUMP)	A 15 3			0.6				0.6
	10	---	B ---			0.6				0.6
	12	---	C ---			0.6				0.6
	14	SHUNT TRIP CONTROLS	A 20 1						0.1	0.1
	16	SUMP PUMP CONTROL/ALARM	B 20 1						0.5	0.5
	18	SPARE	C 20 1							
	20	SPARE	A 15 1							
	22	SPACE ONLY	B							
	24	SPACE ONLY	C							
	26	SPACE ONLY	A							
	28	SPACE ONLY	B							
	30	SPACE ONLY	C							
	32	SPACE ONLY	A							
	34	SPACE ONLY	B							
	36	SPACE ONLY	C							
	38	SPACE ONLY	A							
	40	SPACE ONLY	B							
	42	SPACE ONLY	C							



GENERAL NOTES

STANDARDS
ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

DESIGN CRITERIA

THE STRUCTURAL SCOPE OF WORK WAS LIMITED TO PROVIDING CONNECTION PLATES AND ATTACHMENTS TO THE EXISTING STRUCTURE FOR ELEVATOR GUIDERAIL BRACKETS, PROVIDING HSS GUIDERAIL SUPPORT STRUCTURE AT THE UPPER FLOOR, AND MODIFYING THE EXISTING ELEVATOR PIT SLAB TO ACCOMMODATE A NEW HYDRAULIC JACK FOR THE ELEVATOR. ALL NEW CONNECTIONS AND STRUCTURE WAS DESIGNED SOLELY FOR ELEVATOR EQUIPMENT FORCES DETERMINED BY OTHERS. SEISMIC CRITERIA GIVEN HEREIN ARE FOR REFERENCE.

SEISMIC:
SEISMIC IMPORTANCE FACTOR, I_e = 1.0
RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = II
SPECTRAL RESPONSE ACCELERATIONS S_s = 1.396 & S₁ = 0.475
SITE CLASS PER TABLE 20.3-1 =
DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 0.931 & S_{D1} = 0.371

CONCRETE

CAST-IN-PLACE CONCRETE

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. ALL CONCRETE MIXES SHALL BE NORMAL WEIGHT, UNLESS NOTED OTHERWISE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT, OR ASTM C595 - TYPE II PORTLAND LIMESTONE CEMENT, UNLESS NOTED OTHERWISE.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

ITEM	DESIGN f _c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
FOUNDATIONS - UNO	3000	0.50	--	57 OR 67	

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ----- 3"
EXPOSED TO WEATHER OR EARTH ----- 2"
TIES ON BEAMS AND COLUMNS ----- 1-1/2"
WALLS AND SLABS NOT EXPOSED TO WEATHER --- 3/4"

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLES SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY - NO HAMMER TOOLS).

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO BID, ALONG WITH CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER (LICENSED IN THE STATE OF THE PROJECT) DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:
- ADHESIVE ANCHORS: HILTI HIT-HY 200 V3 (ICC-ESR-4868), HILTI HIT-RE 500 V3 (ICC-ESR-3814), DEWALT PURE 110+ (ICC-ESR-3298), OR SIMPSON SET-3G (ICC-ESR-4057), OR PRE-APPROVED EQUAL.
*CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.
*CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.
*HOLE SHALL BY HAMMER-DRILLED ONLY.
*DO NOT INSTALL IN WATER-FILLED HOLES.
*INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANCHORS SHALL ALSO BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
- EXPANSION ANCHORS: KWIKBOLT T22 (ICC ESR-4266) BY HILTI, INC. OR PRE-APPROVED EQUAL.
- SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC. OR PRE-APPROVED EQUAL.

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JULY 7, 2016, THE AISC CODE OF STANDARD PRACTICE, JUNE 15, 2016 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JULY 12, 2016.

MATERIAL PROPERTIES

OTHER SHAPES AND PLATES: ASTM A36 (F_y = 36 KSI) TYP. U.N.O.; ASTM A572 (F_y = 50 KSI) WHERE INDICATED

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500 GRADE C (F_y = 50 KSI) ROUND - ASTM A500 GRADE C (F_y = 46 KSI)

WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

GRAVITY FRAME

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
FILLET	70 KSI	----

WELDED CONNECTIONS INSPECTION:

- ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.

GENERAL REQUIREMENTS

FINISH: STRUCTURAL STEEL SHALL BE UNPAINTED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE PAINTED, ALL AREAS COMPRISING THE FAYING SURFACES OF BOLTED CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL COMPLY WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

CARPENTRY:

FRAMING LUMBER: STANDARDS. EACH PIECE SHALL BEAR THE GRADE TRADEMARK OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB), WESTERN WOOD PRODUCTS ASSOCIATION (WWPA), OR OTHER AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) TO GRADE UNDER ALSC CERTIFIED GRADING RULES.

SPECIES AND GRADE (BASE DESIGN VALUE)

- 6x BEAMS AND HEADERS. "DOUG FIR-LARCH" NO. 1 (F_b=1350 PSI, F_v=170 PSI)
- 2x TO 4x JOISTS, PURLINS AND HEADERS. "DOUG FIR-LARCH" NO. 2 (F_b=900 PSI, F_v=180 PSI) OR "HEM-FIR" NO. 1 (F_b=975 PSI, F_v=150 PSI)

GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER IBC TABLE 2304.10.1 OR MORE, AS OTHERWISE SHOWN. STAGGER ALL NAILING TO PREVENT SPLITTING OF WOOD MEMBERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED WITH THE EXCEPTION OF INTERIOR CONCRETE TOPPINGS ON WOOD FLOOR SYSTEMS. HOLES AND CUTS IN 3x OR 4x PLATES SHOULD BE TREATED WITH A 9% SOLUTION OF COPPER NAPHTHENATE. BOLT HOLES IN WOOD MEMBERS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE CUT WASHERS WHERE BOLT HEADS, NUTS AND LAG SCREW HEADS BEAR ON WOOD. PROVIDE A MINIMUM 3"x3"x0.229" PLATE WASHER ON ALL ANCHOR BOLTS WHICH CONNECT MUD SILLS TO FOUNDATION. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY IBC SECTIONS 2308.4.2.4, 2308.5.9, 2308.5.10 AND 2308.7.4 OR AS RESTRICTED BY PLANS OR DETAILS, OR AS APPROVED PRIOR TO INSTALLATION. REFER TO **PRESERVATIVE TREATED WOOD REQUIREMENTS** IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

FRAMING CONNECTORS: SHALL CONFORM TO CURRENT EVALUATION REPORT AND BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA., OR PRE-APPROVED EQUAL. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS OR BOLTS PER MANUFACTURER, EXCEPT AS NOTED OTHERWISE. PROVIDE LEAD HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD MEMBERS. REFER TO **PRESERVATIVE TREATED WOOD REQUIREMENTS** IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

	STRUCTURAL ENGR.	BLDG. DEPT.
1. CONCRETE MIX DESIGNS	X	X
2. REINFORCING STEEL SHOP DRAWINGS	X	
11. MISCELLANEOUS STEEL	X	X
17. CONTRACTOR'S STATEMENT OF RESPONSIBILITY	X	X

KCHA
VANTAGE POINT
ELEVATOR

PERMIT SET

17901 105TH PL SE
RENTON, WA 98055

Drawn by: KDK
Checked: TPP
Date: 02/02/2024
Scale: 1/4" = 1'-0"

Revisions:
No. Date Remarks

GENERAL
NOTES
S1.0

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

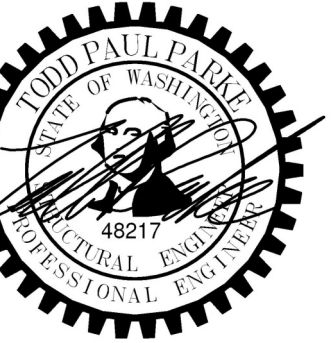
STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES	
STEEL CONSTRUCTION	INSPECTION OF WELDING			SPECIAL INSPECTIONS IN THIS SECTION ARE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1	
	E. SINGLE-PASS FILLET WELDS ≤ 5/16"		X			
CONCRETE	REINFORCING STEEL AND PLACEMENT		X	SPECIAL INSPECTIONS NOT REQUIRED FOR THE FOLLOWING CONDITIONS:	ACI 318: CH 20, 25.2, 25.3, 26.6-1 TO 26.6-3, IBC 1908.4	
	ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE		X	NON-STRUCTURAL SLAB ON GRADE	ACI 318: 17.8.2 AISC 360 SECTION N7	
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS INSTALLED IN ANY DIRECTION AND ADHESIVE ANCHORS INSTALLED DOWNWARD)			X	PERIODIC INSPECTION TO INCLUDE A QUANTITY OF 10% WITH A MINIMUM OF (5) ANCHORS INSPECTED PER INSTALLER ON A DAILY BASIS.	ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (ADHESIVE ANCHORS INSTALLED HORIZONTAL OR UPWARDLY INCLINED)	X				ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	VERIFY USE OF REQUIRED DESIGN MIX			X		ACI 318, CH 19
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X				ASTM C172, C31 ACI 318: 26.4, 26.12 IBC 1908.10
	MATERIAL VERIFICATION OF REINFORCEMENT STEEL FOR ASTM A615 REINFORCING			X	MANUFACTURER SHALL PROVIDE MILL TEST REPORTS. CONTINUOUS INSPECTION FOR ALL WELDS GREATER THAN 5/16" FILLET. PERIODIC INSPECTION FOR FILLET WELD 5/16" AND SMALLER	ACI 318: 26.6.4 AWS D1.4 IBC 1705.3.1
TESTING OF MATERIALS			X		IBC 1705.3.2	

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- » PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- » REVIEW OF TESTING AND INSPECTION REPORTS.
- » REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.



KCHA
VANTAGE POINT
ELEVATOR

PERMIT SET

17901 105TH PL SE
RENTON, WA 98055

Drawn by: KDK
Checked: TPP
Date: 02/02/2024
Scale: 1/4" = 1'-0"

Revisions:
No. Date Remarks

GENERAL
NOTES
S1.1