ELECTRICAL SYMBOL LEGEND

HT AFF	SYMBOL	DESCRIPTION
AS NOTED	D	SURFACE LIGHT (TYPE DENOTED)
	R	RECESSED LIGHT (TYPE DENOTED)
AS NOTED		POLE MOUNTED LIGHT (TYPE DENOTED)
	G	SURFACE LINEAR LIGHT (TYPE DENOTED)
P1	P2	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)
	H	RECESSED LINEAR LIGHT (TYPE DENOTED)
	ST1	STRIP LIGHT (TYPE DENOTED)
AS NOTED	T1 T1 TR1	TRACK AND TRACK LIGHT (TYPES DENOTED)
12"*	X X	EXIT SIGN (TYPE DENOTED)
48"	$	SINGLE POLE WALL SW.
48"	$2	2-POLE SINGLE THROW WALL SW.
48"	$3	3-WAY WALL SW.
48"	$4	4-WAY WALL SW.
48"	$D	DIMMER WALL SWITCH
48"	$OS	OCCUPANCY SENSOR WALL SWITCH
48"	$VS	VACANCY SENSOR WALL SWITCH
48"	$VSD	DIMMING VACANCY SENSOR WALL SWITCH
48"	$M	MOTOR HORSEPOWER RATED SWITCH
48"		START/STOP PUSH BUTTON STATION
48"		PUSH BUTTON
18"		DUPLEX RECEPT.
18"		FOURPLEX RECEPT.
		FLOOR RECEPT. (DUPLEX SHOWN)

HT AFF	SYMBOL	DESCRIPTION
18"		MULTIOUTLET ASSEMBLY (TYPE DENOTED)
84"	A	CLOCK (TYPE DENOTED)
		LIGHTNING PROTECTION AIR TERMINAL
		GROUND ROD (PLAN VIEW)
		GROUND CONNECTION - EXOTHERMIC WELD
AS NOTED		SPECIAL RECEPT. OR CONN. (TYPE DENOTED)
		SPECIAL CONNECTION (TYPE DENOTED)
AS NOTED	J	JUNCTION BOX
	PB	PULL BOX
72"*		POWER OR DISTRIBUTION PANEL
72"*		SPECIAL CABINET (TYPE DENOTED)
		TRANSFORMER (TYPE DENOTED)
	SF-1	MOTOR (SEE SCHEDULE)
72"*		MANUAL MOTOR STARTER
72"*		MAG. MOTOR STARTER OR CONTACTOR
72"*		COMB. MOTOR STARTER (NON-FUSED)
72"*		COMB. MOTOR STARTER (FUSED)
72"*		SAFETY DISC. SW. (NON-FUSED)
72"*		SAFETY DISC. SW. (FUSED)
	VFD	VARIABLE FREQUENCY DRIVE
72"*		ENCLOSED CIRCUIT BREAKER
	OS	OCCUPANCY SENSOR - TYPE DENOTED
AS NOTED	PE	PHOTOCELL
PER SCHED		UNIT HEATER (TYPE DENOTED)
PER SCHED		WALL HEATER (TYPE DENOTED)
PER SCHED	D1	HAND OR HAIR DRYER (TYPE DENOTED)
		SOLENOID VALVE

HT AFF	SYMBOL	DESCRIPTION
		CONDUIT CONCEALED IN WALL OR OVERHEAD
		CONDUIT CONCEALED BELOW FLOOR OR UNDERGROUND
		CONDUIT EXPOSED
		CONDUIT TRANSITION UP
		CONDUIT TRANSITION DOWN
		CONDUIT STUBBED OUT
	UE	UNDERGROUND ELECTRICAL
	UC	UNDERGROUND COMMUNICATIONS
		BRANCH CIRCUIT HOME RUN
		CABLE TRAY (TYPE DENOTED)
		CONDUIT SLEEVE (SIZE DENOTED)
48"****	W	WALL TELEPHONE OUTLET (TYPE DENOTED)
18"		INFORMATION OUTLET (TYPE DENOTED)
18"		TELEVISION OUTLET
	MSP	MULTIPLE SERVICE FLR OUTLET (TYPE DENOTED)
	WAP	WIRELESS ACCESS POINT
84"		BELL
84"	S	SPEAKER (WALL OR CEILING MT.)
	1	KEYED NOTE (SEE SCHEDULE)

HT AFF	SYMBOL	DESCRIPTION
96"**	F	FIRE ALARM BELL
96"**	F 110cd	FIRE ALARM STROBE (CANDELAS)
96"**	F 110cd	FIRE ALARM SPEAKER W/STROBE (CANDELAS)
72"**	FAAP	FIRE ALARM REMOTE ANNUNCIATOR
72"**	FACP	FIRE ALARM CONTROL PANEL
8"*****	D	SMOKE DETECTOR (TYPE DENOTED)
	H	HEAT DETECTOR (TYPE & TEMP. DENOTED)
	2	DUCT SMOKE DETECTOR (TYPE DENOTED)
48"****	F	F.A. PULL STATION (TYPE DENOTED)
	F	FIRE PROTECTION SPRINKLER ELECTRIC BELL
		SPRINKLER FLOW SWITCH
		SPRINKLER VALVE TAMPER SWITCH
AD1		ELECTRIC STRIKE
		DOOR CONTACTS
48"****	CR	CARD READER
AS NOTED		CCTV CAMERA
AS NOTED		CCTV CAMERA WITH PAN/TILT DRIVE

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 48" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 48". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 48".

* DISTANCE ABOVE TOP OF DOOR FRAME ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE *** DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT **** DISTANCE BELOW CEILING ***** DISTANCE TO BOTTOM OF DEVICE

GENERAL ELECTRICAL NOTES

A. ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.

B. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED.

C. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.

D. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

E. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON DRAWINGS.

G. TV OUTLETS, TELEPHONE OUTLETS, DATA OUTLETS SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, EXTENDED TO NEAREST CABLE TRAY. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.

SPECIFIC CODE NOTES

FIRE PROTECTION REQUIREMENTS

A. PENETRATIONS IN WALL REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
   1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRESTOPPED.
   2. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
   3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

B. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)
A	AMPERE
AC	ABOVE COUNTER OR AIR CONDITIONER
ACLG	ABOVE CEILING
ADO	AUTOMATIC DOOR OPENER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMPL	AMPLIFIER
ANNUN	ANNUNCIATOR
APPROX	APPROXIMATELY
AQ-STAT	AQUASTAT
ARCH	ARCHITECT, ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BD	BOARD
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
COMB	COMBINATION
CMPR	COMPRESSOR
CNN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CIRCULATING PUMP
CRT	CATHODE-RAY TUBE
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
DCP	DOMESTIC WATER CIRCULATING PUMP
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DPR	DAMPER
DS	SAFETY DISCONNECT SWITCH
DT	DOUBLE THROW
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRIC PNEUMATIC
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FU	FUSE
FUDS	FUSED SAFETY DISCONNECT SWITCH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
GYP BD	GYPSUM BOARD
HOA	HANDS-OFF-AUTOMATIC SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWP	HYDRONIC WATER PUMP
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
IW	INTERLOCK WITH
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LOC	LOCATE OR LOCATION
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
MAX	MAXIMUM
MAG.S	MAGNETIC STARTER
M/C	MOMENTARY CONTACT
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISTRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MFS	MAIN FUSED DISCONNECT SWITCH
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MOA	MULTIOUTLET ASSEMBLY
MSP	MOTOR STARTER PANELBOARD
MSBD	MAIN SWITCHBOARD
MT	MOUNT
MT.C	EMPTY CONDUIT
MTS	MANUAL TRANSFER SWITCH
MTR	MOTOR, MOTORIZED
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOADS
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PE	PNEUMATIC ELECTRIC
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PROJ	PROJECTION
PRV	POWER ROOF VENTILATOR
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QUAN	QUANTITY
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RSC	RIGID STEEL CONDUIT
RTU	ROOF TOP UNIT
SC	SURFACE CONDUIT
SEC	SECONDARY
SHT	SHEET
SIM	SIMILAR
S/N	SOLID NEUTRAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
SR	SURFACE RACEWAY
SS	STAINLESS STEEL
SSW	SELECTOR SWITCH
S/S	STOP/START PUSHBUTTONS
STA	STATION
STD	STANDARD
SURF	SURFACE MOUNTED
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
TEL	TELEPHONE
TEL/DATA	TELEPHONE/DATA
TERM	TERMINAL
TL	TWIST LOCK
TR	TAMPER RESISTANT
T-STAT	THERMOSTAT
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TVTC	TELEVISION TERMINAL CABINET
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
UV	UNIT VENTILATOR OR ULTRAVIOLET
V	VOLT
VA	VOLT-AMPERES
VDT	VIDEO DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT
W/	WITH
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XFR	TRANSFER
∠	ANGLE
@	AT
Δ	DELTA
' L	FEET
" L	INCHES
#	NUMBER
Ø	PHASE
C	CENTER LINE
P	PLATE

ELECTRICAL SYMBOL NOTES

A / 12b — THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

EXAMPLE 1: LIGHTING FIXTURE TYPE "A" IS CONNECTED TO CIRCUIT 12 AND CONTROLLED BY SWITCH "b".

K$E / 14 — EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTION OF EGRESS PATH ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 14.

$d — THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".

D600$e — WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 600 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "e". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED.

14-20R / 1,3,5 — SPECIAL OUTLETS CONNECTIONS. OUTLET NEMA CONFIGURATION INDICATED. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: SPECIAL OUTLET (14-20R) 3 PHASE CONNECTION TO CIRCUITS 1, 3, 5.

SF-1 / 2,4,6 — MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: MOTOR SF-1; 3 PHASE CONNECTION TO CIRCUITS 2, 4, 6.

7.9 / H1 — ELECTRIC HEATER CONNECTIONS. THE HEATER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "H". SEE THE HEATER SCHEDULE FOR ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE HEATER. EXAMPLE: ELECTRIC BASEBOARD HEATER TYPE "H1" CONNECTED TO CIRCUITS 7, 9.

T1 — TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".

LPN-102 — PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

1 — SPECIAL NOTE. SEE THE SPECIAL NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE HEXAGON.

CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 3 # 12 CONDUCTORS (PHASE, NEUTRAL AND EQUIPMENT GROUND) IN 3/4"CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE. WIRE AND CONDUIT HOME RUNS FOR 15 AND 20 AMPS SINGLE PHASE BRANCH CIRCUITS ARE NOT INDICATED ON LIGHTING AND POWER PLANS, BUT THESE BRANCH CIRCUITS SHALL BE INSTALLED USING 2#12 AWG, 1#12 (G), IN A 3/4" CONDUIT UNLESS OTHERWISE REQUIRED. ALL 15 AND 20 AMPS BRANCH CIRCUIT WIRING LONGER THAN 90 FEET SHALL BE WIRED USING #10 AWG MINIMUM. ALL LIGHTING AND POWER BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. AD1

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WTJX BROADCASTING FACILITY
Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

LEGEND AND ABBREVIATION

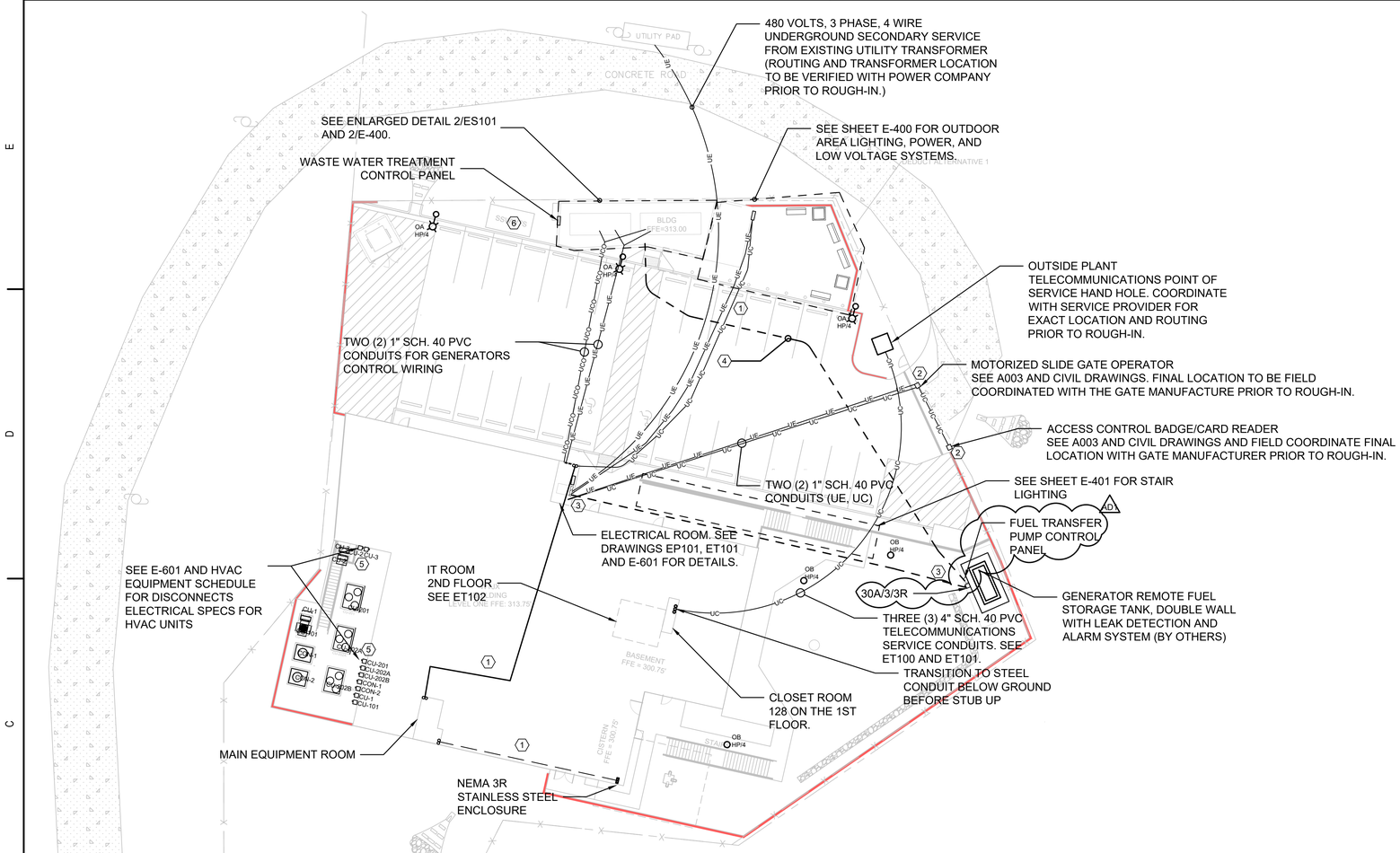
REVISIONS:		
NO.	Description	Date
AD1	Addendum 1	3/7/2025

DRAWN BY:	TF
CHECKED BY:	KA
DATE:	April 26, 2024

NOVUS JOB NUMBER
201

SHEET NUMBER
E-001

CONSTRUCTION DRAWINGS

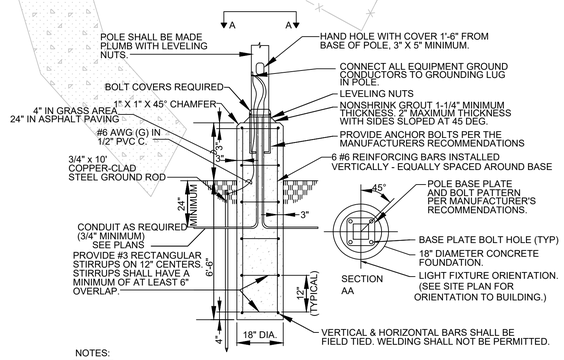


ELECTRICAL SITE PLAN

1 / ES101 — SCALE: 1" = 20'-0"

NOTES:

1. ALL UNDERGROUND POWER, CONTROLS AND COMMUNICATIONS SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUITS IN SAND-ENCASED DUCT BANK. REFER TO TYPICAL SAND-ENCASED DUCK BANK CONSTRUCTION ON SHEET E-503.

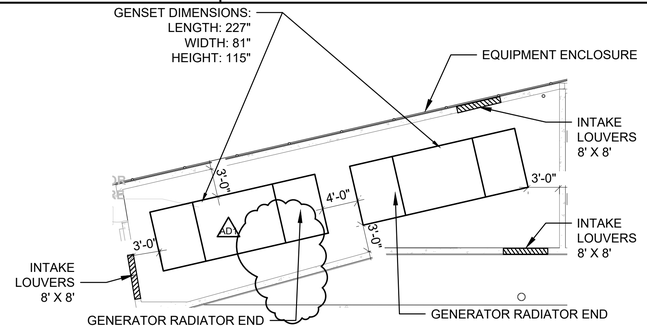


NOTES:

1. 3500 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 RE-BARS.
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
3. FOUNDATION EXCAVATION SHALL BE BY 24" AUGAR IN UNDISTURBED OR PROPERLY COMPACTED FILL.
4. MINIMUM ALLOWABLE SOIL BEARING PRESSURE 3000 PSF. NOTIFY ENGINEER IF BEARING PRESSURE IS LESS.
5. AIR ENTRAINMENT: 4 TO 6%.

POLE BASE DETAIL

3 / ES101 — SCALE: N.T.S.



NOTE: GENSETS ARE HOUSED IN NEMA 3R, WEATHERPROOF, SOUND ATTENUATED ENCLOSURES WITH BASE MOUNTED, DOUBLE WALL FUEL STORAGE TANK (1000 GALLONS STORAGE CAPACITY)
BASIS OF DESIGN: CATERPILLAR INC.
BASE BID = N + 1
DEDUCT ALTERNATE = N ONLY

ENLARGED GENERATORS PLAN

2 / ES101 — SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16'

KEYNOTES:

1. PROVIDE TWO (2) 4" CONDUITS EACH FROM MAIN EQUIPMENT ROOM TO EVENT PATIO AND SOUTH EAST VERANDA FOR FUTURE BROADCASTING CABLING REQUIREMENTS AS MARKED. RUN SCHEDULE 40 PVC CONDUITS UNDERGROUND AND RIGID GALVANIZES STEEL ABOVE GROUND AND INSIDE THE BUILDING. TERMINATE CONDUITS 24" BELOW CEILINGS IN MAIN EQUIPMENT ROOM, STUB UP UNDERGROUND CONDUITS 48" AFF, PROVIDE PULL STRING, CAP/TAG CONDUITS AT BOTH ENDS, AND TERMINATE IN A NEMA 3R STAINLESS STEEL ENCLOSURE.
2. COMMERCIAL DC VEHICULAR SLIDE GATE OPERATOR, 120/240V, 1.5 HP WITH RETRO REFLECTIVE PHOTO EYE, RESISTIVE EDGE AND BADGE/CARD READER ACCESS CONTROL SYSTEM, EQUAL TO LIFTMASTER MODEL #HDSL24 UL CLASS II. PROVIDE 3#10 AWG, 1#12 (G) IN A 1" SCHEDULE 40 PVC CONDUIT TO SUPPLY POWER TO THE GATE OPERATOR FROM LP PANEL. GROUND METAL GATE TO GATE POST USING BONDING JUMPER AND GATE POST TO METAL FENCE WITH #8 AWG BARE COPPER CONDUCTOR ON EACH SIDE OF OPENING.
3. PROVIDE 3#10 AWG, 1#10 (G), 1" SCHEDULE 40 PVC UNDERGROUND CONDUIT FROM MP PANEL TO REMOTE STORAGE TANK FUEL TRANSFER PUMP DISCONNECT SWITCH AND CONTROL PANEL LOCATION FOR FUEL TRANSFER PUMP CIRCUIT WIRING. TERMINATE WIRING AT A NEMA 3R DISCONNECT SWITCH ON EXTERIOR RETAINING WALL 4' AFG. COORDINATE CONDUIT ROUTING WITH THE REMOTE FUEL TANK STRUCTURE PRIOR TO ROUGH-IN.
4. PROVIDE ONE (1) 1" SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH PULL WIRE FROM EACH GENERATOR CONTROL PANEL LOCATION TO THE REMOTE FUEL STORAGE TANK FUEL TRANSFER PUMP CONTROLLER LOCATION FOR FUTURE CONTROL CIRCUIT WIRING. CAP AND TAG CONDUITS AT BOTH ENDS. COORDINATE CONDUITS ROUTING WITH THE GENERATORS AND THE REMOTE FUEL STORAGE TANK STRUCTURE PRIOR TO ROUGH-IN.
5. PROVIDE 3' WORKING SPACE (CLEARANCE) FOR ALL LOCAL DISCONNECT SWITCHES.
6. FOR SSWWTS ELECTRICAL REQUIREMENTS, SEE PANELBOARD SCHEDULES ON SHEET E-602.

LIGHT FIXTURE SCHEDULE - EXTERIOR

SYMBOL	LABEL	MANUFACTUER	CATALOG NUMBER	VOLTAGE	# OF LAMPS/INPUT WATTAGE	LAMP	DESCRIPTION
	OA	LITHONIA LTG	DSX1 LED P2 35K 80CRI T3M MVOLT RPA HS DDBXD DSXRPA DDBXD	277V	-/67.79W	LED	AREA LIGHT LED POLE MTD. AT 25'
	OB	LITHONIA LTG	RADPT LED P3 35K SYM MVOLT RADPT25 DDBXD	277V	-/54W	LED	AREA LIGHT POST MTD. AT 16'
	OA POLE	LITHONIA LTG	RSS 25 5B DM19AS DDBXD PLDT8	-	-/-	-	25' ROUND POLE
	OB POLE	LITHONIA LTG	RSS 16 4-5B T25 DDBXD	-	-/-	-	16' ROUND POLE

LEGEND:

——UC——	UNDERGROUND COMMUNICATION LINE, SIZE AS INDICATED
——UE——	UNDERGROUND POWER LINE, SEE SHEET E-601 FEEDER SCHEDULE
———	GALVANIZED RIGID STEEL CONDUIT
——UCO——	UNDERGROUND CONTROL CONDUIT, SIZE AS INDICATED

NOTICE TO BIDDERS:

REDUNDANT GENERATOR SYSTEM IS NOT INCLUDED IN THE BASE BID AND SHALL BE PRICED AS A BID ALTERNATE ITEM REDUNDANT GENERATORS INCLUDE GENERATOR NO. 2, UNDERGROUND FEEDER AND CONDUIT, AUTOMATIC TRANSFER SWITCH (ATS) NUMBER 2, AND FEEDER CONNECTING TWO ATS's TOGETHER. CONNECT GENERATOR NUMBER ONE FEEDER TO ATS NUMBER ONE IF BID ALTERNATE IS NOT EXERCISED.

NORTH

0' 20' 40'

SCALE: 1"=20'

This plan may have been reduced in size. Verify before scaling dimensions

springline architects — A NOVUS ARCHITECTS Company

GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS

WTJX BROADCASTING FACILITY

Haypiece Hill, Parcels 158A and 158 Rem
Submarine base, St. Thomas USVI

ELECTRICAL SITE PLAN

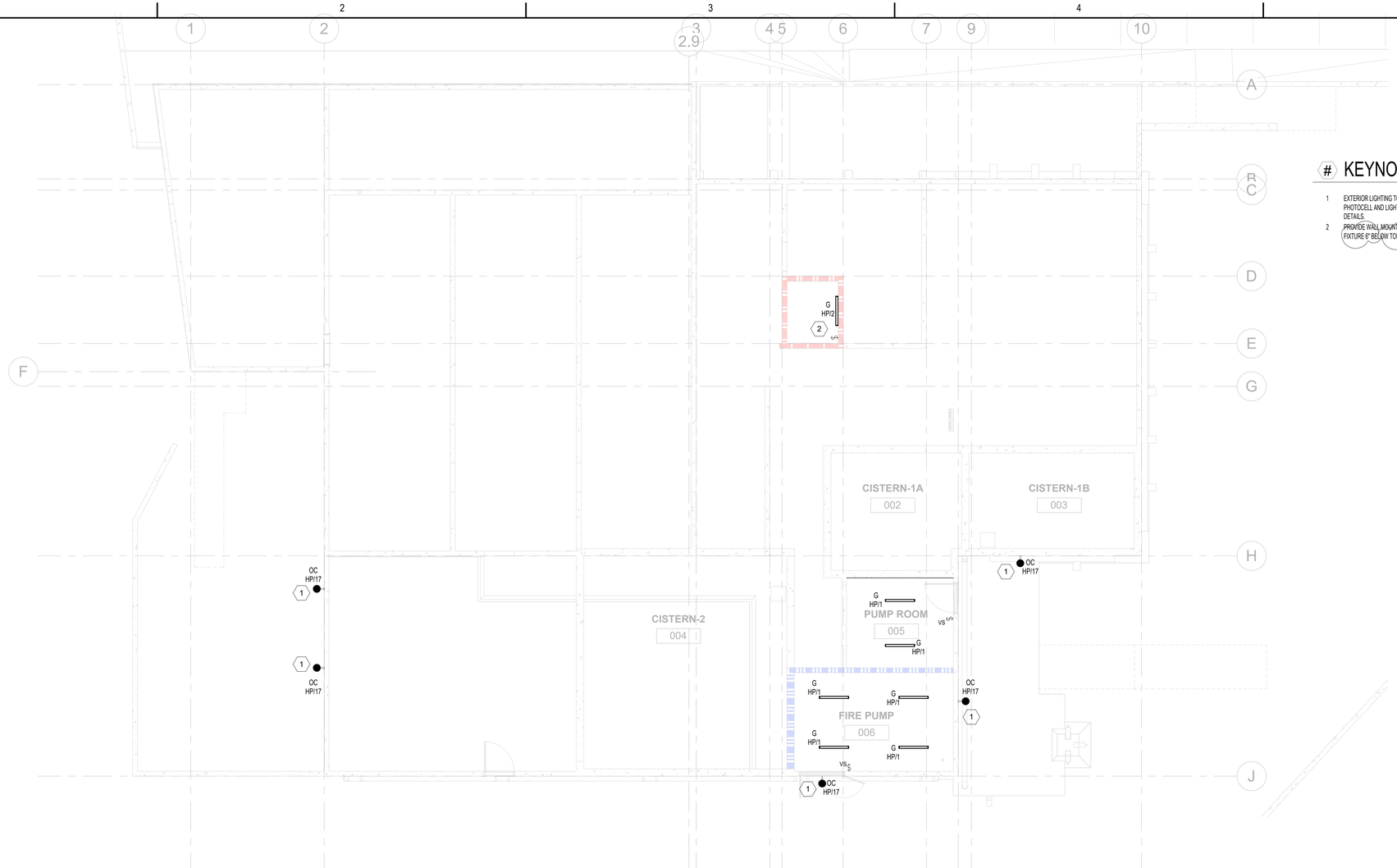
REVISIONS:		
No.	Description	Date
AD1	Addendum 1	3/7/2025

DRAWN BY:	TF
CHECKED BY:	KA
DATE:	April 26, 2024

NOVUS JOB NUMBER

SHEET NUMBER
ES101

CONSTRUCTION DRAWINGS



PLAN NORTH

1 / EL100

BASEMENT FLOOR - LIGHTING PLAN

1/8" = 1'-0"

0 2' 4' 8' 16'

KEYNOTES

1 EXTERIOR LIGHTING TO BE INSTALLED AT 8'-0" ABOVE WALKING SURFACE. LIGHTS WILL BE CONTROLLED BY PHOTOCELL AND LIGHTING CONTACTORS. SEE EXTERIOR LIGHTING CONTROL DAIGRAM ON SHEET E-504 FOR DETAILS.

2 PROVIDE WALL MOUNTED SWITCH FOR THE ELEVATOR PIT LIGHT AT THE PIT ACCESS DOOR. WALL MOUNT FIXTURE 6" BELOW TOP OF THE ELEVATOR PIT.

AD1

LIGHT FIXTURE SCHEDULE - BASEMENT

Type Mark	Description	Lens Louver	Mounting	Lamp	Voltage	Apparent Load	Basis of Design MFR	Color Temp (K)	Finish	Catalog Number
G	STRIP LIGHT W/WIREGAURD	ACRYLIC	SUSPENDED AT 10' AFF	LED	277 V	47 VA	LITHONIA LTG	3500 K	WHITE	CLX L48 7000LM SEF FDL WD MVOLT GZ10 35K 80CRI WH WGCLX48WH
OC	EXTERIOR WALL PACK		WALL MOUNTED 8' AFF	LED	277 V	19 VA	LITHONIA LTG	3000 K	BRONZE	ARC1 LED P2 30K MVOLT E4WH DDBXD

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WTJX BROADCASTING FACILITY
Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

BASEMENT FLOOR LIGHTING PLAN

REVISIONS:

NO.	Description	Date
AD1	Addendum 1	3/7/2025

DRAWN BY: TF
CHECKED BY: KA
DATE: April 26, 2024

NOVUS JOB NUMBER
201

SHEET NUMBER
EL100

CONSTRUCTION DRAWINGS

PLAN NORTH

1 EP104

ROOF PLAN- ELECTRICAL

1/8" = 1'-0"

0 2' 4' 8' 16'

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WTJX BROADCASTING FACILITY

Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

ROOF PLAN POWER PLAN

REVISIONS:

NO.	Description	Date
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NOVUS JOB NUMBER
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SHEET NUMBER
EP104

CONSTRUCTION DRAWINGS

SUMP PUMP SCHEDULE											
Mark	Phases	Voltage	Amps	Fan HP (KW)	Heat KW	Feeder & Conduit Size	Disconnect Amps/Poles	NEMA Enclosure	Panel	Circuit Number	Remarks
SP-1	1	208 V	8.0 A	1	-	2#12 AWG, 1#12 (G), 3/4" C.	30A/2P	1	LP	67,69	
SP-2	1	208 V	8.0 A	1	-	2#12 AWG, 1#12 (G), 3/4" C.	30A/2P	1	LP	72,74	

FIRE PROTECTION PUMP SCHEDULE											
Mark	Phases	Voltage	Amps	Fan HP (KW)	Heat KW	Feeder & Conduit Size	Disconnect Amps/Poles	NEMA Enclosure	Panel	Circuit Number	Remarks
FP-101	3	480 V	96.0 A	75		SEE E-601.	SEE E-601.	SEE E-601.	DP	5	

ELECTRIC WATER HEATER SCHEDULE											
Mark	Phases	Voltage	Amps	Fan HP (KW)	Heat KW	Feeder & Conduit Size	Disconnect Amps/Poles	NEMA Enclosure	Panel	Circuit Number	Remarks
EWH-1	3	480 V	7.2 A		6	3#12 AWG, 1#12 (G), 3/4" C.	30A/3P	1	MP	1,3,5	
EWH-2	3	480 V	5.4 A		4.5	3#12 AWG, 1#12 (G), 3/4" C.	30A/3P	1	MP	7,9,11	
IWH-1	1	208 V	16.8 A		3.5	2#10 AWG, 1#10 (G), 3/4" C.	30A/2P	1	LPA	2,4	

VARIABLE VOLUME UNIT SCHEDULE											
Mark	Phases	Voltage	Amps	Fan HP (KW)	Heat KW	Feeder & Conduit Size	Disconnect Amps/Poles	NEMA Enclosure	Panel	Circuit Number	Remarks
VAV-201	1	277 V	10.1 A	-	2.8	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	25	
VAV-202	1	277 V	7.6 A	-	2.1	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	27	
VAV-203	1	277 V	1.0 A	-	0.3	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	29	
VAV-204	1	277 V	5.0 A	-	1.4	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	29	
VAV-205	1	277 V	3.6 A	-	1.0	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	31	
VAV-206	1	277 V	2.9 A	-	0.8	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	33	
VAV-207	1	277 V	9.0 A	-	2.5	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	35	
VAV-208	1	277 V	3.6 A	-	1.0	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	37	
VAV-211	1	277 V	8.3 A	-	2.3	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	39	AD1
VAV-212	1	277 V	0.0 A	-	-			1	MP	39	
VAV-213	1	277 V	9.0 A	-	2.5	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	41	
VAV-214	1	277 V	9.0 A	-	2.5	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	2	
VAV-215	1	277 V	5.4 A	-	1.5	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	4	
VAV-216	1	277 V	9.4 A	-	2.6	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1			
VAV-217	1	277 V	9.4 A	-	2.6	2#12 AWG, 1#12 (G), 3/4" C.	20A/1P	1	MP	6	

INDOOR AIR HANDING UNITS SCHEDULE (AHUs)											
Mark	Phases	Voltage	Amps	Fan HP (KW)	Heat KW	Feeder & Conduit Size	Disconnect Amps/Poles	NEMA Enclosure	Panel	Circuit Number	Remarks
AHU-101	3	480 V	1.4 A	1.5	-	3#12, 1#12(G), 3/4" C.	30A/3P	1	MP	13,15,17	
AHU-201	3	480 V	6.7 A	7.5	-	SEE E-601.	SEE E-601.	SEE E-601.	DP	7	
AHU-202	3	480 V	18.0 A	2 x 10.0	-	SEE E-601.	SEE E-601.	SEE E-601.	DP	8	

EXHAUST FAN SCHEDULE											
Mark	Phases	Voltage	Amps	Fan HP (KW)	Heat KW	Feeder & Conduit Size	Disconnect Amps/Poles	NEMA Enclosure	Panel	Circuit Number	Remarks
EF-1	1	120 V	1.6 A	1/4		2#12 AWG, 1#12 (G), 3/4" C.	$M	3R	LP	89	
EF-2	1	120 V	1.6 A	1/4		2#12 AWG, 1#12 (G), 3/4" C.	$M	1	LPA	20	
KEF-1	1	120 V	4.7 A	3/4		2#12 AWG, 1#12 (G), 3/4" C.	$M	3R	LP	89	

COMPUTER ROOM AIR CONDITIONERS (CRACs) & AIR COOLED CONDENSER (CONs) SCHEDULE											
Mark	Phases	Voltage	Amps	Fan HP (KW)	Heat KW	Feeder & Conduit Size	Disconnect Amps/Poles	NEMA Enclosure	Panel	Circuit Number	Remarks
CON-1	3	480 V	24.0 A	-	-	SEE E-601.	SEE E-601.	SEE E-601.	DP	15	
CON-2	3	480 V	24.0 A	-	-	SEE E-601.	SEE E-601.	SEE E-601.	DP	16	
CRAC-1	3	480 V	34.0 A	-	-	SEE E-601.	SEE E-601.	SEE E-601.	DP	13	
CRAC-2	3	480 V	34.0 A	-	-	SEE E-601.	SEE E-601.	SEE E-601.	DP	14	

SPLIT SYSTEM CONDENSING UNIT SCHEDULE (CUs)											
Mark	Phases	Voltage	Amps	Fan HP (KW)	Heat KW	Feeder & Conduit Size	Disconnect Amps/Poles	NEMA Enclosure	Panel	Circuit Number	Remarks
CU-1	1	208 V	11.0 A	1/3		2#12 AWG, 1#12 (G), 3/4" C.	30A/2P	3R	LP	90,92	OUTDOOR UNIT POWERS INDOOR UNIT (AC-1).
CU-2	1	208 V	11.0 A	1/3		2#12 AWG, 1#12 (G), 3/4" C.	30A/2P	3R	LP	86,88	OUTDOOR UNIT POWERS INDOOR UNIT (AC-2).
CU-3	1	208 V	11.0 A	1/3		2#12 AWG, 1#12 (G), 3/4" C.	30A/2P	3R	LP	85,87	OUTDOOR UNIT POWERS INDOOR UNIT (AC-3).
CU-101	3	480 V	8.3 A	1/5	-	3#12 AWG, 1#12 (G), 3/4" C.	30A/3P	3R	MP	19,21,23	
CU-201	3	480 V	38.0 A	1/5	-	SEE E-601.	SEE E-601.	SEE E-601.	DP	9	
CU-202A	3	480 V	38.0 A	(1) 1/4	-	SEE E-601.	SEE E-601.	SEE E-601.	DP	10	
CU-202B	3	480 V	38.0 A	(1) 1/4	-	SEE E-601.	SEE E-601.	SEE E-601.	DP	11	

MINI SPLIT AIR HANDLERS SCHEDULE (ACs)											
Mark	Phases	Voltage	Amps	Fan HP (KW)	Heat KW	Feeder & Conduit Size	Disconnect Amps/Poles	NEMA Enclosure	Panel	Circuit Number	Remarks
AC-1	1	208 V	1.0 A	-	-	2#12 AWG, 1#12 (G), 3/4" C.	30A/2P	1	LP	90,92	INDOOR UNIT POWERED BY OUTDOOR UNIT (CU-1).
AC-2	1	208 V	1.0 A	-	-	2#12 AWG, 1#12 (G), 3/4" C.	30A/2P	1	LP	86,88	INDOOR UNIT POWERED BY OUTDOOR UNIT (CU-2).
AC-3	1	208 V	1.0 A	-	-	2#12 AWG, 1#12 (G), 3/4" C.	30A/2P	1	LP	85,87	INDOOR UNIT POWERED BY OUTDOOR UNIT (CU-3).

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WTJX BROADCASTING FACILITY
Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

ELECTRICAL MECHANICAL CONNECTION SCHEDULES

REVISIONS:

NO.	Description	Date
AD1	Addendum 1	3/7/2025

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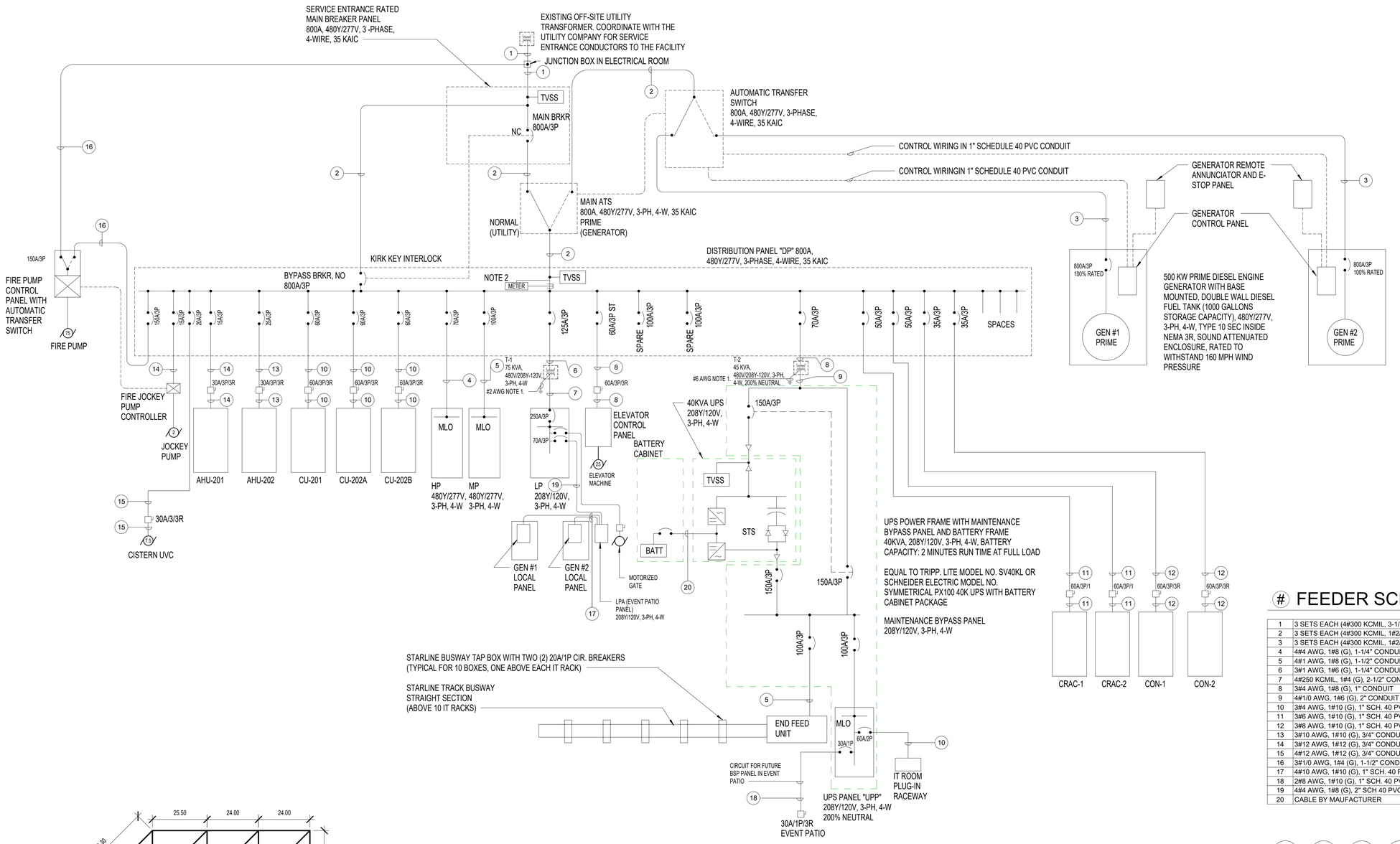
DATE: April 26, 2024

NOVUS JOB NUMBER
201

SHEET NUMBER
E-505

CONSTRUCTION DRAWINGS



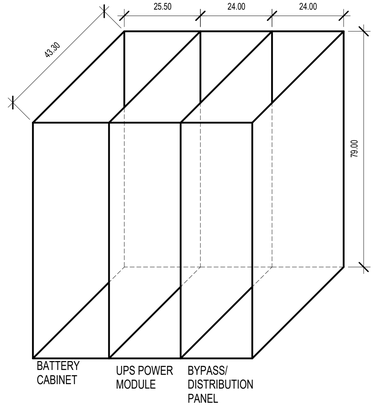
1 E-601

POWER DISTRIBUTION SINGLE LINE DIAGRAM

NOT TO SCALE

FEEDER SCHEDULE

1	3 SETS EACH (4#300 KCMIL, 3-1/2" SCHEDULE 40 PVC CONDUIT)
2	3 SETS EACH (4#300 KCMIL, 1#2/0 (G), 3" CONDUIT)
3	3 SETS EACH (4#300 KCMIL, 1#2/0 (G), 3-1/2" SCHEDULE 40 PVC CONDUIT)
4	4#4 AWG, 1#8 (G), 1-1/4" CONDUIT
5	4#1 AWG, 1#8 (G), 1-1/2" CONDUIT
6	3#1 AWG, 1#6 (G), 1-1/4" CONDUIT
7	4#250 KCMIL, 1#4 (G), 2-1/2" CONDUIT
8	3#4 AWG, 1#8 (G), 1" CONDUIT
9	4#1/0 AWG, 1#6 (G), 2" CONDUIT
10	3#4 AWG, 1#10 (G), 1" SCH. 40 PVC CONDUIT
11	3#6 AWG, 1#10 (G), 1" SCH. 40 PVC CONDUIT
12	3#8 AWG, 1#10 (G), 1" SCH. 40 PVC CONDUIT
13	3#10 AWG, 1#10 (G), 3/4" CONDUIT
14	3#12 AWG, 1#12 (G), 3/4" CONDUIT
15	4#12 AWG, 1#12 (G), 3/4" CONDUIT
16	3#1/0 AWG, 1#4 (G), 1-1/2" CONDUIT
17	4#10 AWG, 1#10 (G), 1" SCH. 40 PVC CONDUIT
18	2#8 AWG, 1#10 (G), 1" SCH. 40 PVC CONDUIT
19	4#4 AWG, 1#8 (G), 2" SCH 40 PVC CONDUIT
20	CABLE BY MAUFACTURER



2 E-601

UPS SYSTEM LINEUP

NOT TO SCALE

SHEET NOTES

1. CONNECT TRANSFORMER SECONDARY GROUND TO BUILDING GROUNDING ELECTRODE SYSTEM.
2. PROVIDE A MULTIFUNCTION DIGITAL METER WITH FUNCTIONS INCLUDING AMMETER, VOLTMETER, KWH, KWHD, KVA AND PULSE OUTPUT DRY CONTACT. METER WILL BE INTERFACED WITH THE BUILDING ENERGY MANAGEMENT SYSTEM VIA A COMMUNICATION DATA LINK.

NOTICE TO BIDDERS

1. REDUNDANT GENERATOR NUMBER 2 IS INCLUDED IN THE BASE BID AND SHALL BE PRICED AS A BID ALTERNATE ITEM #4. REDUNDANT GENERATOR INCLUDES GENERATOR NO. 2, UNDERGROUND FEEDER, CONDUIT, ASSOCIATED CONTROL WIRING, AUTOMATIC TRANSFER SWITCH NUMBER 2, ANNUNCIATION PANEL, E-STOP, AND FEEDER CONNECTING TWO ATS's TOGETHER. CONTRACTOR TO CONNECT GENERATOR NUMBER ONE FEEDER AND ASSOCIATED CONTROL WIRING DIRECTLY TO ATS NUMBER ONE IF BID ALTERNATE #4 IS EXERCISED. DEDUCT ALTERNATE #4.

AD1

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WTJX BROADCASTING FACILITY
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Submarine base, St. Thomas USVI

POWER DISTRIBUTION SYSTEM SINGLE LINE DIAGRAM

REVISIONS:

NO.	Description	Date
AD1	Addendum 1	3/7/2025

DRAWN BY: TF
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DATE: April 26, 2024

NOVUS JOB NUMBER
201

SHEET NUMBER
E-601

CONSTRUCTION DRAWINGS

SWITCHBOARD: DP

LOCATION: ELECT. RM 125
SUPPLY FROM: UTILITY PAD
ENCLOSURE: Type 1
MOUNTING: FLOOR
VOLTAGE: 480Y/277V
PHASES: 3
WIRES: 4
MAIN TYPE: MCB
MAIN AMPS: 800 A
MIN AIC RATING: 35 K
NEUTRAL RATING: 100.00%

CKT	DESCRIPTION	POLES	FRAME	TRIP	Load	NOTES
1	T-1	3	125 A	125 A	86841 VA	
2	T-2	3	100 A	70 A	28000 VA	
3	HP	3	100 A	70 A	16142 VA	
4	MP	3	100 A	100 A	50050 VA	
5	FP-1	3	200 A	150 A	79811 VA	
6	CISTERN UVC	3	100 A	20 A	9145 VA	
7	AHU-201	3	100 A	15 A	7000 VA	
8	AHU-202	3	100 A	25 A	14191 VA	
9	CU-201	3	100 A	60 A	35915 VA	
10	CU-202A	3	100 A	60 A	28590 VA	
11	CU-202B (REDUNDANT EQUIPMENT)	3	100 A	60 A	0 VA	
12	ELEVATOR	3	100 A	60 A	28266 VA	
13	CRAC-1	3	100 A	60 A	28898 VA	
14	CRAC-2 (REDUNDANT EQUIPMENT)	3	100 A	60 A	0 VA	
15	CON-1	3	100 A	40 A	23253 VA	
16	CON-2 (REDUNDANT EQUIPMENT)	3	100 A	40 A	0 VA	
17	SPARE	3	100 A	100 A	0 VA	
18	SPARE	3	100 A	100 A	0 VA	
19	SPACE	3	100 A	--	--	
20	SPACE	3	100 A	--	--	
21	SPACE	3	100 A	--	--	
22	SPACE	3	100 A	--	--	
				TOTAL CONNECTED LOAD:	436102 VA	
				TOTAL AMPS:	522 A	

PANEL TOTALS	
TOTAL CONNECTED LOAD:	436102 VA
TOTAL ESTIMATED DEMAND:	388843 VA
TOTAL CONNECTED CURRENT:	522 A
TOTAL ESTIMATED DEMAND CURRENT:	468 A

NOTES:

PANELBOARD: LPA

LOCATION: EVENT PATIO
SUPPLY FROM: LP
ENCLOSURE: 3R
MOUNTING: Surface
MAIN TYPE: MCB
VOLTAGE: 208Y/120V
PHASES: 3
WIRES: 4
BUS RATING: 100 A
MCB RATING: 70 A
MIN AIC RATING: 10000 A
NEUTRAL RATING: 100.00%
FEED THRU LUGS: NO

CKT	DESCRIPTION	AMPS	POLES	A		B		C		POLES	AMPS	DESCRIPTION	CKT
1	RCPT - RM 131, 132	20 A	1	360 VA	1750...					2	30 A	IWH-1	2
3	WATER FOUNTATION	20 A	1			360 VA	1750...						4
5	PWR - SINK	20 A	1					120 VA	500 VA	1	20 A	FUT. LEAK DETECTION CONTORL PANEL	6
7	LITES	20 A	1	119 VA	1400...					1	20 A	WW PUMP PF1/5	8
9	LITES	20 A	1			461 VA	1000...			1	20 A	WW S-240	10
11	WW PUMP PF1/1	20 A	1					1400...	1400 VA	1	20 A	WW TCOM	12
13	WW PUMP PF1/2	20 A	1	1400 VA	1167...					3	30 A	GENERATOR 2 PANEL	14
15	WW PUMP PF1/3	20 A	1			1400...	1167...						16
17	WW PUMP PF3	20 A	1					2100...	1167 VA				18
19				1167 VA	186 VA					1	20 A	EF-2	20
21	GENERATOR 1 PANEL	30 A	3			1167...	900 VA			1	20 A	SEPTIC TANK	22
23								1167...	0 VA	1	20 A	SPARE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
		TOTAL LOAD:		7519 VA		8048 VA		7809 VA					
		TOTAL AMPS:		63 A		67 A		65 A					

PANEL TOTALS	
TOTAL CONNECTED LOAD:	22325 VA
TOTAL ESTIMATED DEMAND:	16744 VA
TOTAL CONNECTED CURRENT:	65 A
TOTAL ESTIMATED DEMAND CURRENT:	47 A

NOTES:

PANELBOARD: UPP

LOCATION: MAIN EQUIP. RM 116
SUPPLY FROM: T-2
ENCLOSURE: NEMA 1
MOUNTING: FL MTD UPS INTEGRATED
MAIN TYPE: MLO
VOLTAGE: 208Y/120V
PHASES: 3
WIRES: 4
BUS RATING: 100 A
MCB RATING: N/A
MIN AIC RATING: 10K
NEUTRAL RATING: 100.00%
FEED THRU LUGS: NO

CKT	DESCRIPTION	AMPS	POLES	A		B		C		POLES	AMPS	DESCRIPTION	CKT
1	RCPT, L STUD 121 - MONITOR WALL	20 A	1	396 VA	974 VA					1	20 A	RCPT - TWO L5-20R - GARAGE	2
3	RCPT - RM 118, L STUDIO 121	20 A	1			900 VA	974 VA			1	20 A	RCPT - TWO L5-20R - GARAGE	4
5	RCPT, STAFF WORK-BULLPEN RM 110 - 111	20 A	1					1196...	1980 VA	1	20 A	RCPT - VIDEO CONTRL RM MONITOR WALL	6
7	RCPT - RM 111 - "ON AIR" LIGHTS	20 A	1	1297 VA	804 VA					1	20 A	RCPT - RM 122, 126	8
9	RCPT, SML STUDIO 114	20 A	1			905 VA	1332...			1	20 A	RCPT - VIDEO CONTROL RM 118	10
11	RCPT, VIDEO CONTROL RM 118	20 A	1					1332...	700 VA	1	20 A	PWR - RACK FIVE	12
13	PWR - RACK ONE	20 A	1	700 VA	700 VA					1	20 A	PWR - RACK FIVE	14
15	PWR - RACK ONE	20 A	1			700 VA	700 VA			1	20 A	PWR - RACK SIX	16
17	PWR - RACK TWO	20 A	1					700 VA	700 VA	1	20 A	PWR - RACK SIX	18
19	PWR - RACK TWO	20 A	1	700 VA	700 VA					1	20 A	PWR - RACK SEVEN	20
21	PWR - RACK THREE	20 A	1			700 VA	700 VA			1	20 A	PWR - RACK SEVEN	22
23	PWR - RACK THREE	20 A	1					700 VA	700 VA	1	20 A	PWR - RACK EIGHT	24
25	PWR - RACK FOUR	20 A	1	700 VA	700 VA					1	20 A	PWR - RACK EIGHT	26
27	PWR - RACK FOUR	20 A	1			700 VA	700 VA			1	20 A	PWR - RACK NINE	28
29	RCPT - SML CONTROL RM 115	20 A	1					1050...	700 VA	1	20 A	PWR - RACK NINE	30
31	TWO RCPT - BACK OF EAST BSP	20 A	1	966 VA	700 VA					1	20 A	PWR - RACK TEN	32
33	TWO RCPT - BACK OF WEST BSP	20 A	1			966 VA	700 VA			1	20 A	PWR - RACK TEN	34
35	TWO RCPT - BACK OF GARAGE BSP	20 A	1					966 VA	974 VA	1	20 A	RCPT - TWO L5-20R ON EAST WALL	36
37	TWO RCPT - BACK OF SMALL STUDIO BSP	20 A	1	966 VA	974 VA					1	20 A	RCPT - TWO L5-20R ON EAST WALL	38
39	RCPT - TWO L5-20R - SMALL STUDIO	20 A	1			974 VA	974 VA			1	20 A	RCPT - TWO L5-20R ON WEST WALL	40
41	RCPT - TWO L5-20R - SMALL STUDIO	20 A	1					974 VA	974 VA	1	20 A	RCPT - TWO L5-20R ON WEST WALL	42
43	RCPT - SML CONTROL 115	20 A	1	996 VA	1000...					2	60 A	IT ROOM PLUG-IN RACEWAY	44
45	RCPT - STAFF WORK-BULLPEN 110	20 A	1			1596...	1000...						46
47	RCPT - CONF. ROOM 106 85" TV/CONT	20 A	1					1597...	1000 VA	1	30 A	FUT. BSP IN EVENT PATIO	48
49	SPARE	20 A	1	0 VA	--					1	--	SPACE	50
51	SPARE	20 A	1			0 VA	--			1	--	SPACE	52
53	SPARE	20 A	1					0 VA	--	1	--	SPACE	54
		TOTAL LOAD:		13085 VA		14332 VA		16229 VA					
		TOTAL AMPS:		109 A		121 A		137 A					

PANEL TOTALS	
TOTAL CONNECTED LOAD:	44 kVA
TOTAL ESTIMATED DEMAND:	28 kVA
TOTAL CONNECTED CURRENT:	121 A
TOTAL ESTIMATED DEMAND CURRENT:	78 A

NOTES:

PANELBOARD: MP

LOCATION: ELECT. RM 125
SUPPLY FROM: DP
ENCLOSURE: Type 1
MOUNTING: Surface
MAIN TYPE: MLO
VOLTAGE: 480Y/277V
PHASES: 3
WIRES: 4
BUS RATING: 100 A
MCB RATING: N/A
MIN AIC RATING: 14,000 A
NEUTRAL RATING: 100.00%
FEED THRU LUGS: NO

CKT	DESCRIPTION	AMPS	POLES	A		B		C		POLES	AMPS	DESCRIPTION	CKT
1				2.0 kVA	2.5 kVA					1	20 A	VAV-214	2
3	EWH-1	20 A	3			2.0 kVA	2.5 kVA			1	20 A	VAV-215	4
5								2.0 kVA	2.6 kVA	1	20 A	VAV-217	6
7				1.5 kVA	0.0 kVA					1	20 A	SPARE	8
9	EWH-2	20 A	3			1.5 kVA	0.0 kVA			1	20 A	SPARE	10
11								1.5 kVA	0.0 kVA	1	20 A	SPARE	12
13				0.7 kVA	0.0 kVA					1	20 A	SPARE	14
15	AHU-101	20 A	3			0.7 kVA	2.1 kVA						16
17								0.7 kVA	2.1 kVA	3	20 A	FUTURE REMOTE FUEL STORAGE TANK FUEL TRANSFER PUMP	18
19				2.3 kVA	2.1 kVA								20
21	CU-101	15 A	3			2.3 kVA	0.0 kVA						22
23								2.3 kVA	0.0 kVA	3	30 A	SPARE	24
25	VAV-201	20 A	1	2.8 kVA	0.0 kVA								26
27	VAV-202	20 A	1			2.1 kVA	--			1	--	SPACE	28
29	VAV-203, VAV-204	20 A	1					1.7 kVA	--	1	--	SPACE	30
31	VAV-205	20 A	1	1.0 kVA	--					1	--	SPACE	32
33	VAV-206	20 A	1			0.8 kVA	--			1	--	SPACE	34
35	VAV-207	20 A	1					2.5 kVA	--	1	--	SPACE	36
37	VAV-208	20 A	1	1.0 kVA	--					1	--	SPACE	38
39	VAV-211, VAV-212 AD1	20 A	1			2.3 kVA	--			1	--	SPACE	40
41	VAV-213	20 A	1					2.5 kVA	--	1	--	SPACE	42
		TOTAL LOAD:		15.85 kVA		16.3 kVA		17.9 kVA					
		TOTAL AMPS:		57 A		59 A		65 A					

PANEL TOTALS	
TOTAL CONNECTED LOAD:	50050 VA
TOTAL ESTIMATED DEMAND:	50050 VA
TOTAL CONNECTED CURRENT:	60 A
TOTAL ESTIMATED DEMAND CURRENT:	60 A

NOTES:

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WTJX BROADCASTING FACILITY
Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

PANEL SCHEDULES

REVISIONS:

NO.	Description	Date
AD1	Addendum 1	3/7/2025

DRAWN BY: TF
CHECKED BY: KA
DATE: April 26, 2024
NOVUS JOB NUMBER
201

SHEET NUMBER
E-602

CONSTRUCTION DRAWINGS

PANELBOARD: HP

LOCATION: ELECT. RM 125 | **MAIN TYPE:** MLO | **BUS RATING:** 100 A | **FEED THRU LUGS:** NO
SUPPLY FROM: DP | **VOLTAGE:** 480Y/277V | **MCB RATING:** N/A
ENCLOSURE: Type 1 | **PHASES:** 3 | **MIN AIC RATING:** 14000 A
MOUNTING: Surface | **WIRES:** 4 | **NEUTRAL RATING:** 100.00%

CKT	DESCRIPTION	AMPS	POLES	A		B		C		POLES	AMPS	DESCRIPTION	CKT
1	LITES - RMS 005, 006	20 A	1	0.28...	0.05...					1	20 A	LITES - ELEVATOR PIT LIGHT	2
3	LITES - RMS 123 - 125	20 A	1			1.24...	0.37...			1	20 A	LITES - SITE LIGHTING	4
5	LITES - RMS 106-107	20 A	1					1.18...	0.00...	1	20 A	SPARE	6
7	LITES - RMS 104-110, CORR, 120, 122	20 A	1	0.82...	0.00...					1	20 A	SPARE	8
9	LITES - RMS 111-118, 126, 140	20 A	1			1.41...	0.00...			1	20 A	SPARE	10
11	LITES - RMS 203 - 215	20 A	1					0.77...	0.00...	1	20 A	SPARE	12
13	LITES - STAIRWELL, LOBBY,/ ELEV. LOBBY,...	20 A	1	1.28...	0.00...					1	20 A	SPARE	14
15	LITES - LARGE STUDIO 121	20 A	1			0.78...	--						16
17	LITES - OUTDOORS	20 A	1					0.17...	--	3	--	SPACE	18
19	LITES - OUTDOORS	20 A	1	1.41...	--								20
21	LITES - OUTDOORS	20 A	1			0.66...	--						22
23	LITES - VERANDA	20 A	1					0.14...	--	3	--	SPACE	24
25				0.48...	--								26
27	DOOR ELECTRIC OPERATOR	20 A	3			0.48...	--			1	--	SPACE	28
29								0.48...	--	1	--	SPACE	30
31				0.48...	--					1	--	SPACE	32
33	DOOR ELECTRIC OPERATOR	20 A	3			0.48...	--			1	--	SPACE	34
35								0.48...	--	1	--	SPACE	36
37				0.48...	--					1	--	SPACE	38
39	DOOR ELECTRIC OPERATOR	20 A	3			0.48...	--			1	--	SPACE	40
41								0.48...	--	1	--	SPACE	42
		TOTAL LOAD:		5.18 kVA		6 kVA		3.60 kVA					
		TOTAL AMPS:		20 A		22 A		13 A					

PANEL TOTALS	
TOTAL CONNECTED LOAD:	14.6 kVA
TOTAL ESTIMATED DEMAND:	17122 VA
TOTAL CONNECTED CURRENT:	18 A
TOTAL ESTIMATED DEMAND CURRENT:	21 A

NOTES:

PANELBOARD: LP

LOCATION: ELECT. RM 125 | **MAIN TYPE:** MCB | **BUS RATING:** 400 A | **THROUGH-FEED LUGS:** YES
SUPPLY FROM: T-1 | **VOLTAGE:** 208Y/120V | **MCB RATING:** 250 A
ENCLOSURE: Type 1 | **PHASES:** 3 | **MIN AIC RATING:** 10000 A
MOUNTING: Surface | **WIRES:** 4 | **NEUTRAL RATING:** 100.00%

CKT	DESCRIPTION	AMPS	POLES	A		B		C		POLES	AMPS	DESCRIPTION	CKT
1	RCPT STORAGE 006	20 A	1	360 VA	1080...					1	20 A	RCPT	2
3	RCPT PUMP ROOM 002, OUTSIDE	20 A	1			360 VA	1440...			1	20 A	VFR-500 PANELS	4
5	RCPT - OUTDOORS	20 A	2					520 VA	240 VA	1	20 A	UC REF. RM 106	6
7				520 VA	1159...					1	20 A	RCPT	8
9	RCPT GARAGE 123	20 A	1			1260...	900 VA			1	20 A	RCPT	10
11	WASHER - GARAGE 123	20 A	1					1200...	540 VA	1	20 A	WATER FOUNTATION	12
13	ELECTRIC CLOTHES DRYER - GARAGE 123	30 A	2	2500 VA	1080...					1	20 A	RCPT	14
15						2500...	540 VA			1	20 A	RCPT	16
17	ICE MACHINE - GARAGE 123	20 A	1					1200...	3000 VA	2	40 A	RANGE	18
19	RCPT - RM 118, OUTDOOR	20 A	1	900 VA	3000...								20
21	RCPT - RM 116, 117	20 A	1			1080...	720 VA			1	20 A	RCPT	22
23	RCPT - RM 114-116	20 A	1					1260...	360 VA	1	20 A	RCPT	24
25	UC REF. SMALL STUDIO 114	20 A	1	240 VA	1200...					1	20 A	REF/ RM 107	26
27	RCPT	20 A	1			1080...	1200...			1	20 A	MICROWAVE	28
29	RCPT COPIER	20 A	1					1200...	1260 VA	1	20 A	RCPT	30
31	RCPT	20 A	1	720 VA	720 VA					1	20 A	RCPT	32
33	RCPT	20 A	1			900 VA	1200...			1	20 A	RCPT COPIER RM 110	34
35	LPA	30 A	3					7519...	1080 VA	1	20 A	RCPT	36
37				8048 VA	540 VA					1	20 A	RCPT	38
39						7809...	720 VA			1	20 A	RCPT	40
41	RCPT	20 A	1					1080...	1380 VA	1	20 A	STORM SHUTTERS - FIRST FLOOR	42
43	RCPT COPIER COR. 201	20 A	1	1200 VA	1380...					1	20 A	STORM SHUTTERS - FIRST FLOOR	44
45	RCPT - CEO 204	20 A	1			940 VA	1380...			1	20 A	STORM SHUTTERS - FIRST FLOOR	46
47	RCPT - COR. 201 & ASST.205	20 A	1					1080...	1200 VA	1	20 A	RCPT COPIER RM 209	48
49	RCPT	20 A	1	1440 VA	828 VA					1	20 A	STORM SHUTTERS - FIRST FLOOR	50
51	RCPT	20 A	1			900 VA	1104...			1	20 A	STORM SHUTTERS - FIRST FLOOR	52
53	RCPT	20 A	1					1080...	1104 VA	1	20 A	STORM SHUTTERS - SECOND FLOOR	54
55	RCPT	20 A	1	900 VA	1104...					1	20 A	STORM SHUTTERS - SECOND FLOOR	56
57	RCPT	20 A	1			1080...	828 VA			1	20 A	STORM SHUTTERS - SECOND FLOOR	58
59	RCPT	20 A	1					540 VA	828 VA	1	20 A	STORM SHUTTERS - SECOND FLOOR	60
61	RCPT	20 A	1	540 VA	360 VA					1	20 A	QUAD BENEATH BSP - L STUD EAST WALL	62
63	RCPT	20 A	1			180 VA	360 VA			1	20 A	QUAD BENEATH BSP - L STUD WEST WALL	64
65	RCPT	20 A	1					420 VA	360 VA	1	20 A	QUAD BENEATH BSP - GARAGE	66
67	SP-1	20 A	2	832 VA	360 VA					1	20 A	QUAD BENEATH BSP - SMALL STUDIO	68
69						832 VA	2800...			1	30 A	VAN A/C RCPT - GARAGE	70
71	GATE OPERATOR	20 A	2					540 VA	832 VA	2	20 A	SP-2	72
73				540 VA	832 VA								74
75	BROADCAST LIGHTING RCPT	20 A	1			1400...	1400...			1	20 A	BROADCAST LIGHTING RCPT	76
77	BROADCAST LIGHTING RCPT	20 A	1					1400...	1400 VA	1	20 A	BROADCAST LIGHTING RCPT	78
79	BROADCAST LIGHTING RCPT	20 A	1	1400 VA	1760...					1	20 A	BROADCAST LIGHTING RCPT	80
81	BROADCAST LIGHTING RCPT	20 A	1			1400...	180 VA			1	20 A	DDC PANELS	82
83	BROADCAST LIGHTING RCPT	20 A	1					1400...	300 VA	1	20 A	BLACKOUT WINDOW SHADES	84
85	CU-1/AC-1	20 A	2	1406 VA	1316...					2	20 A	CU-2/AC-2	86
87						1406...	1316...						88
89	EF-1/KEF-1	20 A	1					756 VA	1229 VA	2	20 A	CU-3/AC-3	90
91	RCPT	20 A	1	360 VA	1229...								92
93	SINK POWER	20 A	1			180 VA	80 VA			1	20 A	STORM SHUTTER CONTACTOR	94
95	CLEAN AGENT FIRE SUPP. PANEL	20 A	1					200 VA	0 VA	1	20 A	SPARE	96
97	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	98
99	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	100
101	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	102
		TOTAL LOAD:		30603 VA		28827 VA		27711 VA					
		TOTAL AMPS:		255 A		228 A		215 A					

SECTION 1 / SECTION 2

PANEL TOTALS	
TOTAL CONNECTED LOAD:	86841 VA
TOTAL ESTIMATED DEMAND:	63882 VA
TOTAL CONNECTED CURRENT:	319 A
TOTAL ESTIMATED DEMAND CURRENT:	257 A

NOTES:

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WTJX BROADCASTING FACILITY

Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

PANEL SCHEDULES

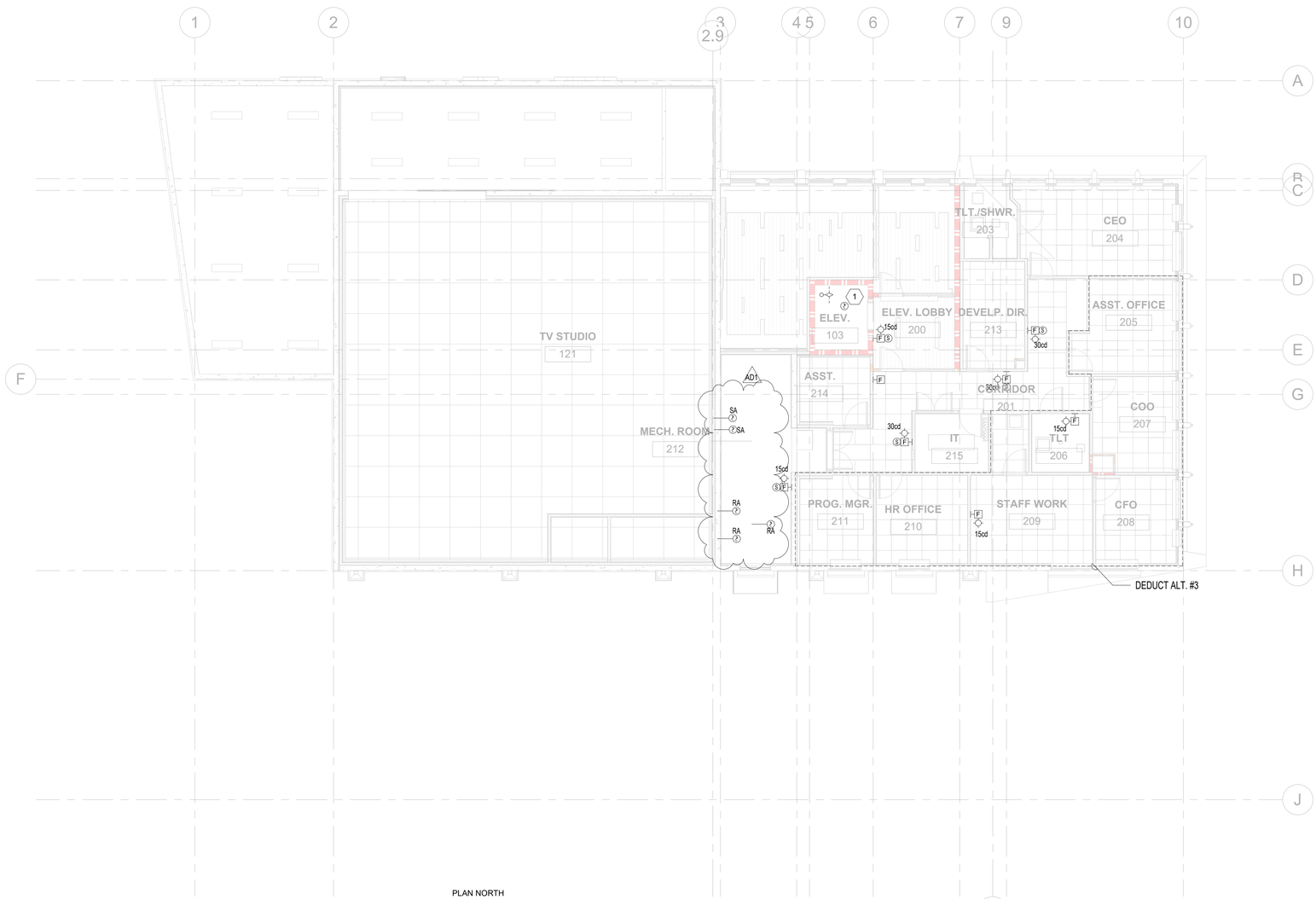
REVISIONS:

NO.	Description	Date
AD1	Addendum 1	3/7/2025

DRAWN BY: TF
CHECKED BY: KA
DATE: April 26, 2024
NOVUS JOB NUMBER: 201

SHEET NUMBER: E-603

CONSTRUCTION DRAWINGS



PLAN NORTH

1 FA102

SECOND FLOOR - FIRE ALARM PLAN

1/8" = 1'-0"

0 2' 4' 8' 16'

FIRE ALARM LEGEND

- FIRE ALARM/MASS NOTIFICATION SIGNAL SPEAKER/VISIBLE TYPE, 80" AFF TO THE BOTTOM OF THE LENS. DEVICE SHALL BE WHITE WITH CLEAR LENS AND MARKED WITH THE WORD "ALERT" IN RED. SPEAKER SHALL ADJUSTABLE TAP WATTAGES UP TO 2W.
- FIRE ALARM PULL STATION WALL MOUNTED WITH OPERABLE PART OF THE DEVICE AT 45" AFF.
- FIRE ALARM/MASS NOTIFICATION SIGNAL, VISIBLE TYPE, 80" AFF TO THE BOTTOM OF THE LENS. DEVICE SHALL BE WITH WITH CLEAR LENS AND MARKED WITH THE WORD "ALERT" IN RED.
- FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED
- FACP — COMBINATION FIRE ALARM AND MASS NOTIFICATION CONTROL PANEL WITH MIRCOPHOE. SURFACE WALL MOUNTED.
- FAAP — FIRE ALARM ANNUCIATOR PANEL
- DUCT SMOKE DETECTOR

KEYNOTES

1 INSTALL A SMOKE DETECTOR AT THE TOP OF ELEVATOR HOIST WAY. ACTIVATION OF ANY ELEVATOR MACHINE ROOM, HOIST WAY, OR LOBBY SMOKE DETECTOR MUST ACTIVATE THE FACILITY FIRE ALARM SYSTEM AND SENT AFFECTED ELEVATOR(S) TO THE DESIGNATED FLOOR. PROVIDE A WATER FLOW SWITCH IN THE SPRINKLER LINE SUPPLYING THE TOP OF HOIST WAY. ACTUATION OF THE WATER FLOW SWITCH MUST REMOVE POWER TO THE ELEVATOR BY DIRECT CONNECTION FROM THE WATER FLOW SWITCH (I.E. DPDT SWITCH) TO THE SHUNT TRIP BREAKER.

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WTJX BROADCASTING FACILITY

Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

SECOND FLOOR FIRE ALARM PLAN

REVISIONS:

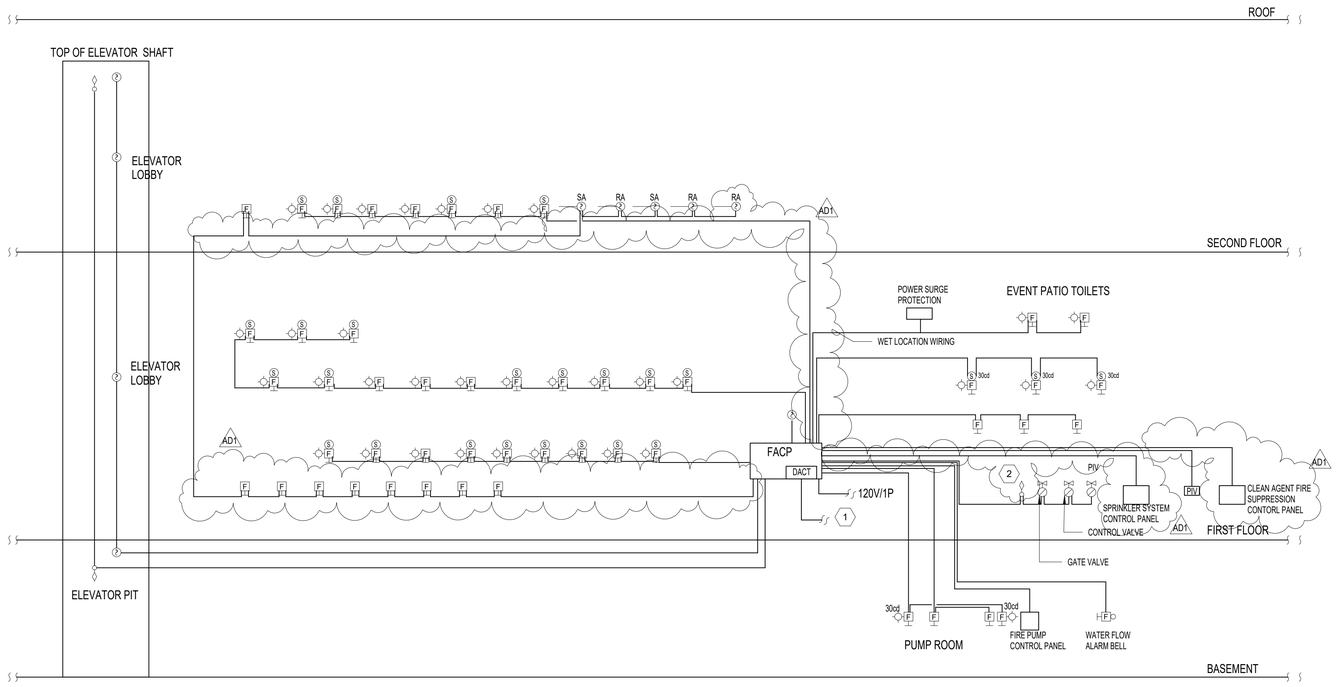
NO.	Description	Date
AD1	Addendum 1	3/7/2025

DRAWN BY:	TF
CHECKED BY:	KA
DATE:	April 26, 2024

NOVUS JOB NUMBER
201

SHEET NUMBER
FA102

CONSTRUCTION DRAWINGS



1 FA601 WTJX RADIO STATION FIRE ALARM RISER DIAGRAM

NOT TO SCALE

KEYNOTES

1 TWO DEDICATED TELEPHONE LINES TO IT ROOM TO CONNECT THE FIRE ALARM PANEL TO CENTRAL FIRE ALARM MONITORING STATION.

2 COORDINATE WITH THE SPRINKLER SYSTEM CONTRACTOR FOR THE EXACT NUMBER AND LOCATIONS OF THE SPRINKLER SYSTEM VALVES WATER FLOW AND MONITORING TAMPER SWITCHES PRIOR TO ROUGH-IN.

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WTJX BROADCASTING FACILITY

Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

FIRE ALARM RISER DIAGRAM

REVISIONS:		
NO.	Description	Date
AD1	Addendum 1	3/7/2025

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NOVUS JOB NUMBER
201

SHEET NUMBER
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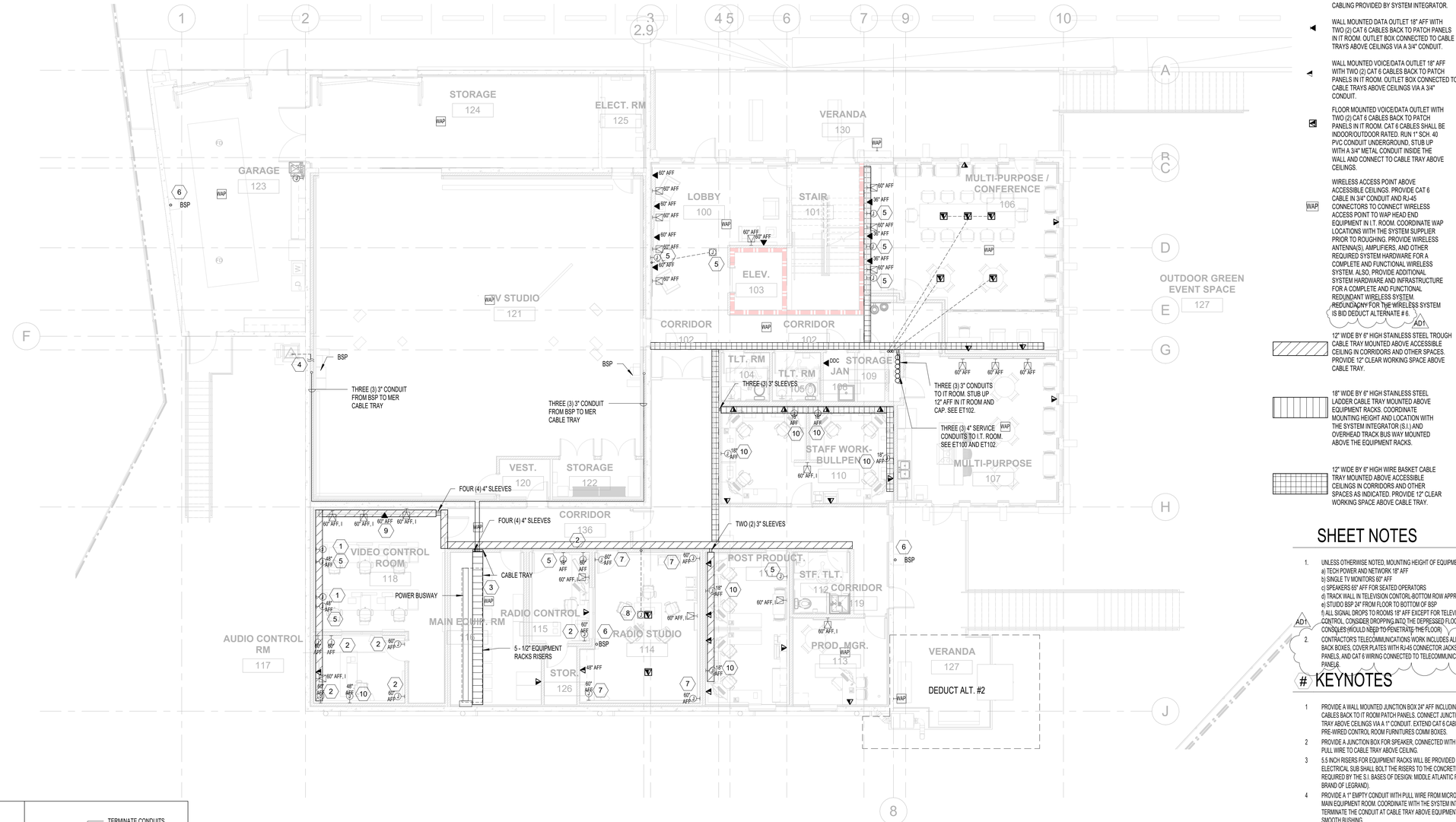
CONSTRUCTION DRAWINGS

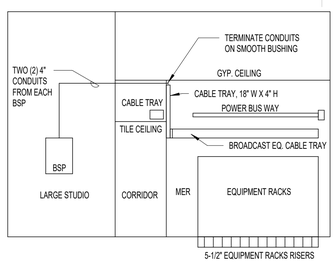


PLAN NORTH

1 ET101 — FIRST FLOOR - COMM PLAN

1/8" = 1'-0"

0 2' 4' 8' 16'



2 ET101 — BSP RACEWAY ROUTING DIAGRAM

NOT TO SCALE (TYPICAL FOR TWO (2) SETS OF TWO (2) 4" CONDUITS)

TELECOM LEGEND

- 60" AFF — WALL MOUNTED TV OUTLET 60" AFF WITH CAT 6 CABLE IN 3/4" CONDUIT BACK TO HEAD-END EQUIPMENT IN EQUIPMENT ROOM RACKS.
- 60" AFF, I — WALL MOUNTED TV OUTLET BOX 60" AFF CONNECTED TO CABLE TRAY ABOVE CEILINGS VIA A 3/4" CONDUIT. PROVIDE PULL STRING IN CONDUIT AND COORDINATE WITH THE SYSTEM INTEGRATOR FOR OUTLET REQUIREMENTS. CABLING PROVIDED BY SYSTEM INTEGRATOR.
- WALL MOUNTED DATA OUTLET 18" AFF WITH TWO (2) CAT 6 CABLES BACK TO PATCH PANELS IN IT ROOM. OUTLET BOX CONNECTED TO CABLE TRAYS ABOVE CEILINGS VIA A 3/4" CONDUIT.
- WALL MOUNTED VOICE/DATA OUTLET 18" AFF WITH TWO (2) CAT 6 CABLES BACK TO PATCH PANELS IN IT ROOM. OUTLET BOX CONNECTED TO CABLE TRAYS ABOVE CEILINGS VIA A 3/4" CONDUIT.
- FLOOR MOUNTED VOICE/DATA OUTLET WITH TWO (2) CAT 6 CABLES BACK TO PATCH PANELS IN IT ROOM. CAT 6 CABLES SHALL BE INDOOR/OUTDOOR RATED. RUN 1" SCH. 40 PVC CONDUIT UNDERGROUND, STUB UP WITH A 3/4" METAL CONDUIT INSIDE THE WALL AND CONNECT TO CABLE TRAY ABOVE CEILINGS.
- WAP — WIRELESS ACCESS POINT ABOVE ACCESSIBLE CEILINGS. PROVIDE CAT 6 CABLE IN 3/4" CONDUIT AND RJ-45 CONNECTORS TO CONNECT WIRELESS ACCESS POINT TO WAP HEAD END EQUIPMENT IN I.T. ROOM. COORDINATE WAP LOCATIONS WITH THE SYSTEM SUPPLIER PRIOR TO ROUGHING. PROVIDE WIRELESS ANTENNA(S), AMPLIFIERS, AND OTHER REQUIRED SYSTEM HARDWARE FOR A COMPLETE AND FUNCTIONAL WIRELESS SYSTEM. ALSO, PROVIDE ADDITIONAL SYSTEM HARDWARE AND INFRASTRUCTURE FOR A COMPLETE AND FUNCTIONAL REDUNDANT WIRELESS SYSTEM. REDUNDANCY FOR THE WIRELESS SYSTEM IS BID DEDUCT ALTERNATE # 6. AD1
- 12" WIDE BY 6" HIGH STAINLESS STEEL TROUGH CABLE TRAY MOUNTED ABOVE ACCESSIBLE CEILING IN CORRIDORS AND OTHER SPACES. PROVIDE 12" CLEAR WORKING SPACE ABOVE CABLE TRAY.
- 18" WIDE BY 6" HIGH STAINLESS STEEL LADDER CABLE TRAY MOUNTED ABOVE EQUIPMENT RACKS. COORDINATE MOUNTING HEIGHT AND LOCATION WITH THE SYSTEM INTEGRATOR (S.I.) AND OVERHEAD TRACK BUS WAY MOUNTED ABOVE THE EQUIPMENT RACKS.
- 12" WIDE BY 6" HIGH WIRE BASKET CABLE TRAY MOUNTED ABOVE ACCESSIBLE CEILINGS IN CORRIDORS AND OTHER SPACES AS INDICATED. PROVIDE 12" CLEAR WORKING SPACE ABOVE CABLE TRAY.

SHEET NOTES

1. UNLESS OTHERWISE NOTED, MOUNTING HEIGHT OF EQUIPMENT SHALL BE AS FOLLOWS:
   a) TECH POWER AND NETWORK 18" AFF
   b) SINGLE TV MONITORS 60" AFF
   c) SPEAKERS 65" AFF FOR SEATED OPERATORS
   d) TRACK WALL IN TELEVISION CONTORL-BOTTOM ROW APPROX. 48" AND TOP ROW 77" AFF
   e) STUDIO BSP 24" FROM FLOOR TO BOTTOM OF BSP
   f) ALL SIGNAL DROPS TO ROOMS 18" AFF EXCEPT FOR TELEVISION VIDEO AND AUDIO CONTROL, CONSIDER DROPPING INTO THE DEPRESSED FLOOR AND BRINGING TO CONSOLES (WOULD NEED TO PENETRATE THE FLOOR) AD1
2. CONTRACTOR'S TELECOMMUNICATIONS WORK INCLUDES ALL CONDUITS, CABLE TRAYS, BACK BOXES, COVER PLATES WITH RJ-45 CONNECTOR JACKS, EQUIPMENT RACKS, PATCH PANELS, AND CAT 6 WIRING CONNECTED TO TELECOMMUNICATION OUTLETS AND PATCH PANELS.

KEYNOTES

1 PROVIDE A WALL MOUNTED JUNCTION BOX 24" AFF INCLUDING SIX (6) CAT 6 CABLES BACK TO IT ROOM PATCH PANELS. CONNECT JUNCTION BOX TO CABLE TRAY ABOVE CEILINGS VIA A 1" CONDUIT. EXTEND CAT 6 CABLES TO CONNECT TO PRE-WIRED CONTROL ROOM FURNITURES COMM BOXES.

2 PROVIDE A JUNCTION BOX FOR SPEAKER, CONNECTED WITH A 1" CONDUIT WITH PULL WIRE TO CABLE TRAY ABOVE CEILING.

3 5.5 INCH RISERS FOR EQUIPMENT RACKS WILL BE PROVIDED BY THE S.I. ELECTRICAL SUB SHALL BOLT THE RISERS TO THE CONCRETE FLOOR AS REQUIRED BY THE S.I. BASES OF DESIGN: MIDDLE ATLANTIC RIB SERIES RISER (A BRAND OF LEGRAND).

4 PROVIDE A 1" EMPTY CONDUIT WITH PULL WIRE FROM MICROWAVE ANTENNA TO MAIN EQUIPMENT ROOM. COORDINATE WITH THE SYSTEM INTERGRATOR TO TERMINATE THE CONDUIT AT CABLE TRAY ABOVE EQUIPMENT RACKS WITH SMOOTH BUSHING.

5 PROVIDE A WALL MOUNTED RECESSED JUNCTION BOX CONNECTED TO CABLE TRAY ABOVE CEILINGS WITH TWO (2) 3" CONDUIT FOR BROADCASTING SYSTEM WIRING. PROVIDE PULL WIRE AND TERMINATE CONDUIT ON SMOOTH BUSHING. IN OPEN SPACES), PROVIDE A FLOOR MOUNTED RECESSED JUNCTION BOX CONNECTED TO A 1" SCHEDULE 40 PVC UNDERGROUND CONDUIT EXTENDED TO NEAREST DRY WALL. STUB UP WITH METAL CONDUIT TO CONNECT TO NEAREST CABLE TRAY ABOVE CEILINGS. PROVIDE PULL WIRE AND TERMINATE CONDUIT ON SMOOTH BUSHING.

6 PROVIDE A 2" CONDUIT WITH PULL WIRE FROM BSP TO MER ROOM S.I. EQUIPMENT RACK.

7 PROVIDE A 3/4" CONDUIT WITH PULL WIRE FROM THE JUNCTION BOX TO BSP PANEL IN SMALL STUDIO.

8 TWO (2) 1" SCHEDULE 40 PVC CONDUIT TO CABLE TRAY ABOVE CEILING.

9 CONNECT CLOCKS OUTLET BOX WITH A 3/4" CONDUIT TO CABLE TRAY ABOVE CEILING.

10 ONE (1) 3" CONDUIT WITH PULL WIRE FROM JUNCTION BOX TO CABLE TRAY ABOVE CEILING FOR S.I. CABLING.

NOTICE TO BIDDERS AD1

REDUNDANT IT AND WIRELESS SYSTEMS ARE INCLUDED IN THE BASE BID AND SHALL BE PRICED AS A BID ALTERNATE ITEM. REDUNDANT IT AND WIRELESS SYSTEMS INCLUDE ANY AND ALL RACEWAY INFRASTRUCTURE, ANTENNAS, AMPLIFIERS, PATCH PANELS, SERVERS, ROUTERS, INTERNET SWITCHES, AND OTHER SYSTEMS REQUIRED HARDWARE AND SOFTWARE COMPONENTS TO PROVIDE A FULLY FUNCTIONAL REDUNDANT SYSTEM. THE REDUNDANT IT AND WIRELESS SYTEMS IS BID DEDUCT ALTERNATE #6.

COORDINATION NOTES

1. THE GENERAL CONTRACTOR SHALL HAVE COORDINATION MEETINGS WITH THE OWNER'S BROADCAST INFRASTRUCTURE INTEGRATOR AND MAKE FINAL COORDINATION OF ALL ELECTRICAL AND DATA INFRASTRUCTURE WITH THE INTERGRATOR'S FINAL EQUIPMENT LAYOUT.
2. THE CONTRACTOR SHALL PROVIDE A MOCK-UP OF ALL COMPONENTS BEFORE ROUGH-IN, IN EACH ROOM WITH CARDBOARD AND LOCATION REVIEWED WITH THE OWNER PRIOR TO ROUGH-IN.

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GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS

WTJX BROADCASTING FACILITY

Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

FIRST FLOOR TELECOMMUNICATIONS PLAN

REVISIONS:

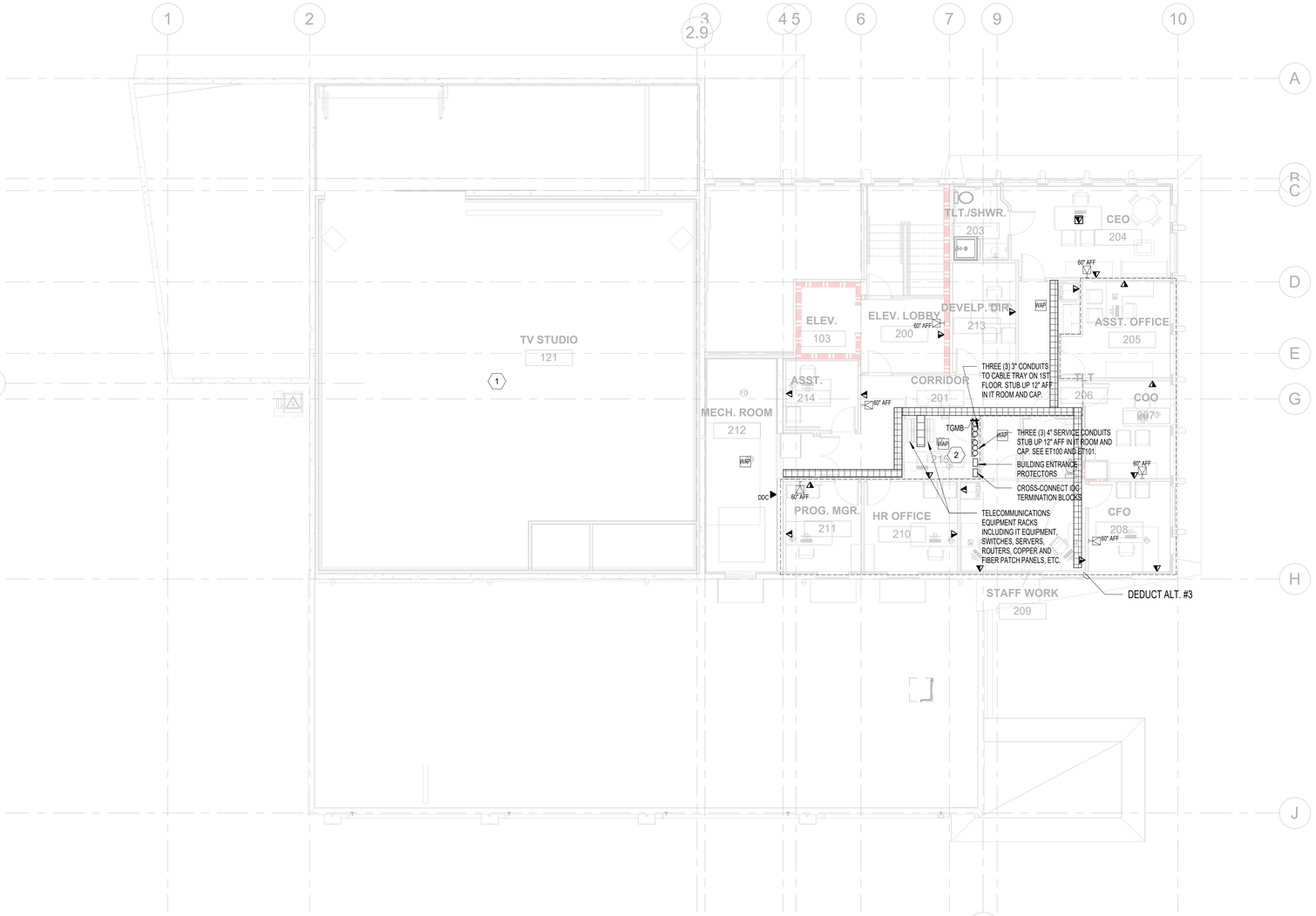
NO.	Description	Date
AD1	Addendum 1	3/7/2025

DRAWN BY:	TF
CHECKED BY:	KA
DATE:	April 26, 2024

NOVUS JOB NUMBER 201

SHEET NUMBER ET101

CONSTRUCTION DRAWINGS



PLAN NORTH

1 ET102

SECOND FLOOR - COMM PLAN

1/8" = 1'-0"

0 2' 4' 8' 16'

TELECOM LEGEND

60" AFF — WALL MOUNTED TV OUTLET 60" AFF WITH CAT 6 IN 3/4" CONDUIT BACK TO HEAD-END EQUIPMENT IN EQUIPMENT ROOM RACKS.

60" AFF — WALL MOUNTED TV OUTLET BOX 60" AFF CONNECTED TO CABLE TRAY ABOVE CEILINGS VIA A 3/4" CONDUIT. PROVIDE PULL STRING IN CONDUIT AND COORDINATE WITH THE SYSTEM INTEGRATOR FOR OUTLET REQUIREMENTS. CABLING PROVIDED BY SYSTEM INTEGRATOR.

WALL MOUNTED DATA OUTLET 18" AFF WITH TWO (2) CAT 6 CABLES BACK TO PATCH PANELS IN IT ROOM. OUTLET BOX CONNECTED TO CABLE TRAYS ABOVE CEILINGS VIA A 3/4" CONDUIT.

WALL MOUNTED VOICE/DATA OUTLET 18" AFF WITH TWO (2) CAT 6 CABLES BACK TO PATCH PANELS IN IT ROOM. OUTLET BOX CONNECTED TO CABLE TRAYS ABOVE CEILINGS VIA A 3/4" CONDUIT.

FLOOR MOUNTED VOICE/DATA OUTLET WITH TWO (2) CAT 6 CABLES BACK TO PATCH PANELS IN IT ROOM. CAT 6 CABLES SHALL BE INDOOR/OUTDOOR RATED. RUN 1" SCH. 40 PVC CONDUIT UNDERGROUND, STUB UP WITH A 3/4" METAL CONDUIT INSIDE THE WALL AND CONNECT TO CABLE TRAY ABOVE CEILINGS.

WAP — WIRELESS ACCESS POINT ABOVE ACCESSIBLE CEILINGS. PROVIDE CAT 6 CABLE IN 3/4" CONDUIT AND RJ-45 CONNECTORS TO CONNECT WIRELESS ACCESS POINT TO WAP HEAD END EQUIPMENT IN I.T. ROOM. COORDINATE WAP LOCATIONS WITH THE SYSTEM SUPPLIER PRIOR TO ROUGHING. PROVIDE WIRELESS ANTENNA(S), AMPLIFIERS, AND OTHER REQUIRED SYSTEM HARDWARE FOR A COMPLETE AND FUNCTIONAL WIRELESS SYSTEM. ALSO, PROVIDE ADDITIONAL SYSTEM HARDWARE AND INFRASTRUCTURE FOR A COMPLETE AND FUNCTIONAL REDUNDANT WIRELESS SYSTEM. REDUNDACY FOR THE WIRELESS SYSTEM IS DEDUCT ALTERNATE #6. AD1

12" WIDE BY 6" HIGHT WIRE BASKET CABLE TRAY MOUNTED ABOVE ACCESSIBLE CEILINGS IN CORRIDORS AND OTHER SPACES AS INDICATED. PROVIDE 12" CLEAR WORKING SPACE ABOVE CABLE TRAY.

SHEET NOTES

1. UNLESS OTHERWISE NOTED, MOUNTING HEIGHT OF EQUIPMENT SHALL BE AS FOLLOWS:
   a) TECH POWER AND NETWORK 18" AFF
   b) SINGLE TV MONITORS 60" AFF
   c) SPEAKERS 65" AFF FOR SEATED OPERATORS
   d) TRACK WALL IN TELEVISION CONTORL-BOTTOM ROW APPROX. 48" AND TOP ROW 77" AFF
   e) STUDIO BSP 24" FROM FLOOR TO BOTTOM OF BSP
   f) ALL SIGNAL DROPS TO ROOMS 18" AFF EXCEPT FOR TELEVISION VIDEO AND AUDIO CONTROL. CONSIDER DROPPING INTO THE DEPRESSED FLOOR AND BRINGING TO CONSOLES (WOULD NEED TO PENETRATE THE FLOOR)
2. CONTRACTORS TELECOMMUNICATIONS WORK INCLUDES ALL CONDUITS, CABLE TRAYS, BACK BOXES, COVER PLATES WITH RJ-45 CONNECTOR JACKS, EQUIPMENT RACKS, PATCH PANELS, AND CAT 6 WIRING CONNECTED TO TELECOMMUNICATION OUTLETS AND PATCH PANELS. AD1

KEYNOTES

1. GRID MOUNTED LIGHTING SYSTEM IN LARGE STUDIO PROVIDING LIGHTING FOR THE BROADCASTING SYSTEM IS NETWORK CONTROLLED LOCATED IN THE MAIN EQUIPMENT ROOM. PROVIDE A CAT 6 CABLE IN A 3/4" CONDUIT TO CONNECT LIGHT FIXTURES TO LIGHTING CONTROLLER EQUIPMENT RACK IN MAIN EQUIPMENT ROOM. COORDINATE ALL REQUIREMENTS WITH LIGHTING EQUIPMENT VENDOR AND BROADCASTING SYSTEM INTERGRATOR PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE ADDITIONAL IT HEAD-END EQUIPMENT IN THE COMM ROOM (PATCH PANELS, SERVERS, ROUTERS, INTERNET SWITCHES, ETC.) FOR A COMPLETE AND FUNCTIONAL REDUNDANT TELECOMMUNICATIONS SYSTEM. THE REDUNDANT TELECOMMUNICATION SYSTEM IS BID ALTERNATE ITEM #6.

COORDINATION NOTES

1. THE GENERAL CONTRACTOR SHALL HAVE COORDINATION MEETINGS WITH THE OWNER'S BROADCAST INFRASTRUCTURE INTEGRATOR AND MAKE FINAL COORDINATION OF ALL ELECTRICAL AND DATA INFRASTRUCTURE WITH THE INTERGRATOR'S FINAL EQUIPMENT LAYOUT.
2. THE CONTRACTOR SHALL PROVIDE A MOCK-UP OF ALL COMPONENTS BEFORE ROUGH-IN, IN EACH ROOM WITH CARDBOARD AND LOCATION REVIEWED WITH THE OWNER PRIOR TO ROUGH-IN.

NOTICE TO BIDDERS

AD1 — REDUNDANT IT AND WIRELESS SYSTEMS ARE INCLUDED IN THE BASE BID AND SHALL BE PRICED AS A BID ALTERNATE ITEM. REDUNDANT IT AND WIRELESS SYSTEMS INCLUDE ANY AND ALL RACEWAY INFRASTRUCTURE, ANTENNAS, AMPLIFIERS, PATCH PANELS, SERVERS, ROUTERS, INTERNET SWITCHES, AND OTHER SYSTEMS REQUIRED HARDWARE AND SOFTWARE COMPONENTS TO PROVIDE A FULLY FUNCTIONAL REDUNDANT SYSTEM. THE REDUNDANT IT AND WIRELESS SYSTEMS IS BID DEDUCT ALTERNATE #6.

springline architects — A NOVUS ARCHITECTS Company

WTJX BROADCASTING FACILITY

Haypiece Hill, Parcel 158A and 158 Rem
Submarine base, St. Thomas USVI

SECOND FLOOR TELECOMMUNICATIONS PLAN

REVISIONS:

NO.	Description	Date
AD1	Addendum 1	3/7/2025

DRAWN BY: TF
CHECKED BY: KA
DATE: April 26, 2024

NOVUS JOB NUMBER
201

SHEET NUMBER
ET102

CONSTRUCTION DRAWINGS