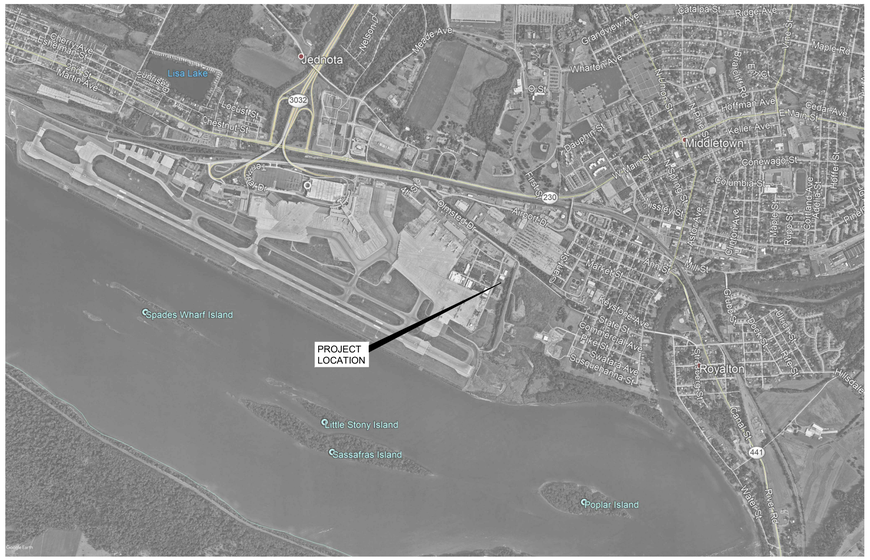

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HARRISBURG ANGB, PA

SOF CONSTRUCT SIMULATOR BAY / JET ENGINE MAINTENANCE SHOP ADDITION

Project No.: SHYQ192003

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A/C	AIR CONDITIONING
A/E	ARCHITECT/ENGINEER
A	AMPERE
AB	ANCHOR BOLT
ABAN	ABANDON
ABC	AGGREGATE BASE COURSE
ABT	ABOUT
AC	ALTERNATING CURRENT
ACK	ACKNOWLEDGE
ACP	ACOUSTIC CEILING PANEL, ASPHALTIC CONCRETE PAVEMENT
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
AD	ADDENDUM, AREA DRAIN
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE, ADJACENT
ADW	AVERAGE DRY WEATER
AF	AMP FRAME, AMP FUSE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AGGR	AGGREGATE
AI	AREA INLET, ANALOG INPUT
AIC	AMPS INTERRUPTING CAPACITY
ALIG	ALIGNMENT
ALT	ALTERNATE, ALTITUDE
ALUM	ALUMINUM
AM	ACOUSTICAL MATERIAL
AMB	AMBIENT
ANC	ANCHOR
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APRX	APPROXIMATE
APVD	APPROVED
ARCH	ARCHITECTURAL
ASSY	ASSEMBLY
AT	ACOUSTICAL TILE, AMP TRIP
ATM	ATMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
AWT	ACOUSTICAL WALL TILE
B TO B	BACK TO BACK
BAL	BALANCE
BBD	BULLETIN BOARD
BC	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE
BD	BOARD
BE	BOTH ENDS, BELL END
BF	BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET
BITUM	BITUMINOUS
BKG	BACKING
BL	BASE LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCHMARK, BEAM
BOC	BACK OF CURB
BOD	BOTTOM OF DUCT
BOG	BOTTOM OF GRILLE
BOL	BOTTOM OF LOUVER, BOLLARD
BOP	BOTTOM OF PIPE
BOR	BOTTOM OF REGISTER
BOT	BOTTOM
BOU	BOTTOM OF UNIT
BP	BASE PLATE
BRG	BEARING
BRGP	BEARING PLATE
BRKT	BRACKET
BS	BOTH SIDES
BTU	BRITISH THERMAL UNIT
BTW	BETWEEN
BTWLD	BUTT WELD
BU	BELL UP, BUILT-UP
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
BYP	BYPASS
C TO C	CENTER TO CENTER
C□G	CURB AND GUTTER
C	CHANNEL SHAPE, CENTIGRADE, CONDUIT
CAB	CABINET
CAP	CAPACITY
CAT	CATALOG, CATALOGIORY
CAV	CAVITY
CB	CATCH BASIN
CCB	CONCRETE BLOCK
CCW	COUNTER CLOCKWISE
CDF	CONTROLLED-DENSITY FILL
CE	CONCRETE EDGE
CER	CERAMIC
CF	CUBIC FEET □FOOT□
CFL	COUNTER FLASHING
CHBD	CHALKBOARD
CHD	CHORD
CHFR	CHAMFER
CHH	COMMUNICATION HANDHOLE
CI	CURB INLET
CIP	CAST-IN-PLACE
CIPB	CONCRETE INTERLOCKING PAVER BALLAST
CIRC	CIRCULATION, CIRCULAR

CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
CL	CENTERLINE, CLASS, CLOSE
CLG	CEILING
CLKG	CAULKING
CLR	CLEAR
CMH	COMMUNICATION MANHOLE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT, CONCRETE OPENING
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMM	COMMUNICATION
COMP	COMPOSITION, COMPRESSIBLE, COMPOSITE
CON	CONCENTRIC
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COOR	COORDINATE
CORR	CORROSIVE, CORRUGATED
CP	CHECKER PLATE, CONTROL POINT
CPLG	COUPLING
CRL	CORROSION-RESISTANT LINING
CSC	COMPRESSION SLEEVE COUPLING
CSK	COUNTERSINK
CSS	CLINIC SERVICE SINK
CT	CERAMIC TILE
CTJ	CONTRACTION JOINT
CTR	CENTER
CTRL	CONTROL
CVT	CULVERT
CU	COPPER, CUBIC
CW	CLOCKWISE
CY	CUBIC YARD
d	PENNY □NAIL MEASURE□
D	DEEP, DIFFUSER, DRAIN
DB	DUCT BANK, DECIBEL, DRY BULB
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DEG C	DEGREE CENTIGRADE
DEG F	DEGREE FAHRENHEIT
DEMO	DEMOLITION
DEP	DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DI	DROP INLET, DUCTILE IRON, DIGITAL INPUT
DIA	DIAMETER
DIAG	DIAGONAL, DIAGRAM
DIFF	DIFFERENTIAL, DIFFERENCE
DIM	DIMENSION
DISCH	DISCHARGE
DIST	DISTANCE, DISTRIBUTION
DIV	DIVISION
DL	DEAD LOAD
DMJ	DOUBLE MECHANICAL JOINT
DMPF	DAMP PROOFING
DN	DOWN
DO	DISSOLVED OXYGEN, DIGITAL OUTPUT, DITTO
DP	DEPTH
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DS	DOWN SPOUT
DT	DOUBLE TEE, DRIP TRAP ASSEMBLY
DUP	DUPLICATE
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
E	EAST
EA	EACH, EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
ED	EQUIPMENT DRAIN
EDB	ELECTRICAL DUCT BANK
EE	EACH END
EF	EACH FACE
EFF	EFFLUENT, EFFICIENCY
EHH	ELECTRICAL HANDHOLE
EIFS	EXTERIOR INSULATION □ FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELBOW, ELEVATION
ELEC	ELECTRICAL
EMBD	EMBEDDED
EMER	EMERGENCY
EMH	ELECTRICAL MANHOLE
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE, EQUAL SPACE, EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER AND EYE WASH
EST	ESTIMATE
EW	EACH WAY, EMERGENCY EYE/FACE WASH
EWC	ELECTRIC WATER COOLER

EWEF	EACH WAY, EACH FACE
EWTB	EACH WAY, TOP AND BOTTOM
EXC	EXCAVATION
EXH	EXHAUST
EXP	EXPANSION, EXPOSED
EXST	EXISTING
EXT	EXTERIOR, EXTERNAL, EXTENSION
F TO F	FACE TO FACE
F□B	FACE AND BYPASS
FAB	FABRICATE
FB	FLOOR BEAM
FBD	FIBERBOARD
FBG	FIBERGLASS
FBM	BOARD FOOT MEASURE
FBO	FURNISHED BY OWNER
FC	FLUSHING CONNECTION
FCA	FLANGED COUPLING ADAPTER
FD	FLOOR DRAIN
FDC	FLEXIBLE DUCT CONNECTION
FDR	FEEDER
FDTN	FOUNDATION
FE	FLANGED END
FEC	FIRE EXTINGUISHER CABINET
FES	FLARED END SECTION
FEXT	FIRE EXTINGUISHER
FF	FAR FACE, FACTORY FINISH, FLAT FACE
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH
FJT	FLUSH JOINT
FL	FLOW, FLOW LINE
FLEX	FLEXIBLE
FLG	FLANGE
FLOR	FLUORESCENT
FLR	FLOOR
FLS	FLASHING, FLUSH
FN	FENCE
FO	FINISHED OPENING, FIBER OPTIC
FOB	FLAT ON BOTTOM
FOC	FACE OF CONCRETE, FACE OF CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOT	FLAT ON TOP
FPT	FEMALE PIPE THREAD
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRTM	FIRE RETARDANT TREATED MATERIAL
FS	FLOOR SINK, FAR SIDE
FT	FEET, FOOT
FTG	FOOTING, FITTING
FUR	FURRED, FURRING
FURN	FURNITURE, FURNISH
FUT	FUTURE
FV	FACE VELOCITY
FW	FIELD WELD, FIRE WALL
FWD	FORWARD
FWE	FURNISHED WITH EQUIPMENT
FXTR	FIXTURE
G	GRILLE, GROUND
GA	GAGE □METAL THICKNESS□
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR, GRADE BREAK
GC	GROOVED COUPLING
GD	GUARD
GEN	GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFMU	GROUND FACE MASONRY UNIT
GG	GUTTER GRADE
GJ	GROOVED JOINT
GL	GLASS
GLB	GLASS BLOCK, GLULAM BEAM
GND	GROUND
GP	GUY POLE
GR	GRADE
GRTG	GRATING
GSB	GYPSUM SHEATHING BOARD
GT	GREASE TRAP
GVL	GRAVEL
GW	GUY WIRE
GWB	GYPSUM WALLBOARD
GB	GYPSUM BOARD
H	HIGH
HB	HOSE BIBB
HBD	HARDBOARD
HC	HANDICAPPED, HOLLOW CORE, HORIZONTAL CURVE, HORIZONTAL CENTERLINE
HD	HEAD, HOT DIP
HDR	HEADER
HDW	HARDWARE
HEX	HEXAGONAL
HGR	HANGER
HH	HANDHOLE
HID	HIGH-INTENSITY DISCHARGE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT, HORSEPOWER
HPC	HORIZONTAL POINT OF CURVATURE
HPS	HIGH-PRESSURE SODIUM
HPT	HORIZONTAL POINT OF TANGENCY
HR	HOSE REEL, HOUR

HS	HEADED STUD, HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SHAPE
HT	HEIGHT
HTG	HEATING
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWD	HARDWOOD
HWL	HIGH WATER LEVEL
HYD	HYDRAULIC
HZ	HERTZ, CYCLES PER SECOND
ID	INSIDE DIAMETER, INTERIOR DIMENSION
IE	INVERT ELEVATION, FOR EXAMPLE
IF	INSIDE FACE
IH	INTAKE HOOD
IMP	IMPACT
IN	INCH
INC	INCLUDE, INCANDESCENT
INF	INFLUENT
INSTR	INSTRUMENTATION
INSUL	INSULATION
INT	INTERIOR, INTERSECTION
INTR	INTERMEDIATE, INTERIOR
INV	INVERT
IPS	IRON PIPE SIZE
IPT	INTERNAL PIPE THREAD
IR	INSIDE RADIUS, IRON ROD
IRR	IRRIGATION
ISO	ISOMETRIC
JB	JUNCTION BOX
JCT	JUNCTION
JF	JOINT FILLER
JST	JOIST
JT	JOINT
K	KIP
KB	KNEE BRACE
KCMIL	THOUSAND CIRCULAR MILS
KD	KNOCK DOWN
KO	KNOCK OUT
KSI	KIPS PER SQUARE INCH
KW	KILOWATT
L	ANGLE, LENGTH, LAVATORY, LINTEL
LAD	LADDER
LAM	LAMINATE
LATL	LATERAL
LB	LAG BOLT, POUND
LCTB	LIQUID CHALK AND TACK BOARD
LDG	LANDING
LDR	LEADER
LE	LIFTING EYE
LF	LINEAR FOOT
LG	LONG
LH	LEFT HAND
LIN	LINEAR
LIQ	LIQUID
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMLU	LIQUID MARKER LECTURE UNIT
LNG	LONGITUDINAL
LOC	LOCATION
LP	LOW POINT
LPS	LOW-PRESSURE SODIUM
LR	LONG RADIUS
LT	LEFT
LTD	LIMITED
LTG	LIGHTING
LTL	LINTEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
LVL	LAMINATED VENEER LUMBER
LVR	LOUVER
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
LWL	LOW WATER LEVEL
MA	MIXED AIR
MACH	MACHINED
MAINT	MAINTENANCE
MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MC	MECHANICAL CONTRACTOR, MECHANICAL COUPLING, MOMENT CONNECTION
MCB	METAL CORNER BEAD
MCJ	MASONRY CONTROL JOINT
MDMJ	MODIFIED DOUBLE MECHANICAL JOINT
MECH	MECHANICAL
MED	MEDIUM
MFR	MANUFACTURER
MH	MANHOLE, METAL HALIDE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MASONRY LINTEL
MLO	MAIN LUGS ONLY
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULAR, MODIFY

MON	MONUMENT
MPT	MALE PIPE THREAD
MRGWB	MOISTURE-RESISTANT GYPSUM WALLBOARD
MS	MOP SINK
MSL	MEAN SEA LEVEL
MT	MOUNT
MU	MASONRY UNIT, MAKE-UP AIR UNIT
MULL	MULLION
MV	MEDIUM VOLTAGE
MW	MONITORING WELL
N	NORTH, NEUTRAL
NA	NOT APPLICABLE
NAT	NATURAL, NATIONAL
NC	NORMALLY CLOSED
NEG	NEGATIVE
NF	NEAR FACE, NON-FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NPT	NATIONAL PIPE THREAD
NS	NEAR SIDE
NTS	NOT TO SCALE
NWL	NORMAL WATER LEVEL
O TO O	OUT TO OUT
OA	OUTSIDE AIR, OVERALL
OC	ON CENTER
OCPD	OVER CURRENT PROTECTION DEVICE
OD	OUTSIDE DIAMETER
OED	OPEN END DUCT
OF	OUTSIDE FACE, OFFICE FURNISHING
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OG	ORIGINAL GROUND
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
OR	OUTSIDE RADIUS
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OVFL	OVERFLOW
OVHG	OVERHANG
OZ	OUNCE
P	PAINT
PA	PUBLIC ADDRESS
PAR	PARALLEL, PARAPET
PB	PANIC BAR, PULL BOX
PBD	PARTICLE BOARD
PC	POINT OF CURVE, PIECE, PRECAST
PCC	POINT OF COMPOUND CURVATURE
PCF	POUNDS PER CUBIC FOOT
PCT	PERCENT
PE	PLAIN END
PED	PEDESTAL
PEN	PENETRATION
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PF	POWER FACTOR
PFMU	PREFACED MASONRY UNIT
PH	PHASE
PHWW	PEAK HOUR WET WEATHER
PI	POINT OF INTERSECTION
PKG	PACKAGE
PL	PLATE, PROPERTY LINE, PRECAST LINTEL
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PNEU	PNEUMATIC
POL	POLISH
POS	POSITIVE, POSITION
PP	POLYPROPYLENE, POWER POLE
PRC	POINT OF REVERSE CURVATURE
PREF	PREFINISHED
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PREP	PREPARE
PRES	PRESSURE
PRI	PRIMARY
PROP	PROPERTY, PROPOSED
PROT	PROTECTION
PS	PIPE SUPPORT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PST	PRESTRESSED
PT	POINT, POINT OF TANGENCY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE
PVMT	PAVEMENT
PWD	PLYWOOD
PWJ	PLYWOOD WEB JOIST
PZ	PIEZOMETER
Q	RATE OF FLOW
QT	QUARRY TILE
QTR	QUARTER

QTY	QUANTITY
QUAL	QUALITY
R□R	REMOVE AND REPLACE
R□S	REMOVE AND SALVAGE
R	RADIUS, REGISTER, RISER
RA	RETURN AIR
RB	RESILIENT BASE, ROCK BERM
RCPT	RECEPTACLE
RD	ROOF DRAIN
REC	RECESS
RECD	RECEIVED
RECT	RECTANGULAR
RED	REDUCER
REF	REFERENCE
REINF	REINFORCING
REM	REMOVE
REQD	REQUIRED
RESIL	RESILIENT
RET	RETAINING, RETURN
REV	REVISION, REVERSE
RF	RESILIENT FLOORING
RFG	ROOFING
RFL	REFLECTED, REFLECTOR
RGH	ROUGH
RGS	RIGID GALVANIZED STEEL
RGS-PVC	PVC COATED RGS
RH	RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY
RL	REQUIRED LAP
RLFA	RELIEF AIR
RND	ROUND
RNG	RUNNING
RO	ROUGH OPENING
ROW	RIGHT-OF-WAY
RPM	REVOLUTIONS PER MINUTE, ROOT PRODUCTION METHOD
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION
RT	RIGHT
RVT	RESILIENT VINYL TILE
RY	READY
S	SOUTH, SINK
SA	SUPPLY AIR
SAMU	SOUND-ABSORBING MASONRY UNIT
SAN	SANITARY
SB	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SCHEM	SCHEMATIC
SCN	SCREEN
SE	STEEL/ALUMINUM EDGE
SEC	SECONDARY, SECONDS
SECT	SECTION
SEP	SEPARATE
SF	SQUARE FOOT, SILT FENCE
SG	SHEET GLASS, SEALANT GROOVE
SH	SHOWER
SHT	SHEET
SHTG	SHEATHING
SIL	SILENCE
SIM	SIMILAR
SJ	SLAB JOINT
SL	SLOPE, STEEL LINTEL
SLTD	SLOTTED
SLV	SLEEVE
SMLS	SEAMLESS
SOG	SLAB ON GRADE
SP	SOUNDPROOF, STANDPIPE
SPA	SPACING
SPEC	SPECIFICATION
SPLY	SUPPLY
SPST	SINGLE POLE SINGLE THROW
SPT	SET POINT
SQ	SQUARE
SR	SHORT RADIUS
SS	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STR	STRUCTURAL, STRAIGHT, STAIR
SUB	SUBSTITUTE
SUC	SUCTION
SUSP	SUSPENDED
SY	SQUARE YARD
SYM	SYMBOL
SYMM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T□B	TOP AND BOTTOM
T□G	TONGUE AND GROOVE
T	TILE, TREAD
TA	TOILET ACCESSORY, TEMPERED AIR
TAN	TANGENT
TBM	TEMPORARY BENCHMARK
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEF	TROWELED EPOXY FLOORING
TEMP	TEMPORARY, TEMPERATURE
THD	THREAD

THK	THICK
THRESH	THRESHOLD
TKBD	TACK BOARD
TO	TOP OF
TOB	TOP OF BOLT, TOP OF BANK, TOP OF BEAM, TOP OF BERM
TOC	TOP OF CURB, TOP OF CONCRETE
TOD	TOP OF DUCT
TOF	TOP OF FOOTING
TOG	TOP OF GRATING
TOL	TOLERANCE, TOP OF LEDGER
TOM	TOP OF MASONRY
TOP	TOP OF PLATE
TOPO	TOPOGRAPHY
TOS	TOP OF SLAB, TOP OF STEEL, TOE OF SLOPE
TOW	TOP OF WALL
TP	TOILET PARTITION, TELEPHONE POLE, TOE PLATE, TRAP PRIMER
TPD	TOILET PAPER DISPENSER
TPG	TOPPING, THROUGH PLATE GIRDER
TR	TRANSOM
TRANS	TRANSITION
TRD	TRENCH DRAIN
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
ULT	ULTIMATE
UNFN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
V	VENT, VELOCITY, VOLT
VA	VOLT AMPERE
VAC	VACUUM
VAR	VARNISH, VARIABLE, VOLT AMPERES REACTIVE
VB	VAPOR BARRIER, VINYL BASE, VALVE BOX
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE, VERTICAL CENTERLINE
VEL	VELOCITY
VENT	VENTILATION
VERT	VERTICAL
VERTS	VERTICAL REINFORCING
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VIN	VINYL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
VS	VERSUS, VAPOR SEAL
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
W	WATT, WEST, WIDE, WINDOW, WIRE, WIDE FLANGE BEAM
WB	WOOD BASE
WC	WATER CLOSET, WATER COLUMN
WD	WOOD, WIDTH
WF	WIDE FLANGE, WASH FOUNTAIN
WG	WIRE GLASS, WATER GAGE
WH	WALL HYDRANT, WEEP HOLE
WI	WROUGHT IRON
WL	WATER LEVEL
WLD	WELDED
WM	WIRE MESH
WP	WEATHERPROOF
WS	WATERSTOP, WATER SURFACE
WSCT	WAINSCOT
WT	WEIGHT, WATER TIGHT
WTHP	WATERPROOF, WORKING POINT
WWF	WELDED WIRE FABRIC
XP	EXPLOSION-PROOF
XS	EXTRA STRONG
XSECT	CROSS SECTION
XXS	DOUBLE EXTRA STRONG
YH	YARD HYDRANT
YS	YIELD STRENGTH

GENERAL NOTES:

1. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
2. LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
3. ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION□"INC" MAY MEAN INCLUDED OR INCLUDING AND "REINF" MAY MEAN EITHER REINFORCE OR REINFORCING.
4. SEE GENERAL SYMBOLS, PROJECT PIPING SYSTEMS AND EQUIPMENT IDENTIFICATIONS SHEET FOR PROJECT-SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.

ISSUE	DATE	DESCRIPTION
A	5/5/2020	Issued for Bids

PROJECT MANAGER	TOM SVOBODA
CIVIL	B. WECKERLIN
STRUCTURAL	J. LENZ
ARCHITECT	S. HEANEY
MECHANICAL	J. LEWIS
ELECTRICAL	W. DAVIDSON
FIRE PROTECTION	A. NOWKA
PROJECT NUMBER	10173455

PROFESSIONAL MECHANICAL ENGINEER
THOMAS J. SVOBODA
E-15946
STATE OF NEBRASKA

HARRISBURG ANGB, PA
SOF CONSTRUCT SIMULATOR BAY / JET ENGINE MAINTENANCE SHOP ADDITION
PROJECT NO.: SHYQ192003

ABBREVIATIONS

0 1" 2"

FILENAME 00G-001.DWG
SCALE NONE

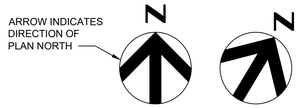
SHEET 00G-001

C:\pwworking\central\d0112848\800G-001.dwg, Plot, 5/12/2020 10:33:49 AM, CQUEEN

MATERIALS IN PLAN/SECTION

- ACOUSTICAL CEILING TILE □SECTION□
- ASPHALT □PLAN OR SMALL-SCALE SECTION□
- ASPHALT □LARGE-SCALE SECTION□
- BATT INSULATION □SECTION□
- BRICK MASONRY □PLAN AND/OR SECTION□
- CHECKERED PLATE □PLAN□
- CONCRETE □PLAN AND/OR SECTION□
- CONCRETE MASONRY □PLAN AND/OR SECTION□
- DEMOLITION □PLAN AND/OR SECTION□
- EARTH □SECTION□
- FILTER POINT MAT □PLAN□
- FINISHED WOOD □SECTION□
- GLULAM LUMBER □SECTION□
- GRANULAR FILL □SECTION□
- GRATING □SECTION□
- GRATING □PLAN□
- GROUT □SECTION□
- GYPSUM BOARD □SECTION□
- METAL □SECTION□
- ORIENTED STRAND BOARD □SECTION□
- PARTICLE BOARD □SECTION□
- PLYWOOD □LARGE-SCALE SECTION□
- PLYWOOD □SMALL-SCALE SECTION□
- PRECAST CONCRETE □PLAN AND/OR SECTION□
- RIGID INSULATION □SECTION□
- RIPRAP □PLAN AND/OR SECTION□
- SAND □SECTION□
- SOD □SECTION□
- WEEP JOINT MORTAR PROTECTION SYSTEM □SECTION□
- WOOD - CONTINUOUS □SECTION□
- WOOD BLOCKING □SECTION□

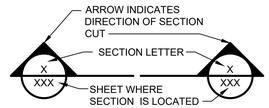
GENERAL SYMBOLOGY



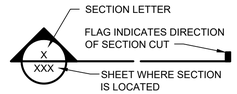
NORTH ARROW

PLAN
1/4" □ 1'-0"

PLAN TITLE

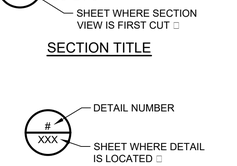


FULL BUILDING SECTION CUT MARKER



SECTION CUT MARKER

SECTION TITLE

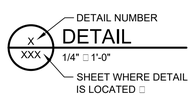


DETAIL MARKER

FOR REFERENCING DETAILS INCLUDED IN DRAWING SET.

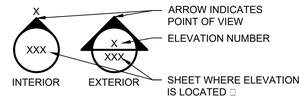
DETAIL MARKER

FOR REFERENCING DETAILS BOUND IN SPECIFICATIONS OR SEPARATE VOLUME.



DETAIL TITLE

□EXCEPTIONS WHERE THE SHEET NUMBER IS REPLACED BY A DASH □□
1□ FOR COMMON DETAILS, SECTIONS, ELEVATIONS OR DETAILS THAT ARE CUT OR CALLED OUT ON MULTIPLE SHEETS.
2□ SECTIONS, ELEVATIONS OR DETAILS THAT ARE LOCATED ON THE SAME SHEET THEY ARE CUT OR CALLED OUT ON.

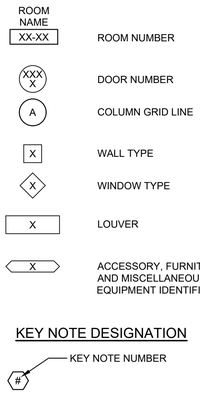


SINGLE ELEVATION OR PHOTO MARKER

MULTIPLE ELEVATION OR PHOTO MARKER

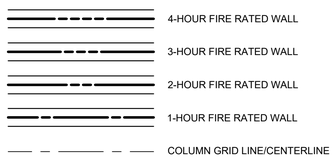
ELEVATION TITLE

ARCHITECTURAL



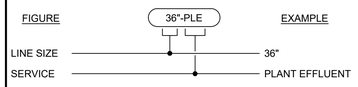
KEY NOTE DESIGNATION

GENERAL LINE SYMBOLOGY



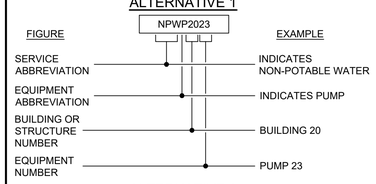
IDENTIFICATION SYMBOLOGY

PIPING

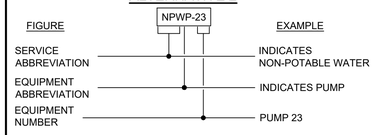


EQUIPMENT IDENTIFICATION

ALTERNATIVE 1



ALTERNATIVE 2



SHEET NAMING CONVENTION

AREA DESIGNATION

TO BE EDITED ON AN A PROJECT BASIS. TO BE DETERMINED BY THE PROJECT MANAGER, THEN ADDED TO THE GENERAL LEGEND.

EXAMPLE:
01 BUILDING OR AREA NAME
02 BUILDING OR AREA NAME
03 BUILDING OR AREA NAME

DISCIPLINE DESIGNATOR □ DISCIPLINE ORDER

G	GENERAL
V	SURVEYING/MAPPING
X	DEMOLITION
C	CIVIL
L	LANDSCAPING
U	MULTI-DISCIPLINE
S	STRUCTURAL
A	ARCHITECTURAL
D	PROCESS
M	MECHANICAL □HVAC□
P	PLUMBING
F	FIRE PROTECTION
E	ELECTRICAL
Y	INSTRUMENTATION

DRAWING TYPE DESIGNATOR

0	GENERAL □SYMBOLS, LEGENDS□
1	PLANS
2	ELEVATIONS
3	SECTIONS
4	LARGE SCALE VIEWS
5	DETAILS
6	SCHEDULES AND DIAGRAMS
8	PROFILES
9	3D REPRESENTATIONS

EXAMPLE

GRAVITY THICKENER ARCHITECTURAL SECTION, SHEET 01

0	2					AREA 02
AREA DESIGNATION						
		A				ARCHITECTURAL DISCIPLINE
DISCIPLINE DESIGNATOR						
			3			SECTION SHEET TYPE
SHEET TYPE DESIGNATOR						
				0	1	SHEET NUMBER 01
SHEET NUMBER						
0	2	A	3	0	1	
SAMPLE SHEET NUMBER						

GENERAL NOTES:

1. THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

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FIRE PROTECTION	A. NOWKA
PROJECT NUMBER	10173455

THOMAS J. SVOBODA E-15946 PROFESSIONAL MECHANICAL ENGINEER STATE OF NEBRASKA 5-5-2020

HARRISBURG ANGB, PA
SOF CONSTRUCT SIMULATOR BAY /
JET ENGINE MAINTENANCE SHOP ADDITION
PROJECT NO.: SHYQ192003

GENERAL LEGEND

0 1" 2"

FILENAME 00G-001.DWG
SCALE NONE

SHEET 00G-002

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FIRE PROTECTION / LIFE SAFETY CODE ANALYSIS
THE SCOPE OF WORK INCLUDES AN BUILDING ADDITION TO BUILDING 82. THE EXISTING BUILDING UTILITIES WILL BE EXTENDED TO THE THE ADDITION TO SERVE THE NEW AREAS. THE PROJECT ADDITION IS FOR THE OPERATION OF A NEW LOCKHEED MARTIN C-130J FLIGHT SIMULATOR. THE BUILDING WILL TREATED AS A SINGLE BUILDING. THE 35 PERCENT DESIGN DELIVERABLE WAS SEPTEMBER OF 2019. PER UFC 1-200-01 1-5 THIS DATE SETS THE APPLICABLE STANDARDS FOR THE PROJECT. ALL AREAS ARE REQUIRED TO COMPLY WITH NEW CODE REQUIREMENTS.

REFERENCED CODES AND STANDARDS:
AIR FORCE OCCUPATIONAL SAFETY AND HEALTH STANDARD
AFMAN 91-203 AIR FORCE OCCUPATIONAL SAFETY, FIRE AND HEALTH STANDARDS

UNIFIED FACILITIES CRITERIA (UFC)
UFC 1-200-01 (JUNE 20, 2016, CHANGE 2, NOV 1, 2018) DOD BUILDING CODE (GENERAL REQUIREMENTS)
UFC 3-230-01 (NOV 1, 2012, CHANGE 2, JULY 1, 2014) WATER STORAGE, DISTRIBUTION AND TRANSMISSION
UFC 3-600-01 (AUGUST 8, 2016, CHANGE 3, MAY 10, 2019) FIRE PROTECTION ENGINEERING FOR FACILITIES
UFC 4-010-01 (DECEMBER 12, 2018) DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS
UFC 4-021-01 (APRIL 9, 2008) DESIGN AND O&M: MASS NOTIFICATION SYSTEMS
UFC 4-021-01 (OCTOBER 25, 2018) ECB - NEW REQUIREMENTS FOR VISUAL NOTIFICATION FOR MASS NOTIFICATION SYSTEMS
AF ETL 01-18 (OCT 14, 2001) ELECTRONIC EQUIPMENT INSTALLATION
ANG ETL 01-1-1 (2004) AIR NATIONAL GUARD DESIGN POLICY
ANG ETL 15-01-03 (MAY 01, 2015) FIRE PROTECTION DESIGN GUIDANCE

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
NFPA 1 FIRE CODE, 2018 EDITION
NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2018 EDITION
NFPA 13 STANDARD FOR THE INSTALLATION OF AUTOMATIC SPRINKLERS, 2019 EDITION
NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2019 EDITION
NFPA 51B STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK, 2019 EDITION
NFPA 54 NATIONAL FUEL GAS CODE, 2018 EDITION
NFPA 70 NATIONAL ELECTRIC CODE, 2017 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE, 2019 EDITION
NFPA 75 PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT, 2017 EDITION
NFPA 76 PROTECTION OF TELECOMMUNICATION FACILITIES, 2016 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2019 EDITION
NFPA 90A STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS, 2018 EDITION
NFPA 101 LIFE SAFETY CODE, 2018 EDITION.
NFPA 170 FIRE SAFETY SYMBOLS, 2018 EDITION
NFPA 220 STANDARD ON TYPES OF BUILDING CONSTRUCTION, 2018 EDITION
NFPA 241 SAFEGUARDS DURING CONSTRUCTION, 2019 EDITION
NFPA 291 RECOMMEND PRACTICE FOR FIRE FLOW TESTING AND MARKING OF HYDRANTS, 2019 EDITION
NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT, 2015 EDITION

OTHER REFERENCES
INTERNATIONAL CODE COUNCIL, INTERNATIONAL BUILDING CODE (IBC) 2015 EDITION (AS MODIFIED BY UFC 1-200-01)
OSHA STANDARD 1910.1000 OCCUPATIONAL SAFETY AND HEALTH STANDARDS, TOXIC AND HAZARDOUS SUBSTANCES
C-1300J MAINTENANCE AND AIRCREW TRAINING SYSTEMS (MATS) III - CDRL 1008 TRAINING FACILITIES REPORT,
EC/EM WEAPON SYSTEMS TRAINER (WST) #14 HARRISBURG AIR NATIONAL GUARD (ANG) REV - 24 JULY 2019

IBC CHAPTER 3 AND UFC 3-600-01 APPLY. UFC 1-200-01 § 2-3
IBC APPLIES TO OCCUPANCY CLASSIFICATION AS IT RELATES TO BUILDING HEIGHT, BUILDING AREA, BUILDING SEPARATION AND OCCUPANCY SEPARATION. UFC 3-600-01 § 3-2.1.2
- IBC OCCUPANCY CLASSIFICATIONS - MIXED USE AND OCCUPANCY - NON-SEPARATED OCCUPANCY: IBC § 508.3
  - GROUP B BUSINESS IBC § 304 (BUSINESS)
  - GROUP F-1 MODERATE HAZARD FACTORY INDUSTRIAL IBC § 306 (FACTORY)

USE AND OCCUPANCY CLASSIFICATION:

NFPA 101 APPLIES TO OCCUPANCY CLASSIFICATION AS IT RELATES TO FIRE/SMOKE RESISTANCE RATING OF INTERIOR NON-LOAD BEARING PARTITIONS (OTHER THAN OCCUPANCY SEPARATION) INTERIOR FINISH, FIRE PROTECTION FEATURES AND MEANS OF EGRESS. UFC 3-600-01 § 3-3.1.2
- NFPA OCCUPANCY CLASSIFICATIONS - MIXED OCCUPANCIES: NFPA 101 § 6.1.14.3
  - NEW BUSINESS NFPA 101 CHAPTER 38
  - INDUSTRIAL OCCUPANCIES ORDINARY HAZARD NFPA 101 CHAPTER 40

GENERAL BUILDING HEIGHTS AND AREAS:
IBC CHAPTER 5 AND UFC 3-600-01 APPLY. UFC 1-200-01 § 2-5
- TYPE IIB CONSTRUCTION (IBC) - (000) PER NFPA 220 IBC § 602 & TABLE 601
- BUILDING IS FULLY PROTECTED WITH AUTOMATIC SPRINKLERS.
- ALLOWABLE GROSS SQUARE FEET OF BUILDING:46500 GSF
- ACTUAL EXITING BUILDING 82 BUILDING AREA: 3,497 SF: LEVEL ONE: 3,497 SF; LEVEL TWO: N/A IBC § 503 & 504
- ACTUAL NEW BUILDING AREA: 4,964 SF: LEVEL ONE: 3,923 SF; LEVEL TWO: 1,041 SF IBC § 503 & 504
- TOTAL BUILDING AREA (NEW AND EXISTING) 8,461 SF
- ALLOWABLE HEIGHT: 75 FT AND 3 STORIES (SPRINKLED GROUP B, AND F-1 BUILDINGS) TABLE 504.3 & IBC § 504.4
- ACTUAL BUILDING HEIGHT AND STORIES: 45 FT AND 2 STORIES
- NO BUILDING AREA FRONTAGE INCREASE REQUIRED OR PROVIDED PER IBC 506.2.4. IBC § 506 BUILDING AREA

TYPES OF CONSTRUCTION:
IBC CHAPTER 6 AND UFC 3-600-01 APPLY. UFC 1-200-01 § 2-6
- TYPE IIB CONSTRUCTION (IBC) - (000) PER NFPA 220 IBC § 602 & TABLE 601

REQUIRED STRUCTURAL ELEMENTS:
- STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS, AND TRUSSES): 0 HOUR
- BEARING WALLS - EXTERIOR SEPARATION DISTANCE >30 FT: 0 HOUR
- BEARING WALLS - INTERIOR: 0 HOUR
- NON-BEARING WALLS - EXTERIOR SEPARATION DISTANCE >30 FT: 0 HOUR
- NON-BEARING WALLS & PARTITIONS - INTERIOR: 0 HOUR
- FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS): 0 HOUR
- ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS): 0 HOUR

FIRE AND SMOKE PROTECTION FEATURES:
IBC CHAPTER 7 AND UFC 3-600-01 APPLY UFC 1-200-01 § 2-7
CONFORM TO THE REQUIREMENTS OF NFPA 101 CHAPTER 8, EXCEPT WHERE IBC CHAPTERS 5 AND 6 SPECIFICALLY REFERENCE IBC CHAPTER 7. UFC 3-600-01 § 7-1

ROOM SEPARATION:
- A SMOKE PARTITON WILL BE PROVIDED TO SEPARATE AN AREA HAVING A DEGREE OF HAZARD GREATER THAN THAT NORMAL TO THE GENERAL OCCUPANCY WHERE AUTOMATIC SPRINKLER PROTECTION IS PROVIDED. NFPA 101 § 8,7,1,2 (1), 38.3.2.1
- APPLICABLE AREAS: JANITOR CLOSETS, TOOL ROOMS, STORAGE ROOMS AND MECHANICAL ROOMS

INTERIOR FINISHES:
USE UFC 3-600-01 AND UFC 3-120-10 IN LIEU OF IBC CHAPTER 8. UFC 1-200-01 § 2-8
CONFORM TO THE REQUIREMENTS OF NFPA 101 CHAPTER 10. UFC 3-600-01 § 8-1

OPENINGS AND PENETRATIONS:
THROUGH PENETRATIONS OF FIRE RESISTANCE RATED CONSTRUCTION PROTECTED BY AN APPROVED FIRE STOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479 REQUIRED. NFPA 101 § 8.3.5
IBC 714

FIRE PROTECTION SYSTEMS:
USE UFC 3-600-01 IN LIEU OF IBC CHAPTER 9. UFC 1-200-01 § 2-9

FIRE DEPARTMENT VEHICLE ACCESS (SEE CODE COMPLIANCE SITE PLAN)
- ONE MEANS OF PAVED ALL-WEATHER GROUND ACCESS TO ALLOW EMERGENCY VEHICLES UNIMPEDED ACCESS TO THE FACILITY WILL BE PROVIDED. UFC 3-600-01 § 9-1.1
- ALL-WEATHER PAVED ACCESS WILL START AT THE ROAD AND TERMINATE NO FARTHER THAN 33 FT FROM AN EXTERIOR DOOR ACCESSIBLE TO FIRE DEPARTMENT INGRESS. UFC 3-600-01 § 9-1.1
- DIMENSIONS OF FIRE LANES AND TURNAROUNDS WILL COMPLY WITH NFPA 1. UFC 3-600-01 § 9-1.3
- ALL-WEATHER GROUND ACCESS WILL BE LOCATED WITHIN 150 FT OF FIRE DEPARTMENT CONNECTIONS. UFC 3-600-01 § 9-1.4

FIRE FLOW FOR FACILITIES
- FIRE FLOW FOR SPRINKLERED FACILITIES MUST BE A MINIMUM OF 1,000 GPM AT 20 PSI. UFC 3-600-01 § 9-2.1
- FIRE FLOW IS INDEPENDENT OF SPRINKLER SYSTEM DEMAND. UFC 3-600-01 § 9-2.1

SERVICE MAINS AND LATERALS
- SERVICE MAINS AND SERVICE LATERALS MUST COMPLY WITH AWWA M31, NFPA 24 AND UFC 3-230-01. UFC 3-600-01 § 9-3.1.1
- SERVICE MAINS MUST BE SIZED TO CARRY FIRE FLOW AND DOMESTIC AND INDUSTRIAL DEMANDS. UFC 3-600-01 § 9-3.2.1
- SERVICE MAINS MUST NOT BE DEAD-ENDED AND MUST BE LOOPED TO PROVIDE AT LEAST 50 PERCENT OF THE REQUIRED FIRE FLOW IN CASE OF A SINGLE BREAK. UFC 3-600-01 § 9-3.2.2-3
- NOT MORE THAN 2 HYDRANTS CAN BE LOCATED ON A SERVICE LATERAL. UFC 3-600-01 § 9-3.3.1
- MINIMUM SERVICE LATERAL FOR SPRINKLER SYSTEMS MUST NOT BE LESS THAN 6 IN. UFC 3-600-01 § 9-3.3.2
- MINIMUM RESIDUAL PRESSURE IN A SERVICE LATERAL MUST NOT BE LESS THAN 20 PSI AT THE GREATER OF FIRE FLOW OR SPRINKLER SYSTEM DEMAND. UFC 3-600-01 § 9-3.3.3

FIRE HYDRANT PLACEMENT AND COVERAGE (SEE CODE COMPLIANCE SITE PLAN)
- HYDRANTS WILL NOT BE LOCATED LESS THAN 40 FT. FROM BUILDINGS. NFPA 24 § 7.2.3
- HYRANTS MUST BE INSTALLED ADJACENT TO PAVED AREAS, ACCESSIBLE TO FIRE DEPARTMENT APPARATUS. UFC 3-600-01 § 9-3.5.7(B)
- BOLLARDS, FENCING, LANDSCAPING AND SIMILAR OBSTRUCTIONS WILL BE LOCATED AT LEAST 24 IN FROM HYDRANTS. UFC 3-600-01 § 9-3.5.7(G)
- ALL PARTS OF THE FACILITY EXTERIOR MUST BE WITHIN 350 FT OF A HYDRANT WITH CONSIDERATION GIVEN TO ACCESSIBILITY AND OBSTRUCTIONS (INCLUDING FENCES) UFC 3-600-01 § 9-3.5.8.2
- AT LEAST ONE HYDRANT MUST BE LOCATED WITHIN 150 FT OF THE FIRE DEPARTMENT CONNECTION. UFC 3-600-01 § 9-3.5.8.4
- EXTERIOR STORAGE AND MILITARY/TACTICAL EQUIPMENT/VEHICLE PARKING MUST BE PROVIDED WITH HYDRANTS SPACED AT 300 FT MAXIMUM.

AUTOMATIC SPRINKLER PROTECTION:
- AUTOMATIC SPRINKLER PROTECTION IS REQUIRED THROUGHOUT.
  - AUTOMATIC SPRINKLER PROTECTION IS REQUIRED FOR SINGLE STORY TYPE I OR II CONSTRUCTION EXCEEDING 15,000 SQFT. UFC 3-600-01 § 9-7.2.1.1
  - ALL WATER BASED SYSTEM MUST HAVE TEST VALVES LOCATED DOWNSTREAM OF THE BACKFLOW PREVENTER WATER SUPPLY REQUIREMENTS: UFC 3-600-01 § 9.6.6.5.1
    FIRE HYDRANT FLOW TEST: CURRENT: STATIC: 54 PSI
    RESIDUAL: 43 PSI
    FLOW: 1,048 GPM
    DATE: 06-25-2019
    SOURCE: HDR INC.

FIRE FLOW:
THE FLOW HYDRANT WAS LOCATED EAST OF BUILDING 81:WEST CORNER OF BOX CAR ROAD AND OLMSTEAD BLVD: THE GAUGE HYDRANT WAS LOCATED EAST OF BUILDING 79 :WEST SIDE OF OLMSTEAD BLVD: PRELIMINARY SPRINKLER SYSTEM CALCULATIONS INDICATE THAT THE EXISTING WATER SUPPLY WILL PROVIDE ADEQUATE WATER PRESSURE AND FLOW FOR THE ANTICIPATED SPRINKLER SYSTEM

STANDPIPE SYSTEMS
- STANDPIPE SYSTEM IS NOT REQUIRED.
  - THE BUILDING DOES NOT EXCEED 4 STORIES. UFC 3-600-01 § 9-10.2.1
  - THE DISTANCE FROM EXTERIOR DOORS TO ANY PORTION OF THE BUILDING DOES NOT EXCEED 450 FT. UFC 3-600-01 § 9-10.2.2

PORTABLE FIRE EXTINGUISHERS
- GENERAL PURPOSE FIRE EXTINGUISHERS ARE NOT REQUIRED FOR FULLY SPRINKLERED BUILDINGS, EXCEPT FOR SPECIAL USES. HARRISBURG ANG FIRE DEPARTMENT REQUESTS THAT EXTINGUISHER BE PROVIDED. UFC 3-600-01 § 9-17.1
- PORTABLE FIRE EXTINGUISHERS WILL BE LOCATED IN ACCORDANCE WITH NFPA 10. UFC 3-600-01 § 9-17.2.1
- CLEAN AGENT EXTINGUISHERS WILL BE PROVIDED IN ELECTRONIC EQUIPMENT AREAS UFC 3-600-01 § 9-17.2.2
- MECHANICAL ROOMS WILL HAVE BRACKET MOUNTED FIRE EXTINGUISHERS. UFC 3-600-01 § 9-17.3.2

SMOKE CONTROL
- NOT REQUIRED, (UFC 3-600-01, NFPA 92)

SMOKE DETECTION
- SMOKE DETECTOR ABOVE FIRE ALARM CONTROL UNIT, NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDERS, AND SUPERVISING STATION TRANSMITTING EQUIPMENT REQUIRED (NFPA 72, SECTION 10.4.4)
- DUCT SMOKE DETECTION ON AIR HANDLING UNITS GREATER THAN 2,000 CFM SUPPLY AIR CAPACITY REQUIRED NFPA 90A § 6.4.2.1(1)
- FULL AREA SMOKE DETECTION NOT REQUIRED UFC 3-600-01 § 9-18.5
- ULTRA-SENSITIVE SMOKE DETECTION (VESDA) IN SIMULATOR BAY.

FIRE ALARM AND MASS NOTIFICATION SYSTEM (MNS)
FIRE ALARM SYSTEM IS REQUIRED THROUGHOUT. NFPA 101 § 38.3.4.1
- BUSINESS OCCUPANCY - FIRE ALARM REQUIRED FOR OCCUPANT LOAD > 300 PERSONS. OR WITH MORE THAN 50 OCCUPANTS ABOVE OR BELOW LEVEL OF EXIT DISCHARGE.

- MASS NOTIFICIATION SYSTEM IS REQUIRED THROUGHOUT.
  - BUILDING TO BE INHABITED (ROUTINELY OCCUPIED BY 11 OR MORE OCCUPANTS). UFC 4-011 § 1-8
- FIRE ALARM SYSTEM TO BE INSTALL IN ACCORDANCE WITH UFC-3-600-01, NFPA 70, NFPA 72 AND ABA. UFC 3-600-01 § 9-18.3.1
- MASS NOTIFICIATION SYSTEM TO BE INSTALLED IN ACCORDANCE WITH UFC 4-021-01. UFC 3-600-01 § 9-18.4
- ANALOG / ADDRESSABLE FIRE ALARM SYSTEM WILL BE PROVIDED. UFC 3-600-01 § 9-18.4
- REMOTE ANNUNCIATOR PROVIDED AT DESIGNATED FIRE DEPARTMENT ENTRANCE. UFC 3-600-01 § 9-18.4.4
- MANUAL PULL STATION AT ALL EXIT DOORS. UFC 3-600-01 § 9-18.7.4
- SPRINKLER WATERFLOW MONITORING - SEPARATE ADDRESS FOR EACH WATERFLOW SWITCH. UFC 3-600-01 § 9-18.7.1
- SPRINKLER VALVE SUPERVISION - SEPARATE ADDRESS FOR EACH VALVE. UFC 3-600-01 § 9-18.7.3
- NOTIFICIATION TO BE PROVIDED THROUGHOUT ENTIRE BUILDING. UFC 3-600-01 § 9-18.6.1
- MASS NOTIFICATION SYSTEM PROVIDED WHERE OCCUPANT LOAD IS 11 OR MORE PERSONS. UFC 4-010-01 § B-4.6
- LOCAL OPERATOR CONSOLE (LOC) INSTALLED SO OCCUPANTS DO NOT NEED TO TRAVEL MORE THAN 200 FT OR TRAVEL TO OTHER FLOORS TO ACCESS LOC. UFC 4-021-01 § 4-5.1
- VOICE INTELLIGIBILITY TO BE PROVIDED THROUGHOUT (CIS >0.8 OR STI > 0.70). UFC 4-021-01 § 4-6.1.2
  - AT ANY AREA WITHIN THE LARGE CAVERNOUS AREA WITHIN FLIGHT SIMULATOR BAY SHALL MAINTAIN NOT LESS THAN 0.6 CIS.
- THE FIRE ALARM EVACUATION SIGNAL WILL BROADCAST OVER THE MNS SYSTEM. UFC 3-600-01 § 9-18.1.2.1
- BREAKER LOCK WILL BE PROVIDED FOR FIRE ALARM AND MNS IAW UFC 3-520-01. UFC 3-600-01 § 9-18.11.1
- SURGE PROTECTION DEVICE WILL BE PROVIDED FOR ALL 120 VAC POWERED FIRE ALARM AND MNS EQUIPMENT. UFC 3-600-01 § 9-18.11.2
  PROVIDE FIRE ALARM SHUT DOWN OF HVLS FAN / DESTRATIFICATION FAN UPON FLOW SWITCH OPERATION.

MEANS OF EGRESS (SEE LIFE SAFETY PLANS):
USE UFC 3-600-01 IN LIEU OF IBC CHAPTER 10. UFC 1-200-01 § 2-10
- DO NOT USE IBC CHAPTER 10, EXCEPT WHERE REFERENCED BY ARCHITECTURAL BARRIERS ACT (ABA) STANDARDS.
- WHERE ABA STANDARDS REFERENCES PREVIOUS VERSIONS OF IBC, THE APPLICABLE REQUIREMENTS OF THE 2015 IBC ARE ACCPETABLE.

NFPA 101 EXIT ACCESS CORRIDORS
- WHERE AN APPROVED, SUPERVISED AUTOMATIC SPRINKLER SYSTEM IS PROVIDED THROUGHOUT, CORRIDORS NEED NOT BE PROTECTED WITH FIRE RATED CONSTRUCTION. NFPA 101 § 7.1.3.1 (2), 38.3.6.1.

ACCESS-CONTROLLED EGRESS DOOR ASSEMBLIES
- DOOR ASSEMBLIES IN THE MEANS OF EGRESS WILL BE PERMITTED TO BE EQUIPPED WITH ELECTRICAL LOCKING HARDWARE THAT PREVENTS EGRESS, PROVIDED THAT THE FOLLOWING ARE MET: NFPA 101 § 7.2.1.6.2
  - SENSOR WILL BE PROVIDED ON THE EGRESS SIDE, ARRANGED TO UNLOCK THE DOOR IN THE DIRECTION OF EGRESS UPON DETECTION OF APPROACHING OCCUPANT. NFPA 101 § 7.2.1.6.2(1)
  - DOOR LEAVE WILL AUTOMATICALLY UNLOCK IN THE DIRECTION OF TRAVEL UPON LOSS OF POWER TO THE SENSOR OR TO THE PART OF THE SYSTEM THAT LOCKS THE DOOR. NFPA 101 § 7.2.1.6.2(2)
  - DOOR LOCKS WILL BE ARRANGED TO UNLOCK IN THE DIRECTION OF EGRESS FROM A MANUAL RELEASE DEVICE COMPLYING WITH THE FOLLOWING: NFPA 101 § 7.2.1.6.2(3)
    - MANUAL RELEASE DEVICE WILL BE LOCATED ON THE EGRESS SIDE 40 IN TO 48 IN ABOVE THE FLOOR AND WITHIN 60 IN. OF THE SECURED DOOR OPENING.
    - THE MANUAL RELEASE DEVICE WILL BE READILY ACCESSIBLE AND CLEARLY IDENTIFIED BY A SIGN THAT READS "PUSH TO EXIT".
    - WHEN OPERATED, THE MANUAL RELEASE DEVICE WILL RESULT IN DIRECT INTERRUPTION OF POWER TO THE LOCK, INDEPENDENT OF LOCKING SYSTEM ELECTRONICS.
  - ACTIVATION OF THE BUILDING SPRINKLER SYSTEM OR FIRE PROTECTION SIGNALING SYSTEM WILL UNLOCK THE EGRESS DOORS IN THE DIRECTION OF EGRESS AND THEY WILL REMAIN UNLOCKED UNTIL THE FIRE PROTECTIVE SIGNALING SYSTEM IS MANUALLY RESET. NFPA 101 § 7.2.1.6.2(6)
  - THE EGRESS SIDE OF ACCESS-CONTROLLED EGRESS DOORS WILL BE PROVIDED WITH EMERGENCY LIGHTING IN ACCORDANCE WITH NFPA 101 § 7.9. NFPA 101 § 7.2.1.6.2(7)

DOOR LEAF SWING DIRECTION
- DOORS WILL SWING IN THE DIRECTION OF TRAVEL WHERE SERVING MORE THAN 50 PERSONS. NFPA 101 § 7.2.1.4.2 (1)

DOOR LEAF ENCROACHMENT
- DOOR LEAVES SWINGING INTO THE THE MEANS OF EGRESS WILL LEAVE NOT LESS THAN ONE HALF OF THE REQUIRED EGRESS WIDTH. NFPA 101 § 7.2.1.4.3.1

OCCUPANCY LOAD FACTORS (SEE LIFE SAFETY PLAN FOR ACTUAL OCCUPANT LOADS)
- ASSEMBLY USE: 15 SQ FT/PERSON GROSS FLOOR AREA NFPA 101 § 7.3.1.2
- BUSINESS USE: 150 SQ FT/PERSON GROSS FLOOR AREA NFPA 101 § 7.3.1.2
- MECHANICAL/ELECTRICAL ROOMS: 500 SQ FT/PERSON GROSS FLOOR AREA UFC 3-600-01, TABLE 10-1

REMOTENESS OF EXITS
- MINIMUM DISTANCE SEPARATION BETWEEN EXITS AND EXIT ACCESS DOORS WILL BE NOT LESS THAN 1/3RD THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED. NFPA 101 § 7.5.1.3.3

TRAVEL DISTANCE TO AN EXIT (SEE LIFE SAFETY PLAN FOR PROVIDED)
- NEW BUSINESS (SPRINKLERED) ALLOWED FROM A SECOND FLOOR: 100 FT NFPA 101 § 38.2.4.5
- NEW BUSINESS (SPRINKLERED): 300 FT NFPA 101 § 38.2.6.3
- GENERAL INDUSTRIAL USE (SPRINKLERED): 250 FT NFPA 101 § 40.2.6.1

COMMON PATH OF TRAVEL (SEE LIFE SAFETY PLAN FOR PROVIDED)
- NEW BUSINESS (SPRINKLERED): 100 FT NFPA 101 § 38.2.5.3.1
- GENERAL INDUSTRIAL USE (SPRINKLERED): 100 FT NFPA 101 § 40.2.5.1

DEAD-END LIMITS (SEE LIFE SAFETY PLAN FOR PROVIDED)
- NEW BUSINESS (SPRINKLERED): 50 FT NFPA 101 § 38.2.5.2.1
- GENERAL INDUSTRIAL USE (SPRINKLERED): 50 FT NFPA 101 § 40.2.5.1

ILLUMINATION OF MEANS OF EGRESS (SEE LIFE SAFETY PLAN FOR PROVIDED)
- MINIMUM ILLUMINATION FOR MEANS OF EGRESS WILL BE AT LEAST 10 FC (MEASURED FROM WALKING SURFACE). NFPA 101 § 7.8.1.3 (1)
- MINIMUM ILLUMINATION FOR FLOORS AND OTHER WALKING SURFACES WILL BE AT LEAST 1 FC. NFPA 101 § 7.8.1.3 (2)

MARKING MEANS OF EGRESS (SEE LIFE SAFETY PLAN FOR PROVIDED)
- EXITS OTHER THAN MAIN EXTERIOR EXIT DOORS THAT ARE OBVIOUSLY AND CLEARLY IDENTIFIED AS EXITS, WILL BE MARKED BY APPROVED SIGNS. NFPA 101 § 7.10.1.2.1
- ACCESS TO EXITS WILL BE MARKED BY APPROVED, READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH EXITIS NOT READILY APPARENT TO OCCUPANTS. NFPA 101 § 7.10.1.5.1
- A SIGN WITH DIRECTIONAL INDICATOR SHOWING DIRECTION OF TRAVEL WILL BE PLACED IN LOCATIONS WHERE DIRECTION OF TRAVEL TO REACH THE NEAREST EXIT IS NOT APPARENT. NFPA 101 § 7.10.2.1
- EVERY EXIT OR DIRECTIONAL SIGN WILL BE ILLUMINATED BY A RELIABLE LIGHT SOURCE. NFPA 101 § 7.10.5.1

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CIVIL	B. WECKERLIN
STRUCTURAL	J. LENZ
ARCHITECT	S. HEANEY
MECHANICAL	J. LEWIS
ELECTRICAL	W. DAVIDSON
FIRE PROTECTION	A. NOWKA
PROJECT NUMBER	10173455

PROFESSIONAL FIRE PROTECTION ENGINEER ANGENY A. NOWKA 5-5-2020 STATE OF NEBRASKA

HARRISBURG ANGB, PA
SOF CONSTRUCT SIMULATOR BAY /
JET ENGINE MAINTENANCE SHOP ADDITION
PROJECT NO.: SHYQ192003

CODE ANALYSIS

0 1" 2"

FILENAME 00G-101.DWG
SCALE NO SCALE

SHEET 00G-101

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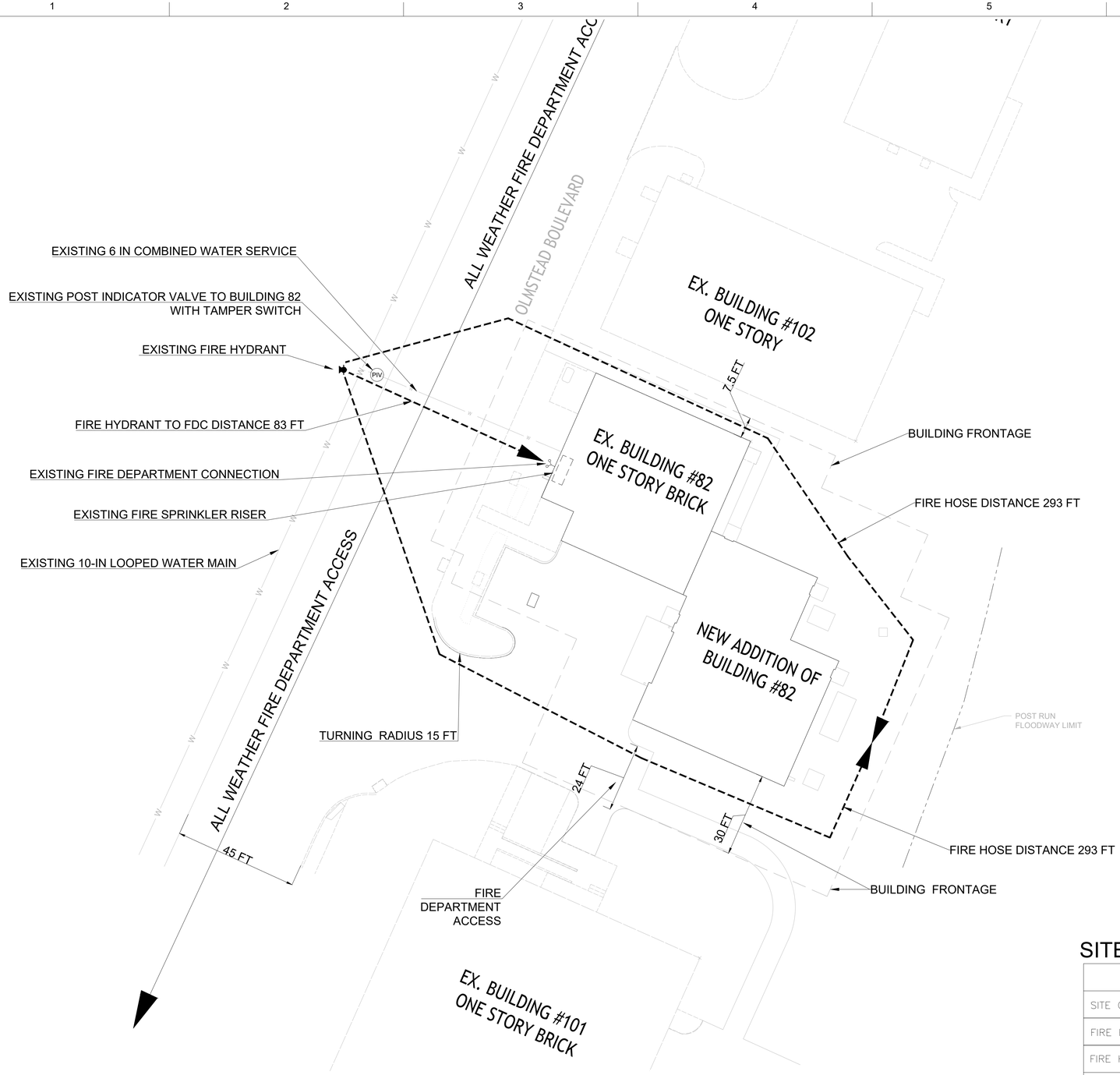

1 G-102 CODE COMPLIANCE SITE PLAN
SCALE: 1" = 20'

N

BUILDING CODE SUMMARY

UFC 1-200-01 (20 JUN 2016) WITH CHANGE 2
UFC 3-600-01 (8 AUG 2016) WITH CHANGE 3
2015 IBC AS AMENDED BY UFC 1-200-01
2015 IEBC AS AMENDED BY UFC 3-600-01
2018 NFPA 1 FIRE CODE
2018 NFPA 101 LIFE SAFETY CODE

SITE CODE COMPLIANCE SYMBOLS

- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION (FDC)
- PIV — POST INDICATOR VALVE (PIV)
- FIRE HOSE DISTANCE
- W — UNDERGROUND WATER MAIN

SITE CODE COMPLIANCE DISTANCES

	REQUIRED/ALLOWED	ACTUAL	UFC 3-600-01
SITE CODE COMPLIANCE REQUIREMENTS (UFC -3-600-01 1-7.2.4.2)			
FIRE HOSE COVERAGE	350 FEET	293 FEET	9-3.5.8.2
FIRE HYDRANT TO FDC	100 FEET	83 FEET	9-3.5.8.4
BUILDING FRONTAGE / PERIMETER	0 FEET (NO FRONTAGE REQUIRED)	30 FEET & 7.5 FEET	IBC - 506.2.4
FIRE DEPARTMENT ACCESS	20 FEET	24 FEET	NFPA 1 - 18.2.3.5.1.1

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PROFESSIONAL FIRE PROTECTION ENGINEER — ANSON — 5-5-2020 — STATE OF NEBRASKA

HARRISBURG ANGB, PA
SOF CONSTRUCT SIMULATOR BAY /
JET ENGINE MAINTENANCE SHOP ADDITION
PROJECT NO.: SHYQ192003

CODE COMPLIANCE SITE PLAN

0 1" 2"

FILENAME 00G-102.DWG
SCALE 1":20'

SHEET 00G-102

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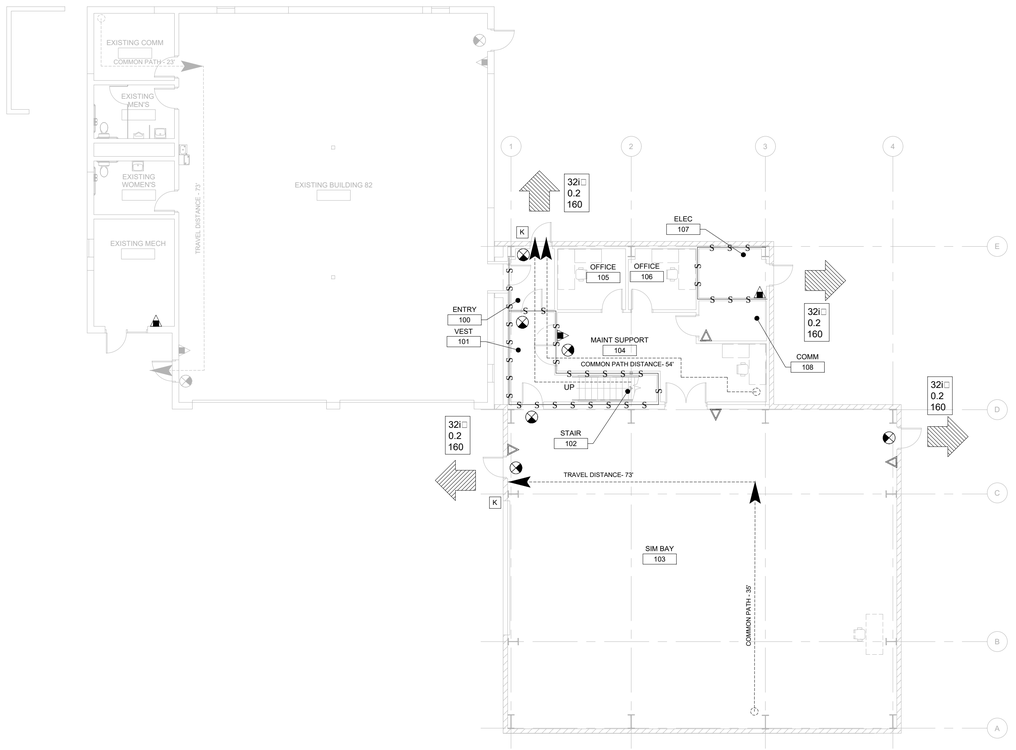
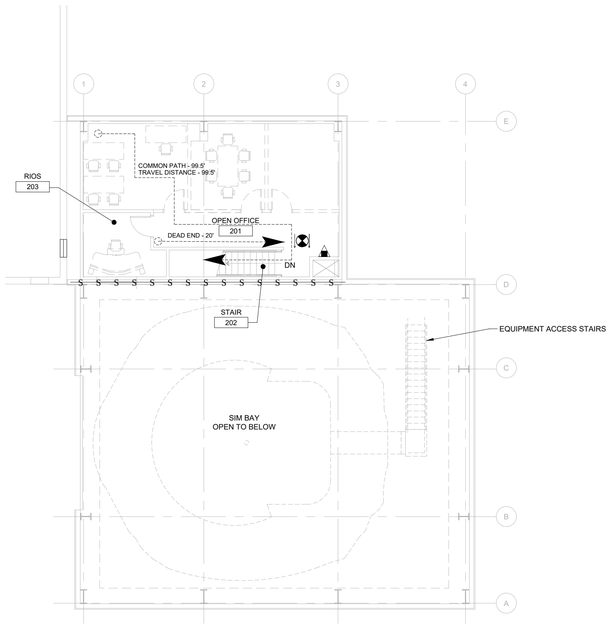


1 G-103 LIFE SAFETY PLAN-FIRST FLOOR
SCALE: 3/32" □ 1'- 0"



2 G-103 LIFE SAFETY PLAN- SECOND FLOOR
SCALE: 3/32" □ 1'- 0"

BUILDING CODE SUMMARY

UFC 1-200-01 (20 JUN 2016) WITH CHANGE 2
UFC 3-600-01 (8 AUG 2016) WITH CHANGE 3
2015 IBC AS AMENDED BY UFC 1-200-01
2015 IEBC AS AMENDED BY UFC 3-600-01
2018 NFPA 1 FIRE CODE
2018 NFPA 101 LIFE SAFETY CODE

PROJECT AREA

FLOOR	BUILDING AREA (GSF) EXISTING	BUILDING AREA (GSF) NEW
1st Level	3497	3923
2nd Level	N/A	1041
SUBTOTAL	3497	4964
TOTAL	8461	

OCCUPANCY:

MIXED USE / NON-SEPARATED WITH:
BUSINESS GROUP B (NEW BUSINESS USE)
FACTORY GROUP F-1 (GENERAL INDUSTRIAL USE)

LIFE SAFETY SYMBOLS

XX' — EGRESS TRAVEL DISTANCE / EGRESS DEAD END LENGTH

EXIT DISCHARGE

XXi□ / XXX / XXX — -EXIT WIDTH / -CAPACITY FACTOR / -EXIT CAPACITY

EXIT SIGN

K — KNOX BOX

FIRE EXTINGUISHER

CLEAN AGENT FIRE EXTINGUISHER

WALL RATING LEGEND

1 HOUR FIRE BARRIER WITH 3/4 HOUR DOORS

SMOKE PARTITION

EGRESS TRAVEL DISTANCE

	REQUIRED/ALLOWED	ACTUAL	NFPA 101 REF.
BUSINESS USE			
COMMON PATH (SECOND FLOOR)	100 FEET (SPRINKLERED)	99.5 FEET	38.2.5.3.1
SINGLE EXIT (SECOND FLOOR)	100 FEET (SPRINKLERED)	99.5 FEET	38.2.4.5 & .6
DEAD-END CORRIDOR (SECOND FLOOR)	50 FEET (SPRINKLERED)	20 FEET	38.2.5.2
TRAVEL DISTANCE (FIRST FLOOR)	300 FEET (SPRINKLERED)	54 FEET	38.2.6
COMMON PATH (FIRST FLOOR)	100 FEET (SPRINKLERED)	54 FEET	38.2.5.3.1
INDUSTRIAL USE			
COMMON PATH	100 FEET (SPRINKLERED)	51 FEET	40.2.5
TRAVEL DISTANCE	250 FEET (SPRINKLERED)	73 FEET	40.2.6
DEAD-END CORRIDOR	50 FEET (SPRINKLERED)	N/A	40.2.5
EXISTING INDUSTRIAL			
COMMON PATH	100 FEET (SPRINKLERED)	N/A	40.2.5
TRAVEL DISTANCE	250 FEET (SPRINKLERED)	73 FEET	40.2.5
DEAD-END CORRIDOR	50 FEET (SPRINKLERED)	N/A	42.2.5

OCCUPANT LOAD

ROOM	AREA TYPE	LOAD FACTOR	NET AREA	LOAD	NFPA 101 REF.
100	BUSINESS USE	150 SF/ OCC.	60	1	TABLE 7.3.1.2
101	BUSINESS USE	150 SF/ OCC.	103	1	TABLE 7.3.1.2
102	BUSINESS USE	150 SF/ OCC.	41	1	TABLE 7.3.1.2
103	GENERAL INDUSTRIAL USE	100 SF/ OCC.	2768	28	TABLE 7.3.1.2
104	BUSINESS USE	150 SF/ OCC.	297	2	TABLE 7.3.1.2
105	BUSINESS USE	150 SF/ OCC.	93	1	TABLE 7.3.1.2
106	BUSINESS USE	150 SF/ OCC.	91	1	TABLE 7.3.1.2
107	ELECTRICAL ROOM USE	500 SF/ OCC.	73	1	UFC 3-600-01 TABLE 10.1
108	ELECTRICAL ROOM USE	500 SF/ OCC.	61	1	UFC 3-600-01 TABLE 10.1
201	BUSINESS USE	150 SF/ OCC.	661	5	TABLE 7.3.1.2
202	BUSINESS USE	150 SF/ OCC.	115	1	TABLE 7.3.1.2
203	BUSINESS USE	150 SF/ OCC.	106	1	TABLE 7.3.1.2
TOTAL NET			4964	44	

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FIRE PROTECTION	A. NOWKA
PROJECT NUMBER	10173455

PROFESSIONAL FIRE PROTECTION ENGINEER — ANGON — 5-5-2020 — STATE OF NEBRASKA

HARRISBURG ANGB, PA
SOF CONSTRUCT SIMULATOR BAY /
JET ENGINE MAINTENANCE SHOP ADDITION
PROJECT NO.: SHYQ192003

LIFE SAFETY PLAN

0 1" 2"

FILENAME 00G-103
SCALE 3/32" □ 1'-0"

SHEET
00G-103

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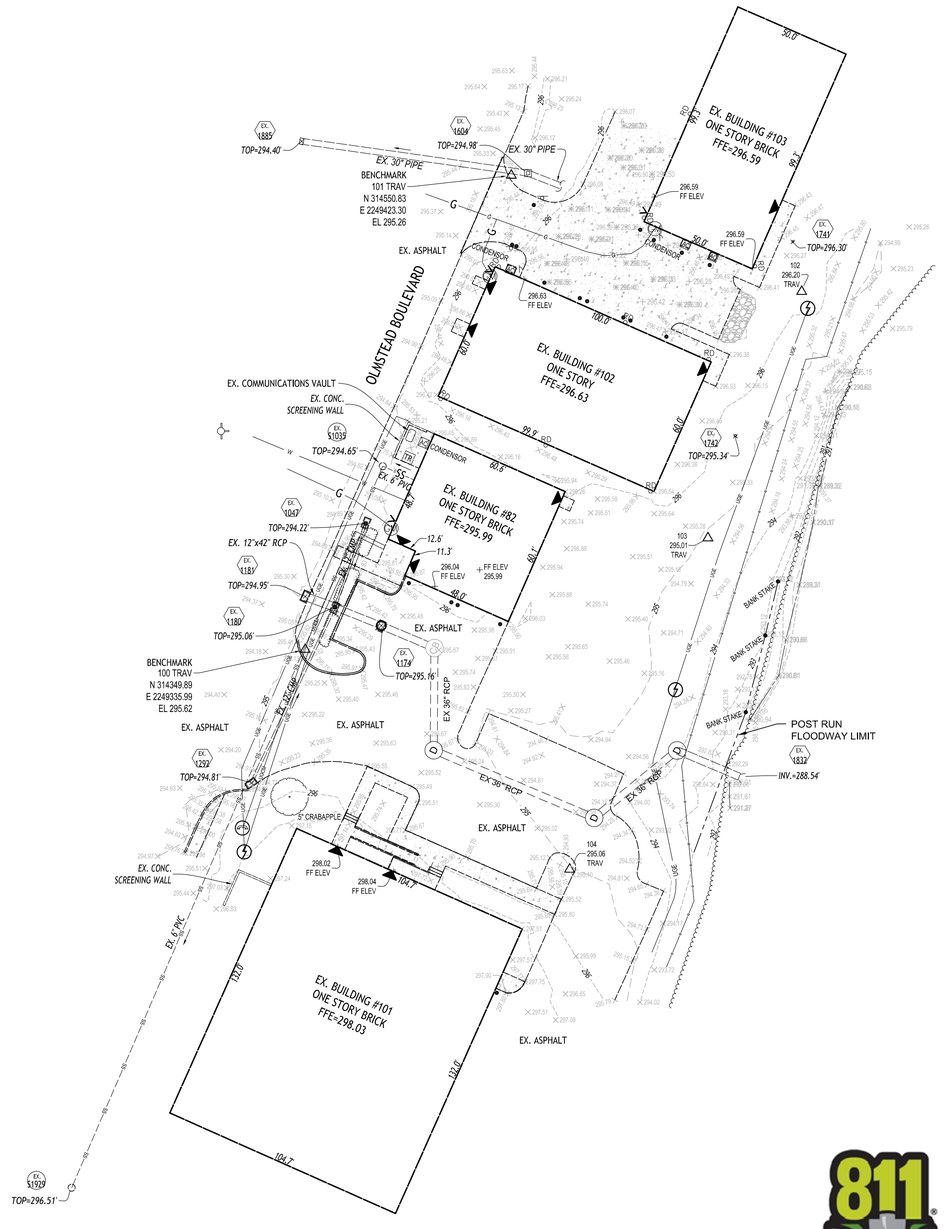
STORM SEWER AS-BUILT		
STRUCTURE	ELEVATION (FT.)	DESCRIPTION
EX. 1181	TOP = 294.95	EX. GRATE INLET
	INVERT IN = 289.20	30" RCP
	INVERT OUT = 288.98	12"X42" RCP TO EX. 1180
EX. 1180	TOP = 295.06	EX. GRATE INLET
	INVERT IN = 291.44	12" CMP FROM EX. 1292
	INVERT IN = 289.82	12" CMP FROM EX. 1047
	INVERT IN = 288.95	12"x42" RCP FROM EX. 1181
	INVERT OUT = 288.94	33" RCP TO EX. 1174
EX. 1174	TOP = 295.16	EX. GRATE INLET
	INVERT IN = 291.27	6" PVC FROM EX. BUILDING #82
	INVERT IN = 289.12	33" RCP FROM EX. 1180
	INVERT OUT = 289.09	36" RCP TO EX. 1832
EX. 1832	INVERT= 288.54	36" RCP OUTFALL
EX. 1292	TOP = 294.81	EX. GRATE INLET
	INVERT OUT = 292.14	12" CMP TO EX. 1180
EX. 1047	TOP = 294.22	EX. GRATE INLET
	INVERT OUT = 292.28	12" CMP TO EX. 1180
EX. 1885	TOP = 294.40	EX. GRATE INLET
	INVERT IN = 288.90	30" PIPE
	INVERT OUT = 288.60	30" PIPE TO EX. 1604
EX. 1604	TOP = 294.98	EX. GRATE INLET
	INVERT IN = 288.93	30" PIPE FROM EX. 1885
	INVERT OUT = 288.84	30" PIPE TO ??
EX. 1741	TOP = 296.30	EX. YARD INLET
	INVERT = 292.30	*BOTTOM OF STRUCTURE*
EX. 1742	TOP = 295.34	EX. YARD INLET
	INVERT= 291.99	*BOTTOM OF STRUCTURE*

SANITARY SEWER AS-BUILT		
STRUCTURE	ELEVATION (FT.)	DESCRIPTION
EX. S1035	TOP = 294.65	EX. SANITARY MANHOLE
	INVERT IN = 291.87	EX. 6" PVC FROM BUILDING #82
	INVERT OUT = 291.83	EX. 6" PVC TO EX. 1929
EX. S1929	TOP = 296.51	EX. SANITARY MANHOLE
	INVERT IN = 288.44	EX. 6" PVC FROM EX. 1035
	INVERT OUT = 288.36	EX. 6" PVC TOWARDS WEST



PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (NAD 83)

EXISTING LEGEND:

- EX. ELECTRIC MANHOLE
- EX. TRANSFORMER
- EX. UNDERGROUND ELECTRIC
- EX. COMMUNICATIONS MANHOLE
- EX. UNDERGROUND COMMUNICATIONS
- EX. NATURAL GAS METER
- EX. UNDERGROUND NATURAL GAS
- EX. FIRE HYDRANT
- EX. SIAMESE FIRE CONNECTION
- EX. SPIGOT
- EX. UNDERGROUND WATERLINE
- EX. ROOF DRAIN
- EX. STORM SEWER PIPE
- EX. SANITARY SEWER PIPE
- EX. AIR CONDITIONING UNIT (UNLESS NOTED OTHERWISE)
- EX. SIGN
- EX. BOLLARD
- EX. ENTRANCE
- EX. CHAINLINK PERIMETER FENCE
- EX. CONCRETE
- EX. RIP-RAP

GENERAL NOTE:

1. THE 36" STORM SEWER IN TOPOGRAPHIC SURVEY HAS BEEN REVISED TO SHOW THE PROPOSED 36" STORM SEWER MODIFICATIONS THAT ARE TO BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF THIS PROJECT.

SURVEY NOTES:

1. TOPOGRAPHIC SURVEY CONDUCTED BY GORDON, JULY, 2019.
   VERTICAL CONTROL: NAVD 88
   HORIZONTAL CONTROL: NAD 83
2. EXISTING UNDERGROUND UTILITY LOCATIONS ARE BASED ON FIELD LOCATIONS AND AVAILABLE RECORDS AND MAY NOT REPRESENT ALL UNDERGROUND UTILITIES OR SERVICE LINES.
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS NOT INTENDED TO SHOW ALL EASEMENTS THAT MAY AFFECT THE PROPERTY.
4. THE EXISTENCE OF HAZARDOUS WASTE, VEGETATED WETLANDS, OR TIDAL WETLANDS WAS NEITHER INVESTIGATED NOR CONFIRMED DURING THE PERFORMANCE OF THIS SURVEY.

811 Know what's below. Call before you dig.

Gordon
4501 Daly Drive
Chantilly, VA 20151
Phone: 703-263-1900
www.gordon.us.com

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF, W. ROSS DICKERSON, LS FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON _____ AND THAT THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

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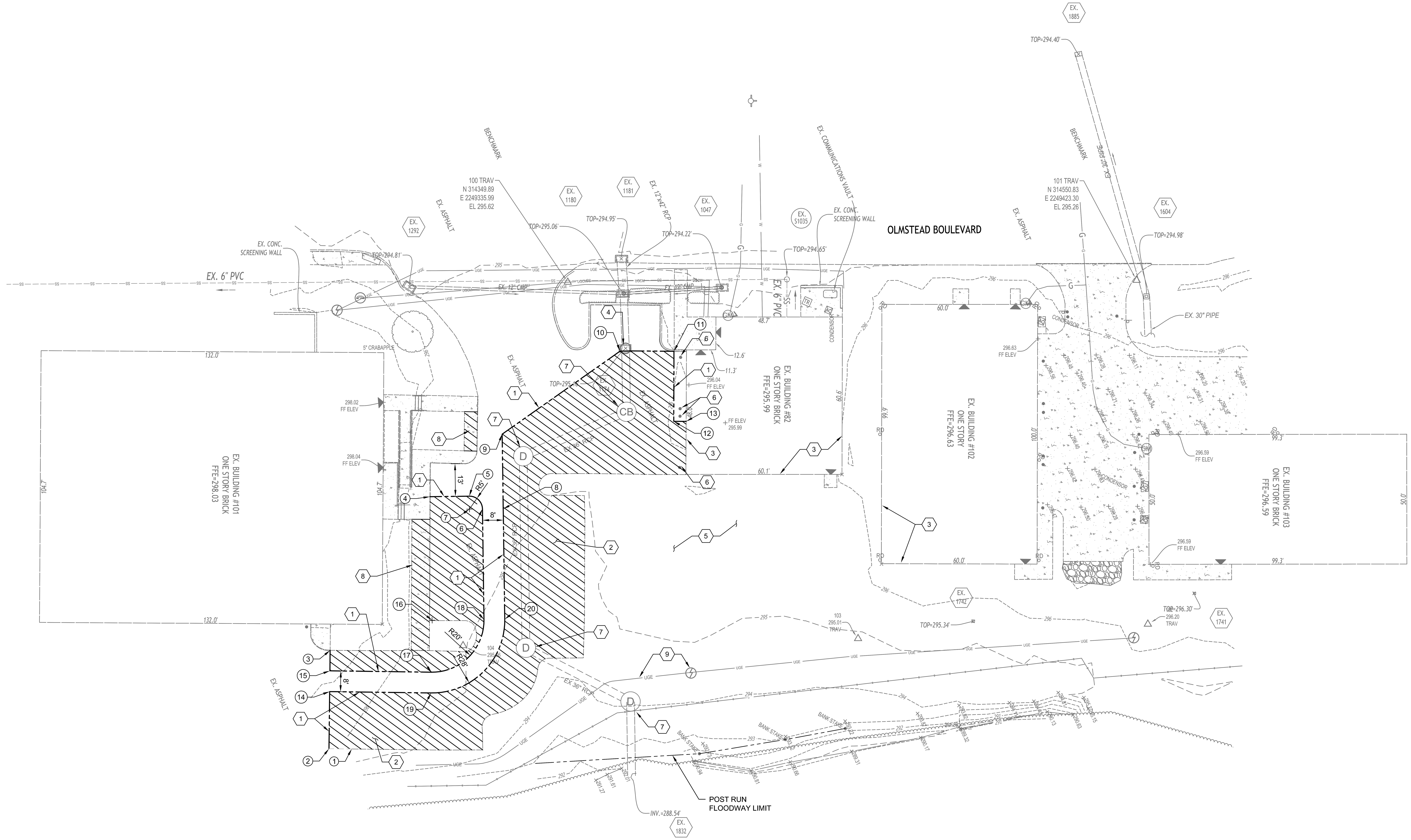
HARRISBURG ANGB, PA
SOF CONSTRUCT SIMULATOR BAY /
JET ENGINE MAINTENANCE SHOP ADDITION
PROJECT NO.: SHYQ192003

TOPOGRAPHIC SURVEY

0 1" 2"

FILENAME 00V-001.DWG
SCALE 1"=30'

SHEET **00V-001**



REMOVAL LEGEND:

- REMOVE PAVEMENT
- FULL DEPTH SAWCUT ASPHALT PAVEMENT

KEYNOTES: (#)

1. FULL DEPTH SAW CUT ASPHALT PAVEMENT.
2. REMOVE ASPHALT PAVEMENT.
3. PROTECT EXISTING STRUCTURE DURING CONSTRUCTION.
4. PROTECT EXISTING INLET DURING CONSTRUCTION.
5. CLEAR AND GRUB FOR CONSTRUCTION.
6. PROTECT EXISTING BOLLARD DURING CONSTRUCTION.
7. PROTECT EXISTING STORM SEWER MANHOLE DURING CONSTRUCTION.
8. FULL DEPTH SAWCUT AND REMOVE CONCRETE SIDEWALK.
9. PROTECT EXISTING UNDERGROUND ELECTRICAL.

GENERAL NOTES:

1. CONTRACTOR WILL COORDINATE THE LOCATION OF THE SOIL STOCKPILE ON BASE TO USE FOR EXCESS CUT MATERIALS PRIOR TO COMMENCING GRADING OPERATIONS.

SITE REMOVAL COORDINATE POINTS TABLE

POINT NO.	NORTHING	EASTING	DESCRIPTION
1	314201.52	2249467.20	SAWCUT
2	314193.53	2249463.58	SAWCUT
3	314209.17	2249429.07	SAWCUT
4	314268.13	2249390.30	SAWCUT
5	314282.10	2249396.19	POINT OF CURVATURE
6	314284.76	2249402.74	POINT OF TANGENCY
7	314280.15	2249400.80	5' RADIUS POINT
8	314292.10	2249405.92	SAWCUT
9	314303.29	2249379.40	SAWCUT
10	314357.67	2249368.38	SAWCUT
11	314376.70	2249376.74	SAWCUT
12	314365.78	2249401.43	SAWCUT
13	314370.15	2249403.36	SAWCUT
14	314202.60	2249443.53	SAWCUT
15	314205.91	2249436.25	SAWCUT
16	314249.76	2249434.22	SAWCUT
17	314241.49	2249452.42	SAWCUT
18	314268.19	2249441.99	SAWCUT
19	314238.18	2249459.71	SAWCUT
20	314275.56	2249445.11	SAWCUT

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ARCHITECT	S. HEANEY
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ELECTRICAL	W. DAVIDSON
FIRE PROTECTION	A. NOWKA
PROJECT NUMBER	10173455

PROFESSIONAL CIVIL ENGINEER
BRADLEY A. WECKERLIN
E-9380
STATE OF NEBRASKA
5/5/2020

HARRISBURG ANGB, PA
SOF CONSTRUCT SIMULATOR BAY /
JET ENGINE MAINTENANCE SHOP ADDITION
PROJECT NO.: SHYQ192003

SITE DEMOLITION PLAN

FILENAME 00X-101
SCALE 1"=20'
SHEET 00X-101

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CIVIL MAPPING SYMBOLOGY

- EMBANKMENT SLOPE (CUT)
- EMBANKMENT SLOPE (FILL)
- H:V EMBANKMENT SLOPE RIGHT ARROW RIGHT
- H:V EMBANKMENT SLOPE LEFT ARROW LEFT
- 123 SPOT ELEVATION/POINT #
- SURVEY BENCHMARK
- CP-X SURVEY CONTROL POINT
- HORIZONTAL CONTROL POINT
- VERTICAL CONTROL POINT
- SECTION CORNER MONUMENT
- SECTION CORNER NO MONUMENT
- X IDENTIFICATION AND APPROXIMATE LOCATION OF SOIL TEST HOLE
- X TEST PIT
- X SOIL BORING
- BUOY
- FLOW ARROW
- WATER LEVEL IN SECTION/PROFILE
- TIDE GAUGE
- EXISTING UTILITY POLE
- DOWNGUY
- J X EXTERIOR UTILITY JUNCTION BOX
- XXX INTERSTATE HIGHWAY SYMBOL
- XXX US HIGHWAY SYMBOL
- XXX STATE HIGHWAY SYMBOL
- HAY BALE SILT CHECK
- TEMPORARY SEDIMENT TRAP
- X PIEZOMETER
- RAIL SIGNAL
- RAIL SWITCH
- SIGN
- In TIRE TREDDLE
- TRAFFIC ARM WITH CARD READER
- TRAFFIC ARM MECHANICAL SWING

- CO CLEANOUT
- CULVERT END SYMBOL (WITH CULVERT SHOWN BETWEEN SYMBOLS)
- X FIRE HYDRANT
- F FUEL OIL METER
- F FUEL OIL MANHOLE
- F FUEL OIL VAULT
- GT GREASE TRAP
- GC GRIT CHAMBER
- HEADWALL
- I INDUSTRIAL WASTE WATER METER
- I INDUSTRIAL WASTE WATER MANHOLE
- G NATURAL GAS METER
- G NATURAL GAS RECEIVER
- G NATURAL GAS TRAP
- G NATURAL GAS LINE VAULT
- MW MONITORING WELL
- X POST INDICATOR VALVE
- PS X PUMP STATION
- S SANITARY MANHOLE
- ST SEPTIC TANK
- X TANK BELOW GROUND
- X TANK HORIZONTAL ABOVE GROUND
- X TANK VERTICAL ABOVE GROUND

- CB STORM CATCH BASIN
- CB STORM ROUND CATCH BASIN
- D STORM DRAINAGE MANHOLE
- WATER/AIR VENT
- W WATER BACKFLOW PREVENTER
- WATER BLOWOFF
- W WATER METER
- WS WATER SHUTOFF
- WS WATER SOFTENER
- W WATER VALVE VAULT
- VALVE

UTILITY/CIVIL LINE SYMBOLOGY

- UTILITY BENEATH STRUCTURE
- RAILROAD
- CENTERLINE
- PROPERTY LINE
- LIMITS OF CONSTRUCTION
- ROW
- EXISTING CONTOUR (MINOR)
- 25 EXISTING CONTOUR W/ELEVATION (MAJOR)
- EXISTING FENCE
- EXISTING VEGETATION/BRUSH LINE
- FENCE - BARB WIRE
- FENCE - CHAIN LINK
- FENCE - FIELD
- FENCE - OTHER
- FENCE - WOOD
- XX FENCE - WOVEN WIRE
- FLOOD LIMIT (100 YEAR)
- HIGHWAY GUARDRAIL
- NEW CONTOUR (MINOR)
- 25 NEW CONTOUR (MAJOR)

- FO FIBER OPTIC
- IW FUEL OIL
- G NATURAL GAS
- IW INDUSTRIAL WASTE WATER
- SS SANITARY SEWER
- SD STORM SEWER
- W DOMESTIC WATER
- NPW DOMESTIC WATER NON-POTABLE

811 Know what's below. Call before you dig.

GENERAL NOTES:

1. THIS IS A STANDARD CIVIL SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

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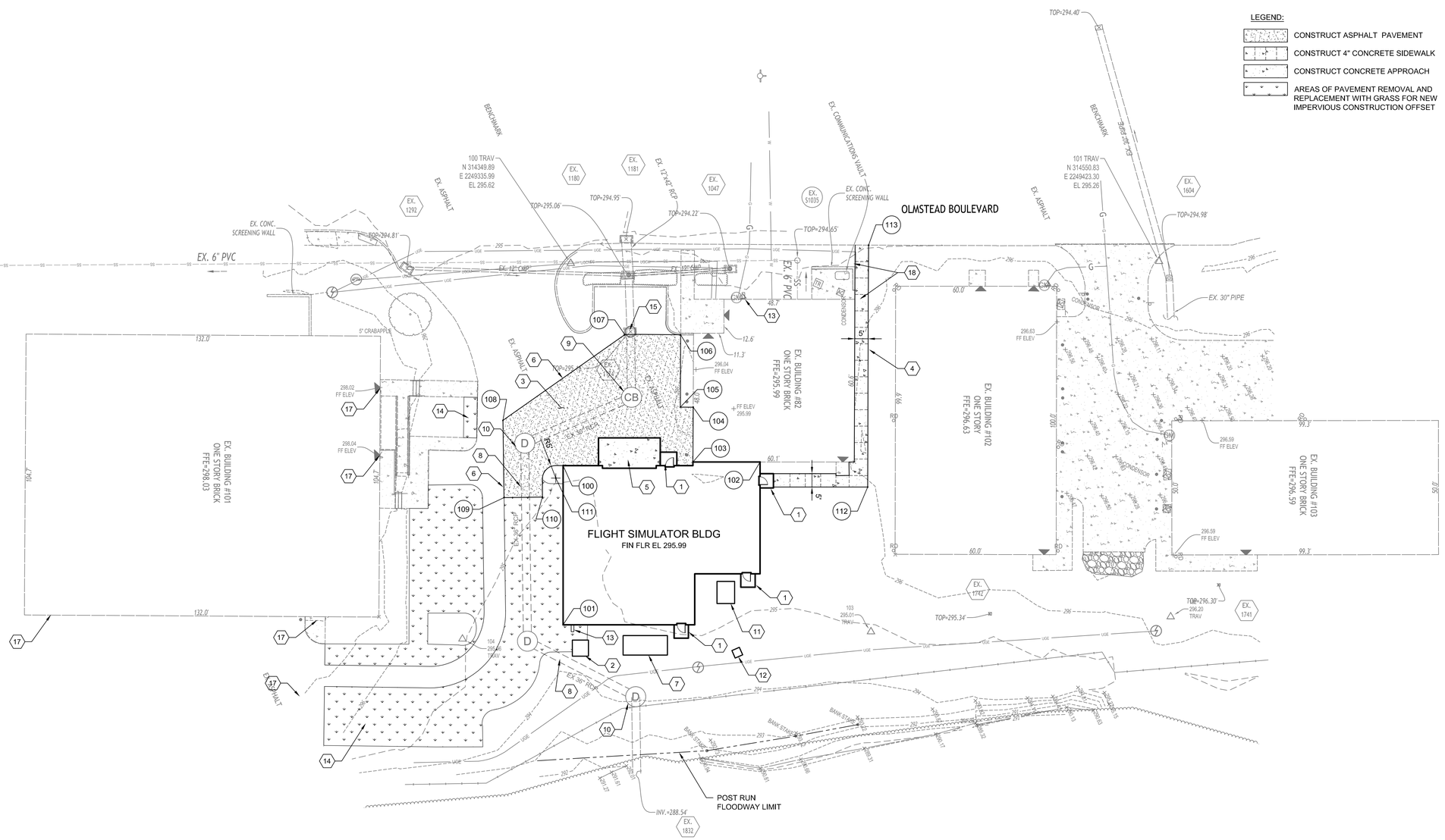
PROJECT NO.: SHYQ192003

CIVIL LEGEND

0 1" 2"

FILENAME 00G-002
SCALE NONE

SHEET 00C-001



LEGEND:

- CONSTRUCT ASPHALT PAVEMENT
- CONSTRUCT 4" CONCRETE SIDEWALK
- CONSTRUCT CONCRETE APPROACH
- AREAS OF PAVEMENT REMOVAL AND REPLACEMENT WITH GRASS FOR NEW IMPERVIOUS CONSTRUCTION OFFSET

NOTES:

1. THE GEOTECHNICAL MEMORANDUM DATED 23 MAY 2002, BY GANNETT FLEMING ENGINEERS AND PLANNERS LOCATED AFTER SECTION 31 00 00 IN THE PROJECT SPECIFICATIONS PROVIDES TO THE FOLLOWING ASPHALTIC CONCRETE MIX DESIGN STANDARDS THAT SHALL APPLY FOR THIS PROJECT:

   A. COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408 SPECIFICATIONS:

1. SECTION 305, BITUMINOUS CONCRETE BASE COURSE (BCBC)
2. SECTION 420, BITUMINOUS WEARING COURSE ID-2

KEYNOTES: (#)

1 CONSTRUCT STRUCTURAL STOOP, SEE STRUCTURAL PLANS FOR DETAILS.

2 CONCRETE EQUIPMENT PAD FOR SIMULATOR COOLING UNIT. COOLING UNIT TO BE PROVIDED BY OTHERS SEE DETAIL 5/00S-501.

3 CONSTRUCT 7 1/2" ASPHALT PAVEMENT WITH 12" SUBBASE, SEE DETAIL 1/00C-501.

4 CONSTRUCT 4" CONCRETE SIDEWALK, SEE DETAILS 2/00C-501 AND 3/00C-501.

5 CONSTRUCT CONCRETE APPROACH, SEE DETAIL 2/00S-501.

6 APPLY TACK COAT TO EXISTING ASPHALT PRIOR TO INSTALLING NEW ASPHALT PAVEMENT.

7 AHU-02 EQUIPMENT PAD, SEE DETAIL 5/00S-501.

8 PROTECT EXISTING STORM PIPES DURING CONSTRUCTION.

9 ADJUST EXISTING CATCH BASIN FRAME AND COVER TO GRADE.

10 ADJUST EXISTING MANHOLE FRAME AND COVER TO GRADE.

11 AHU-01 FOUNDATION PAD, SEE DETAIL 5/00S-501.

12 TRANSFORMER FOUNDATION PAD, SEE DETAIL 3/00S-503.

13 SPLASH BLOCK. SEE FIRE PROTECTION PLAN, SHEET 00FP-101.

14 SCARIFY SUBGRADE 12 INCHES IN DEPTH AND RE-COMPACT THE SOIL AS RECOMMENDED BY THE GEOTECHNICAL REPORT BT GANNETT FLEMMING ENGINEERS AND SURVEYORS TO ALLOW STORMWATER INFILTRATION AND MINIMIZE SETTLEMENT IN ALL AREAS WHERE EXISTING PAVEMENT HAS BEEN REMOVED AND IS TO BE SEEDED. FURNISH AND INSTALL 4" MINIMUM TOPSOIL, STARTER FERTILIZER, SEED AND MULCH IN THE AREAS WHERE PAVEMENT HAS BEEN PERMANENTLY REMOVED TO MITIGATE FOR NEW IMPERVIOUS CONSTRUCTION. COMPACT TOPSOIL TO MINIMIZE SETTLEMENT AND PONDING BUT TO STILL ALLOW STORMWATER INFILTRATION.

15 CONTRACTOR SHALL PROTECT THE EXISTING CATCH BASIN DURING CONSTRUCTION.

16 CONTRACTOR SHALL BLOCK ACCESS TO THE ACCESSIBLE PARKING STALL AND ASSOCIATED SIDEWALK FOR THE DURATION OF CONSTRUCTION.

17 THE CONTRACTOR SHALL NOT RESTRICT EMERGENCY INGRESS AND EGRESS TO BUILDING 101'S EXTERIOR DOORS, DOCK BAYS AND FIRE LANE.

18 CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF THE BURIED ELECTRICAL CONDUIT IN THE AREA OF THE SIDEWALK PRIOR TO CONSTRUCTION TO VERIFY THAT THERE ARE NO CONFLICTS.

SITE LAYOUT COORDINATE POINTS TABLE

POINT NO.	NORTHING	EASTING	DESCRIPTION
100	314317.05	2249403.83	BUILDING CORNER
101	314293.22	2249458.17	BUILDING CORNER
102	314384.74	2249432.06	BUILDING CORNER
103	314361.85	2249422.02	EDGE OF PAVEMENT
104	314370.15	2249403.36	EDGE OF PAVEMENT
105	314365.78	2249401.43	EDGE OF PAVEMENT
106	314376.69	2249376.76	EDGE OF PAVEMENT
107	314357.67	2249368.38	EDGE OF PAVEMENT
108	314303.29	2249379.40	EDGE OF PAVEMENT
109	314292.10	2249405.92	EDGE OF PAVEMENT
110	314305.27	2249411.48	EDGE OF PAVEMENT
111	314312.69	2249407.00	RADIUS POINT
112	314417.71	2249456.71	EDGE SIDEWALK
113	314454.21	2249374.27	EDGE SIDEWALK

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SITE LAYOUT PLAN

0 1" 2"

FILENAME 00C-101.dwg
SCALE 1"=20'

SHEET 00C-101

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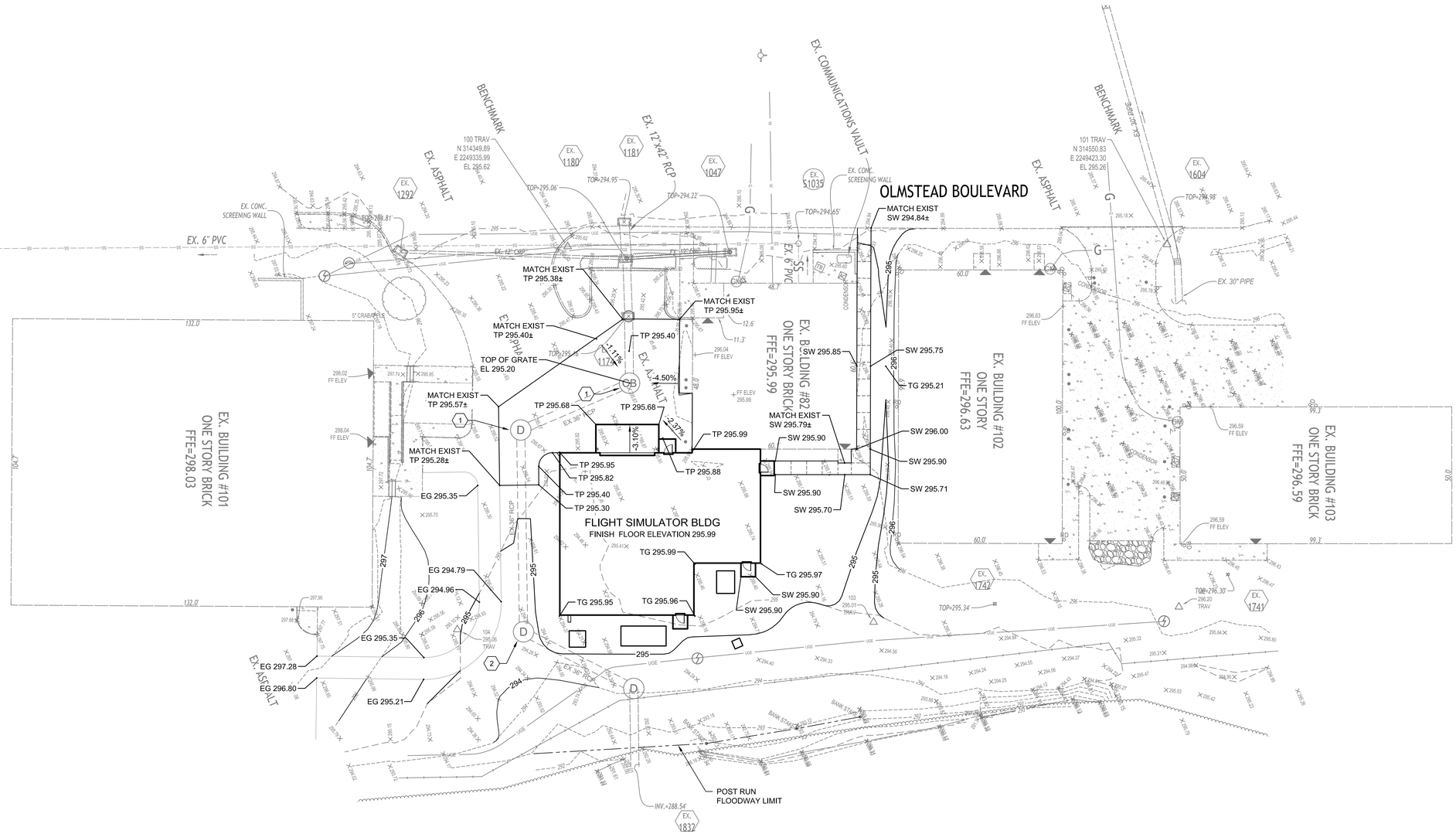

LEGEND:

EG	EXISTING GRADE
TC	TOP OF CURB
TP	TOP OF PAVEMENT
TG	TOP OF GRADE
SW	TOP OF SIDEWALK

GENERAL NOTES:

1. FLIGHT SIMULATOR BUILDING WILL HAVE AN 8" TALL INTERIOR CONCRETE CURB WHICH ALLOWS FOR FILL UP TO FINISHED FLOOR ELEVATION.

KEY NOTES: (#)

1 FIELD ADJUST MANHOLE RIM AND CATCH BASIN GRATE ELEVATIONS PRIOR TO CONSTRUCTION. ADJUST GRADING TO PROVIDE POSITIVE DRAINAGE TO GRATE INLETS AS REQUIRED AND ADJUST MANHOLE FRAMES TO GRADE AS REQUIRED.

2 PROTECT EXISTING MANHOLE FRAME AND GRATE DURING CONSTRUCTION. ADJUST FRAME HEIGHT TO PLACE RIM 6" ABOVE FINISH GRADE. POUR CONCRETE COLLAR TO RETAIN THE FRAME IN PLACE.

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PROJECT NO.: SHYQ192003

SITE GRADNG PLAN

0 1" 2"

FILENAME 00C-102.dwg
SCALE 1"=20'

SHEET 00C-102

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