COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES

HARRISBURG, PENNSYLVANIA

TOM WOLF, GOVERNOR

JOSEPH H. LEE, ACTING SECRETARY
DEPARTMENT OF GENERAL SERVICES

PROJECT NO. D.G.S. C-114-0006 PHASE 1
LATRINE IMPROVEMENTS
HICKORY RUN STATE PARK
WHITE HAVEN, CARBON COUNTY, PENNSYLVANIA

PROFESSIONAL / ARCHITECT
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MEP ENGINEERING CONSULTANT
H.F. LENZ COMPANY ENGINEERING
1407 SCALP AVENUE
JOHNSTOWN, PA

SHEET INDEX PAGE 1 OF 2

CODE APPROVALS

PA UCC BUILDING PERMIT - 12/17/2021
KIDDER TOWNSHIP LAND DEVELOPMENT - 10/17/2022
NPDES - 8/16/2022
CARBON COUNTY E & S CONTROL - 8/16/2022
CARBON COUNTY PCSM - 8/16/2022
PNDI - 11/10/2022
DEP - 5/24/2022
PHMC ARCHEOLOGICAL APPROVAL - 7/6/2020
PHMC HISTORICAL BUILDING APPROVAL - 7/6/2020

NOTES

PROJECT LOCATION MAP

VICINITY MAP

REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
TODD WOODWARD NO. RA-019014

PROFESSIONAL'S SIGNATURE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

COVER SHEET

DRAWN BY	DATE	SHEET No.
M STRENSKI	06/17/2022	CS-1
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T WOODWARD	AS NOTED	

FILE PATH: I:\723_Hickory Run\01 Archdesg\01_Revit\Hickory Run State Park Latrine Improvements - COVERSHEET.dwg
LAST SAVED: 2022.11.15 05:55 PM PLOTTED: 2022.11.15 05:56 PM PLOTTED BY: Megan M. Strenski

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES

HARRISBURG, PENNSYLVANIA

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SHEET INDEX PAGE 2 OF 2

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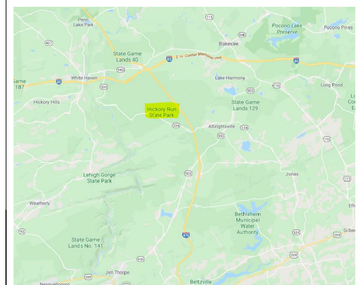
NOTES

PROJECT LOCATION MAP

VICINITY MAP



REGISTERED ARCHITECT
PENNSYLVANIA
TIMOTHY J. WOODWARD
No. RA-016804

PROFESSIONAL'S SIGNATURE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
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WHITE HAVEN, CARBON COUNTY, PA

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LAST SAVED: 2022.11.15 05:55 PM PLOTTED: 2022.11.15 05:57 PM PLOTTED BY: Meagan M. Strenski

GENERAL NOTES:

1. DO NOT SCALE DRAWINGS.

2. PRIME CONTRACTORS SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO THE START OF CONSTRUCTION.

3. PRIME CONTRACTORS SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, CODES AND ORDINANCES.

4. PRIME CONTRACTORS SHALL CONFIRM, LOCATE AND COORDINATE WORK WITH HIDDEN MECHANICAL, PLUMBING AND ELECTRICAL CONDITIONS.

5. PRIME CONTRACTORS SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SITE AND EQUIPMENT DURING CONSTRUCTION, INCLUDING DAMAGE FROM THE ELEMENTS. PRIME CONTRACTORS SHALL REPAIR ANY DAMAGE IMMEDIATELY AND TO THE SATISFACTION OF THE DEPARTMENT.

6. PRIME CONTRACTORS SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS ON THE JOB SITE. IF EXISTING CONDITIONS DO NOT PERMIT INSTALLATION OF WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT AND PROVIDE A SKETCH OF THE CONDITION.

7. DIMENSIONS ARE TO FINISH FACE OF WALL UNLESS NOTED OTHERWISE.

8. THE PRIME CONTRACTORS SHALL COORDINATE LOCATION AND SIZE OF ALL OPENINGS WITH EACH OTHER PRIOR TO INSTALLATION.

9. DETAILS SHOWN ARE INTENDED FOR SPECIFIC LOCATIONS AND CONDITIONS. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT SIMILAR CONDITIONS AND SHALL BE CONSIDERED PART OF THE WORK.

10. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS AS BEING NIC, ALL ITEMS, MATERIALS, ETC. AND INSTALLATION OF SAME ARE A PART OF THE CONTRACT WORK.

11. THE PRIME CONTRACTORS SHALL COORDINATE ALL SLEEVING WORK, UNO. COORDINATE LOCATION AND SIZE OF ALL OPENINGS, INTERIOR AND/OR EXTERIOR WITH EACH OTHER PRIOR TO INSTALLATION.

12. THE TERM PROFESSIONAL REFERS TO THE ARCHITECTURAL OR ENGINEERING FIRM RETAINED BY THE DEPARTMENT TO DESIGN AND DOCUMENT THE WORK OF THE PROJECT, OR THE PROFESSIONAL'S AUTHORIZED REPRESENTATIVE. THE TERM PROFESSIONAL MAY ALSO REFER TO THE CLIENT AGENCY IF THE PROJECT DESIGN WAS DELEGATED TO THE CLIENT AGENCY. THROUGHOUT THE SPECIFICATIONS AND DRAWINGS WHEREVER THE TERMS 'A/E', 'ARCHITECT' OR 'ENGINEER' ARE USED IT SHALL MEAN PROFESSIONAL.

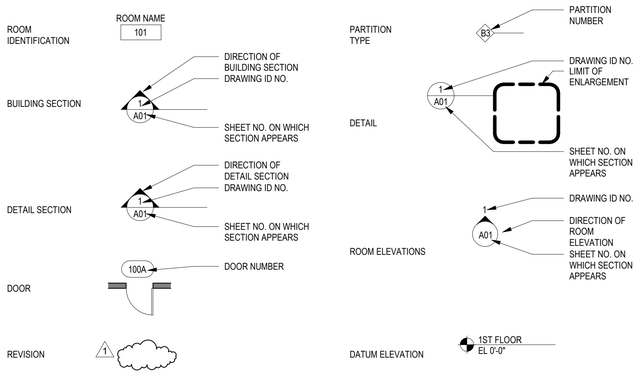
ABBREVIATIONS:

A	
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABV	ABOVE
ACT	ACOUSTIC CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
ALCW	ALUMINUM CURTAINWALL
AL(ALUM)	ALUMINUM
ALSF	ALUMINUM STOREFRONT
ALW	ALUMINUM WINDOW
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B	
B&B	BOARD AND BATTEN
BCAB	BASE CABINET
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BLW	BELOW
B.O.	BOTTOM OF
BC	BROADLOOM CARPET
BM	BEAM
BRK	BRICK
BTW	BETWEEN
C	
CAB	CABINET
CB	CEMENTBOARD
CERT	CERTIFIED
CFMF	COLD FORMED METAL FRAMING
CJ	CONSTRUCTION/CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR/ CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
COR	CORRUGATED
CPT	CARPET TILE
CT	CERAMIC TILE
CUH	CABINET UNIT HEATER
CW	CURTAINWALL
D	
DEMO	DEMOLISH/DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG(S)	DRAWING(S)
E	
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EP	ELECTRICAL PANEL
EPX	EPOXY
EQ	EQUAL
EQPM	EQUIPMENT
ES	EXPOSED STRUCTURE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
EXG	EXISTING
EXT	EXTERIOR

F	
FA	FIRE ALARM
FCB	FIBER CEMENT BOARD
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH(ED)
FLG	FLASHING
FLR	FLOOR(ING)
FND	FOUNDATION
F.O.	FACE OF
FP	FILLER PANEL
FT	FOOT (FEET)
FTG	FOOTING
FTR	FIN TUBE RADIATOR
G	
GA	GAUGE
GALV	GALVANIZED
GF	GROUND FACE
GLAZ	GLAZED, GLAZING, GLASS
GRG	GLASS REINFORCED GYPSUM
GWB	GYPSUM WALLBOARD
H	
HDPE	HIGH DENSITY POLYETHYLENE
HM	HOLLOW METAL
HOR	HORIZONTAL
HR	HOUR
HRWD	HARDWOOD
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
HVAC	HEAVING/VENTILATION/AIR CONDITIONING
HWH	HOT WATER HEATER
I	
IGU	INSULATED GLAZING UNIT
INCL	INCLUDING/INCLUDED
INFO	INFORMATION
INSUL	INSULATED, INSULATION
INT	INTERIOR
J	
JT	JOINT
L	
LAM	LAMINATED
LF	LINEAR FEET
LG	LONG
LIN	LINOLEUM
LLV	LONG LEG VERTICAL
LTL	LINTEL
LT	LIGHT
LOUV	LOUVER
M	
MAS	MASONRY
MAS DIM	MASONRY DIMENSION
MATL	MATERIAL
MAX	MAXIMUIM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
M.O.	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MULL	MULLION
N	
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OFE	OWNER FURNISHED EQUIPMENT
OH	OPPOSITE HAND
OPP	OPPOSITE
OPG	OPENING
OSB	ORIENTED STRAND BOARD
OTLN	OUTLINE

P	
PAC	PRECAST ARCHITECTURAL CONCRETE
PERF	PERFORATED
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PNL	PANEL
PNLG	PANELING
PNT	PAINT(ED)
POL	POLISHED
PROJ	PROJECTION
P.T.	PRESSURE TREATED
PT	PORCELAIN TILE
PTN	PARTITION
PWD	PLYWOOD
PV	PIPE VENT
R	
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RBT	RUBBER STAIR TREAD
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFER: REFERENCE
REQ'D	REQUIRED
REV	REVISION, REVISE(D)
RSF	RESILIENT FLOORING
RT	RESILIENT TILE FLOORING
RM	ROOM
R.O.	ROUGH OPENING
RTF	RESILIENT RUBBER TILE FLOORING
RWC	RAINWATER CONDUCTOR
S	
S	SOUTH
SA	SUPPLY AIR
SBC	SINK BASE CABINET
SBO	SUPPLIED BY OTHERS
SFI	SPRAY FOAM INSULATION
SGT	STRUCTURAL GLAZED TILE
SIM	SIMILAR
SIP	STRUCTURAL INSULATED PANEL
SL	SLOPED/SLOPE
SOG	SLAB ON GRADE
SSTL	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STN	STAIN(ED)
STRUC	STRUCTURAL
SUSP	SUSPENDED
T	
TER	TERRAZZO
TF	TRANSPARENT FINISH
THK	THICKNESS
TLT	TOILET
TPTN	TOILET PARTITION
T.O.	TOP OF
TYP	TYPICAL
T&G	TONGUE AND GROOVE
U	
UNO	UNLESS NOTED OTHERWISE
V	
VAR	VARIES/VARIOUS
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
W	
W	WEST
W/	WITH
W/O	WITHOUT
WB	WALL BASE
WC	WATER CLOSET
WCAB	WALL CABINET
WD	WOOD
WDP	WOOD PANEL
WF	WIDE FLANGE
WIN	WINDOW
WOM	WALK OFF MAT
WSCT	WAINSCOT
X	
XPS	EXTRUDED POLYSTYRENE

REFERENCE SYMBOLS:



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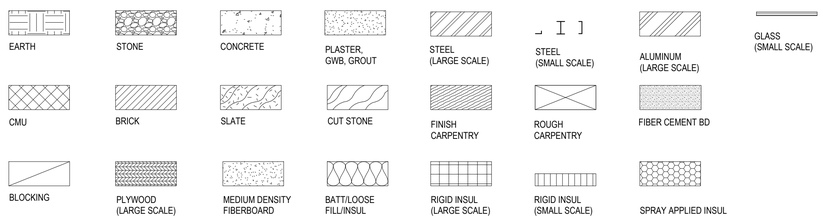

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA THOMAS WOODWARD No. RA016160X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 ▬ 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

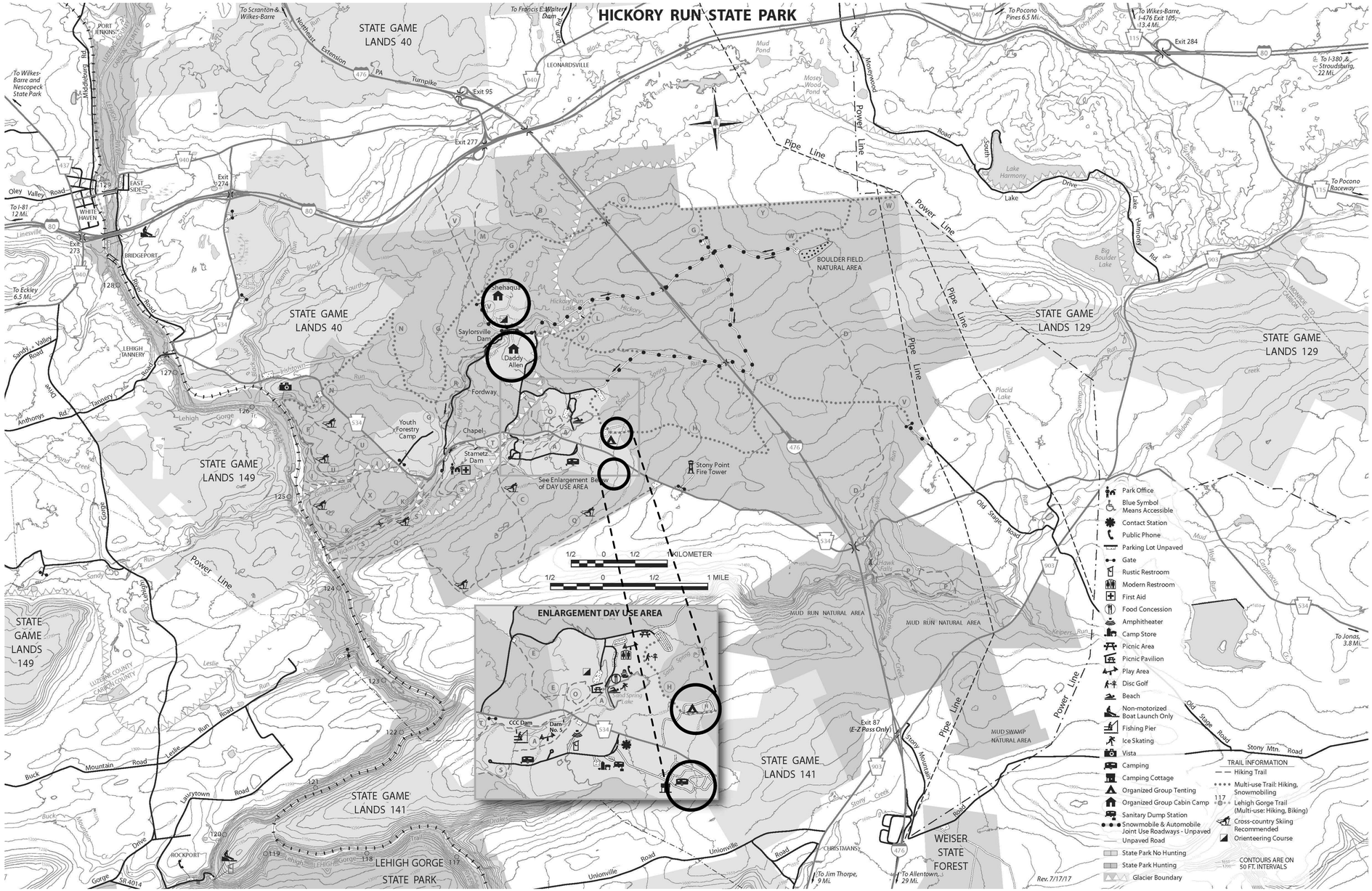
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GENERAL NOTES, ABBREVIATIONS, MATERIALS, REFERENCE SYMBOLS

DRAWN BY M STRENSKI	DATE 06/17/2022	DRAWING No. G–1
CHECKED BY T WOODWARD	SCALE AS NOTED	

HICKORY RUN STATE PARK



1 G-1 LAND TITLE LEASE SITE PLAN

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TIMOTHY WOODWARD No. RA036104

03/05/2021

SIGNATURE DATE

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WHITE HAVEN, CARBON COUNTY, PA

LAND TITLE LEASE SITE PLAN

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

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M STRENSKI	06/17/2022	G-2
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HICKORY RUN - LATRINE IMPROVEMENTS

GOVERNING CODES
PENNSYLVANIA UNIFORM CONSTRUCTION CODE (UCC)
INTERNATIONAL BUILDING CODE 2015 (IBC)
INTERNATIONAL ENERGY CONSERVATION CODE 2015 (IECC)
INTERNATIONAL FIRE, MECHANICAL, ELECTIRCAL, PLUMBING CODE 2015
ICC/ANSI 117.1.2015 and CHAPTER 11 AND APPENDIX E OF INTERNALTIONAL BUILDING CODE 2018
PENNSYLVANIA DEPARTMENT OF HEALTH CODE (CHAPTER 19)

CODE CHAPTER — **CHAPTER HEADING**

3 USE AND OCCUPANCY CLASSIFICATION
303.1 GROUP B
303.1.1: A BUILDING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY.

5 GENERAL BUILDING HEIGHTS AND AREAS
TABLE 504.3&4: CONSTRUCTION TYPE VB
ALLOWABLE HEIGHT ABOVE GRADE PLANE FOR GROUP B / NON-SPRINKLERED: 2 STORIES 40 FEET
ACTUAL HEIGHT ABOVE GRADE PLAN: LOOP C = 1 STORY / 17'-9"
OCTC CAMP = 1 STORY / 17'-5"
OGC = 1 STORY / 17'-11"
TABLE 506.2 ALLOWABLE BUILDING AREA PER STORY FOR GROUP B / NON-SPRINKLERED: 9,000SF
LOOP C = 2,151 SF
OCTC CAMP = 1,031 SF
OGC = 1,184 SF

6 TYPES OF CONSTRUCTION
CONSTRUCTION TYPE VB IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS, AND INTERIOR WALLS ARE OF ANY MATERIALS PERMITTED BY THIS CODE.
TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:
PRIMARY STRUCTURAL FRAME: 0-HOUR
EXTERIOR BEARING WALLS: 0-HOUR
INTERIOR BEARNG WALLS: 0-HOUR
EXTERIOR NONBEARING WALLS AND PARTITIONS: 0-HOUR
INTERIOR NONBEARING WALLS AND PARTITIONS: 0-HOUR
FLOOR CONSTRUCTION: 0-HOUR
ROOF CONSTRUCTION: 0-HOUR

7 FIRE AND SMOKE PROTECTION FEATURES
N/A

8 INTERIOR FINISHES
TABLE 803.11: INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

LOCATION	GROUP B (NON-SPRINKLERED)
INTERIOR EXIT PASSAGEWAYS	CLASS A
CORRIDORS	CLASS B
ROOMS AND ENCLOSED SPACES	CLASS C

9 FIRE PROTECTION SYSTEMS
906.1 PORTABLE FIRE EXTINGUISHERS ARE REQUIRED THROUGHOUT THE BUILDING IN GROUP B OCCUPANCY
TABLE 906.3: FIRE EXTINGUISHERS FOR CLASS A FIRE HAZRDS, LOW HAZARD OCCUPANCY
MINIMUM RATED SINGLE EXTINGUISHER FOR = 2-A
MAXIMUM FLOOR AREA PER UNIT OF A = 3,000SF
MAXIMUM FLOOR AREA FOR EXTINGUISHER = 11,250SF
MAXIMUM DISTANCE OF TRAVEL TO AN EXTINGUISHER = 75 FEET

10 MEANS OF EGRESS
TABLE 1004.1.2 MAXIMUM FLOOR AREA PER OCCUPANT
ACCESSORY STORAGE / MECHANICAL EQUIPMENT ROOM = 300 GROSS SF/OCCUPANT
LOCKER ROOMS = 50 GROSS SF/OCCUPANT
1005.3 THE TOTAL WIDTH OF THE MEANS OF EGRESS IN INCHES SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPILED BY 0.2 INCHES PER OCCUPANT FOR OTHER EGRESS COMPONENTS
TABLE 1006.2.1: OCCUPANCY B, MAXIMUM OCCUPANT LOAD OF SPACE WITH ONE EXIT = 49 OCCUPANTS
MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE = 75 FEET WHEN OCCUPANT LOAD IS GREATER THAN 30 AND 100 FEET WHEN OCCUPANT LOAD IS LESS THAN 30
1006.3.2: A SINGLE EXIT SHALL BE PERMITTED FROM ANY STORY OR OCCUPIED ROOF WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:
1. THE OCCUPANT LOAD, NUMBER OF DWELLING UNITS AND COMMON PATH OR EGRESS TRAVEL DISTANCE DOES NOT EXCEED THE VALUES IN TABLE 1006.3.2(2)-
MAXIMUM OCCUPANT LOAD PER STORY = 49 OCCUPANTS AND MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE = 75 FEET.
2. ROOMS, AREAS, AND SPACES COMPLYING WITH SECTION 1006.2.1 WITH EXITS THAT DISCHARGE DIRECTLY TO THE EXTERIOR AT THE LEVEL OF EXIT DISCHARGE, ARE PERMITTED TO HAVE ONE EXIT.
1008.1 MEANS OF EGRESS ILLUMINATION: ILLUMINATION SHALL BE PROVIDED IN THE MEANS OF EGRESS IN ACCORDANCE WITH SECTION 1008.2. UNDER EMERGENCY POWER, MEANS OF EGRESS ILLUMINATION SHALL COMPLY WITH SECTION 1008.3.
1008.2 ILLUMINATION REQUIRED: THE MEANS OF EGRESS SERVING A ROOM OR SPACE SHALL BE ILLUMINATED AT ALL TIMES THAT THE ROOM OR SPACE IS OCCUPIED.
1008.3 ILLUMINATION LEVEL UNDER NORMAL POWER: THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY.
1009.1 ACCESSIBLE MEANS OF EGRESS REQUIRED: ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS.
1010.1.1 SIZE OF DOORS: THE MINIMUM WIDTH OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 32 INCHES.
1010.1.2.1 DIRECTION OF SWING: PIVOT OR SIDE-HINGED SWINGING DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING A ROOM OR AREA CONTAINING AN OCCUPANT LOAD OF 50 OR MORE PERSONS.
1010.1.3 DOOR OPENING FORCE: THE FORCE FOR PUSHING OR PULLING OPEN INTERIOR SWINGING EGRESS DOORS SHALL NOT EXCEED 5 POUNDS (22 N). THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION; THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15-POUND (67 N) FORCE.
1013.1 EXCEPTION 1: EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.
TABLE 1017.2: IN GROUP B OCCUPANCY WITHOUT AN AUTOMATIC SPRINKLER SYSTEM, THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS 200 FT.

11 (IBC 2018) ACCESSIBILITY
1103.1 WHERE REQUIRED: SITES, BUILDINGS, STRUCTURES, FACILITIES, ELEMENTS AND SPACES, TEMPORARY OR PERMANENT, SHALL BE ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES.
1104.1 SITE ARRIVAL POINTS: AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE SITE SHALL BE PROVIDED FROM ACCESSIBLE PARKING AND SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE SERVED.
1105.1 PUBLIC ENTRANCES: AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.
EXCEPTION: AN ACCESSIBLE ENTRANCE IS NOT REQUIRED TO AREAS NOT REQUIRED TO BE ACCESSIBLE.
1106.1 PARKING AND PASSENGER LOADING FACILITIES: WHERE PARKING IS PROVIDED, ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN COMPLIANCE WITH TABLE 1106.1.
TABLE 1106.1: TOTAL PARKING SPACES PROVIDED = 1-25, REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES = 1.
1109.2 TOILET AND BATHING FACILITIES: EACH TOILET AND BATHING ROOM SHALL BE ACCESSIBLE. EXCEPT AS PROVIDED FOR IN SECTIONS 1109.2.2 AND 1109.2.3, AT LEAST ONE OF EACH TYPE OF FIXTURE, ELEMENT, CONTROL OR DISPENSER IN EACH ACCESSIBLE TOILET ROOM SHALL BE ACCESSIBLE.
1109.2.1 FAMILY OR ASSISTED-USE TOILET AND BATHING ROOMS: IN RECREATIONAL FACILITIES WHERE SEPARATE-SEX BATHING ROOMS ARE PROVIDED, AN ACCESSIBLE FAMILY OR ASSISTED-USE BATHING ROOM SHALL BE PROVIDED.
1109.2.1.6 CLEAR FLOOR SPACE: WHERE DOORS SWING INTO A FAMILY OR ASSISTED-USE TOILET OR BATHING ROOM, A CLEAR FLOOR SPACE NOT LESS THAN 30 INCHES BY 48 INCHES SHALL BE PROVIDED, WITHIN THE ROOM, BEYOND THE AREA OF THE DOOR SWING.
1109.2.1.7 PRIVACY: DOORS TO FAMILY OR ASSISTED-USE TOILET AND BATHING ROOMS SHALL BE SECURABLE FROM WITHIN THE ROOM.
1109.2.2 WATER CLOSET COMPARTMENT: WHERE WATER CLOSET COMPARTMENTS ARE PROVIDED IN A TOILET ROOM OR BATHING ROOM, AT LEAST 5 PERCENT OF THE TOTAL NUMBER OF COMPARTMENTS SHALL BE WHEELCHAIR ACCESSIBLE. WHERE THE COMBINED TOTAL WATER CLOSET COMPARTMENTS AND URINALS PROVIDED IN A TOILET ROOM OR BATHING ROOM IS SIX OR MORE, AT LEAST 5 PERCENT OF THE TOTAL NUMBER OF COMPARTMENTS SHALL BE AMBULATORY ACCESSIBLE, PROVIDED IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE COMPARTMENT.
1109.2.3 LAVATORIES: WHERE LAVATORIES ARE PROVIDED, AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, SHALL BE ACCESSIBLE.
1109.5 DRINKING FOUNTAINS: WHERE DRINKING FOUNTAINS ARE PROVIDED ON AN EXTERIOR SITE, THE DRINKING FOUNTAINS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1109.5.1 AND 1109.5.2.
1109.5.1 MINIMUM NUMBER: NOT FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR PEOPLE WHO USE A WHEELCHAIR AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR STANDING PERSONS.
EXCEPTION 1: A SINGLE DRINKING FOUNTAIN WITH TWO SEPARATE SPOUTS THAT COMPLIES WITH THE REQUIREMENTS FOR PEOPLE WHO USE A WHEELCHAIR AND STANDING PERSONS SHALL BE PERMITTED TO BE SUBSTITUTED FOR TWO SEPARATE DRINKING FOUNTAINS.
1111.1 SIGNS: REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THESE LOCATIONS: (1) ACCESSIBLE PARKING SPACES REQUIRED BY SECTION 1106.1. EXCEPTION: WHERE THE TOTAL NUMBER OF PARKING SPACES PROVIDED IS FOUR OR LESS, IDENTIFICATION OF ACCESSIBLE PARKING SPACES IS NOT REQUIRED.
(7) FAMILY OR ASSISTED-USE TOILET AND BATHING ROOMS.

DEPARTMENT OF HEALTH - PENNSYLVANIA CODE
CHAPTER 19 19.26 CAMPGROUNDS: TOILET FACILITIES IN CAMPGROUNDS SHALL BE PROVIDED BASED ON TABLE 19.26:
81-100 CAMPSITES: TOILET SEATS- MALE (3), FEMALE (4), LAVATORIES- MALE (4), FEMALE (4), URINALS- MALE (2)
FOR EACH ADDITIONAL 1-100 SPACES, ADD 1 FIXTURE FOR EACH TYPE

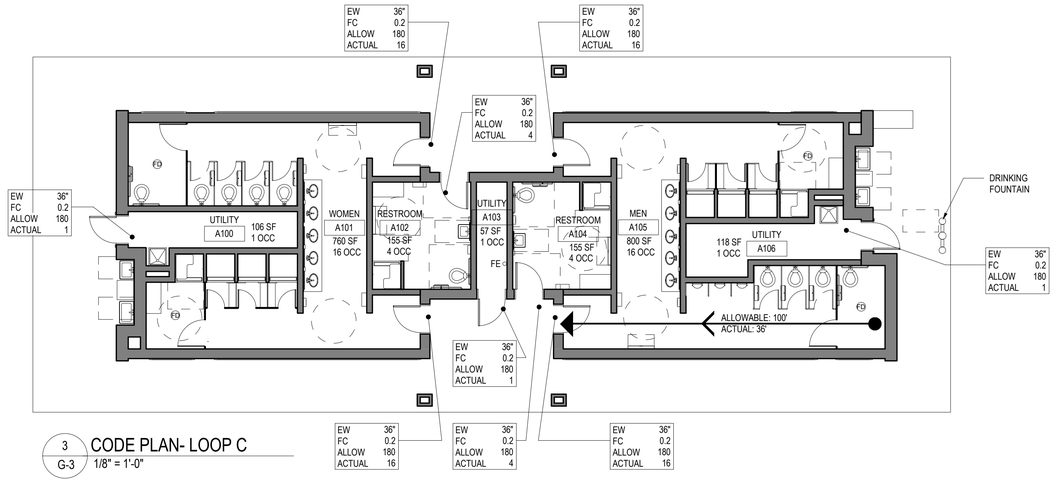
LOOP C- 108 CAMPSITES
TOILET SEATS- MALE (4), FEMALE (5)
LAVATORIES- MALE (5), FEMALE (5)
URINALS- MALE (3)

OGTC – N/A

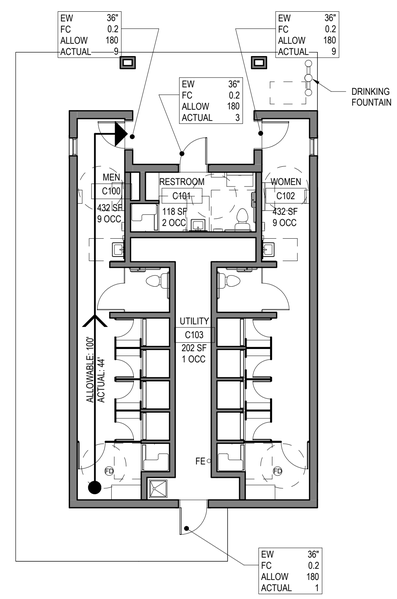
OGC- N/A
RESTROOMS FOR CAMPSITES LOCATED ELSEWHERE

CODE PLAN KEY

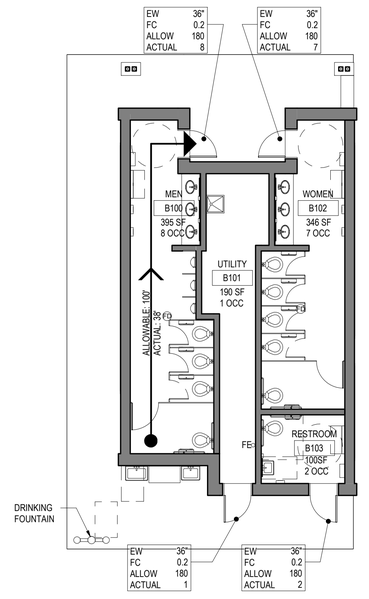
DOOR CAPACITY		CORRIDOR CAPACITY		SYMBOLS
	EXIT DOOR		CORRIDOR	
EXIT WIDTH	EW 36"	CLEAR CORRIDOR WIDTH	CW 72"	FE — FIRE EXTINGUISHER
EXIT FACTOR	FC 0.2	EGRESS WIDTH PER OCCUPANT	FC 0.2	# — OCCUPANT LOAD PER SPACE
ALLOWABLE CAPACITY	ALLOW -	MAXIMUM CAPACITY	ALLOW -	
ACTUAL CAPACITY	ACTUAL -	ACTUAL OCCUPANT LOAD	ACTUAL -	
RATED WALLS		**MAXIMUM TRAVEL DISTANCE**		
1 HOUR FIRE PARTITION (FIRE BARRIER WHERE NOTED)		PATH OF EXIT ACCESS TRAVEL (WHERE APPLICABLE)		
2 HOUR FIRE BARRIER				



3 G-3 CODE PLAN- LOOP C
1/8" = 1'-0"



2 G-3 CODE PLAN OGC- DADDY ALLEN AND SHEHAQUA
1/8" = 1'-0"



1 G-3 CODE PLAN - OGTC CAMP
1/8" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA — DOUGLAS C. WOODWARD No. RA-016167X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
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CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

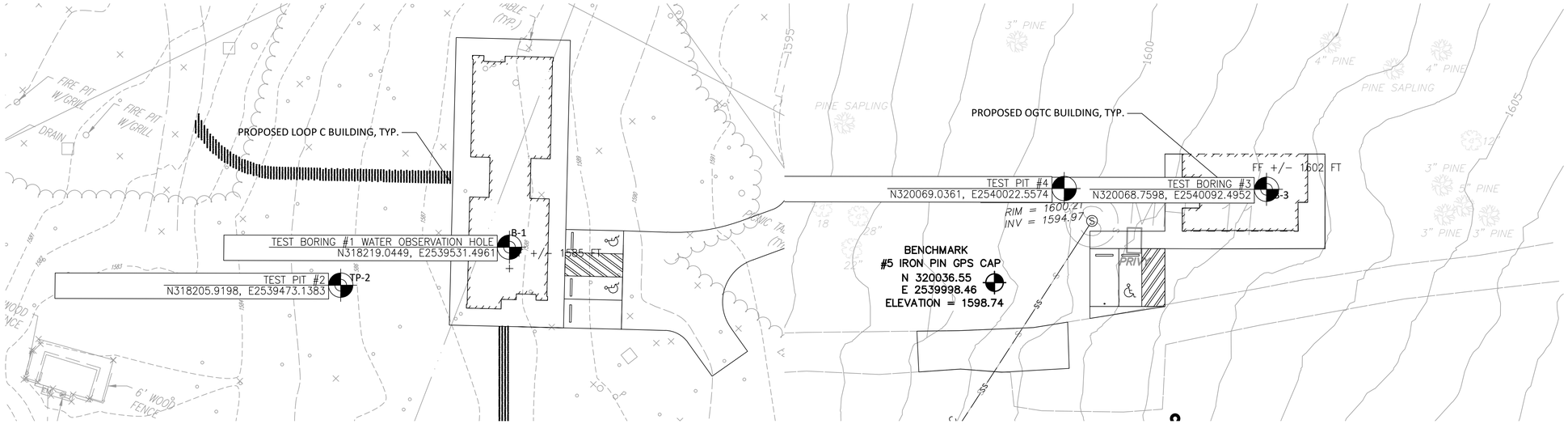
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

BUILDING CODE INFORMATION

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	G–3
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

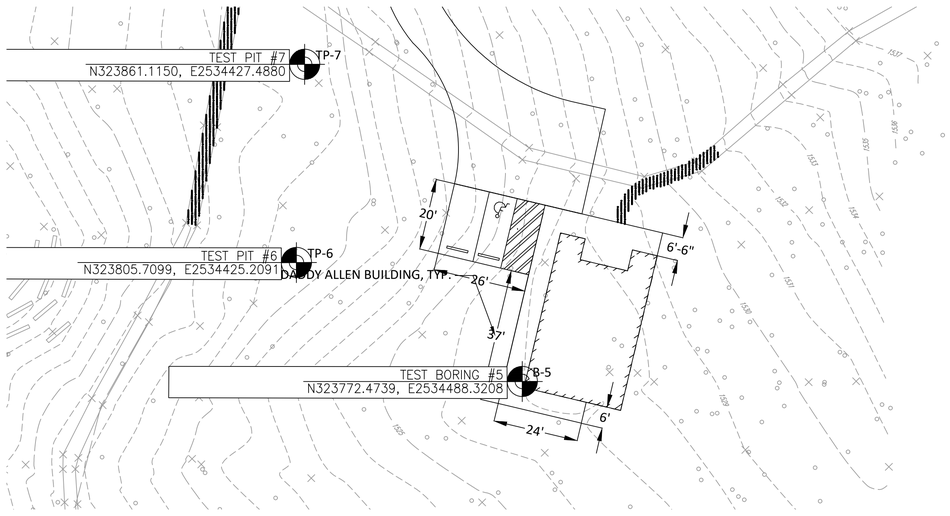
5 OF 144

FILE PATH: N:\23_Hickory Run\01 Architect\01 Pw\Hickory Run State Park Latrine Improvements - Thinbrick.dwg
LAST SAVED: 2022.06.04 1:21 PM PLOTTED: 2016.11.08 8:35 AM PLOTTED BY: Megan M. Strenski

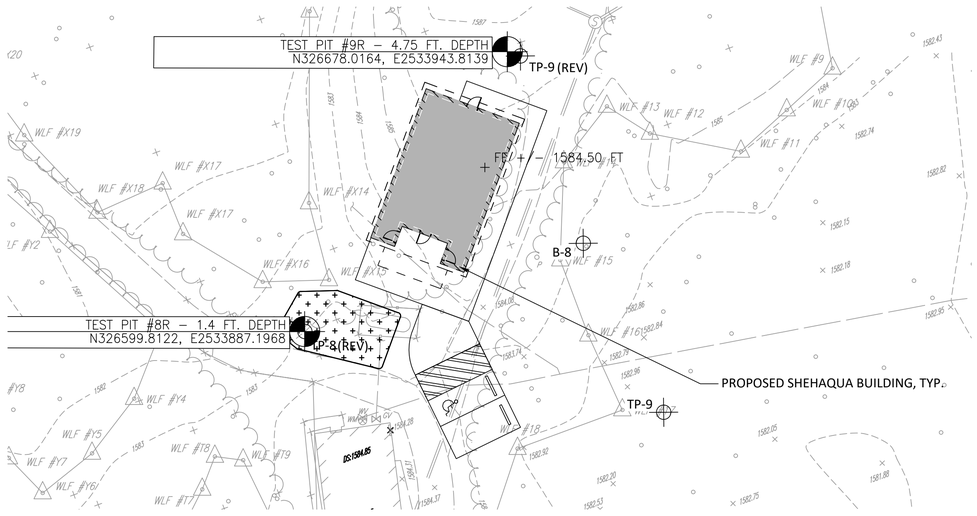


1 TB-0 TB-1 GEOTECHNICAL TESTING PLAN
LOOP C 1"=20'

2 TB-0 TB-2 GEOTECHNICAL TESTING PLAN
OGTC 1"=20'



3 TB-0 TB-3 GEOTECHNICAL TESTING PLAN
DADDY ALLEN 1"=20'



4 TB-0 TB-4 GEOTECHNICAL TESTING PLAN
SHEHAQUA 1"=20'

NOTES:
1. ALL TEST BORINGS SHALL BE CARRIED TO THE DEPTHS LISTED IN THE SCHEDULE, EXCEPT WHERE ROCK IS ENCOUNTERED PRIOR THERETO, IN WHICH CASE, CORING SHALL EXTEND (5) FEET INTO THE ROCK, WHETHER OR NOT THE FINAL DEPTH IS MORE OR LESS THAN THE DEPTH LISTED IN THE SCHEDULE, EXCEPT THAT CERTAIN BORINGS SHALL BE CARRIED TO THE CONTRACT DEPTH REGARDLESS OF THE MATERIALS ENCOUNTERED.
2. ALL INFILTRATION TESTS SHALL BE DOUBLE-RING INFILTROMETER TESTS AND PERFORMED TO THE DEPTHS SPECIFIED IN THE SCHEDULE. TESTING REQUIREMENTS SHALL FOLLOW PA STORMWATER BMP MANUAL AND KIDDER TOWNSHIP CODE CHAPTER 148.

20 0 20 40
1 INCH = 20 FEET

TEST SCHEDULE

TEST NUMBER	TEST	SURFACE ELEVATION	CONTRACT DEPTHS	ACTUAL DEPTHS
1	STANDARD BORING		25.00 Ft	
2	TEST PIT		7.00 Ft	
3	STANDARD BORING		25.00 Ft	
4	TEST PIT		7.00 Ft	
5	STANDARD BORING		25.00 Ft	
6	TEST PIT		7.00 Ft	
7	TEST PIT		7.00 Ft	
8	STANDARD BORING		25.00 Ft	
9	TEST PIT		7.00 Ft	

SCHEDULE OF CONTRACT QUANTITIES

No. Holes	Earth Drilling	Rock Coring	Total Footage
4 Std. Borings	100 Lin. Ft.	0 Lin. Ft.	100 Lin. Ft.

No of Soil Test Pits: 5 each
No of Soil Infilitration Tests: 10 each

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123
melioradesign.com

RECORD REVISIONS

SEAL
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
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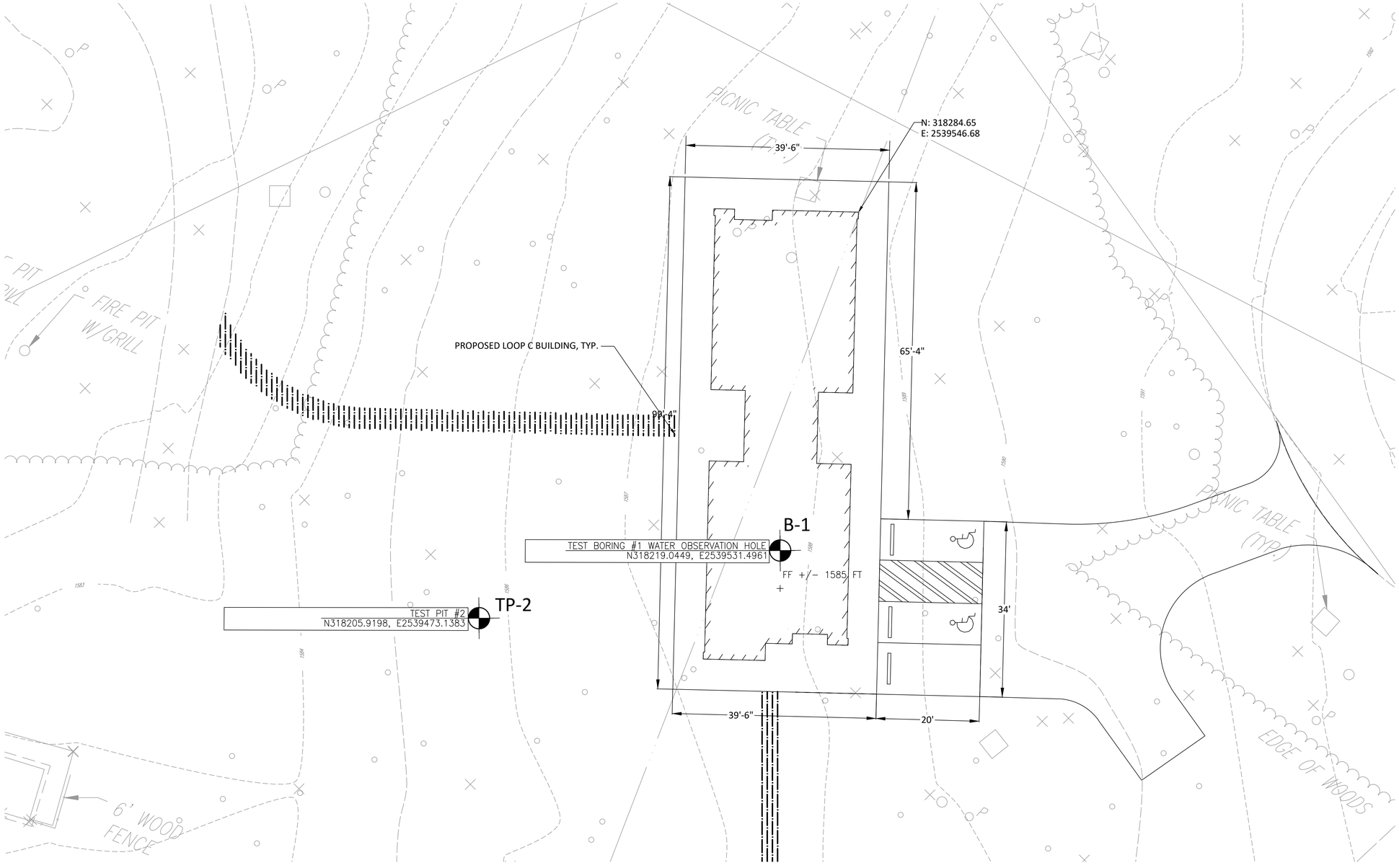
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TEST BORING LOCATION PLAN AND SCHEDULE – SHEET 1

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M DIMONTE	06/07/2022	TB–0
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027 – GEOTECHNICAL TESTING PLAN.dwg
LAST SAVED: 2022.06.17 10:04 AM PLOTTED: 2022.06.17 10:07 AM PLOTTED BY: James Adams



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10 0 10 20
1 INCH = 10 FEET

TEST SCHEDULE

TEST NUMBER	TEST	SURFACE ELEVATION	CONTRACT DEPTHS	ACTUAL DEPTHS
1 *	STANDARD BORING		25.00 Ft	
2 *	INFILTRATION		5.00 Ft	

*NOTE: BORINGS 1 AND 2 MAY MOVE TO A NEARBY LOCATION. FINAL LOCATIONS WILL BE GIVEN PRIOR TO DRILLING.

1 / TB-0 TB-1 GEOTECHNICAL TESTING PLAN
LOOP C 1"=20'

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(610) 933-0123 melioradesign.com

RECORD REVISIONS

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SIGNATURE DATE

SMP ARCHITECTS
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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

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C-114-0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TEST BORING LOCATION PLAN AND SCHEDULE – SHEET 2

DRAWN BY	DATE	DRAWING No.
M DIMONTE	06/07/2022	TB-1
CHECKED BY	SCALE	
J ADAMS	AS NOTED	7 OF 144

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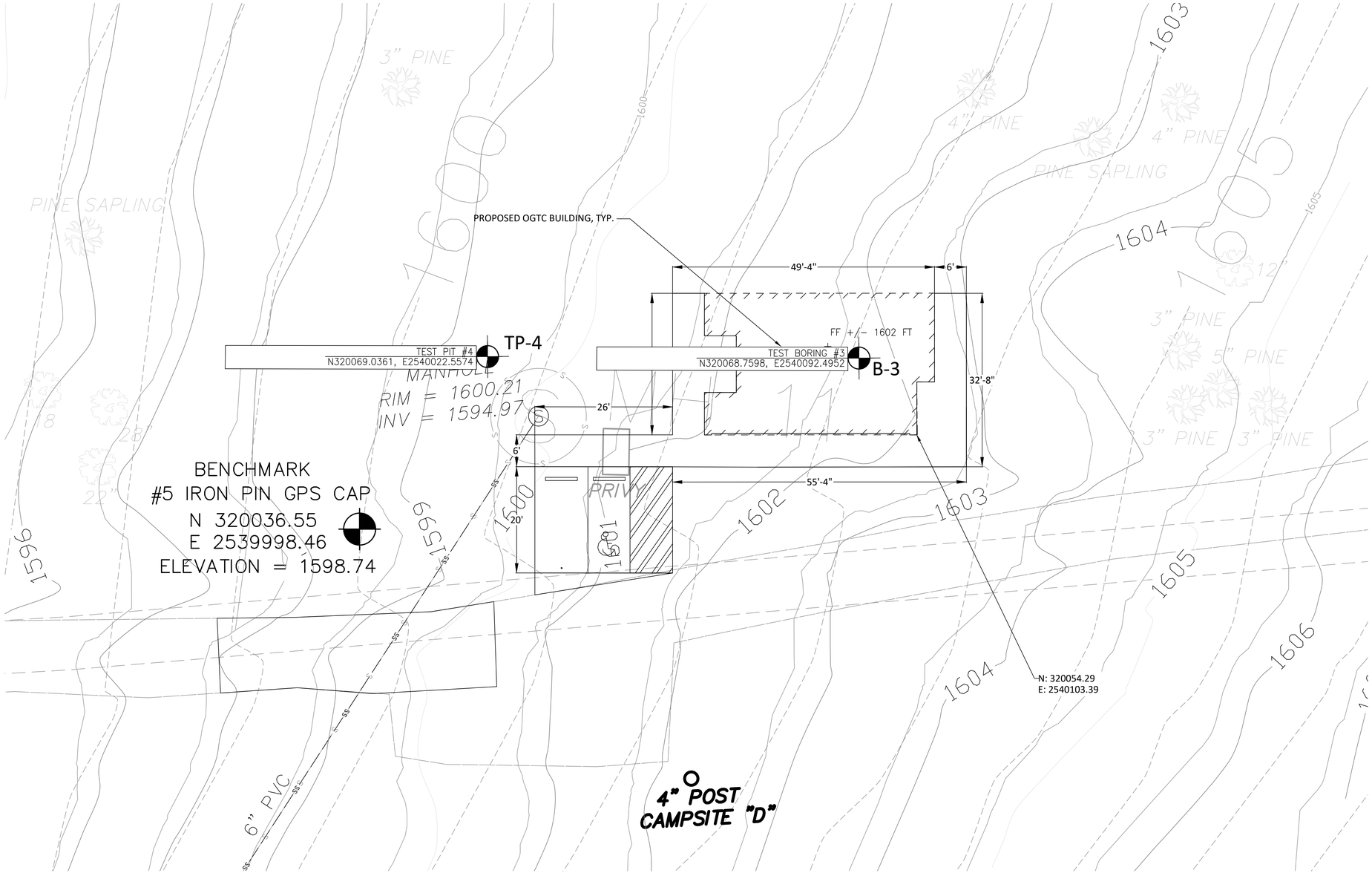

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N

10 0 10 20

1 INCH = 10 FEET

TEST SCHEDULE

TEST NUMBER	TEST	SURFACE ELEVATION	CONTRACT DEPTHS	ACTUAL DEPTHS
3	STANDARD BORING		25.00 Ft	
4	INFILTRATION		5.00 Ft	

2 / TB-0 TB-2 GEOTECHNICAL TESTING PLAN
OGTC 1"=20'

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TEST BORING LOCATION PLAN AND SCHEDULE – SHEET 3

DRAWN BY	DATE	DRAWING No.
M DIMONTE	06/07/2022	TB-2
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

8 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - GEOTECHNICAL TESTING PLAN.dwg
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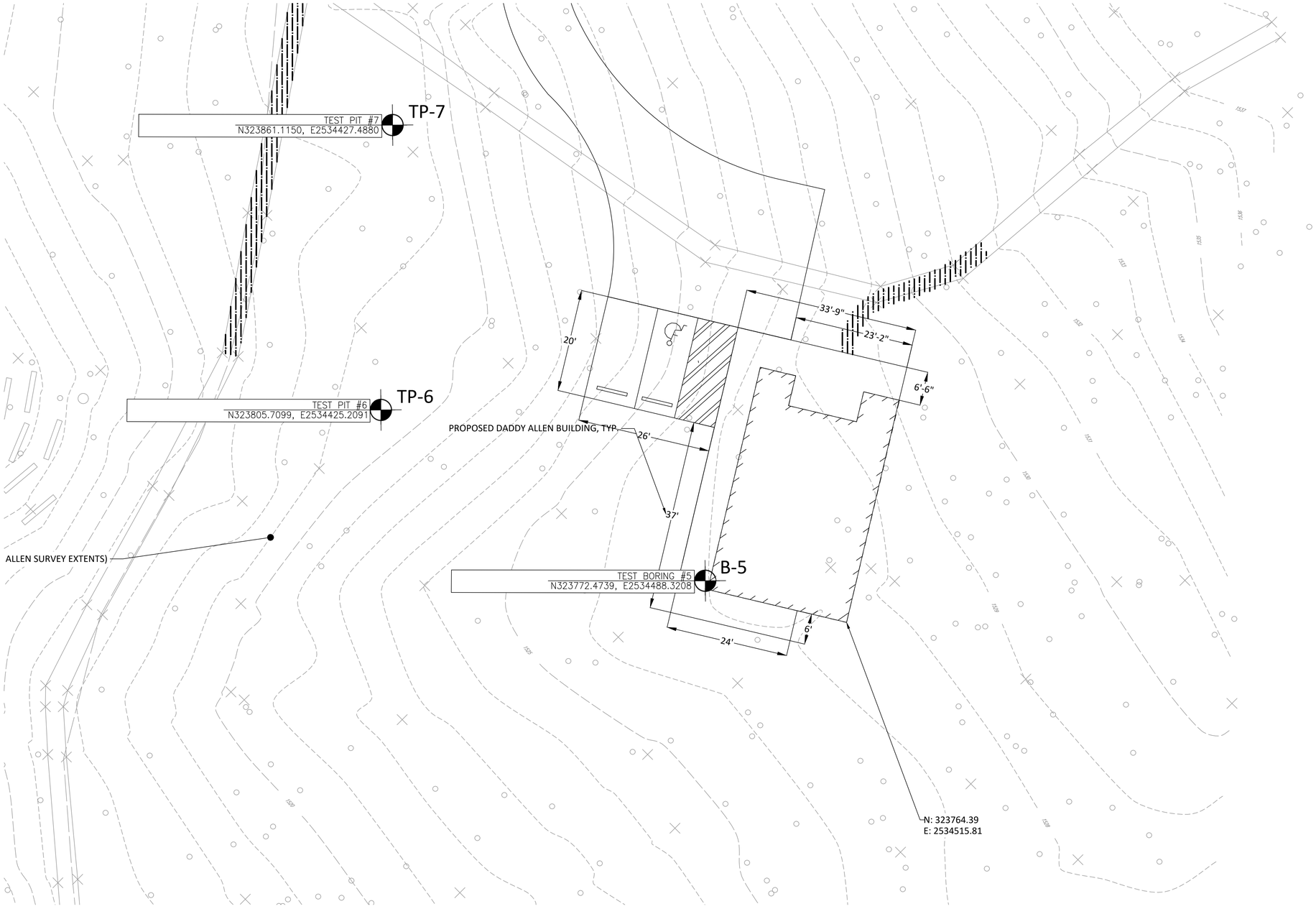

TEST SCHEDULE

TEST NUMBER	TEST	SURFACE ELEVATION	CONTRACT DEPTHS	ACTUAL DEPTHS
5	STANDARD BORING		25.00 Ft	
6	INFILTRATION		5.00 Ft	
7	INFILTRATION		5.00 Ft	

3 / TB–0 TB–3 GEOTECHNICAL TESTING PLAN
DADDY ALLEN 1'=20'

NOTES:
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N

10 0 10 20
1 INCH = 10 FEET

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RECORD REVISIONS

SEAL

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TEST BORING LOCATION PLAN AND SCHEDULE – SHEET 4

DRAWN BY	DATE	DRAWING No.
M DIMONTE	06/07/2022	TB–3
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

9 OF 144

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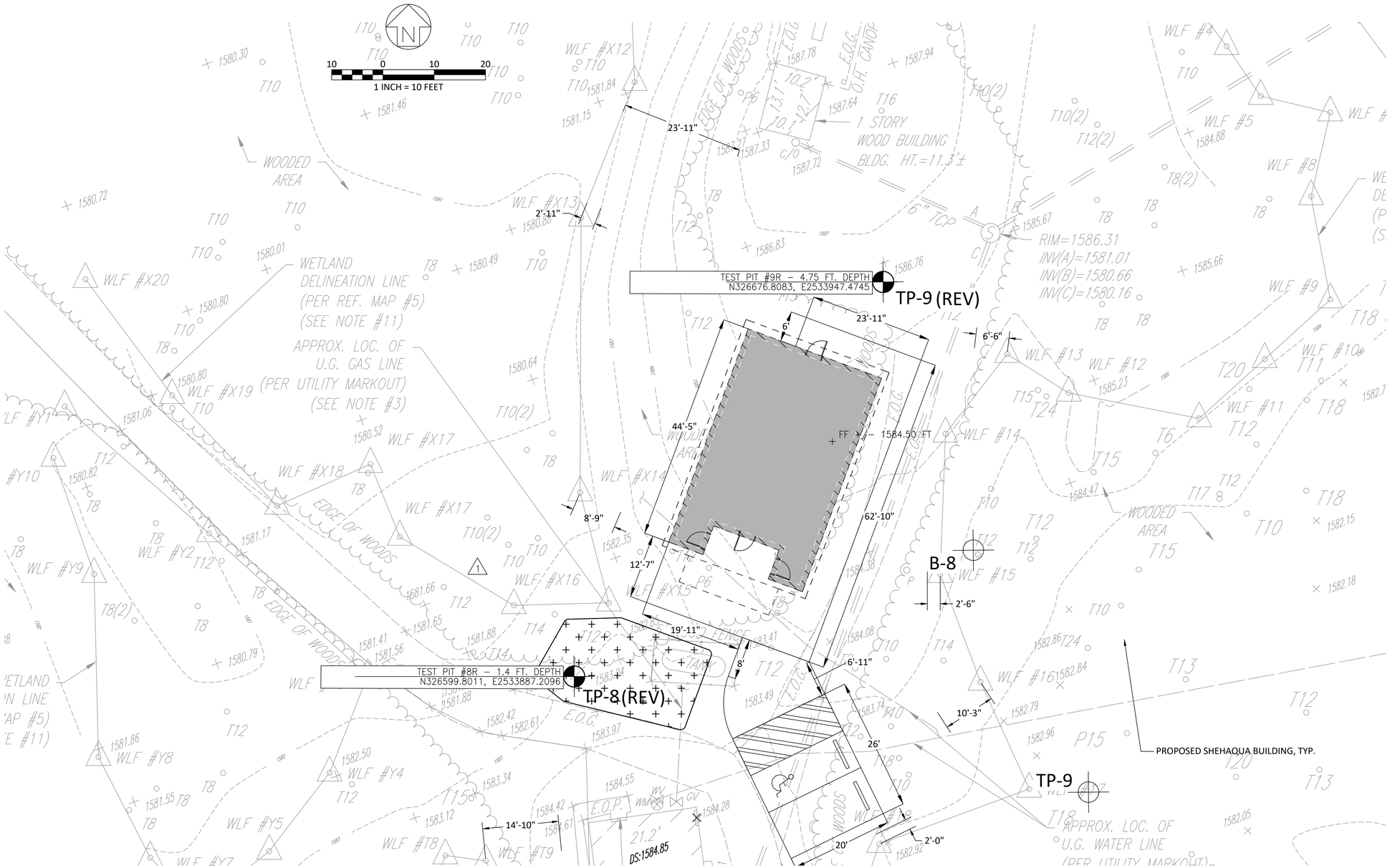

4 TB–0 TB–4 GEOTECHNICAL TESTING PLAN
SHEHAQUA 1'=20'

NOTES:
1. ALL TEST BORINGS SHALL BE CARRIED TO THE DEPTHS LISTED IN THE SCHEDULE, EXCEPT WHERE ROCK IS ENCOUNTERED PRIOR THERETO, IN WHICH CASE, CORING SHALL EXTEND (5) FEET INTO THE ROCK, WHETHER OR NOT THE FINAL DEPTH IS MORE OR LESS THAN THE DEPTH LISTED IN THE SCHEDULE, EXCEPT THAT CERTAIN BORINGS SHALL BE CERTIFIED TO THE CONTRACT DEPTH REGARDLESS OF THE MATERIALS ENCOUNTERED.
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1 INCH = 10 FEET

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1	ADDED LOCATIONS		
RECORD REVISIONS			

SEAL
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
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HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TEST BORING LOCATION PLAN AND SCHEDULE – SHEET 5

DRAWN BY	DATE	DRAWING No.
M DIMONTE	06/07/2022	TB–4
CHECKED BY	SCALE	
M DIMONTE	AS NOTED	10 OF 144

BASE BID #2 - CAMP SHEHAQUA

FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027 – GEOTECHNICAL TESTING PLAN.dwg
LAST SAVED: 2022.06.17 10:04 AM PLOTTED: 2022.06.17 10:59 AM PLOTTED BY: James Adams

Geo-Science Engineering & Testing, LLC
Consulting Geotechnical Engineers
1252 Mid-Valley Drive
Jessup, PA 18434
(570) 489-8717

LOG OF BORING

BORING NO. **B-1**
SHEET 1 OF 1

PROJECT Hickory Run State Park
White Haven, Pa
EXPLORATION CONTRACTOR Pocono Test Borings & Drilling Co.
ENGINEER REP.
NORTH
EAST
STARTED 12-2-20
COMPLETED 12-2-20
LOGGED BY Frank Sipple

GROUNDWATER
ENCOUNTERED DURING
DRILLING AT 8 ▽
HOURS AFTER DRILLING ▼
DAYS AFTER DRILLING ▼
DAYS AFTER DRILLING ▼
Drill Water

BORING METHOD
☐ HAND AUGER
☐ HOLLOW STEM AUGER
☐ CONTINUOUS FLIGHT AUGER
☒ DRIVING CASING
☐ ROTARY (MUD) DRILLING
☐ DEPTH MUD STARTED

SAMPLER TYPE AND DATA
☒ SPLIT BARREL 2 Inch O.D.
☐ UNDISTURBED SAMPLE
☐ AUGER 4 Inch
☐ ROCK CORE NQ

DEPTH AND ELEVN. (FT)	NUMBER	LEGEND	SPT. VALUES	CORE REC. %	RQD %	WATER LEVEL	SYMBOLIC LOG	SOIL DESCRIPTION
1588.5	1		1 1 1 1	15				**SILTY SAND with GRAVEL (SM)** some organics, roots, brown, loose to medium dense, moist
	2		4 7 10 10	90				
1584.5	3		10 10 9 8	75				**SILTY GRAVEL with SAND (GM)** brown, medium dense to very dense, moist
1583.5	4		8 10 11 10	85				
	5		10 10 11 14	70				
1578.5								
	6		8 9 9 12	90				
1573.5								Water Observation Well Installed
1570.5	7		12 24 52 50/.1	69				**CLAYEY SAND with GRAVEL (SC)** some shale fragments, brown and grey, very dense , wet
1568.5								
	8		39 50/.3	75				
1563.5								EOB @ 25'

PPR (tsf) 1.0 2.0 3.0 4.0
MOISTURE (%) 10.0 20.0 30.0 40.0
Qu (tsf) 1.0 2.0 3.0 4.0
BLOW COUNT 20 40 60 80

REMARKS:

The stratification lines represent approximate boundaries between soil types: Insitu the transition may be gradual.

BOREHOLE LOCATION
STATION:
OFFSET:
ELEVATION: 1588.5

B-6

Geo-Science Engineering & Testing, LLC
Consulting Geotechnical Engineers
1252 Mid-Valley Drive
Jessup, PA 18434
(570) 489-8717

LOG OF BORING

BORING NO. **B-3**
SHEET 1 OF 1

PROJECT Hickory Run State Park
White Haven, Pa
EXPLORATION CONTRACTOR Pocono Test Borings & Drilling Co.
ENGINEER REP.
NORTH
EAST
STARTED 12-2-20
COMPLETED 12-2-20
LOGGED BY Frank Sipple

GROUNDWATER
ENCOUNTERED DURING
DRILLING AT 12 ▽
HOURS AFTER DRILLING ▼
DAYS AFTER DRILLING ▼
DAYS AFTER DRILLING ▼
Drill Water

BORING METHOD
☐ HAND AUGER
☐ HOLLOW STEM AUGER
☐ CONTINUOUS FLIGHT AUGER
☒ DRIVING CASING
☐ ROTARY (MUD) DRILLING
☐ DEPTH MUD STARTED

SAMPLER TYPE AND DATA
☒ SPLIT BARREL 2 Inch O.D.
☐ UNDISTURBED SAMPLE
☐ AUGER 4 Inch
☐ ROCK CORE NQ

DEPTH AND ELEVN. (FT)	NUMBER	LEGEND	SPT. VALUES	CORE REC. %	RQD %	WATER LEVEL	SYMBOLIC LOG	SOIL DESCRIPTION
1601.5	1		1 1 6 13	20				**SILTY SAND with GRAVEL (SM)** red brown, loose, moist
1599.5								**SILTY SAND (SM)** brown, medium dense to very dense, moist
	2		9 1 9 24	25				
1596.5	3		18 24 19 20	55				
	4		50/.3	67				
1593.5	R-1			54				**BOULDERS** nested
1591.5	R-2			36				
1586.5								
1583.5	5		28 16 19 16	35				**SILTY SAND (SM)** brown, medium dense, moist
1581.5								
	6		11 15 12 22	50				
1576.5								EOB @ 25'

PPR (tsf) 1.0 2.0 3.0 4.0
MOISTURE (%) 10.0 20.0 30.0 40.0
Qu (tsf) 1.0 2.0 3.0 4.0
BLOW COUNT 20 40 60 80

REMARKS:

The stratification lines represent approximate boundaries between soil types: Insitu the transition may be gradual.

BOREHOLE LOCATION
STATION:
OFFSET:
ELEVATION: 1601.5

B-7

Geo-Science Engineering & Testing, LLC
Consulting Geotechnical Engineers
1252 Mid-Valley Drive
Jessup, PA 18434
(570) 489-8717

LOG OF BORING

BORING NO. **B-5**
SHEET 1 OF 1

PROJECT Hickory Run State Park
White Haven, Pa
EXPLORATION CONTRACTOR Pocono Test Borings & Drilling Co.
ENGINEER REP.
NORTH N 5
EAST E 0
STARTED 12-2-20
COMPLETED 12-2-20
LOGGED BY Frank Sipple

GROUNDWATER
ENCOUNTERED DURING
DRILLING AT 9 ▽
HOURS AFTER DRILLING ▼
DAYS AFTER DRILLING ▼
DAYS AFTER DRILLING ▼
Drill Water

BORING METHOD
☐ HAND AUGER
☐ HOLLOW STEM AUGER
☐ CONTINUOUS FLIGHT AUGER
☒ DRIVING CASING
☐ ROTARY (MUD) DRILLING
☐ DEPTH MUD STARTED

SAMPLER TYPE AND DATA
☒ SPLIT BARREL 2 Inch O.D.
☐ UNDISTURBED SAMPLE
☐ AUGER 4 Inch
☐ ROCK CORE NQ

DEPTH AND ELEVN. (FT)	NUMBER	LEGEND	SPT. VALUES	CORE REC. %	RQD %	WATER LEVEL	SYMBOLIC LOG	SOIL DESCRIPTION
1527.0	1		1 2 1 4	45				**SILTY SAND with GRAVEL (SM)** some cobbles, red brown, loose to very dense, moist
	2		3 3 2 3	40				
1522.5	3		4 8 9 14	50				
	4		10 13 11 20	35				
	5		24 50/.2	71				
1517.0								
	6		21 27 50/.2	83				
1512.0								
	7		18 14 14 17	40				
1507.0								
1504.0	8		30 32 28 31	25				**SILTY SAND (SM)** some rock fragments, red brown, very dense, moist
1502.0								EOB @ 25'

PPR (tsf) 1.0 2.0 3.0 4.0
MOISTURE (%) 10.0 20.0 30.0 40.0
Qu (tsf) 1.0 2.0 3.0 4.0
BLOW COUNT 20 40 60 80

REMARKS:

The stratification lines represent approximate boundaries between soil types: Insitu the transition may be gradual.

BOREHOLE LOCATION
STATION:
OFFSET:
ELEVATION: 1527

B-8

Geo-Science Engineering & Testing, LLC
Consulting Geotechnical Engineers
1252 Mid-Valley Drive
Jessup, PA 18434
(570) 489-8717

LOG OF BORING

BORING NO. **B-8**
SHEET 1 OF 1

PROJECT Hickory Run State Park
White Haven, Pa
EXPLORATION CONTRACTOR Pocono Test Borings & Drilling Co.
ENGINEER REP.
NORTH
EAST
STARTED 12-2-20
COMPLETED 12-2-20
LOGGED BY Frank Sipple

GROUNDWATER
ENCOUNTERED DURING
DRILLING AT 8 ▽
HOURS AFTER DRILLING ▼
DAYS AFTER DRILLING ▼
DAYS AFTER DRILLING ▼
Drill Water

BORING METHOD
☐ HAND AUGER
☐ HOLLOW STEM AUGER
☐ CONTINUOUS FLIGHT AUGER
☒ DRIVING CASING
☐ ROTARY (MUD) DRILLING
☐ DEPTH MUD STARTED

SAMPLER TYPE AND DATA
☒ SPLIT BARREL 2 Inch O.D.
☐ UNDISTURBED SAMPLE
☐ AUGER 4 Inch
☐ ROCK CORE NQ

DEPTH AND ELEVN. (FT)	NUMBER	LEGEND	SPT. VALUES	CORE REC. %	RQD %	WATER LEVEL	SYMBOLIC LOG	SOIL DESCRIPTION
1585.0	1		2 3 8 8	75				**SILTY SAND with GRAVEL (SM)** brown, medium dense, moist
	2		8 8 10 11	65				
1581.0								**SILTY SAND (SM)** red brown, medium dense, moist
1580.5	3		14 12 12 13	75				
	4		10 13 8 15	45				
	5		4 10 10 12	70				
1575.0								
	6		8 9 9 10	70				
1570.0								Water Observation Well Installed
	7		5 9 10 13	100				
1565.0								
	8		8 9 9 9	90				
1560.0								EOB @ 25'

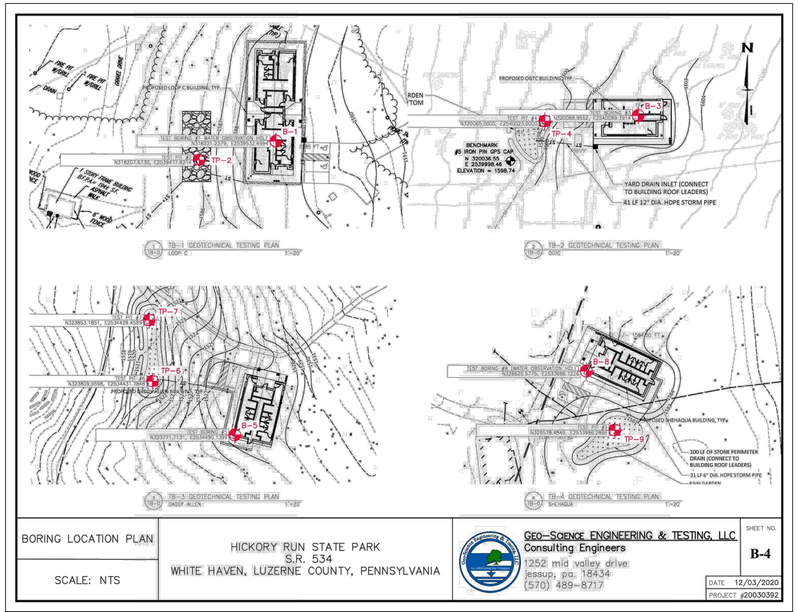
PPR (tsf) 1.0 2.0 3.0 4.0
MOISTURE (%) 10.0 20.0 30.0 40.0
Qu (tsf) 1.0 2.0 3.0 4.0
BLOW COUNT 20 40 60 80

REMARKS:

The stratification lines represent approximate boundaries between soil types: Insitu the transition may be gradual.

BOREHOLE LOCATION
STATION:
OFFSET:
ELEVATION: 1585

B-9



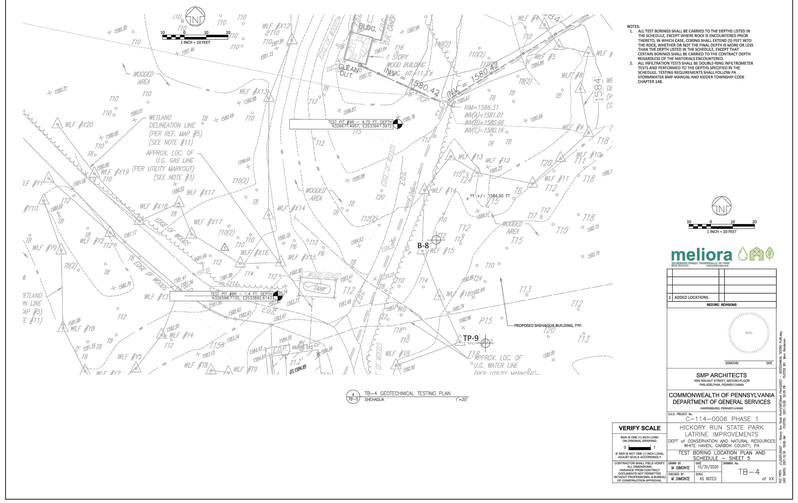
BORING LOCATION PLAN

SCALE: NTS

HICKORY RUN STATE PARK
S.R. 534
WHITE HAVEN, LUZERNE COUNTY, PENNSYLVANIA

GEO-SCIENCE ENGINEERING & TESTING, LLC
Consulting Engineers
1252 mid valley drive
jessup, pa. 18434
(570) 489-8717

SHEET NO. **B-4**
DATE 12/03/2020
PROJECT #20030392



NOTES:
1. ALL TEST BORINGS SHALL BE CARRIED TO THE DEPTHS LISTED IN THE SCHEDULE, EXCEPT WHERE ROCK IS ENCOUNTERED PRIOR TO REACHING THE DEPTH LISTED IN THE SCHEDULE. IF ROCK IS ENCOUNTERED, WHETHER ON BOTTOM OR NOT THE FINAL DEPTH IS MORE OR LESS THAN THE DEPTH LISTED IN THE SCHEDULE, EXCEPT THAT NO BORING SHALL BE TERMINATED AT A DEPTH LESS THAN CONTRACT DEPTH REGARDLESS OF THE MATERIALS ENCOUNTERED.
2. ALL INFILTRATION TESTS SHALL BE DOUBLE-RING INFILTROMETER TESTS AND SHALL BE PERFORMED AT THE LOCATIONS AND DEPTHS IN THE SCHEDULE. TESTING REQUIREMENTS SHALL FOLLOW PA STORMWATER BMP MANUAL AND KIDDER TOWNSHIP CODE CHAPTER 148.

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080420

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

BORING LOGS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	TB-5
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

11 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL NOTES.dwg
LAST SAVED: 2022.06.22 09:06 AM PLOTTED: 2022.06.22 09:06 AM PLOTTED BY: Laura L. Gill
LAYOUT TAB: BORING LOGS

LOG OF TEST PIT TP-2

Date Excavated: 11/23/20 Logged by: MA

Equipment: Bobcat Mini Excavator Surface Elevation(ft): 1586.0

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	HAND PEN. (tsf)	MOISTURE (%)	DRY UNIT WT. (pcf)	LAB TESTS
		Root mat - O - Black Silty Sand					
		SILTY SAND with GRAVEL (SM) brown - loose, moist					
		SILTY GRAVEL with SAND (GM) - brown, medium dense to dense, moist					
5		Infiltration Test Elevation					
		EOP @ 7'					

Geo-Science Engineering & Testing, LLC
1252 Mid Valley Drive
Jessup, PA 18434
Phone: 570-489-8717 Fax:

Hickory Run State Park
White Haven, PA

C-4

LOG OF TEST PIT TP-4

Date Excavated: 11/23/20 Logged by: MA

Equipment: Bobcat Mini Excavator Surface Elevation(ft): 1598.0

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	HAND PEN. (tsf)	MOISTURE (%)	DRY UNIT WT. (pcf)	LAB TESTS
		Root mat - O - Black Silty Sand					
		SILTY SAND - brown -medium dense, moist					
		SILTY GRAVEL with SAND (GM) - red brown, dense, moist					
5		Infiltration Test Elevation					
		Cobbles/Nested					
		EOP @ 7'					

Geo-Science Engineering & Testing, LLC
1252 Mid Valley Drive
Jessup, PA 18434
Phone: 570-489-8717 Fax:

Hickory Run State Park
White Haven, PA

C-7

LOG OF TEST PIT TP-6

Date Excavated: 11/24/20 Logged by: MA

Equipment: Bobcat Mini Excavator Surface Elevation(ft): 1521.0

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	HAND PEN. (tsf)	MOISTURE (%)	DRY UNIT WT. (pcf)	LAB TESTS
		Root mat - O - Black Silty Sand					
		SILTY SAND with GRAVEL (SM) - brown, medium dense, moist					
		SILTY GRAVEL with SAND (GM) brown, dense, moist					
5		Infiltration Test Elevation					
		EOP @ 7'					

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Jessup, PA 18434
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Hickory Run State Park
White Haven, PA

C-10

LOG OF TEST PIT TP-7

Date Excavated: 11/24/20 Logged by: MA

Equipment: Bobcat Mini Excavator Surface Elevation(ft): 1521.0

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	HAND PEN. (tsf)	MOISTURE (%)	DRY UNIT WT. (pcf)	LAB TESTS
		Root mat - O - Black Silty Sand					
		SILTY SAND (SM) - brown, medium dense, moist					
		SILTY GRAVEL with SAND (GM) - red brown, medium dense to dense, moist					
5		Infiltration Test Elevation					
		EOP @ 7'					

Geo-Science Engineering & Testing, LLC
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Jessup, PA 18434
Phone: 570-489-8717 Fax:

Hickory Run State Park
White Haven, PA

C-13

LOG OF TEST PIT TP-9

Date Excavated: 11/24/20 Logged by: MA

Equipment: Bobcat Mini Excavator Surface Elevation(ft): 1582.0

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	HAND PEN. (tsf)	MOISTURE (%)	DRY UNIT WT. (pcf)	LAB TESTS
		Root mat - O - Black Silty Sand					
		SILTY SAND (SM) - grey (gleyed)					
		Water					
5		EOP @ 3'					

Geo-Science Engineering & Testing, LLC
1252 Mid Valley Drive
Jessup, PA 18434
Phone: 570-489-8717 Fax:

Hickory Run State Park
White Haven, PA

C-16

LOG OF TEST PIT TP-8R

Date Excavated: 11/9/21 Logged by: JW

Equipment: Bobcat Mini Excavator Surface Elevation(ft): 1583.0

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	HAND PEN. (tsf)	MOISTURE (%)	DRY UNIT WT. (pcf)	LAB TESTS
		Root mat - O - Silty Sand - Brown w/root mat					
		SILTY SAND with GRAVEL (SM) brown - medium dense, moist					
		Infiltration Test Elevation					
		SILTY SAND with GRAVEL (SM) - red brown, dense, moist					
		EOP @ 3.4'					

Geo-Science Engineering & Testing, LLC
1252 Mid Valley Drive
Jessup, PA 18434
Phone: 570-489-8717 Fax:

Hickory Run State Park
White Haven, PA

LOG OF TEST PIT TP-9R

Date Excavated: 11/9/21 Logged by: JW

Equipment: Bobcat Mini Excavator Surface Elevation(ft): 1586.0

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	HAND PEN. (tsf)	MOISTURE (%)	DRY UNIT WT. (pcf)	LAB TESTS
		Root mat - O - Silty Sand - Brown w/root mat					
		SILTY SAND with GRAVEL (SM) brown - medium dense, moist					
		SILTY SAND with GRAVEL (SM) red brown, medium dense to dense, moist					
5		Infiltration Test Elevation					
		EOP @ 7'					

Geo-Science Engineering & Testing, LLC
1252 Mid Valley Drive
Jessup, PA 18434
Phone: 570-489-8717 Fax:

Hickory Run State Park
White Haven, PA

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080430

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TEST PIT LOGS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	TB-6
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

12 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL NOTES.dwg
LAST SAVED: 2022.06.22 09:06 AM PLOTTED: 2022.06.22 09:06 AM PLOTTED BY: Laura L. Gill LAYOUT TAB: TEST PIT LOGS

GENERAL NOTES

1. HIGHWAY OCCUPANCY PERMITS ARE REQUIRED FOR ACCESS TO ROADS UNDER THE JURISDICTION OF THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PURSUANT TO THE STATE HIGHWAY LAW (P.L. 1242, NO. 428, § 420) AND FOR ACCESS TO ROADS UNDER THE JURISDICTION OF KIDDER TOWNSHIP.
2. THE DEVELOPER AND/OR THE LOT PURCHASER(S) ASSUMES FULL RESPONSIBILITY FOR OBTAINING ANY LOCAL, STATE, AND FEDERAL PERMITS AND/OR APPROVALS RELATING TO WETLANDS. APPROVAL BY THE BOARD OF SUPERVISORS SHALL NOT IN ANY MANNER BE CONSTRUED TO BE AN APPROVAL OF COMPLIANCE WITH STATUTES OR REGULATIONS RELATING TO WETLANDS. KIDDER TOWNSHIP SHALL HAVE NO LIABILITY OR RESPONSIBILITY FOR THE SAME TO THE DEVELOPER OR PURCHASER(S).
3. THIS APPROVAL IN NO WAY CERTIFIES OR GUARANTEES THE SUITABILITY OF ANY LOT FOR THE INSTALLATION OF A SUBSURFACE SEWAGE DISPOSAL SYSTEM. THE PA DEP PLANNING CONDUCTED AS PART OF THE SUBDIVISION PLAN APPROVAL PROCESS IS FOR GENERAL SUITABILITY ONLY; AND, A SEWAGE PERMIT WILL BE REQUIRED PRIOR TO THE ISSUANCE OF ANY BUILDING PERMIT.
4. THE BOARD OF SUPERVISORS OF KIDDER TOWNSHIP DOES NOT INTEND TO ACCEPT THE DEDICATION ANY OF THE ROADS, STREETS OR THE LIKE, OTHER PROPOSED PUBLIC WAYS, SPACES, OR AREAS, OR ANY OTHER DEVELOPMENT IMPROVEMENTS SHOWN ON THIS FINAL PLAN. THE LAND OWNER, DEVELOPER OR AN ASSOCIATION OF LOT OWNERS SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL DEVELOPMENT IMPROVEMENTS THEM SUBSEQUENT TO THE CONSTRUCTION OF THE SAME.
5. THE PROPERTY SHOWN ON THIS PLAN IS UNDER AND SUBJECT TO THE KIDDER TOWNSHIP ZONING ORDINANCE, AS AMENDED.
6. THE APPROVAL OF THIS PLAN BY THE BOARD OF SUPERVISORS OF KIDDER TOWNSHIP DOES NOT HAVE THE EFFECT OF ALTERING, REDEFINING OR EXTINGUISHING ANY EASEMENTS OF RECORD EXISTING ON, UNDER OR OVER THE PROPERTY.

CAMP LOOP C SURVEY NOTES

1. PROPERTY KNOWN AS APN 76-20-A.02 AS IDENTIFIED ON THE TAX ASSESSORS MAPS OF KIDDER TOWNSHIP, CARBON COUNTY, COMMONWEALTH OF PENNSYLVANIA.
2. PER CONTRACTUAL AGREEMENT WITH CLIENT, CONTROL POINT ASSOCIATES, INC. HAS NOT PERFORMED A BOUNDARY SURVEY.
3. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE BASED UPON MARKOUT PROVIDED BY UNDERGROUND SURVEYING, LLC. USING GROUND PENETRATING RADAR. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE, AND TYPE BY THERE PROPER UTILITY COMPANIES.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED, BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.) PER REF. #2.
7. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
8. ELEVATIONS REFER TO BENCHMARKS SHOWN ON REFERENCE #4.

TEMPORARY BENCH MARKS SET:
TBM-A: IRON PIN SET IN GRASS
ELEVATION=1577.76

TBM-B: IRON PIN SET IN GRASS
ELEVATION=1608.42

PRIOR TO CONSTRUCTION IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED.
ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.

9. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
10. A SUBSURFACE UTILITY MARKOUT WAS PERFORMED BY CONTROL POINT ASSOCIATES, INC. TO ASSIST IN THE LOCATION OF UNDERGROUND UTILITIES. UTILITIES WERE MARKED 8-03-2020 AND FIELD LOCATED 8-11-2020. SEE REF. #3.
11. THERE WERE NO PROPERTY MARKERS FOUND AT THE TIME OF FIELD SURVEY.

REFERENCES

1. THE OFFICIAL TAX ASSESSOR'S MAP OF KIDDER TOWNSHIP, CARBON COUNTY, COMMONWEALTH OF PENNSYLVANIA.
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, CARBON COUNTY, PENNSYLVANIA (ALL JURISDICTIONS), PANELS 65 AND 70 OF 380", MAP NUMBERS 420225C0065D AND 420225C0070D, MAPS REVISED: JUNE 3, 2002.
3. MAP ENTITLED "HICKORY RUN STATE PARK, SUBSURFACE UTILITY ENGINEERING, SUL #08-200192, CPA #02-200204", PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED 8/10/20.
4. MAP ENTITLED "HICKORY RUN STATE PARK LATRINE IMPROVEMENTS, DEPT. OF CONSERVATION AND NATURAL RESOURCES, WHITE HAVEN, CARBON COUNTY, PA., DEMOLITION PLAN", PREPARED BY SMP ARCHITECTS, DATED JUN 2020, SURVEY-1 TO SURVEY-3.

CAMP OGTC SURVEY NOTES

SURVEY 1

1. PROVIDED BY DCNR APRIL 23, 2020 FOR PROJECT USE.
2. SURVEY DATUM IS BASED ON THE RIM OF THE EXISTING SANITARY MANHOLE LOCATED NEAR BASELINE #1 ELEVATION = 1536.00 (PROVIDED BY THE PARK OFFICE)
3. SURVEY AND BASE MAP PREPARED BY CLOUGH, HARBOUR AND ASSOCIATES LLP, MOOSIC PENNSYLVANIA, JULY 2000

SURVEY 2

1. PROVIDED BY DCNR APRIL 23, 2020 FOR PROJECT USE.
2. BENCHMARK WAS ESTABLISHED AT THE FOLLOWING LOCATION:
   #5 IRON PIN GPS CAP
   N 320036.55
   E 2539998.46
   ELEVATION = 1598.74
3. HORIZONTAL DATUM EQUALS NAD83; VERTICAL DATUM EQUALS NAVD88
4. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDON. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAMP DADDY ALLEN SURVEY NOTES

1. PROPERTY KNOWN AS APN 76-20-A.02 AS IDENTIFIED ON THE TAX ASSESSORS MAPS OF KIDDER TOWNSHIP, CARBON COUNTY, COMMONWEALTH OF PENNSYLVANIA.
2. PER CONTRACTUAL AGREEMENT WITH CLIENT, CONTROL POINT ASSOCIATES, INC. HAS NOT PERFORMED A BOUNDARY SURVEY
3. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE BASED UPON MARKOUT PROVIDED BY UNDERGROUND SURVEYING, LLC. USING GROUND PENETRATING RADAR. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE, AND TYPE BY THERE PROPER UTILITY COMPANIES.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED, BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.) PER REF. #2.
7. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
8. ELEVATIONS REFER TO BENCHMARKS SHOWN ON REFERENCE #4.

TEMPORARY BENCH MARKS SET:
TBM-C: IRON PIN WITH CAP SET IN GRAVEL
ELEVATION=1520.20

TBM-D: IRON PIN WITH CAP SET IN GRASS
ELEVATION=1539.23

PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT HE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED.
ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.

9. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
10. A SUBSURFACE UTILITY MARKOUT WAS PERFORMED BY CONTROL POINT ASSOCIATES, INC. TO ASSIST IN THE LOCATION OF UNDERGROUND UTILITIES. UTILITIES WERE MARKED 8-03-2020 AND FIELD LOCATED 8-11-2020. SEE REF. #3.

REFERENCES

1. THE OFFICIAL TAX ASSESSOR'S MAP OF KIDDER TOWNSHIP, CARBON COUNTY, COMMONWEALTH OF PENNSYLVANIA.
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, CARBON COUNTY, PENNSYLVANIA (ALL JURISDICTIONS), PANELS 65 AND 70 OF 380", MAP NUMBERS 420225C0065D AND 420225C0070D, MAPS REVISED: JUNE 3, 2002.
3. MAP ENTITLED "HICKORY RUN STATE PARK, SUBSURFACE UTILITY ENGINEERING, SUL #08-200192, CPA #02-200204", PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED 8/10/20.
4. MAP ENTITLED "HICKORY RUN STATE PARK LATRINE IMPROVEMENTS, DEPT. OF CONSERVATION AND NATURAL RESOURCES, WHITE HAVEN, CARBON COUNTY, PA., DEMOLITION PLAN", PREPARED BY SMP ARCHITECTS, DATED JUN 2020, SURVEY-1 TO SURVEY-3.

CAMP SHEHAQUA SURVEY NOTES

1. PROPERTY KNOWN AS PART OF APN 76-20-A.02 AS IDENTIFIED ON THE TAX ASSESSORS MAPS OF KIDDER TOWNSHIP, CARBON COUNTY, COMMONWEALTH OF PENNSYLVANIA.
2. PER CONTRACTUAL AGREEMENT WITH CLIENT, CONTROL POINT ASSOCIATES, INC. HAS NOT PERFORMED A BOUNDARY SURVEY.
3. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE BASED UPON MARKOUT PROVIDED BY UNDERGROUND SURVEYING, LLC. USING GROUND PENETRATING RADAR. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE, AND TYPE BY THEIR PROPER UTILITY COMPANIES.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED, BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.) PER REF. #2.
7. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
8. ELEVATIONS REFER TO BENCHMARKS SHOWN ON REFERENCE #4.

TEMPORARY BENCH MARKS SET:
TBM-E: IRON PIN WITH CAP SET IN GRAVEL
ELEVATION=1585.68

BM-F: IRON PIN WITH CAP SET IN GRASS
ELEVATION=1583.92

PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT HE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED.
ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.

9. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
10. A SUBSURFACE UTILITY MARKOUT WAS PERFORMED BY CONTROL POINT ASSOCIATES, INC. TO ASSIST IN THE LOCATION OF UNDERGROUND UTILITIES. UTILITIES WERE MARKED 8-03-2020 AND FIELD LOCATED 8-13-2020. SEE REF. #3.
11. THE WETLAND DELINEATION LINE WAS PLACED IN THE FIELD BY SCHMID & COMPANY ON MARCH 30, 2021 AND FIELD LOCATED BY CONTROL POINT ASSOCIATES, INC. ON 10-04-2021.

REFERENCES

1. THE OFFICIAL TAX ASSESSOR'S MAP OF KIDDER TOWNSHIP, CARBON COUNTY, COMMONWEALTH OF PENNSYLVANIA.
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, CARBON COUNTY, PENNSYLVANIA (ALL JURISDICTIONS), PANELS 65 AND 70 OF 380", MAP NUMBERS 420225C0065D AND 420225C0070D, MAPS REVISED: JUNE 3, 2002.
3. MAP ENTITLED "HICKORY RUN STATE PARK, SUBSURFACE UTILITY ENGINEERING, SUL #08-200192, CPA #02-200204", PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED 8/10/20.
4. MAP ENTITLED "HICKORY RUN STATE PARK LATRINE IMPROVEMENTS, DEPT. OF CONSERVATION AND NATURAL RESOURCES, WHITE HAVEN, CARBON COUNTY, PA., DEMOLITION PLAN", PREPARED BY SMP ARCHITECTS, DATED JUN 2020, SURVEY-1 TO SURVEY-3.
5. WETLAND SKETCH PROVIDED BY SCHMID & COMPANY, DATED MARCH 30, 2021.

UTILITIES

THE FOLLOWING COMPANIES WERE NOTIFIED BY THE PENNSYLVANIA ONE-CALL SYSTEM (1-800-242-1776) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST.
SERIAL NUMBER: 20202343070

UTILITY COMPANY	PHONE NUMBER
FRONTIER COMMUNICATIONS	1-866-901-7386
PENCOR SERVICES	717-421-0780
PP&L	610-774-3213
UGI UTILITIES	800-322-4429
VERIZON	800-339-2314
SUMMIT MANAGEMENT AND UTILITIES INC	570-722-9111

PENNSYLVANIA ONE CALL SYSTEM, INC. DIAL 811 STOP – CALL BEFORE YOU DIG!

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420
06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GENERAL NOTES

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-0
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

13 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL NOTES.dwg
LAST SAVED: 2022.06.15 03:58 PM PLOTTED BY: Laura L Gill
PLOTTED: 2022.06.15 04:11 PM GENERAL NOTES

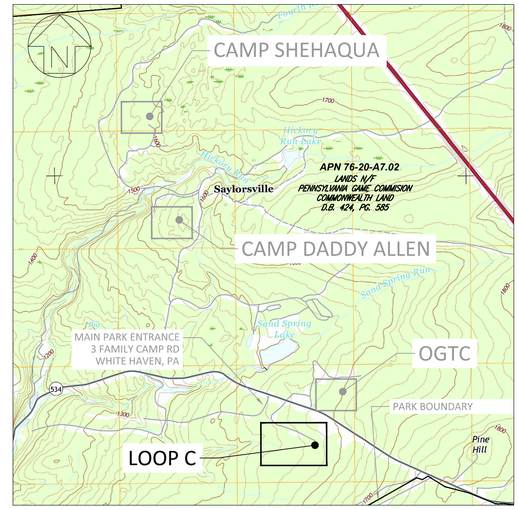
LEGEND

- S — EXISTING 6" PVC GRAVITY SEWER
- W — EXISTING WATER MAIN
- EXISTING UTILITY POLE
- P — EXISTING POWER LINE
- EXISTING TREE
- EXISTING CONTOUR
- LEGAL RIGHT-OF-WAY LINE
- EXISTING EDGE OF PAVEMENT
- Abcde — TEXT FOR EXISTING ITEMS
- ABCDE — TEXT FOR EXISTING ITEMS
- WOODS LINE
- EXISTING STORM SEWER
- EXISTING SANITARY MANHOLE
- TP/B-9 — SOIL TEST PIT (TP) OR BORING (B) LOCATION

40 0 40 80
1 INCH = 40 FEET

Restrooms
Water Fountain
MH 7
MH 6
MH 12
Gravel Road
Playground
1600
1585
1580
WvB
WvA
VsB
APN 76-20-A7.02
LANDS N/F
PENNSYLVANIA GAME COMMISSION
COMMONWEALTH LAND
D.B. 424, PG. 585

SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080430

SIGNATURE 06/15/22 DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK LATRINE IMPROVEMENTS

DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EXISTING CONDITIONS PLAN – CAMP LOOP C

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
	06/17/2022	C-1
CHECKED BY	SCALE	
	AS NOTED	

14 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EXISTING CONDITIONS PLAN (DGS).dwg LAST SAVED: 2022.06.15 01:12 PM PLOTTED: 2022.06.15 04:17 PM PLOTTED BY: Laura L. Ohl LAYOUT TAB: EXISTING CONDITIONS PLAN – CAMP LOOP C

CONSTRUCTION SEQUENCE

THE CONSTRUCTION PLANS HAVE BEEN DEVELOPED BASED ON AVAILABLE INFORMATION PROVIDED BY DCNR (INCLUDING A COMPREHENSIVE SITE SURVEY). THE PROJECT AREA INCLUDES EXISTING UTILITIES OF UNKNOWN LOCATION AND DEPTH. ACTUAL CONDITIONS MAY DIFFER FROM THE PLANS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONDITIONS PRIOR TO INITIATING WORK, AND FOR NOTIFYING THE DEPARTMENT IMMEDIATELY UPON BECOMING AWARE OF POTENTIAL CONFLICTS OR VARIATIONS IN CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UTILITY AND STRUCTURE LOCATIONS AND ELEVATIONS AS REQUIRED FOR CONSTRUCTION.

THE SITE WORK INCLUDES THE CONSTRUCTION OF MULTIPLE COMPONENTS INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF:

- EROSION AND SEDIMENTATION CONTROL MEASURES
- DEMOLITION OF ASSOCIATED SITE FEATURES AND REMOVAL OF PAVEMENT
- INSTALL NEW UTILITIES (STORMWATER, WATER, SANITARY SERVICE)
- STORMWATER PIPES AND STRUCTURES THAT CONVEY RUNOFF
- SITE IMPROVEMENT FEATURES
- PAVING AND STRIPING PARKING AREAS
- INSTALLATION OF LANDSCAPE COMPONENTS

DOCUMENTATION FOR THESE SITE COMPONENTS IS PROVIDED ON MULTIPLE PLAN SHEETS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF ALL SITE IMPROVEMENTS IN A MANNER TO AVOID CONFLICTS AND DAMAGE TO EXISTING SYSTEMS OR SITE COMPONENTS AS PART OF THIS PROJECT. UPON COMPLETION OR TEMPORARY CESSATION OF EARTH DISTURBANCE ACTIVITIES OR ANY STAGE THEREOF, THE PROJECT SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

1. STATE LAW REQUIRES A MINIMUM THREE DAY BUSINESS DAY NOTICE, BUT NOT MORE THAN TEN BUSINESS DAYS, PRIOR TO EARTH DISTURBANCE. ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES. CONFIRM LOCATIONS AND INVERTS.

2. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH DCNR PROJECT MANAGER AND DESIGN PROFESSIONAL OF RECORD. THE PROJECT DISTURBANCE AREA SHALL BE REVIEWED AT THIS MEETING. AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED TO OCCUR NO LESS THAN 7- DAYS PRIOR TO ANY EARTH DISTURBANCE UNLESS NOTIFIED OTHERWISE BY NERO DEP OR THE CARBON COUNTY CONSERVATION DISTRICT. PERMITTEES, CO-PERMITTEES, OPERATORS, ALL APPROPRIATE MUNICIPAL OFFICIALS, REPRESENTATIVES FROM THE CARBON COUNTY CONSERVATION DISTRICT AND THE NERO DEP, AND LICENSED PROFESSIONALS OR DESIGNEES RESPONSIBLE FOR THE EARTH DISTURBANCE ACTIVITY, INCLUDING IMPLEMENTATION OF E&S AND PCSM PLANS AND CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN, SHALL ATTEND A PRECONSTRUCTION MEETING. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES,

3. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY EXCEEDING 4 DAYS, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.

CAMP LOOP C

1. INSTALL CONSTRUCTION FENCING, ROCK CONSTRUCTION ENTRANCE, TREE PROTECTION, COMPOST SOCK AND SEDIMENT TRAP AS SHOWN ON THE PLAN. NO DISTURBANCE CAN TAKE PLACE OUTSIDE OF THE LIMIT OF DISTURBANCE.

2. REMOVE TOPSOIL ONLY IN AREAS TO BE GRADED AND STOCKPILE IN AREA DELINEATED ON PLAN. INSTALL COMPOST SOCK AROUND STOCKPILE AS SHOWN. TOPSOIL IS TO REMAIN SEPARATE FROM SUBSOIL MATERIAL. TOPSOIL IS NOT TO LEAVE THE SITE WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.

3. PERFORM SITE DEMOLITION OF EXISTING BUILDING AND STRUCTURES AS INDICATED ON PLAN. ONLY DEMOLISH EXISTING STORMWATER PIPES AND INLETS AS THEY ARE REPLACED OR AFTER NEW CONVEYANCE IS PROVIDED. EXISTING BUILDINGS TO BE DEMOLISHED AFTER NEW BUILDINGS ARE COMPLETE.

4. INSTALL INFILTRATION BED. (CRITICAL STAGE)

5. INSTALL STRUCTURES AND STORMWATER PIPES AS INDICATED ON POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN.

6. THE FOLLOWING ITEMS ARE TO BE INSTALLED AS APPROPRIATE TO LOCATION AND ELEVATIONS ON THE PLAN:
   b. PERFORM MAJOR EXCAVATIONS AND ROUGH GRADE FOR CURB INSTALLATION AS INDICATED ON GRADING PLAN, REMOVING ANY DELETERIOUS MATERIAL 2-INCHES OR LARGER. REMOVE EXCESS CUT FROM SITE AND DISPOSE OF IN A LEGAL MANNER IN ACCORDANCE WITH THE SOLID WASTE MANAGEMENT REGULATIONS.
   c. INSTALL BUILDING COMPONENTS AS REQUIRED.
12. INSTALL WATER AND SANITARY UTILITIES AS APPROPRIATE TO LOCATION AND ELEVATIONS ON PLAN. LIMIT THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME TO THAT WHICH CAN BE EXCAVATED AND BACK-FILLED IN ONE WORKING DAY. NO MORE THAN 50 LINEAR FEET OF OPEN TRENCH SHOULD EXIST WHEN UTILITY LINE INSTALLATION CEASES AT THE END OF ANY WORK DAY. IMMEDIATELY STABILIZE DISTURBED AREAS.

13. GRADE AS SHOWN ON PLANS AND DETAILS. INSTALL EROSION CONTROL BLANKET IN AREAS SHOWN FOLLOWING ESTABLISHMENT OF FINAL GRADE. COORDINATE INSTALLATION WITH RIPARIAN BUFFER INSTALLATION AND LANDSCAPE RESTORATION.

14. INSTALL PAVEMENT AS SHOWN ON PLANS AND DETAILS. FINAL WEARING COURSE FOR ALL ASPHALT TO BE INSTALLED FOLLOWING COMPLETION OF ALL 4 PHASES OF CONSTRUCTION.

15. STRIPE PARKING AREAS AND INSTALL ANY MISCELLANEOUS SITE FEATURES AS APPROPRIATE SUCH AS SIGNS, WHEEL STOPS, ETC. FOLLOWING WEARING COURSE INSTALLATION.

16. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED (VEGETATED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED), REMOVE TEMPORARY EROSION AND SEDIMENTATION INLET PROTECTION CONTROLS ONLY. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST ALSO BE STABILIZED IMMEDIATELY.

PCSM BMP INSTALLATION

1. TO AVOID SOIL DISTURBANCE AND COMPACTION DURING CONSTRUCTION, AREAS FOR PROPOSED INFILTRATION STORMWATER MANAGEMENT PRACTICES MUST BE PHYSICALLY STAKED OUT BEFORE ANY SITE WORK BEGINS.
2. THE GENERAL CONTRACTOR SHALL FENCE OFF THE LOCATIONS OF ANY FUTURE INFILTRATION AREAS. THESE AREAS SHALL BE PROTECTED FROM COMPACTION AND HEAVY VEHICLE DISTURBANCE THROUGHOUT CONSTRUCTION.
3. ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES.
4. ALL REGULATORY AGENCIES INCLUDING KIDDER TOWNSHIP AND THE LOCAL CONSERVATION DISTRICT SHOULD BE NOTIFIED FOR INSPECTION AT LEAST THREE (3) DAYS IN ADVANCE OF THE CONSTRUCTION OF STORMWATER MANAGEMENT PRACTICES.
5. REMOVE TOPSOIL ONLY IN AREAS TO BE GRADED AND STOCKPILE IN AREA DELINEATED ON PLAN. INSTALL COMPOST SOCK AROUND STOCKPILE AS SHOWN. TOPSOIL IS TO REMAIN SEPARATE FROM SUBSOIL MATERIAL. TOPSOIL IS NOT TO LEAVE THE SITE WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.
6. EXCAVATION WILL BE REQUIRED TO REMOVE SURFACE HARDPAN AND ACHIEVE FINAL INFILTRATION BED BOTTOM GRADES. ONCE FINAL EXCAVATION IS COMPLETED, USE ORANGE PLASTIC CONSTRUCTION FENCE OR OTHER MEANS AS NECESSARY TO PROTECT THESE AREAS FROM COMPACTION OR SILTATION.
7. THE PERMITTEE SHALL PROVIDE ENGINEERING CONSTRUCTION OVERSIGHT FOR THE PROPOSED STORMWATER BMPS. ADDITIONAL SOIL TESTING MAY BE REQUIRED PRIOR TO THE INSTALLATION OF BMPS TO ENSURE PROPER LOCATION AND FUNCTION. A LICENSED PROFESSIONAL ENGINEER KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF STORMWATER BMPS, PREFERABLY THE DESIGN PROFESSIONAL, SHALL CONDUCT THE OVERSIGHT.
8. ALL CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN REQUIRE THE DESIGN PROFESSIONAL TO BE PRESENT ON SITE.

9. INSTALL STORMWATER INFILTRATION BED *CRITICAL STAGE*
   9.1. INSTALL ANY REMAINING INLETS AND OVERFLOW CONTROL STRUCTURES INCLUDING RELATED E&S INLET PROTECTION. INSTALL PIPES. DO NOT ALLOW SEDIMENT TO ENTER ANY PIPES OR STRUCTURES
   9.2. EXISTING SUBGRADE MUST NOT BE COMPACTED AND CONSTRUCTION EQUIPMENT TRAFFIC MUST BE MINIMIZED PRIOR TO PLACEMENT OF GEOTEXTILE AND STONE. THE USE OF MACHINERY TO LOAD STONE FROM OUTSIDE OF FOOTPRINT IS RECOMMENDED. IF IT IS ESSENTIAL THAT EQUIPMENT BE USED IN THE EXCAVATED AREA, ALL EQUIPMENT MUST BE APPROVED BY THE DESIGN PROFESSIONAL. EQUIPMENT WITH NARROW TRACKS OR TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION AND MUST NOT BE USED. SHOULD SUBGRADE BE COMPACTED DURING CONSTRUCTION, ADDITIONAL TESTING OF SOIL INFILTRATION RATES MAY BE REQUIRED.
   9.3. BOTTOM OF BED IS TO BE PROTECTED FROM COMPACTION PER NOTES ON PCSM PLANS. TAKE CARE NOT TO EXCAVATE BELOW THE INDICATED BOTTOM OF THE BEDS.
   9.4. EXISTING SUBGRADE UNDER INFILTRATION BED AREAS SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO PLACEMENT OF GEOTEXTILE AND STONE BED.
   9.5. BRING SUBGRADE OF STONE INFILTRATION TO LINE, GRADE, AND ELEVATIONS INDICATED IN THE DRAWINGS. THE BOTTOM OF THE INFILTRATION BED MUST BE AT A LEVEL GRADE. THE DEPARTMENT AND DESIGN PROFESSIONAL SHALL BE NOTIFIED 24 HOURS PRIOR TO FINAL GRADING.
   9.6. IF BEDROCK OR GROUNDWATER IS ENCOUNTERED AT ANY TIME DURING EXCAVATION OF BEDS, EXCAVATION IS TO BE DISCONTINUED IN THE AFFECTED AREA AND THE DEPARTMENT AND DESIGN PROFESSIONAL NOTIFIED AT ONCE.
   9.7. NOTIFY DESIGN PROFESSIONAL TO INSPECT BED BOTTOM.
   9.8. PRIOR TO FINAL BED GRADING AND PLACEMENT OF GEOTEXTILE, UPGRADIENT AREAS SHALL BE SUFFICIENTLY STABILIZED SO AS TO PREVENT THE WASHING OF SEDIMENT INTO THE INFILTRATION AREAS. ALTERNATIVELY, THE GENERAL CONTRACTOR MAY INSTALL COMPOST SOCK IN ACCORDANCE WITH CONTRACT DOCUMENTS. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PREVENT THE DEPOSITION OF SEDIMENT OR SEDIMENT LADEN WATERS INTO THE INFILTRATION BEDS AFTER FINAL GRADING.
   9.9. PLACE GEOTEXTILE AND RECHARGE BED AGGREGATE IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION TO PREVENT ACCUMULATION OF DEBRIS OR SEDIMENT. ANY ACCUMULATION OF DEBRIS OR SEDIMENT WHICH HAS TAKEN PLACE AFTER APPROVAL OF SUBGRADE SHALL BE REMOVED PRIOR TO INSTALLATION OF GEOTEXTILE AT NO EXTRA COST TO THE DEPARTMENT. AGGREGATE INSTALLATION SHOULD TAKE PLACE AFTER CONTRIBUTING UPSTREAM DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
   9.10. PLACE GEOTEXTILE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF GEOTEXTILE FABRIC MUST OVERLAP A MINIMUM OF SIXTEEN INCHES (16"). FABRIC MUST BE SECURED AT LEAST FOUR FEET OUTSIDE OF BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE IS FULLY WRAPPED.
   9.11. INSTALL COARSE AGGREGATE IN EIGHT INCH (8") MAXIMUM LIFTS. LIGHTLY COMPACT EACH LAYER WITH EQUIPMENT, KEEPING EQUIPMENT MOVEMENT OVER STORAGE BEDS SUBGRADES TO A MINIMUM. INSTALL AGGREGATE TO GRADES SHOWN ON THE DRAWINGS.
   9.12. AGGREGATE SHALL BE CLEAN WITH A WASH LOSS OF NO MORE THAN 0.5%. AGGREGATE THAT DOES NOT MEET THIS CRITERIA WILL BE REMOVED AT NO EXTRA COST TO THE DEPARTMENT, AND THE BEDS RESTORED TO THE DEPARTMENT'S SATISFACTION.
   9.13. CONTINUE TO WRAP ENTIRE AGGREGATE STORAGE BED WITH GEOTEXTILE PRIOR TO BACKFILL.

10. INSTALL REMAINING STORMWATER STRUCTURES AND PIPES AS INDICATED ON POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN.
11. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT APPROPRIATE REGULATORY AGENCIES FOR A FINAL INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
12. REMOVE TEMPORARY EROSION CONTROL MEASURES AS APPROPRIATE.
13. THE NPDES NOTICE OF TERMINATION (N.O.T.) MUST BE SUBMITTED TO PA DEP UPON COMPLETION OF CONSTRUCTION (WHEN APPLICABLE).

THE FOLLOWING ARE CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN FOR WHICH THE DESIGN PROFESSIONAL SHOULD BE PRESENT ON SITE:
1. INFILTRATION BED EXCAVATION
2. INFILTRATION BED INSTALLATION
3. RAIN GARDEN INSTALLATION
4. INFILTRATION BERM INSTALLATION
5. LEVEL SPREADER INSTALLATION
6. LANDSCAPE RESTORATION

			Small Commercial Buildings		Shallow Excavations		Unpaved Local Roads and Streets		
	Map unit symbol	Map unit name	Rating	Rating reasons (numeric values)	Rating	Rating reasons (numeric values)	Rating	Rating reasons (numeric values)	Resolutions
LOOP C	WvB	Wurtsboro very stony loam, 0 to 8 percent slopes	Somewhat limited	Depth to saturated zone (0.72) Slope (0.00)	Very limited	Depth to saturated zone (1.00) Dusty (0.44) Unstable excavation walls (0.01) Dense layer (0.50)	Somewhat limited	Frost action (0.50) Depth to saturated zone (0.39) Dusty (0.02)	Future Building sites were evaluated for subsurface conditions and those conditions informed the design of foundations. All roadwork proposed is the restoration of existing unpaved access roads within the park therefore the subbase and general conditions below the unpaved road have previously been improved and addressed for frost action and saturation depth. Geotechnical investigations have also identified depth to saturated zones and this information has also informed design of stormwater features which account for most shallow excavations on site. Utility installations are at risk of conflict with rock, cemented pans, saturated zones, and also unstable excavation walls and notes have been included to notify Engineer should these undesireable conditions be discovered during construction. All access roads are unpaved but improved roads which will limit dusty conditions of the native soil.
	WuA	Wurtsboro channery loam, 0 to 3 percent slopes	Somewhat limited	Depth to saturated zone (0.72)	Very limited	Depth to saturated zone (1.00) Unstable excavation walls (0.01) Dusty (0.45) Dense layer (0.50)	Somewhat limited	Depth to saturated zone (0.39) Frost action (0.50) Dusty (0.01)	

PCSM BMP MAINTENANCE SCHEDULE

BMP TYPE	INSPECTION SCHEDULE	MAINTENANCE DIRECTIONS	REPAIRS
INFILTRATION BERMS/LEVEL SPREADERS	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS AND IF SIGNS OF EROSION OR VEGETATION DAMAGE OCCUR	REMOVE DEBRIS FROM BMPS REGULARLY. INSPECT FOR SIGNS OF EROSION (GULLIES) AND DAMAGE TO VEGETATION.	REPAIR ERODED AREAS BY ADJUSTING GRADES PER DESIGN TO AVOID CONCENTRATED FLOWS BY USING EROSION CONTROL BLANKET OR BY ESTABLISHING VEGETATION. DAMAGE TO VEGETATION SHOULD BE CONDUCTED PER THE ADVICE OF A QUALIFIED PROFESSIONAL.
STORMWATER STRUCTURES AND PIPES	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS	REMOVE DEBRIS FROM STRUCTURES REGULARLY AND FROM PIPES WHEN	REPAIR DAMAGED PIPES AND STRUCTURES AS NEEDED.
SUBSURFACE STORAGE BEDS	DURING INSTALLATION AND IF SIGNS OF CLOGGING OCCUR	ENSURE PIPES AND STRUCTURES CONVEYING WATER TO BEDS ARE CLEAR TO PREVENT CLOGGING.	CLOGGED SUBSURFACE STORAGE BEDS MAY NEED TO BE REPLACED OR EQUIPPED WITH AN UNDERDRAIN IN THE CASE OF FAILURE.

NOTE: UNDER NO CIRCUMSTANCES SHALL SEDIMENT OR WASTE REMOVED FROM THE SYSTEMS BE DISPOSED OF ONSITE. ALL SEDIMENT AND/OR WASTE SHALL BE REMOVED OFF-SITE AND IN A LEGAL MANNER.

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080420
06/15/22
SIGNATURE DATE

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SEQUENCE OF CONSTRUCTION – CAMP LOOP C

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-2
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

15 OF 144

FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027 – EROSION AND SEDIMENT CONTROL NOTES.dwg
LAST SAVED: 2022.06.15 03:58 PM PLOTTED: 2022.06.15 04:11 PM LAYOUT TAB: SEQUENCE OF CONSTRUCTION – CAMP LOOP C PLOTTED BY: Laura L. Gill

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- TREE PROTECTION
- COMPOST SOCK
- CONSTRUCTION FENCE
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- SEDIMENT TRAP
- INFILTRATION STAKEOUT FENCE
- NEW BUILDING

40 0 40 80

1 INCH = 40 FEET

Map Unit Symbol	Map Unit Name	Rating
WuA	Wurtsboro channery loam, 0 to 3 percent slopes	Somewhat Limited
WvB	Wurtsboro very stony loam, 0 to 8 percent slopes	Somewhat Limited

115 LF 12" COMPOST SOCK 7

1,039 SF (0.02 AC.) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE

CONSTRUCTION FENCE (TYP.)
INSTALL FOR DEMOLITION, OTHERWISE FACILITY TO BE ACCESSIBLE TO PUBLIC FOR USE

95 LF 12" COMPOST SOCK 1

42,676 SF (0.98) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE

PROPOSED INFILTRATION BED
INFILTRATION FACILITY STAKEOUT

COMPOST SOCK SEDIMENT TRAP
1500 SF x 2.5' HEIGHT

CONSTRUCTION FENCE (TYP.)
INSTALL AROUND LATRINE FOR DEMOLITION, OTHERWISE FACILITY TO BE ACCESSIBLE TO PUBLIC FOR USE

29 LF 12" COMPOST SOCK 4

39 LF 12" COMPOST SOCK 3

45 LF 12" COMPOST SOCK 2

GENERAL CONTRACTOR TO RELOCATE CONSTRUCTION FENCE TO CONSTRUCT UTILITY

CONSTRUCTION FENCE (TYP.)

977 SF (0.02 AC.) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE

74 LF 12" COMPOST SOCK 5

26 LF 12" COMPOST SOCK 6

CONSTRUCTION FENCE (TYP.)
INSTALL FOR DEMOLITION, OTHERWISE FACILITY TO BE ACCESSIBLE TO PUBLIC FOR USE

SOIL STOCKPILE

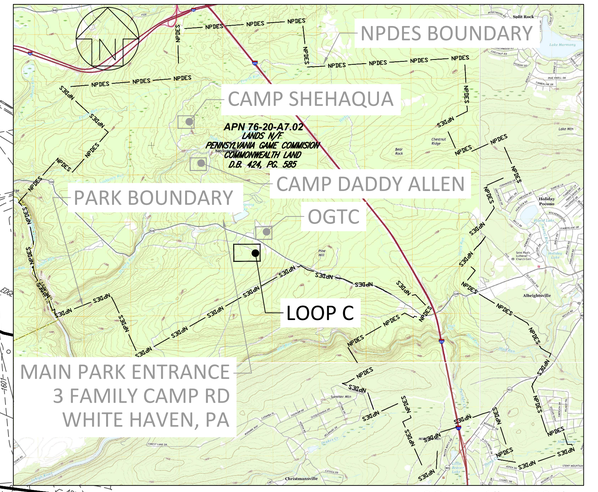
CONSTRUCTION GATE

ROCK CONSTRUCTION ENTRANCE

CONCRETE WASHOUT

APN 76-20-A7.02
LANDS N/F
PENNSYLVANIA GAME COMMISSION
COMMONWEALTH LAND
D.B. 424, Pg. 585

SITE LOCATION



SCALE: 1" = 5000'

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

CONSTRUCTION DOCUMENTS

NOTES:

- NO EARTHMOVING ACTIVITIES OR CONSTRUCTION TRAFFIC SHALL OCCUR OVER PROPOSED INFILTRATION AREAS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PUMPING PIT LATRINE AND DECOMMISSIONING SYSTEM PER PA DEP STANDARDS. ALL STRUCTURES SHALL BE REMOVED WITHIN 3 FT. OF GRADE. SITE OF LATRINE BUILDING IS TO BE RESTORED TO EXISTING GRADE, PERMANENTLY SEEDED, AND STABILIZED.
- CONSTRUCTION FENCING AND DEMOLITION IS TO BE PHASE TO PROVIDE ACCESS TO EXISTING LATRINE FACILITIES THROUGH THE EXTENT OF CONSTRUCTION UNTIL NEW FACILITIES ARE ONLINE AND AVAILABLE FOR PUBLIC USE. CONTRACTOR IS TO DEPLOY FENCING IN SUCH A WAY AS TO ENSURE DOORS TO LATRINE ARE ACCESSIBLE TO THE PUBLIC DURING CONSTRUCTION OF THE NEW FACILITY AND ONLY FENCE OFF LATRINES TO BE DEMOLISHED FOLLOWING OPENING OF NEW FACILITIES. RELOCATION OF FENCE DURING CONSTRUCTION IS INCLUDED AS PART OF THIS WORK.
- TYPE 2.D DOUBLE NET EROSION CONTROL BLANKET - PROCESSED DEGRADABLE NATURAL FIBERS MECHANICALLY BOUND TOGETHER BETWEEN TWO RAPIDLY DEGRADING, NATURAL FIBER NETS. NO SYNTHETIC FIBERS PERMITTED.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY DCNR FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080430

06/15/22
SIGNATURE DATE

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1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EROSION AND SEDIMENT CONTROL PLAN – CAMP LOOP C

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-3
CHECKED BY	SCALE	of 44
M HENDERSON	AS NOTED	

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL PLAN.dwg
LAST SAVED: 2022.12.05 08:43 AM PLOTTED: 2022.12.05 08:45 AM PLOTTED BY: Marc Henderson
LAYOUT TAB: EROSION AND SEDIMENT CONTROL PLAN – CAMP LOOP C

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- × TREE TO BE REMOVED
- ○ TREE TO BE PROTECTED
- ⊗ TREE TO BE IMPACTED
- ● UTILITY STRUCTURE REMOVAL
- UTILITY LINE REMOVAL
- BUILDING DEMOLITION
- CONCRETE DEMOLITION

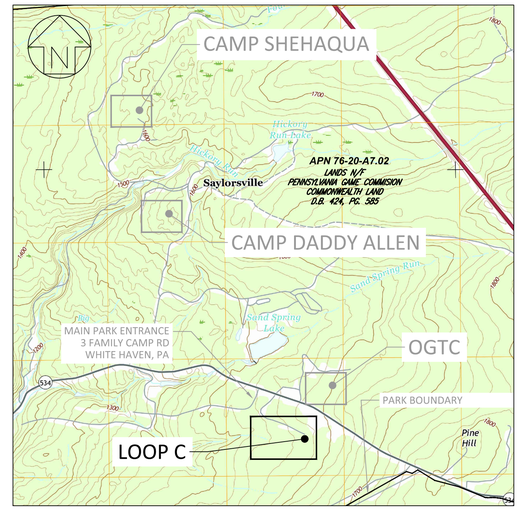
NOTES:
1. TREE STUMPS TO BE LEFT SHALL BE CUT LESS THAN 5 INCHES HIGH.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR PUMPING PIT LATRINES AND DECOMMISSIONING SYSTEM PER PA DEP STANDARDS. ALL STRUCTURES SHALL BE REMOVED WITHIN 3 FT. OF GRADE. SITE OF LATRINE BUILDING IS TO BE RESTORED TO EXISTING GRADE, PERMANENTLY STABILIZED.

40 0 40 80
1 INCH = 40 FEET

199 SF BUILDING DEMOLITION
285 SF CONCRETE DEMOLITION
DEMOLITION FOOTPRINT TO BE RESEEDED AND REGRADED TO MATCH EXISTING GRADE
1,039 SF (0.02 AC.) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE
42,676 SF (0.98) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE
INFILTRATION AREAS TO BE PROTECTED WITH CONSTRUCTION FENCE
230 SF CONCRETE DEMOLITION
DRAINAGE PIPES TO REMAIN. GENERAL CONTRACTOR TO COORDINATE INSTALLATION OF SEWER TO MAINTAIN DRAINAGE THROUGH PIPES AT ALL TIMES.
DEMOLITION FOOTPRINT TO BE RESEEDED AND REGRADED TO MATCH EXISTING GRADE
246 SF BUILDING DEMOLITION
67 TOTAL TREES TO BE REMOVED
TREE IMPACTED BY WORK (TYP.) REMOVE TRUNK BUT STUMP TO REMAIN.
977 SF (0.02 AC.) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE
200 LF TREE PROTECTION
DEMOLITION FOOTPRINT TO BE RESEEDED AND REGRADED TO MATCH EXISTING GRADE
244 SF BUILDING DEMOLITION
210 SF CONCRETE DEMOLITION

APN 76-20-A7.02
LANDS N/F
PENNSYLVANIA GAME COMMISSION
COMMONWEALTH LAND
D.B. 424, Pg. 585

SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

meliora
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(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080430

06/15/22
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1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

DEMOLITION PLAN – CAMP LOOP C

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C–4
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

17 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 – DEMOLITION PLAN.dwg
LAST SAVED: 2022.06.15 10:23 AM PLOTTED: 2022.06.15 04:15 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: DEMOLITION PLAN – CAMP LOOP C

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- 1519 CONTOUR
- ST STORM PIPE
- INFILTRATION BED
- RAIN GARDEN
- TP/B-9 SOIL TEST PIT (TP) OR BORING (B) LOCATION
- OBSERVATION WELL

NOTES:
1. PROPOSED SANITARY AND/OR ELECTRICAL UTILITY CLEARING TO BE REGRADED TO MATCH EXISTING GRADE AND REMAIN CLEARED AND OPEN FOR PEDESTRIAN ACCESS.
2. GENERAL CONTRACTOR RESPONSIBLE FOR CONNECTIONS FROM BUILDING DOWNSPOUTS TO STORMWATER SYSTEM. DOWNSPOUT CONNECTIONS VARY BY TYPE AND LOCATION. SEE PLANS FOR DOWNSPOUT CONNECTION DETAILS.

10 0 10 20
1 INCH = 10 FEET

BORING ID	SURFACE ELEVATION	BORING DEPTH	OBSERVED WATER SURFACE DEPTH
B-1	1588.5' ±	25'	N/A

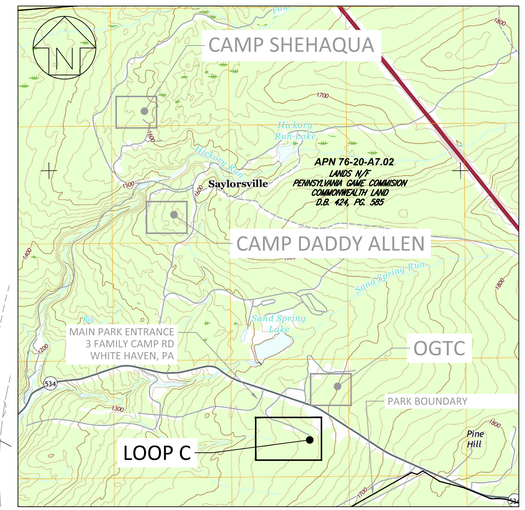
STORMWATER TEST PIT ID	SURFACE ELEVATION	PIT DEPTH	TEST DEPTH	AVERAGE FIELD INFIL. RATE (IN/HR)	FACTOR OF SAFETY	DESIGN INFIL. RATE (IN/HR)
TP-2	1586'	5'	7'	0.59	2	0.30

42,676 SF (0.98) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE

31 LF 12" DIA. HDPE @ 2.3%
6 LF 6" DIA. HDPE @ 17.5% CONNECT AT 1585.590
19 LF 12" DIA. HDPE @ 2.3%
6 LF 6" DIA. HDPE @ 24.2% CONNECT AT 1585.590
35 LF 12" DIA. HDPE @ 2.2%
6 LF 6" DIA. HDPE @ 38.9% CONNECT AT 1585.590
22 LF 12" DIA. HDPE @ 3.5%
220 LF INFILTRATION FACILITY PROTECTION - ORANGE CONSTRUCTION FENCE
INFILTRATION BED IBED-1
2,000 SF LEVEL BED BOTTOM
13 LF 12" DIA. HDPE @ 4.8%
92 LF 12" DIA. HDPE @ 1.0%
64 LF 4" FOUNDATION DRAIN PIPE
20 LF LEVEL SPREADER
INV. OUT = 1580.94
6 LF 6" DIA. HDPE @ 6.5% CONNECT AT 1585.590
5 LF 6" DIA. HDPE @ 1.5% CONNECT AT 1585.590
30 LF 12" DIA. HDPE @ 1.0%
5 LF 6" DIA. HDPE @ 4.5% CONNECT AT 1585.590
26 LF 12" DIA. HDPE @ 1.0%
7 LF 6" DIA. HDPE @ 12.6% CONNECT AT 1585.590
26 LF 12" DIA. HDPE @ 1.0%
66 LF 12" DIA. HDPE @ 2.5%
5 LF 6" DIA. HDPE @ 22.9% CONNECT AT 1585.590
18 LF 12" DIA. HDPE @ 4.0%

TP-2
B-1
PROPOSED TOP OF GRAVEL (OUT)
GRAVEL DRIVE
PICNIC TABLE (TYP.)
1 STY. FRAME BUILDING B.F.P.A.= 194± S.F.
ASPHALT
WOOD FENCE
CHAIN LINK FENCE
O.H. CANOPY
MH EM=584.79
WOODED AREA
EDGE OF WOODS
TOP OF BANK

SITE LOCATION



SCALE: 1" = 2000'

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

CONSTRUCTION DOCUMENTS

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(610) 933-0123
melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420
06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

STORMWATER AND GRADING PLAN – CAMP LOOP C

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-5
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

18 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - STORMWATER AND GRADING PLAN - CAMP LOOP C
LAST SAVED: 2022.06.13 10:43 AM PLOTTED: 2022.06.15 04:17 PM PLOTTED BY: Laura L Gill
LAYOUT TAB: STORMWATER AND GRADING PLAN - CAMP LOOP C

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED CONCRETE
- PROPOSED DRIVING SURFACE AGGREGATE
- PROPOSED RAIN GARDEN SEED MIX
- PROPOSED LANDSCAPE RESTORATION
- PROPOSED TRAIL SURFACE AGGREGATE

10 0 10 20

1 INCH = 10 FEET

42,676 SF (0.98) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE

29,474 SF ERNST PARTIAL SHADED ROADSIDE MIX

383 SF TRAIL SURFACE AGGREGATE (TSA)
4' WIDTH

N: 318284.65'
E: 2539546.68

39'-6"

1,786 SF SIDEWALK DOWELED TO FOUNDATION
SEE STRUCTURAL PLANS FOR DETAILS

1,913 SF DRIVING SURFACE AGGREGATE (DSA)

65'-4"

99'-4"

34'

39'-6"

20'

729 SF TRAIL SURFACE AGGREGATE (TSA)
4' WIDTH

VEHICULAR SLAB
SEE STRUCTURAL PLANS FOR DETAILS

B-1

TP-2

GRAVEL DRIVE

PICNIC TABLE

T20 FIRE PIT W/GRILL

1 STORY FRAME BUILDING
B.F.P.A.= 194± S.F.
ASPHALT

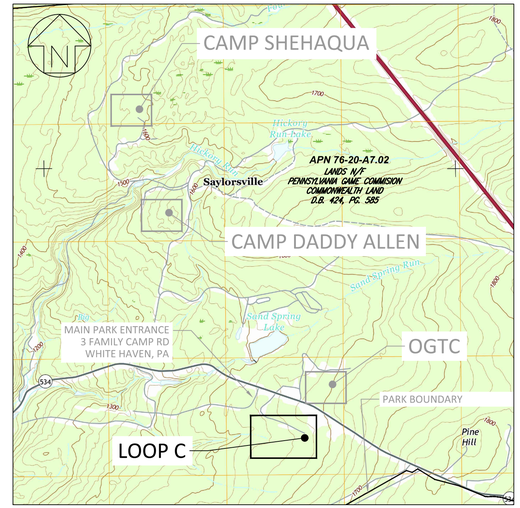
WOODED FENCE

CANOPY

APPROX. LOC. OF U.G. WATER LINE (PER WELL #3 WARRANT)

WV

SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

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(610) 933-0123 melioradesign.com

RECORD REVISIONS

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REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080430

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SITE PLAN - CAMP LOOP C

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-6
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

19 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - LANDSCAPING PLAN.dwg
LAST SAVED: 2022.05.05 11:02 AM PLOTTED: 2022.06.15 04:19 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: SITE PLAN - CAMP LOOP C

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED CONCRETE
- PROPOSED DRIVING SURFACE AGGREGATE
- PROPOSED TRAIL SURFACE AGGREGATE
- SEWER MANHOLE
- SEWER CLEANOUT
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED ELECTRIC LINE
- STORM PIPE

40 0 40 80

1 INCH = 40 FEET

1,039 SF (0.02 AC.) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE

LP GAS SUPPLY TANK TO BE PROVIDED BY PLUMBING CONTRACTOR AND CONCRETE SLAB TO BE PROVIDED BY GENERAL CONTRACTOR

DRAIN PIT FOR WATER SERVICE, TYP.

86 LF LP GAS SUPPLY TO BE PROVIDED BY PLUMBING CONTRACTOR

70 LF 3" Ø SDR9 HDPE @ 4'-6" MIN. COVER

42,676 SF (0.98) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE

250 LF 8" DIA. PVC @ 1.1%

Structure - (8)
RIM - 1568.99
INV. IN (SE) - 1563.03
INV. OUT (NW) - 1562.93

250 LF 8" DIA. PVC @ 1.1%

Structure - (7)
RIM - 1572.68
INV. IN (SE) - 1565.79
INV. OUT (NW) - 1565.68

250 LF 8" DIA. PVC @ 4.3%

Structure - (2)
RIM - 1581.73
INV. IN (NE) - 1576.60
INV. OUT (NW) - 1576.50

168 LF 8" DIA. PVC @ 3.0%

WATER VALVE (TYP.)

WATER FOUNTAIN AND WATER SERVICE BY PLUMBING CONTRACTOR
SEE PLUMBING DRAWINGS FOR DETAILS

SEWER CLEANOUT, TYP.

977 SF (0.02 AC.) LIMIT OF DISTURBANCE
44,692 SF (1.03 AC) CAMP LOOP C LIMIT OF DISTURBANCE

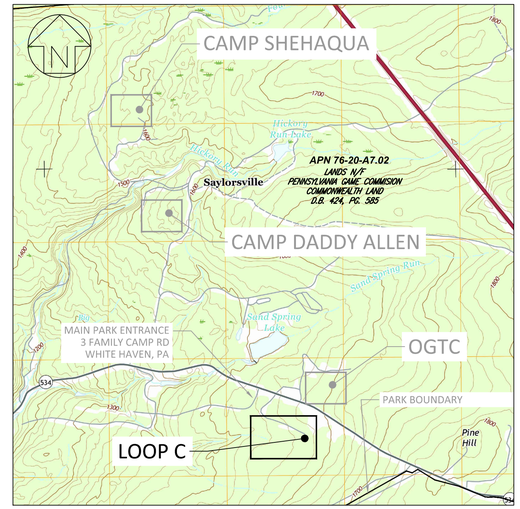
230 LF ELEC. CONDUIT BY ELECTRICAL CONTRACTOR AND SERVICE CABLES BY PPL

APN 76-20-A7.02
LANDS N/F
PENNSYLVANIA GAME COMMISSION
COMMONWEALTH LAND
D.B. 424, PG. 585

Notes

1. ALL NEW WATER SERVICE TO HAVE 54" MIN. COVER.
2. ELECTRICAL CONTRACTOR TO PROVIDE TRENCHING, BEDDING, AND BACKFILL PER PPL SPECIFICATIONS AND UTILITY DETAILS FOR ALL ELECTRICAL SERVICES NOTED ON PLANS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE FULLY WITH PPL DURING CONSTRUCTION FOR THE INSTALLATION OF THE ELECTRICAL SERVICE AT EACH SITE. SEE NOTES FOR EXTRA CLARIFICATION OF SCOPE ON A SITE BY SITE BASIS.
3. PLUMBING CONTRACTOR TO PROVIDE TRENCHING, BEDDING, AND BACKFILL PER UTILITY DETAILS FOR ALL WATER AND GAS SERVICES NOTED ON PLANS.
4. PLUMBING CONTRACTOR TO PROVIDE INSTALLATION OF PROPANE TANK AND SUPPLY LINE TO CONNECT GAS SERVICE. GENERAL CONTRACTOR TO PROVIDE DEVELOPED SITE AND ENCLOSURE PER PLANS FOR TANK INSTALLATION.
5. PLUMBING CONTRACTOR TO PROVIDE WATER SERVICE TO WATER FOUNTAINS AND DRAIN PITS FOR WATER SERVICE. SEE PLUMBING DRAWINGS FOR DETAILS.
6. ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE GENERAL CONTRACTOR EXCEPT WORK NOTED TO BE BY THE PLUMBING CONTRACTOR OR ELECTRICAL CONTRACTOR.

SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123
melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080420

SIGNATURE 06/15/22 DATE

SMP ARCHITECTS
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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY PLAN –
CAMP LOOP C

VERIFY SCALE

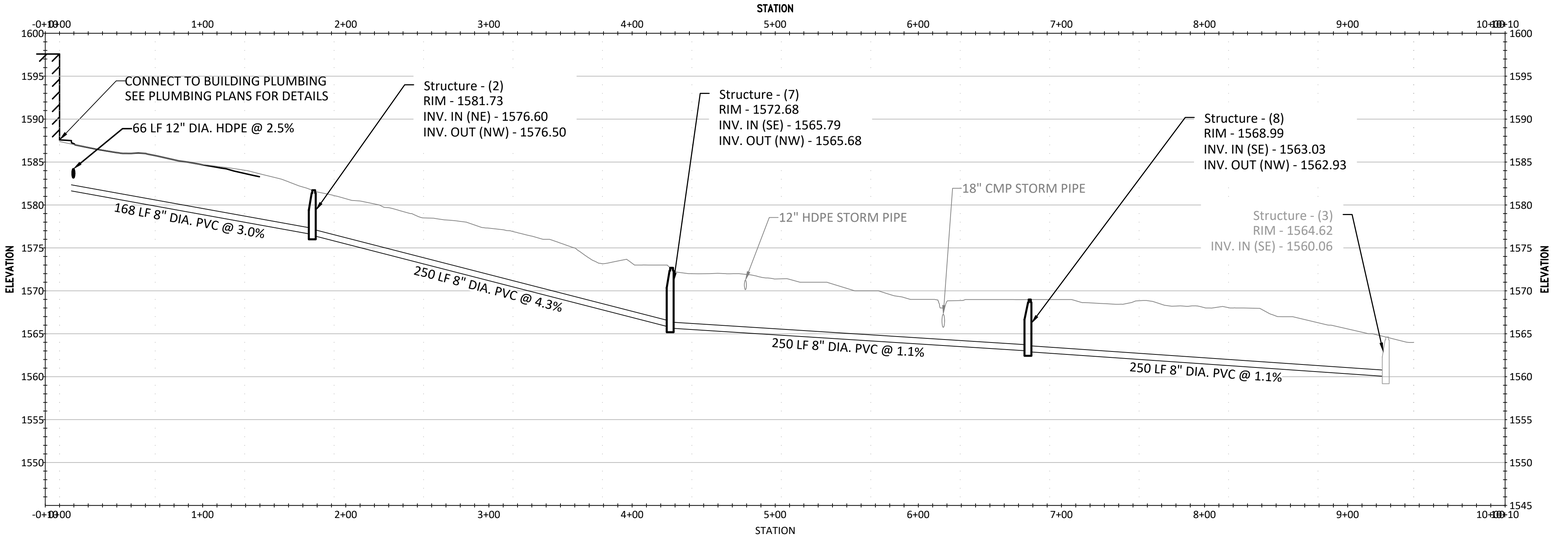
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

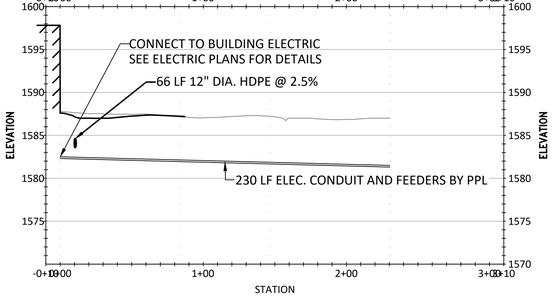
DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	CPE–7
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

20 OF 144

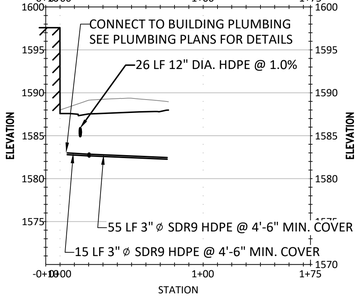
FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027 – UTILITY PLAN.dwg
LAST SAVED: 2022.06.17 04:45 PM PLOTTED: 2022.06.22 03:41 PM BY: Laura L. Gill
LAYOUT TAB: UTILITY PLAN – CAMP LOOP C



1 CPE-8 **PROFILE VIEW**
CAMP LOOP C - SANITARY SEWER 1"=50' H, 1"=10' V



1 CPE-8 **PROFILE VIEW**
CAMP LOOP C - ELECTRIC LINE 1"=50' H, 1"=10' V



3 CPE-8 **PROFILE VIEW**
CAMP LOOP C - WATER LINE 1"=50' H, 1"=10' V

NOTES:

1. WATER AND SEWER LINES TO BE INSTALLED BELOW FROST DEPTH.
2. ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE GENERAL CONTRACTOR EXCEPT WORK NOTED TO BE BY THE PLUMBING CONTRACTOR OR ELECTRICAL CONTRACTOR.

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY PROFILES – CAMP LOOP C

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	CPE–8
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

21 OF 144

FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027–UTILITY PROFILES.dwg
LAST SAVED: 2022.06.17 02:52 PM PLOTTED: 2022.06.17 04:16 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: UTILITY PROFILES – CAMP LOOP C

S —— EXISTING 6" PVC GRAVITY SEWER

W —— EXISTING WATER MAIN

EXISTING UTILITY POLE

P —— EXISTING POWER LINE

EXISTING TREE

EXISTING CONTOUR

LEGAL RIGHT-OF-WAY LINE

EXISTING EDGE OF PAVEMENT

Abcde TEXT FOR EXISTING ITEMS

ABCDE TEXT FOR EXISTING ITEMS

WOODS LINE

EXISTING STORM SEWER

EXISTING SANITARY MANHOLE

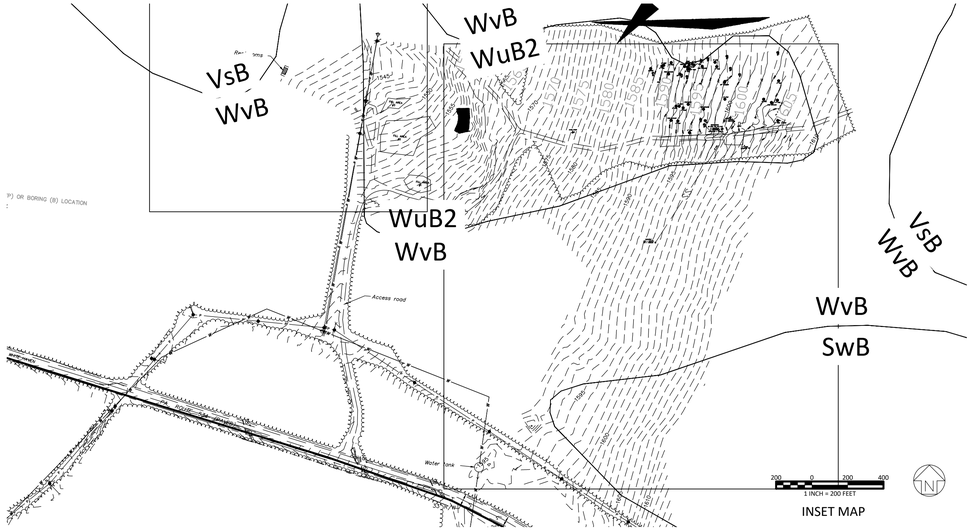
TP/B-9 SOIL TEST PIT (TP) OR BORING (B) LOCATION

SLOPES 15%–25%

SLOPES >25%

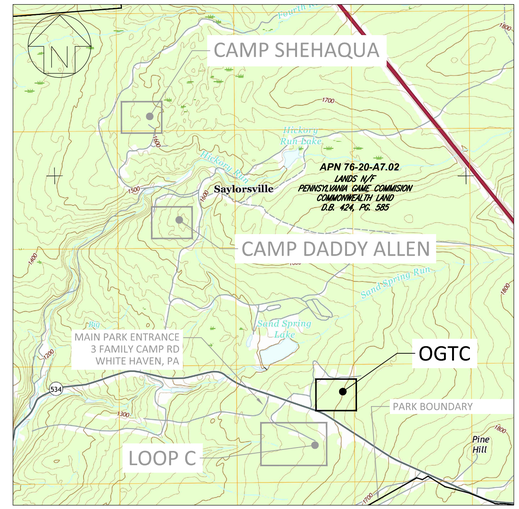
25 0 25 50

1 INCH = 25 FEET



INSET MAP

SITE LOCATION



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C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EXISTING CONDITIONS PLAN – OGTC

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DRAWN BY	DATE	DRAWING No.
	06/17/2022	C-9
CHECKED BY	SCALE	
	AS NOTED	

22 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EXISTING CONDITIONS PLAN (DGS).dwg LAYOUT TAB: EXISTING CONDITIONS PLAN – OGTC
LAST SAVED: 2022.06.15 01:12 PM PLOTTED: 2022.06.15 04:19 PM PLOTTED BY: Laura L. Gill

CONSTRUCTION SEQUENCE

THE CONSTRUCTION PLANS HAVE BEEN DEVELOPED BASED ON AVAILABLE INFORMATION PROVIDED BY DCNR (INCLUDING A COMPREHENSIVE SITE SURVEY). THE PROJECT AREA INCLUDES EXISTING UTILITIES OF UNKNOWN LOCATION AND DEPTH. ACTUAL CONDITIONS MAY DIFFER FROM THE PLANS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONDITIONS PRIOR TO INITIATING WORK, AND FOR NOTIFYING THE DEPARTMENT IMMEDIATELY UPON BECOMING AWARE OF POTENTIAL CONFLICTS OR VARIATIONS IN CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UTILITY AND STRUCTURE LOCATIONS AND ELEVATIONS AS REQUIRED FOR CONSTRUCTION.

THE SITE WORK INCLUDES THE CONSTRUCTION OF MULTIPLE COMPONENTS INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF:

- EROSION AND SEDIMENTATION CONTROL MEASURES
- DEMOLITION OF ASSOCIATED SITE FEATURES AND REMOVAL OF PAVEMENT
- INSTALL NEW UTILITIES (STORMWATER, WATER, SANITARY SERVICE)
- STORMWATER PIPES AND STRUCTURES THAT CONVEY RUNOFF
- SITE IMPROVEMENT FEATURES
- PAVING AND STRIPING PARKING AREAS
- INSTALLATION OF LANDSCAPE COMPONENTS

DOCUMENTATION FOR THESE SITE COMPONENTS IS PROVIDED ON MULTIPLE PLAN SHEETS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF ALL SITE IMPROVEMENTS IN A MANNER TO AVOID CONFLICTS AND DAMAGE TO EXISTING SYSTEMS OR SITE COMPONENTS AS PART OF THIS PROJECT. UPON COMPLETION OR TEMPORARY CESSATION OF EARTH DISTURBANCE ACTIVITIES OR ANY STAGE THEREOF, THE PROJECT SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

1. STATE LAW REQUIRES A MINIMUM THREE DAY BUSINESS DAY NOTICE, BUT NOT MORE THAN TEN BUSINESS DAYS, PRIOR TO EARTH DISTURBANCE. ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES. CONFIRM LOCATIONS AND INVERTS.

2. THE GENERAL CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH DCNR PROJECT MANAGER AND DESIGN PROFESSIONAL OF RECORD. THE PROJECT DISTURBANCE AREA SHALL BE REVIEWED AT THIS MEETING. AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED TO OCCUR NO LESS THAN 7- DAYS PRIOR TO ANY EARTH DISTURBANCE UNLESS NOTIFIED OTHERWISE BY NERO DEP OR THE CARBON COUNTY CONSERVATION DISTRICT. PERMITTEES, CO-PERMITTEES, OPERATORS, ALL APPROPRIATE MUNICIPAL OFFICIALS, REPRESENTATIVES FROM THE CARBON COUNTY CONSERVATION DISTRICT AND THE NERO DEP, AND LICENSED PROFESSIONALS OR DESIGNEES RESPONSIBLE FOR THE EARTH DISTURBANCE ACTIVITY, INCLUDING IMPLEMENTATION OF E&S AND PCSM PLANS AND CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN, SHALL ATTEND A PRECONSTRUCTION MEETING. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES,

3. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY EXCEEDING 4 DAYS, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.

OGTC

1. INSTALL CONSTRUCTION FENCING, ROCK CONSTRUCTION ENTRANCE, TREE PROTECTION, COMPOST SOCK AND SEDIMENT TRAP AS SHOWN ON THE PLAN. NO DISTURBANCE CAN TAKE PLACE OUTSIDE OF THE LIMIT OF DISTURBANCE.

2. REMOVE TOPSOIL ONLY IN AREAS TO BE GRADED AND STOCKPILE IN AREA DELINEATED ON PLAN. INSTALL COMPOST SOCK AROUND STOCKPILE AS SHOWN. TOPSOIL IS TO REMAIN SEPARATE FROM SUBSOIL MATERIAL. TOPSOIL IS NOT TO LEAVE THE SITE WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.

3. PERFORM REMOVAL OF PRIVY AS INDICATED ON PLAN.

4. INSTALL RAIN GARDEN. (CRITICAL STAGE)

5. INSTALL STRUCTURES AND STORMWATER PIPES AS INDICATED ON POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN.

6. THE FOLLOWING ITEMS ARE TO BE INSTALLED AS APPROPRIATE TO LOCATION AND ELEVATIONS ON THE PLAN:
   b. PERFORM MAJOR EXCAVATIONS AND ROUGH GRADE FOR CURB INSTALLATION AS INDICATED ON GRADING PLAN, REMOVING ANY DELETERIOUS MATERIAL 2-INCHES OR LARGER. REMOVE EXCESS CUT FROM SITE AND DISPOSE OF IN A LEGAL MANNER IN ACCORDANCE WITH THE SOLID WASTE MANAGEMENT REGULATIONS.
   c. INSTALL BUILDING COMPONENTS AS REQUIRED.

12. INSTALL WATER AND SANITARY UTILITIES AS APPROPRIATE TO LOCATION AND ELEVATIONS ON PLAN. LIMIT THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME TO THAT WHICH CAN BE EXCAVATED AND BACK-FILLED IN ONE WORKING DAY. NO MORE THAN 50 LINEAR FEET OF OPEN TRENCH SHOULD EXIST WHEN UTILITY LINE INSTALLATION CEASES AT THE END OF ANY WORK DAY. IMMEDIATELY STABILIZE DISTURBED AREAS.

13. GRADE AS SHOWN ON PLANS AND DETAILS. INSTALL EROSION CONTROL BLANKET IN AREAS SHOWN FOLLOWING ESTABLISHMENT OF FINAL GRADE. COORDINATE INSTALLATION WITH RIPARIAN BUFFER INSTALLATION AND LANDSCAPE RESTORATION.

14. INSTALL PAVEMENT AS SHOWN ON PLANS AND DETAILS. FINAL WEARING COURSE FOR ALL ASPHALT TO BE INSTALLED FOLLOWING COMPLETION OF ALL 4 PHASES OF CONSTRUCTION.

15. STRIPE PARKING AREAS AND INSTALL ANY MISCELLANEOUS SITE FEATURES AS APPROPRIATE SUCH AS SIGNS, WHEEL STOPS, ETC. FOLLOWING WEARING COURSE INSTALLATION.

16. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED (VEGETATED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED), REMOVE TEMPORARY EROSION AND SEDIMENTATION INLET PROTECTION CONTROLS ONLY. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST ALSO BE STABILIZED IMMEDIATELY.

PCSM BMP INSTALLATION

1. TO AVOID SOIL DISTURBANCE AND COMPACTION DURING CONSTRUCTION, AREAS FOR PROPOSED INFILTRATION STORMWATER MANAGEMENT PRACTICES MUST BE PHYSICALLY STAKED OUT BEFORE ANY SITE WORK BEGINS.
2. THE GENERAL CONTRACTOR SHALL FENCE OFF THE LOCATIONS OF ANY FUTURE INFILTRATION AREAS. THESE AREAS SHALL BE PROTECTED FROM COMPACTION AND HEAVY VEHICLE DISTURBANCE THROUGHOUT CONSTRUCTION.
3. ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES.
4. ALL REGULATORY AGENCIES INCLUDING KIDDER TOWNSHIP AND THE LOCAL CONSERVATION DISTRICT SHOULD BE NOTIFIED FOR INSPECTION AT LEAST THREE (3) DAYS IN ADVANCE OF THE CONSTRUCTION OF STORMWATER MANAGEMENT PRACTICES.
5. REMOVE TOPSOIL ONLY IN AREAS TO BE GRADED AND STOCKPILE IN AREA DELINEATED ON PLAN. INSTALL COMPOST SOCK AROUND STOCKPILE AS SHOWN. TOPSOIL IS TO REMAIN SEPARATE FROM SUBSOIL MATERIAL. TOPSOIL IS NOT TO LEAVE THE SITE WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.
6. EXCAVATION WILL BE REQUIRED TO REMOVE SURFACE HARDPAN AND ACHIEVE FINAL STONE BED BOTTOM GRADES. ONCE FINAL EXCAVATION IS COMPLETED, USE ORANGE PLASTIC CONSTRUCTION FENCE OR OTHER MEANS AS NECESSARY TO PROTECT THESE AREAS FROM COMPACTION OR SILTATION.
7. THE PERMITTEE SHALL PROVIDE ENGINEERING CONSTRUCTION OVERSIGHT FOR THE PROPOSED STORMWATER BMPS. ADDITIONAL SOIL TESTING MAY BE REQUIRED PRIOR TO THE INSTALLATION OF BMPS TO ENSURE PROPER LOCATION AND FUNCTION. A LICENSED PROFESSIONAL ENGINEER KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF STORMWATER BMPS, PREFERABLY THE DESIGN PROFESSIONAL, SHALL CONDUCT THE OVERSIGHT.
8. ALL CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN REQUIRE THE DESIGN PROFESSIONAL TO BE PRESENT ON SITE.

9. INSTALL THE RAIN GARDENS. **CRITICAL STAGE**
   9.1. ROUGH GRADE RAIN GARDENS. DO NOT COMPACT FOOTPRINT.
   9.2. PLACE NON-WOVEN GEOTEXTILE AND BACKFILL THE EXCAVATED AREA WITH CLEAN-WASHED STONE AS SOON AS POSSIBLE TO AVOID ACCUMULATION OF DEBRIS. PLACE CLEAN-WASHED STONE STORAGE. WRAP FULLY WITH GEOTEXTILE. PLACE RAIN GARDEN SOILS IN 12- TO 18-INCH LIFTS, AND TAMP LIGHTLY BY HAND OR COMPACT BY WATERING EACH LIFT. SLIGHT OVERFILLING MIGHT BE NECESSARY TO ACCOUNT FOR SETTLEMENT. PRESOAK THE SOIL AT LEAST ONE DAY PRIOR TO FINAL GRADING AND LANDSCAPING TO ALLOW FOR SETTLEMENT.
   9.3. AFTER ALLOWING FOR SETTLEMENT, COMPLETE FINAL GRADING WITHIN ABOUT TWO INCHES OF THE PROPOSED DESIGN ELEVATION, LEAVING SPACE FOR TOP DRESSING.
   9.4. INSTALL ANY REMAINING STORMWATER STRUCTURES. CONNECT OVERFLOW STRUCTURES PER PLAN. INSTALL INLET PROTECTION AND DO NOT ALLOW SEDIMENT INTO PIPES AND STRUCTURES.
   9.5. ANY STONE WITHIN THE INFILTRATION SMP MUST REMAIN FREE OF SEDIMENT AND MEET THE WASHED STONE SPECIFICATIONS. IF SEDIMENT ENTERS THE STONE, THE GENERAL CONTRACTOR MAY BE REQUIRED TO REMOVE THE SEDIMENT AND REPLACE WITH CLEAN WASHED STONE.

10. INSTALL REMAINING STORMWATER STRUCTURES AND PIPES AS INDICATED ON POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN.
11. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT APPROPRIATE REGULATORY AGENCIES FOR A FINAL INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
12. REMOVE TEMPORARY EROSION CONTROL MEASURES AS APPROPRIATE.
13. THE NPDES NOTICE OF TERMINATION (N.O.T.) MUST BE SUBMITTED TO PA DEP UPON COMPLETION OF CONSTRUCTION (WHEN APPLICABLE).

THE FOLLOWING ARE CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN FOR WHICH THE DESIGN PROFESSIONAL SHOULD BE PRESENT ON SITE:
1. INFILTRATION BED EXCAVATION
2. INFILTRATION BED INSTALLATION
3. RAIN GARDEN INSTALLATION
4. INFILTRATION BERM INSTALLATION
5. LEVEL SPREADER INSTALLATION
6. LANDSCAPE RESTORATION

			Small Commercial Buildings		Shallow Excavations		Unpaved Local Roads and Streets		
	Map unit symbol	Map unit name	Rating	Rating reasons (numeric values)	Rating	Rating reasons (numeric values)	Rating	Rating reasons (numeric values)	Resolutions
OGTC	SwB	Swartswood very stony loam, 0 to 8 percent slopes	Somewhat limited	Depth to saturated zone (0.05) Slope (0.00)	Very limited	Depth to saturated zone (1.00) Dusty (0.02) Unstable excavation walls (0.01)	Somewhat limited	Depth to saturated zone (0.02) Dusty (0.02) Frost action (0.50)	Future Building sites were evaluated for subsurface conditions and those conditions informed the design of foundations. All roadwork proposed is the restoration of existing unpaved access roads within the park therefore the subbase and general conditions below the unpaved road have previously been improved and addressed for frost action and saturation depth. Geotechnical investigations have also identified depth to saturated zones and this information has also informed design of stormwater features which account for most shallow excavations on site. Utility installations are at risk of conflict with rock, cemented pans, saturated zones, and also unstable excavation walls and notes have been included to notify Engineer should these undesireable conditions be discovered during construction. All access roads are unpaved but improved roads which will limit dusty conditions of the native soil.
	WuB2	Wurtsboro channery loam, 3 to 8 percent slopes, moderately eroded	Very limited	Depth to thick cemented pan (1.00) Depth to thin cemented pan (1.00) Slope (0.52) Depth to saturated zone (1.00)	Very limited	Unstable excavation walls (0.01) Dense layer (0.50) Dusty (0.03) Depth to saturated zone (1.00)	Very limited	Depth to thick cemented pan (1.00) Depth to thin cemented pan (1.00) Frost action (1.00) Depth to saturated zone (1.00) Dusty (0.03)	
	WvB	Wurtsboro very stony loam, 0 to 8 percent slopes	Somewhat limited	Depth to saturated zone (0.72) Slope (0.00)	Very limited	Depth to saturated zone (1.00) Dusty (0.44) Unstable excavation walls (0.01) Dense layer (0.50)	Somewhat limited	Frost action (0.50) Depth to saturated zone (0.39) Dusty (0.02)	

PCSM BMP MAINTENANCE SCHEDULE

BMP TYPE	INSPECTION SCHEDULE	MAINTENANCE DIRECTIONS	REPAIRS
RAIN GARDENS	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS AND IF SIGNS OF EROSION, CLOGGING, OR PLANT DAMAGE OCCUR	REMOVE DEBRIS FROM RAIN GARDENS REGULARLY. INSPECT FOR SIGNS OF EROSION (GULLIES). CLOGGING (PONDED WATER), AND DAMAGE TO VEGETATION.	REPAIR ERODED AREAS BY ADJUSTING GRADES PER DESIGN TO AVOID CONCENTRATED FLOWS BY USING EROSION CONTROL BLANKET OR BY ESTABLISHING VEGETATION. CLOGGING OF RAIN GARDEN SOILS MAY REQUIRE SOIL AMENDMENT, REPLACEMENT, OR A HYDRAULIC CONNECTION TO A PIPE OR SUBSURFACE STONE BED THAT IS NOT CLOGGED. DAMAGE TO VEGETATION SHOULD BE CONDUCTED PER THE ADVICE OF A QUALIFIED PROFESSIONAL.
INFILTRATION BERMS/LEVEL SPREADERS	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS AND IF SIGNS OF EROSION OR VEGETATION DAMAGE OCCUR	REMOVE DEBRIS FROM BMPS REGULARLY. INSPECT FOR SIGNS OF EROSION (GULLIES) AND DAMAGE TO VEGETATION.	REPAIR ERODED AREAS BY ADJUSTING GRADES PER DESIGN TO AVOID CONCENTRATED FLOWS BY USING EROSION CONTROL BLANKET OR BY ESTABLISHING VEGETATION. DAMAGE TO VEGETATION SHOULD BE CONDUCTED PER THE ADVICE OF A QUALIFIED PROFESSIONAL.
STORMWATER STRUCTURES AND PIPES	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS	REMOVE DEBRIS FROM STRUCTURES REGULARLY AND FROM PIPES WHEN	REPAIR DAMAGED PIPES AND STRUCTURES AS NEEDED.
SUBSURFACE STORAGE BEDS	DURING INSTALLATION AND IF SIGNS OF CLOGGING OCCUR	ENSURE PIPES AND STRUCTURES CONVEYING WATER TO BEDS ARE CLEAR TO PREVENT CLOGGING.	CLOGGED SUBSURFACE STORAGE BEDS MAY NEED TO BE REPLACED OR EQUIPPED WITH AN UNDERDRAIN IN THE CASE OF FAILURE.

NOTE: UNDER NO CIRCUMSTANCES SHALL SEDIMENT OR WASTE REMOVED FROM THE SYSTEMS BE DISPOSED OF ONSITE. ALL SEDIMENT AND/OR WASTE SHALL BE REMOVED OFF-SITE AND IN A LEGAL MANNER.

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420

SIGNATURE DATE 06/15/22

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PHILADELPHIA, PENNSYLVANIA

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HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SEQUENCE OF CONSTRUCTION – OGTC

VERIFY SCALE
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IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

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DRAWN BY L GILL | DATE 06/17/2022 | DRAWING No. C-10
CHECKED BY M HENDERSON | SCALE AS NOTED

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL NOTES.dwg LAYOUT TAB: SEQUENCE OF CONSTRUCTION - OGTC
LAST SAVED: 2022.06.15 03:58 PM PLOTTED: 2022.06.15 04:19 PM PLOTTED BY: Laura L Gill

LEGEND

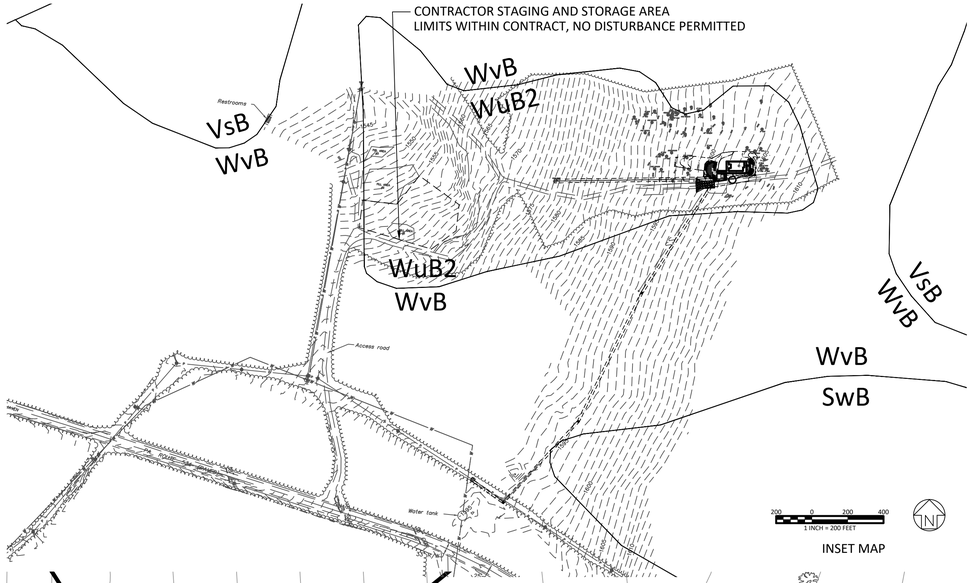
- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- TREE PROTECTION
- COMPOST SOCK
- CONSTRUCTION FENCE
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- SEDIMENT TRAP
- INFILTRATION STAKE OUT FENCE
- NEW BUILDING

25 0 25 50
1 INCH = 25 FEET

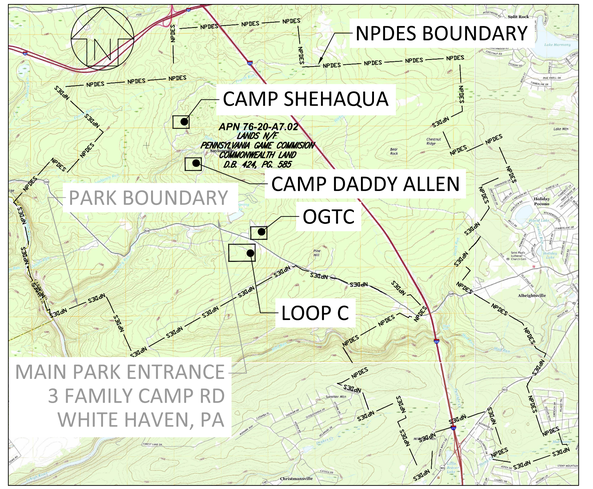
NOTES:

- NO EARTHMOVING ACTIVITIES OR CONSTRUCTION TRAFFIC SHALL OCCUR OVER PROPOSED INFILTRATION AREAS.
- TYPE 2.D DOUBLE NET EROSION CONTROL BLANKET - PROCESSED DEGRADABLE NATURAL FIBERS MECHANICALLY BOUND TOGETHER BETWEEN TWO RAPIDLY DEGRADING, NATURAL FIBER NETS. NO SYNTHETIC FIBERS PERMITTED.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY DCNR FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

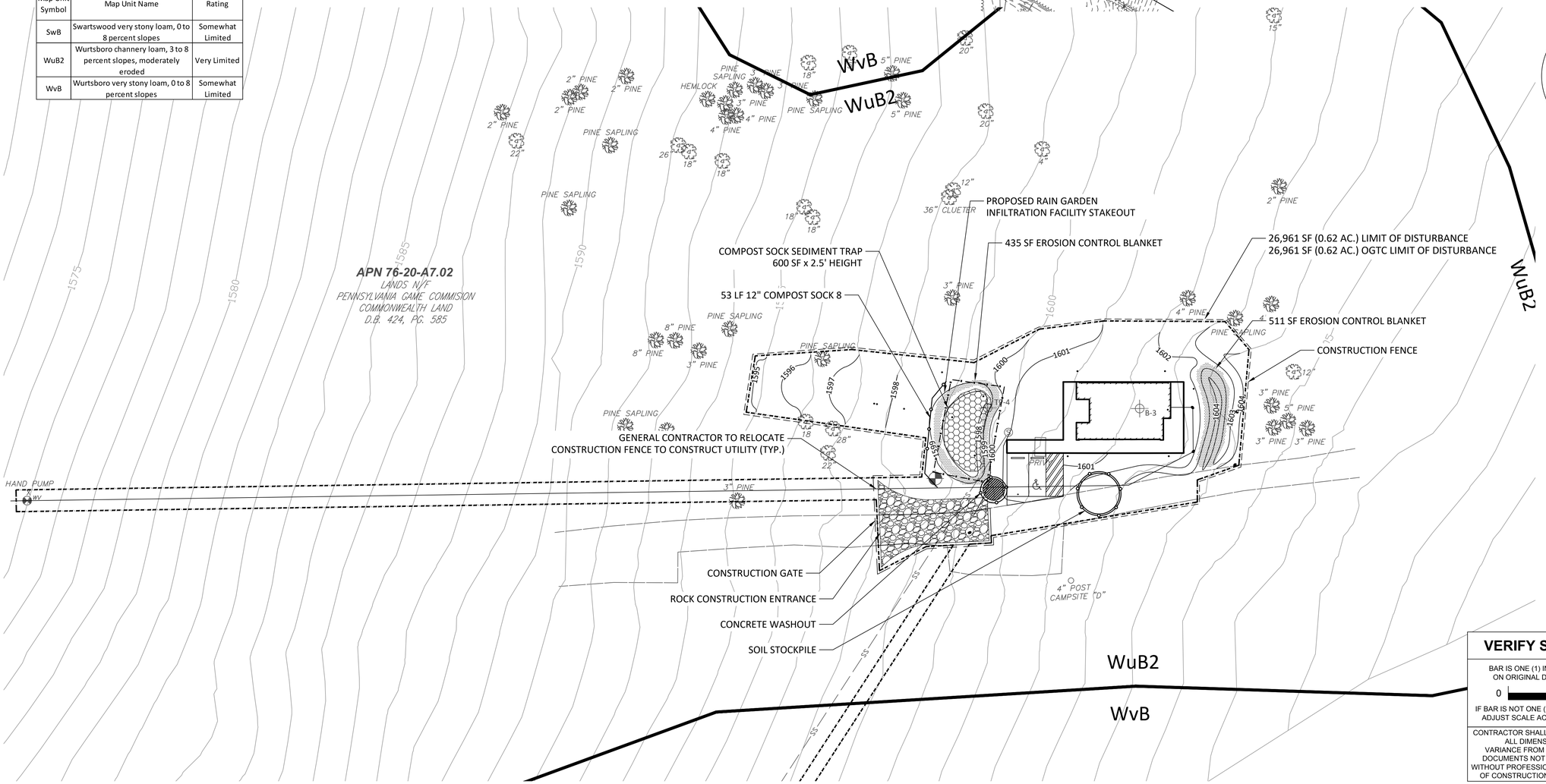
Map Unit Symbol	Map Unit Name	Rating
SwB	Swartswood very stony loam, 0 to 8 percent slopes	Somewhat Limited
WuB2	Wurtsboro channery loam, 3 to 8 percent slopes, moderately eroded	Very Limited
WvB	Wurtsboro very stony loam, 0 to 8 percent slopes	Somewhat Limited



SITE LOCATION



SCALE: 1" = 5000'



PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

CONSTRUCTION DOCUMENTS

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123
melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080420

SIGNATURE 06/15/22 DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EROSION AND SEDIMENT CONTROL PLAN – OGTC

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-11
CHECKED BY: M HENDERSON	SCALE: AS NOTED	

24 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL PLAN.dwg
LAST SAVED: 2022.06.22 09:05 AM PLOTTED: 2022.06.22 09:06 AM PLOTTED BY: Laura L. Gill
LAYOUT TAB: EROSION AND SEDIMENT CONTROL PLAN – OGTC

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- TREE TO BE REMOVED
- TREE TO BE PROTECTED
- TREE TO BE IMPACTED
- UTILITY STRUCTURE REMOVAL
- UTILITY LINE REMOVAL
- BUILDING DEMOLITION
- CONCRETE DEMOLITION

25 0 25 50

1 INCH = 25 FEET

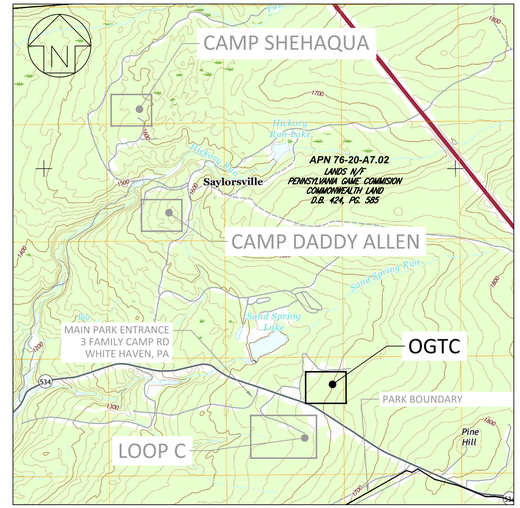
NOTES:
1. TREE STUMPS TO BE LEFT SHALL BE CUT LESS THAN 5 INCHES HIGH.

200 0 200 400

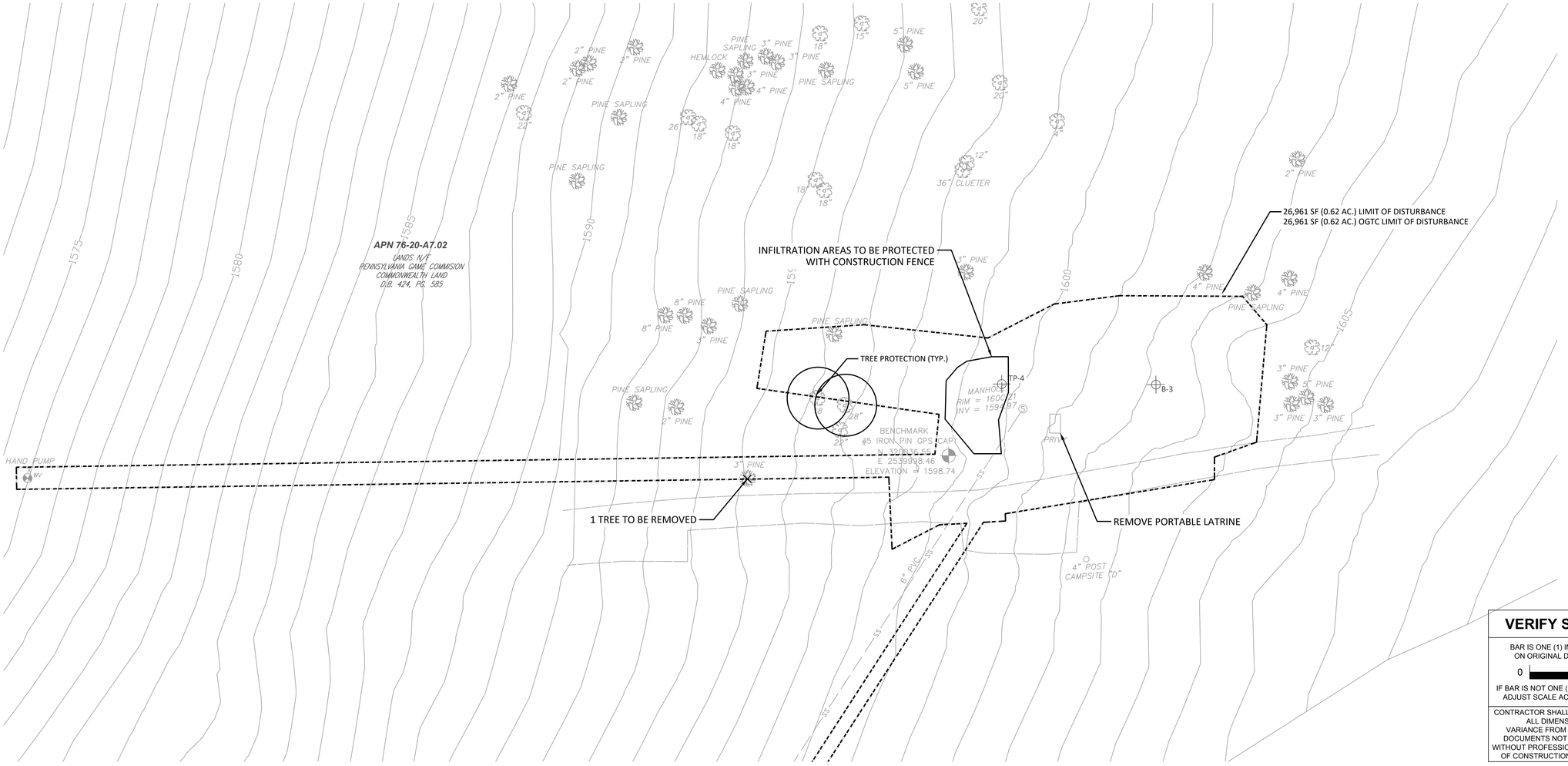
1 INCH = 200 FEET

INSET MAP

SITE LOCATION



SCALE: 1" = 2000'



CONSTRUCTION DOCUMENTS

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melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
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ENGINEER
No. 080420

06/15/22
SIGNATURE DATE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

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0 1
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

DEMOLITION PLAN – OGTC

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C–12
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

25 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - DEMOLITION PLAN.dwg
LAST SAVED: 2022.06.15 10:23 AM PLOTTED: 2022.06.15 04:24 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: DEMOLITION PLAN – OGTC

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- 1519 — CONTOUR
- ST — STORM PIPE
- INFILTRATION BED
- RAIN GARDEN
- TP/B-9 — SOIL TEST PIT (TP) OR BORING (B) LOCATION
- DOMED RISER

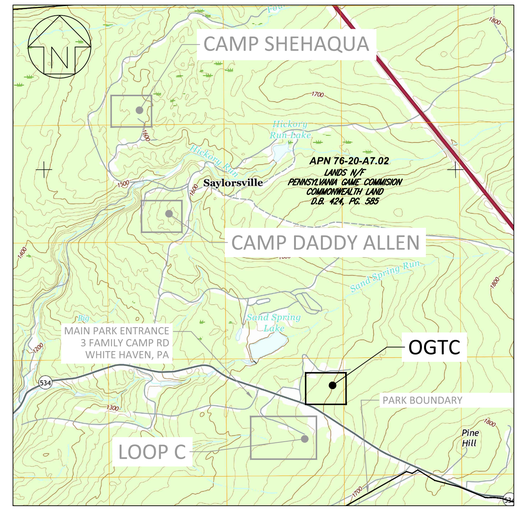
10 0 10 20
1 INCH = 10 FEET

NOTES:
1. PROPOSED SANITARY AND/OR ELECTRICAL UTILITY CLEARING TO BE REGRADED TO MATCH EXISTING GRADE AND REMAIN CLEARED AND OPEN FOR PEDESTRIAN ACCESS.
2. GENERAL CONTRACTOR RESPONSIBLE FOR CONNECTIONS FROM BUILDING DOWNSPOUTS TO STORMWATER SYSTEM. DOWNSPOUT CONNECTIONS VARY BY TYPE AND LOCATION. SEE PLANS FOR DOWNSPOUT CONNECTION DETAILS.

BORING ID	SURFACE ELEVATION	BORING DEPTH	OBSERVED WATER SURFACE DEPTH
B-3	1601.5' ±	25'	N/A

STORMWATER TEST PIT ID	SURFACE ELEVATION	PIT DEPTH	TEST DEPTH	AVERAGE FIELD INFIL. RATE (IN/HR)	FACTOR OF SAFETY	DESIGN INFIL. RATE (IN/HR)
TP-4	1598'	5'	7'	0.94	2	0.47

SITE LOCATION



SCALE: 1" = 2000'

PA ONE CALL SERIAL NUMBER - 20202343070

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SIGNATURE 06/15/22 DATE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

STORMWATER AND GRADING PLAN – OGTC

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C–13
CHECKED BY: M HENDERSON	SCALE: AS NOTED	26 OF 144

FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027 – STORMWATER AND GRADING PLAN.dwg LAYOUT TAB: STORMWATER AND GRADING PLAN – OGTC
LAST SAVED: 2022.06.13 10:43 AM PLOTTED: 2022.06.15 04:26 PM PLOTTED BY: Laura L Gill

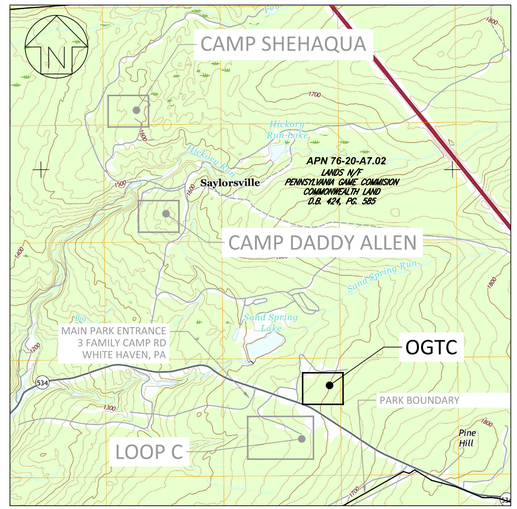
LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED CONCRETE
- PROPOSED DRIVING SURFACE AGGREGATE
- PROPOSED RAIN GARDEN SEED MIX
- PROPOSED LANDSCAPE RESTORATION

10 0 10 20

1 INCH = 10 FEET

SITE LOCATION



SCALE: 1" = 2000'

14,626 SF PENNDOT FORMULA B MIX

VEHICULAR SLAB
SEE STRUCTURAL PLANS FOR DETAILS

525 SF RAIN GARDEN SEED MIX

26,961 SF (0.62 AC.) LIMIT OF DISTURBANCE
26,961 SF (0.62 AC.) OGTC LIMIT OF DISTURBANCE

909 SF SIDEWALK DOWELED TO FOUNDATION
SEE STRUCTURAL PLANS FOR DETAILS

54 SF DRIVING SURFACE AGGREGATE (DSA)

753 SF DRIVING SURFACE AGGREGATE (DSA)

6369 SF ERNST PARTIAL SHADED ROADSIDE MIX

N: 320054.29
E: 2540103.39

TP-4

B-3

BENCHMARK
#5 IRON PIN GPS CAP
N. 320036.55
E. 2539388.46
ELEVATION = 1598.74

MANHOLE
RIM = 1600.4
INV = 1594.2

49'-4" 6' 26'-8" 32'-8" 26' 6' 55'-4" 20'

3" PINE 4" PINE 4" PINE PINE SAPLING PINE SAPLING 18" 28" 22" 12" 3" PINE 5" PINE 3" PINE 3" PINE 4" POST

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420

06/15/22
SIGNATURE DATE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SITE PLAN – OGTC

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1

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DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-14
CHECKED BY: M HENDERSON	SCALE: AS NOTED	27 OF 144

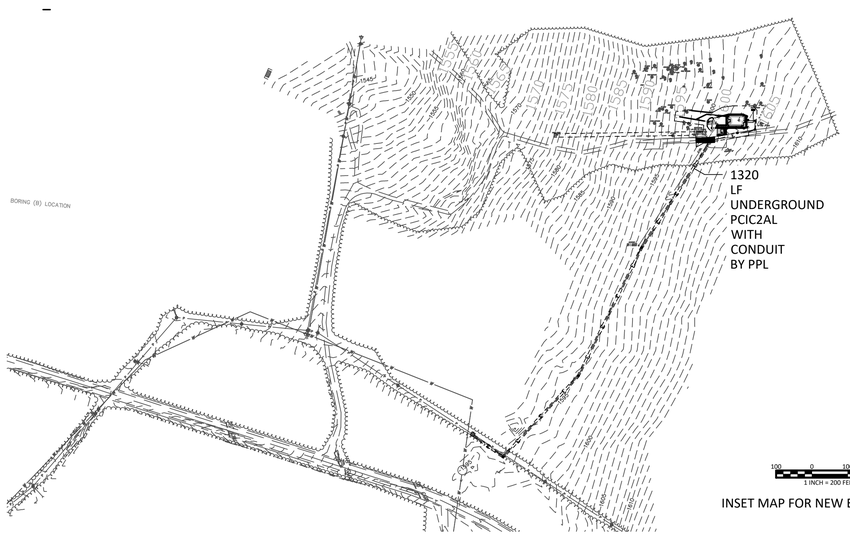
FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 – LANDSCAPING PLAN.dwg
LAST SAVED: 2022.05.05 11:02 AM PLOTTED: 2022.06.15 04:28 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: SITE PLAN – OGTC

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED CONCRETE
- PROPOSED DRIVING SURFACE AGGREGATE
- SEWER MANHOLE
- SEWER CLEANOUT
- WATER VALVE
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED ELECTRIC LINE
- STORM PIPE

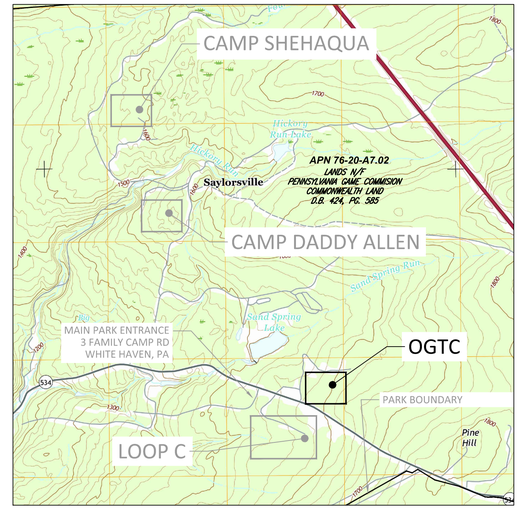
Notes

1. ALL NEW WATER SERVICE TO HAVE 54" MIN. COVER.
2. ELECTRICAL CONTRACTOR TO PROVIDE TRENCHING, BEDDING, AND BACKFILL PER PPL SPECIFICATIONS AND UTILITY DETAILS FOR ALL ELECTRICAL SERVICES NOTED ON PLANS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE FULLY WITH PPL DURING CONSTRUCTION FOR THE INSTALLATION OF THE ELECTRICAL SERVICE AT EACH SITE. SEE NOTES FOR EXTRA CLARIFICATION OF SCOPE ON A SITE BY SITE BASIS.
3. PLUMBING CONTRACTOR TO PROVIDE TRENCHING, BEDDING, AND BACKFILL PER UTILITY DETAILS FOR ALL WATER AND GAS SERVICES NOTED ON PLANS.
4. PLUMBING CONTRACTOR TO PROVIDE INSTALLATION OF PROPANE TANK AND SUPPLY LINE TO CONNECT GAS SERVICE. GENERAL CONTRACTOR TO PROVIDE DEVELOPED SITE AND ENCLOSURE PER PLANS FOR TANK INSTALLATION.
5. PLUMBING CONTRACTOR TO PROVIDE WATER SERVICE TO WATER FOUNTAINS AND DRAIN PITS FOR WATER SERVICE. SEE PLUMBING DRAWINGS FOR DETAILS.
6. ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE GENERAL CONTRACTOR EXCEPT WORK NOTED TO BE BY THE PLUMBING CONTRACTOR OR ELECTRICAL CONTRACTOR.

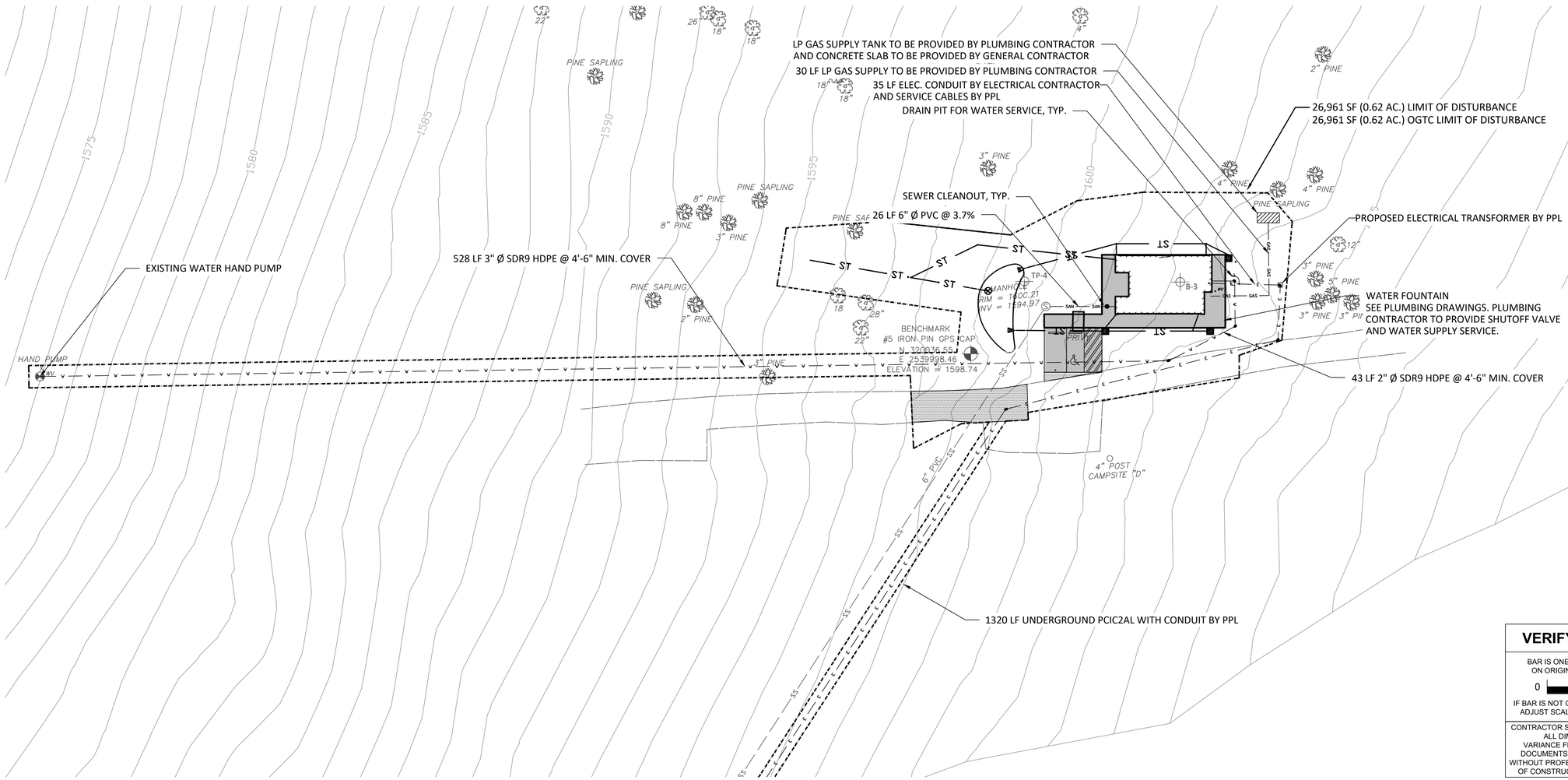


INSET MAP FOR NEW ELECTRICAL SERVICE

SITE LOCATION



SCALE: 1" = 2000'



CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
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ENGINEER
No. 080420

06/15/22
SIGNATURE DATE

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY PLAN – OGTC

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
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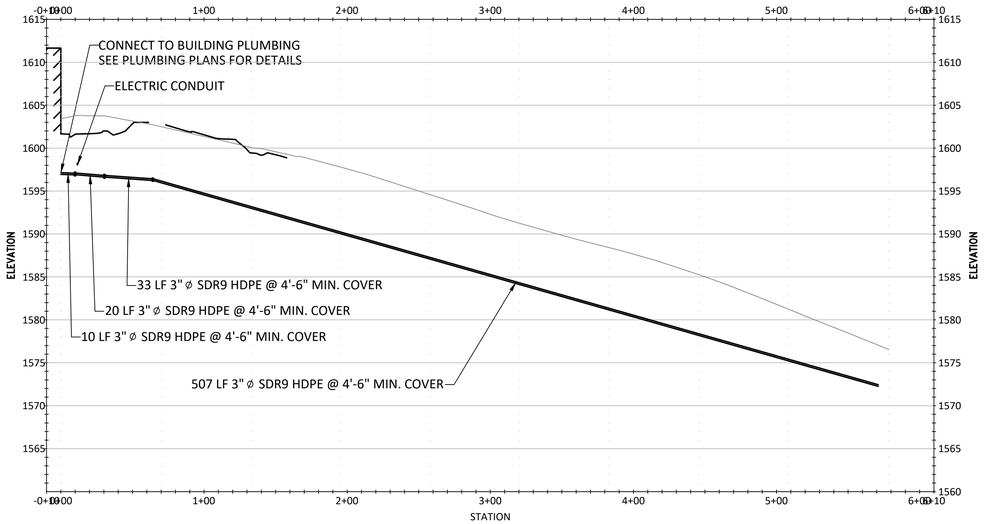
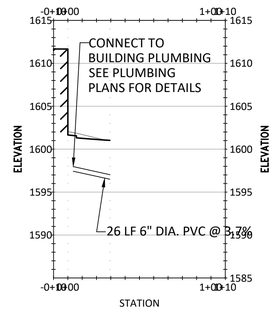
L GILL	06/17/2022	CPE-15
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

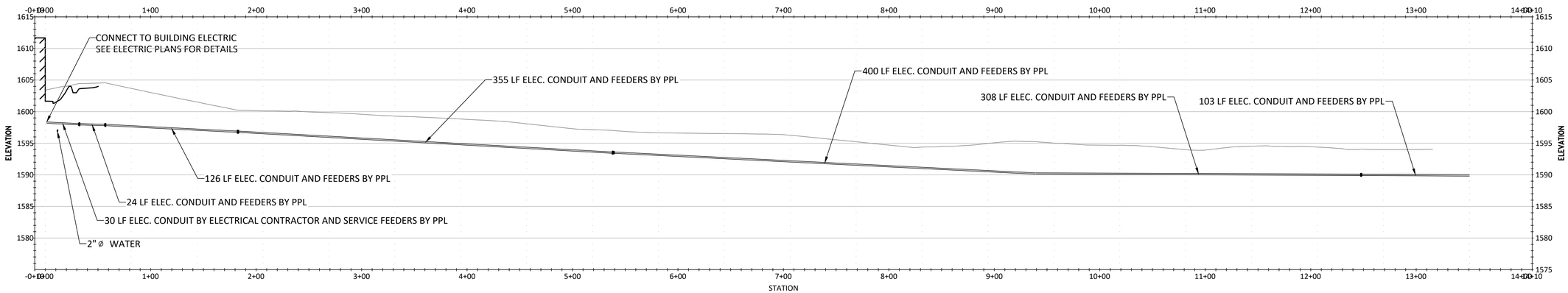
FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - UTILITY PLAN_.dwg
LAST SAVED: 2022.06.17 02:24 PM PLOTTED: 2022.06.17 02:32 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: UTILITY PLAN – OGTC



1 CPE-16 **PROFILE VIEW**
OGTC - WATER LINE 1"=50' H, 1"=10' V



2 CPE-16 **PROFILE VIEW**
OGTC - SANITARY SEWER 1"=50' H, 1"=10' V



3 CPE-16 **PROFILE VIEW**
OGTC - ELECTRIC LINE 1"=50' H, 1"=10' V

NOTES:

1. WATER AND SEWER LINES TO BE INSTALLED BELOW FROST DEPTH.
2. ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE GENERAL CONTRACTOR EXCEPT WORK NOTED TO BE BY THE PLUMBING CONTRACTOR OR ELECTRICAL CONTRACTOR.

CONSTRUCTION DOCUMENTS

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MARC B. HENDERSON — ENGINEER — No. 080420

06/15/22
SIGNATURE DATE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY PROFILES – CAMP OGTC

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	CPE–16
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

29 OF 144

FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027-UTILITY PROFILES.dwg
LAST SAVED: 2022.06.17 02:52 PM PLOTTED: 2022.06.17 04:08 PM BY: Laura L. Gill
LAYOUT TAB: UTILITY PROFILES – CAMP OGTC

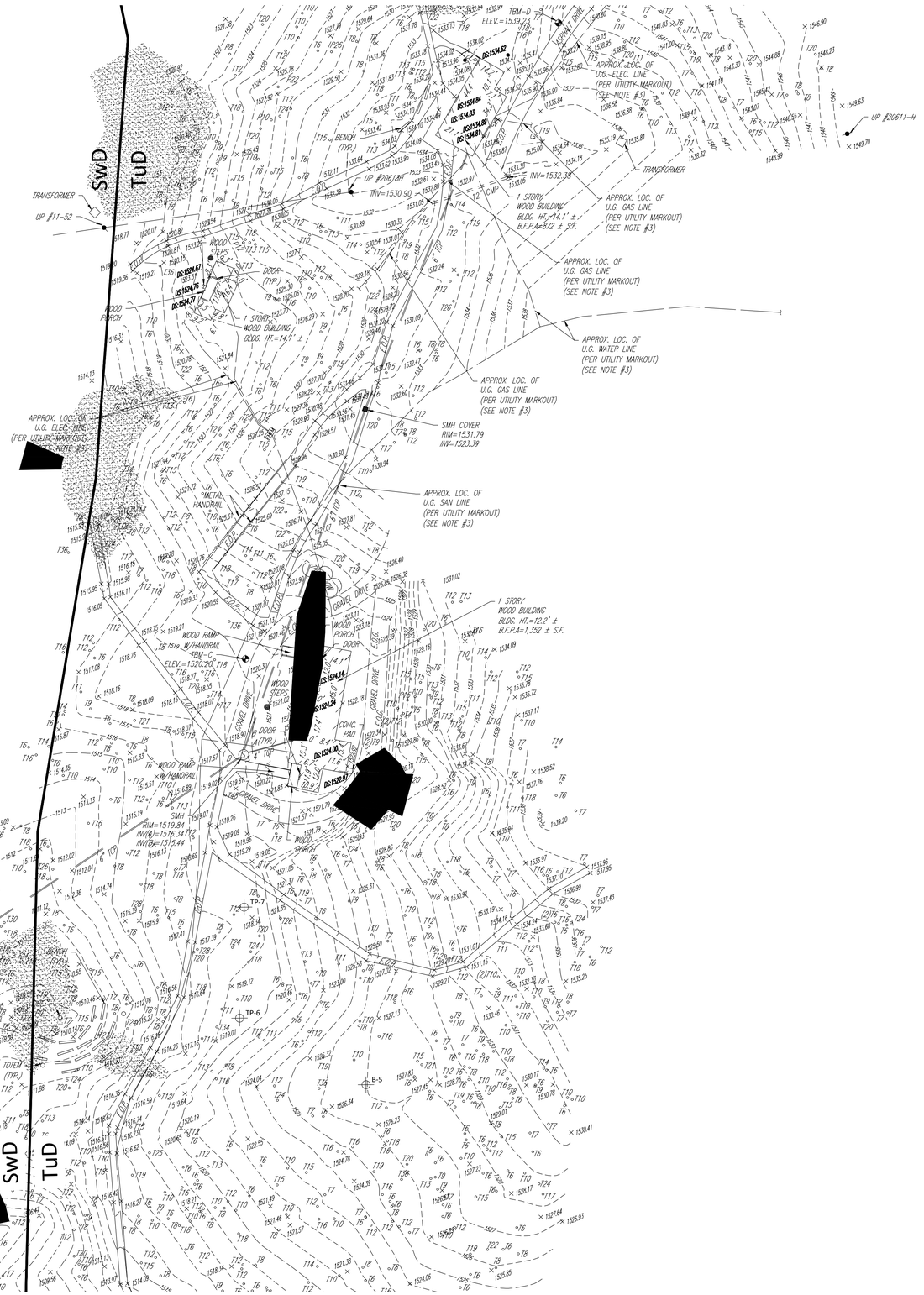
LEGEND

- S — EXISTING 6" PVC GRAVITY SEWER
- W — EXISTING WATER MAIN
- EXISTING UTILITY POLE
- P — EXISTING POWER LINE
- EXISTING TREE
- EXISTING CONTOUR
- LEGAL RIGHT-OF-WAY LINE
- EXISTING EDGE OF PAVEMENT
- Abcde — TEXT FOR EXISTING ITEMS
- ABCDE — TEXT FOR EXISTING ITEMS
- WOODS LINE
- EXISTING STORM SEWER
- (S) EXISTING SANITARY MANHOLE
- TP/B-9 — SOIL TEST PIT (TP) OR BORING (B) LOCATION
- SLOPES 15%-25%
- SLOPES >25%

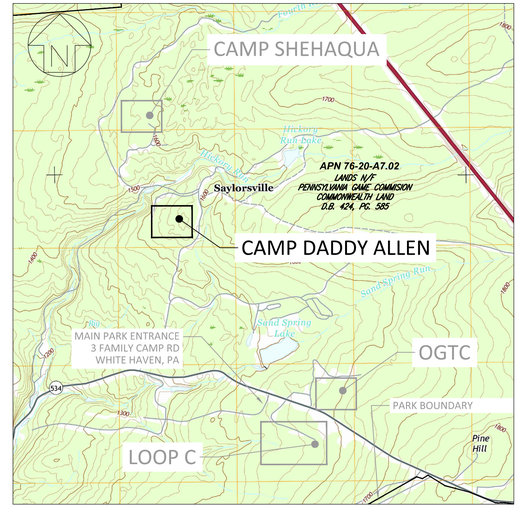
N

20 0 20 40

1 INCH = 20 FEET



SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

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REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080420

SIGNATURE — DATE 06/15/22

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HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

HICKORY RUN STATE PARK LATRINE IMPROVEMENTS

DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EXISTING CONDITIONS PLAN – CAMP DADDY ALLEN

DRAWN BY	DATE	DRAWING No.
	06/17/2022	C-17
CHECKED BY	SCALE	
	AS NOTED	

30 OF 144

BASE BID #3 – CAMP DADDY ALLEN

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EXISTING CONDITIONS PLAN (DGS).dwg LAYOUT TAB: EXISTING CONDITIONS PLAN – CAMP DADDY ALLEN
LAST SAVED: 2022.06.15 04:53 PM PLOTTED: 2022.06.17 04:35 PM PLOTTED BY: Laura L. Gill

CONSTRUCTION SEQUENCE

THE CONSTRUCTION PLANS HAVE BEEN DEVELOPED BASED ON AVAILABLE INFORMATION PROVIDED BY DCNR (INCLUDING A COMPREHENSIVE SITE SURVEY). THE PROJECT AREA INCLUDES EXISTING UTILITIES OF UNKNOWN LOCATION AND DEPTH. ACTUAL CONDITIONS MAY DIFFER FROM THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONDITIONS PRIOR TO INITIATING WORK, AND FOR NOTIFYING THE DEPARTMENT IMMEDIATELY UPON BECOMING AWARE OF POTENTIAL CONFLICTS OR VARIATIONS IN CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UTILITY AND STRUCTURE LOCATIONS AND ELEVATIONS AS REQUIRED FOR CONSTRUCTION. THE SITE WORK INCLUDES THE CONSTRUCTION OF MULTIPLE COMPONENTS INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF:

- EROSION AND SEDIMENTATION CONTROL MEASURES
- DEMOLITION OF ASSOCIATED SITE FEATURES AND REMOVAL OF PAVEMENT
- INSTALL NEW UTILITIES (STORMWATER, WATER, SANITARY SERVICE)
- STORMWATER PIPES AND STRUCTURES THAT CONVEY RUNOFF
- SITE IMPROVEMENT FEATURES
- PAVING AND STRIPING PARKING AREAS
- INSTALLATION OF LANDSCAPE COMPONENTS

DOCUMENTATION FOR THESE SITE COMPONENTS IS PROVIDED ON MULTIPLE PLAN SHEETS AND SPECIFICATIONS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF ALL SITE IMPROVEMENTS IN A MANNER TO AVOID CONFLICTS AND DAMAGE TO EXISTING SYSTEMS OR SITE COMPONENTS AS PART OF THIS PROJECT. UPON COMPLETION OR TEMPORARY CESSATION OF EARTH DISTURBANCE ACTIVITIES OR ANY STAGE THEREOF, THE PROJECT SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

1. STATE LAW REQUIRES A MINIMUM THREE DAY BUSINESS DAY NOTICE, BUT NOT MORE THAN TEN BUSINESS DAYS, PRIOR TO EARTH DISTURBANCE. ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES. CONFIRM LOCATIONS AND INVERTS.

2. THE GENERAL CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH DCNR PROJECT MANAGER AND DESIGN PROFESSIONAL OF RECORD. THE PROJECT DISTURBANCE AREA SHALL BE REVIEWED AT THIS MEETING. AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED TO OCCUR NO LESS THAN 7- DAYS PRIOR TO ANY EARTH DISTURBANCE UNLESS NOTIFIED OTHERWISE BY NERO DEP OR THE CARBON COUNTY CONSERVATION DISTRICT. PERMITTEES, CO-PERMITTEES, OPERATORS, ALL APPROPRIATE MUNICIPAL OFFICIALS, REPRESENTATIVES FROM THE CARBON COUNTY CONSERVATION DISTRICT AND THE NERO DEP, AND LICENSED PROFESSIONALS OR DESIGNEES RESPONSIBLE FOR THE EARTH DISTURBANCE ACTIVITY, INCLUDING IMPLEMENTATION OF E&S AND PCSM PLANS AND CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN, SHALL ATTEND A PRECONSTRUCTION MEETING. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES,

3. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY EXCEEDING 4 DAYS, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.

CAMP DADDY ALLEN

1. INSTALL CONSTRUCTION FENCING, ROCK CONSTRUCTION ENTRANCE, TREE PROTECTION, COMPOST SOCK AND SEDIMENT TRAP AS SHOWN ON THE PLAN. NO DISTURBANCE CAN TAKE PLACE OUTSIDE OF THE LIMIT OF DISTURBANCE.

2. REMOVE TOPSOIL ONLY IN AREAS TO BE GRADED AND STOCKPILE IN AREA DELINEATED ON PLAN. INSTALL COMPOST SOCK AROUND STOCKPILE AS SHOWN. TOPSOIL IS TO REMAIN SEPARATE FROM SUBSOIL MATERIAL. TOPSOIL IS NOT TO LEAVE THE SITE WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.

3. PERFORM SITE DEMOLITION OF EXISTING BUILDING AND STRUCTURES AS INDICATED ON PLAN. ONLY DEMOLISH EXISTING STORMWATER PIPES AND INLETS AS THEY ARE REPLACED OR AFTER NEW CONVEYANCE IS PROVIDED. EXISTING BUILDINGS TO BE DEMOLISHED AFTER NEW BUILDINGS ARE COMPLETE.

4. INSTALL RAIN GARDEN. (CRITICAL STAGE)

5. INSTALL STRUCTURES AND STORMWATER PIPES AS INDICATED ON POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN.

6. THE FOLLOWING ITEMS ARE TO BE INSTALLED AS APPROPRIATE TO LOCATION AND ELEVATIONS ON THE PLAN:
   b. PERFORM MAJOR EXCAVATIONS AND ROUGH GRADE FOR CURB INSTALLATION AS INDICATED ON GRADING PLAN, REMOVING ANY DELETERIOUS MATERIAL 2-INCHES OR LARGER. REMOVE EXCESS CUT FROM SITE AND DISPOSE OF IN A LEGAL MANNER IN ACCORDANCE WITH THE SOLID WASTE MANAGEMENT REGULATIONS.
   c. INSTALL BUILDING COMPONENTS AS REQUIRED.
7. INSTALL WATER AND SANITARY UTILITIES AS APPROPRIATE TO LOCATION AND ELEVATIONS ON PLAN. LIMIT THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME TO THAT WHICH CAN BE EXCAVATED AND BACK-FILLED IN ONE WORKING DAY. NO MORE THAN 50 LINEAR FEET OF OPEN TRENCH SHOULD EXIST WHEN UTILITY LINE INSTALLATION CEASES AT THE END OF ANY WORK DAY. IMMEDIATELY STABILIZE DISTURBED AREAS.

8. GRADE AS SHOWN ON PLANS AND DETAILS. INSTALL EROSION CONTROL BLANKET IN AREAS SHOWN FOLLOWING ESTABLISHMENT OF FINAL GRADE. COORDINATE INSTALLATION WITH RIPARIAN BUFFER INSTALLATION AND LANDSCAPE RESTORATION.

9. INSTALL PAVEMENT AS SHOWN ON PLANS AND DETAILS. FINAL WEARING COURSE FOR ALL ASPHALT TO BE INSTALLED FOLLOWING COMPLETION OF ALL 4 PHASES OF CONSTRUCTION.

10. STRIPE PARKING AREAS AND INSTALL ANY MISCELLANEOUS SITE FEATURES AS APPROPRIATE SUCH AS SIGNS, WHEEL STOPS, ETC. FOLLOWING WEARING COURSE INSTALLATION.

11. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED (VEGETATED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED), REMOVE TEMPORARY EROSION AND SEDIMENTATION INLET PROTECTION CONTROLS ONLY. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST ALSO BE STABILIZED IMMEDIATELY.

PCSM BMP INSTALLATION

1. TO AVOID SOIL DISTURBANCE AND COMPACTION DURING CONSTRUCTION, AREAS FOR PROPOSED INFILTRATION STORMWATER MANAGEMENT PRACTICES MUST BE PHYSICALLY STAKED OUT BEFORE ANY SITE WORK BEGINS.
2. THE GENERAL CONTRACTOR SHALL FENCE OFF THE LOCATIONS OF ANY FUTURE INFILTRATION AREAS. THESE AREAS SHALL BE PROTECTED FROM COMPACTION AND HEAVY VEHICLE DISTURBANCE THROUGHOUT CONSTRUCTION.
3. ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES.
4. ALL REGULATORY AGENCIES INCLUDING KIDDER TOWNSHIP AND THE LOCAL CONSERVATION DISTRICT SHOULD BE NOTIFIED FOR INSPECTION AT LEAST THREE (3) DAYS IN ADVANCE OF THE CONSTRUCTION OF STORMWATER MANAGEMENT PRACTICES.
5. REMOVE TOPSOIL ONLY IN AREAS TO BE GRADED AND STOCKPILE IN AREA DELINEATED ON PLAN. INSTALL COMPOST SOCK AROUND STOCKPILE AS SHOWN. TOPSOIL IS TO REMAIN SEPARATE FROM SUBSOIL MATERIAL. TOPSOIL IS NOT TO LEAVE THE SITE WITHOUT WRITTEN PERMISSION OF OWNER.
6. EXCAVATION WILL BE REQUIRED TO REMOVE SURFACE HARDPAN AND ACHIEVE FINAL STONE BED BOTTOM GRADES. ONCE FINAL EXCAVATION IS COMPLETED, USE ORANGE PLASTIC CONSTRUCTION FENCE OR OTHER MEANS AS NECESSARY TO PROTECT THESE AREAS FROM COMPACTION OR SILTATION.
7. THE PERMITTEE SHALL PROVIDE ENGINEERING CONSTRUCTION OVERSIGHT FOR THE PROPOSED STORMWATER BMPS. ADDITIONAL SOIL TESTING MAY BE REQUIRED PRIOR TO THE INSTALLATION OF BMPS TO ENSURE PROPER LOCATION AND FUNCTION. A LICENSED PROFESSIONAL ENGINEER KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF STORMWATER BMPS, PREFERABLY THE DESIGN PROFESSIONAL, SHALL CONDUCT THE OVERSIGHT.
8. ALL CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN REQUIRE THE DESIGN PROFESSIONAL TO BE PRESENT ON SITE.

9. INSTALL THE RAIN GARDENS. **CRITICAL STAGE**
   9.1. ROUGH GRADE RAIN GARDENS. DO NOT COMPACT FOOTPRINT.
   9.2. PLACE NON-WOVEN GEOTEXTILE AND BACKFILL THE EXCAVATED AREA WITH CLEAN-WASHED STONE AS SOON AS POSSIBLE TO AVOID ACCUMULATION OF DEBRIS. PLACE CLEAN-WASHED STONE STORAGE. WRAP FULLY WITH GEOTEXTILE. PLACE RAIN GARDEN SOILS IN 12- TO 18-INCH LIFTS, AND TAMP LIGHTLY BY HAND OR COMPACT BY WATERING EACH LIFT. SLIGHT OVERFILLING MIGHT BE NECESSARY TO ACCOUNT FOR SETTLEMENT. PRESOAK THE SOIL AT LEAST ONE DAY PRIOR TO FINAL GRADING AND LANDSCAPING TO ALLOW FOR SETTLEMENT.
   9.3. AFTER ALLOWING FOR SETTLEMENT, COMPLETE FINAL GRADING WITHIN ABOUT TWO INCHES OF THE PROPOSED DESIGN ELEVATION, LEAVING SPACE FOR TOP DRESSING.
   9.4. INSTALL ANY REMAINING STORMWATER STRUCTURES. CONNECT OVERFLOW STRUCTURES PER PLAN. INSTALL INLET PROTECTION AND DO NOT ALLOW SEDIMENT INTO PIPES AND STRUCTURES.
   9.5. ANY STONE WITHIN THE INFILTRATION SMP MUST REMAIN FREE OF SEDIMENT AND MEET THE WASHED STONE SPECIFICATIONS. IF SEDIMENT ENTERS THE STONE, THE GENERAL CONTRACTOR MAY BE REQUIRED TO REMOVE THE SEDIMENT AND REPLACE WITH CLEAN WASHED STONE.

10. INSTALL REMAINING STORMWATER STRUCTURES AND PIPES AS INDICATED ON POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN.
11. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT APPROPRIATE REGULATORY AGENCIES FOR A FINAL INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
12. REMOVE TEMPORARY EROSION CONTROL MEASURES AS APPROPRIATE.
13. THE NPDES NOTICE OF TERMINATION (N.O.T.) MUST BE SUBMITTED TO PA DEP UPON COMPLETION OF CONSTRUCTION (WHEN APPLICABLE).

THE FOLLOWING ARE CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN FOR WHICH THE DESIGN PROFESSIONAL SHOULD BE PRESENT ON SITE:

1. INFILTRATION BED EXCAVATION
2. INFILTRATION BED INSTALLATION
3. RAIN GARDEN INSTALLATION
4. INFILTRATION BERM INSTALLATION
5. LEVEL SPREADER INSTALLATION
6. LANDSCAPE RESTORATION

			Small Commercial Buildings		Shallow Excavations		Unpaved Local Roads and Streets		
	Map unit symbol	Map unit name	Rating	Rating reasons (numeric values)	Rating	Rating reasons (numeric values)	Rating	Rating reasons (numeric values)	Resolutions
DADDY ALLEN	SwD	Swartswood very stony loam, 8 to 25 percent slopes	Very limited	Slope (1.00) Depth to saturated zone (0.05)	Very limited	Depth to saturated zone (1.00) Slope (1.00) Dusty (0.02) Unstable excavation walls (0.01)	Very limited	Slope (1.00) Frost action (0.50) Depth to saturated zone (0.02) Dusty (0.02)	Future Building sites were evaluated for subsurface conditions and those conditions informed the design of foundations. All roadwork proposed is the restoration of existing unpaved access roads within the park therefore the subbase and general conditions below the unpaved road have previously been improved and addressed for frost action and saturation depth. Geotechnical investigations have also identified depth to saturated zones and this information has also informed design of stormwater features which account for most shallow excavations on site. Utility installations are at risk of conflict with rock, cemented pans, saturated zones, and also unstable excavation walls and notes have been included to notify Engineer should these undesireable conditions be discovered during construction. Erosion control blanket is shown on slopes exceeding 3H:1V. All access roads are unpaved but improved roads which will limit dusty conditions of the native soil.
	TuD	Tunkhannock gravelly loam, 15 to 25 percent slopes	Very limited	Slope (1.00)	Very limited	Slope (1.00) Dusty (0.01) Unstable excavation walls (0.01)	Very limited	Slope (1.00) Dusty (0.01)	

PCSM BMP MAINTENANCE SCHEDULE

BMP TYPE	INSPECTION SCHEDULE	MAINTENANCE DIRECTIONS	REPAIRS
RAIN GARDENS	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS AND IF SIGNS OF EROSION, CLOGGING, OR PLANT DAMAGE OCCUR	REMOVE DEBRIS FROM RAIN GARDENS REGULARLY. INSPECT FOR SIGNS OF EROSION (GULLIES), CLOGGING (PONDED WATER), AND DAMAGE TO VEGETATION.	REPAIR ERODED AREAS BY ADJUSTING GRADES PER DESIGN TO AVOID CONCENTRATED FLOWS BY USING EROSION CONTROL BLANKET OR BY ESTABLISHING VEGETATION. CLOGGING OF RAIN GARDEN SOILS MAY REQUIRE SOIL AMENDMENT, REPLACEMENT, OR A HYDRAULIC CONNECTION TO A PIPE OR SUBSURFACE STONE BED THAT IS NOT CLOGGED. DAMAGE TO VEGETATION SHOULD BE CONDUCTED PER THE ADVICE OF A QUALIFIED PROFESSIONAL.
INFILTRATION BERMS/LEVEL SPREADERS	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS AND IF SIGNS OF EROSION OR VEGETATION DAMAGE OCCUR	REMOVE DEBRIS FROM BMPS REGULARLY. INSPECT FOR SIGNS OF EROSION (GULLIES) AND DAMAGE TO VEGETATION.	REPAIR ERODED AREAS BY ADJUSTING GRADES PER DESIGN TO AVOID CONCENTRATED FLOWS BY USING EROSION CONTROL BLANKET OR BY ESTABLISHING VEGETATION. DAMAGE TO VEGETATION SHOULD BE CONDUCTED PER THE ADVICE OF A QUALIFIED PROFESSIONAL.
STORMWATER STRUCTURES AND PIPES	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS	REMOVE DEBRIS FROM STRUCTURES REGULARLY AND FROM PIPES WHEN	REPAIR DAMAGED PIPES AND STRUCTURES AS NEEDED.
SUBSURFACE STORAGE BEDS	DURING INSTALLATION AND IF SIGNS OF CLOGGING OCCUR	ENSURE PIPES AND STRUCTURES CONVEYING WATER TO BEDS ARE CLEAR TO PREVENT CLOGGING.	CLOGGED SUBSURFACE STORAGE BEDS MAY NEED TO BE REPLACED OR EQUIPPED WITH AN UNDERDRAIN IN THE CASE OF FAILURE.

NOTE: UNDER NO CIRCUMSTANCES SHALL SEDIMENT OR WASTE REMOVED FROM THE SYSTEMS BE DISPOSED OF ONSITE. ALL SEDIMENT AND/OR WASTE SHALL BE REMOVED OFF-SITE AND IN A LEGAL MANNER.

PENNSYLVANIA ONE CALL SYSTEM, INC. — DIAL 811 — STOP - CALL BEFORE YOU DIG!

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123
melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MARC B. HENDERSON — ENGINEER — No. 080420

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SEQUENCE OF CONSTRUCTION - CAMP DADDY ALLEN

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-18
CHECKED BY	SCALE	
M. HENDERSON	AS NOTED	

31 OF 144

BASE BID #3 - CAMP DADDY ALLEN

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL NOTES.dwg
LAST SAVED: 2022.06.17 03:15 PM PLOTTED: 2022.06.17 04:21 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: SEQUENCE OF CONSTRUCTION - CAMP DADDY ALLEN

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- TREE PROTECTION
- COMPOST SOCK
- CONSTRUCTION FENCE
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- SEDIMENT TRAP
- INFILTRATION STAKE OUT FENCE

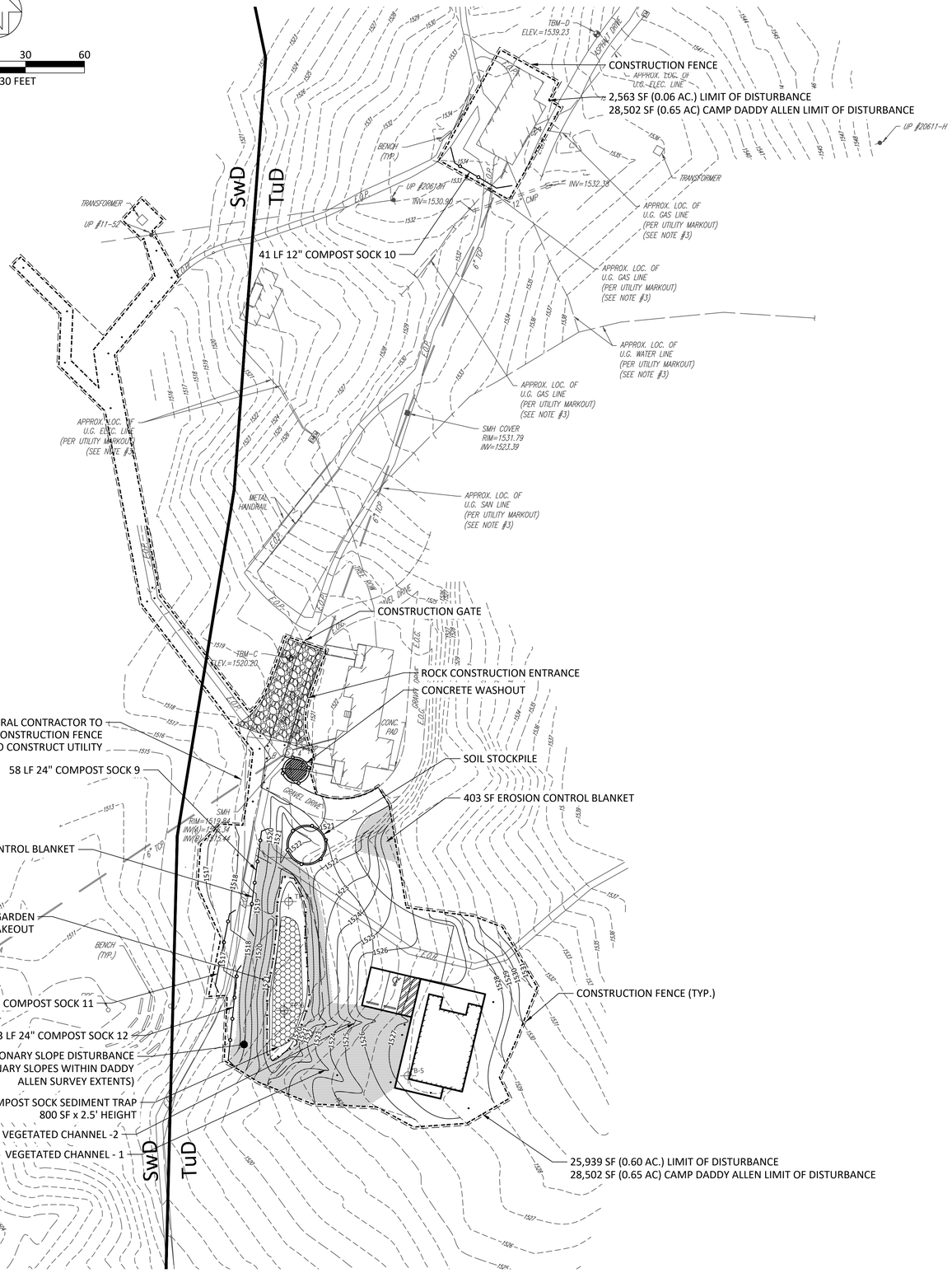
30 0 30 60

1 INCH = 30 FEET

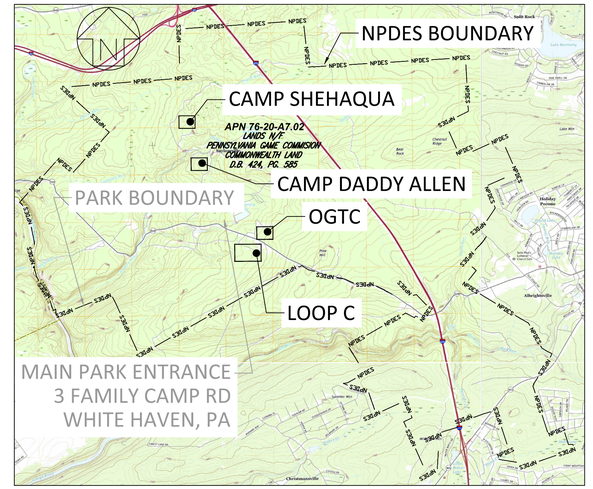
NOTES:

- NO EARTHMOVING ACTIVITIES OR CONSTRUCTION TRAFFIC SHALL OCCUR OVER PROPOSED INFILTRATION AREAS.
- TYPE 2.D DOUBLE NET EROSION CONTROL BLANKET - PROCESSED DEGRADABLE NATURAL FIBERS MECHANICALLY BOUND TOGETHER BETWEEN TWO RAPIDLY DEGRADING, NATURAL FIBER NETS. NO SYNTHETIC FIBERS PERMITTED.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY DCNR FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

Map Unit Symbol	Map Unit Name	Rating
SwD	Swartswood very stony loam, 8 to 25 percent slopes	Very Limited
TuD	Tunkhannock gravelly loam, 15 to 25 percent slopes	Very Limited



SITE LOCATION



SCALE: 1" = 5000'

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

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06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EROSION AND SEDIMENT CONTROL PLAN – CAMP DADDY ALLEN

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-19
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

32 OF 144

BASE BID #3 – CAMP DADDY ALLEN

FILE PATH: J:\2020\20027 - Hickory run state park\CAD\sheet files\20027 - EROSION AND SEDIMENT CONTROL PLAN-Dwg LAYOUT TAB: EROSION AND SEDIMENT CONTROL PLAN – CAMP DADDY ALLEN
LAST SAVED: 2022.06.12 10:20 PM PLOTTED: 2022.06.17 04:23 PM PLOTTED BY: Laura L. Gill

LEGEND

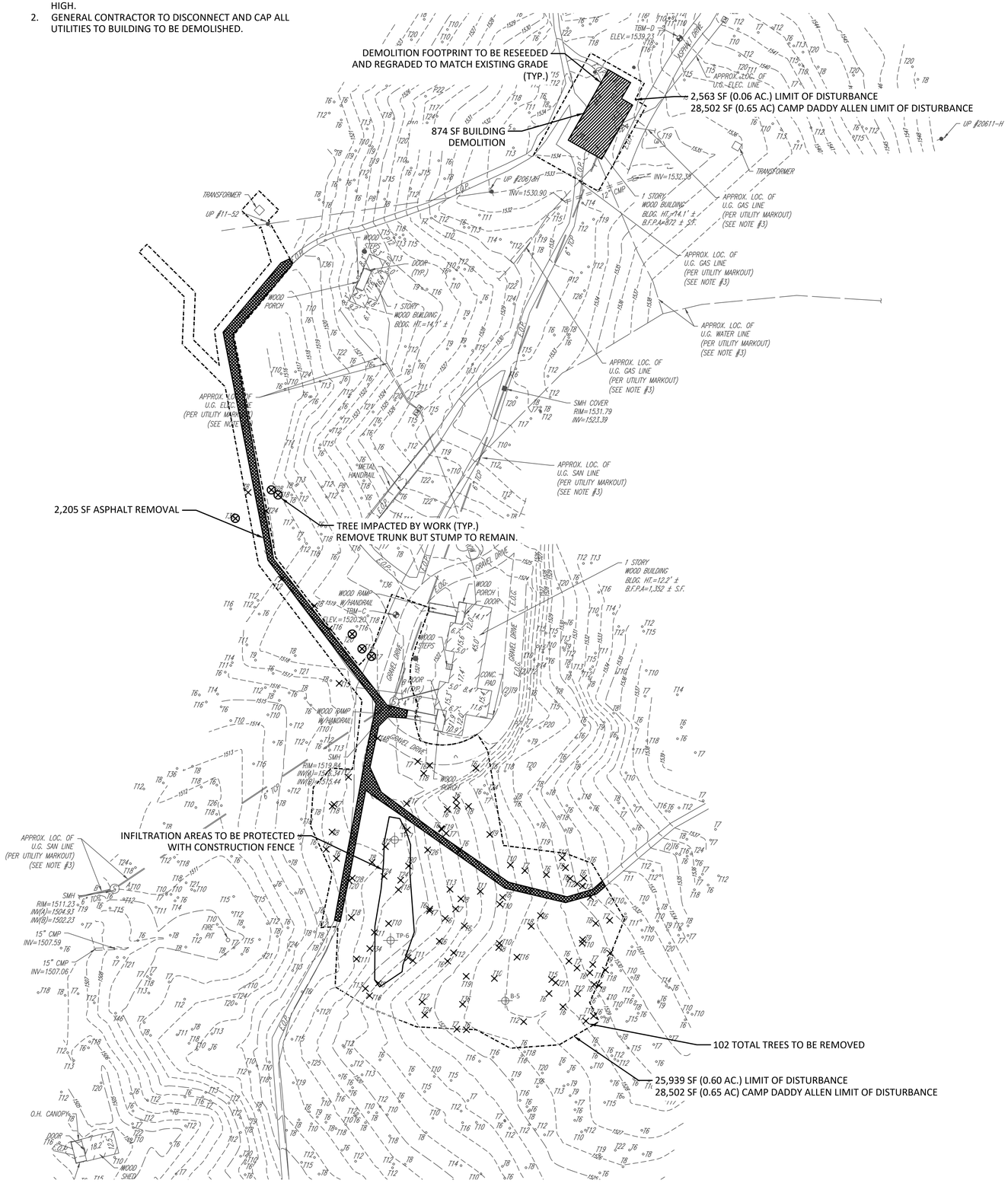
- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- TREE TO BE REMOVED
- TREE TO BE PROTECTED
- TREE TO BE IMPACTED
- UTILITY STRUCTURE REMOVAL
- UTILITY LINE REMOVAL
- BUILDING DEMOLITION
- CONCRETE DEMOLITION
- ASPHALT DEMOLITION

30 0 30 60

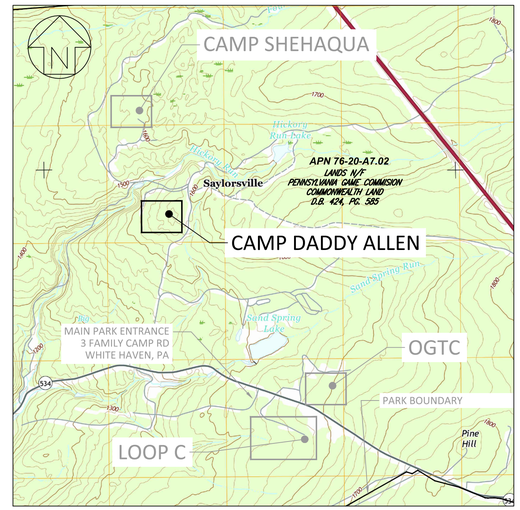
1 INCH = 30 FEET

NOTES:

1. TREE STUMPS TO BE LEFT SHALL BE CUT LESS THAN 5 INCHES HIGH.
2. GENERAL CONTRACTOR TO DISCONNECT AND CAP ALL UTILITIES TO BUILDING TO BE DEMOLISHED.



SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

DEMOLITION PLAN – CAMP DADDY ALLEN

VERIFY SCALE

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IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

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L GILL	06/17/2022	C-20
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

33 OF 144

BASE BID #3 – CAMP DADDY ALLEN

FILE PATH: J:\2020\20027 - Hickory run state park\CAD\sheet files\20027 – DEMOLITION PLAN.dwg
LAST SAVED: 2022.06.16 10:23 AM PLOTTED: 2022.06.17 04:25 PM BY: Laura L. Gill
LAYOUT TAB: DEMOLITION PLAN – CAMP DADDY ALLEN

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- 1519 CONTOUR
- ST STORM PIPE
- INFILTRATION BED
- RAIN GARDEN
- TP/B-9 SOIL TEST PIT (TP) OR BORING (B) LOCATION
- DOMED RISER
- FLARED END SECTION

10 0 10 20
1 INCH = 10 FEET

BORING ID	SURFACE ELEVATION	BORING DEPTH	OBSERVED WATER SURFACE DEPTH
B-5	1527.0' ±	25'	N/A

STORMWATER TEST PIT ID	SURFACE ELEVATION	PIT DEPTH	TEST DEPTH	AVERAGE FIELD INFIL. RATE (IN/HR)	FACTOR OF SAFETY	DESIGN INFIL. RATE (IN/HR)
TP-6	1521'	5'	7'	2.94	2	1.37
TP-7	1521'	5'	7'	2.55	2	1.37

NOTES:
1. PROPOSED SANITARY AND/OR ELECTRICAL UTILITY CLEARING TO BE REGRADED TO MATCH EXISTING GRADE AND REMAIN CLEARED AND OPEN FOR PEDESTRIAN ACCESS.
2. GENERAL CONTRACTOR RESPONSIBLE FOR CONNECTIONS FROM BUILDING DOWNSPOUTS TO STORMWATER SYSTEM. DOWNSPOUT CONNECTIONS VARY BY TYPE AND LOCATION. SEE PLANS FOR DOWNSPOUT CONNECTION DETAILS.

20 LF LEVEL SPREADER
INV. OUT = 1517.65

35 LF 12" DIA. HDPE @ 1.0%

12" DOMED RISER
GRATE ELEV. = 1520.50
INV. OUT = 1518.00

BENCH (TYP.)

205 LF INFILTRATION FACILITY PROTECTION - ORANGE CONSTRUCTION FENCE

RAIN GARDEN RG-2
1250 SF LEVEL BED BOTTOM

FIRE PIT

FLARED END
INV. OUT = 1521.00

23 LF 12" DIA. HDPE @ 1.0%

34 LF 4" FOUNDATION DRAIN PIPE

28 LF 12" DIA. HDPE @ 3.3%

4 LF 6" DIA. HDPE @ 3.3%
CONNECT AT 1525.140

19 LF 6" DIA. HDPE @ 1.1%
CONNECT AT 1525.000

9 LF 6" DIA. HDPE @ 1.9%
CONNECT AT 1524.800

4 LF 6" DIA. HDPE @ 12.4%
CONNECT AT 1525.140

26 LF 12" DIA. HDPE @ 1.3%

22 LF 12" DIA. HDPE @ 2.0%

3 LF 6" DIA. HDPE @ 48.0%
CONNECT AT 1525.140

8 LF 12" DIA. HDPE @ 2.0%

33 LF 12" DIA. HDPE @ 3.3%

TP-6 TP-7 B-5

WOOD RAMP W/HANDRAIL

GRAVEL DRIVE

WOOD PORCH

PAD

SMH RIM=1519.84 INV(A)=1516.34 INV(B)=1515.44

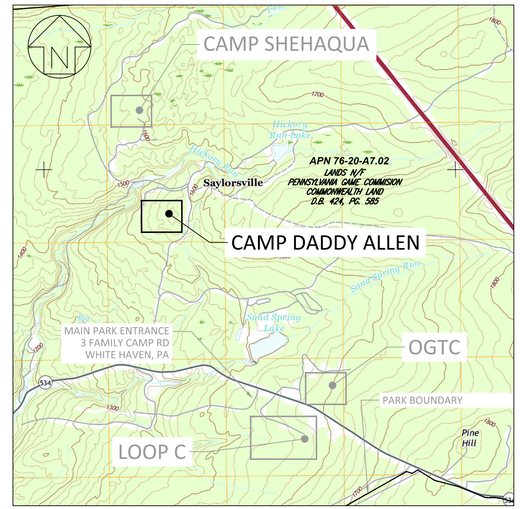
6" TCP

4" TCP

E.O.P.

FFE 1527.14

SITE LOCATION



SCALE: 1" = 2000'

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

STORMWATER AND GRADING PLAN – CAMP DADDY ALLEN

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-21
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

34 OF 144

BASE BID #3 – CAMP DADDY ALLEN

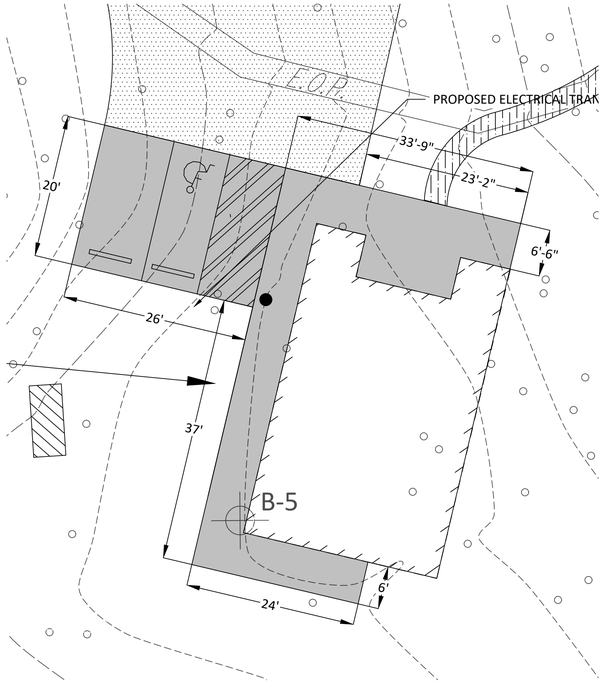
FILE PATH: J:\2020\20027 - hickory run state park\CAD\sheet files\20027 - STORMWATER AND GRADING PLAN - CAMP DADDY ALLEN LAST SAVED: 2022.06.13 10:43 AM PLOTTED: 2022.06.17 04:27 PM PLOTTED BY: Laura L. Gill

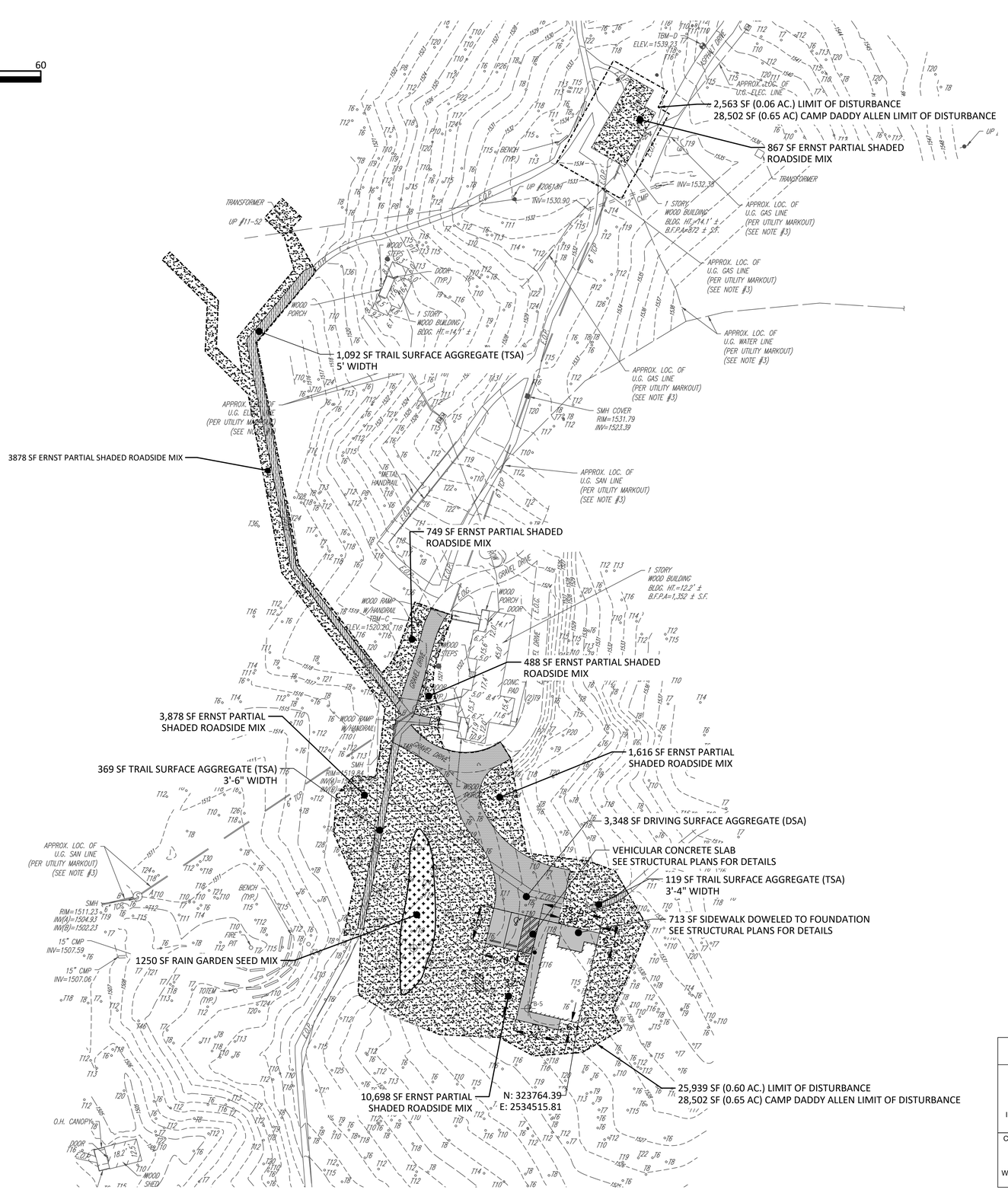
LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED CONCRETE
- PROPOSED DRIVING SURFACE AGGREGATE
- PROPOSED RAIN GARDEN SEED MIX
- PROPOSED LANDSCAPE RESTORATION
- PROPOSED TRAIL SURFACE AGGREGATE

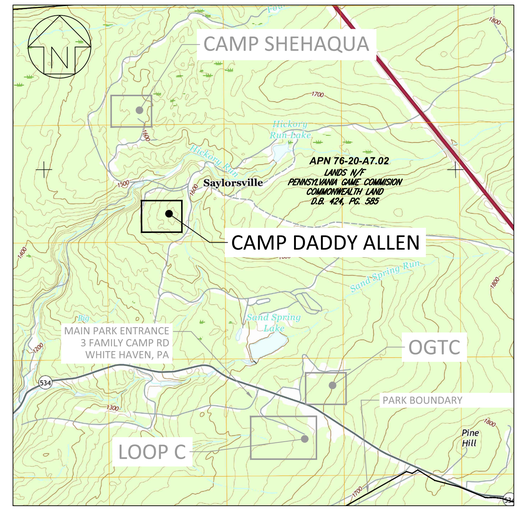
30 0 30 60

1 INCH = 30 FEET





SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420

06/15/22
SIGNATURE DATE

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SITE PLAN – CAMP DADDY ALLEN

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C–22
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

35 OF 144

BASE BID #3 – CAMP DADDY ALLEN

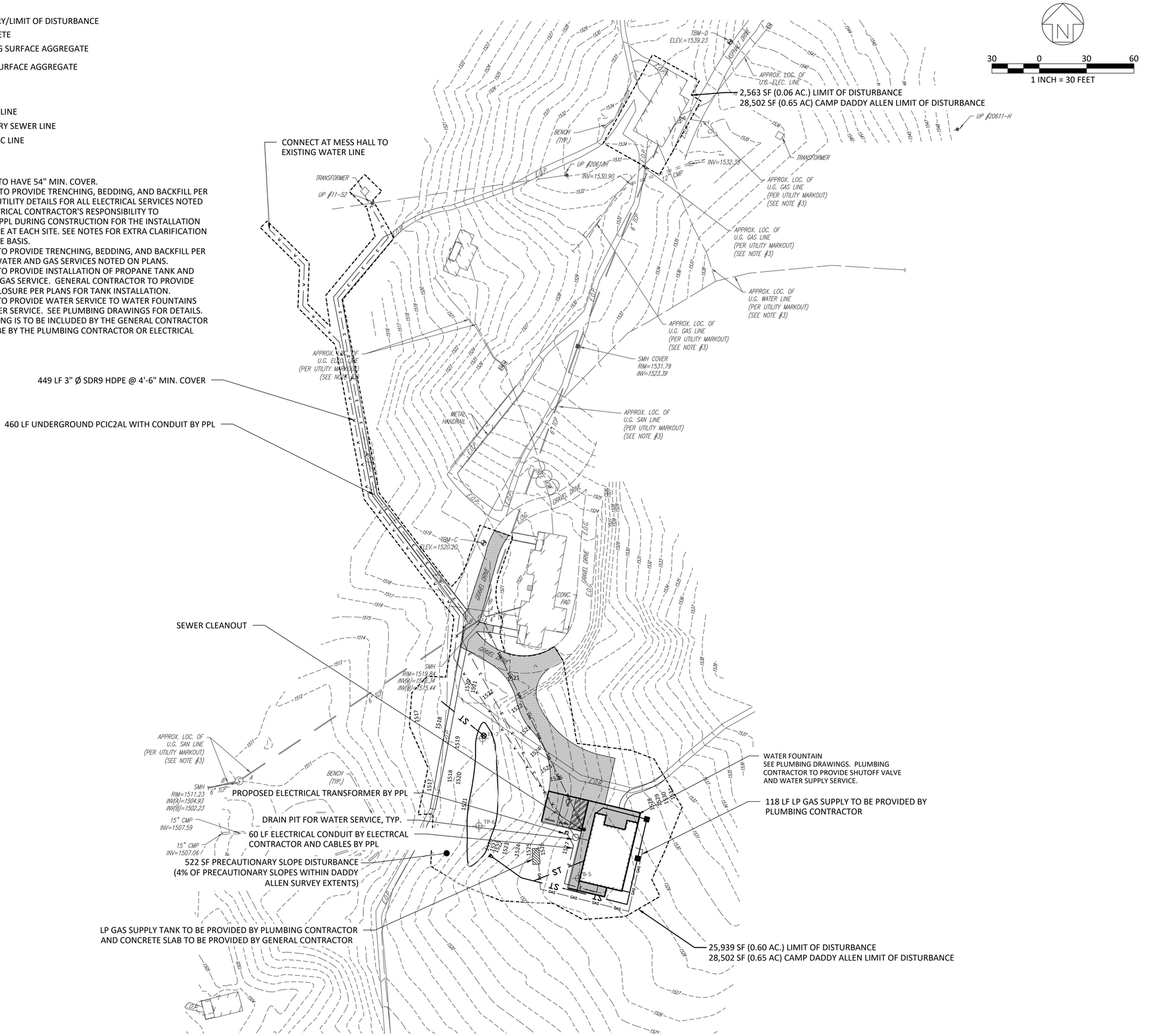
FILE PATH: j:\20201\20027 - hickory run state park\CAD\sheet files\20027 - LANDSCAPING PLAN.dwg
LAST SAVED: 2022.06.16 11:02 AM PLOTTED: 2022.06.17 04:29 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: SITE PLAN – CAMP DADDY ALLEN

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED CONCRETE
- PROPOSED DRIVING SURFACE AGGREGATE
- PROPOSED TRAIL SURFACE AGGREGATE
- SEWER MANHOLE
- SEWER CLEANOUT
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED ELECTRIC LINE
- STORM PIPE

Notes

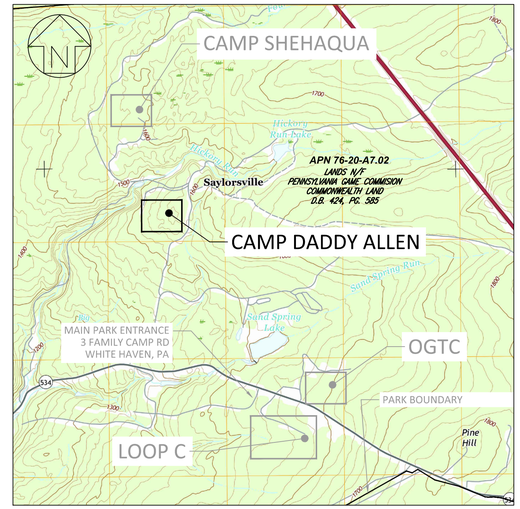
1. ALL NEW WATER SERVICE TO HAVE 54" MIN. COVER.
2. ELECTRICAL CONTRACTOR TO PROVIDE TRENCHING, BEDDING, AND BACKFILL PER PPL SPECIFICATIONS AND UTILITY DETAILS FOR ALL ELECTRICAL SERVICES NOTED ON PLANS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE FULLY WITH PPL DURING CONSTRUCTION FOR THE INSTALLATION OF THE ELECTRICAL SERVICE AT EACH SITE. SEE NOTES FOR EXTRA CLARIFICATION OF SCOPE ON A SITE BY SITE BASIS.
3. PLUMBING CONTRACTOR TO PROVIDE TRENCHING, BEDDING, AND BACKFILL PER UTILITY DETAILS FOR ALL WATER AND GAS SERVICES NOTED ON PLANS.
4. PLUMBING CONTRACTOR TO PROVIDE INSTALLATION OF PROPANE TANK AND SUPPLY LINE TO CONNECT GAS SERVICE. GENERAL CONTRACTOR TO PROVIDE DEVELOPED SITE AND ENCLOSURE PER PLANS FOR TANK INSTALLATION.
5. PLUMBING CONTRACTOR TO PROVIDE WATER SERVICE TO WATER FOUNTAINS AND DRAIN PITS FOR WATER SERVICE. SEE PLUMBING DRAWINGS FOR DETAILS.
6. ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE GENERAL CONTRACTOR EXCEPT WORK NOTED TO BE BY THE PLUMBING CONTRACTOR OR ELECTRICAL CONTRACTOR.



30 0 30 60

1 INCH = 30 FEET

SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080420

SIGNATURE 06/15/22 DATE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY PLAN – CAMP DADDY ALLEN

VERIFY SCALE

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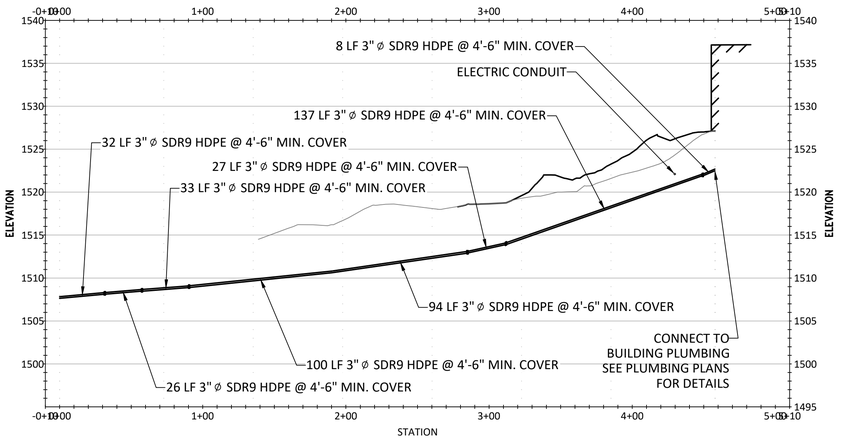
DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	CPE-23
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

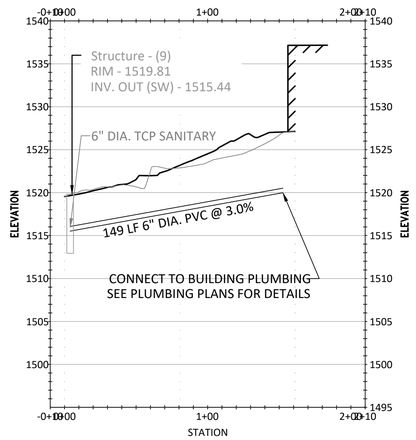
36 OF 144

BASE BID #3 – CAMP DADDY ALLEN

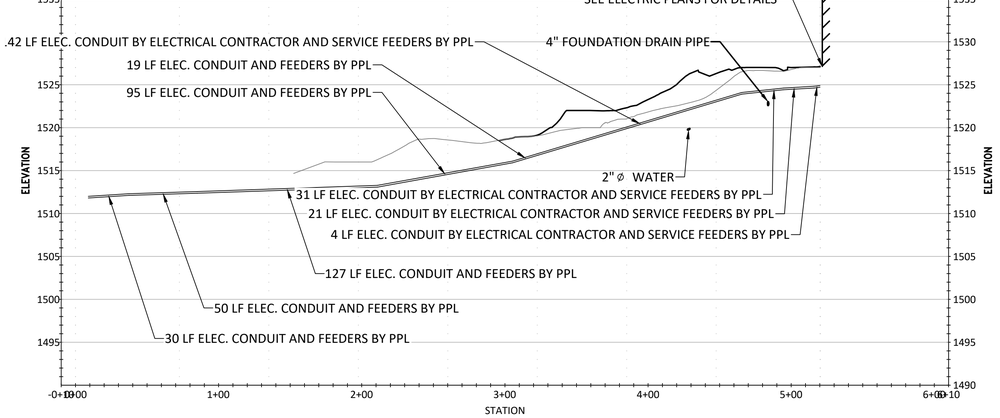
FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 – UTILITY PLAN_.dwg
LAST SAVED: 2022.06.17 02:24 PM PLOTTED: 2022.06.17 04:24 PM BY: Laura L. Gill
LAYOUT TAB: UTILITY PLAN – CAMP DADDY ALLEN



1 CPE-24 PROFILE VIEW
CAMP DADDY ALLEN - WATER LINE 1"=50' H, 1"=10' V



2 CPE-24 PROFILE VIEW
CAMP DADDY ALLEN - SANITARY SEWER1"=50' H, 1"=10' V



3 CPE-24 PROFILE VIEW
CAMP DADDY ALLEN - ELECTRIC LINE 1"=50' H, 1"=10' V

NOTES:

1. WATER AND SEWER LINES TO BE INSTALLED BELOW FROST DEPTH.
2. ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE GENERAL CONTRACTOR EXCEPT WORK NOTED TO BE BY THE PLUMBING CONTRACTOR OR ELECTRICAL CONTRACTOR.

CONSTRUCTION DOCUMENTS

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080430

06/15/22
SIGNATURE DATE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY PROFILES – CAMP DADDY ALLEN

VERIFY SCALE
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DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	CPE-24
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

37 OF 144

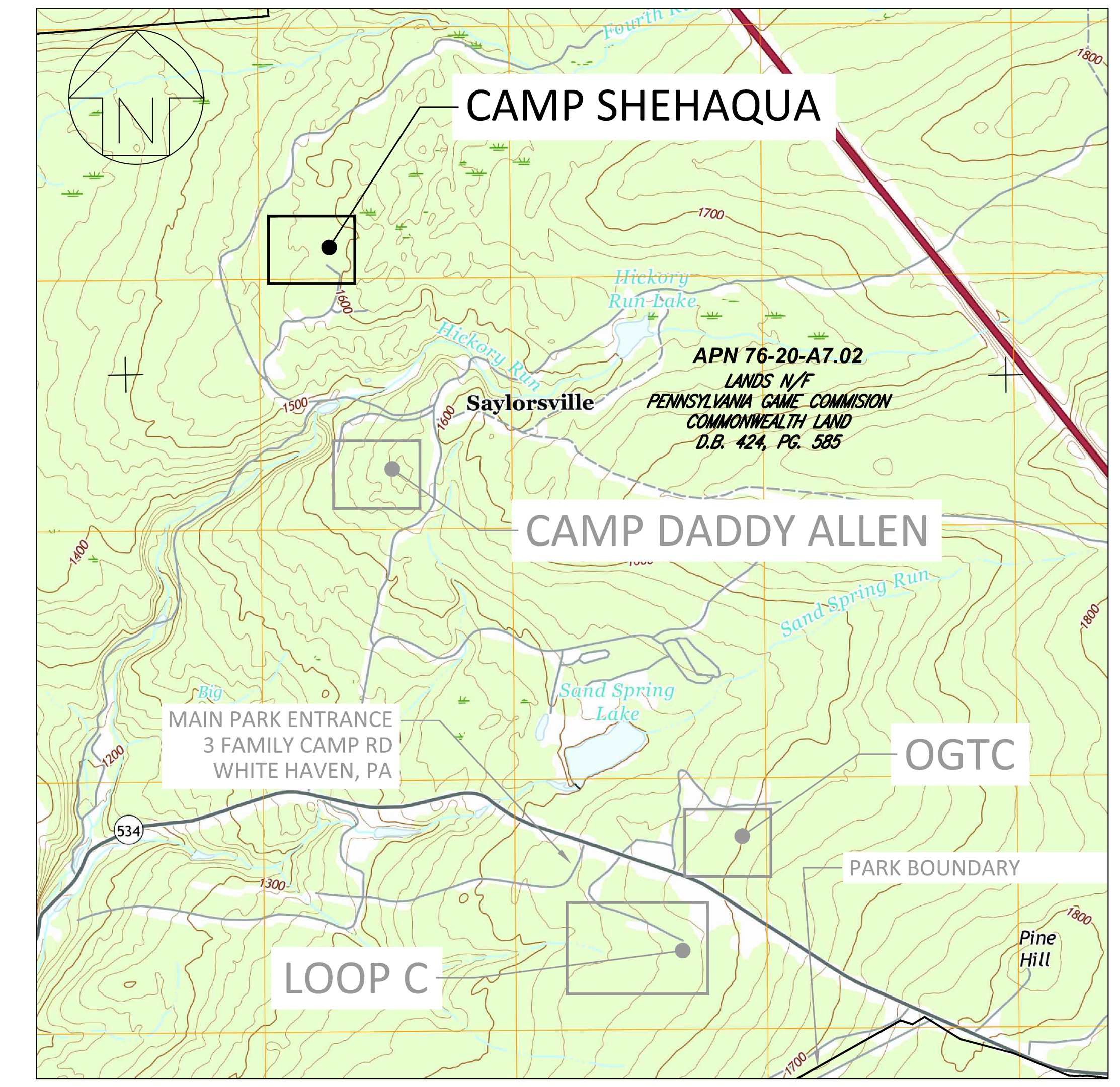
BASE BID #3 – CAMP DADDY ALLEN

FILE PATH: J:\2020\2027 - Hickory Run State Park\CAD\Sheet Files\2027-UTILITY PROFILES.dwg
LAST SAVED: 2022.06.17 02:52 PM PLOTTED: 2022.06.17 04:25 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: UTILITY PROFILES – CAMP DADDY ALLEN

LEGEND

—— S ——	EXISTING 6" PVC GRAVITY SEWER
—— W ——	EXISTING WATER MAIN
(symbol)	EXISTING UTILITY POLE
—— P ——	EXISTING POWER LINE
(symbol)	EXISTING TREE
– – – –	EXISTING CONTOUR
—— – – ——	LEGAL RIGHT–OF–WAY LINE
— — —	EXISTING EDGE OF PAVEMENT
Abcde	TEXT FOR EXISTING ITEMS
ABCDE	TEXT FOR EXISTING ITEMS
(symbol)	WOODS LINE
= = = =	EXISTING STORM SEWER
Ⓢ	EXISTING SANITARY MANHOLE
TP/B-9	SOIL TEST PIT (TP) OR BORING (B) LOCATION
(hatch)	SLOPES 15%–25%
(solid)	SLOPES >25%
(stipple)	WETLAND

SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — MARC B. HENDERSON — No. 080420

SIGNATURE 06/15/22 DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. C–114–0006 PHASE 1

VERIFY SCALE

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0 ▬ 1
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CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EXISTING CONDITIONS PLAN – CAMP SHEHAQUA

DRAWN BY	DATE 06/17/2022	DRAWING No. C–25
CHECKED BY	SCALE AS NOTED	38 OF 144

BASE BID #2 – CAMP SHEHAQUA

FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027 – EXISTING CONDITIONS PLAN (DGS).dwg LAYOUT TAB: EXISTING CONDITIONS PLAN – CAMP SHEHAQUA
LAST SAVED: 2022.06.15 04:53 PM PLOTTED: 2022.06.17 04:19 PM PLOTTED BY: Laura L. Gill

CONSTRUCTION SEQUENCE

THE CONSTRUCTION PLANS HAVE BEEN DEVELOPED BASED ON AVAILABLE INFORMATION PROVIDED BY DCNR (INCLUDING A COMPREHENSIVE SITE SURVEY). THE PROJECT AREA INCLUDES EXISTING UTILITIES OF UNKNOWN LOCATION AND DEPTH. ACTUAL CONDITIONS MAY DIFFER FROM THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONDITIONS PRIOR TO INITIATING WORK, AND FOR NOTIFYING THE DEPARTMENT IMMEDIATELY UPON BECOMING AWARE OF POTENTIAL CONFLICTS OR VARIATIONS IN CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UTILITY AND STRUCTURE LOCATIONS AND ELEVATIONS AS REQUIRED FOR CONSTRUCTION.
THE SITE WORK INCLUDES THE CONSTRUCTION OF MULTIPLE COMPONENTS INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF:

- EROSION AND SEDIMENTATION CONTROL MEASURES
- DEMOLITION OF ASSOCIATED SITE FEATURES AND REMOVAL OF PAVEMENT
- INSTALL NEW UTILITIES (STORMWATER, WATER, SANITARY SERVICE)
- STORMWATER PIPES AND STRUCTURES THAT CONVEY RUNOFF
- SITE IMPROVEMENT FEATURES
- PAVING AND STRIPING PARKING AREAS
- INSTALLATION OF LANDSCAPE COMPONENTS

DOCUMENTATION FOR THESE SITE COMPONENTS IS PROVIDED ON MULTIPLE PLAN SHEETS AND SPECIFICATIONS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF ALL SITE IMPROVEMENTS IN A MANNER TO AVOID CONFLICTS AND DAMAGE TO EXISTING SYSTEMS OR SITE COMPONENTS AS PART OF THIS PROJECT. UPON COMPLETION OR TEMPORARY CESSATION OF EARTH DISTURBANCE ACTIVITIES OR ANY STAGE THEREOF, THE PROJECT SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

1. STATE LAW REQUIRES A MINIMUM THREE DAY BUSINESS DAY NOTICE, BUT NOT MORE THAN TEN BUSINESS DAYS, PRIOR TO EARTH DISTURBANCE. ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES. CONFIRM LOCATIONS AND INVERTS.

2. THE GENERAL CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH DCNR PROJECT MANAGER AND DESIGN PROFESSIONAL OF RECORD. THE PROJECT DISTURBANCE AREA SHALL BE REVIEWED AT THIS MEETING. AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED TO OCCUR NO LESS THAN 7- DAYS PRIOR TO ANY EARTH DISTURBANCE UNLESS NOTIFIED OTHERWISE BY NERO DEP OR THE CARBON COUNTY CONSERVATION DISTRICT. PERMITTEES, CO-PERMITTEES, OPERATORS, ALL APPROPRIATE MUNICIPAL OFFICIALS, REPRESENTATIVES FROM THE CARBON COUNTY CONSERVATION DISTRICT AND THE NERO DEP, AND LICENSED PROFESSIONALS OR DESIGNEES RESPONSIBLE FOR THE EARTH DISTURBANCE ACTIVITY, INCLUDING IMPLEMENTATION OF E&S AND PCSM PLANS AND CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN, SHALL ATTEND A PRECONSTRUCTION MEETING. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES,

3. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY EXCEEDING 4 DAYS, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.

CAMP SHEHAQUA

1. INSTALL CONSTRUCTION FENCING, ROCK CONSTRUCTION ENTRANCE, TREE PROTECTION, COMPOST SOCK AND SEDIMENT TRAP AS SHOWN ON THE PLAN. NO DISTURBANCE CAN TAKE PLACE OUTSIDE OF THE LIMIT OF DISTURBANCE.

2. REMOVE TOPSOIL ONLY IN AREAS TO BE GRADED AND STOCKPILE IN AREA DELINEATED ON PLAN. INSTALL COMPOST SOCK AROUND STOCKPILE AS SHOWN. TOPSOIL IS TO REMAIN SEPARATE FROM SUBSOIL MATERIAL. TOPSOIL IS NOT TO LEAVE THE SITE WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.

3. PERFORM SITE DEMOLITION OF EXISTING BUILDING AND STRUCTURES AS INDICATED ON PLAN. ONLY DEMOLISH EXISTING STORMWATER PIPES AND INLETS AS THEY ARE REPLACED OR AFTER NEW CONVEYANCE IS PROVIDED. EXISTING BUILDINGS TO BE DEMOLISHED AFTER NEW BUILDINGS ARE COMPLETE.

4. INSTALL INFILTRATION BED. (CRITICAL STAGE)

5. INSTALL STRUCTURES AND STORMWATER PIPES AS INDICATED ON POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN.

6. THE FOLLOWING ITEMS ARE TO BE INSTALLED AS APPROPRIATE TO LOCATION AND ELEVATIONS ON THE PLAN:
   a. PERFORM MAJOR EXCAVATIONS AND ROUGH GRADE FOR CURB INSTALLATION AS INDICATED ON GRADING PLAN, REMOVING ANY DELETERIOUS MATERIAL 2-INCHES OR LARGER. REMOVE EXCESS CUT FROM SITE AND DISPOSE OF IN A LEGAL MANNER IN ACCORDANCE WITH THE SOLID WASTE MANAGEMENT REGULATIONS.
   b. INSTALL BUILDING COMPONENTS AS REQUIRED.
7. INSTALL WATER AND SANITARY UTILITIES AS APPROPRIATE TO LOCATION AND ELEVATIONS ON PLAN. LIMIT THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME TO THAT WHICH CAN BE EXCAVATED AND BACK-FILLED IN ONE WORKING DAY. NO MORE THAN 50 LINEAR FEET OF OPEN TRENCH SHOULD EXIST WHEN UTILITY LINE INSTALLATION CEASES AT THE END OF ANY WORK DAY. IMMEDIATELY STABILIZE DISTURBED AREAS.

8. GRADE AS SHOWN ON PLANS AND DETAILS. INSTALL EROSION CONTROL BLANKET IN AREAS SHOWN FOLLOWING ESTABLISHMENT OF FINAL GRADE. COORDINATE INSTALLATION WITH RIPARIAN BUFFER INSTALLATION AND LANDSCAPE RESTORATION.

9. INSTALL PAVEMENT AS SHOWN ON PLANS AND DETAILS.

10. INSTALL RAIN GARDEN (CRITICAL STAGE)

11. FINAL GRAVEL PLACEMENT FOR ALL ACCESS ROADS TO BE INSTALLED FOLLOWING COMPLETION OF ALL 4 PHASES OF CONSTRUCTION.

12. STRIPE PARKING AREAS AND INSTALL ANY MISCELLANEOUS SITE FEATURES AS APPROPRIATE SUCH AS SIGNS, WHEEL STOPS, ETC. FOLLOWING WEARING COURSE INSTALLATION.

13. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED (VEGETATED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED), REMOVE TEMPORARY EROSION AND SEDIMENTATION INLET PROTECTION CONTROLS ONLY. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST ALSO BE STABILIZED IMMEDIATELY.

PCSM BMP INSTALLATION

1. TO AVOID SOIL DISTURBANCE AND COMPACTION DURING CONSTRUCTION, AREAS FOR PROPOSED INFILTRATION STORMWATER MANAGEMENT PRACTICES MUST BE PHYSICALLY STAKED OUT BEFORE ANY SITE WORK BEGINS.
2. THE GENERAL CONTRACTOR SHALL FENCE OFF THE LOCATIONS OF ANY FUTURE INFILTRATION AREAS. THESE AREAS SHALL BE PROTECTED FROM COMPACTION AND HEAVY VEHICLE DISTURBANCE THROUGHOUT CONSTRUCTION.
3. ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES.
4. ALL REGULATORY AGENCIES INCLUDING KIDDER TOWNSHIP AND THE LOCAL CONSERVATION DISTRICT SHOULD BE NOTIFIED FOR INSPECTION AT LEAST THREE (3) DAYS IN ADVANCE OF THE CONSTRUCTION OF STORMWATER MANAGEMENT PRACTICES.
5. REMOVE TOPSOIL ONLY IN AREAS TO BE GRADED AND STOCKPILE IN AREA DELINEATED ON PLAN. INSTALL COMPOST SOCK AROUND STOCKPILE AS SHOWN. TOPSOIL IS TO REMAIN SEPARATE FROM SUBSOIL MATERIAL. TOPSOIL IS NOT TO LEAVE THE SITE WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.
6. EXCAVATION WILL BE REQUIRED TO REMOVE SURFACE HARDPAN AND ACHIEVE FINAL INFILTRATION BERM BOTTOM GRADES. ONCE FINAL EXCAVATION IS COMPLETED, USE ORANGE PLASTIC CONSTRUCTION FENCE OR OTHER MEANS AS NECESSARY TO PROTECT THESE AREAS FROM COMPACTION OR SILTATION.
7. THE PERMITTEE SHALL PROVIDE ENGINEERING CONSTRUCTION OVERSIGHT FOR THE PROPOSED STORMWATER BMPS. ADDITIONAL SOIL TESTING MAY BE REQUIRED PRIOR TO THE INSTALLATION OF BMPS TO ENSURE PROPER LOCATION AND FUNCTION. A LICENSED PROFESSIONAL ENGINEER KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF STORMWATER BMPS, PREFERABLY THE DESIGN PROFESSIONAL, SHALL CONDUCT THE OVERSIGHT.
8. ALL CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN REQUIRE THE DESIGN PROFESSIONAL TO BE PRESENT ON SITE.

9. INSTALL THE RAIN GARDENS. **CRITICAL STAGE**
   9.1. ROUGH GRADE RAIN GARDENS. DO NOT COMPACT FOOTPRINT.
   9.2. PLACE NON-WOVEN GEOTEXTILE AND BACKFILL THE EXCAVATED AREA WITH CLEAN-WASHED STONE AS SOON AS POSSIBLE TO AVOID ACCUMULATION OF DEBRIS. PLACE CLEAN-WASHED STONE STORAGE. WRAP FULLY WITH GEOTEXTILE. PLACE RAIN GARDEN SOILS IN 12- TO 18-INCH LIFTS, AND TAMP LIGHTLY BY HAND OR COMPACT BY WATERING EACH LIFT. SLIGHT OVERFILLING MIGHT BE NECESSARY TO ACCOUNT FOR SETTLEMENT. PRESOAK THE SOIL AT LEAST ONE DAY PRIOR TO FINAL GRADING AND LANDSCAPING TO ALLOW FOR SETTLEMENT.
   9.3. AFTER ALLOWING FOR SETTLEMENT, COMPLETE FINAL GRADING WITHIN ABOUT TWO INCHES OF THE PROPOSED DESIGN ELEVATION, LEAVING SPACE FOR TOP DRESSING.
   9.4. INSTALL ANY REMAINING STORMWATER STRUCTURES. CONNECT OVERFLOW STRUCTURES PER PLAN. INSTALL INLET PROTECTION AND DO NOT ALLOW SEDIMENT INTO PIPES AND STRUCTURES.
   9.5. ANY STONE WITHIN THE INFILTRATION SMP MUST REMAIN FREE OF SEDIMENT AND MEET THE WASHED STONE SPECIFICATIONS. IF SEDIMENT ENTERS THE STONE, THE GENERAL CONTRACTOR MAY BE REQUIRED TO REMOVE THE SEDIMENT AND REPLACE WITH CLEAN WASHED STONE.

10. INSTALL STORMWATER INFILTRATION BED *CRITICAL STAGE*
   10.1. INSTALL ANY REMAINING INLETS AND OVERFLOW CONTROL STRUCTURES INCLUDING RELATED E&S INLET PROTECTION. INSTALL PIPES. DO NOT ALLOW SEDIMENT TO ENTER ANY PIPES OR STRUCTURES
   10.2. EXISTING SUBGRADE MUST NOT BE COMPACTED AND CONSTRUCTION EQUIPMENT TRAFFIC MUST BE MINIMIZED PRIOR TO PLACEMENT OF GEOTEXTILE AND STONE. THE USE OF MACHINERY TO LOAD STONE FROM OUTSIDE OF FOOTPRINT IS RECOMMENDED. IF IT IS ESSENTIAL THAT EQUIPMENT BE USED IN THE EXCAVATED AREA, ALL EQUIPMENT MUST BE APPROVED BY THE DESIGN PROFESSIONAL. EQUIPMENT WITH NARROW TRACKS OR TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION AND MUST NOT BE USED. SHOULD SUBGRADE BE COMPACTED DURING CONSTRUCTION, ADDITIONAL TESTING OF SOIL INFILTRATION RATES MAY BE REQUIRED.
   10.3. BOTTOM OF BED IS TO BE PROTECTED FROM COMPACTION PER NOTES ON PCSM PLANS. TAKE CARE NOT TO EXCAVATE BELOW THE INDICATED BOTTOM OF THE BEDS.
   10.4. EXISTING SUBGRADE UNDER INFILTRATION BED AREAS SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO PLACEMENT OF GEOTEXTILE AND STONE BED.
   10.5. BRING SUBGRADE OF STONE INFILTRATION TO LINE, GRADE, AND ELEVATIONS INDICATED IN THE DRAWINGS. THE BOTTOM OF THE INFILTRATION BED MUST BE AT A LEVEL GRADE. THE DEPARTMENT AND DESIGN PROFESSIONAL SHALL BE NOTIFIED 24 HOURS PRIOR TO FINAL GRADING.
   10.6. IF BEDROCK OR GROUNDWATER IS ENCOUNTERED AT ANY TIME DURING EXCAVATION OF BEDS, EXCAVATION IS TO BE DISCONTINUED IN THE AFFECTED AREA AND THE DEPARTMENT AND DESIGN PROFESSIONAL NOTIFIED AT ONCE.
   10.7. NOTIFY DESIGN PROFESSIONAL TO INSPECT BED BOTTOM.
   10.8. PRIOR TO FINAL BED GRADING AND PLACEMENT OF GEOTEXTILE, UPGRADIENT AREAS SHALL BE SUFFICIENTLY STABILIZED SO AS TO PREVENT THE WASHING OF SEDIMENT INTO THE INFILTRATION AREAS. ALTERNATIVELY, THE GENERAL CONTRACTOR MAY INSTALL COMPOST SOCK IN ACCORDANCE WITH CONTRACT DOCUMENTS. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PREVENT THE DEPOSITION OF SEDIMENT OR SEDIMENT LADEN WATERS INTO THE INFILTRATION BEDS AFTER FINAL GRADING.
   10.9. PLACE GEOTEXTILE AND RECHARGE BED AGGREGATE IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION TO PREVENT ACCUMULATION OF DEBRIS OR SEDIMENT. ANY ACCUMULATION OF DEBRIS OR SEDIMENT WHICH HAS TAKEN PLACE AFTER APPROVAL OF SUBGRADE SHALL BE REMOVED PRIOR TO INSTALLATION OF GEOTEXTILE AT NO EXTRA COST TO THE DEPARTMENT. AGGREGATE INSTALLATION SHOULD TAKE PLACE AFTER CONTRIBUTING UPSTREAM DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
   10.10. PLACE GEOTEXTILE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF GEOTEXTILE FABRIC MUST OVERLAP A MINIMUM OF SIXTEEN INCHES (16"). FABRIC MUST BE SECURED AT LEAST FOUR FEET OUTSIDE OF BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE IS FULLY WRAPPED.
   10.11. INSTALL COARSE AGGREGATE IN EIGHT INCH (8") MAXIMUM LIFTS. LIGHTLY COMPACT EACH LAYER WITH EQUIPMENT, KEEPING EQUIPMENT MOVEMENT OVER STORAGE BEDS SUBGRADES TO A MINIMUM. INSTALL AGGREGATE TO GRADES SHOWN ON THE DRAWINGS.
   10.12. AGGREGATE SHALL BE CLEAN WITH A WASH LOSS OF NO MORE THAN 0.5%. AGGREGATE THAT DOES NOT MEET THIS CRITERIA WILL BE REMOVED AT NO EXTRA COST TO THE DEPARTMENT, AND THE BEDS RESTORED TO THE DEPARTMENT'S SATISFACTION.
   11. CONTINUE TO WRAP ENTIRE AGGREGATE STORAGE BED WITH GEOTEXTILE PRIOR TO BACKFILL.
   12. INSTALL REMAINING STORMWATER STRUCTURES AND PIPES AS INDICATED ON POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN.

13. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT APPROPRIATE REGULATORY AGENCIES FOR A FINAL INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.

14. REMOVE TEMPORARY EROSION CONTROL MEASURES AS APPROPRIATE.

15. THE NPDES NOTICE OF TERMINATION (N.O.T.) MUST BE SUBMITTED TO PA DEP UPON COMPLETION OF CONSTRUCTION (WHEN APPLICABLE).

THE FOLLOWING ARE CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN FOR WHICH THE DESIGN PROFESSIONAL SHOULD BE PRESENT ON SITE:
1. INFILTRATION BED EXCAVATION
2. INFILTRATION BED INSTALLATION
3. RAIN GARDEN INSTALLATION
4. LANDSCAPE RESTORATION

			Small Commercial Buildings		Shallow Excavations		Unpaved Local Roads and Streets		
	Map unit symbol	Map unit name	Rating	Rating reasons (numeric values)	Rating	Rating reasons (numeric values)	Rating	Rating reasons (numeric values)	Resolutions
SHEHAQUA	TuC	Tunkhannock gravelly loam, 8 to 15 percent slopes	Very limited	Slope (1.00)	Somewhat limited	Slope (0.63) Dusty (0.01) Unstable excavation walls (0.01)	Somewhat limited	Slope (0.63) Dusty (0.01)	Future Building sites were evaluated for subsurface conditions and those conditions informed the design of foundations. All roadwork proposed is the restoration of existing unpaved access roads within the park therefore the subbase and general conditions below the unpaved road have previously been improved and addressed for frost action and saturation depth. Geotechnical investigations have also identified depth to saturated zones and this information has also informed design of stormwater features which account for most shallow excavations on site. Utility installations are at risk of conflict with rock, cemented pans, saturated zones, and also unstable excavation walls and notes have been included to notify Engineer should these undesireable conditions be discovered during construction. All access roads are unpaved but improved roads which will limit dusty conditions of the native soil.

PCSM BMP MAINTENANCE SCHEDULE

BMP TYPE	INSPECTION SCHEDULE	MAINTENANCE DIRECTIONS	REPAIRS
RAIN GARDENS	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS AND IF SIGNS OF EROSION, CLOGGING, OR PLANT DAMAGE OCCUR	REMOVE DEBRIS FROM RAIN GARDENS REGULARLY. INSPECT FOR SIGNS OF EROSION (GULLIES), CLOGGING (PONDED WATER), AND DAMAGE TO VEGETATION.	REPAIR ERODED AREAS BY ADJUSTING GRADES PER DESIGN TO AVOID CONCENTRATED FLOWS BY USING EROSION CONTROL BLANKET OR BY ESTABLISHING VEGETATION. CLOGGING OF RAIN GARDEN SOILS MAY REQUIRE SOIL AMENDMENT, REPLACEMENT, OR A HYDRAULIC CONNECTION TO A PIPE OR SUBSURFACE STONE BED THAT IS NOT CLOGGED. DAMAGE TO VEGETATION SHOULD BE CONDUCTED PER THE ADVICE OF A QUALIFIED PROFESSIONAL.
STORMWATER STRUCTURES AND PIPES	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS	REMOVE DEBRIS FROM STRUCTURES REGULARLY AND FROM PIPES WHEN CLOGGED.	REPAIR DAMAGED PIPES AND STRUCTURES AS NEEDED.
SUBSURFACE STORAGE BEDS	DURING INSTALLATION AND IF SIGNS OF CLOGGING OCCUR	ENSURE PIPES AND STRUCTURES CONVEYING WATER TO BEDS ARE CLEAR TO PREVENT CLOGGING.	CLOGGED SUBSURFACE STORAGE BEDS MAY NEED TO BE REPLACED OR EQUIPPED WITH AN UNDERDRAIN IN THE CASE OF FAILURE.

NOTE: UNDER NO CIRCUMSTANCES SHALL SEDIMENT OR WASTE REMOVED FROM THE SYSTEMS BE DISPOSED OF ONSITE. ALL SEDIMENT AND/OR WASTE SHALL BE REMOVED OFF-SITE AND IN A LEGAL MANNER.

CONSTRUCTION DOCUMENTS

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

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06/15/22
SIGNATURE DATE

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SEQUENCE OF CONSTRUCTION - CAMP SHEHAQUA

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

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DATE: 06/17/2022
CHECKED BY: M HENDERSON
SCALE: AS NOTED
DRAWING No.: C-26
39 OF 144

BASE BID #2 - CAMP SHEHAQUA

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL NOTES.dwg
LAST SAVED: 2022.06.17 01:15 PM PLOTTED: 2022.06.17 04:05 PM PLOTTED BY: Laura L Gill
LAYOUT TAB: SEQUENCE OF CONSTRUCTION - CAMP SHEHAQUA

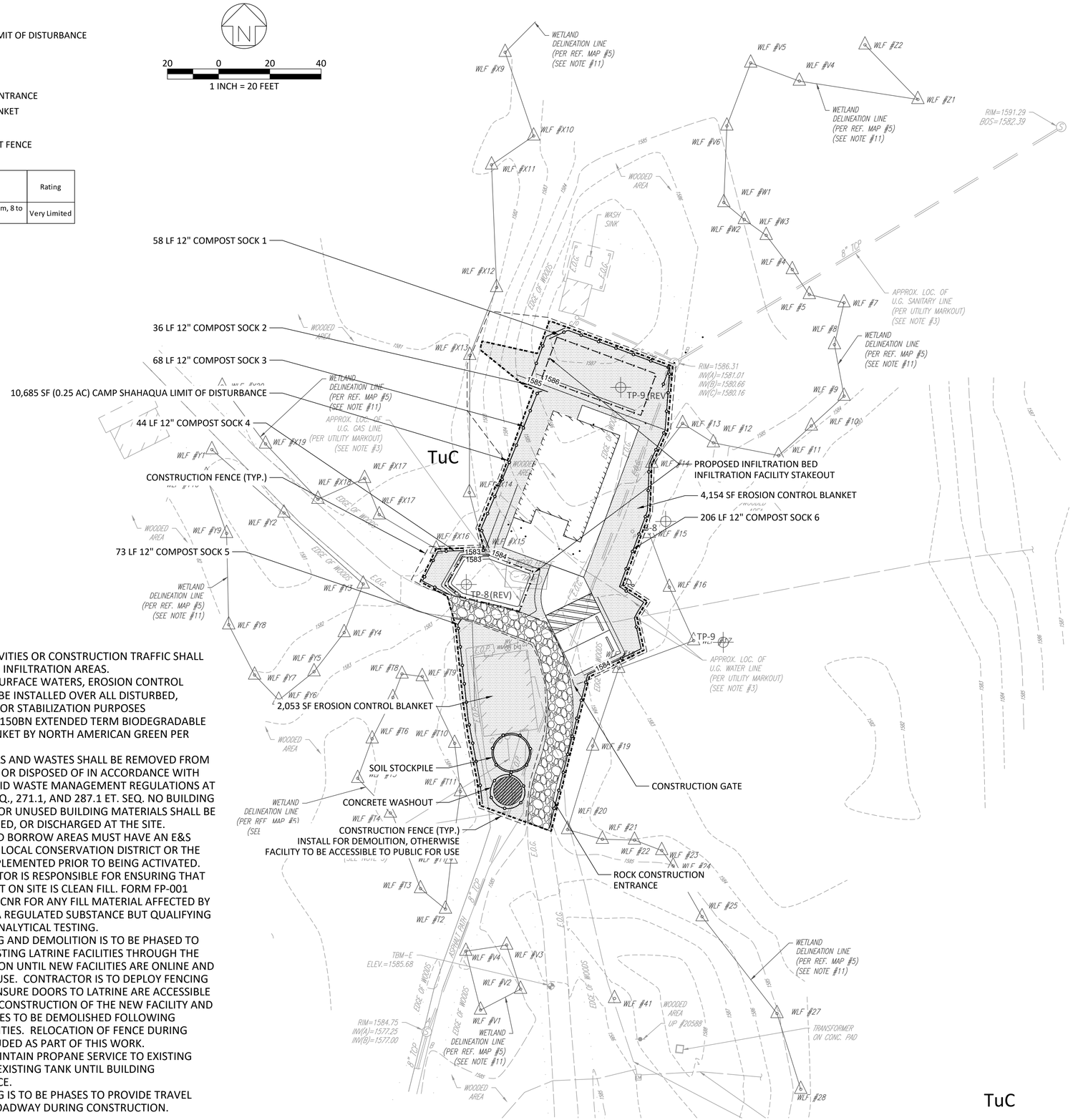
LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- TREE PROTECTION
- COMPOST SOCK
- CONSTRUCTION FENCE
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- SEDIMENT TRAP
- INFILTRATION STAKEOUT FENCE

Map Unit Symbol	Map Unit Name	Rating
TuC	Tunkhannock gravelly loam, 8 to 15 percent slopes	Very Limited

20 0 20 40

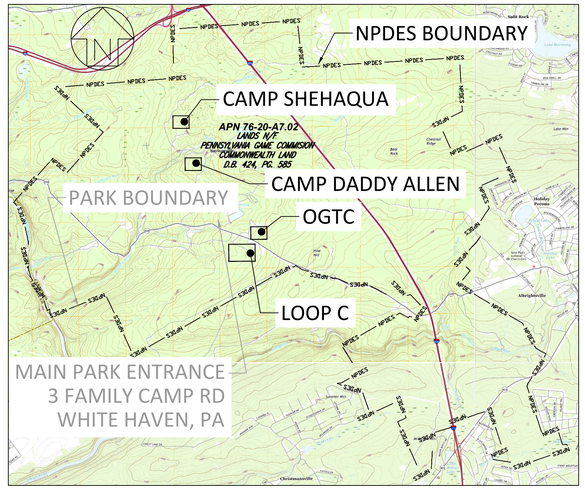
1 INCH = 20 FEET



NOTES:

- NO EARTHMOVING ACTIVITIES OR CONSTRUCTION TRAFFIC SHALL OCCUR OVER PROPOSED INFILTRATION AREAS.
- DUE TO PROXIMITY TO SURFACE WATERS, EROSION CONTROL BLANKET (ECB) SHOULD BE INSTALLED OVER ALL DISTURBED, NON-PAVED SURFACES FOR STABILIZATION PURPOSES
- ECB SHALL BE BIONET SC150BN EXTENDED TERM BIODEGRADABLE EROSION CONTROL BLANKET BY NORTH AMERICAN GREEN PER SPECIFICATIONS
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY DCNR FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- CONSTRUCTION FENCING AND DEMOLITION IS TO BE PHASED TO PROVIDE ACCESS TO EXISTING LATRINE FACILITIES THROUGH THE EXTENT OF CONSTRUCTION UNTIL NEW FACILITIES ARE ONLINE AND AVAILABLE FOR PUBLIC USE. CONTRACTOR IS TO DEPLOY FENCING IN SUCH A WAY AS TO ENSURE DOORS TO LATRINE ARE ACCESSIBLE TO THE PUBLIC DURING CONSTRUCTION OF THE NEW FACILITY AND ONLY FENCE OFF LATRINES TO BE DEMOLISHED FOLLOWING OPENING OF NEW FACILITIES. RELOCATION OF FENCE DURING CONSTRUCTION IS INCLUDED AS PART OF THIS WORK.
- CONTRACTOR MUST MAINTAIN PROPANE SERVICE TO EXISTING LATRINE FACILITY WITH EXISTING TANK UNTIL BUILDING DEMOLITION TAKES PLACE.
- CONSTRUCTION FENCING IS TO BE PHASES TO PROVIDE TRAVEL ACCESS BY PUBLIC TO ROADWAY DURING CONSTRUCTION.

SITE LOCATION



SCALE: 1" = 2000'

PA ONE CALL SERIAL NUMBER - 20202343070

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EROSION AND SEDIMENT CONTROL PLAN – CAMP SHEHAQUA

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

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L GILL	06/17/2022	C-27
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M HENDERSON	AS NOTED	

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL PLAN.dwg
LAST SAVED: 2022.12.05 08:43 AM PLOTTED: 2022.12.05 08:45 AM PLOTTED BY: Marc Henderson
LAYOUT TAB: EROSION AND SEDIMENT CONTROL PLAN – CAMP SHEHAQUA

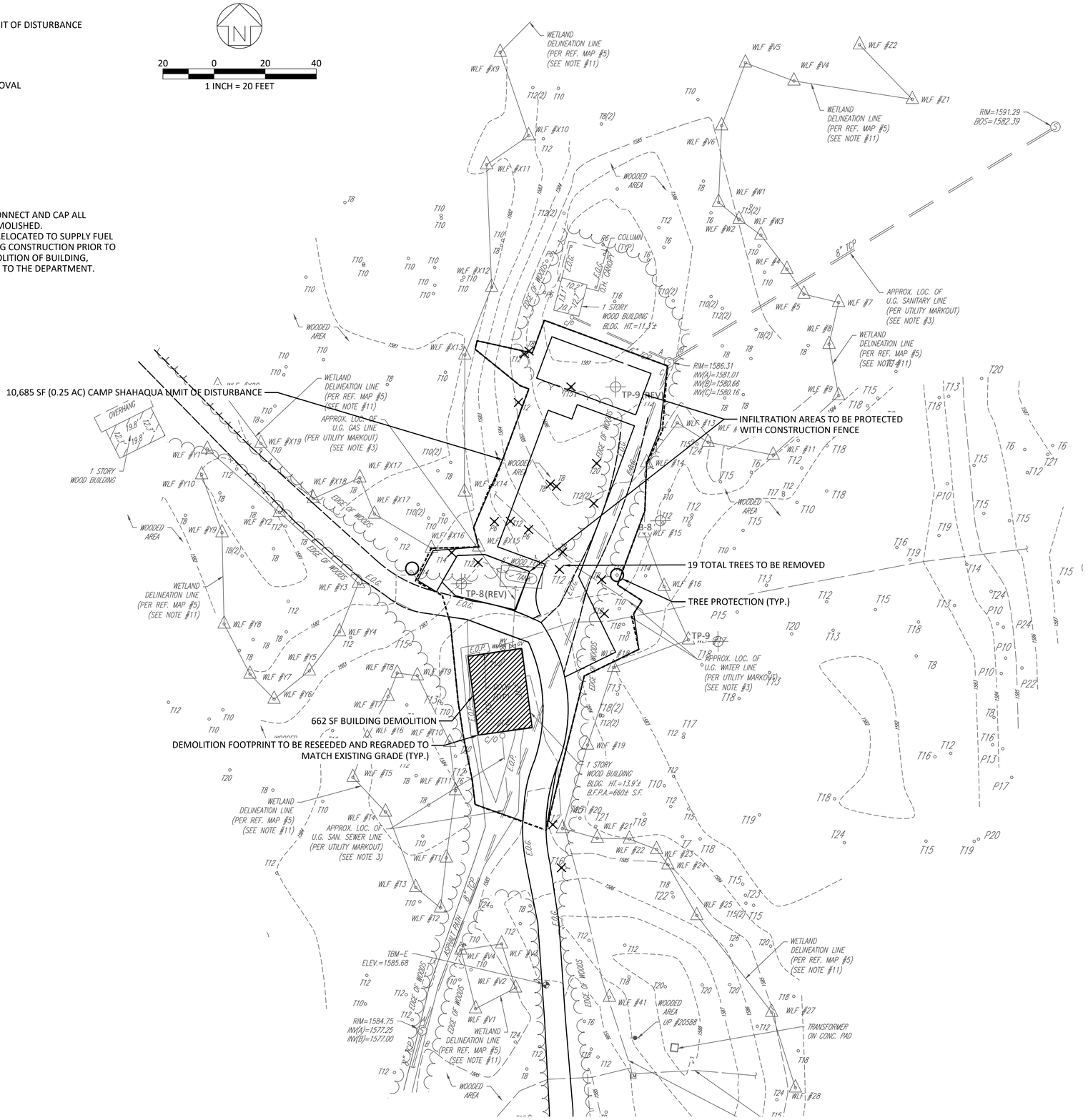
LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- TREE TO BE REMOVED
- TREE TO BE PROTECTED
- TREE TO BE IMPACTED
- UTILITY STRUCTURE REMOVAL
- UTILITY LINE REMOVAL
- BUILDING DEMOLITION
- CONCRETE DEMOLITION

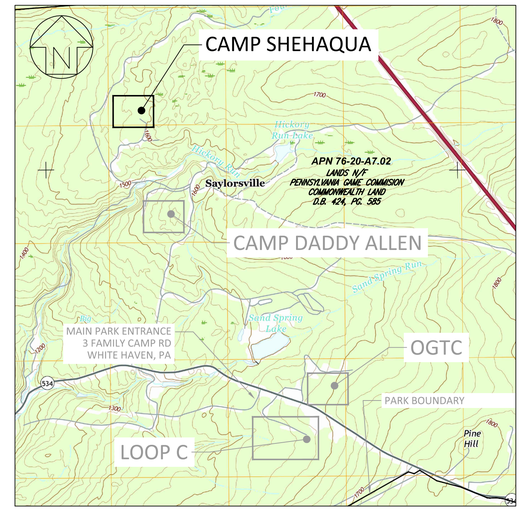
20 0 20 40

1 INCH = 20 FEET

NOTES:
1. GENERAL CONTRACTOR TO DISCONNECT AND CAP ALL UTILITIES TO BUILDING TO BE DEMOLISHED.
2. EXISTING PROPANE TANK TO BE RELOCATED TO SUPPLY FUEL TO EXISTING BATH HOUSE DURING CONSTRUCTION PRIOR TO DEMOLITION. FOLLOWING DEMOLITION OF BUILDING, PROPANE TANK TO BE RETURNED TO THE DEPARTMENT.



SITE LOCATION



SCALE: 1" = 2000'

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
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DEMOLITION PLAN – CAMP SHEHAQUA

VERIFY SCALE

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L GILL	06/17/2022	C-28
CHECKED BY: M HENDERSON	SCALE: AS NOTED	41 OF 144

BASE BID #2 – CAMP SHEHAQUA

FILE PATH: j:\2020\20027 – hickory run state park\CAD\sheet files\20027 – DEMOLITION PLAN.dwg
LAST SAVED: 2022.06.15 10:23 AM PLOTTED: 2022.06.17 04:09 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: DEMOLITION PLAN – CAMP SHEHAQUA

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- 1519 CONTOUR
- ST STORM PIPE
- INFILTRATION BED
- RAIN GARDEN
- TP/B-9 SOIL TEST PIT (TP) OR BORING (B) LOCATION
- FLARED END SECTION
- SPLASH BLOCK
- OBSERVATION WELL

10 0 10 20
1 INCH = 10 FEET

FLARE END WITH SPLASH BLOCK

27 LF 6" HDPE STORM PIPE @ 3.41%

INFILTRATION BED - SHEHAQUA
41.33 FT. x 17.28 FT. x 2.17 FT.
TOP OF STONE - 1583.83
BOTTOM OF STONE - 1582.00
7 - 40 LF 15" Ø N-12 PIPES

13 LF 6" HDPE STORM PIPE @ 1.72%

53 LF 6" HDPE STORM PIPE @ 1%

11 LF 4" FOUNDATION DRAIN PIPE

515 SF RAINGARDEN
283 SF LEVEL BED BOTTOM
TOP OF BERM - 1583.00

10,685 SF (0.25 AC) CAMP SHAHAQUA LIMIT OF DISTURBANCE

TRENCH DRAIN WITH SPLASH BLOCK
INVERT - 1583.00
TOP OF TRENCH DRAIN - 1583.50

13 LF 6" HDPE STORM PIPE @ 1.76%

53 LF 6" HDPE STORM PIPE @ 1%

215 LF INFILTRATION INFILTRATION PROTECTION - ORANGE CONSTRUCTION FENCE

TP-8 (REV)

TP-9 (REV)

TP-9

B-8

DS-1

DS-4

RIM=1586.31
INV(A)=1581.01
INV(B)=1580.66
INV(C)=1580.16

LEVEL BOTTOM - 1582.5

WETLAND DELINEATION LINE (PER REF. MAP #5) (SEE NOTE #11)

APPROX. LOC. OF U.G. SAN. SEWER LINE (PER UTILITY MARKOUT) (SEE NOTE 3)

APPROX. LOC. OF U.G. WATER LINE (PER UTILITY MARKOUT) (SEE NOTE #3)

1 STORY WOOD BUILDING
BLDG. HT.=13.9'±
B.F.P.A.=660± S.F.

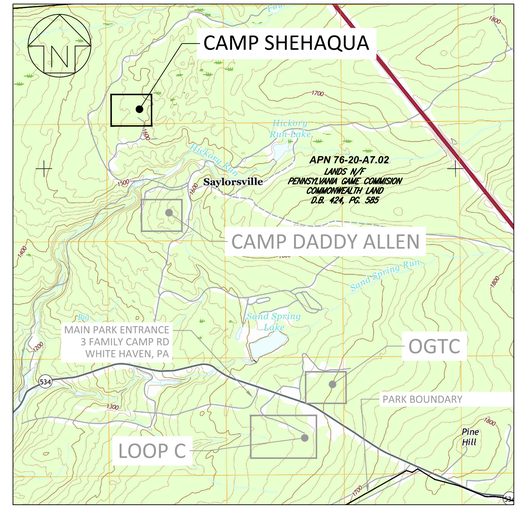
WOODED AREA

NOTES:
1. PROPOSED SANITARY AND/OR ELECTRICAL UTILITY CLEARING TO BE REGRADED TO MATCH EXISTING GRADE AND REMAIN CLEARED AND OPEN FOR PEDESTRIAN ACCESS.
2. GENERAL CONTRACTOR RESPONSIBLE FOR CONNECTIONS FROM BUILDING DOWNSPOUTS TO STORMWATER SYSTEM. DOWNSPOUT CONNECTIONS VARY BY TYPE AND LOCATION. SEE PLANS FOR DOWNSPOUT CONNECTION DETAILS.

BORING ID	SURFACE ELEVATION	BORING DEPTH	OBSERVED WATER SURFACE DEPTH
B-8	1585.0' ±	25'	N/A

STORMWATER TEST PIT ID	SURFACE ELEVATION	PIT DEPTH	TEST DEPTH	AVERAGE FIELD INFIL. RATE (IN/HR)	FACTOR OF SAFETY	DESIGN INFIL. RATE (IN/HR)
TP-9	1582'	N/A, LIMITING ZONE AT 3' (WATER)			--	--
TP-9 (REV)	1586'	6.75,	4.75	1.09	2.0	0.535
TP-8 (REV)	1583'	3.4	1.4	1.19	2.0	0.595

SITE LOCATION



SCALE: 1" = 2000'

PA ONE CALL SERIAL NUMBER - 20202343070

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

STORMWATER AND GRADING PLAN – CAMP SHEHAQUA

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY: L GILL
DATE: 06/17/2022
CHECKED BY: M HENDERSON
SCALE: AS NOTED
DRAWING No.: C-29
42 OF 144

BASE BID #2 – CAMP SHEHAQUA

FILE PATH: J:\2020\20027 - hickory run state park\C4D\sheet files\20027 – STORMWATER AND GRADING PLAN.dwg LAYOUT TAB: STORMWATER AND GRADING PLAN – CAMP SHEHAQUA
LAST SAVED: 2022.06.13 10:43 AM PLOTTED: 2022.06.17 04:11 PM PLOTTED BY: Laura L. Gill

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED CONCRETE
- PROPOSED DRIVING SURFACE AGGREGATE
- PROPOSED LANDSCAPE RESTORATION

10 0 10 20

1 INCH = 10 FEET

3 SF SIDEWALK DOWELED TO FOUNDATION
SEE STRUCTURAL PLANS FOR DETAILS

10,685 SF (0.25 AC) CAMP SHAHAQUA LIMIT OF DISTURBANCE

4,154 SF ERNST PARTIAL SHADED ROADSIDE MIX

VEHICULAR SLAB
SEE STRUCTURAL PLANS FOR DETAILS

2,060 SF ERNST PARTIAL SHADED ROADSIDE MIX

GENERAL CONTRACTOR TO RESTORE DRIVING SURFACE AGGREGATE WHERE CONSTRUCTION HAS IMPACTED THE SURFACE

26 SF DRIVING SURFACE AGGREGATE (DSA)

TP-9 (REV)

TP-8 (REV)

B-8

1 STORY WOOD BUILDING
BLDG. HT.=13.9'±
B.F.P.A.=660± S.F.

RIM=1586.31
INV(A)=1581.01
INV(B)=1580.66
INV(C)=1580.16

APPROX. LOC. OF U.G. GAS LINE (PER UTILITY MARKOUT) (SEE NOTE #3)

APPROX. LOC. OF U.G. WATER LINE (PER UTILITY MARKOUT) (SEE NOTE #3)

APPROX. LOC. OF U.G. SAN. SEWER LINE (PER UTILITY MARKOUT) (SEE NOTE 3)

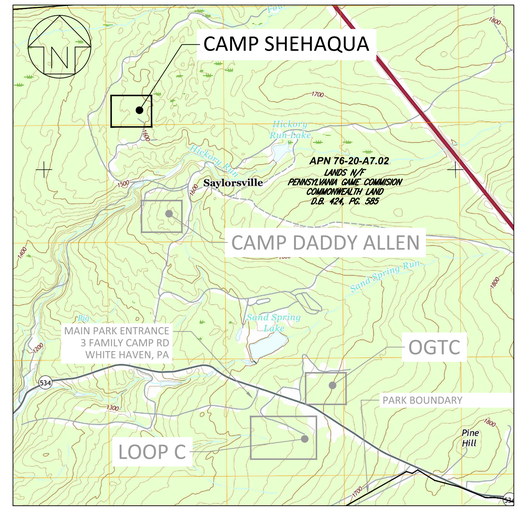
WETLAND DELINEATION LINE (PER REF. MAP #5) (SEE NOTE #11)

WOODED AREA

EDGE OF WOODS

E.O.G.

SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

meliora

259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SITE PLAN – CAMP SHEHAQUA

VERIFY SCALE

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0 1
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CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C–30
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

43 OF 144

BASE BID #2 – CAMP SHEHAQUA

FILE PATH: J:\2020\20027 - Hickory run state park\CAD\sheet files\20027 - LANDSCAPING PLAN.dwg
LAST SAVED: 2022.06.16 11:02 AM PLOTTED: 2022.06.17 04:13 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: SITE PLAN – CAMP SHEHAQUA

LEGEND

- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
- PROPOSED CONCRETE
- PROPOSED DRIVING SURFACE AGGREGATE
- SEWER MANHOLE
- SEWER CLEANOUT
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED ELECTRIC LINE
- STORM PIPE

20 0 20 40

1 INCH = 20 FEET

DRAIN PIT FOR WATER SERVICE, TYP.

10,685 SF (0.25 AC) CAMP SHAHAQUA LIMIT OF DISTURBANCE

26 LF 3" Ø SDR9 HDPE @ 4'-6" MIN. COVER

CONNECT TO EXISTING WATER SERVICE

SEWER CLEANOUT

34 LF 6" DIA. PVC @ 1.6%

81 LF 3" Ø SDR9 HDPE @ 4'-6" MIN. COVER

159 LF PRIVATE ELECTRICAL SERVICE

NEW CABINET AND PAD HOUSING METER AND PANEL. PRIVATE ELECTRICAL SERVICE BEGINNING.

WATER FOUNTAIN BY OTHERS

89 LF LP GAS SUPPLY TO BE PROVIDED BY PLUMBING CONTRACTOR

CONNECT TO EXISTING WATER SERVICE

LP GAS SUPPLY TANK TO BE PROVIDED BY PLUMBING CONTRACTOR AND CONCRETE SLAB TO BE PROVIDED BY GENERAL CONTRACTOR

WETLAND DELINEATION LINE (PER REF. MAP #5) (SEE NOTE #11)

APPROX. LOC. OF U.G. GAS LINE (PER UTILITY MARKOUT) (SEE NOTE #3)

APPROX. LOC. OF U.G. SANITARY LINE (PER UTILITY MARKOUT) (SEE NOTE #3)

APPROX. LOC. OF U.G. WATER LINE (PER UTILITY MARKOUT) (SEE NOTE #3)

APPROX. LOC. OF U.G. SAN. SEWER LINE (PER UTILITY MARKOUT) (SEE NOTE 3)

RIM=1591.29
BOS=1582.39

RIM=1586.31
INV(A)=1581.01
INV(B)=1580.66
INV(C)=1580.16

TBM-E
ELEV.=1585.68

RIM=1584.75
INV(A)=1577.25
INV(B)=1577.00

WOODED AREA

WASH SINK

TP-9

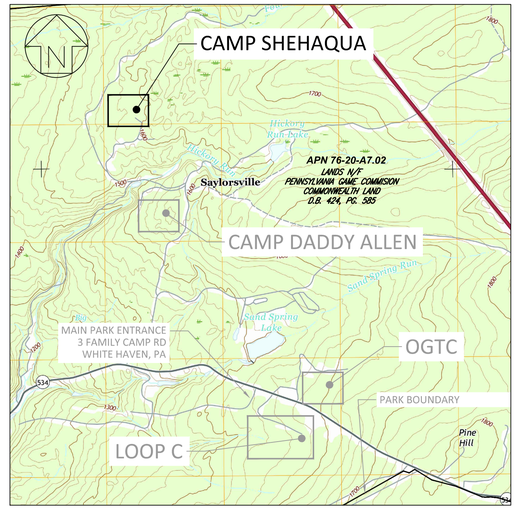
WOODED AREA UP #20588

TRANSFORMER ON CONC. PAD

Notes

1. ALL NEW WATER SERVICE TO HAVE 54" MIN. COVER.
2. ELECTRICAL CONTRACTOR TO PROVIDE TRENCHING, BEDDING, AND BACKFILL PER PPL SPECIFICATIONS AND UTILITY DETAILS FOR ALL ELECTRICAL SERVICES NOTED ON PLANS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE FULLY WITH PPL DURING CONSTRUCTION FOR THE INSTALLATION OF THE ELECTRICAL SERVICE AT EACH SITE. SEE NOTES FOR EXTRA CLARIFICATION OF SCOPE ON A SITE BY SITE BASIS.
3. PRIVATE ELECTRIC UTILITY SERVICES FROM THE METER REQUIRES ELECTRICAL CONTRACTOR TO SUPPLY ALL WORK REQUIRED FOR INSTALLATION INCLUDING TRENCHING, CONDUIT, AND FEEDERS. SEE ELECTRICAL DRAWINGS FOR PRIVATE UTILITY SERVICE COORDINATION.
4. PLUMBING CONTRACTOR TO PROVIDE TRENCHING, BEDDING, AND BACKFILL PER UTILITY DETAILS FOR ALL WATER AND GAS SERVICES NOTED ON PLANS.
5. PLUMBING CONTRACTOR TO PROVIDE INSTALLATION OF PROPANE TANK AND SUPPLY LINE TO CONNECT GAS SERVICE. GENERAL CONTRACTOR TO PROVIDE DEVELOPED SITE AND ENCLOSURE PER PLANS FOR TANK INSTALLATION.
6. PLUMBING CONTRACTOR TO PROVIDE WATER SERVICE TO WATER FOUNTAINS AND DRAIN PITS FOR WATER SERVICE. SEE PLUMBING DRAWINGS FOR DETAILS.
7. ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE GENERAL CONTRACTOR EXCEPT WORK NOTED TO BE BY THE PLUMBING CONTRACTOR OR ELECTRICAL CONTRACTOR.

SITE LOCATION



SCALE: 1" = 2000'

CONSTRUCTION DOCUMENTS

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(610) 933-0123 melioradesign.com

RECORD REVISIONS

PROFESSIONAL ENGINEER — REGISTERED PROFESSIONAL — MARC B. HENDERSON — ENGINEER — No. 080420 — COMMONWEALTH OF PENNSYLVANIA

SIGNATURE 06/15/22 DATE

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY PLAN –
CAMP SHEHAQUA

VERIFY SCALE

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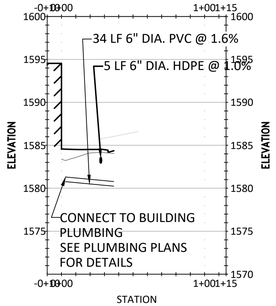
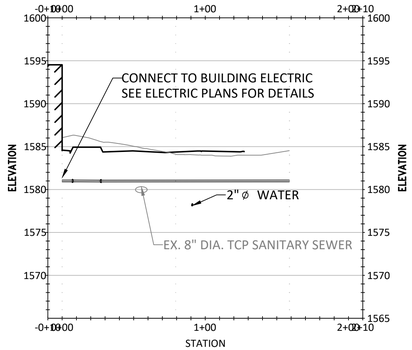
DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	CPE–31
CHECKED BY: M HENDERSON	SCALE: AS NOTED	44 OF 144

BASE BID #2 – CAMP SHEHAQUA

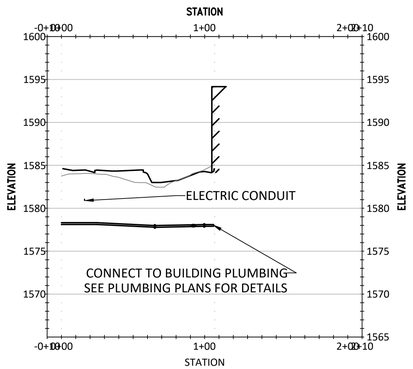
FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027 – UTILITY PLAN_.dwg
LAST SAVED: 2022.06.17 02:24 PM PLOTTED: 2022.06.17 04:40 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: UTILITY PLAN – CAMP SHEHAQUA



1 CPE-32 **PROFILE VIEW**
CAMP SHEHAQUA - SANITARY SEWER 1"=50' H, 1"=10' V



2 CPE-32 **PROFILE VIEW**
CAMP SHEHAQUA - ELECTRIC LINE 1"=50' H, 1"=10' V



3 CPE-32 **PROFILE VIEW**
CAMP SHEHAQUA - WATER LINE 1"=50' H, 1"=10' V

NOTES:

1. WATER AND SEWER LINES TO BE INSTALLED BELOW FROST DEPTH.
2. ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE GENERAL CONTRACTOR EXCEPT WORK NOTED TO BE BY THE PLUMBING CONTRACTOR OR ELECTRICAL CONTRACTOR.

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

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ENGINEER
No. 080420
COMMONWEALTH OF PENNSYLVANIA

06/15/22
SIGNATURE DATE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY PROFILES – CAMP SHEHAQUA

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	CPE–32
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

45 OF 144

BASE BID #2 – CAMP SHEHAQUA

FILE PATH: J:\2020\20027 – Hickory Run State Park\CAD\Sheet Files\20027-UTILITY PROFILES.dwg
LAST SAVED: 2022.06.17 02:52 PM PLOTTED: 2022.06.17 04:04 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: UTILITY PROFILES – CAMP SHEHAQUA

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES (DCNR) AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. STATE LAW REQUIRES A MINIMUM THREE DAY BUSINESS DAY NOTICE, BUT NOT MORE THAN TEN BUSINESS DAYS, PRIOR TO EARTH DISTURBANCE. ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES. CONFIRM LOCATIONS AND INVERTS.
4. THE KIDDER TOWNSHIP ENGINEER AND THE DCNR ENGINEER SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY CONSTRUCTION OF INSTALLATION OPERATION, IN ORDER THAT PROVISION MAY BE MADE FOR INSPECTION BY KIDDER TOWNSHIP AND DCNR.
5. CONSTRUCTION AND INSTALLATION OPERATIONS SHALL ALSO BE SUBJECT TO INSPECTION BY KIDDER TOWNSHIP OFFICIALS DURING THE PROGRESS OF THE WORK AND THE SUBDIVIDER, DEVELOPER, OR BUILDER SHALL PAY FOR ALL INSPECTIONS.
6. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
7. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
8. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
9. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
10. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
11. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
12. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
13. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
14. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY DCNR FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
15. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
16. VEHICLES AND EQUIPMENT MUST ENTER DIRECTLY OR EXIT DIRECTLY THROUGH THE CONSTRUCTION ENTRANCE OFF OF ALAN WOOD ROAD. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE PROPERLY MAINTAINED. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
17. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
18. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
19. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
20. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES — 6 TO 12 INCHES ON COMPACTED SOILS — PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
21. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
22. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
23. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
24. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
25. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
26. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
27. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
28. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
29. WEED-FREE HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE OR PER SEEDING (TURF AND GRASSES) SPECIFICATION. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
30. IN AREAS WHERE SEED HAS NOT GERMINATED TEMPORARY STABILIZATION SHALL BE OATS OR WINTER WHEAT AT 30 LBS. PER ACRE OR 10 LBS. PER 1000 S.F.
31. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
32. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
33. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, DCNR AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
34. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
35. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, DCNR AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
36. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO $10,000 PER DAY IN CIVIL PENALTIES, UP TO $10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO $25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

ADDITIONAL NOTES

1. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
2. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
3. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
4. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
5. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
6. SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES.
7. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND DCNR OF THE DAMAGED PROPERTY.
8. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWINGS) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
9. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
10. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 6" LAYERED LIFTS AT 95% DENSITY.

NPDES NOTES

1. RECEIVING WATERS: HICKORY RUN CREEK, COLD WATER FISHERY AND MIGRATORY FISH
2. WATERSHED: STONY CREEK-LEHIGH RIVER
3. SUB-BASIN: HICKORY RUN
4. SOILS WITHIN THE PROJECT AREA BY SITE. CAMP DADDY ALLEN AND CAMP SHEHAQUA ARE UNDERLAIN BY TUNKHANNOCK GRAVELLY LOAM (TUC AND TUD, RESPECTIVELY), WHILE OGTC IS UNDERLAIN BY WURSTBORO VERY STONY LOAM (WVB) AND WURTSBORO CHANNERY LOAM (WUB2) AND LOOP C IS UNDERLAIN BY SWARTSWOOD VERY STONY LOAM.

RECYCLING PROGRAM

1. THE CONTRACTOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP OR DISCHARGE ANY BUILDING MATERIAL OR WASTES. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIAL, CONCRETE WASH WATER, SANITARY WASTES, ETC., WHICH COULD ADVERSELY IMPACT WATER QUALITY.

OPERATION AND MAINTENANCE

1. THE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION & MAINTENANCE OF ALL E&S AND STORMWATER MANAGEMENT FACILITIES DURING CONSTRUCTION. UPON FINAL APPROVAL AND ACCEPTANCE OF THE PROJECT BY DCNR WILL ASSUME RESPONSIBILITY FOR ALL LONG-TERM MAINTENANCE.
2. A WRITTEN MAINTENANCE REPORT MUST BE KEPT AT THE SITE DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE SITE CONTRACTOR TO ENSURE THAT THIS OPERATION & MAINTENANCE SCHEDULE BE MAINTAINED AND LOGGED.

PCSM BMP MAINTENANCE SCHEDULE

BMP TYPE	INSPECTION SCHEDULE	MAINTENANCE DIRECTIONS	REPAIRS
RAIN GARDENS	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS AND IF SIGNS OF EROSION, CLOGGING, OR PLANT DAMAGE OCCUR	REMOVE DEBRIS FROM RAIN GARDENS REGULARLY. INSPECT FOR SIGNS OF EROSION (GULLIES). CLOGGING (PONDED WATER), AND DAMAGE TO VEGETATION.	REPAIR ERODED AREAS BY ADJUSTING GRADES PER DESIGN TO AVOID CONCENTRATED FLOWS BY USING EROSION CONTROL BLANKET OR BY ESTABLISHING VEGETATION. CLOGGING OF RAIN GARDEN SOILS MAY REQUIRE SOIL AMENDMENT, REPLACEMENT, OR A HYDRAULIC CONNECTION TO A PIPE OR SUBSURFACE STONE BED THAT IS NOT CLOGGED. DAMAGE TO VEGETATION SHOULD BE CONDUCTED PER THE ADVICE OF A QUALIFIED PROFESSIONAL.
INFILTRATION BERMS/LEVEL SPREADERS	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS AND IF SIGNS OF EROSION OR VEGETATION DAMAGE OCCUR	REMOVE DEBRIS FROM BMPS REGULARLY. INSPECT FOR SIGNS OF EROSION (GULLIES) AND DAMAGE TO VEGETATION.	REPAIR ERODED AREAS BY ADJUSTING GRADES PER DESIGN TO AVOID CONCENTRATED FLOWS BY USING EROSION CONTROL BLANKET OR BY ESTABLISHING VEGETATION. DAMAGE TO VEGETATION SHOULD BE CONDUCTED PER THE ADVICE OF A QUALIFIED PROFESSIONAL.
STORMWATER STRUCTURES AND PIPES	BEFORE AND AFTER MAJOR PRECIPITATION EVENTS	REMOVE DEBRIS FROM STRUCTURES REGULARLY AND FROM PIPES WHEN	REPAIR DAMAGED PIPES AND STRUCTURES AS NEEDED.
SUBSURFACE STORAGE BEDS	DURING INSTALLATION AND IF SIGNS OF CLOGGING OCCUR	ENSURE PIPES AND STRUCTURES CONVEYING WATER TO BEDS ARE CLEAR TO PREVENT CLOGGING.	CLOGGED SUBSURFACE STORAGE BEDS MAY NEED TO BE REPLACED OR EQUIPPED WITH AN UNDERDRAIN IN THE CASE OF FAILURE.

NOTE: UNDER NO CIRCUMSTANCES SHALL SEDIMENT OR WASTE REMOVED FROM THE SYSTEMS BE DISPOSED OF ONSITE. ALL SEDIMENT AND/OR WASTE SHALL BE REMOVED OFF-SITE AND IN A LEGAL MANNER.

TEMPORARY STABILIZATION NOTES

1. EROSION CONTROL BLANKET SHALL BE INSTALLED WHERE INDICATED ON THE PLANS.
2. WEED-FREE HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE OR PER PLANTING SPECIFICATION. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN. HAY OR MULCH IS NOT A SUBSTITUTION FOR ECB WHERE INDICATED ON PLANS.
3. TEMPORARY SEEDING SHALL CONSIST OF OATS (AVERE SATIVA) IN SPRING AND/OR SUMMER, AND WINTER WHEAT IN FALL AND/OR WINTER. SEED MIXED SHALL CONTAIN A MINIMUM OF 85% LIVE SEED. APPLICATION RATE IS TO BE 30 LBS. PER ACRE OR 10 LBS. PER 1000 S.F.. TEMPORARY SEEDING SHALL BE APPLIED TO THOSE AREAS THAT ARE A POTENTIAL EROSION RISK AND THOSE AREAS WHERE CONSTRUCTION ACTIVITIES HAVE ENDED. TEMPORARY SEEDING IS NOT A SUBSTITUTION FOR RIPARIAN BUFFER AND LANDSCAPE RESTORATION WHERE INDICATED ON PLANS.

PENNDOT FORMULA B

Seeding Rate	3 lbs. per 1,000 square feet			
Species	**% by Weight**	**Purity %**	**Minimum % Germination**	**Maximum % Weed Seed**
Kentucky Bluegrass	50	98	80	0.20
Perennial Rye	20	98	90	0.15
Red Fescue	30	98	85	0.15

SOIL AMENDMENT	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	NOTES	VEGETATIVE SPECIES	% PURE LIVE SEED	SEED APPLICATION RATE	ANCHOR MATERIAL	ANCHORING METHOD	SEEDING SEASON DATES
PERMANENT SEEDING APPLICATION RATE										
AGRICULTURAL LIME	2 TONS	240 LB.	800 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS	1. PENNDOT FORMULA B MIX (SEE NOTE 2.) 2. ERNST PARTIAL SHADED AREA ROADSIDE MIX (ERNMX-140) 3. ERNST RAIN GARDEN MIX (ERNMX-180)	MINIMUM OF 97% LIVE SEED	213 LBS. PER ACRE OR 5 LBS PER 1000 S.F.	WEED-FREE HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.		MARCH 15 THRU JUNE 1 OR AUG 1 THRU OCT 15
10-20-20 FERTILIZER	680 LB.	25 LB.	140 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS						
TEMPORARY SEEDING APPLICATION RATE										
AGRICULTURAL LIME	1 TON	40 LB.	410 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES	OATS (AVERE SATIVA) IN SPRING AND/OR SUMMER, AND WINTER WHEAT IN FALL AND/OR WINTER	MINIMUM OF 85% LIVE SEED	30 LBS. PER ACRE OR 10 LBS. PER 1000 S.F.	WEED-FREE HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.		SPRING SEEDING UP TO JUNE 15; LATE SPRING TO SUMMER SEEDING FROM JUNE 16 TO AUGUST 15; LATE SUMMER AND FALL SEEDINF FROM AUGUST 16 AND LATER
10-10-10 FERTILIZER	680 LB.	12.5 LB.	140 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES						

NOTES:
1. ADAPTED FROM PENN STATE, "EROSION CONTROL AND CONSERVATION PLANTINGS ON NONCROPLAND" FOR TEMPORARY SEEDING AND PENNDOT PUBLICATION 408/2020 FOR PERMANENT
2. THIS IS A REFINED LAWN TYPE, SOD FORMING GRASS FORMULA CONTAINING A LARGE PERCENTAGE OF KENTUCKY BLUEGRASSES WITH PERENNIAL RYEGRASS AND RED FESCUES. THIS MIXTURE IS GENERALLY USED ON NON-STEEP SURFACES WHERE A MORE HIGHLY MAINTAINED AND MOWED SURFACE, SUCH AS A LAWN, IS DESIRED. USE ONLY ON AREAS WHICH HAVE TOPSOIL.

PENNSYLVANIA ONE CALL SYSTEM, INC. DIAL 811 STOP - CALL BEFORE YOU DIG!

PA ONE CALL SERIAL NUMBER - 20202343070

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004 OR LATER.

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

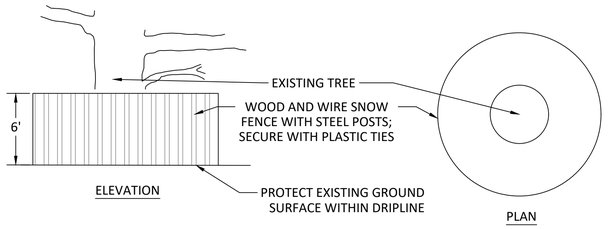
EROSION AND SEDIMENT CONTROL NOTES

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

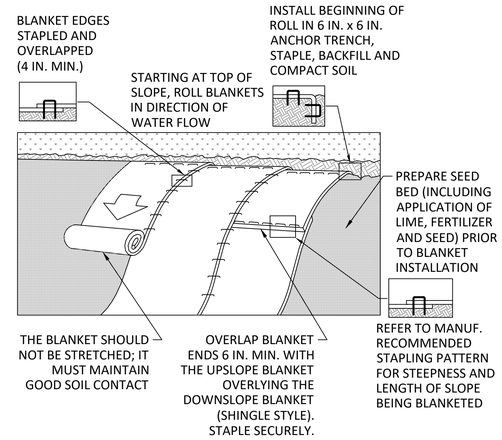
DRAWN BY: L GILL
DATE: 06/17/2022
CHECKED BY: M HENDERSON
SCALE: AS NOTED
DRAWING No. C-33
46 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027 - EROSION AND SEDIMENT CONTROL NOTES.dwg
LAST SAVED: 2022.06.15 03:58 PM PLOTTED: 2022.06.15 04:47 PM PLOTTED BY: Laura L. Gill
LAYOUT TAB: EROSION AND SEDIMENT CONTROL NOTES



NOTES:
1. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY SITE ACTIVITY.
2. ORANGE CONSTRUCTION FENCE CAN BE USED FOR TREE PROTECTION ONLY OUTSIDE LIMITS OF DISTURBANCE.

1 / C-34 TREE PROTECTION FENCE
NTS



NOTES:

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

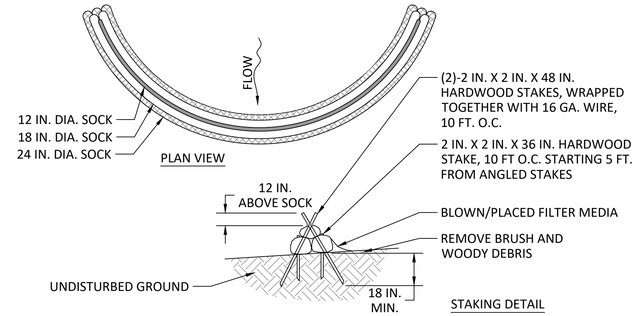
SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

2 / C-34 EROSION CONTROL BLANKET INSTALLATION
NTS

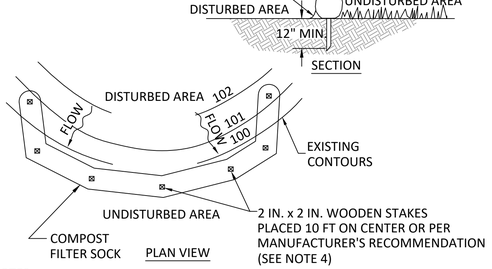


DESIGN NOTES:

1. COMPOST SOCK SEDIMENT TRAP SHALL BE SIZED TO PROVIDE 2000 CUBIC FEET OF STORAGE CAPACITY FOR EACH ACRE TRIBUTARY TO THE TRAP.
2. MINIMUM BASE WIDTH IS EQUAL TO THE HEIGHT.
3. SEDIMENT ACCUMULATION SHALL NOT EXCEED 1/3 THE TOTAL HEIGHT OF THE TRAP.
4. SOCKS SHALL BE OF LARGER DIAMETER AT THE BASE OF THE TRAP AND DECREASE IN DIAMETER FOR SUCCESSIVE LAYERS AS SHOWN ON THE PLAN VIEW.
5. ENDS OF THE TRAP SHALL BE A MINIMUM OF 1 FOOT HIGHER IN ELEVATION THAN THE MID-SECTION, WHICH SHALL BE LOCATED AT THE POINT OF DISCHARGE.

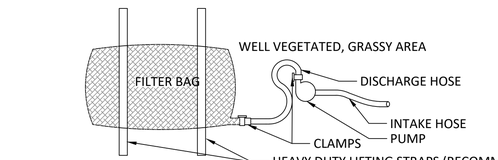
NOTES:
1. SOCK MATERIAL SHALL MEET THE STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
2. COMPOST SOCK SEDIMENT TRAPS SHALL NOT EXCEED THREE SOCKS IN HEIGHT AND SHALL BE STACKED IN PYRAMIDAL FORM AS SHOWN ABOVE. MINIMUM TRAP HEIGHT IS ONE 24" DIAMETER SOCK. ADDITIONAL STORAGE MAY BE PROVIDED BY MEANS OF AN EXCAVATED SUMP 12" DEEP EXTENDING 1 TO 3 FEET UPSLOPE OF THE SOCKS ALONG THE LOWER SIDE OF THE TRAP.
3. COMPOST SOCK SEDIMENT TRAPS SHALL PROVIDE 2,000 CUBIC FEET STORAGE CAPACITY WITH 12" FREEBOARD FOR EACH TRIBUTARY DRAINAGE ACRE. (SEE MANUFACTURER FOR ANTICIPATED SETTLEMENT.)
4. THE MAXIMUM TRIBUTARY DRAINAGE AREA IS 5.0 ACRES. SINCE COMPOST SOCKS ARE "FLOW-THROUGH," NO SPILLWAY IS REQUIRED.
5. COMPOST SOCK SEDIMENT TRAPS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 THE HEIGHT OF THE SOCKS.
6. PHOTODEGRADABLE AND BIODEGRADABLE SOCKS SHALL NOT BE USED FOR MORE THAN 1 YEAR.

3 / C-34 COMPOST SOCK SEDIMENT TRAP
TYPICAL N.T.S.



NOTES:
1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
4. FOR PAVED SURFACE APPLICATIONS, OBJECTS OF CONSIDERABLE MASS (I.E. CONCRETE BLOCKS, SAND BAGS, ETC.) SHALL BE USED IMMEDIATELY DOWNSLOPE OF COMPOST FILTER SOCKS IN LIEU OF STAKES. MAXIMUM SPACING OF STABILIZING OBJECTS SHALL BE EQUAL TO THE MANUFACTURER'S RECOMMENDATION FOR STAKE SPACING.
5. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
6. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
7. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR.
8. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

4 / C-34 COMPOST SOCK
TYPICAL N.T.S.

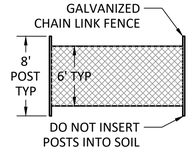


NOTES:
1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
M	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
4. **DOWNSLOPE SEDIMENT BARRIER IS REQUIRED. COMPOST FILTER SOCK SHALL BE INSTALLED AROUND BAGS.**
5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

5 / C-34 PUMPED WATER FILTER BAG
TYPICAL N.T.S.



6 / C-34 CONSTRUCTION FENCE
NTS

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080430 PENNSYLVANIA
06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EROSION & SEDIMENT CONTROL DETAILS – SHEET 1

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY: L GILL
DATE: 06/17/2022
CHECKED BY: M HENDERSON
SCALE: AS NOTED
DRAWING No.: C–34
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LAST SAVED: 2022.06.09 03:25 PM PLOTTED: 2022.06.15 04:47 PM PLOTTED BY: Laura L. Gill
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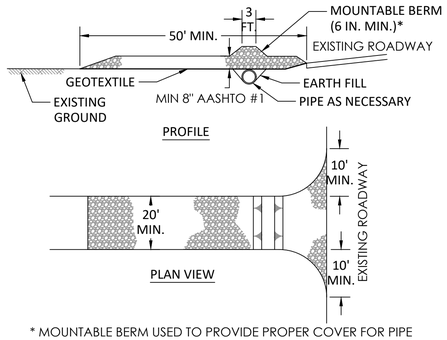
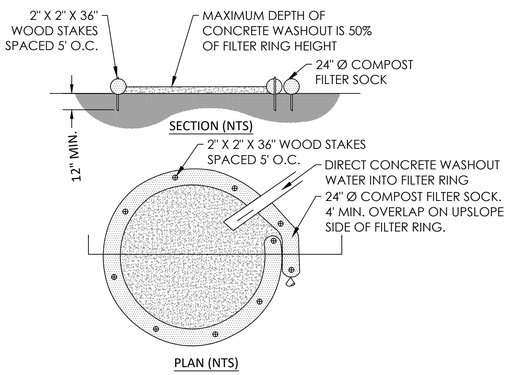


* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
2. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
3. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
4. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.
5. PUBLIC STREET SWEEPING WITH A VACUUM SWEEPER AND ROLLING OF DIRT AND GRAVEL ROADS SHALL OCCUR AT THE END OF EACH WORK DAY (OR MORE FREQUENTLY AS NEEDED); MANUAL CLEANING OF TIRES PRIOR TO SITE EGRESS.

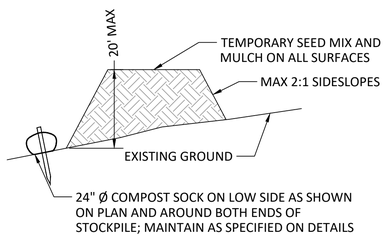
1 / C-35 — ROCK CONSTRCUTION ENTRANCE WITH STREET SWEEPING — NTS



NOTES:

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" Ø FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" Ø SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.

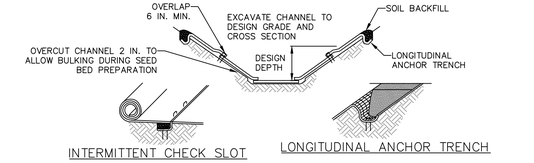
2 / C-35 — CONCRETE WASHOUT — NTS

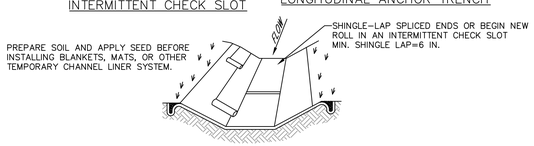


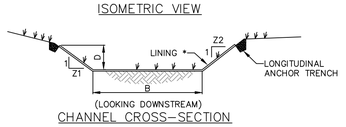
MAINTENANCE NOTES:

1. TEMPORARILY STOCKPILE TOPSOIL OR EXCAVATED SOIL MATERIAL AS NEEDED AT LOCATIONS SHOWN FOR EACH PHASE OF CONSTRUCTION. EXCESS EXCAVATED MATERIAL SHALL BE PERMANENTLY REMOVED FROM THE SITE.
2. HEIGHT AND SIDESLOPES SHALL NOT EXCEED MAXIMUM VALUES SHOWN ON DETAIL.
3. INSTALL COMPOST SOCK PRIOR TO STOCKPILING OF MATERIAL. REPLACE ANY COMPOST SOCK REMOVED FOR VEHICULAR ACCESS AFTER EACH WORK DAY.
4. APPLY SEED AND MULCH WHEN PILE IS NOT SUBJECT TO VEHICULAR ACCESS FOR SEVEN DAYS OR MORE.

3 / C-35 — TEMPORARY SOIL STOCKPILE — TYPICAL — NTS







* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

CHANNEL NO.	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING *
1	2	0.5	6	4	4	NAG C125BN
2	1	0.5	4	3	3	NAG C125BN

NOTES:

ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION.
SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

4 / C-35 — VEGETATED CHANNEL — TYPICAL — NTS

CONSTRUCTION DOCUMENTS

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123
melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

EROSION & SEDIMENT CONTROL DETAILS – SHEET 2

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-35
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

48 OF 144

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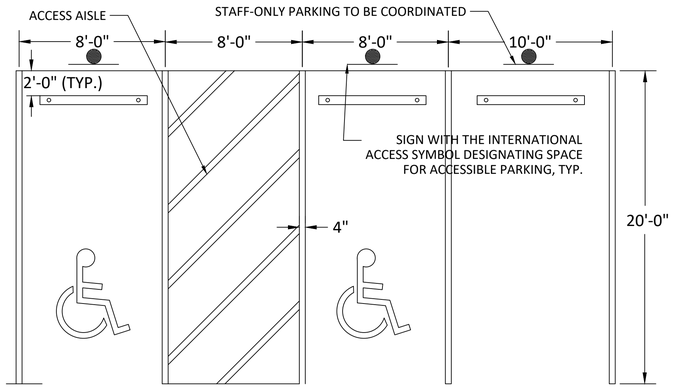
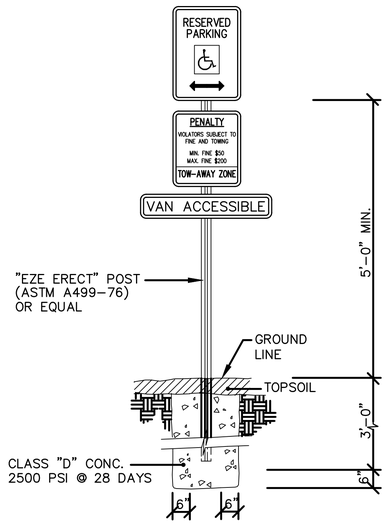
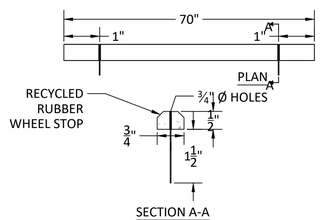


NOTES:
1. ALL SIGNS, SYMBOLS AND MARKINGS SHALL MEET ALL APPLICABLE REGULATIONS.
2. SEE SITE PLANS FOR PARKING LANE LAYOUT AND ORIENTATION AT EACH SITE.

1 / C-36 PARKING AND ADA ACCESS STRIPING - GENERAL
NTS

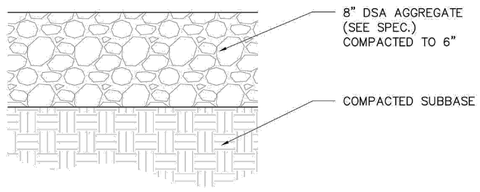


2 / C-36 HANDICAP PARKING SIGN
1"=1'-0"

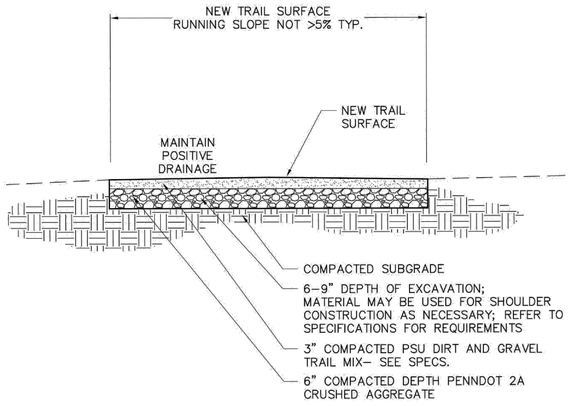


NOTE:
ANCHOR PARKING BLOCK AT EACH END WITH A ½" x 24", No. 4 REINFORCING BAR

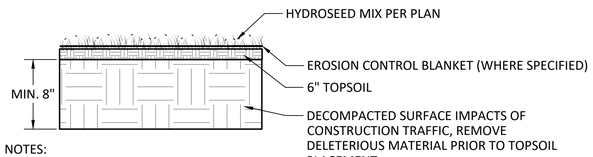
3 / C-36 WHEEL STOP DETAIL
1:1



4 / C-36 DRIVING SURFACE AGGREGATE
N.T.S.



5 / C-36 TYPICAL TRAIL SURFACE AGGREGATE
N.T.S.



NOTES:
(SEE SHEET C2.3 FOR CONSTRUCTION SEQUENCE)
1. PREPARE THE SITE FOR SEEDING BY REMOVING WEEDS, INVASIVE SPECIES AND OTHER UNDESIRED VEGETATION.
2. RESTORE AND DECOMPACT SOILS TO BE SEEDED. ROTOTILL, OR RIP THE SUBGRADE, REMOVE ROCKS.
3. REPLACE STOCKPILES TOPSOIL. CONTRACTOR TO SUPPLEMENT WITH IMPORTED TOPSOIL ONLY AS NECESSARY TO ACHIEVE CONSISTENT DEPTH PER PLAN.
4. SEED MIX SHALL BE PER PLAN. SEEDING RATE SHOULD BE 20 LB PER ACRE, OR 1/2 LB PER 1,000 SQ FT.
5. RAKE SEED LIGHTLY INTO TOP 1/8 INCH OF SOIL, ROLL LIGHTLY, AND WATER WITH FINE SPRAY.
6. APPLY EROSION CONTROL BLANKET PER PLAN.

6 / C-36 LANDSCAPE RESTORATION
NTS

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RECORD REVISIONS

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SITE DETAILS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
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DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-36
CHECKED BY: M HENDERSON	SCALE: AS NOTED	

49 OF 144

CONSTRUCTION DOCUMENTS

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027-SITE DETAILS.dwg
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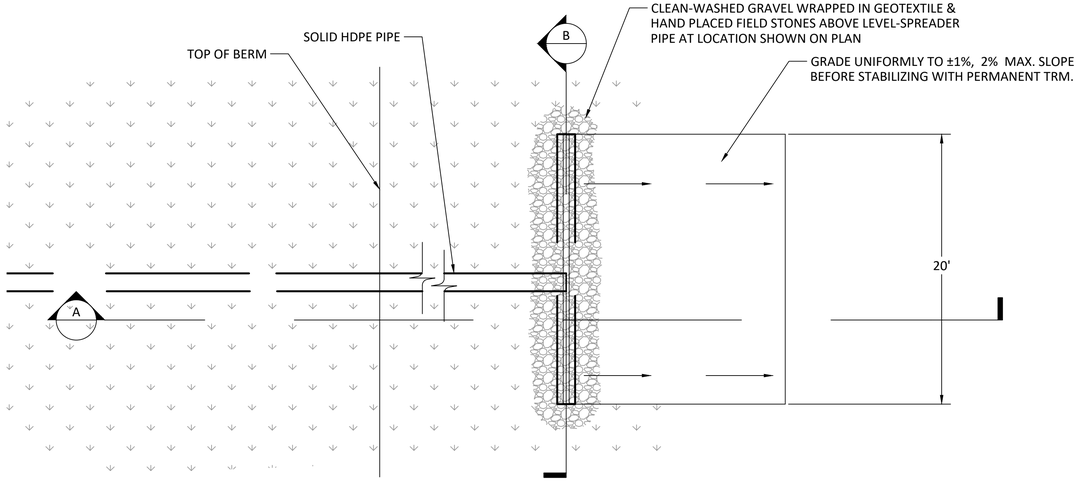
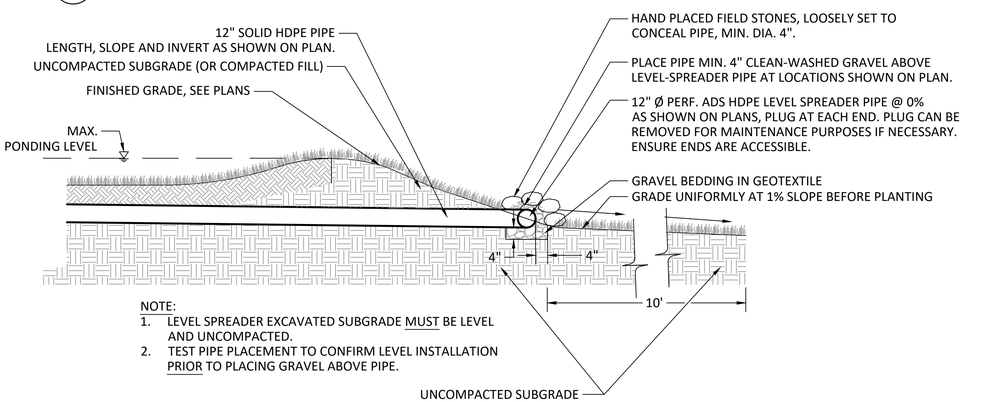


1 C-37 **LEVEL SPREADER DETAIL**

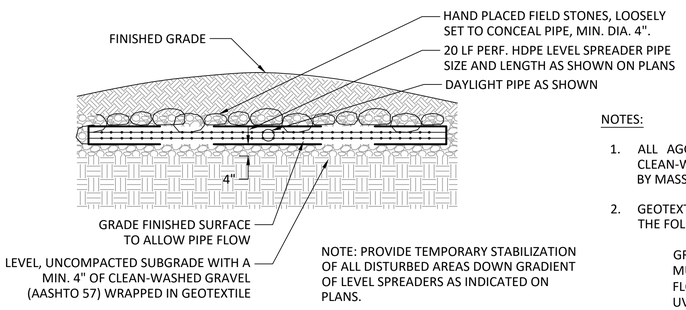
1/2"=1'-0"

NOTE: PROVIDE TEMPORARY STABILIZATION OF ALL DISTURBED AREAS DOWN GRADIENT OF LEVEL SPREADERS AS INDICATED ON PLANS.



NOTE:
1. LEVEL SPREADER EXCAVATED SUBGRADE MUST BE LEVEL AND UNCOMPACTED.
2. TEST PIPE PLACEMENT TO CONFIRM LEVEL INSTALLATION PRIOR TO PLACING GRAVEL ABOVE PIPE.

A C-37 **LEVEL SPREADER PROFILE A-A**



NOTE: PROVIDE TEMPORARY STABILIZATION OF ALL DISTURBED AREAS DOWN GRADIENT OF LEVEL SPREADERS AS INDICATED ON PLANS.

B C-37 **LEVEL SPREADER PROFILE B-B**

1/2"=1'-0"

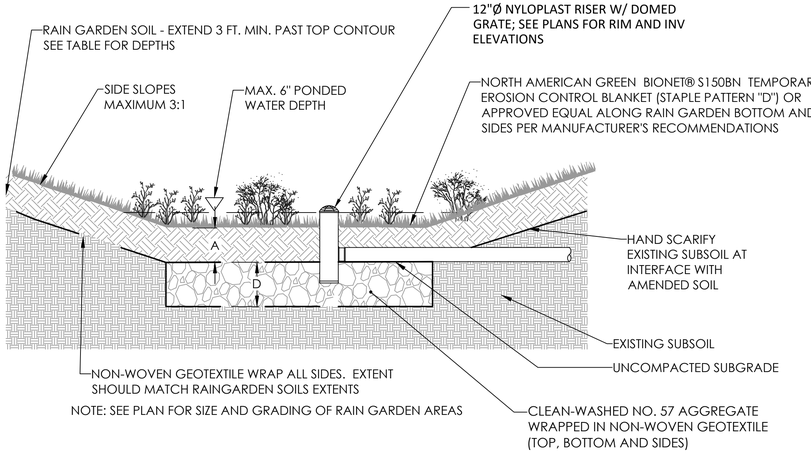
NOTES:

1. ALL AGGREGATES WITHIN THE STONE STORAGE BED SHALL BE CLEAN-WASHED, DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOSS TEST.

2. GEOTEXTILE SHALL CONSIST OF POLYPROPYLENE FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

   GRAB TENSILE STRENGTH (ASTM-D4632) > OR = 120 LBS.
   MULLEN BURST STRENGTH (ASTM-D3786) > OR = 225 LBS.
   FLOW RATE (ASTM-D4491) > OR = 95 GAL./MIN./FT²
   UV RESISTANCE AFTER 500 HRS. (ASTM-D4355) > OR = 70%
   HEAT-SET OR HEAT CALENDARED FABRICS ARE NOT PERMITTED

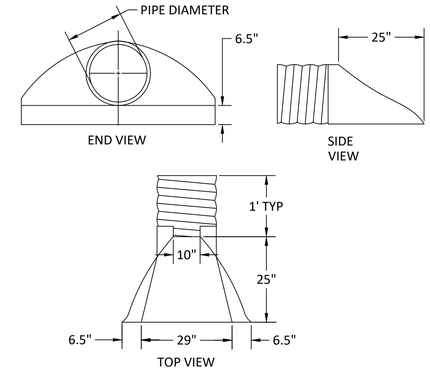
SITE	LENGTH (FT)	DOWNSTREAM DISTANCE TO DRAINAGE COURSE (FT.)	DOWNSTREAM SLOPE (%)	DRAINAGE AREA (AC.)
LOOP C	20	308	4.3%	0.27
OGTC	20	530	5.7%	0.16
DADDY ALLEN	20	110	7.2%	0.37



SITE	RAIN GARDEN STONE DEPTH, D (IN.)	RAIN GARDEN SOIL DEPTH, A (IN.)
OGTC	24	24
DADDY ALLEN	24	24
SHEHAQUA	0	12

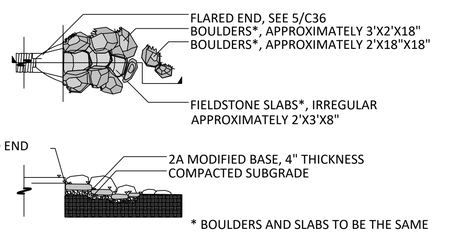
2 C-37 **RAIN GARDEN**

NTS



5 C-37 **HDPE FLARED END SECTION**

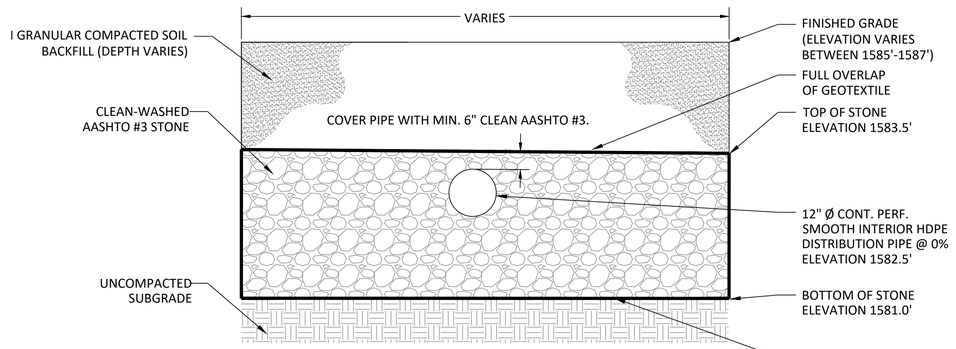
NTS



* BOULDERS AND SLABS TO BE THE SAME STONE TYPE, TO BE APPROVED BY ENGINEER

6 C-37 **SPLASH BLOCK**

FLARED END NTS



NOTES:
1. HDPE DISTRIBUTION PIPE MUST MEET AASHTO M252, TYPE S OR AASHTO M 294, TYPE S
2. ALL AGGREGATES WITHIN THE STONE STORAGE BED SHALL BE CLEAN-WASHED, DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOSS TEST.
3. GEOTEXTILE SHALL CONSIST OF POLYPROPYLENE FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

   GRAB TENSILE STRENGTH (ASTM-D4632) > OR = 120 LBS.
   MULLEN BURST STRENGTH (ASTM-D3786) > OR = 225 LBS.
   FLOW RATE (ASTM-D4491) > OR = 95 GAL./MIN./FT²
   UV RESISTANCE AFTER 500 HRS. (ASTM-D4355) > OR = 70%
   HEAT-SET OR HEAT CALENDARED FABRICS ARE NOT PERMITTED

SITE	INFILTRATION BED STONE DEPTH, D (IN.)
LOOP C	30

3 C-37 **INFILTRATION BED - LOOP C**

NTS

CONSTRUCTION DOCUMENTS

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

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HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

STORMWATER DETAILS – SHEET 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

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DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-37
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027-STORM DETAILS.dwg
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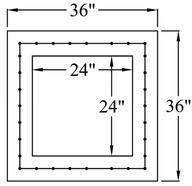
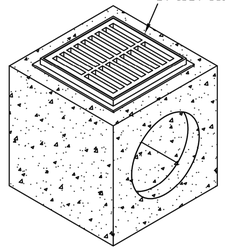
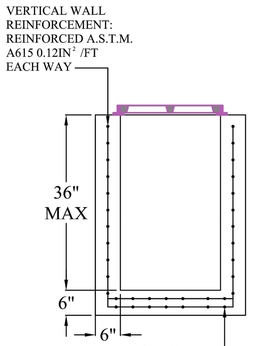
LAYOUT TAB: STORMWATER DETAILS – SHEET 1



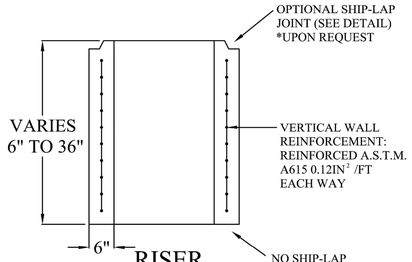
PLAN





BASE SECTION

BASE SLAB REINFORCEMENT: TWO LAYERS OF REINFORCING A.S.T.M A615 O.20IN² /FT. EACH WAY / EACH LAYER



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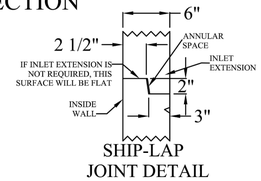
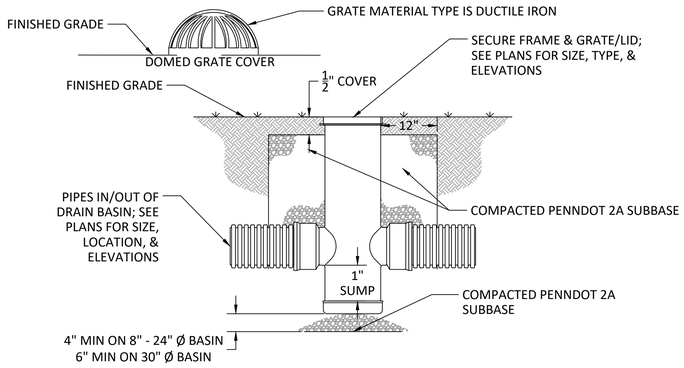


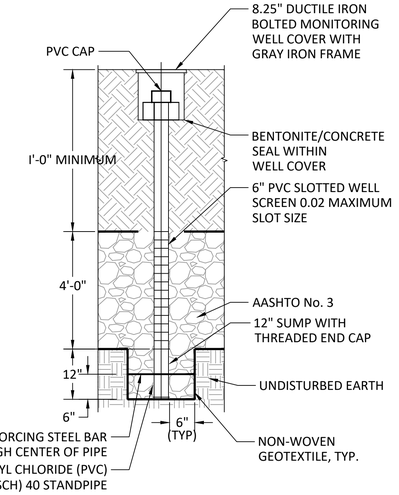
SHIP-LAP JOINT DETAIL

SPECIFICATIONS:

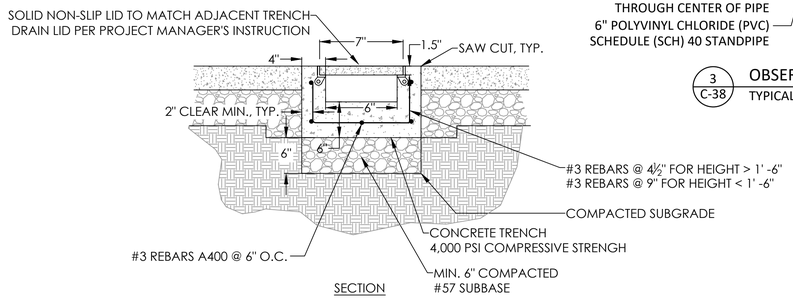
MINIMUM CONCRETE STRENGTH 4000 PSI @ 28 DAYS (PENNDOT CLASS AA) MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408 SECTION 605 & 714
STEEL REINFORCEMENT A615 GRADE 60 HORIZONTAL AND VERTICAL



2 / C-38 NYLOPLAST DOMED RISER/DRAIN BASIN
NTS



3 / C-38 OBSERVATION WELL
TYPICAL NTS



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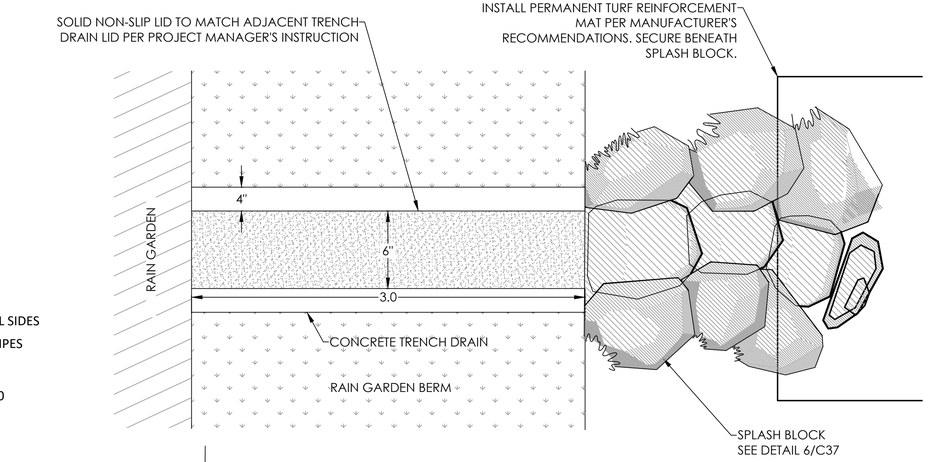
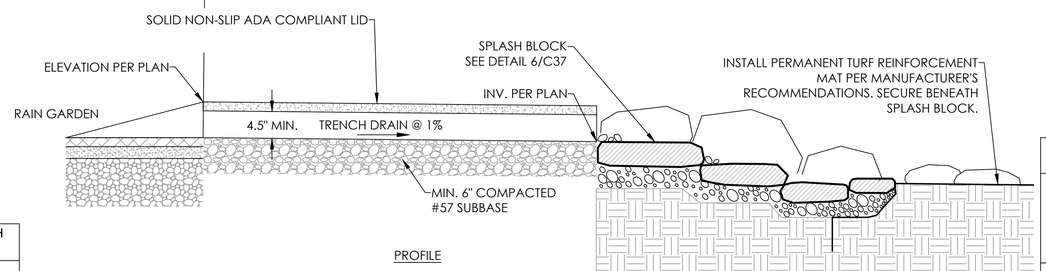
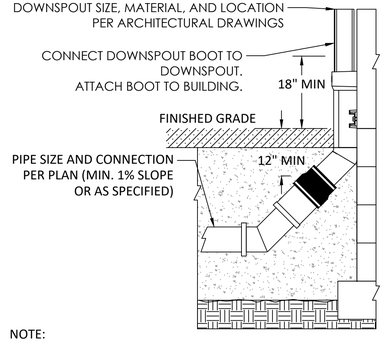


PLAN



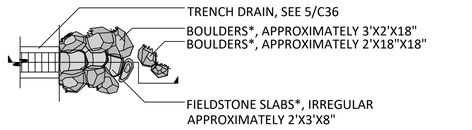
PROFILE

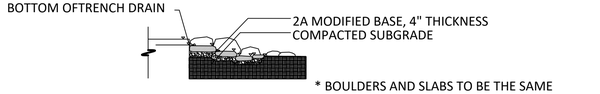
5 / C-38 TRENCH DRAIN RAIN GARDEN DISCHARGE
NTS



NOTE:
1. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD. THIS IS A TYPICAL DETAIL ONLY, LENGTHS OF PIPE TO BE DETERMINED BY CONTRACTOR.
2. ALL DOWNSPOUT BOOTS TO INCLUDE CLEANOUT WITH NEOPRENE GASKET AND TAMPER-PROOF STAINLESS HARDWARE.

7 / C-38 DOWNSPOUT AND BOOT DETAIL
NTS

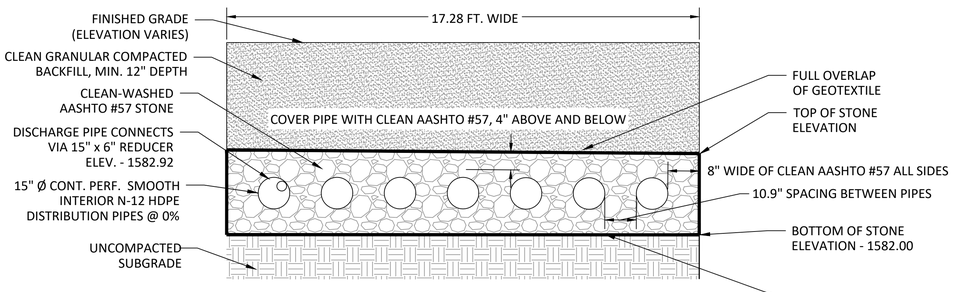




* BOULDERS AND SLABS TO BE THE SAME STONE TYPE, TO BE APPROVED BY ENGINEER

6 / C-38 SPLASH BLOCK
TRENCH DRAIN NTS

1 / C-38 24" x 24" INLET BOX AND RISER
NTS



NOTES:
1. HDPE DISTRIBUTION PIPE MUST MEET AASHTO M252, TYPE S OR AASHTO M 294, TYPE S
2. ALL AGGREGATES WITHIN THE STONE STORAGE BED SHALL BE CLEAN-WASHED, DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOSS TEST.
3. CHAMBERS WITH PIPE CONNECTIONS SHALL INCLUDE A MINIMUM OF 3 CLEANOUTS ACCESSIBLE AT SURFACE WITH 6" INSERT-A-TEE CONNECTIONS TO PIPE CROWN.
4. SEAL ALL PIPE CHAMBERS WITH SOLID, WATER TIGHT CAPS.
5. DISCHARGE PIPE SHALL CONNECTED VIA A REDUCER OF THE APPROPRIATE SIZE TO A PIPE NOT CONNECTED TO INCOMING STORM PIPES.
6. ONE INSPECTION PORT SHALL BE INCLUDED WITHIN THE STONE.
7. GEOTEXTILE SHALL CONSIST OF POLYPROPYLENE FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GRAB TENSILE STRENGTH (ASTM-D4632) > OR = 120 LBS.
MULLEN BURST STRENGTH (ASTM-D3786) > OR = 225 LBS.
FLOW RATE (ASTM-D4491) > OR = 95 GAL./MIN./FT²
UV RESISTANCE AFTER 500 HRS. (ASTM-D4355) > OR = 70%
HEAT-SET OR HEAT CALENDARED FABRICS ARE NOT PERMITTED

SITE	INFILTRATION BED STONE DEPTH, D (IN.)	INFILTRATION BED STONE WIDTH, (FT.)	INFILTRATION BED STONE LENGTH, (FT.)	PIPE LENGTH (FT.)
SHEHAQUA	22	17.28	41.33	40

4 / C-38 INFILTRATION BED - SHEHAQUA
NTS

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123
melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420
06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

STORMWATER DETAILS – SHEET 2

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C–38
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

51 OF 144

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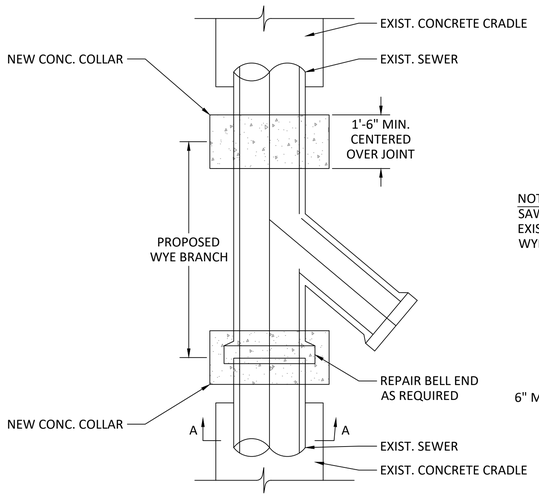
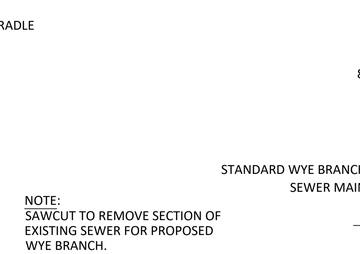
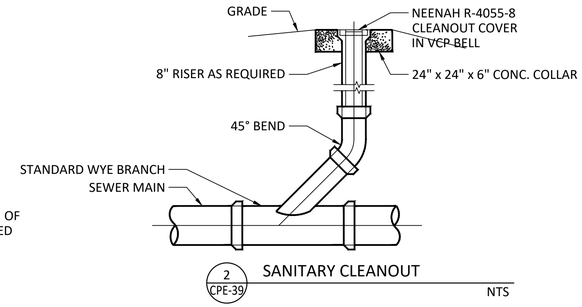


1 CPE-39 SEWER CONNECTION NTS

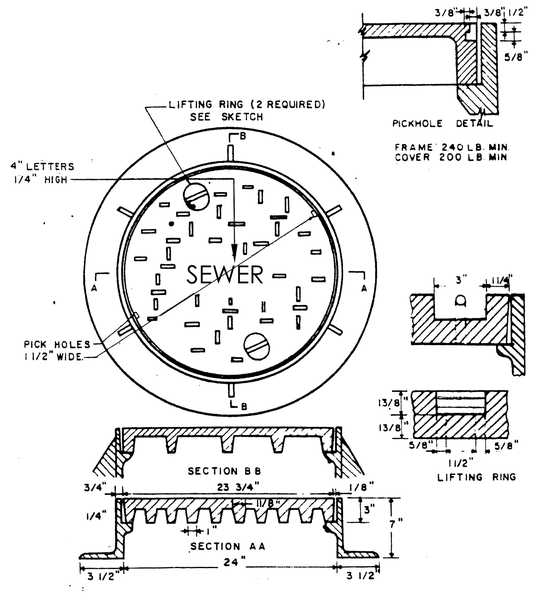
NOTE:
SAWCUT TO REMOVE SECTION OF EXISTING SEWER FOR PROPOSED WYE BRANCH.

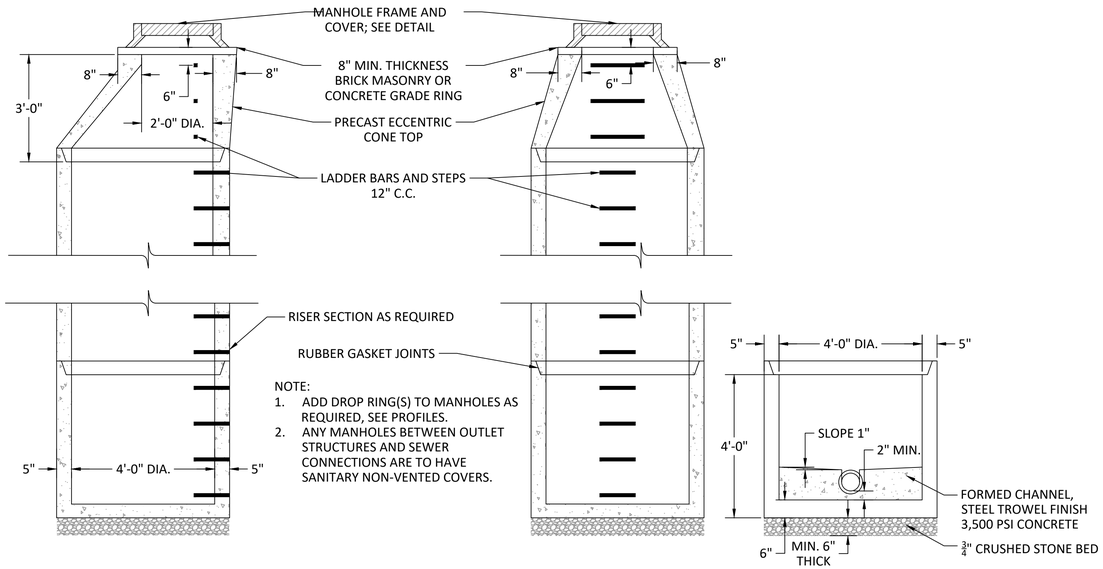


SECTION A-A



2 CPE-39 SANITARY CLEANOUT NTS

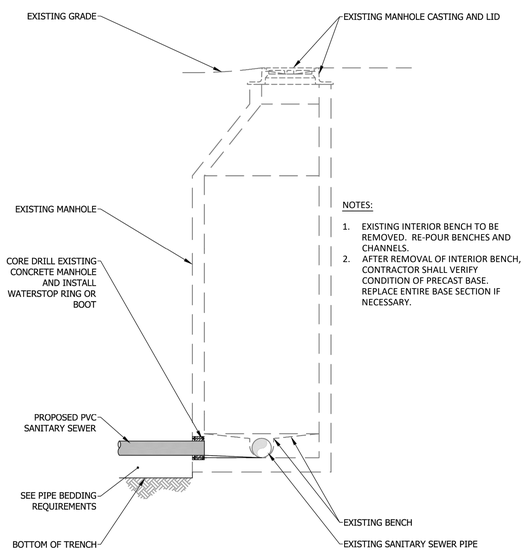




NOTE:
1. ADD DROP RING(S) TO MANHOLES AS REQUIRED, SEE PROFILES.
2. ANY MANHOLES BETWEEN OUTLET STRUCTURES AND SEWER CONNECTIONS ARE TO HAVE SANITARY NON-VENTED COVERS.

4 CPE-39 STANDARD MANHOLE
TYPICAL N.T.S.

3 CPE-39 MANHOLE FRAME AND COVER
24" DIA. MANHOLE FLAT LID WITH "STORM" LETTERING NTS



NOTES:
1. EXISTING INTERIOR BENCH TO BE REMOVED. RE-POUR BENCHES AND CHANNELS.
2. AFTER REMOVAL OF INTERIOR BENCH, CONTRACTOR SHALL VERIFY CONDITION OF PRECAST BASE. REPLACE ENTIRE BASE SECTION IF NECESSARY.

5 CPE-39 MANHOLE PIPE CONNECTION WITH CORE DRILL NTS

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080430

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY DETAILS – SHEET 1

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DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	CPE-39
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

52 OF 144

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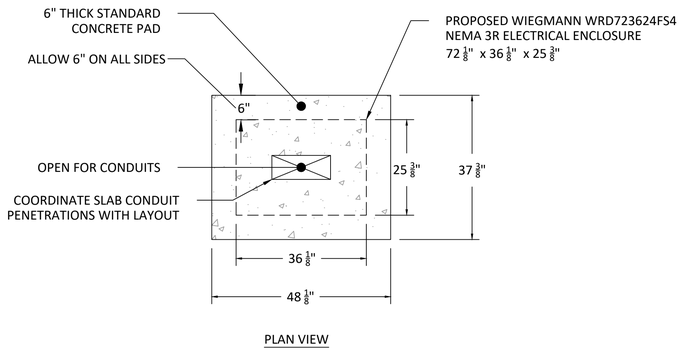
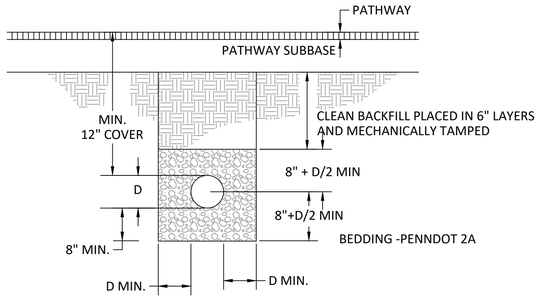
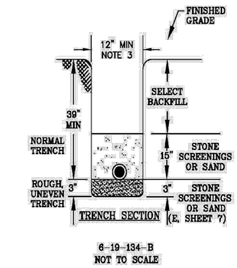


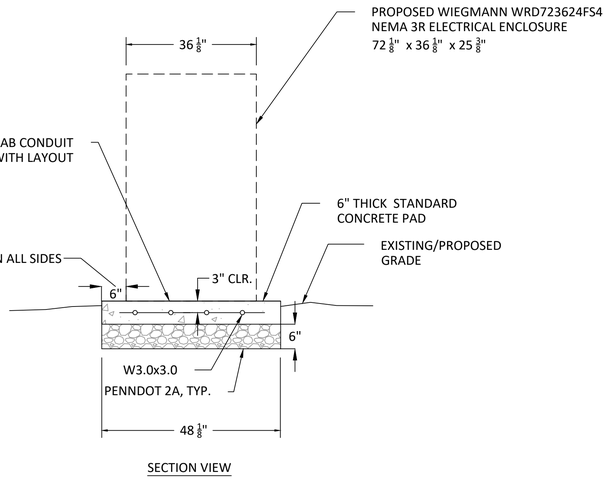
1 CPE-40 ELECTRICAL CABINET AND CONCRETE PAD NTS



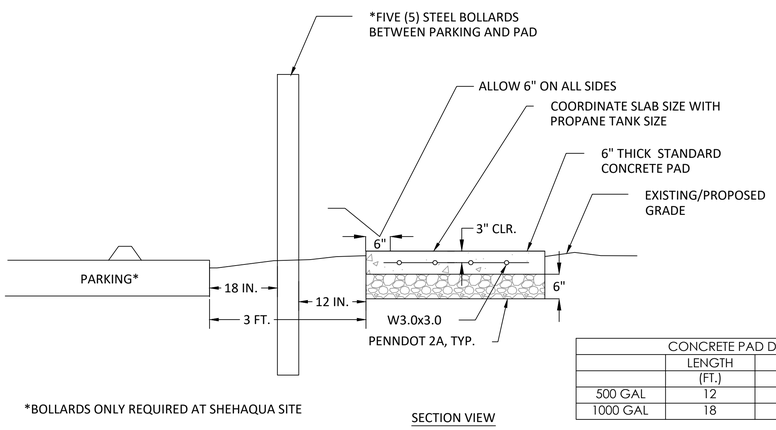
2 CPE-40 TYPICAL BEDDING IN PAVED AREAS NTS



4 CPE-40 PPL TRENCH DETAIL NTS

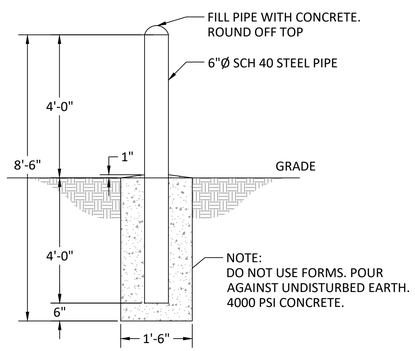


3 CPE-40 TYPICAL PIPE BEDDING UNDER UNPAVED AREAS NTS



CONCRETE PAD DIMENSIONS			
	LENGTH (FT.)	WIDTH (FT.)	THICKNESS (IN.)
500 GAL	12	5	6
1000 GAL	18	5	6

5 CPE-40 PROPANE TANK CONCRETE PAD NTS



6 CPE-40 TYPICAL BOLLARD NTS

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MARC B. HENDERSON ENGINEER No. 080420

06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

UTILITY DETAILS – SHEET 2

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	CPE-40
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

53 OF 144

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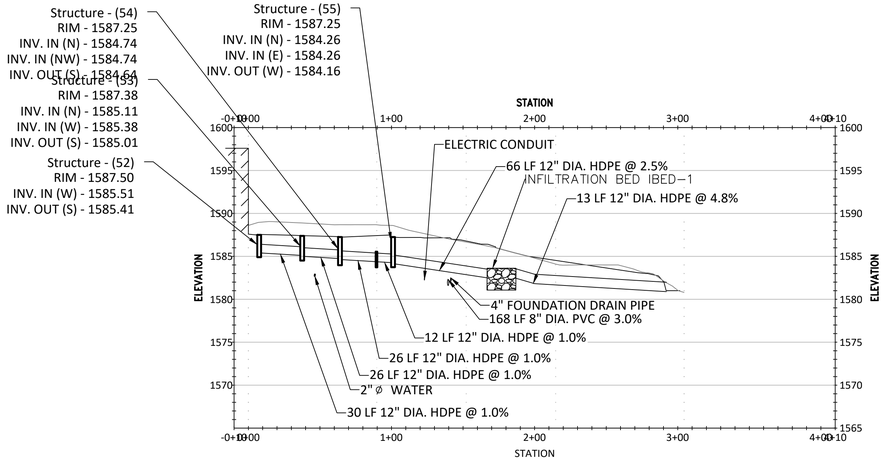
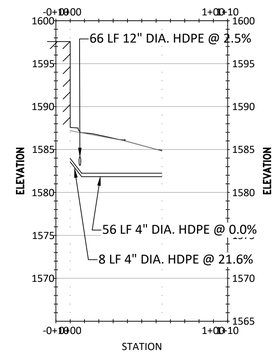


-- / C-41 PROFILE VIEW
CAMP LOOP C - STORMWATER LINE 1"=50' H, 1"=10' V



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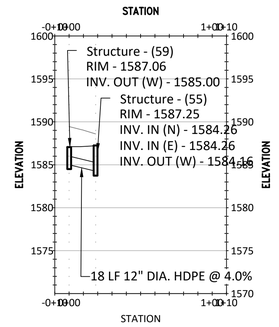
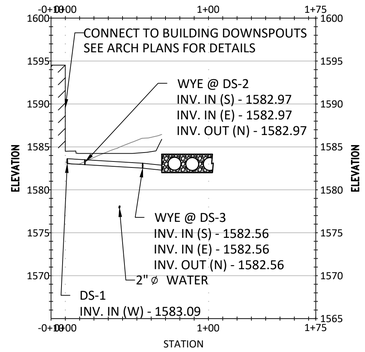
CAMP LOOP C - STORMWATER LINE 1"=50' H, 1"=10' V



-- / C-41 PROFILE VIEW
CAMP LOOP C - FOUNDATION DRAIN 1"=50' H, 1"=10' V



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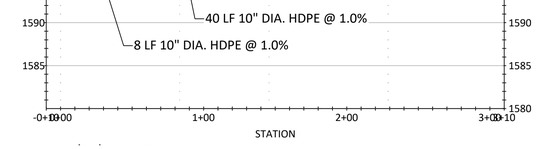
CAMP SHEHAQUA - STORM 1 1"=50' H, 1"=10' V



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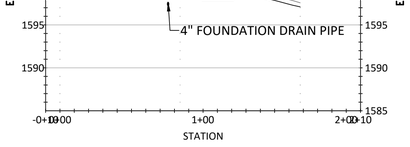
CAMP OGTC - STORMWATER LINE 1"=50' H, 1"=10' V



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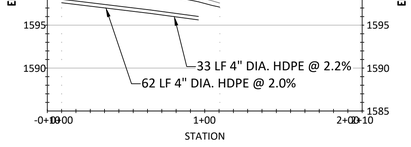
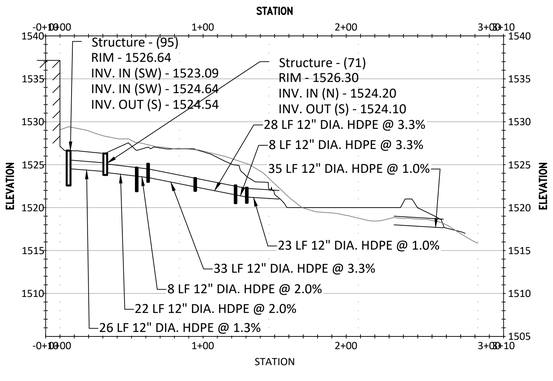
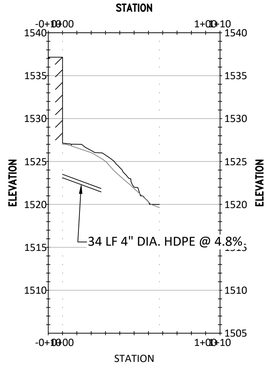
CAMP OGTC - STORMWATER LINE 1"=50' H, 1"=10' V



-- / C-41 PROFILE VIEW
CAMP OGTC - FOUNDATION DRAIN 1"=50' H, 1"=10' V



-- / C-41 PROFILE VIEW
CAMP DADDY ALLEN - STORMWATER LINE 1"=50' H, 1"=10' V



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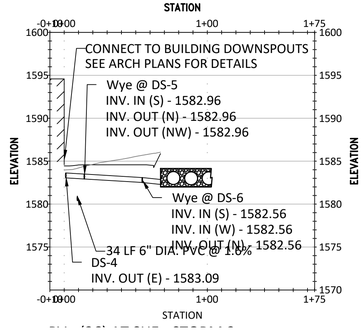
CAMP DADDY ALLEN - FOUNDATION DRAIN 1"=50' H, 1"=10' V



-- / C-41 PROFILE VIEW
CAMP SHEHAQUA - STORM 2 1"=50' H, 1"=10' V

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MARC B. HENDERSON
ENGINEER
No. 080420
06/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

STORMWATER PROFILES

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
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CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
L GILL	06/17/2022	C-41
CHECKED BY	SCALE	
M HENDERSON	AS NOTED	

54 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Sheet Files\20027-STORM PROFILES.dwg
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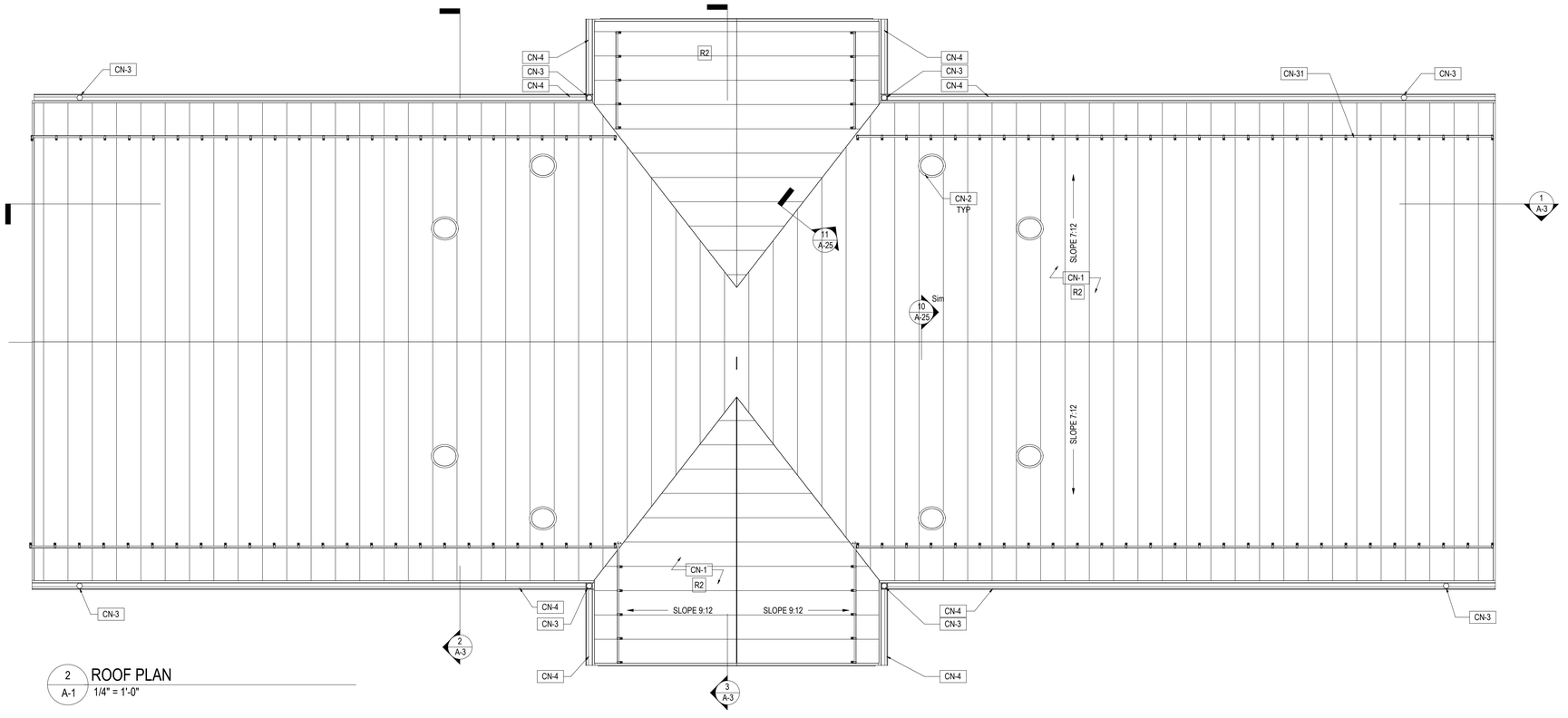
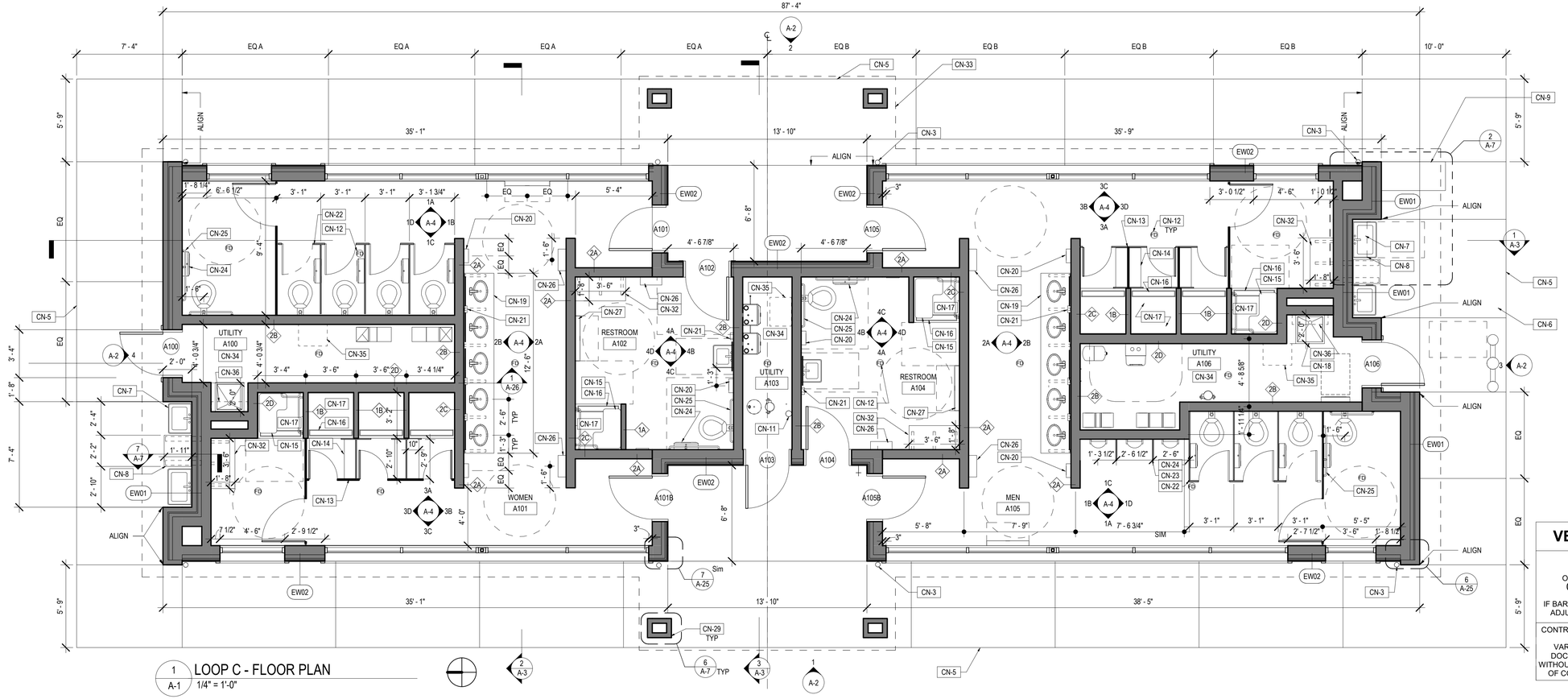


2 A-1 ROOF PLAN
1/4" = 1'-0"



1 A-1 LOOP C - FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES:

1. HVAC EQUIPMENT IS PROVIDED BY THE .2 CONTRACT.
2. PLUMBING FIXTURES ARE PROVIDED BY THE .3 CONTRACT.
3. LIGHT FIXTURES ARE PROVIDED BY THE .4 CONTRACT.
4. ALL EXPOSED SURFACES OF GFCMU BLOCKS IN OCCUPIED SPACES SHALL BE GROUND AND FINISHED.

CONSTRUCTION NOTES (CN)

CN-1	STANDING SEAM METAL ROOF (R2)
CN-2	TUBULAR SKYLIGHT
CN-3	METAL DOWNSPOUT
CN-4	METAL GUTTER
CN-5	CONCRETE SIDEWALK. SEE CIVIL DWGS.
CN-6	WATER FOUNTAIN. SEE MEP DWGS.
CN-7	DISHWASHING SINK
CN-8	EXTERIOR COUNTER
CN-9	STONE VENEER BENCH WITH CAST STONE SEAT
CN-10	NOT USED
CN-11	WALL MOUNTED FIRE EXTINGUISHER
CN-12	FLOOR DRAIN. SEE MEP DWGS.
CN-13	CHANGING AREA PARTITION
CN-14	BENCH BY PARTITION MANUFACTURER, HOOK (TYPE I) MOUNTED ABOVE
CN-15	ADA FOLDING SHOWER SEAT
CN-16	TRENCH DRAIN. SEE MEP DWGS.
CN-17	EPOXY FLOOR. SLOPE TO DRAIN.
CN-18	MOP SINK
CN-19	QUARTZ COUNTERTOP
CN-20	ELECTRIC HAND DRYER
CN-21	SOAP DISPENSER
CN-22	TOILET PARTITION
CN-23	URINAL SCREEN
CN-24	TOILET PAPER DISPENSER
CN-25	ADA GRAB BARS
CN-26	WASTE RECEPTACLE
CN-27	BABY CHANGING STATION
CN-28	ASPHALT SHINGLE ROOF (R1)
CN-29	STONE VENEER COLUMN
CN-30	WOOD COLUMNS WITH STONE VENEER BASE
CN-31	SNOW GUARD
CN-32	HDPE WALL MOUNTED BENCH
CN-33	ROOFLINE ABOVE
CN-34	SEE MEP DRAWINGS FOR EQUIPMENT IN UTILITY ROOM
CN-35	CLEAR FLOOR SPACE FOR LADDER
CN-36	UTILITY SHELF

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA-016180-X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
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C–114–0006 PHASE 1

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LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C – PLANS

VERIFY SCALE

BAR IS ONE (1) INCH LONG
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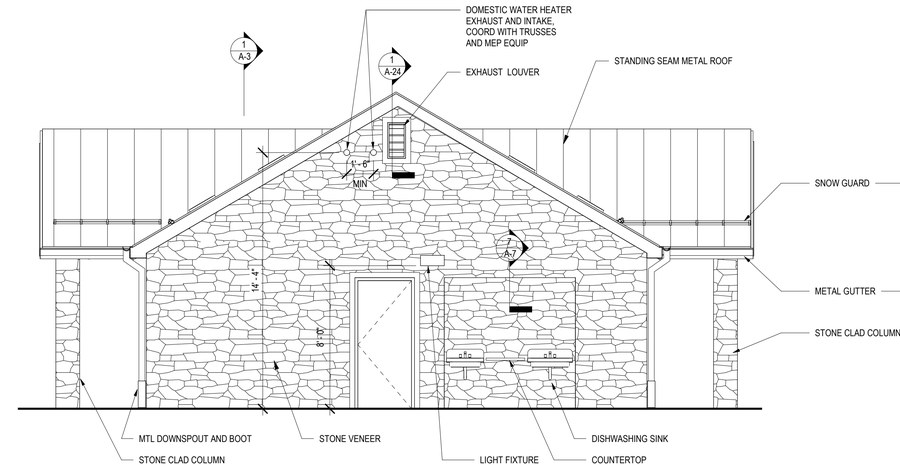
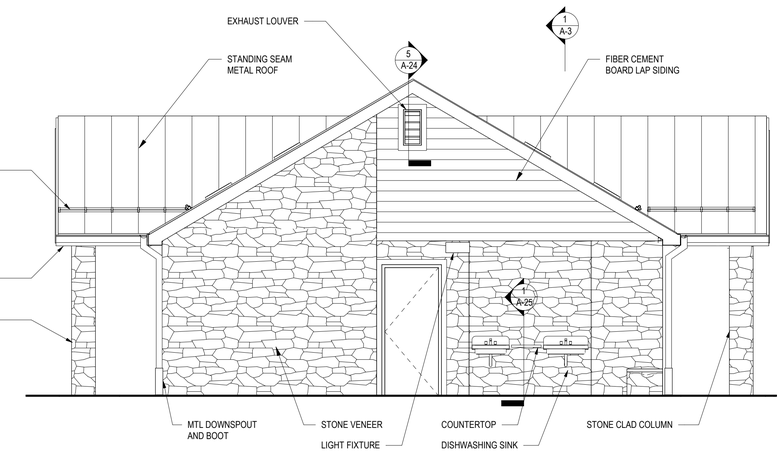
DRAWN BY M STRENSKI	DATE 06/17/2022	DRAWING No. A–1
CHECKED BY T WOODWARD	SCALE AS NOTED	

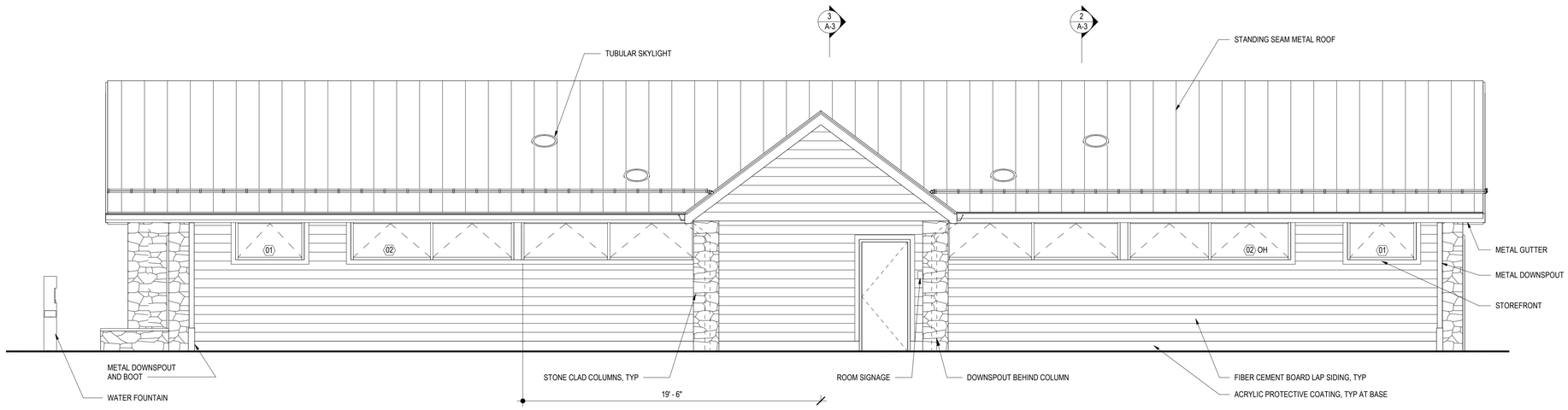
55 OF 144



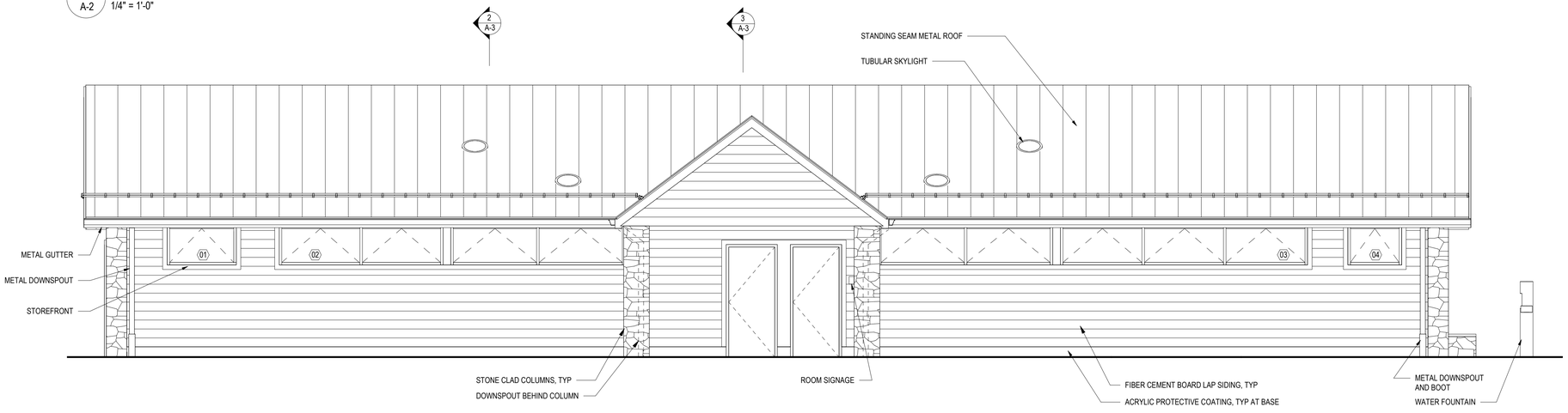
4 A-2 SOUTH ELEVATION
1/4" = 1'-0"



3 A-2 NORTH ELEVATION
1/4" = 1'-0"



2 A-2 WEST ELEVATION
1/4" = 1'-0"



1 A-2 EAST ELEVATION
1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA THOMAS WOODWARD No. RA016869X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

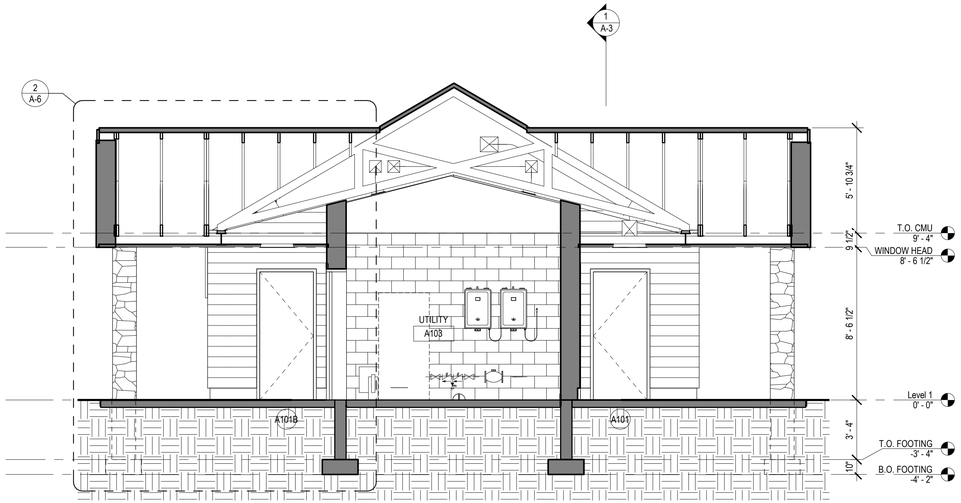
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

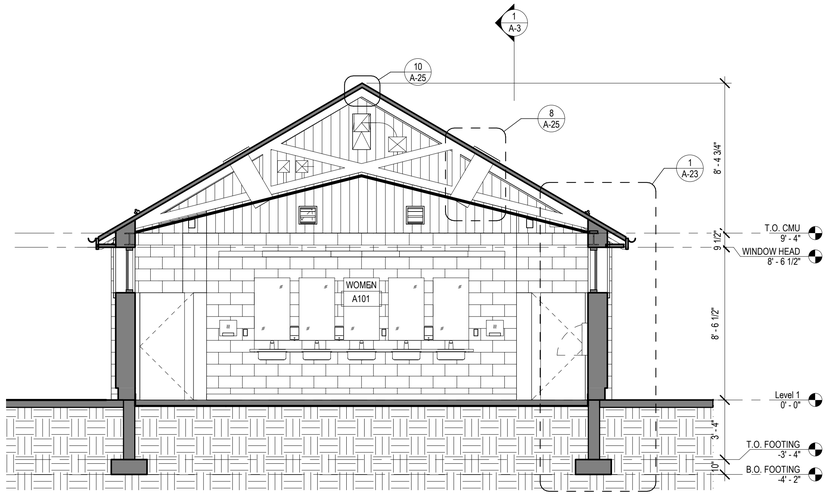
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C - EXTERIOR ELEVATIONS

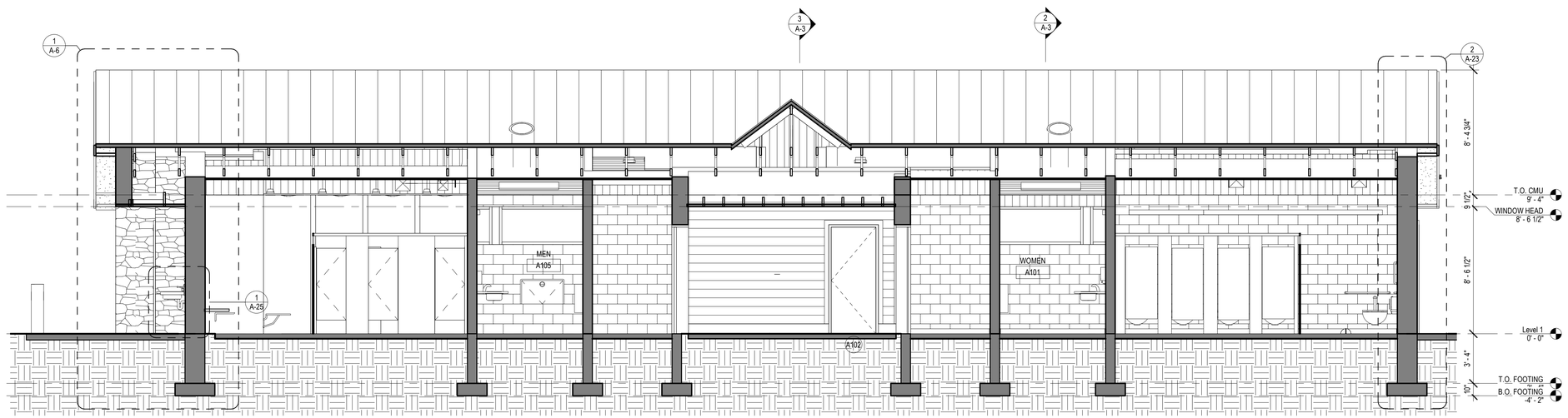
DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A-2
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	



3 A-3 CROSS SECTION 2
1/4" = 1'-0"



2 A-3 CROSS SECTION 1
1/4" = 1'-0"



1 A-3 LONGITUDINAL SECTION
1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA THOMAS WOODWARD No. RA078163

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1

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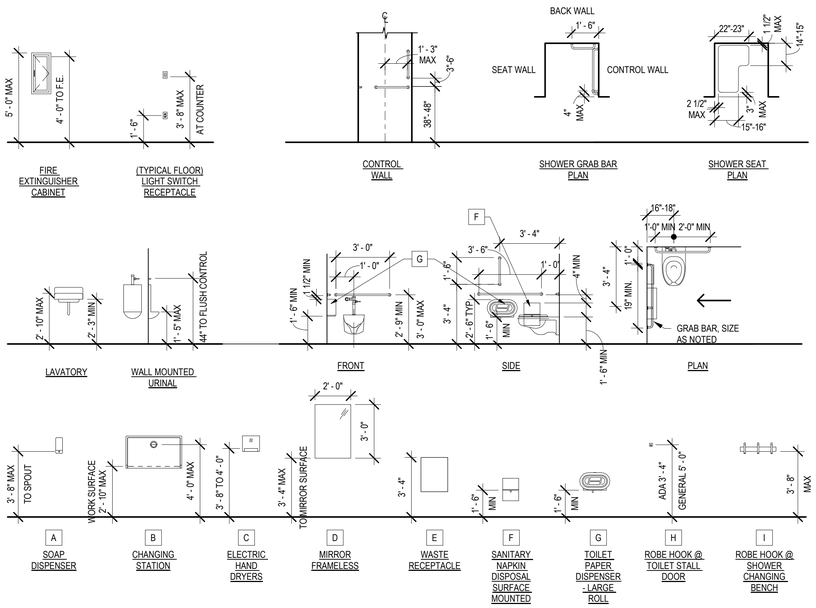
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C - BUILDING SECTIONS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

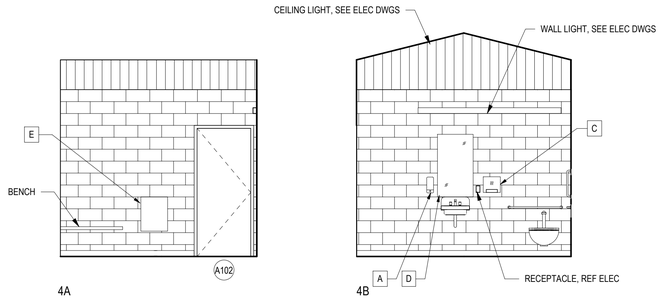
DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A-3
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

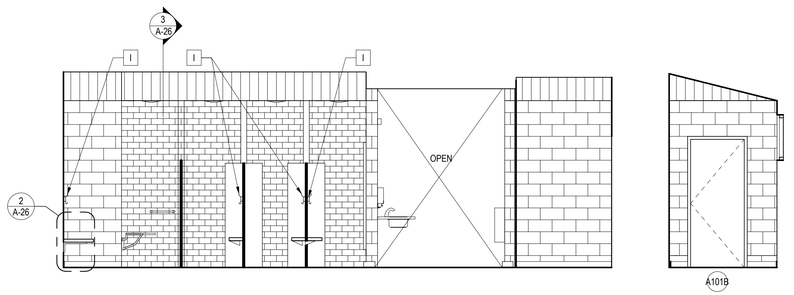
FILE PATH: A:\23_Hickory Run\01 Architecture\01_Revit\Hickory Run State Park Latrine Improvements - Thatcher.rvt
LAST SAVED: 2020.06.04 12:14 PM PLOTTED: 2016.11.08 10:35 AM PLOTTED BY: Megan M. Stenski

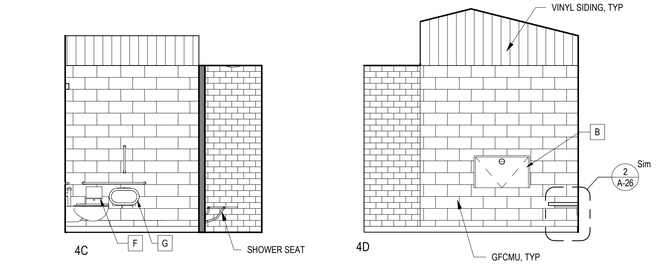


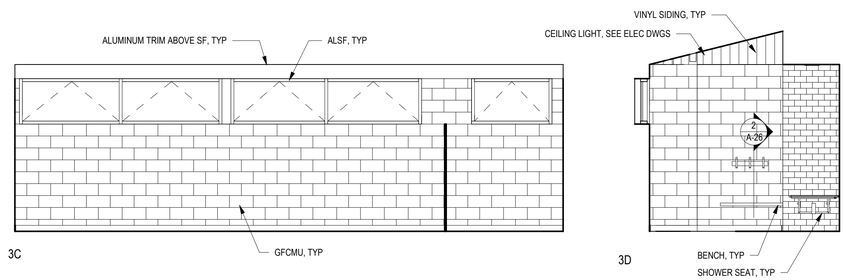
TYPICAL MOUNTING HEIGHTS

1/4" = 1'-0"







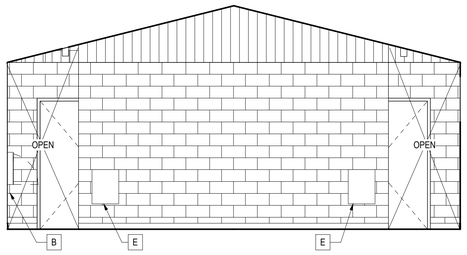


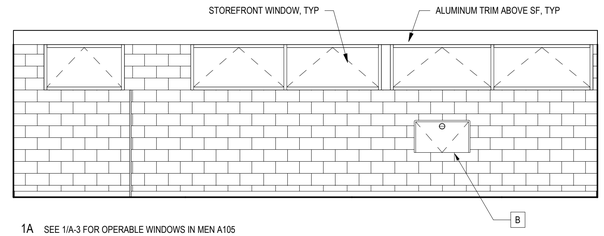
4C A-4 INTERIOR ELEVATIONS - RESTROOMS A102/A104

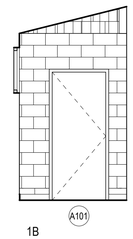
1/4" = 1'-0"

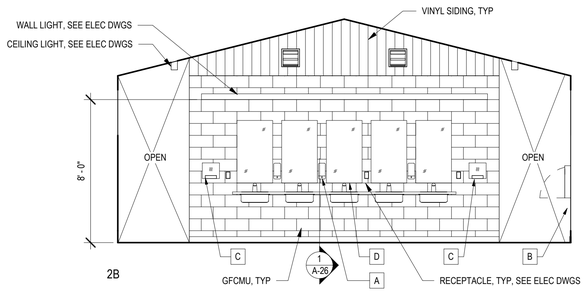
3C A-4 INTERIOR ELEVATIONS - WOMEN A101/MENA106 SHOWER AREA

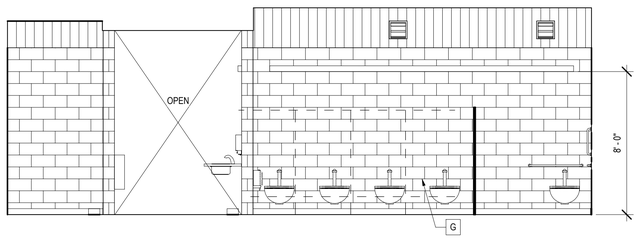
1/4" = 1'-0"

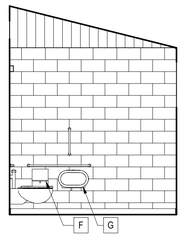






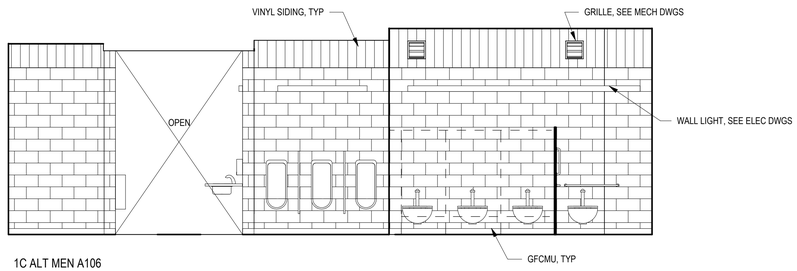






2B A-4 INTERIOR ELEVATIONS - WOMEN A101/MEN A105 SINK AREA

1/4" = 1'-0"



1 A-4 INTERIOR ELEVATIONS - WOMEN A101/MEN A106 TOILET AREA

1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TIMOTHY WOODWARD No. RA015934

03/05/2021

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

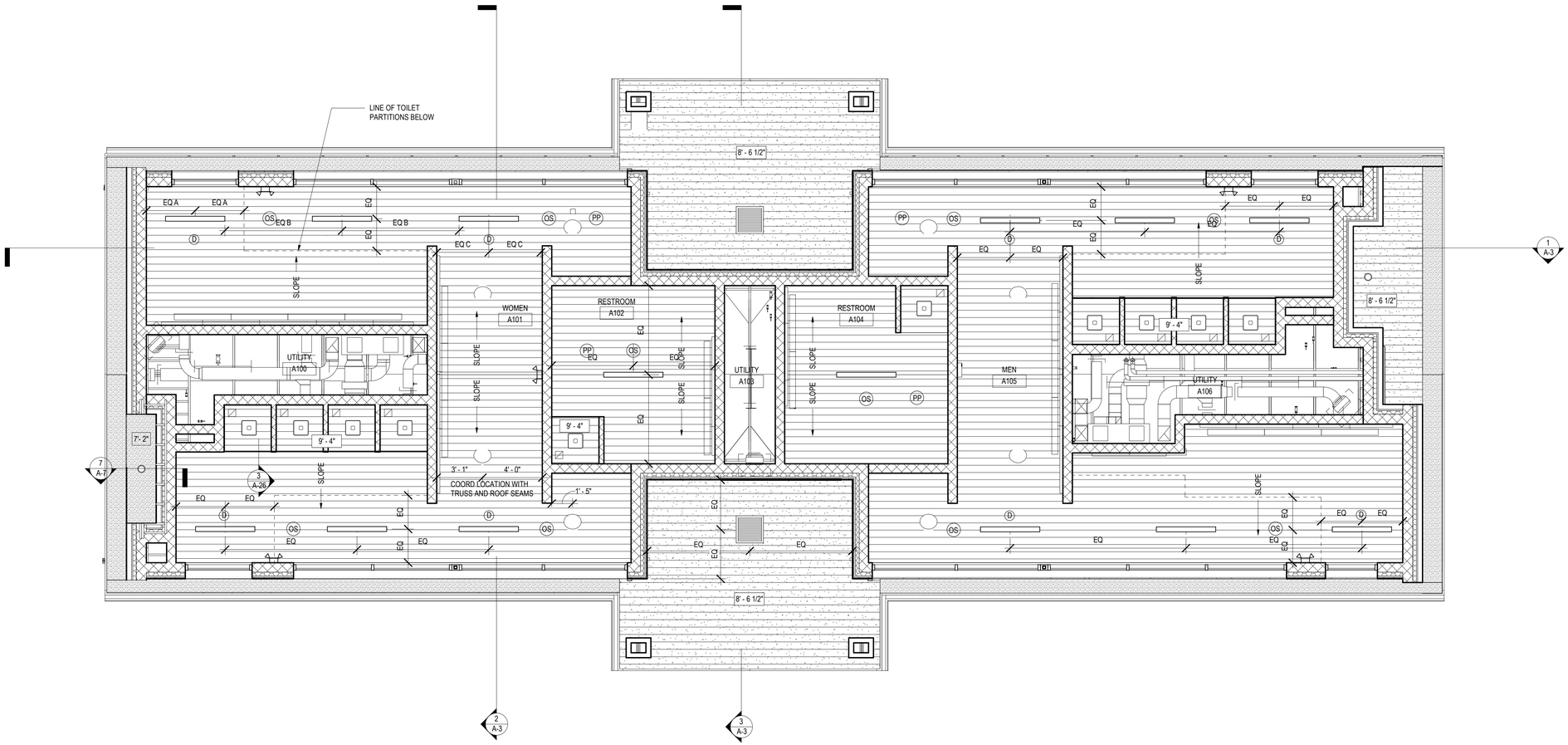
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C – INTERIOR ELEVATIONS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–4
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	



1 A-5 LOOP C - REFLECTED CEILING PLAN
1/4" = 1'-0"

RCP LEGEND

- 4' x 4" SURFACED MOUNTED LED LIGHT
- LED SHOWER LIGHT
- EMERGENCY LIGHT
- WALL MOUNTED LED UP/DOWN LIGHT
- BUILDING MOUNTED EXTERIOR LED LIGHT
- LED STRIP LIGHT
- RECESSED EXTERIOR CAN LIGHT
- OCCUPANCY SENSOR
- OCCUPANCY SENSOR
- POWER PACK
- TUBULAR SKYLIGHT
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- VINYL PANELING
- FIBER CEMENT SOFFIT PANELS

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA-016180-X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

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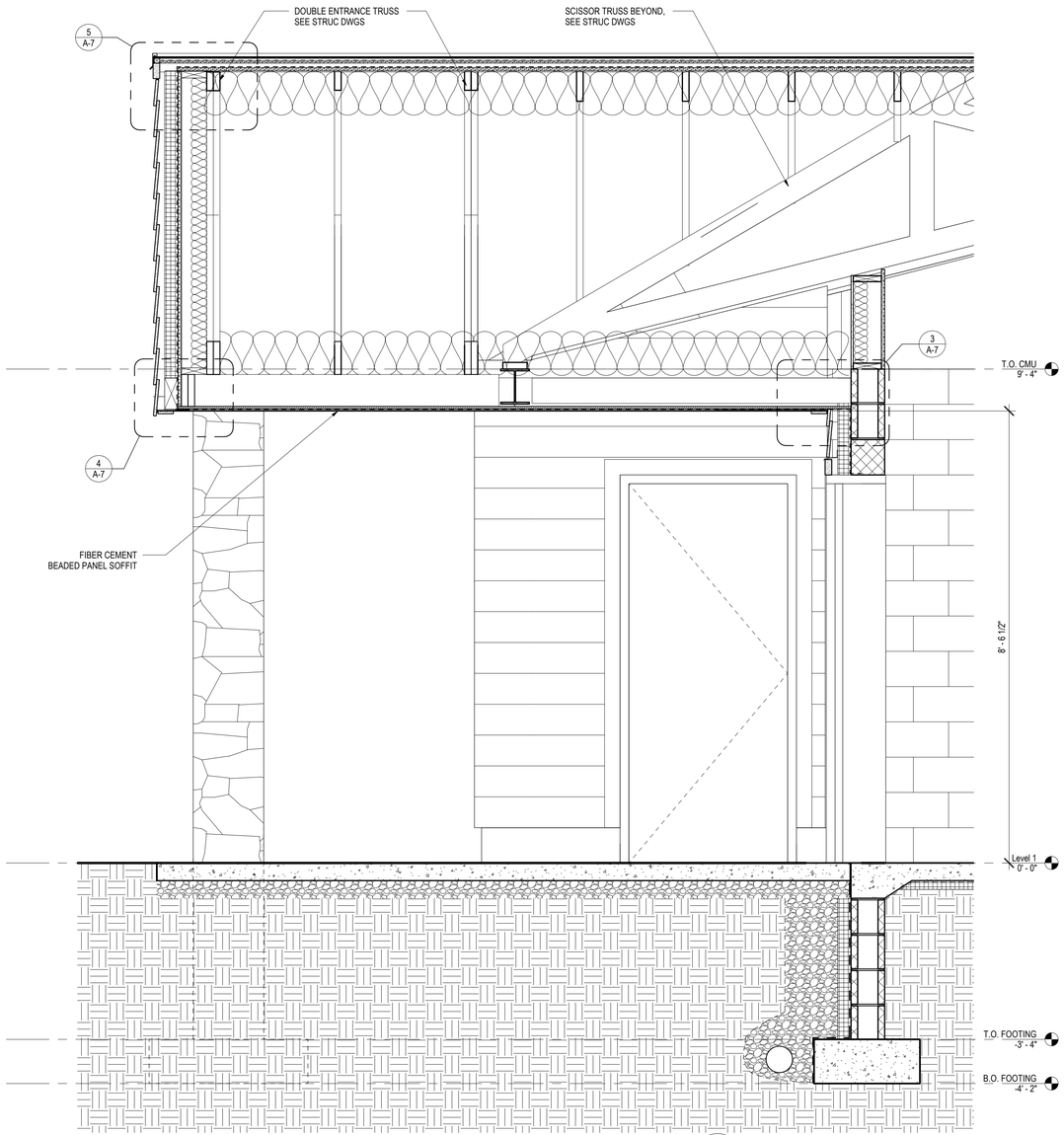
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C – REFLECTED CEILING PLAN

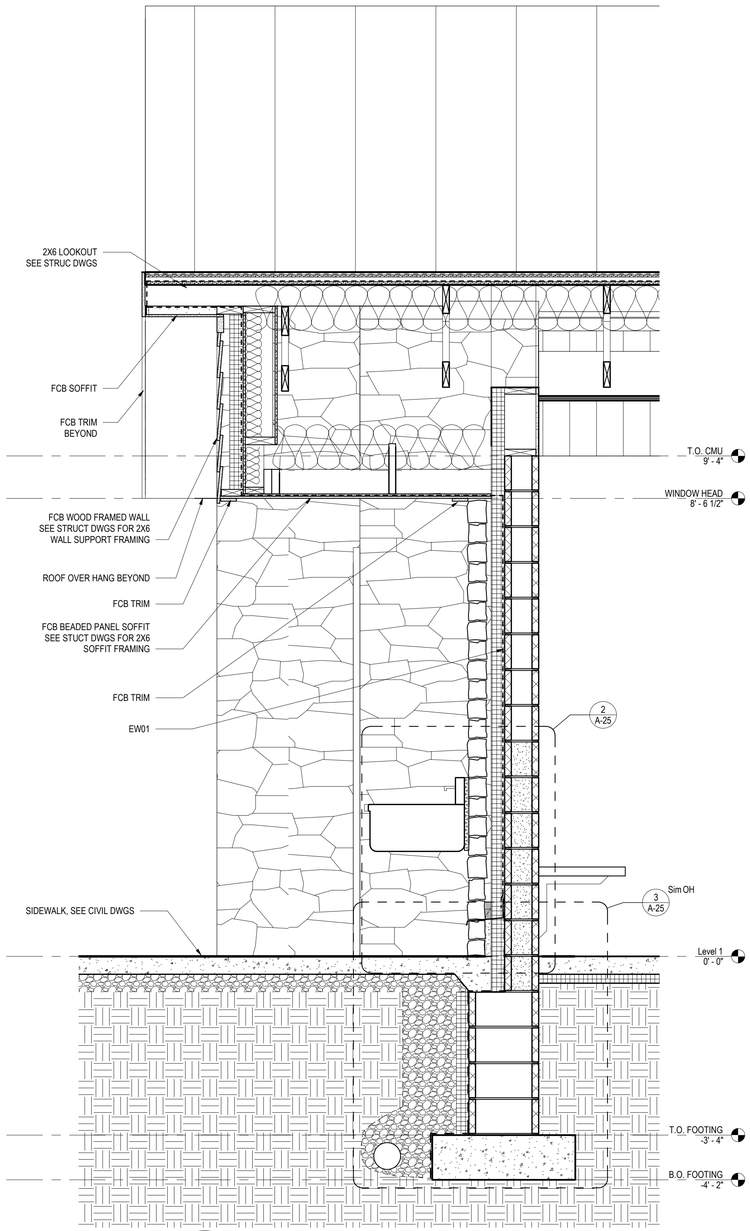
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–5
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

59 OF 144



2 / A-6 WALL SECTION - LOOP C ENTRY PORCH
3/4" = 1'-0"



1 / A-6 WALL SECTION - LOOP C DISHWASHING SINK OVERHANG
3/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA
LOUIS WOODWARD No. RA016140X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C - WALL SECTIONS

VERIFY SCALE

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0 — 1

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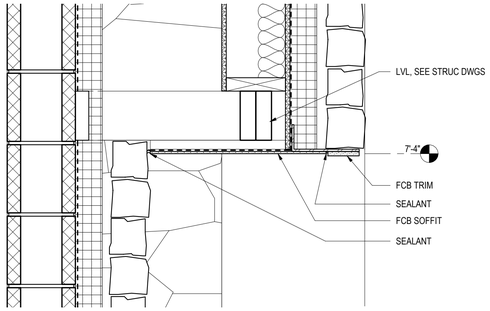
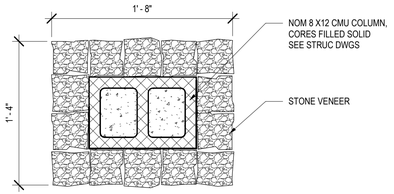
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

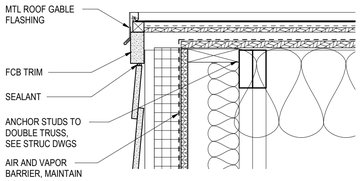
DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A-6
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	



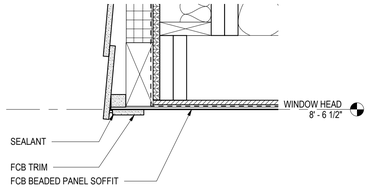
7 A-7 SECTION - FCB SOFFIT AT STONE WALL
1 1/2" = 1'-0"



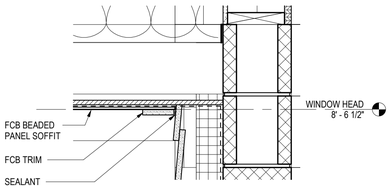
6 A-7 PLAN DETAIL - LOOP C PORCH COLUMN
1 1/2" = 1'-0"



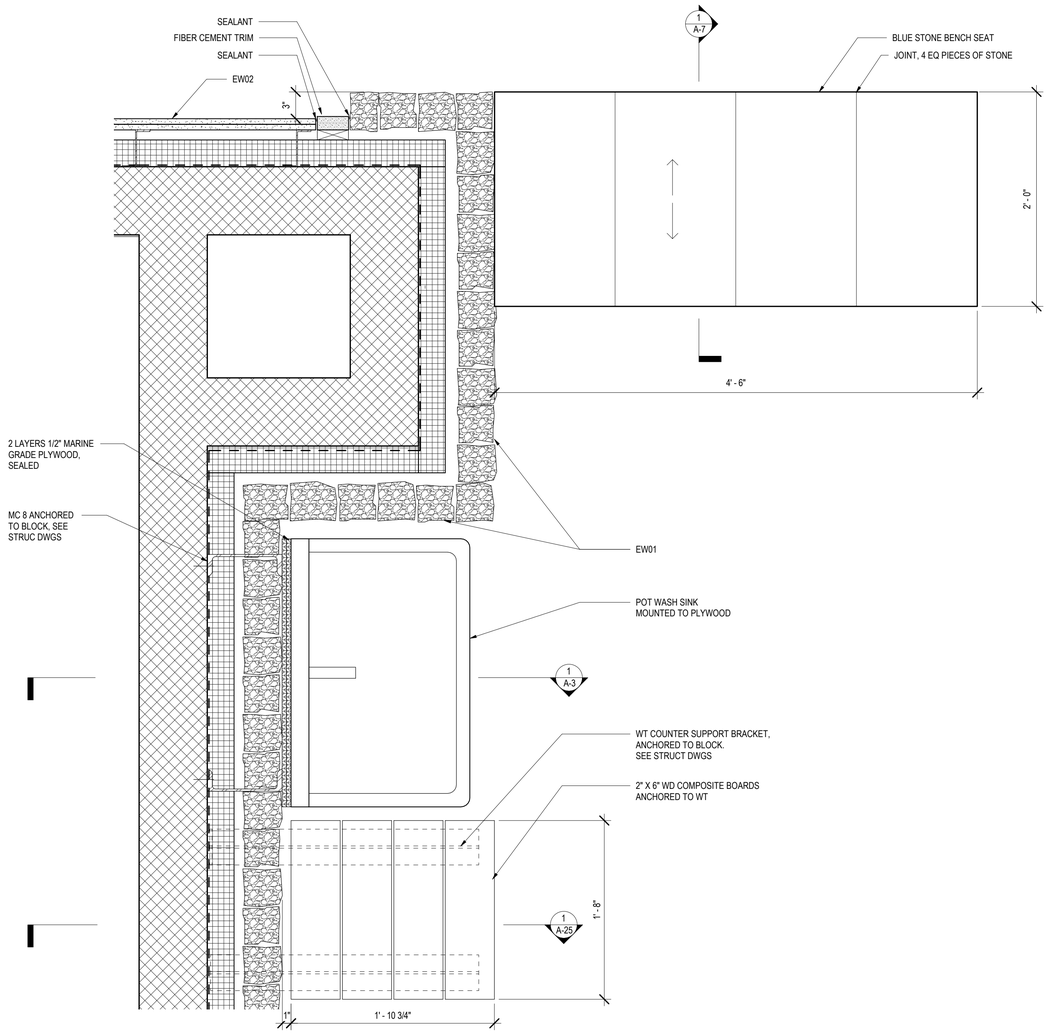
5 A-7 WALL SECTION - RAKE DETAIL
1 1/2" = 1'-0"



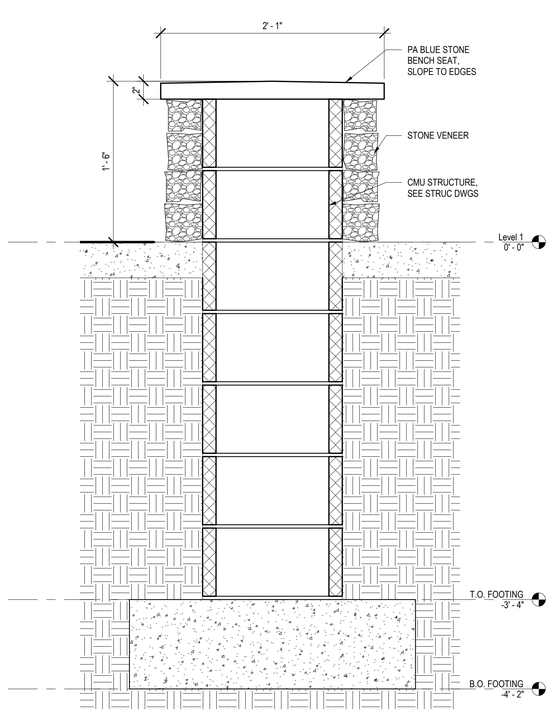
4 A-7 WALL SECTION - FCB SOFFIT OUTSIDE CORNER
1 1/2" = 1'-0"



3 A-7 SECTION DETAIL - FCB SOFFIT INSIDE CORNER
1 1/2" = 1'-0"



2 A-7 PLAN DETAIL - LOOP C EXTERIOR BENCH
1 1/2" = 1'-0"



1 A-7 SECTION - LOOP C EXTERIOR BENCH
1 1/2" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA051870A

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C– DETAILS

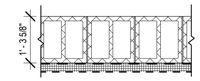
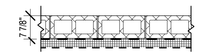
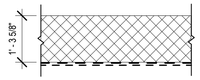
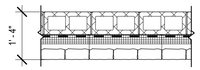
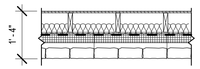
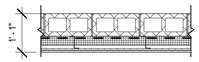
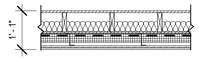
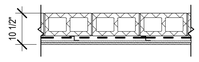
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–7
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

61 OF 144

FILE PATH: A:\23_Hickory Run\01 Architect\01 Revit\Hickory Run State Park Latrine Improvements - Thatsaxa.rvt
LAST SAVED: 2020.06.04 12:14 PM PLOTTED: 2016.11.08 10:35 AM PLOTTED BY: Wayne M. Strenski

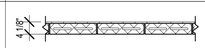
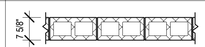
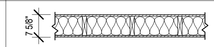
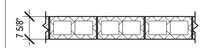
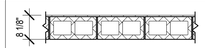
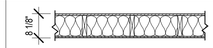
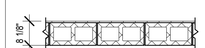
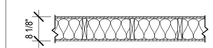
EXTERIOR WALL TYPES

TYPE	DESCRIPTION	CODE REQ'D INSUL MIN. R-VALUE	CALCULATED U-VALUE	DETAIL	SPECIFICATION
FW01	16" CMU FOUNDATION WALL	R-15 FOR 36" BELOW R-15 ci			NOM 16" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, 3" RIGID MINERAL WOOL INSUL, DRAINAGE BOARD AND FILTER FABRIC.
FW02	8" CMU FOUNDATION WALL	R-15 FOR 36" BELOW R-15 ci			NOM 8" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, 3" RIGID MINERAL WOOL INSUL, DRAINAGE BOARD AND FILTER FABRIC.
FW03	16" CMU FOUNDATION WALL	N/A			NOM 16" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, DRAINAGE BOARD AND FILTER FABRIC.
FW04	8" CMU FOUNDATION WALL	N/A			NOM 8" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, DRAINAGE BOARD AND FILTER FABRIC.
EW01	16" STONE VENEER MASONRY CAVITY WALL (UP TO 9'-4")	MIN R-11.4 ci R- 12.6ci			NOM 4" STONE VENEER TIED BACK TO GFCMU, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID-APPLIED AIR AND WEATHER BARRIER, NOM 8" GFCMU
	16" WOOD FRAMED STONE VENEER RAINSCREEN WALL (ABOVE 9'-4")	MIN R-13 + R-3.8ci OR R-20 R-27			NOM 4" STONE VENEER TIED BACK TO SHEATHING, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID-APPLIED AIR AND WEATHER BARRIER, 1/2" EXT GYPSUM SHEATHING, 8" WOOD STUDS, 3.5" STONE WOOL BATT INSULATION, 5/8" PLYWOOD, VINYL FINISH SIDE WHERE EXPOSED TO INTERIOR, VINYL TO BE FLUSH WITH GFCMU BELOW
EW02	12" GFCMU FIBER CEMENT RAINSCREEN WALL (UP TO 9'-4")	MIN R-11.4 ci R-12.6 ci			FIBER CEMENT CLADDING, THERMALLY BROKEN RAINSCREEN SUB-FRAMING, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID -APPLIED AIR AND WEATHER BARRIER, NOM 8" GFCMU
	12" WOOD FRAMED FIBER CEMENT RAINSCREEN WALL (ABOVE 9'-4")	MIN R-13 + R-3.8ci OR R-20 R-27			FIBER CEMENT CLADDING, THERMALLY BROKEN RAINSCREEN SUB-FRAMING, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID -APPLIED AIR AND WEATHER BARRIER, 1/2" EXT GYPSUM SHEATHING, 8" WOOD STUDS- RIPPED DOWN TO SIZE, 3.5" STONE WOOL BATT INSULATION, 5/8" PLYWOOD, VINYL FINISH SIDE WHERE EXPOSED TO INTERIOR, VINYL TO BE FLUSH WITH GFCMU BELOW
EW03	10 1/2" GFCMU FIBER CEMENT RAINSCREEN WALL (UP TO 9'-4")	N/A			FIBER CEMENT CLADDING, RAINSCREEN SUB-FRAMING, 2" AIR SPACE, FLUID -APPLIED AIR AND WEATHER BARRIER, NOM 8" GFCMU
	10 1/2" WOOD FRAMED FIBER CEMENT RAINSCREEN WALL (ABOVE 9'-4")	N/A			FIBER CEMENT CLADDING, RAINSCREEN SUB-FRAMING, 2 1/2" AIR SPACE, FLUID -APPLIED AIR AND WEATHER BARRIER, 1/2" EXT GYPSUM SHEATHING, WOOD STUDS, 5/8" PLYWOOD, VINYL FINISH SIDE WHERE EXPOSED TO INTERIOR

NOTES:
1. REFER TO STRUCTURAL DRAWINGS FOR STUD SPACING AT EXTERIOR SHEAR WALLS.
2. REFER TO STRUC DWGS FOR MASONRY / REINFORCEMENT REQUIREMENTS AND DETAILS.
3. ALL EXTERIOR MASONRY WALLS TO HAVE THERMALLY BROKEN TIES / ANCHORS.
4. SPACE RAINSCREEN SUB-FRAMING PER MFR'S REQUIREMENTS.
5. PROVIDE CONTINUOUS NON-HARDENING SEALANT AROUND PERIMETER OF INTERIOR WALL BETWEEN ADJACENT WALLS, CEILINGS, AND STRUC.
6. MINIMUM R-VALUES ARE BASED ON 2015 IECC TABLE C402.13. PROJECT INSUL R-VALUES ARE BASED ON THE SPECIFIED B.OD. AS FOLLOWS:
   1" RIGID MINERAL WOOL = R-4.2

2 EXTERIOR WALL TYPES
A-8 1/2" = 1'-0"

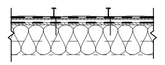
INTERIOR PARTITION TYPES

TYPE	DESCRIPTION	HEIGHT	DETAIL TO 9'-4" AFF	DETAIL ABOVE 9'-4" AFF	SPECIFICATION
1A	4" GFCMU PARTITION WITH TILE ONE SIDE	9'-4"		——	NOM 4" GFCMU WITH 3/8" MORTAR JOINTS AND TILE ONE SIDE
1B	4" CMU PARTITION WITH TILE BOTH SIDES	9'-4"		——	NOM 4" CMU WITH 3/8" MORTAR, JOINTS AND TILE BOTH SIDES
2A	8" GFCMU PARTITION	TO UNDERSIDE OF DECK UNO			NOM 8" GFCMU TO 9'-4" AFF, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS BOTH SIDES. STUD WALL FINISHES TO BE FLUSH WITH GFCMU WALL BELOW.
2B	8" GFCMU PARTITION	TO UNDERSIDE OF DECK UNO			NOM 8" GFCMU TO 9'-4" AFF, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS ONE SIDE, 1/2" PLYWOOD OTHER SIDE. STUD WALL FINISHES TO BE FLUSH WITH GFCMU WALL BELOW.
2C	8" GFCMU PARTITION WITH TILE ONE SIDE	TO UNDERSIDE OF DECK UNO			NOM 8" GFCMU WITH TILE TO 9'-4" AFF ONE SIDE, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS BOTH SIDES. STUD WALL FINISHES TO BE FLUSH WITH GFCMU WALL BELOW.
2D	8" CMU PARTITION WITH TILE ONE SIDE	TO UNDERSIDE OF DECK UNO			NOM 8" CMU WITH TILE TO 9'-4" AFF ONE SIDE, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS TILE SIDE, 1/2" PLYWOOD OTHER SIDE. STUD WALL FINISHES TO BE FLUSH WITH CMU WALL BELOW.

NOTES:
1. WHERE WALL TILE IS INDICATED ON THE FINISH SCHEDULE, PROVIDE CEMENT BACKERBOARD SUBSTRATE.

3 PARTITION TYPES
A-8 1/2" = 1'-0"

ROOF TYPES

TYPE	DESCRIPTION	CODE-REQ'D INSUL MIN R-VALUE	CALCULATED U-VALUE	DETAIL	SPECIFICATION
R1	SLOPED ASPHALT SHINGLE	N/A			ASPHALT SHINGLE ROOF SYSTEM, UNDERLAYMENT AND EAVE PROTECTION, 3/4" EXT GRADE-PLYWD
R2	STANDING SEAM MTL ROOF	MIN R-38			STANDING SEAM MTL ROOF SYSTEM, ROOF UNDERLAYMENT (ON BOTH LAYERS OF PLYWD), 1/2" EXT GRADE PLYWD ON SLEEPERS TO PROVIDE 1" AIR SPACE, 3/4" EXT GRADE PLYWD, 9.5" BATT INSULATION BETWEEN WOOD TRUSSES HUNG ON INSULATION MESH

GENERAL ROOF NOTES:
1. SEE STRUC DWGS FOR ROOF DECK & STRUCTURE.
2. SEE ROOF PLAN DWG AND A-26 SERIES DWGS FOR ADDITIONAL DETAILS.
3. MINIMUM INSUL R-VALUES ARE BASED ON 2015 TABLE C402.1.3.
   PROJECT INSUL R-VALUES ARE BASED ON THE SPECIFIED B.O.D. AS FOLLOWS:
   MINERAL WOOL BATT = R4 / INCH

1 ROOF TYPES
A-8 1/2" = 1'-0"

DOOR SCHEDULE - LOOP C

DOOR NO.	ROOM	NEW	EXT	DOOR TYPE	DOOR MAT	DOOR RATING	DOOR WIDTH	DOOR HEIGHT	DOOR FIN	DOOR GLAZING	FRAME TYPE	FRAME MAT	FRAME FIN	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HARDWARE	NOTES
A100	UTILITY	●	●	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6B / A24	6A / A24		1.0	
A101	WOMEN	●	●	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		4.0	
A101B	WOMEN	●	●	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		4.0	
A102	RESTROOM	●	●	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		2.0	
A103		●	●	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		1.0	
A104	RESTROOM	●	●	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		2.0	
A105	MEN	●	●	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		4.0	
A105B	MEN	●	●	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		4.0	
A106	UTILITY	●	●	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6B / A24	6A / A24		1.0	

FINISH SCHEDULE - LOOP C

ROOM NO	ROOM NAME	FLOOR MAT	FLOOR FIN	BASE MAT	BASE FIN	BASE HT	NORTH MAT	NORTH FIN	EAST MAT	EAST FIN	SOUTH MAT	SOUTH FIN	WEST MAT	WEST FIN	CEILING MAT	CEILING FIN	NOTES
A100	UTILITY	CONC	SEAL	-	-	-	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	EXP	-	
A101	WOMEN	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU	FF	CMU / VINYL	FF	CMU	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
A102	RESTROOM	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
A103	UTILITY	CONC	SEAL	-	-	-	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	EXP	-	
A104	RESTROOM	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
A105	MEN	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU	FF	CMU / VINYL	FF	CMU	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
A106	UTILITY	CONC	SEAL	-	-	-	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	EXP	-	

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA016160X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

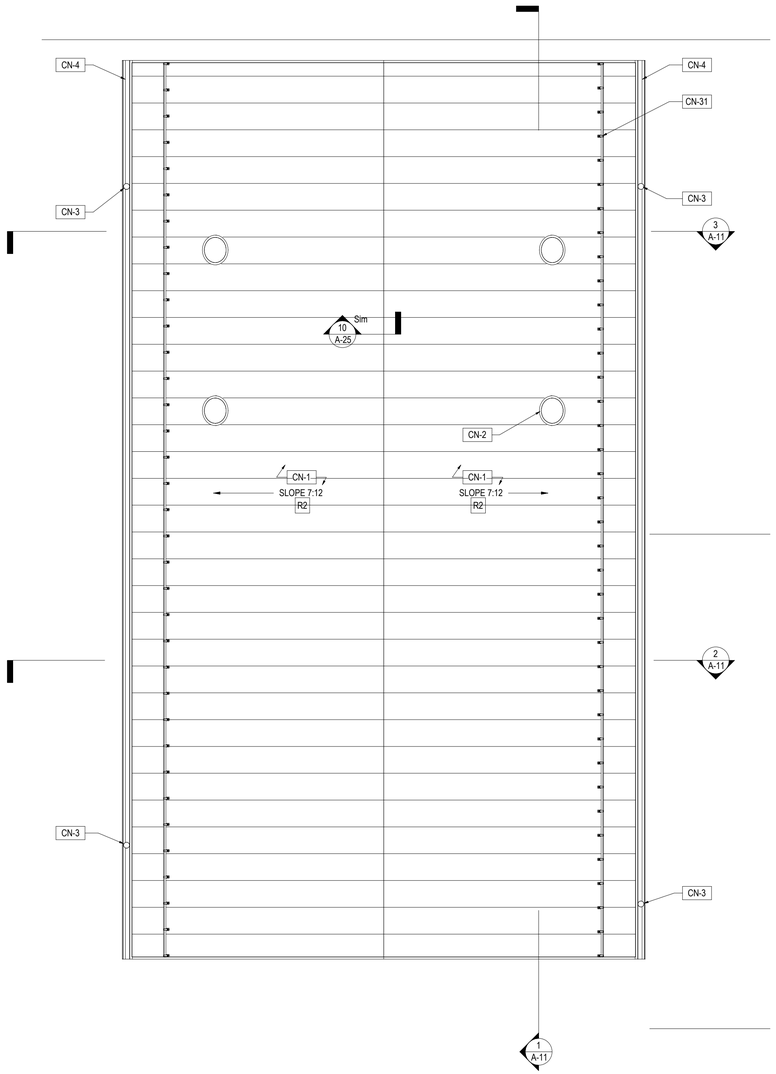
LOOP C - SCHEDULES AND TYPES

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

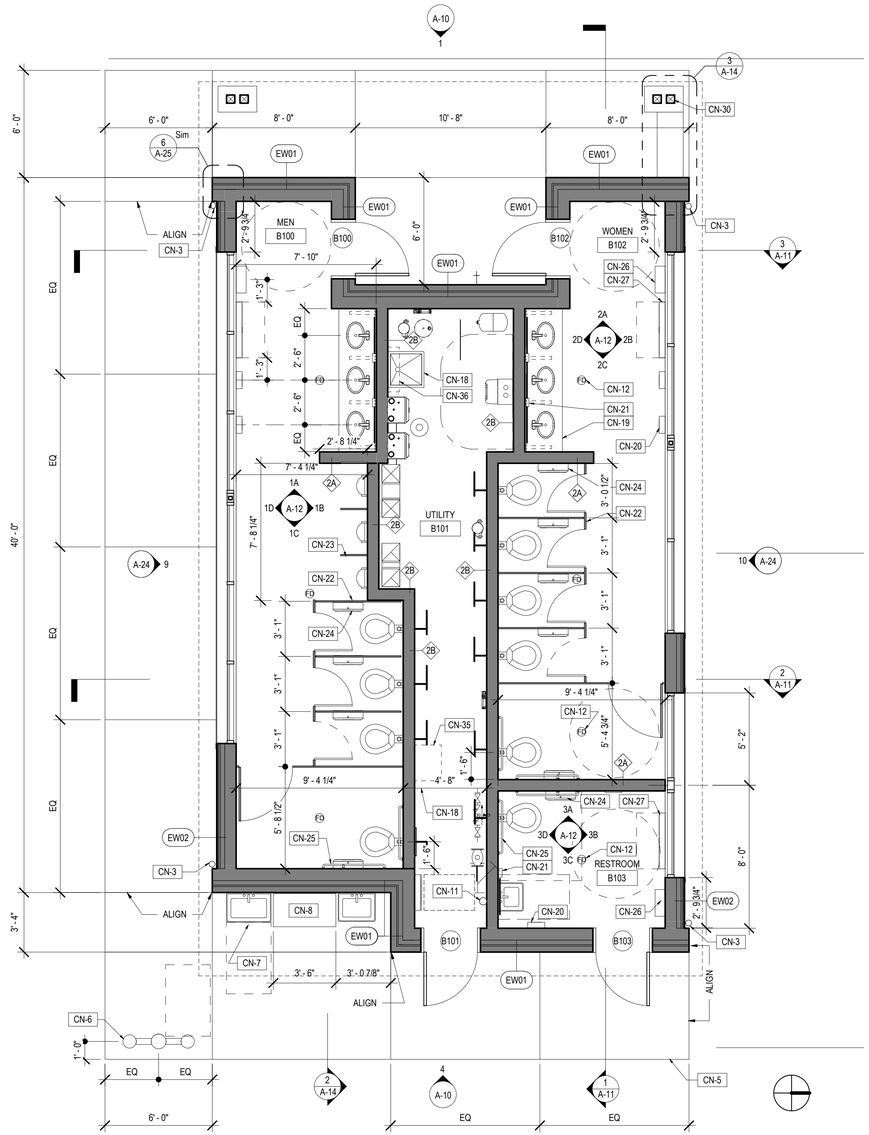
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY M STRENSKI | DATE 06/17/2022
CHECKED BY T WOODWARD | SCALE AS NOTED
DRAWING No. A-8
62 OF 144

FILE PATH: J:\721-Hickory Run\01 Architect\01 Pw\Hickory Run State Park Latrine Improvements - Title Block.dwg
LAST SAVED: 2020.06.04 12:14 PM PLOTTED: 2016.11.08 10:35 AM PLOTTED BY: Megan M. Strenski



2 A-9 TENT CAMP ROOF PLAN
1/4" = 1'-0"



1 A-9 TENT CAMP - FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES:

1. HVAC EQUIPMENT IS PROVIDED BY THE .2 CONTRACT.
2. PLUMBING FIXTURES ARE PROVIDED BY THE .3 CONTRACT.
3. LIGHT FIXTURES ARE PROVIDED BY THE .4 CONTRACT.
4. ALL EXPOSED SURFACES OF GFCMU BLOCKS IN OCCUPIED SPACES SHALL BE GROUND AND FINISHED.

CONSTRUCTION NOTES (CN)

CN-1 STANDING SEAM METAL ROOF (R2)
CN-2 TUBULAR SKYLIGHT
CN-3 METAL DOWNSPOUT
CN-4 METAL GUTTER
CN-5 CONCRETE SIDEWALK. SEE CIVIL DWGS.
CN-6 WATER FOUNTAIN. SEE MEP DWGS.
CN-7 DISHWASHING SINK
CN-8 EXTERIOR COUNTER
CN-9 STONE VENEER BENCH WITH CAST STONE SEAT
CN-10 NOT USED
CN-11 WALL MOUNTED FIRE EXTINGUISHER
CN-12 FLOOR DRAIN. SEE MEP DWGS.
CN-13 CHANGING AREA PARTITION
CN-14 BENCH BY PARTITION MANUFACTURER, HOOK (TYPE I) MOUNTED ABOVE
CN-15 ADA FOLDING SHOWER SEAT
CN-16 TRENCH DRAIN. SEE MEP DWGS.
CN-17 EPOXY FLOOR. SLOPE TO DRAIN.
CN-18 MOP SINK
CN-19 QUARTZ COUNTERTOP
CN-20 ELECTRIC HAND DRYER
CN-21 SOAP DISPENSER
CN-22 TOILET PARTITION
CN-23 URINAL SCREEN
CN-24 TOILET PAPER DISPENSER
CN-25 ADA GRAB BARS
CN-26 WASTE RECEPTACLE
CN-27 BABY CHANGING STATION
CN-28 ASPHALT SHINGLE ROOF (R1)
CN-29 STONE VENEER COLUMN
CN-30 WOOD COLUMNS WITH STONE VENEER BASE
CN-31 SNOW GUARD
CN-32 HDPE WALL MOUNTED BENCH
CN-33 ROOFLINE ABOVE
CN-34 SEE MEP DRAWINGS FOR EQUIPMENT IN UTILITY ROOM
CN-35 CLEAR FLOOR SPACE FOR LADDER
CN-36 UTILITY SHELF

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA016160-E

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

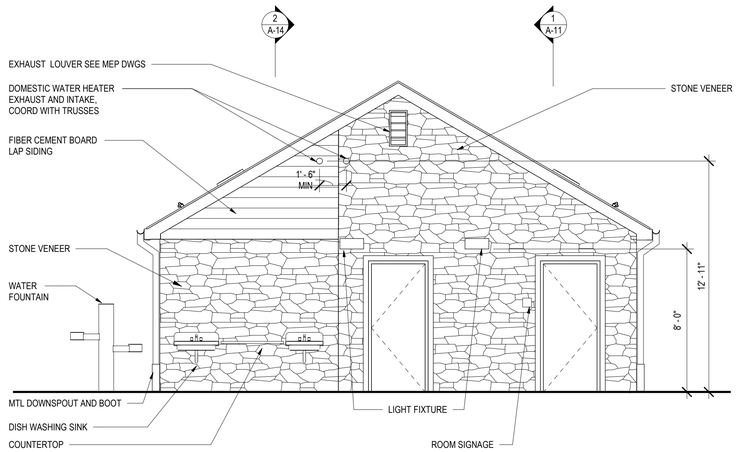
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP TENT CAMPING – PLANS

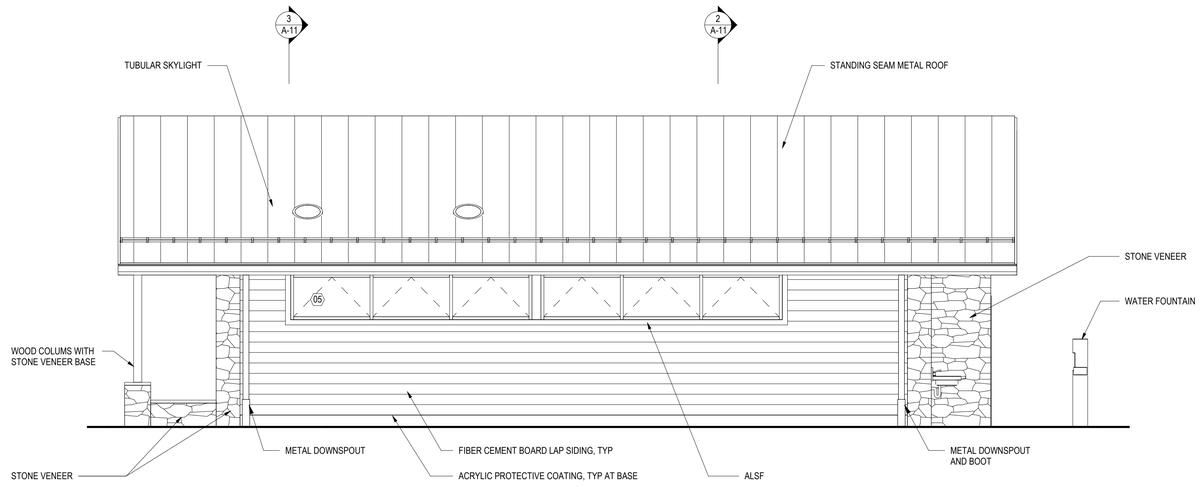
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–9
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

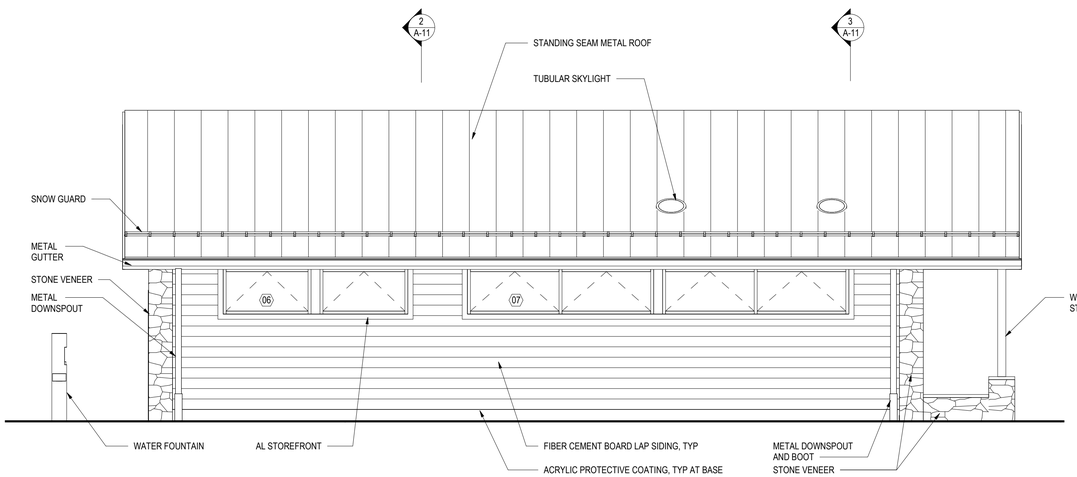
63 OF 144



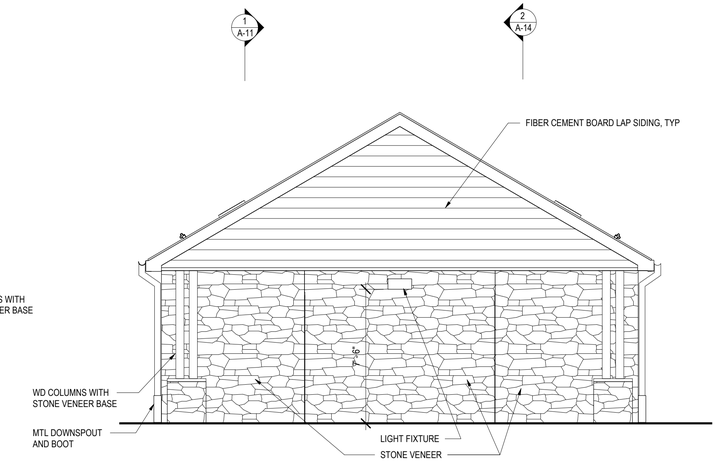
4 A-10 WEST ELEVATION
1/4" = 1'-0"



3 A-10 NORTH ELEVATION
1/4" = 1'-0"



2 A-10 SOUTH ELEVATION
1/4" = 1'-0"



1 A-10 EAST ELEVATION
1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
THOMAS WOODWARD No. RA016160X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ▬▬ 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

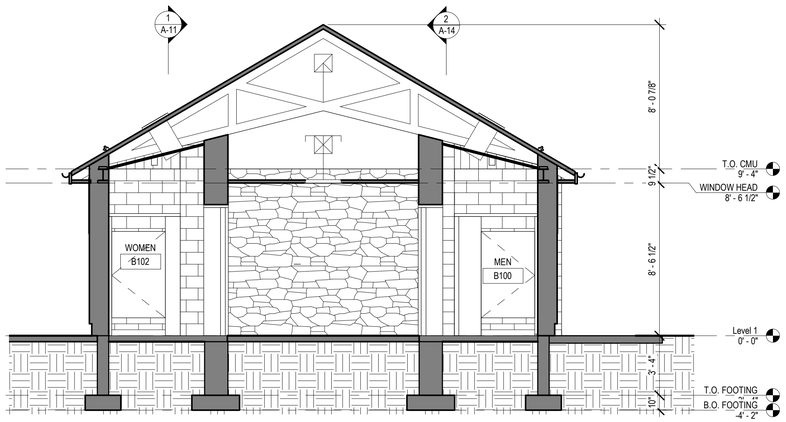
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP TENT CAMPING – EXTERIOR ELEVATIONS

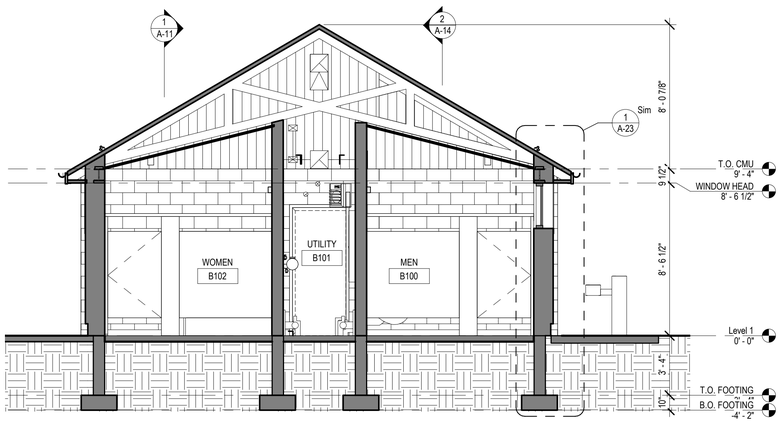
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–10
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

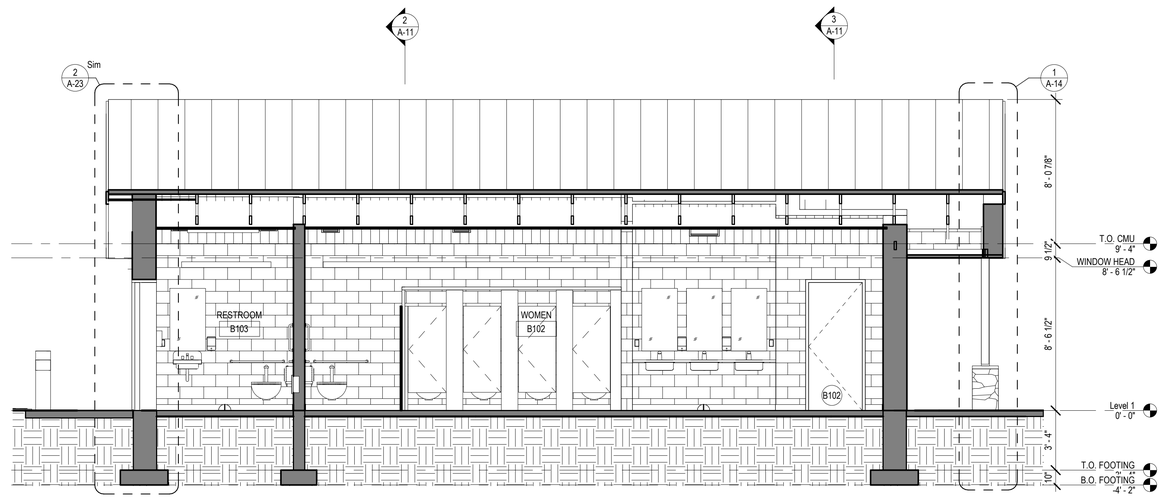
64 OF 144



3 A-11 CROSS SECTION 2
1/4" = 1'-0"



2 A-11 CROSS SECTION 1
1/4" = 1'-0"



1 A-11 LONGITUDINAL SECTION
1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA
TODD WOODWARD No. RA016747X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1

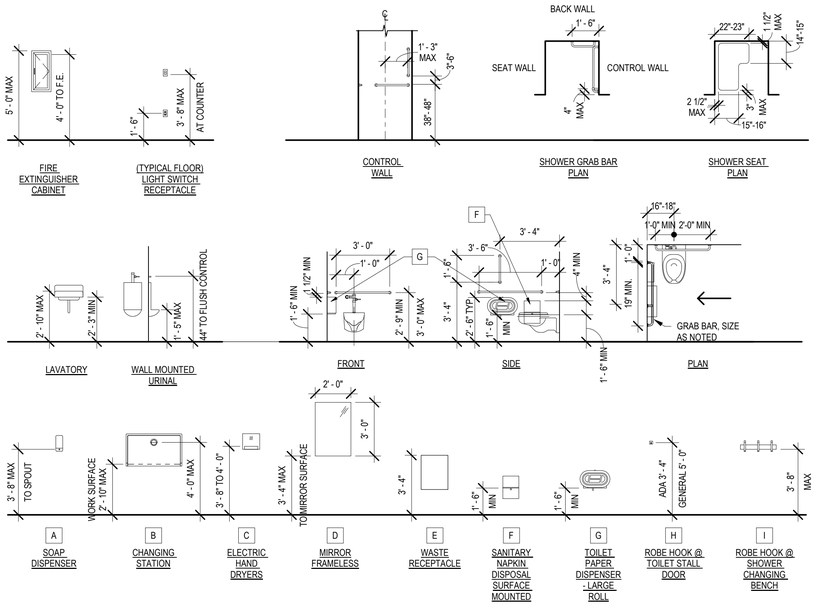
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP TENT CAMPING – BUILDING SECTIONS

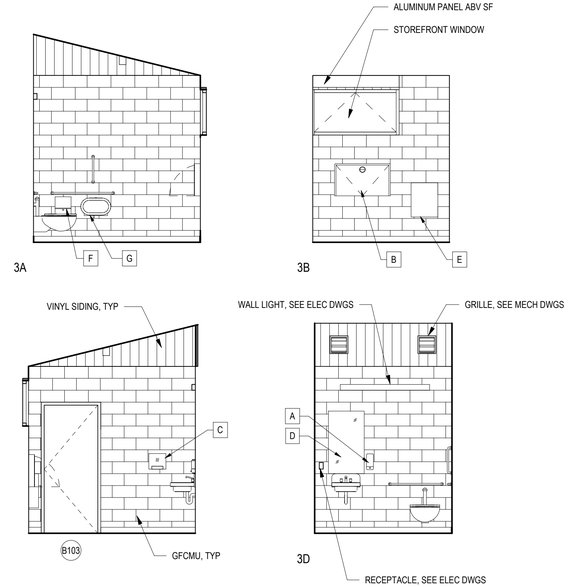
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–11
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	



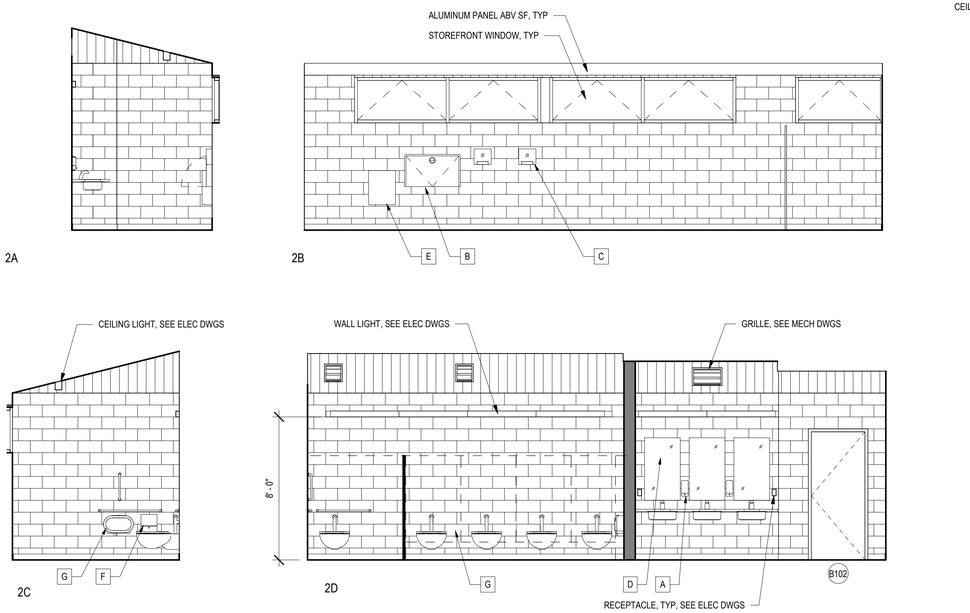
TYPICAL MOUNTING HEIGHTS

1/4" = 1'-0"



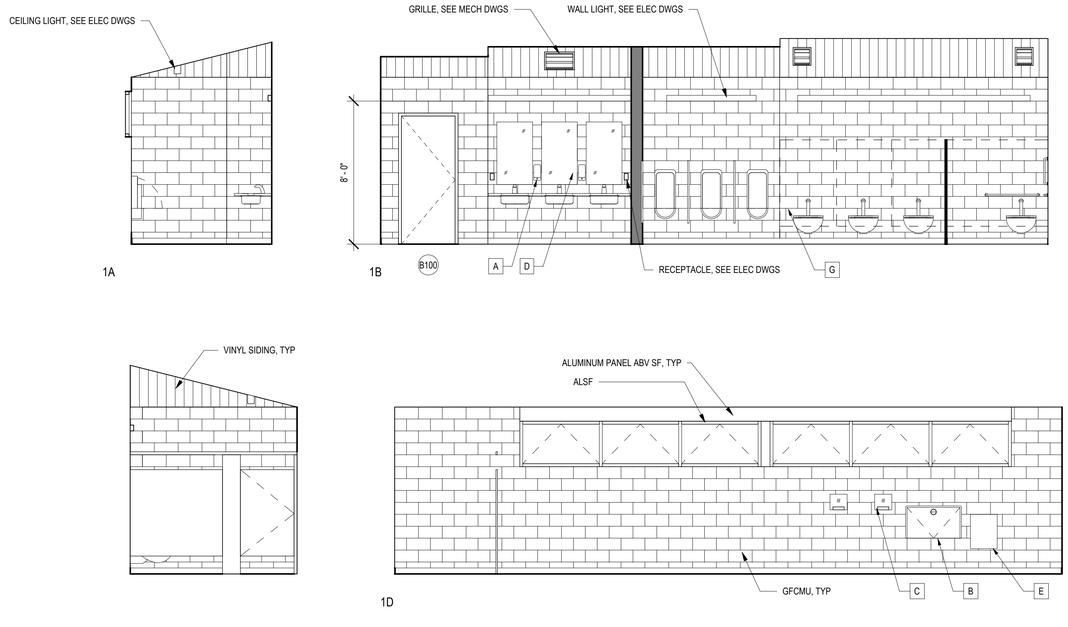
3C / A-12 INTERIOR ELEVATIONS - RESTROOM B103

1/4" = 1'-0"



2C / A-12 INTERIOR ELEVATIONS - WOMEN B102

1/4" = 1'-0"



1C / A-12 INTERIOR ELEVATIONS - MEN B100

1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA-016160-X

03/05/2021

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
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IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

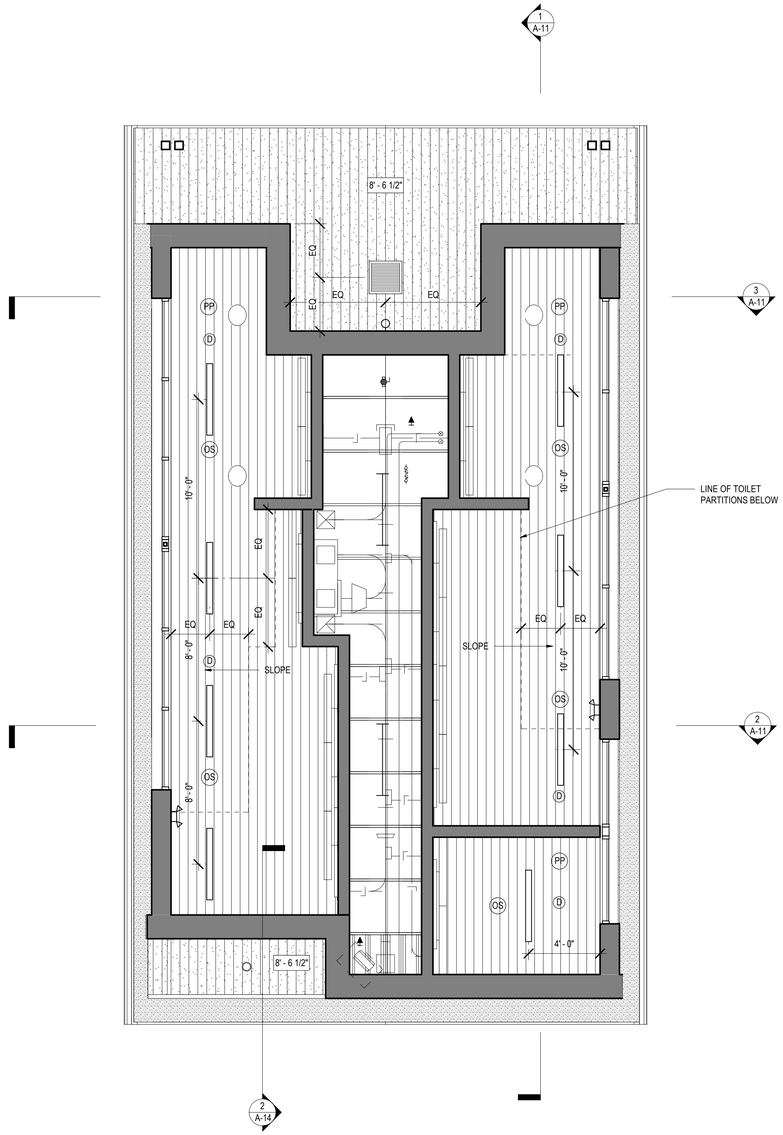
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS

DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP TENT CAMPING – INTERIOR ELEVATIONS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A-12
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	



1 A-13 OG TENT CAMP
1/4" = 1'-0"

RCP LEGEND

- 4" x 4" SURFACED MOUNTED LED LIGHT
- LED SHOWER LIGHT
- EMERGENCY LIGHT
- WALL MOUNTED LED UP/DOWN LIGHT
- BUILDING MOUNTED EXTERIOR LED LIGHT
- LED STRIP LIGHT
- RECESSED EXTERIOR CAN LIGHT
- (OS) OCCUPANCY SENSOR
- (D) OCCUPANCY SENSOR
- (PP) POWER PACK
- TUBULAR SKYLIGHT
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- VINYL PANELING
- FIBER CEMENT SOFFIT PANELS

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TIMOTHY WOODWARD No. RA035804

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

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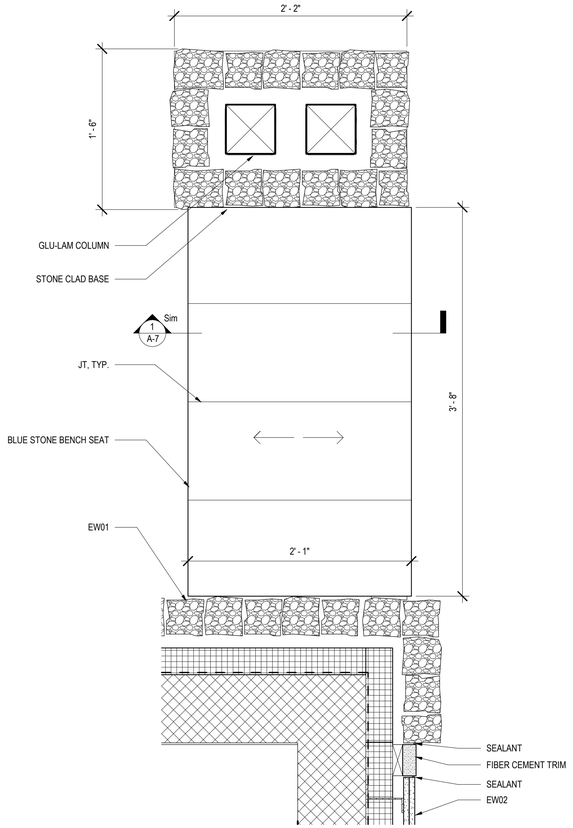
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

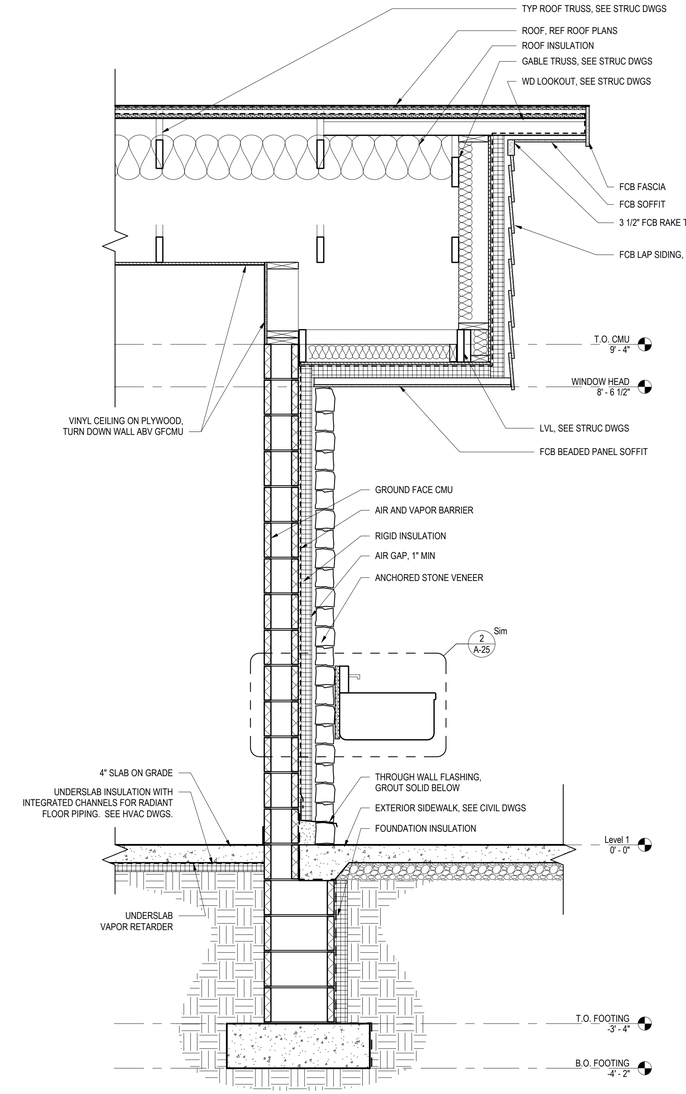
ORGANIZED GROUP TENT CAMPING – REFLECTED CEILING PLAN

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–13
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

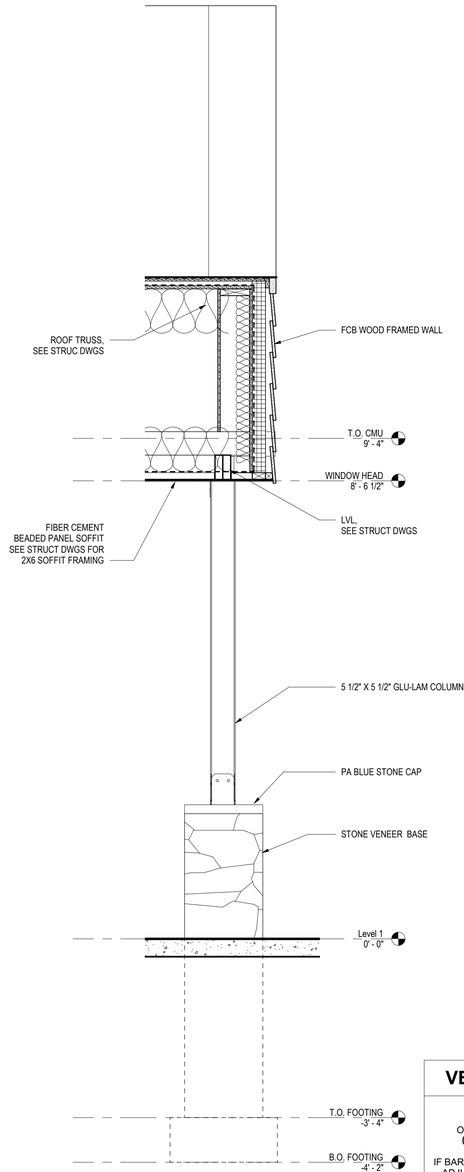
FILE PATH: J:\721-Hickory Run\01 Architecture\01_Dwg\Hickory Run State Park Latrine Improvements - Thatcock.dwg
LAST SAVED: 2022/06/24 12:14 PM PLOTTED: 2016/11/08 10:35 AM PLOTTED BY: Megan M. Strenski



3 A-14 PLAN DETAIL - OGTC COLUMN BASE AND ENTRY BENCH
1 1/2" = 1'-0"



2 A-14 WALL SECTION - DISHWASHING SINK OVERHANG
3/4" = 1'-0"



1 A-14 SECTION - OGTC ENTRY PORCH
3/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA-016190-X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP TENT CAMPING –
SECTIONS AND DETAILS

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1

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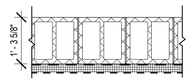
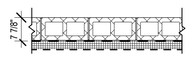
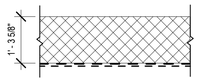
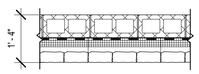
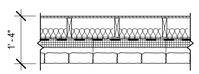
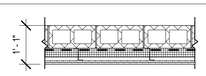
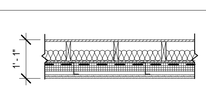
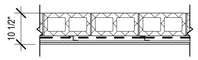
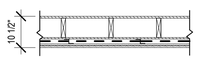
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–14
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

68 OF 144

FILE PATH: J:\723_Hickory Run\01 Architecture\01 Revit\Hickory Run State Park Latrine Improvements - Titleblock.rvt
LAST SAVED: 2020.06.04 12:14 PM PLOTTED: 2016.11.08 10:35 AM PLOTTED BY: Megan M. Stenski

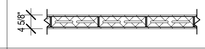
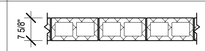
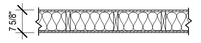
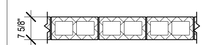
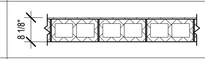
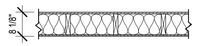
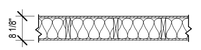
EXTERIOR WALL TYPES

TYPE	DESCRIPTION	CODE REQ'D INSUL MIN. R-VALUE	CALCULATED U-VALUE	DETAIL	SPECIFICATION
FW01	16" CMU FOUNDATION WALL	R-15 FOR 36" BELOW R-15 ci			NOM 16" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, 3" RIGID MINERAL WOOL INSUL, DRAINAGE BOARD AND FILTER FABRIC.
FW02	8" CMU FOUNDATION WALL	R-15 FOR 36" BELOW R-15 ci			NOM 8" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, 3" RIGID MINERAL WOOL INSUL, DRAINAGE BOARD AND FILTER FABRIC.
FW03	16" CMU FOUNDATION WALL	N/A			NOM 16" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, DRAINAGE BOARD AND FILTER FABRIC.
FW04	8" CMU FOUNDATION WALL	N/A			NOM 8" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, DRAINAGE BOARD AND FILTER FABRIC.
EW01	16" STONE VENEER MASONRY CAVITY WALL (UP TO 9'-4")	MIN R-11.4 ci R- 12.6ci			NOM 4" STONE VENEER TIED BACK TO GFCMU, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID-APPLIED AIR AND WEATHER BARRIER, NOM 8" GFCMU
	16" WOOD FRAMED STONE VENEER RAINSCREEN WALL (ABOVE 9'-4")	MIN R-13 + R-3.8ci OR R-20 R-27			NOM 4" STONE VENEER TIED BACK TO SHEATHING, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID-APPLIED AIR AND WEATHER BARRIER, 1/2" EXT GYPSUM SHEATHING, 8" WOOD STUDS, 3.5" STONE WOOL BATT INSULATION, 5/8" PLYWOOD, VINYL FINISH SIDE WHERE EXPOSED TO INTERIOR, VINYL TO BE FLUSH WITH GFCMU BELOW
EW02	12" GFCMU FIBER CEMENT RAINSCREEN WALL (UP TO 9'-4")	MIN R-11.4 ci R-12.6 ci			FIBER CEMENT CLADDING, THERMALLY BROKEN RAINSCREEN SUB-FRAMING, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID -APPLIED AIR AND WEATHER BARRIER, NOM 8" GFCMU
	12" WOOD FRAMED FIBER CEMENT RAINSCREEN WALL (ABOVE 9'-4")	MIN R-13 + R-3.8ci OR R-20 R-27			FIBER CEMENT CLADDING, THERMALLY BROKEN RAINSCREEN SUB-FRAMING, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID -APPLIED AIR AND WEATHER BARRIER, 1/2" EXT GYPSUM SHEATHING, 8" WOOD STUDS- RIPPED DOWN TO SIZE, 3.5" STONE WOOL BATT INSULATION, 5/8" PLYWOOD, VINYL FINISH SIDE WHERE EXPOSED TO INTERIOR, VINYL TO BE FLUSH WITH GFCMU BELOW
EW03	10 1/2" GFCMU FIBER CEMENT RAINSCREEN WALL (UP TO 9'-4")	N/A			FIBER CEMENT CLADDING, RAINSCREEN SUB-FRAMING, 2" AIR SPACE, FLUID -APPLIED AIR AND WEATHER BARRIER, NOM 8" GFCMU
	10 1/2" WOOD FRAMED FIBER CEMENT RAINSCREEN WALL (ABOVE 9'-4")	N/A			FIBER CEMENT CLADDING, RAINSCREEN SUB-FRAMING, 2 1/2" AIR SPACE, FLUID -APPLIED AIR AND WEATHER BARRIER, 1/2" EXT GYPSUM SHEATHING, WOOD STUDS, 5/8" PLYWOOD, VINYL FINISH SIDE WHERE EXPOSED TO INTERIOR

NOTES:
1. REFER TO STRUCTURAL DRAWINGS FOR STUD SPACING AT EXTERIOR SHEAR WALLS.
2. REFER TO STRUC DWGS FOR MASONRY / REINFORCEMENT REQUIREMENTS AND DETAILS.
3. ALL EXTERIOR MASONRY WALLS TO HAVE THERMALLY BROKEN TIES / ANCHORS.
4. SPACE RAINSCREEN SUB-FRAMING PER MFR'S REQUIREMENTS.
5. PROVIDE CONTINUOUS NON-HARDENING SEALANT AROUND PERIMETER OF INTERIOR WALL BETWEEN ADJACENT WALLS, CEILINGS, AND STRUC.
6. MINIMUM R-VALUES ARE BASED ON 2015 IECC TABLE C402.13. PROJECT INSUL R-VALUES ARE BASED ON THE SPECIFIED B.OD. AS FOLLOWS:
   1" RIGID MINERAL WOOL = R-4.2

2 / A-15 EXTERIOR WALL TYPES
1/2" = 1'-0"

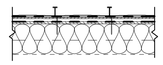
INTERIOR PARTITION TYPES

TYPE	DESCRIPTION	HEIGHT	DETAIL TO 9'-4" AFF	DETAIL ABOVE 9'-4" AFF	SPECIFICATION
1A	4" GFCMU PARTITION WITH TILE ONE SIDE	9'-4"		——	NOM 4" GFCMU WITH 3/8" MORTAR JOINTS AND TILE ONE SIDE
1B	4" CMU PARTITION WITH TILE BOTH SIDES	9'-4"		——	NOM 4" CMU WITH 3/8" MORTAR, JOINTS AND TILE BOTH SIDES
2A	8" GFCMU PARTITION	TO UNDERSIDE OF DECK UNO			NOM 8" GFCMU TO 9'-4" AFF, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS BOTH SIDES. STUD WALL FINISHES TO BE FLUSH WITH GFCMU WALL BELOW
2B	8" GFCMU PARTITION	TO UNDERSIDE OF DECK UNO			NOM 8" GFCMU TO 9'-4" AFF, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS ONE SIDE, 1/2" PLYWOOD OTHER SIDE. STUD WALL FINISHES TO BE FLUSH WITH GFCMU WALL BELOW.
2C	8" GFCMU PARTITION WITH TILE ONE SIDE	TO UNDERSIDE OF DECK UNO			NOM 8" GFCMU WITH TILE TO 9'-4" AFF ONE SIDE, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS BOTH SIDES. STUD WALL FINISHES TO BE FLUSH WITH GFCMU WALL BELOW.
2D	8" CMU PARTITION WITH TILE ONE SIDE	TO UNDERSIDE OF DECK UNO			NOM 8" CMU WITH TILE TO 9'-4" AFF ONE SIDE, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS TILE SIDE, 1/2" PLYWOOD OTHER SIDE. STUD WALL FINISHES TO BE FLUSH WITH CMU WALL BELOW.

NOTES:
1. WHERE WALL TILE IS INDICATED ON THE FINISH SCHEDULE, PROVIDE CEMENT BACKERBOARD SUBSTRATE.

3 / A-15 PARTITION TYPES
1/2" = 1'-0"

ROOF TYPES

TYPE	DESCRIPTION	CODE-REQ'D INSUL MIN R-VALUE	CALCULATED U-VALUE	DETAIL	SPECIFICATION
R1	SLOPED ASPHALT SHINGLE	N/A			ASPHALT SHINGLE ROOF SYSTEM, UNDERLAYMENT AND EAVE PROTECTION, 3/4" EXT GRADE-PLYWD
R2	STANDING SEAM MTL ROOF	MIN R-38			STANDING SEAM MTL ROOF SYSTEM, ROOF UNDERLAYMENT (ON BOTH LAYERS OF PLYWD), 1/2" EXT GRADE PLYWD ON SLEEPERS TO PROVIDE 1" AIR SPACE, 3/4" EXT GRADE PLYWD, 9.5" BATT INSULATION BETWEEN WOOD TRUSSES HUNG ON INSULATION MESH

GENERAL ROOF NOTES:
1. SEE STRUC DWGS FOR ROOF DECK & STRUCTURE.
2. SEE ROOF PLAN DWG AND A-26 SERIES DWGS FOR ADDITIONAL DETAILS.
3. MINIMUM INSUL R-VALUES ARE BASED ON 2015 TABLE C402.1.3.
   PROJECT INSUL R-VALUES ARE BASED ON THE SPECIFIED B.O.D. AS FOLLOWS:
   MINERAL WOOL BATT = R4 / INCH

1 / A-15 ROOF TYPES
1/2" = 1'-0"

DOOR SCHEDULE - ORGANIZED GROUP TENT CAMPING

DOOR NO.	ROOM	NEW	EXT	DOOR TYPE	DOOR MAT	DOOR RATING	DOOR WIDTH	DOOR HEIGHT	DOOR FIN	DOOR GLAZING	FRAME TYPE	FRAME MAT	FRAME FIN	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HARDWARE	NOTES
B100	MEN	•	•	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6B / A24	6A / A24		5.0	
B101	UTILITY	•	•	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6B / A24	6A / A24		1.0	
B102	WOMEN	•	•	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6B / A24	6A / A24		5.0	
B103	RESTROOM	•	•	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6B / A24	6A / A24		3.0	*CONCEALED MOUNTING BRACKET AT STONE WALL

FINISH SCHEDULE - ORGANIZED GROUP TENT CAMPING

ROOM NO	ROOM NAME	FLOOR MAT	FLOOR FIN	BASE MAT	BASE FIN	BASE HT	NORTH	NORTH FIN	EAST	EAST FIN	SOUTH	SOUTH FIN	WEST	WEST FIN	CEILING MAT	CEILING FIN	NOTES
B100	MEN	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU / VINYL	FF	CMU	FF	CMU / VINYL	FF	VINYL	FF	
B101	UTILITY	CONC	SEAL	-	-	-	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	EXP	-	
B102	WOMEN	CONC	EPOXY	EPOXY	FF	4"	CMU	FF	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	VINYL	FF	
B103	RESTROOM	CONC	EPOXY	EPOXY	FF	4"	CMU	FF	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	VINYL	FF	

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD V. WOODWARD No. RA-015170X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 ■■■■■ 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

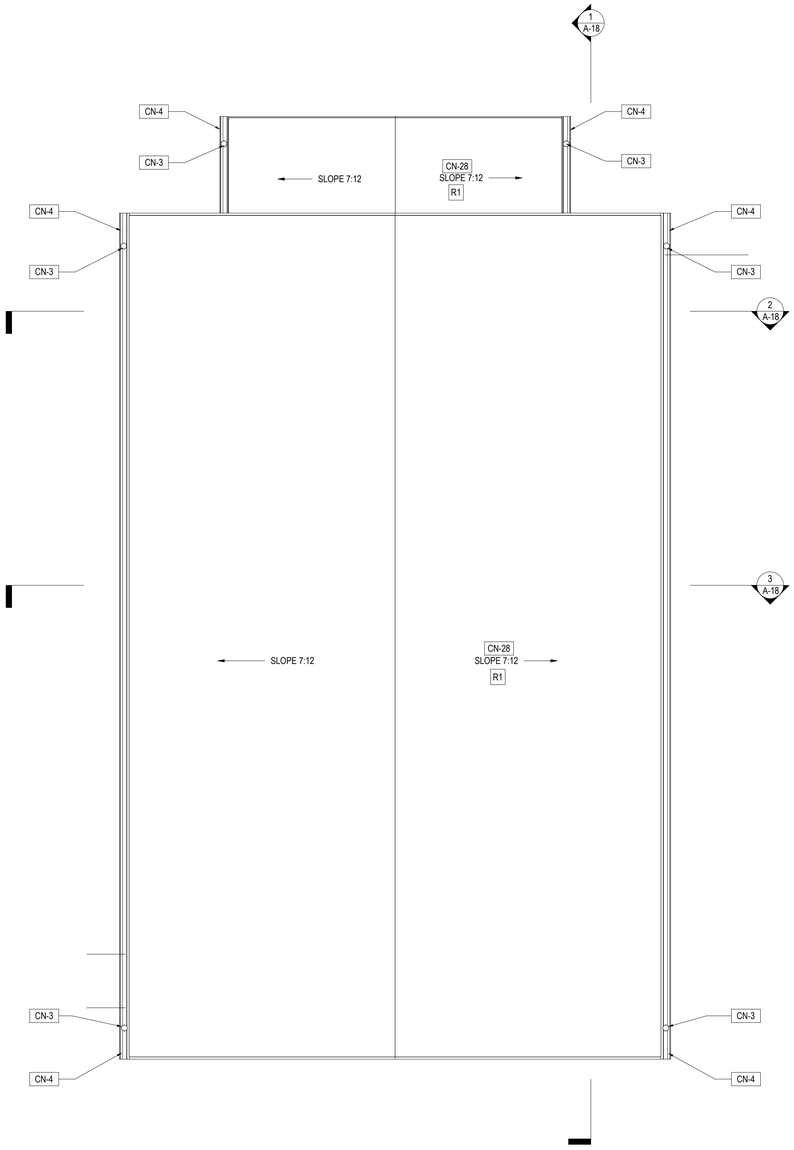
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP TENT CAMPING – SCHEDULES AND TYPES

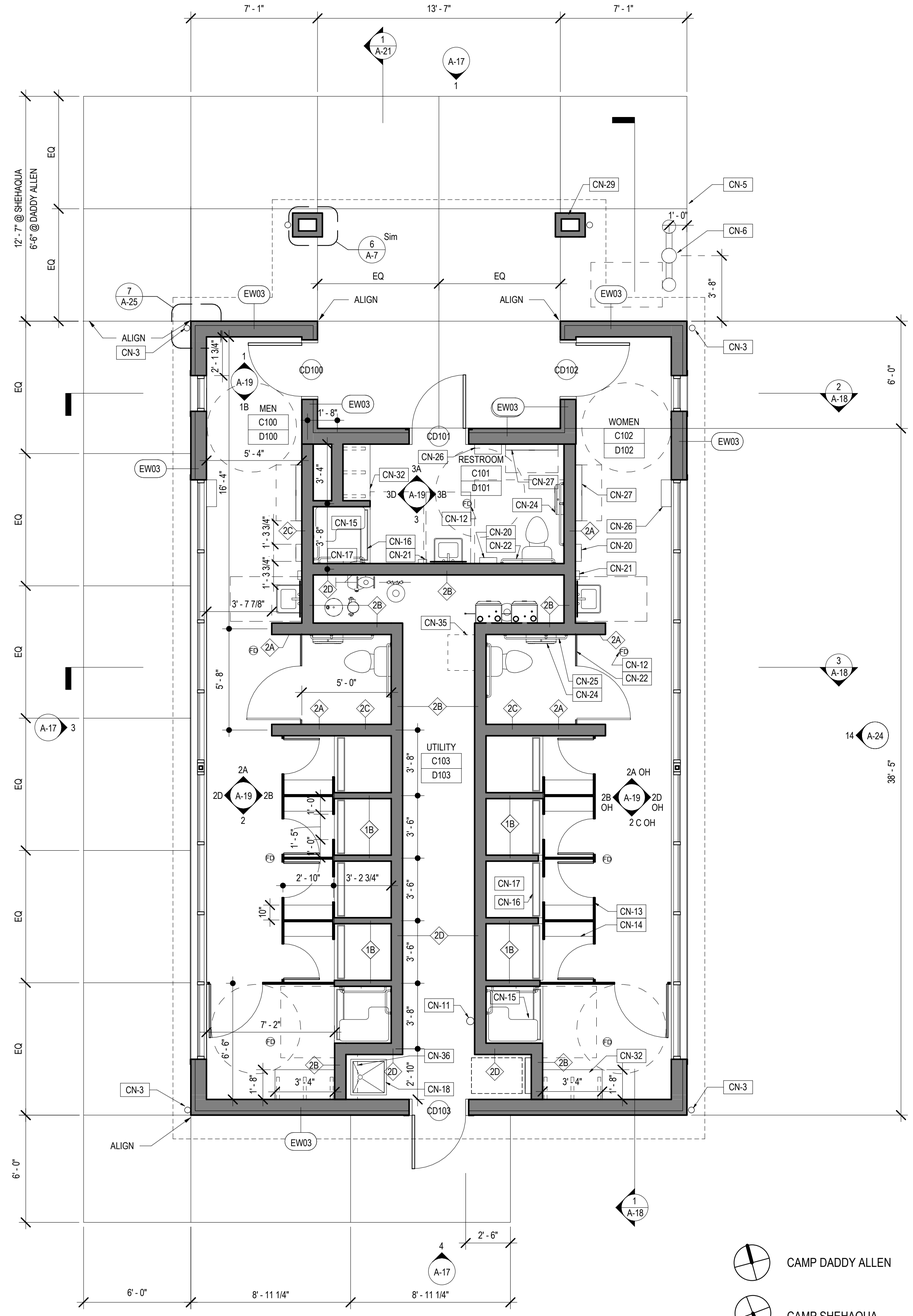
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–15
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

69 OF 144



2 A-16 OGC TYPICAL ROOF PLAN
1/4" = 1'-0"



1 A-16 OGC TYPICAL - FLOOR PLAN
1/4" = 1'-0"

NOTE: 'C' ROOM NUMBER PREFIX REFERS TO CAMP DADDY ALLEN. 'D' ROOM NUMBER PREFIX REFERS TO CAMP SHEHAQUA

CAMP DADDY ALLEN

CAMP SHEHAQUA

GENERAL NOTES:

1. HVAC EQUIPMENT IS PROVIDED BY THE .2 CONTRACT.
2. PLUMBING FIXTURES ARE PROVIDED BY THE .3 CONTRACT.
3. LIGHT FIXTURES ARE PROVIDED BY THE .4 CONTRACT.
4. ALL EXPOSED SURFACES OF GFCMU BLOCKS IN OCCUPIED SPACES SHALL BE GROUND AND FINISHED.

CONSTRUCTION NOTES (CN)

CN-1 STANDING SEAM METAL ROOF (R2)
CN-2 TUBULAR SKYLIGHT
CN-3 METAL DOWNSPOUT
CN-4 METAL GUTTER
CN-5 CONCRETE SIDEWALK. SEE CIVIL DWGS.
CN-6 WATER FOUNTAIN. SEE MEP DWGS.
CN-7 DISHWASHING SINK
CN-8 EXTERIOR COUNTER
CN-9 STONE VENEER BENCH WITH CAST STONE SEAT
CN-10 NOT USED
CN-11 WALL MOUNTED FIRE EXTINGUISHER
CN-12 FLOOR DRAIN. SEE MEP DWGS.
CN-13 CHANGING AREA PARTITION
CN-14 BENCH BY PARTITION MANUFACTURER, HOOK (TYPE I) MOUNTED ABOVE
CN-15 ADA FOLDING SHOWER SEAT
CN-16 TRENCH DRAIN. SEE MEP DWGS.
CN-17 EPOXY FLOOR. SLOPE TO DRAIN.
CN-18 MOP SINK
CN-19 QUARTZ COUNTERTOP
CN-20 ELECTRIC HAND DRYER
CN-21 SOAP DISPENSER
CN-22 TOILET PARTITION
CN-23 URINAL SCREEN
CN-24 TOILET PAPER DISPENSER
CN-25 ADA GRAB BARS
CN-26 WASTE RECEPTACLE
CN-27 BABY CHANGING STATION
CN-28 ASPHALT SHINGLE ROOF (R1)
CN-29 STONE VENEER COLUMN
CN-30 WOOD COLUMNS WITH STONE VENEER BASE
CN-31 SNOW GUARD
CN-32 HDPE WALL MOUNTED BENCH
CN-33 ROOFLINE ABOVE
CN-34 SEE MEP DRAWINGS FOR EQUIPMENT IN UTILITY ROOM
CN-35 CLEAR FLOOR SPACE FOR LADDER
CN-36 UTILITY SHELF

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA THOMAS WOODWARD NO. RA035924

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

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0 1
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CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP CAMPING – TYPICAL PLANS

DRAWN BY M STRENSKI	DATE 06/17/2022	DRAWING No. A-16
CHECKED BY T WOODWARD	SCALE AS NOTED	70 OF 144

BASE BID #2 - CAMP SHEHAQUA
BASE BID #3 - CAMP DADDY ALLEN

FILE PATH: N:\21-History Proj\01 Architecture\01_Pre\History Res State Park Latrine Improvements - Thiebaud.dwg
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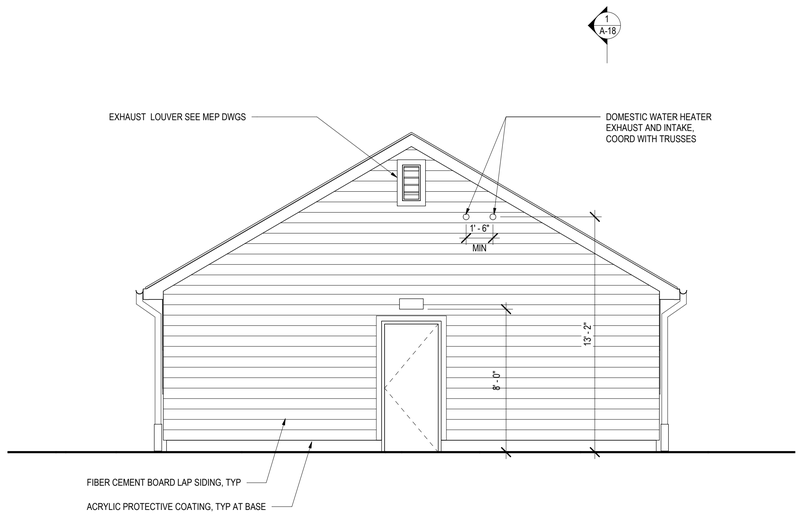
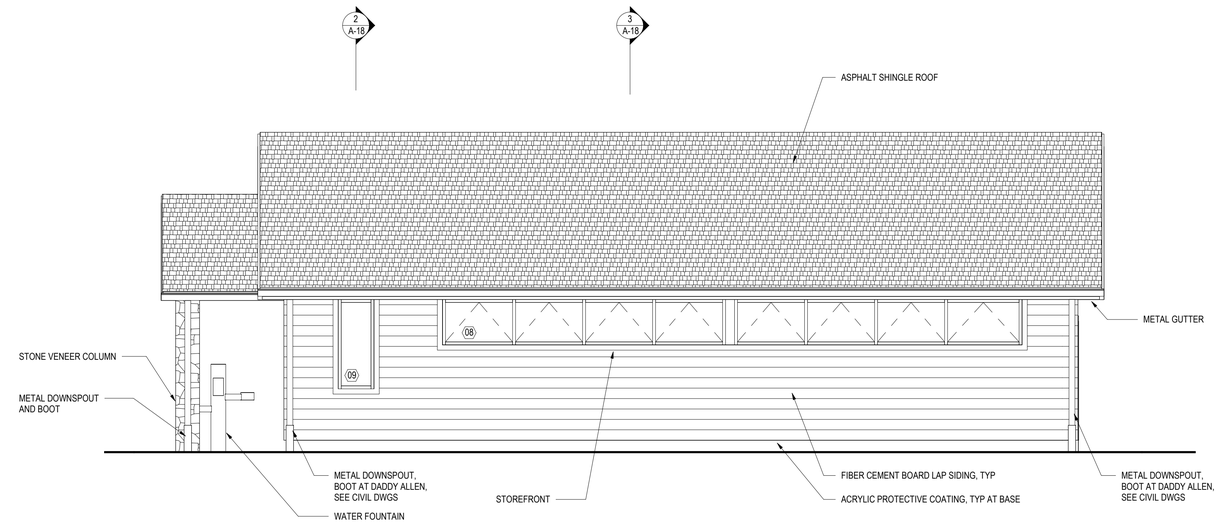
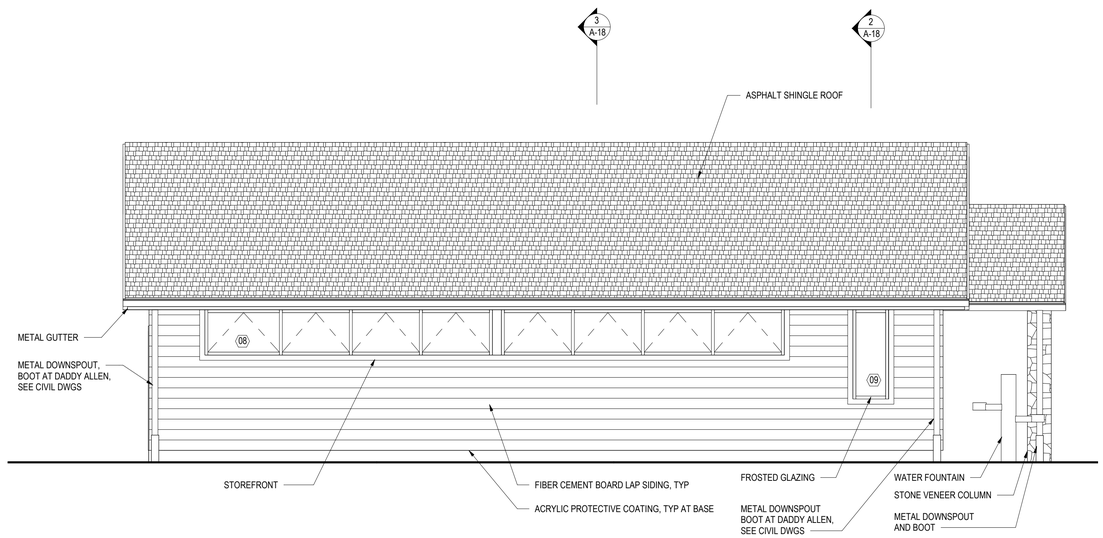


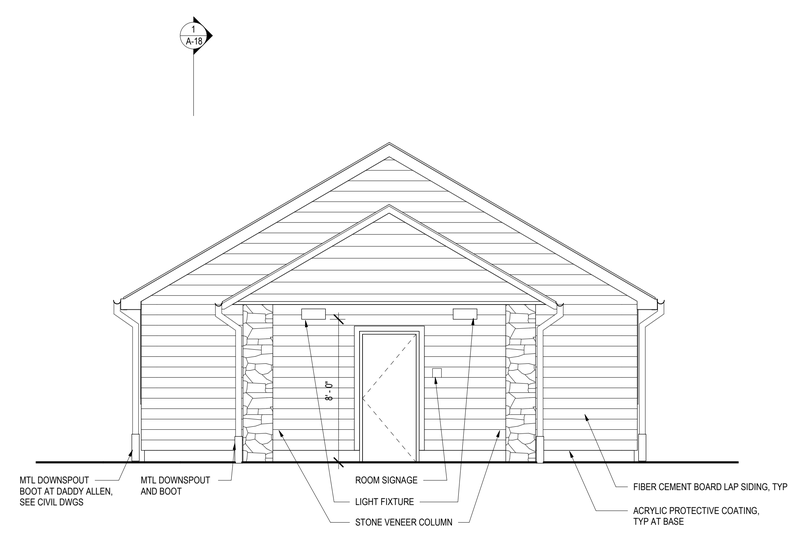
4 A-17 REAR ELEVATION
1/4" = 1'-0"



3 A-17 SIDE ELEVATION
1/4" = 1'-0"



2 A-17 SIDE ELEVATION
1/4" = 1'-0"



1 A-17 FRONT ELEVATION
1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT
PENNSYLVANIA
TODD WOODWARD No. RA016186X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP CAMPING – TYPICAL EXTERIOR ELEVATIONS

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
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IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

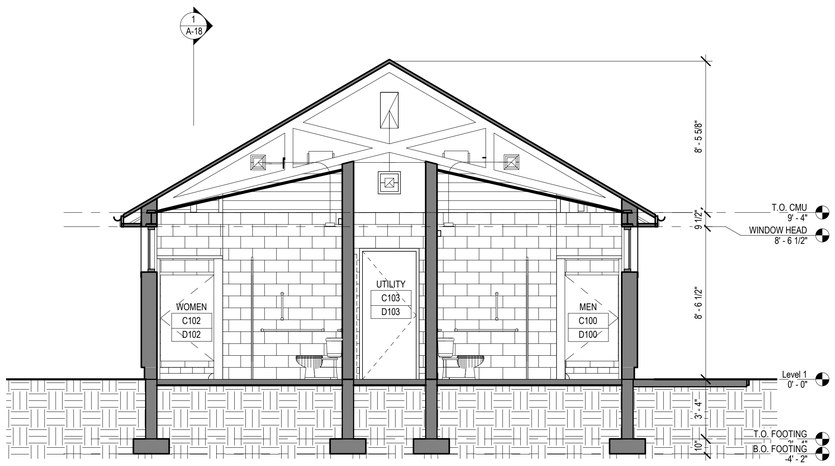
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–17
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

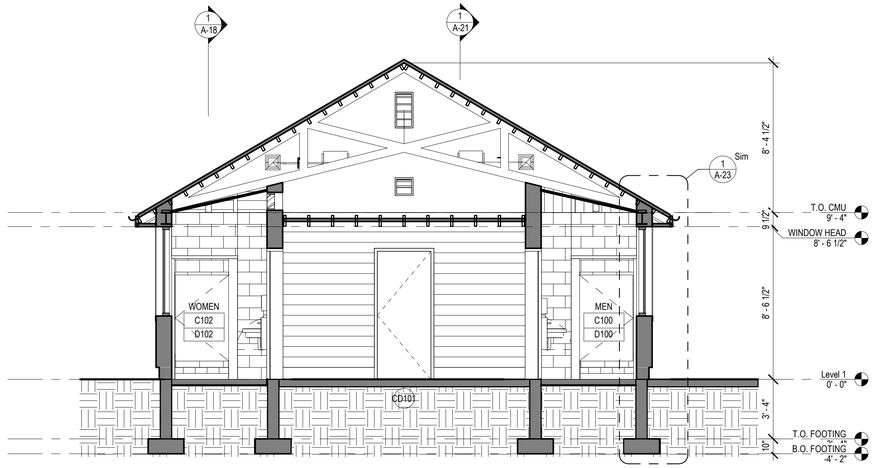
71 OF 144

BASE BID #2 - CAMP SHEHAQUA
BASE BID #3 - CAMP DADDY ALLEN

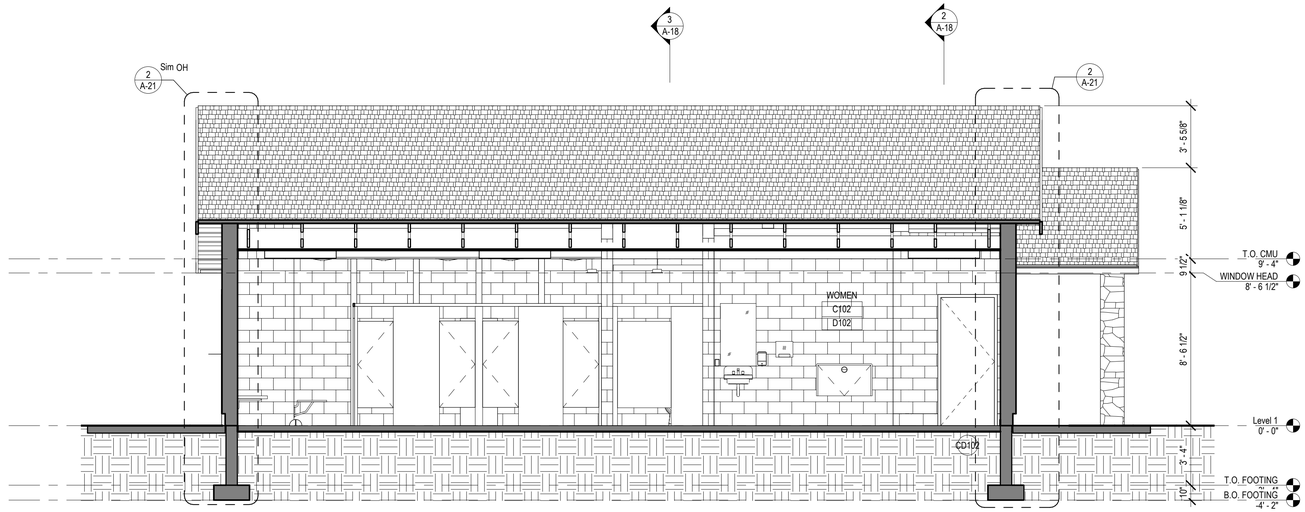
PLE PATH: I:\721 Hickory Run\01 Architect\01 Rev\Hickory Run_Bldg Perm Latrine Improvements – Titleblock.dwg
LAST SAVED: 2020.06.04 12:14 PM PLOTTED: 2016.11.08 10:35 AM PLOTTED BY: Megan M. Stencel



3 A-18 CROSS SECTION 2
1/4" = 1'-0"



2 A-18 CROSS SECTION 1
1/4" = 1'-0"



1 A-18 LONGITUDINAL SECTION
1/4" = 1'-0"

NOTE: 'C' ROOM NUMBER PREFIX REFERS TO CAMP DADDY ALLEN. 'D' ROOM NUMBER PREFIX REFERS TO CAMP SHEHAQUA

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA THOMAS WOODWARD No. RA016180X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

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0 ▬▬ 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS

DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP CAMPING – BUILDING SECTIONS

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–18
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

72 OF 144

BASE BID #2 - CAMP SHEHAQUA
BASE BID #3 - CAMP DADDY ALLEN

FILE PATH: I:\721 Hickory Run\01 Architect\01 Arch\Hickory Run State Park Latrine Improvements – Thetrocks.dwg
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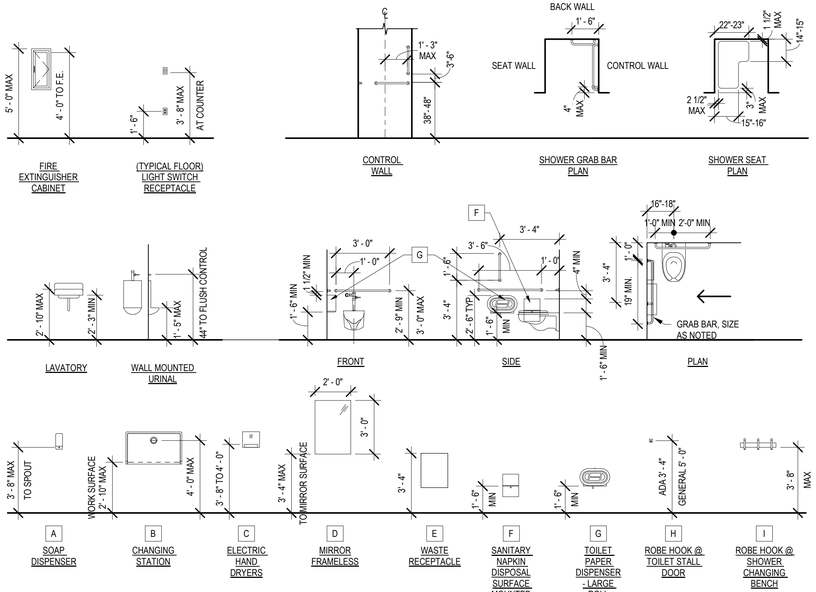
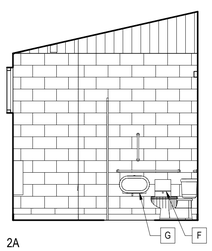
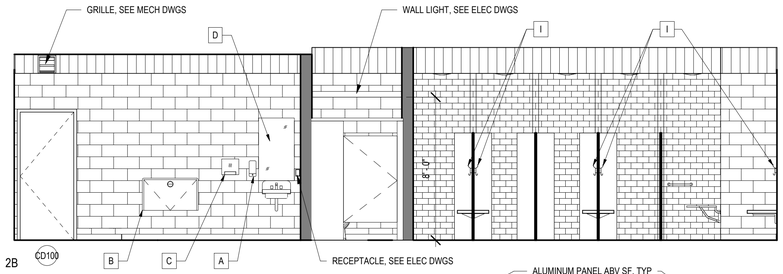
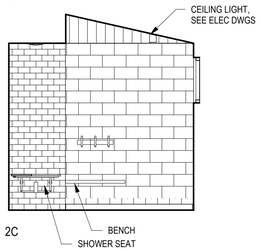


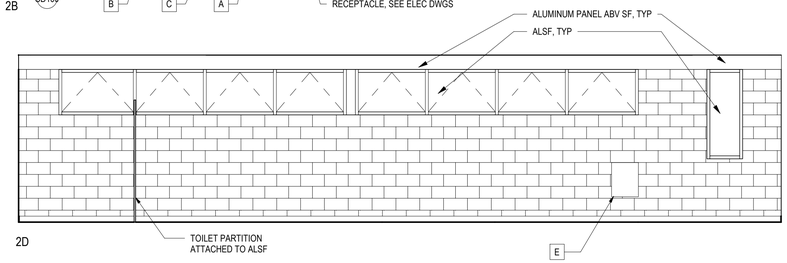
TYPICAL MOUNTING HEIGHTS

1/4" = 1'-0"





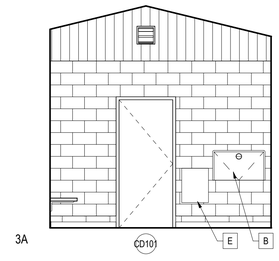


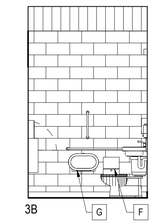


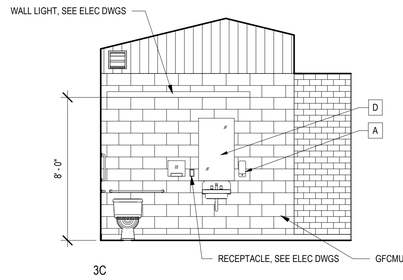
2 A-19 INTERIOR ELEVATIONS - C/D100 MEN/C/D102 WOMEN MAIN AREA

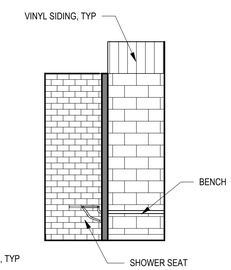
1/4" = 1'-0"

NOTE: 'C' ROOM NUMBER PREFIX REFERS TO CAMP DADDY ALLEN. 'D' ROOM NUMBER PREFIX REFERS TO CAMP SHEHAQUA





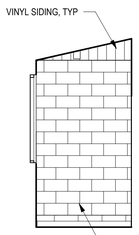


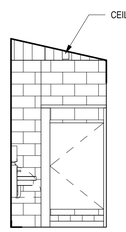


3 A-19 INTERIOR ELEVATIONS - C/D101 RESTROOM

1/4" = 1'-0"

NOTE: 'C' ROOM NUMBER PREFIX REFERS TO CAMP DADDY ALLEN. 'D' ROOM NUMBER PREFIX REFERS TO CAMP SHEHAQUA





1 A-19 INT ELEVATIONS - C/D100 MEN/C/D102 WOMEN ENTRY AREA

1/4" = 1'-0"

NOTE: 'C' ROOM NUMBER PREFIX REFERS TO CAMP DADDY ALLEN. 'D' ROOM NUMBER PREFIX REFERS TO CAMP SHEHAQUA

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA WOODWARD No. RA038104

03/05/2021

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

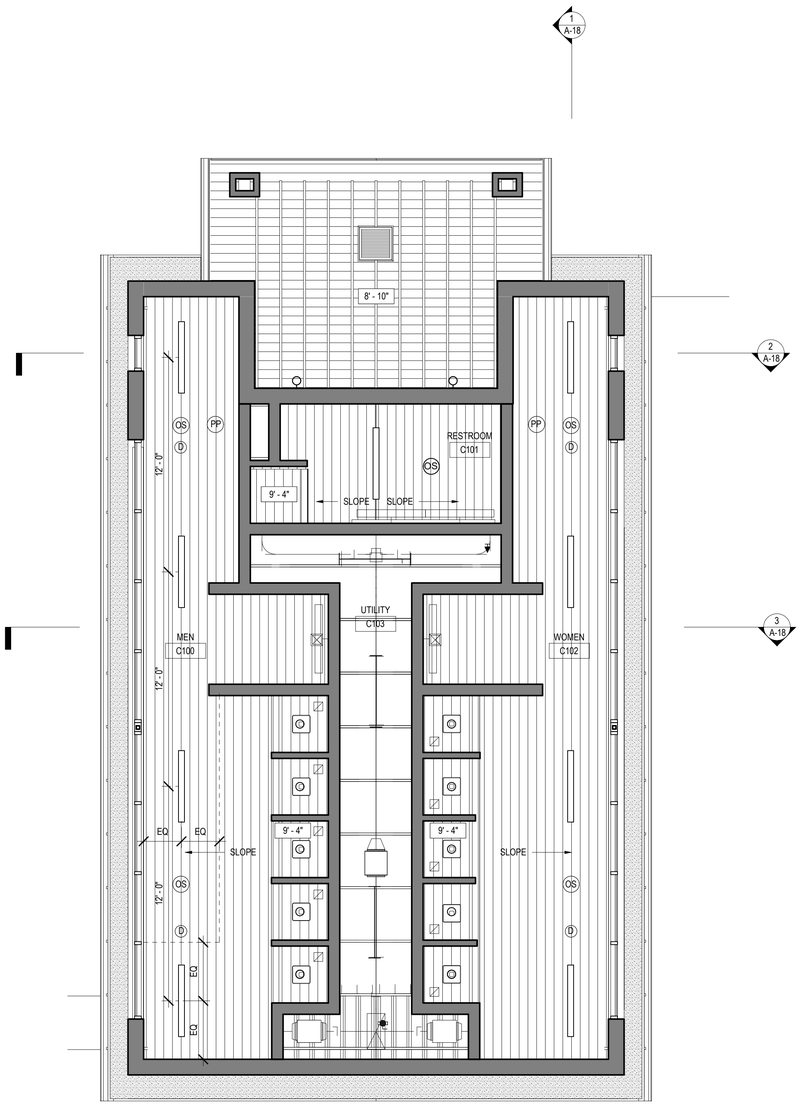
ORGANIZED GROUP CAMPING - INTERIOR ELEVATIONS

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A-19
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

73 OF 144

BASE BID #2 - CAMP SHEHAQUA
BASE BID #3 - CAMP DADDY ALLEN

FILE PATH: J:\721_History Park\01 Arch\pgs\01_Pa\Hickory Run State Park Latrine Improvements - Thickness.dwg
LAST SAVED: 2022.06.14 12:14 PM PLOTTED: 2016.11.08 10:35 AM PLOTTED BY: Megan M. Sherski



1 / A-20 OGC - SHEHAQUA / DADDY ALLEN
1/4" = 1'-0"

RCP LEGEND

- 4' x 4" SURFACED MOUNTED LED LIGHT
- LED SHOWER LIGHT
- EMERGENCY LIGHT
- WALL MOUNTED LED UP/DOWN LIGHT
- BUILDING MOUNTED EXTERIOR LED LIGHT
- LED STRIP LIGHT
- RECESSED EXTERIOR CAN LIGHT
- OCCUPANCY SENSOR
- OCCUPANCY SENSOR
- POWER PACK
- TUBULAR SKYLIGHT
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- VINYL PANELING
- FIBER CEMENT SOFFIT PANELS

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA-016749-X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

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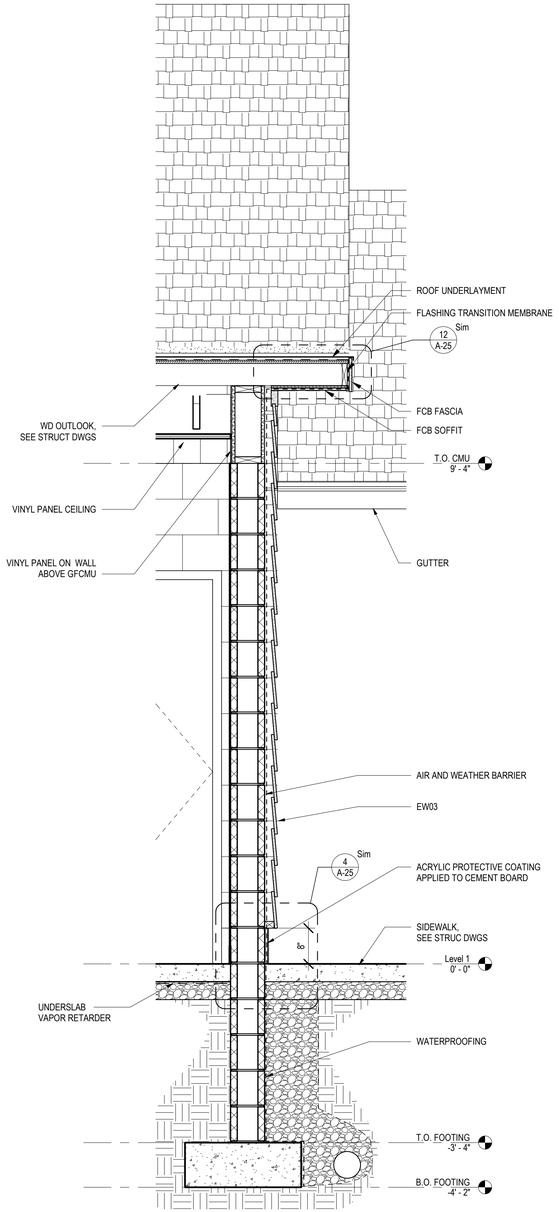
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP CAMPING – REFLECTED CEILING PLAN

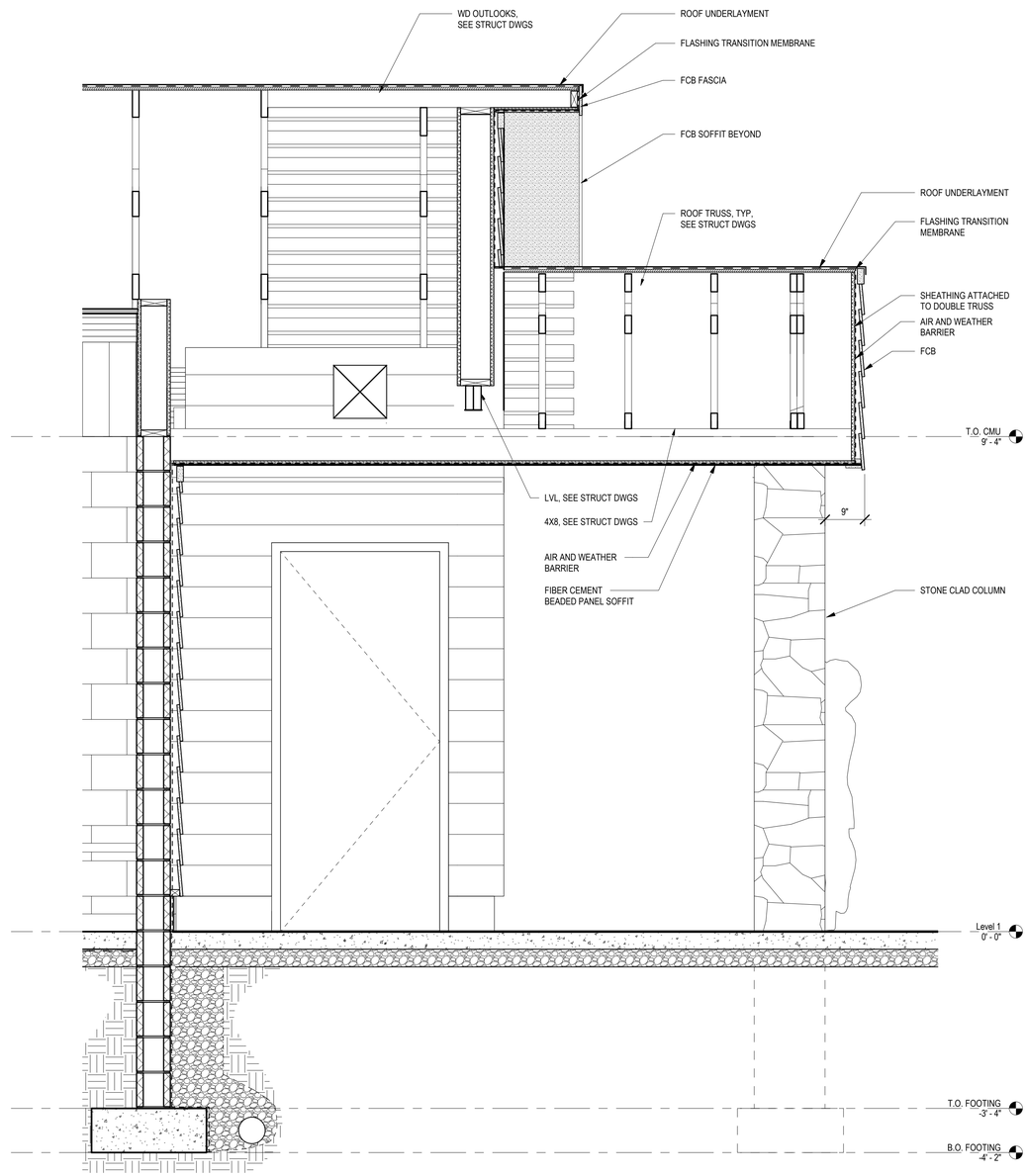
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A-20
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

BASE BID #2 - CAMP SHEHAQUA
BASE BID #3 - CAMP DADDY ALLEN



2 A-21 WALL SECTION - OGC GABLE ENTRY SIDE
3/4" = 1'-0"



1 A-21 WALL SECTION - OGC ENTRY PORCH
3/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
TIMOTHY WOODWARD No. RA429804

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ORGANIZED GROUP CAMPING - WALL SECTIONS

VERIFY SCALE

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ON ORIGINAL DRAWING:
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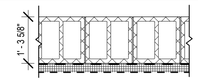
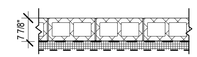
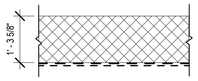
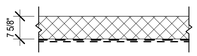
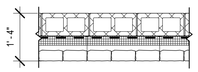
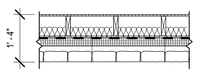
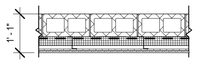
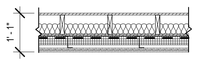
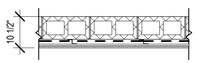
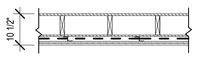
DRAWN BY	DATE
M STRENSKI	06/17/2022
CHECKED BY	SCALE
T WOODWARD	AS NOTED

DRAWING No.
A-21
75 OF 144

BASE BID #2 - CAMP SHEHAQUA
BASE BID #3 - CAMP DADDY ALLEN

FILE PATH: J:\721-Hickory Run\01 Architecture\01_Pen\Hickory Run State Park Latrine Improvements - Titleblock.dwg
LAST SAVED: 2020/6/04 12:14 PM PLOTTED: 2016/11/08 10:35 AM PLOTTED BY: Megan M. Strenski

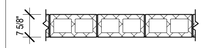
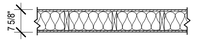
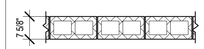
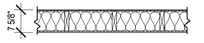
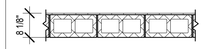
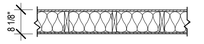
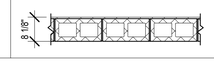
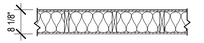
EXTERIOR WALL TYPES

TYPE	DESCRIPTION	CODE REQ'D INSUL MIN. R-VALUE	CALCULATED U-VALUE	DETAIL	SPECIFICATION
FW01	16" CMU FOUNDATION WALL	R-15 FOR 36" BELOW R-15 ci			NOM 16" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, 3" RIGID MINERAL WOOL INSUL, DRAINAGE BOARD AND FILTER FABRIC.
FW02	8" CMU FOUNDATION WALL	R-15 FOR 36" BELOW R-15 ci			NOM 8" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, 3" RIGID MINERAL WOOL INSUL, DRAINAGE BOARD AND FILTER FABRIC.
FW03	16" CMU FOUNDATION WALL	N/A			NOM 16" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, DRAINAGE BOARD AND FILTER FABRIC.
FW04	8" CMU FOUNDATION WALL	N/A			NOM 8" CMU W/ 3/8" MORTAR JOINTS, WATERPROOFING, DRAINAGE BOARD AND FILTER FABRIC.
EW01	16" STONE VENEER MASONRY CAVITY WALL (UP TO 9'-4")	MIN R-11.4 ci R- 12.6ci			NOM 4" STONE VENEER TIED BACK TO GFCMU, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID-APPLIED AIR AND WEATHER BARRIER, NOM 8" GFCMU
	16" WOOD FRAMED STONE VENEER RAINSCREEN WALL (ABOVE 9'-4")	MIN R-13 + R-3.8ci OR R-20 R-27			NOM 4" STONE VENEER TIED BACK TO SHEATHING, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID-APPLIED AIR AND WEATHER BARRIER, 1/2" EXT GYPSUM SHEATHING, 8" WOOD STUDS, 3.5" STONE WOOL BATT INSULATION, 5/8" PLYWOOD, VINYL FINISH SIDE WHERE EXPOSED TO INTERIOR, VINYL TO BE FLUSH WITH GFCMU BELOW
EW02	12" GFCMU FIBER CEMENT RAINSCREEN WALL (UP TO 9'-4")	MIN R-11.4 ci R-12.6 ci			FIBER CEMENT CLADDING, THERMALLY BROKEN RAINSCREEN SUB-FRAMING, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID -APPLIED AIR AND WEATHER BARRIER, NOM 8" GFCMU
	12" WOOD FRAMED FIBER CEMENT RAINSCREEN WALL (ABOVE 9'-4")	MIN R-13 + R-3.8ci OR R-20 R-27			FIBER CEMENT CLADDING, THERMALLY BROKEN RAINSCREEN SUB-FRAMING, MIN 1" AIR SPACE, 3" RIGID MINERAL WOOL INSUL, FLUID -APPLIED AIR AND WEATHER BARRIER, 1/2" EXT GYPSUM SHEATHING, 8" WOOD STUDS- RIPPED DOWN TO SIZE, 3.5" STONE WOOL BATT INSULATION, 5/8" PLYWOOD, VINYL FINISH SIDE WHERE EXPOSED TO INTERIOR, VINYL TO BE FLUSH WITH GFCMU BELOW
EW03	10 1/2" GFCMU FIBER CEMENT RAINSCREEN WALL (UP TO 9'-4")	N/A			FIBER CEMENT CLADDING, RAINSCREEN SUB-FRAMING, 2" AIR SPACE, FLUID -APPLIED AIR AND WEATHER BARRIER, NOM 8" GFCMU
	10 1/2" WOOD FRAMED FIBER CEMENT RAINSCREEN WALL (ABOVE 9'-4")	N/A			FIBER CEMENT CLADDING, RAINSCREEN SUB-FRAMING, 2 1/2" AIR SPACE, FLUID -APPLIED AIR AND WEATHER BARRIER, 1/2" EXT GYPSUM SHEATHING, WOOD STUDS, 5/8" PLYWOOD, VINYL FINISH SIDE WHERE EXPOSED TO INTERIOR

NOTES:
1. REFER TO STRUCTURAL DRAWINGS FOR STUD SPACING AT EXTERIOR SHEAR WALLS.
2. REFER TO STRUC DWGS FOR MASONRY / REINFORCEMENT REQUIREMENTS AND DETAILS.
3. ALL EXTERIOR MASONRY WALLS TO HAVE THERMALLY BROKEN TIES / ANCHORS.
4. SPACE RAINSCREEN SUB-FRAMING PER MFR'S REQUIREMENTS.
5. PROVIDE CONTINUOUS NON-HARDENING SEALANT AROUND PERIMETER OF INTERIOR WALL BETWEEN ADJACENT WALLS, CEILINGS, AND STRUC.
6. MINIMUM R-VALUES ARE BASED ON 2015 IECC TABLE C402.13. PROJECT INSUL R-VALUES ARE BASED ON THE SPECIFIED B.OD. AS FOLLOWS:
   1" RIGID MINERAL WOOL = R-4.2
   3.5" MINERAL WOOL BATT = R-14

2 A-22 EXTERIOR WALL TYPES
1/2" = 1'-0"

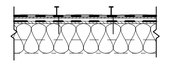
INTERIOR PARTITION TYPES

TYPE	DESCRIPTION	HEIGHT	DETAIL TO 9'-4" AFF	DETAIL ABOVE 9'-4" AFF	SPECIFICATION
1A	4" GFCMU PARTITION WITH TILE ONE SIDE	9'-4"		——	NOM 4" GFCMU WITH 3/8" MORTAR JOINTS AND TILE ONE SIDE
1B	4" CMU PARTITION WITH TILE BOTH SIDES	9'-4"		——	NOM 4" CMU WITH 3/8" MORTAR, JOINTS AND TILE BOTH SIDES
2A	8" GFCMU PARTITION	TO UNDERSIDE OF DECK UNO			NOM 8" GFCMU TO 9'-4" AFF, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS BOTH SIDES. STUD WALL FINISHES TO BE FLUSH WITH GFCMU WALL BELOW
2B	8" GFCMU PARTITION	TO UNDERSIDE OF DECK UNO			NOM 8" GFCMU TO 9'-4" AFF, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS ONE SIDE, 1/2" PLYWOOD OTHER SIDE. STUD WALL FINISHES TO BE FLUSH WITH GFCMU WALL BELOW.
2C	8" GFCMU PARTITION WITH TILE ONE SIDE	TO UNDERSIDE OF DECK UNO			NOM 8" GFCMU WITH TILE TO 9'-4" AFF ONE SIDE, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS BOTH SIDES. STUD WALL FINISHES TO BE FLUSH WITH GFCMU WALL BELOW.
2D	8" CMU PARTITION WITH TILE ONE SIDE	TO UNDERSIDE OF DECK UNO			NOM 8" CMU WITH TILE TO 9'-4" AFF ONE SIDE, ABOVE: 8" WOOD STUDS RIPPED DOWN TO SIZE, SOUND BATT INSULATION, 1/2" EXTERIOR PLYWOOD WITH VINYL SIDING PANELS TILE SIDE, 1/2" PLYWOOD OTHER SIDE. STUD WALL FINISHES TO BE FLUSH WITH CMU WALL BELOW.

NOTES:
1. WHERE WALL TILE IS INDICATED ON THE FINISH SCHEDULE, PROVIDE CEMENT BACKERBOARD SUBSTRATE.

3 A-22 PARTITION TYPES
1/2" = 1'-0"

ROOF TYPES

TYPE	DESCRIPTION	CODE-REQ'D INSUL MIN R-VALUE	CALCULATED U-VALUE	DETAIL	SPECIFICATION
R1	SLOPED ASPHALT SHINGLE	N/A			ASPHALT SHINGLE ROOF SYSTEM, UNDERLAYMENT AND EAVE PROTECTION, 3/4" EXT GRADE-PLYWD
R2	STANDING SEAM MTL ROOF	MIN R-38			STANDING SEAM MTL ROOF SYSTEM, ROOF UNDERLAYMENT (ON BOTH LAYERS OF PLYWD), 1/2" EXT GRADE PLYWD ON SLEEPERS TO PROVIDE 1" AIR SPACE, 3/4" EXT GRADE PLYWD, 9.5" BATT INSULATION BETWEEN WOOD TRUSSES HUNG ON INSULATION MESH

GENERAL ROOF NOTES:
1. SEE STRUC DWGS FOR ROOF DECK & STRUCTURE.
2. SEE ROOF PLAN DWG AND A-26 SERIES DWGS FOR ADDITIONAL DETAILS.
3. MINIMUM INSUL R-VALUES ARE BASED ON 2015 TABLE C402.1.3.
   PROJECT INSUL R-VALUES ARE BASED ON THE SPECIFIED B.O.D. AS FOLLOWS:
   MINERAL WOOL BATT = R4 / INCH

1 A-22 ROOF TYPES
1/2" = 1'-0"

DOOR SCHEDULE - TYPICAL ORGANIZED GROUP CAMPING

				DOOR							FRAME			DETAILS				
DOOR NO.	ROOM	NEW	EXT	TYPE	MAT	RATING	WIDTH	HEIGHT	FIN	GLAZING	TYPE	MAT	FIN	HEAD	JAMB	SILL	HARDWARE	NOTES
CD100	MEN	•	•	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		4.0	C = DADDY ALLEN / D = SHEHAQUA
CD101	RESTROOM	•	•	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		3.0	C = DADDY ALLEN / D = SHEHAQUA
CD102	WOMEN	•	•	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		4.0	C = DADDY ALLEN / D = SHEHAQUA
CD103	UTILITY	•	•	A	HM		3' - 0"	7' - 2"	PNT		F1	HM	PNT	6D / A24	6C / A24		1.0	C = DADDY ALLEN / D = SHEHAQUA

FINISH SCHEDULE - OGC - CAMP DADDY ALLEN

ROOM		FLOOR		BASE			NORTH		EAST		SOUTH		WEST		CEILING		
NO	NAME	MAT	FIN	MAT	FIN	HT	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	NOTES
C100	MEN	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	CMU	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
C101	RESTROOM	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
C102	WOMEN	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU	FF	CMU / VINYL	FF	CMU / VINYL	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
C103	UTILITY	CONC	SEAL	-	-	-	CMU	FF	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	FF	EXP	-	

FINISH SCHEDULE - OGC - CAMP SHEHAQUA

ROOM		FLOOR		BASE			NORTH		EAST		SOUTH		WEST		CEILING		
NO	NAME	MAT	FIN	MAT	FIN	HT	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	NOTES
D100	MEN	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU / VINYL	FF	CMU	PNT	CMU / VINYL	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
D101	RESTROOM	CONC	EPOXY	EPOXY	FF	4"	CMU / VINYL	FF	CMU / VINYL	FF	CMU / VINYL	PNT / FF	CMU / VINYL	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
D102	WOMEN	CONC	EPOXY	EPOXY	FF	4"	CMU	FF	CMU / VINYL	FF	CMU / VINYL	PNT / FF	CMU / VINYL	FF	VINYL	FF	CT ON SHOWER WALLS TO 9'-4"
D103	UTILITY	CONC	SEAL	-	-	-	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	CMU / PLYWD	FF	EXP	-	

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA016160

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ▬ 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

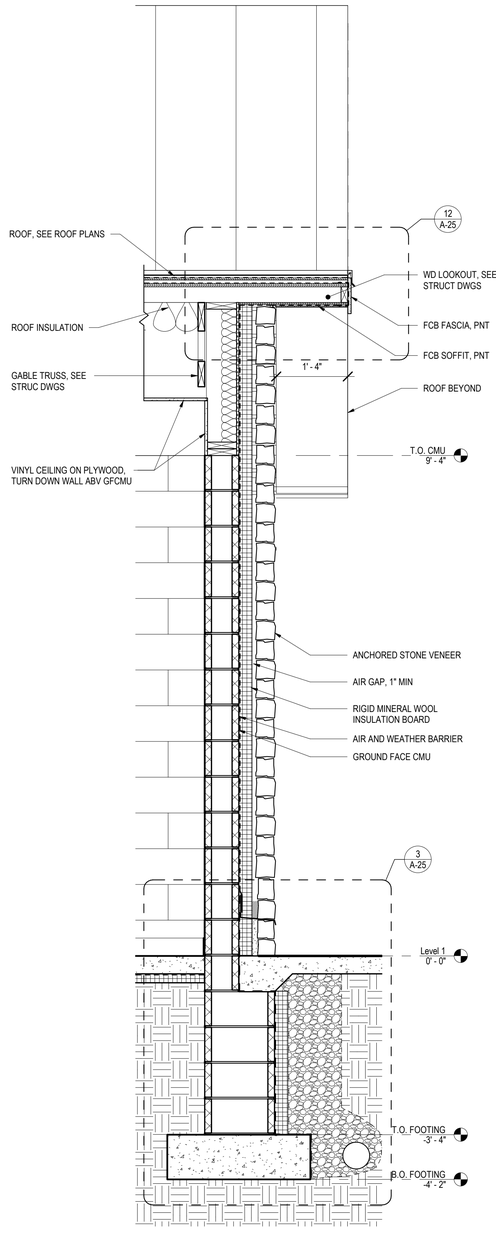
ORGANIZED GROUP CAMPING – SCHEDULES AND TYPES

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–22
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

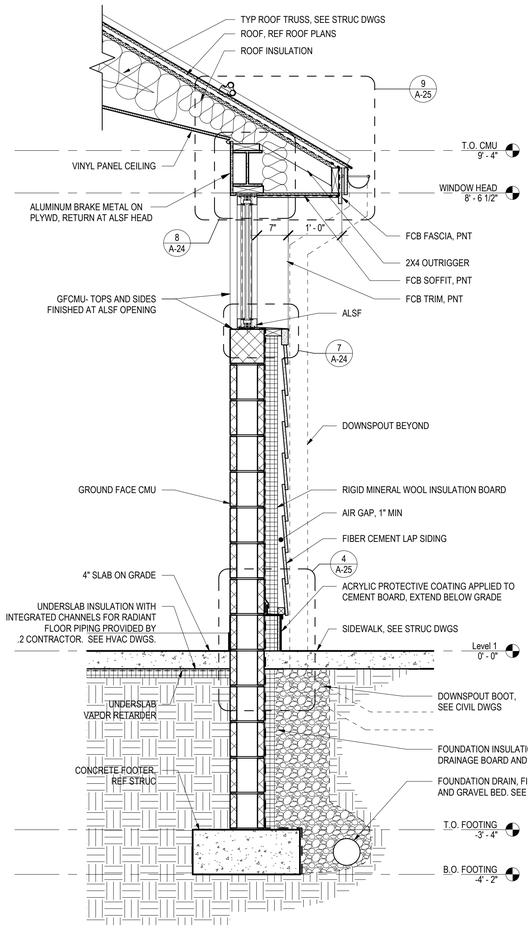
76 OF 144

BASE BID #2 - CAMP SHEHAQUA
BASE BID #3 - CAMP DADDY ALLEN

FILE PATH: N:\23_Hickory Run\01 Architect\01_Rvt\Hickory Run_State Park Latrine Improvements – Thistlewood.rvt
LAST SAVED: 2022.06.04 1:21 PM PLOTTED: 2016.11.08 10:35 AM PLOTTED BY: Megan M. Strenski



2 A-23 TYP WALL SECTION - STONE GABLE END
3/4" = 1'-0"



1 A-23 TYP WALL SECTION - FIBER CEMENT SIDING
3/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA078163

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ▬▬ 1

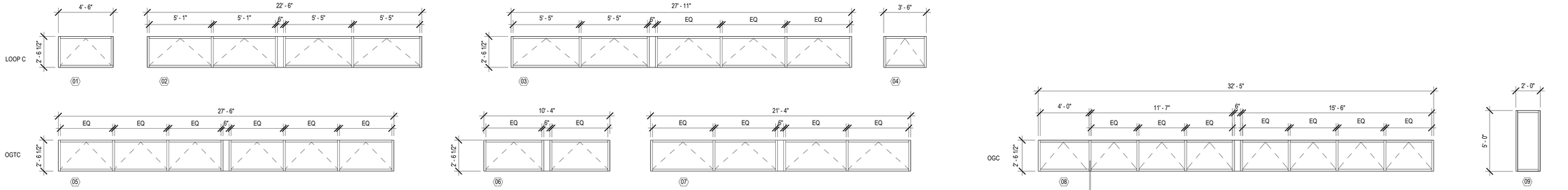
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

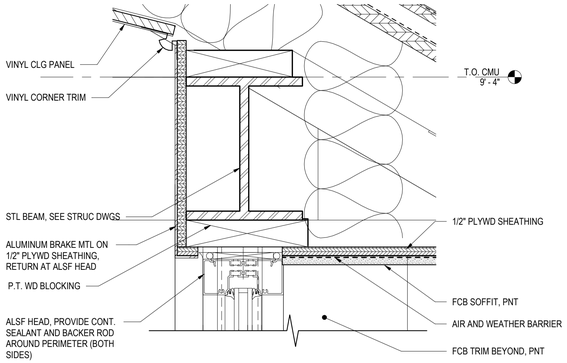
TYPICAL WALL SECTIONS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–23
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

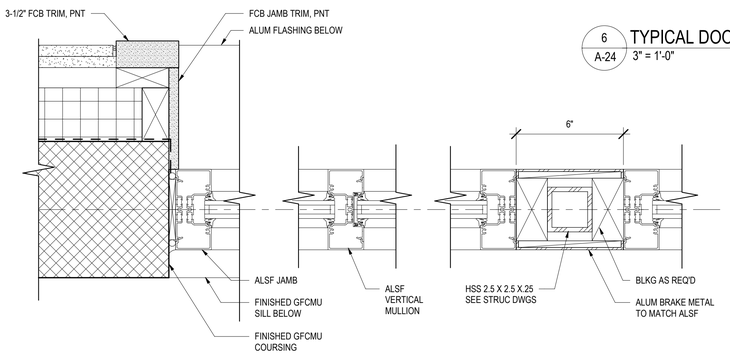


9 A-24 **WINDOW TYPES**
1/4" = 1'-0"

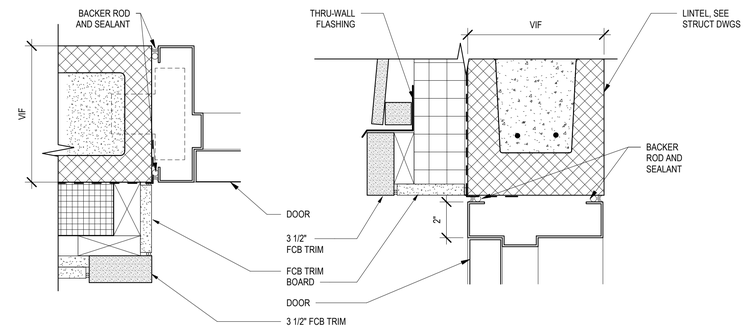


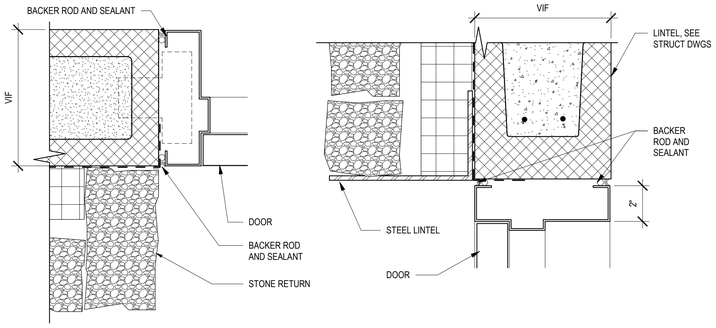
8 A-24 **TYP STOREFRONT HEAD DETAIL**
3" = 1'-0"

7 A-24 **TYP STOREFRONT SILL DETAIL**
3" = 1'-0"

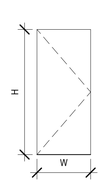


4 A-24 **TYPICAL STOREFRONT DETAILS**
3" = 1'-0"

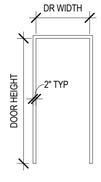




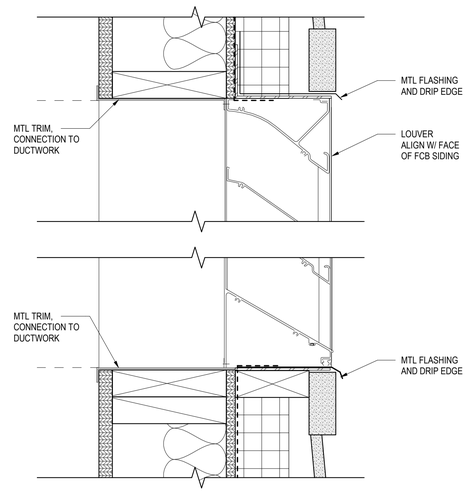
6 A-24 **TYPICAL DOOR DETAILS - CMU**
3" = 1'-0"



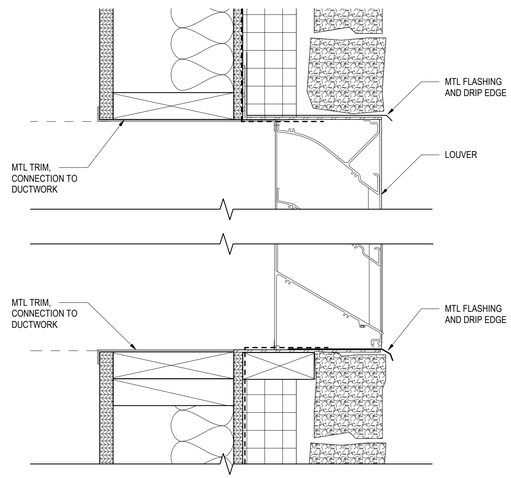
3 A-24 **DOOR TYPES**
1/4" = 1'-0"



2 A-24 **DOOR FRAME TYPES**
1/4" = 1'-0"



5 A-24 **TYP HEAD / SILL DTL - LOUVER IN FCB WALL**
3" = 1'-0"
JAMB SIMILAR



1 A-24 **TYP HEAD / SILL DTL - LOUVER IN STONE WALL**
3" = 1'-0"
JAMB SIMILAR

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TODD WOODWARD No. RA078163

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

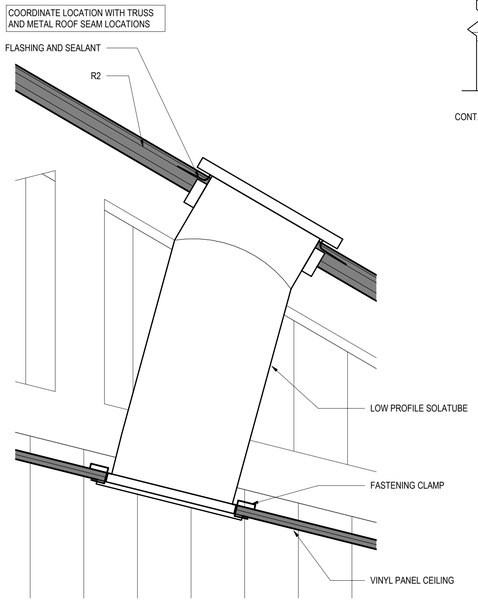
VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

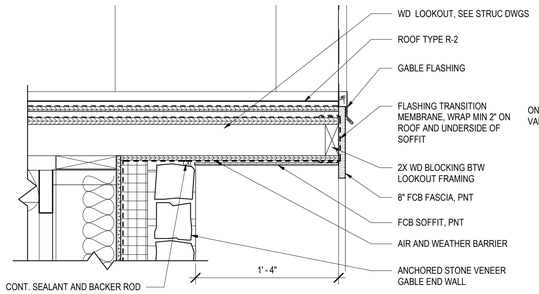
TYPICAL DOOR, WINDOW, AND MISC DETAILS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

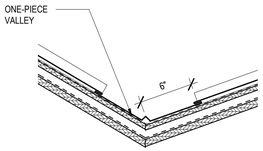
DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A-24
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	



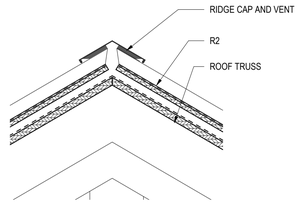
8 A-25 ROOF DETAIL - TUBULAR SKYLIGHT
1 1/2" = 1'-0"



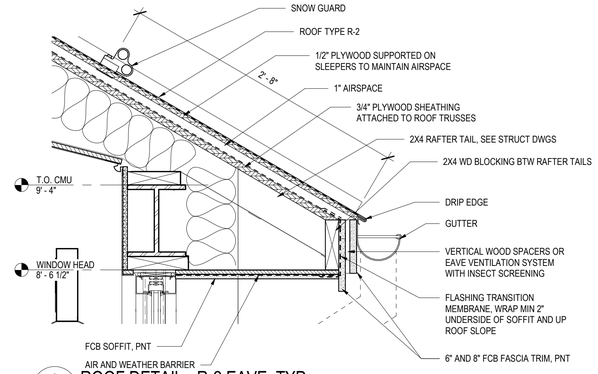
12 A-25 ROOF DETAIL - R-2 RAKE, TYP.
1 1/2" = 1'-0"



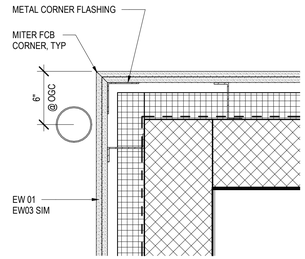
11 A-25 ROOD DETAIL - R2 VALLEY, TYP
1 1/2" = 1'-0"



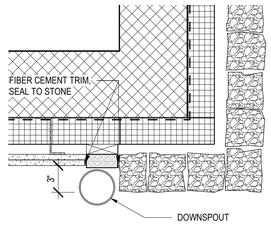
10 A-25 ROOF DETAIL - R2 RIDGE, TYP
1 1/2" = 1'-0"



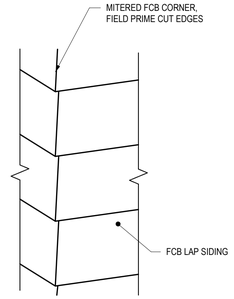
9 A-25 ROOF DETAIL - R-2 EAVE, TYP
1 1/2" = 1'-0"



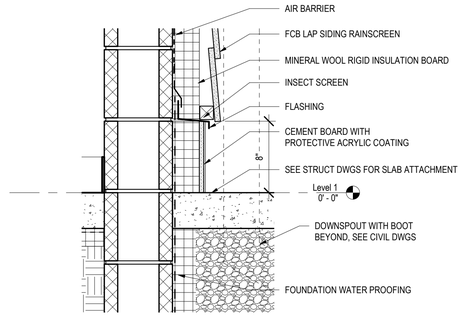
7 A-25 PLAN DETAIL - FIBER CEMENT MITERED CORNER
1 1/2" = 1'-0"
INSIDE CORNER SIM



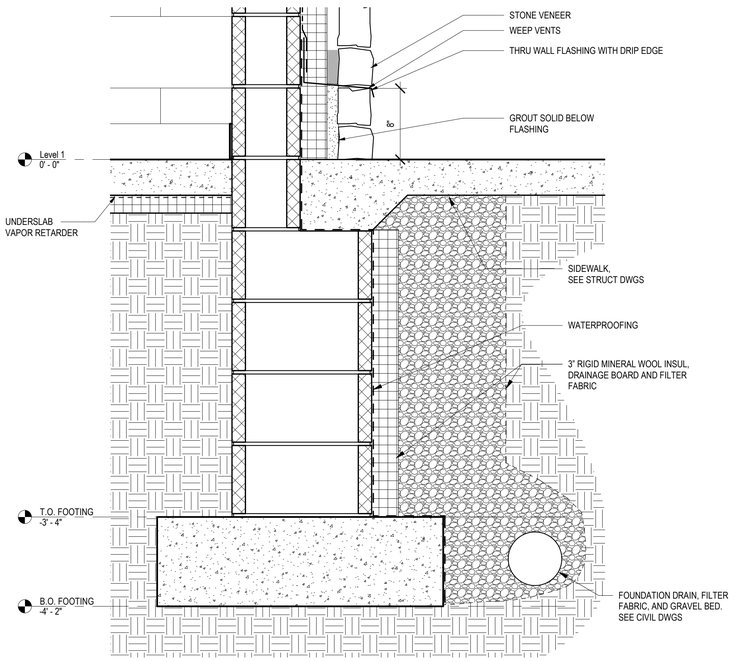
6 A-25 PLAN DETAIL - STONE AND FIBER CEMENT CORNER
1 1/2" = 1'-0"



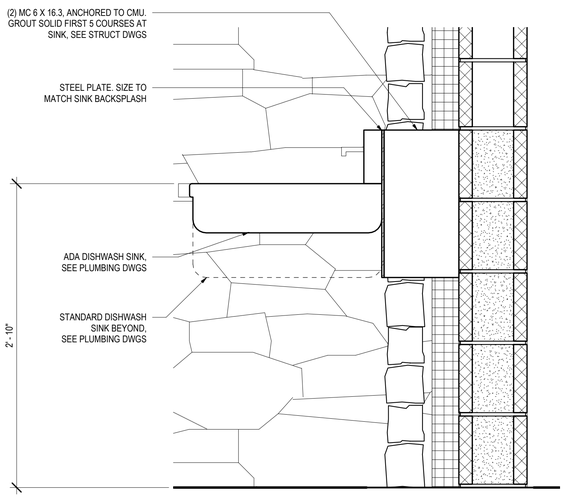
5 A-25 DETAIL - FCB CORNER
1 1/2" = 1'-0"



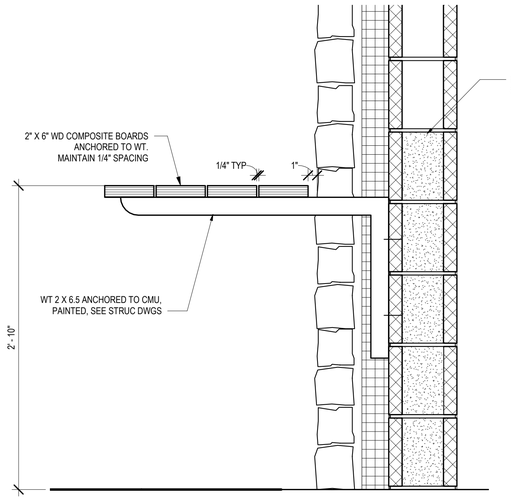
4 A-25 SECTION - FIBER CEMENT TRANSITION AT GRADE
1 1/2" = 1'-0"



3 A-25 SECTION - FOUNDATION DETAIL AT STONE WALL, TYP
1 1/2" = 1'-0"



2 A-25 SECTION - DISHWASHING SINK
1 1/2" = 1'-0"



1 A-25 SECTION- OUTDOOR COUNTER
1 1/2" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TIMOTHY WOODWARD No. RA429167

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

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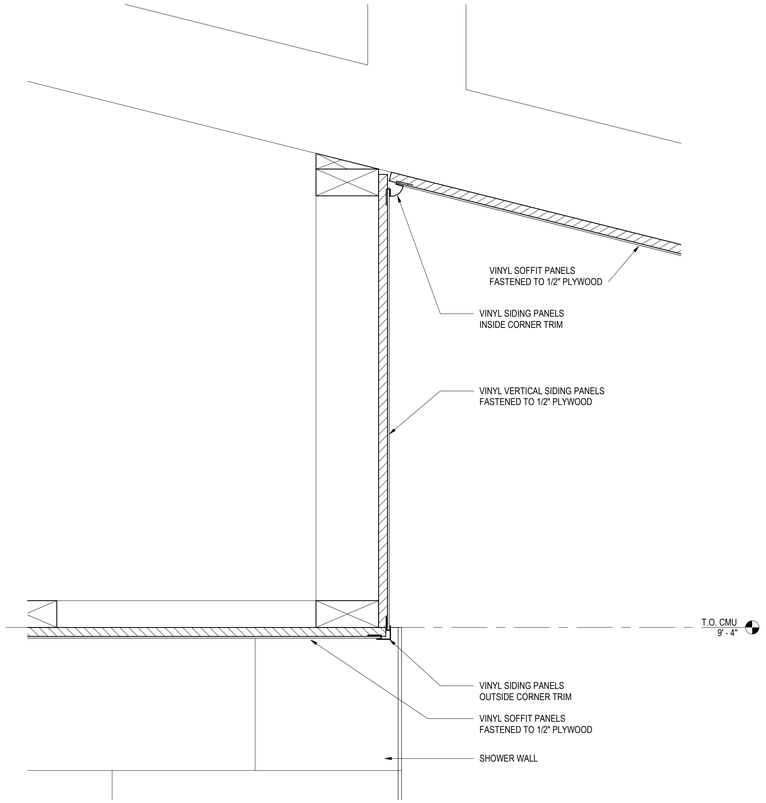
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TYPICAL EXTERIOR DETAILS

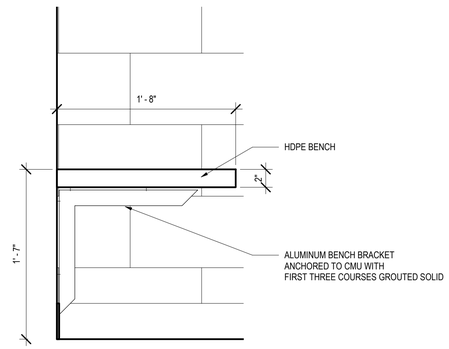
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A–25
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

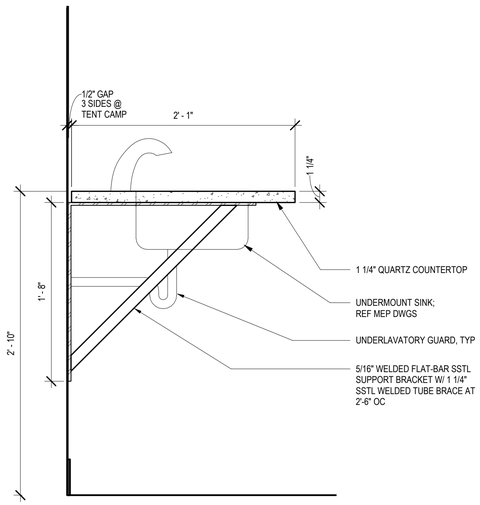
79 OF 144



3 A-26 SECTION - CEILING AT SHOWER, TYP
3" = 1'-0"



2 A-26 SECTION AT ADA SHOWER STALL CHANGING BENCH
1 1/2" = 1'-0"



1 A-26 SECTION - SINK COUNTER, TYP
1 1/2" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT
PENNSYLVANIA
TODD V. WOODWARD No. RA-016190-X

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TYPICAL INTERIOR DETAILS

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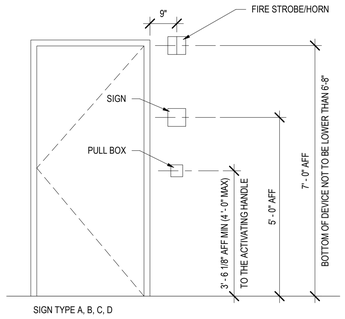
M STRENSKI	06/17/2022	A-26
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

80 OF 144

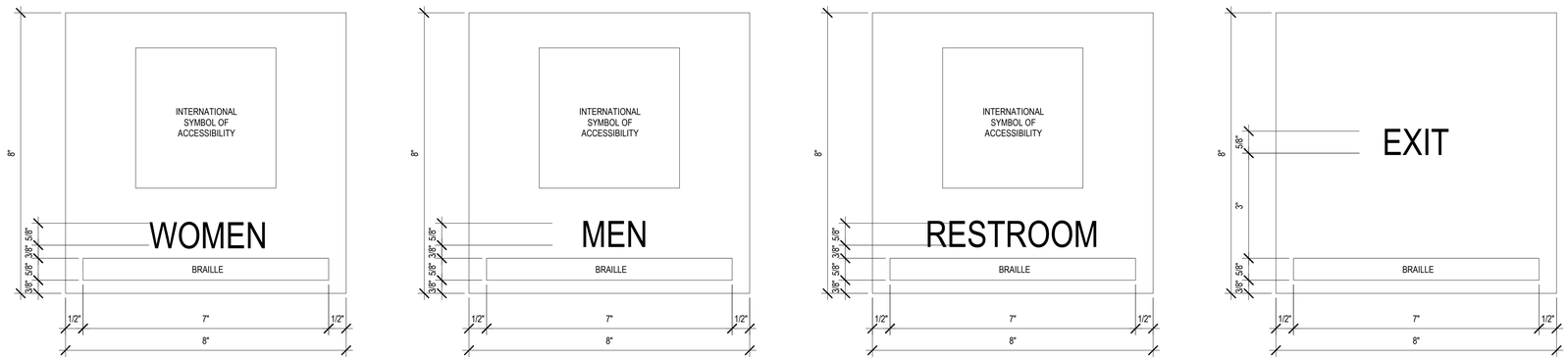
FILE PATH: A:\721-Hickory Run\01 Architecture\Rev Stair Pony Latrine Improvements - Thibodeau.dwg
LAST SAVED: 2020.06.04 12:14 PM PLOTTED: 2016.11.08 10:15 AM PLOTTED BY: Megan M. Shrenski



2 A-27 SIGNAGE AND DEVICE PLACEMENT
1/2" = 1'-0"

SIGNAGE SCHEDULE

DOOR NO.	ROOM	SIGN TYPE	SIGN TEXT	Notes
Level 1				
A101	WOMEN	A & D	WOMEN & EXIT	
A101B	WOMEN	A & D	WOMEN & EXIT	
A102	RESTROOM	C	RESTROOM	
A104	RESTROOM	C	RESTROOM	
A105	MEN	B & D	MEN & EXIT	
A105B	MEN	B & D	MEN & EXIT	
B100	MEN	B & D	MEN & EXIT	
B102	WOMEN	A & D	WOMEN & EXIT	
B103	RESTROOM	C	RESTROOM	*CONCEALED MOUNTING BRACKET AT STONE WALL
CD100	MEN	B & D	MEN & EXIT	C = DADDY ALLEN / D = SHEHAQUA
CD101	RESTROOM	C	RESTROOM	C = DADDY ALLEN / D = SHEHAQUA
CD102	WOMEN	A & D	WOMEN & EXIT	C = DADDY ALLEN / D = SHEHAQUA



TYPE A TYPE B TYPE C TYPE D

1 A-27 SIGNAGE TYPES
6" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

REGISTERED ARCHITECT PENNSYLVANIA TIMOTHY WOODWARD No. RA035934

03/05/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SIGNAGE

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DRAWN BY	DATE	DRAWING No.
M STRENSKI	06/17/2022	A-27
CHECKED BY	SCALE	
T WOODWARD	AS NOTED	

PRIMARY CODES AND SPECIFICATIONS

1. GENERAL BUILDING CODE:
   a. 2015 INTERNATIONAL BUILDING CODE AND REFERENCED STANDARDS.
2. CONCRETE CODES:
   a. LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318).
   b. LATEST EDITION OF THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).
   c. LATEST EDITION OF THE CRSI MANUAL OF STANDARD PRACTICE WITH ALL SUPPLEMENTS.
3. STRUCTURAL STEEL CODES:
   a. LATEST EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, (AISC 360).
   b. LATEST EDITION OF THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, (AISC 303).
4. OPEN WEB STEEL JOISTS:
   a. LATEST EDITION OF THE STANDARD SPECIFICATION FOR STEEL JOISTS (SJI 100).
   b. LATEST EDITION OF THE CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS (SJI COSP).
5. MASONRY CONSTRUCTION:
   a. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530).
   b. SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1).
6. STEEL DECK:
   a. LATEST EDITION OF THE SDI DESIGN MANUALS FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS.
7. COLD FORMED METAL FRAMING:
   a. NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, (AISI S100).

DESIGN LOADS

1. ROOF LIVE LOADS:
   a. UNIFORMLY DISTRIBUTED LIVE LOAD
      i. ON HORIZONTAL PROJECTION 20 PSF
   b. SEE ROOF FRAMING PLAN FOR OTHER CONCENTRATED EQUIPMENT LOADS.
2. FLOOR LIVE LOADS:
   a. UNIFORMLY DISTRIBUTED LIVE LOADS:
      i. PUBLIC ROOM 100 PSF
3. SUPERIMPOSED DEAD LOADS:
   c. TYPICAL FLOORS 25 PSF
5. WIND LOADS:
   a. LOADS BASED ON ASCE 7-10 WIND LOAD CRITERIA.

BASIC WIND SPEED, 3 SECOND GUST	109 MPH
HURRICANE PRONE REGION	NO
WINDBORNE DEBRIS REGION	NO
BUILDING CLASSIFICATION CATEGORY	II
IMPORTANCE FACTOR	1.00
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
WIND EXPOSURE CATEGORY	B
WIND TOPOGRAPHIC FACTOR, Kzt	1.0

6. SNOW LOADS
   a. GROUND SNOW LOAD = 40 PSF PER LOCAL BUILDING CODE (KIDDER TOWNSHIP) & DRIFTING PER ASCE 7-10
7. SEE LOADING NOTES, TABLES AND DIAGRAMS FOR DESIGN FORCES FOR COMPONENTS DESIGNED BY DELEGATED ENGINEERS.
8. SEISMIC: DESIGN CATEGORY A

/	Per
@	At
AB	Anchor Bolt
ACI	American Concrete Institute
ADDNL	Additional
AESS	Architectural Exposed Structural Steel
AFF	Above Finished Floor
ALT	Alternate
ALUM	Aluminum
APA	American Plywood Association
APPROX	Approximate
ARCH	Architect or Architectural
B/ or BO	Bottom of
BAL	Balance
BD	Board
BF	Braced Frame
BG	Backgouge
BL	Brick Ledge
BLDG	Building
BLKG	Blocking
BM	Beam
BN	Boundary Nail
BOS	Bottom of Steel
BOT or B	Bottom
BRG	Bearing
BSMT	Basement
BTWN	Between
CC	Center to Center
CF	Cold Formed
CG	Center of Gravity
CIP	Cast-In-Place
CJ	Control Joint
CJP	Complete Joint Penetration
CL	Centerline
CLG	Ceiling
CLR	Clear
CMU	Concrete Masonry Unit
COL	Column
CONC	Concrete
CONN	Connection
CONST	Construction
CONT	Continue or Continuous
CONTR	Contractor
COORD	Coordinate
CSJ	Construction Joint
CTR(D)	Center(ed)
d	Penny
DAS	Deformed Anchor Stud
DBL	Double
DCW	Demand Critical Weld
DFS	Deferred Submittal
DIA or Ø	Diameter
DIAG	Diagonal
DIM	Dimension
DL	Dead Load
DN	Down
DO	Ditto
DP	Drilled Pier or Deep
DT	Precast Double Tee
DTL(S)	Detail(s)
DWG(S)	Drawing(s)
DWL(S)	Dowels(s)
(E)	orEXIST Existing
E-W	East-West
EA	Each
EC	Epoxy Coated
EE	Each End
EF	Each Face
EJ	Expansion Join
EL	Elevation
ELEV	Elevator
EMBED	Embedded
EN	Edge Nail
ENGR	Engineer
EOR	Engineer-of-Record
EQ	Equal
EQ SP	Equally Spaced
EQUIP	Equipment
ES	Each Side
EW	Each Way
EXP	Expansion
EXP ANCH	Expansion Anchor
EXT	Exterior
FAB	Fabricate
FD	Footing Dowel
FF	Finished Floor
FIN	Finish(ed)
FLG	Flange
FLR	Floor
FND	Foundation
FO	Face of
FP	Full Penetration or FireProofing
FRAM	Framing
FS	Far Side
FT	Foot or Feet
FTG	Footing
FV	Field Verify
GA	Gage or Gauge
GALV	Galvanized
GL	Glu-lam
GR	Grade or Grind
GR BM	Grade Beam
HAS or HDAS	Headed Anchor Stud
HD	Headed or Holdown
HDAR	Headed Anchor Rod
HDG	Hot Dipped Galvanized
HK	Hook
HORIZ	Horizontal
HT	Height
HVAC	Heating-Ventilating and A/C
I.A.	Inside Face
ID	Inside Diameter
IN	Inch
INT	Interior
IT	Precast Inverted Tee Beam
JST	Joist
JT	Joint
k	Kip
L or LG	Length
LB	Precast L-Shaped Beam
LB(S)	Pound(s)
LCE	Compression Embedment
LCS	Compression Lap Splice
LDH	Hook Development Length
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LOC(S)	Location(s) or Locate
LONG	Longitudinal
LSL	Laminated Strand Lumber
LT	Light
LTE	Tension Embedment
LTS	Tension Lap Splice Length
LTWT	Lightweight
LVL	Level or Laminated Veneer Lumber
LWC	Light Weight Concrete
MACH	Machine
MACH RM	Machine Room
MAS	Masonry
MATL	Material
MAX	Maximum
MBS	Metal Building Supplier
MCJ	Masonry Control Joint
MECH	Mechanical
MEP	Mech/Elect/Plumb
MIN	Minimum
MISC	Miscellaneous
ML	Micro-Lam
MLS	Masonry Lap Splice
mm	Millimeter
MNFR	Manufacturer
MO	Masonry Opening
MTL	Metal
N	North
N-S	North-South
NIC	Not in Contract
NM	Non-Metallic
NO or #	Number
NOM	Nominal
NS	Non-Shrink or Near Side
NTS	Not to Scale
NWC	Normal Weight Concrete
O.F.	Outside Face
OAE	Or Approved Equivalent
OC	On Center
OD	Outside Diameter
OH	Opposite Hand
OPNG	Opening
OPP	Opposite
OVS	Oversized
OWS	One-Way Slab
PAF	Power Actuated Fastener
PC	Precast
PCA	Portland Cement Association
PD	Pier Dowel
PEN	Penetration
PERP	Perpendicular
PL	Plate (Steel)
PLF	Pounds Per Lineal Foot
PREFAB	Prefabricated
PRELIM	Preliminary
PS	Prestressed
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PT	Point or Post-Tension or Pretensioned
QTY	Quantity
RAD or R	Radius
RB	Precast Rectangular Beam
RC	Reinforced Concrete
RE:	or REF Refer to (Reference)
REINF	Reinforce(ing)(d)(ment)
REQD	Required
REQT(S)	Requirement(s)
RET	Return
RO	Rough Opening
ROF	Random Oriented Fiber
(S)	Salvaged
S	South
SC	Slip Critical
SCHED	Schedule
SECT	Section
SIM	Similar
SLH	Short Leg Horizontal
SLRS	Seismic Load Resisting System
SLV	Short Leg Vertical
SOG	Slab on Grade
SP	Space(s)
SP	@ Space at
SPECS	Specifications
SPRT	Support
SS	Stainless Steel
STD	Standard
STIFF	Stiffener
STL	Steel
STR	Structural
SW	Shearwall
SYM	Symmetrical
T	Top
T&B	Top and Bottom
T/ or T.O.	Top of
THK	Thick or Thickness
TL	Total Load
TOC	Top of Concrete
TOF	Top of Footing
TOM	Top of Masonry
TOP	Topping
TOS	Top of Steel
TOW	Top of Wall
TRANS	Transverse
TWS	Two-Way Slab
TYP	Typical
ULT	Ultimate
UNO	Unless Noted Otherwise
VERT	Vertical
VIF	Verify in Field
W/	With
W/O	Without
WD	Width or Wood
WF	Wide Flange
WP	Working Point or Waterproofing
WT	Weight
WWR	Welded Wire Reinforcement
WxH	Width x Height

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE040418
PENNSYLVANIA

SIGNATURE 11/19/21 DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

PRIMARY CODES, SYMBOLS AND ABBREVIATIONS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY M DIMONTE
DATE 06/17/2022
CHECKED BY J ADAMS
SCALE AS NOTED
DRAWING No. S-1
82 OF 144

FILE PATH: J:\2020\20027 - hickory run state park\CAD\sheet files\20027 - STRUCTURAL.dwg
LAST SAVED: 2022.06.10 01:08 PM PLOTTED: 2022.06.17 09:08 AM PLOTTED BY: James Adams
LAYOUT TAB: S-1 PRIMARY CODES SYMBOLS AND ABBREVIATIONS

GENERAL REQUIREMENTS

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL DRAWINGS AND SPECIFICATIONS CONTAINED HEREIN.
2. ALL WORK RELATED TO THE STAGING, CONSTRUCTION PRACTICES AND SAFETY OF THE PROJECT'S WORKERS AND PROPERTY SHALL BE CONSIDERED MEANS AND METHODS AND SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE AND ALL CODES AND STANDARDS. VISITS TO THE SITE MADE BY THE ENGINEER ARE FOR THE REVIEW OF THE STRUCTURAL WORK FOR GENERAL CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS AND IS NOT FOR THE REVIEW OF CONTRACTOR RESPONSIBILITIES, INCLUDING BUT NOT LIMITED TO PROJECT SAFETY AND MEANS AND METHODS OF CONSTRUCTION.
3. EVALUATION AND COMPLIANCE WITH LOADING RESTRICTIONS FOR MEANS AND METHODS OF CONSTRUCTION AS WELL AS STAGING FOR OTHER TRADES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL WORK SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCED BUILDING CODE. SUBMIT ALL REPORTS TO THE ENGINEER OF RECORD FOR REVIEW. AT THE COMPLETION OF THE PROJECT, THE SPECIAL INSPECTION REPORT SHALL BE COMPLETED, SIGNED BY THE SPECIAL INSPECTOR AND SUBMITTED TO THE ENGINEER OF RECORD FOR RECORD PURPOSES.
5. SCALING OF DRAWINGS TO DETERMINE DIMENSIONS OF ELEMENTS IS NOT PERMITTED.
6. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED TO CREATE SHOP DRAWINGS OR SHORING DOCUMENTATION WITHOUT THE EXPRESS WRITTEN CONSENT OF MELIORA DESIGN.
7. ALL HORIZONTAL AND VERTICAL DIMENSIONS CONTAINED ON THE STRUCTURAL DRAWINGS WERE DEVELOPED IN COORDINATION WITH OTHER DISCIPLINES FOR THE PURPOSE OF THIS PROJECT. ANY DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE COORDINATED WITH THE OTHER DISCIPLINE DRAWINGS.
8. THE STRUCTURAL DOCUMENTS ARE TO BE USED IN COORDINATION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS AS WELL AS THOSE OF ALL OTHER DISCIPLINES. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
9. ALL REQUESTED CHANGES IN WORK BY THE CONTRACTOR ARE SUBJECT TO THE APPROVAL OF THE DESIGN TEAM AND OWNER AND ARE CONSIDERED TO BE COMPLETED AT NO ADDITIONAL COST UNLESS SPECIFICALLY APPROVED. APPROVAL OF REQUESTED CHANGES DOES NOT CONSTITUTE APPROVAL OF AN INCREASE IN PROJECT COSTS.
10. REFER TO THE ARCHITECTURAL DOCUMENTATION FOR LOCATION, EXTENT, AND DETAILING OF ALL WATERPROOFING AND FIREPROOFING.
11. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS FOR THIS PROJECT:
    a. CONCRETE MIX DESIGNS
    b. REINFORCING SHOP DRAWINGS
    c. ANCHOR BOLT AND CONCRETE EMBEDDED ASSEMBLIES
    d. MASONRY PRODUCTS
    e. ALL ADMIXTURES, SEALANTS, HARDENERS, COATINGS

    ALL SHOP DRAWINGS NOTED ABOVE SHALL BE SUBMITTED IN A TIMELY MANNER TO ALLOW FOR A 10 DAY REVIEW PERIOD BY THE DESIGN TEAM. ALL SUBMITTED DRAWINGS SHALL CONTAIN THE CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHOP DRAWING STAMP INDICATING THEIR REVIEW OF THE DRAWINGS INCLUDING BUT NOT LIMITED TO COORDINATION WITH OTHER TRADES, VERIFICATION OF DIMENSIONS, FIELD CONSTRAINTS, MEANS AND METHODS CONSTRUCTION.

FOUNDATIONS

1. EXCAVATE THE BUILDING FOUNDATION AREAS TO THE DEPTH AND EXTENT INDICATED IN THE FOUNDATION DRAWINGS. ALL FOOTING AND SLAB SUBGRADES SHALL BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO BACKFILLING. SUBMIT ALL REPORTS TO THE ENGINEER OF RECORD FOR RECORD.
2. BOTTOM OF FOOTING SUBGRADE MUST BE INSPECTED AND APPROVED BY A REGISTERED GEOTECHNICAL ENGINEER BEFORE PLACING ANY CONCRETE FOUNDATIONS. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN THE SPECIFIED BEARING PRESSURE OF 2000 PSF. SUBMIT ALL REPORTS TO THE ENGINEER OF RECORD FOR RECORD.
3. BOTTOM OF ALL FOOTINGS SUBJECTED TO FREEZE THAW CONDITIONS SHALL BE A MINIMUM FOUR FEET BELOW FINISH GRADE OR TOP OF SLAB ELEVATION WHICHEVER IS LOWER.

CONCRETE

1. THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:
   ACI 318 (CODE)
   ACI 306 (WINTER CONCRETING)
   ACI 305 (HOT WEATHER CONCRETING)
   ACI 211.1 (MIX PROPORTIONING)
   ACI 304 (PLACING)
   ACI 315 (DETAILING)
   ACI 347 (FORMWORK)
   ACI 301 (SPECIFICATIONS)
2. ALL CONCRETE SHALL BE NORMAL WEIGHT (148 PCF DRY DENSITY, MIN), WITH MIXES DESIGNED TO MEET THE FOLLOWING CRITERIA FOR USE IN VARIOUS ELEMENTS OF THE STRUCTURE AS FOLLOWS:
   ALL MIXES SHALL USE TYPE II CEMENT

STRUCTURAL ELEMENT	28 DAY COMPRESSIVE STRENGTH	AIR ENTRAINMENT	MAX W/C	MAX SLUMP	MAX AGG
SPREAD FOOTINGS	4000 PSI	0%	–	3–5"	3/4"
FOUNDATION WALLS	4000 PSI	6% +/– 1.5%	–	3–5"	3/4"
INT SLABS ON GRADE	3500 PSI	0	0.50	3–5"	3/4"
EXTERIOR SIDEWALK	4000 PSI	6% +/– 1.5%	0.45	3–5"	3/4"

3. ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60. LAP ALL BARS MINIMUM 48 BAR DIAMETERS UNLESS OTHERWISE NOTED IN THE TABLES BELOW.
4. ALL WWF SHALL BE MANUFACTURED FROM HIGH STRENGTH STEEL CONFORMING TO ASTM A185. LAP ALL WWF A MINIMUM OF ONE CROSS WIRE SPACING PLUS 2 INCHES.
5. DOWELS AND OTHER MISCELLANEOUS STEEL EMBEDDED ITEMS SHALL BE LOCATED AND HELD IN SPECIFIED POSITION PRIOR TO PLACEMENT OF CONCRETE AND SHALL NOT BE PUSHED INTO CONCRETE FOLLOWING CONCRETE POUR.
6. CONCRETE SLAB ON GRADE SHALL BE FINISHED TO TOLERANCE FOR FLOOR FLATNESS (Ff) OF 25 AND FLOOR LEVELNESS (Fl) OF 20 UNLESS OTHERWISE MANDATED BY ARCHITECTURAL FINISH REQUIREMENTS.
7. PLACE TRANSVERSE REINFORCING (SWB) IN BOTTOM LAYER OF CONTINUOUS FOOTINGS. PROVIDE CORNER BARS IN FOOTINGS TO MATCH CONTINUOUS REINFORCEMENT. EXTEND WALL FOOTING REINFORCING INTO COLUMN FOOTINGS A MINIMUM OF 2 FEET.
8. PROVIDE KEYS IN CONCRETE WALLS, PIERS, GRADE BEAMS AND FOOTINGS AT INTERSECTIONS UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT AT WALL CORNERS AND TEE INTERSECTIONS.
9. CONCRETE SHALL ACHIEVE A MINIMUM OF 70 PERCENT OF THE DESIGN STRENGTH PRIOR TO STEEL ERECTION. WRITTEN CONFIRMATION OF THIS STRENGTH SHOULD BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF STEEL ERECTION.

STEEL

1. MATERIALS

W–SHAPES & WT–SHAPES	ASTM A992
S–SHAPES, M–SHAPES, HP–SHAPES	ASTM A36
ST–SHAPES & MT–SHAPES	ASTM A36
C–SHAPES & MC–SHAPES	ASTM A36
ANGLES & PLATES	ASTM A36
HSS SHAPES	ASTM A1085
STEEL PIPE	ASTM A53 (TYPE E OR S), GRADE B
HIGH STRENGTH BOLTS	ASTM A325
MACHINE BOLTS	ASTM A307
ANCHOR RODS AND BOLTS	ASTM F1554, GRADE 55 TYPE S1(UNO)
WELDED HEADED STUDS	ASTM A108
DEFORMED BAR ANCHORS	ASTM A496
WELDING ELECTRODES	AWS D1.1, E70 SERIES
WELDING ELECTRODES FOR METAL STUDS	AWS D1.1, E60 SERIES

2. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE.
3. ALL STEEL SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SSPC– SP3 AND HAVE A SHOP COAT OF RUST INHIBITIVE PAINT EXCEPT FOR ITEMS TO BE HOT DIPPED GALVANIZED OR SPRAY FIREPROOFED. DO NOT PAINT PORTIONS EMBEDDED IN CONCRETE.
4. ALL EXTERIOR ELEMENTS AND THOSE ELEMENTS NOTED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER SANDBLAST CLEANING PER SSPC–SP10. USE ASTM A325 BOLTS HOT DIPPED GALVANIZED WITH GALVANIZED HARDENED WASHERS AND GALVANIZED HEAVY HEX NUTS FOR BOLTING OF GALVANIZED ITEMS.
5. ORIENT ALL MILL CAMBER UPWARD DURING FABRICATION AND ERECTION.
6. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED, AS DESCRIBED IN "LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE", AWS D1.1, TO PERFORM THE TYPE OF WORK REQUIRED.
7. FRAMING CONNECTIONS NOT DETAILED, OR CONNECTIONS THAT ARE MODIFIED FROM THOSE DETAILED, SHALL BE DESIGNED BY SUPPLIER FOR THE END REACTION SHOWN ON THE PLAN. IF NO REACTION IS PROVIDED, DESIGN FOR 1/2 THE BEAM MAXIMUM UNIFORM LOAD PER AISC MANUAL FOR STEEL CONSTRUCTION. SUBMIT SIGNED AND SEALED CALCULATIONS.
8. ALL TENSION CONTROLLED BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1852 AND F2280.
9. SUBMIT ALL STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION.
10. CONNECTIONS FOR COMPOSITE BEAM TO GIRDER CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 200% OF AISC TABLE VALUES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
11. STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR COORDINATING WITH THE GENERAL CONTRACTOR FOR THE PURPOSE OF SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATION, AND DIMENSIONS OF WALLS AND FRAMING THAT EXIST AT THE TIME OF THE STEEL ERECTION.
12. ALL EXTERIOR LINTELS AND SHELF ANGLES SHALL BE HOT DIP GALVANIZED. ANY POINTS OF WELDING SHALL BE TOUCHED UP IN THE FIELD WITH A ZINC–RICH PAINT BY THE STEEL ERECTOR.
13. ALL EXPOSED STEEL (DUNNAGE FRAMING, SCREEN WALL FRAMING, CANOPY FRAMING, ETC.) SHALL BE HOT DIP GALVANIZED. ANY POINTS OF WELDING SHALL BE TOUCHED UP IN THE FIELD WITH A ZINC–RICH PAINT BY THE STEEL ERECTOR.

STEEL–LINTELS

1. ALL STEEL LINTELS IN MASONRY WALLS SHALL BE AS NOTED BELOW WITH SIZES AS FOLLOWS FOR EACH 4" OF WALL THICKNESS OR FRACTION THEREOF (UNLESS NOTED OTHERWISE ON DRAWINGS):

SPAN	MINIMUM END BEARING	ANGLE SIZE
UNDER 6'–0"	8"	4" x 3–1/2" x 5/16"
6–0" –8'–0"	8"	5" x 3–1/2" x 7/16"

2. IN ADDITION TO THE LINTELS NOTED, PROVIDE LINTELS AND/OR BEAM LINTELS AS REQUIRED FOR ANY OPENING SHOWN ON THE ARCHITECTURAL DRAWINGS AND FOR ANY OPENING REQUIRED BY THE MECHANICAL DRAWINGS AND ANY OTHER AS THE ARCHITECT MAY DIRECT.
3. PROVIDE 100% SOLID MASONRY BELOW ALL LINTEL BEARINGS 8" BEYOND THE OPENING FOR THE FULL WALL WIDTH AT ALL LINTELS FROM THE LINTEL BEARING TO THE FLOOR BELOW.
4. ALL LINTELS TO BE SET TRUE AND LEVEL

MASONRY

1. MASONRY UNITS SHALL BE NORMAL WEIGHT MASONRY UNITS ASTM C90 SOLID OR ASTM C90 HOLLOW GROUTED SOLID BELOW GRADE. ASTM C90 HOLLOW ABOVE GRADE WITH MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI (AVERAGE OF 3 UNITS)
2. FOLLOWING ARE THE BLOCK STRENGTHS REQUIRED:
   a. ASTM C90 SOLID 2000 PSI ON GROSS AREA OF INDIVIDUAL UNITS.
   b. ASTM C90 SOLID 1500 PSI ON NET AREA OF AVERAGE OF 3 UNITS PER ACI–530.
   c. ASTM C90 HOLLOW 1700 PSI ON NET AREA OF INDIVIDUAL UNITS.
3. ALL MORTAR SHALL BE ASTM C270 TYPE S (EXCEPT FOR MASONRY IN CONTACT IN CONTACT WITH THE EARTH SHALL BE TYPE M) WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI AT 28 DAYS.
4. ALL MORTAR SHALL BE TESTED IN ACCORDANCE WITH ASTM C270 AND ASTM C780.
5. GROUT SHALL BE A HIGH SLUMP MIX IN ACCORDANCE WITH ASTM SPECIFICATION C476 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI FROM FIELD OBTAINED TEST PRISMS.
6. ALL CONCRETE MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES ACI 530/ASCE 5/TMS 402" AND THE "SPECIFICATION FOR MASONRY STRUCTURES ACI 530.1/ASCE 6/TMS 602." AND INSPECTED BY A QUALIFIED ENGINEER.
7. ALL BRICK MASONRY UNITS SHALL BE GRADE SW IN ACCORDANCE WITH ASTM C216 WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, BONDED TOGETHER WITH TYPE S MORTAR.
8. PROVIDE HOT–DIPPED GALVANIZED TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT, MIN. 9 GA, AT 16" ON CENTER VERTICAL IN ALL MASONRY WALLS. SPACE HORIZONTAL JOINT REINFORCEMENT AT 8 INCHES ON CENTER IN ALL PARAPETS. USE SHOP FABRICATED SPECIAL PIECES AT ALL CORNERS AND TEES.
9. ALL HORIZONTAL REINFORCING STEEL IN BOND BEAMS AND LINTEL BLOCK UNITS SHALL BE CONTINUOUS. UNITS SHALL BE SOLIDLY GROUTED. PROVIDE 48 TIMES BAR DIAMETER LAP FOR HORIZONTAL REINFORCING IN BOND BEAMS. NO SPLICES SHALL BE PROVIDED FOR HORIZONTAL REINFORCING IN BLOCK LINTELS.
10. GROUT CELLS SOLID WHERE VERTICAL BARS ARE SHOWN ON THE DRAWINGS. VERTICAL BARS SHALL EXTEND FROM BOTTOM TO THE TOP OF THE WALL. PROVIDE 48 TIMES BAR DIAMETER SPLICE FOR VERTICAL BARS WHERE REQUIRED AND/OR SHOWN ON THE DRAWINGS.
11. ALL REINFORCED MASONRY WALLS WITH OPENINGS UP TO FOUR (4) FEET WIDE, SHALL HAVE ONE VERTICAL BAR MINIMUM AT EACH SIDE OF OPENINGS. FOR OPENINGS LARGER THAT 4 FEET WIDE, PROVIDE TWO (2) VERTICAL BARS AT EACH SIDE OF OPENINGS. REINFORCING AT EDGES OF OPENING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.
12. ALL REINFORCED MASONRY WALL CORNERS AND INTERSECTIONS SHALL HAVE ONE VERTICAL BAR (MINIMUM) IN GROUTED CELL. REINFORCING SHALL MATCH TYPICAL WALL VERTICAL REINFORCEMENT.
13. PROVIDE ONE VERTICAL BAR (MINIMUM) IN THE FIRST CELL EACH SIDE OF CONTROL JOINTS. REINFORCING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.
14. PROVIDE A BOND BEAM AT THE TOP OF ALL CMU WALLS REINFORCED WITH (2) – #5 CONTINUOUS UNLESS NOTED OTHERWISE.
15. SEE ARCHITECT'S DRAWINGS FOR THE EXTENT AND EXACT LOCATION OF MASONRY WALLS.
16. WALL CONTROL JOINTS (WCJ):
    WALL CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT LOCATIONS INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS BUT UNLESS NOTED OTHERWISE AT A SPACING NOT GREATER THAN 24' O.C.
17. HORIZONTAL JOINT REINFORCING SHALL BE INTERRUPTED EACH SIDE OF WALL CONTROL JOINTS.
18. WALL CONTROL JOINTS SHALL NOT BE PLACED OVER OPENINGS OR WITHIN AN OPENING JAMB WIDTH. SEE PLANS AND/OR JAMB REINFORCING SCHEDULE FOR MINIMUM JAMB WIDTHS.
19. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT WALL CONTROL JOINTS.
20. ALL EXPOSED FACES OF CMU SHALL BE FINISHED.

PRECAST MASONRY LINTELS

1. ALL LINTELS IN MASONRY WALLS SHALL BE AS NOTED BELOW:
   MASONRY OPENING < 4'–0"
   MIN. END BEARING = 8"
   FOR EACH 4" WALL THICKNESS – USE 3.625" X 7.625" W/1 #3 TOP & 1 #4 BOTTOM.
2. CONCRETE STRENGTH: 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
3. PROVIDE 100% SOLID MASONRY BELOW ALL LINTEL BEARINGS 8" BEYOND THE OPENING FOR THE FULL WALL WIDTH AT ALL LINTELS FROM THE LINTEL BEARING TO THE FLOOR BELOW.
4. ALL LINTELS TO BE SET TRUE AND LEVEL

TIMBER

1. ALL STRUCTURAL TIMBER FRAMING, WALLS, BLOCKING, ETC. SHALL BE HEM FIR #2 MINIMUM, STRESS GRADE LUMBER OR APPROVED EQUAL. THE MINIMUM ALLOWABLE PROPERTIES ARE AS FOLLOWS:
   a. Fb = 850 PSI Fv = 75 PSI E = 1,300,000 PSI
   b. ALL STRUCTURAL TIMBER MUST BE STAMPED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION'S "CONSTRUCTION MANUAL".
   c. ALL STRUCTURAL TIMBER MUST BE STAMPED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION'S "CONSTRUCTION MANUAL".
2. ALL MICROLAM BEAMS SHALL BE AS ENGINEERED AND MANUFACTURED BY WEYERHAEUSER OR APPROVED EQUAL. THE MINIMUM ALLOWABLE PROPERTIES FOR MICRO LAM BEAMS ARE AS FOLLOWS:
   a. Fb = 2800 PSI Fv = 285 PSI E = 2,000,000 PSI.
3. ALL PARALLAM BEAMS SHALL BE AS ENGINEERED AND MANUFACTURED BY WEYERHAEUSER OR APPROVAL EQUAL. THE MINIMUM ALLOWABLE PROPERTIES FOR PARALLAM BEAMS ARE AS FOLLOWS:
   a. Fb = 2900 PSI Fv = 290 PSI E = 2,000,000 PSI
4. ALL TIMBER AND TIMBER CONSTRUCTION SHALL COMPLY WITH LATEST EDITIONS OF THE FOLLOWING STANDARDS:
   a. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION: TIMBER CONSTRUCTION MANUAL.
   b. NATIONAL FOREST PRODUCTS ASSOCIATION: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
   c. AMERICAN PLYWOOD ASSOCIATION: PLYWOOD DESIGN SPECIFICATION.
   d. AMERICAN WOOD PRESERVERS ASSOCIATION STANDARDS.
   e. NATIONAL LUMBER MANUFACTURERS ASSOCIATION: NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENINGS.
5. ALL TIMBER NOTED AS TREATED SHALL BE PRESSURE TREATED BY THE CA–C PROCESS (COPPER AZULE). TREATMENT SHALL BE PER AWPA STANDARD U1. SERVICE CONDITION UC4A, MINIMUM RETENTION OF 0.16 PCF.
6. ALL PRE–ENGINEERED WOOD JOISTS (TJI, TJL, TJM, TJS, TJW, etc) AS NOTED ON PLAN SHALL BE AS MANUFACTURED BY WEYERHAEUSER OR APPROVED EQUAL. INSTALL BRACING AND BRIDGING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. ALL TIMBER CONNECTIONS SHALL BE MADE USING PREFABRICATED CONNECTORS. TOE NAILING IS NOT PERMITTED. SUBMIT MANUFACTURER'S DATA FOR REVIEW. FASTENERS SHALL BE AS MANUFACTURED BY SIMPSON STRONGTIE OR APPROVED EQUAL.
8. PROVIDE MINIMUM CONTINUOUS SOLID BLOCKING OR CROSS BRIDGING LINES AT 8'.0" O/C MAX SPACING FOR ALL
   a. WOOD JOISTS.
   b. PROVIDE A MINIMUM OF ONE LINE OF BLOCKING OR CROSS BRIDGING FOR ALL SPANS.
9. ENGINEERED METAL–PLATE–CONNECTED WOOD TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL SUBMIT ENGINEERED TRUSS SHOP DRAWINGS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL. TRUSS SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A LICENSED DESIGN PROFESSIONAL CURRENTLY REGISTERED FOR PRACTICE IN THE APPLICABLE STATE. SHOP DRAWINGS SHALL INDICATE ALL LOADING CASES CONSIDERED, MAXIMUM DEFLECTIONS AND MAXIMUM END REACTIONS FOR EACH TYPICAL TRUSS CONFIGURATION. TRUSS SHOP DRAWINGS SHALL INDICATE COMPRESSION MEMBERS REQUIRING ADDITIONAL FIELD–INSTALLED LATERAL BRACING. TRUSS DEFLECTIONS SHALL BE LIMITED TO 1/360 OF SPAN.

TRUSS DESIGN LOADS (LOADS DO NOT INCLUDE TRUSS SELF WEIGHT)

1. TOP CHORD
   a. SNOW LOAD 34PSF
   b. LIVE LOAD 20PSF
   c. DEAD LOAD 15PSF
2. BOTTOM CHORD
   a. LIVE LOAD 0PSF
   b. DEAD LOAD 20PSF

POST–INSTALLED ANCHORS:

1. POST–INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD (EOR) PRIOR TO USING POST–INSTALLED ANCHORS FOR MISSING OR MISPLACED ANCHORS.
2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.
3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE AND MECHANICAL ANCHOR INSTALLATIONS AS REQUIRED BY THE EOR. INDEPENDENT ON–SITE PROOF LOAD TESTING SHALL BE PERFORMED AS REQUIRED BY THE EOR. CONTACT EOR FOR NUMBER OF ANCHORS REQUIRED TO BE TESTED AND REQUIRED PROOF LOAD MAGNITUDE.

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123
melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
NO. PE040418
11/19/21
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 ——— 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

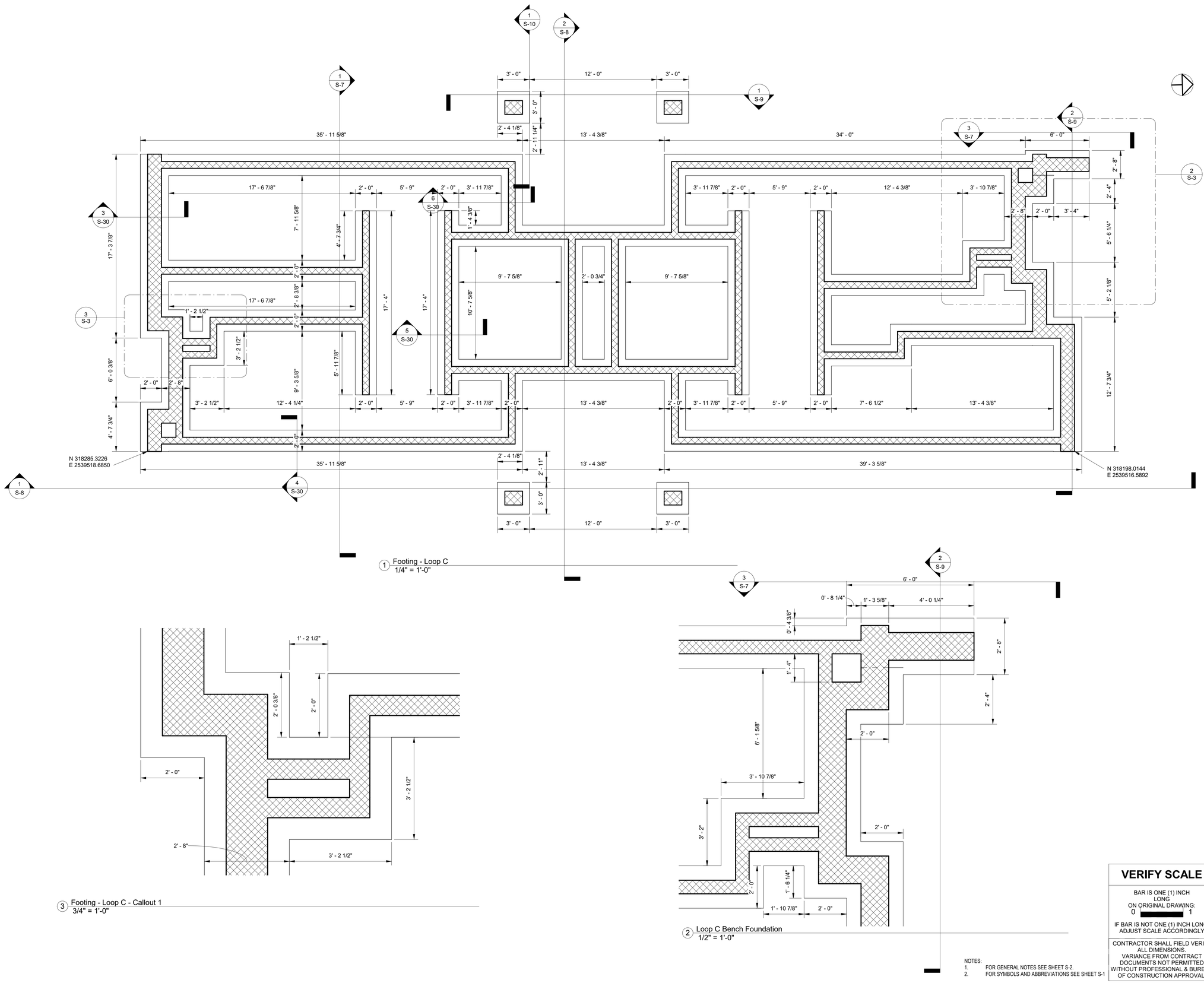
GENERAL NOTES

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
M DIMONTE	06/17/2022	S–2
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

83 OF 144

FILE PATH: J:\2020\20027 – Hickory run state park\CAD\sheet files\20027 – STRUCTURAL.dwg
LAST SAVED: 2022.06.10 01:08 PM PLOTTED: 2022.06.17 09:08 AM PLOTTED BY: James Adams
LAYOUT TAB: S–2 GENERAL NOTES



1 Footing - Loop C
1/4" = 1'-0"

3 Footing - Loop C - Callout 1
3/4" = 1'-0"

2 Loop C Bench Foundation
1/2" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JAMES WILLIAM ADAMS ENGINEER No. PE044518

11/19/2021
SIGNATURE DATE

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS

DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C FOOTING PLAN

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S–3
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

84 OF 144

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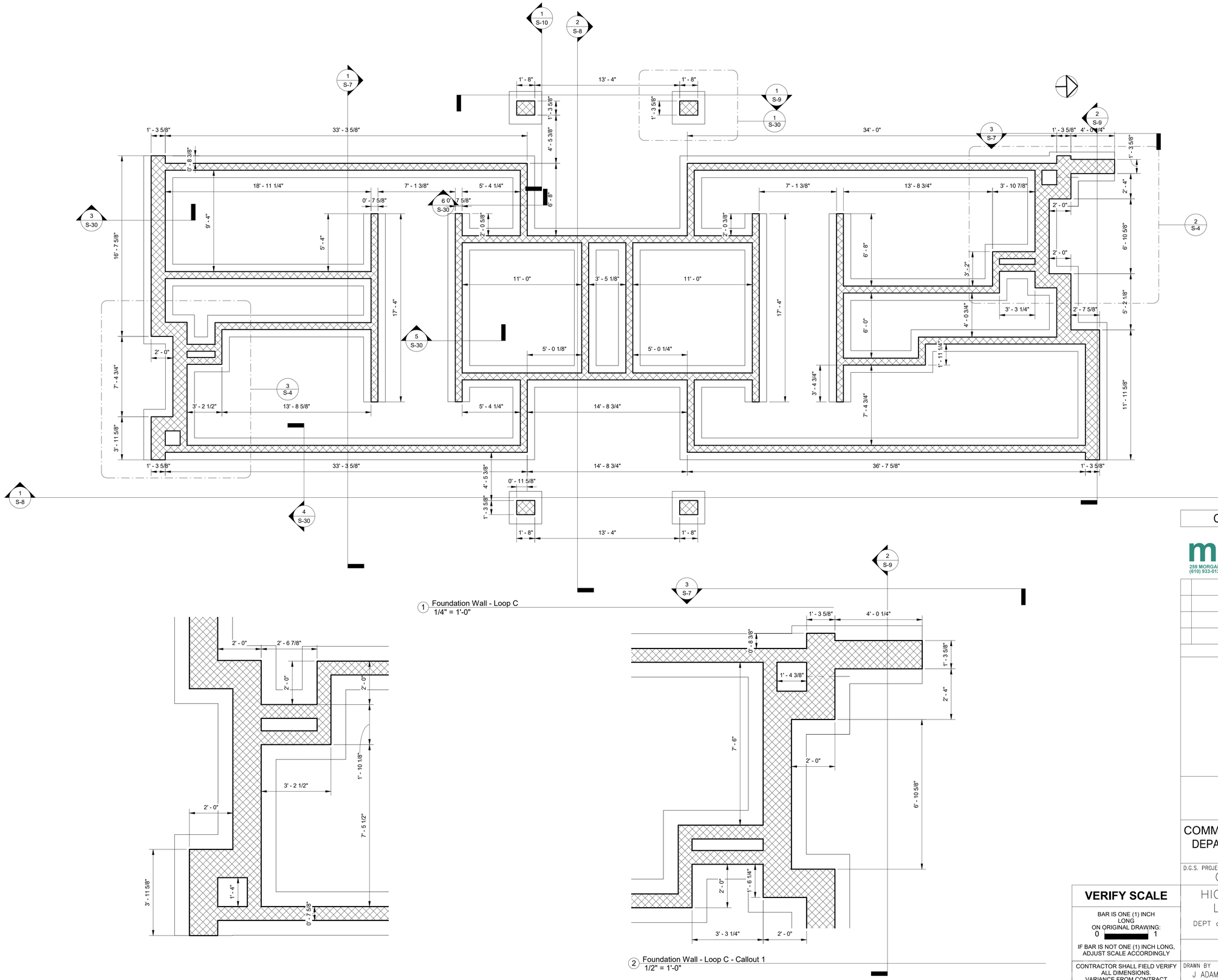

1 Foundation Wall - Loop C
1/4" = 1'-0"

3 Foundation Wall - Loop C - Callout 2
1/2" = 1'-0"

2 Foundation Wall - Loop C - Callout 1
1/2" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
PENNSYLVANIA

11/19/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C FOUNDATION WALL PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S–4
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

85 OF 144

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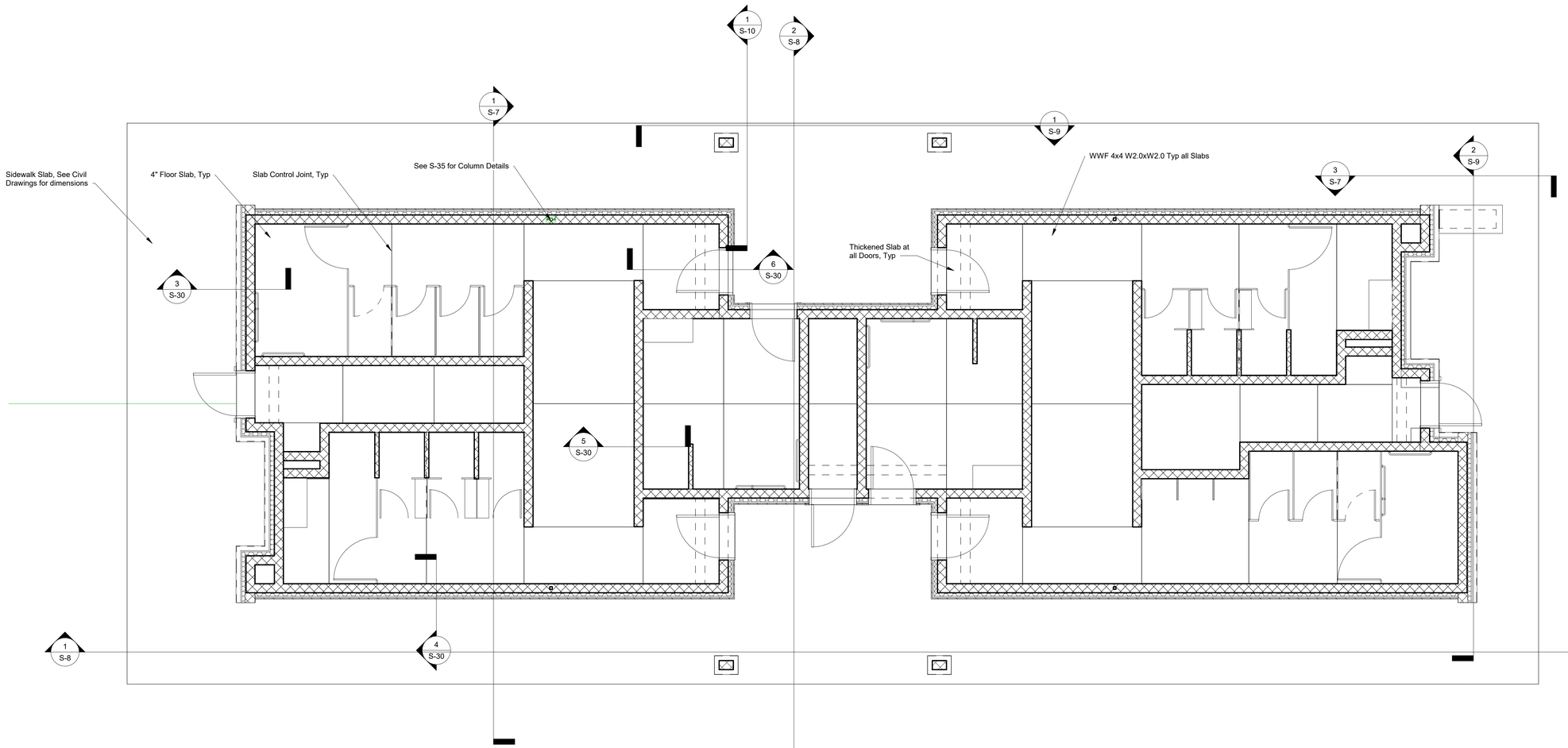

1 Slab and Wall Plan - Loop C
1/4" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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11/19/2021
SIGNATURE DATE

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C SLAB AND WALL PLAN

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-5
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J ADAMS	AS NOTED	

86 OF 144

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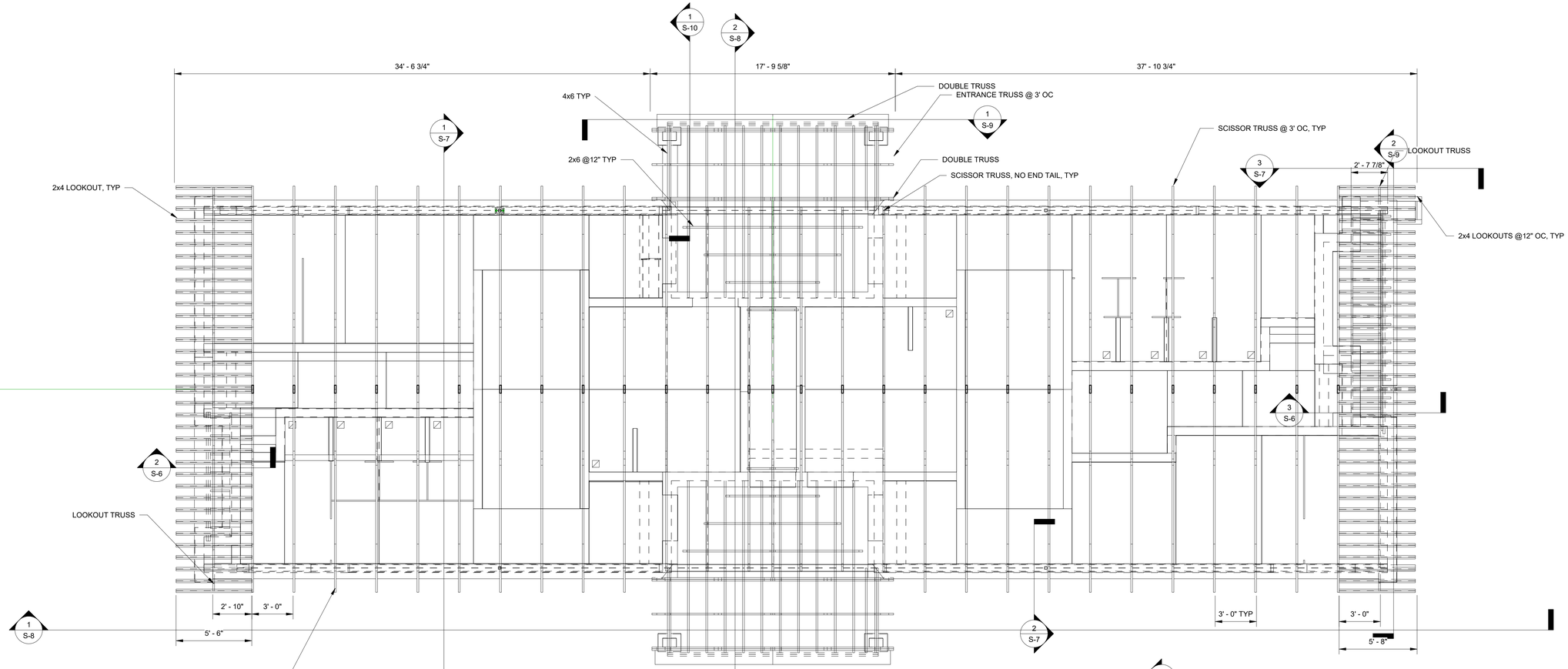
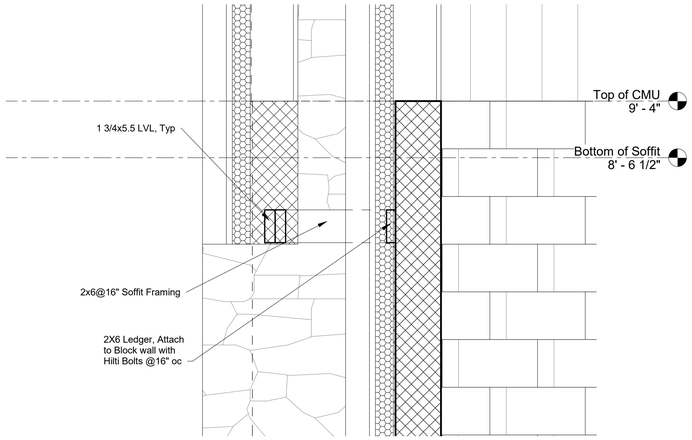
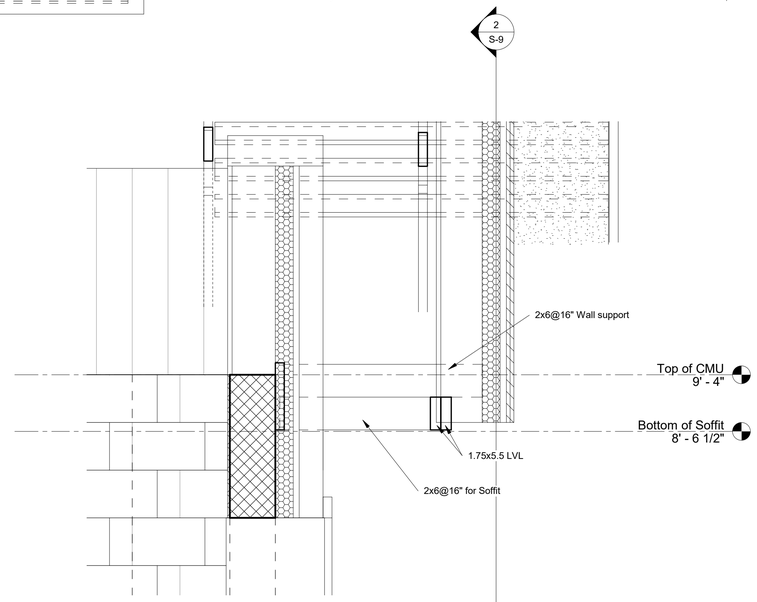




2 End Wall and Soffit Framing
1" = 1'-0"



3 Soffit Framing and End Wall Support
1" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
PE 074454E
11/19/2021
SIGNATURE DATE

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1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C ROOF PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-6
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

87 OF 144

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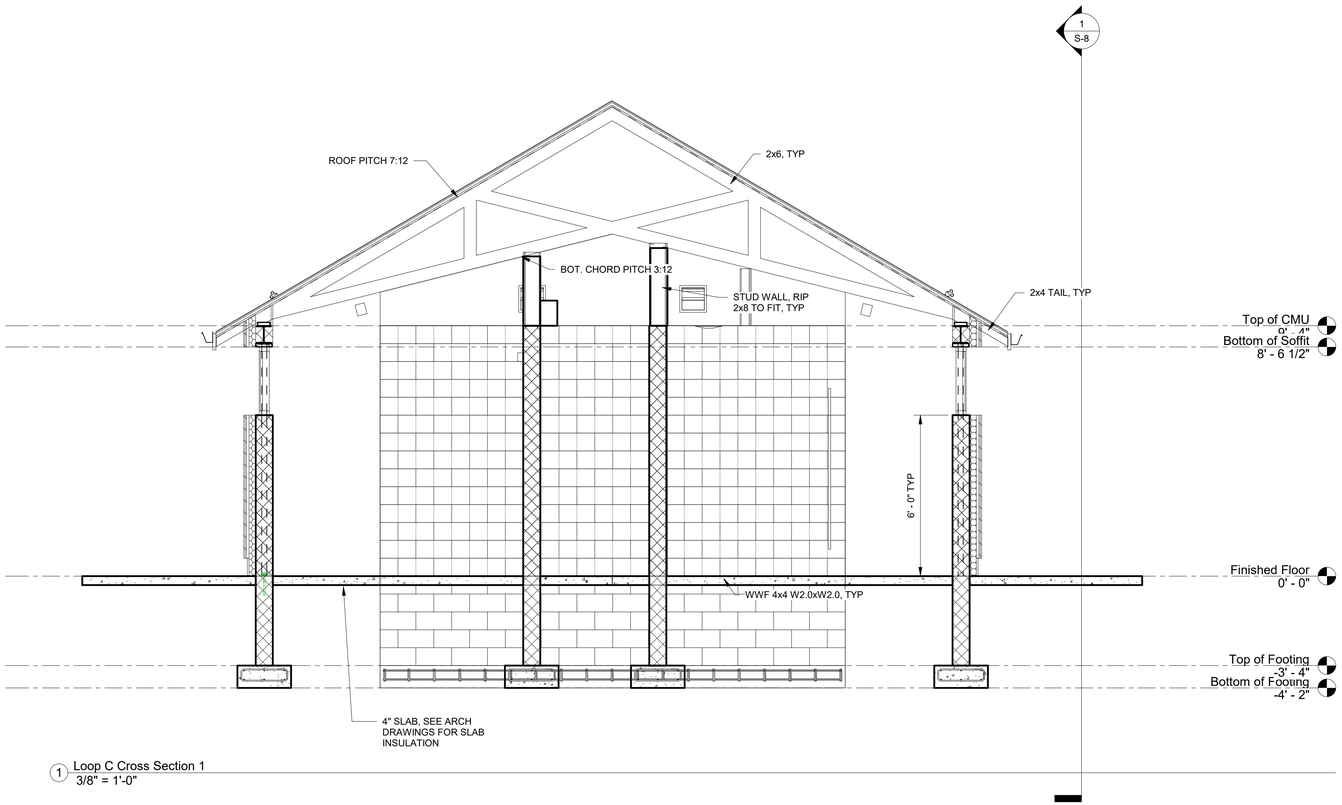
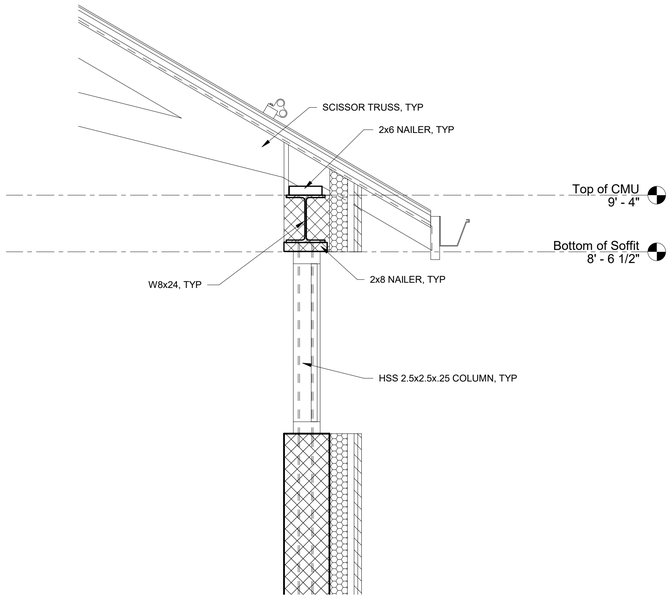
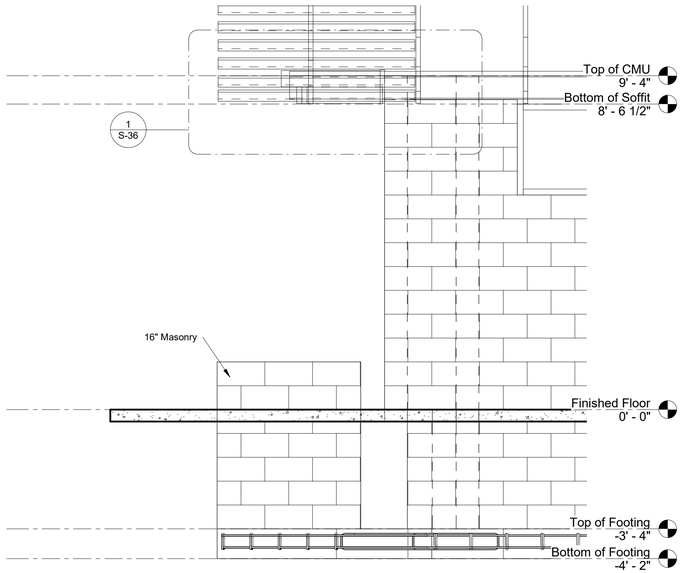


1 Loop C Cross Section 1
3/8" = 1'-0"



2 Steel Column and Beam
1" = 1'-0"



3 Loop C Lookout Detail
1/2" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JAMES WILLIAM ADAMS — ENGINEER — TEMPLE

SIGNATURE 11/19/2021 DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C SECTIONS, SHEET 1

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

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DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-7
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J ADAMS	AS NOTED	

88 OF 144

FILEPATH: J:\2020\20027 - Hickory Run State Park\CAD\Revit\Hickory Structural.rvt
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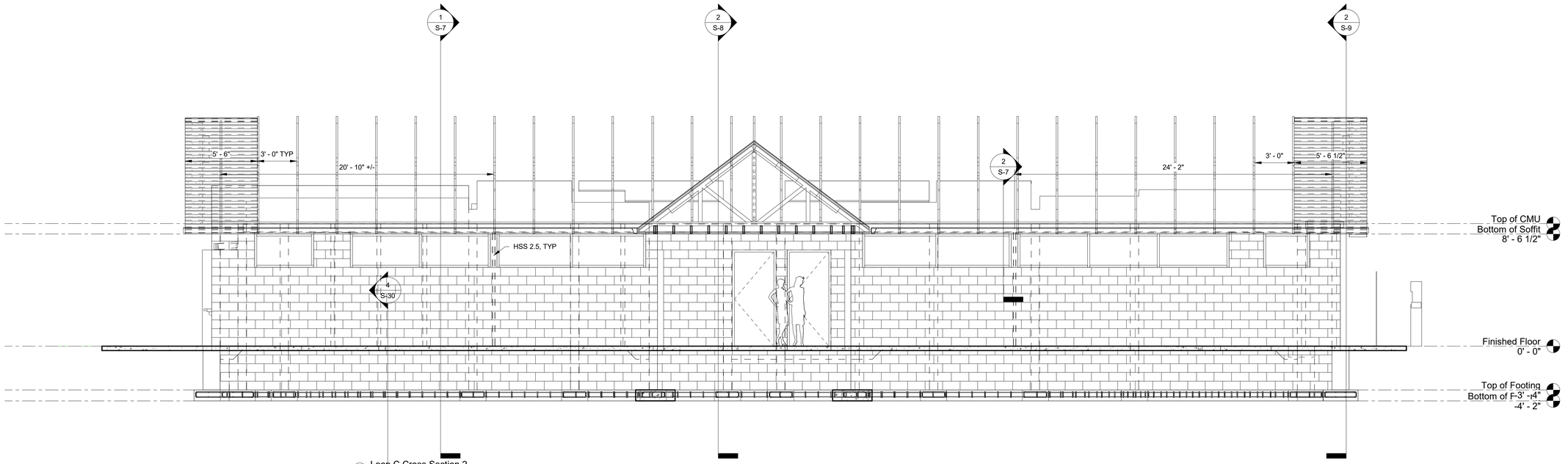
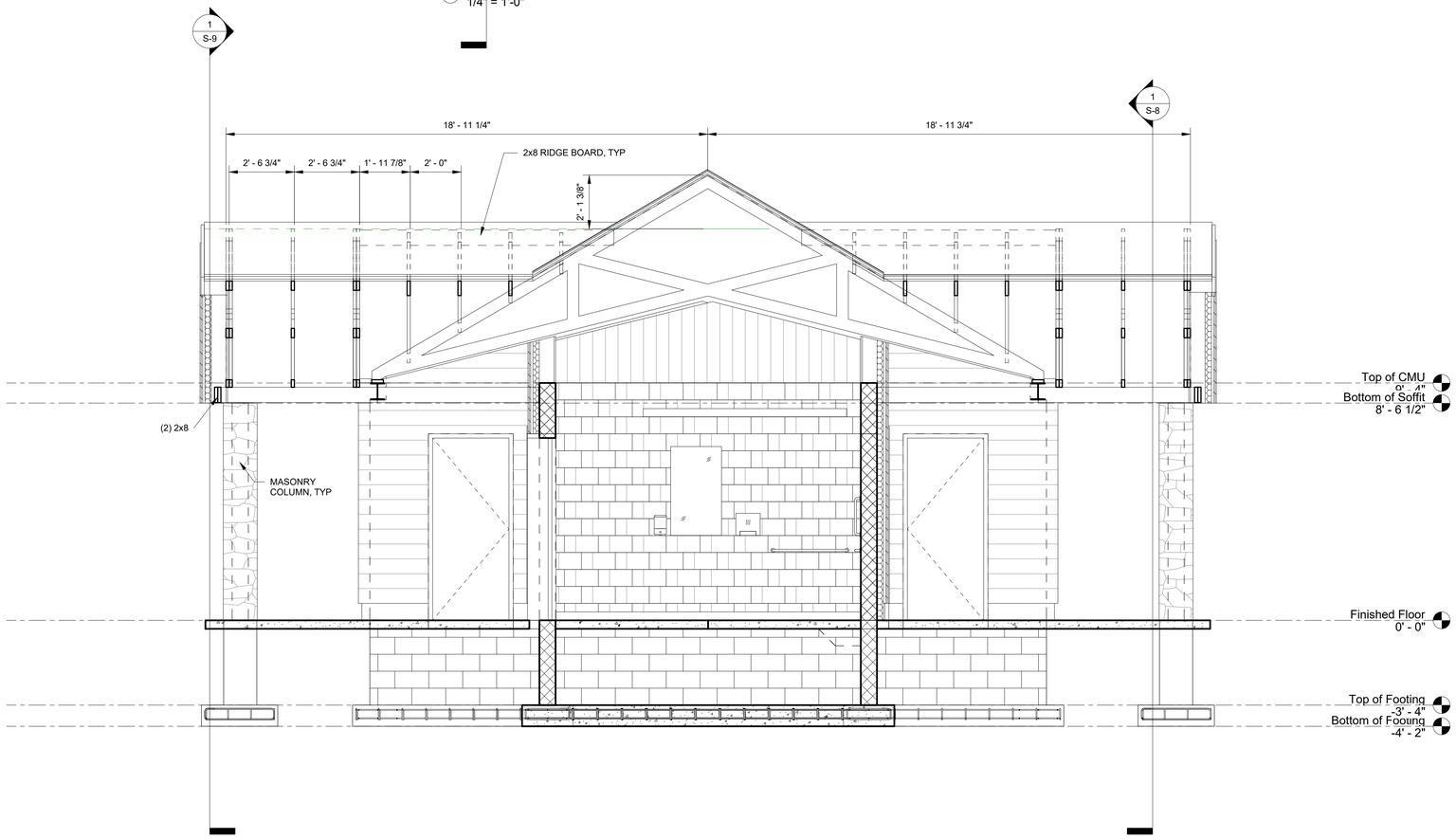


1 Loop C Cross Section 2
1/4" = 1'-0"



2 Loop C Cross Section Through Entrance
3/8" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

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11/19/2021
SIGNATURE DATE

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C SECTIONS, SHEET 2

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
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DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-8
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

89 OF 144

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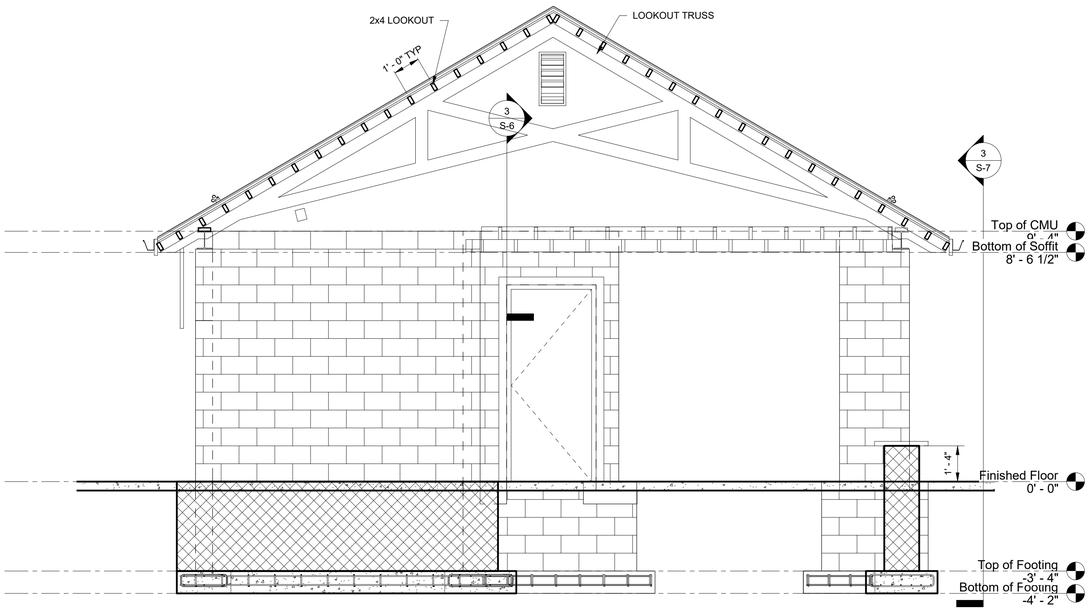
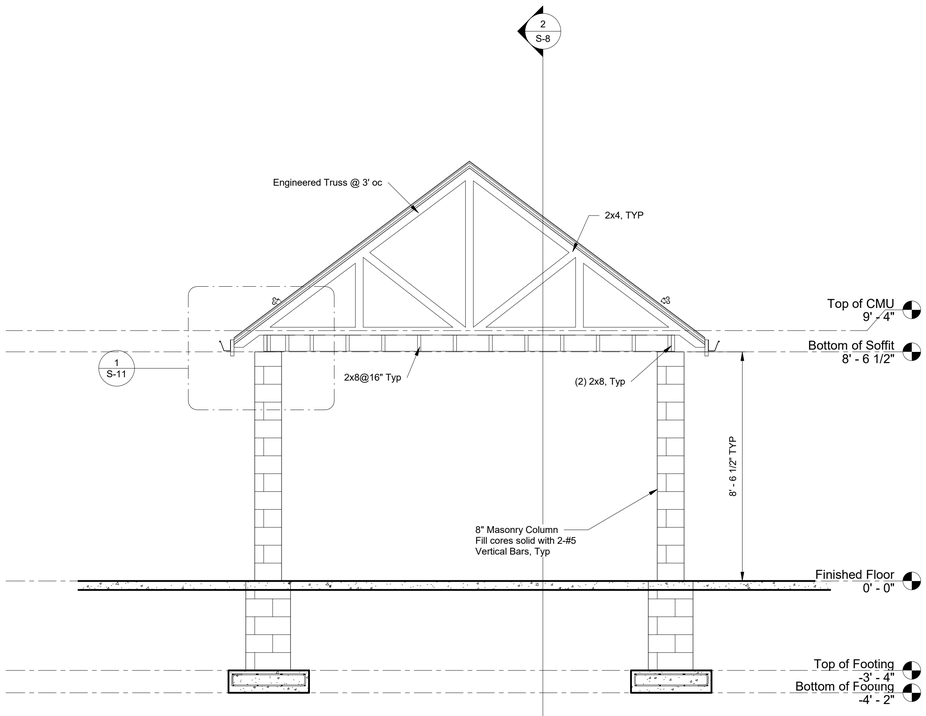


2 Loop C Lookouts
3/8" = 1'-0"



1 Loop C Entrance Section
3/8" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE044541E

11/19/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C SECTIONS, SHEET 3

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-9
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

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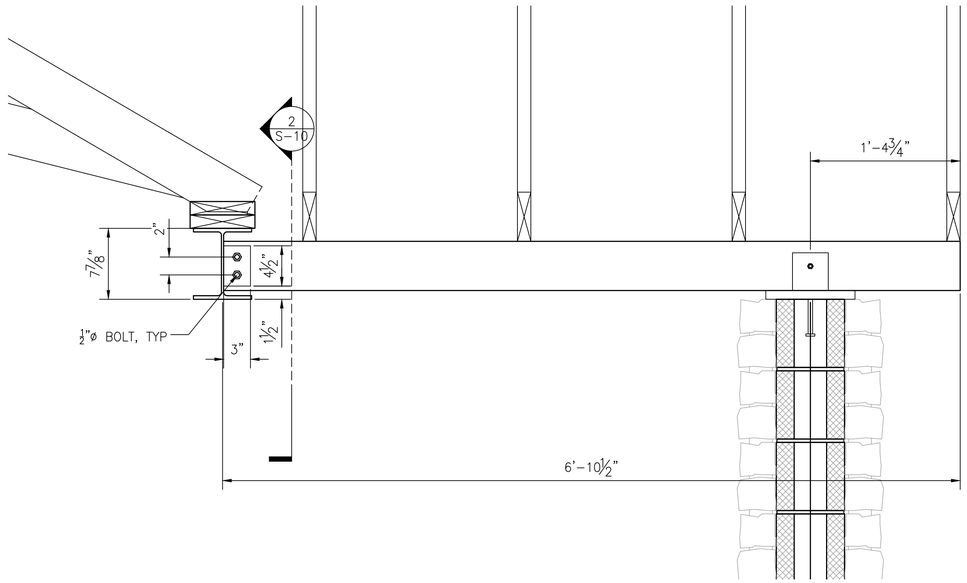
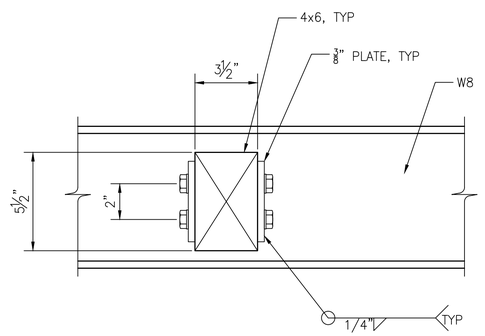


1 S-10 SECTION
TIMBER BEAM 1 1/2"=1'-0"



2 S-10 SECTION
TIMBER/STEEL CONNECTION 1 1/2"=1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE040418
COMMONWEALTH OF PENNSYLVANIA

11/19/21
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C DETAILS – SHEET 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
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CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY *M DIMONTE*	DATE 06/17/2022	DRAWING No. S-10
CHECKED BY *J ADAMS*	SCALE AS NOTED	91 OF 144

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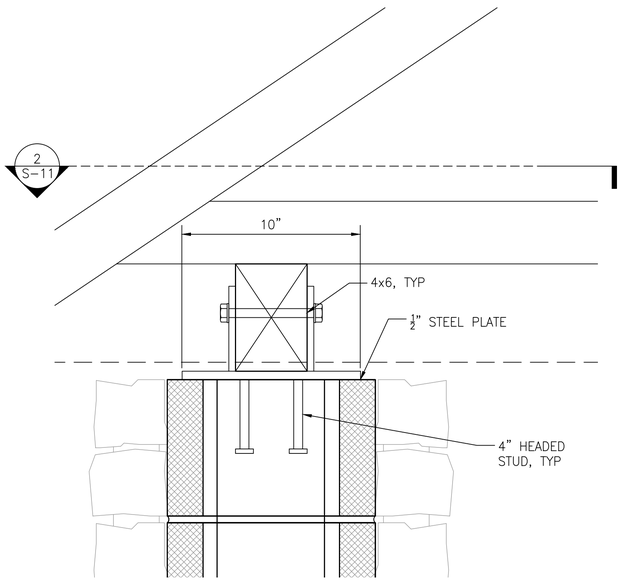
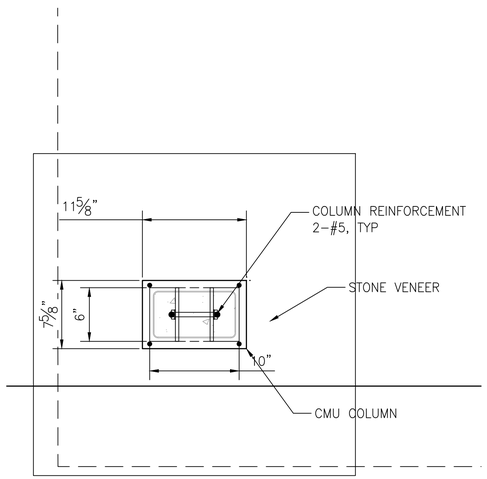


1 S-11 DETAIL
BEAM/COLUMN CONNECTION 3"=1'-0"



2 S-11 SECTION
1 1/2"=1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

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REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE040418
COMMONWEALTH OF PENNSYLVANIA

11/19/21
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP C DETAILS – SHEET 2

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	M DIMONTE	DATE	06/17/2022
CHECKED BY	J ADAMS	SCALE	AS NOTED

DRAWING No. S-11
92 OF 144

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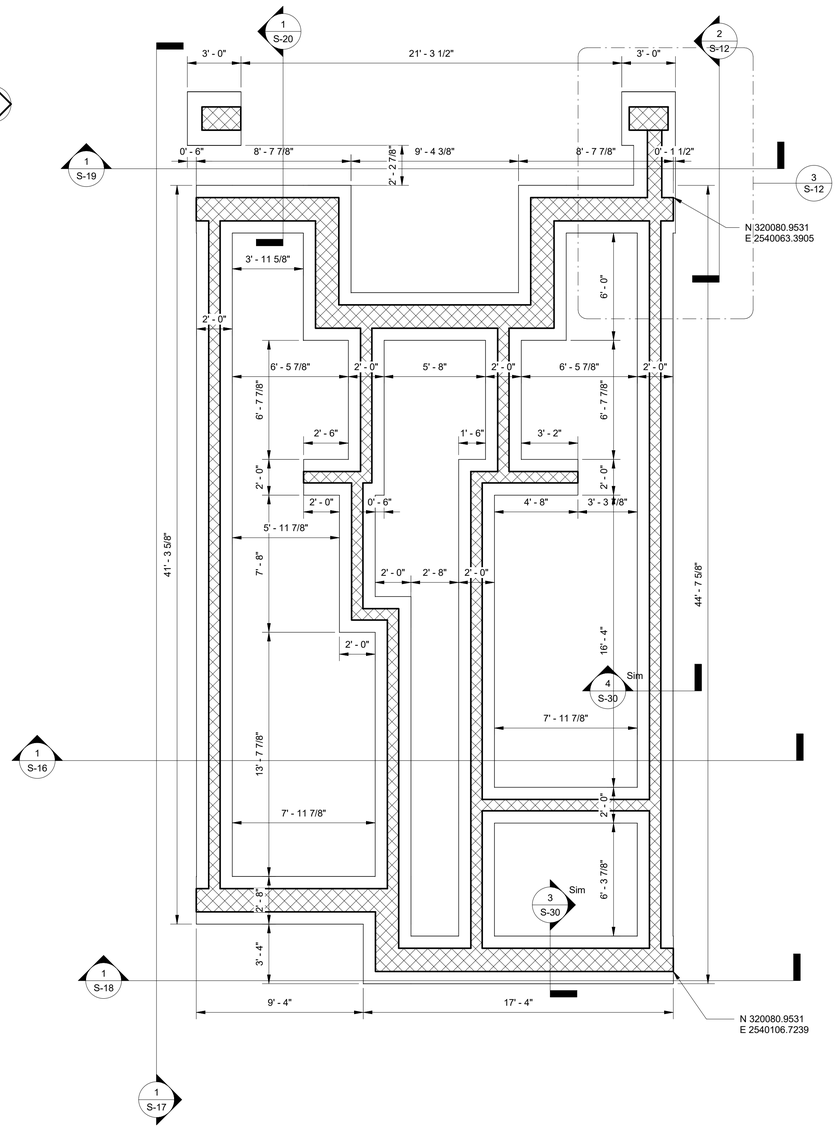
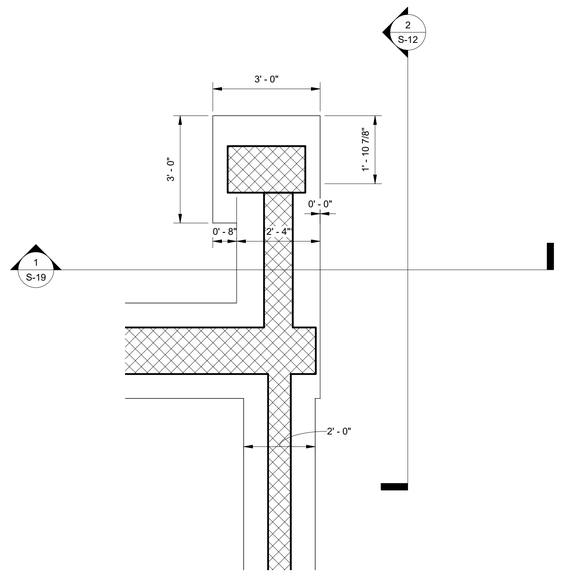
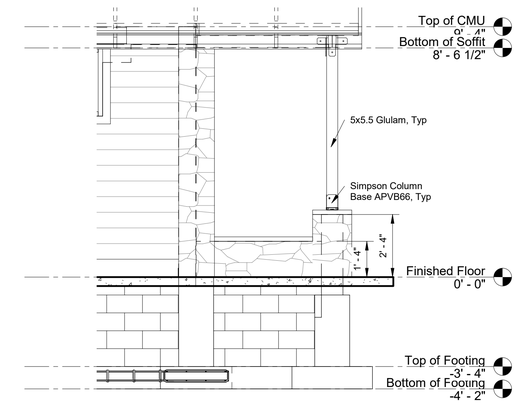


1 Footing - Tent Camp
1/4" = 1'-0"



3 Footing - Tent Camp - Callout 1
1/2" = 1'-0"



2 Bench Wall
3/8" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE044518
11/19/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TENT CAMP FOOTING PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-12
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

93 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Revit\Hickory Structural.rvt
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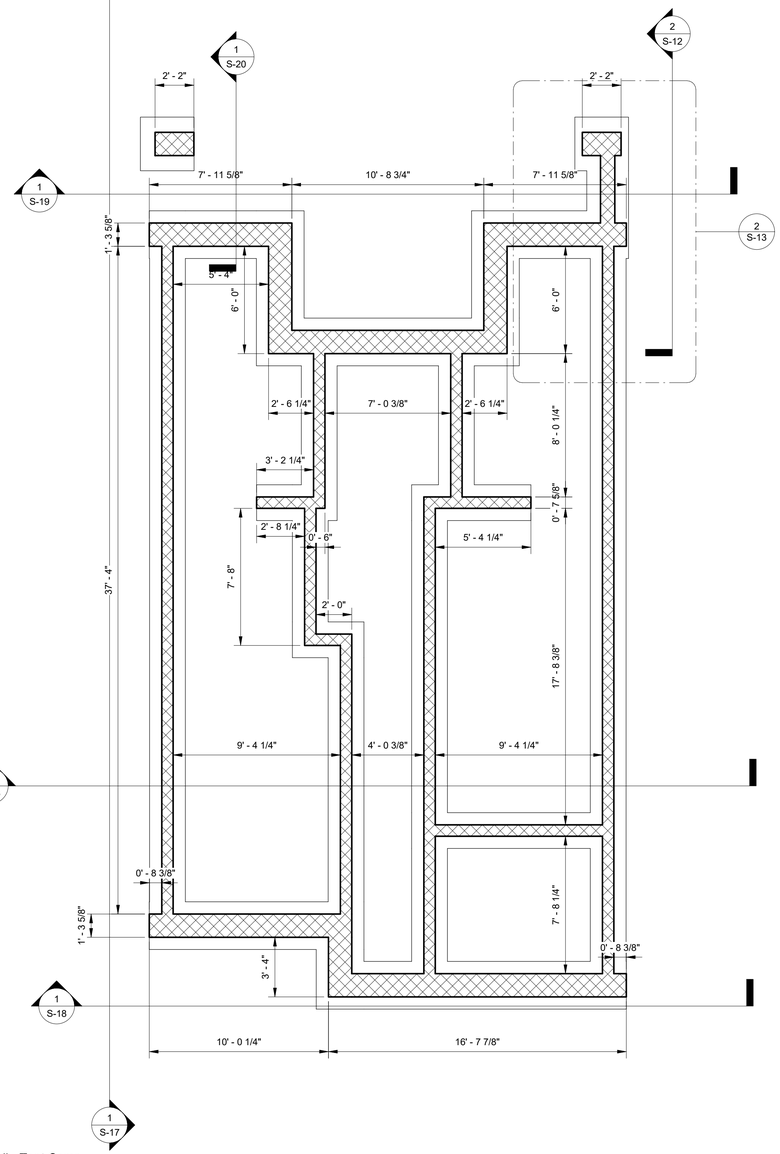
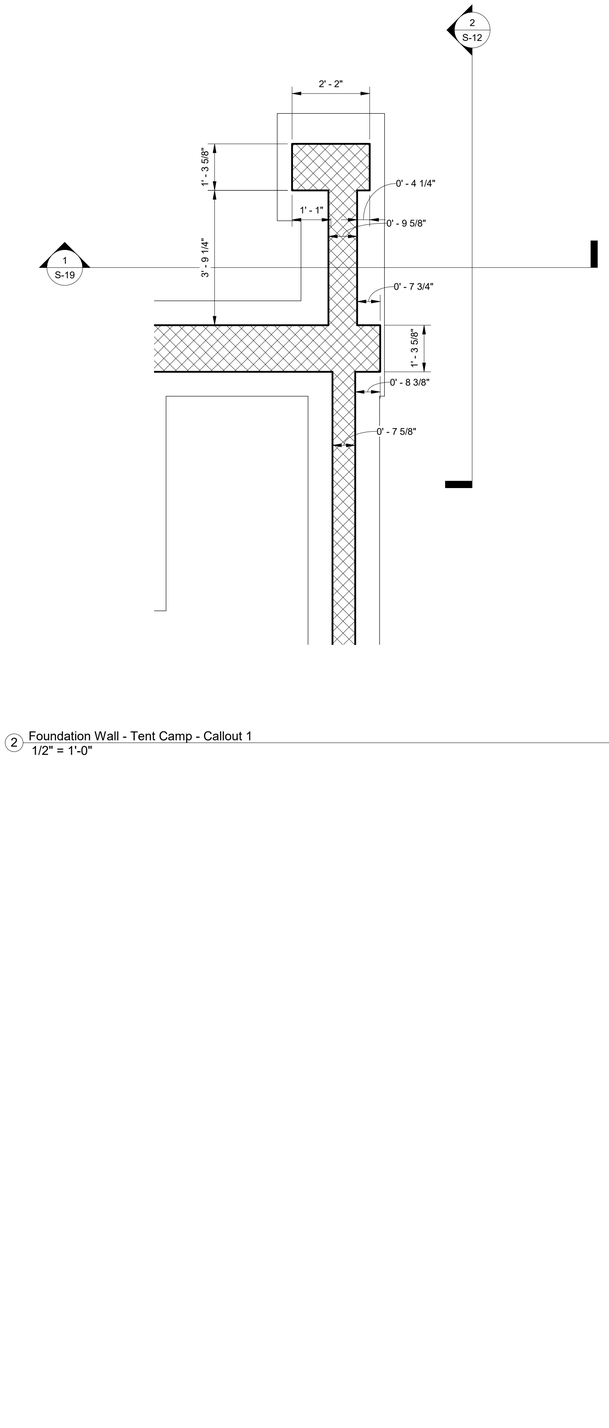


1 Foundation Wall - Tent Camp
1/4" = 1'-0"



2 Foundation Wall - Tent Camp - Callout 1
1/2" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JAMES WILLIAM ADAMS — ENGINEER — TEMPLE

11/19/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TENT CAMP FOUNDATION WALL PLAN

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-13
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

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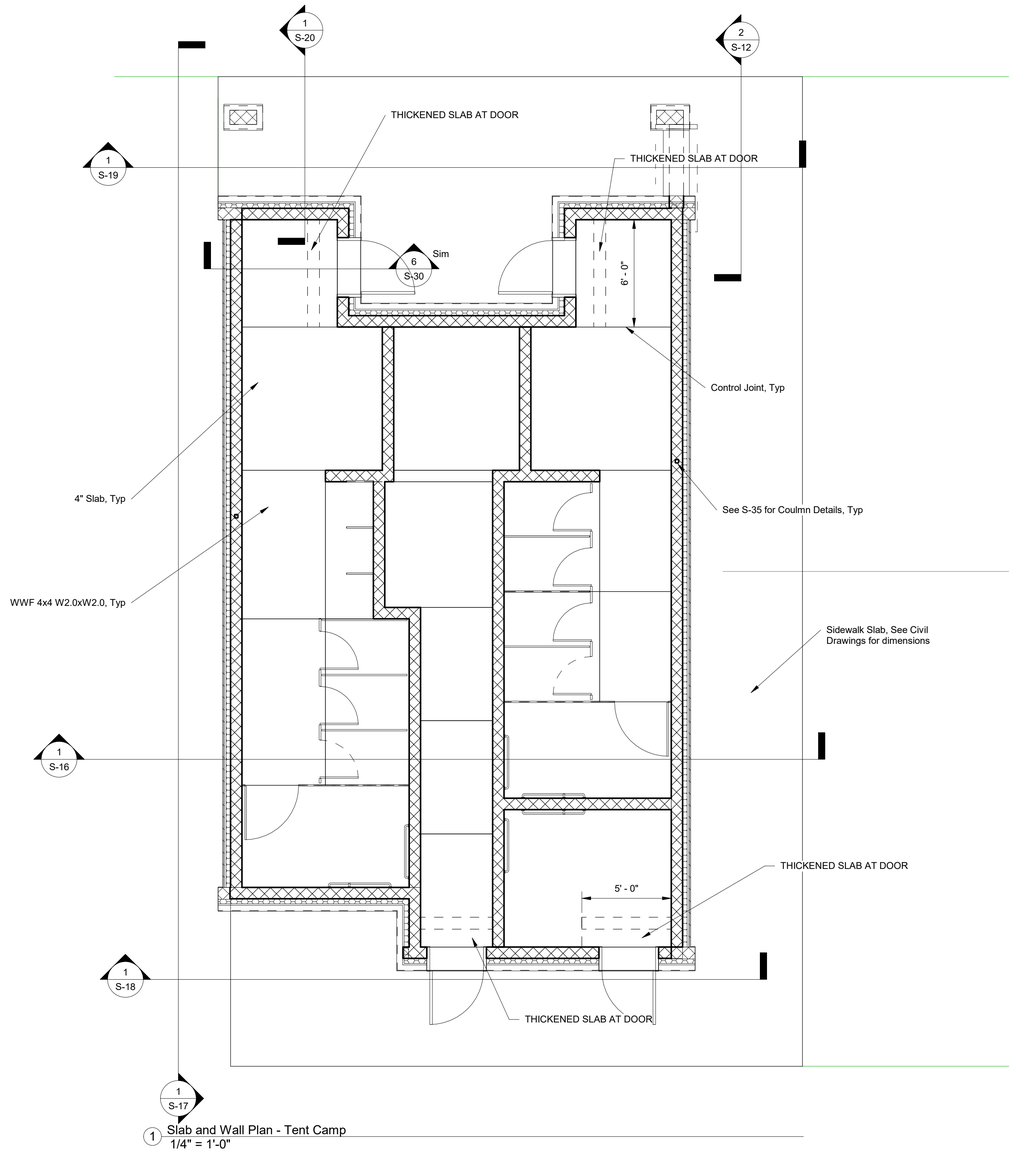

1 Slab and Wall Plan - Tent Camp
1/4" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123
melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JAMES WILLIAM ADAMS — ENGINEER — PENNSYLVANIA

11/19/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TENT CAMP SLAB AND WALL PLAN

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-14
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J ADAMS	AS NOTED	

95 OF 144

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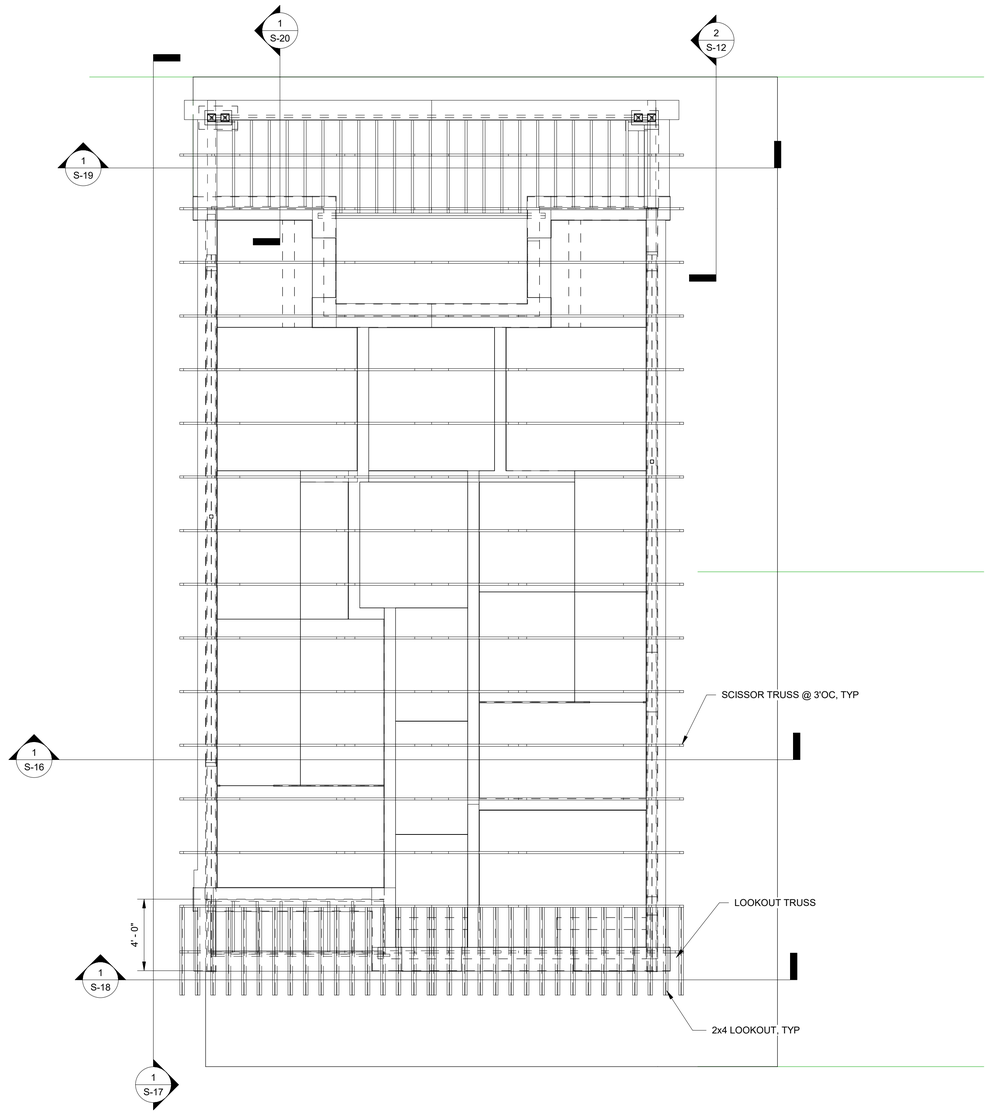

1 Roof - Tent Camp
1/4" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
LICENSED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
PE-PE044341E
11/19/2021
SIGNATURE DATE

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TENT CAMP ROOF PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
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DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-15
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J ADAMS	AS NOTED	

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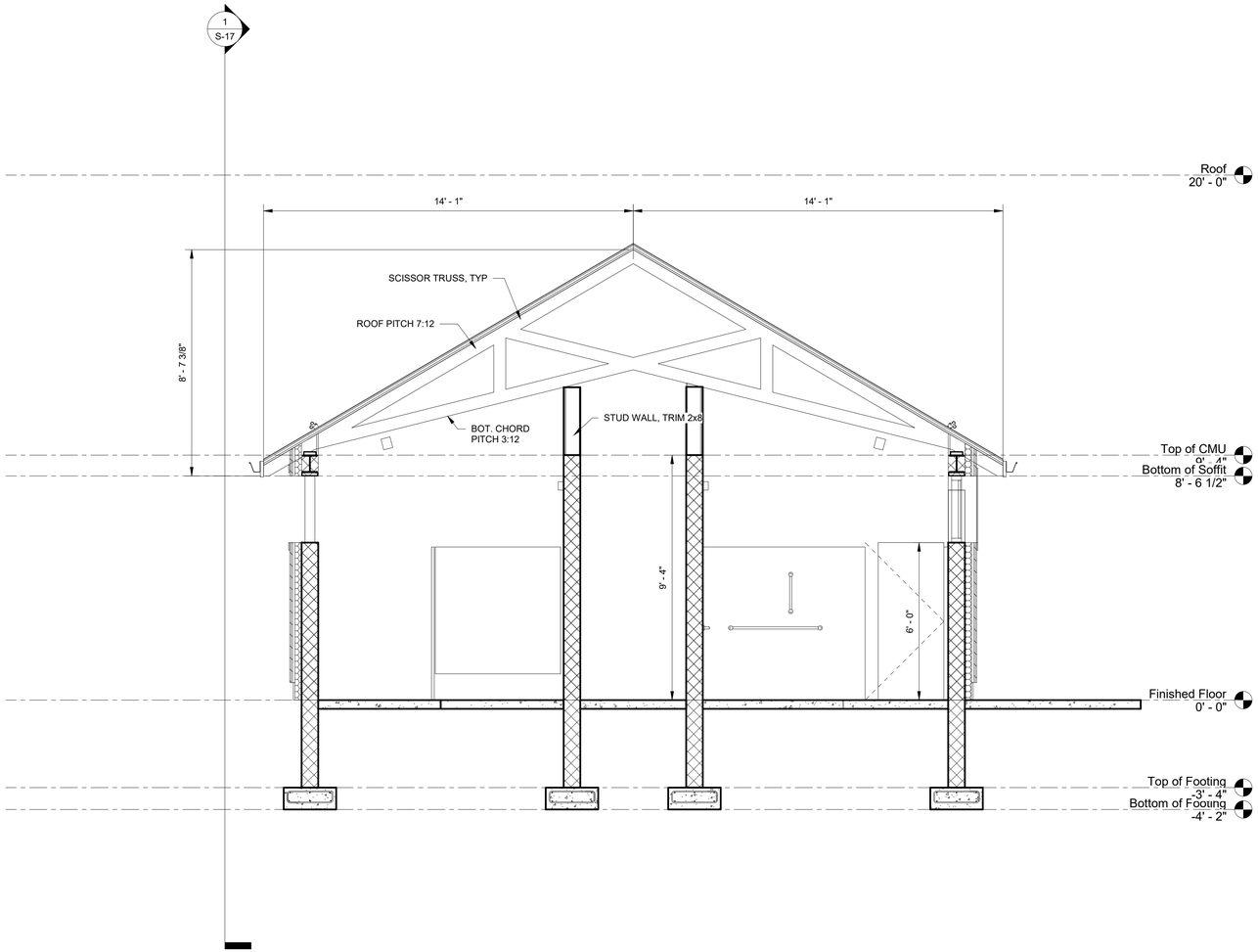

1 Tent Camp Cross Section 1
3/8" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
TEMPLE

11/19/2021
SIGNATURE DATE

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1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TENT CAMP SECTIONS, SHEET 1

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-16
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97 OF 144

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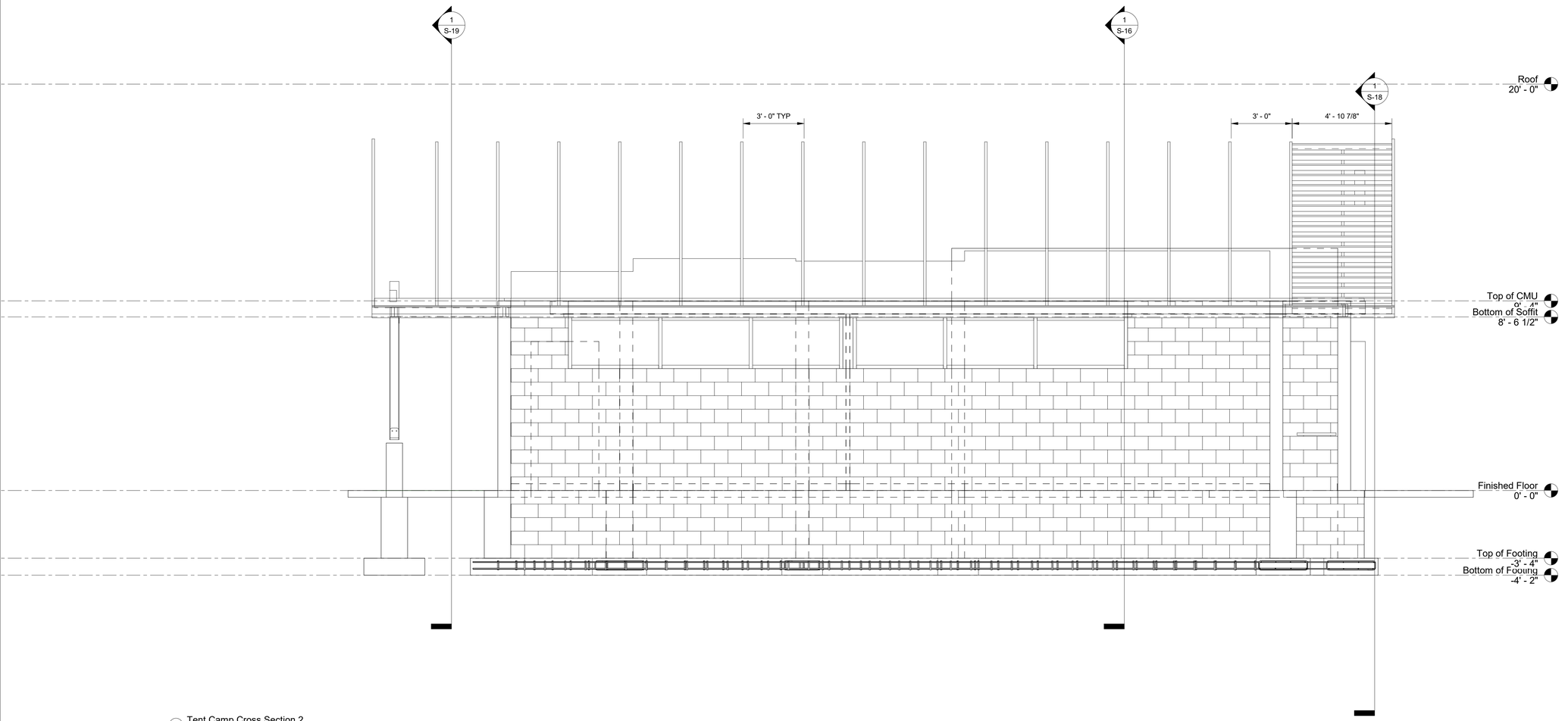

1 Tent Camp Cross Section 2
3/8" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ——— 1

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REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
PE-082434
11/19/2021
SIGNATURE DATE

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK LATRINE IMPROVEMENTS

DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TENT CAMP SECTIONS, SHEET 2

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-17
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J ADAMS	AS NOTED	

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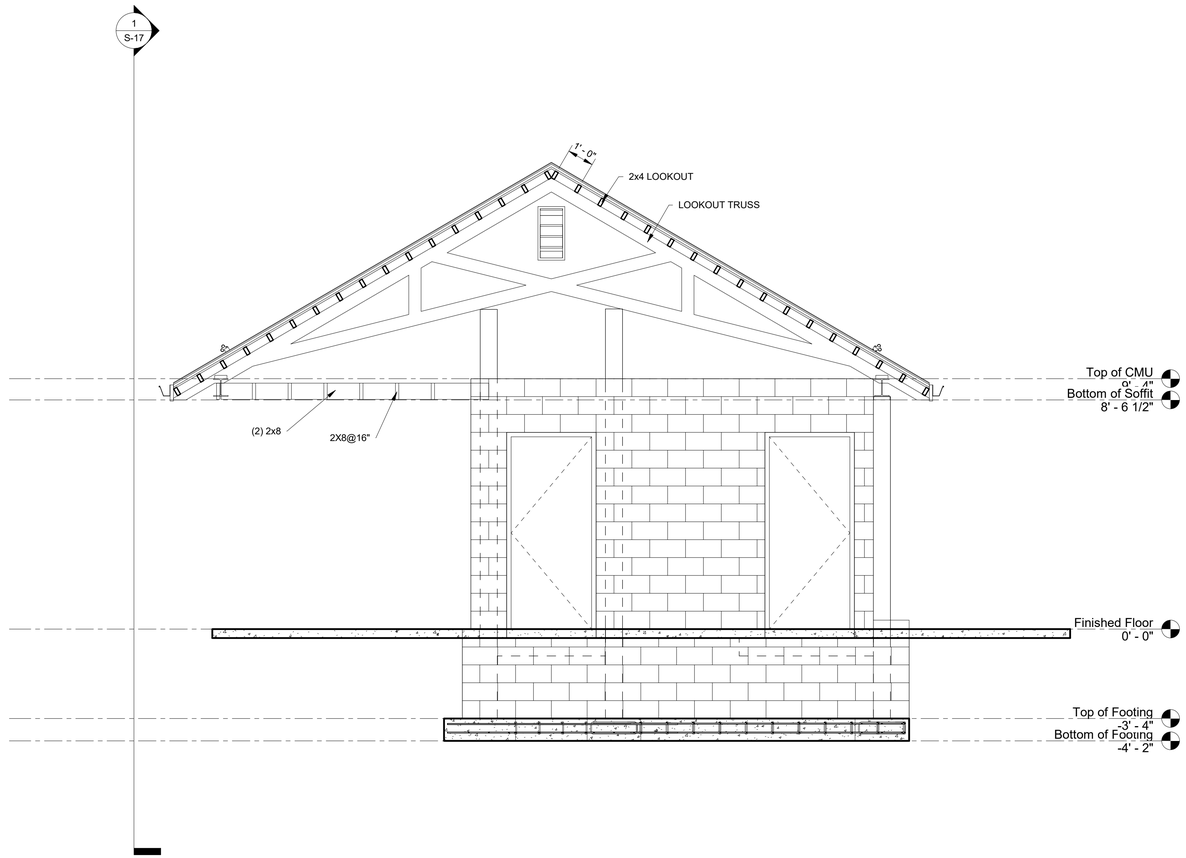

1 Tent Camp Lookouts
3/8" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
COMMONWEALTH OF PENNSYLVANIA

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TENT CAMP SECTIONS, SHEET 3

VERIFY SCALE

BAR IS ONE (1) INCH LONG
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0 1
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J ADAMS	06/17/2022	S-18
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J ADAMS	AS NOTED	

99 OF 144

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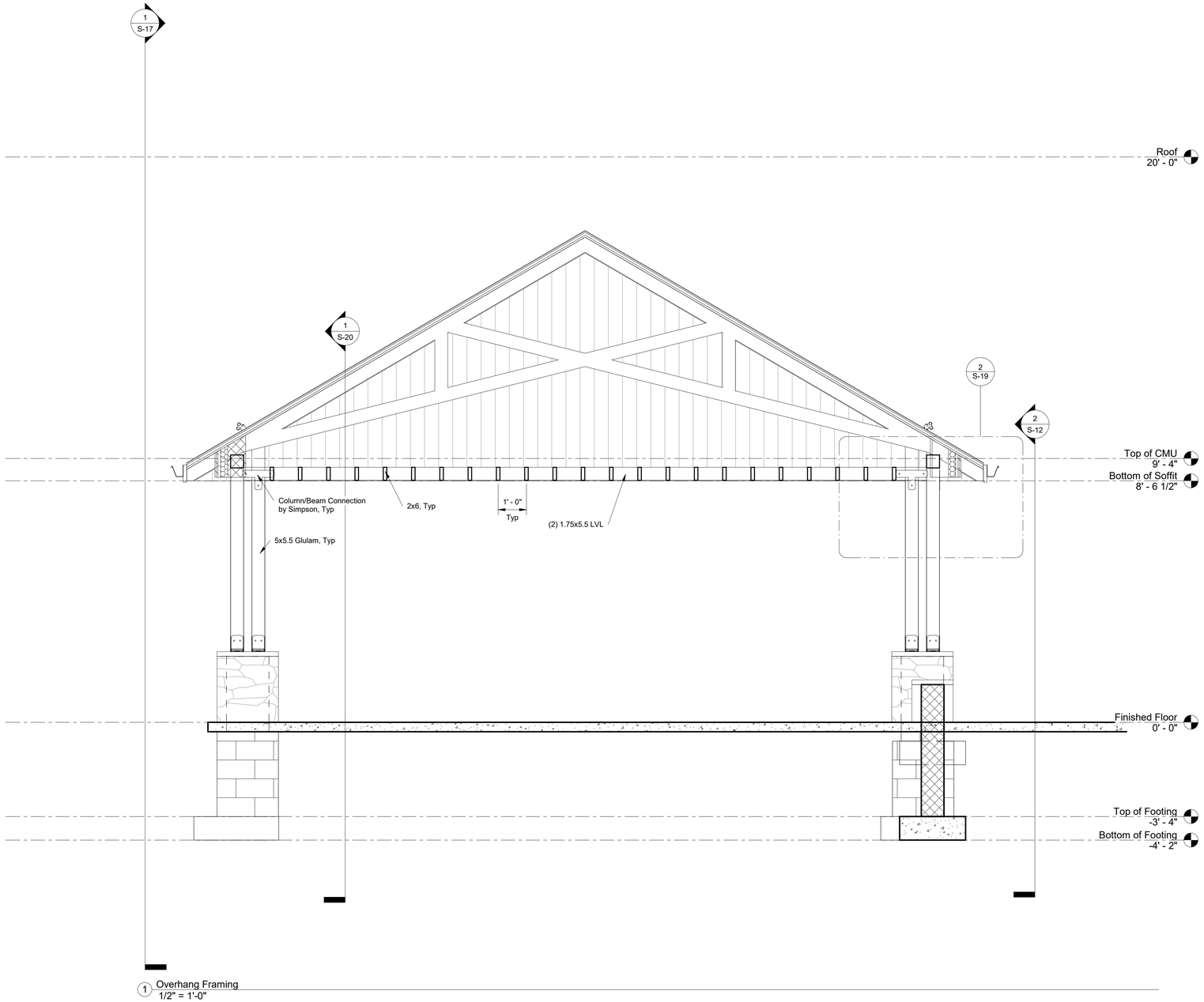
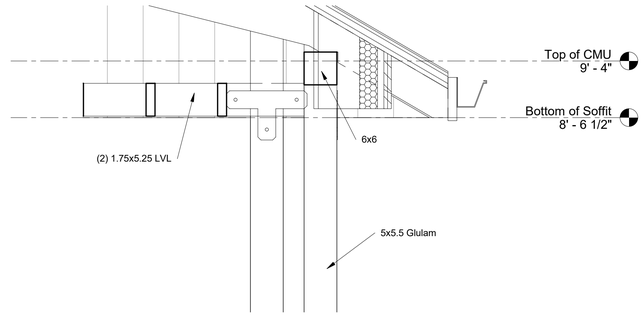


1 Overhang Framing
1/2" = 1'-0"



2 Section 29 - Callout 1
1" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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2
S-12

COMMONWEALTH OF PENNSYLVANIA
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JAMES WILLIAM ADAMS
ENGINEER

11/19/2021
SIGNATURE DATE

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HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TENT CAMP DETAILS, SHEET 1

VERIFY SCALE

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0 1
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DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-19
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

100 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Revit\Hickory Structural.rvt
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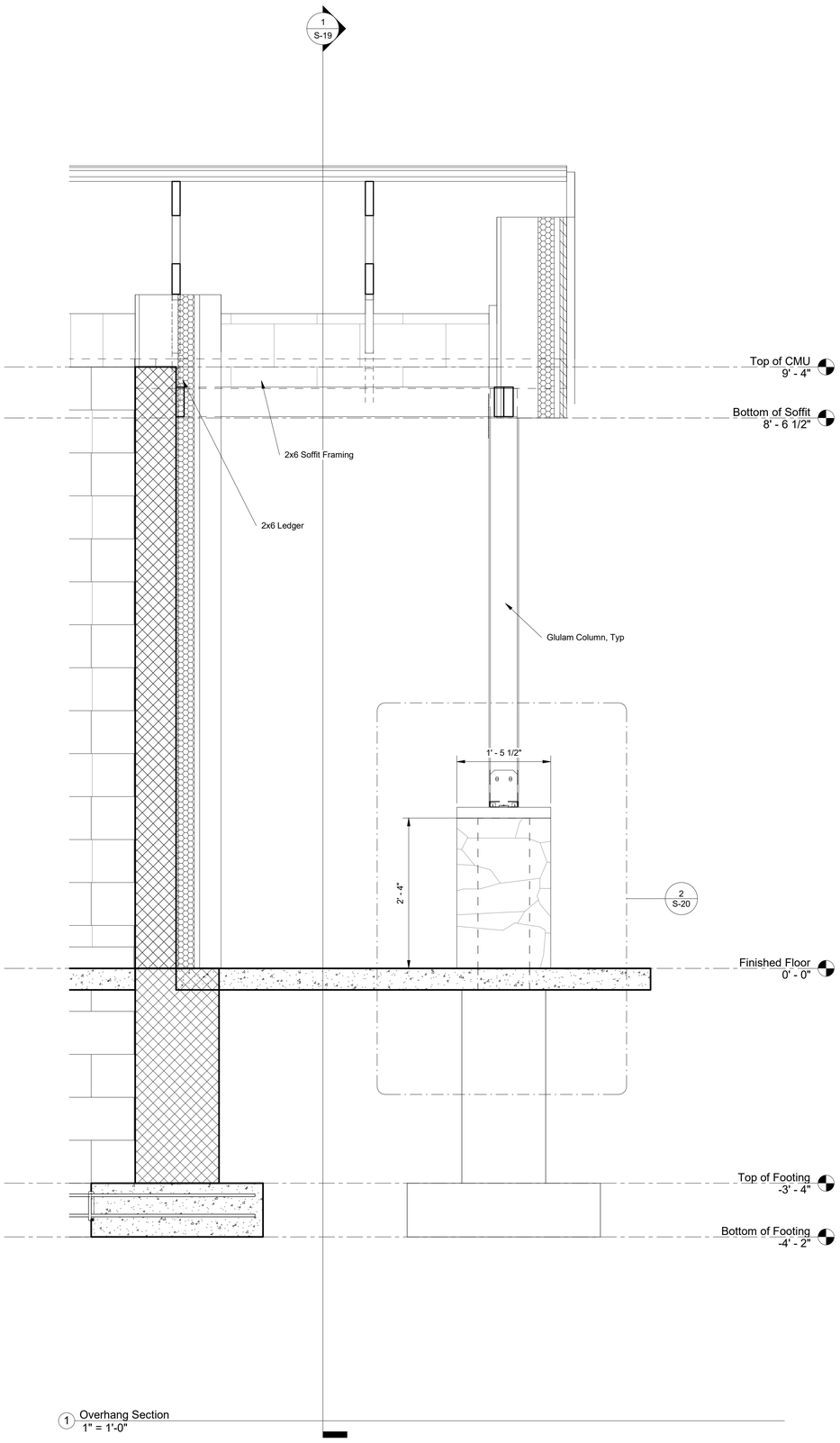
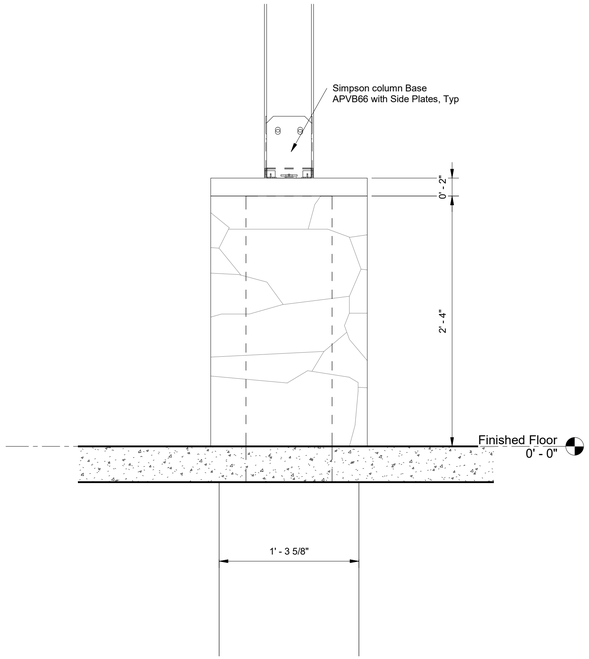


1 Overhang Section
1" = 1'-0"



2 Section 28 - Callout 1
1 1/2" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE044541E

11/19/2021
SIGNATURE DATE

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1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

TENT CAMP DETAILS, SHEET 2

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
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DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-20
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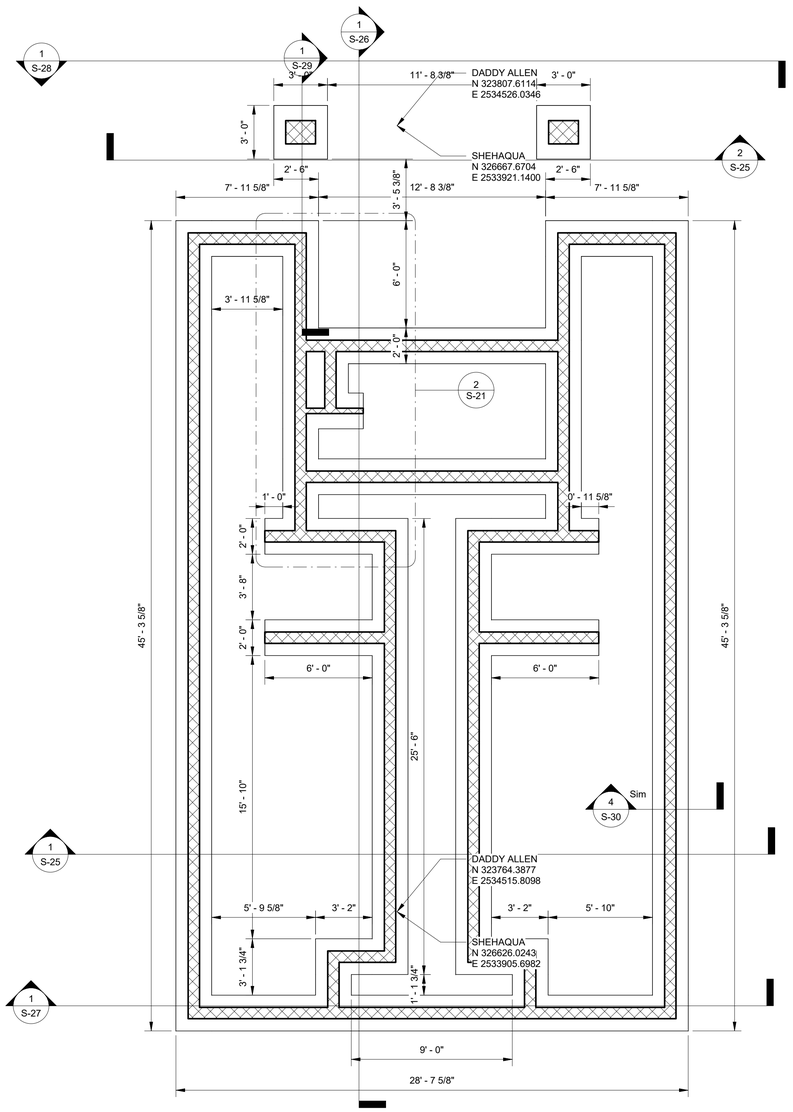
J ADAMS	AS NOTED	

101 OF 144

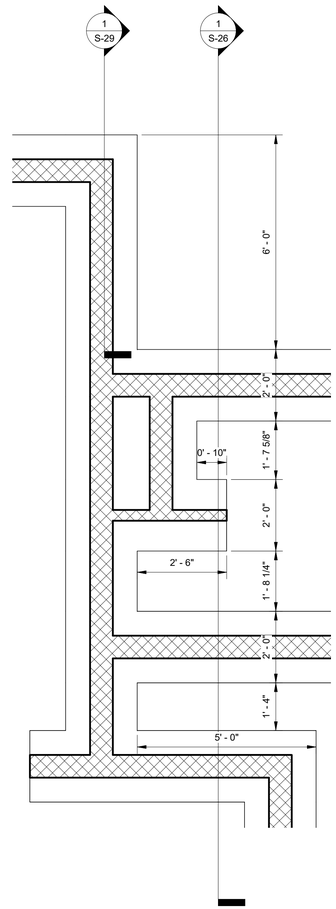
FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Revit\Hickory Structural.rvt
PLOTTED: 6/17/2022 10:38:18 AM

DADDY ALLEN-Bid 3

SHEHAQUA-Bid 2



1 Footing - Group Camp
1/4" = 1'-0"



2 Footing - Group Camp - Callout 1
1/2" = 1'-0"

NOTE - THIS SHEET SHOWS PLANS AND DETAILS FOR BOTH DADDY ALLEN AND FOR SHEHAQUA. DADDY ALLEN IS BID 3. SHEHAQUA IS BID 2

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

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CONSTRUCTION DOCUMENTS

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(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JAMES WILLIAM ADAMS ENGINEER TEMPLE

SIGNATURE 11/19/2021 DATE

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1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GROUP CAMP FOOTING PLAN

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-21
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J ADAMS	AS NOTED	

102 OF 144

FILEPATH: J:\2020\20027 - Hickory Run State Park\CAD\Revit\Hickory Structural.rvt
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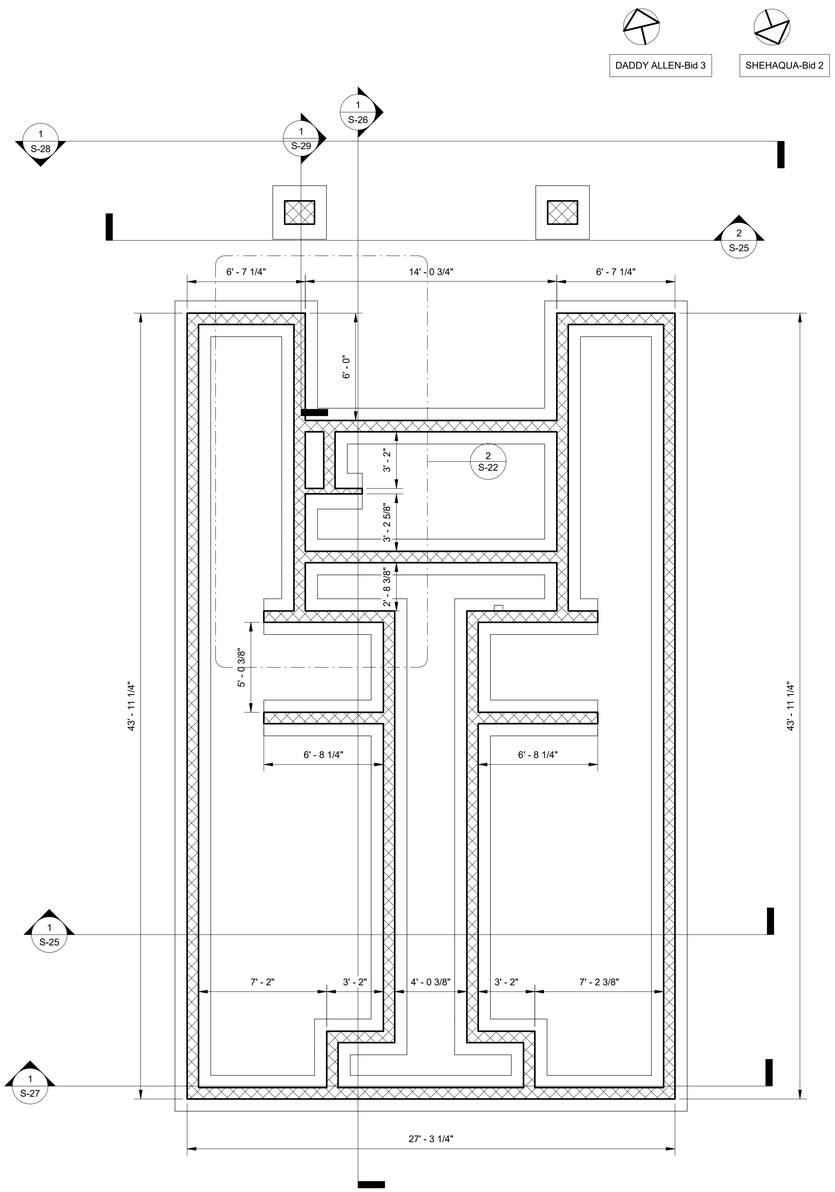
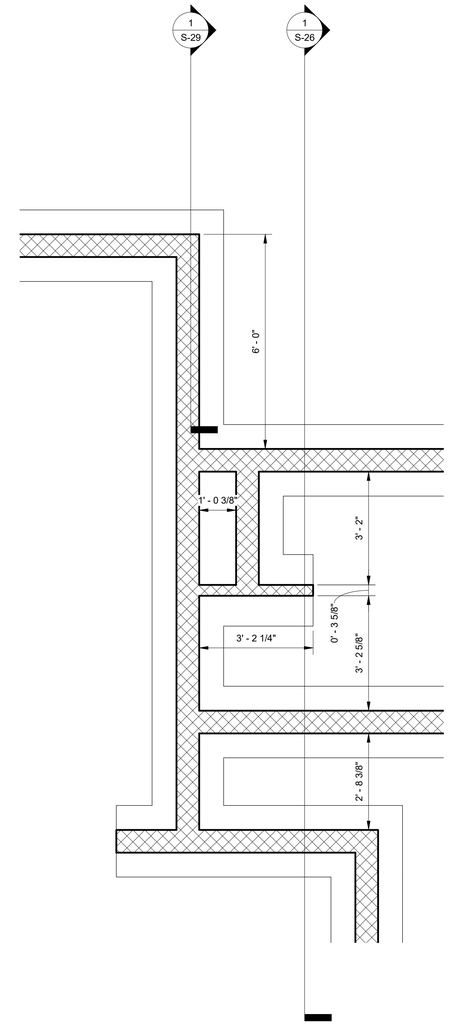


1 Foundation Wall - Group Camp
1/4" = 1'-0"



2 Foundation Wall - Group Camp - Callout 1
1/2" = 1'-0"

NOTE - THIS SHEET SHOWS PLANS AND DETAILS FOR BOTH DADDY ALLEN AND FOR SHEHAQUA. DADDY ALLEN IS BID 3. SHEHAQUA IS BID 2

NOTES:
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2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

VERIFY SCALE

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0 ■■■■■ 1

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE044518
SIGNATURE 11/19/2021 DATE

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1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GROUP CAMP FOUNDATION WALL PLAN

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-22
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Revit\Hickory Structural.rvt
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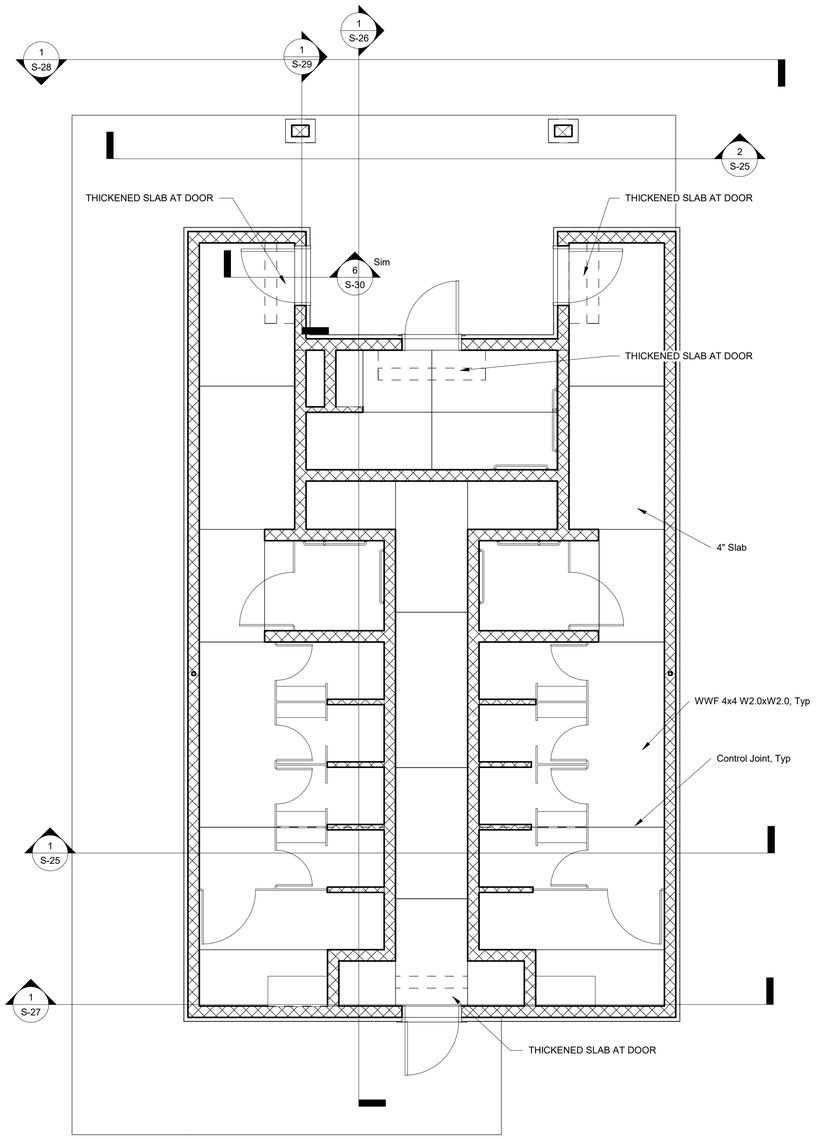

1 Slab and Wall Plan - Group Camp
1/4" = 1'-0"

DADDY ALLEN-Bid 3

SHEHAQUA-Bid 2

NOTE - THIS SHEET SHOWS PLANS AND DETAILS FOR BOTH DADDY ALLEN AND FOR SHEHAQUA. DADDY ALLEN IS BID 3. SHEHAQUA IS BID 2

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

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(610) 933-0123 melioradesign.com

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REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE044518
11/19/2021
SIGNATURE DATE

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GROUP CAMP SLAB AND WALL PLAN

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-23
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J ADAMS	AS NOTED	

104 OF 144

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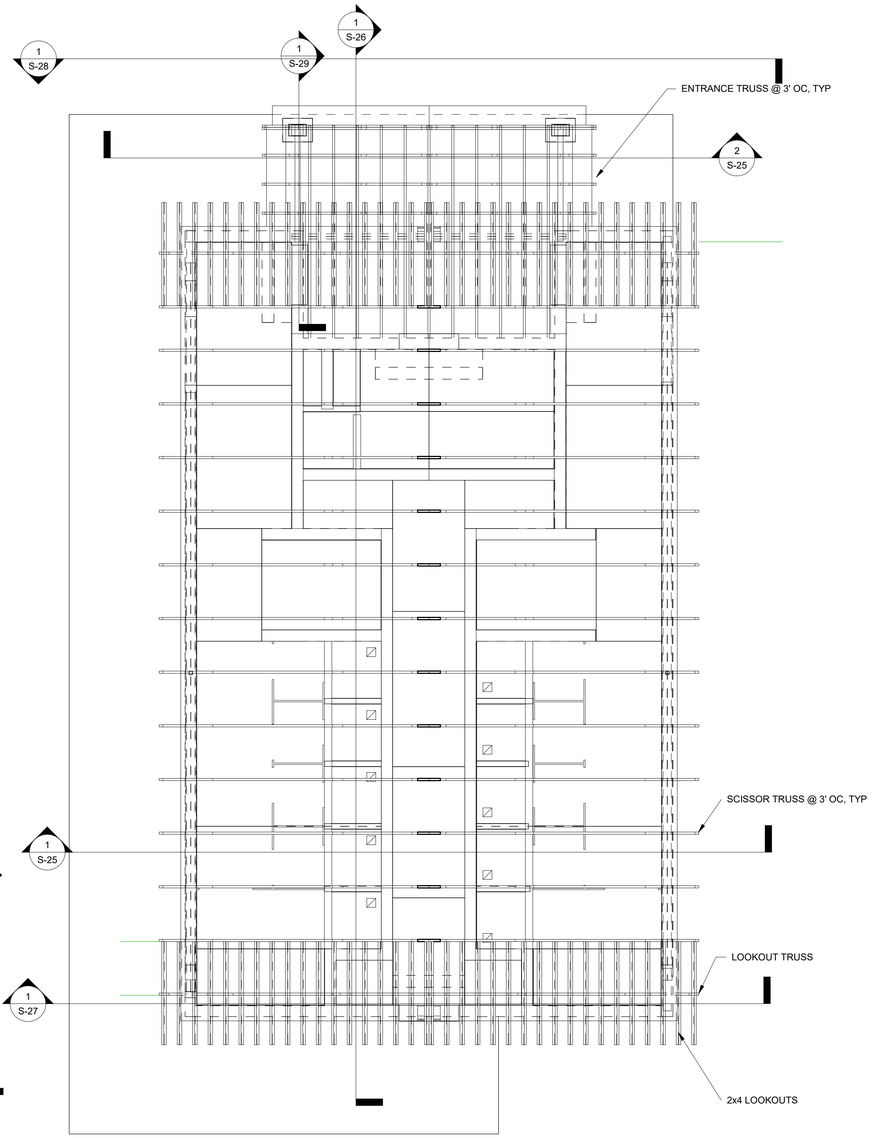

1 Roof - Group Camp
1/4" = 1'-0"

DADDY ALLEN-Bid 3

SHEHAQUA-Bid 2

NOTE - THIS SHEET SHOWS PLANS AND DETAILS FOR BOTH DADDY ALLEN AND FOR SHEHAQUA. DADDY ALLEN IS BID 3. SHEHAQUA IS BID 2

NOTES:
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2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

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melioradesign.com

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REGISTERED PROFESSIONAL
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ENGINEER
No. 70344519

SIGNATURE 11/19/2021 DATE

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GROUP CAMP ROOF PLAN

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-24
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

105 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Revit\Hickory Structural.rvt
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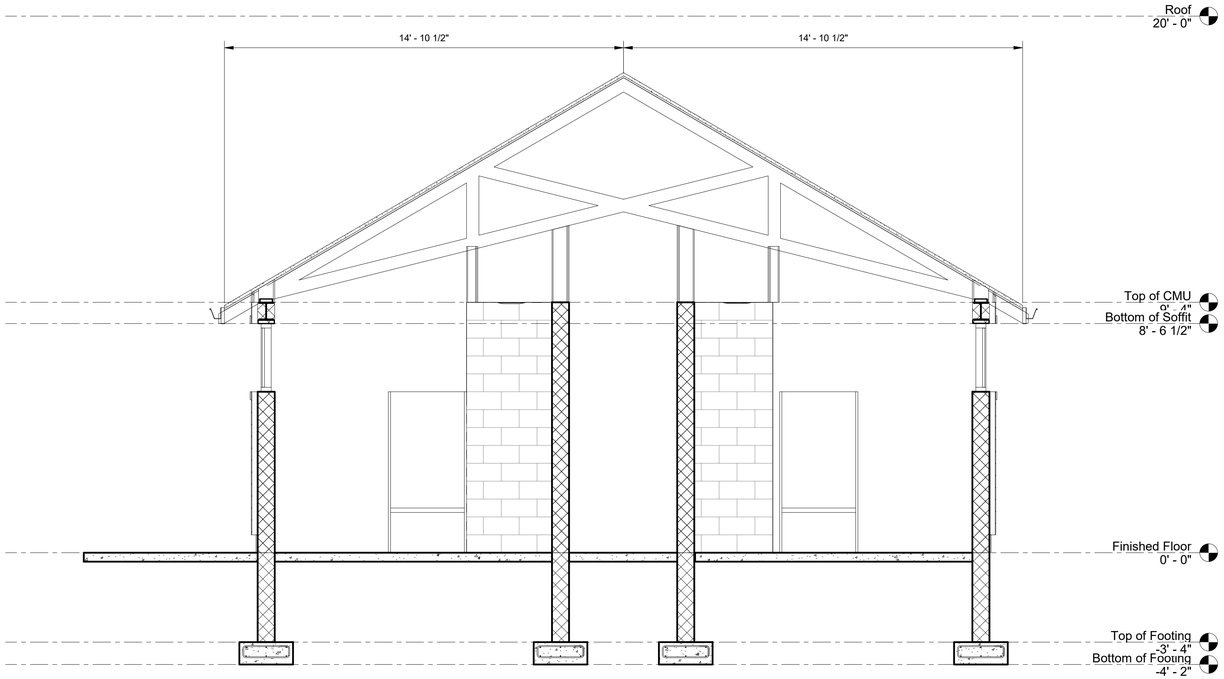
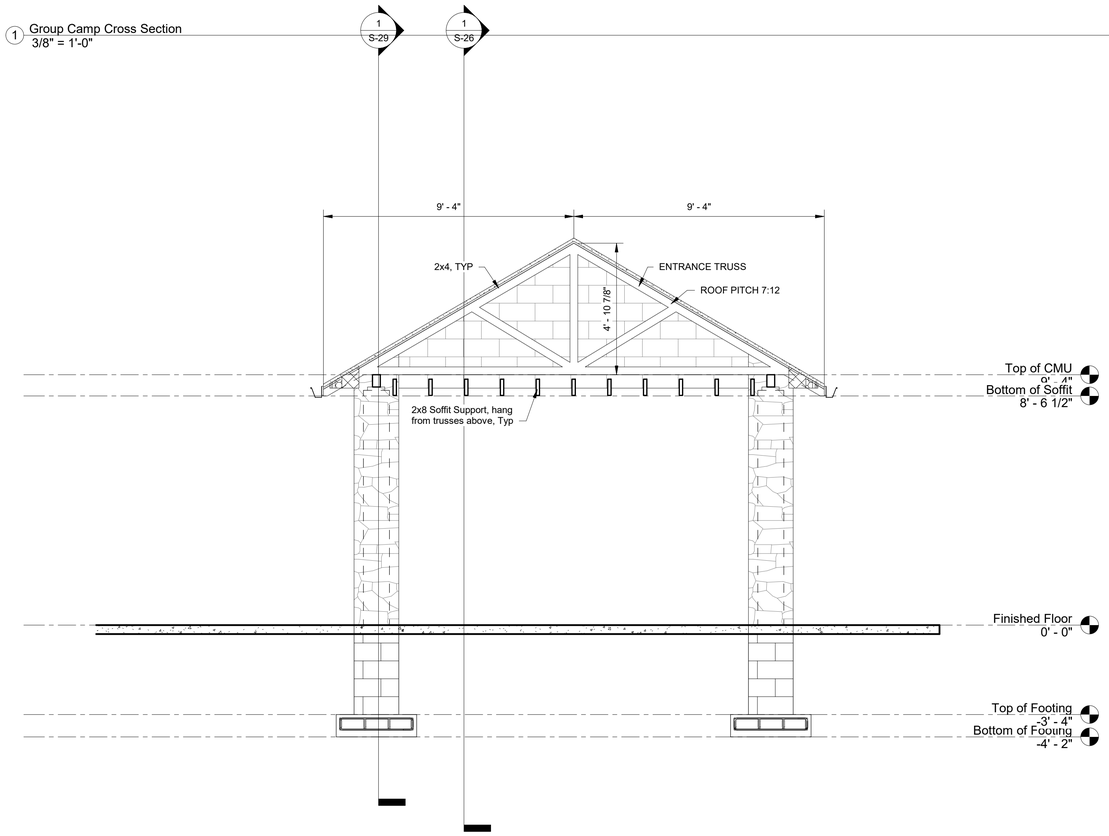


1 Group Camp Cross Section
3/8" = 1'-0"



2 Group Camp Entrance Section
3/8" = 1'-0"

NOTE - THIS SHEET SHOWS PLANS AND DETAILS FOR BOTH DADDY ALLEN AND FOR SHEHAQUA. DADDY ALLEN IS BID 3. SHEHAQUA IS BID 2

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

VERIFY SCALE

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CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE044541E

11/19/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GROUP CAMP SECTIONS, SHEET 1

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-25
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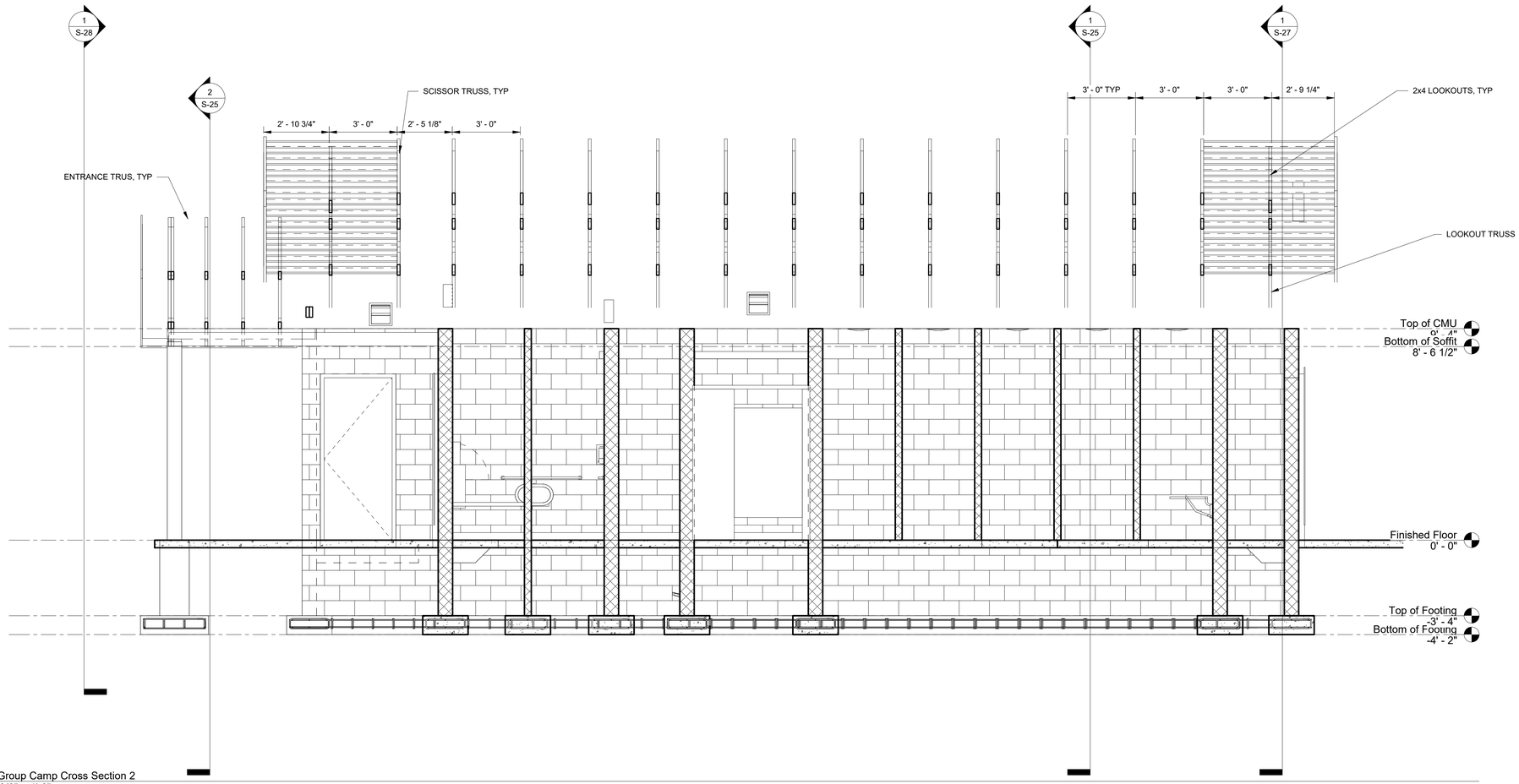

1 Group Camp Cross Section 2
3/8" = 1'-0"

NOTE - THIS SHEET SHOWS PLANS AND DETAILS FOR BOTH DADDY ALLEN AND FOR SHEHAQUA. DADDY ALLEN IS BID 3. SHEHAQUA IS BID 2

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GROUP CAMP SECTIONS, SHEET 2

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ——— 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-26
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J ADAMS	AS NOTED	

107 OF 144

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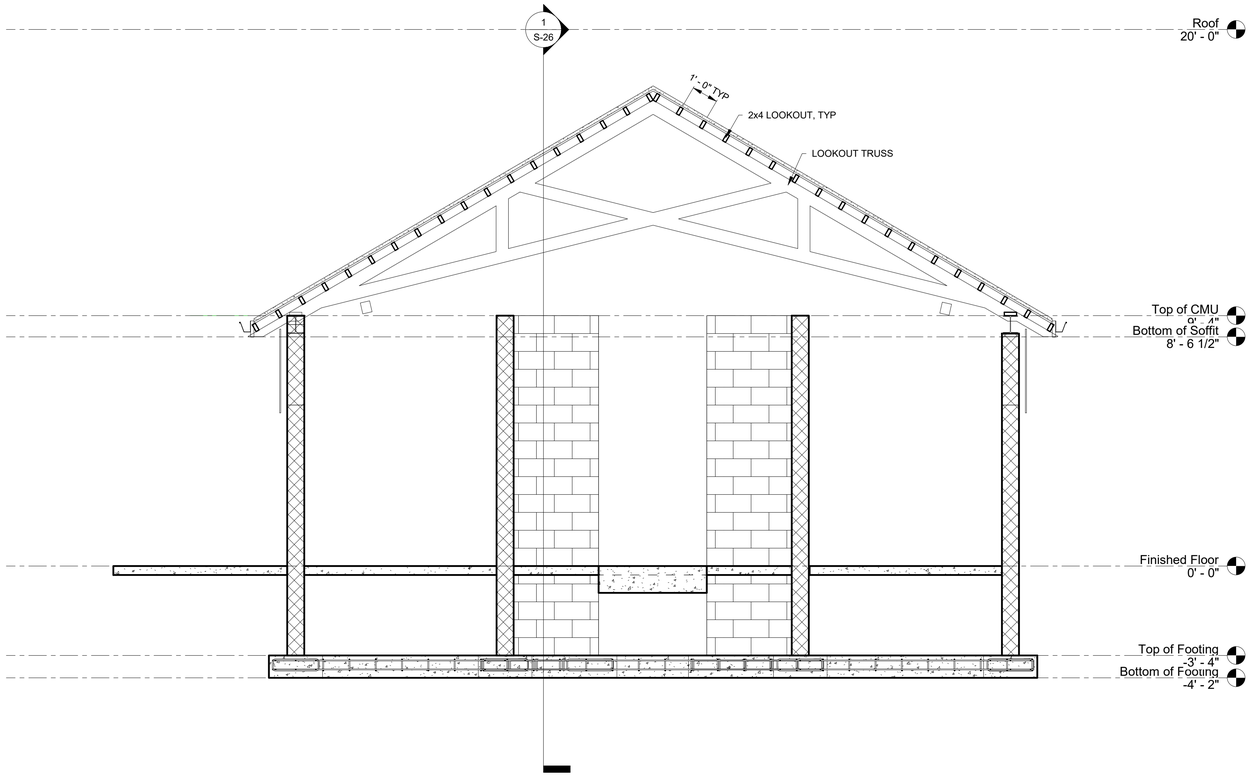
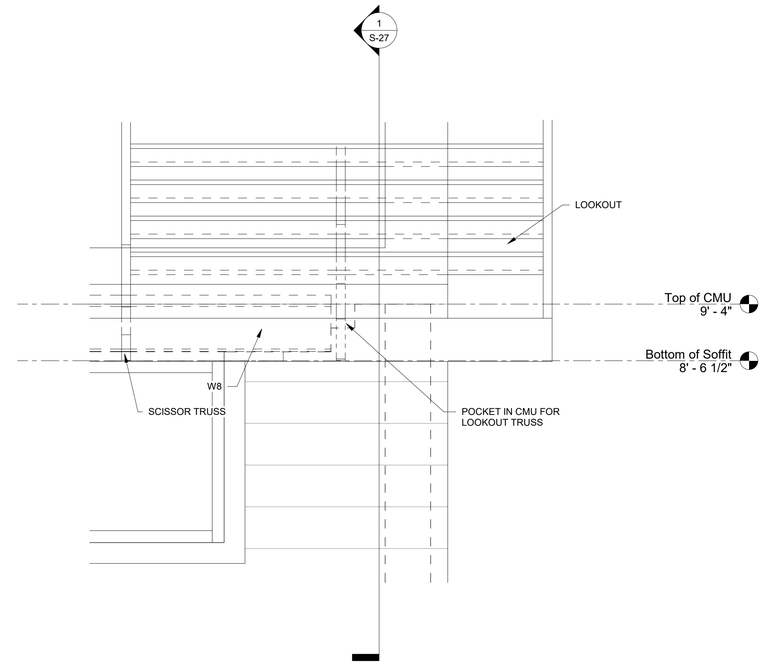


1 Group Camp Lookouts
3/8" = 1'-0"



2 Lookout Truss on CMU
1" = 1'-0"

NOTE - THIS SHEET SHOWS PLANS AND DETAILS FOR BOTH DADDY ALLEN AND FOR SHEHAQUA. DADDY ALLEN IS BID 3. SHEHAQUA IS BID 2

NOTES:
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2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

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PENNSYLVANIA

11/19/2021
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DEPARTMENT OF GENERAL SERVICES
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D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GROUP CAMP SECTIONS, SHEET 3

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

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J ADAMS	06/17/2022	S-27
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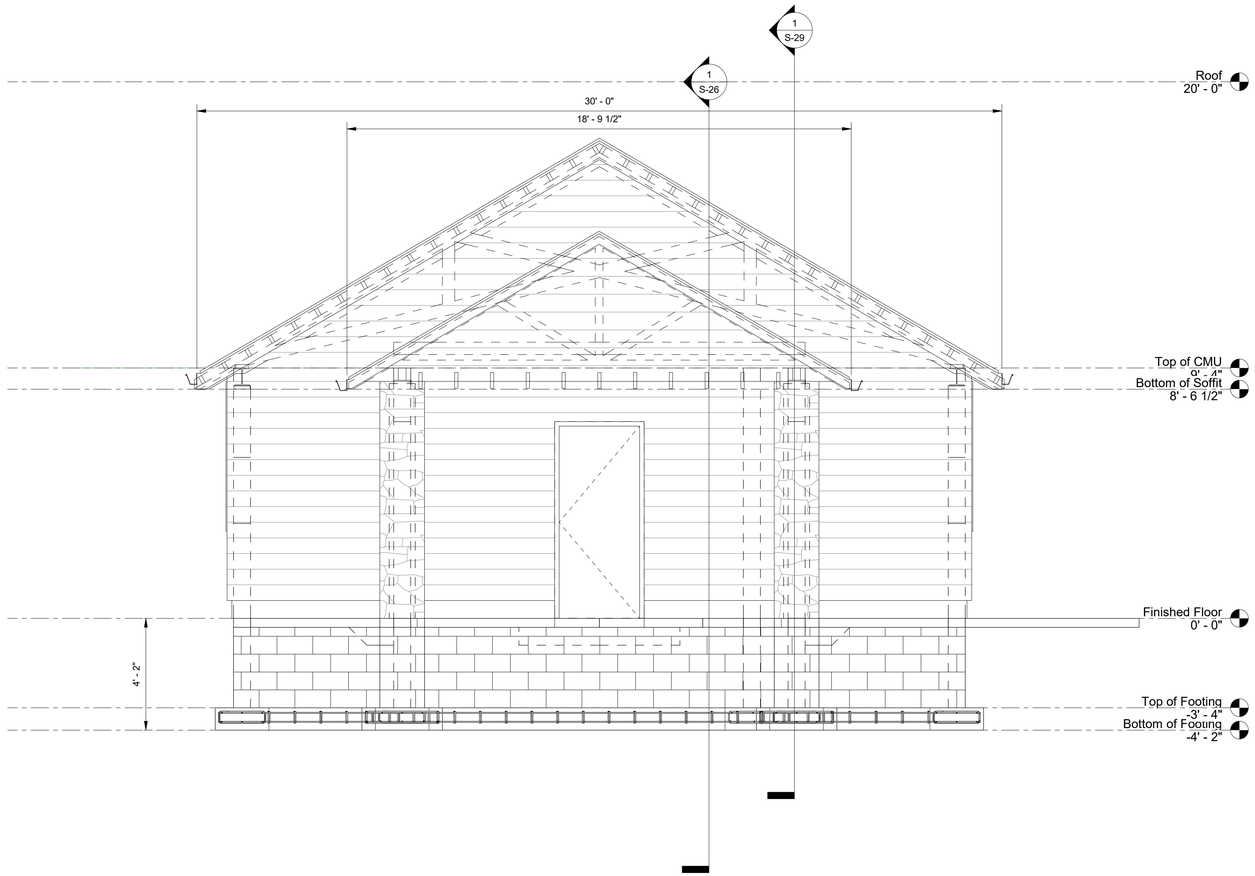

1 Section 58
3/8" = 1'-0"

NOTE - THIS SHEET SHOWS PLANS AND DETAILS FOR BOTH DADDY ALLEN AND FOR SHEHAQUA. DADDY ALLEN IS BID 3. SHEHAQUA IS BID 2

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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COMMONWEALTH OF PENNSYLVANIA
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ENGINEER
PE 042424E
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SIGNATURE DATE

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GROUP CAMP DETAILS, SHEET 1

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J ADAMS	06/17/2022	S-28
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J ADAMS	AS NOTED	

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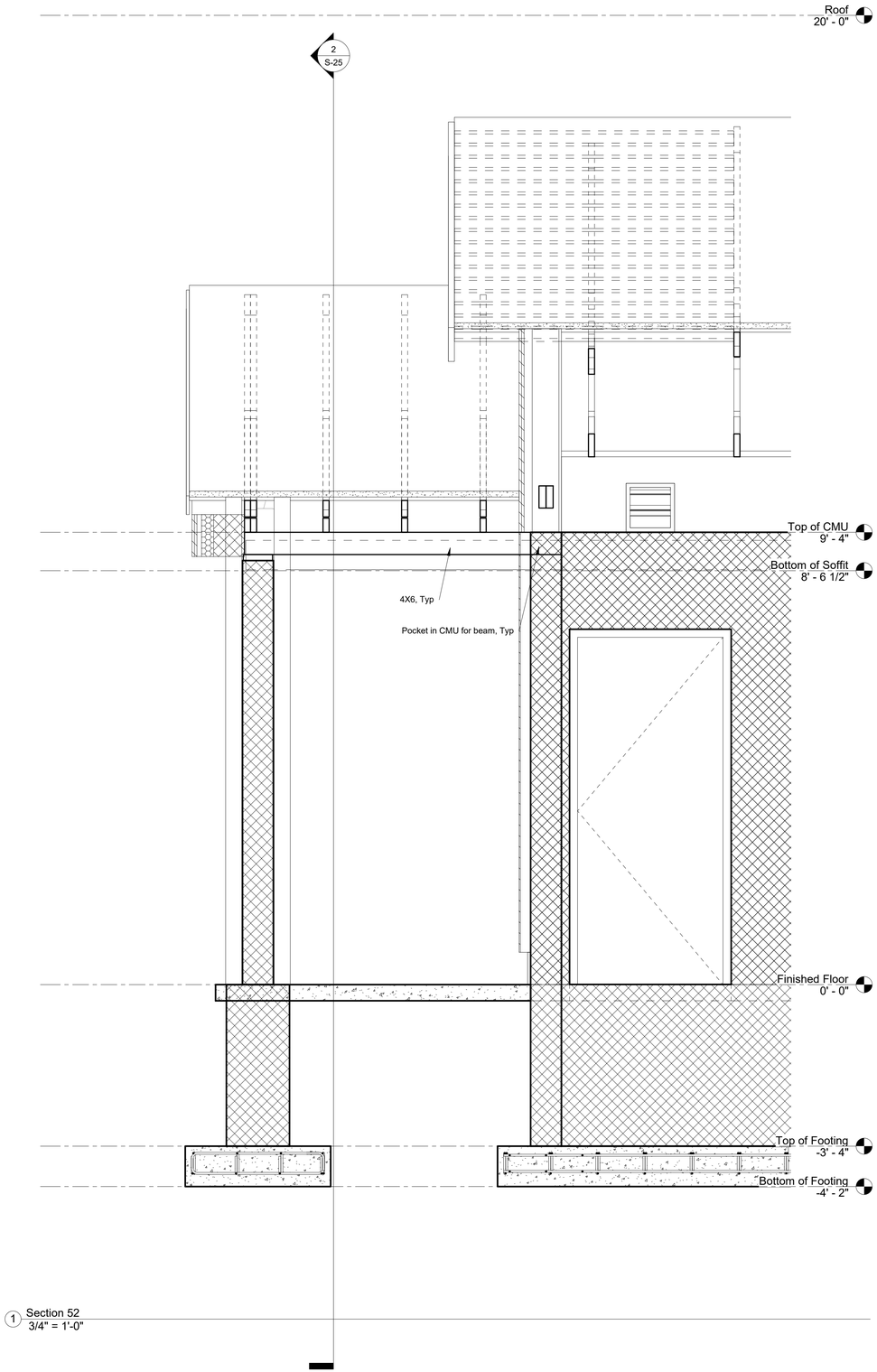

1 Section 52
3/4" = 1'-0"

NOTE - THIS SHEET SHOWS PLANS AND DETAILS FOR BOTH DADDY ALLEN AND FOR SHEHAQUA. DADDY ALLEN IS BID 3. SHEHAQUA IS BID 2

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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ENGINEER
PE044341E

11/19/2021
SIGNATURE DATE

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DEPARTMENT OF GENERAL SERVICES
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D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE
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0 1
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

GROUP CAMP DETAILS, SHEET 2

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-29
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J ADAMS	AS NOTED	

110 OF 144

FILE PATH: J:\2020\20027 - Hickory Run State Park\CAD\Revit\Hickory Structural.rvt
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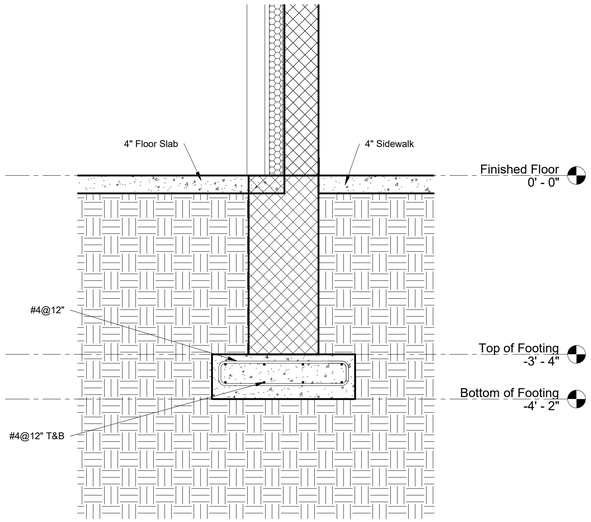
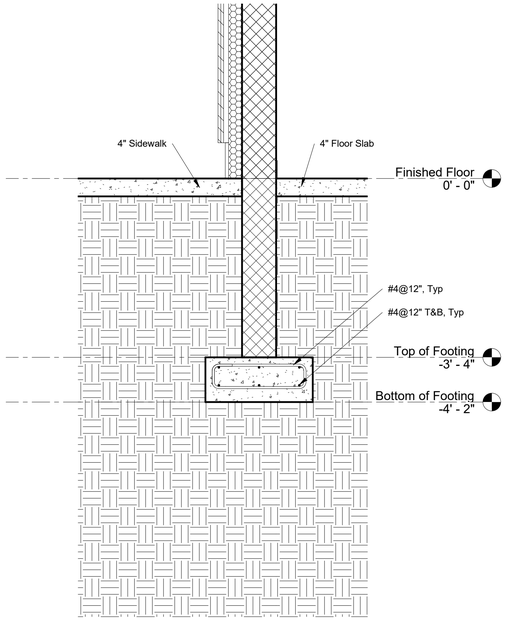
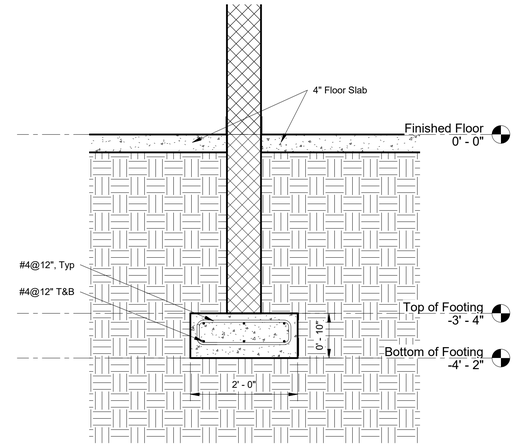


3 16" Wall Foundation
3/4" = 1'-0"

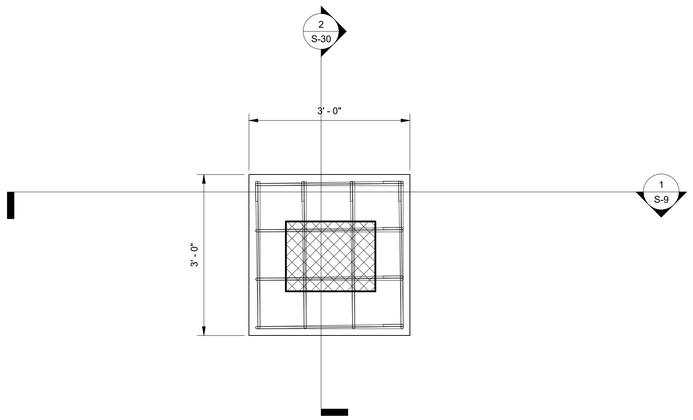
Note: All Foundations Walls shall be filled solid and have #4@16" vertical steel



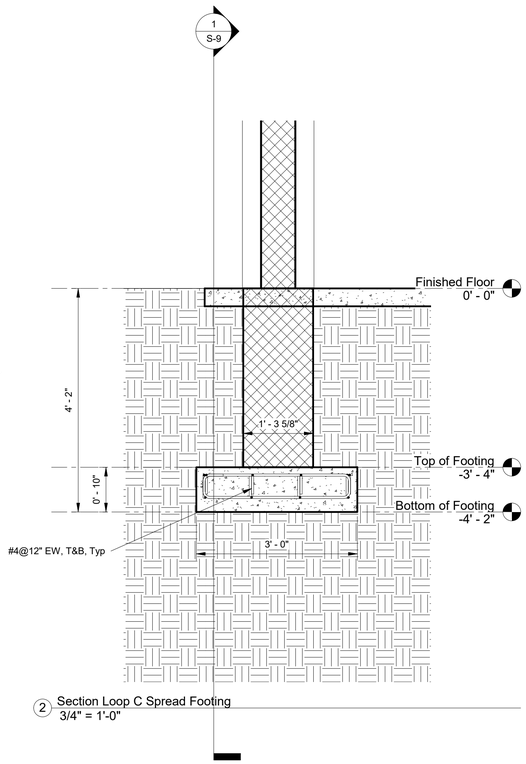
4 8" Wall Foundation
3/4" = 1'-0"



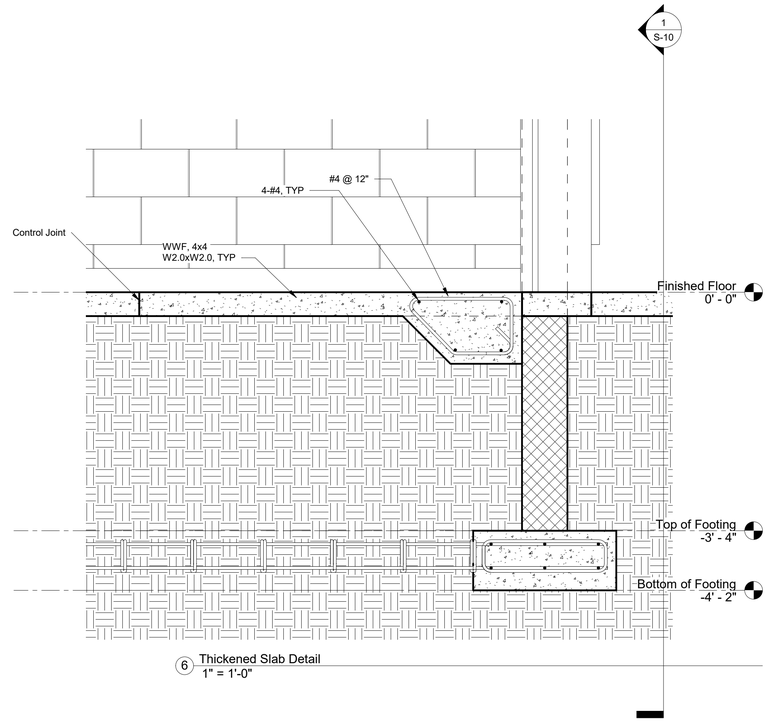
5 Interior Wall Foundation
3/4" = 1'-0"



1 Colmn Spread Foorting - Loop C
3/4" = 1'-0"



2 Section Loop C Spread Footing
3/4" = 1'-0"



6 Thickened Slab Detail
1" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2.
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. 074454E
11/19/2021
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

FOUNDATION DETAILS, SHEET 1

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J ADAMS	06/17/2022	S-30
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J ADAMS	AS NOTED	

111 OF 144

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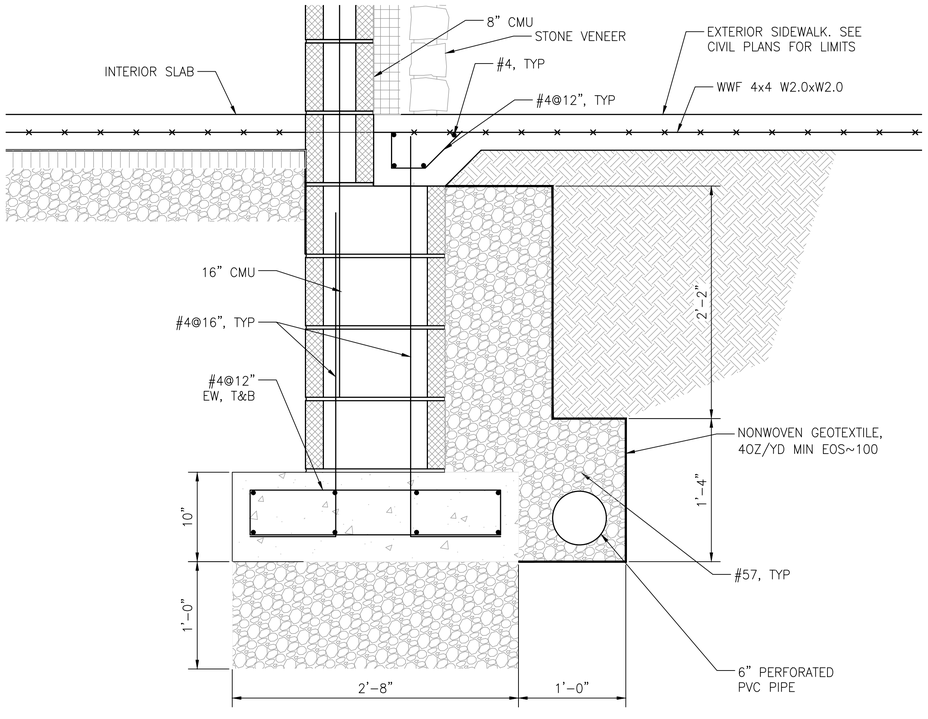
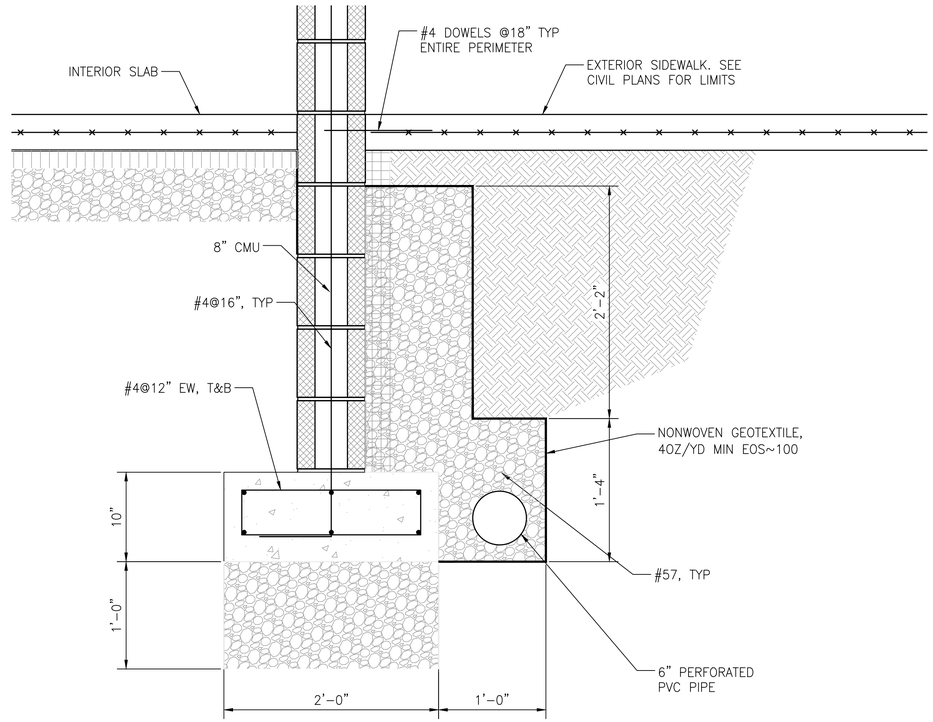
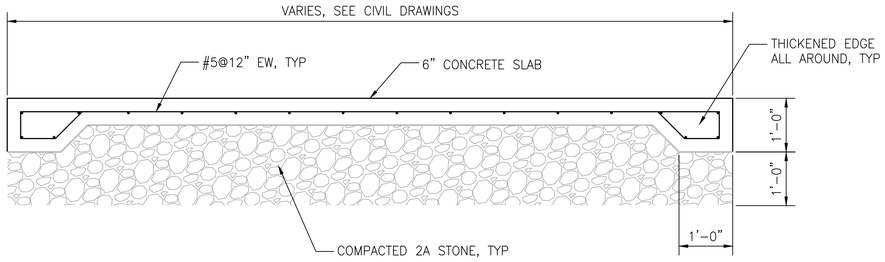


1 S-31 DETAIL – 16" FOUNDATION
FOUNDATION DRAINAGE AND EXTERIOR SLAB DETAIL 1 1/2"=1'-0"



2 S-31 DETAIL – 8" FOUNDATION
FOUNDATION DRAINAGE AND EXTERIOR SLAB DETAIL 1 1/2"=1'-0"



3 S-31 PARKING SLAB DETAIL
3/4"=1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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259 MORGAN STREET, PHOENIXVILLE, PA 19460
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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
No. PE040418
PENNSYLVANIA

SIGNATURE 11/19/21 DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

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0 1
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

FOUNDATION DETAILS – SHEET 2

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

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M DIMONTE	06/17/2022	S-31
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J ADAMS	AS NOTED	

112 OF 144

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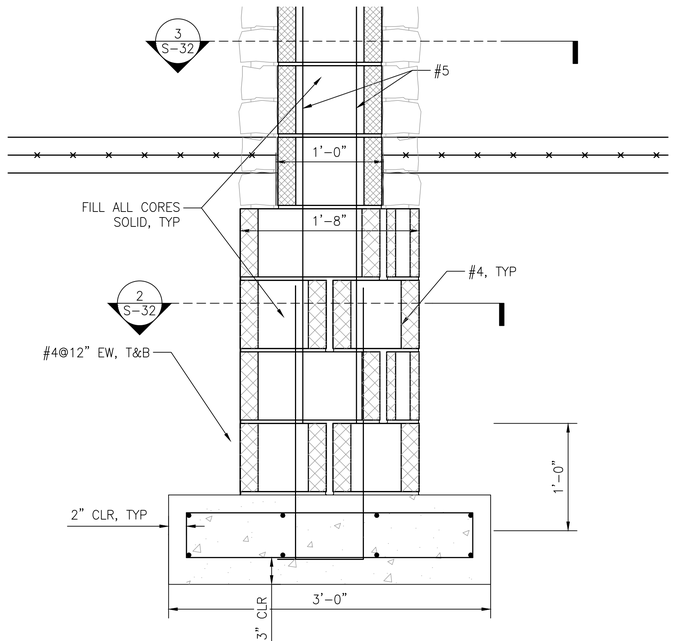
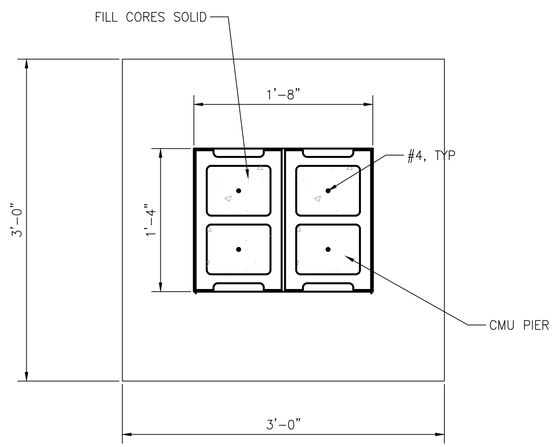
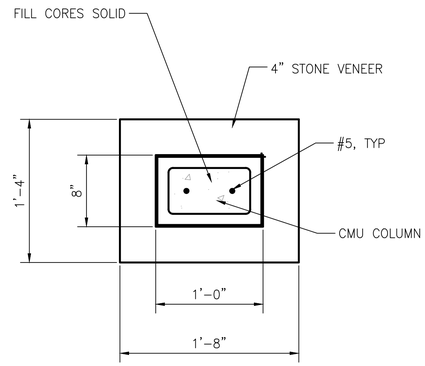


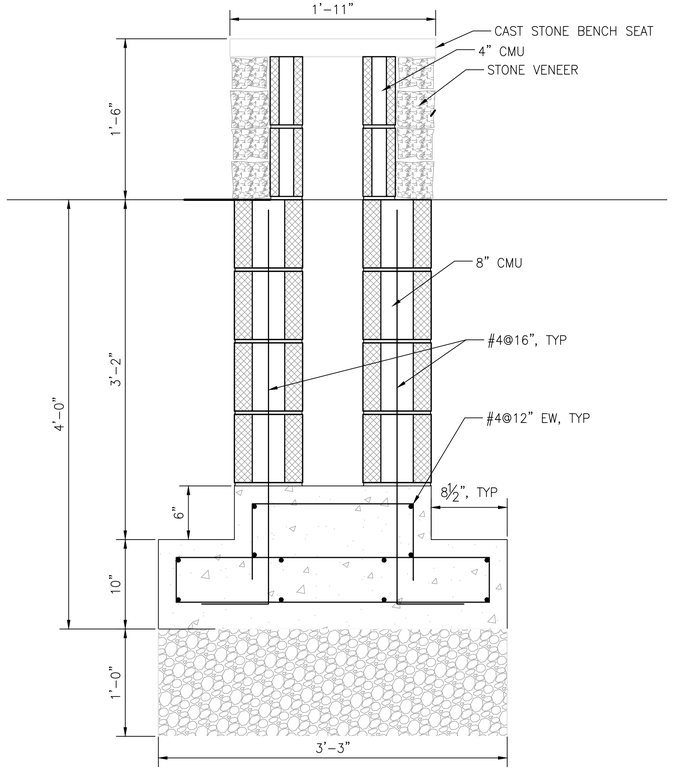
1 S-32 DETAIL
FOUNDATION DETAIL F1 1 1/2"=1'-0"



2 S-32 SECTION
FOUNDATION 1 1/2"=1'-0"



3 S-32 SECTION
CMU COLUMN 1 1/2"=1'-0"



4 S-32 SECTION
LOOP C BENCH 1 1/2"=1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
NO. PE044018

11/19/21
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

FOUNDATION DETAILS – SHEET 3

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

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M DIMONTE	06/17/2022	S-32
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J ADAMS	AS NOTED	

113 OF 144

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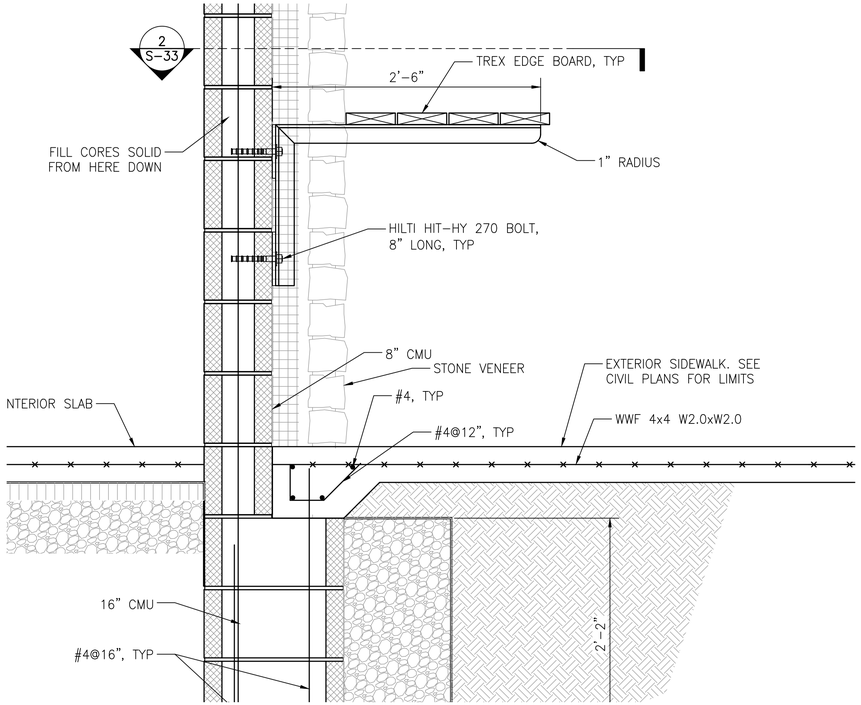
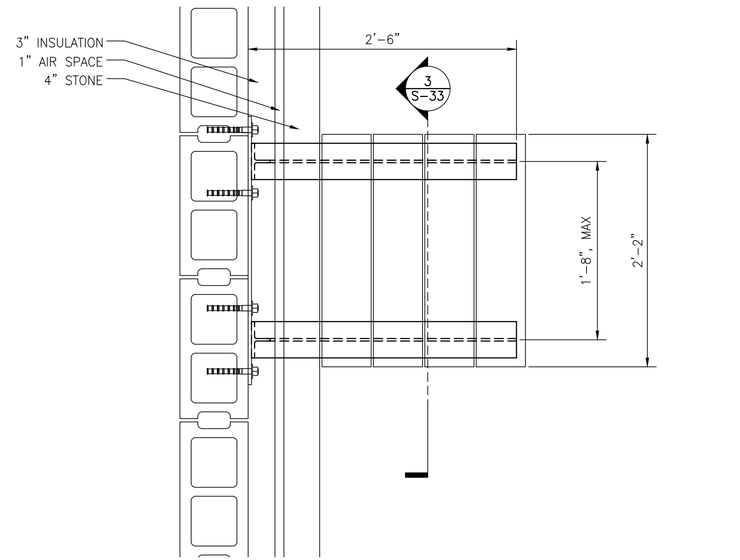
LAST SAVED: 2022.06.10 01:08 PM PLOTTED: 2022.06.17 08:08 AM PLOTTED BY: James Adams
LAYOUT TAB: S-32 FOUNDATION DETAILS - SHEET 3



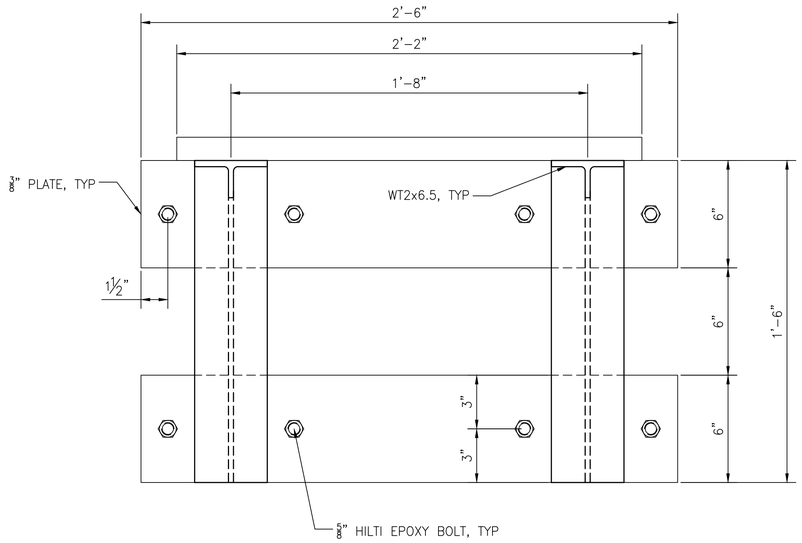
1 S-33 DETAIL
COUNTER SUPPORT 1 1/2"=1'-0"



2 S-33 SECTION
COUNTER SUPPORT 1 1/2"=1'-0"

NOTE: 2'-2" COUNTER SHOWN. 1'8" COUNTER SIMILAR. 3'-6" COUNTER REQUIRES 3 WT SUPPORT BRACKETS

1'-8" COUNTER, 2 REQUIRED
2'-2" COUNTER, 2 REQUIRED
3'-6" COUNTER, 3 REQUIRED



3 S-33 SECTION
COUNTER SUPPORT 3"=1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

meliora
259 MORGAN STREET, PHOENIXVILLE, PA 19460
(610) 933-0123 melioradesign.com

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JAMES WILLIAM ADAMS ENGINEER NO. PE044018E

SIGNATURE 11/19/21 DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

COUNTER SUPPORTS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

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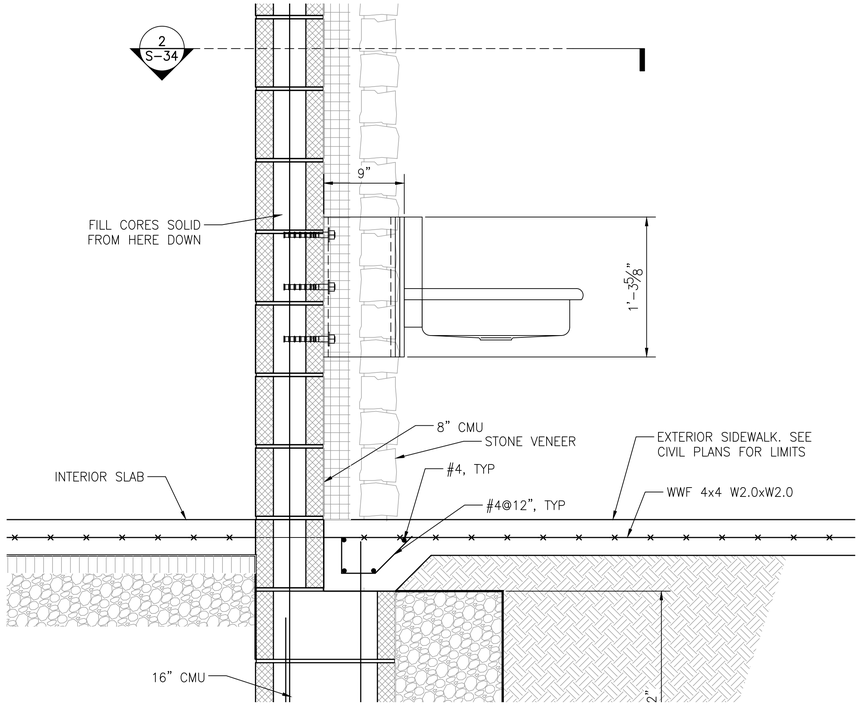
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

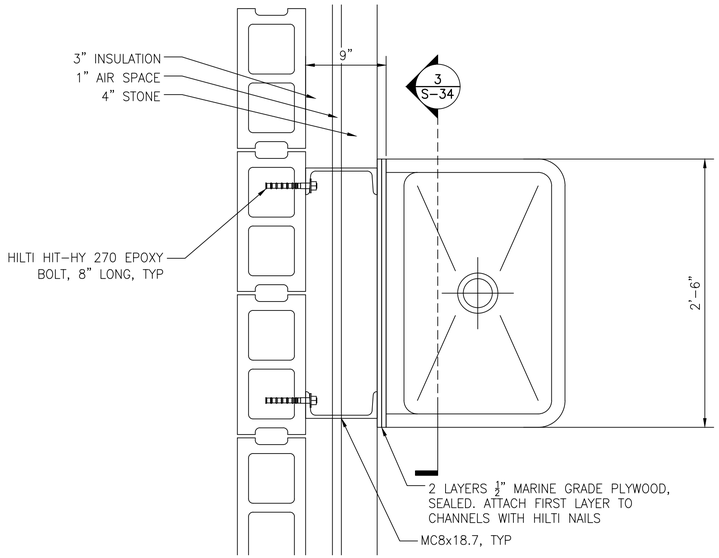
DRAWN BY	DATE	DRAWING No.
M DIMONTE	06/17/2022	S-33
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

114 OF 144

FILE PATH: J:\2020\20027 - hickory run state park\CAD\sheet files\20027 - STRUCTURAL.dwg
LAST SAVED: 2022.06.10 01:08 PM PLOTTED: 2022.06.17 09:38 AM PLOTTED BY: James Adams
LAYOUT TAB: S-33 COUNTER SUPPORTS

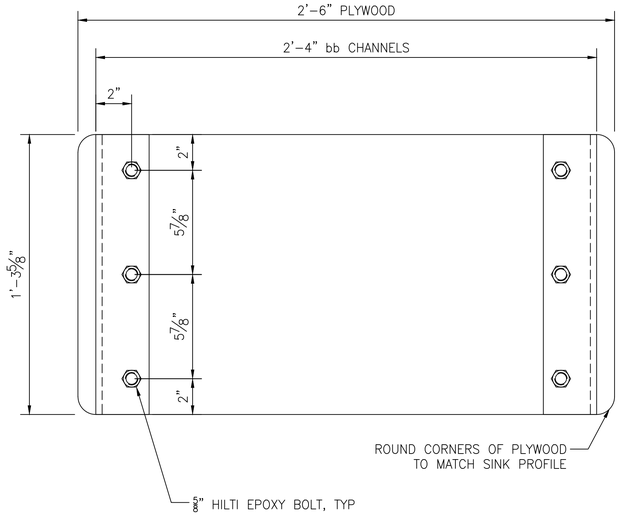


1 S-34 DETAIL
FOUNDATION DETAIL 16" 1 1/2"=1'-0"



2 S-34 DETAIL
FOUNDATION DETAIL 16" 1 1/2"=1'-0"

NOTE: ADA SINK SHOWN. NON-ADA SINK SIMILAR



3 S-34 DETAIL
FOUNDATION DETAIL 16" 3"=1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

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REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
NO. PE044018E
COMMONWEALTH OF PENNSYLVANIA

11/19/21
SIGNATURE DATE

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D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SINK SUPPORTS

VERIFY SCALE

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M DIMONTE	06/17/2022	S-34
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

115 OF 144

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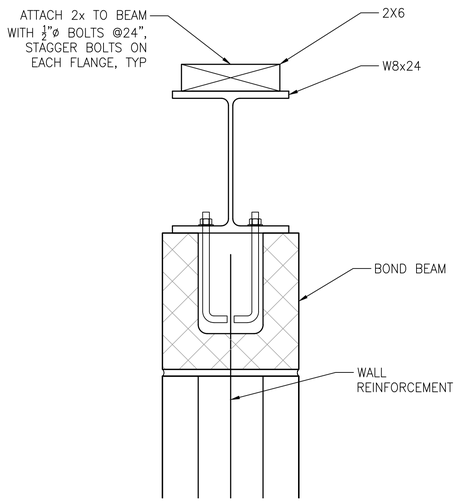
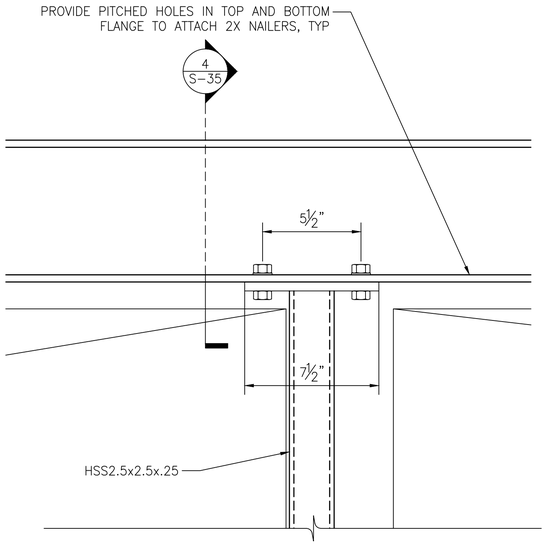
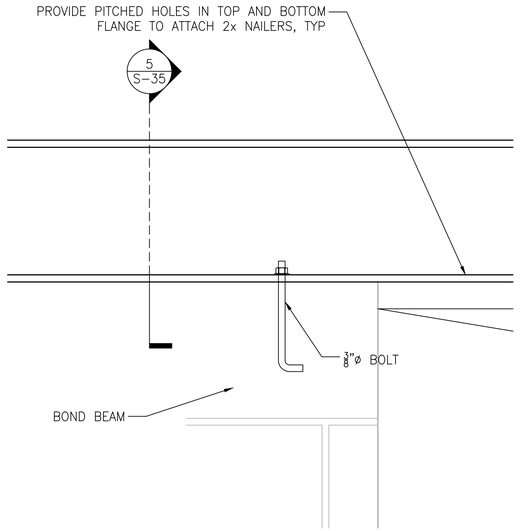
LAST SAVED: 2022.06.10 01:08 PM PLOTTED: 2022.06.17 09:38 AM PLOTTED BY: James Adams
LAYOUT TAB: S-34 SINK SUPPORTS

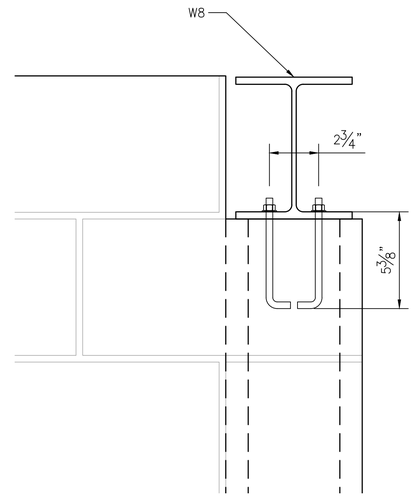


1 S-35 SECTION
END OF LINTEL 3"=1'-0"

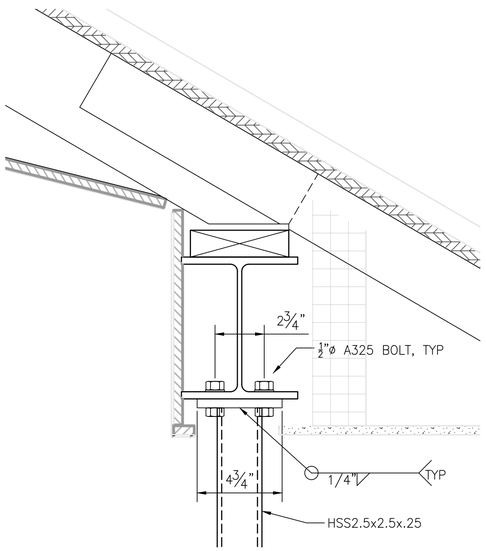




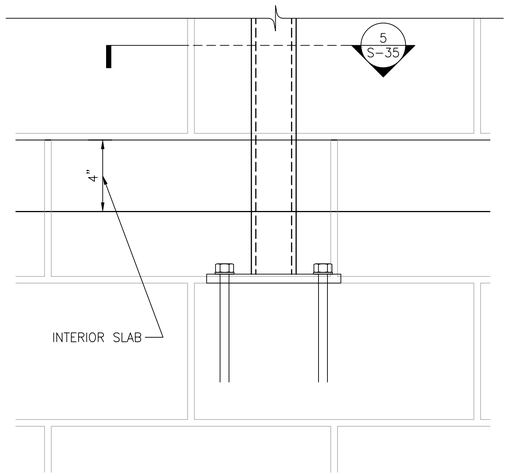
3 S-35 DETAIL
COLUMN/WALL CONNECTION 1 1/2""=1'-0"



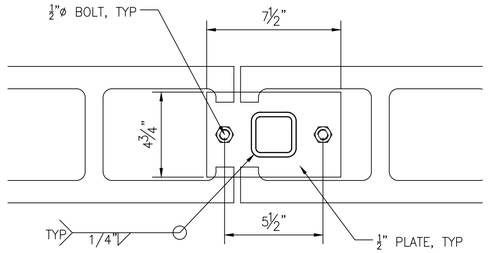
5 S-35 SECTION
COLUMN/BEAM CONNECTION 3"=1'-0"



4 S-35 SECTION
COLUMN/BEAM CONNECTION 3"=1'-0"



2 S-35 DETAIL
COLUMN/BEAM CONNECTION 3"=1'-0"



5 S-35 DETAIL
COLUMN/BEAM CONNECTION 3"=1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2
2. FOR SYMBOLS AND ABBREVIATIONS SEE SHEET S-1

CONSTRUCTION DOCUMENTS

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RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JAMES WILLIAM ADAMS ENGINEER NO. PE044041E

SIGNATURE 11/19/21 DATE

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

COMMON DETAILS – SHEET 1

VERIFY SCALE
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0 1
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DRAWN BY	DATE	DRAWING No.
M DIMONTE	06/17/2022	S-35
CHECKED BY	SCALE	
J ADAMS	AS NOTED	

116 OF 144

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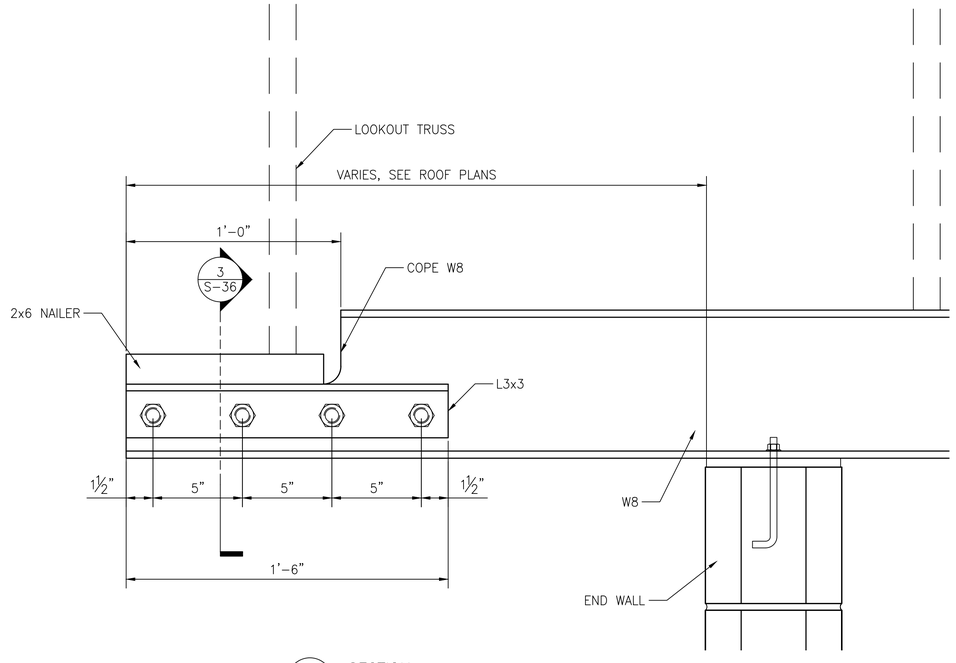
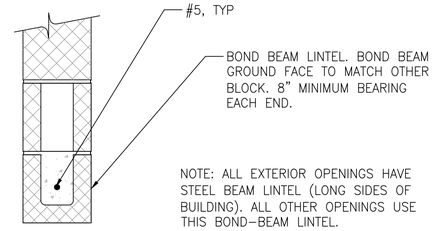
LAYOUT TAB: S-35 COMMON DETAILS - SHEET 1



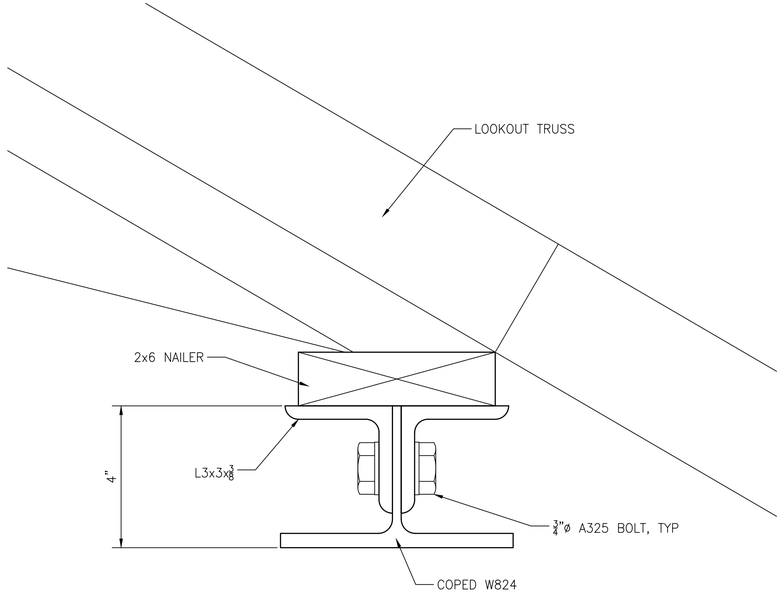
1 S-36 SECTION
LOOKOUT TRUSS SUPPORT 3"=1'-0"



NOTE: ALL EXTERIOR OPENINGS HAVE STEEL BEAM LINTEL (LONG SIDES OF BUILDING). ALL OTHER OPENINGS USE THIS BOND-BEAM LINTEL.

SPANS UP TO 5'-4"

2 S-36 SECTION
BOND-BEAM LINTEL 1 1/2"=1'-0"



3 S-36 SECTION
LOOKOUT TRUSS SUPPORT 3"=1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET S-2
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11/19/21
SIGNATURE DATE

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1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

COMMON DETAILS - SHEET 2

DRAWN BY *M DIMONTE*	DATE 06/17/2022	DRAWING No. S-36
CHECKED BY *J ADAMS*	SCALE AS NOTED	117 OF 144

FILE PATH: J:\2020\20027 - Hickory run state park\CAD\sheet files\20027 - STRUCTURAL.dwg
LAST SAVED: 2022.06.10 01:08 PM PLOTTED: 2022.06.17 08:59 AM PLOTTED BY: James Adams
LAYOUT TAB: S-36 COMMON DETAILS - SHEET 2

AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATELTY
ASSOC	ASSOCIATED
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
BC	BALANCING COCK
BD	BLOW DOWN
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER/BOILER HORSEPOWER
BLDG	BUILDING
BLR	BOILER
BLW	BELOW
BTM	BOTTOM
BTUH	BRITISH THERMAL UNIT PER HOUR
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CHAR	CHARACTERISTIC
CHKV	CHECK VALVE
CIRC	CIRCULATING
CLG	CEILING
COL	COLUMN
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
CONST	CONSTRUCTION
COP	COEFFICIENT OF PERFORMANCE
Db	DRY BULB TEMPERATURE, °F
DIA	DIAMETER
DISCH	DISCHARGE
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPC	DIFFERENTIAL PRESSURE CONTROLLER
DPR	DAMPER
DPS	DIFFERENTIAL PRESSURE SWITCH
DWG	DRAWING
EA	EACH
EAT	ENTERING AIR TEMPERATURE, °F
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EFF	EFFICIENCY
ELECT	ELECTRIC
ENCL	ENCLOSURE
ENT	ENTERING
EQUIP	EQUIPMENT
ER	ECCENTRIC REDUCER (BOTTOMS FLAT)
ERC	EXHAUST REGISTER CEILING
ERW	EXHAUST REGISTER WALL
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
EWT	ENTERING WATER TEMPERATURE, °F
°F	FAHRENHEIT
FAT	FINAL AIR TEMPERATURE, °F
FC	FLEXIBLE CONNECTION
FCD	FLOW CONTROL DEVICE
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FTG	FITTING
FURN	FURNISH
FV	FACE VELOCITY
G	GAS
GA	GAUGE, GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GR	GRILLE
H	HEIGHT
HC	HEATING CONTRACTOR/HEATING COIL
HD	HEAD
HP	HORSEPOWER/HEAT PUMP
HR	HOUR
HTR	HEATER
HTG	HEATING
HUH	HORIZONTAL UNIT HEATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWS&R	HOT WATER SUPPLY AND RETURN
HZ	HERTZ
ID	INSIDE DIAMETER
IER	INVERTED ECCENTRIC REDUCER (TOPS FLAT)
IN	INCHES
INV	INVERT
INSUL	INSULATION
KW	KILOWATT
KWH	KILOWATT HOUR
L	LENGTH
LAT	LEAVING AIR TEMPERATURE, °F
LBS	POUNDS
LF	LINEAR FEET
LRA	LOCK ROTOR AMPS
LTG	LIGHTING
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE, °F
MAX	MAXIMUM
MBH	THOUSAND BTUH
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER
MS	MOTOR STARTER
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MTR	MOTOR
N/A	NOT APPLICABLE
No	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OC	ON CENTER
P	PUMP
PC	PLUMBING CONTRACTOR/PERSONAL COMPUTER
PD	PRESSURE DROP/PUMP DISCHARGE
PE	PNEUMATIC - ELECTRIC
PG	PRESSURE GAUGE WITH COCK
PH	PHASE
PRESS	PRESSURE
PSIG	POUNDS PER SQUARE INCH GAGE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PT	PRESSURE/TEMPERATURE TAP
QTY	QUANTITY
REG	REGISTER
REQD	REQUIRED
RET	RETURN
REV	REVISION/REVERSE ACTING
RFM	RADIANT FLOOR MANIFOLD
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
SA	SUPPLY AIR
SCH	SCHEDULE
SD	SMOKE DETECTOR
SDCL	SUPPLY DIFFUSER CEILING LINEAR
SDC-()	SUPPLY DIFFUSER CEILING
SENS	SENSIBLE
SF	SUPPLY FAN
SGW	SUPPLY GRILLE WALL
SHT	SHEET
SP	STATIC PRESSURE (INCHES OF WATER)
SPEC	SPECIFICATION
SQ	SQUARE
SQFT	SQUARE FEET
SRW	SUPPLY REGISTER WALL
SS	STAINLESS STEEL
ST	SPACE TEMPERATURE
STD	STANDARD
STR	STRAINER
STRUCT	STRUCTURAL
SUP	SUPPLY
T	THERMOSTAT
TA	THROW AWAY
TEMP	TEMPERATURE
TH	THERMOMETER
THK	THICK
TI	TEMPERATURE INDICATOR
TOT	TOTAL
TS	TIP SPEED/TEMPERATURE SENSOR (SPACE)
TSP	TOTAL STATIC PRESSURE/TEMPERATURE SETPOINT DEVICE
TSTAT	THERMOSTAT
TYP	TYPICAL
V	VOLTAGE, VALVE
VA	VENTILATION AIR
VCD	VOLUME CONTROL DAMPER (MANUAL)
VEL	VELOCITY
VFS	VENTURI FLOW STATION
VOL	VOLUME
W	WIDTH
W/	WITH
W/O	WITHOUT
Wb	WET BULB TEMPERATURE, °F
WC	WATER COLUMN
WP	WEATHERPROOF
WT	WEIGHT
WTD	WATER TEMPERATURE DROP, °F

MECHANICAL PIPING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
M	3-WAY CONTROL VALVE, ELECTRIC		FLOW SWITCH
	AIR VENT WITH COCK		INVERTED ECCENTRIC REDUCER
	ANCHOR		PIPE CONNECTION
	AUTOMATIC AIR VENT		PRESSURE GAUGE WITH COCK, WATER
T	BALANCING COCK		PRESSURE REDUCING VALVE, WATER
	BOTTOM CONNECTION		PRESSURE TEMPERATURE TAP
	CONCENTRIC REDUCER		RELIEF VALVE, WATER
M	CONTROL VALVE, ELECTRIC		RISE IN PIPE
	CONTROL VALVE, PNEUMATIC		SIDE CONNECTION
	CHECK VALVE		SUCTION DIFFUSER
	CONDUCTIVITY SENSOR FOR CHEMICAL FEEDER		THERMOMETER WITH SEPARABLE WELL
DP	DIFFERENTIAL PRESSURE SENSOR		UNION
	DIRECTION OF FLOW		VALVE, SEE SPECIFICATIONS FOR TYPE
	DROP IN PIPE		VACUUM BREAKER
	ELBOW DOWN		VALVE WITH HOSE END
	ELBOW (TEE) UP		VENTURI FLOW STATION
	ECCENTRIC REDUCER	FM	VENTURI FLOW STATION WITH FLOW METER
	END CAP		WELL
	FLANGED CONNECTION		WYE STRAINER
xxx	FLEXIBLE CONNECTION		WYE STRAINER WITH BALL VALVE
	FLOW CONTROL DEVICE		PIPE SECTION
	FLOW INDICATOR		PIPE DOWN

MECHANICAL LEGEND (Misc.)

SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER; 4-WAY THROW UNLESS NOTED OTHERWISE
	AIR FLOW ARROW
C	CARBON MONOXIDE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
H	HUMIDISTAT, ELECTRIC
P S	PRESSURE SENSOR
SD	SMOKE DETECTOR
	THERMOSTAT, ELECTRIC
T M	MAIN THERMOSTAT, ELECTRONIC
T R XXX	REMOTE THERMOSTATIC SENSOR - W/ LOCATION OF MAIN THERMOSTAT
T S	RADIANT FLOOR SLAB TEMPERATURE SENSOR
1	INDICATES NOTES ELSEWHERE ON DRAWING
	CONNECTION BETWEEN NEW AND EXISTING
1	REVISION NUMBER
1 / M-501	DETAIL NUMBER OR SECTION LETTER; DRAWING NUMBER WHERE DETAIL IS DRAWN

THE TERM PROFESSIONAL REFERS TO THE ARCHITECTURAL OR ENGINEERING FIRM RETAINED BY THE DEPARTMENT TO DESIGN AND DOCUMENT THE WORK OF THE PROJECT, OR THE PROFESSIONAL'S AUTHORIZED REPRESENTATIVE. THE TERM PROFESSIONAL MAY ALSO REFER TO THE CLIENT AGENCY IF THE PROJECT DESIGN WAS DELEGATED TO THE CLIENT AGENCY. THROUGHOUT THE SPECIFICATIONS AND DRAWINGS WHEREVER THE TERMS 'A/E', 'ARCHITECT' OR 'ENGINEER' ARE USED IT SHALL MEAN PROFESSIONAL.

MECHANICAL GENERAL NOTES

1. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
2. DO NOT SCALE DRAWINGS - ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE. NOTIFY ARCHITECT OF ANY DEVIATIONS FROM THE DRAWINGS.
3. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW ONLY THE GENERAL ARRANGEMENTS OF ALL PIPING AND EQUIPMENT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO SHOW OR INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED TO AVOID EXISTING PIPING OR STRUCTURAL FEATURES.
4. ALL PIPING, CONDUIT, DUCTWORK, ETC., SHALL BE INSTALLED IN A MANNER WHICH WILL NOT DEFACE OR ALTER ANY AREAS. ROUTING OF THE ABOVE EQUIPMENT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSALLATION.
5. ALL WORK PERFORMED ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTIENT CODES, RULES, ORDINANCES, AND REGULATIONS OF THE LOCAL, STATE, AND NATIONAL GOVERNING AUTHORITIES.
6. ALL WORK PERFORMED UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST SAFETY AND HEALTH STANDARDS.
7. REPORT ANY DISCREPANCIES FOUND IN THE DRAWINGS AND/OR IN THE SPECIFICATIONS DURING THE BIDDING PROCESS FOR CLARIFICATION BY THE ARCHITECT.
8. THE .2 CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, TRAPS, CLEAN OUTS, CONTROLS, FIRE DAMPERS, ETC. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ACCESS PANELS WITH FINISH WORK AND ALL OTHER TRADES.
9. ALL PIPING AND DUCTWORK TO BE LOCATED AND COORDINATED WITH ARCHITECTURAL PLANS. ALL PIPING AND DUCTWORK SHALL BE CONCEALED IN FINISHED AREAS.
10. ANY PHYSICAL INSTALLATION MODIFICATIONS, DUE TO FIELD CONDITIONS, SHALL BE RESOLVED BY THE .2 CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MECHANICAL ENGINEER.
11. THE .2 CONTRACTOR SHALL COORDINATE THE LOCATION OF DUCTWORK WITH NEW PIPING BEING INSTALLED.
12. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR ABOVE SUSPENDED CEILING.

MECHANICAL PIPING NOTES

1. ALL DOWNFEED BRANCHES AND EQUIPMENT SHALL HAVE DRAIN COCKS INSTALLED AT LOWEST POINT.
2. ALL HORIZONTAL LINES SHALL BE RUN LEVEL WITHOUT POCKETS. WHERE POCKETS OCCUR, AUTO AIR VENTS SHALL BE INSTALLED AT EACH VERTICAL RISE.
3. ALL UPFEED RISERS SHALL BE MADE WITH TOP CONNECTIONS AT MAIN. ALL DOWNFEED RISERS SHALL BE MADE WITH BOTTOM CONNECTIONS AT MAIN.
4. CHANGES OF PIPE SIZES ON HORIZONTAL RUNS SHALL BE MADE WITH INVERTED ECCENTRIC REDUCERS WITH TOP OF PIPE LEVEL.
5. ARROWS ON SUPPLY AND RETURN LINES INDICATE DIRECTION OF FLOW.
6. PROVIDE VALVE WITH HOSE END ON ALL LOW POINTS OF PIPING SYSTEM AND AUTO AIR VENTS AT ALL HIGH POINTS OF THE PIPING SYSTEM UNLESS NOTED OTHERWISE.
7. FOR TYPICAL WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD DETAILS.
8. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE SO THERE WILL BE COUNTER FLOW BETWEEN WATER AND AIR.
9. DIELECTRIC UNIONS AND FLANGES SHALL BE USED ON ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
10. ALL LINES NOTED "BELOW FLR." OR "ABV. CLG." SHALL BE CONCEALED IN JOIST SPACE, THROUGH JOISTS, OR BETWEEN JOISTS, UNLESS CEILING IS FURRED OR LINES ARE BELOW SLAB ON GRADE.
11. SET ALL FUNNEL DRAINS OVER P-TRAPS.
12. EXTEND ALL CLEANOUTS ON SEWER LINES BELOW SLAB ON GRADE TO FINISHED FLOOR LEVEL. ALL LINES INDICATED "AT CLG," IN CRAWL SPACES AND PIPE WALKWAYS SHALL BE HUNG FROM FIRST FLOOR JOISTS.
13. COORDINATE LOCATIONS OF ALL LINES AND EQUIPMENT WITH OTHER CONTRACTORS.

MECHANICAL DUCTWORK NOTES

1. ALL DUCTWORK SIZES NOTED ARE FREE AREA SIZES.
2. ALL DUCT JUNCTIONS SHALL BE CONSTRUCTED OF STANDARD 45 DEGREE ENTRY BRANCHES WITH BALANCING DAMPERS DOWNSTREAM OF DUCT BRANCH ENTRY.
3. TOTAL STATIC PRESSURE NOTED IN SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
4. CEILING DIFFUSER SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES.
6. FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.

DUCTWORK LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLEXIBLE DUCTWORK		SUPPLY/OUTDOOR/MAKE-UP AIR RECTANGULAR DUCT SECTION
	ALUMINUM DUCTWORK		RETURN/TRANSFER/RELIEF AIR RECTANGULAR DUCT SECTION
12x8	DUCT (SHOWN x HIDDEN)		EXHAUST AIR RECTANGULAR DUCT SECTION
12ø	ROUND DUCT (DIAMETER)		SUPPLY/OUTDOOR/MAKE-UP AIR ROUND DUCT SECTION
FC	FLEXIBLE CONNECTION		RETURN/TRANSFER/RELIEF AIR ROUND DUCT SECTION
	COIL IN DUCT		EXHAUST AIR ROUND DUCT SECTION
	VOLUME CONTROL DAMPER		LOUVER IN WALL
	DUCT TRANSITION		SQUARE ELBOW WITH TURNING VANES
M	MOTOR OPERATED DAMPER		RADIUS ELBOW
BD	BACKDRAFT DAMPER		RECTANGULAR BOOT CONNECTION
			BELLMOUTH TAKEOFF CONNECTION
			CONICAL TAKEOFF CONNECTION
			CONICAL TAKEOFF CONNECTION
			STRAIGHT ROUND TAKEOFF CONNECTION

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER No. PE084434

6/17/2022

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
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0 1
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	W MINAHAN	DATE	06/17/2022
CHECKED BY	T HOVAN	SCALE	AS NOTED

DRAWING No.
M-1

GENERAL NOTES:

1. COORDINATE HEIGHT OF ENERGY RECOVERY VENTILATOR BOTTOM DUCT CONNECTION HEIGHTS WITH PLUMBING FIXTURES IN ALL BUILDINGS
2. ALL DUCTWORK OUTSIDE OF THE MECHANICAL ROOMS SHALL BE ROUTED ABOVE THE CEILING IN THE TRUSS SPACE.
3. ALL DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM. PROVIDE ALUMINUM OR STAINLESS STEEL HANGERS.

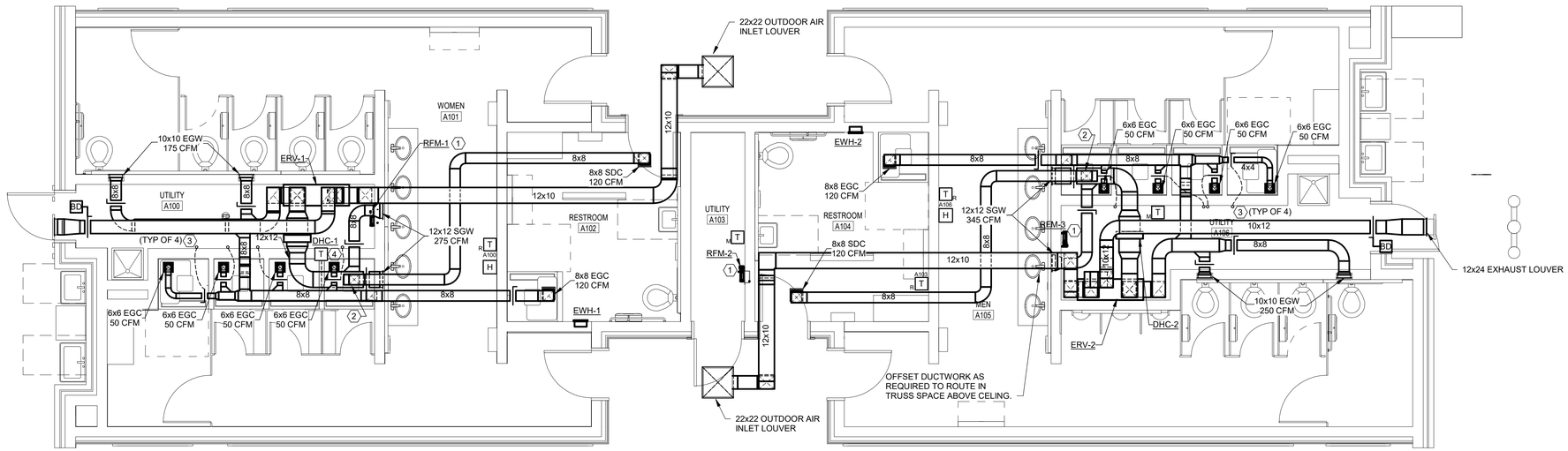
MECHANICAL KEYNOTES

1 RADIANT FLOOR MANIFOLD (RFM-1, RFM-2 AND RFM-3) SHALL BE MOUNTED ON WALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO DWG M-6 FOR PIPING LAYOUT IN THIS AREA.

2 ROUTE SUPPLY DUCTWORK SERVING RESTROOM A102 AND A104 ABOVE CEILING IN TRUSS SPACE. DUCT SHALL BE TAPPED FROM THE TOP OF THE ASSOCIATED 12X12 AS SHOWN.

3 REMOTE CONTROL DAMPER ACTUATOR. LOCATE IN MECHANICAL SPACE ON WALL.

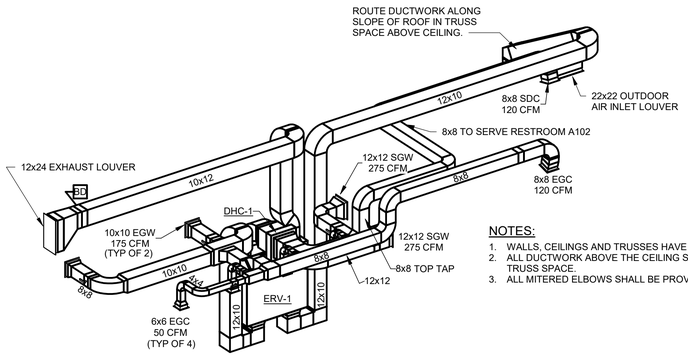
4 DUCT MOUNTED THERMOSTAT IN SUPPLY AIR DUCT DOWNSTREAM OF DUCT HEATING COIL TO CONTROL DUCT HEATING COIL CONTROL VALVE.



REFER TO 3D VIEWS THIS SHEET FOR ADDITIONAL DUCT ROUTING INFORMATION

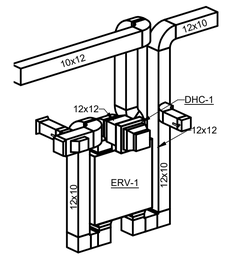
NOTE:
LOCATE MAIN THERMOSTATS IN MECHANICAL ROOMS AS REQUIRED FOR EASE OF ACCESS

1 LOOP-C - DUCTWORK
SCALE: 1/4" = 1'-0"

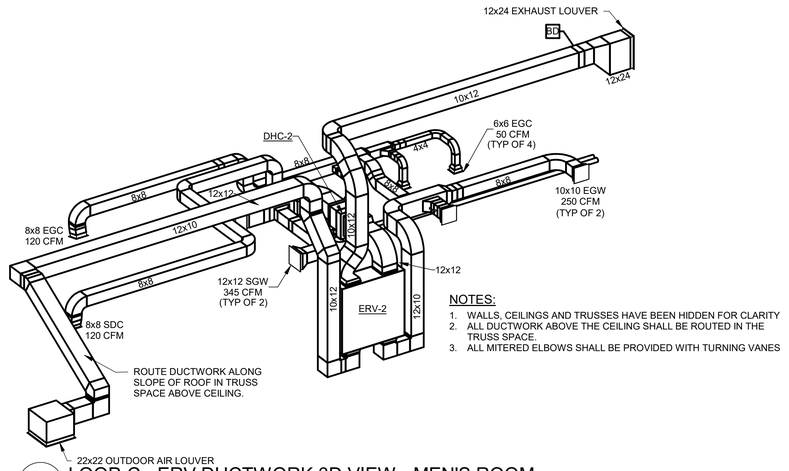


NOTES:
1. WALLS, CEILINGS AND TRUSSES HAVE BEEN HIDDEN FOR CLARITY
2. ALL DUCTWORK ABOVE THE CEILING SHALL BE ROUTED IN THE TRUSS SPACE.
3. ALL MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES

2 LOOP-C - ERV DUCTWORK 3D VIEW - WOMEN'S ROOM
SCALE:

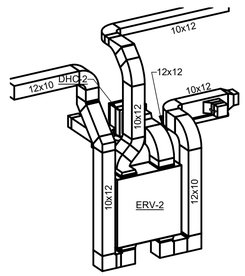


3 LOOP-C - ERV DUCTWORK CONNECTIONS - WOMEN'S ROOM
SCALE:



NOTES:
1. WALLS, CEILINGS AND TRUSSES HAVE BEEN HIDDEN FOR CLARITY
2. ALL DUCTWORK ABOVE THE CEILING SHALL BE ROUTED IN THE TRUSS SPACE.
3. ALL MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES

4 LOOP-C - ERV DUCTWORK 3D VIEW - MEN'S ROOM
SCALE:



5 LOOP-C - ERV DUCTWORK CONNECTIONS - MEN'S ROOM
SCALE:

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER No. PE084434

W M 6/19/2022

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

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0 1
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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP - C FLOOR PLAN - MECHANICAL

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

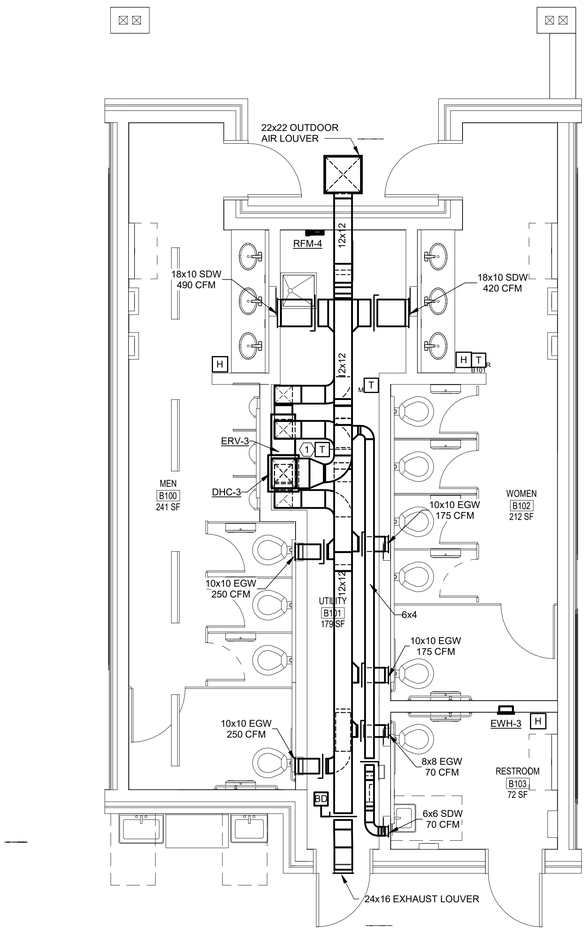
DRAWN BY	DATE	DRAWING No.
W MINAHAN	06/17/2022	M-2
CHECKED BY	SCALE	
T HOVAN	AS NOTED	

GENERAL NOTES:

1. COORDINATE HEIGHT OF ENERGY RECOVERY VENTILATOR BOTTOM DUCT CONNECTION HEIGHTS WITH PLUMBING FIXTURES IN ALL BUILDINGS
2. INSTALL ALL WALL MOUNTED GRILLES SERVING B100 MEN, B102 WOMEN AND B103 RESTROOM ABOVE THE CMU. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT ELEVATIONS.
3. ALL DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM. PROVIDE ALUMINUM OR STAINLESS STEEL HANGERS.

MECHANICAL KEYNOTES

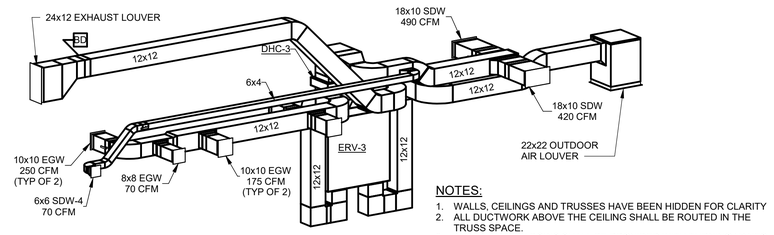
1 DUCT MOUNTED THERMOSTAT IN SUPPLY AIR DUCT DOWNSTREAM OF DUCT HEATING COIL TO CONTROL DUCT HEATING COIL CONTROL VALVE.



REFER TO 3D VIEWS THIS SHEET FOR ADDITIONAL DUCT ROUTING INFORMATION

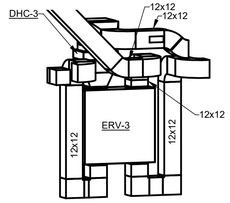
NOTE:
LOCATE MAIN THERMOSTATS IN MECHANCIAL ROOMS AS REQUIRED FOR EASE OF ACCESS

1 OGTC - DUCTWORK
SCALE: 1/4" = 1'-0"



NOTES:
1. WALLS, CEILINGS AND TRUSSES HAVE BEEN HIDDEN FOR CLARITY
2. ALL DUCTWORK ABOVE THE CEILING SHALL BE ROUTED IN THE TRUSS SPACE.
3. ALL MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES

2 OGTC - ERV DUCTWORK 3D VIEW
NOT TO SCALE



3 OGTC - ERV DUCTWORK CONNECTIONS - 3D VIEW
SCALE:

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
WILLIAM ANDREW MINAHAN
ENGINEER No. PE084434
6/17/2022

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

OGTC FLOOR PLAN – MECHANICAL

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
W MINAHAN	06/17/2022	M-3
CHECKED BY	SCALE	
T HOVAN	AS NOTED	

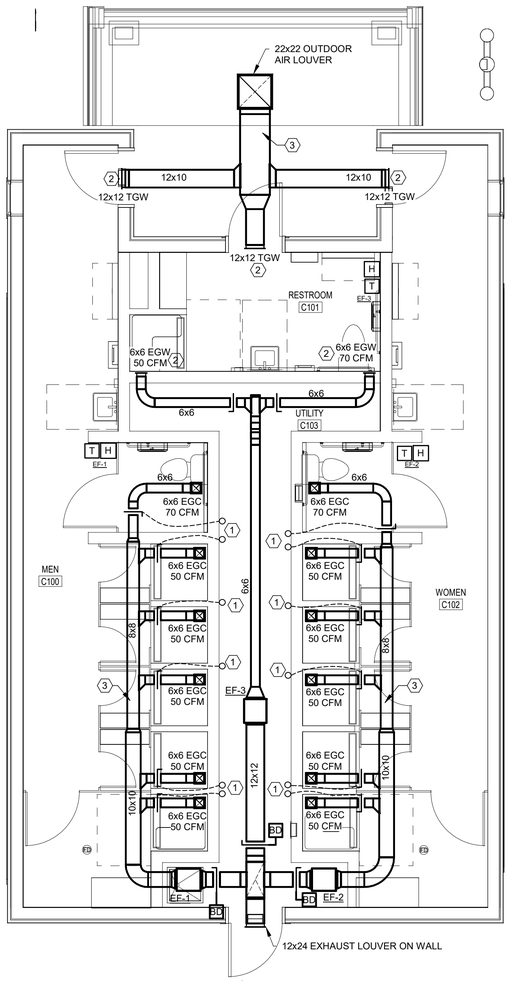
ALL WORK ON THIS SHEET IS BASE BID #3

GENERAL NOTES:

1. ALL DUCTWORK OUTSIDE OF THE MECHANICAL ROOMS SHALL BE ROUTED ABOVE THE CEILING IN THE TRUSS SPACE.
2. ALL DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM. PROVIDE ALUMINUM OR STAINLESS STEEL HANGERS.
3. BRANCH DUCTWORK SERVING 6x6 EXHAUST GRILLES SHALL BE 6x6.

MECHANICAL KEYNOTES

1 REMOTE CONTROL DAMPER ACTUATOR. LOCATE IN MECHANICAL SPACE ON WALL.
2 INSTALL WALL MOUNTED GRILLES ABOVE THE CMU WALL. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS.
3 ROUTE DUCTWORK IN TRUSS SPACE



1 OGC - DADDY ALLEN FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"

THIS BUILDING IS EXHAUST ONLY, NO HEATING IS BEING PROVIDED

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER No. PE084434 6/17/2022

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

CAMP DADDY ALLEN FLOOR PLAN – MECHANICAL

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
W MINAHAN	06/17/2022	M–4
CHECKED BY	SCALE	
T HOVAN	AS NOTED	

ALL WORK ON THIS SHEET IS BASE BID #2

GENERAL NOTES:

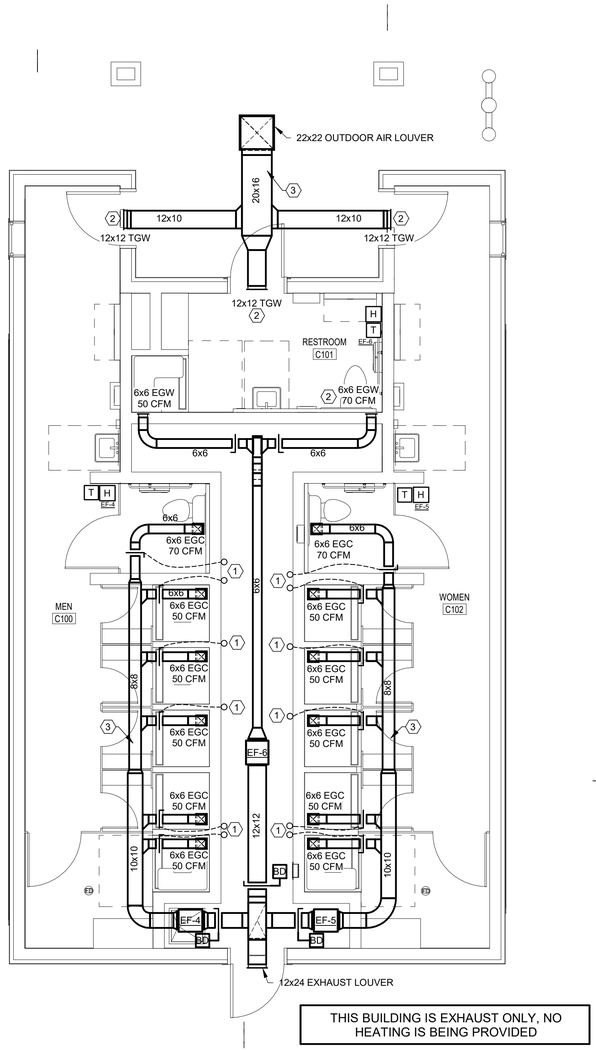
1. ALL DUCTWORK OUTSIDE OF THE MECHANICAL ROOMS SHALL BE ROUTED ABOVE THE CEILING IN THE TRUSS SPACE.
2. ALL DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM. PROVIDE ALUMINUM OR STAINLESS STEEL HANGERS.
3. BRANCH DUCTWORK SERVING 6x6 EXHAUST GRILLES SHALL BE 6x6.

MECHANICAL KEYNOTES

1 REMOTE CONTROL DAMPER ACTUATOR. LOCATE IN MECHANICAL SPACE ON WALL.

2 INSTALL WALL MOUNTED GRILLES ABOVE THE CMU WALL. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS.

3 ROUTE DUCTWORK IN TRUSS SPACE



1 OGC - SHEHAQUA FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL
WILLIAM ANDREW MINAHAN
ENGINEER
No. PE084434
PENNSYLVANIA
6/17/2022

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

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HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

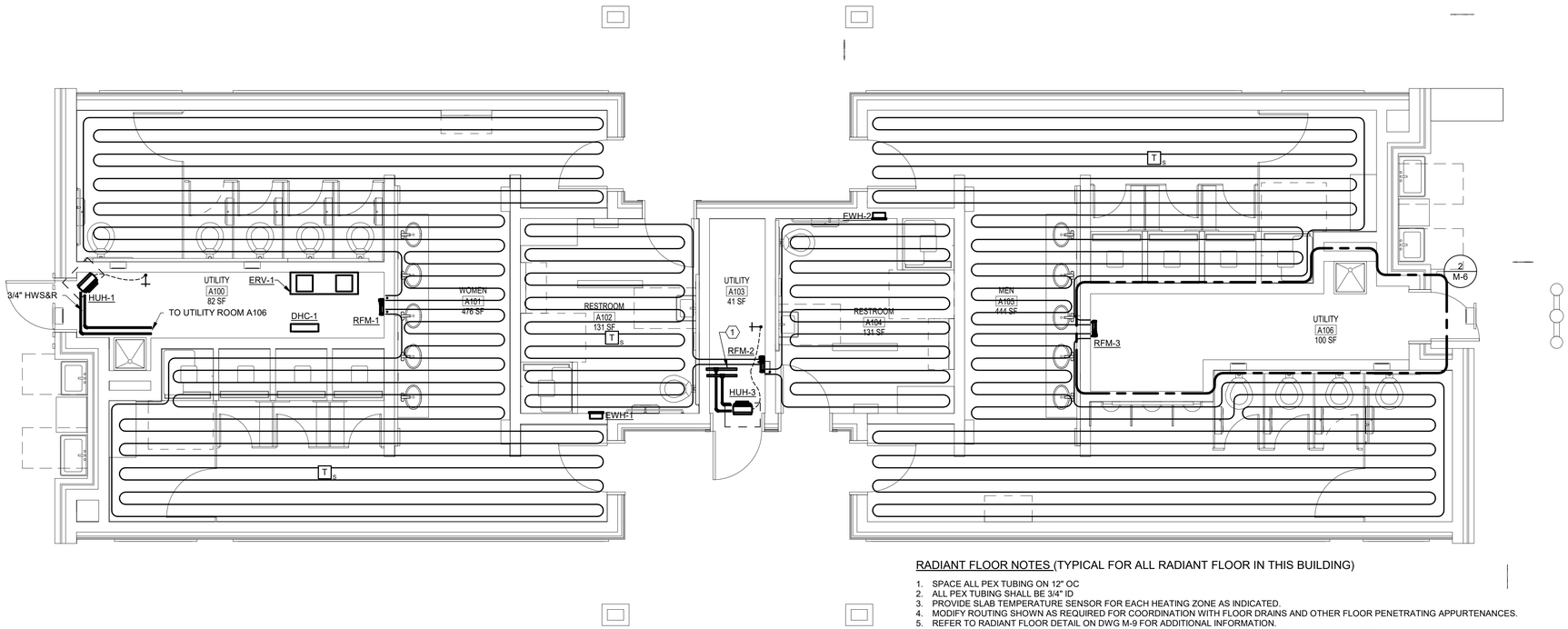
CAMP SHEHAQUA FLOOR PLAN – MECHANICAL

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
W MINAHAN	06/17/2022	M–5
CHECKED BY	SCALE	
T HOVAN	AS NOTED	

MECHANICAL KEYNOTES

1 1 1/2" HOT WATER SUPPLY AND RETURN FROM UTILITY ROOM A106 TO SERVE UTILITY ROOM A103. TRANSITION TO 1 1/4" TO SERVE UTILITY ROOM A100. ALL PIPE TAPS SERVING DUCT HEATING COIL, HORIZONTAL UNIT HEATERS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

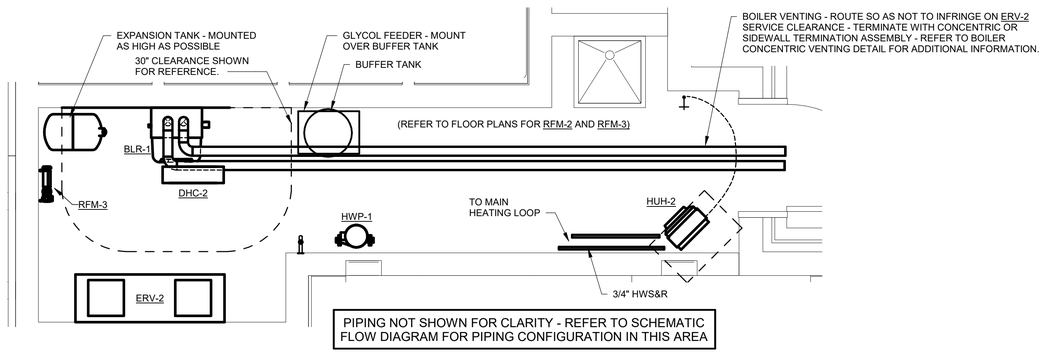


RADIANT FLOOR NOTES (TYPICAL FOR ALL RADIANT FLOOR IN THIS BUILDING)

1. SPACE ALL PEX TUBING ON 12" OC
2. ALL PEX TUBING SHALL BE 3/4" ID
3. PROVIDE SLAB TEMPERATURE SENSOR FOR EACH HEATING ZONE AS INDICATED.
4. MODIFY ROUTING SHOWN AS REQUIRED FOR COORDINATION WITH FLOOR DRAINS AND OTHER FLOOR PENETRATING APPURTENANCES.
5. REFER TO RADIANT FLOOR DETAIL ON DWG M-9 FOR ADDITIONAL INFORMATION.
6. PROVIDE PEX INSULATION BELOW SLAB PER DETAIL UNDER ENTIRE FLOOR SERVED BY RADIANT SYSTEM.

1 LOOP-C - FLOOR PLAN - MECHANICAL PIPING

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



2 LOOP-C - MECHANICAL ROOM ENLARGED VIEW

SCALE: 1/2" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER No. PE084434

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

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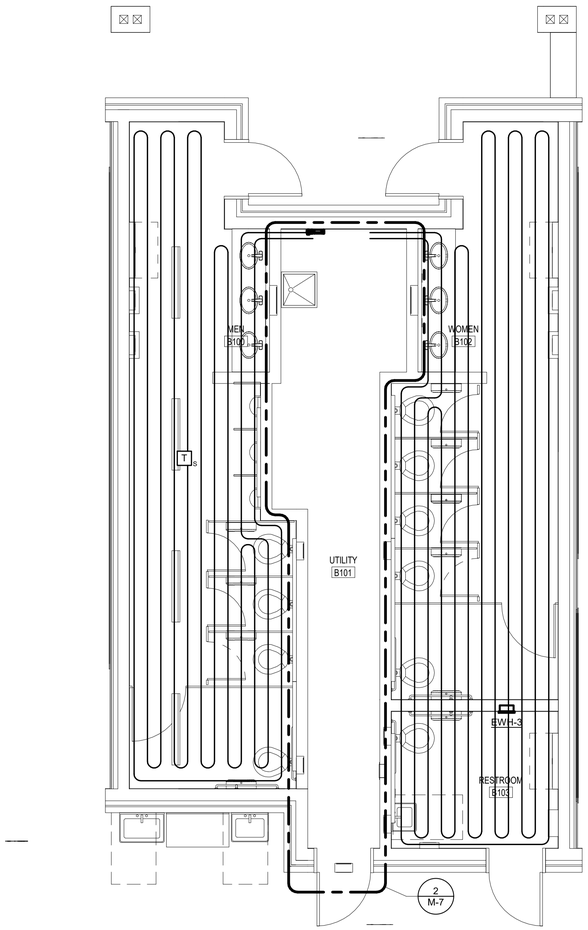
HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP–C FLOOR PLAN – MECHANICAL PIPING

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
W MINAHAN	06/17/2022	M–6
CHECKED BY	SCALE	
T HOVAN	AS NOTED	

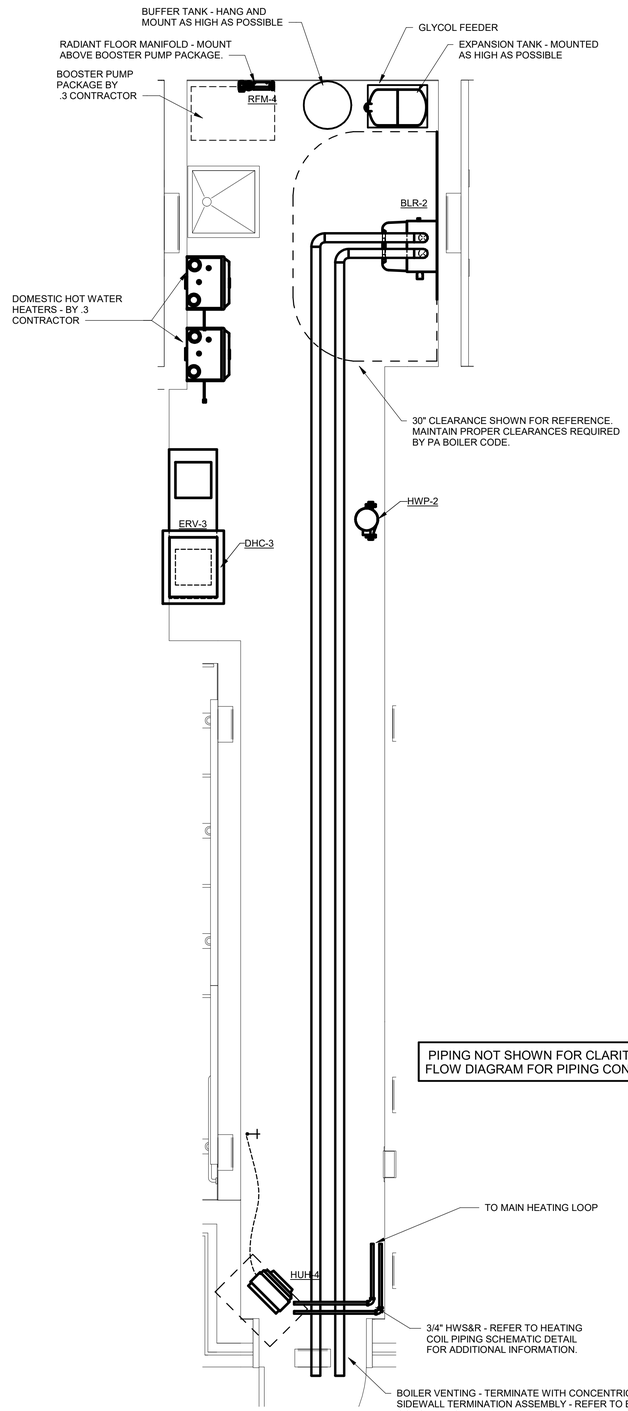


RADIANT FLOOR NOTES (TYPICAL FOR ALL RADIANT FLOOR IN THIS BUILDING)

1. SPACE ALL PEX TUBING ON 12" OC
2. ALL PEX TUBING SHALL BE 3/4" ID
3. PROVIDE SLAB TEMPERATURE SENSOR FOR EACH HEATING ZONE AS INDICATED.
4. MODIFY ROUTING SHOWN AS REQUIRED FOR COORDINATION WITH FLOOR DRAINS AND OTHER FLOOR PENETRATING APPURTENANCES.
5. REFER TO RADIANT FLOOR DETAILON DWG M-9 FOR ADDITIONAL INFORMATION.
6. PROVIDE PEX INSULATION BELOW SLAB PER DETAIL UNDER ENTIRE FLOOR SERVED BY RADIANT SYSTEM.

1 OGTC - PIPING

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



2 OGTC - MECHANICAL ROOM ENLARGED VIEW

SCALE: 1/2" = 1'-0"

CONSTRUCTION DOCUMENTS

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER No. PE084434

SIGNATURE DATE

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HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C–114–0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

OGTC FLOOR PLAN – MECHANICAL PIPING

VERIFY SCALE

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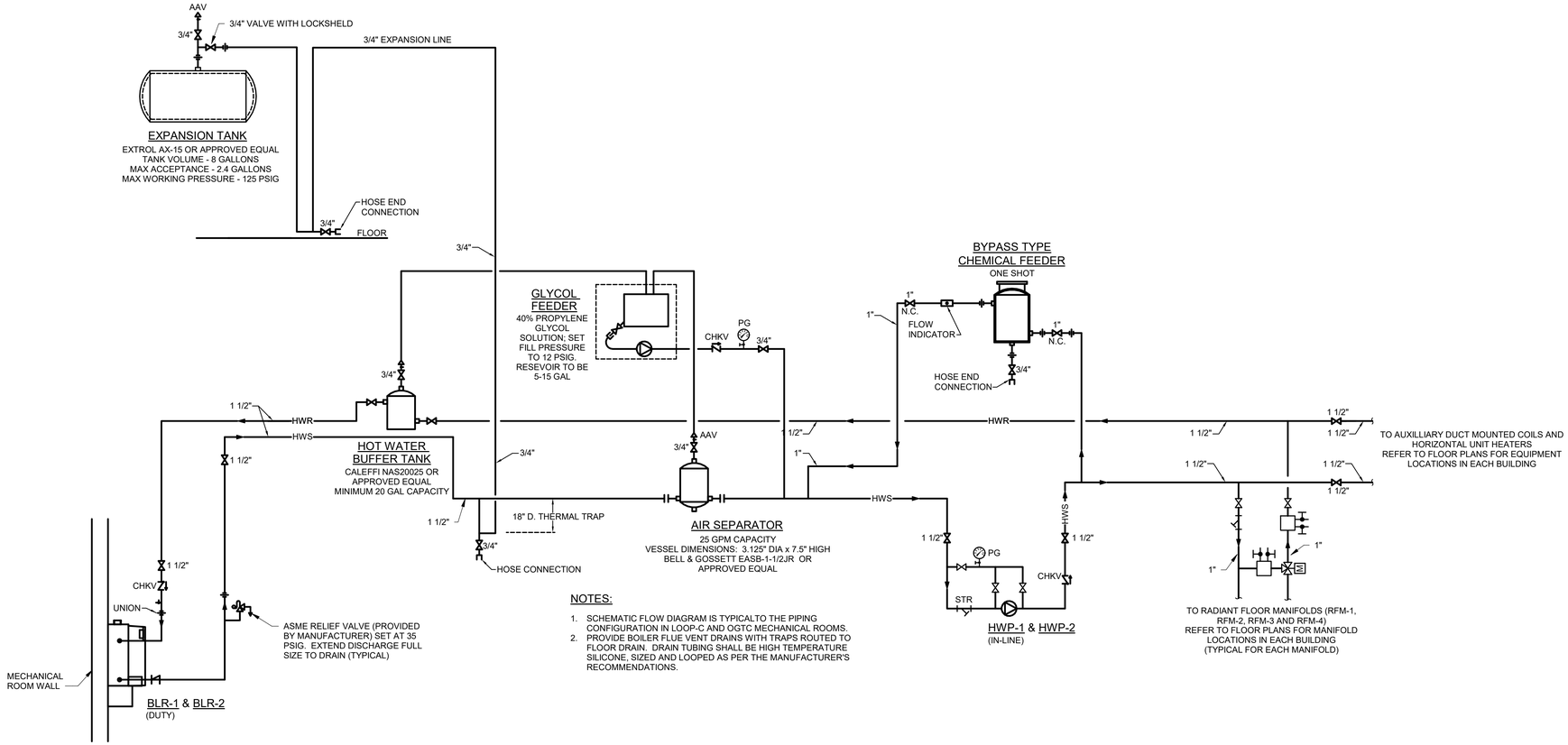
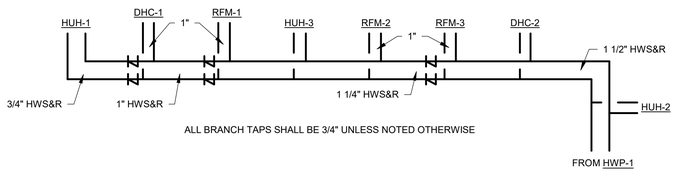
DRAWN BY	DATE	DRAWING No.
W MINAHAN	06/17/2022	M–7
CHECKED BY	SCALE	
T HOVAN	AS NOTED	



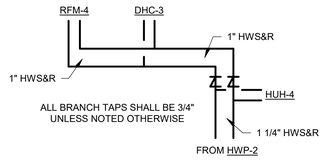
NOTES:

1. SCHEMATIC FLOW DIAGRAM IS TYPICALTO THE PIPING CONFIGURATION IN LOOP-C AND OGTC MECHANICAL ROOMS.
2. PROVIDE BOILER FLUE VENT DRAINS WITH TRAPS ROUTED TO FLOOR DRAIN. DRAIN TUBING SHALL BE HIGH TEMPERATURE SILICONE, SIZED AND LOOPED AS PER THE MANUFACTURER'S RECOMMENDATIONS.

1 LOOP-C AND OGTC HOT WATER SCHEMATIC FLOW DIAGRAM
NOT TO SCALE



2 LOOP-C PIPING RISER DIAGRAM
NOT TO SCALE



3 OGTC PIPING RISER DIAGRAM
NOT TO SCALE

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
WILLIAM ANDREW MINAHAN
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No. PE084434
6/17/2022
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

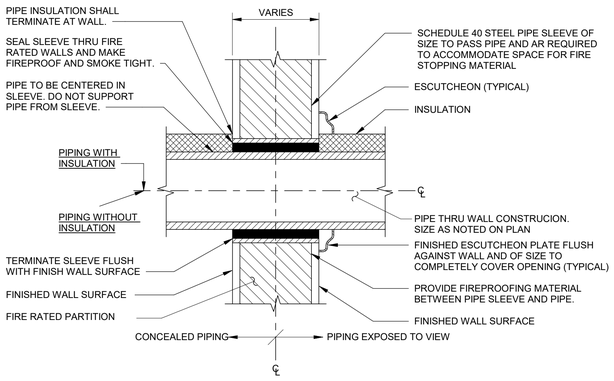
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ——— 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

HOT WATER SCHEMATIC FLOW DIAGRAM

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY W MINAHAN	DATE 06/17/2022	DRAWING No. M-8
CHECKED BY T HOVAN	SCALE AS NOTED	



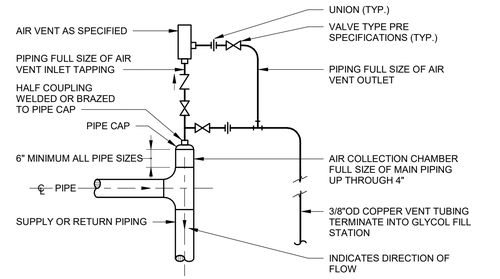
INTERIOR WALLS

NOTES:

1. APPROVED FIRE STOPPING SHALL BE PROVIDED AND INSTALLED AT ALL EXISTING AND NEW WALL PENETRATION THRU TIME RATED WALLS AND PARTITIONS.

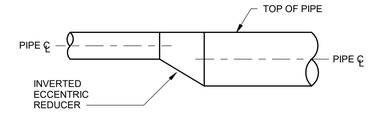
1 PIPE SLEEVE THRU WALL DETAIL

NOT TO SCALE



2 AUTOMATIC AIR VENT DETAIL FOR MAIN 4" DIAMETER OR SMALLER

NOT TO SCALE



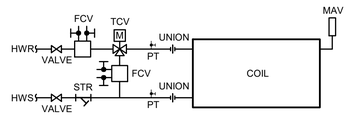
3 TYPICAL PIPE SIZE CHANGE FOR WATER

NOT TO SCALE

NOTES:

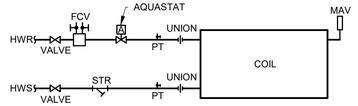
1. INSTALL DRAIN PAN BELOW ALL VALVES AND UNINSULATED PIPING
2. CONTROL VALVE SHALL BE PROVIDED WITH ADJACENT UNIONS TO FACILITATE REMOVAL
3. TYPICAL FOR ALL HEATING COILS - HUH AND DHC.

ALL WORK ASSOCIATED WITH SHEHAQUA IS BASE BID #2
ALL WORK ASSOCIATED WITH CAMP DADDY ALLEN IS BASE BID #3



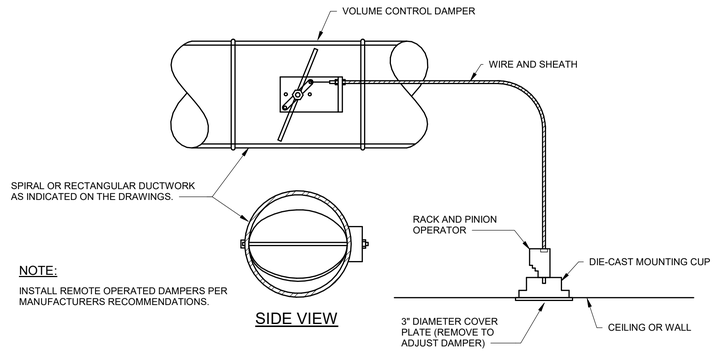
4 HEATING COIL PIPING SCHEMATIC - HOT WATER - 3-WAY

NOT TO SCALE



5 HORIZONTAL UNIT HEATER COIL PIPING SCHEMATIC - HOT WATER -2-WAY

SCALE: 1/8" = 1'-0"



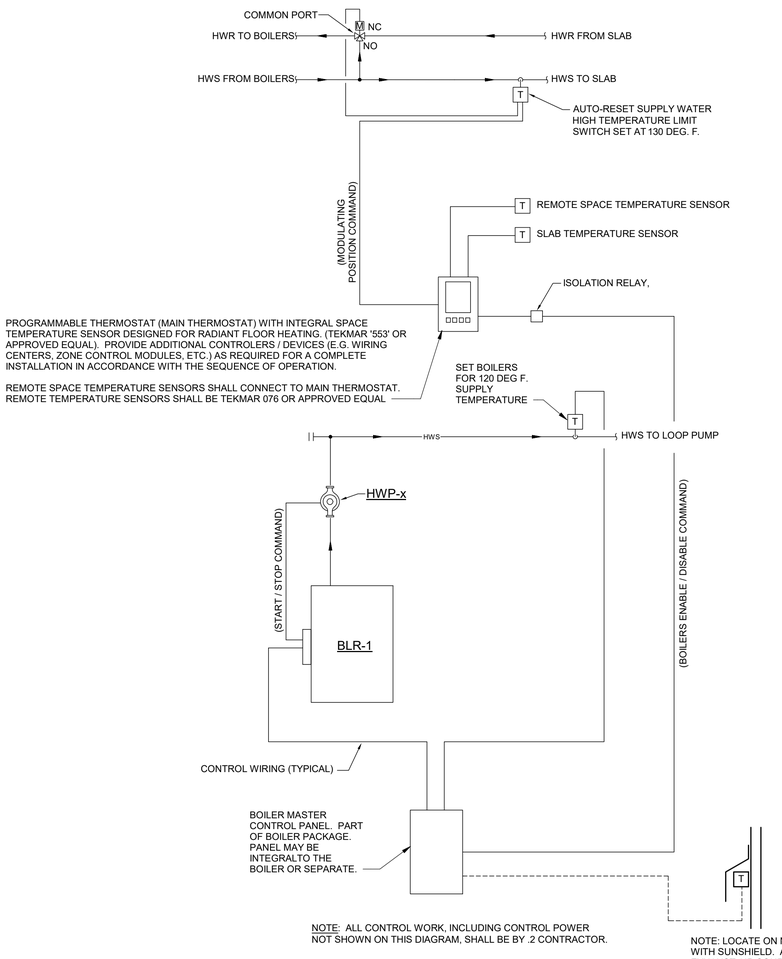
NOTE:

INSTALL REMOTE OPERATED DAMPERS PER MANUFACTURERS RECOMMENDATIONS.

SIDE VIEW

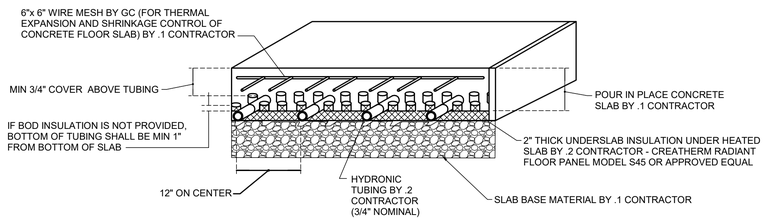
8 CABLE CONTROL VOLUME CONTROL DAMPER - (CONTROL FROM WALL OR CEILING)

NOT TO SCALE



6 RADIANT FLOOR SLAB HEATING SYSTEM CONTROL DIAGRAM

NOT TO SCALE

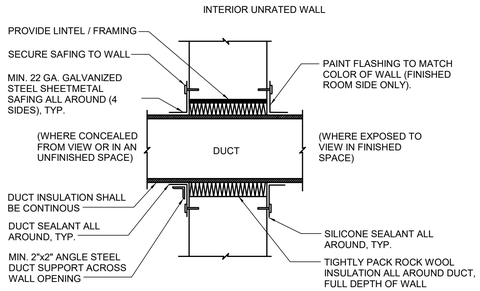


NOTES

1. REFER TO ARCHITECTURAL, CIVIL, LANDSCAPING, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. IN THE EVENT OF A CONFLICT BETWEEN THIS DETAIL AND INFORMATION IN THE STRUCTURAL OR ARCHITECTURAL CONSTRUCTION DOCUMENTS, THE LATTER SHALL TAKE PRECEDENCE.
2. METAL DECK, CONCRETE SLAB, SLAB REINFORCEMENT, AND SIDE INSULATION SHALL BE PROVIDED BY THE .1 CONTRACTOR
3. TUBING AND INSULATED RADIANT FLOOR PANELS FOR SECURING TUBING SHALL BE PROVIDED BY THE .2 CONTRACTOR
4. 2" THICK UNDERSLAB INSULATION, REQUIRED FOR RADIANT FLOOR, SHALL COVER ENTIRE SLAB AREA INCLUDING MECHANICAL SPACES.

7 RADIANT HEATING SLAB ON GRADE DETAIL

NOT TO SCALE



NOTE: THIS DETAIL DOES NOT APPLY TO FIRE OR SMOKE RATED WALLS.

9 DUCT PENETRATION DETAIL - INTERIOR WALL

NOT TO SCALE

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
WILLIAM ANDREW MINAHAN
ENGINEER No. PE084434

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

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DRAWN BY	DATE	DRAWING No.
W MINAHAN	06/17/2022	M–9
CHECKED BY	SCALE	
T HOVAN	AS NOTED	

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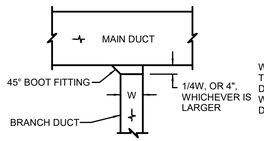
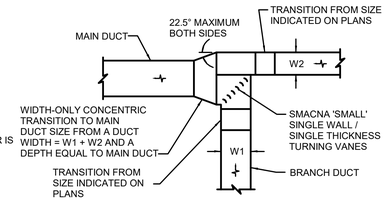
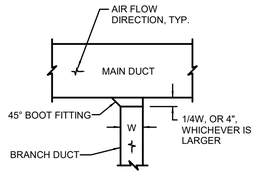
ALL WORK ASSOCIATED WITH CAMP DADDY ALLEN IS BASE BID #3



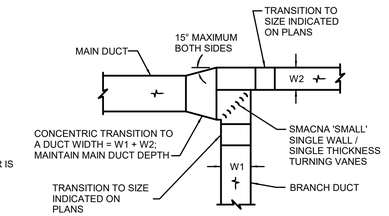
CONVERGING BRANCH DUCT TAKE-OFF WHERE BRANCH DUCT FLOW AREA IS LESS THAN 25% OF MAIN DUCT AREA



CONVERGING BRANCH DUCT TAKE-OFF WHERE BRANCH DUCT FLOW AREA IS GREATER THAN 25% OF MAIN DUCT AREA

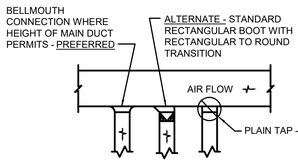


DIVERGING BRANCH DUCT TAKE-OFF WHERE BRANCH DUCT AREA IS LESS THAN 25% OF MAIN DUCT AREA

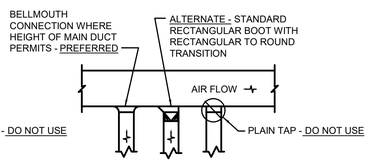


DIVERGING BRANCH DUCT TAKE-OFF WHERE BRANCH DUCT AREA IS GREATER THAN 25% OF MAIN DUCT AREA

RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR DUCT



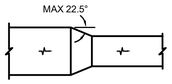
DIVERGING BRANCH FLOW



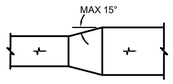
CONVERGING BRANCH FLOW

NOTES:
1. ALTERNATE FITTINGS SHALL BE USED WHEN DUCT HEIGHT DOES NOT PERMIT THE USE OF THE PREFERRED FULL SIZE BELLMOUTH.
2. THIS DETAIL APPLIES TO BRANCH RUNOUTS TO DIFFUSERS AS WELL AS SUB-MAIN BRANCH DUCT TAKEOFFS.
3. FOR ALTERNATE RECTANGULAR CONNECTIONS, THE ROUND TO RECTANGULAR TRANSITION SHALL BE TO A SIZE EQUAL TO THE MAIN DUCT HEIGHT, AND A WIDTH AS REQUIRED TO MAINTAIN AN EQUAL OR GREATER FLOW AREA AS THE CONNECTING ROUND BRANCH DUCT.

ROUND BRANCH DUCT CONNECTIONS TO RECTANGULAR MAIN DUCT



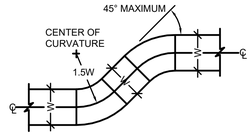
FROM LARGER TO SMALLER



FROM SMALLER TO LARGER

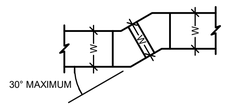
NOTE: CONCENTRIC TRANSITIONS SHOWN, HOWEVER ANGLE LIMITATIONS APPLY TO ECCENTRIC TRANSITIONS.

TRANSITIONS



NOTE: FULL RADIUS ELBOWS WHERE POSSIBLE (CENTERLINE RADIUS =1.5W); WHERE NECESSARY USE REDUCED RADIUS ELBOWS (CENTERLINE RADIUS=1W)

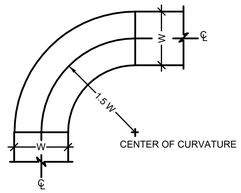
RADIUS ELBOW OFFSETS



NOTE: MITERED ELBOWS SHALL ONLY BE USED WHERE THE OFFSET DISTANCE IS TOO SMALL FOR RADIUS ELBOWS.

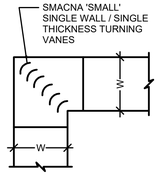
MITERED ELBOW OFFSETS

OFFSETS



NOTES:
1. 90° ELBOW SHOWN, HOWEVER SIMILAR RADIUS CONSTRUCTION SHALL BE PROVIDED FOR ALL ANGLES.
2. THIS DETAIL APPLIES TO RECTANGULAR RADIUS ELLS AND TO ROUND ELBOWS WITH DIAMETERS SMALLER THAN 13" DIA. ROUND ELBOWS 13" DIA. AND LARGER SHALL BE GORED TYPE, WITH NO LESS THAN FIVE (5) SEGMENTS (FOUR 22.5 DEG. CHANGES IN DIRECTION PER 90 DEG. ELL.)
3. CENTERLINE RADIUS MAY BE REDUCED TO 1W WHERE THE FULL 1.5W RADIUS ELL DOES NOT FIT, WITH THE PRIOR APPROVAL OF THE ENGINEER.
4. PROVIDE SPLITTER VANES WHERE INDICATED ON THE PLANS.

RADIUS ELBOWS

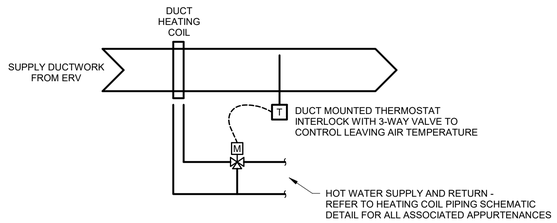


NOTES:
1. USE THIS DESIGN WHERE MITERED 90 ELLS ARE SHOWN ON PLANS OR IF SPACE CONDITIONS DO NOT PERMIT INSTALLATION OF FULL RADIUS 90 DEG. ELLS.
2. PROVIDE TURNING VANES IN ALL MITERED DUCT ELBOWS, EXCEPT FOR TRANSFER DUCTS, AND GREASE EXHAUST DUCTS, AND SOLID MATERIAL-HANDLING DUCTS.
3. VANES MAY NOT BE EXPLICITLY SHOWN ON THE PLANS FOR CLARITY PURPOSES ONLY.

MITERED 90 DEG. ELBOW - RECTANGULAR DUCT

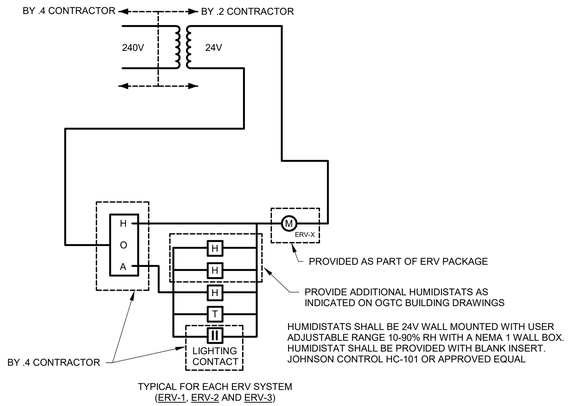
ELBOWS

1 DUCTWORK FITTING DETAILS
NOT TO SCALE



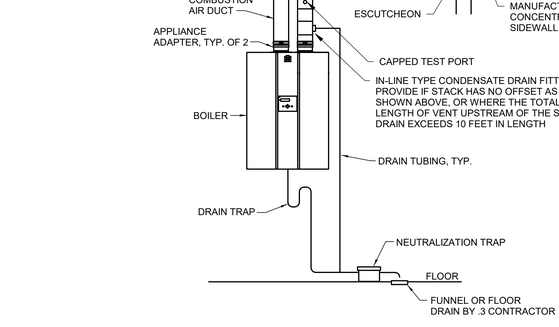
TYPICAL FOR ALL DUCT HEATING COILS (DHC-1, DHC-2 AND DHC-3)

3 DUCT HEATING COIL - CONTROL DIAGRAM
NOT TO SCALE



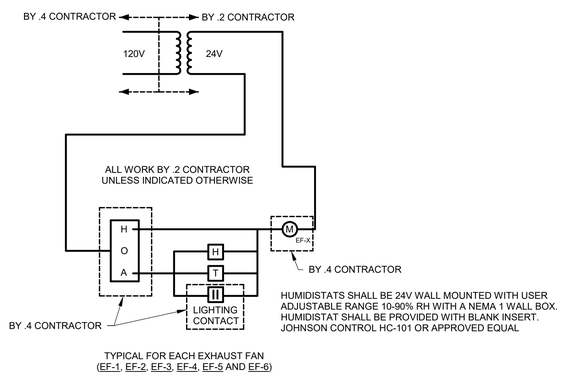
TYPICAL FOR EACH ERV SYSTEM (ERV-1, ERV-2 AND ERV-3)

4 ERV CONTROL DIAGRAM
NOT TO SCALE



NOTES:
1. IF THIS DETAIL CONFLICTS WITH THE APPLIANCE MANUFACTURER'S STRICT REQUIREMENTS, THEN THOSE STRICT REQUIREMENTS SHALL TAKE PRECEDENCE.
2. VENTING MATERIAL SHALL BE AS SPECIFIED. PVC, CPVC, AND OTHER MATERIALS PERMITTED (BUT NOT REQUIRED) BY THE APPLIANCE MANUFACTURER THAT ARE NOT SPECIFIED ARE NOT PERMITTED.
3. DRAIN TUBING SHALL BE CPVC, STAINLESS STEEL, OR ANOTHER MATERIAL ACCEPTABLE TO THE APPLIANCE MANUFACTURER. MATERIAL SHALL BE SUITABLE FOR 180 DEG F. WATER.
4. DRAIN SIZES AND TRAP DEPTHS SHALL BE AS RECOMMENDED BY THE APPLIANCE MANUFACTURER OR VENTING SYSTEM MANUFACTURER.
5. PROVIDE REQUIRED HORIZONTAL AND VERTICAL CLEARANCES BETWEEN COMBUSTION AIR INTAKE AND VENT OUTLET AS PER BOILER MANUFACTURER'S REQUIREMENTS.

2 BOILER CONCENTRIC VENTING DETAIL
NOT TO SCALE



TYPICAL FOR EACH EXHAUST FAN (EF-1, EF-2, EF-3, EF-4, EF-5 AND EF-6)

5 EF CONTROL DIAGRAM
SCALE: 12" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER No. PE084434 PENNSYLVANIA

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
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W MINAHAN	06/17/2022	M-10
CHECKED BY	SCALE	
T HOVAN	AS NOTED	

ALL WORK ASSOCIATED WITH SHEHAQUA IS BASE BID #2
ALL WORK ASSOCIATED WITH CAMP DADDY ALLEN IS BASE BID #3

EXHAUST FAN SCHEDULE

SYMBOL	LOCATION	SERVES	FAN CFM	FAN TYPE	DRIVE TYPE	MOTOR TYPE	ESP IN	BHP	HP	RPM	VFD	ELECTRICAL DATA			CONTROL TYPE	WEIGHT	BASIS OF DESIGN
												VOLTAGE	PHASE	FLA			
EF-1	JOIST SPACE	CAMP DADDY ALLEN	320 CFM	CENTRIFUGAL INLINE	DIRECT	EC MOTOR	0.35 in-wg	0.06	0.1	1613	SEE NOTE 1	120 V	1	1.4	OCCUPANCY / HUMIDITY SENSOR	49	GREENHECK SQ-80-VG
EF-2	JOIST SPACE	CAMP DADDY ALLEN	320 CFM	CENTRIFUGAL INLINE	DIRECT	EC MOTOR	0.35 in-wg	0.06	0.1	1613	SEE NOTE 1	120 V	1	1.4	OCCUPANCY / HUMIDITY SENSOR	49	GREENHECK SQ-80-VG
EF-3	JOIST SPACE	CAMP DADDY ALLEN	120 CFM	CENTRIFUGAL INLINE	DIRECT	EC MOTOR	0.35 in-wg	0.03	0.06	1583	SEE NOTE 1	120 V	1	0	OCCUPANCY / HUMIDITY SENSOR	30	GREENHECK SQ-70-VG
EF-4	JOIST SPACE	CAMP SHEHAQUA	320 CFM	CENTRIFUGAL INLINE	DIRECT	EC MOTOR	0.35 in-wg	0.06	0.1	1613	SEE NOTE 1	120 V	1	1.4	OCCUPANCY / HUMIDITY SENSOR	49	GREENHECK SQ-80-VG
EF-5	JOIST SPACE	CAMP SHEHAQUA	320 CFM	CENTRIFUGAL INLINE	DIRECT	EC MOTOR	0.35 in-wg	0.06	0.1	1613	SEE NOTE 1	120 V	1	1.4	OCCUPANCY / HUMIDITY SENSOR	49	GREENHECK SQ-80-VG
EF-6	JOIST SPACE	CAMP SHEHAQUA	120 CFM	CENTRIFUGAL INLINE	DIRECT	EC MOTOR	0.35 in-wg	0.03	0.06	1583	SEE NOTE 1	120 V	1	0	OCCUPANCY / HUMIDITY SENSOR	30	GREENHECK SQ-70-VG

NOTES:

1. ALL FANS SHALL BE PROVIDED WITH AN EC MOTOR WITH MANUAL ADJUSTABLE DIAL FOR BALANCING.

BOILER SCHEDULE

SYMBOL	LOCATION	SERVES	FUEL TYPE	MAX INPUT MBH	MIN INPUT MBH	AFUE	GAS PRESSURE		WATER TEMP		HEATING FLUID TYPE	WATER FLOW RATE		HEATING TURN DOWN	DIMENSIONS			ELECTRICAL DATA			WEIGHT	BASIS OF DESIGN
							MIN	MAX	EWT	LWT		MIN	MAX		HEIGHT	LENGTH	DEPTH	VOLTAGE	PHASE	AMPS		
BLR-1	LOOP-C MECH A106	LOOP-C	PROPANE	110	11.0	95	8.00 in-wg	14.00 in-wg	100	120	40% PROPYLENE GLYCOL	2.2 GPM	20 GPM	10:1	31 1/4"	18 3/4"	19"	120 V	1	4	159	LOCHINVAR WHB110N
BLR-2	OGTC - MECH B101	OGTC	PROPANE	85	8.5	95	8.00 in-wg	14.00 in-wg	100	120	40% PROPYLENE GLYCOL	1.7 GPM	14 GPM	10:1	13 1/4"	18 3/4"	16"	120 V	1	4	142	LOCHINVAR WHB85N

NOTES:

1. BOILER SHALL BE PROVIDED WITH FACTORY PROVIDED CIRCULATION PUMP TO BE FIELD INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ENERGY RECOVERY VENTILATOR SCHEDULE

SYMBOL	LOCATION	SERVES	SUMMER OPERATION									WINTER OPERATION									EXHAUST FILTER TYPE	SUPPLY FILTER TYPE	BASIS OF DESIGN
			SUPPLY AIR				EXHAUST AIR				EFFECTIVENESS	SUPPLY AIR				EXHAUST AIR				EFFECTIVENESS			
			EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)		EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)				
ERV-1	LOOP-C MECH A100	LOOP-C WOMEN'S ROOM	90	72	79.8	67.0	75	63.0	85.2	68.5	58	5	5.0	51	40.7	72	54	31.6	29.1	65	MERV-8	MERV-8	MICROMETL FWVH
ERV-2	LOOP-C MECH A106	LOOP-C MEN'S ROOM	90	72	80.8	67.2	75	63.0	84.8	68.3	55	5	5.0	50	39.6	72	54	32.4	29.9	62.3	MERV-8	MERV-8	MICROMETL FWVH
ERV-3	OGTC - MECH B101	OGTC	90	72	80.5	67.5	75	63.0	84.4	68	51.5	5	5.0	48	38.3	72	54	33.4	30.8	59.5	MERV-8	MERV-8	MICROMETL FWVH

NOTES:

1. ALL ERV UNITS SHALL BE PROVIDED WITH OUTDOOR AND EXHAUST ISOLATION DAMPERS INTEGRAL AND CONTROLLED BY THE UNIT.
2. ALL ERV UNITS SHALL BE PROVIDED WITH A SINGLE POINT ELECTRICAL CONNECTION.

ENERGY RECOVERY VENTILATOR SCHEDULE - FAN SECTION

SYMBOL	SUPPLY FAN SECTION						EXHAUST FAN SECTION						ELECTRICAL DATA				WEIGHT
	CFM	ESP	TSP	BHP	HP	VFD	CFM	ESP	TSP	BHP	HP	VFD	VOLTAGE	FLA	MCA	MOCP	
ERV-1	670	0.80	0.00	2.3	4	NONE	670	0.50	0.00	3.4	4	NONE	240 V	18	22.5	22.5	480
ERV-2	810	0.85	0.00	2.3	4	NONE	810	0.50	0.00	3.4	4	NONE	240 V	18	22.5	22.5	480
ERV-3	980	0.85	0.00	2.3	4	NONE	810	0.50	0.00	3.4	4	NONE	240 V	18	22.5	22.5	480

DUCT HEATING COIL

SYMBOL	LOCATION	CFM	DUCT CONNECTION SIZE		APD IN WG	MBH TOTAL	EWT	LWT	GPM	HEATING FLUID TYPE	NO. ROWS	FINS PER INCH	WPD FT HD	BASIS OF DESIGN
			WIDTH	HEIGHT										
DHC-1	LOOP-C MECH A100	670 CFM	1' - 4"	1' - 3"	0.19 in-wg	29.9	120	100	3.1 GPM	40% PROPYLENE GLYCOL	3	10	4	USA COIL HW58CCK
DHC-2	LOOP-C MECH A106	810 CFM	1' - 4"	1' - 3"	0.28 in-wg	32.5	120	95.2	2.8 GPM	40% PROPYLENE GLYCOL	3	11	7	USA COIL HW58CCL
DHC-3	OGTC - MECH B101	980 CFM	1' - 8"	1' - 4"	0.27 in-wg	42.6	120	100	4.5 GPM	40% PROPYLENE GLYCOL	3	13	4	USA COIL HW58CCN

HORIZONTAL UNIT HEATER SCHEDULE

SYMBOL	LOCATION	CFM	MBH	GPM	HEATING FLUID TYPE	EWT	LWT	WPD	FAN HP	FAN RPM	VOLTAGE	PHASE	MOUNTING HEIGHT	BASIS OF DESIGN
HUH-1	LOOP-C MECH A100	550 CFM	26.1	2.7	40% PROPYLENE GLYCOL	120	100	0.10	0.03	1550	120 V	1	9'	STERLING HS-36
HUH-2	LOOP-C MECH A106	550 CFM	26.1	2.7	40% PROPYLENE GLYCOL	120	100	0.10	0.03	1550	120 V	1	9'	STERLING HS-36
HUH-3	LOOP-C MECH A103	550 CFM	26.1	2.7	40% PROPYLENE GLYCOL	120	100	0.10	0.03	1550	120 V	1	9'	STERLING HS-36
HUH-4	OGTC - MECH B101	550 CFM	26.1	2.7	40% PROPYLENE GLYCOL	120	100	0.10	0.03	1550	120 V	1	9'	STERLING HS-36

ELECTRIC WALL HEATER

SYMBOL	LOCATION	CFM	HEATING MBH	KW	VOLTAGE	PHASE	AMPS	MOUNTING TYPE	RECESS	BASIS OF DESIGN
EWH-1	LOOP-C RESTROOM A102	50 CFM	6.8	2	240 V	1	8.4	WALL	WALL	QMARK - GFR2004
EWH-2	LOOP-C RESTROOM A104	50 CFM	6.8	2	240 V	1	8.4	WALL	WALL	QMARK - GFR2004
EWH-3	OGTC - RESTROOM B103	50 CFM	6.8	2	240 V	1	8.4	WALL	WALL	QMARK - GFR2004

NOTES:

1. ALL ELECTRIC WALL HEATERS SHALL BE PROVIDED WITH AN INTERNAL THERMOSTAT.

RADIANT FLOOR HEATING MANIFOLD CIRCUIT SCHEDULE

MANIFOLD	CIRCUIT #	SERVES	GPM	TUBE SIZE (IN)	TUBING SPACING OC (IN)	CIRCUIT LENGTH	MAX PD (FT)	ENTERING WATER TEMP	WATER TEMPERATURE DROP	FLOOR SURFACE TEMP	FLUID TYPE
RFM-1	1	WOMAN - A101	1.2	3/4"	12"	353 LF	3.50	120	20	85 °F	40% PROPYLENE GLYCOL
RFM-1	2	WOMAN - A101	1.2	3/4"	12"	353 LF	3.50	120	20	85 °F	40% PROPYLENE GLYCOL
RFM-2	1	RESTROOM - A102	0.7	3/4"	12"	210 LF	0.80	120	20	85 °F	40% PROPYLENE GLYCOL
RFM-2	2	RESTROOM -A104	0.7	3/4"	12"	210 LF	0.80	120	20	85 °F	40% PROPYLENE GLYCOL
RFM-3	1	MEN - A105	0.5	3/4"	12"	133 LF	0.20	120	20	85 °F	40% PROPYLENE GLYCOL
RFM-3	2	MEN - A105	0.5	3/4"	12"	133 LF	0.20	120	20	85 °F	40% PROPYLENE GLYCOL
RFM-4	1	WOMEN - B102, RESTROOM - B103	0.8	3/4"	12"	225 LF	1.00	120	20	85 °F	40% PROPYLENE GLYCOL
RFM-4	2	MEN - B100	0.8	3/4"	12"	225 LF	1.00	120	20	85 °F	40% PROPYLENE GLYCOL

PUMP SCHEDULE

SYMBOL	TYPE	SYSTEM	OPERATION DUTY/STANDBY	FLUID	OPERATING CONDITIONS				MOTOR HP	MOTOR RPM	ELECTRICAL DATA		MOTOR TYPE	IMPELLER SIZE	BASIS OF DESIGN
					GPM	FT HD	EFF	BHP			VOLTAGE	PHASE			
HWP-1	INLINE	HOT WATER	DUTY	40% PROPYLENE GLYCOL	20 GPM	23	47.50%	0.25	0.75	1800	120 V	1	ECM MOTOR	0' - 5 1/2"	BELL & GOSSETT e-60 ECM 1.5x1.5x5.25
HWP-2	INLINE	HOT WATER	DUTY	40% PROPYLENE GLYCOL	12 GPM	16	40.70%	0.12	0.33	1800	120 V	1	ECM MOTOR	0' - 5"	BELL & GOSSETT e-60 ECM 1.25x1.25x5.25

NOTES:

1. ALL PUMPS SHALL BE PROVIDED WITH AN EC MOTOR WITH MANUAL ADJUSTABLE DIAL FOR BALANCING.

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
WILLIAM ANDREW MINAHAN
ENGINEER No. PE084434
6/17/2022

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ▬▬▬ 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

MECHANICAL SCHEDULES

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY W MINAHAN | DATE 06/17/2022 | DRAWING No. M-11
CHECKED BY T HOVAN | SCALE AS NOTED

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WATER RISER (SIZE 5")		ACCESS/PANEL BOX 18x4
	SANITARY/WASTE OR VENT STACK (SIZE 6")		PILOT OPERATED VALVE
	AUTOMATIC AIR VENT		PIPE ANCHOR
BP	BACK FLOW PREVENTER		PIPE BOTTOM CONNECTION
	BALANCING VALVE		PIPE DOWN
	BALL VALVE LEVER		PIPE GUIDE
	CHECK VALVE		PRESSURE GAUGE
	CIRCULATING PUMP		PRESSURE REDUCING VALVE
	CLEANOUT IN RISER	PS	PRESSURE SWITCH
	CLEANOUT EXTENDED UP TO FLOOR/GRADE		RELIEF VALVE
	COMBINATION HOSE BIBB		SHOWER HEAD
	CONCENTRIC REDUCER		STRAINER
	DIAPHRAGM VALVE		TEMPERATURE GAUGE
	DOUBLE CHECK VALVE	TS	TEMPERATURE SWITCH
	ECCENTRIC REDUCER	TP	TRAP PRIMER
	CAP OR PLUG		UNION
	EXPOSED MIXING VALVE	HB	HOSE BIBB
	FILTER	WH	WALL HYDRANT
FXC	FLEX CONNECTION		NEW CONNECTION TO EXISTING
	FLOOR DRAIN W/ OUT TRAP	X	INDICATES NOTE LOCATED ELSEWHERE ON DRAWING AND NOTE NUMBER
	FLOOR DRAIN CORNER CONNECTION		SQUARE FOOT
	FLOOR DRAIN SIDE CONNECTION	X / FXXX	DETAIL/PLAN REFERENCE SYMBOL INDICATES DETAIL/PLAN NUMBER INDICATES DRAWING No. FOR WHICH THE DETAIL/PLAN IS LOCATED.
	FLOW DIRECTION ARROW		
	FUNNEL DRAIN	BLW	BELOW
	GAS COCK VALVE	FLR	FLOOR
R	GAS PRESSURE REGULATOR	ABV	ABOVE
	GATE VALVE	CLG	CEILING
M	MOTORIZED VALVE		
	GATE VALVE OS & Y		
	PRESSURE REGULATOR VALVE		
S	SOLENOID VALVE		
	HAMMER ARRESTER		
M	METER		

PLUMBING PIPING LEGEND

SYMBOL	DESCRIPTION
SW	SANITARY WASTE
SV	SANITARY VENT
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
G	LIQUID PROPANE GAS

PLUMBING GENERAL NOTES:

(1.) THE DRAWINGS ARE DIAGRAMMATIC AND SHOW ONLY THE GENERAL ARRANGEMENTS OF PIPING AND EQUIPMENT. ALL OFFSETS, FITTINGS, AND ACCESSORIES ARE NOT SHOWN, WHICH MAY BE REQUIRED TO AVOID STRUCTURAL FEATURES.

(2.) DO NOT SCALE DRAWINGS - ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE. NOTIFY PROFESSIONAL OF ANY DEVIATIONS FROM THE DRAWINGS.

(3.) REPORT ANY DISCREPANCIES FOUND IN THE DRAWINGS AND/OR IN THE SPECIFICATIONS DURING THE BIDDING PROCESS FOR CLARIFICATION BY THE PROFESSIONAL.

(4.) ALL WORK THAT IS TO BE PERFORMED UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, ORDINANCES, AND REGULATIONS OF THE LOCAL GOVERNING AUTHORITIES, STATE GOVERNING AUTHORITIES AND NATIONAL GOVERNING AUTHORITIES.

(5.) ALL WORK THAT IS TO BE PERFORMED UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST OSHA SAFETY AND HEALTH STANDARDS.

(6.) THE .3 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE .1 CONTRACTOR AND UTILITY AUTHORITIES FOR INSTALLATION REQUIREMENTS, REGULATIONS, FEES, PERMITS AND APPROVALS AS NECESSARY TO COMPLETE THE UTILITY INSTALLATION.

(7.) THE CONTRACTOR SHALL FURNISH LAYOUT DRAWINGS OF ANY RELOCATED PIPING, EQUIPMENT, ETC., FOR APPROVAL PRIOR TO RELOCATION OF ITEM.

(8.) ALL PIPE PENETRATIONS THROUGH CHASE, WALLS OR FLOORS WHICH ARE FIRE-RATED, SHALL BE PROPERLY SEALED TO MAINTAIN FIRE PROTECTION. CONTRACTOR SHALL SUBMIT PROPOSED UL LISTED SYSTEM FOR APPROVAL.

(9.) ALL WORK TO BE LOCATED AND COORDINATED WITH ARCHITECTURAL DRAWINGS, SPECIFICATIONS AND OTHER CONTRACTORS.

(10.) ALL WORK IN FINISHED AREAS SHALL BE CONCEALED ABOVE CEILINGS, BELOW FLOORS AND IN WALLS.

(11.) THE REMOVAL AND CLEANUP OF ALL DEBRIS ASSOCIATED WITH WORK THAT IS TO BE PERFORMED BY THE .3 CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

(12.) THE CONTRACTOR SHALL COORDINATE THE LOCATION OF PLUMBING PIPING AND EQUIPMENT WITH ALL HVAC PIPING, DUCTWORK, HVAC EQUIPMENT, ELECTRICAL CONDUIT AND ELECTRICAL EQUIPMENT THAT IS TO BE INSTALLED BY OTHER CONTRACTORS.

(13.) WHERE THE SPACE ABOVE CEILINGS IN THE BUILDING IS DESIGNATED AS A RETURN AIR PLENUM, ALL EQUIPMENT, PIPING VALVES, FITTINGS, ETC IN THIS SPACE SHALL BE RATED AND APPROVED FOR THIS APPLICATION.

(14.) THE .3 CONTRACTOR SHALL LOCATE UNDERGROUND PIPING WITHIN LIMITS OF THE STRUCTURE IN COORDINATION WITH THE GENERAL CONTRACTOR, TO ASSURE NO FOOTING WILL BE UNDERMINED BY TRENCHING. ANY PIPING TRENCH SHALL BE LOCATED SO THE TRENCH EDGE IS NOT CLOSER TO ANY STRUCTURAL FOOTING THAN 1 1/2 TIMES THE VERTICAL DISTANCE FROM TRENCH BOTTOM TO FOOTING BOTTOM. IN ANY EVENT THIS CONDITION IS NOT MET, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING THE PIPING TO FILL THE TRENCH WITH LEAN CONCRETE, AFTER PIPING IS INSTALLED, TO AN ELEVATION WHERE THE SURFACE OF THE CONCRETE SHALL BE NOT CLOSER TO ANY FOOTING THAN TWICE THE VERTICAL DISTANCE BETWEEN FOOTING BOTTOM AND THE CLOSEST EDGES OF THE CONCRETE POURED IN THE TRENCH.

(15.) WHERE EXCAVATIONS FOR PIPING EXTEND UNDER AND PERPENDICULAR TO A WALL FOOTING, THE CONTRACTOR INSTALLING THE PIPING SHALL FILL THE TRENCH WITH CONCRETE SOLIDLY TO BOTTOM OF FOOTING FOR A TRENCH LENGTH OF 3'- 0" BEYOND EACH WALL FACE.

(16.) ALL WATER LINES IN EXTERIOR WALLS SHALL BE INSULATED AND LOCATED WITHIN THE INSULATION ENVELOPE OF THE BUILDINGS EXTERIOR WALL.

(17.) INSTALL WALL HYDRANTS AT A MINIMUM OF 2'-0" ABOVE FINISHED GRADE, UNLESS OTHERWISE INDICATED.

(18.) SET ALL FLOOR AND FUNNEL DRAINS OVER P-TRAPS, UNLESS SPECIFIED OTHERWISE.

(19.) PROVIDE SHUT-OFF COCK AT EACH CONNECTION TO GAS EQUIPMENT.

(20.) PROVIDE DIRT LEG AT BOTTOM OF ALL VERTICAL RISERS AND DROPS IN GAS LINES.

(21.) THE .3 CONTRACTOR SHALL REFER TO APPLICABLE CODES FOR ACCEPTABLE DRAINAGE SYSTEM FITTINGS.

(22.) DIELECTRIC UNIONS AND FLANGES SHALL BE USED ON ALL CONNECTIONS BETWEEN DISSIMILAR METALS.

(23.) ALL HORIZONTAL PIPING ABOVE CEILING, AT CEILING OR BELOW FLOOR SHALL BE INSTALLED (AS HIGH AS POSSIBLE) TIGHT TO UNDERSIDE OF SLAB/STRUCTURE WITH SPACE FOR INSULATION AND HANGERS AS REQUIRED, UNLESS LINES ARE RUN BELOW SLAB ON GRADE.

(24.) MEANS OF ACCESS SHALL BE PROVIDED TO CONCEALED TRAPS, VALVES, CLEANOUTS, DRAIN POINTS OR SIMILAR ITEMS. CONTRACTORS SHALL COORDINATE THE LOCATIONS AND QUANTITIES OF ALL ACCESS PANELS DURING BIDDING PHASE. ACCESS PANELS WILL BE FURNISHED AND INSTALLED BY OTHERS.

(25.) PROVIDE CLEANOUTS IN ALL GRAVITY DRAINAGE PIPING SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, AT BASE OF STACKS AND AT 50 FOOT INTERVALS IN HORIZONTAL PIPING RUNS.

(26.) EXTEND ALL CLEANOUTS ON GRAVITY DRAINAGE PIPING SYSTEMS INSTALLED BELOW SLAB ON GRADE TO FINISHED FLOOR LEVEL.

(27.) ALL INTERIOR, HORIZONTAL SANITARY SEWER PIPING SYSTEMS, 4" AND LARGER, SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT, UNLESS NOTED OTHERWISE. ALL INTERIOR, HORIZONTAL SANITARY SEWER PIPING SYSTEMS, 3" AND SMALLER, SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT, UNLESS NOTED OTHERWISE.

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
WILLIAM ANDREW MINAHAN
ENGINEER
PE084434
PENNSYLVANIA

W W 6/17/2022

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1

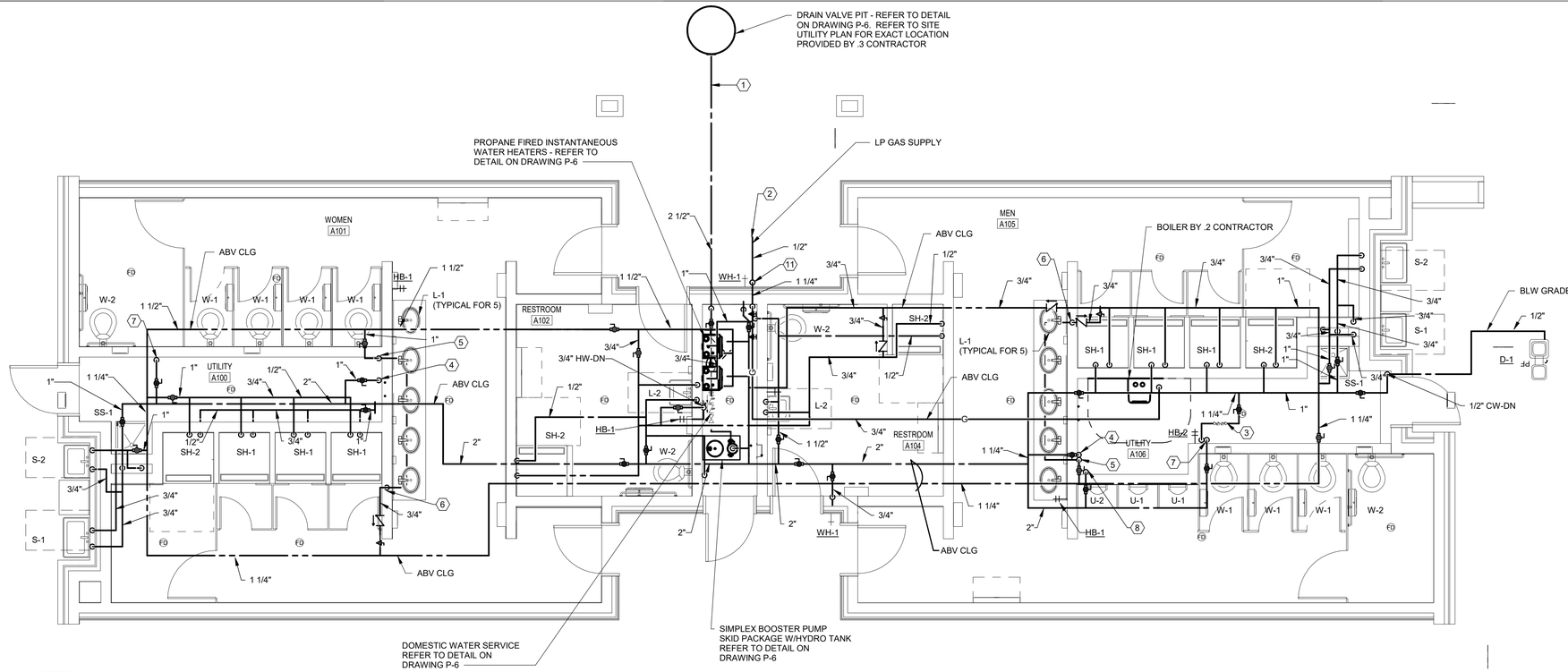
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
R POPCHAK	06/17/2022	P-1
CHECKED BY	SCALE	
W MINAHAN	AS NOTED	



1 LOOP-C - DOMESTIC WATER AND LP GAS - PLUMBING

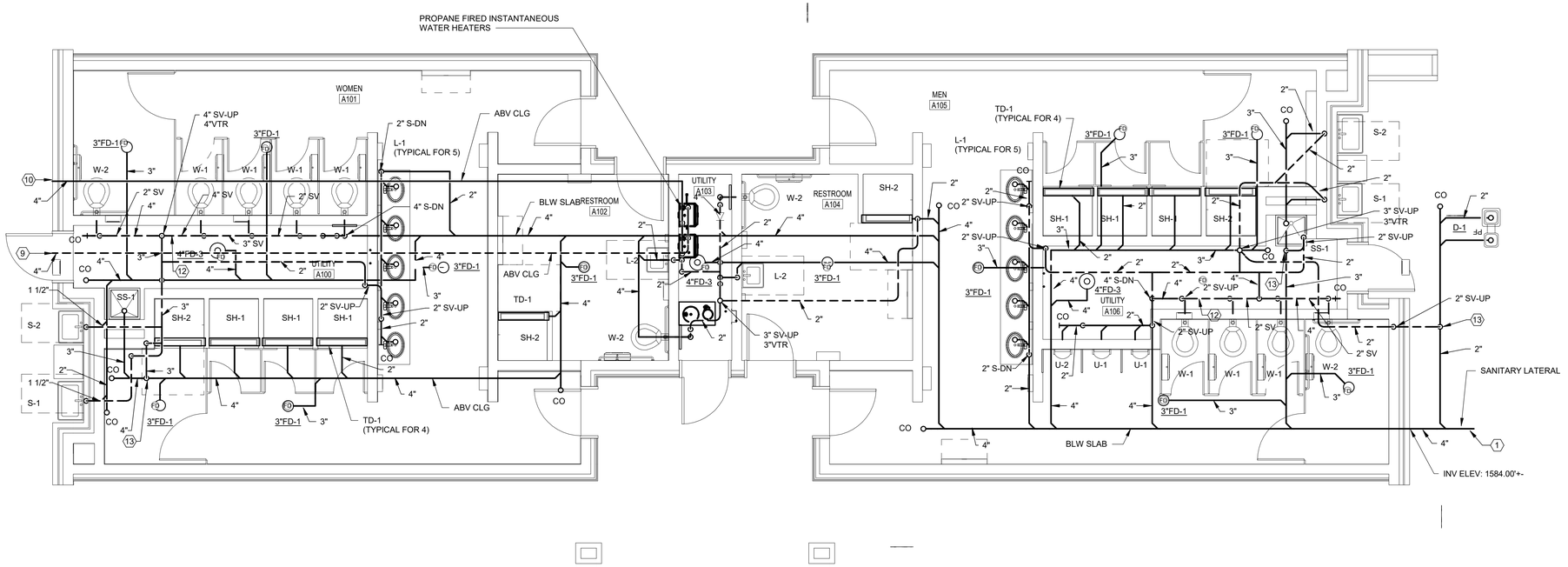
SCALE: 1/4" = 1'-0"

NOTES:

1. BUILDING TO BE DRAINED DOWN FOR WINTER. SLOPE ALL DOMESTIC WATER PIPING TOWARD FIXTURES AND DRAIN DOWN VALVE. PROVIDE HOSE END DRAIN VALVE AT LOW POINTS FOR WINTER DRAIN DOWN.

2. VALVES TO BE LOCATED IN OR NEAR CHASES. IF VALVES ARE NOT LOCATED IN CHASE, THEY SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO CHASE FOR ACCESS. LOCATIONS SHOW ARE FOR DIAGRAMATIC PURPOSES. VALVES THAT CANNOT BE LOCATED IN OR NEAR CHASE WILL REQUIRE MEANS OF ACCESS.

3. WATER PIPING TO BE ZONED. UNISEX RESTROOMS A102 & A104 AND UTILITY CHASE BETWEEN TO BE OPENED 365 DAYS. WOMENS A101 AND MENS A105 TO BE OPENED SEASONAL.



2 LOOP-C - SANITARY AND VENT - PLUMBING

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

PLUMBING KEYNOTES

1. FOR CONTINUATION OF PIPING - REFER TO SITE UTILITY PLAN
2. REFER TO SITE UTILITY PLAN FOR LP GAS STORAGE TANK LOCATION. ALL LP GAS PIPING, TANK AND ASSOCIATED EQUIPMENT BY .3 CONTRACTOR. REFER TO LP GAS STORAGE TANK DETAIL ON DRAWING P-6.
3. PROVIDE 3/4" MAKE-UP WATER WITH BALL VALVE, STRAINER AND RPZ BACKFLOW PREVENTER TO HB-2.
4. PROVIDE 1" COLD WATER PIPING DOWN IN CHASE. RUN 1" COLD WATER PIPING HEADER BELOW COUNTER ABOVE FLOOD RIM OF HIGHEST MOUNTED FIXTURE. PROVIDE 1/2" COLD WATER PIPING TO (L-1) LAVATORY.
5. PROVIDE 1" HOT WATER PIPING DOWN IN CHASE. RUN 1" HOT WATER PIPING HEADER BELOW COUNTER ABOVE FLOOD RIM OF HIGHEST MOUNTED FIXTURE. PROVIDE 1/2" HOT WATER PIPING TO (L-1) LAVATORY AND 3/4" HOT WATER PIPING TO (HB-1) HOSE BIBB. CONTINUE HEADER TO HOT WATER RETURN.
6. PROVIDE 3/4" HOT WATER RETURN UP IN WALL/CHASE.
7. PROVIDE 2" COLD WATER PIPING DOWN IN CHASE. RUN A 2" COLD WATER HEADER ABOVE THE FLOOD RIM OF HIGHEST MOUNTED FIXTURE. PROVIDE 1" COLD WATER TO (W-1 & W-2) WATER CLOSET. PROVIDE WATER HAMMER ARRESTER SIZE "C" ON HEADER.
8. PROVIDE 1 1/2" COLD WATER PIPING DOWN IN CHASE. RUN A 1 1/2" COLD WATER HEADER ABOVE THE FLOOD RIM OF HIGHEST MOUNTED FIXTURE. PROVIDE 3/4" COLD WATER TO (U-1 & U-2) URINAL. PROVIDE WATER HAMMER ARRESTER SIZE "B" ON HEADER.
9. DOMESTIC WATER HEATER EXHAUST. .3 CONTRACTOR TO COORDINATE LOCATION WITH .1 CONTRACTOR. REFER TO DOMESTIC WATER HEATER DETAIL ON DRAWING P-6.
10. DOMESTIC WATER HEATER INTAKE. .3 CONTRACTOR TO COORDINATE LOCATION WITH .1 CONTRACTOR. REFER TO DOMESTIC WATER HEATER DETAIL ON DRAWING P-6.
11. PROVIDE GAS COCK SHUT-OFF AND SECONDARY STAGE REGULATOR ALONG WALL IN VERTICAL. 11" W.C. OUTLET PRESSURE, 0.5 PSIG PRESSURE DROP. FOR MORE INFORMATION REFER TO SPECIFICATIONS.
12. PROVIDE VENT HEADER IN CHASE. RUN HEADER ABOVE FLOOD RIM OF THE HIGHEST MOUNTED FIXTURE.
13. PROVIDE TOP CONNECT VENT. PROVIDE VENT PIPING BELOW SLAB ON GRADE SLOPING VENT PIPING UPWARDS AT 1/8" PER FOOT TO WALL.

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER PE084434 PENNSYLVANIA

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

LOOP - C FLOOR PLAN - PLUMBING

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

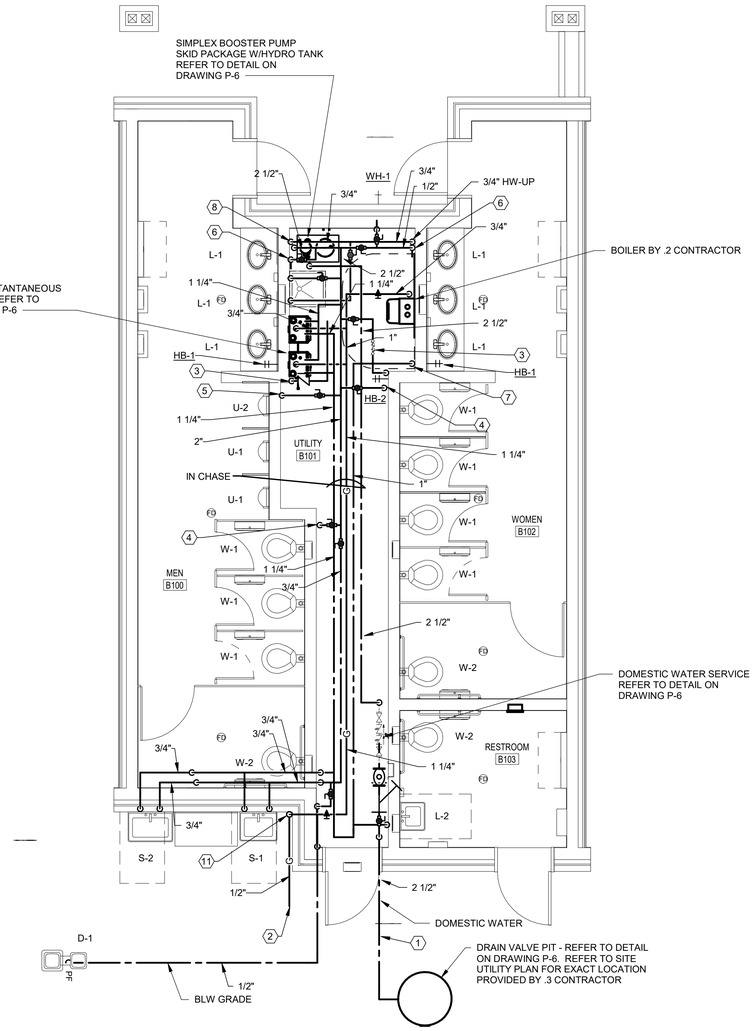
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	R POPCHAK	DATE	06/17/2022
CHECKED BY	W MINAHAN	SCALE	AS NOTED

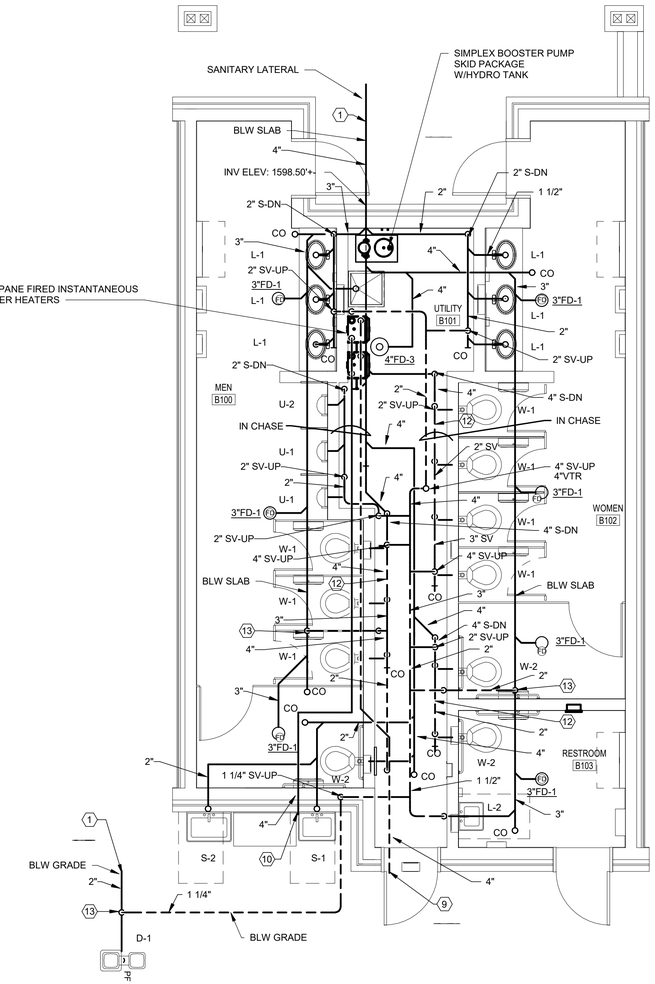
DRAWING No. P-2

NOTE:

BUILDING TO BE DRAINED DOWN FOR WINTER. SLOPE ALL DOMESTIC WATER PIPING TOWARD FIXTURES AND DRAIN DOWN VALVE. PROVIDE HOSE END DRAIN VALVE AT LOW POINTS FOR WINTER DRAIN DOWN.



1 OGTC - DOMESTIC WATER AND LP GAS - PLUMBING
SCALE: 1/4" = 1'-0"



2 OGTC - SANITARY AND VENT - PLUMBING
SCALE: 1/4" = 1'-0"

PLUMBING KEYNOTES

1. FOR CONTINUATION OF PIPING - REFER TO SITE UTILITY PLAN
2. REFER TO SITE UTILITY PLAN FOR LP GAS STORAGE TANK LOCATION. ALL LP GAS PIPING, TANK AND ASSOCIATED EQUIPMENT BY .3 CONTRACTOR. REFER TO LP GAS STORAGE TANK DETAIL ON DRAWING P-6.
3. PROVIDE 3/4" HOT WATER RETURN UP IN WALL/CHASE.
4. PROVIDE 2" COLD WATER PIPING DOWN IN CHASE. RUN A 2" COLD WATER HEADER ABOVE THE FLOOD RIM OF HIGHEST MOUNTED FIXTURE. PROVIDE 1" COLD WATER TO (W-1 & W-2) WATER CLOSET. PROVIDE WATER HAMMER ARRESTER SIZE "C" ON HEADER.
5. PROVIDE 1 1/2" COLD WATER PIPING DOWN IN CHASE. RUN A 1 1/2" COLD WATER HEADER ABOVE THE FLOOD RIM OF HIGHEST MOUNTED FIXTURE. PROVIDE 3/4" COLD WATER TO (U-1 & U-2) URINAL. PROVIDE WATER HAMMER ARRESTER SIZE "B" ON HEADER.
6. PROVIDE 1/2" COLD WATER PIPING DOWN IN CHASE. RUN 1/2" COLD WATER PIPING HEADER BELOW COUNTER ABOVE FLOOD RIM OF HIGHEST MOUNTED FIXTURE. PROVIDE 1/2" COLD WATER PIPING TO (L-1) LAVATORY.
7. PROVIDE 3/4" HOT WATER PIPING DOWN IN CHASE. RUN 3/4" HOT WATER PIPING HEADER BELOW COUNTER ABOVE FLOOD RIM OF HIGHEST MOUNTED FIXTURE. PROVIDE 1/2" HOT WATER PIPING TO (L-1) LAVATORY AND HOT WATER 3/4" TO (HB-1) HOSE BIBB.
8. PROVIDE 3/4" HOT WATER PIPING DOWN IN CHASE. RUN 3/4" HOT WATER PIPING HEADER BELOW COUNTER ABOVE FLOOD RIM OF HIGHEST MOUNTED FIXTURE. PROVIDE 1/2" HOT WATER PIPING TO (L-1) LAVATORY AND 3/4" TO (HB-1) HOSE BIBB. CONTINUE HEADER TO HOT WATER RETURN.
9. DOMESTIC WATER HEATER EXHAUST. .3 CONTRACTOR TO COORDINATE LOCATION WITH .1 CONTRACTOR. REFER TO DOMESTIC WATER HEATER DETAIL ON DRAWING P-6.
10. DOMESTIC WATER HEATER INTAKE. .3 CONTRACTOR TO COORDINATE LOCATION WITH .1 CONTRACTOR. REFER TO DOMESTIC WATER HEATER DETAIL ON DRAWING P-6.
11. PROVIDE GAS COCK SHUT-OFF AND SECONDARY STAGE REGULATOR ALONG WALL IN VERTICAL. 11" W.C. OUTLET PRESSURE, 0.5 PSIG PRESSURE DROP. FOR MORE INFORMATION REFER TO SPECIFICATIONS.
12. PROVIDE VENT HEADER IN CHASE. RUN HEADER ABOVE FLOOD RIM OF THE HIGHEST MOUNTED FIXTURE.
13. PROVIDE TOP CONNECT VENIT. PROVIDE VENT PIPING BELOW SLAB ON GRADE SLOPING VENT PIPING UPWARDS AT 1/8" PER FOOT TO WALL.

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER No. PE084434 PENNSYLVANIA

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ■ 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

OGTC FLOOR PLAN – PLUMBING

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
R POPCHAK	06/17/2022	P-3
CHECKED BY	SCALE	
W MINAHAN	AS NOTED	

ALL WORK ON THIS SHEET IS BASE BID #3

NOTE:

BUILDING TO BE DRAINED DOWN FOR WINTER. SLOPE ALL DOMESTIC WATER PIPING TOWARD FIXTURES AND DRAIN DOWN VALVE. PROVIDE HOSE END DRAIN VALVE AT LOW POINTS FOR WINTER DRAIN DOWN.

PLUMBING KEYNOTES

1 FOR CONTINUATION OF PIPING - REFER TO SITE UTILITY PLAN

2 REFER TO SITE UTILITY PLAN FOR LP GAS STORAGE TANK LOCATION. ALL LP GAS PIPING, TANK AND ASSOCIATED EQUIPMENT BY .3 CONTRACTOR. REFER TO LP GAS STORAGE TANK DETAIL ON DRAWING P-6.

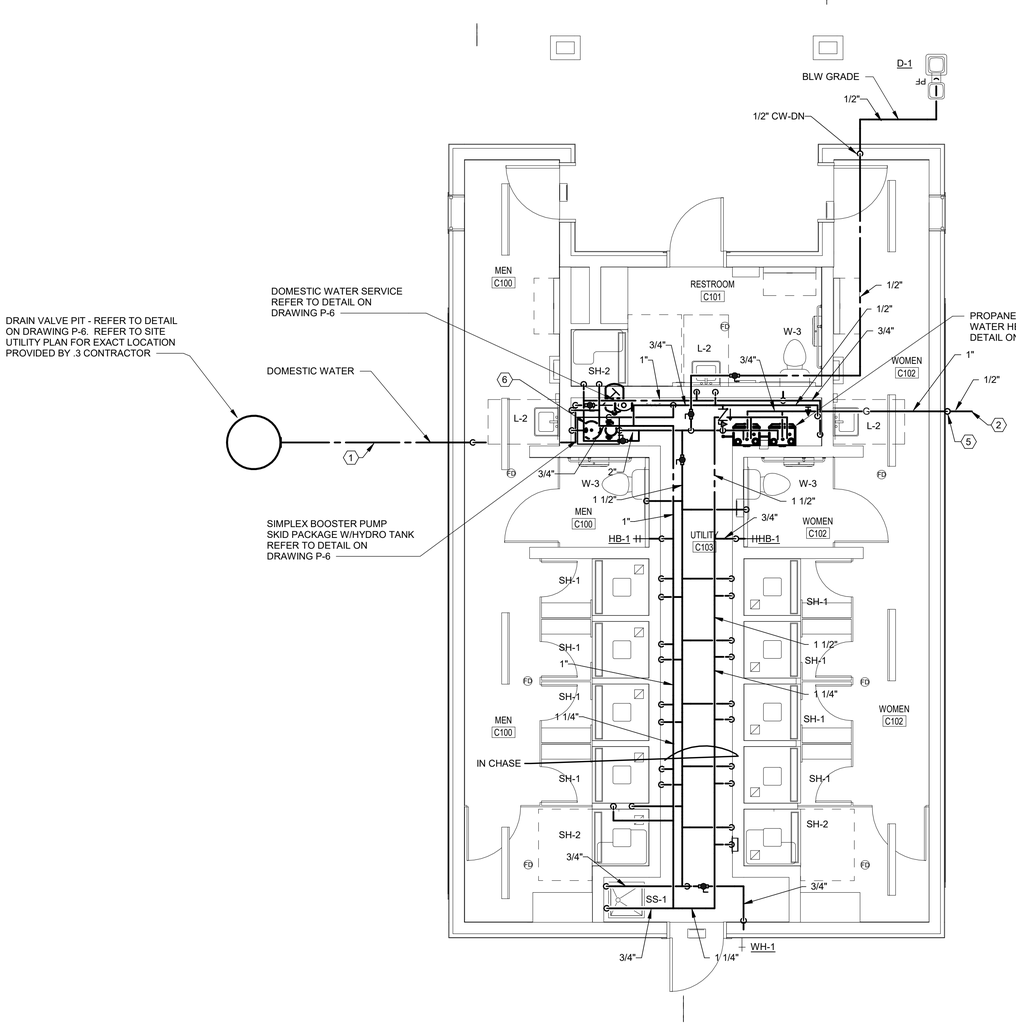
3 DOMESTIC WATER HEATER EXHAUST. .3 CONTRACTOR TO COORDINATE LOCATION WITH .1 CONTRACTOR. REFER TO DOMESTIC WATER HEATER DETAIL ON DRAWING P-6.

4 DOMESTIC WATER HEATER INTAKE. .3 CONTRACTOR TO COORDINATE LOCATION WITH .1 CONTRACTOR. REFER TO DOMESTIC WATER HEATER DETAIL ON DRAWING P-6.

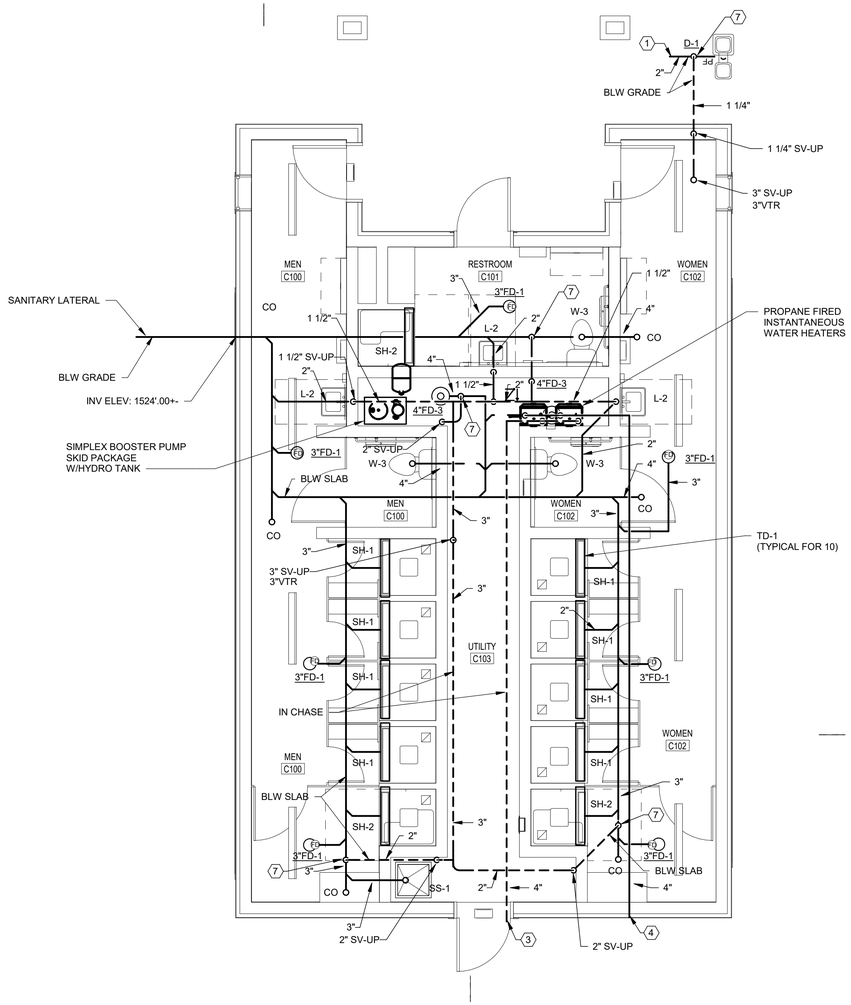
5 PROVIDE GAS COCK SHUT-OFF AND SECONDARY STAGE REGULATOR ALONG WALL IN VERTICAL. 11" W.C. OUTLET PRESSURE, 0.5 PSIG PRESSURE DROP. FOR MORE INFORMATION REFER TO SPECIFICATIONS.

6 DURING CONSTRUCTION A WATER FLOW TEST SHOULD BE PERFORMED TO DETERMINE IF A BOOSTER PUMP IS NEEDED, OR NEEDS TO BE REVISED.

7 PROVIDE TOP CONNECT VENT. PROVIDE VENT PIPING BELOW SLAB ON GRADE SLOPING VENT PIPING UPWARDS AT 1/8" PER FOOT TO WALL.



1 OGC - DADDY ALLEN - DOMESTIC WATER AND LP GAS - PLUMBING
SCALE: 1/4" = 1'-0"



2 OGC - DADDY ALLEN - SANITARY AND VENT - PLUMBING
SCALE: 1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER PE084434 PENNSYLVANIA

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

CAMP DADDY ALLEN FLOOR PLAN – PLUMBING

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1

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CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
R POPCHAK	06/17/2022	P-4
CHECKED BY	SCALE	
W MINAHAN	AS NOTED	

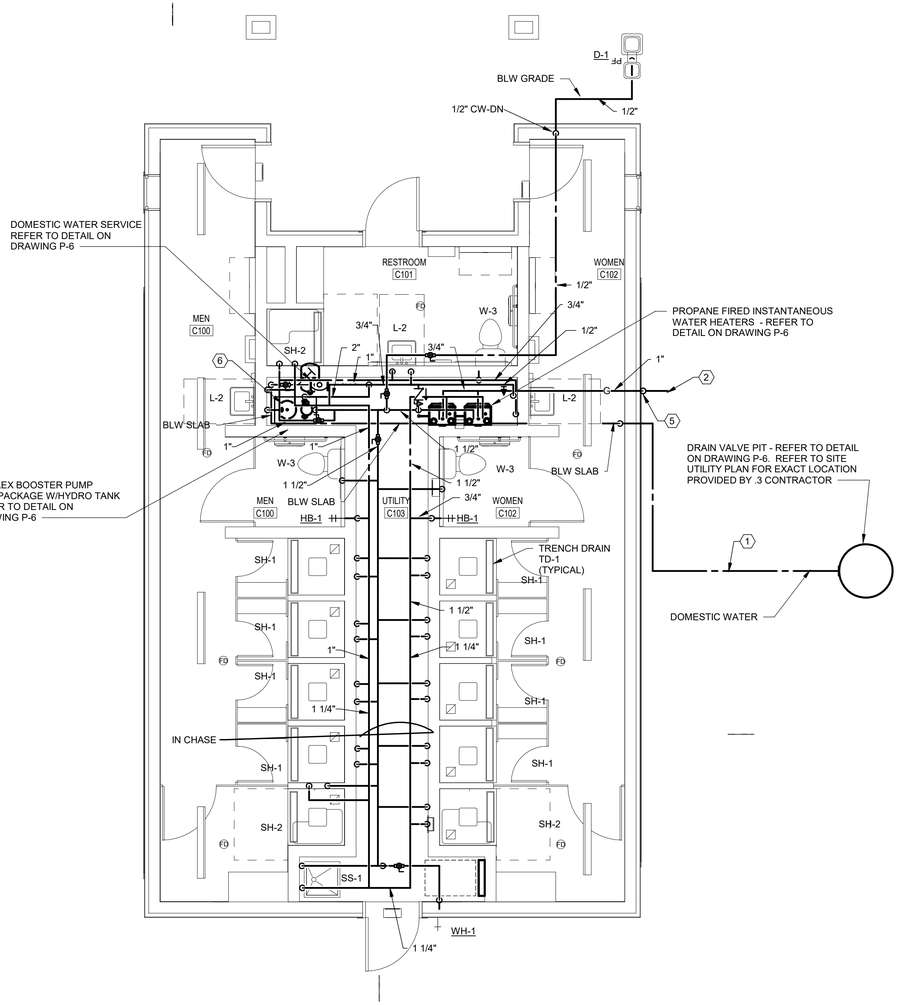
ALL WORK ON THIS SHEET IS BASE BID #2

PLUMBING KEYNOTES

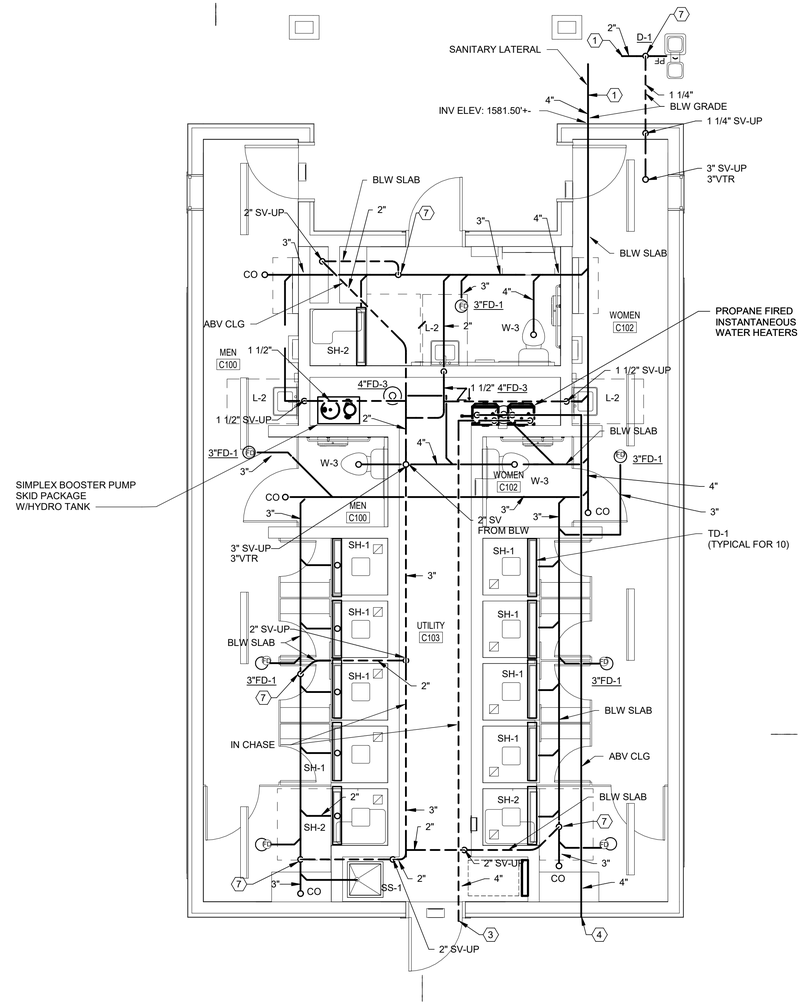
1. FOR CONTINUATION OF PIPING - REFER TO SITE UTILITY PLAN
2. REFER TO SITE UTILITY PLAN FOR LP GAS STORAGE TANK LOCATION. ALL LP GAS PIPING, TANK AND ASSOCIATED EQUIPMENT BY .3 CONTRACTOR. REFER TO LP GAS STORAGE TANK DETAIL ON DRAWING P-6.
3. DOMESTIC WATER HEATER EXHAUST. .3 CONTRACTOR TO COORDINATE LOCATION WITH .1 CONTRACTOR. REFER TO DOMESTIC WATER HEATER DETAIL ON DRAWING P-6.
4. DOMESTIC WATER HEATER INTAKE. .3 CONTRACTOR TO COORDINATE LOCATION WITH .1 CONTRACTOR. REFER TO DOMESTIC WATER HEATER DETAIL ON DRAWING P-6.
5. PROVIDE GAS COCK SHUT-OFF AND SECONDARY STAGE REGULATOR ALONG WALL IN VERTICAL. 11" W.C. OUTLET PRESSURE, 0.5 PSIG PRESSURE DROP. FOR MORE INFORMATION REFER TO SPECIFICATIONS.
6. DURING CONSTRUCTION A WATER FLOW TEST SHOULD BE PERFORMED TO DETERMINE IF A BOOSTER PUMP IS NEEDED, OR NEEDS TO BE REVISED.
7. PROVIDE TOP CONNECT VENT. PROVIDE VENT PIPING BELOW SLAB ON GRADE SLOPING VENT PIPING UPWARDS AT 1/8" PER FOOT TO WALL.

NOTE:

BUILDING TO BE DRAINED DOWN FOR WINTER. SLOPE ALL DOMESTIC WATER PIPING TOWARD FIXTURES AND DRAIN DOWN VALVE. PROVIDE HOSE END DRAIN VALVE AT LOW POINTS FOR WINTER DRAIN DOWN.



1 OGC - SHEHAQUA - DOMESTIC WATER AND LP GAS - PLUMBING
SCALE: 1/4" = 1'-0"



2 OGC - SHEHAQUA - SANITARY AND VENT - PLUMBING
SCALE: 1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER No. PE084434

SIGNATURE DATE

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COMMONWEALTH OF PENNSYLVANIA
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HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

CAMP SHEHAQUA FLOOR PLAN – PLUMBING

VERIFY SCALE

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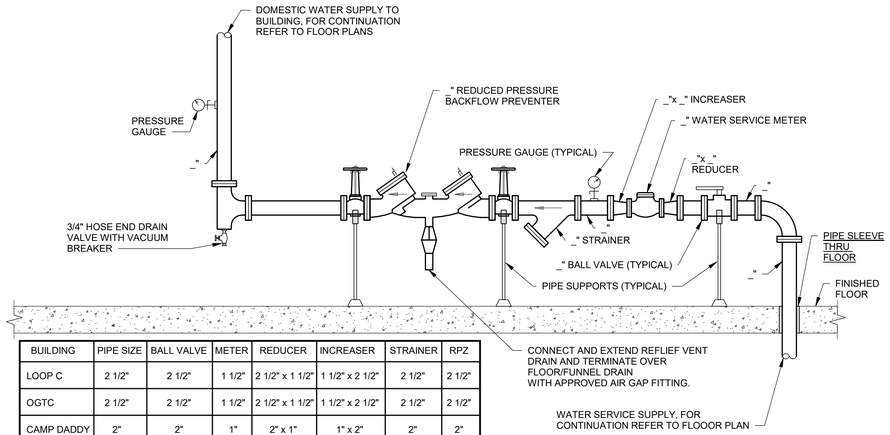
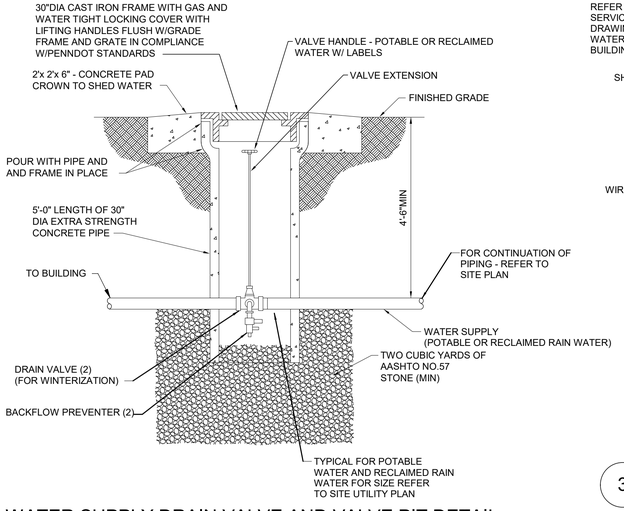
DRAWN BY	DATE	DRAWING No.
R POPCHAK	06/17/2022	P-5
CHECKED BY	SCALE	
W MINAHAN	AS NOTED	

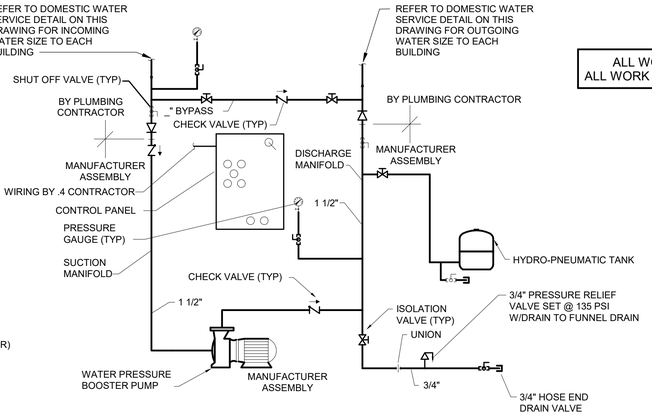


BUILDING	PIPE SIZE	BALL VALVE	METER	REDUCER	INCREASER	STRAINER	RPZ
LOOP C	2 1/2"	2 1/2"	1 1/2"	2 1/2" x 1 1/2"	1 1/2" x 2 1/2"	2 1/2"	2 1/2"
OGTC	2 1/2"	2 1/2"	1 1/2"	2 1/2" x 1 1/2"	1 1/2" x 2 1/2"	2 1/2"	2 1/2"
CAMP DADDY	2"	2"	1"	2" x 1"	1" x 2"	2"	2"
SHEHAQUA	2"	2"	1"	2" x 1"	1" x 2"	2"	2"

1 TYPICAL DOMESTIC WATER SERVICE DIAGRAM
SCALE: 1/8" = 1'-0"



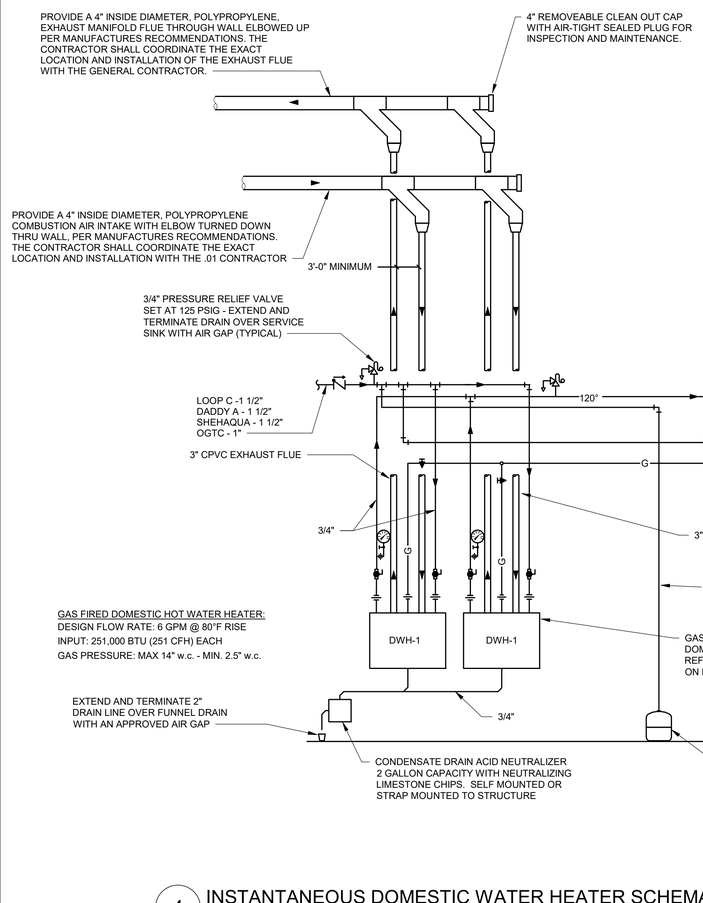
2 WATER SUPPLY DRAIN VALVE AND VALVE PIT DETAIL
SCALE: 1/8" = 1'-0"



* BOOSTER PUMP PACKAGE - REFER TO SPECIFICATIONS

3 SIMPLEX DOMESTIC WATER BOOSTER PUMP SCHEMATIC DETAIL
SCALE: 1/8" = 1'-0"

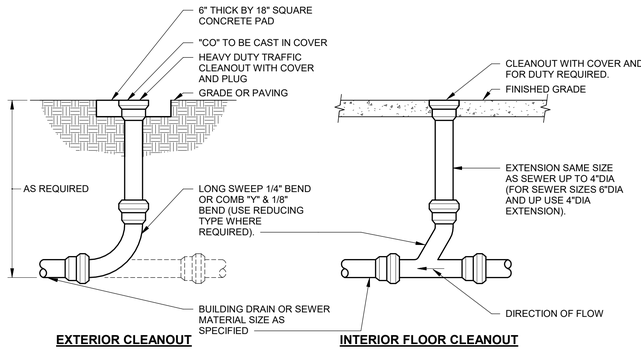
ALL WORK ASSOCIATED WITH SHEHAQUA IS BASE BID #2
ALL WORK ASSOCIATED WITH CAMP DADDY ALLEN IS BASE BID #3



GAS FIRED DOMESTIC HOT WATER HEATER:
DESIGN FLOW RATE: 6 GPM @ 80°F RISE
INPUT: 251,000 BTU (251 CFH) EACH
GAS PRESSURE: MAX 14" w.c. - MIN. 2.5" w.c.

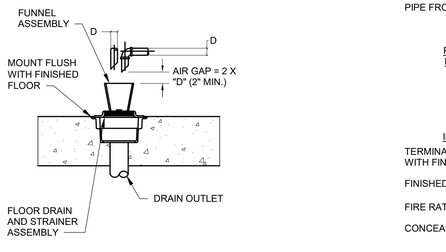
NOTE:
REFER TO MANUFACTURES INSTALLATION RECOMMENDATIONS.

4 INSTANTANEOUS DOMESTIC WATER HEATER SCHEMATIC (WALL)
SCALE: 1/8" = 1'-0"



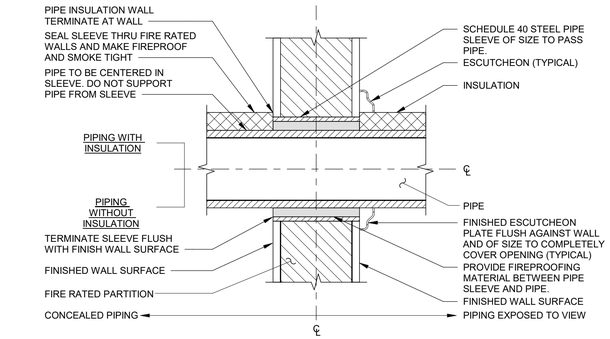
NOTE:
FOR MATERIAL TYPE SEE SPECIFICATIONS.

5 DETAIL OF CLEANOUTS
SCALE: 1/8" = 1'-0"

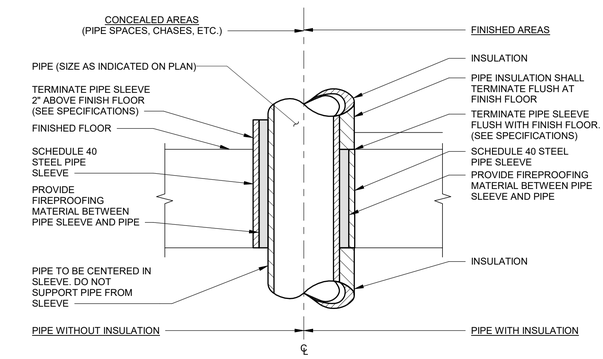


FLOOR DRAIN

6 FLOOR DRAIN DETAIL
SCALE: 1/8" = 1'-0"



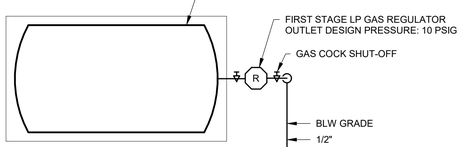
7 PIPE SLEEVE THRU WALL DETAIL
SCALE: 1/8" = 1'-0"



8 PIPE SLEEVE THRU FLOOR DETAIL
SCALE: 1/8" = 1'-0"

BUILDING	STORAGE TANK SIZE	TOTAL CONNECTED LOAD
LOOP C	1000 GALLON	701,000 BTU
OGTC	1000 GALLON	642,000 BTU
CAMP DADDY	500 GALLON	502,000 BTU
SHEHAQUA	500 GALLON	502,000 BTU

NOTE:
FENCING, BOLLARDS, PAD, ETC. BY .1 CONTRACTOR



FOR MORE INFORMATION REFER TO SPECIFICATIONS

9 LP GAS STORAGE TANK SCHEMATIC DETAIL
SCALE: 1/8" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER WILLIAM ANDREW MINAHAN PE082434

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

DETAILS - PLUMBING

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE
R POPCHAK	06/17/2022
CHECKED BY	SCALE
W MINAHAN	AS NOTED

DRAWING No.
P-6
134 OF 144

WATER CLOSETS AND URINALS

FIXTURE IDENTIFICATION	DESCRIPTION	MOUNTING REQUIREMENTS	FIXTURE MANUFACTURER AND MODEL NUMBER (OR APPROVED EQUAL)	FIXTURE ACCESSORIES MAKE AND MODEL NUMBER (OR APPROVED EQUAL)	FOOTNOTES AND REMARKS
W-1	WATER CLOSET 1.28 GALLON PER FLUSH	WALL MTD STD HT	ZURN 5615	ZURN ELECTRIC SENSOR FLUSH VALVE ZEMS6000PL-IS	1, 4, 5
W-2	WATER CLOSET 1.28 GALLON PER FLUSH	WALL MTD ADA HT	ZURN 5615	ZURN ELECTRIC SENSOR FLUSH VALVE ZEMS6000PL-IS	1, 4, 5
W-3	WATER CLOSET TANK TYPE 1.28 GALLON PER FLUSH	FLR MTD ADA HT	AMERICAN STANDARD CHAMPION PRO 3195A.101	--- --- ---	1, 2, 4
U-1	URINAL 0.125 GALLON PER FLUSH	WALL MTD STD HT	ZURN Z5755-U	ZURN ELECTRIC SENSOR FLUSH VALVE ZEMS6003-AV-IS-W1	1, 3
U-2	URINAL 0.125 GALLON PER FLUSH	WALL MTD ADA HT	ZURN Z5755-U	ZURN ELECTRIC SENSOR FLUSH VALVE ZEMS6003-AV-IS-W1	1, 3

WATER CLOSETS AND URINAL FOOTNOTES:

1. REFER TO SPECIFICATIONS FOR REQUIREMENTS OF MATERIALS, COLOR, FINISHES, INSTALLATION, APPROVED EQUAL MANUFACTURERS, ETC..
2. PROVIDE COMPLETE WITH SEAT, SUPPLY ROUGH-IN AND WASTE ROUGH-IN ASSEMBLIES IN ACCORDANCE WITH SPECIFICATIONS.
3. PROVIDE COMPLETE WITH CARRIER AND WASTE ROUGH-IN ASSEMBLIES IN ACCORDANCE WITH SPECIFICATIONS.
4. PROVIDE OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGE AND ANTI-MICROBIAL AGENT. SEAT SHALL BE "KOHLER MODEL NUMBER K-4670-SA" OR APPROVED EQUAL.
5. PROVIDE COMPLETE WITH SEAT, CARRIER, SUPPLY ROUGH-IN AND WASTE ROUGH-IN ASSEMBLIES IN ACCORDANCE WITH SPECIFICATIONS.

LAVATORIES AND SINKS

FIXTURE IDENTIFICATION	DESCRIPTION	MOUNTING REQUIREMENTS	FIXTURE MANUFACTURER AND MODEL NUMBER (OR APPROVED EQUAL)	FIXTURE ACCESSORIES MAKE AND MODEL NUMBER (OR APPROVED EQUAL)	FOOTNOTES AND REMARKS
L-1	LAVATORY 20"x 17" VITREOUS CHINA	COUNTER UNDERMOUNTED ADA ACCESSIBLE	ZURN Z5220	ZURN ELECTRIC SENSOR FAUCET Z6915-XL-CWB-FS	1, 2, 3, 4, 5, 8
L-2	LAVATORY 19"x 17" VITREOUS CHINA	WALL MOUNTED ADA ACCESSIBLE	ZURN Z5350	ZURN ELECTRIC SENSOR FAUCET Z6915-XL-CWB-FS	1, 2, 3, 4, 8
S-1	SERVICE SINK 14 GAUGE STAINLESS STEEL OVERALL DIM. 21"x 17 1/2"x 12"	WALL MOUNTED STD ACCESSIBLE	JUST MANUFACTURING CO (2 HOLE) JS-122	ZURN 8" CENTERSET FAUCET Z843G4-CS-HCT-4F	1, 2, 8
S-2	SINK, SINGLE BOWL 18 GAUGE STAINLESS STEEL OVERALL DIM. 18"x 14 1/2"x 11"	WALL MOUNTED ADA ACCESSIBLE	JUST MANUFACTURING CO (2 HOLE) J-ADA-3020	ZURN 8" CENTERSET FAUCET Z843G4-CS-HCT-4F	1, 2, 3, 8
SS-1	MOP BASIN 24" x 24" x 10"	FLOOR MOUNTED	ZURN Z1996-24	ZURN SERVICE SINK FAUCET Z843M1-FC-WHK-CS-5H	1, 2, 6, 7

LAVATORIES AND SINK FOOTNOTES:

1. REFER TO SPECIFICATIONS FOR REQUIREMENTS OF MATERIALS, COLOR, FINISHES, INSTALLATION, APPROVED EQUAL MANUFACTURERS, ETC..
2. PROVIDE COMPLETE WITH SUPPLY AND WASTE ROUGH-IN ASSEMBLIES IN ACCORDANCE WITH SPECIFICATIONS.
3. PROVIDE SUPPLY AND DRAIN INSULATION KIT FOR ALL ADA MOUNTED FIXTURES. FOR INFORMATION ON INSULATION KIT REFER TO PROJECT SPECIFICATIONS. COORDINATE ADA MOUNTED FIXTURE WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR.
4. PROVIDE 0.5 GPM VANDAL RESISTANT SPRAY HEAD.
5. COORDINATE SIZE AND INSTALLATION OF COUNTER MOUNT TYPE LAVATORY WITH GENERAL CONTRACTOR.
6. PROVIDE COMPLETE WITH HOSE AND HOSE BRACKET.
7. PROVIDE COMPLETE WITH MOP HANGER.
8. PROVIDE A POINT OF USE THERMOSTATIC MIXING VALVE ON THE HOT WATER SUPPLY TO THE SINK. INSTALL THE THERMOSTATIC MIXING VALVE BELOW THE SINK. SET OUTLET TEMPERATURE AT 110°F. THERMOSTATIC MIXING VALVE SHALL BE "LEONARD MODEL NUMBER 270-LF" OR APPROVED EQUAL.

FLOOR DRAIN SCHEDULE

FIXTURE IDENTIFICATION	APPLICATION AND LOCATION	DESCRIPTION	FIXTURE MANUFACTURER AND MODEL NUMBER (OR APPROVED EQUAL)	FOOTNOTES AND REMARKS
FD-1	TOILET / SHOWER FACILITIES GENERAL FINISHED AREAS	COATED CAST IRON BODY WITH ADJUSTABLE POLISHED NICKEL- BRONZE 6" STRAINER TOP W/ SEDIMENT BUCKET AND CLAMPING COLLAR	ZURN MODEL #ZN-415-6B-Y-TP or #ZN-415-6S-Y-TP W/ TYPE 'B' ROUND OR TYPE 'S' SQUARE STRAINER TOP JR SMITH #2005LANB-B	1, 2, 3, 4
FD-2	MECHANICAL EQUIPMENT ROOM AREAS (FLOOR DRAIN W/ FUNNEL) SLAB ON GRADE	MEDIUM DUTY COATED CAST IRON BODY WITH 9" DIAMETER FLAT SLOTTED GRATE TOP AND FRAME, REMOVABLE SEDIMENT BUCKET AND 4" ROUND FUNNEL CONVERTING ASSEMBLY	ZURN MODEL #Z551-Y-TP W/ Z-328-4 JR SMITH # 2270-B, 3580	1, 2, 3
FD-3	MECHANICAL EQUIPMENT ROOM AREAS SLAB ON GRADE	MEDIUM DUTY COATED CAST IRON BODY WITH 9"DIAMETER FLAT SLOTTED GRATE TOP AND REMOVABLE SEDIMENT BUCKET	ZURN MODEL #Z-551-Y-TP JR SMITH #2270-B	1, 2, 3

FLOOR DRAIN FOOTNOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, MATERIALS, COLOR, FINISHES, INSTALLATION AND APPROVED EQUAL MANUFACTURERES.
2. PROVIDE COMPLETE WITH INDIVIDUAL FIXTURE TRAP FOR ALL FLOOR DRAINS UNLESS OTHERWISE INDICATED.
3. PROVIDE TRAP SEAL PROTECTION INSERT; PRO-SET "TRAP GUARD" SERIES TG, SURE SEAL "INLINE FLOOR DRAIN TRAP SEAL INSERT" OF TYPE COMPATIBLE WITH SCHEDULED AND SPECIFIED DRAINS. FURNISH WITH ALL DRAINS UNLESS NOTED OR INDICATED OTHERWISE.
4. THE .3 CONTRACTOR SHALL DETERMINE AND COORDINATE THE DESIGNATED LOCATIONS OF THE SCHEDULED FLOOR DRAIN AND FINISH FLOOR PRIOR TO ROUGHING IN AND INSTALLING FLOOR DRAINS. THE CONTRACTOR SHALL FURNISH AND INSTALL SQUARE FLOOR DRAIN FRAME AND STRAINER TOP IN ALL AREAS WHERE FLOOR DRAINS ARE DESIGNATED TO BE INSTALLED IN TILE FLOORS. REFER TO ARCHITECTURAL DRAWING FINISH SCHEDULES FOR ADDITIONAL INFORMATION.

DRINKING FOUNTAIN/BOTTLE FILLING STATION

FIXTURE IDENTIFICATION	DESCRIPTION	MOUNTING REQUIREMENTS	FIXTURE MANUFACTURER AND MODEL NUMBER (OR APPROVED EQUAL)	FIXTURE ACCESSORIES MAKE AND MODEL NUMBER (OR APPROVED EQUAL)	FOOTNOTES AND REMARKS
D-1	DRINKING FOUNTAIN BOTTLE FILLER PEDESTAL SPLIT-LEVEL	FLR MTD STD AND ADA ACCESSIBLE	MOST DEPENDABLE FOUNTAINS, INC 10145 SMFA	--- --- ---	1, 2, 3

WATER COOLER FOOTNOTES:

1. REFER TO SPECIFICATIONS FOR REQUIREMENTS OF MATERIALS, COLOR, FINISHES, INSTALLATION, APPROVED EQUAL MANUFACTURERS, ETC..
2. PROVIDE COMPLETE WITH SUPPLY AND WASTE ROUGH-INS, IN-LINE REPLACEABLE WATER FILTER ASSEMBLY AND CARRIER MOUNTING ASSEMBLIES IN ACCORDANCE WITH SPECIFICATIONS.
3. THE .3 CONTRACTOR SHALL ENSURE THAT THE INSTALLATION MEETS OR EXCEEDS ALL ADA HANDICAP ACCESSIBILITY AND CLEARANCE REQUIREMENTS.

SHOWERS

FIXTURE IDENTIFICATION	DESCRIPTION	MOUNTING REQUIREMENTS	FIXTURE MANUFACTURER AND MODEL NUMBER (OR APPROVED EQUAL)	FIXTURE ACCESSORIES MAKE AND MODEL NUMBER (OR APPROVED EQUAL)	FOOTNOTES AND REMARKS
SH-1	SHOWER	STANDARD	BUILT-UP BY G.C.	ZURN TEMP PRESSURE BALANCING UNIT Z7500-HW-TC-16	1, 2, 3
SH-2	SHOWER	ADA ACCESSIBLE	BUILT-UP BY G.C.	ZURN TEMP PRESSURE BALANCING UNIT Z7500-HW-TC-16	1, 2, 3

SHOWER AND WHIRLPOOL TUB FOOTNOTES:

1. REFER TO SPECIFICATIONS FOR REQUIREMENTS OF MATERIALS, COLOR, FINISHES, INSTALLATION, APPROVED EQUAL MANUFACTURERS, ETC..
2. PROVIDE COMPLETE WITH SUPPLY AND WASTE ROUGH-IN ASSEMBLIES IN ACCORDANCE WITH SPECIFICATIONS.
3. PROVIDE COMPLETE WITH ZURN TRENCH SHOWER DRAIN ZS880 OR APPROVED EQUAL.

WALL HYDRANTS AND HOSE BIBBS SCHEDULE

FIXTURE IDENTIFICATION	DESCRIPTION	MOUNTING REQUIREMENTS	FIXTURE MANUFACTURER AND MODEL NUMBER (OR APPROVED EQUAL)	FIXTURE ACCESSORIES MAKE AND MODEL NUMBER (OR APPROVED EQUAL)	FOOTNOTES AND REMARKS
WH-1	EXTERIOR WALL HYDRANT BUILDING PERIMETER WALL BOX AND COVER	24" ABOVE FINISH GRADE WALL MOUNTED	NON-FREEZE, ANTI-SIPHON WITH BACKFLOW PREVENTION AND ALL BRONZE PARTS ZURN MODEL #Z-1320	REMOVABLE KEY FOR LOCKING COVER AND HYDRANT OPERATION WITH "WATER" STAMPED IN COVER	1, 2
HB-1	HOSE BIBB TOILET ROOMS	24" ABOVE FINISH FLOOR WALL MOUNTED	CHROME PLATED LOOSE KEY HANDLE HOSE END OUTLET CHICAGO FAUCET MODEL # 293	------	3
HB-2	HOSE BIBB GENERAL BUILDING AND MECHANICAL AREAS	42" ABOVE FINISH FLOOR WALL MOUNTED	CHROME PLATED LEVER HANDLE HOSE END OUTLET ZURN MODEL # Z-80701-RB-VB	------	3

WALL HYDRANTS AND HOSE BIBB SCHEDULE FOOTNOTES:

1. REFER TO SPECIFICATIONS FOR REQUIREMENTS OF MATERIALS, COLOR, FINISHES, INSTALLATION, APPROVED EQUAL MANUFACTURERS, ETC..
2. INSTALL WALL HYDRANT WALL BOX AND COVER FLUSH WITH EXTERIOR WALL FINISH. THE DEPTH OF THE VALVE STEM SHALL BE COORDINATED WITH THE THICKNESS OF THE EXTERIOR WALL AND THE DEPTH TO VALVE STOP WITHIN THE INTERIOR SPACE BEYOND THE INSULATION ENVELOPE. EXTEND 3/4" COLD WATER SUPPLY WITH ISOLATION SHUT-OFF VALVE TO THE WALL HYDRANT.
3. EXTEND 1/2" OR 3/4" WATER SUPPLY CONCEALED OR EXPOSED PIPING TO THE HOSE BIBB AS NOTED ON DRAWING.

PLUMBING FIXTURE CONNECTION SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	TRAP	DRAIN	VENT	MOUNTING	RIM HEIGHT	FOOTNOTES AND REMARKS
W-1	WATER CLOSET	1/2"	---	---	4"	AS NOTED	FLOOR	REFER TO ARCHTECTURAL DRAWINGS	
W-2	WATER CLOSET	1/2"	---	---	4"	AS NOTED	FLOOR	REFER TO ARCHTECTURAL DRAWINGS	
U-1	URINAL	---	---	2"	2"	2"	WALL	REFER TO ARCHTECTURAL DRAWINGS	
U-2	URINAL	---	---	2"	2"	2"	WALL	REFER TO ARCHTECTURAL DRAWINGS	
L-1	LAVATORY	1/2"	1/2"	1 1/2"	2"	1 1/2"	COUNTER	REFER TO ARCHTECTURAL DRAWINGS	
L-2	LAVATORY	1/2"	1/2"	1 1/2"	2"	1 1/2"	WALL	REFER TO ARCHTECTURAL DRAWINGS	
SH-1	SHOWER	1/2"	1/2"	2"	2"	AS NOTED	FLOOR	REFER TO ARCHTECTURAL DRAWINGS	
SH-2	SHOWER	1/2"	1/2"	2"	2"	AS NOTED	FLOOR	REFER TO ARCHTECTURAL DRAWINGS	
S-1	SINK	1/2"	1/2"	3"	3"	2"	FLOOR	REFER TO ARCHTECTURAL DRAWINGS	
S-2	SINK	1/2"	1/2"	1 1/2"	2"	2"	FLOOR	REFER TO ARCHTECTURAL DRAWINGS	
SS-1	SERVICE SINK	3/4"	3/4"	3"	3"	2"	FLOOR		
LT-1	LAUNDRY SINK	1/2"	1/2"	2"	2"	2"	FLOOR		
D-1	ELECTRIC WATER COOLER	1/2"	---	1 1/4"	1 1/2"	1 1/4"	WALL	REFER TO ARCHTECTURAL DRAWINGS	
3"FD-1	FLOOR DRAIN	---	---	3"	3"	AS NOTED	FLOOR	---	
4"FD-1	FLOOR DRAIN	---	---	4"	4"	AS NOTED	FLOOR	---	
HB-1	HOSE BIBB	3/4"	---	---	---	---	WALL	---	
HB-2	HOSE BIBB	---	3/4"	---	---	---	WALL	---	
WH-1	WALL HYDRANT	3/4"	---	---	---	---	WALL	---	

FOOTNOTES AND REMARKS

* MINIMUM WASTE PIPING 2" BELOW SLAB

ALL WORK ASSOCIATED WITH SHEHAQUA IS BASE BID #2
ALL WORK ASSOCIATED WITH CAMP DADDY ALLEN IS BASE BID #3

PLUMBING FIXTURE ABBREVIATIONS

W	WATER CLOSET
U	URINAL
L	LAVATORY
S	SINK
SS	SERVICE RECEPTOR
SH	SHOWER
D	WATER COOLER
FD	FLOOR DRAIN
RD	ROOF DRAIN
HB	HOSE BIBB

NOTE: 1. SUFFIXES FOR FIXTURE LETTERS AS SPECIFIED.
2. REFER TO PROJECT SPECIFICATIONS FOR PLUMBING ACCESSORIES, SPECIALTIES AND EQUIPMENT.

HOT WATER RETURN RECIRCULATING PUMP SCHEDULE

CIRC PUMP NUMBER	LOCATION	PIPE SIZE	GPM	FT/HD	HP	RPM	ELECTRIC	REMARKS
CP-1	UTILITY ROOM	3/4"	1	0.5	1/40	3250	1-60-120V	-

GAS FIRED DOMESTIC WATER HEATER SCHEDULE

WATER HEATER NUMBER	LOCATION	FUEL TYPE	EXHAUST FLUE SIZE	INTAKE FLUE SIZE	BURNER INPUT BTU HR	WATER TEMP DEG F		RECOVERY GPH	REMARKS
						IN	OUT		
DWH-1	MECH SPACE	LP GAS	3"	3"	251,000	40	120	---	SET OUTLET TEMPERATURE AT 120°

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
WILLIAM ANDREW MINAHAN
ENGINEER
PE084434
6/17/2022

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 ■■■■■■■■ 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

PLUMBING SCHEDULES

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
R POPCHAK	06/17/2022	P-7
CHECKED BY	SCALE	
W MINAHAN	AS NOTED	

POWER LEGEND

SYMBOL	DESCRIPTION
CB	ENCLOSED CIRCUIT BREAKER
	FINAL CONNECTION BY EC TO EQUIPMENT
HD	HAND DRYER, 48" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE
FV	AUTOMATIC FLUSH VALVE
	COMBINATION DISCONNECT SWITCH AND STARTER
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	ELECTRIC THERMOSTAT BY OTHERS UNLESS NOTED OTHERWISE AND WIRED BY EC
M	MOTOR
M CUH	CABINET UNIT HEATER
M FCU	FAN COIL UNIT
M HUH	HORIZONTAL UNIT HEATER
M MOD	MOTOR OPERATED DAMPER
J	JUNCTION BOX

RECEPTACLES LEGEND

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
2	DOUBLE DUPLEX RECEPTACLE
AB	DUPLEX RECEPTACLE - ABOVE COUNTER
AB GFI	DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE ABOVE COUNTER
GFI	DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE
WC GFI	WATER COOLER - DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE
WP	DUPLEX WEATHERPROOF RECEPTACLE
	QUADRAPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE

ELECTRICAL LEGEND (Misc.)

SYMBOL	DESCRIPTION
	ELECTRICAL PANEL BOARD - SURFACE MOUNTED
1	INDICATES NOTES ELSEWHERE
∅	PHASE
	SWITCH LEG
	BRANCH CIRCUIT
	SWITCHED CIRCUIT
	HOMERUN TO PANEL BOARD - 3 #12-3/4"C UNO
	CROSS HATCHING INDICATES EQUIPMENT AND/OR WIRING TO BE RENDERED DEAD AND REMOVED BY EC
	BUSBAR ASSEMBLY

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	TYPICAL FLUORESCENT PENDANT MOUNTED FIXTURE
	TYPICAL FLUORESCENT SURFACE MOUNTED FIXTURE
	TYPICAL FLUORESCENT WALL MOUNTED FIXTURE
	DOUBLE FACE EXIT SIGN
	SINGLE FACE EXIT SIGN
	DUAL HEAD EMERGENCY LIGHT
	DOUBLE SPOT LIGHT
	RECESSED MOUNTED DOWN LIGHT TYPE FIXTURE
	FAN LIGHT
	FLOOD LIGHT FIXTURE
	HID LIGHT FIXTURE - POST MOUNTED
	HID LIGHT FIXTURE - CEILING MOUNTED
	HID LIGHT FIXTURE - WALL MOUNTED
	POST TYPE FIXTURE
	SCONCE TYPE FIXTURE
	SINGLE SPOT LIGHT
	SINGLE SPOT LIGHT
	SURFACE MOUNTED DOWN LIGHT TYPE FIXTURE
	TRACK LIGHTING FIXTURE
	BRACKET OR SCONCE TYPE FIXTURE
	DOWN LIGHT WALL WASH TYPE FIXTURE

LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
TC	TIME CLOCK
D	DAYLIGHT SENSOR
OS	CEILING MOUNTED OCCUPANCY SENSOR
P	PHOTO CELL
PP	POWER PACK

ABBREVIATIONS

1P	SINGLE POLE
1PH	SINGLE - PHASE
2/C	TWO - CONDUCTOR
3/C	THREE - CONDUCTOR
3PH	THREE - PHASE
4/C	FOUR CONDUCTOR
4W	FOUR - WIRE
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AB	ABOVE
AC	ALTERNATING CURRENT or ARMORED CABLE
ACC	ACCESSIBLE
ACCU	AIR COOLED CONDENSING UNIT
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
ADO	AUTOMATIC DOOR OPENER
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
AMB or A	AMBIENT
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BPIP	BOILER PLANT INSTRUMENTATION PANEL
BYP	BY-PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CC	CRITICAL CARE
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CLG	CEILING
CMU	CONCRETE MASONARY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISTR	DISTRIBUTION
DN	DOWN
DRSW	DOOR SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EE	ESSENTIAL EQUIPMENT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC or ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
EX or EXIST	EXISTING
FLEX	FLEXIBLE METALLIC CONDUIT
FOUTT	TELEPHONE FLOOR OUTLET
FP	FIRE PROTECTION
FT	FEET or FOOT
FU SW	FUSED SWITCH
G or GND	GROUND
GEN	GENERATOR
GRC	GALVANIZED RIGID STEEL CONDUIT
GTB	GROUND TERMINAL BOX
HOA	HAND-OFF-AUTOMATIC
HPC	HIGH PAIR CONDUIT
HT	HEIGHT
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
J-BOX	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LF	LINEAR FEET (FOOT)
LS	LIFE SAFETY
LTNG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MM	MULTI-MODE
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEUT or N	NEUTRAL
NIC	NOT IN CONTRACT
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD or PULL BOX or PUSHBUTTON
PSPU	PREFABRICATION BEDSIDE PATIENT UNIT
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINAL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
SF	SQUARE FOOT(FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SSWHP	SPLIT SYSTEM WALL HEAT PUMP
SURF	SURFACE
SW	SWITCH
TEL	TELEPHONE
TP	TWISTED PAIR
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
WCR	WITHSTANDING AND CLOSING RATING
WP	WEATHERPROOF

THE TERM PROFESSIONAL REFERS TO THE ARCHITECTURAL OR ENGINEERING FIRM RETAINED BY THE DEPARTMENT TO DESIGN AND DOCUMENT THE WORK OF THE PROJECT, OR THE PROFESSIONAL'S AUTHORIZED REPRESENTATIVE. THE TERM PROFESSIONAL MAY ALSO REFER TO THE CLIENT AGENCY IF THE PROJECT DESIGN WAS DELEGATED TO THE CLIENT AGENCY. THROUGHOUT THE SPECIFICATIONS AND DRAWINGS WHEREVER THE TERMS 'A/E', 'ARCHITECT' OR 'ENGINEER' ARE USED IT SHALL MEAN PROFESSIONAL.

GENERAL NOTES - ELECTRICAL

1. REFER TO ARCHITECTURAL DETAILS, ELEVATIONS AND REFLECTED CEILING PLANS FOR LOCATION AND COORDINATION OF LIGHTING FIXTURES IN CEILING CONSTRUCTION.
2. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
3. ALL WIRE, CONDUIT, CONNECTORS, OUTLETS BOXES, ETC. NECESSARY TO ACHIEVE A COMPLETE ELECTRICAL INSTALLATION WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN SHALL BE FURNISHED AND INSTALLED AS THOUGH FULLY SHOWN AND SPECIFIED.
4. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM THE TOP OR BOTTOM CORD OF BAR JOIST, LIGHTING FIXTURES WHICH ARE INSTALLED IN SUSPENDED CEILING SYSTEM MUST BE MECHANICALLY FASTENED TO T-BAR SYSTEM AS PER SPECIFICATIONS.
5. NO CONDUITS SHALL BE RUN THROUGH OR SUPPORTED FROM DUCTWORK.
6. ALL ELECTRICAL WORK, WIRING, CONNECTIONS AND ASSOCIATED EQUIPMENT WITHIN THE AREA OF WORK SHALL BE AS PER APPLICABLE ARTICLES OF THE NATIONAL ELECTRICAL CODE. COORDINATE WITH SPECIFICATIONS FOR DEVICE REQUIREMENTS.
7. IT IS CALLED TO THE CONTRACTOR'S ATTENTION THAT THE ENTIRE INSTALLATION MUST BE GROUNDED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE. ALL DEVICES, EQUIPMENT BOXES, ETC. MUST BE CONNECTED TO A SOLID, INSULATED GREEN, COPPER GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR MUST BE CONTINUOUS WITHOUT SPLICES FROM POINT OF ORIGIN IN PANELBOARD TO ALL BOXES AND EQUIPMENT ON EACH BRANCH CIRCUIT. VERIFY GROUNDING VALUES AND SUBMIT A TYPEWRITTEN REPORT TO THE ARCHITECT INDICATING TESTING RESULTS OF EACH CIRCUIT AT THE COMPLETION OF THE PROJECT.
8. FOR SINGLE PHASE 20 AMP CIRCUITS, UNLESS NOTED OTHERWISE, NEW WIRING INDICATED SHALL BE 2 #12 & 1#12 GROUND IN 1/2" CONDUIT. FOR THREE PHASE 20 AMP CIRCUITS, UNLESS NOTED OTHERWISE, NEW WIRING INDICATED SHALL BE 4 #12 & 1 #12 GROUND IN 1/2"CONDUIT. FOR CIRCUITS THAT REQUIRE LONG TRAVEL DISTANCES, REFER TO VOLTAGE DROP NOTE THIS DRAWING.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE STOPPING AT ALL FLOOR SLAB/CEILING AND WALL PENETRATIONS WITHIN THE LIMITS OF CONTRACT WORK AREA TO MAINTAIN THE FIRE RATED CONSTRUCTION.
10. AFTER CONSTRUCTION, ALL UNUSED SPACES IN PANELS SHALL BE LABELED AS A 'PROVISION', ALL SPARE BREAKERS SHALL BE PLACED IN THE OFF POSITION AND LABELED AS 'SPARE'.
11. COORDINATE EXACT LOCATIONS OF FLOOR BOXES WITH ARCHITECT PRIOR TO INSTALLATION.

VOLTAGE DROP NOTE:

THE FOLLOWING LIST APPLIES TO ALL NEW BRANCH WIRING PROVIDED UNDER THIS CONTRACT. LISTS INDICATED THE NECESSARY GAUGE OF CONDUCTORS NECESSARY FOR BRANCH CIRCUITS ONE WAY FROM PANEL TO LAST OUTLET OR LIGHTING FIXTURE ON THE CIRCUIT.

120/208V CIRCUITS	WIRE SIZE	277V CIRCUITS
• 0 - 100 FEET	No. 12 AWG	0 - 150 FEET
• 101 - 250 FEET	No. 10 AWG	151 - 350 FEET
• 250 - 400 FEET	No. 8 AWG	351 - 500 FEET

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL STEVEN A. MULHOLLEN ENGINEER ASSOCIATE 6/15/22

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

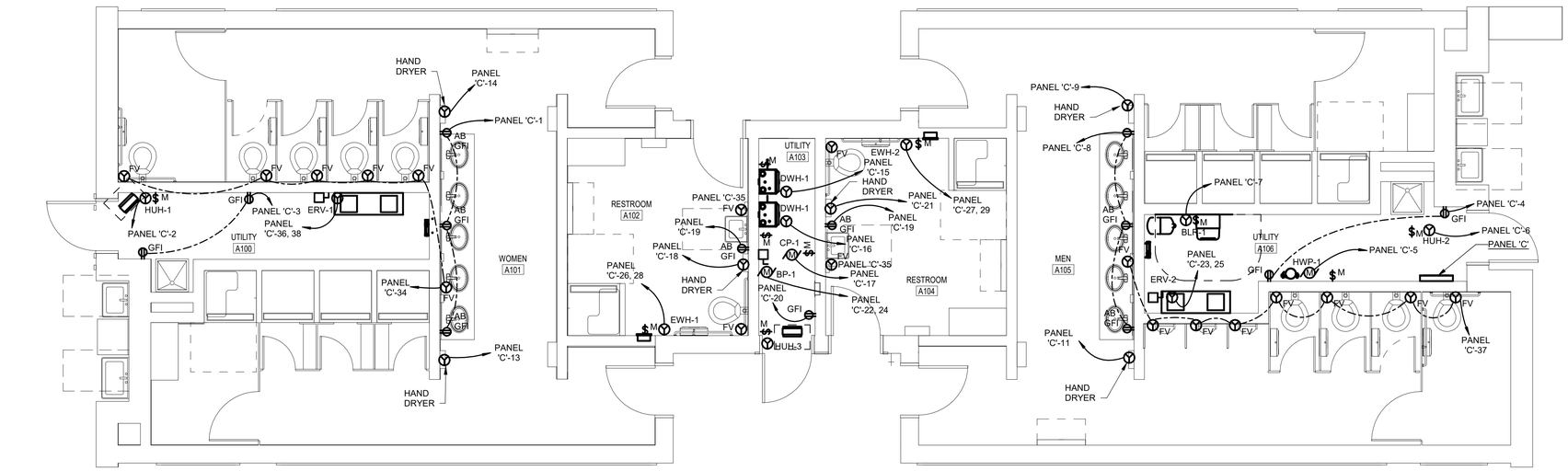
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ■ 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

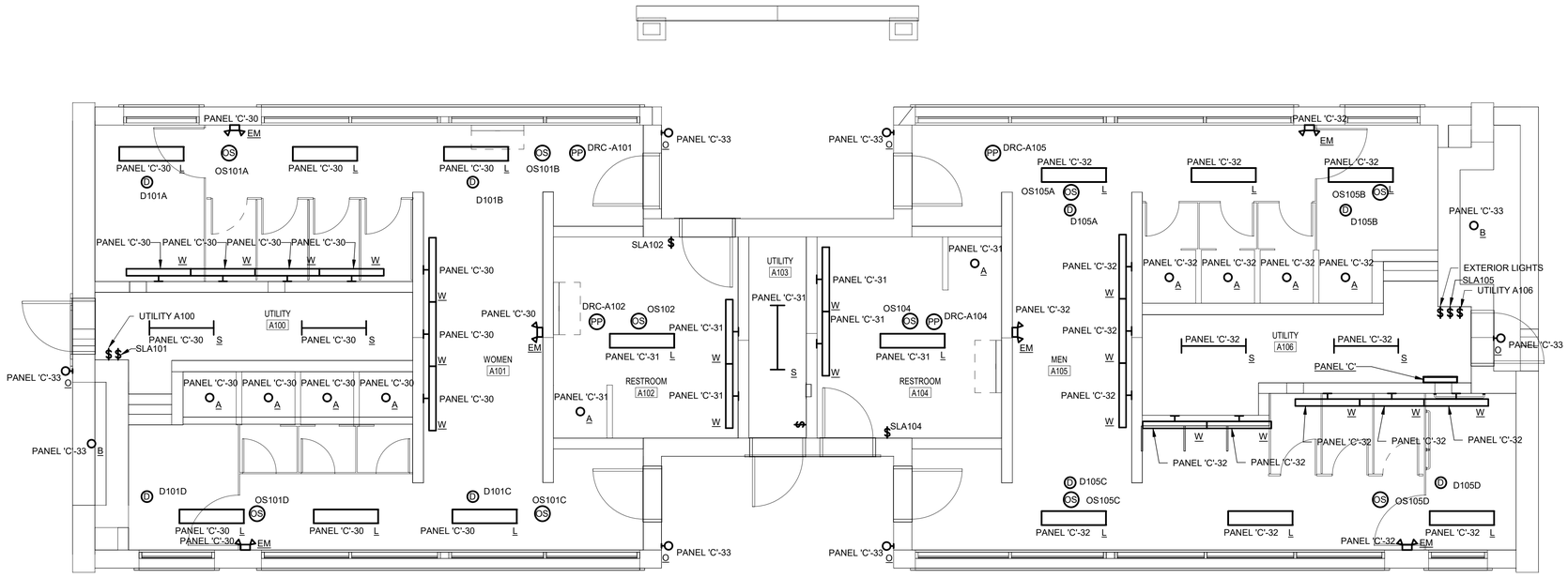
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
G. GALLINA	06/17/2022	E-1
CHECKED BY	SCALE	
S.MULHOLLEN	AS NOTED	



2 LOOP-C - POWER

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



1 LOOP-C - LIGHTING

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

GENERAL ELECTRICAL NOTES:

1. CONNECT BATTERY OPERATED EMERGENCY LIGHTING UNITS TYPE 'EM' AND ALL BATTERY OPERATED EXIST SIGNS TYPE 'EX1' TO LIGHTING CIRCUIT SERVING THE AREA. THIS CONNECTION SHALL BE AHEAD OF THE SWITCH LEG AND SHALL NOT BE SWITCHED IN ANY MANNER.

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL STEVEN A. MULHOLLEN ENGINEER ASSOCIATE

6/15/22

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

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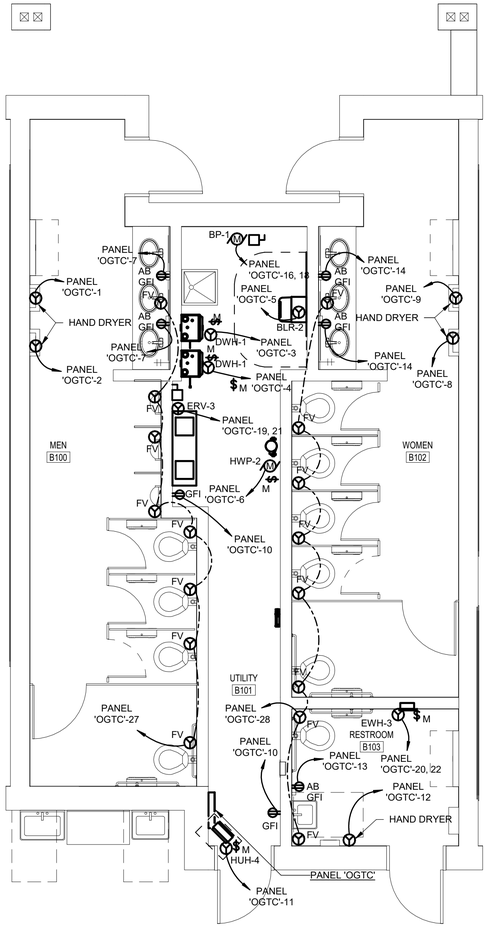
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

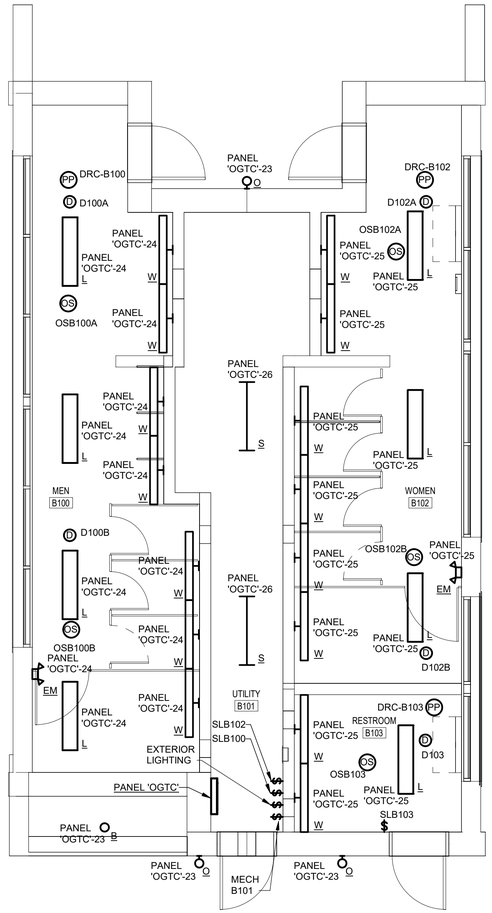
LOOP – C FLOOR PLAN – ELECTRICAL

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
G. GALLINA	06/17/2022	E-2
CHECKED BY	SCALE	
S.MULHOLLEN	AS NOTED	



1 OGTC - POWER
SCALE: 1/4" = 1'-0"



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

GENERAL ELECTRICAL NOTES:

1. CONNECT BATTERY OPERATED EMERGENCY LIGHTING UNITS TYPE 'EM' AND ALL BATTERY OPERATED EXIST SIGNS TYPE 'EX1' TO LIGHTING CIRCUIT SERVING THE AREA. THIS CONNECTION SHALL BE AHEAD OF THE SWITCH LEG AND SHALL NOT BE SWITCHED IN ANY MANNER

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
STEVEN F. MULHOLLEN
Engineer
6/15/22

SIGNATURE DATE

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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS
DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

OGTC FLOOR PLAN – ELECTRICAL

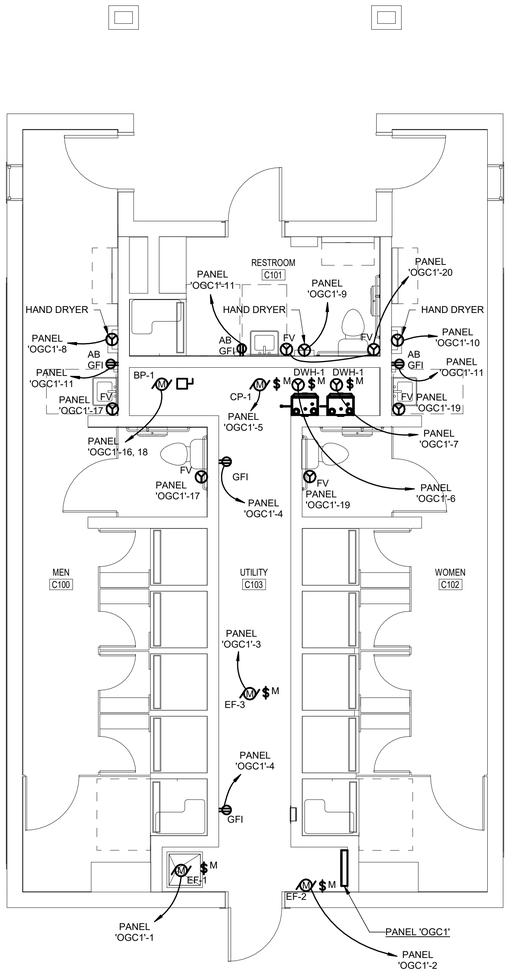
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
G. GALLINA	06/17/2022	E-3
CHECKED BY	SCALE	
S.MULHOLLEN	AS NOTED	

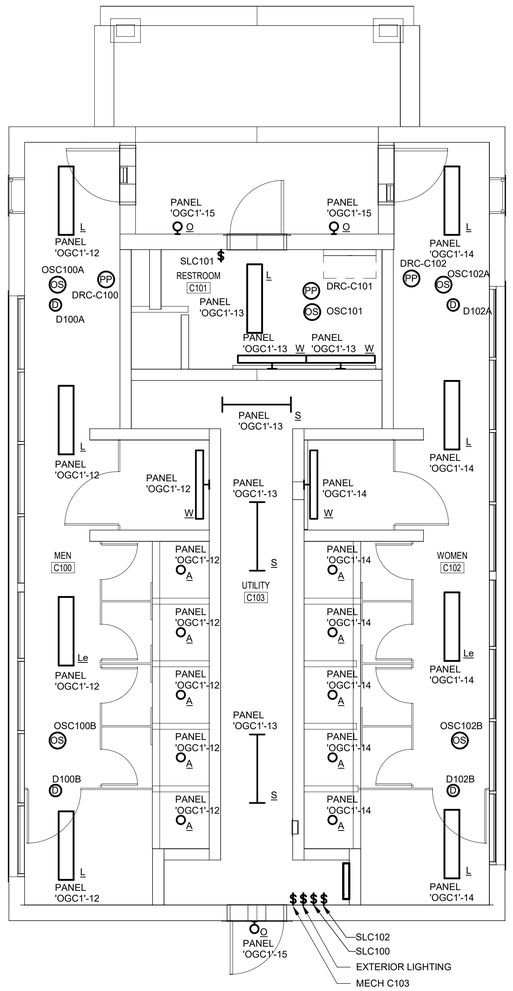
ALL WORK ON THIS SHEET IS BASE BID #3

GENERAL ELECTRICAL NOTES:

1. CONNECT BATTERY OPERATED EMERGENCY LIGHTING UNITS TYPE 'EM' AND ALL BATTERY OPERATED EXIST SIGNS TYPE 'EX1' TO LIGHTING CIRCUIT SERVING THE AREA. THIS CONNECTION SHALL BE AHEAD OF THE SWITCH LEG AND SHALL NOT BE SWITCHED IN ANY MANNER



1 OGC - DADDY ALLEN - POWER
SCALE: 1/4" = 1'-0"



2 OGC - DADDY ALLEN - LIGHTING
SCALE: 1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL STEVEN P. MULHOLLEN Engineer 6/15/22

SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 ▬▬▬ 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS

DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

CAMP DADDY ALLEN FLOOR PLAN – ELECTRICAL

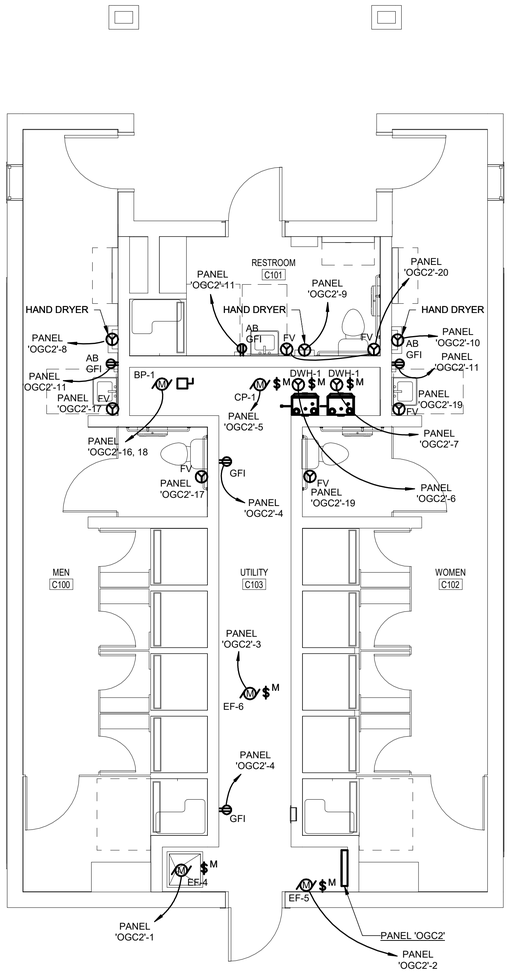
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
G. GALLINA	06/17/2022	E-4
CHECKED BY	SCALE	
S.MULHOLLEN	AS NOTED	

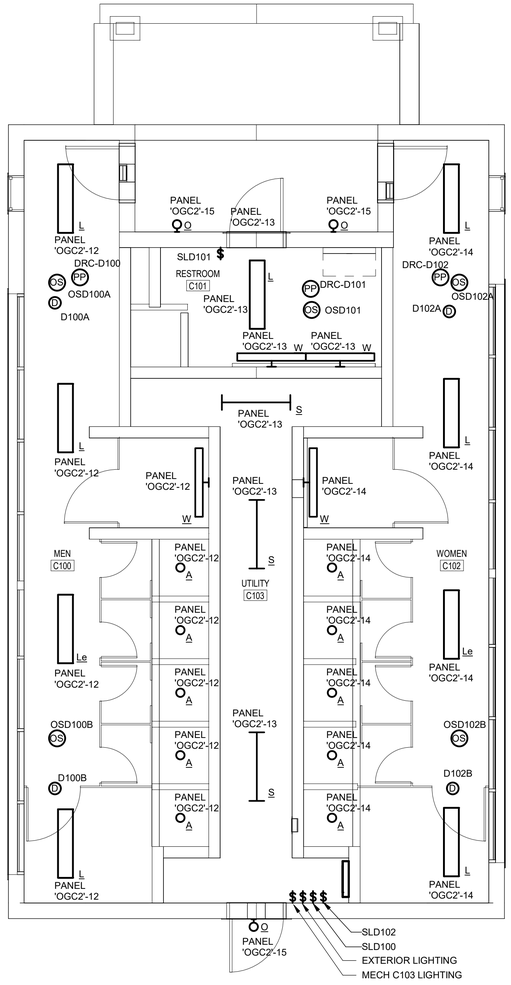
ALL WORK ON THIS SHEET IS BASE BID #2

GENERAL ELECTRICAL NOTES:

1. CONNECT BATTERY OPERATED EMERGENCY LIGHTING UNITS TYPE 'EM' AND ALL BATTERY OPERATED EXIST SIGNS TYPE 'EX1' TO LIGHTING CIRCUIT SERVING THE AREA. THIS CONNECTION SHALL BE AHEAD OF THE SWITCH LEG AND SHALL NOT BE SWITCHED IN ANY MANNER



1 OGC - SHEHAQUA - POWER
SCALE: 1/4" = 1'-0"



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

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL STEVEN P. MULHOLLEN ENGINEER ASSOCIATE
6/15/22

SIGNATURE DATE

SMP ARCHITECTS
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PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
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HARRISBURG, PENNSYLVANIA

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WHITE HAVEN, CARBON COUNTY, PA

CAMP SHEHAQUA FLOOR PLAN – ELECTRICAL

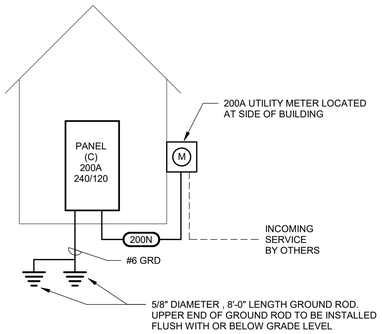
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
G. GALLINA	06/17/2022	E-5
CHECKED BY	SCALE	
S.MULHOLLEN	AS NOTED	

WORK SHOWN IN DETAIL 3 IS BASE BID #3

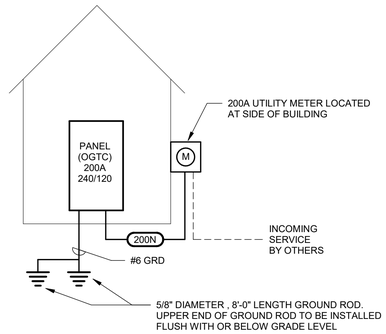
WORK SHOWN IN DETAIL 4 IS BASE BID #2

ALL WORK ASSOCIATED WITH SHEHAQUA IS BASE BID #2
ALL WORK ASSOCIATED WITH CAMP DADDY ALLEN IS BASE BID #3



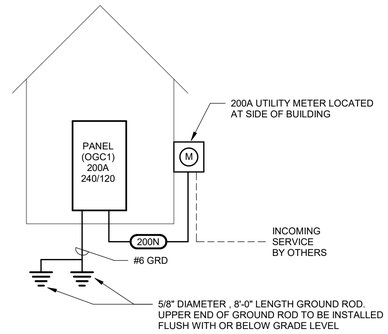
GENERAL NOTE:
GROUNDING OF THE ELECTRICAL SERVICE AT THE MAIN WATER LINE MUST BE WITHIN THE FIRST 5' OF WATER PIPING INTO THE BUILDING.

1 LOOP C - ELECTRICAL RISER
NOT TO SCALE



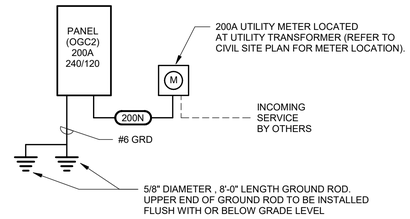
GENERAL NOTE:
GROUNDING OF THE ELECTRICAL SERVICE AT THE MAIN WATER LINE MUST BE WITHIN THE FIRST 5' OF WATER PIPING INTO THE BUILDING.

2 OGTC - ELECTRICAL RISER
NOT TO SCALE



GENERAL NOTE:
GROUNDING OF THE ELECTRICAL SERVICE AT THE MAIN WATER LINE MUST BE WITHIN THE FIRST 5' OF WATER PIPING INTO THE BUILDING.

3 CAMP DADDY ALLEN - ELECTRICAL RISER
NOT TO SCALE

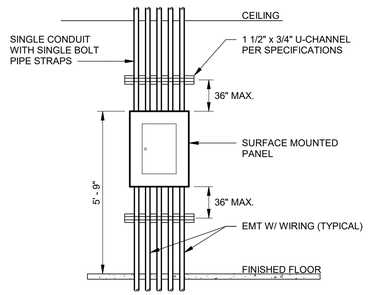


GENERAL NOTE:
GROUNDING OF THE ELECTRICAL SERVICE AT THE MAIN WATER LINE MUST BE WITHIN THE FIRST 5' OF WATER PIPING INTO THE BUILDING.

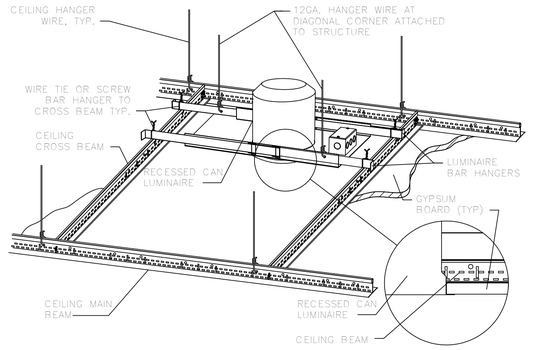
4 CAMP SHEHAQUA - ELECTRICAL RISER
NOT TO SCALE

FEEDER SCHEDULE

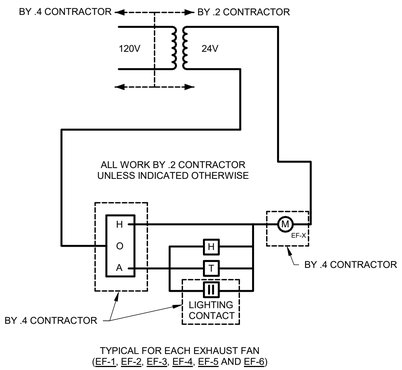
FEEDER NUMBER	QTY OF SETS	PHASE CONDUCTORS		NEUTRAL CONDUCTORS		GROUND CONDUCTORS		CONDUIT SIZE	NOTES
		QTY	SIZE	QTY	SIZE	QTY	SIZE		
200N	1	2	3/0	1	3/0	1	6	2"	



5 SURFACE MOUNTED PANEL INSTALLATION (TYPICAL)
NOT TO SCALE

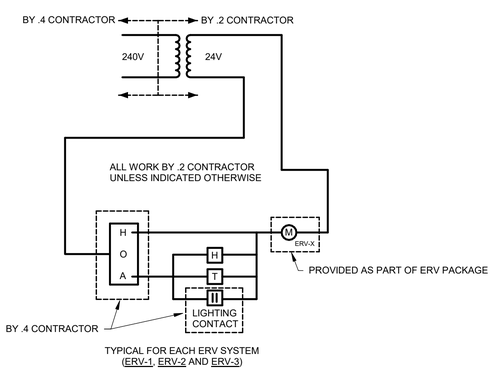


6 DOWNLIGHT MOUNTING - GYPBOARD CEILING
NOT TO SCALE



TYPICAL FOR EACH EXHAUST FAN
(EF-1, EF-2, EF-3, EF-4, EF-5 AND EF-6)

7 EXHAUST FAN CONTROL DIAGRAM
SCALE: 12" = 1'-0"



TYPICAL FOR EACH ERV SYSTEM
(ERV-1, ERV-2 AND ERV-3)

8 ENERGY RECOVERY VENTILATOR CONTROL DIAGRAM
SCALE: 12" = 1'-0"

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
STEVEN P. MULHOLLEN
ENGINEER
ASSOCIATE
6/15/22

SIGNATURE DATE

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DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

DIAGRAMS – ELECTRICAL

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DRAWN BY	DATE	DRAWING No.
G. GALLINA	06/17/2022	E-6
CHECKED BY	SCALE	
S.MULHOLLEN	AS NOTED	

PANEL PANEL 'C'

LOCATION: UTILITY A106 | **VOLTAGE:** 120/240 Single | **A.I.C. RATING:**
SUPPLY FROM: | **PHASES:** 1 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 3 | **MAINS RATING:** 200 A
ENCLOSURE: NEMA 1 | **MCB RATING:** 200 A
SERVICE ENTRANCE RATED

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	RECEPTACLE	20 A	1	540	180			1	20 A	HUH-1	2
3	RECEPTACLE	20 A	1			360	360	1	20 A	RECEPTACLE	4
5	HWP-1	20 A	1	1656	500			1	20 A	HUH-2	6
7	BLR-1	20 A	1			480	540	1	20 A	RECEPTACLE	8
9	HAND DRYER	20 A	1	1000	0			1	20 A	SPARE	10
11	HAND DRYER	20 A	1			1000	0	1	20 A	SPARE	12
13	HAND DRYER	20 A	1	1000	1000			1	20 A	HAND DRYER	14
15	DWH-1	20 A	1			180	180	1	20 A	DWH-1	16
17	CP-1	20 A	1	250	1000			1	20 A	HAND DRYER	18
19	RECEPTACLE	20 A	1			0	0	1	20 A	RECEPTACLE	20
21	HAND DRYER	20 A	1	1000	1425			2	30 A	BP-1	22
23	ERV-2	25 A	2			2100	1425				24
25				2100	1000			2	20 A	EWH-1	26
27	EWH-2	20 A	2			1000	1000				28
29				1000	581			1	20 A	LIGHTING	30
31	LIGHTING	20 A	1			271	609	1	20 A	LIGHTING	32
33	LIGHTING	20 A	1	306	150			1	20 A	AUTOMATIC FLUSH VALVE	34
35	AUTOMATIC FLUSH VALVE	20 A	1			100	2100	2	25 A	ERV-1	36
37	AUTOMATIC FLUSH VALVE	20 A	1	200	2100						38
39	SPARE	20 A	1			0	0	1	20 A	SPARE	40
41	SPARE	20 A	1	0	0			1	20 A	SPARE	42
		TOTAL LOAD:		17528 VA		11705 VA					
		TOTAL AMPS:		146 A		98 A					

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	1734 VA	100.00%	1734 VA		
RECEPTACLE	2340 VA	50.00%	1170 VA	**TOTAL CONNECTED LOAD:**	29200 VA
Spare	15250 VA	100.00%	15250 VA	**TOTAL ESTIMATED DEMAND:**	28030 VA
MECHANICAL EQUIPMENT	9876 VA	100.00%	9876 VA	**TOTAL CONNECTED:**	122 A
				TOTAL ESTIMATED DEMAND:	117 A

NOTES:

PANEL PANEL 'OGC1'

LOCATION: UTILITY C103 | **VOLTAGE:** 120/240 Single | **A.I.C. RATING:**
SUPPLY FROM: | **PHASES:** 1 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 3 | **MAINS RATING:** 200 A
ENCLOSURE: NEMA 1 | **MCB RATING:** 200 A
SERVICE ENTRANCE RATED

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EF-1	20 A	1	180	180			1	20 A	EF-2	2
3	EF-3	20 A	1			180	360	1	20 A	RECEPTACLE	4
5	CP-1	20 A	1	180	180			1	20 A	DWH-1	6
7	DWH-1	20 A	1			180	1000	1	20 A	HAND DRYER	8
9	HAND DRYER	20 A	1	1000	1000			1	20 A	HAND DRYER	10
11	RECEPTACLE	20 A	1			540	258	1	20 A	LIGHTING	12
13	LIGHTING	20 A	1	169	258			1	20 A	LIGHTING	14
15	LIGHTING	20 A	1			138	1425	2	30 A	BP-1	16
17	AUTOMATIC FLUSH VALVE	20 A	1	50	1425						18
19	AUTOMATIC FLUSH VALVE	20 A	1			50	50	1	20 A	AUTOMATIC FLUSH VALVE	20
21	SPARE	20 A	1	0	0			1	20 A	SPARE	22
23	SPARE	20 A	1			0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0			1	20 A	SPARE	26
27	SPARE	20 A	1			0	0	1	20 A	SPARE	28
29	SPARE	20 A	1	0	0			1	20 A	SPARE	30
31	SPARE	20 A	1			0	0	1	20 A	SPARE	32
33	SPARE	20 A	1	0	0			1	20 A	SPARE	34
35	SPARE	20 A	1			0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0			1	20 A	SPARE	38
39	SPARE	20 A	1			0	0	1	20 A	SPARE	40
41	SPARE	20 A	1	0	0			1	20 A	SPARE	42
		TOTAL LOAD:		4622 VA		4181 VA					
		TOTAL AMPS:		39 A		35 A					

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	824 VA	100.00%	824 VA		
RECEPTACLE	900 VA	50.00%	450 VA	**TOTAL CONNECTED LOAD:**	8804 VA
MECHANICAL EQUIPMENT	7080 VA	100.00%	7080 VA	**TOTAL ESTIMATED DEMAND:**	8354 VA
				TOTAL CONNECTED:	37 A
				TOTAL ESTIMATED DEMAND:	35 A

NOTES:

PANEL PANEL 'OGTC'

LOCATION: UTILITY B101 | **VOLTAGE:** 120/240 Single | **A.I.C. RATING:**
SUPPLY FROM: | **PHASES:** 1 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 3 | **MAINS RATING:** 200 A
ENCLOSURE: NEMA 1 | **MCB RATING:** 200 A
SERVICE ENTRANCE RATED

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	HAND DRYER	20 A	1	1000	1000			1	20 A	HAND DRYER	2
3	DWH-1	20 A	1			180	180	1	20 A	DWH-1	4
5	BLR-2	20 A	1	180	480			1	20 A	HWP-2	6
7	RECEPTACLE	20 A	1			360	1000	1	20 A	HAND DRYER	8
9	HAND DRYER	20 A	1	1000	360			1	20 A	RECEPTACLE	10
11	HUH-4	20 A	1			180	1000	1	20 A	HAND DRYER	12
13	RECEPTACLE	20 A	1	180	360			1	20 A	RECEPTACLE	14
15	SPARE	20 A	1			0	1425	2	30 A	BP-1	16
17	SPARE	20 A	1	0	1425						18
19	ERV-3	25 A	2			2100	1000	2	20 A	EWH-3	20
21				2100	1000						22
23	LIGHTING	20 A	1			153	339	1	20 A	LIGHTING	24
25	LIGHTING	20 A	1	378	46			1	20 A	LIGHTING	26
27	AUTOMATIC FLUSH VALVE	20 A	1			200	200	1	20 A	AUTOMATIC FLUSH VALVE	28
29	SPARE	20 A	1	0	0			1	20 A	SPARE	30
31	SPARE	20 A	1			0	0	1	20 A	SPARE	32
33	SPARE	20 A	1	0	0			1	20 A	SPARE	34
35	SPARE	20 A	1			0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0			1	20 A	SPARE	38
39	SPARE	20 A	1			0	0	1	20 A	SPARE	40
41	SPARE	20 A	1	0	0			1	20 A	SPARE	42
		TOTAL LOAD:		9509 VA		8317 VA					
		TOTAL AMPS:		79 A		69 A					

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	917 VA	100.00%	917 VA		
RECEPTACLE	1260 VA	50.00%	630 VA	**TOTAL CONNECTED LOAD:**	17827 VA
MECHANICAL EQUIPMENT	15650 VA	100.00%	15650 VA	**TOTAL ESTIMATED DEMAND:**	17197 VA
				TOTAL CONNECTED:	74 A
				TOTAL ESTIMATED DEMAND:	72 A

NOTES:

PANEL PANEL 'OGC2'

LOCATION: UTILITY C103 | **VOLTAGE:** 120/240 Single | **A.I.C. RATING:**
SUPPLY FROM: | **PHASES:** 1 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 3 | **MAINS RATING:** 200 A
ENCLOSURE: NEMA 1 | **MCB RATING:** 200 A
SERVICE ENTRANCE RATED

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EF-4	20 A	1	180	180			1	20 A	EF-5	2
3	EF-6	20 A	1			180	360	1	20 A	RECEPTACLE	4
5	CP-1	20 A	1	180	180			1	20 A	DWH-1	6
7	DWH-1	20 A	1			180	1000	1	20 A	HAND DRYER	8
9	HAND DRYER	20 A	1	1000	1000			1	20 A	HAND DRYER	10
11	RECEPTACLE	20 A	1			540	258	1	20 A	LIGHTING	12
13	LIGHTING	20 A	1	158	258			1	20 A	LIGHTING	14
15	LIGHTING	20 A	1			138	1425	2	30 A	BP-1	16
17	AUTOMATIC FLUSH VALVE	20 A	1	50	1425						18
19	AUTOMATIC FLUSH VALVE	20 A	1			50	50	1	20 A	AUTOMATIC FLUSH VALVE	20
21	SPARE	20 A	1	0	0			1	20 A	SPARE	22
23	SPARE	20 A	1			0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0			1	20 A	SPARE	26
27	SPARE	20 A	1			0	0	1	20 A	SPARE	28
29	SPARE	20 A	1	0	0			1	20 A	SPARE	30
31	SPARE	20 A	1			0	0	1	20 A	SPARE	32
33	SPARE	20 A	1	0	0			1	20 A	SPARE	34
35	SPARE	20 A	1			0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0			1	20 A	SPARE	38
39	SPARE	20 A	1			0	0	1	20 A	SPARE	40
41	SPARE	20 A	1	0	0			1	20 A	SPARE	42
		TOTAL LOAD:		4611 VA		4181 VA					
		TOTAL AMPS:		38 A		35 A					

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	812 VA	100.00%	812 VA		
RECEPTACLE	900 VA	50.00%	450 VA	**TOTAL CONNECTED LOAD:**	8792 VA
MECHANICAL EQUIPMENT	7080 VA	100.00%	7080 VA	**TOTAL ESTIMATED DEMAND:**	8342 VA
				TOTAL CONNECTED:	37 A
				TOTAL ESTIMATED DEMAND:	35 A

NOTES:

ALL WORK ASSOCIATED WITH SHEHAQUA IS BASE BID #2
ALL WORK ASSOCIATED WITH CAMP DADDY ALLEN IS BASE BID #3

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — STEVEN A. MULHOLLEN — ENGINEER — 6/15/22

SIGNATURE DATE

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1600 WALNUT STREET, SECOND FLOOR
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DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ELECTRICAL SCHEDULES

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DRAWN BY	DATE	DRAWING No.
G. GALLINA	06/17/2022	E-7
CHECKED BY	SCALE	
S.MULHOLLEN	AS NOTED	

ALL WORK ASSOCIATED WITH SHEHAQUA IS BASE BID #2
ALL WORK ASSOCIATED WITH CAMP DADDY ALLEN IS BASE BID #3

DIGITAL ROOM CONTROLLER SCHEDULE

DRC NUMBER	RELAYS	PANELBOARD	CIRCUIT #	AREA CONTROLLED	CONTROL	NOTES
LOOP C						
DRC-A101	1	C	30	WOMENS A101	LVS,OS,D	
DRC-A102	1	C	31	RESTROOM A102	LVS,OS	
DRC-A104	1	C	31	RESTROOM A104	LVS,OS	
DRC-A105	1	C	32	MENS A105	LVS,OS,D	
OGTC						
DRC-B100	1	OGTC	24	MEN B100	LVS,OS,D	
DRC-B102	1	OGTC	25	WOMEN B102	LVS,OS,D	
DRC-B103	1	OGTC	25	RESTROOM B103	LVS,OS,D	
CAMP DADDY ALLEN						
DRC-C100	1	OGC1	12	MENS C100	LVS,OS,D	
DRC-C101	1	OGC1	13	RESTROOM C101	LVS,OS	
DRC-C102	1	OGC1	14	WOMEN C102	LVS,OS,D	
CAMP SHEHAQUA						
DRC-D100	1	OGC2	12	MENS C100	LVS,OS,D	
DRC-D101	1	OGC2	13	RESTROOM C101	LVS,OS	
DRC-D102	1	OGC2	14	WOMEN C102	LVS,OS,D	

CONTROL PANEL NOTES: TC = TIME CLOCK, PC = PHOTOELECTRIC CELL, OS = OCCUPANCY SENSOR, LVS = LOW VOLTAGE SWITCH, D = DAYLIGHT SENSOR, PL = PLUG LOAD CONTROLLER

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLTAGE	BALLAST	MOUNTING	MANUFACTURER OR APPROVED EQUAL	CATALOG NUMBER OR APPROVED EQUAL	INPUT WATTS	COMMENTS
A	SURFACE MOUNTED SHOWER FIXTURE	-	120 V	-	SURFACE MOUNT	KENALL LUMINAIRE LED FAIL SAFE	MS11FL-PP-MW-20L35-DV SWP1212 MIN10 25W 35K MVOLT OP WHT G12-LD4-20-35-UNV-EDC1	24 W	
B	6" RECESSED CAN LIGHT RATED FOR EXTERIOR USE	-	120 V	-	RECESSED	KENALL GOTHAM FAIL SAFE	HADL6-X-12L-35K8-M-CS-G EVO6SH 35/15 DFF SMO MVOLT EZ10 FLDBX-10-D010-FEU6B-1/2-80-35-F6LBXV-1-H	15 W	
EM	EMERGENCY BATTERY PACK	-	120 V	-	SURFACE MOUNT	KENALL ISOLITE BARRON	METELHC-24N-2-6.5LDT HZN NC 6V22W MBC L67 SD TP CP-EMW-25-LED	7 W	
L	LINEAR LED FIXTURE	-	120 V	-	SURFACE MOUNT	AXIS STARTEK COOPER	TB4SLED10008035SOXWUNVDP BEAMD 4' 1000 SD 35K PW SM U S124DS-C-1020D-8-35-1-U-DD-F-W	33 W	
Le	LINEAR LED FIXTURE	-	120 V	-	SURFACE MOUNT	AXIS STARTEK	- BEAMD 4' 1000 SD 35K PW SM U EMB10	33 W	LOWER CASE e INDICATES FIXTURES WITH INTEGRAL EMERGENCY BATTERY PACKS.
O	WALL SCONCE	-	120 V	-	SURFACE MOUNT	GARDCO LITHONIA LEGION	101L-16L-1000-WW-G1-UNV-PBC-F1-OPTIONS WDGE2 LED P5 30K 80CRI VW MVOLT SRM PE DDBXD 9120G2 045L 50 UNV BZ PC-BT-UNV	46 W	CONTROLLED VIA PHOTO CELL & MOTION CONTROLLED DIMMING TO 50%
S	LED STRIP LIGHT	-	120 V	-	SURFACE MOUNT	- NEW STAR FAIL SAFE	MLHA5-48SP-MWPP45T-27/65K8-ATWDV-DL VIC4N L2 27K/65K 1C RWC UN WH DM1 TUNABLE WHITE HVSL2-4-LD4-HI-35-UNV-0-EDC1	23 W	
W	DIRECT INDIRECT WALL MOUNT FIXTURE		120 V		SURFACE MOUNT	AXIS STARTEK COOPER	TB2WDILED4008035SO-SOSWUNVDP1 SLIMDI 4' 400 400 SD CL 35K PW WM U S122DIW-485D-435V-8-35-X-U-DD-F-W	28 W	

NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL LIGHT FIXTURE COMPONENTS TO INSURE ALL NECESSARY PARTS ARE PROVIDED FOR A COMPLETE INSTALLATION.
2. REFER TO ARCHITECTURAL DRAWING FOR FIXTURE MOUNTING LOCATIONS.

MECHANICAL CONNECTIONS SCHEDULE

	LOAD								VFD		SAFETY SWITCH		STARTER		
MARK	kW	HP	MCA	MOP	VOLTAGE	PHASE	WIRE SIZE	CONDUIT SIZE	ENCLOSURE	BY-PASS	ENCLOSURE	SIZE	NEMA/HP SIZE	ENCLOSURE	COMMENTS
BLR-1	0.50 kW	0	5	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			PROVIDED WITH LOCKABLE DISCONNECT SWITCH
BLR-2	0.50 kW	0	5	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			PROVIDED WITH LOCKABLE DISCONNECT SWITCH
BP-1	0.00 kW	2	12	30	240 V	1	2#10 & 1#10 GRD	3/4"			NEMA 1	30A			
BP-1	0.00 kW	2	12	30	240 V	1	2#10 & 1#10 GRD	3/4"			NEMA 1	30A			
BP-1	0.00 kW	2	12	30	240 V	1	2#10 & 1#10 GRD	3/4"			NEMA 1	30A			
BP-1	0.00 kW	2	12	30	240 V	1	2#10 & 1#10 GRD	3/4"			NEMA 1	30A			
CP-1	0.00 kW	1/25	2	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
CP-1	0.00 kW	1/25	2	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
CP-1	0.00 kW	1/25	2	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
DWH-1	0.50 kW	0	0	0	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
DWH-1	0.50 kW	0	0	0	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
DWH-1	0.50 kW	0	0	0	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
DWH-1	0.50 kW	0	0	0	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
EF-1	0.00 kW	1/10	2.2	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			W/ HOA
EF-2	0.00 kW	1/10	2.2	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			W/ HOA
EF-3	0.00 kW	1/10	2.2	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			W/ HOA
EF-4	0.00 kW	1/10	2.2	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			W/ HOA
EF-5	0.00 kW	1/10	2.2	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			W/ HOA
EF-6	0.00 kW	1/10	2.2	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			W/ HOA
ERV-1	4.50 kW	-	0	0	240 V	1	2#10 & 1#10 GRD	3/4"			NEMA 1	30A			W/ HOA
ERV-2	4.50 kW	-	0	0	240 V	1	2#10 & 1#10 GRD	3/4"			NEMA 1	30A			W/ HOA
ERV-3	4.50 kW	-	0	0	240 V	1	2#10 & 1#10 GRD	3/4"			NEMA 1	30A			W/ HOA
EWH-1	2.00 kW	1/4	0	0	240 V	1	2#12 & 1#12 GRD	3/4"			NEMA 1	30A			
EWH-2	2.00 kW	1/4	0	0	240 V	1	2#12 & 1#12 GRD	3/4"			NEMA 1	30A			
EWH-3	2.00 kW	1/4	0	0	240 V	1	2#12 & 1#12 GRD	3/4"			NEMA 1	30A			
HUH-1	0.50 kW	1/10	0	0	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
HUH-2	0.50 kW	1/10	0	0	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
HUH-3	0.50 kW	1/10	0	0	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
HUH-4	0.50 kW	1/10	0	0	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
HWP-1	0.00 kW	3/4	13	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			
HWP-2	0.00 kW	1/2	9.8	20	120 V	1	2#12 & 1#12 GRD	3/4"			MMS	20A			

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

STEVEN P. MULHOLLEN
6/15/22
SIGNATURE DATE

SMP ARCHITECTS
1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-114-0006 PHASE 1

HICKORY RUN STATE PARK
LATRINE IMPROVEMENTS

DEPT of CONSERVATION AND NATURAL RESOURCES
WHITE HAVEN, CARBON COUNTY, PA

ELECTRICAL SCHEDULES

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 ▬ 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY: G. GALLINA
DATE: 06/17/2022
CHECKED BY: S.MULHOLLEN
SCALE: AS NOTED
DRAWING No.: E-8

ALL WORK ASSOCIATED WITH SHEHAQUA IS BASE BID #2
ALL WORK ASSOCIATED WITH CAMP DADDY ALLEN IS BASE BID #3

LOW VOLTAGE CONTROL STATION SCHEDULE

CONTROL STATION NUMBER	DESCRIPTION	BUTTON NUMBER	RELAY PANEL / ZONES	NOTES
LOOP C				
SLA101	WALL STATION	1	ON	CONTROLS A101 (LOCATED IN UTILITY ROOM)
		2	OFF	
SLA102	WALL STATION	1	ON	CONTROLS A102
		2	OFF	
SLA104	WALL STATION	1	ON	CONTROLS A104
		2	OFF	
SLA105	WALL STATION	1	ON	CONTROLS A105 (LOCATED IN UTILITY ROOM)
		2	OFF	
OS101A	OCCUPANCY/DUAL	-	DRC A101	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OS101B	OCCUPANCY/DUAL	-	DRC A101	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OS101C	OCCUPANCY/DUAL	-	DRC A101	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OS101D	OCCUPANCY/DUAL	-	DRC A101	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OS102	OCCUPANCY/DUAL	-	DRC A102	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OS104	OCCUPANCY/DUAL	-	DRC A104	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OS105A	OCCUPANCY/DUAL	-	DRC A105	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OS105B	OCCUPANCY/DUAL	-	DRC A105	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OS105C	OCCUPANCY/DUAL	-	DRC A105	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OS105D	OCCUPANCY/DUAL	-	DRC A105	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
D101A	DAYLIGHT SENSOR	-	DRC A101	DIMMING
D101B	DAYLIGHT SENSOR	-	DRC A101	DIMMING
D101C	DAYLIGHT SENSOR	-	DRC A101	DIMMING
D101D	DAYLIGHT SENSOR	-	DRC A101	DIMMING
D105A	DAYLIGHT SENSOR	-	DRC A105	DIMMING
D105B	DAYLIGHT SENSOR	-	DRC A105	DIMMING
D105C	DAYLIGHT SENSOR	-	DRC A105	DIMMING
D105D	DAYLIGHT SENSOR	-	DRC A105	DIMMING
OGTC				
SLB100	WALL STATION	1	ON	CONTROLS B100 (LOCATED IN UTILITY ROOM)
		2	OFF	
SLB102	WALL STATION	1	ON	CONTROLS B102 (LOCATED IN UTILITY ROOM)
		2	OFF	
SLB103	WALL STATION	1	ON	CONTROLS B103
		2		
OSB100A	OCCUPANCY/DUAL	-	DRC B100	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSB100B	OCCUPANCY/DUAL	-	DRC B100	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSB102A	OCCUPANCY/DUAL	-	DRC B102	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSB102B	OCCUPANCY/DUAL	-	DRC B102	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSB103	OCCUPANCY/DUAL	-	DRC B103	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
D100A	DAYLIGHT SENSOR	-	DRC B100	DIMMING
D100B	DAYLIGHT SENSOR	-	DRC B100	DIMMING
D102A	DAYLIGHT SENSOR	-	DRC B102	DIMMING
D102B	DAYLIGHT SENSOR	-	DRC B102	DIMMING
D103	DAYLIGHT SENSOR	-	DRC B103	DIMMING
CAMP DADDY ALLEN				
SLC100	WALL STATION	1	ON	CONTROLS C100 (LOCATED IN UTILITY ROOM)
		2	OFF	
SLC101	WALL STATION	1	ON	CONTROLS C101
		2	OFF	
SLC102	WALL STATION	1	ON	CONTROLS C102 (LOCATED IN UTILITY ROOM)
		2	OFF	
OSC100A	OCCUPANCY/DUAL	-	DRC C100	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSC100B	OCCUPANCY/DUAL	-	DRC C100	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSC101	OCCUPANCY/DUAL	-	DRC C101	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSC102A	OCCUPANCY/DUAL	-	DRC C102	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSC102B	OCCUPANCY/DUAL	-	DRC C102	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
D100A	DAYLIGHT SENSOR	-	DRC C100	DIMMING
D100B	DAYLIGHT SENSOR	-	DRC C100	DIMMING
D101	DAYLIGHT SENSOR	-	DRC C101	DIMMING
D102A	DAYLIGHT SENSOR	-	DRC C102	DIMMING
D102B	DAYLIGHT SENSOR	-	DRC C102	DIMMING
CAMP SHEHAQUA				
SLD100	WALL STATION	1	ON	CONTROLS C100 (LOCATED IN UTILITY ROOM)
		2	OFF	
SLD101	WALL STATION	1	ON	CONTROLS C101
		2	OFF	
SLD102	WALL STATION	1	ON	CONTROLS C102 (LOCATED IN UTILITY ROOM)
		2	OFF	
OSD100A	OCCUPANCY/DUAL	-	DRC D100	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSD100B	OCCUPANCY/DUAL	-	DRC D100	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSD101	OCCUPANCY/DUAL	-	DRC D101	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSD102A	OCCUPANCY/DUAL	-	DRC D102	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
OSD102B	OCCUPANCY/DUAL	-	DRC D102	MANUAL ON/AUTO OFF (PROVIDED WITH HVAC CONTACT)
D100A	DAYLIGHT SENSOR	-	DRC D100	DIMMING
D100B	DAYLIGHT SENSOR	-	DRC D100	DIMMING
D101	DAYLIGHT SENSOR	-	DRC D101	DIMMING
D102A	DAYLIGHT SENSOR	-	DRC D102	DIMMING
D102B	DAYLIGHT SENSOR	-	DRC D102	DIMMING

CONSTRUCTION DOCUMENTS

RECORD REVISIONS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
STEVEN P. MULHOLLEN
ENGINEER
6/15/22

SIGNATURE DATE

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1600 WALNUT STREET, SECOND FLOOR
PHILADELPHIA, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
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D.G.S. PROJECT No.
C-114-0006 PHASE 1

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DRAWN BY	DATE	DRAWING No.
G. GALLINA	06/17/2022	E-9
CHECKED BY	SCALE	
S.MULHOLLEN	AS NOTED	