

COMMUNITY UTILITIES OF PENNSYLVANIA, INC.

CHESTNUT LANE

PUMP STATION IMPROVEMENTS

WEST BRADFORD TOWNSHIP, CHESTER COUNTY, PA



I AM AN AUTHORIZED AGENT EMPLOYED BY THE OWNER
THAT ACKNOWLEDGES AND CERTIFIES THAT THIS FINAL
LAND DEVELOPMENT PLAN IS THE ACT AND DEED OF THE
LANDOWNER AND AGREES THAT THE LAND DEVELOPMENT
PLANS SHALL BE RECORDED AS SUCH.

SIGNATURE: _____

DATE: _____

CERTIFICATION BY ENGINEER OR SURVEYOR

a. I CERTIFY THAT THIS SURVEY AND PLAT ARE CORRECT:

(SEAL)

PRELIMINARY / FINAL LAND DEVELOPMENT PLAN

April 2024

OWNER'S CERTIFICATE AND ACKNOWLEDGEMENT OF SUBDIVISION AND LAND DEVELOPMENT PLANS

ON THIS THE _____ DAY OF _____, 20_____, BEFORE ME, THE UNDERSIGNED
OFFICER, PERSONALLY APPEARED:

(NAME OF OWNER)

WHO, BEING DULY SWEORN ACCORDING TO LAW, DEPOSES AND SAYS THAT HE IS THE OWNER AND/OR
EQUITABLE OWNER OF THE PROPERTY SHOWN ON THIS PLAN, AND THAT HE ACKNOWLEDGES THE SAME
TO BE HIS ACT AND PLAN AND DESIRES THE SAME BE RECORDED AS SUCH ACCORDING TO LAW.

WITNESS MY HAND AND SEAL THE DAY AND DATE ABOVE WRITTEN.

MY COMMISSION EXPIRES:

(NOTARY PUBLIC OR OTHER OFFICER)

(SEAL)

APPROVAL CERTIFICATE BY THE BOARD OF SUPERVISORS

APPROVED BY RESOLUTION OF THE BOARD OF SUPERVISORS OF WEST BRADFORD TOWNSHIP
THIS _____ DAY OF _____.

CHAIRMAN

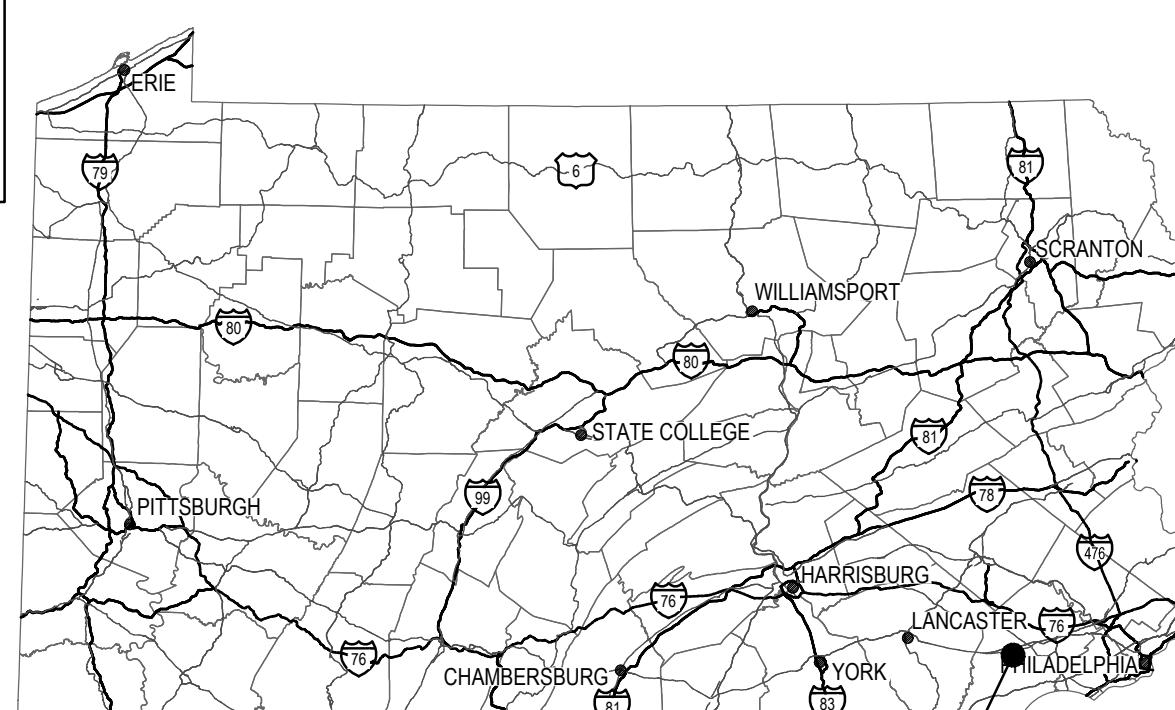
VICE-CHAIRMAN

MEMBER

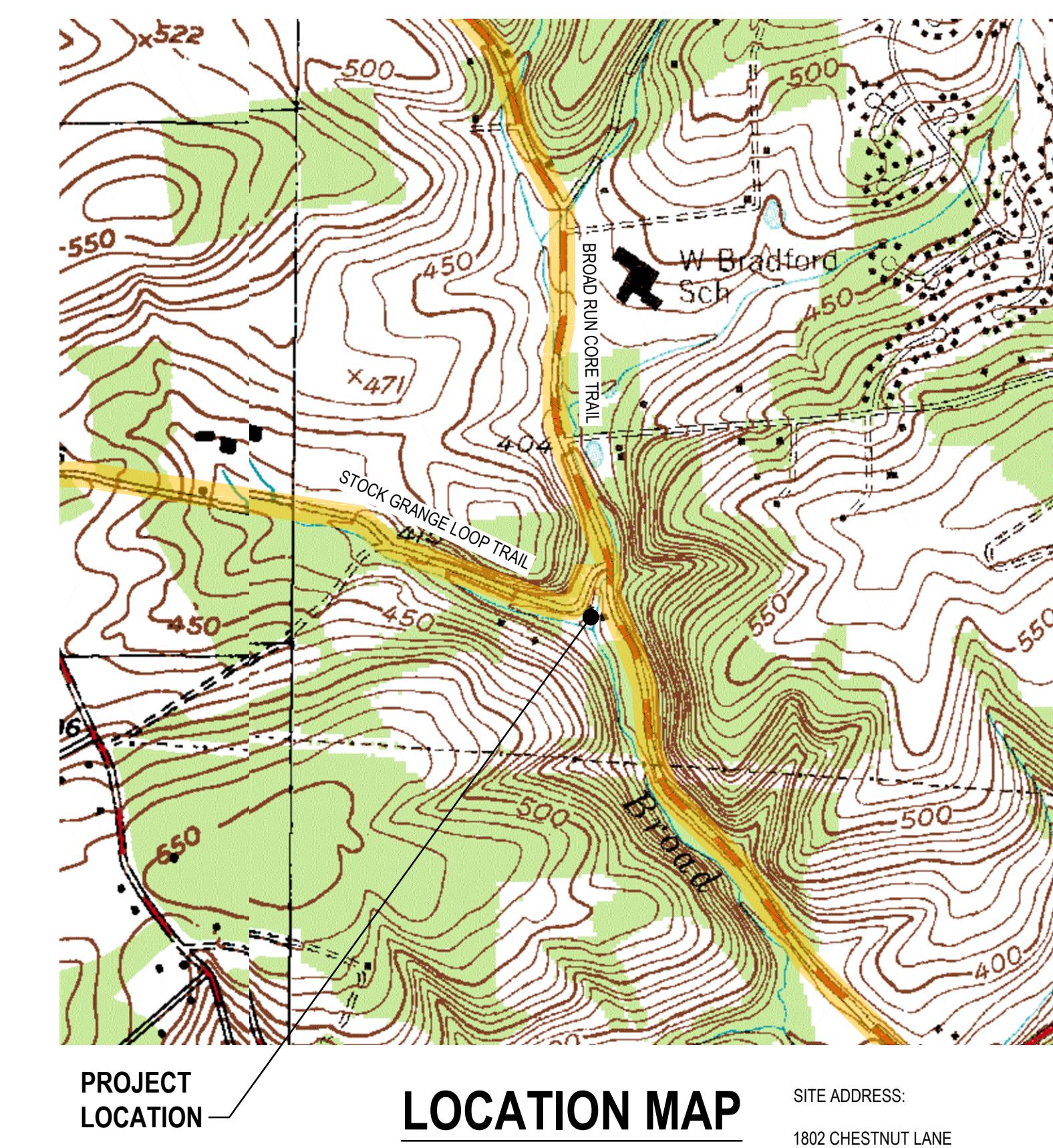
OWNER INFORMATION

COMMUNITY UTILITIES OF PA, INC. - BROAD RUN
ATTN: EMILY LONG PH (570) 213-1447
500 W MONROE STREET, SUITE 3600
CHICAGO, IL 60661
EMAIL: EMILY.LONG@UIWATER.COM

THE GHD PLANS ARE SUBMITTED IN ARCH D SIZE -
WHICH IS 24" BY 36". THE WEST BRADFORD TOWNSHIP
ORDINANCE REQUIRES ANSI D OR ANSI E.



AREA MAP



CALL BEFORE YOU DIG

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE
FOR CONSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE - STOP CALL

PENNSYLVANIA ONE CALL SYSTEM, INC.
1-800-242-1776 OR 811

POCS SERIAL NUMBER: 20222901874



UNDERGROUND UTILITIES ACT:

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE PENNSYLVANIA GENERAL ASSEMBLY UNDERGROUND UTILITY LINE
PROTECTION ACT, PA ACT 287 OF 1974, AS AMENDED BY ACT 50 OF 2017, 73 P.S. § 176 ET SEQ., FOR NOTIFICATION OF UTILITIES BEFORE
EXCAVATION IN THE CONTRACT AREA. THE ONE UNDERGROUND UTILITIES CALL NUMBER IS 800-242-1776 OR 811.

INDIVIDUAL LOCAL UTILITIES ARE AS FOLLOWS:

WEST BRADFORD TOWNSHIP OF
1385 CAMPUS DRIVE
DOWNTOWN, PA 19335
CONTACT: ALEX JARVIS
EMAIL: AJARVIS@WESTBRADFORD.ORG

COLUMBIA GAS TRANSMISSION ELLWOOD
1470 POORHOUSE ROAD
DOWNTOWN, PA 19335
CONTACT: TYLER CALDWELL
EMAIL: TYLER.CALDWELL@TCENERGY.COM

AQUA PENNSYLVANIA
762 LANCASTER AVE
BRYN MAWR, PA 19010
CONTACT: THOMAS WADDY
EMAIL: TBWADDY@AQUAAMERICA.COM

COMCAST
1004 CORNERSTONE BLVD
DOWNTOWN, PA 19335
CONTACT: TOM RUSSO
EMAIL: TOM_RUSSO@CABLE.COMCAST.COM

PECO AN EXELON COMPANY C/O USIC
450 S HENDERSON ROAD SUITE B
KING OF PRUSSIA, PA 19406
CONTACT: NIKKIA SIMPKINS
EMAIL: NIKKIASIMPINKS@USICLLC.COM

COMMUNITY UTILITIES OF PENNSYLVANIA
1201 SAWMILL RD
DOWNTOWN, PA 19335
CONTACT: PAUL THOMAS
EMAIL: PAUL.THOMAS@UIWATER.COM

A PRELIMINARY / FINAL LAND DEVELOPMENT PLAN			
No. Issue	JS	CA	4/04/2024
Author E. CAMACHO	Drafting Check M. Wiestling	Project Manager C. Amer	
Designer D. KNAPTON	Design Check	Project Director M. Bisignani	



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original size sheet
0 1"



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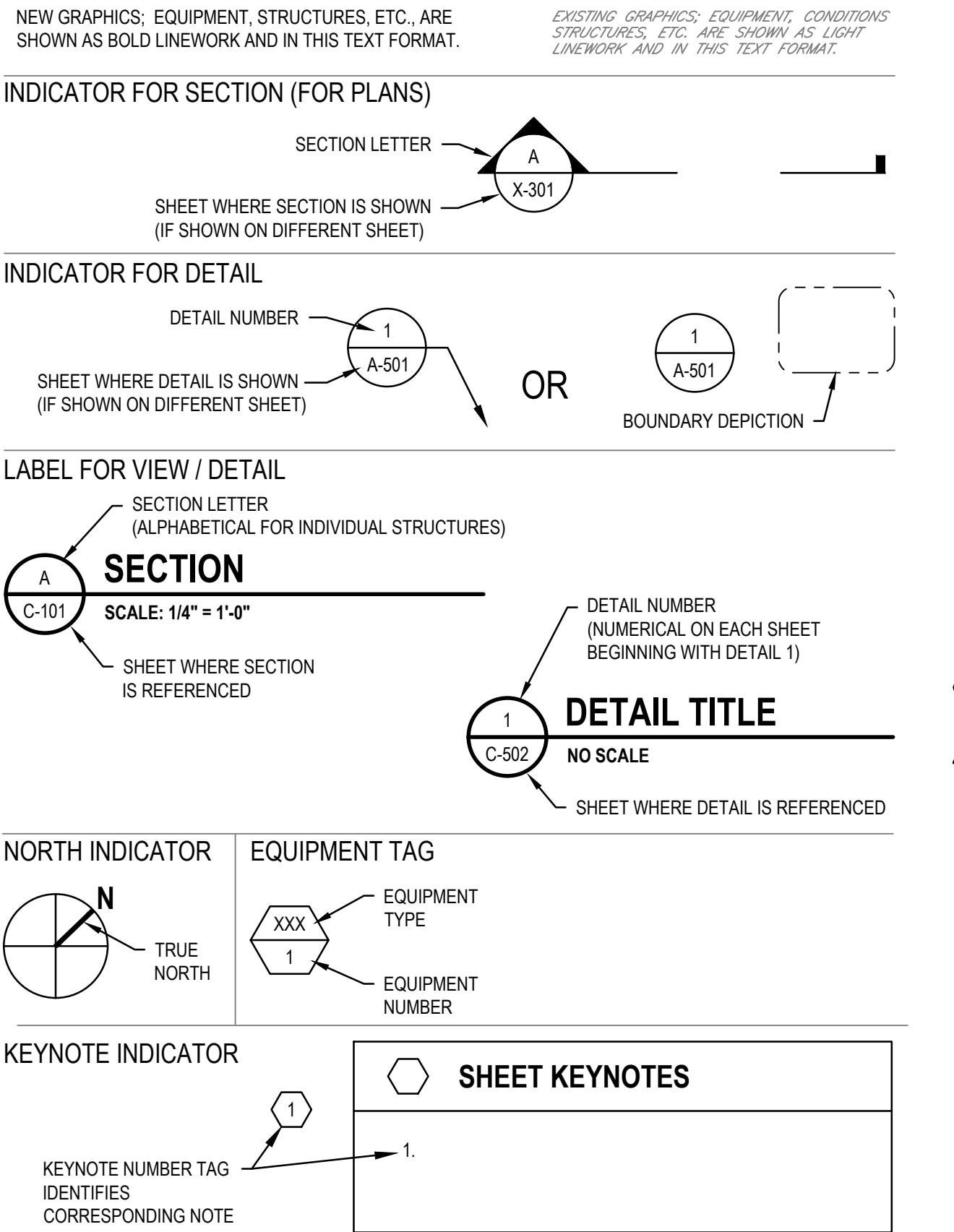
Client COMMUNITY UTILITIES OF
PENNSYLVANIA, INC.
Project CHESTNUT LANE PUMP STATION
IMPROVEMENTS

Title COVER SHEET
Sheet No. LD-001
Size ARCH D
Project No. 12562338 Date AS SHOWN
Scale

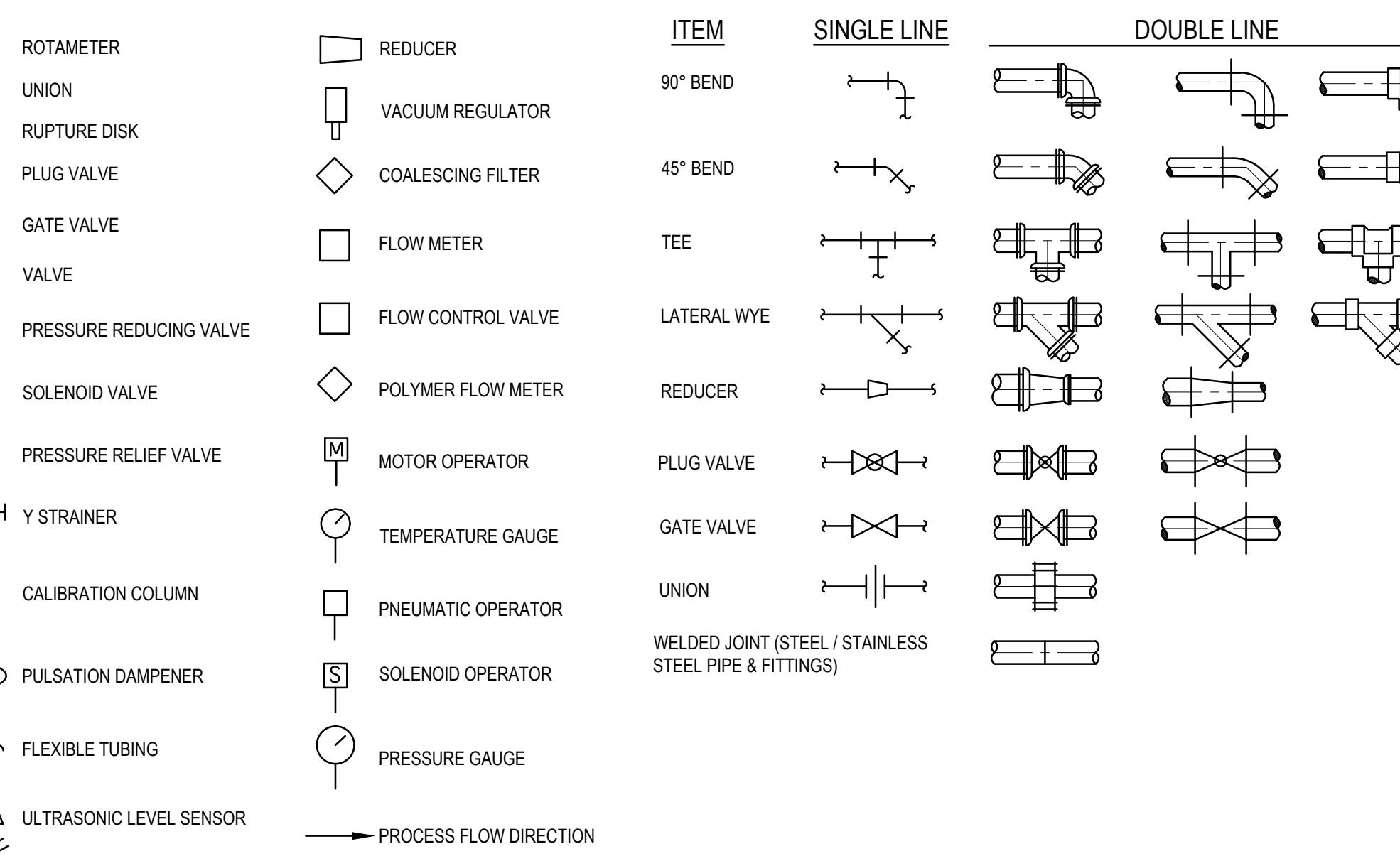
ABBREVIATIONS

ADD'L	ADDITIONAL	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	ID	INSIDE DIAMETER
ADJ	ADJUSTABLE	IF	INSIDE FACE
AGGR	AGGREGATE	INV	INVERT
ALLOW	ALLOWANCE	I/O	INPUT / OUTPUT
ALT	ALTERNATE	LL	LIVE LOAD
ALUM	ALUMINUM	LWL	LOW WATER LEVEL
ARCH	ARCHITECT OR ARCHITECTURAL	LF	LINEAR FEET
ASSY	ASSEMBLY	M	MOTOR
APPROX	APPROXIMATE	MGD	MILLION GALLONS PER DAY
BLDG	BUILDING	MJ	MANHOLE
BLK	BLOCK	MFR	MANUFACTURER
BOT or B	BOTTOM	MIN	MINIMUM
CF	CUBIC FEET	MISC	MISCELLANEOUS
CFM	CUBIC FEET PER MINUTE	NPT	NATIONAL PIPE THREAD
CI	CAST IRON	NTS	NOT TO SCALE
CIP	CAST IRON PIPE	OC	ON CENTER
CMP	CORRUGATED METAL PIPE	OD	OUTSIDE DIAMETER
CO	CLEANOUT	OF	OUTSIDE FACE
CONN	CONNECTION	OPNG	OPENING
CY	CUBIC YARD	PRV	PRESSURE RELIEF VALVE
CL	CLEAR	PSI	POUNDS PER SQUARE INCH
CONC	CENTER LINE	PVC	POLYVINYL CHLORIDE
CONT	CONCRETE	POLY / PE	POLYETHYLENE
CPVC	CONTINUOUS	R	PLATE, PROPERTY LINE
CL JT	CHLORINATED POLYVINYL CHLORIDE	REINF	RADIUS
DL	CONTROL JOINT	REQD	REINFORCING
DIA, Ø	DEAD LOAD	REQD	REQUIRED
DIP	DIA. Ø	REINFORCING	REQUIRED
DWL	DUCTILE IRON PIPE	REINFORCING	REQUIRED
EF	DOWEL	REQD	REQUIRED
EA	EACH FACE	REQD	REQUIRED
EL or ELEV	EACH	REQD	REQUIRED
ELEC	ELEVATION	SF	SQUARE FOOT
EQ	ELECTRIC	SS	STAINLESS STEEL
EX, EXIST	EQUAL	SCH	SCHEDULE
EXT	EXISTING	SPEC	SPECIFICATION
FD	EXTERIOR	SQ	SQUARE
FF	FLOOR DRAIN	STL	STEEL
FM	FAR FACE FINISHED FLOOR	STD	STANDARD
FLR	FORCE MAIN	SYM	SYMBOL
FT	FLOOR	TEL	TELEPHONE
FTG	FEET	TEMP	TEMPERATURE
G	FOOTING	TYP	TYPICAL
GPM	G	UV	ULTRAVIOLET
GA	NATURAL GAS	W	WATER
GAL	GALLONS PER MINUTE	WL	WATER LEVEL
GALV	GAUGE	W/O	WITHOUT
GC	GALVANIZED	WWF	WELDED WIRE FABRIC
HIDPE	GENERAL CONTRACTOR		
HWL	HIGH-DENSITY POLYURETHYLENE		
	HIGH WATER LEVEL		

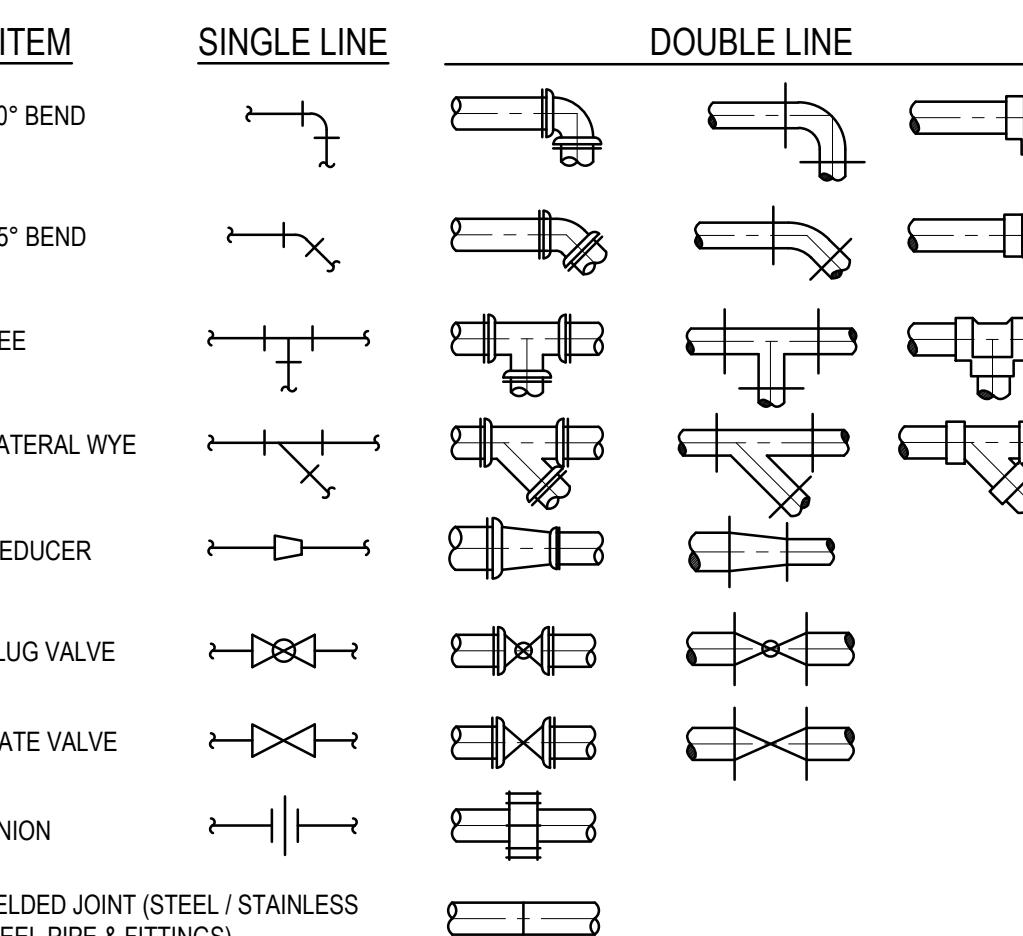
GENERAL LEGEND



SCHEMATIC SYMBOLS / LEGEND



PIPING LEGEND



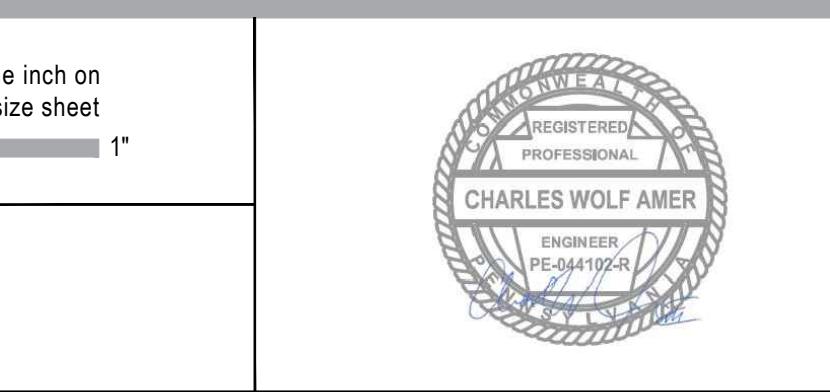
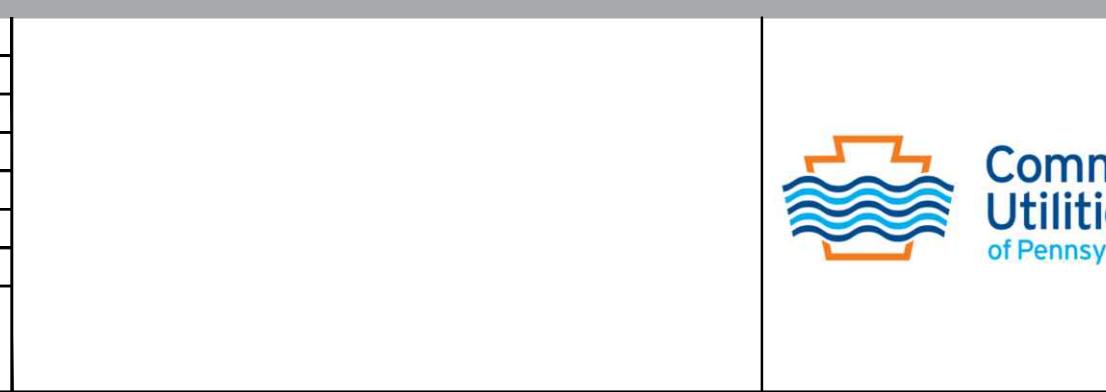
SHEET INDEX

SEQUENCE NUMBER	SHEET NUMBER	SHEET TITLE
GENERAL		
	G-001	COVERSHEET
	G-002	SHEET INDEX, GENERAL NOTES & LEGENDS
CIVIL		
	C-101	EXISTING SITE DEMOLITION PLAN
	C-102	SITE PLAN
	C-103	ADJOINING PROPERTIES PLAN
	C-201	SETBACKS
	C-401	DRIVeway SIGHT DISTANCE MEASUREMENTS PLAN
	C-501	CIVIL DETAILS 1
	C-502	CIVIL DETAILS 2
	C-503	CIVIL DETAILS 3
	CE-001	EROSION AND SEDIMENTATION CONTROL NOTES
	CE-101	EROSION AND SEDIMENTATION CONTROL SITE PLAN
	CE-501	EROSION AND SEDIMENTATION CONTROL DETAILS
PROCESS		
	D-101	PUMP STATION PLANS
	D-301	PUMP STATION SECTIONS
ELECTRICAL		
	E-501	ELECTRICAL DETAILS

GENERAL NOTES (APPLY TO ALL DRAWINGS)

- EXISTING FACILITIES AND PIPING SHOWN LIGHT. NEW FACILITIES AND PIPING SHOWN DARK.
- CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL EXISTING PIPING ELEVATIONS, LOCATIONS, SIZE AND TYPE OF MATERIAL WITH NEW PIPING PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL EXISTING EQUIPMENT DIMENSIONS AND ELEVATIONS, AS REQUIRED, PRIOR TO ORDERING NEW EQUIPMENT.
- CONTRACTOR SHALL COORDINATE ALL PIPING AND OTHER CONNECTIONS WITH THE APPROVED EQUIPMENT SHOP DRAWINGS.
- TOPOGRAPHIC DATA IS BASED ON DRAWING M8226BASE BY METZ ENGINEERS 410 DERSTINE AVE., PO BOX 647 LANSDALE, PA 19446-0608, DATED 06-27-2022. HORIZONTAL DATUM: NAD83 / VERTICAL DATUM: NAVD88
- ALL BURIED PIPING TO BE MIN. 4' BELOW GRADE, UNLESS OTHERWISE NOTED.
- FROM INVESTIGATIONS AND FIELD SURVEYS, IT IS ASSUMED THAT LOCATIONS OF PHYSICAL CONDITIONS, UTILITIES, ETC., ARE APPROXIMATE AND THE NATURE OF MATERIALS IS NOT GUARANTEED.
- THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL CONDITIONS AND DIMENSIONS ON THE JOB SITE BEFORE PROCEEDING WITH THE WORK AND SHALL MAKE MINOR ADJUSTMENTS AS REQUIRED ON THE JOB. SUCH ADJUSTMENTS ARE TO BE APPROVED BY THE ENGINEER AND THE OWNER.
- LOCATION AND DEPTH OF EXISTING UTILITY LINES SHALL BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE CONSTRUCTION. EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATING EXISTING UTILITY LINES. HAND EXCAVATION ONLY WILL BE PERMITTED IN THE VICINITY OF EXISTING PIPES AND/OR CONDUITS. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- ALL EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PENNSYLVANIA "EROSION AND SEDIMENTATION POLLUTION CONTROL MANUAL" AND THE EROSION AND SEDIMENTATION PLAN(S) PREPARED FOR THIS PROJECT.
- THE CONTRACTOR SHALL MAINTAIN A RECORD SET OF "AS BUILT" DRAWINGS ON THE PROJECT SITE. AT THE COMPLETION OF THE PROJECT, THESE DRAWINGS SHALL BE TURNED OVER TO THE ENGINEER AND OWNER. THESE DRAWINGS SHALL INDICATE, BUT NOT BE LIMITED TO, CHANGES IN PIPING, INSTALLATIONS, VALVES, EQUIPMENT CHANGES, ELECTRICAL WORK, ETC.
- DEMOLITION OF EXISTING PIPING AND EQUIPMENT MAY REQUIRE TEMPORARY SYSTEM SHUTDOWNS. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL SHUTDOWN PROCEDURES WITH ENGINEER AND OWNER PRIOR TO ANY DEMOLITION WORK. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TEMPORARY EQUIPMENT, MATERIAL AND CONTROLS TO MAINTAIN SYSTEM OPERATIONS DURING CONSTRUCTION AS REQUIRED. ALL SHUTDOWNS AND STARTUPS TO BE COORDINATED WITH OWNER/OPERATOR DURING CONSTRUCTION. ONLY OWNER'S PERSONNEL SHALL PERFORM SYSTEM OPERATIONS, INCLUDING OPERATIONS OF VALVES AND PUMPS.
- CONTRACTOR SHALL MAINTAIN SEWER FLOW AT ALL TIME DURING CONSTRUCTION. ALL BYPASS PIPING, CONNECTION, BULKHEADS, PLUGS, ETC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- LOCATION OF SURFACE AND SUBSURFACE UTILITIES ARE PLOTTED FROM AS-BUILT DRAWINGS AND FROM ONE CALL INFORMATION, THOSE THAT WERE VISIBLE IN THE FIELD, WERE LOCATED AND MEASURED.
- PROPERTY SITES DO NOT INCLUDE A BOUNDARY RETRACEMENT.
- SITE EASEMENTS WERE RETRACED USING DOCUMENTATION PROVIDED BY THE CLIENT, ALONG WITH VERIFICATION OF MONUMENTATION USING CONVENTIONAL SURVEY PRACTICES.
- ALL PROPERTY SURVEY PINS AND / OR STAKES MOVED, DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR'S PROFESSIONAL SURVEYOR.
- ALL PIPE AND MANHOLES SHALL BE TESTED IN ACCORDANCE WITH SPECIFICATIONS.
- BRACING / SHORING OF EXISTING UTILITY POLES IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO COORDINATE AND PAY FOR BRACING / SHORING OF UTILITY POLES WITH UTILITY OWNER.
- PRIOR TO START OF WORK, CONTRACTOR TO COORDINATE AND HOLD EXISTING UTILITY PRE-CONSTRUCTION MEETING TO BE ATTENDED BY: OWNER, ENGINEER, CONTRACTOR AND UTILITY OWNERS WITHIN THE PROJECT AREA
- TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH PENNDOT PUB 213 AND ANY ROAD / CURB CUT PERMITS OBTAINED FOR THIS PROJECT
- TEMPORARY END CAPS WILL BE REQUIRED FOR TESTING UP TO TIE-IN LOCATIONS
- ACCESS TO CHESTNUT LANE PUMP STATION SHALL BE FROM CHESTNUT LANE.
- WEST BRADFORD TOWNSHIP SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION OR MAINTENANCE OF THE PROPOSED IMPROVEMENTS.
- THE ALTERATION AND/OR REMOVAL OF PERMANENT DRAINAGE SWALES OR STORMWATER MANAGEMENT FACILITIES ARE PROHIBITED.
- THE OVERALL CONSTRUCTION SCHEDULE IS ESTIMATED TO BE SIX (6) MONTHS. SITE RESTORATION SHALL TAKE APPROXIMATELY ONE (1) WEEK. CONSTRUCTION MAY START SUMMER 2024.
- THE OWNER GRANTS A BLANKET EASEMENT FOR THE ENTIRE PROPERTY TO WEST BRADFORD TOWNSHIP FOR THE PURPOSE OF A DRAINAGE EASEMENT AND FOR MAINTAINING THE STORMWATER MANAGEMENT FACILITIES, INCLUDING THE INFILTRATION TRENCH, IN THE EVENT THAT THE OWNER DOES NOT PROPERLY MAINTAIN SUCH FACILITIES.
- THE OWNER SHALL GRANT WEST BRADFORD TOWNSHIP A 13.5-FOOT-WIDE EASEMENT PARALLEL TO BROAD RUN ROAD FOR THE BROAD RUN CORE TRAIL.

A PRELIMINARY / FINAL LAND DEVELOPMENT PLAN			
No.	Issue	JS	CA
Author	E. CAMACHO	Drafting Check	M. Wiestling
Designer	D. KNAPTON	Design Check	Project Manager C. AMER

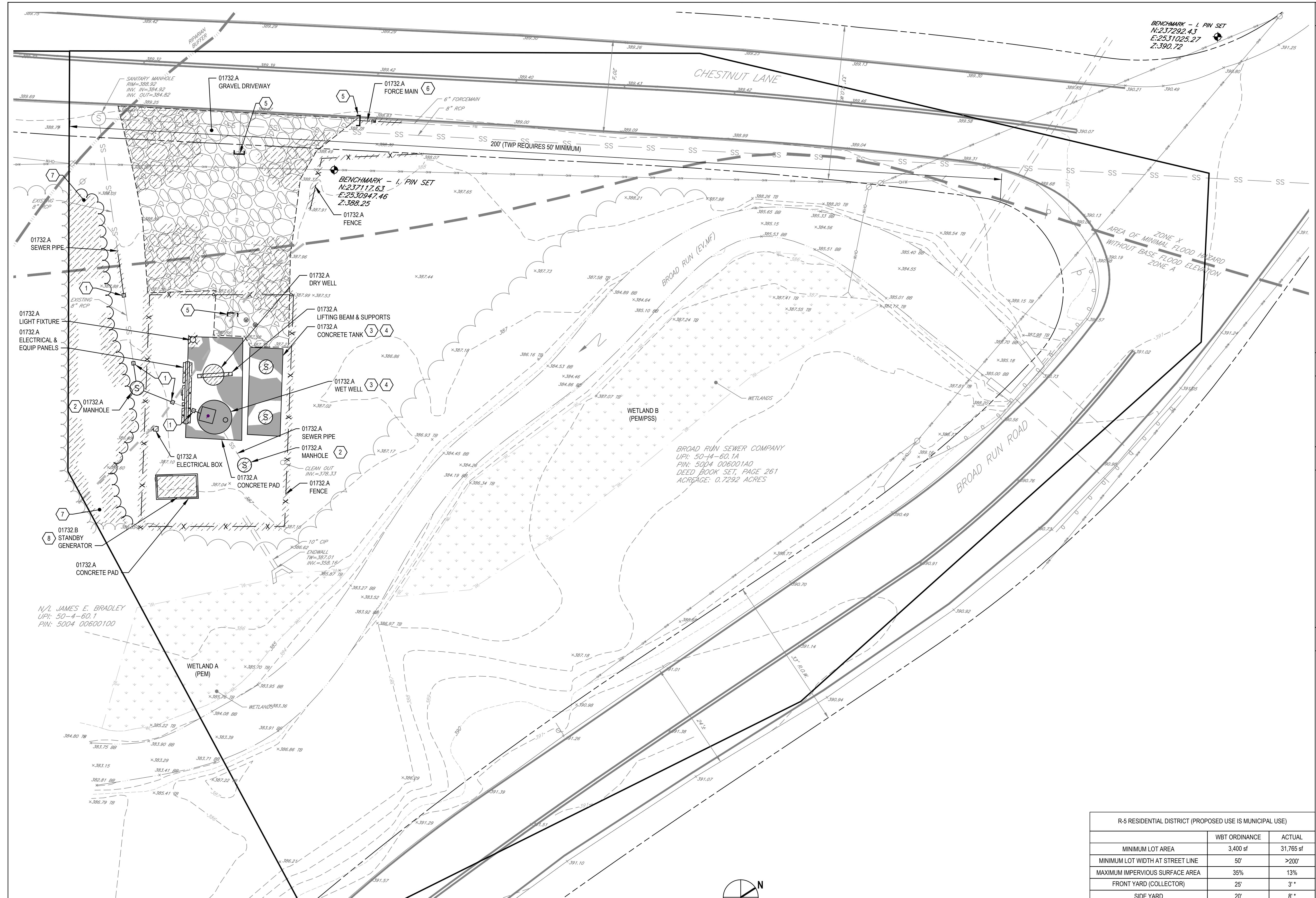


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Client COMMUNITY UTILITIES OF PENNSYLVANIA, INC.
Project CHESTNUT LANE PUMP STATION IMPROVEMENTS
Project No. 12562338 Date 04/04/2024 Scale AS SHOWN

Title SHEET INDEX, GENERAL NOTES AND LEGENDS
Size ARCH D
Sheet No. G-002



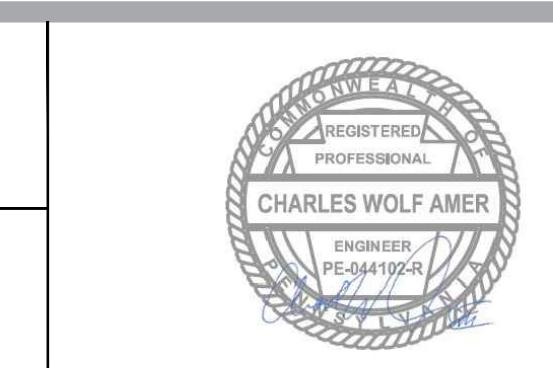
A. PRELIMINARY / FINAL LAND DEVELOPMENT PLAN					
No.	Issue	JS	CA	4/02/2024	
Author	S. MATTHEWS	Drafting Check	M. WIESLING	Project Manager	C. AMER
Designer	D. KNAPTON	Design Check		Project Director	M. BISIGNANI



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of Pennsylvania

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Client: **COMMUNITY UTILITIES OF PENNSYLVANIA, INC.**
Project: **CHESTNUT LANE PUMP STATION IMPROVEMENTS**

Project No.

Date

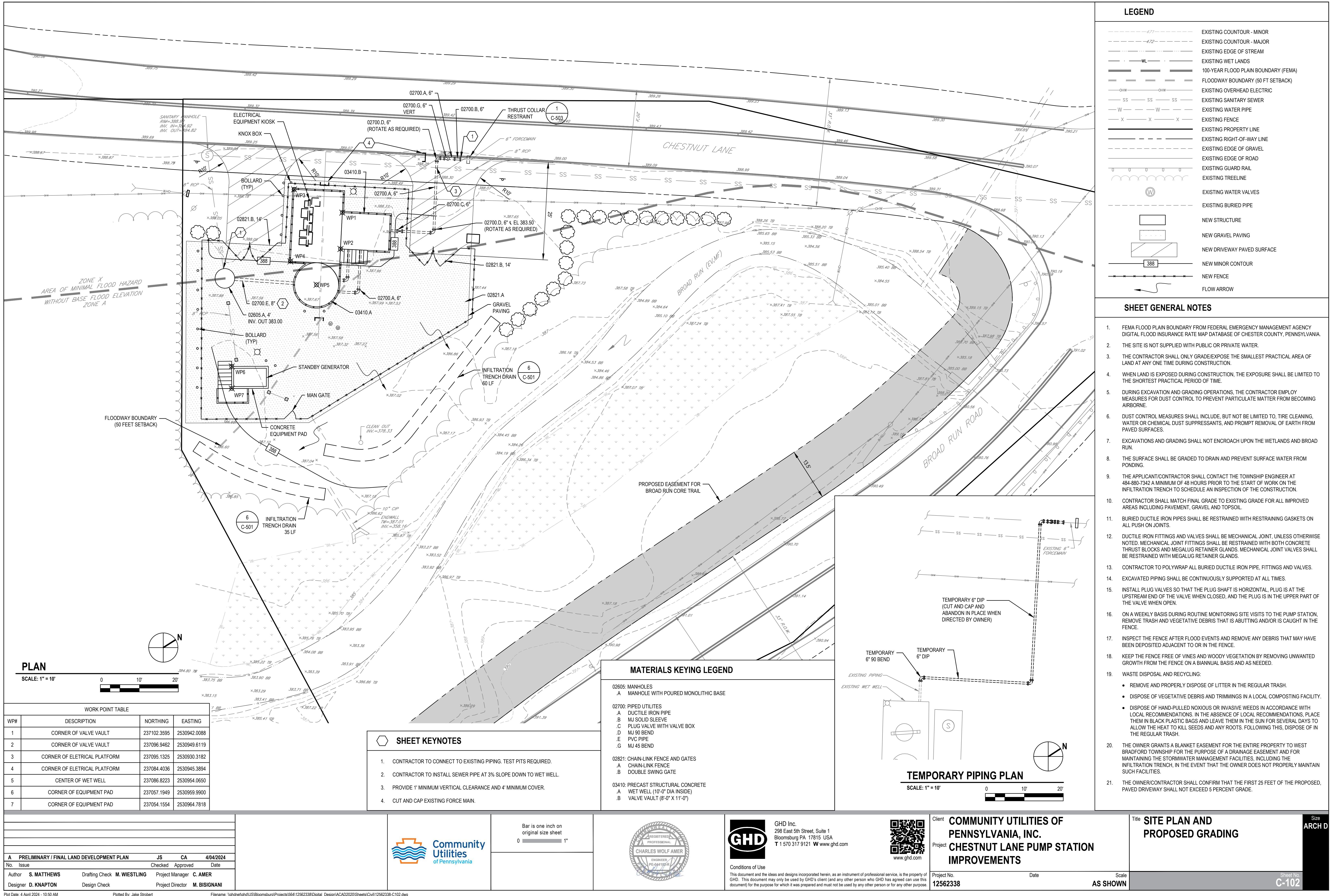
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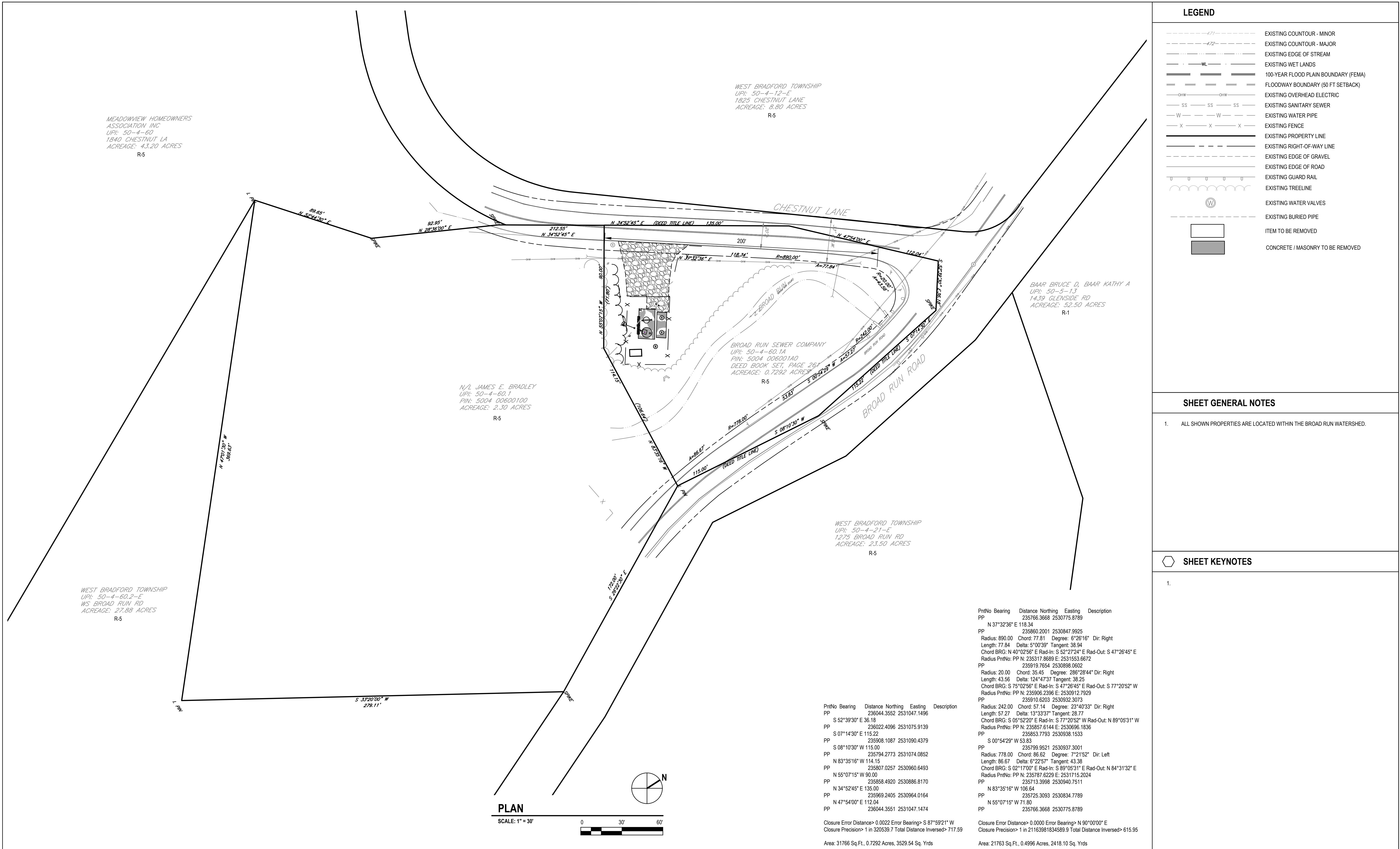
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Title: **EXISTING SITE DEMOLITION PLAN**

Size: **ARCH D**

Sheet No.: **C-101**

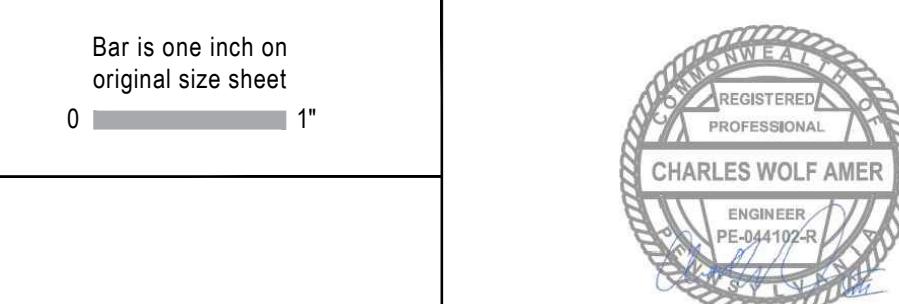




A PRELIMINARY / FINAL LAND DEVELOPMENT PLAN			
No. Issue	JS	CA	4/04/2024
Author S. MATTHEWS	Drafting Check M. WIESTLING	Project Manager C. AMER	
Designer D. KNAPTON	Design Check	Project Director M. BISIGNANI	



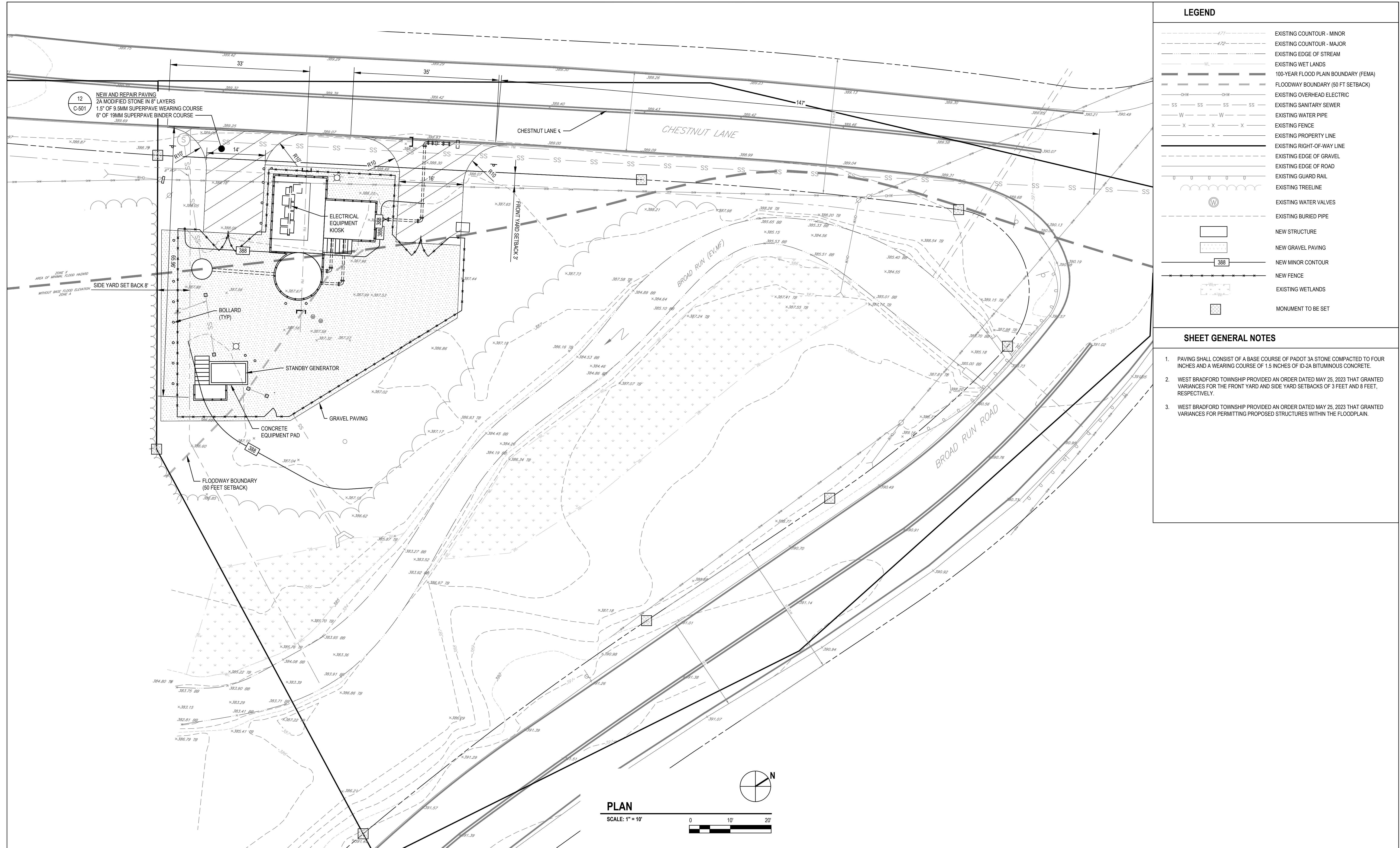
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ADJOINING PROPERTIES PLAN		
Size ARCH D	Sheet No. C-103	



A PRELIMINARY / FINAL LAND DEVELOPMENT PLAN			
No.	Issue	JS	CA
Author	S. MATTHEWS	Drafting Check	M. WIESTLING
Designer	D. KNAPTON	Design Check	Project Manager C. AMER



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Project **CHESTNUT LANE PUMP STATION IMPROVEMENTS**

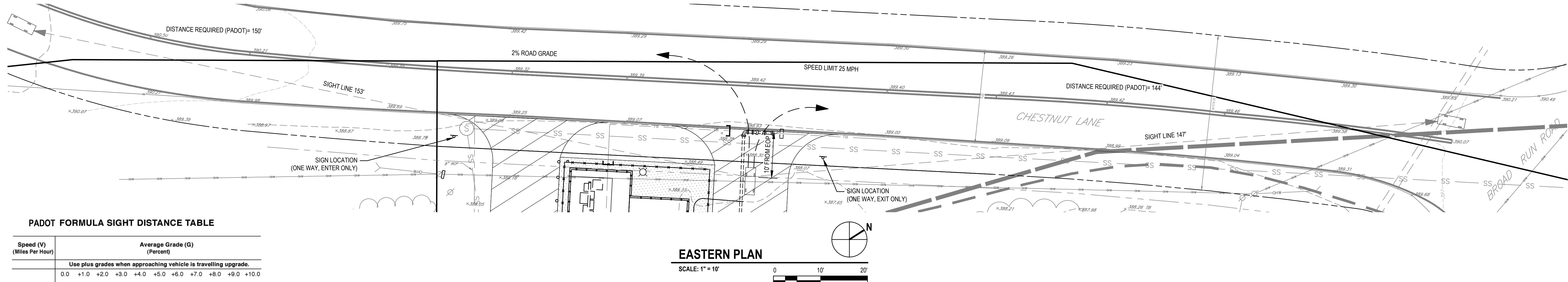
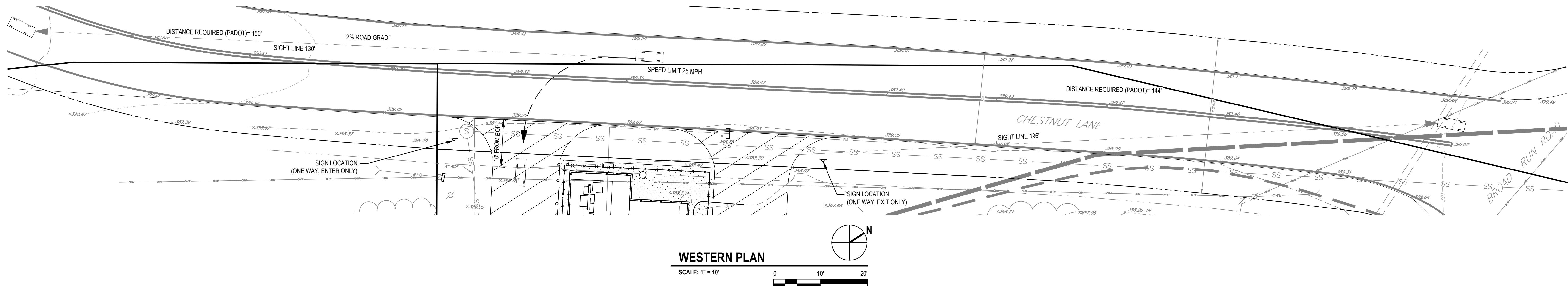
Title **SETBACKS**
Sheet No. **C-201**

Project No.
12562338

Date

Scale

AS SHOWN



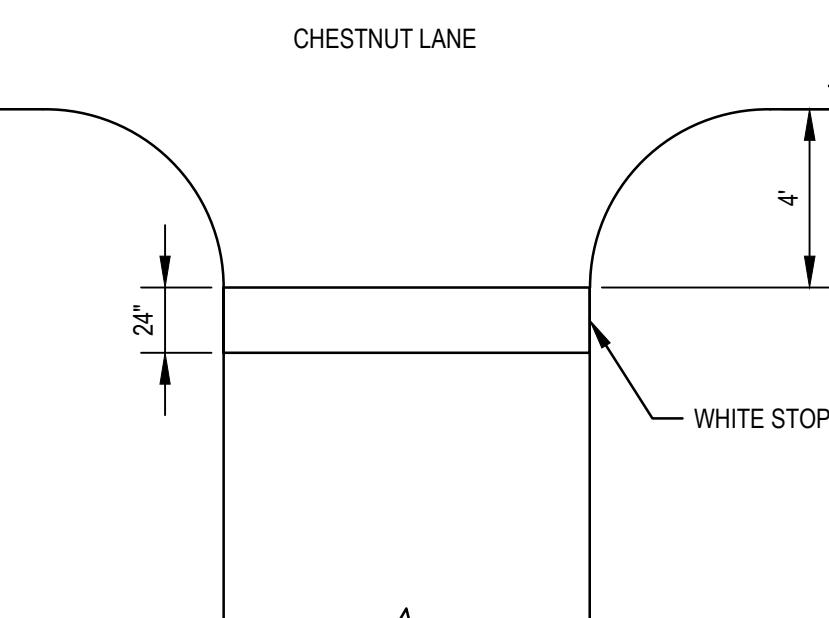
PADOT FORMULA SIGHT DISTANCE TABLE												
Speed (V) (Miles Per Hour)	Average Grade (G) (Percent)											
	Use plus grades when approaching vehicle is travelling upgrade.											
	0.0	+1.0	+2.0	+3.0	+4.0	+5.0	+6.0	+7.0	+8.0	+9.0	+10.0	
25	147	145	144	143	142	140	139	138	137	136	135	
30	196	194	191	189	187	185	183	182	180	178	177	
35	249	245	242	239	236	233	231	228	226	224	221	
40	314	309	304	299	295	291	287	284	280	277	274	
45	383	376	370	364	358	353	348	343	339	334	330	
50	462	453	444	436	429	422	415	409	403	397	392	
55	538	527	517	508	499	490	482	475	468	461	454	
	Use negative grades when approaching vehicle is travelling downgrade.											
	0.0	-1.0	-2.0	-3.0	-4.0	-5.0	-6.0	-7.0	-8.0	-9.0	-10.0	
25	147	148	150	151	153	155	157	159	161	164	166	
30	196	199	201	204	207	210	214	217	221	226	230	
35	249	252	256	260	265	269	275	280	286	292	299	
40	314	319	325	331	338	345	352	360	369	379	389	
45	383	390	398	406	415	425	435	447	459	472	487	
50	462	471	481	492	504	517	531	546	563	581	600	
55	538	550	562	576	590	606	622	641	661	682	706	



NOTE : SIGNS SHALL BE 18" x 24" IN SIZE

EASTERN PL.

SCALE: 1" = 10'



EASTERN DRIVEWAY

SCALE: NO SCALE

SHEET GENERAL NOTES

1. NO BUILDING OR OBSTRUCTION THAT WOULD OBSCURE THE VISION OF A MOTORIST SHALL BE PERMITTED WITHIN THE CLEAR SIGHT TRIANGLES.
2. THE OWNER SHALL INSTALL SIGNS ("ONE-WAY" AND "DO NOT ENTER") AND PAVEMENT MARKINGS (ARROWS AND STOP BARS) AT EACH DRIVEWAY ENTRANCE FOR THE ONE-WAY DRIVEWAY OPERATION.

A PRELIMINARY / FINAL LAND DEVELOPMENT PLAN		JS	CA	4/04/2024
No.	Issue	Checked	Approved	Date
Author	S. MATTHEWS	Drafting Check	M. WIESTLING	Project Manager
Designer	D. KNARTON	Design Check		Project Director



communities
sylvania

B3
C9



CHARLES WOLF AMER
PE-044102-R

The logo for GHI (Global Health Initiatives) is located in the bottom right corner. It consists of the letters "GHI" in a bold, white, sans-serif font, enclosed within a thick, white, horizontal oval border. The entire logo is set against a black background.

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T 1 570 317 9121 **W** www.ghd.com

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**Client COMMUNITY UTILITIES OF
PENNSYLVANIA, INC.**

**Project CHESTNUT LANE PUMP STATION
IMPROVEMENTS**

e DRIVEWAY SIGHT DISTANCE MEASUREMENTS PLAN

Size
ARCH D

1

NOTES AND SEQUENCE OF CONSTRUCTION

1. REMOVAL OF EXISTING GROUND COVER, SITE DEVELOPMENT, AND FINAL STABILIZATION OF THE SITE WILL BE PERFORMED WITHIN THE LOD.
2. CONTRACTOR SHALL ADD MARKINGS (STAKES, FENCING, ETC.) TO DELINEATE THE LIMITS OF DISTURBANCE (LOD), THE COMPOST FILTER SOCKS, AND THE ROCK CONSTRUCTION ENTRANCE.
3. ALL TEMPORARY AND PERMANENT CONTROL MEASURES WILL BE INSTALLED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE "EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL," PUBLISHED BY PADEP, BUREAU OF SOIL AND WATER CONSERVATION.
4. THE OVERALL CONSTRUCTION SCHEDULE IS ESTIMATED TO BE APPROXIMATELY 6 MONTHS. SITE RESTORATION SHALL TAKE APPROXIMATELY ONE WEEK. IT IS ANTICIPATED THAT CONSTRUCTION MAY START DURING THE SUMMER 2024.
5. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT (800) 242-1776 FOR BURIED UTILITY LOCATIONS.
6. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE CONSERVATION DISTRICT.
7. BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENTATION CONTROL FEATURES, THE CONTRACTOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE TOWNSHIP AND/OR THE CONSERVATION DISTRICT.
8. BEFORE DISPOSING OF SOIL, THE CONTRACTOR MUST ASSURE THAT EACH SPOIL AREA HAS AN APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, WHICH WAS DEVELOPED IN ACCORDANCE WITH PADEP CHAPTER 102 REGULATIONS.
9. THE CONTRACTOR SHALL ESTABLISH BYPASS PUMPING BEFORE DEMOLISHING THE EXISTING STRUCTURES.
10. THE CONTRACTOR SHALL REMOVE FROM SITE, RECYCLE OR DISPOSE OF ALL MATERIALS AND WASTES IN ACCORDANCE WITH PADEP'S SOLID WASTE MANAGEMENT REGULATIONS AT PA CODE 260.1 ET. SEQ. AND 267.1 ET. SEQ. THE CONTRACTOR SHALL NOT BURY, DUMP OR DISCHARGE ANY WASTES AT THE SITE.
11. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
12. THE CONTRACTOR SHALL TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO THE APPROPRIATE UTILITY COMPANY STANDARDS, AND AT THE CONTRACTOR'S EXPENSE.
13. ALL UTILITY DISCONNECTION, REMOVAL, RELOCATION, CUTTING, CAPPING, AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
14. THE BURNING OF CLEARED MATERIAL AND DEBRIS, SHALL NOT BE ALLOWED.
15. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AND SHALL FUNCTION PROPERLY PRIOR TO INITIALIZATION OF DEMOLITION ACTIVITIES.
16. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS DURING ALL DEMOLITION ACTIVITIES.
17. NO TREES SHALL BE REMOVED, NOR VEGETATION DISTURBED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE TOWNSHIP.
18. TREE PROTECTION FENCING SHALL BE INSTALLED. DO NOT OPERATE OR STORE EQUIPMENT, NOR HANDLE OR STORE MATERIALS WITHIN THE DRIP LINES OF THE TREES.
19. CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY DEMOLITION.
20. THE CONTRACTOR SHALL CLEAN CHESTNUT LANE FREE OF DIRT AND MUD. A STREET SWEEPER WITH WATER APPLICATION SHALL BE USED TO ACHIEVE CLEAN ASPHALT.
21. INSTALL ROCK CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS.
22. THE CONTRACTOR SHALL PROTECT THE INFILTRATION TRENCHES FROM COMPACTION DURING CONSTRUCTION.
23. INITIAL CLEARING SHALL BE LIMITED TO THAT WHICH IS NECESSARY TO INSTALL PERIMETER BMPs.
24. INSTALL COMPOST FILTER SOCKS AND ALL OTHER PERIMETER EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE PROJECT AREA AS INDICATED ON THE DRAWINGS.
25. FINISH CLEARING AND GRUBBING.
26. TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
27. INSTALL ANY REMAINING EROSION AND SEDIMENTATION CONTROL MEASURES.
28. TEMPORARY SEED AND MULCH ANY DISTURBED AREA WITHIN TWO DAYS MAXIMUM. DO NOT TEMPORARY SEED ANY ACCESSES BEING USED.
29. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
30. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED OR AS NECESSARY FOR CONSTRUCTION.
31. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN, HEREON, ARE BASED ON TOPOGRAPHIC SURVEY. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO AN EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN, HERON, IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
32. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES, SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS.

OPERATION AND MAINTENANCE OF INFILTRATION TRENCHES

1. MAINTENANCE OF THE INFILTRATION TRENCHES SHALL BE INTEGRATED INTO ROUTINE MAINTENANCE OF THE PUMP STATION.
2. PREVENT THE BUILDUP OF A LEAF MAT, THICK GRASS CLIPPINGS, BRUSH, DEBRIS, ETC. ON THE TOP OF THE INFILTRATION TRENCHES.
3. IF THE INFILTRATION TRENCHES DO NOT APPEAR TO BE OPERATING PROPERLY, FIRST NOTIFY THE TOWNSHIP. IF ACCEPTABLE TO THE TOWNSHIP, REPLACE THE STONE AND RECONSTRUCT THE INFILTRATION TRENCHES.
4. ENSURE THAT THE DRAINAGE INFLOW TO THE INFILTRATION TRENCHES ARE CLEAR OF LEAVES AND DEBRIS.
5. DO NOT PLANT TREES OR BUSHES NEAR OR ON TOP OF THE INFILTRATION TRENCHES.
6. PERFORM ROUTINE INSPECTIONS, ESPECIALLY AFTER STORM EVENTS, TO VERIFY PROPER OPERATION.
7. NO ALTERATION OF THE STORMWATER TRENCHES CAN OCCUR UNLESS SUCH APPROVAL BY THE TOWNSHIP IS PROVIDED IN WRITING.

A PRELIMINARY / FINAL LAND DEVELOPMENT PLAN			
No.	Issue	JS	CA
		4/04/2024	
Author	E. CAMACHO	Drafting Check	M. WIESTLING
Designer	A. STANK	Design Check	Project Manager C. AMER
			Project Director M. BISIGNANI



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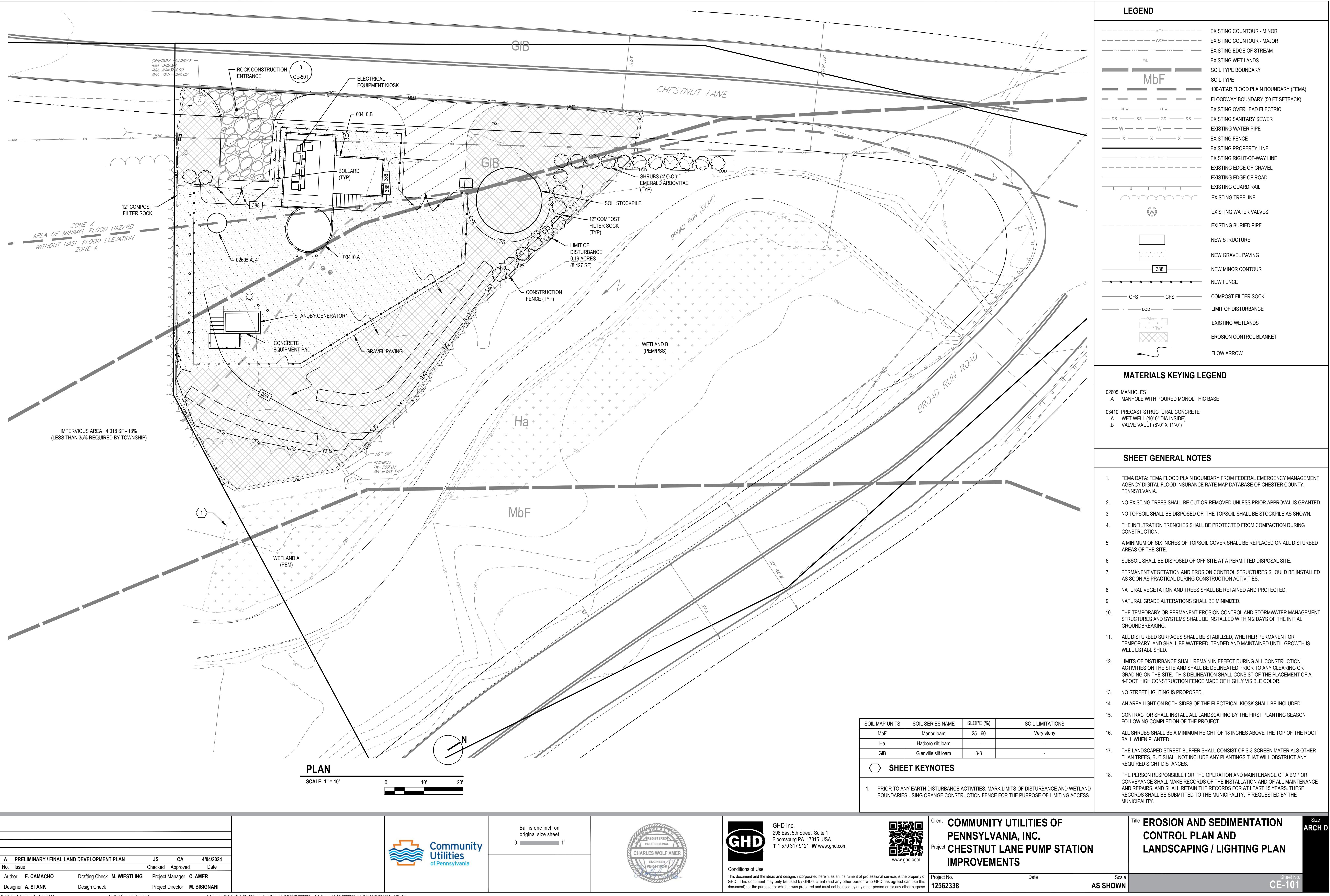


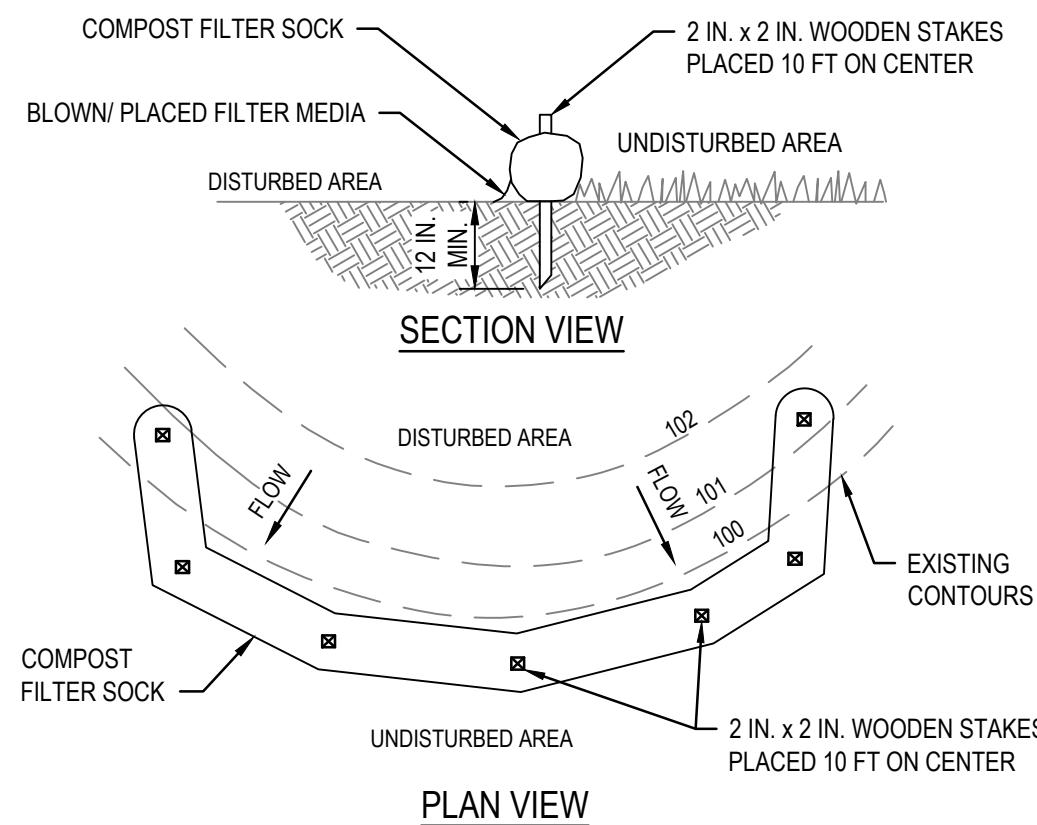
Client COMMUNITY UTILITIES OF
PENNSYLVANIA, INC.
Project CHESTNUT LANE PUMP STATION
Improvements

Project No. 12562338
Date
Scale

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Title EROSION AND SEDIMENTATION
CONTROL
NOTES AND SEQUENCE OF
CONSTRUCTION

Sheet No. CE-001





NOTES:

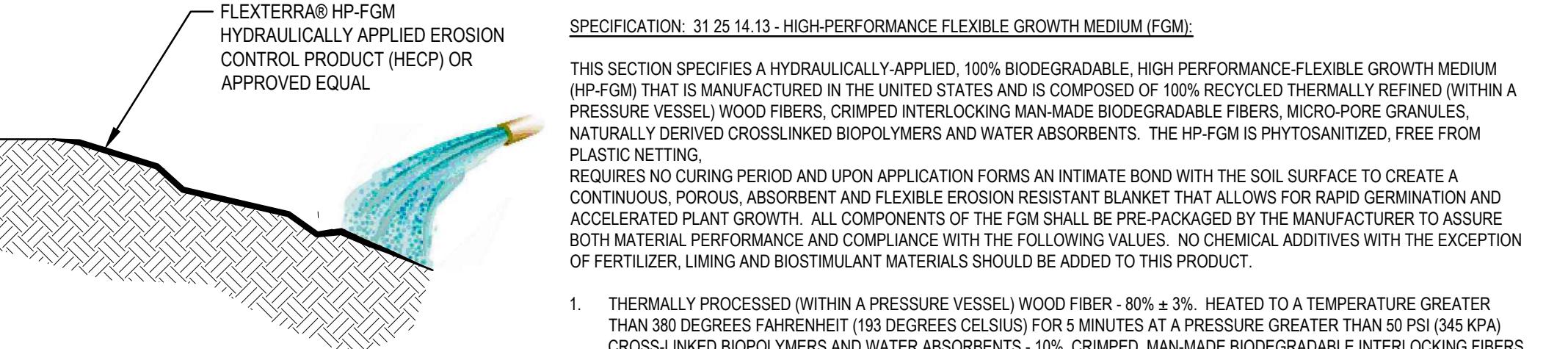
- SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 4.2. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURE. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- 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.
- BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IF LEFT IN PLACE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

Table 4.1 COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS				
Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-filament Polypropylene (MPPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable
Sock Diameters	12"	12"	12"	12"
	18"	18"	18"	18"
	24"	24"	24"	24"
	32"	32"	32"	32"
Mesh Opening	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year
				2 years
Two-ply systems				
Inner Containment Netting	HDPE biaxial net			
	Continuously wound			
	Fusion-welded junctures			
Outer Filtration Mesh	3/4" x 3/4" Max. aperture size			
	Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch)			
	3/16" Max. aperture size			
Sock fabrics composed of burlap may be used on projects lasting 6 months or less.				

Table 4.2 COMPOST STANDARDS	
ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30% - 50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM

1 COMPOST FILTER SOCK DETAIL

SCALE: NTS



SECTION:

STRICTLY COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. USE APPROVED HYDRO-SPRAYING MACHINES WITH FAN-TYPE NOZZLE (50-DEGREE TIP). TO ACHIEVE 100% SLOPE SURFACE COVERAGE, APPROXIMATELY 100% CLOVER SLOPE INTERRUPTIONS OR WATER DIVERSION TECHNIQUES ARE RECOMMENDED WHEN SLOPE LENGTHS EXCEED 100 FEET (30 M). MAXIMUM SLOPE LENGTH IS FOR PRODUCT APPLICATIONS ON A SHALLOW SLOPE. FOR APPLICATION ON STEEP SLOPES, SLOPE INTERRUPTION LENGTHS MAY NEED TO BE DECREASED BASED ON ACTUAL SITE CONDITIONS. NOT RECOMMENDED FOR CHANNELS OR AREAS WITH CONCENTRATED WATER FLOW. NO CHEMICAL ADDITIVES WITH THE EXCEPTION OF FERTILIZER, LIMING AND BIOSTIMULANT MATERIALS SHOULD BE ADDED TO THIS PRODUCT. TO ENSURE PROPER APPLICATION RATES, MEASURE AND STAKE AREA. FOR MAXIMUM PERFORMANCE, APPLY HP-FGM IN A TWO-STEP PROCESS AS FOLLOWS:

STEP ONE: APPLY FERTILIZER WITH SPECIFIED PRESCRIPTIVE AGRONOMIC FORMULATIONS AND 50% OF SEED WITH A SMALL AMOUNT OF HP-FGM FOR VISUAL METERING.

STEP TWO: MIX BALANCE OF SEED AND APPLY HP-FGM AT A RATE OF 50 LB PER 125 GALLONS (23 KG / 475 LITERS) OF WATER OVER FRESHLY SEDED SURFACES. CONFIRM LOADING RATES WITH EQUIPMENT MANUFACTURER. DO NOT LEAVE SEDED SURFACES UNPROTECTED ESPECIALLY IF PRECIPITATION IS IMMINENT.

APPLICATION RATES: THESE APPLICATION RATES ARE FOR STANDARD CONDITIONS. DESIGNERS MAY WISH TO REDUCE RATES TO ENCOURAGE FASTER VEGETATION ESTABLISHMENT OR MAY NEED TO INCREASE APPLICATION RATES ON ROUGH SURFACES. CONSULT APPLICATION AND LOADING CHARTS TO DETERMINE NUMBER OF BAGS TO BE ADDED FOR DESIRED AREA AND APPLICATION RATE.

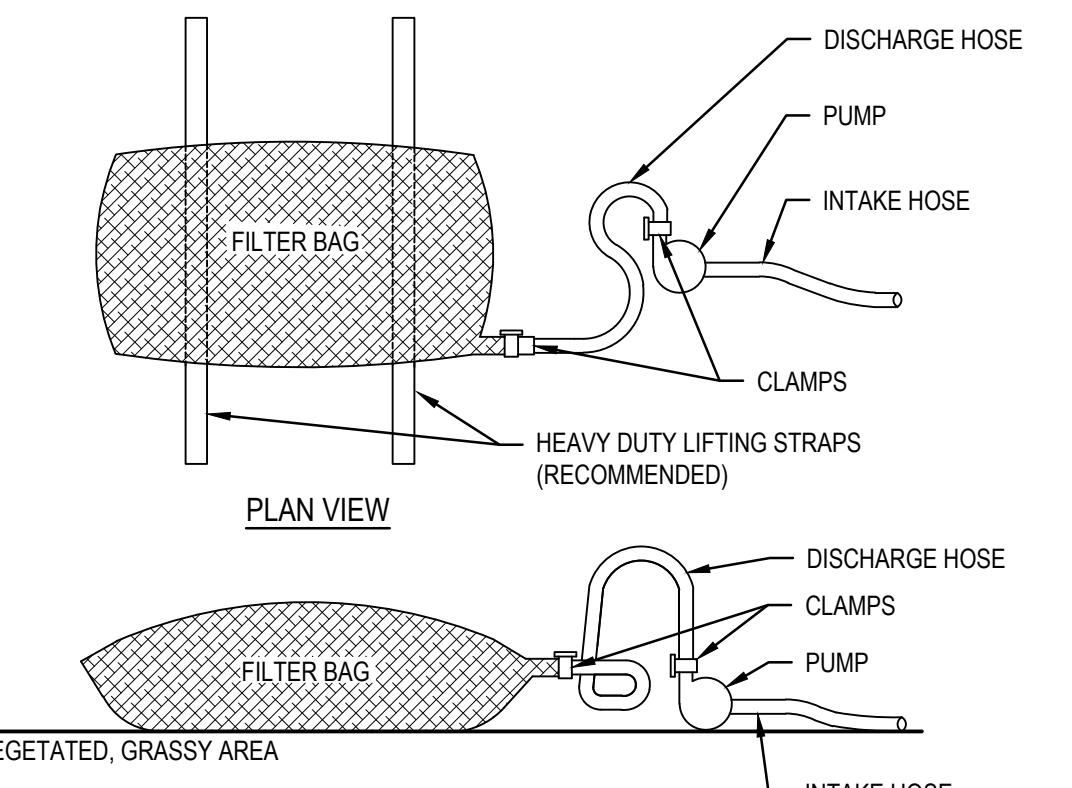
SLOPE GRADIENT / CONDITION	ENGLISH	SI
≤ 4H TO 1V	2500 LB / AC	2800 KG / HA
> 4H TO 1V AND ≤ 3H TO 1V	3000 LB / AC	3400 KG / HA
> 3H TO 1V AND ≤ 2H TO 1V	3500 LB / AC	3900 KG / HA
> 2H TO 1V AND ≤ 1H TO 1V	4000 LB / AC	4500 KG / HA
> 1H TO 1V	4500 LB / AC	5100 KG / HA
BELOW ECB OR TRM	1500 LB / AC	1700 KG / HA
AS INFILL FOR TRM	3500 LB / AC	3900 KG / HA

Flexterra

SEE COMPREHENSIVE CSI FORMATTED SPECIFICATION FOR FURTHER DETAILS

2 EROSION CONTROL BLANKET DETAIL (HYDRAULICALLY-APPLIED)

SCALE: NTS



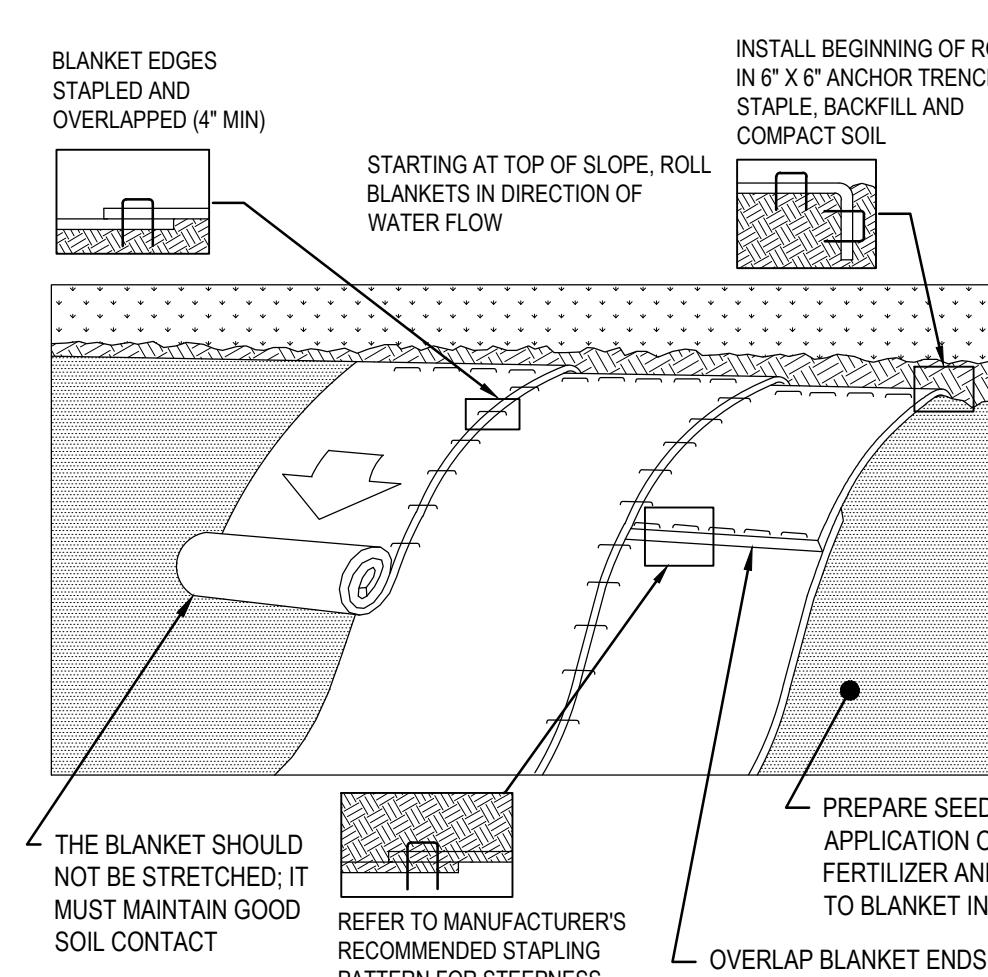
NOTES:

- 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.
- THE FOLLOWING GUIDELINES SHALL BE APPLIED WHERE BLANKET BECOMES NECESSARY BUT IS NOT SPECIFIED.

SLOPES	EROSION CONTROL BLANKET
≤3:1	NAG S75BN, East Coast ECS-1B or approved equal
≤2:1	NAG S150BN, East Coast ECS-2B or approved equal
1:1	NAG SC150BN, East Coast ECS-2B or approved equal
	NAG = North American Green EC = East Coast Erosion Control

4 EROSION CONTROL BLANKET DETAIL (ROLLED INSTALLATION)

SCALE: NTS



5 PUMPED WATER FILTER BAG DETAIL

SCALE: NTS

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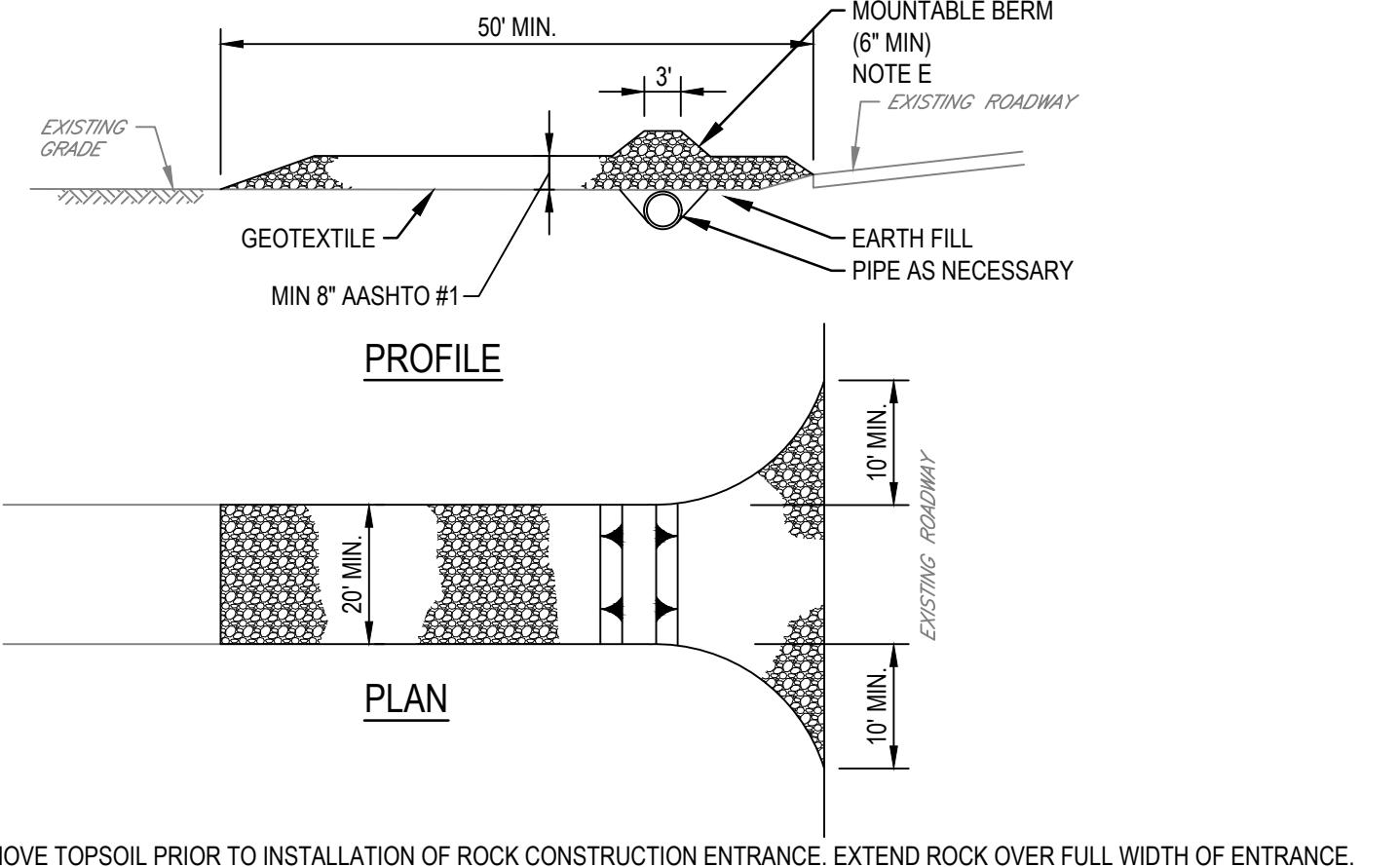


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Project **CHESTNUT LANE PUMP STATION IMPROVEMENTS**
Project No. **12562338** Date Scale

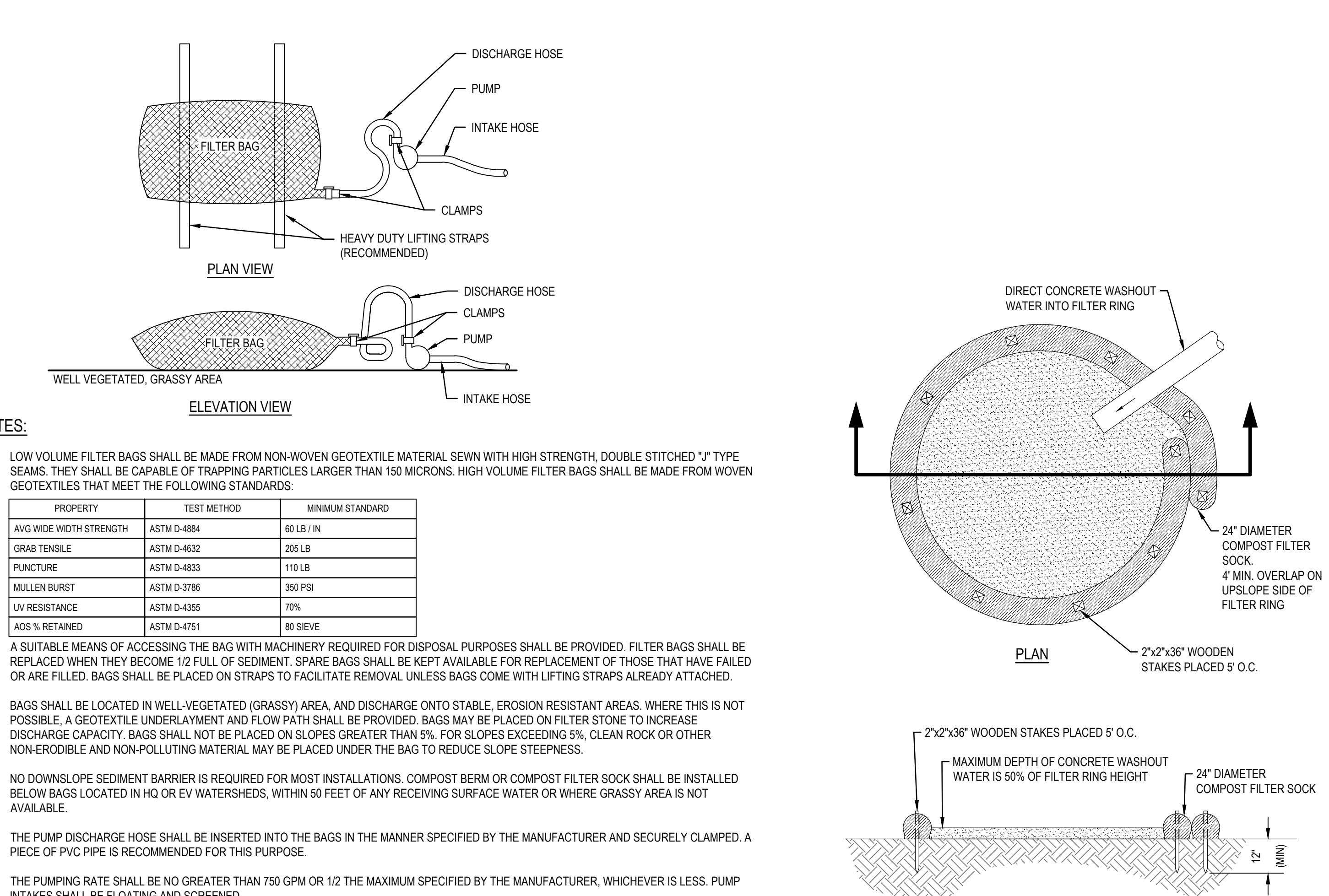
Title **EROSION AND SEDIMENTATION CONTROL DETAILS** Size **ARCH D**
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A PRELIMINARY / FINAL LAND DEVELOPMENT PLAN				
JS	CA	4/04/2024		
No. Issue	Checked	Approved	Date	
Author E. CAMACHO	Drafting Check M. Wiestling	Project Manager C. Amer		
Designer A. Stank	Design Check	Project Director M. Bisignani		



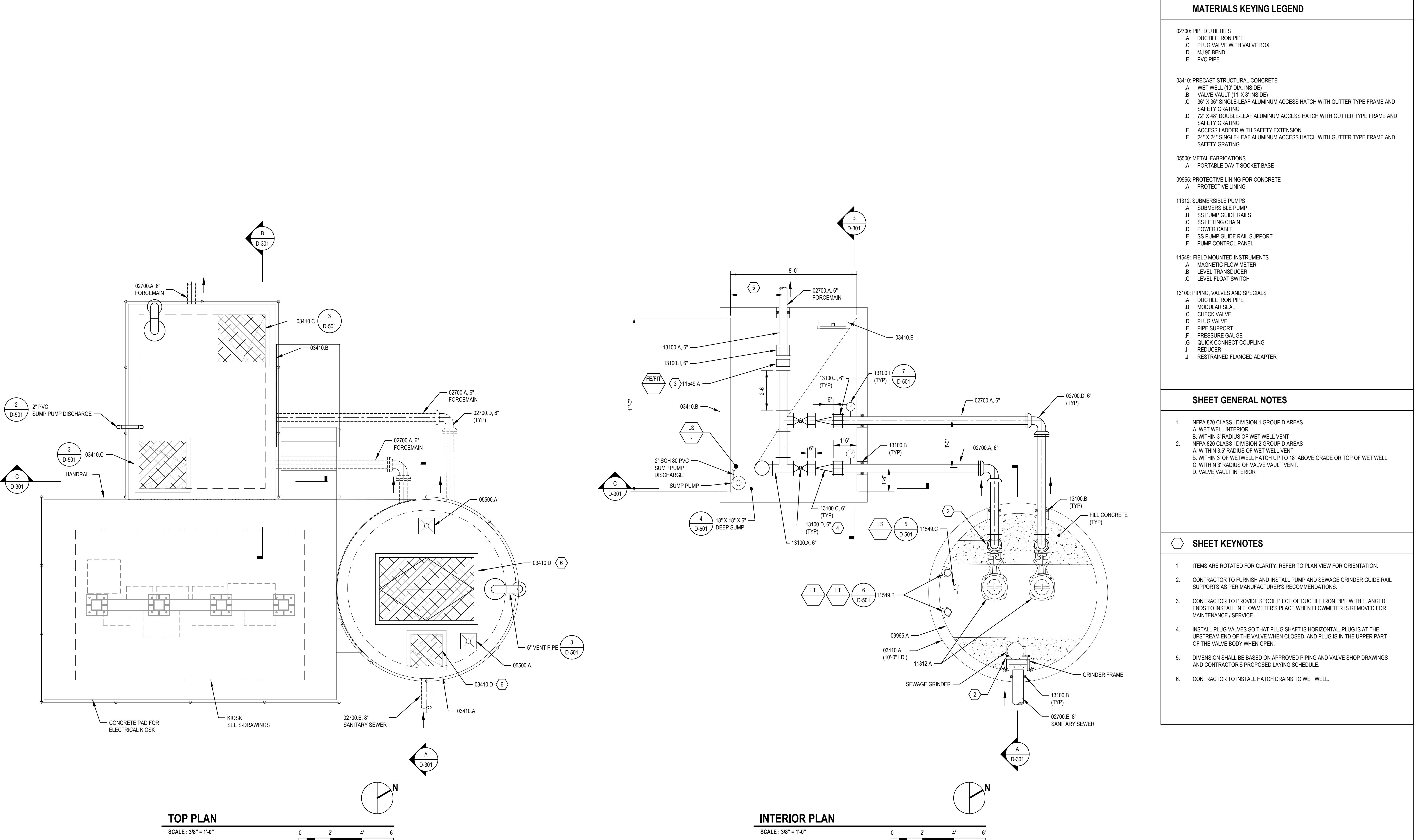
3 ROCK CONSTRUCTION ENTRANCE DETAIL

SCALE: NTS



6 CONCRETE WASHOUT DETAIL

SCALE: NTS



MATERIALS KEYING LEGEND

02700: PIPED UTILITIES
A DUCTILE IRON PIPE
C PLUG VALVE WITH VALVE BOX
D MI 90 BEND
E PVC PIPE
03410: PRECAST STRUCTURAL CONCRETE
A WET WELL (10' DIA. INSIDE)
B VALVE VAULT (11' X 8' INSIDE)
C 36" X 36" SINGLE-LEAF ALUMINUM ACCESS HATCH WITH GUTTER TYPE FRAME AND SAFETY GRATING
D 72" X 48" DOUBLE-LEAF ALUMINUM ACCESS HATCH WITH GUTTER TYPE FRAME AND SAFETY GRATING
E ACCESS LADDER WITH SAFETY EXTENSION
F 24" X 24" SINGLE-LEAF ALUMINUM ACCESS HATCH WITH GUTTER TYPE FRAME AND SAFETY GRATING
05500: METAL FABRICATIONS
A PORTABLE DAVIT SOCKET BASE
09965: PROTECTIVE LINING FOR CONCRETE
A PROTECTIVE LINING
11312: SUBMERSIBLE PUMPS
A SUBMERSIBLE PUMP
B SS PUMP GUIDE RAILS
C SS LIFTING CHAIN
D POWER CABLE
E SS PUMP GUIDE RAIL SUPPORT
F PUMP CONTROL PANEL
11549: FIELD MOUNTED INSTRUMENTS
A MAGNETIC FLOW METER
B LEVEL TRANSDUCER
C LEVEL FLOAT SWITCH
13100: PIPING, VALVES AND SPECIALS
A DUCTILE IRON PIPE
B MODULAR SEAL
C CHECK VALVE
D PLUG VALVE
E PIPE SUPPORT
F PRESSURE GAUGE
G QUICK CONNECT COUPLING
H REDUCER
J RESTRAINED FLANGED ADAPTER

SHEET GENERAL NOTES

1. NFPA 820 CLASS 1 DIVISION 1 GROUP D AREAS
 - A. WET WELL INTERIOR
 - B. WITHIN 3' RADIUS OF WET WELL VENT
2. NFPA 820 CLASS 1 DIVISION 2 GROUP D AREAS
 - A. WITHIN 3.5' RADIUS OF WET WELL VENT
 - B. WITHIN 3' OF WETWELL HATCH UP TO 18" ABOVE GRADE OR TOP OF WET WELL.
 - C. WITHIN 3' RADIUS OF VALVE VENT.
 - D. VALVE VENT INTERIOR

SHEET KEYNOTES

1. ITEMS ARE ROTATED FOR CLARITY. REFER TO PLAN VIEW FOR ORIENTATION.
2. CONTRACTOR TO FURNISH AND INSTALL PUMP AND SEWAGE GRINDER GUIDE RAIL SUPPORTS AS PER MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR TO PROVIDE SPOOL PIECE OF DUCTILE IRON PIPE WITH FLANGED ENDS TO INSTALL IN FLOWMETER'S PLACE WHEN FLOWMETER IS REMOVED FOR MAINTENANCE / SERVICE.
4. INSTALL PLUG VALVES SO THAT PLUG SHAFT IS HORIZONTAL, PLUG IS AT THE UPSTREAM END OF THE VALVE WHEN CLOSED, AND PLUG IS IN THE UPPER PART OF THE VALVE BODY WHEN OPEN.
5. DIMENSION SHALL BE BASED ON APPROVED PIPING AND VALVE SHOP DRAWINGS AND CONTRACTOR'S PROPOSED LAYING SCHEDULE.
6. CONTRACTOR TO INSTALL HATCH DRAINS TO WET WELL.

A PRELIMINARY / FINAL LAND DEVELOPMENT PLAN			
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Author E. CAMACHO	Drafting Check M. Wiestling	Project Manager C. AMER	Date
Designer D. KNAPTON	Design Check	Project Director M. BISIGNANI	



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Project CHESTNUT LANE PUMP STATION
Improvements

Project No.
12562338

Date

Scale

AS NOTED

Title PUMP STATION
PLANS

Size
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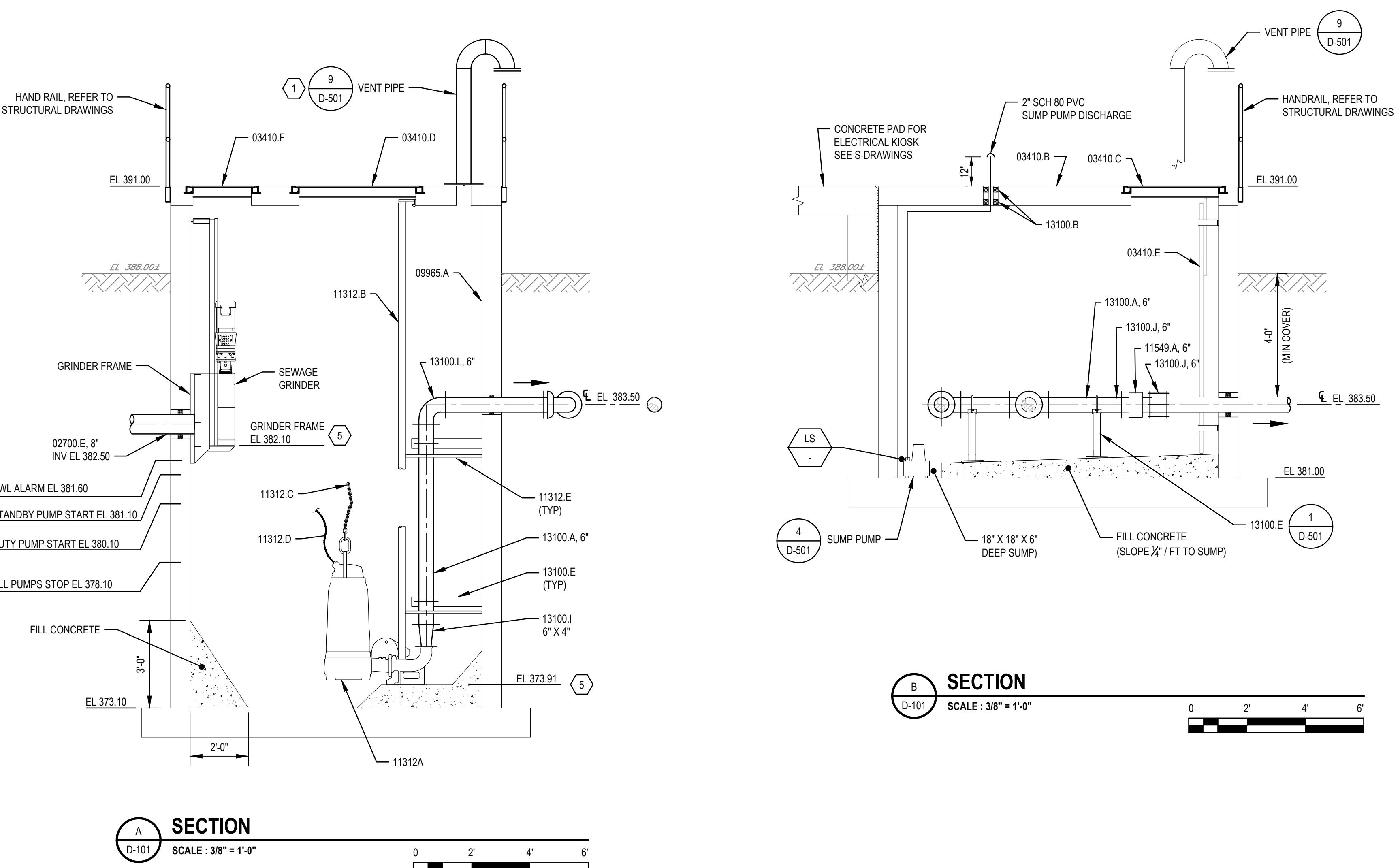
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MATERIALS KEYING LEGEND

02300: EARTHWORK	
A PENNDOT 2A STONE	
02700: PIPED UTILITIES	
A DUCTILE IRON PIPE	
E PVC PIPE	
J MJ SOLID SLEEVE	
03410: PRECAST STRUCTURAL CONCRETE	
A WET WELL (10' DIA. INSIDE)	
B VALVE VAULT (11'0" X 8'0" INSIDE)	
C 3'-0" X 3'-0" SINGLE-LEAF ALUMINUM ACCESS HATCH WITH GUTTER TYPE FRAME AND SAFETY GRATING	
D 6'-0" X 4'-0" DOUBLE-LEAF ALUMINUM ACCESS HATCH WITH GUTTER TYPE FRAME AND SAFETY GRATING	
E ACCESS LADDER WITH SAFETY EXTENSION	
F 2'-0" X 2'-0" SINGLE-LEAF ALUMINUM ACCESS HATCH WITH GUTTER TYPE FRAME AND SAFETY GRATING	
G 2'-0" X 2'-0" SINGLE-LEAF ALUMINUM ACCESS HATCH WITH GUTTER TYPE FRAME AND SAFETY GRATING	
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C CHECK VALVE	
D PLUG VALVE	
E PIPE SUPPORT	
F PRESSURE GAUGE	
G QUICK CONNECT COUPLING	
J REDUCER	
K RESTRAINED FLANGED ADAPTER	
L BASE ELBOW	
M 90 BEND	

SHEET KEYNOTES

- ITEMS ARE ROTATED FOR CLARITY. REFER TO PLAN VIEW FOR ORIENTATION.
- CONTRACTOR TO FURNISH AND INSTALL PUMP AND GRINDER GUIDE RAIL SUPPORTS AS PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR TO INSTALL GROUT (3' MIN) AS REQUIRED TO PROVIDE PUMP MANUFACTURER'S RECOMMENDED SUCTION CLEARANCE.
- CONTRACTOR TO COAT VAULT EXTERIOR WITH DAMP-PROOFING COATING AND INSTALL HEAT SHRINKABLE WRAP ON ALL JOINTS, IN ADDITION TO PRE-FORMED RUBBER GASKET. WRAP SHALL EXTEND 6" (MIN) BEYOND JOINT IN EACH DIRECTION.
- VERIFY EQUIPMENT ELEVATIONS WITH APPROVED SHOP DRAWINGS.



A PRELIMINARY / FINAL LAND DEVELOPMENT PLAN			
No. Issue	JS	CA	4/04/2024
Author E. CAMACHO	Drafting Check M. Wiestling	Project Manager C. AMER	
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Project CHESTNUT LANE PUMP STATION
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Project No. 12562338 Date Scale AS NOTED
Sheet No. D-301