DECEMBER 28, 2022

1900 CIRCLEVILLE ROAD

PRELIMINARY LAND DEVELOPMENT PLAN FERGUSON TOWNSHIP * CENTRE COUNTY * PENNSYLVANIA





REGION OFFICE: 3075 ENTERPRISE DRIVE SUITE 100 STATE COLLEGE, PA 16801 PH: 814-231-8285 Fax: 814-237-2308

LANCASTER **REGION OFFICE:** 3904 B ABEL DRIVE COLUMBIA, PA 17512 PH: 717-522-5031 Fax: 717-522-5046

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STING TREE SURVEY PLAN
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ACT 287 UTILITY INFORMATION (SERIAL NUMBER: 20220392624)
SANITARY SEWER UNIVERSITY AREA JOINT AUTHORITY 1576 SPRING VALLEY ROAD STATE COLLEGE, PA 16801 PHONE: (814) 238-9662
PUBLIC WATER STATE COLLEGE BOROUGH WATER AUTHORITY 1201 WEST BRANCH ROAD STATE COLLEGE, PA 16801 PHONE: (814) 238-6766
NATURAL GAS COLUMBIA GAS OF PENNSYLVANIA 2550 CAROLEAN INDUSTRIAL DRIVE STATE COLLEGE, PA 16801 PHONE: (814) 238-6775
ELECTRIC WEST PENN POWER COMPANY 2800 EAST COLLEGE AVENUE STATE COLLEGE, PA 16801 PHONE: (814) 237-5721
TELEPHONE VERIZON 224 SOUTH ALLEN STREET STATE COLLEGE, PA 16801 PHONE: (814) 231-6511
CABLE TELEVISION COMCAST 60 DECIBEL ROAD STATE COLLEGE, PA 16801 PHONE: (800) 992-3515
BEFORE YOU DIG ANYWHERE IN
PENNSYLVANIA ! CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY

GENERAL SITE DEMOLITION NOTES:

- The Contractor is responsible for obtaining all local and state permits required for demolition work unless other arrangements are coordinated with the owner.
- The Contractor shall indemnify and hold harmless the Owner and/or architect and engineer for any and all injuries and/or damages to personnel, equipment and/or existing facilities in the demolition and construction described in the plans and specifications.
- Existing conditions as depicted on these plans are general and illustrative in nature and do not include mechanical, electrical and miscellaneous structures. It is the responsibility of the Contractor to examine the site and be familiar with existing conditions prior to bidding on the demolition work for this project. If conditions encountered during examination are significantly different than those shown, the Contractor shall notify the architect and engineer immediately.
- All existing utilities not to be removed or abandoned are to remain operational at all times. Appropriate existing utilities shall remain in service until replacement/relocated utilities are operational.
- Existing above and below ground structures within the limits of new construction noted to be removed shall be razed unless noted otherwise in this construction set, architectural plans and/or project specifications. This includes foundation slabs, walls, and footings.
- Before excavation, all underground utilities shall be located in the field by the proper authorities. The Contractor shall notify PA One Call 1-800-242-1776. The location of all utilities and underground structures are approximate and may not all be shown. It is the responsibility of the Contractor to determine the existence and exact location of all utilities and underground structures.
- All demolition waste and construction debris shall be removed by the Contractor and disposed of in a state approved waste site and in accordance to all local and state codes and permit requirements.
- All utility removal, relocation, cutting, capping and/or abandonment shall be coordinated with the appropriate utility company
- The burning of cleared material and debris shall not be allowed without approval from owner and appropriate governing agency.
- D. Erosion and sedimentation control measures around areas of demolition shall be installed prior to initiation of demolition activities. Refer to plan and details for site specific information including tree protection details, if necessary.
- Asbestos or hazardous materials, if found on site, shall be removed by a licensed hazardous materials Contractor. Contractor shall notify Owner immediately if hazardous materials are encountered.
- 2. Contractor shall protect all corner pins, monuments, property corners, and benchmarks during demolition activities. If disturbed, Contractor shall have disturbed items reset by a licensed surveyor at no additional cost to the Owner.
- 13. Contractor shall adhere to all local, state, federal, and OSHA regulations operating demolition equipment around utilities.
- 14. Contractor shall provide and maintain traffic control measures in accordance with the PennDOT standards, and as required by local agencies working in and/or along streets, roads, highways, etc. It shall be the Contractor's responsibility to obtain approval and coordinate with local and/or state agencies regarding the need, extent, and limitations associated with installing and maintaining traffic control measures.
- 5. Contractor shall protect at all times adjacent structures and items from damage due to demolition activities. 6. Contractor shall coordinate existing facilities utility disconnects with the Owner prior to anticipated
- demolition of structures. 7. Contractor shall refer to Construction Plans for other pertinent information where applicable.
- 18. Contractor shall replace or repair to Owner's satisfaction all curb, utilities, sidewalks, landscaping, etc. damaged during construction that are not indicated to be removed.
- 9. Contractor shall be responsible for all costs and work required to adjust existing and proposed utilities and appurtenances to finish grades within the limit of work.
- 20. All paving to be removed shall be sawcut to provide a sharp clean edge. All sidewalks to be removed shall be sawcut at the nearest joint. Existing pavement shall be removed as required for new curb, walkway, or utility construction.
- . Contractor shall verify the location of manholes, inlets valves, etc. Contractor shall test pit existing utilities as deemed necessary within the limits of construction to determine the exact location and depth as required. Report any discrepancies from that indicated on the plan to the architect and engineer. All existing utilities shall be retained unless marked otherwise, and appurtenances shall be adjusted to final grade. Damage to existing conditions and utilities to remain shall be repaired as required to the Owner's satisfaction at the expense of the Contractor.
- 22. Contractor shall coordinate with utilities companies on installation, relocation or replacement of electrical, phone, gas and cable services.
- 23. The Contractor shall contact PA One Call system @ 1-800-242-1776 at least three (3) days before construction activities.

TAX PARCEL 24-004-010 EXISTING TREE SURVEY











Location Map SCALE: 1" = 2000'	Key Map SCALE: 1" = 1000'	Project Notes:
		a. Owner Information:
		b. Tax Parcel Numbers:
		d. Total Parcel Area: e. Property Address:
PARTY TOWNSHIP		f. Municipality: a. Zonina:
SITE	SITE	h. Existing Site Use: i. Proposed Site Use:
		J. Minimum Lot Size: k. Maximum Building Cove I. Proposed Building Cove
		m. Maximum Building Heig n. Proposed Building Heig
0 1000 2000	0 500 1000	o. Proposed Impervious:2. Building Setbacks:
GRAPHIC SCALE	GRAPHIC SCALE	a. Zoning (R3): Area Front:
Owner's Certification	Offer of Dedication	Side: Rear:
State of	State of County of	3. Act 287 Utility Informati All utility locations shoul
County of	On this the day of, 20,	a. Water: State 1201
personally appeared before me and certified that they were the owners of the	certifies that all proposed streets, right of ways, and easements not heretofore dedicated shown on this plan, are hereby offered for public use.	b. Sanitary Sewer: Univer 1576
properties shown on this plan and acknowledge the same to be their act and plan and designs, the same to be recorded as such, according to the law.	He acknowledges responsibility for maintenance of lands and/or facilities until they are complete and accepted for dedication by the Municipality.	c. reiepnone: verizo 224 S d. Electric: West
		2800 e. Cable television: Comc
witness my hand and seal, this date	Owner witness my hand and seal, this date	f. Gas: Colum 2550
		g. Storm Sewer: Fergu: 3147
		5. Natural Site Features & a. Soil limits and descrip
		b. There are not wetland
		c. There are no portions Agency (FEMA) Map Ni
Notary Public Commission Expires	Notary Public Commission Expires	d. Contours shown are to e. Horizontal Datum is Po
Township Engineer Certification	PROPOSED FEATURES LEGEND	f. Elevation Datum is the g. The Project Benchmark
l,, have reviewed and hereby certify that the plan meets all engineering design standards and criteria	PROPOSED BUILDING PROPOSED BUILDING	Elevation = 1214.15'.
of the Ferguson Township Code of Ordinances.		a. All lots may be subject reflected in the deed
Township Planning Commission Ferguson Township Planning Commission Approved	PROPOSED CONCRETE AREAS	7. Property monuments and
	PROPOSED RETAINING WALL PROPOSED PAINTED SITE CROSSWALK (ACCESSIBLE ROUTE)	8. For additional information a. 1900 Circleville Road "
Chair Date	EXISTING FEATURES LEGEND	b. 1900 Circleville Road " dated December 23, 2
Secretary Date	EXISTING BUILDING Existing Building	12. As-Built drawings of the Stormwater Management
IOWNSHIP SUPERVISORS Ferguson Township Supervisors Approved	Existing Curbing & Edge of Pavement Existing Concrete Areas	13. Contractor to verify build
Chair Date	Existing Bituminous Areas	14. Stormwater pipes and su
	o ⁰ s Existing Sanitary Sewer Lateral w∕ Clean Out www Existing Water Line w∕ Valve	15. Roof Leaders/Drains on Collection/Conveyance Ec
Secretary Date	— · — · — · — · — W Existing Water Service Lateral ——— G — G — Existing Gas Line	16. Landscaping Bed Note: 1
Design Engineer Certification	ou Øu Existing Overhead Utility Line w/ Pole O Existing Manhole	grasses and shrubs. 17. The Trees at the propert
I,, hereby certify that this plan, meets all design requirements of the Subdivision and Land Development	 Ø Existing Utility Pole ○ Existing Clean-Out 	18. All Trees and Shrubs sho
Ordinance, Zoning Ordinance and all other applicable Chapters of the Ferguson Township Code.	Existing Mail Box	19. The application for a Zo
Ferguson Township Zoning Approval	Existing Deciduous Tree	 A copy of the approved A Pre-Job Meeting is re
I hereby certify that this plan meets or exceeds all Ferguson Township zoning requirements at the date of signing.	Existing Evergreen Tree	22. A Driveway Permit is req
Ferguson Township Zoning Officer Date		23. A Township Roadway Occ
Professional Land Surveyor Certification	CURVE LENGTH RADIUS TANGENT CHORD DIRECTION CHORD DELTA	connection to the SCBW/ issued.
I, Nevin L. Grove, a Professional Land Surveyor in the Commonwealth of Pennsylvania, do hereby certify that this plan correctly represents	C1 50.01' 15050.75' 25.01' N 56° 39' 14" E 50.01' 0° 11' 25"	24. The Record Plan conform , 2023. All im
	C2 100.00' 15037.25' 50.00' N 56° 22' 13" E 100.00' 0° 22' 52"	so specifical dicient.
Signature Date	PROPOSED EASEMENT LINE TABLE	
Fire Chief Certification	LINE DIRECTION LENGTH	
and Fire Hydrants shown on this plan are adequate.	EL1 S 4* 33' 45" W 9.65' EL2 S 25* 01' 56" W 39 50'	
	EL3 N 64° 58' 04" W 20.00'	
Fire Chief Date	EL4 N 25° 01' 56" E 57.78'	
	ELD 5 35 55 00 E 19.02	
Recorder's Stamp Here		
in contact o builtip fiere		

Notes:

Information: Adam R. Fernsler and Heather K. Fernsler C/O RT Contracting, Inc. 3430 PA-764 STORMWATER BMP Duncansville, Pennsylvania 16635 MAINTENANCE DUTY 24-004-,010-,0000arcel Numbers: MAINTENANCE ITEM Record Book 2288, Page 649 Information: 0.55 AC (23,958 SF) Parcel Area: rty Address: 1900 Circleville Road STORM SEWER INLETS AND PIPES STORM SEWER INLETS AND PIPES SHALL BE CLEANED OF ALL DEBRIS, LITER, AND OTHER DELETERIOUS MATERIAL State College, PA 16803 pality: Ferguson Township THE OUTLET STRUCTURE SHALL BE KEPT CLEAN OF TRASH AND DEBRIS. THE ROOF DRAINS LEADING TO THE BASIN SHALL BE KEPT CLEAN OF TRASH Townhouse Residential District (R3) UNDERGROUND AND DEBRIS. VEHICULAR TRAFFIC ON UNDERGROUND INFILTRATION BASIN SHALL BE LIMITED TO THE MAXIMUM EXTENT POSSIBLE. VISUAL Site Use: Residential INFILTRATION BASIN INSPECTION (THROUGH THE OUTLET STRUCTURE) MUST BE CONDUCTED TO ENSURE THE UNDERGROUND INFILTRATION BASIN IS INFILTRATING AS Residential sed Site Use: DESIGNED. 0.465 AC (20,250 SF) um Lot Size: um Building Coverage: 30% (7,188 SF) sed Building Coverage: 14% (3,412 SF) THE STORM BOOM SHALL BE REPLACED, WITH DEBRIS IN THE SKIMMER TRAY AND THE OLD STORM BOOM DISPOSED OF PROPERLY. DEBRIS IN THE ium Building Height: GRATE INLET SKIMMER BOXES | FILTRATION BOX SHALL BE DUMPED INTO A PROPER DISPOSAL CONTAINER OR SUCTIONED OUT WITH A VACUUM. CLEAN THE SCREENS WITH A 40' PRAY WAND OR BRUSH. THE INLETS REQUIRING GRATE INLET SKIMMER BOX MAINTENANCE INCLUDE I-1 AND I-2. sed Building Height: 26'-2" Pavement — 0.10 AC (4,455 SF); Concrete — 0.03 AC (1,497 SF) sed Impervious: *DOCUMENTATION OF INSPECTIONS MUST BE MAINTAINED BY THE OWNER AND SUBMITTED TO TOWNSHIP UPON REQUEST. MAINTENANCE INSPECTIONS MAY BE PERFORMED BY THE TOWNSHIP TO ENSURE PROPER Setbacks: FUNCTIONING OF ALL STORMWATER FACILITIES. g (R3): Area & Bulk Category 3 Area & Bulk Category 2 Front: 20' Front: 25' Side: 10' Side: 10' Rear: 30' Rear: 30' Utility Information: (Serial Number: 20220392624) y locations should be verified prior to any construction. utility information and locations should be ed approximate. contractor shall notify pa one call prior to any excavation. State College Borough Water Authority (SCBWA) 1201 West Branch Road, State College, PA 16801; (814) 238-6766 ry Sewer: University Area Joint Authority (UAJA) 1576 Spring Valley Road, State College, PA 16801; (814) 238-5361 Verizon ione: 224 South Allen Street, State College, PA 16801; (814) 231-6511 West Penn Power N/F 2800 East College Avenue, State College, PA 16801; (814) 231-5355 Cedar Knoll Townhomes PB 33 PG 33 television: Comcast 1155 Benner Pike, State College, PA 16801; (814) 238-5050 TP 24-022-307 Columbia Gas of Pennsylvania 2550 Carolean Industrial Drive, State College, PA 16801; (814) 278-5840 Sewer: Ferguson Township Ex. Utility Pole 3147 Research Drive, State College, PA 16801; (814) 238-4651 WPP890 Site Features & Survey Information: mits and descriptions have been taken from the Natural Resources Conservation Service Web Soil Ex. Sanitary Manhole and Benchmark --y dated December 2022. TC=1214.15 are not wetlands on the site according to the National Wetland Inventory Mapping (U.S. Fish & Wildlife Inv. In=1208.15 e) for State College, PA last updated December 2022. Inv. In=1207.25 Inv. Out=1207. are no portions of this site within Flood Plain according to the Federal Emergency Management y (FEMA) Map Number 42027C0617F, effective date May 4, 2009. urs shown are taken from survey data collected in the field by PennTerra Engineering, Inc. ntal Datum is Pennsylvania North Zone State Plane Coordinates, North American Datum of 1983 (PA 3) U.S. Feet. - ROAD ion Datum is the North American Vertical Datum of 1988 (NAVD 88). roject Benchmark is the top of casting of the sanitary manhole on the North side of Circleville Road. 25' PAVED CIRCLEVILLE ion = 1214.15'. t Information: s may be subject to future easements in favor of utility companies. Any future easements will be ed in the deed for said lot. , R-0-W ailha monuments and pins shall be set after lot development and landscaping is completed. 60' 145' n tional information, refer to: Circleville Road "Stormwater Management Plan" prepared by PennTerra Engineering, Inc., dated NEW DETECTABLE nber 23, 2022. Circleville Road "Soil Erosion and Sedimentation Control Plan", prepared by PennTerra Engineering, Inc., December 23, 2022. N35:55:07 drawings of the stormwater facilities will be prepared in accordance with the Ferguson Township -FFE=1213.26 ter Management Ordinance, upon completion of project construction as required. or to verify building dimensions and all utility entry/exit locations; including downspouts on FFE=1212.85 - 1210 / tural drawings prior to any construction operations. ter pipes and sumps, etc. running through the lot are the responsibility of the Owner/Developer. 120.9 aders/Drains on the proposed building shall flow into the appropriate Stormwater 5 n/Conveyance Facility as specifically detailed. 1209 ping Bed Note: The Owner shall install Landscaping Beds as shown for the purpose of installing and shrubs. 1208 es at the property shall be preserved to the limits as shown. s and Shrubs shall be planted in accordance with the 'Guide to Planting in Ferguson Township'. lication for a Zoning Permit was made to Ferguson Township on December 28, 2022. f the approved Stormwater Management Site Plan must be on site at all times during construction. N/F Roman Empire Holdings LLC 1206lob Meeting is required with Ferguson Township prior to work starting. DB 2294 PG 573 _____*TP_24-423-63*__ ay Permit is required for the new Driveway. This Permit must be issued before a Zoning Permit is -----hip Roadway Occupancy Permit is required for the crossing of the water/water lateral, curb box and 3 on to the SCBWA main line at Circleville Road. This permit must be issued before a Zoning Permit is ._____ ord Plan conforms with the receiving final approval by the Ferguson Township Board of Supervisors on ___, 2023. All improvements are or will be installed in accordance with such plan in manner and time ⊖Ex. Clean Out fied therein. ○Ex. Clean Out ○Ex. Clean Out ○Ex. Clean Out ⊙Ex. Clean Out *≫Ex. Clean Out* 10' Side, Building N Setback (TYP) 1197 11

D----

Z3

10

inspected and maintained as follows:



CONSTRUCTION NOTES:

- Field survey data prepared by PennTerra Engineering, Inc. Contractor shall field verify all information and contact the site Owner or Owner's representative and engineer in the event of a discrepancy.
- The Contractor shall be responsible for examining the areas and conditions under which the project is to be constructed prior to the submission of a bid. Submission of a bid shall be construed to mean the Contractor has reviewed the site and is familiar with conditions and constraints of the site.
- The Contractor shall repair or replace all curb, pavement, utilities, sidewalks, landscaping, etc., within the site damaged during construction that are not indicated to be removed. All repairs or replacements are at the Contractor's expense.
- All paving to be removed shall be sawcut to provide a sharp clean edge. Existing bituminous pavement shall be removed as required for new curb, walkway, or utility construction. Refer to detail sheets for specific curb type of installation. Contractor shall then mill and/or patch bituminous paving and install scratch course as required to meet existing or proposed grades. All new bituminous paving joints shall be sealed with PG64-22.
- The Contractor shall verify elevations of existing paving at new paving connection locations before the paving subbase installation and report any discrepancies that will affect the drainage of the areas to the Owner's representative and engineer.
- The Contractor shall maintain one set of contract documents on site to be utilized for record documents. Field records of the depth and locations of all underground service utilities (water, sanitary sewer, storm drains, primary and secondary electric, gas, and cable television) shall be added to the record set by the Contractor as well as all field revisions and adjustments.
- The Contractor shall provide and maintain traffic control measures in accordance with the PennDOT standards, and as required by local agencies when working in and/or along streets, roads, highways, etc. It shall be the Contractor's responsibility to obtain approval of the traffic control plan.
- The Contractor shall refer to the architectural plans for the exact location of utility entrances, building dimensions, roof leaders exit doors, exit ramps, and porches. All site work shall be done in accordance with the plans prepared by PennTerra Engineering, the current regulations of the governing municipality, and all other pertinent federal, state & local laws. Any conflicts between the architectural plans and site plans shall be reported immediately to the Owner's representative.
- The Contractor shall comply at all times with applicable federal, state and local laws, provisions, and policies governing safety and health, including the Federal Construction Safety Act (Public Law 91-54), Federal Register, Chapter XVII, Part 1926 of Title 29 regulations, occupational safety and health regulations for construction, and subsequent publications updating these regulations.
-). All site work shall be done in accordance with the plans prepared by PennTerra Engineering Inc., the current requirements of the Ferguson Township, Centre County, the applicable sections of the PennDOT Standard Specifications for Roadway Construction, and all other pertinent federal and state laws.
- Any areas designated for approved septic systems must remain undisturbed. Any damage to approved septic areas shall be the responsibility to the contractor.

Ex. Utility Pole—

WPP5527661

27 LF OF 5' WIDE CONCRETE SIDEWALK

N/F

Roman Empire Holdings LLC

DB 2294 PG 573

TP 24-423-63

○Ex. Clean Out

DEx. Clean Out

.

○Ex. Clean Out

∴⊙Ex. Clean Out

2. The storage or removal of excess topsoil shall be coordinated with the owner or owner's representative.



PROPOSED FEATURES LEGEND

PROPOSED BUILDING

PROPOSED BUILDING

 ₽ ^) \

EXISTING BUILDING

PROPOSED CURBING & EDGE OF PAVEMENT PROPOSED CONCRETE SIDEWALK PROPOSED CONCRETE AREAS PROPOSED BITUMINOUS PAVEMENT AREAS PROPOSED RETAINING WALL PROPOSED PAINTED SITE CROSSWALK (ACCESSIBLE ROUTE)

SITE CROSS SECTION (SEE SHEET 8)

EXISTING FEATURES LEGEND

Existing Building

——w——w——w—— Existing Water Line w/ Valve — · — · — · — · — W Existing Water Service Lateral 0 \Box

Existing Curbing & Edge of Pavement Existing Concrete Areas Existing Bituminous Areas ____s____s____s____Existing Sanitary Sewer w/ Manhole Existing Manhole Existing Utility Pole Existing Clean-Out Existing Mail Box Existing Deciduous Tree Existing Evergreen Tree

Existing Shrub



SHEET NO.

4

1"=20'

GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.

GRADING NOTES:

- The project benchmark is the top of casting of the sanitary manhole, located on the North side of Circleville Road. Elev. = 1214.15.
- All existing trees, vegetation, pavements, concrete foundations, structures and organic topsoil shall be stripped and removed from new construction areas unless noted otherwise.
- All areas not paved shall be sodded, topsoiled, seeded, mulched or landscaped unless otherwise noted in the construction drawings, site specifications or instructed by the Owner.
- Contractor shall refer to the geotechnical report prior to initiation of any earthwork activity.
- The maximum slope for all on-site sidewalks shall be 4.90% with a maximum cross slope of 2.00% and curb ramps shall have a maximum slope of 8.30%.
- Proposed spot elevation are to bottom of curb (as applicable). The Contractor shall notify assigned inspection agency before any retaining wall construction. Retaining walls shall be constructed per the project specification approved building permit and certified by the assigned inspection agency.
- All fill material brought on to the job by the Contractor must comply with all applicable D.E.P. regulations regarding clean fill.
- . The Contractor shall notify Owner's testing agency before any placement and compaction of fills on the site. Fill areas shall be prepared and compacted per the project specifications and certified by the Owner's testing agency. Contractor shall be responsible for removal, retesting, and replacement of fills not meeting the specifications. The Contractor is also responsible for all expenses associated with replacement of fills not meeting the specifications.

STORMWATER MANAGEMENT NOTES:

- All site work shall be done in accordance with the plans prepared by PennTerra Engineering, Inc., the current requirements of the governing municipality, the applicable sections of the PennDOT standard specifications for roadway construction, and all other pertinent federal and state laws.
- The Contractor shall be responsible for examining the areas and conditions under which the project is to be constructed prior to the submission of a bid. Submission of a bid to be constructed to mean the Contractor has reviewed the site and is familiar with conditions and constraints of the site. All storm pipe shall be as noted. All joints shall be watertight.
- Contractor shall assume full responsibility for any fines or other measures assessed by regulatory agencies due to improper or deficient installation and / or maintenance of the temporary erosion and sedimentation control measures and post-construction stormwater measures installed.
- Notice of termination services: Contractor shall be responsible for all stormwater work/activities. This includes but is not limited to the following: a. Have a licensed professional or designee on-site to observe the critical stages of construction noted in the post-construction stormwater management plan. The licensed professional or designee will be responsible for signing the required certification forms and certifying that the facilities have been built according to the approved plans, processing and recording any required forms and the as-built survey until the Engineer (PennTerra Engineering, Inc.), Municipality (Ferguson Township) & Centre County Conservation District approvals are received.
- b. Prepare an as-built topographic survey sealed by a licensed surveyor from the commonwealth of Pennsylvania of the stormwater management facilities (infiltration basin, rain garden and outlet structures, outlet pipes, tops of berms and spillways)
- c. Provide double-ring infiltrometer tests as outlined in the December 2006 PA D.E.P. Stormwater BMP manual of the produced basin bottom soil mix prior to installation to certify that the soil mix meets the infiltration requirements noted on the plans.
- Contractor shall have a licensed professional submit as-built drawings/documentation (including verification of infiltration testing) of the stormwater management facilities prepared in accordance with the governing municipality's code of ordinances and submitted to the governing municipality at the completion of construction as a prerequisite of issuance of occupancy permit or release of the surety bond. A narrative and photographic documentation for critical stages of construction and for the infiltration surface prior to placement of filter fabric/amended soils must also be submitted to the governing municipality.
- As-built infiltration testing in infiltration basins shall be performed at the top of the finished native soil layer prior to topsoil placement. This testing is in addition to the testing identified in Note 9.c. The number of infiltration tests performed shall be in accordance with the governing municipality's code of ordinances.







RAPHIC	SCA
20	40 I

DATE

DECEMBER 28, 2022

1"=20'

(IN FEET)

1 inch = 20 ft.

UTILITY NOTES

- Before excavation, all underground utilities shall be located in the field by the proper authorities. the Contractor shall notify PA One call at 1-800-242-1776. The location of all utilities and underground structures are approximate and may not all be shown. It is the responsibility of the Contractor to determine the existence and exact location of all utilities and underground structures
- It is the responsibility of the Contractor to bid and perform all utility work in compliance to all applicable local and state codes and regulations. The Contractor shall be responsible for all fees associated with the installation, testing and final acceptance of all proposed utilities construction unless other arrangements have been made with the owner.
- Contractor shall be responsible for all fees associated with the installation, inspection, testing and final acceptance of all proposed utility construction.
- Contractor shall coordinate with the appropriate utility company on the addition, removal and/or relocation of utilities and utility poles and the extension of all proposed utilities to the proposed facilities. All utilities shall be installed in accordance with the specifications of the respective utility
- company. It is the responsibility of the Contractor to ensure all utilities are installed correctly to meet project requirements whether performed by the Contractor or not.
- Contractor shall verify all utility service connections at the proposed building with the architectural/mechanical/plumbing/electrical plans.
- An as-built drawing of new utility services shall be prepared by the Contractor and submitted to the Owner upon completion of the project. All sanitary sewer & water lines shall have 48" minimum coverage.
- All public water main construction and all private water main & lateral service construction shall be in accordance with the water authority's standards and specifications.
- All sanitary sewer service laterals shall be in accordance the sanitary sewer authority's standards and specifications. PVC pipe material shall be as shown on plan.
- An as-built drawing of new utility services must be prepared by the Contractor and submitted to the Owner upon completion of the project.
- 2. The Contractor shall be responsible for all costs and work required to adjust existing and
- proposed utilities and appurtenances to finished grades within the limits of work. 3. The Contractor shall be responsible for coordination with utility companies on location/removal and/or replacement of electrical, phone, gas, sanitary, water, and cable services.

STATE COLLEGE BOROUGH WATER AUTHORITY

All private water main & lateral service construction shall be in accordance with State College Borough Water Authority's (SCBWA) "material & installation specifications for "private" distribution lines, service lines & fire hydrants", latest edition

All water line pipes shall meet the State College Borough Water Authority's "public water main, service connections & fire hydrant specifications for Contractor installation" as well as "material & installation specifications for "private" distribution lines, service lines & fire hydrants", latest edition.

UNIVERSITY AREA JOINT AUTHORITY

Sanitary sewer laterals & clean—outs beyond UAJA's utility easement shall be PVC schedule 40 in accordance with UAJA specifications. Sanitary sewer laterals within the utility easement shall be PVC SDR-35.

Contractor shall coordinate depths of non-gravity utility lines gravity line inverts & other non-gravity lines to obtain adequate depths, clearances, & coverage.

The Contractor shall refer to the architectural plans for the exact location of utility entrances, building dimensions, roof leaders exit doors, exit ramps, and porches. All site work shall be done in accordance with the plans prepared by PennTerra Engineering, the current regulations of the governing municipality, and all other pertinent federal, state & local laws. Any conflicts between the architectural plans and site plans shall be reported immediately to the Owner's representative

SANITARY SEWER NOTE

The sanitary sewage system shall be a sanitary sewage pressure system with each unit/structure including an Environmental — One individual grinder sewage—system into the new 3" SDR-21 pressure sewage system.





	E-2	18	Northern White Cedar	Thuja occidentalis	6' Ht.
	U-1	8	Eastern Redbud	Cercis canadensis	6' Ht.

		EXISTING	F P L A N T I N G S	S
KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE
		C A N O P	Y TREES	
Ex1	1	Sweetgum	Liqidambar styraciflua	36" DIA.
Ex2	1	Dogwood	Cornus florida	12" DIA.
Ex3	1	Black Poplar	Populus nigra	36" DIA.

PennTerra
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Image: Sour Circleville Road Ferguson Township Centre County Pennsylvania PRELIMINARY LAND DEVELOPMENT PLAN BUILDING ELEVATIONS PROJECT NO. 21255
PROJECT NO. 21255 DATE DECEMBED 28 2022
ROAD FERGUSON TOWNSHIP CENTRE COUNTY PENNSYLVANIA PRELIMINARY LAND DEVELOPMENT PLAN BUILDING ELEVATIONS PROJECT NO. 21255 DATE DECEMBER 28, 2022

STORMWATER MANAGEMENT NOTES

- 1. All site work shall be done in accordance with the plans prepared by PennTerra Engineering, Inc., the current requirements of the governing municipality, the applicable sections of the PennDOT
- standard specifications for roadway construction, and all other pertinent federal and state laws. 2. The Contractor shall comply at all times with applicable federal, state and local laws, provisions, and policies governing safety and health, including the federal construction safety act, as
- amended. 3. The Contractor shall be responsible for examining the areas and conditions under which the project is to be constructed prior to the submission of a bid. Submission of a bid to be constructed to mean the Contractor has reviewed the site and is familiar with conditions and
- constraints of the site, 4. Before excavation, all underground utilities shall be located in the field by the proper authorities. The Contractor shall notify pa one call 1-800-242-1776. The location of all utilities and underground structures are approximate and may not all be shown. It is the responsibility of the Contractor to determine the existence and exact location of all utilities and underground structures.
- 5. An as-built drawing of new utility services shall be prepared by the Contractor and submitted to the Owner upon completion of the project.
- 6. All storm pipe shall be as noted. All joints shall be watertight.
- 7. Contractor shall refer to other plans within this construction set for other pertinent information. 8. Contractor shall have a licensed professional submit as—built drawings/documentation (including verification of infiltration testing at the stone and native soil layer interface) of the stormwater management facilities prepared in accordance with chapter 26 of the governing municipality's code of ordinances. A Record Set (As-Built) Package, including all supporting documentation as required in accordance 26-402.3.D(4), shall be provided at the completion of the project. A narrative and photographic documentation for critical stages of construction and for the infiltration surface prior to placement of filter fabric/stone must also be submitted to the governing municipality.

AS-BUILT NOTES:

- 1. Certification of the stormwater as-built plan by a licensed professional of the stormwater
- facilities specified under the section labeled "Critical Stages of Construction" is required.
- 2. The licensed professional responsible for certifying the stormwater as-built plan shall be selected prior to starting earth disturbance activities on the project.
- 3. The licensed professional responsible for certifying the stormwater as-built plan shall be present for all "Critical Stages of Construction."
- 4. A pre-construction meeting between the contractor, township, owner, and licensed professional responsible for certifying the stormwater as-built plan is required to ensure all "Critical Stages of Construction" are reviewed, acknowledged and milestones established to ensure the licensed professional is present onsite during the "Critical Stages of Construction." The location of infiltration tests performed during construction shall be documented on the as-built plans. Any modifications to the approved plan must be submitted to the Township for review prior to construction. The developer must provide the township with the as-built package for all stormwater facilities prior to occupancy or the release of the surety bond.

CRITICAL STAGES OF CONSTRUCTION:

Critical Stages of Construction are parts of the construction sequence of the Land Development Plan which require certification and construction oversight of stormwater facilities by the licensed professional responsible for certification of the certified stormwater as-built plan.

At least two weeks in advance of construction, the contractor shall schedule a coordination meeting with the licensed professional to review the critical stages and establish a schedule for inspections/verifications of all critical stages. At the discretion of the licensed professional, the contractor may provide photo documentation of the installation of certain items in lieu of the licensed professional being present.

The critical stages for each Post Construction Stormwater Best Management Practice are as follows: UNDERGROUND INFILTRATION BASIN

- 1. In order to protect the underground infiltration basin bottom from compaction, equipment shall not be permitted to operate within the basin when the floor is less than 36" from subgrade elevation. A typical infiltration facility bottom excavation detail has been provided on the plans for construction. Alternatively, the contractor may develop their own plan and methods for bottom excavation. The contractor must review the proposed plan/methods with the licensed professional during the coordination meeting.
- 2. As-built surveys are required prior to any backfill within the underground infiltration basin. The contractor must notify the licensed professional prior to backfilling in order verify elevations and aeometry
- 3. The contractor must notify the licensed professional of the installation of the outlet structure, outfall pipe and anti-seep collars prior to backfill to ensure installation has been completed in accordance with the approved plan.

GRATE INLET SKIMMER BOXES

1. Verification that the Grate Inlet Skimmer Boxes have been installed in the locations shown on the plan is required (proposed inlets I-1 and I-2).

NATURALLY OCCURING GEOLOGIC FORMATIONS/SOIL CONDITIONS:

There are no known naturally occurring geologic formations or soil conditions that pose the potential for pollution during construction. If a sinkhole is encountered due to karst topography, the sinkhole shall be repaired as specified on the sinkhole repair detail and/or a geotechnical engineer must be contacted for proper repair procedures.

PERMANENT SEEDING

Permanent Seeding shall consist of the following:

Rate Item 1. Seed Mixture Consists of: 102 lbs. / acre 50% Poa pratensis (Kentucky Bluegrass) 30% Festuca rubra (Creeping Red Fescue) 20% Lolium perenne L. (Perennial Rye)

3 tons / acre

GRADING NOTES

2. Mulch

- 1. The project benchmark is the top of casting of the sanitary manhole on the North side of
- Circleville Road. Elevation = 1214.15'.
- 2. All existing trees, vegetation, pavements, concrete foundations, structures and organic topsoil shall be stripped and removed from new construction areas unless noted otherwise. 3. All areas not paved shall be sodded, topsoiled, seeded, mulched or landscaped unless otherwise
- noted in the construction plans, site specifications or instructed by the Owner. 4. Contractor shall refer to the geotechnical report prior to initiation of any earthwork activity. Refer to the Geotechnical Report 'Preliminary Geologic Investigation - 1900 Circleville Road - CMT
- Laboratories File No. 2208300 by CMT Laboratories, Inc., August 15, 2022'. 5. The maximum slope within all the handicapped parking spaces shall be 2.00% in any direction. 6. The maximum slope for all on-site sidewalks shall be 4.90% with a maximum cross slope of 2.00% and curb ramps shall have a maximum slope of 8.30%
- 7. Proposed spot elevation are to bottom of curb unless noted otherwise.
- 8. The Contractor shall notify assigned inspection agency before any retaining wall construction. Retaining walls shall be constructed per the project specification approved building permit and certified by the assigned inspection agency. 9. All fill material brought on to the job by the Contractor must comply with all applicable D.E.P.
- regulations regarding clean fill. 10. All areas disturbed during construction, not designated to receive paving or mulch, shall be fine graded, topsoiled, & seeded unless otherwise noted in the construction drawings, site
- specifications or instructed by the Owner. 11. The Contractor shall notify Owner's testing agency before any placement and compaction of fills on the site. Fill areas shall be prepared and compacted per the project specifications and
- certified by the Owner's testing agency. Contractor shall be responsible for removal, retesting, and replacement of fills not meeting the specifications. The Contractor is also responsible for all expenses associated with replacement of fills not meeting the specifications.
- 12. The Contractor shall notify assigned inspection agency before any retaining wall construction. Retaining walls shall be constructed per the project specification approved building permit and certified by the assigned inspection agency.

SURVEY FEAT	TIPES LECEND	
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	— Adjoining Property Line — Building Setback Line	STATE COLLEGE, F PH: 814-231-82
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	- Existing Sanitary Sewer w/ Manhole	ENGINEER PE-073273
	Existing Sanitary Sewer Lateral w/ Clean Out - Existing Water Line w/ Valve	WSYLV
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ø	Existing Utility Pole	
°	Existing Clean–Out Existing Mail Box	
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Star 1. 2.	ndard Erosion and Sedimentation Control Plan Notes: 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 Centre County Conservation District) must be available at the project site at all times. The Centre County Conservation District shall be notified of any changes to the approved plan prior to implementation of those changes. The Centre County Conservation District may require a written submittal of those changes for review and approval at its discretion. At least 7 days prior to starting any earth disturbance activities, including clearing and arubbing, the owner and/or	Staging of Earthmoving Activities Construction Sequence All earth disturbance activities shall proceed in accordance with the following staging of earthmoving activities. Each shall be completed before a subsequent stage is initiated. A. Field mark/locate the limits of disturbance as shown on the Erosion and Sedimentation Control Plan (E&SCP). B. Install the rock construction entrance for the site, as shown on the E&SCP. C. Install all silt sock as shown on the E&SCP. D. Strip the topsoil from the site construction area and place the topsoil at the location shown on the E&SCP.
	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 Centre County Conservation District to an on-site preconstruction meeting.	the stockpile with the temporary seeding mixture after installing silt sock on the downslope side of the topsoil stockpile. E. Install I—4 by removing existing yard drain as shown per plan. Install proposed storm sewer pipe run OS—1 to I working from the very downslope end, working upslope. Place inlet protection on all newly installed inlets.
3.	At least 3 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call System Inc. shall be notified at 1—800—242—1776 for the location of existing underground utilities.	 F. Begin rough grading the site. G. The underground infiltration basin can be installed at this time in accordance with General Constriction "Note 7 above to ensure the basin bottom is not compacted. Installation shall include interior conveyance pipes and inl
4.	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 Centre County Conservation District or by the Department prior to implementation.	and stone backfill as shown on the stormwater details sheet. H. Building construction can occur at this time. I. Continue with site grading and stabilize all parking and roadway areas with stone, and install all site sidewalks.
5.	Areas to be filled are to be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots and other objectionable material.	downslope of each line and proceeding upslope. The amount of utility installation shall coincide with the amount trenching that can be excavated and backfilled daily. Should any open trench be left at the end of each day, length shall not exceed fifty lineal feet. Install inlet protection on all newly installed inlets as shown on the E&
6.	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.	K. Once all utilities are installed and all entrance ways are brought to sub grade, paving operations can begin, the removing the rock construction entrance. Curbing installation can occur at this time. All proposed lawn areas s topsoiled and seeded with the permanent seeding mixture. Erosion control lining shall be installed in the locatic shown on the E&SCP.
7.	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.	L. Once permanent stabilization has been achieved, all temporary erosion and sediment controls may be removed General Construction "Note 5"). These controls include silt socks, topsoil stockpiles and inlet protection. Stabiliz areas disturbed by the removal of these controls immediately with the permanent seeding mixture as specified "Permanent Seeding Mixtures" section. Install grate inlet skimmer boxes on inlets.
8.	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.	Temporary Control Measures Temporary control measures will be implemented to ensure that erosion is minimized and that sediment is retained construction. The rock construction entrance will be provided at the site entrance to prevent tracking of sediment the site Silt sock will be placed at the locations shown on the Frasion and Sedimentation Control Plan to provide r
9.	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 Centre County Conservation District and/or the regional office of the Department.	filtration of the site runoff. Pumped water filter bags will be used when water is encountered within sumped areas w the construction site to filter all sediment out of the water being pumped off site. Inlet protection will be used to prevent sedimentation of the storm sewer system. A topsoil stockpile will be provided to provide a convenient place store the sites topsoil. Erosion control lining will be used to help to stabilize the steeper sloped areas.
10.	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 discharge at the site.	Temporary seeding on all disturbed areas shall be done immediately after grading is finished and shall consist of th following: Item Rate
11.	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.	1. Agricultural grade limestone 1 ton / acre 2. Fertilizer 10-10-10 500 lbs. / acre
12.	The contractor is responsible for ensuring that any material brought on site is clean fill. Form FP-001 must be retained by the property owner for any fill material affected by a spill or release of a regulated substance by availifying as clean fill due to analytical testing.	3. Annual ryegrass 40 lbs. / acre 4. Mulch (straw) 3 tons / acre
13. 14.	All pumping of water from any work area shall be done according to the procedure described in this plan, over undisturbed vegetated areas. Vehicles and equipment may neither enter directly nor exit directly from lots <u>tax parcel 24-004-010-0000</u> onto	Permanent Control Measures Permanent control measures include the underground infiltration basin, grate inlet skimmer boxes, and seeding / landscaping. Seeding specifications are for graded or cleared areas where permanent vegetative cover is needed.
15.	<u>Circleville Road.</u> Until the site is stabilized, all erosion and sediment BMPs shall be maintained properly. Maintenance shall include	Soil Enhancements: It is recommended that site specific soil testing be performed. Lieu of soil test recommendat use the following schedule:
	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.	 Acceptable - Apply 6 tons per acre Dolomitic Limestone (240 lbs/ 1000 s.f.) and 1000 lbs/acre 10-20-20 fertilizer (25 lbs/ 1000 s.f.) before seeding. Harrow or disc into upper three inches of soil. Topsoil Placement - Topsoil shall be placed at a minimum 4" in depth over disturbed vegetated areas.
16.	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.	Permanent Seeding shall consist of the following:
17. 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. All sediment removed from BMPs shall be disposed of in the manner described on the plan drawings.	1. Seed Mixture Consisting of 102 lbs./acre 50% Poa pratensis (Kentucky Bluegrass) 30% Festuca rubra (Creeping Red Fescue) 20% Lolium perenne L. (Perennial Rye)
19.	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	2. *Mulch (straw) 3 tons/ acre
20.	in place prior to seeding and mulching. Fill outslopes shall have a minimum of 2 inches of topsoil. All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related	*Mulching: Apply mulch immediately after seeding and anchor properly with an anchoring tool following one of the methods listed below.
21.	local requirements or codes. All earthen fills shall be placed in compacted layers not to exceed 9 inches in thickness.	 Tracking: The process of cutting mulch into the soil via equipment that runs on tracks, is employed primarily of slopes 3:1 or steeper. Mulch Nettings: Staple lightweight biodegradable paper, plactic or cotton patting over the mulch according to the start of the st
22.	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.	 3) Synthetic Binders: Synthetic binders such as acrylic DLR (AGRI-TAC), DCA-70, Petroset or Terratack may be u
23. 24.	Frozen materials or soft, mucky, or highly compressible materials shall not be incorporated into fills. Fill shall not be placed on saturated or frozen surfaces.	rates recommended by the manufacturer to anchor mulch material. 4) Wood Cellulose Fiber: The fiber binder shall be applied at a net dry weight of 750 lb/acre. The wood cellulose shall be mixed with water, and the mixture shall contain a maximum of 50 lbs of wood cellulose fiber per 100 gallons.
25.	Seeps or springs encountered during construction shall be handled in accordance with the standard and specification for subsurface drain or other approved method.	5) Peg & Twine: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to surface by stretching twine between pegs in a criss—cross within a square pattern. Secure twine around each peg with two or more turns
20.	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.	Maintenance Program
27.	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.	During construction, the contractor will be responsible for maintenance and repair of all erosion and sedimentation of facilities. These facilities should be inspected daily and after every runoff event greater than 0.25". Any erosion condisturbed during construction, installation of utilities or found to be inadequate upon inspection shall be repaired or replaced within 24 hours after the disturbance or the discrepancy is discovered. Ensure logs are kept per #16 of the Standard Erosion and Sedimentation Control Plan Notes. The maintenance of the erosion control facilities will include following:
28.	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	Construction Entrance:
29.	resisting failure due to slumping, sliding, or other movements. 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 Centre County Conservation District or the Department.	a. The entrance shall be maintained in a condition that will prevent tracking or flowing of sediment onto public rights—of—way. This may require periodic top dressing with additional stone as conditions demand and repai and/or cleanout of any measure used to trap sediment. All sediment spilled, dropped, washed or tracked o public rights—of—way must be removed immediately. Sediment removed from the structure shall be spread o
30.	Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the Centre County Conservation District for an inspection prior to removal of the E&S BMPs.	Topsoil Stockpile:
31.	After final site stabilization has been achieved, temporary erosion and sediment BMPs must be removed. Areas disturbed during removal of the BMPs shall be stabilized immediately. In order to ensure rapid revegetation of disturbed areas, such removal are to be done only during the germinating season.	a. The topsoil stockpile shall be seeded with the temporary seeding mixture to ensure proper stabilization. Any additional topsoil spread at these locations shall also be seeded with the temporary seeding mixture.
32.	Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the Centre County Conservation District to schedule a final inspection.	a. If the vegetative cover is not established uniformly by the third mowing, the contractor shall reapply topsoil necessary and seed and mulch as needed to provide adequate cover.
	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	Inlet Protection: a. Inlet filter bags should be inspected on a weekly basis and after each runoff event. Needed repairs should b
34.	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. 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.	initiated immediately after the inspection. b. Filter bags should be cleaned and/or replaced when the bag is ½ full. Damaged bags should be replaced. Se removed from the inlet protection shall be spread over an existing stockpile with controls already in place a seeded with the temporary seeding mixture.
Gen	eral Construction Notes:	Silt socks: a. The Contractor shall maintain the socks in a functional condition at all times and it shall be routinely inspe
2.) All temporary seeding shall be done within 72 hours of the completion of disturbances for all areas reauiring	 b. Where the sock requires repair, it will be routinely repaired. c. The contractor shall remove sediment collected at the base of the sock when they reach 1/2 of the expose height of the sock or as directed by the Engineer. Sediment removed from the sock shall be apread ever a social sector.
3. 4.	vegetative cover.) Prior to exiting the site, all construction vehicles leaving the site must drive over the rock construction entrance.) All utility installation shall be done at a rate of which all trenching excavated shall be backfilled within the same	existing stockpile with controls already in place and be seeded with the temporary seeding mixture. Alternative rather than create a soil disturbing activity, the engineer may call for additional sock to be added at areas high sedimentation, placed immediately on top of the existing sediment laden sock. The sock will be dispers site when no longer required, as determined by the Engineer
5.	day. All utility installation shall begin at the very downslope and proceed upslope.) The removal of temporary Erosion and Sedimentation Controls shall be coordinated with the Centre County Conservation District and the site Civil Engineer. Prior to removal of these controls the Centre County Conservation	Pumped Water Filter Bag:
6.	District and the sites Civil Engineer shall be notified.) Silt Socks must be placed and maintained downslope of all topsoil stockpiles. Topsoil stockpiles must also be seeded with the temporary seeding mixture.	 a. The contractor shall maintain the filter bag in a functional condition at all times and routinely inspect and r as required. b. Filter bags shall be replaced when they become 14 full and energy bars that he has a "when they become 14 full and energy bars that he has a "when they become 14 full and energy bars that he has a "when they become 14 full and energy bars that he has a start of the has a st
7.) In order to avoid compaction of the proposed underground infiltration basin bottom, special procedures shall be implemented for equipment operations during the excavation of the underground infiltration basin bottom. The excavation shall be completed utilizing equipment located outside the underaround infiltration basin bottom (if	failed or filled filter bags. Sediment removed from the pumped water filter bag shall be spread over an exist stockpile with controls already in place and be seeded with the temporary seeding mixture.

excavation cannot fully be completed from outside the bottom, refer to the typical underground infiltration basin

bottom excavation detail.)

ving Activities Construction Sequence

shall proceed in accordance with the following staging of earthmoving activities. Each stage

and stabilize all parking and roadway areas with stone, and install all site sidewalks. ng utilities in accordance with General Construction "Note 4" above, working from the very proceeding upslope. The amount of utility installation shall coincide with the amount of avated and backfilled daily. Should any open trench be left at the end of each day, the fty lineal feet. Install inlet protection on all newly installed inlets as shown on the E&SCP. alled and all entrance ways are brought to sub grade, paving operations can begin, thus iction entrance. Curbing installation can occur at this time. All proposed lawn areas shall be the permanent seeding mixture. Erosion control lining shall be installed in the locations

tion has been achieved, all temporary erosion and sediment controls may be removed (see 5"). These controls include silt socks, topsoil stockpiles and inlet protection. Stabilize any noval of these controls immediately with the permanent seeding mixture as specified in the res" section. Install grate inlet skimmer boxes on inlets.

I be implemented to ensure that erosion is minimized and that sediment is retained during ction entrance will be provided at the site entrance to prevent tracking of sediment from at the locations shown on the Erosion and Sedimentation Control Plan to provide proper nped water filter bags will be used when water is encountered within sumped areas within sediment out of the water being pumped off site. Inlet protection will be used to help torm sewer system. A topsoil stockpile will be provided to provide a convenient place to control lining will be used to help to stabilize the steeper sloped areas.

Rate
1 ton / acre
500 lbs. / acr
40 lbs. / acre
3 tons / acre

Jiately after seeding and anchor properly with an anchoring tool following one of the

binders such as acrylic DLR (AGRI-TAC), DCA-70, Petroset or Terratack may be used at manufacturer to anchor mulch material. fiber binder shall be applied at a net dry weight of 750 lb/acre. The wood cellulose fiber

ctor will be responsible for maintenance and repair of all erosion and sedimentation control be inspected daily and after every runoff event greater than 0.25". Any erosion control nstallation of utilities or found to be inadequate upon inspection shall be repaired or the disturbance or the discrepancy is discovered. Ensure logs are kept per #16 of the ation Control Plan Notes. The maintenance of the erosion control facilities will include the

naintained in a condition that will prevent tracking or flowing of sediment onto public ay require periodic top dressing with additional stone as conditions demand and repair measure used to trap sediment. All sediment spilled, dropped, washed or tracked onto ust be removed immediately. Sediment removed from the structure shall be spread over an controls already in place and be seeded with the temporary seeding mixture.

eaned and/or replaced when the bag is $rac{1}{2}$ full. Damaged bags should be replaced. Sediment protection shall be spread over an existing stockpile with controls already in place and be ary seeding mixture.

nove sediment collected at the base of the sock when they reach 1/2 of the exposed as directed by the Engineer. Sediment removed from the sock shall be spread over an ontrols already in place and be seeded with the temporary seeding mixture. Alternatively, disturbing activity, the engineer may call for additional sock to be added at areas of ed immediately on top of the existing sediment laden sock. The sock will be dispersed on uired, as determined by the Engineer.

aced when they become $rac{1}{2}$ full and spare bags shall be kept available for replacement of . Sediment removed from the pumped water filter bag shall be spread over an existing eady in place and be seeded with the temporary seeding mixture. c. The pumping rate shall be observed and be no greater than 750 GPM or $\frac{1}{2}$ the maximum specified by the

manufacturer, whichever is less.

Spoil Materials:

a. All sediment removed from erosion and sedimentation pollution control facilities shall be spread over spoil areas with controls already in place. Stabilize the spoil material with the temporary seeding mixture.

Recycling and Disposal of Materials

The operator shall remove from the site, recycle, or dispose of all building materials and wastes in accordance with the Department's Solid Waste Management Regulations at 25 PA. Code 260.1et seq., 271.1 et seq., and 287.1 et seq. The contractor shall not illegally bury, dump, or discharge any building material or wastes.

Wastes generated during the construction of this project shall be recycled if at all possible. Any materials that cannot be recycled or reused shall be disposed of at a Pennsylvania Department of Environmental Protection approved landfill. If soil and/or rock disposal areas are required, erosion and sedimentation controls shall be implemented at these areas. Any excess soil waste may only be disposed of at an approved E&S/NPDES permitted site.

Responsibilities for Fill Materials

The contractor is responsible to use environmental due diligence to ensure any fill material required to be imported to or exported from the site qualifies as Clean Fill.

Clean Fill is defined as: Uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and is recognizable as such. The term does not include materials placed in or on the waters of the commonwealth unless otherwise authorized. (The term "used asphalt" does not include milled asphalt or asphalt that has been processed for re-use.)

Environmental due diligence: Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, Sanborn maps, environmental questionnaires, transaction screens, analytical testing, environmental assessments or audits. Analytical testing is not a required part of due diligence unless visual inspection and/or review of the past land use of the property indicates that the fill may have been subjected to a spill or release of regulated substance. If the fill may have been affected by a spill or release of a regulated substance, it must be tested to determine if it qualifies as clean fill. Testing should be performed in accordance with Appendix A of the Department's policy "Management of Fill".

Fill material that does not qualify as clean fill is regulated fill. Regulated fill is waste and must be managed in accordance with the Department's municipal or residual waste regulations based on 25 Pa. Code Chapters 287 Residual Waste management or 271 Municipal Waste Management, whichever is applicable.

CONTROL NARRATIVI

> PROJECT NO. 21255

> > DATE

DECEMBER 28, 2022 SHEET NO

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