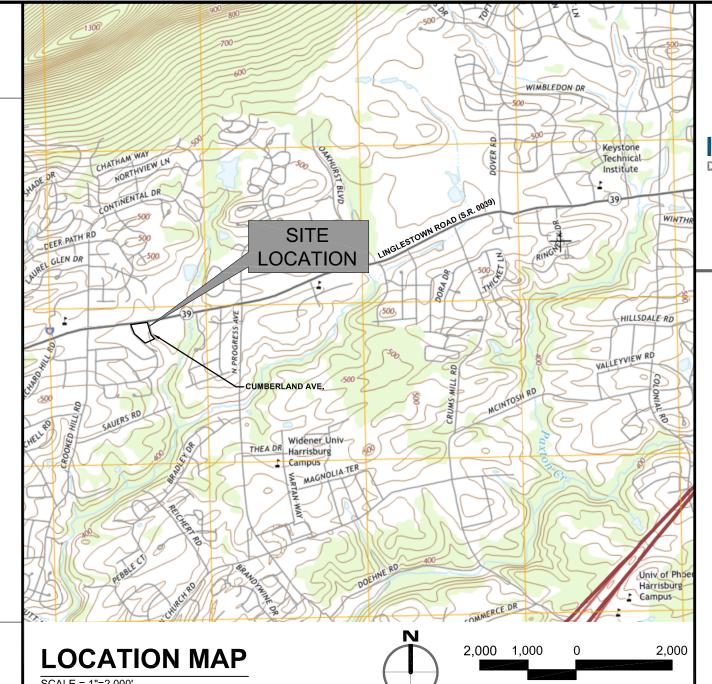


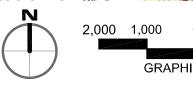
PRELIMINARY/FINAL LAND DEVELOPMENT PLAN

LINGLESTOWN ROAD SITE OFFICE BUILDING

430 N. FRONT STREET ASSOCIATES, LLC

SUSQUEHANNA TOWNSHIP DAUPHIN COUNTY, PENNSYLVANIA





COMMISSION THIS

PROFESSIONAL SEAL

REVIEWED SCALE AS NOTED DATE PROJECT NO. CAD FILE:

)1 - LD COVERSHEET

DRAWN

COVER

ACT 287 LIST OF UTILITIES

NOTIFICATION OF UTILITIES BEFORE EXCAVATION IN CONTRACT AREA. THE ONE UNDERGROUND UTILITIES LOCATION

ADDRESS: 300E LAIRD ST WILKES BARRE, PA. 187027025 ADDRESS: 8189 ADAMS DR HUMMELSTOWN, PA. 17036

COMPANY: VERIZON PENNSYLVANIA LL ADDRESS: 1026 HAY ST

COMPANY: PPL ELECTRIC UTILITIES CORPORATION 3 WILKES BARRE, PA. 18702

CONTACT: K SANTAYANA mcsantayana@pplweb.com

COMPANY: FRONTIER COMMUNICATIONS OF PAINC COMPANY: COMCAST

PO BOX 896 HANOVER, PA. 17331 leo.c.hilbert@centurylink.com

CONTACT: NATHAN SPRIGGS

COMPANY: SUSQUEHANNA TOWNSHI ADDRESS: 1900 LINGLESTOWN RD HARRISBURG, PA 17110

nspriggs@susquehannatwp.com

LAND SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE SUSQUEHANNA TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

MATT DAVIS, LS No. 00000

CIVIL ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE THIS PLAN IS ACCURATE AND CORRECT AS INDICATED.

JUSTIN KUHN, P.E. No. 074912

STORMWATER PLAN CERTIFICATION

HEREBY CERTIFY THAT THE STORMWATER MANAGEMENT SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF SUSQUEHANNA TOWNSHIP'S STORMWATER MANAGEMENT ORDINANCE.

ENGINEER'S SIGNATURE

WETLAND CERTIFICATION

THE SITE HAS BEEN INVESTIGATED FOR WETLAND AREAS AND TO THE BEST OF MY KNOWLEDGE, ALL WETLAND AREAS ARE SHOWN ON THIS PLAN.

ENGINEER'S SIGNATURE

LIMESTONE CERTIFICATION

JUSTIN KUHN

I JUSTIN KUHN , CERTIFY THAT THE PROPOSED DETENTION BASIN (CIRCLE ONE) IS / IS NOT UNDERLAIN

PLAN PREPARERS

WORMLEYSBURG | PA | 17043

717-497-3332



LANDOWNER AND DEVELOPER

WAIVER REQUEST

THE APPLICANT IS HEREBY REQUESTING THE FOLLOWING WAIVERS FROM THE SUSQUEHANNA TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE:

APPROVAL DATE

SECTION 22-1107K - WAIVER OF SIDEWALKS

SECTION 22-617.G - WAIVER OF INFILTRATION FACILITY DEWATERING TIME

SECTION 22-1009-3.A(3) - WAIVER OF STREET TREES ALONG CUMBERLAND AVENUE

SHEET INDEX

| Sheet Number | Sheet Title |
|-----------------|------------------------------------|
| 01 | COVER SHEET |
| 02 | EXISTING CONDITIONS PLAN |
| 03 | DEMOLITION PLAN |
| 04 | SITE PLAN |
| 05 | GRADING, DRAINAGE AND UTILITY PLAN |
| 06 | EASEMENT PLAN |
| 07 | LANDSCAPE PLAN |
| 08 | PROFILES |
| 09 | DETAILS |
| 10 | DETAILS |
| 11 | DETAILS |
| 12 | E&S PLAN |
| 13 | E&S DETAILS |
| 14 | E&S DETAILS |

SUPPLEMENTAL PLANS: APPROVED PADEP CHAPTER 105 GP-5 & GP-7 SITE SPECIFIC DRAWINGS

GENERAL NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH SUSQUEHANNA TOWNSHI

- FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES, PRIOR TO DEMOLITION OR CONSTRUCTION THE CONTRACTOR SHALL CONTACT PA PENNSYLVANIA811 72 HOURS BEFORE COMMENCEMENT OF WORK AT PA (800) 242-1776 OR AT 811 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPAN' TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROPOSED UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHE WITH WORK IN THIS AREA.
- 6. IF PLANS AND OR SPECIFICATIONS ARE IN CONFLICT, THE MOST STRINGEN
- 7. ALL NOTES AND DIMENSIONS DESIGNATED "TYPICAL" APPLY TO ALL LIKE C
- SIMILAR CONDITIONS THROUGHOUT THE PROJECT. 8. CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF SAME, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
- 9. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF TH FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIE
- 10. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT AND OBTAIN FROM DAUPHIN COUNTY AND SUSQUEHANNA TOWNSHIP ALL CONSTRUCTION PERMITS. INCLUDING ANY PENNDOT PERMITS, SEWER AND WATER CONNECTION PERMITS, AND ROADWAY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS. PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- 11. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS SWALE PAVEMENT MARKINGS OR SIGNAGE DISTURBED DURING DEMOLITION AND/OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE CIVIL ENGINEER, AND TO THE SATISFACTION OF THE OWNER AND SUSQUEHANNA TOWNSHIP.
- 12. ALL CONSTRUCTION WITHIN A PENNDOT RIGHT OF WAY SHALL COMPLY WITH ALL DEPARTMENT OF TRANSPORTATION STANDARDS AND

AREA AND BULK REGULATIONS

| LUCA | LOCATION: INTERSECTION OF LINGLESTOWN ROAD & CUMBERLAND AVENUE | | | | |
|--------|--|---------------|---|-----------------|--|
| ZONE | : BOR - BUSINESS/OFFICE/RESIDE | ENTIAL | | | |
| USE: (| OFFICE | | | | |
| # | ITEM | SECTION | REQUIREMENTS | PROPOSED | |
| 1 | MINIMUM LOT SIZE | §27-1004.1. | 15,000 SQ FT | 51,635.02 SQ FT | |
| 2 | FRONT BUILDING SETBACK | §27-1004.1. | 25 FT | 25 FT | |
| 3 | MINIMUM SIDE YARD | §27-1004.1. | 10 FT | 33 FT | |
| 4 | MINIMUM REAR YARD | §27-1004.1. | 25 FT | 427 FT | |
| 5 | MINIMUM PARKING SETBACK | §27-2305.4.B | OUTSIDE SETBACKS/ BUFFER YARDS | 35' | |
| 6 | MINIMUM LOT WIDTH | §27-1004.1. | 150 FT | 200 FT | |
| 7 | BUILDING COVERAGE | §27-1004.1. | 35% | 0.44% | |
| 8 | MAXIMUM IMPERVIOUS | §27-1004.1. | 80% | 22.83% | |
| 9 | BUILDING HEIGHT | §27-1004.2. | 42 FT | <u><</u> 42' | |
| 10 | PARKING REQUIRMENTS | §27-2302.2.D. | 1 SPACE PER 250 SQ FT OF GROSS FLOOR AREA (3,000 SQ FT/250 SQ FT = 12) | 21 | |

CERTIFICATION OF OWNSERSHIP AND ACKNOWLEDGEMENT OF PLAN

| R | COMMONWEALTH OF PENNSYLVANIA COUNTY OF ON THIS THE DAY OF BEFO PERSONALLY APPEARED | |
|-----------|---|---|
| NT | OWNER(S) | |
| DR . | OWNER(S) | |
| | · /- | |
| 1 | WHO BEING DULY SWORN ACCORDING TO LAY, DE THE PROPERTY SHOWN ON THIS PLAN AND THAT T AND DEED AND DESIRE THE SAME TO BE RECORDE | THEY ACKNOWLEDGE THE SAME TO BE THEIR ACT |
| IE ES. | WITNESS MY HAND AND NOTARIAL SEAL THE DAY A | AND DATE ABOVE WRITTEN. |
| DN. | NOTARY PUBLIC | MY COMMISSION EXPIRES |

BMP ACKNOWLEDGEMENT

| I ACKNOWLEDGE THAT THE STORMWATER BMP'S ARE FIXTURES | THAT | CANNOT | ВE |
|---|------|--------|----|
| ALTERED OR REMOVED WITHOUT PRIOR APPROVAL BY SUSQUEHANNA TOWNSHIP | | | |
| | | | |
| | | | |
| | | | |
| | | | |

OPERATION AND MAINTENANCE (O&M)

| I ACKNOWLEDGE THAT THE CONTROL OF THE STORMWATER SITE PLAN | OPERATION AND MAINTENANCE AGREEMENT IS PAI |
|--|--|
| | |
| OWNER | DATE |

COUNTY PLANNING COMMISSION

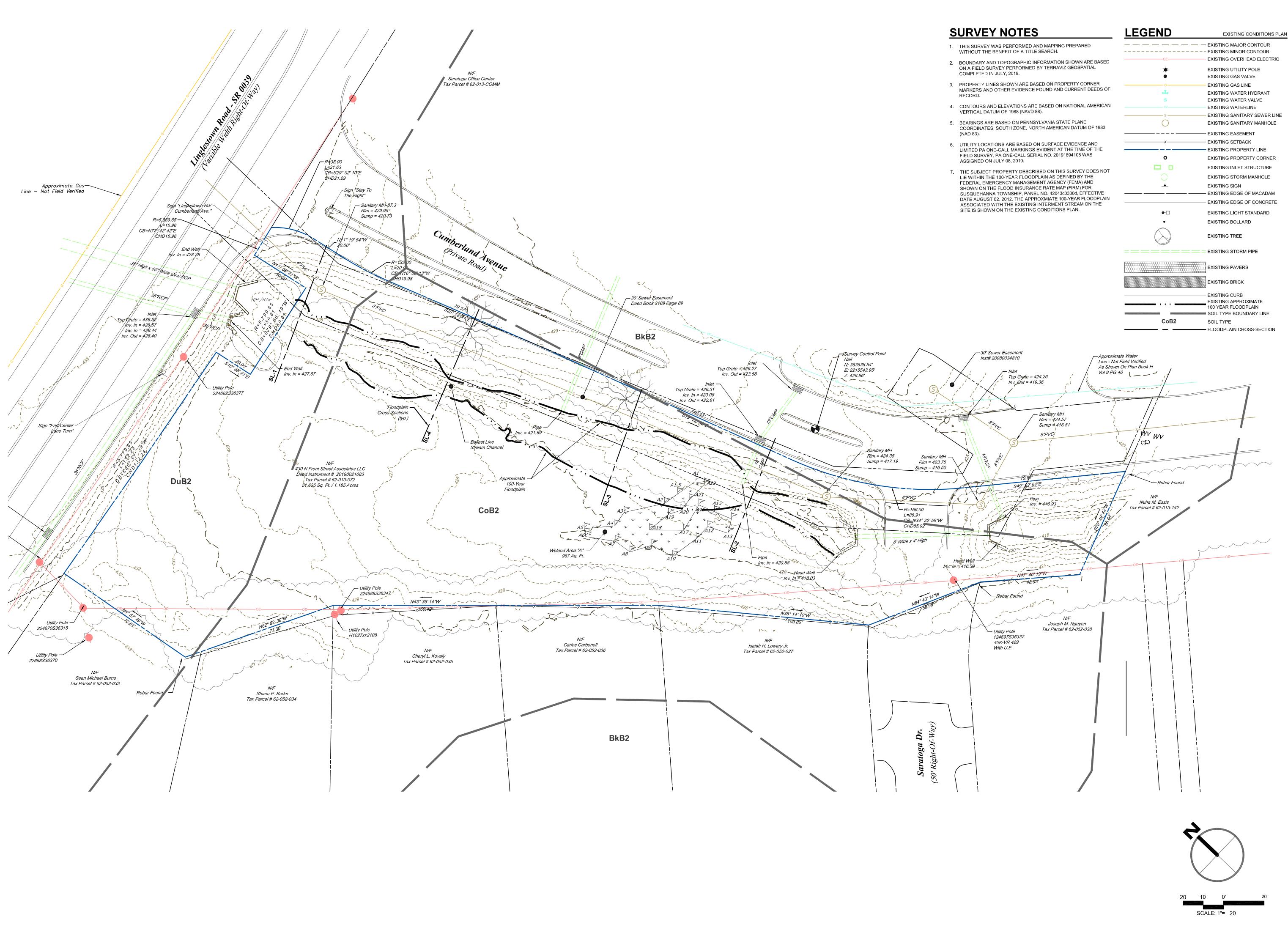
| OIVID | | | THIS PLAN REVIEWED BY DAUPHIN COUNTY PLANNING COMMISSION REVIEWED THIS |
|-------|-----------------------------------|-----------------|--|
| | | | |
| | REQUIREMENTS | PROPOSED | CHAIRMAN SECRETARY |
| | 15,000 SQ FT | 51,635.02 SQ FT | TOWNSHIP ENGINEER |
| | 25 FT | 25 FT | THIS PLAN REVIEWED BY THE SUSQUEHANNA TOWNSHIP ENGINEER THIS DAY |
| | 10 FT | 33 FT | |
| | 25 FT | 427 FT | TOWNSHIP ENGINEER |
| 3 | OUTSIDE SETBACKS/ BUFFER YARDS | 35' | TOWNSHIP PLANNING COMMISSION |
| | 150 FT | 200 FT | THIS PLAN RECOMMENDED FOR APPROVAL BY THE SUSQUEHANNA TOWNSHIP PLANNING DAY OF, 20 |
| | 35% | 0.44% | |
| | 80% | 22.83% | CHAIRMAN |
| | 42 FT | <u><</u> 42' | |
| | 1 SPACE PER 250 SQ | | SECRETARY |

BOARD OF COMMISSIONERS

| THIS PLAN APPROVED BY THE SUSQUEHANNA TOWNSHIP BOARD OF COMMISSIONERS, AND ALL IMPOSED WITH RESPECT TO SUCH APPROVAL WERE COMPLETED ON THIS DAY OF _ | |
|--|---|
| CHAIRMAN | - |
| SECRETARY | - |
| RECORDER OF DEEDS | |
| THIS PLAN RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS IN AND FOR DAUPHIN COUNTY THIS DAY OF 200 | |
| PLAN BOOK VOLUME PAGE | |

PLAN DATES

ISSUE DATE: NOVEMBER 4, 2019



INTEGRATED
DEVELOPMENT PARTNERS

430 NORTH FRONT STREET

430 NORTH FRONT STREET WORMLEYSBURG | PA | 17043 717.773.6084 www.IntegratedDP.com

U Z

CE BUILDING S, LLC

AD SITE OFFICE B TREET ASSOCIATES, LLC

430 N. FRONT STOWNSHIP

DEVELOPMENT

AND

PROFESSIONAL SEAL

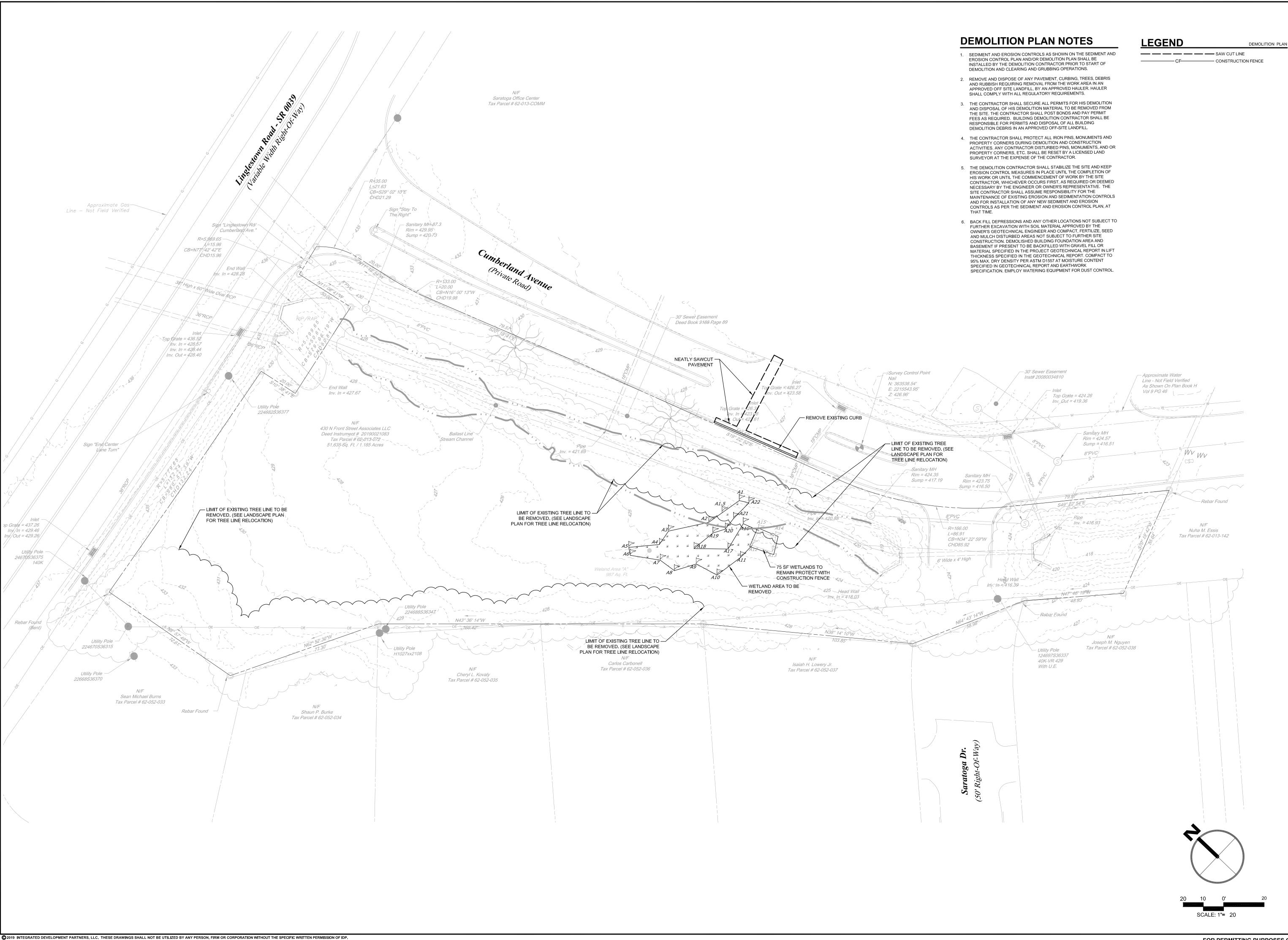
DRAWN REVIEWED

CONDITIONS PLAN

EXISTING

SHEET NO.

TITLE



INTEGRATED DEVELOPMENT PARTNERS

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BUILDII OFFICI

LAND DEVELOPMENT

430 N. FRONT STOWN

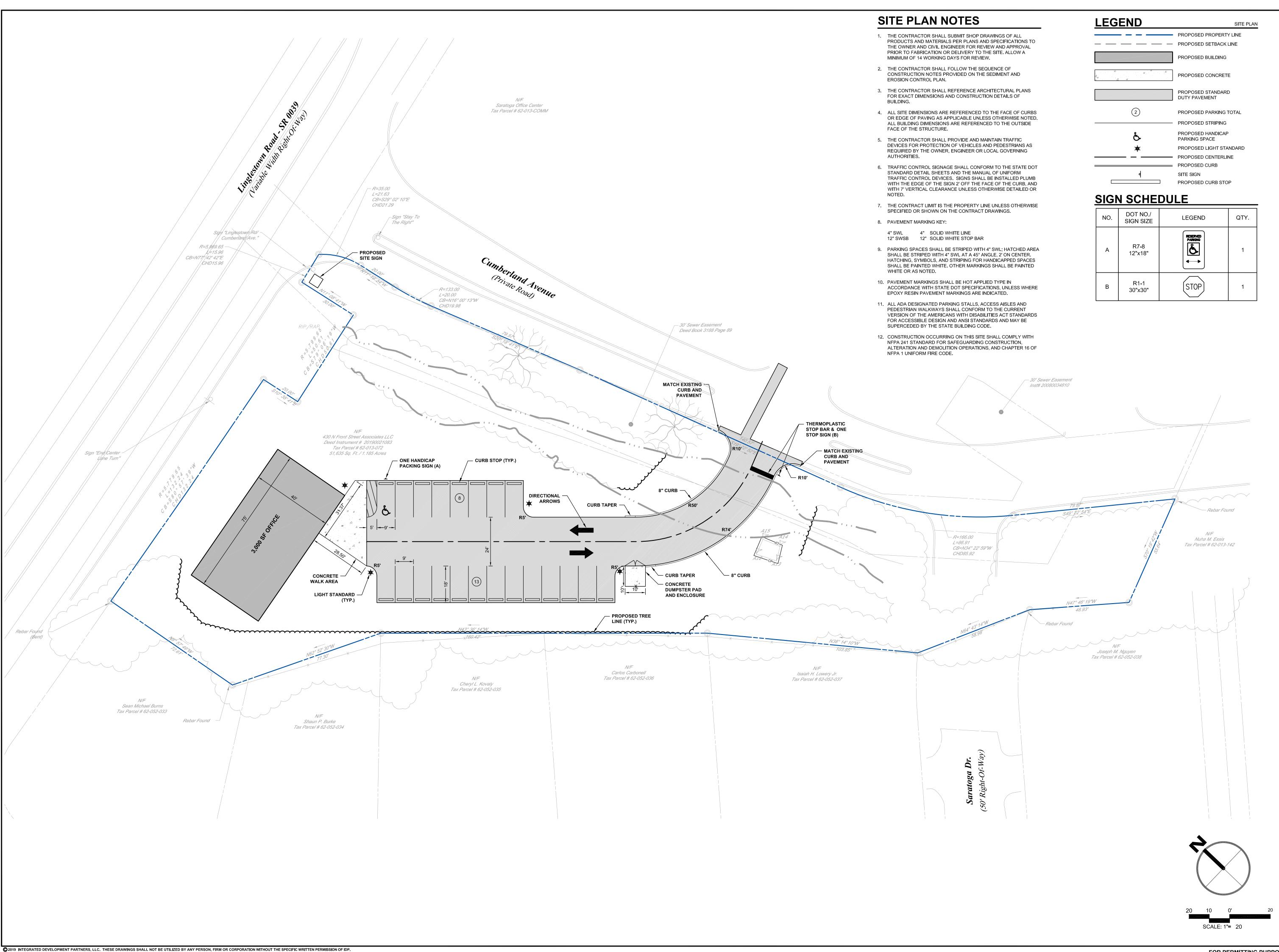
PROFESSIONAL SEAL

DRAWN REVIEWED SCALE AS NOTED DATE PROJECT NO. 19-0045 CAD FILE: 03 - DEMOLITION PLAN

DEMOLITION PLAN

SHEET NO.

TITLE



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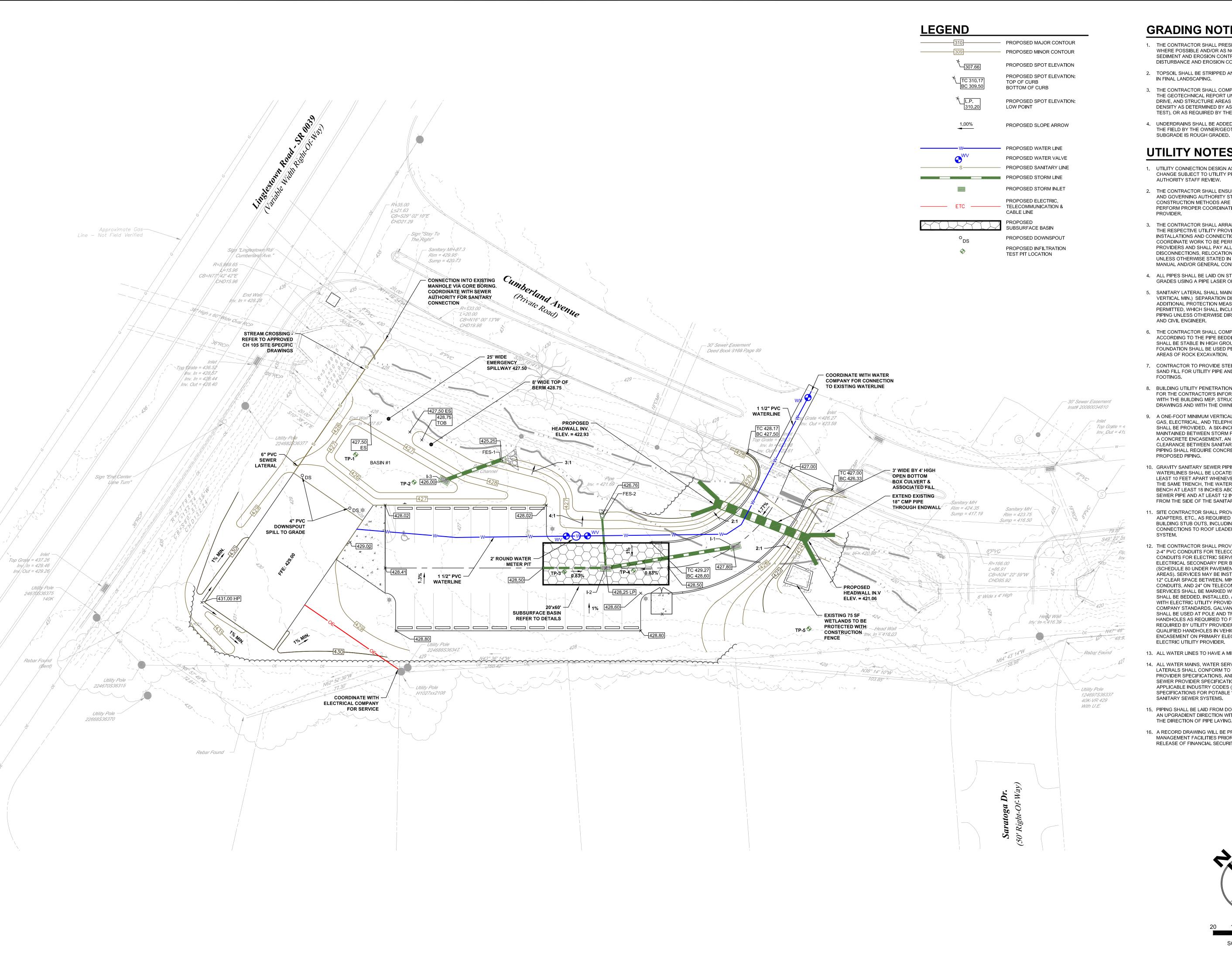
Ē 430 N. FRONT

LAND DEVELOPMENT

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TITLE SITE PLAN

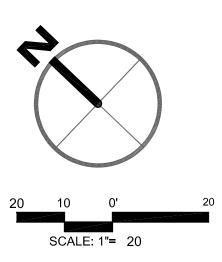


GRADING NOTES

- 1. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO SEDIMENT AND EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.
- 2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE
- 3. THE CONTRACTOR SHALL COMPACT FILL IN LIFT THICKNESS PER THE GEOTECHNICAL REPORT UNDER ALL PARKING, BUILDING, DRIVE, AND STRUCTURE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
- 4. UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE OWNER/GEOTECHNICAL ENGINEER, AFTER

UTILITY NOTES

- 1. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.
- 2. THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY
- 3. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
- 4. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 5. SANITARY LATERAL SHALL MAINTAIN (10' MIN. HORIZONTAL 1.5' VERTICAL MIN.) SEPARATION DISTANCE FROM WATER LINES, OR ADDITIONAL PROTECTION MEASURES WILL BE REQUIRED WHERE PERMITTED. WHICH SHALL INCLUDE CONCRETE ENCASEMENT OF PIPING UNLESS OTHERWISE DIRECTED BY THE UTILITY PROVIDERS AND CIVIL ENGINEER.
- 6. THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.
- 7. CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNULAR SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER
- 8. BUILDING UTILITY PENETRATIONS AND LOCATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED WITH THE BUILDING MEP, STRUCTURAL, AND ARCHITECTURAL DRAWINGS AND WITH THE OWNER'S CONSTRUCTION MANAGER.
- 9. A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND STORM PIPING SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM PIPING AND SANITARY SEWER WITH A CONCRETE ENCASEMENT. AN 18-INCH TO 6-INCH VERTICAL CLEARANCE BETWEEN SANITARY SEWER PIPING AND STORM PIPING SHALL REQUIRE CONCRETE ENCASEMENT OF THE PROPOSED PIPING.
- 10. GRAVITY SANITARY SEWER PIPING AND PRESSURIZED WATERLINES SHALL BE LOCATED IN SEPARATE TRENCHES AT LEAST 10 FEET APART WHENEVER POSSIBLE. WHEN INSTALLED IN THE SAME TRENCH, THE WATER PIPE SHALL BE LAID ON A TRENCH BENCH AT LEAST 18 INCHES ABOVE THE TOP OF THE SANITARY SEWER PIPE AND AT LEAST 12 INCHES (PREFERABLY 18 INCHES) FROM THE SIDE OF THE SANITARY SEWER PIPE TRENCH.
- 11. SITE CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC., AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING STUB OUTS, INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE
- 12. THE CONTRACTOR SHALL PROVIDE AND INSTALL AND BACKFILL 2-4" PVC CONDUITS FOR TELECOMMUNICATIONS SERVICE, 2-4" PVC CONDUITS FOR ELECTRIC SERVICE PRIMARY, PVC CONDUITS FOR ELECTRICAL SECONDARY PER BUILDING ELECTRICAL PLANS. (SCHEDULE 80 UNDER PAVEMENT, SCHEDULE 40 IN NON PAVEMENT AREAS). SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 12" CLEAR SPACE BETWEEN. MINIMUM COVER IS 36" ON ELECTRIC CONDUITS, AND 24" ON TELECOMMUNICATIONS CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE AND SHALL BE BEDDED, INSTALLED, AND BACKFILLED IN ACCORDANCE WITH ELECTRIC UTILITY PROVIDER, AND TELECOMMUNICATIONS COMPANY STANDARDS. GALVANIZED STEEL ELECTRICAL CONDUIT SHALL BE USED AT POLE AND TRANSFORMER LOCATIONS. INSTALL HANDHOLES AS REQUIRED TO FACILITATE INSTALLATION AND AS REQUIRED BY UTILITY PROVIDER. INSTALL TRAFFIC LOAD QUALIFIED HANDHOLES IN VEHICULAR AREAS, INSTALL CONCRETE ENCASEMENT ON PRIMARY ELECTRIC CONDUITS IF REQUIRED BY
- 13. ALL WATER LINES TO HAVE A MINIMUM COVER OF 48".
- 14. ALL WATER MAINS, WATER SERVICES AND SANITARY SEWER LATERALS SHALL CONFORM TO THE APPLICABLE WATER UTILITY PROVIDER SPECIFICATIONS, AND TO THE APPLICABLE SANITARY SEWER PROVIDER SPECIFICATIONS, AS WELL AS TO OTHER APPLICABLE INDUSTRY CODES (AWWA) AND PROJECT SPECIFICATIONS FOR POTABLE WATER SYSTEMS, AND FOR SANITARY SEWER SYSTEMS.
- 15. PIPING SHALL BE LAID FROM DOWNGRADIENT END OF PIPE RUN IN AN UPGRADIENT DIRECTION WITH BELL END FACING UPGRADE IN THE DIRECTION OF PIPE LAYING.
- 16. A RECORD DRAWING WILL BE PROVIDED FOR ALL STORMWATER MANAGEMENT FACILITIES PRIOR TO OCCUPANCY, OR THE RELEASE OF FINANCIAL SECURITY.





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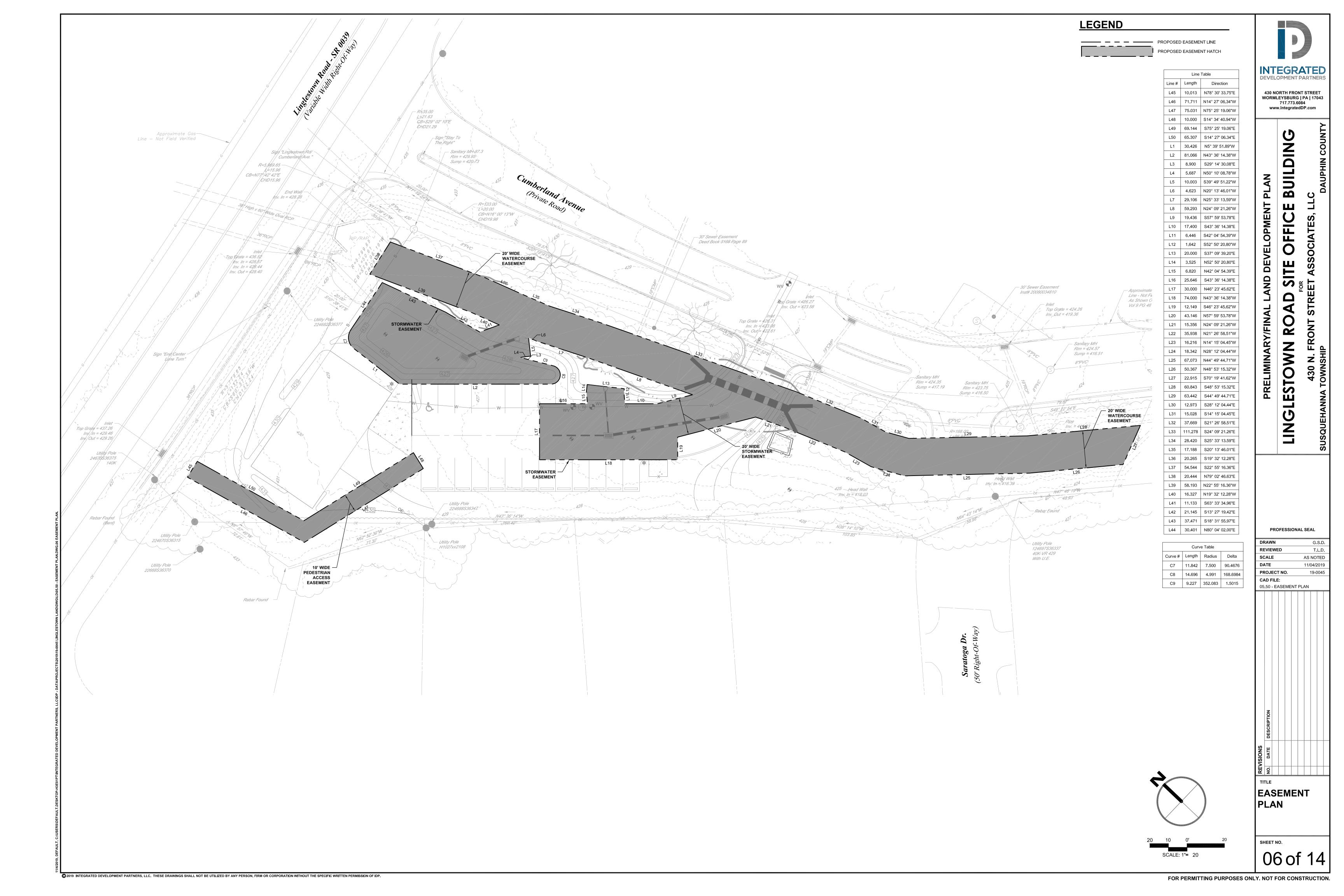
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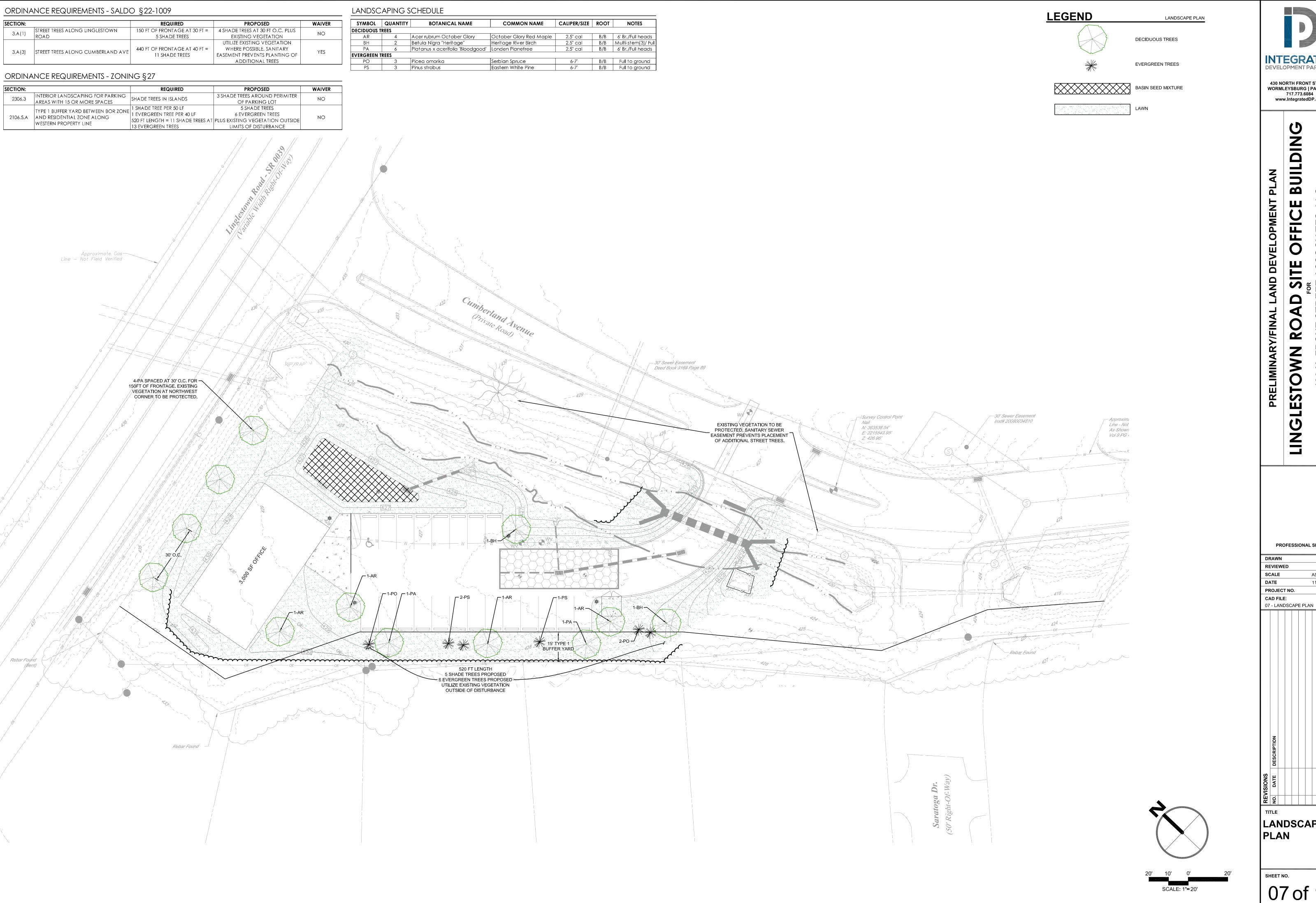
PROFESSIONAL SEAL

DRAWN G.S.D. REVIEWED T.L.D. SCALE AS NOTED DATE PROJECT NO. 19-0045 CAD FILE: 05 - GRADING & UTILITY PLAN

TITLE GRADING,

DRAINAGE AND UTILITY PLAN





INTEGRATED DEVELOPMENT PARTNERS

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BUILDIN

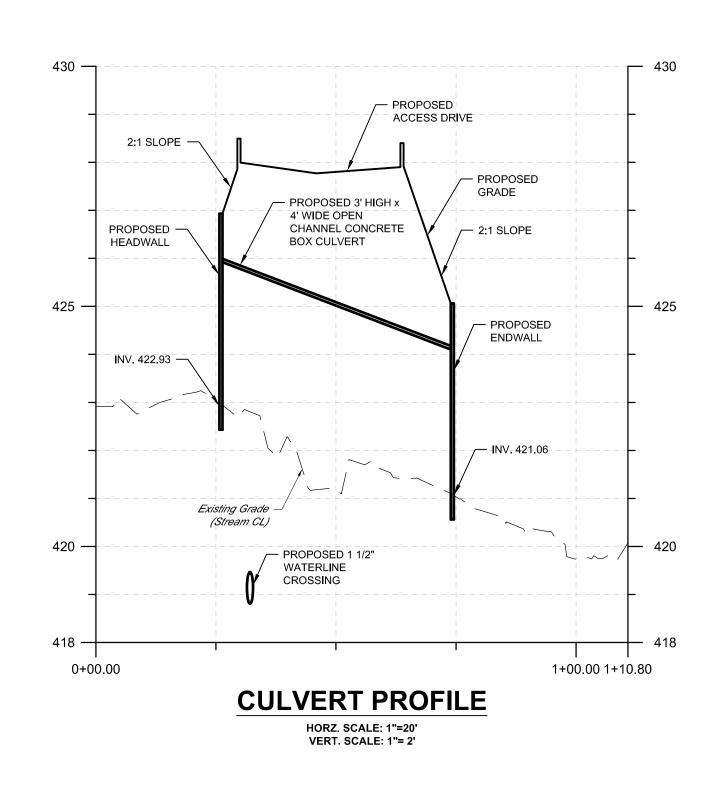
OFFICE

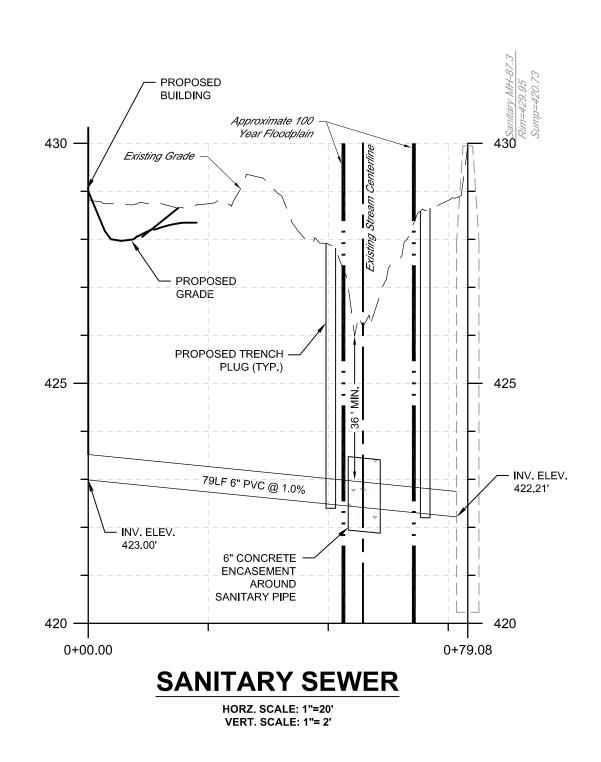
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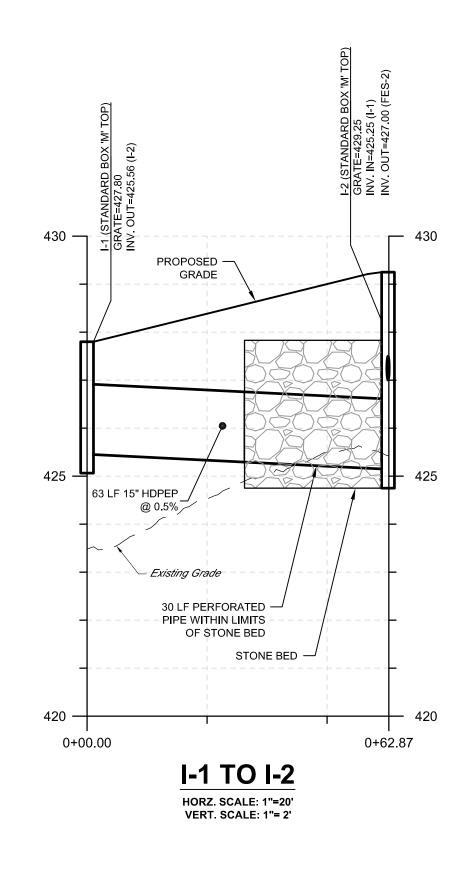
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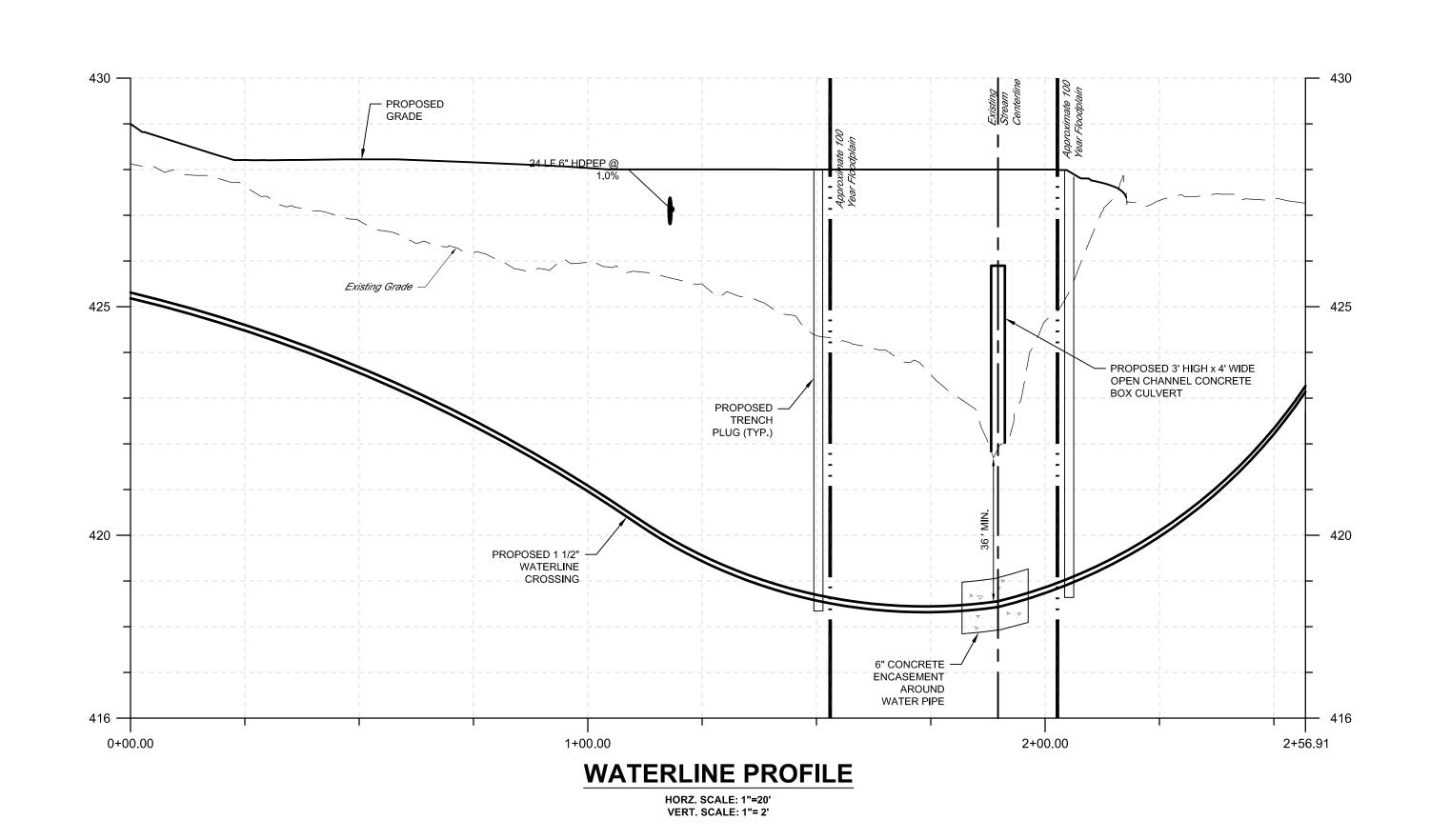
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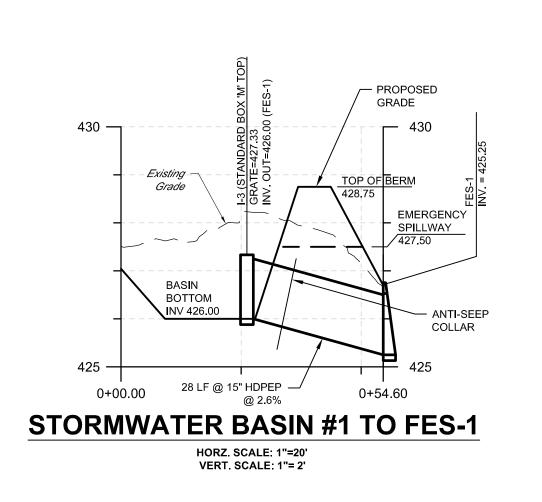
LANDSCAPE PLAN













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BUILDIN

LAND DEVELOPMENT PLAN OFFICE

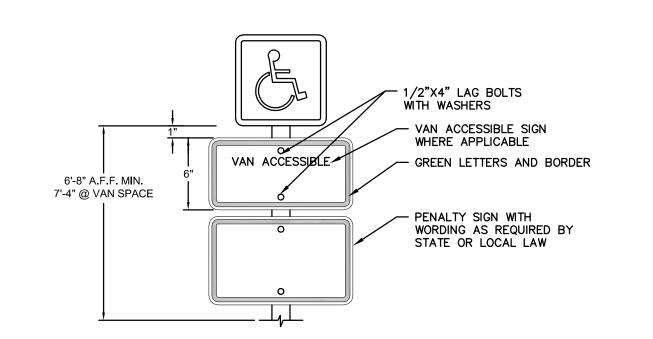
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TOWNSHIP

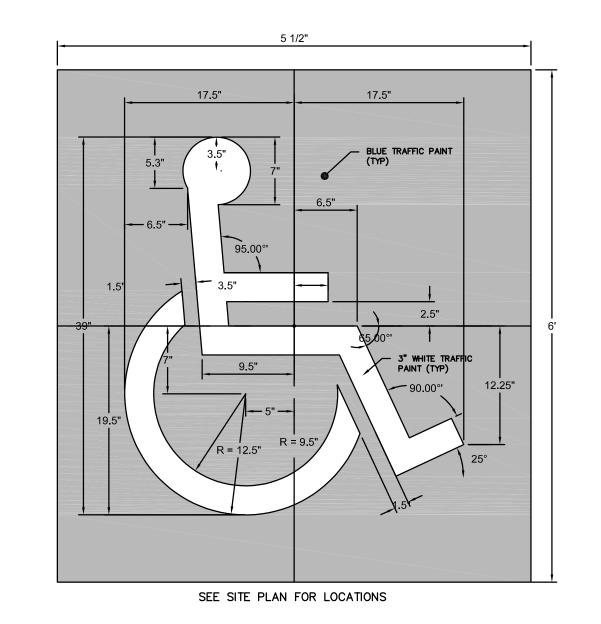
PROFESSIONAL SEAL DRAWN REVIEWED SCALE AS NOTED DATE PROJECT NO. CAD FILE: 08 - PROFILES

PROFILES

TITLE

SHEET NO. 08 of 14





PAINTED HANDICAP SYMBOL AND SIGNAGE

STACKED CLAY, BENTONITE, OR CONCRETE—FILLED SACKS

TRENCH BOTTOM

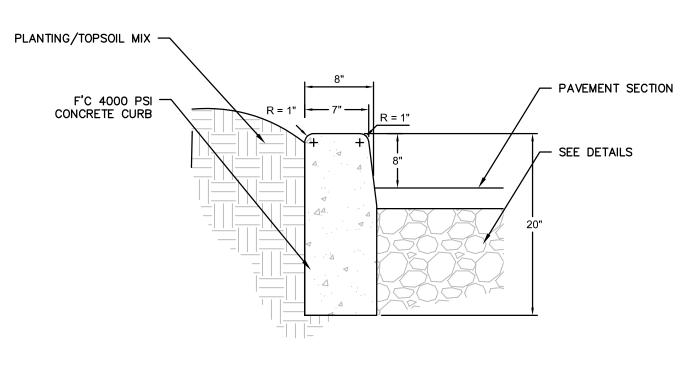
PLUG MATERIAL

* CLAY, BENTONITE, OR CONCRETE FILLED SACKS

* CLAY, BENTONITE, OR CONCRETE FILLED SACKS

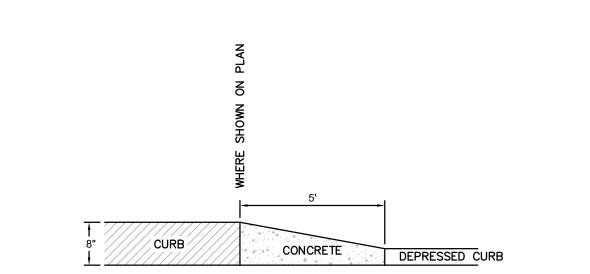
* CLAY, BENTONITE, OR CONCRETE FILLED SACKS

CEMENT FILLED BAGS (WETTED) OR MORTARED STONE



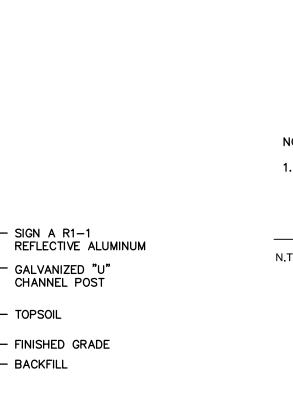
8" REVEAL CONCRETE CURB

N.T.S



8" CURB REVEAL TO DEPRESSED CURB

N.T.S



→ BACKFILL

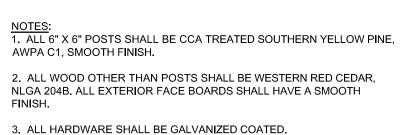
CONCRETE BASE

NOTES: 1. CONSTRUCT SIGN IN ACCORDANCE WITH PENNDOT SPECIFICATIONS.

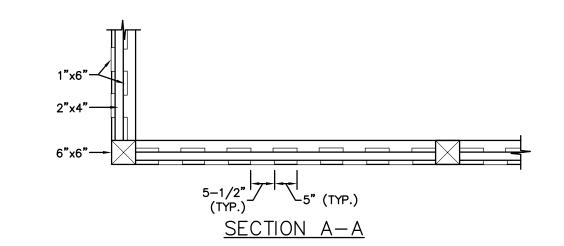
7'-0" MIN.

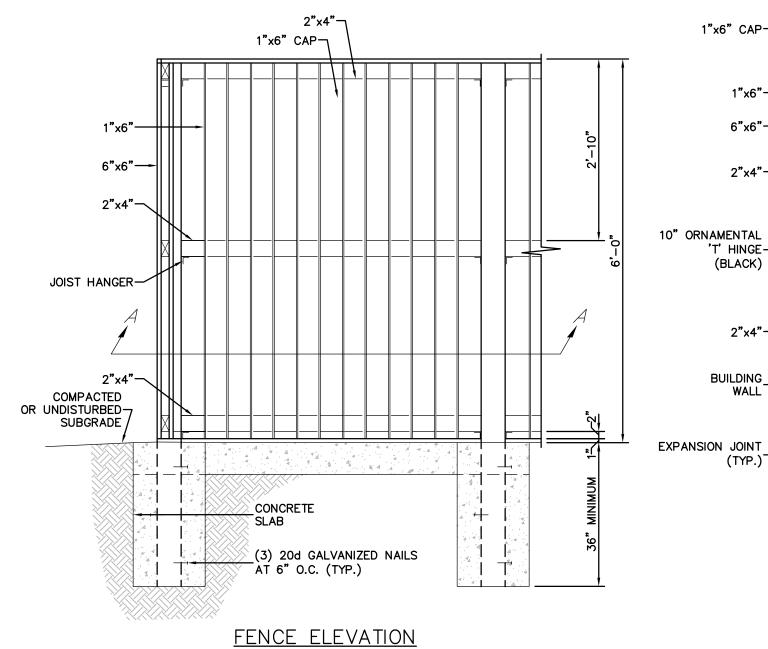
STOP SIGN

N.T.S



4. ALL EXPOSED HARDWARE SHALL HAVE A BLACK FINISH.





DUMPSTER PAD ENCLOSURE

10" ORNAMENTAL

(BLACK)

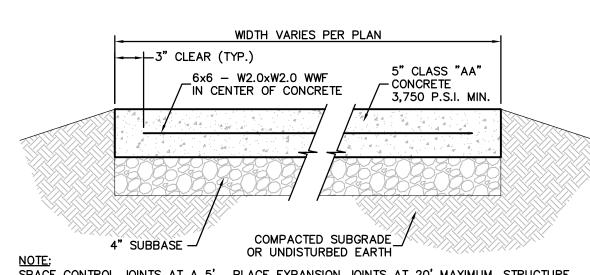
BUILDING_

/ 1.5" DEPTH, SAMD HMA WEARING COURSE - 4" DEPTH, SAMD HMA BINDER COURSE - 6" DEPTH, PENNDOT NO. 2A CRUSHED AGGREGATE BASE COURSE - COMPACTED SUBGRADE TO 95% MAXIMUM DRY DENSITY PER ASTM D1557 WITHIN 3% \pm OF OPTIMUM MOISTURE CONTENT

1. ALL PAVING MATERIALS AND INSTALLATION PROCEDURES SHALL CONFORM TO PENNDOT STANDARDS, PUB. 408.

STANDARD DUTY BITUMINOUS PAVING

N.T.S

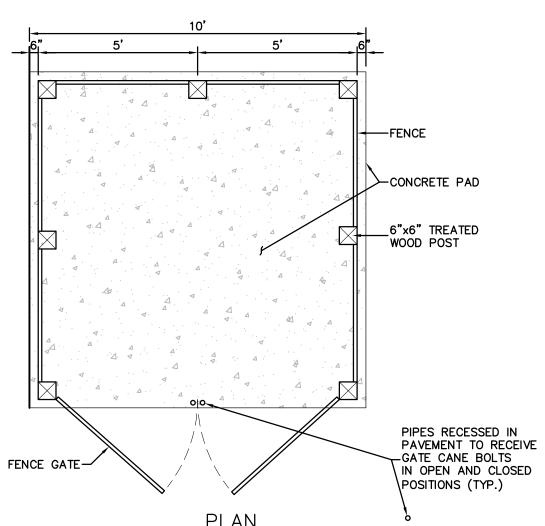


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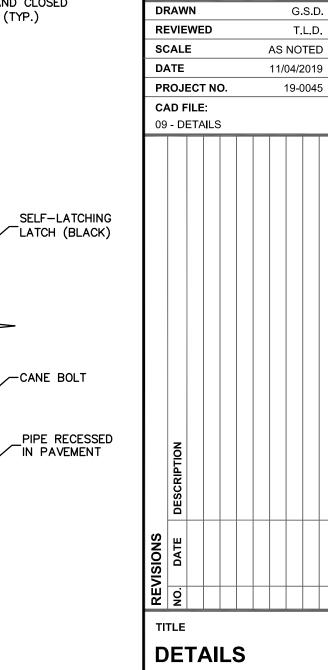
SPACE CONTROL JOINTS AT A 5'. PLACE EXPANSION JOINTS AT 20' MAXIMUM, STRUCTURE FACE, AND MATCH EXISTING IF APPLICABLE.

CONCRETE SIDEWALK

N.T.S



GATE ELEVATION



PROFESSIONAL SEAL

INTEGRATED DEVELOPMENT PARTNERS

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LAND DEVELOPMENT

PRELIMINARY/FINAL

430 N. FRONT STOWNSHIP

09 of 14

TYPICAL TRENCH PLUG INSTALLATION DETAIL

IMPERVIOUS TRENCH PLUGS ARE REQUIRED FOR ALL STREAM, RIVER, WETLAND, OR OTHER WATER BODY CROSSINGS.

SECTION VIEW

PIPE INVERT

SPACING L (FT)

1,000

500

300

200

100

50

TRENCH PLUG SPACING (L)

FULL TRENCH DEPTH

TRENCH SLOPE (%)

< 5

5 - 15

15 - 25

25 - 35

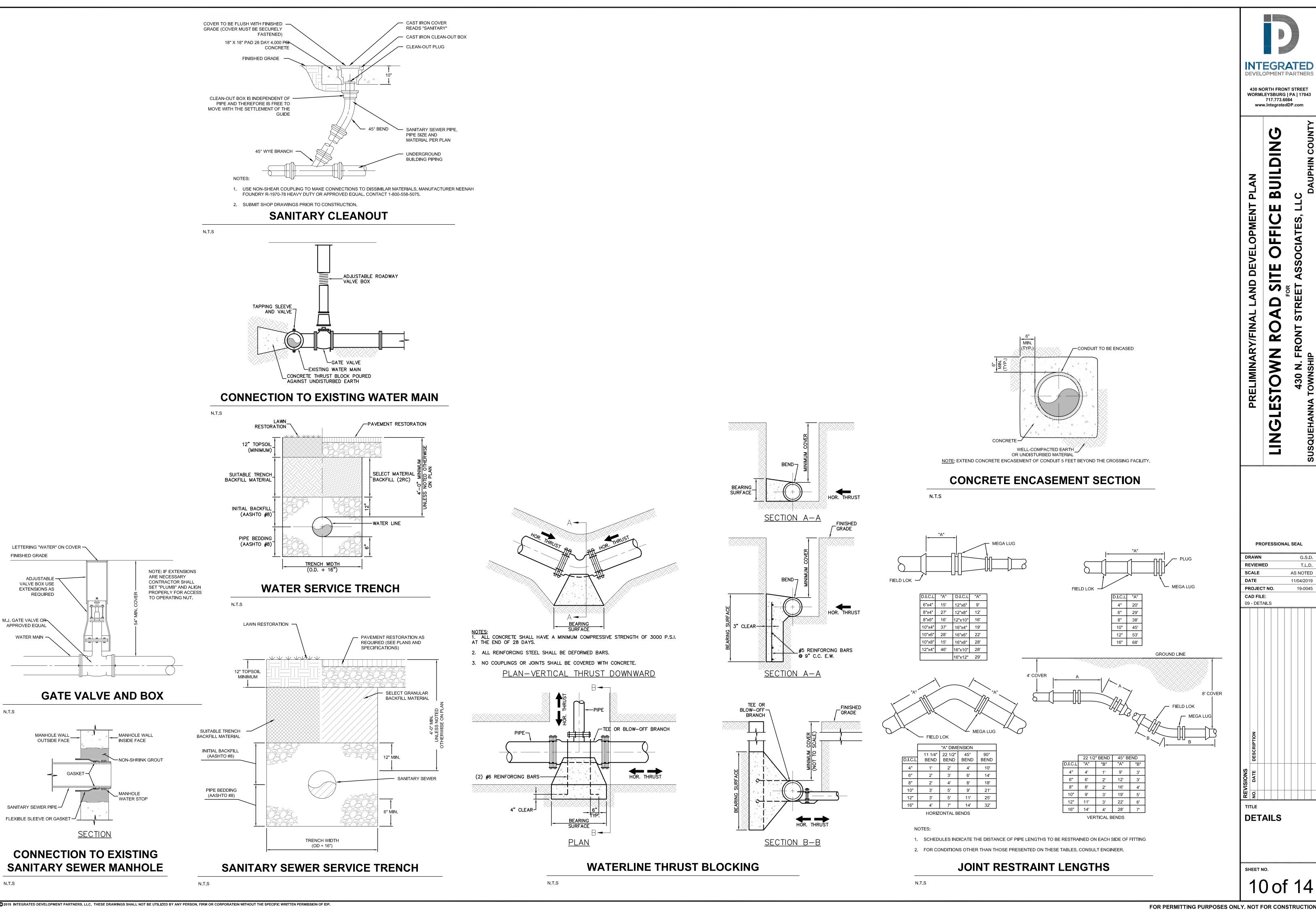
35 - 100

> 100

N.T.S

*TOPSOIL MAY NOT BE USED TO FILL SACKS.

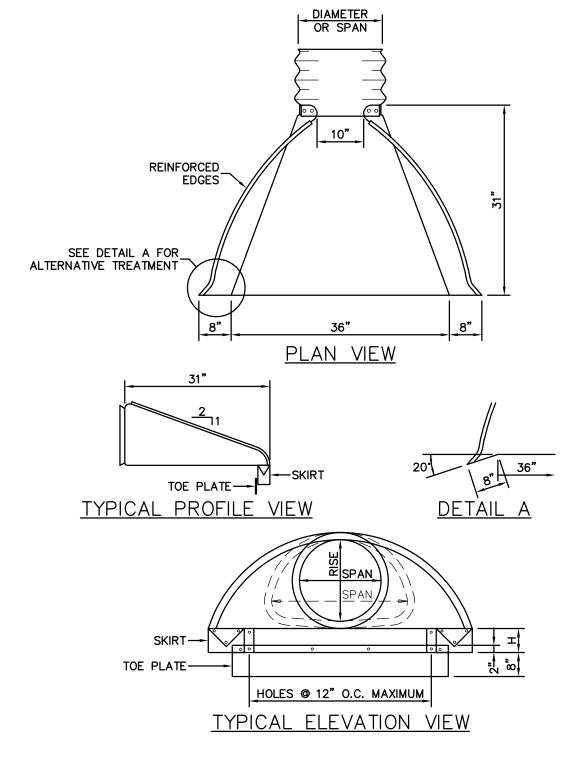
FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.



FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

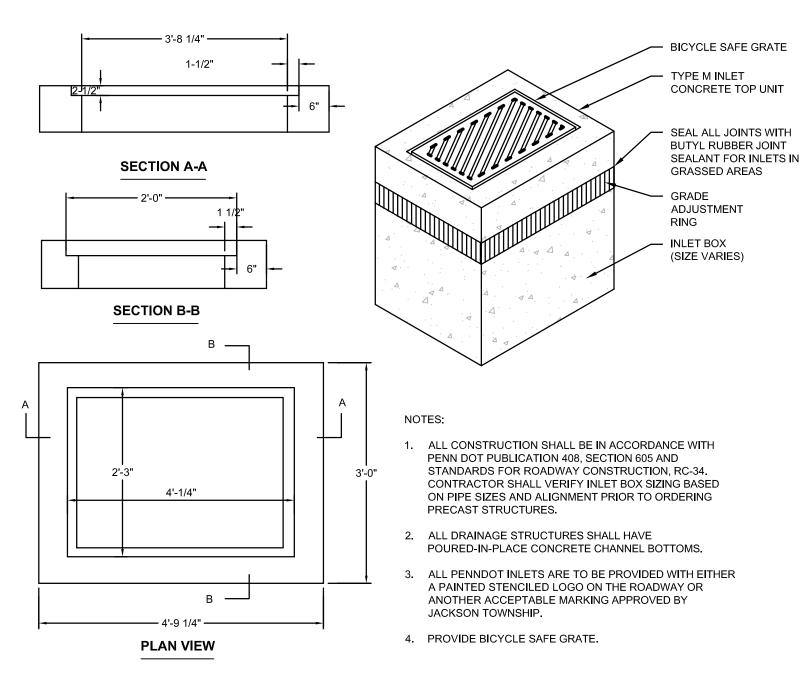
430 N. FRONT STOWNSHIP

19-0045



FLARED END SECTION

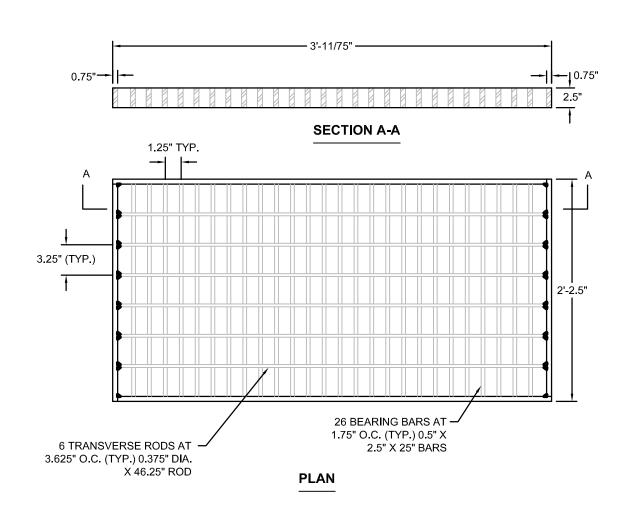
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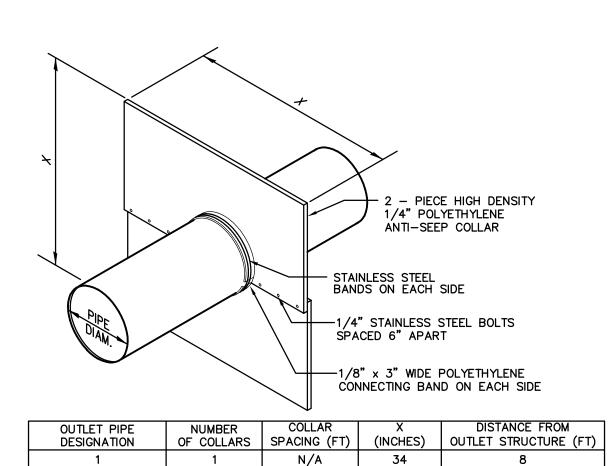
TYPE "M" INLET

N.T.S

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STRUCTURAL STEEL BICYCLE SAFE GRATE



NOTES:

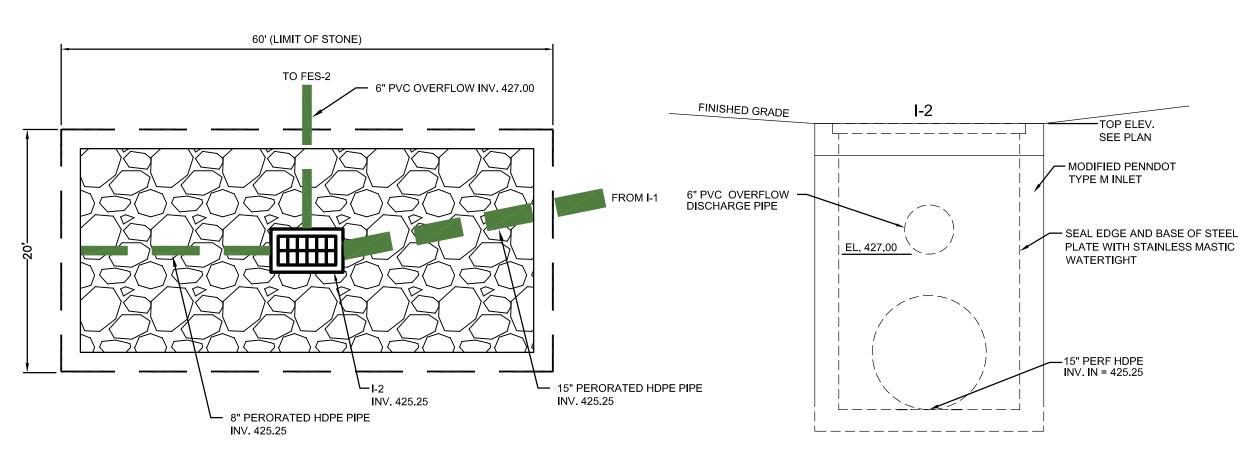
1. SEE BASIN EMBANKMENT DETAIL FOR LOCATION WITHIN BERM.

2. APPLY MASTIC TO CONNECTING BANDS AND SET IN PLACE. BOLT HALVES TOGETHER & INSTALL METAL BANDS ON SPLIT HALVES OF COLLAR. TIGHTEN BOLTS AND BANDS. APPLY MASTIC AS NEEDED TO INSURE GOOD SEAL. BACKFILL AND HAND TAMP.

3. DO NOT LOCATED AN ANTI-SEEP COLLAR CLOSER THAN 2 FEET TO A PIPE JOINT.

HDPE ANTI-SEEP COLLAR DETAIL

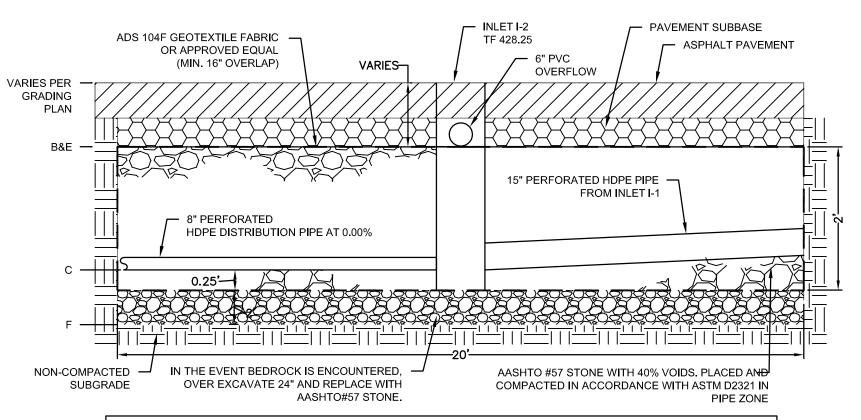
N.T.S



SUITABLE MATERIAL

DUMPED 2A STONE

N.T.S



| | SUBSURFACE INFILTRATION BASIN DESIGN DATA | | | | | |
|------------|---|-------------------|---------------|-----------------------|---------------------|------------------------|
| BASIN ID | STRUCTURE ID | INVERT OUT (B) | INVERT IN (C) | ORIFICE INVERT (D) | TOP OF STONE (E) | BOTTOM OF STONE (F) |
| SUBSURFACE | I-2 | 427.00 | 425.25 | 427.00 | 427.00 | 425.00 |

1. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW

APPLICATIONS ", LATEST EDITION.

- 2. ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
- MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM 02321.
- 4. FILTER FABRIC: A GEOTEXTILE FABRIC SHALL BE USED TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 6".
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED ASTM D2321, LATEST EDITION.
- 8. MINIMUM COVER: MINIMUM COVER OVER ALL RETENTION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 36" DIAMETER PIPE AND 24" OF COVER FOR 42" - 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

SUBSURFACE INFILTRATION FACILITY

N.T.S



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MIN. 97%

COMPACTION

6" MIN.

STORM PIPE TRENCH SECTION

COMPACTION

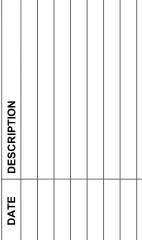
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430 N. FRONT

PROFESSIONAL SEAL DRAWN REVIEWED SCALE AS NOTED

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TITLE DETAILS



INTEGRATED
DEVELOPMENT PARTNERS

430 NORTH FRONT STREET
WORMLEYSBURG | PA | 17043

430 NORTH FRONT STREET WORMLEYSBURG | PA | 17043 717.773.6084 www.IntegratedDP.com

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OFFICE BUILDIN

LAND DEVELOPMENT PLAN

PRELIMINARY/FINAL

ESTOWN ROAD SITE OFFICE ASO N. FRONT STREET ASSOCIATE NA TOWNSHIP

PROFESSIONAL SEAL

DRAWN G.S.D.
REVIEWED T.L.D.
SCALE AS NOTED
DATE 11/04/2019
PROJECT NO. 19-0045
CAD FILE:
10 - E&S PLAN

TITLE E&S PLAN

SHEET NO.

MULCHING

MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN TABLE 11.6

STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45°F ARE TYPICALLY REQUIRED. APPLICATION SHOULD GENERALLY BE HEAVIEST AT EDGES OF SEEDED AREAS AND AT CRESTS OF RIDGES AND BANKS TO PREVENT LOSS BY WIND, THE REMAINDER OF THE AREA SHOULD HAVE BINDER APPLIED UNIFORMLY BINDERS MAY BE APPLIED AFTER MULCH IS SPREAD OR SPRAYED INTO THE MULCH AS IT IS BEING BLOWN ONTO THE SOIL. APPLYING STRAW AND BINDER TOGETHER IS GENERALLY MORE EFFECTIVE.

SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES.

MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT

| TABLE 11.6 | | | | | |
|------------|----------|-------------------|-------------------|--|--|
| | | MULCH | APPLICATION RATES | | |
| MULCU TYPE | | APPLICATION RATE | (MIN.) | NOTES | |
| MULCH TYPE | PER ACRE | PER 1,000 SQ. FT. | PER 1,000 SQ. YD. | NOTES | |
| STRAW | 3 TONS | 140 LB. | 1,240 LB. | EITHER WHEAT OR OAT STRAW, FREI OF WEEDS, NOT CHOPPED OR FINEL' BROKEN | |
| HAY | 3 TONS | 140 LB. | 1,240 LB. | TIMOTHY, MIXED CLOVER AND TIMOTH OR OTHER NATIVE FORAGE GRASSES | |
| WOOD CHIPS | 4-6 TONS | 185-275 LB. | 1,650-2,500 LB. | MAY PREVENT GERMINATION OF GRASSES AND LEGUMES | |
| HYDROMULCH | 1 TON | 47 LB. | 415 LB. | SEE LIMITATIONS ABOVE | |

SOIL LIMITATIONS AND RESOLUTIONS

BkB2: BERKS CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES CoB2: COMLY SILT LOAM, 2 TO 8 PERCENT SLOPES, MODERATELY ERODED DuB2: DUFFIELD SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED

LIMITATIONS:

- CUTBANKS CAVE CORROSION OF UNCOATED STEEL & CONCRETE
- HYDRIC / HYDRIC INCLUSIONS LOW STRENGTH, LANDSLIDE PRONE
- SLOW PERCOLATION
- POOR SOURCE OF TOPSOIL
- MODERATE POTENTIAL FOR FROST ACTION LOW SHRINK/SWELL
- WETNESS

RESOLUTION: EXCAVATIONS WILL BE PROPERLY SUPPORTED BY SHEETING AND SHORING TO PREVENT CAVES.

- NO STEEL IS EXPECTED TO BE IN DIRECT CONTACT WITH SOILS NO WETLANDS ARE PRESENT IN THE DEVELOPMENT AREA.
- A MAXIMUM OF 3:1 SLOPES ARE PROPOSED. A FIELD INVESTIGATION OF PERCOLATION RATES AT THE INFILTRATION AREAS WAS PERFORMED TO VERIFY THE SOILS
- PERCOLATION CAPACITY
- 6. WATERTIGHT PIPE, ANTI-SEEP COLLARS, CLAY CORES THROUGH BASIN BERMS, AND CONCRETE ENDWALLS WILL BE USED TO MINIMIZE THE DANGER OF PIPING
- EXISTING TOPSOIL, WHICH HAS PROVEN TO BE SUITABLE WILL BE REUSED ON THE SITE PAVEMENT SUB-BASE WILL BE PROVIDED TO MINIMIZE FROST AFFECTS
- STONE BASE WILL BE PROVIDED TO PREVENT SHRINK-SWELL FROM EFFECTING PAVEMENT 10. PROVIDE POSITIVE DRAINAGE ACROSS THE SITE.

TEMPORARY SEEDING FOR SOIL STABILIZATION

| SEEDING MIXTURE TYPE I (TOPSOIL STOCKPILES) SPECIES: | ANNUAL RYEGRASS (70%) PERENNIAL RYEGRASS (30%) |
|--|---|
| % PURE LIVE SEED: APPLICATION RATE: FERTILIZER TYPE: FERT. APPLICATION RATE LIMING RATE: MULCH TYPE: MULCH TYPE: MULCH RATE: ANCHOR MATERIAL: ANCHORING METHOD: ANCHORING RATE OF APPLICATION: SEEDING DATE: | 95% 4LBS./MSF 10-10-10 12.5 LBS/1,000 SF 40 LBS/1,000 SF STRAW 140 LBS/1,000 SF EC3000 COPOLYMER TACKIFIER SLURRY, MIX AND SPRAY 3 LBS/ACRE AS REQUIRED |

SEED MIXTURES

CONFORMING TO THE PENNSYLVANIA SEED ACT OF 1965 (ACT NO. 187) AND AMENDMENTS, AND REGULATIONS OF THE PENNSYLVANIA DEPARTMENT OF AGRICULTURE, BUREAU OF PLANT INDUSTRY. HAVE THE PENNSYLVANIA DEPARTMENT OF AGRICULTURE, BUREAU OF PLANT INDUSTRY, CONDUCT PURITY AND GERMINATION ANALYSIS, FOLLOWING THE CURRENT RULES FOR TESTING SEEDS, OF THE ASSOCIATION OF OFFICIAL SEED ANALYSIS.

USE KENTUCKY BLUEGRASS, PERENNIAL RYEGRASS, CREEPING RED FESCUE, CHEWINGS FESCUE, HARD FESCUE, AND BIRDSFOOT TREFOIL SEED.

USE SEED, PRETESTED BY THE PENNSYLVANIA DEPARTMENT OF AGRICULTURE, IN 10-POUND (NET) WATERPROOF CONTAINERS,

USE A PREMIXED SEED WITH AN INSPECTION TAG, STAMPED, DATED, AND SIGNED BY THE DEPARTMENT OF AGRICULTURE INSPECTOR SEWN OR STAPLED TO THE OUTSIDE OF EACH BAG. DO NOT USE SEED FROM CONTAINERS THAT ARE NOT SEALED OR THAT HAVE BEEN STORED WITH HERBICIDES.

DO NOT USE SEED, UNLESS IT HAS BEEN INSPECTED AND SAMPLED, AS SPECIFIED, OR SAMPLED BY INDIVIDUAL SPECIES AND LOT NUMBER, AND MIXED, ON THE PROJECT, UNDER DEPARTMENT SUPERVISION. DO NOT USE SEED WHICH HAS A TEST DATE OLDER THAN NINE MONTHS.

PERMANENT SEED MIXTURES:

A. LAWN SEEDING MIXTURE: SPECIES: 15 % PERENNIAL RYEGRASS (BLEND OF 3 IMPROVED HYBRIDS) 25 % FINE LEAF OR CREEPING FESCUE (BLEND OF 3 IMPROVED HYBRIDS) 60 % KENTUCKY BLUEGRASS (BLEND OF 3 IMPROVED HYBRIDS) SEEDING RATE: 5 LBS/1.000 S.F. SEEDING DATES: AUGUST 15 - OCTOBER 1 AND APRIL 15 - JUNE 15

B. STEEP SLOPE SEED MIX

UNLESS OTHERWISE APPROVED BY OWNER.

| C | -l: D-4- | Native Steep Slope Mix w/ Annual Ryegrass (ERNMX-181) | | | | | | | | |
|---------|----------|--|--|--|--|--|--|--|--|--|
| | | 60 lb per acre | | | | | | | | |
| Mix | Туре | Erosion Control & Revegetation | | | | | | | | |
| | 28.7% | Sorghastrum nutans, PA Ecotype (Indiangrass, PA Ecotype) | | | | | | | | |
| | 20.0% | Lolium multiflorum (L. perenne var. italicum) (Annual Ryegrass) | | | | | | | | |
| | 11.0% | Andropogon gerardii, 'Niagara' (Big Bluestem, 'Niagara') | | | | | | | | |
| | 10.0% | Elymus virginicus, PA Ecotype (Virginia Wildrye, PA Ecotype) | | | | | | | | |
| | 7.6% | Tridens flavus (Purpletop) | | | | | | | | |
| | 7.0% | Elymus canadensis (Canada Wildrye) | | | | | | | | |
| | 4.2% | Schizachyrium scoparium (Andropogon scoparius), Fort Indiantown Gap-PA Ecotype (Little | | | | | | | | |
| List | | Bluestem, Fort Indiantown Gap-PA Ecotype) | | | | | | | | |
| | 3.0% | Panicum virgatum, 'Shawnee' (Switchgrass, 'Shawnee') | | | | | | | | |
| Species | 2.5% | Echinacea purpurea (Purple Coneflower) | | | | | | | | |
| Sp | 2.0% | Chamaecrista fasciculata (Cassia f.), PA Ecotype (Partridge Pea, PA Ecotype) | | | | | | | | |
| | 1.0% | Coreopsis lanceolata (Lanceleaf Coreopsis) | | | | | | | | |
| | 1.0% | Rudbeckia hirta, Coastal Plain NC Ecotype (Blackeyed Susan, Coastal Plain NC Ecotype) | | | | | | | | |
| | 0.7% | Lespedeza virginica, VA Ecotype (Slender Lespedeza, VA Ecotype) | | | | | | | | |
| ľ | 0.5% | Aster lateriflorus (Symphyotrichum lateriflorum) (Calico Aster) | | | | | | | | |
| | | Monarda fistulosa, Fort Indiantown Gap-PA Ecotype (Wild Bergamot, Fort Indiantown Gap-PA | | | | | | | | |
| | 0.5% | Ecotype) | | | | | | | | |
| | | Liatris spicata (Marsh (Dense) Blazing Star (Spiked Gayfeather)) | | | | | | | | |

C. NATIVE DETENTION AREA MIX

| | | Native Detention Area Mix (ERNMX-183) | | |
|--------------|-----|---|--|--|
| Seeding Rate | | 20 lb per acre, or 1/2 lb per 1,000 sq ft | | |
| Міх Туре | | Storm Water Management Facility Sites | | |
| | 25% | Deertongue, 'Tioga' (Panicum clandestinum (Dichanthelium c.), 'Tioga') | | |
| | 25% | Fox Sedge, PA Ecotype (Carex vulpinoidea, PA Ecotype) | | |
| ± | 20% | Virginia Wildrye, PA Ecotype (Elymus virginicus, PA Ecotype) | | |
| List | 20% | Switchgrass, 'Shawnee' (Panicum virgatum, 'Shawnee') | | |
| ies | 5% | Autumn Bentgrass, PA Ecotype (Agrostis perennans, PA Ecotype) | | |
| Species | 2% | Ticklegrass (Rough Bentgrass), PA Ecotype (Agrostis scabra, PA Ecotype) | | |
| တ | 1% | Soft Rush (Juncus effusus) | | |
| | 1% | Path Rush, PA Ecotype (Juncus tenuis, PA Ecotype) | | |
| | 1% | Green Bulrush, PA Ecotype (Scirpus atrovirens, PA Ecotype) | | |

LIME AND FERTILIZER APPLICATION RATES

| | | TABLE | 11.2 | | |
|------------------------|-----------|----------------------|--------------------|---|--|
| | SOIL | AMENDMENT APPLICATIO | N RATE EQUIVALENTS | | |
| | PER | | | | |
| SOIL AMENDMENT | PER ACRE | PER 1,000 SQ. FT. | PER 1,000 SQ. YD. | NOTES | |
| AGRICULTURAL LIME | 6 TONS | 240 LB. | 2,480 LB. | OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS | |
| 10-10-20 FERTILIZER | 1,000 LB. | 25 LB. | 210 LB. | OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS | |
| | | TEMPORARY SEEDING AF | PLICATION RATE | | |
| AGRICULTURAL LIME | 1 TON | 40 LB. | 410 LB. | TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES | |
| 10-10-10 FERTILIZER | 500 LB. | 12.5 LB. | 100. LB. | TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES | |

NOTE: A COMPOST BLANKET WHICH MEETS THE STANDARDS OF THIS CHAPTER MAY BE SUBSTITUTED FOR THE SOIL AMENDMENT SHOWN IN TABLE 11.2

MAINTENANCE PROGRAM

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS AND

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED ONCE EVERY SEVEN DAYS AND AFTER EACH RUNOFF EVENT. A WRITTEN REPORT MUST ALSO BE COMPLETED DOCUMENTING EACH INSPECTION AND ANY REPAIR, REPLACEMENT OR
- 2. ALL TEMPORARY SEDIMENT CONTROLS SHALL BE CLEANED AND REMOVED AT THE END OF CONSTRUCTION FOLLOWING STABILIZATION OF UPLAND AREAS. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS MUST BE MAINTAINED PROPERLY. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE
- PERIMETER BMPS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, DAMAGE, ETC., TO ENSURE THE MEASURE IS IN PROPER WORKING ORDER, AND THAT ANY POSTS/WOOD STAKES ARE SECURELY IN THE GROUND.
- 4. TEMPORARY AND PERMANENT SEEDING, AND OTHER STABILIZATION MEASURES, WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- DISTURBED AREAS AND MATERIALS STORAGE AREAS WILL BE INSPECTED FOR EVIDENCE OF OR POTENTIAL FOR POLLUTANTS ENTERING THE STORMWATER.
- 6. ANY MUD TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AFTER EVERY WORKDAY.
- 7. UNTIL THE SITE ACHIEVES FINAL STABILIZATION, THE OPERATOR SHALL ASSURE THAT THE BMPS ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO THE CONSERVATION DISTRICT, COMPLETE WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS, ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR. REPLACEMENT, RE-GRADING, AND RE-STABILIZATION SHALL BE PERFORMED IMMEDIATELY.
- ANY DEBRIS ACCUMULATED AT SILT BARRIERS WILL BE REMOVED AND PROPERLY DISPOSED IN A RESPONSIBLE MANNER. BARRIERS SHALL BE CHECKED AND REALIGNED OR RESET AS REQUIRED. ANY DEBRIS OR SOLID WASTE MATERIAL ACCUMULATED FROM CONSTRUCTION ACTIVITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED LANDFILL. CONSTRUCTION WASTE SHALL NOT BE BURIED ON THE SUBJECT SITE.
- VEGETATIVE STABILIZATION WILL BE PERIODICALLY INSPECTED FOR PROPER GROWTH. ANY AREAS NOT RESPONDING WILL BE PROMPTLY RESEEDED. AREAS THAT SHOW SIGNS OF EROSION PRIOR TO STABILIZATION SHALL BE GRADED, RESEEDED, AND RE-MULCHED AS SOON AS POSSIBLE
- 10. MISCELLANEOUS ADJUSTMENTS AND CORRECTIONS SHALL BE MADE TO ANY EROSION CONTROL STRUCTURE AS DEEMED NECESSARY BY THE ENGINEER, MUNICIPAL OFFICIAL, OR COUNTY REPRESENTATIVE IN ORDER TO CORRECT UNFORESEEN PROBLEMS CAUSED BY STORMS PRIOR TO STABILIZATION.

11. COMPOST FILTER SOCKS: SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH HALF THE EFFECTIVE HEIGHT OF THE

- 12. ROCK CONSTRUCTION ENTRANCE WITH WASH RACK; ROCK CONSTRUCTION ENTRANCES SHOULD BE MAINTAINED TO THE
- SPECIFIED DIMENSIONS BY ADDING ROCK WHEN NECESSARY AT THE END OF EACH WORKDAY. A STOCKPILE OF ROCK MATERIAL SHOULD BE MAINTAINED ON SITE FOR THIS PURPOSE.
- 13 SEDIMENT TRAPS: TRAP WILL BE INSPECTED FOR DEPTH OF SEDIMENT ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE. CLOGGED OR DAMAGED SPILLWAY OR SKIMMER SHALL BE IMMEDIATELY RESTORED TO DESIGN SPECIFICATIONS.
- 13. SEDIMENT BASIN: BASIN WILL BE INSPECTED FOR DEPTH OF SEDIMENT. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE. CLOGGED OR DAMAGED SPILLWAY OR SKIMMER SHALL BE IMMEDIATELY RESTORED TO DESIGN SPECIFICATIONS.
- 14. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPS TO ELIMINATE POTENTIAL FOR
- ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. 15. SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS,
- 16. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN(S) WILL BE AVAILABLE ON THE SITE AT ALL TIMES.

FLOODPLAINS OR DRAINAGE SWALES, AND IMMEDIATELY STABILIZED OR PLACED IN TOPSOIL STOCKPILES.

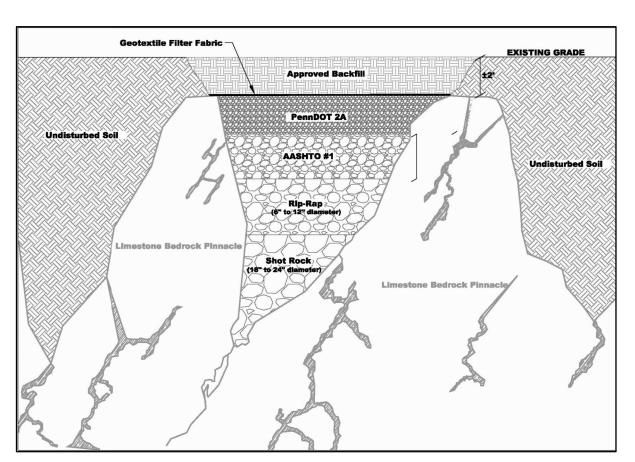
- 17. WHEN ANY EROSION CONTROL MEASURES ARE INSTALLED, THE MAINTENANCE AND INSPECTION PROCEDURES ABOVE SHALL BEGIN. THE CONTRACTOR SHOULD BE AWARE THAT THE INSPECTION FORMS BECOME AN INTEGRAL PART OF THE ESCP AND SHALL BE MADE READILY AVAILABLE TO THE GOVERNMENT INSPECTION OFFICIALS, THE PROJECT OWNER'S ENGINEER, AND THE PROJECT OWNER FOR REVIEW UPON REQUEST DURING VISITS TO THE PROJECT SITE.
- 18. TYPICAL CONSTRUCTION WASTES ARE ANTICIPATED I.E. CONCRETE, ASPHALT, REBAR, LUMBER, BUILDING MATERIALS, ETC. THE CONTRACTOR SHALL DISPOSE OF WASTE MATERIALS OBTAINED FROM DEMOLITION ACTIVITIES IN A LEGAL MANNER, AND SHALL RECYCLE AS MUCH OF THE WASTE MATERIAL AS POSSIBLE, IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT SPECIFICATIONS, ALL BUILDING MATERIALS AND WASTES MUST 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, WASTES, OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

UTILITY TRENCH WORK NOTES

- 1. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH SO AS TO ALLOW THE TRENCH TO INTERCEPT ALL
- 2. CONTRACTOR SHALL ONLY EXCAVATE AS MUCH UTILITY TRENCH WORK AS CAN BE COMPLETED, BACKFILLED AND STABILIZED IN ONE DAY SO AS TO LIMIT THE AMOUNT OF OPEN, DISTURBED TRENCHING.

HYDRAULICALLY APPLIED EROSION CONTROL BLANKET

- FOR SLOPES UP TO 3H:1V THE BONDED FIBER MATRIX (BFM) SHOULD BE APPLIED AT A RATE OF 3,000 LB/ACRE. STEEPER SLOPES MAY NEED AS MUCH AS 4,000 LB/ACRE.
- 2. A BFM SHOULD ONLY BE USED WHEN NO RAIN IS FORECAST FOR AT LEAST 48 HOURS FOLLOWING THE APPLICATION.
- 3. BFM SHOULD NOT BE APPLIED BETWEEN SEPTEMBER 30 AND APRIL 1.
- 4. IN ALL USES, MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED.



SINKHOLE REPAIR DETAIL

N.T.S.

SEQUENCE OF CONSTRUCTION

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) TO ELIMINATE

THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. 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 1-800-242-1776 FOR THE LOCATION OF EXISTING ALL EARTHMOVING ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CONSTRUCTION SEQUENCE, EACH STAGE

SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE THE NEXT STAGE IS STARTED. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER

BAG OR EQUIVALENT FACILITY, OVER UNDISTURBED VEGETATED AREAS. CONTRACTOR SHALL FIELD MARK ALL WATER OF THE COMMONWEALTH, INCLUDING STREAM BUFFERS, WETLAND BOUNDARIES.

CONTRACTOR SHALL FIELD MARK THE LIMIT OF DISTURBANCE WITH ORANGE CONSTRUCTION FENCE OR OTHER MEASURES APPROVED BY THE ENGINEER OR OWNER PRIOR TO EARTH DISTURBANCE.

ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE CHAPTER 260, §\$260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE

- THE LIMIT OF DISTURBANCE AND CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE ENGINEER OR OWNER PRIOR TO THE START OF WORK ON THE SITE.
- INSTALL AND MAINTAIN THE TEMPORARY ROCK CONSTRUCTION ENTRANCE, STREAM CROSSING CULVERT PER APPROVED CHAPTER 105 PERMIT, INSTALL TEMPORARY COMPOST FILTER SOCKS WHERE INDICATED ON THE PLAN, ALL VEHICLES ENTERING THE SITE SHALL DO SO VIA THE CONSTRUCTION ENTRANCE, TRACKING OF MUD ONTO PUBLIC ROADS IS NOT
- STRIP TOPSOIL WITHIN THE AREA OF PROPOSED IMPROVEMENTS AND STOCKPILE AT THE TEMPORARY AREAS PROVIDED. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. AND SIDE SLOPES MUST ALSO BE 2:1 OR FLATTER. SEED WITH A TEMPORARY COVER, AND MULCH, SURROUND WITH FILTER SOCKS, BEGIN FILLING AREAS AS NEEDED TO ACHIEVE GRADES AS SHOWN ON THE PLAN.
- EXCAVATE, FILL AND ROUGH GRADE THE SITE TO THE PROPOSED ELEVATIONS AS SHOWN ON THE GRADING/UTILITIES PLAN. INSTALL EROSION CONTROL MATTING WHERE INDICATED ON THE PLANS.
- INSTALL STORM SEWER INLETS AND PIPES BEGINNING AT THE DOWNSTREAM CONNECTIONS AND WORKING UPSTREAM. TRENCHES MUST BE BACKFILLED AT THE COMPLETION OF EACH DAY. ALL STORM SEWER CONSTRUCTION INCLUDES TRENCHING, BACKFILLING, APPLYING FINAL STABILIZATION, AND PIPE OUTLET PROTECTION.
- INSTALL INLET PROTECTION AT LOCATIONS INDICATED ON PLAN

SPRING SEEPS. AND FLOODWAYS PRIOR TO EARTH DISTURBANCE.

- 7. BEGIN CONSTRUCTION OF BUILDING.
- 8. INSTALL UTILITIES INCLUDING BUT NOT LIMITED TO ELECTRIC, WATER, SANITARY, AND GAS.
- 9. GRADE AND CONSTRUCT INFILTRATION BASIN #1 AND SUB-SURFACE INFILTRATION BASIN 1 INCLUDING: 9.a. SUBSURFACE BASIN STONE BED AND GEOTEXTILE FABRIC 9.b. INFILTRATION BASIN #1 EMERGENCY SPILLWAY AND BERM 9.c. PERMANENT PIPE AND OUTLET STRUCTURES
- 10. ONCE UTILITIES IN ROADWAYS AND PARKING AREAS ARE COMPLETED, BEGIN INSTALLING CURBING AND AGGREGATE BASE IN ALL AREAS FOLLOWED BY BINDER COURSE.
- 11. PLACE REMAINING TOPSOIL AND APPLY PERMANENT SEEDING OR LANDSCAPING.
- 12. FINISH GRADING, PLACE 4" MINIMUM TOPSOIL ON SLOPES AFTER FINAL GRADING IS COMPLETED. FERTILIZE SEED AND MULCH. SEED MIXTURE TO BE INSTALLED APRIL 1 - JUNE 1 OR SEPTEMBER 1 - NOVEMBER 30. USE EROSION CONTROL BLANKETS AS REQUIRED OR ORDERED OR SLOPES GREATER THAN 3:1. FOR TEMPORARY STABILIZATION BEYOND SEEDING DATES USE ANNUAL RYE AT 10.0 LBS/1,000 S.Y. FERTILIZE WITH 5-5-5 AT 1000 LBS. OF NITROGEN PER ACRE AND LIME AT ONE TON PER ACRE (MAX.).
- 13. INSTALL WEARING COURSE ON ALL ROADS AND PARKING AREAS.

ONCE SITE IS 100% STABILIZED:

- 14. PERMANENTLY SEED AND MULCH ANY DISTURBED AREAS AND INSTALL EROSION CONTROL MATTING AS SHOWN ON THE
- 15. CONTACT THE ENGINEER OR OWNER FOR FINAL INSPECTION AND APPROVAL OF STABILIZATION. UPON APPROVAL, REMOVE ALL REMAINING SOIL EROSION AND SEDIMENT CONTROL MEASURES (SILT SOCK, RCE, ETC.), ONLY AFTER SITE IS COMPLETELY STABILIZED (WITH APPROVAL OF THE ENGINEER OR OWNER).
- STABILIZATION CURRENT REGULATIONS STATE: A. UPON COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY. THE SITE SHALL
- BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND
- B. EROSION AND SEDIMENT CONTROL BMP'S SHALL BE IMPLEMENTED AND MAINTAINED UNTIL THE PERMANENT STABILIZATION IS COMPLETED
- FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY TO BE CONSIDERED PERMANENTLY STABILIZED, THE DISTURBED AREAS SHALL BE COVERED WITH ONE OF THE FOLLOWING: - A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION - AN ACCEPTABLE BMP THAT PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.

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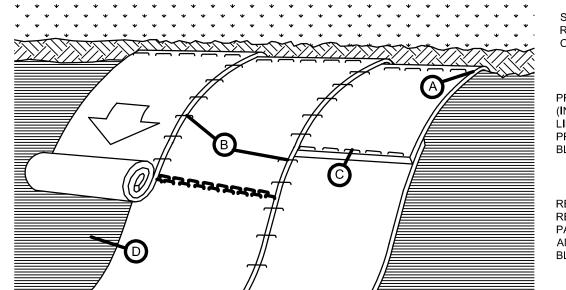
430 NORTH FRONT STREET

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PROFESSIONAL SEAL

DRAWN G.S.D. **REVIEWED** T.L.D. SCALE AS NOTED DATE 11/04/2019 PROJECT NO. 19-0045 CAD FILE: 11 - E&S DETAILS

E&S DETAILS



ROLL BLANKETS IN DIRECTION OF WATER FLOW

PREPARE SEED BED (INCLUDING APPLICATION OF LIME, FERTILIZER, & SEED) PRIOR TO INSTALLATION OF BLANKET.

REFER TO MANUFACTURER'S RECOMMENDED STAPLING PATTERN FOR STEEPNESS AND LENGTH OF SLOPE BEING BLANKETED.

THE BLANKET SHOULD

NOT BE STRETCHED; IT

MUST MAINTAIN GOOD

INSTALL BEGININING OF ROLL IN 6"X6" ANCHOR TRENCH, STAPLE, BACKFILL AND COMPACT SOIL.

BLANKET EDGES OVERLAPPED 4" (MIN.) AND STAPLED





OVERLAP BLANKET ENDS

UPSLOPE BLANKET

DOWNSLOPE BLANKET

(SHINGLE STYLE). STAPLE

OVERLYING THE

SECURELY.

SOIL CONTACT

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

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.

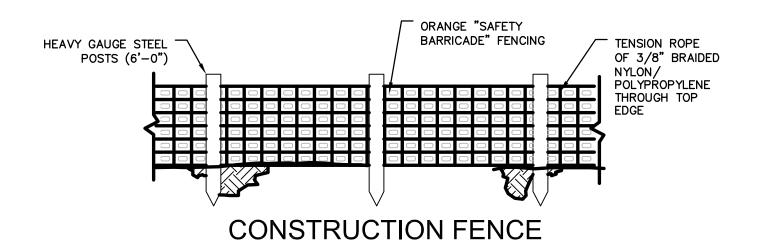
BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH, LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DON NOT STRETCH BLANKET.

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 WTIHIN 4 CALENDAR DAYS.

EROSION CONTROL BLANKET INSTALLATION DETAIL

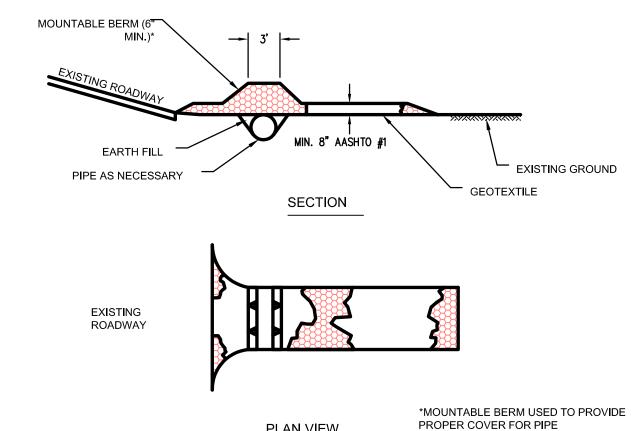
N.T.S. PADEP #11-1



N.T.S.

ENTRANCE.

N.T.S.



REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF

PLAN VIEW

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TOT EH CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS

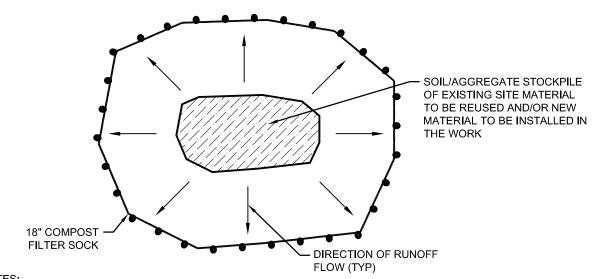
ROCK CONSTRUCTION ENTRANCE DETAIL

PADEP #3-1

N.T.S.

SUPPLEMENT.

COMPOST FILTER SOCK DETAIL



- 1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT AN APPROVED FACILITY OR PERMITTED
- TOPSOIL STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITIONS AND STABILIZE AS REQUIRED.
- 4. STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET. 5. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.

TEMPORARY TOPSOIL STOCKPILE

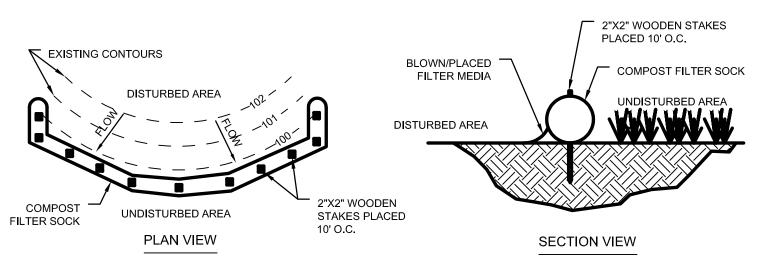
N.T.S.

| Material Characteristics | Photo- | | | Polypropylene (MFPP) | Polypropylene (HDMFPP) | |
|------------------------------------|------------------|------------|---|--------------------------|------------------------|--|
| Characteristics | | Photo- | Bio- | Photo- | Photo- | |
| | degradable | degradable | degradable | degradable | degradable | |
| | | 12" | 12" | 12" | 12" | |
| Sock | 12" | 18" | 18" | 18" | 18" | |
| Diameters | 18" | 24" | 24" | 24" | 24" | |
| | | 32" | 32" | 32" | 32" | |
| Mesh Opening | 3/8" | 3/8" | 3/8" | 3/8" | 1/8" | |
| Tensile | | | | | | |
| Strength | | 26 psi | 26 psi | 44 psi | 202 psi | |
| Ultraviolet Stability % | | | | | | |
| Original | 23% at | 23% at | | 100% at | 100% at | |
| Strength (ASTM G-155) | 1000 hr. | 1000 hr. | | 1000 hr. | 1000 hr. | |
| Minimum Functional Longevity | 6 months | 9 months | 6 months | 1 year | 2 years | |
| | | Two-ply | systems | | | |
| | | | | HDPE biaxial net | | |
| lmman C | antainmant Na | 44! | Continuously wound Fusion-welded junctures 3/4" X 3/4" Max. aperture size | | | |
| inner C | ontainment Ne | etung | | | | |
| | | | | | | |
| Oute | er Filtration Me | sh | Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch) | | | |
| Oute | | - | | 3/16" Max. aperture size | | |

| TABLE 4.2 COMPOST STANDARDS | | | | | | |
|--------------------------------|---------------------------------|--|--|--|--|--|
| ORGANIC MATTER CONTENT | 25%-100% (DRY WEIGHT BASIS) | | | | | |
| ORGANIC PORTION | FIBROUS AND ELONGATED | | | | | |
| рН | 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

Sock fabrics composed of burlap may be used on projects lasting 6 months or less.



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL). 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 MANUFACTURER.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND 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.

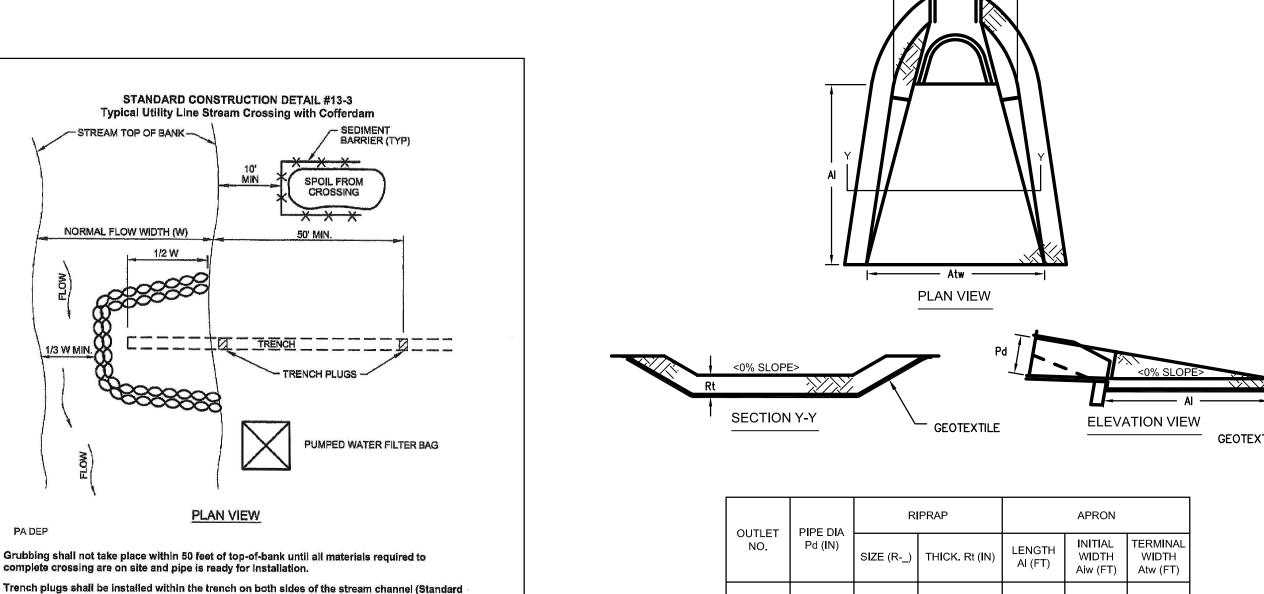
BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE

AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL

PADEP #4-1

N.T.S



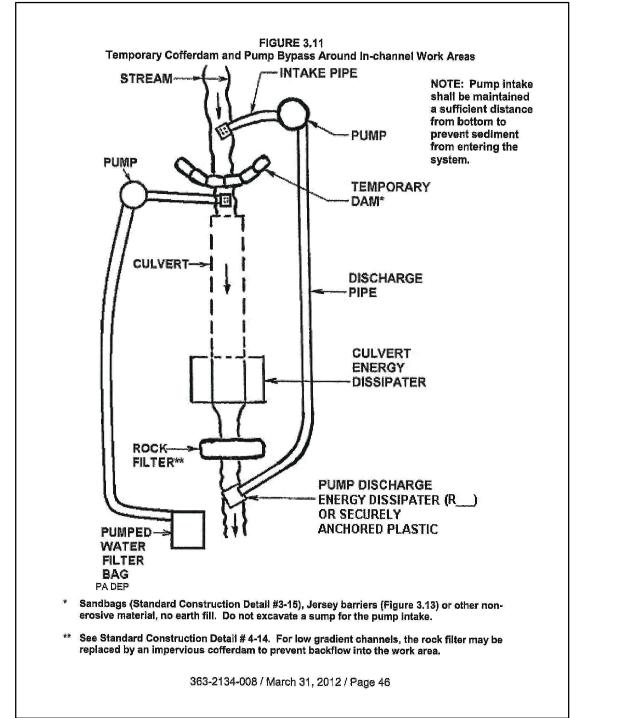
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ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

RIPRAP APRON AT PIPE OUTLET WITH FLARED ENWALL

N.T.S. PADEP #9-1



Water accumulating within the work area shall be pumped to a pumped water filter bag or

Hazardous or pollutant material storage areas shall be located at least 100 feet back from the

All excess excavated material shall be immediately removed from the stream crossing area.

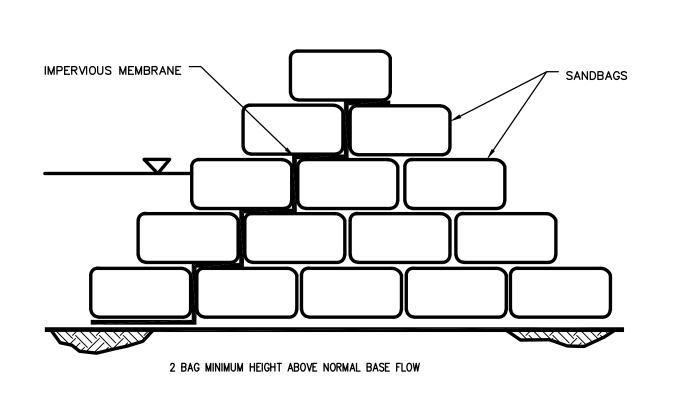
All disturbed areas within 50 feet of top-of-bank shall be blanketed or matted within 24 hours of

initial disturbance for minor streams or 48 hours of initial disturbance for major streams unless

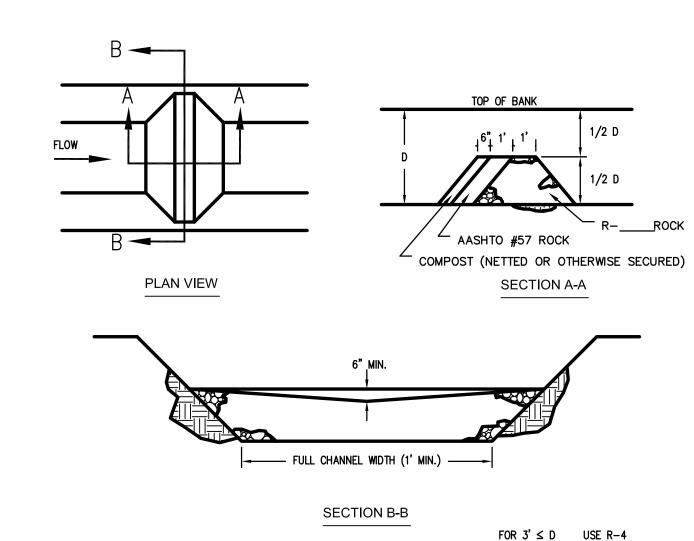
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sediment trap prior to discharging into any receiving surface water.

NORMAL FLOW WIDTH (W



SANDBAG DIVERSION DAM OR COFFERDAM DETAIL



FOR 2' \leq D < 3' USE R-3 NOT APPLICABLE FOR D<2' ROCK FILTER NO. RIPRAP SIZE LOCATION D (FT.) BELOW CULVERT CROSSING EW 1.38 R-3

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTER. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, INSTALLER SHALL REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND

ROCK FILTER DETAIL

N.T.S PADEP-4-14 INTEGRATED **DEVELOPMENT PARTNER**

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PRELIMINARY/FINAL

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TITLE E&S DETAILS