

PRELIMINARY / FINAL LAND DEVELOPMENT PLAN FOR RUSSEL DRIVE LOT 2

LOCATED IN SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

PLAN PURPOSE STATEMENT:

GENERAL NOTES:

- AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.
- TOWNSHIP STAFF SHALL HAVE PERMISSION TO ACCESS DRAINAGE EASEMENTS FROM THE NEAREST PRIVATE PARKING AREA. 10. INLET BOX CORNERS SHALL NOT BE KNOCKED OUT FOR PIPE CONNECTION.
- 11. IMPLEMENTATION OF THE EROSION CONTROL PLAN IS THE RESPONSIBILITY OF THE LOT OWNER, AND/OR THE PERSON(S) AUTHORIZED BY COVERAGE UNDER THE NPDES PERMIT FOR DISCHARGE OF STORM WATER ASSOCIATED WITH CONSTRUCTION
- 12. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A MINIMUM OF 48 HOURS NOTICE AND TO COORDINATE WITH THE TOWNSHIP AND THE TOWNSHIP ENGINEER IN REGARDS TO ALL MUNICIPAL INSPECTION WORK REQUIRED ON THE
- 13. NOTHING SHALL BE PLANTED OR PLACED WITHIN AN EASEMENT WHICH WOULD ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT, OR CONFLICT WITH ANY CONDITIONS ASSOCIATED WITH SUCH EASEMENT.
- 14. STORMWATER MANAGEMENT FACILITIES WILL BE MAINTAINED BY THE LOT OWNER. MAINTENANCE OF STORMWATER MANAGEMENT FACILITIES SHALL BE REQUIRED TO ENSURE THAT THEY ARE PERMANENT AND CONTINUOUSLY FUNCTIONING AS
- 15. THE OPERATION AND MAINTENANCE AGREEMENT IS PART OF THE STORMWATER MANAGEMENT PLAN.
- 16. ALL STORMWATER CONVEYANCE PIPING SHALL HAVE WATERTIGHT JOINTS
- 17. PUBLIC SIDEWALKS SHALL BE INSPECTED BY THE MUNICIPAL ENGINEER OR HIS DESIGNATED AGENT AFTER THE FORMS HAVE BEEN PLACED, JUST PRIOR TO THE POURING OF CONCRETE AND AFTER THE COMPLETION OF ALL WORK.
- 18. ALL ELECTRIC, TELEPHONE AND STREETLIGHING LINES SHALL BE UNDERGROUND. 19. RECORD DRAWINGS WILL BE PROVIDED FOR ALL STORMWATER MANAGEMENT FACILITIES PRIOR TO OCCUPANCY, OR THE
- RELEASE OF FINANCIAL SECURITY.
- 20. ANY NEW SIGNAGE WILL NEED TO COMPLY WITH PART 24 OF THE ZONING ORDINANCE. 21. STREET ADDRESS NUMBERS MUST COMPLY WITH TOWNSHIP ORDINANCE §22-1112.

SURVEYOR / ENGINEER CERTIFICATIONS:

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE

CORRECT TO THE ACCURACY REQUIRED BY THE SUSQUEHANNA TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

I HEREBY CERTIFY THIS PLAN TO BE CORRECT AS SHOWN.

MATTHEW R. FISHER, P.L.S., P.E.

SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND

- 22. THE PLANNING MODULE FOR LAND DEVELOPMENT FOR THIS SITE WAS APPROVED ON OCTOBER 18, 1991. DER CODE NO. P3-22921-230-3 FOR LOWER PAXTON TOWNSHIP AND P3-22931-149-3 FOR SUSQUEHANNA TOWNSHIP. THE PROJECT SITE WAS APPROVED FOR 11,400 GPD OF SEWAGE FLOW IN 1997.
- 23. ALL ROOFTOP-MOUNTED EQUIPMENT AND OTHER SIMILAR APPURTENANCES BE INCONSPICUOUSLY SITED ON THE ROOF, SCREENED, SUCH THAT VIEWS FROM ADJACENT STREET RIGHTS-OF-WAY ARE MINIMIZED. ALL ARCHITECTURAL FEATURES TO BE USED TO SCREEN ROOFTOP EQUIPMENT SHALL BE DESIGNED TO BE ARCHITECTURALLY COMPATIBLE WITH THE PRINCIPAL

PROFESSIONAL

MATTHEW R. FISHER

PROFESSIONAL

MATTHEW R. FISHER

\ENGINEER/

SITE DATA:

RECORD OWNER: TOTAL TRACT AREA: 6.639 ACRES PROPOSED USE: SENIOR CITIZEN MULTIPLE FAMILY PROPOSED NUMBER OF DWELLING UNITS: 78 EXISTING IMPERVIOUS AREA: 0.0 ACRES PROPOSED IMPERVIOUS AREA: 2.28 ACRES

PARKING DATA:

EXISTING SEWAGE DISPOSAL: NONE PROPOSED WATER SUPPLY: PUBLIC PROPOSED SEWAGE DISPOSAL: PUBLIC

REQUIRED PARKING, APARTMENTS: 156 SPACES (2 SPACES PER APARTMENT UNIT X 78 UNITS)

PA UTILITY ONE - CALL:

ZONING DATA:

EXISTING ZONE: BOR (BUSINESS-OFFICE-RESIDENTIAL)

	REQUIRED / PERMITTED	PROPOSED
MINIMUM TRACT AREA	40,000 S.F.	289,174 S.F
MAXIMUM DWELLING UNITS / ACRE	12.00	11.45
MAXIMUM HEIGHT	42 FEET	36 FEET
MAXIMUM BUILDING COVERAGE	20%	11% 30,933 SF
MAXIMUM IMPERVIOUS COVERAGE	45%	34% 97,003.01 S
MINIMUM VEGETATIVE COVERAGE	55%	55%
MINIMUM BUILDING SEPARATION, FRONT TO SIDE	50 FEET	50 FEET
MINIMUM YARD SETBACK, FRONT	25 FEET	25 FEET
MINIMUM YARD SETBACK, SIDE	20 FEET	20 FEET
MINIMUM YARD SETBACK, REAR	25 FEET	25 FEET
MINIMUM HABITABLE FLOOR AREA	400 SQ.FT.	> 400 SQ.FT
	•	

TOTAL PARKING PROPOSED: 159 SPACES



OF 2017, REQUIRES NOTIFICATION OF EXCAVATORS. DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH. SERIAL NO. 20220552019 COMPLETED ON FEBRUARY 24, 2022

LIST OF UTILITIES SUEZ WATER PENNSYLVANIA INC HARRISBURG, PA, 17112 CONTACT: EVO ANDREATT: EVO.ANDREATTI@SUEZ.COM FRONTIER COMMUNICATIONS OF PA INC 300E LAIRD STWILKES BARRE, PA. 18702 MICHAEL, NAVICH@FTR, COM

1026 HAY STPITTSBURGH, PA, 15221 DEBORAH.D.DELIA@VERIZON.COM 1025 ELDORADO BLVD BROOMFIELD, CO. 80021 CONTACT: CENTURY LINK OPERATOR PERSONNEL

LOWER PAXTON TOWNSHIP AUTHORITY HARRISBURG, PA. 17109 CONTACT: JAMES WETZEL
JWETZEL@LOWERPAXTON-PA.GOV 400 INTERNATIONAL PARKWAY CONTACT: DEAN BOYERS 7AYO BANDWIDTH FORMERLY PPL TELCOM LLC BOULDER, CO. 80301 GEORGE.HUSS@ZAYO.COM

434 SUSQUEHANNA TRL NORTHUMBERLAND, PA. 17857

DOUG HAUPTEMAIL:DLHAUPT@PPLWEB.COM

CONTACT: MICHAEL SWEIGARD
MIKE_SWEIGARD@CABLE.COMCAST.COM SUSOUEHANNA TOWNSHIP HARRISBURG, PA, 17110 CONTACT: TRAVIS MEASE TMEASE@SUSQUEHANNATWP.COM 1301 AIP DR MIDDLETOWN, PA. 17057 CONTACT: STEPHEN BATEMAN SUSOUFHANNA TOWNSHIP AUTHORITY/

1900 LINGLESTOWN RD

4601 SMITH STREET HARRISBURG, PA. 17109

WETLAND CERTIFICATION

I HEREBY CERTIFY THAT I HAVE CONDUCTED A WETLANDS DELINEATION STUDY IN ACCORDANCE WITH THE REQUIREMENTS OF THIS ORDINANCE AND HAVE DETERMINE THAT REGULATORY WETLANDS EXIST ON THE SUBJECT SITE AND THIS PLAN ACCURATELY DEPICTS THE EXTENT OF ALL WETLANDS.

BRADLY J. GOCHNAUER, VORTEX	DATE

WAIVERS:

THE FOLLOWING WAIVERS ARE REQUESTED OR WERE APPROVED FROM THE SUSQUEHANNA TOWNSHIP SALDO

WAIVER SECTION	REQUIREMENT	DATE OF WAIVER REQUEST	DATE OF WAIVER APPROVAL
22-1107	SIDEWALK REQUIRED ALONG RUSSEL DRIVE	05/06/22	/ /

FORMAL WAIVER REQUEST DOCUMENTATION AND JUSTIFICATION HAS BEEN SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL

DESIGN ENGINEER:

R.J. FISHER & ASSOCIATES, INC. 1546 BRIDGE STREET NEW CUMBERLAND, PA 17070 PHONE: (717) 774-7534 MRF@RJFISHERENGINEERING.COM

EQUITABLE OWNER / APPLICANT:

RUSSEL DRIVE LLC 5351 JAYCEE AVENUE HARRISBURG, PA 17112 PHONE: 717-657-5729 WWW.TRIPLECROWNCORP.COM

DRAWING INDEX:

COMMONWEALTH OF PENNSYLVANIA

UNDERSIGNED PERSONALLY APPEARED.

WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSE AND SAY THAT

THEY ARE THE OWNERS OF THE PROPERTY SHOWN ON THIS PLAN AND THAT THEY ACKNOWLEDGE THE SAME TO BE THEIR ACT AND DEED AND DESIRE THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

WITNESS MY HAND AND NOTORIAL SEAL THE DAY AND THE DATE ABOVE

IT IS HEREBY CERTIFIED THAT THE UNDERSIGNED ARE THE OWNERS OF

ALL STORMWATER BMPS ARE FIXTURES THAT CANNONT BE ALTERED OR REMOVED WITHOUT PRIOR APPROVAL BY SUSQUEHANNA TOWNSHIP.

MARK X. DISANTO, RUSSEL DRIVE LLC

COUNTY OF DAUPHIN

OWNER

NOTARY PUBLIC

MY COMMISSION EXPIRES

THE PROPERTY SHOWN ON THIS PLAT.

ON THIS THE DAY OF

Sheet Number	Sheet Title
1	COVER SHEET
2	EXISTING CONDITIONS PLAN
3	EXISTING CONDITIONS PLAN
4	LAND DEVELOPMENT PLAN
5	GRADING & PCSM PLAN
6	LANDSCAPE PLAN
7	LIGHTING PLAN
8	E&S POLLUTION CONTROL PLAN
9	STORM PROFILES
10	STORM PROFILES
11	SITE DETAILS
12	PCSM DETAILS
13	SANITARY SEWER DETAILS
14	E&S DETAILS
15	E&S DETAILS

PLAN APPROVAL BLOCKS:

DAUPHIN COUNTY PLANNING COMMISSION REVIEW	
THIS PLAN REVIEWED BY THE DAUPHIN COUNTY PLANNING COMMISSION THIS _	DAY
OF 20	
CHAIRMAN	
SECRETARY	
TOWNSHIP ENGINEER REVIEW	
	DAY

LOCATION MAP: 1" = 1000'

SUSOUEHANNA	TOWNSHIP	PLANNING	COMMISSION	REVIEW

HIS PLAN RECOMMENDED FOR APPROVAL BY THE SUSQUEHANNA TOWNSHIP PLANNING					
COMMISSION THIS DAY OF	_ 20				
HAIRMAN	<u>.</u>				
ECRETARY					

FINAL PLAN APPROVAL

THIS PLAN APPROVED BY THE SUSQUEHANNA TOWNSHIP BOARD OF COMMISSIONERS, AND ALL CONDITIONS IMPOSED WITH RESPECT TO SUCH APPROVAL WERE COMPLETED ON
THIS DAY OF 20
CHAIRMAN
SECRETARY .

ACKNOWLEDGMENT OF PLAN, STATEMENT OF OWNERSHIP AND OFFER OF DEDICATION:

HIN	THIS DIAN DECORDED IN THE OFFICE OF THE DECORDED OF DEEDS IN AND FOR
DAY OF 20 . BEFORE ME THE	THIS PLAN RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS IN AND FOR
RSONALLY APPEARED.	DAUPHIN COUNTY THIS DAY OF 20
	PLAN BOOK, PAGE
MARK X. DISANTO, RUSSEL DRIVE LLC	INSTRUMENT NUMBER

RECORDING:

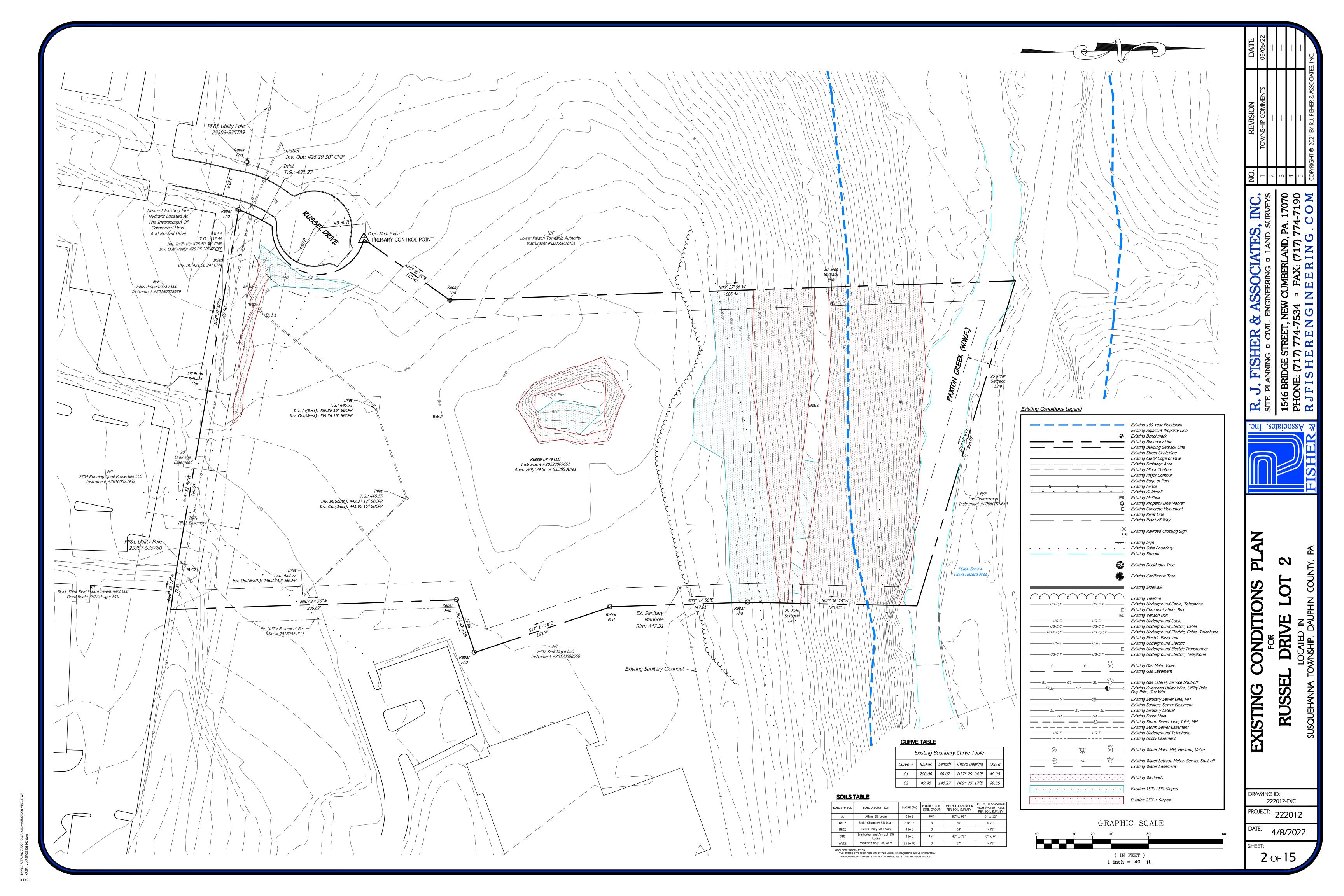
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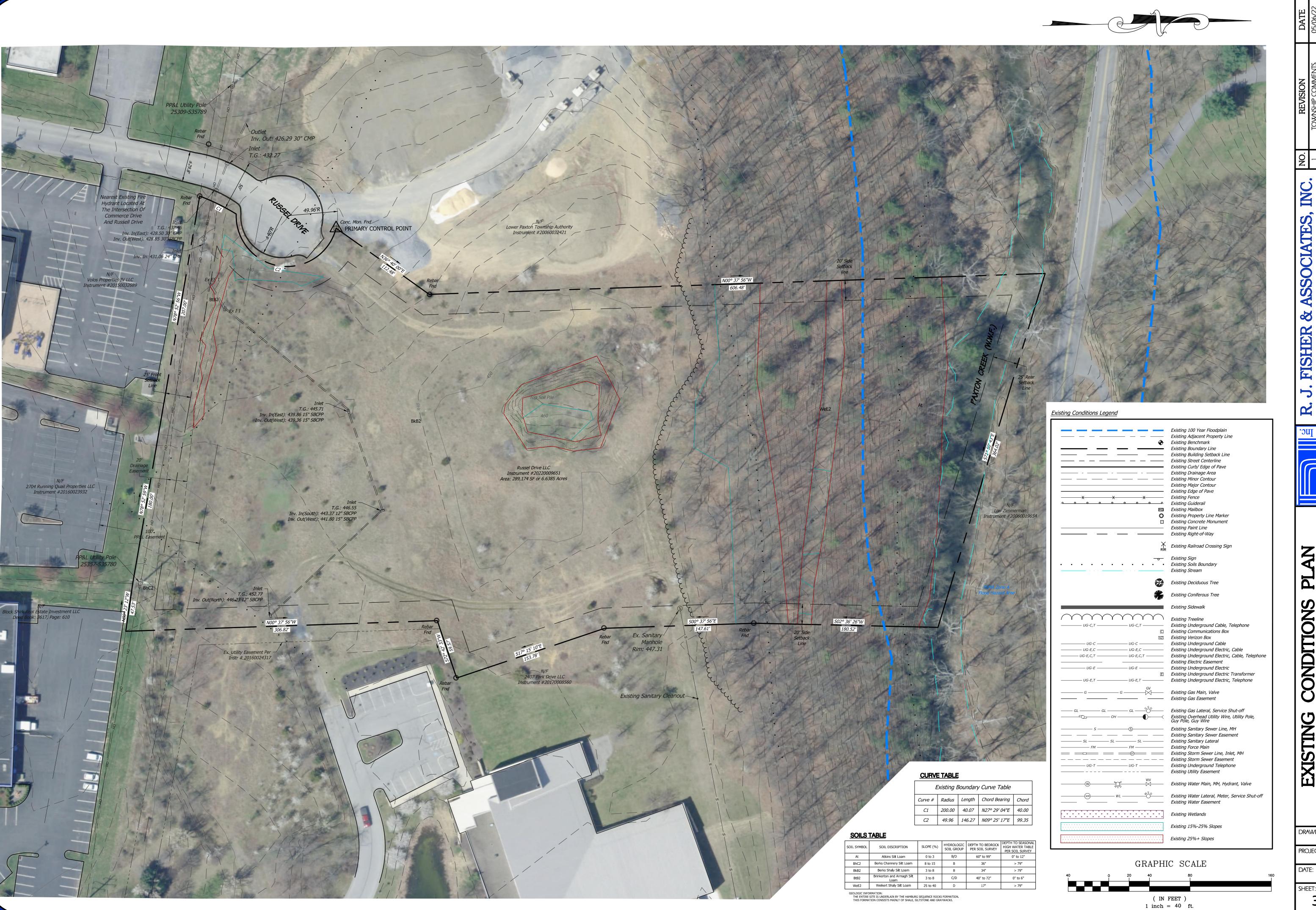
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4/8/2022







Associates, Inc

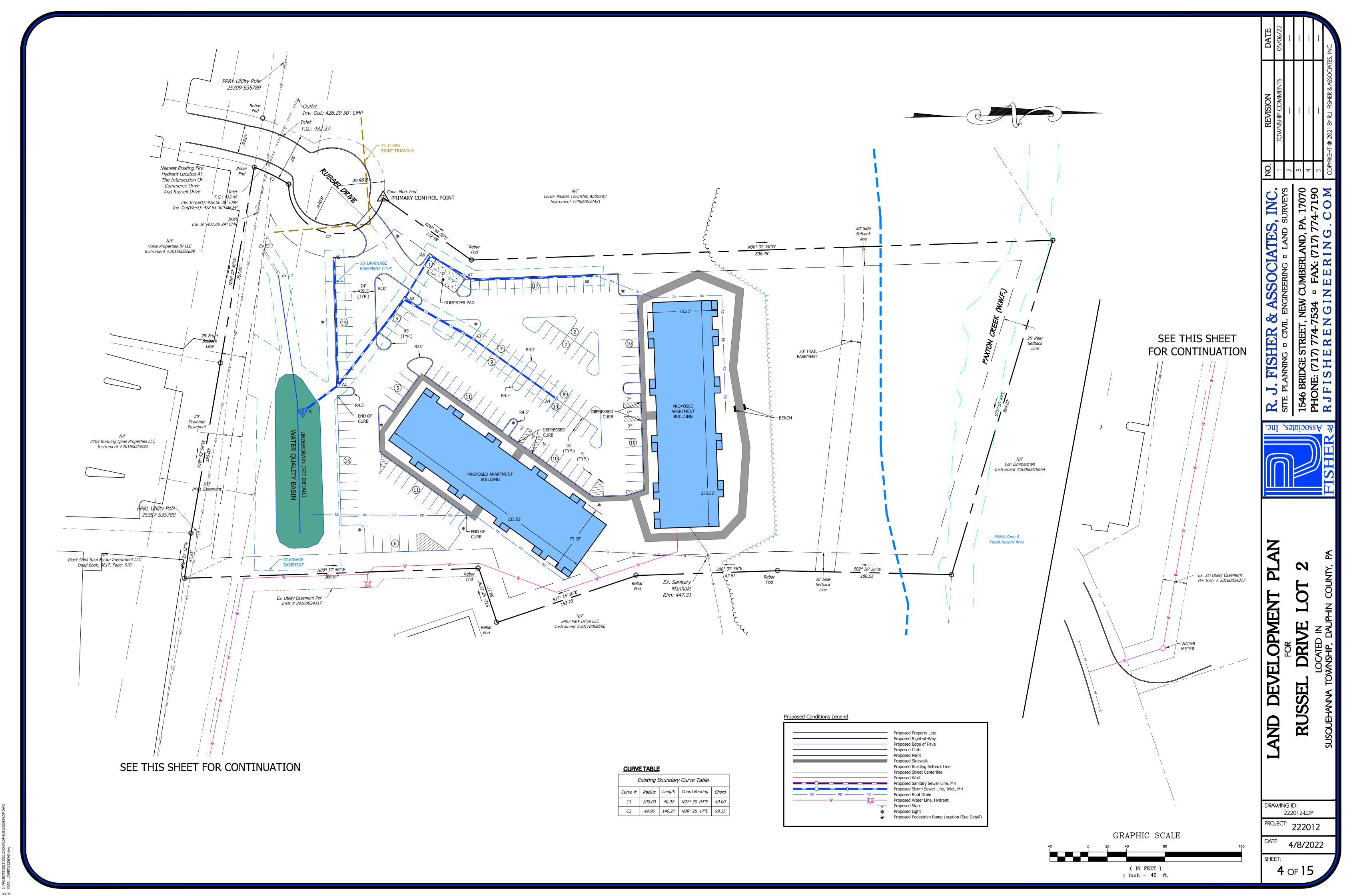
DRIVE LOCATED IN WNSHIP, DAUP RUSSEL

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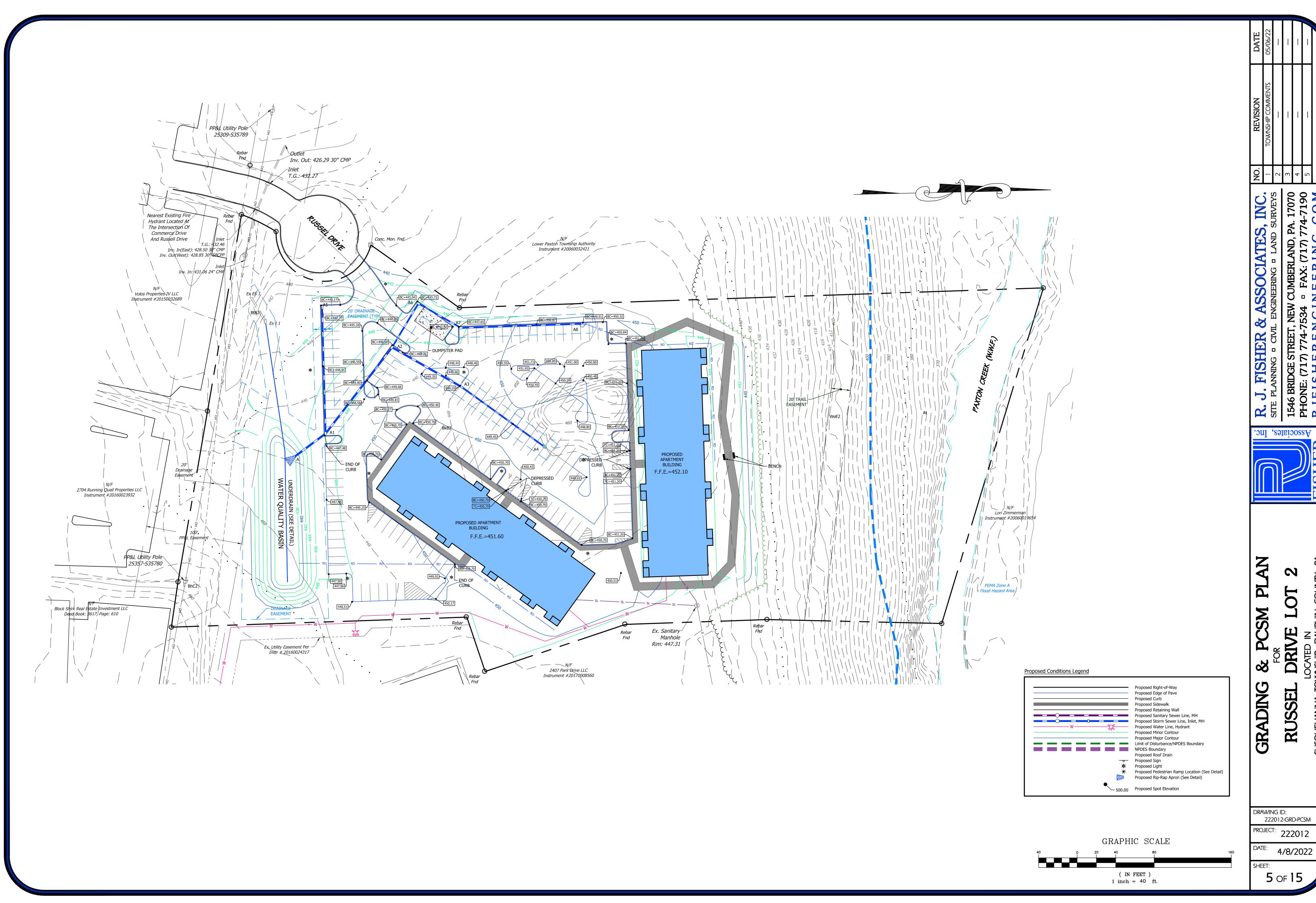
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4/8/2022 SHEET:

3 OF 15

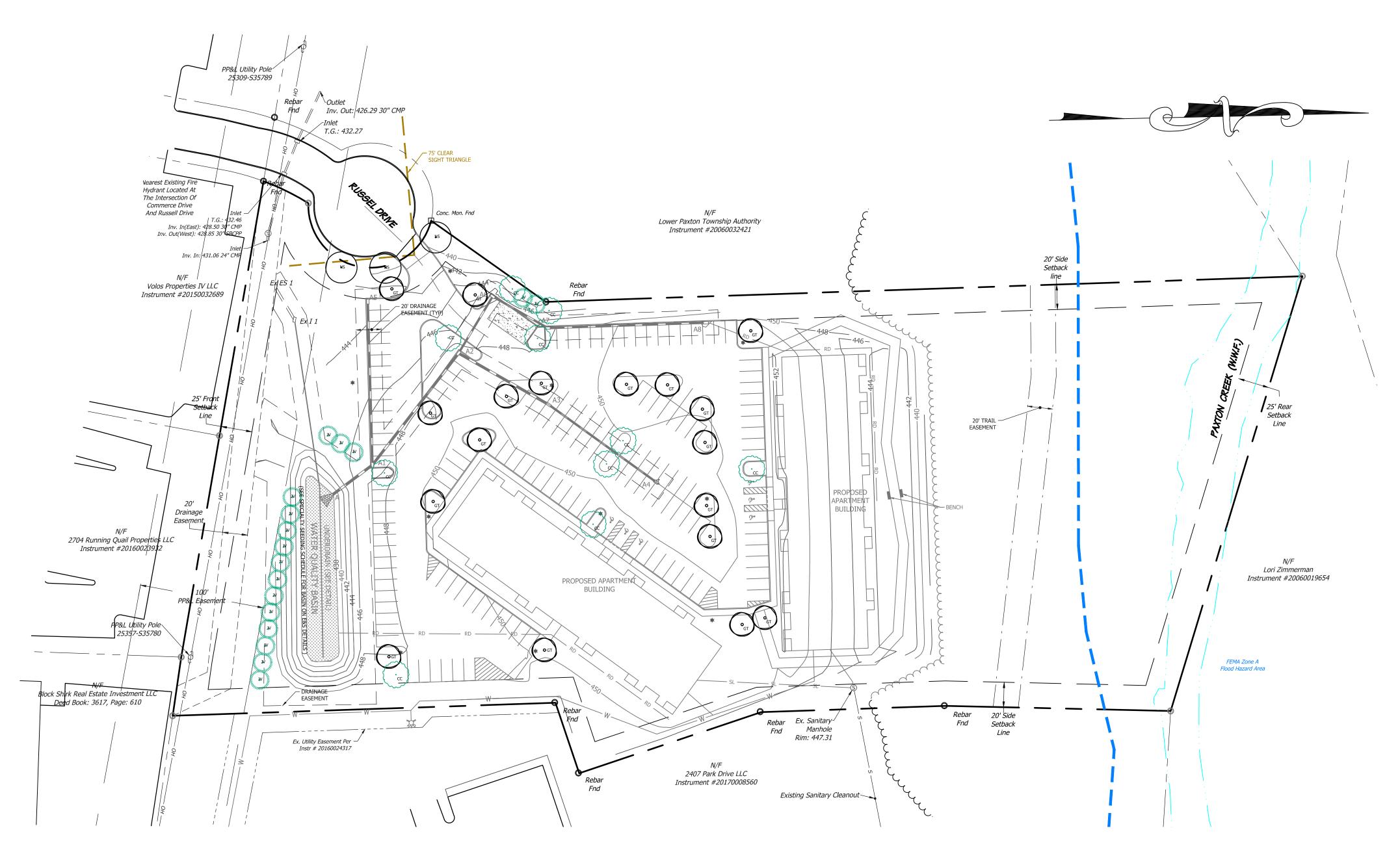


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	PLANTING SCHEDULE FOR STREET TREES							
	STREET TREES PER S&LDO SEC. 22-1009.3., 22-1109 & ZO SEC. 27-2106.5.E: 1 TREE @ 40' INTERVALS							
_	SYMBOL	ID	QUANTITY	BOTANICAL NAME	COMMON NAME	PLANTING SIZE/ CONDITIONS	MATURE SIZE / GENERAL TYPE	NATIVE (N)
`		NS	3	NYSSA SYLVATICA	BLACKGUM		40' W. X 50' H. DECIDUOUS TREE	N

	PLANTING SCHEDULE FOR PARKING LOT								
	Z.O. 27-2306. LANDSCAPE CRITERIA: 1 SHADE TREE/ 15 spaces = 62 spaces /15 = 4.2~ 5 TREES MIN., OR 1 TREE PER ISLAND whichev								
	SYMBOL	ID	QUANTITY	BOTANICAL NAME	COMMON NAME	PLANTING SIZE/ CONDITIONS	MATURE SIZE / GENERAL TYPE	NATIVE(N	
∘GT	\	GT	18	GLEDITSIA TRIACHNTHOS 'STREETKEEPER'	STREETKEEPER HONEY LOCUST	2 to 2-1/2 " CAL. B&B	20'W. X 45'H. DECIDUOUS TREE	N	
1	•	} cc	8	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2 to 2-1/2 " CAL. B&B	20' W. X30' H. DECIDUOUS TREE	N	

PLANTING SCHEDULE FOR SCREEN PLANTING							
Z.O. 27-2106.5.F.1 LANDSCAPE CRITERIA: SCREENING FOR STORMWATER MANAGEMENT FACILITIES ADJACENT TO DISSIMILAR USE Z.O. 27-2106-5.D.4. DUMPSTER SCREENING, 1 SHADE TREE / 40 L.F. & 1 EVERGREEN TREE / 50 L.F.							
		2.0. 2	7-2106-5.D.4. DUMPSTER	SCREENING, 1 SHADE I	REE / 40 L.F. & 1 EVERGREE	:N TREE / 50 L.F.	
SYMBOL	ID	QUANTITY	BOTANICAL NAME	COMMON NAME	PLANTING SIZE/ CONDITIONS	MATURE SIZE / GENERAL TYPE	NATIVE (N)
+ + +	JV	17	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR	6'H. B&B, 13' O.C.	20'W. X 45'H. EVERGREEN TREE	N
	СС	2	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2 to 2-1/2 " CAL. B&B	20' W. X30' H. DECIDUOUS TREE	N
UNIA TIL (TIL DI			ECIEC NOT CHILTIVADO OD LIVEDIO	. ~	•	•	

"NATIVE" REFERS TO GENUS AND SPECIES NOT CULTIVARS OR HYBRIDS

GENERAL LANDSCAPE NOTES:

- 1. ALL DISTURBED SOIL AREAS NOT INDICATED TO BE COVERED WITH BUILDINGS, PAVING OR PLANTING BEDS SHALL BE PERMANENTLY SEEDED AND MAINTAINED WITH TURFGRASS. IF THERE IS A PLANTING CONFLICT WITH ADJACENT IMPROVEMENTS (BUILDINGS, PAVEMENTS, LIGHTS, ETC.) UTILITIES, BEDROCK, EXISTING TREE ROOTS, POOR DRAINAGE AREA, OR OTHER OBSTACLE TO PLANTING, THE CONTRACTOR SHALL ADJUST THE TREE
- SPACING AND/OR ARRANGEMENT TO COMPLETE THE PLANTING IN ACCORDANCE WITH THE LANDSCAPE DESIGN INTENT. 3. ALL PLANTING AREAS, INCLUDING TURFGRASS AREAS, SHALL RECEIVE A MINIMUM OF 4"
- TOPSOIL BEFORE PLANTING. 4. NO TREES SHALL BE PLANTED WITHIN 10 FEET OF ANY SANITARY SEWER MAIN.
- 5. DURING CONSTRUCTION, NO CLEARING SHOULD BE PERMITTED ON A SITE BEYOND THE MINIMAL NECESSARY FOR THE SPECIFIC CONSTRUCTION ACTIVITY TO BE UNDERTAKEN.
- 6. NO CONSTRUCTION ACTIVITY, GRADING OR DISTURBANCE SHALL BE PERMITTED BEYOND THE LIMIT OF DISTURBANCE LINE. 7. LIMIT OF DISTURBANCE LINES SHALL BE CLEARLY NOTED IN THE FIELD PRIOR TO THE START
- OF CONSTRUCTION ACTIVITIES. THE LINES MAY BE INDICATED BY USE OF SNOW FENCING, FLAGGED STAKES OR OTHER MEANS ACCEPTABLE TO THE TOWNSHIP FOR THE SPECIFIC CONDITION OR FEATURE TO BE PROTECTED. THE LINES SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION ACTIVITY.

CONSTRUCTION NOTES:

- 1. DURING CONSTRUCTION, NO CLEARING SHALL BE PERMITTED BEYOND THAT MINIMALLY NECESSARY FOR THE SPECIFIC CONSTRUCTION ACTIVITY TO BE UNDERTAKEN.
- 2. NO CONSTRUCTION ACTIVITY, GRADING OR DISTURBANCE SHALL BE PERMITTED BEYOND THE LIMIT OF THE DISTURBANCE LINE. THE LIMIT OF DISTURBANCE LINES SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, BY USE OF SNOW FENCING, SILT FENCE, OR PLASTIC ORANGE CONSTRUCTION FENCE. THE LIMIT OF DISTURBANCE FENCE LINES SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION ACTIVITY.
- 3. ALL NEW PLANTS SHALL BE HEALTHY, FREE OF DISEASE AND PEST INFESTATION, SIZED AND ROOTED IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1,
- 4. IF QUANTITIES OF TREES OR SHRUBS SHOWN ON THE PLAN DIFFER FROM THOSE LISTED IN
- PLANTING SCHEDULE, QUANTITIES SHOWN ON THE PLAN SHALL GOVERN.

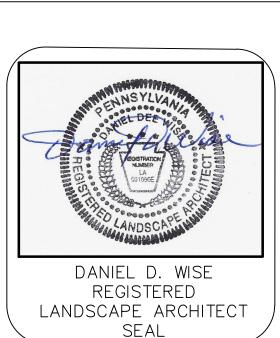
SHORT TERM LANDSCAPE MAINTENANCE PLAN:

- (FOR 18 MONTHS FOLLOWING INSTALLATION or MAINTENANCE BOND ISSUANCE WHICHEVER IS LONGER)
- 1. THE LANDSCAPE CONTRACTOR AND/OR LOT OWNER SHALL BE RESPONSIBLE FOR WATERING PLANT MATERIAL AND LAWN AREAS BEFORE, DURING AND AFTER INSTALLATION FOR THE DURATION OF THE WARRANTY PERIOD.
- 2. LAWN AREAS SHALL BE WATERED ONCE WEEKLY DURING DRY PERIODS OF THE FIRST GROWING SEASON TO ESTABLISH A HEALTHY TURFGRASS. WATERING SHOULD OCCUR DURING THE EARLY PART OF THE DAY AND SHALL PROVIDE TO AN EVEN SATURATION DEPTH OF ONE INCH PER WEEK BY RAIN EVENT OR IRRIGATION. 3. NEWLY PLANTED TREES AND SHRUBS SHALL BE WATERED REGULARLY DURING THE DRY PERIODS TO COMPLETELY DAMPEN THE
- ROOT BALL DURING THE FIRST GROWING SEASON.
- 4. DISEASE, INSECT AND WEED CONTROL AND PREVENTION SHOULD BE PERFORMED IN ACCORDANCE WITH MANUFACTURERS
- RECOMMENDATIONS FOR NEWLY PLANTED LANDSCAPES DURING THE FIRST SEASON. 5. NEWLY INSTALLED PLANTINGS SHALL BE SELECTIVELY PRUNED IF NECESSARY TO PROVIDE A NEAT, UNIFORM APPEARANCE. ANY DEAD OR BROKEN BRANCHES SHALL BE REMOVED. ALL NOTICEABLY DISEASED OR DAMAGED PLANT MATERIAL SHALL BE REMOVED AND REPLACED PRIOR TO FINAL ACCEPTANCE.
- 6. ALL GUYING AND STAKING SHALL BE MAINTAINED REGULARLY TO ASSURE PLANT STABILIZATION AND STRAIGHT, UNIFORM GROWTH FOR AT LEAST THE FIRST 18 MONTHS FOLLOWING THE DATE OF PLANTING. 7. ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES AND VARIETY AND SHALL CONFORM TO MEASUREMENTS AND MINIMUM
- STANDARDS AS SET FORTH IN THE PLANT SCHEDULE.
- 8. ALL PLANT MATERIALS AND LAWN AREAS ARE TO BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF 18 MONTHS FROM DATE WHEN MAINTENANCE BOND IS ISSUED/ EFFECTIVE. ANY PLANTS FOUND DEAD, DYING, OR DISEASED DURING SAID PERIOD SHOULD BE REPLACED IN-KIND DURING THAT PERIOD.
- 9. TREE BRANCHES OVERHANGING VEHICULAR AND PEDESTRIAN ROUTES (DRIVES, WALKS, ETC.) SHALL BE MAINTAINED AT A HEIGHT 8 FT. MIN. FROM ADJACENT GRADE.

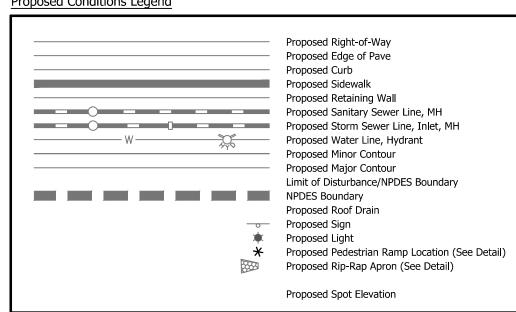
LONG TERM MAINTENANCE PLAN FOR LANDSCAPING:

- 1. MAINTENANCE OF TREES, SHRUBS AND TURFGRASS SHALL BE THE RESPONSIBILITY OF THE HOMEOWNERS ASSOCIATION.
- 2. THE LOT OWNER SHALL BE RESPONSIBLE FOR REGULAR MOWING, CLEAN-UP, AND GROOMING OF ALL LAWN AND
- PLANTED AREAS. 3. ANY SPECIFIC PLANT MATERIAL SHOWN ON THIS APPROVED LANDSCAPE PLAN WHICH DOES NOT SURVIVE OR IS
- DAMAGED SHALL BE REPLACED IN KIND BY THE LOT OWNER WITHIN A SIX MONTH PERIOD , IN PERPETUITY. 4. TRASH AND TREE DEBRIS SHALL BE REMOVED AND DISPOSED OF PROPERLY.
- 5. PATROL NATURAL AREAS AND REMOVE MAN-MADE DEBRIS AND DISPOSE OF PROPERLY.

NOTES: PRUNE TO THIN AND SHAPE TREE CANOPY SET STAKES VERICALLY AND TO SAME HEIGHT USE THREE STAKES PER TREE RUBBER HOSE TO ISOLATE WIRE FROM TRUNK STAKES TO BE SECURED TO TREE ABOVE FIRST LATERAL BRANCHES BUT NO HIGHER THAN 1/2 OF TREE HEIGHT -SET ROOT COLLAR AT FINISHED GRADE 2" OF MULCH (KEEP MULCH AWAY FROM TRUNK) (SEE NOTES AND SPECS. MOUND SOIL TO FORM SAUCER -REMOVE BURLAP, ROPE, OR WIRE FROM TOP 1/3 OF BALL CUT WIRE BASKET IN — SEVERAL LOCATIONS PLANT MIXTURE (REFER TO NOTES) -BELOW TREE PIT IN UNDISTURBED GROUND SCARIFY TO A DEPTH OF 4" AND RECOMPACT DECIDUOUS TREE PLANTING



Proposed Conditions Legend



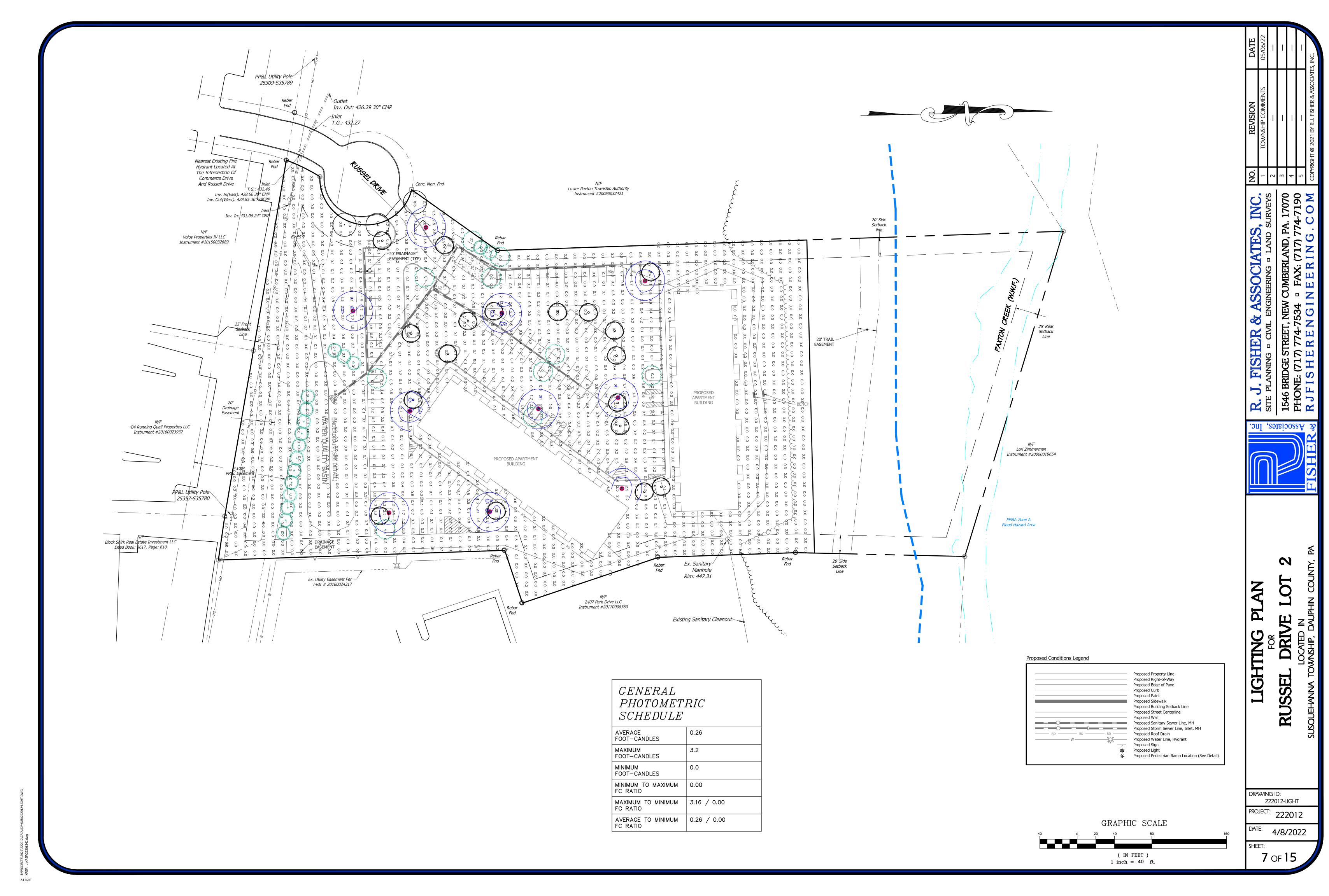
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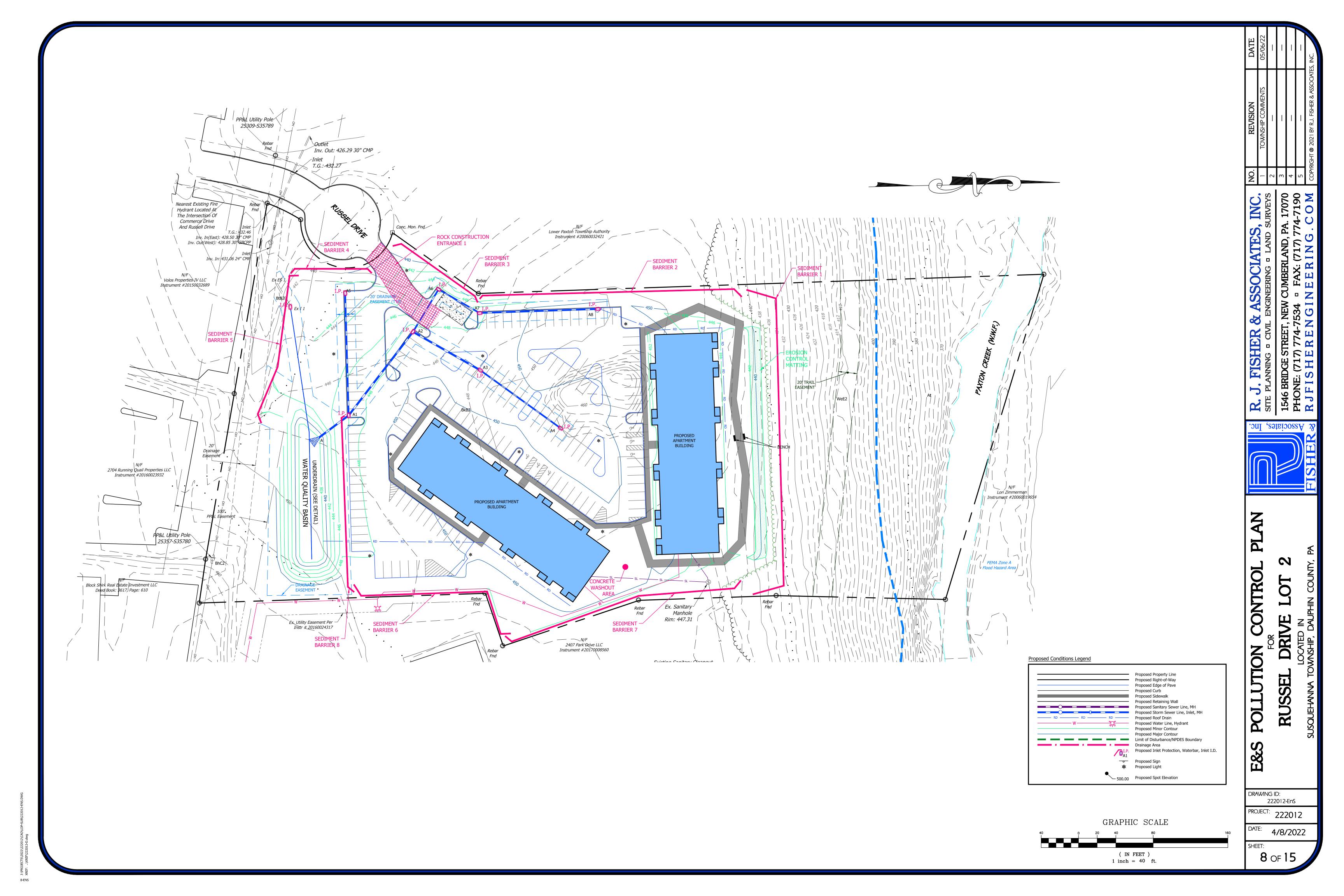
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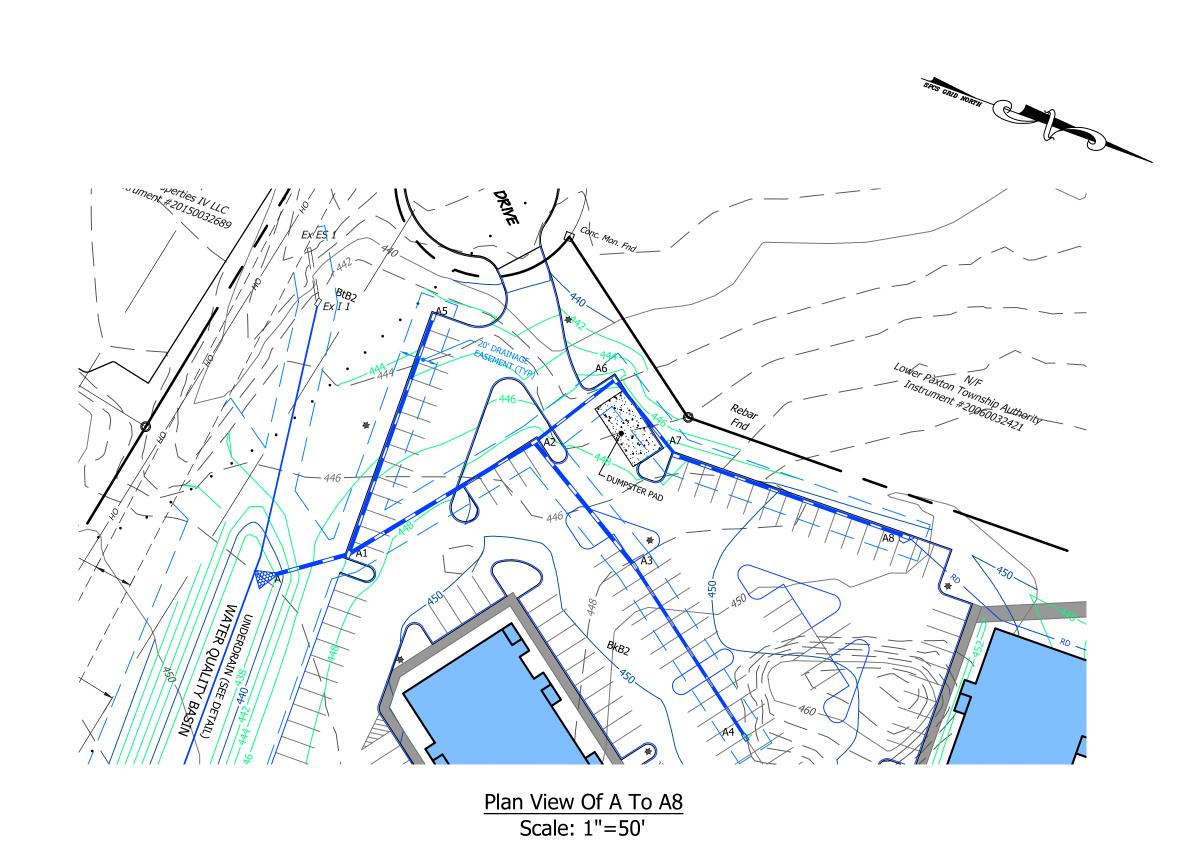
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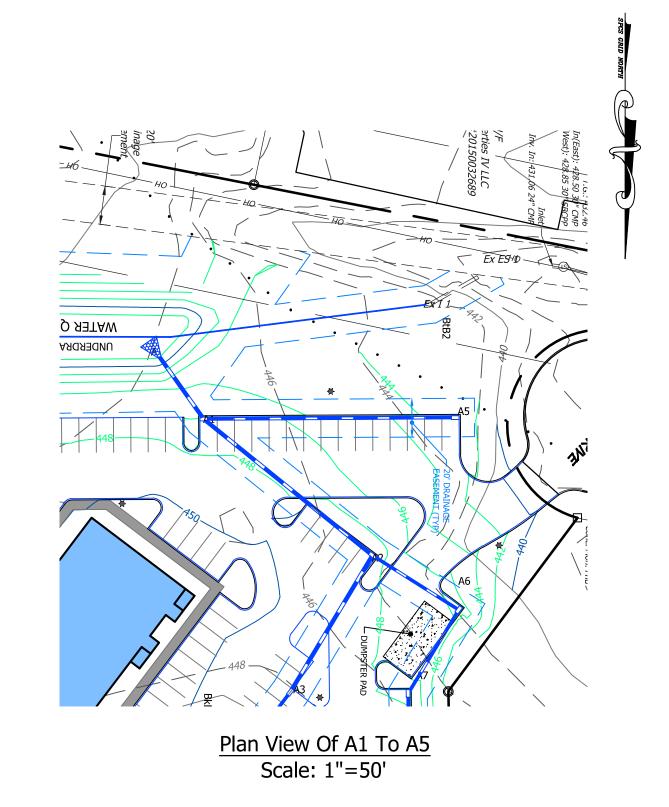
Associates, Inc

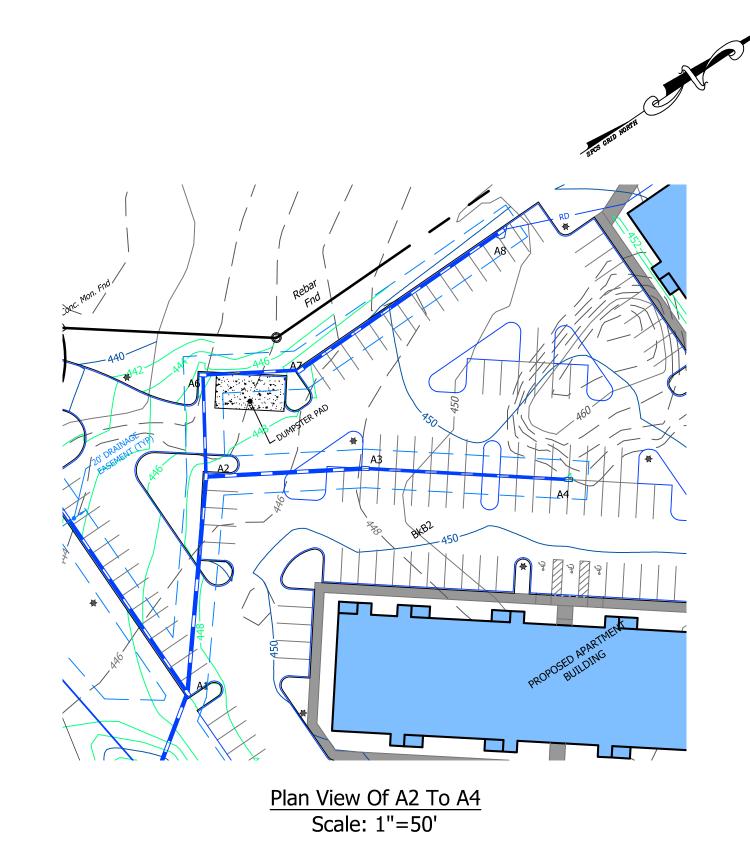
SHEET:

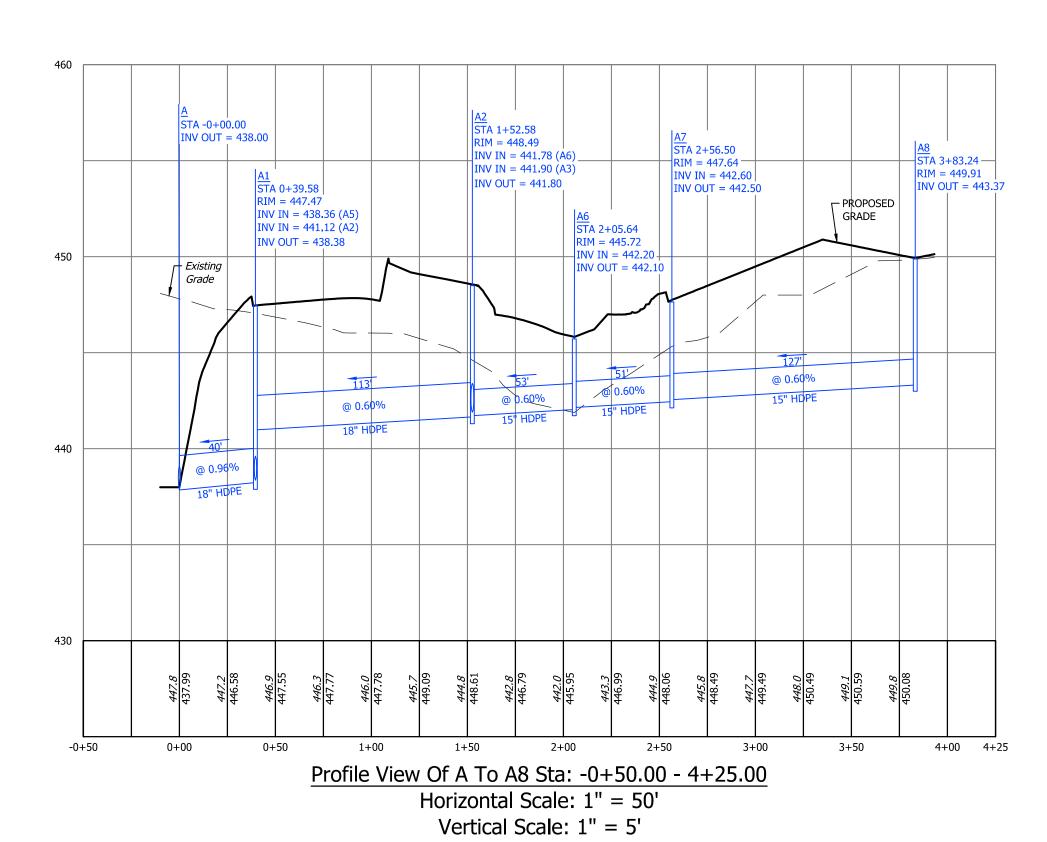


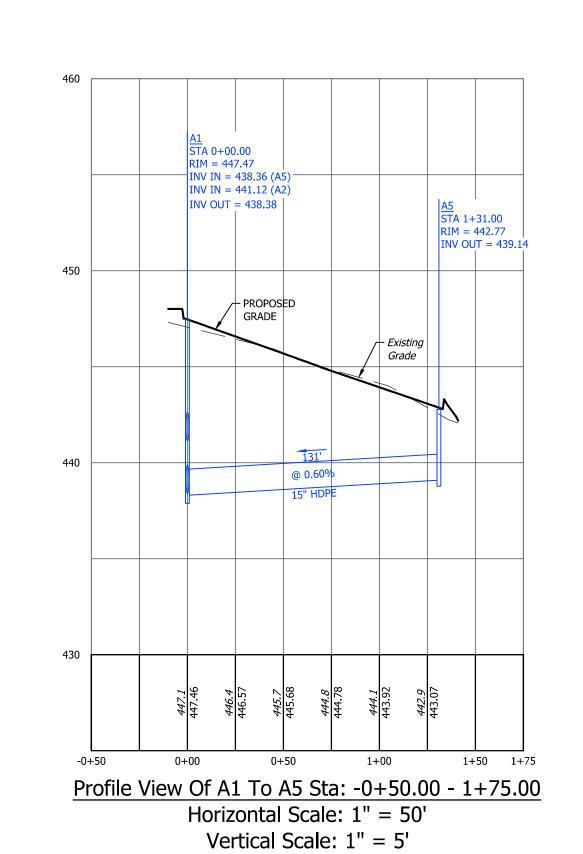


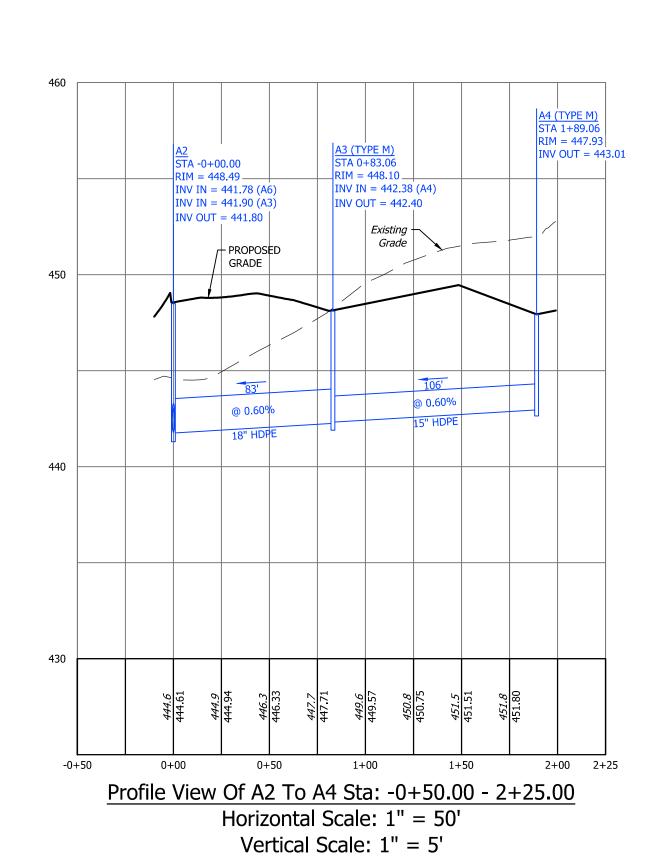


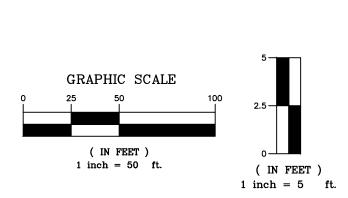












PROFILES DRIVE
LOCATED IN
WINSHIP, DAUP STORM RUSSEL

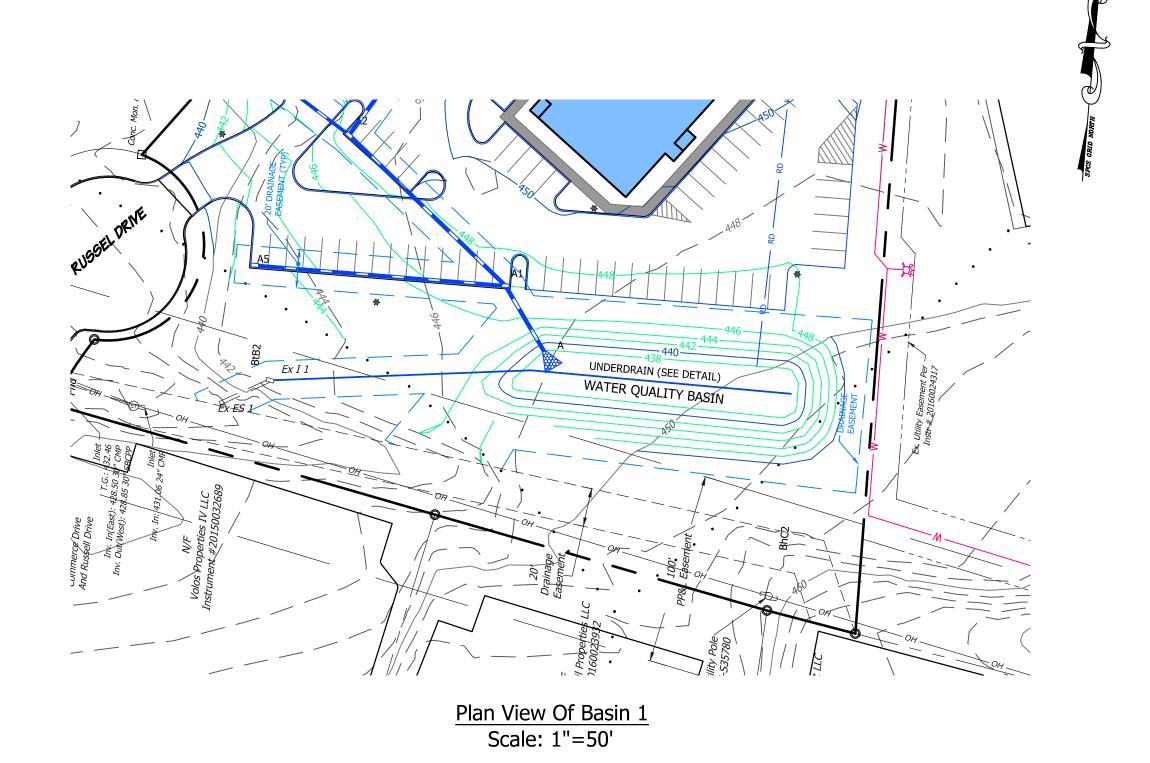
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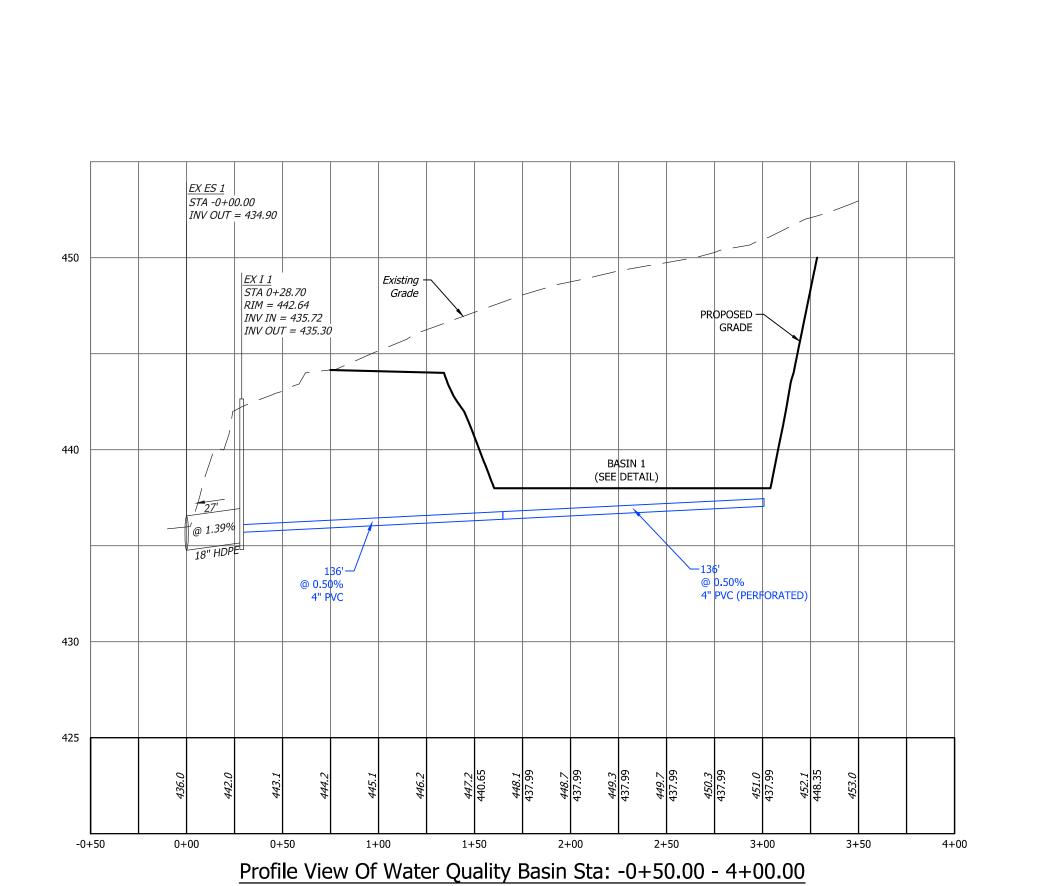
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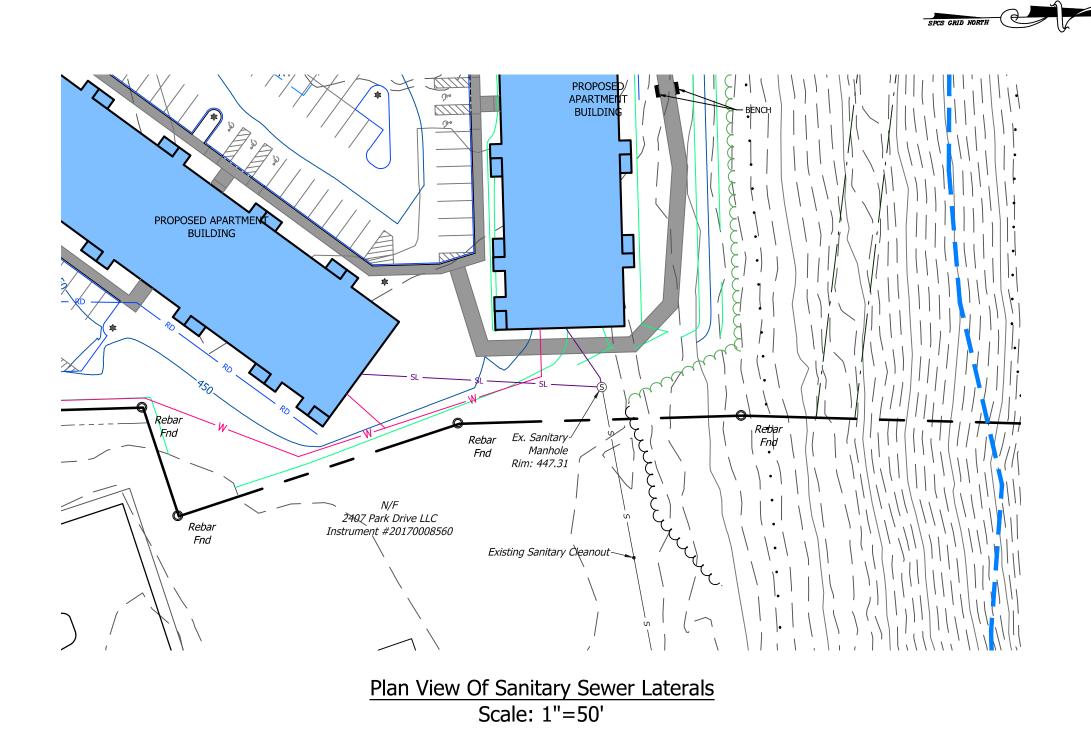
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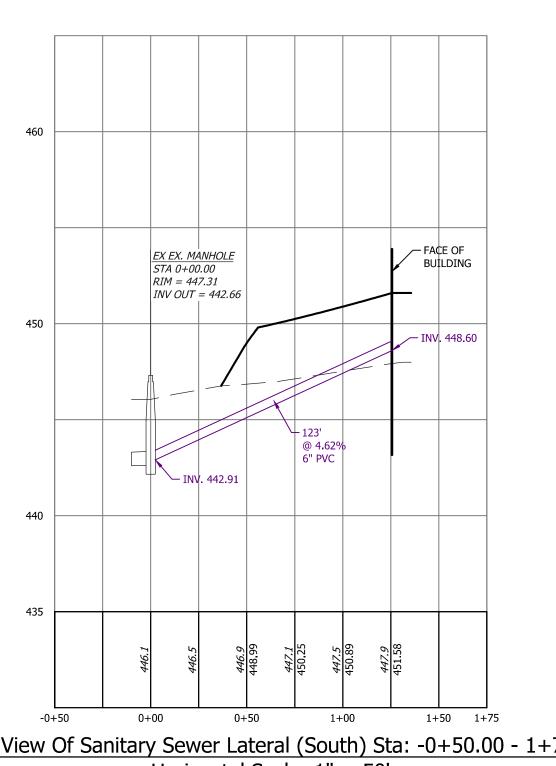


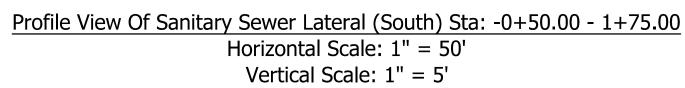


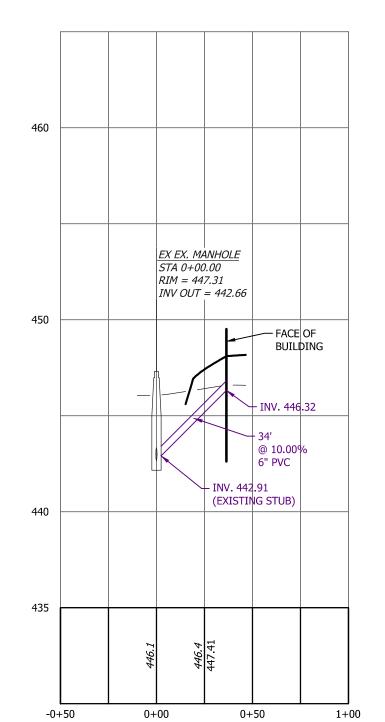
Horizontal Scale: 1" = 50'

Vertical Scale: 1" = 5'

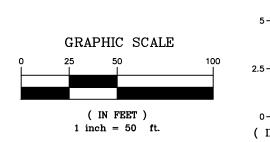








Profile View Of Sanitary Sewer Lateral (West) Sta: -0+50.00 - 1+00.00 Horizontal Scale: 1" = 50' Vertical Scale: 1" = 5'



(IN FEET) 1 inch = 5 ft.

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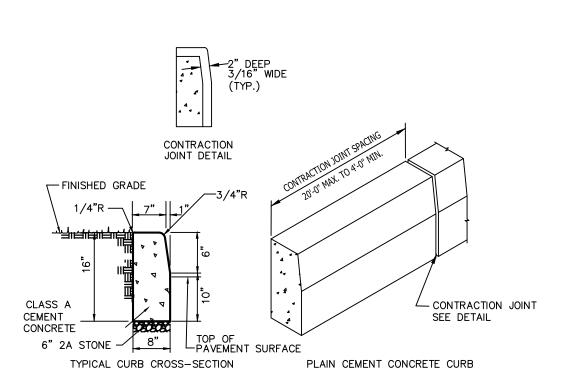
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DRAWING ID:

222012-PRO

STORM

DRIVE LOCATED IN WANSHIP, DAUP



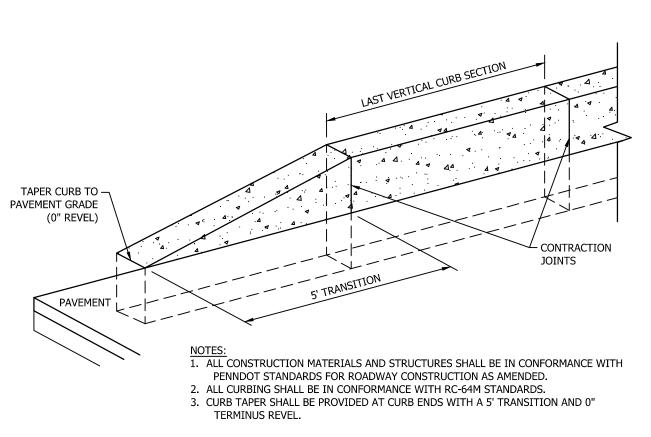
NOTES:

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUB. 408, SECTION 630 FOR PLAIN CONCRETE CURB AND DEPRESSED CURB, SECTION 640 FOR PLAIN CONCRETE CURB AND PLAIN CONCRETE CURB GUTTER.

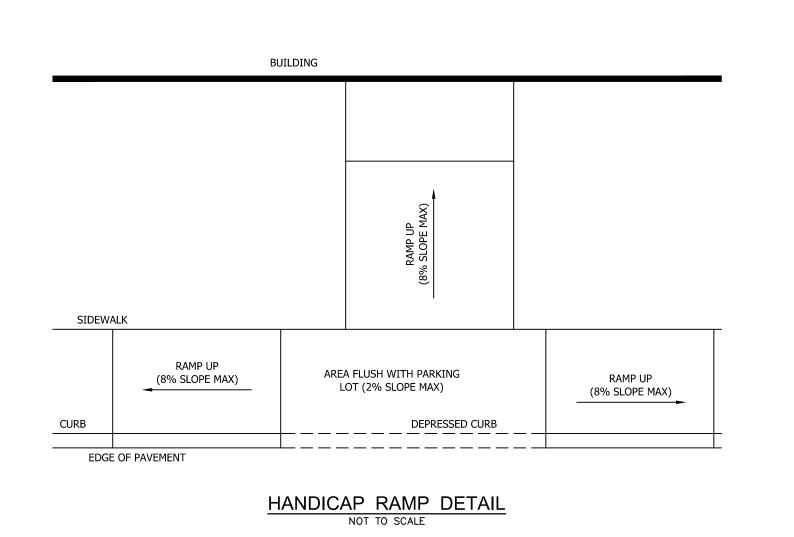
2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.

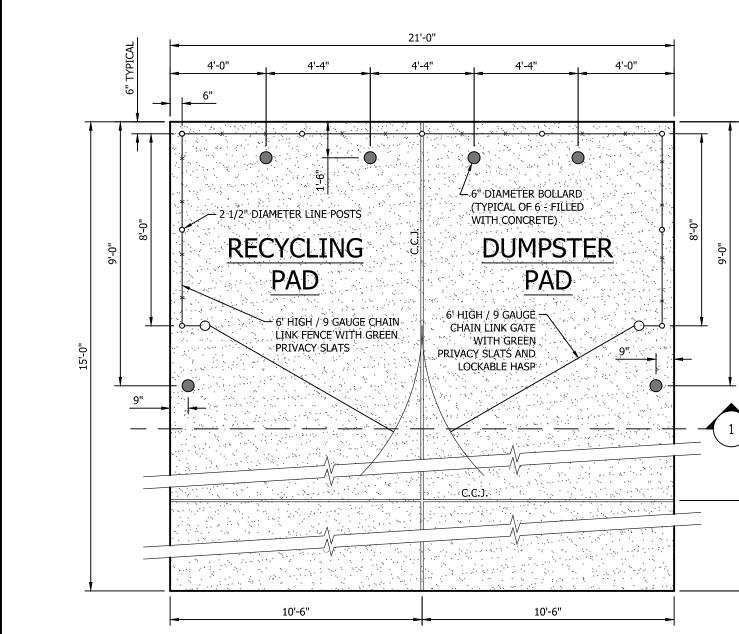
3. PLACE 3/4-INCH PREMOLDED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES AND AT THE END OF THE WORK DAY CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO CONFORM TO CROSS SECTIONAL AREA OF CURB.

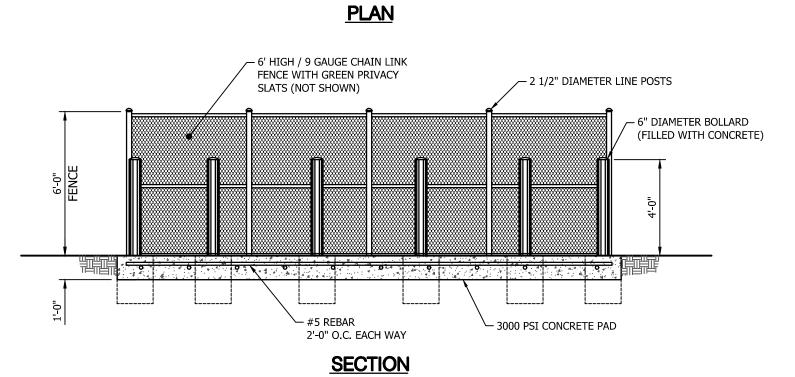
6" VERTICAL CONCRETE CURB DETAIL NOT TO SCALE



END TRANSITION FOR STANDARD VERTICAL CURBING







DUMPSTER PAD WITH ENCLOSURE DETAIL

N.T.S.



Acorn



LUMINAIRE: Acorn, black or green

> 2,600 lumen (36 watt) or 3,800 lumen (53 watt)

Light-Emitting Diode (LED)

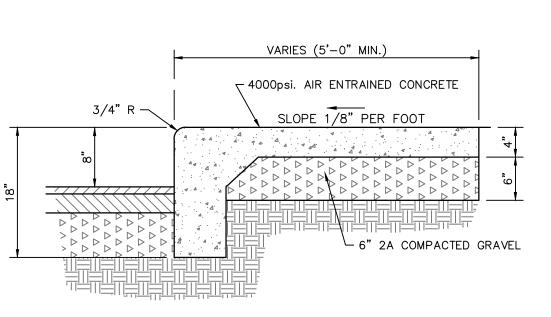
11 or 13 foot black or green fiberglass, boulevard style, mounted on concrete foundation

ALTERNATE POLE: 14 foot round black steel or spun aluminum

ELECTRIC SUPPLY: Underground

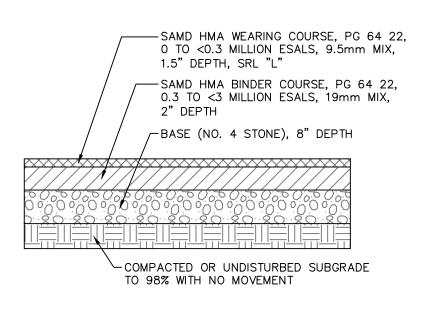
Low-mount underground, Rate Schedule SLE Light-Emitting Diode (LED)

Want to know more about the PPL Electric Utilities Outdoor Lighting Program? Call your PPL Electric Utilities representative or PPL Electric Utilities Customer Service Business Accounts 1-888-220-9991, option 4 on IVR during business hours 8 a.m. to 5 p.m.

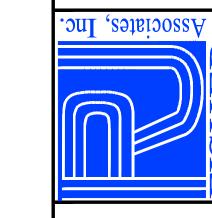


MONOLITHIC CONCRETE CURB/SIDEWALK DETAIL AT PARKING AREAS

N.T.S.



PRIVATE STREET / PARKING PAVING DETAIL NOT TO SCALE

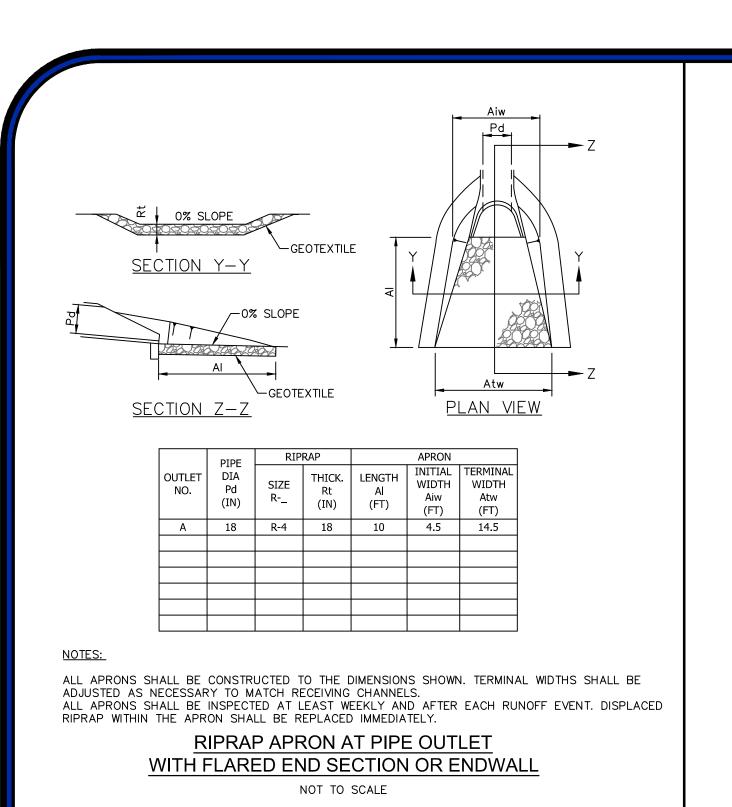


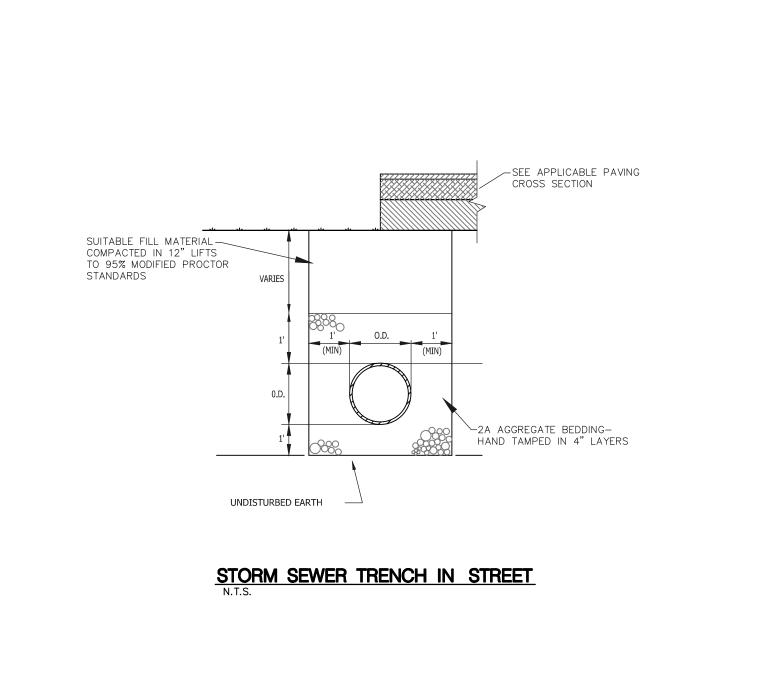
FISHER

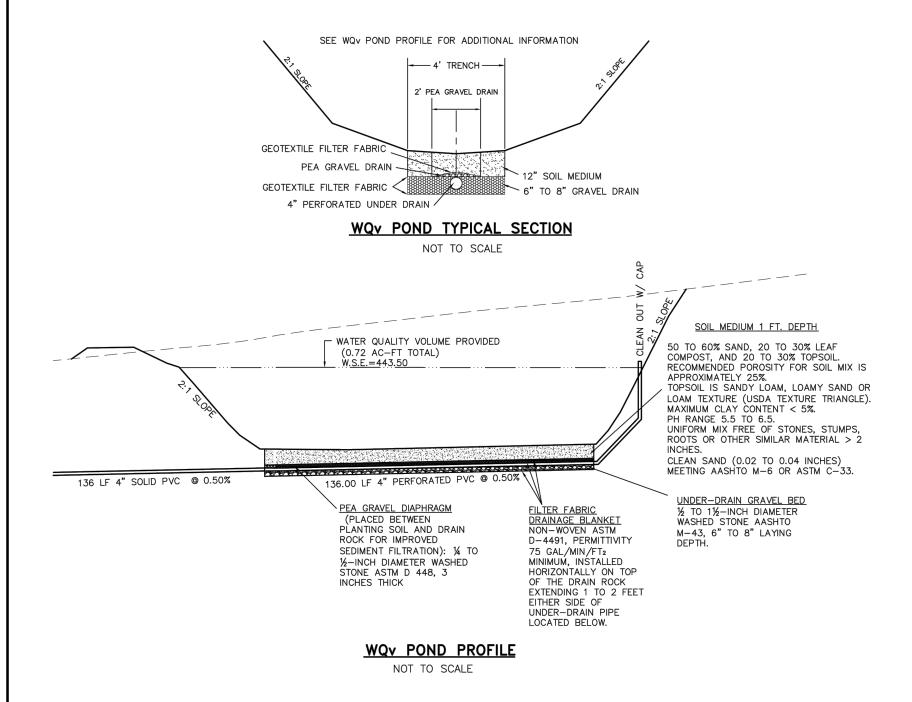
DRAWING ID: 222012-DET

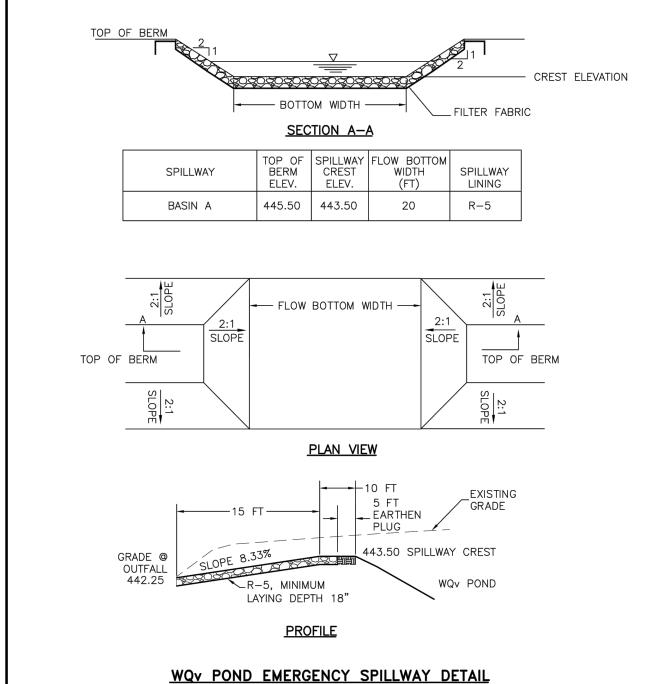
PROJECT: 220021 4/8/2022

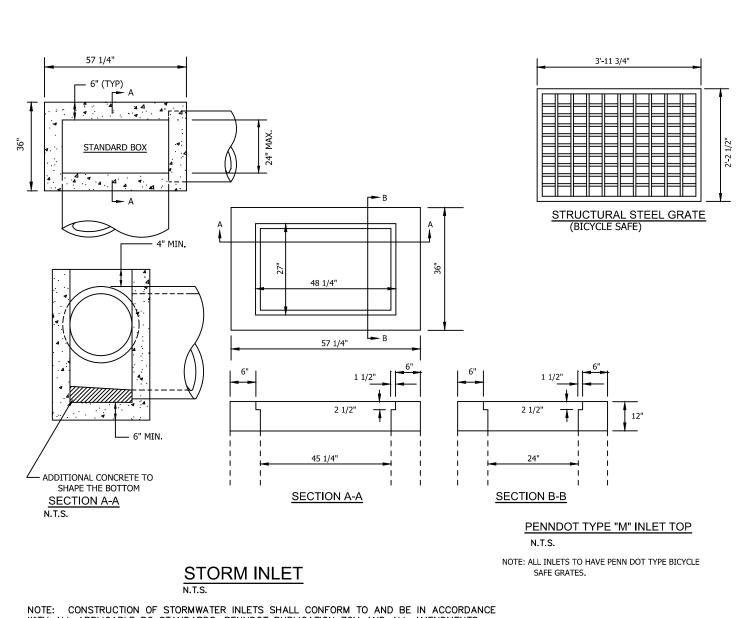
DETAILS SITE

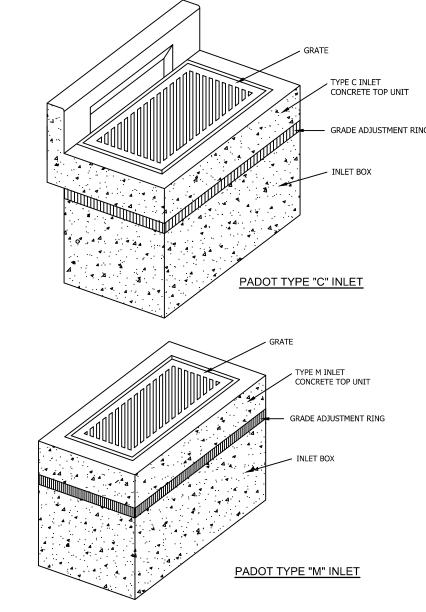


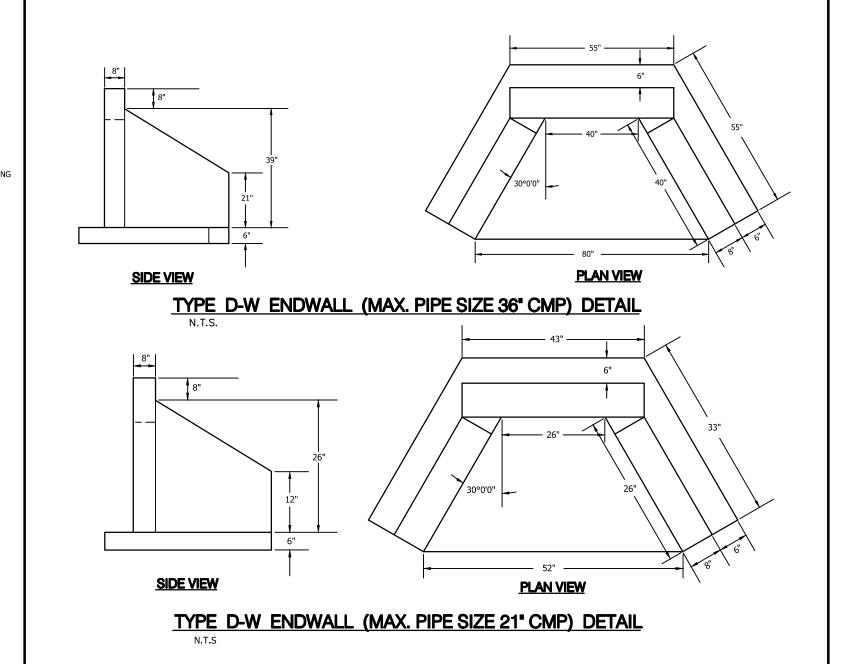














THE FOLLOWING STAGES REQUIRE INSPECTION BY THE ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE. 1. INSTALLATION OF WATER QUALITY BASIN UNDERDRAIN SYSTEM PRIOR TO BACKFILL.

2. PLACEMENT OF SOIL MIX. CERTIFICATION OF SOIL MIXES AND/OR AMENDMENTS INDICATING THE SPECIFICATION HAS BEEN MET SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER PRIOR TO ACCEPTANCE.

3. AS-BUILTS PROVIDED TO THE ENGINEER AFTER FINAL GRADING HAS BEEN COMPLETED TO VERIFY VOLUME. THIS STEP TO BE COMPLETED PRIOR TO SEEDING AND FINAL STABILIZATION. THE ENGINEER MAY REQUEST MODIFICATION OF THE BASIN GRADES IF TOTAL STORAGE VOLUME HAS NOT BEEN ACHIEVED.

PCSM NOTES:

1. OPERATIONS AND MAINTENANCE OF ALL ON-SITE POST CONSTRUCTION STORMWATER MANAGEMENT BMP'S SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, COMMERCE DRIVE DAUPHIN, LP, OR ITS SUCCESSORS.

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

3. BLEND ANY EXCESS MATERIAL INTO THE SITE WHERE FEASIBLE. IF ANY REMAINING EXCESS MATERIAL IS TO BE REMOVED FROM THE SITE, THE CONTRACTOR MUST FIRST OBTAIN APPROVAL BY THE DCCD, AND THE OFF-SITE DISPOSAL AREA MUST HAVE AN APPROVED E&S CONTROL PLAN.

4. WASTES THAT MAY BE GENERATED INCLUDE EXCESS SOIL OR ROCK FROM EARTHMOVING AND BUILDING AND CONSTRUCTION WASTES.

OPERATION AND MAINTENANCE NOTES:

1. THE OWNER WILL PERIODICALLY REMOVE ANY ACCUMULATED DEBRIS FROM THE WATER QUALITY POND AND ITS INLET AND OUT STRUCTURES, AND DISPOSE IN A MANNER ACCEPTABLE TO THE TOWNSHIP.

2. THE OWNER WILL REPAIR ANY AREAS OF RIPRAP OR SLOPES THAT SHOW SIGNS OF SCOUR OR EROSION.

3. EMBANKMENTS SHALL BE KEPT FREE OF TREES AND OTHER WOODY VEGETATION.

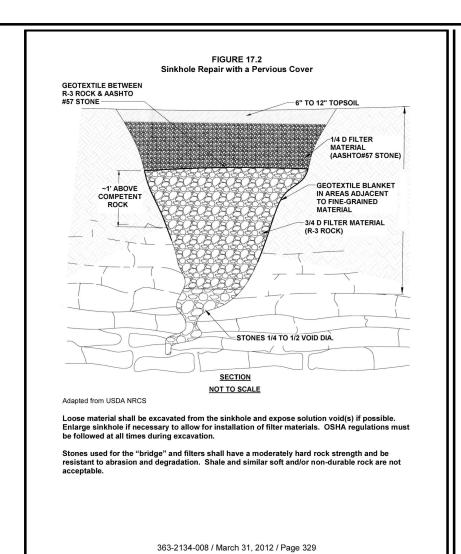
4. THE OWNER WILL INSPECT THE EMBANKMENTS EVERY THREE YEARS AND AFTER MAJOR RAINFALL EVENTS.

5. THE OWNER WILL MOW THE GRASS AS NEEDED TO MAINTAIN A SUITABLE COVER.

6. THE OWNER WILL MAKE ANY NECESSARY REPAIRS TO THE EMBANKMENT IF LEAKAGE IS DETECTED AT THE DOWNSTREAM TOE. LEAKAGE COULD BE INDICATED BY THE PRESENCE OF EMERGING WETLAND PLANTS.

7. THE OWNER WILL MAKE REPAIRS TO THE EMERGENCY SPILLWAY IF ANY RUTS OR RILLS ARE EVIDENT.

8. THE OWNER WILL MAKE A VISUAL INSPECTION OF THE EMERGENCY SPILLWAY AFTER ANY 10-YEAR FREQUENCY OR GREATER STORMS.



THEN USE R-5 STONE UP TO ABOUT 36" FROM FINISHED GRADE.
5. FOLD THE GEOTEXTILE FILTER FABRIC OVER ITSELF TO CREATE A "BAG."

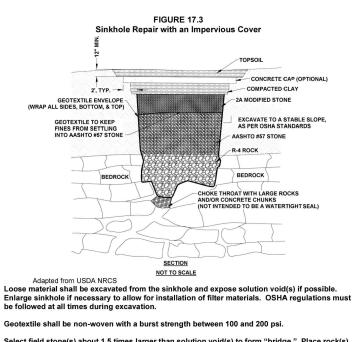
GENERAL SINKHOLE REPAIR POLICIES:

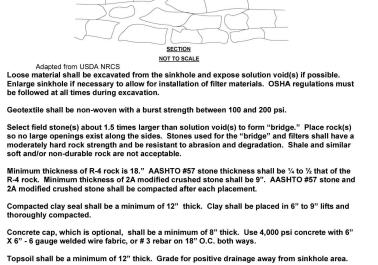
WITH ALL APPLICABLE RC STANDARDS, PENNDOT PUBLICATION 72M AND ALL AMENDMENTS.

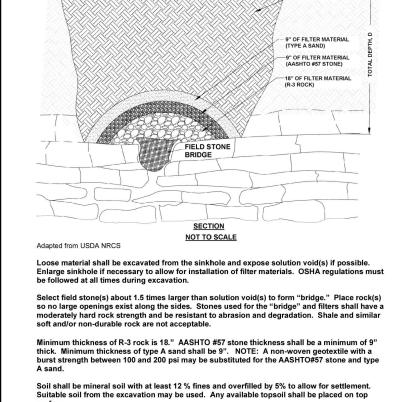
. THE AREA OF THE SINKHOLE SHOULD BE EXCAVATED UNTIL THE "THROAT" OF THE SINKHOLE IS DISCOVERED. . ALL LOOSE SOIL OR MATERIAL SHOULD BE REMOVED.

THE THROAT OF THE SINKHOLE SHOULD BE EVALUATED FOR STABILITY AND/OR THE PRESENCE OF ADDITIONAL FRACTURES. THE SINKHOLE SHOULD THEN BE BACKFILLED USING A GEOTEXTILE FILTER FABRIC FIRST, NO6 GEOTEXTILE CLASS 1 TYPE B.

6. ADD ABOUT 24" OF 2A MODIFIED STONE TO AROUND A FOOT BELOW FINAL GRADE DEPENDING ON WHERE THE SINKHOLE IS AND WHAT MATERIAL IS NEEDED TO FINISH BACKFILLING.



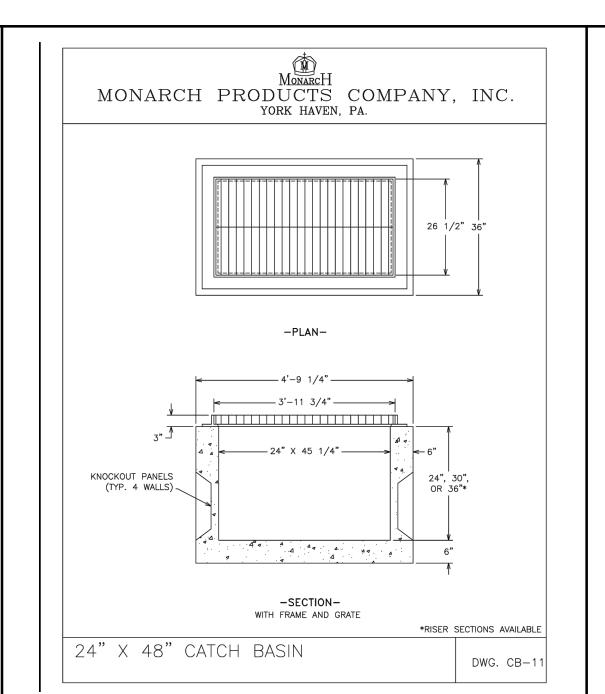




inkhole Repair with Soil Cover

-SOIL MATERIAL

Loose material shall be excavated from the sinkhole and expose solution void(s) it possible. Enlarge sinkhole if necessary to allow for installation of filter materials. OSHA regulations must be followed at all times during excavation.
Select field stone(s) about 1.5 times larger than solution void(s) to form "bridge." Place rock(s) so no large openings exist along the sides. Stones used for the "bridge" and filters shall have a moderately hard rock strength and be resistant to abrasion and degradation. Shale and similar soft and/or non-durable rock are not acceptable.
Minimum thickness of R-3 rock is 18." AASHTO #57 stone thickness shall be a minimum of 9" thick. Minimum thickness of type A sand shall be 9". NOTE: A non-woven geotextile with a burst strength between 100 and 200 psi may be substituted for the AASHTO#57 stone and type A sand.
Soil shall be mineral soil with at least 12 % fines and overfilled by 5% to allow for settlement. Suitable soil from the excavation may be used. Any available topsoil shall be placed on top surface.



363-2134-008 / March 31, 2012 / Page 330 363-2134-008 / March 31, 2012 / Page 331 SINKHOLE AND SINKHOLE AREA TREATMENT

DET. DRAWING ID:

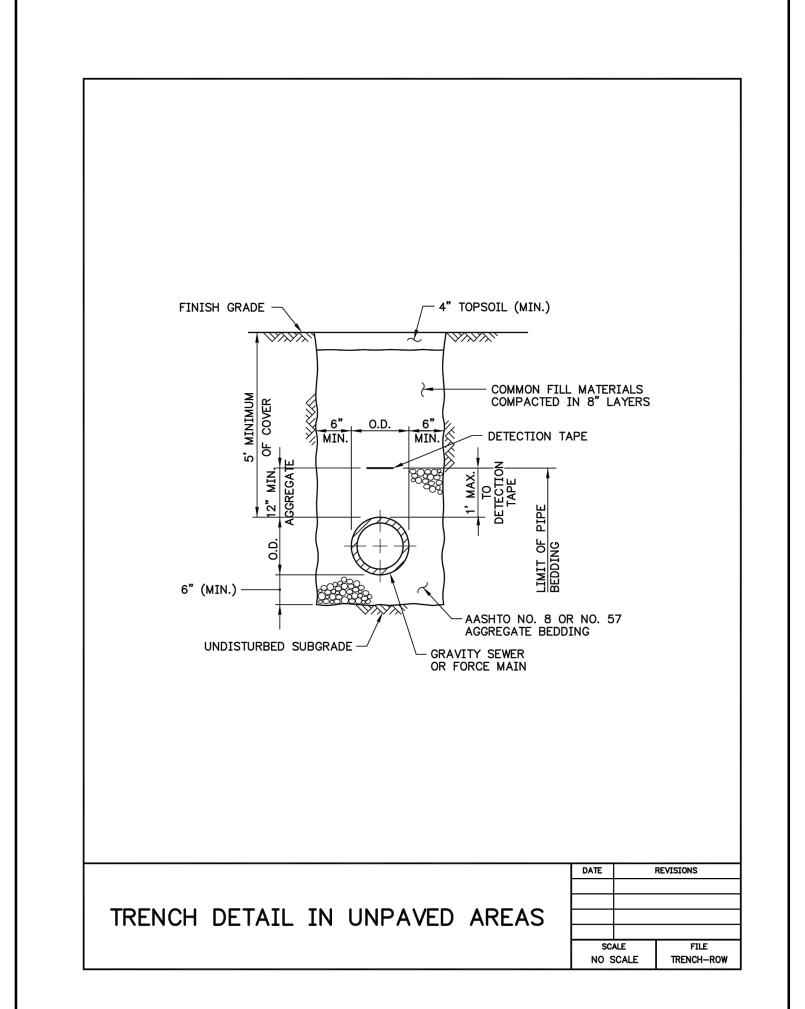
222012-DET PROJECT: 220021 4/8/2022

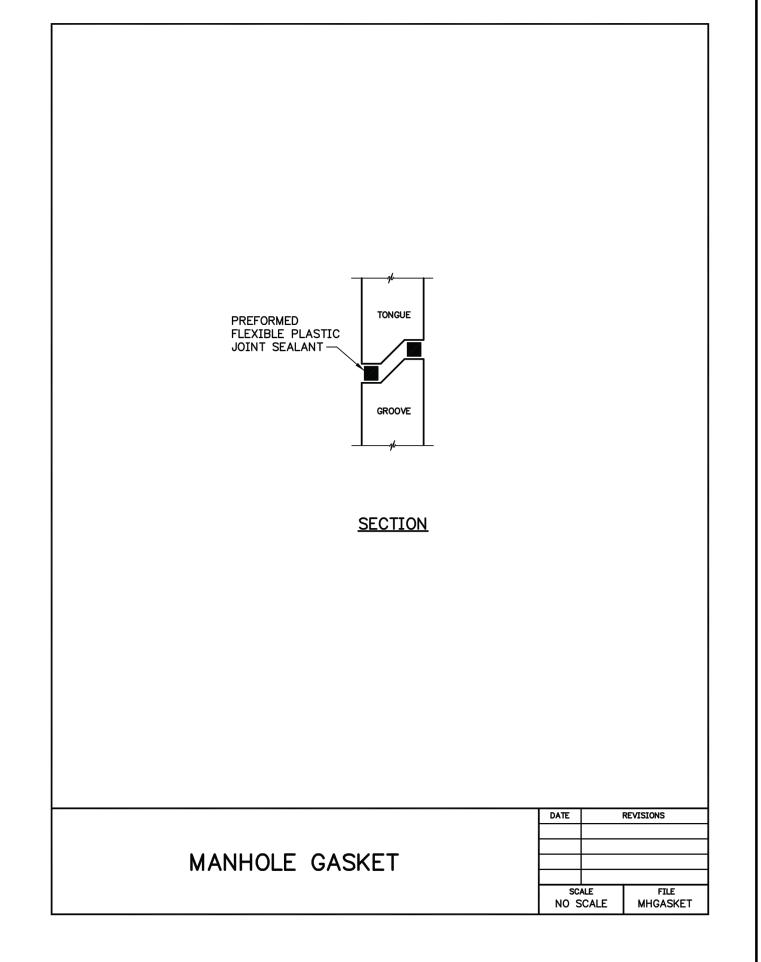
1546 BRIDGE (PHONE: (717 R J F I S H I

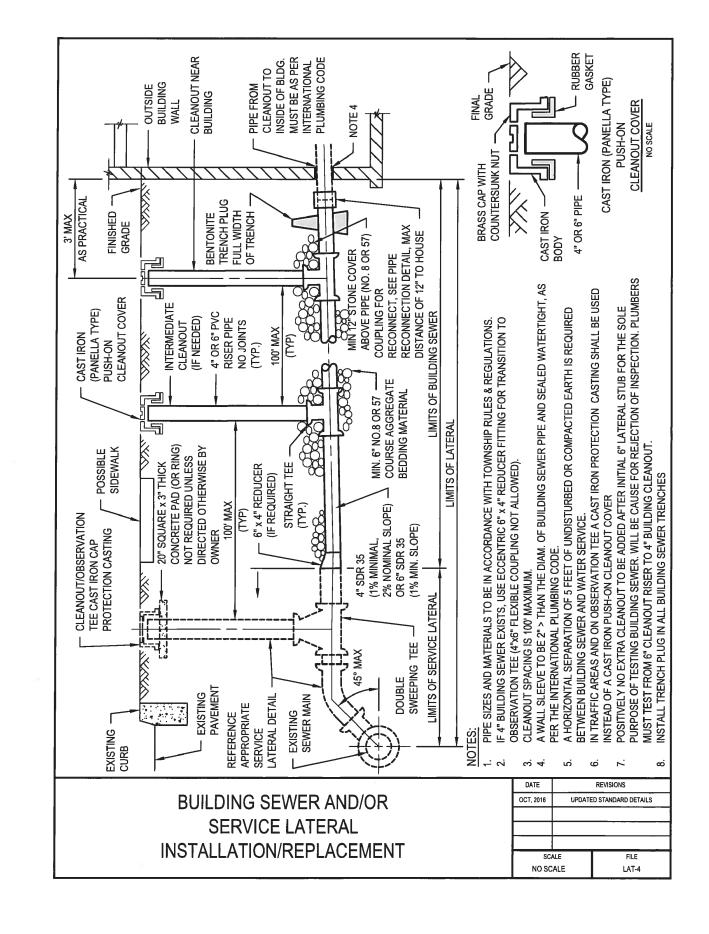
Associates, Inc

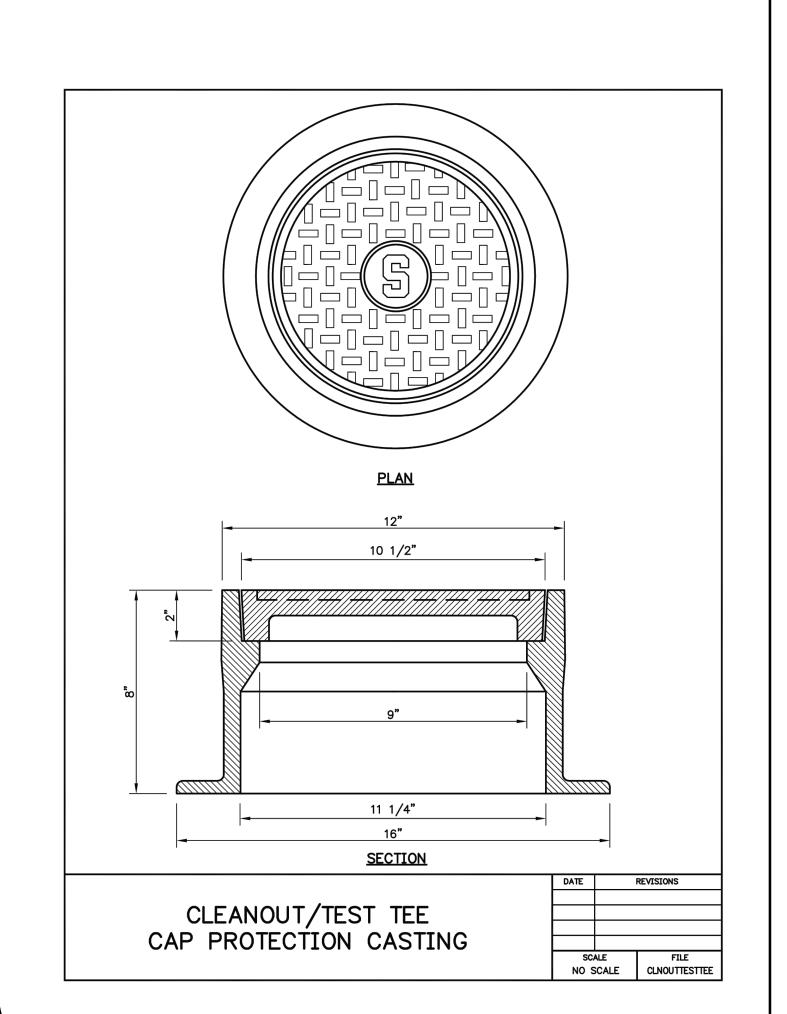
E

SHEET:









SANITARY SEWER NOTES:

and backfill complete.

1. All materials used and construction methods employed are to be in accordance with the

Susquehanna Township Authority.

3. Contractor shall test pit all existing utility crossings prior to installing any sanitary sewer pipe to verify existing horizontal and vertical elevations to assure no conflict with new sewer.

4. When sewer is installed through Authority rights of way including planter islands, no trees, landscape walls, etc. shall be installed within limits easement in accordance with the

5. Existing tie—in manhole will need to pass a vacuum test after the connection is constructed

7. 2A stone should extend to virgin ground under the pipe in the area where compaction testing is required. The Authority will CCTV the pipe for acceptance testing, and will require repair

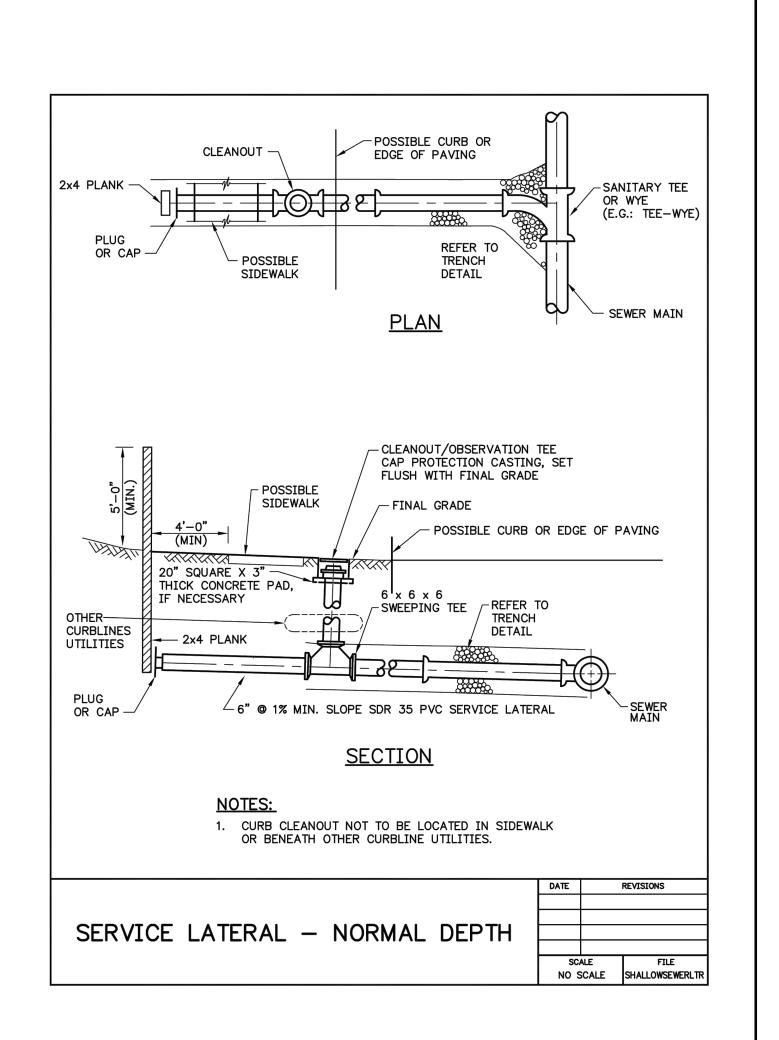
2. For sewer detail drawings reference Standard Construction and Material Specifications,

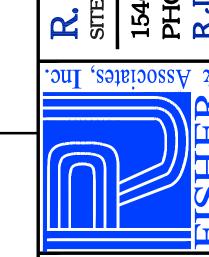
latest standards of the Susquehanna Township Authority.

Authority's standard Deed of Dedication.

for sewer dedication if pipe sagging occurs.

6. All service laterals shall be 6 inch pipes.





FISHER ANNING CIVIL

DETAIL

SEWER SANITARY

DRAWING ID: 222012-DET

PROJECT: 220021 4/8/2022

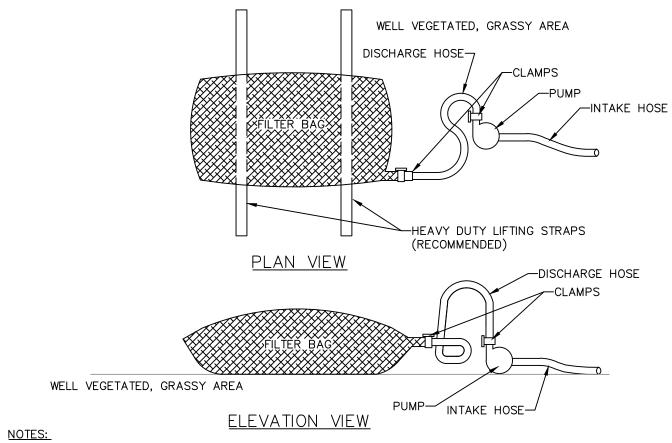


SECTION NTS NOTES:

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT. - 2" X 2" X 36" WOODEN STAKES PLACED 5' O.C. 24" DIAMETER COMPOST FILTER SOCK, 4' MIN. OVERLAP ON UPSLOPE

A suitable impervious geomembrane shall be placed at the location of the washout prior to installing the socks. Adapted from Filtrexx

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

TEST METHOD	MINIMUM STANDARD
ASTM D-4884	60 LB/IN
ASTM D-4632	205 LB
ASTM D-4833	110 LB
ASTM D-3786	350 PSI
ASTM D-4355	70%
ASTM D-4751	80 SIEVE
	ASTM D-4884 ASTM D-4632 ASTM D-4833 ASTM D-3786 ASTM D-4355

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

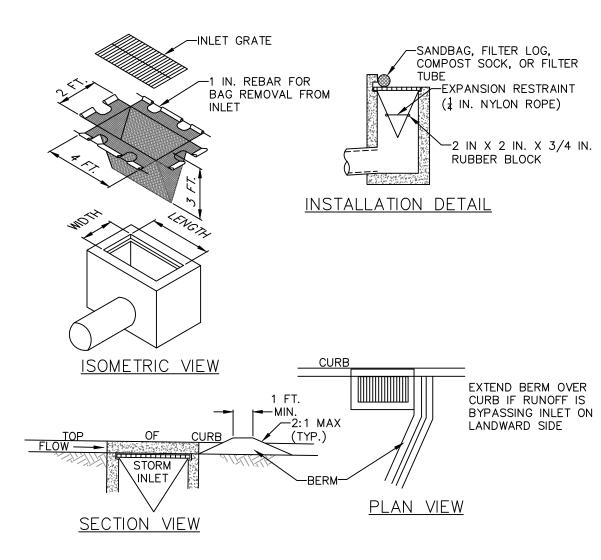
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

> STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG



MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-15 FILTER BAG INLET PROTECTION - TYPE C INLET

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DRAWING ID: 222012-DET

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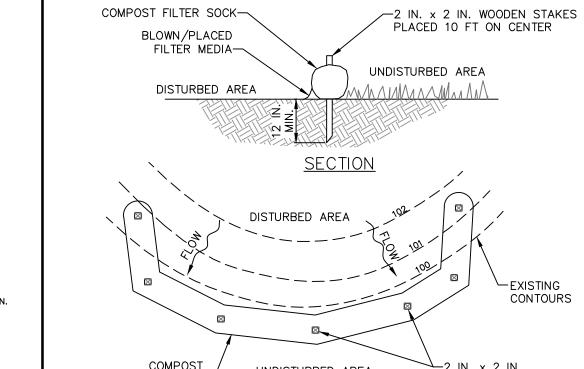
NOTE: EROSION CONTROL MATTING SHALL BE NORTH AMERICAN GREEN S75, OR APPROVED EQUAL. 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL—O—SEED DO NOT SEED PREPARED AREA. CELL—O—SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP—SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN. 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION CONTROL MATTING ON SLOPE



COMPOST FILTER SOCK NOT TO SCALE

<u>PLAN VIEW</u>

UNDISTURBED AREA

WOODEN STAKES

CENTER

PLACED 10 FT ON

FILTER SOCK-

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN

24 HOURS OF INSPECTION. BIODEGRADABLE COMPOST 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

SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMEN								
COMPOST FILTER SOCK TABLE								
SOCK NO. DIA.(IN)		LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)				
1	18	AS SHOWN ON E&S PLAN	7.8	206				
2	12	AS SHOWN ON E&S PLAN	4.0	100				
3	12	AS SHOWN ON E&S PLAN	5.6	180				
4	18	AS SHOWN ON E&S PLAN	3.9	254				
5	18	AS SHOWN ON E&S PLAN	4.0	252				
6	12	AS SHOWN ON E&S PLAN	2.0	150				
7	12	AS SHOWN ON E&S PLAN	2.0	96				
8	12	AS SHOWN ON E&S PLAN	2.9	204				

GEOTEXTILE/ MIN 8" AASHTO #1 REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. *GROUND* EXTEND ROCK OVER FULL WIDTH OF ENTRANCE. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL **PROFILE** BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE. 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 TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY <u>Plan view</u> DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE

-MOUNTABLE BERM (6 IN. MIN.)* EXISTING ROADWAY ~EARTH FILL PIPE AS NECESSARY

* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

GENERAL NOTES

- 1. The site contractor and their designees shall familiarize themselves with this Erosion Control Plan. The site contractor shall be responsible for implementation of this Erosion Control Plan.
- 2. The site contractor shall not disturb more area than is necessary for the task to be done, so that potential for erosion is minimized. 3. The site contractor shall ensure that earth disturbance activities are planned and implemented to
- the extent practicable in accordance with the following: a. Minimize the extent and duration of the earth disturbance
- b. Maximize protection of existing drainage features and vegetation. c. Minimize soil compaction.
- d. Utilize other measures or controls that prevent or minimize the generation of increased stormwater runoff.
- 4. Erosion and sedimentation controls must be constructed, stabilized, and functional before site disturbance within the tributary areas to the controls.
- 5. A copy of the approved Erosion and Sediment Control Plan / Drawings (stamped, signed and dated by the reviewing agency) must be available at the project site at all times.
- 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 Construction Sequence for that stage or phase have been installed and are functioning as described in this document.
- 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 operation begin.
- 8. Topsoil stockpile heights shall not exceed 35 feet. Stockpile side slopes must be 2:1 or flatter. . Solids, trash and other pollutants shall be disposed in accordance with federal and state regulations in order to prevent any pollutant in such materials from adversely affectina the environment. All building materials and wastes must be removed from the site and recycled or disposed in accordance with the Department of Environmental Protection's Solid Waste Management regulations at 25 Pa. Code 260, 260.1 et seq., 271.1, and 287.1 et seq. No building TEMPORARY SEEDING SCHEDULE materials or wastes or unused building materials shall be burned, buried, dumped, or discharged
- at the site. 10. All off-site waste and borrow areas must have an E & S Plan approved by the Conservation
- District or DEP, and fully implemented prior to being activated. 11. The contractor will be responsible for the removal of any excess material and make sure the

slopes in competent bedrock and rock fills need not be vegetated.

12. The contractor is responsible for ensuring that any material brought onto the site is Clean Fill. Form FP-001 must be retained by the property owner for any fill material affected by a spill or

plan that meets the conditions of Chapter 102 and/or other State or Federal regulations.

release of a regulated substance but qualifying as Clean Fill due to analytical testing. 13. Areas which are to be topsoiled shall be scarified to a minimum depth of 4 inches prior to

site(s) receiving the excess has an approved and fully implemented erosion and sediment control

- placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill outslopes shall have a minimum of 2 inches of topsoil. 14. All graded areas shall be permanently stabilized immediately upon reaching finished grade. Cut
- 15. Cut and fill slopes shall be capable of resisting failure due to slumping, sliding, or other 16. All E & S BMPs must remain functional as such until all areas tributary to them are permanently
- stabilized or until they are replaced by another BMP approved by the Conservation District or PA 17. After final site stabilization has been achieved, temporary E & S BMPs must be removed or
- converted to permanent post construction stormwater management BMPs. Areas disturbed during removal or conversion of the BMPs must be stabilized immediately. In order to ensure rapid revegetation of disturbed areas, such removal / conversions should be done only during the germinating season. 18. Failure to correctly install E & S BMPs, failure to prevent sediment—laden runoff from leaving the construction site, or failure to take immediate corrective action to resolve failure of E & S BMPs
- may result in administrative, civil, and/or criminal penalties being instituted by the Pennsylvania Department of Environmental Protection as defined in Section 602 of the Pennsylvania Clean Streams law. The Clean Streams law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for
- 19. Only limited disturbance will be permitted to initially access and acquire borrow to construct
- control facilities, before general site alteration begins. 20. If fuel or other dangerous chemicals are stored on site, then a Preparedness, Prevention and Contingency (PPC) Plan must be developed and kept on site.
- 21. Underground utilities cutting through any active channel shall be immediately backfilled and the channel restored to its original cross—section and protective lining. Any base flow within the channel shall be conveyed past the work in the manner described in this plan until such
- 22. All channels must be kept free of obstructions such as fill ground, fallen leaves & woody debris, accumulated sediment, and construction materials/wastes. Channels should be kept mowed and/or free of all weedy, brushy or woody growth. Any underground utilities running across/through the channel(s) shall be immediately backfilled and the channel(s) repaired and
- stabilized per the channel cross—section detail. 23. Vegetated channels shall be constructed free of rocks, tree roots, stumps or other projections that will impede normal channel flow and/or prevent good lining to soil contact. The channel
- shall be initially over-excavated to allow for the placement of topsoil. 24. Sediment basins/traps shall be kept free of all trash, concrete wash water and other debris that pose the potential for clogging the basin/trap outlet structures and/or pose the potential for pollution to waters of the Commonwealth.
- 25. 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 sea., 271.1., and 287.1 et sea. No building materials or wastes or unused building materials shall be burned, buried, dumped, or discharged at the site.
- 26. Fill Materials: a. The NPDES Permit covers the "moving, depositing, stockpiling, or storing of soil rock or earth materials." If the site will need to have fill imported from an off site location, the responsibility for performing environmental due diligence and the determination of clean fill will in most cases reside with the Operator. If the site will have excess fill that will need to be exported to an off site location, the responsibility of clean fill determination and the environmental due diligence rests on the applicant. If all cut and fill materials will be used on the site, a clean fill determination is not required by the operator unless there is a belief that a spill or release of a regulated substance occurred on site. The contractor is responsible for ensuring that any material brought onto the 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 but qualifying as Clean Fill due to analytical testing.
- b. Applicants and/or operators must use environmental due diligence to ensure that the fill material associated with this project qualifies as Clean Fill. Definitions of Clean Fill and Environmental Due Diligence are provided below. All fill material must be used in accordance with the Department's policy "Management of Fill", document number 258-2182-773. A copy of this policy is available online at www.depweb.state.pa.us. Under the heading Quick Access on the left side of the screen, click on "Forms and Publications." On the left side of the screen click on "Technical Guidance Documents— Final." Then type the document number 258—2182—773 into the search window and conduct the search. Click on "Management of Fill."
- c. 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.)
- d. Clean Fill affected by a spill or release of a regulated substance: Fill materials affected by a spill or release of a regulated substance still gualifies as clean fill provided the testing reveals that the fill material contains concentrations of regulated substances that are below the residential limits in Tables FP—1a and FP—1b found in the Department's policy "Management of
- e. 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." f. 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.
- 27. The potential for thermal impacts exists in the temporary condition as the existing vegetation on the site is disturbed, and un-shaded water will sit in the sediment traps. The thermal impacts will be minimized by infiltrating a portion of the runoff and temporary seeding disturbed areas as soon as possible.

SOIL LIMITATIONS & RESOLUTIONS

The soils on this site tend to be easily erodible, and may be susceptible to piping. A solution to this limitation is to grade the site at acceptable slopes (2:1 cut, 3:1 fill), and to stabilize the slopes as soon as they've been graded. The soils on this site are also corrosive to concrete. which the use of plastic pipes will help to alleviate. As are most soils in PA, the soils on this site can lead to cut banks that may cave. Proper stabilization will be utilized when digging pipe trenches and foundations. The soils on this site also have issues with slow percolation. Test pits ensure that these limitations were analyzed for this site. These tests also allowed us to analyze the amount of topsoil present, which may be a limitation on the site.

SITE PRESERVATION ANALYSIS

There is a stream channel located on the north side of this site. In order to preserve, maintain and protect it, grading will be minimized at the location of the stream and silt socks will be placed along the stream's border to ensure that sediment laden runoff does not pollute the stream. Soil compaction will be kept to a minimum around the stream. Due to the nature of the development, which includes homes and surrounding streets, it was not possible to minimize the impervious areas on the site. There are no significant drainage features and vegetation to protect on this site. Most of the site area will have to be cleared and graded in order to construct the proposed improvements. The soil will experience some compaction in all of the areas where grading will occur, however compaction will be kept to a minimum in the areas of the proposed basins. The increase in the stormwater runoff volume in the 2-year storm will be

STABILIZATION SPECIFICATIONS

- . Upon temporary cessation of an earth disturbance activity or any stage or phase of an activity where a cessation of earth disturbance activities will exceed 4 days, the site shall be immediately seeded, mulched, or otherwise protected from accelerated erosion and sedimentation pending future earth disturbance activities.
- 2. Permanent stabilization is defined as a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding and other movements.
- 3. Topsoil required for the establishment of vegetation shall be stockpiled at the location(s) shown on the plan drawings in the amount necessary to complete the finish grading of all exposed greas that are to be stabilized by vegetation. Each stockpile shall be protected in the manner shown on the plan drawings. Topsoil stockpile heights shall not exceed 35 feet. Stockpile side slopes must be
- 4. Areas which are to be topsoiled shall be scarified to a minimum depth of 3 to 5 inches (6 to 12 inches on compacted soils) prior to placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill outslopes shall have a minimum of 2 inches of topsoil.
- 5. Topsoil should not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. Compacted soils should be scarified 6 to 12 inches along contour whenever possible prior to seeding.
- 6. An erosion control blanket will be installed on all disturbed slopes 3:1 or steeper, all areas of concentrated flows, and disturbed areas within 50' of a surface water.

The contractor shall immediately temporarily stabilize any rough graded area, topsoil stockpile or unused excavated fill material that will be left idle for less than 1 year. The grass will provide interim protection against the impact of precipitation, running water and wind. Permanently seed any 9. Construct apartment buildings. area that will be idle for more than 1 year.

Temporary seeding schedule is as follows:

annual rve arass % Live Seed: Application rate: 10 lbs./l,000 sq. yds.

Fertilizer type: general purpose granular, 10-20-20 Fertilizer application rate: 11 lbs./l,000 sq. yds. Powdered Liming rate: per soil test; minimum of 4 tons per acre.

Strawbale mulch rate: 1,200 lbs/l,000 sq. yds.

Seeding dates: no seeding between 11/1 and 3/15 Mulch anchoring: Asphalt, either emulsified or cut—back, containing no solvents or other dilutina agents toxic to plant or animal life, uniformly applied at the rate of 31 gallons per 1,000 square yards. Synthetic binders (chemical binders) may be used per manufacturer's recommendation provided they are non-toxic to plant and animal species. 1.

When seeding is not possible due to the time of year or other limitations, disturbed area shall be mulched with strawbales at the rate above. An erosion control blanket must be installed on all disturbed slopes steeper than 3:1, and all areas with concentrated flows. Matting can be North American Green 'S75' or approved equal.

PERMANENT SEEDING SCHEDULE--

All disturbed soil not to be covered with impervious surfaces, riprap or landscaping mulch shall be permanently seeded to provide protection against the impact of precipitation, running water and wind. Permanent seeding schedule for the general project area is as follows:

30% Kentucky bluegrass 40% Pennlawn Creeping Red Fescue 20% Norlea Perennial ryegrass

10% annual ryegrass % Pure live seed: 98%

Application rate: 6 lbs./1,000 sq. ft. Fertilizer type: general purpose granular, 10-20-20

Fertilizer application rate: 11 lbs./1,000 sq. yds. Powdered Liming rate: per soil test; minimum of 6 tons per acre

Seeding dates: between 4/1 and 10/15

Strawbale mulching rate: 3 tons per acre Mulch anchoring: Asphalt, either emulsified or cut-back, containing no solvents or other diluting agents toxic to plant or animal life, uniformly applied at the rate of 31 gallons per 1.000 square yards. Synthetic binders (chemical binders) may be used per manufacturer's recommendation provided they are non-toxic to plant and animal

An erosion control blanket must be installed on all disturbed slopes steeper than 3:1, and all areas with concentrated flows. Matting can be North American Green "S75" or approved equivalent

A minimum of 6" of topsoil shall be placed prior to seeding.

MAINTENANCE PLAN

. Until the site is stabilized, all erosion and sediment control BMPs must be maintained properly. Responsibility for implementing and maintaining erosion and sedimentation control measures shall be designated to a minimum of one individual who will be present at the project site each working day. Maintenance must include inspections of all erosion and sediment control BMPs after each runoff event and on a weekly basis, to ensure that they are in place, stable, and functioning properly. All preventative and remedial maintenance work, including clean out, repair, replacement, re-grading, reseeding, re-mulching, and re-netting must be performed immediately, to restore the control measure to the original design. If erosion and sediment control BMPs fail to perform as expected, replacement BMPs, or modifications of those installed, will be required.

- 2. A loa 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.
- 3. Any sediment removed from BMPs during construction shall be returned to upland areas within the project area, and incorporated into the site grading, or in the manner described on the plan
- 4. See the construction details and seeding specifications for maintenance procedures for the various
- 5. Mud must be removed from vehicle tires before they exit the site. 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.

STAGING OF EARTH MOVING ACTIVITIES

- 1. 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 underground utilities.
- 2. All earth disturbance activities shall proceed in accordance with the following specific sequencing. 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. Any deviation from the following sequence must be approved in writing from the County
- and/or sediment pollution, the operator shall implement appropriate best management practices to eliminate the potential for accelerated erosion and/or sediment pollution.

3. Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion

- 4. At least 7 days before starting any earth disturbance activities, the owner and/or operator shall invite all contractors involved in those activities, the landowner, all appropriate municipal officials. and a representative of the County Conservation District to an on—site pre—construction meeting.
- 5. Immediately after earth disturbance activities cease, the operator shall stabilize the disturbed areas. During non-germinating periods, mulch must be applied at the specified rates. Disturbed areas which are not at finished arade and which will be re-disturbed within 1 year must be stabilized in accordance with the temporary seeding vegetative stabilization specifications. Disturbed areas which are not at final grade or which will not be re-disturbed within 1 year must be stabilized in accordance with the permanent seeding vegetative stabilization specifications.
- 6. All pumping of sediment laden water shall be through a sediment control BMP, such as a pumped water filter bag or equivalent sediment removal facility, over undisturbed vegetated areas.
- and infiltration tests were performed in the area of the basins and underground infiltration beds to 7. The permanent stormwater retention areas shown on the drawings shall be delineated by the land surveyor prior to beginning of earthmoving activities, and this area shall be fenced off during construction so that it is not disturbed until it is time for permanent final grading and seeding, at which time it can be shaped per the grading plan. No vehicles should be driven over the retention area except as necessary for final shaping and seeding.

SPECIFIC STAGING OF EARTHMOVING ACTIVITIES FOR MASS GRADING AND INSTALLATION OF COMMON IMPROVEMENTS

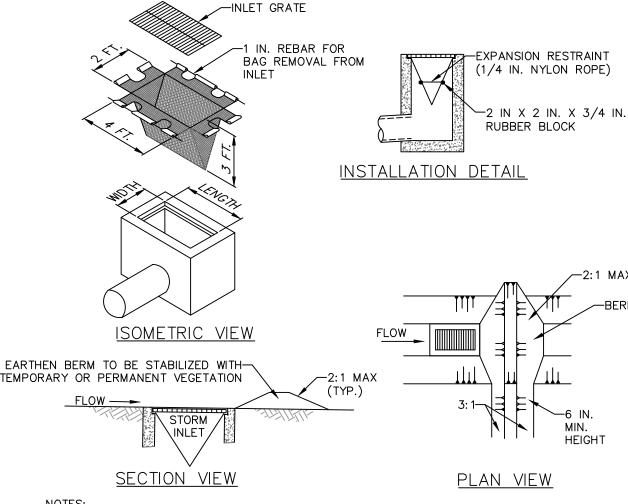
- No earth disturbance should be started until the E&S BMP's treating the disturbed area are installed and functioning.
- Clearly field mark the limits of disturbance. Install the rock construction entrances. The rock construction entrances shall be continually maintained to the specified dimensions. A stockpile of AASHTO #1 coarse aggregate shall be on the site for this purpose. At the end of each workday, any sediment deposited on paved roadways shall be removed and returned to the construction site. Field mark the topsoil stockpile locations. Topsoil stockpiles shall be stabilized utilizing the temporary seeding schedule and shall have sediment barriers located downstream to capture any sediment laden runoff. Stockpiles shall not exceed 35' in height and side slopes must be 2:1 or flatter. Field mark the locations of the Waters of the Commonwealth located within the NPDES boundary including wetland boundaries and streams.
- 3. Install all Sediment Barriers at the locations shown on the E&S Plan. Disturbance shall be restricted to that which is only necessary to access and install the designated sediment barriers.
- Strip the topsoil in the area of Sediment Trap. Clear and grub as necessary. Construct Sediment Trap 1. Minimize compaction within the sediment trap during construction. Install cleanout marker. Stabilize the sediment trap immediately once the facility is constructed. Monitor the sediment trap through the duration of the construction activity to ensure trapped sediment does not exceed the cleanout marker elevation.
- 5. Strip the topsoil within the remaining area that will be graded. Clear and grub as necessary.
- 6. Complete the mass grading. Minimize soil compaction within the undisturbed areas.
- 7. Install sanitary sewer system. Backfill pipe trenches as soon as possible. Install waterline services and any underground electric, telephone, cable or other utilities.
- 8. Install storm sewer system. Backfill pipe trenches as soon as possible.
- 10. Stabilize soil immediately and install temporary seeding as soon as possible.

CONVERSION TO PCSM

- Temporary control measures can only be removed when the watershed draining to the measure is permanently stabilized and removal is authorized by the County Conservation District. Permanently stabilized is defined as a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density capable to resist accelerated surface erosion, and subsurface characteristics sufficient to resist sliding and other movements. The location of the control measure must be immediately permanently stabilized upon its removal. All areas to be permanently seeded shall have a minimum depth of 6" of topsoil before seeding.
- 2. Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operators shall contact the County Conservation District for an inspection prior to the removal of the E&S BMP's.
- 3. Upon approval from the County Conservation District, all silt barriers shall be properly removed.
- 4. Any areas disturbed during the removal of the temporary BMPs shall be immediately repaired and permanently stabilized.
- 5. Before the Sediment Trap is converted, the County Conservation District shall be notified in order to determine if an inspection of the BMP is necessary before conversion. Dewater the Sediment Basin and remove accumulated sediment, regrade to subgrade elevation, and fill basin perimeter to final grades. Remove trash rack and anti-vortex device and replace with permanent top unit structure. All temporary orifices in the permanent outlet structure shall be capped. A temporary erosion control blanket shall be installed with the permanent seed and mulch over the entire interior of the basin. Permanently stabilize all areas disturbed during removal of E&S Controls. As this is a critical stage, a licensed professional must be present to oversee.
- Upon completion of all earth disturbance activities, removal of all temporary BMPs, the owner/operators shall contact the County Conservation District for a final inspection.
- 7. The Contractor shall contact the Township Engineer at 24 hours prior to the start of any basin conversion to facilitate construction observation.

RECYCLING OR DISPOSAL OF MATERIALS:

Disposal of removed material is dependent on the nature of the drainage area and the intent and function of the BMP. BMPs that primarily catch sediment and detritus from areas such as lawns may reuse the waste on the site. Pollutants such as man made trash and other non-reusable materials must be removed and deposited in an approved recycling facility or landfill.



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS. STANDARD CONSTRUCTION DETAIL #4-16

FILTER BAG INLET PROTECTION - TYPE M INLET

NATIVE STEEP SLOPE MIX W/ANNUAL RYEGRASS

- 31.1% Sorqhastrum nutans, New England 2 Ecotype (Indiangrass, New England 2 Ecotype)
- 20.0% Lolium multiflorum (Annual Ryegrass) 14.0% Andropogon gerardii, 'Niagara' (Big Bluestem, 'Niagara') 10.0% Elymus virginicus, 'Madison' (Virginia Wildrye, 'Madison')

SPECIALTY SEEDING SCHEDULES:

(APPLY TO ALL 3:1 OR STEEPER SLOPES)

7.0% Elymus canadensis (Canada Wildrye)

- 4.0% Agrostis perennans, Albany Pine Bush-NY Ecotype (Autumn Bentgrass, Albany Pine Bush-NY Ecotype) 4.0% Panicum virgatum, 'Carthage', NC Ecotype (Switchgrass, 'Carthage', NC Ecotype)
- 3.0% Panicum clandestinum, Tioga (Deertongue, Tioga) 1.5% Echinacea purpurea (Purple Coneflower)
- 1.3% Chamaecrista fasciculata, PA Ecotype (Partridge Pea, PA Ecotype)
- 1.2% Heliopsis helianthoides, PA Ecotype (Oxeve Sunflower, PA Ecotype) 1.0% Coreopsis lanceolata (Lanceleaf Coreopsis)
- 1.0% Rudbeckia hirta (Blackeyed Susan) 0.3% Monarda fistulosa, Fort Indiantown Gap-PA Ecotype (Wild Bergamot, Fort Indiantown Gap-PA Ecotype) grass (1 May to 31 Aug; 10 lbs/acre).
- 0.2% Asclepias syriaca (Common Milkweed) 0.2% Solidago rugosa, PA Ecotype (Wrinkleleaf Goldenrod, PA Ecotype)
- 0.1% Aster lateriflorus (Calico Aster) 0.1% Aster pilosus, PA Ecotype (Heath Aster, PA Ecotype)
- Item Number: ERNMX-181 Height: 1.0 – 6.3 Ft

Seeding Rate: 60 lb per acre, or 1.5 lb per 1,000 sq ft

RETENTION BASIN FLOOR MIX – LOW MAINTENANCE

(APPLY TO BOTTOM OF STORMWATER BASIN)

Mix Composition 20.0% Panicum clandestinum, Tioga (Deertongue, Tioga) 20.0% Puccinellia distans, Fults (Alkaligrass, Fults) 18.0% Elymus virginicus, 'Madison' (Virginia Wildrye, 'Madison') 15.0% Agrostis stolonifera (Creeping Bentgrass)

15.0% Poa palustris (Fowl Bluegrass) 10.0% Carex vulpinoidea, PA Ecotype (Fox Sedge, PA Ecotype) 1.0% Carex scoparia, PA Ecotype (Blunt Broom Sedge, PA Ecotype) 1.0% Juncus effusus (Soft Rush)

Item Number: ERNMX-126

Seeding Rate: 20-40 lbs per acre, or 0.5-1 lb/1,000 sq ft with a cover crop. For a cover crop use one of the following: grain rye (1 Sep to 30 Apr; 30 lbs/acre), Japanese millet (1 May to 31 Aug; 10 lbs/acre), or barnyard

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