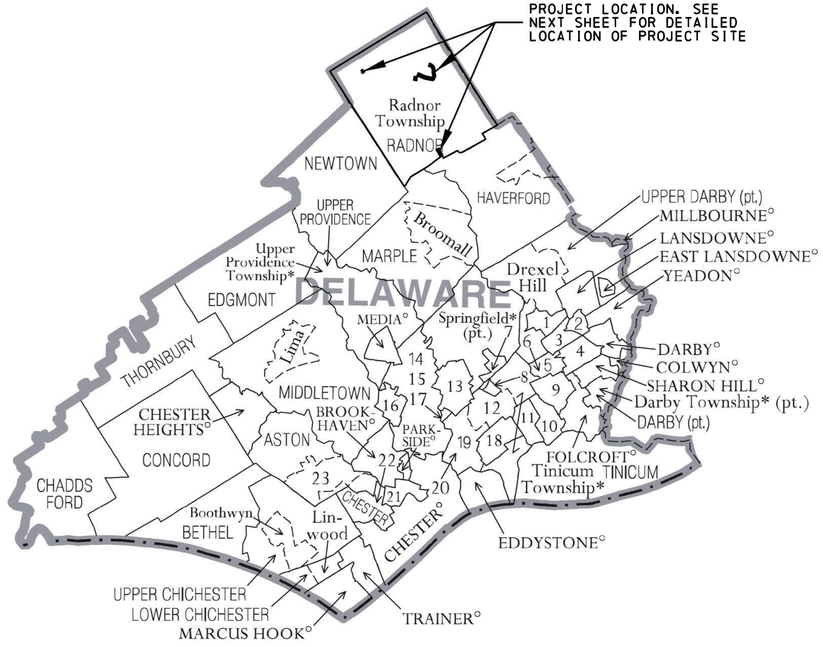
RADNOR TOWNSHIP TRAIL
DRAWINGS
FOR
NPDES PERMIT AND RADNOR TOWNSHIP STORMWATER MANAGEMENT PERMIT
EROSION AND SEDIMENT POLLUTION CONTROL PLAN
FOR
RADNOR TOWNSHIP, DELAWARE COUNTY PA

INDEX OF SHEETS



DELAWARE COUNTY TOWNSHIP MAP

PLAN PREPARATION
DESIGNER: A.D. MARBLE

A.D. MARBLE
environmental·cultural·engineering
2200 RENAISSANCE BLVD.
SUITE 260
KING OF PRUSSIA, PA 19406
TEL: (484) 533-2500
FAX: (484) 533-2599
WWW.ADMARBLE.COM

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JENNI ERIN WOODWORTH — NO.PE087302

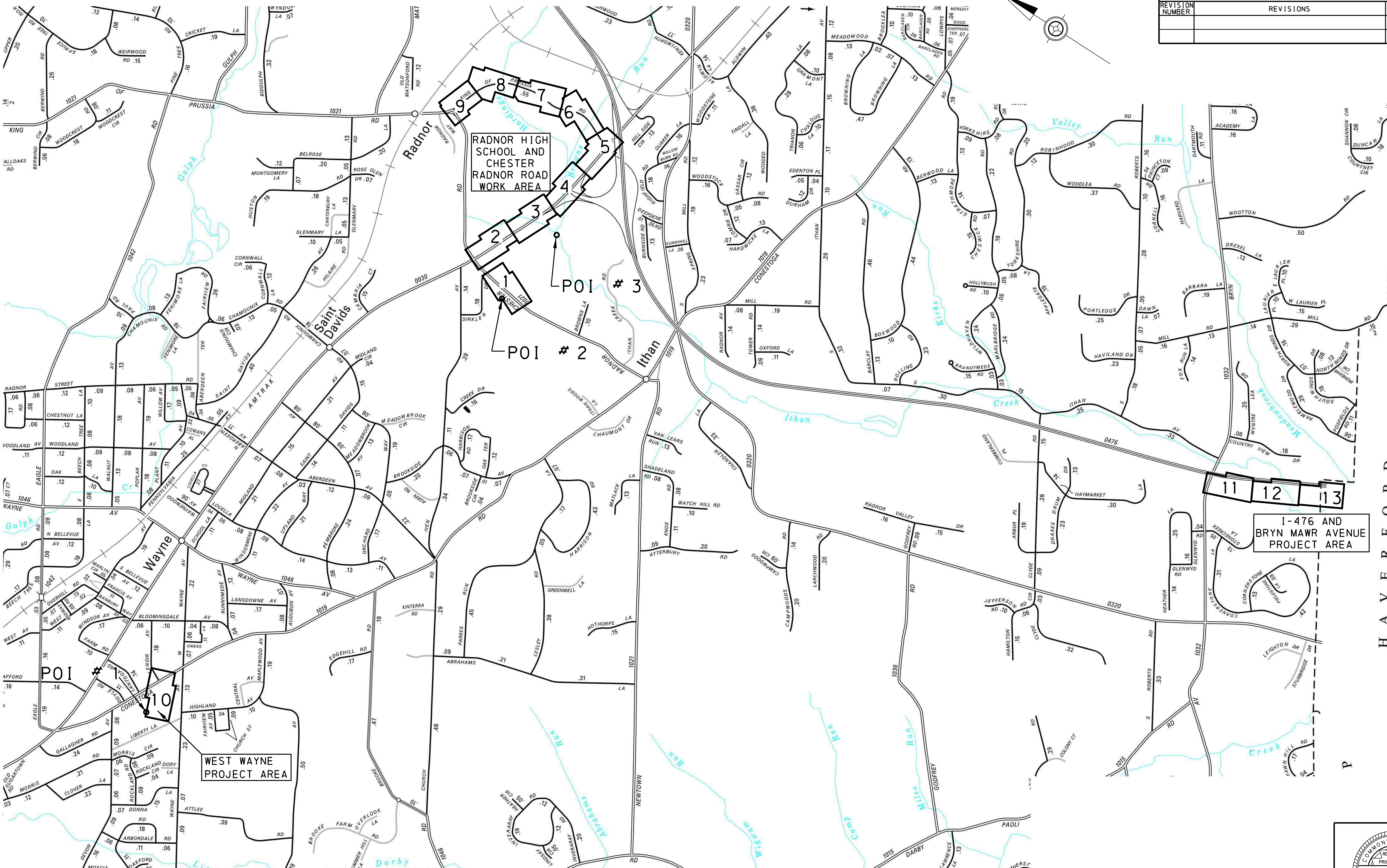
11-12-2019

OWNER/APPLICANT:
RADNOR TOWNSHIP
301 IVEN AVENUE
WAYNE, PA 19087
CONTACT: STEPHEN NORCINI, PE
TOWNSHIP ENGINEER
PH: 610-688-5600

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	2 OF 47

RADNOR TOWNSHIP

REVISION NUMBER	REVISIONS	DATE	BY



LEGEND

X	ESC SHEET LOCATION

SHEET LOCATION INDEX AND POI LOCATIONS

0 750 1500
SCALE IN FEET: 1"=750'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

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A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\ESPC\Sheet Index Plan 01.dgn

DESIGN BY: EBD | CHECKED BY: JEW

DWG IND-01 OF 01

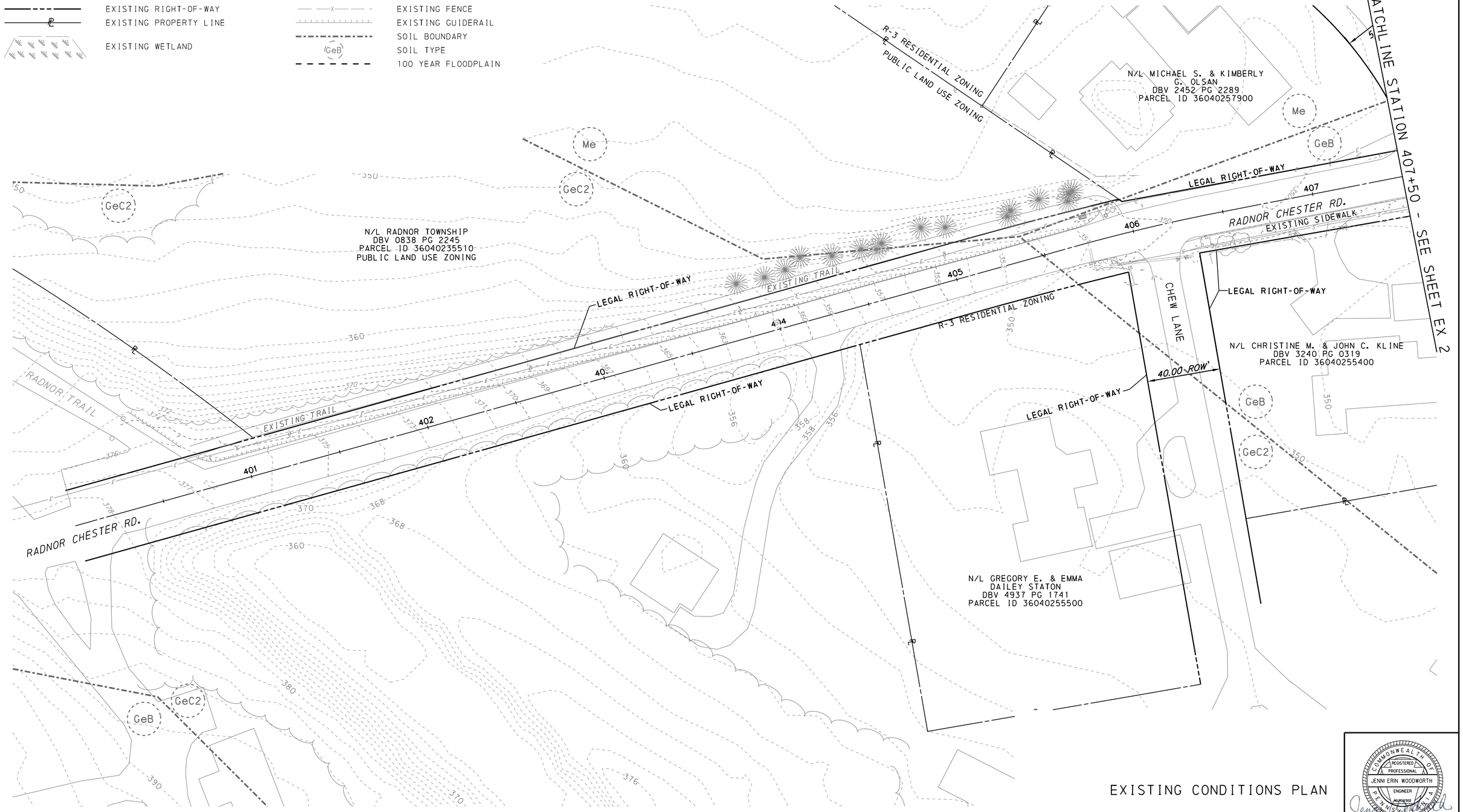
11-12-2019

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	3 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375 EXISTING CONTOUR MAJOR	S EXISTING SANITARY SEWER
374 EXISTING CONTOUR MINOR	T EXISTING UNDERGROUND TELEPHONE
EXISTING STREAM BOUNDARY	E EXISTING ELECTRIC LINE
EXISTING TREE	W EXISTING WATER LINE
UTILITY POLE, LIGHT POLE, SIGN	G EXISTING GAS LINE
EXISTING WOOD LINE	C EXISTING UNDERGROUND CONDUIT
EXISTING RIGHT-OF-WAY	X EXISTING FENCE
EXISTING PROPERTY LINE	EXISTING GUIDERAIL
EXISTING WETLAND	SOIL BOUNDARY
(GeB)	SOIL TYPE
	100 YEAR FLOODPLAIN



EXISTING CONDITIONS PLAN

SCALE IN FEET: 1"=25'

DESIGN BY: EBD | CHECKED BY: JEW

DWG EX-01 OF 13

11-12-2019

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

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A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\ESPC\Existing Plan 01.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	4 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

RADNOR TOWNSHIP SCHOOL DISTRICT
PARCEL ID 36020123310
PUBLIC LAND USE ZONING

WoA

GeB

RADNOR CENTER RD.

411

EXISTING SIDEWALK

EXISTING DIRT HIKING PATH

LEGAL RIGHT OF WAY

E. LANCASTER AVE.
(S.R. 30) WESTBOUND

303 304 305 306 307 308 309 310

E. LANCASTER AVE.
(S.R. 30) EASTBOUND

345 346 348 350 352 354 355 356

410

RADNOR CENTER RD.

LEGAL RIGHT OF WAY

N/L LOUIE BREBIS
CLEMENTINE III &
PROVCO PARTNERS LLC
C/O
DBV 3759 PG 0479
PARCEL ID 36040256100

EXISTING SIDEWALK

409

354 353 352 351

LEGAL RIGHT OF WAY

408

N/L MICHAEL R. MATTERN &
PETER DO
DBV 2319 PG 1319
PARCEL ID 36040256500

MATCHLINE STATION 407+50 - SEE SHEET EX 1

MATCHLINE STATION 310+50 - SEE SHEET EX 3

GeB

GeC2

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
	EXISTING STREAM BOUNDARY
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
℄	EXISTING PROPERTY LINE
	EXISTING WETLAND
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
X	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	100 YEAR FLOODPLAIN

EXISTING CONDITIONS PLAN

0 25 50
SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

11-12-2019

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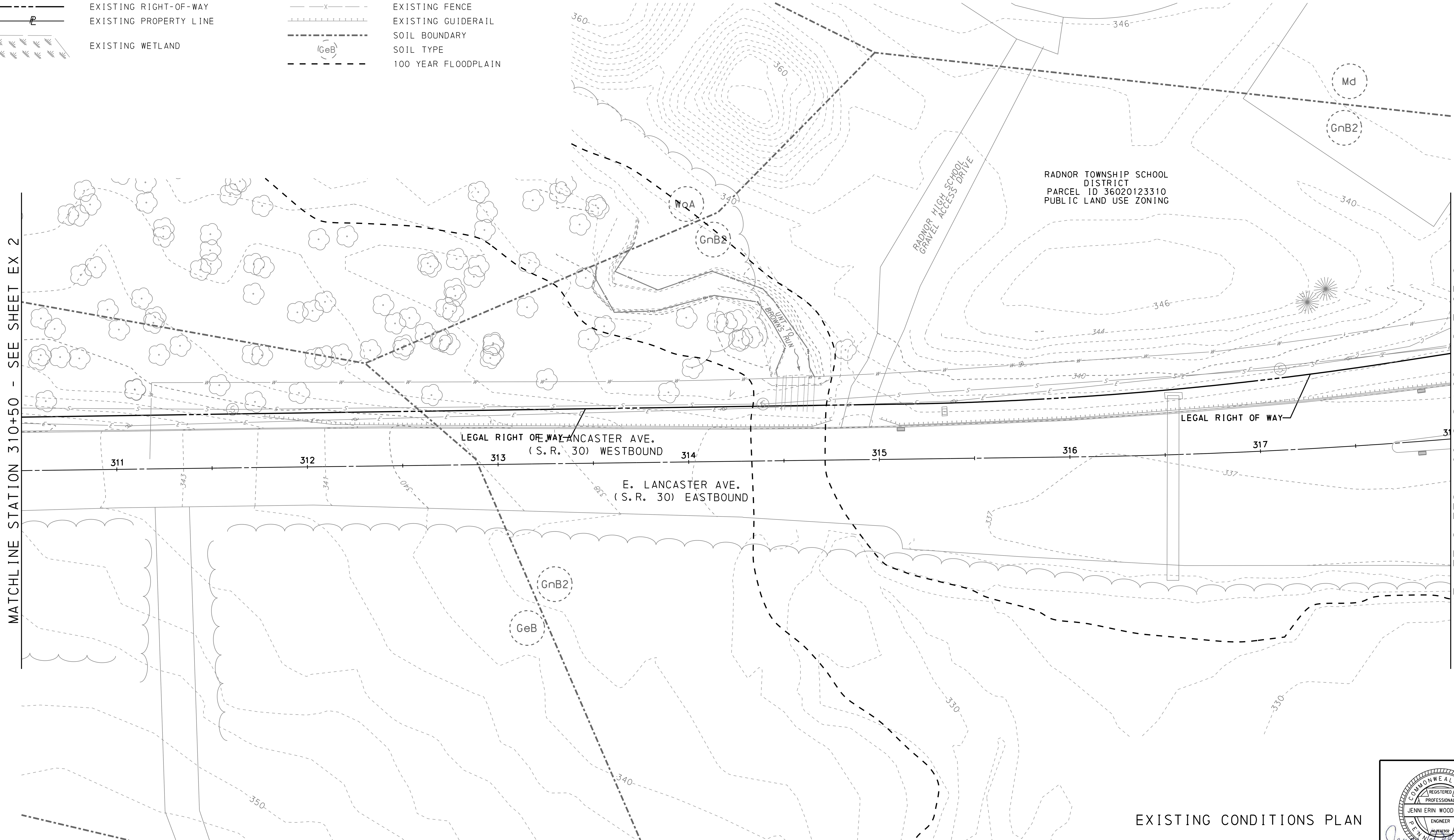
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	5 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

EXISTING CONTOUR MAJOR	EXISTING SANITARY SEWER
EXISTING CONTOUR MINOR	EXISTING UNDERGROUND TELEPHONE
EXISTING STREAM BOUNDARY	EXISTING ELECTRIC LINE
EXISTING TREE	EXISTING WATER LINE
UTILITY POLE, LIGHT POLE, SIGN	EXISTING GAS LINE
EXISTING WOOD LINE	EXISTING UNDERGROUND CONDUIT
EXISTING RIGHT-OF-WAY	EXISTING FENCE
EXISTING PROPERTY LINE	EXISTING GUIDERAIL
EXISTING WETLAND	SOIL BOUNDARY
	SOIL TYPE
	100 YEAR FLOODPLAIN



EXISTING CONDITIONS PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
JENNI ERIN WOODWORTH

11-12-2019

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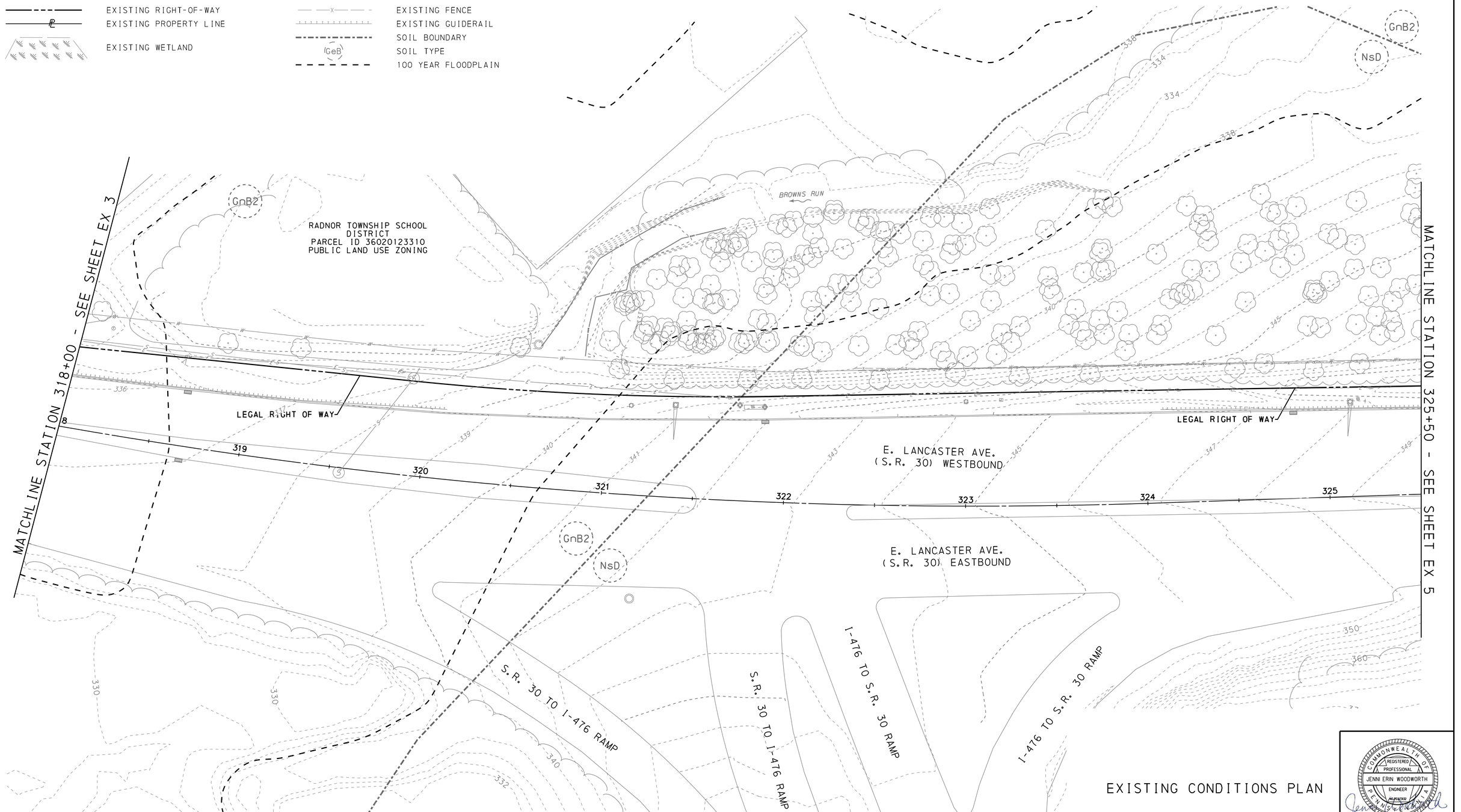
FILE NAME: X:\Projects\P1585\CADD\Plan\ESPC\Existing Plan 03.dgn
A.D. MARBLE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	6 OF 47
RADNOR TOWNSHIP				
REVISION NUMBER	REVISIONS		DATE	BY

LEGEND

- 375 — EXISTING CONTOUR MAJOR
- 374 — EXISTING CONTOUR MINOR
- EXISTING STREAM BOUNDARY
- EXISTING TREE
- UTILITY POLE, LIGHT POLE, SIGN
- EXISTING WOOD LINE
- EXISTING RIGHT-OF-WAY
- ℄ EXISTING PROPERTY LINE
- EXISTING WETLAND
- S — EXISTING SANITARY SEWER
- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- C — EXISTING UNDERGROUND CONDUIT
- X — EXISTING FENCE
- EXISTING GUIDERAIL
- SOIL BOUNDARY
- (GeB) SOIL TYPE
- 100 YEAR FLOODPLAIN



EXISTING CONDITIONS PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

DESIGN BY: EBD | CHECKED BY: JEW

DWG EX-04 OF 13

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JENNI ERIN WOODWORTH — ENGINEER — NO. PE082332

11-12-2019

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A.D. MARBLE

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	7 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
	EXISTING STREAM BOUNDARY
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
℄	EXISTING PROPERTY LINE
	EXISTING WETLAND
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
X	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	100 YEAR FLOODPLAIN

MATCHLINE STATION 504+00 - SEE SHEET EX 6

RADNOR TOWNSHIP SCHOOL DISTRICT
PARCEL ID 36020123310
PUBLIC LAND USE ZONING

RADNOR HIGH SCHOOL ATHLETIC FIELD

EXISTING SIDEWALK

KING OF PRUSSIA RD.

RIM 347.74
OUT 342.47

LEGAL RIGHT OF WAY

E. LANCASTER AVE.
(S.R. 30) WESTBOUND

E. LANCASTER AVE.
(S.R. 30) EASTBOUND

I-476 TO S.R. 30 RAMP

MATCHLINE STATION 325+50 - SEE SHEET EX 4

NsD GnB2 GnB2 Me NsD GnB2

340 345 350 353 355 348 356 357 359 360 331 332 333 326 327 328 329 330 386 370

501 502 503

EXISTING CONDITIONS PLAN

SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
No. PE082332

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

DWG EX-05 OF 13

PLOTTED: 11/12/2019 2:13:05 PM

A.D. MARBLE
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	8 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
	EXISTING STREAM BOUNDARY
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
℄	EXISTING PROPERTY LINE
	EXISTING WETLAND
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
X	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	100 YEAR FLOODPLAIN

MATCHLINE STATION 504+00 - SEE SHEET EX 5

MATCHLINE STATION 511+50 - SEE SHEET EX 7

RADNOR TOWNSHIP SCHOOL DISTRICT
PARCEL ID 36020123310
PUBLIC LAND USE ZONING

BROWNS RUN

EXISTING SIDEWALK

LEGAL RIGHT OF WAY

504 505 506 507 508 509 510 511

KING OF PRUSSIA RD.

GnB2 Me

344 350 351 353 355 357 359 361 363 365 367 369 370 380 384 360

EXISTING CONDITIONS PLAN

0 25 50
SCALE IN FEET: 1"=25'

DESIGN BY: EBD | CHECKED BY: JEW

DWG EX-06 OF 13

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
ARCHITECT

11-12-2019

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A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\ESPC\Existing Plan 06.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	9 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- EXISTING CONTOUR MAJOR (375)
- EXISTING CONTOUR MINOR (374)
- EXISTING STREAM BOUNDARY
- EXISTING TREE
- UTILITY POLE, LIGHT POLE, SIGN
- EXISTING WOOD LINE
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING WETLAND
- EXISTING SANITARY SEWER (S)
- EXISTING UNDERGROUND TELEPHONE (T)
- EXISTING ELECTRIC LINE (E)
- EXISTING WATER LINE (W)
- EXISTING GAS LINE (G)
- EXISTING UNDERGROUND CONDUIT (C)
- EXISTING FENCE (X)
- EXISTING GUIDERAIL
- SOIL BOUNDARY
- SOIL TYPE (GeB)
- 100 YEAR FLOODPLAIN

EXISTING CONDITIONS PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

DWG EX-07 OF 13

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JENNI ERIN WOODWORTH

11-12-2019

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A.D. MARBLE
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	10 OF 47

RADNOR TOWNSHIP

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR	S	EXISTING SANITARY SEWER
374	EXISTING CONTOUR MINOR	T	EXISTING UNDERGROUND TELEPHONE
	EXISTING STREAM BOUNDARY	E	EXISTING ELECTRIC LINE
	EXISTING TREE	W	EXISTING WATER LINE
	UTILITY POLE, LIGHT POLE, SIGN	G	EXISTING GAS LINE
	EXISTING WOOD LINE	C	EXISTING UNDERGROUND CONDUIT
	EXISTING RIGHT-OF-WAY	X	EXISTING FENCE
ℙ	EXISTING PROPERTY LINE		EXISTING GUIDERAIL
	EXISTING WETLAND		SOIL BOUNDARY
		(GeB)	SOIL TYPE
			100 YEAR FLOODPLAIN

EXISTING CONDITIONS PLAN

0 25 50
SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

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A.D. MARBLE
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DWG EX-08 OF 13

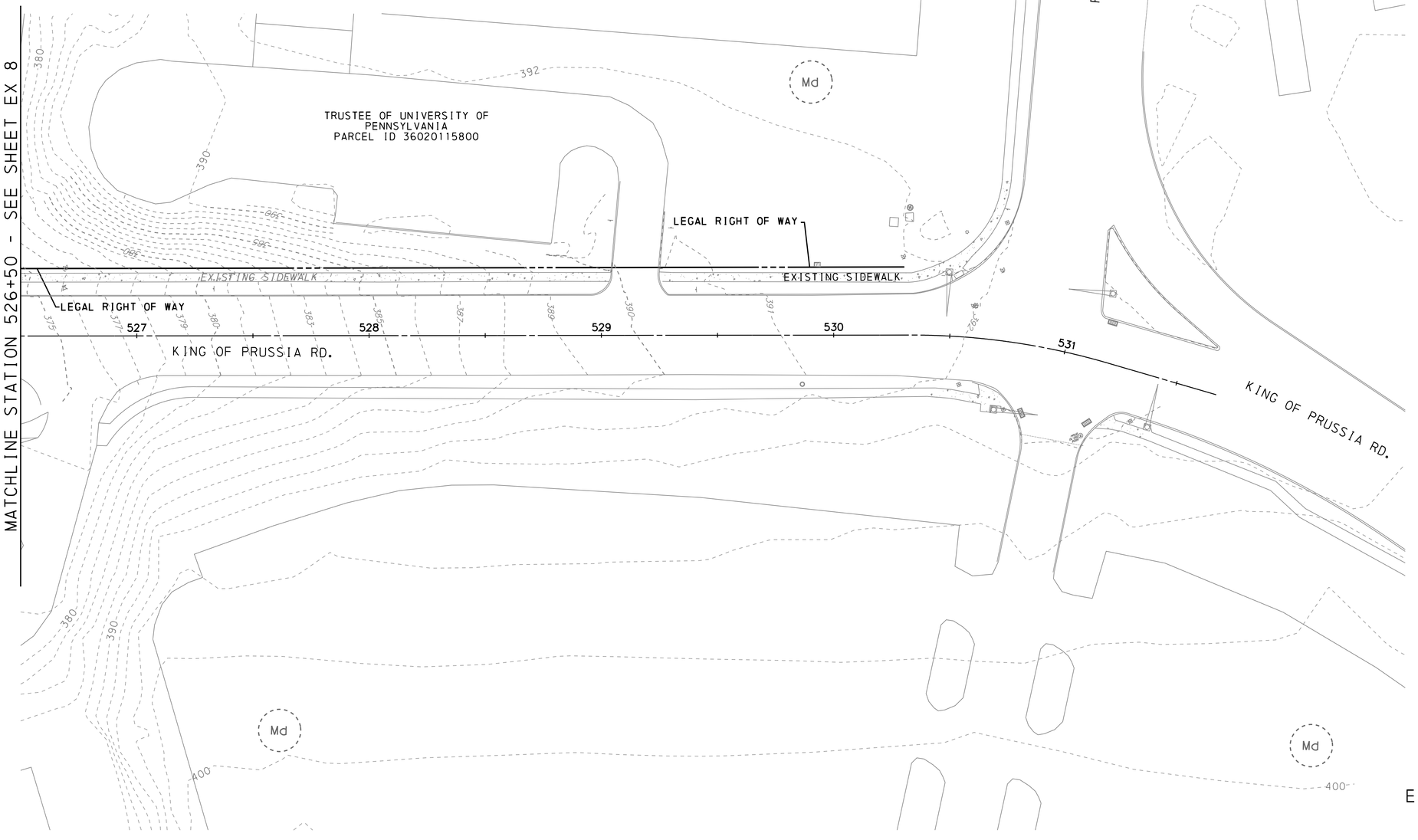
11-12-2019

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	11 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
	EXISTING STREAM BOUNDARY
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
℄	EXISTING PROPERTY LINE
	EXISTING WETLAND
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
X	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	100 YEAR FLOODPLAIN



EXISTING CONDITIONS PLAN

0 25 50
SCALE IN FEET: 1"=25'

DWG EX-09 OF 13

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
No. PE082532

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

A.D. MARBLE
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	12 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

Symbol	Description	Symbol	Description
375	EXISTING CONTOUR MAJOR	S	EXISTING SANITARY SEWER
374	EXISTING CONTOUR MINOR	T	EXISTING UNDERGROUND TELEPHONE
	EXISTING STREAM BOUNDARY	E	EXISTING ELECTRIC LINE
	EXISTING TREE	W	EXISTING WATER LINE
	UTILITY POLE, LIGHT POLE, SIGN	G	EXISTING GAS LINE
	EXISTING WOOD LINE	C	EXISTING UNDERGROUND CONDUIT
	EXISTING RIGHT-OF-WAY	X	EXISTING FENCE
PL	EXISTING PROPERTY LINE		EXISTING GUIDERAIL
	EXISTING WETLAND		SOIL BOUNDARY
		GeB	SOIL TYPE
			100 YEAR FLOODPLAIN

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0 25 50
SCALE IN FEET: 1"=25'

EXISTING CONDITIONS PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
NO.PE073132

DWG EX-10 OF 13

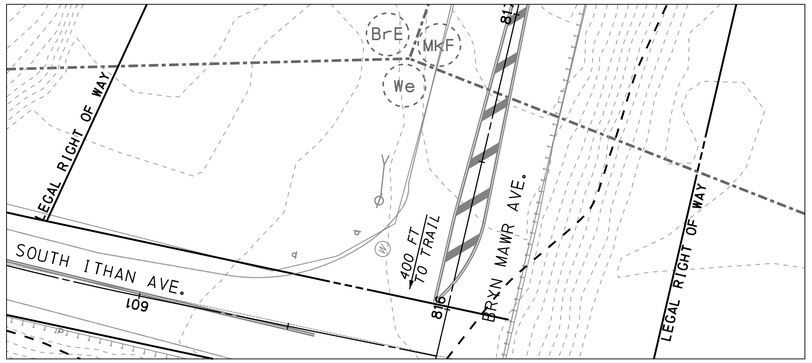
11-12-2019

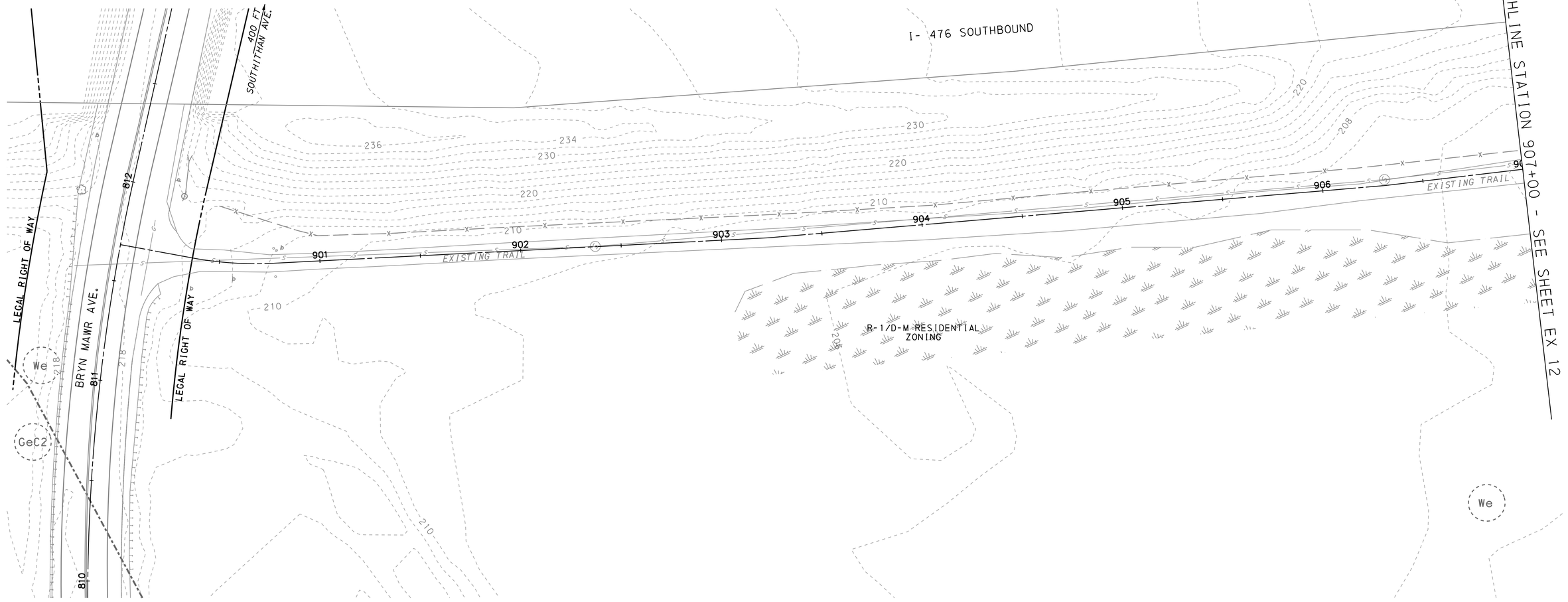
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	13 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- 375 — EXISTING CONTOUR MAJOR
- 374 — EXISTING CONTOUR MINOR
- EXISTING STREAM BOUNDARY
- EXISTING TREE
- UTILITY POLE, LIGHT POLE, SIGN
- EXISTING WOOD LINE
- EXISTING RIGHT-OF-WAY
- ℄ EXISTING PROPERTY LINE
- EXISTING WETLAND
- S — EXISTING SANITARY SEWER
- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- C — EXISTING UNDERGROUND CONDUIT
- x — EXISTING FENCE
- EXISTING GUIDERAIL
- SOIL BOUNDARY
- (GeB) SOIL TYPE
- 100 YEAR FLOODPLAIN





EXISTING CONDITIONS PLAN

SCALE IN FEET: 0 25 50 — 1"=25'

DESIGN BY: EBD | CHECKED BY: JEW

DWG EX-11 OF 13

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JENNI ERIN WOODWORTH — ENGINEER

11-12-2019

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A.D. MARBLE

FILE NAME: X:\Projects\P1585\CADD\Plan\ESPC\Existing Plan 11.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	14 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
	EXISTING STREAM BOUNDARY
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
ℙ	EXISTING PROPERTY LINE
	EXISTING WETLAND
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	100 YEAR FLOODPLAIN

EXISTING CONDITIONS PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JENNI ERIN WOODWORTH

DWG EX-12 OF 13

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

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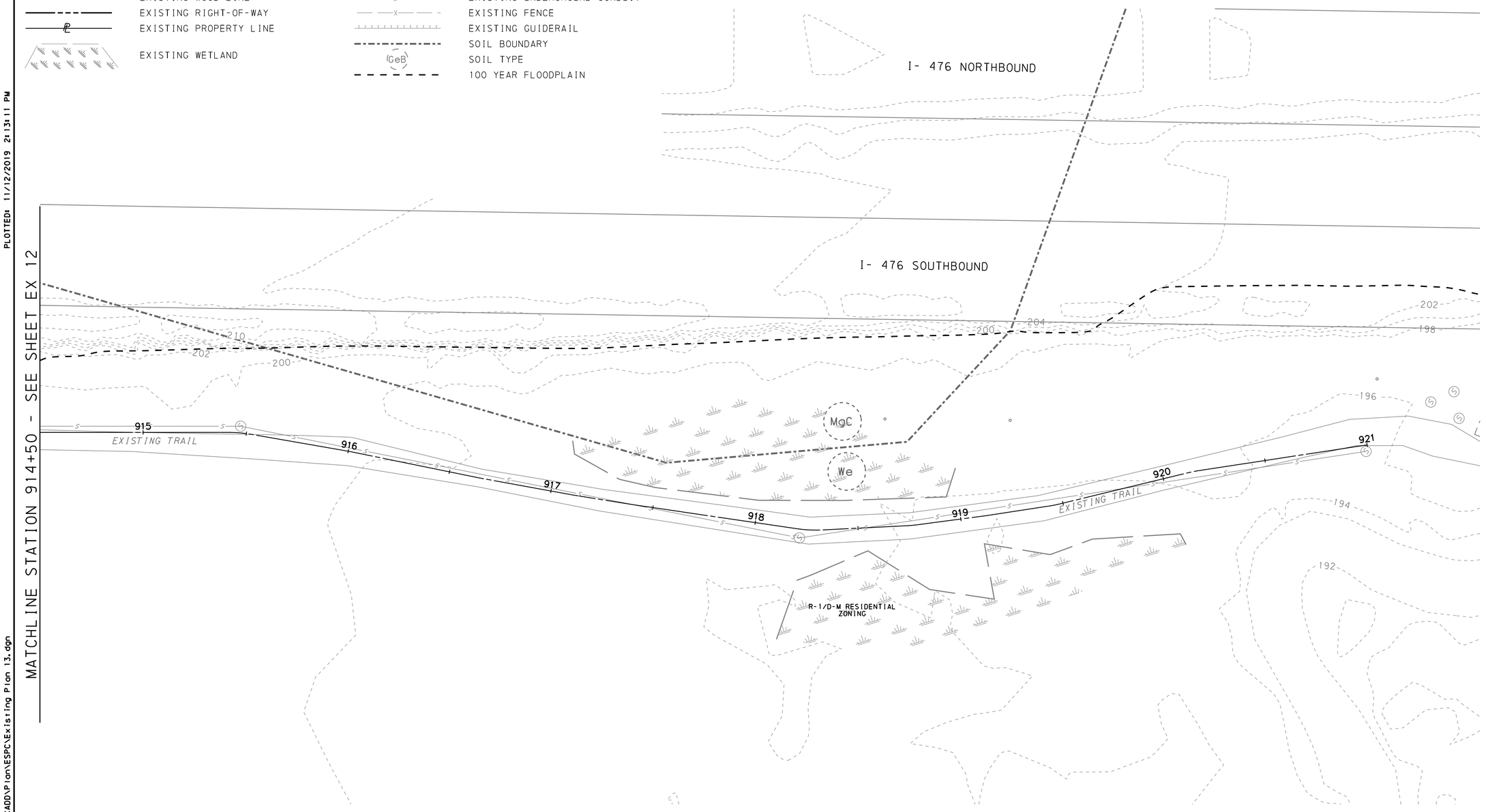
A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\ESPC\Existing Plan 12.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	15 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
	EXISTING STREAM BOUNDARY
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
℄	EXISTING PROPERTY LINE
	EXISTING WETLAND
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
X	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	100 YEAR FLOODPLAIN



EXISTING CONDITIONS PLAN

SCALE IN FEET: 1"=25'

DWG EX-13 OF 13

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

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A.D. MARBLE

FILE NAME: X:\Projects\P1585\CADD\Plan\ESPC\Existing Plan 13.dgn

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

Symbol	Description
---- 375 ----	EXISTING CONTOUR MAJOR
---- 374 ----	EXISTING CONTOUR MINOR
—— 375 ——	PROPOSED CONTOUR MAJOR
—— 374 ——	PROPOSED CONTOUR MINOR
—— LOD ——	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
(CFS12)	COMPOST FILTER SOCK
—— TPF ——	TREE PROTECTION FENCE
—x—	PROPOSED FENCE
I. P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
—— ℙ ——	EXISTING PROPERTY LINE
—— S ——	EXISTING SANITARY SEWER
—— T ——	EXISTING UNDERGROUND TELEPHONE
—— E ——	EXISTING ELECTRIC LINE
—— W ——	EXISTING WATER LINE
—— G ——	EXISTING GAS LINE
—— C ——	EXISTING UNDERGROUND CONDUIT
—x—	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
(GeB)	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
—— TPF ——	TREE PROTECTION FENCE

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-01 FOR TREE REMOVAL AND PLANTINGS.
3. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.

EROSION AND SEDIMENT CONTROL PLAN

SCALE IN FEET: 1"=25' (0 25 50)

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JENNI ERIN WOODWORTH

DESIGN BY: EBD | CHECKED BY: JEW

PLOTTED: 10/1/2020 12:41:04 PM

A.D. MARBLE

FILE NAME: \\adm-file01\cadd\Projects\P1585\CADD\Plan\ESPC\ESC Plan 01.dgn

11-12-2019

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375 (dashed)	EXISTING CONTOUR MAJOR
374 (dashed)	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
TPF	TREE PROTECTION FENCE
x	PROPOSED FENCE
I.P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
PL	EXISTING PROPERTY LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-02 FOR TREE REMOVAL AND PLANTINGS.
3. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.

EROSION AND SEDIMENT CONTROL PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JENNI ERIN WOODWORTH ENGINEER

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11-12-2019

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	18 OF 47
RADNOR TOWNSHIP				
REVISION NUMBER	REVISIONS		DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
TPF	TREE PROTECTION FENCE
X	PROPOSED FENCE
I.P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
P	EXISTING PROPERTY LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
X	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-03 FOR TREE REMOVAL AND PLANTINGS.
3. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.

STORMWATER MANAGEMENT FACILITY NO. 2,INFILTRATION BASIN. SEE DRAWING SWM-03. CONTRACTOR TO MARK OUT LIMIT OF INFILTRATION FACILITY AND AVOID COMPACTION DURING CONSTRUCTION.

MATCHLINE STATION 310+50 - SEE SHEET ESC 2

MATCHLINE STATION 318+00 - SEE SHEET ESC 4

SWALE 2
DA: 0.241 ACRES

15" RCP

CS 3-1

ES 3-1

RADNOR TOWNSHIP SCHOOL DISTRICT
PARCEL ID 36020123310

RADNOR HIGH SCHOOL GRAVEL ACCESS DRIVE

HUNT BROOKS TRIB

EXISTING CULVERT

PROPOSED RECREATIONAL TRAIL

LEGAL RIGHT OF WAY

LEGAL RIGHT OF WAY

E. LANCASTER AVE.
(S.R. 30) WESTBOUND

E. LANCASTER AVE.
(S.R. 30) EASTBOUND

I.P.

ROCK CONSTRUCTION ENTRANCE

WoA

GnB2

Md

GeB

EROSION AND SEDIMENT CONTROL PLAN

SCALE IN FEET: 1"=25'

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-03 OF 19

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

11-12-2019

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A.D. MARBLE

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LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
TPF	TREE PROTECTION FENCE
X	PROPOSED FENCE
I.P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
PL	EXISTING PROPERTY LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
X	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-04 FOR TREE REMOVAL AND PLANTINGS.
3. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.

EROSION AND SEDIMENT CONTROL PLAN

SCALE IN FEET: 1"=25' (0 25 50)

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JENNI ERIN WOODWORTH ENGINEER

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

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A.D. MARBLE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	20 OF 47

RADNOR TOWNSHIP

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

EXISTING CONTOUR MAJOR	EXISTING STREAM BOUNDARY
EXISTING CONTOUR MINOR	EXISTING WETLAND
PROPOSED CONTOUR MAJOR	EXISTING TREE
PROPOSED CONTOUR MINOR	UTILITY POLE, LIGHT POLE, SIGN
LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY	EXISTING WOOD LINE
COMPOST FILTER SOCK	EXISTING RIGHT-OF-WAY
TREE PROTECTION FENCE	EXISTING PROPERTY LINE
PROPOSED FENCE	EXISTING SANITARY SEWER
INLET PROTECTION	EXISTING UNDERGROUND TELEPHONE
PROPOSED TRAIL	EXISTING ELECTRIC LINE
ROCK CONSTRUCTION ENTRANCE	EXISTING WATER LINE
PROPOSED ROCK OUTLET PROTECTION	EXISTING GAS LINE
COMPOST FILTER SOCK CONCRETE WASHOUT	EXISTING UNDERGROUND CONDUIT
	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
	TREE PROTECTION FENCE

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-05 FOR TREE REMOVAL AND PLANTINGS.
3. THE ACCESS ROAD AND ROCK CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED BEFORE GRADING BEGINS FOR THE TRAIL SECTION ALONG KING OF PRUSSIA ROAD SO THAT THE SLOPE BETWEEN STATION 326 AND 330 ALONG LANCASTER AVENUE CAN BE CONSTRUCTED. THE TEMPORARY ACCESS ROAD ADJACENT TO THE SLOPE BETWEEN STATION 326 TO 330 AND THE INFILTRATION BERM SHALL BE REMOVED AFTER CONSTRUCTION HAS BEEN COMPLETED ON THESE ITEMS. INCREMENTAL REMOVAL OF THE REMAINING ACCESS ROAD WILL CONTINUE AS THE SLOPE ALONG KING OF PRUSSIA ROAD IS CONSTRUCTED. SOILS COMPACTED UNDER OR ADJACNET TO THE TEMPORARY ACCESS ROAD DURING CONSTRUCTION OR REMOVAL OF THE ACCESS ROAD SHALL BE RECONSTRUCTED TO PRE-CONSTRUCTION CONDITIONS.
4. NO DISTURBANCE, STORAGE OF EQUIPMENT OR MATERIALS IS ALOWED ON THE RADNOR ATHLETIC FIELD. STAY INSIDE THE LOD AND DO NOT MOVE EQUIPMENT (EVEN TEMPORARILY) OUT OF THE LOD IN THIS AREA.
5. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.

EROSION AND SEDIMENT CONTROL PLAN

SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER JENNI ERIN WOODWORTH

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-05 OF 19

11-12-2019

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	21 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
TPF	TREE PROTECTION FENCE
x	PROPOSED FENCE
I.P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT

	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
℄	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE

MATCHLINE STATION 504+00 - SEE SHEET ESC 5

MATCHLINE STATION 511+50 - SEE SHEET ESC 7

SEE SHEET 32 FOR TEMPOARARY ACCESS ROAD DETAIL.

RADNOR TOWNSHIP SCHOOL DISTRICT PARCEL ID 36020123310

STAGING AND STOCKPILE AREA

NOTE 3

BROWNS RUN

EXISTING CULVERT HEADWALL

ROCK CONSTRUCTION ENTRANCE

I.P.

LEGAL RIGHT OF WAY

PROPOSED RECREATIONAL TRAIL

KING OF PRUSSIA RD.

GnB2

Me

LOD

1030 1031 1032 1033 1034 1035 1036

504 505 506 507 508 509 510 511

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-06 FOR TREE REMOVAL AND PLANTINGS.
3. THE ACCESS ROAD AND ROCK CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED BEFORE GRADING BEGINS FOR THE TRAIL SECTION ALONG KING OF PRUSSIA ROAD SO THAT THE SLOPE BETWEEN STATION 326 AND 330 ALONG LANCASTER AVENUE CAN BE CONSTRUCTED . THE TEMPORARY ACCESS ROAD ADJACENT TO THE SLOPE BETWEEN STATION 326 TO 330 AND THE INFILTRATION BERM SHALL BE REMOVED AFTER CONSTRUCTION HAS BEEN COMPLETED ON THESE ITEMS. INCREMENTAL REMOVAL OF THE REMAINING ACCESS ROAD WILL CONTINUE AS THE SLOPE ALONG KING OF PRUSSIA ROAD IS CONSTRUCTED. SOILS COMPACTED UNDER OR ADJACNET TO THE TEMPORARY ACCESS ROAD DURING CONSTRUCTION OR REMOVAL OF THE ACCESS ROAD SHALL BE RECONSTRUCTED TO PRE-CONSTRUCTION CONDITIONS.
4. NO DISTURBANCE, STORAGE OF EQUIPMENT OR MATERIALS IS ALLOWED ON THE RADNOR ATHLETIC FIELD. STAY INSIDE THE LOD AND DO NOT MOVE EQUIPMENT (EVEN TEMPORARILY) OUT OF THE LOD IN THIS AREA.
5. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.

EROSION AND SEDIMENT CONTROL PLAN

0 25 50
SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
JENNI ERIN WOODWORTH
No. PE082352

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-06 OF 19

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NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-07 FOR TREE REMOVAL AND PLANTINGS.
3. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
TPF	TREE PROTECTION FENCE
X	PROPOSED FENCE
I.P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
PL	EXISTING PROPERTY LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
X	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	22 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

MATCHLINE STATION 511+50 - SEE SHEET ESC 6

MATCHLINE STATION 519+50 - SEE SHEET ESC 8

RAIDER RD.

KING OF PRUSSIA RD.

LEGAL RIGHT OF WAY

PROPOSED RECREATIONAL TRAIL

RADNOR TOWNSHIP SCHOOL DISTRICT
PARCEL ID 36020123310

Me

EROSION AND SEDIMENT CONTROL PLAN

SCALE IN FEET: 1"=25'

DWG ESC-07 OF 19

11-12-2019

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

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A.D. MARBLE

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	23 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
TPF	TREE PROTECTION FENCE
x	PROPOSED FENCE
I.P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
P	EXISTING RIGHT-OF-WAY
P	EXISTING PROPERTY LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE

MATCHLINE STATION 526+50 - SEE SHEET ESC 9

MATCHLINE STATION 519+50 - SEE SHEET ESC 7

TRUSTEE OF UNIVERSITY OF PENNSYLVANIA
PARCEL ID 36020115800

RADNOR TOWNSHIP SCHOOL DISTRICT
PARCEL ID 36020123310

PROPOSED RECREATIONAL TRAIL

REMOVE EXISTING SIDEWALK

EXISTING CULVERT HEADWALL

HARRIS RUN

KING OF PRUSSIA RD.

LEGAL RIGHT OF WAY

GnB2 Me Md

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-08 FOR TREE REMOVAL AND PLANTINGS.
3. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.

EROSION AND SEDIMENT CONTROL PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-08 OF 19

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
No. PE087332

11-12-2019

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	24 OF 47
RADNOR TOWNSHIP				

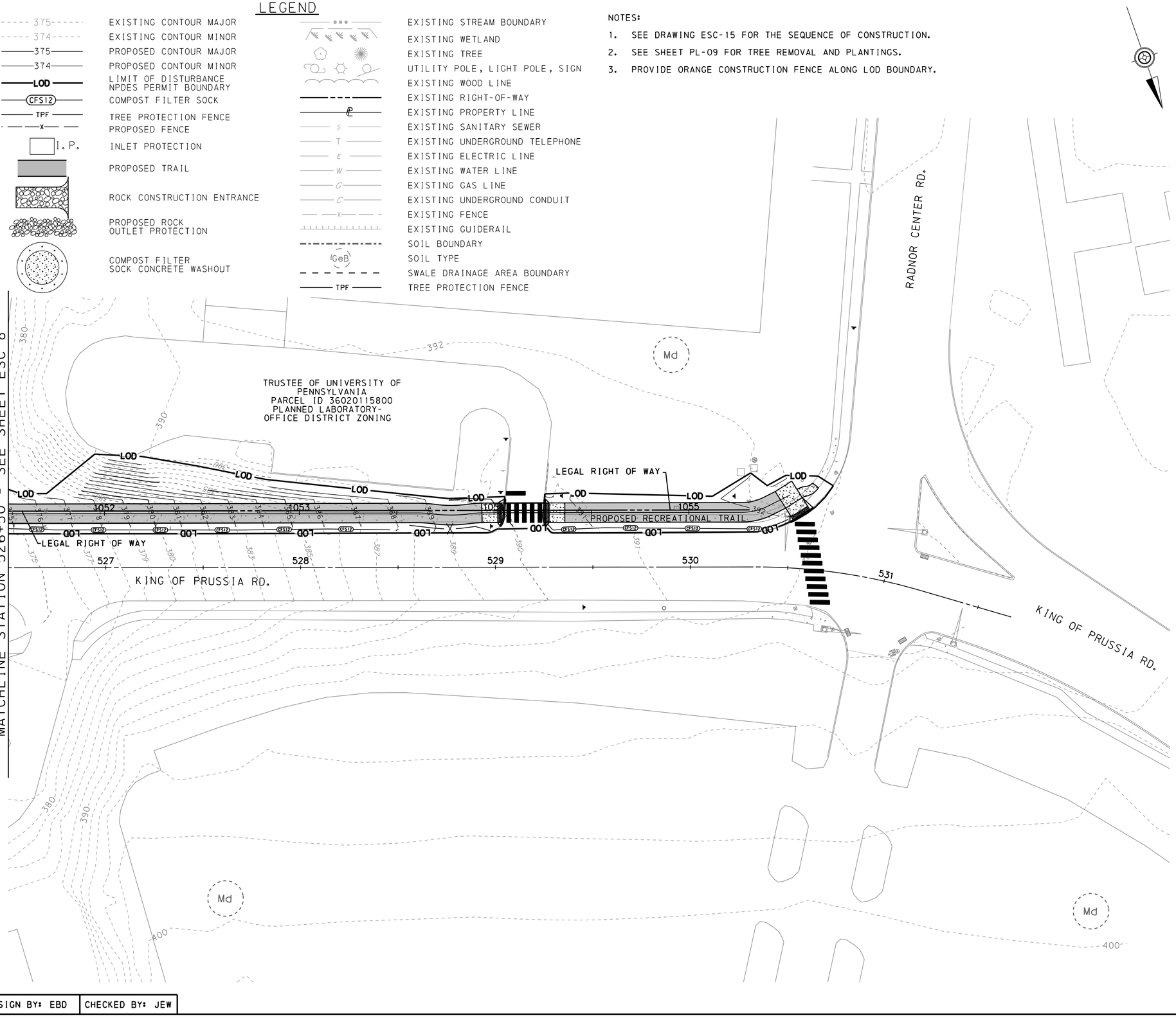
REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
TPF	TREE PROTECTION FENCE
X	PROPOSED FENCE
I.P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
℄	EXISTING RIGHT-OF-WAY
S	EXISTING PROPERTY LINE
T	EXISTING SANITARY SEWER
E	EXISTING UNDERGROUND TELEPHONE
W	EXISTING ELECTRIC LINE
G	EXISTING WATER LINE
C	EXISTING GAS LINE
X	EXISTING UNDERGROUND CONDUIT
	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-09 FOR TREE REMOVAL AND PLANTINGS.
3. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.



EROSION AND SEDIMENT CONTROL PLAN

0 25 50
SCALE IN FEET: 1"=25'

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-09 OF 19

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
No. PE082532

11-12-2019

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	25 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- 375 — EXISTING CONTOUR MAJOR
- 374 — EXISTING CONTOUR MINOR
- 375 — PROPOSED CONTOUR MAJOR
- 374 — PROPOSED CONTOUR MINOR
- LOD — LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
- CFS12 — COMPOST FILTER SOCK
- TPF — TREE PROTECTION FENCE
- X — PROPOSED FENCE
- I.P. — INLET PROTECTION
- PROPOSED TRAIL
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED ROCK OUTLET PROTECTION
- COMPOST FILTER SOCK CONCRETE WASHOUT
- EXISTING STREAM BOUNDARY
- EXISTING WETLAND
- EXISTING TREE
- UTILITY POLE, LIGHT POLE, SIGN
- EXISTING WOOD LINE
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- S — EXISTING SANITARY SEWER
- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- C — EXISTING UNDERGROUND CONDUIT
- X — EXISTING FENCE
- EXISTING GUIDERAIL
- SOIL BOUNDARY
- GeB — SOIL TYPE
- SWALE DRAINAGE AREA BOUNDARY
- TPF — TREE PROTECTION FENCE

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-10 FOR TREE REMOVAL AND PLANTINGS.
3. STORMWATER MANAGEMENT FACILITY NO. 5, INFILTRATION BASIN. SEE DRAWING SWM-10. CONTRACTOR TO MARK OUT LIMIT OF INFILTRATION FACILITY AND AVOID COMPACTION DURING CONSTRUCTION.
4. PROVIDE ORANGE CONSTRUCTION FENCE ALONG LOD BOUNDARY.

CONESTOGA ROAD
LENOIR AVE.
STABILIZE AT THE END OF THE WORK DAY
N/L ROBERT M. HALLIGAN DBV. 2499 PG 116 CLOSURE: 0.00 36-12-511
ROCK CONSTRUCTION ENTRANCE
N/L RADNOR TOWNSHIP DBV. 1517 PG 1594 CLOSURE 0.36' 36-12-514
AVOID TREE WITH FENSING AND COMPOST FILTER SOCK.
NOTE 3
SWALE 3
EXISTING RAIL TRAIL
FRIENDS OF RADNOR TRAIL PARK PARKING LOT
LEGAL RIGHT-OF-WAY
N/L ALBERT CONSTANTINE DBV 5711 PG 43 CLOSURE: 0.00 36-12-510
N/L 7 EAST STATE DBV 5000 PG 1032 CLOSURE: 0.00 36-12-504
N/L FRANCIS W. & KRISTINE HEERY DBV 5910 PG 404 CLOSURE: 0.00 36-12-509
N/L JONATHAN P. AND ELIZABETH MAXFIELD W YATES DB 5136 PG 0352 36-12-503
N/L EADEH FAMILY LTD PARTNERSHIP DB 1759 PG 2011 36-12-502
N/L CARLA B BATES DB 5722 PG 1237 36-12-501
GnB2
Md

EROSION AND SEDIMENT CONTROL PLAN

0 25 50
SCALE IN FEET: 1"=25'

DWG ESC-10 OF 19

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
PE082332

06-11-2020

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A.D. MARBLE
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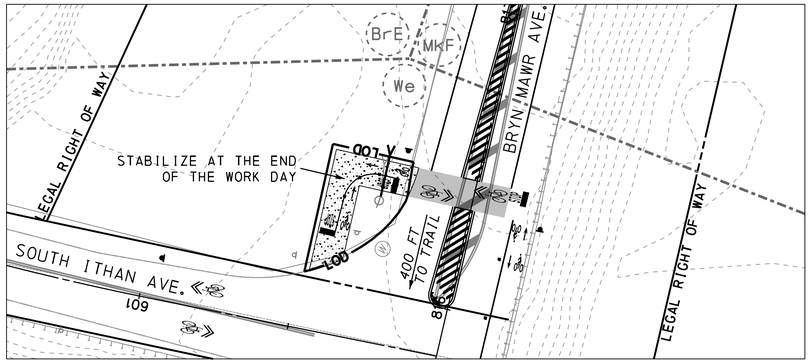
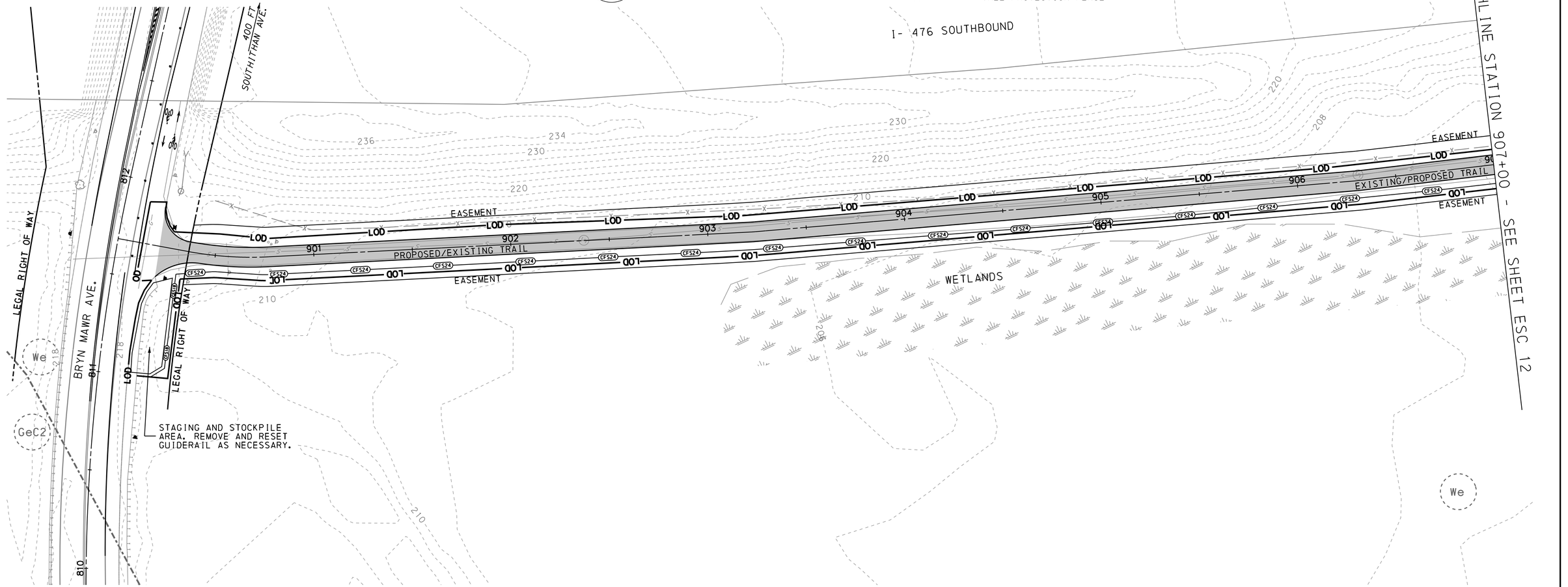
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	26 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY



LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
TPF	TREE PROTECTION FENCE
x	PROPOSED FENCE
I.P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
P	EXISTING PROPERTY LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE



NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-11 FOR TREE REMOVAL AND PLANTINGS.

EROSION AND SEDIMENT CONTROL PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-11 OF 19

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JENNI ERIN WOODWORTH — ENGINEER — 11-12-2019

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A.D. MARBLE

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REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
TPF	TREE PROTECTION FENCE
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I.P.	INLET PROTECTION
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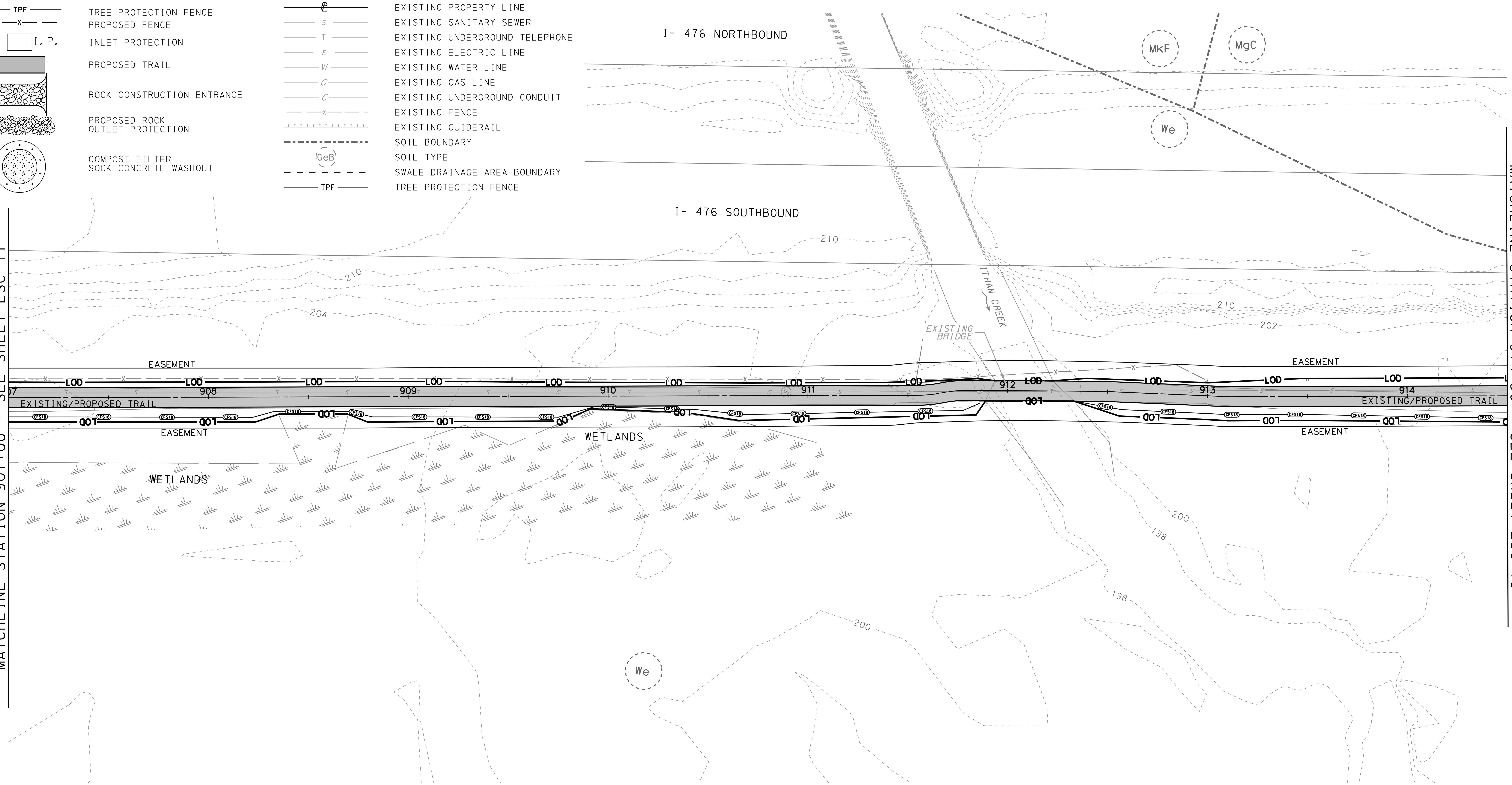
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
ℙ	EXISTING PROPERTY LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-12 FOR TREE REMOVAL AND PLANTINGS.



MATCHLINE STATION 907+00 - SEE SHEET ESC 11

MATCHLINE STATION 914+50 - SEE SHEET ESC 13

EROSION AND SEDIMENT CONTROL PLAN

0 25 50
SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JENNI ERIN WOODWORTH ENGINEER

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

PLOTTED: 10/1/2020 12:41:34 PM

A.D. MARBLE
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	28 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- 375 — EXISTING CONTOUR MAJOR
- 374 — EXISTING CONTOUR MINOR
- 375 — PROPOSED CONTOUR MAJOR
- 374 — PROPOSED CONTOUR MINOR
- LOD — LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
- CFS12 — COMPOST FILTER SOCK
- TPF — TREE PROTECTION FENCE
- x — PROPOSED FENCE
- I.P. — INLET PROTECTION
- PROPOSED TRAIL
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED ROCK OUTLET PROTECTION
- COMPOST FILTER SOCK CONCRETE WASHOUT
- EXISTING STREAM BOUNDARY
- EXISTING WETLAND
- EXISTING TREE
- UTILITY POLE, LIGHT POLE, SIGN
- S — EXISTING WOOD LINE
- EXISTING RIGHT-OF-WAY
- ℄ — EXISTING PROPERTY LINE
- S — EXISTING SANITARY SEWER
- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
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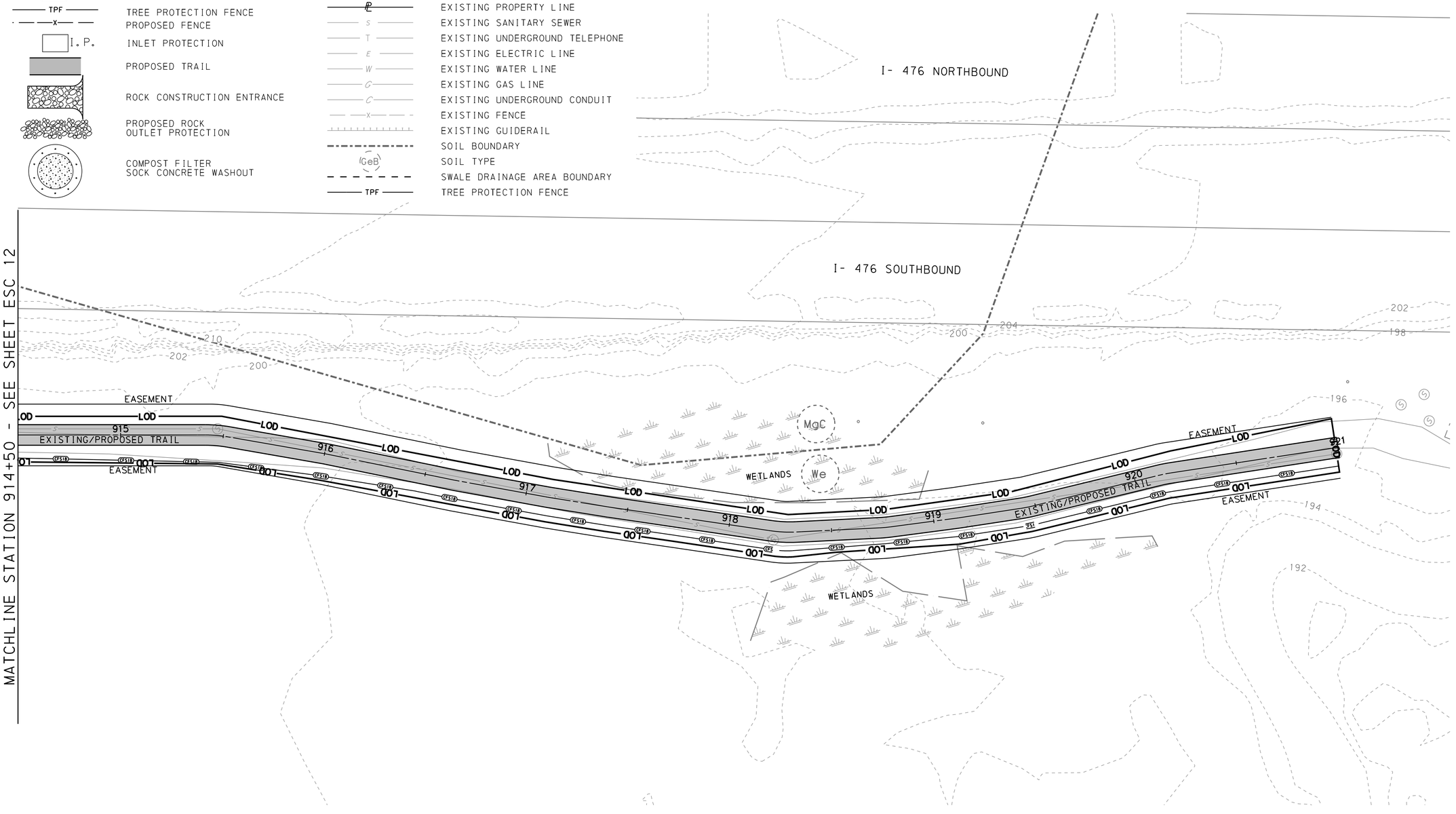
- EXISTING GUIDERAIL
- SOIL BOUNDARY
- GeB — SOIL TYPE
- SWALE DRAINAGE AREA BOUNDARY
- TPF — TREE PROTECTION FENCE

NOTES:

1. SEE DRAWING ESC-15 FOR THE SEQUENCE OF CONSTRUCTION.
2. SEE SHEET PL-13 FOR TREE REMOVAL AND PLANTINGS.



EROSION AND SEDIMENT CONTROL PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JENNI ERIN WOODWORTH — No. PE082332

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-13 OF 19

PLOTTED: 10/1/2020 12:41:37 PM

A.D. MARBLE

FILE NAME: \\Admfile01\cadd\Projects\P1585\CADD\Plan\ESPC\ESC Plan 13.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	29 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

PROJECT DESCRIPTION:

THIS PROJECT IS BEING PERFORMED FOR RADNOR TOWNSHIP AND INVOLVES EXPANDING ITS CURRENT TRAIL SYSTEM, REHABILITATING SECTIONS OF EXISTING TRAIL AND UPDATING PAVEMENT MARKINGS ON NUMEROUS STREETS. WORK IS BEING PERFORMED ALONG US 30, KING OF PRUSSIA ROAD, RADNOR CHESTER ROAD, SOUTH ITHAN AVENUE, SOUTH BRYN MAWR AVENUE, THE SECTION OF TRAIL SOUTH OF BRYN MAWR AVENUE, WEST WAYNE AVENUE, CONESTOGA ROAD AND A SECTION OF PROPERTY TO THE NORTH OF FRIENDS OF RADNOR TRAIL PARK. ALL WORK IS BEING DONE IN RADNOR TOWNSHIP. WORK DESCRIBED IN THIS EROSION AND SEDIMENT CONTROL PLAN DEALS SPECIFICALLY WITH AREAS THAT ARE BEING DISTURBED AND DOES NOT INCLUDE CHANGES TO ROADWAY SURFACES SUCH AS NEW PAVEMENT MARKINGS. NEW TRAIL IS BEING CONSTRUCTED AROUND RADNOR HIGH SCHOOL AND ACROSS FROM THE FRIENDS OF RADNOR TRAIL PARK. AN EXISTING TRAIL SECTION PARALLELING I-476 SOUTH OF BRYN MAWR AVENUE IS BEING RESURFACED FROM GRAVEL TO ASPHALT. THE FOLLOWING HAVE BEEN DEVELOPED TO PROVIDE EROSION AND SEDIMENT POLLUTION CONTROL FOR THESE AREAS.

E&S GENERAL NOTES:

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE DELAWARE COUNTY CONSERVATION DISTRICT) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DELAWARE COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE DELAWARE COUNTY CONSERVATION DISTRICT MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.

2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE DELAWARE COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.

3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE DELAWARE COUNTY CONSERVATION DISTRICT PRIOR TO IMPLEMENTATION.

5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.

6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.

7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.

9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE DELAWARE COUNTY CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENTS 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.

11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE DELAWARE COUNTY CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS USING PUMPED SEDIMENT FILTER BAGS.

E&S GENERAL NOTES (CONTINUED):

14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE EXCEPT THROUGH A CONSTRUCTION ENTRANCE.

15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

16. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY 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.

18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.

19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.

27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.

28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

29. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE DELAWARE COUNTY CONSERVATION DISTRICT OR THE DEPARTMENT.

30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE DELAWARE COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.

31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY, IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.

32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE DELAWARE COUNTY CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.

E&S GENERAL NOTES (CONT'D):

33. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO $10,000 PER DAY IN CIVIL PENALTIES, UP TO $10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO $25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

34. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.

35. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACK FILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.

36. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.

37. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

38. A SITE LOCATION MAP IS LOCATED ON SHEET 2.

39. THERMAL IMPACTS HAVE BEEN ADDRESSED THROUGH THE ADDITION OF INFILTRATION SWM FACILITIES WHICH WILL KEEP RUNOFF FROM DIRECTLY RUNNING INTO ADJACENT WATER BODIES.

40. SOIL COMPACTION WILL BE LIMITED BY LIMITING THE AREA CONSTRUCTION EQUIPMENT CAN BE USED. FOR EXAMPLE, THE BOTTOM AREA OF INFILTRATION FACILITIES WILL BE MARKED AS AREAS CONSTRUCTION AND COMPACTION EQUIPMENT ARE NOT ALLOWED.

41. EROSION AND SEDIMENT CONTROL PLAN MINIMIZES EXTENT AND DURATION OF EARTH DISTURBANCES.

42. EROSION AND SEDIMENT CONTROL PLAN MAXIMIZES PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION.

43. EROSION AND SEDIMENT CONTROL PLAN UTILIZES OTHER MEASURES OR CONTROLS THAT PREVENT OR MINIMIZE GENERATION OF INCREASED STORMWATER RUNOFF.

DESIGNATED CHAPTER 93 CLASSIFICATION:

NEAREST RECIEVING WATER: TRIBUTARIES TO DARBY CREEK
CH. 93 DESIGNATED USE: CWF, MF
WATERSHED: DARBY-CRUM CREEK WATERSHED

IN-STREAM RESTRICTIONS

NO IN-STREAM WORK SHALL TAKE PLACE BETWEEN OCTOBER 1 THROUGH DECEMBER 31

UTILITY NOTES

1. EXISTING UTILITIES ARE SHOWN ON THE PLANS IN ACCORDANCE WITH THE BEST INFORMATION AVAILABLE AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CORRECTNESS AND COMPLETENESS OF THE INFORMATION IS NOT GUARANTEED.

2. THE CONTRACTOR SHALL VERIFY THE INFORMATION AND SHALL TAKE ALL PRECAUTIONS TO FULLY PROTECT THE UTILITY AND SERVICE.

3. AT LEAST THREE (3) WORKING DAYS PRIOR TO ANY EXCAVATION, POST DRIVING OR DEMOLITION WORK IN THE VICINITY OF UNDERGROUND UTILITIES, THE CONTRACTOR MUST CONTACT THE PA "ONE CALL SYSTEM" AND COMPLY WITH PROVISIONS OF ACT 287 OF 1974 AND SUBSEQUENT AMENDMENTS (ONE CALL NUMBER 1-800-242-1776).

4. IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY ALL OVERHEAD LINES AND NOTIFY THE UTILITY COMPANY AND COMPLY WITH THE COMPANY SAFETY CLEARANCE REQUIREMENTS WHEN WORKING IN THE AREA OF THEIR FACILITIES.

CALL BEFORE YOU DIG!

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

PA1 Call
SYSTEM INC. POCS SERIAL NUMBERS
20181553159, 20181553242, 20181553508 & 20181553541
RADNOR TOWNSHIP
1-800-242-1776

STORMWATER MANAGEMENT GENERAL NOTES

THE INTEGRITY OF STREAM CHANNELS IS PRESERVED AND THE PHYSICAL, BIOLOGICAL, AND CHEMICAL QUALITIES OF RECEIVING STREAMS ARE MAINTAINED BY PRE PREVENTING AN INCREASE IN THE RATE OR VOLUME OF STORMWATER RUNOFF.

IMPERVIOUS AREAS ARE MINIMIZED BY SITING THE TRAIL IN LOCATIONS WHERE AN EXISTING SIDEWALK ALREADY EXISTS.

LAND CLEARING, GRADING, AND SOIL COMPACTION ARE MINIMIZED BY MINIMIZING THE LIMIT OF DISTURBANCE. IN SOME LOCATIONS, THE EMBANKMENTS OF THE TRAIL ALSO SERVE AS EMBANKMENTS OF THE STORMWATER BMPS, REDUCING THE OVERALL PROJECT FOOTPRINT.

OTHER STRUCTURAL AND NONSTRUCTURAL BMPS ARE UTILIZED THAT PREVENT OR MINIMIZE ANY CHANGES IN STORMWATER RUNOFF.

LIMIT OF DISTURBANCE	= 341,255 SF
	= 7.83 ACRES
NPDES PERMIT AREA	= 342,153 SF
	= 7.85 ACRES

OWNER/APPLICANT:
RADNOR TOWNSHIP
301 IVEN AVENUE
WAYNE, PA 19087
CONTACT: STEPHEN NORCINI, PE
TOWNSHIP ENGINEER
PH: 610-688-5600

EROSION AND SEDIMENT POLLUTION CONTROL GENERAL NOTES

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
AE078352

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-14 OF 19

PLOTTED: 10/1/2020 12:41:39 PM
A.D. MARBLE
FILE NAME: \\Adm-file01\cadd\Projects\P1585\CADD\Plan\ESPC\ESPC General Notes-1.dgn

SEEDING AREA SCHEDULE

USE EACH SEED MIXTURE IN THE AREAS DESIGNATED AS FOLLOWS OR AS DIRECTED	
FORMULA B MIXTURE	FINAL CONDITION - LAWNS
FORMULA E MIXTURE	TEMPORARY SEEDING
ERNMX-140	SLOPES 4:1 AND GREATER
ERNMX-126	BASIN FLOOR

SEEDING MIXTURES

FORMULA AND SPECIES	% BY WEIGHT
FORMULA B MIX: LAWN AREA MIX	
PERRENIAL RYEGRASS MIXTURE (LOLIUM PERENNE)	20.0
CREEPING RED FESCUE OR CHEWINGS FESCUE (FESTUCA RUBRA OR SSP COMMUTATE)	30.0
KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS)	50.0
FORMULA E MIX: TEMPORARY SEED MIX	
ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	100.0
ERNMX-140: SLOPE MIX	
LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)	39.8
VIRGINIA WILDRYE (ELYMUS VIRGINICUS)	19.0
ROUND SEED PANICGRASS (PANICUM SPHAERONCARPON)	17.7
PARTRIDGE PEA (CHAMAECRISTA FASCICULATA)	4.0
PURPLE CONEFLOWER (ECHINACEA PURPUREA)	3.5
BLACKEYED SUSAN (RUDBECKIA HIRTA)	3.0
OXEYE SUNFLOWER (HELIOPSIS HELIANTHOIDES)	2.0
TALL WHITE BEARDTONGUE (PENSTEMON DIGITALIS)	2.0
BOTTLEBRUSH GRASS (ELYMUS HYSTRIX)	1.0
MARSH BLAZING STAR (LIATRIS SPICATA)	1.0
AUTUMN BENTGRASS (AGROSTIS PERENNANS)	0.5
BUTTERFLY MILKWEED (ASCLEPIAS TUBEROSA)	0.5
BIGLEAF ASTER (ASTER MACROPHYLLUS)	0.5
ZIGZAG ASTER (ASTER PRENANTHOIDES)	0.5
BLUE FALSE INDIGO (BAPTISIA AUSTRALIS)	0.5
WHITE AVENS (GEUM CANADENSE)	0.5
NARROWLEAF MOUNTAINMINT (PYCNANTHEMUM TENUIFOLIUM)	0.5
WHITE GOLDENROD (SOLIDAGO BICOLOR)	0.5
OHIO SPIDERWORT (TRADESCANTIA OHIENSIS)	0.5
GOLDEN ALEXANDERS (ZIZIA AUREA)	0.5
THIMBLEWEED (ANEMONE VIRGINIANA)	0.4
SMOOTH BLUE ASTER (ASTER LAEVIS)	0.4
WILD BERGAMOT (MONARDA FISTULOSA)	0.4
COMMON MILKWEED (ASCLEPIAS SYRIACA)	0.3
EARLY GOLDENROD (SOLIDAGO JUNCEA)	0.2
YELLOW FALSE INDIGO (BAPTISIA TINCTORIA)	0.1
HAIRY BEARDTONGUE (PENSTEMON HIRSUTUS)	0.1
CULVER'S ROOT (VERONICASTRUM VIRGINICUM)	0.1
ERNMX-126: BASIN FLOOR MIX	
ALKALIGRASS, 'FULTS' (PUCCINELLIA DISTANS)	20.0
DEERTONGUE, 'TIOGA' (PANICUM CLANDESTINUM)	19.0
CREEPING BENTGRASS (AGROSTIS STOLONIFERA)	18.0
VIRGINIA WILDRYE (ELYMUS VIRGINICUS)	18.0
FOWL BLUEGRASS (POA PALUSTRIS)	15.0
FOX SEDGE(CAREX VULPINOIDEA)	5.0
SOFT RUSH (JUNCUS EFFUSUS)	3.0
BLUNT BROOM SEDGE (CAREX SCOPARIA)	2.0

SEED AND FERTILIZER APPLICATION RATES

AGRICULTURAL LIMESTONE	2 TON/AC
FERTILIZER (10-20-20)	700 LB/AC
FORMULA B MIXTURE	42 LB/1000 SY
FORMULA E MIXTURE	10 LB/1000 SY
ERNMX-140	20 LB/AC
ERNMX-126	40 LB/AC
STRAW MULCH	3 TON/AC

SEQUENCE OF CONSTRUCTION

GENERAL NOTES:

1. PROCEED WITH ALL EARTH DISTURBANCE ACTIVITIES IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. COMPLETE IN COMPLIANCE WITH CHAPTER 102 REGULATIONS. LIMIT CLEARING, GRUBBING, AND TOPSOIL STRIPPING TO AREAS DESCRIBED. MANY TREES IN THE WORK AREA ARE NOT BEING REMOVED, ESPECIALLY OUTSIDE THE GRADING LIMITS BUT INSIDE THE AREA WHERE LINEAR EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED. CLEARING IN THESE AREAS IS TO BE LIMITED TO ONLY THE AREA REQUIRED TO INSTALL THESE PRACTICES, GENERALLY COMPOST FILTER SOCK. ROOT PRUNING WILL BE REQUIRED ON THE EDGES OF TRENCHING AND CUT SLOPES TO PROTECT THE TREES THAT ARE REMAINING.
2. AT LEAST 10 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, A REPRESENTATIVE FROM THE DELAWARE COUNTY CONSERVATION DISTRICT, AND A REPRESENTATIVE FROM THE PA DEP SOUTHEAST REGIONAL OFFICE TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INC. AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. IMMEDIATELY IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND SEDIMENT POLLUTION UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, AND NOTIFY THE DELAWARE COUNTY CONSERVATION DISTRICT AND/OR PA DEP.
5. IMMEDIATELY SEED, MULCH, OR OTHERWISE PROTECT THE SITE FROM ACCELERATED EROSION AND SEDIMENTATION UPON TEMPORARY CESSATION OF ANY EARTH DISTURBANCE OR ANY STAGE OR PHASE OF ANY ACTIVITIES WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES EXCEEDS 4 DAYS PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.
6. THE SEQUENCE OF CONSTRUCTION HAS BEEN BROKEN DOWN BY PROJECT AREA. THE FIRST AREA IS THE WORK ADJACENT TO RADNOR HIGH SCHOOL (ESC SHEETS 1-9). THE SECOND IS THE WEST WAYNE PRESERVE WHICH IS ADJACENT TO THE FRIENDS OF RADNOR TRAIL PARK (ESC SHEET 10). THE FINAL AREA IS THE WORK AREA PARALLEL TO I-476 (SHEETS 11-13).
7. DETAILS FOR CONSTRUCTING AND MAINTAINING EROSION AND SEDIMENT CONTROL BMP'S ARE LOCATED ON SHEETS ESC 14-20 OF THE EROSION AND SEDIMENT CONTROL PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.

RADNOR HIGH SCHOOL AND RADNOR CHESTER ROAD

1. CONDUCT ON-SITE PRE-CONSTRUCTION MEETING.
2. FIELD-MARK LIMITS OF DISTURBANCE. INTALL CONSTRUCTION FENCE ALONG LOD.
3. INSTALL ROCK CONSTRUCTION ENTRANCES FOLLOWED BY COMPOST FILTER SOCK AND INLET PROTECTION AS SHOWN ON THE PLANS. EROSION AND SEDIMENT CONTROL PRACTICES DO NOT NEED TO BE INSTALLED FOR THE ENTIRE PROJECT AREA AND MAY BE DONE INCREMENTALLY WITH THE APPROVAL OF THE CONSERVATION DISTRICT AS LONG AS ALL DISTURBED AREAS ARE PROTECTED WITH CONTROL MEASURES AS SHOWN ON THE PLANS.
4. PERFORM TREE CLEARING. TREE CLEARING SHOULD NOT INCLUDE GRUBBING; OR ANY EARTH DISTURBANCE.
5. CONSTRUCTION OF THE TRAIL SHALL BE DONE IN SEGMENTS WHICH LIMIT THE EXPOSURE OF SOIL TO THE MAXIMUM EXTENT POSSIBLE. THESE SEGMENTS CAN BE CONSTRUCTED IN ANY ORDER HOWEVER ONLY ONE SECTION SHALL HAVE DISTURBED SOIL AT THE SAME TIME. (1) LANCASTER AVE: RADNOR CHESTER ROAD TO CONSTRUCTION ENTRANCE (2) LANCASTER AVE: CONSTRUCTION ENTRANCE TO KING OF PRUSSIA ROAD (3) KING OF PRUSSIA ROAD: LANCASTER AVE TO HARDINGS RUN CROSSING (4) KING OF PRUSSIA ROAD: HARDINGS RUN CROSSING TO RADNOR CHESTER ROAD.
6. PERFORM CLEARING AND GRUBBING AND ROUGH GRADING. THIS SHOULD NOT INCLUDE AREAS OUTSIDE OF THE GRADING LIMITS. ROOT PRUNING SHALL BE PERFORMED ALONG THE EDGES OF ALL TRENCHING AND CUT AREAS TO PROTECT THE EXISTING TREES INSIDE AND OUTSIDE THE LOD THAT ARE TO REMAIN. EXCESS SOIL THAT CANNOT BE STORED ON SITE IS TO BE REMOVED. RUNOFF FROM DISTURBED AREAS SHALL BE TREATED WITH COMPOST FILTER SOCK.
7. EXCAVATE SOIL FOR TRAIL INSTALLATION; BACKFILL WITH STONE SUBBASE; COMPACT AND STABILIZE. THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME SHOULD NOT BE GREATER THAN THE TOTAL LENGTH OF TRAIL THAT CAN BE INSTALLED AND STABILIZED IN ONE WORKING DAY.
8. PAVE THE TRAIL AS SHOWN ON THE PAVING PLANS AND COMPLETE FINE GRADING.
9. CONSTRUCT DRAINAGE SWALES. GROUND DISTURBANCE SHALL BE LIMITED TO 2 DAYS FOR ANY SWALE.
10. CONSTRUCT INFILTRATION TRENCH, BASINS, AND BERM AS SHOWN ON SWM-1 THROUGH SWM-7. BE SURE NOT TO COMPACT THE AREA ALONG THE BOTTOM OF THE INFILTRATION FACILITIES. GROUND DISTURBANCE SHALL BE LIMITED TO 2 DAYS FOR ANY FACILITY.
11. ESTABLISH PERMANENT SEEDING IN ALL EARTH DISTURBED AREAS AND REMOVE ALL TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL DEVICES WHEN A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED THROUGHOUT. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
12. IF ANY DISTURBED AREAS CANNOT BE PERMANENTLY STABILIZED IMMEDIATELY OR IF GRADING OPERATION ARE INTERRUPTED FOR MORE THAN 4 DAYS, INTERIM STABILIZATION MEASURES WILL BE IMPLEMENTED. INTERIM MEASURES CONSIST OF SEEDING WITH FORMULA E, ANNUAL RYE GRASS, AND MULCHING WITH HAY. ALTERNATIVE INTERIM MEASURES MAY BE USED ONLY IF APPROVED BY THE ENGINEER.

SEQUENCE OF CONSTRUCTION (CONTINUED)

WEST WAYNE PRESERVE

1. CONDUCT ON-SITE PRE-CONSTRUCTION MEETING.
2. FIELD-MARK LIMITS OF DISTURBANCE. INSTALL CONSTRUCTION FENCE ALONG LOD THE AND WETLAND.
3. INSTALL ROCK CONSTRUCTION ENTRANCE FOLLOWED BY COMPOST FILTER SOCK AND INLET PROTECTION.
4. PERFORM TREE CLEARING. TREE CLEARING SHOULD NOT INCLUDE GRUBBING; OR ANY EARTH DISTURBANCE.
5. PERFORM CLEARING AND GRUBBING AND ROUGH GRADING. THIS SHOULD NOT INCLUDE AREAS OUTSIDE OF THE GRADING LIMITS. ROOT PRUNING SHALL BE PERFORMED ALONG THE EDGES OF ALL TRENCHING AND CUT AREAS TO PROTECT THE EXISTING TREES INSIDE AND OUTSIDE THE LOD THAT ARE TO REMAIN. EXCESS SOIL THAT CANNOT BE STORED ON SITE IS TO BE REMOVED. RUNOFF FROM DISTURBED AREAS SHALL BE TREATED WITH COMPOST FILTER SOCK.
6. CONSTRUCT DRAINAGE SWALE. GROUND DISTURBANCE SHALL BE LIMITED TO 2 DAYS FOR ANY SWALE.
7. CONSTRUCT INFILTRATION BASIN BERM, CONTROL STRUCTURE, EMERGENCY SPILLWAY, THE BASIN CONTROL STRUCTURE, END WALL STORM DRAIN PIPE, AND OUTFALL PROTECTION. BE SURE NOT TO COMPACT THE AREA ALONG THE FILTRATION BASIN BOTTOM OR USE CONSTRUCTION EQUIPMENT ALONG THE BOTTOM OF THE BASIN. FINISH ANY REMAINING SITE GRADING. GROUND DISTURBANCE SHALL BE LIMITED TO 2 DAYS.
8. ESTABLISH PERMANENT SEEDING IN ALL EARTH DISTURBED AREAS AND REMOVE ALL TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL DEVICES WHEN A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED THROUGHOUT. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
9. IF ANY DISTURBED AREAS CANNOT BE PERMANENTLY STABILIZED IMMEDIATELY OR IF GRADING OPERATION ARE INTERRUPTED FOR MORE THAN 4 DAYS, INTERIM STABILIZATION MEASURES WILL BE IMPLEMENTED. INTERIM MEASURES CONSIST OF SEEDING WITH FORMULA E, ANNUAL RYE GRASS, AND MULCHING WITH HAY. ALTERNATIVE INTERIM MEASURES MAY BE USED ONLY IF APPROVED BY THE ENGINEER.

I-476 AND BRYN MAWR AVENUE

1. CONDUCT ON-SITE PRE-CONSTRUCTION MEETING.
2. FIELD-MARK LIMITS OF DISTURBANCE.
3. INSTALL COMPOST FILTER SOCK.
4. PERFORM TREE CLEARING. TREE CLEARING SHOULD NOT INCLUDE GRUBBING; OR ANY EARTH DISTURBANCE.
6. PERFORM CLEARING AND GRUBBING AND ROUGH GRADING. THIS SHOULD NOT INCLUDE AREAS OUTSIDE OF THE GRADING LIMITS. ROOT PRUNING SHALL BE PERFORMED ALONG THE EDGES OF ALL TRENCHING AND CUT AREAS TO PROTECT THE EXISTING TREES INSIDE AND OUTSIDE THE LOD THAT ARE TO REMAIN. EXCESS SOIL THAT CANNOT BE STORED ON SITE IS TO BE REMOVED. RUNOFF FROM DISTURBED AREAS SHALL BE TREATED WITH COMPOST FILTER SOCK.
7. EXCAVATE SOIL FOR TRAIL INSTALLATION; BACKFILL WITH STONE SUBBASE; COMPACT AND STABILIZE. THE TRAIL SHALL NOT BE EXCAVATED FOR A PERIOD LONGER THAN 2 DAYS.
8. PAVE THE TRAIL AS SHOWN ON THE PAVING PLANS AND COMPLETE FINE GRADING.
9. ESTABLISH PERMANENT SEEDING IN ALL EARTH DISTURBED AREAS AND REMOVE ALL TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL DEVICES WHEN A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED THROUGHOUT. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.

EROSION AND SEDIMENT POLLUTION CONTROL GENERAL NOTES

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JENNI ERIN WOODWORTH ENGINEER

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

A.D. MARBLE
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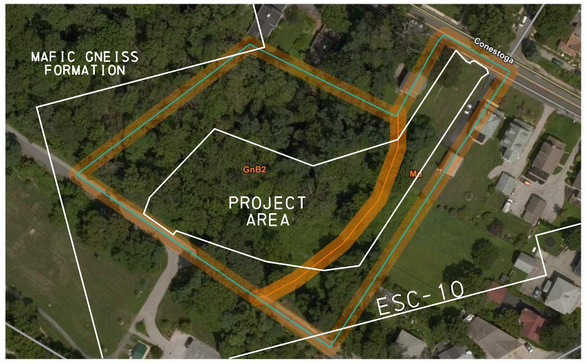
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	31 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

SOIL MAP-1

0 500 1000
SCALE IN FEET: 1"=500'



SOIL MAP-2

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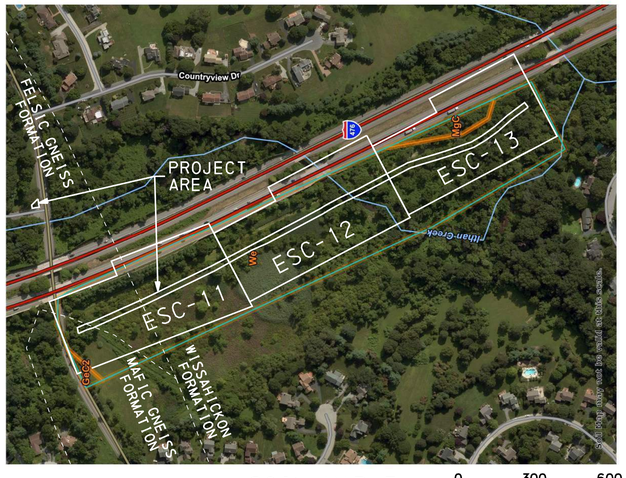
SCALE IN FEET: 1"=100'



SOIL MAP-3

0 300 600
SCALE IN FEET: 1"=300'

SOIL NAMES, LABELS AND LIMITATIONS

MAPPING UNIT	SOIL NAME	HYDRIC SOIL	SOIL LIMITATIONS	RECOMMENDED RESOLUTIONS TO LIMITATIONS
GeB	GLENELG CHANNERY LOAM, 3 TO 8 PERCENT SLOPES	NO	CUTBANKS CAVE, CORROSIVE TO CONCRETE, EASILY ERODIBLE, HIGH SATURATION ZONE, LOW STRENGTH/LANDSLIDE PRONE, LOW PERCOLATION RATE, PIPING, POOR TOPSOIL SOURSE, FROST ACTION, WETNESS	CUTBANKS CAVE LIMITED APPLICABLE FOR THIS PROJECT. STEEP SLOPES, >3:1 HAVE BEEN AVOIDED WHERE POSSIBLE. STEEL SLOPES TO BE PROVIDED WITH EROSION CONTROL MATTING. STEEL/CONCRETE CORROSION NOT APPLICABLE FOR THIS PROJECT. EASILY ERODIBLE. EROSION AND SEDIMENT CONTROLS BMP INSPECTION, MAINTENANCE AND REPAIR SCHEDULE DEVELOPED TO DEAL WITH AREAS OF INCREASED EROSION. FLOODING PROPER PUMPING PRACTICES FROM EXCAVATIONS AS NEEDED. HIGH SATURATED ZONE PROPER PUMPING PRACTICES FROM EXCAVATIONS AS NEEDED. LOW STRENGTH REMOVE LOW STRENGTH SOIL AND REPLACE IT WITH A MORE SUITABLE MATERIAL DEPENDING ON THE APPLICATION. LOW PERCOLATION RATE NOT APPLICABLE FOR THIS PROJECT. SOIL INFILTRATION TESTING PERFORMED AS NECASSARY. PIPING NOT APPLICABLE FOR THIS PROJECT. POOR TOPSOIL SOURCE TOPOSOIL WILL BE BROUGHT FROM OFF SITE. FROST ACTION REMOVING THE FROST-SUSCEPTIBLE SOIL AND REPLACING IT WITH A MORE SUITABLE MATERIAL AS NECASSARY. PERFORM BULK OF CONSTRUCTION ACTIVITIES DURING SEASON WHEN FROST ACTION DOESN'T OCCUR. WETNESS PROPER PUMPING PRACTICES FROM EXCAVATIONS AS NEEDED. DROUGHTY NOT APPLICABLE FOR THIS PROJECT.
GeC2	GLENELG CHANNERY SILT LOAM, 9 TO 15 PERCENT SLOPES, MODERATELY ERODED	NO		
GnB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	NO	CUTBANKS CAVE, CORROSIVE TO CONCRETE/STEEL, HIGH SATURATION ZONE, LOW STRENGTH/LANDSLIDE PRONE, LOW PERCOLATION RATE, PIPING, POOR TOPSOIL SOURSE, FROST ACTION, WETNESS	
NsD	NESHAMINY VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES	NO	CUTBANKS CAVE, CORROSIVE TO CONCRETE/STEEL, HIGH SATURATION ZONE, LOW STRENGTH/LANDSLIDE PRONE, LOW PERCOLATION RATE, PIPING, POOR TOPSOIL SOURSE, FROST ACTION	
We	WEHADKEE SILT LOAM	NO	CUTBANKS CAVE, CORROSIVE TO CONCRETE/STEEL, FLOODING, HIGH SATURATION ZONE, LOW STRENGTH/LANDSLIDE PRONE, LOW PERCOLATION RATE, PIPING, FROST ACTION, WETNESS	
WoA	WORSHAM SILT LOAM, 0 TO 3 PERCENT SLOPES	YES	CUTBANKS CAVE, CORROSIVE TO CONCRETE/STEEL, EASILY ERODIBLE, HIGH SATURATION ZONE, LOW STRENGTH/LANDSLIDE PRONE, LOW PERCOLATION RATE, PIPING, POOR TOPSOIL SOURCE FROST ACTION, SHRINK-SWELL	
Md	MADE LAND, GABBRO AND DIABASE MATERIALS	NO	CORROSIVE TO CONCRETE, PIPING, POOR TOPSOIL SOURCE	
Me	MADE LAND, SCHIST AND GNEISS MATERIALS	NO	CORROSIVE TO CONCRETE, EASILY ERODIBLE, LOW STRENGTH/LANDSLIDE PRONE, PIPING, FROST ACTION	

GEOLOGIC INFORMATION

FORMATION NAME:	WISSAHICKON FORMATION	FELSIC GNEISS	MAFIC GNEISS
FORMATION AGE:	LOWER PALEOZIOC	PRECAMBRIAN	PRECAMBRIAN
DOMINANT LITHOLOGY:	OLIGOCLASE-MICA SCHIST	FELSIC GNEISS	MAFIC GNEISS
SECONDARY LITHOLOGY:	HORNBLENDE GNEISS	N/A	N/A
OTHER LITHOLOGY:	GNEISS	N/A	N/A

THE GEOLOGIC INFORMATION PRESENTED BELOW IS IN ACCORDANCE WITH THE PENNSYLVANIA GEOLOGICAL SURVEY. DESCRIPTIVE INFORMATION DERIVED FROM THE PENNSYLVANIA DEPARTMENT OF NATURAL RESOURCES MAP APPLICATION (HTTP://WWW.GIS.DCNR.STATE.PA.US/GEOLOGY)

EROSION AND SEDIMENT POLLUTION CONTROL SOIL INFORMATION

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
No.PE082322

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-16 OF 19

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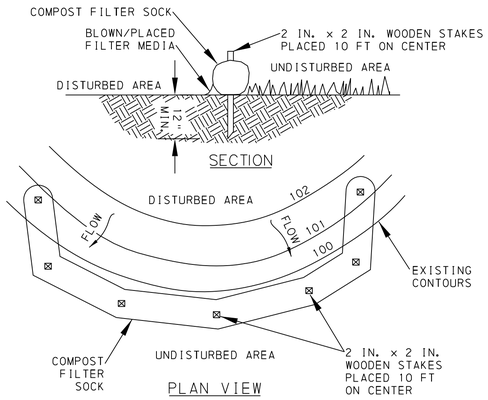
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	32 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY



PLAN VIEW

NOTES:
SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE 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 SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

TABLE 4.1
COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 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 STRENGTH (ASTM G-155)	23% AT 1000 HR.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS
TWO-PLY SYSTEMS					
INNER CONTAINMENT NETTING	HDPE BIAXIAL NET				
	CONTINUOUSLY WOUND				
	FUSION-WELDED JUNCTURES				
	3/4" X 3/4" MAX. APERTURE SIZE				
OUTER FILTRATION MESH	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)				
	3/16" MAX. APERTURE SIZE				
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.					

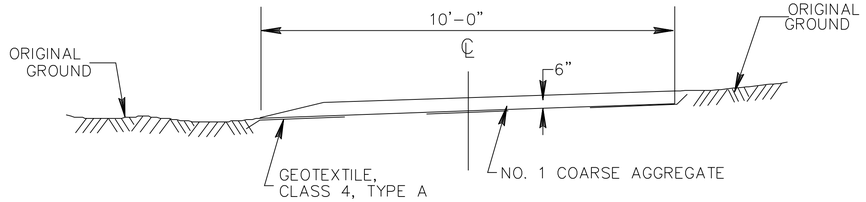
TABLE 4.2
COMPOST STANDARDS

ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5-8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM

ITEM NUMBER
FOR 12": 0867-0012
FOR 18": 0867-0018
FOR 24": 0867-0022

COMPOST FILTER SOCK

N.T.S.



SECTION

NOTES:

ACCESS WITHIN THE SITE SHALL BE LIMITED TO THE TEMPORARY ACCESS ROAD.

REMOVE ONLY THE VEGETATION NECESSARY TO CONSTRUCT THE ACCESS ROAD. CUT VEGETATION FLUSH AT THE GROUND LEVEL AND DO NOT GRUB.

FILL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF ACCESS ROAD GRADING.

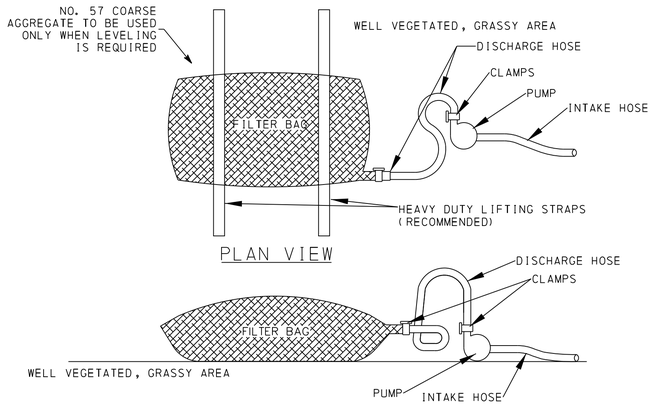
A TOP DRESSING COMPOSED OF HARD, DURABLE STONE SHALL BE PROVIDED FOR SOILS HAVING LOW STRENGTH.

ACCESS ROAD SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED ROADWAYS, DITCHES, OR CROSS DRAINS SHALL BE REPAIRED IMMEDIATELY.

WHEN REMOVING THE ACCESS ROAD ALSO REMOVE THE TOP 12 INCHES OF SOIL. REPLACE WITH TOPSOIL AND SEED ACCORDING TO THE LANDSCAPING PLANS.

TEMPORARY ACCESS ROAD

N.T.S.



PLAN VIEW

ELEVATION VIEW

NOTES:

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

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

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.

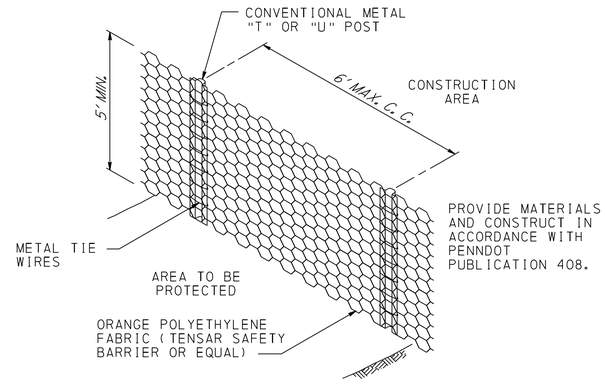
THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

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

ITEM NUMBER: 0855-0003

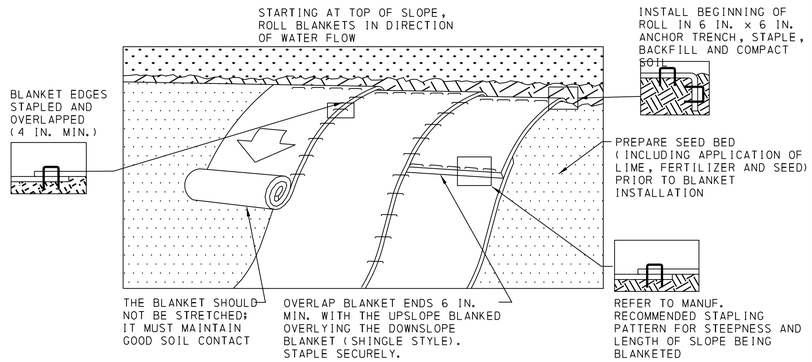
PUMPED WATER FILTER BAG

N.T.S.



TEMPORARY PROTECTIVE FENCE

ITEM NUMBER: 0811-0003
NOT TO SCALE



NOTES:

NATURAL MATERIALS TO BE USED FOR EROSION CONTROL BLANKET. PLASTIC/POLYMER MATERIALS ARE NOT PERMITTED.

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

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

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

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

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

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

ITEM NUMBER: 0806-0013

TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2C

NOT TO SCALE

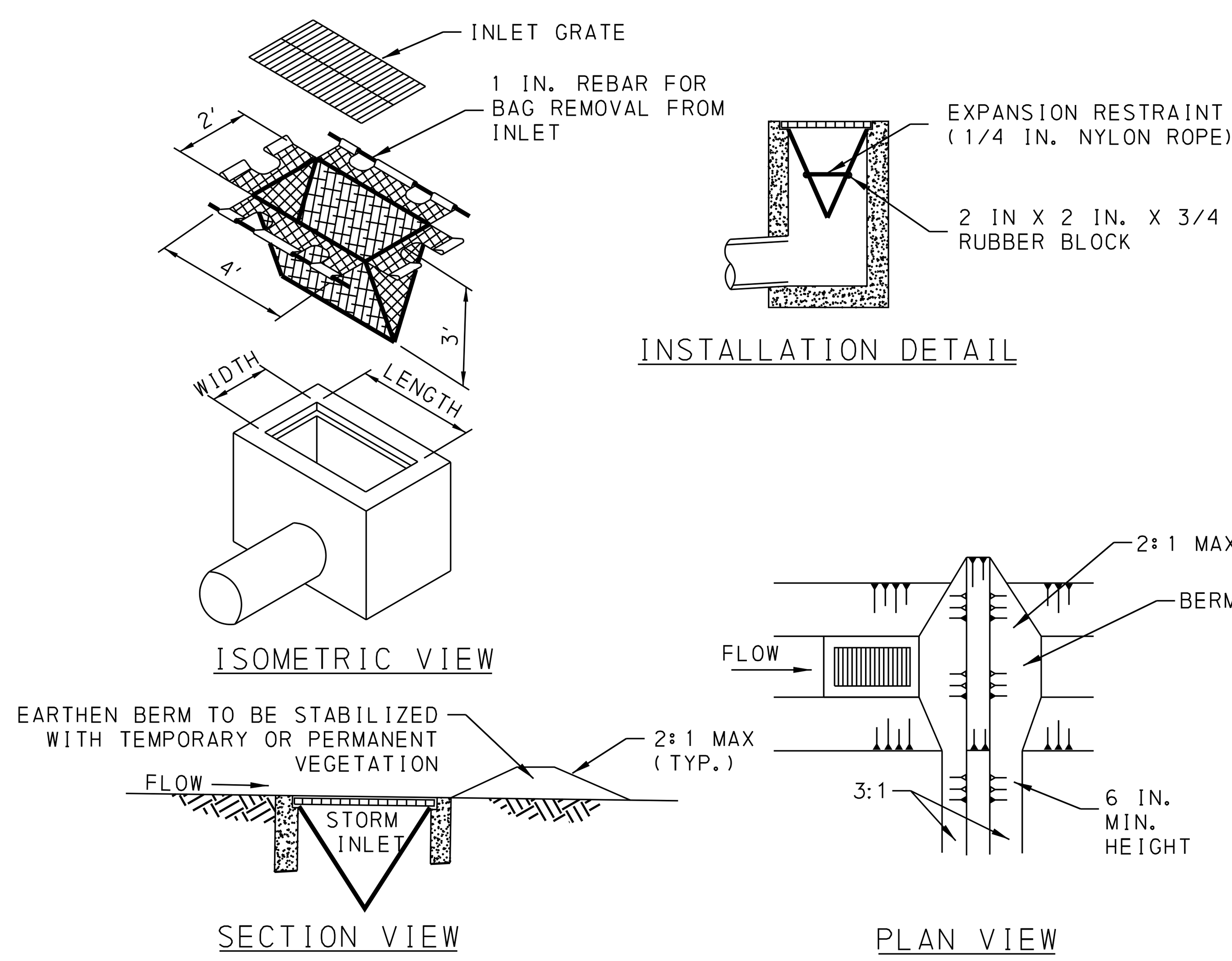
EROSION AND SEDIMENT POLLUTION CONTROL DETAILS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
Jenni Erin Woodworth

DESIGN BY: EBD	CHECKED BY: JEW

DWG ESC-17 OF 19

11-12-2019



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 SIEVE.

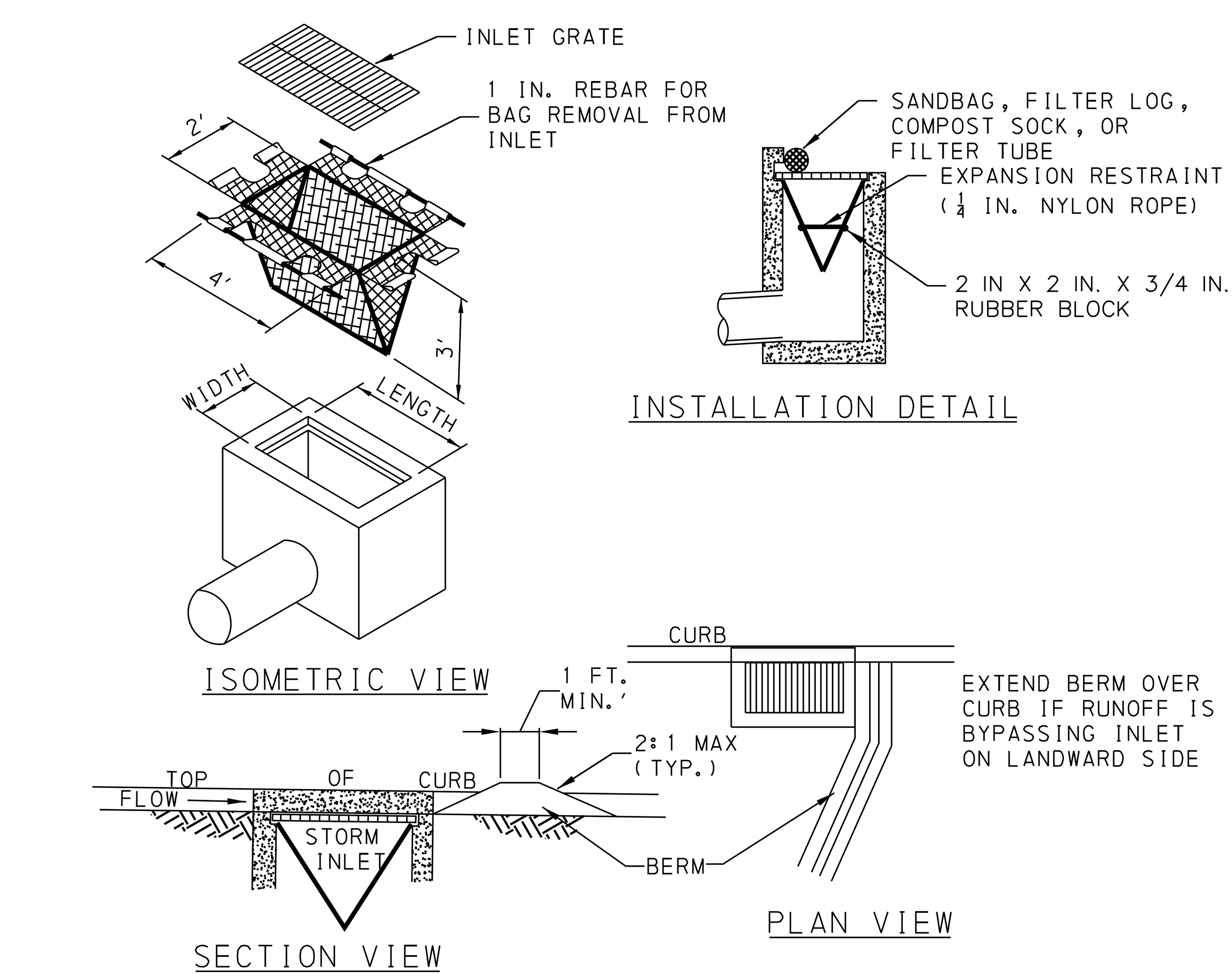
INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED 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.

ITEM NUMBER: 0860-0000

STANDARD CONSTRUCTION DETAIL #4-16
FILTER BAG INLET PROTECTION - TYPE M INLET

N.T.S.



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 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 SIEVE.

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.

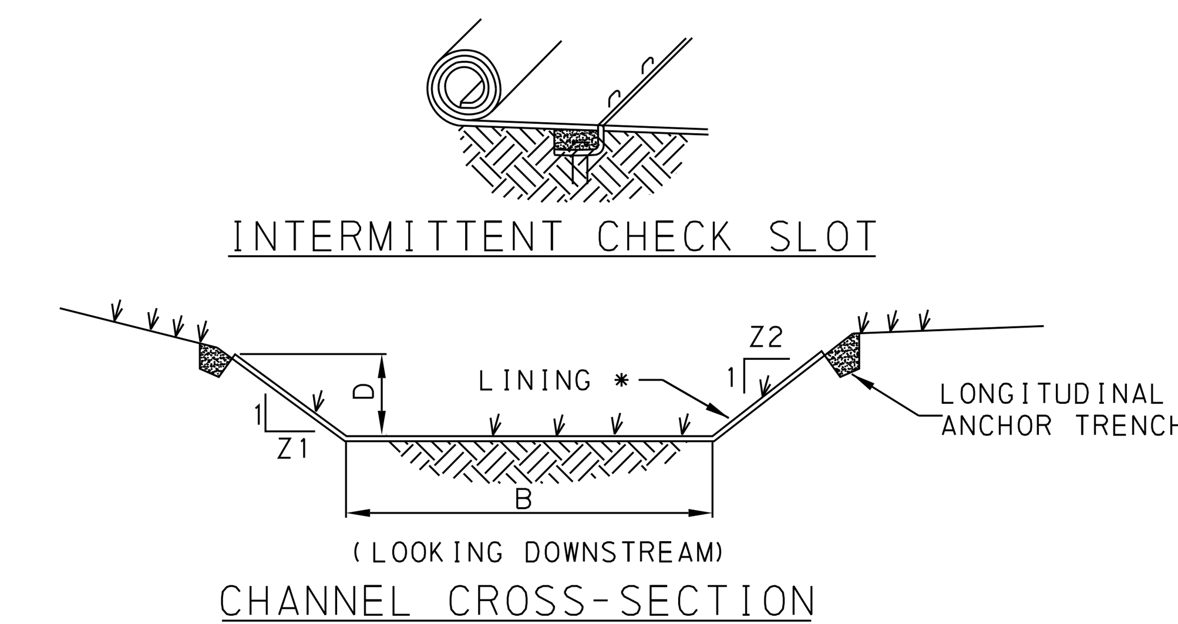
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

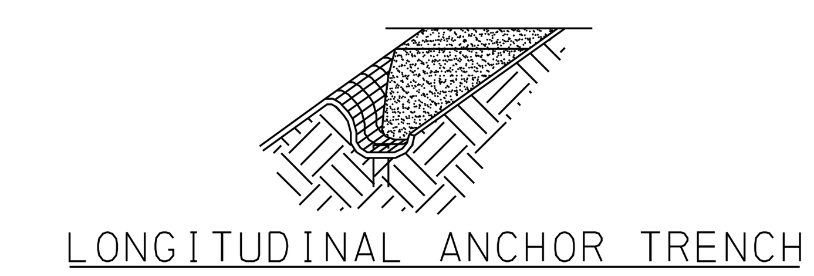
ITEM NUMBER: 0860-0002

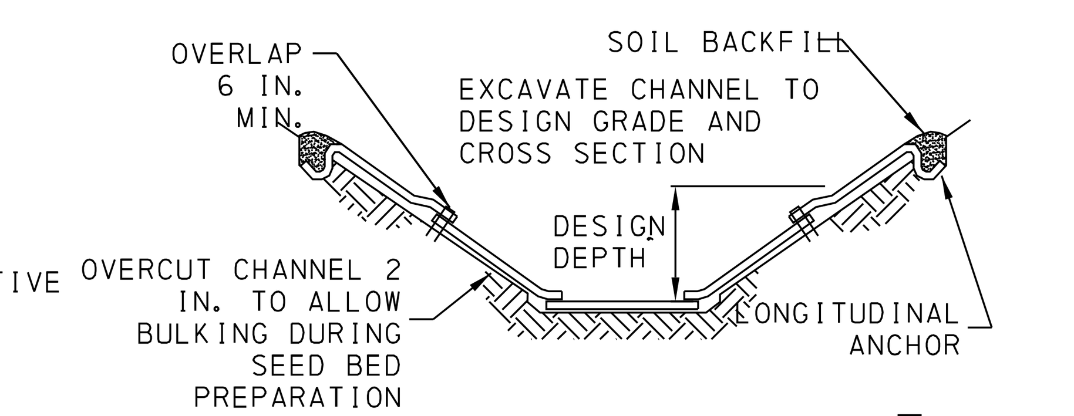
STANDARD CONSTRUCTION DETAIL #4-15
FILTER BAG INLET PROTECTION - TYPE C INLET

N.T.S.

LANDLOC 435 TRM		
PROPERTY	TEST	
THICKNESS	ASTM D-6525	0.35 IN.
LIGHT PENETRATION	ASTM D-6567	40%
TENSILE STRENGTH	ASTM D-6818	225X175 LB/FT
ELONGATION	ASTM D-6818	50%
RESILIENCY	ASTM D-6524	80%
FLEXIBILITY	ASTM D-6575	0.015 IN-LB
UV RESISTANCE	ASTM D-4355	80% RETAINED AT 1,000 HRS
MAX VELOCITY	-	12 FT/S
MAX SHEAR STRESS	-	8 LB/SF
MANNING'S N	-	0.025
SEEDING EMERGENCE	ASTM D-7322	273%





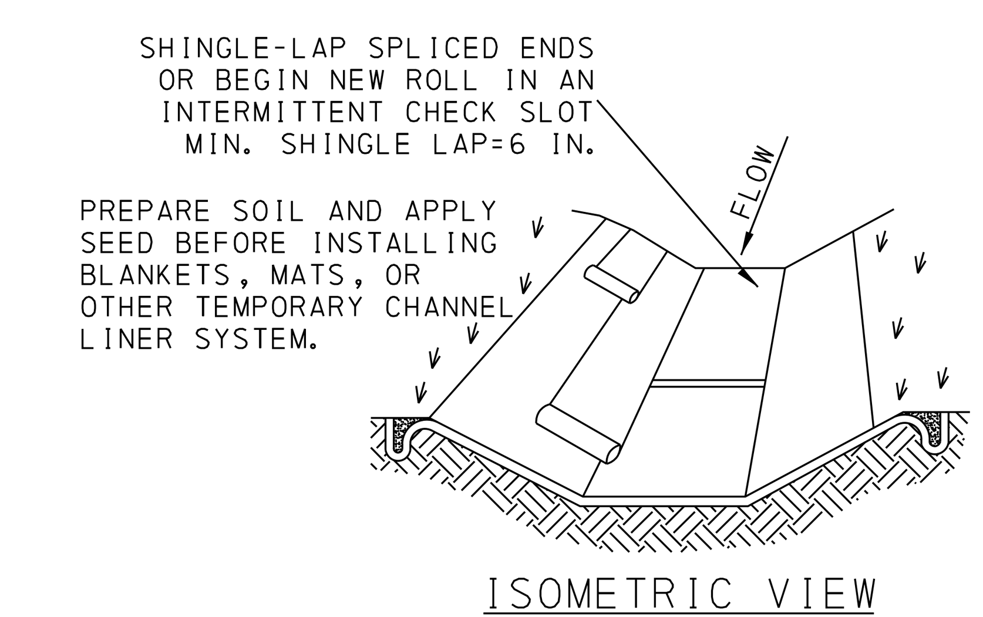


* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

CHANNEL NO.	STATIONS (TRAIL STATIONING)	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING *
1	1000+67.7 TO 1002+87.5	1.5	VARIES	VARIES	3	3	TYPE 2C*
2	1006+79.8 TO 1008+77.2	2.0	VARIES	VARIES	3	3	TYPE 2C*
3	10+85 TO 11+92	3.0	VARIES	VARIES	3	3	TYPE 2C*

SEE SECTIONS AND PROFILES IN APPROPRIATE SWM PLAN FOR ADDITIONAL INFORMATION. SEE THIS SHEET FOR LANDLOK TRM REQUIREMENTS.

*TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2C



NOTES:

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

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

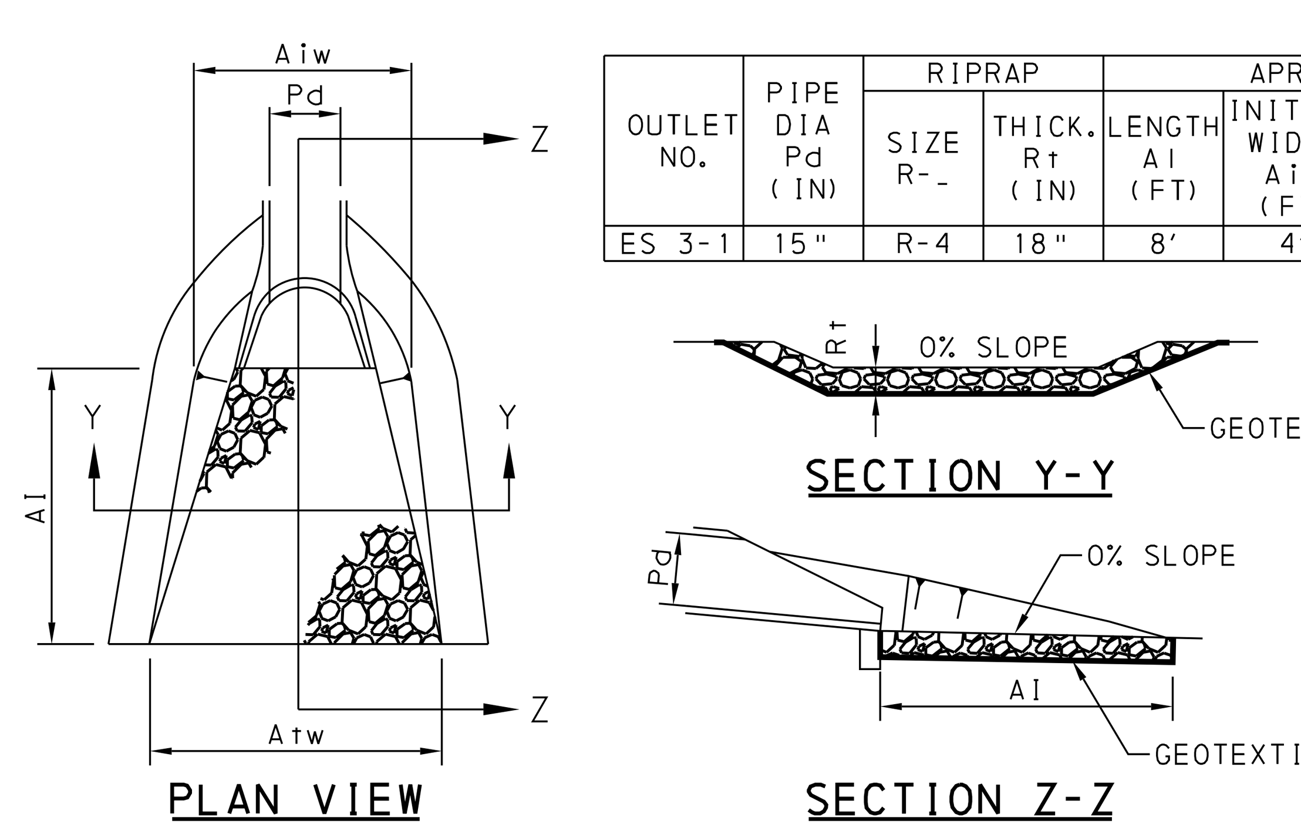
NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

ITEM NUMBER FOR CHANNEL LINING MATERIAL: 0806-0112

STANDARD CONSTRUCTION DETAIL #6-1
VEGETATED CHANNEL

NOT TO SCALE

OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP SIZE R-_	RIPRAP THICK. Rt (IN)	APRON LENGTH Al (FT)	APRON INITIAL WIDTH Aiw (FT)	APRON TERMINAL WIDTH Atw (FT)
ES 3-1	15"	R-4	18"	8'	4'	12'



NOTES:

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

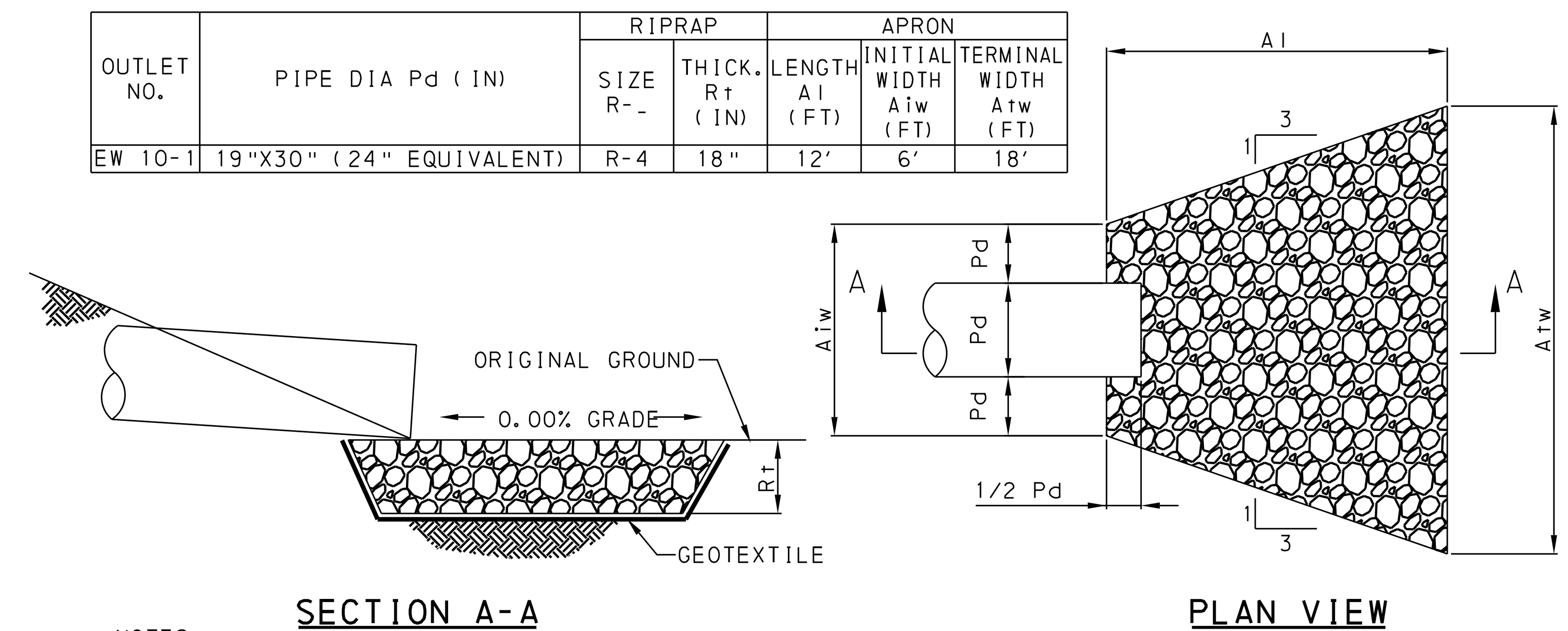
ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

ITEM NUMBER: 0851-003

STANDARD CONSTRUCTION DETAIL #9-1
RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL

NOT TO SCALE

OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP SIZE R-_	RIPRAP THICK. Rt (IN)	APRON LENGTH Al (FT)	APRON INITIAL WIDTH Aiw (FT)	APRON TERMINAL WIDTH Atw (FT)
EW 10-1	19"X30" (24" EQUIVALENT)	R-4	18"	12'	6'	18'



NOTES:

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.

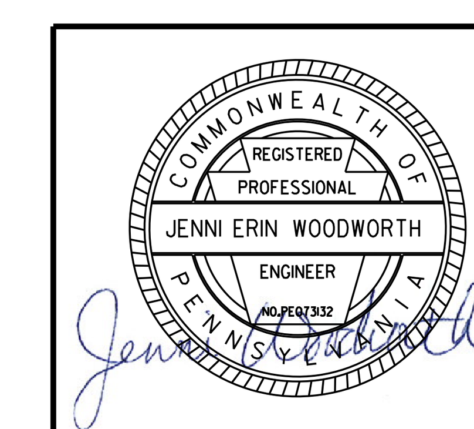
EXTEND RIPRAP ON BACK SIDE OF APRON TO AT LEAST 1/2 DEPTH OF PIPE ON BOTH SIDES TO PREVENT SCOUR AROUND THE PIPE.

ITEM NUMBER: 0850-0032
ITEM NUMBER: 0212-0014

STANDARD CONSTRUCTION DETAIL #9-2
RIPRAP APRON AT PIPE OUTLET NO FLARED ENDWALL

NOT TO SCALE

EROSION AND SEDIMENT POLLUTION CONTROL DETAILS



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	34 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

MAINTENANCE PROGRAM

THE CONTRACTOR SHALL PERFORM ROUTINE STANDARD DAILY OPERATIONS TO MINIMIZE EROSION AND PREVENT POLLUTION SUCH AS CULVERT CLEANING, DUST CONTROL AND ROADWAY CLEANING, AND LITTER CONTROL.

AT THE END OF EACH DAY, EQUIPMENT OPERATORS SHALL PERFORM TEMPORARY LAND GRADING OPERATIONS TO SAFELY CONDUCT SURFACE RUNOFF TO OTHER INSTALLED BMP'S (EXCEPT COMPOST FILTER SOCK) TO INSURE THAT POTENTIAL STORMWATER RUNOFF WILL NOT DAMAGE SLOPES OR OTHER GRADED AREAS.

ALL EROSION AND SEDIMENT CONTROL ITEMS WILL REQUIRE MAINTENANCE TO ENSURE PERFORMANCE BOTH DURING AND AFTER CONSTRUCTION. THE APPROPRIATE MAINTENANCE FOR EACH ITEM IS SPECIFIED IN CHAPTERS 3, 4, 6 & 9 OF THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION EROSION AND SEDIMENT CONTROL MANUAL (2012). INSPECTIONS OF THE PERMANENT, TEMPORARY, AND NON-STRUCTURAL CONTROLS WILL BE PERFORMED AS FOLLOWS:

THE CONTRACTOR'S MONITORING PROGRAM SHALL INCLUDE WEEKLY INSPECTION OF EROSION CONTROL FEATURES AND WITHIN 24 HOURS AFTER ANY RUNOFF EVENT. ANY EROSION CONTROL FEATURES WHICH ARE DAMAGED OR IN NEED OF MAINTENANCE SHALL BE CLEANED, REPLACED, OR REPAIRED WITHIN 24 HOURS.

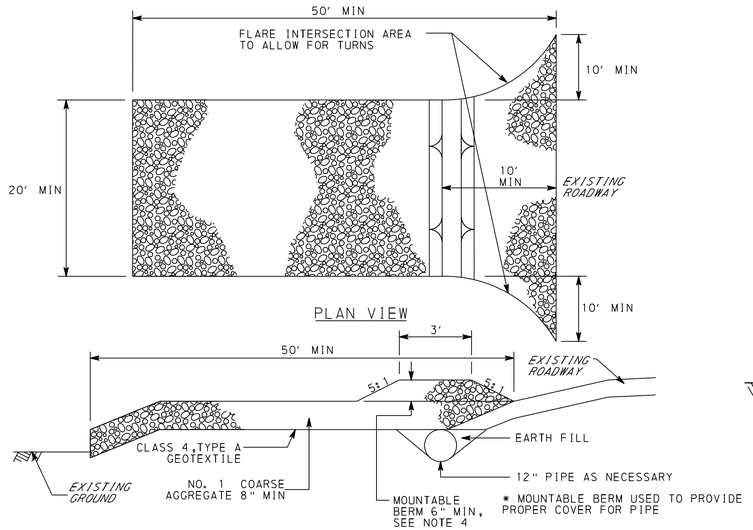
UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROL BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, 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 REQUIRED.

ANY SEDIMENT REMOVED FROM BMPS DURING CONSTRUCTION WILL BE RETURNED TO UPLAND AREAS ON SITE AND INCORPORATED INTO THE SITE GRADING.

A LOG SHOWING THE DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THAT THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO THE PHILADELPHIA WATER DEPARTMENT OR OTHER REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

ESPC BMP INSPECTION, MAINTENANCE AND REPAIR SCHEDULE

BMP	INSPECTION	MAINTENANCE	REPAIR
COMPOST FILTER SOCK	WEEKLY AND AFTER EVERY RAINFALL EVENT	PERFORM ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, AND REPLACEMENT IMMEDIATELY FOLLOWING INSPECTION. REPLACE BIODEGRADABLE SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS. REMOVE SEDIMENT WHEN ACCUMULATIONS REACH ONE HALF THE ABOVE GROUND HEIGHT OF THE SOCK. DISPOSE OF SEDIMENT IN STOCKPILE BEHIND SOCK, STABILIZING WITH SEED OR OTHER METHODS.	REPLACE DAMAGED SECTIONS WITH ADDITIONAL FILTER SOCK WITHIN 24-HOURS OF INSPECTION. REPAIR UNDERCUT AND OVERTOPPED SECTIONS WITH ADDITIONAL FILTER SOCK.
INLET FILTER BAG	WEEKLY AND AFTER EVERY RAINFALL EVENT	BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO THE 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.
RUMBLE PAD CONSTRUCTION ENTRANCE	DAILY	ACCUMULATED MATERIALS SHOULD BE REMOVED DAILY AND MORE OFTEN IF NECESSARY.	DAMAGED RUMBLE PAD ENTRANCE SHOULD BE REPLACED.
ROCK CONSTRUCTION ENTRANCES	AT THE END OF THE CONSTRUCTION DAY, UNLESS DIRECTED BY THE REPRESENTATIVE TO BE MORE FREQUENTLY	MAINTAIN THE SPECIFIED THICKNESS OF ALL ROCK CONSTRUCTION ENTRANCES BY THE ADDITION OF ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON THE PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY IS NOT PERMITTED.	ADD ADDITIONAL ROCK AS NECASSAY TO MAINTAIN THE SPECIFIED THICKNESS OF ALL ROCK CONSTRUCTION ENTRANCES.
PUMPED WATER FILTER BAG	DAILY, PRIOR TO THE START OF PUMPING, AND PERIODICALLY DURING PUMPING OPERATIONS (INSPECT AT LEAST ONE TIME EVERY TWO HOURS DURING OPERATION)	IF A PROBLEM IS DETECTED, CEASE PUMPING IMMEDIATELY UNTIL THE PROBLEM IS CORRECTED. REPLACE THE FILTER BAG WHEN IT IS HALF FULL OR WHEN THE CONTAINED SILT REDUCES THE FLOW TO APPROXIMATELY 50% OF THE RATE OF THE INITIAL DISCHARGE. KEEP A REPLACEMENT FILTER BAG. TAKE TO AN APPROVED DISPOSAL AREA AFTER USE. WHEN REMOVED, RESTORE DISTURBED AREA AND STABILIZE IMMEDIATELY.	REPLACE BAG AT HALF FULL OR WHEN FLOW RATE IS REDUCED OR IF BAG IS DAMAGED.
ROLLED EROSION CONTROL PRODUCT	WEEKLY AND AFTER EVERY RAINFALL EVENT	N/A	RESTORE OR REPLACE RECP WITHIN 4 CALENDAR DAYS IF DAMAGED OR DISPLACED
COMPOST SOCK CONCRETE WASHOUT	DAILY	REMOVE AND REPLACE FACILITY IF ACCUMULATED MATERIALS REACH 60% OF THE COMPOST FILTER SOCK HEIGHT. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.	IMMEDIATELY REPLACE OR REPAIR IF DAMAGED OR LEAKING
VEGETATION	WEEKLY AND AFTER EVERY RAINFALL EVENT	INSPECT SITE FOR GULLIES OR RILLS FORMING IN SLOPES AND UNVEGETATED AREAS	REGRADE AND TRACK THE SLOPES. APPLY SEED AND MULCH AT THE SPECIFIED RATE IF REPAIRING A VEGETATED AREA. IF DIFFICULTY IS ENCOUNTERED IN ESTABLISHING VEGETATION IN AN AREA, A SOIL TEST MAY BE REQUIRED TO DETERMINE ANY ADDITIONAL SOIL SUPPLEMENTS THAT MAY BE NEEDED.



PROFILE

NOTES:

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

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

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

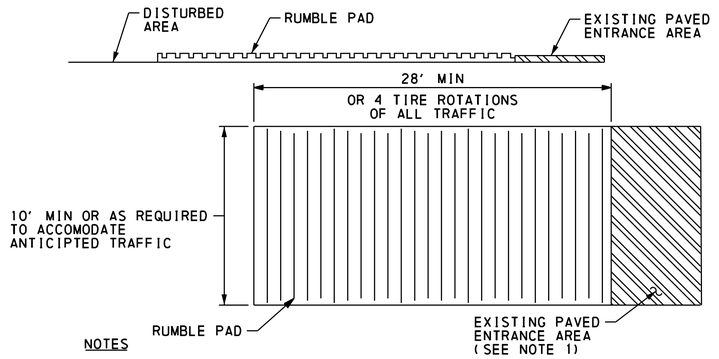
4. CONSTRUCT A MOUNTABLE BERM ONLY WHEN 6" MIN COVER CANNOT BE PROVIDED OVER THE PIPE.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

ITEM NUMBER: 0849-0010

ROCK CONSTRUCTION ENTRANCE

N.T.S.



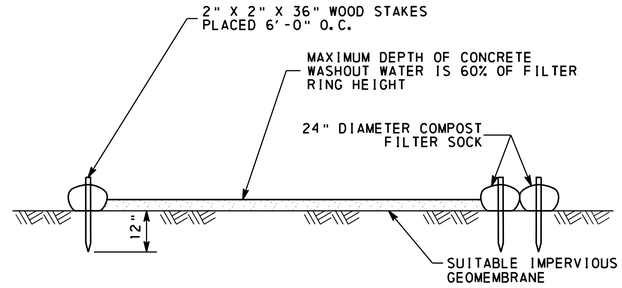
NOTES

1. IF ENTRANCE IS NOT PAVED, EITHER EXTEND THE RUMBLE PAD TO THE EDGE OF PAVEMENT OR PLACE NO. 1 COARSE AGGREGATE BETWEEN THE PAD AND THE EDGE OF PAVEMENT.

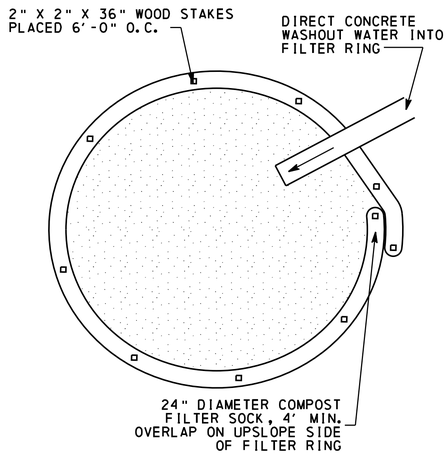
ITEM NUMBER: 9000-0001

RUMBLE PAD CONSTRUCTION ENTRANCE

NOT TO SCALE



SECTION VIEW



PLAN VIEW

COMPOST SOCK CONCRETE WASHOUT NOTES

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. IMPERVIOUS LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

ITEM NUMBER: 9000-0002

COMPOST SOCK CONCRETE WASHOUT

NOT TO SCALE

EROSION AND SEDIMENT POLLUTION CONTROL DETAILS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
049161332

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

DWG ESC-19 OF 19

PLOTTED: 10/1/2020 12:42:08 PM
A.D. MARBLE
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	35 OF 47

RADNOR TOWNSHIP

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

----- 375 -----	EXISTING CONTOUR MAJOR
----- 374 -----	EXISTING CONTOUR MINOR
—— 375 ——	PROPOSED CONTOUR MAJOR
—— 374 ——	PROPOSED CONTOUR MINOR
—— LOD ——	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
— x —	PROPOSED FENCE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING TREE
	REMOVAL OF EXISTING TREE
	PROPOSED TREE/PLANTING
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
— S —	EXISTING SANITARY SEWER
— T —	EXISTING UNDERGROUND TELEPHONE
— E —	EXISTING ELECTRIC LINE
— W —	EXISTING WATER LINE
— G —	EXISTING GAS LINE
— C —	EXISTING UNDERGROUND CONDUIT
— x —	EXISTING FENCE
	EXISTING GUIDERAIL

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.

0 25 50
SCALE IN FEET: 1"=25'

TREE REMOVAL AND PLANTING PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

DWG PL-01 OF 13

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 01.dgn
PLOTTED: 11/12/2019 2:13:56 PM

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	36 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

Symbol	Description
375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
x	PROPOSED FENCE
	EXISTING RIGHT-OF-WAY
ℓ	EXISTING PROPERTY LINE
	EXISTING TREE
	REMOVAL OF EXISTING TREE
	PROPOSED TREE/PLANTING
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.

TREE REMOVAL AND PLANTING PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

REGISTERED PROFESSIONAL ENGINEER JENNI ERIN WOODWORTH — COMMONWEALTH OF PENNSYLVANIA

DWG PL-02 OF 13

11-12-2019

PLOTTED: 11/12/2019 2:13:57 PM

A.D. MARBLE

FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 02.dgn

DESIGN BY: EBD | CHECKED BY: JEW

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	37 OF 47
RADNOR TOWNSHIP				

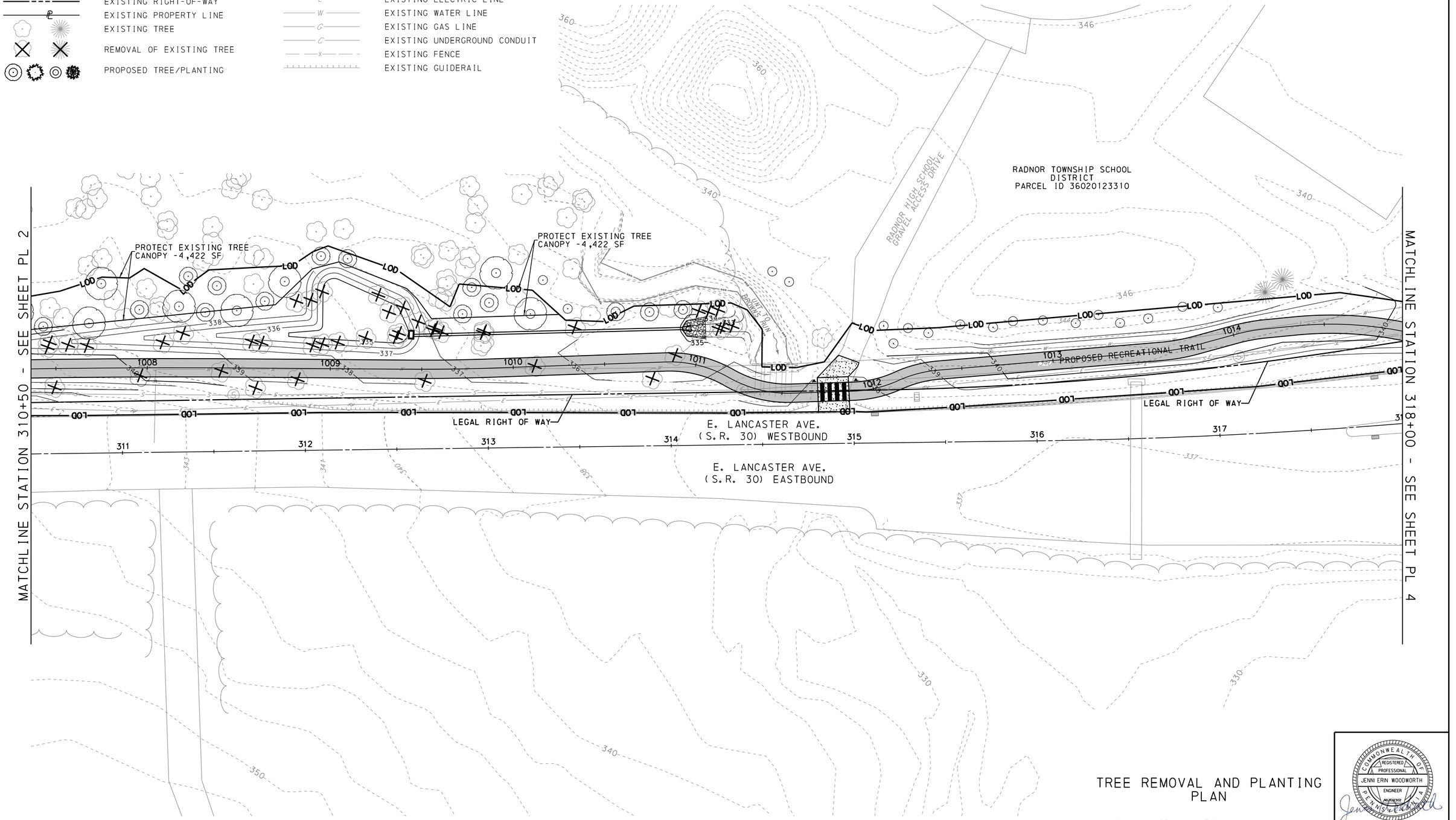
REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- 375 — EXISTING CONTOUR MAJOR
- 374 — EXISTING CONTOUR MINOR
- 375 — PROPOSED CONTOUR MAJOR
- 374 — PROPOSED CONTOUR MINOR
- LOD — LIMIT OF DISTURBANCE / NPDES PERMIT BOUNDARY
- PROPOSED FENCE
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING TREE
- REMOVAL OF EXISTING TREE
- PROPOSED TREE/PLANTING
- EXISTING STREAM BOUNDARY
- EXISTING WETLAND
- UTILITY POLE, LIGHT POLE, SIGN
- EXISTING WOOD LINE
- S — EXISTING SANITARY SEWER
- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- C — EXISTING UNDERGROUND CONDUIT
- EXISTING FENCE
- EXISTING GUIDERAIL

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.



TREE REMOVAL AND PLANTING PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

DESIGN BY: EBD | CHECKED BY: JEW

DWG PL-03 OF 13

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JENNI ERIN WOODWORTH — ENGINEER — NO. PE067332

11-12-2019

PLOTTED: 11/12/2019 2:13:58 PM

A.D. MARBLE

FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 03.dgn

LEGEND

Symbol	Description
- - - 375 - - -	EXISTING CONTOUR MAJOR
- - - 374 - - -	EXISTING CONTOUR MINOR
——375——	PROPOSED CONTOUR MAJOR
——374——	PROPOSED CONTOUR MINOR
——LOD——	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
—x—	PROPOSED FENCE
— - - —	EXISTING RIGHT-OF-WAY
— ℙ —	EXISTING PROPERTY LINE
	EXISTING TREE
	REMOVAL OF EXISTING TREE
	PROPOSED TREE/PLANTING
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
— S —	EXISTING SANITARY SEWER
— T —	EXISTING UNDERGROUND TELEPHONE
— E —	EXISTING ELECTRIC LINE
— W —	EXISTING WATER LINE
— G —	EXISTING GAS LINE
— C —	EXISTING UNDERGROUND CONDUIT
— x —	EXISTING FENCE
	EXISTING GUIDERAIL

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.

TREE REMOVAL AND PLANTING PLAN

SCALE IN FEET: 1"=25' (0 25 50)

JENNI ERIN WOODWORTH, REGISTERED PROFESSIONAL ENGINEER, COMMONWEALTH OF PENNSYLVANIA

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 04.dgn

PLOTTED: 11/12/2019 2:13:59 PM

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
x	PROPOSED FENCE
	EXISTING RIGHT-OF-WAY
PL	EXISTING PROPERTY LINE
	EXISTING TREE
	REMOVAL OF EXISTING TREE
	PROPOSED TREE/PLANTING
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.

SCALE IN FEET: 1"=25' (0, 25, 50)

TREE REMOVAL AND PLANTING PLAN

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JENNI ERIN WOODWORTH

DESIGN BY: EBD	CHECKED BY: JEW

PLOTTED: 11/12/2019 2:13:59 PM

A.D. MARBLE

FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 05.dgn

LEGEND

- EXISTING CONTOUR MAJOR (375)
- EXISTING CONTOUR MINOR (374)
- PROPOSED CONTOUR MAJOR (375)
- PROPOSED CONTOUR MINOR (374)
- LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY (LOD)
- PROPOSED FENCE
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING TREE
- REMOVAL OF EXISTING TREE
- PROPOSED TREE/PLANTING
- EXISTING STREAM BOUNDARY
- EXISTING WETLAND
- UTILITY POLE, LIGHT POLE, SIGN
- EXISTING WOOD LINE
- EXISTING SANITARY SEWER
- EXISTING UNDERGROUND TELEPHONE
- EXISTING ELECTRIC LINE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND CONDUIT
- EXISTING FENCE
- EXISTING GUIDERAIL

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.

TREE REMOVAL AND PLANTING PLAN

SCALE IN FEET: 1"=25' (0 25 50)

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JENNI ERIN WOODWORTH ENGINEER

PLOTTED: 11/12/2019 2:14:00 PM

A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 06.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	41 OF 47

RADNOR TOWNSHIP

REVISION NUMBER	REVISIONS	DATE	BY

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.

LEGEND

- 375 — EXISTING CONTOUR MAJOR
- 374 — EXISTING CONTOUR MINOR
- 375 — PROPOSED CONTOUR MAJOR
- 374 — PROPOSED CONTOUR MINOR
- LOD — LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
- x — PROPOSED FENCE
- EXISTING RIGHT-OF-WAY
- ℘ — EXISTING PROPERTY LINE
- EXISTING TREE
- REMOVAL OF EXISTING TREE
- PROPOSED TREE/PLANTING
- EXISTING STREAM BOUNDARY
- EXISTING WETLAND
- UTILITY POLE, LIGHT POLE, SIGN
- EXISTING WOOD LINE
- S — EXISTING SANITARY SEWER
- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- C — EXISTING UNDERGROUND CONDUIT
- x — EXISTING FENCE
- EXISTING GUIDERAIL

TREE REMOVAL AND PLANTING PLAN

SCALE IN FEET: 1"=25' (0, 25, 50)

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JENNI ERIN WOODWORTH

DESIGN BY: EBD | CHECKED BY: JEW | DWG PL-07 OF 13 | 11-12-2019

PLOTTED: 11/12/2019 2:14:01 PM

A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 07.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	42 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
x	PROPOSED FENCE
	EXISTING RIGHT-OF-WAY
℄	EXISTING PROPERTY LINE
	EXISTING TREE
	REMOVAL OF EXISTING TREE
	PROPOSED TREE/PLANTING
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL

MATCHLINE STATION 526+50 - SEE SHEET PL 9

MATCHLINE STATION 519+50 - SEE SHEET PL 7

TRUSTEE OF UNIVERSITY OF PENNSYLVANIA
PARCEL ID 36020115800

RADNOR TOWNSHIP SCHOOL DISTRICT
PARCEL ID 36020123310

PROPOSED RECREATIONAL TRAIL

KING OF PRUSSIA RD.

LEGAL RIGHT OF WAY

HARRIS RUN

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.

TREE REMOVAL AND PLANTING PLAN

SCALE IN FEET: 1"=25'

DESIGN BY: EBD	CHECKED BY: JEW

DWG PL-08 OF 13

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
No. PE087332

11-12-2019

PLOTTED: 11/12/2019 2:14:02 PM

A.D. MARBLE

FILE NAME: X:\Projects\P1585\CADD\PlanPlanting\Tree Removal Plan 08.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	43 OF 47
RADNOR TOWNSHIP				

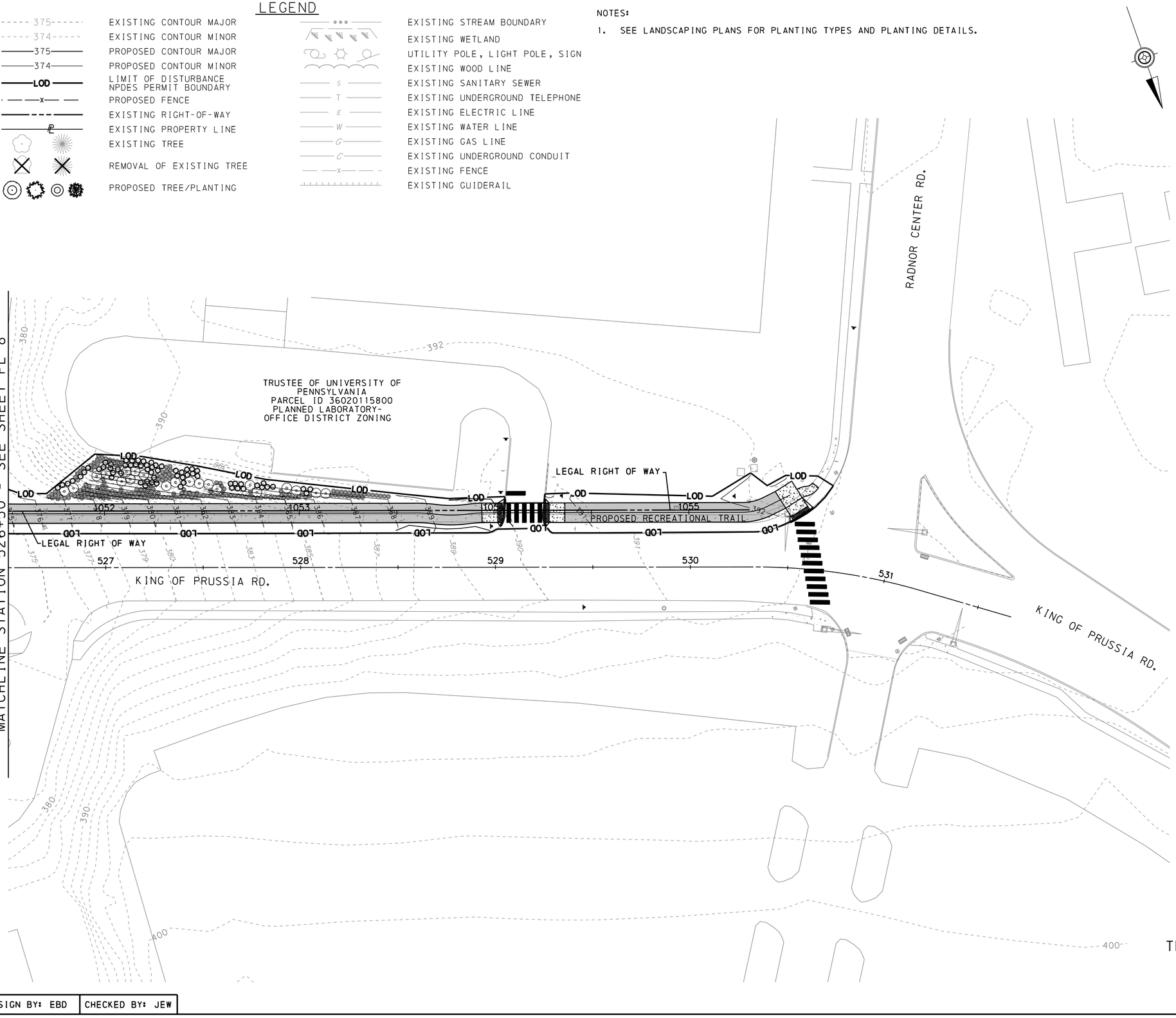
REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
x	PROPOSED FENCE
	EXISTING RIGHT-OF-WAY
℄	EXISTING PROPERTY LINE
	EXISTING TREE
	REMOVAL OF EXISTING TREE
	PROPOSED TREE/PLANTING
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.



TREE REMOVAL AND PLANTING PLAN

0 25 50
SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER
No. PE082532

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

DWG PL-09 OF 13

PLOTTED: 11/12/2019 2:14:03 PM
A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 09.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	44 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- 375 — EXISTING CONTOUR MAJOR
- 374 — EXISTING CONTOUR MINOR
- 375 — PROPOSED CONTOUR MAJOR
- 374 — PROPOSED CONTOUR MINOR
- LOD — LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
- PROPOSED FENCE
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING TREE
- REMOVAL OF EXISTING TREE
- PROPOSED TREE/PLANTING
- EXISTING STREAM BOUNDARY
- EXISTING WETLAND
- UTILITY POLE, LIGHT POLE, SIGN
- EXISTING WOOD LINE
- S — EXISTING SANITARY SEWER
- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- C — EXISTING UNDERGROUND CONDUIT
- EXISTING FENCE
- EXISTING GUIDERAIL

NOTES:

1. SEE LANDSCAPING PLANS FOR PLANTING TYPES AND PLANTING DETAILS.

CONESTOGA ROAD

LENOIR AVE.

LEGAL RIGHT-OF-WAY

CONESTOGA ROAD

N/L ROBERT M. HALLIGAN
DBV. 2499 PG 116
CLOSURE: 0.00
36-12-511

N/L RADNOR TOWNSHIP
DBV. 1517 PG 1594
CLOSURE 0.36'
36-12-514

PROTECT EXISTING TREES

PROTECT EXISTING TREE

EXISTING RAIL TRAIL

FRIENDS OF RADNOR TRAIL PARK
PARKING LOT

N/L ALBERT CONSTANTINE
DBV 5711 PG 43
CLOSURE: 0.00
36-12-510

N/L FRANCIS W. & KRISTINE HEERY
DBV 5910 PG 404
CLOSURE: 0.00
36-12-509

N/L 7 EAST STATE STREET LLC
DBV 5000 PG 1032
CLOSURE: 0.00
36-12-504

N/L JONATHAN P AND ELIZABETH MAXFIELD W YATES
DB 5136 PG 0352
36-12-503

N/L EADEH FAMILY LTD PARTNERSHIP
DB 1739 PG 2011
36-12-502

N/L CARLA B BATES
DB 5722 PG 1237
36-12-501

TREE REMOVAL AND PLANTING PLAN

SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

06-11-2020

DESIGN BY: EBD | CHECKED BY: JEW

DWG PL-10 OF 13

PLOTTED: 10/1/2020 1:01:46 PM

A.D. MARBLE

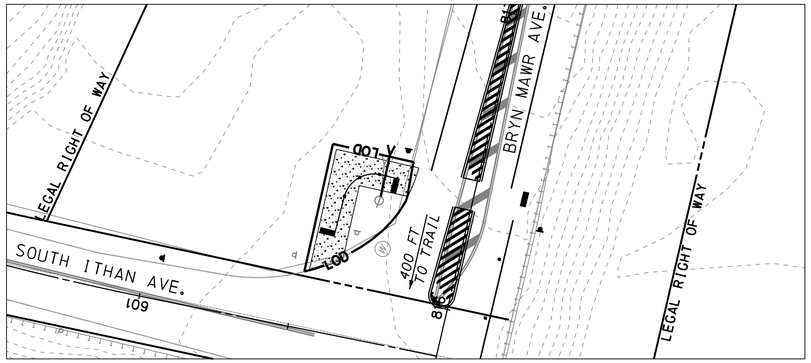
FILE NAME: \\Admfile01\cadd\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 10.dgn

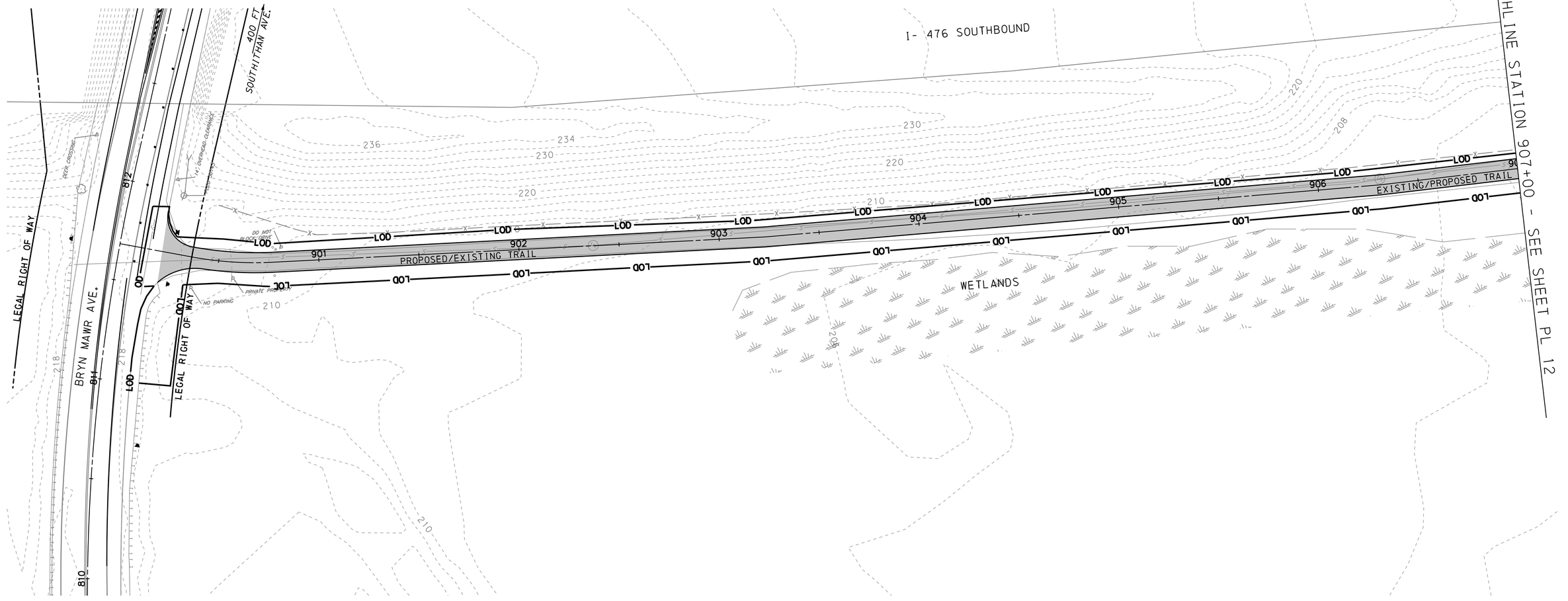
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	45 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
x	PROPOSED FENCE
	EXISTING RIGHT-OF-WAY
℄	EXISTING PROPERTY LINE
	EXISTING TREE
	REMOVAL OF EXISTING TREE
	PROPOSED TREE/PLANTING
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL





NOTES:

1. NO PLANTINGS OR TREES REMOVED THIS SHEET.

TREE REMOVAL AND PLANTING PLAN

SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

11-12-2019

DWG PL-11 OF 13

DESIGN BY: EBD | CHECKED BY: JEW

A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 11.dgn

PLOTTED: 11/12/2019 2:14:05 PM

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	46 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- 375 — EXISTING CONTOUR MAJOR
- 374 — EXISTING CONTOUR MINOR
- 375 — PROPOSED CONTOUR MAJOR
- 374 — PROPOSED CONTOUR MINOR
- LOD — LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
- x — PROPOSED FENCE
- EXISTING RIGHT-OF-WAY
- ℙ — EXISTING PROPERTY LINE
- EXISTING TREE
- REMOVAL OF EXISTING TREE
- PROPOSED TREE/PLANTING
- EXISTING STREAM BOUNDARY
- EXISTING WETLAND
- UTILITY POLE, LIGHT POLE, SIGN
- EXISTING WOOD LINE
- S — EXISTING SANITARY SEWER
- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- C — EXISTING UNDERGROUND CONDUIT
- x — EXISTING FENCE
- EXISTING GUIDERAIL

NOTES:

1. NO PLANTINGS OR TREES REMOVED THIS SHEET.

TREE REMOVAL AND PLANTING PLAN

0 25 50
SCALE IN FEET: 1"=25'

DWG PL-12 OF 13

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JENNI ERIN WOODWORTH ENGINEER

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

PLOTTED: 11/12/2019 2:14:06 PM

A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 12.dgn

PLOTTED: 11/12/2019 2:14:08 PM

LEGEND

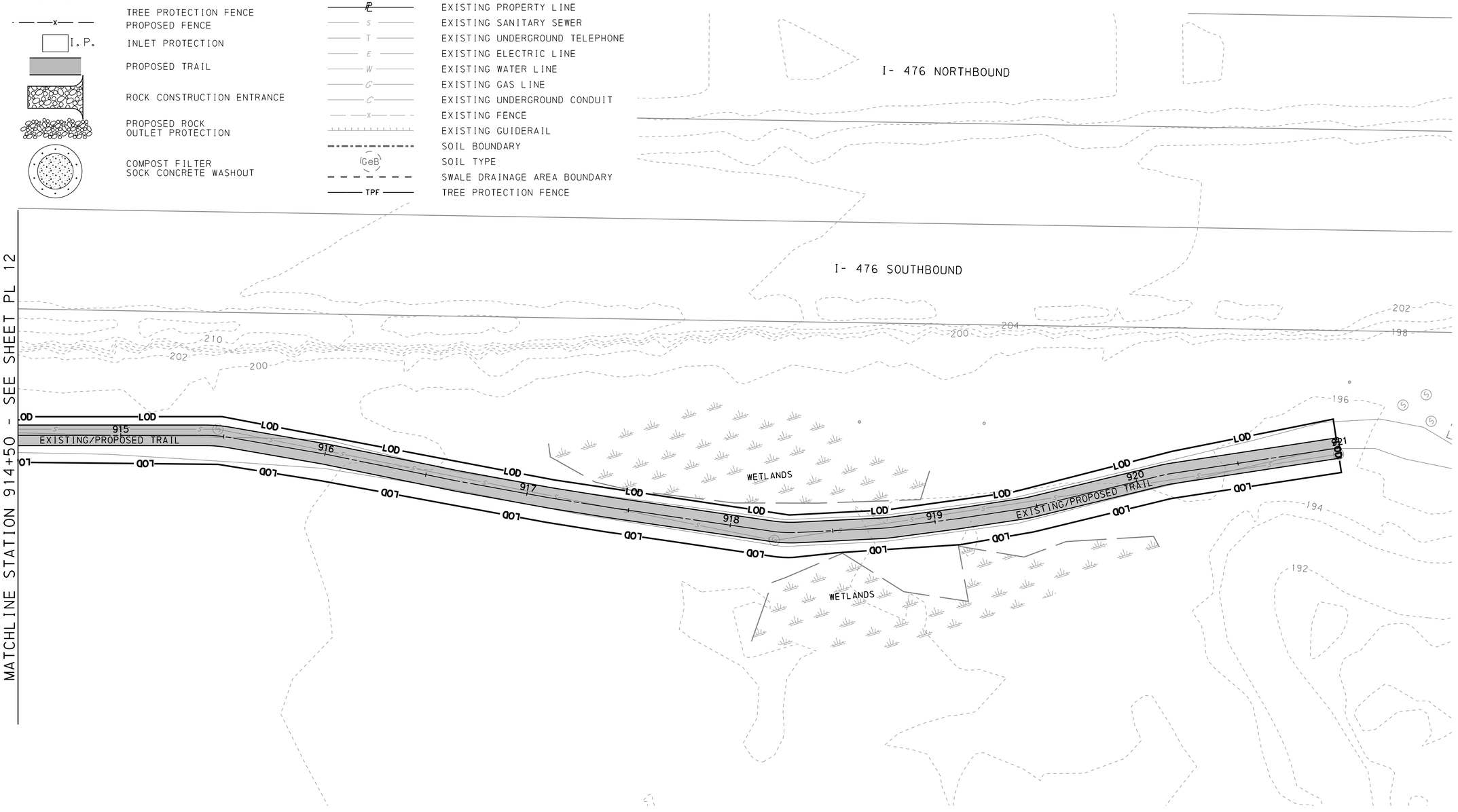
375	EXISTING CONTOUR MAJOR
374	EXISTING CONTOUR MINOR
375	PROPOSED CONTOUR MAJOR
374	PROPOSED CONTOUR MINOR
LOD	LIMIT OF DISTURBANCE NPDES PERMIT BOUNDARY
CFS12	COMPOST FILTER SOCK
	TREE PROTECTION FENCE
x	PROPOSED FENCE
I.P.	INLET PROTECTION
	PROPOSED TRAIL
	ROCK CONSTRUCTION ENTRANCE
	PROPOSED ROCK OUTLET PROTECTION
	COMPOST FILTER SOCK CONCRETE WASHOUT
	EXISTING STREAM BOUNDARY
	EXISTING WETLAND
	EXISTING TREE
	UTILITY POLE, LIGHT POLE, SIGN
	EXISTING WOOD LINE
	EXISTING RIGHT-OF-WAY
P	EXISTING PROPERTY LINE
S	EXISTING SANITARY SEWER
T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
C	EXISTING UNDERGROUND CONDUIT
x	EXISTING FENCE
	EXISTING GUIDERAIL
	SOIL BOUNDARY
GeB	SOIL TYPE
	SWALE DRAINAGE AREA BOUNDARY
TPF	TREE PROTECTION FENCE

NOTES:

1. NO PLANTINGS OR TREES REMOVED THIS SHEET.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	RRT	47 OF 47
RADNOR TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY



TREE REMOVAL AND PLANTING PLAN

SCALE IN FEET: 1"=25'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JENNI ERIN WOODWORTH
ENGINEER

11-12-2019

DESIGN BY: EBD | CHECKED BY: JEW

DWG PL-13 OF 13

A.D. MARBLE
FILE NAME: X:\Projects\P1585\CADD\Plan\Planting\Tree Removal Plan 13.dgn