

LEGEND

---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	EXISTING SOILS BOUNDARY/TYPE
---	EXISTING ELECTRIC LINE
---	EXISTING TELECOMMUNICATION LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING STORM SEWER
---	EXISTING EDGE OF PAVEMENT
---	EXISTING BUILDING
---	EXISTING WETLANDS
---	EXISTING FEMA FLOODWAY
---	EXISTING FEMA 100-YR

PCSM LEGEND

WQ	SCM 3.6.7 WATER QUALITY FILTERS
REVEGETATION	SCM 3.4.4 REVEGETATION
PROJECT SITE BOUNDARY	PROJECT SITE BOUNDARY
LIMIT OF DISTURBANCE	LIMIT OF DISTURBANCE
PROPOSED RIP RAP APRON	PROPOSED RIP RAP APRON
SCM 3.8.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS	SCM 3.8.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS
DISCHARGE POINTS/POINT OF INTEREST	DISCHARGE POINTS/POINT OF INTEREST
PROPOSED OFF-SITE SUPPORT ACTIVITIES	PROPOSED OFF-SITE SUPPORT ACTIVITIES
PROPOSED BASIN PLUGS	PROPOSED BASIN PLUGS
EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM (TOTAL AREA = 51.82 AC)	EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM (TOTAL AREA = 51.82 AC)
PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM	PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM
PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM	PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS	PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS	PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
DRAINAGE AREAS FOR SWALES	DRAINAGE AREAS FOR SWALES
PROPOSED SWM BASIN	PROPOSED SWM BASIN

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

100 WEST MAIN STREET SUITE 300, THIMPKOPPE, PA 19381 (PH) 610-368-5500 (FAX) 610-368-5501
WWW.GILMORE-ASSOCIATES.COM

ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELED UPON BY USER. THIS PLAN IS BEING REPRODUCED FOR INFORMATIONAL PURPOSES ONLY. NO REVISIONS, MODIFICATIONS, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN PERMISSION OF GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.
© COPYRIGHT 2024 GILMORE & ASSOCIATES, INC.

DAVID LEH
REGISTERED PROFESSIONAL ENGINEER
PE049778E

DATE: 12/11/25

REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER CODD REVIEW LTR	10/22/25	DL
4	REV. PER CODD LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. PER CODD LTR	06/17/25	DL
2	REV. PER TMP REVIEW LTR	05/07/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

PCSM PLAN - AREA A1

DATE: 12/11/25

EXTON PARK IMPROVEMENT PROJECT - PHASE 2

PCSM PLAN - AREA A1

SITE IMPROVEMENT PLANS

WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

PROJECT No.: 2307048

OWNERS INFO:
WEST WHITELAND TOWNSHIP
101 COMMERCE DRIVE
EXTON, PA 19341
610-363-9525

MUNICIPAL FILE No.: 41-2-84.11

TAX MAP PARCEL No.: 174.32 AC

TOTAL AREA: 174.32 AC

DATE: 02/13/25

SCALE: 1"=30'

DRAWN BY: BH

CHECKED BY: DL

SHEET NO.: 39 OF 57

PENNSYLVANIA ONE CALL SYSTEM, INC.

811

BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776

NON-MEMBERS MUST BE CONTACTED DIRECTLY
PA LAW REQUIRES THREE WORKING DAYS
NOTICE TO UTILITIES BEFORE YOU EXCAVATE,
DRILL, BLAST OR CONDUIT

SERIAL NO. 20251261543

LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKINGS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS; THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES, INC.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 387 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2018 PENNSYLVANIA ACT 50.

GILMORE & ASSOCIATES, INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.

SCALE 1"=30'

N:\Yehara\Municipal\23-07048 - YSA - Exton Park Ph II\DESIGN\CAD\Production Drawings\PCSM_Plans.dwg, Layout: 39-PCSM - AREA A1 Plotted By: bhesnel, on Mon Jan 26, 2026 at 8:56pm

PARCEL ID: 41-2-265
LAND N/F: RICHARD PETER & RICHARD ELSA WETTE
225 GREEN VALLEY ROAD,
EXTON, PA 19341
ZONING DISTRICT: R-1

PARCEL ID: 41-2-266
LAND N/F: PATEL NIRAV S
223 GREEN VALLEY ROAD,
EXTON, PA 19341
ZONING DISTRICT: R-1

PARCEL ID: 41-2-267
LAND N/F: PUTNAM JOHN
221 GREEN VALLEY ROAD,
EXTON, PA 19341
ZONING DISTRICT: R-1

PROPOSED TEMPORARY
CONSTRUCTION
PERMANENT EASEMENT
FOR UTILITY
TRENCHING (OFF-SITE
SUPPORT ACTIVITIES)
0.38 AC.

PARCEL ID: 41-2-265
LAND N/F: RICHARD PETER & RICHARD ELSA WETTE
225 GREEN VALLEY ROAD,
EXTON, PA 19341
ZONING DISTRICT: R-1

PARCEL ID: 41-2-266
LAND N/F: PATEL NIRAV S
223 GREEN VALLEY ROAD,
EXTON, PA 19341
ZONING DISTRICT: R-1

PARCEL ID: 41-2-267
LAND N/F: PUTNAM JOHN
221 GREEN VALLEY ROAD,
EXTON, PA 19341
ZONING DISTRICT: R-1

PARCEL ID: 41-2-267
LAND N/F: PUTNAM JOHN
221 GREEN VALLEY ROAD,
EXTON, PA 19341
ZONING DISTRICT: R-1

PARCEL ID: 41-2-267
LAND N/F: PUTNAM JOHN
221 GREEN VALLEY ROAD,
EXTON, PA 19341
ZONING DISTRICT: R-1

PARCEL ID: 41-2-267
LAND N/F: PUTNAM JOHN
221 GREEN VALLEY ROAD,
EXTON, PA 19341
ZONING DISTRICT: R-1

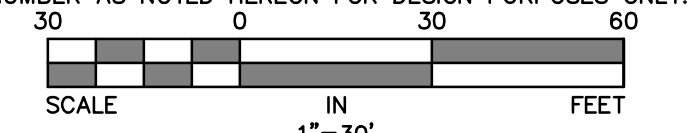
NORTH SHIP ROAD

NORTH SHIP ROAD

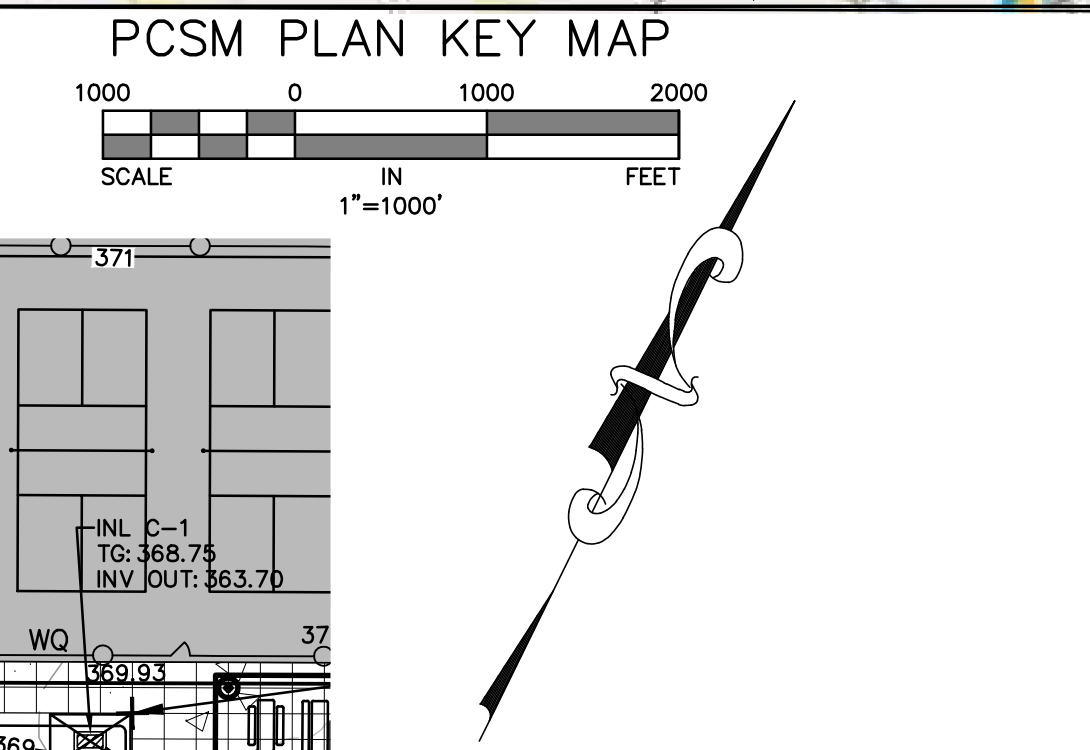
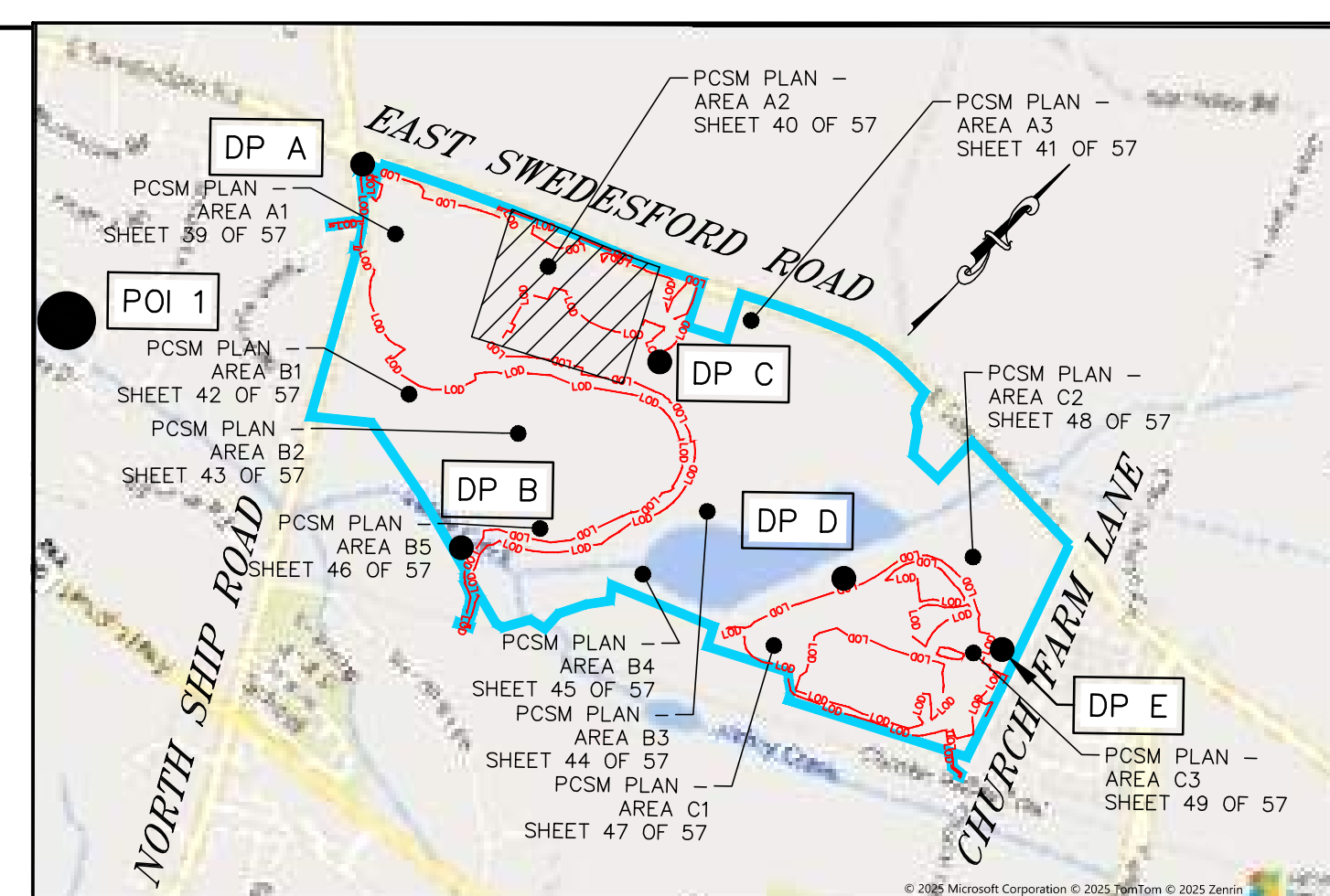
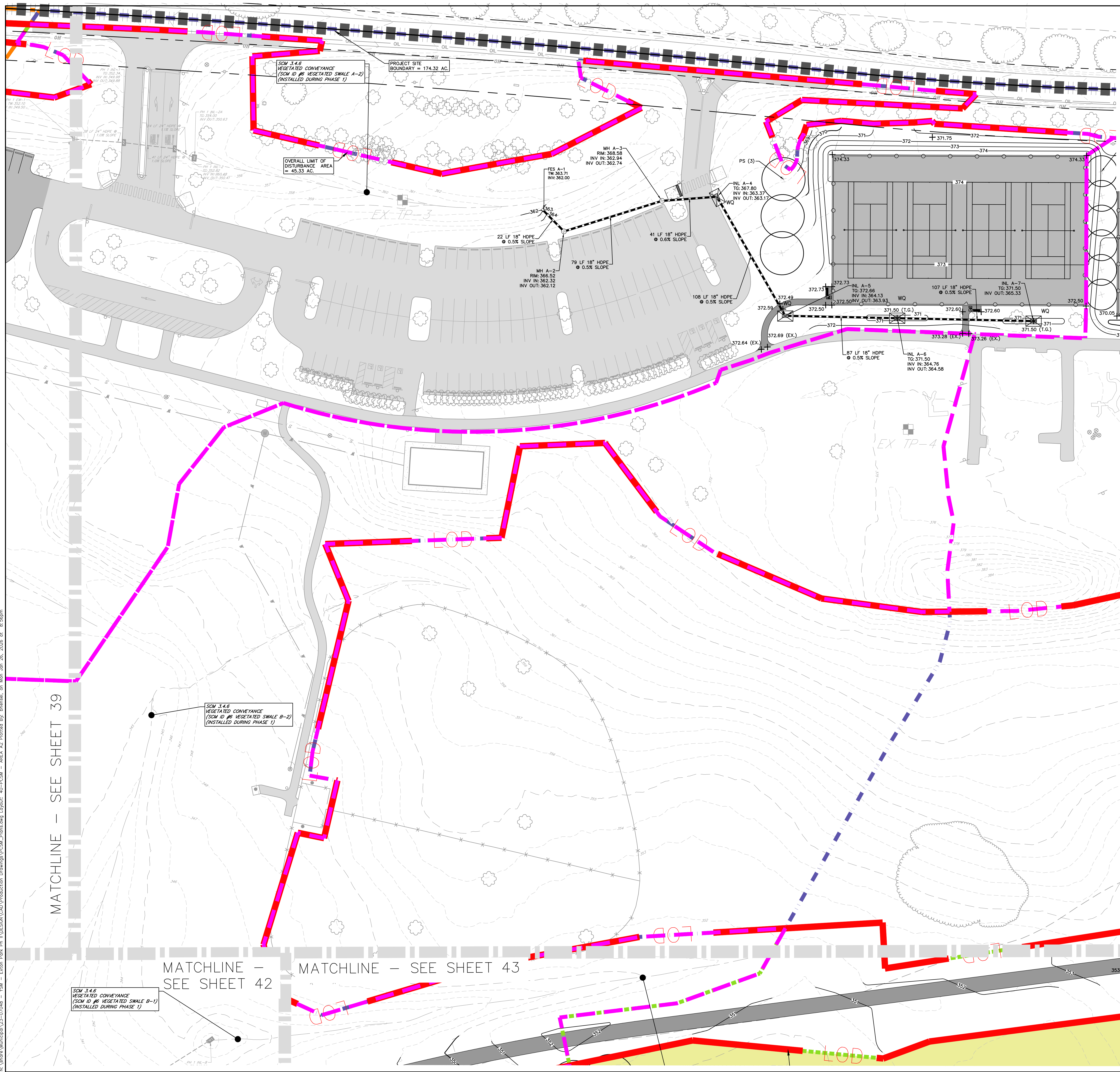
NORTH SHIP ROAD

MATCHLINE - SEE SHEET 40

MATCHLINE - SEE SHEET 42



N:\Yearra Municipal\23-07048 - YSM - Exton Park Ph II\DESIGN\CAD\Production Drawings\PCSM_Plans.dwg, Layout: 40-PCSM - AREA A2 Plotted By: bhenzel, on Mon Jan 26, 2026 at 8:56pm



- LEGEND**
- 20 EXISTING MAJOR CONTOUR
 - 21 EXISTING MINOR CONTOUR
 - 20 PROPOSED MAJOR CONTOUR
 - 21 PROPOSED MINOR CONTOUR
 - UgB EXISTING SOILS BOUNDARY/TYPE
 - EXISTING ELECTRIC LINE
 - EXISTING TELECOMMUNICATION LINE
 - EXISTING SANITARY SEWER
 - EXISTING WATER MAIN
 - EXISTING STORM SEWER
 - EXISTING EDGE OF PAVEMENT
 - EXISTING BUILDING
 - EXISTING WETLANDS
 - EXISTING FEMA FLOODWAY
 - EXISTING FEMA 100-YR

- PCSM LEGEND**
- WQ SCM 3.6.7 WATER QUALITY FILTERS
 - SCM 3.4.4 REVEGETATION
 - PROJECT SITE BOUNDARY
 - LIMIT OF DISTURBANCE
 - PROPOSED RIP RAP APRON
 - SCM 3.8.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS
 - DISCHARGE POINTS/POINT OF INTEREST
 - PROPOSED OFF-SITE SUPPORT ACTIVITIES
 - PROPOSED BASIN PLUGS
 - EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM. (TOTAL AREA = 51.82 AC)
 - PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM
 - PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
 - PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
 - PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
 - DRAINAGE AREAS FOR SWALES
 - PROPOSED SWM BASIN

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELIED UPON BY USER. THIS PLAN IS BEING CONSIDERED OFFICIAL AND RELIED UPON BY USER WITHOUT THE HEREIN, MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.

DATE: 12/11/25

DAVID LEH
ENGINEER
PE049778E

REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER CODD LTR & TMP REVIEW LTR	10/22/25	DL
4	REV. PER CODD LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. PER CODD LTR	06/17/25	DL
2	REV. PER CODD LTR	05/23/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER CODD LTR & TMP REVIEW LTR	10/22/25	DL
4	REV. PER CODD LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. PER CODD LTR	06/17/25	DL
2	REV. PER CODD LTR	05/23/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

PCSM PLAN - AREA A2

EXTON PARK IMPROVEMENT PROJECT - PHASE 2

MEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

PROJECT NO.: 2307048

OWNERS INFO:
MEST WHITELAND TOWNSHIP
101 COMMERCE DRIVE
EXTON, PA 19341
610-363-9525

MUNICIPAL FILE NO.: 41-2-84.11

TAX MAP PARCEL NO.: 174.32 AC

TOTAL AREA: 174.32 AC

TOTAL LOTS: 1

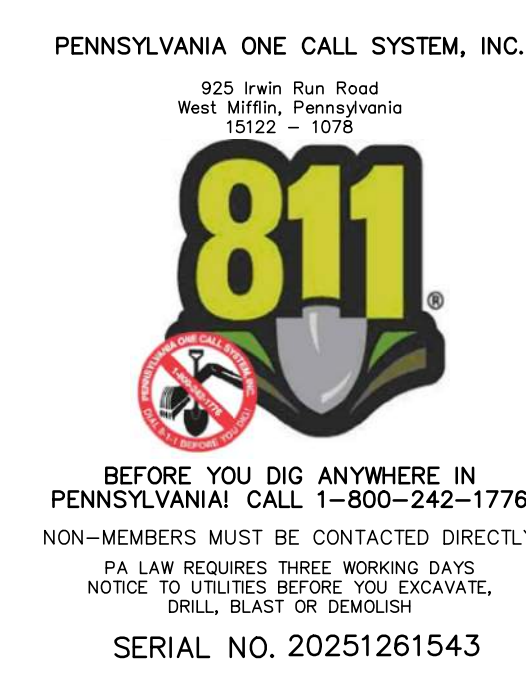
DATE: 02/13/25

SCALE: 1"=30'

DRAWN BY: BH

CHECKED BY: DL

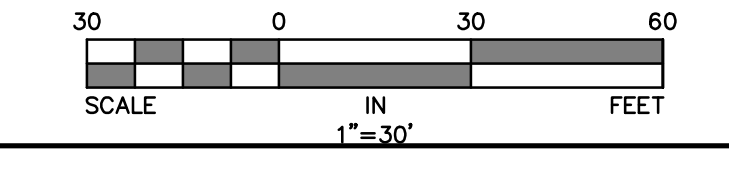
SHEET NO.: 40 OF 57



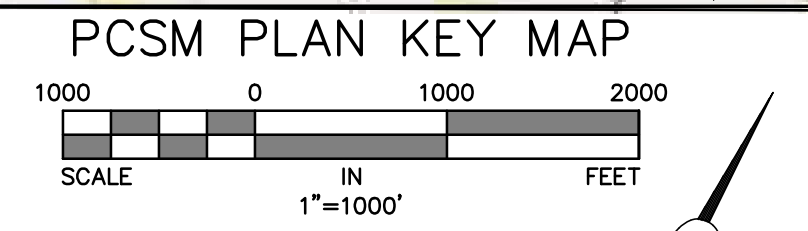
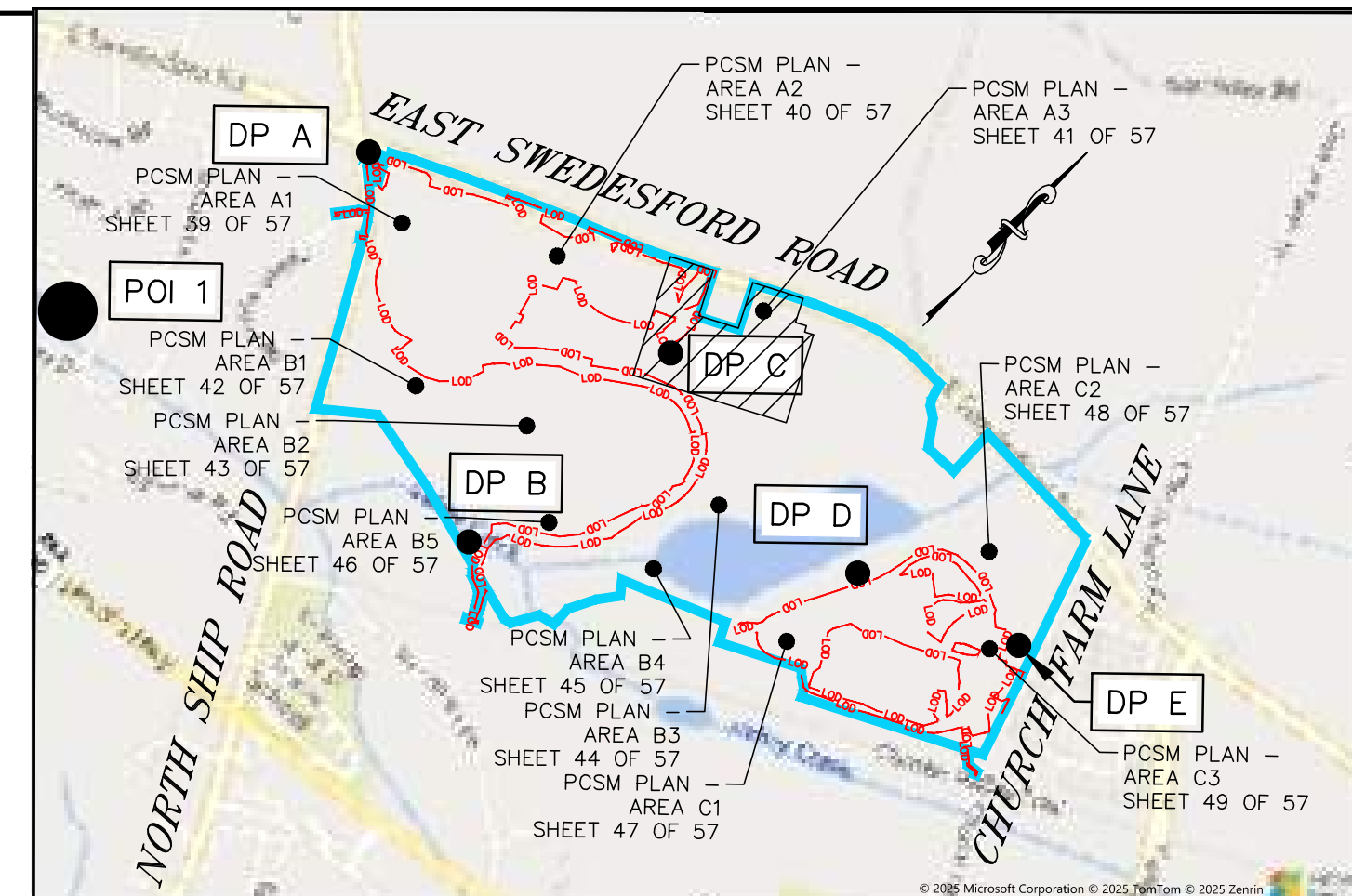
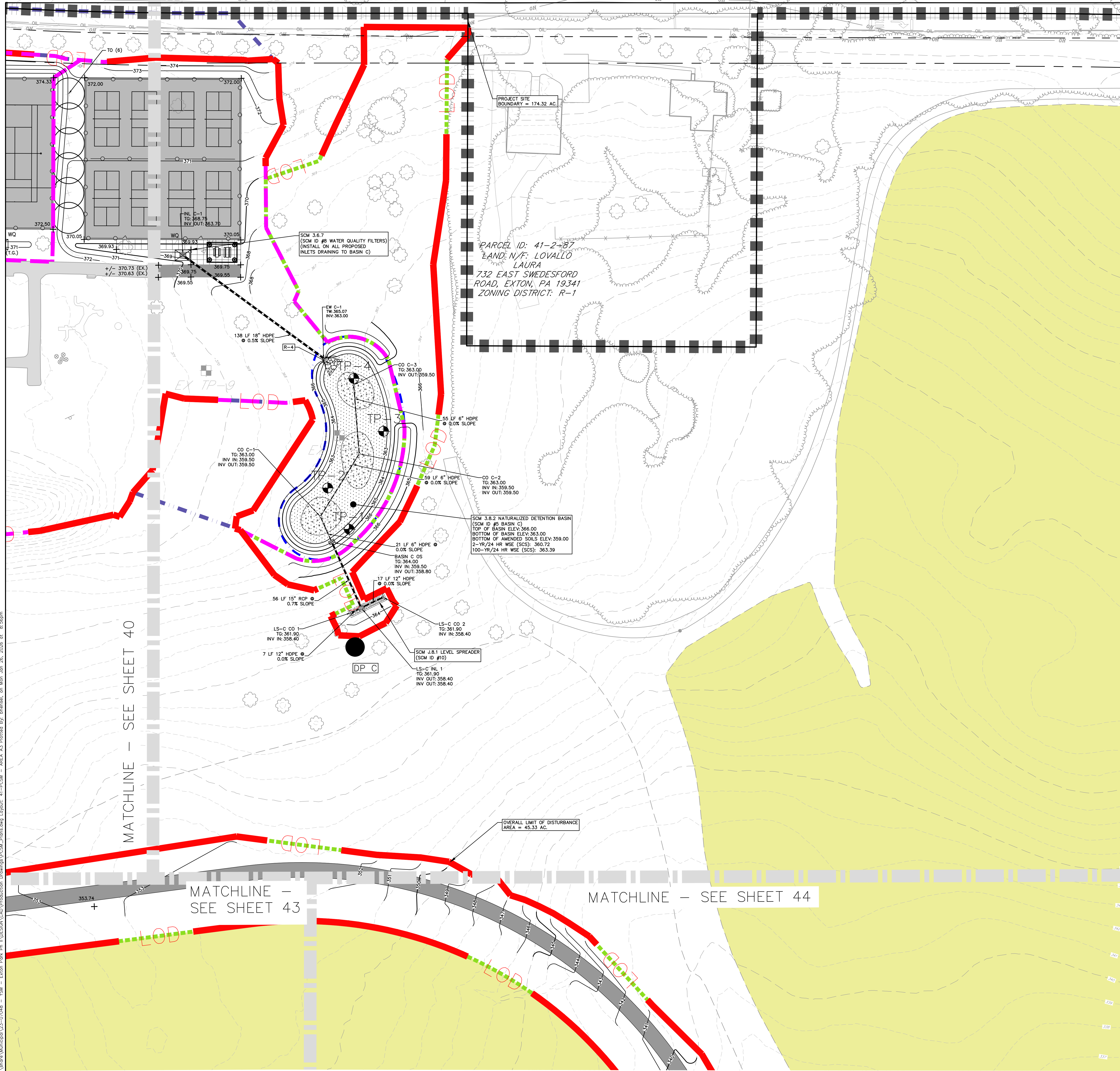
LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKETS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS; THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES, INC.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2018 PENNSYLVANIA ACT 50.

GILMORE & ASSOCIATES, INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.



N:\Yearra Municipal\23-07048 - YSM - Exton Park Ph II\DESIGN\CAD\Production Drawings\PCSM_Phans.dwg Layout: A1-PCSM - AREA A3 Plotted By: bhesnel, on Mon Jan 26, 2026 at 8:56pm



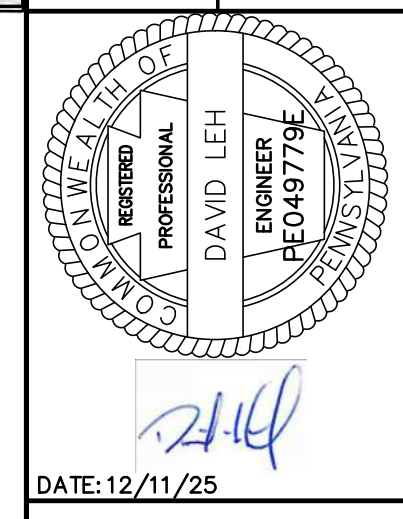
- LEGEND**
- - - 20 EXISTING MAJOR CONTOUR
 - - - 21 EXISTING MINOR CONTOUR
 - - - 20 PROPOSED MAJOR CONTOUR
 - - - 21 PROPOSED MINOR CONTOUR
 - - - Ugb EXISTING SOILS BOUNDARY/TYPE
 - - - EXISTING ELECTRIC LINE
 - - - EXISTING TELECOMMUNICATION LINE
 - - - EXISTING SANITARY SEWER
 - - - EXISTING WATER MAIN
 - - - EXISTING STORM SEWER
 - - - EXISTING EDGE OF PAVEMENT
 - - - EXISTING BUILDING
 - - - EXISTING WETLANDS
 - - - EXISTING FEMA FLOODWAY
 - - - EXISTING FEMA 100-YR

- PCSM LEGEND**
- WQ SCM 3.6.7 WATER QUALITY FILTERS
 - SCM 3.4.4 REVEGETATION
 - PROJECT SITE BOUNDARY
 - LIMIT OF DISTURBANCE
 - PROPOSED RIP RAP APRON
 - SCM 3.8.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS
 - DISCHARGE POINTS/POINT OF INTEREST
 - PROPOSED OFF-SITE SUPPORT ACTIVITIES
 - PROPOSED BASIN PLUGS
 - EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM. (TOTAL AREA = 51.92 AC)
 - PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM
 - PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
 - PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
 - PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
 - DRAINAGE AREAS FOR SWALES
 - PROPOSED SWM BASIN

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

100 WEST MAIN STREET SUITE 300, THIMPER, PA 19381
TEL: 610-353-9525 FAX: 610-353-9525
WWW.GILMORE-ASSOCIATES.COM

ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELEI UPON BY USER. THIS PLAN IS BEING CONSIDERED OFFICIAL AND RELEI UPON BY USER WITHOUT THE HEREIN, MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.
© COPYRIGHT 2024 GILMORE & ASSOCIATES, INC.



DATE: 12/11/25

REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER CODD REVIEW LTR	10/22/25	DL
4	REV. PER CODD LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. FOR CODD LTR	06/17/25	DL
2	REV. PER CODD LTR	05/23/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

SITE IMPROVEMENT PLANS

EXTON PARK IMPROVEMENT PROJECT - PHASE 2

WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

PCSM PLAN - AREA A3

PROJECT NO.: 2307048

OWNERS INFO:
WEST WHITELAND TOWNSHIP
101 COMMERCE DRIVE
EXTON, PA 19341
610-353-9525

MUNICIPAL FILE NO.:

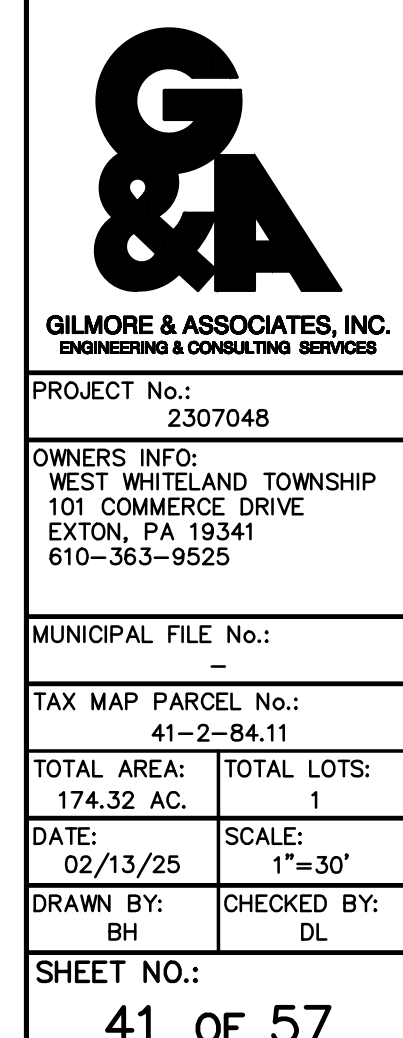
TAX MAP PARCEL NO.: 41-2-84.11

TOTAL AREA: 174.32 AC. TOTAL LOTS: 1

DATE: 02/13/25 SCALE: 1"=30'

DRAWN BY: BH CHECKED BY: DL

SHEET NO.: 41 OF 57

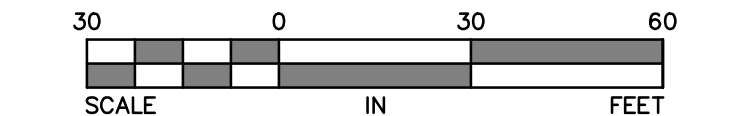


PENNSYLVANIA ONE CALL SYSTEM, INC.
925 Main Run Road
West 14th St., Pottsville, PA 17876
10122 - 1078

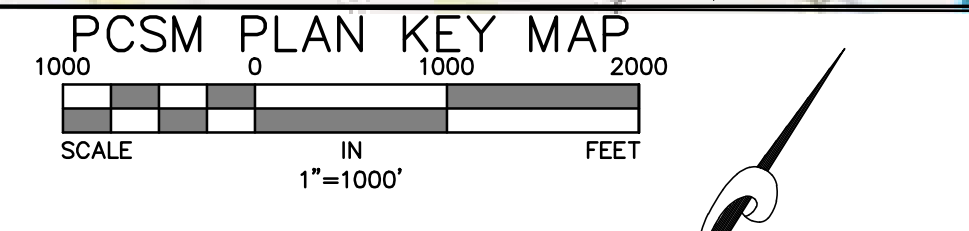
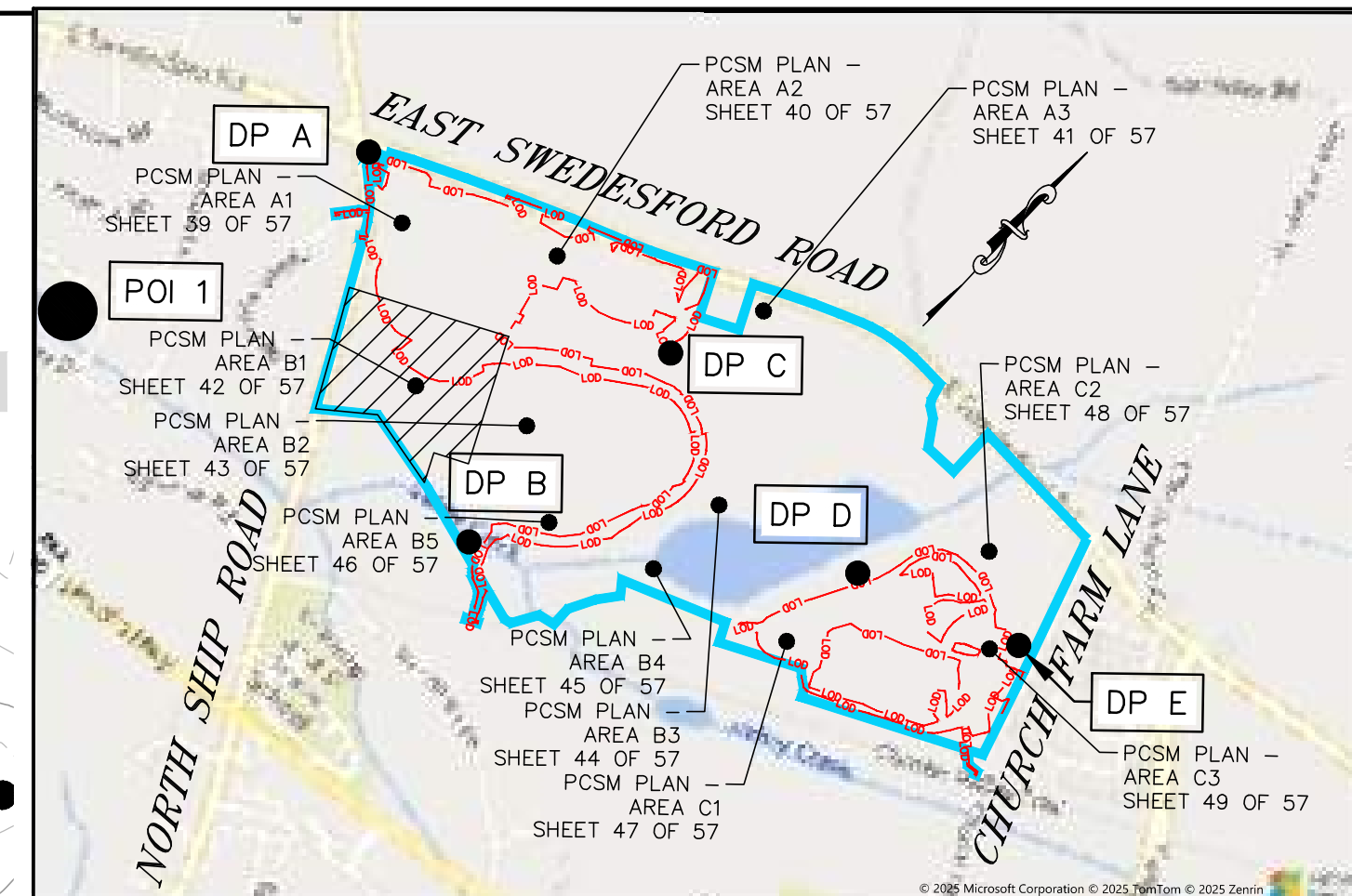
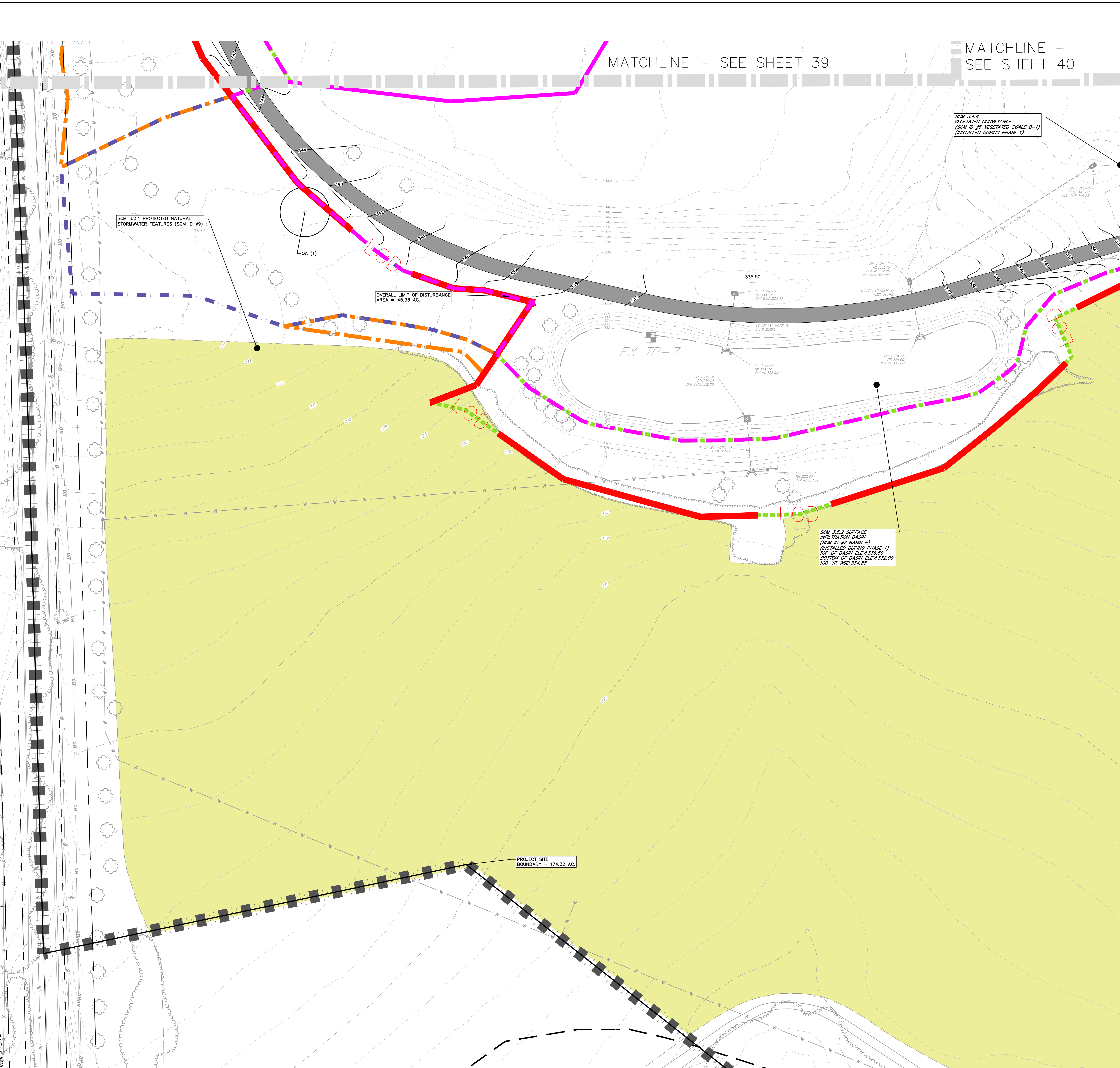
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1778 NON-MEMBERS MUST BE CONTACTED DIRECTLY PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH SERIAL NO. 20251261543

LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS; THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES, INC.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2018 PENNSYLVANIA ACT 50. GILMORE & ASSOCIATES, INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.



N:\Vehara\23-07048 - YSM - Exton Park Ph II\DESIGN\CAD\Production Drawings\PCSM_Plans.dwg Layout: 42-PCSM - AREA B1 Plotted By: bhensel, on Mon Jan 26, 2026 at 8:56pm



LEGEND

---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	EXISTING SOILS BOUNDARY/TYPE
---	EXISTING ELECTRIC LINE
---	EXISTING TELECOMMUNICATION LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING STORM SEWER
---	EXISTING EDGE OF PAVEMENT
---	EXISTING BUILDING
---	EXISTING WETLANDS
---	EXISTING FEMA FLOODWAY
---	EXISTING FEMA 100-YR

PCSM LEGEND

WQ	SCM 3.6.7 WATER QUALITY FILTERS
⊙	SCM 3.4.4 REVEGETATION
---	PROJECT SITE BOUNDARY
---	LIMIT OF DISTURBANCE
---	PROPOSED RIP RAP APRON
---	SCM 3.8.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS
⊙	DISCHARGE POINTS/POINT OF INTEREST
---	PROPOSED OFF-SITE SUPPORT ACTIVITIES
---	PROPOSED BASIN PLUGS
---	EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM. (TOTAL AREA = 51.82 AC)
---	PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
---	PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
---	DRAINAGE AREAS FOR SWALES
---	PROPOSED SWM BASIN

MATCHLINE - SEE SHEET 43

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
100 WEST MAIN STREET SUITE 300, THIMPKOPPE, PA 19381
PH: 610-666-6666 FAX: 610-666-6667
WWW.GILMORE-ASSOCIATES.COM
ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELIED UPON BY USER. THIS PLAN IS BEING PROVIDED FOR INFORMATION ONLY. NO GUARANTEE IS MADE HEREIN. MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN PERMISSION OF GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.
© COPYRIGHT 2024 GILMORE & ASSOCIATES, INC.

DAVID LEH
REGISTERED PROFESSIONAL ENGINEER
PC049778
DATE: 12/11/25

REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER COOD REVIEW LTR	10/22/25	DL
4	REV. PER COOD LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. FOR COOD LTR	06/17/25	DL
2	REV. FOR COOD LTR	05/23/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

EXTON PARK IMPROVEMENT PROJECT - PHASE 2
SITE IMPROVEMENT PLANS
WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA
PCSM PLAN - AREA B1

811
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776
NON-MEMBERS MUST BE CONTACTED DIRECTLY
PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH
SERIAL NO. 20251261543

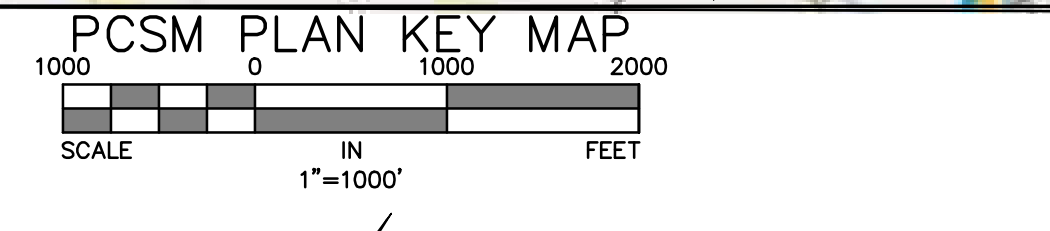
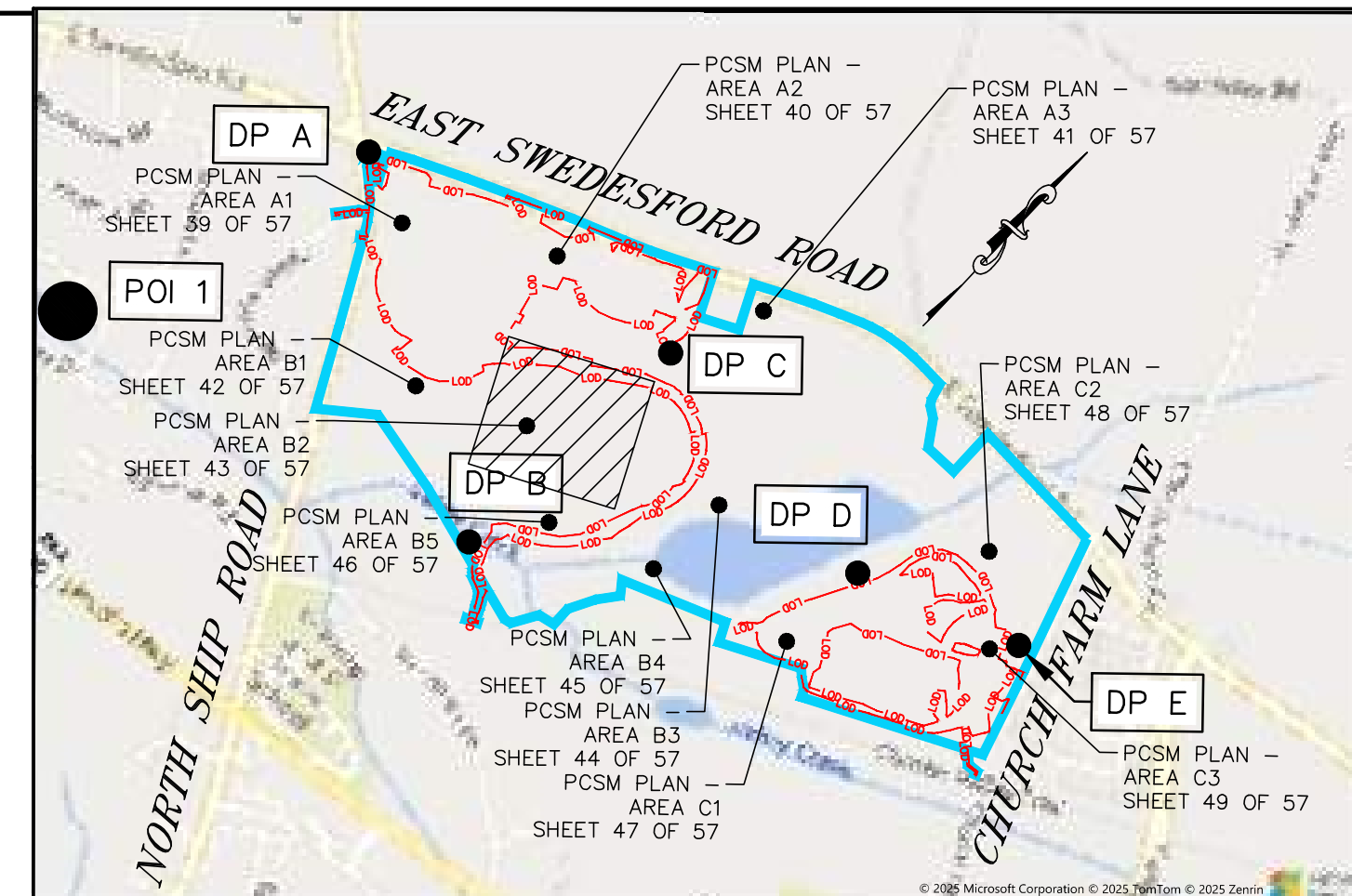
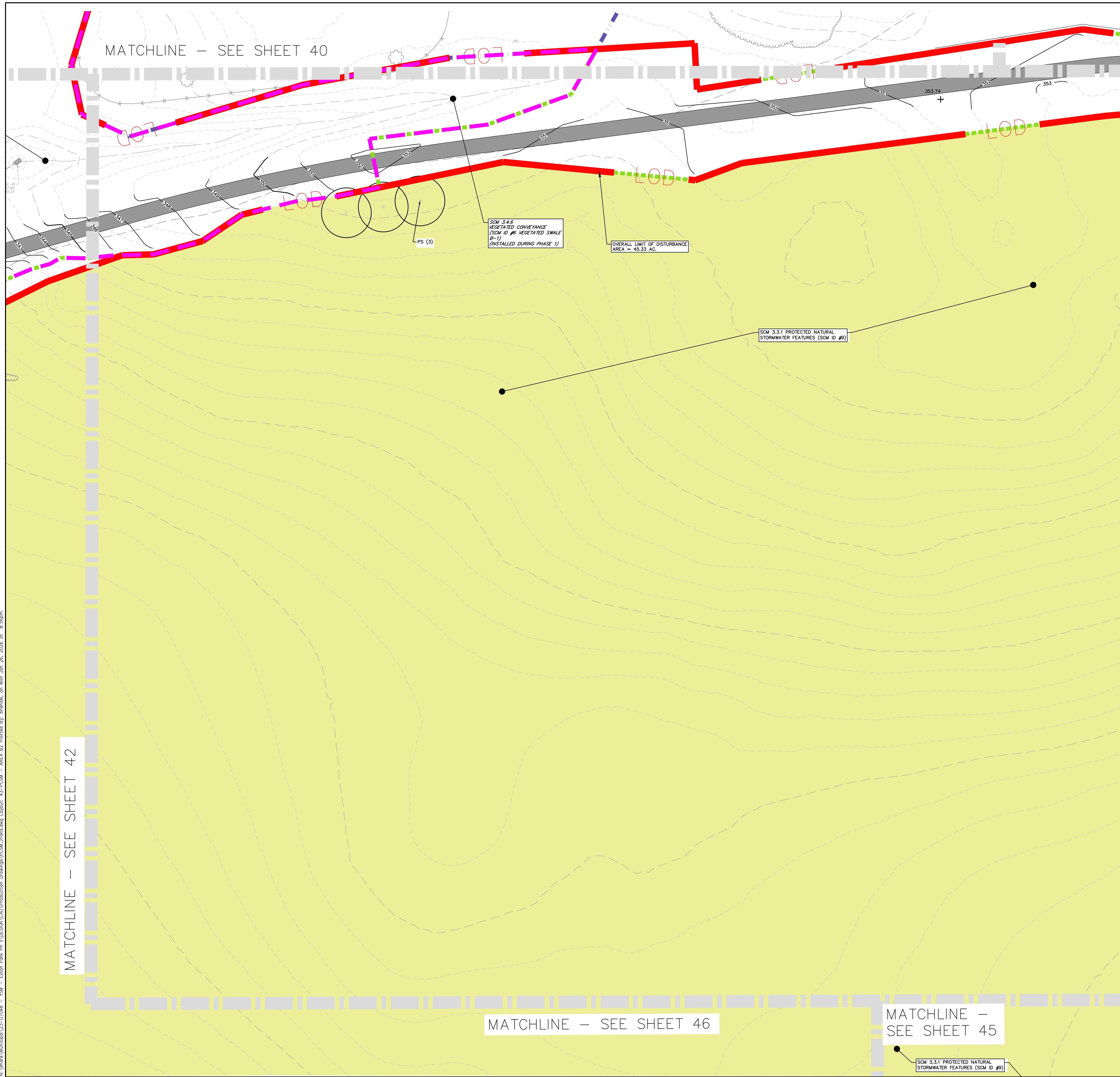
LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS; THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES, INC.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2019 PENNSYLVANIA ACT 50. GILMORE & ASSOCIATES, INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
PROJECT No.: 2307048
OWNERS INFO:
WEST WHITELAND TOWNSHIP
101 COMMERCE DRIVE
EXTON, PA 19341
610-363-9525
MUNICIPAL FILE No.:
41-2-84.11
TAX MAP PARCEL No.:
174.32 AC.
TOTAL LOTS:
1
DATE:
02/13/25
SCALE:
1"=30'
DRAWN BY:
BH
CHECKED BY:
DL
SHEET NO.:
42 OF 57

NOT APPROVED FOR CONSTRUCTION

N:\ybarra\Municipal\23-07048 - YSM - Exton Park Ph II\DESIGN\CAD\Production Drawings\PCSM_Plans.dwg Layout: 43-PCSM - AREA B2 Plotted By: bhenzel, on Mon Jan 26, 2026 at 8:56pm



LEGEND

20	EXISTING MAJOR CONTOUR
21	EXISTING MINOR CONTOUR
20	PROPOSED MAJOR CONTOUR
21	PROPOSED MINOR CONTOUR
UgB	EXISTING SOILS BOUNDARY/TYPE
---	EXISTING ELECTRIC LINE
---	EXISTING TELECOMMUNICATION LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING STORM SEWER
---	EXISTING EDGE OF PAVEMENT
---	EXISTING BUILDING
---	EXISTING WETLANDS
---	EXISTING FEMA FLOODWAY
---	EXISTING FEMA 100-YR

PCSM LEGEND

WQ	SCM 3.6.7 WATER QUALITY FILTERS
⊙	SCM 3.4.4 REVEGETATION
---	PROJECT SITE BOUNDARY
---	LIMIT OF DISTURBANCE
---	PROPOSED RIP RAP APRON
---	SCM 3.8.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS
●	DISCHARGE POINTS/POINT OF INTEREST
---	PROPOSED OFF-SITE SUPPORT ACTIVITIES
---	PROPOSED BASIN PLUGS
---	EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM. (TOTAL AREA = 51.82 AC)
---	PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
---	PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
---	DRAINAGE AREAS FOR SWALES
---	PROPOSED SWM BASIN

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
100 WEST MAIN STREET SUITE 300, THOMPSON, PA 17090-1000
PH: 717-866-6666 FAX: 717-866-6667
WWW.GILMORE-ASSOCIATES.COM

DAVID LEH
REGISTERED PROFESSIONAL ENGINEER
PE#049778
DATE: 12/11/25

REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER COOD LTR & TMP REVIEW LTR	10/22/25	DL
4	REV. PER COOD LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. FOR COOD LTR	06/17/25	DL
2	REV. PER COOD LTR	05/23/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

EXTON PARK IMPROVEMENT PROJECT - PHASE 2
SITE IMPROVEMENT PLANS
WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA
PCSM PLAN - AREA B2

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
PROJECT No.: 2307048
OWNERS INFO:
WEST WHITELAND TOWNSHIP
101 COMMERCE DRIVE
EXTON, PA 19341
610-363-9525
MUNICIPAL FILE No.:
TAX MAP PARCEL No.: 41-2-84.11
TOTAL AREA: 174.32 AC. TOTAL LOTS: 1
DATE: 02/13/25 SCALE: 1"=30'
DRAWN BY: BH CHECKED BY: DL
SHEET NO.: 43 OF 57

811
PENNSYLVANIA ONE CALL SYSTEM, INC.
925 Train Run Road
West Mills, Pennsylvania
19382 - 1076
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH SERIAL NO. 20251261543

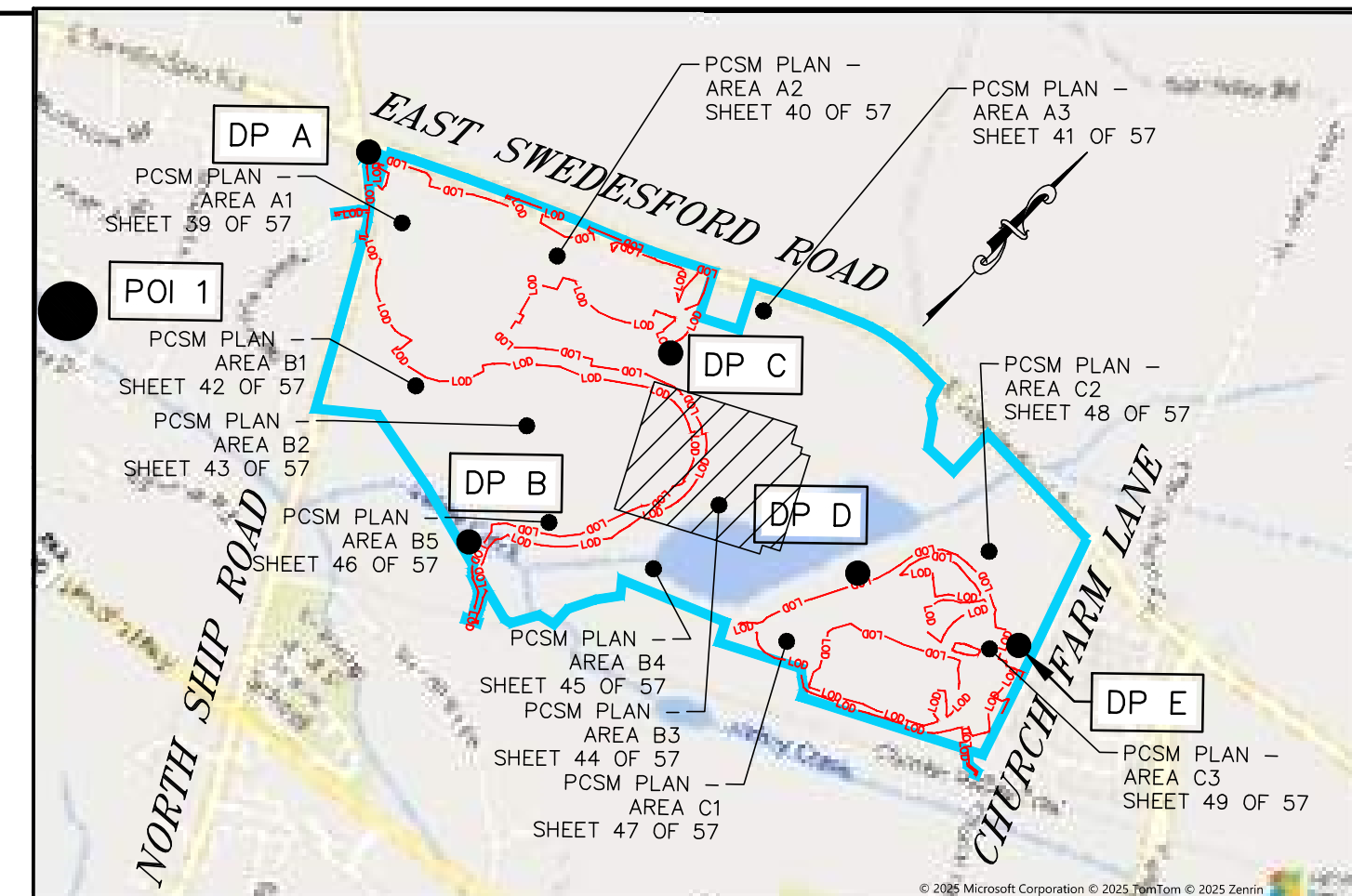
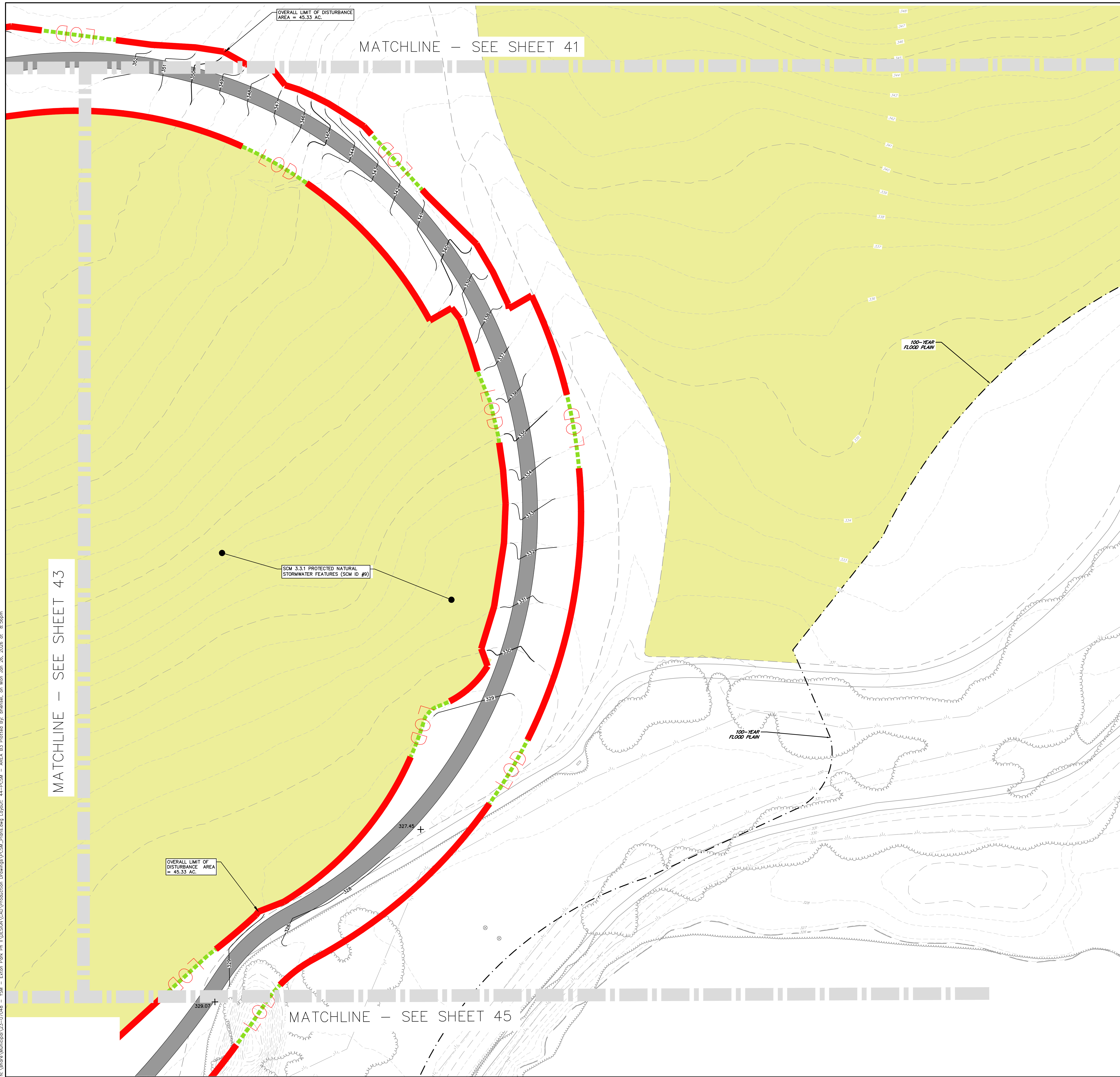
LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS; THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES INC.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2019 PENNSYLVANIA ACT 50. GILMORE & ASSOCIATES INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.

SCALE 1"=30'

NOT APPROVED FOR CONSTRUCTION

N:\yehara\Municipal\23-07048 - YSM - Exton Park Ph II\DESIGN\CAD\Production Drawings\PCSM_Plans.dwg, Layout: 44-PCSM - AREA B3, Plotted By: bheness, on Mon Jan 26, 2026 at 8:56pm



LEGEND

20	EXISTING MAJOR CONTOUR
21	EXISTING MINOR CONTOUR
20	PROPOSED MAJOR CONTOUR
21	PROPOSED MINOR CONTOUR
UgB	EXISTING SOILS BOUNDARY/TYPE
---	EXISTING ELECTRIC LINE
---	EXISTING TELECOMMUNICATION LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING STORM SEWER
---	EXISTING EDGE OF PAVEMENT
---	EXISTING BUILDING
---	EXISTING WETLANDS
---	EXISTING FEMA FLOODWAY
---	EXISTING FEMA 100-YR

PCSM LEGEND

WQ	SCM 3.6.7 WATER QUALITY FILTERS
⊕	SCM 3.4.4 REVEGETATION
---	PROJECT SITE BOUNDARY
---	LIMIT OF DISTURBANCE
---	PROPOSED RIP RAP APRON
---	SCM 3.6.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS
●	DISCHARGE POINTS/POINT OF INTEREST
---	PROPOSED OFF-SITE SUPPORT ACTIVITIES
---	PROPOSED BASIN PLUGS
---	EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM (TOTAL AREA = 51.82 AC)
---	PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
---	PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
---	DRAINAGE AREAS FOR SWALES
---	PROPOSED SWM BASIN

811

BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH SERIAL NUMBER 20251261543

LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS. THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES INC.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2019 PENNSYLVANIA ACT 50. GILMORE & ASSOCIATES INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.

SCALE 1"=30'

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

101 WEST MAIN STREET SUITE 200, THOMPSON, PA 17090-1000
PH: 717-866-6666 FAX: 717-866-6667 WWW.GILMORE-AND-ASSOCIATES.COM

ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELIED UPON BY USER. THIS PLAN IS BEING SUBMITTED FOR REVIEW AND RECORD. NO REVISIONS, MODIFICATIONS, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.

© COPYRIGHT 2024 GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.

DAVID LEH
PROFESSIONAL ENGINEER
PE049778

DATE: 12/11/25

REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER COOD LTR & TMP REVIEW LTR	10/22/25	DL
4	REV. PER COOD LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. FOR COOD LTR	06/17/25	DL
2	REV. PER COOD LTR	05/23/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

EXTON PARK IMPROVEMENT PROJECT - PHASE 2

SITE IMPROVEMENT PLANS

WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

PCSM PLAN - AREA B3

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

PROJECT No.: 2307048

OWNERS INFO:
WEST WHITELAND TOWNSHIP
101 COMMERCE DRIVE
EXTON, PA 19341
610-353-9525

MUNICIPAL FILE No.: 41-2-84.11

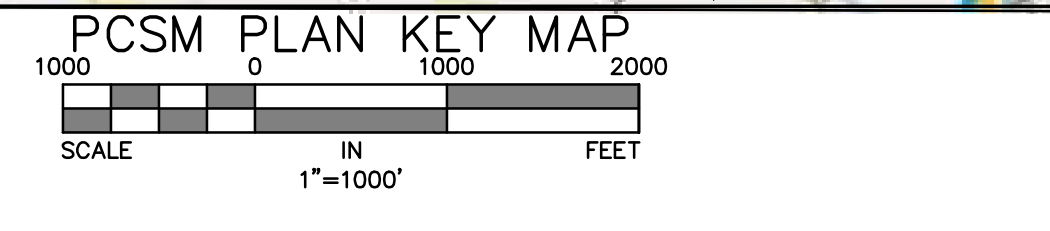
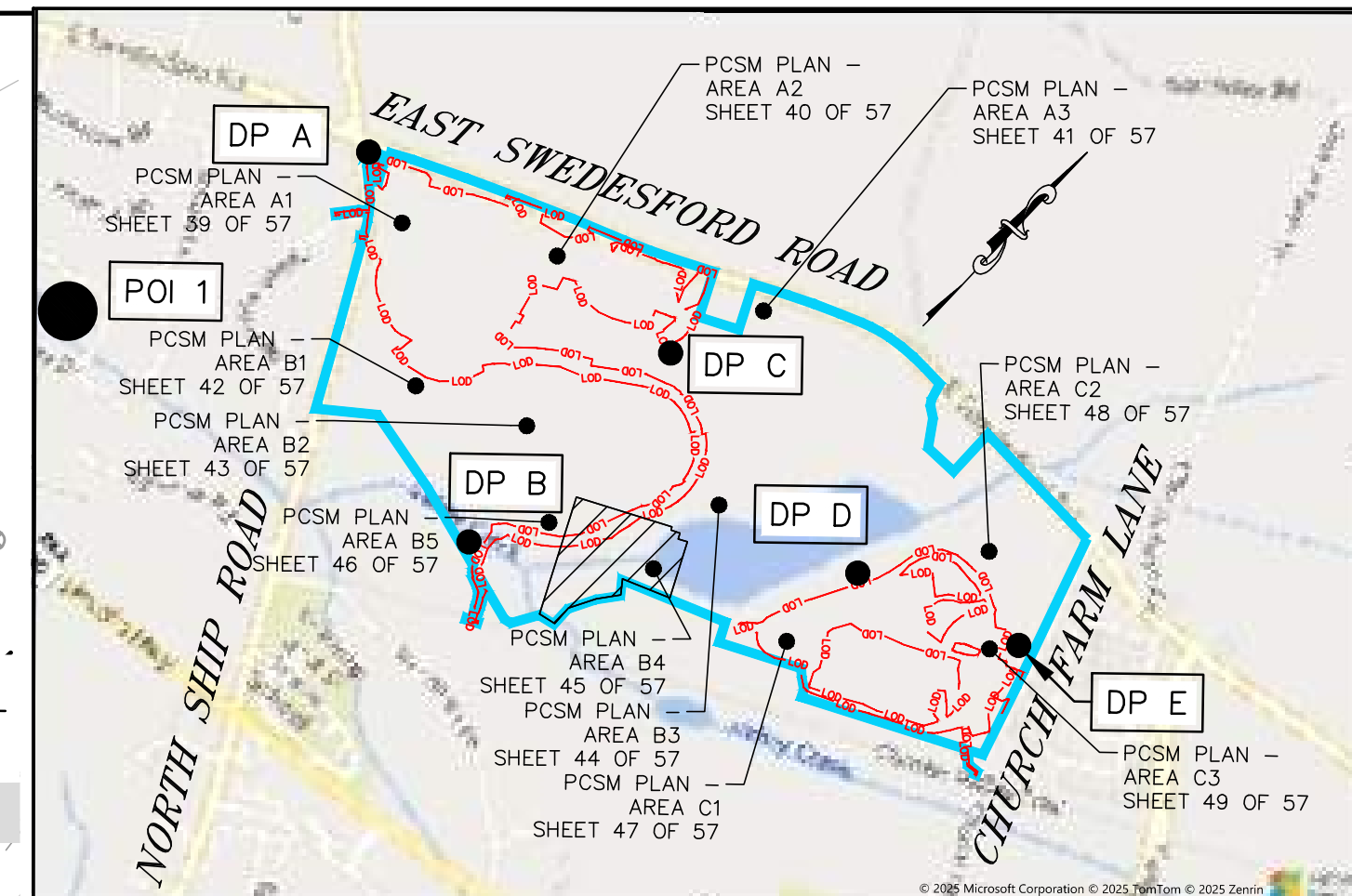
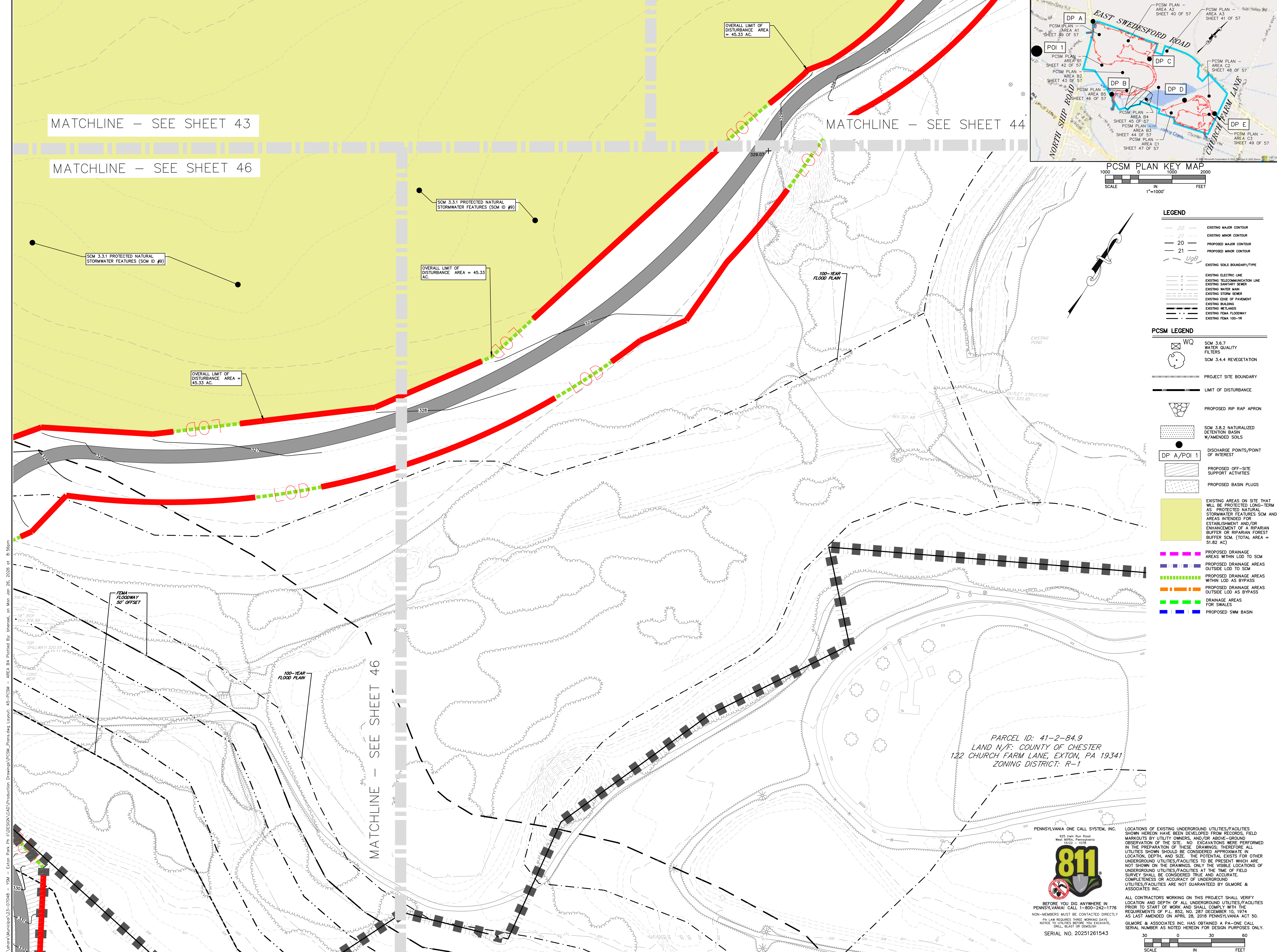
TAX MAP PARCEL No.: 174.32 AC

TOTAL LOTS: 1

DATE: 02/13/25 SCALE: 1"=30'

DRAWN BY: BH CHECKED BY: DL

SHEET NO.: 44 OF 57



LEGEND

20	EXISTING MAJOR CONTOUR
21	EXISTING MINOR CONTOUR
20	PROPOSED MAJOR CONTOUR
21	PROPOSED MINOR CONTOUR
UgB	EXISTING SOILS BOUNDARY/TYPE
---	EXISTING ELECTRIC LINE
---	EXISTING TELECOMMUNICATION LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING STORM SEWER
---	EXISTING EDGE OF PAVEMENT
---	EXISTING BUILDING
---	EXISTING WETLANDS
---	EXISTING FEMA FLOODWAY
---	EXISTING FEMA 100-YR

PCSM LEGEND

WQ	SCM 3.6.7 WATER QUALITY FILTERS
SCM 3.4.4	SCM 3.4.4 VEGETATION
---	PROJECT SITE BOUNDARY
---	LIMIT OF DISTURBANCE
---	PROPOSED RIP RAP APRON
---	SCM 3.8.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS
DP A/POI 1	DISCHARGE POINTS/POINT OF INTEREST
---	PROPOSED OFF-SITE SUPPORT ACTIVITIES
---	PROPOSED BASIN PLUGS
---	EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM (TOTAL AREA = 51.82 AC.)
---	PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
---	PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
---	DRAINAGE AREAS FOR SWALES
---	PROPOSED SWM BASIN

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

1841 MARKET STREET SUITE 300, THIMBLE, PA 17093-0300
PH: 717-338-6666 FAX: 717-338-6667
WWW.GILMORE-ASSOCIATES.COM

ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELIED UPON BY USER. THIS PLAN IS HEREBY MODIFIED, REVISION, PUBLICATION OR USE WITHOUT THE SIGNATURE OF GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.
© COPYRIGHT 2025 GILMORE & ASSOCIATES, INC.

DAVID LEH
REGISTERED PROFESSIONAL ENGINEER
PE049778

DATE: 12/11/25

REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER CODL LTR & TMP REVIEW LTR	10/22/25	DL
4	REV. PER CODL LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. PER CODL LTR	06/17/25	DL
2	REV. PER CODL LTR	05/23/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

EXTON PARK IMPROVEMENT PROJECT - PHASE 2

SITE IMPROVEMENT PLANS

WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

PCSM PLAN - AREA B4

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

PROJECT No.: 2307048

OWNERS INFO:
WEST WHITELAND TOWNSHIP
101 COMMERCE DRIVE
EXTON, PA 19341
610-363-9525

MUNICIPAL FILE No.:
41-2-84.11

TAX MAP PARCEL No.:
174.32 AC.

TOTAL AREA: 174.32 AC. TOTAL LOTS: 1

DATE: 02/13/25 SCALE: 1"=30'

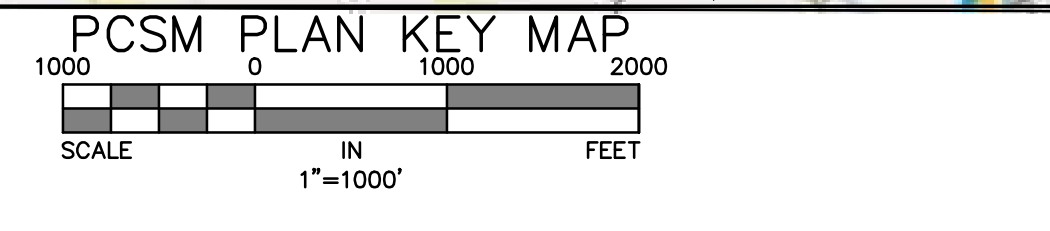
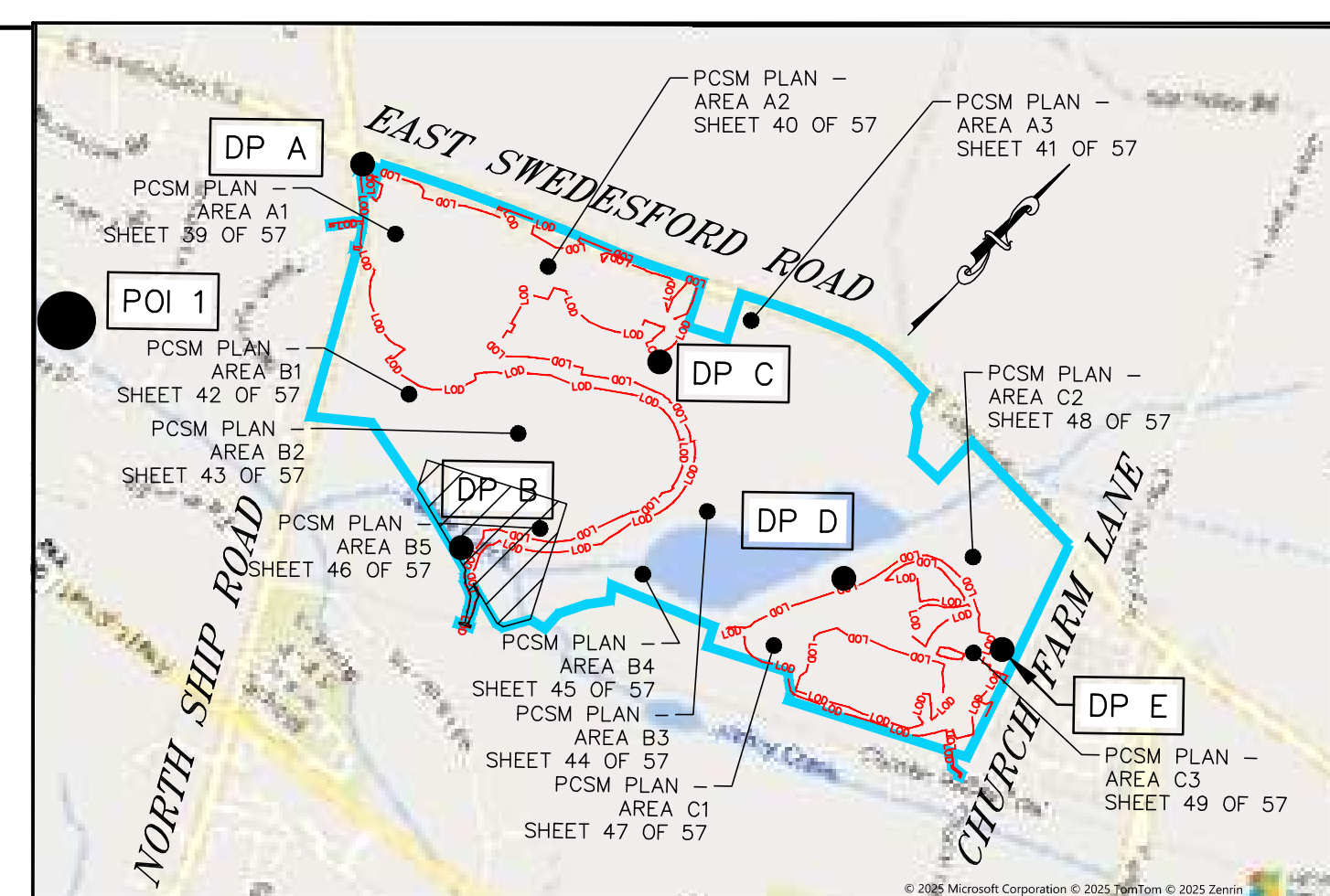
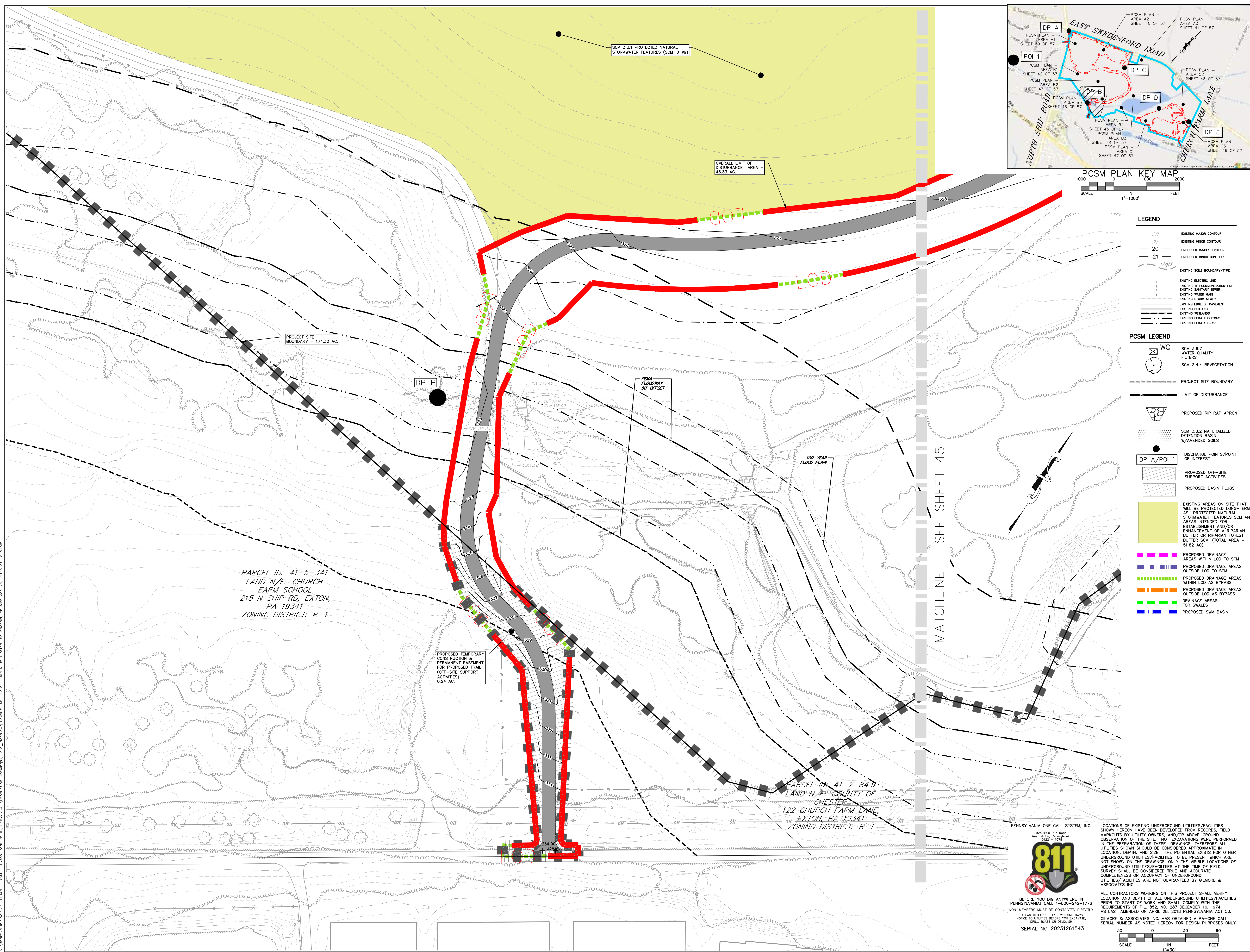
DRAWN BY: BH CHECKED BY: DL

SHEET NO.: 45 OF 57

N:\Users\municipal\3-07048 - YSM - Exton Park Pa.\DESIGN\CAD\Production Drawings\PCSM_Plans.dwg, Layout: 45-PCSM - AREA B4 Plotted By: bhenesi, on Mon Jan 26, 2026 at 8:56pm

NOT APPROVED FOR CONSTRUCTION

N:\Yearo Municipal\23-07048 - YSM - Exton Park Ph II\DESIGN\CAD\Production Drawings\PCSM_Plans.dwg, Layout: 46-PCSM - AREA B5 Plotted By: bhenzel, on Mon Jan 26, 2026 at 8:57am



LEGEND

20	EXISTING MAJOR CONTOUR
21	EXISTING MINOR CONTOUR
20	PROPOSED MAJOR CONTOUR
21	PROPOSED MINOR CONTOUR
UgB	EXISTING SOILS BOUNDARY/TYPE
---	EXISTING ELECTRIC LINE
---	EXISTING TELECOMMUNICATION LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING STORM SEWER
---	EXISTING EDGE OF PAVEMENT
---	EXISTING BUILDING
---	EXISTING WETLANDS
---	EXISTING FEMA FLOODWAY
---	EXISTING FEMA 100-YR

PCSM LEGEND

WQ	SCM 3.6.7 WATER QUALITY FILTERS
---	SCM 3.4.4 REVEGETATION
---	PROJECT SITE BOUNDARY
---	LIMIT OF DISTURBANCE
---	PROPOSED RIP RAP APRON
---	SCM 3.8.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS
●	DISCHARGE POINTS/POINT OF INTEREST
---	PROPOSED OFF-SITE SUPPORT ACTIVITIES
---	PROPOSED BASIN PLUGS
---	EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM. (TOTAL AREA = 51.82 AC.)
---	PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
---	PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
---	DRAINAGE AREAS FOR SWALES
---	PROPOSED SWM BASIN

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
101 WEST MAIN STREET, SUITE 200, THIMPER, PA 19380-1000
PH: 610-333-9525 FAX: 610-333-9525
WWW.GILMORE-ASSOCIATES.COM
ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELEIED UPON. THIS PLAN IS THE PROPERTY OF GILMORE & ASSOCIATES, INC. NO REPRODUCTION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN PERMISSION OF GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.
© COPYRIGHT 2024 GILMORE & ASSOCIATES, INC.

DAVID LEH
REGISTERED PROFESSIONAL ENGINEER
PC049778
DATE: 12/11/25

REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER CODD REVIEW LTR	10/22/25	DL
4	REV. PER CODD LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. FOR CODD LTR	06/17/25	DL
2	REV. PER CODD LTR	05/23/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

SITE IMPROVEMENT PLANS
EXTON PARK IMPROVEMENT PROJECT - PHASE 2
WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA
PCSM PLAN - AREA B5

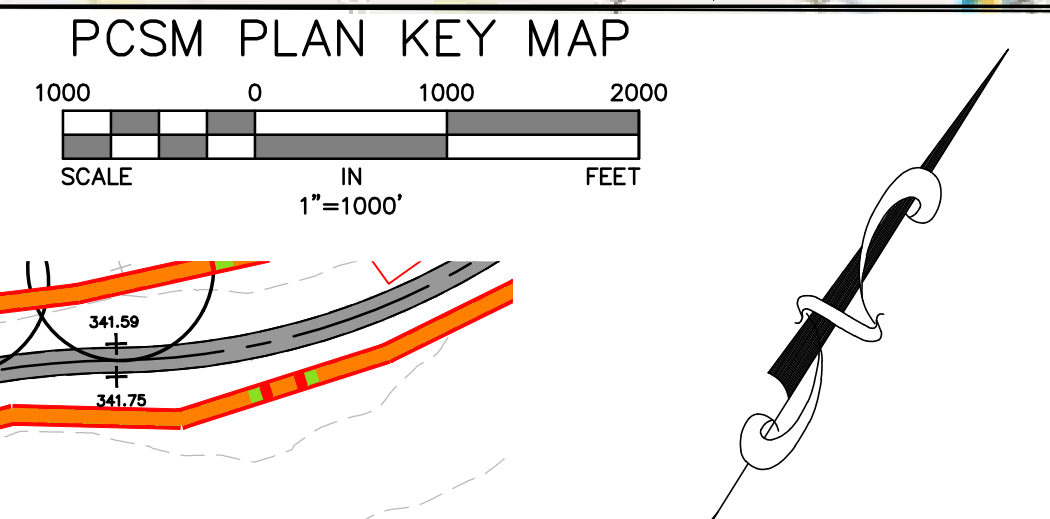
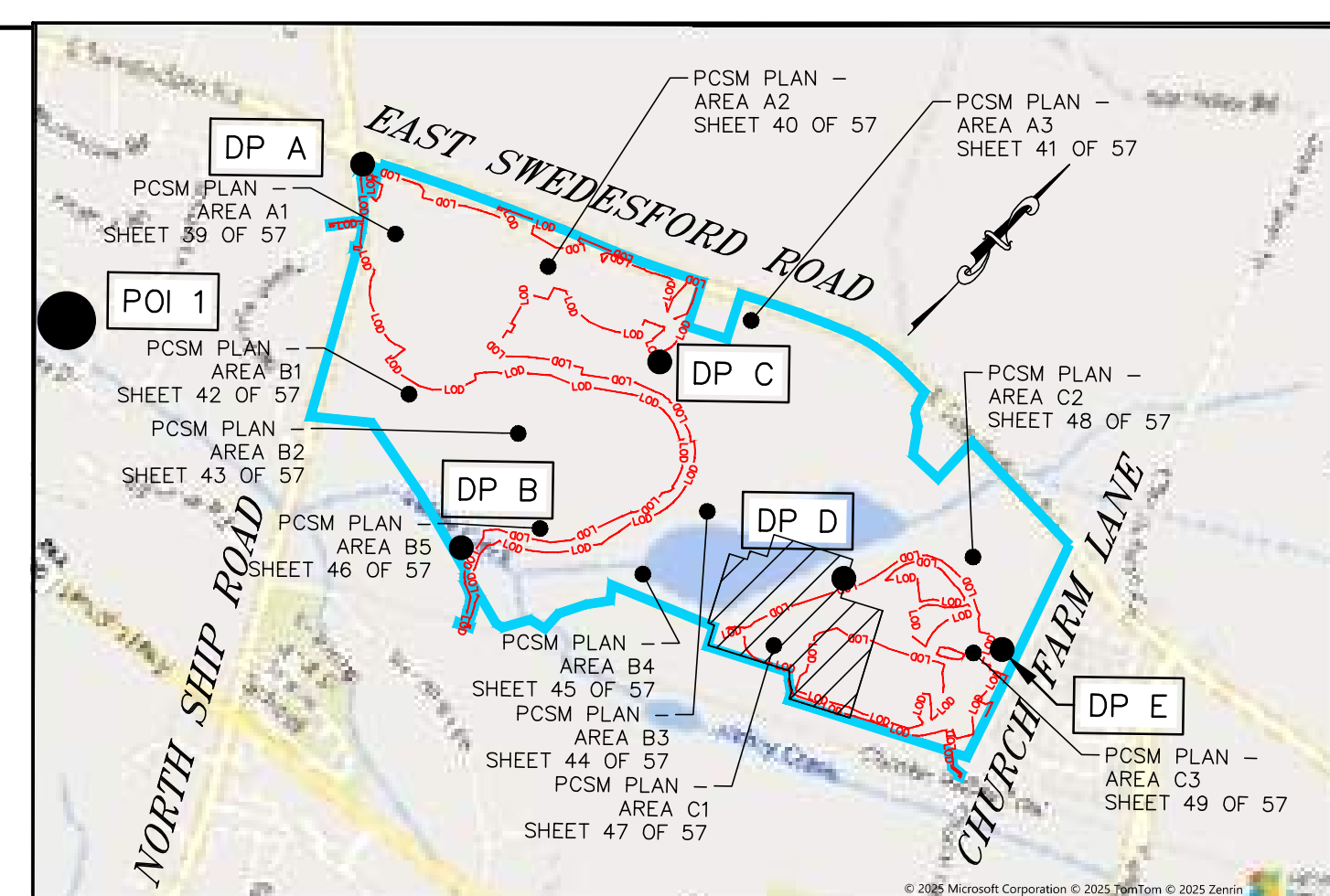
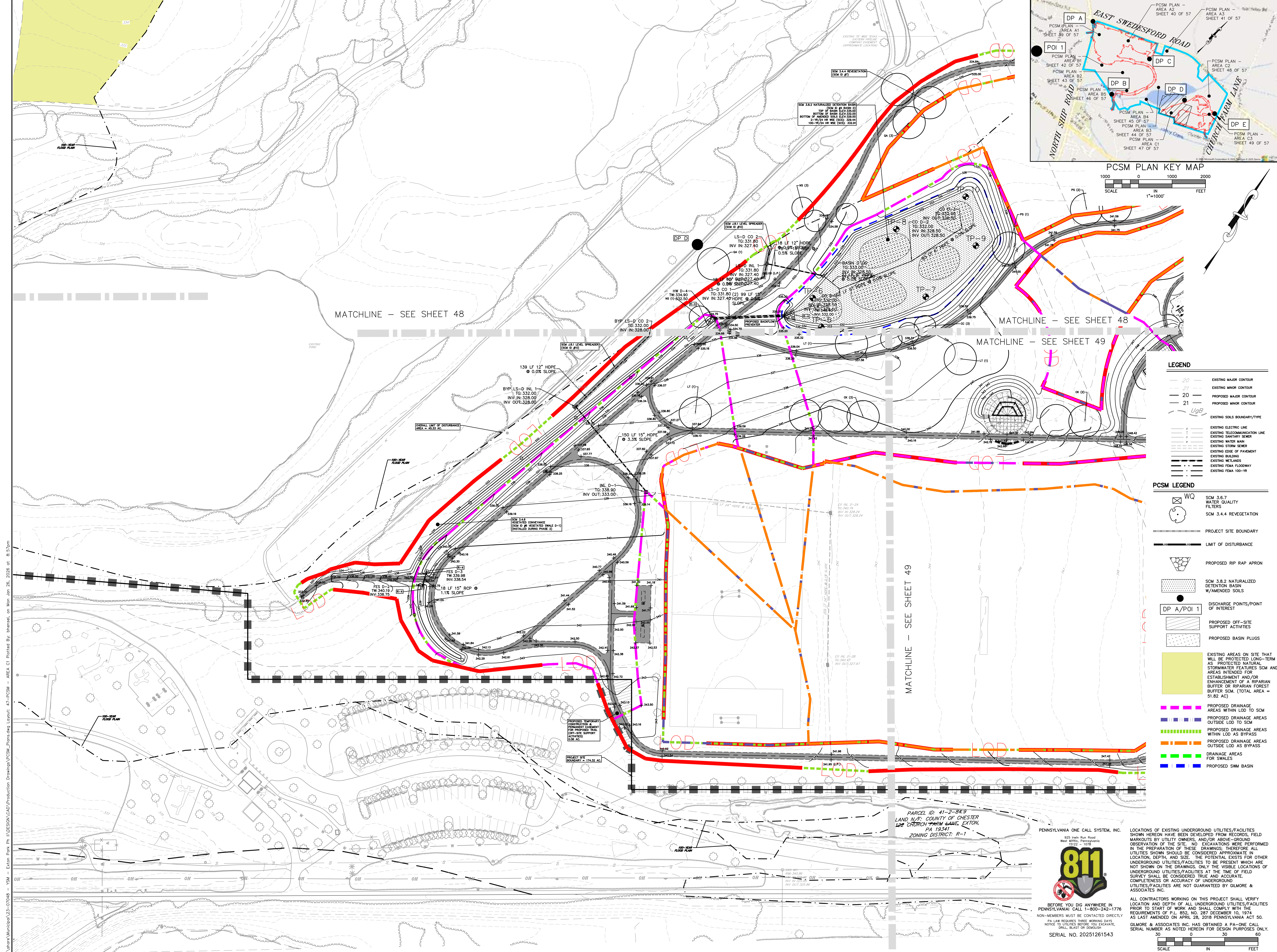
GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
PROJECT No.: 2307048
OWNERS INFO: WEST WHITELAND TOWNSHIP
101 COMMERCE DRIVE
EXTON, PA 19341
610-333-9525
MUNICIPAL FILE No.:
TAX MAP PARCEL No.: 41-2-84.11
TOTAL AREA: 174.32 AC. TOTAL LOTS: 1
DATE: 02/13/25 SCALE: 1"=30'
DRAWN BY: BH CHECKED BY: DL
SHEET NO.: 46 OF 57

811
PENNSYLVANIA ONE CALL SYSTEM, INC.
925 Train Run Road
West White Land Township
19322 - 1078
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH SERIAL NO. 20251261543

LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS. THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES, INC.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2019 PENNSYLVANIA ACT 50. GILMORE & ASSOCIATES, INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.

SCALE 1"=30' FEET



LEGEND

20	EXISTING MAJOR CONTOUR
21	EXISTING MINOR CONTOUR
20	PROPOSED MAJOR CONTOUR
21	PROPOSED MINOR CONTOUR
UgB	PROPOSED SOILS BOUNDARY/TYPE
---	EXISTING ELECTRIC LINE
---	EXISTING TELECOMMUNICATION LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING STORM SEWER
---	EXISTING EDGE OF PAVEMENT
---	EXISTING BUILDING
---	EXISTING WETLANDS
---	EXISTING FEMA FLOODWAY
---	EXISTING FEMA 100-YR

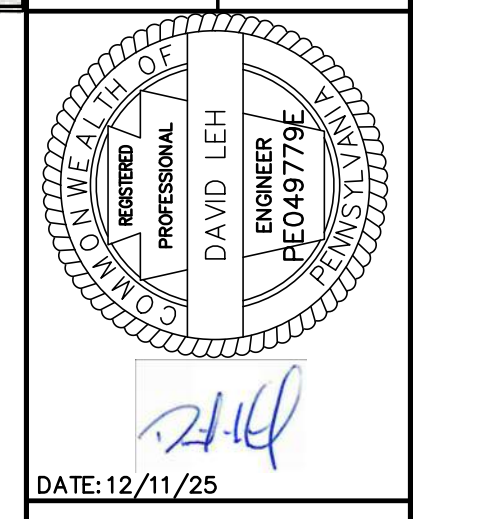
PCSM LEGEND

WQ	SCM 3.6.7 WATER QUALITY FILTERS
SCM 3.4.4	SCM 3.4.4 VEGETATION
---	PROJECT SITE BOUNDARY
---	LIMIT OF DISTURBANCE
---	PROPOSED RIP RAP APRON
---	SCM 3.8.2 NATURALIZED DETENTION BASIN W/AMENDED SOILS
DP A/POI 1	DISCHARGE POINTS/POINT OF INTEREST
---	PROPOSED OFF-SITE SUPPORT ACTIVITIES
---	PROPOSED BASIN PLUGS
---	EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM (TOTAL AREA = 51.82 AC)
---	PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
---	PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
---	PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
---	DRAINAGE AREAS FOR SWALES
---	PROPOSED SCM BASIN

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELEI UPON BY USER. THIS PLAN IS THE PROPERTY OF GILMORE & ASSOCIATES, INC. NO REPRODUCTION, HECKEN, MODIFICATION, REVISION, PUBLICATION OR USE WITHOUT THE WRITTEN CONSENT OF GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.

DATE: 12/11/25



REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING	12/11/25	DL
5	REV. PER CODE REVIEW LTR	10/22/25	DL
4	REV. PER CODE LTR & TMP REVIEW LTR	09/15/25	DL
3	REV. FOR LODD LTR	06/17/25	DL
2	REV. PER CODE LTR	05/07/25	DL
1	REV. PER TMP REVIEW LTR	05/07/25	DL

REVISIONS

NO.	DATE	DESCRIPTION
1	05/07/25	REV. PER TMP REVIEW LTR
2	05/07/25	REV. PER CODE LTR
3	06/17/25	REV. FOR LODD LTR
4	09/15/25	REV. PER CODE LTR & TMP REVIEW LTR
5	10/22/25	REV. PER CODE REVIEW LTR
6	12/11/25	REV. PER PLAN RECORDING

EXTON PARK IMPROVEMENT PROJECT - PHASE 2

PCSM PLAN - AREA C1

WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

PROJECT NO.: 2307048

OWNERS INFO:
WEST WHITELAND TOWNSHIP
101 COMMERCE DRIVE
EXTON, PA 19341
610-363-9525

MUNICIPAL FILE NO.:

TAX MAP PARCEL NO.: 41-2-84.11

TOTAL AREA: 174.32 AC

TOTAL LOTS: 1

DATE: 02/13/25

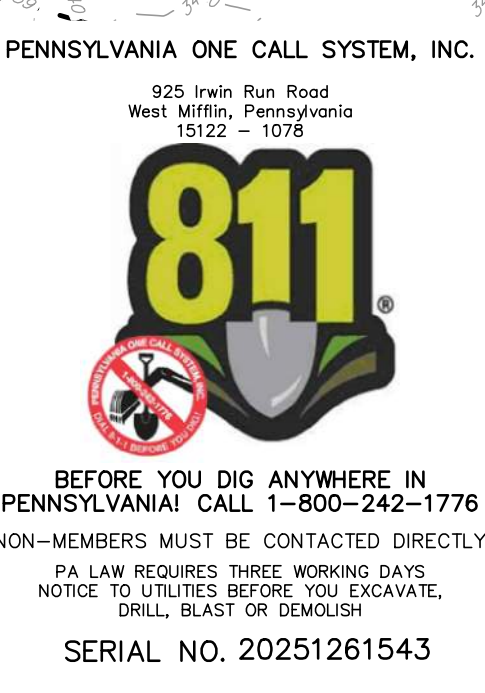
SCALE: 1"=30'

DRAWN BY: BH

CHECKED BY: DL

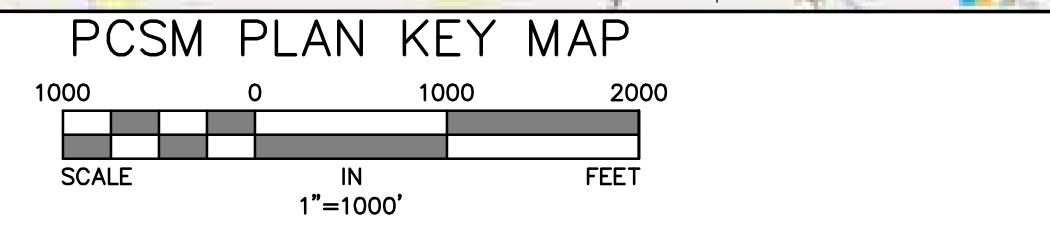
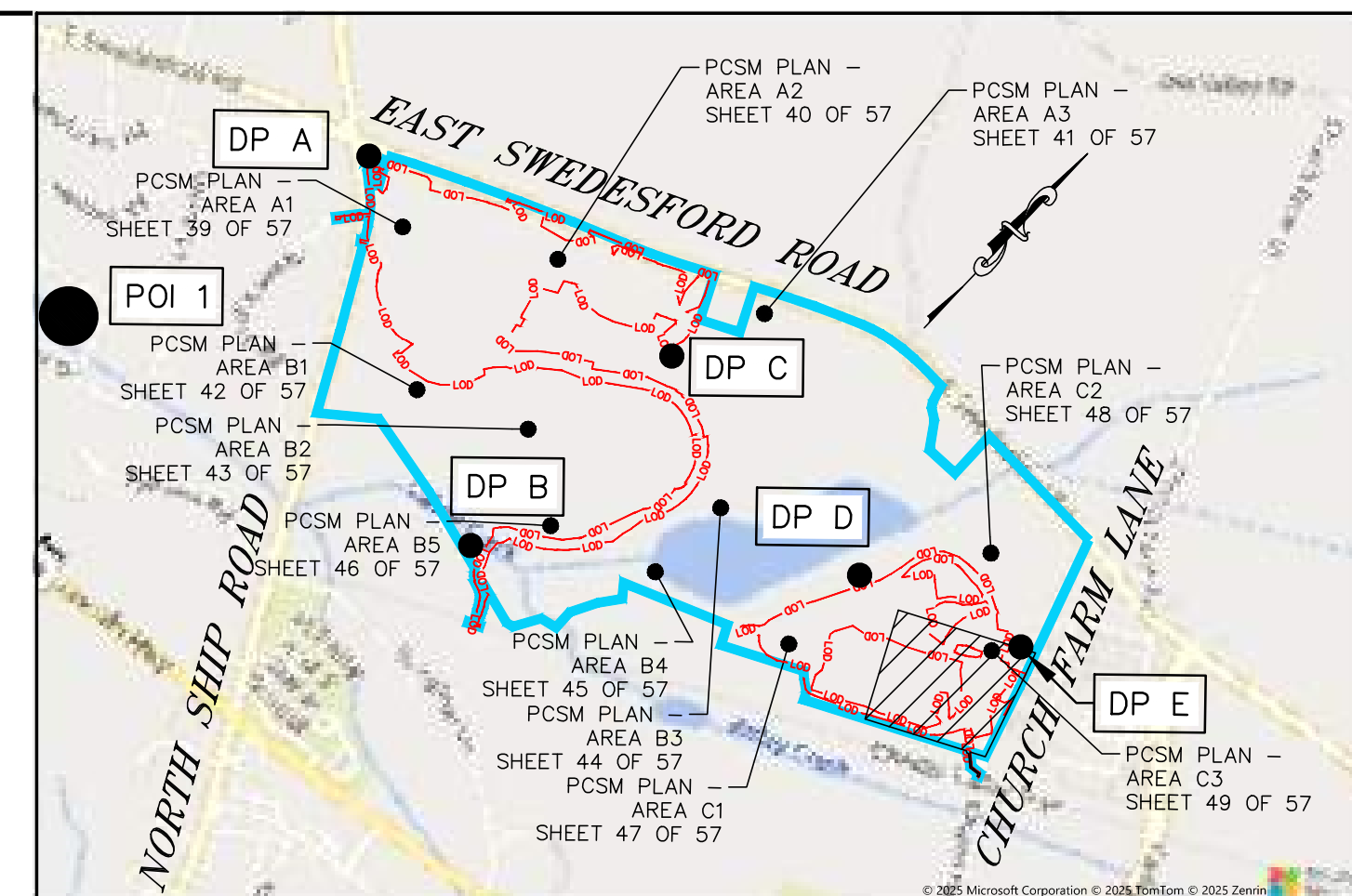
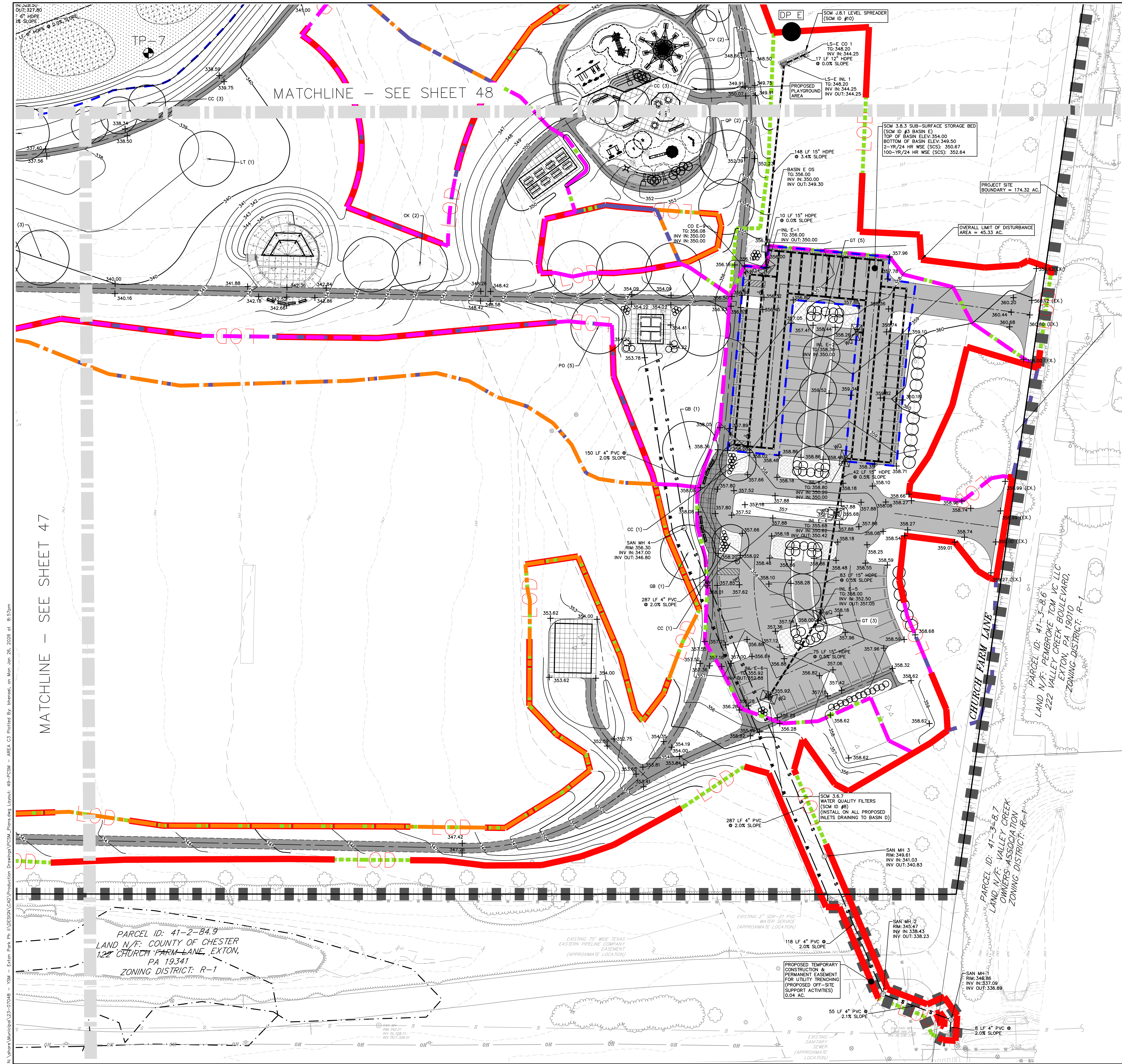
SHEET NO.: 47 OF 57

N:\mshara\municipal\23-07048 - YSM - Exton Park Ph II\DESIGN\CAD\Production Drawings\PCSM_Phase2.dwg, Layout: 47-PCSM - AREA C1 Plotted By: bhenzel, on Mon Jan 26, 2026 at 8:57pm



LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKETS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS; THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES, INC.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 26, 2016 PENNSYLVANIA ACT 50. GILMORE & ASSOCIATES, INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.



- LEGEND**
- - - - - EXISTING MAJOR CONTOUR
 - - - - - EXISTING MINOR CONTOUR
 - - - - - PROPOSED MAJOR CONTOUR
 - - - - - PROPOSED MINOR CONTOUR
 - UgB EXISTING SOILS BOUNDARY/TYPE
 - EXISTING ELECTRIC LINE
 - EXISTING TELECOMMUNICATION LINE
 - EXISTING SANITARY SEWER
 - EXISTING WATER MAIN
 - EXISTING STORM SEWER
 - EXISTING EDGE OF PAVEMENT
 - EXISTING BUILDING
 - EXISTING WETLANDS
 - EXISTING FEMA FLOODWAY
 - EXISTING FEMA 100-YR

- PCSM LEGEND**
- WQ SCM 3.6.7 WATER QUALITY FILTERS
 - SCM 3.4.4 REVEGETATION
 - PROJECT SITE BOUNDARY
 - LIMIT OF DISTURBANCE
 - PROPOSED RIP RAP APRON
 - SCM 3.8.2 NATURALIZED DETENTION BASIN W/MENGEDED SOILS
 - DP A/POI 1 DISCHARGE POINTS/POINT OF INTEREST
 - PROPOSED OFF-SITE SUPPORT ACTIVITIES
 - PROPOSED BASIN PLUGS
 - EXISTING AREAS ON SITE THAT WILL BE PROTECTED LONG-TERM AS PROTECTED NATURAL STORMWATER FEATURES SCM AND AREAS INTENDED FOR ESTABLISHMENT AND/OR ENHANCEMENT OF A RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER SCM. (TOTAL AREA = 51.82 AC)
 - PROPOSED DRAINAGE AREAS WITHIN LOD TO SCM
 - PROPOSED DRAINAGE AREAS OUTSIDE LOD TO SCM
 - PROPOSED DRAINAGE AREAS WITHIN LOD AS BYPASS
 - PROPOSED DRAINAGE AREAS OUTSIDE LOD AS BYPASS
 - DRAINAGE AREAS FOR SWDS
 - PROPOSED SWM BASIN

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

DAVID LEH
REGISTERED PROFESSIONAL ENGINEER
PE049778E

DATE: 12/11/25

REV.	DATE	DESCRIPTION
6	12/11/25	REV. PER PLAN RECORDING
5	10/22/25	REV. PER CODE LTR & TMP REVIEW LTR
4	09/15/25	REV. FOR LODD LTR
3	06/17/25	REV. FOR LODD LTR
2	05/07/25	REV. PER TMP REVIEW LTR
1	05/07/25	REV.

SITE IMPROVEMENT PLANS

EXTON PARK IMPROVEMENT PROJECT - PHASE 2

WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

PCSM PLAN - AREA C3

PARCEL ID: 41-2-84.9
LAND N/F: COUNTY OF CHESTER
122 CHURCH FARM LANE, EXTON,
PA 19341
ZONING DISTRICT: R-1

PARCEL ID: 41-3-8.6
LAND N/F: FENBROKE TCM VC LLC
222 VALLEY CREEK BOULEVARD,
EXTON, PA 19310
ZONING DISTRICT: R-1

PARCEL ID: 41-3-8.7
LAND N/F: VALLEY CREEK OWNERS ASSOCIATION
ZONING DISTRICT: R-1

PENNSYLVANIA ONE CALL SYSTEM, INC.

811

BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776

NON-MEMBERS MUST BE CONTACTED DIRECTLY

PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU LOCATE, DRILL, BLAST OR DEMOLISH

SERIAL NO. 20251261543

LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS. THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES INC.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2018 PENNSYLVANIA ACT 50.

GILMORE & ASSOCIATES INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.

SCALE: 1"=30'

DATE: 02/13/25

DRAWN BY: BH

CHECKED BY: DL

MATCHLINE - SEE SHEET 47

MATCHLINE - SEE SHEET 48

N:\Inshore Municipal\23-07048 - YSM - Exton Park Ph II\DESIGN\CAD\Production Drawings\PCSM_Plans.dwg, Layout: 49-PCSM - AREA C3 Plotted By: bhenzel, on Mon Jan 26, 2026 at 8:57am

REV.	DESCRIPTION	DATE	BY
1	REV. PER PLAN RECORDING	12/11/25	DL
2	REV. PER COOD REVIEW LTR	10/22/25	DL
3	REV. PER COOD LTR & TMP REVIEW LTR	09/15/25	DL
4	REV. PER COOD LTR	06/17/25	DL
5	REV. PER COOD LTR	05/23/25	DL
6	REV. PER TMP REVIEW LTR	05/07/25	DL

SYM	% IN MIX; BOTANICAL NAME (COMMON NAME)	SEEDING RATE	SYM	% IN MIX; BOTANICAL NAME (COMMON NAME)	SEEDING RATE
EXISTING STORMWATER MANAGEMENT BASIN FLOOR SEED MIX (ERNMX #180)			EXISTING STORMWATER MANAGEMENT BASIN SIDE SLOPE SEED MIX (ERNMX #178)		

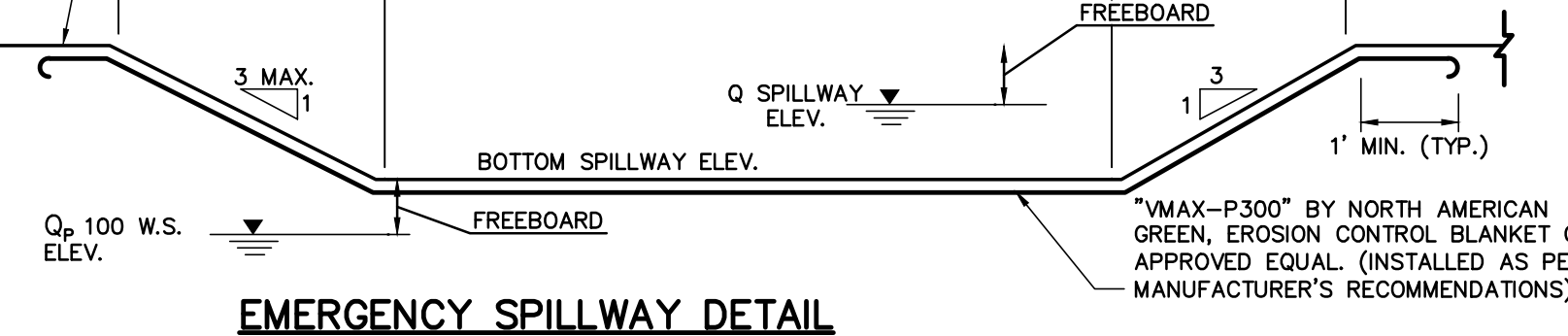
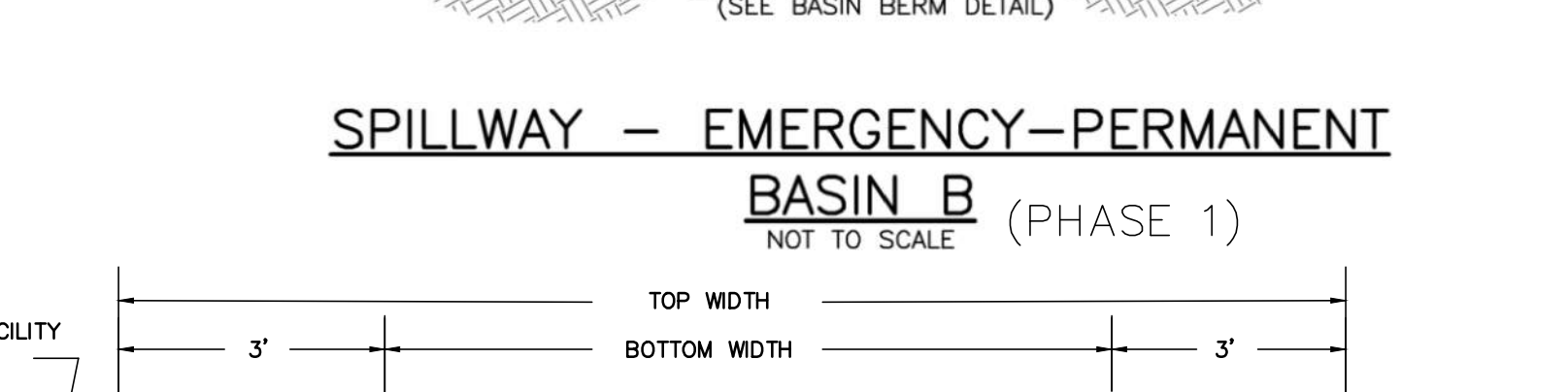
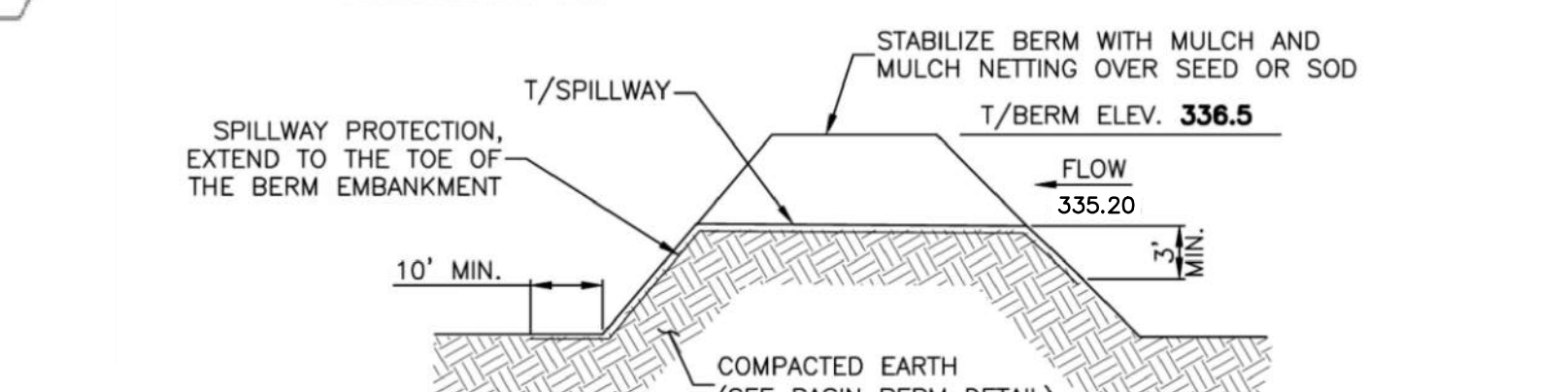
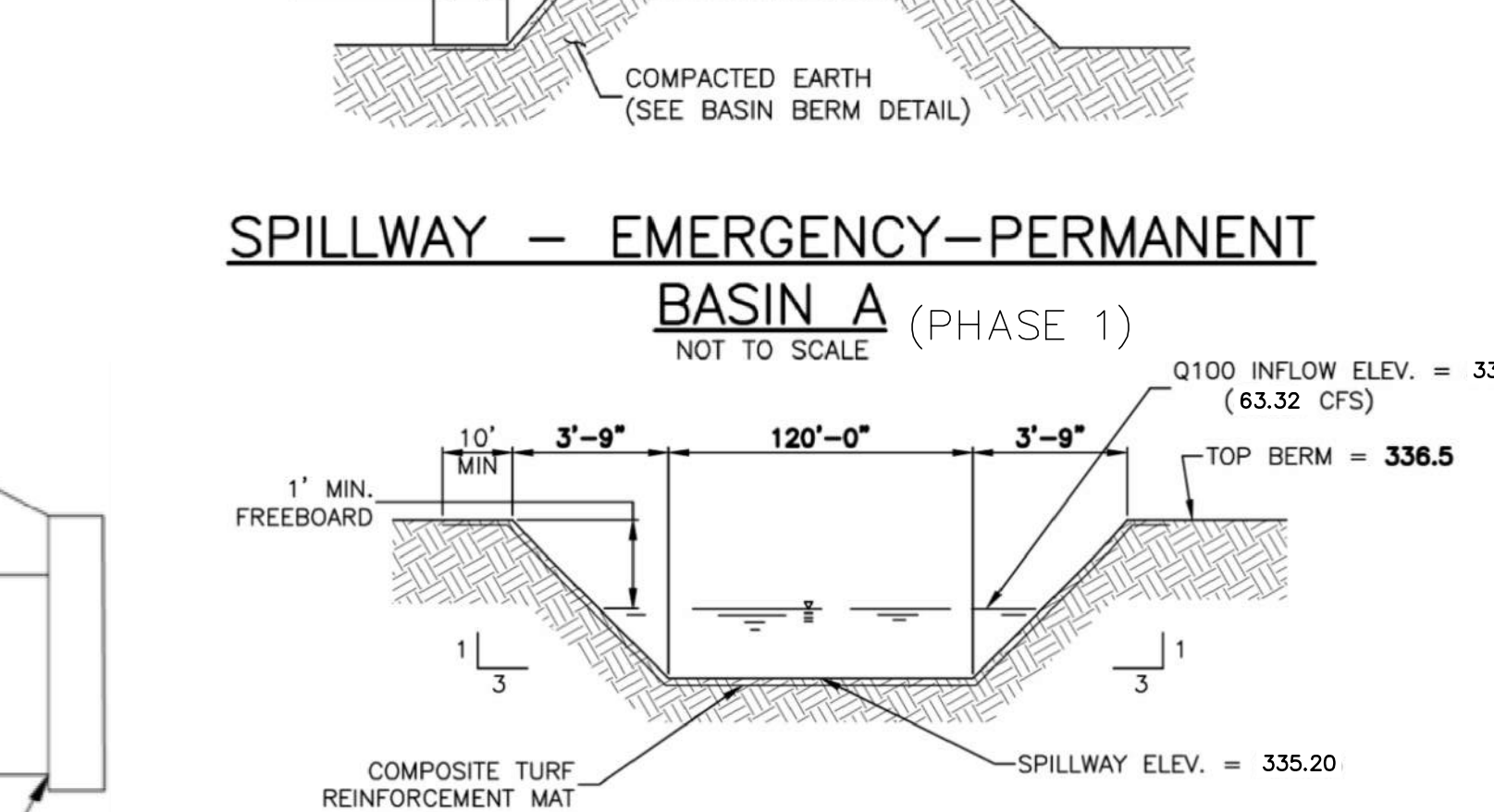
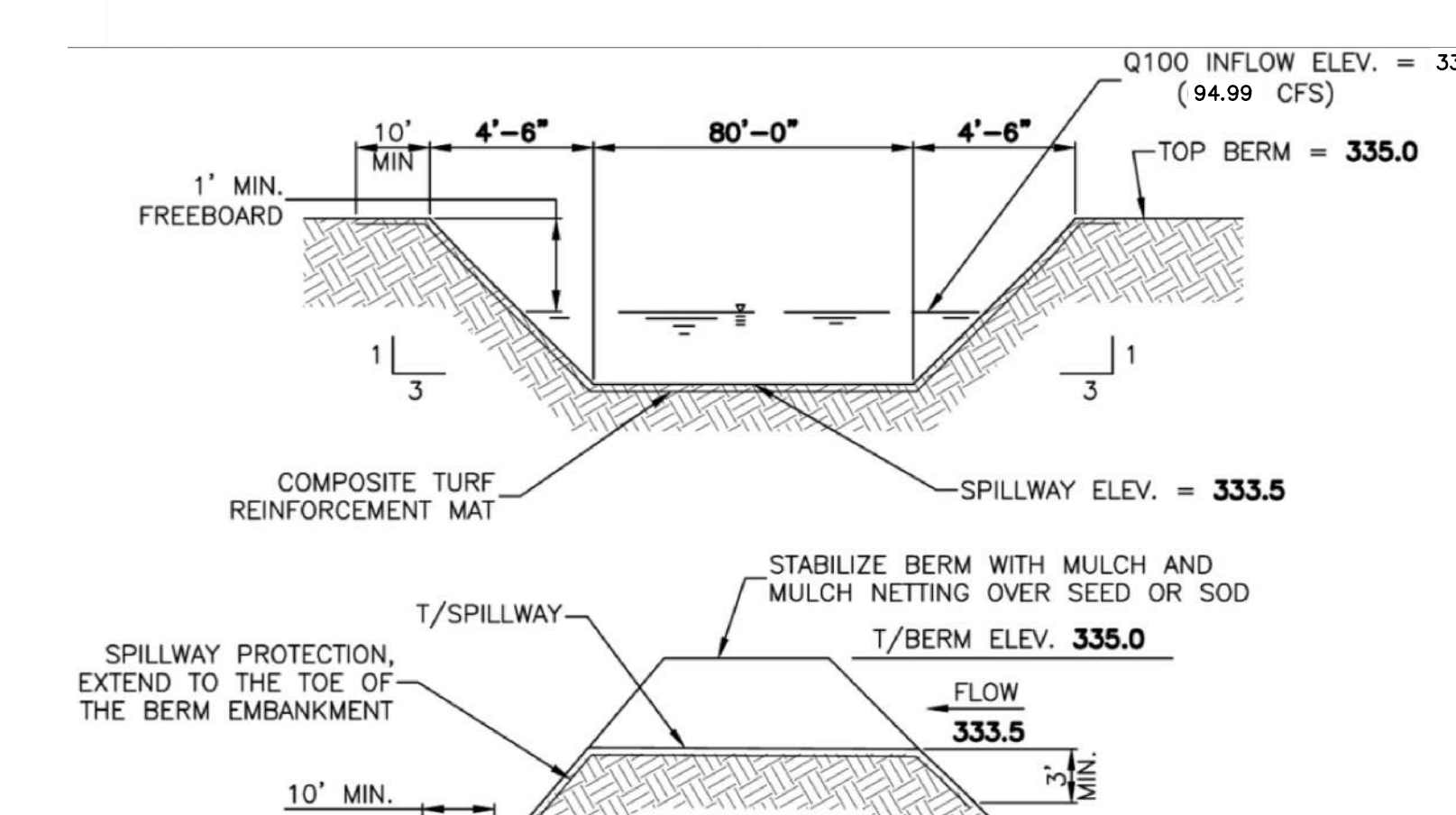
Basin #	100-YR WSE (SCS) (ft.)	Top of Berm (ft.)	Spillway Elev. (ft.)	Spillway Width (ft.)	Top Width (ft.)	100-YR Q (cfs)	Height (ft.)	Max. W.S.E.L. (ft.)	Freeboard Provided (ft.)
Basin A	333.15	335.00	333.50	80.00	89.00	94.99	0.59	334.09	0.91
Basin B	334.88	336.50	335.20	120.00	127.80	63.32	0.35	335.55	0.95
Basin C	363.39	366.00	365.00	50.00	56.00	15.43	0.24	365.24	0.76
Basin D	332.91	335.00	334.00	50.00	56.00	34.37	0.41	334.41	0.59

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
SWALE D-1 (INSTALL IN PH. 2)	ALL	4.00	2.00	16.00	3.00	3.00	NAG SC250

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
SWALE A-1 (INSTALLED IN PH. 1)	ALL	5.00	1.00	11.00	3.00	3.00	NAG 575/VEG
SWALE A-2 (INSTALLED IN PH. 1)	ALL	6.00	1.25	13.50	3.00	3.00	NAG 575/VEG
SWALE B-1 (INSTALLED IN PH. 1)	ALL	6.00	1.25	13.50	3.00	3.00	NAG 575/VEG
SWALE A-3 (INSTALLED IN PH. 1)	ALL	0.00	1.25	22.50	9.00	9.00	NAG 575/VEG
SWALE B-2 (INSTALLED IN PH. 1)	ALL	0.00	1.50	18.00	9.00	9.00	NAG 575/VEG

SYM	% IN MIX; BOTANICAL NAME (COMMON NAME)	SEEDING RATE	SYM	% IN MIX; BOTANICAL NAME (COMMON NAME)	SEEDING RATE
SOIL RESTORATION FILTER STRIP SEED MIX (ERNMX #177)			SOIL RESTORATION FILTER STRIP SEED MIX (ERNMX #177)		

NOTE: SEED MIXES AS PROVIDED BY ERNEST CONSERVATION SEEDS, INC., (8884 MERCER PIKE, MEADVILLE, PA 16335; 1-800-873-3321) - OR APPROVED EQUAL.



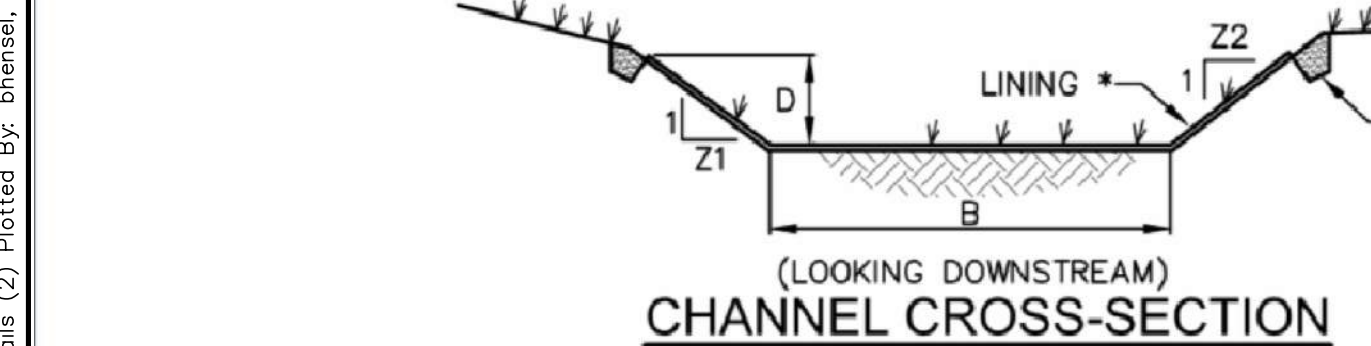
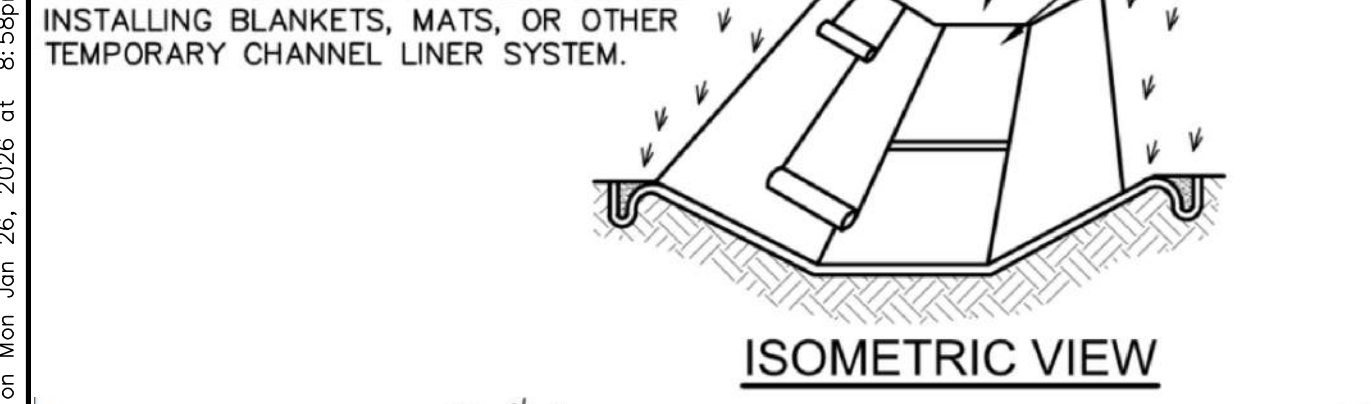
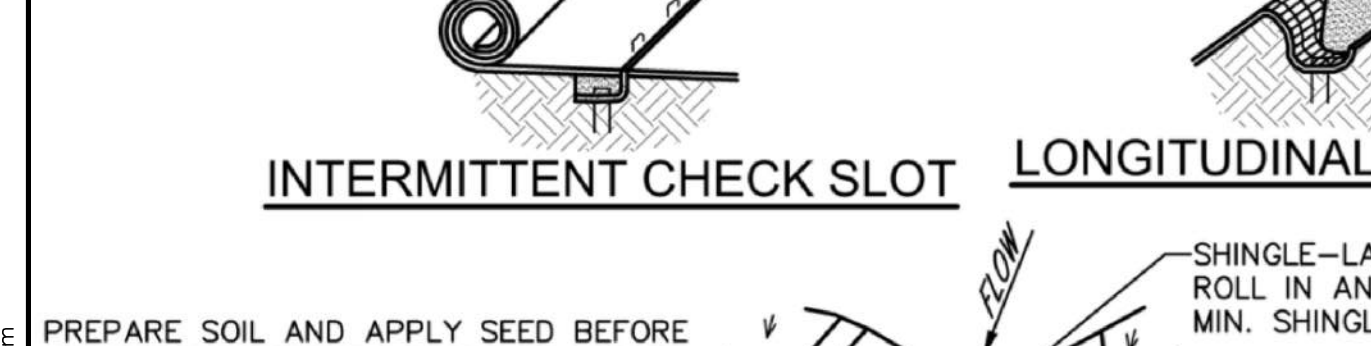
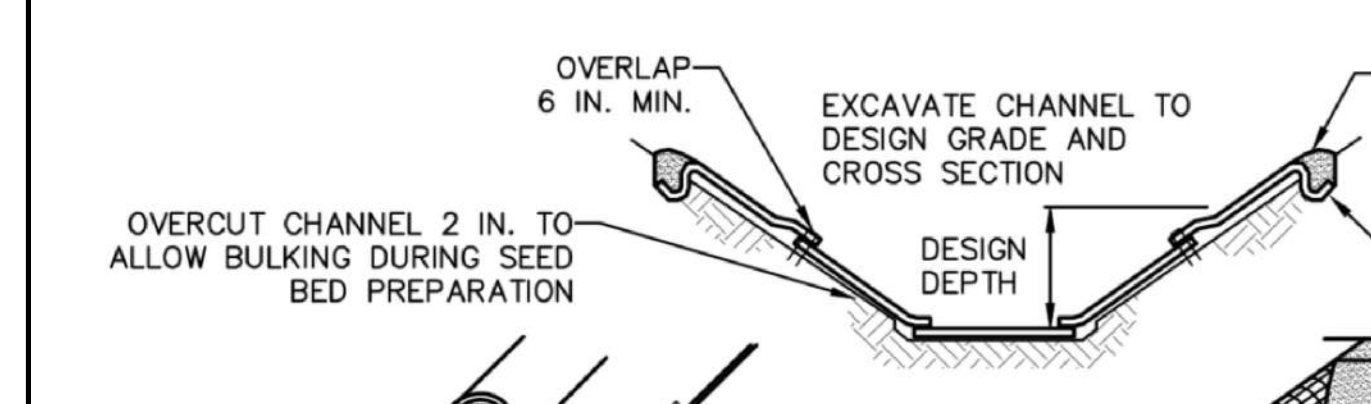
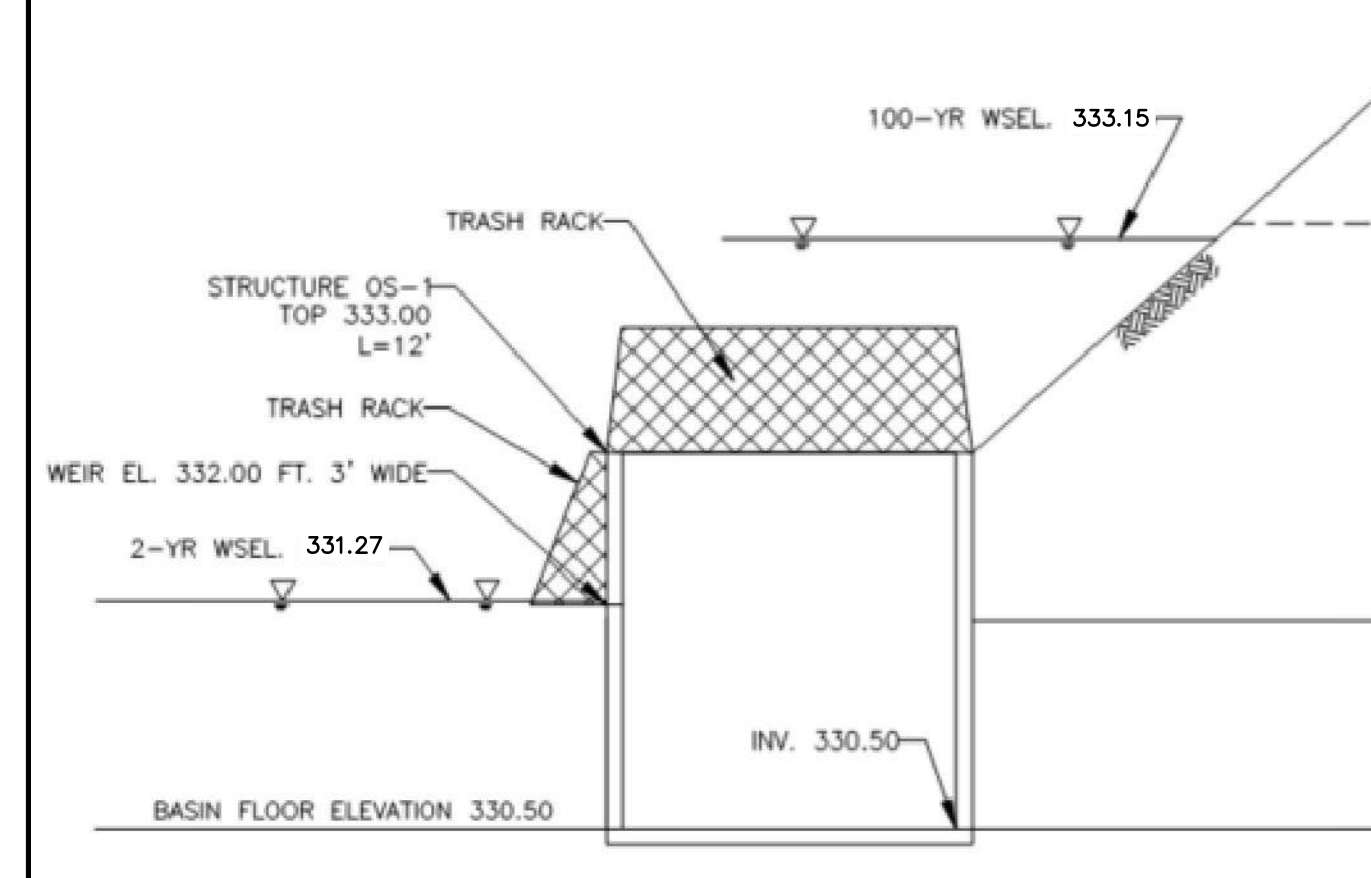
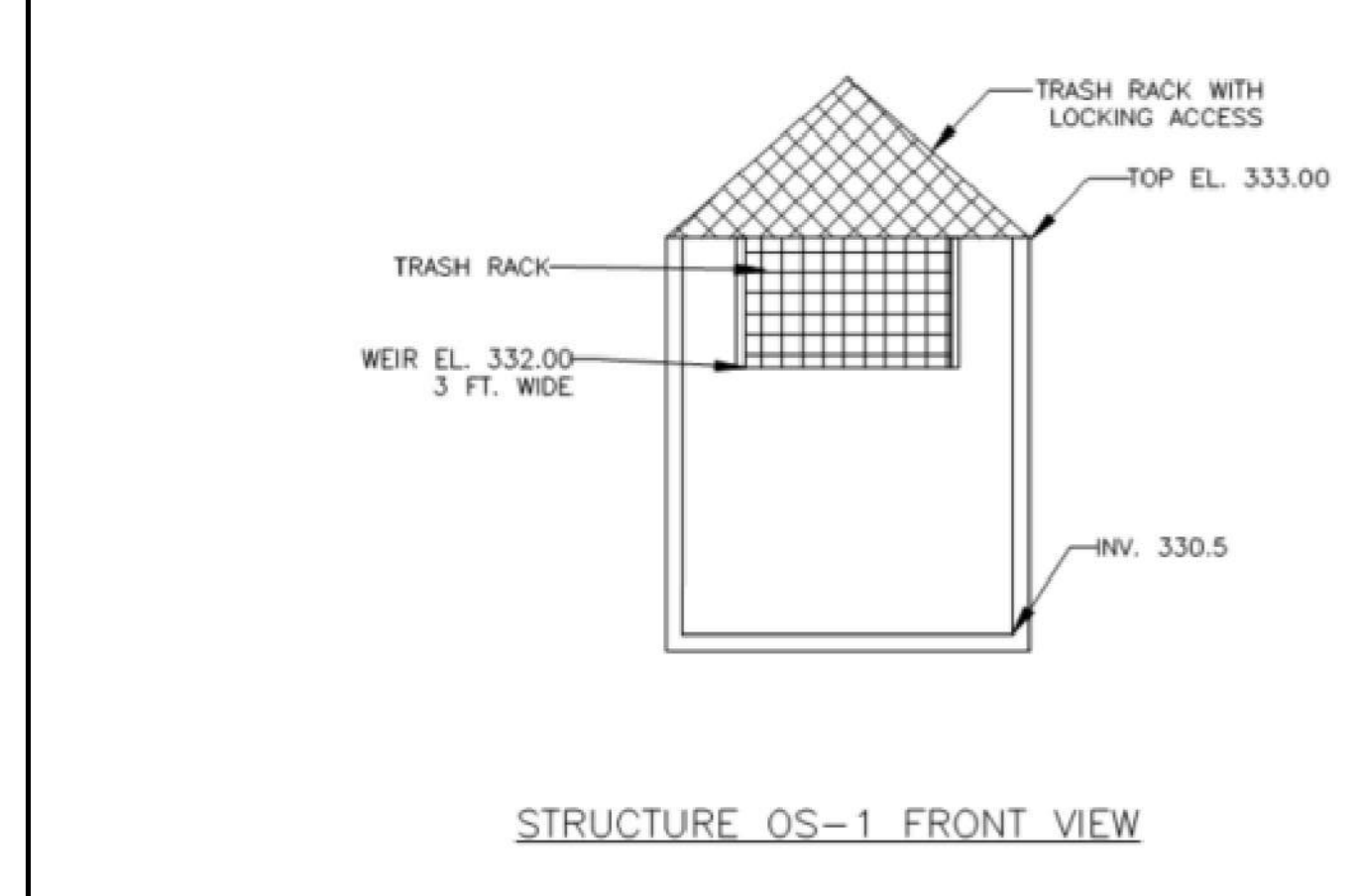
Basin #	100-YR WSE (SCS) (ft.)	Top of Berm (ft.)	Spillway Elev. (ft.)	Spillway Width (ft.)	Top Width (ft.)	100-YR Q (cfs)	Height (ft.)	Max. W.S.E.L. (ft.)	Freeboard Provided (ft.)
Basin A	333.15	335.00	333.50	80.00	89.00	94.99	0.59	334.09	0.91
Basin B	334.88	336.50	335.20	120.00	127.80	63.32	0.35	335.55	0.95
Basin C	363.39	366.00	365.00	50.00	56.00	15.43	0.24	365.24	0.76
Basin D	332.91	335.00	334.00	50.00	56.00	34.37	0.41	334.41	0.59

SYM	% IN MIX; BOTANICAL NAME (COMMON NAME)	SEEDING RATE	SYM	% IN MIX; BOTANICAL NAME (COMMON NAME)	SEEDING RATE
EXISTING STORMWATER MANAGEMENT BASIN FLOOR SEED MIX (ERNMX #180)			EXISTING STORMWATER MANAGEMENT BASIN SIDE SLOPE SEED MIX (ERNMX #178)		

Basin #	100-YR WSE (SCS) (ft.)	Top of Berm (ft.)	Spillway Elev. (ft.)	Spillway Width (ft.)	Top Width (ft.)	100-YR Q (cfs)	Height (ft.)	Max. W.S.E.L. (ft.)	Freeboard Provided (ft.)
Basin A	333.15	335.00	333.50	80.00	89.00	94.99	0.59	334.09	0.91
Basin B	334.88	336.50	335.20	120.00	127.80	63.32	0.35	335.55	0.95
Basin C	363.39	366.00	365.00	50.00	56.00	15.43	0.24	365.24	0.76
Basin D	332.91	335.00	334.00	50.00	56.00	34.37	0.41	334.41	0.59

SYM	% IN MIX; BOTANICAL NAME (COMMON NAME)	SEEDING RATE	SYM	% IN MIX; BOTANICAL NAME (COMMON NAME)	SEEDING RATE
EXISTING STORMWATER MANAGEMENT BASIN FLOOR SEED MIX (ERNMX #180)			EXISTING STORMWATER MANAGEMENT BASIN SIDE SLOPE SEED MIX (ERNMX #178)		

NOTE: SEED MIXES AS PROVIDED BY ERNEST CONSERVATION SEEDS, INC., (8884 MERCER PIKE, MEADVILLE, PA 16335; 1-800-873-3321) - OR APPROVED EQUAL.

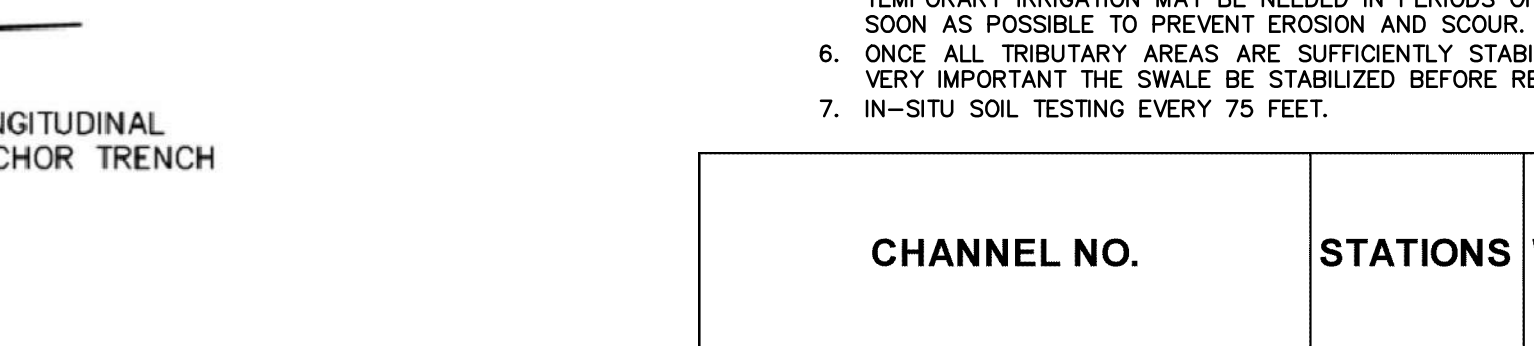
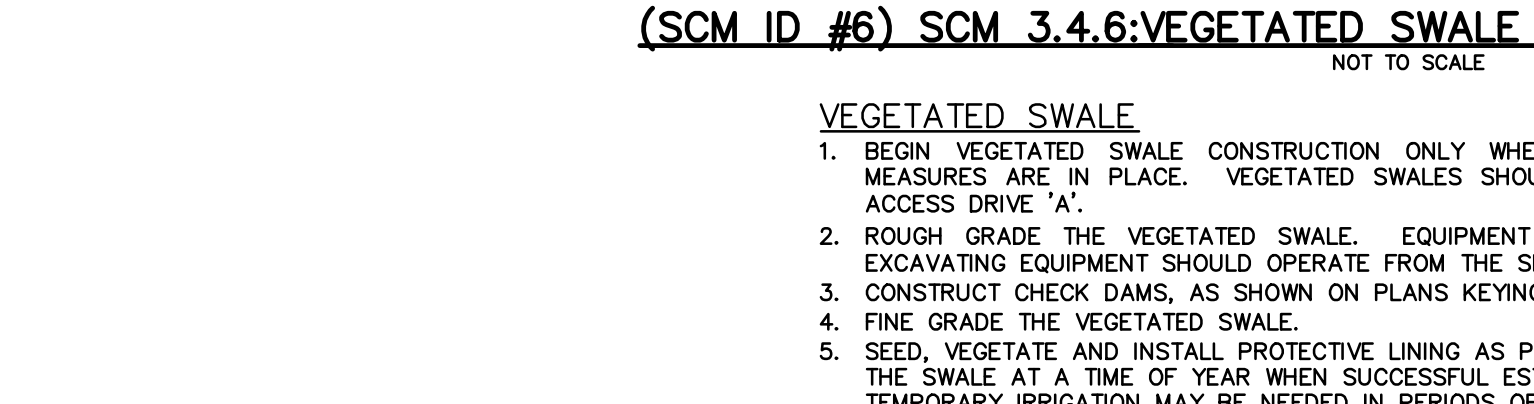
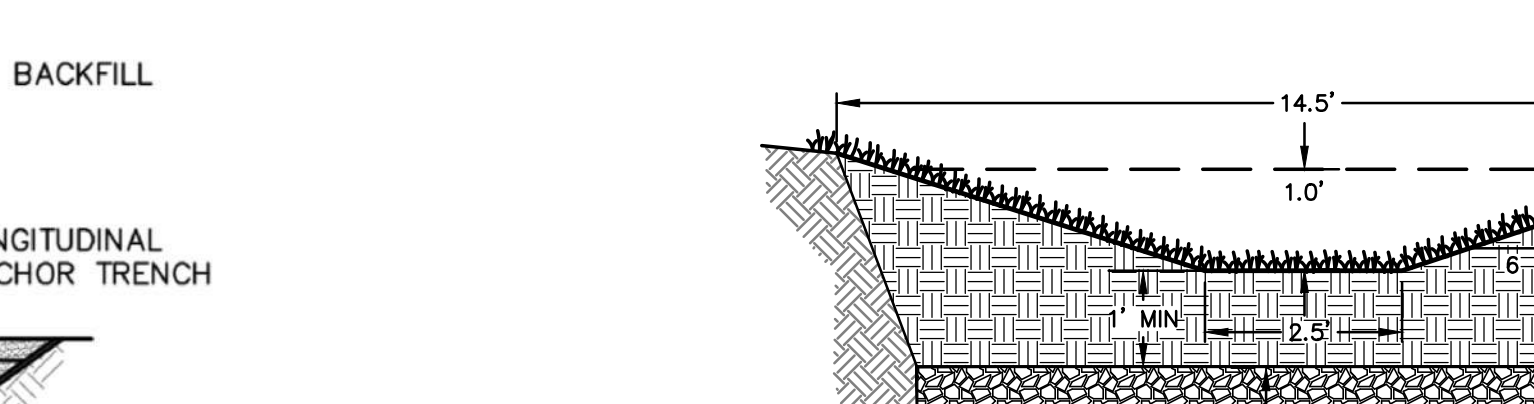
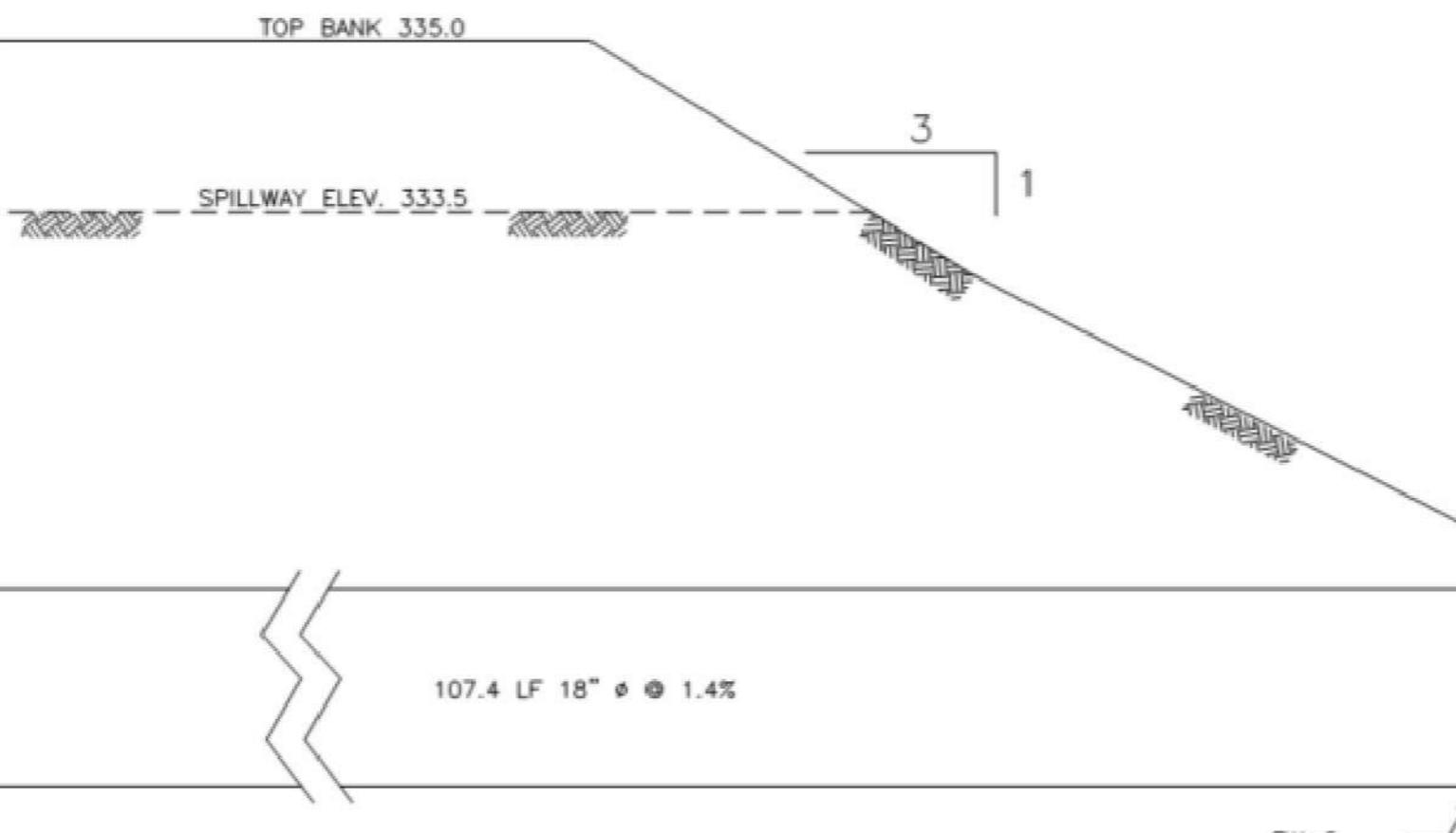
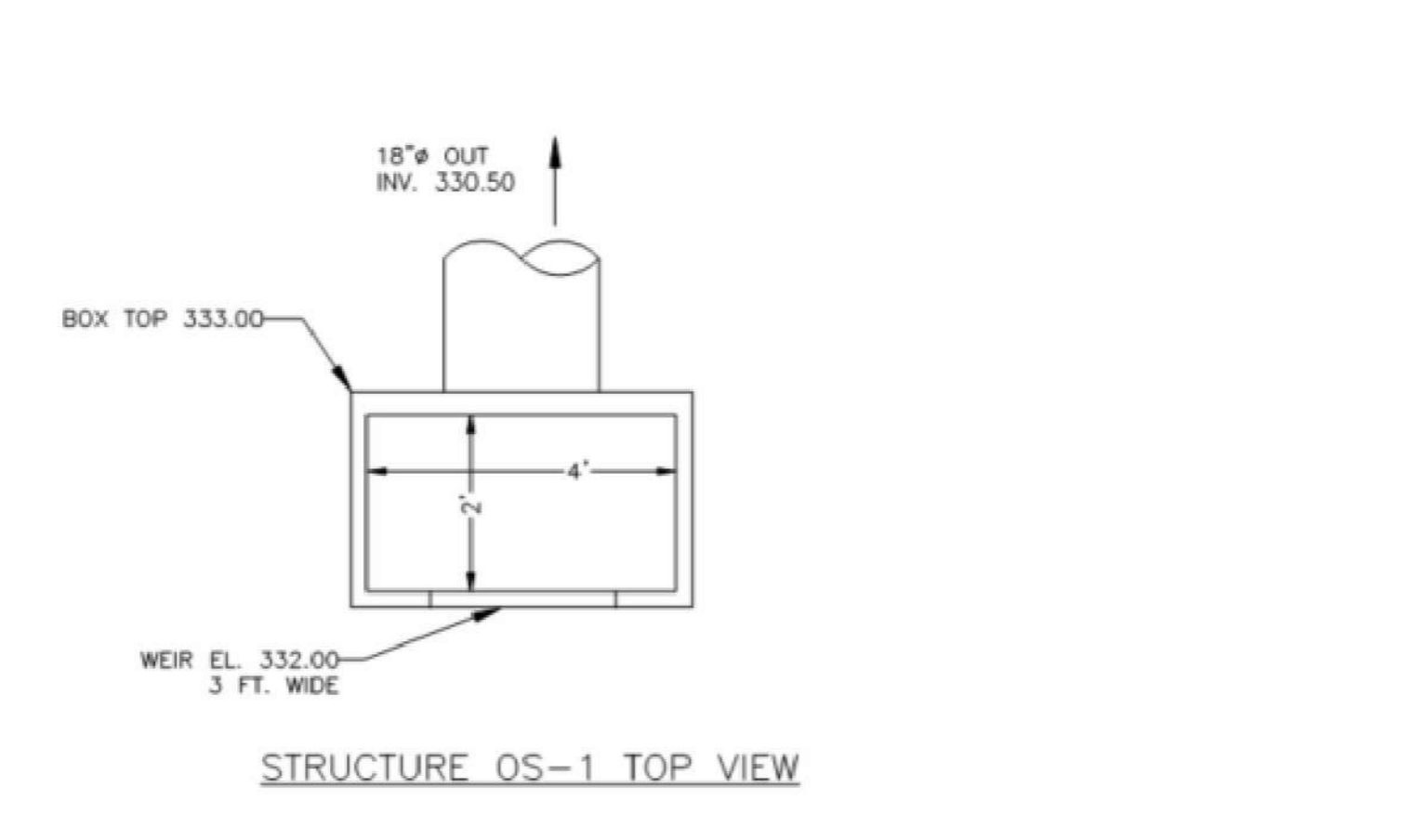


Basin #	100-YR WSE (SCS) (ft.)	Top of Berm (ft.)	Spillway Elev. (ft.)	Spillway Width (ft.)	Top Width (ft.)	100-YR Q (cfs)	Height (ft.)	Max. W.S.E.L. (ft.)	Freeboard Provided (ft.)
Basin A	333.15	335.00	333.50	80.00	89.00	94.99	0.59	334.09	0.91
Basin B	334.88	336.50	335.20	120.00	127.80	63.32	0.35	335.55	0.95
Basin C	363.39	366.00	365.00	50.00	56.00	15.43	0.24	365.24	0.76
Basin D	332.91	335.00	334.00	50.00	56.00	34.37	0.41	334.41	0.59

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
SWALE D-1 (INSTALL IN PH. 2)	ALL	4.00	2.00	16.00	3.00	3.00	NAG SC250

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
SWALE A-1 (INSTALLED IN PH. 1)	ALL	5.00	1.00	11.00	3.00	3.00	NAG 575/VEG
SWALE A-2 (INSTALLED IN PH. 1)	ALL	6.00	1.25	13.50	3.00	3.00	NAG 575/VEG
SWALE B-1 (INSTALLED IN PH. 1)	ALL	6.00	1.25	13.50	3.00	3.00	NAG 575/VEG
SWALE A-3 (INSTALLED IN PH. 1)	ALL	0.00	1.25	22.50	9.00	9.00	NAG 575/VEG
SWALE B-2 (INSTALLED IN PH. 1)	ALL	0.00	1.50	18.00	9.00	9.00	NAG 575/VEG

NOTE: SEED MIXES AS PROVIDED BY ERNEST CONSERVATION SEEDS, INC., (8884 MERCER PIKE, MEADVILLE, PA 16335; 1-800-873-3321) - OR APPROVED EQUAL.

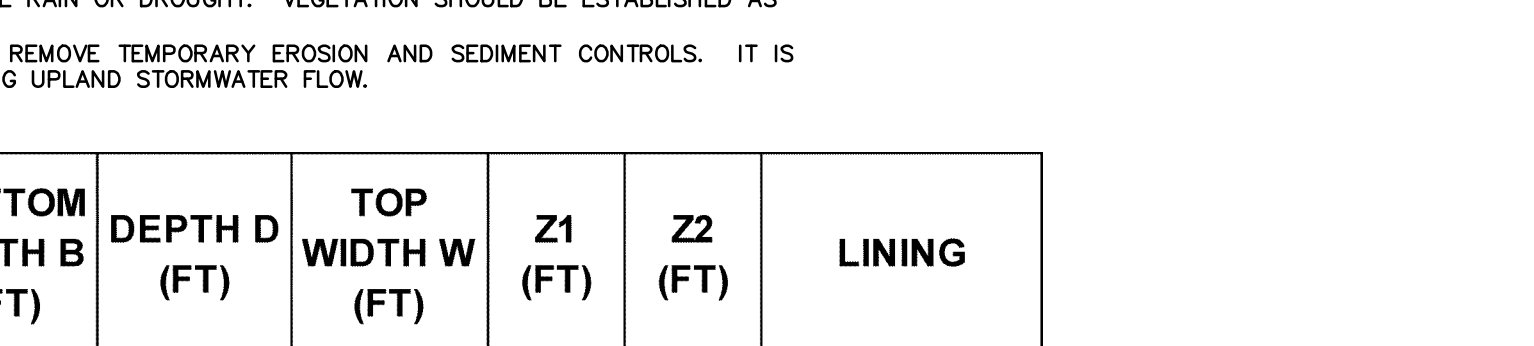
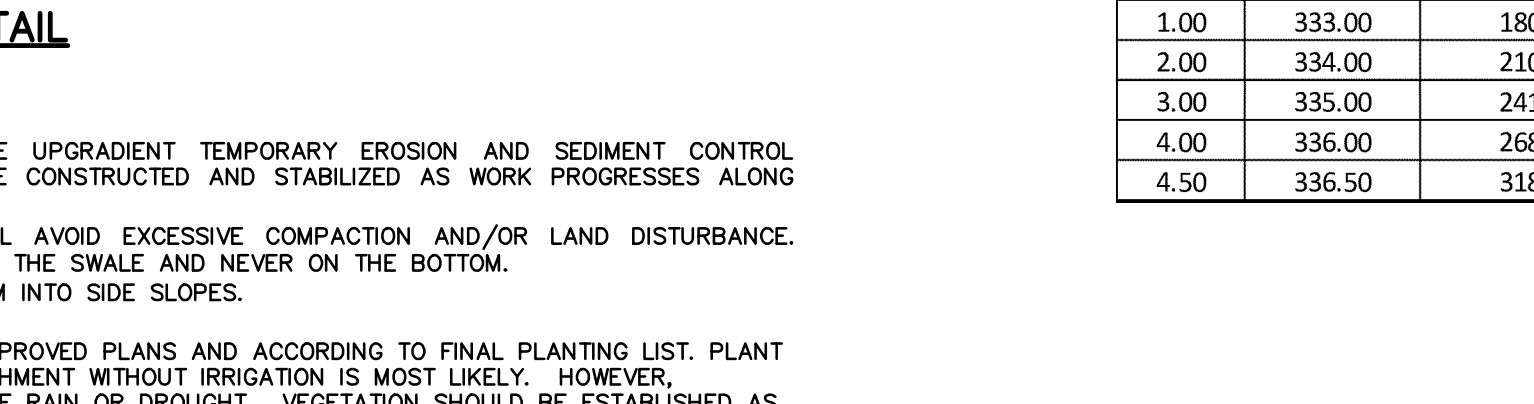
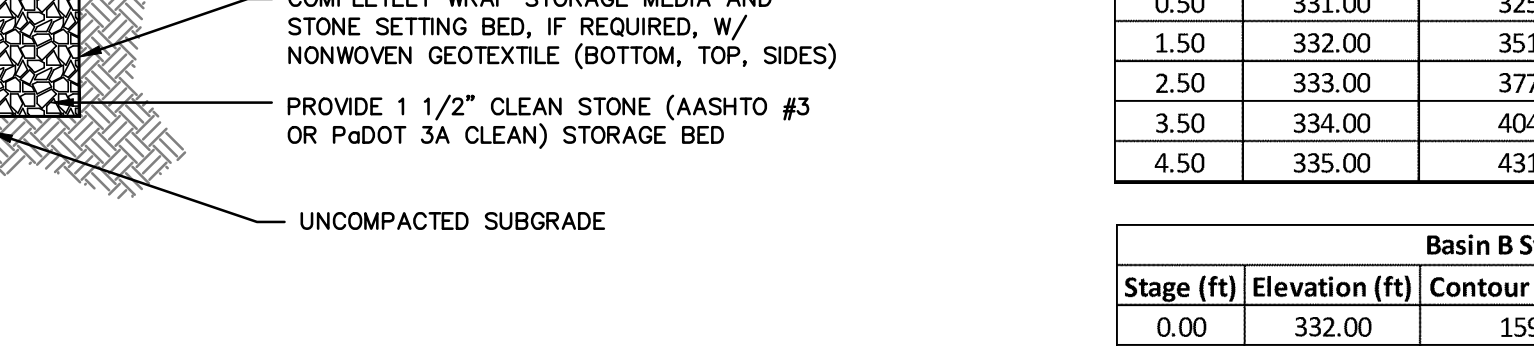
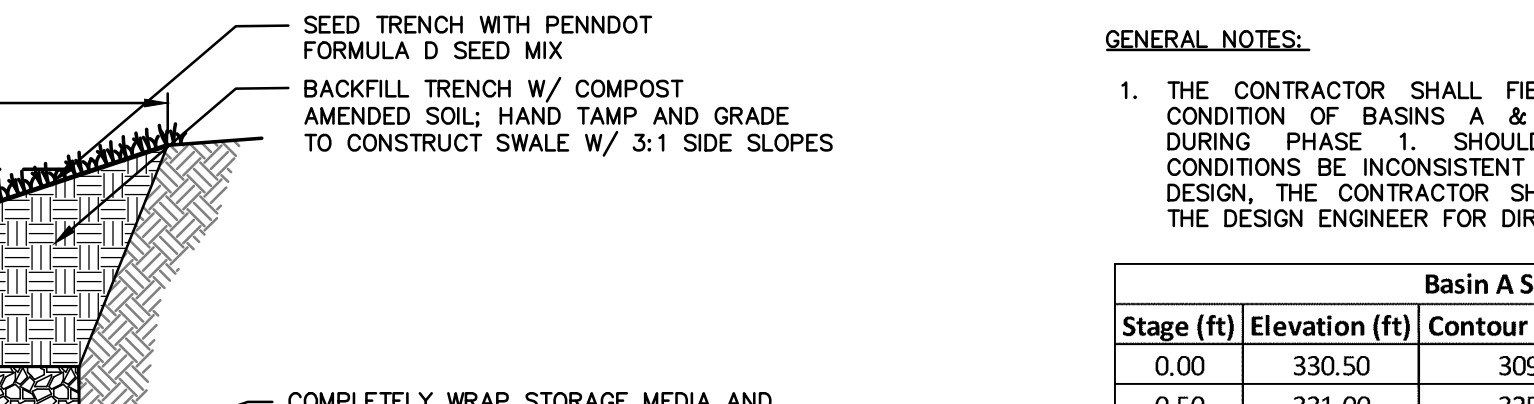
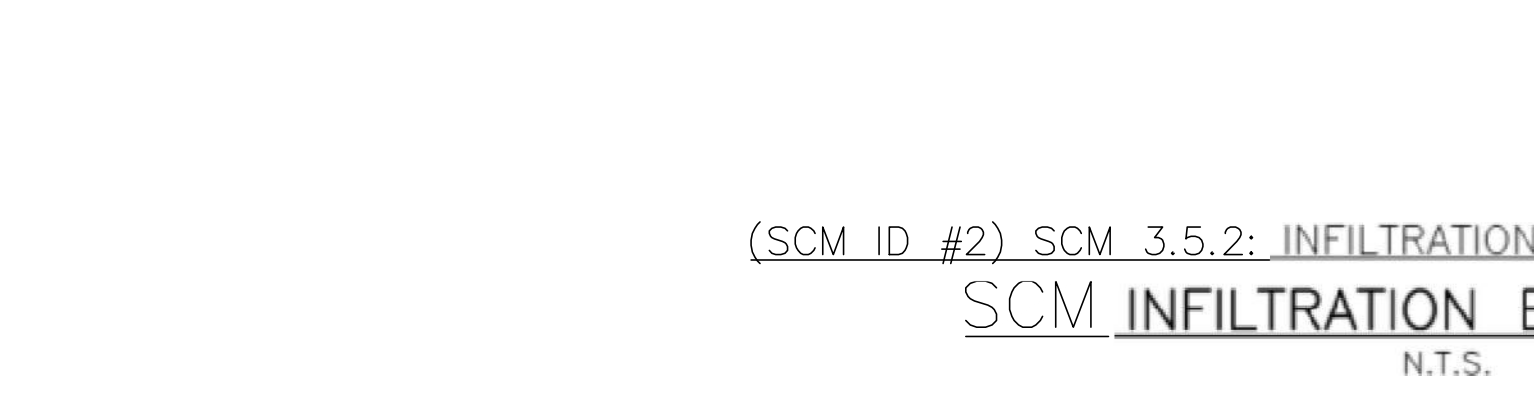
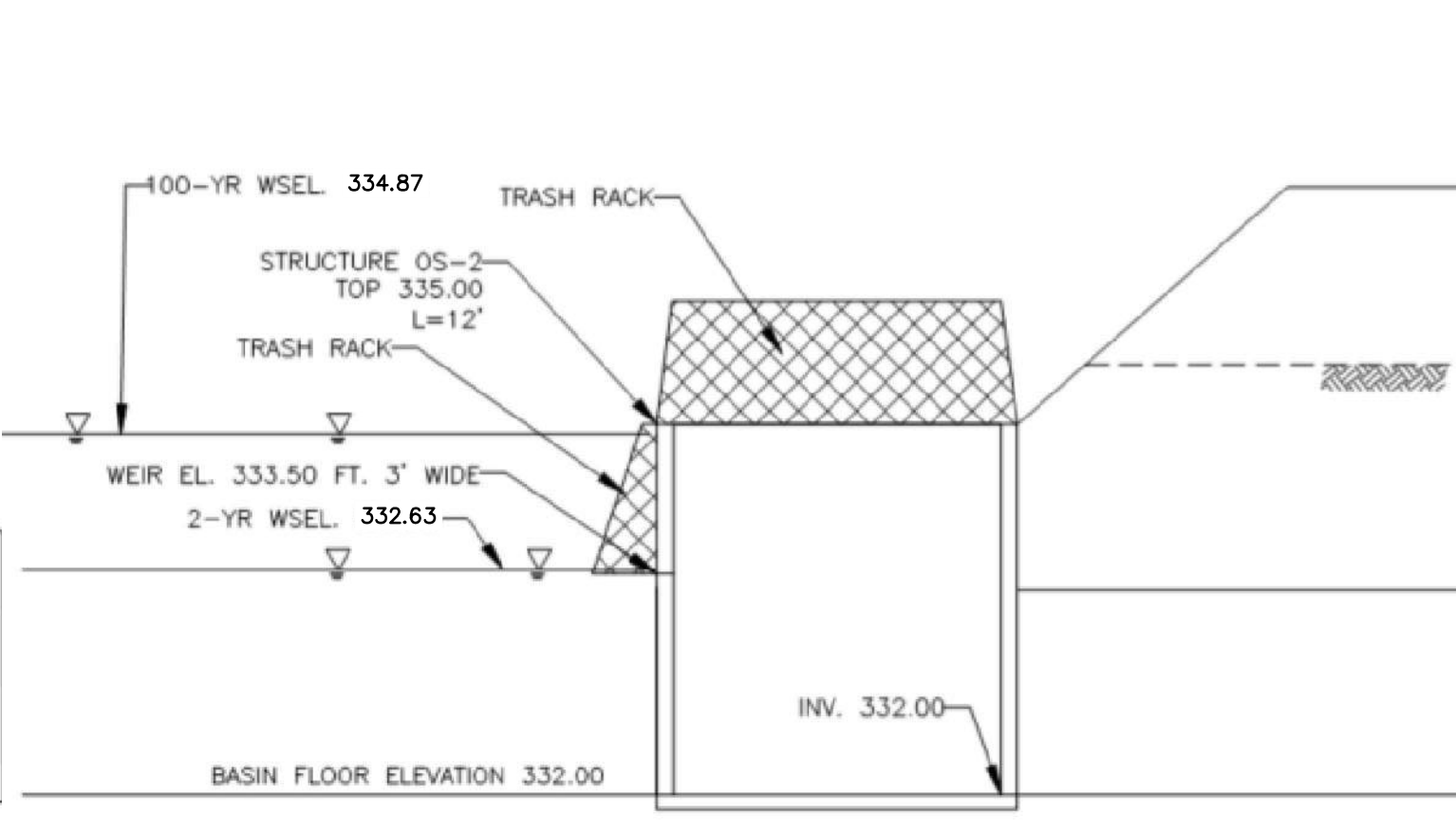
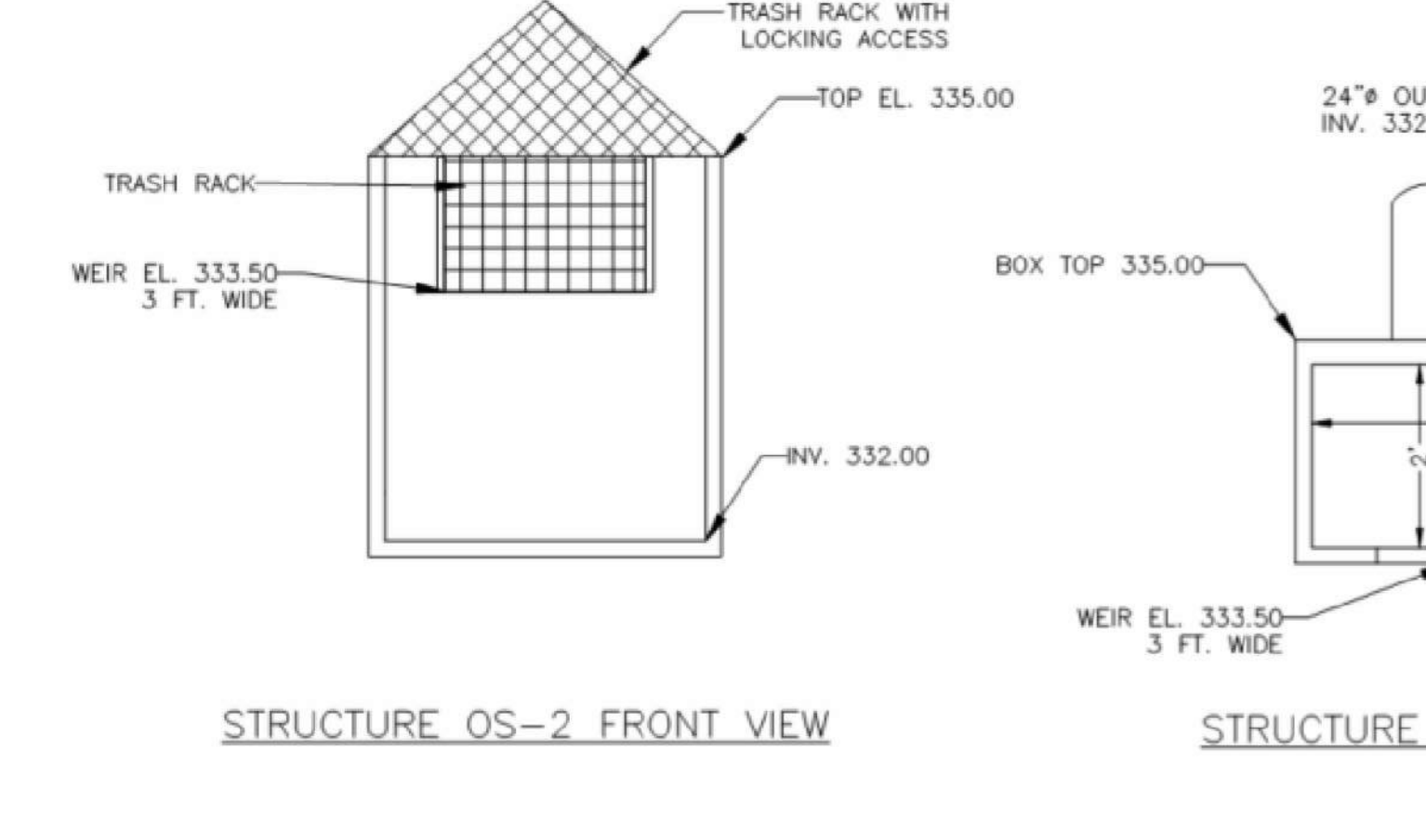


Basin #	100-YR WSE (SCS) (ft.)	Top of Berm (ft.)	Spillway Elev. (ft.)	Spillway Width (ft.)	Top Width (ft.)	100-YR Q (cfs)	Height (ft.)	Max. W.S.E.L. (ft.)	Freeboard Provided (ft.)
Basin A	333.15	335.00	333.50	80.00	89.00	94.99	0.59	334.09	0.91
Basin B	334.88	336.50	335.20	120.00	127.80	63.32	0.35	335.55	0.95
Basin C	363.39	366.00	365.00	50.00	56.00	15.43	0.24	365.24	0.76
Basin D	332.91	335.00	334.00	50.00	56.00	34.37	0.41	334.41	0.59

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
SWALE D-1 (INSTALL IN PH. 2)	ALL	4.00	2.00	16.00	3.00	3.00	NAG SC250

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
SWALE A-1 (INSTALLED IN PH. 1)	ALL	5.00	1.00	11.00	3.00	3.00	NAG 575/VEG
SWALE A-2 (INSTALLED IN PH. 1)	ALL	6.00	1.25	13.50	3.00	3.00	NAG 575/VEG
SWALE B-1 (INSTALLED IN PH. 1)	ALL	6.00	1.25	13.50	3.00	3.00	NAG 575/VEG
SWALE A-3 (INSTALLED IN PH. 1)	ALL	0.00	1.25	22.50	9.00	9.00	NAG 575/VEG
SWALE B-2 (INSTALLED IN PH. 1)	ALL	0.00	1.50	18.00	9.00	9.00	NAG 575/VEG

NOTE: SEED MIXES AS PROVIDED BY ERNEST CONSERVATION SEEDS, INC., (8884 MERCER PIKE, MEADVILLE, PA 16335; 1-800-873-3321) - OR APPROVED EQUAL.

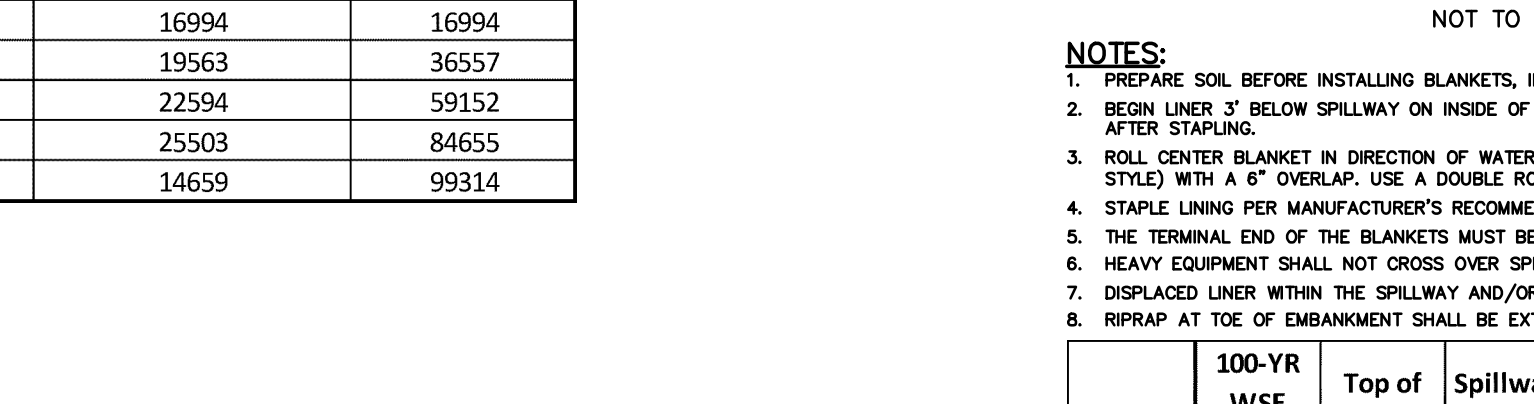
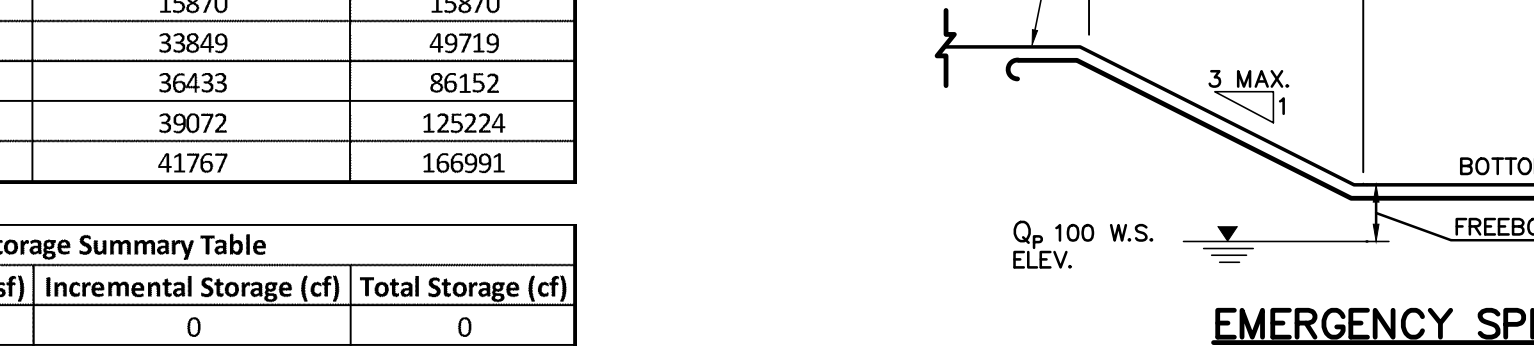
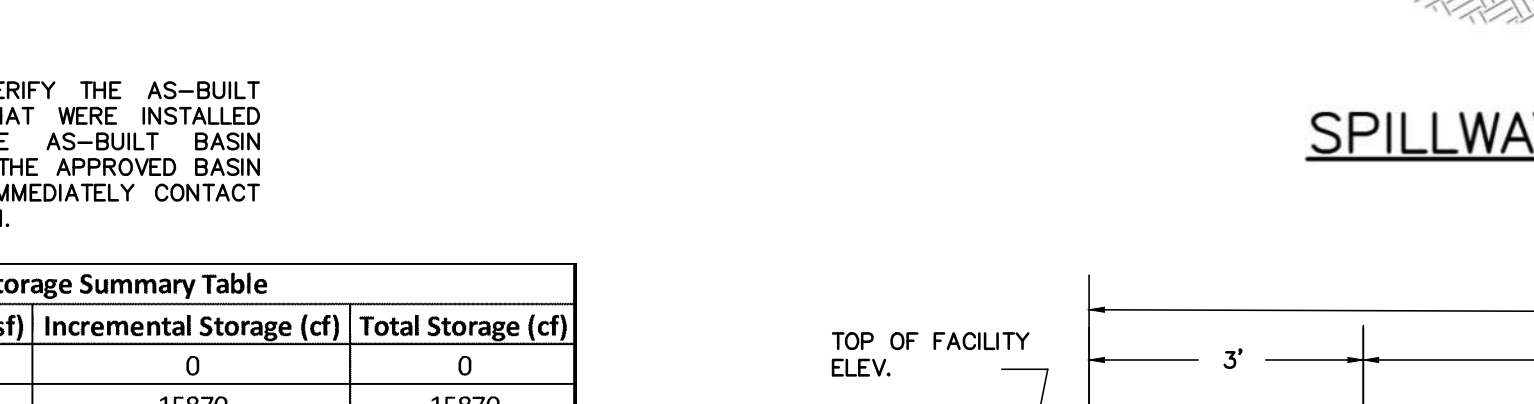
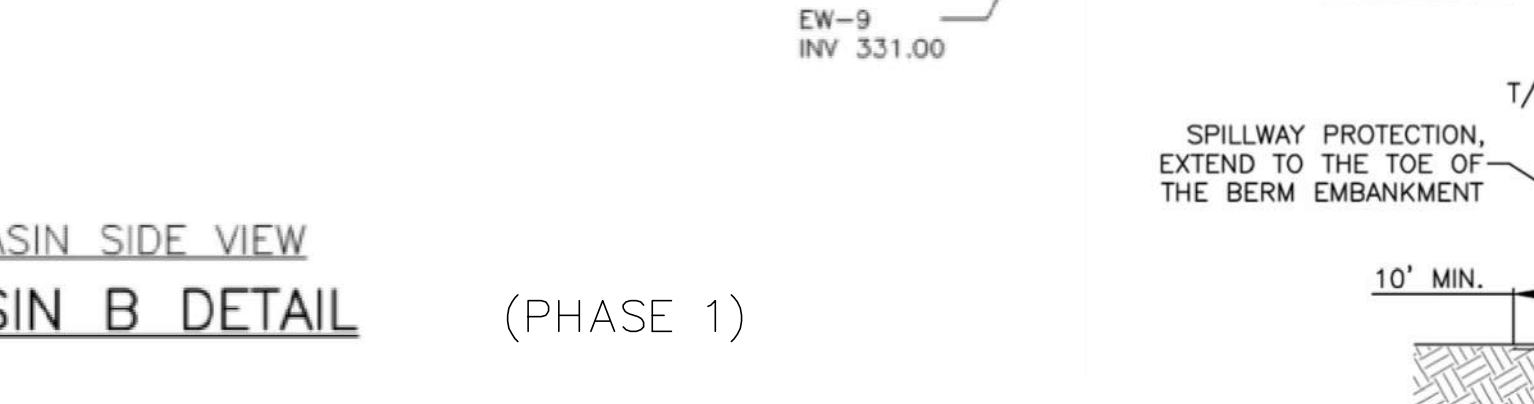
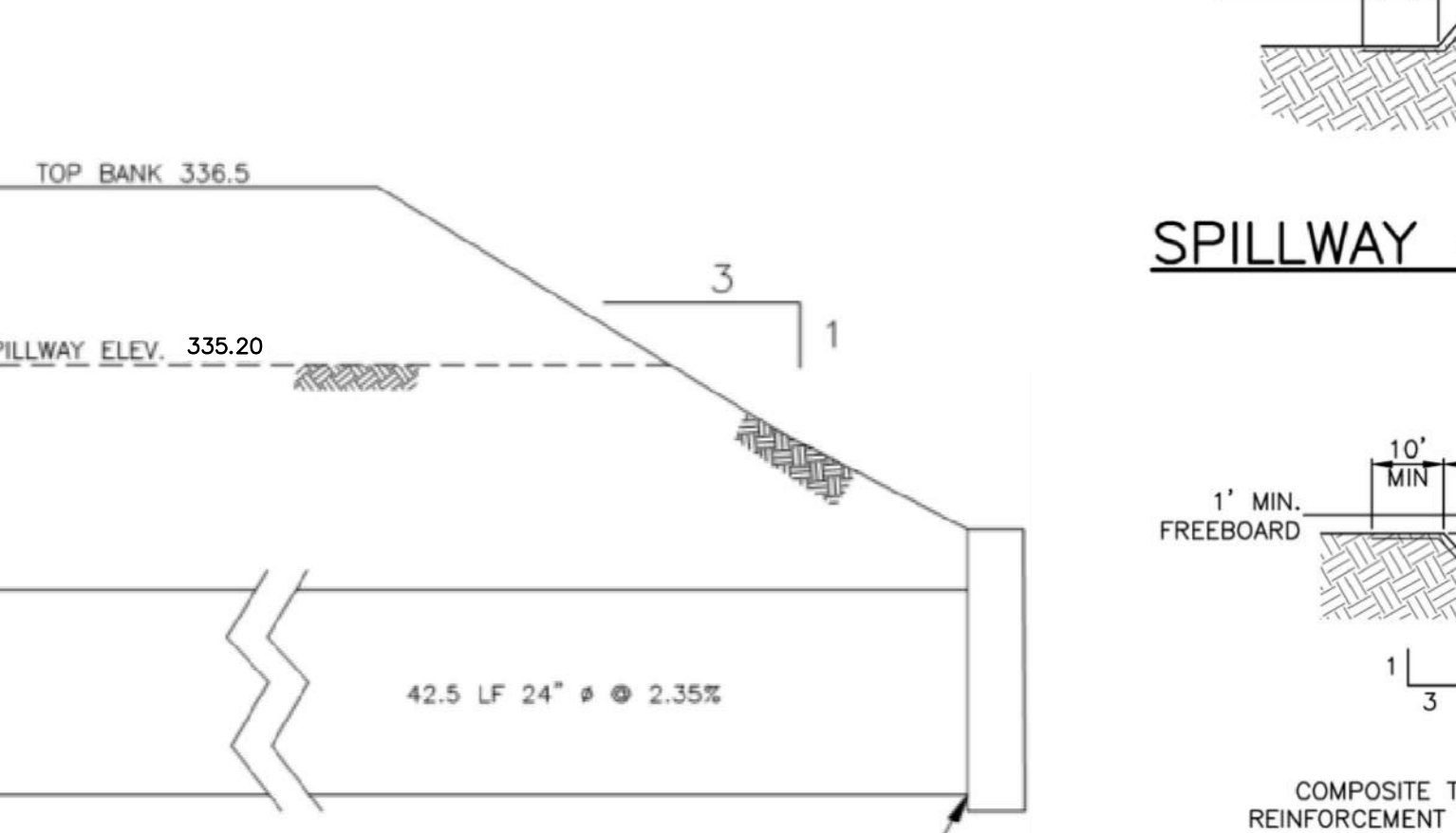
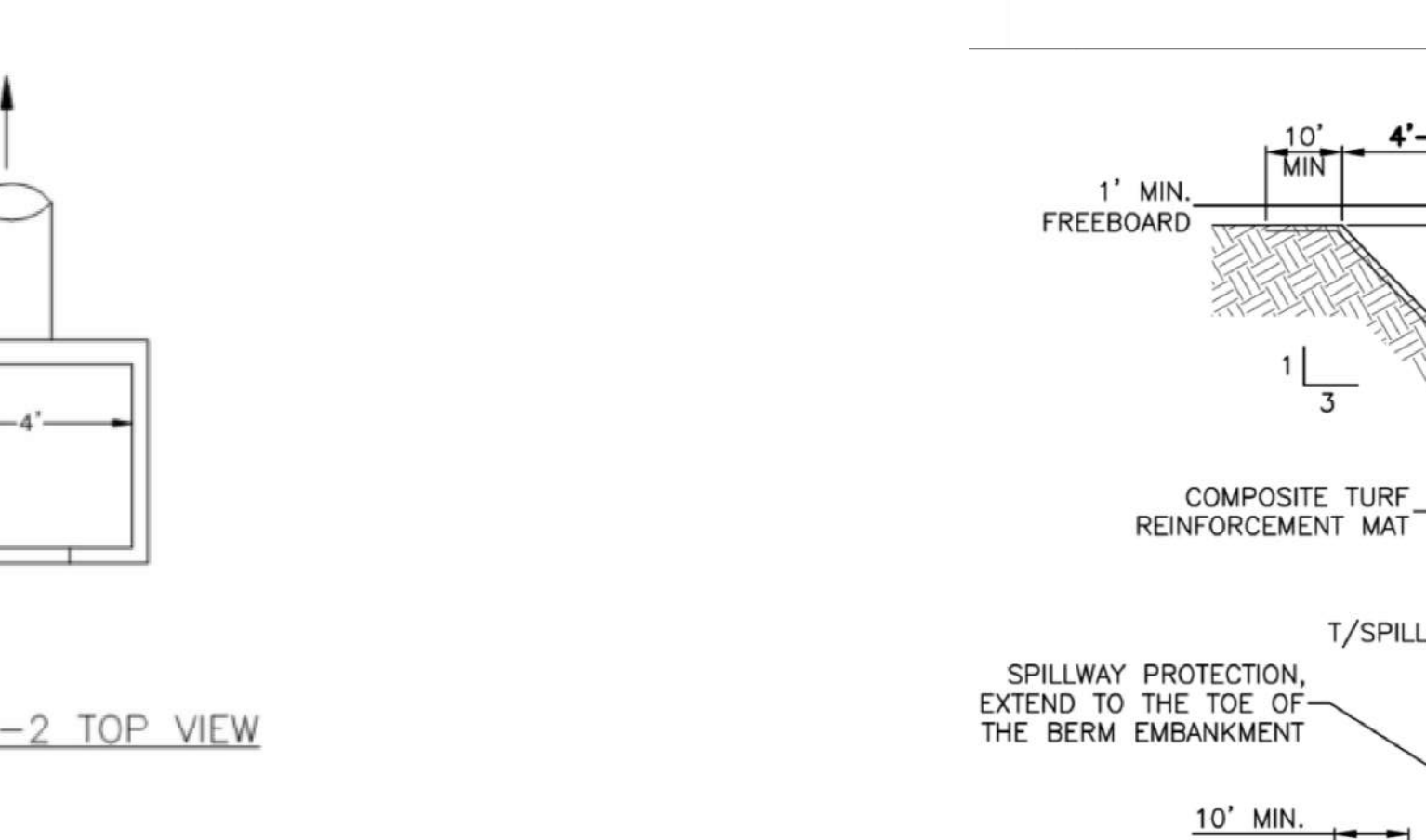


Basin #	100-YR WSE (SCS) (ft.)	Top of Berm (ft.)	Spillway Elev. (ft.)	Spillway Width (ft.)	Top Width (ft.)	100-YR Q (cfs)	Height (ft.)	Max. W.S.E.L. (ft.)	Freeboard Provided (ft.)
Basin A	333.15	335.00	333.50	80.00	89.00	94.99	0.59	334.09	0.91
Basin B	334.88	336.50	335.20	120.00	127.80	63.32	0.35	335.55	0.95
Basin C	363.39	366.00	365.00	50.00	56.00	15.43	0.24	365.24	0.76
Basin D	332.91	335.00	334.00	50.00	56.00	34.37	0.41	334.41	0.59

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
SWALE D-1 (INSTALL IN PH. 2)	ALL	4.00	2.00	16.00	3.00	3.00	NAG SC250

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
SWALE A-1 (INSTALLED IN PH. 1)	ALL	5.00	1.00	11.00	3.00	3.00	NAG 575/VEG
SWALE A-2 (INSTALLED IN PH. 1)	ALL	6.00	1.25	13.50	3.00	3.00	NAG 575/VEG
SWALE B-1 (INSTALLED IN PH. 1)	ALL	6.00	1.25	13.50	3.00	3.00	NAG 575/VEG
SWALE A-3 (INSTALLED IN PH. 1)	ALL	0.00	1.25	22.50	9.00	9.00	NAG 575/VEG
SWALE B-2 (INSTALLED IN PH. 1)	ALL	0.00	1.50	18.00	9.00	9.00	NAG 575/VEG

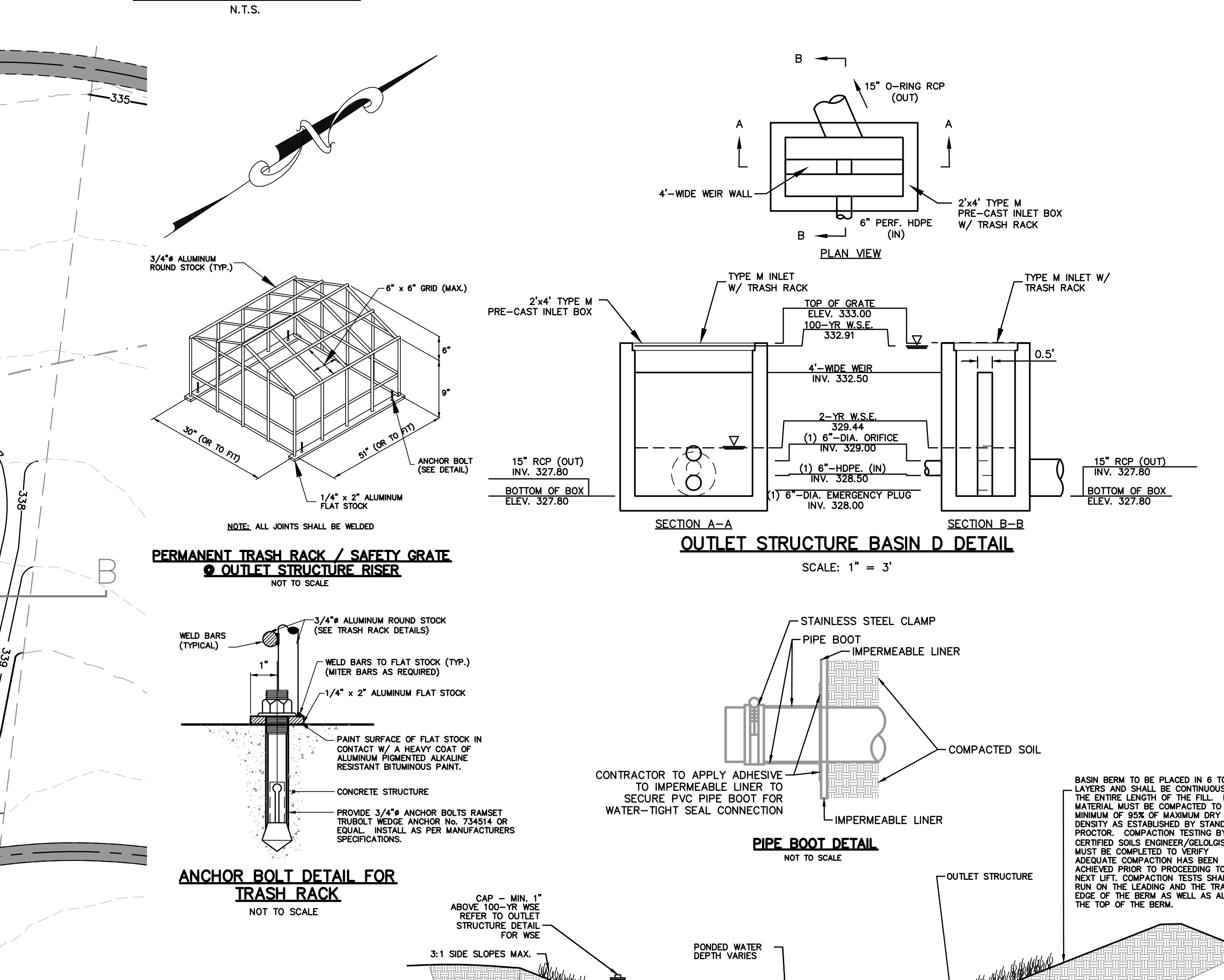
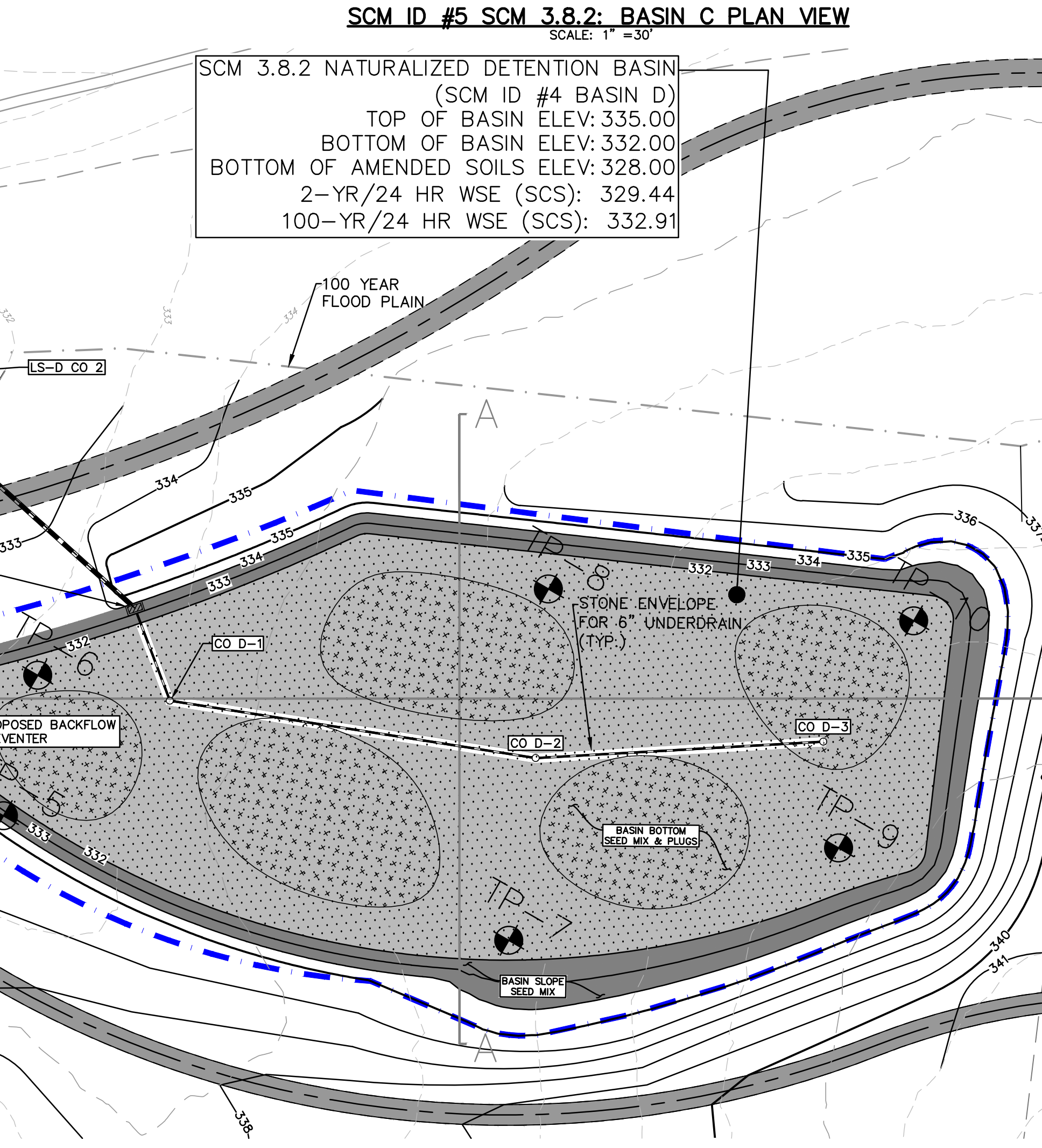
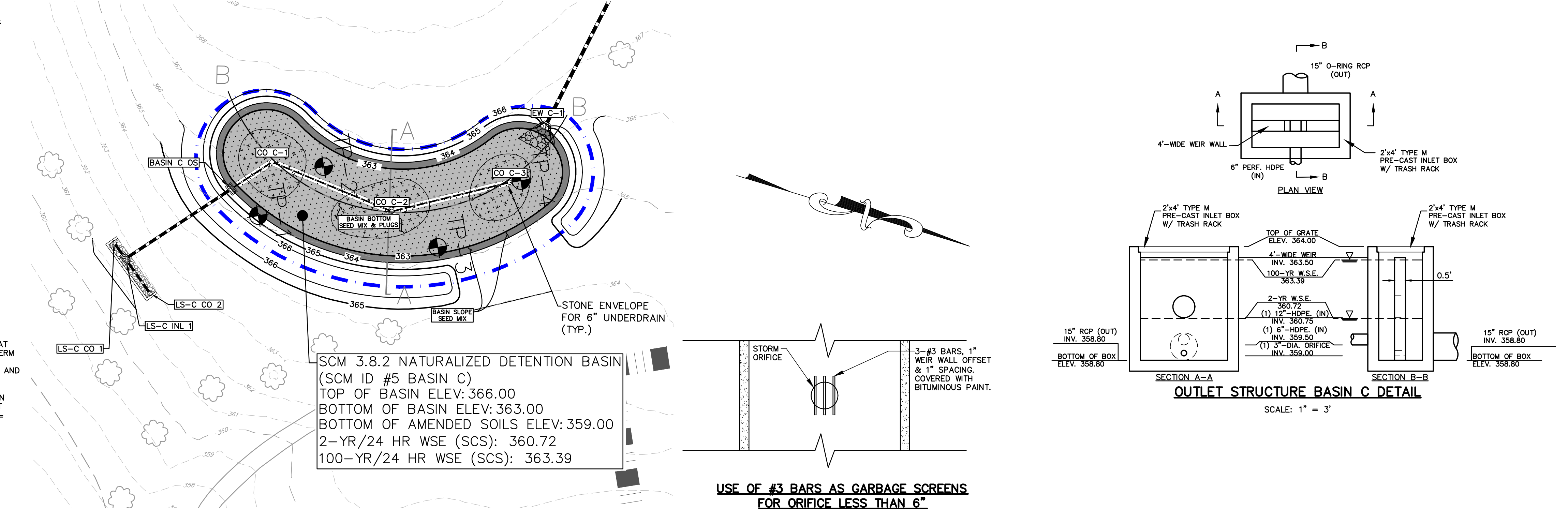
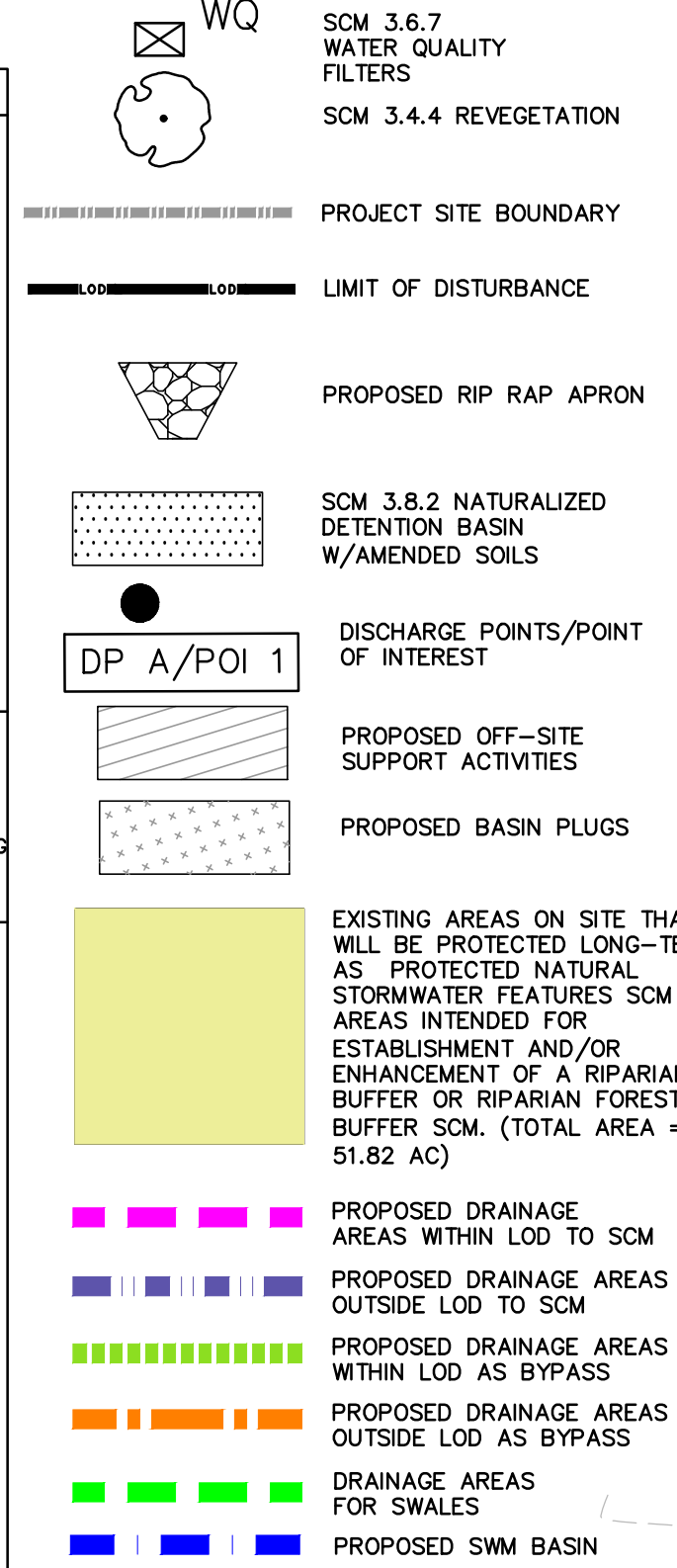
NOTE: SEED MIXES AS PROVIDED BY ERNEST CONSERVATION SEEDS, INC., (8884 MERCER PIKE, MEADVILLE, PA 16335; 1-800-873-3321) - OR APPROVED EQUAL.



LONG TERM OPERATION AND MAINTENANCE SCHEDULE

SCM TYPE	MAINTENANCE ACTIVITY & SCHEDULE
RE-VEGETATION (SCM 3.4.4)*	MEADOWS AND FORESTS ARE LOW MAINTENANCE BUT NOT NO MAINTENANCE. THEY USUALLY REQUIRE MORE FREQUENT MAINTENANCE IN THE FIRST FEW YEARS IMMEDIATELY FOLLOWING INSTALLATION. RE-VEGETATED AREAS PLANTED WITH A PROPER COVER CROP CAN BE EXPECTED TO REQUIRE ANNUAL MOWING IN ORDER TO CONTROL INVASIVES. APPLICATION OF A CAREFULLY SELECTED HERBICIDE (ROUNDUP OR SIMILAR GLYPHOSATE HERBICIDE) AROUND THE PROTECTIVE TREE SHELTERS/TUBES MAY BE NECESSARY, REINFORCED BY SELECTIVE CUTTING/MANUAL REMOVAL IF NECESSARY. THIS INITIAL MAINTENANCE ROUTINE IS NECESSARY FOR THE INITIAL 2 TO 3 YEARS OF GROWTH AND MAY BE NECESSARY FOR UP TO 5 YEARS UNTIL TREE GROWTH AND TREE CANOPY BEGINS TO FORM. NATURALLY INHIBITING WEED GROWTH (ONCE SHADING IS ADEQUATE GROWTH OF INVASIVES AND OTHER WEEDS WILL BE NATURALLY PREVENTED, AND THE WOODLAND BECOMES SELF-MAINTAINING). REVIEW OF THE NEW WOODLAND SHOULD BE UNDERTAKEN INTERMITTENTLY TO DETERMINE IF REMEDIATION TREATMENTS SHOULD BE PROVIDED (SOME MODEST RATE OF PLANTING FAILURE IS USUAL). MEADOW MANAGEMENT IS SOMEWHAT MORE STRAIGHTFORWARD. A SEASONAL MOWING OR BURNING MAY BE REQUIRED, ALTHOUGH CARE MUST BE TAKEN TO MAKE SURE THAT ANY MANAGEMENT IS COORDINATED WITH ESSENTIAL RESEEDING AND OTHER IMPORTANT ASPECTS OF MEADOW REESTABLISHMENT. IN THE FIRST YEAR WEEDS MUST BE CAREFULLY CONTROLLED AND CONSISTENTLY MOWED BACK TO 4-6 INCHES TALL WHEN THEY REACH 12 INCHES IN HEIGHT. IN THE SECOND YEAR, WEEDS SHOULD CONTINUE TO BE MONITORED AND MOWED. RHEUMATISMUS WEEDS SHOULD BE HAND TREATED WITH HERBICIDE. WEEDS SHOULD NOT BE SPRAYED WITH HERBICIDE AS THE DRIFT FROM THE SPRAY MAY KILL LARGE PATCHES OF DESIRABLE PLANTS, ALLOWING WEEDS TO MOVE IN TO THESE NEW AREAS. IN AN EVENT THAT HERBICIDE IS APPLIED IT SHOULD ONLY BE APPLIED BY A LICENSED APPLICATOR CERTIFIED IN PA CATEGORY ORB/AQUATIC PEST CONTROL. IN THE BEGINNING OF THE THIRD SEASON, THE YOUNG MEADOW SHOULD BE BURNED OFF IN MID-SPRING. IF BURNING IS NOT POSSIBLE, THE MEADOW SHOULD BE MOWED VERY CLOSELY TO THE GROUND INSTEAD. THE MOWED MATERIAL SHOULD BE REMOVED FROM THE SITE TO EXPOSE THE SOIL TO THE SUN. THIS HELPS ENCOURAGE RAINFALL SOIL WARMING WHICH FAVORS THE ESTABLISHMENT OF WARM SEASON PLANTS OVER COOL SEASON WEEDS.
NATURALIZED DETENTION BASIN (SCM 3.8.2)*	REMOVE SEDIMENT IF THE ACCUMULATION EXCEEDS ONE (1) INCH. ALL TRASH AND DEBRIS SHALL BE REMOVED, AS NECESSARY. PRUNE AND WEED AS NECESSARY. MULCH SHOULD BE RE-SPREAD ANNUALLY DURING EXTENDED PERIODS OF DROUGHT. WATER AS NECESSARY TO BE SPREAD ANNUALLY IN 72 HOURS. IF BASIN DOES NOT DE-WATER WITHIN 72 HOURS, PERFORM REMEDIATION MEASURES TO CORRECT THE PROBLEM. MULCH MAY NEED TO BE REPLACED ALONG WITH REPLANTING OF DISTURBED PLANTS. IF BASIN WITH UNDER DRAINAGE DOES NOT DE-WATER WITHIN 72 HOURS, OPEN END CAP UNTIL BASIN HAS DE-WATERED. AFTER DE-WATERING, END CAP SHALL BE RE-SEALED. A DE-WATERING AND DEBRIS CLEANING TEAM SHALL ALSO BE REQUIRED TO CLEAN OUT THE UNDER DRAINAGE, IF NECESSARY. ALL INSPECTIONS AND REPAIRS SHALL BE DOCUMENTED IN A WRITTEN REPORT.
VEGETATED SWALE (SCM 3.4.6)*	REMOVE SEDIMENT AND/OR DEBRIS IF ACCUMULATION EXCEEDS THREE (3) INCHES AT ANY SPOT OR IS COVERING VEGETATION. SIDE SLOPE EROSION SHALL BE REPAIRED AS NECESSARY. MOW AND TRIM VEGETATION TO ENSURE PROPER SWALE OPERATION. ALL INSPECTIONS AND REPAIRS SHALL BE DOCUMENTED IN A WRITTEN REPORT. • ALL VEGETATED SWALES SHOULD BE INSPECTED BI-ANNUALLY OR MORE FREQUENTLY AS NECESSARY. MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (> 1 INCH RAINFALL DEPTH): • INSPECT AND CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, AND SEDIMENT AND DEBRIS ACCUMULATION (ADDRESS WHEN > 3 INCHES AT ANY SPOT OR COVERING VEGETATION) • INSPECT VEGETATION ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, CORRECT AS NEEDED • INSPECT FOR POOLS OF STANDING WATER, DEWATER AND DISCHARGE TO AN APPROVED LOCATION AND RESTORE TO DESIGN GRADE • MOW AND TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER SWALE OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION. CORRECT CUTTINGS IN A LOCAL COMPOSTING FACILITY; MOW ONLY IN DRY WEATHER • INSPECT FOR LITTER; REMOVE PRIOR TO MOWING • INSPECT FOR UNIFORMITY IN CROSS-SECTION AND LONGITUDINAL SLOPE, CORRECT AS NEEDED • INSPECT SWALE INLET (CURB CUTS, PIPES, ETC.) AND OUTLET FOR SIGNS OF EROSION OR BLOCKAGE, CORRECT AS NEEDED MAINTENANCE ACTIVITIES TO BE DONE AS NEEDED IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT • RESEED BARE AREAS; INSTALL APPROPRIATE EROSION CONTROL MEASURES WHEN NATIVE SOIL IS EXPOSED OR EROSION CHANNELS ARE FORMING • ROTOTILL AND REPLANT SWALE IF DRAIN DOWN TIME IS MORE THAN 48 HOURS • INSPECT AND CORRECT CHANNEL SIGNS OF ALTERED WATER FLOW (CHANNELIZATION, OBSTRUCTIONS, EROSION, ETC.) ARE IDENTIFIED • WATER DURING DRY PERIODS, FERTILIZE, AND APPLY PESTICIDE ONLY WHEN ABSOLUTELY NECESSARY WINTER CONDITIONS ALSO NECESSITATE ADDITIONAL MAINTENANCE CONCERNS, WHICH INCLUDE THE FOLLOWING: • INSPECT SWALE IMMEDIATELY AFTER THE SPRING MELT; REMOVE RESIDUALS (E.G. SAND) AND REPLACE DAMAGED VEGETATION WITHOUT DISTURBING REMAINING VEGETATION • IF ROADSIDE OR PARKING LOT RUNOFF IS DIRECTED TO THE SWALE, MULCHING AND/OR SOIL AERATION/MANIPULATION MAY BE REQUIRED IN THE SPRING TO RESTORE SOIL STRUCTURE AND MOISTURE CAPACITY AND TO REDUCE THE IMPACTS OF ICEING AGENTS • USE NONTOXIC ORGANIC ICEING AGENTS, APPLIED EITHER AS BLENDED, MAGNESIUM CHLORIDE-BASED LIQUID PRODUCTS OR AS PRE-TREATED SAND • USE SALT-TOLERANT VEGETATION IN SWALES.
ABOVEGROUND INFILTRATION BASIN (SCM 3.5.2)*	1. ABOVEGROUND INFILTRATION BASIN A. LOOK VEGETATIVE COVERAGE BY HERBACEOUS SPECIES MUST BE MAINTAINED THROUGHOUT ALL AREAS OF THE BASIN GARDEN AND ALL OTHER AREAS OF GREAT DRAINAGE. THE TREATMENT STRATIFICATION MAY ALSO REDUCE THE STRUCTURAL INTEGRITY OF THE INFILTRATION BASIN. B. ALL VEGETATION THROUGHOUT ALL AREAS OF THE FACILITY MUST BE MOWED AT A MINIMUM OF TWO TO THREE TIMES PER YEAR. NO TREES ARE ALLOWED WITHIN THE FACILITY. MOWING SHOULD BE COMPLETED BY THE END OF OCTOBER. MOWING SHOULD BE COMPLETED BY THE END OF NOVEMBER AFTER ALL LEAVES HAVE FALLEN FROM THE TREES BUT PRIOR TO THE ONSET OF WINTER WEATHER CONDITIONS. ALL MAINTENANCE EVENTS SHALL BE CONDUCTED BY THE OWNER/OPERATOR. ANY PROBLEMS DURING THE MAINTENANCE EVENTS SHALL BE IMMEDIATELY CORRECTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED ABOVE. C. INSPECTION TASKS - TWO (2) ANNUAL INSPECTIONS WILL BE CONDUCTED BY THE OWNER/OPERATOR FOR THE LIFE OF THE FACILITIES. THESE INSPECTIONS WILL BE FOR ALL ITEMS LISTED FOR THE ROUTINE MAINTENANCE EVENTS. ALL BASIN INSPECTIONS WILL ADHERE TO THE SPECIFIC CRITERIA NOTED ABOVE. ANY PROBLEMS DURING INSPECTION SHALL BE IMMEDIATELY CORRECTED INCLUDING ANY AND ALL ROUTINE MAINTENANCE ITEMS. A CONSULTING ENGINEER SHALL BE CONTACTED IF THERE ARE ANY STRUCTURAL PROBLEMS BEYOND THE SCOPE OF ROUTINE MAINTENANCE. 2. MAINTENANCE SCHEDULE - REGULAR MAINTENANCE SHALL BE CONDUCTED ON AN AS NEEDED BASIS INCLUDING, BUT NOT LIMITED TO, MOWING OF VEGETATION, TRASH AND DEBRIS REMOVAL, REMOVAL AND REPAIRS OF PHYSICAL DAMAGE, TRASH, LEAF, AND DEBRIS REMOVAL, SHALL OCCUR IMMEDIATELY FOLLOWING A MAJOR STORM EVENT OR WHEN DAMAGED VEGETATION IS OBSERVED DURING THE FALL SEASON. INLETS CONNECTED TO THE FACILITY SHALL BE CHECKED AND CLEANED A MINIMUM OF ONE (1) TIME PER MONTH FOR LITTER AND OTHER DEBRIS WHICH MAY BLOCK PIPES. ALL REGULAR MAINTENANCE ITEMS SHALL BE COMPLETED ACCORDING TO THE PROCEDURES OUTLINED ABOVE. 3. ROUTINE MAINTENANCE - TWO (2) ROUTINE MAINTENANCE EVENTS SHALL BE CONDUCTED ANNUALLY BY THE OWNER/OPERATOR. THE FIRST EVENT WILL OCCUR IN MARCH OR APRIL AFTER THE SNOW PACK HAS COMPLETELY MELTED, AND THE SECOND WILL OCCUR IN OCTOBER OR NOVEMBER AFTER ALL LEAVES HAVE FALLEN FROM THE TREES BUT PRIOR TO THE ONSET OF WINTER WEATHER CONDITIONS. ALL MAINTENANCE EVENTS SHALL BE CONDUCTED BY THE OWNER/OPERATOR. ANY PROBLEMS DURING THE MAINTENANCE EVENTS SHALL BE IMMEDIATELY CORRECTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED ABOVE. 4. INSPECTION TASKS - TWO (2) ANNUAL INSPECTIONS WILL BE CONDUCTED BY THE OWNER/OPERATOR FOR THE LIFE OF THE FACILITIES. THESE INSPECTIONS WILL BE FOR ALL ITEMS LISTED FOR THE ROUTINE MAINTENANCE EVENTS. ALL BASIN INSPECTIONS WILL ADHERE TO THE SPECIFIC CRITERIA NOTED ABOVE. ANY PROBLEMS DURING INSPECTION SHALL BE IMMEDIATELY CORRECTED INCLUDING ANY AND ALL ROUTINE MAINTENANCE ITEMS. A CONSULTING ENGINEER SHALL BE CONTACTED IF THERE ARE ANY STRUCTURAL PROBLEMS BEYOND THE SCOPE OF ROUTINE MAINTENANCE.
WATER QUALITY FILTERS (SCM 3.6.7)*	DISPOSAL OF REMOVED MATERIAL WILL DEPEND ON THE NATURE OF THE DRAINAGE AREA AND THE INTENT AND FUNCTION OF THE WATER QUALITY FILTER. MATERIAL REMOVED FROM WATER QUALITY FILTERS THAT SERVE HOT SPOTS SUCH AS FUELING STATIONS OR THAT RECEIVE A LARGE AMOUNT OF DEBRIS SHOULD BE HANDLED ACCORDING TO DEP REGULATIONS FOR THAT TYPE OF SOLID WASTE, SUCH AS A LANDFILL THAT IS APPROVED BY DEP TO ACCEPT SOLID WASTE. WATER QUALITY FILTERS THAT PRIMARILY CATCH SEDIMENT AND DETRITUS FROM AREAS SUCH AS LAWNS MAY REUSE THE WASTE ON SITE. WINTER CONCERNS: THERE IS LIMITED DATA STUDYING COLD WEATHER EFFECTS ON WATER QUALITY INSERT EFFECTIVENESS. FREEZING MAY RESULT IN MORE RAINFALL AND SNOW PACKING. STRATIFICATION MAY ALSO REDUCE THE STRUCTURAL INTEGRITY OF THE INFILTRATION BASIN. DETENTION TIME: COLDER TEMPERATURES REDUCE THE SETTLING VELOCITY OF PARTICLES, WHICH CAN RESULT IN FEWER PARTICLES BEING REMOVED. SALT AND SAND ARE SIGNIFICANTLY INCREASED IN THE WINTER, WHICH MAY WARRANT MORE FREQUENT MAINTENANCE. SOMETIMES FREEZING MAKES ACCESSING DEVICES FOR MAINTENANCE DIFFICULT. REFER TO OPERATION AND MAINTENANCE SCHEDULE FOR INLET FILTERS ON MANUFACTURER'S WEBSITE.
SUB-SURFACE STORAGE BED (SCM 3.8.3)*	A SUB-SURFACE BASIN IS GENERALLY LESS MAINTENANCE INTENSIVE THAN OTHER PRACTICES OF ITS TYPE. GENERALLY SPEAKING, VEGETATION ASSOCIATED WITH SUBSURFACE BASIN PRACTICES IS LESS SUBSTANTIAL THAN PRACTICES SUCH AS RECHARGE GARDENS AND VEGETATED SWALES AND THEREFORE REQUIRES LESS MAINTENANCE. MAINTENANCE ACTIVITIES REQUIRED FOR THE SUBSURFACE BASIN ARE MAINLY FOCUSED ON REGULAR SEDIMENT AND DEBRIS REMOVAL. THE FOLLOWING REPRESENTS THE RECOMMENDED MAINTENANCE EFFORTS: • THE FOLLOWING SHALL BE INSPECTED AND CLEANED AT LEAST 2 TIMES PER YEAR. - MAINTENANCE CLEANOUT PORTS FOR USE 1-1 - INLETS 1-1 THROUGH 1-8 - OUTLET STRUCTURE U/S 1-8 • THE OVERLYING VEGETATION OF SUBSURFACE BASIN FEATURES SHALL BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS REVEGETATED AS SOON AS POSSIBLE. A LEVEL SPREADER SHALL BE INSPECTED AND CLEANED AT LEAST 2 TIMES A YEAR. REMOVE ACCUMULATED TRASH AND SEDIMENT FROM LEVEL SPREADER AREA. INSPECT THE STONE AND CONCRETE COMPONENTS TO ENSURE PROPER FUNCTIONALITY AND NO DAMAGE IS PRESENT. DAMAGE TO THE DOWNSTREAM AREAS ARE STABILIZED AND NO EROSION OR GULLIES ARE FORMING DUE TO STORMWATER CHANNELIZATION. IF BMP OR STRUCTURES ARE FOUND TO NOT BE FUNCTIONING AS INTENDED, FULL REPLACEMENT OF BMP AND/OR STRUCTURES SHALL BE NECESSARY. ALL INSPECTIONS REPAIRS AND REPLACEMENTS SHALL BE DOCUMENTED IN A WRITTEN REPORT.
STORM SEWERS	INSPECT ALL STORM SEWER PIPES, INLETS, MANHOLES, AND OUTFALLS ANNUALLY AND AFTER MAJOR STORM EVENTS. REMOVE SEDIMENT, LEAVES, TRASH, AND DEBRIS FROM INLETS, MANHOLES, AND PIPES WHEN ACCUMULATION EXCEEDS 3 INCHES OR RESTRICTS FLOW. REPAIR DAMAGED PIPES, JOINTS, FRAMES, GRATES, AND MANHOLE COVERS AS NEEDED TO MAINTAIN PROPER SYSTEM FUNCTION. KEEP INLET GRATES AND MANHOLE COVERS CLEAR AND ACCESSIBLE AT ALL TIMES. INSPECT OUTFALLS FOR EROSION, SCOUR, OR DISPLACED RIPRAP. REPAIR OR REPLACE PROTECTION AS REQUIRED. PERFORM PIPE CLEANING (JETTING/VAC) IF BLOCKAGES, ROOT INTRUSION, OR SEDIMENT BUILDUP REDUCE CAPACITY. *THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE PROPOSED SCMS.

PCSM LEGEND



Basin C Stage Storage Summary Table

Stage (ft)	Elevation (ft)	Contour Area (sf)	Incremental Storage (cf)	Total Storage (cf)
0.00	359.00	6323	0	0
0.40	359.40	6323	759	759
0.80	359.80	6323	759	1518
1.20	360.20	6323	759	2276
1.60	360.60	6323	759	3035
2.00	361.00	6323	759	3794
2.40	361.40	6323	759	4553
2.80	361.80	6323	759	5312
3.20	362.20	6323	759	6070
3.60	362.60	6323	759	6829
4.00	363.00	6323	759	7588
4.40	363.40	6323	63	7651
5.00	364.00	7533	6849	14501
6.00	365.00	8760	8138	22639
7.00	366.00	10044	9394	32033

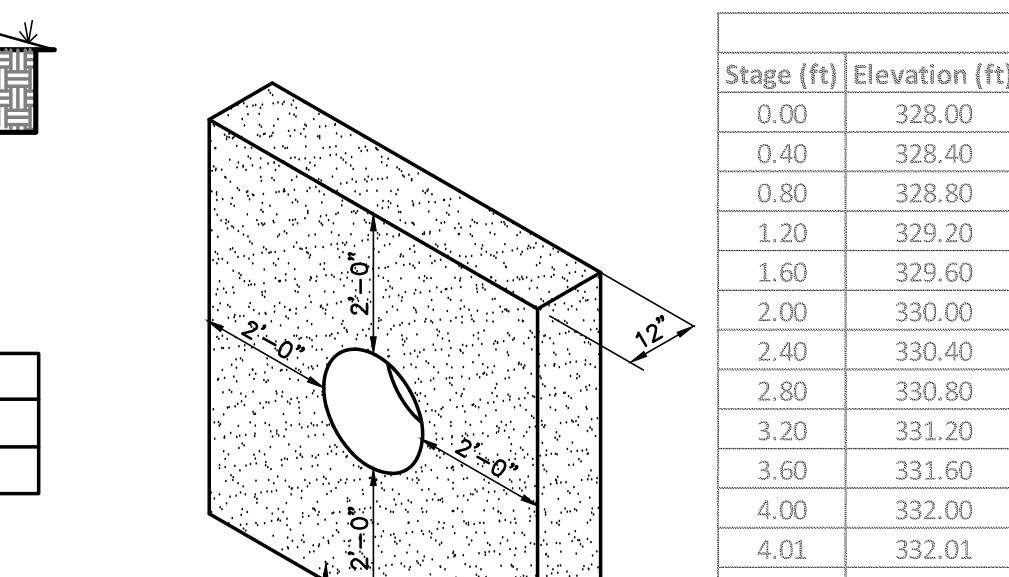
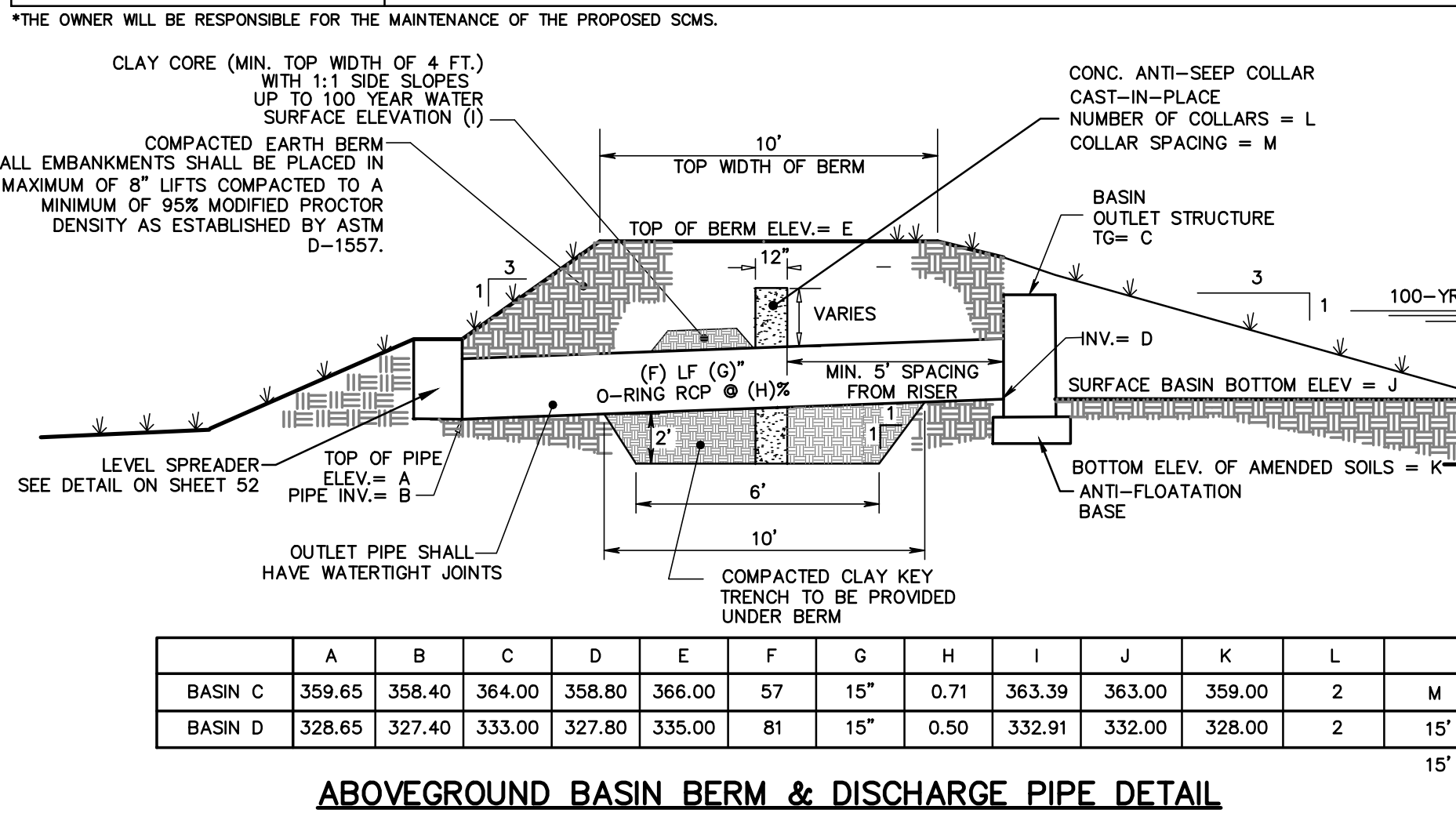
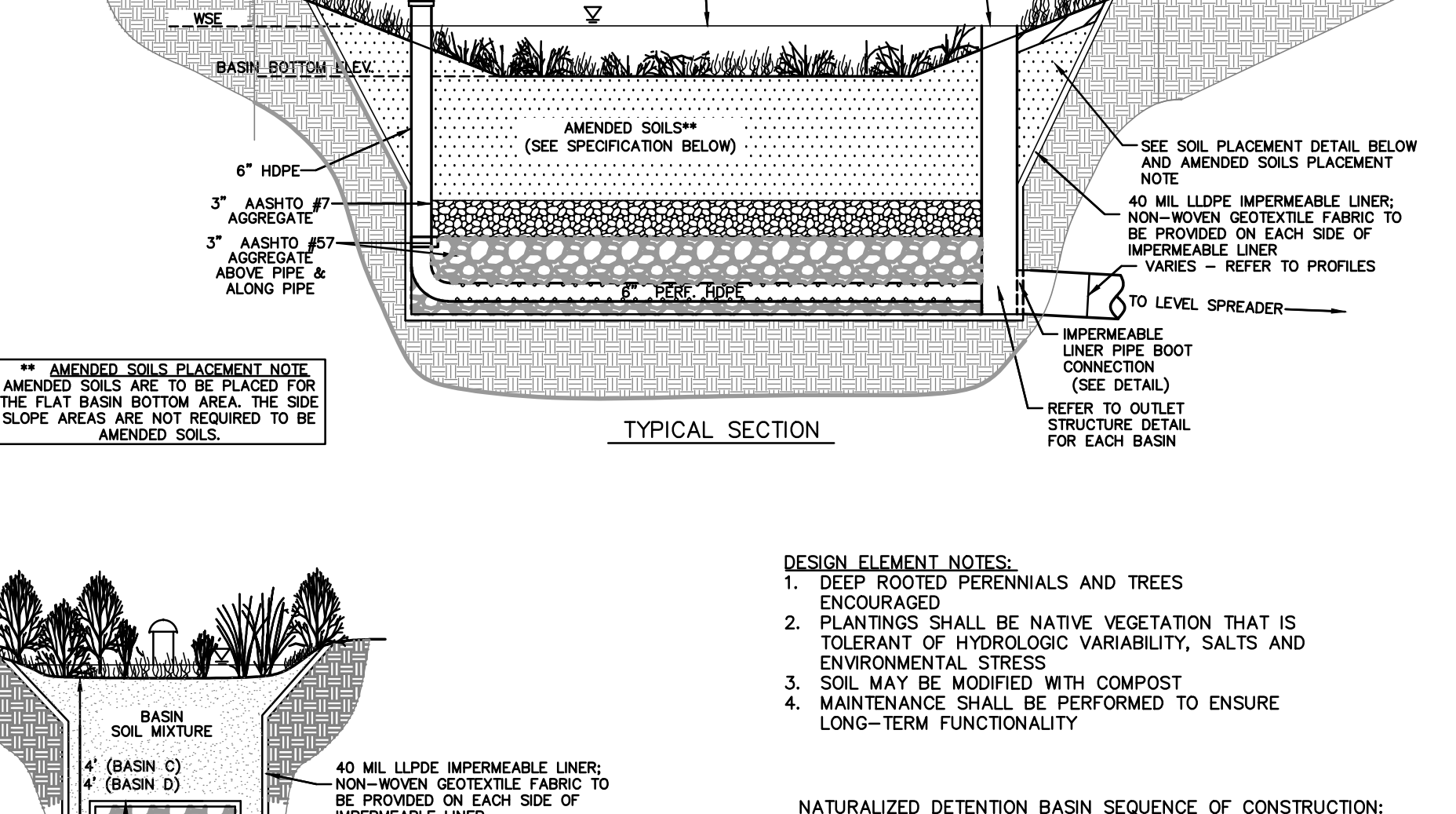
Basin D Stage Storage Summary Table

Stage (ft)	Elevation (ft)	Contour Area (sf)	Incremental Storage (cf)	Total Storage (cf)
0.00	328.00	27190	0	0
0.40	328.40	27190	3263	3263
0.80	328.80	27190	3263	6526
1.20	329.20	27190	3263	9789
1.60	329.60	27190	3263	13052
2.00	330.00	27190	3263	16314
2.40	330.40	27190	3263	19577
2.80	330.80	27190	3263	22839
3.20	331.20	27190	3263	26102
3.60	331.60	27190	3263	29365
4.00	332.00	27190	3263	32628
4.01	332.01	27190	272	32900
5.00	333.00	29837	29215	62115
6.00	334.00	32542	31226	93341
7.00	335.00	35688	34150	126491

BASIN C & D PLANTING SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	QTY BASIN C	QTY BASIN D	SIZE	ROOT NOTES	TOTAL PER SPECIES
HERBACEOUS PLUGS							
A	ASCLEPIAS INCARNATA	SWAMP MILKWEED	150	750	SOLP	PLUG 18" O.C.	900
AT	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	150	750	SOLP	PLUG 18" O.C.	900
AN	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	150	750	SOLP	PLUG 18" O.C.	900
CV	CAREX VULPINOIDEA	FOX SEDGE	200	800	SOLP	PLUG 18" O.C.	1000
EF	EUPATORIUM FISTULOSUM	JOE PYE WEED	150	750	SOLP	PLUG 18" O.C.	900
JC	JUNCUS EFFUSUS	COMMON RUSH	200	800	SOLP	PLUG 18" O.C.	1000
PE	PANICUM CLAUDIESTRUM	DEERTONGUE	200	800	SOLP	PLUG 18" O.C.	1000
TOTAL PLUGS			1200	5400			6600

NOTE: PLUG SPECIES SHALL BE IN MIXED GROUPING IN NOTED AREAS



NOTES:
1. FILL MATERIAL WILL BE PLACED IN SIX- TO EIGHT-INCH LAYERS AND SHALL BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. FILL MATERIAL MUST BE COMPACTED TO A MINIMUM DENSITY AS ESTABLISHED BY ASTM D-1557. TESTING BY A CERTIFIED SOIL ENGINEER/GEOLOGIST MUST BE COMPLETED AS DIRECTED BY THE TOWNSHIP ENGINEER TO VERIFY ADEQUATE COMPACTION HAS BEEN ACHIEVED.
2. ALL ABOVEGROUND BASINS SHALL BE CONSTRUCTED WITH A COMPACTED RELATIVELY IMPERVIOUS (UNIFIED SOIL CLASSIFICATION CL-ML OR CL) KEY TRENCH.

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

DATE: 12/11/25

NO.	REV.	DESCRIPTION	DATE	BY
1		REV. PER PLAN RECORDING	12/11/25	DL
2		REV. PER PLAN RECORDING	10/22/25	DL
3		REV. PER PLAN RECORDING	09/15/25	DL
4		REV. PER PLAN RECORDING	08/17/25	DL
5		REV. PER PLAN RECORDING	05/23/25	DL
6		REV. PER PLAN RECORDING	05/07/25	DL

EXTON PARK IMPROVEMENT PROJECT - PHASE 2

SITE IMPROVEMENT PLANS
WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

PSM NOTES & DETAILS (3)

MUNICIPAL FILE NO.: 41-2-84-11
TAX MAP PARCEL NO.: 174.32 AC
TOTAL AREA: 174.32 AC
SCALE: AS NOTED
DATE: 02/13/25
DRAWN BY: BH
CHECKED BY: DL

SHEET NO.: 54 OF 57

INDIVIDUAL SEQUENCE OF SCM INSTALLATION

THE PADEP CHAPTER 102 REGULATIONS WHICH BECAME EFFECTIVE NOVEMBER 19, 2010, REQUIRE A LICENSED PROFESSIONAL OR HIS/HER DESIGNEE TO BE PRESENT ON-SITE TO OBSERVE, INSPECT, AND SIGN-OFF ON THE CRITICAL STAGES OF THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (PCSM) IMPLEMENTATION AND FACILITY INSTALLATION. THE LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ON-SITE FOR THE FOLLOWING CRITICAL STAGES OF THE PCSM PLAN IMPLEMENTATION:

- INFILTRATION BASIN (SCM 3.5.2)
- NATURALIZED DETENTION BASIN (SCM 3.8.2)
- SUB-SURFACE STORAGE BED (SCM 3.8.3)
- VEGETATED SWALES (SCM 3.4.6)
- WATER QUALITY FILTERS (SCM 3.6.7)
- RE-VEGETATION (SCM 3.4.4)

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

AT LEAST 7 DAYS PRIOR TO START OF WORK OR EARTH DISTURBANCE ACTIVITIES, A PRE-CONSTRUCTION MEETING SHALL BE HELD INCLUDING THE OWNER, SITE CONTRACTOR, BOROUGH ENGINEER, BUCKS COUNTY CONSERVATION DISTRICT, AND THE PLAN DESIGNER.

INFILTRATION BASIN (SCM 3.5.2)-SEQUENCE OF INSTALLATION

1. PROTECT INFILTRATION BASIN AREA FROM COMPACTION PRIOR TO INSTALLATION.
2. DURING CONSTRUCTION THE CONTRACTOR MUST PREVENT SEDIMENTATION FROM ENTERING THE BASIN AREA. AFTER INSTALLATION, PREVENT SEDIMENT LAIDEN WATER FROM ENTERING INLETS AND PIPES.
3. INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
4. EXCAVATE INFILTRATION BASIN BOTTOM TO AN UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT COMPACT SUBGRADE.
5. INSTALL OUTLET CONTROL STRUCTURE.
6. SEED AND STABILIZE TOPSOIL (VEGETATE IF APPROPRIATE WITH NATIVE PLANTS).
7. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

NATURALIZED DETENTION BASIN (SCM 3.8.2)-SEQUENCE OF INSTALLATION

1. INSTALL TEMPORARY SEDIMENT CONTROL BMPs AS SHOWN ON THE PLANS.
2. COMPLETE SITE GRADING, IF APPLICABLE. CONSTRUCT CURB CUTS OR OTHER INFLOW ENTRANCE BUT PROVIDE PROTECTION TO THAT DRAINAGE STRUCTURE FROM ENTERING CONSTRUCTION AREA.
3. STABILIZE GRADING WITHIN THE LIMIT OF DISTURBANCE EXCEPT WITHIN THE BASIN AREA. BASIN BED AREAS MAY BE USED AS TEMPORARY SEDIMENT TRAPS PROVIDED THAT THE PROPOSED FINISH ELEVATION OF THE BED IS 12 INCHES LOWER THAN THE BOTTOM ELEVATION OF THE SEDIMENT TRAP.
4. EXCAVATE BASIN TO PROPOSED INVERT DEPTH AND SCARIFY THE EXISTING SOIL SURFACES. DO NOT COMPACT IN-SITU SOILS.
5. BACKFILL BASIN WITH AMENDED SOIL AS SHOWN ON PLANS AND SPECIFICATIONS. OVERLAPPING IS REQUIRED TO AVOID SETTLEMENT. LIGHT HAND TAMPING IS ACCEPTABLE IF NECESSARY.
6. PRESEAL THE PLANTING SLOT PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT.
7. COMPLETE FINAL GRADING TO ACHIEVE PROPOSED DESIGN ELEVATIONS, LEAVING SPACE FOR UPPER LAYER OF COMPOST MULCH OR SOIL AS SPECIFIED ON PLANS.
8. PLANT VEGETATION ACCORDING TO PLANTING PLAN.
9. MULCH AND INSTALL EROSION PROTECTION AT SURFACE FLOW ENTRANCES WHERE NECESSARY.

SUB-SURFACE STORAGE BED (SCM 3.8.3)-SEQUENCE OF INSTALLATION

1. DUE TO THE NATURE OF CONSTRUCTION SITES, THE BASIN SHOULD BE INSTALLED TOWARD THE END OF THE CONSTRUCTION PERIOD, IF POSSIBLE.
2. INSTALL AND MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES (AS PER THE PENNSYLVANIA EROSION AND SEDIMENT CONTROL PROGRAM MANUAL) DURING CONSTRUCTION.
3. THE EXISTING SUBGRADE UNDER THE BED AREAS SHOULD NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO GEOTEXTILE, IMPERMEABLE LINER, STONE BED, AND PIPE PLACEMENT.
4. WHERE EROSION OF SUBGRADE HAS CAUSED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE PONDING, THIS MATERIAL SHOULD BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE (OR EQUIVALENT) AND LIGHT TRACTOR. ALL FINE GRADING SHOULD BE DONE BY HAND. ALL BED BOTTOMS SHOULD BE AT LEVEL GRADE.
5. INSTALL GEOTEXTILE FABRIC, IMPERMEABLE LINER, OUTLET STRUCTURE, STORM PIPING, MAINTENANCE CLEANOUT/OBSERVATION PORTS, AND BACKFILL W/ STONE AS SPECIFIED. DO NOT COMPACT STONE OR BASIN BOTTOM. EQUIPMENT SHOULD NOT DRIVE OVER BASIN.
6. MAINTAIN INLET PROTECTION AND OTHER E&S CONTROLS UNTIL THE SITE IS FULLY STABILIZED.

VEGETATED SWALE (SCM 3.4.6)-SEQUENCE OF INSTALLATION

1. BEGIN VEGETATED SWALE CONSTRUCTION ONLY WHEN THE UPGRADIENT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. VEGETATED SWALES SHOULD BE CONSTRUCTED AND STABILIZED EARLY IN THE CONSTRUCTION SCHEDULE, PREFERABLY BEFORE MASS EARTHWORK AND PAVING INCREASE THE RATE AND VOLUME OF RUNOFF.
2. ROUGH GRADE THE VEGETATED SWALE. EQUIPMENT SHALL AVOID EXCESSIVE COMPACTION AND/OR LAND DISTURBANCE. EXCAVATING EQUIPMENT SHOULD OPERATE FROM THE SIDE OF THE SWALE AND NEVER ON THE BOTTOM.
3. CONSTRUCT CHECK DAMS, IF REQUIRED.
4. FINE GRADE THE VEGETATED SWALE.
5. SEED, VEGETATE AND INSTALL PROTECTIVE LINING AS PER APPROVED PLANS AND ACCORDING TO FINAL PLANTING LIST. PLANT THE SWALE AT A TIME OF YEAR WHEN SUCCESSFUL ESTABLISHMENT WITHOUT IRRIGATION IS MOST LIKELY. HOWEVER, TEMPORARY IRRIGATION MAY BE NEEDED IN PERIODS OF LITTLE RAIN OR DROUGHT. VEGETATION SHOULD BE ESTABLISHED AS SOON AS POSSIBLE TO PREVENT EROSION AND SCOUR.
6. ONCE ALL TRIBUTARY AREAS ARE SUFFICIENTLY STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS. IT IS VERY IMPORTANT THE SWALE BE STABILIZED BEFORE RECEIVING UPLAND STORMWATER FLOW.

WATER QUALITY FILTERS (SCM 3.6.7)-SEQUENCE OF INSTALLATION

1. STABILIZE ALL CONTRIBUTING AREAS BEFORE INSTALLING AND CONNECTING PIPES TO THESE INLETS.
2. REMOVE THE GRATE FROM THE CASTING OR CONCRETE DRAINAGE STRUCTURE. CLEAN THE LEDGE (LIP) OF THE CASTING FRAME OR DRAINAGE STRUCTURE TO ENSURE IT IS FREE OF STONE AND DIRT. DROP IN THE INLET FILTER THROUGH THE CLEAR OPENING AND BE SURE THE SUSPENSION HANGERS REST FIRMLY ON THE INSIDE EDGE (LIP) OF THE CASTING. REPLACE THE GRATE AND CONFIRM IT IS ELEVATED NO MORE THAN 1/8", WHICH IS THE THICKNESS OF THE STEEL HANGERS.
3. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION OF PROPOSED WATER QUALITY FILTERS.

RE-VEGETATION (SCM 3.4.4)

1. PLANT SELECTION
 - SELECT PLANTS THAT ARE WELL ADAPTED TO THE SPECIFIC SITE CONDITIONS. MEADOW PLANTS MUST BE ABLE TO OUTCOMPETE WEED SPECIES IN THE FIRST FEW YEARS AS THEY BECOME ESTABLISHED.
 - ALL WEEDS OR EXISTING VEGETATION MUST BE ELIMINATED PRIOR TO SEEDING.
 - PERENNIAL WEEDS MAY REQUIRE YEAR LONG SMOTHERING, REPEATED SPRAYINGS WITH HERBICIDES, OR REPEATED TILLAGE WITH EQUIPMENT THAT CAN UPROOT AND KILL PERENNIAL WEEDS.
2. PREPARE SITE
 - PLANTING CAN TAKE PLACE FROM SPRING THRU THROUGH JUNE 30 OR FROM SEPTEMBER 1 THROUGH SOIL FREEZE-UP (DORMANT SEEDING)
 - PLANTING IN JULY AND AUGUST IS GENERALLY NOT RECOMMEND DUE TO THE FREQUENCY OF DROUGHT DURING THIS TIME.
 - SEEDING CAN BE ACCOMPLISHED BY A VARIETY OF METHODS, NO-TILL SEEDER FOR MULTI-ACRE PLANTING, BROADCAST SEEDER, HAND BROADCAST FOR SMALL AREAS OF ONE ACRE OR LESS.
 - SEED QUALITY IS CRITICAL AND A SEED MIX SHOULD BE USED WITH A MINIMUM PERCENTAGE OF NON-SEED PLANT PARTS.
3. SITE MAINTENANCE (ADDITIONAL INFORMATION BELOW)
 - ASSIGN RESPONSIBILITIES FOR WATERING, WEEDING, MOWING, AND MAINTENANCE
 - MONITOR SITE REGULARLY FOR GROWTH AND POTENTIAL PROBLEMS



Stormwater Protector Inlet Filter Life Operation and Maintenance Plan

1.0 Identification of Drainage Structures to Determine Stormwater Protector Inlet Filter system:
 1.1 The Installer (Contractor) shall inspect the plans and/or conduct site visits to determine the catch basin drainage structure casing type. The exact grate size and clear opening size will provide the information necessary to identify the properly size Stormwater Protector Inlet Filter system. Stormwater Protector Inlet Filter systems are supplied to the field pre-configured to fit the specified drainage structure.

2.0 Installation into Standard Grated Catch Basin Drainage Structures:
 2.1 Remove the grate from the casting or concrete drainage structure. Clean the ledge (lip) of the casting frame or drainage structure to ensure it is free of stone and dirt. Drop in the Stormwater Protector Inlet Filter Lower Frame assembly through the clear opening and be sure the 304 stainless steel frame rests firmly on the inside ledge (lip) of the casting.

2.2 Insert the Filter Basket Rings with Filter Fabric into the Lower Frame assembly hangers.

2.3 Place the Stormwater Protector Inlet Filter Upper Frame on top of the Lower Frame assembly and replace the grate. Confirm the grate is elevated no more than 1/8".

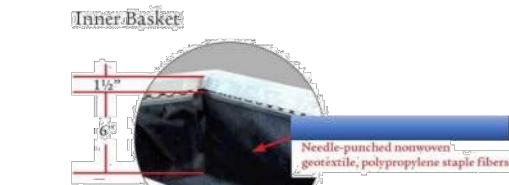
3.0 Inspection/Operation and Maintenance Guidelines:
 3.1 The frequency of maintenance will vary depending on the application (during construction, post construction, or industrial use), the area of installation (relative to grade and runoff exposure), and the time of year relative to the geographic location (infrequent rain, year-round rain, rain and snow conditions).

3.1.1 Frequency of Inspections: Construction site inspection should occur following each 1/2" or more rain event. Post Construction inspections should occur three times per year (every four months) in areas with year-round rainfall and four times per year (every three months) in areas with rainy seasons before and after snowfall season. Industrial application site inspections (loading racks, wash racks, maintenance facilities) should occur on a regularly scheduled basis no less than three times per year.

3.1.2 General Maintenance for filter bags: Remove the grate and remove the Upper Frame. Lift out the Filter Basket Ring from the Lower Frame assembly. Machine or other mechanical assistance is not required. The filter fabric is to be removed when it is half full of sediment or as directed by the owner and/or engineer and replaced with a fresh filter fabric. The filter fabric being removed shall be disposed, along with the sediment or debris, at a DEP approved disposal site. After the filter fabric is replaced, place the oil absorbent booms in the Filter Basket. Place the Filter Basket Ring back into the Lower Frame assembly hangers. Place the Upper Frame back on top of the Lower Frame assembly and then place the grate in its final position and confirm that it is elevated no more than 1/8".

Your Quality Inlet Filter

US Patent #9,863,865
 With SKAPS GT-16
 Dimensions/Specifications



SKAPS GT-16 is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. GT-160 resists ultraviolet deterioration, rotting, biological degradation, naturally encountered basins and acids. Polypropylene is stable within a pH range of 2 to 13. GT-160 conforms to the physical property values listed below:

Property	Test Method	UNIT	M.A.R.V.	Metric
Nominal Weight	ASTM D5261	oz/yd ²	6.0	6.0 (203)
Grab Tensile	ASTM D4652	Lbs (kn)	160 (0.712)	175 (0.789)
Grab Elongation	ASTM D4652	%	50	50
Trapezoid Tear Strength	AMST D4533	lb (kg)	60 (0.267)	80 (0.356)
Puncture Resistance	ASTM D4853	Lbs (kn)	90 (0.400)	100 (0.445)
CIR Puncture Resistance	ASTM D6241	Lbs (kn)	410 (1.822)	490 (2.250)
Million Burst Strength	ASTM D3786	Psi (kpa)	305 (2103)	340 (2347)
Permeability*	ASTM D4491	Insec	1.5	1.8
Permeability*	ASTM D4491	Cm/sec	0.3	0.4
Water Flow*	ASTM D4491	Gpm/(Vt)(um/min)	110 (4480)	135 (5300)
ACS*	ASTM D4751	US Sieve (mm)	70 (2.12)	70-1000 (212-150)
UV Resistance	ASTM D4355	%ches	70/900	80/900

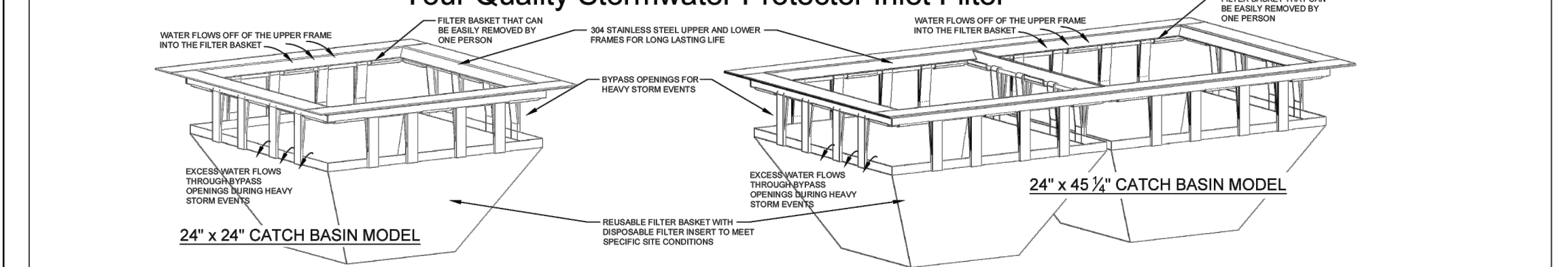
Your Quality Inlet Filters are an important part of the standard Best Management Practices (BMPs) that should always be implemented to reduce surface water pollution from construction stormwater runoff. They are specifically designed to help retain the sediment and debris that can be dislodged and suspended in flows during rain events, utilizing this form of inlet protection can reduce the potential impacts of sedimentation.

Your Quality Inlet Filters Reduce job-site flooding and keep projects running, minimize residential complaints with cleaner, dryer streets during all construction phases, prevents hazardous road icing conditions by eliminating ponding at curb inlets, significantly reduce cleanup cost, prevent siltation and pollution of rivers, lakes, and ponds.



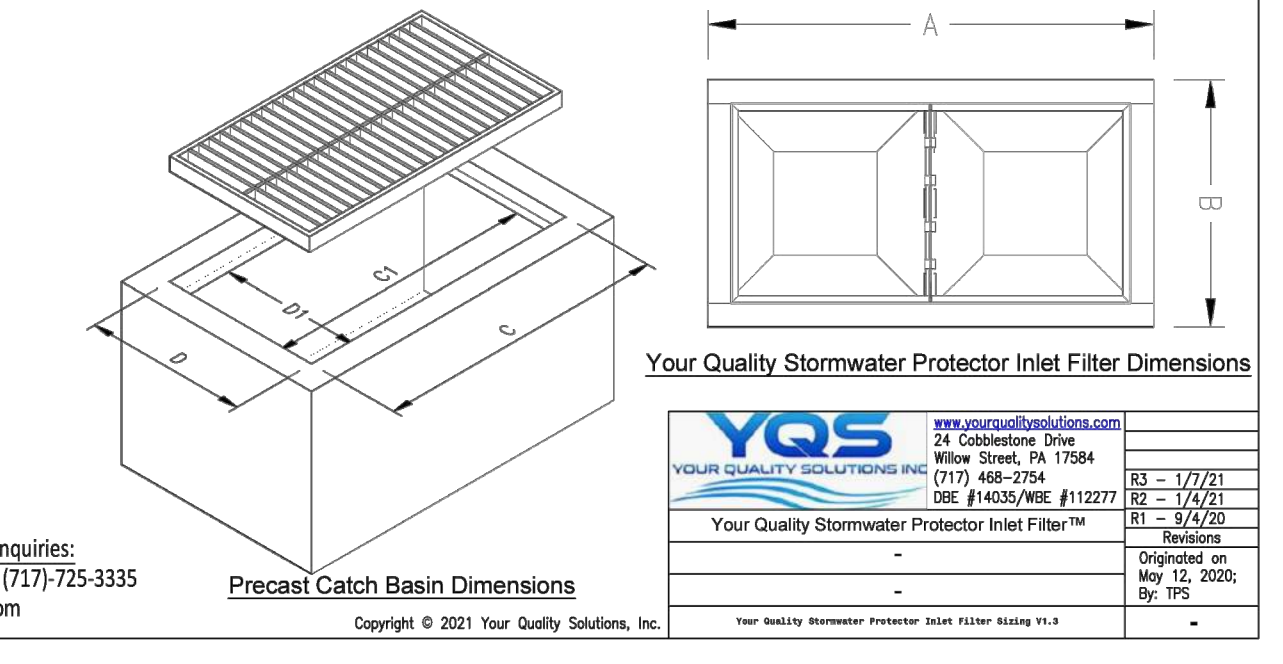
Your Quality Solutions, Inc.
 Business Office 717-468-2754 - Sales Office 717-725-3335
 www.yourqualitysolutions.com
 jsales@yourqualitysolutions.com

Your Quality Stormwater Protector Inlet Filter™



Filter Size	A	B	C	D	CL	D1	D2	TSS	Phosphorus	Nitrogen
12 x 12	12.75	12.75	13.25	13.25	11.00	11.00	11.00	95%	84%*	74%*
24 x 24	26.31	26.31	27.00	27.00	24.00	24.00	24.00	95%	84%*	74%*
24 x 48	26.06	47.50	27.00	48.25	24.00	45.25	24.00	95%	84%*	74%*
28 x 72	26.38	74.50	27.00	75.00	24.00	72.00	24.00	95%	84%*	74%*

*Custom Sizes are always available!
 *based on 100% capture of leaves, vegetation and organic debris and routine maintenance practices involving removal of inlet filter fabric with captured material. "Evaluation of Leaf Removal in Urban Stormwater" William R. DeGisi, Science of Total Environment, Volume 573, 15 November 2016, pp 124-133



WATER QUALITY INLET FILTER LOCATIONS

STRUCT. NO.	STRUCT. TYPE
INL A-4	TYPE 'M'
INL A-5	TYPE 'M'
INL A-6	TYPE 'M'
INL A-7	TYPE 'M'
INL C-1	TYPE 'M'
INL E-1	TYPE 'M'
INL E-2	TYPE 'M'
INL E-3	TYPE 'M'
INL E-4	TYPE 'M'
INL E-5	TYPE 'M'
INL E-6	TYPE 'M'

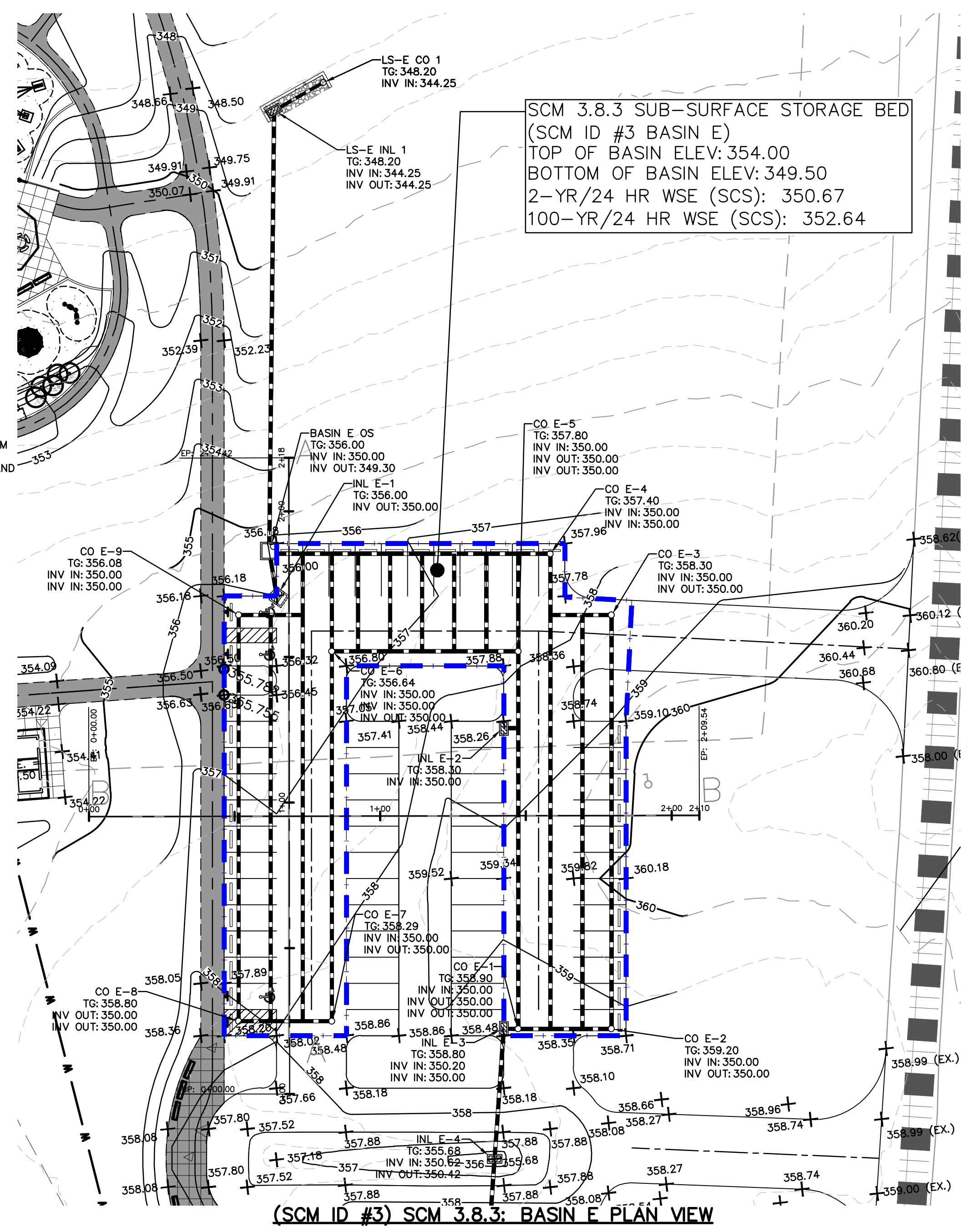
Basin E Stage Storage Summary Table

Stage (ft)	Elevation (ft)	Contour Area (sf)	Incremental Storage (cf)	Total Storage (cf)
0.00	349.50	15784	0	0
0.50	350.00	15784	2367	2367
1.50	351.00	15784	4735	7102
2.50	352.00	15784	4735	11837
3.50	353.00	15784	4735	16572
4.50	354.00	15784	4735	21306

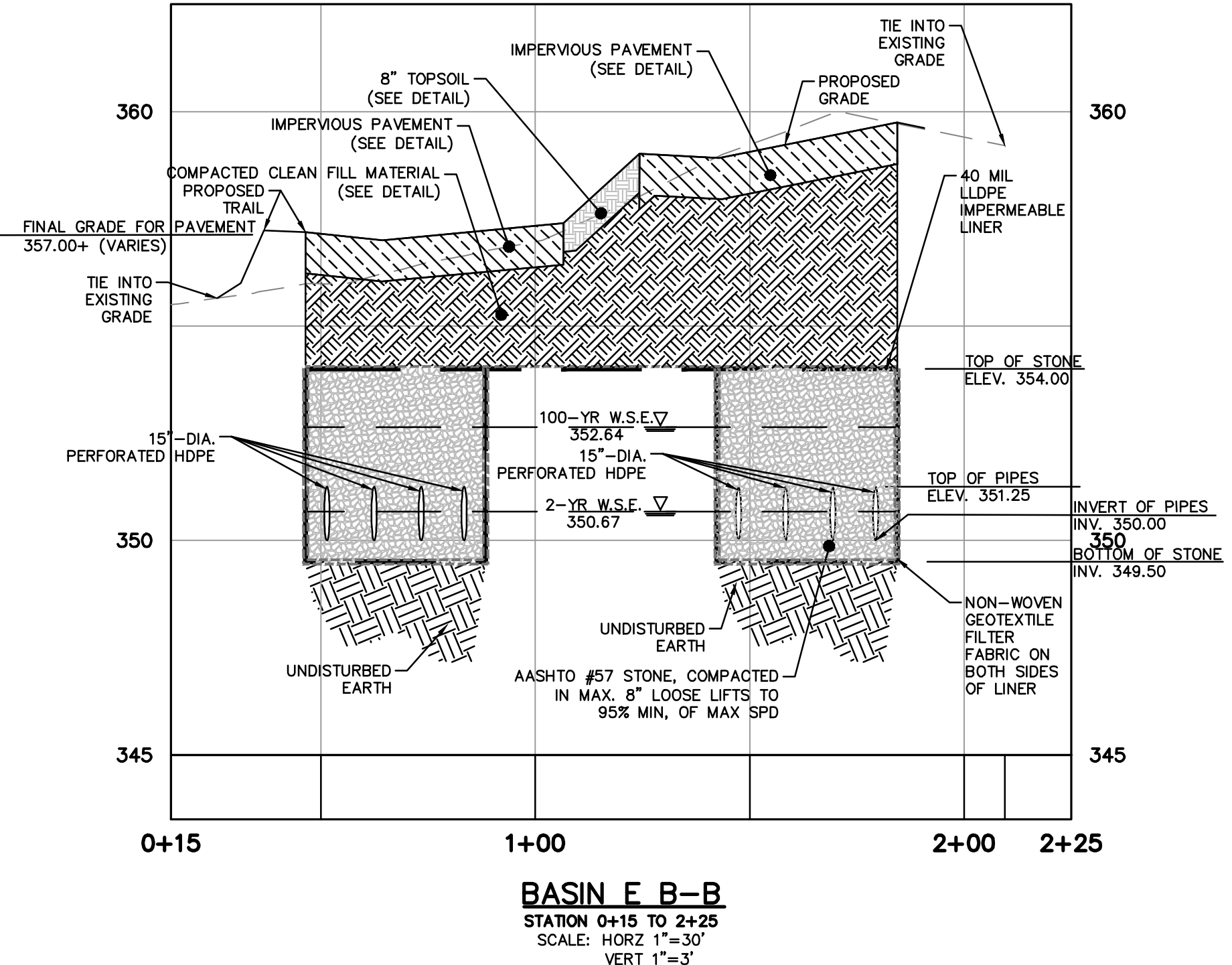
GENERAL NOTES:

1. ALL CONCRETE STRUCTURES LOCATED WITHIN THE FOOTPRINT OF THE SUB-SURFACE STORAGE BED ARE TO BE INSTALLED IN A MANNER SUCH THAT THEY SIT ON THE IMPERMEABLE LINER.

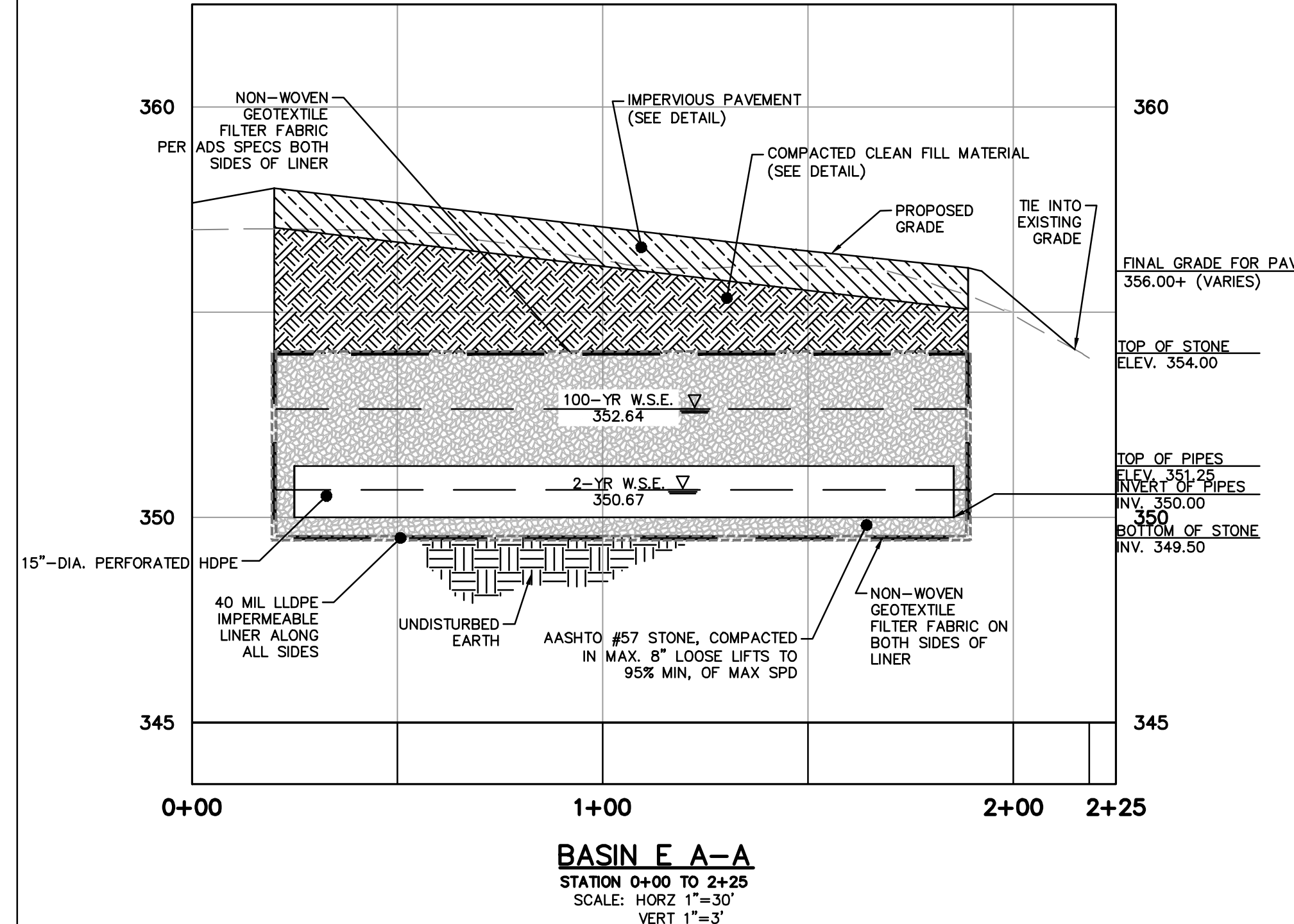
BASIN ID	BOTTOM OF BASIN ELEVATION	TOP OF BASIN ELEVATION	2-YR/24-HR WSE (SCS)	100-YR/24-HR WSE (SCS)
BASIN-E	349.50	354.00	350.67	352.64



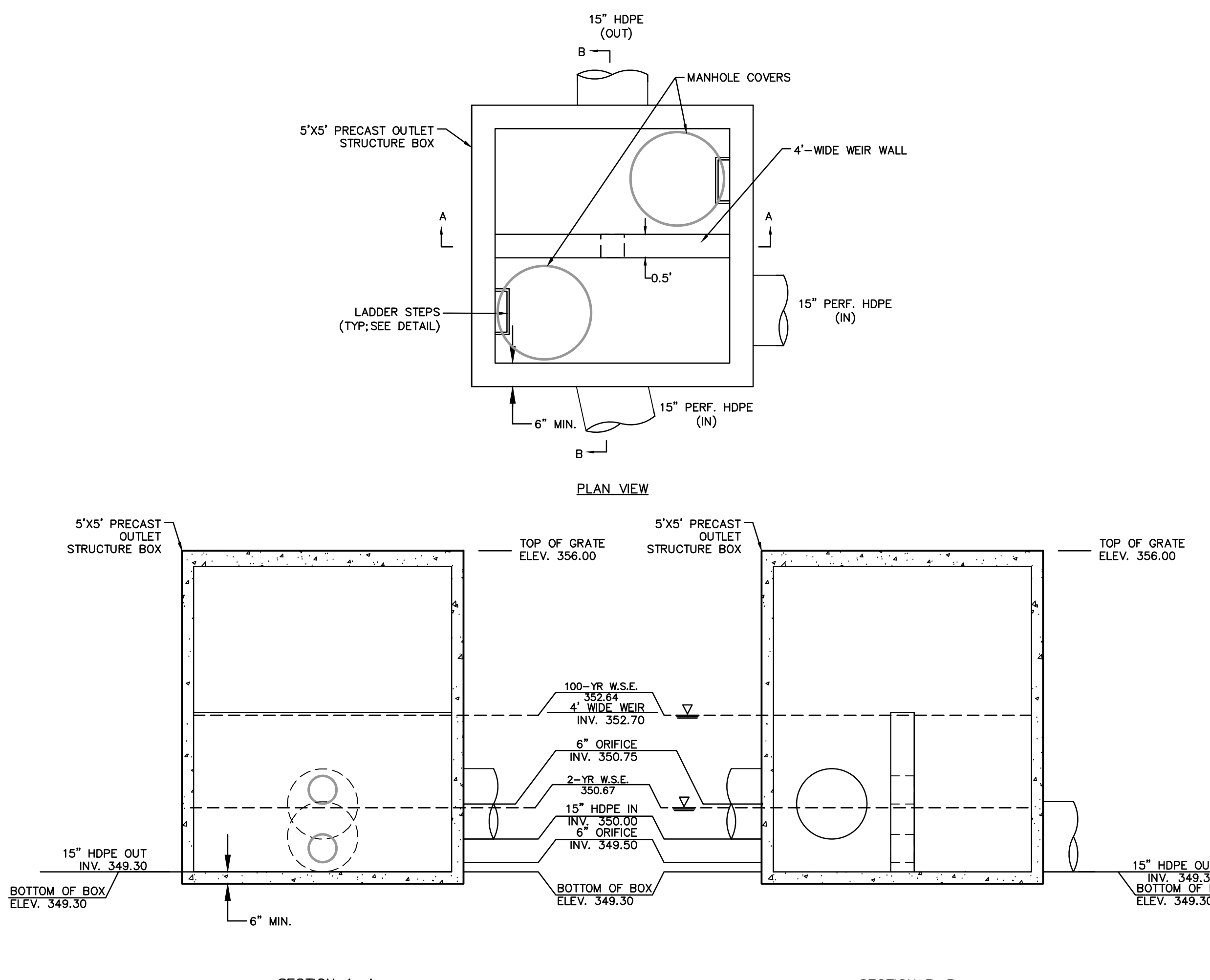
(SCM ID #3) SCM 3.8.3: BASIN E PLAN VIEW
 SCALE: 1" = 30'



BASIN B-B
 STATION 0+15 TO 2+25
 SCALE: HORIZ 1"=30'
 VERT 1"=3'

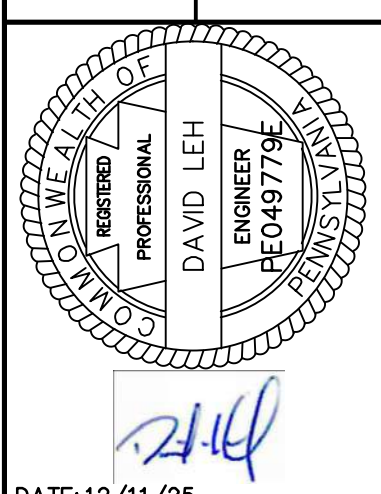


BASIN A-A
 STATION 0+00 TO 2+25
 SCALE: HORIZ 1"=30'
 VERT 1"=3'



BMP OS E-1
 SCALE 1"=2'

GILMORE & ASSOCIATES, INC.
 ENGINEERING & CONSULTING SERVICES
 1011 MARKET STREET, SUITE 201, THOMPSON, PA 15084-1011
 ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND USED. THIS PLAN IS HEREBY MODIFIED, REVISION, DUBLICATION OR USE WITHOUT THE WRITTEN AUTHORIZATION OF GILMORE & ASSOCIATES, INC. AS PROHIBITED BY LAW.
 COPYRIGHT 2024 BY GILMORE & ASSOCIATES, INC.



DATE: 12/11/25

NO.	REV.	DESCRIPTION	DATE	BY
6	REV. PER PLAN RECORDING		12/11/25	DL
5	REV. PER COORD. LTR. & TWP REVIEW LTR.		10/22/25	DL
4	REV. PER COORD. LTR. & TWP REVIEW LTR.		09/15/25	DL
3	REV. PER COORD. LTR. & TWP REVIEW LTR.		06/17/25	DL
2	REV. PER COORD. LTR. & TWP REVIEW LTR.		05/23/25	DL
1	REV. PER TWP REVIEW LTR.		05/07/25	DL

EXTON PARK IMPROVEMENT PROJECT - PHASE 2
 WEST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA
 PCSM NOTES & DETAILS (4)



PROJECT NO.: 2307048
 OWNERS INFO:
 WEST WHITELAND TOWNSHIP
 101 COMMERCE DRIVE
 EXTON, PA 19341
 610-363-9525

MUNICIPAL FILE NO.:
 TAX MAP PARCEL NO.: 41-2-84.11
 TOTAL AREA: 174.32 AC.
 TOTAL LOTS: 1
 DATE: 02/13/25
 DRAWN BY: BH
 CHECKED BY: DL

SHEET NO.: 55 OF 57