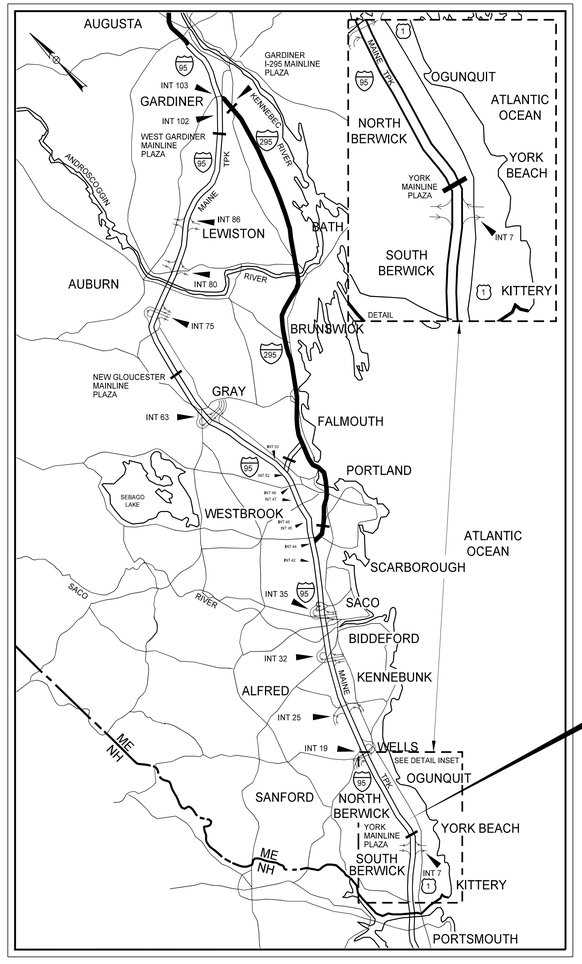


LOCATION MAP

York Toll Plaza
(MM 8.8)

MAINE TURNPIKE

THE GOLD STAR
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
ROBERT D. STONE, VICE CHAIR
MICHAEL J. CIANCHETTE, MEMBER
BRYAN P. CUTCHEN, MEMBER
JOHN E. DORITY, MEMBER
FREEMAN R. GOODRICH, MEMBER
KAREN S. DOYLE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PRE-WATERSHED PLAN of YORK TOLL PLAZA REPLACEMENT PROJECT
3	PRE-WATERSHED PLAN of YORK TOLL PLAZA REPLACEMENT PROJECT
4	POST-WATERSHED PLAN of YORK TOLL PLAZA REPLACEMENT PROJECT
5	POST-WATERSHED PLAN of YORK TOLL PLAZA REPLACEMENT PROJECT
6	WATERSHED PLAN of CHASES POND & CAPE NEDDICK RIVER
7-28	STORMWATER TREATMENT PLANS
29	ACCESS ROAD BUFFER/TREATMENT PLAN
30-34	STORMWATER PONDS
-	ACCESS ROAD GRADING AND DRAINAGE PLANS
-	ADMINISTRATIVE BUILDING GRADING PLAN
-	ADMINISTRATIVE BUILDING DRAINAGE PLAN
-	DETAILS

YORK TOLL PLAZA
MM 7.0 to MM 9.5
CONTRACT 2017.09

STORMWATER MANAGEMENT PLAN
APPENDIX 1

JACOBS®

SEBAGO TECHNICS
CIVIL ENGINEERING • SURVEYING • LANDSCAPE ARCHITECTURE

STATE OF MAINE
DANIEL L RILEY
No. 9664
PROFESSIONAL ENGINEER

DANIEL L. RILEY, SR. PROJECT MANAGER

10/17/2016
DATE

PERMITTING PLANS
10/17/2016

Date:10/17/2016

Filename: ...\MSTA\001_SWMP_Title_01.dgn



MATCH LINE SEE SHEET 3 OF 34

DANIEL L. RILEY

STATE OF MAINE
DANIEL L RILEY
No. 10467
REGISTERED PROFESSIONAL ENGINEER
10-17-2016

DESIGNED	CHECKED
DLR	PDO

REV:	BY:	DATE:	STATUS:
A	GJH	10-17-16	ISSUED FOR PERMIT APPLICATION

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-9656

PRE WATERSHED PLAN
OF:
YORK TOLL PLAZA
REPLACEMENT PROJECT
FOR:
MAINE TURNPIKE AUTHORITY
2360 CONGRESS STREET
PORTLAND, ME 04102

PROJECT NO.	SCALE
14181	1" = 300'

SHEET 2 OF 34

14181.watershed PRE_2016-10-17.dwg, TAB:PRE1 (22X34)

MATCH LINE SEE SHEET 2 OF 34

GRID N

GRAPHIC SCALE

300 0 150 300 600

(IN FEET)
1 INCH = 300FT.

LEGEND

- WATERSHED BOUNDARY
- 1 — WATERSHED LABEL
- 1 — REACH
- 1 — DETENTION POND
- HYDROLOGIC SOIL GROUP A
- HYDROLOGIC SOIL GROUP B
- HYDROLOGIC SOIL GROUP C
- HYDROLOGIC SOIL GROUP D

DANIEL L. RILEY

STATE OF MAINE
DANIEL L RILEY
No. 10464
PROFESSIONAL ENGINEER
10-17-2016

DESIGNED	CHECKED
DLR	PDO

REV:	BY:	DATE:	STATUS:
A	GJH	10-17-16	ISSUED FOR PERMIT APPLICATION

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-9636

PRE WATERSHED PLAN
OF:
YORK TOLL PLAZA
REPLACEMENT PROJECT
FOR:
MAINE TURNPIKE AUTHORITY
2360 CONGRESS STREET
PORTLAND, ME 04102

PROJECT NO.	SCALE
14181	1" = 300'

SHEET 3 OF 34

14181_watershed PRE_2016-10-17.dwg, TAB:PRE2 (22X34)

LEGEND

- WATERSHED BOUNDARY
- 1 — WATERSHED LABEL
- 1 — REACH
- 1 — DETENTION POND
- HYDROLOGIC SOIL GROUP A
- HYDROLOGIC SOIL GROUP B
- HYDROLOGIC SOIL GROUP C
- HYDROLOGIC SOIL GROUP D

GRAPHIC SCALE

300 0 150 300 600

(IN FEET)
1 INCH = 300FT.

DANIEL L. RILEY

STATE OF MAINE
DANIEL L RILEY
No. 10121
LICENSED PROFESSIONAL ENGINEER
10-17-2016

DESIGNED	CHECKED
DLR	PDO

REV:	BY:	DATE:	STATUS:
A	GJH	10-17-16	ISSUED FOR PERMIT APPLICATION

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite 1E Lewiston, ME 04240 Tel. 207-783-5656

POST WATERSHED PLAN
OF:
YORK TOLL PLAZA
REPLACEMENT PROJECT
FOR:
MAINE TURNPIKE AUTHORITY
2360 CONGRESS STREET
PORTLAND, ME 04102

PROJECT NO.	SCALE
14181	1" = 300'

SHEET 4 OF 34

14181 watershed POST_2016-10-14.dwg, TAB:POST1 (22X34)

MATCH LINE SEE SHEET 4 OF 34

GRID N

LEGEND

- WATERSHED BOUNDARY
- 1 — WATERSHED LABEL
- 1 — REACH
- 1 — DETENTION POND
- HYDROLOGIC SOIL GROUP A
- HYDROLOGIC SOIL GROUP B
- HYDROLOGIC SOIL GROUP C
- HYDROLOGIC SOIL GROUP D

GRAPHIC SCALE

300 0 150 300 600

(IN FEET)
1 INCH = 300FT.

DANIEL L. RILEY

STATE OF MAINE
DANIEL L RILEY
No. 10031
LICENSED PROFESSIONAL ENGINEER
10-17-2016

DESIGNED	CHECKED
DLR	PDO

REV:	BY:	DATE:	STATUS:
A	GJH	10-17-16	ISSUED FOR PERMIT APPLICATION

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite 1B Lewiston, ME 04240 Tel. 207-783-5656

POST WATERSHED PLAN

OF:

YORK TOLL PLAZA REPLACEMENT PROJECT

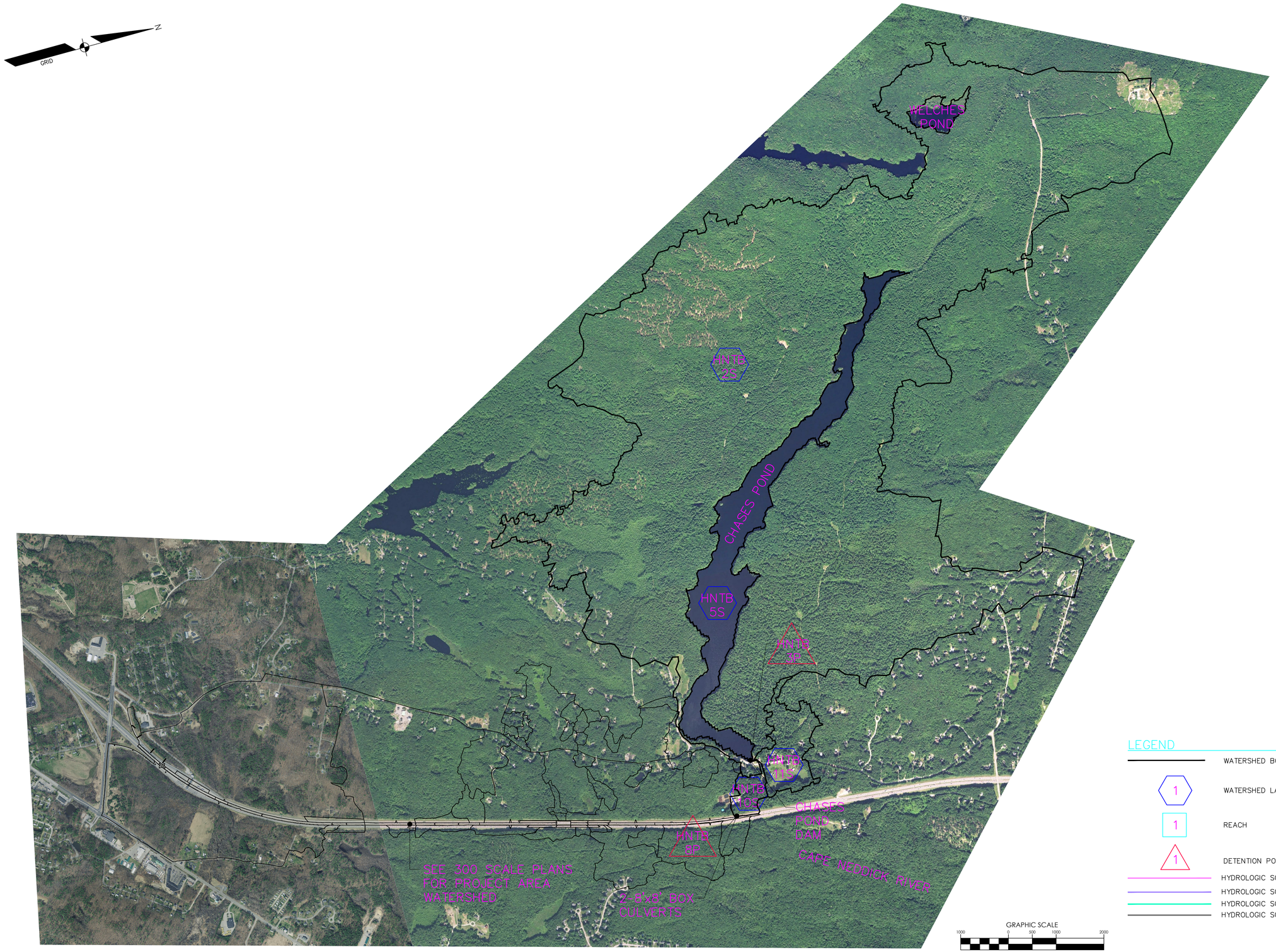
FOR:

MAINE TURNPIKE AUTHORITY
2360 CONGRESS STREET
PORTLAND, ME 04102

PROJECT NO.	SCALE
14181	1" = 300'

SHEET 5 OF 34

14181-watershed POST_2016-10-14.dwg, TAB:POST2 (22X34)



DANIEL L. RILEY

STATE OF MAINE
DANIEL L. RILEY
No. 10705
REGISTERED PROFESSIONAL ENGINEER
10-17-2016

DESIGNED	CHECKED
DLR	PDO

REV:	BY:	DATE:	STATUS:
A	GJH	10-17-16	ISSUED FOR PERMIT APPLICATION

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-5636

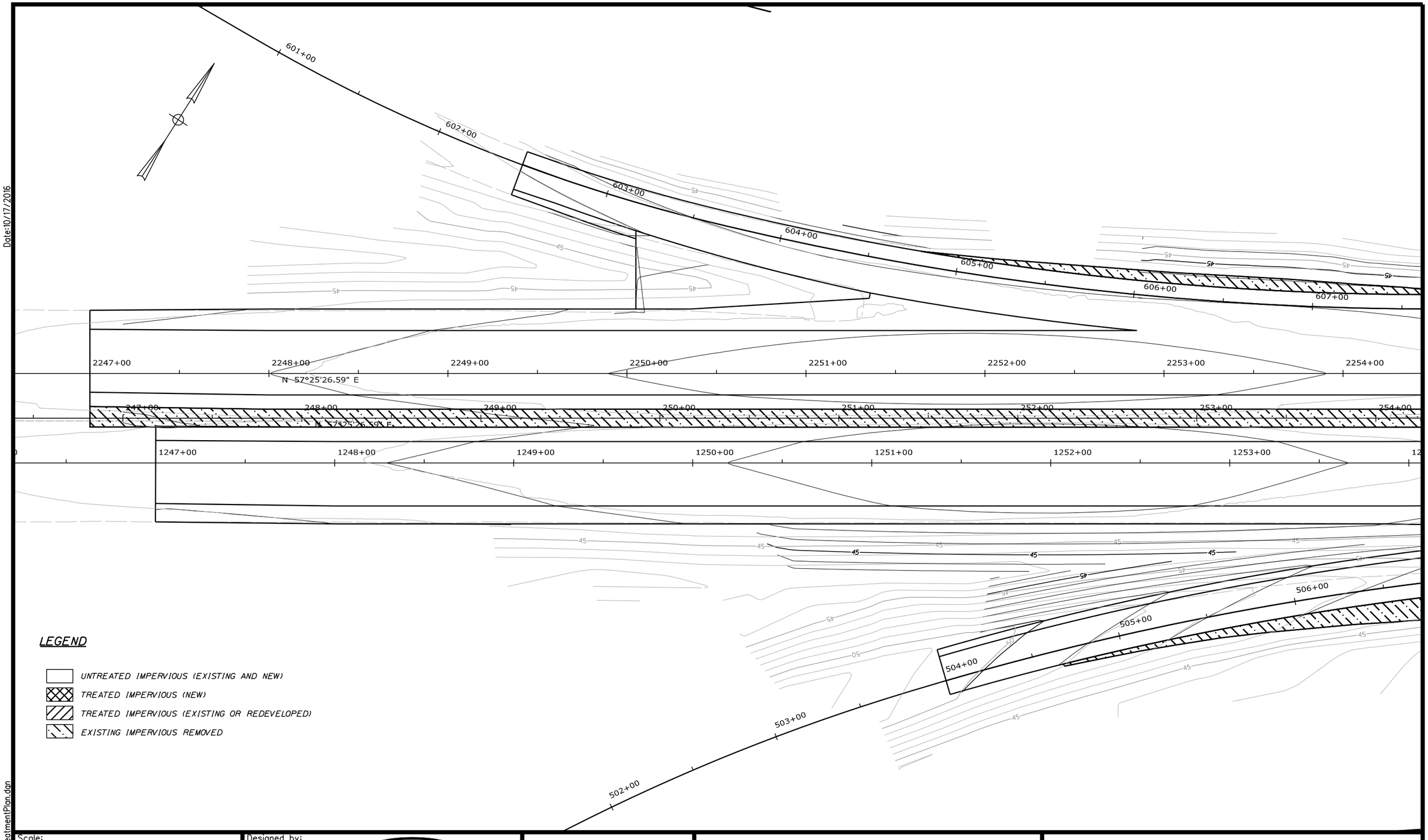
WATERSHED PLAN
OF:
CHASES POND AND
CAPE NEDDICK RIVER
FOR:
MAINE TURNPIKE AUTHORITY
2360 CONGRESS STREET
PORTLAND, ME 04102

PROJECT NO.	SCALE
14181	1" = 1000'

SHEET 6 OF 34

14181.watershed POST_2016-10-14.dwg, TAB:CHASES POND WS (22x34)

Date:10/17/2016



LEGEND

- *UNTREATED IMPERVIOUS (EXISTING AND NEW)*
- *TREATED IMPERVIOUS (NEW)*
- *TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)*
- *EXISTING IMPERVIOUS REMOVED*

Filename: ...\MSTA\101_TreatmentPlan.dgn

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

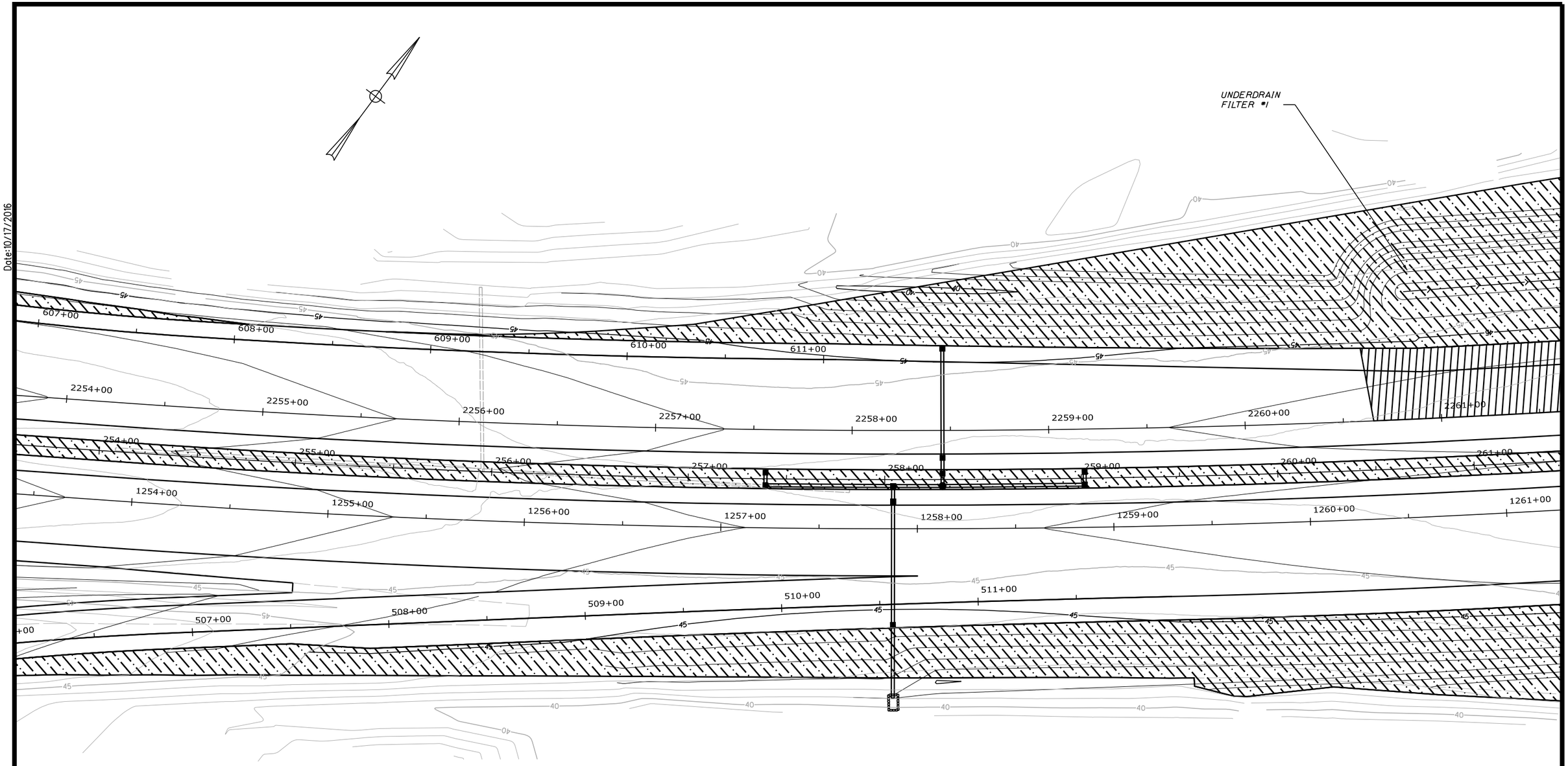
STORMWATER TREATMENT PLAN 1

SHEET NUMBER: 7

CONTRACT:2017.09

7 OF 34

Date:10/17/2016



LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

MTA PROJECT MANAGER: R. NORWOOD

THE GOLD STAR MEMORIAL HIGHWAY

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 2

SHEET NUMBER: 8

CONTRACT: 2017.09

8 OF 34

Filename: ...\MSTA\102_TreatmentPlan.dgn

UNDERDRAIN FILTER #1

UNDERDRAIN FILTER #2

1261+00 1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00

261+00 262+00 263+00 264+00 265+00 266+00 267+00 268+00

2261+00 2262+00 2263+00 2264+00 2265+00 2266+00 2267+00 2268+00

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 3

SHEET NUMBER: 9

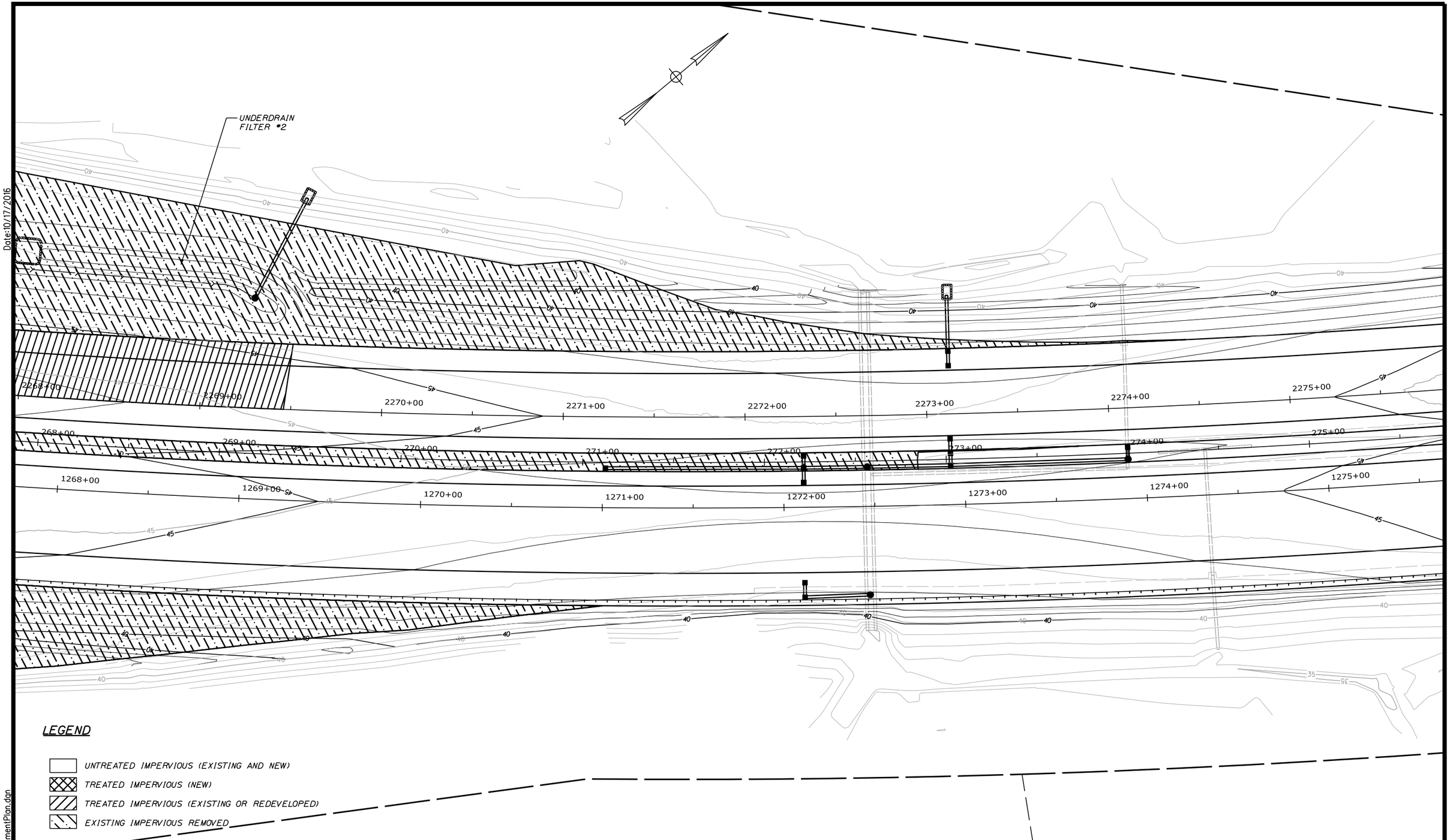
CONTRACT: 2017.09

9 OF 34

Date: 10/17/2016

Filename: ...\MSTA\103_TreatmentPlan.dgn

Date:10/17/2016



LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 4

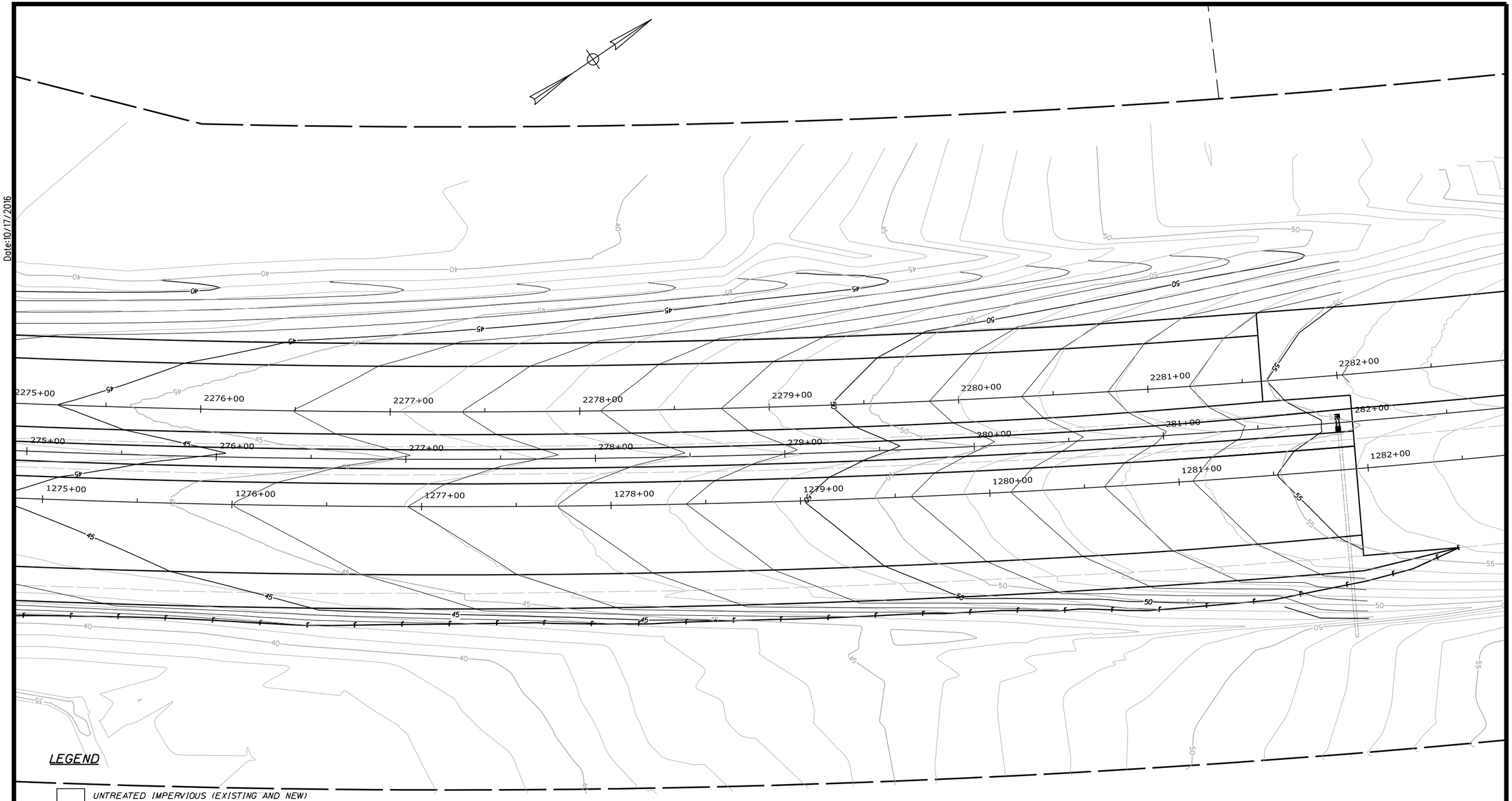
SHEET NUMBER: 10

CONTRACT: 2017.09

10 OF 34

Filename: ...\MSTA\104_TreatmentPlan.dgn

Date:10/17/2016



Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 5

SHEET NUMBER: 11

CONTRACT: 2017.09

11 OF 34

Filename: ...\MSTA\105_TreatmentPlan.dgn

Date:10/17/2016

MATCHLINE THIS SHEET

MATCHLINE THIS SHEET

LEGEND

- *UNTREATED IMPERVIOUS (EXISTING AND NEW)*
- *TREATED IMPERVIOUS (NEW)*
- *TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)*
- *EXISTING IMPERVIOUS REMOVED*

Filename: ...\MSTA\106_TreatmentPlan.dgn

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

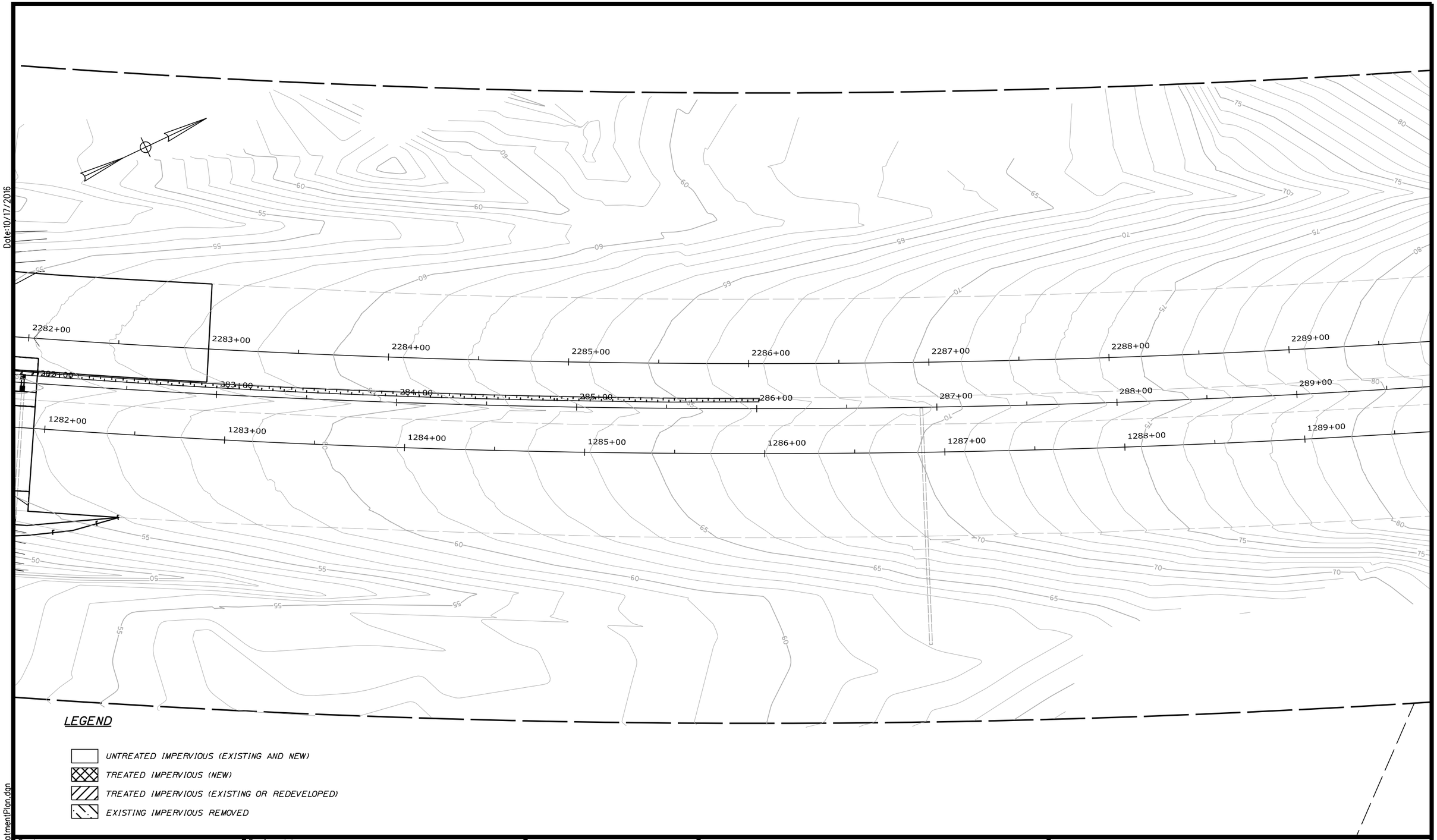
STORMWATER TREATMENT 6

SHEET NUMBER: 12

CONTRACT: 2017.09

12 OF 34

Date:10/17/2016



Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

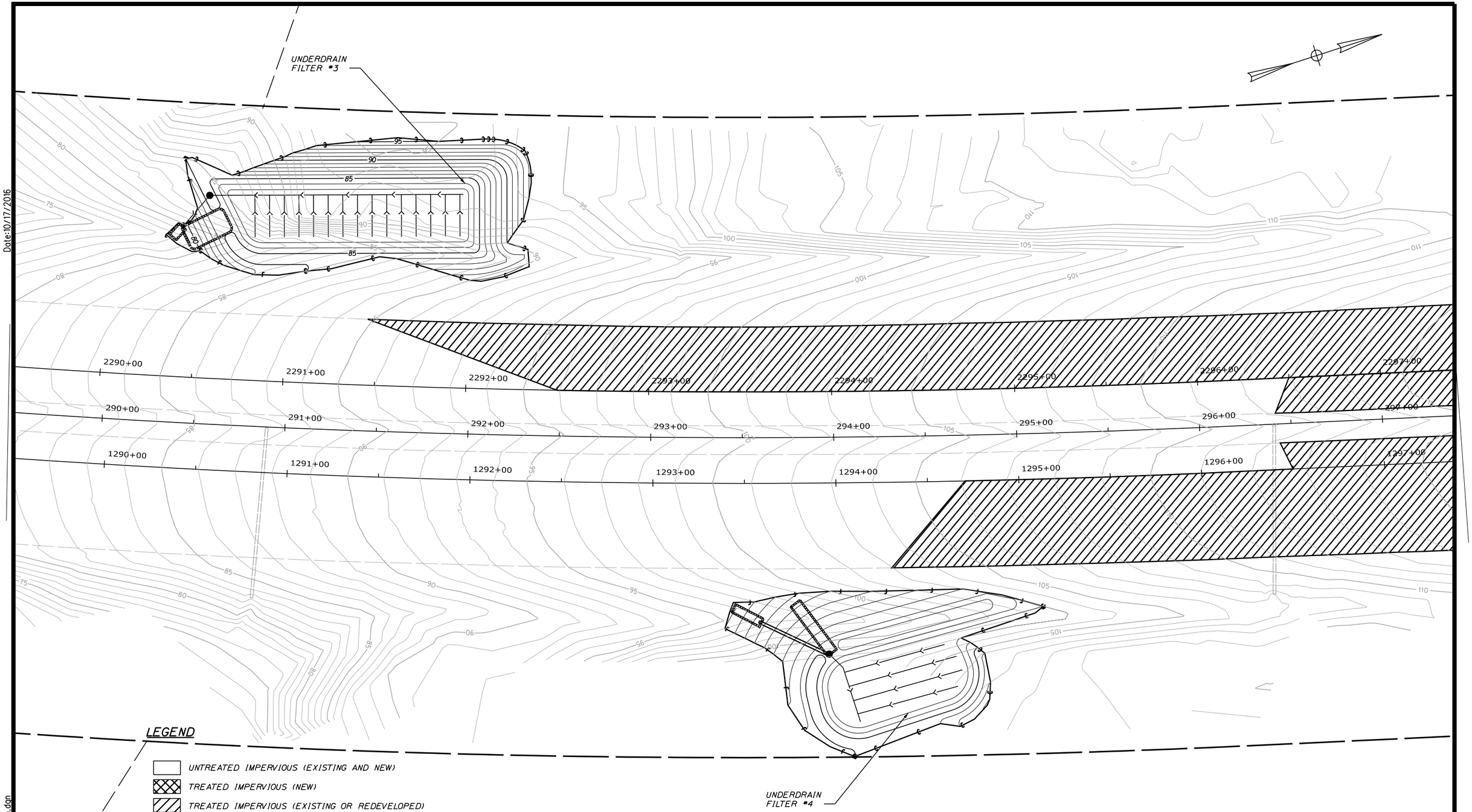
STORMWATER TREATMENT PLAN 7

SHEET NUMBER: 13

CONTRACT: 2017.09

13 OF 34

Filename: ...\MSTA\107_TreatmentPlan.dgn



Date:10/17/2016

Filename: ...\MSTA\108_TreatmentPlan.dgn

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

MTA PROJECT MANAGER: R. NORWOOD

THE GOLD STAR MEMORIAL HIGHWAY

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 8

SHEET NUMBER: 14

CONTRACT: 2017.09

Date:10/17/2016

UNDERDRAIN FILTER #3

N 15°18'56.74" E

N 15°18'56.74" E

2297+00 2298+00 2299+00 2300+00 2301+00 2302+00 2303+00

1297+00 1298+00 1299+00 1300+00 1301+00 1302+00 1303+00

300+00 301+00 302+00 303+00

110 115 120 125

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 8A

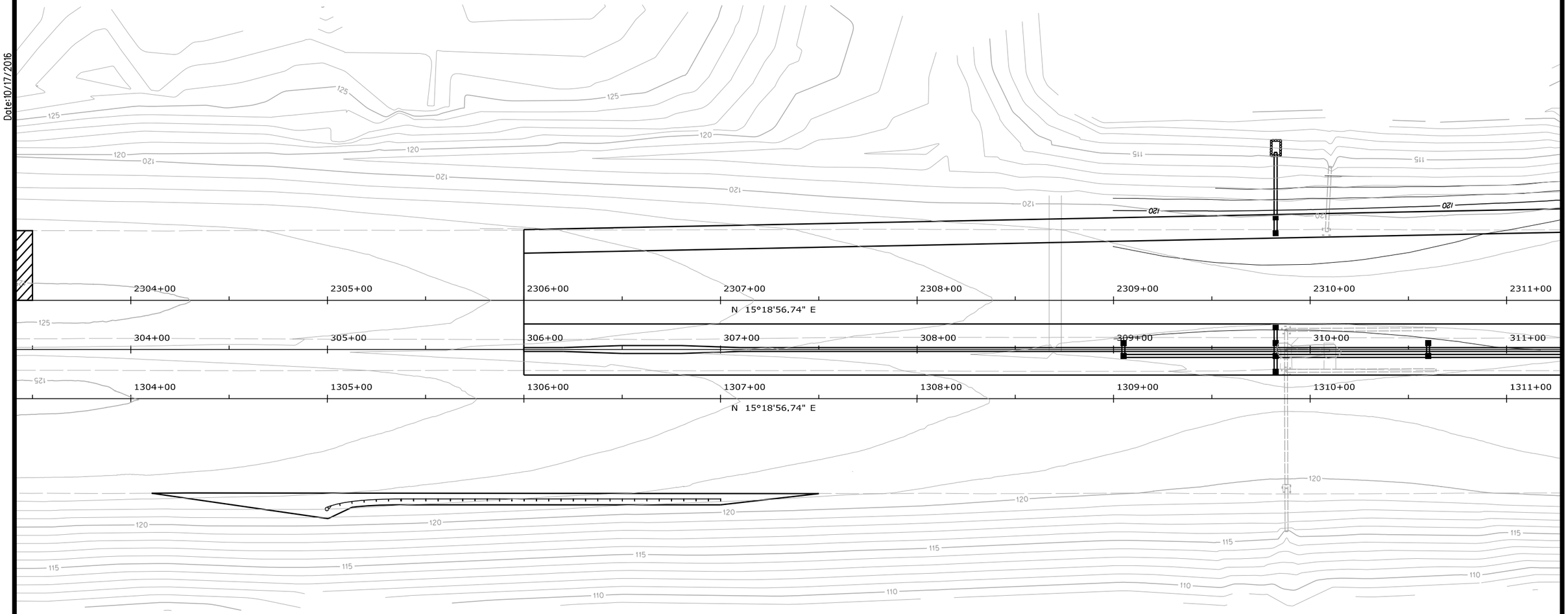
SHEET NUMBER: 15

CONTRACT: 2017.09

15 OF 34

Filename: ...\MSTA\109_TreatmentPlan.dgn

Date:10/17/2016



LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 9

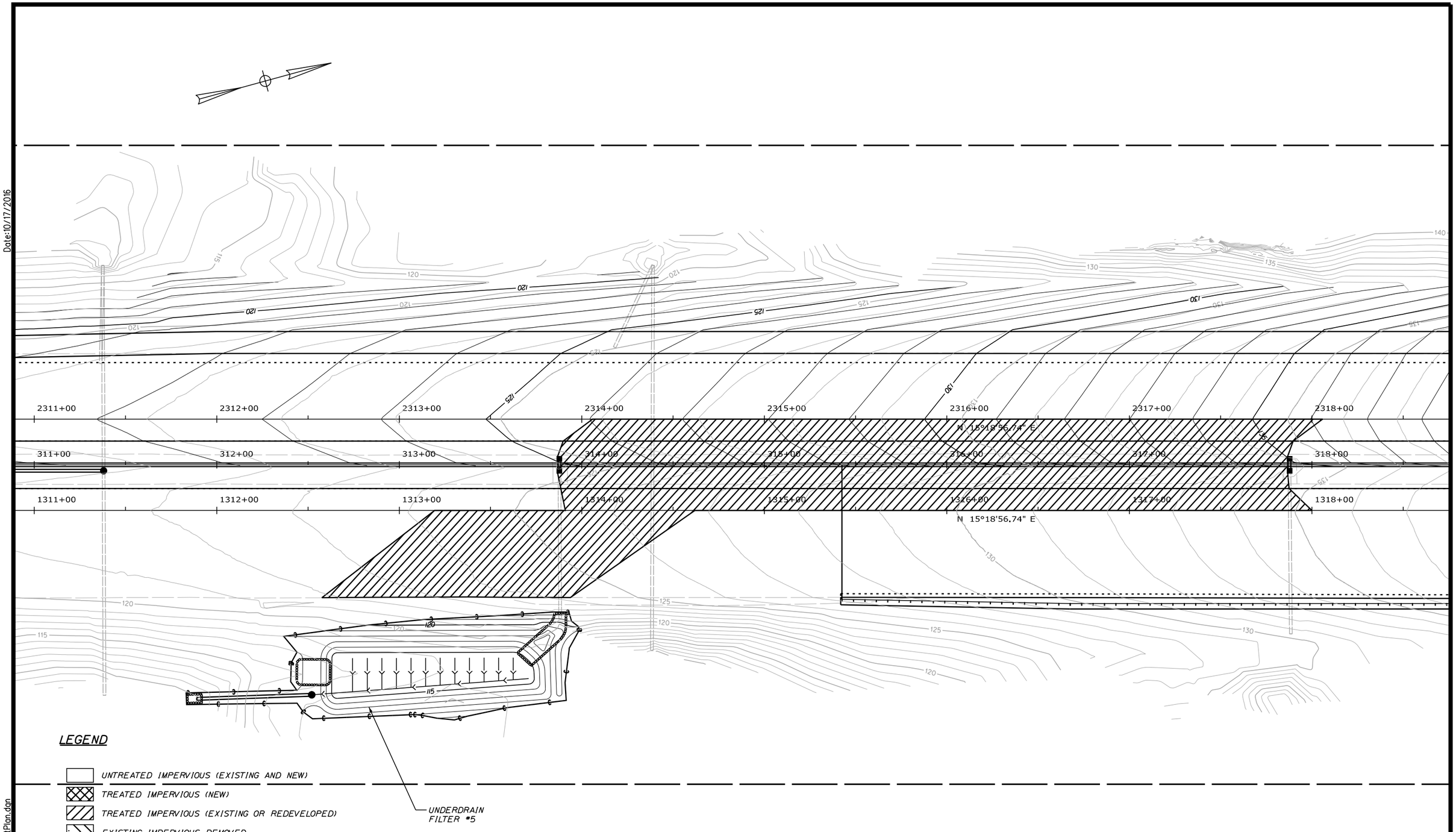
SHEET NUMBER: 16

CONTRACT: 2017.09

16 OF 34

Filename: ...\MSTA\110_TreatmentPlan.dgn

Date:10/17/2016



Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 10

SHEET NUMBER: 17

CONTRACT: 2017.09

17 OF 34

Filename: ...\MSTA\111_TreatmentPlan.dgn

Date:10/17/2016

2319+00 2320+00 2321+00 2322+00 2323+00 2324+00 2325+00 2326+00

N 15°18'56.74" E

319+00 320+00 321+00 322+00 323+00 324+00 325+00 326+00

1319+00 1320+00 1321+00 1322+00 1323+00 1324+00 1325+00 1326+00

N 15°18'56.74" E

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 11

SHEET NUMBER: 18

CONTRACT: 2017.09

18 OF 34

Filename: ...\MSTA\112_TreatmentPlan.dgn

Date:10/17/2016

2326+00 2327+00 2328+00 2329+00 2330+00 2331+00 2332+00 2333+00

N 15°18'56.74" E

326+00 327+00 328+00 329+00 330+00 331+00 332+00 333+00

1326+00 1327+00 1328+00 1329+00 1330+00 1331+00 1332+00 1333+00

N 15°18'56.74" E

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Filename: ...\MSTA\113_Treatment Plan.dgn

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 12

SHEET NUMBER: 19

CONTRACT: 2017.09

Date:10/17/2016

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

2334+00 2335+00 2336+00 2337+00 2338+00 2339+00 2340+00 2341+00

N 15°18'56.74" E

334+00 335+00 336+00 337+00 338+00 339+00 340+00 341+00

1334+00 1335+00 1336+00 1337+00 1338+00 1339+00 1340+00 1341+00

N 15°18'56.74" E

Filename: ...\MSTA\114_Treatment Plan.dgn

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 13

SHEET NUMBER: 20

CONTRACT: 2017.09

20 OF 34

Date:10/17/2016

336+00 337+00 338+00 339+00 340+00 341+00 342+00 343+00

1336+00 1337+00 1338+00 1339+00 1340+00 1341+00 1342+00 1343+00

N 15°18'56.74" E

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

MTA PROJECT MANAGER: R. NORWOOD

THE GOLD STAR MEMORIAL HIGHWAY

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 14

SHEET NUMBER: 21

CONTRACT: 2017.09

21 OF 34

Filename: ...\MSTA\115_TreatmentPlan.dgn

Date:10/17/2016

UNDERDRAIN FILTER #7

2341+00 2342+00 2343+00 2344+00 2345+00 2346+00 2347+00 2348+00

N 15°16'56.74" E

341+00 342+00 343+00 344+00 345+00 346+00 3474+00 3484+00

1341+00 1342+00 1343+00 1344+00 1345+00 1346+00 1347+00 1348+00

N 15°16'56.74" E

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

WETLAND DELINEATION (TYP.)

Filename: ...\MSTA\116_TreatmentPlan.dgn

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

MTA PROJECT MANAGER: R. NORWOOD

THE GOLD STAR MEMORIAL HIGHWAY

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 15

SHEET NUMBER: 22

CONTRACT: 2017.09

22 OF 34

Date:10/17/2016

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

2349+00 2350+00 2351+00 2352+00 2353+00 2354+00 2355+00 2356+00

N 15°18'56.74" E

1349+00 1350+00 1351+00 1352+00 1353+00 1354+00 1355+00 1356+00

N 15°18'56.74" E

UNDERDRAIN FILTER #8

UNDERDRAIN FILTER #9

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 16

SHEET NUMBER: 23

CONTRACT: 2017.09

Filename: ...\MSTA\117_TreatmentPlan.dgn

Date:10/17/2016

2356+00 2357+00 2358+00 2359+00 2360+00 2361+00 2362+00 2363+00

N 15°18'56.74" E

356+00 357+00 358+00 359+00 360+00 361+00 362+00 363+00

1356+00 1357+00 1358+00 1359+00 1360+00 1361+00 1362+00 1363+00

N 15°18'56.74" E

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 17

SHEET NUMBER: 24

CONTRACT: 2017.09

24 OF 34

Filename: ...\MSTA\118_TreatmentPlan.dgn

Date:10/17/2016

PC = STA. 2366+42.72

2364+00 2365+00 2366+00 2367+00 2368+00 2369+00 2370+00 2371+00

N 15°18'56.74" E

364+00 365+00 366+00 366+50 367+00 368+00 369+00 370+00 371+00

1364+00 1365+00 1366+00 1367+00 1368+00 1369+00 1370+00 1371+00

N 15°18'56.74" E

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

MTA PROJECT MANAGER: R. NORWOOD

THE GOLD STAR MEMORIAL HIGHWAY

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 18

SHEET NUMBER: 25

CONTRACT: 2017.09

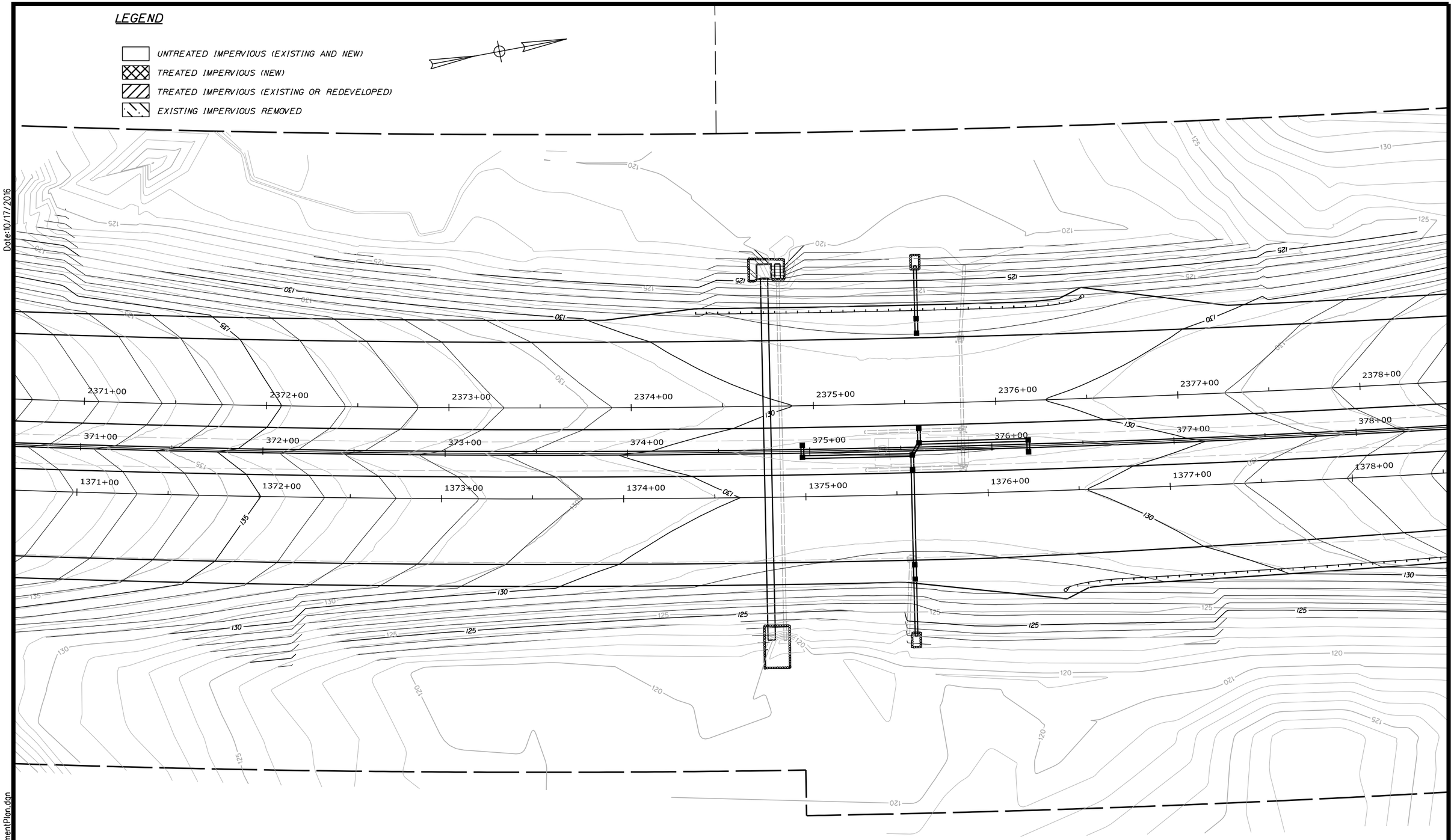
25 OF 34

Filename: ...\MSTA\119_TreatmentPlan.dgn

Date:10/17/2016

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED



Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

MTA PROJECT MANAGER: R. NORWOOD

THE GOLD STAR MEMORIAL HIGHWAY

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 19

SHEET NUMBER: 26

CONTRACT: 2017.09

26 OF 34

Filename: ...\MSTA\120_TreatmentPlan.dgn

Date:10/17/2016

PT = STA. 2381+21.69

2378+00 2379+00 2380+00 2381+00 2382+00 2383+00 2384+00 2385+00

378+00 379+00 380+00 381+00 382+00 383+00 384+00 385+00

1378+00 1379+00 1380+00 1381+00 1382+00 1383+00 1384+00 1385+00

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

Filename: ...\WSTA\121_TreatmentPlan.dgn

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 20

SHEET NUMBER: 27

CONTRACT: 2017.09

27 OF 34

Date:10/17/2016

LEGEND

- UNTREATED IMPERVIOUS (EXISTING AND NEW)
- TREATED IMPERVIOUS (NEW)
- TREATED IMPERVIOUS (EXISTING OR REDEVELOPED)
- EXISTING IMPERVIOUS REMOVED

UNDERDRAIN FILTER #6

UNDERDRAIN FILTER #7.

POE = STA. 2347+00 ±

2340+00 2341+00 2342+00 2343+00 2344+00 2345+00 2346+00

340+00 341+00 342+00 343+00 344+00 345+00 346+00

1340+00 1341+00 1342+00 1343+00 1344+00 1345+00 1346+00

Filename: ...\MSTA\122_TreatmentPlan.dgn

Scale:

25 0 25 50

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

MTA PROJECT MANAGER: R. NORWOOD

THE GOLD STAR MEMORIAL HIGHWAY

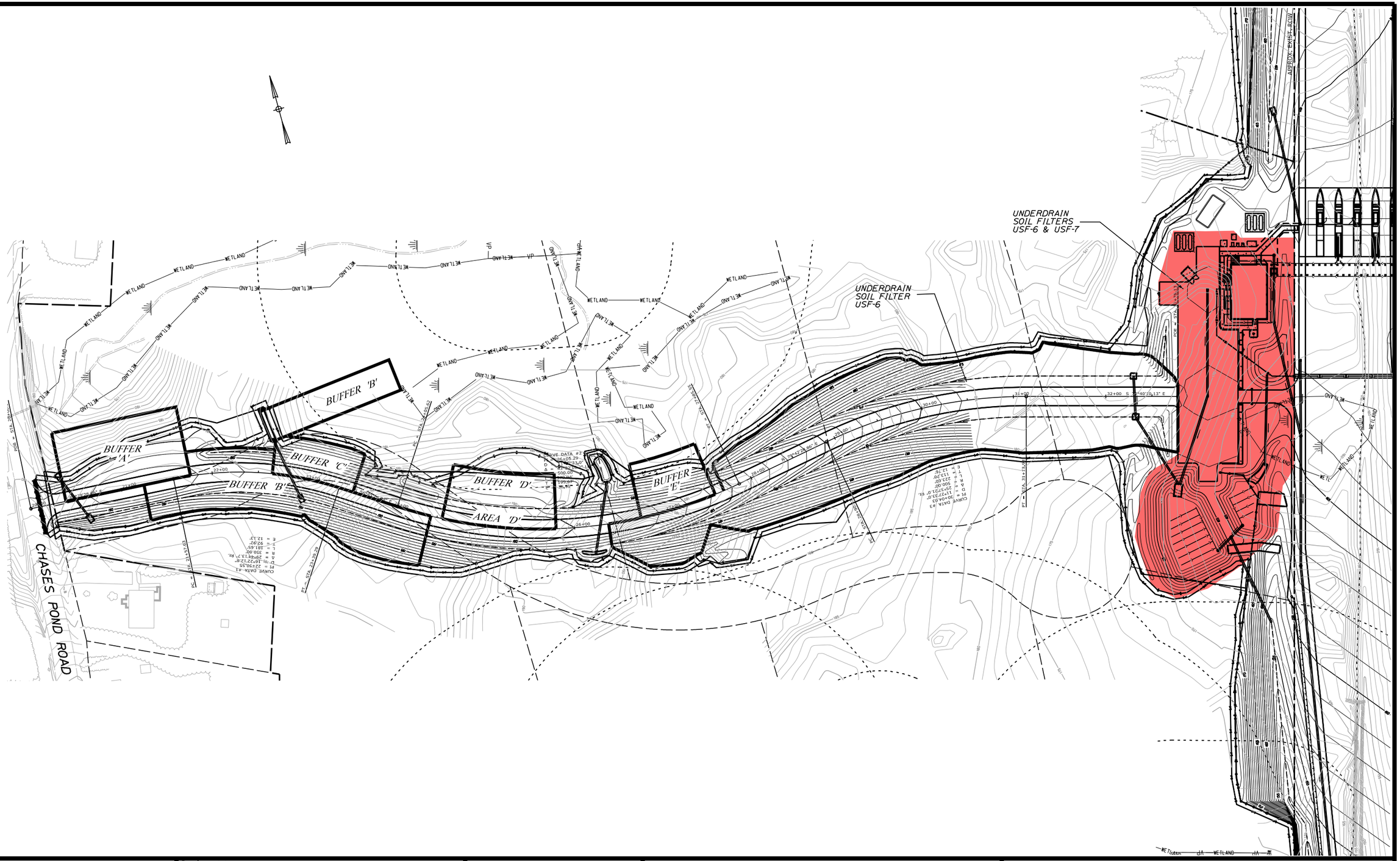
YORK TOLL PLAZA

STORMWATER TREATMENT PLAN 21

SHEET NUMBER: 28

CONTRACT: 2017.09

Date:10/17/2016



Filename: ...\STORMWATER\MSTA\SWTPlan10.dgn

Scale: 50 0 50 100
Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

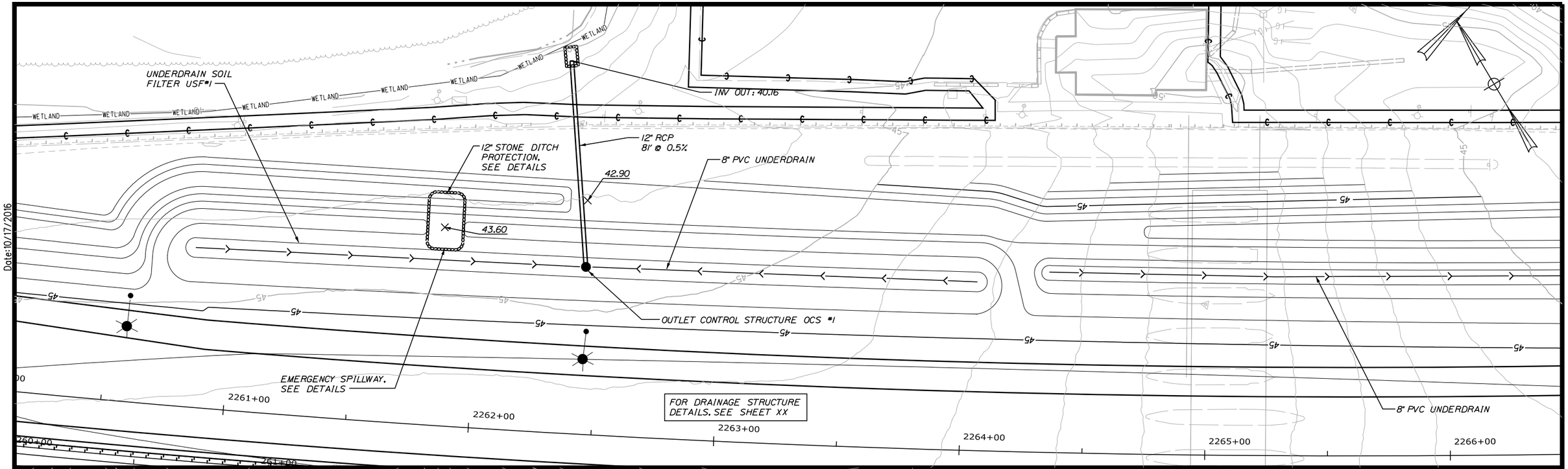
MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

ACCESS ROAD BUFFER/TREATMENT PLAN

SHEET NUMBER: 29

CONTRACT: WIN 2017.09



Date:10/17/2016

Filename: ...\097a_HW Stormwater_Treatment_Plan_01.dgn

Scale:

20 0 20 40

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	DB	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD, SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

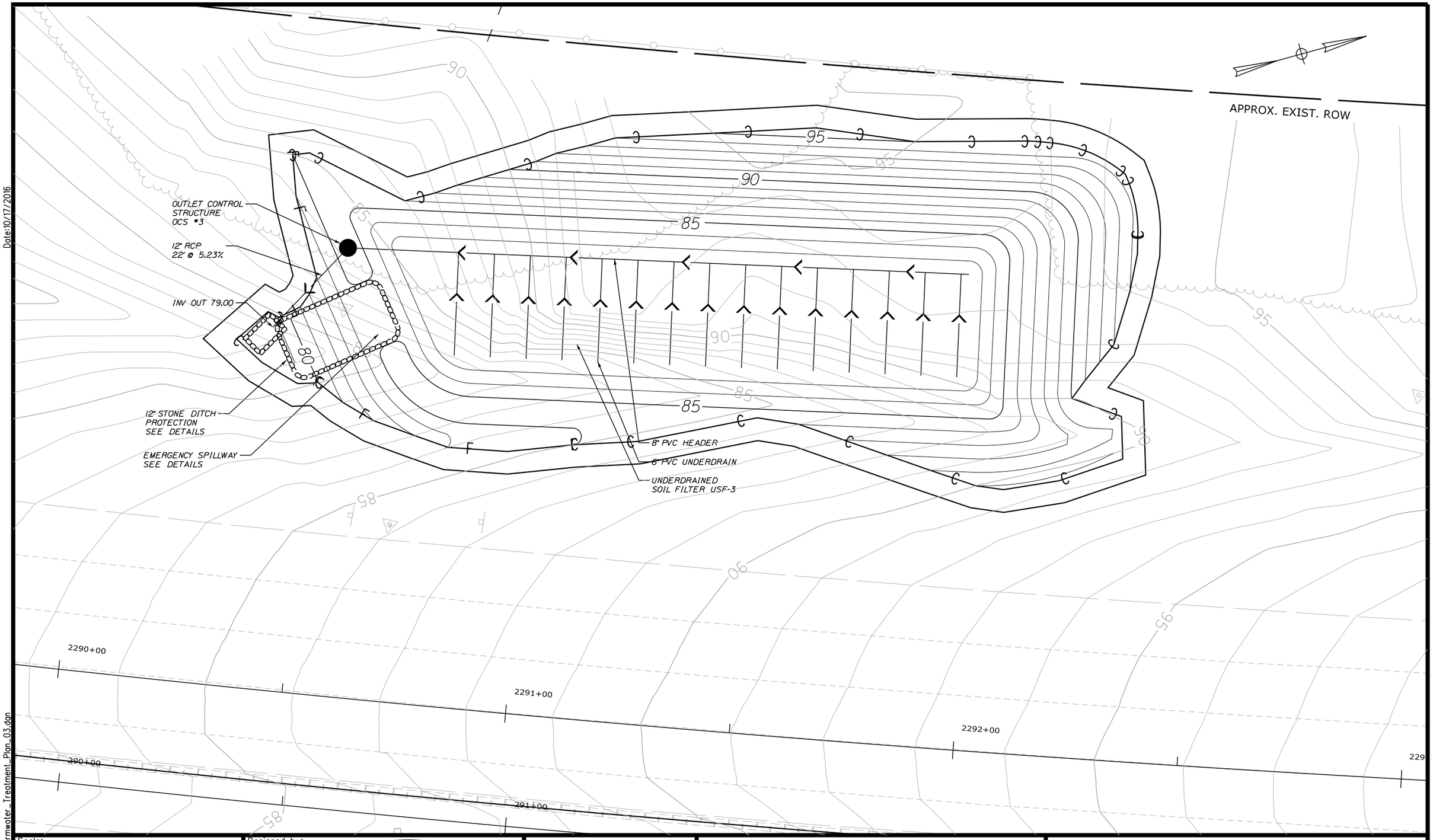
YORK TOLL PLAZA

STORMWATER PONDS #1 AND #2

SHEET NUMBER: 30

CONTRACT: 2017.09

30 OF 34



Date:10/17/2016

Filename: ...\097b_HW Stormwater_Treatment_Plan_03.dgn

Scale:

10 0 10 20

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	DB	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

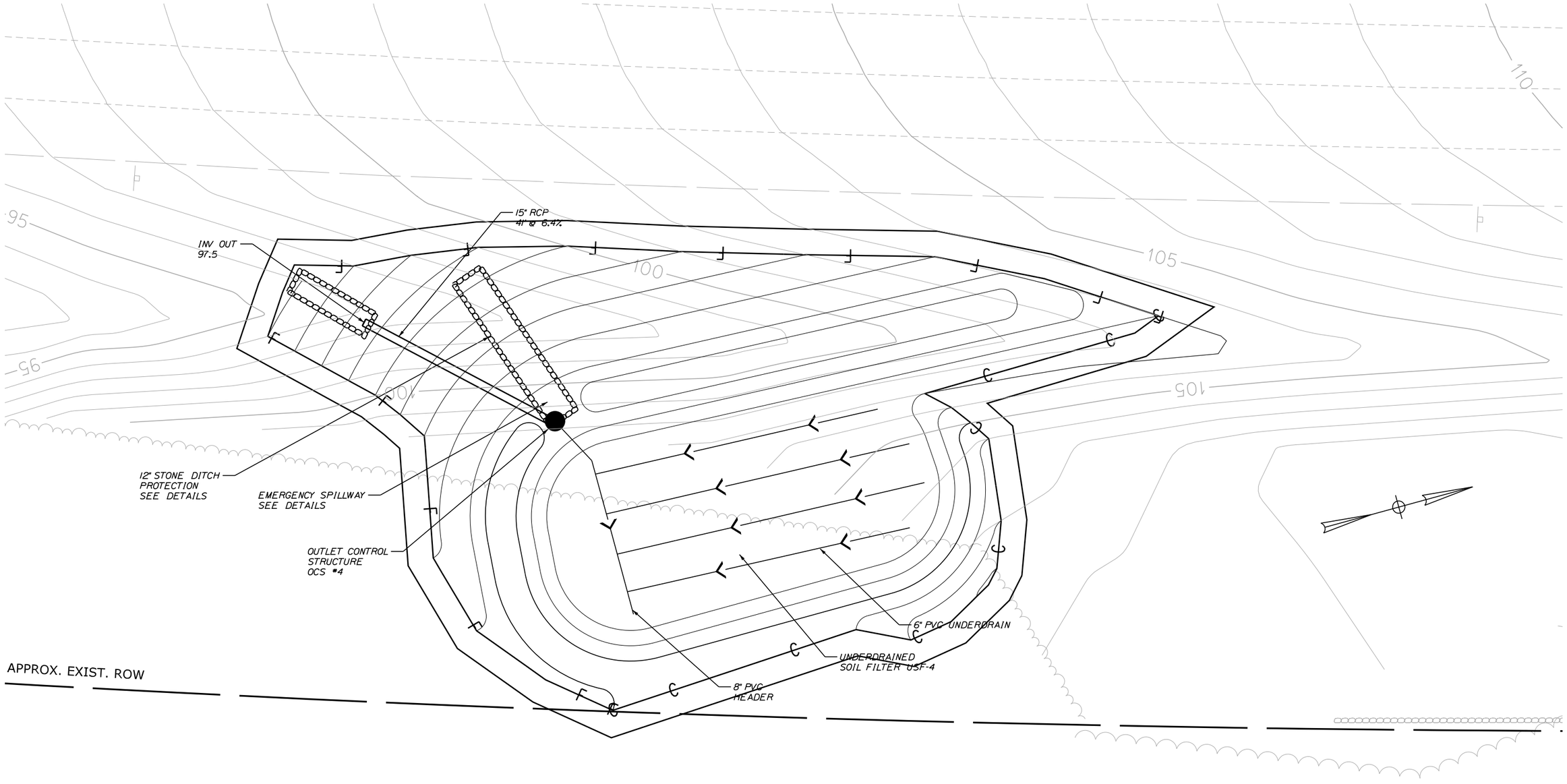
MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER POND #3

SHEET NUMBER: 31

CONTRACT: 2017.09



Date:10/17/2016

Filename: ...\097c_HW_Stormwater_Treatment_Plan_04.dgn

Scale:

10 0 10 20

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	DB	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER POND #4

SHEET NUMBER: 32

CONTRACT: 2017.09

32 OF 34

312+00
313+00
314+00
1312+00
1313+00
1314+00
125
120
120
125
115
OUTLET CONTROL STRUCTURE OCS#5
RIPRAP FOREBAY AND SPILLWAY
6" PVC UNDERDRAIN
INV OUT 110.0
12" RCP 63' @ 3.41%
12" STONE DITCH PROTECTION SEE DETAILS
EMERGENCY SPILLWAY SEE DETAILS
8" PVC HEADER
UNDERDRAINED SOIL FILTER USF-5
WETLAND
WETLAND
WETLAND
WETLAND

Date:10/17/2016

Filename: ...\097d_HW_Stormwater_Treatment_Plan_05.dgn

Scale:
10 0 10 20
Scale of Feet

No.	Revision	By	Date

Designed by:
SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	DB	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS
75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

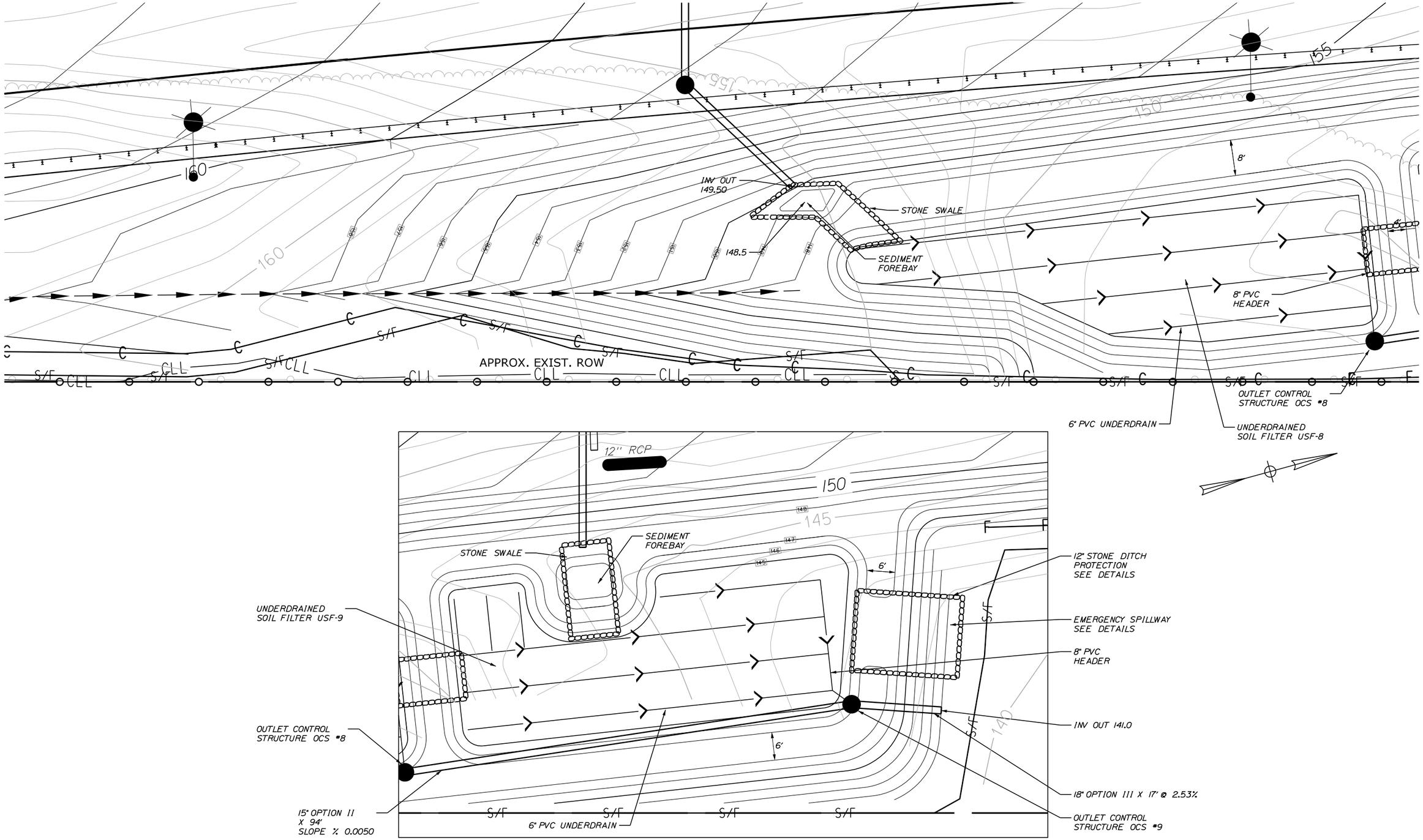
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER POND #5

SHEET NUMBER: 33
CONTRACT: 2017.09
33 OF 34



Date:10/17/2016

Filename: ...\0971_HW Stormwater_Treatment_Plan_08.dgn

Scale:

10 0 10 20

Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS

WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	10/17/16
Drawn	DB	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

STORMWATER PONDS #8 AND #9

SHEET NUMBER: 34

CONTRACT: 2017.09

34 OF 34

Date:9/16/2016

STA. 20+08
ACCESS ROAD ℄
BEGIN MILL, SHIM
AND PAVE

STA. 20+12
ACCESS ROAD
END MILL, SHIM
AND PAVE.
BEGIN FULL DEPH
CONSTRUCTION.

CHASES POND ROAD

SAWCUT

20+00

R=40'

S 88°29'28" E

INV. OUT = 188.00
15" X 52' OPTION III
INV. IN = 188.75

10'

21+00

22+00

N/F
WILLIAM A. MEADER IV & RADKA MEADER
173 CHASES POND RD.
MAP 94, LOT 35D
BK 14941, PG 183

N/F
HARRY O. POLLARD IV & CALEIGH L. POLLARD
175 CHASES POND RD.
MAP 94, LOT 35E
BK 16554, PG 424

PARCEL A
BK 16881, PG 623

PARCEL H
BK 16881, PG 620

N/F
JAMES R. RUTHERFORD III
& JOANNE RUTHERFORD
191 CHASES POND RD.
MAP 94, LOT 36
BK 2361, PG 148

Filename: ...\xxx_AccessRd_Grading_01.dgn

Scale:
25 0 25 50
Scale of Feet

No.	Revision	By	Date

Designed by:
SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	09/16/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS
75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

ACCESS ROAD GRADING AND DRAINAGE 1

SHEET NUMBER: GP-19

CONTRACT: 2017.09

$PSET$ OF

Date:9/16/2016

PARCEL H
BK 16881, PG 620

PARCEL G
BK 16881, PG 622

PARCEL F
BK 16881, PG 620

35' LONG STONE
BERM SPREADER

INV. OUT = 186.00

15" X 70' OPTION III

30' LONG STONE
BERM SPREADER

INV. OUT = 182.00

18" X 80'
OPTION III

186.50

191.50

22+00

23+00

24+00

25+00

26+00

27+00

28+00

29+00

S 56°45'14.99" E

N 79°42'28.86" E

INV. IN = 187.00

INV. IN = 184.50

PARCEL A
BK 16881, PG 623

PARCEL B
BK 16881, PG 621

PARCEL C
BK 16881, PG 622

R.O.W.
BK 16881, PG 624

Filename: ...\xxx_AccessRd_Grading_02.dgn

Scale:
25 0 25 50
Scale of Feet

No.	Revision	By	Date

Designed by:
SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	09/16/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS
75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

ACCESS ROAD
GRADING AND DRAINAGE 2

SHEET NUMBER: GP-20

CONTRACT: 2017.09

$PSET$ OF

PARCEL C
BK 16881, PG 622

PARCEL F
BK 16881, PG 620

PARCEL E
BK 16881, PG 623

R.O.W.
BK 16881, PG 624

PARCEL D
BK 16881, PG 620

SEE SITE PLAN FOR PARKING
AND GRADING DETAILS

STA. 32+78.1
ACCESS ROAD
END FULL DEPH
CONSTRUCTION

30+00

31+00

32+00 S 14°40'10.13" E

15" X 86' OPTION III

12" X 111' OPTION III

12" X 16' OPTION III

12" X 14' OPTION III

15" X 100' OPTION III

TERMINAL CURB
TYPE 1

PARKING

12" X 111' OPTION III

GATE

14.00'

ADD CULVERT
15" X 122' RCP

ADMINISTRATION
BUILDING

12" X 92' RCP

15" X 122' RCP

10' 10'

32.5' 32.5' 32.5'

13'

WETLAND

Date:9/16/2016

Filename: ...\xxx_AccessRd_Grading_03.dgn

Scale:
25 0 25 50
Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	09/16/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

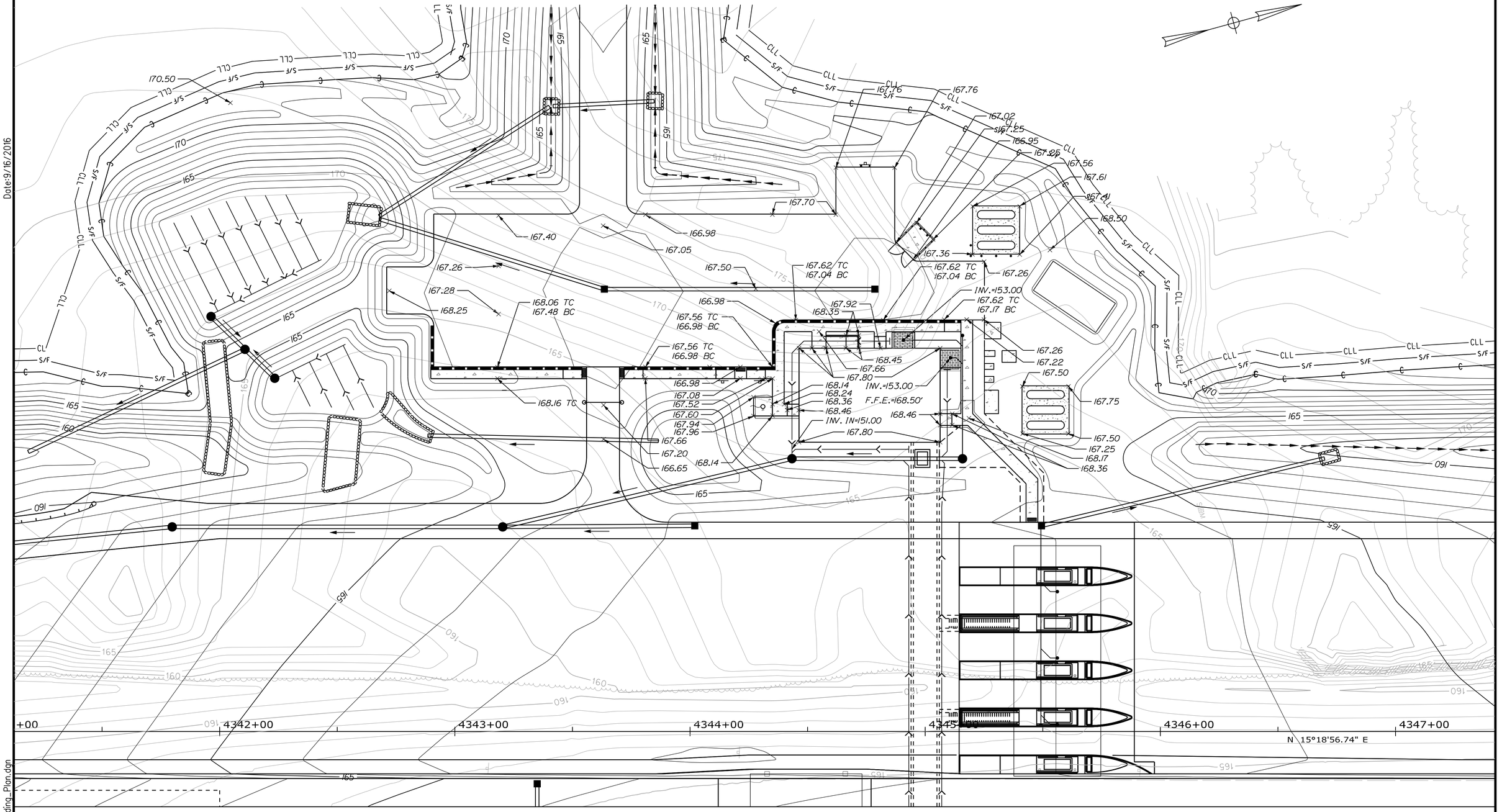
ACCESS ROAD
GRADING AND DRAINAGE 3

SHEET NUMBER: GP-21

CONTRACT: 2017.09

$PSET$ OF

Date:9/16/2016



Filename: ...\094_Admin_Grading_Plan.dgn

Scale:
20 0 20 40
Scale of Feet

No.	Revision	By	Date

Designed by:

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	09/16/16
Drawn	RLM	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS

75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

ADMINISTRATIVE BUILDING GRADING PLAN

SHEET NUMBER: 94

CONTRACT: 2017.09

94 OF

Date:9/16/2016

INV. OUT 163.54
INV. IN 163.50
15" SD
L = 43'
S = 0.0050
15" SD
L = 86'
S = 0.0058
INV. IN 163.75
INV. OUT 163.00
INV. OUT 162.00
RIPRAP FOREBAY
AND SPILLWAY
UNDERDRAIN SOIL
FILTER USF-6
CB
RIM=166.76
INV. OUT=163.14
12" OPTION III
L=111'
S=0.0050
OCS#6
RIM=164.00
INV. IN=158.65
INV. OUT=158.15
12" OPTION III
L=16'
S=0.0100
15" OPTION III
L=100'
S=0.0075
12" OPTION III
L=98'
S=0.0050
CB
RIM=166.50
INV. IN=162.58
INV. OUT=162.48
6" FD
INV.=153.00
INV.=153.00
F.F.E.=168.50'
INV. IN=151.00
8" AREAWAY
DRAIN
RIPRAP OUTLET
PROTECTION
AND SPILLWAY
INV. OUT=163.00
INV. OUT=157.00
12" OPTION III
L=98'
S=0.0050
INV. IN=163.50
12" OPTION III
L=69'
S=0.0075
DMH
RIM=167.60
12" INV. IN=151.66
6" FD INV. IN=151.67
15" INV. OUT=150.92
DMH
RIM=167.60
8" INV. IN=152.43
12" INV. OUT=152.18
CONNECT FOUNDATION
DRAIN WITH 6" X 12" WYE
CONNECT TUNNEL
UNDERDRIANS WITH
12" X 12" WYE.
(TYP. 2 PLACES)
EMERGENCY SPILLWAY.
SEE DETAILS
12" STONE DITCH
PROTECTION. SEE DETAILS
OCS#7
RIM=164.00
INV. IN=159.65
INV. OUT=159.15
12" OPTION III
L=14'
S=0.0100
DMH
RIM=165.50
12" INV. IN=159.00
12" INV. IN=158.00
15" INV. OUT=157.75
SEE GENERAL PLANS AND
CROSS SECTIONS FOR
HIGHWAY DRAINAGE (TYP.)
UNDERDRAIN SOIL FILTER USF-7
EMERGENCY SPILLWAY.
SEE DETAILS
12" STONE DITCH
PROTECTION. SEE DETAILS
(2) 12" UD
L=350'
S=0.0050
N 15°18'56.74" E
+00
4342+00
4343+00
4344+00
4345+00
4346+00
4347+00

Filename: ...\0940_Admin_Drainage_Plan.dgn

Scale: 20 0 20 40
Scale of Feet

No.	Revision	By	Date

Designed by: SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	9/16/16	Checked	DLR	09/16/16
Drawn	RLM	9/16/16	In Charge of	---	--/--

SEBAGO TECHNICS
75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

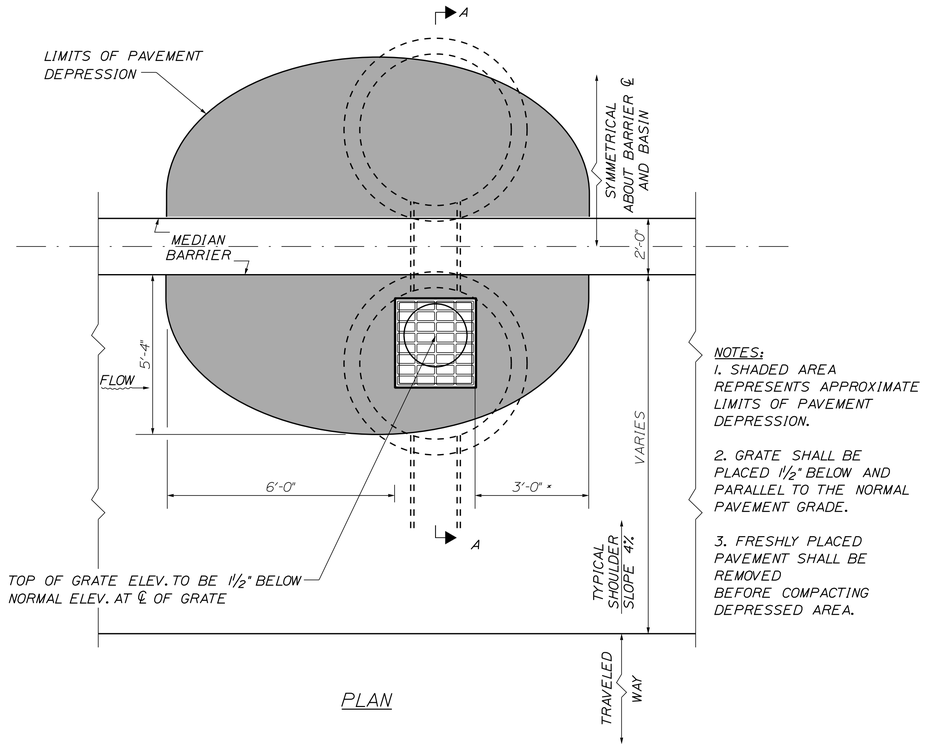
YORK TOLL PLAZA

ADMINISTRATIVE BUILDING DRAINAGE PLAN

SHEET NUMBER: 94

CONTRACT: 2017.09

94 OF



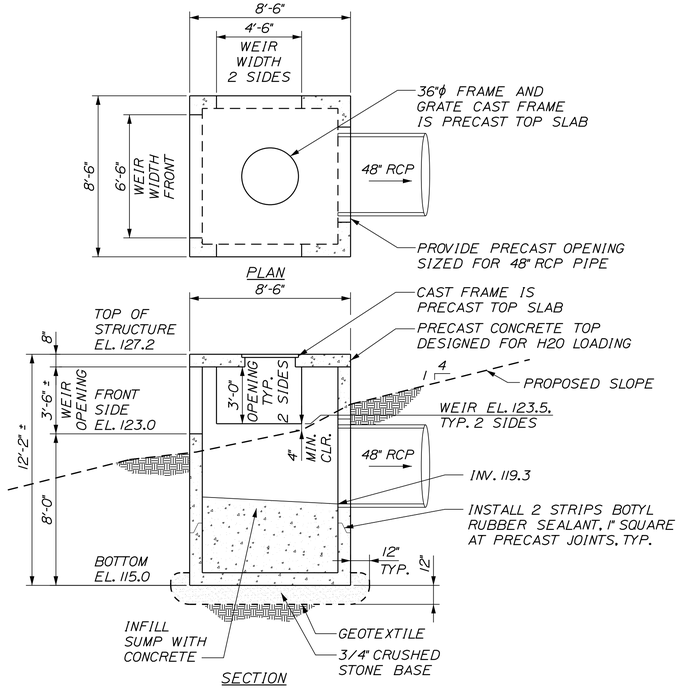
PLAN

NOTES:

1. SHADED AREA REPRESENTS APPROXIMATE LIMITS OF PAVEMENT DEPRESSION.

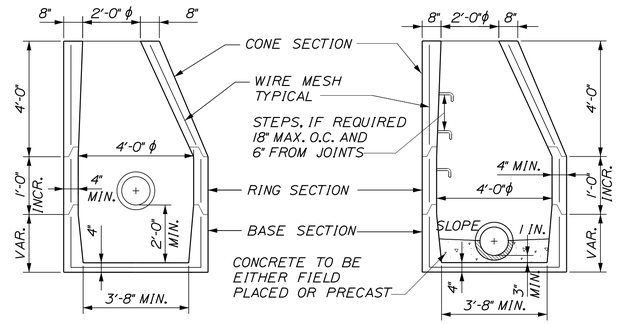
2. GRATE SHALL BE PLACED 1½" BELOW AND PARALLEL TO THE NORMAL PAVEMENT GRADE.

3. FRESHLY PLACED PAVEMENT SHALL BE REMOVED BEFORE COMPACTING DEPRESSED AREA.



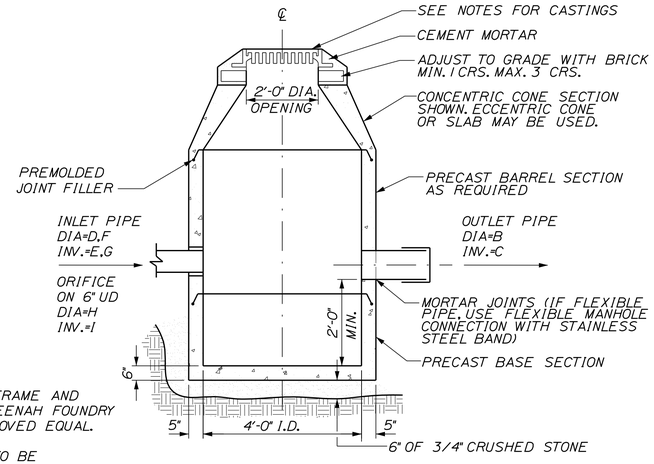
INLET DETAIL
NOT TO SCALE

NOTES:
1. SUBMIT SHOP DRAWINGS FOR PRECAST STRUCTURE FOR ENGINEERS APPROVAL.



DIMENSIONS ARE INTENDED TO BE NOMINAL.

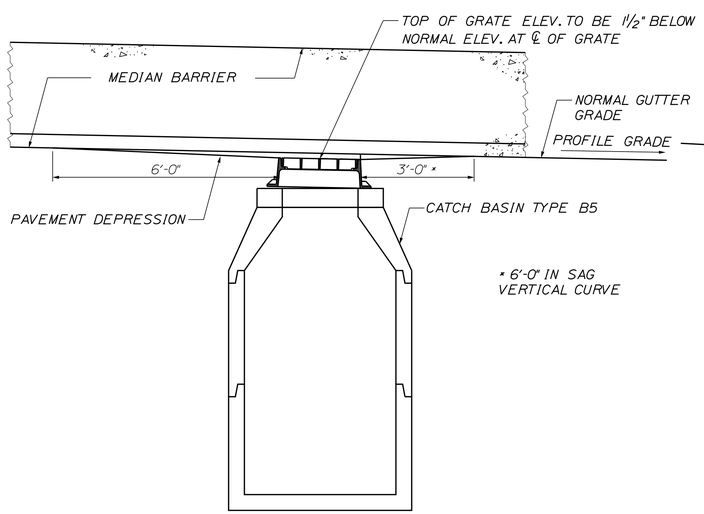
CATCH BASIN OR MANHOLE
NOT TO SCALE



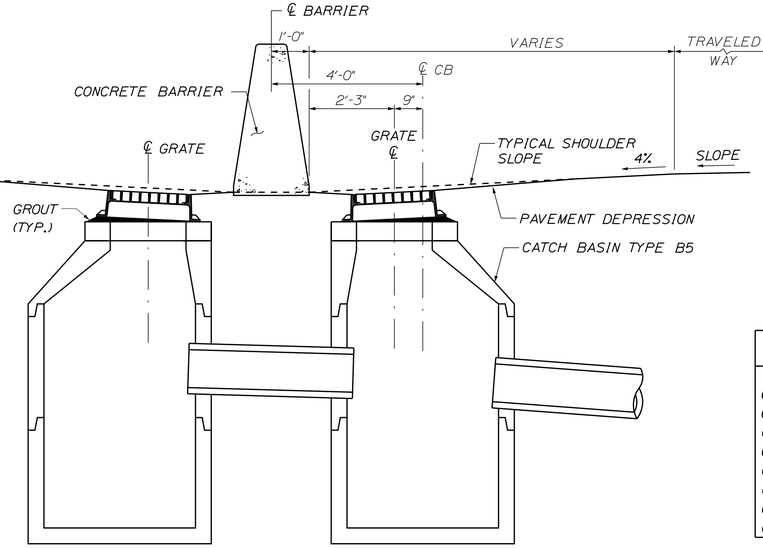
NOTES:

1. CATCH BASIN FRAME AND GRATE TO BE NEENAH FOUNDRY R-3405, OR APPROVED EQUAL.

2. STRUCTURES TO BE DESIGNED FOR H-20 LOADING.



ELEVATION



SECTION A-A

PLACEMENT OF DRAINAGE STRUCTURES ALONG BARRIER

ID	STATION	RIM (A)	OUTLET PIPE DIA (B)	OUTLET PIPE INVERT (C)	INLET PIPE DIA (D)	INLET PIPE INVERT (E)	INLET PIPE DIA (F)	INLET PIPE INVERT (G)	ORIFICE FROM UDF DIA (H)	ORIFICE FROM UDF INVERT (I)
OCS#1	262+43.0, 88.0' LT	43.40	12"	40.57	8"	40.67	--	--	0.7"	40.67
OCS#2	269+16.0, 84.0' LT	42.40	12"	39.15	8"	39.65	--	--	0.8"	39.65
OCS#3	291+53.0, 125.0' LT	84.00	12"	80.15	8"	80.65	--	--	1.3"	80.65
OCS#4	293+95.0, 118.5' RT	104.00	15"	100.15	8"	100.65	--	--	1.2"	100.65
OCS#5	312+51.0, 126.0' RT	116.00	12"	112.15	8"	112.65	--	--	0.8"	112.65
OCS#6	341+95.0, 257.0' LT	163.00	12"	158.15	8"	158.65	--	--	1.2"	158.65
OCS#7	347+22.0, 231.0' LT	163.25	12"	159.15	8"	159.65	--	--	0.7"	159.65
OCS#8	353+95.0, 166.0' RT	146.15	15"	142.15	8"	142.65	--	--	1.1"	142.65
OCS#9	354+94, 152.0' RT	146.00	18"	141.43	8"	142.65	15"	141.68	1.2"	142.65

OUTLET CONTROL STRUCTURE (CB-4)
NOT TO SCALE

Date:10/14/2016

Filename: ...\014_Typical_01_DRAINAGE.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by: SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM

CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	09/16/16
Drawn	DB	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS
75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

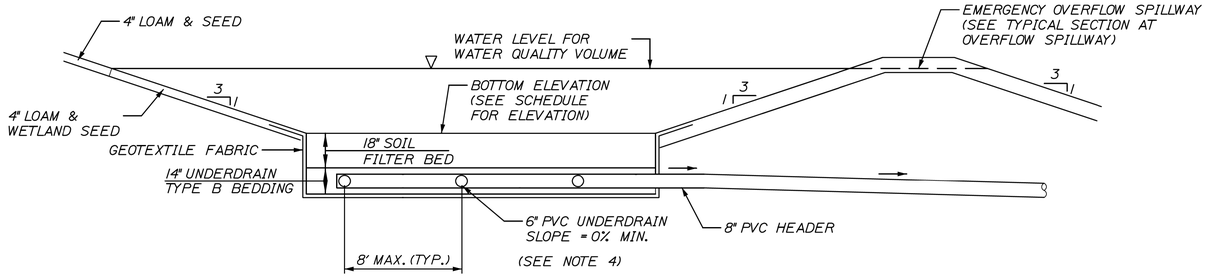
YORK TOLL PLAZA

DRAINAGE DETAILS

SHEET NUMBER: 14

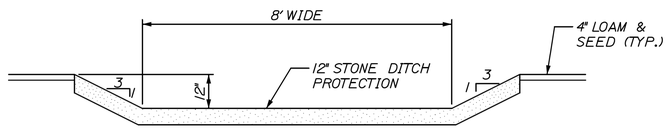
CONTRACT: WIN 2017.XX

14 OF _



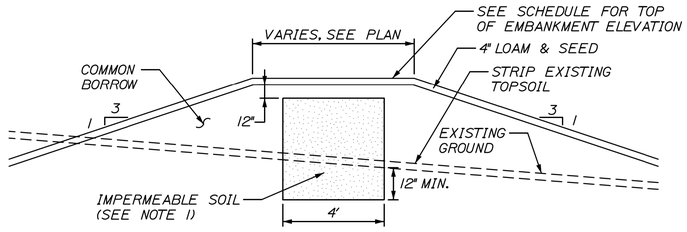
USF BASIN TYPICAL SECTION

NOT TO SCALE



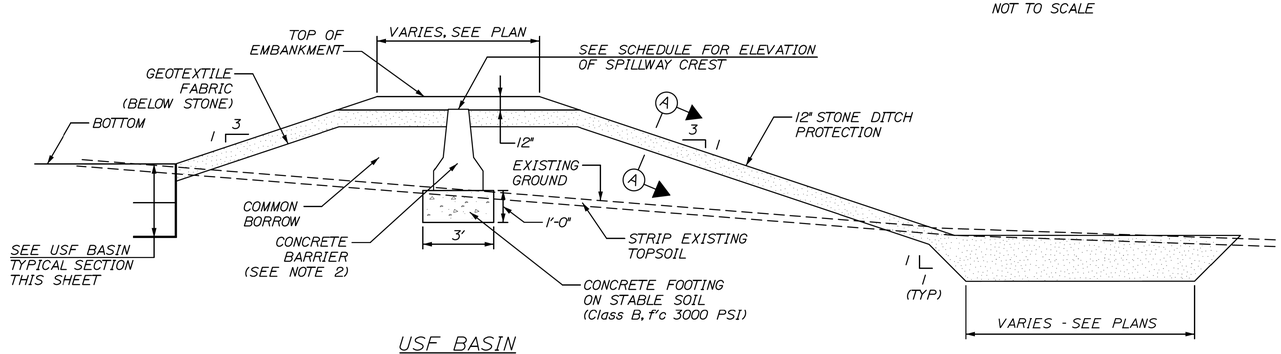
USF BASIN-EMERGENCY SPILLWAY SECTION A-A

NOT TO SCALE



USF BASIN TYPICAL SECTION AT EMBANKMENTS

NOT TO SCALE



USF BASIN TYPICAL SECTION AT OVERFLOW SPILLWAY

NOT TO SCALE

NOTES:

1. AT EMERGENCY SPILLWAY, IMPERMEABLE SOIL (EMBANKMENT CORE) SHALL TIE INTO CONCRETE BARRIER AND EXTEND 3 FEET ALONG EACH END OF CONCRETE BARRIER.
2. SET TOP OF CONCRETE BARRIER LEVEL AND AT DESIGNATED ELEVATION OF SPILLWAY CREST.
3. FOR LAYOUT OF UNDERDRAIN SOIL FILTER (USF BASINS), SEE PROPOSED GRADING AND DRAINAGE PLANS.
4. FOR LAYOUT OF UNDERDRAIN PIPING, SEE PROPOSED GRADING AND DRAINAGE PLANS.
5. 6" PVC PIPE LOCATED BELOW SEDIMENT FOREBAY SHALL BE SOLID WALL PIPE.

USF BASIN SCHEDULE

USF BASIN	BASIN ELEVATIONS			STATION
	BOTTOM	TOP OF EMBANKMENT	SPILLWAY CREST	
#1	43.00	44.00	43.60	262+00 LT
#2	42.00	43.00	42.60	268+00 LT
#3	83.00	85.00	84.50	291+00 LT
#4	103.00	105.00	104.50	295+00 RT
#5	115.00	118.00	117.00	313+00 RT
#6	161.00	165.00	164.50	342+00 LT
#7	162.00	164.00	163.75	342+50 LT
#8	145.00	147.00	147.00	353+50 RT
#9	145.00	147.00	146.75	354+50 RT

USF BASIN SPECIFICATIONS:

1. SOIL FILTER BED MATERIAL SHALL BE A LIGHTLY COMPACTED THOROUGHLY BLENDED MIXTURE OF THE FOLLOWING:
   - SAND (50-55% BY VOLUME): MEDOT SPEC. 703.01 (FINE AGGREGATE FOR CONCRETE).
   - TOPSOIL (20-30% BY VOLUME): LOAMY SAND TOPSOIL W/ MINIMAL CLAY CONTENT & BETWEEN 15-25% FINES PASSING #200 SIEVE.
   - MULCH (20-30% BY VOLUME): MODERATELY FINE SHREDDED BARK MULCH OR WOOD FIBER MULCH W/ LESS THAN 5% PASSING #200 SIEVE.
2. UNDERDRAIN BACKFILL (BEDDING) SHALL BE WELL GRADED, CLEAN, COARSE GRAVEL MEETING MEDOT SPECIFICATION 703.22, TYPE B UNDERDRAIN BACKFILL. NO MORE THAN 2% BY WEIGHT SHALL PASS THE #200 SIEVE.
3. GEOTEXTILE FABRIC SHALL BE MEDOT SPECIFICATION 722.02, CLASS A DESIGNATION.
4. UNDERDRAIN PIPE SHALL BE PVC CONFORMING TO ASTM D3034, SDR 35. (UNDERDRAIN LATERALS SHALL BE 6" INCH SLOTTED PVC. 8 INCH PVC HEADER/OUTLET PIPE SHALL NOT BE SLOTTED.)
5. STONE DITCH PROTECTION FOR EMERGENCY SPILLWAY AND PIPE OUTLET/DITCH PROTECTION SHALL BE MEDOT SPECIFICATION 703.29, WITH 90-100% WEIGHT OF ROCK PASSING AN 8 INCH SIEVE AND 0-15% PASSING A 4 INCH SIEVE.
6. PRECAST CONCRETE BARRIER SHALL BE NEW, UNUSED (CLEAN) UNITS, 10 FOOT LONG EACH.
7. SURFACE OF SOIL FILTER SHALL BE PLANTED WITH WETLAND SEED "NEW ENGLAND EROSION CONTROL/RESTORATION MIX" AS SUPPLIED BY NEW ENGLAND WETLAND PLANTS, INC. SEED MIX SHALL BE APPLIED AT DOUBLE THE MANUFACTURERS APPLICATION RATE. SURFACE SHALL BE STABILIZED WITH AN APPROVED EROSION CONTROL MATTING.
8. IMPERMEABLE SOIL (EMBANKMENT CORE) SHALL BE MEDOT SPECIFICATION 203.245, CLAY BORROW.
9. STORMWATER FILTER SHALL BE CONSTRUCTED TO THE LIMITS AND DETAILS SHOWN ON THE PLANS AND THE ABOVE SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE RESIDENT.
10. FILTER BED MATERIAL SHALL NOT BE PLACED IN USF BASINS UNTIL THE TRIBUTARY DRAINAGE AREA IS PERMANENTLY STABILIZED AGAINST EROSION.
11. EROSION CONTROL BLANKETS CONFORMING TO MAINE DOT STANDARD DETAIL 802(02) SHALL BE PROVIDED ON ALL USF BASIN EMBANKMENT SLOPES, BOTH INTERIOR & EXTERIOR SLOPES.

Date: 9/16/2016

Filename: ...\015_Typical_02_DRAINAGE.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by: SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
CONSULTANT PROJECT MANAGER: S. SAWYER, P.E.

	By	Date		By	Date
Designed	PDO	09/16/16	Checked	DLR	09/16/16
Drawn	DB	09/16/16	In Charge of	---	--/--

SEBAGO TECHNICS
75 JOHN ROBERTS ROAD,
SUITE 1A
SOUTH PORTLAND, ME 04106
TEL (207) 200-2100

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: R. NORWOOD

YORK TOLL PLAZA

DRAINAGE DETAILS

SHEET NUMBER: 15

CONTRACT: 2017.09

15 OF