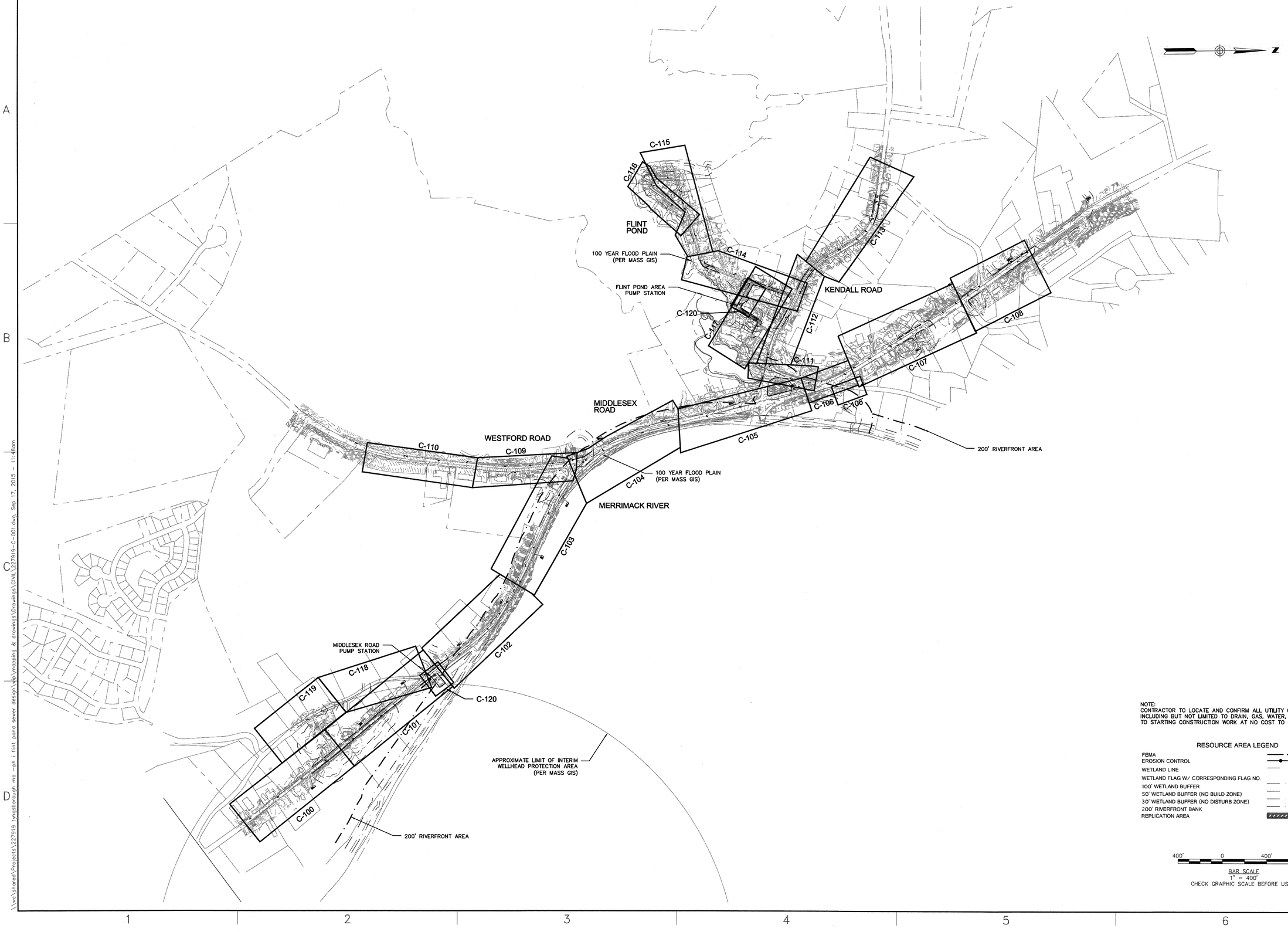
22x34 SHEET
1:1



NOTE:
CONTRACTOR TO LOCATE AND CONFIRM ALL UTILITY CROSSINGS INCLUDING BUT NOT LIMITED TO DRAIN, GAS, WATER, TELECOM PRIOR TO STARTING CONSTRUCTION WORK AT NO COST TO OWNER.

RESOURCE AREA LEGEND

FEMA
EROSION CONTROL
WETLAND LINE
WETLAND FLAG W/ CORRESPONDING FLAG NO.
100' WETLAND BUFFER
50' WETLAND BUFFER (NO BUILD ZONE)
30' WETLAND BUFFER (NO DISTURB ZONE)
200' RIVERFRONT BANK
REPLICATION AREA

400' 0 400' 800'
BAR SCALE
1" = 400'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. TROIDL
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

DESIGNED BY: JT
DRAWN BY: BM/KCS
CHECKED BY: JT/JK
227919-C-001.DWG

OVERALL KEY PLAN

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

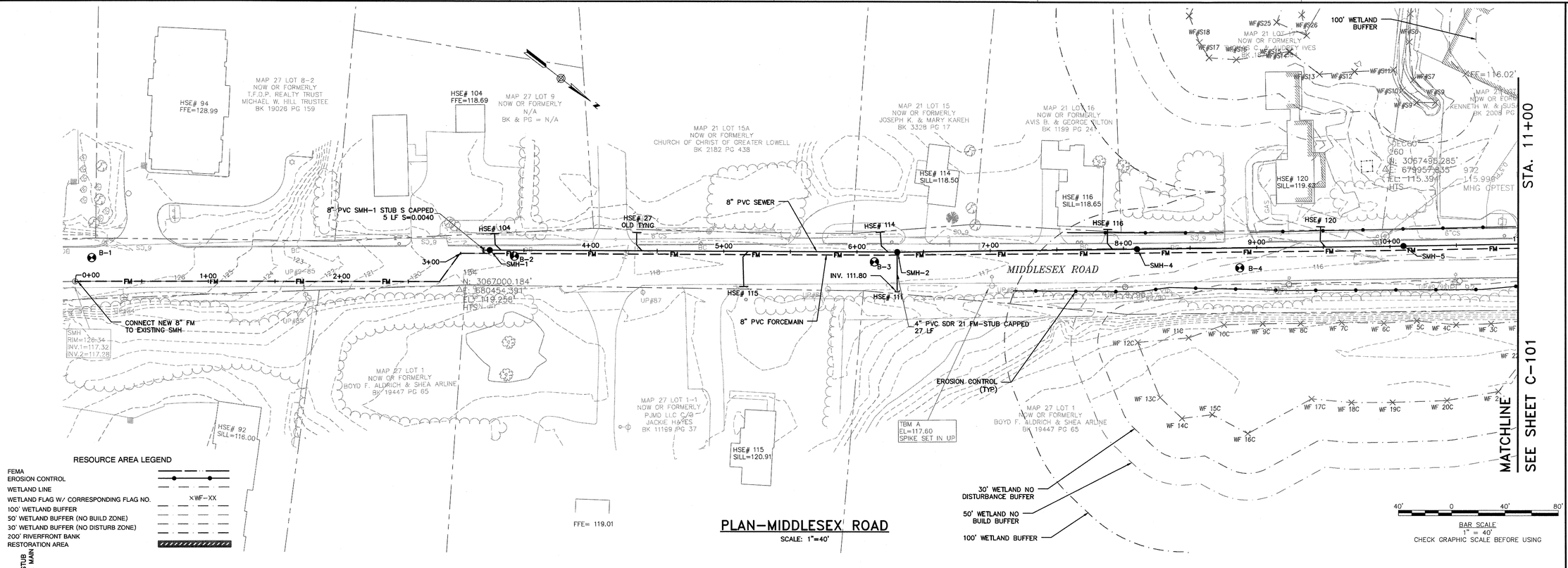
PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 2 OF 49

C-001

\\wc\shared\Projects\227919 tyngsborough ma -ph i flint pond sewer design\wip\mapping & drawings\Drawings\CIVIL\227919-C-001.dwg, Sep 17, 2015 - 11:48am

22x34 SHEET
1:1

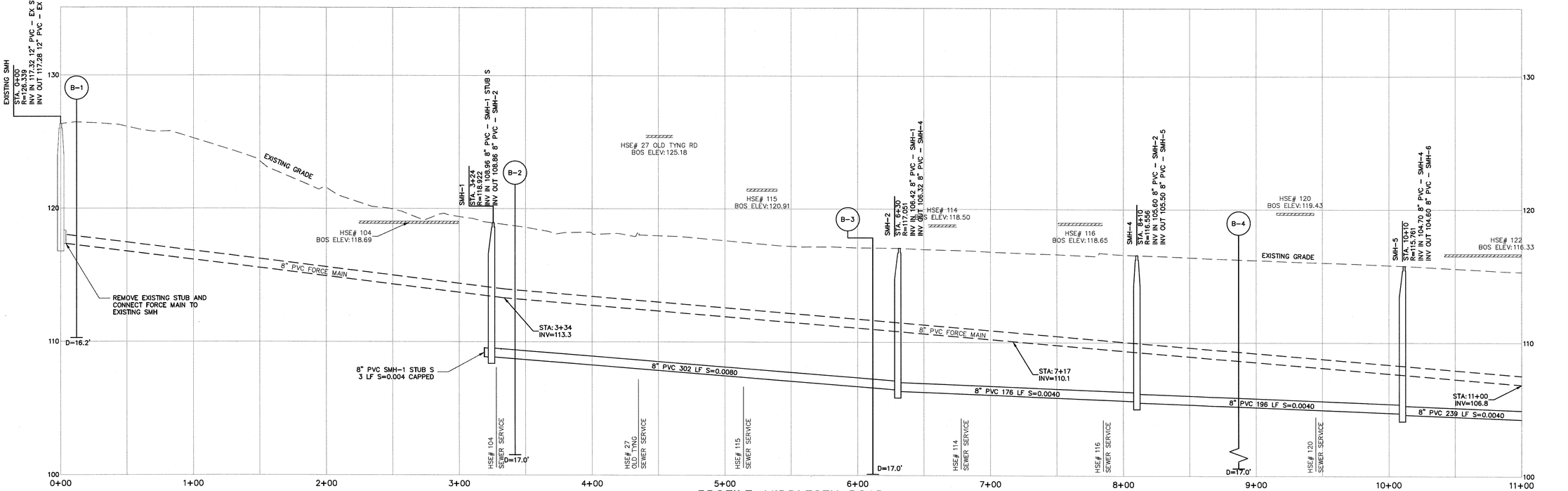


PLAN–MIDDLESEX ROAD

SCALE: 1"=40'

RESOURCE AREA LEGEND

- FEMA
- EROSION CONTROL
- WETLAND LINE
- WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF-XX
- 100' WETLAND BUFFER
- 50' WETLAND BUFFER (NO BUILD ZONE)
- 30' WETLAND BUFFER (NO DISTURB ZONE)
- 200' RIVERFRONT BANK
- RESTORATION AREA



PROFILE–MIDDLESEX ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. TROTA
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV.	DESCRIPTION	DATE
DESIGNED BY: JT	CHECKED BY: JT/JK	
DRAWN BY: BM/KCS	227919-C-100_C-108.DWG	

MIDDLESEX ROAD PLAN & PROFILE 1
STA 0+00 TO 11+00

TOWN OF
TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 3 OF 49

C-100

\\wc\shared\Projects\227919 Tyngsborough MA -Ph I Flint Pond Sewer Design\Wip\Mapping & Drawings\Drawings\Civil\227919-C-100_C-108.dwg, Sep 14, 2015 - 2:42pm

STA. 11+00

MATCHLINE SEE SHT. C-100

STA. 22+00

MATCHLINE SEE SHT. C-102

30' WETLAND NO DISTURBANCE BUFFER

50' WETLAND NO BUILD BUFFER

MAP 21 LOT 19
NOW OR FORMERLY
TYNGSBORO PLAZA TRUST
DAVID V. POPOLIZIO TRUSTEE
BK 8823 PG 215

MAP 21 LOT 19A
NOW OR FORMERLY
ERIC & KIMBERLY GRIECO
BK 2336 PG 303

MAP 21 LOT 20
NOW OR FORMERLY
FRANK & CAROL BUNKER
BK 8375 PG 167

MAP 21 LOT 21
NOW OR FORMERLY
MARILYN G. SHAUGHNESSY
&
JAMES A. SHAUGHNESSY
BK 3317 PG 31

MAP 21 LOT 22
NOW OR FORMERLY
LEON & ISABEL LAPIERRE
C/O ATTY ROBERT R. WHITE
BK & PG = N/A

MAP 21 LOT 14-1
NOW OR FORMERLY
TYNGSBORO CROSSING REALTY TRUST
DENNIS M. PAGE TRUSTEE
BK 11069 PG 274

MAP 21 LOT 14
NOW OR FORMERLY
TYNGSBORO CROSSING REALTY TRUST
DENNIS M. PAGE TRUSTEE
BK 11069 PG 274

176
N: 3067810.284'
E: 679456.261'
EL: 125.555'
MMAG

132
N: 3068434.282'
E: 679270.024'
EL: 109.693'
HTS

135
N: 3068434.282'
E: 679270.024'
EL: 109.693'
HTS

178
N: 3068284.048'
E: 679398.045'
EL: 110.799'
MMAG

TBM B
EL=114.91
SPIKE SET IN UP

TBM C
EL=112.07
SPIKE SET IN UP

SILTSACK INLET PROTECTION (TYP)

EROSION CONTROL (TYP)

100' WETLAND BUFFER

200' RIVERFRONT AREA

100' WETLAND BUFFER
HSE# 142

15" PVC SEWER

6" PVC SEWER

8" PVC FORCEMAIN

8" PVC SMH-9 STUB E CAPPED
26 LF S=0.0040

6' CHAIN LINK SLIDE GATE

VALVE CHAMBER
R=110.5

WET WELL
R=110.5

PROPOSED PERMEABLE PAVER

APPROXIMATE LIMIT OF INTERIM WELLHEAD PROTECTION AREA (PER MASS GIS)

DRY WELL
CRUSHED STONE
MIDDLESEX ROAD PUMP STATION 19.33'x16.5'
FFE=110.50
SEE SITE PLAN C-120

CONSTRUCTION STAGING AREA

PERMANENT UTILITY EASEMENT

SMH-150

SMH-160

SMH-161

OLD TYNG ROAD

MIDDLESEX ROAD

HSE# 122
HSE# 130
FFE=122.47
HSE# 134
SILL=115.84
HSE# 138
SILL=113.17
HSE# 41
OLD TYNG
HSE# 142

B-5
B-6
B-7
B-8
B-9

RESOURCE AREA LEGEND

FEMA
EROSION CONTROL
WETLAND LINE
WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF-XX
100' WETLAND BUFFER
50' WETLAND BUFFER (NO BUILD ZONE)
30' WETLAND BUFFER (NO DISTURB ZONE)
200' RIVERFRONT BANK
RESTORATION AREA

40' 0 40' 80'
BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

PLAN–MIDDLESEX ROAD
SCALE: 1"=40'

PROFILE–MIDDLESEX ROAD
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

OLD TYNG ROAD

HSE# 130
BOS ELEV:122.47

HSE# 134
BOS ELEV:115.84

HSE# 138
BOS ELEV:113.17

HSE# 142
BOS ELEV:113.77

SMH-6
STA: 12+53
R=114.540
INV IN 103.62 8" PVC – SMH-5
INV OUT 103.52 8" PVC – SMH-7

SMH-7
STA: 15+53
R=111.152
INV IN 102.34 8" PVC – SMH-6
INV OUT 102.24 8" PVC – SMH-8

SMH-8
STA: 18+53
R=111.150
INV IN 101.06 8" PVC – SMH-7
INV OUT 100.96 8" PVC – SMH-9

SMH-9 (5' DIA DROP MH)
STA: 20+19
R=110.5
INV IN 100.30 8" PVC – SMH-8
INV IN 100.25 8" PVC – SMH-160
INV IN 96.78 8" PVC – SMH-8 STUB E
INV OUT 96.68 8" PVC – SMH-10

SMH-10
STA: 21+38
R=110.800
INV IN 95.63 15" PVC – SMH-11
INV IN 96.21 8" PVC – SMH-9
INV OUT 95.53 15" PVC – SMH-150

CONNECT FORCE MAIN TO PUMP STATION VALVE CHAMBER, SEE DETAIL SHEET C-500

16" VC SD

12" CLAY SD

8" PVC FORCE MAIN
STA: 11+91
INV=106.1

8" PVC 296 LF S=0.0040

STA: 16+67
INV=105.1

8" PVC 296 LF S=0.0040

8" PVC 162 LF S=0.0040

8" PVC 115 LF S=0.0040

STA: 21+04
INV=104.2

D=17.0'
D=15.0'
D=15.0'
D=22.0'
R=28.2'

HSE# 122 SEWER SERVICE
HSE# 130 SEWER SERVICE
LOT# 21 19A SEWER SERVICE
HSE# 134 SEWER SERVICE
HSE# 138 SEWER SERVICE
HSE# 142 SEWER SERVICE

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. TROTA, P.E.
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

DESIGNED BY: JT
DRAWN BY: BM/KCS
CHECKED BY: CT/JK
Z:\2019\D-C-100_C-108.DWG

MIDDLESEX ROAD PLAN & PROFILE 2
STA 11+00 TO 22+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

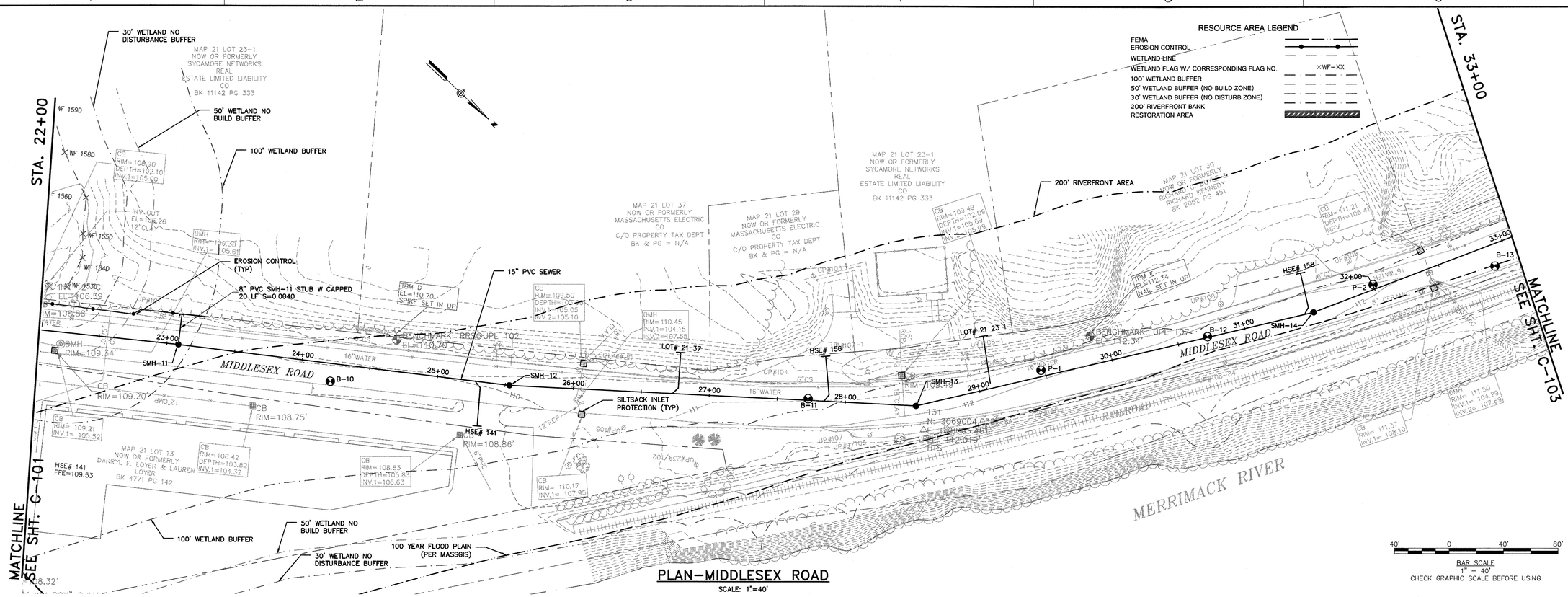
PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 4 OF 49

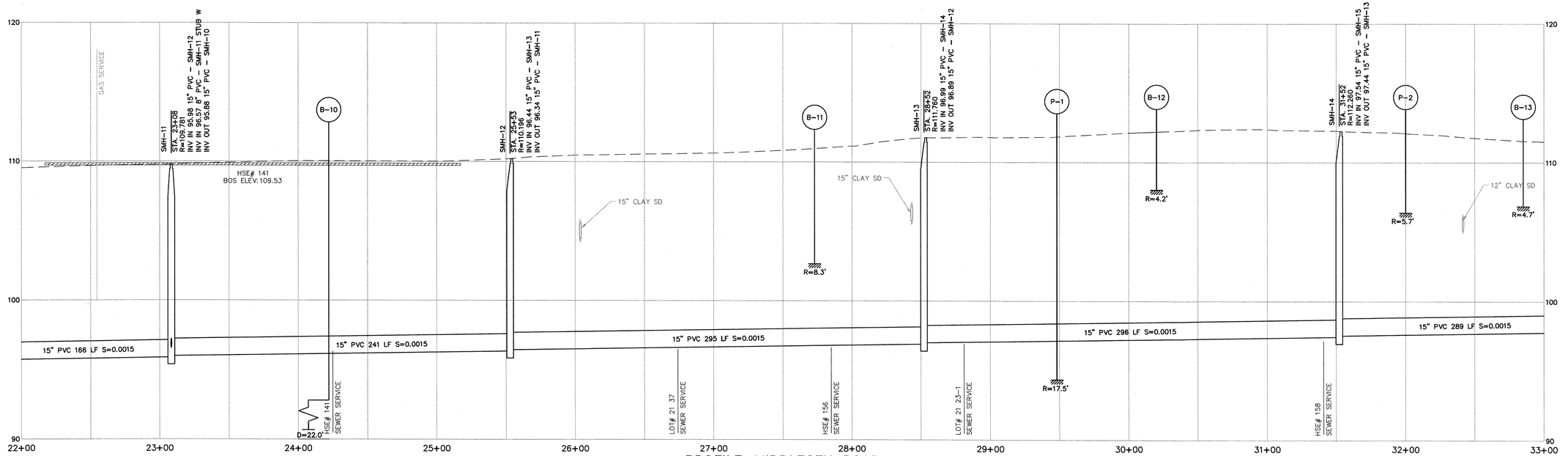
C-101

\\wc\shared\Projects\227919 tyngsborough ma-ph 1 flint pond sewer design\dp\mapping & drawings\Drawings\CIVIL\227919-C-100_C-108.dwg, Sep 17, 2015 - 11:40am

22x34 SHEET
1:1



PLAN–MIDDLESEX ROAD
SCALE: 1"=40'



PROFILE–MIDDLESEX ROAD
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. JOHNSON
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE
DESIGNED BY: JT	CHECKED BY: JT/JK	
DRAWN BY: BM/KCS	227919-C-100_C-108.DWG	

MIDDLESEX ROAD PLAN & PROFILE 3
STA 22+00 TO 33+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 5 OF 49

C-102

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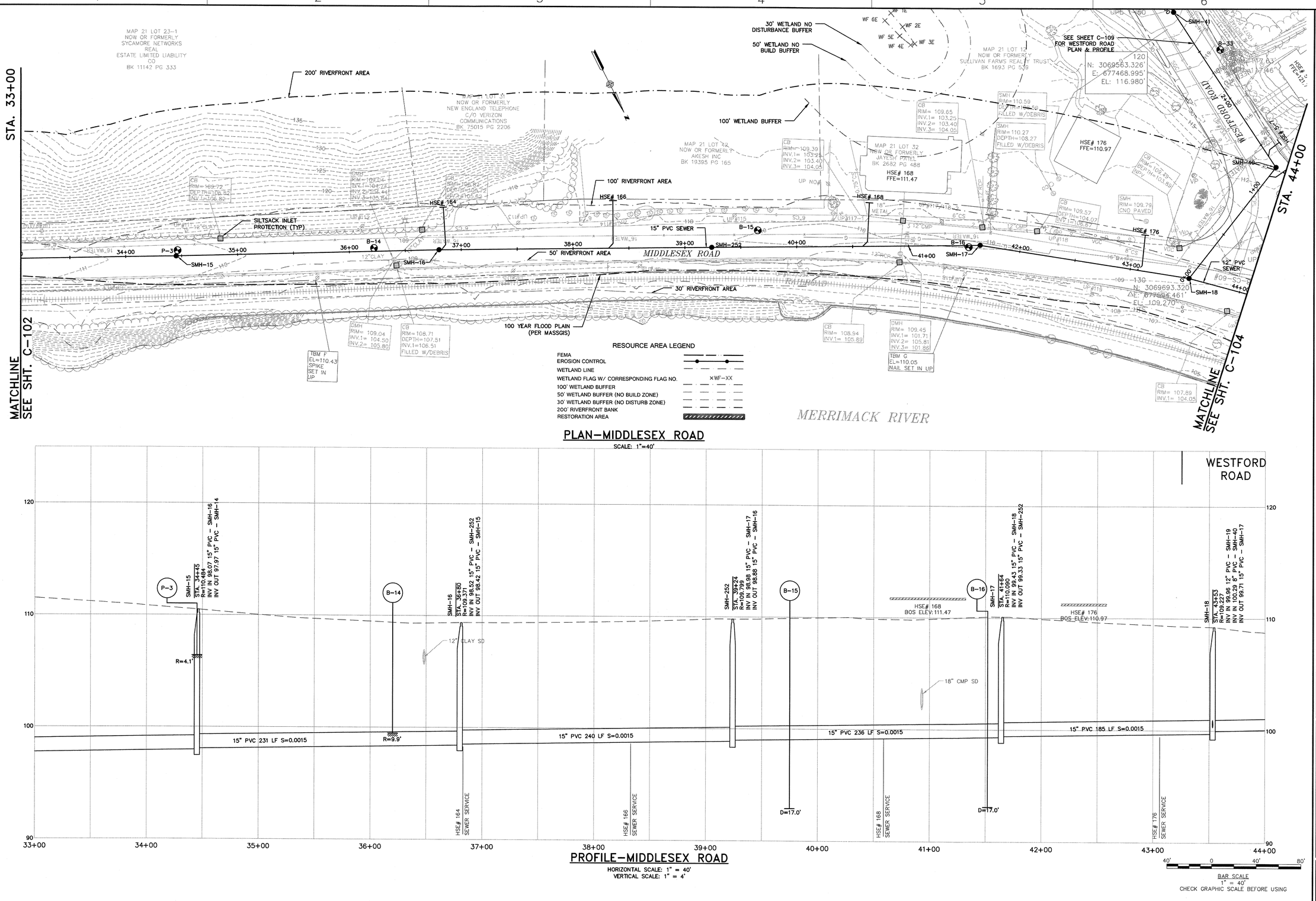
22x34 SHEET
1:1



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COMMONWEALTH OF MASSACHUSETTS JACOB C. TROOL CIVIL NO. 47162 REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

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CHECKED BY: JT/JK
227919-C-100_C-108.DWG

MIDDLESEX ROAD PLAN & PROFILE 4
STA 33+00 TO 44+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

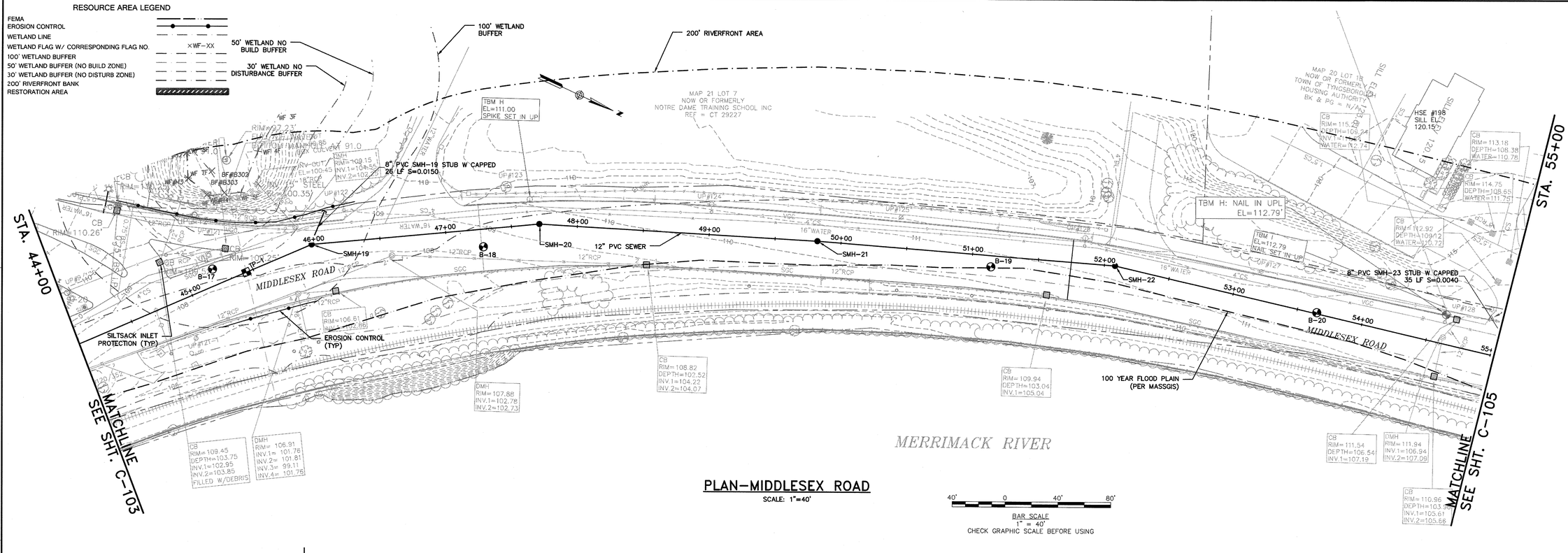
JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 6 OF 49

C-103

\\wc\shared\Projects\227919 Tyngsborough MA -Ph I Flint Pond Sewer Design\wip\Mapping & Drawings\Drawings\CIVIL\227919-C-100_C-108.dwg, Sep 14, 2015 - 2:43pm

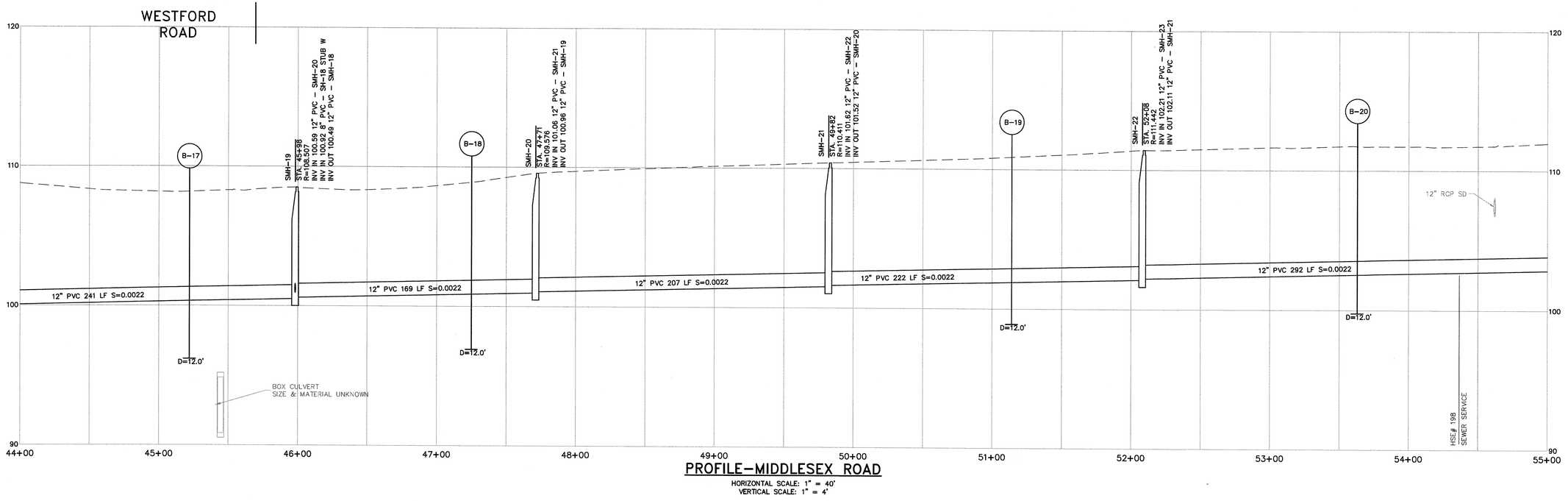
RESOURCE AREA LEGEND

FEMA
EROSION CONTROL
WETLAND LINE
WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF–XX
100' WETLAND BUFFER
50' WETLAND BUFFER (NO BUILD ZONE)
30' WETLAND BUFFER (NO DISTURB ZONE)
200' RIVERFRONT BANK
RESTORATION AREA



PLAN–MIDDLESEX ROAD
SCALE: 1"=40'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING



PROFILE–MIDDLESEX ROAD
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

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COMMONWEALTH OF MASSACHUSETTS
JASON C. TROTA
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

DESIGNED BY: JT
DRAWN BY: BM/KCS
CHECKED BY: JT/JK
J:\27919-C-100_C-108.DWG

MIDDLESEX ROAD PLAN & PROFILE 5
STA 44+00 TO 55+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 7 OF 49

C-104

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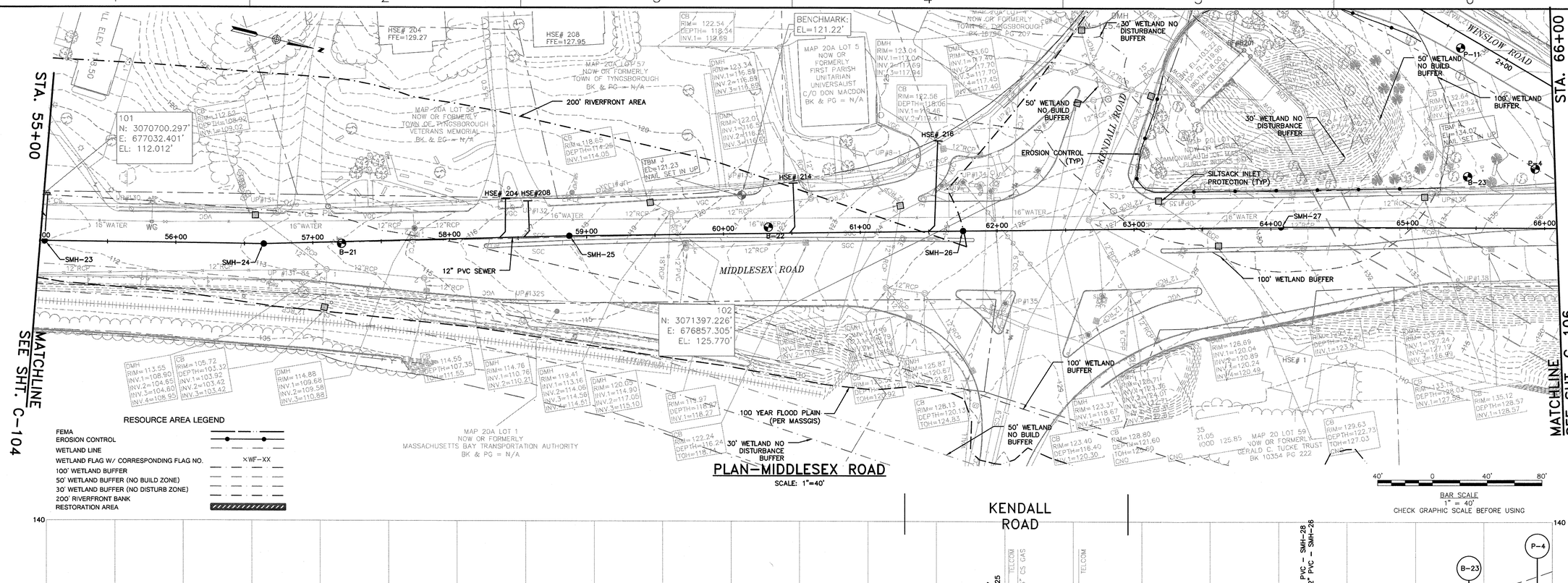

PLAN–MIDDLESEX ROAD
SCALE: 1"=40'

PROFILE–MIDDLESEX ROAD
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. HOOL
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE
DESIGNED BY: JT	CHECKED BY: JT/JK	
DRAWN BY: BM/KCS	227919-C-100_C-108.DWG	

MIDDLESEX ROAD PLAN & PROFILE 6
STA 55+00 TO 66+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.:	227919.00
DATE:	AUGUST 2015
SCALE:	AS NOTED
SHEET:	8 OF 49

C-105

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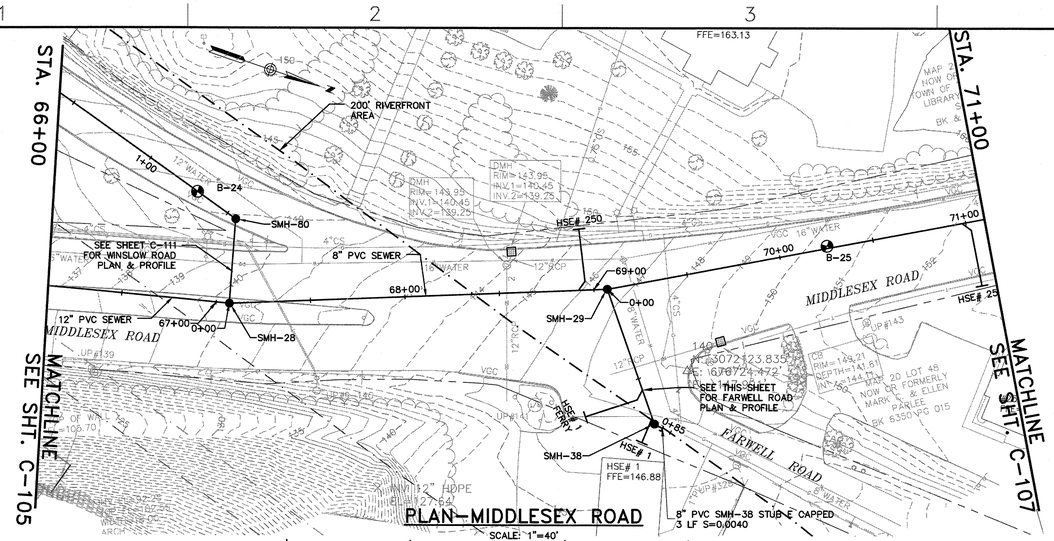
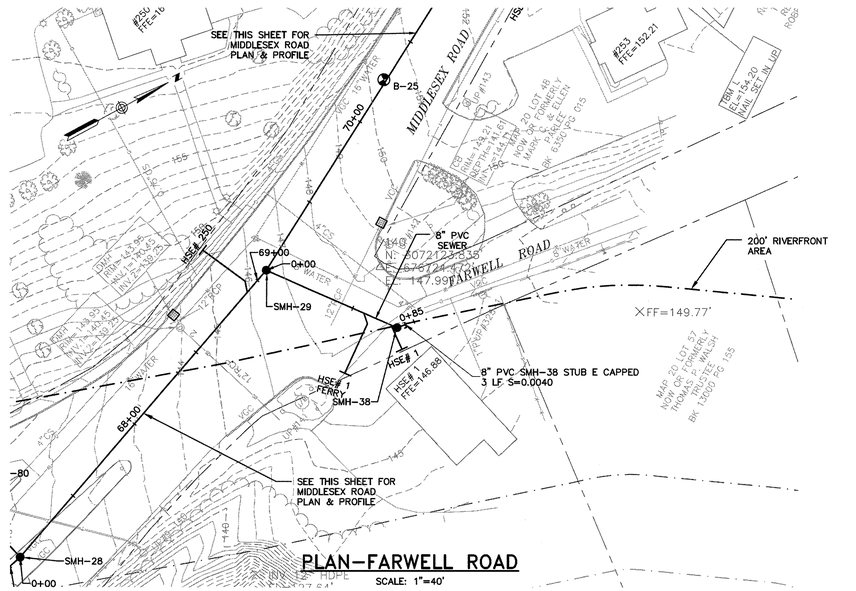


PLAN–MIDDLESEX ROAD

SCALE: 1"=40'

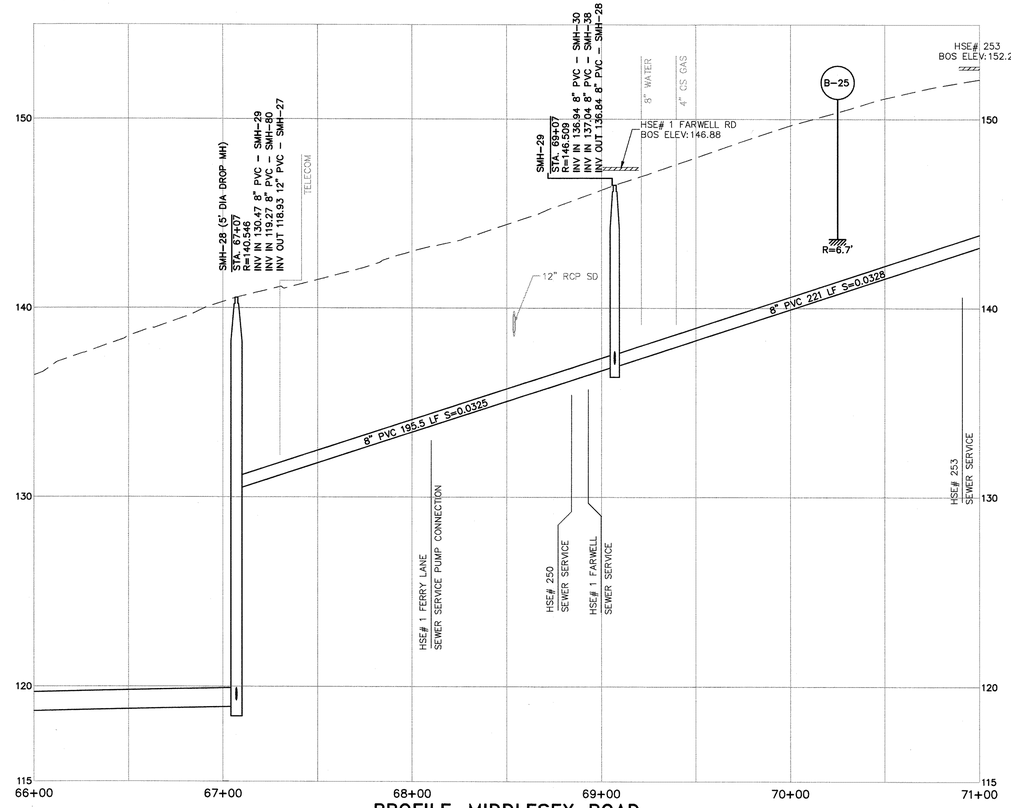


PLAN–FARWELL ROAD

SCALE: 1"=40'

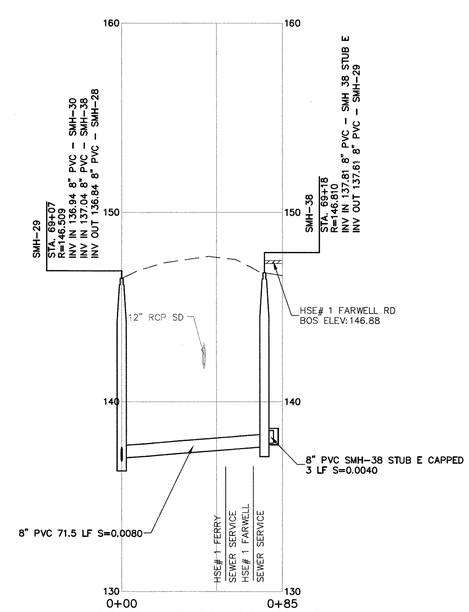
RESOURCE AREA LEGEND

- FEMA
- EROSION CONTROL
- WETLAND LINE
- WETLAND FLAG W/ CORRESPONDING FLAG NO. XWF-XX
- 100' WETLAND BUFFER
- 50' WETLAND BUFFER (NO BUILD ZONE)
- 30' WETLAND BUFFER (NO DISTURB ZONE)
- 200' RIVERFRONT BANK
- RESTORATION AREA



PROFILE–MIDDLESEX ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



PROFILE–FARWELL ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. THOMAS
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV.	DESCRIPTION	DATE

DESIGNED BY: JT
DRAWN BY: BM/KCS
CHECKED BY: JT/JK
227919-C-100_C-106.DWG

MIDDLESEX ROAD PLAN & PROFILE 7
STA: 66+00 TP 71+00 FARWELL ROAD PLAN & PROFILE STA: 0+00 TO 2+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 9 OF 49

C-106

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PLAN—MIDDLESEX ROAD

SCALE: 1"=40'

PROFILE—MIDDLESEX ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

RESOURCE AREA LEGEND

FEMA
EROSION CONTROL
WETLAND LINE
WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF-XX
100' WETLAND BUFFER
50' WETLAND BUFFER (NO BUILD ZONE)
30' WETLAND BUFFER (NO DISTURB ZONE)
200' RIVERFRONT BANK
RESTORATION AREA

40' 0 40' 80'
BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS JACOB C. TROIDL CIVIL NO. 47162 REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

DESIGNED BY: JT | CHECKED BY: JT/JK
DRAWN BY: BM/KCS | 227919-C-100_C-108.DWG

MIDDLESEX ROAD PLAN & PROFILE 8
STA: 71+00 TO 82+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 10 OF 49

C-107

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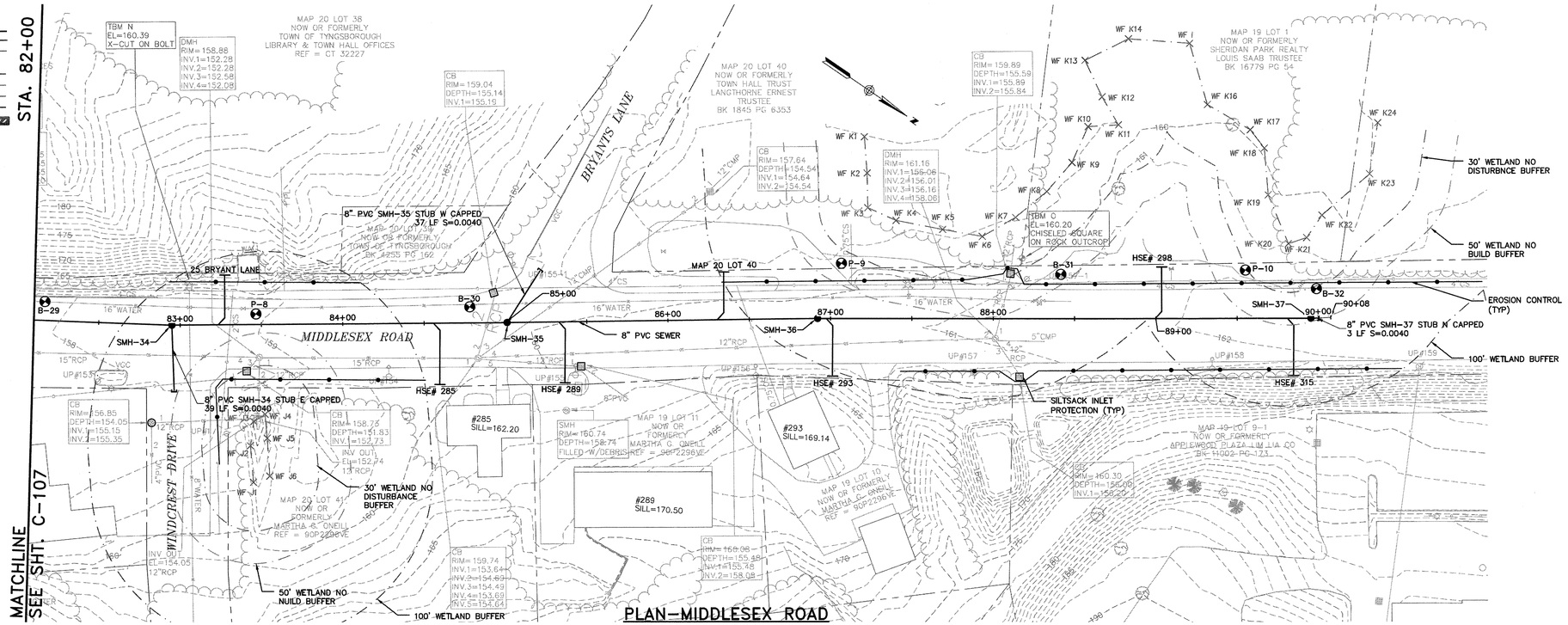
22x34 SHEET
1:1

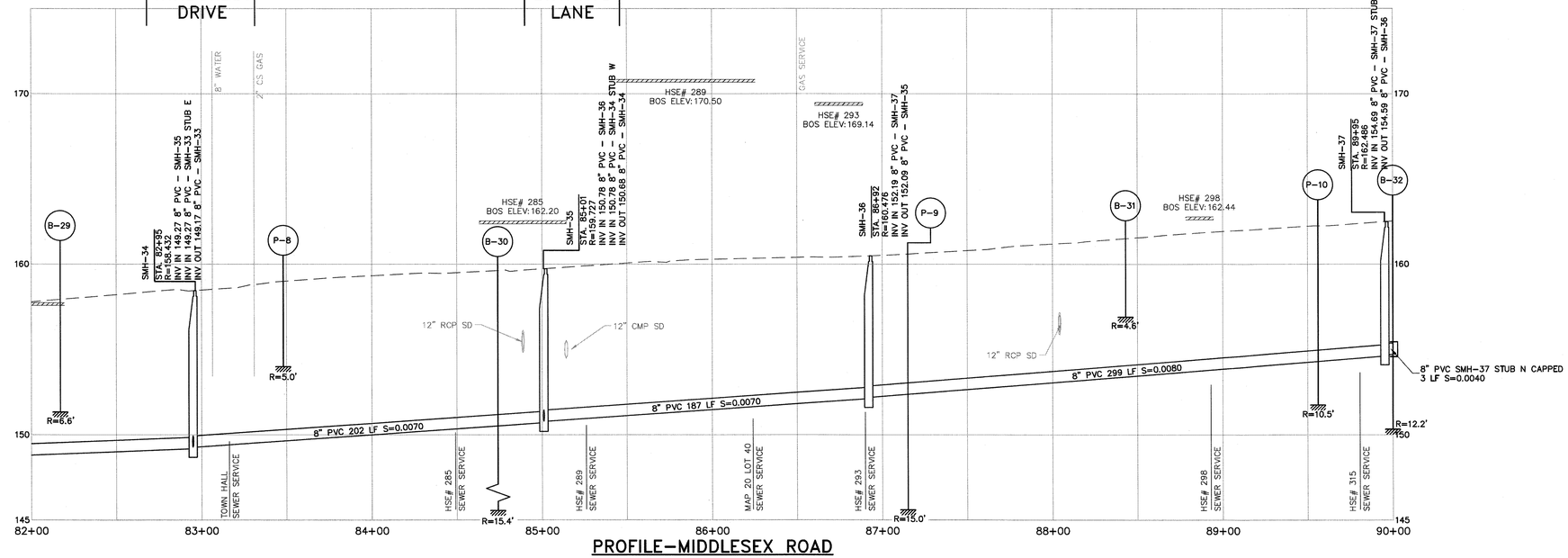
RESOURCE AREA LEGEND

- FEMA
- EROSION CONTROL
- WETLAND LINE
- WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF-XX
- 100' WETLAND BUFFER
- 50' WETLAND BUFFER (NO BUILD ZONE)
- 30' WETLAND BUFFER (NO DISTURB ZONE)
- 200' RIVERFRONT BANK
- RESTORATION AREA



PLAN–MIDDLESEX ROAD

SCALE: 1"=40'



PROFILE–MIDDLESEX ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

40' 0 40' 80'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS JACQUELINE C. TROTT, CIVIL NO. 47152 REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE
DESIGNED BY: JT	CHECKED BY: JT/JK	
DRAWN BY: BM/KCS	227919-C100_C-108.DWG	

MIDDLESEX ROAD PLAN & PROFILE 9
STA: 82+00 TO 90+00

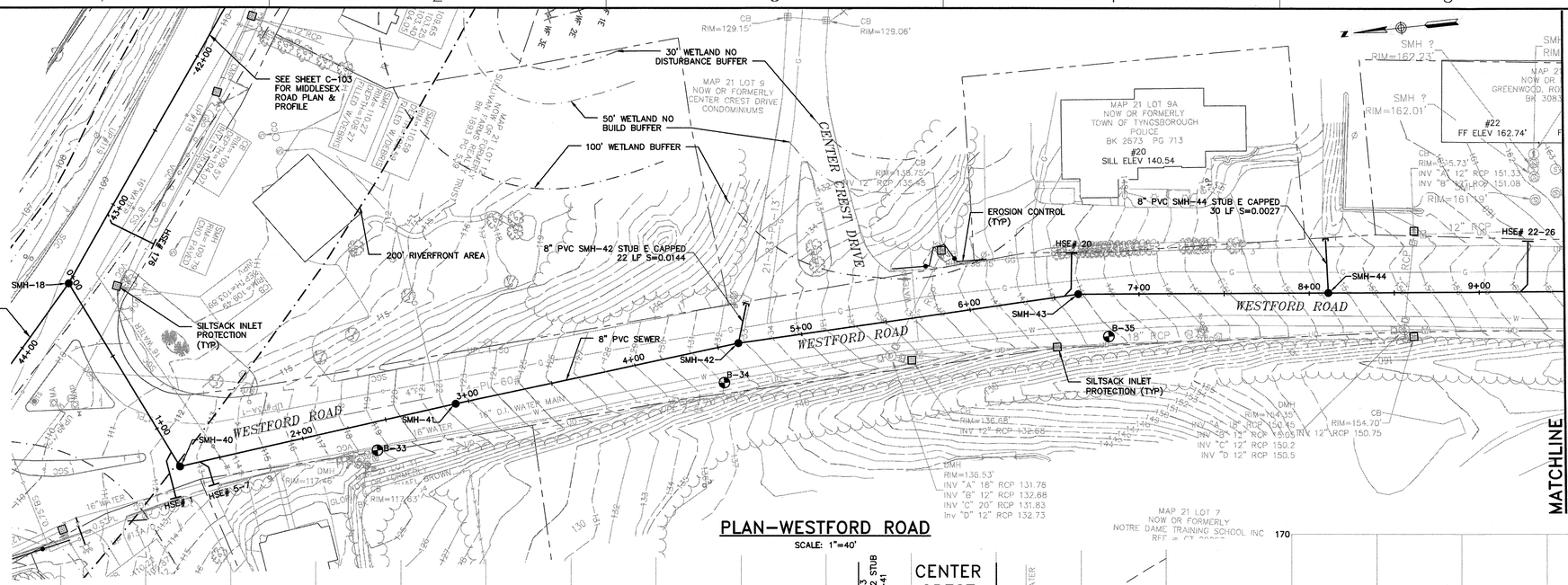
TOWN OF TYNGSBOROUGH, MASSACHUSETTS SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 11 OF 49

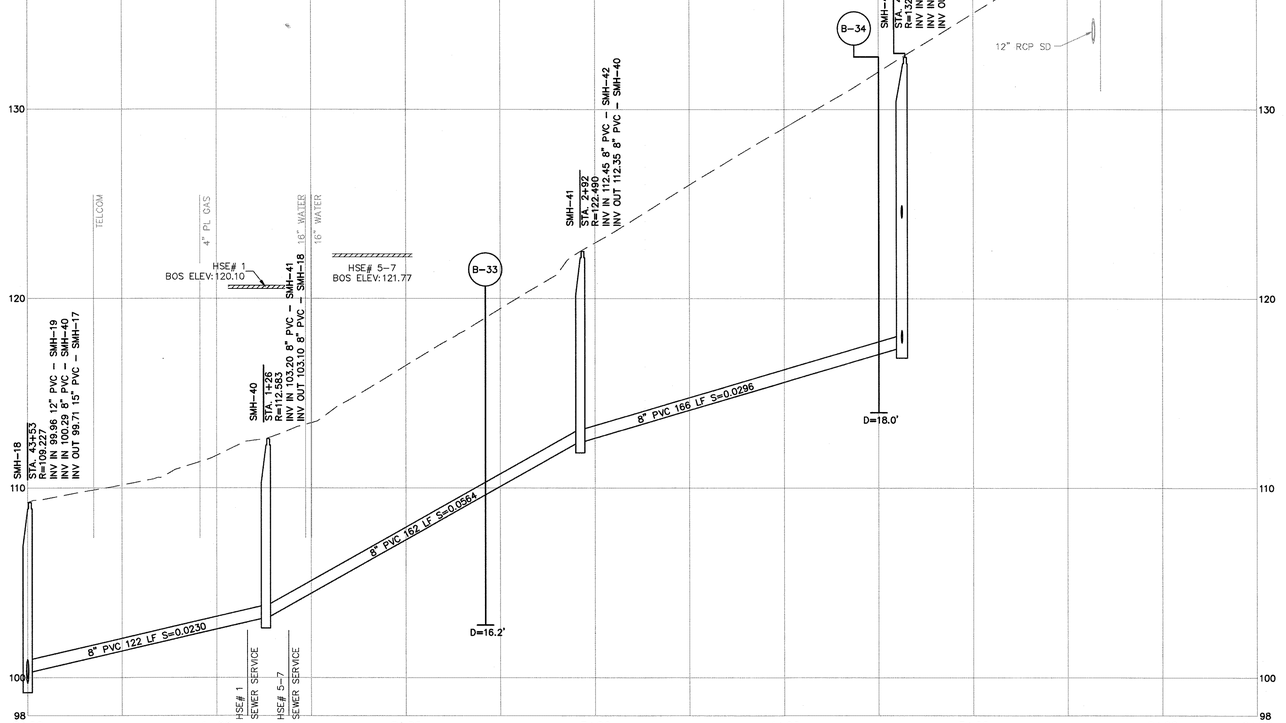
C-108

\\wc\shared\Projects\227919 Tyngsborough MA –Ph 1 Flint Pond Sewer Design\wip\Mapping & Drawings\Drawings\Civil\227919-C-100_C-108.dwg, Sep 15, 2015 - 9:17am



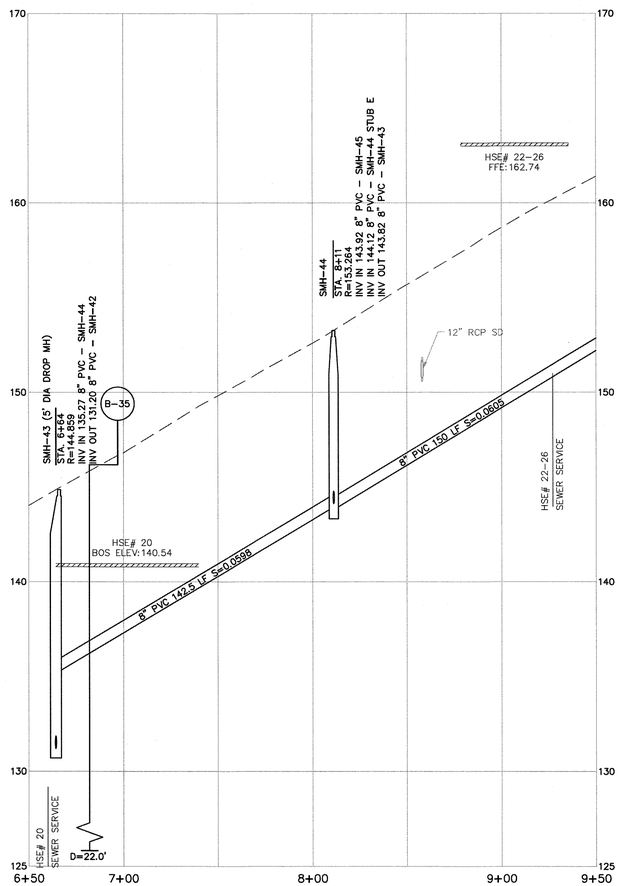
PLAN–WESTFORD ROAD

SCALE: 1"=40'



PROFILE–WESTFORD ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



PROFILE–WESTFORD ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

RESOURCE AREA LEGEND

- FEMA
- EROSION CONTROL
- WETLAND LINE
- WETLAND FLAG W/ CORRESPONDING FLAG NO. (×WF-XX)
- 100' WETLAND BUFFER
- 50' WETLAND BUFFER (NO BUILD ZONE)
- 30' WETLAND BUFFER (NO DISTURB ZONE)
- 200' RIVERFRONT BANK
- RESTORATION AREA

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JACOB C. TROOST, CIVIL, NO. 47164, COMMONWEALTH OF MASSACHUSETTS, REGISTERED PROFESSIONAL ENGINEER

REV.	DESCRIPTION	DATE

DESIGNED BY: JT | CHECKED BY: JT/JK
DRAWN BY: BM/KCS | 227919-C-109_C-110.DWG

WESTFORD ROAD PLAN & PROFILE 1
STA 0+00 TO 6+50 WESTFORD ROAD
PLAN & PROFILE 2 STA 6+50 TO 9+50

TOWN OF TYNGSBOROUGH, MASSACHUSETTS SEWER COMMISSION

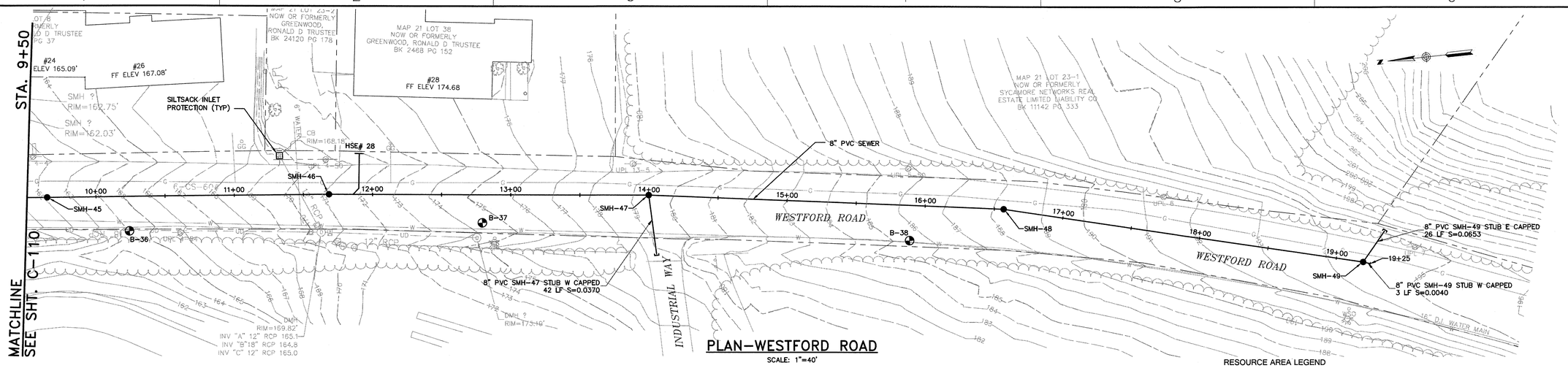
PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 12 OF 49

C-109

\\we\shared\Projects\227919 Tyngsborough MA -Ph I Flint Pond Sewer Design\Wp Mapping & Drawings\Drawings\CIVIL\227919-C-109_C-110.dwg, Sep 14, 2015 - 2:45pm

22x34 SHEET
1:1

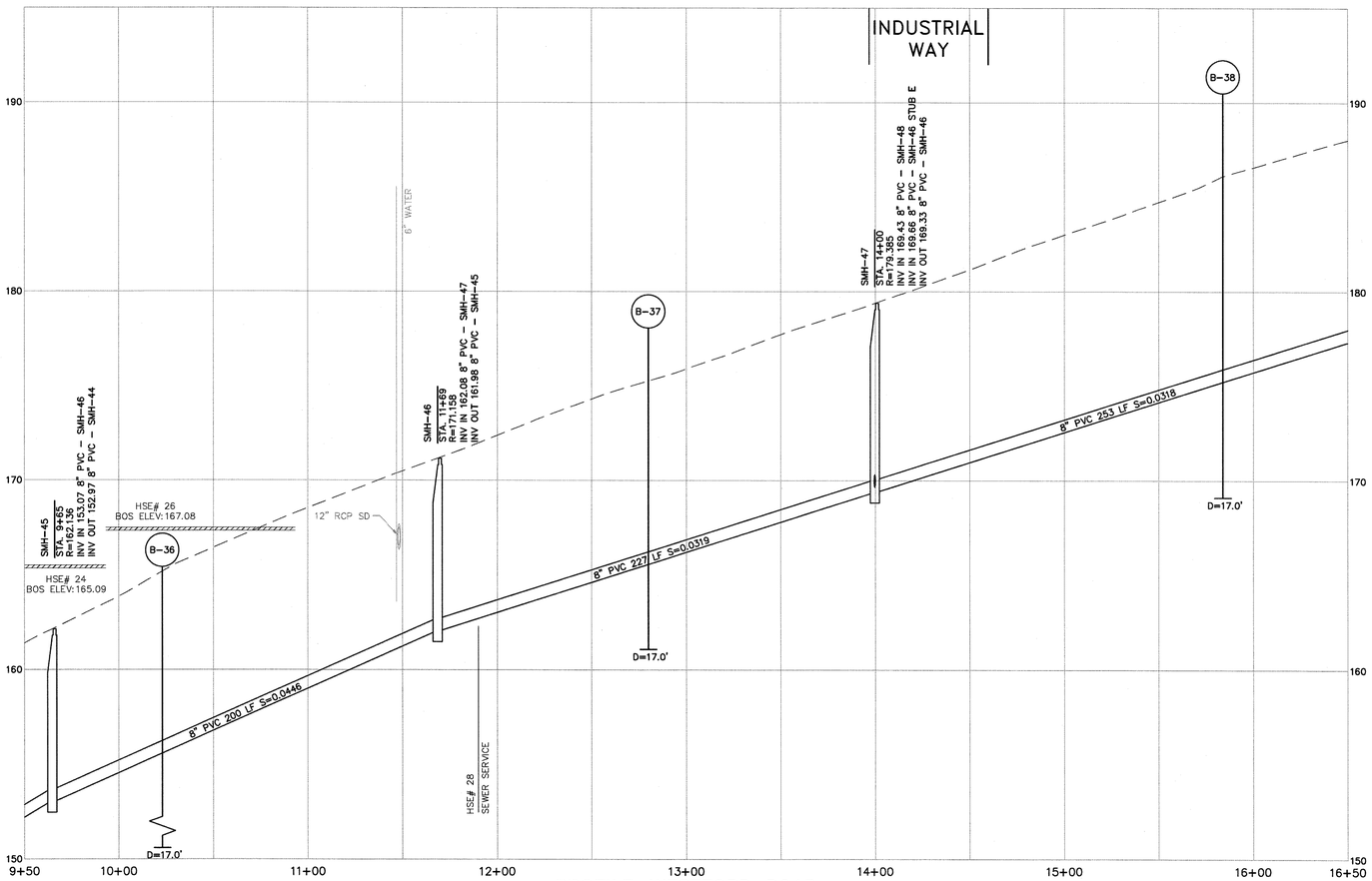


PLAN-WESTFORD ROAD

SCALE: 1"=40'

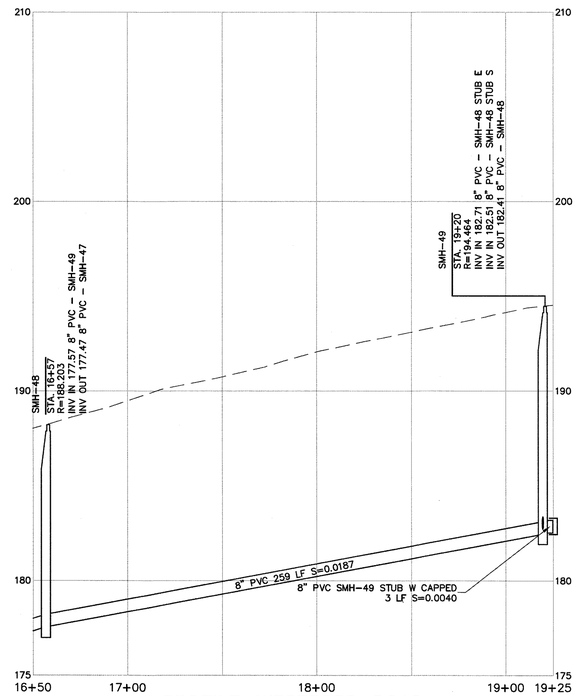
RESOURCE AREA LEGEND

FEMA	
EROSION CONTROL	
WETLAND LINE	
WETLAND FLAG W/ CORRESPONDING FLAG NO.	×WF-XX
100' WETLAND BUFFER	
50' WETLAND BUFFER (NO BUILD ZONE)	
30' WETLAND BUFFER (NO DISTURB ZONE)	
200' RIVERFRONT BANK	
RESTORATION AREA	



PROFILE-WESTFORD ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



PROFILE-WESTFORD ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. TROIDL
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER
7/13/15

REV	DESCRIPTION	DATE

DESIGNED BY: JT
DRAWN BY: BM/KCS
CHECKED BY: JT/JK
227919-C-109_C-110.DWG

WESTFORD ROAD PLAN & PROFILE 3 STA 9+50 TO 16+50 WESTFORD ROAD PLAN & PROFILE 4 STA 16+50 TO 19+25

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

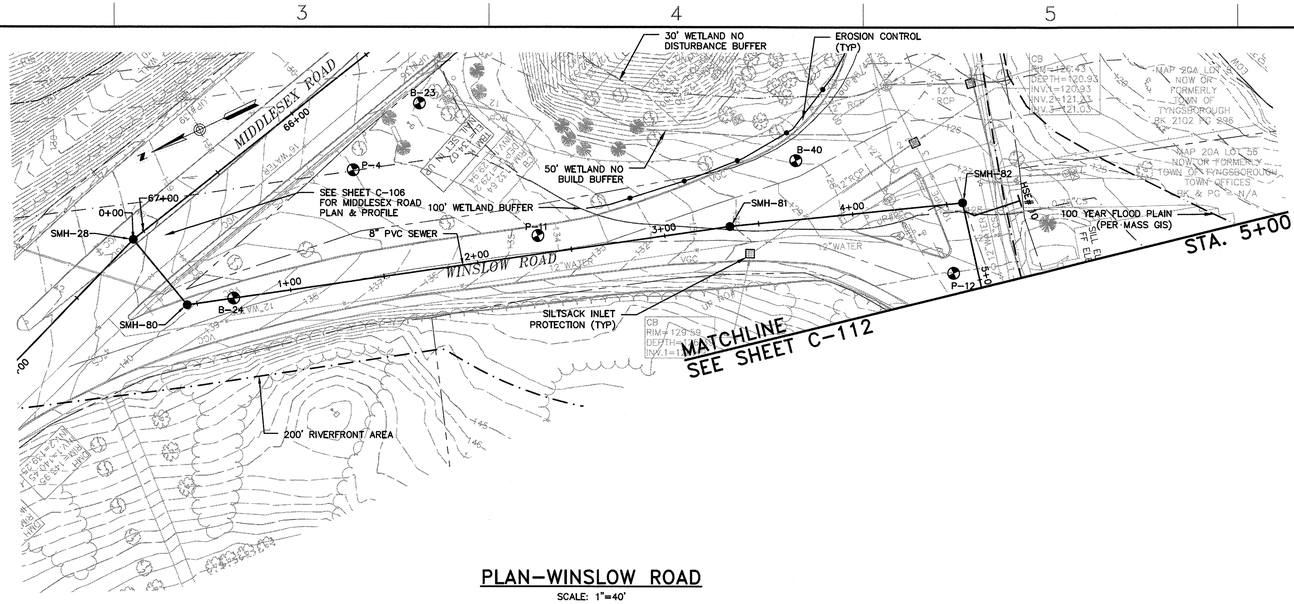
JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 13 OF 49

C-110

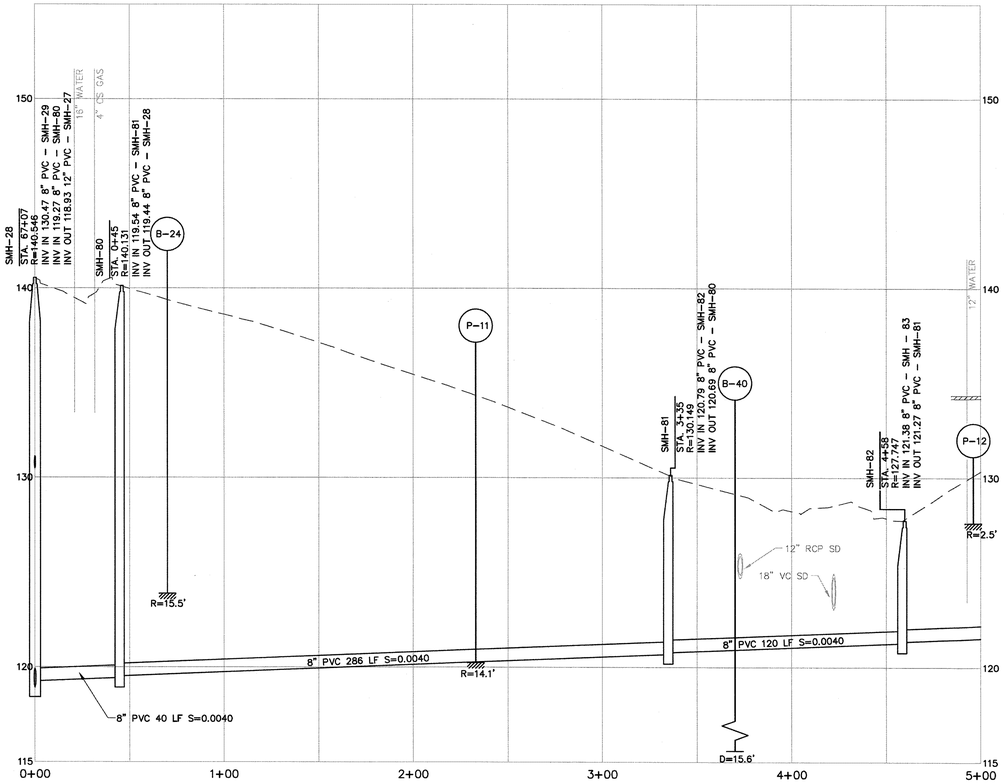
\\wc\shared\Projects\227919 Tyngsborough MA -Ph I Flint Pond Sewer Design\wip\Mapping & Drawings\Drawings\CIVIL\227919-C-109_C-110.dwg, Sep 14, 2015 - 2:46pm

RESOURCE AREA LEGEND

- FEMA
- EROSION CONTROL
- WETLAND LINE
- WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF–XX
- 100' WETLAND BUFFER
- 50' WETLAND BUFFER (NO BUILD ZONE)
- 30' WETLAND BUFFER (NO DISTURB ZONE)
- 200' RIVERFRONT BANK
- RESTORATION AREA



PLAN–WINSLOW ROAD
SCALE: 1"=40'



PLAN–WINSLOW ROAD
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

40' 0 40' 80'
BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. KOLK
CIVIL
No. 47182
REGISTERED PROFESSIONAL ENGINEER

REV.	DESCRIPTION	DATE
DESIGNED BY: JT	CHECKED BY: JT/JK	
DRAWN BY: BM/KCS	227919-C-111.C-113.DWG	

WINSLOW ROAD PLAN & PROFILE STA 0+00 TO 5+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

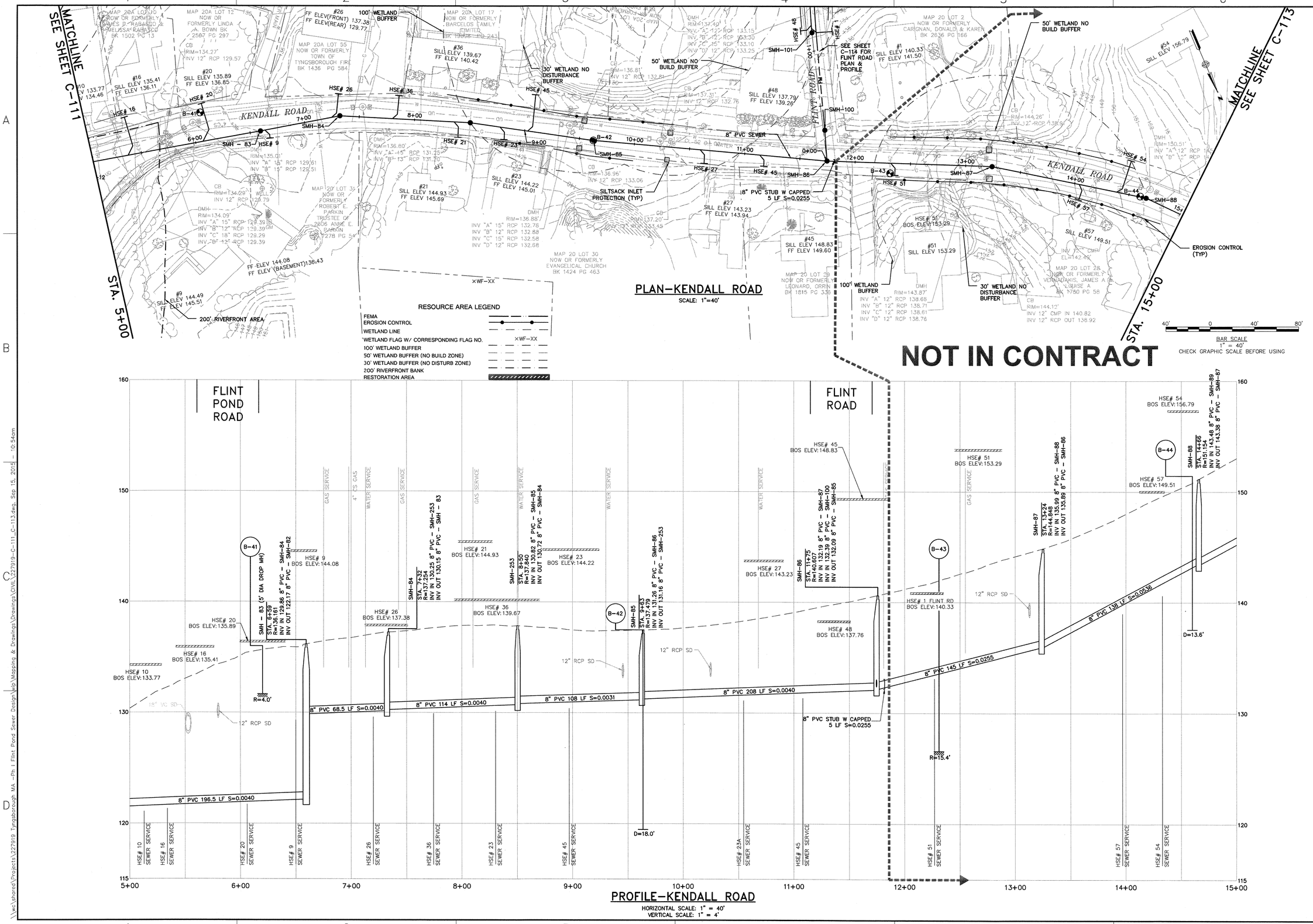
PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 14 OF 49

C-111

\\we\shared\Projects\227919 Tyngsborough MA –Ph I Flint Pond Sewer Design\Wip\Mapping & Drawings\Drawings\CIVIL\227919–C–111_C–113.dwg, Sep 14, 2015 – 2:47pm

22x34 SHEET
1:1



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COMMONWEALTH OF MASSACHUSETTS
JACOB C. HOOL
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE
	DESIGNED BY: JT	CHECKED BY: JT/JK
	DRAWN BY: BM/KCS	22791F-C-111_C-113.DWG

KENDALL ROAD PLAN & PROFILE 1
STA 5+00 TO 15+00

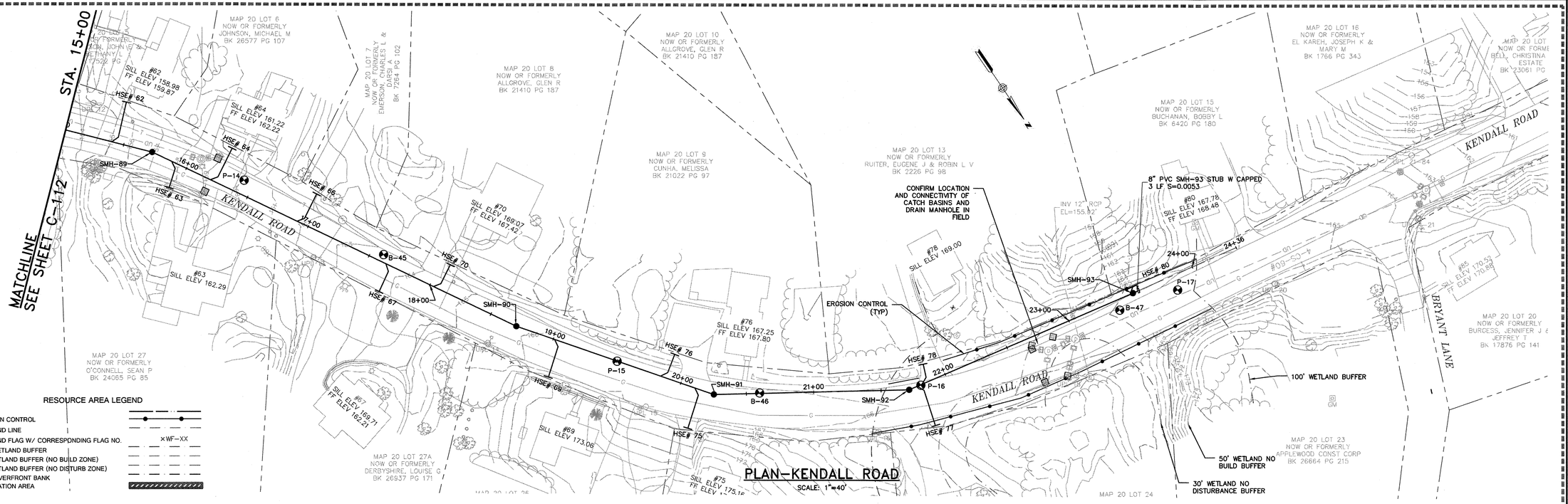
TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

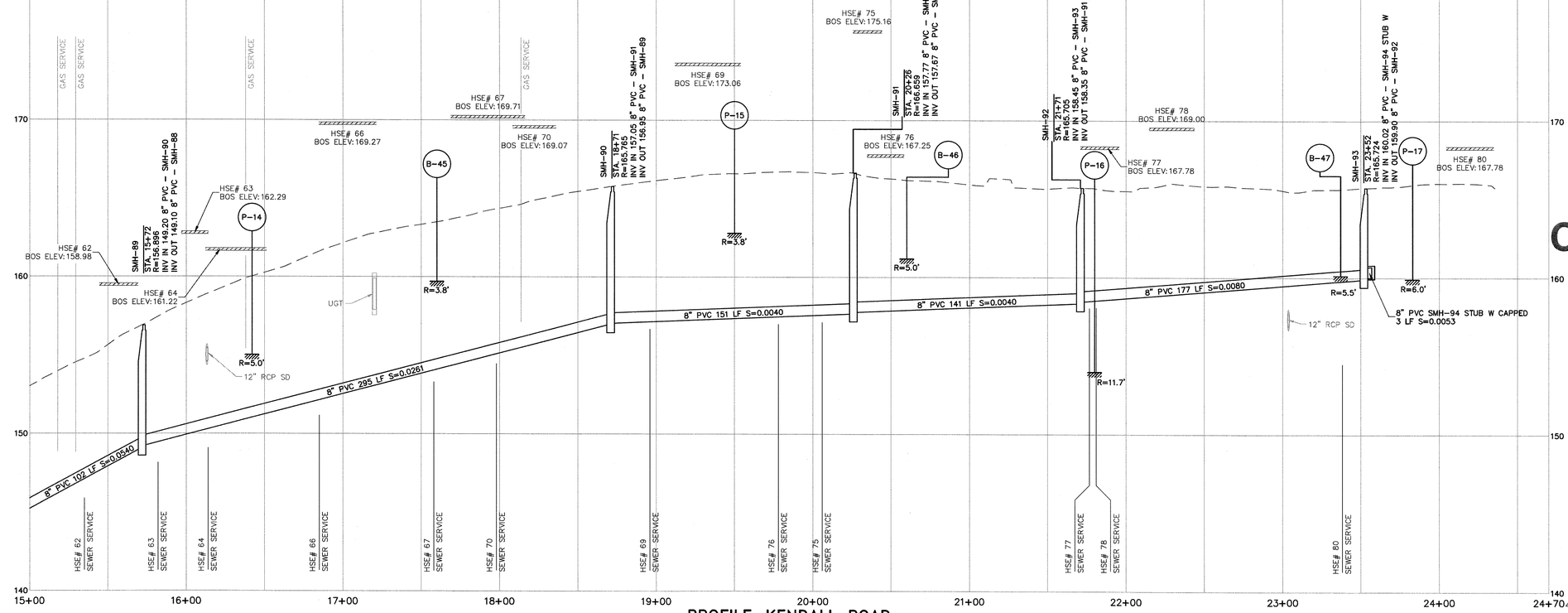
JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 15 OF 49

C-112

I:\we\shared\Projects\227919 Tyngsborough MA -Ph I Flint Pond Sewer Design\Wp\Mapping & Drawings\Drawings\CIVIL\227919-C-111_C-113.dwg, Sep 15, 2015 - 10:54am



PLAN–KENDALL ROAD
SCALE: 1"=40'



PROFILE–KENDALL ROAD
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

NOT IN CONTRACT

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. FRENCH
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

DESIGNED BY: JT
DRAWN BY: BM/KCS
CHECKED BY: JT/JK
227919-C-111_C-113.DWG

KENDALL ROAD PLAN & PROFILE 2
STA 15+00 TP 25+00

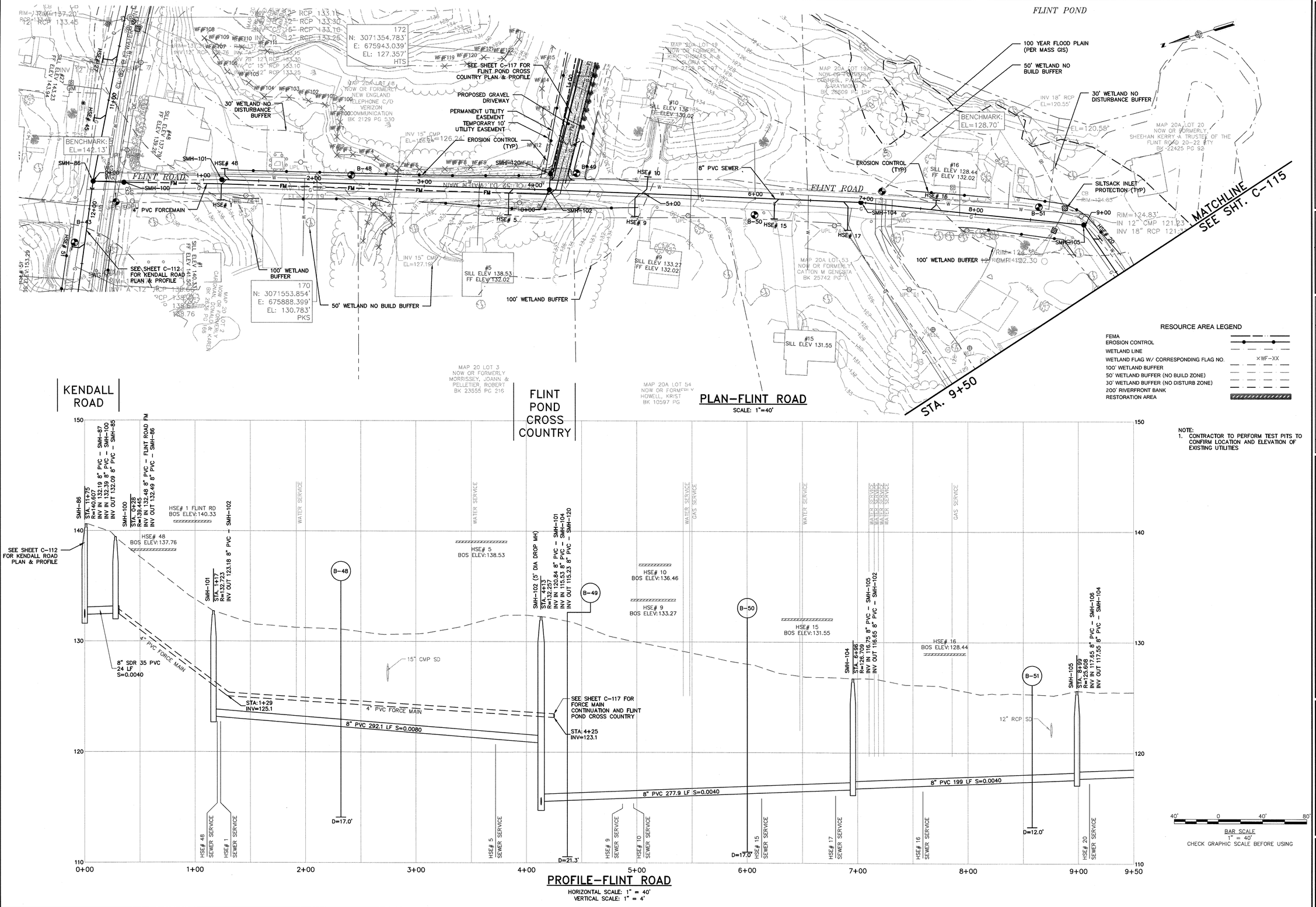
TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 16 OF 49

C-113

\\ws\shared\Projects\227919 Tyngsborough MA –Ph I Flint Pond Sewer Design\Wip\Mapping & Drawings\Drawings\CIVIL\227919-C-111_C-113.dwg, Sep 15, 2015 - 10:48am



NOTE:
1. CONTRACTOR TO PERFORM TEST PITS TO CONFIRM LOCATION AND ELEVATION OF EXISTING UTILITIES

PROFILE-FLINT ROAD
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

40' 0 40' 80'
BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. TROTZ, P.E.
PROFESSIONAL ENGINEER
NO. 47162
REGISTERED

REV	DESCRIPTION	DATE

DESIGNED BY: JT
DRAWN BY: BM/KCS
CHECKED BY: JT/JK
227919-C-114_C-115.DWG

FLINT ROAD PLAN & PROFILE 1
STA 0+00 TO 9+50

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

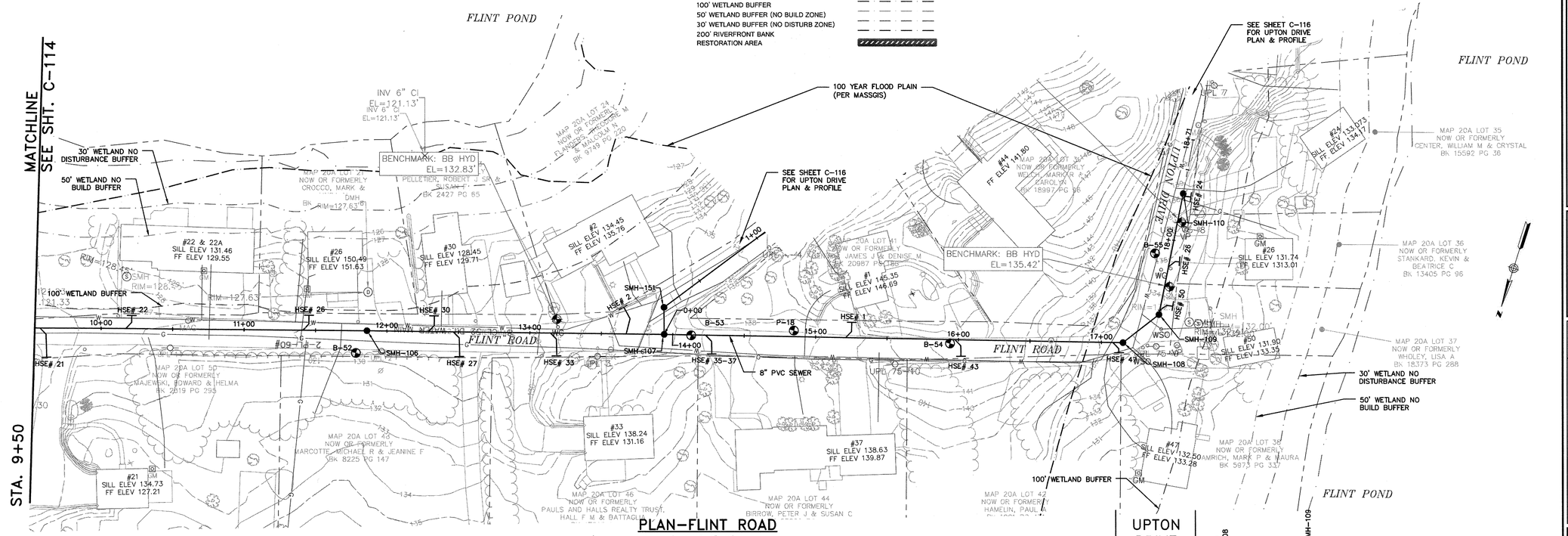
JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 17 OF 49

C-114

\\wc\shared\Projects\227919 Tyngsborough MA -Ph I Flint Pond Sewer Design\Wip\Mapping & Drawings\Drawings\CIVIL\227919-C-114_C-115.dwg, Sep 14, 2015 - 2:49pm

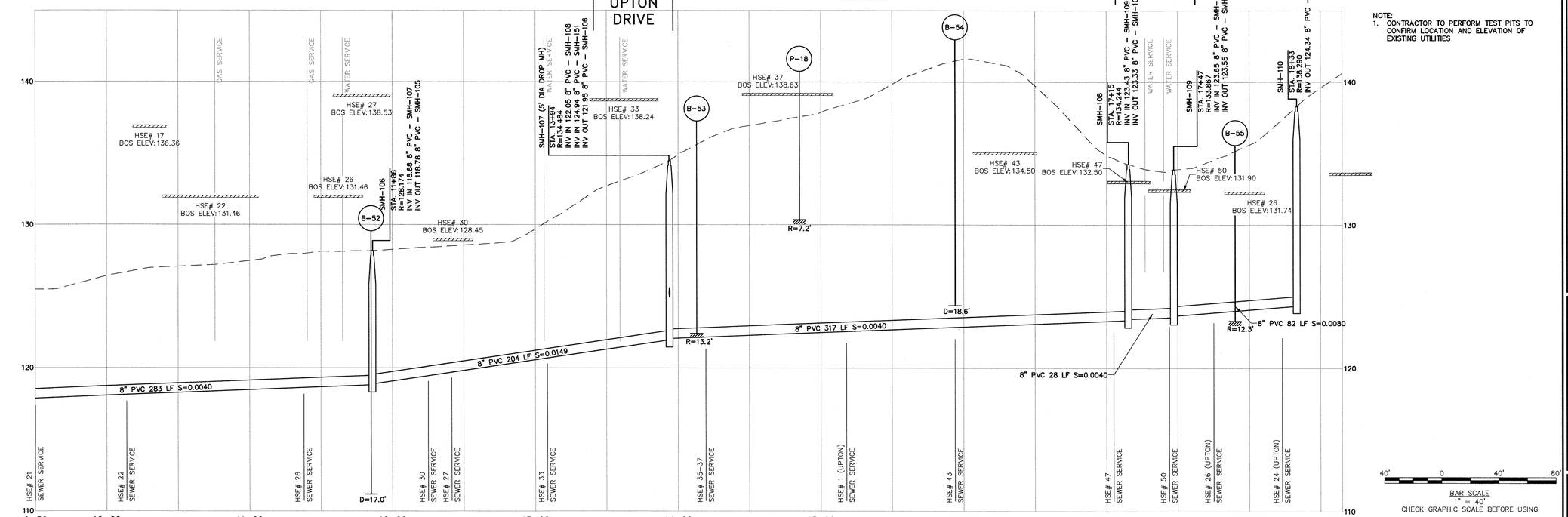
RESOURCE AREA LEGEND

FEMA
EROSION CONTROL
WETLAND LINE
WETLAND FLAG W/ CORRESPONDING FLAG NO. XWF-XX
100' WETLAND BUFFER
50' WETLAND BUFFER (NO BUILD ZONE)
30' WETLAND BUFFER (NO DISTURB ZONE)
200' RIVERFRONT BANK
RESTORATION AREA



PLAN–FLINT ROAD

SCALE: 1"=40'



PROFILE–FLINT ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

NOTE:
1. CONTRACTOR TO PERFORM TEST PITS TO CONFIRM LOCATION AND ELEVATION OF EXISTING UTILITIES

40' 0 40' 80'
BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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JACOB C. HOOLE
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

DESIGNED BY: JT | CHECKED BY: JT/JK
DRAWN BY: BM/KCS | 227919-C-114_C-115.DWG

FLINT ROAD PLAN & PROFILE 2 STA 9+50 TO 18+65

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 18 OF 49

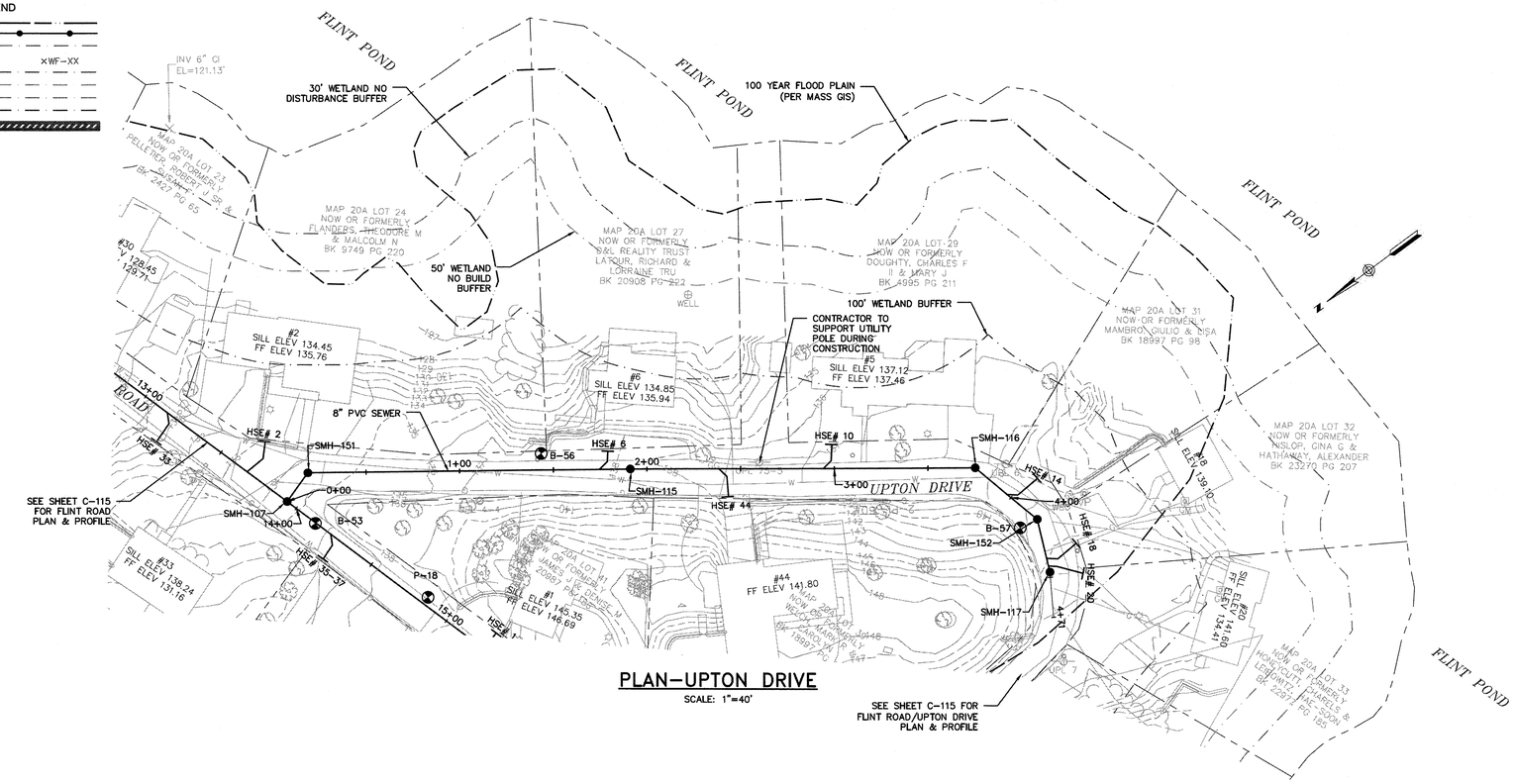
C-115

\\wchared\Projects\227919 Tyngsborough MA –Ph I Flint Pond Sewer Design\Wip Mapping & Drawings\Drawings\CIVIL\227919-C-114_C-115.dwg, Sep 14, 2015 – 2:49pm

22x34 SHEET
1:1

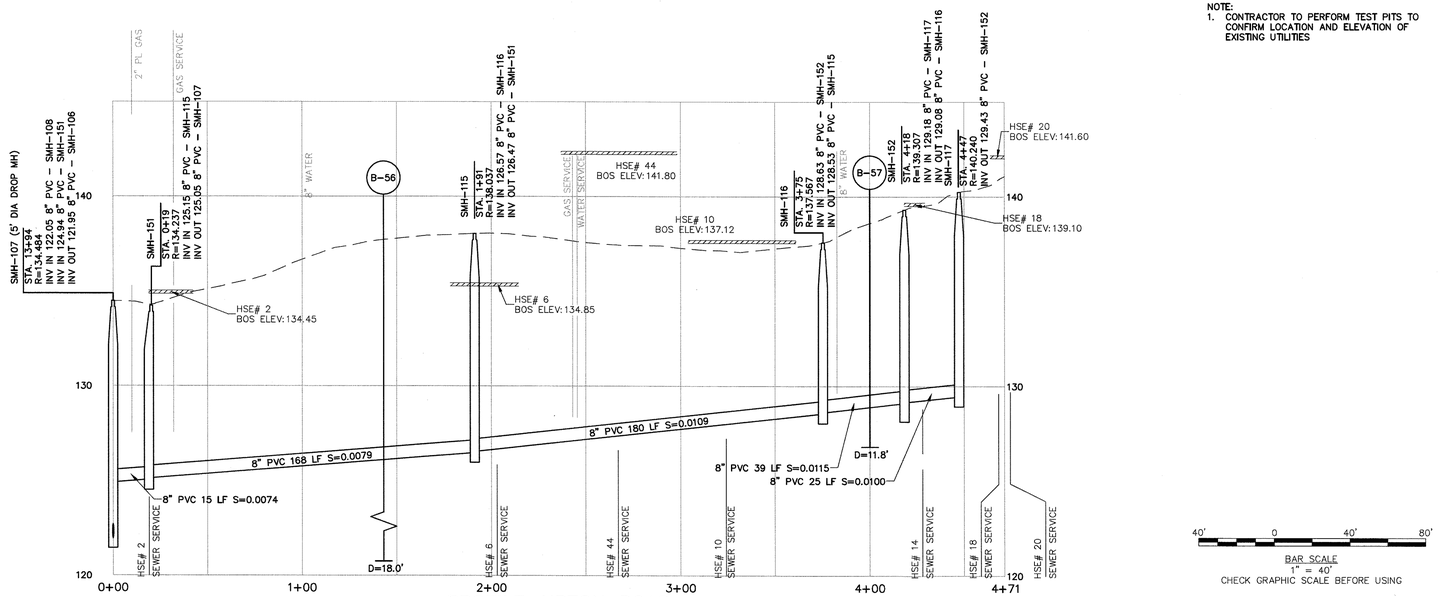
RESOURCE AREA LEGEND

FEMA
EROSION CONTROL
WETLAND LINE
WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF-XX
100' WETLAND BUFFER
50' WETLAND BUFFER (NO BUILD ZONE)
30' WETLAND BUFFER (NO DISTURB ZONE)
200' RIVERFRONT BANK
RESTORATION AREA



PLAN-UPTON DRIVE

SCALE: 1"=40'



PROFILE-UPTON ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

NOTE:
1. CONTRACTOR TO PERFORM TEST PITS TO CONFIRM LOCATION AND ELEVATION OF EXISTING UTILITIES

40' 0 40' 80'
BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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JACOB C. HOOL
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE
DESIGNED BY: JT	CHECKED BY: JT/JK	
DRAWN BY: BM/KCS	227919-C-116.DWG	

UPTON DRIVE PLAN & PROFILE STA 0+00 TO 5+00 FLINT POND RD CROSS COUNTRY STA 0+00 TO 1+25

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

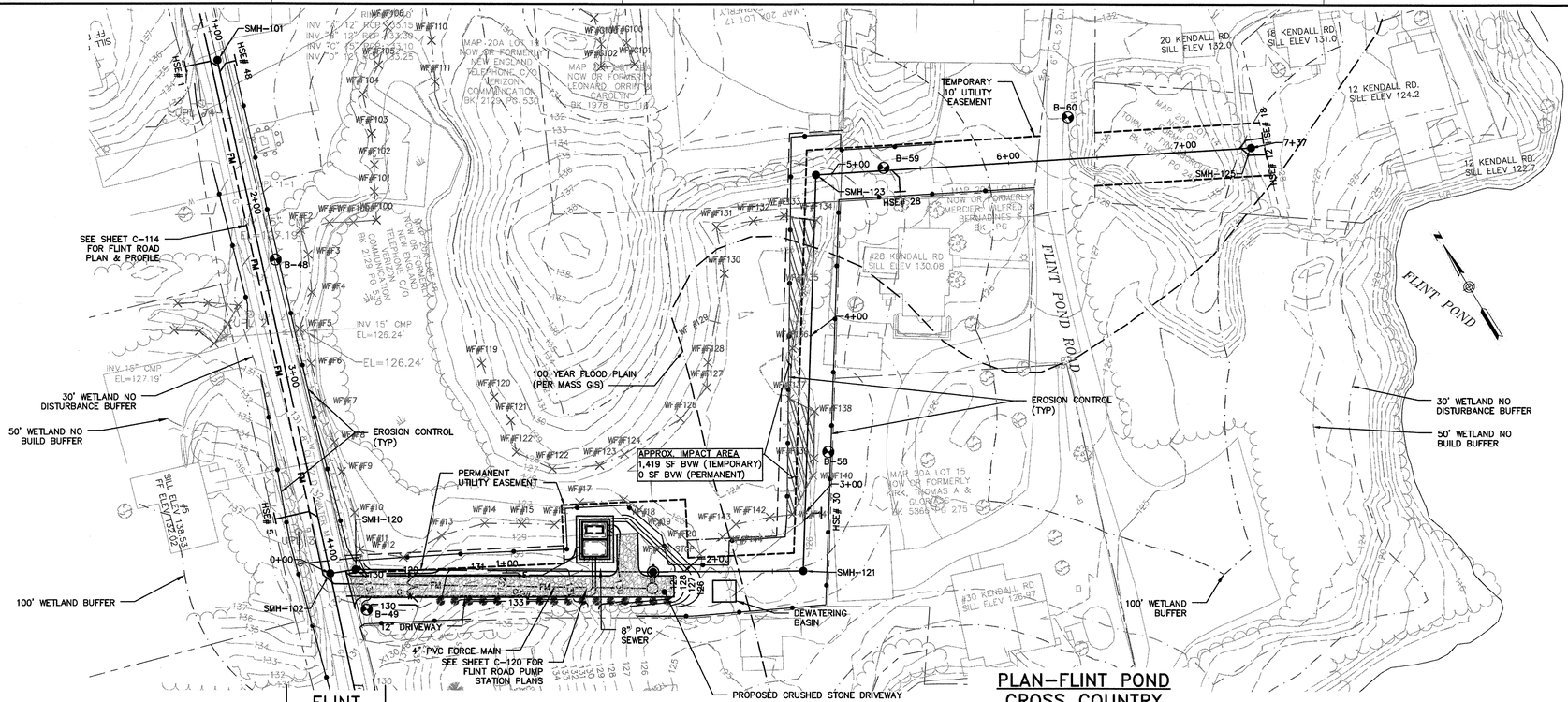
PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 19 OF 49

C-116

\\we\shared\Projects\227919 Tyngsborough MA -Ph I Flint Pond Sewer Design\Wip\Mapping & Drawings\Drawings\CIVIL\227919-C-116.dwg, Sep 14, 2015 - 2:50pm

22x34 SHEET
1:1

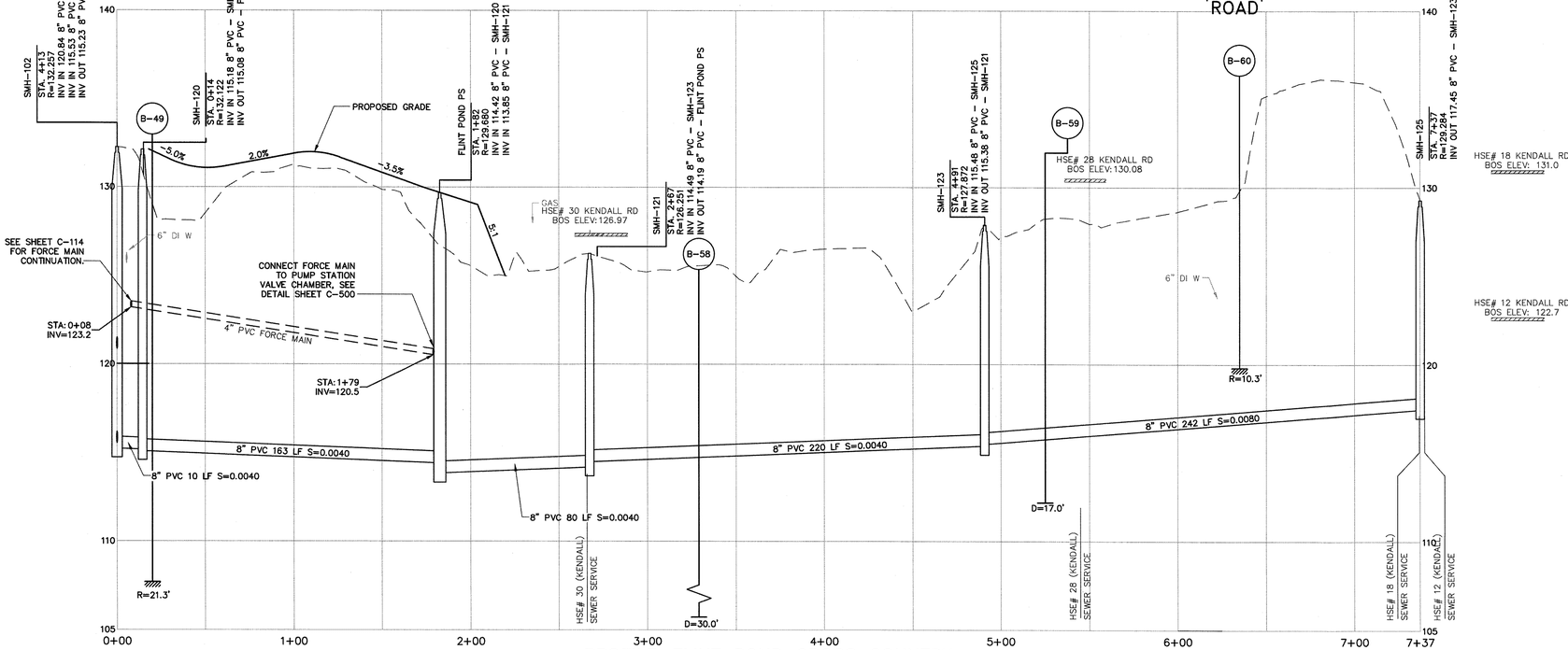


PLAN–FLINT POND CROSS COUNTRY

SCALE: 1"=40'

RESOURCE AREA LEGEND

- FEMA
- EROSION CONTROL
- WETLAND LINE
- WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF–XX
- 100' WETLAND BUFFER
- 50' WETLAND BUFFER (NO BUILD ZONE)
- 30' WETLAND BUFFER (NO DISTURB ZONE)
- 200' RIVERFRONT BANK
- RESTORATION AREA



PROFILE–FLINT POND CROSS COUNTRY

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

NOTE:
1. REFER TO WETLAND REPLICATION DETAIL AND PLANTING SCHEDULE.

BAR SCALE
1" = 40'
40' 0 40' 80'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. TOMA
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

DESIGNED BY: JT
DRAWN BY: BM/KCS
CHECKED BY: JT/JK
227919-C-117.DWG

FLINT POND CROSS COUNTRY PLAN & PROFILE STA 0+00 TO 5+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

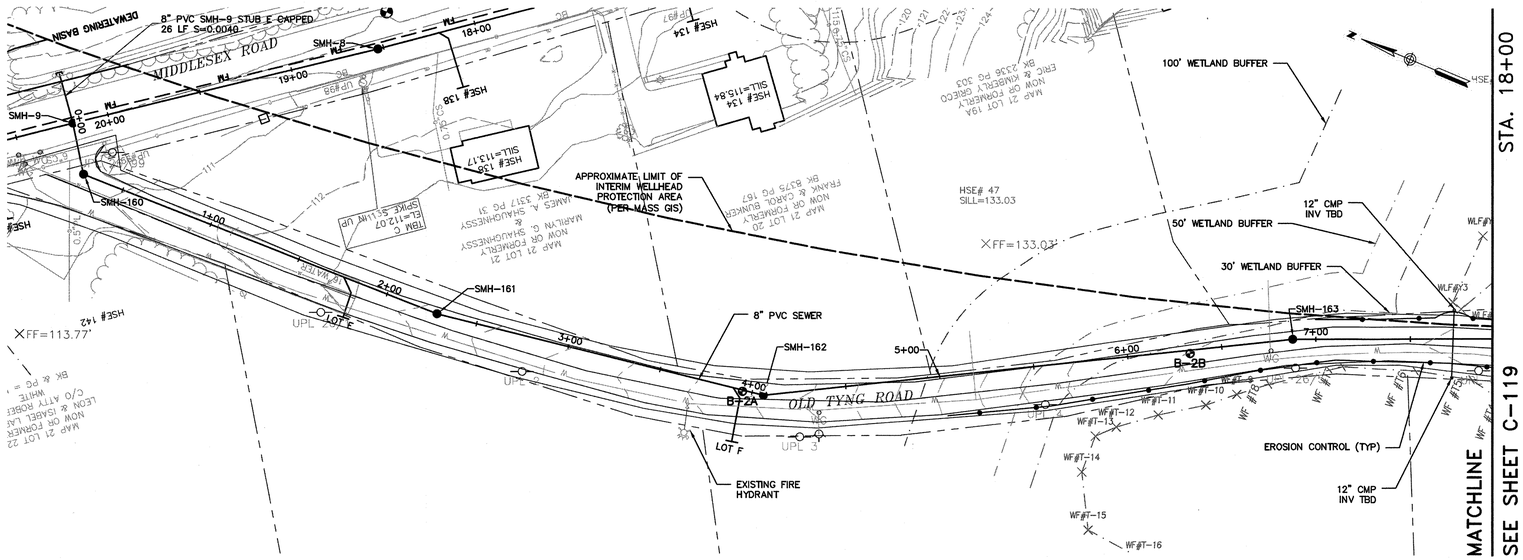
JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 20 OF 49

C-117

\\we\shared\Projects\227919 Tyngsborough MA – Ph 1 Flint Pond Sewer Design\Wip\Mapping & Drawings\Civil\227919-C-117.dwg, Sep 15, 2015 – 10:51am

NOTES:

1. DRAWING BASED ON SURVEY PER GENERAL NOTES, ROUTE 3A WATER AND SEWER EXTENSION PROJECT MAPLE RIDGE AND MERRIMACK LANDING, TYNGSBOROUGH, MA DATED MAY 2004 BY TIGHE & BOND CONSULTING ENGINEERS, AND PLAN OF LAND IN TYNGSBOROUGH, MASSACHUSETTS, 50 WESTFORD ROAD DATED FEBRUARY 14, 2015 BY LAND ENGINEERING & ENVIRONMENTAL SERVICES, INC.
2. NOTES INDICATED ON BACKGROUND DRAWING ARE NOT FOR CONSTRUCTION PURPOSES.

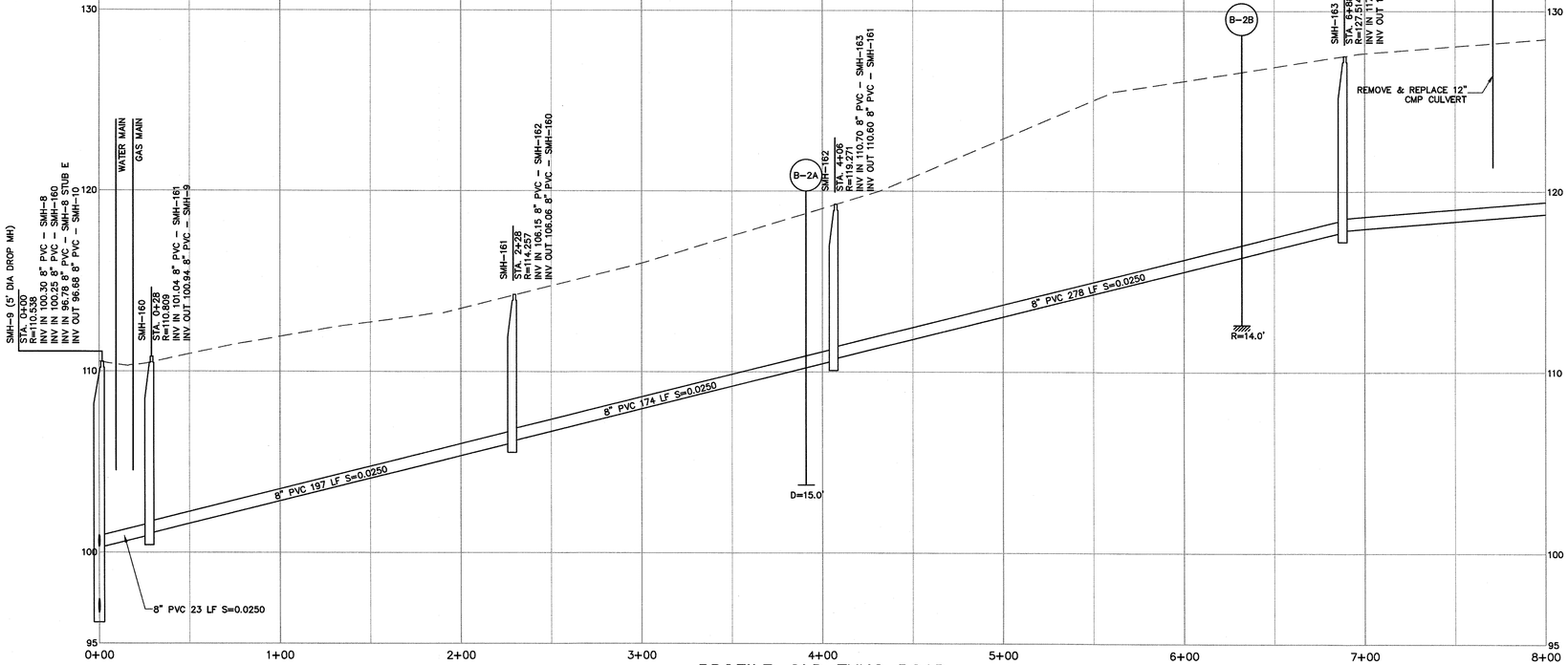


PLAN–OLD TYNG ROAD

SCALE: 1"=40'

RESOURCE AREA LEGEND

- FEMA
- EROSION CONTROL
- WETLAND LINE
- WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF–XX
- 100' WETLAND BUFFER
- 50' WETLAND BUFFER (NO BUILD ZONE)
- 30' WETLAND BUFFER (NO DISTURB ZONE)
- 200' RIVERFRONT BANK
- RESTORATION AREA



PROFILE–OLD TYNG ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

WOODARD & CURRAN
980 Washington Street, Suite 325
Dedham, Massachusetts 02026
800.446.5518 | www.woodardcurran.com

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. TROTA, JR.
NO. 47162
REGISTERED PROFESSIONAL ENGINEER
9/10/15

REV	DESCRIPTION	DATE
	DESIGNED BY: JT	CHECKED BY: KMC
	DRAWN BY: KCS	227919-C-118.DWG

OLD TYNG ROAD PLAN AND PROFILE STA. 0+00 TO STA. 8+00

TOWN OF TYNGSBOROUGH, MASSACHUSETTS SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 21 OF 49

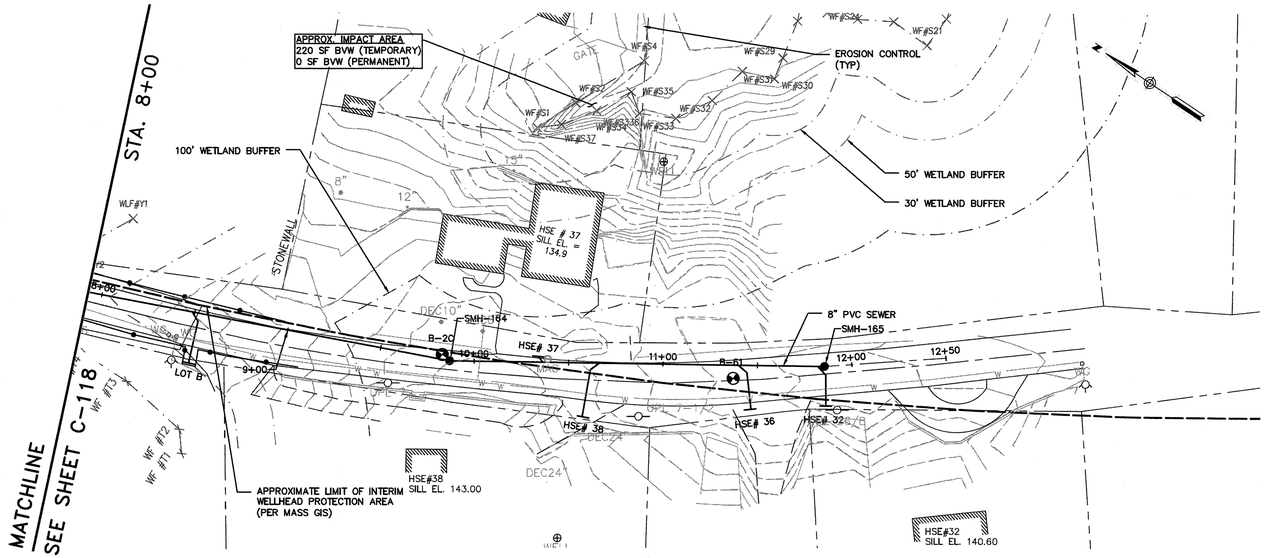
C-118

\\wt\shared\Projects\227919 tyngsborough ma –ph 1 flint pond sewer design\dp\mapping & drawings\Drawings\CIVIL\227919–C–118.dwg, Sep 17, 2015 – 11:54am

22x34 SHEET
1:1

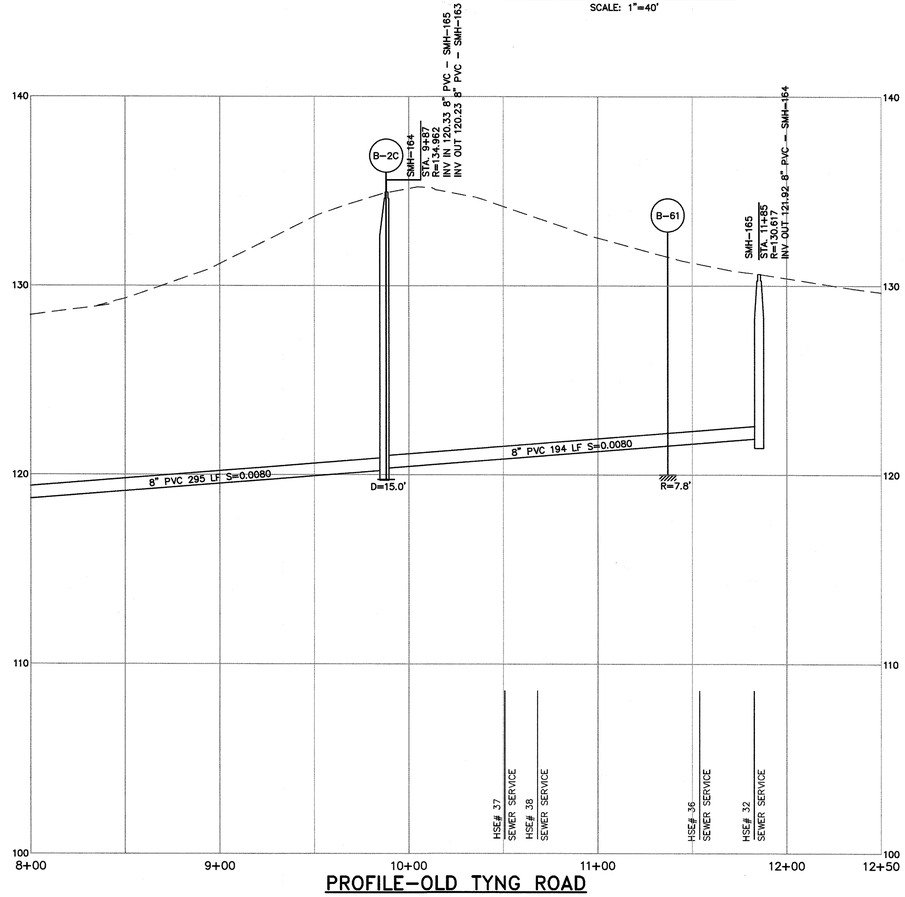
RESOURCE AREA LEGEND

- FEMA
- EROSION CONTROL
- WETLAND LINE
- WETLAND FLAG W/ CORRESPONDING FLAG NO. ×WF-XX
- 100' WETLAND BUFFER
- 50' WETLAND BUFFER (NO BUILD ZONE)
- 30' WETLAND BUFFER (NO DISTURB ZONE)
- 200' RIVERFRONT BANK
- RESTORATION AREA



PLAN-OLD TYNG ROAD

SCALE: 1"=40'



PROFILE-OLD TYNG ROAD

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

40' 0 40' 80'
BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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COMMONWEALTH OF MASSACHUSETTS
JACOB C. TRODL
CIVIL
NO. 47162
REGISTERED PROFESSIONAL ENGINEER
4/7/15

REV	DESCRIPTION	DATE

DESIGNED BY: JT
DRAWN BY: BM/KCS
CHECKED BY: JT/JK
227919-C-119.DWG

OLD TYNG ROAD PLAN & PROFILE
STA 8+00 TO 12+50

TOWN OF TYNGSBOROUGH, MASSACHUSETTS
SEWER COMMISSION

PHASE 1 WEST SEWER PROJECT

JOB NO.: 227919.00
DATE: AUGUST 2015
SCALE: AS NOTED
SHEET: 22 OF 49

C-119

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