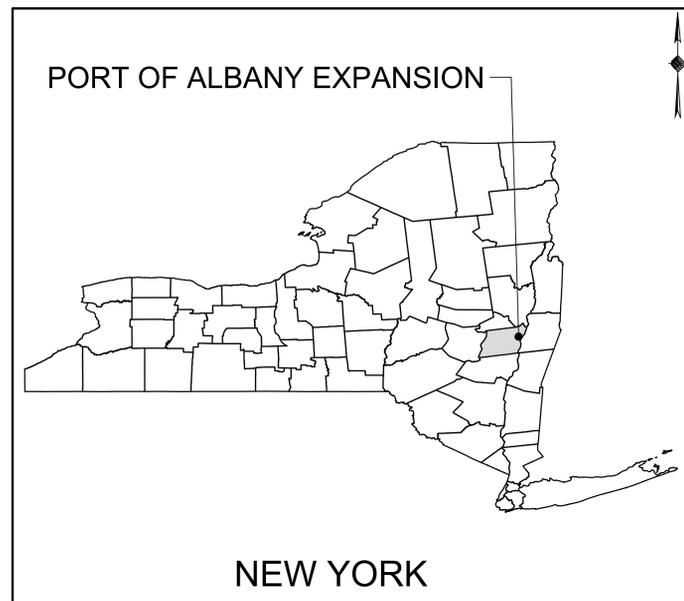


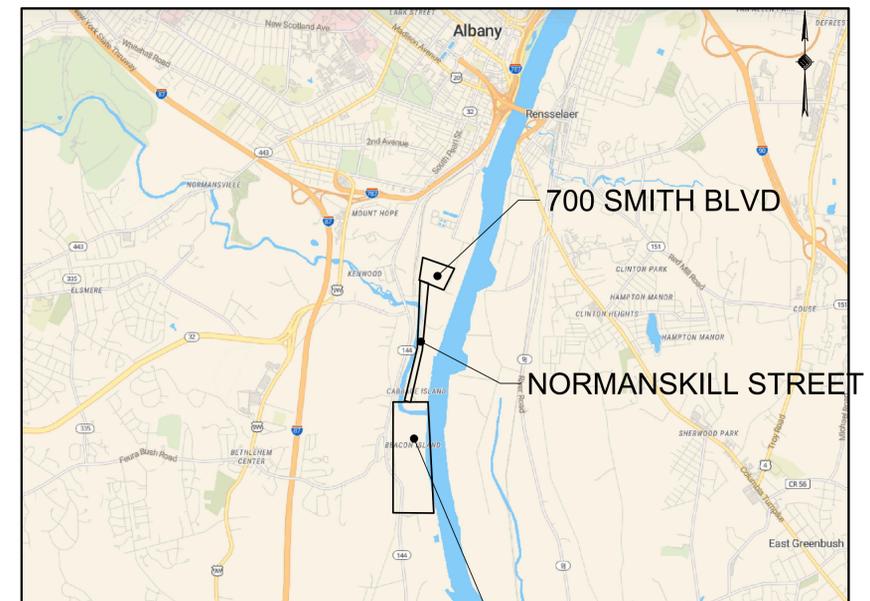
# ALBANY PORT DISTRICT COMMISSION

## NORMANSKILL STREET REHABILITATION

**FINAL DESIGN PLANS**  
**MAY 10, 2022**  
**(REVISED 06-17-2022)**  
 TOWN OF BETHLEHEM /  
 CITY OF ALBANY  
 ALBANY COUNTY  
 NEW YORK



LOCATION MAP



VICINITY MAP

PREPARED FOR:



**PORT OF ALBANY**  
 ALBANY PORT DISTRICT COMMISSION  
 106 SMITH BOULEVARD  
 ALBANY, NEW YORK  
 (518) 463-8763  
 WWW.ALBANY.GOV

PREPARED BY:



MCFARLAND JOHNSON PROJECT # 18641.00

PLANNING BOARD HTE# 21-00100006

SEALED	ADAM J. FROSINO	REVIEW SET
PE_NO	088870	
PE_DATE	MAY 10, 2022 (REVISED 06-17-2022)	

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.





**McFarland Johnson**  
 60 RAILROAD PLACE  
 SUITE 402  
 SARATOGA SPRINGS, NEW YORK 12866  
 P: 518-580-9380 F: 518-580-9383  
 SaratogaROM@mjinc.com

PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
3	06/17/22	NAT. GRID COMMENTS

CLIENT: **ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK  
 PROJECT: **NORMANSKILL ST. REHAB**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05-10-2022
PROJECT	18641.00

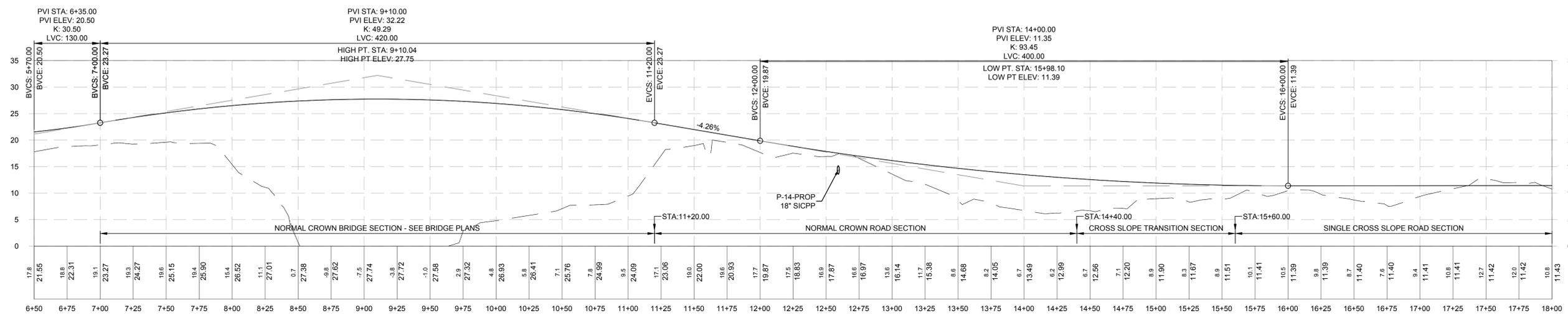
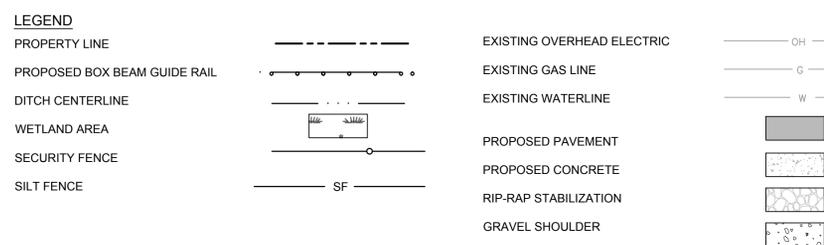
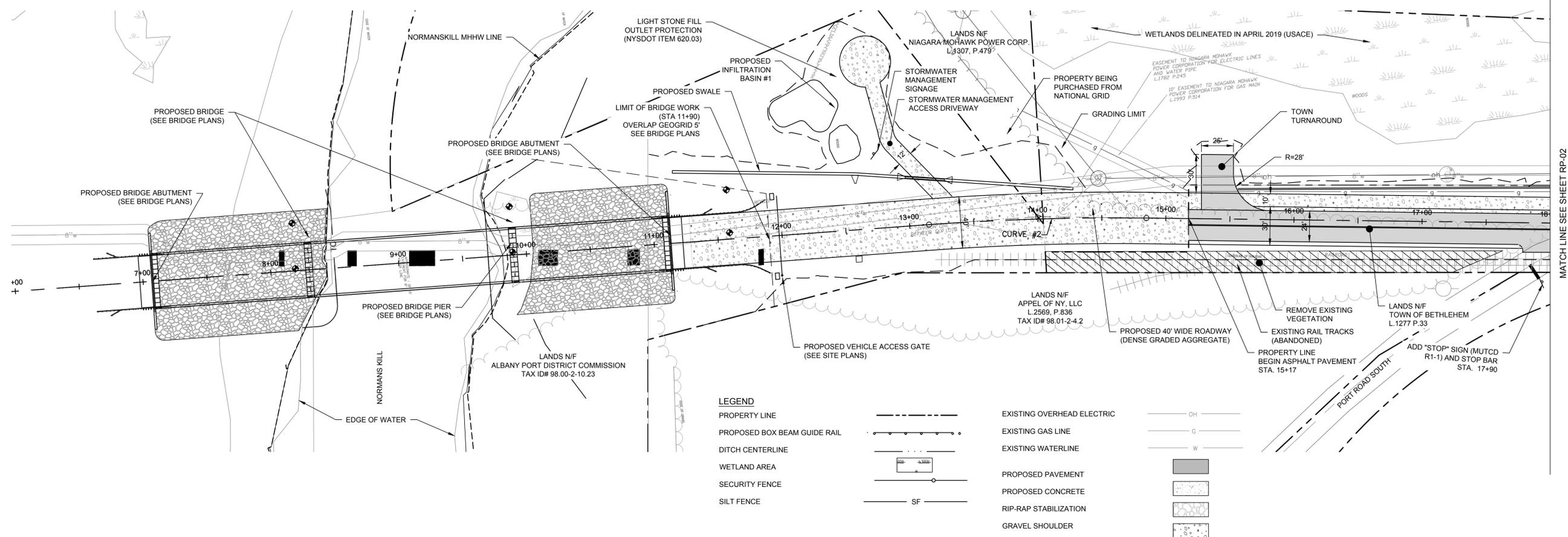


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DRAWING TITLE  
**ROADWAY PLAN AND PROFILE**

DRAWING NUMBER  
**RP-01**

Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #2	2000.0	169.9	N4° 53' 57.33"E	(689669.9, 1376167.7)	(689684.4, 1376336.9)	13+15	14+85



**NEW PORT ROAD NORTH - 1**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'

PLANNING BOARD HTE# 21-00100006



N:\18641.00\ALBANY PORT EXTENSION\ROADWAY\DESIGN\RP-01.DWG



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PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:  
**ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK

PROJECT:  
**NORMANSKILL ST. REHAB**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05-10-2022
PROJECT	18641.00

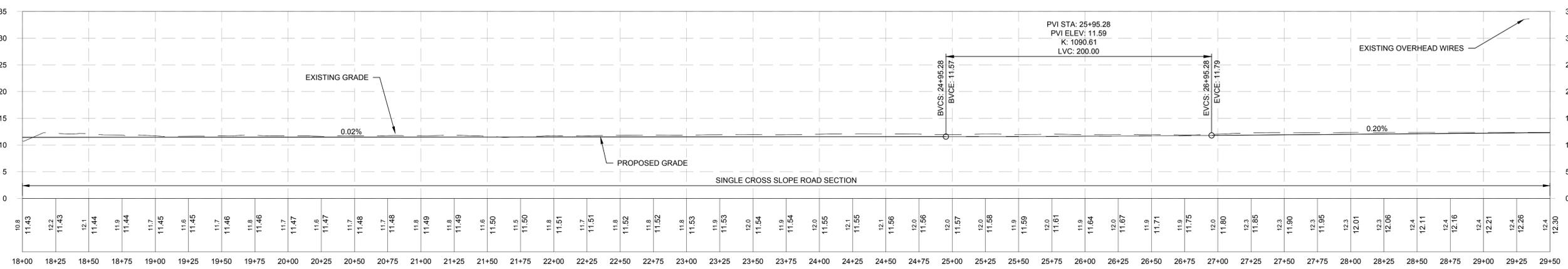
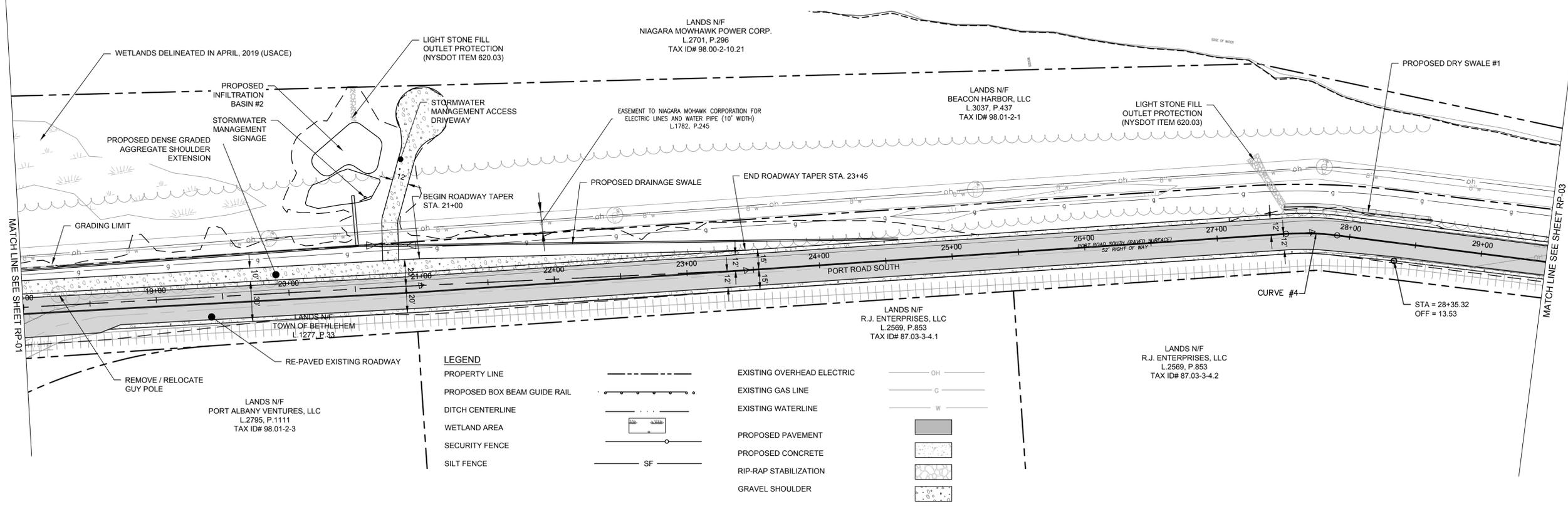


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DRAWING TITLE  
**ROADWAY PLAN AND PROFILE**

DRAWING NUMBER  
**RP-02**

Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #4	200.0	38.5	N12° 09' 23.09"E	(689843.3, 1377594.0)	(689851.4, 1377631.6)	27+52	27+91



NEW PORT ROAD NORTH - 2  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'

PLANNING BOARD HTE# 21-00100006



N:\18641\_02 ALBANY PORT DISTRICT COMMISSION\DRAWINGS\DESIGN\RP-02\RP-02.DWG

PLANNING BOARD HTE# 21-00100006

PORT ROAD EXTENSION CURVE TABLE							
Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #5	200.0	70.6	N7° 02' 59.07"E	(690126.7,1378510.9)	(690135.3,1378580.5)	37+12	37+82
CURVE #6	800.0	121.6	N1° 17' 55.26"E	(690135.3,1378580.5)	(690138.1,1378702.0)	37+82	39+04



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PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:  
**ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK

PROJECT:  
**NORMANSKILL ST. REHAB**

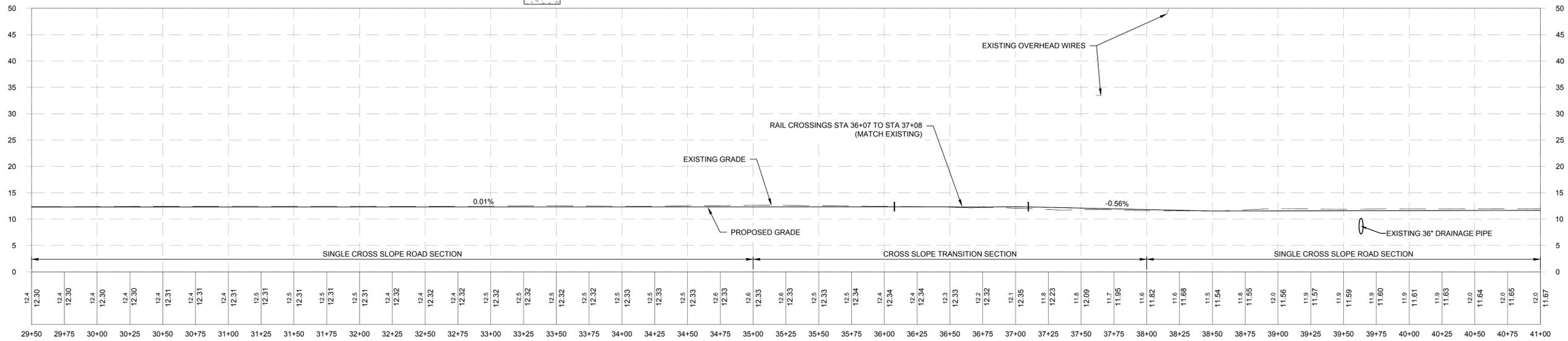
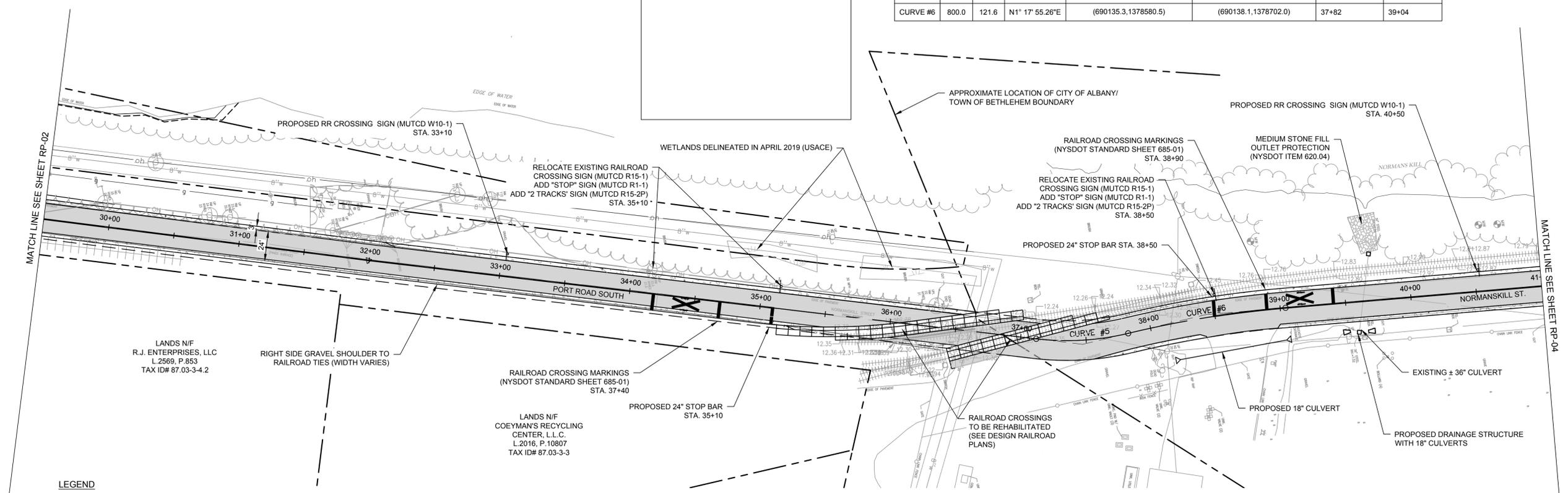
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DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05-10-2022
PROJECT	18641.00



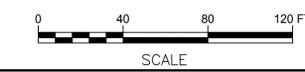
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DRAWING TITLE  
**ROADWAY PLAN AND PROFILE**

DRAWING NUMBER  
**RP-03**



**NEW PORT ROAD NORTH - 3**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



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PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:  
**ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK

PROJECT:  
**NORMANSKILL ST. REHAB**

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SCALE	1"=40'
DATE	05-10-2022
PROJECT	18641.00

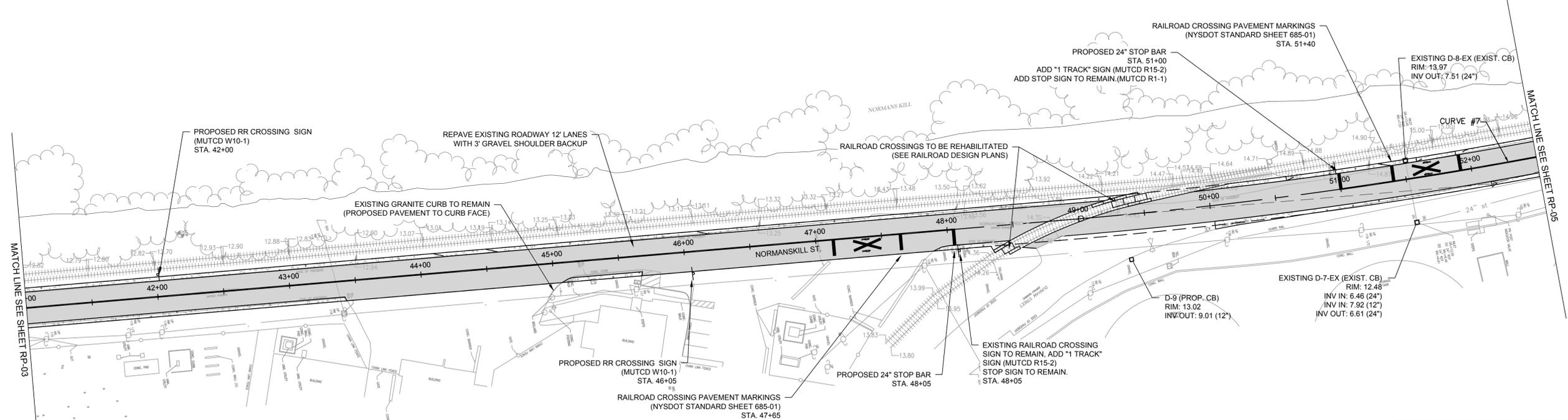


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DRAWING TITLE  
**ROADWAY PLAN AND PROFILE**

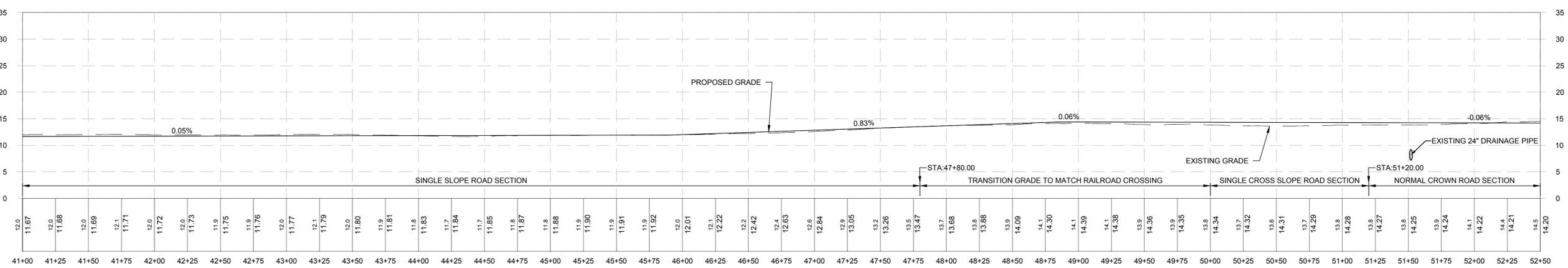
DRAWING NUMBER  
**RP-04**

Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #7	3500.0	625.7	N0° 31' 58.69"E	(690236.4, 1379694.8)	(690242.2, 1380319.7)	49+02	55+27



LEGEND	
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING GAS LINE
---	EXISTING WATERLINE
---	PROPOSED PAVEMENT
---	PROPOSED CONCRETE
---	RIP-RAP STABILIZATION
---	GRAVEL SHOULDER
---	OH
---	G
---	W
---	OH
---	G
---	W
---	OH
---	G
---	W
---	OH
---	G
---	W
---	OH
---	G
---	W

PLANNING BOARD HTE# 21-00100006

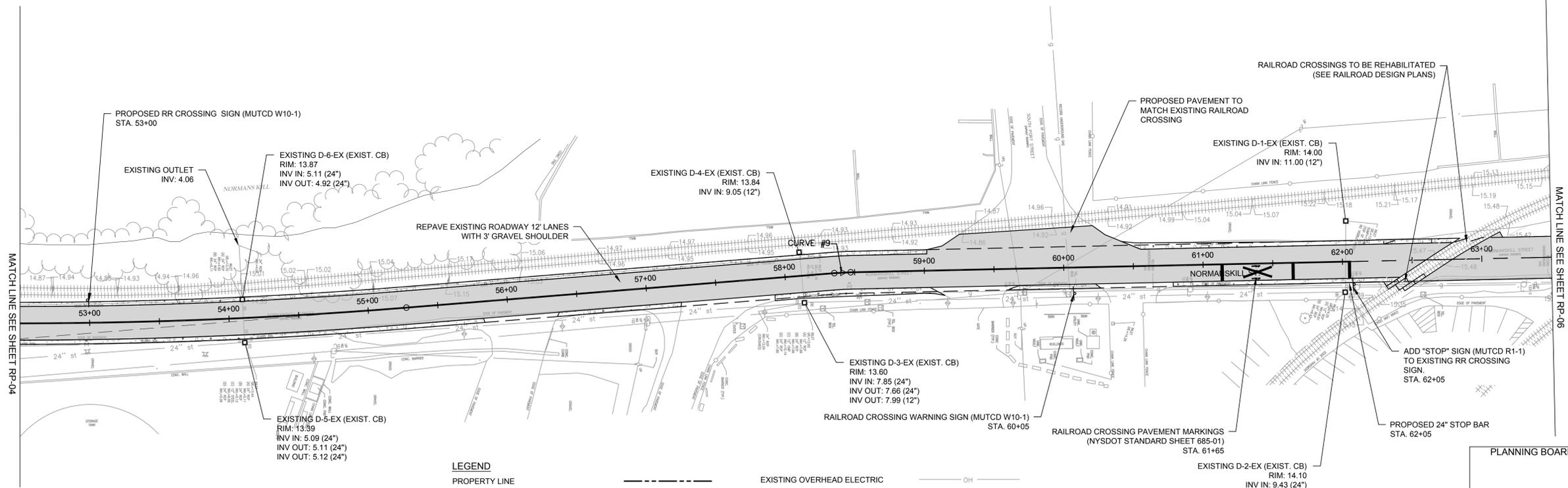


**NEW PORT ROAD NORTH - 4**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'

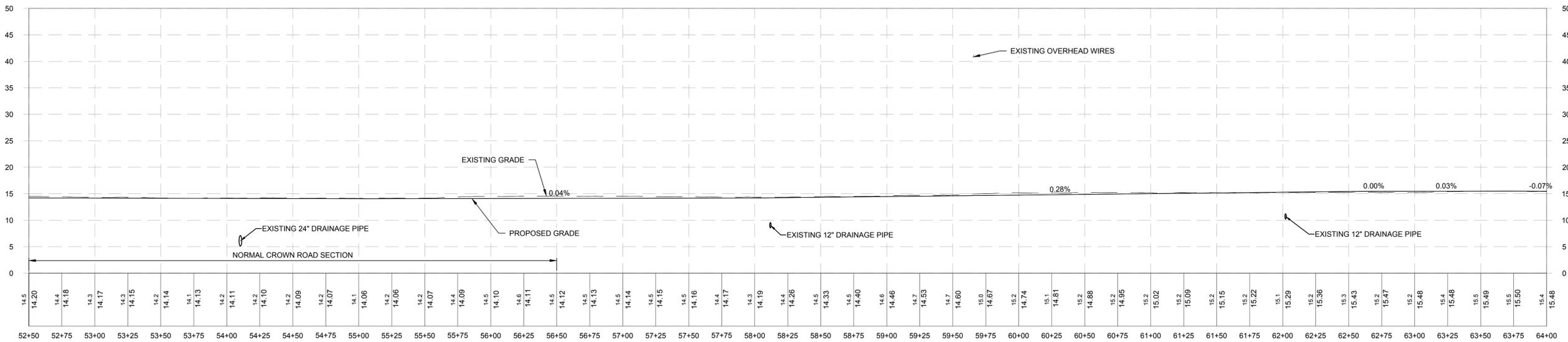


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PORT ROAD EXTENSION CURVE TABLE							
Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #9	200.0	11.7	N2° 54' 29.75"W	(690217.5, 1380626.6)	(690216.9, 1380638.3)	58+35	58+47



LEGEND	
PROPERTY LINE	---
PROPOSED BOX BEAM GUIDE RAIL	—●—●—●—
DITCH CENTERLINE	—○—○—○—
WETLAND AREA	[Wetland Symbol]
SECURITY FENCE	—■—■—■—
SILT FENCE	—SF—
EXISTING OVERHEAD ELECTRIC	—OH—
EXISTING GAS LINE	—G—
EXISTING WATERLINE	—W—
PROPOSED PAVEMENT	[Pavement Symbol]
PROPOSED CONCRETE	[Concrete Symbol]
RIP-RAP STABILIZATION	[Rip-rap Symbol]
GRAVEL SHOULDER	[Gravel Symbol]



NEW PORT ROAD NORTH - 5  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



**McFarland Johnson**  
 60 RAILROAD PLACE  
 SUITE 402  
 SARATOGA SPRINGS, NEW YORK 12866  
 P: 518-580-9380 F: 518-580-9383  
 SaratogaROM@mjinc.com

PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:  
**ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK

PROJECT:  
**NORMANSKILL ST. REHAB**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05-10-2022
PROJECT	18641.00



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DRAWING TITLE  
**ROADWAY PLAN AND PROFILE**

DRAWING NUMBER  
**RP-05**



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**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:  
**ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK

PROJECT:  
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DATE	05-10-2022
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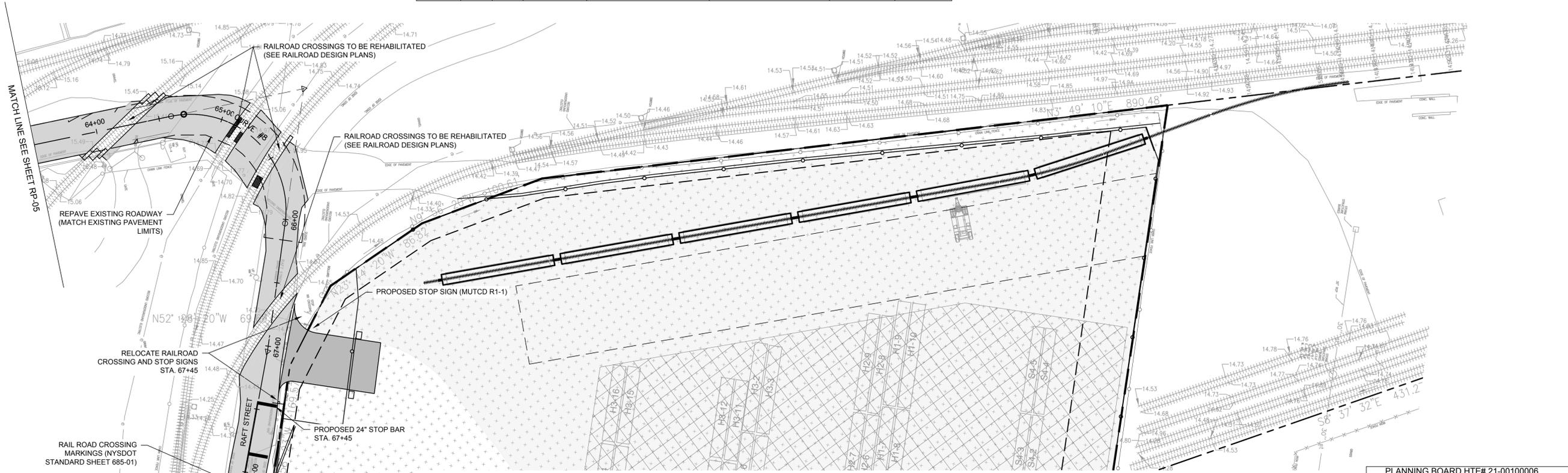


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DRAWING TITLE  
**ROADWAY PLAN AND PROFILE**

DRAWING NUMBER  
**RP-06**

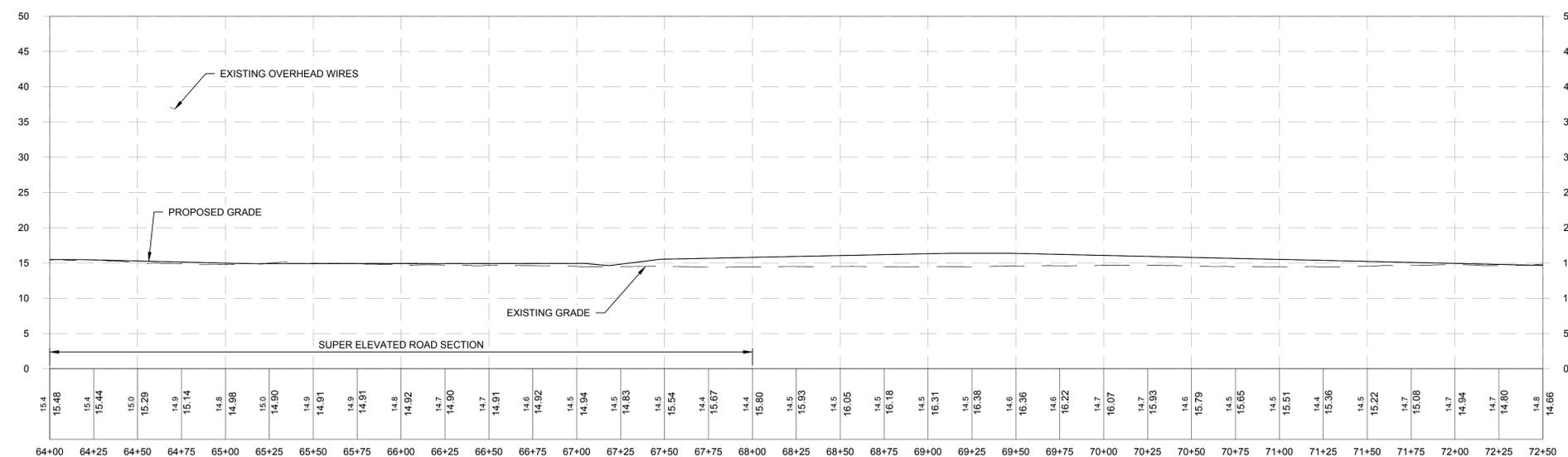
Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #8	75.0	143.5	N53° 34' 17.56"E	(690203.8, 1381250.7)	(690302.4, 1381323.5)	64+60	66+03



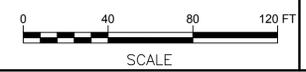
**PROPOSED 700 SMITH BLVD DEVELOPMENT SITE (SEE SITE PLANS)**

LEGEND	
PROPERTY LINE	---
PROPOSED BOX BEAM GUIDE RAIL	—○—○—○—
DITCH CENTERLINE	—+—+—+—+—
WETLAND AREA	[Hatched Pattern]
SECURITY FENCE	—□—□—□—□—
SILT FENCE	—SF—SF—SF—SF—
EXISTING OVERHEAD ELECTRIC	—OH—OH—OH—OH—
EXISTING GAS LINE	—G—G—G—G—
EXISTING WATERLINE	—W—W—W—W—
PROPOSED PAVEMENT	[Stippled Pattern]
PROPOSED CONCRETE	[Cross-hatched Pattern]
RIP-RAP STABILIZATION	[Diagonal Line Pattern]
GRAVEL SHOULDER	[Dotted Pattern]

PLANNING BOARD HTE# 21-00100006



**NEW PORT ROAD NORTH - 6**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



N:\18641\_00\ALBANY PORT DISTRICT COMMISSION\ROADWAY\DESIGN\RP-06.DWG







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NO.	DATE	DESCRIPTION
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2	06/06/22	TOWN COMMENTS
3	06/17/22	NAT. GRID COMMENTS

CLIENT: **ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK  
 PROJECT: **NORMANSKILL ST. REHAB**

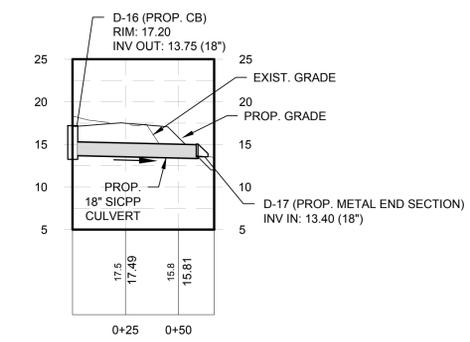
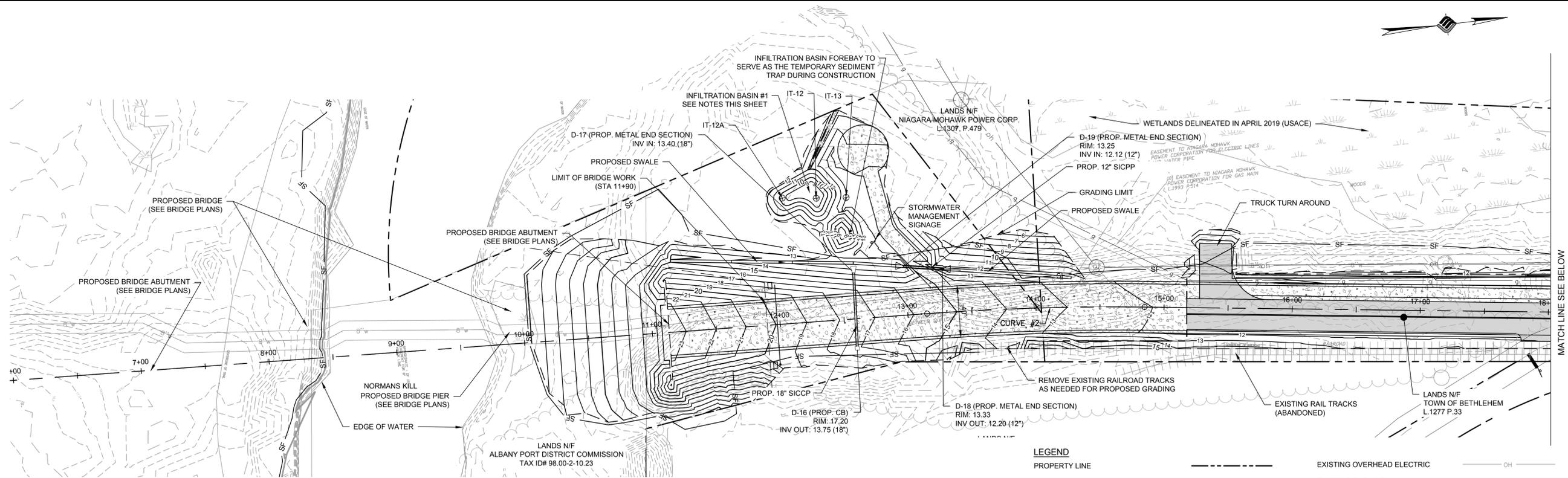
DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
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PROJECT	18641.00



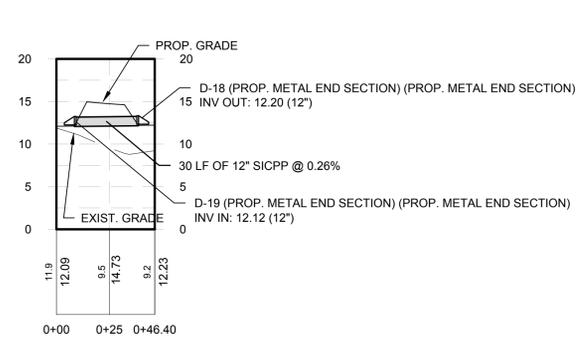
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DRAWING TITLE  
**GRADING, DRAINAGE, EROSION AND SEDIMENT CONTROL**  
 DRAWING NUMBER

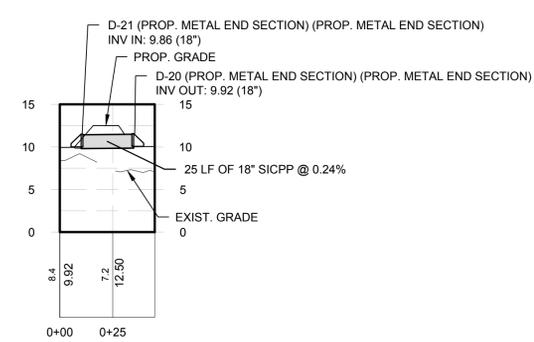
GR-01



D-16 TO D-17  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



D-18 TO D-20  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



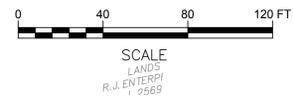
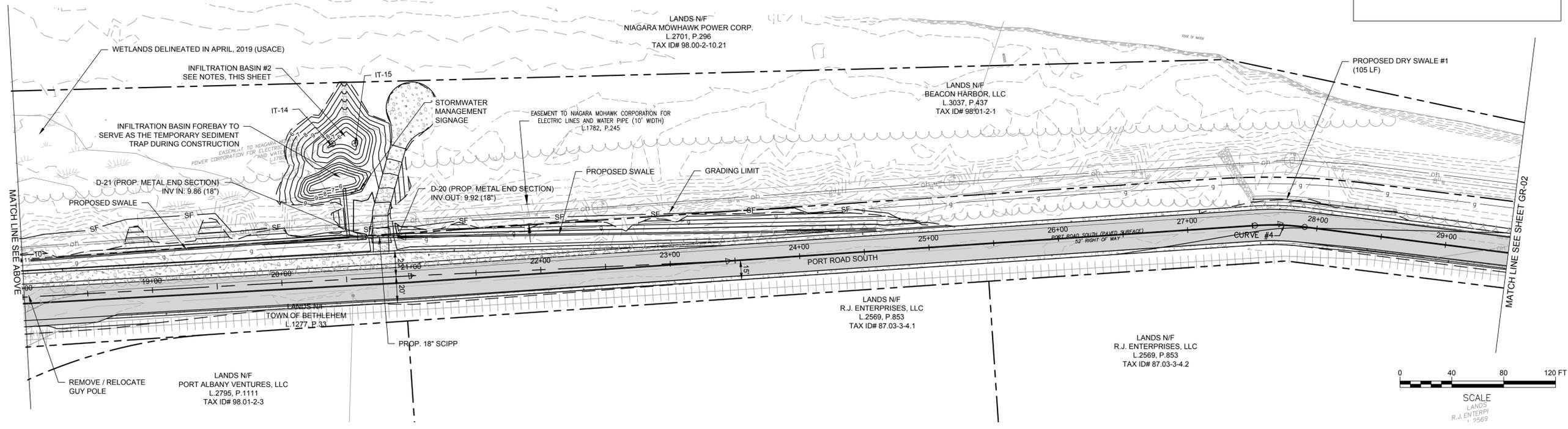
D-20 TO D-21  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'

**LEGEND**

PROPERTY LINE	---	EXISTING OVERHEAD ELECTRIC	OH
PROPOSED BOX BEAM GUIDE RAIL	—●—	EXISTING GAS LINE	G
DITCH CENTERLINE	—+—	EXISTING WATERLINE	W
WETLAND AREA	(Hatched)	PROPOSED PAVEMENT	(Solid Grey)
SECURITY FENCE	—X—	PROPOSED CONCRETE	(Stippled)
SILT FENCE	SF	RIP-RAP WATER EMBANKMENT STABILIZATION	(Rip-Rap Pattern)
CATCH BASIN	□		

- NOTES:**
- UPSTREAM CONSTRUCTION SHALL BE COMPLETED AND STABILIZED BEFORE CONNECTION TO A DOWNSTREAM INFILTRATION FACILITY. A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISHED OVER THE CONTRIBUTING PERVIOUS DRAINAGE AREAS BEFORE RUNOFF CAN BE ACCEPTED INTO THE FACILITY.
  - PROPOSED INFILTRATION BASINS SHALL BE OWNED, OPERATED AND MAINTAINED BY THE PORT OF ALBANY AND BE ACCESSIBLE BY THE TOWN FOR INSPECTION.
  - SEE TABLE ON SHEET GR-04 FOR INFILTRATION TEST INFORMATION.

PLANNING BOARD HTE# 21-00100006





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PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:  
**ALBANY PORT DISTRICT COMMISSION**

ALBANY, NEW YORK

PROJECT:  
**NORMANSKILL ST. REHAB**

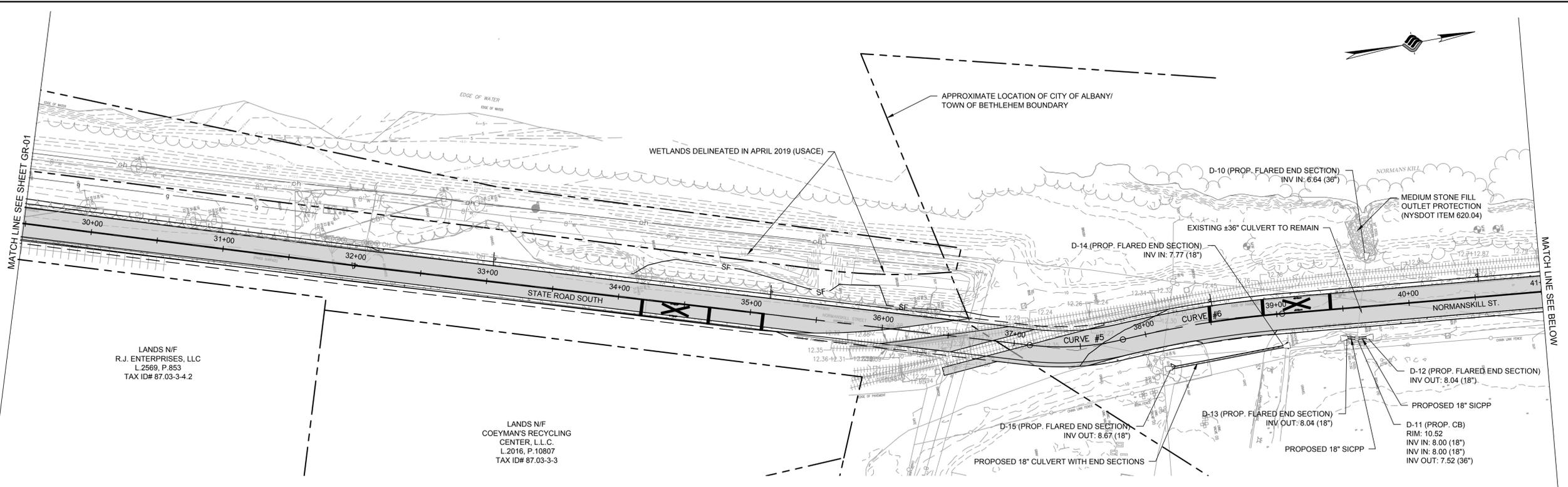
DRAWN	JES
DESIGNED	NSO
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SCALE	1"=40'
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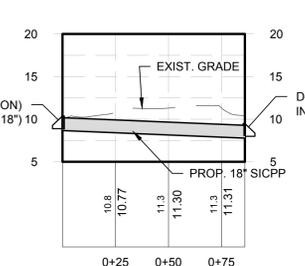
DRAWING TITLE  
**GRADING, DRAINAGE, EROSION AND SEDIMENT CONTROL**

DRAWING NUMBER  
**GR-02**

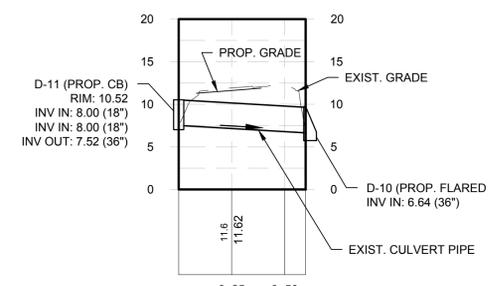


LANDS N/F  
 R.J. ENTERPRISES, LLC  
 L.2569, P.853  
 TAX ID# 87.03-3-4.2

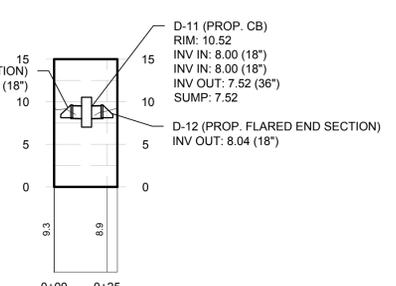
LANDS N/F  
 COEYMAN'S RECYCLING  
 CENTER, L.L.C.  
 L.2016, P.10807  
 TAX ID# 87.03-3-3



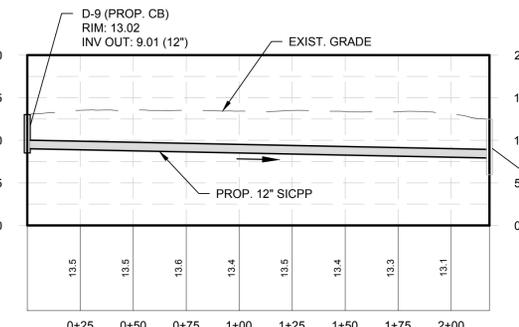
**D-15 TO D-14**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



**D-11 TO D-10**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'

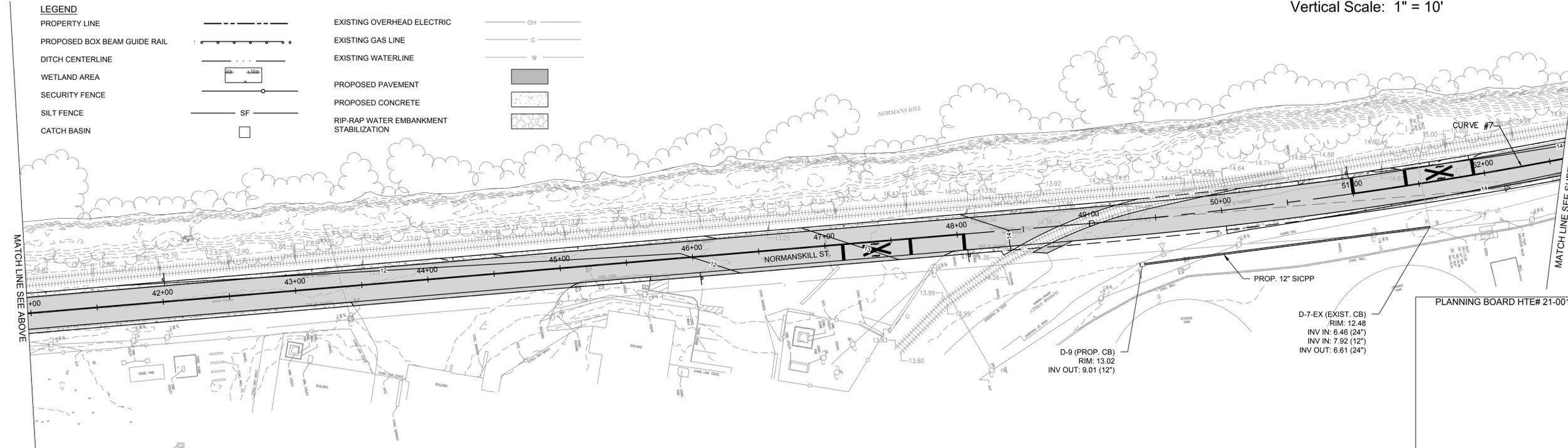


**D-13 TO D-10**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



**D-9 TO D-7-EX**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'

<b>LEGEND</b>			
PROPERTY LINE	---	EXISTING OVERHEAD ELECTRIC	OH
PROPOSED BOX BEAM GUIDE RAIL	—●—	EXISTING GAS LINE	G
DITCH CENTERLINE	---	EXISTING WATERLINE	W
WETLAND AREA	~	PROPOSED PAVEMENT	■
SECURITY FENCE	—X—	PROPOSED CONCRETE	■
SILT FENCE	—SF—	RIP-RAP WATER EMBANKMENT STABILIZATION	■
CATCH BASIN	□		



PLANNING BOARD HTE# 21-00100006

N:\18641\05 ALBANY PORT EXPANSION\DRAWINGS\DRWG SHEET FILES - NORMANSKILL ST\18641-GR-02.DWG



**McFarland Johnson**  
 60 RAILROAD PLACE  
 SUITE 402  
 SARATOGA SPRINGS, NEW YORK 12866  
 P: 518-580-9380 F: 518-580-9383  
 SaratogaROM@mjinc.com

PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:  
**ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK

PROJECT:  
**NORMANSKILL ST. REHAB**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05-10-2022
PROJECT	18641.00



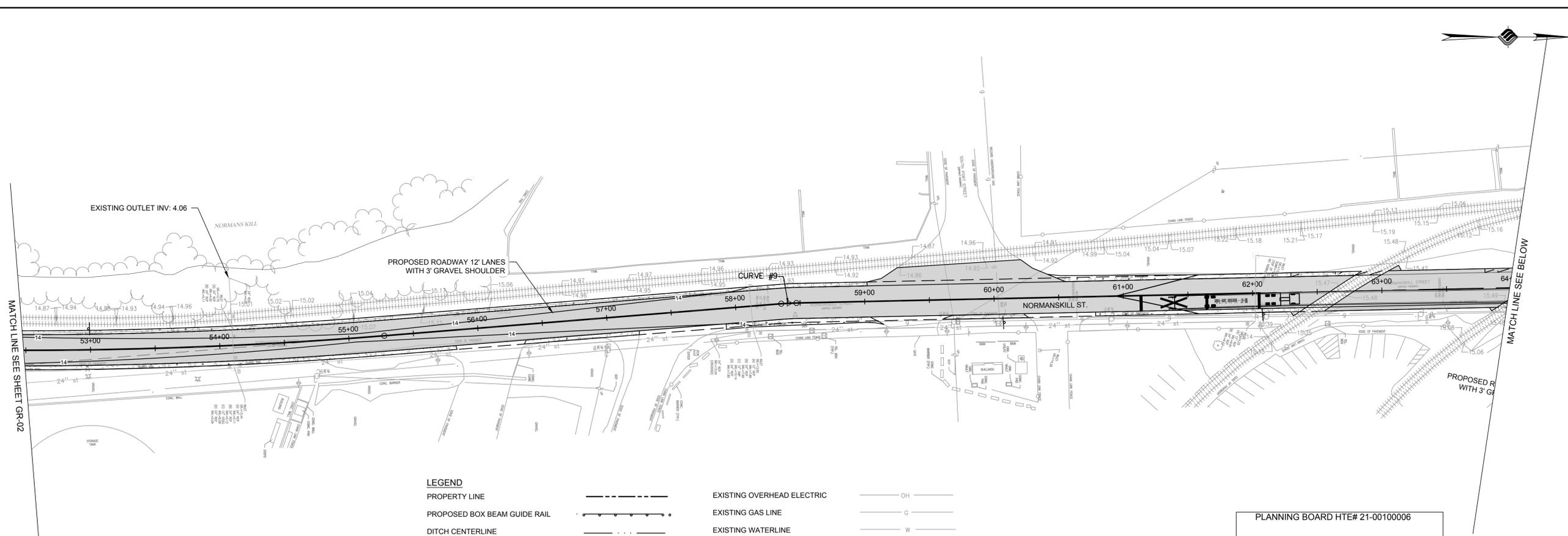
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE  
**GRADING, DRAINAGE, EROSION AND SEDIMENT CONTROL**

DRAWING NUMBER

GR-03

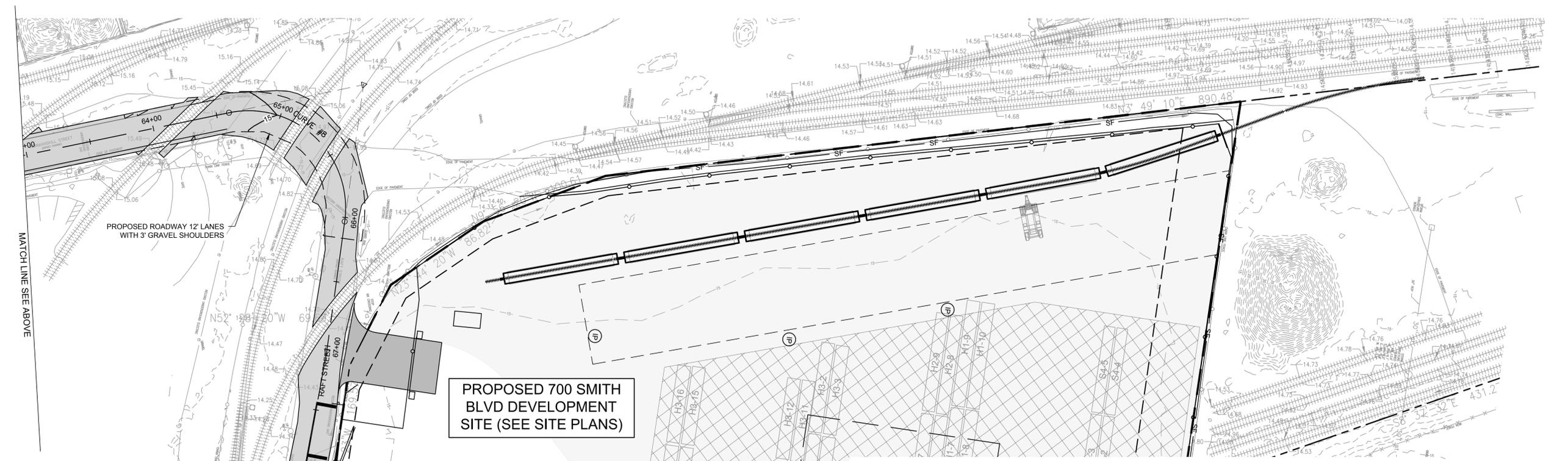
12 OF 16



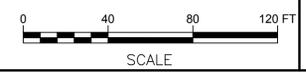
**LEGEND**

PROPERTY LINE	---	EXISTING OVERHEAD ELECTRIC	OH
PROPOSED BOX BEAM GUIDE RAIL	—●—●—	EXISTING GAS LINE	G
DITCH CENTERLINE	—○—	EXISTING WATERLINE	W
WETLAND AREA	[Wetland Symbol]	PROPOSED PAVEMENT	[Pavement Symbol]
SECURITY FENCE	—○—	PROPOSED CONCRETE	[Concrete Symbol]
SILT FENCE	SF	RIP-RAP WATER EMBANKMENT STABILIZATION	[Rip-rap Symbol]
CATCH BASIN	□		

PLANNING BOARD HTE# 21-00100006



**PROPOSED 700 SMITH BLVD DEVELOPMENT SITE (SEE SITE PLANS)**



N:\18641\_00 ALBANY PORT EXPANSION\DRAWINGS\DESIGN SHEETS\18641\_00 GRADING.DWG

Port of Albany Expansion Site											
Infiltration Test Information Table											
Test #	Location				Soil Profile ***	Test Elev.	EG Elev. *	FG Elev.	Test Date	Results **	
	Northing	Easting	Lat	Long						in/hr	
12	1376092.03	689570.93	N042° 36' 30.21"	W073° 45' 59.45"	0-0.5' Topsoil 0.5-7.0' FILL - Sandy Silt 7.0-9.0' Silt	8.1'	14.0'	8.1'	5/13/2022		0.5
12A	1376065.55	689567.77	N042° 36' 29.95"	W073° 45' 59.50"	0-0.5' Topsoil 0.5-2.0' FILL - Silt with Sand 2.0-4.0' Sandy Silt 4.0-8.0' Silty Sand	9.0'	12.7'	9.0'	5/18/2022		8.6
13	1376115.27	689572.99	N042° 36' 30.44"	W073° 45' 59.42"	0-7.0' Sandy Silt 7.0-9.0' Silty Sand 9.0-11.0' Sandy Silt	8.1'	14.6'	8.1'	5/13/2022		0.1
14	1376905.51	689652.3	N042° 36' 38.24"	W073° 45' 58.27"	0-0.5' Topsoil 0.5-2.0' Sandy Silt 2.0-3.0' Silty Clay	5.8'	5.8'	5.8'	5/13/2022		12.4
15	1376922.65	689655.08	N042° 36' 38.41"	W073° 45' 58.23"	0-0.5' Topsoil 0.5-1.5' Silt 1.5-3.0' Silty Clay	5.8'	5.8'	5.8'	5/13/2022		>24

\* Note EG elevations may have changed from the tree clearing work.  
\*\* Represents result of final trial at each location.  
\*\*\* Summary of soil profiles, see Terracon Infiltration Testing Results Letter Dated June 7, 2022 for more detailed descriptions.

Pipe Table				
Pipe Name	Description	Size	Length	Slope
P-10-EX	Corrugated Metal Pipe	36.000	59.9	1.47%
P-8-EX	Corrugated Metal Pipe	24.000	47.5	2.21%
P-7-EX	Corrugated Metal Pipe	24.000	259.7	0.59%
P-5-EX	Corrugated Metal Pipe	24.000	30.8	0.00%
P-6-EX	Corrugated Metal Pipe	24.000	38.7	2.22%
P-4-EX	Corrugated Metal Pipe	24.000	402.5	-0.68%
P-2-EX	Corrugated Metal Pipe	24.000	388.0	-0.46%
P-1-EX	Corrugated Metal Pipe	12.000	50.9	-2.73%
P-3-EX	Corrugated Metal Pipe	12.000	36.2	-2.92%
P-9-PROP	NYS DOT ITEM 603.9812	12.000	218.1	0.50%
P-11-PROP	NYS DOT ITEM 603.9818	18.000	7.6	0.50%
P-12-PROP	NYS DOT ITEM 603.9818	18.000	7.4	0.50%

Pipe Table				
Pipe Name	Description	Size	Length	Slope
P-13-PROP	NYS DOT ITEM 603.9818	18.000	86.0	1.04%

Pipe Table				
Pipe Name	Description	Size	Length	Slope
P-14-PROP	NYS DOT ITEM 603.9818	18.000	59.1	0.59%
P-15-PROP	NYS DOT ITEM 603.9812	12.000	30.3	0.26%
P-16-PROP	HDPE Pipe	18.000	24.8	0.24%

Structure Table			
Structure Name	Structure Details	Station and Offset	Description
D-2-EX (EXIST. CB)	RIM = 14.10 P-2-EX INV IN = 9.43 P-1-EX INV OUT = 9.61	STA. 62+01.6 21.8'R	EXISTING
D-1-EX (EXIST. CB)	RIM = 14.00 P-1-EX INV IN = 11.00	STA. 62+03.1 -29.0'L	EXISTING
D-8-EX (EXIST. CB)	RIM = 13.97 P-8-EX INV OUT = 7.51	STA. 51+51.5 -14.2'L	EXISTING
D-6-EX (EXIST. CB)	RIM = 13.87 P-5-EX INV IN = 5.11 P-6-EX INV OUT = 4.92	STA. 54+10.2 -13.3'L	EXISTING
D-4-EX (EXIST. CB)	RIM = 13.84 P-3-EX INV IN = 9.05	STA. 58+11.4 -16.9'L	EXISTING
D-3-EX (EXIST. CB)	RIM = 13.60 P-4-EX INV IN = 7.85 P-2-EX INV OUT = 7.66 P-3-EX INV OUT = 7.99	STA. 58+12.4 19.3'R	EXISTING
D-5-EX (EXIST. CB)	RIM = 13.39 P-7-EX INV IN = 5.09 P-5-EX INV OUT = 5.11 P-4-EX INV OUT = 5.12	STA. 54+10.5 17.5'R	EXISTING
D-9 (PROP. CB)	RIM = 13.02 P-9-PROP INV OUT = 9.01	STA. 49+37.1 34.1'R	NYS DOT ITEM 604.311911
D-7-EX (EXIST. CB)	RIM = 12.48 P-8-EX INV IN = 6.46 P-9-PROP INV IN = 7.92 P-7-EX INV OUT = 6.61	STA. 51+53.1 33.3'R	EXISTING
D-11 (PROP. CB)	RIM = 10.52 P-11-PROP INV IN = 8.00 P-12-PROP INV IN = 8.00 P-10-EX INV OUT = 7.52	STA. 39+58.6 23.2'R	NYS DOT ITEM 604.302016
D-10 (PROP. FLARED END SECTION)	P-10-EX INV IN = 6.64	STA. 39+70.5 -35.5'L	NYS DOT ITEM 603.17143601
D-12 (PROP. FLARED END SECTION)	P-11-PROP INV OUT = 8.04	STA. 39+66.3 23.1'R	NYS DOT ITEM 603.171316
D-13 (PROP. FLARED END SECTION)	P-12-PROP INV OUT = 8.04	STA. 39+51.3 22.0'R	NYS DOT ITEM 603.171316

Structure Table			
Structure Name	Structure Details	Station and Offset	Description
D-15 (PROP. FLARED END SECTION)	P-13-PROP INV OUT = 8.67	STA. 38+14.4 28.8'R	NYS DOT ITEM 603.171316
D-14 (PROP. FLARED END SECTION)	P-13-PROP INV IN = 7.77	STA. 39+03.4 24.6'R	NYS DOT ITEM 603.171316

Structure Table			
Structure Name	Structure Details	Station and Offset	Description
D-16 (PROP. CB)	P-14-PROP INV OUT = 13.75	STA. 12+58.7 22.8'R	NYS DOT ITEM 604.301911
D-17 (PROP. METAL END SECTION)	P-14-PROP INV IN = 13.40	STA. 12+60.0 -36.3'L	NYS DOT ITEM 603.171316
D-18 (PROP. METAL END SECTION)	P-15-PROP INV OUT = 12.20	STA. 13+29.1 -34.0'L	NYS DOT ITEM 603.171316
D-19 (PROP. METAL END SECTION)	P-15-PROP INV IN = 12.12	STA. 12+99.3 -37.8'L	NYS DOT ITEM 603.171316
D-20 (PROP. METAL END SECTION)	P-16-PROP INV OUT = 9.92	STA. 20+91.2 -30.6'L	Concrete Flared End Section
D-21 (PROP. METAL END SECTION)	P-16-PROP INV IN = 9.86	STA. 20+66.4 -31.9'L	Concrete Flared End Section

- NOTES:
- PROPOSED PIPING SHALL BE IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION SECTION 603.

PLANNING BOARD HTE# 21-00100006



**McFarland Johnson**  
60 RAILROAD PLACE  
SUITE 402  
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P:518-580-9380 F:518-580-9383  
SaratogaROM@mjinc.com

PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
2	06/06/22	TOWN COMMENTS

CLIENT:  
**ALBANY PORT DISTRICT COMMISSION**  
ALBANY, NEW YORK

PROJECT:  
**NORMANSKILL ST. REHAB**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05-10-2022
PROJECT	18641.00



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE  
**DRAINAGE TABLES**

DRAWING NUMBER  
**GR-04**

N:\18641\_00\ALBANY PORT EXPANSION\DRAWINGS\DRAINAGE\DR-04.DWG



**McFarland Johnson**

60 RAILROAD PLACE  
SUITE 402  
SARATOGA SPRINGS, NEW YORK 12866  
P: 518-580-9380 F: 518-580-9383  
SaratogaROM@mjinc.com

PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT: **ALBANY PORT DISTRICT COMMISSION**  
ALBANY, NEW YORK  
PROJECT: **NORMANSKILL ST. REHAB**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05-10-2022
PROJECT	18641.00



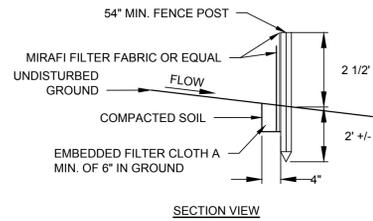
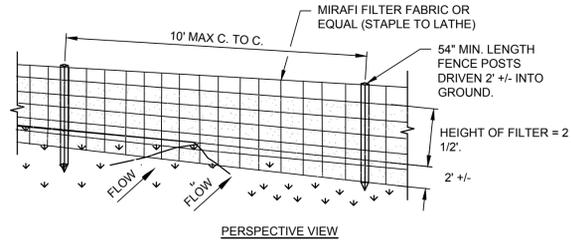
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DRAWING TITLE  
**EROSION AND SEDIMENT CONTROL DETAILS**

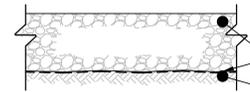
DRAWING NUMBER

DT-01

PLANNING BOARD HTE# 21-00100006



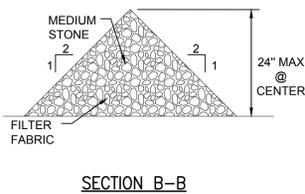
- NOTES:
- MIRAFI FILTER FABRIC TO BE SECURED TO FENCE POSTS WITH STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



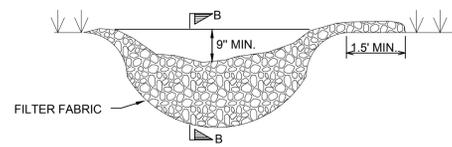
- 8" SUBBASE - TYPE 2 NYSDOT ITEM 304.12
- MIRAFI 600X GEOTEXTILE FABRIC
- COMPACTED SUBGRADE

**SILT FENCE**

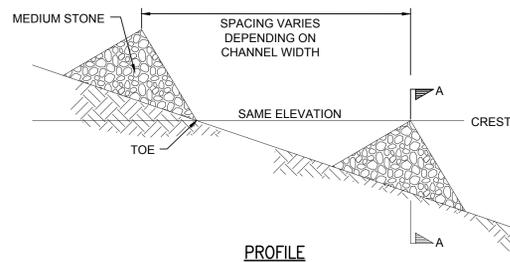
**STORMWATER MANAGEMENT ACCESS DRIVEWAY**



SECTION B-B



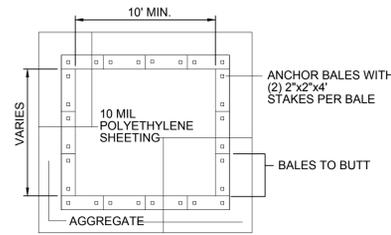
SECTION A-A



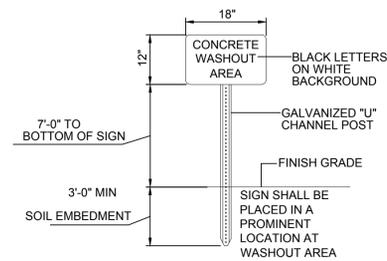
PROFILE

- CONSTRUCTION SPECIFICATIONS
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES GRADES AND LOCATIONS SHOWN ON THE PLAN.
  - SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
  - EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
  - PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
  - ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

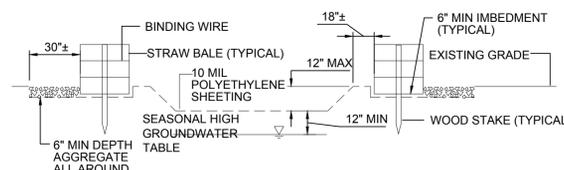
**LIGHT STONE CHECK DAM**



PLAN



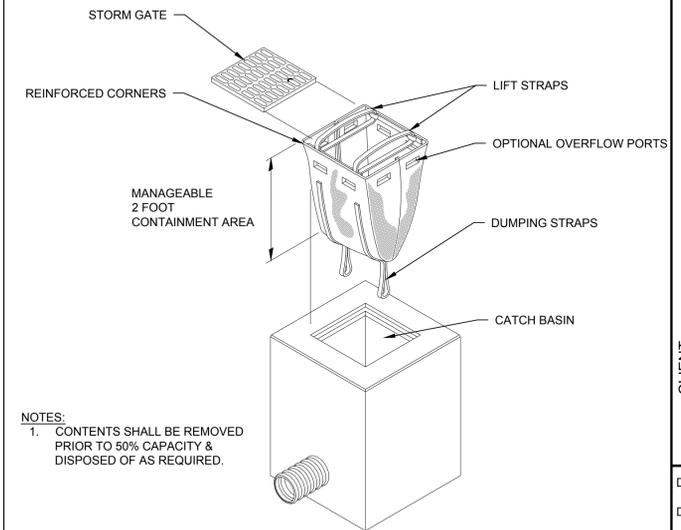
WASHOUT SIGN



TYPICAL SECTION

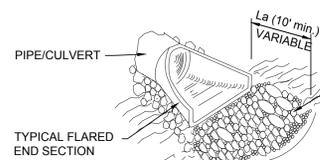
- NOTES:
- CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
  - CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
  - WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
  - WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
  - ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
  - AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

**CONCRETE WASHOUT**

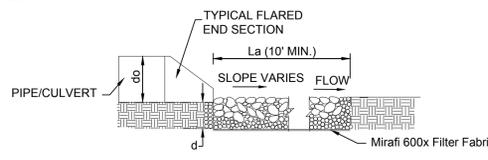


- NOTES:
- CONTENTS SHALL BE REMOVED PRIOR TO 50% CAPACITY & DISPOSED OF AS REQUIRED.

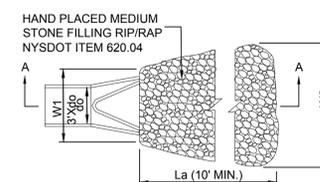
**INLET PROTECTION**



ISOMETRIC VIEW



SECTION A-A

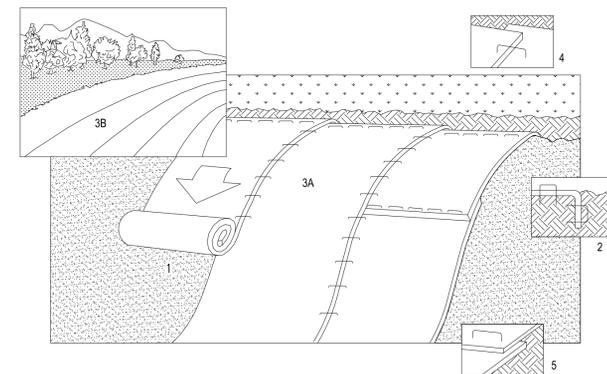


PLAN

- do = Pipe Dia. (see plans)  
La = Apron Length  
W = Apron Width (centered on pipe)  
d = Apron Depth

- NOTES:
- d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NO LESS THAN 6".
  - INSTALL FILTER MIRAFI 500X OR APPROVED EQUAL FILTER FABRIC BETWEEN RIP-RAP AND SUBGRADE.

**OUTLET PROTECTION - RIP RAP**



- NOTES:
- REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
  - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
  - ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
  - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
  - WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
  - MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL SUPERCEDE THIS DETAIL.

**EROSION CONTROL MAT INSTALLATION**

**STORMWATER MANAGEMENT PRACTICE - INFILTRATION BASIN**

PROJECT IDENTIFICATION - SPDES CONSTRUCTION PERMIT # NYRXXXXXX

MUST BE MAINTAINED IN ACCORDANCE WITH O&M PLAN

DO NOT REMOVE OR ALTER

NYSDEC SPDES CONSTRUCTION PERMIT NUMBER TO BE PROVIDED ONCE ISSUED (TYP.)

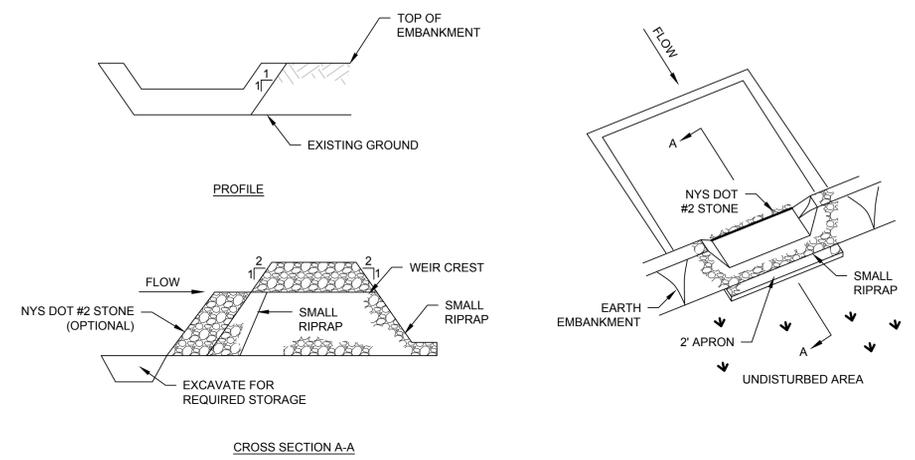
**WARNING**

SWIMMING, WADING, AND SKATING IS PROHIBITED

POSSIBLE CONTAMINATION OR POLLUTION OF POND WATER

MAXIMUM POND DEPTH IS 5 FEET

SEE SHEET RP-01, RP-02 & GR-01 - FOR LOCATION, ORIENTATION, AND QUANTITY

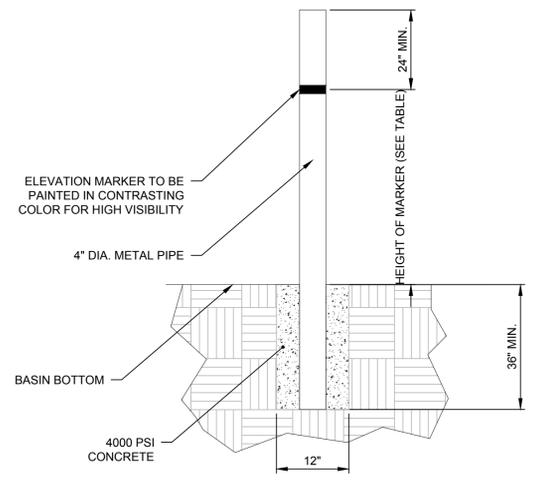


OPTION: A ONE FOOT LAYER OF NYS DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP IN PLACE OF THE EMBEDDED FILTER CLOTH.

- NOTES:
1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
  2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
  3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
  4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
  5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. IT SHALL BE PLACED ON SITE AND STABILIZED.
  6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
  7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
  8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
  9. THE MAXIMUM DRAINAGE AREA IS 5 ACRES.

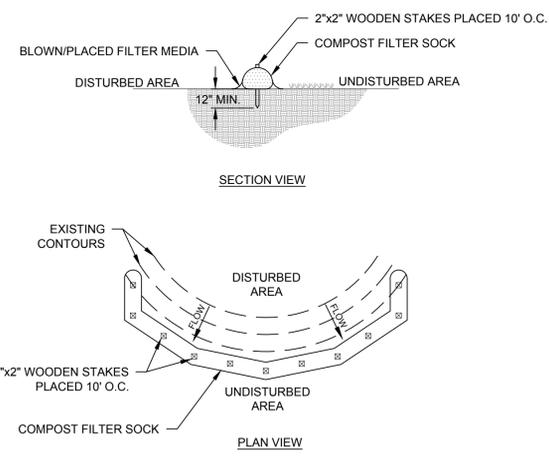
**STORMWATER MANAGEMENT SIGNAGE**

**STONE OUTLET SEDIMENT TRAP (INFILTRATION BASIN FOREBAYS TO SERVE AS SEDIMENT TRAPS)**



- NOTES:
1. CONTRACTOR SHALL PLACE A 4" DIA. METAL PIPE AT A MINIMUM OF 36" BELOW THE BASIN BOTTOM ELEVATION ENCASED IN 12" OF 4000 PSI CONCRETE.
  2. CONTRACTOR SHALL MARK THE CORRESPONDING ELEVATION FOR SEDIMENT STORAGE CLEANOUT ON THE PVC PIPE TO INDICATE WHEN MAINTENANCE IS REQUIRED.
  3. SEDIMENT DEPTH GAUGE REQUIRED FOR SEDIMENT BASINS, FOREBAYS, AND INFILTRATION BASINS.

**SEDIMENT DEPTH GAUGE**



- NOTES:
1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 5.1 OF NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. COMPOST SHALL MEET THE STANDARDS LISTED ON TABLE 5.2 OF NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
  2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE X.X OF NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
  3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
  4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
  5. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
  6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
  7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

**COMPOST FILTER SOCK**

PLANNING BOARD HTE# 21-00100006

**McFarland Johnson**  
60 RAILROAD PLACE  
SUITE 402  
SARATOGA SPRINGS, NEW YORK 12866  
P: 518-580-9380 F: 518-580-9383  
SaratogaROM@mjinc.com

PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:  
**ALBANY PORT DISTRICT COMMISSION**  
ALBANY, NEW YORK

PROJECT:  
**NORMANSKILL ST. REHAB**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05-10-2022
PROJECT	18641.00

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE  
**EROSION AND SEDIMENT CONTROL DETAILS**

DRAWING NUMBER  
**DT-02**

N:\18641\_00 ALBANY PORT DISTRICT COMMISSION\DRAWINGS\SHEET FILES - NORMANSKILL ST\18641-00-DT-02.DWG



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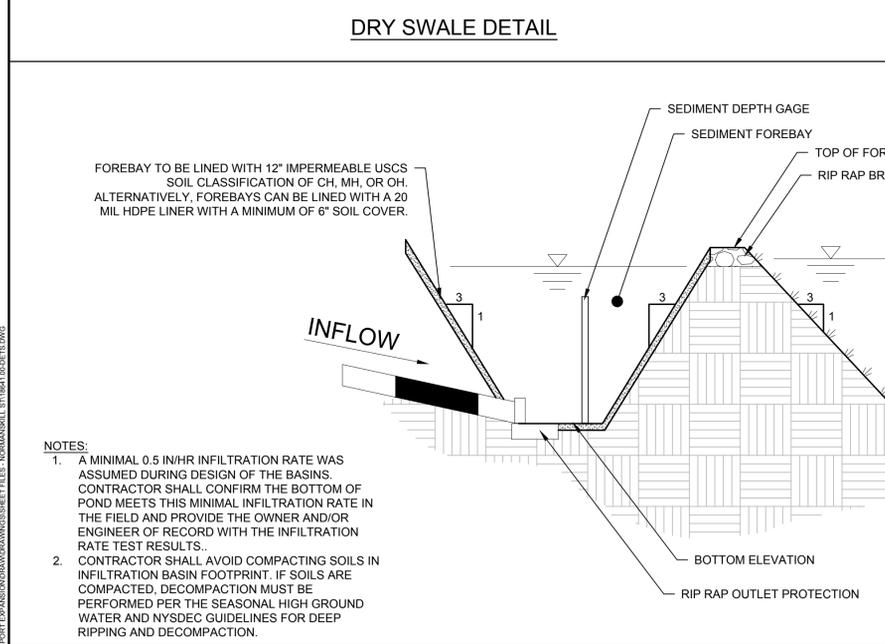
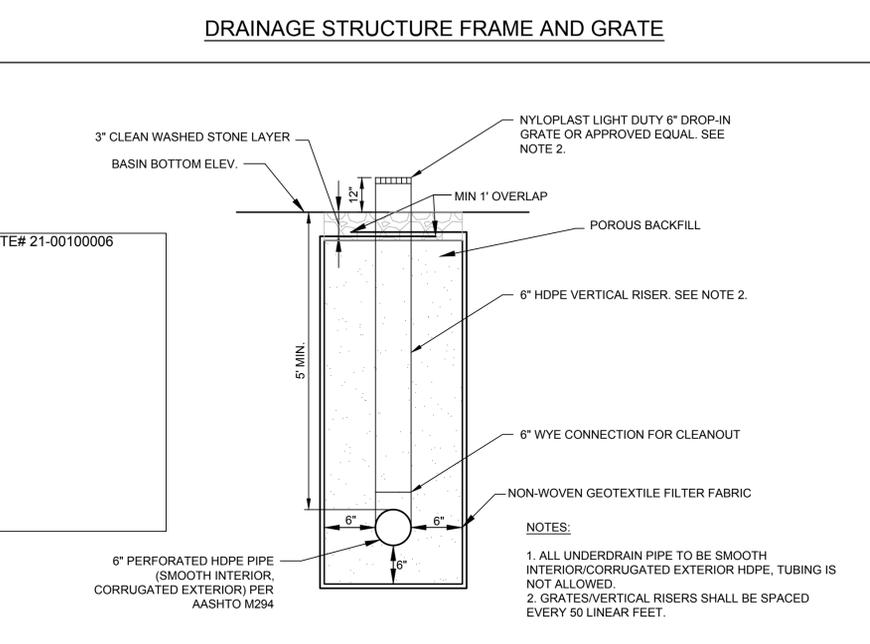
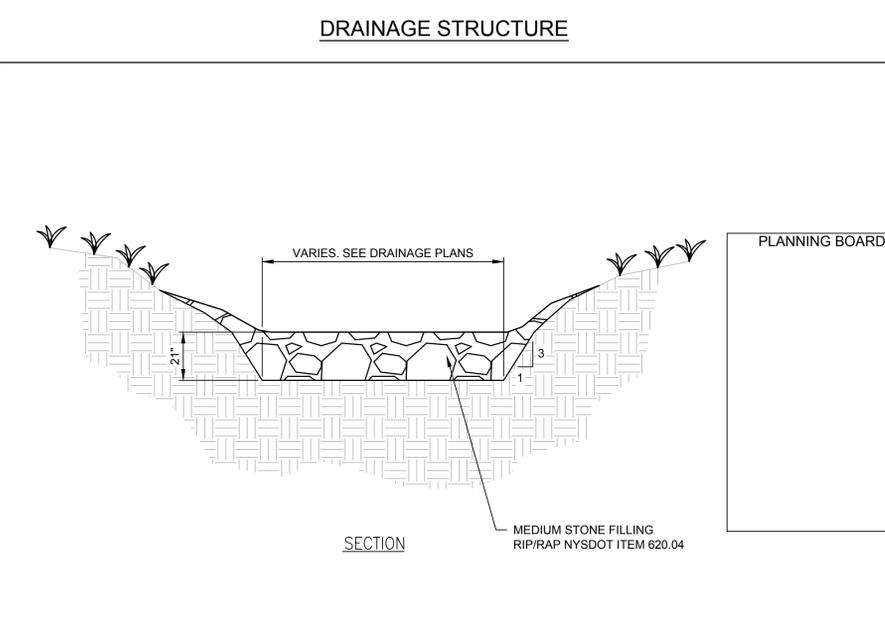
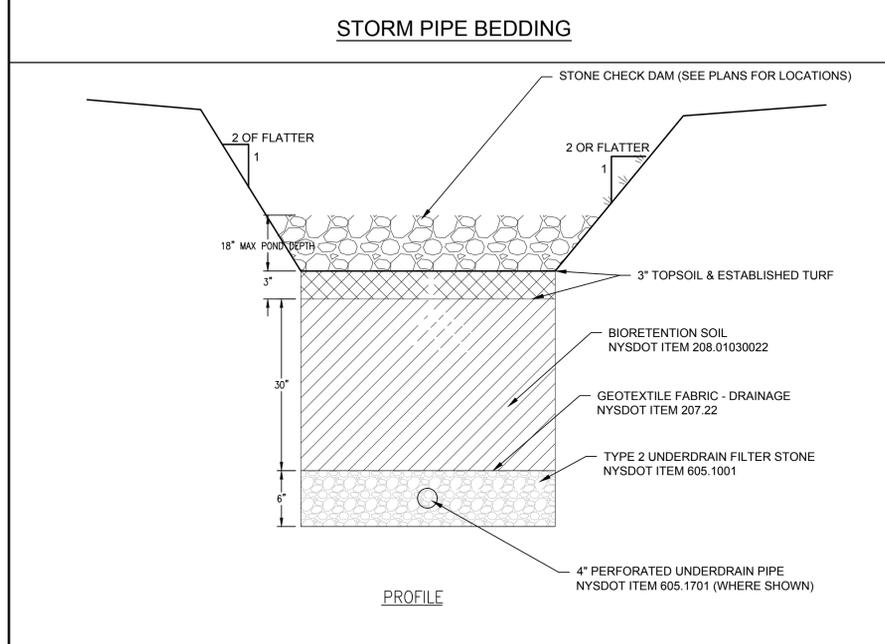
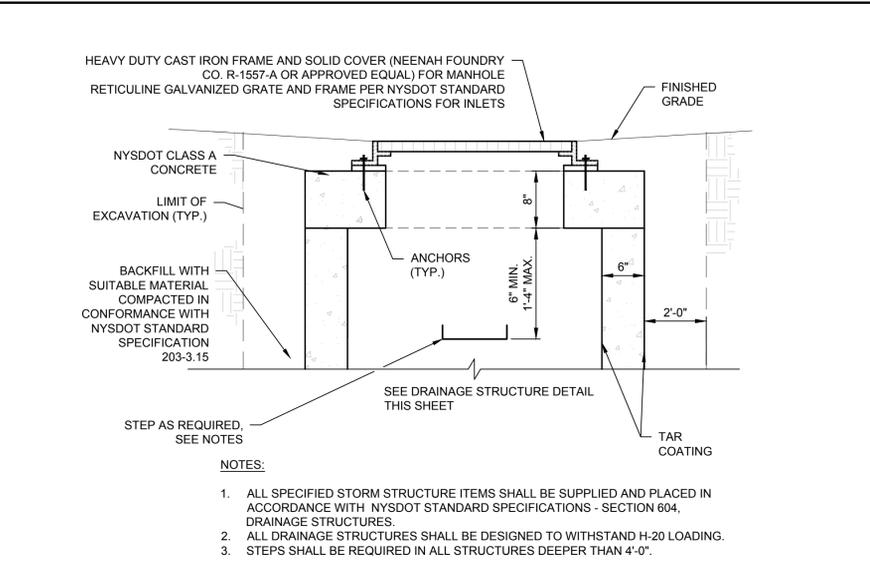
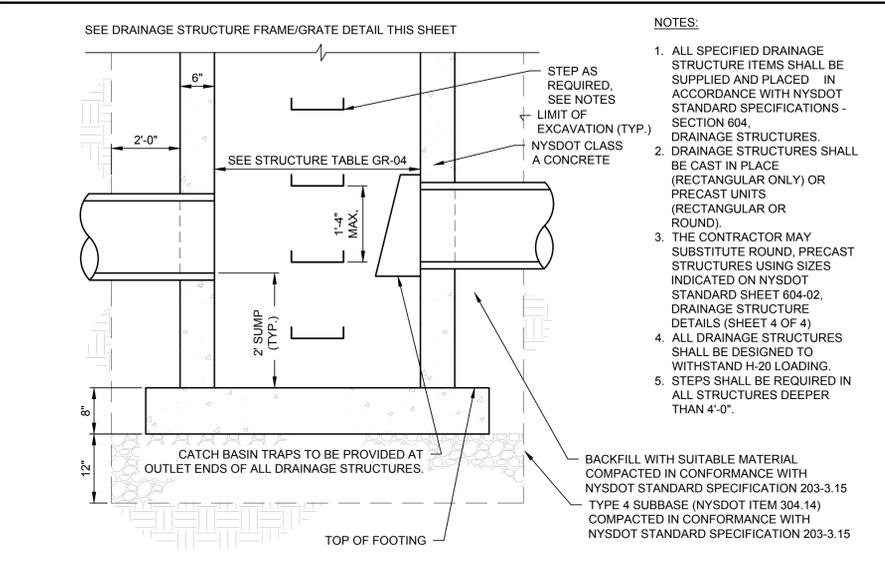
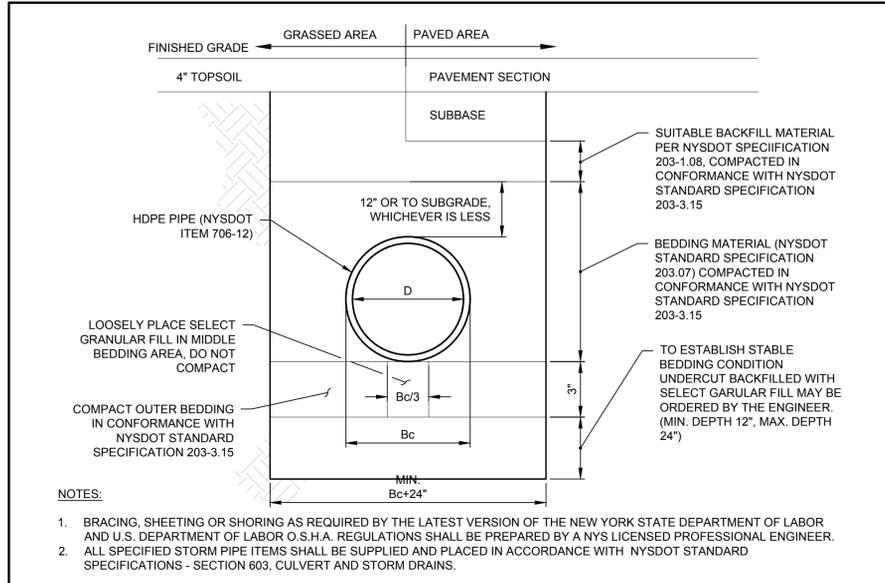
DRAWN	JES
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DRAWING TITLE  
**DRAINAGE DETAILS**

DRAWING NUMBER  
 DT-03



**FOREBAY ELEV. (FT)**

IDENTIFIER NUMBER	1
TOP ELEV.	13.0'
BOTTOM ELEV.	9.0'
EXTREME FLOOD CONTROL ELEV.	12.31'
OVERBANK FLOOD CONTROL ELEV.	12.06'
CHANNEL PROTECTION ELEV.	11.5'
WATER QUALITY ELEV.	11.0'
SEDIMENT CLEANOUT ELEV.	11.0'
WEIR/SPILLWAY ELEV.	12.0'

**INFILTRATION BASIN ELEV. (FT)**

IDENTIFIER NUMBER	1
EMBANKMENT ELEV.	13.0'
BOTTOM ELEV.	8.10'
EXTREME FLOOD CONTROL ELEV.	11.94'
OVERBANK FLOOD CONTROL ELEV.	11.15'
CHANNEL PROTECTION ELEV.	8.10'
WATER QUALITY ELEV.	8.10'
SEDIMENT CLEANOUT ELEV.	9.10'
WEIR/SPILLWAY ELEV.	11.65'

**FOREBAY ELEV. (FT)**

IDENTIFIER NUMBER	2
TOP ELEV.	10.0'
BOTTOM ELEV.	5.8'
EXTREME FLOOD CONTROL ELEV.	9.3'
OVERBANK FLOOD CONTROL ELEV.	9.14'
CHANNEL PROTECTION ELEV.	9.0'
WATER QUALITY ELEV.	6.62'
SEDIMENT CLEANOUT ELEV.	7.0'
WEIR/SPILLWAY ELEV.	9.0'

**INFILTRATION BASIN ELEV. (FT)**

IDENTIFIER NUMBER	2
EMBANKMENT ELEV.	10.0'
BOTTOM ELEV.	5.8'
EXTREME FLOOD CONTROL ELEV.	8.97'
OVERBANK FLOOD CONTROL ELEV.	8.10'
CHANNEL PROTECTION ELEV.	5.82'
WATER QUALITY ELEV.	5.8'
SEDIMENT CLEANOUT ELEV.	7.0'
WEIR/SPILLWAY ELEV.	8.5'

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**INFILTRATION BASIN DETAIL**