nationalgrid

Lockport-Batavia Line #112
Rebuild Project

Appendix Y

Culvert Drawings

June 2025 Case 22-T-0654

NIAGARA MOHAWK POWER CORPORATION D/B/A

NATIONAL GRID
LOCKPORT - BATAVIA 112
REBUILD PROJECT
APPENDIX Y
PSC CASE NO. 22-T-0654

CULVERT DRAWINGS

ISSUED FOR PERMITTING

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SHEET NUMBER	CP-01

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
COVER SHEET

PREPARED BY: nationalgrid
ACCOUNT NUMBER

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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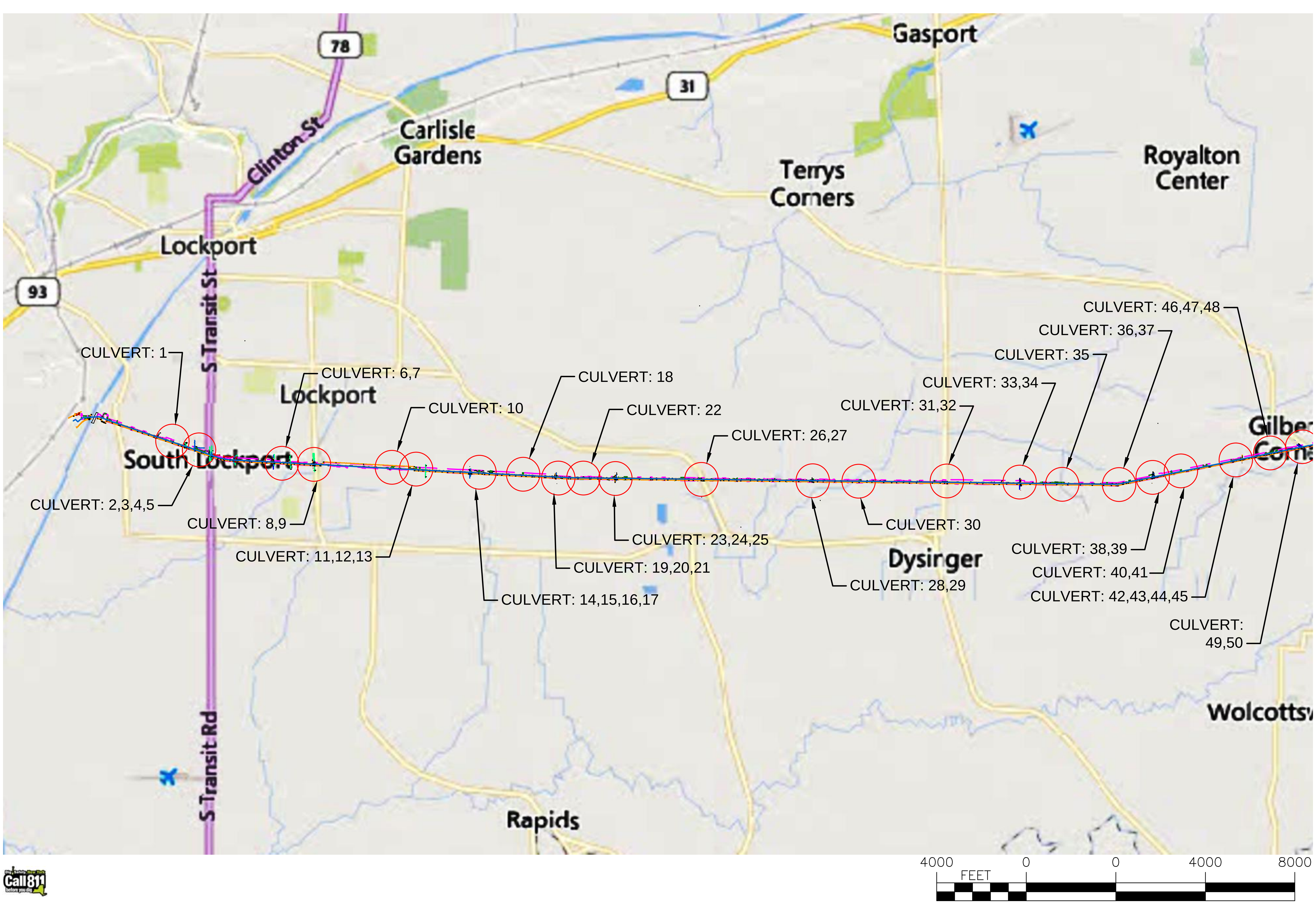

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CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
SHEET INDEX A

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ORIGINAL ISSUE DATE	6/06/25
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NO	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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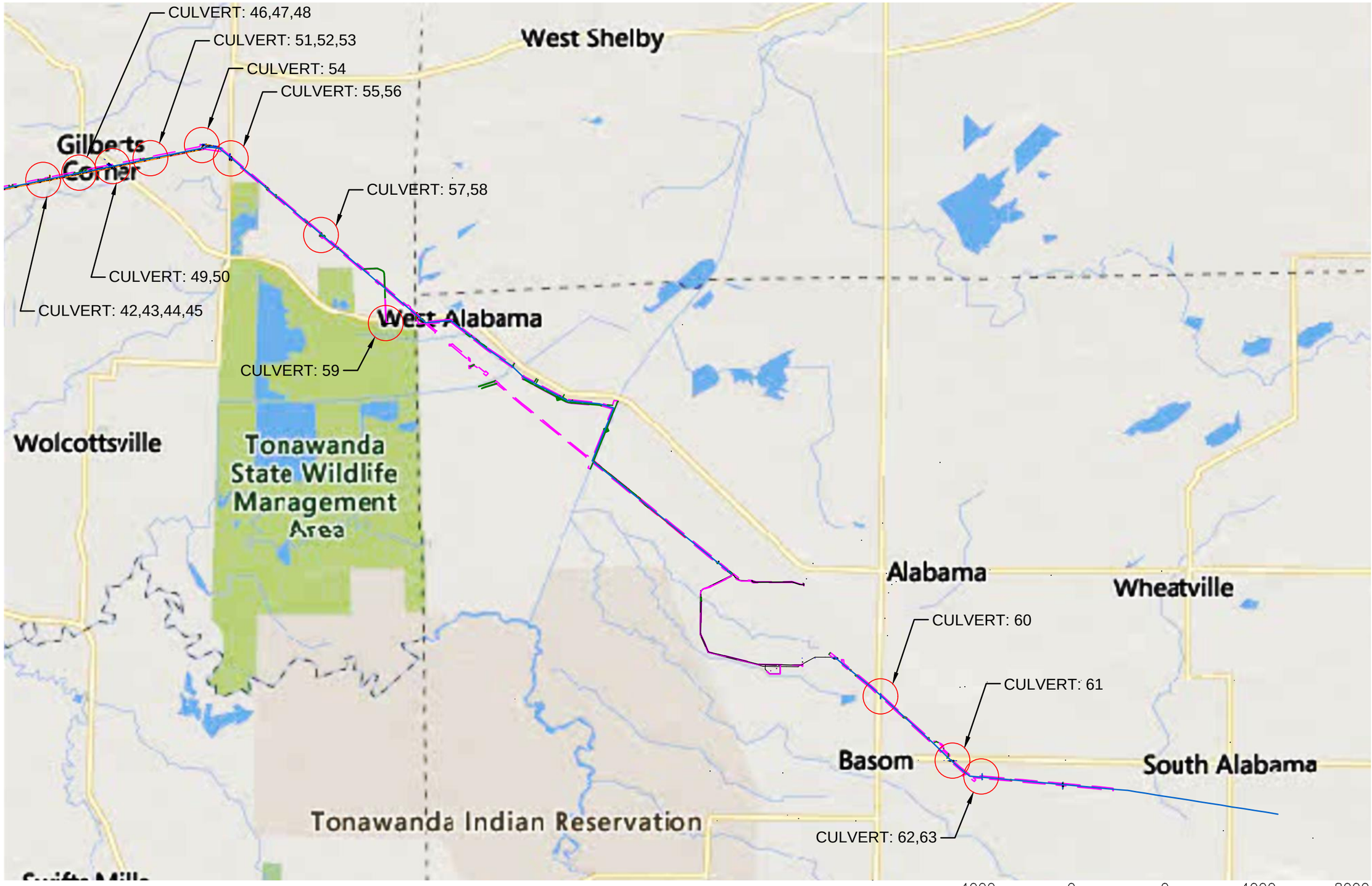

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GRID NORTH

ORIGINAL ISSUE DATE	6/06/25
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CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
SHEET INDEX A

PREPARED BY: nationalgrid

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ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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CULVERT DRAWING INDEX

DRAWING NUMBER	TITLE	CULVERT LOCATION	ASSOCIATED EM&CP SHEET
CP-10	WETLAND 006 TYPE-PEM CULVERT	BETWEEN STR. 9 & 10	19
CP-11	WETLAND 007 TYPE-PEM CULVERT	BETWEEN STR. 11 & 12	19
CP-12	WETLAND 007 TYPE-PEM CULVERT	BETWEEN STR. 11 & 12	19
CP-13	WETLAND 007 TYPE-PEM CULVERT	BETWEEN STR. 11 & 12	19
CP-14	WETLAND 007 TYPE-PEM CULVERT	BETWEEN STR. 12 & 13	19
CP-15	24" ACCESS CULVERT - LOCUST STREET EXT	BETWEEN STR. 20 & 21	20
CP-16	18" PROPOSED CULVERT	BETWEEN STR. 21 & 22	20/21
CP-17	18" ACCESS CULVERT - BEATTIE AVENUE	BETWEEN STR. 23 & 24	21
CP-18	18" ACCESS CULVERT - BEATTIE AVENUE	BETWEEN STR. 23 & 24	21
CP-19	NYSDEC STREAM 003 CROSSING CULVERT	BETWEEN STR. 30 & 31	22
CP-20	18" PROPOSED CULVERT	BETWEEN STR. 31 & 32	22
CP-21	18" PROPOSED CULVERT	BETWEEN STR. 32 & 33	22
CP-22	18" PROPOSED CULVERT	BETWEEN STR. 32 & 33	22/23
CP-23	24" ACCESS CULVERT - BOWMILLER ROAD	BETWEEN STR. 36 & 37	23
CP-24	18" ACCESS CULVERT - BOWMILLER ROAD	BETWEEN STR. 36 & 37	23
CP-25	24" PROPOSED CULVERT	BETWEEN STR. 37 & 38	23
CP-26	NYSDEC STREAM 004 CROSSING CULVERT	BETWEEN STR. 38 & 39	24
CP-27	18" PROPOSED CULVERT	BETWEEN STR. 41 & 42	24
CP-28	18" ACCESS CULVERT - WYNKOOP ROAD	BETWEEN STR. 44 & 45	25
CP-29	18" ACCESS CULVERT - WYNKOOP ROAD	BETWEEN STR. 44 & 45	25
CP-30	WETLAND 011 TYPE-PEM CULVERT	BETWEEN STR. 45 & 46	25
CP-31	NYSDEC STREAM 005 CROSSING CULVERT	BETWEEN STR. 47 & 48	25
CP-32	WETLAND 009 TYPE-PEM CULVERT	BETWEEN STR. 49 & 50	25/26
CP-33	WETLAND 009 TYPE-PEM CULVERT - OAK LANE	BETWEEN STR. 50 & 51	25/26
CP-34	WETLAND 012 TYPE-PEM CULVERT - OAK LANE	BETWEEN STR. 50 & 51	25/26
CP-35	18" ACCESS CULVERT - AKRON ROAD	BETWEEN STR. 57 & 58	27
CP-36	18" ACCESS CULVERT - AKRON ROAD	BETWEEN STR. 57 & 58	27
CP-37	WETLAND 017 TYPE-PFO CULVERT - SINGER ROAD	BETWEEN STR. 66 & 67	29
CP-38	18" ACCESS CULVERT - SINGER ROAD	BETWEEN STR. 66 & 67	29
CP-39	NYSDEC STREAM 007 CROSSING CULVERT	BETWEEN STR. 69 & 70	29
CP-40	24" ACCESS CULVERT - GASPORT ROAD	BETWEEN STR. 77 & 78	31
CP-41	24" ACCESS CULVERT - GASPORT ROAD	BETWEEN STR. 77 & 78	31
CP-42	18" ACCESS CULVERT - WARD ROAD	BETWEEN STR. 83 & 84	32
CP-43	18" ACCESS CULVERT - WARD ROAD	BETWEEN STR. 83 & 84	32
CP-44	NYSDEC STREAM 008 CROSSING CULVERT	BETWEEN STR. 86 & 87	32/33
CP-45	NYSDEC WETLAND 020 TYPE-PEM CULVERT	BETWEEN STR. 90 & 91	33

CULVERT DRAWING SHEET INDEX

DRAWING NUMBER	TITLE	CULVERT LOCATION	ASSOCIATED EM&CP A SHEET
CP-46	18" PROPOSED CULVERT	BETWEEN STR. 94 & 95	33/34
CP-47	18" ACCESS CULVERT - ROYALTON CENTER ROAD	BETWEEN STR. 96 & 97	34
CP-48	18" ACCESS CULVERT - ROYALTON CENTER ROAD	BETWEEN STR. 96 & 97	34
CP-49	PERENNIAL STREAM CROSSING CULVERT	BETWEEN STR. 97 & 98	34
CP-50	18" PROPOSED CULVERT	BETWEEN STR. 98 & 99	34
CP-51	WETLAND 024 TYPE-PEM CULVERT	BETWEEN STR. 103 & 104	35
CP-52	WETLAND 024 TYPE-PEM CULVERT	BETWEEN STR. 103 & 104	35
CP-53	18" ACCESS CULVERT - ARNOLD ROAD	BETWEEN STR. 103 & 104	35
CP-54	WETLAND 025 TYPE-PEM CULVERT - ARNOLD ROAD	BETWEEN STR. 103 & 104	35
CP-55	WETLAND 025 TYPE-PEM CULVERT	BETWEEN STR. 106 & 107	36
CP-56	WETLAND 025 TYPE-PEM CULVERT	BETWEEN STR. 106 & 107	36
CP-57	36" PROPOSED CULVERT	BETWEEN STR. 106 & 107	36
CP-58	24" ACCESS CULVERT - LEWISTON ROAD	BETWEEN STR. 109 & 110	36
CP-59	24" ACCESS CULVERT - LEWISTON ROAD	BETWEEN STR. 109 & 110	36
CP-60	WETLAND 026 TYPE-PEM CULVERT	BETWEEN STR. 111 & 112	37
CP-61	WETLAND 026 TYPE-PEM CULVERT	BETWEEN STR. 112 & 113	37
CP-62	WETLAND 026 TYPE-PEM CULVERT	BETWEEN STR. 112 & 113	37
CP-63	24" ACCESS CULVERT - JOHNSON ROAD	BETWEEN STR. 116-1 & 117	38
CP-64	30" ACCESS CULVERT - GRISWOLD STREET	BETWEEN STR. 120 & 121	39
CP-65	18" ACCESS CULVERT - GRISWOLD STREET	BETWEEN STR. 120 & 121	39
CP-66	NYSDEC STREAM 010 CROSSING CULVERT	BETWEEN STR. 130 & 131	41
CP-67	NYSDEC STREAM 010 CROSSING CULVERT	BETWEEN STR. 130 & 131	41
CP-68	18" ACCESS CULVERT - LEWISTON ROAD	BETWEEN STR. 136 & 137	43
CP-69	18" ACCESS CULVERT - ALLEGHANY ROAD	BETWEEN STR. 189 & 190	51/52
CP-70	18" ACCESS CULVERT - JUDGE ROAD	BETWEEN STR. 197 & 198	53
CP-71	18" ACCESS CULVERT - KENYON AVENUE	BETWEEN STR. 200 & 201	53/54
CP-72	18" ACCESS CULVERT - KENYON AVENUE	BETWEEN STR. 200 & 201	53/54

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VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
CULVERT INDEX

ORIGINAL ISSUE DATE: 6/06/25
SEE ST. INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-04

PREPARED BY: nationalgrid
ACCOUNT NUMBER

DES. H.P APPROVED
DR. FISHER APPROVED
CK. RW/VL APPROVED
RW/VL APPROVED

NO. | DATE | DESCRIPTION OF ISSUE OR REVISION | DR. | CK. | APP.

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CULVERT TABLE

SHEET NO.	CULVERT ID	20% BURIED INLET INVERT	20% BURIED OUTLET INVERT	SIZE (in.)	MATERIAL/TYPE	LENGTH (FT)	BETWEEN STR_ & STR_
CP-10	1	621.23	620.53	30	HDPE	27	9 & 10
CP-11	2	629.72	628.62	18	HDPE	22	11 & 12
CP-12	3	627.64	627.35	18	HDPE	22	11 & 12
CP-13	4	628.42	628.36	18	HDPE	22	11 & 12
CP-14	5	628.90	628.68	18	HDPE	22	12 & 13
CP-15	6	623.86	622.18	24	HDPE	50	20 & 21
CP-16	7	616.17	614.58	18	HDPE	44	21 & 22
CP-17	8	614.82	614.75	18	HDPE	60	23 & 24
CP-18	9*	615.85	615.49	18	HDPE	66	23 & 24
CP-19	10	618.77	618.64	72 x 48	Concrete	46	30 & 31
CP-20	11	623.60	623.42	18	HDPE	26	31 & 32
CP-21	12	623.54	623.47	18	HDPE	31	32 & 33
CP-22	13	623.60	623.27	18	HDPE	31	32 & 33
CP-23	14	MATCH EXISTING INVERT	621.78	24	HDPE	45	36 & 37
CP-24	15	623.37	622.41	18	HDPE	75	36 & 37
CP-25	16	622.50	622.27	24	HDPE	31	37 & 38
CP-26	17	617.60	617.52	96 x 48	Concrete	35	38 & 39
CP-27	18	623.15	622.17	18	HDPE	31	41 & 42
CP-28	19	619.45	618.07	18	HDPE	75	44 & 45
CP-29	20	617.99	617.84	18	HDPE	74	44 & 45
CP-30	21	614.80	614.60	18	HDPE	20	45 & 46
CP-31	22	609.50	609.28	60	HDPE	30	47 & 48
CP-32	23	612.09	611.20	18	HDPE	20	49 & 50
CP-33	24	609.07	608.22	18	HDPE	65	50 & 51
CP-34	25*	MATCH EXISTING INVERT	608.14	18	HDPE	40	50 & 51
CP-35	26*	MATCH EXISTING INVERT	605.02	18	HDPE	36	57 & 58
CP-36	27*	MATCH EXISTING INVERT	605.34	18	HDPE	60	57 & 58
CP-37	28*	MATCH EXISTING INVERT	606.69	18	HDPE	40	66 & 67
CP-38	29*	MATCH EXISTING INVERT	607.07	18	HDPE	25	66 & 67
CP-39	30	605.22	605.21	96 x 48	Concrete	50	69 & 70
CP-40	31*	613.80	613.47	24	HDPE	50	77 & 78
CP-41	32	MATCH EXISTING INVERT	614.18	24	HDPE	50	77 & 78
CP-42	33	MATCH EXISTING INVERT	645.49	18	HDPE	45	83 & 84
CP-43	34	647.12	646.24	18	HDPE	70	83 & 84
CP-44	35	633.27	633.12	96 x 48	Concrete	50	86 & 87
CP-45	36	632.89	632.88	18	HDPE	22	90 & 91
CP-46	37	653.33	650.10	18	HDPE	24	94 & 95
CP-47	38	644.26	642.90	18	HDPE	74	96 & 97
CP-48	39	643.72	641.78	18	HDPE	85	96 & 97
CP-49	40	635.57	635.46	36	HDPE	28	97 & 98
CP-50	41	637.25	636.72	18	HDPE	28	98 & 99

CULVERT TABLE

SHEET NO.	CULVERT ID	20% BURIED INLET INVERT	20% BURIED OUTLET INVERT	SIZE (in.)	MATERIAL/TYPE	LENGTH (FT)	BETWEEN STR_ & STR_
CP-51	42	635.64	635.34	18	HDPE	22	103 & 104
CP-52	43	635.57	635.28	18	HDPE	22	103 & 104
CP-53	44	634.52	634.38	18	HDPE	40	103 & 104
CP-54	45	635.12	634.71	18	HDPE	40	103 & 104
CP-55	46	636.03	635.19	18	HDPE	22	106 & 107
CP-56	47	635.89	634.93	18	HDPE	22	106 & 107
CP-57	48	634.29	634.25	36	HDPE	25	106 & 107
CP-58	49	637.04	636.64	24	HDPE	50	109 & 110
CP-59	50	637.63	637.55	24	HDPE	63	109 & 110
CP-60	51	636.69	636.68	18	HDPE	22	111 & 112
CP-61	52	636.35	636.15	18	HDPE	22	112 & 113
CP-62	53	635.91	635.15	18	HDPE	22	112 & 113
CP-63	54	641.40	641.36	24	HDPE	32	116-1 & 117
CP-64	55*	643.00	641.78	30	HDPE	50	120 & 121
CP-65	56*	642.70	641.15	18	HDPE	50	120 & 121
CP-66	57	611.00	609.40	24	HDPE	32	130 & 131
CP-67	58	609.90	609.00	60	HDPE	57	130 & 131
CP-68	59	635.12	634.64	18	HDPE	39	136 & 137
CP-69	60*	702.72	702.98	18	HDPE	87	189 & 190
CP-70	61*	728.58	727.96	18	HDPE	84	197 & 198
CP-71	62*	739.47	739.34	18	HDPE	40	200 & 201
CP-72	63*	739.94	739.42	18	HDPE	40	200 & 201

Any culvert with the * symbol adjacent to its Culvert ID is proposed as a temporary culvert.

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VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
CULVERT TABLE

ORIGINAL ISSUE DATE: 6/06/25
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SHEET NUMBER: CP-04A

PREPARED BY: nationalgrid
ACCOUNT NUMBER:

	APPROVED	DES.
H.P	APPROVED	DES.
FISHER	APPROVED	DR.
RW/VL	APPROVED	CK.
RW/VL	APPROVED	APP.

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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NOTES:

1. EROSION AND SEDIMENT CONTROL MEASURES TO BE UTILIZED ARE INCLUDED IN THE EM&CP DRAWINGS AND THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). IN THE CASE OF CONFLICTS, THESE PLANS AND DIRECTION PROVIDED BY THE ENVIRONMENTAL MONITOR GOVERN.
   - 1.1. SLOPES UP TO 3H:1V SHALL RECEIVE TOPSOIL (APPR. 3"–4" MIN.) SEED, AND MULCH, AND BE STABILIZED WITH EROSION CONTROL BLANKET.
   - 1.2. SLOPES FROM 3H:1V TO 2H:1V SHALL RECEIVE TOPSOIL 1.2. (APPR. 3"–4") AND BE STABILIZED WITH HYDROSEED/HYDROMULCH.
   - 1.3. SLOPES STEEPER THAN 2H:1V SHALL BE STABILIZED WITH RIPRAP.
2. FILTER BARRIERS APPROVED FOR USE INCLUDE SILT FENCE, COMPOST FILTER SOCKS, AND STRAW BALES. CONTRACTOR MAY SELECT METHOD UNLESS DIRECTED OTHERWISE BY THE ENVIRONMENTAL MONITOR.
3. ALL CULVERT LENGTHS, INVERT AND OUTLET ELEVATIONS DEPICTED IN THE DRAWINGS ARE ESTIMATES BASED ON THE BEST AVAILABLE DATA. FINAL LENGTHS AND ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON ACTUAL SITE CONDITIONS SO THAT THE FUNCTIONALITY OF THE CULVERT INSTALLATION IS OPTIMIZED.

GENERAL SPECIFICATION:

1. ALL CULVERT INSTALLATIONS SHALL BE UNDERLAIN BY A LAYER OF GEOTEXTILE FILTER PLACED IN THE STREAMBED TO MITIGATE POTENTIAL SETTLEMENT UNLESS OTHERWISE NOTED.
   - 1.1. GEOTEXTILE SHALL BE MIRAFI 160N OR APPROVED EQUAL.
2. FOR THOSE INSTALLATIONS REQUIRING FILL TO CREATE THE PROPER COVER OVER THE CULVERT: ALL NON–NATIVE FILL TO CONFORM WITH NYSDOT COURSE SUB–BASE ITEM 4.
   - 2.1. LIFT THICKNESS SHALL BE 12" OR LESS IN LOOSE THICKNESS FOR MINIMUM 10–TON DRUM VIBRATORY ROLLER; 6" FOR PORTABLE PLATE COMPACTORS.
   - 2.2. COMPACTION OF ANY NYSDOT COURSE SUB–BASE ITEM 4 SHALL BE A MINIMUM 92 PERCENT OF THE MAXIMUM DRY DENSITY – MODIFIED PROCTOR (ASTM D1557, METHOD C).
3. AGGREGATE
   - 3.1. RIPRAP SHALL BE USED TO STABILIZE SLOPES IN SPECIFIC INSTANCES AS OUTLINED ON THE PLAN SET AND SHALL CONSIST OF HARD, ANGULAR, AND DURABLE STONE WITH 50 PERCENT OF THE STONE SMALLER THAN 4" SIZE. MAXIMUM STONE SIZE SHALL BE 6".
   - 3.2. FILTER STONE SHALL CONSIST OF SIZE 3 CRUSHED SCE STONE AND MEET GRADATION REQUIREMENTS FOR COURSE AGGREGATE IN TABLE 703–4 OF THE NYSDOT STANDARD SPECIFICATION (MAY 2025).
4. CULVERT INLETS AND OUTLETS SHALL FEATURE ROCK OUTLET PROTECTION AS DEFINED IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NYSDEC BLUE BOOK). A STANDARD DETAIL IS PROVIDED ON CULVERT PLAN DRAWING CP–06.

SYMBOLS SHOWN HERE MAY BE LARGER OR SMALLER THEN REPRESENTED ON DETAILED DRAWING.

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EXISTING FEATURES

- PROPERTY COUNTY TAX MAP
- 300 — CONTOUR LINE
- TN — TOWN LINE
- x — FENCE
- OH E — OVERHEAD ELECTRIC
- U/E — UNDERGROUND ELECTRIC
- G — UNDER GROUND GAS LINE
- FO — UNDER GROUND FIBER OPTIC
- W — UNDER GROUND WATER
- OIL — UNDERGROUND PETROLEUM
- SS — UNDERGROUND STORM SEWER
- S — UNDERGROUND SANITARY SEWER
- T — UNDERGROUND TELEPHONE
- NIAGARA MOHAWK POWER CORP. EXISTING PROPERTY LINES
- NIAGARA MOHAWK POWER CORP. EXISTING EASEMENT LIMITS
- NIAGARA MOHAWK POWER CORP. LEGACY PROPERTY LINES
- PARK BOUNDARY LINE
- ADJOINER PROPERTY LINES
- 235.12-1-31 — TAX MAP IDENTIFICATION NUMBER (S.B.L)
- LOCKPORT-BATAVIA #112 — SUB-TRANSMISSION & TRANSMISSION LINES
- MICHAEL ROGERS L&T NO. 115-L-7 — NIAGARA MOHAWK CORP. L&T DOCUMENT NUMBER
- WOOD POLES
- FLEX TOWERS
- SQUARE BASE TOWERS
- 3 LEGGED TOWERS
- GUY WIRES
- CULVERT
- PULL BOX
- F — F — LINE MARKER
- BOLLARDS
- DITCH
- STREAM 1, CLASS C — STREAM CENTERLINE, I.D. NUMBER CLASS
- STREAM BANK, I.D. NUMBER & CLASS
- DEC WETLAND
- DEC WETLAND 100' ADJACENT AREA
- DELINEATED WETLANDS
- WATER BODY
- FEMA FLOODPLAIN

PROPOSED FEATURES

- SILT FENCE
- FILTER SOCK
- CULVERT
- BOX CULVERT
- ROCK OUTLET PROTECTION
- DITCH
- 300 — CONTOUR LINE (MAJOR)
- 300 — CONTOUR LINE (MINOR)
- SCE — PERMANENT STABILIZED CONSTRUCTION ENTRANCE
- SCE — TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
- LIMIT OF DISTURBANCE
- FENCE
- PROPOSED PERMANENT EASEMENT
- TRANSMISSION LINES (115kV)
- PROPOSED STRUCTURE LOCATION
- CS — PROPOSED INVASIVE SPECIES CLEANING STATION
- GATE TO BE INSTALLED
- TEMPORARY ORANGE CONSTRUCTION FENCE
- TYPE 1 - PROPOSED ACCESS OVER EXISTING, IMPROVE AS NECESSARY
- TYPE 2 - PERMANENT ACCESS ROADS & WORK AREAS
- TYPE 3 - TIMBER MAT DURING CONSTRUCTION PERVIOUS POST CONSTRUCTION
- TYPE 4 - TEMPORARY CONSTRUCTION WORK AREAS, PULLING PADS OR ACCESS, IMPROVE AS NECESSARY
- TYPE 5 - TIMBER MAT ACCESS ROADS & WORK AREAS
- TYPE 6 - BERM ACCESS, IMPROVE AS NECESSARY
- WILDLIFE MANAGEMENT AREA
- EROSION CONTROL FILTER STRIP

CLEARING LIMITS FOR THE PROJECT WILL BE THE SAME AS THE LIMITS OF DISTURBANCE.

EXISTING #112 LINE STRUCTURES TO BE REMOVED.

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DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-05

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
CULVERT DRAWING LEGEND AND NOTES

nationalgrid

PREPARED BY

	DES.	DR.	CK.	APP.
APPROVED	H.P	FISHER	RW/VL	RW/VL

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION

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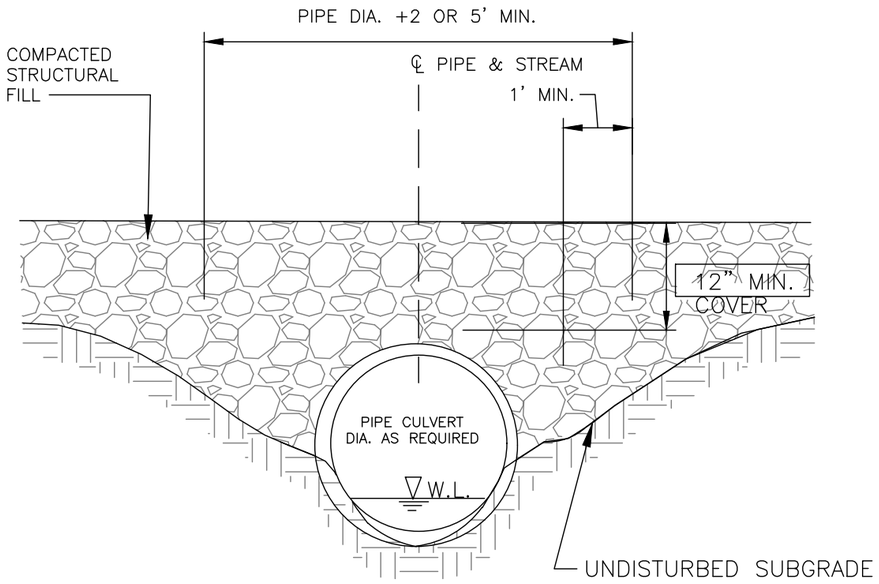


SECTION VIEW

NOT TO SCALE

NOTES:

1. CULVERTS IN STREAMS ARE TO BE 20% EMBEDDED.

SPECIFICATIONS FOR CORRUGATED METAL PIPE–ALUMINIZED TYPE 2 STEEL:

SCOPE:
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED METAL PIPE (CMP) DETAILED IN THE PROJECT PLANS.

MATERIAL:
THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M 274 OR ASTM A 929.

PIPE:
THE CMP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M–36 OR ASTM A270. THE PIPE SIZES, GAUGES, AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

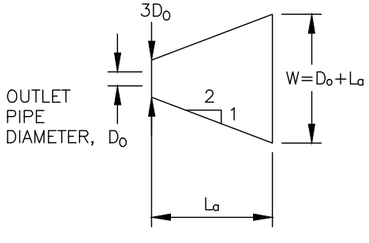
HANDLING & ASSEMBLY:
SHALL BE IN ACCORDANCE WITH NCSPA'S (NATIONAL CORRUGATED STEEL PIPE ASSOCIATION) RECOMMENDATIONS.

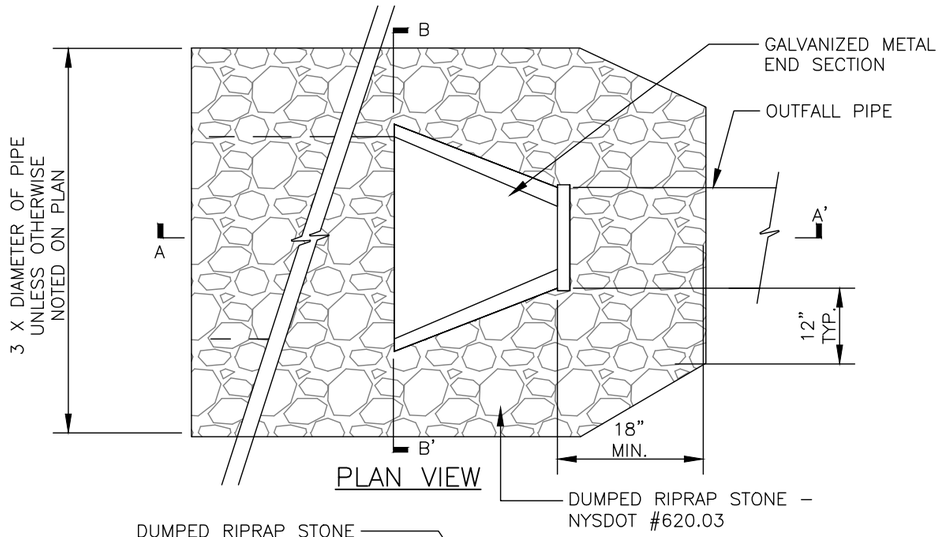
INSTALLATION:
SHALL BE IN ACCORDANCE WITH AASHTO TO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II, OR ASTM A 798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE PROJECT ENGINEER.

IT IS ALWAYS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

CONSTRUCTION LOADS:
CONSTRUCTION LOADS MAY BE HIGHER THAN FINAL LOADS. FOLLOW THE MANUFACTURER'S OR NCSPA GUIDELINES.

Diameter of Culvert (in)	d50 (in)	La (ft)
15-36	9	12
60	12	20
72x48	12	24
96x48	12	32





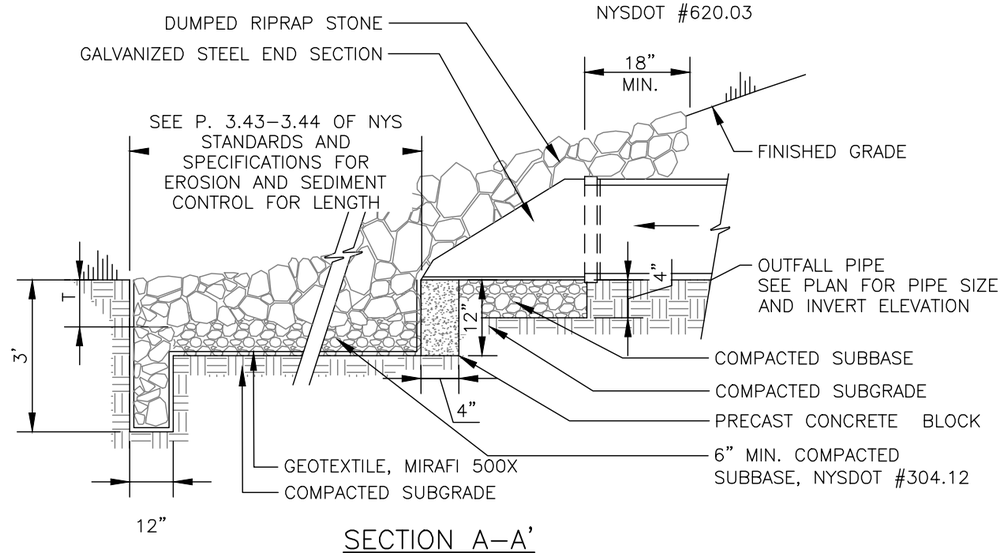
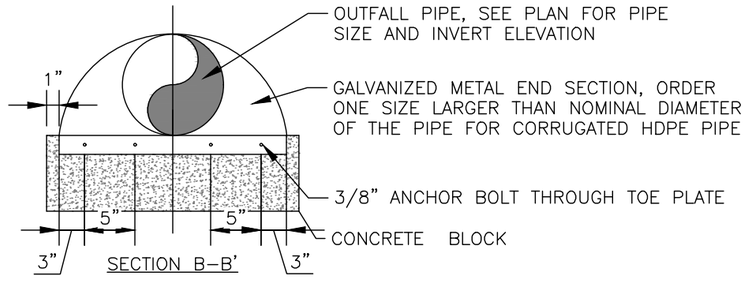


TABLE 1 – RIP RAP THICKNESS (T)	
PIPE DIA.	THICKNESS
< 24"	12" MIN.
> 24"	18" MIN.



ROCK OUTLET PROTECTION

NOT TO SCALE

ORIGINAL ISSUE DATE	6/06/25
REVISION INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-06

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
CULVERT DRAWING DETAILS

nationalgrid

PREPARED BY

DES.	H.P	APPROVED	
DR.	FISHER	APPROVED	
CK.	RW/VL	APPROVED	
	RW/VL	APPROVED	

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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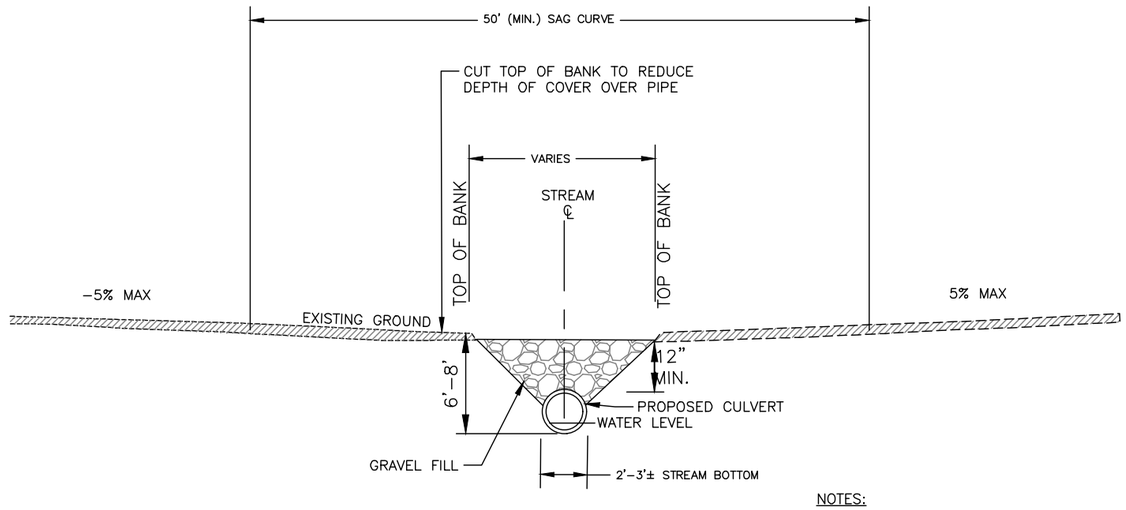
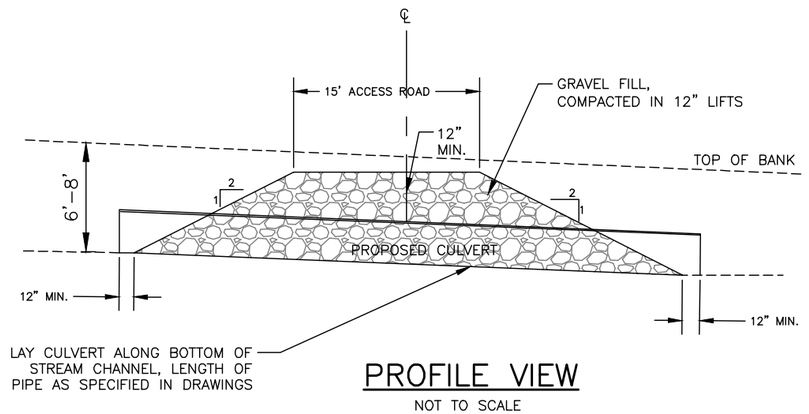


SECTION VIEW

NOT TO SCALE

NOTES:

1. PIPE CULVERT CAN BE CORRUGATED STEEL PIPE (CSP) OR CORRUGATED PLASTIC PIPE WITH SMOOTH INTERIOR (HDPE).



PROFILE VIEW

NOT TO SCALE

TYPE 1:
PIPE CULVERT INSTALLATION DETAIL

NOT TO SCALE

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CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
CULVERT DRAWING DETAILS

ORIGINAL ISSUE DATE 6/06/25
SEE INDEX 6.1-L10-M5
DRAWING NUMBER L1-41568
SHEET NUMBER CP-07

PREPARED BY nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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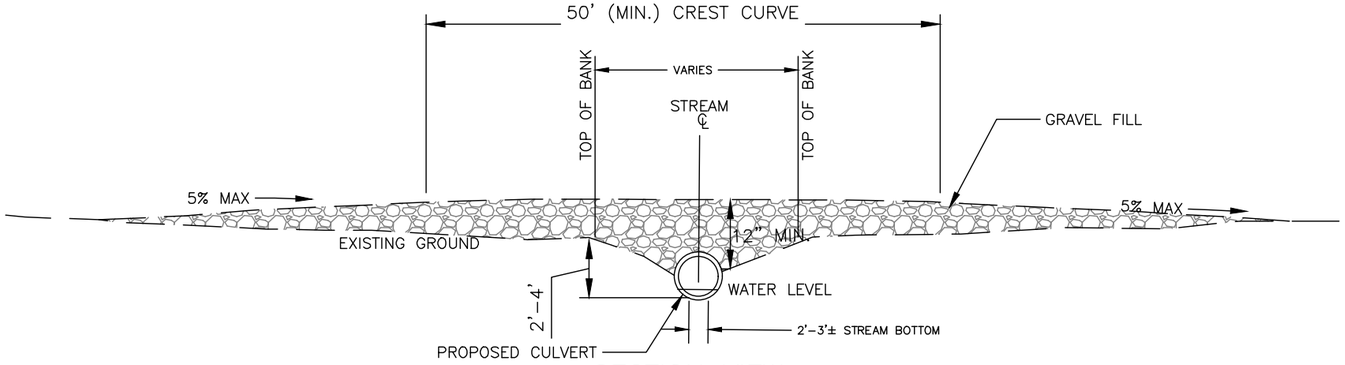
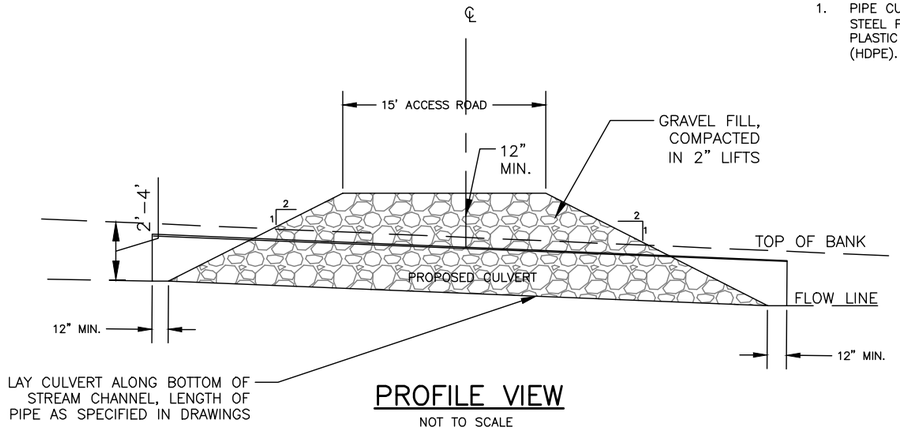


SECTION VIEW
NOT TO SCALE

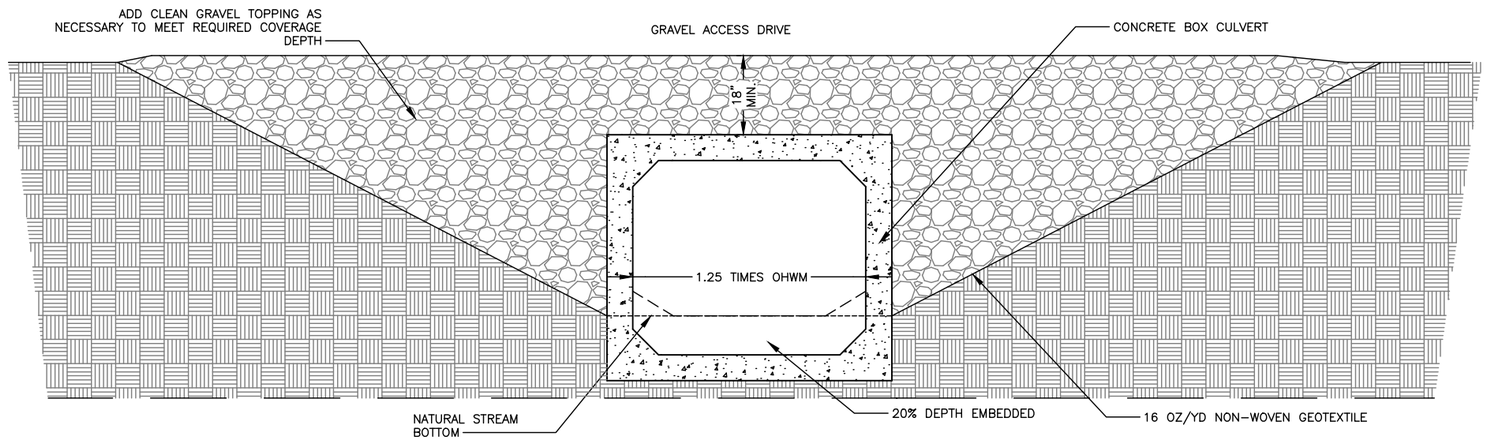
NOTES:

1. PIPE CULVERT CAN BE CORRUGATED STEEL PIPE (CSP) OR CORRUGATED PLASTIC PIPE WITH SMOOTH INTERIOR (HDPE).



PROFILE VIEW
NOT TO SCALE

TYPE 2:
PIPE CULVERT INSTALLATION DETAIL
NOT TO SCALE



BOX CULVERT DETAIL
NOT TO SCALE

ORIGINAL ISSUE DATE	6/06/25
REVISION INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-08

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
CULVERT DRAWING DETAILS

PREPARED BY: nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

ACCOUNT NUMBER

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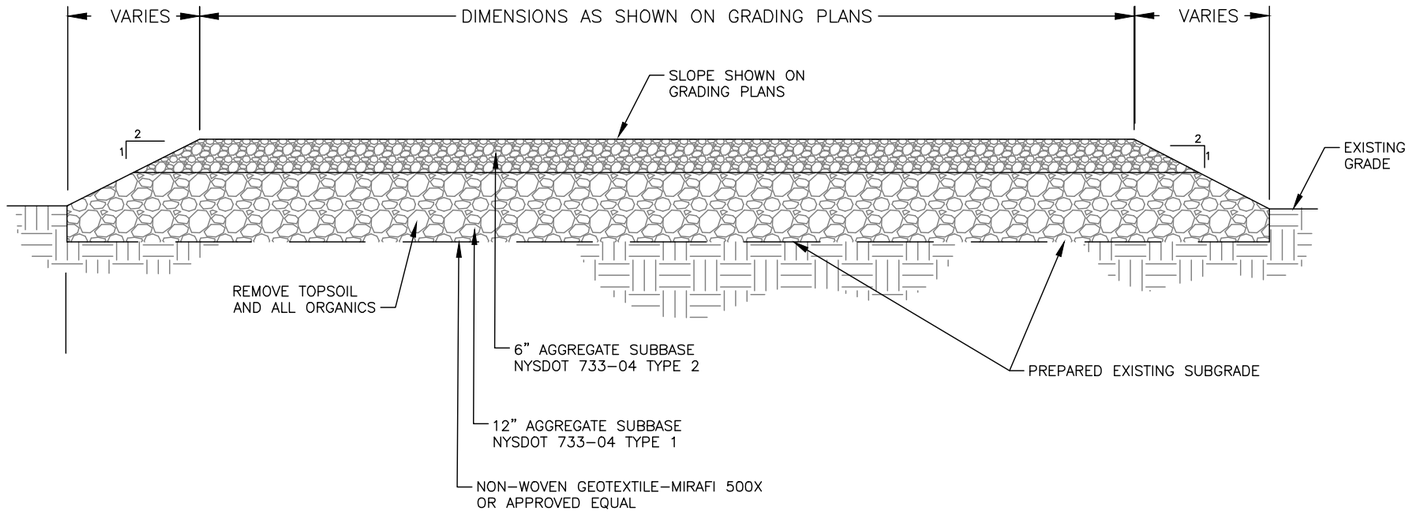

CONSTRUCTION PAD TYPICAL SECTION

NOT TO SCALE

NOTES:

1. DELINEATE LIMITS OF DISTURBANCE AND INSTALL EROSION & SEDIMENT CONTROL BMPs AS SHOWN ON PLAN AND DIRECTED BY ENGINEER OR ENVIRONMENTAL MONITOR.
2. STRIP TOP SOIL AND ORGANICS (± 6 INCHES). STOCKPILE TOP SOIL FOR FINAL SITE RESTORATION. REMOVE ALL SOFT, ORGANIC OR OTHER UNACCEPTABLE MATERIAL FROM THE SUBGRADE AND REPLACE WITH SELECT GRANULAR SUBGRADE, NYSDOT 733-1302.
3. COMPACT THE TOP SIX (6) INCHES OF SUBGRADE TO 95% MAXIMUM DRY DENSITY (MINIMUM) PER ASTM D1557. DURING COMPACTION THE SUBGRADE SHALL BE AT MINUS 3 TO PLUS 2 PERCENT (-3% TO +2%) OF THE OPTIMUM MOISTURE CONTENT.
4. INSTALL GEOTEXTILE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. PLACE AGGREGATE SUBBASE IN MAXIMUM 12" LIFTS (LOOSE). GRADE AND COMPACT TO 95% MAXIMUM DRY DENSITY.

GEOTEXTILE NOT REQUIRED IN CONSTRUCTION PADS IDENTIFIED AS "IMPROVE AS NECESSARY"

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
CULVERT DRAWING DETAILS

ORIGINAL ISSUE DATE: 6/06/25
SEE INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-09

PREPARED BY: nationalgrid

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DES.	DR.	CK.	APP.
			APPROVED H-P	APPROVED FISHER	APPROVED RW/VL	APPROVED RW/VL

ACCOUNT NUMBER

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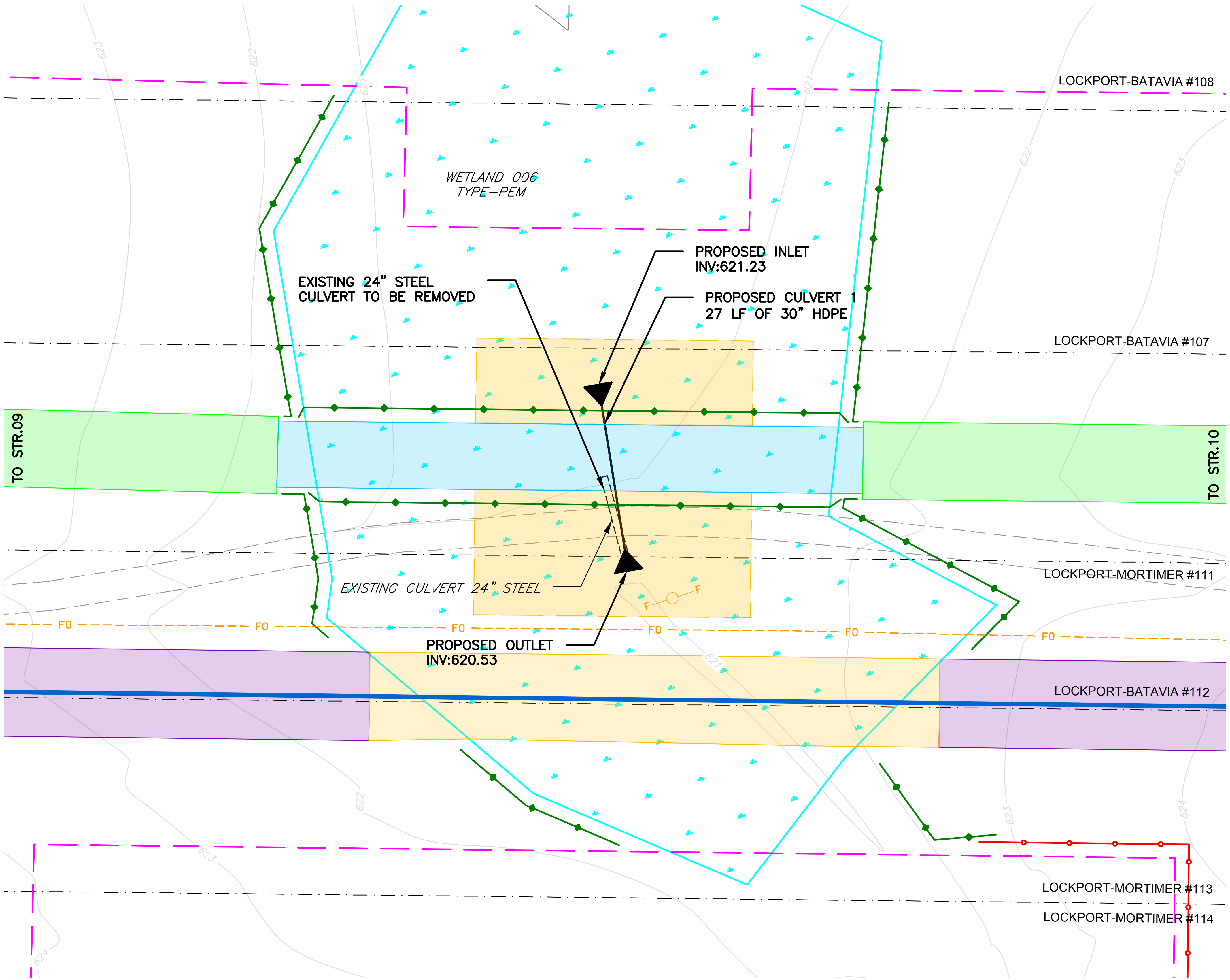
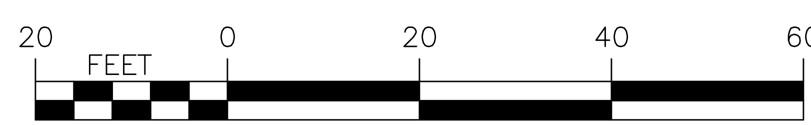


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 24" DIA. 16' STEEL CULVERT.
4. INSTALL 30" DIA. 27' HDPE CULVERT AND END SECTIONS. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP–05 FOR LEGEND INFORMATION.



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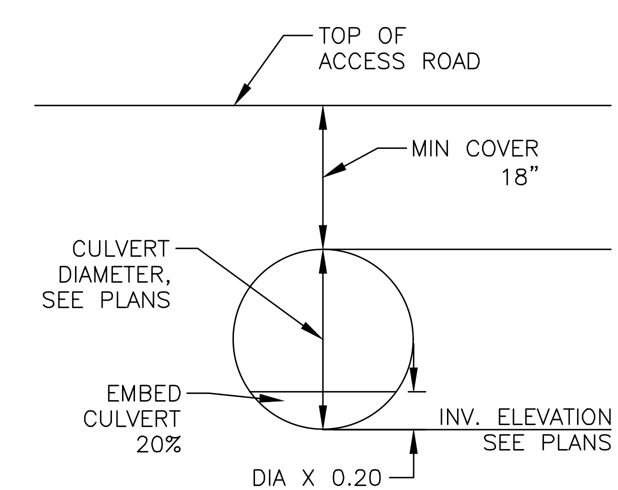

ORIGINAL ISSUE DATE: 6/06/25
FILE INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-10

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 006 TYPE-PEM CULVERT

nationalgrid

DES. H.P	APPROVED	
DR. FISHER	APPROVED	
CK. RWVL	APPROVED	
RWVL	APPROVED	

NO	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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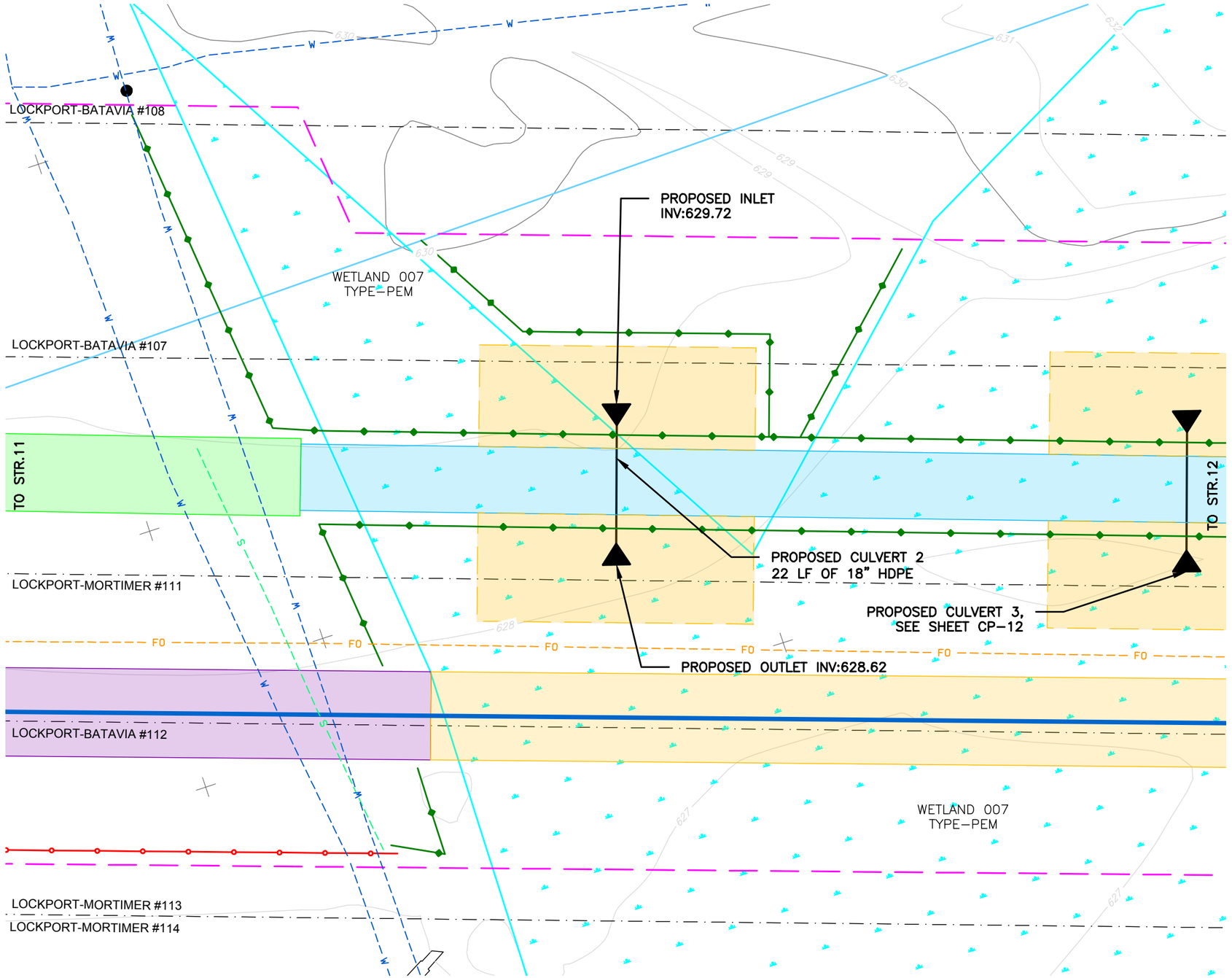

NOTES:

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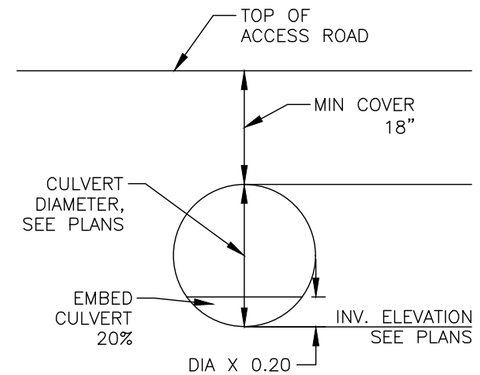
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
SEE INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-11

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 007 TYPE-PEM CULVERT

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RW/VL	
	APPROVED	RW/VL	

PREPARED BY: nationalgrid
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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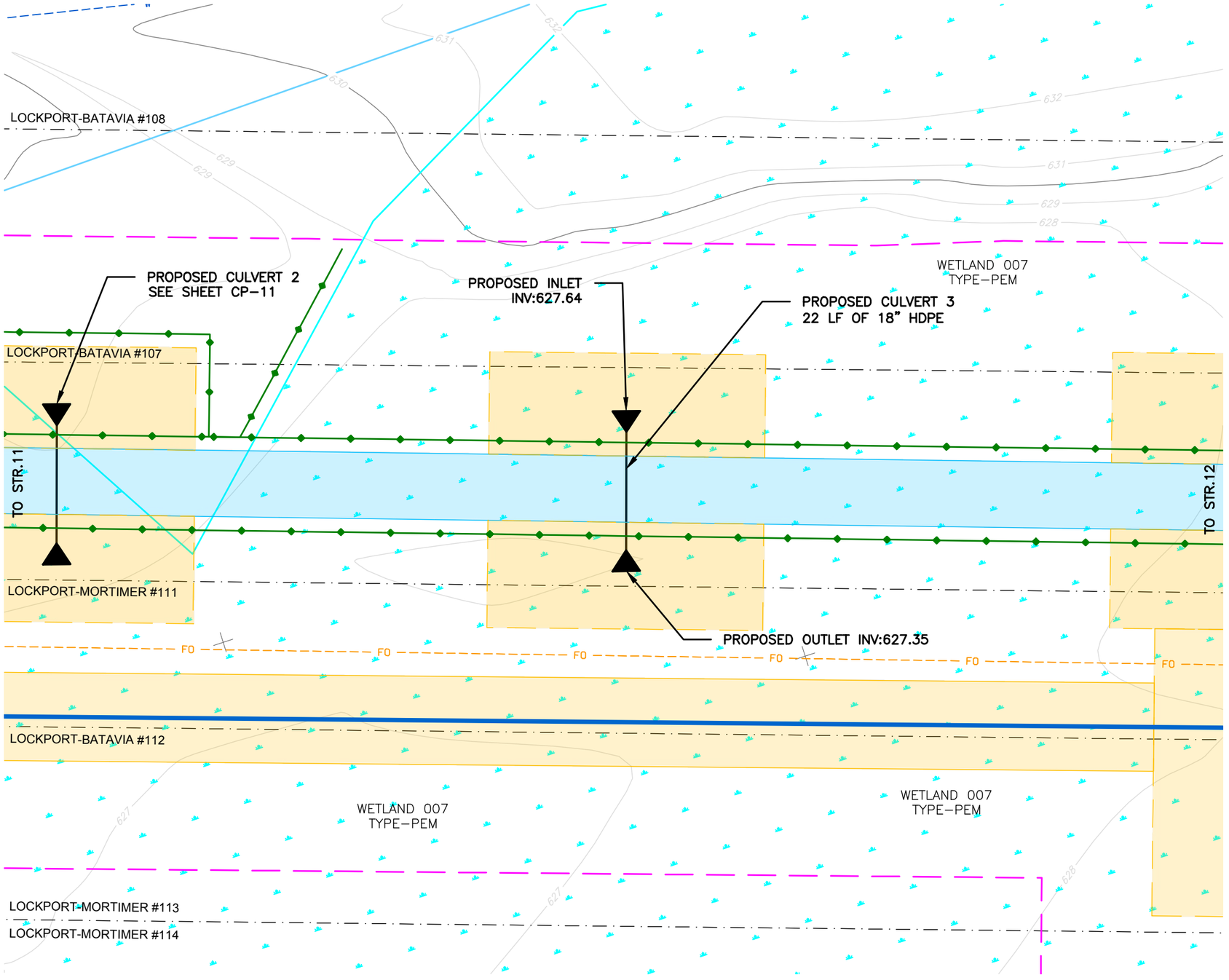

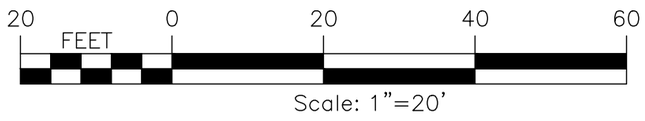

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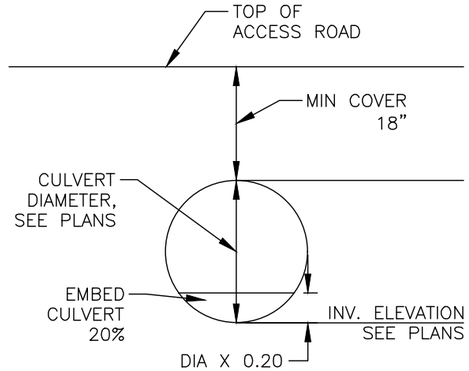
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-12

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 007 TYPE-PEM CULVERT

PREPARED BY: nationalgrid

DES.	APPROVED H.P		
DR.	APPROVED FISHER		
CK.	APPROVED RWVL		
	APPROVED RWVL		

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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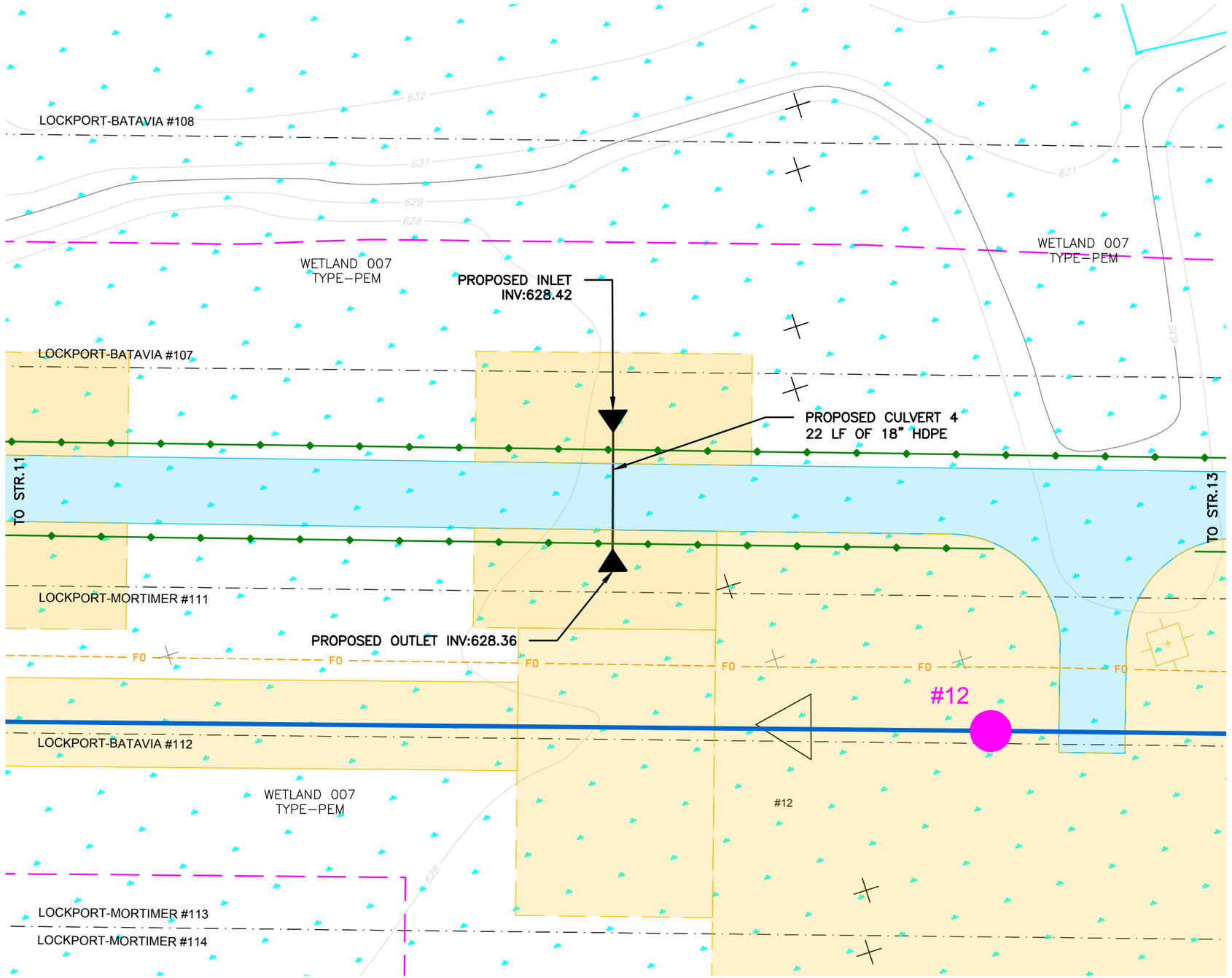

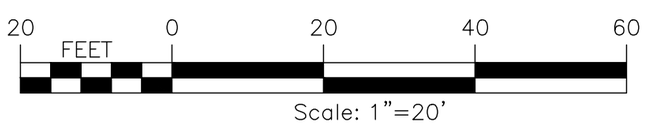

NOTES:

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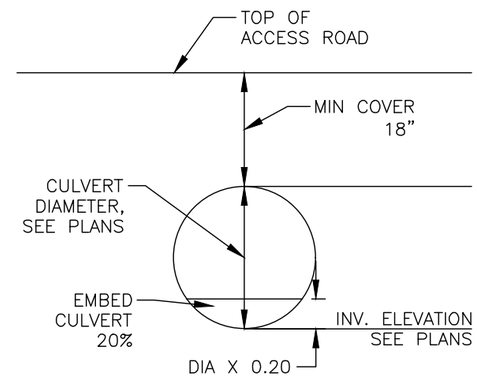
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP–05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-13

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 007 TYPE-PEM CULVERT

nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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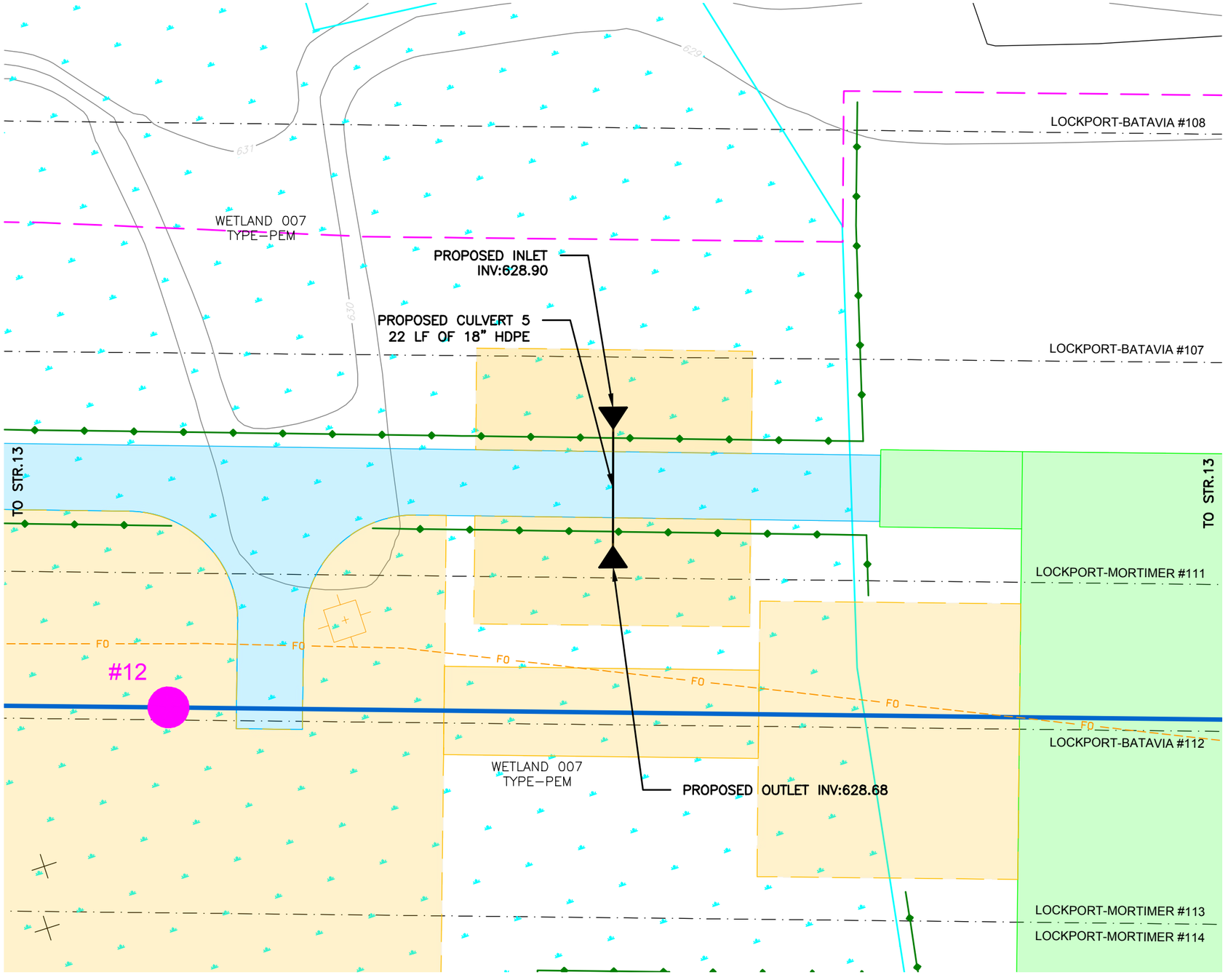

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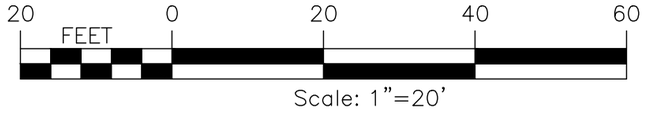
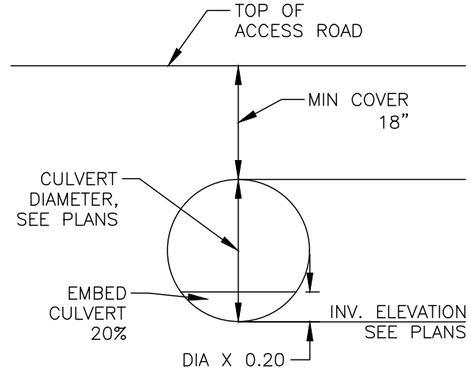
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.





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CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 007 TYPE-PEM CULVERT

ORIGINAL ISSUE DATE: 6/06/25
R.E. INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-14

nationalgrid

PREPARED BY
DES. H.P
APPROVED
DR. FISHER
APPROVED
CK. RW/VL
APPROVED
RW/VL
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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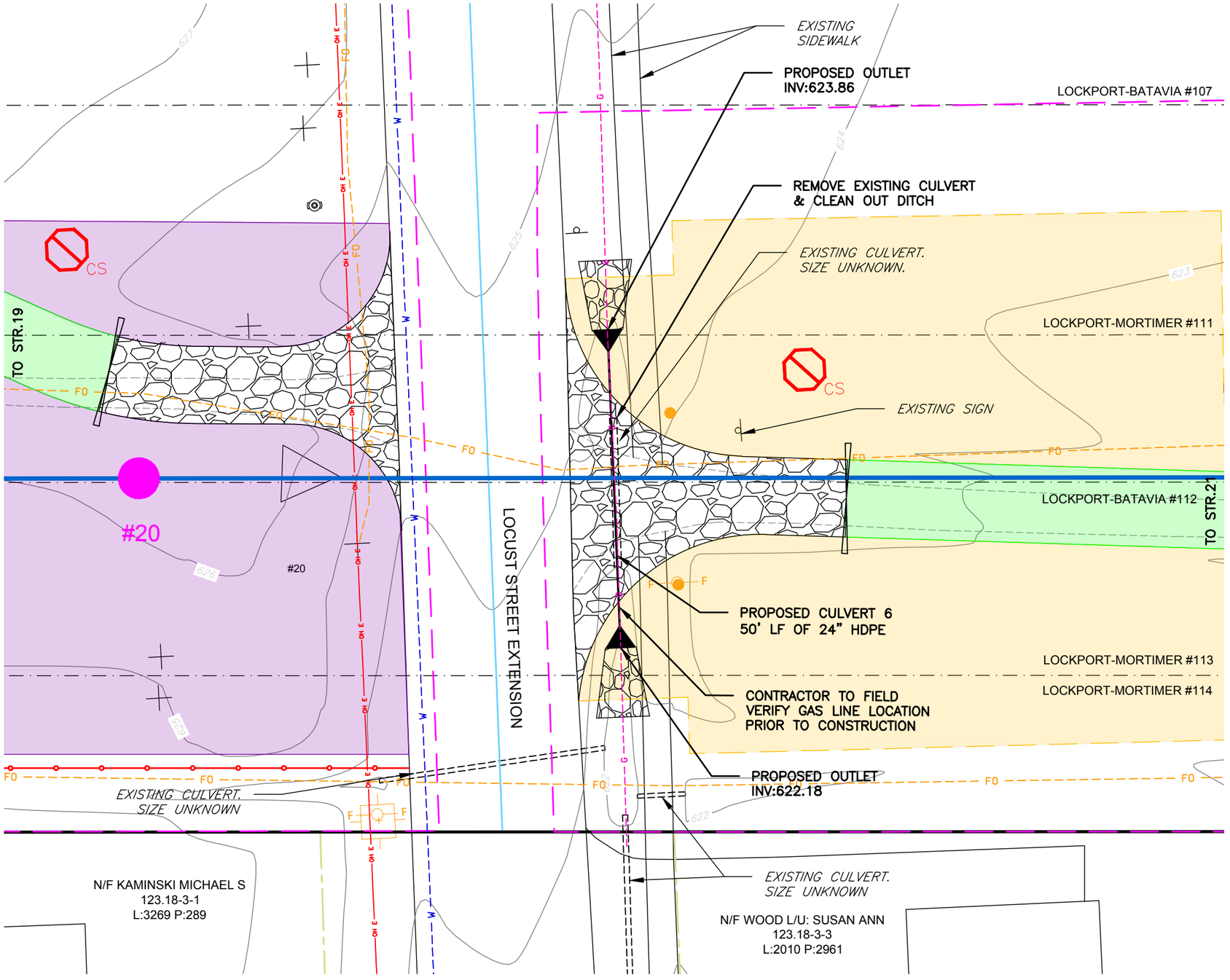
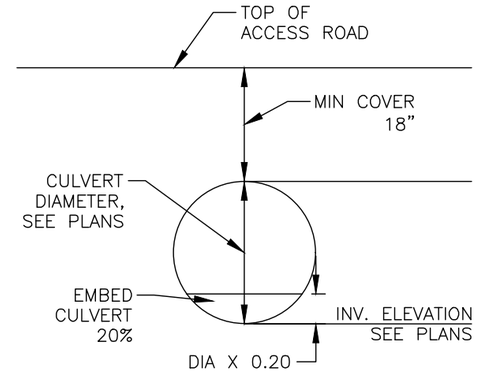


20 0 20 40 60
FEET
Scale: 1"=20'

NOTES:
1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING CULVERT, SIZE UNKNOWN.
4. INSTALL 24" DIA. 50' HDPE CULVERT AND END SECTIONS.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-15

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
24" ACCESS CULVERT - LOCUST STREET EXT.

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY: nationalgrid
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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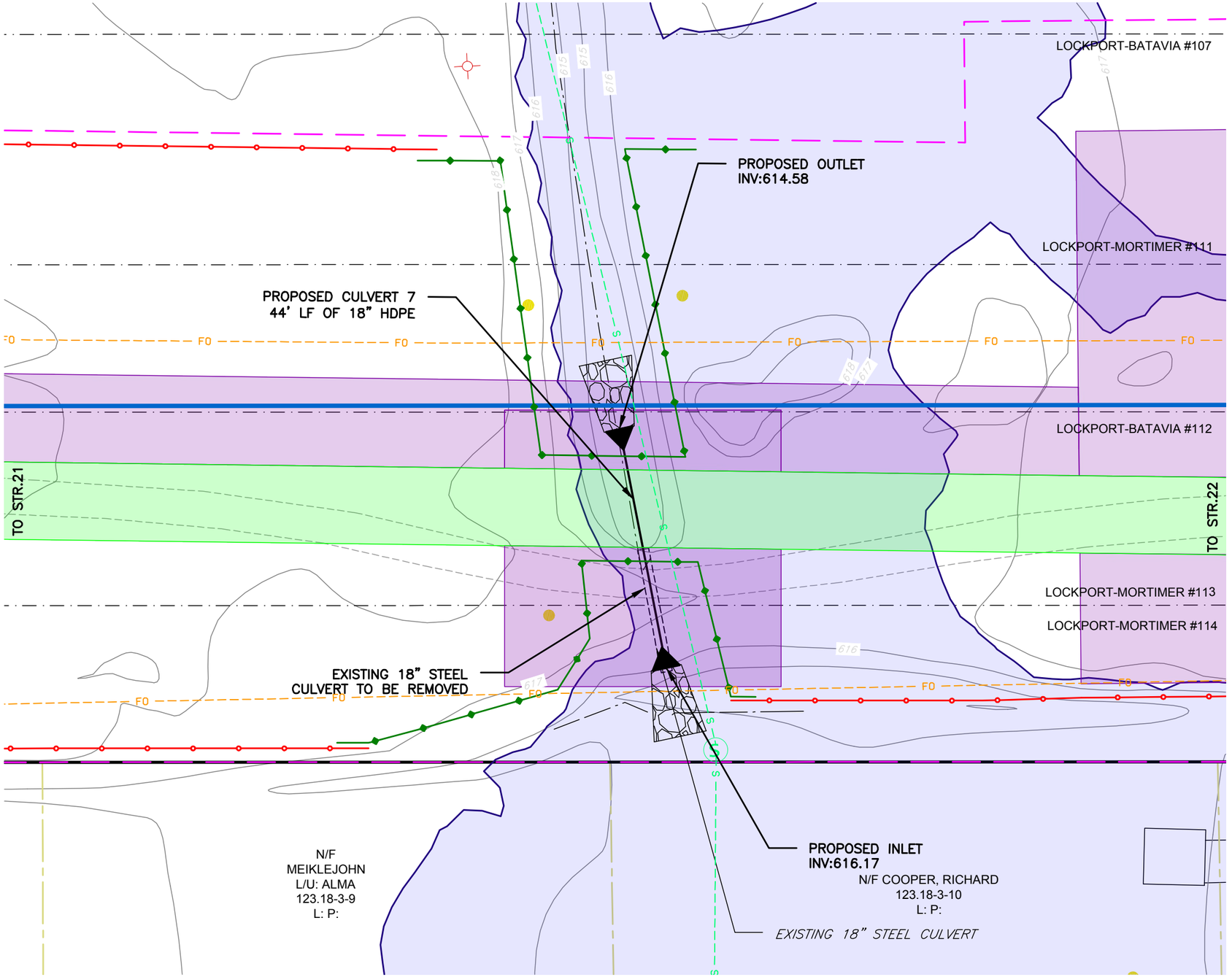
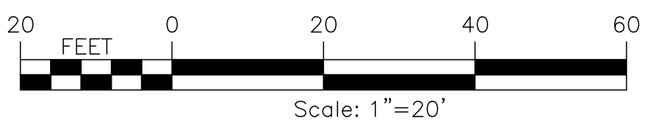
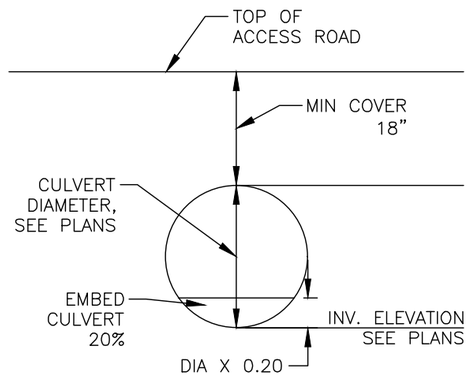




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 18" DIA. 12' STEEL CULVERT.
4. INSTALL 18" DIA. 44' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
AS-E INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-16

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" PROPOSED CULVERT

nationalgrid

PREPARED BY
ACCOUNT NUMBER

DES.	APPROVED H.P	DR. APPROVED FISHER	CK. APPROVED RW/VL
			APPROVED RW/VL

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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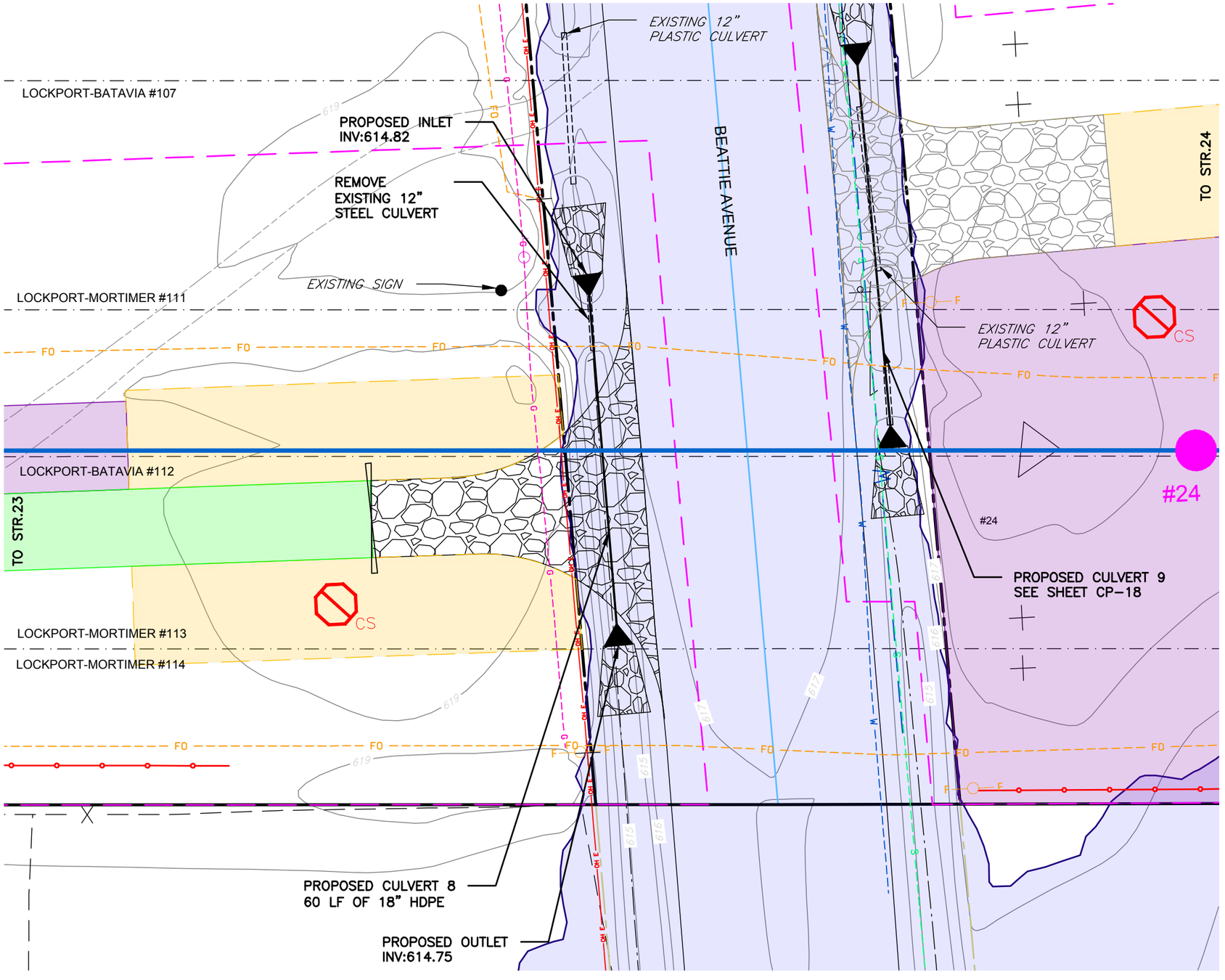
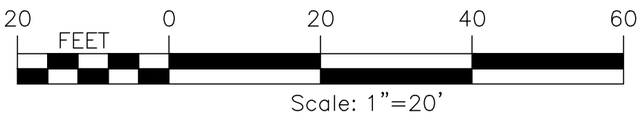
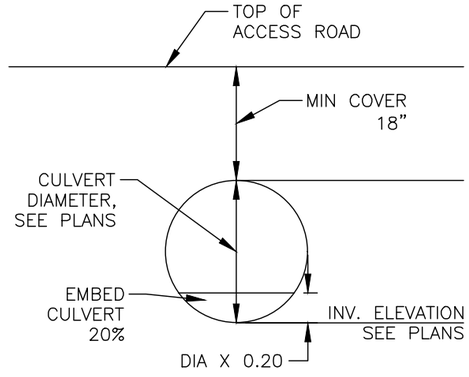


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 12" DIA. 12.5' PLASTIC CULVERT.
4. INSTALL 18" DIA. 60' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.





ORIGINAL ISSUE DATE	6/06/25
AS-E INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-17

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - BEATTIE AVENUE

nationalgrid

PREPARED BY		ACCOUNT NUMBER
DES.	APPROVED H.P	
DR.	APPROVED FISHER	
CK.	APPROVED RW/VL	
	APPROVED RW/VL	

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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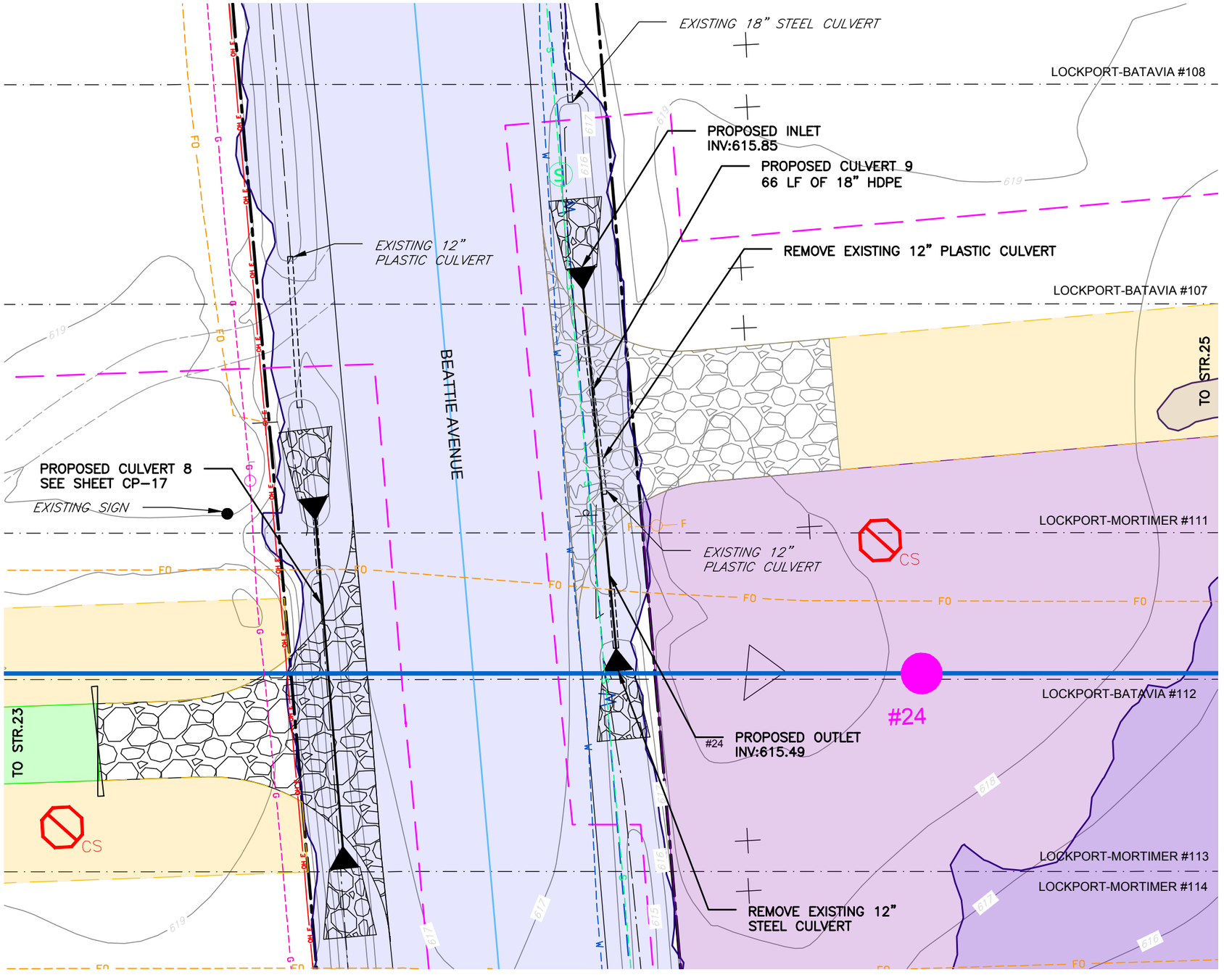
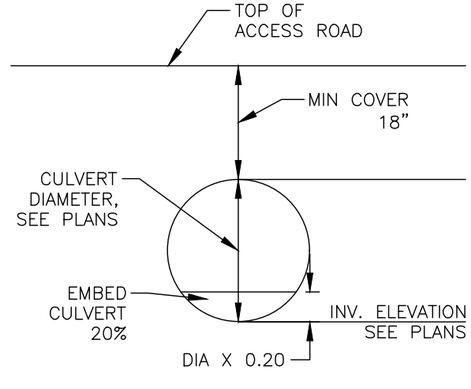


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 12" DIA. 12' PLASTIC CULVERT.
4. INSTALL 18" DIA. 66' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-18

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - BEATTIE AVENUE

nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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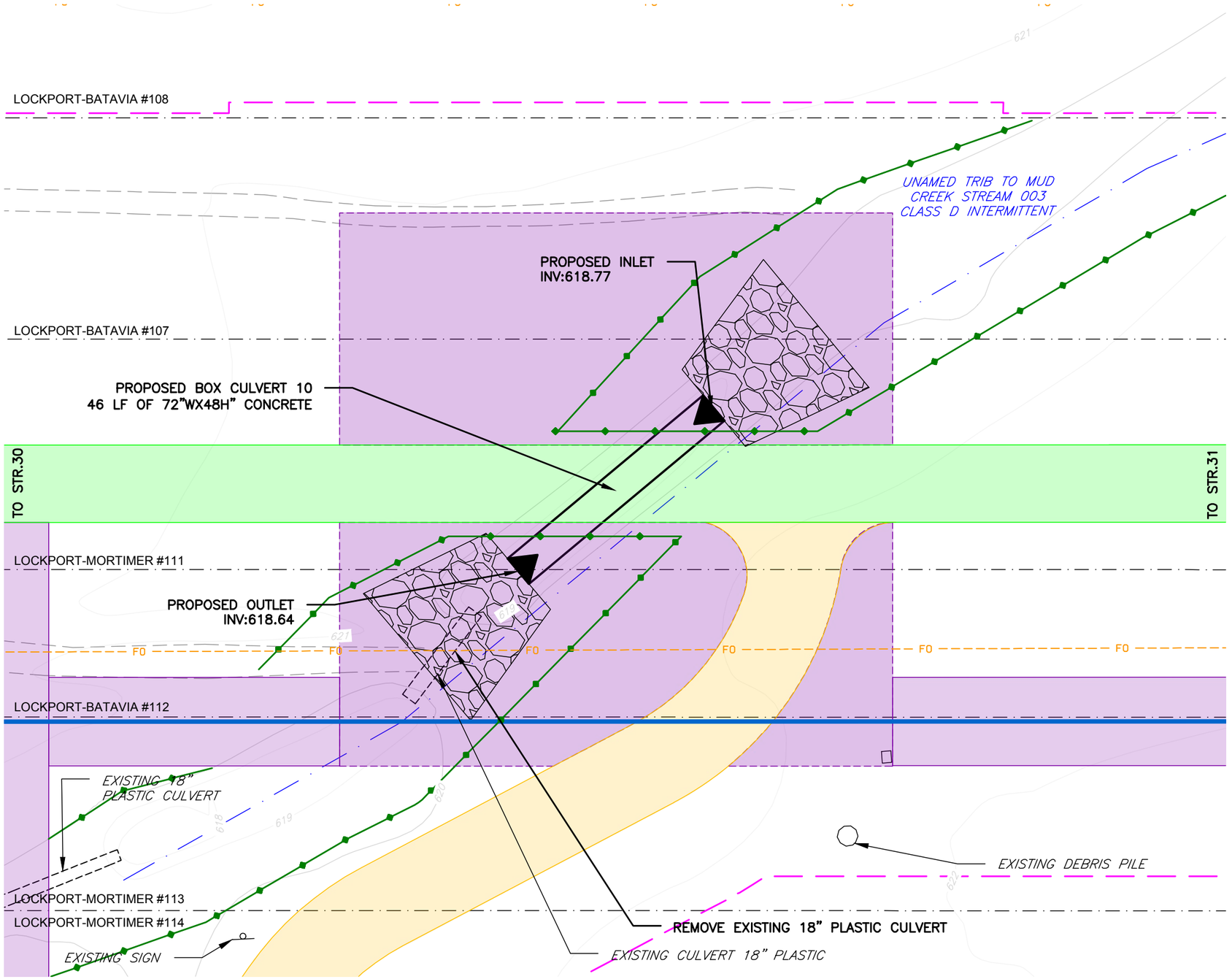
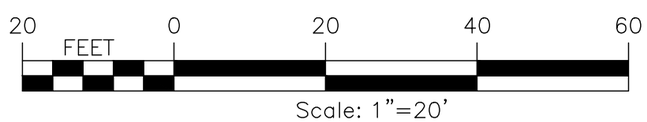
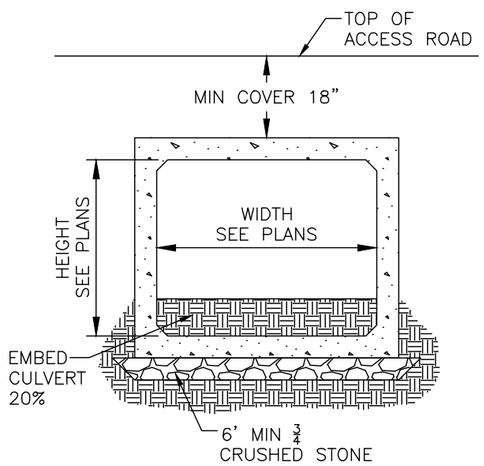


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 18" DIA. 20' PLASTIC CULVERT.
4. INSTALL 72"WX48"H DIA. 46' CONCRETE BOX CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.





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ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-19

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
NYSDEC STREAM 003 CROSSING CULVERT

DES.	H.P	APPROVED
DR.	FISHER	APPROVED
CK.	RW/VL	APPROVED
	RW/VL	APPROVED

PREPARED BY: nationalgrid
ACCOUNT NUMBER

NO.	DESCRIPTION OF ISSUE OR REVISION	DATE	DR.	CK.	APP.

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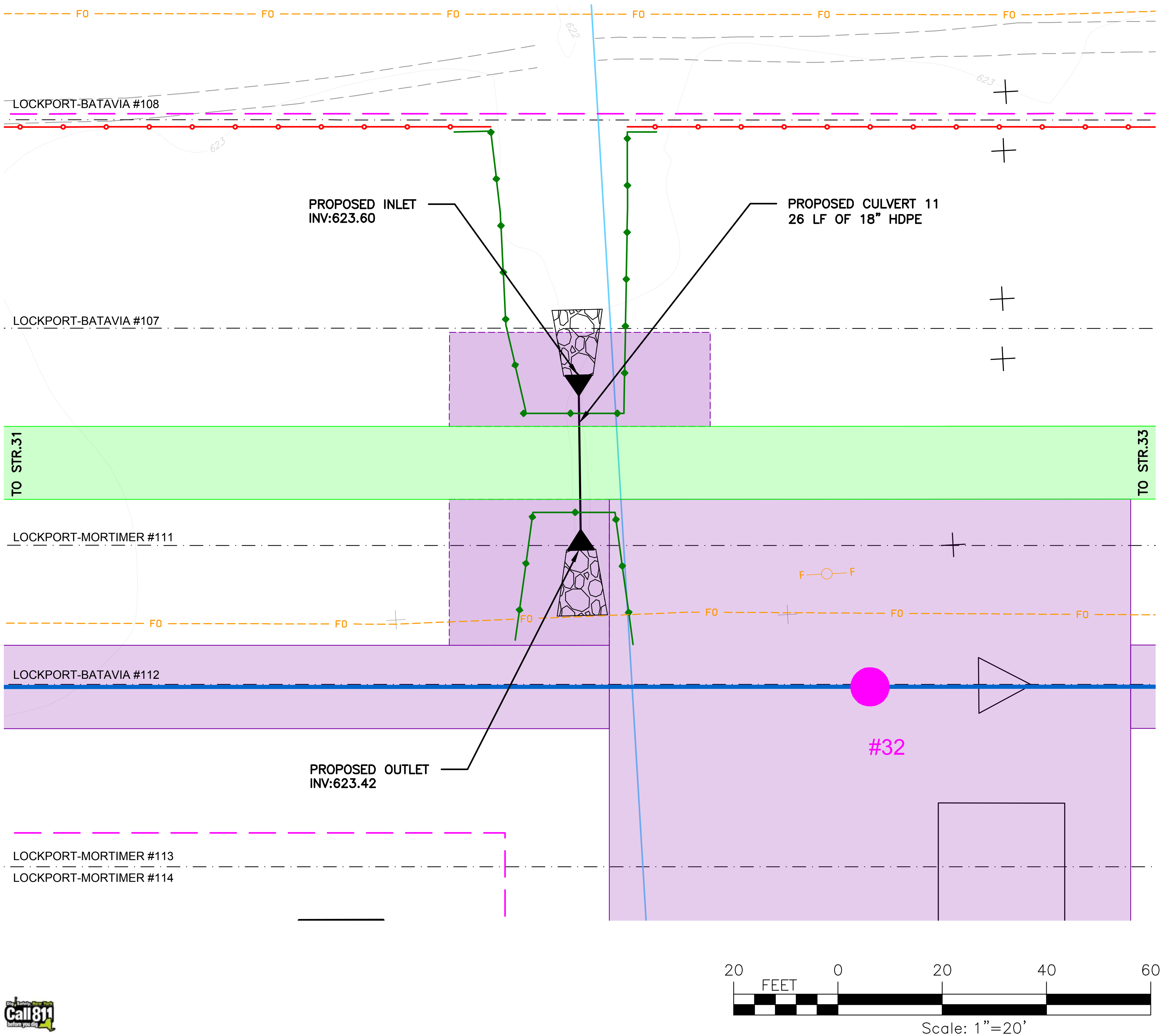
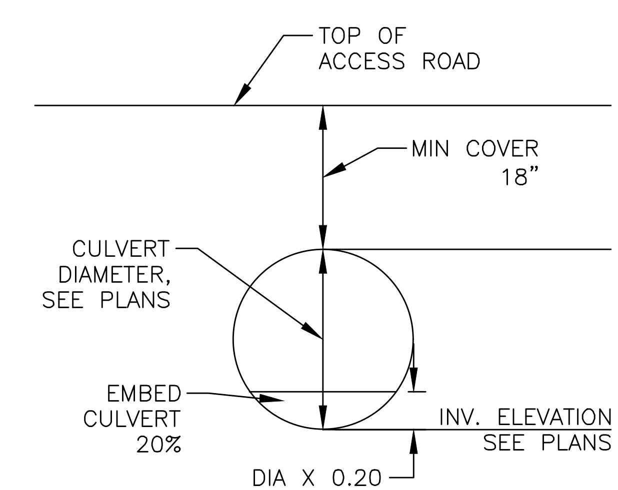


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 26' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP–05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" PROPOSED CULVERT

ORIGINAL ISSUE DATE	6/06/25
FILE INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-20

nationalgrid

DES.	H.P	APPROVED	
DR.	FISHER	APPROVED	RWVL
CK.		APPROVED	RWVL

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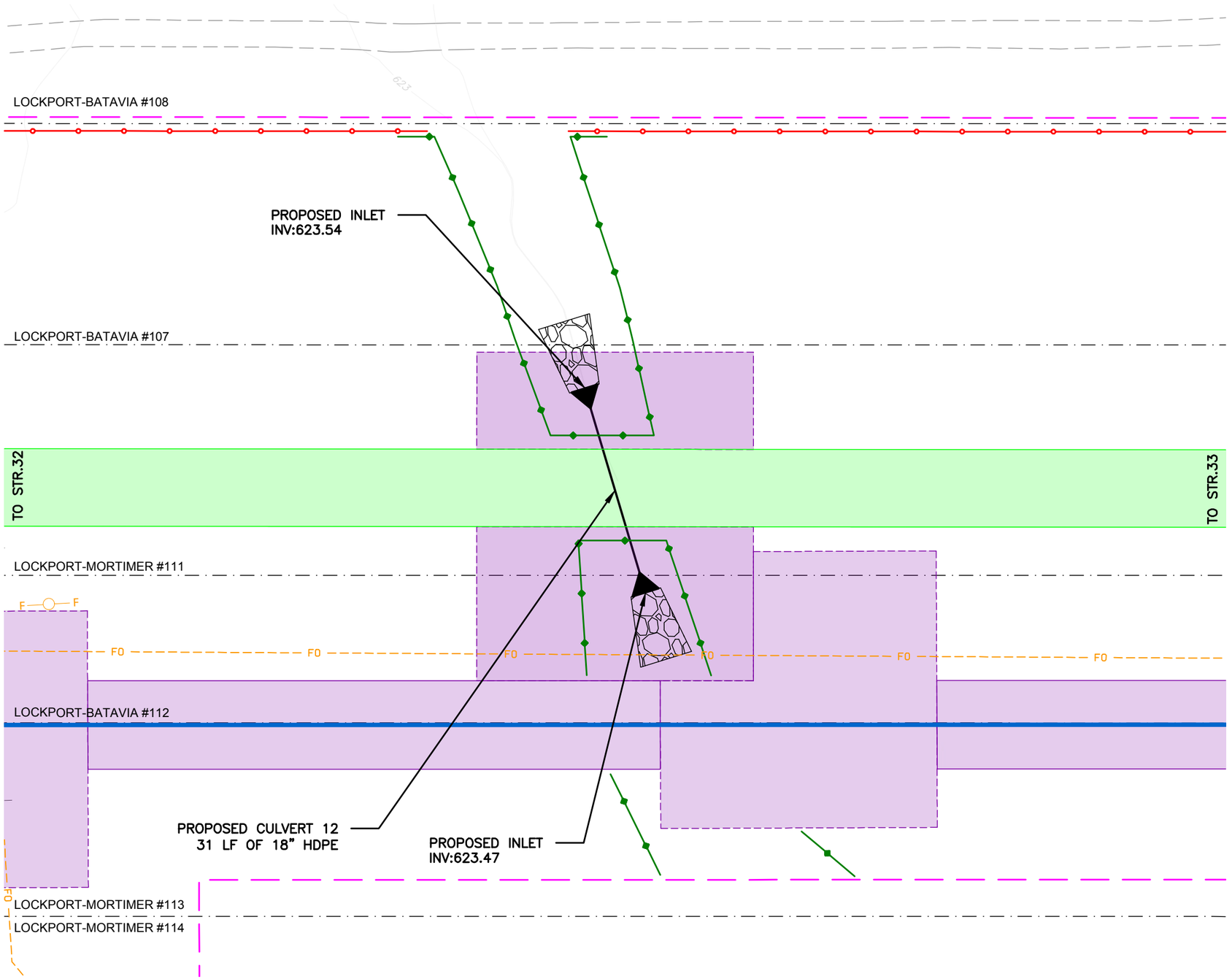
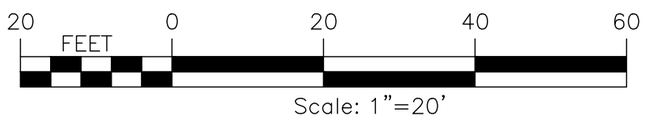
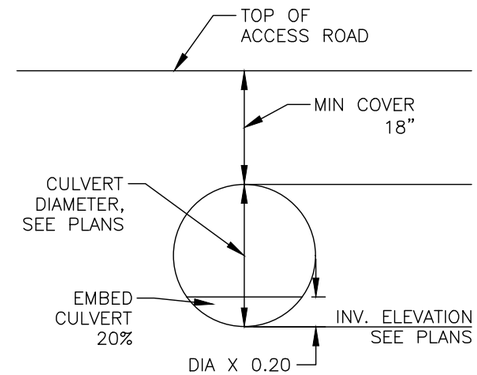




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 31' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



CULVERT PLAN	
LOCKPORT-BATAVIA 112	
REBUILD PROJECT	
18" PROPOSED CULVERT	
ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-21

PREPARED BY: nationalgrid

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RWVL	
	APPROVED	RWVL	

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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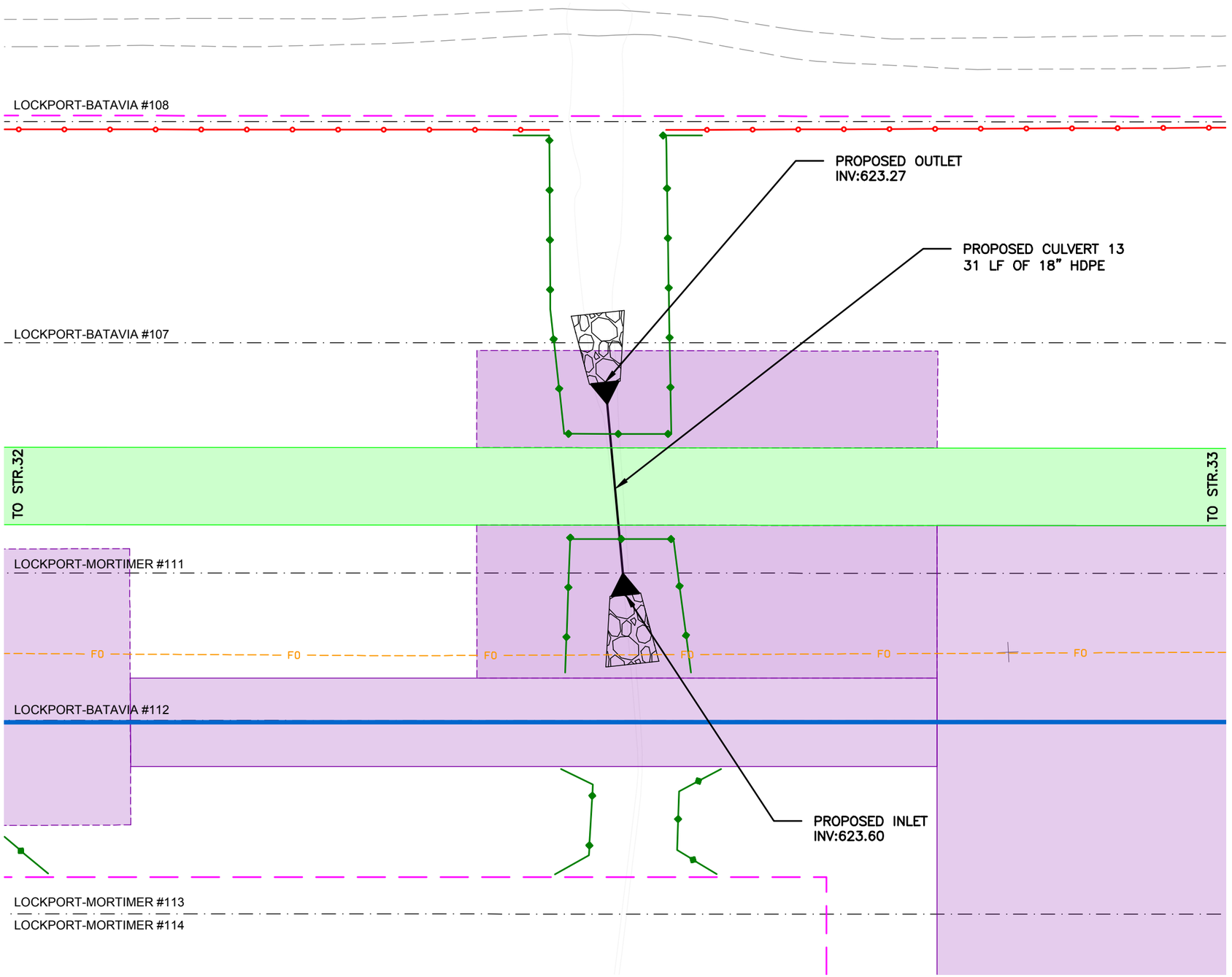
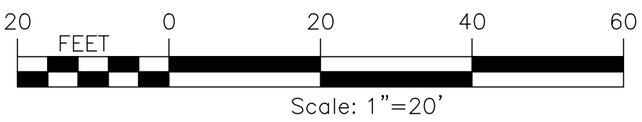
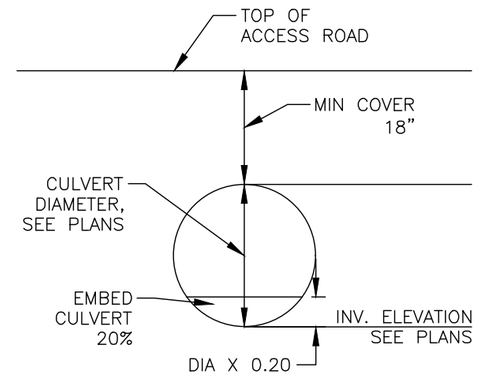




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 31' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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ORIGINAL ISSUE DATE	6/06/25
AS-E INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-22

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" PROPOSED CULVERT

nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RWVL
	APPROVED	RWVL

PREPARED BY
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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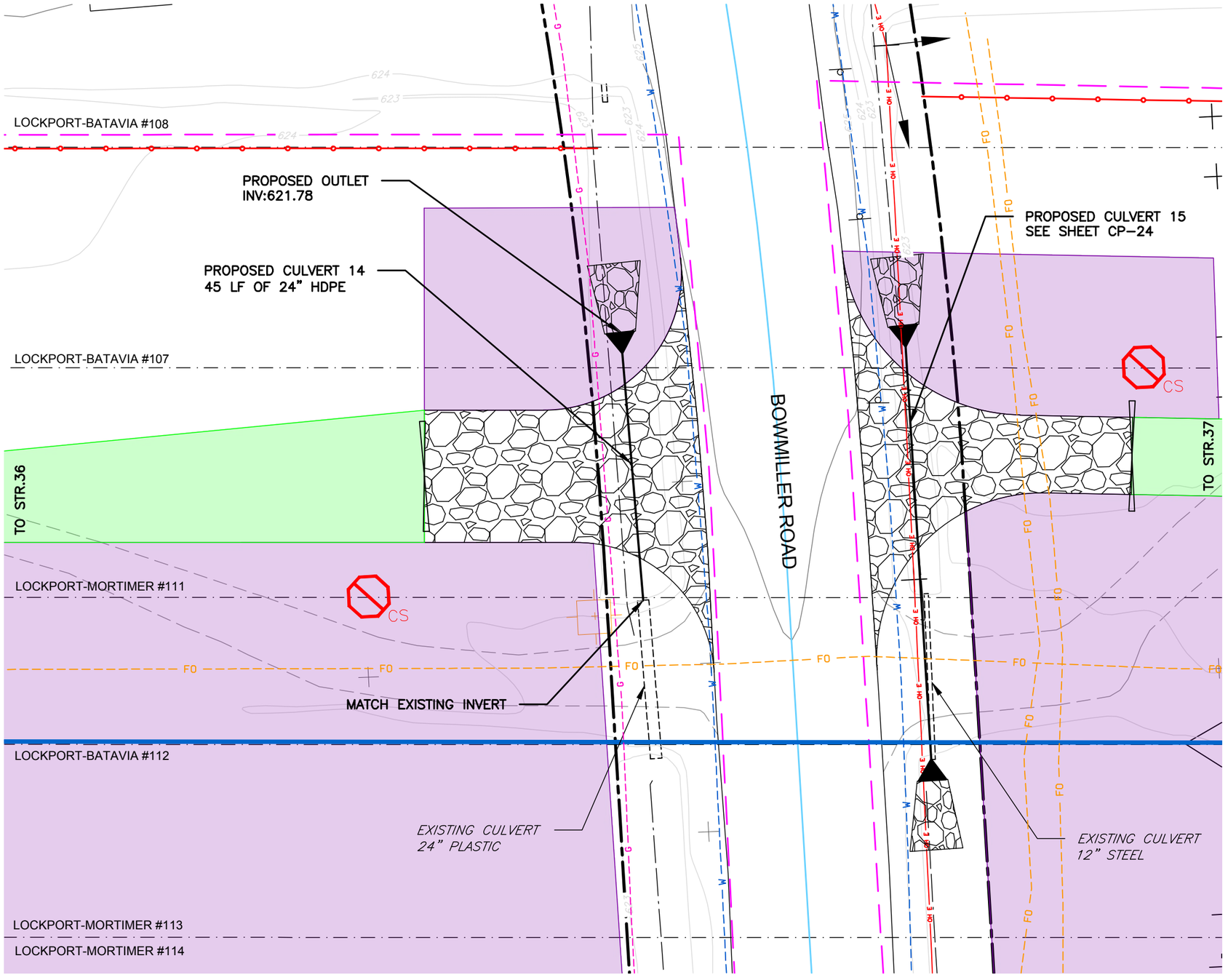
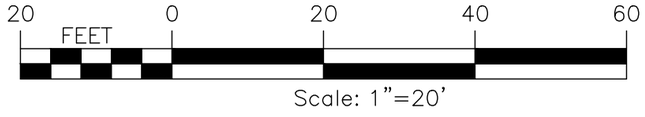
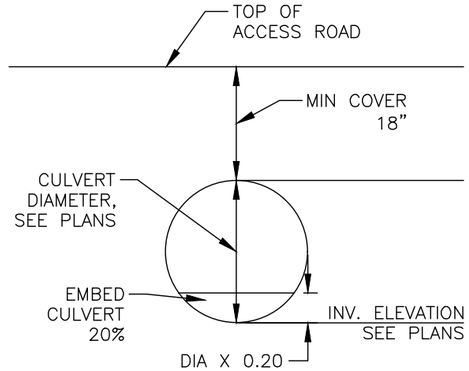




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. CONTRACTOR TO VERIFY EXISTING CULVERT SIZE AND EITHER (1) EXTEND EXISTING CULVERT OR (2) REMOVE EXISTING CULVERT AND INSTALL NEW CULVERT.
4. FOR CULVERT EXTENSION: INSTALL 24" DIA. 45' HDPE CULVERT, FOR CULVERT REPLACEMENT INSTALL 24" DIA. 56' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-23

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
24" ACCESS CULVERT - BOWMILLER ROAD

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RWVL
	APPROVED	RWVL

PREPARED BY: nationalgrid
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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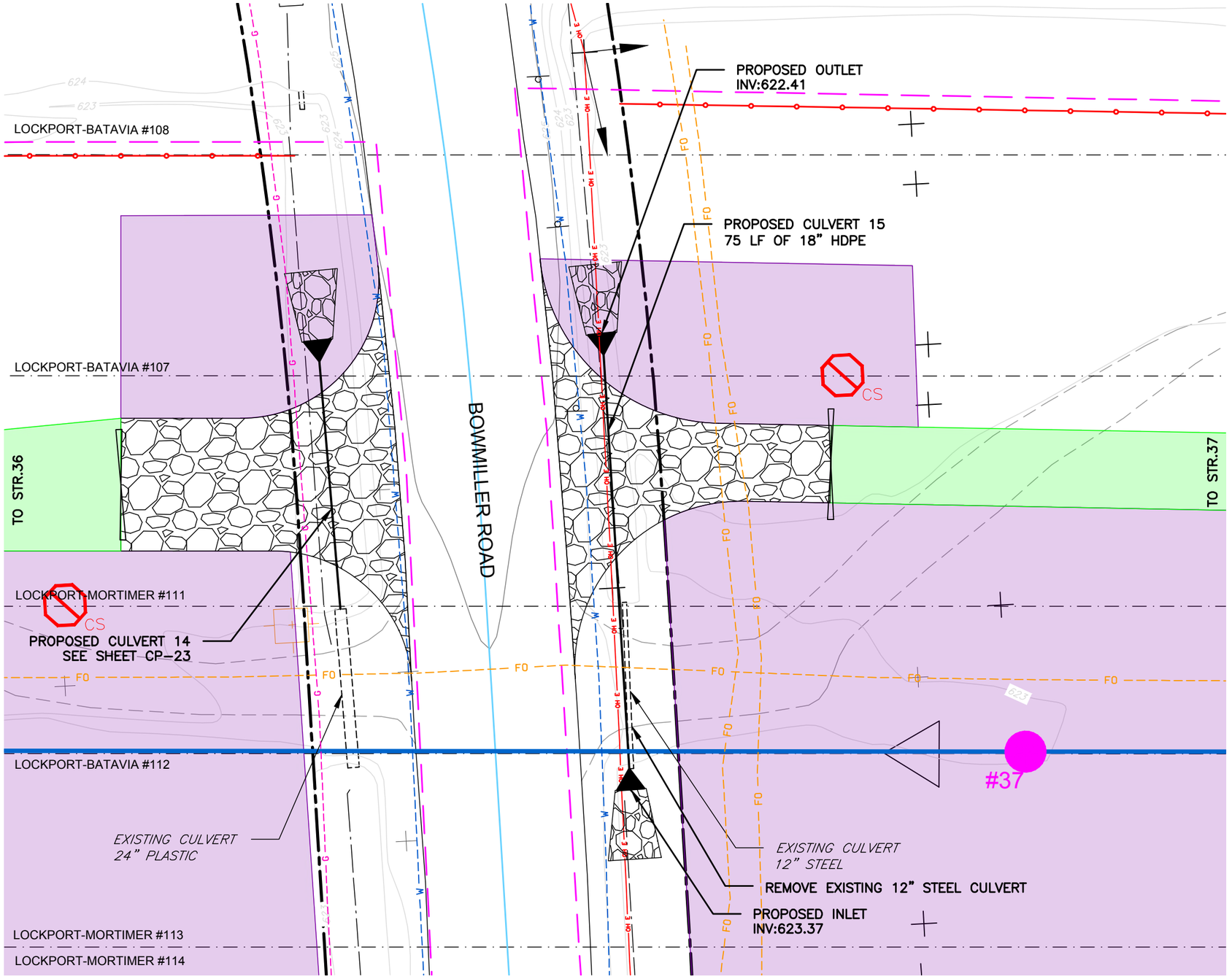
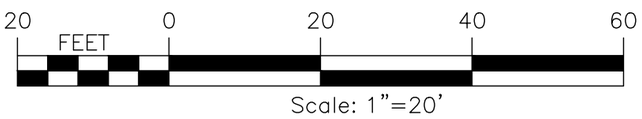
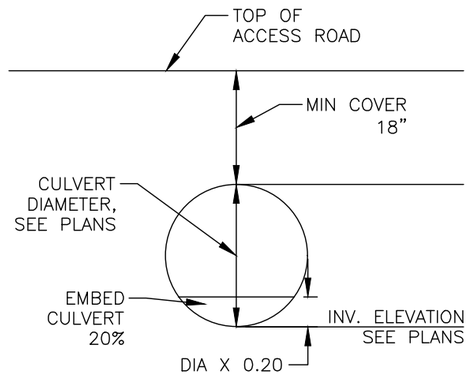


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 12" DIA. 13' STEEL CULVERT.
4. INSTALL 18" DIA. 75' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.





ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-24

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - BOWMILLER ROAD

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RWVL
	APPROVED	RWVL

PREPARED BY: nationalgrid
ACCOUNT NUMBER:

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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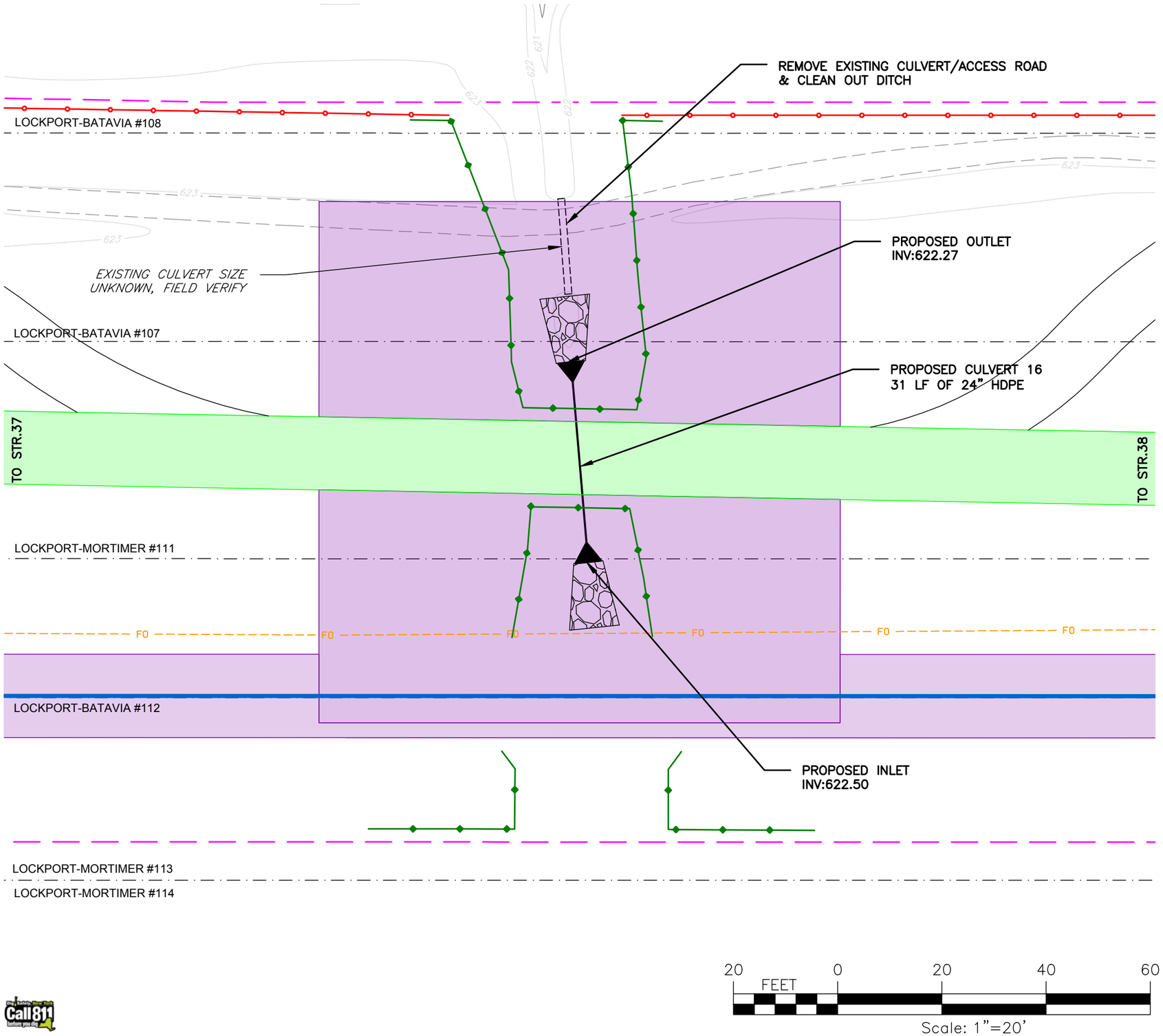
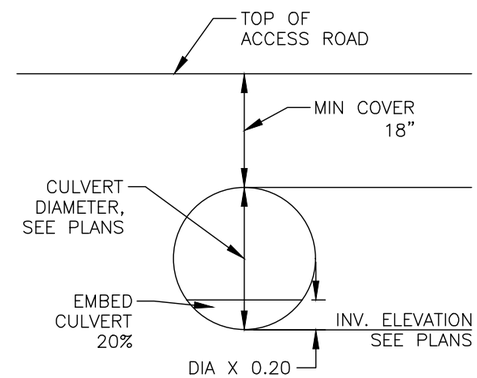


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING CULVERT, SIZE UNKNOWN.
4. INSTALL 24" DIA. 31' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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ORIGINAL ISSUE DATE	6/06/25
KEY INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-25

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" PROPOSED CULVERT

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY: nationalgrid
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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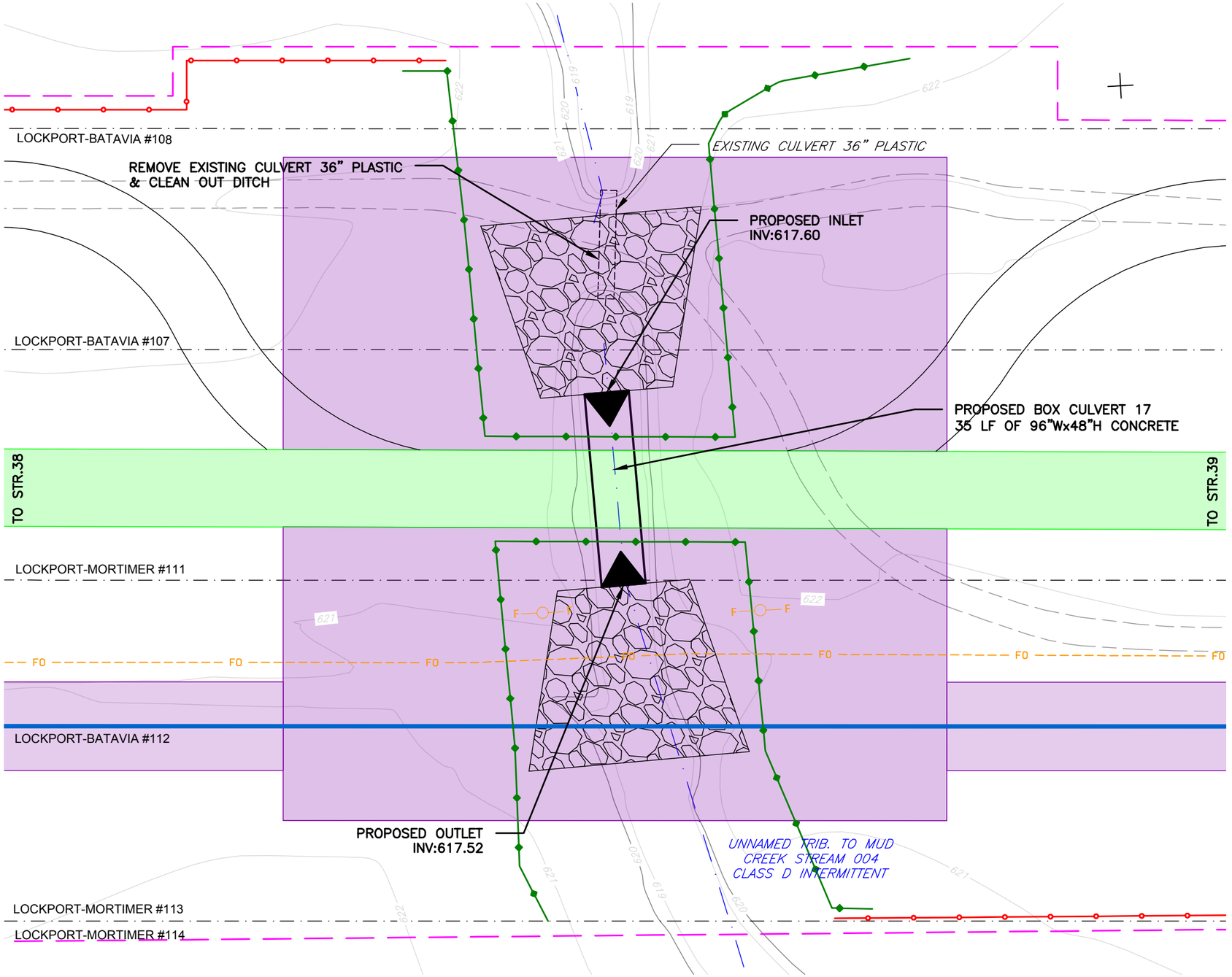
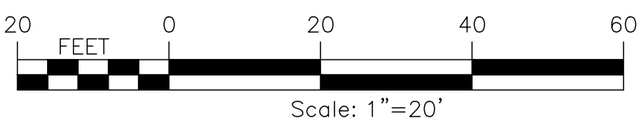
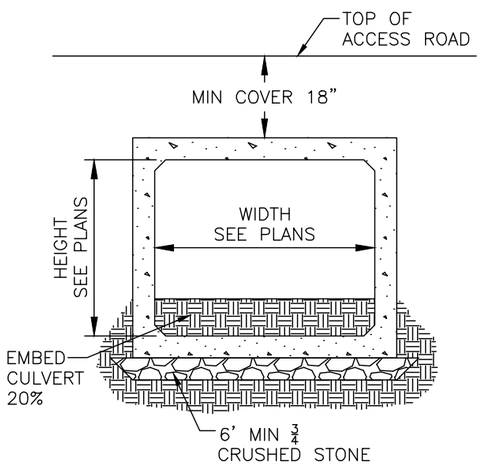




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 36" DIA. 9.5' PLASTIC CULVERT.
4. INSTALL 96"Wx48"H DIA. 35' CONCRETE BOX CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
NYSDEC STREAM 004 CROSSING CULVERT

ORIGINAL ISSUE DATE 6/06/25
R.E. INDEX 6.1-L10-M5
DRAWING NUMBER L1-41568
SHEET NUMBER CP-26

DES. H.P APPROVED
DR. FISHER APPROVED
CK. RW/VL APPROVED
RW/VL APPROVED

PREPARED BY nationalgrid
ACCOUNT NUMBER

NO. DATE DESCRIPTION OF ISSUE OR REVISION APP. CK. DR.

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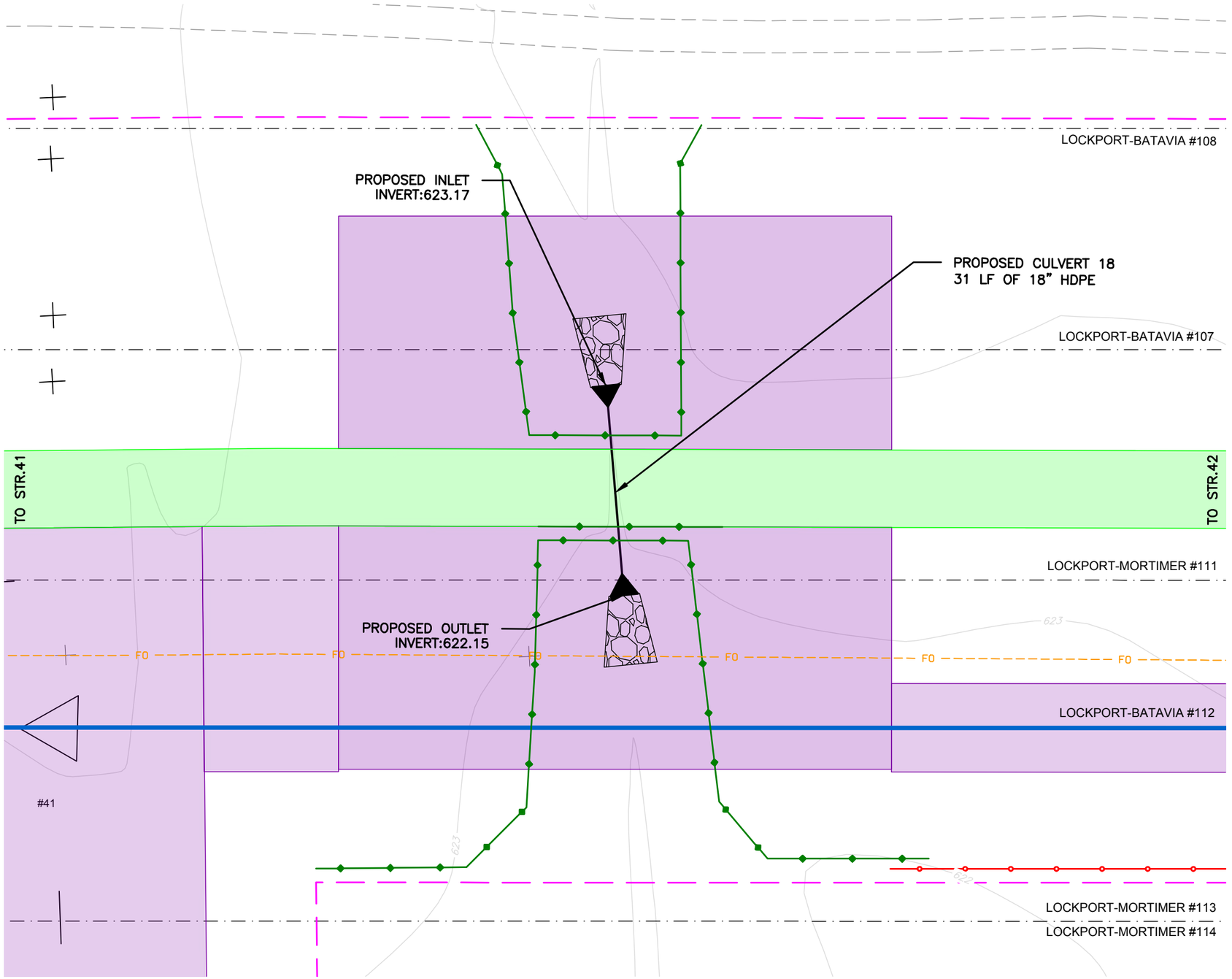
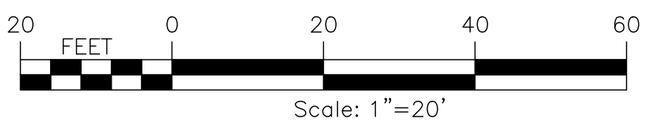
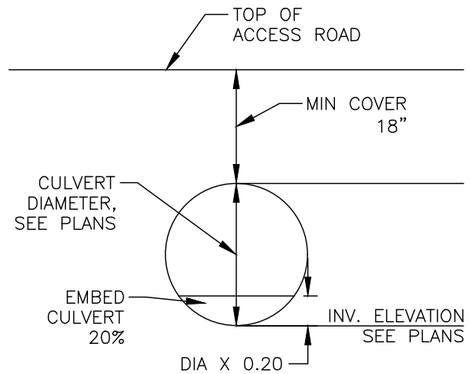




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 31' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP–05 FOR LEGEND INFORMATION.



CULVERT PLAN	
LOCKPORT-BATAVIA 112	
REBUILD PROJECT	
18" PROPOSED CULVERT	
ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-27

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RW/VL	
	APPROVED	RW/VL	

PREPARED BY: nationalgrid — ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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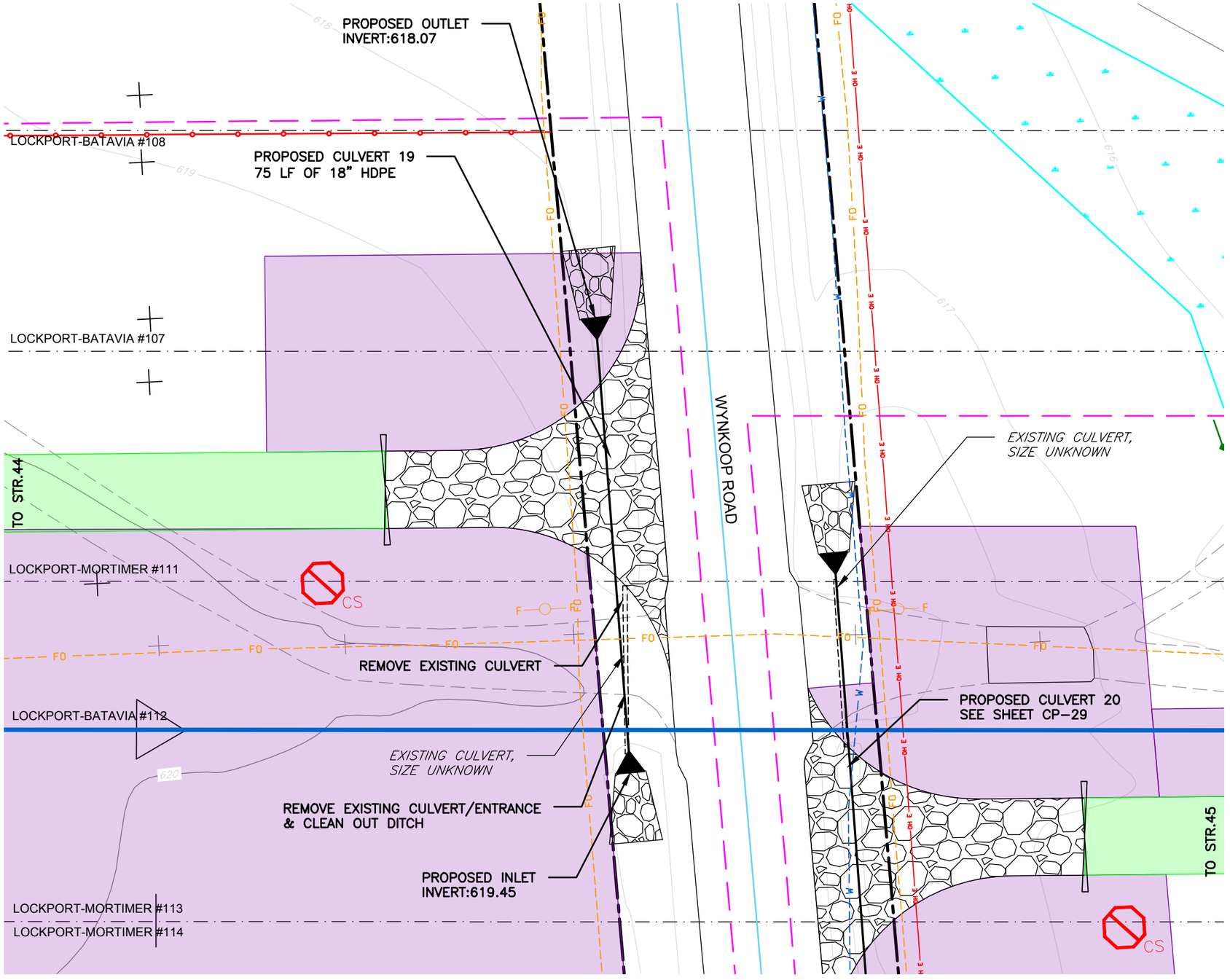

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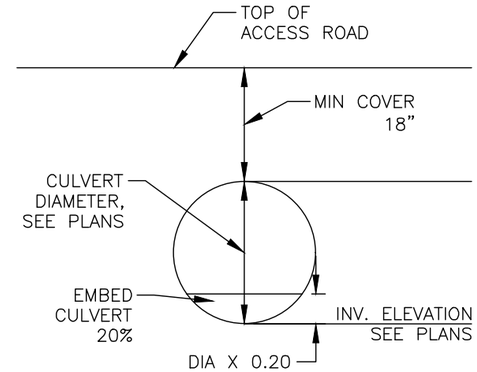
FEET
Scale: 1"=20'

NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING CULVERT, SIZE UNKNOWN.
4. INSTALL 18" DIA. 75' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - WYNKOOP ROAD

ORIGINAL ISSUE DATE: 6/06/25
K.E. INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-28

PREPARED BY: nationalgrid
ACCOUNT NUMBER:

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RW/VL	
	APPROVED	RW/VL	

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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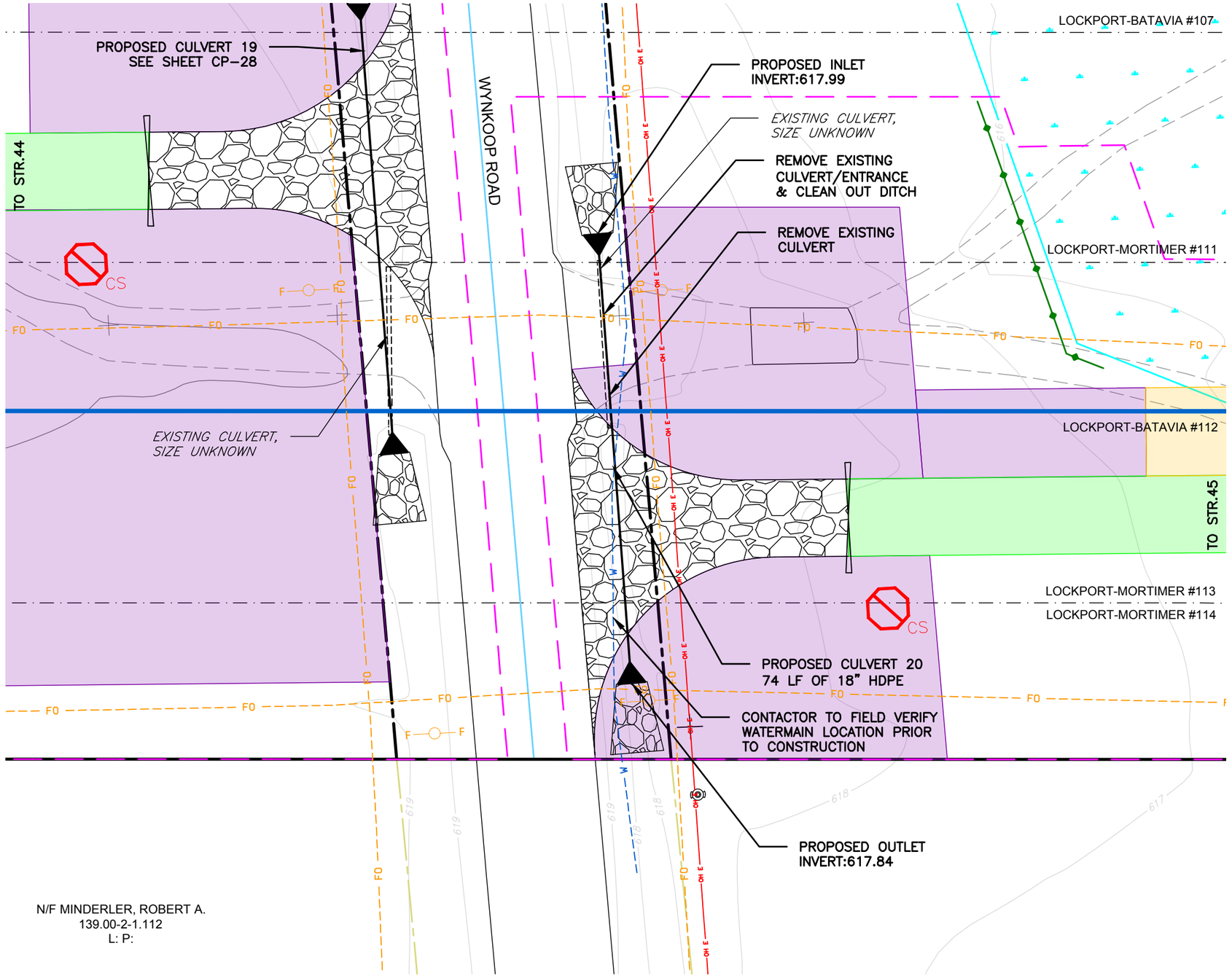
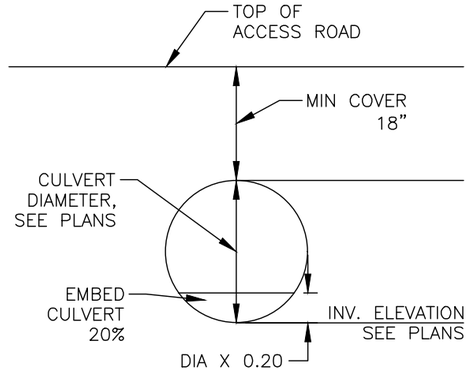


N/F MINDERLER, ROBERT A.
139.00-2-1.112
L: P:

20 FEET 0 20 40 60
Scale: 1"=20'

NOTES:
1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING CULVERT, SIZE UNKNOWN.
4. INSTALL 18" DIA. 74' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-29

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - WYNKOOP ROAD

PREPARED BY: nationalgrid

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RWVL	
	APPROVED	RWVL	

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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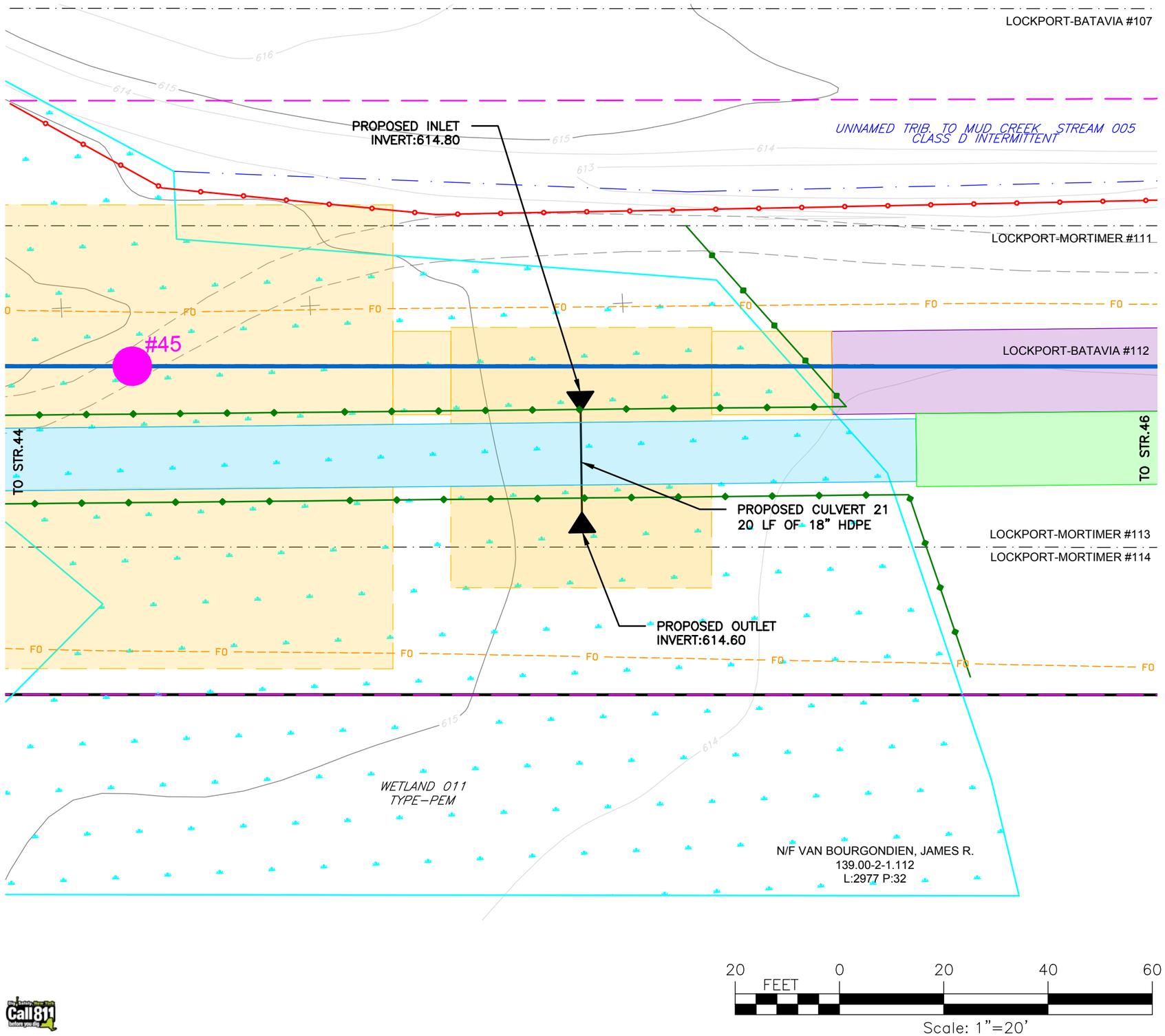
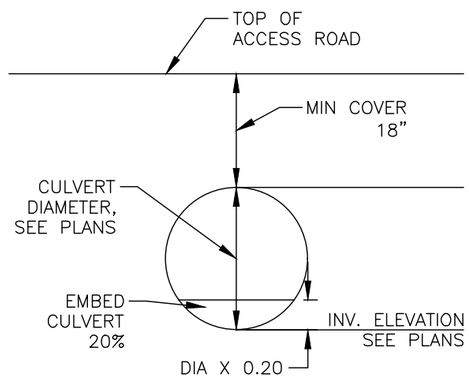


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 20' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP–05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
LAST REVISION INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-30

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 011 TYPE-PEM CULVERT

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RWVL
	APPROVED	RWVL

PREPARED BY: nationalgrid
ACCOUNT NUMBER

NO.	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.	DATE

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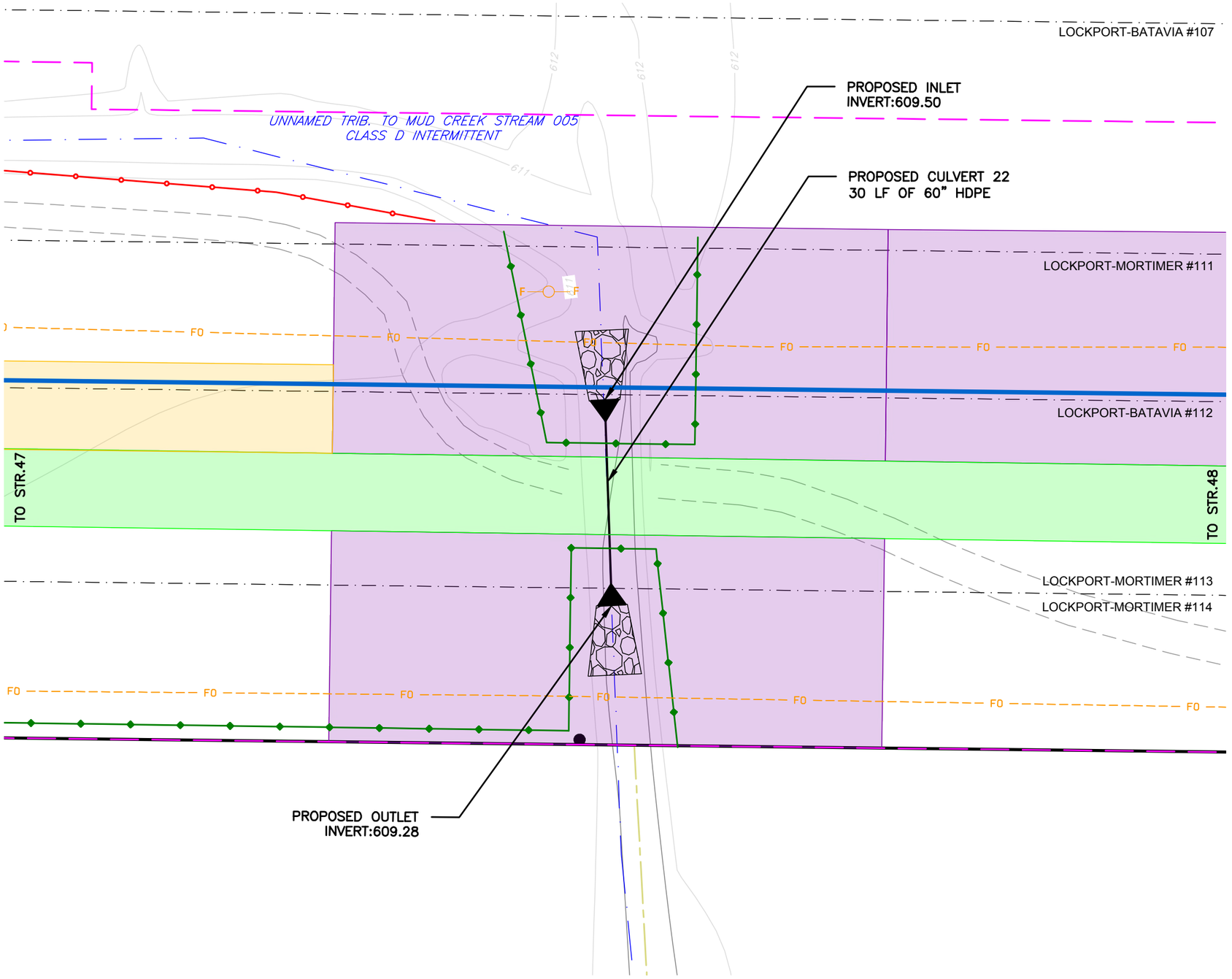
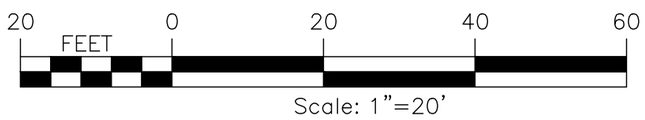
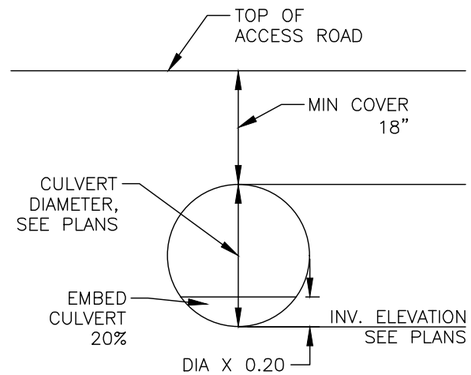




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 60" DIA. 30' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
SEE INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-31

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
NYSDEC STREAM 005 CROSSING CULVERT

DSG.	H.P	DR.	FISHER	CK.
APPROVED		APPROVED	RW/VL	APPROVED
				RW/VL

PREPARED BY: nationalgrid ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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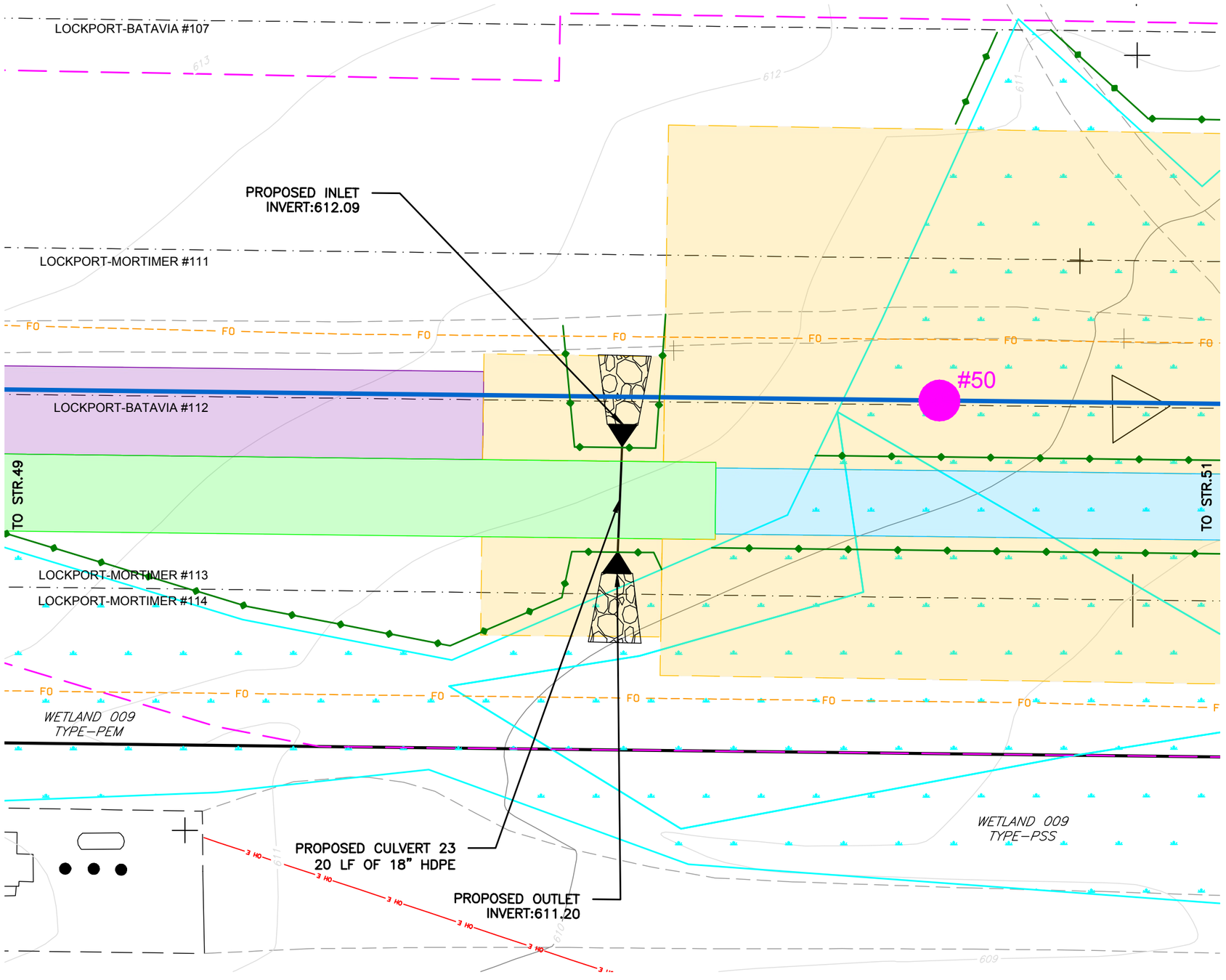
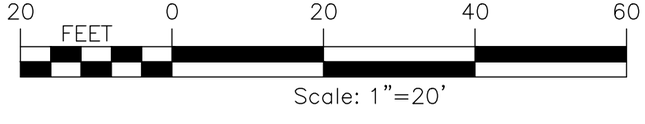
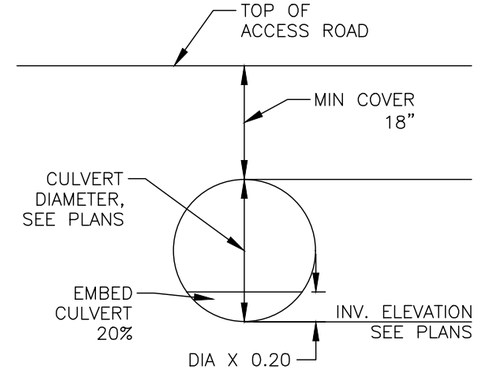




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 20' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP–05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-32

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 009 TYPE-PEM CULVERT

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY: nationalgrid ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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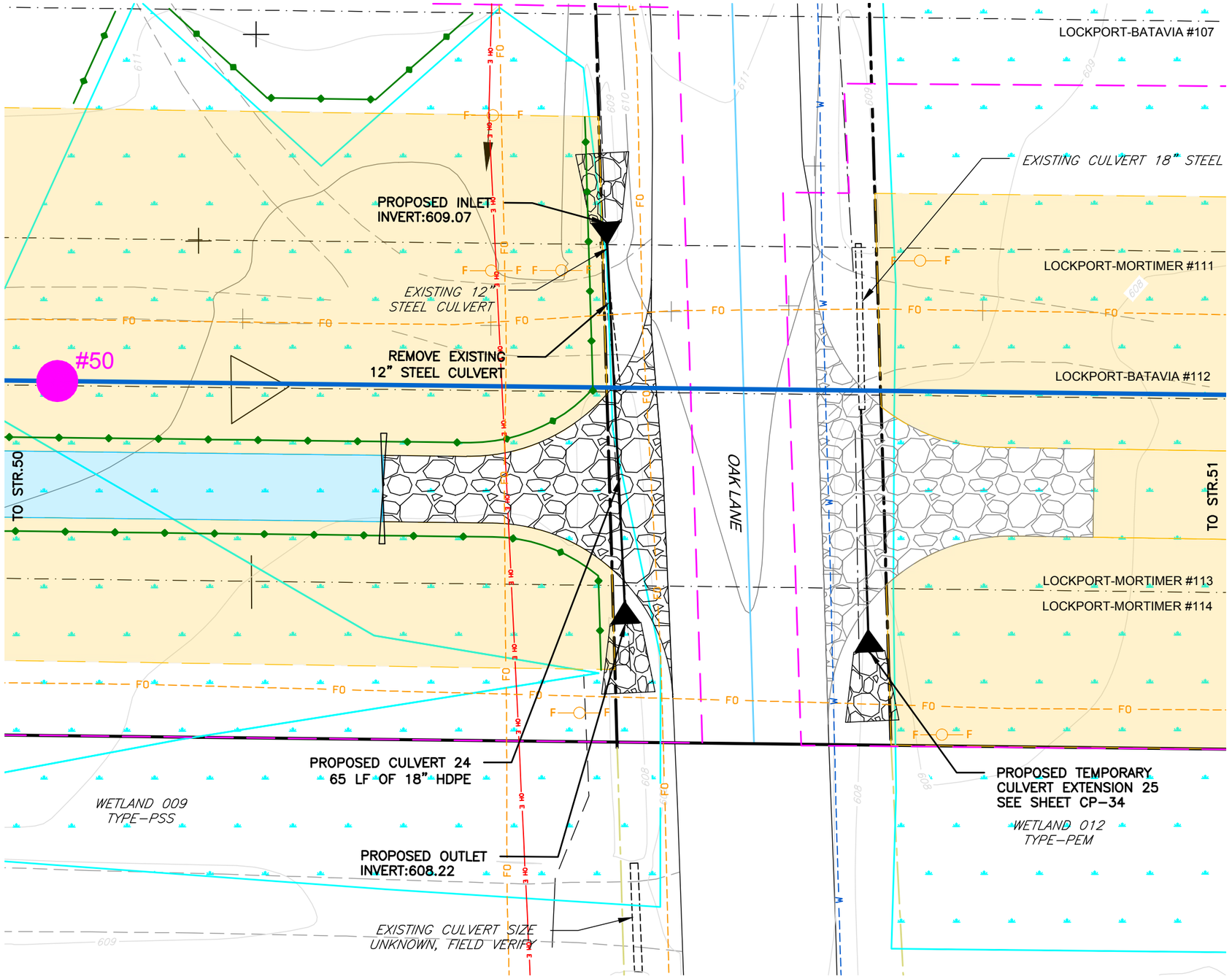
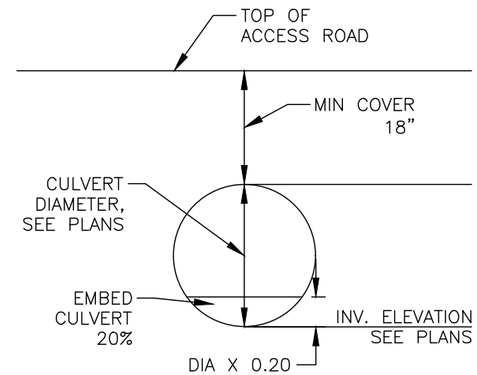


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 12" DIA. 13' STEEL CULVERT.
4. INSTALL 18" DIA. 65' HDPE CULVERT AND END SECTIONS.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-33

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 009 TYPE-PEM CULVERT - OAK LANE

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RWVL
	APPROVED	RWVL

PREPARED BY: nationalgrid
ACCOUNT NUMBER:

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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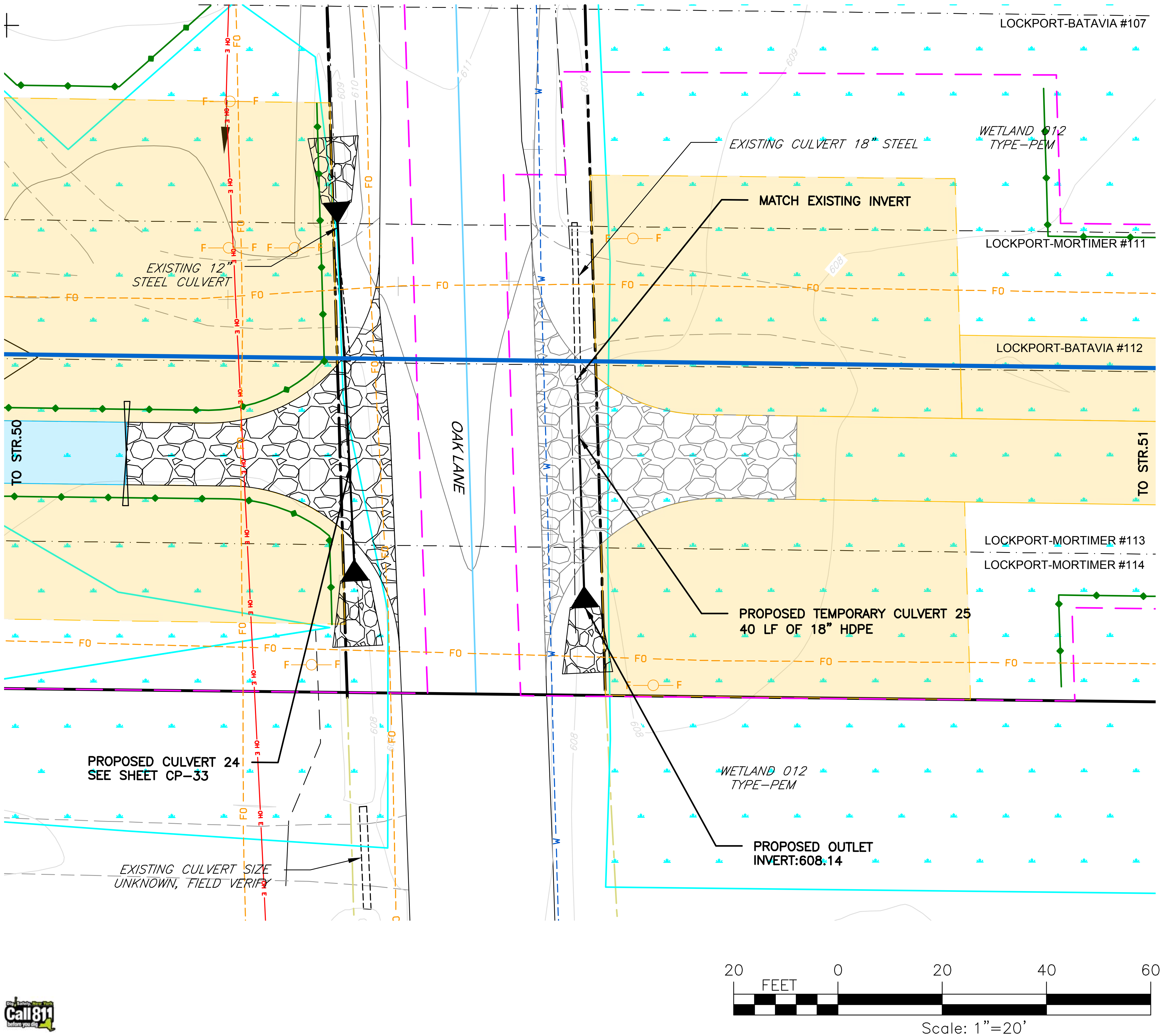
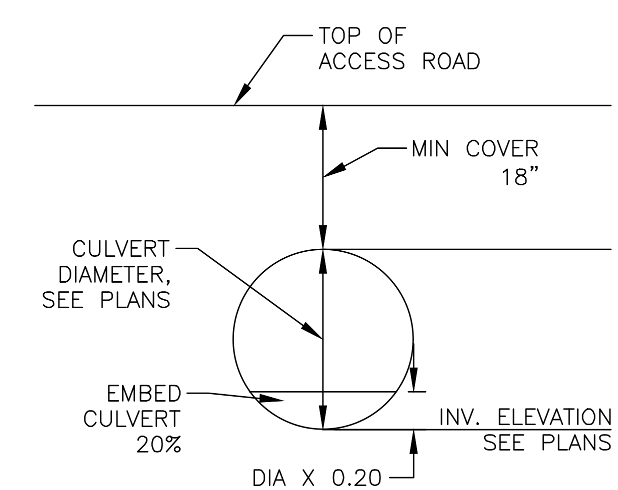


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. CONTRACTOR TO VERIFY EXISTING CULVERT SIZE AND EITHER (1) EXTEND EXISTING CULVERT OR (2) REMOVE EXISTING CULVERT AND INSTALL NEW CULVERT.
4. FOR CULVERT EXTENSION: INSTALL 18" DIA. 40' HDPE CULVERT, FOR CULVERT REPLACEMENT: INSTALL 18" DIA. 52' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP–05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
FILE INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-34

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 012 TYPE-PEM CULVERT - OAK LANE

PREPARED BY nationalgrid

ACCOUNT NUMBER

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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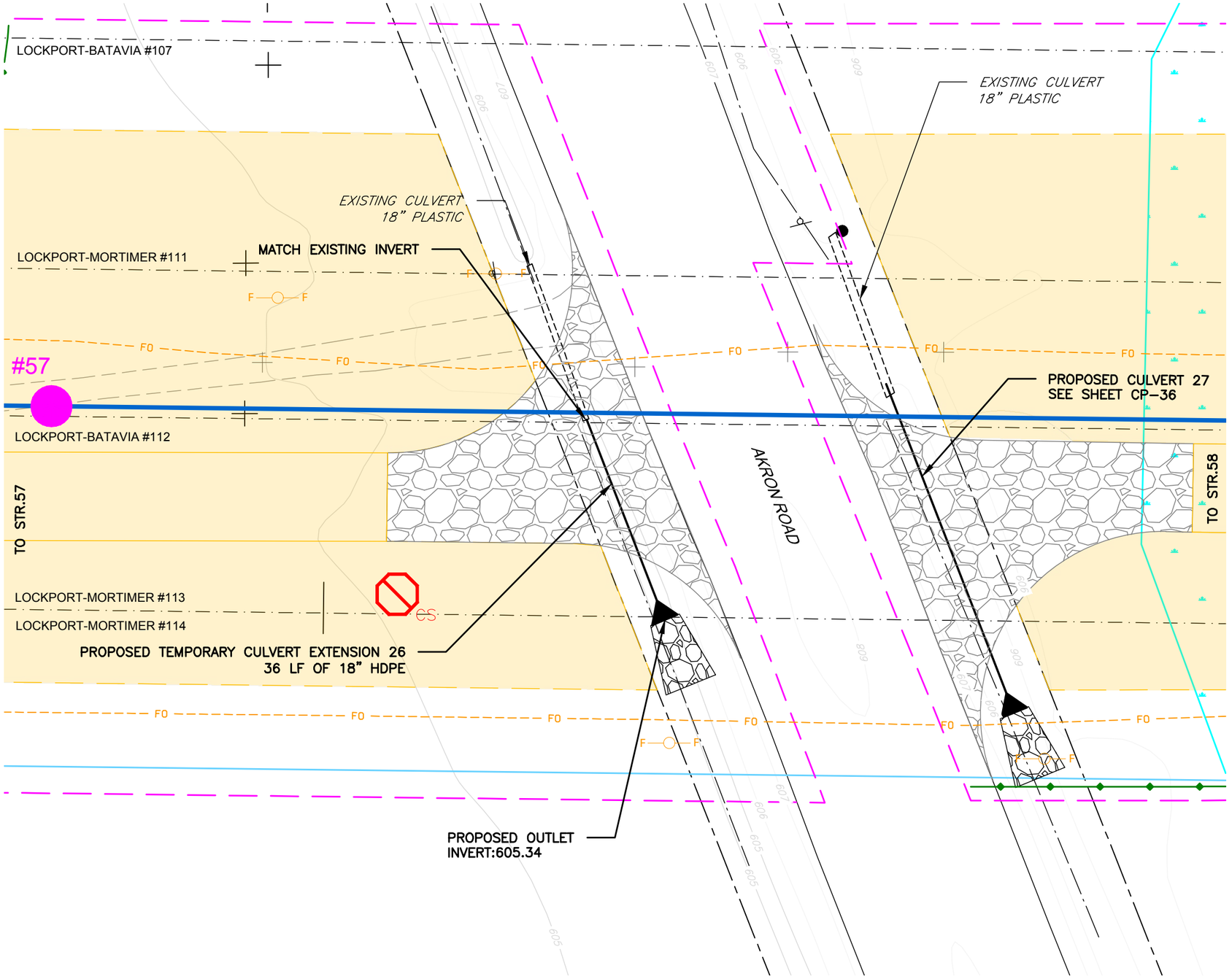
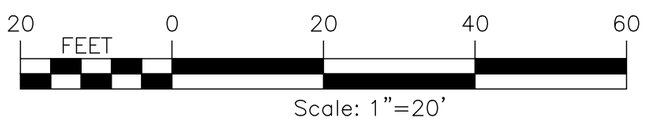
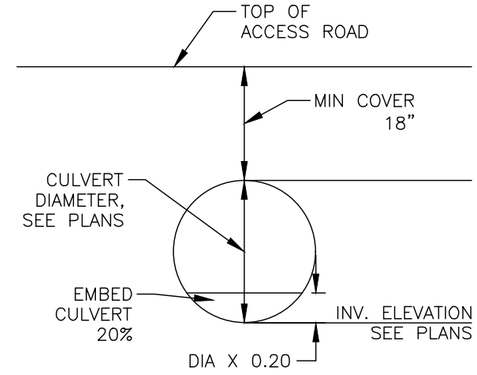




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 36' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - AKRON ROAD

ORIGINAL ISSUE DATE: 6/06/25
SCALE: AS NOTED
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-35

PREPARED BY: nationalgrid
ACCOUNT NUMBER:

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RW/VL	
	APPROVED	RW/VL	

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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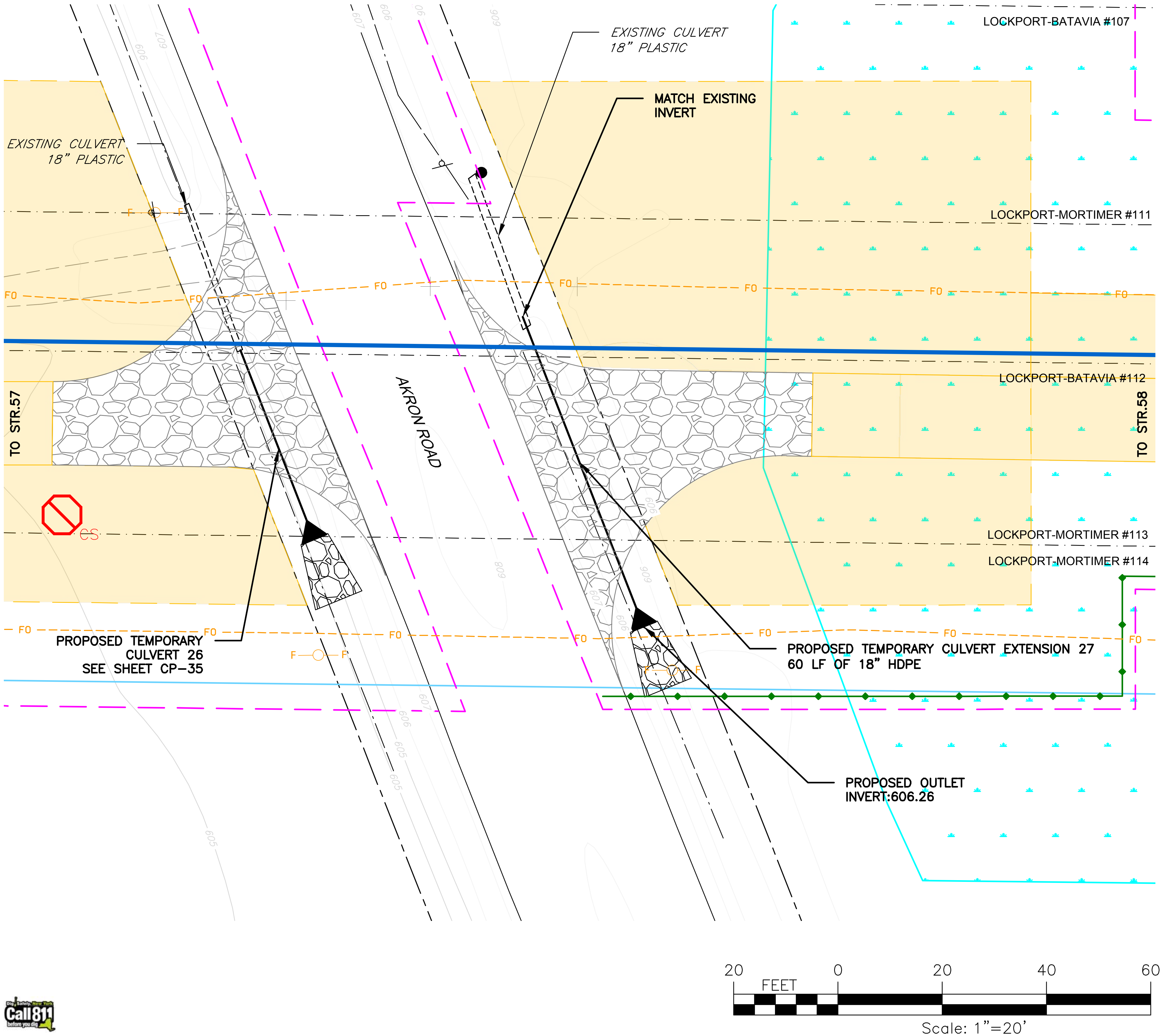
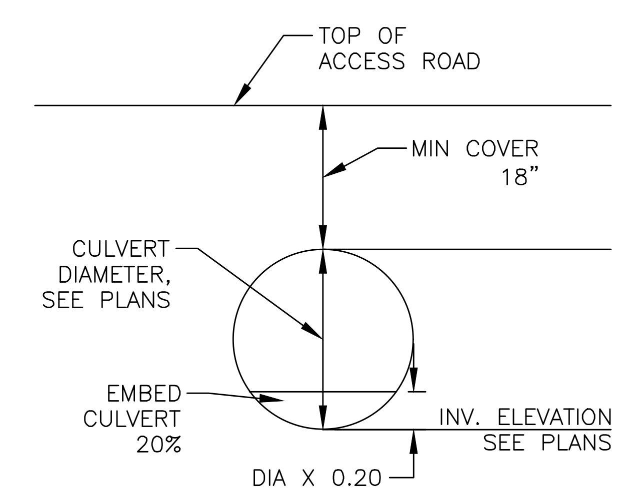


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 60' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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ORIGINAL ISSUE DATE: 6/06/25
FILE INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-36

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - AKRON ROAD

PREPARED BY: nationalgrid

ACCOUNT NUMBER

DES.	H.P	APPROVED
DR.	FISHER	APPROVED
CK.	RWVL	APPROVED
	RWVL	APPROVED

NO	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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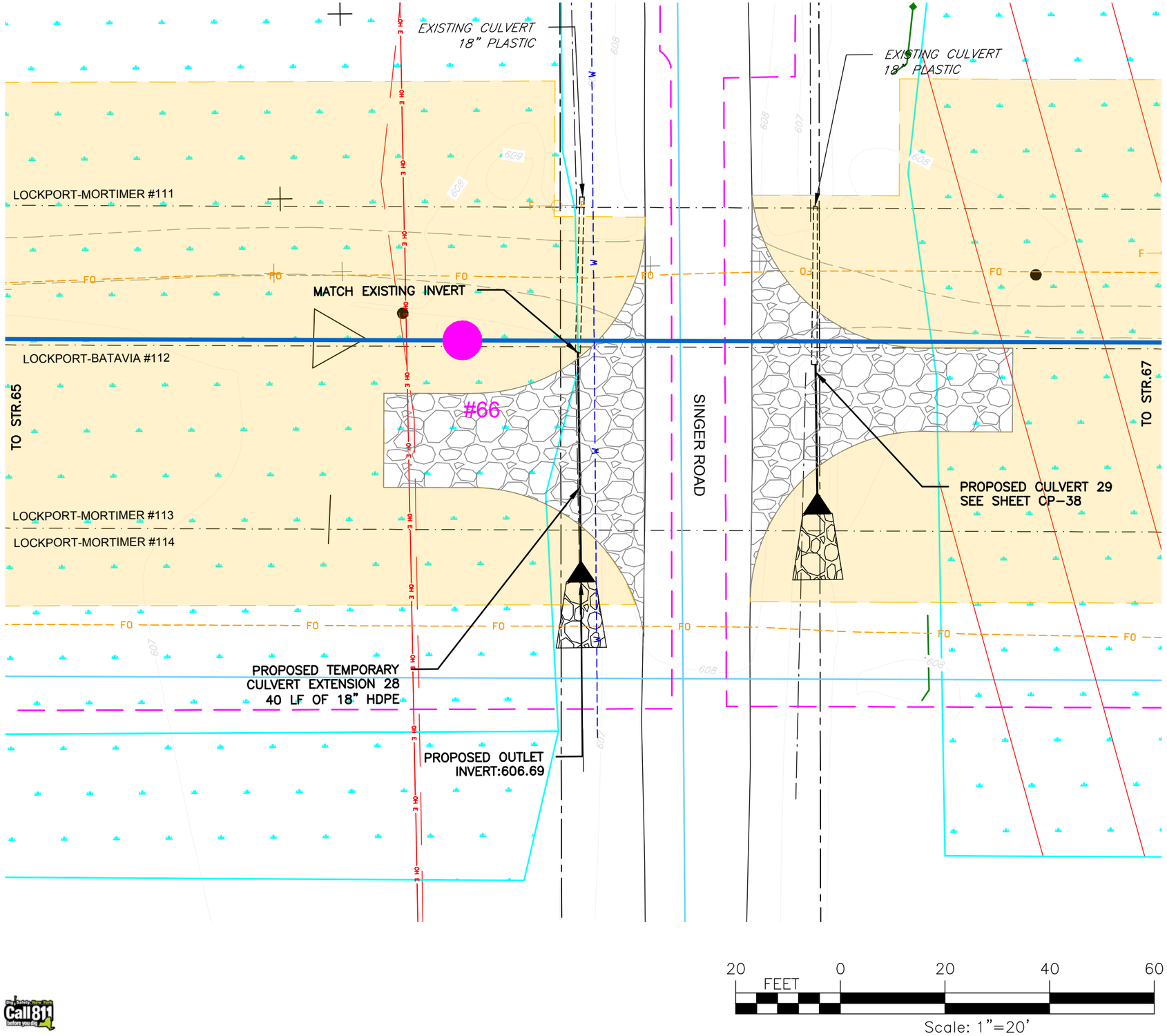
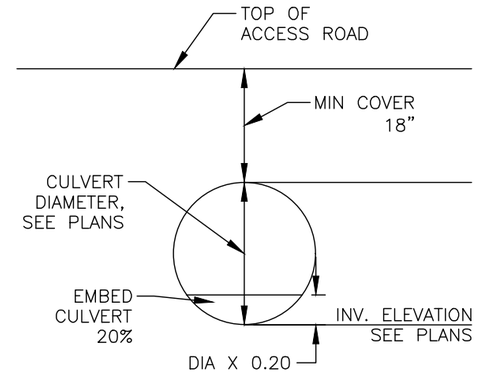


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 40' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 017 TYPE-PFO CULVERT - SINGER RD

ORIGINAL ISSUE DATE: 6/06/25
SCALE: AS NOTED
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-37

PREPARED BY: nationalgrid

	APPROVED	
DES	H.P	
DR	FISHER	
CK	RW/VL	
	RW/VL	

ACCOUNT NUMBER

NO	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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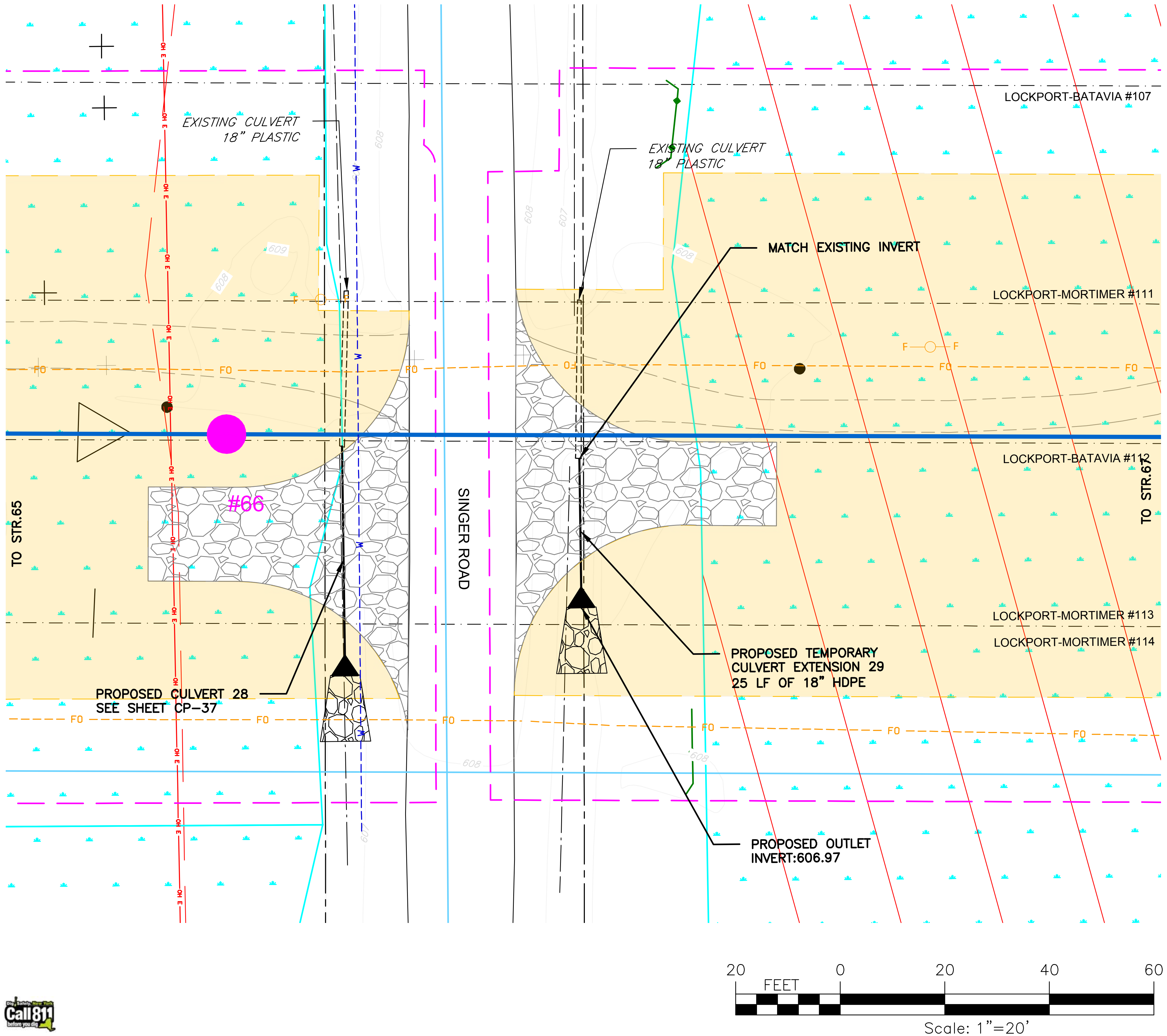
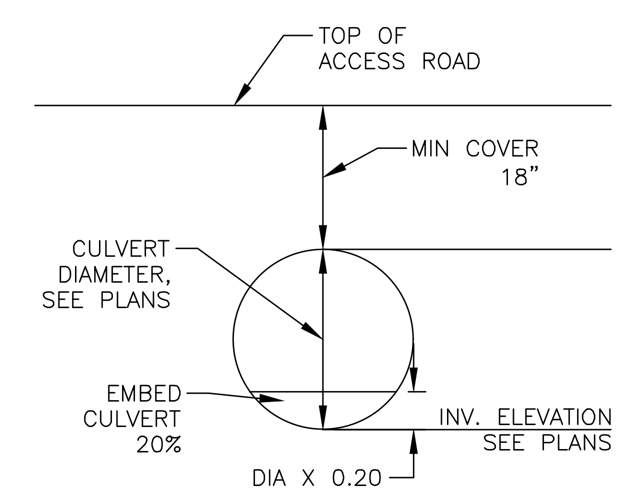


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 25' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
24" ACCESS CULVERT - SINGER ROAD

ORIGINAL ISSUE DATE	6/06/25
FILE INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-38

nationalgrid

PREPARED BY
ACCOUNT NUMBER

DES.	H.P	APPROVED	
DR.	FISHER	APPROVED	RWVL
CK.	RWVL	APPROVED	RWVL

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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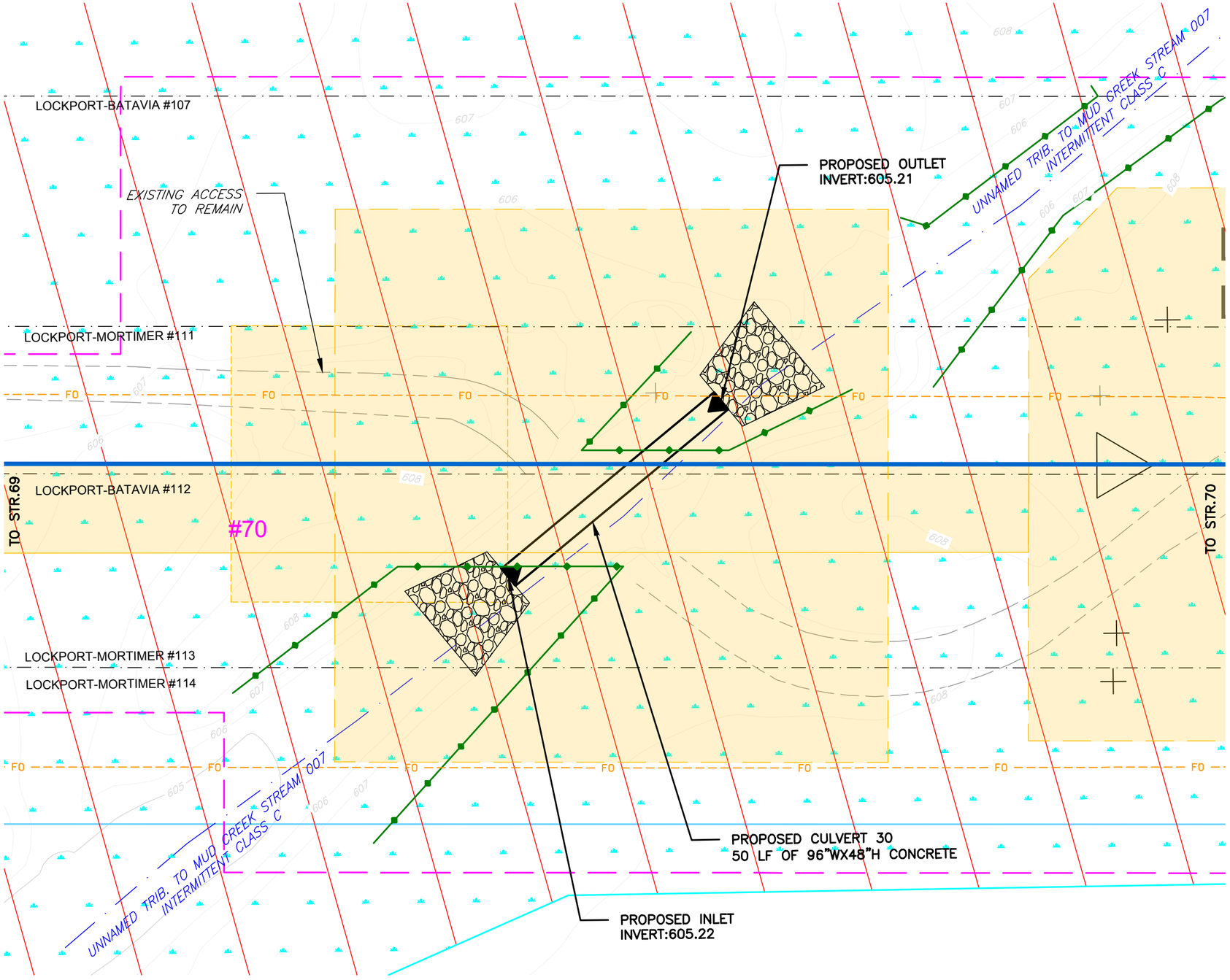
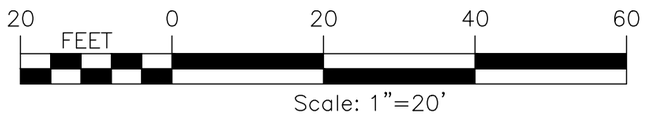
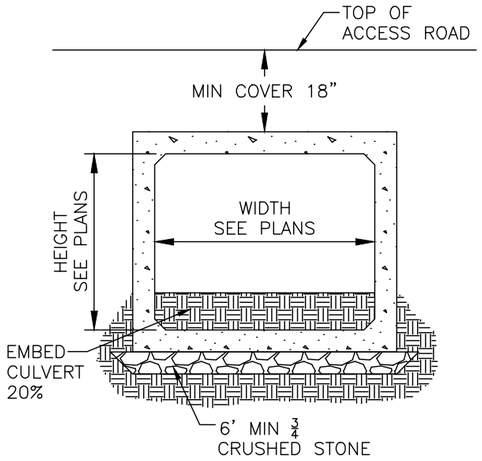




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 96"WX48"H DIA. 50' CONCRETE BOX CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-39

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
NYSDEC STREAM 007 CROSSING CULVERT

nationalgrid

PREPARED BY

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RW/VL	
	APPROVED	RW/VL	

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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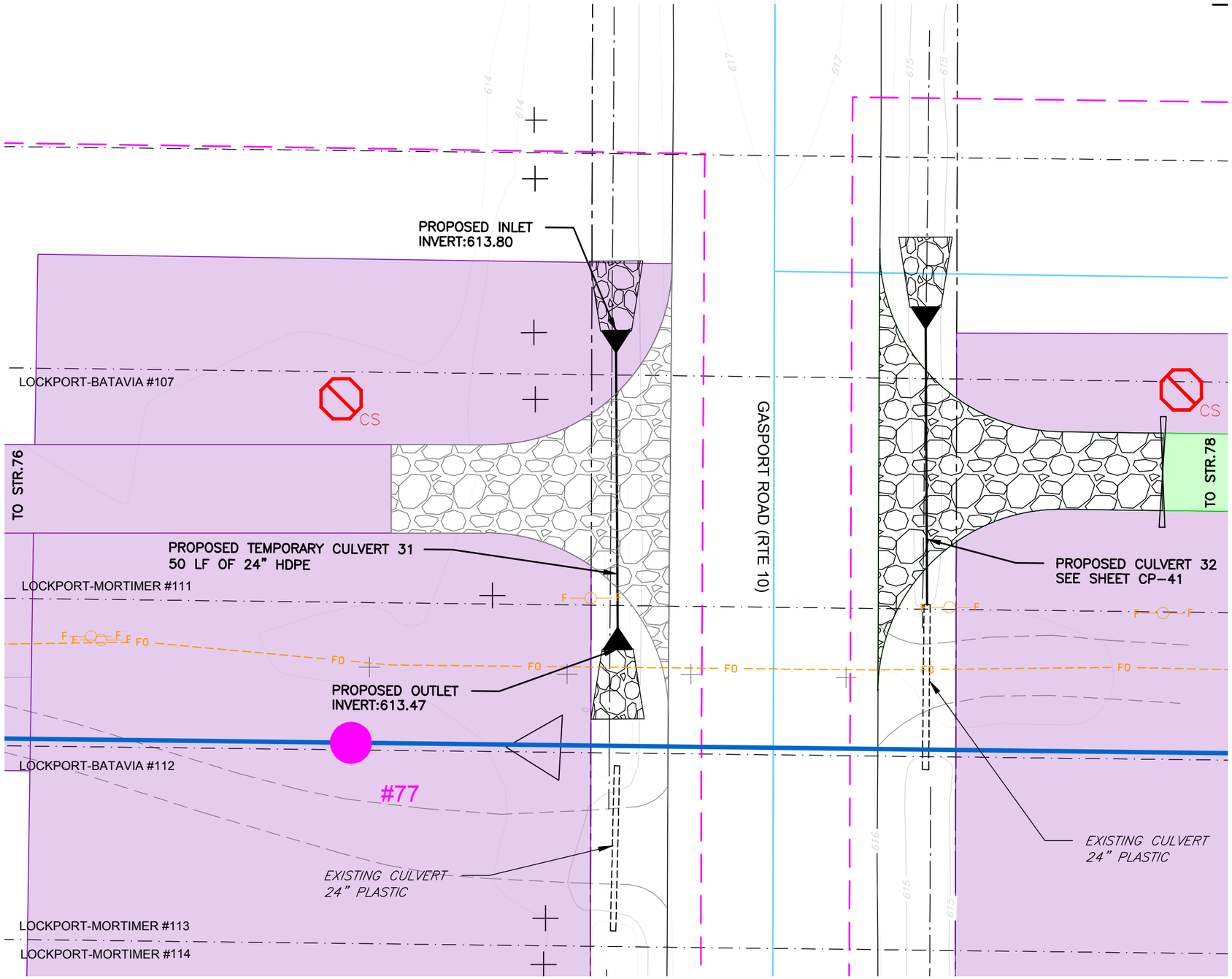
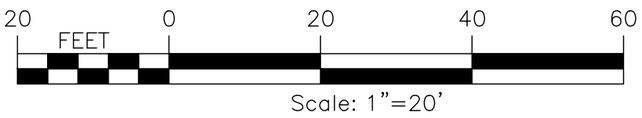
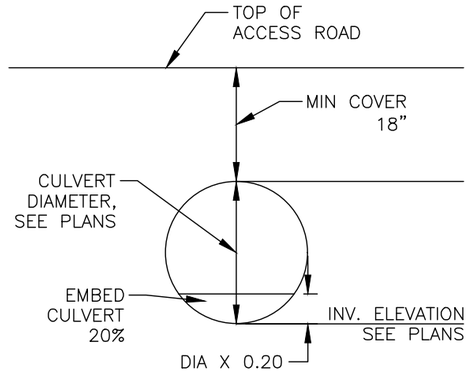




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 24" DIA. 50' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-40

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
24" ACCESS CULVERT - GASPORT ROAD

PREPARED BY: nationalgrid

DES.	APPROVED	H.P	ACCOUNT NUMBER
DR.	APPROVED	FISHER	
CK.	APPROVED	RW/VL	
	APPROVED	RW/VL	

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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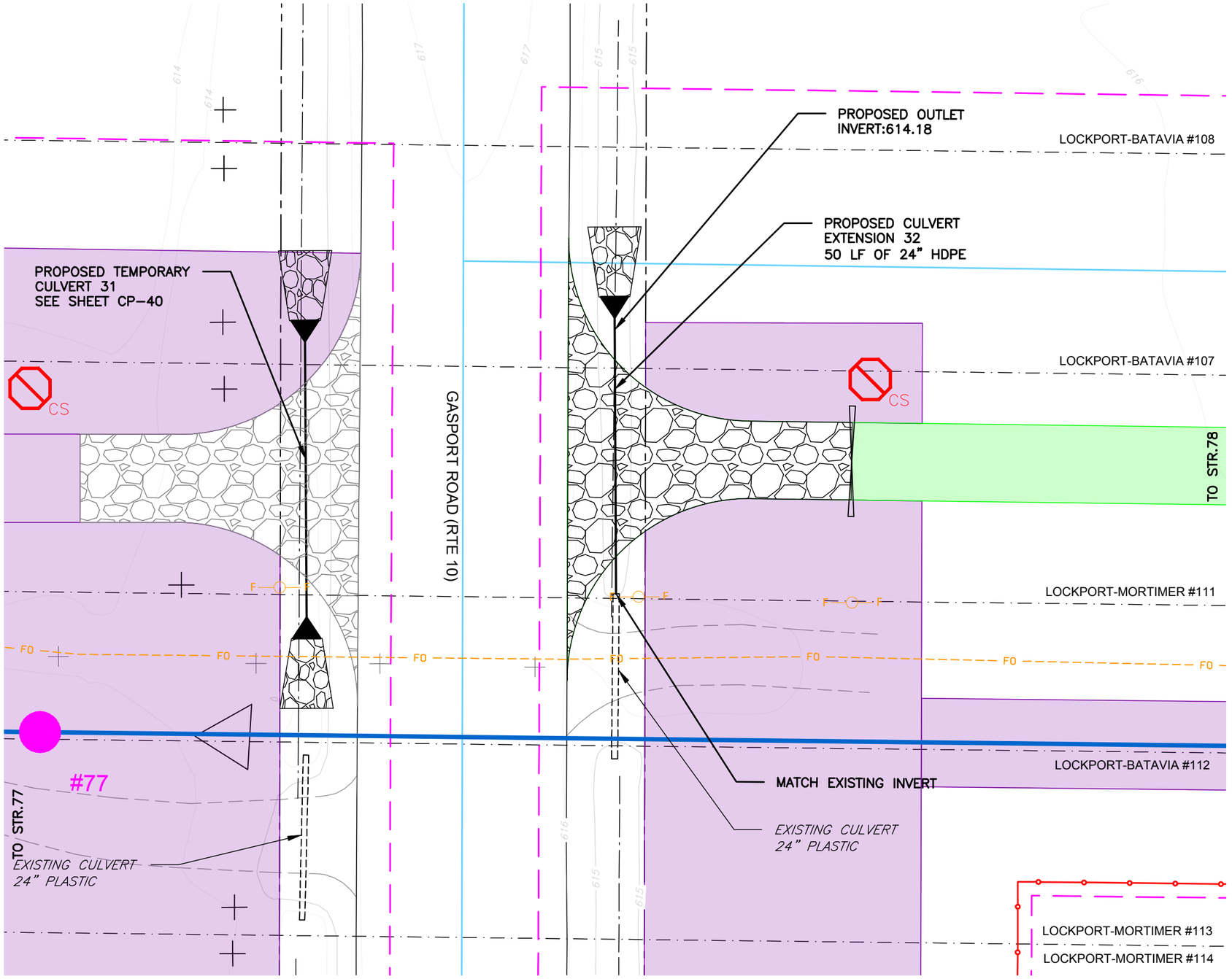
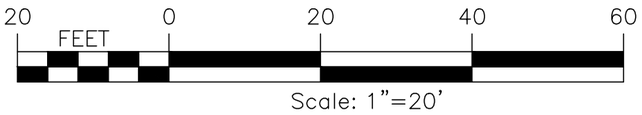
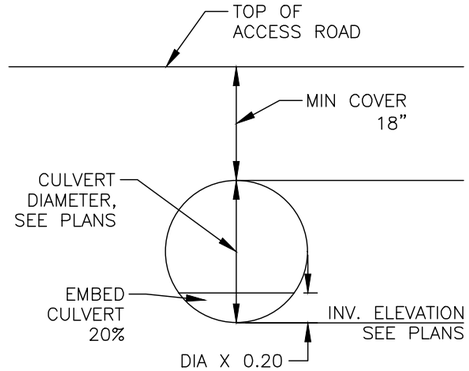




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 24" DIA. 50' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
24" ACCESS CULVERT - GASPORT ROAD

ORIGINAL ISSUE DATE: 6/06/25
KEY INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-41

PREPARED BY: nationalgrid
ACCOUNT NUMBER:

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RWVL
	APPROVED	RWVL

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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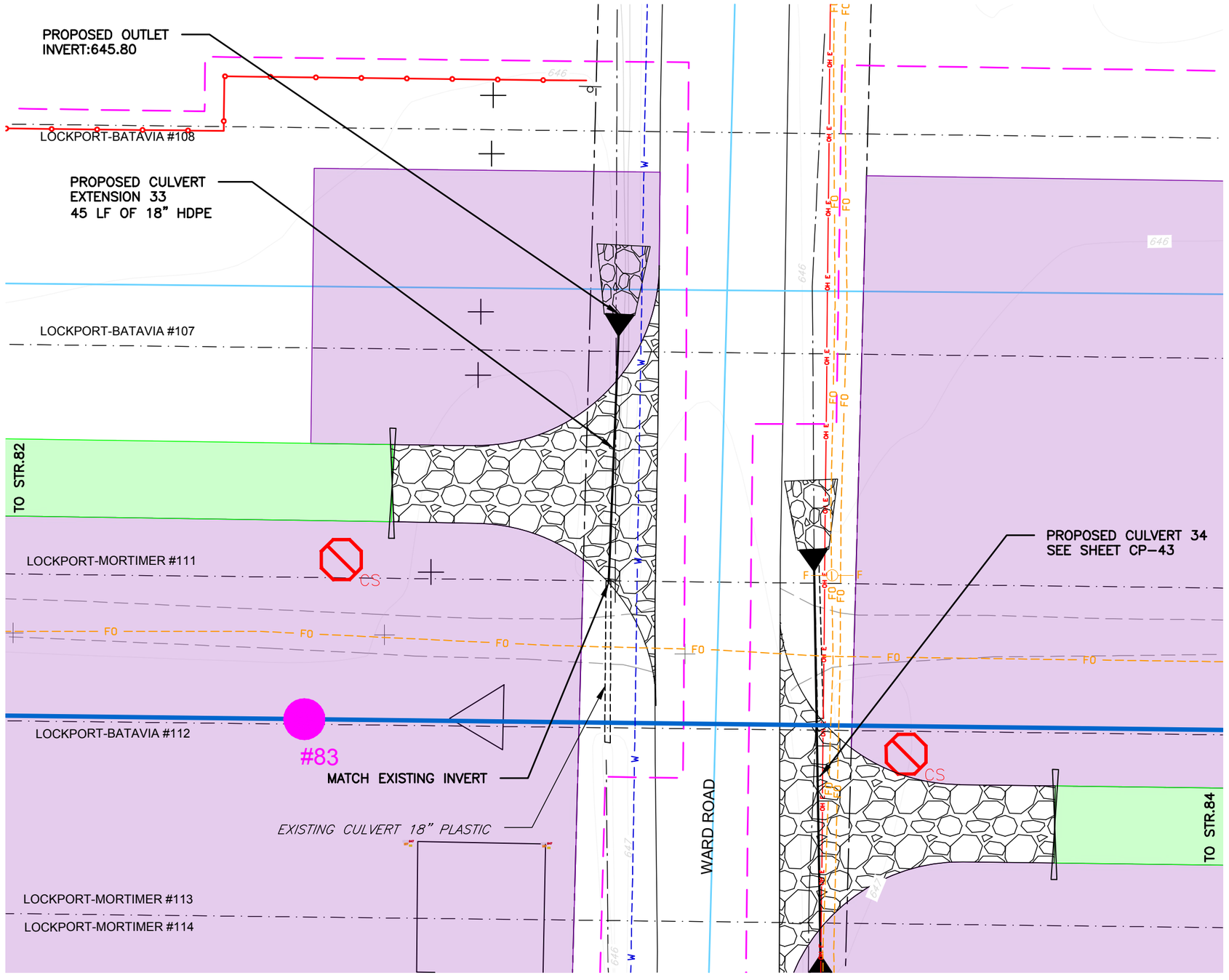
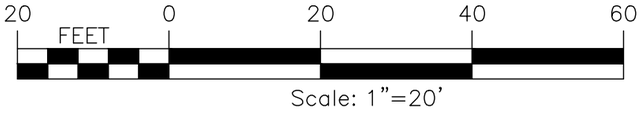
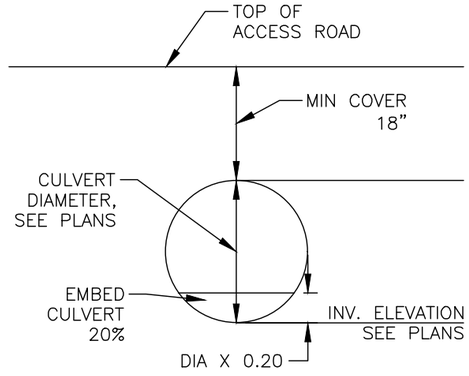




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 45' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18' ACCESS CULVERT - WARD ROAD

ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-42

PREPARED BY: nationalgrid

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RW/VL	
	APPROVED	RW/VL	

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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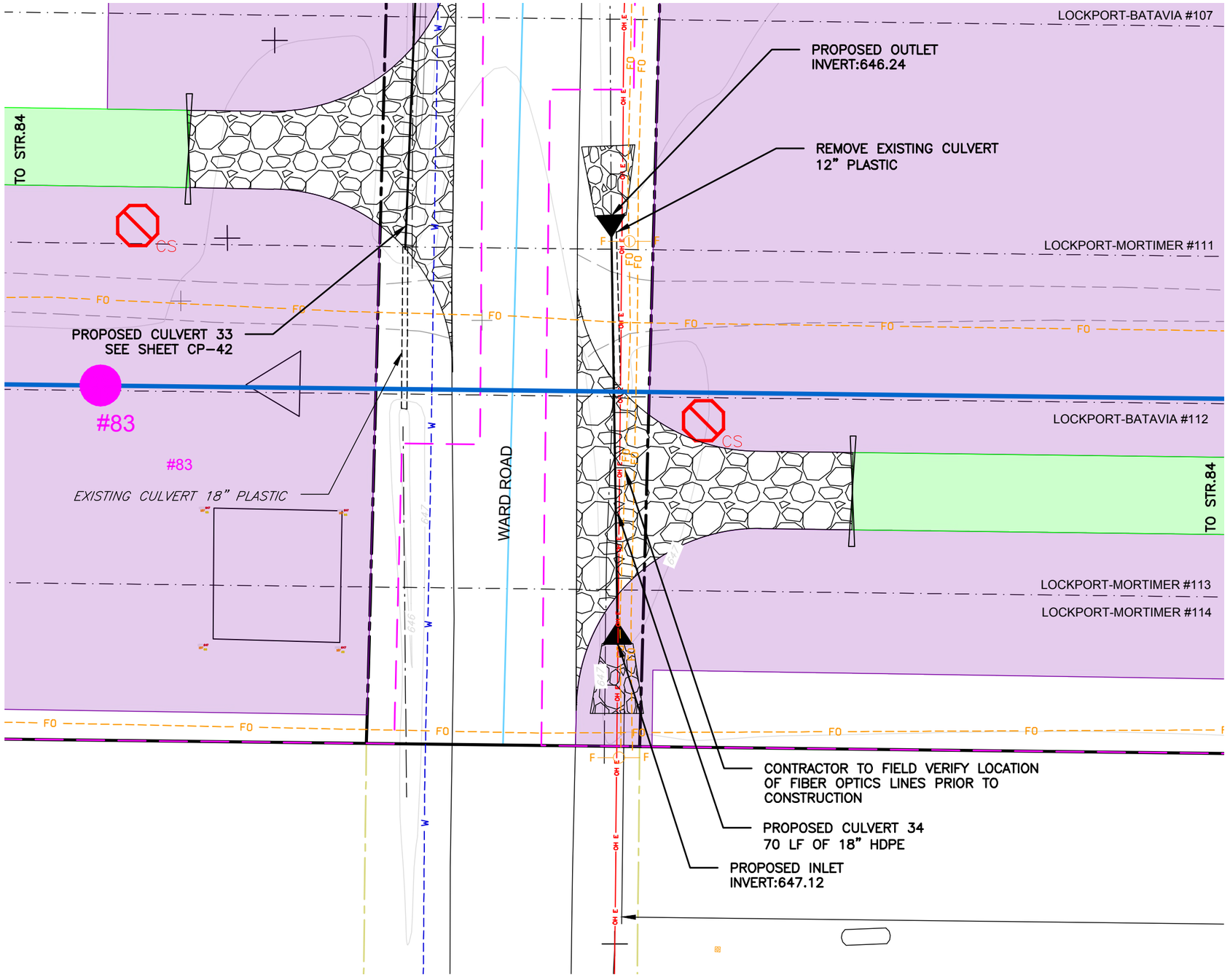
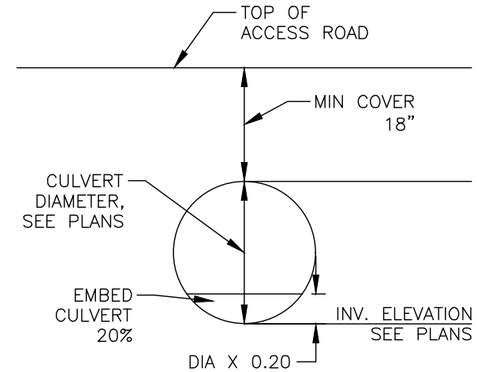


20 0 20 40 60
FEET
Scale: 1"=20'

NOTES:
1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 12" DIA. 11' PLASTIC CULVERT.
4. INSTALL 18" DIA. 70' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-43

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - WARD ROAD

PREPARED BY: nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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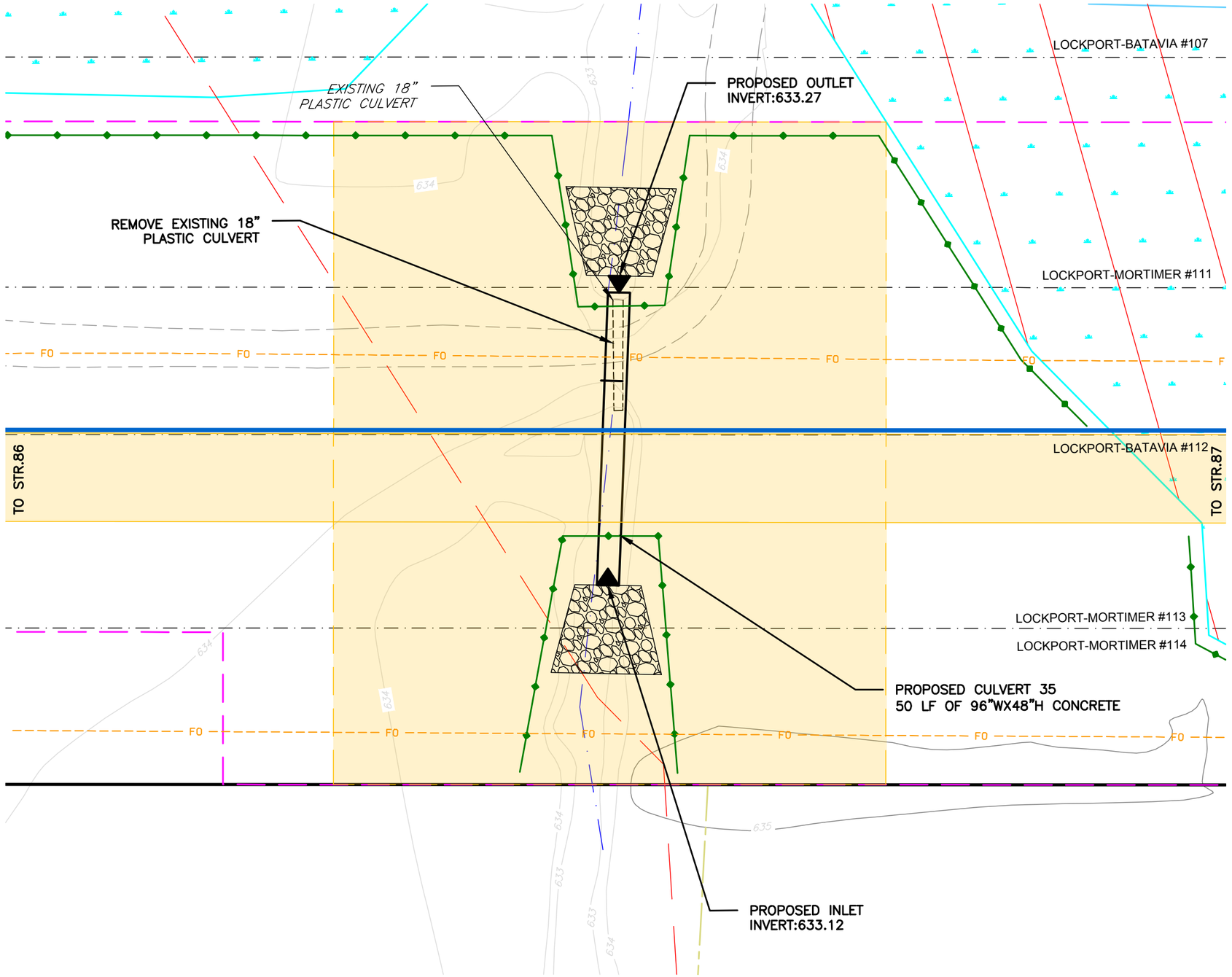
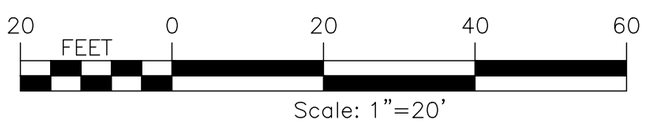
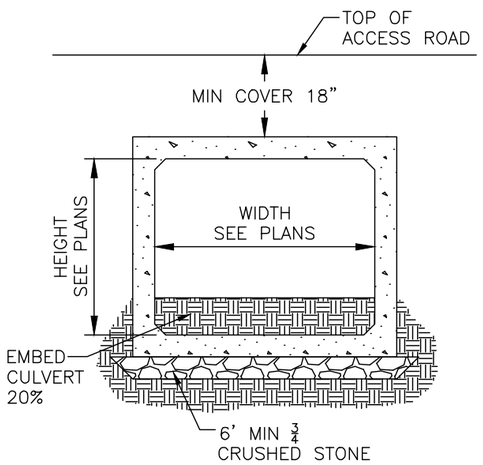




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 18" DIA. 9 PLASTIC CULVERT.
4. INSTALL 96"WX48"H DIA. 50' CONCRETE BOX CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
M.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-44

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
NYSDEC STREAM 008 CROSSING CULVERT

DES.	H.P	APPROVED	
DR.	FISHER	APPROVED	RW/VL
CK.		APPROVED	RW/VL

PREPARED BY: nationalgrid
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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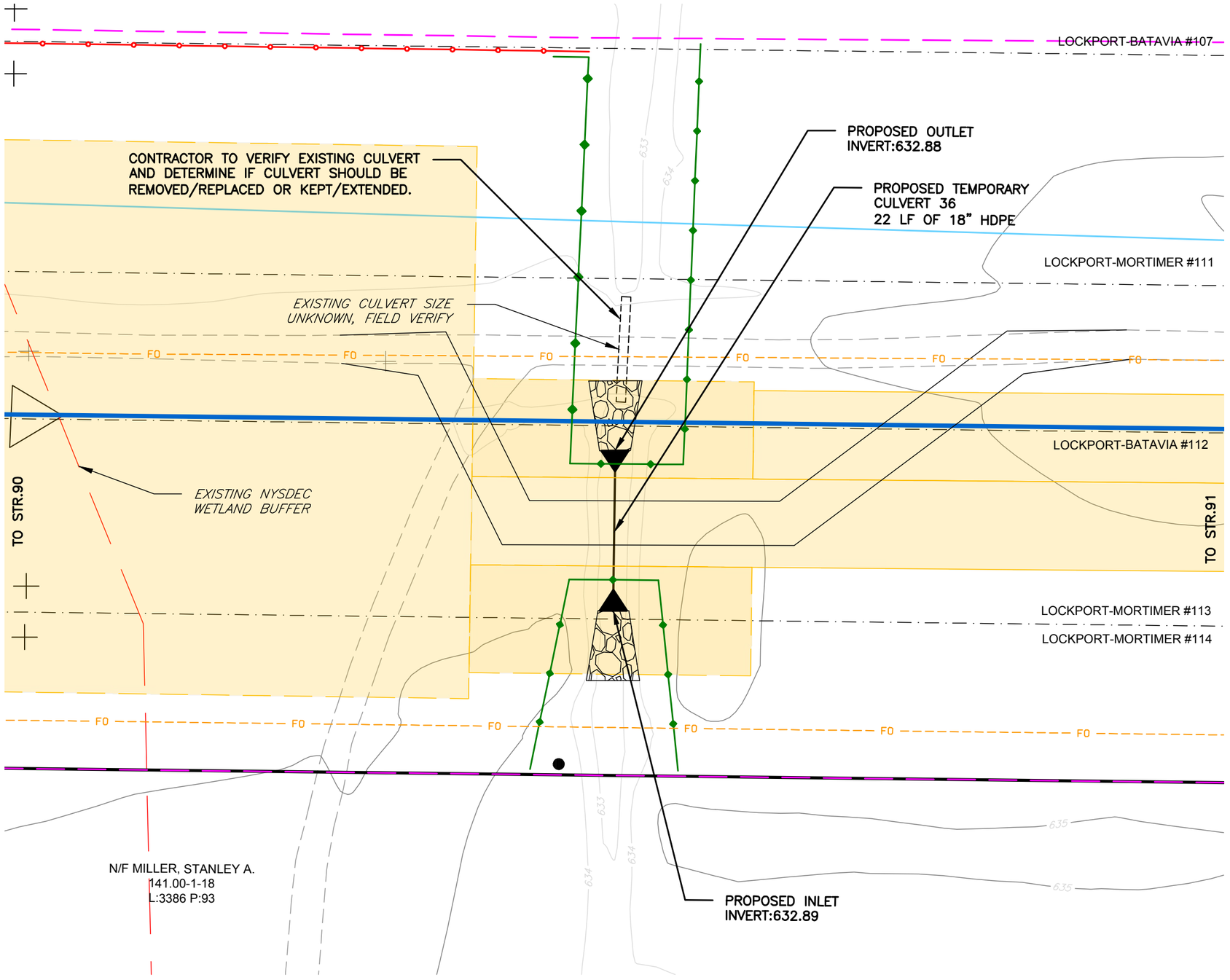
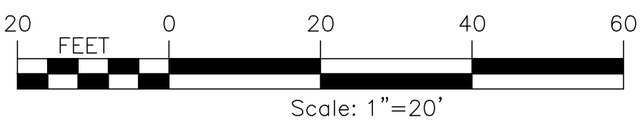
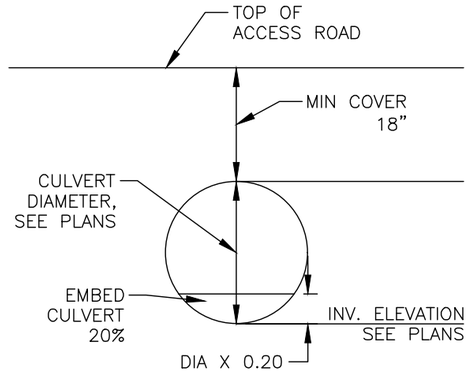


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVING EXISTING CULVERT, SIZE UNKNOWN.
4. INSTALL 18" DIA. 22' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.





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ORIGINAL ISSUE DATE	6/06/25
AS-E INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-45

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
NYSDEC WETLAND 020 TYPE-PEM CULVERT

PREPARED BY: nationalgrid

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RWVL	
	APPROVED	RWVL	

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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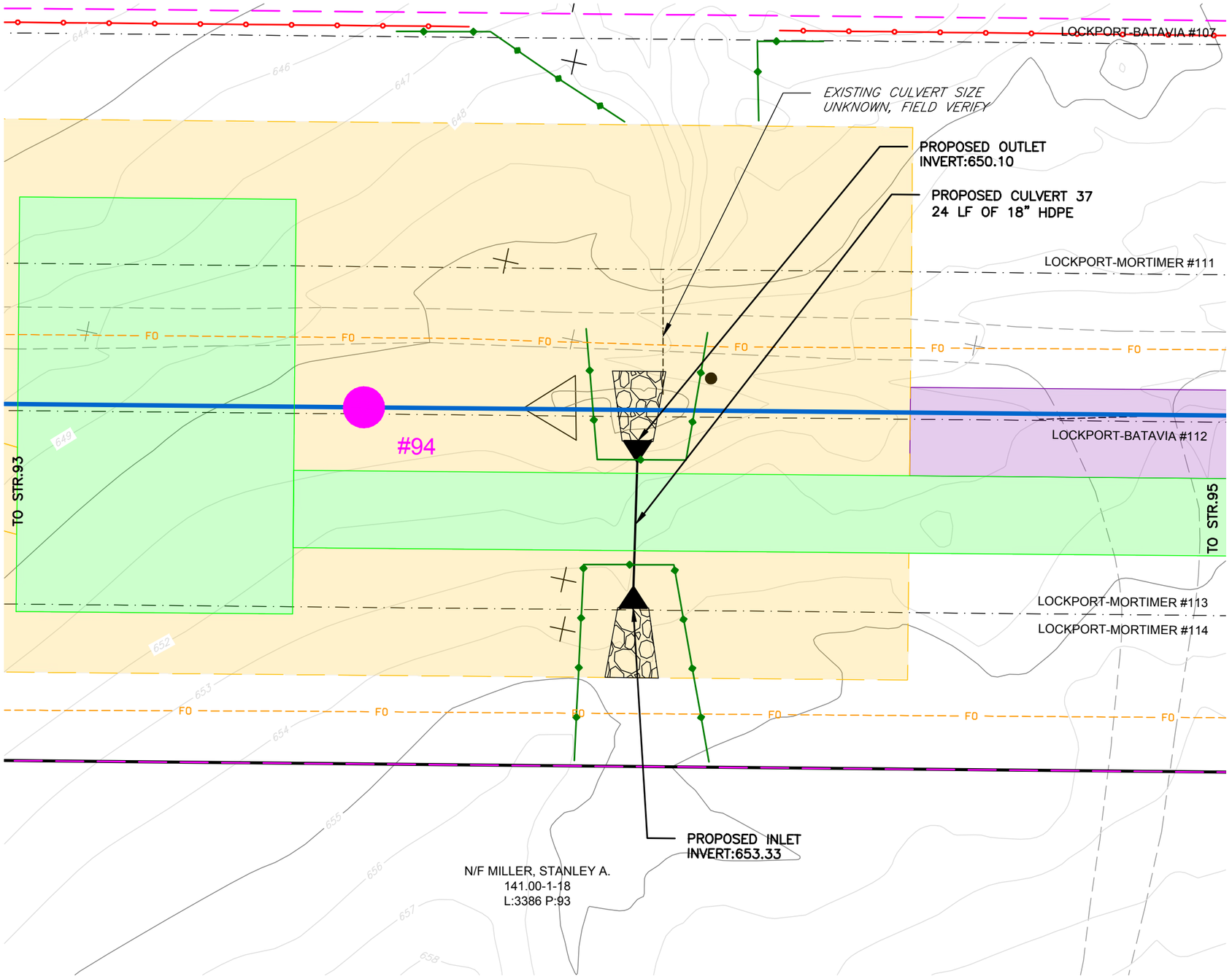
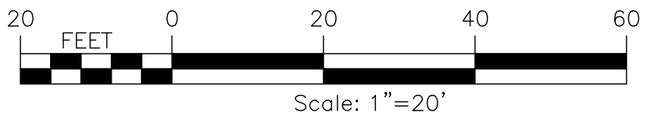
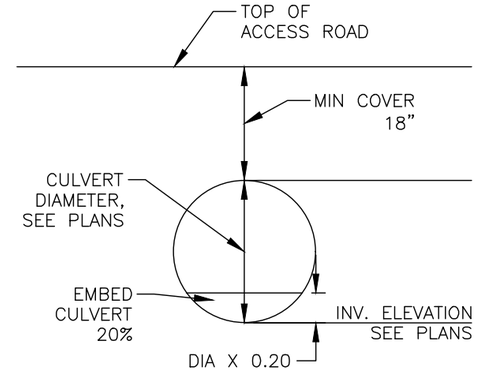




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
4. REMOVE EXISTING CULVERT, SIZE UNKNOWN.
5. INSTALL 18" DIA. 24' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
6. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
7. 0.5% MINIMUM SLOPE REQUIRED.
8. EMBED 20% (MIN.) INTO NATIVE GROUND.
9. 18" MIN. COVER REQUIRED.
10. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
11. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
12. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
13. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-46

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" PROPOSED CULVERT

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY

nationalgrid

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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LOCKPORT-BATAVIA #108

PROPOSED OUTLET
INVERT:642.90

PROPOSED CULVERT 38
74 LF OF 18" HDPE

LOCKPORT-BATAVIA #107

TO STR.95

LOCKPORT-MORTIMER #111

ROYALTON CENTER ROAD
(RTE 55)

EXISTING 12" PLASTIC
CULVERT

#96 REMOVE EXISTING 12"
PLASTIC CULVERT

LOCKPORT-BATAVIA #112

PROPOSED INLET
INVERT:644.26

LOCKPORT-MORTIMER #113

LOCKPORT-MORTIMER #114

PROPOSED CULVERT 39
SEE SHEET CP-48

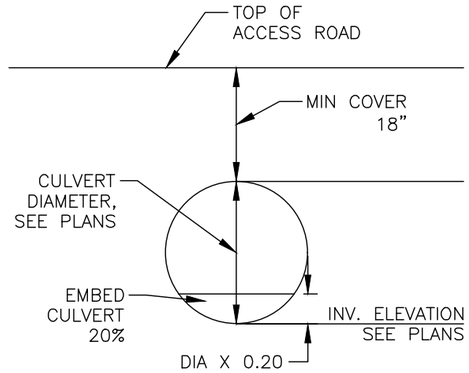
EXISTING TRANSFORMER

EXISTING 12" PLASTIC CULVERT

TO STR.97

20 0 20 40 60
FEET
Scale: 1"=20'

NOTES:
1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 12" DIA. 11.50' PLASTIC CULVERT.
4. INSTALL 18" DIA. 74' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-47

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - ROYALTON CENTER RD

PREPARED BY: nationalgrid

DES.	APPROVED H.P	DR.	APPROVED FISHER
CK.	APPROVED RWVL	APP.	APPROVED RWVL

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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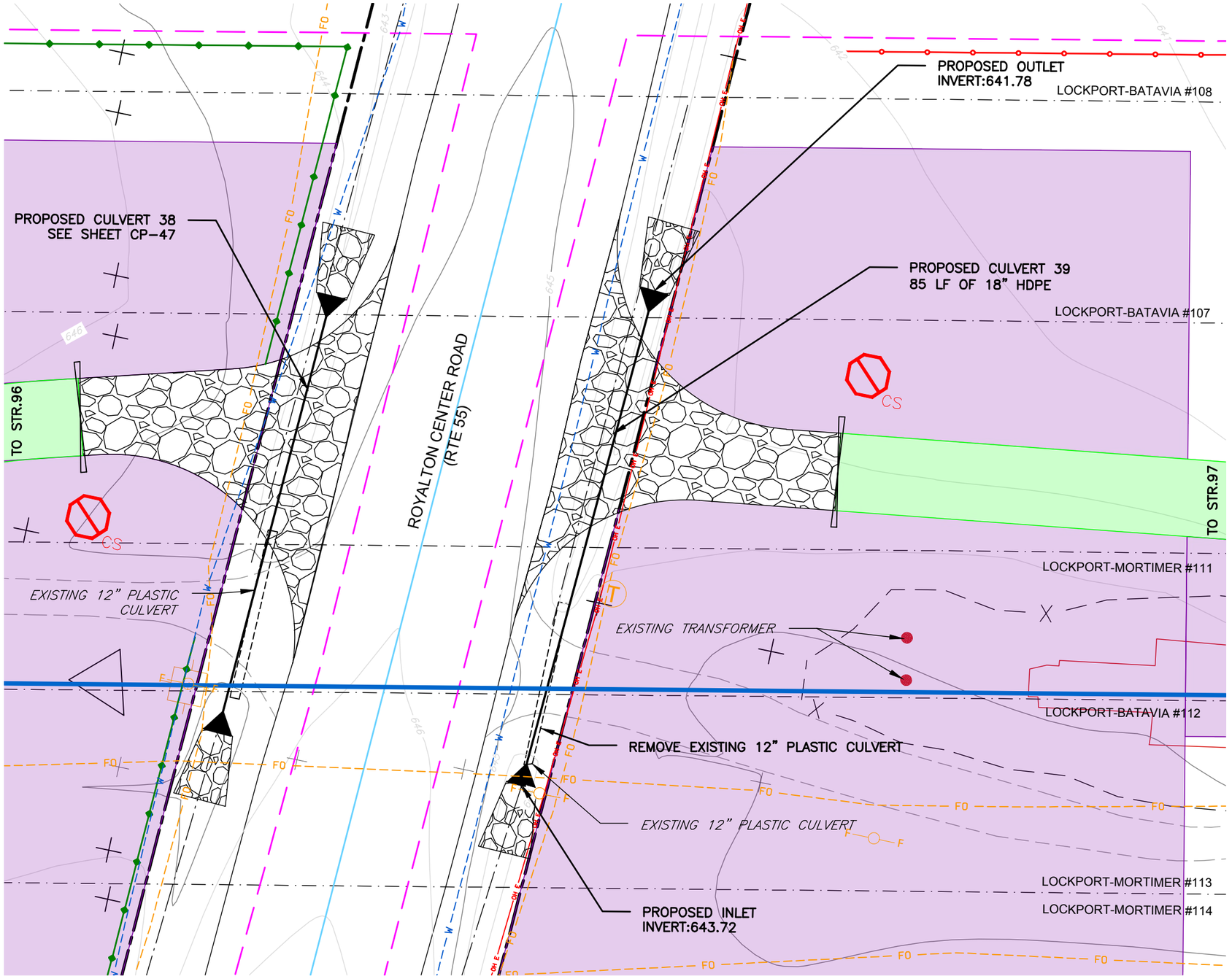
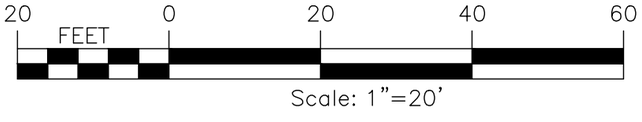
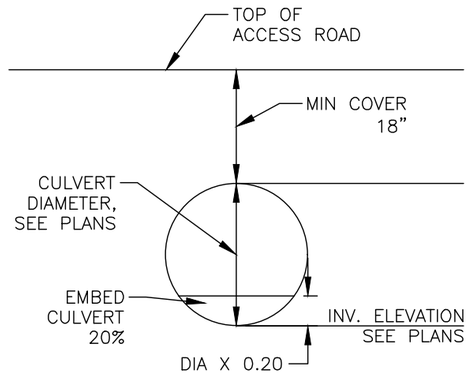




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 12" DIA. 13' PLASTIC CULVERT.
4. INSTALL 18" DIA. 85' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
G.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-48

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - ROYALTON CENTER RD

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY: nationalgrid

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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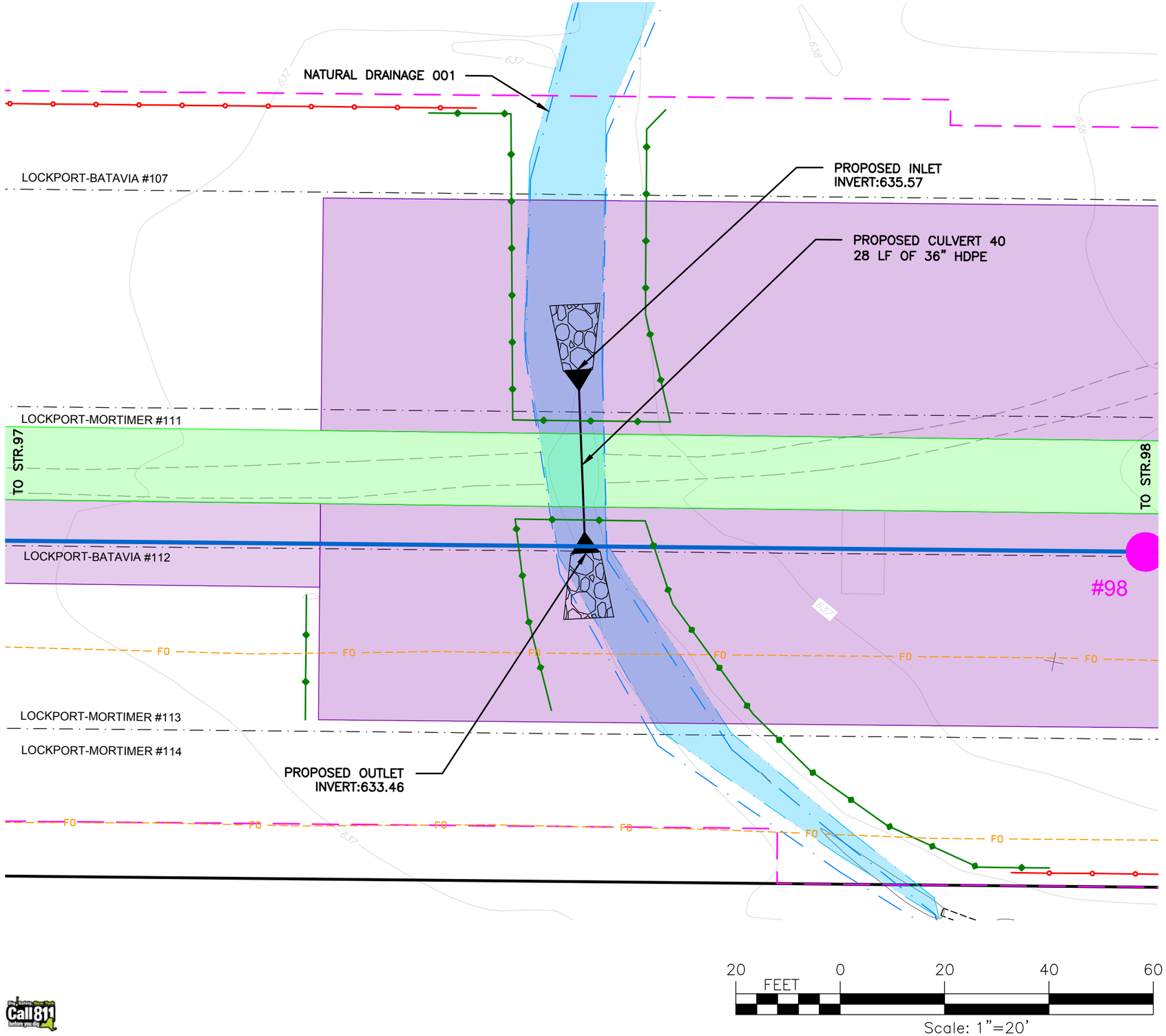
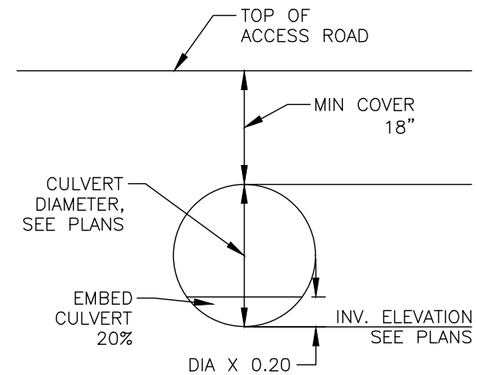


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 36" DIA. 28' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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ORIGINAL ISSUE DATE	6/06/25
M.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-49

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
PERENNIAL STREAM CROSSING CULVERT

nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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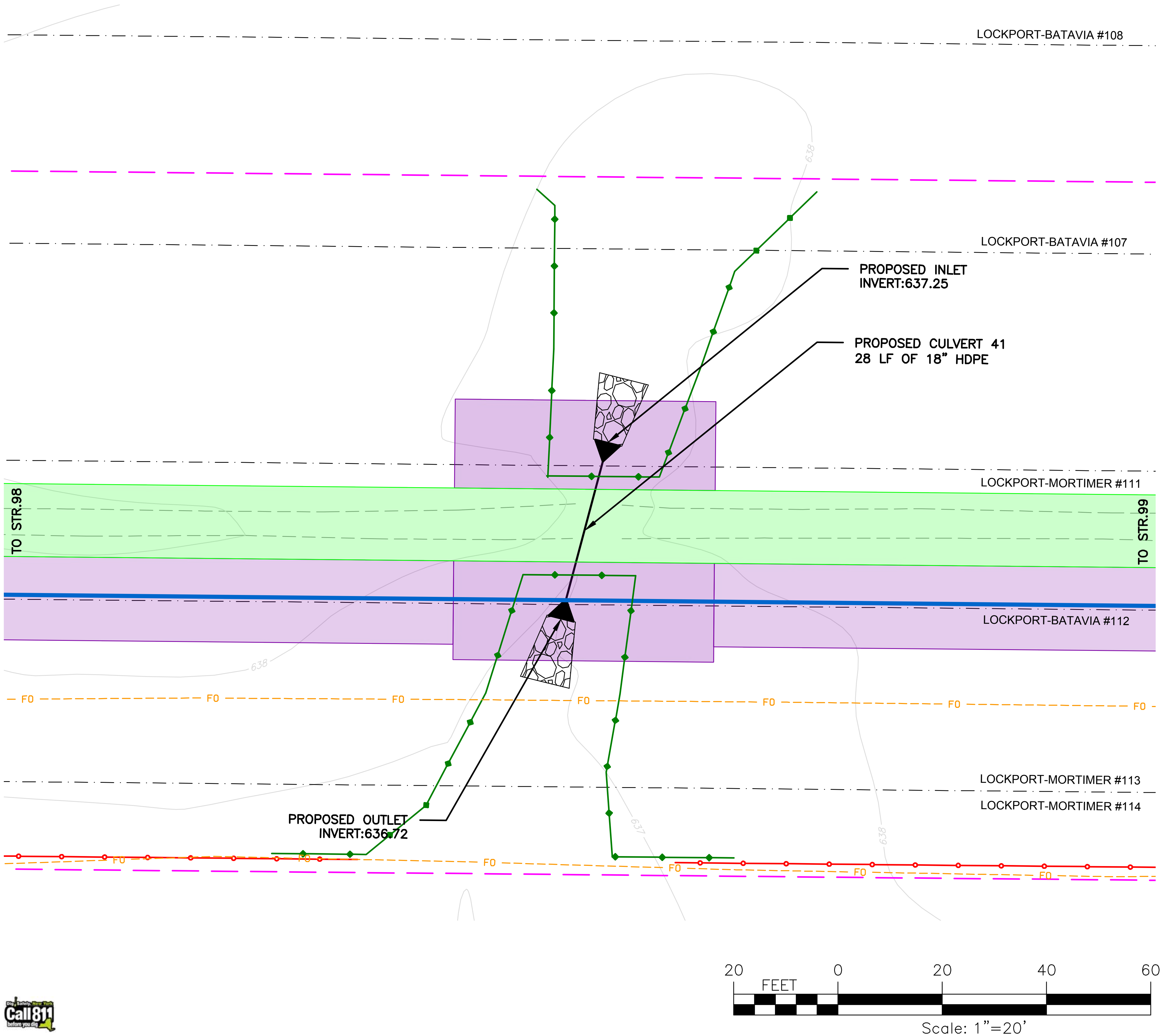

NOTES:
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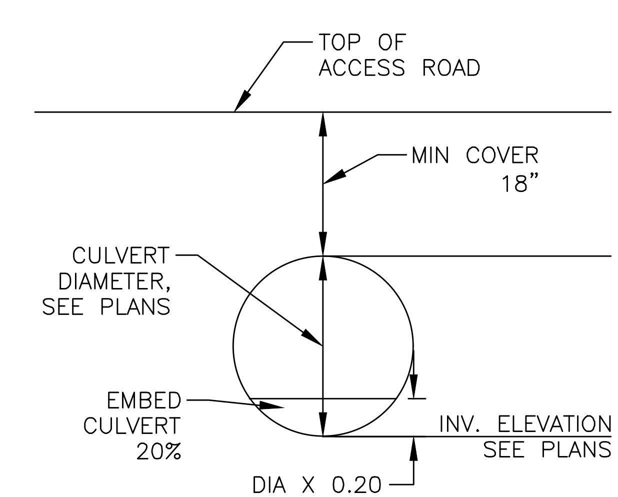
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 28' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP–05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" PROPOSED CULVERT

ORIGINAL ISSUE DATE: 6/06/25
FILE INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-50

nationalgrid

DES. H.P — DR. FISHER — CK. RWVL — APPROVED RWVL

NO. | DATE | DESCRIPTION OF ISSUE OR REVISION | DR | CK | APP

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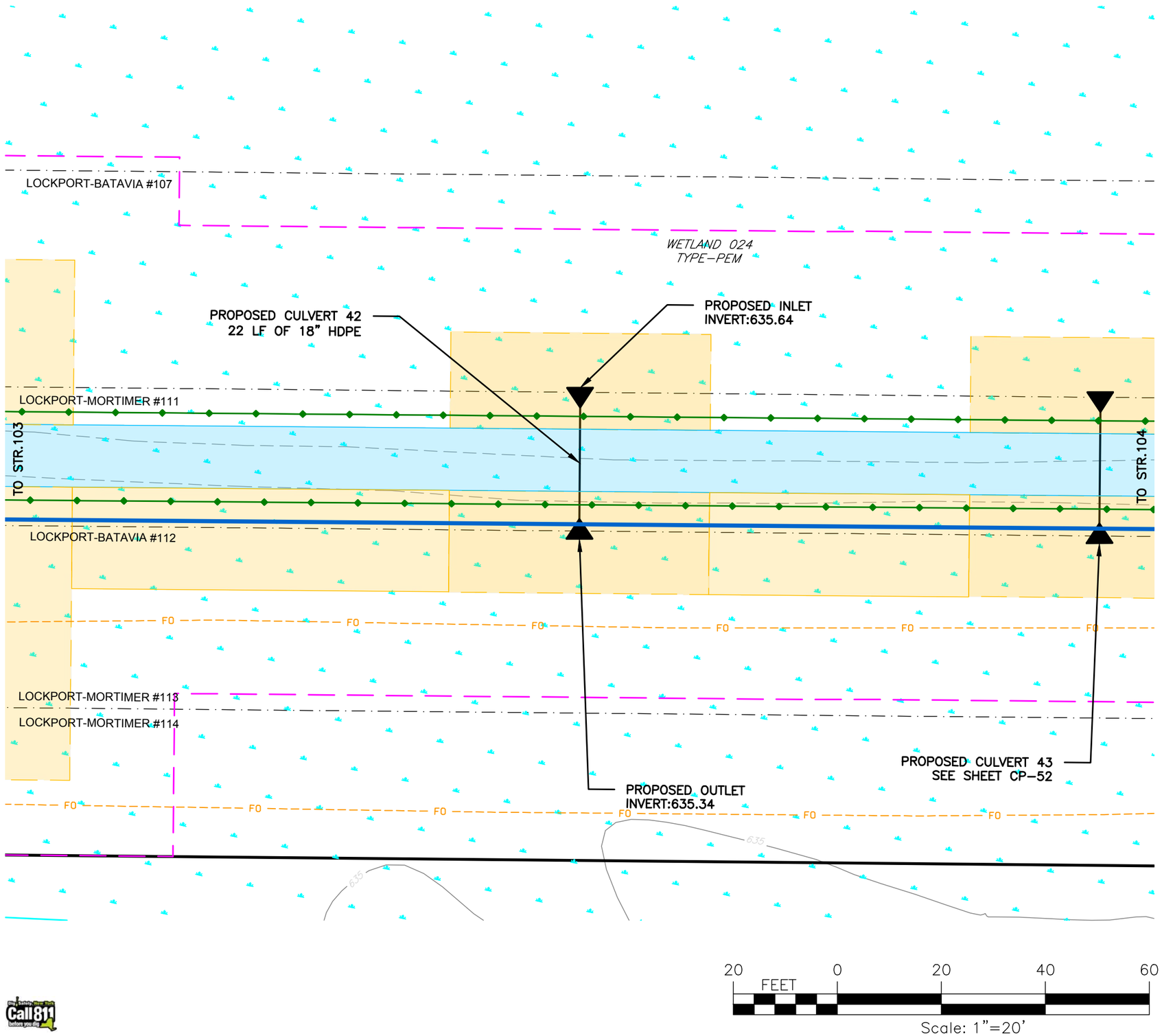

NOTES:

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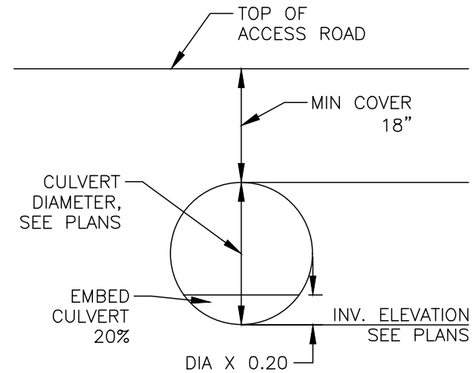
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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ORIGINAL ISSUE DATE	6/06/25
KEY INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-51

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 024 TYPE-PEM CULVERT

nationalgrid

DES	APPROVED H.P	DR. APPROVED FISHER	CK. APPROVED RW/VL

PREPARED BY | ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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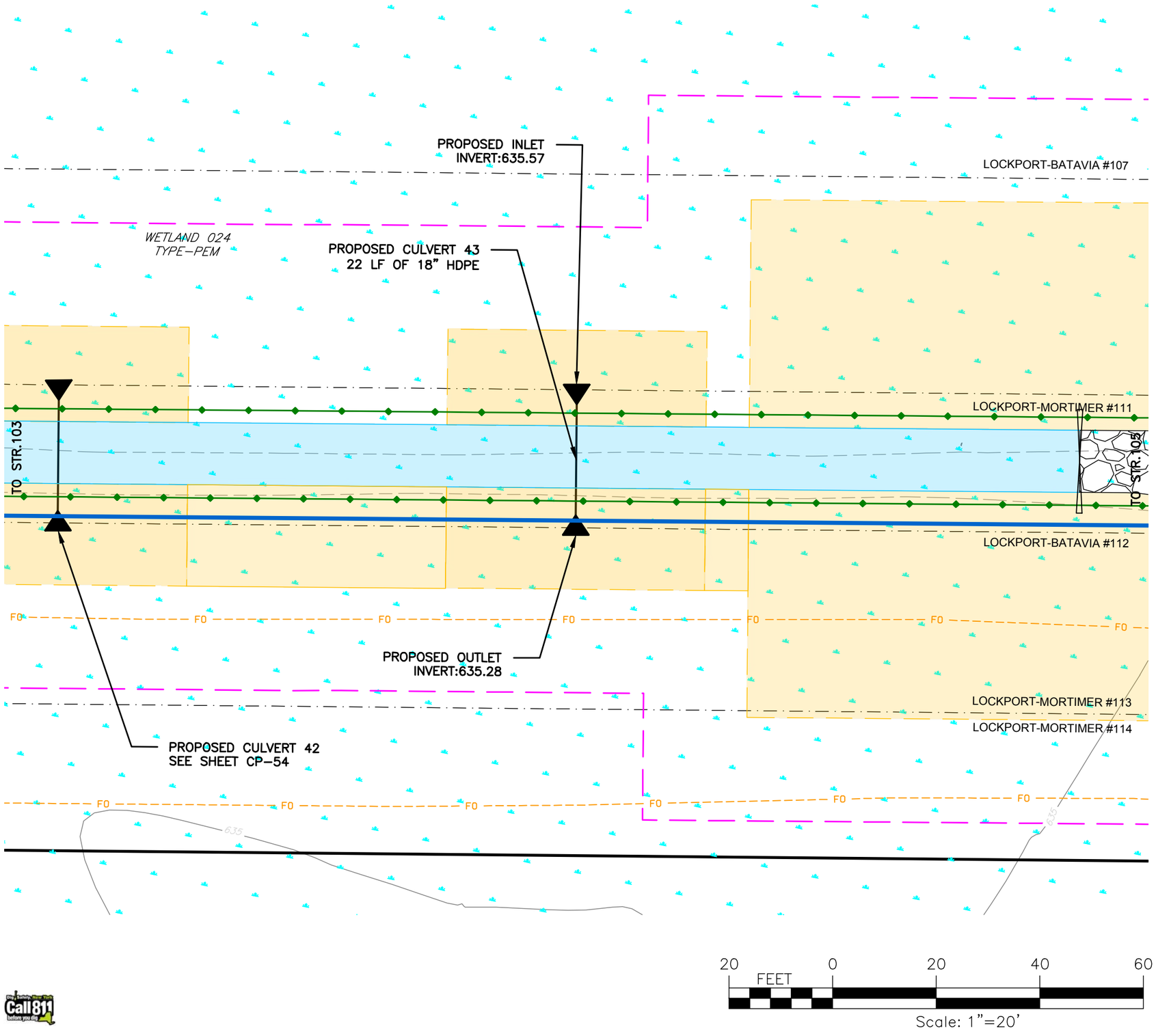

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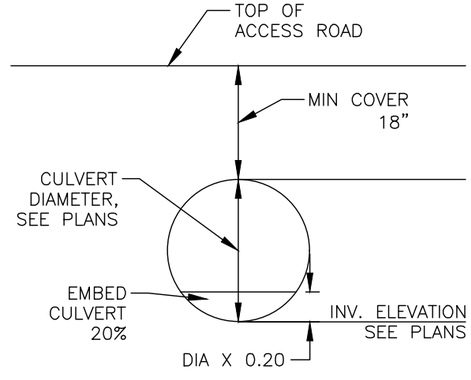
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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ORIGINAL ISSUE DATE	6/06/25
M.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-52

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 024 TYPE-PEM CULVERT

PREPARED BY: nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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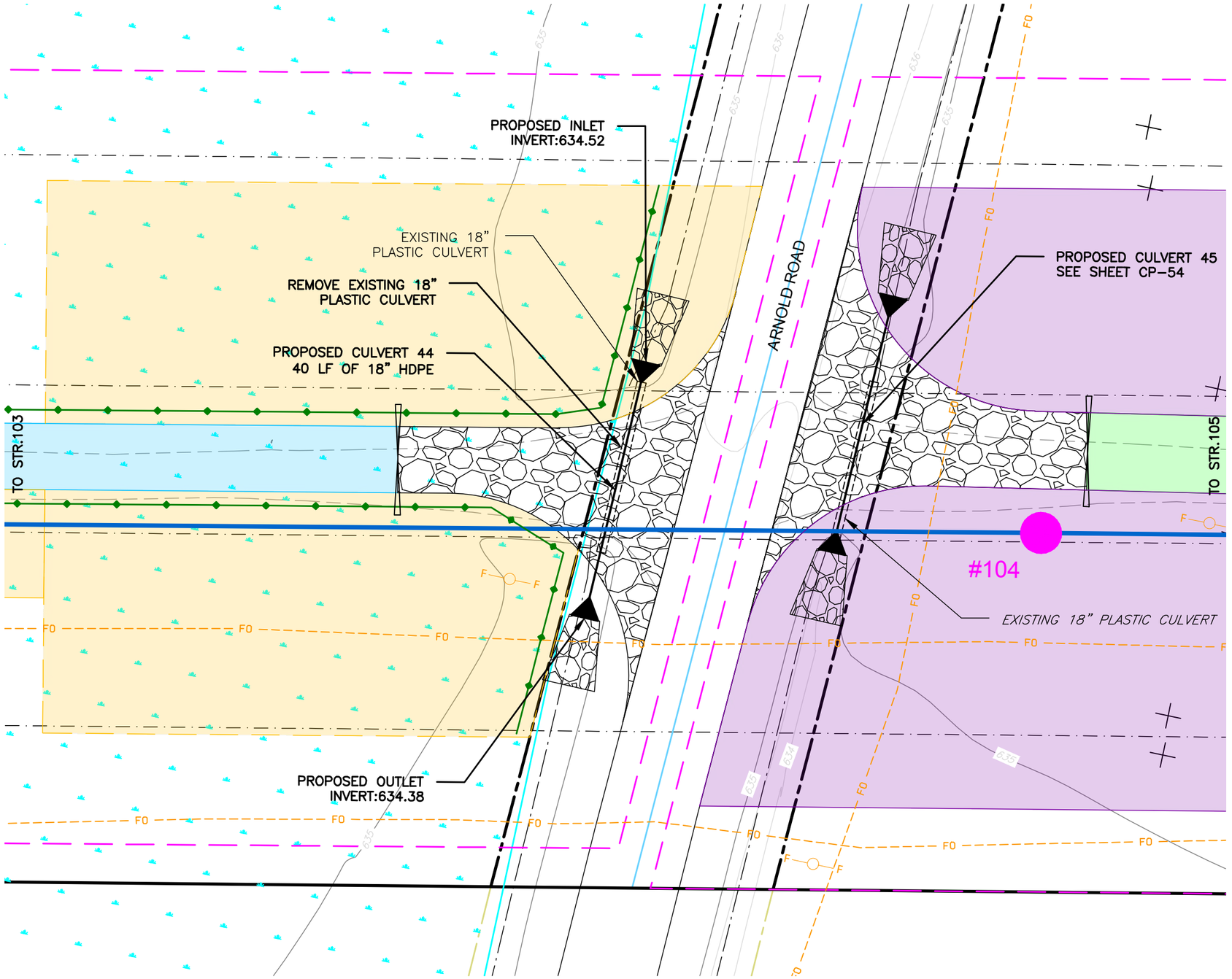

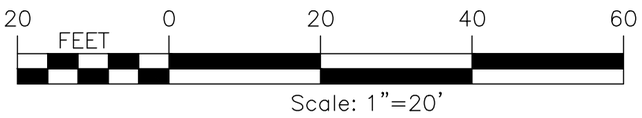

NOTES:

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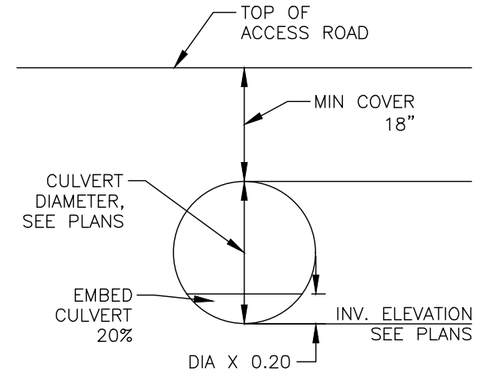
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 18" DIA. 12' PLASTIC CULVERT.
4. INSTALL 18" DIA. 40' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-53

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - ARNOLD ROAD

nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RWVL
	APPROVED	RWVL

PREPARED BY
ACCOUNT NUMBER

NO.	DESCRIPTION OF ISSUE OR REVISION	DATE	DR.	CK.	APP.

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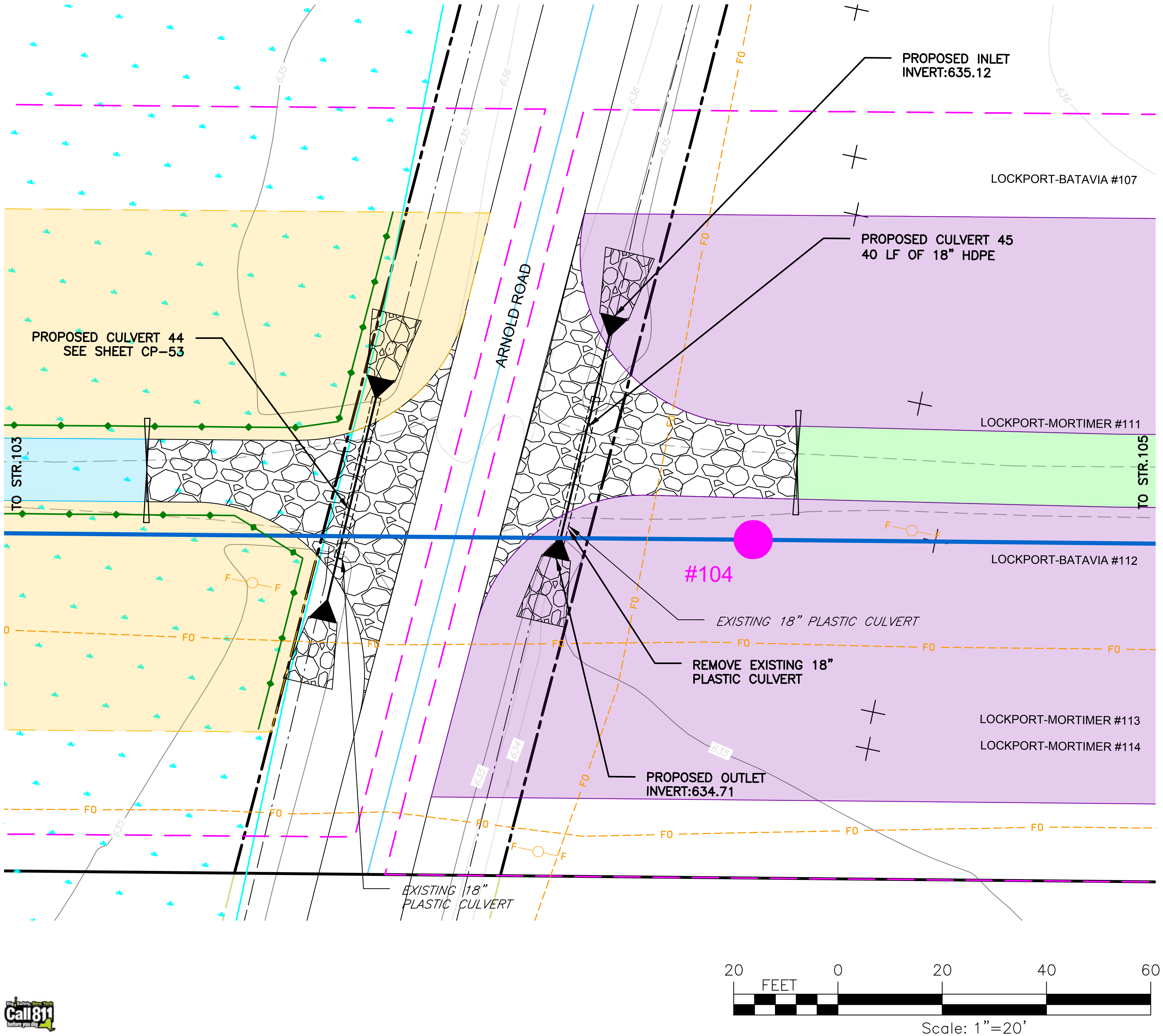

NOTES:

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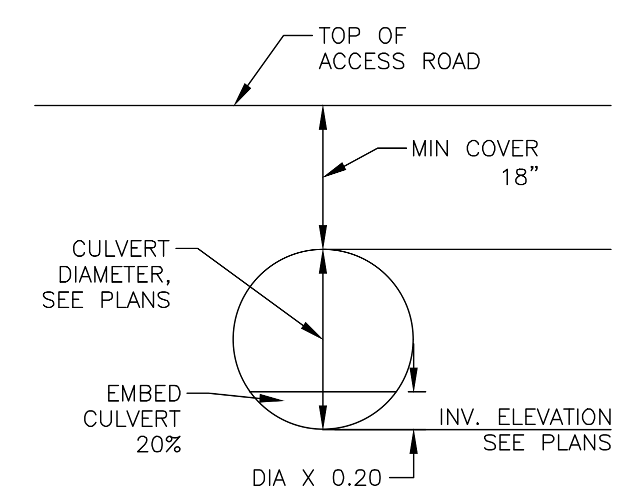
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 18" DIA. 13' PLASTIC CULVERT.
4. INSTALL 18" DIA. 40' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
FILE INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-54

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 025 TYPE-PEM CULVERT - ARNOLD RD

PREPARED BY nationalgrid

ACCOUNT NUMBER

DES.	H.P.	APPROVED	
DR.	FISHER	APPROVED	
CK.	RWVL	APPROVED	RWVL

NO	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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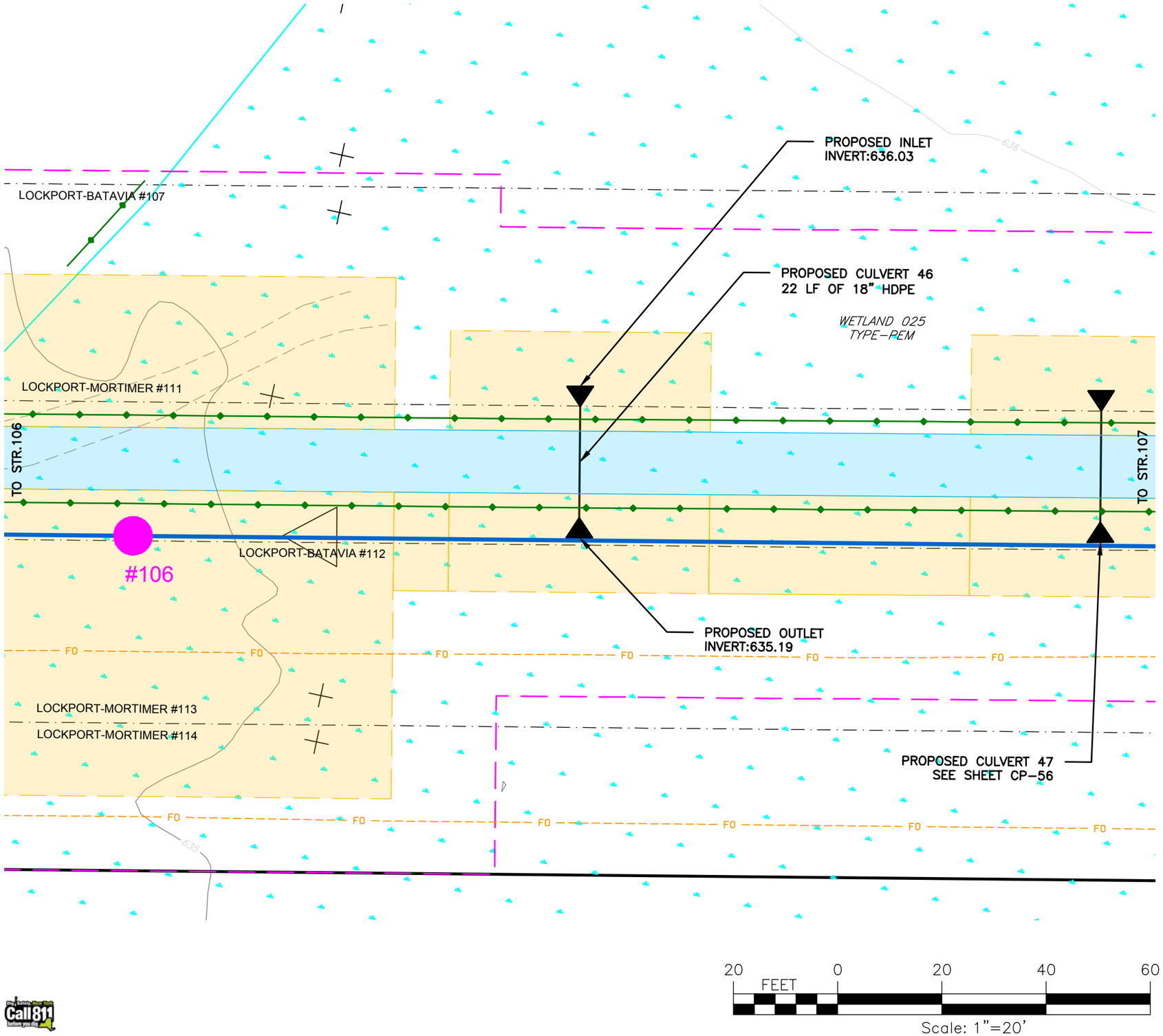

NOTES:

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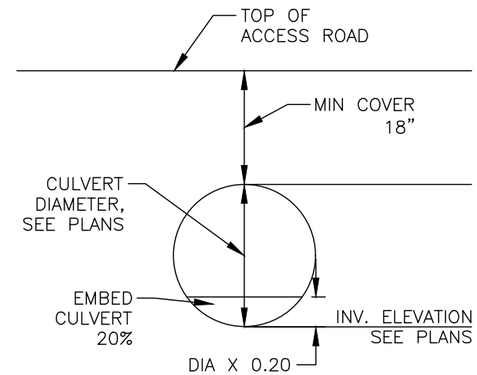
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
KEY INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-55

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 025 TYPE-PEM CULVERT

nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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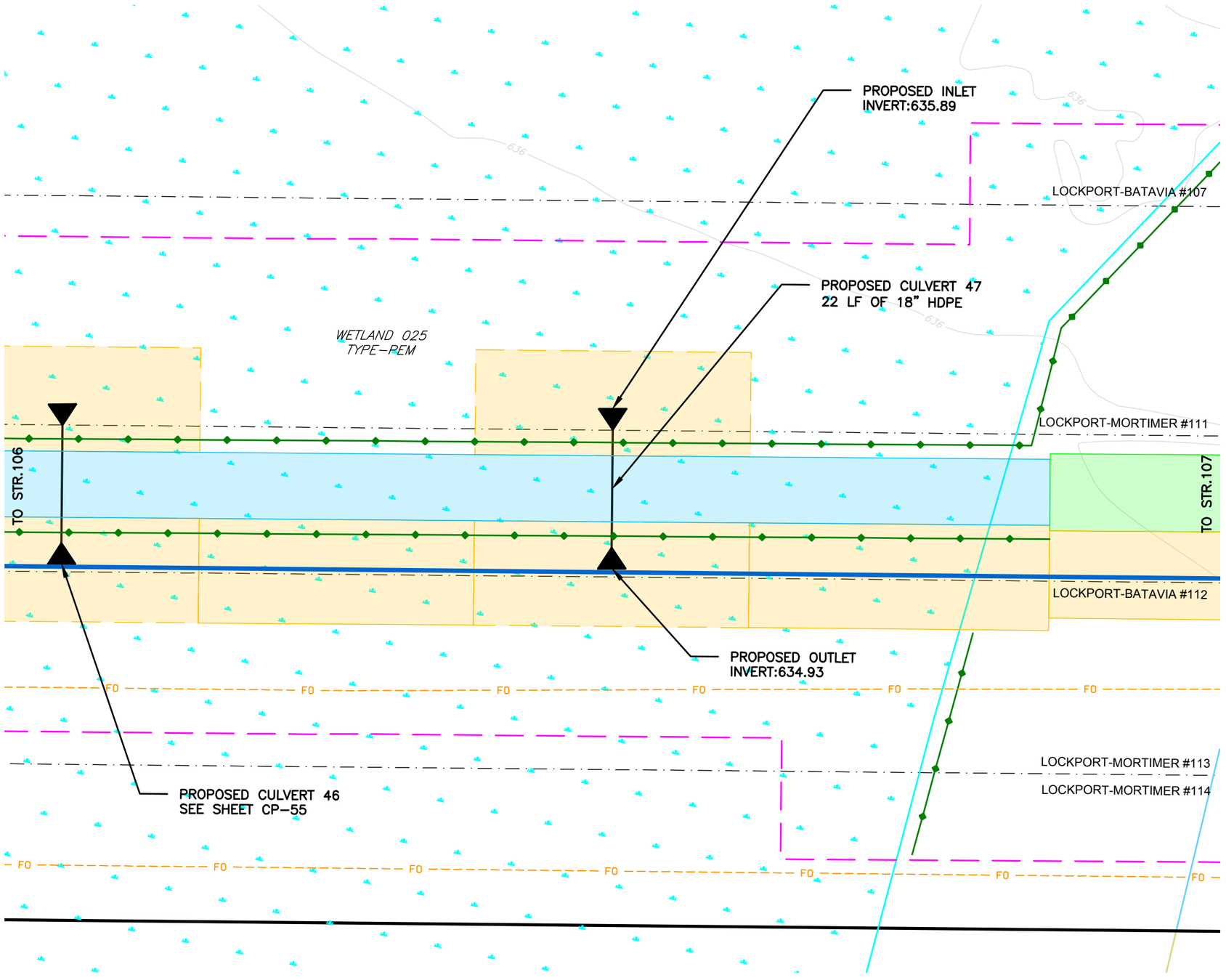

NOTES:

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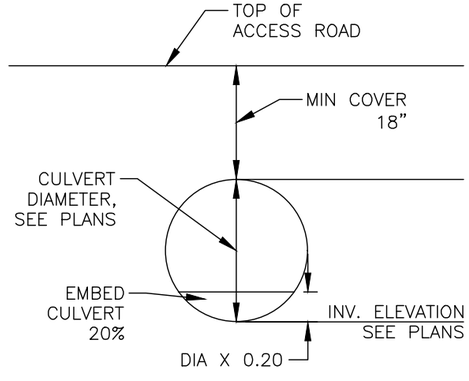
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-56

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 025 TYPE-PEM CULVERT

nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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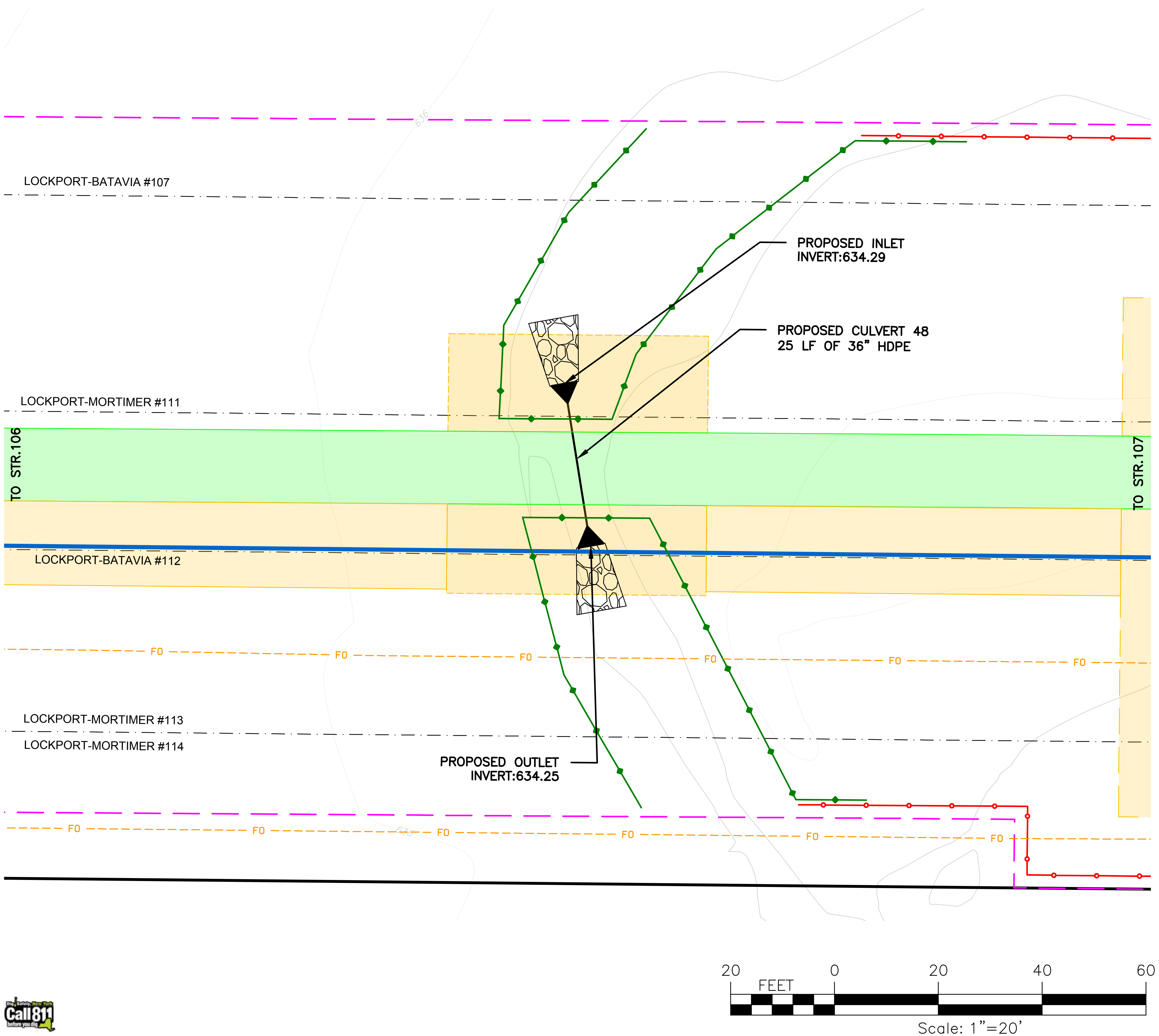
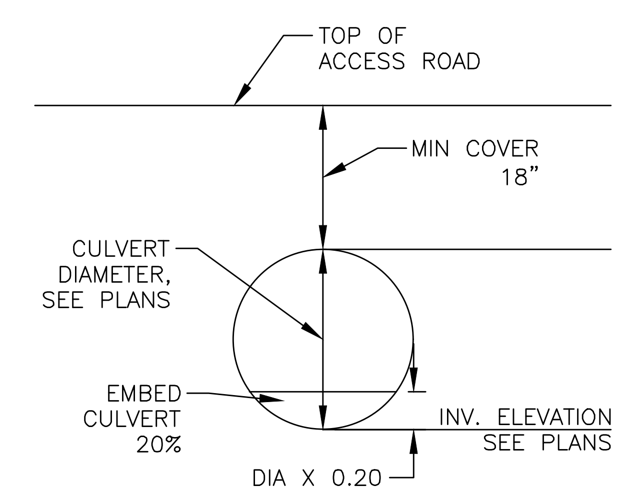


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 36" DIA. 25' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP–05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
36" PROPOSED CULVERT

ORIGINAL ISSUE DATE 6/06/25
FILE INDEX 6.1-L10-M5
DRAWING NUMBER L1-41568
SHEET NUMBER CP-57

nationalgrid

PREPARED BY
ACCOUNT NUMBER

DES. APPROVED H.P
DR. APPROVED FISHER
CK. APPROVED RWVL
APPROVED RWVL

NO. DATE DESCRIPTION OF ISSUE OR REVISION DR. CK. APP.

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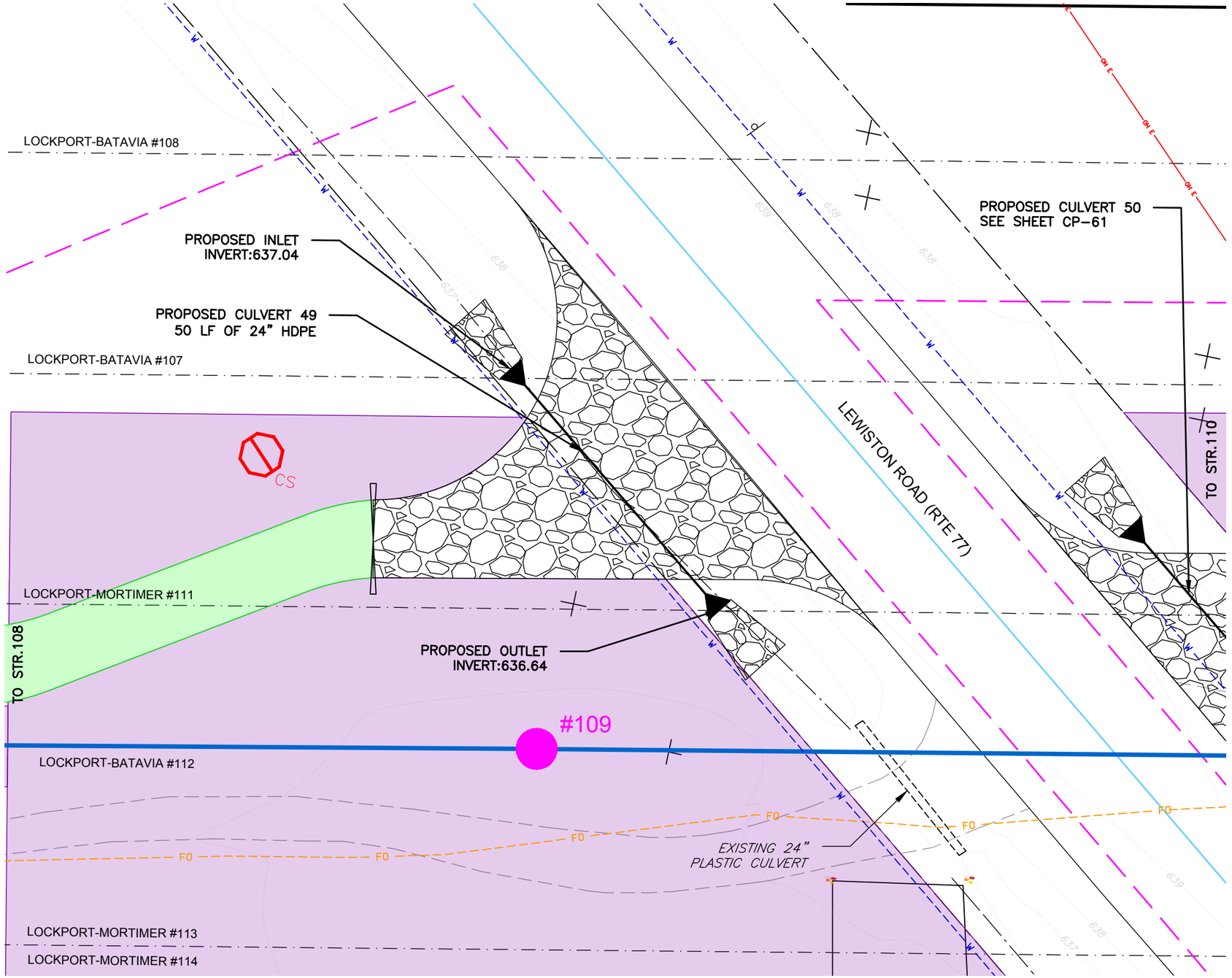
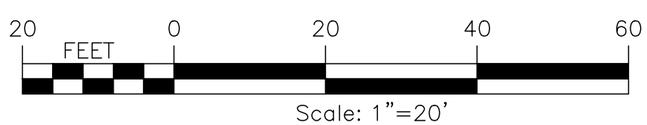
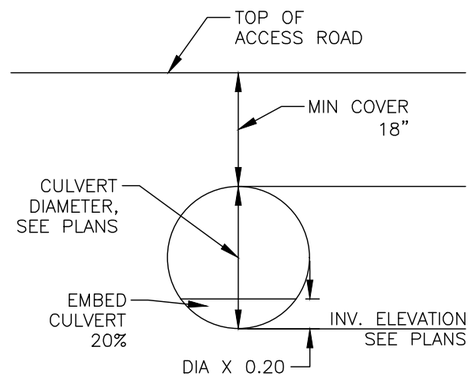


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 24" DIA. 14' PLASTIC CULVERT.
4. INSTALL 24" DIA. 50' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.





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ORIGINAL ISSUE DATE	6/06/25
AS-BUILT INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-58

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
24" ACCESS CULVERT - LEWISTON ROAD

nationalgrid

DES	APPROVED H.P	PREPARED BY	ACCOUNT NUMBER
DR.	APPROVED FISHER		
CK.	APPROVED RW/VL		
	APPROVED RW/VL		

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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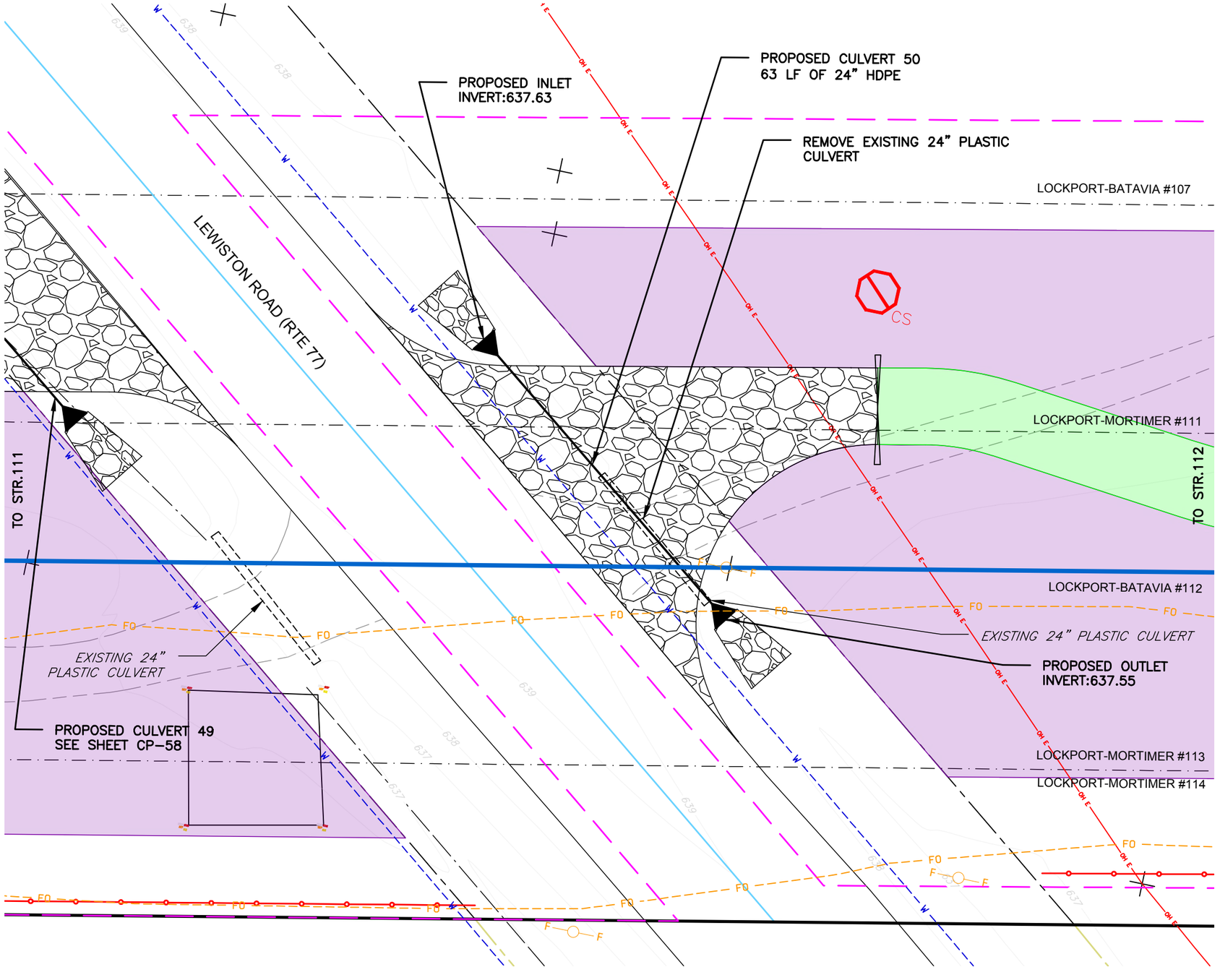
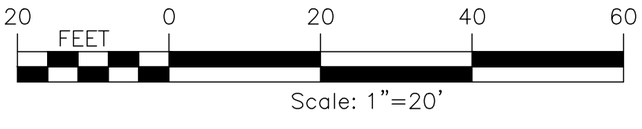
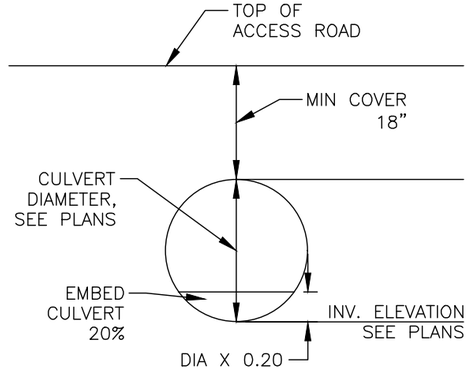




NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 24" DIA. 12.5' PLASTIC CULVERT.
4. INSTALL 24" DIA. 63' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
24" ACCESS CULVERT - LEWISTON ROAD

ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-59

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY: nationalgrid
ACCOUNT NUMBER:

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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LOCKPORT-BATAVIA #107

PROPOSED INLET
INVERT:636.69

LOCKPORT-MORTIMER #111

TO STR.113

TO STR.112

LOCKPORT-BATAVIA #112

PROPOSED CULVERT 51
22 LF OF 18" HDPE

PROPOSED OUTLET
INVERT:636.68

FO

LOCKPORT-MORTIMER #113

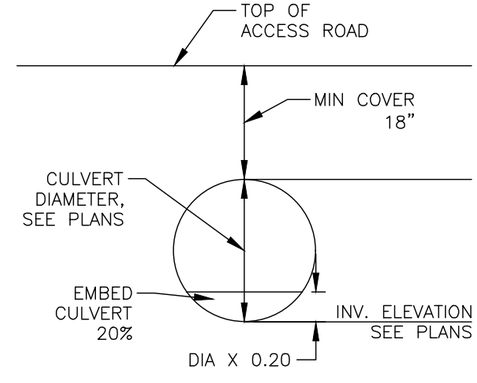
LOCKPORT-MORTIMER #114

20 FEET 0 20 40 60

Scale: 1"=20'

NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 026 TYPE-PEM CULVERT

ORIGINAL ISSUE DATE: 6/06/25
M.E. INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-60

DES. H.P APPROVED
DR. FISHER APPROVED
CK. RW/VL APPROVED
RW/VL APPROVED

PREPARED BY
nationalgrid
ACCOUNT NUMBER

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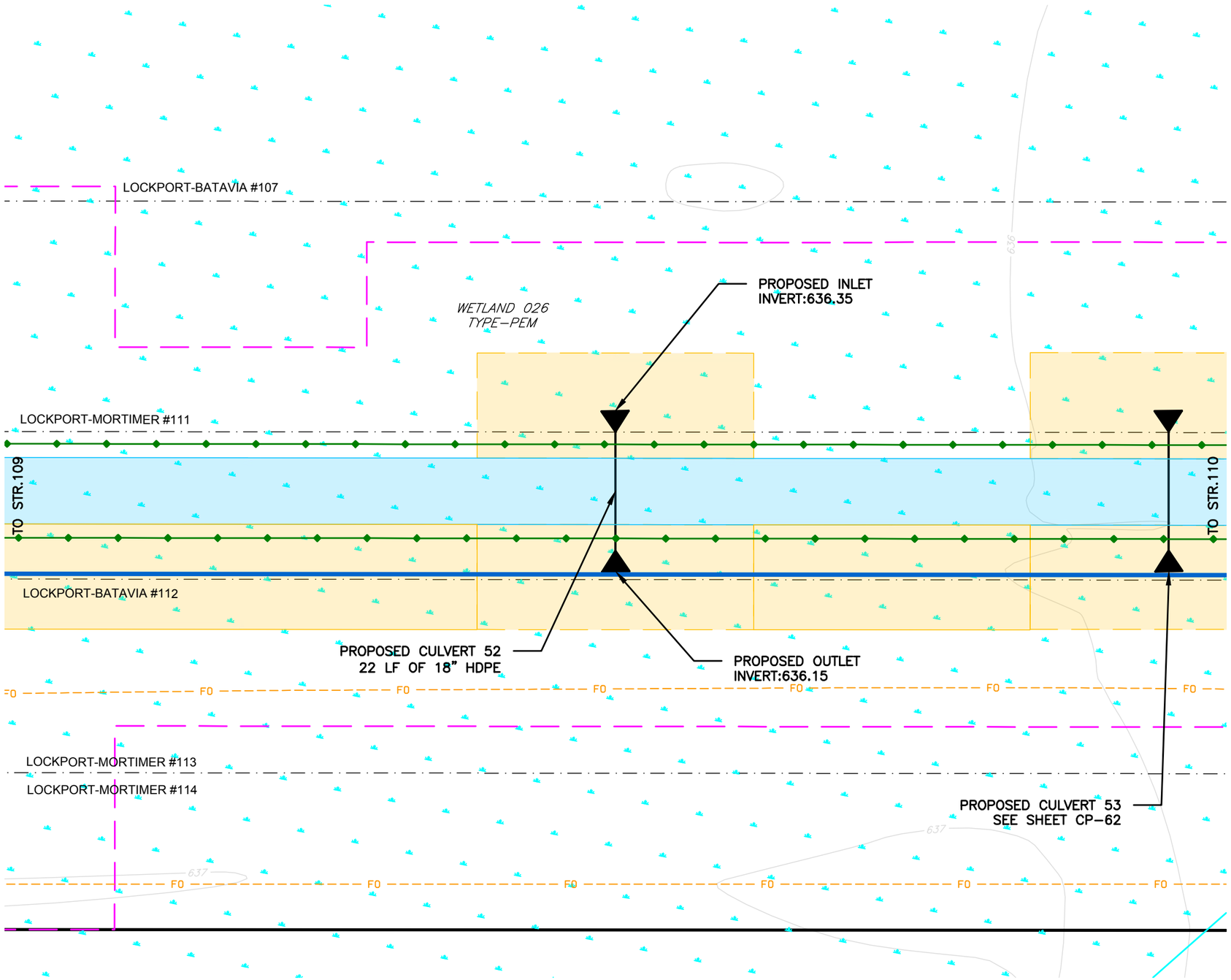
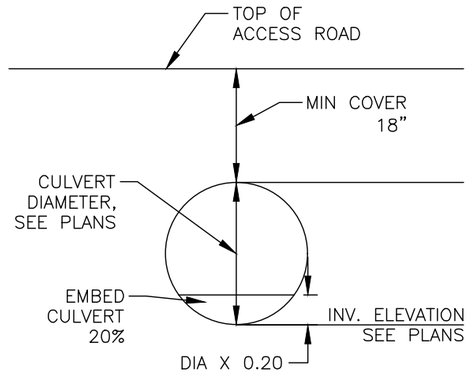


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
M.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-61

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 026 TYPE-PEM CULVERT

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY: nationalgrid
ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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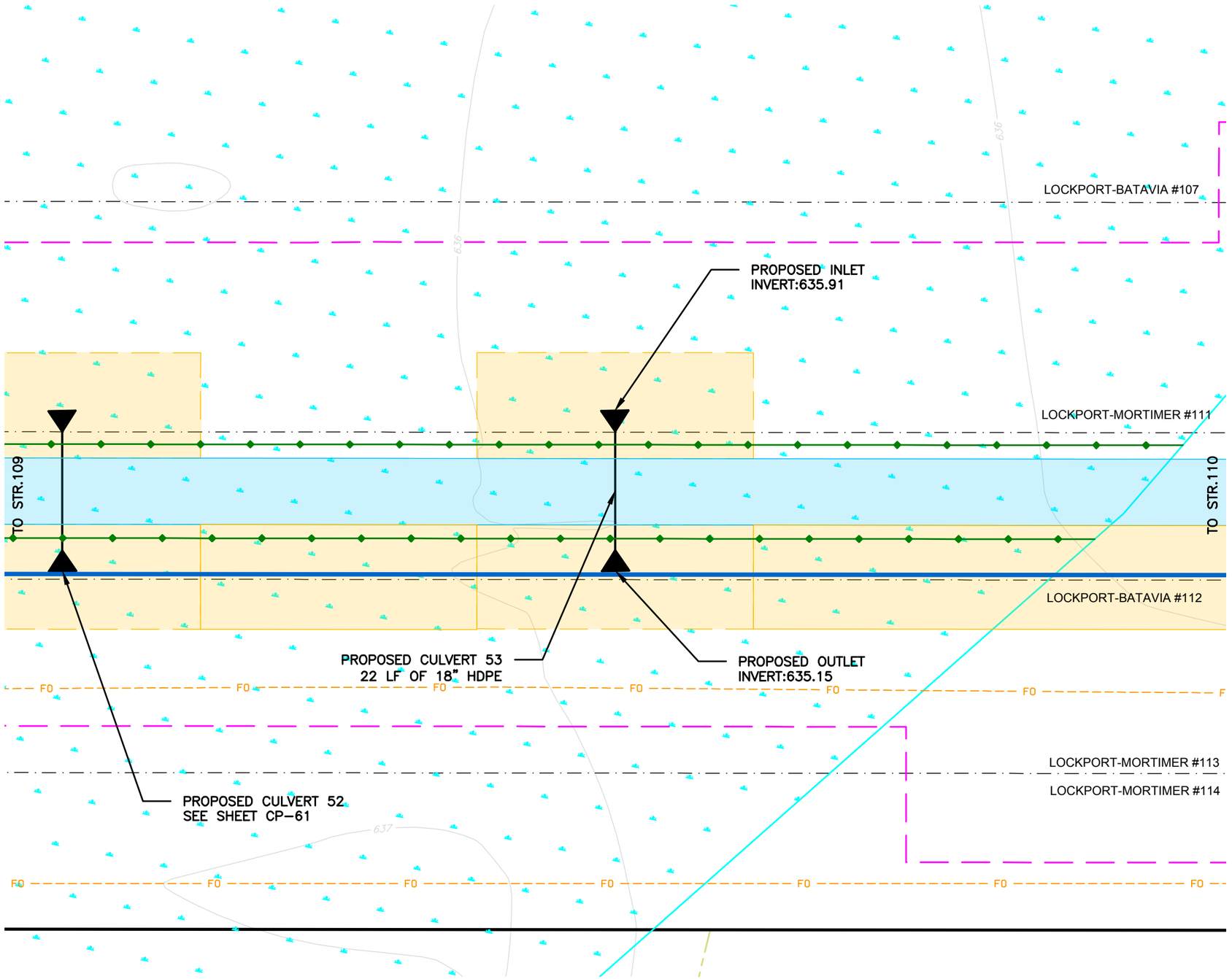
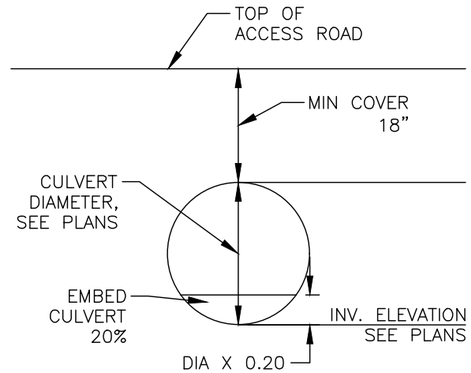


20 0 20 40 60
FEET
Scale: 1"=20'

NOTES:
1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 22' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



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CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
WETLAND 026 TYPE-PEM CULVERT

ORIGINAL ISSUE DATE: 6/06/25
R.E. INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-62

DES. H.P APPROVED
DR. FISHER APPROVED
CK. RW/VL APPROVED
APP. RW/VL APPROVED

PREPARED BY: nationalgrid
ACCOUNT NUMBER

NO. | DATE | DESCRIPTION OF ISSUE OR REVISION | DR. | CK. | APP.

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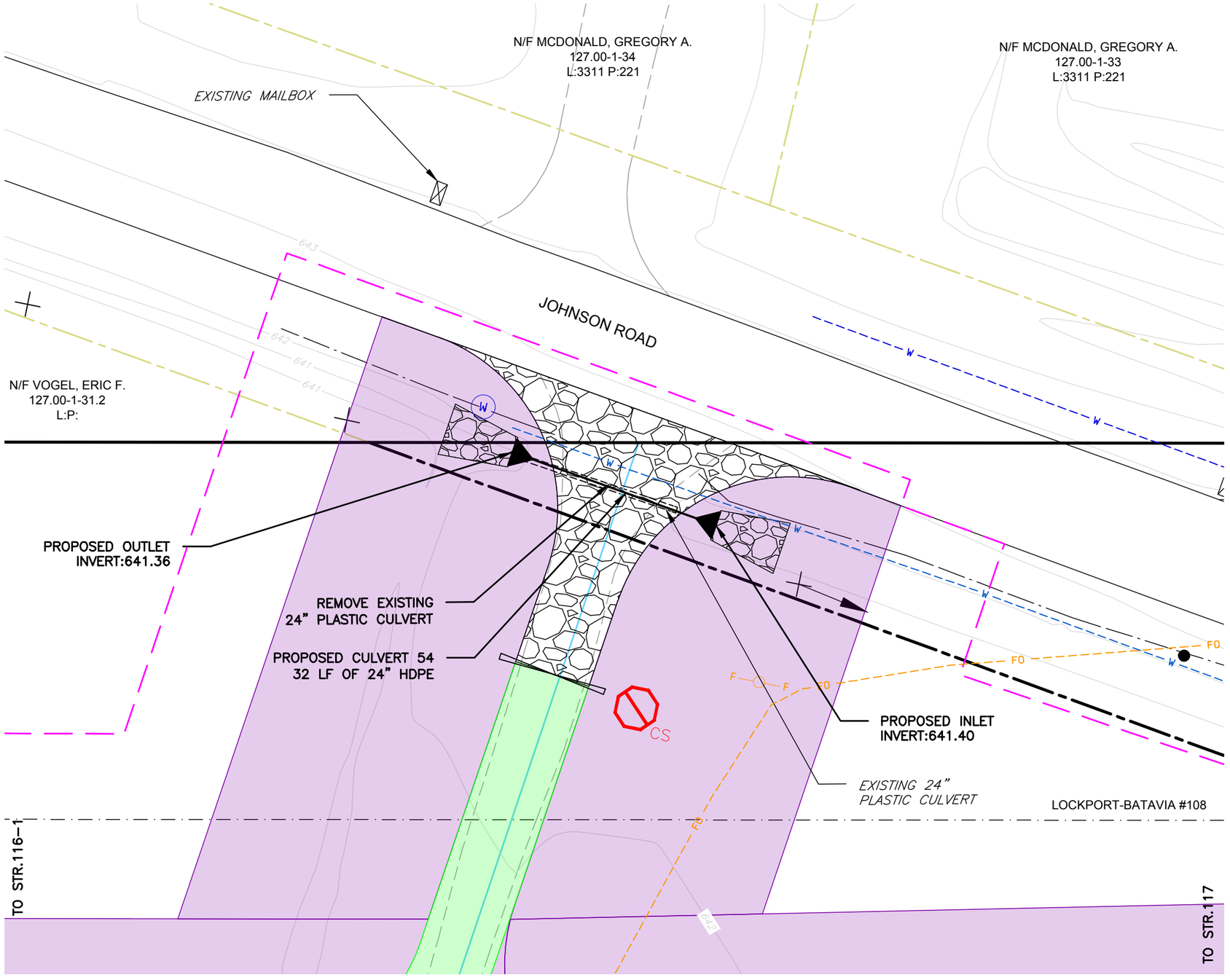
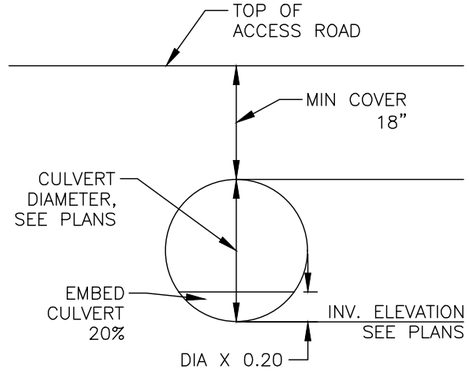


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 24" DIA. 11.5' PLASTIC CULVERT.
4. INSTALL 24" DIA. 32' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.

20 FEET 0 20 40 60

Scale: 1"=20'



ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-63

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
24" ACCESS CULVERT - JOHNSON ROAD

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

PREPARED BY

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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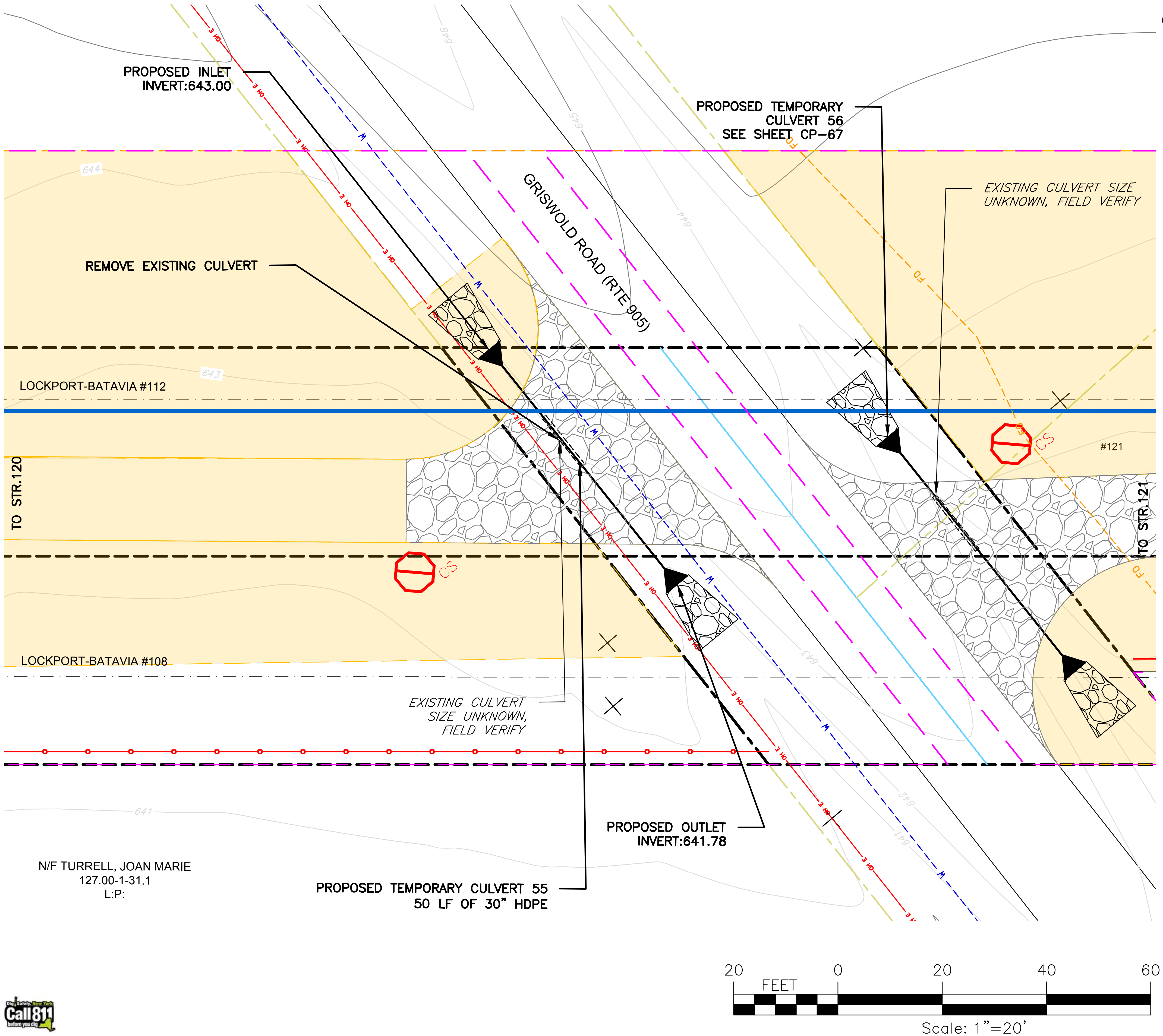
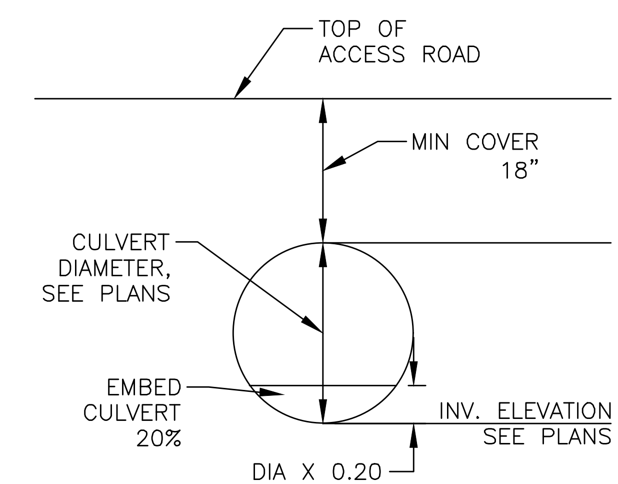


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING CULVERT. SIZE UNKNOWN
4. INSTALL 30" DIA. 50' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.



CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
30" ACCESS CULVERT - GRISWOLD STREET

nationalgrid

ORIGINAL ISSUE DATE	6/06/25
FILE INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-64
DES.	H.P
DR.	FISHER
CK.	RWVL
APP.	RWVL

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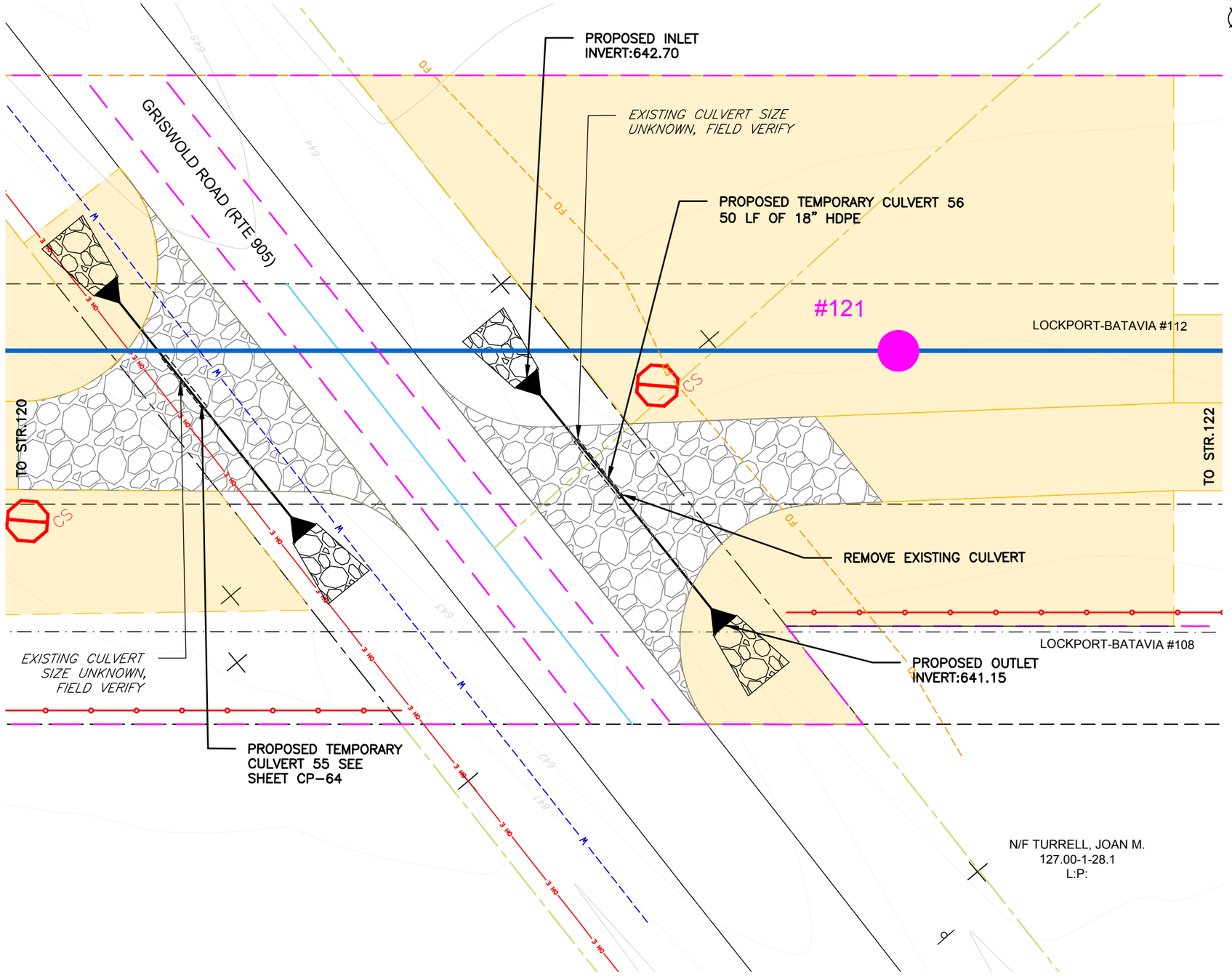
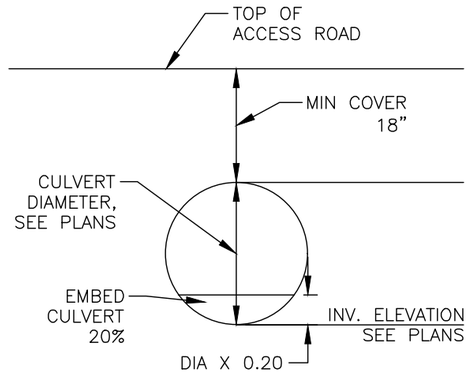


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING CULVERT. SIZE UNKNOWN.
4. INSTALL 18" DIA. 50' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.

20 FEET 0 20 40 60

Scale: 1"=20'



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ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-65

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - GRISWOLD STREET

nationalgrid

DES.	H.P		
APPROVED			
DR.	FISHER		
APPROVED			
CK.	RWVL		
APPROVED			
APP.	RWVL		
APPROVED			

PREPARED BY

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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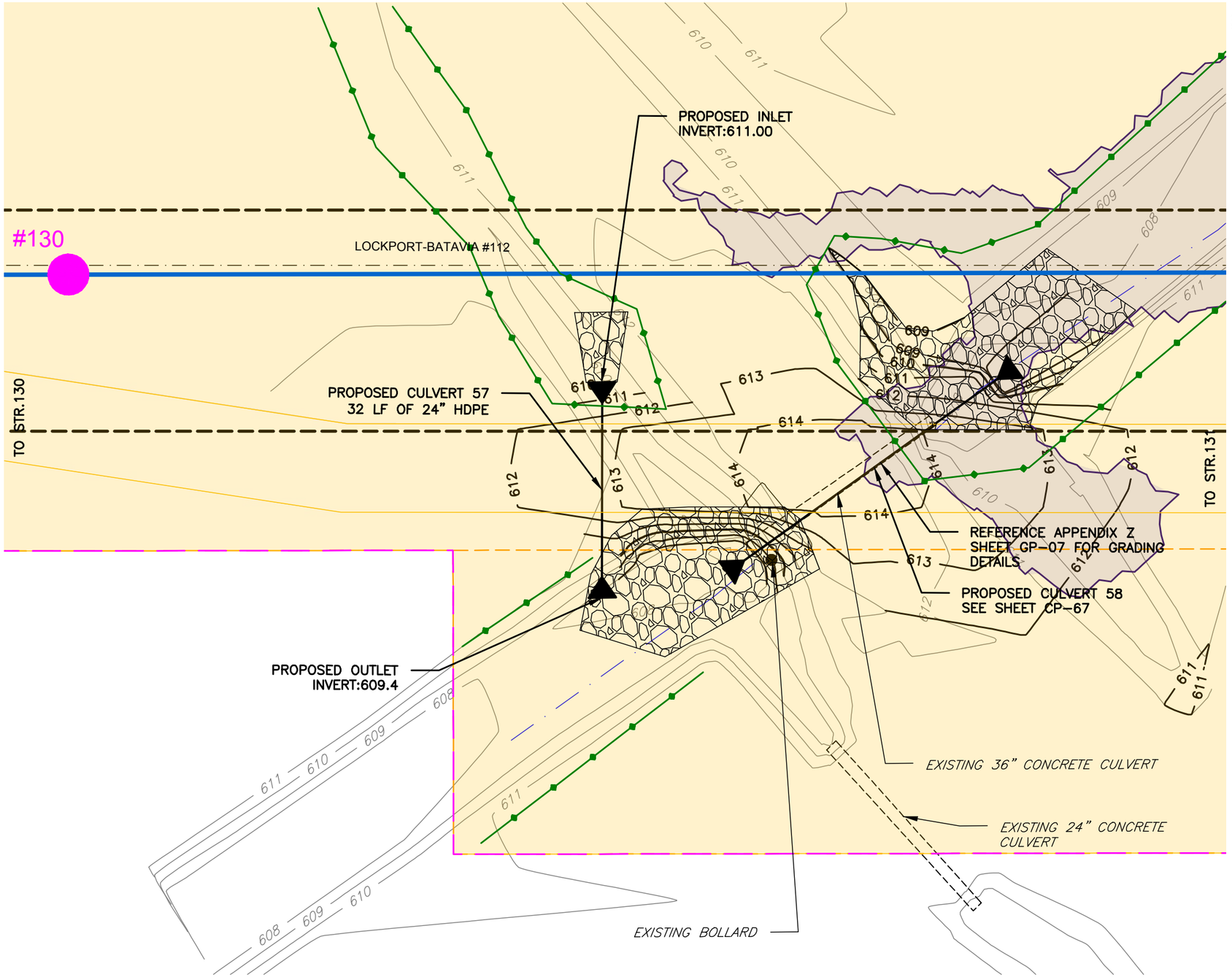
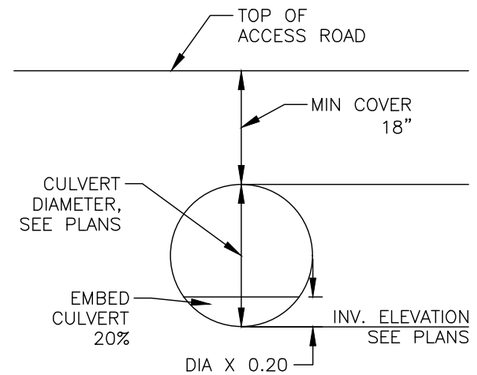


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. DERIVED FROM A TOPOGRAPHIC SURVEY PERFORMED BY FISHER ASSOCIATES IN AUGUST OF 2023. THE CONTRACTOR SHALL VERIFY THE ACCURATE PRIOR TO CONSTRUCTION.
4. INSTALL 24" DIA. 32' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.

20 FEET 0 20 40 60

Scale: 1"=20'



ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-66

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
NYSDEC STREAM 010 CROSSING CULVERT

DES.	APPROVED H.P
DR.	APPROVED FISHER
CK.	APPROVED RW/VL
	APPROVED RW/VL

PREPARED BY: nationalgrid ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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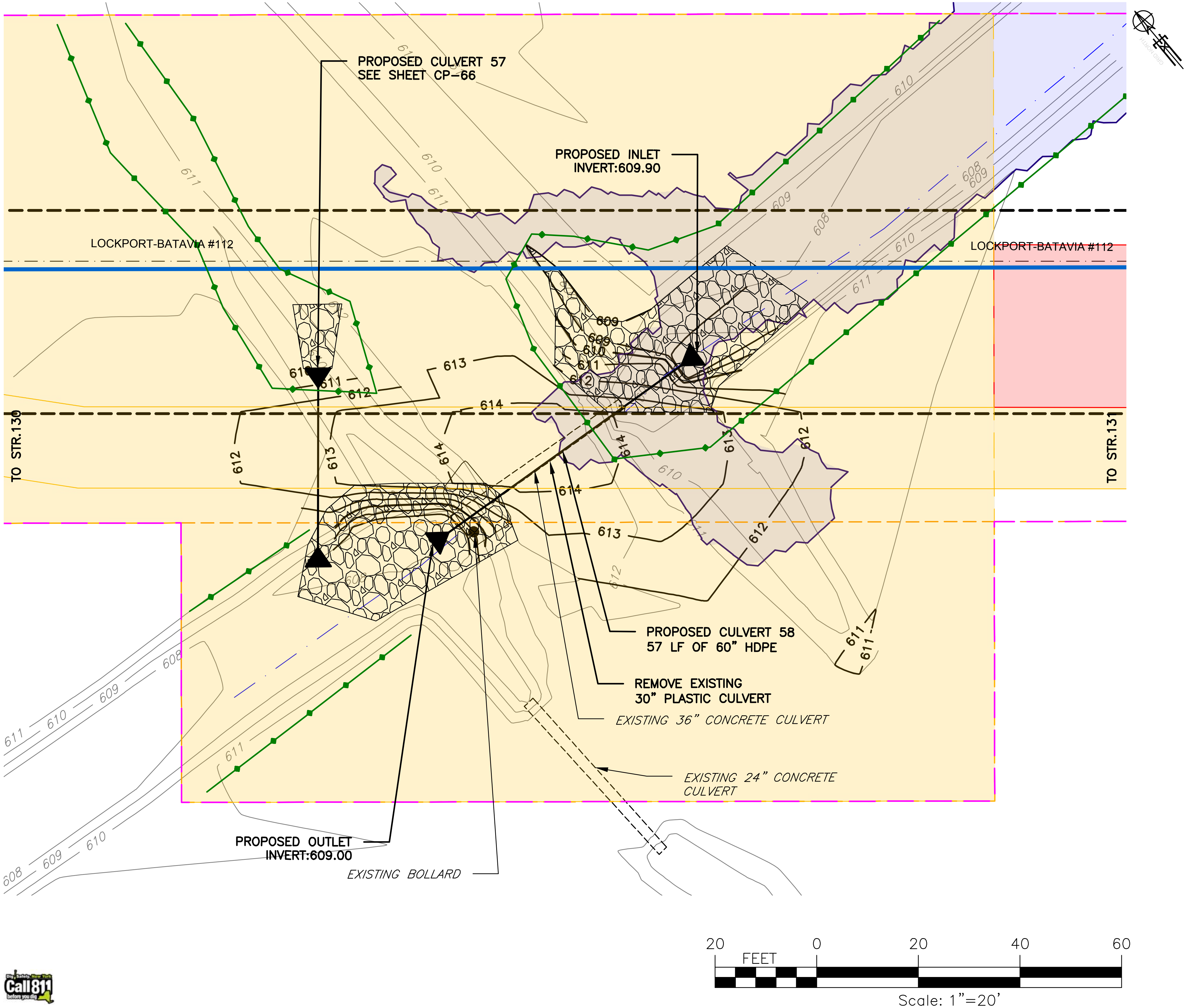
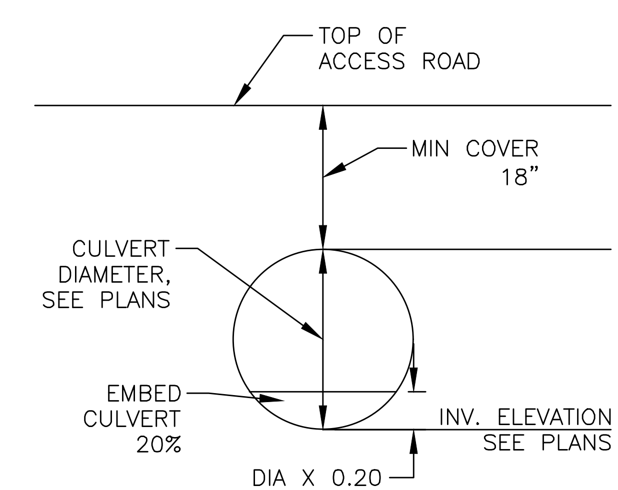


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. DERIVED FROM A TOPOGRAPHIC SURVEY PERFORMED BY FISHER ASSOCIATES IN AUGUST OF 2023. THE CONTRACTOR SHALL VERIFY THE ACCURATE PRIOR TO CONSTRUCTION.
4. REMOVE EXISTING 36" DIA. 17' CONCRETE CULVERT.
5. INSTALL 60" DIA. 57' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
6. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
7. 0.5% MINIMUM SLOPE REQUIRED.
8. EMBED 20% (MIN.) INTO NATIVE GROUND.
9. 18" MIN. COVER REQUIRED.
10. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
11. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
12. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
13. SEE SHEET CP-05 FOR LEGEND INFORMATION.



ORIGINAL ISSUE DATE	6/06/25
FILE INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-67

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
NYSDEC STREAM 010 CROSSING CULVERT

PREPARED BY nationalgrid

ACCOUNT NUMBER

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

NO	DATE	DESCRIPTION OF ISSUE OR REVISION	DR	CK	APP

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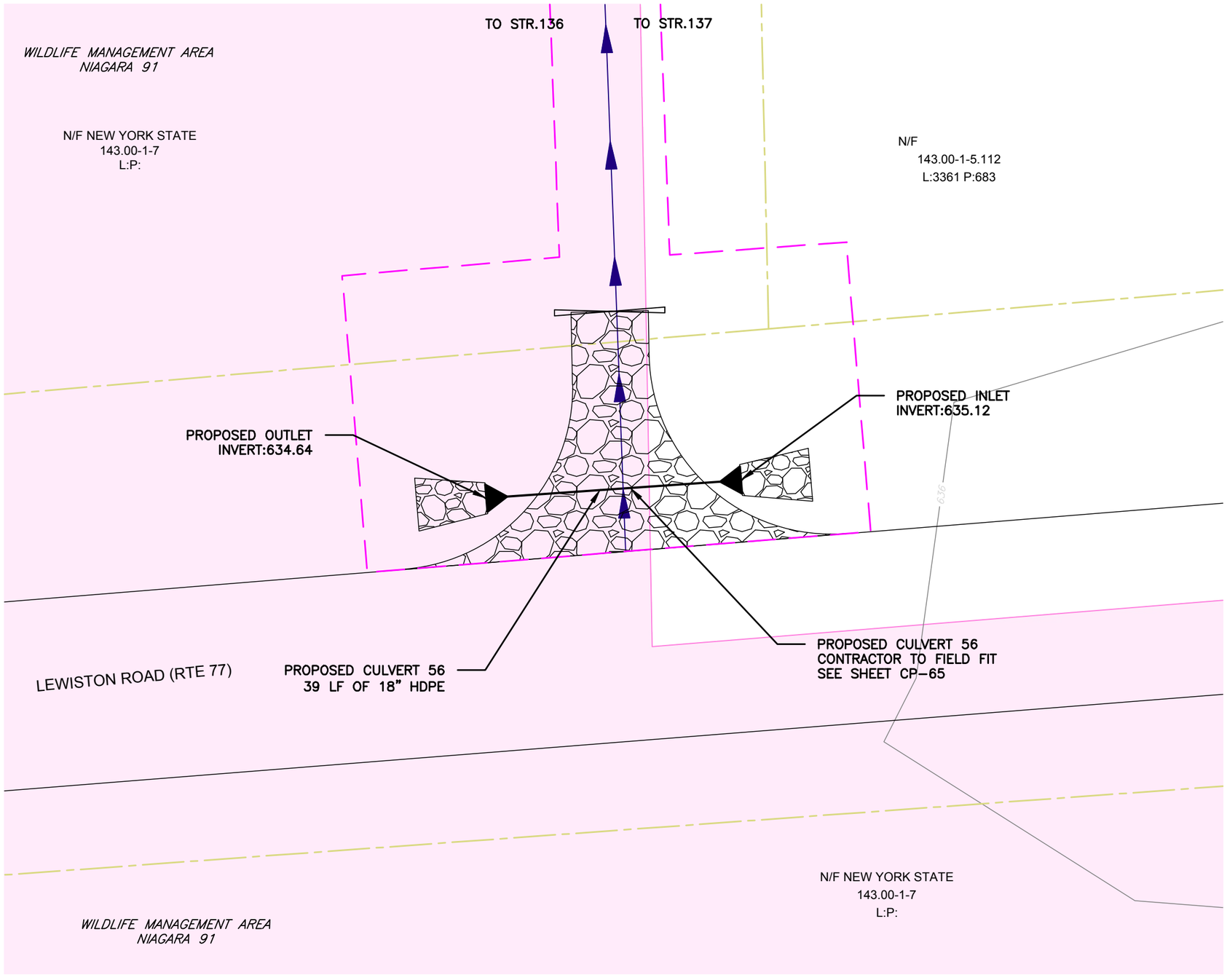
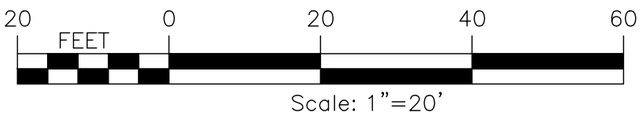
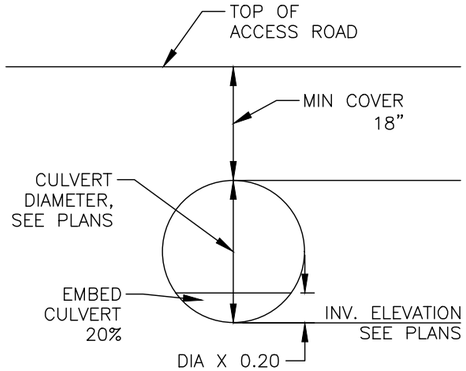


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 39' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.





ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-68

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - LEWISTON ROAD

PREPARED BY: nationalgrid

DES.	APPROVED H.P		
DR.	APPROVED FISHER		
CK.	APPROVED RWVL		
	APPROVED RWVL		

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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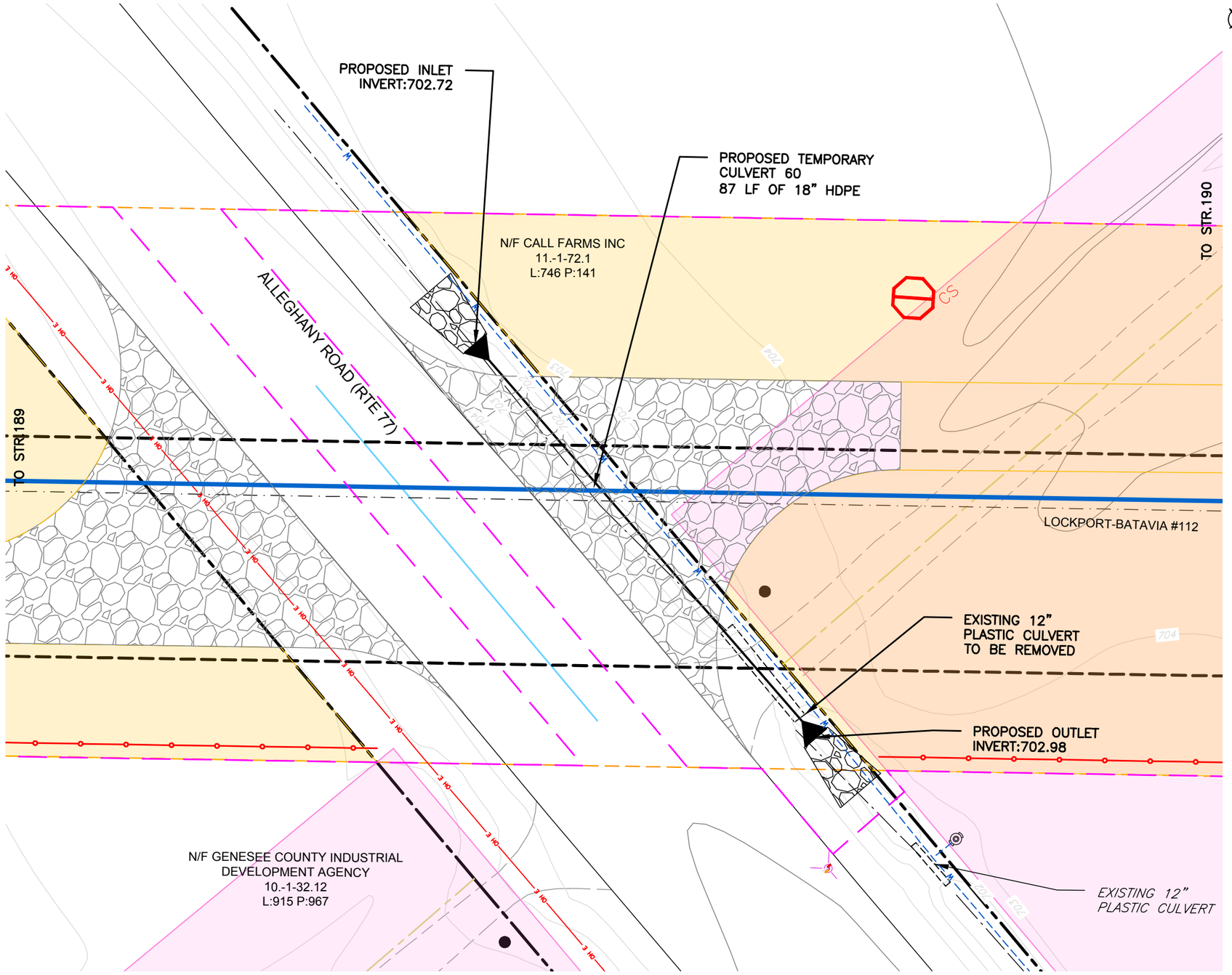
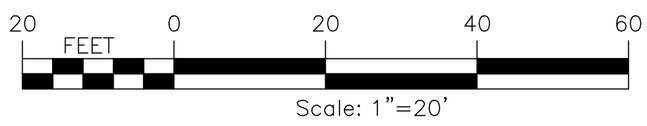
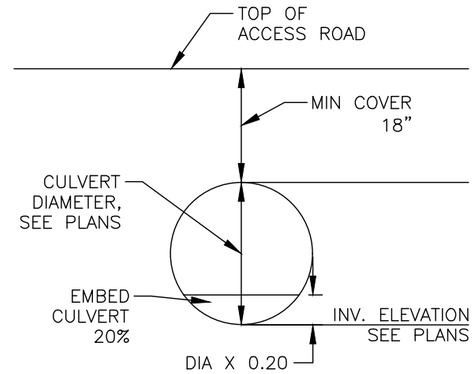


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. REMOVE EXISTING 12" DIA. 10' PLASTIC CULVERT.
4. INSTALL 18" DIA. 87' HDPE CULVERT, END SECTIONS, AND INLET AND OUTLET PROTECTION, ALIGNED WITHIN EXISTING STREAM CHANNEL.
5. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
6. 0.5% MINIMUM SLOPE REQUIRED.
7. EMBED 20% (MIN.) INTO NATIVE GROUND.
8. 18" MIN. COVER REQUIRED.
9. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
10. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
11. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
12. SEE SHEET CP-05 FOR LEGEND INFORMATION.





ORIGINAL ISSUE DATE	6/06/25
K.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-69

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - ALLEGHANY ROAD

nationalgrid

PREPARED BY

DES.	APPROVED	H.P	
DR.	APPROVED	FISHER	
CK.	APPROVED	RW/VL	
	APPROVED	RW/VL	

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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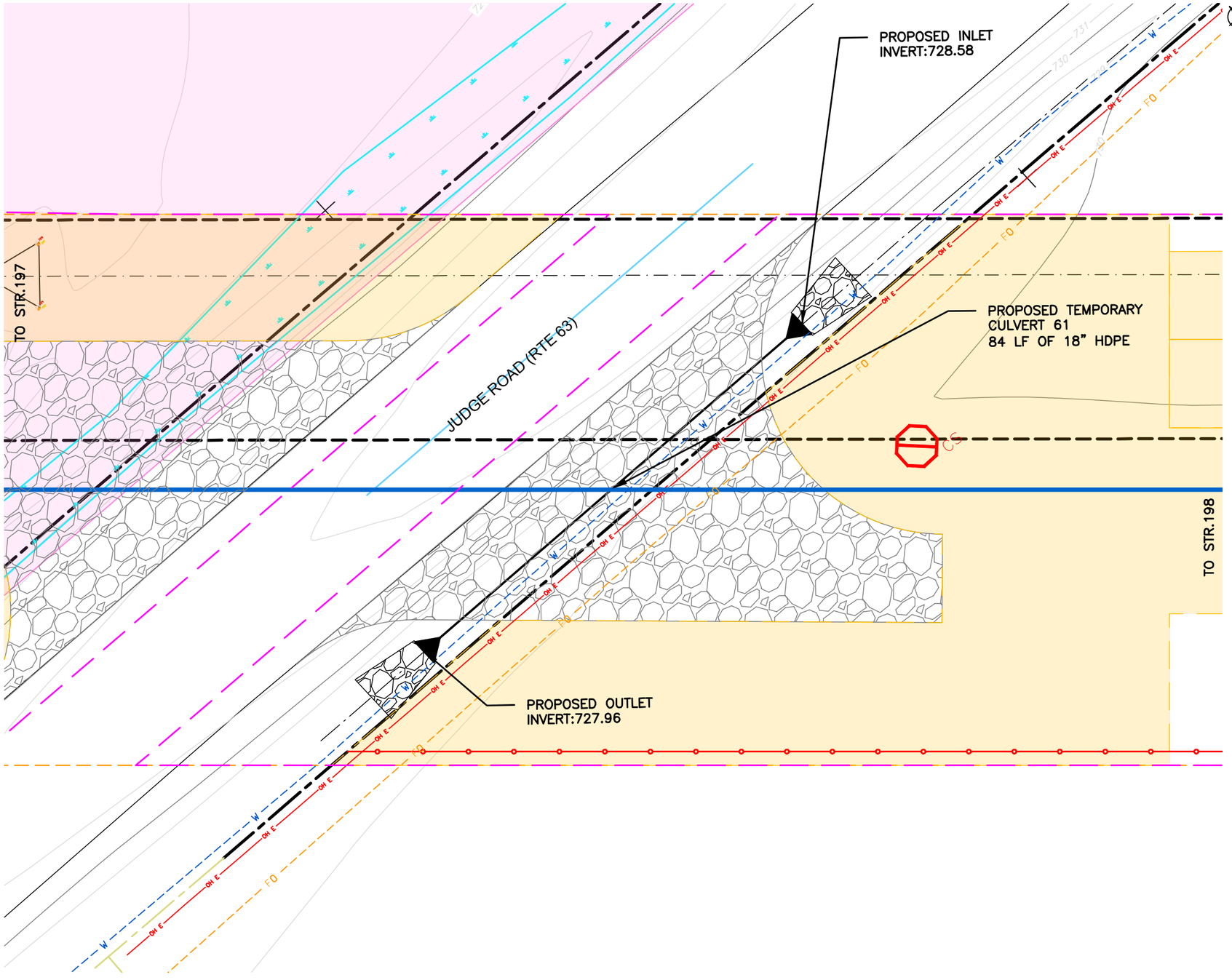
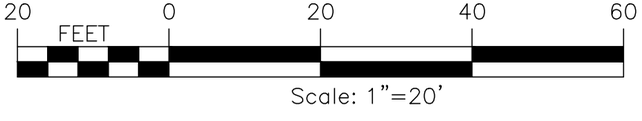
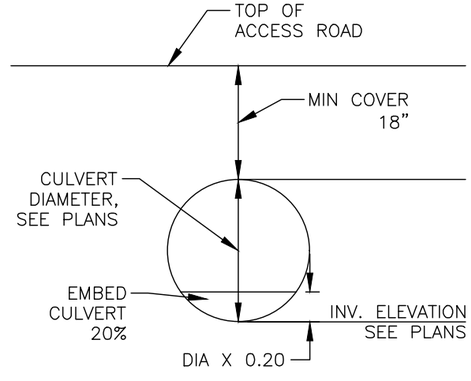


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 84' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP–06 THROUGH CP–09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP–05 FOR LEGEND INFORMATION.





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ORIGINAL ISSUE DATE	6/06/25
R.E. INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-70

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - JUDGE ROAD

PREPARED BY

nationalgrid

	APPROVED	
DES	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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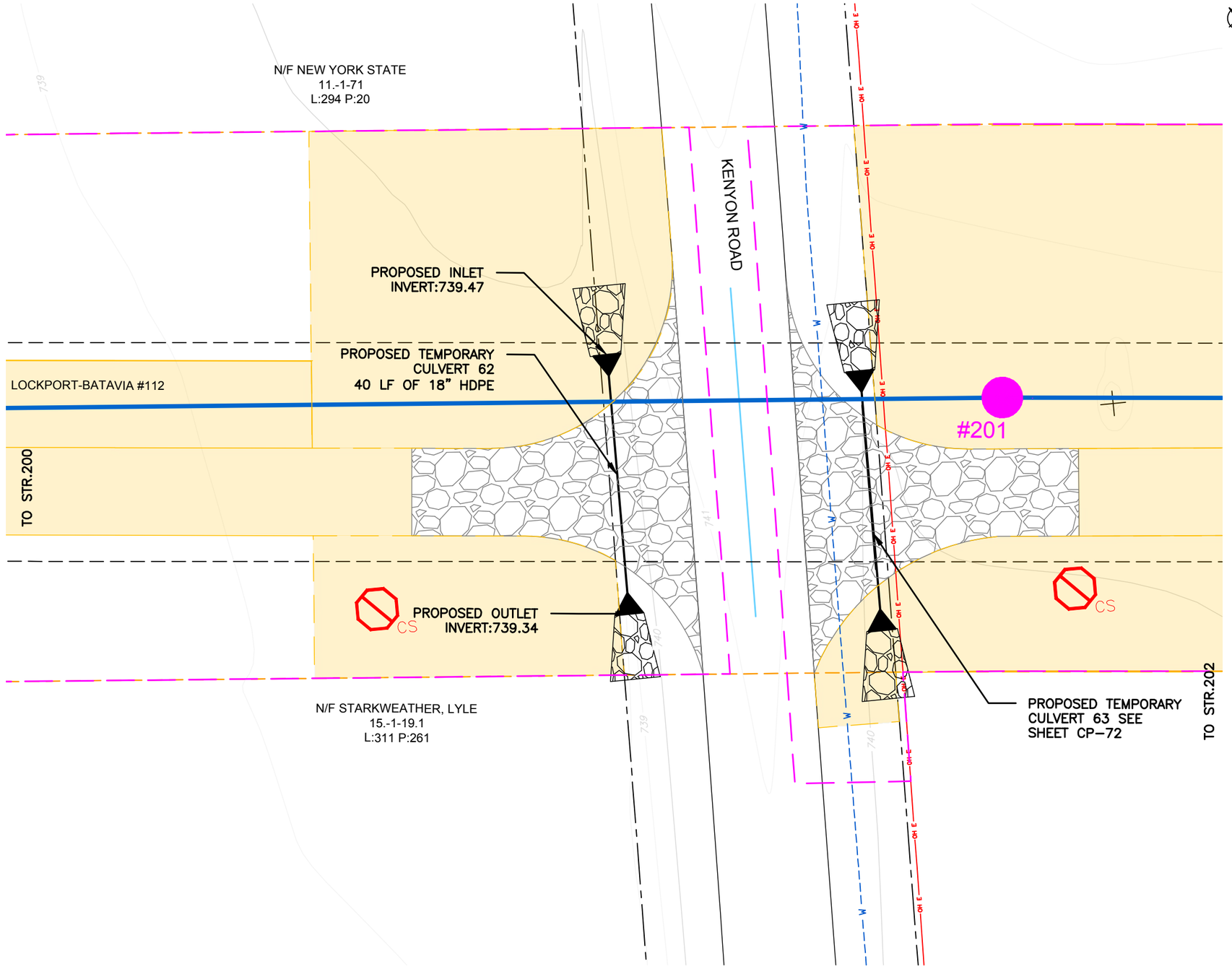
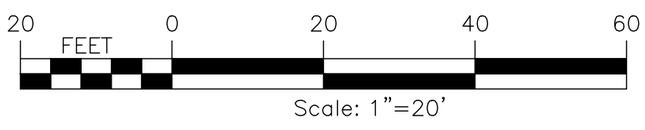
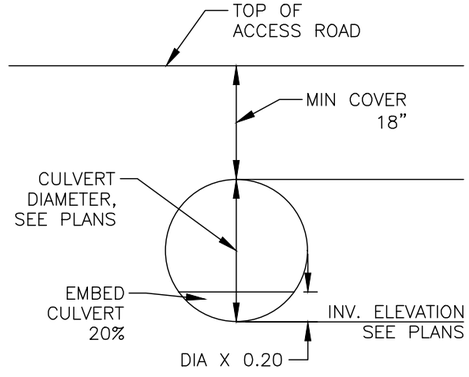


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 40' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.





CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - KENYON AVENUE

ORIGINAL ISSUE DATE: 6/06/25
R.E. INDEX: 6.1-L10-M5
DRAWING NUMBER: L1-41568
SHEET NUMBER: CP-71

PREPARED BY: nationalgrid

DES.	APPROVED	H.P
DR.	APPROVED	FISHER
CK.	APPROVED	RW/VL
	APPROVED	RW/VL

ACCOUNT NUMBER

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.

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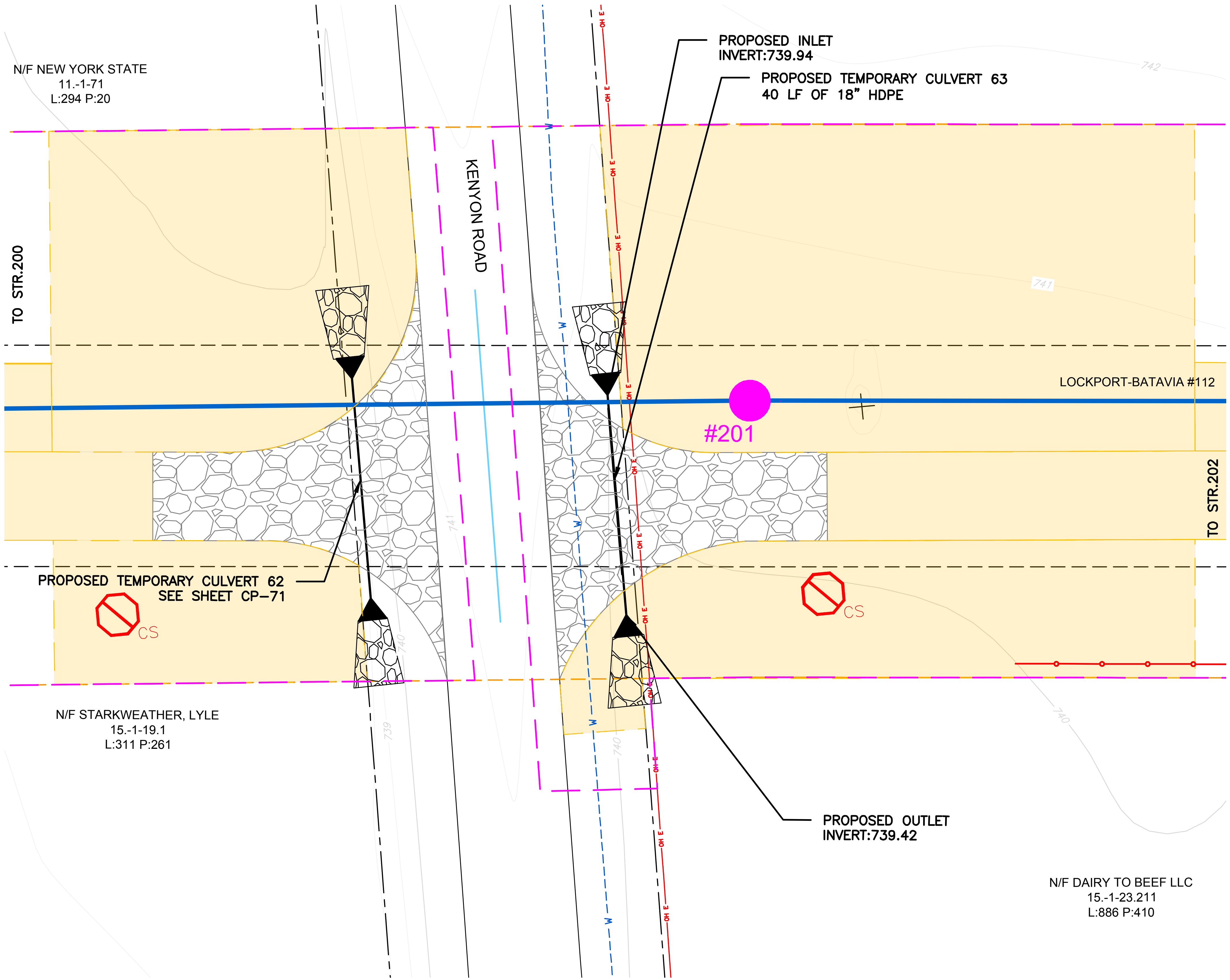
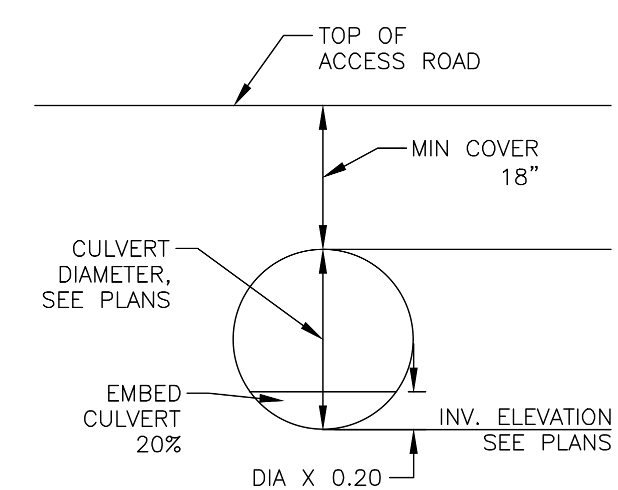


NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANES, WEST ZONE.
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88)
3. INSTALL 18" DIA. 40' HDPE CULVERT AND END SECTIONS.
4. SEE DETAIL CP-06 THROUGH CP-09 OF APPENDIX Y SET FOR CULVERT INFORMATION.
5. 0.5% MINIMUM SLOPE REQUIRED.
6. EMBED 20% (MIN.) INTO NATIVE GROUND.
7. 18" MIN. COVER REQUIRED.
8. DIMENSIONS PROVIDED ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS.
9. INSTALL EROSION CONTROLS AS SHOWN AND AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.
10. REFER TO EM&CP PLAN SET FOR STORMWATER DESIGN OF ACCESS
11. SEE SHEET CP-05 FOR LEGEND INFORMATION.



20 FEET 0 20 40 60

Scale: 1"=20'

ORIGINAL ISSUE DATE	6/06/25
FILE INDEX	6.1-L10-M5
DRAWING NUMBER	L1-41568
SHEET NUMBER	CP-72

CULVERT PLAN
LOCKPORT-BATAVIA 112
REBUILD PROJECT
18" ACCESS CULVERT - KENYON AVENUE

nationalgrid

DES. H.P
DR. FISHER
CK. APPROVED RWVL
APPROVED RWVL

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