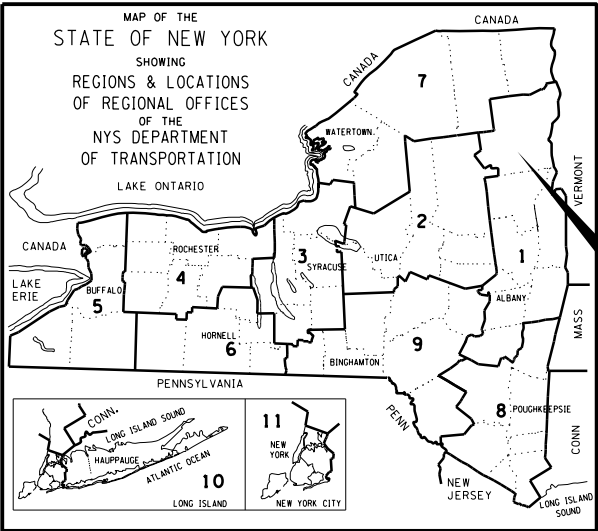


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DATE/TIME = 4/4/2023  
USER = kdetrack

DESIGN SUPERVISOR D. ADAMS JOB MANAGER A. TRICHILO  
CHECKED BY L. SHORT  
ESTIMATED BY J. OU/C. OROPALLO  
DRAFTED BY J. OU/C. OROPALLO  
DESIGNED BY J. OU/C. OROPALLO



MULTI SITE CULVERT REPLACEMENTS:  
LOA 2 - TRACY ROAD CULVERT AT FEEDER POND OUTLET  
FEMA PROJECT #133369  
LOA 3 - JOHNSON POND ROAD CULVERT  
FEMA PROJECT #133370  
LOA 7 - EMERSON ROAD CULVERT  
FEMA PROJECT #133373  
TOWNS OF MORIAH, NORTH HUDSON, SCHROON  
ESSEX COUNTY, NY

PREPARED FOR:  
ESSEX COUNTY DEPARTMENT  
OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETH, NY 12932

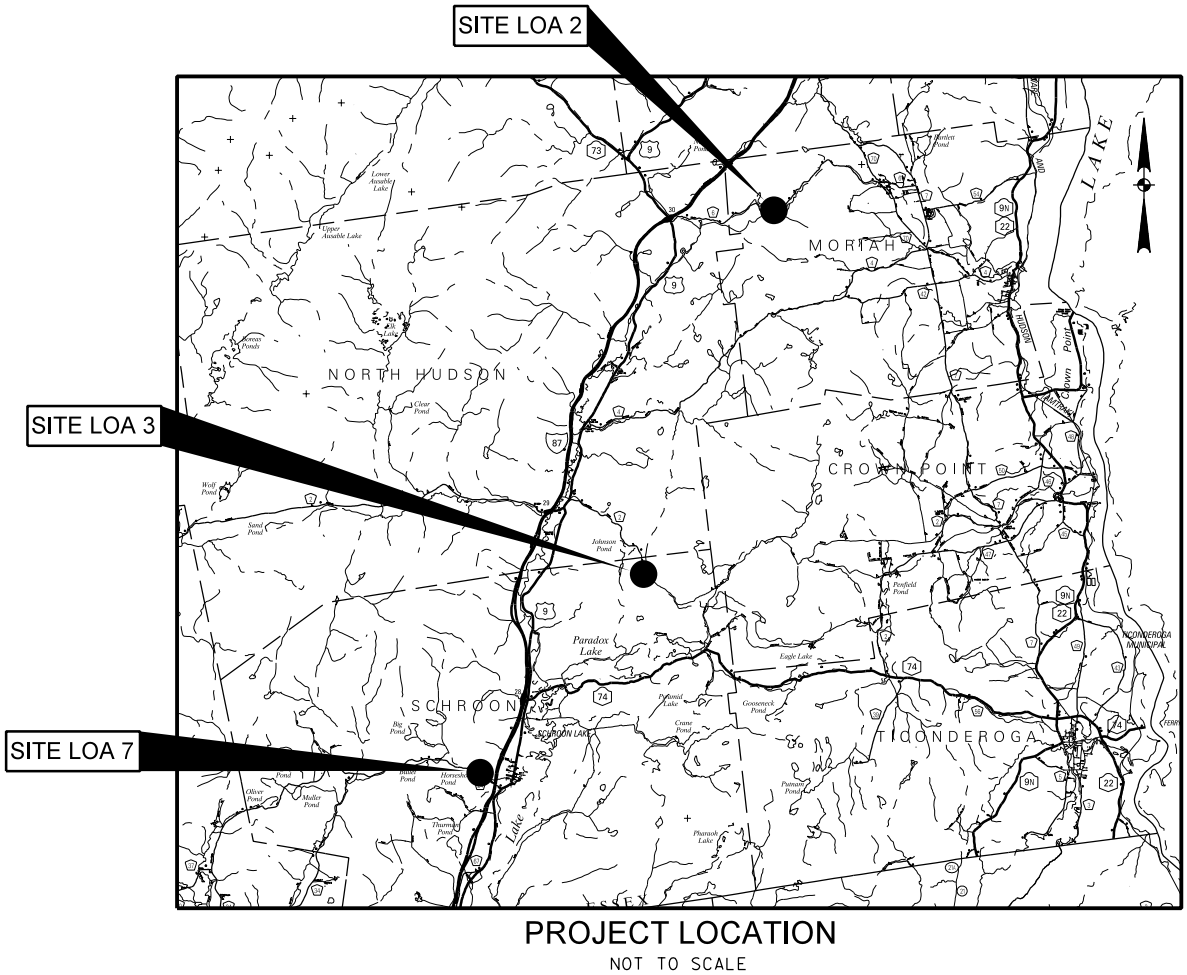
THE LATEST REVISIONS OF THE NYSOT STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT AS OF THE STANDARD SPECIFICATIONS ADOPTION DATE SHOWN ON THE PROPOSAL COVER, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE NYSOT STANDARD SPECIFICATIONS (US CUSTOMARY) MAINTAINED BY THE DEPARTMENT WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT DOCUMENTS.

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSOT POLICIES AND GUIDELINES.

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| SITE  | FEATURE CARRIED        | FEATURE CROSSING   | LATITUDE/LONGITUDE          | TOWN         | PROPOSED STRUCTURE TYPE |
|-------|------------------------|--------------------|-----------------------------|--------------|-------------------------|
| LOA 2 | TRACY ROAD (CR 6)      | FEEDER POND OUTLET | 44°04'49.9" N/73°36'35.3" W | MORIAH       | PRECAST BOX CULVERT     |
| LOA 3 | JOHNSON POND RD (CR 2) | UNKNOWN STREAM     | 43°56'57.2" N/73°42'22.7" W | NORTH HUDSON | PRECAST BOX CULVERT     |
| LOA 7 | EMERSON RD             | ROGERS BROOK       | 43°50'13.3" N/73°46'27.7" W | SCHROON LAKE | PRECAST BOX CULVERT     |



| SUBMISSION: PSE    |         |           | APRIL 2023   |
|--------------------|---------|-----------|--------------|
| FED. ROAD REG. NO. | STATE   | SHEET NO. | TOTAL SHEETS |
| 1                  | N.Y.    | 1         | 30           |
| CM#                | 120-098 |           |              |

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| ESSEX COUNTY CULVERTS PLAN INDEX |  |             |
|----------------------------------|--|-------------|
| SHEET NO.                        | DRAWING DESCRIPTION  | DRAWING NO. |
| 1                                | COVER SHEET  | COVER       |
| 2                                | INDEX  | INDEX       |
| 3                                | GENERAL NOTES  | GNN-1       |
| 4                                | PROJECT LOCATIONS MAPS   | PLM-1       |
| 5                                | WORK ZONE TRAFFIC CONTROL NOTES  | TCP-1       |
| 6                                | WORK ZONE TRAFFIC CONTROL PLAN   | TCP-2       |
| 7                                | EARTHWORK LAYOUT DETAILS   | ELD-1       |
| 8                                | EARTHWORK LAYOUT DETAILS   | ELD-2       |
| 9                                | MISCELLANEOUS DETAILS - STREAM DIVERSION SCHEMES   | MSD-01      |
| 10                               | MISCELLANEOUS DETAILS - CULVERT DETAILS  | MSD-02      |
| 11                               | MISCELLANEOUS DETAILS - BRIDGE RAIL DETAILS  | MSD-03      |
| 12                               | MISCELLANEOUS DETAILS - BRIDGE RAIL DETAILS  | MSD-04      |
| 13                               | MISCELLANEOUS DETAILS - BRIDGE RAIL DETAILS  | MSD-05      |
| LOA 2                            |  |             |
| 14                               | WZTC - DETOUR PLAN - LOA 2, TRACY ROAD AT FEEDER POND CULVERT REPLACEMENT, TOWN OF MORIAH, ESSEX COUNTY, NY                | TCP2-1      |
| 15                               | GENERAL PLAN AND PROFILE - LOA 2, TRACY ROAD AT FEEDER POND CULVERT REPLACEMENT, TOWN OF MORIAH, ESSEX COUNTY, NY          | ST2-1       |
| 16                               | LAYOUT PLAN - LOA 2, TRACY ROAD AT FEEDER POND CULVERT REPLACEMENT, TOWN OF MORIAH, ESSEX COUNTY, NY                       | ST2-2       |
| 17                               | TYPICAL SECTION - LOA 2, TRACY ROAD AT FEEDER POND CULVERT REPLACEMENT, TOWN OF MORIAH, ESSEX COUNTY, NY                   | ST2-3       |
| 18                               | MISCELLANEOUS TABLES - LOA 2, TRACY ROAD AT FEEDER POND CULVERT REPLACEMENT, TOWN OF MORIAH, ESSEX COUNTY, NY              | ST2-4       |
| 19                               | EROSION AND SEDIMENT CONTROL PLAN - LOA 2, TRACY ROAD AT FEEDER POND CULVERT REPLACEMENT, TOWN OF MORIAH, ESSEX COUNTY, NY | ST2-5       |
| LOA 3                            |  |             |
| 20                               | WZTC - DETOUR PLAN - LOA 3, JOHNSON POND ROAD CULVERT REPLACEMENT, TOWN OF NORTH HUDSON, ESSEX COUNTY, NY                  | TCP3-1      |
| 21                               | GENERAL PLAN AND PROFILE - LOA 3, JOHNSON POND ROAD CULVERT REPLACEMENT, TOWN OF NORTH HUDSON, ESSEX COUNTY, NY            | ST3-1       |
| 22                               | LAYOUT PLAN - LOA 3, JOHNSON POND ROAD CULVERT REPLACEMENT, TOWN OF NORTH HUDSON, ESSEX COUNTY, NY                         | ST3-2       |
| 23                               | TYPICAL SECTION - LOA 3, JOHNSON POND ROAD CULVERT REPLACEMENT, TOWN OF NORTH HUDSON, ESSEX COUNTY, NY                     | ST3-3       |
| 24                               | MISCELLANEOUS TABLES - LOA 3, JOHNSON POND ROAD CULVERT REPLACEMENT, TOWN OF NORTH HUDSON, ESSEX COUNTY, NY                | ST3-4       |
| 25                               | EROSION AND SEDIMENT CONTROL PLAN - LOA 3, JOHNSON POND ROAD CULVERT REPLACEMENT, TOWN OF NORTH HUDSON, ESSEX COUNTY, NY   | ST3-5       |
| LOA 7                            |  |             |
| 26                               | GENERAL PLAN AND PROFILE - LOA 7, EMERSON ROAD CULVERT REPLACEMENT, TOWN OF SCHROON, ESSEX COUNTY, NY                      | ST7-1       |
| 27                               | LAYOUT PLAN - LOA 7, EMERSON ROAD CULVERT REPLACEMENT, TOWN OF SCHROON, ESSEX COUNTY, NY                                   | ST7-2       |
| 28                               | TYPICAL SECTION - LOA 7, EMERSON ROAD CULVERT REPLACEMENT, TOWN OF SCHROON, ESSEX COUNTY, NY                               | ST7-3       |
| 29                               | MISCELLANEOUS TABLES - LOA 7, EMERSON ROAD CULVERT REPLACEMENT, TOWN OF SCHROON, ESSEX COUNTY, NY                          | ST7-4       |
| 30                               | EROSION AND SEDIMENT CONTROL PLAN - LOA 7, EMERSON ROAD CULVERT REPLACEMENT, TOWN OF SCHROON, ESSEX COUNTY, NY             | ST7-5       |

IND-01

ESSEX COUNTY  
CULVERT REPLACEMENTS  
VARIOUS LOCATIONS  
TOWN OF MORIAH, NY

INDEX



PREPARED FOR:  
ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETHTOWN, NY 12832

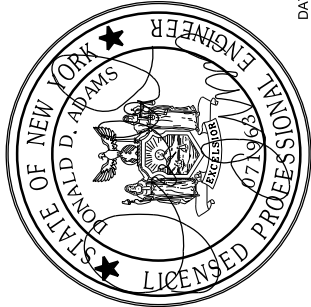
DATE: APRIL 2023 CM No.: 120-098 SCALE: AS NOTED DESIGNED: C.O.J.C. DRAWN BY: K.H.D. CHECKED: L.A.S.

NO.

REVISION

DATE

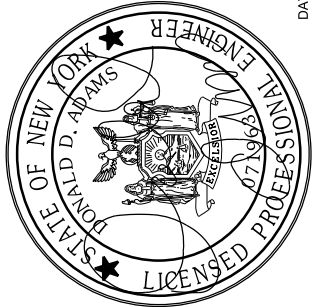
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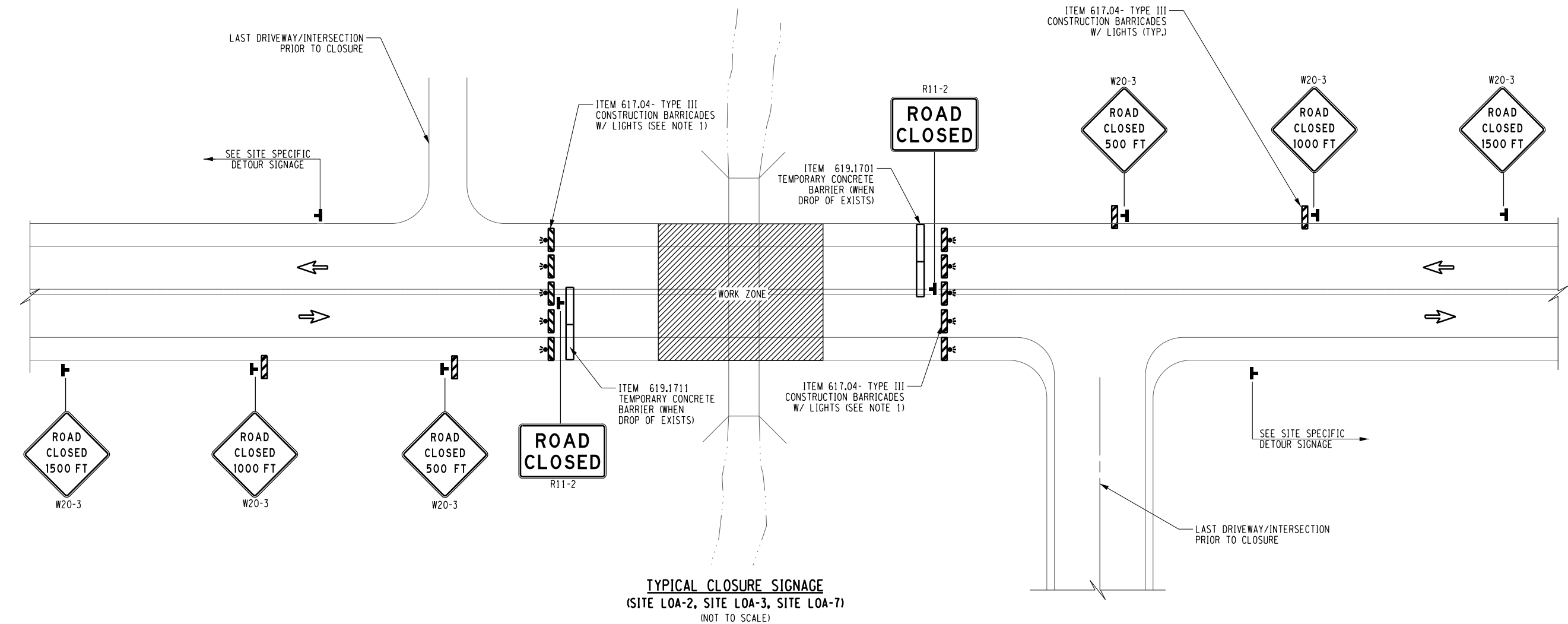
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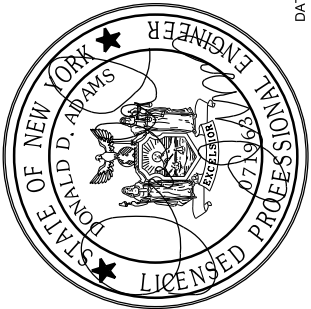
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL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



- NOTES:**
- ITEM 619.04 - TYPE III BARRICADES W/ LIGHTS SHALL BE PLACED 25.0 FT PAST THE LAST DRIVEWAY OR INTERSECTION PRIOR TO THE CLOSURE SITE, WHICHEVER IS APPROPRIATE.
  - COSTS OF ITEM 619.04 - TYPE III BARRICADES, ITEM 619.1711 - TEMPORARY CONCRETE BARRIER, AND ALL WZTC SIGNAGE POST SHALL BE INCLUDED IN ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL.
  - CONTRACTOR TO COORDINATE WITH EIC TWO WEEKS PRIOR TO PLACEMENT TO CONFIRM CLOSURE LOCATION.

| LEGEND |                      |
|--------|----------------------|
|        | DETOUR SIGN LOCATION |
|        | TYPE III BARRICADE   |
|        | TYPE III BARRICADE   |
|        | DIRECTION OF TRAFFIC |
|        | WORK ZONE            |



DATE:  
4/14/2023



PREPARED FOR:  
ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETHTOWN, NY 12832

ESSEX COUNTY  
CULVERT REPLACEMENTS  
VARIOUS LOCATIONS  
TOWN OF MORIAH, NY

WORK ZONE TRAFFIC CONTROL

**TCP-2**

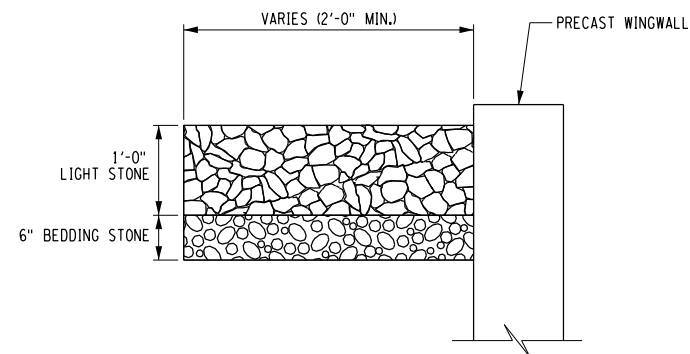
SHEET NUMBER 6 of 30

| NO. | REVISION | DATE | BY |
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DESIGNED: C.O.J.O. DRAWN BY: K.H.D. CHECKED: L.A.S.

DATE: APRIL 2023 CM No.: 120-098 SCALE: AS NOTED

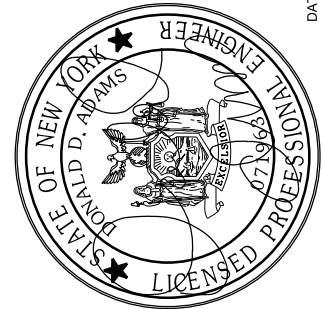





SECTION B-B

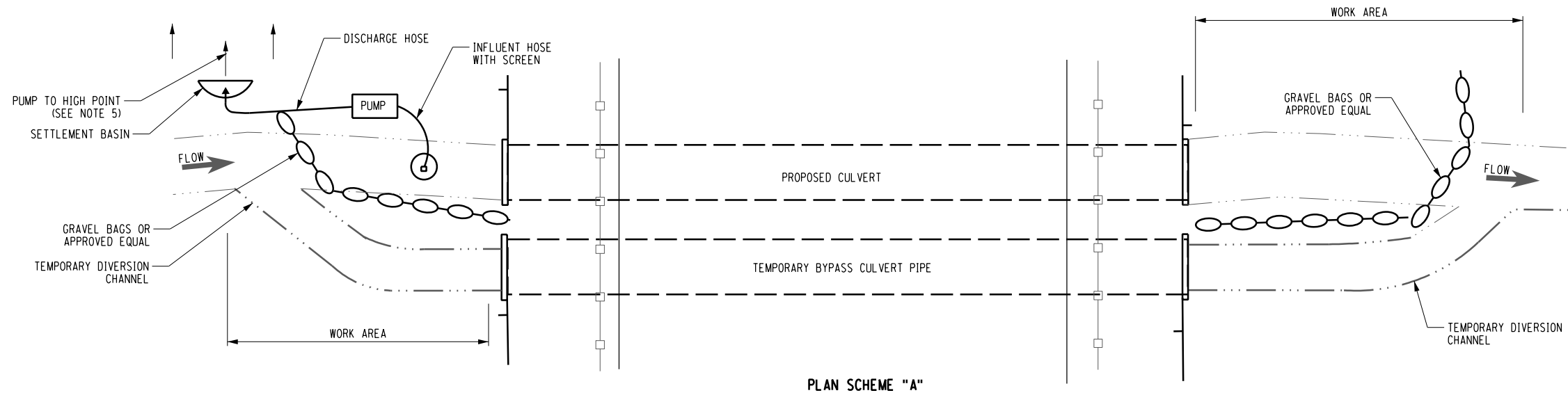
TYPICAL LIGHT STONE DETAIL

(NOT TO SCALE)

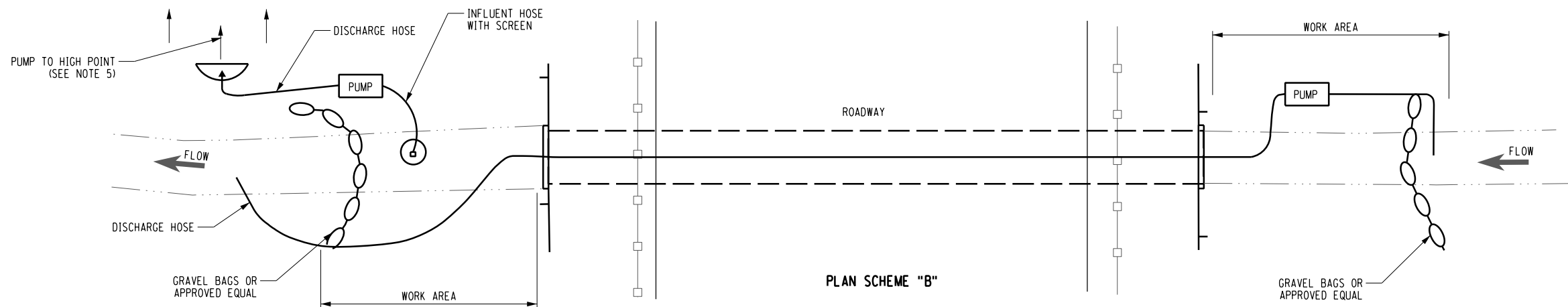


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|---|---|--|----------|-----------|----------|
| <p>ESSEX COUNTY<br/>CULVERT REPLACEMENTS<br/>VARIOUS LOCATIONS<br/>TOWN OF MORIAH, NY</p> |  | NO.  | REVISION | DATE      | BY       |
|   |   |  |          |           |          |
|   |   |  |          |           |          |
|   |   |  |          |           |          |
|   |   |  |          |           |          |
| <p><b>EARTHWORK LAYOUT DETAILS</b></p>  |   | <p>PREPARED FOR:</p>   |          |           |          |
|   |   | <p>ESSEX COUNTY<br/>DEPARTMENT OF PUBLIC WORKS<br/>8053 US ROUTE 9<br/>ELIZABETHTOWN, NY 12932</p> |          |           |          |
| DATE:   | APRIL 2023  | CM No.:  | 120-098  | SCALE:    | AS NOTED |
|   |   | DESIGNED:  | C.O.JJO. | DRAWN BY: | K.H.D.   |
|   |   |  |          | CHECKED:  | L.A.S.   |





### PLAN SCHEME "A"

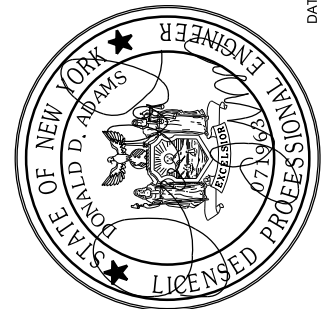


PLAN SCHEME "B"


TEMPORARY SEDIMENT CONTROL CULVERT SCHEMES  
(NOT TO SCALE)

TEMPORARY SEDIMENT CONTROL NOTES:

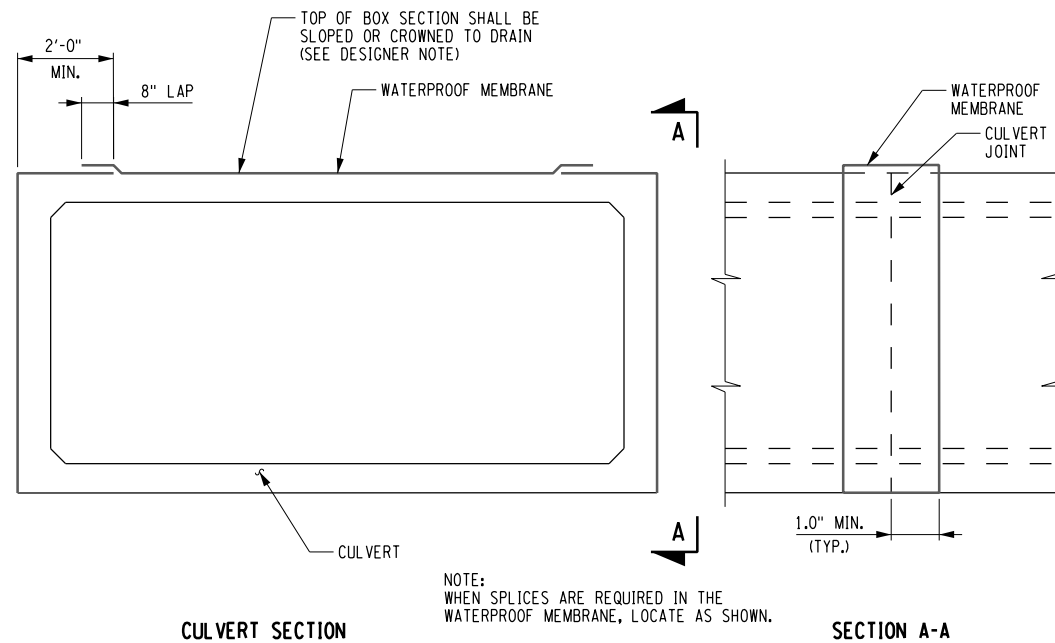
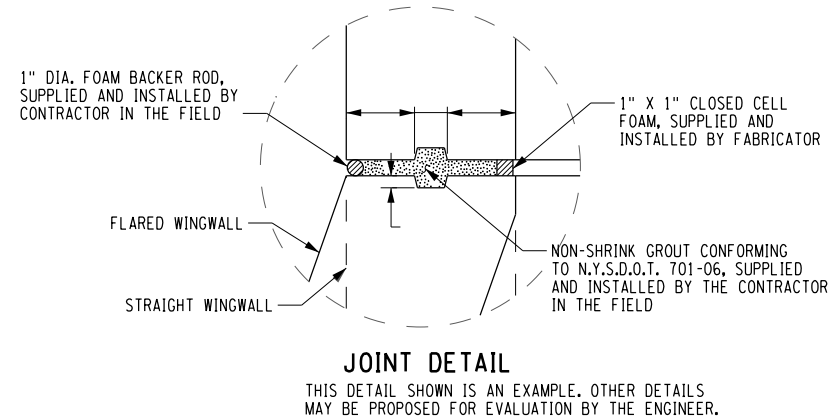
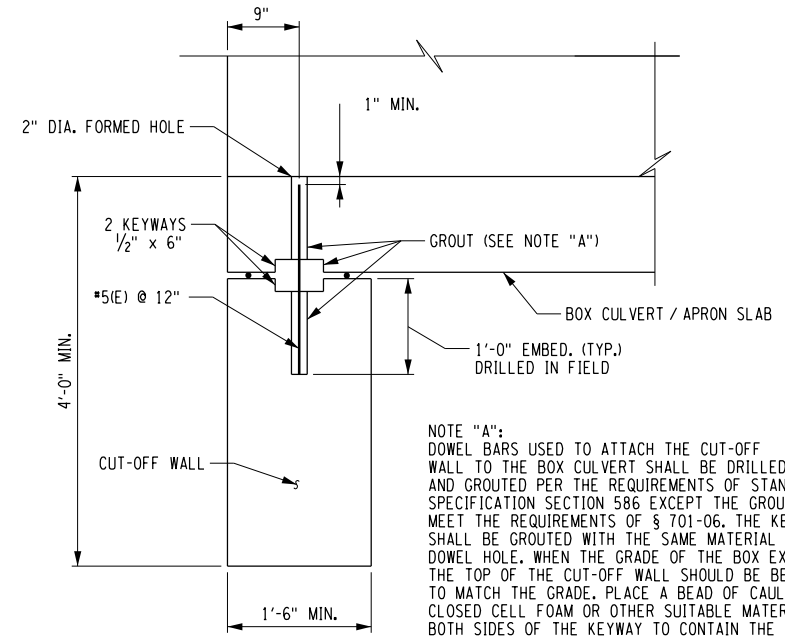
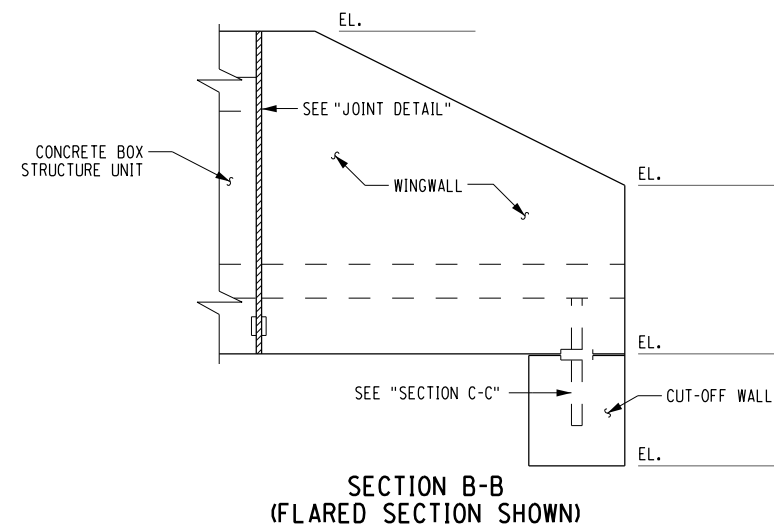
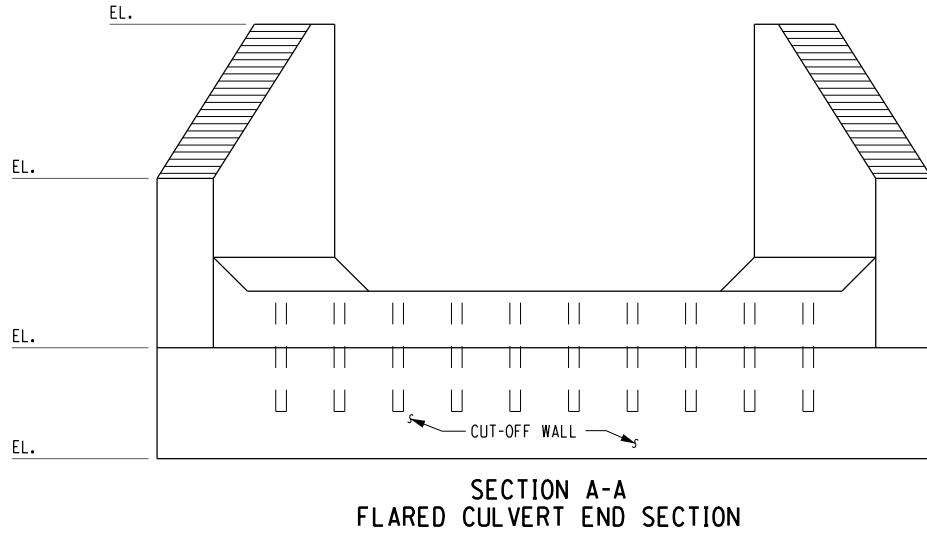
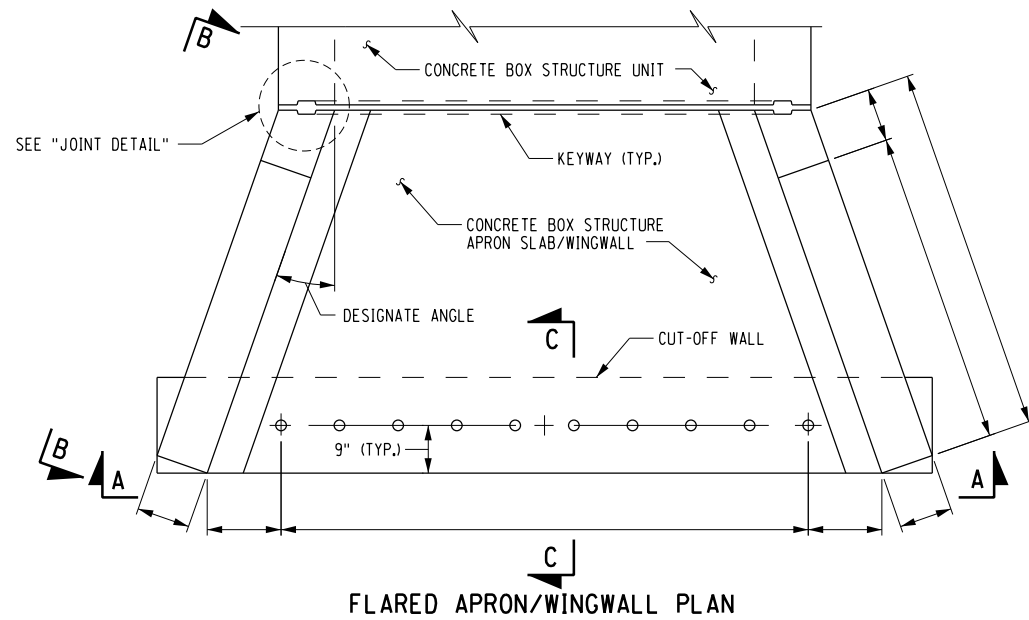
1. PRIOR TO BEGINNING CONSTRUCTION/INSTALLATION OF ANY STREAM DIVERSION, THE CONTRACTOR SHALL SUBMIT THE METHODS TO BE EMPLOYED TO THE ENGINEER FOR REVIEW AND APPROVAL.
2. THE CONTRACTOR MAY PREPARE AN ALTERNATIVE WATER DIVERSION PLAN. LOCATIONS AND DESIGNS NOT SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER.
3. NO WORK SHALL BE CONDUCTED IN THE STREAM BEYOND THE LIMITS OUTLINED ON THE PLANS.
4. ALL STREAM DIVERSION COMPONENTS SHALL BE INSTALLED PRIOR TO WORK COMMENCING ON THE CULVERT AND BE LEFT IN PLACE UNTIL ALL WORK HAS BEEN COMPLETED.
5. ALL DEWATERING OPERATIONS INVOLVING TURBID WATER SHALL BE ACCOMPLISHED BY PUMPING TO A SUITABLE VEGETATED AREA (NOT INCLUDING WETLANDS), OR TO A SETTLEMENT BASIN OR MANUFACTURED SEDIMENT CONTROL SYSTEM. WHEN WATER BEING DISCHARGED IS AS FREE AND CLEAR OF SEDIMENT AS THE ADJACENT STREAM OR WATER BODY, THE WATER CAN BE PUMPED DIRECTLY INTO THE STREAM OR WATER BODY. THE ENGINEER SHALL BE THE SOLE JUDGE AS TO THE LOCATION OF THE DISCHARGE POINT AND WHETHER A SEDIMENT TRAP IS NECESSARY. ALL PUMPING OPERATIONS SHALL NOT BEGIN OR SHALL BE HALTED UNTIL SETTLEMENT BASIN IS OPERATIONAL.
6. ADEQUATE MEASURES MUST BE EMPLOYED TO ENSURE AGAINST EROSION AT THE PUMP DISCHARGE OUTLET. THE COST INCLUDED SHALL BE IN THE UNIT BID PRICE FOR THE STREAM DIVERSION ITEM.
7. AT THE END OF THE WORK DAY OR BEFORE HEAVY ANTICIPATED FLOWS, THE CONTRACTOR SHALL ESTABLISH AN UNOBSTRUCTED CHANNEL AREA SUFFICIENT TO ACCOMMODATE THE FLOW.
8. THE COST OF PUMPING, SUMP PIT, HOSES, CONSTRUCTION OF TEMPORARY DIVERSION CHANNELS AND TEMPORARY BYPASS PIPES (IF REQUIRED) SHALL BE INCLUDED IN THE UNIT BID PRICE FOR STREAM DIVERSION, ITEM 553030001.
9. THE PLAN SCHEMES SHOWN ARE FOR GUIDANCE ONLY. THE DEWATERING METHOD USED SHALL BE BASED ON FIELD CONDITIONS OF THE SPECIFIC PROJECT AT THE TIME OF CONSTRUCTION. THE METHOD SHOULD BE ADJUSTED ACCORDINGLY AND APPROVED BY THE ENGINEER PRIOR TO START OF ANY WORK.
10. TEMPORARY DIVERSION CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY BEFORE DIVERTING WATER FROM THE EXISTING CHANNEL. WHERE THIS IS NOT FEASIBLE, COFFERDAMS CAN BE USED UNTIL WORK IS COMPLETE. ALL TEMPORARY DIVERSION CHANNELS SHALL BE CONSTRUCTED OF NON-ERODIBLE MATERIAL AND THE BOTTOM WIDTH SHALL BE EQUAL TO OR GREATER THAN THE NATURAL CHANNEL BOTTOM WIDTH. ONCE THE PROPOSED WORK HAS BEEN SATISFACTORILY COMPLETED, AS APPROVED BY THE ENGINEER, THE TEMPORARY DIVERSION CHANNEL SHALL BE REMOVED IN ITS ENTIRETY AND THE AREA RESTORED TO PROPOSED GRADES AND STABILIZED.



DATE: 4/11/2023

|   |                 |  |                      |   |                 |    |
|---|-----------------|--|----------------------|---|-----------------|----|
| <b>MSD-01</b>   |                 | SHEET NUMBER   |                      | 9   | OF              | 30 |
| ESSEX COUNTY<br>CULVERT REPLACEMENTS<br>VARIOUS LOCATIONS<br>TOWN OF MORIAH, NY |                 |  <b>Creighton Manning</b> |                      | NO. _____<br>REVISION _____<br>DATE _____<br>BY _____ |                 |    |
| MISCELLANEOUS DETAILS   |                 | PREPARED FOR:<br>ESSEX COUNTY<br>DEPARTMENT OF PUBLIC WORKS<br>8053 US ROUTE 9<br>ELIZABETHTOWN, NY 12932      |                      |   |                 |    |
| DATE: APRIL 2023  | CW No.: 120-098 | SCALE: AS NOTED  | DESIGNED: C.O.J.J.O. | DRAWN BY: K.H.D.                                      | CHECKED: L.A.S. |    |

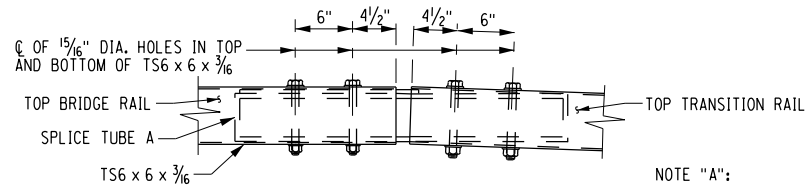
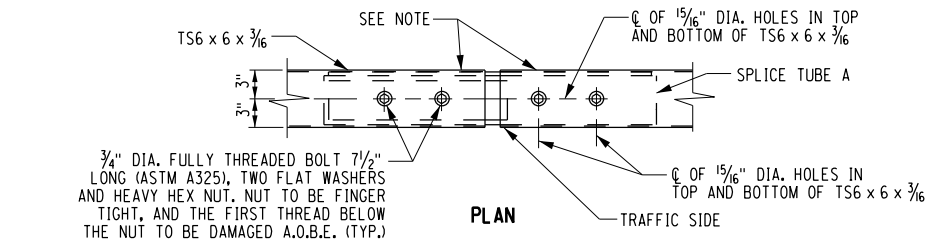
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# MSD-02

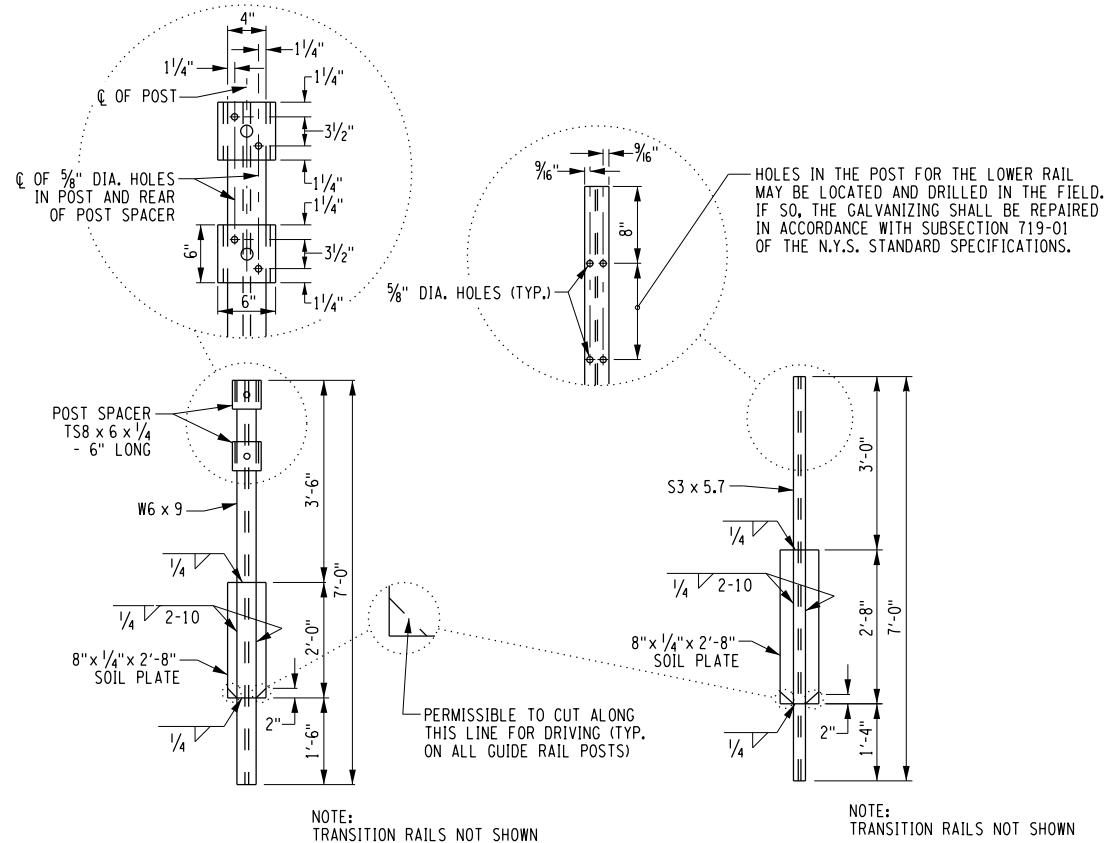
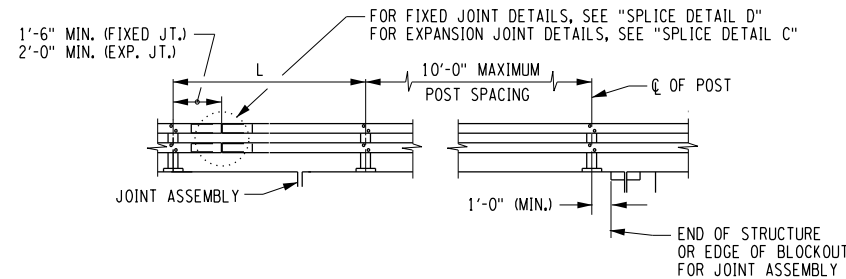
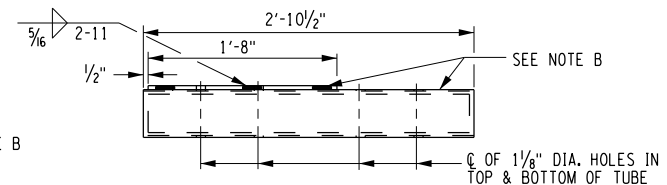
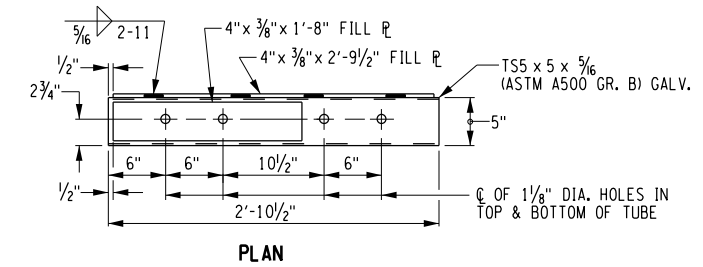
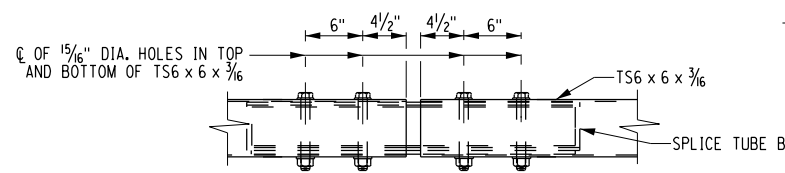
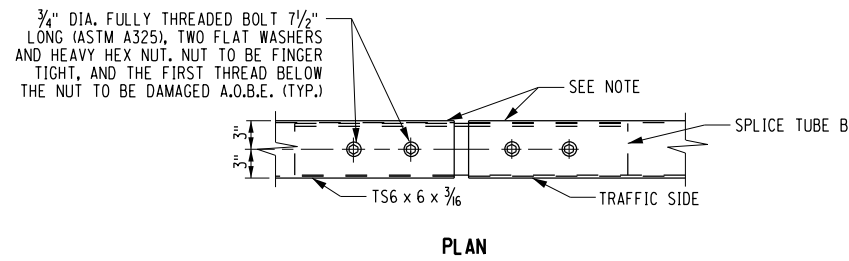
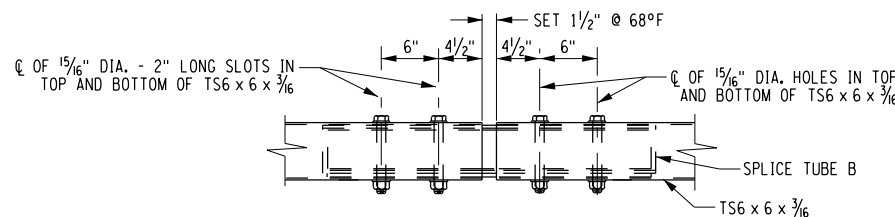
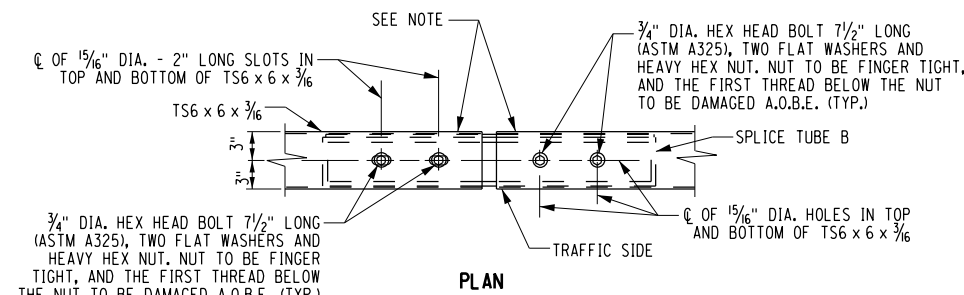
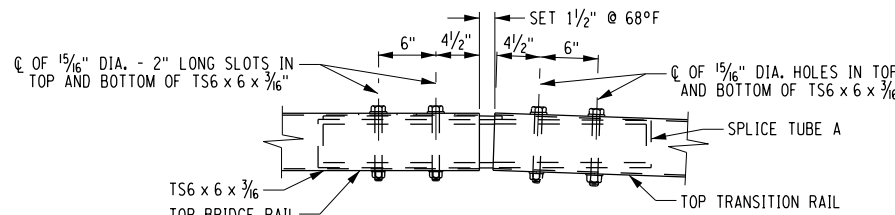
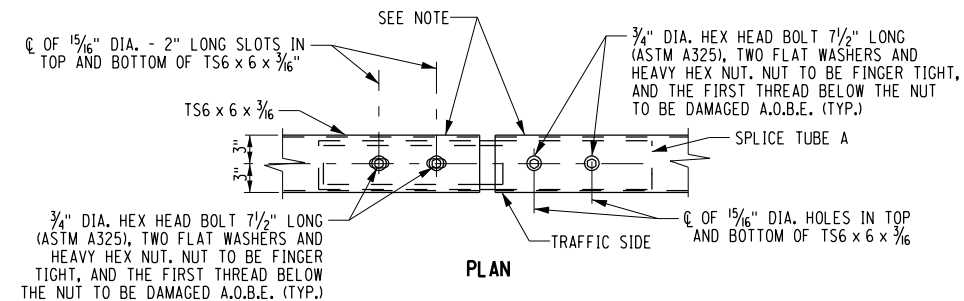


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NOTE "A":  
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT  
PERMITTED ON THE INSIDE WALLS OF THE SPLICE AREA.

NOTE "B":  
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT  
PERMITTED ON THE OUTSIDE WALLS OF THE SPLICE TUBE AND  
THE OUTSIDE SURFACES OF THE FILL PLATES.



NOTES:

FOR ADDITIONAL NOTES, SEE DWG. MSD-05.


FOR LOCATION OF "SPlice A" THRU "SPlice D",  
SEE DWG. MSD-05.

FOR "SPlice E" AND "SPlice TUBE B", SEE DWG. MSD-05.

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

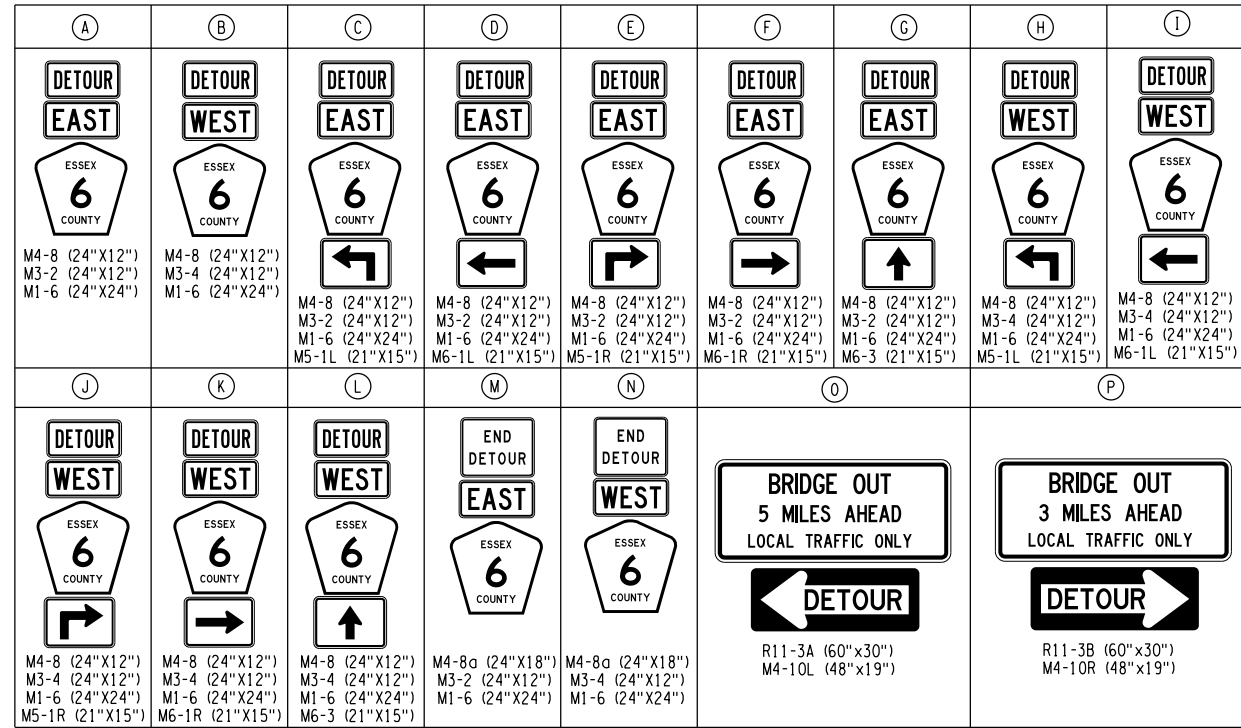


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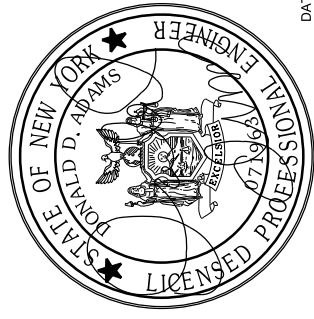
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| DATE:  | APRIL 2023 | CM No.: | 120-098 | SCALE: | AS NOTED | DESIGNED: | C.O.JJO. | DRAWN BY: | K.H.D. | CHECKED: | L.A.S. |
| <div> <div>  <div> <div>ESSEX COUNTY</div> <div>CULVERT REPLACEMENTS</div> <div>VARIOUS LOCATIONS</div> <div>TOWN OF MORIAH, NY</div> </div> </div> <div> <div>PREPARED FOR:</div> <div> <div>ESSEX COUNTY</div> <div>DEPARTMENT OF PUBLIC WORKS</div> <div>8053 US ROUTE 9</div> <div>ELIZABETHTOWN, NY 12932</div> </div> </div> </div> |            |         |         |        |          |           |          |           |        |          |        |
| MISCELLANEOUS DETAILS  |            |         |         |        |          |           |          |           |        |          |        |
| NO.  |            |         |         |        |          |           |          |           |        |          |        |
| REVISION   |            |         |         |        |          |           |          |           |        |          |        |
| DATE   |            |         |         |        |          |           |          |           |        |          |        |
| BY   |            |         |         |        |          |           |          |           |        |          |        |




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



1. CONTRACTOR SHALL PLACE CONFIRMATION SIGNAGE UTILIZING M4-8, M1-5, AND M3-2 OR M3-4 ALONG THE PROPOSED DETOUR AT A MAXIMUM DISTANCE OF EVERY 1/2 MILE.

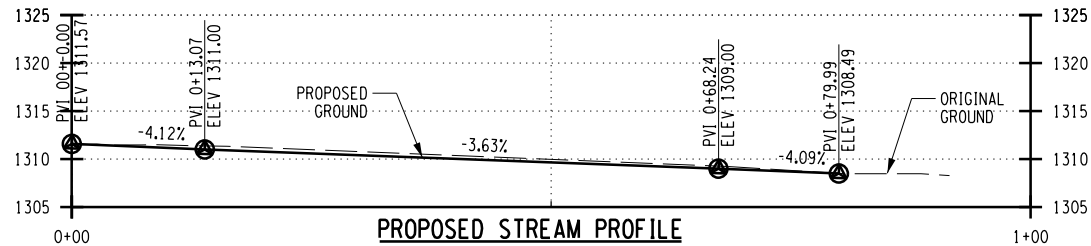
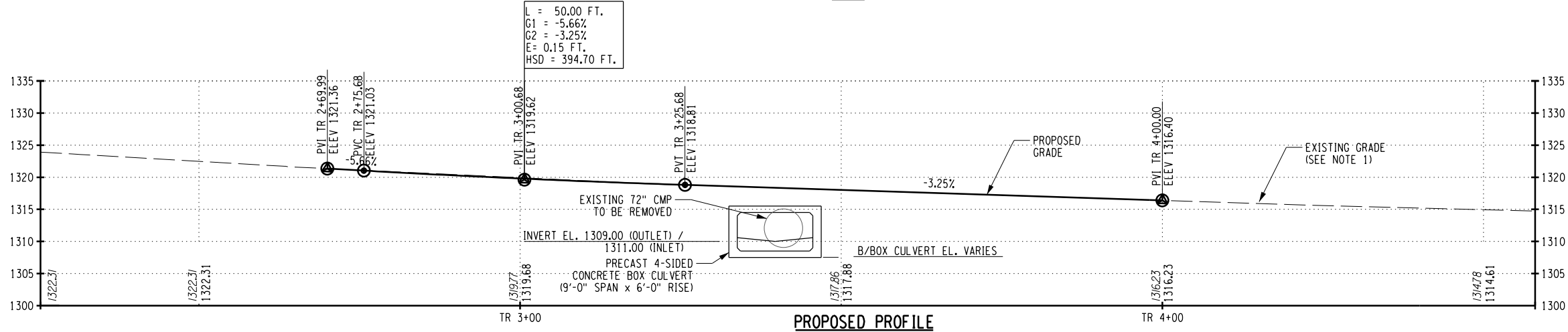
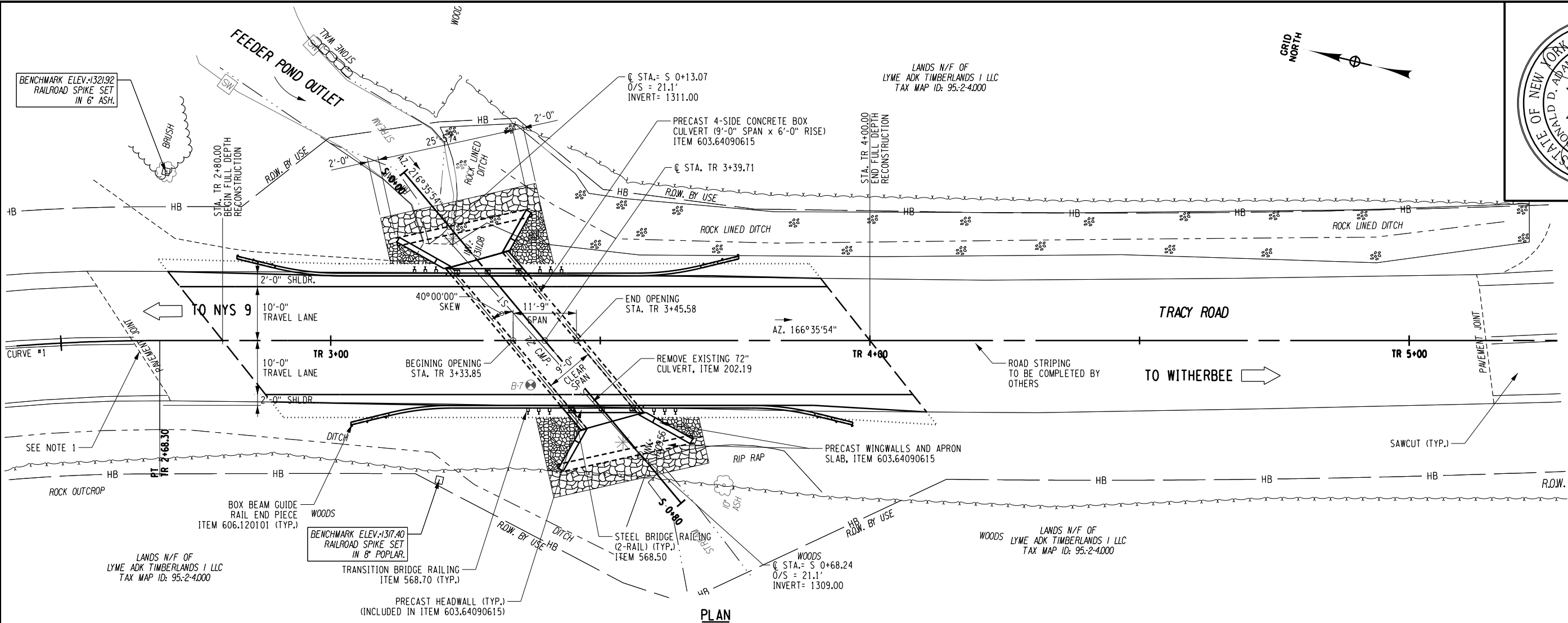


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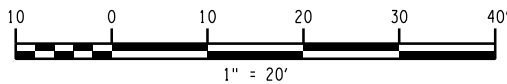
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| SHEET NUMBER   |            | 14   | of      | 30     |          |           |        |           |        |          |      |
| <div>TCP2-1</div>  |            |  |         |        |          |           |        |           |        |          |      |
| TRACY ROAD AT FEEDER POND<br>CULVERT REPLACEMENT<br>TOWN OF MORIAH<br>ESSEX COUNTY, NY |            | <div><div>Creighton Manning</div><div>PREPARED FOR:<br/>ESSEX COUNTY<br/>DEPARTMENT OF PUBLIC WORKS<br/>8053 US ROUTE 9<br/>ELIZABETHTOWN, NY 12932</div></div> |         |        | NO.      | REVISION  | DATE   | BY        |        |          |      |
| WORK ZONE TRAFFIC CONTROL<br>DETOUR PLAN - LOA 2                                       |            |  |         |        |          |           |        |           |        |          |      |
|  |            |  |         |        |          |           |        |           |        |          |      |
|  |            |  |         |        |          |           |        |           |        |          |      |
|  |            |  |         |        |          |           |        |           |        |          |      |
|  |            |  |         |        |          |           |        |           |        |          |      |
| DATE:  | APRIL 2023 | CW No.:  | 120-098 | SCALE: | AS NOTED | DESIGNED: | L.A.S. | DRAWN BY: | K.H.D. | CHECKED: | A.T. |

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



CURVE 1  
PC = STA. TR 1+27.44  
PT = STA. TR 2+68.30  
 $\Delta = 23^\circ 03' 32.85''$   
R = 350.00  
Dc =  $16^\circ 22' 12.80''$   
L = 140.86  
T = 71.40

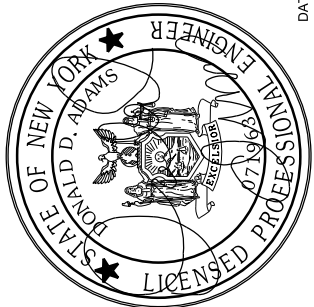


#### LEGEND:

- STONE FILL (MEDIUM) ITEM 620.04
- STONE FILL (LIGHT) ITEM 620.03
- APPROXIMATE LIMITS OF CUT
- APPROXIMATE LIMITS OF FILL
- WETLAND
- BORING LOCATION

#### NOTES:

- POST PROJECT SURVEY THE COUNTY HAS PLACED AN APPROXIMATE 2" ASPHALT OVERLAY. THE PROPOSED PROFILE APPROXIMATES THE 2" INCREASE IN PROFILE. CONTRACTOR SHALL CONFIRM THE TIE-IN ELEVATIONS UNDER THE SURVEY ITEM.
- BEDROCK OUTCROPPINGS MAYBE PRESENT W/IN THE VICINITY OF THE CULVERT. ALTHOUGH NOT ENCOUNTERED DURING GEOTECHNICAL BORINGS THE CONTRACTOR SHALL INCLUDE COST FOR ROCK REMOVAL W/IN THE UNIT PRICE FOR ITEMS 206.01 AND 206.0201



DATE:  
4/4/2023



TRACY ROAD AT FEEDER POND  
CULVERT REPLACEMENT  
TOWN OF MORIAH  
ESSEX COUNTY, NY

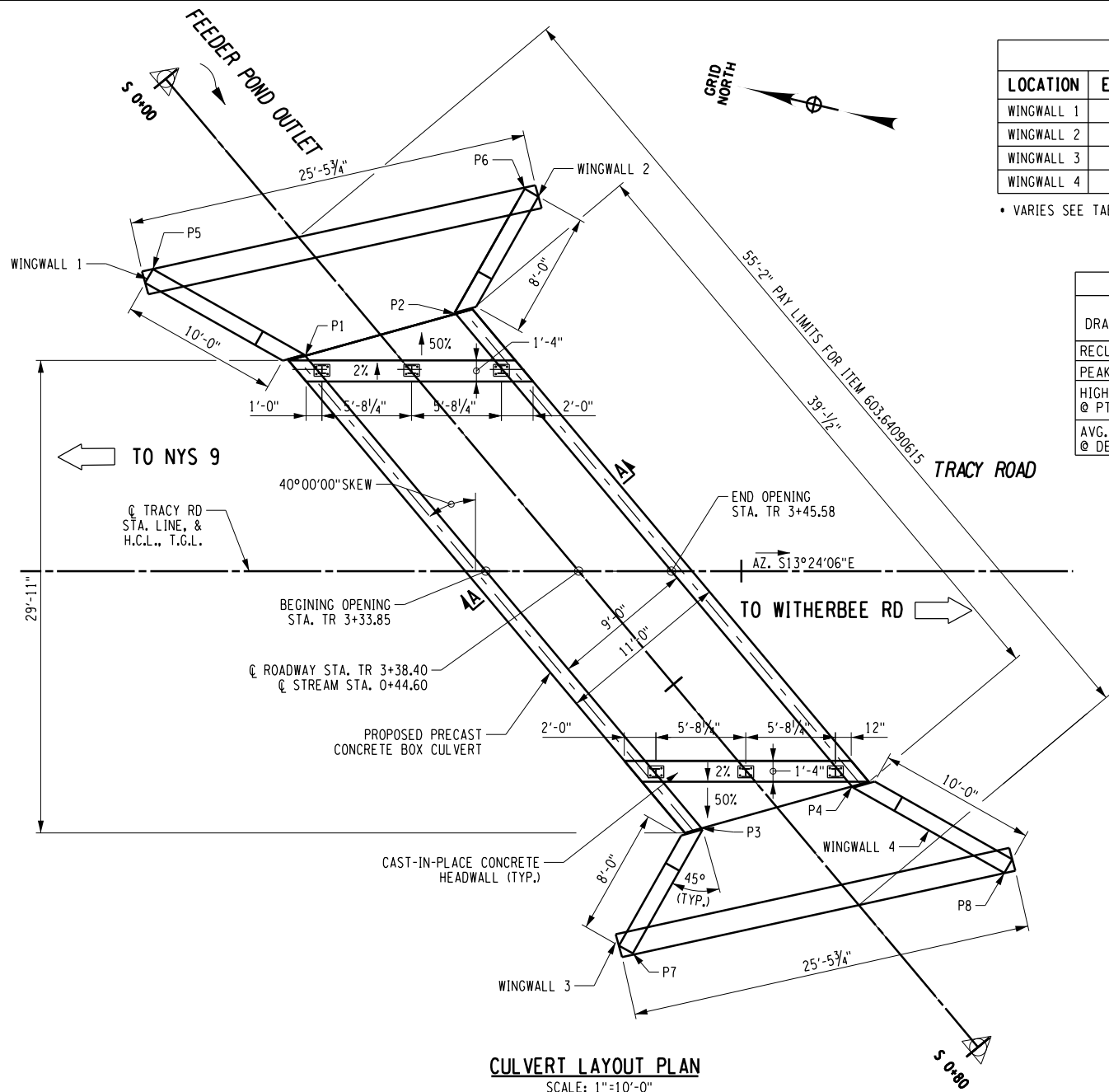
GENERAL PLAN AND PROFILE

ST2-1

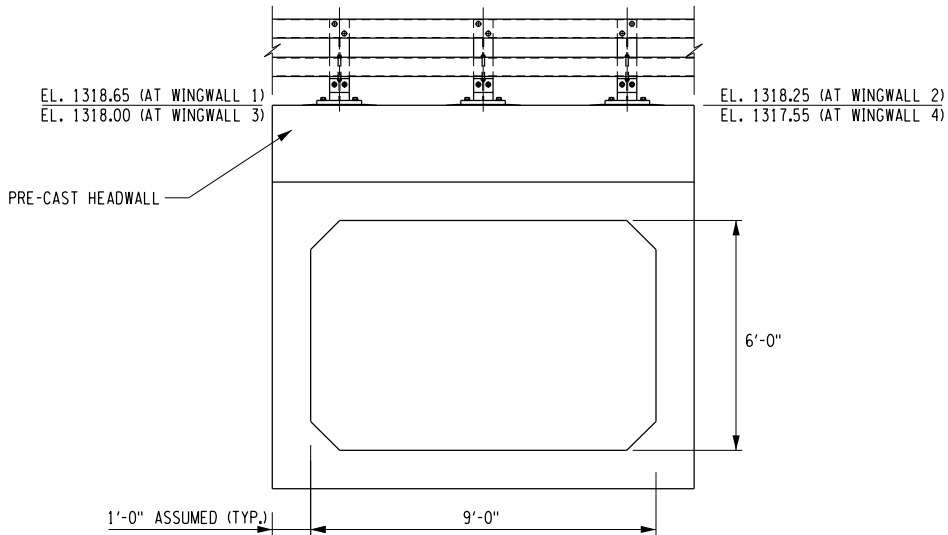
SHEET NUMBER 15 of 30

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CULVERT LAYOUT PLAN  
SCALE: 1"=10'-0"



CULVERT SECTION A-A  
SCALE: 1"=5'-0"

•• ELEVATIONS ARE AT OUTSIDE FACE OF HEADWALL, BOTH SIDES OF CULVERT (TYP.)

| WINGWALL DATA TABLE |             |             |             |               |
|---------------------|-------------|-------------|-------------|---------------|
| LOCATION            | ELEVATION A | ELEVATION B | ELEVATION C | DIMENSION "L" |
| WINGWALL 1          | 1318.65     | 1315.70     | •           | 11'-0"        |
| WINGWALL 2          | 1316.85     | 1315.70     | •           | 9'-0"         |
| WINGWALL 3          | 1316.40     | 1313.70     | •           | 9'-0"         |
| WINGWALL 4          | 1317.50     | 1313.70     | •           | 11'-0"        |

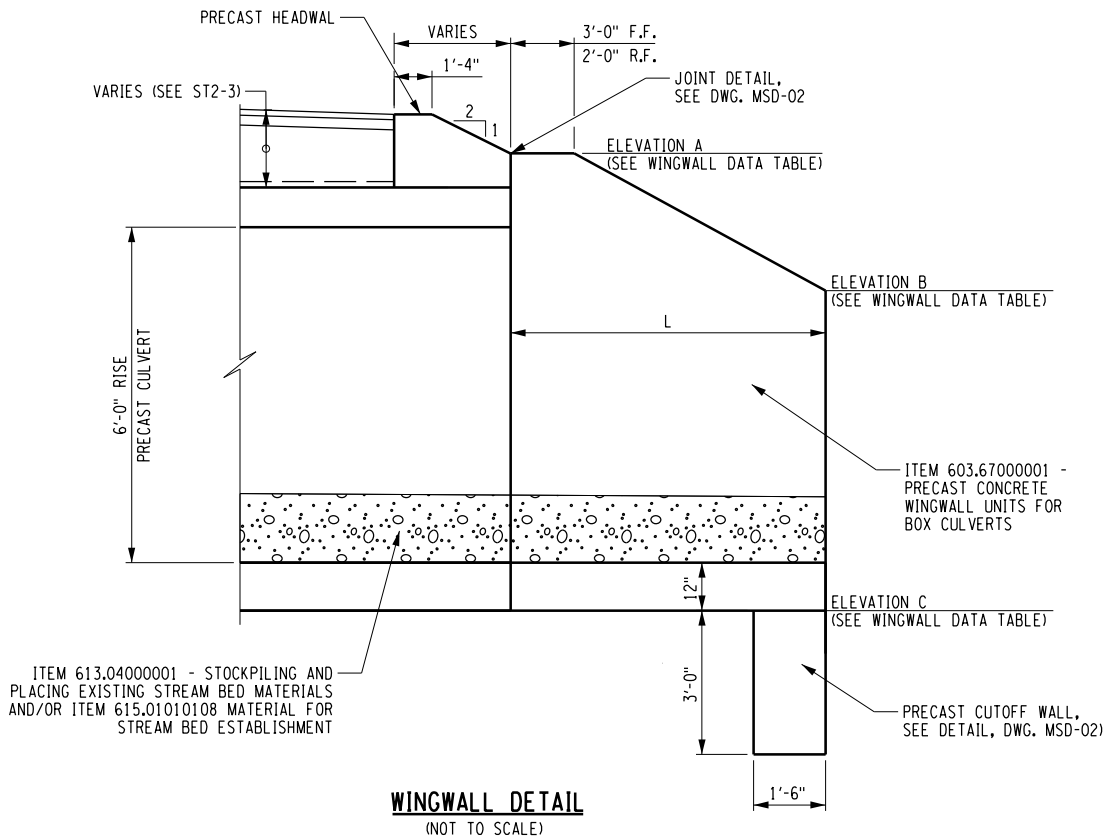
• VARIES SEE TABLE OF COORDINATES THIS SHEET

| HYDRAULIC DATA                                |  |   |
|---|--|---|
| DRAINAGE AREA = 1.96 mi <sup>2</sup>          |  | DESIGN FLOOD                                |
| RECURRENCE INTERVAL                           |  | 50  |
| PEAK DISCHARGE                                |  | 173   |
| HIGH WATER ELEVATION @ PT. OF MAX BACKWATER   |  | EXIST 1312.17<br>PROP. 1311.86              |
| AVG. VELOCITY THRU STRUCTURE @ DESIGN FLOOD = |  | 4.0   |
|   |  | BASE FLOOD 198<br>1312.33<br>1311.98<br>4.6 |

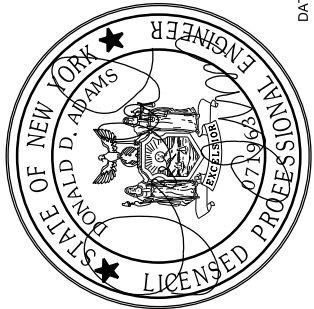
| CULVERT DESIGN DATA TABLE   |       |
|---|-------|
| CLEAR SPAN, FT  | 9'-0" |
| CLEAR RISE, FT  | 6'-0" |
| • MIN. FILL HEIGHT, FT  | 2'    |
| • MAX. FILL HEIGHT, FT  | 3'    |
| (@ SKEW) SKEW ANGLE TO C OF ROADWAY, DEG.   | 40°   |
| LIVE LOAD   | HL-93 |
| • BASED ON ASSUMED TOP SLAB THICKNESS OF 12". FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS. |       |
| • 1.2 MIN. LRFR RATING INVENTORY  |       |

| TABLE OF COORDINATES |             |              |           |
|----------------------|-------------|--------------|-----------|
| DESCRIPTION          | NORTHING    | EASTING      | ELEVATION |
| P1: LT BEGIN         | 726054.4289 | 1913003.6827 | 1308.30   |
| P2: LT END           | 726059.2132 | 1912995.0297 | 1308.15   |
| P3: RT BEGIN         | 726031.1517 | 1912972.3381 | 1306.85   |
| P4: RT END           | 726035.9412 | 1912963.6921 | 1306.70   |
| P5: LT BEGIN         | 726057.5238 | 1913014.3286 | 1308.65   |
| P6: LT END           | 726067.9200 | 1912992.6197 | 1308.25   |
| P7: RT BEGIN         | 726022.4477 | 1912974.7526 | 1306.75   |
| P8: RT END           | 726032.8452 | 1912953.0448 | 1306.35   |

•• ELEVATIONS ARE AT BOTTOM OF SLAB (TYP.)



WINGWALL DETAIL  
(NOT TO SCALE)



DATE:  
4/4/2023



PREPARED FOR:  
ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETH TOWN, NY 12832

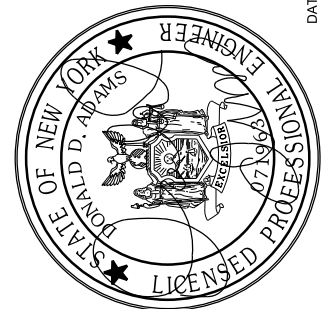
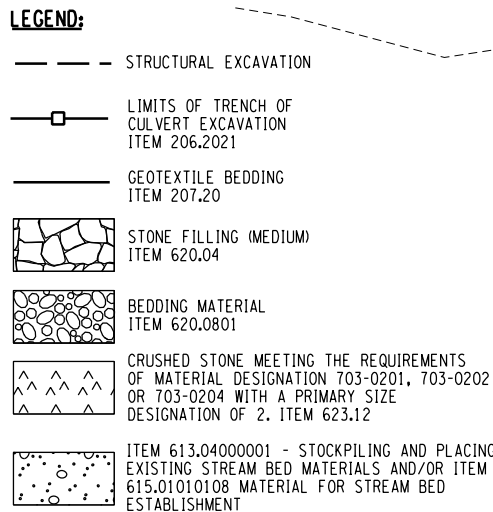
TRACY ROAD AT FEEDER POND  
CULVERT REPLACEMENT  
TOWN OF MORIAH  
ESSEX COUNTY, NY

LAYOUT PLAN - LAO 2

ST2-2

SHEET NUMBER 16 of 30



[illegible]

|           |        |           |        |          |      |
|-----------|--------|-----------|--------|----------|------|
| DESIGNED: | L.A.S. | DRAWN BY: | K.H.D. | CHECKED: | A.T. |
|-----------|--------|-----------|--------|----------|------|

TYPICAL SECTION - LOA 2

|       |            |                 |                 |
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| DATE: | APRIL 2023 | CM No.: 120-098 | SCALE: AS NOTED |
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# ST2-3

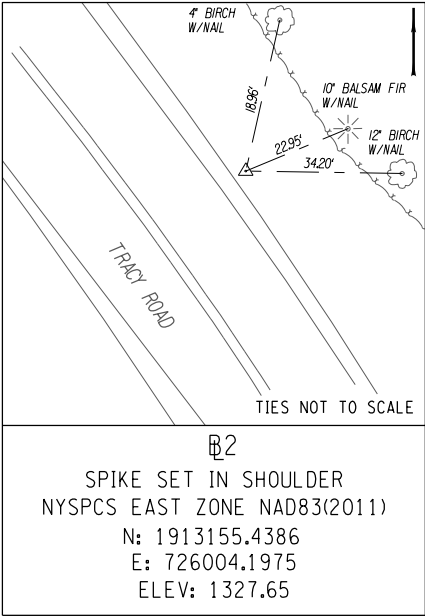
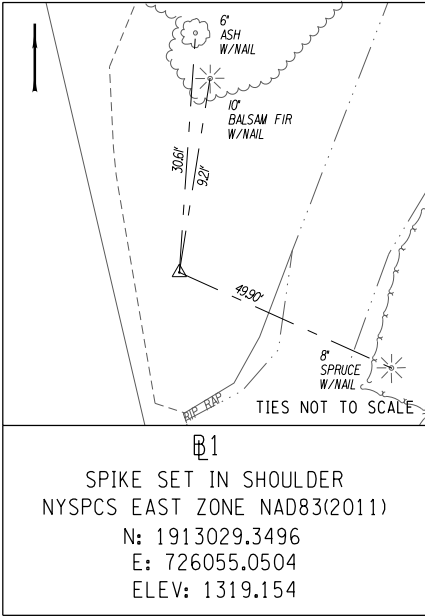
SHEET NUMBER 17 of 30

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| TABLE OF HORIZONTAL ALIGNMENT |                            |  |                              |                            |
|-------------------------------|----------------------------|--|------------------------------|----------------------------|
| POINT                         | STATION                    | CURVE DATA   | COORDINATE                   |                            |
|                               |                            |  | NORTH                        | EAST                       |
| TRACY ROAD                    |                            |  |                              |                            |
| POB                           | TR. 1+00.00                | AZ S 36°27'38.7" E<br>LENGTH =27.4447 FT<br><br>RADIUS = 350.0000 FT<br>DELTA =23°03'32.8" RT<br>LENGTH = 140.8602 FT<br>TANGENT =71.3964 FT | 1913202.0937                 | 725953.3483                |
| PC<br>PI                      | TR. 1+27.44<br>TR. 1+98.84 |  | 1913180.0210<br>1913122.5994 | 725969.6578<br>726012.0867 |
| PT                            | TR. 2+68.30                |  | 1913053.1472                 | 726028.6346                |
| POE                           | TR. 5+40.32                | AZ S 13°24'05.8" E<br>LENGTH =272.0186 FT  | 1912788.5359                 | 726091.6818                |
| FEEDER POND OUTLET            |                            |  |                              |                            |
| POB                           | -0+00.01                   | AZ S 36°35'54.2" W<br>LENGTH =89.1949 FT   | 1913020.7609                 | 726071.4710                |
| POE                           | 0+89.19                    |  | 1912949.1522                 | 726018.2928                |

| ESTIMATE OF QUANTITIES |  |      |                    |                |
|------------------------|--|------|--------------------|----------------|
| ITEM NUMBER            | DESCRIPTION  | UNIT | ESTIMATED QUANTITY | FINAL QUANTITY |
| 201.06                 | CLEARING AND GRUBBING  | LS   | 1                  |                |
| 203.02                 | UNCLASSIFIED EXCAVATION AND DISPOSAL   | CY   | 86                 |                |
| 203.03                 | EMBANKMENT IN PLACE  | CY   | 283                |                |
| 203.21                 | SELECT STRUCTURE FILL  | CY   | 151                |                |
| 203.24010017           | SHOULDER BACKUP MATERIAL   | TON  | 6                  |                |
| 206.01                 | STRUCTURE EXCAVATION   | CY   | 768                |                |
| 206.0201               | TRENCH AND CULVERT EXCAVATION  | CY   | 80                 |                |
| 207.20                 | GEOTEXTILE BEDDING   | SY   | 125                |                |
| 207.26                 | PREFABRICATED COMPOSITE STRUCTURAL DRAIN   | SY   | 103                |                |
| 209.13                 | SILT FENCE-TEMPORARY   | LF   | 200                |                |
| 304.12                 | SUBBASE COURSE, TYPE 2   | CY   | 134                |                |
| 404.128301             | 12.5 F3 TOP COURSE WMA, 80 SERIES COMPACTION   | TON  | 42                 |                |
| 404.198901             | 19 F9 BINDER COURSE WMA, 80 SERIES COMPACTION  | TON  | 66                 |                |
| 407.0102               | DILUTED TACK COAT  | GAL  | 54                 |                |
| 553.030001             | TEMPORARY WATERWAY DIVERSION STRUCTURE   | EACH | 1                  |                |
| 568.50                 | STEEL BRIDGE RAILING (TWO RAIL)  | LF   | 31                 |                |
| 568.70                 | TRANSITION BRIDGE RAILING  | LF   | 128                |                |
| 595.50000018           | SHEET-APPLIED WATERPROOFING MEMBRANE   | SF   | 514                |                |
| 603.64090615           | PRECAST CONCRETE BOX CULVERT (FILL HEIGHT 24 IN OR GREATER) 9 FOOT SPAN, 6 FOOT RISE | LF   | 56                 |                |
| 606.120101             | BOX BEAM END PIECE   | EACH | 4                  |                |
| 610.16010020           | TURF ESTABLISHMENT - PERFORMANCE   | SY   | 136                |                |
| 613.04000001           | STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS                                | CY   | 29                 |                |
| 615.01010108           | MATERIAL FOR STREAM BED ESTABLISHMENT  | CY   | 8                  |                |
| 619.01                 | BASIC WORK ZONE TRAFFIC CONTROL  | LS   | 1                  |                |
| 620.03                 | STONE FILLING (LIGHT)  | CY   | 6                  |                |
| 620.04                 | STONE FILLING (MEDIUM)   | CY   | 63                 |                |
| 620.0801               | BEDDING MATERIAL, TYPE 1   | CY   | 10                 |                |
| 623.12                 | CRUSHED STONE (IN-PLACE MEASURE)   | CY   | 45                 |                |
| 625.01                 | SURVEY OPERATIONS  | LS   | 1                  |                |
| 627.50140008           | CUTTING PAVEMENT   | LF   | 64                 |                |
| 646.22                 | DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS               | EACH | 6                  |                |
| 646.32                 | STEEL POST, 2.0 LB/FT  | EACH | 4                  |                |
| 697.03                 | FIELD CHANGE PAYMENT   | DC   | 20400              |                |
| 699.040001             | MOBILIZATION   | LS   | 1                  |                |



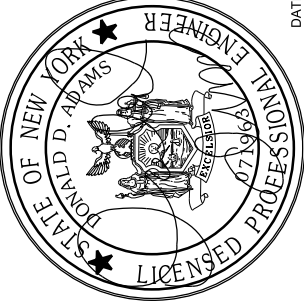
| TABLE OF BENCHMARKS |             |        |      |                                 |           |
|---------------------|-------------|--------|------|---------------------------------|-----------|
| NO.                 | B STATION   | OFFSET | SIDE | DESCRIPTION                     | ELEVATION |
| BM 1                | TR 02+69.47 | 31.3'  | LT   | RAILROAD SPIKE SET IN 6" ASH    | 1321.92   |
| BM 2                | TR 02+20.14 | 25.9'  | LT   | RAILROAD SPIKE SET IN 8" POPLAR | 1317.40   |

NOTES:

1. THE BASELINE INFORMATION TO BE PROVIDED IN DIGITAL FORMAT AS SUPPLEMENTAL INFORMATION TO THE CONTRACTOR.
2. VERTICAL DATUM BASED ON NAVD88 (CORS DERIVED).

| TABLE OF GUIDE RAIL |           |      |                     |                     |                           |                       |
|---------------------|-----------|------|---------------------|---------------------|---------------------------|-----------------------|
| STATION             |           | SIDE | ITEM<br>568.50 (LF) | ITEM<br>568.70 (LF) | ITEM<br>606.120101 (EACH) | ITEM<br>646.22 (EACH) |
| FROM                | TO        |      |                     |                     |                           |                       |
| TR 2+82.7           | TR 2+82.7 | LT   |                     |                     | 1                         |                       |
| TR 2+89.7           | TR 3+01.6 | LT   |                     | 12<50>              |                           | 2                     |
| TR 3+01.6           | TR 3+21.6 | LT   |                     | 20                  |                           |                       |
| TR 3+21.6           | TR 3+36.9 | LT   | 15.3                |                     |                           |                       |
| TR 3+36.9           | TR 3+56.9 | LT   |                     | 20                  |                           |                       |
| TR 3+56.9           | TR 3+68.8 | LT   |                     | 12<50>              |                           | 1                     |
| TR 3+68.8           | TR 3+75.8 | LT   |                     |                     | 1                         |                       |
| TR 3+03.6           | TR 3+10.7 | RT   |                     |                     | 1                         |                       |
| TR 3+10.7           | TR 3+22.5 | RT   |                     | 12<50>              |                           | 2                     |
| TR 3+22.5           | TR 3+42.5 | RT   |                     | 20                  |                           |                       |
| TR 3+42.5           | TR 3+57.9 | RT   | 15.3                |                     |                           |                       |
| TR 3+57.9           | TR 3+77.9 | RT   |                     | 20                  |                           |                       |
| TR 3+77.9           | TR 3+89.8 | RT   |                     | 12<50>              |                           |                       |
| TR 3+89.8           | TR 3+96.8 | RT   |                     |                     | 1                         | 1                     |
| TOTAL               |           |      | 31                  | 128                 | 4                         | 6                     |

| ITEM       | DESCRIPTION  | UNITS |
|------------|--|-------|
| 568.50     | STEEL BRIDGE RAIL (TWO-RAIL)   | LF    |
| 568.70     | TRANSITION BRIDGE RAILING  | LF    |
| 606.120101 | BOX BEAM GUIDE RAIL END PIECE  | EACH  |
| 646.22     | DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS | EACH  |




DATE: 4/4/2023

TRACY ROAD AT FEEDER POND  
CULVERT REPLACEMENT  
TOWN OF MORIAH  
ESSEX COUNTY, NY

MISCELLANEOUS TABLES - LOA 2

DATE: APRIL 2023CM No.: 120-098SCALE: AS NOTED



ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETHTOWN, NY 12832

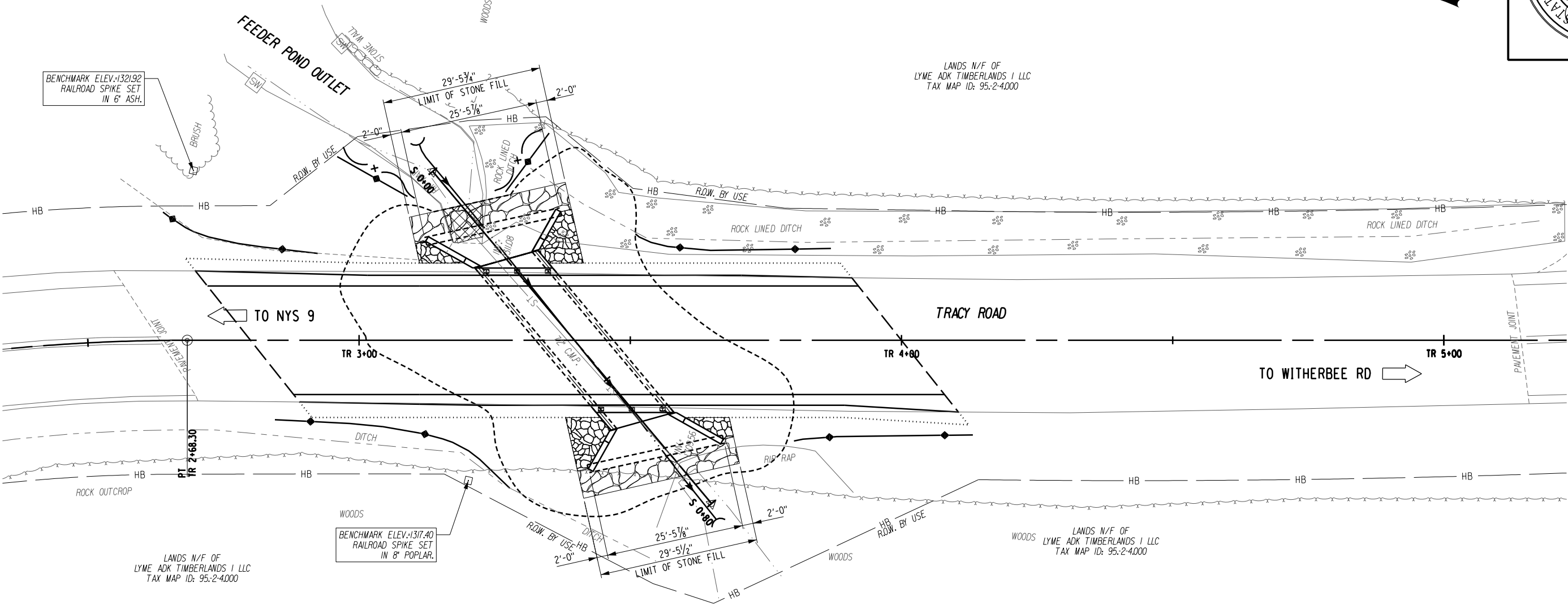
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ST2-4

SHEET NUMBER 18 of 30

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NOTES:

1. IN WETLAND LOCATIONS THAT REQUIRE EXCAVATION (SUCH AS EXCAVATION FOR THE PROPOSED CULVERT), CONTRACTOR SHALL REMOVE AND STOCKPILE TOP 12" OF EXISTING SOILS IN TEMPORARY WETLAND IMPACT AREA FOR LATER USE IN RESTORATION.
2. WETLAND RESTORATION AREA SHALL BE REESTABLISHED PER SPECIAL SPECIFICATION 203.01920007. ALL WETLAND AREAS TO BE RESTORED SHALL BE SEEDED WITH WETLAND SEED MIX AS SPECIFIED IN SPECIAL SPECIFICATION AND GENERAL NOTES. NO SOD MIX WILL BE ALLOWED IN WETLAND AREAS.
3. ALL STOCKPILED WETLAND SOILS SHALL BE PROTECTED BY PERIMETER EROSION CONTROL. COST FOR CONTAINING STOCKPILED SOILS SHALL BE INCLUDED IN ITEM 203.01920007.
4. SILT FENCE, ITEM 209.13, SHALL BE PLACED AROUND THE CONTRACTOR STAGING AREA.

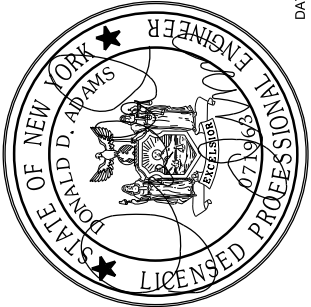
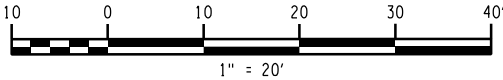
WETLAND RESTORATION/PROTECTION NOTES:

1. EROSION CONTROL MEASURES AS INDICATED ON THE PLANS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE EDGE OF THE EXISTING WETLANDS TO BE PRESERVED WITHOUT INTERFERING WITH GRADING OPERATIONS.
2. IN ORDER TO PROMOTE THE EARLY DEVELOPMENT OF PLANT MATERIAL WITHIN THE WETLANDS TO BE RECONSTRUCTED, THE CONTRACTOR SHALL RECONSTRUCT THE WETLAND AS EARLY IN THE CONSTRUCTION SEQUENCE AS POSSIBLE. IF RECONSTRUCTION OF THE WETLANDS IS DELAYED AT ANY TIME, AN APPROVED TEMPORARY EROSION CONTROL MEASURE SHALL BE APPLIED UNTIL RECONSTRUCTION IS CONTINUED.
3. PRIOR TO FINISH GRADING OF THE WETLAND AREAS, THE ENGINEER-IN-CHARGE SHALL BE NOTIFIED TO VERIFY THE FINAL SHAPE OF THE WETLAND AREA. FURTHER EXCAVATION AND/OR FILLING MAY BE ORDERED TO RESTORE WETLANDS TO ORIGINAL CONDITIONS AT NO ADDITIONAL PAYMENT.
4. WETLAND AREAS TEMPORARILY DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE AREAS SHOWN ON THE PLANS. THESE AREAS SHOULD BE RE-GRADED TO THE PRE-CONSTRUCTION CONTOURS AND SEEDED WITH WETLAND SEED MIX AS SOON AS WORK IN THESE AREAS IS FINISHED.
5. TEMPORARY PLASTIC BARRIER FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS OR A.O.B.E. PRIOR TO BEGINNING ANY WORK IN THESE AREAS.
6. THE CONTRACTOR SHALL INSTALL AT THE BEGINNING OF THE CONTRACT, AND MAINTAIN THROUGHOUT ITS DURATION, THE WETLAND PROTECTION BARRIER AROUND THE EXISTING WETLAND AREAS/STREAM COURSE AREAS AS SHOWN. BARRIER SHALL BE PLACED ALONG THE OUTSIDE PERIMETER OF THE STAGING AREA. THE CONTRACTOR SHALL NOT DISTURB EXISTING WETLAND AREAS/STREAM COURSE AREAS WITHIN THE FENCED AREAS.
7. THE WETLAND RESTORATION SHALL BE SUPERVISED BY QUALIFIED PERSONNEL PROVIDED BY ESSEX COUNTY OR THEIR DESIGNEE.

| WETLAND IMPACTS  |                       |
|------------------|-----------------------|
| QUADRANT         | PERMANENT IMPACT AREA |
| NORTH / UPSTREAM | 40 SF<br>.0009 ACRES  |

LEGEND:

- STONE FILLING (MEDIUM) ITEM 620.04
- STONE FILLING (LIGHT) ITEM 620.03
- PERMANENT WETLAND IMPACT
- TEMPORARY WATER DIVERSION STRUCTURE. ITEM 553.030001
- LIMITS OF STRUCTURE EXCAVATION, ITEM 206.01
- SILT FENCE ITEM 209.13
- TEMPORARY PLASTIC BARRIER FENCE ITEM 609.41010010



DATE: 4/4/2023



PREPARED FOR:  
ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETHTOWN, NY 12932

TRACY ROAD AT FEEDER POND  
CULVERT REPLACEMENT  
TOWN OF MORIAH  
ESSEX COUNTY, NY

EROSION AND SEDIMENT  
CONTROL PLAN - LOA 2

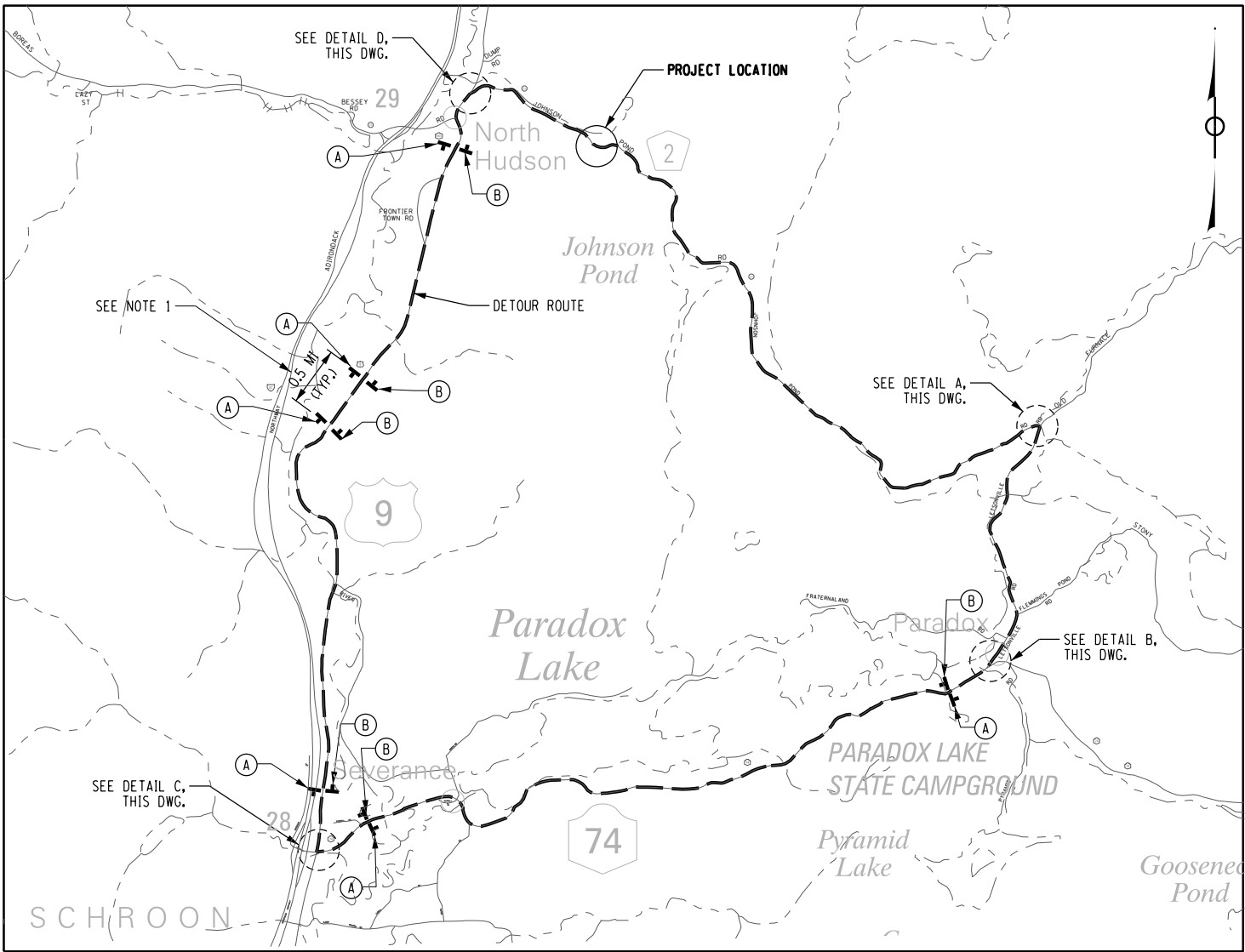
ST2-5

SHEET NUMBER 19 of 30

| NO. | REVISION | DATE | BY |
|-----|----------|------|----|
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|     |          |      |    |

| DATE: | APRIL 2023 | CM No.: | 120-098 | SCALE: | AS NOTED | DESIGNED: | L.A.S. | DRAWN BY: | K.H.D. | CHECKED: | A.T. |
|-------|------------|---------|---------|--------|----------|-----------|--------|-----------|--------|----------|------|
|-------|------------|---------|---------|--------|----------|-----------|--------|-----------|--------|----------|------|

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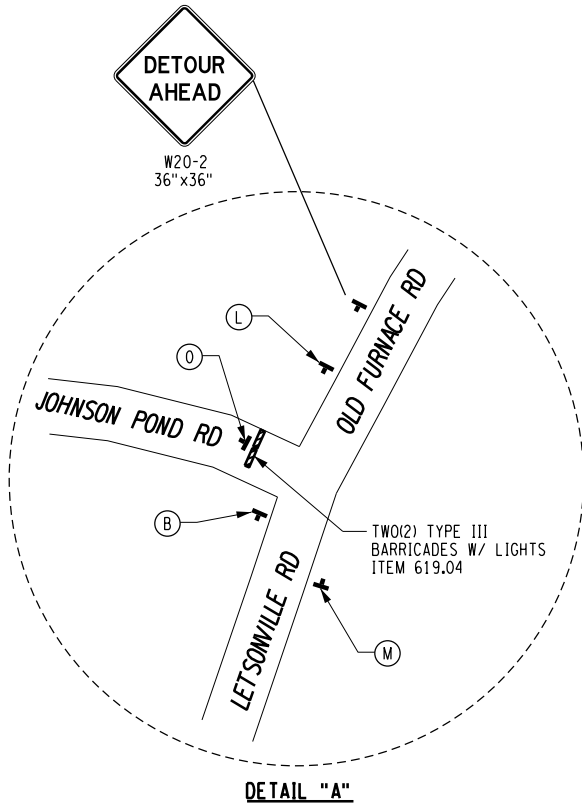


DETOUR PLAN  
(NOT TO SCALE)

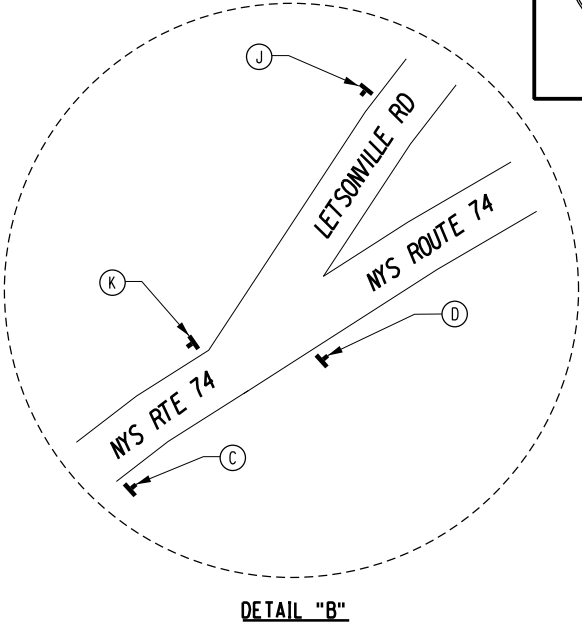
|   |   |  |  |   |  |   |  |  |
|---|---|--|--|---|--|---|--|--|
| <div><div>DETOUR EAST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div>M4-8 (24"x12")<br/>M3-2 (24"x12")<br/>M1-6 (24"x24")</div></div>   | <div><div>DETOUR WEST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div>M4-8 (24"x12")<br/>M3-4 (24"x12")<br/>M1-6 (24"x24")</div></div>   | <div><div>DETOUR EAST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Left Turn Arrow</div><div>M4-8 (24"x12")<br/>M3-2 (24"x12")<br/>M1-6 (24"x24")<br/>M5-1L (21"x15")</div></div></div> | <div><div>DETOUR EAST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Left Turn Arrow</div><div>M4-8 (24"x12")<br/>M3-2 (24"x12")<br/>M1-6 (24"x24")<br/>M6-1L (21"x15")</div></div></div> | <div><div>DETOUR EAST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Right Turn Arrow</div><div>M4-8 (24"x12")<br/>M3-2 (24"x12")<br/>M1-6 (24"x24")<br/>M5-1R (21"x15")</div></div></div> | <div><div>DETOUR EAST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Through Arrow</div><div>M4-8 (24"x12")<br/>M3-2 (24"x12")<br/>M1-6 (24"x24")<br/>M6-1R (21"x15")</div></div></div> | <div><div>DETOUR EAST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Through Arrow</div><div>M4-8 (24"x12")<br/>M3-2 (24"x12")<br/>M1-6 (24"x24")<br/>M6-3 (21"x15")</div></div></div> | <div><div>DETOUR WEST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Left Turn Arrow</div><div>M4-8 (24"x12")<br/>M3-4 (24"x12")<br/>M1-6 (24"x24")<br/>M5-1L (21"x15")</div></div></div> | <div><div>DETOUR WEST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Left Turn Arrow</div><div>M4-8 (24"x12")<br/>M3-4 (24"x12")<br/>M1-6 (24"x24")<br/>M6-1L (21"x15")</div></div></div> |
| <div><div>DETOUR WEST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Right Turn Arrow</div><div>M4-8 (24"x12")<br/>M3-4 (24"x12")<br/>M1-6 (24"x24")<br/>M5-1R (21"x15")</div></div></div> | <div><div>DETOUR WEST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Right Turn Arrow</div><div>M4-8 (24"x12")<br/>M3-4 (24"x12")<br/>M1-6 (24"x24")<br/>M6-1R (21"x15")</div></div></div> | <div><div>DETOUR WEST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>Through Arrow</div><div>M4-8 (24"x12")<br/>M3-4 (24"x12")<br/>M1-6 (24"x24")<br/>M6-3 (21"x15")</div></div></div>    | <div><div>END DETOUR EAST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>M4-8a (24"x18")<br/>M3-2 (24"x12")<br/>M1-6 (24"x24")</div></div></div>  | <div><div>END DETOUR WEST</div><div><div>ESSEX COUNTY</div><div>78</div></div><div><div>M4-8a (24"x18")<br/>M3-4 (24"x12")<br/>M1-6 (24"x24")</div></div></div>   | <div><div>BRIDGE OUT 5 MILES AHEAD<br/>LOCAL TRAFFIC ONLY</div><div><div>Left Arrow</div><div>DETOUR</div></div><div>R11-3A (60"x30")<br/>M4-10L (48"x19")</div></div>                                 |   | <div><div>BRIDGE OUT 1 MILE AHEAD<br/>LOCAL TRAFFIC ONLY</div><div><div>Right Arrow</div><div>DETOUR</div></div><div>R11-3A (60"x30")<br/>M4-10R (48"x19")</div></div>                                   |  |

NOTES:

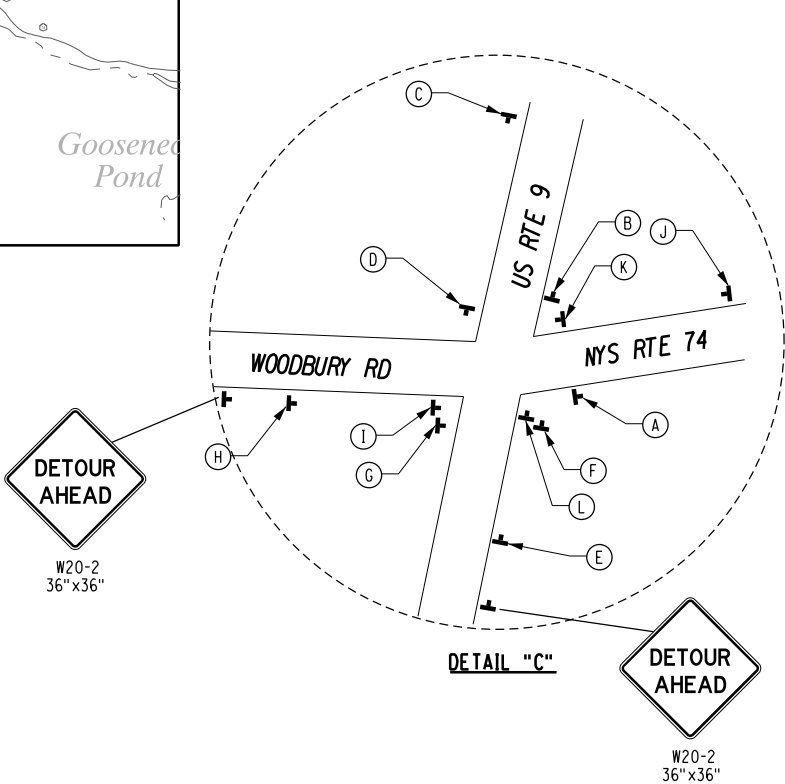
1. CONTRACTOR SHALL PLACE CONFIRMATION SIGNAGE UTILIZING M4-8, M1-5, AND M3-2 OR M3-4 ALONG THE PROPOSED DETOUR AT A MAXIMUM DISTANCE OF EVERY 1/2 MILE.



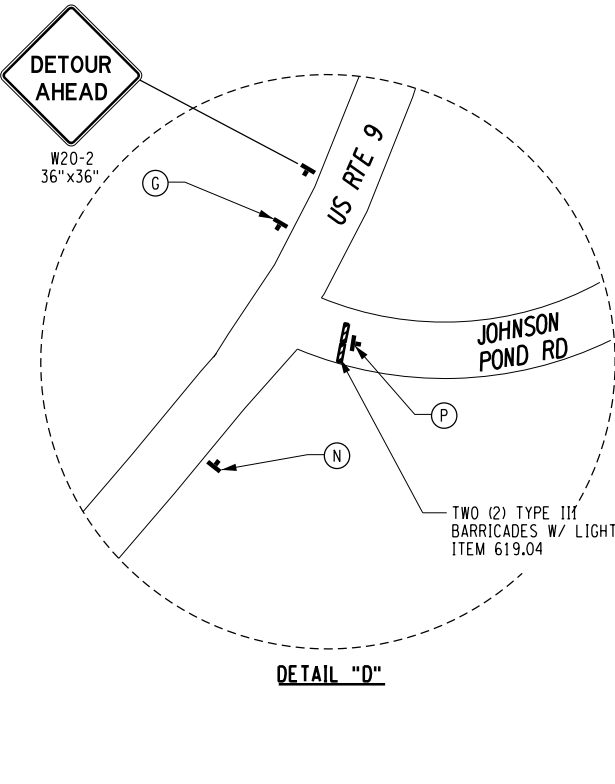
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

| LEGEND |                      |
|--------|----------------------|
|        | DETOUR SIGN LOCATION |
|        | DETOUR ROUTE         |
|        | SIGN FACE NUMBER     |

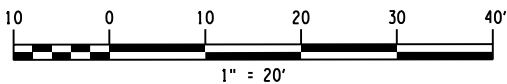
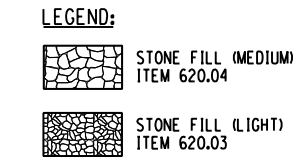


|  |                       |            |           |          |          |          |
|--|-----------------------|------------|-----------|----------|----------|----------|
|  | NO.                   | BY         | DATE      | REVISION |          |          |
|  |                       |            |           |          |          |          |
| JOHNSON POND CULVERT REPLACEMENT<br>TOWN OF NORTH HUDSON<br>ESSEX COUNTY, NY | DESIGNED:             | C.O.       | DRAWN BY: | K.H.D.   | CHECKED: | L.A.S.   |
| WORK ZONE TRAFFIC CONTROL<br>DETOUR PLAN - LOA 3                             | DATE:                 | APRIL 2023 | CM No.:   | 120-098  | SCALE:   | AS NOTED |
| TCP3-1   | SHEET NUMBER 20 of 30 |            |           |          |          |          |


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

**NOTE:**

1. DRIVEWAY APRON SHALL CONSIST OF 6" TYPE II SUBBASE AND 2" OF 12.5mm WMA MIN.



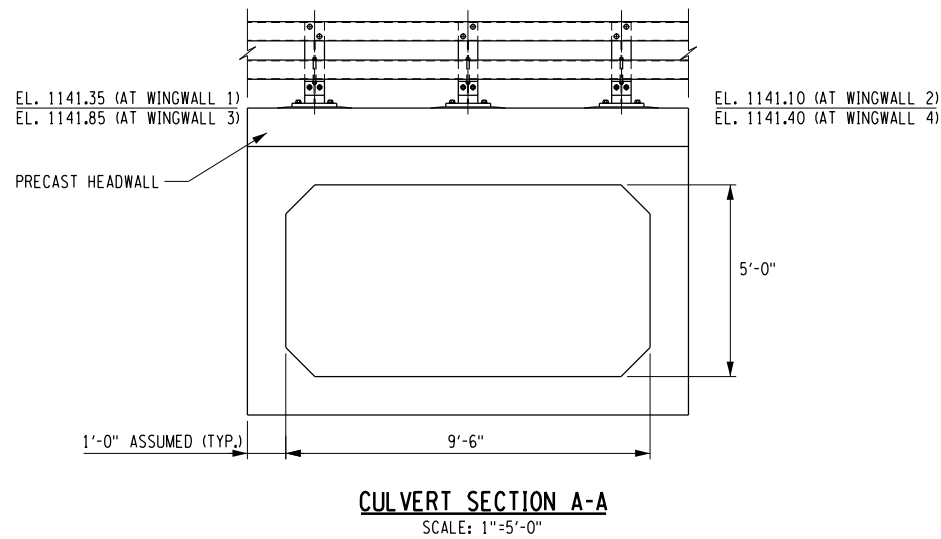
DATE: 4/4/2023

|  |   |            |           |         |          |          |      |    |
|--|---|------------|-----------|---------|----------|----------|------|----|
| JOHNSON POND CULVERT REPLACEMENT<br>TOWN OF NORTH HUDSON<br>ESSEX COUNTY, NY |                       |            |           |         | NO.      | REVISION | DATE | BY |
| GENERAL PLAN<br>JOHNSON POND ROAD  | PREPARED FOR:<br>ESSEX COUNTY<br>DEPARTMENT OF PUBLIC WORKS<br>8053 US ROUTE 9<br>ELIZABETHTOWN, NY 12932 |            |           |         |          |          |      |    |
|  | DESIGNED:   | C.O.       | DRAWN BY: | K.H.D.  | CHECKED: | L.A.S.   |      |    |
|  | DATE:   | APRIL 2023 | CM No.:   | 120-098 | SCALE:   | AS NOTED |      |    |
|  |   |            |           |         |          |          |      |    |
|  |   |            |           |         |          |          |      |    |

# ST3-1

SHEET NUMBER 21 of 30

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



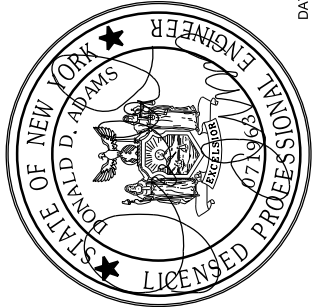
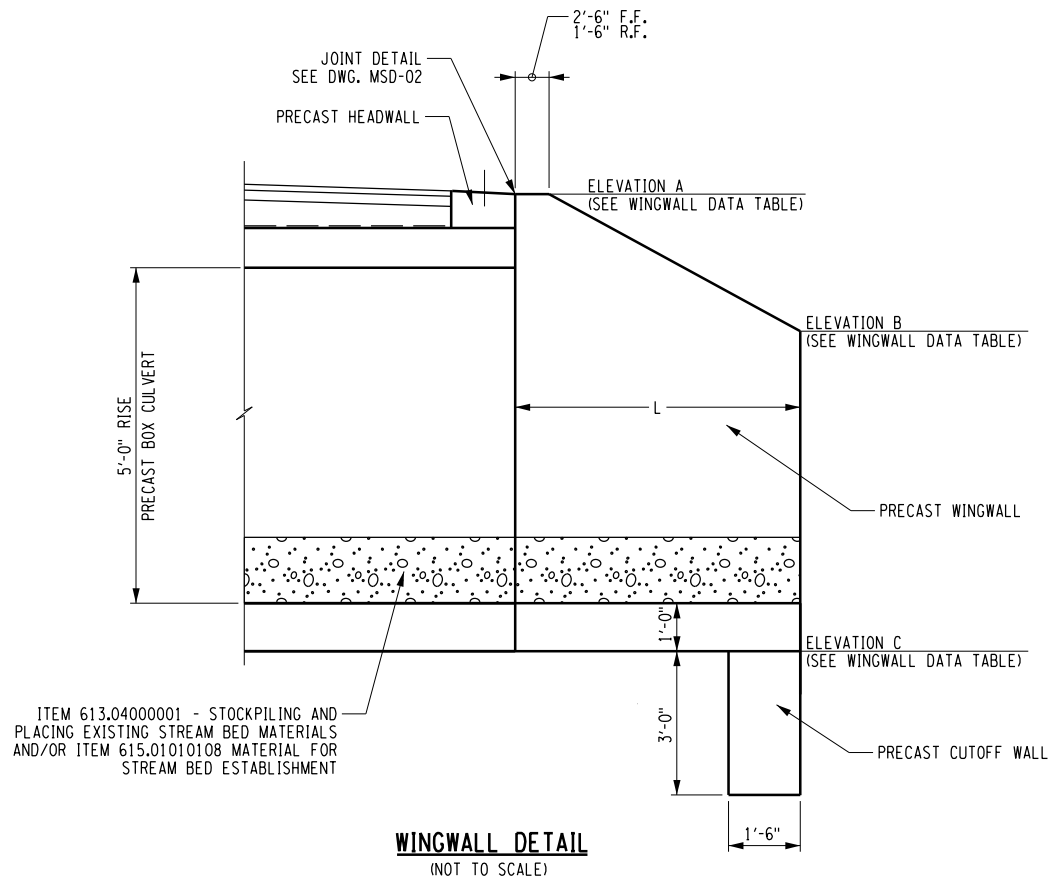
| WINGWALL DATA TABLE |             |             |             |               |
|---------------------|-------------|-------------|-------------|---------------|
| LOCATION            | ELEVATION A | ELEVATION B | ELEVATION C | DIMENSION "L" |
| WINGWALL 1          | 1141.35     | 1135.67     | •           | 10'-0"        |
| WINGWALL 2          | 1141.00     | 1135.67     | •           | 10'-0"        |
| WINGWALL 3          | 1141.85     | 1136.67     | •           | 8'-0"         |
| WINGWALL 4          | 1141.40     | 1136.67     | •           | 8'-0"         |

| HYDRAULIC DATA                                   |       |              |            |
|--|-------|--------------|------------|
| DRAINAGE AREA = 0.84 mi <sup>2</sup>             |       | DESIGN FLOOD | BASE FLOOD |
| RECURRENCE INTERVAL                              |       | 50           | 100        |
| PEAK DISCHARGE                                   |       | 92           | 106        |
| HIGH WATER ELEVATION<br>@ PT. OF MAX BACKWATER   | EXIST | 1137.88      | 1138.06    |
|  | PROP. | 1136.96      | 1137.02    |
| AVG. VELOCITY THRU STRUCTURE<br>@ DESIGN FLOOD = |       | 2.4          | 2.8        |


| CULVERT DESIGN DATA TABLE   |           |
|---|-----------|
| CLEAR SPAN, FT  | 9'-6"     |
| CLEAR RISE, FT  | 5'-0"     |
| • MIN. FILL HEIGHT, FT  | 2'-0"     |
| • MAX. FILL HEIGHT, FT  | 2'-6"     |
| (Q SKEW) SKEW ANGLE<br>TO CHORD, DEG.   | 26°47'51" |
| LIVE LOAD   | HL-93     |
| • BASED ON ASSUMED TOP SLAB THICKNESS<br>OF 12". FABRICATOR SHALL ADJUST<br>BASED ON ACTUAL TOP SLAB THICKNESS. |           |

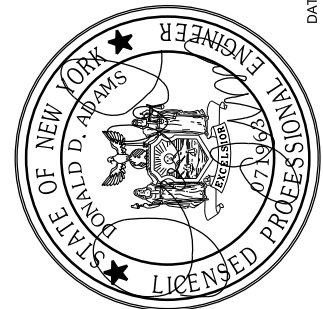
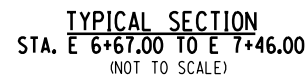
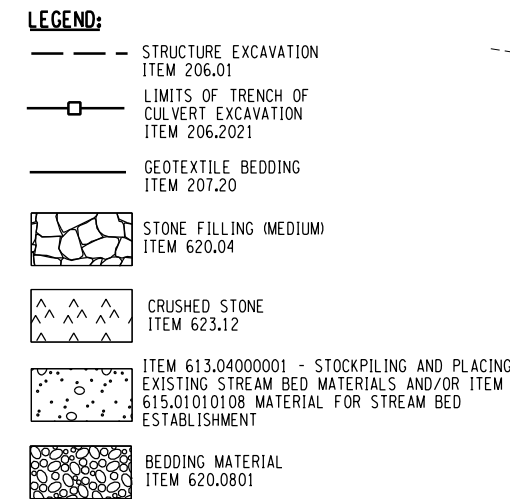
| DESCRIPTION  | NORTHING    | EASTING      | ELEVATION |
|--------------|-------------|--------------|-----------|
| P1: LT BEGIN | 701128.7500 | 1864927.7679 | 1132.00   |
| P2: LT END   | 701138.0313 | 1864923.1709 | 1131.90   |
| P3: RT BEGIN | 701116.9218 | 1864904.0505 | 1132.65   |
| P4: RT END   | 701115.9447 | 1864904.5345 | 1132.55   |
| P5: LT BEGIN | 701125.5846 | 1864937.3152 | 1131.90   |
| P6: LT END   | 701147.5494 | 1864926.4405 | 1131.65   |
| P7: RT BEGIN | 701099.0460 | 1864906.4955 | 1132.85   |
| P8: RT END   | 701118.4624 | 1864896.8791 | 1132.65   |

•• ELEVATIONS ARE AT BOTTOM OF SLAB (TYP.)



DATE: \_\_\_\_\_

|              |  |            |  |  |  |  |  |           |  |          |  |           |  |                        |  |
|--------------|--|------------|--|--|--|--|--|-----------|--|----------|--|-----------|--|------------------------|--|
| <b>ST3-2</b> |  |            |  | JOHNSON POND CULVERT REPLACEMENT<br>TOWN OF NORTH HUDSON<br>ESSEX COUNTY, NY |  |  <b>Creighton Manning</b> |  | NO.       |  | REVISION |  | DATE      |  | BY                     |  |
|              |  |            |  |  |  | PREPARED FOR:  |  |           |  |          |  |           |  |                        |  |
|              |  |            |  | LAYOUT PLAN - LOA 3  |  | ESSEX COUNTY<br>DEPARTMENT OF PUBLIC WORKS<br>8053 US ROUTE 9<br>ELIZABETHTOWN, NY 12932                       |  |           |  |          |  |           |  |                        |  |
| DATE:        |  | APRIL 2023 |  | CM No.: 120-098  |  | SCALE: AS NOTED  |  | DESIGNED: |  | C.O.     |  | DRAWN BY: |  | K.H.D. CHECKED: L.A.S. |  |

[illegible]

ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETHTOWN, NY 12932

TYPICAL SECTION - LOA 3

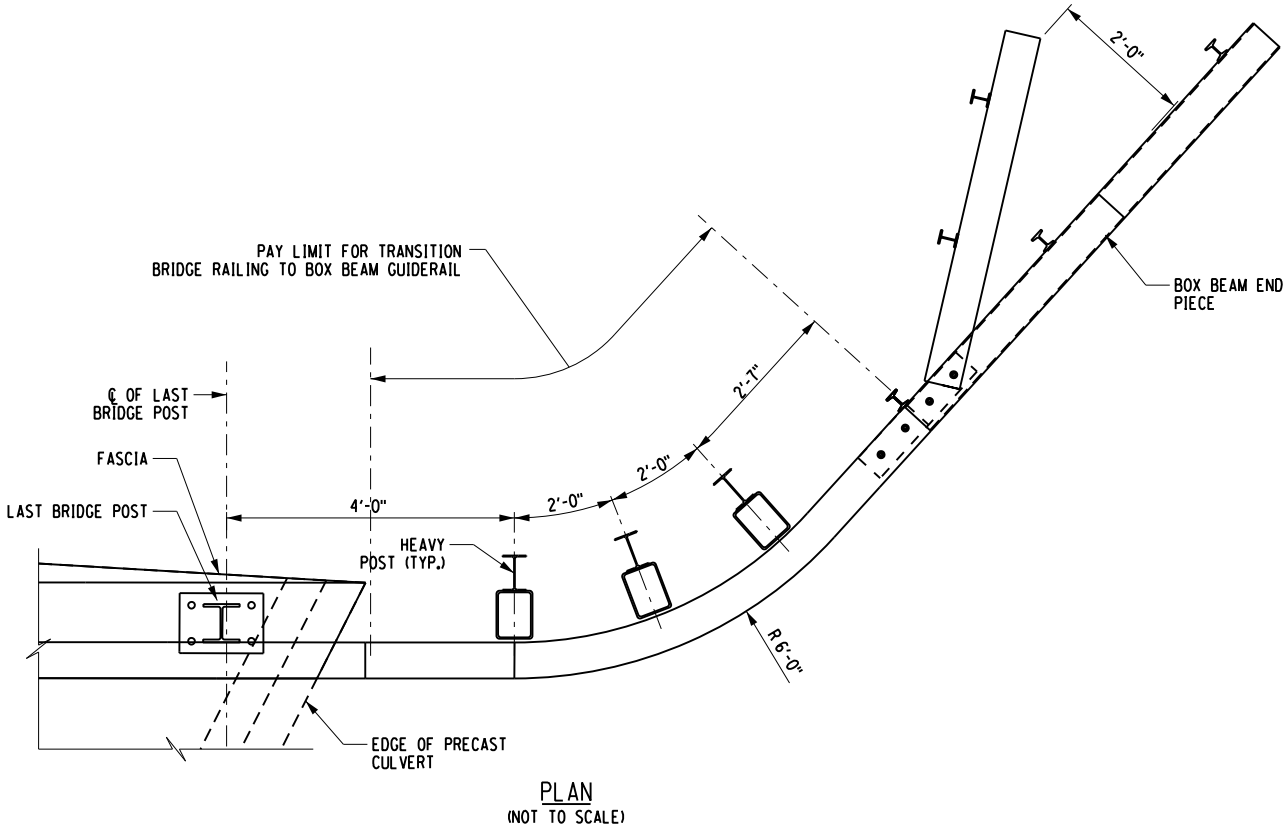
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|-------|------------|-----------------|--------|----------|-----------|------|-----------|--------|----------|--------|
| DATE: | APRIL 2023 | CM No.: 120-098 | SCALE: | AS NOTED | DESIGNED: | C.O. | DRAWN BY: | K.H.D. | CHECKED: | L.A.S. |
|-------|------------|-----------------|--------|----------|-----------|------|-----------|--------|----------|--------|

# ST3-3

FILE NAME = N:\Projects\2020\120-098 Essex DPW - Halloween\Working\LOA - 3 - Johnson Pond Rd\CADD\vdgn\120-098-LOA3.cpb.tbl.mrs.01.dgn  
DATE/TIME = 4/5/2023 4:02:40 PM

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

| TABLE OF HORIZONTAL ALIGNMENT |          |   |              |             |
|-------------------------------|----------|---|--------------|-------------|
| POINT                         | STATION  | CURVE DATA  | COORDINATE   |             |
|                               |          |   | NORTH        | EAST        |
| JOHNSON POND ROAD             |          |   |              |             |
| POB                           | 10+00.00 | AZ 118°51'26"<br>LENGTH =149.56 FT<br><br>RADIUS = 320.00 FT<br>DELTA =34°11'59.67" LT<br>LENGTH = 191.01 FT<br>TANGENT =98.44 FT | 1865001.4165 | 700962.3385 |
| PC                            | 11+49.56 |   | 1864929.2355 | 701093.3255 |
| PI                            | 12+48.00 |   | 1864881.7234 | 701179.5458 |
| PT                            | 13+40.57 |   | 1864890.8899 | 701277.5627 |
| POE                           | 13+56.08 | AZ 84°39'26"<br>LENGTH =15.51 FT  | 1864892.3344 | 701293.0093 |
| STREAM                        |          |   |              |             |
| POB                           | 0+00.00  | AZ 49°50'51"<br>LENGTH =54.33 FT  | 1864898.5219 | 701101.4515 |
| POE                           | 0+54.32  |   | 1864933.5519 | 701142.9737 |



| ESTIMATE OF QUANTITIES |  |      |                    |                |
|------------------------|--|------|--------------------|----------------|
| ITEM NUMBER            | DESCRIPTION  | UNIT | ESTIMATED QUANTITY | FINAL QUANTITY |
| 201.06                 | CLEARING AND GRUBBING  | LS   | 1                  |                |
| 203.02                 | UNCLASSIFIED EXCAVATION AND DISPOSAL   | CY   | 48                 |                |
| 203.03                 | EMBANKMENT IN PLACE  | CY   | 189                |                |
| 203.21                 | SELECT STRUCTURE FILL  | CY   | 85                 |                |
| 203.24010017           | SHOULDER BACKUP MATERIAL   | TON  | 9                  |                |
| 206.01                 | STRUCTURE EXCAVATION   | CY   | 461                |                |
| 206.0201               | TRENCH AND CULVERT EXCAVATION  | CY   | 74                 |                |
| 207.20                 | GEOTEXTILE BEDDING   | SY   | 103                |                |
| 207.26                 | PREFABRICATED COMPOSITE STRUCTURAL DRAIN   | SY   | 71                 |                |
| 209.13                 | SILT FENCE-TEMPORARY   | LF   | 105                |                |
| 304.12                 | SUBBASE COURSE, TYPE 2   | CY   | 82                 |                |
| 404.128301             | 12.5 F3 TOP COURSE WMA, 80 SERIES COMPACTION   | TON  | 28                 |                |
| 404.198901             | 19 F9 BINDER COURSE WMA, 80 SERIES COMPACTION  | TON  | 45                 |                |
| 407.0102               | DILUTED TACK COAT  | GAL  | 15                 |                |
| 553.030001             | TEMPORARY WATERWAY DIVERSION STRUCTURE   | EACH | 1                  |                |
| 568.50                 | STEEL BRIDGE RAILING (TWO RAIL)  | LF   | 28                 |                |
| 568.70                 | TRANSITION BRIDGE RAILING  | LF   | 105                |                |
| 595.50000018           | SHEET-APPLIED WATERPROOFING MEMBRANE   | SF   | 405                |                |
| 603.64100515           | PRECAST CONCRETE BOX CULVERT   | LF   | 43                 |                |
| 606.120101             | BOX BEAM END PIECE   | EACH | 4                  |                |
| 608.020102             | HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS,AND VEGETATION CONTROL STRIPS | TON  | 3                  |                |
| 610.16010020           | TURF ESTABLISHMENT - PERFORMANCE   | SY   | 94                 |                |
| 613.04000001           | STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS                                      | CY   | 20                 |                |
| 615.01010108           | MATERIAL FOR STREAM BED ESTABLISHMENT  | CY   | 6                  |                |
| 619.01                 | BASIC WORK ZONE TRAFFIC CONTROL  | LS   | 1                  |                |
| 620.03                 | STONE FILLING (LIGHT)  | CY   | 6                  |                |
| 620.04                 | STONE FILLING (MEDIUM)   | CY   | 57                 |                |
| 620.0801               | BEDDING MATERIAL, TYPE 1   | CY   | 10                 |                |
| 623.12                 | CRUSHED STONE (IN-PLACE MEASURE)   | CY   | 37                 |                |
| 625.01                 | SURVEY OPERATIONS  | LS   | 1                  |                |
| 627.50140008           | CUTTING PAVEMENT   | LF   | 64                 |                |
| 646.22                 | DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS                     | EACH | 6                  |                |
| 646.32                 | STEEL POST, 2.0 LB/FT  | EACH | 4                  |                |
| 697.03                 | FIELD CHANGE PAYMENT   | DC   | 16000              |                |
| 699.040001             | MOBILIZATION   | LS   | 1                  |                |

| TABLE OF BENCHMARKS |           |        |      |                      |           |
|---------------------|-----------|--------|------|----------------------|-----------|
| NO.                 | B STATION | OFFSET | SIDE | DESCRIPTION          | ELEVATION |
| BM 1                | 11+17.08  | 17.70' | RT   | SPIKE IN SPRUCE TREE | 1145.76   |
| BM 2                | 12+42.84  | 21.24' | LT   | SPIKE IN SPRUCE TREE | 1139.93   |

NOTES:


1. THE BASELINE INFORMATION TO BE PROVIDED IN DIGITAL  
FORMAT AS SUPPLEMENTAL INFORMATION TO THE  
CONTRACTOR.
2. VERTICAL DATUM BASED ON NAVD88 (CORS DERIVED).

| STATION |        | SIDE | ITEM 568.50<br>(LF) | ITEM 568.70<br>(LF) <RADIUS > | ITEM<br>606.120101<br>(EA) | ITEM 646.22<br>(EA) |
|---------|--------|------|---------------------|-------------------------------|----------------------------|---------------------|
| FROM    | TO     |      |                     |                               |                            |                     |
| 6+65.0  | 6+85.2 | LT   |                     | 20<50>                        | 1                          |                     |
| 6+85.2  | 6+97.5 | LT   |                     | 12                            |                            | 2                   |
| 6+97.5  | 7+11.8 | LT   | 14.0                |                               |                            |                     |
| 7+11.8  | 7+13.9 | LT   |                     | 2                             |                            |                     |
| 7+13.9  | 7+18.3 | LT   |                     | 5 <6>                         |                            | 1                   |
| 7+18.3  | 7+20.1 | LT   |                     | 2                             | 1                          |                     |
| 6+55.3  | 6+68.7 | RT   |                     | 14<150>                       |                            |                     |
| 6+68.7  | 6+86.2 | RT   |                     | 18                            | 1                          | 2                   |
| 6+86.2  | 6+99.7 | RT   | 14.0                |                               |                            |                     |
| 6+99.7  | 7+17.4 | RT   |                     | 18                            |                            |                     |
| 7+17.4  | 7+30.8 | RT   |                     | 14<150>                       | 1                          | 1                   |
| TOTAL   |        |      | 28                  | 102                           | 4                          | 6                   |

| TABLE OF GUIDE RAIL ITEMS AND DESCRIPTIONS |                                 |       |
|--|---------------------------------|-------|
| ITEM                                       | DESCRIPTION                     | UNITS |
| 568.50                                     | STEEL BRIDGE RAILING (TWO RAIL) | LF    |
| 568.70                                     | TRANSITION BRIDGE RAILING       | LF    |
| 606.120101                                 | BOX BEAM END PIECE              | EA    |



DATE:  
4/4/2023

|  |            |         |         |   |          |           |      |           |          |          |        |
|--|------------|---------|---------|---|----------|-----------|------|-----------|----------|----------|--------|
| JOHNSON POND CULVERT REPLACEMENT<br>TOWN OF NORTH HUDSON<br>ESSEX COUNTY, NY |            |         |         | <br><b>Creighton Manning</b> |          |           |      | NO.       | REVISION | BY       | DATE   |
| MISCELLANEOUS TABLES - LOA 3   |            |         |         | PREPARED FOR:<br><br>ESSEX COUNTY<br>DEPARTMENT OF PUBLIC WORKS<br>8053 US ROUTE 9<br>ELIZABETHTOWN, NY 2932      |          |           |      |           |          |          |        |
|  |            |         |         |   |          |           |      |           |          |          |        |
|  |            |         |         |   |          |           |      |           |          |          |        |
|  |            |         |         |   |          |           |      |           |          |          |        |
|  |            |         |         |   |          |           |      |           |          |          |        |
| DATE:  | APRIL 2023 | CM No.: | 120-098 | SCALE:  | AS NOTED | DESIGNED: | C.O. | DRAWN BY: | K.H.D.   | CHECKED: | L.A.S. |



Creighton Manning

ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETHTOWN, NY 12932

JOHNSON POND CULVERT REPLACEMENT  
TOWN OF NORTH HUDSON  
ESSEX COUNTY, NY

MISCELLANEOUS TABLES - LOA 3

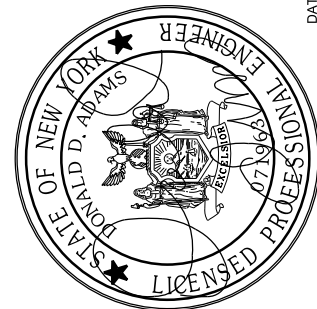
# ST3-4

SHEET NUMBER 24 of 30



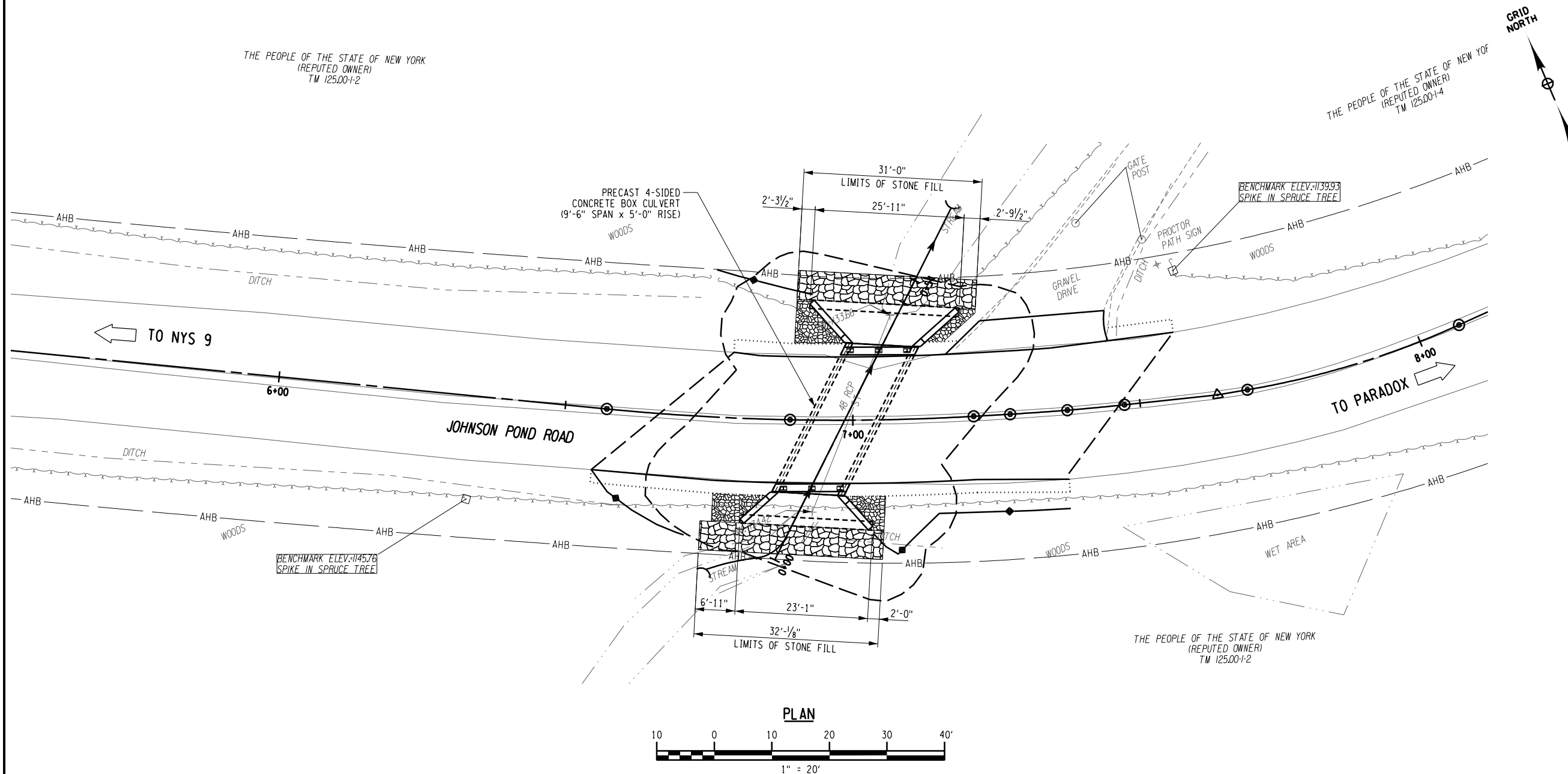
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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

THE PEOPLE OF THE STATE OF NEW YORK  
(REPUTED OWNER)  
TM 12500-1-4



DATE: 4/11/2022

|  |                  |  |                 |          |  |      |  |    |  |
|--|------------------|--|-----------------|----------|--|------|--|----|--|
| <div> <div>JOHNSON POND CULVERT REPLACEMENT<br/>TOWN OF NORTH HUDSON<br/>ESSEX COUNTY, NY</div> <div>  <div> <div>Creighton</div> <div>Manning</div> </div> </div> </div> |                  | NO.  |                 | REVISION |  | DATE |  | BY |  |
|  |                  |  |                 |          |  |      |  |    |  |
| <div> <div>EROSION AND SEDIMENT<br/>CONTROL PLAN - LOA 3</div> </div>  |                  | PREPARED FOR:  |                 |          |  |      |  |    |  |
|  |                  | <div> <div>ESSEX COUNTY</div> <div>DEPARTMENT OF PUBLIC WORKS</div> <div>8053 US ROUTE 9</div> <div>ELIZABETHTOWN, NY 12932</div> </div> |                 |          |  |      |  |    |  |
| DATE: APRIL 2023   | DRAWN BY: J.M.B. | DESIGNER: C.O.   | CHECKED: J.A.S. |          |  |      |  |    |  |
| SCALE: AS NOTED  |                  |  |                 |          |  |      |  |    |  |



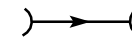
**LEGEND:**



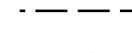
STONE FILLING (MEDIUM)  
ITEM 620.04



STONE FILLING (LIGHT)  
ITEM 620.03



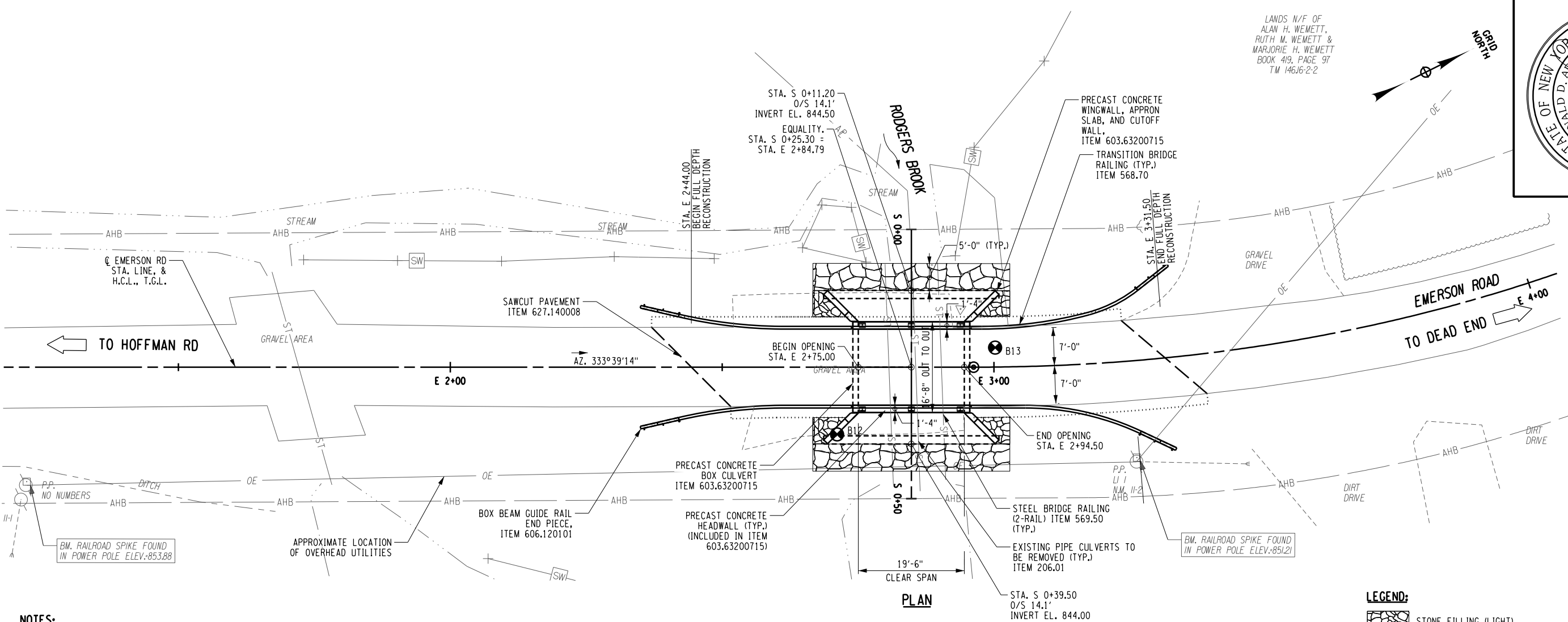
TEMPORARY WATER DIVERSION  
STRUCTURE. ITEM 553.030001



SILT FENCE  
ITEM 209.13

FILE NAME = N:\Projects\2023\120-098 Essex DPW - Halloween\Working\LOA - 7 - Emerson Rd\CADD\dgn\120-098-LOA7-cpb-gen\_01.dgn  
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



LANDS N/F OF  
ALAN H. WEMETT,  
RUTH M. WEMETT &  
MARJORIE H. WEMETT  
BOOK 419, PAGE 97  
TM 146J6-2-2



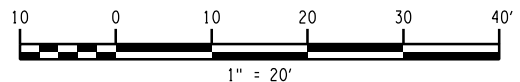
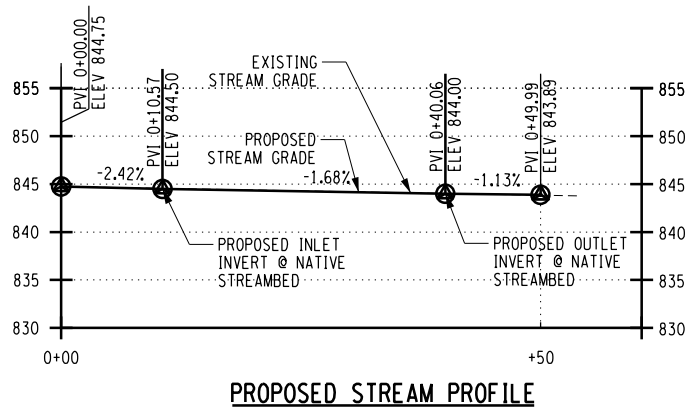
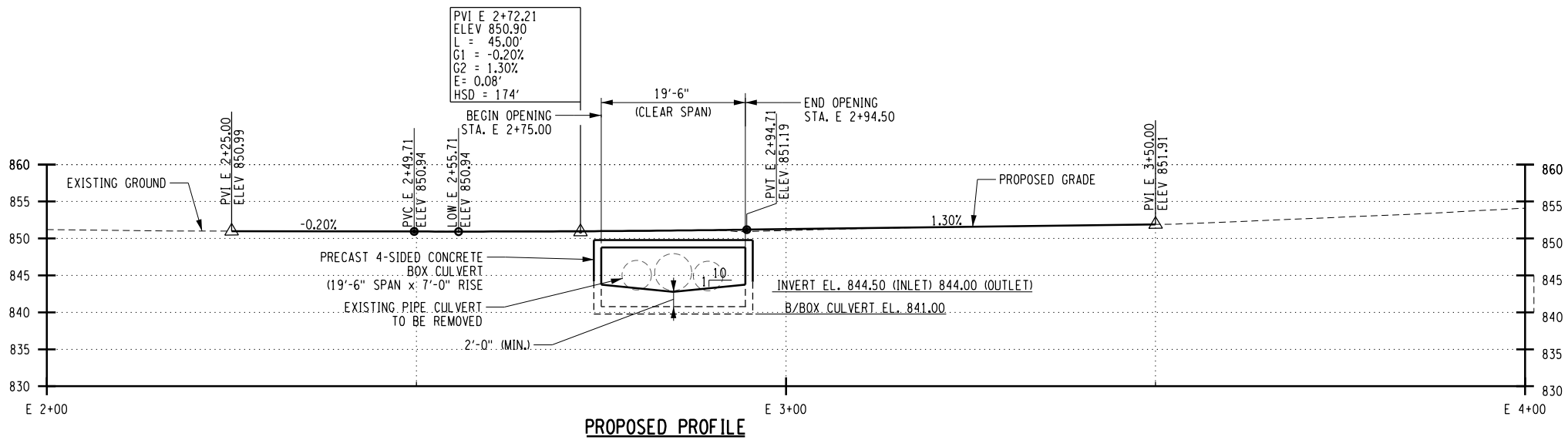
DATE:  
4/4/2023

#### NOTES:

- PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AT THIS SITE. IN ORDER TO ACCOMPLISH THIS, A TEMPORARY BRIDGE THAT SPANS THE CHANNEL IS ANTICIPATED AT THIS SITE.
- THE TEMPORARY BRIDGE SHALL MEET THE FOLLOWING REQUIREMENTS:  
SHALL HAVE A MINIMUM UNIFORM LIVE LOAD OF 85 PSF  
SHALL HAVE A SOLID BARRIER/RAIL SYSTEM WITH A MINIMUM HEIGHT OF  $42\frac{3}{4}$ " THAT SHALL EXTEND OFF THE STRUCTURE FAR ENOUGH TO PROTECT PEDESTRIANS FROM ANY DROP-OFF CONDITION, A.O.B.E..
- ALTERNATIVES TO THIS OPTION MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- IT IS ANTICIPATED THAT THE PEDESTRIAN BRIDGE WILL BE INCORPORATED IN THE DETOUR. WHATEVER DESIGN IS ULTIMATELY UTILIZED, ALL COSTS ASSOCIATED WITH THE TEMPORARY PEDESTRIAN BRIDGE AND APPROACHES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 619.01 BASIC WORK ZONE TRAFFIC CONTROL.
- UPON COMPLETION OF THE PEDESTRIAN DETOUR AND OTHER SITE WORK, INCLUDING THE PLACEMENT OF STONE FILL, THE DETOUR SITE SHALL BE RESTORED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 107-08 OF THE STANDARD SPECIFICATIONS: PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE.

#### LEGEND:

- STONE FILLING (LIGHT)
- STONE FILLING (HEAVY)
- B-X BORING LOCATION



**Creighton Manning**

ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETHTOWN, NY 12932

EMERSON CULVERT  
CULVERT REPLACEMENT  
TOWN OF SCHROON  
ESSEX COUNTY, NY

GENERAL PLAN  
AND PROFILE - LOA 7

**ST7-1**

SHEET NUMBER 26 of 30

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

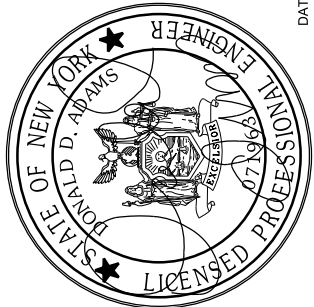


| WINGWALL DATA TABLE |             |             |             |               |
|---------------------|-------------|-------------|-------------|---------------|
| LOCATION            | ELEVATION A | ELEVATION B | ELEVATION C | DIMENSION "L" |
| WINGWALL 1          | 850.85      | 849.70      | 841.00      | 8'-0"         |
| WINGWALL 2          | 851.00      | 849.70      | 841.00      | 8'-0"         |
| WINGWALL 3          | 850.85      | 847.70      | 841.00      | 8'-0"         |
| WINGWALL 4          | 851.00      | 847.70      | 841.00      | 8'-0"         |

| CULVERT DESIGN DATA TABLE   |        |
|---|--------|
| CLEAR SPAN, FT  | 19'-6" |
| CLEAR RISE, FT  | 7'-0"  |
| • MIN. FILL HEIGHT, FT  | 10"    |
| • MAX. FILL HEIGHT, FT  | 15"    |
| (C SKEW) SKEW ANGLE<br>TO C OF ROADWAY, DEG.  | 0°     |
| LIVE LOAD   | HL-93  |
| • BASED ON ASSUMED TOP SLAB THICKNESS<br>OF 12". FABRICATOR SHALL ADJUST<br>BASED ON ACTUAL TOP SLAB THICKNESS. |        |
| • 1.2 MIN. LRFR RATING INVENTORY  |        |

| TABLE OF COORDINATES |             |             |            |
|----------------------|-------------|-------------|------------|
| DESCRIPTION          | NORTHING    | EASTING     | ELEVATION* |
| P1: LT BEGIN         | 683559.4045 | 1823740.867 | 841.00     |
| P2: LT END           | 683568.0585 | 1823758.342 | 841.00     |
| P3: RT BEGIN         | 683574.34   | 1823733.471 | 841.00     |
| P4: RT END           | 683582.994  | 1823750.945 | 841.00     |

**WINGWALL DETAIL**  
SCALE: 1/4"=1'-0"



DATE: 4/11/2023

[illegible]

PREPARED FOR: ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETHTOWN, NY 12932

EMERSON CULVERT  
CULVERT REPLACEMENT  
TOWN OF SCHROON  
ESSEX COUNTY, NY

LAYOUT PLAN - LOA 7








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|-------|------------|-----------------|-----------------|----------------|------------------|-----------------|
| DATE: | APRIL 2023 | CM No.: 120-098 | SCALE: AS NOTED | DESIGNED: J.O. | DRAWN BY: K.H.D. | CHECKED: L.A.S. |
|-------|------------|-----------------|-----------------|----------------|------------------|-----------------|

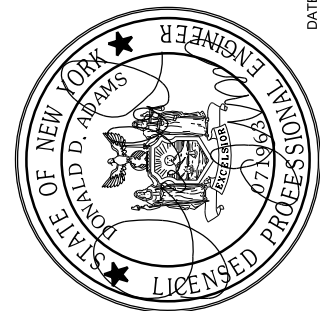
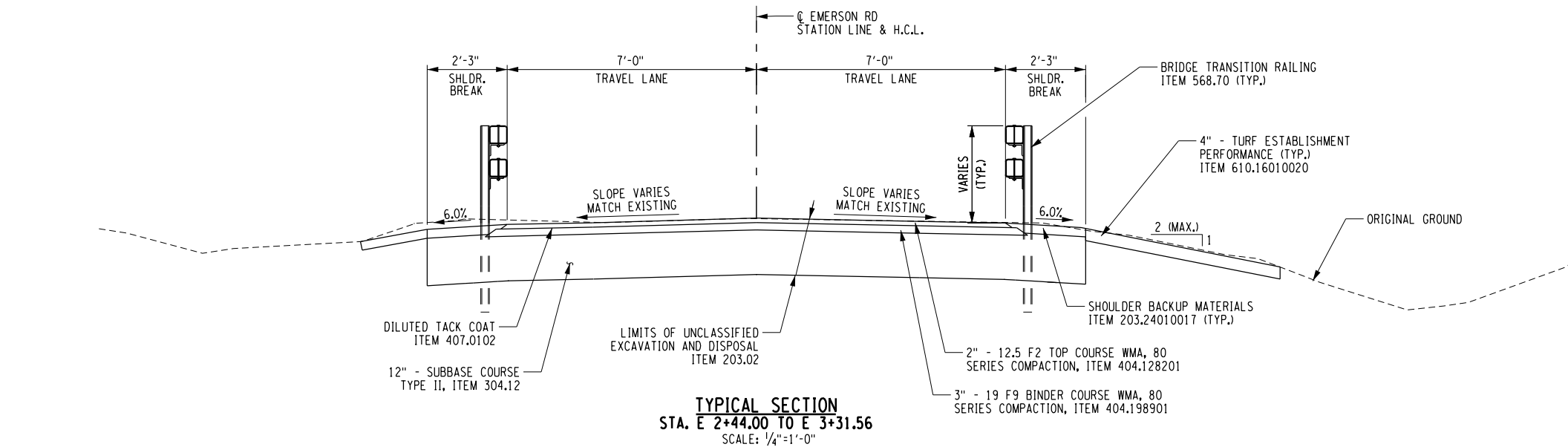
# ST7-2


SHEET NUMBER 27 of 30

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

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|   |  |
|---|--|
|  | STRUCTURE EXCAVATION<br>ITEM 206.01  |
|  | LIMITS OF TRENCH OF<br>CULVERT EXCAVATION<br>ITEM 206.2021   |
|  | GEOTEXTILE BEDDING<br>ITEM 207.20  |
|  | STONE FILLING (HEAVY)<br>ITEM 620.05   |
|  | BEDDING MATERIAL<br>ITEM 620.0801  |
|  | CRUSHED STONE MEETING THE REQUIREMENTS<br>OF MATERIAL DESIGNATION 703-0201, 703-0202<br>OR 703-0204 WITH A PRIMARY SIZE<br>DESIGNATION OF 2. ITEM 623.12 |
|  | ITEM 613.04000001 - STOCKPILING AND PLACING<br>EXISTING STREAM BED MATERIALS AND/OR ITEM<br>615.01010108 MATERIAL FOR STREAM BED<br>ESTABLISHMENT        |



|   |            |   |         |          |          |
|---|------------|---|---------|----------|----------|
| <b>ST7-3</b>  |            |   |         |          |          |
| SHEET NUMBER      28    OF    30  |            |   |         |          |          |
| EMERSON CULVERT<br>CULVERT REPLACEMENT<br>TOWN OF SCHROON<br>ESSEX COUNTY, NY |            |  <b>Creighton Manning</b><br><br>PREPARED FOR:<br>ESSEX COUNTY<br>DEPARTMENT OF PUBLIC WORKS<br>8053 US ROUTE 9<br>ELIZABETHTOWN, NY 12932 |         |          |          |
| DATE:   | APRIL 2023 | CW No.:   | 120-098 | SCALE:   | AS NOTED |
| DESIGNED:   | J.O.       | DRAWN BY:   | K.H.D.  | CHECKED: | L.A.S.   |
|   |            | NO.   |         |          |          |
|   |            | REVISION  |         |          |          |
|   |            | BY  |         |          |          |
|   |            | DATE  |         |          |          |

FILE NAME : N:\P\projects\2020\120-098 Essex DPW - Halloween\Working\LOA - 7 - Emerson Rd\CADD\dgn\120-098\_LOA7\_cpb.tbl.ms.01.dgn  
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

| TABLE OF HORIZONTAL ALIGNMENT |                          |   |                          |                        |
|-------------------------------|--------------------------|---|--------------------------|------------------------|
| POINT                         | STATION                  | CURVE DATA  | COORDINATE               |                        |
|                               |                          |   | NORTH                    | EAST                   |
| EMERSON ROAD                  |                          |   |                          |                        |
| POB                           | E. 1+00.00               | AZ 26°20'46.40"<br>LENGTH =203.58 FT  | 1823580.31               | 683489.19              |
| PC<br>PI                      | E. 3+03.58<br>E. 3+68.92 |   | 1823762.75<br>1823821.29 | 683579.54<br>683608.53 |
| PT                            | E. 4+32.24               | RADIUS = 300.00 FT<br>DELTA =24°34'18.31" LT<br>LENGTH = 128.66 FT<br>TANGENT =65.33 FT | 1823886.60               | 683610.56              |
| POE                           | E. 4+34.17               | AZ 1°46'28.09"<br>LENGTH =1.93 FT   | 1823888.53               | 683610.62              |
| STREAM                        |                          |   |                          |                        |
| POB                           | 0+00.00                  | AZ 116°20'46.40"<br>LENGTH =49.50 FT  | 1823757.15               | 683548.50              |
| POE                           | 0+49.50                  |   | 1823735.18               | 683592.86              |

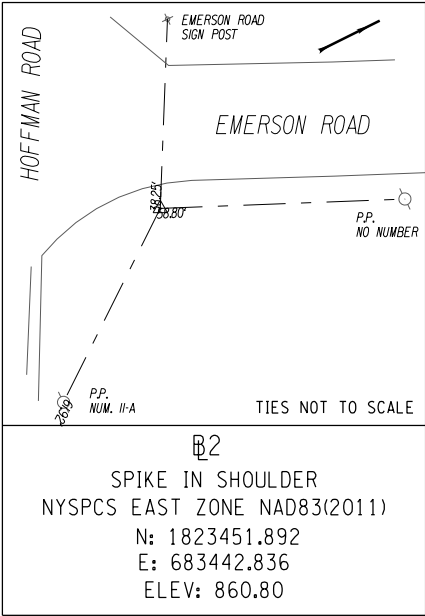
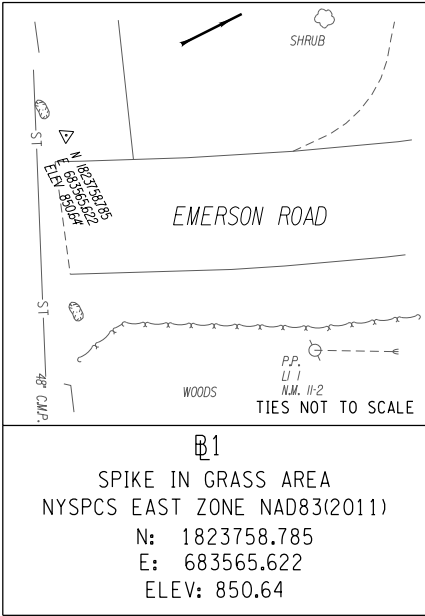
| TABLE OF BENCHMARKS |   |         |        |      |                                    |           |
|---------------------|---|---------|--------|------|------------------------------------|-----------|
| NO.                 | B | STATION | OFFSET | SIDE | DESCRIPTION                        | ELEVATION |
| BM 1                |   | 1+22.15 | 21.39' | RT   | RAILROAD SPIKE FOUND IN POWER POLE | 853.88    |
| BM 2                |   | 3+24.88 | 18.15' | RT   | RAILROAD SPIKE FOUND IN POWER POLE | 851.21    |

NOTES:

1. THE BASELINE INFORMATION TO BE PROVIDED IN DIGITAL FORMAT AS SUPPLEMENTAL INFORMATION TO THE CONTRACTOR.
2. VERTICAL DATUM BASED ON NAVD88 (CORS DERIVED).

| TABLE OF GUIDE RAIL |        |      |                     |                              |                         |                     |
|---------------------|--------|------|---------------------|------------------------------|-------------------------|---------------------|
| STATION             |        | SIDE | ITEM 568.50<br>(LF) | ITEM 568.70<br>(LF) <RADIUS> | ITEM 606.120101<br>(EA) | ITEM 646.22<br>(EA) |
| FROM                | TO     |      |                     |                              |                         |                     |
| 2+34.9              | 2+42.0 | LT   |                     |                              | 1                       |                     |
| 2+42.0              | 2+60.8 | LT   |                     | 19<88>                       |                         | 2                   |
| 2+60.8              | 2+73.8 | LT   |                     | 13                           |                         |                     |
| 2+73.8              | 2+95.8 | LT   | 22.00               |                              |                         |                     |
| 2+95.8              | 2+97.8 | LT   |                     | 2                            |                         |                     |
| 2+97.8              | 3+18.1 | LT   |                     | 20<75>                       |                         |                     |
| 3+18.1              | 3+27.6 | LT   |                     | 10<25>                       |                         | 1                   |
| 3+27.6              | 3+33.9 | LT   |                     |                              | 1                       |                     |
| 2+34.9              | 2+42.0 | RT   |                     |                              | 1                       |                     |
| 2+42.0              | 2+60.8 | RT   |                     | 19<88>                       |                         | 2                   |
| 2+60.8              | 2+73.8 | RT   |                     | 13                           |                         |                     |
| 2+73.8              | 2+95.8 | RT   | 22.00               |                              |                         |                     |
| 2+95.8              | 3+05.6 | RT   |                     | 10                           |                         |                     |
| 3+05.6              | 3+26.1 | RT   |                     | 22<50>                       |                         |                     |
| 3+26.1              | 3+32.0 | RT   |                     |                              | 1                       | 1                   |
| TOTAL               |        |      | 44                  | 128                          | 4                       | 6                   |

| TABLE OF GUIDE RAIL ITEMS AND DESCRIPTIONS |   |       |
|--|---|-------|
| ITEM                                       | DESCRIPTION   | UNITS |
| 568.50                                     | STEEL BRIDGE RAILING (TWO RAIL)                                       | EA    |
| 568.70                                     | TRANSITION BRIDGE RAILING   | LF    |
| 606.120101                                 | BOX BEAM END PIECE  | LF    |
| 646.22                                     | DELNEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS | LF    |



| ESTIMATE OF QUANTITIES |  |      |                    |                |
|------------------------|--|------|--------------------|----------------|
| ITEM NUMBER            | DESCRIPTION  | UNIT | ESTIMATED QUANTITY | FINAL QUANTITY |
| 201.06                 | CLEARING AND GRUBBING  | LS   | 1                  |                |
| 203.01920007           | WETLAND RESTORATION  | CY   | 2                  |                |
| 203.02                 | UNCLASSIFIED EXCAVATION AND DISPOSAL                                   | CY   | 58                 |                |
| 203.03                 | EMBANKMENT IN PLACE  | CY   | 210                |                |
| 203.21                 | SELECT STRUCTURE FILL  | CY   | 74                 |                |
| 203.24010017           | SHOULDER BACKUP MATERIAL   | TON  | 4                  |                |
| 206.01                 | STRUCTURE EXCAVATION   | CY   | 861                |                |
| 206.0201               | TRENCH AND CULVERT EXCAVATION  | CY   | 59                 |                |
| 207.20                 | GEOTEXTILE BEDDING   | SY   | 87                 |                |
| 207.26                 | PREFABRICATED COMPOSITE STRUCTURAL DRAIN                               | SY   | 69                 |                |
| 209.13                 | SILT FENCE-TEMPORARY   | LF   | 132                |                |
| 304.12                 | SUBBASE COURSE, TYPE 2   | CY   | 40                 |                |
| 404.018901             | TRUING & LEVELING F9, WMA, 80 SERIES COMPACTION                        | TON  | 13                 |                |
| 404.128301             | 12.5 F3 TOP COURSE WMA, 80 SERIES COMPACTION                           | TON  | 17                 |                |
| 404.198901             | 19 F9 BINDER COURSE WMA, 80 SERIES COMPACTION                          | TON  | 30                 |                |
| 407.0102               | DILUTED TACK COAT  | GAL  | 10                 |                |
| 553.030001             | TEMPORARY WATERWAY DIVERSION STRUCTURE                                 | EACH | 1                  |                |
| 568.50                 | STEEL BRIDGE RAILING (TWO RAIL)  | LF   | 44                 |                |
| 568.70                 | TRANSITION BRIDGE RAILING  | LF   | 128                |                |
| 595.50000018           | SHEET-APPLIED WATERPROOFING MEMBRANE                                   | SF   | 554                |                |
| 603.63200715           | PRECAST CONCRETE BOX CULVERT (FILL HEIGHT LESS THAN 24 IN)             | LF   | 29                 |                |
| 606.120101             | BOX BEAM END PIECE   | EACH | 4                  |                |
| 610.16010020           | TURF ESTABLISHMENT - PERFORMANCE                                       | SY   | 50                 |                |
| 613.04000001           | STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS                  | CY   | 53                 |                |
| 615.01010108           | MATERIAL FOR STREAM BED ESTABLISHMENT                                  | CY   | 14                 |                |
| 619.01                 | BASIC WORK ZONE TRAFFIC CONTROL  | LS   | 1                  |                |
| 620.03                 | STONE FILLING (LIGHT)  | CY   | 5                  |                |
| 620.05                 | STONE FILLING (HEAVY)  | CY   | 91                 |                |
| 620.0801               | BEDDING MATERIAL, TYPE 1   | CY   | 11                 |                |
| 623.12                 | CRUSHED STONE (IN-PLACE MEASURE)                                       | CY   | 36                 |                |
| 625.01                 | SURVEY OPERATIONS  | LS   | 1                  |                |
| 627.50140008           | CUTTING PAVEMENT   | LF   | 42                 |                |
| 646.22                 | DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS | EACH | 6                  |                |
| 646.32                 | STEEL POST, 2.0 LB/FT  | EACH | 4                  |                |
| 697.03                 | FIELD CHANGE PAYMENT   | DC   | 14000              |                |
| 699.040001             | MOBILIZATION   | LS   | 1                  |                |



EMERSON CULVERT  
CULVERT REPLACEMENT  
TOWN OF SCHROON  
ESSEX COUNTY, NY

ESSEX COUNTY  
DEPARTMENT OF PUBLIC WORKS  
8053 US ROUTE 9  
ELIZABETHTOWN, NY 12932

NO.

BY

DATE

REVISION

DATE: APRIL 2023

CM No.: 120-098

SCALE: AS NOTED

MISCELLANEOUS TABLES - LOA 7

DESIGNED: J.O.

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CHECKED: L.A.S.

ST7-4

SHEET NUMBER 29 of 30

