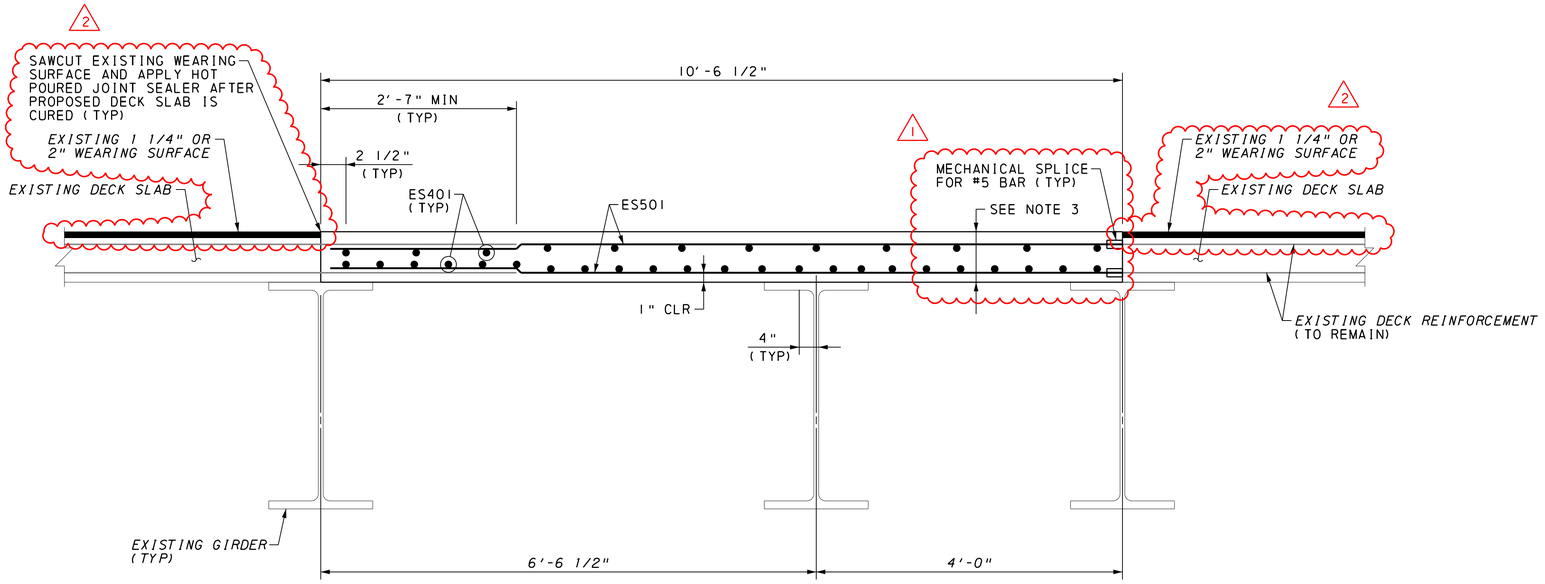
CONTRACT NO. T-668A

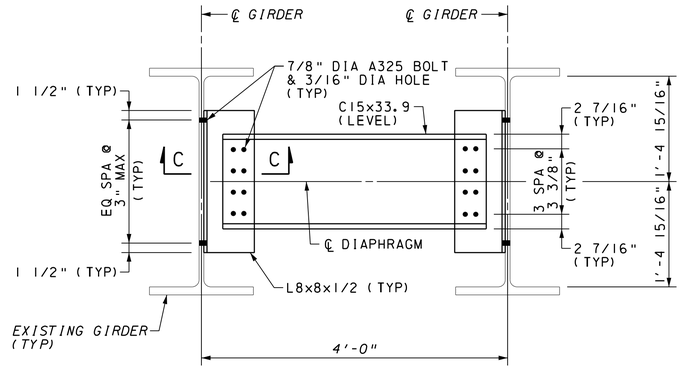
ADDENDUM NO. 7

PACKAGE A, PART 5 REVISED PLAN SHEETS




SECTION A-A

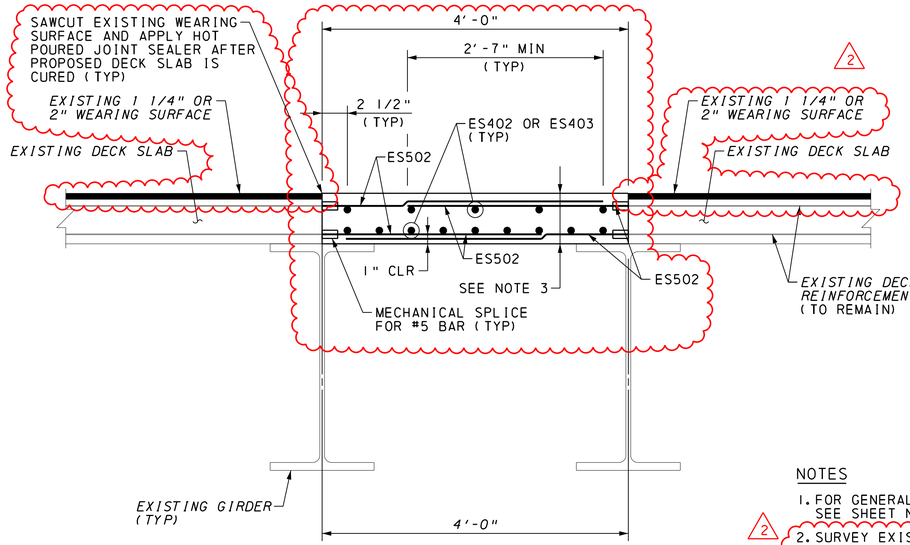
1' 0 1'




TEMPORARY MEDIAN DIAPHRAGM DETAILS

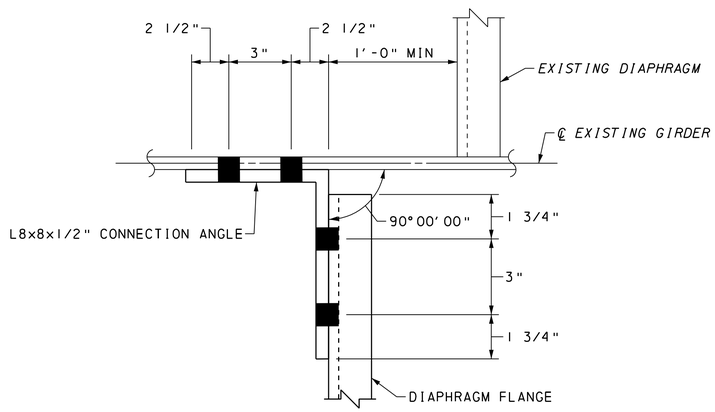
1' 0 1'

| TEMPORARY DECK SLAB REINFORCEMENT BAR SCHEDULE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | SIZE | TYPE | LENGTH | NUMBER | A | B | C | D | E | REMARKS |
| ES401 | 4 | STR | 30'-3" | 35 | | | | | | |
| ES402 | 4 | STR | 28'-3 3/4" | 42 | | | | | | |
| ES403 | 4 | STR | 24'-3" | 14 | | | | | | |
| | | | | | | | | | | |
| ES501 | 5 | STR | 10'-3 1/2" | 122 | | | | | | MECHANICAL SPLICE |
| ES502 | 5 | STR | 3'-9" | 844 | | | | | | MECHANICAL SPLICE |




SECTION B-B

1' 0 1'




SECTION C-C

NOT TO SCALE

NOTES

1. FOR GENERAL NOTES AND LIST OF ABBREVIATIONS, SEE SHEET NO'S 2 & 3.
2. 2. SURVEY EXISTING ROADWAY SURFACE AT ONE-TENTH POINTS ALONG GIRDERS WHERE SLAB IS TO BE REPLACED AND MATCH TEMPORARY SLAB TO THESE ELEVATIONS.
2. 3. PROVIDE TEMPORARY SLAB THICKNESS EQUAL TO EXISTING DECK SLAB THICKNESS, PLUS THE THICKNESS OF EXISTING WEARING SURFACES.
2. 4. FOR LOCATION OF SECTIONS A-A AND B-B, SEE SHEET NO 47.
2. 5. "E" PREFIX IN BAR MARKS INDICATE EPOXY-COATED BARS.
2. 6. MATERIALS AND WORK PERFORMED TO CONSTRUCT DETAILS ON THIS SHEET ARE TO BE PAID AS PART OF "9018-0052 REMOVAL OF EXISTING BRIDGE, S-3541/S13056".

| Mark | Description | By | Chk'd. | Recm'd | Date |
|---|---|---|---|---|---|
| REVISIONS | | | | | |
| 2 | ADDENDUM NO. 7 | CMP | GK | | 11/18/16 |
| 1 | ADDENDUM NO. 4 | CMP | GK | | 11/4/16 |

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

SCUDDER FALLS BRIDGE
REPLACEMENT PROJECT CONTRACT T-668A
SR 0095, STA 248+29.92
OVER TAYLORSVILLE ROAD
1 SPAN INTEGRAL ABUTMENT STEEL GIRDER BRIDGE
TEMPORARY DECK SLAB DETAILS 2

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — WILLIAM C. BROOKS — ENGINEER — PE039765E

RECOMMENDED _____

SHEET 48 OF 62

S- 36222

DESIGNED: CMP | CADD: JCD | CHECKED: GK

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| REVISION NUMBER | REVISIONS | CKD. | BY | DATE |
|---|---|---|---|---|
| 1 | ADDENDUM NO. 7 | CMP | KJW | 11/18/16 |
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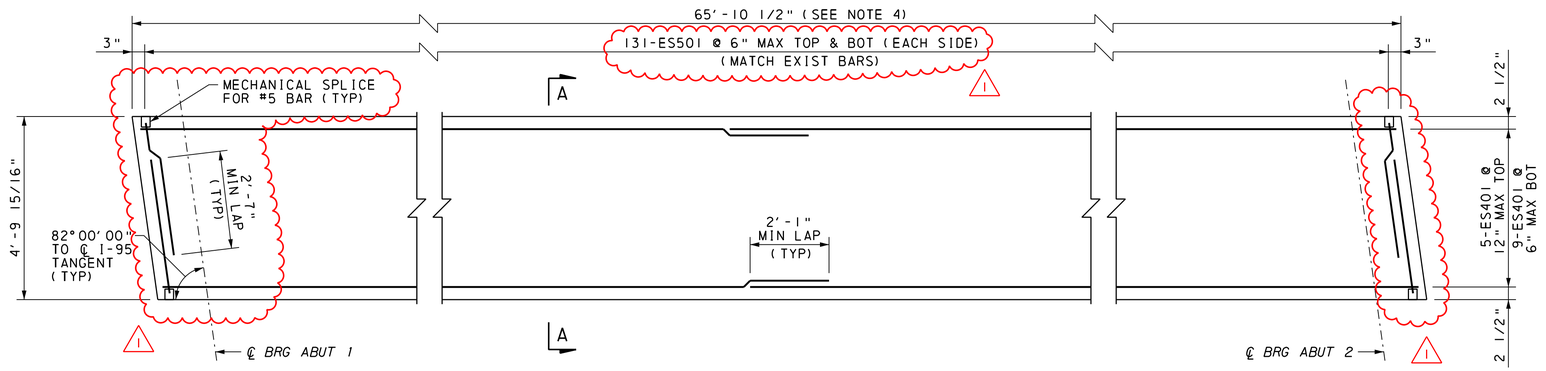
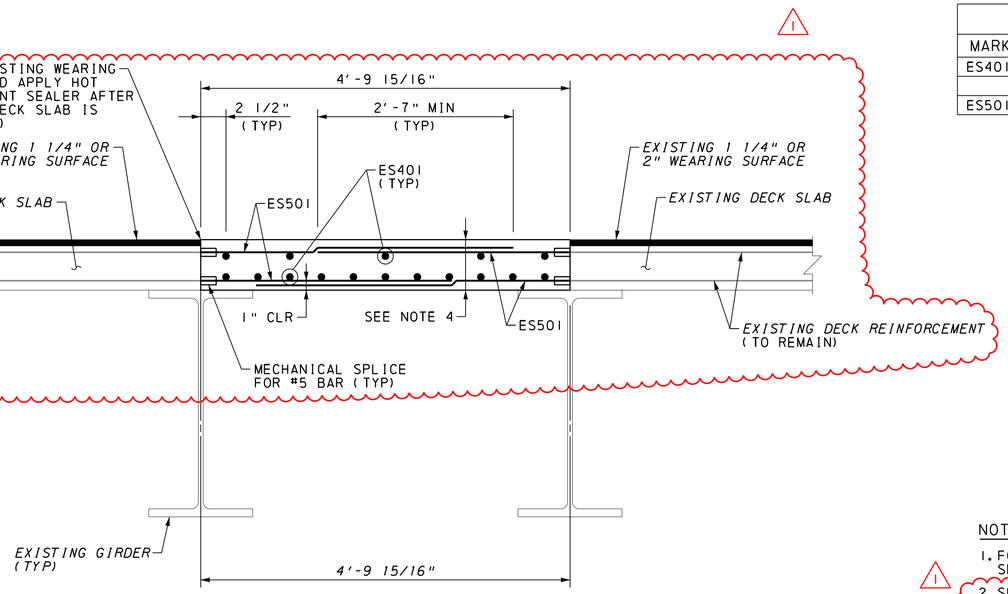



TEMPORARY SLAB PLAN
(CONSTRUCT DURING STAGE 1A-1)
2' 1' 0 2'




SECTION A-A
1' 0 1'

TEMPORARY DECK SLAB REINFORCEMENT BAR SCHEDULE

| MARK | SIZE | TYPE | LENGTH | NUMBER | A | B | C | D | E | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| ES401 | 4 | STR | 32'-9 1/4" | 28 | | | | | | |
| | | | | | | | | | | |
| ES501 | 5 | STR | 3'-8 1/2" | 524 | | | | | | MECHANICAL SPLICE |

NOTES

1. FOR GENERAL NOTES AND LIST OF ABBREVIATIONS, SEE SHEET NO'S 2 & 3.
2. SURVEY EXISTING ROADWAY SURFACE AT ONE-TENTH POINTS ALONG GIRDERS WHERE SLAB IS TO BE REPLACED AND MATCH TEMPORARY SLAB TO THESE ELEVATIONS.
3. DIMENSIONS GIVEN ARE APPROXIMATE AND SHOULD BE VERIFIED IN FIELD. REINFORCEMENT BARS DETAILING LENGTHS TO BE MODIFIED AS REQUIRED.
4. PROVIDE TEMPORARY SLAB THICKNESS EQUAL TO EXISTING DECK SLAB THICKNESS, PLUS THE THICKNESS OF EXISTING WEARING SURFACE.
5. "E" PREFIX IN BAR MARKS INDICATE EPOXY-COATED BARS.
6. COST OF TEMPORARY DECK SLAB IS INCIDENTAL TO COST OF REMOVAL OF EXISTING BRIDGE, S-3542/S13057 (S-36221).
7. FOR LOCATION AND DETAILS OF TEMPORARY DIAPHRAGM, SEE SHEET NO'S 7 & 8.

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
WILLIAM C. BROOKS
ENGINEER
PE039765E

DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION

SCUDDER FALLS BRIDGE REPLACEMENT PROJECT
CONTRACT NO. T - 668A
S-36221 (PA CANAL BRIDGE)

TEMPORARY DECK SLAB DETAILS

DRAWN BY JCD ENGINEER KJW STRUCTURE NO. S-36221
IN CHARGE RDS FILE
DATE 06-03-2016 SCALE SHEET NO. 51 OF 62

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| REVISION NUMBER | REVISIONS | CKD. | BY | DATE |
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| 1 | ADDENDUM NO. 7 | WCP | AAD | 11/18/16 |
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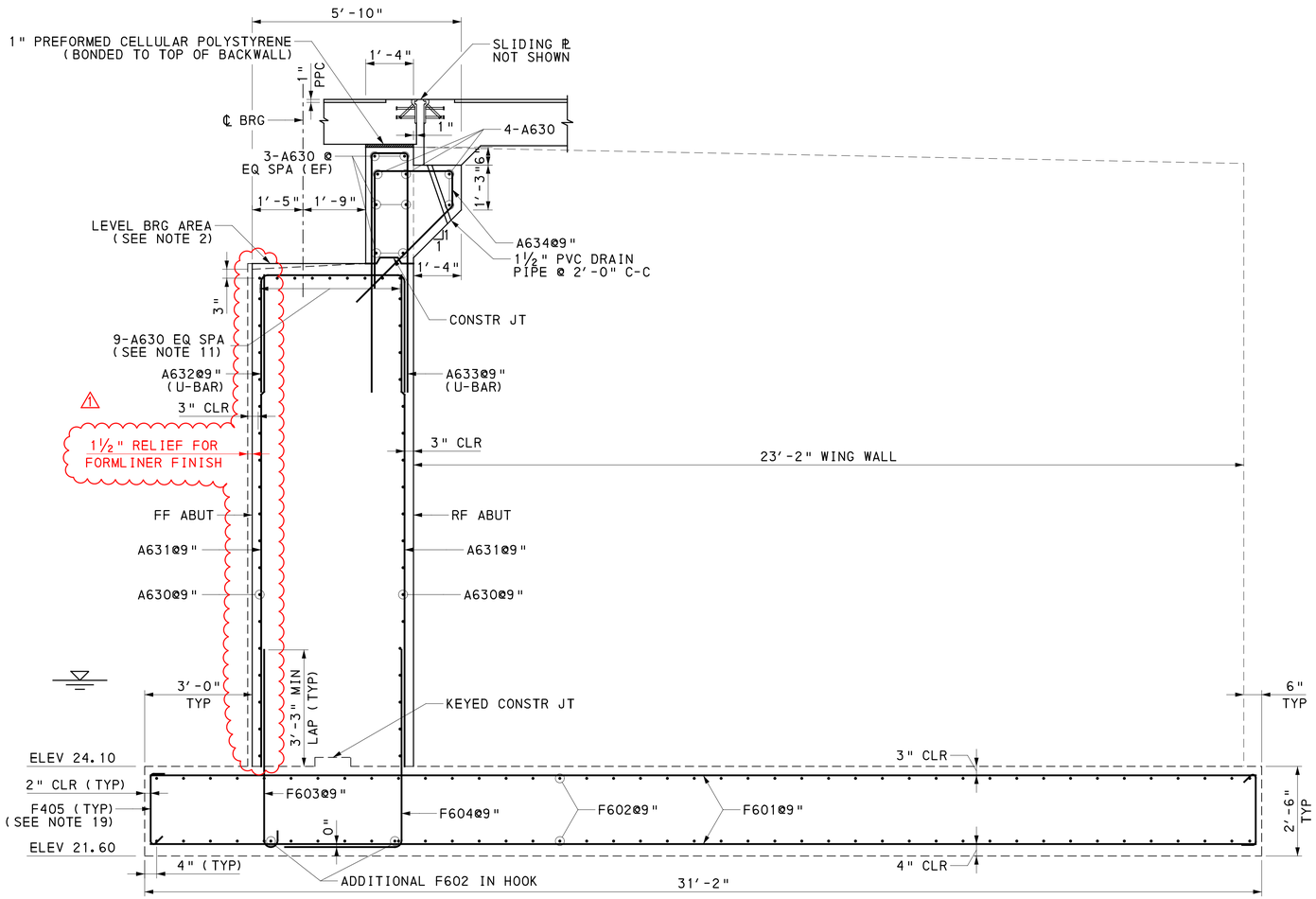
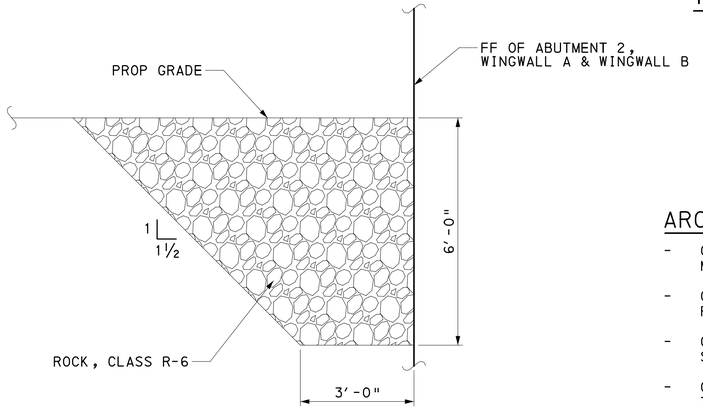



## TYPICAL SECTION

0 6 1′ 2′ 3′ 4′




## ROCK SCOUR PROTECTION DETAIL

N. T. S.

## ARCHITECTURAL FINISH (ABUTMENT 2 AND WINGWALLS A & B)

- CAST-IN-PLACE WALL SHALL HAVE A GEORGETOWN ASHLAR STONE FINISH WITH 1.5" MAXIMUM DEPTH.
- CAST-IN-PLACE WALL SHALL BE CAST WITH PIGMENT IN THE CONCRETE MATCHING FEDERAL STANDARD COLOR NUMBER 36463.
- CAST-IN-PLACE WALL SHALL BE COATED WITH PENETRATING ARCHITECTURAL CONCRETE STAIN PIGMENTED TO FEDERAL COLOR NUMBER 36463.
- CAST-IN-PLACE WALL SHALL BE COATED FOR THEIR FULL HEIGHT AND WIDTH INCLUDING THE BELOW GROUND PORTION OF THE WALLS.
- THE COST OF THE SURFACE TEXTURE AND COLOR IS INCIDENTAL TO THE COST OF THE RETAINING WALL.

## ABUTMENT NOTES

1. AT ABUTMENT 2, PROVIDE A SPREAD FOOTING. SEE TABLE FOR FOUNDATION DESIGN PARAMETERS.
2. BRIDGE SEATS SHALL NOT BE POURED UNTIL THE BEARING WORKING DRAWINGS HAVE BEEN APPROVED BY THE ENGINEER.
3. CONTRACTOR TO ADJUST TOP BAR SPACING TO AVOID ANCHOR BOLT SLEEVES.
4. CONTRACTOR SHALL NOT ALLOW WATER TO COLLECT IN THE ANCHOR OR SLEEVE HOLES AT ANY TIME.
5. PERFORM EXCAVATIONS IN ACCORDANCE WITH PENNDOT SPECIFICATIONS AND OSHA REQUIREMENTS.
6. FOUNDATION EXCAVATION SHOULD BE INSPECTED BY A QUALIFIED ENGINEER TO VERIFY THAT THE BEARING SOILS ARE IN CONFORMANCE WITH THAT SHOWN ON THE BORING LOGS. ANY SOFT, LOOSE OR UNSUITABLE MATERIAL ENCOUNTERED AT THE FOOTING ELEVATION SHALL BE REMOVED AND REPLACED WITH CLASS C CONCRETE AS DEFINED IN SECTION 704 OF PENNDOT PUBLICATION 408.
7. BASED ON THE APPLICABLE BORING, GROUNDWATER LEVEL MAY BE HIGHER THAN THE BOTTOM OF THE FOOTING. GROUNDWATER FLOW MAY ENTER THE FOUNDATION EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT DEWATERING SO THAT THE BOTTOM OF EXCAVATION IS DRY ENOUGH FOR THE INSPECTION AND CONCRETE WORK.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATED SLOPES. BORING DATA INDICATES VERY DENSE GRAVELLY SOIL UNDERNEATH THE BOTTOM OF THE SPREAD FOOTING AND BEDROCK LIES WITHIN SIX FEET BELOW THE BOTTOM OF THE SPREAD FOOTING. IF A TEMPORARY SUPPORT IS CHOSEN, THE CONTRACTOR IS ADVISED TO EVALUATE BORING INFORMATION AND PROVIDE APPROPRIATE SHORING SYSTEM FOR FOOTING CONSTRUCTION. INSTALLING CONVENTIONAL SHEET PILES TO THE FOUNDATION LEVEL AND BELOW FOR EXCAVATION MAY BE DIFFICULT.
9. IF TEMPORARY SUPPORT IS USED, THE FOLLOWING PARAMETERS ARE RECOMMENDED FOR DESIGN OF SHORING AND BRACING, ASSUMING HORIZONTAL SLOPES BEHIND AND IN FRONT OF THE SHORING SYSTEM.
   INTERNAL FRICTION ANGLE, : = 32°
   MOIST UNIT WEIGHT: 120 PCF
   SATURATED UNIT WEIGHT: 125 PCF
   EFFECTIVE COHESION: 0 PSF
   STATIC GROUNDWATER ELEVATION: 26.5 FT
10. PLACE CLASS R-6 ROCK RIPRAP FOR SCOUR PROTECTION AS SHOWN ON THE PLANS.
11. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH #4 TIE BARS AT A MAXIMUM SPACING OF 4′-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOKS AT TOP IN ALTERNATE TIES.
12. THE COST OF THE 6" DIA PVC PERFORATED DRAINAGE PIPES SHALL BE INCLUDED IN THE COST OF ABUTMENT 2 CLASS AA CONCRETE.

### FOUNDATION DESIGN PARAMETERS (ABUTMENT 2 AND WINGWALLS)

| | |
|---|---|
| FOUNDATION TYPE | SPREAD FOOTING |
| APPLICABLE BORINGS | PD-25 |
| PROPOSED BOTTOM OF FOOTING ELEVATION (FT) | EL ±22 |
| BEARING STRATUM | GRAVEL (SAPROLITE - WEATHER SILTSTONE) |
| SPT-N (BLOWS/FT) | >60 |
| RECOVERY (REC) % | 80 |
| MOIST UNIT WEIGHT OF SOIL (PCF) | 125 |
| SATURATED UNIT WEIGHT OF SOIL (PCF) | 130 |
| EFFECTIVE UNIT WEIGHT OF SOIL (PCF) | 67.6 |
| EFFECTIVE SOIL COHESION C (PSF) | 0 |
| EFFECTIVE SOIL INTERNAL FRICTION ANGLE (°) | 36 |
| ELASTIC MODULUS OF FOUNDATION SOIL (KSF) | 2,000 |
| ANTICIPATED SETTLEMENT (INCH) | <<1.0 |
| NOMINAL BEARING RESISTANCE, STR-I (KSF) | 21.5 |
| FACTORED BEARING RESISTANCE, STR-I (KSF) | 9.7 |
| BEARING RESISTANCE FACTOR | 0.45 |
| SLIDING RESISTANCE FACTOR | 0.80 |
| FRICTION ANGLE BETWEEN FOOTING AND FOUDNATION SOIL (°) | 29 |
| GROUNDWATER ELEVATION (EL IN FEET) | 26.5 |
| POISSON'S RATIO | 0.3 |


French & Parrello Associates
1800 Route 34
Suite 101
Wall, NJ 07719

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — WILLIAM C. PYONTEK — ENGINEER PE042746

REG. PROF. ENGINEER

DATE

Michael Baker International
300 American Metro Blvd. Ste. 154
Hamilton, NJ 08619

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MAHER A. SIDANI — ENGINEER PE039811

REG. PROF. ENGINEER

DATE


DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION

SCUDDER FALLS BRIDGE REPLACEMENT PROJECT
CONTRACT NO. T - 668A

PENNSYLVANIA BICYCLE AND PEDESTRIAN PATH

ABUTMENT 2 - SECTION AND ABUTMENT NOTES

| | | | |
|---|---|---|---|
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## GENERAL NOTES:

1. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2016 (INCLUDING SUPPLEMENTS), AASHTO/AWS/D1.5 BRIDGE WELDING CODE 2008, (USE AASHTO/AWS/D1.1-2008 FOR WELDING NOT COVERED IN AASHTO/AWS/D1.5-2008), AND CONTRACT SPECIAL PROVISIONS.

2. DESIGN SPECIFICATIONS:

   AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2015, AND AS SUPPLEMENTED BY PENNDOT DESIGN MANUAL, PART 4, APRIL 2015 (INCLUDING LATEST REVISIONS).

3. DESIGN LOADS: LIVE LOAD SURCHARGE SHALL BE IN ACCORDANCE WITH DESIGN MANUAL PART 4, SECTION 3.11.6.

4. DESIGN IS IN ACCORDANCE WITH THE LRFD METHODOLOGY. ALL ALTERNATE DESIGNS SHALL BE IN ACCORDANCE WITH LRFD METHODOLOGY.

## GENERAL:

1. PROVIDE 2 INCH CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.

2. USE CLASS AA (3,500 PSI) CEMENT CONCRETE IN CAST IN PLACE BARRIERS AND MOMENT SLABS.

3. USE CLASS A (3,000 PSI) CEMENT CONCRETE IN LEVELING PADS AND STEP DETAILS.

4. PROVIDE CONCRETE FOR CASTING THE T-WALL UNITS AND SHEAR KEYS WITH A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.

5. USE CLASS C CEMENT CONCRETE BELOW THE BOTTOM OF FOOTING WHEN SPECIFIED.

6. A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE COMMISSION.

7. PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM-A 615/A615M, A 996/A996M OR A706/A706M. DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. DO NOT USE RAIL STEEL A996/A996M REINFORCEMENT BARS IN RETAINING WALLS, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BAR IS INDICATED.

8. EPOXY COAT ALL REINFORCING BARS IN THE MOMENT SLAB, BARRIER AND COPING.

9. EPOXY COAT ALL REINFORCING BARS IN PRECAST UNITS THAT EXTEND OUTSIDE OF THE PRECAST UNITS.

10. GALVANIZED REINFORCING STEEL MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING BARS AT NO ADDITIONAL COST TO THE COMMISSION.

11. RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.

12. PROVIDE NON-SHRINK GROUT IN ACCORDANCE WITH PUBLICATION 408, SECTION 1086.

13. CHAMFER EXPOSED CONCRETE EDGES ¾" BY ¾", EXCEPT AS NOTED.

14. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.

15. DIMENSIONS SHOWN ARE FOR NORMAL TEMPERATURE OF 68 DEGRESS F.

16. STATIONS, OFFSETS AND ELEVATIONS ARE IN FEET. ALL OTHER DIMENSIONS ARE IN FEET AND INCHES.

17. PROVIDE MINIMUM LAP AND EMBEDMENT LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.

18. PROVIDE PROTECTIVE COATING ON TOP SURFACE OF MOMENT SLAB AND EXPOSED FACES OF BARRIER PER PUBLICATION 408, SECTION 503.

19. THE FABRICATOR IS TO SUBMIT COMPLETE QUALITY ASSURANCE FORMS, D-516 WITH ALL PLAN SUBMISSIONS.

## UTILITY NOTES:

1. COORDINATE, LOCATE AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408/2016, SECTIONS 105.06 AND 107.12.

2. VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK, AND CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED, AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. THE COMMISSION DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AND/OR REVISIONS, OR LIABILITY FOR ACCURACY OF TYPE, SIZE AND LOCATION OF ANY UTILITY.

## GENERAL CONSTRUCTION:

1. CONSTRUCTION ACTIVITY WILL NOT BE ALLOWED OUTSIDE THE RIGHT-OF-WAY.

## NOTES FOR STEEL:

1. WELDING OF REINFORCEMENT BARS DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.

2. GALVANIZE ALL HARDWARE AND STRUCTURAL STEEL IN ACCORDANCE WITH PUBLICATION 408, SECTION 1105.02 (S), INCLUDING THE ANCHOR BOLTS.

## FOUNDATION NOTES:

1. MODULAR RETAINING (T-WALL) WALL IS RECOMMENDED AT THIS LOCATION. SUBMIT THE SHOP DRAWING FOR APPROVAL. NO ALTERNATE WALL TYPES WILL BE PERMITTED AT THIS LOCATION. (1)

2. COORDINATE THE WALL CONSTRUCTION WITH THE CONSTRUCTION OF ADJACENT DRAINAGE PIPES.

3. MINIMUM LEVELING PAD THICKNESS IS 6". INCREASE THE THICKNESS OF THE LEVELING PAD TO ACCOMMODATE LOCAL CHANGE IN BEDROCK ELEVATIONS.

4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT DEWATERING OF EXCAVATED AREAS FOR INSPECTION AND CONSTRUCTION.

5. PERFORM FINAL DESIGN OF THE T-WALL TO INCORPORATE 3 FT. OF HYDROSTATIC PRESSURE ABOVE THE TOP OF LEVELING PAD ELEVATION.

6. MAXIMUM ALLOWABLE SETTLEMENT IS ONE (1) INCH.

## T-WALL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE WALL IS COMPATIBLE WITH THE HORIZONTAL ALIGNMENT AND VERTICAL PROFILE DATA INDICATED ON THE DRAWINGS. THE WALL IS REQUIRED TO COMPLY WITH ALL INDICATED DIMENSIONS AND TO ACCOMMODATE ALL OTHER PROJECT FEATURES SHOWN ON THE DRAWINGS.

2. DESIGN AND CONSTRUCT T-WALL IN ACCORDANCE WITH PENNDOT RECOMMENDED STANDARD PREFABRICATED T-WALL RETAINING WALL SYSTEM PA DOT DWG# 87-402 PE.

3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATED SLOPES AND THE DESIGN OF ANY TEMPORARY SHORING AND BRACING THAT MAY BE USED. DIRECT SURFACE RUNOFF AWAY FROM THE EXCAVATION. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS.

4. ROCK EXCAVATION MAY BE NECESSARY FOR THE MODULAR WALL/DRAINAGE PIPE INSTALLATION. THE COMPRESSIVE STRENGTH OF THE ROCK MIGHT BE VERY HIGH. REFER TO THE PROJECT GEOTECHNICAL REPORT AND BORING LOGS FOR DETAILS. THE CONTRACTOR IS ADVISED TO HAVE APPROPRIATE ROCK EXCAVATION EQUIPMENT.

5. BLASTING IS NOT PERMITTED FOR ROCK EXCAVATION. EXCAVATE TO THE PLANNED ELEVATION USING MECHANICAL EQUIPMENT, MAKING ALL EXCAVATIONS IN THE BEDROCK NEAT. PLACE THE FOOTING CONCRETE AGAINST THE EXCAVATED (NEAT CUT) VERTICAL ROCK FACE.

6. FOOTINGS MAY BE ORDERED BY THE ENGINEER TO BE AT ANY ELEVATION OR OF ANY DIMENSION NECESSARY TO PROVIDE A PROPER FOUNDATION.

7. FOOTING ELEVATIONS ARE SHOWN ONLY TO INDICATE POSSIBLE CHANGES IN WALL HEIGHTS. MODIFY ACCORDING TO THE REQUIREMENTS OF THE MANUFACTURER.

8. DO NOT USE HEAVY STATIC OR VIBRATORY COMPACTION EQUIPMENT WITHIN A DISTANCE OF 3FT. BEHIND THE WALL PANELS.

9. REFER TO CONSTRUCTION PLANS AND CROSS SECTIONS FOR INLET AND STORM DRAIN PIPE LOCATIONS AND ELEVATIONS. DESIGN WALL TO ACCOMMODATE.

10. ALL EXCAVATIONS MUST BE INSPECTED BY THE ENGINEER PRIOR TO PLACING THE FOUNDATIONS AND PLACEMENT OF ANY BACKFILL MATERIAL. A MINIMUM OF 48 HOURS NOTICE IS TO BE PROVIDED TO THE ENGINEER.

## T-WALL NOTES (CONTINUED):

1. RETAINING WALL LENGTHS, STATIONS, AND OFFSETS ARE SHOWN IN DESIGN DRAWINGS.

2. USE THE FOLLOWING PARAMETERS AND FACTORS FOR THE DESIGN AND ANALYSIS OF THE T-WALL:

3. FOUNDATION SOIL:
   INTERNAL FRICTION ANGLE: 35 DEGREES
   COHESION: 0 PSF
   IN-SITU SOIL UNIT WEIGHT: 130 PCF
   SATURATED IN-SITU SOIL UNIT WEIGHT: 135 PCF
   MODULUS OF ELASTICITY: 1,000 KSF
   POISSON'S RATIO: 0.25

4. RETAINED SOIL:
   INTERNAL FRICTION ANGLE: 30 DEGREES
   COHESION: 0 PSF
   UNIT WEIGHT: 120 PCF

5. BEARING CAPACITY RESISTANCE FACTOR: 0.45
   SLIDING RESISTANCE FACTOR: 0.90
   NOMINAL BEARING RESISTANCE: 10.6 KSF
   FACTORED BEARING RESISTANCE: 4.8 KSF

| Mark | Description | By | Chk'd. | Recm'd. | Date |
|---|---|---|---|---|---|
| | REVISIONS | | | | |
| 1 | ADDENDUM NO. 7 | MJM | HR | | 11/18/16 |


PREPARED BY:
**IH ENGINEERS, P.C.**
103 COLLEGE ROAD EAST
FIRST FLOOR
PRINCETON, NEW JERSEY 08540

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL THOMAS A FISHER ENGINEER PE029221E

PREPARED BY:
**MICHAEL BAKER INTERNATIONAL**
300 AMERICAN METRO
BLVD. STE. 154
HAMILTON, NEW JERSEY 08619

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MAHER A. SIDANI ENGINEER PE082891


# COMMONWEALTH OF PENNSYLVANIA
## DEPARTMENT OF TRANSPORTATION

## BUCKS COUNTY
## S.R. 0095 SECTION 001
SEG. 0485 OFFSET 1262 TO SEG. 0491 OFFSET 0897
S.R. 0095 STATION 144+66.29 TO
S.R. 0095 STATION 167+68.35
## PA MEDIAN RETAINING WALL
## GENERAL NOTES

RECOMMENDED _____

SHEET 2 OF 53

S-36228

DES. HR | CKD. TAF | DWN. MJM | CKD. HR


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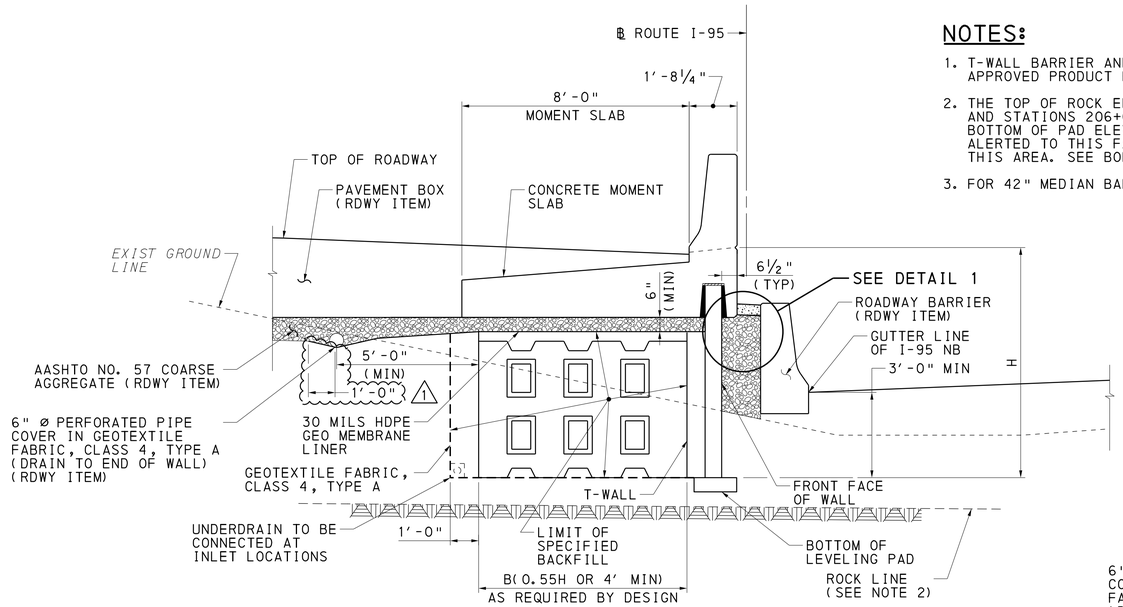


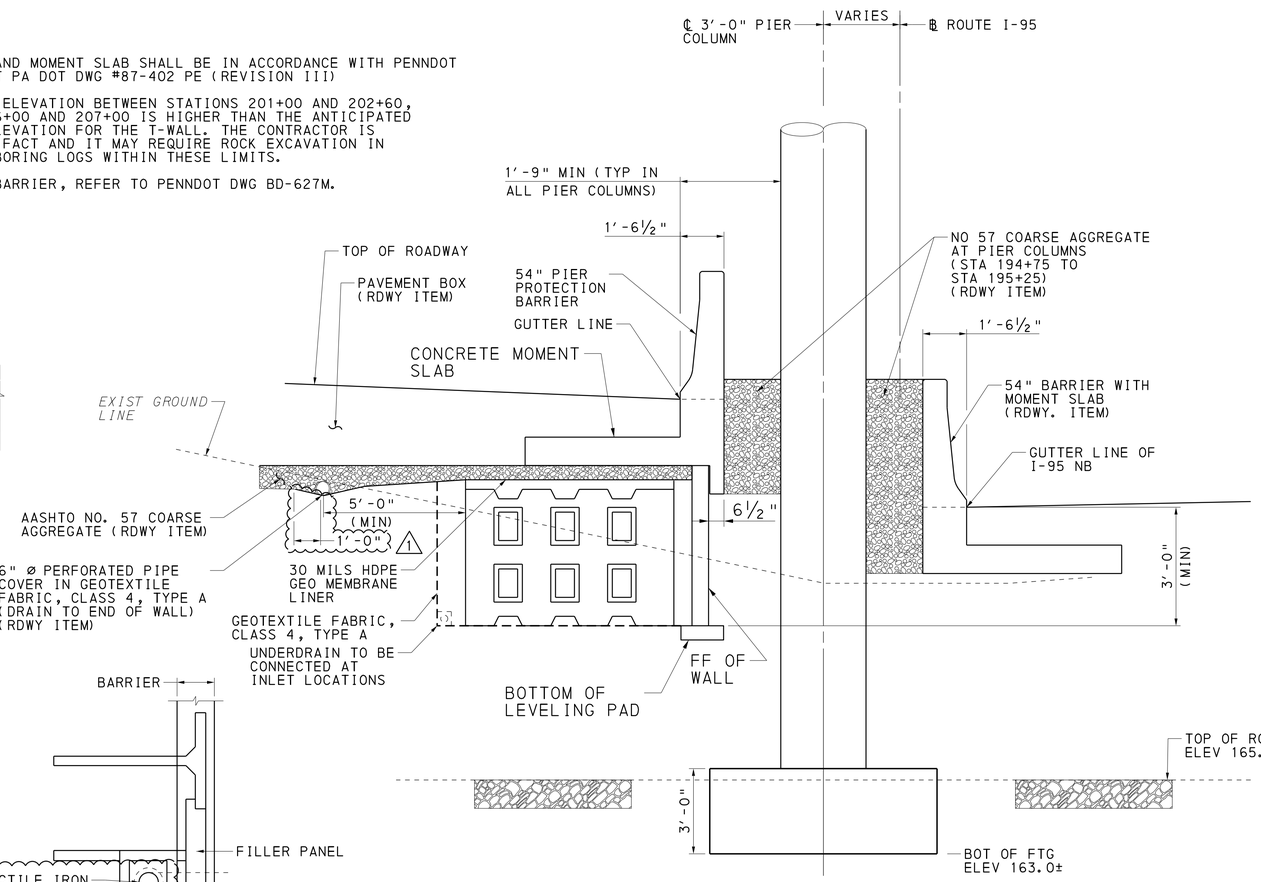

## MEDIAN RETAINING WALL TYPICAL SECTION

STA 183+00 TO STA 193+42 AND STA 196+58 TO 221+00

0 1′ 2′ 3′ 4′

## NOTES:

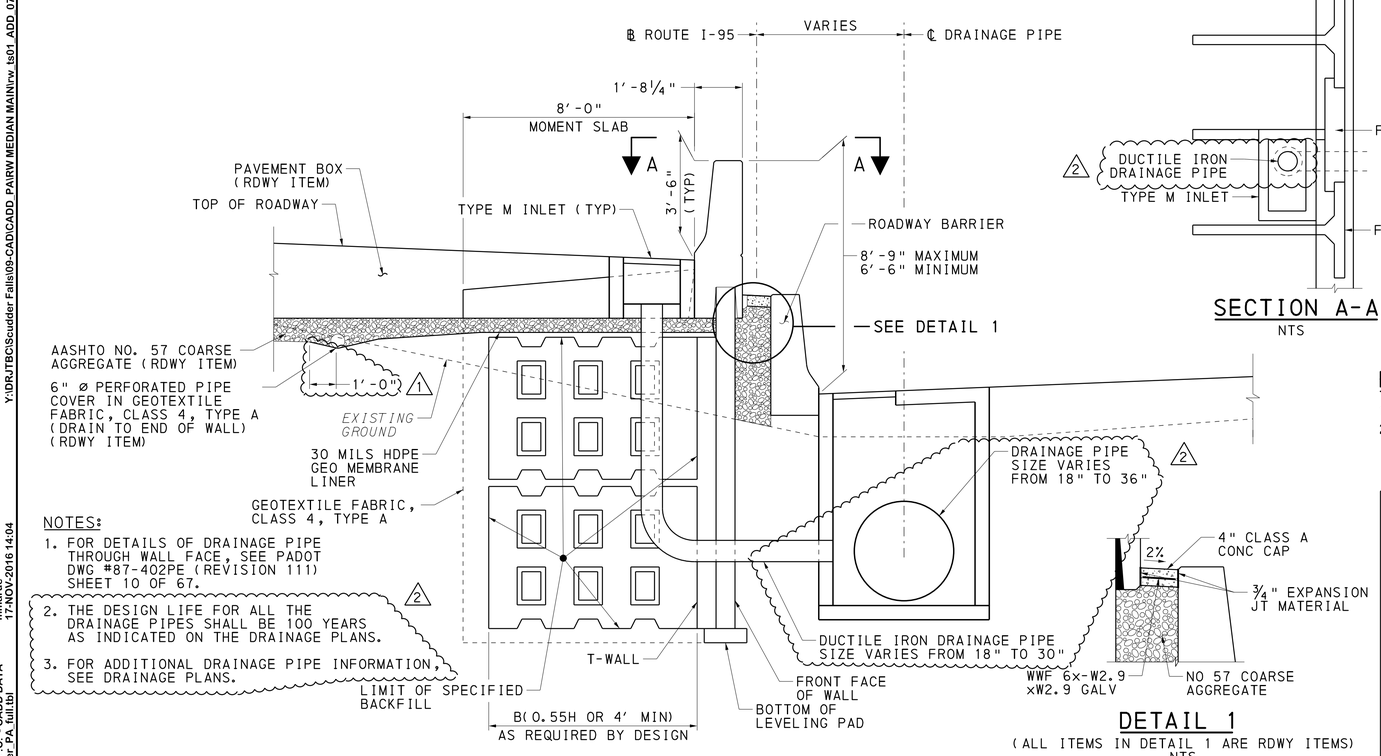
1. T-WALL BARRIER AND MOMENT SLAB SHALL BE IN ACCORDANCE WITH PENNDOT APPROVED PRODUCT PA DOT DWG #87-402 PE (REVISION III)
2. THE TOP OF ROCK ELEVATION BETWEEN STATIONS 201+00 AND 202+60, AND STATIONS 206+00 AND 207+00 IS HIGHER THAN THE ANTICIPATED BOTTOM OF PAD ELEVATION FOR THE T-WALL. THE CONTRACTOR IS ALERTED TO THIS FACT AND IT MAY REQUIRE ROCK EXCAVATION IN THIS AREA. SEE BORING LOGS WITHIN THESE LIMITS.
3. FOR 42" MEDIAN BARRIER, REFER TO PENNDOT DWG BD-627M.




## PIER PROTECTION BARRIER TYPICAL SECTION

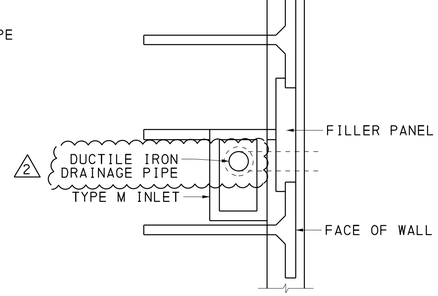
STA 194+62.29 TO STA 196+20.00

0 1′ 2′ 3′ 4′




## MEDIAN RETAINING WALL TYPICAL SECTION @ INLET LOCATIONS

NTS




## SECTION A-A

NTS




## DETAIL 1

(ALL ITEMS IN DETAIL 1 ARE RDWY ITEMS)

NTS

## REFERENCES:

| | | SHEET: |
|---|---|---|
| 1. | GENERAL NOTES | 2 |
| 2. | LIST OF PENNDOT STANDARD DRAWINGS | 1 |

| Mark | Description | By | Chk'd. | Recm'd. | Date |
|---|---|---|---|---|---|
| | REVISIONS | | | | |
| 2 | ADDENDUM NO. 7 | MJM | HR | | 11/18/16 |
| 1 | ADDENDUM NO. 4 | MJM | FY | | 11/4/16 |

PREPARED BY:
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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — THOMAS A FISHER — ENGINEER PE029221E

PREPARED BY:
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HAMILTON, NEW JERSEY 08619
COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MAHER A. SIDANI — ENGINEER PE082891

# COMMONWEALTH OF PENNSYLVANIA
## DEPARTMENT OF TRANSPORTATION

## BUCKS COUNTY
## S.R. 0095 SECTION 001

SEG. 0485 OFFSET 1262 TO SEG. 0491 OFFSET 0897
S.R. 0095 STATION 144+66.29 TO
S.R. 0095 STATION 167+68.35

## PA MEDIAN RETAINING WALL TYICAL SECTIONS

RECOMMENDED _____

SHEET 12 OF 53

S-36228

| DES. HR | CKD. TAF | DWN. MJM | CKD. HR |
|---|---|---|---|

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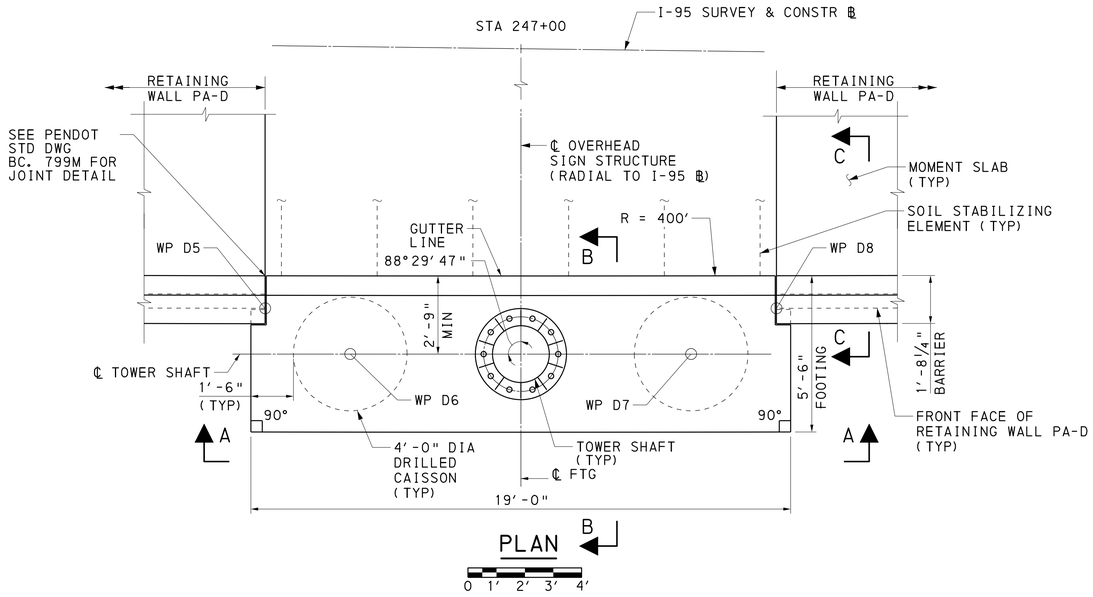
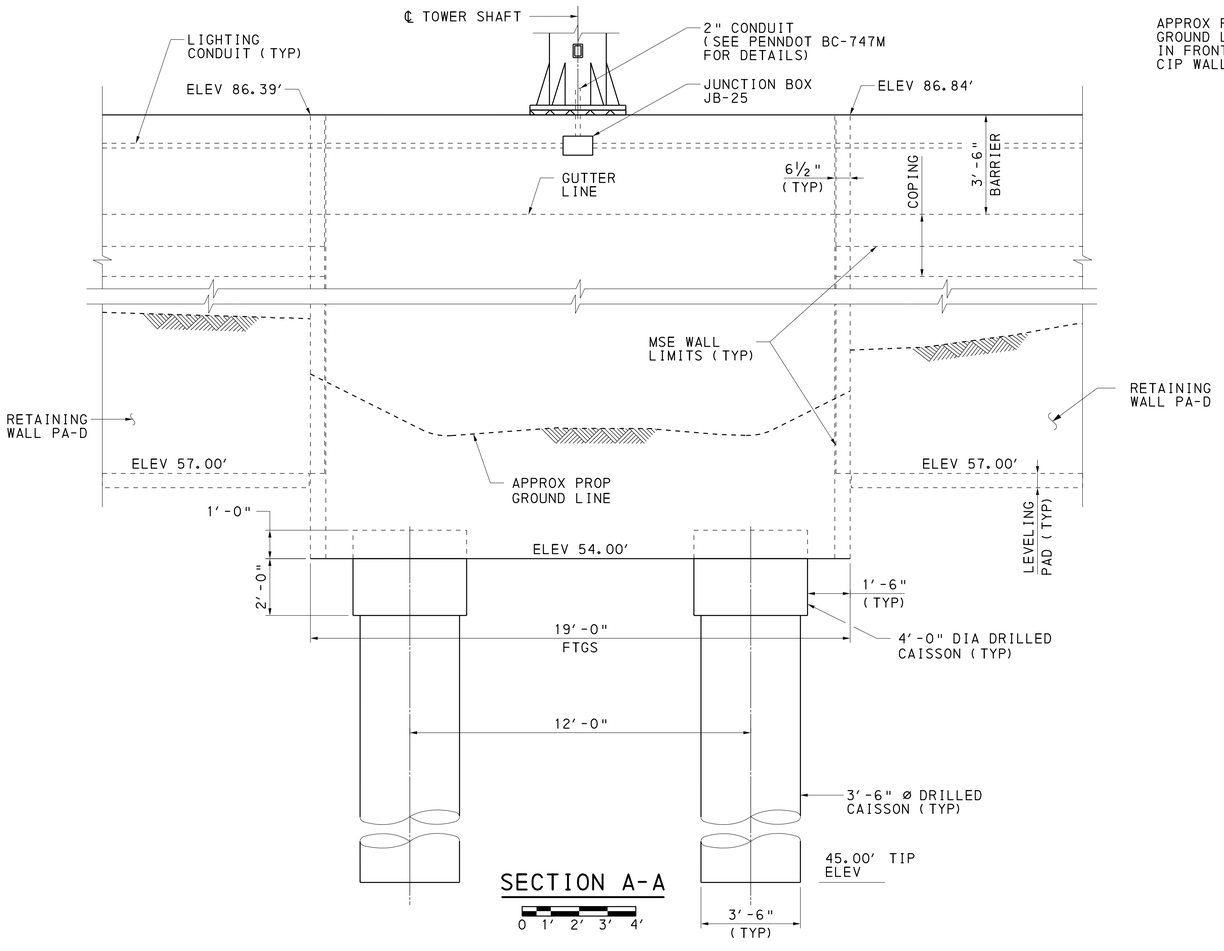


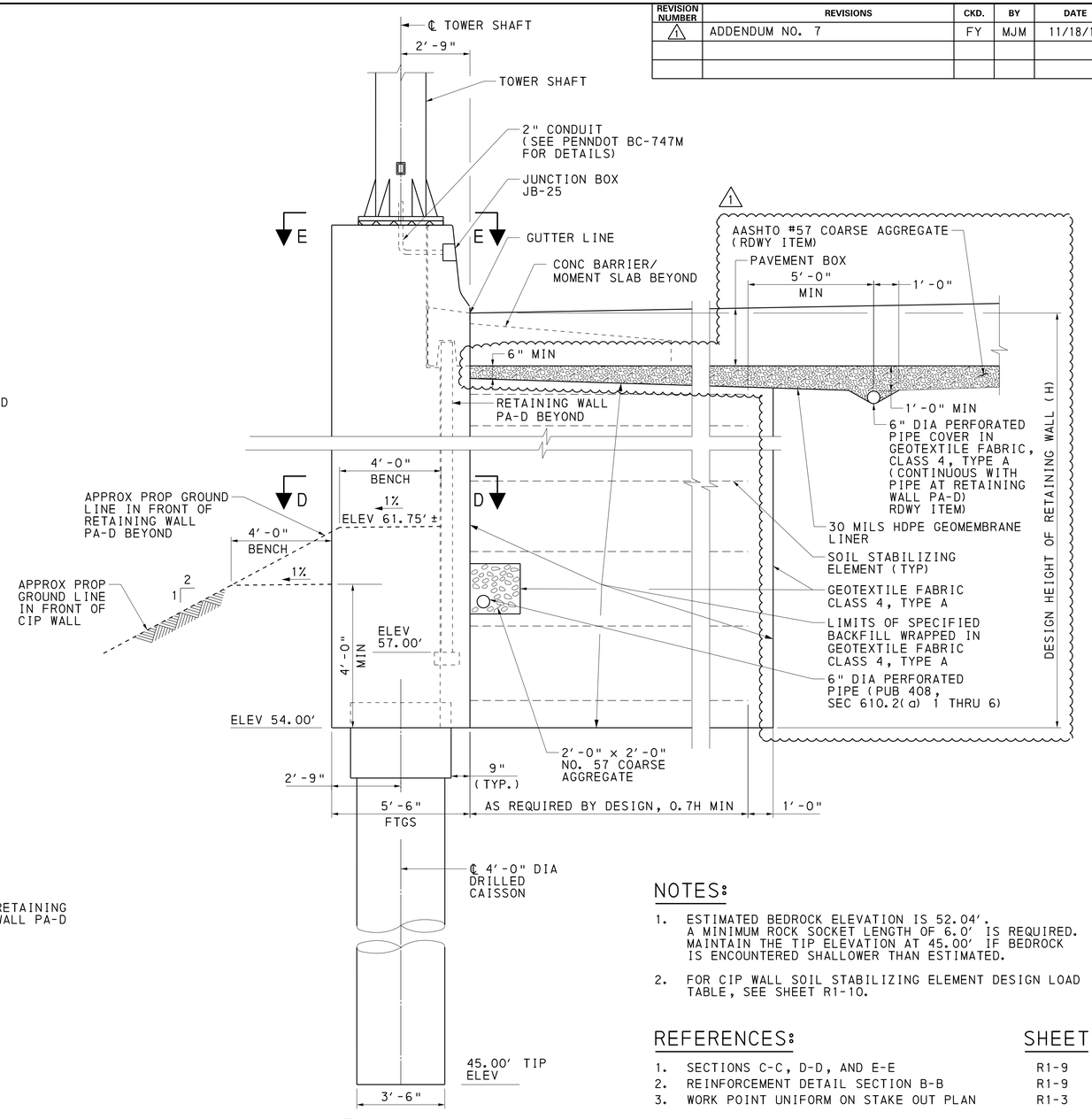

PLAN

0 1' 2' 3' 4'




SECTION A-A

0 1' 2' 3' 4'




SECTION B-B

0 1' 2' 3' 4'

## NOTES:

1. ESTIMATED BEDROCK ELEVATION IS 52.04'. A MINIMUM ROCK SOCKET LENGTH OF 6.0' IS REQUIRED. MAINTAIN THE TIP ELEVATION AT 45.00' IF BEDROCK IS ENCOUNTERED SHALLOWER THAN ESTIMATED.
2. FOR CIP WALL SOIL STABILIZING ELEMENT DESIGN LOAD TABLE, SEE SHEET R1-10.

## REFERENCES:

| | | SHEET |
|---|---|---|
| 1. | SECTIONS C-C, D-D, AND E-E | R1-9 |
| 2. | REINFORCEMENT DETAIL SECTION B-B | R1-9 |
| 3. | WORK POINT UNIFORM ON STAKE OUT PLAN | R1-3 |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REG. PROF. ENGINEER

DATE

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Hamilton, NJ 08619

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MAHER A. SIDANI — ENGINEER PE028281

REG. PROF. ENGINEER

DATE


DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION

SCUDDER FALLS BRIDGE REPLACEMENT PROJECT
CONTRACT NO. T - 668A

RETAINING WALL PA-D
CIP SIGN STRUCTURE FOUNDATION - 1

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| REVISION NUMBER | REVISIONS | CKD. | BY | DATE |
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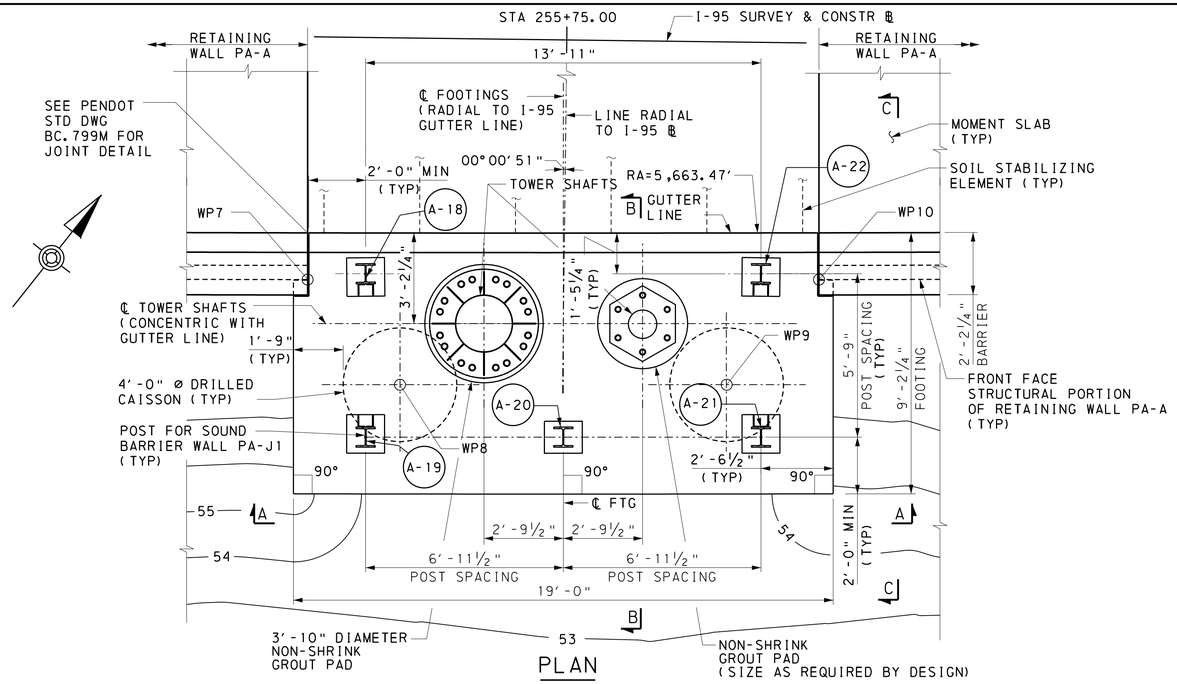
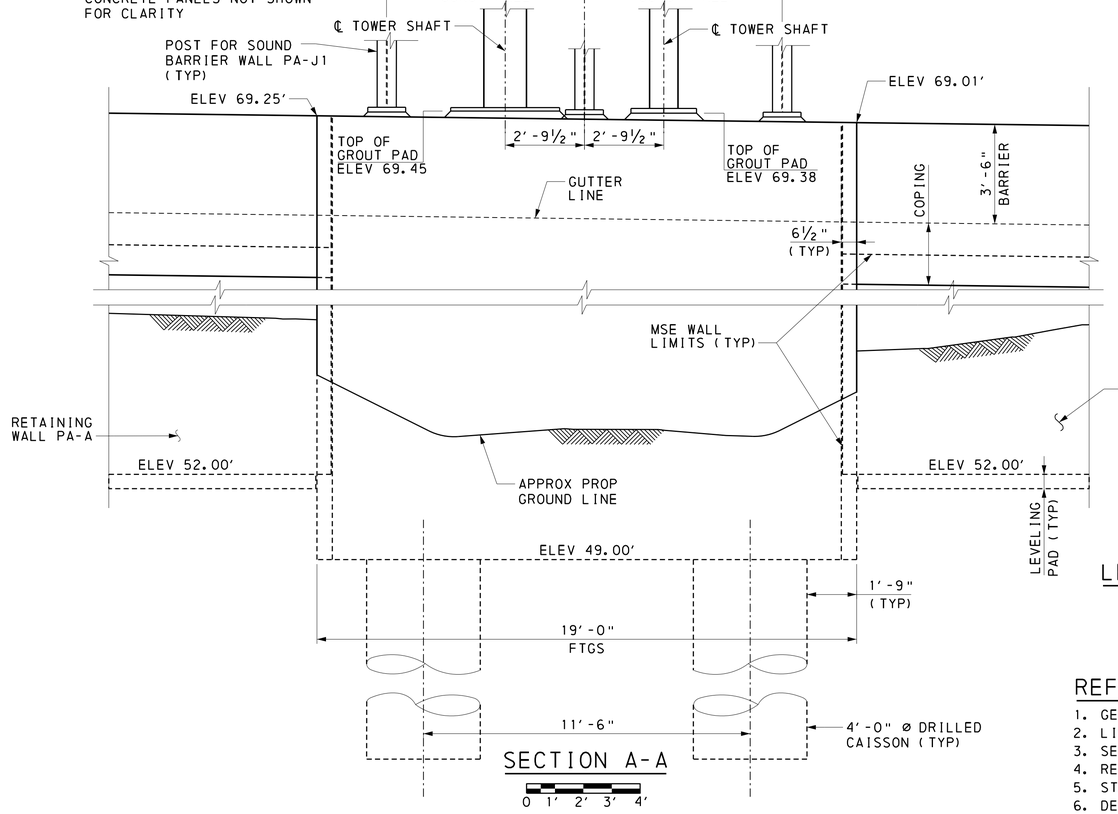



PLAN

0 1′ 2′ 3′ 4′

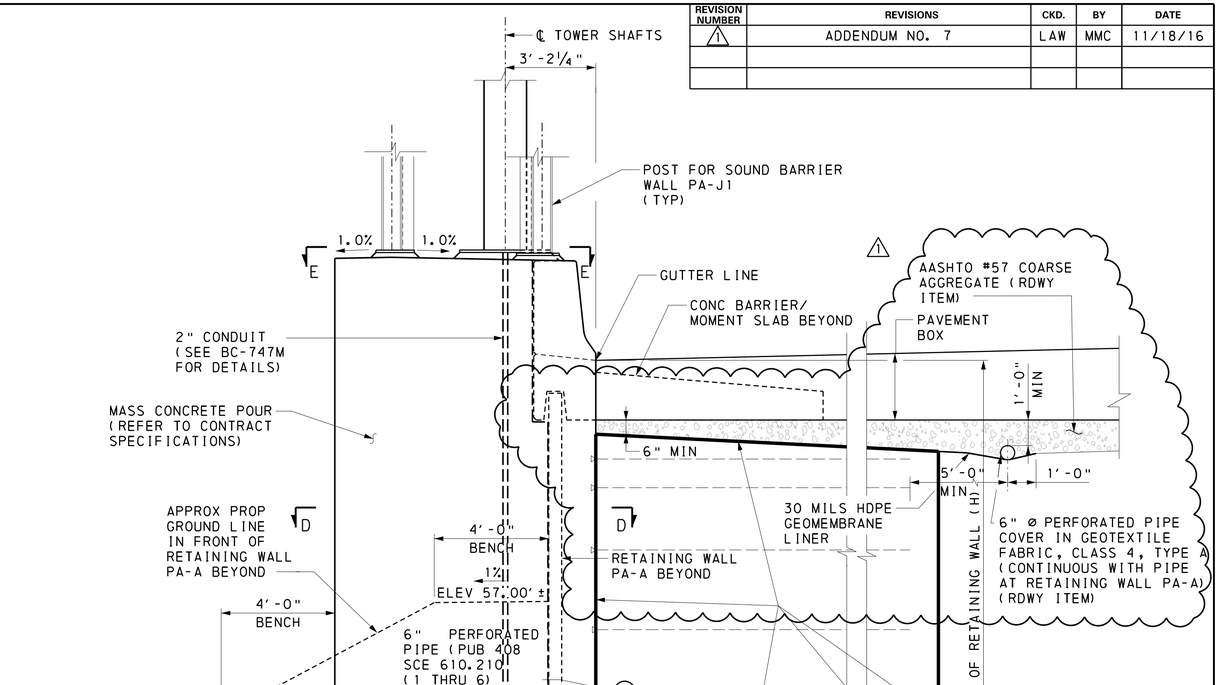
NOTE:

CONCRETE PANELS NOT SHOWN FOR CLARITY




SECTION A-A

0 1′ 2′ 3′ 4′




SECTION B-B

0 1′ 2′ 3′ 4′

FOR REINFORCEMENT DETAIL, SEE SHEET R2-30

NOTES:

1. THE EXPOSED CIP CONCRETE SHALL NOT RECEIVE ARCHITECTURAL FINISH. HOWEVER, THE CONCRETE COLOR (PIGMENT AND PENETRATING STAIN) SHALL MATCH THE ADJACENT RETAINING WALLS.
2. SEE BC-747M FOR SIGN STRUCTURE ANCHOR BOLT AND BASE PLATE DETAILS

LEGEND:

(A-XX) STEEL SOUND BARRIER POST DESIGNATION

REFERENCES:

1. GENERAL NOTES
2. LIST OF PENNDOT STANDARD DRAWINGS
3. SECTIONS C-C, D-D AND E-E
4. REINFORCEMENT DETAIL SECTION B-B
5. STAKE OUT PLAN
6. DESIGN LOADS ON THE CIP SIGN STRUCTURE FOUNDATION

SHEET:

R2-2
R2-1
R2-30
R2-30
R2-3
R2-30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REGISTERED PROFESSIONAL
MAHER A. SIDANI
ENGINEER PE082891

REG. PROF. ENGINEER

DATE

DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION

SCUDDER FALLS BRIDGE REPLACEMENT PROJECT
CONTRACT NO. T - 668A

# CIP SIGN STRUCTURE FOUNDATION AT RETAINING WALL PA-A - 1

| | | | |
|---|---|---|---|
| DRAWN BY | JDJ | ENGINEER | MMC |
| IN CHARGE | JJR | FILE | SS_FDN_WALL |
| DATE | AUGUST 2016 | SCALE | AS SHOWN |

STRUCTURE NO. S-36223

SHEET NO. R2-29 OF R2-79


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CONTRACT NO. T-668A

ADDENDUM NO. 7

PACKAGE B, PART 4 REVISED PLAN SHEETS

| REVISION NUMBER | REVISIONS | CKD. | BY | DATE |
|---|---|---|---|---|
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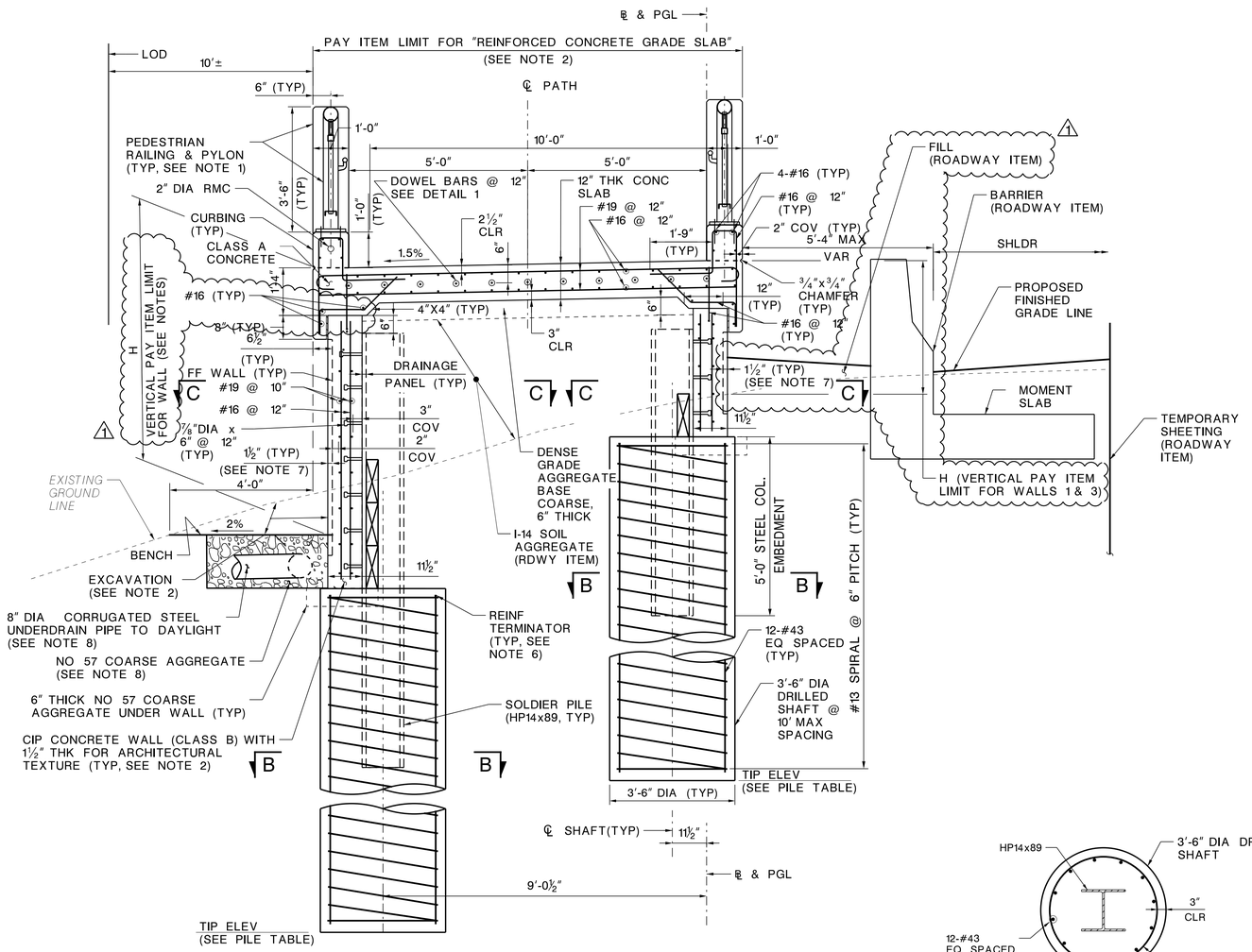


## SECTION A-A

STA 32+72.75 TO STA 33+80

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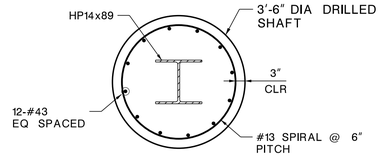
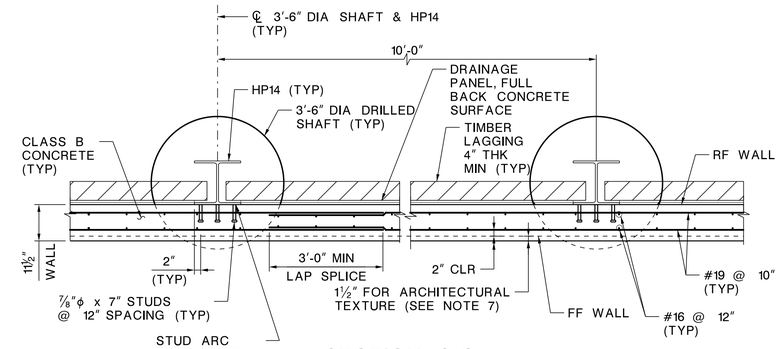
½" = 1'-0"




## SECTION B-B

1' 6" 0 1' 2' 3' 4'

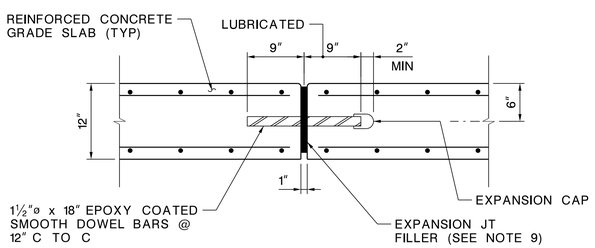
½" = 1'-0"




## SECTION C-C

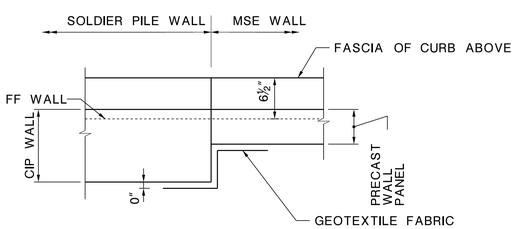
1' 6" 0 1' 2' 3' 4'

½" = 1'-0"




## DETAIL-1 (REBAR)

NTS




## DETAIL-2

NTS

## NOTES:

1. FOR THE DETAILS OF PEDESTRIAN RAILING AND PYLON, SEE DWG NOS B4-43 AND B4-44.
2. FOR GENERAL NOTES, SEE DWG NO B4-45.
3. FOR PILE TABLE, SEE DWG NO B4-53.
4. FOR DETAILS OF CONCRETE POST, AND JUNCTION BOX, SEE DWG NO B4-43. CONCRETE POST WITH LIGHT AND JUNCTION BOX IS REQUIRED AT THE WEST PEDESTRIAN RAILING ONLY.
5. THE REINFORCEMENT TERMINATOR SHALL BE LENTON TERMINATOR AS MANUFACTURED BY ERICO (SOLON, OHIO) OR APPROVED EQUAL.
6. FOR TYPICAL REINFORCEMENT LAYOUT FOR SOLDIER PILE WALL, SEE DWG NO B4-58.
7. ARCHITECTURAL TEXTURE SHALL BE PROVIDED ON THE EXPOSED SURFACE AND 12" MINIMUM BELOW THE FINISH GRADE.
8. FOR DRAINAGE SYSTEM, SEE DRAINAGE PLANS AND DWG NO B4-59.
9. CUT EXPANSION JOINT FILLER MATERIAL IN STRIPS EQUAL TO THE WIDTH OF PATH AND CURBS. MAKE THE TOP SURFACE SMOOTH AND HAVE HOLES PUNCHED FOR THE DOWEL BARS.

DWG. B4-54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CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION

SCUDDER FALLS BRIDGE REPLACEMENT PROJECT
CONTRACT NO. T - 668A

NEW JERSEY BICYCLE/PEDESTRIAN PATH
RETAINING WALL
TYPICAL SECTIONS - 1

THOMAS A FISHER
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 24GE03429000

MAHER A. SIDANI
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 37787

| | | | |
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| DRAWN BY | MP | ENGINEER | WC |
| IN CHARGE | TAF | FILE | rw11_ped_ADD_07.dgn |
| DATE | AUGUST 2016 | SCALE | AS NOTED |

STRUCTURE NO. 1109-152

SHEET NO. 850 OF 1020


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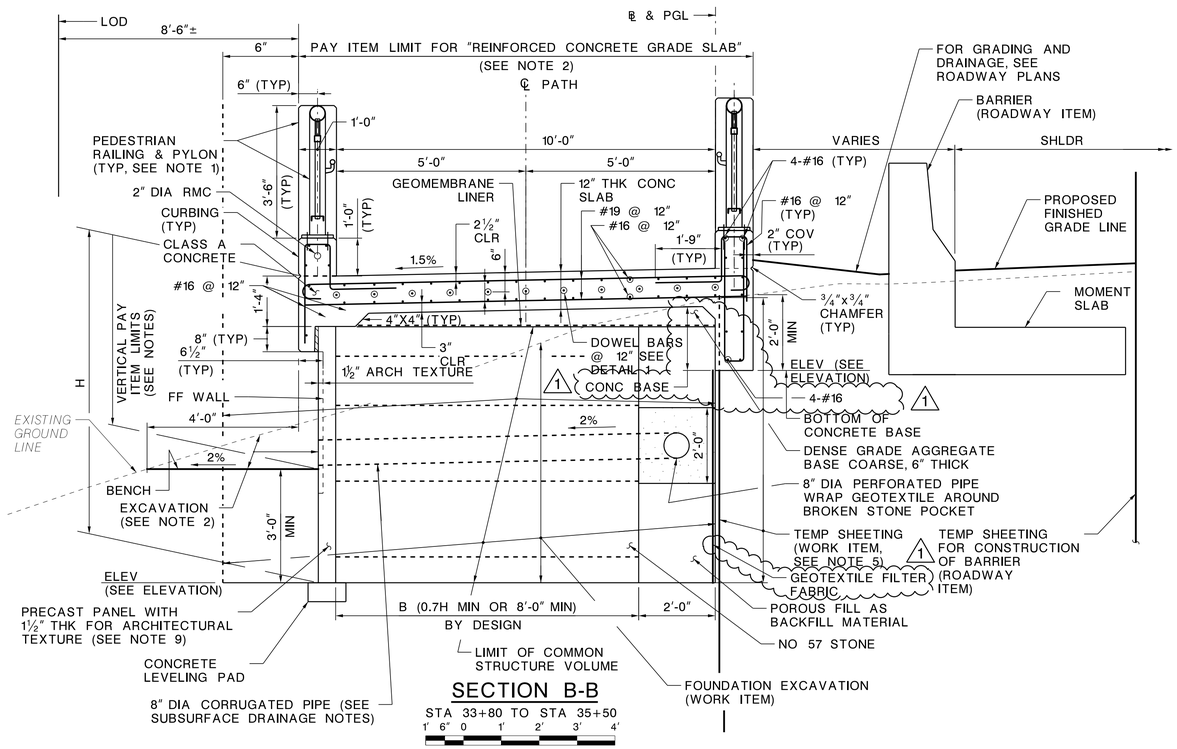


## SECTION B-B

STA 33+80 TO STA 35+50

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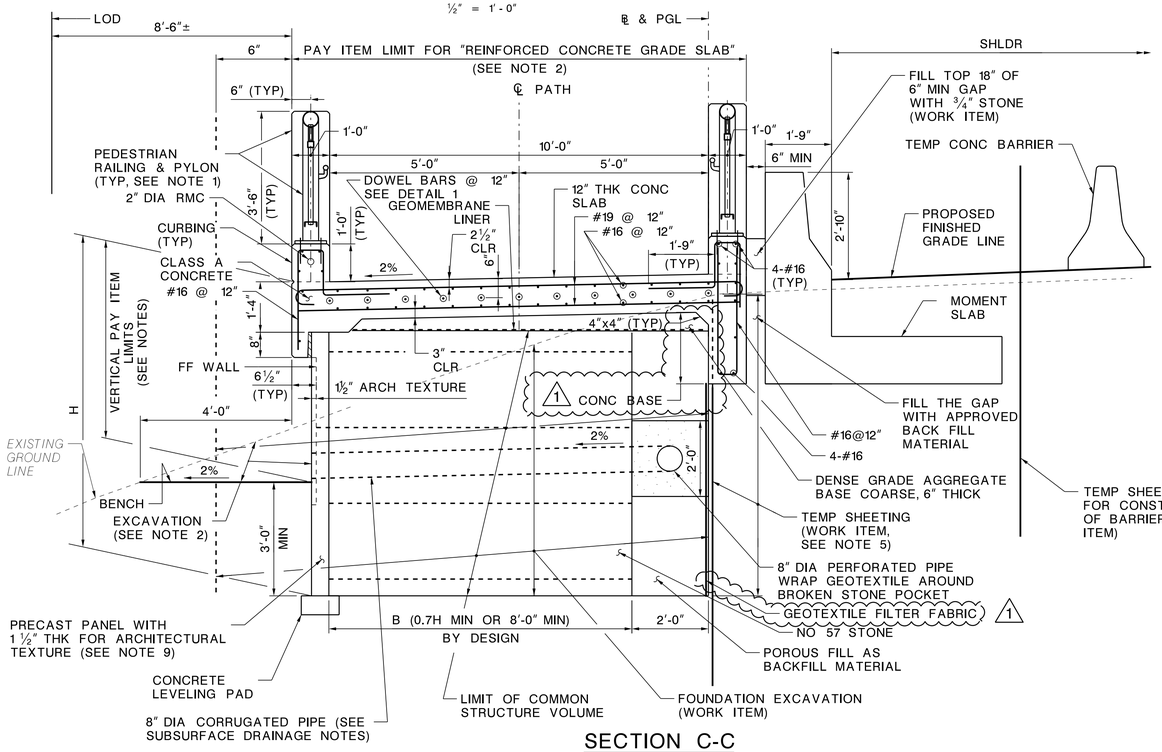
½" = 1'-0"




## SECTION C-C

STA. 35+50 TO 40+50

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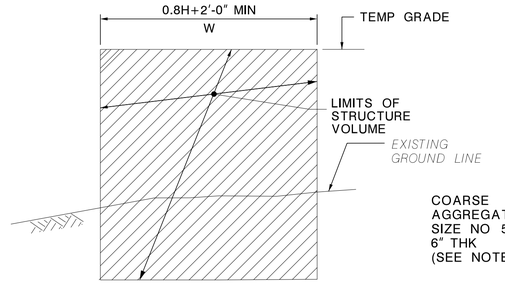
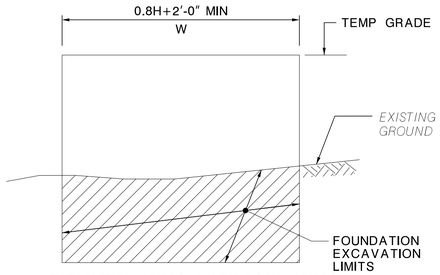


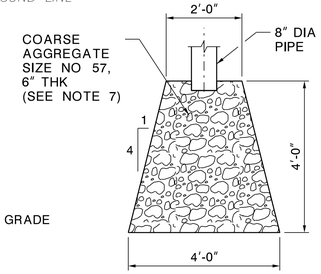

## COMMON STRUCTURE VOLUME (PAY LIMIT)




## FOUNDATION EXCAVATION (WORK LIMIT)

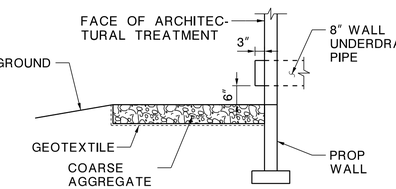
## LIMITS FOR MSE WALLS IN CUT SECTION

NTS




## PLAN

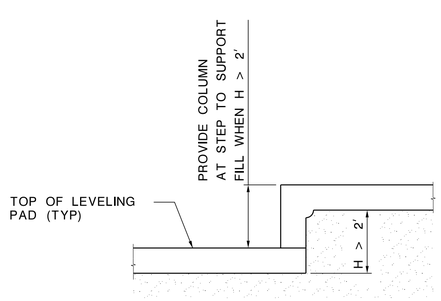
NTS




## SECTION

NTS

## MSE WALL UNDERDRAIN OUTLET PROTECTION




## TYPICAL LEVELING PAD STEP DETAILS

NTS

NOTES:

1. FOR THE DETAILS OF PEDESTRIAN RAILING AND PYLON, SEE DWG NOS B4-43 AND B4-44.
2. FOR GENERAL NOTES, SEE DWG NO B4-45.
3. TOP OF SELECTED BACKFILL SHALL BE GRADED SO MEMBRANE IS PLACED SUCH THAT IT DRAINS AWAY FROM THE FACE OF THE WALL.
4. THE SHOP DRAWINGS FOR WALL SYSTEM SHALL ALSO INCLUDE THE DETAILS ACCOMMODATING THE DRAINAGE SYSTEM AND STRUCTURES.
5. THE TOP OF TEMPORARY SHEETING SHALL BE EXTENDED 3'-0" MINIMUM ABOVE THE TOP OF RETAINED SOIL AND SHALL BE DESIGNED FOR TRAFFIC IMPACT LOADS IF THE SHEETING IS SUBJECTED TO TRAFFIC IMPACT LOADS.
6. THE HDPE GEOMEMBRANE SHALL BE A NOMINAL THICKNESS OF 30 MIL CONFORMING TO NJDOT STANDARD SPECIFICATIONS SECTION 919.05.
7. CONSTRUCT 4'x4'x6" THICK COARSE AGGREGATE LAYER AT EACH LOCATION OF UNDERDRAIN PIPE AT NO COST TO THE COMMISSION.
8. FOR DETAILS OF INLET, SEE DWG NO. B4-60.
9. ARCHITECTURAL TEXTURE SHALL BE PROVIDED ON THE EXPOSED SURFACE AND 12" MINIMUM BELOW THE FINISH GRADE.

SUBSURFACE DRAINAGE NOTES:

1. MINIMUM SLOPE FOR THE DRAINAGE PIPE BEHIND THE WALL IS 1/8" PER FOOT.
2. MAXIMUM SPACING OF UNDERDRAIN OUTLET IS 100 FEET. DAYLIGHT OUTLETS TO FRONT FACE OF WALL AT A MINIMUM SLOPE OF 1/4" PER FOOT. INVERT ELEVATION AT FRONT FACE OF WALL IS RESTRICTED TO 6" MINIMUM TO 12" MAXIMUM ABOVE FINAL GROUND ELEVATION.
3. WALL STRUCTURE TO BE DETAILED BY WALL MANUFACTURER TO ACCOMMODATE CORRUGATED METAL PIPE UNDERDRAIN OUTLET. ANY FIELD CUT WALL PANELS FOR UNDERDRAIN PIPES SHALL BE CORED WITH A 10 INCH DIAMETER OPENING. ALL CUT ENDS OF PANEL REBAR TO BE TOUCHED UP WITH ANTICORROSION REPAIR MATERIAL AS PER THE SPECIFICATIONS.
4. THE GAP BETWEEN OVERSIZED HOLE AND PIPE AT FRONT FACE OF WALL TO BE FILLED WITH NON-SHRINK GROUT AND ITS COLOR TO BE MATCHED WITH THE PANEL.

DWG. B4-55

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CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION

SCUDDER FALLS BRIDGE REPLACEMENT PROJECT
CONTRACT NO. T - 668A

NEW JERSEY BICYCLE/PEDESTRIAN PATH
RETAINING WALL
TYPICAL SECTIONS - 2

THOMAS A FISHER
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 24GE03429000

MAHER A. SIDANI
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 37787

| | | | | | |
|---|---|---|---|---|---|
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NJDOT-Baker_2012.PEN

| REVISION NUMBER | REVISIONS | CKD. | BY | DATE |
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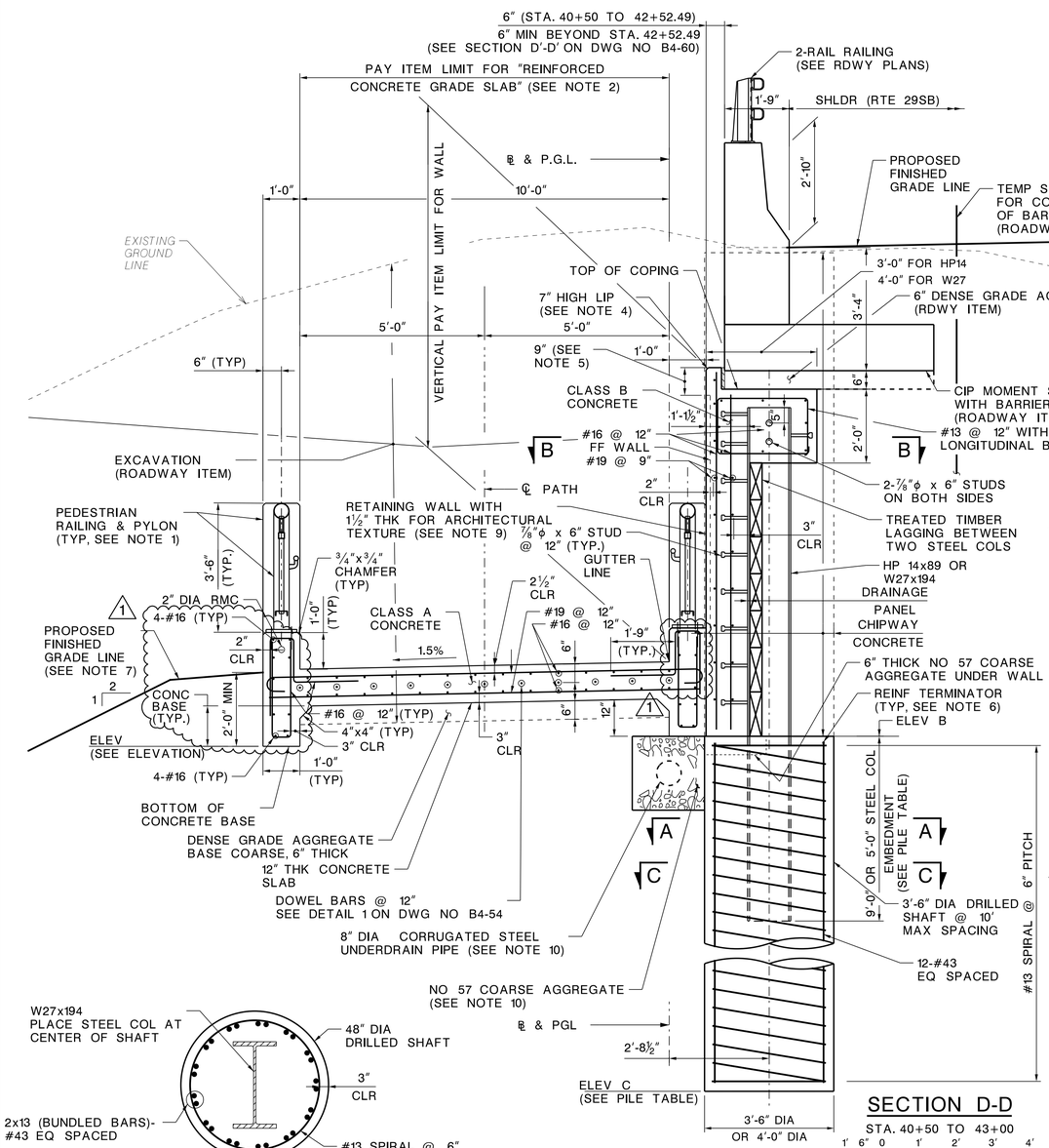
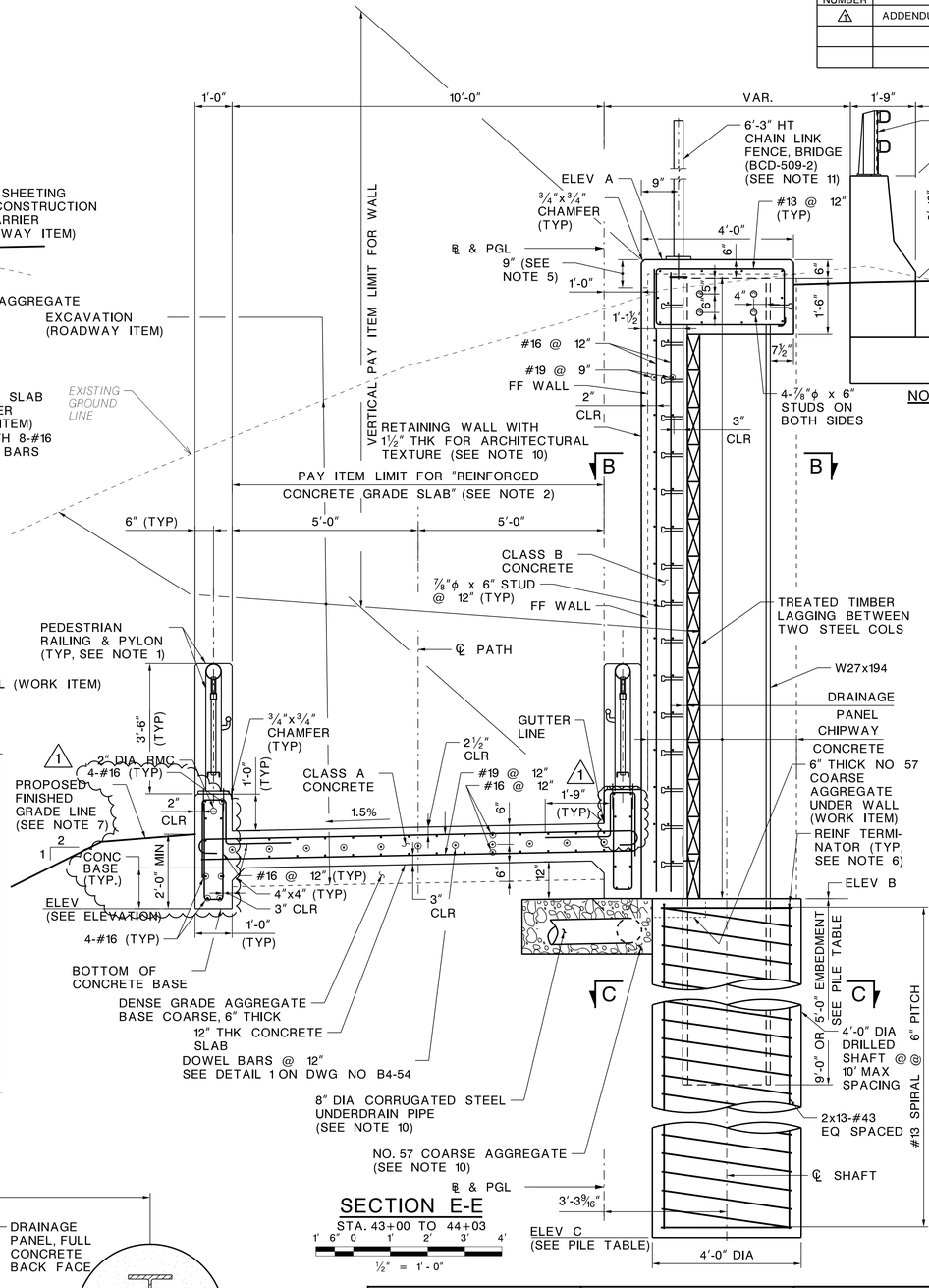



## SECTION D-D

STA. 40+50 TO 43+00

1' 6" 0 1' 2' 3' 4'

½" = 1'-0"




## SECTION E-E

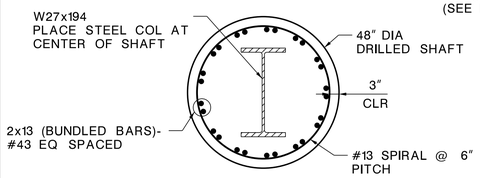
STA. 43+00 TO 44+03

1' 6" 0 1' 2' 3' 4'

½" = 1'-0"

### NOTES:

1. FOR THE DETAILS OF PEDESTRIAN RAILING AND PYLON, SEE DWG NOS B4-43 AND B4-44.
2. FOR GENERAL NOTES, SEE DWG NO B4-45. THE EXCAVATION AS REQUIRED FOR REINFORCED CONCRETE GRADE SLAB AND 6" THICK DENSE GRADE AGGREGATE BASE COURSE WITHIN THE LIMITS OF SOLDIER PILE WALL 5 (CUT SECTION), WILL BE PAID UNDER "UNCLASSIFIED EXCAVATION", ROADWAY ITEM.
3. FOR PILE TABLE, SEE DWG NO B4-53.
4. THE 7" HIGH BY 5" MINIMUM LIP SHALL BE MONOLITHICALLY CAST WITH CONCRETE FACING. THE WIDTH OF LIP SHALL BE TRANSITIONING TO THE FULL COPING SIZE (4'x2') BETWEEN SECTION D-D AND SECTION E-E. OMIT LIP AT LIGHT BLISTER LOCATIONS WHERE THE BARRIER BUMPS OUT 6". PROVIDE JOINT FILLER MATERIAL BETWEEN LIP AND BARRIER.
5. THE UPPER LIMIT OF ARCHITECTURAL TEXTURE IS 9" BELOW THE TOP OF CONCRETE COPING.
6. CONTRACTOR TO PROVIDE THE REINFORCEMENT TERMINATOR TO ENGINEER FOR APPROVAL.
7. FOR PROPOSED FINISH GRADE, SEE GRADING PLANS.
8. FOR TYPICAL REINFORCEMENT LAYOUT FOR SOLDIER PILE WALLS, SEE DWG NO B4-58.
9. ARCHITECTURAL TEXTURE SHALL BE PROVIDED ON THE EXPOSED SURFACE AND 6" MINIMUM BELOW THE TOP OF CONCRETE CURB.
10. FOR DRAINAGE SYSTEM, SEE DRAINAGE PLANS AND DWG NO B4-59.
11. THE CONSTRUCTION OF 6'-3" HEIGHT CHAIN-LINK FENCE SHALL BE IN ACCORDANCE WITH NJDOT STANDARD DETAILS BCD-509-2, 1-RAIL RAILING IS NOT REQUIRED IN THE FRONT OF FENCE. THE FINISH COLOR OF FENCE SHALL BE FEDERAL STANDARD COLOR NUMBER 37038. THE CONSTRUCTION OF CHAIN-LINK FENCE IS INCIDENTAL TO THE COST OF SOLDIER PILE WALL 5.

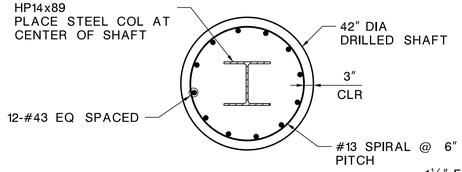



## SECTION C-C

SHAFTS 5S9 THRU 5S36

1' 6" 0 1' 2' 3' 4'

½" = 1'-0"

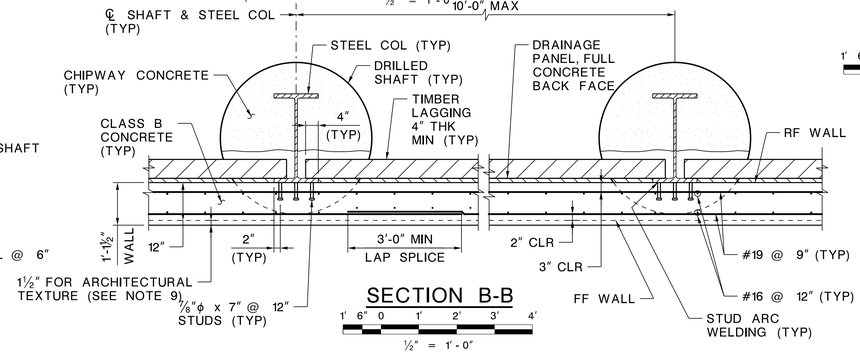



## SECTION A-A

SHAFTS 5S1 THRU 5S8

1' 6" 0 1' 2' 3' 4'

½" = 1'-0"




## SECTION B-B

1' 6" 0 1' 2' 3' 4'

½" = 1'-0"

DWG. B4-56

| | | |
|---|---|---|
| IH Engineers, P.C. — IH Engineers, P.C. 103 College Rd. East, First Floor Princeton, NJ 08540 | Michael Baker INTERNATIONAL — Michael Baker International 300 American Metro Blvd, Ste. 154 Hamilton, NJ 08619 | DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION |
| | CERTIFICATION OF AUTHORIZATION NO. 24GA27954700 | SCUDDER FALLS BRIDGE REPLACEMENT PROJECT CONTRACT NO. T - 668A |
| | | NEW JERSEY BICYCLE/PEDESTRIAN PATH RETAINING WALL TYPICAL SECTIONS - 3 |
| THOMAS A FISHER — NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE03429000 | MAHER A. SIDANI — NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 37787 | DRAWN BY MP · ENGINEER WC · STRUCTURE NO. 1109-152 · IN CHARGE TAF · FILE rw13_ped_ADD_07.dgn · DATE AUGUST 2016 · SCALE AS NOTED · SHEET NO. 852 OF 1020 |

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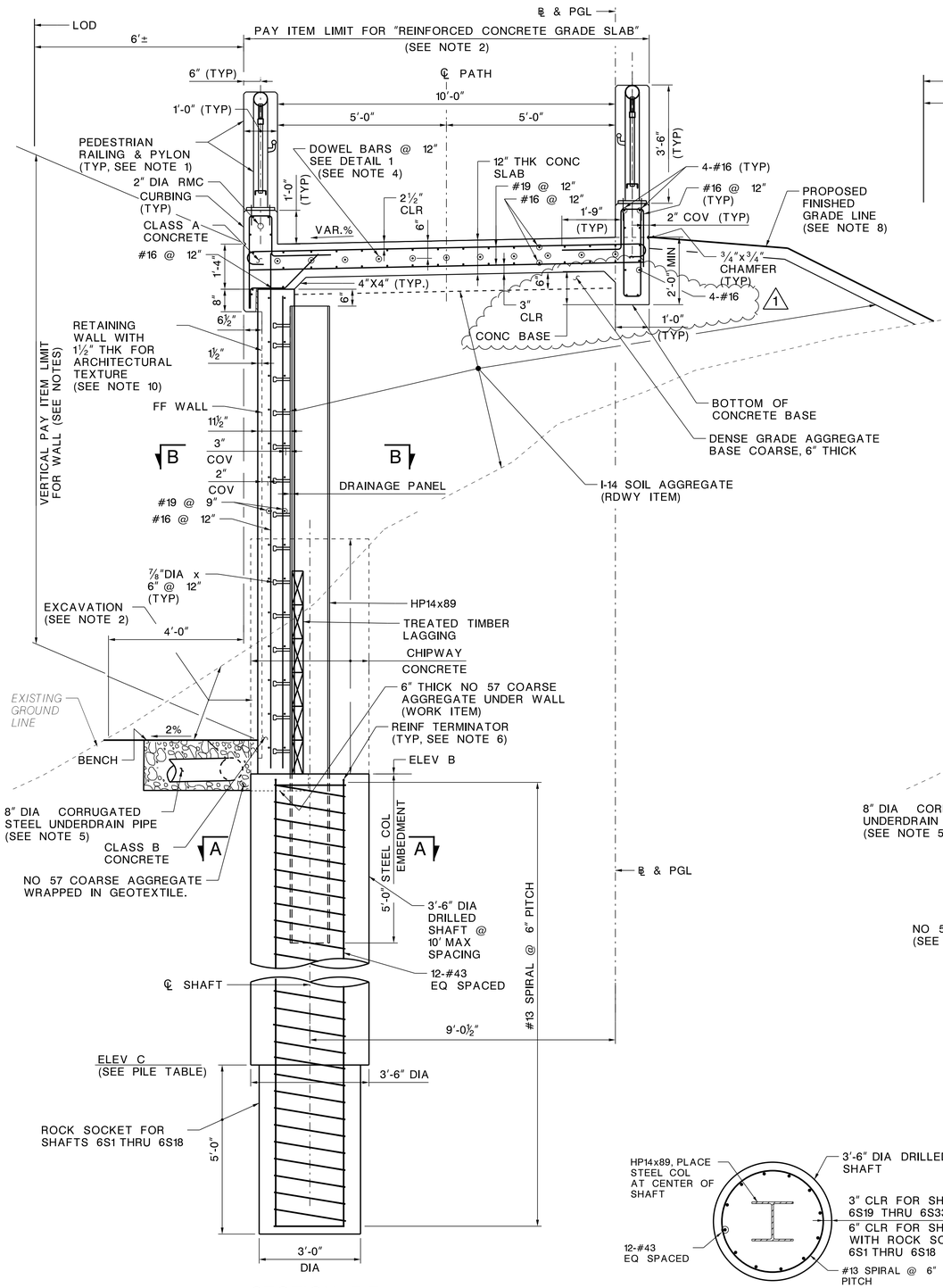
mmarue 17-NOV-2016 14:00
IH ENGINEERS, P.C. - CADD DATA NJDOT-Baker_2012.PEN

| REVISION NUMBER | REVISIONS | CKD. | BY | DATE |
|---|---|---|---|---|
| 1 | ADDENDUM NO. 7 | WC | MJM | 11/18/2016 |
| | | | | |
| | | | | |

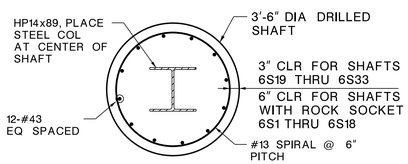



## SECTION F-F

STA. 43+55 TO 46+00

1' 6" 0 1' 2' 3' 4'

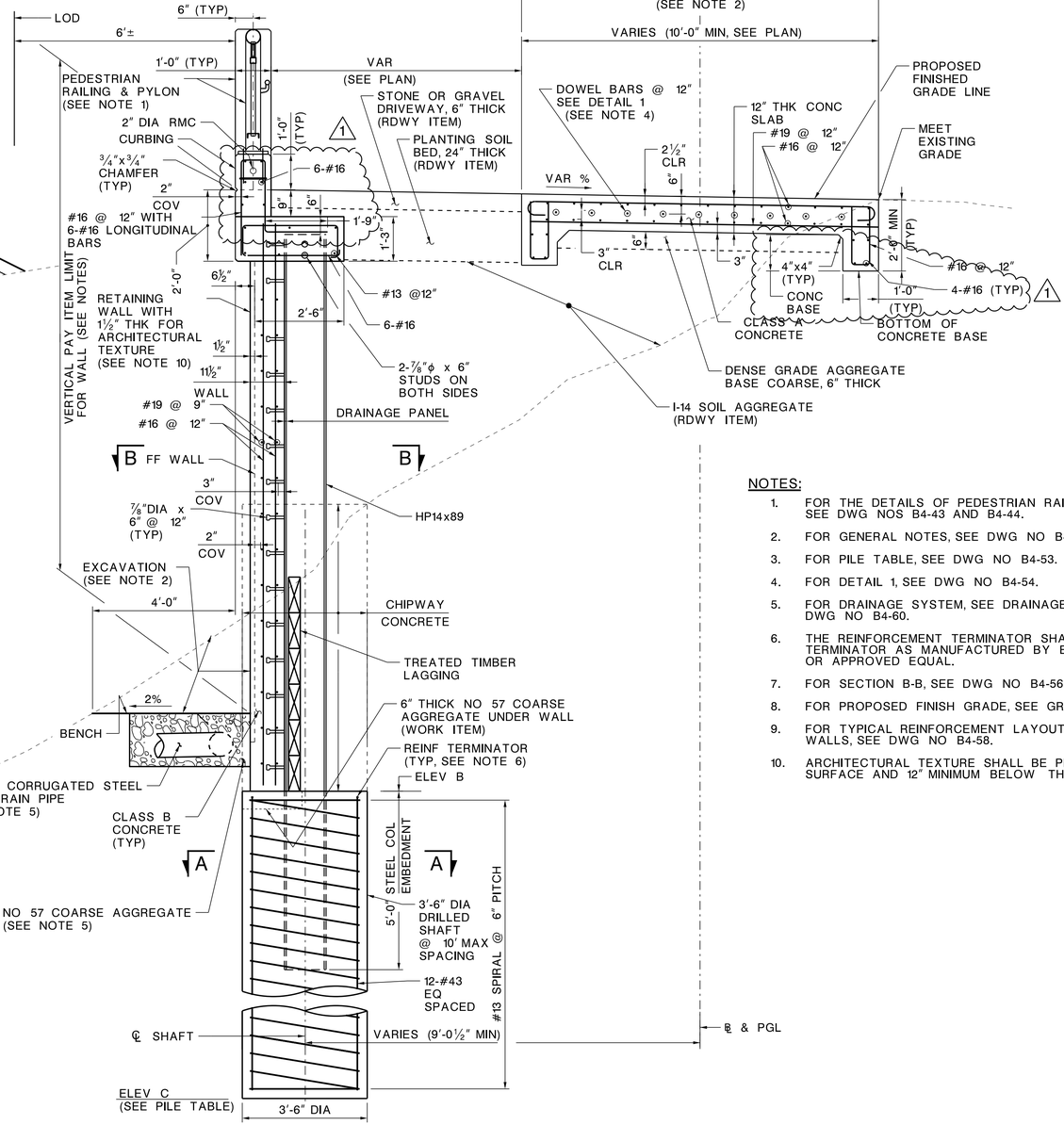
½" = 1'-0"




## SECTION A-A

1' 6" 0 1' 2' 3' 4'

½" = 1'-0"




## SECTION G-G

STA. 46+00 TO 46+71.34

1' 6" 0 1' 2' 3' 4'

½" = 1'-0"

NOTES:

1. FOR THE DETAILS OF PEDESTRIAN RAILING AND PYLON, SEE DWG NOS B4-43 AND B4-44.
2. FOR GENERAL NOTES, SEE DWG NO B4-45.
3. FOR PILE TABLE, SEE DWG NO B4-53.
4. FOR DETAIL 1, SEE DWG NO B4-54.
5. FOR DRAINAGE SYSTEM, SEE DRAINAGE PLANS AND DWG NO B4-60.
6. THE REINFORCEMENT TERMINATOR SHALL BE LENTON TERMINATOR AS MANUFACTURED BY ERICO (SOLON, OHIO) OR APPROVED EQUAL.
7. FOR SECTION B-B, SEE DWG NO B4-56.
8. FOR PROPOSED FINISH GRADE, SEE GRADING PLANS.
9. FOR TYPICAL REINFORCEMENT LAYOUT FOR SOLDIER PILE WALLS, SEE DWG NO B4-58.
10. ARCHITECTURAL TEXTURE SHALL BE PROVIDED ON THE EXPOSED SURFACE AND 12" MINIMUM BELOW THE FINISH GRADE.

DWG. B4-57

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CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

THOMAS A FISHER
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 24GE03429000

MAHER A. SIDANI
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 37787

# DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION

## SCUDDER FALLS BRIDGE REPLACEMENT PROJECT
## CONTRACT NO. T - 668A

## NEW JERSEY BICYCLE/PEDESTRIAN PATH
## RETAINING WALL
## TYPICAL SECTION - 4

| | | | | | |
|---|---|---|---|---|---|
| DRAWN BY | MP | ENGINEER | WC | STRUCTURE NO. | 1109-152 |
| IN CHARGE | TAF | FILE | rw14_ped_ADD_07.dgn | | |
| DATE | AUGUST 2016 | SCALE | AS NOTED | SHEET NO. | 853 OF 1020 |

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mmarue
17-NOV-2016 12:36
IH ENGINEERS, P.C. - CADD DATA
NJDOT-Baker_2012.PEN