

LCB	DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS	
	6-0	DELAWARE		MEDIA	-	-	5	
WBS ELEMENT								
T/P	SYS	W.O.	SPUR	PHA	SECTION	ORG.	PRG.	P_C
-	-	-	-	-	-	-	-	-

ECMS/MPMS #

ALSO INCLUDED:

EROSION AND SEDIMENT POLLUTION CONTROL PLAN 4 SHEETS  
STRUCTURE PLAN 3 SHEETS  
CROSS SECTIONS 8 SHEETS

DRAWINGS  
FOR  
CONSTRUCTION  
OF  
THIRD STREET  
IN DELAWARE COUNTY

FROM STA. 11+00.00 TO STA. 16+00.00 LENGTH 320.00 FT. 0.061 MI.

SCALE



(AND OTHER SCALES AS SHOWN ON THE DRAWINGS)

DESIGN DESIGNATION

HIGHWAY CLASSIFICATION - URBAN MINOR COLLECTOR  
DESIGN SPEED - 30 MPH (25 MPH POSTED)  
PAVEMENT WIDTH - 21'  
SHOULDER WIDTH - 5'  
MEDIAN WIDTH - N/A

TRAFFIC DATA  
CURREN ADT - N/A  
DESIGN YEAR ADT - 2,000 VPD (2032)  
DHV - 220 VPH (11%)  
D - 55%  
T - 5%

SAFETY REVIEW  
MARCH 2011

RECOMMENDED DATE: _____
DISTRICT EXECUTIVE _____
MEDIA BOROUGH MANAGER _____ DATE: _____
MEDIA BOROUGH COUNCIL PRESIDENT _____ DATE: _____
MEDIA BOROUGH COUNCIL VICE-PRESIDENT _____ DATE: _____

PREPARED BY:  
LARSON DESIGN GROUP, INC.  
901 DAWN AVENUE  
EPHRATA, PA 17522

*PRELIMINARY  
DRAWING  
OR  
INFORMATION*

*This drawing and/or information shall be used for reference purposes only, as details and content are subject to change.*

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	-	-	2 OF 5
MEDIA BOROUGH				
REVISION NUMBER	REVISIONS	DATE	BY	

### GENERAL NOTES

THE LEGAL RIGHT-OF-WAY ON THIRD STREET FROM STA 11+00.00 TO STA 16+00.00 IS 50 FEET BASED ON PLAN OF PROPERTY OF MEDIA SWIMMING & ROWING CLUB, PREPARED BY G.D. HOUTMAN & SON, INC., DATED DECEMBER 9, 1967 (REVISED MARCH 15, 1968).

THE LEGAL RIGHT-OF-WAY ON WEST STREET IS 60 FEET BASED ON A DEED FOR KENT M. DAVIDSON AND SHANNON O. DAVIDSON, HUSBAND AND WIFE, DATED DECEMBER 6, 2006 AND RECORDED IN BOOK 03981, PAGE 1270 IN THE DELAWARE COUNTY RECORDER'S OFFICE ON DECEMBER 14, 2006.

 THE BOROUGH RESERVES THE RIGHT TO ELIMINATE ANY OR ALL OF THIS WORK. DO NOT PERFORM WORK EXCEPT THAT WHICH IS WITHIN THE HIGHWAY RIGHT-OF-WAY UNTIL SO ORDERED IN WRITING BY THE ENGINEER.

CONSTRUCT PROJECT IN ACCORDANCE WITH PUBLICATION 408 SPECIFICATIONS, DATED 2011.

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM, INC., PHONE 1-800-242-1776, SERIAL NO. 20101822295 FOR MEDIA BOROUGH.

HORIZONTAL CONTROL IS BASED ON AN INDEPENDANT, ARBITRARY COORDINATE SYSTEM.

ELEVATIONS ARE BASED ON THE LOCAL BENCHMARK AT THE UPSTREAM INVERT OF THE EXISTING CULVERT.

### TABULATION OF OVERALL LENGTH

LIMIT OF WORK STA 11+00.00 TO LIMIT OF WORK STA 16+00.00= 500.00 FEET = 0.095 MILES

### TABULATION OF CONSTRUCTION LENGTH

START WORK STA 11+85.00 TO STOP WORK STA 15+50.00 = 365.00 FEET = 0.069 MILES

### LIST OF STATIONING EQUALITIES

NONE

**PUBLIC UTILITIES**

PENNSYLVANIA ONE CALL SYSTEM  
1-800-242-1776  
SERIAL NO. 20101822295

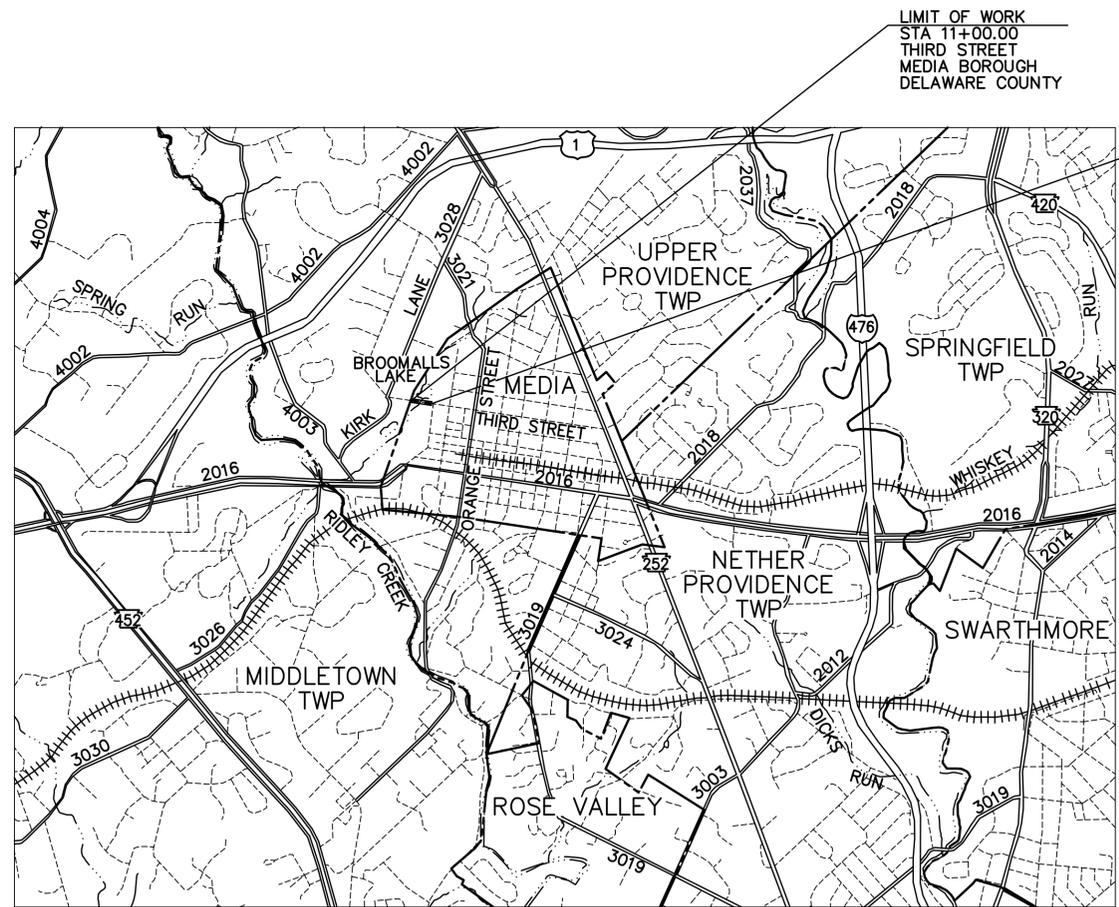
AQUA PENNSYLVANIA INC.  
762 W LANCASTER AVE.  
BRYN MAWR, PA 19101  
MR. JOHN GIBSON

COMCAST  
1701 JFK BLVD,  
PHILADELPHIA, PA 19103

GFK CUSTOM RESEARCH  
ONE WEST THIRD STREET  
MEDIA, PA 19063

PECO ENERGY  
2301 MARKET STREET  
P.O. BOX 8699  
PHILADELPHIA, PA 19101

VERIZON  
1631 ARCH STREET,  
PHILADELPHIA, PA 19103



### LOCATION MAP



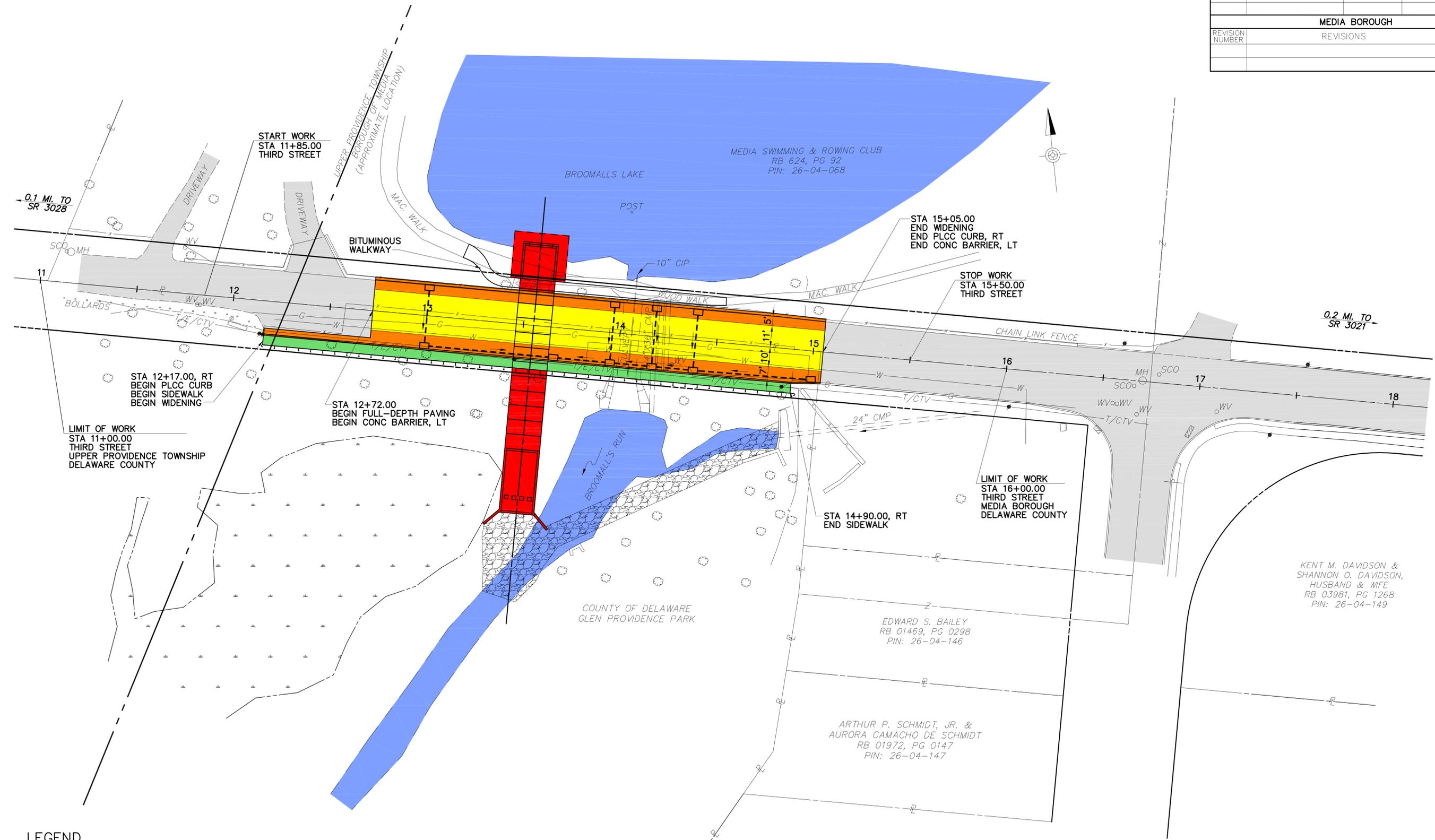
### LEGEND

-  PROJECT LOCATION
-  STATE HIGHWAY
-  TOWNSHIP/BOROUGH ROAD
-  RAILROAD
-  MUNICIPAL BOUNDARY

**PRELIMINARY  
DRAWING  
OR  
INFORMATION**

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	-	-	4 OF 5
MEDIA BOROUGH				
REVISION NUMBER	REVISIONS	DATE	BY	

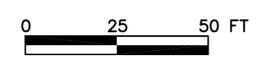


**LEGEND**

- PROPOSED ROADWAY
- PROPOSED SHOULDER/PARKING LANE
- PROPOSED SIDEWALK
- PROPOSED STRUCTURE

**PRELIMINARY  
DRAWING  
OR  
INFORMATION**

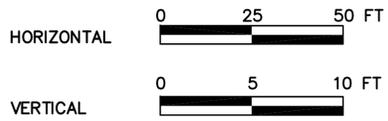
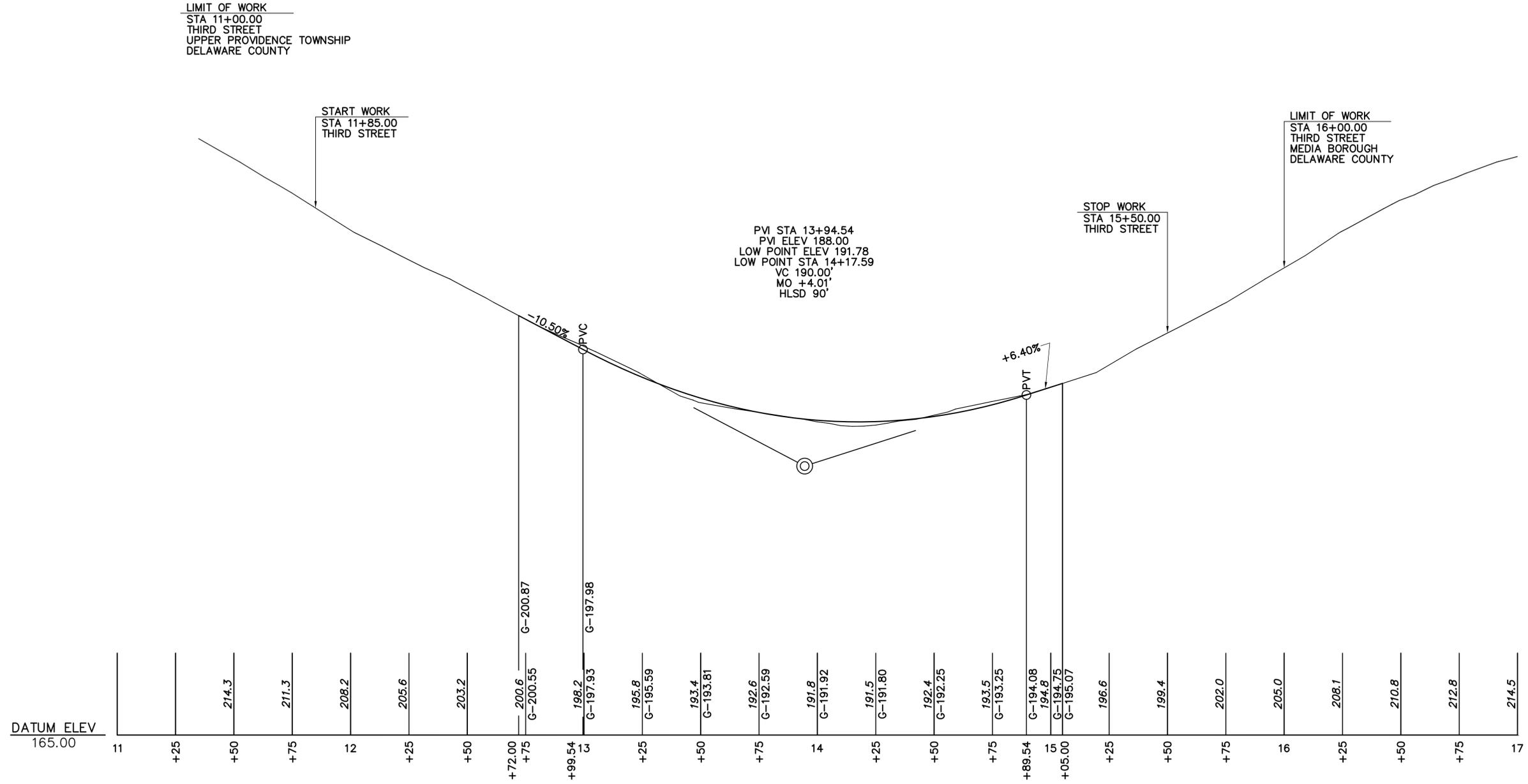
*This drawing and/or information shall be used for reference purposes only, as details and content are subject to change.*



FOR PROFILE, SEE SHEET 5  
SURVEY BOOK NO.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	-	-	5 OF 5
MEDIA BOROUGH				
REVISION NUMBER	REVISIONS	DATE	BY	

## THIRD STREET



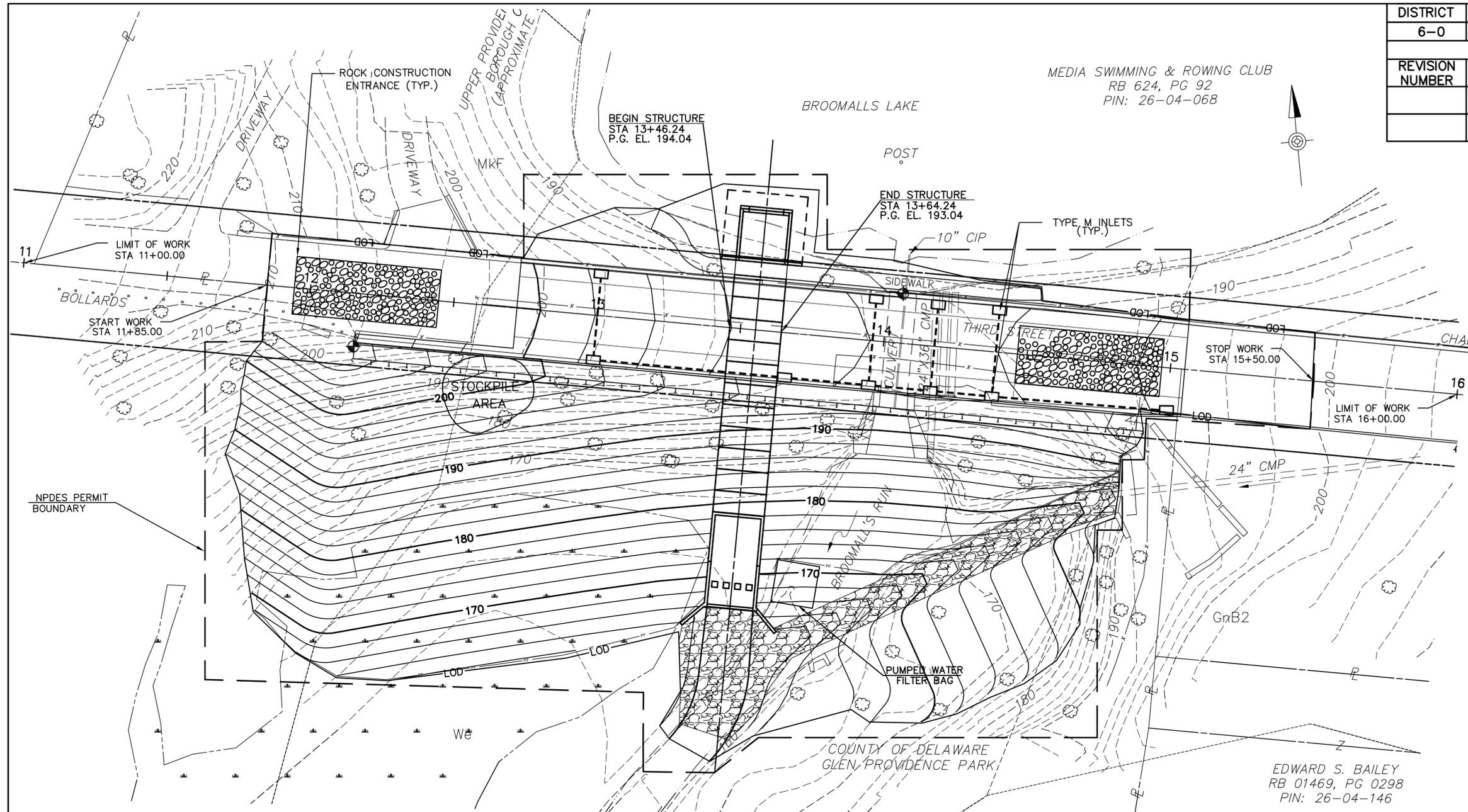
**PRELIMINARY  
DRAWING  
OR  
INFORMATION**

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FOR PLAN, SEE SHEET 4

SURVEY BOOK NO.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE			1 OF 4
BOROUGH OF MEDIA				
REVISION NUMBER	REVISIONS	DATE	BY	



**AREA OF EARTH DISTURBANCE**  
 NPDES PERMIT BOUNDARY= 56,119 SF (1.29 ACRES)  
 APPROXIMATE AREA OF EARTH DISTURBANCE = 48,276 SF (1.11 ACRES)

SHOULD THE CONTRACTOR DISTURB ANY ADDITIONAL ACREAGE DUE TO CONTRACTOR'S METHOD OF OPERATIONS, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR OBTAINING ANY ADDITIONAL REQUIRED PERMITS AND NOTIFYING THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, SE REGIONAL OFFICE, 2 EAST MAIN STREET NORRISTOWN, PA 19401

**SOILS INFORMATION**

**GnB2**  
 TYPE: GLENVILLE SILT LOAM  
 DESCRIPTION: VERY DEEP, SOMEWHAT POORLY DRAINED SLOPES RANGE FROM 3-8% PERMEABILITY IS SLOW SEASONAL WATER TABLE - 6"-36" FLOODING POTENTIAL- NONE HYDROLOGIC GROUP-C

**We**  
 TYPE: WEHADKEE SILT LOAM  
 DESCRIPTION: VERY DEEP, SOMEWHAT POORLY DRAINED SLOPES RANGE FROM 0-3% PERMEABILITY IS MODERATE SEASONAL WATER TABLE - 0"-6" FLOODING POTENTIAL- FREQUENT HYDROLOGIC GROUP-D

**MkF**  
 TYPE: MANOR SOILS  
 DESCRIPTION: MODERATELY DEEP, WELL DRAINED SLOPES RANGE FROM 35-60% PERMEABILITY IS MODERATE SEASONAL WATER TABLE - >80" FLOODING POTENTIAL- NONE HYDROLOGIC GROUP-B

**LEGEND**

- DELINEATED WETLANDS
- LIMITS OF DISTURBANCE
- PROTECTIVE SILT FENCE - 18"
- GnB2** SOIL TYPES
- NPDES PERMIT BOUNDARY
- EXISTING CONTOURS
- PROPOSED CONTOURS

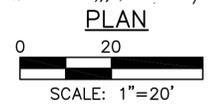
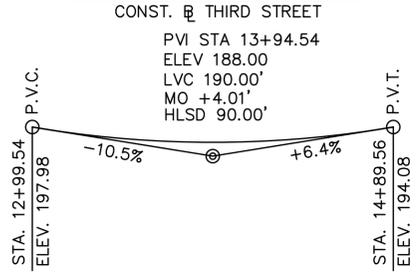
**HYDRAULIC DATA:**

DRAINAGE AREA= 0.55 SQ. MI.  
 DESIGN FLOOD:  
 FREQUENCY= 25 YEARS  
 MAGNITUDE= 2200 CFS  
 PERT. W.S. ELEV.= 195.2  
 100 YEAR FLOOD RISK ASSESSMENT:  
 MAGNITUDE= 1362 CFS  
 VELOCITY= 9.6FPS  
 PERT. W.S. ELEV.= 193.5  
 FLOOD OF RECORD= UNKNOWN

**HORIZONTAL CURVE DATA:**

CONST. @ THIRD STREET  
 NO HORIZONTAL CURVE

**VERTICAL CURVE DATA:**



TEMPORARY CONSTRUCTION EASEMENT. AN EASEMENT TO USE THE LAND AS NECESSARY DURING CONSTRUCTION OF THE PROJECT. THE EASEMENT IS REQUIRED ONLY UNTIL THE CONSTRUCTION OR WORK INDICATED BY THE PLAN IS COMPLETED, UNLESS SOONER RELINQUISHED IN WRITING BY THE DEPARTMENT.

**STREAM IMPACT**

TOTAL LENGTH = 184 FEET  
 TOTAL SF = 2,944 SF

PREPARED BY  
 LARSON DESIGN GROUP  
 901 DAWN AVENUE  
 EPHRATA, PA. 17522

2011

QUENTIN D. RISSLER, P.E.

**EROSION AND SEDIMENT POLLUTION CONTROL  
CONSTRUCTION PROCEDURES**

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE			2 OF 4
BOROUGH OF MEDIA				
REVISION NUMBER	REVISIONS			DATE BY

- OBSERVE THE APPLICABLE FOLLOWING PROCEDURES DURING THE ENTIRE PERIOD OF CONSTRUCTION AS DIRECTED.
- THE EROSION AND SEDIMENT POLLUTION CONTROL DETAILS SHOWN ON THE PLANS AND CONTAINED IN THE BID DOCUMENTS HAVE REVIEWED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR CONFORMITY WITH CHAPTER 102 REGULATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ALTER THE E&S DETAILS SHOWN TO FIT FIELD CONDITIONS ENCOUNTERED AND TO ACCOUNT FOR THE CONTRACTORS METHOD OF OPERATIONS. PRIOR APPROVAL MUST BE OBTAINED FOR ANY ALTERATIONS PROPOSED PER THE CONTRACT DOCUMENTS.
  - CONDUCT ALL OPERATIONS AS SPECIFIED IN THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN AND IN SUCH A MANNER TO MINIMIZE TURBIDITY IN STREAMS. DO NOT DISCHARGE WATER CONTAINING SEDIMENTS FOR POLLUTANTS INTO THE STREAMS.
  - ANY PUMPING OF SEDIMENT LADEN WATER SHALL BE FILTERED THROUGH THE PUMPED WATER FILTER BAG.
  - DIRECT FLOWING WATER AWAY FROM PROJECT CONSTRUCTION AREAS.
  - LIMIT MOVEMENT OF EQUIPMENT THROUGH THE STREAMBED IN ACCORDANCE WITH THE APPROVED PLAN SO AS TO PREVENT UNNECESSARY SILTATION OR DISTURBANCE.
  - SEED AND MULCH AND/OR STABILIZE ALL STREAM BANKS IMMEDIATELY UPON COMPLETION OF GRADING IN ACCORDANCE WITH PENNDOT PUB. 408/2007.
  - UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE SITE OF THE DISTURBANCE SHALL BE IMMEDIATELY STABILIZED.
  - ONLY LIMITED DISTURBANCES WILL BE PERMITTED TO PROVIDE ACCESS TO EROSION AND SEDIMENT POLLUTION CONTROL MEASURES.
  - CONTROL THE ENTIRE GRADING AREA AT ALL TIMES DURING CONSTRUCTION BY PLACING THE EROSION AND SEDIMENT POLLUTION CONTROL DEVICES THAT CAN BE INSTALLED PRIOR TO DISTURBING THE EARTH AND THE STABILIZATION DEVICES AS SOON AS THE REQUIRED EARTHWORK HAS BEEN PERFORMED.
  - PREVENT EROSION OF EXCAVATION STOCKPILES IN ACCORDANCE WITH ITEM 7 ABOVE. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
  - UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT POLLUTION CONTROLS MUST BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. CLEAN THE SEDIMENTATION STRUCTURES IN ACCORDANCE WITH PENNDOT PUB. 408/2007 SECTION 861, OR AS DIRECTED BY THE ENGINEER. DISPOSE OF SILT FENCE AND SEDIMENTS REMOVED FROM THE PROJECT IN ACCORDANCE WITH PENNDOT PUB. 408/2007. PRIOR TO COMMENCEMENT OF WORK, NOTIFY THE COUNTY CONSERVATION DISTRICT OF THE LOCATION OF ALL DISPOSAL SITES AND THE METHOD OF DISPOSAL.
  - SEPERATE ALL WATER ORIGINATING OUTSIDE OF THE PROJECT FROM THAT ORIGINATING WITHIN.
  - DURING THE LIFE OF THE CONTRACT, THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL TO BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EROSION AND SEDIMENT POLLUTION CONTROL DEVICES IN ACCORDANCE WITH THE SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE COUNTY CONSERVATION DISTRICT WITH THE NAME AND PHONE NUMBER OF THIS INDIVIDUAL.
  - THE CONTRACTOR IS RESPONSIBLE FOR BREACHING OR REMOVING THE DIVERSION DIKE SYSTEM DURING PERIODS OF HIGH WATER.
  - SEED ALL BORROW AND WASTE AREAS IN ACCORDANCE WITH THE APPROVED PLANS AND WITH ITEM 6 ABOVE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM THE COUNTY CONSERVATION DISTRICT FOR ANY BORROW AND WASTE AREAS PRIOR TO THEIR USE.
  - ANY EROSION AND SEDIMENT POLLUTION CONTROLS REQUIRED OR NECESSARY TO PROTECT AREAS FROM EROSION DURING THE STABILIZATION PERIOD MUST BE MAINTAINED UNTIL PERMANENT STABILIZATION IS ACHIEVED.
  - AFTER PERMANENT STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY. VEGETATED AREAS ARE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED, OR THE DISTURBED AREA IS COVERED WITH AN ACCEPTABLE BMP WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.
  - THE COUNTY CONSERVATION DISTRICT IS TO BE NOTIFIED PRIOR TO COMMENCEMENT AND UPON COMPLETION OF THE PROJECT.

**SUGGESTED CONSTRUCTION SEQUENCE**

- INSTALL SILT BARRIER FENCE AS INDICATED ON THE PLAN.
- CONSTRUCT PUMPED WATER FILTER BAG AS INDICATED. INSURE PROPER DRAINAGE OCCURS FROM THE PUMPED WATER FILTER BAG TO THE STREAM.
- EXCAVATE AS REQUIRED FOR NEW CONSTRUCTION OF BOX CULVERT.
- INSTALL TEMPORARY SUPPORT OF EXCAVATION AND CONSTRUCT THE PROPOSED WALL.
- INSTALL BOX CULVERT AND BACKFILL.
- REMOVE THE EXISTING CULVERT STRUCTURE.
- CONSTRUCT AND PAVE THE NEW ROADWAY.
- GRADE AND CONTOUR THE ENTIRE PROJECT AREA AS INDICATED.
- SEED AND MULCH ALL DISTURBED AREAS.
- ONCE THE PERMANENT SEEDING IS ESTABLISHED, REMOVE AND PROPERLY DISPOSE EROSION AND SEDIMENT POLLUTION CONTROLS.

**ALTERNATE EROSION AND SEDIMENT POLLUTION CONTROL PLAN**

- COMPLY WITH THESE REQUIREMENTS WHEN SUBMITTING AN ALTERNATE PLAN FOR ACCOMPLISHING EQUAL OR BETTER TEMPORARY AND PERMANENT EROSION AND SEDIMENT POLLUTION CONTROL. DO NOT START WORK UNTIL THE ALTERNATE EROSION AND SEDIMENT POLLUTION CONTROL PLAN, SCHEDULES, AND OPERATION METHODS HAVE BEEN APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND/OR THE COUNTY CONSERVATION DISTRICT, AS APPLICABLE.
- APPLY FOR ANY EARTH DISTURBANCE PERMITS OR PERMIT AMMENDMENTS NOT INCLUDED IN THE PROPOSAL DOCUMENTS THAT ARE REQUIRED BECAUSE OF THE NATURE OF THE CONTEMPLATED CONSTRUCTION PROCEDURES.
- PREPARE AND FURNISH, WITH THE APPLICATIONS, PLANS AND DOCUMENTS THAT ARE REQUIRED BY THE DEPARTEMNT OF ENVIRONMENTAL PROTECTION OR THE COUNTY CONSERVATION DISTRICT.
- PROVIDE SIMULTANEOUSLY TO THE ENGINEER A COPY OF ALL PLANS AND DOCUMENTS THAT AFFECT THE CONSTRUCTION REQUIREMENTS.
- PROVIDE IMMEDIATELY TO THE ENGINEER ANY MODIFICATIONS THAT ARE MADE TO THE PLANS AND DOCUMENTS THAT ARE REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION OR THE COUNTY CONSERVATION DISTRICT.
- OBTAIN A PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PRIOR TO BEGINNING ANY WORK WHEN A PERMIT IS REQUIRED, AND THE APPROVAL OF THE COUNTY CONSERVATION DISTRICT WHEN A PERMIT IS NOT REQUIRED.
- ACQUIRE AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE THAT ARE NECESSARY FOR EROSION AND SEDIMENT POLLUTION CONTROL. PROCEED WITH THE AGREEMENT PROCEDURE DESCRIBED IN PENNDOT PUB. 408/2007 SECTION 105.14 (BORROW AREAS AND WASTE AREAS)

**RECYCLING OR DISPOSAL OF MATERIAL**

- USE SUITABLE EXCAVATED MATERIAL ON THE PROJECT IN ACCORDANCE WITH PENNDOT'S PUBLICATION 408.
- RECYCLE WASTE MATERIAL IF POSSIBLE.
- DISPOSE OF EXCESS OR UNSUITABLE MATERIAL PROPERLY OFF SITE AND SEED AND MULCH IN ACCORDANC WITH THE RATES SPECIFIED BY PENNDOT'S PUBLICATION 408.

**SEEDING AND MULCHING RECOMMENDATIONS**

IN ACCORDANCE WITH PENNDOT PUB. 408/2007, SECTION 804 AND 805, SUMMARIZED AS FOLLOWS:

FORMULA AND SPECIES	% BY WEGHT	MINIMUM %		MAX. % WEED SEED	SEEDING RATE LBS. PER 1000 SY
		PURITY	GERMINATION		
FORMULA D (PERMANENT SEED) • TALL FESCUE (FESTUCA ARUNDINECA VAR. KENTUCKY 31) • CREEPING RED FESCUE OR CHEWINGS FESCUE.	70 30	98 98	85 85	0.15 0.15	21.0 TOTAL 15.0 6.0
FORMULA E (TEMPORARY SEED) • ANNUAL RYEGRASS (LOLIUM MULTIFLORIUM)	100	98	90	0.15	10.0 TOTAL 10.0

**SEEDING SCHEDULE**

SPREAD SEEDS WHERE INDICATED AND AT THE RATES SPECIFIED IN ABOVE TABLE, OR AS OTHERWISE INDICATED. SPREAD SEEDS WITHIN THE FOLLOWING DATES, OR AS OTHERWISE INDICATED OR DIRECTED.

- FORMULA D - MARCH 15 TO JUNE 1  
AUGUST 1 TO OCTOBER 15
- FORMULA E - MARCH 15 TO OCTOBER 15

**MULCHING PER 1000 SY**

- STRAW 1200 LBS.
- WOOD FIBER 160 LBS.

**SOIL SUPPLEMENTS PER 1000 SY**

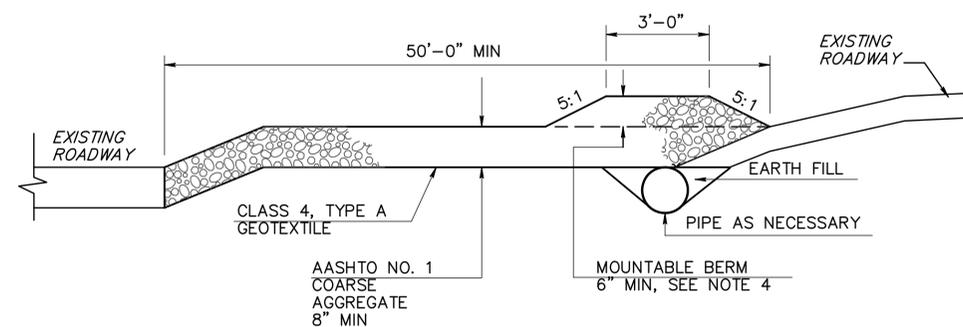
- PULVERIZED AGRICULTURAL LIMESTONE 800 LBS.
- 10-20-20 ANALYSIS COMMERCIAL FERTILIZER 140 LBS.
- 38-0-0 UREAFORM FERTILIZER 50 LBS.
- OR
- 32-0-0 TO 38-0-0 SULFUR COATED UREA FERTILIZER 59LBS. TO 50 LBS. (AS DIRECTED)
- OR
- 31-0-0 IBDU FERTILIZER 61 LBS.

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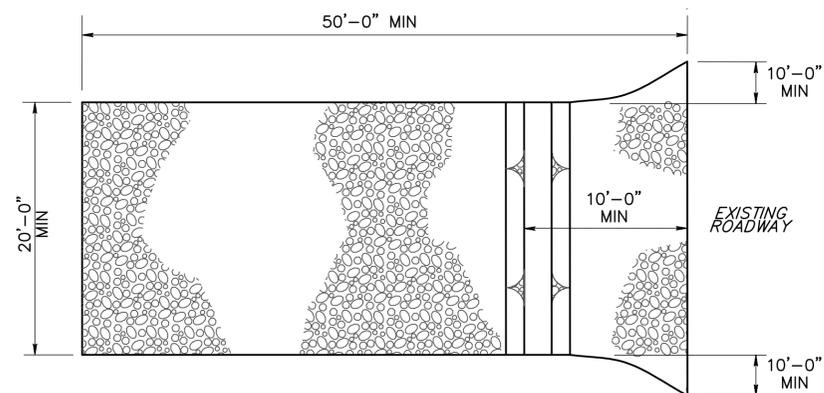
2011

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE			3 OF 4
BOROUGH OF MEDIA				
REVISION NUMBER	REVISIONS			DATE BY

**ROCK CONSTRUCTION ENTRANCE**



**PROFILE**  
NO SCALE

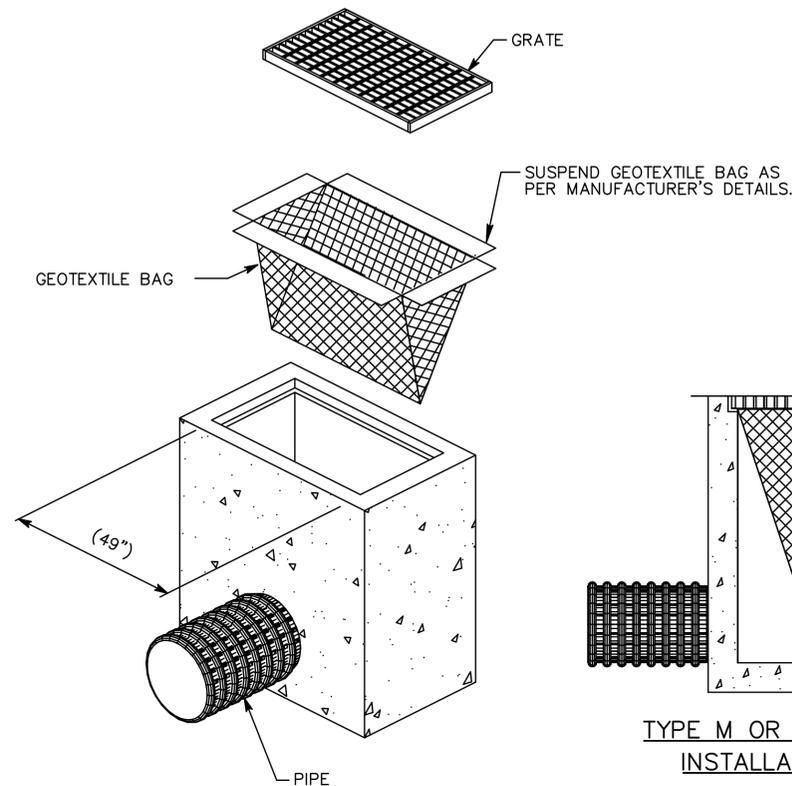


**PLAN**  
NO SCALE

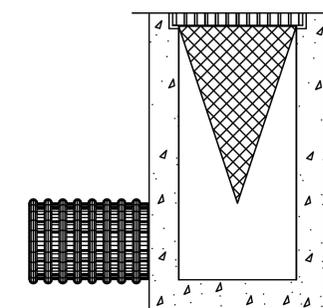
**NOTES**

1. INSPECT THE ENTRANCE DAILY. REMOVE ALL SEDIMENT DEPOSITED ON THE PUBLIC ROADWAYS AND RETURN TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WILL NOT BE PERMITTED.
2. MAINTAIN THE SPECIFIED ROCK CONSTRUCTION ENTRANCE THICKNESS. PLACE ADDITIONAL ROCK WHENEVER ROCK BECOMES CLOGGED WITH SEDIMENT.
3. MAINTAIN STOCKPILE OF AASHTO NO.1 COARSE AGGREGATE.
4. CONSTRUCT A MOUNTABLE BERM ONLY WHEN 6" MIN COVER CANNOT BE PROVIDED OVER THE PIPE.
5. SATISFACTORILY REMOVE MATERIALS AS PER SPECIFICATION IN SECTION 849 WHEN ROCK CONSTRUCTION ENTRANCE IS NO LONGER NEEDED.
6. PROVIDE GEOTEXTILE MATERIAL MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 735. FURNISH AND INSTALL IN ACCORDANCE WITH SECTION 212. PROVIDE GEOTEXTILE ALONG ALL INTERFACE AREAS WITH GROUND CONTACT.
7. CONSTRUCT ROCK CONSTRUCTION ENTRANCE WITHIN THE RIGHT-OF-WAY OR EASEMENT AREAS.

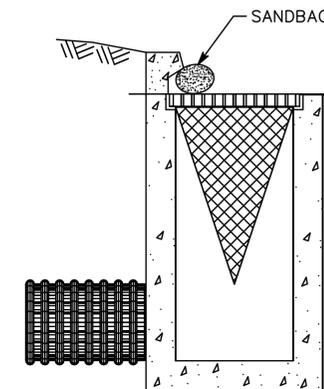
**INLET FILTER BAG**



**ISOMETRIC VIEW**



**TYPE M OR TYPE S INLET  
INSTALLATION (TYP)**



**TYPE C INLET  
INSTALLATION (TYP)**

**SIDE VIEW**

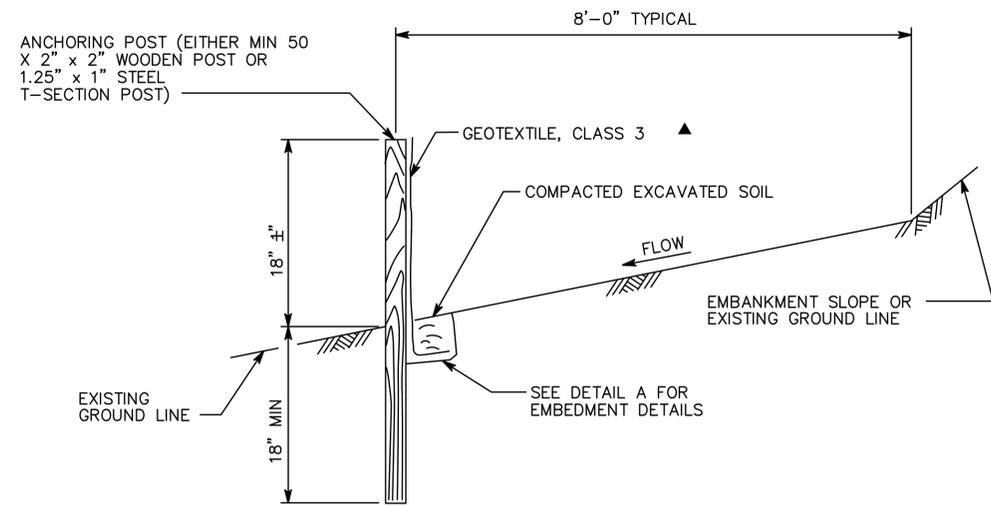
**NOTES**

1. INSPECT INLET FILTER BAG AFTER EACH RUNOFF EVENT. MAINTAIN AS REQUIRED TO ENSURE PROPER FUNCTIONING OF THE BAG.
2. REMOVE ACCUMULATED SEDIMENT/DEBRIS WHEN THE INLET FILTER REACHES ONE-HALF MAXIMUM CAPACITY.
3. REPLACE FILTER BAG IF RIPPED OR TORN.
4. PROVIDE DOWN GRADIENT BERM AS INDICATED ON SHEET 1. DO NOT USE IN SAG/SUMP CONDITIONS.
5. USE SANDBAGS AT TYPE C INLET CURB OPENINGS TO PREVENT BYPASS FLOW.
6. REMOVE AND PROPERLY DISPOSE OF INLET FILTER BAG WHEN NO LONGER NEEDED.

PREPARED BY  
LARSON DESIGN GROUP  
901 DAWN AVENUE  
EPHRATA, PA. 17522

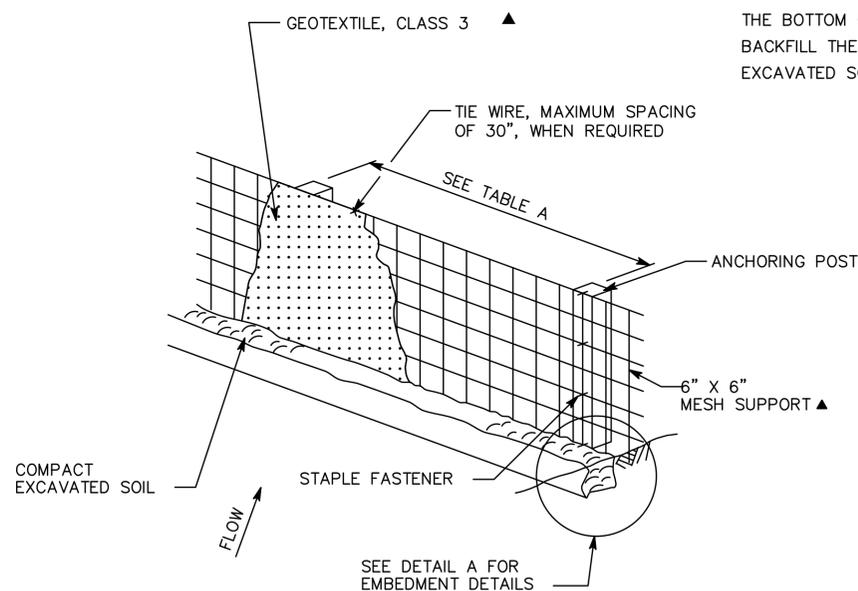
2011

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE			4 OF 4
BOROUGH OF MEDIA				
REVISION NUMBER	REVISIONS			DATE



**SILT BARRIER FENCE, 18" HEIGHT**

▲ SEE TABLE A



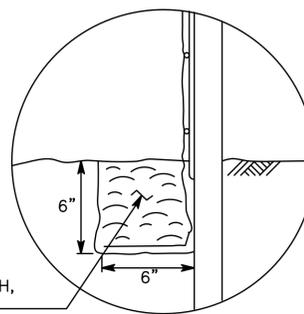
**SILT BARRIER FENCE**

▲ SEE TABLE A

**TABLE A  
GEOTEXTILE SELECTION**

SILT BARRIER FENCE, HEIGHT	TYPE OF CLASS 3 GEOTEXTILE MATERIAL	NOMINAL GEOTEXTILE HEIGHT	POST SPACING WITHOUT MESH SUPPORT	MAX POST SPACING WITH MESH SUPPORT
18"	3A	30"	8'-0"	NA

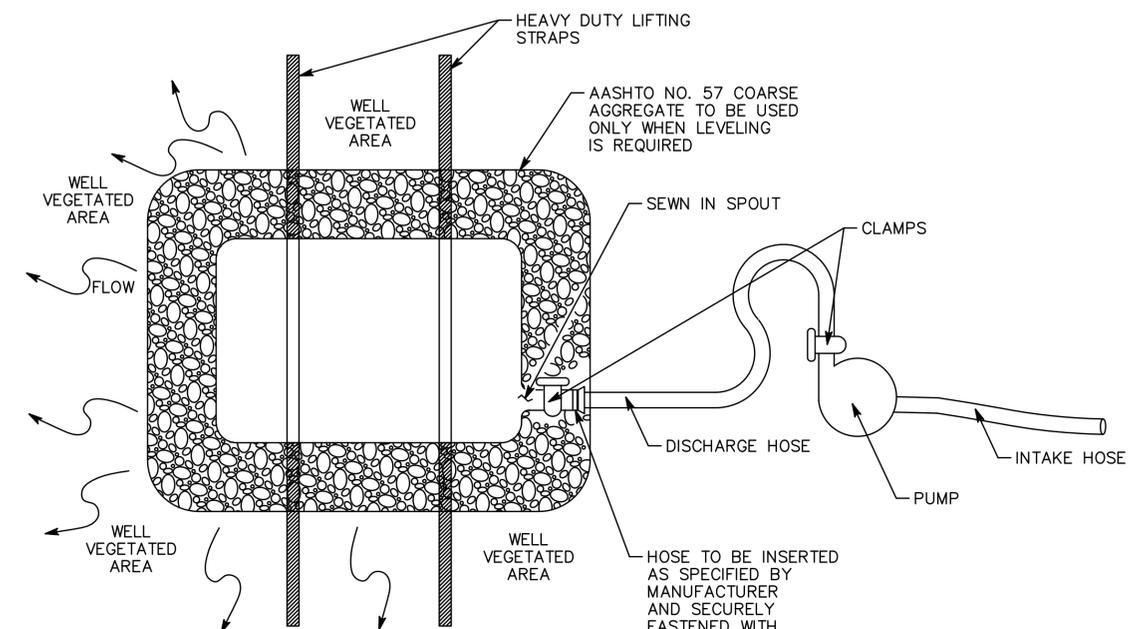
EXTEND GEOTEXTILE A MINIMUM OF 6" INTO EXCAVATED TRENCH AND A MINIMUM OF 6" ALONG THE BOTTOM OF THE EXCAVATED TRENCH, BACKFILL THE TRENCH WITH THE EXCAVATED SOIL, AND COMPACT



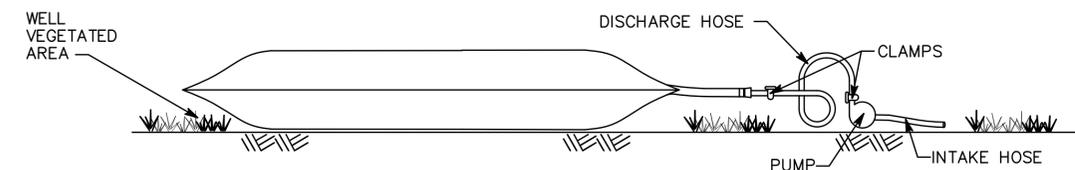
**DETAIL A**

**PUMPED WATER FILTER BAG**

NO SCALE



**TOP VIEW**



**SIDE VIEW**

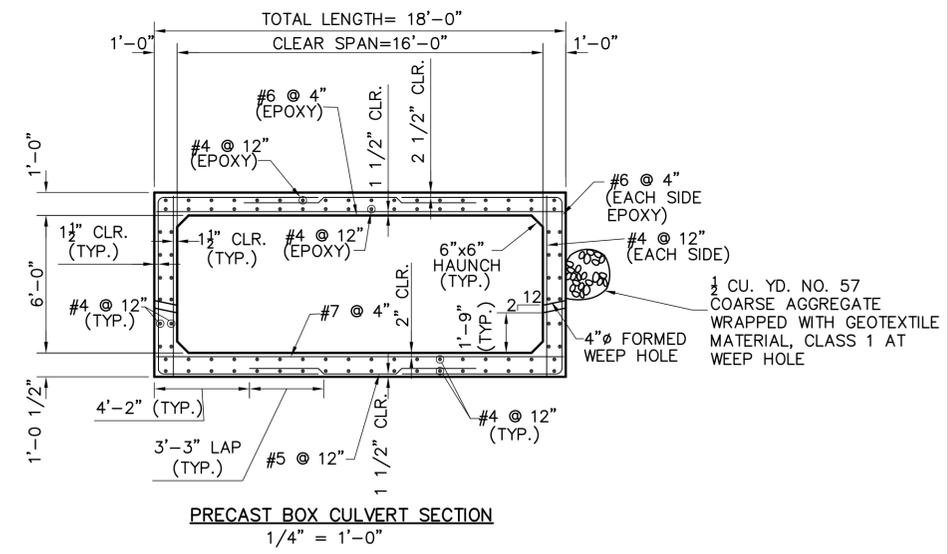
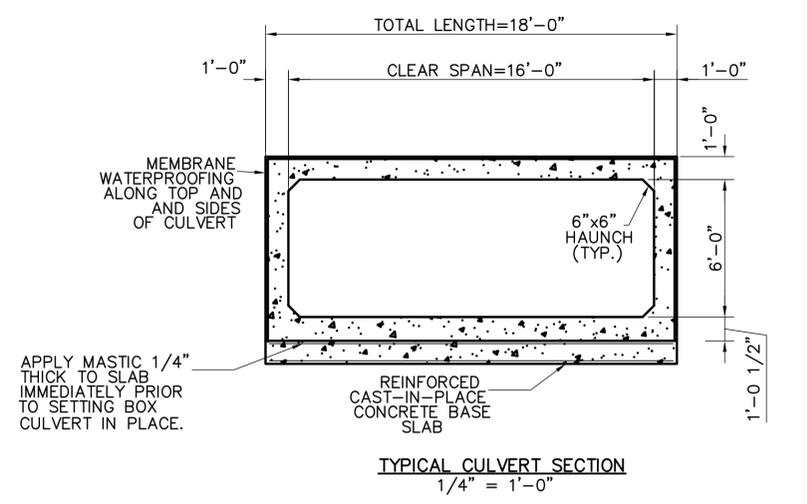
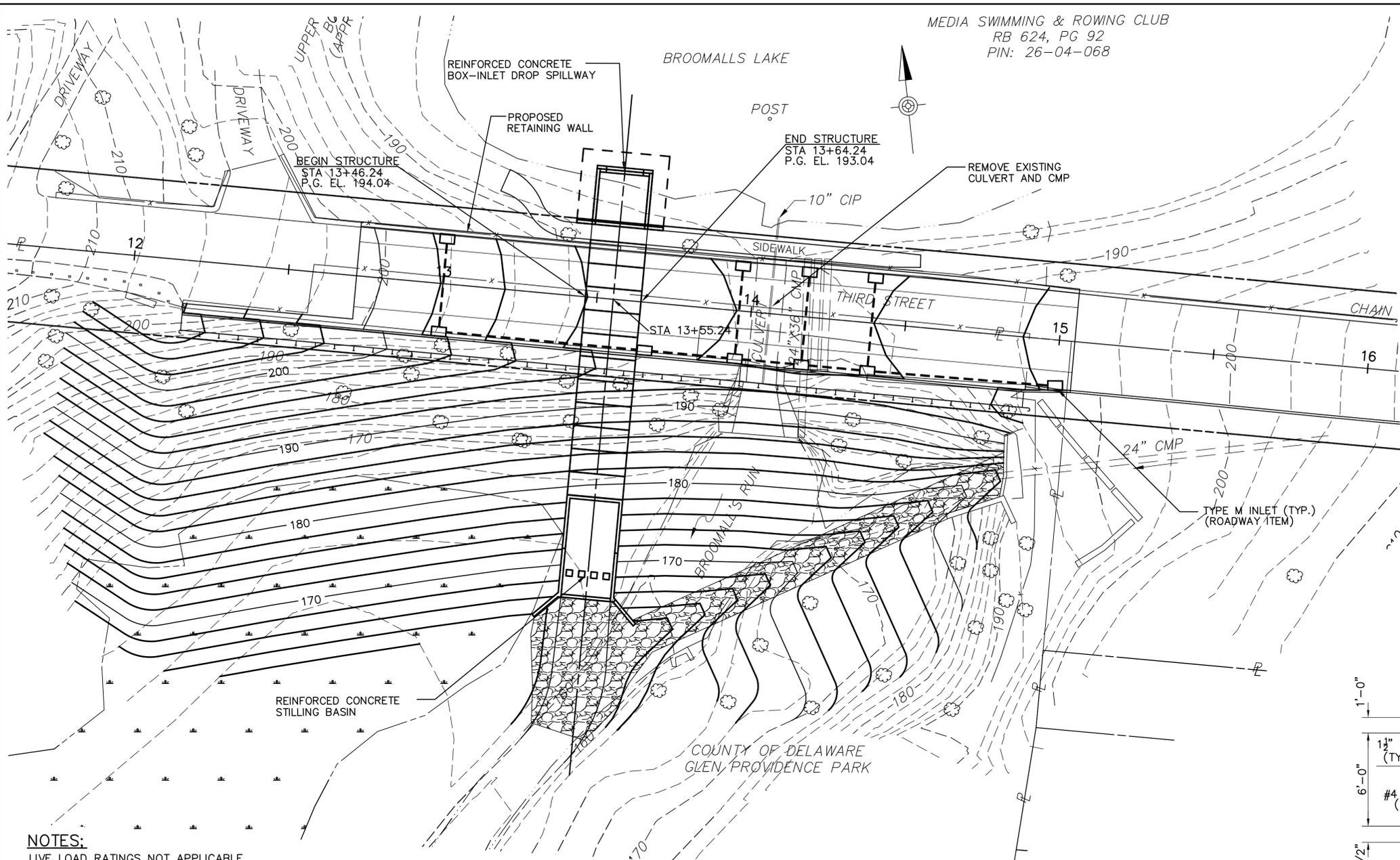
**NOTES**

1. LOCATE BAG IN LEVEL AREAS (LESS THAN 5% GRADE). WHEN LEVEL AREAS ARE NOT AVAILABLE, PLACE AASHTO NO. 57 COARSE AGGREGATE TO LEVEL THE BAG.
2. LOCATE BAG IN A WELL VEGETATED AREA. DISCHARGE ONTO A STABLE, EROSION RESISTANT AREA. WHEN VEGETATED AREA IS NOT AVAILABLE, PROVIDE A GEOTEXTILE (CLASS 4, TYPE A) LINED FLOW PATH TO A STABLE EROSION RESISTANT RECEIVING WATER COURSE OR A WELL VEGETATED AREA.
3. LOCATE BAG IN AN AREA ACCESSIBLE BY EQUIPMENT FOR MAINTENANCE AND REMOVAL PURPOSES.
4. DO NOT INSERT MORE THAN ONE HOSE INTO A BAG.
5. REPLACE THE BAG WHEN 50% OF THE SEDIMENT CAPACITY HAS BEEN FILLED AND/OR WHEN THERE IS A FAILURE. THE ADDITIONAL BAGS WILL BE PAID AS EACH.
6. REMOVE AND PROPERLY DISPOSE OF THE PUMPED WATER FILTER BAGS. RESTORE THE AREA IN ACCORDANCE WITH THE SPECIFICATIONS IN PUBLICATION 408. DO NOT CUT FILTER BAG OR DISTRIBUTE AND SEED SEDIMENT.
7. DO NOT PERMIT DISCHARGE FROM THE BAG TO DRAIN BACK INTO WORK OR ACCESS AREAS OF THE PROJECT.

PREPARED BY  
LARSON DESIGN GROUP  
901 DAWN AVENUE  
EPHRATA, PA. 17522

2011

MEDIA SWIMMING & ROWING CLUB  
 RB 624, PG 92  
 PIN: 26-04-068



**NOTES:**  
 LIVE LOAD RATINGS NOT APPLICABLE  
 SINCE THE DEPTH OF FILL IS MORE  
 THAN 8.0' AND EXCEEDS THE SPAN  
 LENGTH.

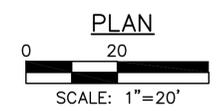
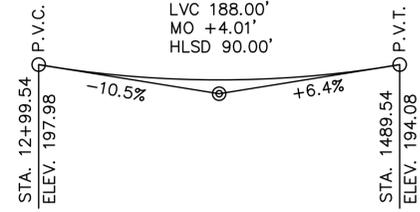
**HYDRAULIC DATA:**  
 DRAINAGE AREA= 0.55 SQ. MI.  
 DESIGN FLOOD:  
 FREQUENCY=25 YEAR  
 MAGNITUDE= 2200 CFS  
 PERT. W.S. ELEV.= 195.2  
 100 YEAR FLOOD RISK ASSESSMENT:  
 MAGNITUDE= 1362 CFS  
 VELOCITY= 9.6 FPS  
 PERT. W.S. ELEV.= 193.5  
 FLOOD OF RECORD= NONE

**HORIZONTAL CURVE DATA:**  
 CONST. @ THIRD STREET  
 NO HORIZONTAL CURVE

**VERTICAL CURVE DATA:**  
 CONST. @ THIRD STREET  
 PVI STA 13+94.54  
 ELEV 188.00  
 LVC 188.00'  
 MO +4.01'  
 HLSD 90.00'

**SOIL BORING INFORMATION**

BORING	STATION	OFFSET
B-1	5+60	44'-0" R
B-2	5+40	44'-0" R
B-3	5+50	12'-0" R
B-4	5+60	91'-0" L
B-5	5+39	91'-0" L
B-6	5+80	12'-0" R



INDEX OF DRAWINGS	
SHEET	DESCRIPTION
1	GENERAL PLAN & BOX SECTION
2	GEN. NOTES AND SECTION
3	END SECTIONS AND DETAILS
4	WALL DETAILS
5	REINFORCEMENT BAR SCHEDULE

SURVEY PROVIDED BY:

STRUCTURAL CULVERT  
 DESIGN PREPARED BY:

LARSON DESIGN GROUP  
 901 DAWN AVENUE  
 EPHRATA, PA. 17522  
 PHONE: 717-721-9008  
 FAX: 717-721-5643

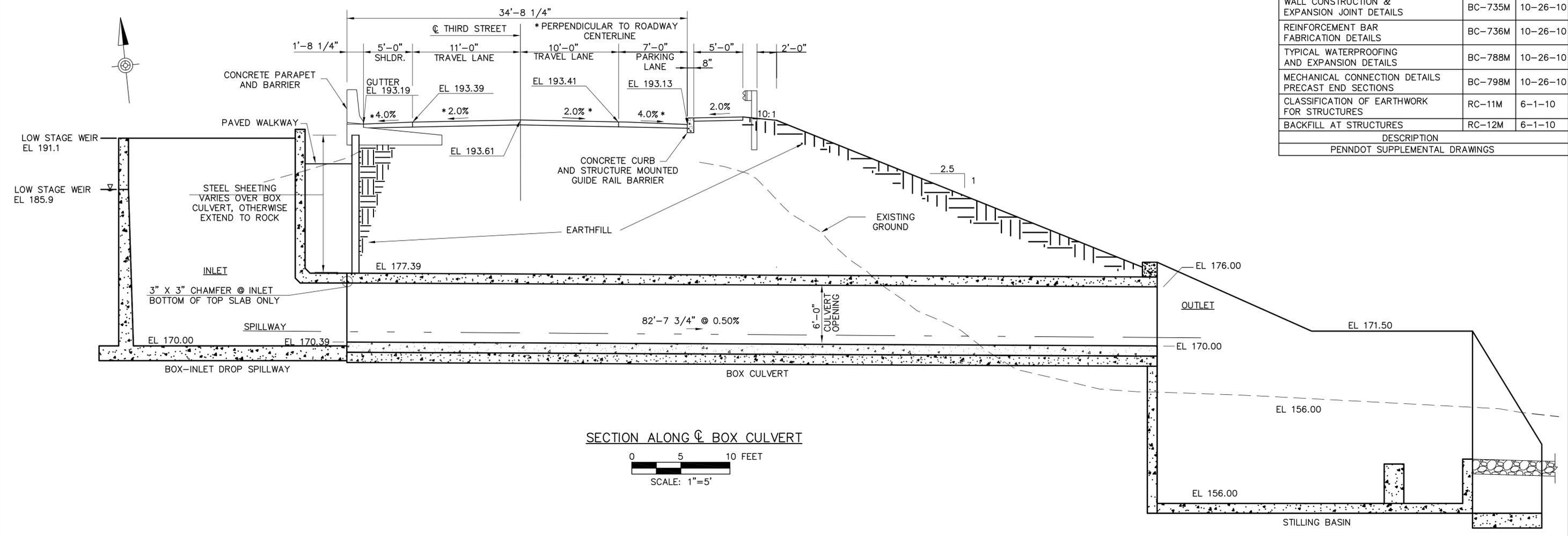
BOROUGH OF MEDIA  
 DELAWARE COUNTY, PENNSYLVANIA

THIRD STREET DAM/ BRIDGE UPGRADE  
 STA 13+55.24  
 OVER BROOMALL'S RUN  
 PRECAST CONCRETE BOX CULVERT

**GENERAL PLAN AND SECTION**

SHEET 1 OF \_\_

R.C. BOX CULVERT	BD-632M	9-20-10
ANCHOR SYSTEMS	BC-734M	10-26-10
WALL CONSTRUCTION & EXPANSION JOINT DETAILS	BC-735M	10-26-10
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	10-26-10
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	10-26-10
MECHANICAL CONNECTION DETAILS PRECAST END SECTIONS	BC-798M	10-26-10
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	6-1-10
BACKFILL AT STRUCTURES	RC-12M	6-1-10
DESCRIPTION		
PENNDOT SUPPLEMENTAL DRAWINGS		



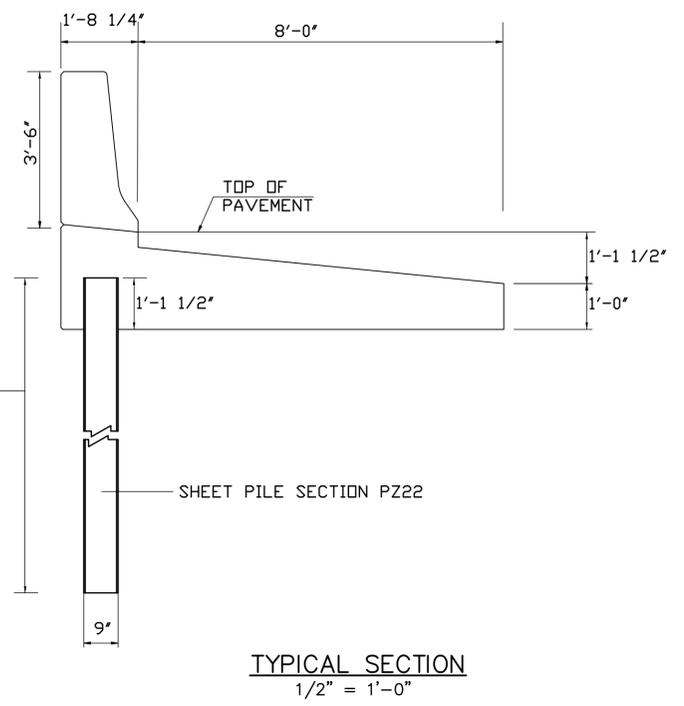
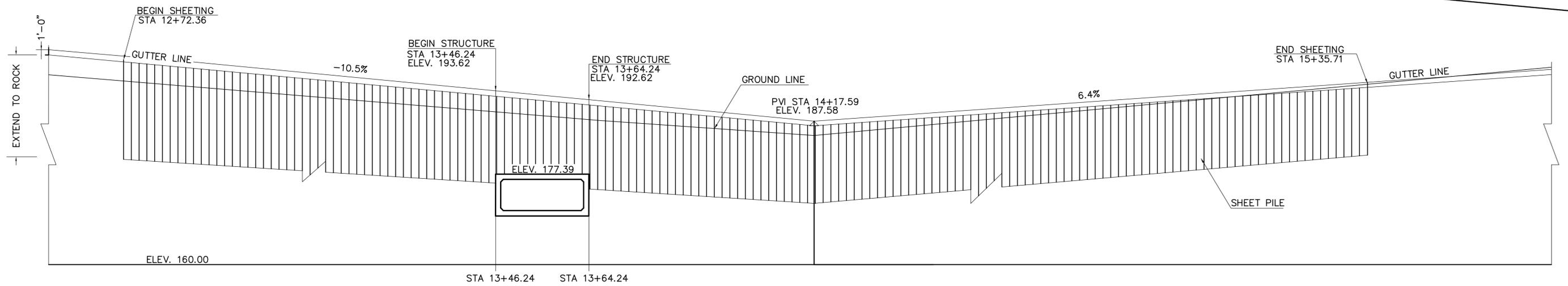
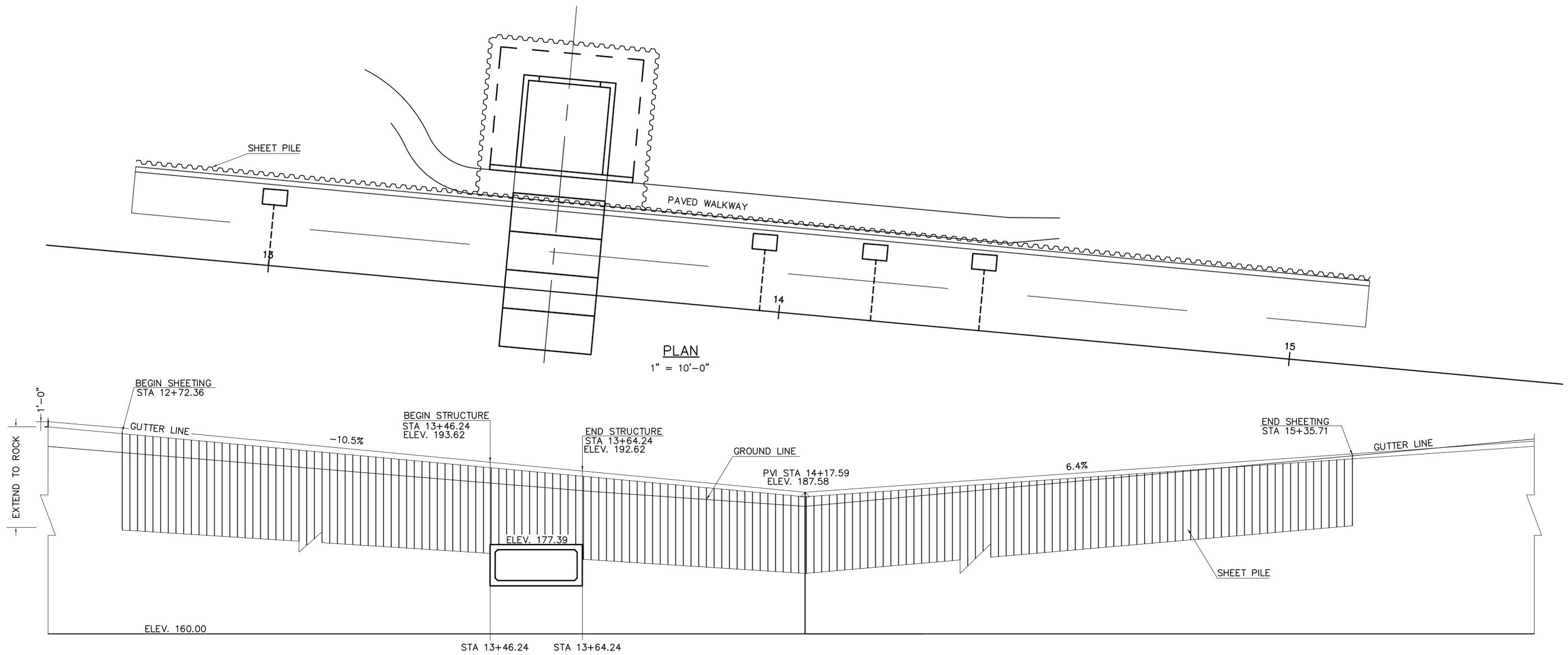
**GENERAL NOTES**

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2004 AND AS SUPPLEMENTED BY THE DESIGN MANUAL, PART 4 SEPTEMBER, 2007 EDITION.,
2. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2007, ANSI/AASHTO/AWS D1.5M/D1.5-2002 BRIDGE WELDING CODE (USE AASHTO/AWS D1.1/D1.1M-2002 FOR WELDING NOT COVERED IN ANSI/AASHTO/AWS D1.5M/D1.5-2002), AND CONTACT SPECIAL PROVISIONS.
3. DESIGN IS IN ACCORDANCE WITH THE LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD).
4. LIVE LOADS: PHL-93 AND P-82 (204K PERMIT LOAD) WITH THE AASHTO GROUP 1B LOADING.
5. DESIGN FILL WEIGHT OVER BOX CULVERT = 125 PCF.
6. ALL DIMENSIONS SHOWN ARE HORIZONTAL EXCEPT AS NOTED.
7. PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A615/A615M, A996/A996M OR A706/A706M. DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. GRADE 40 REINFORCING STEEL BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA, IF APPROVED BY THE CHIEF BRIDGE ENGINEER. DO NOT USE RAIL STEEL A996/A996, REINFORCEMENT BARS IN FOOTING, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.
8. PROVIDE MINIMUM LAP AND EMBEDMENT LENGTH OF 30 DIAMETERS OR IN ACCORDANCE WITH AASHTO 2006 AS MODIFIED BY DM-4, WHICHEVER IS GREATER.
9. USE EPOXY-COATED REINFORCEMENT BARS IN THE BOX CULVERT.
10. CHAMFER EXPOSED CONCRETE EDGES 1 INCH BY 1 INCH EXCEPT AS NOTED.
11. USE CLASS AAA CEMENT CONCRETE IN REINFORCED CONCRETE BOX CULVERTS.
12. RAKE FINISH ALL HORIZONTAL CONSTRUCTION JOINTS EXCEPT AS INDICATED.
13. USE CLASS AA CEMENT CONCRETE IN HEADWALLS AND CURBS.
14. A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE DEPARTMENT.
15. DO NOT EXCEED A 2' DIFFERENCE IN FILL ELEVATION ON THE SIDES DURING PLACEMENT OF THE BACKFILL. DO NOT ALLOW THE WHEELS OF THE ROLLERS TO COME CLOSER THAN 1' TO THE FACE OF THE STRUCTURE DURING COMPACTION OF THE BACKFILL.
16. COORDINATE, LOCATE AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408/2007 SECTIONS 105.06 AND 107.12.
17. NOTIFY THE REGIONAL HEADQUARTERS OF THE FISH AND BOAT COMMISSION PRIOR TO CONSTRUCTION AND COOPERATE WITH THE FISH AND BOAT COMMISSION DURING CONSTRUCTION.  
SOUTHEAST REGION  
BOX 9  
ELM, PA 17521  
PHONE: (717) 626-0228
18. THOROUGHLY COAT ALL SURFACES OF THE BASE PLATES IN CONTACT WITH CONCRETE WITH CAULKING COMPOUND PRIOR TO ERECTION. AFTER ERECTION AND ALIGNMENT, SEAL OPENINGS BETWEEN THE METAL SURFACES AND THE CONCRETE WITH THE CAULKING COMPOUND MEETING THE REQUIREMENTS OF SECTION 705, PUB. 408/2007.
19. GALVANIZED REINFORCING STEEL MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.
20. ANY UNSUITABLE BEARING MATERIALS SHOULD BE UNDERCUT DOWN TO COMPETENT MATERIAL AND REPLACED WITH NO. 2A COARSE AGGREGATE. ANY EXCAVATION REQUIRED IS INCIDENTAL TO BOX STRUCTURE, AS DESIGNED, S-25839A.
21. REMOVE EXISTING STRUCTURE TO 2' BELOW THE EXISTING GROUND LINE OR STREAM BED. IN AREAS WHERE THERE IS A CONFLICT WITH PROPOSED CONSTRUCTION, REMOVE THE EXISTING STRUCTURE IN ITS ENTIRETY.
22. APPLY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALER) TO TOP OF BOTTOM SLAB AND INSIDE FACE OF BOX WALLS.

**BOROUGH OF MEDIA  
DELAWARE COUNTY, PENNSYLVANIA**

**THIRD STREET DAM/ BRIDGE UPGRADE  
STA 13+55.24  
OVER BROOMALL'S RUN  
PRECAST CONCRETE BOX CULVERT  
GENERAL NOTES AND SECTION**

SHEET 2 OF



BOROUGH OF MEDIA DELAWARE COUNTY, PENNSYLVANIA	
THIRD STREET DAM/ BRIDGE UPGRADE STA 13+55.24 OVER BROOMALL'S RUN PRECAST CONCRETE BOX CULVERT	
WALL DETAILS	
	SHEET 3 OF ___

THIRD STREET  
BOROUGH OF MEDIA  
DELAWARE COUNTY, PENNSYLVANIA  
STA 11+00.00 TO STA 16+00.00 (LIMITS OF WORK)  
TOTAL SHEETS 8

CROSS SECTIONS

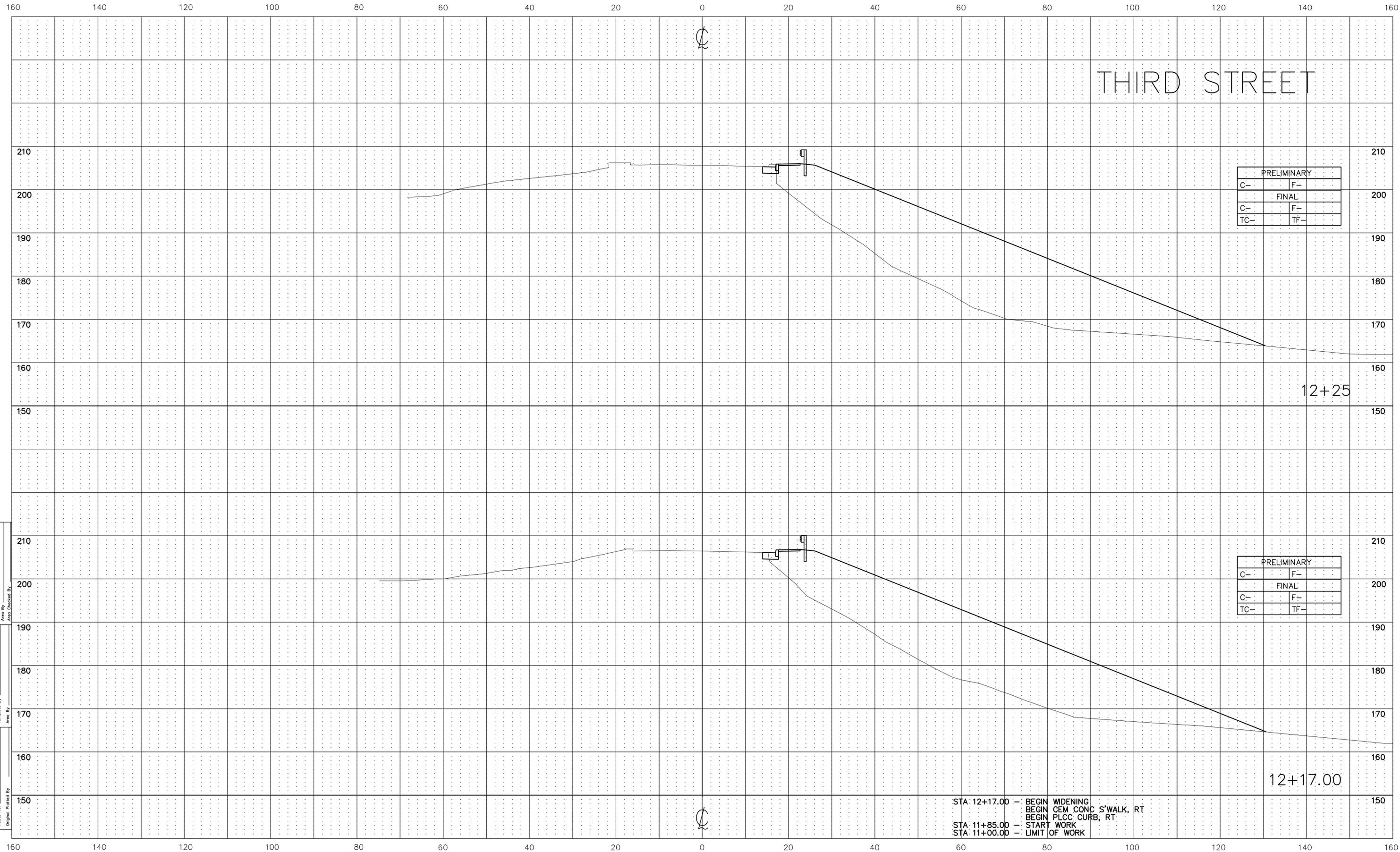
STA 12+17.00 TO STA 15+05.00  
SHEETS 2 THRU 8

PREPARED BY:  
LARSON DESIGN GROUP, INC.  
901 DAWN AVENUE  
EPHRATA, PA 17522

*PRELIMINARY  
DRAWING  
OR  
INFORMATION*

*This drawing and/or information shall be  
used for reference purposes only, as details  
and content are subject to change.*

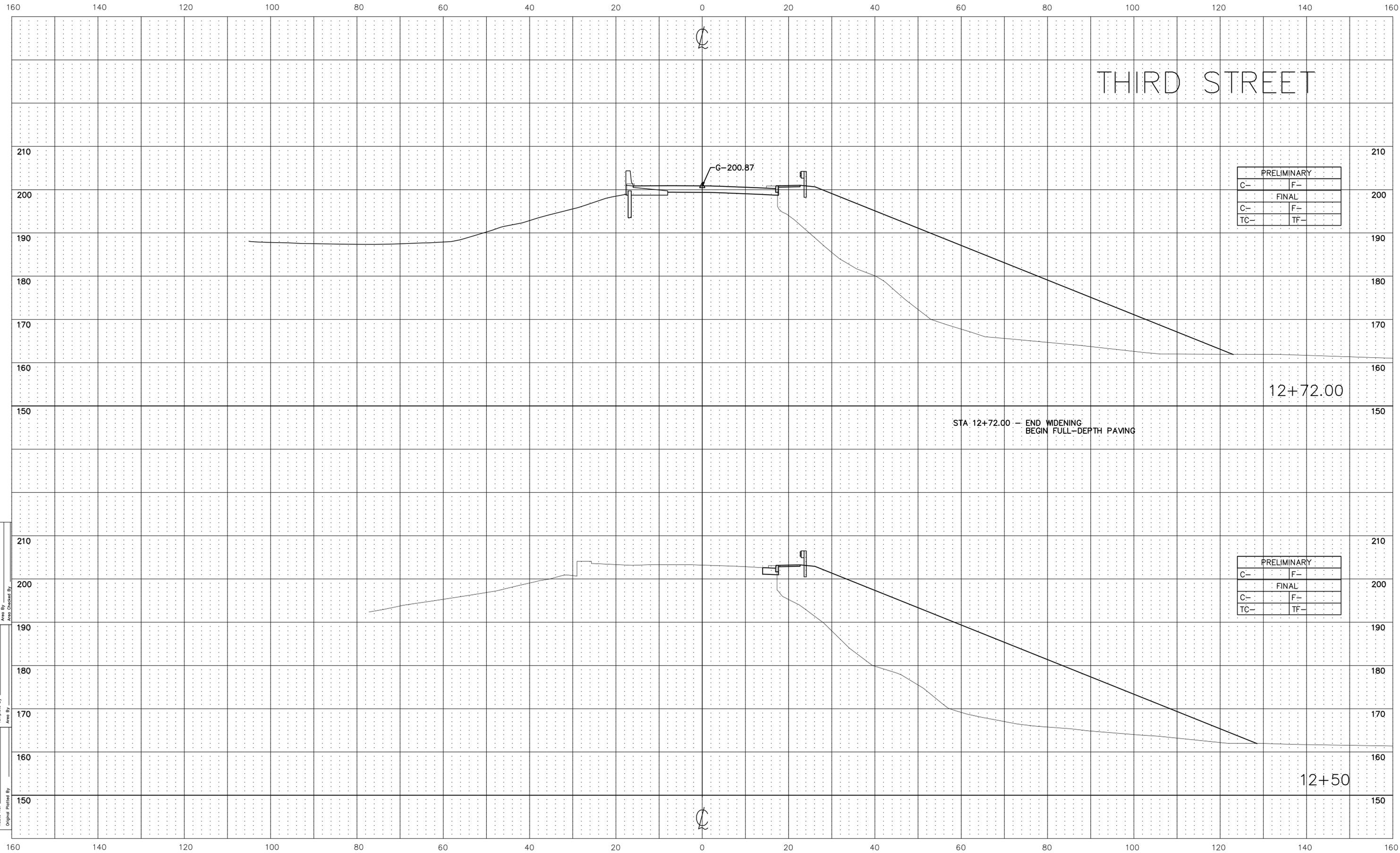
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6-0	DELAWARE	-	-			2 OF 8



Application No. \_\_\_\_\_  
 Route No. \_\_\_\_\_  
 Original Printed By \_\_\_\_\_  
 Original Checked By \_\_\_\_\_  
 Template By \_\_\_\_\_  
 Area By \_\_\_\_\_  
 Area Checked By \_\_\_\_\_  
 Plans Printed By \_\_\_\_\_  
 Area By \_\_\_\_\_  
 Area Checked By \_\_\_\_\_

STA 12+17.00 - BEGIN WIDENING  
 - BEGIN CEM CONC S'WALK, RT  
 - BEGIN PLC C'URB, RT.  
 STA 11+85.00 - START WORK  
 STA 11+00.00 - LIMIT OF WORK

Dist.	County	Route	Sect.	Prelim. Bk. No.	Final Bk. No.	Sheet No.
6-0	DELAWARE	-	-			3 OF 8

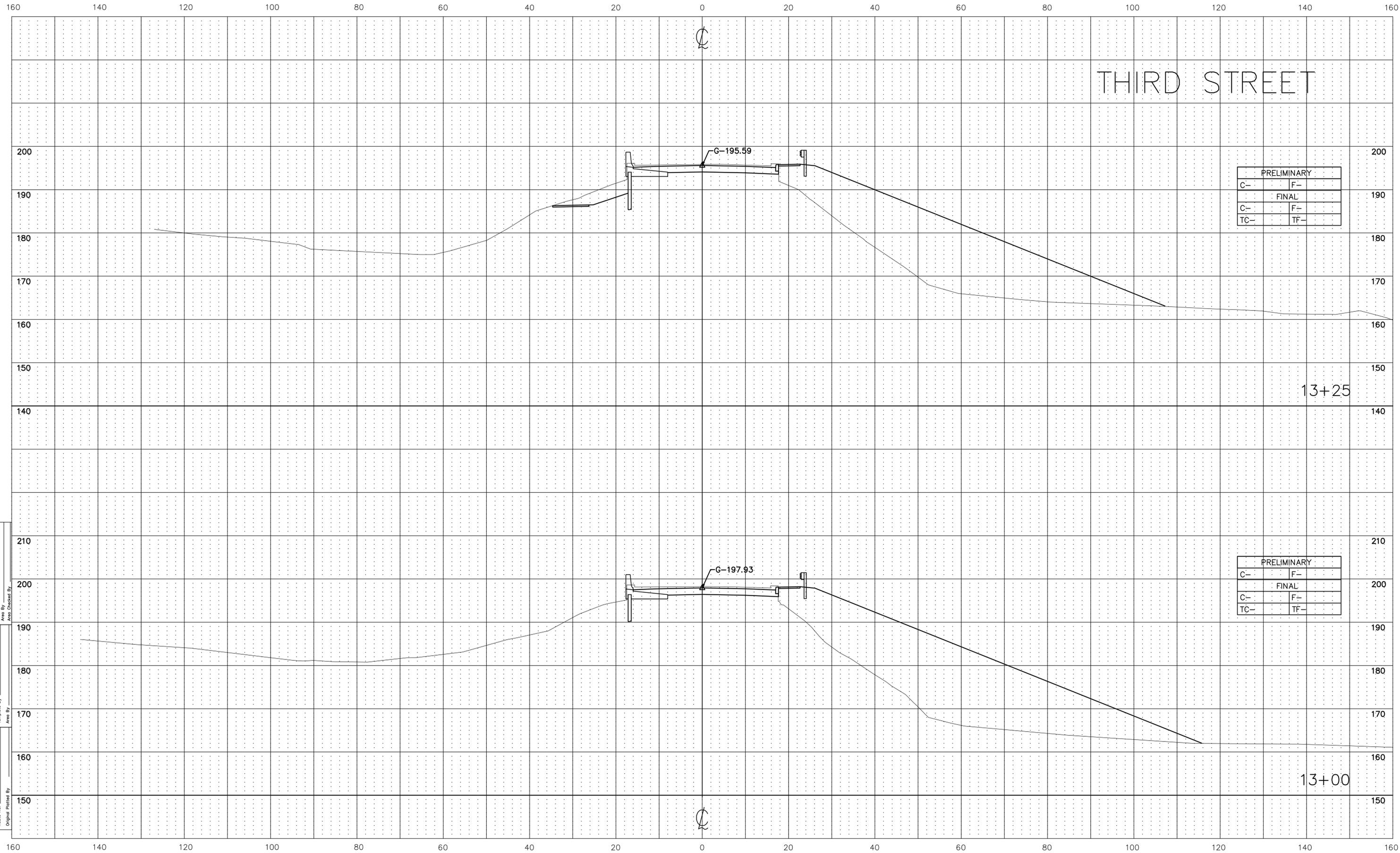


Application No. \_\_\_\_\_  
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Template By \_\_\_\_\_  
Area By \_\_\_\_\_  
Area Checked By \_\_\_\_\_  
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FINAL	
C-	F-
TC-	TF-

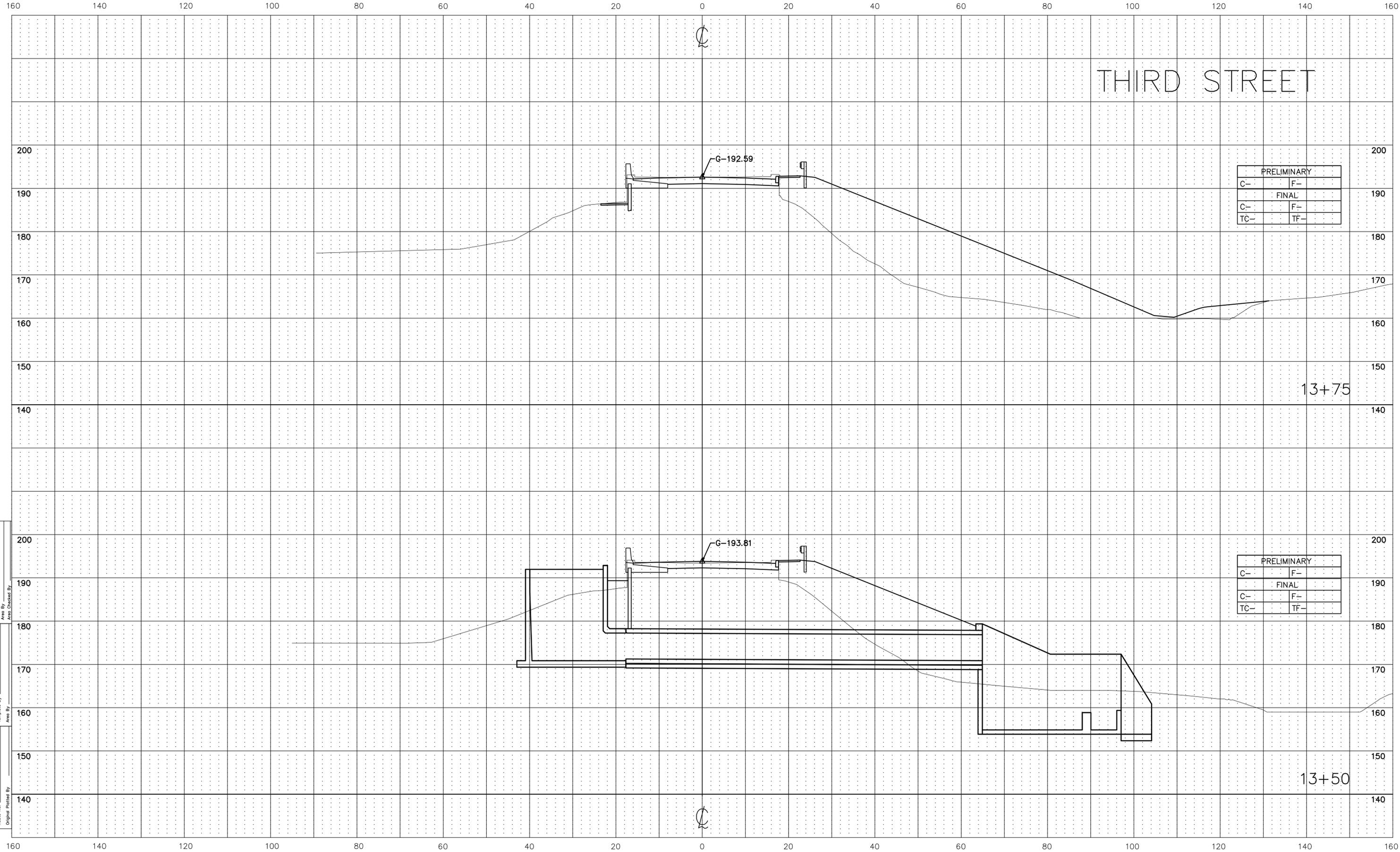
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FINAL	
C-	F-
TC-	TF-

Dist.	County	Route	Sect.	Prelim. Bk. No.	Final Bk. No.	Sheet No.
6-0	DELAWARE	-	-			4 OF 8



Application No. \_\_\_\_\_  
Route No. \_\_\_\_\_  
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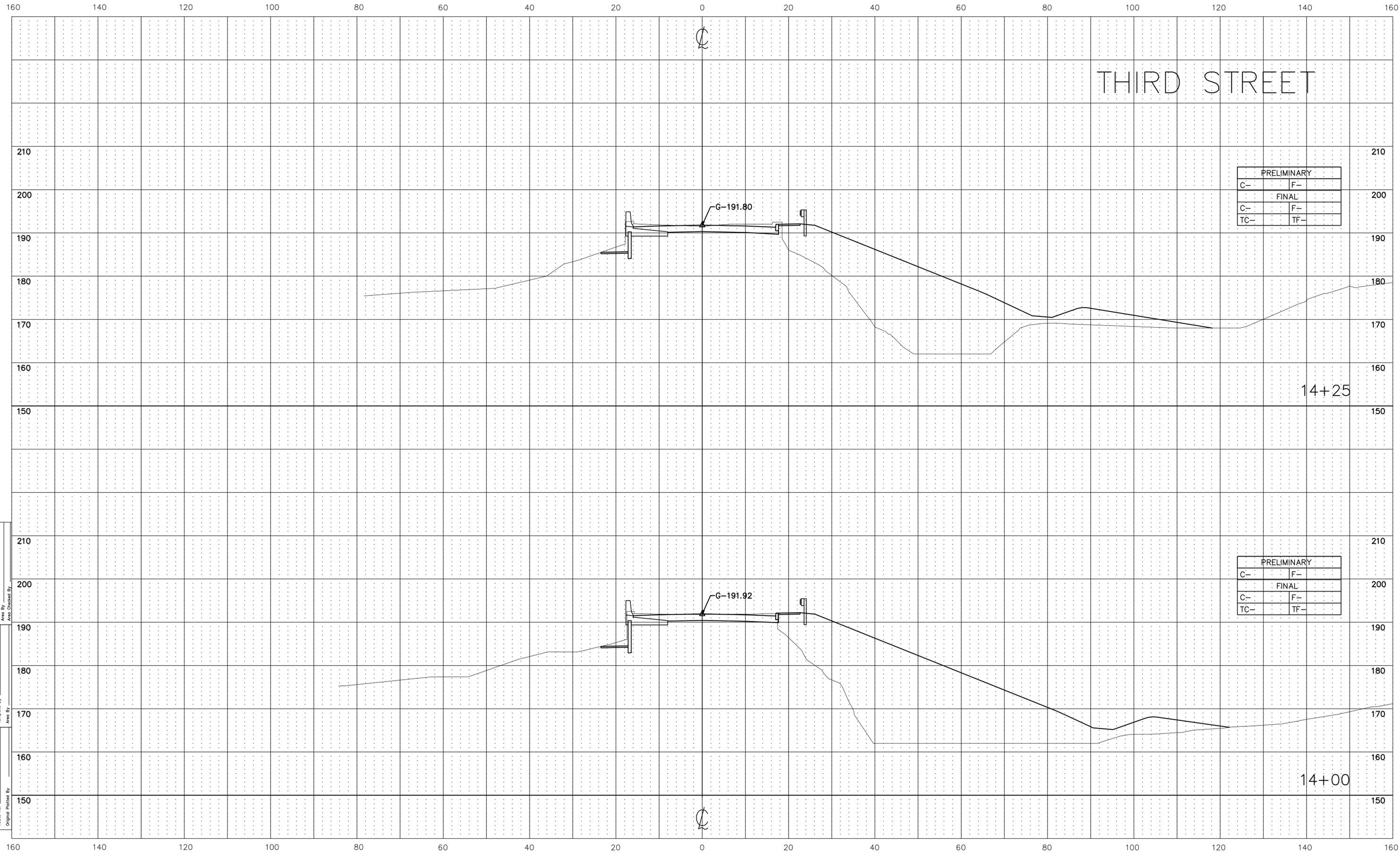


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FINAL	
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PRELIMINARY	
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FINAL	
C-	F-
TC-	TF-

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Dist.	County	Route	Sect.	Prelim. Bk. No.	Final Bk. No.	Sheet No.
6-0	DELAWARE	-	-			6 OF 8

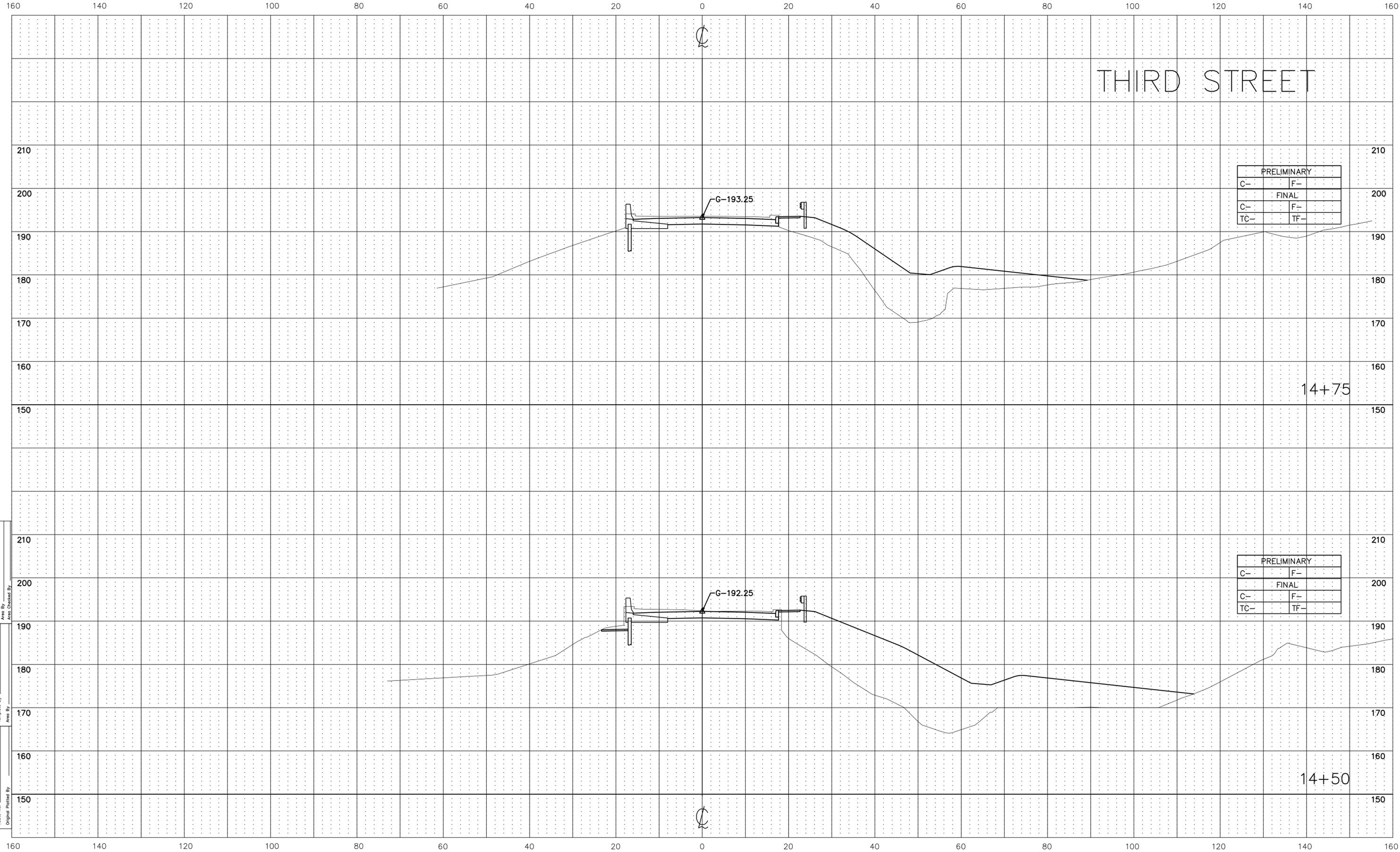


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FINAL	
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PRELIMINARY	
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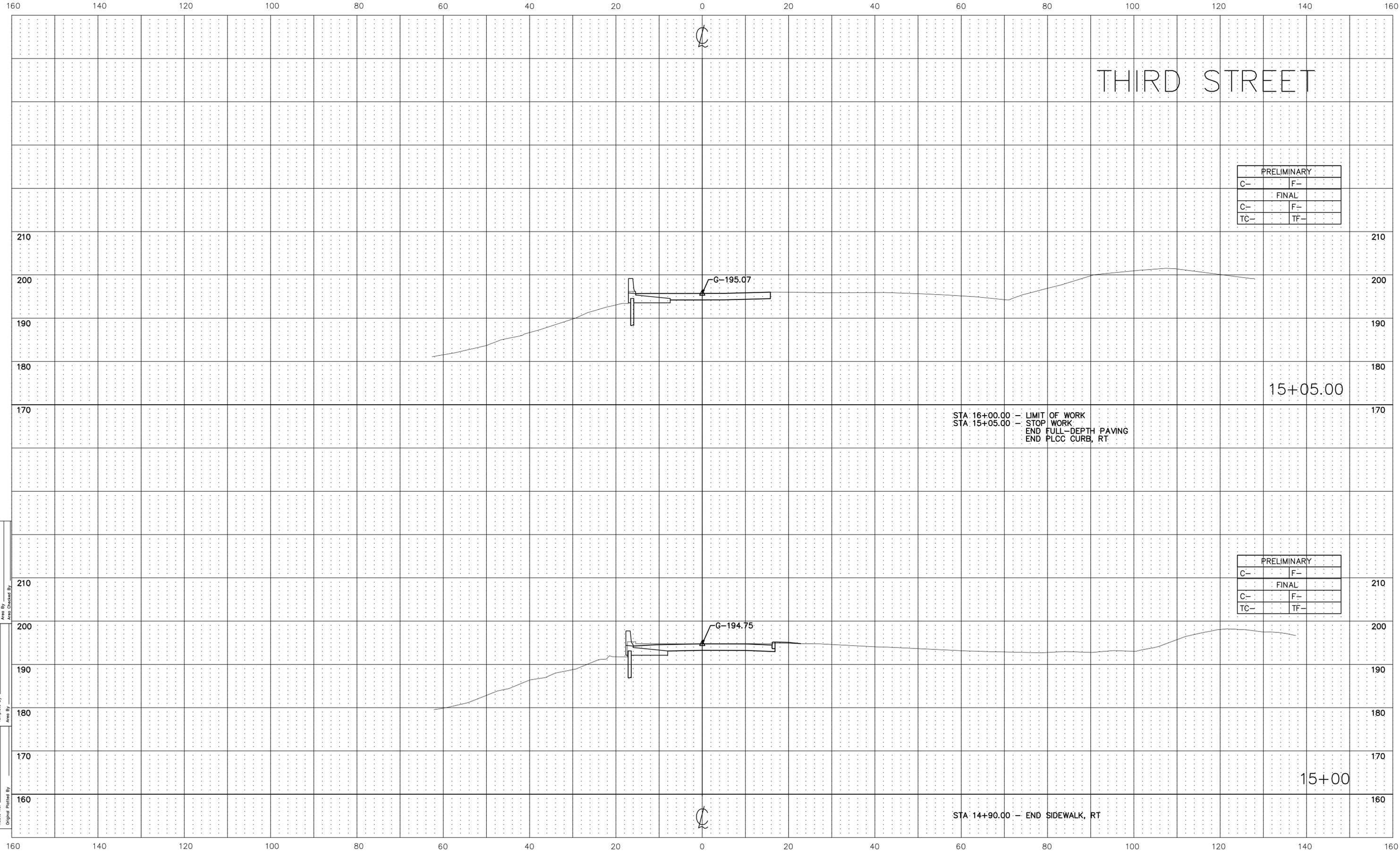


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TC-	TF-

PRELIMINARY	
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Dist.	County	Route	Sect.	Prelim. Bk. No.	Final Bk. No.	Sheet No.
6-0	DELAWARE	-	-			8 OF 8



Application No. \_\_\_\_\_  
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Area By \_\_\_\_\_  
Area Checked By \_\_\_\_\_  
Prints Fetched By \_\_\_\_\_  
Area By \_\_\_\_\_  
Area Checked By \_\_\_\_\_

STA 16+00.00 - LIMIT OF WORK  
STA 15+05.00 - STOP WORK  
END FULL-DEPTH PAVING  
END PLCC CURB, RT

STA 14+90.00 - END SIDEWALK, RT

PRELIMINARY	
C-	F-
FINAL	
C-	F-
TC-	TF-

PRELIMINARY	
C-	F-
FINAL	
C-	F-
TC-	TF-