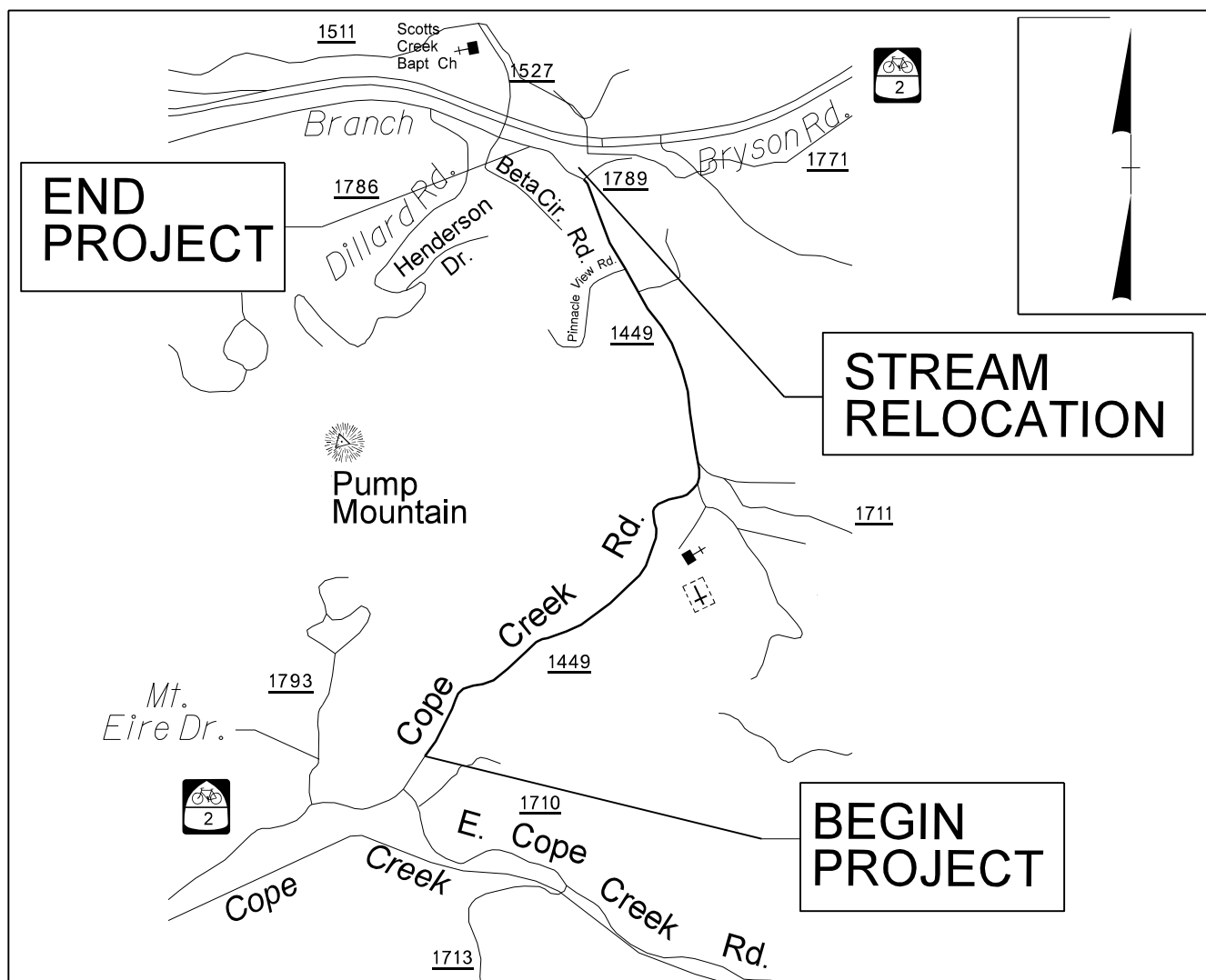


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numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
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See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JACKSON COUNTY

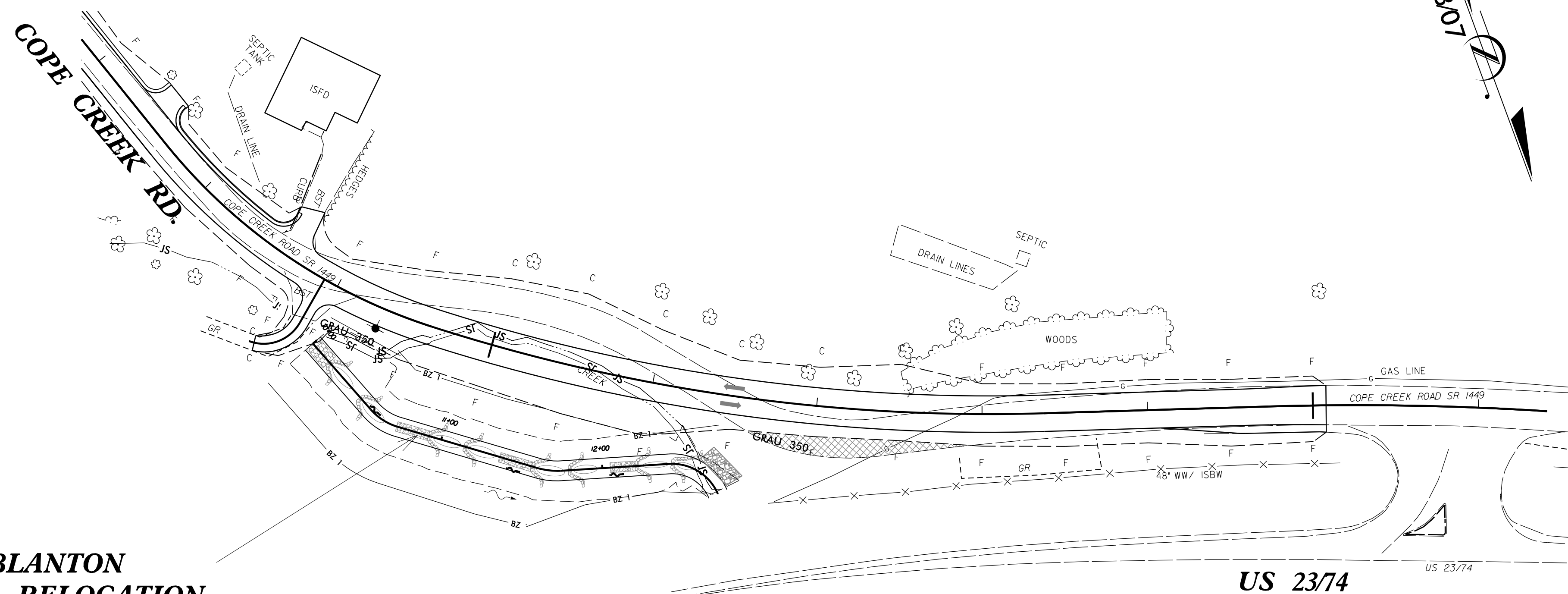
LOCATION: UT TO BLANTON BRANCH NEAR COPE CREEK ROAD AND US 2974

TYPE OF WORK: STREAM RELOCATION, GRADING, DRAINAGE, AND EROSION CONTROL

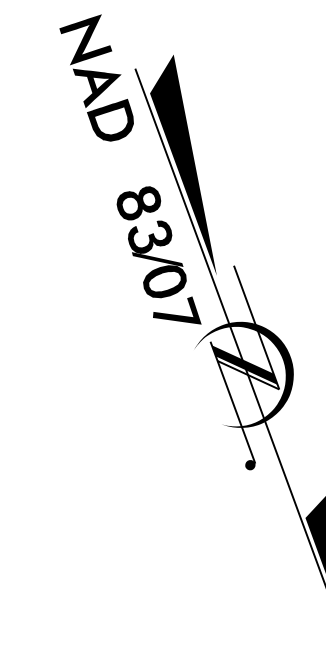
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5206	OSM-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

PROJECT: R-5206

CONTRACT: C202105

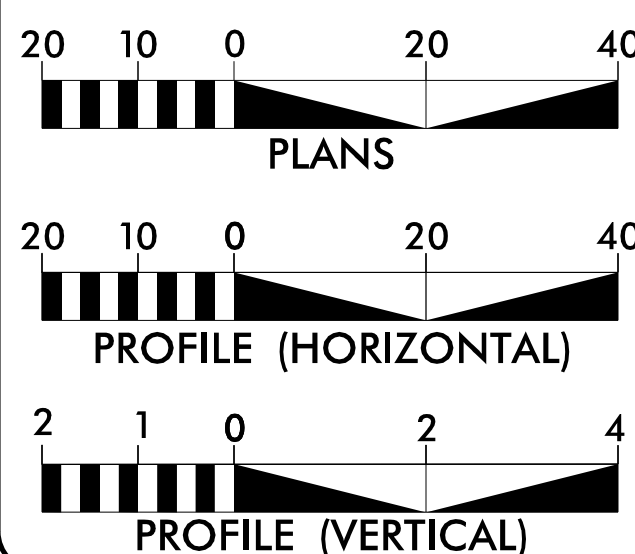


UT TO BLANTON BRANCH RELOCATION



THIS PROJECT IS NOT LOCATED WITHIN ANY MUNICIPAL BOUNDARIES
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

GRAPHIC SCALES



DESIGN DATA

PROJECT LENGTH

EXISTING STREAM LENGTH = 282.10 L.F.
PROPOSED STREAM LENGTH = 277.37 L.F.



Sepl Engineering & Construction
1025 Wade Avenue
Raleigh, NC 27605
Phone: (919)-789-9977
Fax: (919)-789-9591
License: C-2197

2012 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE:

LETTING DATE:

NCDOT CONTACT

STEVE SCOTT, PE
PROJECT ENGINEER

STEPHEN WILLIAMS
DIVISION PROJECT MANAGER-NCDOT

PROJECT ENGINEER

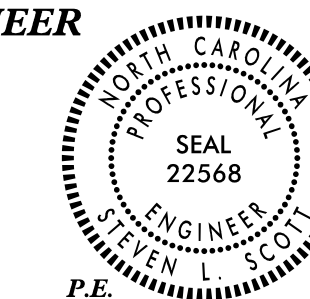
6/15/2015

DocuSigned by:
Steve Scott

SIGNATURE:

ROADWAY DESIGN ENGINEER

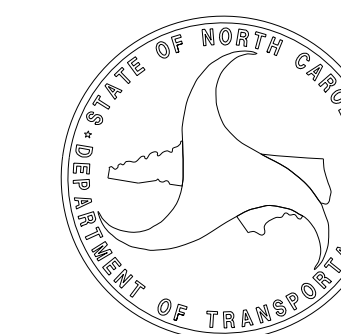
SIGNATURE:



P.E.

P.E.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**



Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

Table listing symbols for boundaries and property: State Line, County Line, Township Line, City Line, Reservation Line, Property Line, Existing Iron Pin, Property Corner, Property Monument, Parcel/Sequence Number, Existing Fence Line, Proposed Woven Wire Fence, Proposed Chain Link Fence, Proposed Barbed Wire Fence, Existing Wetland Boundary, Proposed Wetland Boundary, Existing Endangered Animal Boundary, Existing Endangered Plant Boundary, Known Soil Contamination: Area or Site, Potential Soil Contamination: Area or Site.

BUILDINGS AND OTHER CULTURE:

Table listing symbols for buildings and other culture: Gas Pump Vent or U/G Tank Cap, Sign, Well, Small Mine, Foundation, Area Outline, Cemetery, Building, School, Church, Dam.

HYDROLOGY:

Table listing symbols for hydrology: Stream or Body of Water, Hydro, Pool or Reservoir, Jurisdictional Stream, Buffer Zone 1, Buffer Zone 2, Flow Arrow, Disappearing Stream, Spring, Wetland, Proposed Lateral, Tail, Head Ditch, False Sump.

RAILROADS:

Table listing symbols for railroads: Standard Gauge, RR Signal Milepost, Switch, RR Abandoned, RR Dismantled.

RIGHT OF WAY:

Table listing symbols for right of way: Baseline Control Point, Existing Right of Way Marker, Existing Right of Way Line, Proposed Right of Way Line, Proposed Right of Way Line with Iron Pin and Cap Marker, Proposed Right of Way Line with Concrete or Granite RW Marker, Proposed Control of Access Line with Concrete CA Marker, Existing Control of Access, Proposed Control of Access, Existing Easement Line, Proposed Temporary Construction Easement, Proposed Temporary Drainage Easement, Proposed Permanent Drainage Easement, Proposed Permanent Drainage / Utility Easement, Proposed Permanent Utility Easement, Proposed Temporary Utility Easement, Proposed Aerial Utility Easement, Proposed Permanent Easement with Iron Pin and Cap Marker.

ROADS AND RELATED FEATURES:

Table listing symbols for roads and related features: Existing Edge of Pavement, Existing Curb, Proposed Slope Stakes Cut, Proposed Slope Stakes Fill, Proposed Curb Ramp, Existing Metal Guardrail, Proposed Guardrail, Existing Cable Guiderail, Proposed Cable Guiderail, Equality Symbol, Pavement Removal.

VEGETATION:

Table listing symbols for vegetation: Single Tree, Single Shrub, Hedge, Woods Line.

Table listing symbols for orchard and vineyard.

EXISTING STRUCTURES:

Table listing symbols for existing structures: MAJOR: Bridge, Tunnel or Box Culvert, Bridge Wing Wall, Head Wall and End Wall; MINOR: Head and End Wall, Pipe Culvert, Footbridge, Drainage Box: Catch Basin, DI or JB, Paved Ditch Gutter, Storm Sewer Manhole, Storm Sewer.

UTILITIES:

Table listing symbols for utilities: POWER: Existing Power Pole, Proposed Power Pole, Existing Joint Use Pole, Proposed Joint Use Pole, Power Manhole, Power Line Tower, Power Transformer, U/G Power Cable Hand Hole, H-Frame Pole, Recorded U/G Power Line, Designated U/G Power Line (S.U.E.*); TELEPHONE: Existing Telephone Pole, Proposed Telephone Pole, Telephone Manhole, Telephone Booth, Telephone Pedestal, Telephone Cell Tower, U/G Telephone Cable Hand Hole, Recorded U/G Telephone Cable, Designated U/G Telephone Cable (S.U.E.*), Recorded U/G Telephone Conduit, Designated U/G Telephone Conduit (S.U.E.*), Recorded U/G Fiber Optics Cable, Designated U/G Fiber Optics Cable (S.U.E.*).

WATER:

Table listing symbols for water: Water Manhole, Water Meter, Water Valve, Water Hydrant, Recorded U/G Water Line, Designated U/G Water Line (S.U.E.*), Above Ground Water Line.

TV:

Table listing symbols for TV: TV Satellite Dish, TV Pedestal, TV Tower, U/G TV Cable Hand Hole, Recorded U/G TV Cable, Designated U/G TV Cable (S.U.E.*), Recorded U/G Fiber Optic Cable, Designated U/G Fiber Optic Cable (S.U.E.*).

GAS:

Table listing symbols for gas: Gas Valve, Gas Meter, Recorded U/G Gas Line, Designated U/G Gas Line (S.U.E.*), Above Ground Gas Line.

SANITARY SEWER:

Table listing symbols for sanitary sewer: Sanitary Sewer Manhole, Sanitary Sewer Cleanout, U/G Sanitary Sewer Line, Above Ground Sanitary Sewer, Recorded SS Forced Main Line, Designated SS Forced Main Line (S.U.E.*).

MISCELLANEOUS:

Table listing symbols for miscellaneous: Utility Pole, Utility Pole with Base, Utility Located Object, Utility Traffic Signal Box, Utility Unknown U/G Line, U/G Tank; Water, Gas, Oil, Underground Storage Tank, Approx. Loc., A/G Tank; Water, Gas, Oil, Geoenvironmental Boring, U/G Test Hole (S.U.E.*), Abandoned According to Utility Records, End of Information.

3/15/06

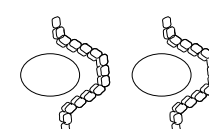
Note: Not to Scale

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

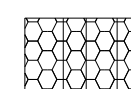
STREAM RELOCATION PLAN SHEET SYMBOLS

STREAM RELOCATION:

ROCK CROSS VANE FOR STEP POOL ———



ROCK ENERGY DISSIPATOR BASIN ———

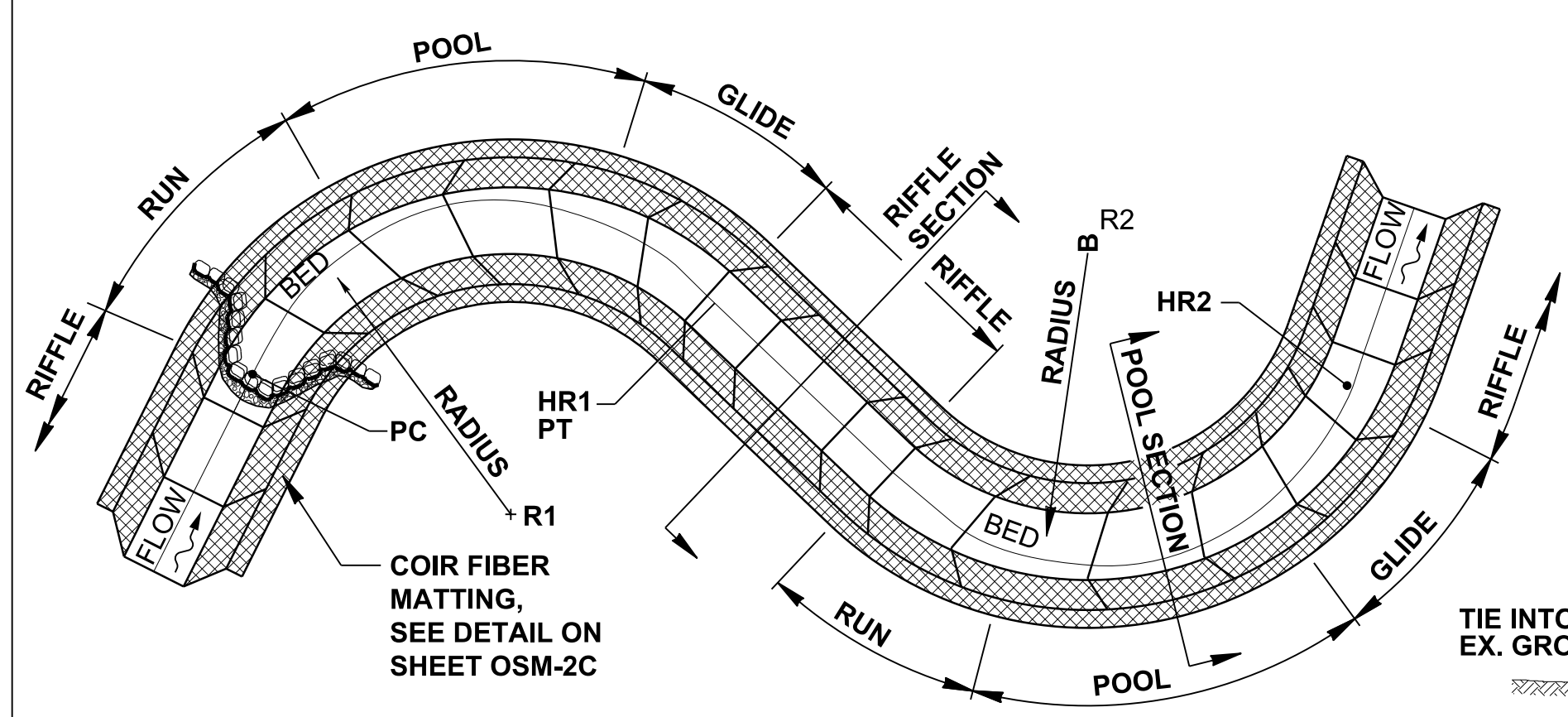
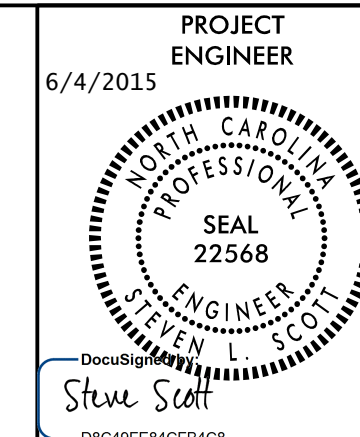


CONSTRUCTED RIFFLE ———

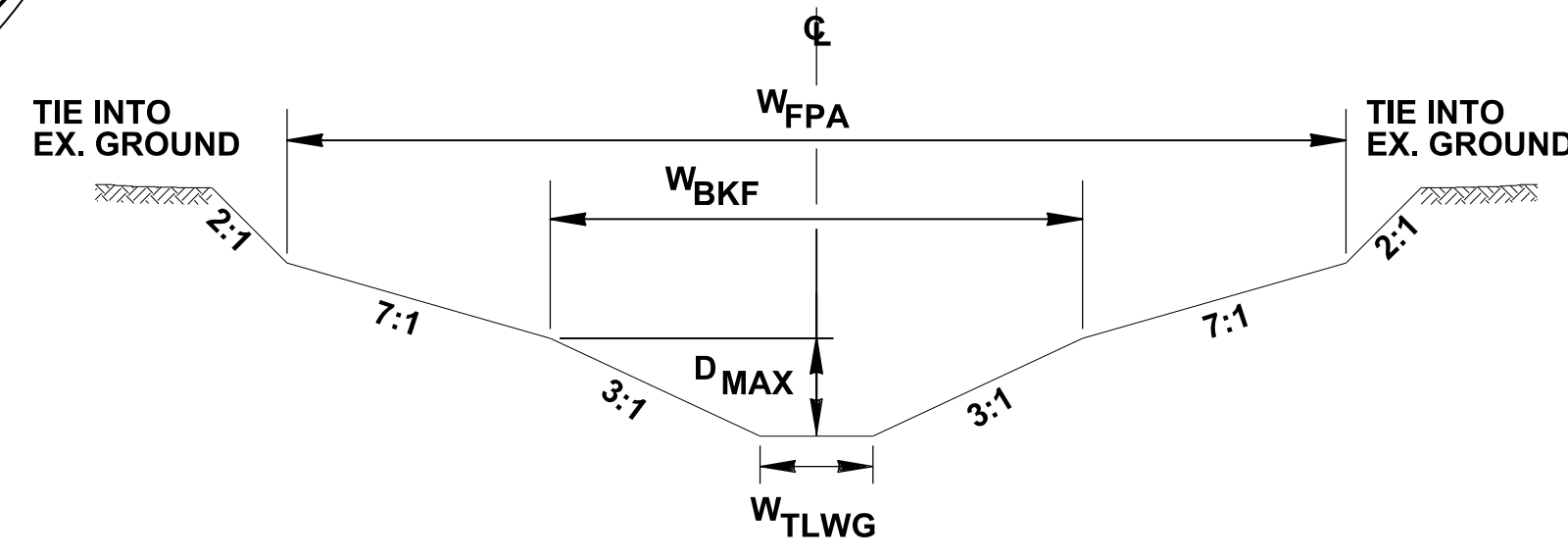


IMBRICATED RIP-RAP REVETMENT ———

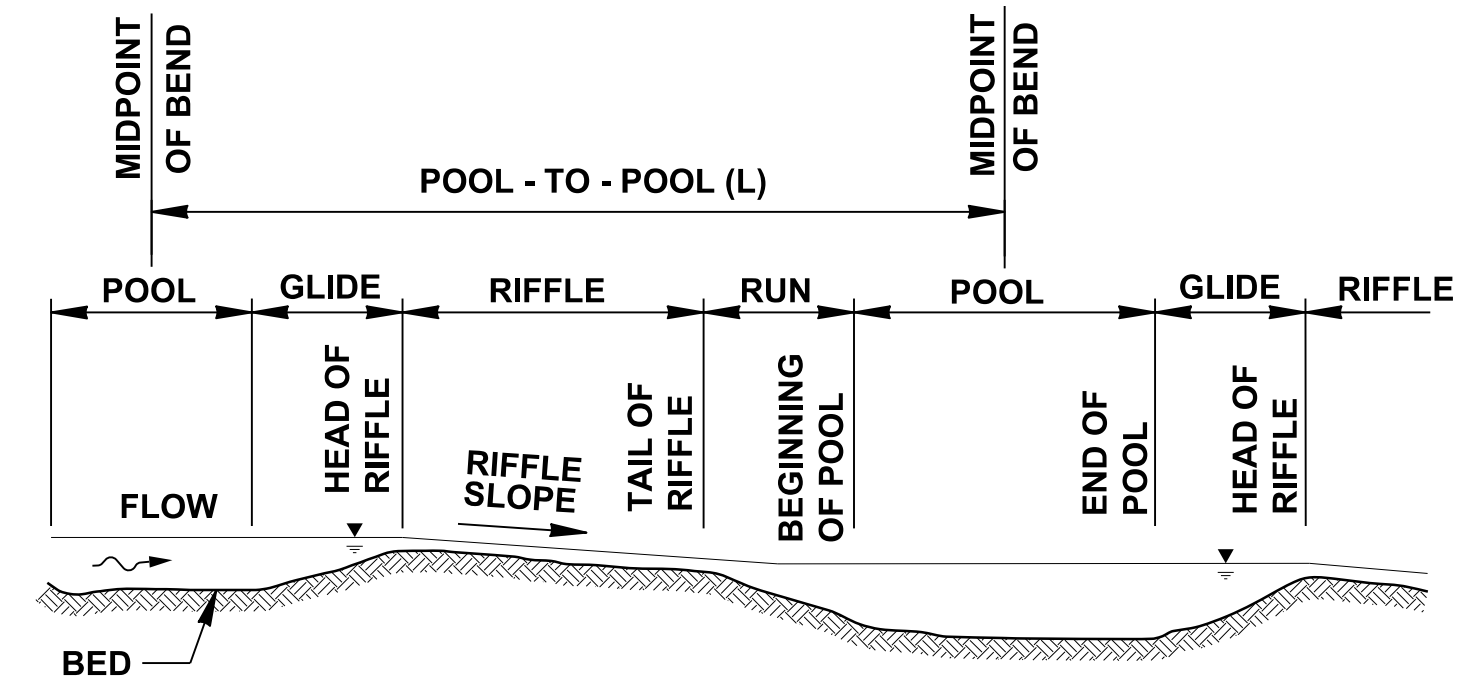




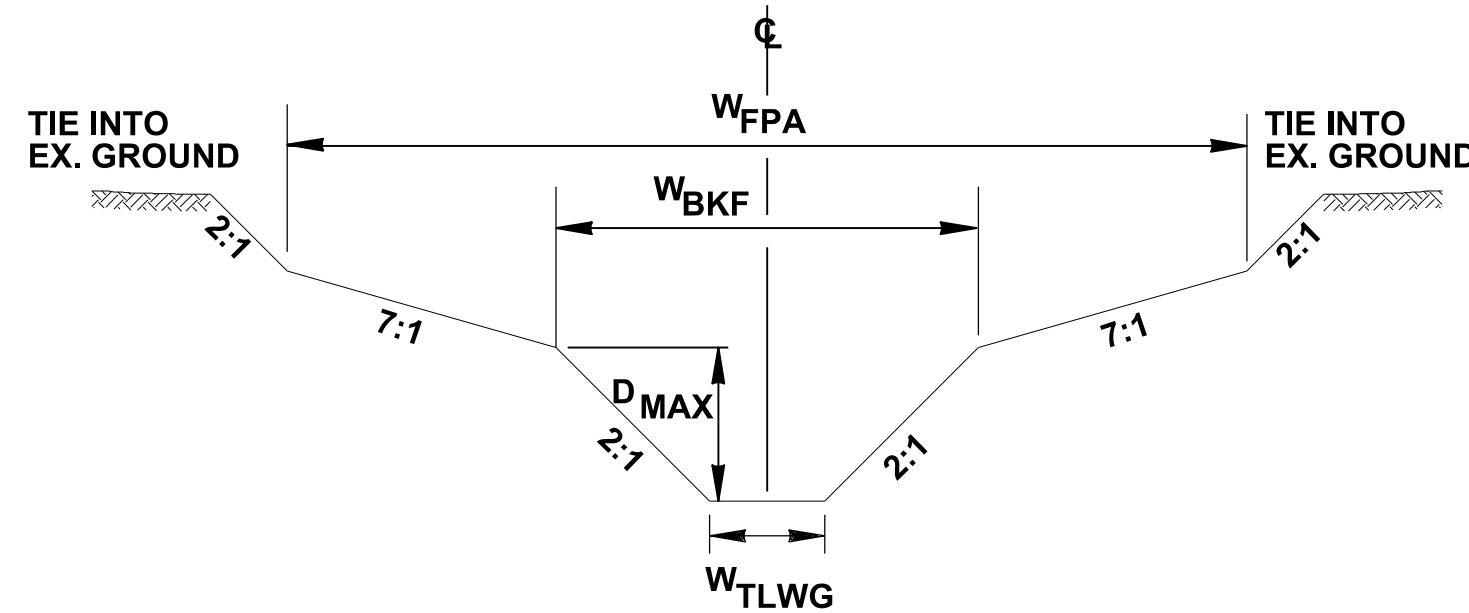
TYPICAL PLAN



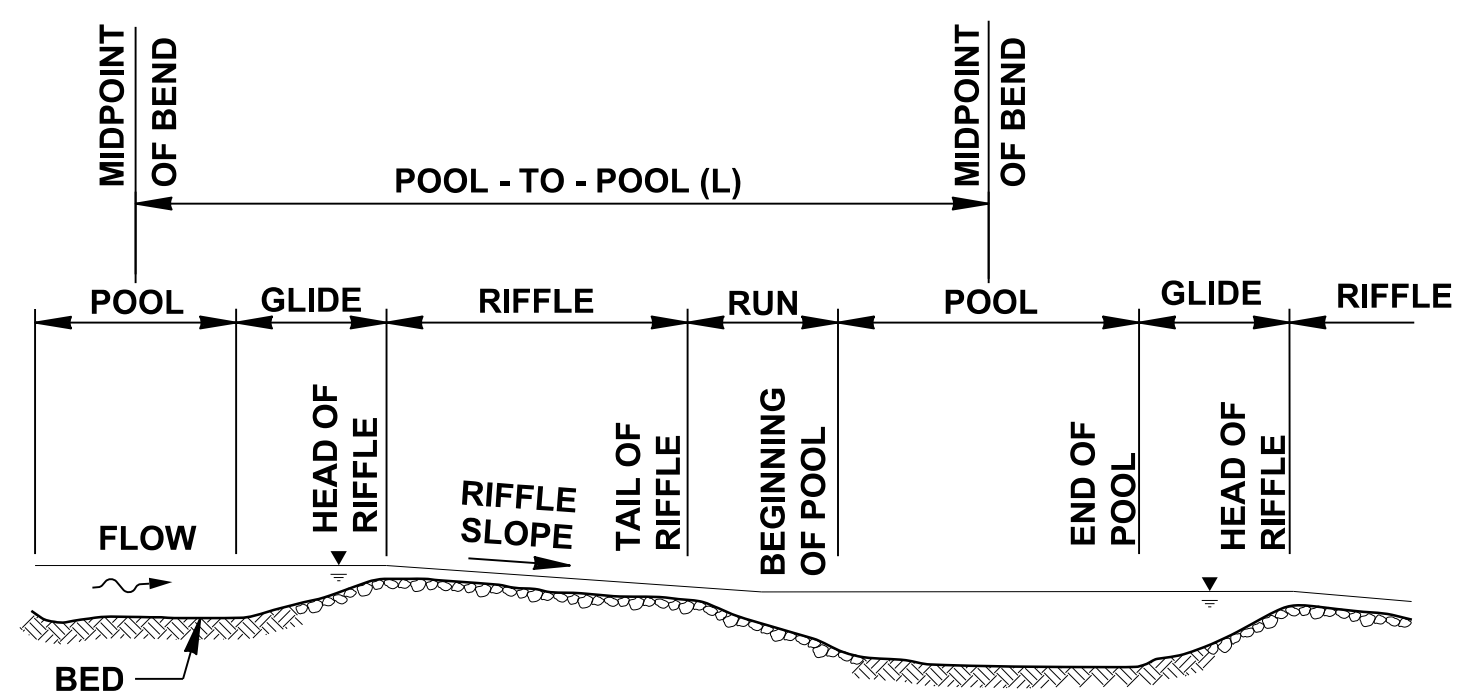
TYPICAL RIFFLE SECTION



TYPICAL PROFILE



TYPICAL POOL SECTION



TYPICAL PROFILE FOR CONSTRUCTED RIFFLE SECTION CHANNEL TYPICAL DETAIL

NOT TO SCALE

WBKF = BANKFULL WIDTH
 WTLWG = THALWEG WIDTH
 WFPA = FLOOD PRONE AREA WIDTH
 D MAX = MAXIMUM DEPTH

MORPHOLOGICAL MEASUREMENTS TABLE

**UT TO BLANTON BRANCH - JACKSON COUNTY, NC
 UT TO BLANTON BRANCH - STA. 10+00.00 to STA. 12+77.37**

Variables	Existing Channel	Proposed Reach	USGS Station	Reference Reach
1. Stream type	B4	B4		Cold Springs Creek
2. Drainage area (sq. mi.)	0.65	0.65		B4
3. Bankfull width	Mean: 7.0 Range:	Mean: 12.0 Range:		Mean: 23.4 Range:
4. Bankfull mean depth	Mean: 1.0 Range:	Mean: 0.94 Range:		Mean: 1.48 Range:
5. Width/depth ratio	Mean: 6.8 Range:	Mean: 12.8 Range:		Mean: 15.8 Range:
6. Bankfull cross-sectional area	Mean: 7.0 Range:	Mean: 11.25 Range:		Mean: 34.6 Range:
7. Bankfull mean velocity	Mean: Range:	Mean: 6.3 Range:		Mean: 6.1 Range:
8. Bankfull discharge, cfs	Mean: Range:	Mean: 84.0 Range:		Mean: 210.0 Range:
9. Bankfull max depth	Mean: 1.78 Range:	Mean: 1.50 Range:		Mean: 22.0 Range:
10. Width of floodprone area	Mean: 70.0 Range:	Mean: 32.3 Range:		Mean: 48.0 Range:
11. Entrenchment ratio	Mean: 10.2 Range:	Mean: 2.69 Range:		Mean: 2.1 Range:
12. Meander length	Mean: 44.0 Range:	Mean: 182.0 Range:		Mean: 100.0 Range:
13. Ratio of meander length to bankfull width	Mean: 6.29 Range:	Mean: 15.2 Range:		Mean: 4.3 Range:
14. Radius of curvature	Mean: 25.0 Range:	Mean: 35.0 Range: 30.0-40.0		Mean: Range: 44-103
15. Ratio of radius of curvature to bankfull width	Mean: 3.57 Range:	Mean: 2.92 Range:		Mean: Range: 1.9-4.4
16. Belt width	Mean: 8.3 Range:	Mean: 34.0 Range:		Mean: 43.0 Range:
17. Meander width ratio	Mean: 1.19 Range:	Mean: 2.6 Range:		Mean: 1.8 Range:
18. Sinuosity (stream length/valley length)	Mean: 1.1 Range:	Mean: 1.1 Range:		Mean: 1.1 Range:
19. Valley slope	Mean: 0.0275 Range:	Mean: 0.325 Range:		Mean: 0.025 Range:
20. Average slope	Mean: 0.0250 Range:	Mean: 0.0358 Range:		Mean: 0.0238 Range:
21. Pool slope	Mean: 0.0001 Range:	Mean: 0.0001 Range:		Mean: 0.0025 Range:
22. Ratio of pool slope to average slope	Mean: 0.0040 Range:	Mean: 0.0028 Range:		Mean: 0.1 Range:
23. Maximum pool depth	Mean: 1.9 Range:	Mean: 3.0 Range:		Mean: 2.3 Range:
24. Ratio of pool depth to average bankfull depth	Mean: 1.9 Range:	Mean: 3.2 Range:		Mean: 1.6 Range:
25. Pool width	Mean: 10.8 Range:	Mean: 16.2 Range:		Mean: 29.6 Range:
26. Ratio of pool width to bankfull width	Mean: 1.54 Range:	Mean: 1.35 Range:		Mean: 1.3 Range:
27. Pool to pool spacing	Mean: 26.5 Range:	Mean: 31.8 Range: 17.0-46.2		Mean: Range: 51-113
28. Ratio of pool to pool spacing to bankfull width	Mean: 3.79 Range:	Mean: 1.96 Range:		Mean: Range: 2.2-4.8
29. Ratio of lowest bank height to bankfull height (or max bankfull depth)	Mean: 1.4 Range:	Mean: 1.0 Range:		Mean: 1.5 Range:

CROSS-SECTION DIMENSIONS

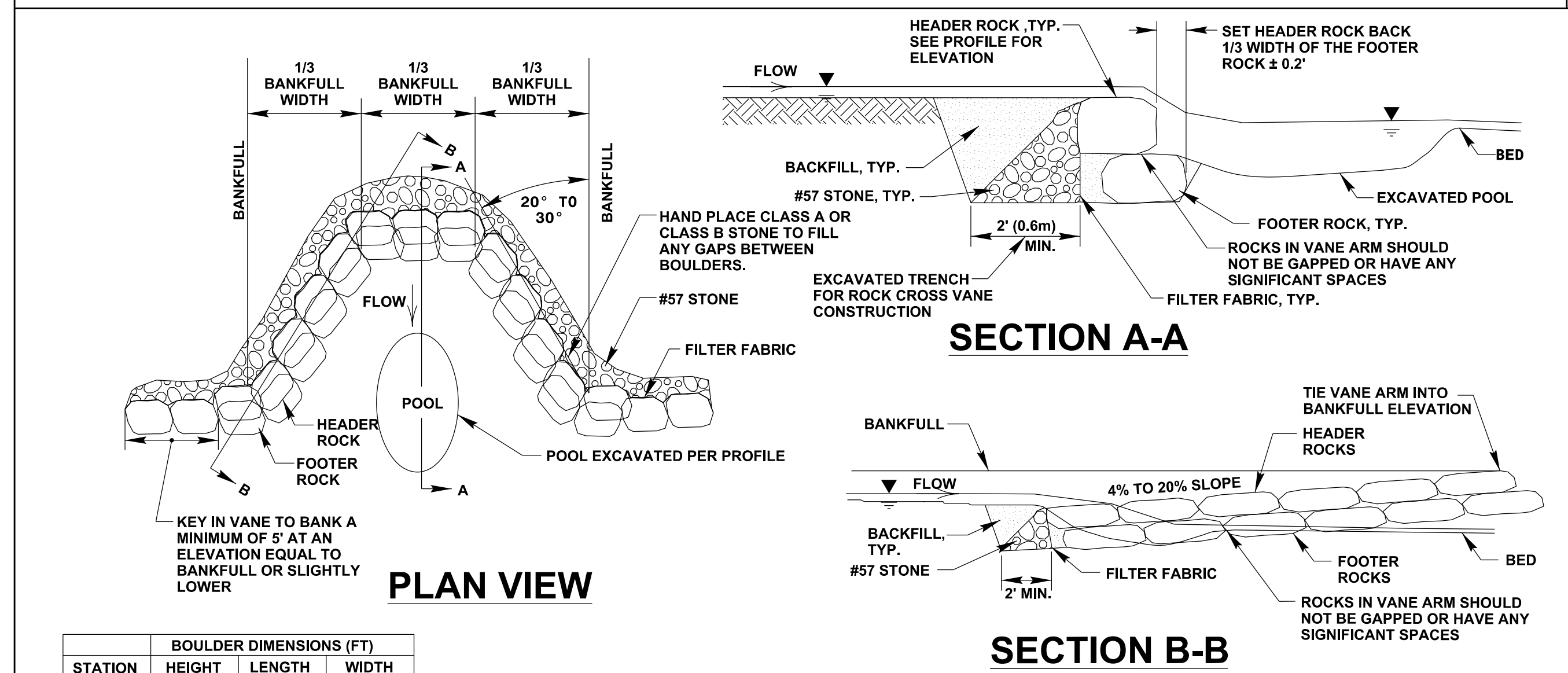
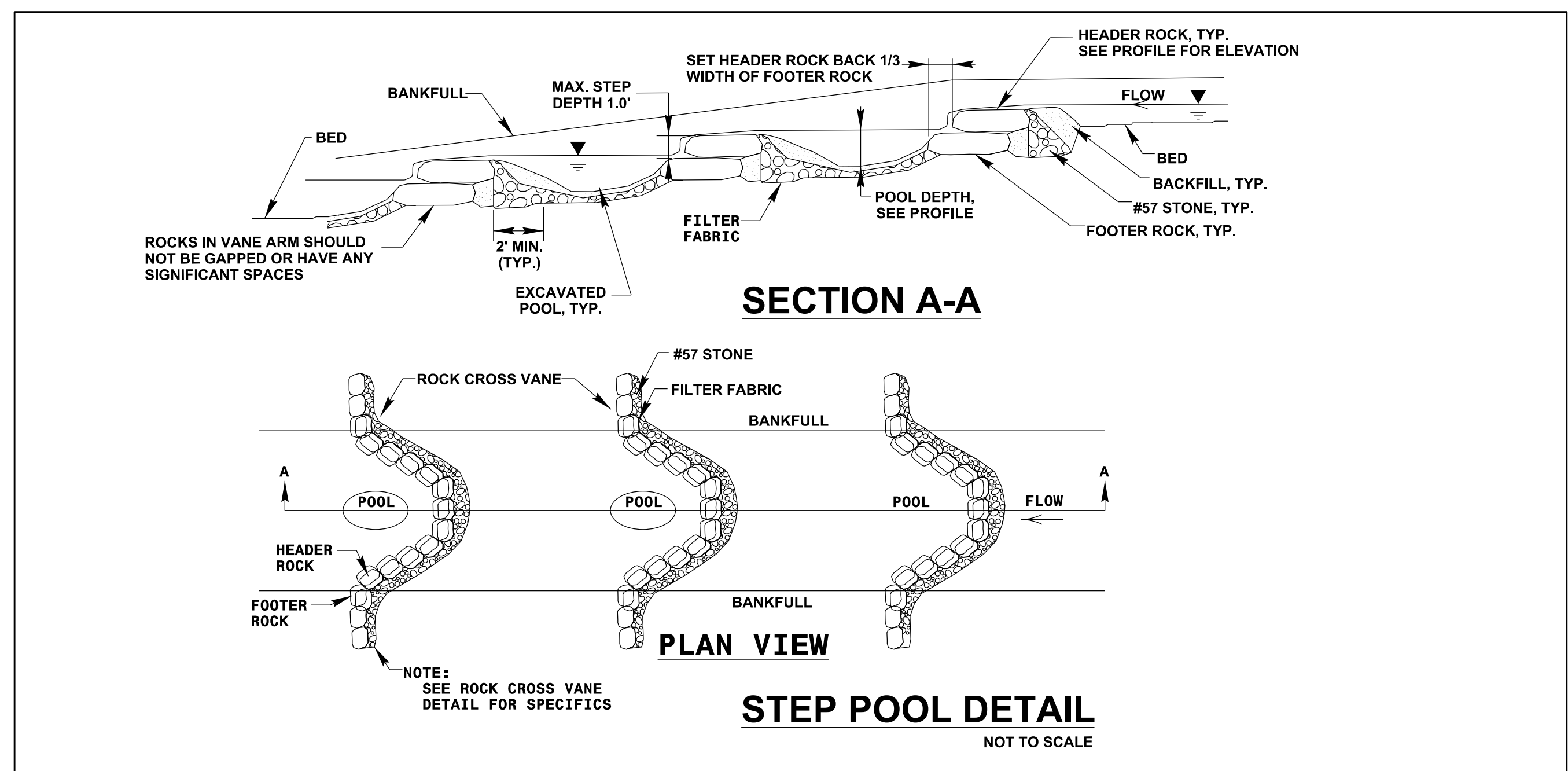
REACH	RIFFLE				POOL			WIDTH/DEPTH RATIO
	WBKF	D MAX	WTLWG	WFPA	WBKF	D MAX	WTLWG	
Sta. 10+00-12+77.37	12.0	1.50	3.0	32.3	15.0	3.0	3.0	12.8

REVISIONS

8/17/99

6/1/2015 9:05 AM J:\Projects\5206\NEU.OSM-2.dgn

PROJECT REFERENCE NO. R-5206	SHEET NO. OSM-2A
RW SHEET NO.	
PROJECT ENGINEER 6/4/2015	

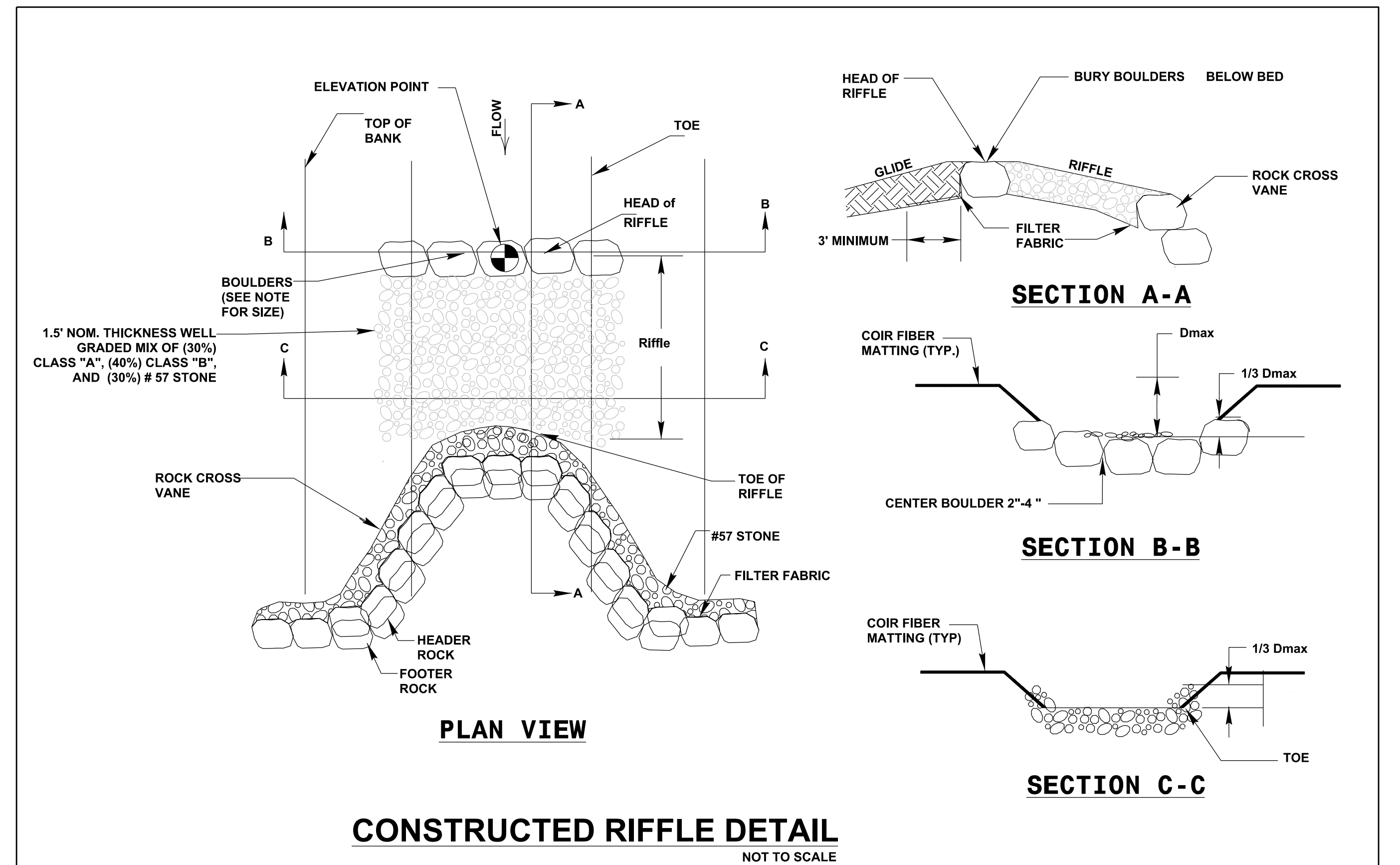
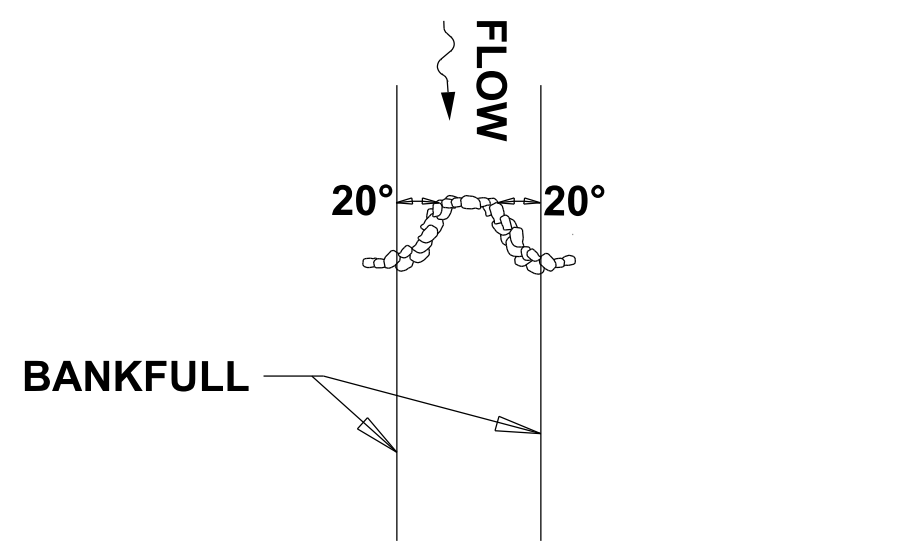
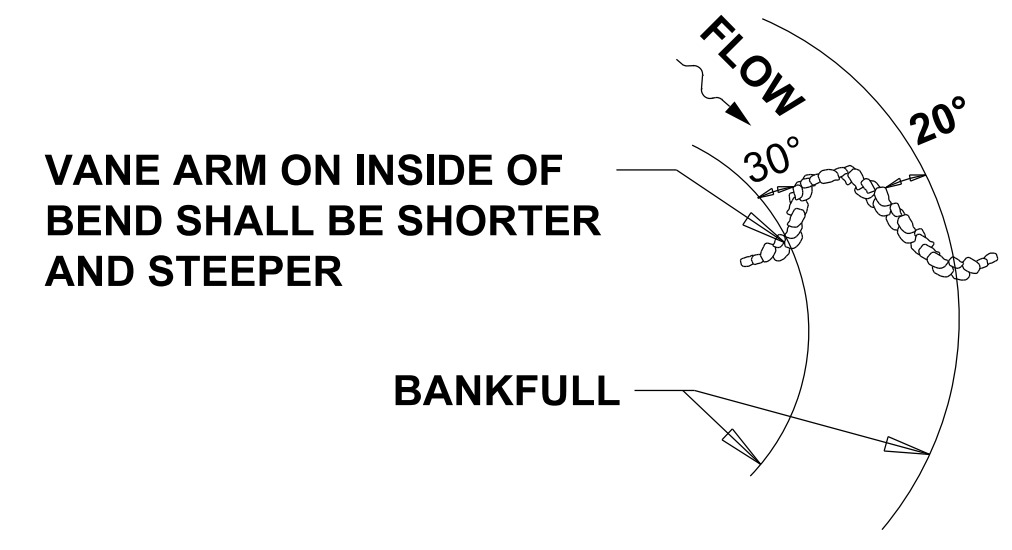


BOULDER DIMENSIONS (FT)			
STATION	HEIGHT	LENGTH	WIDTH
	2.0'	3.0'	2.5'

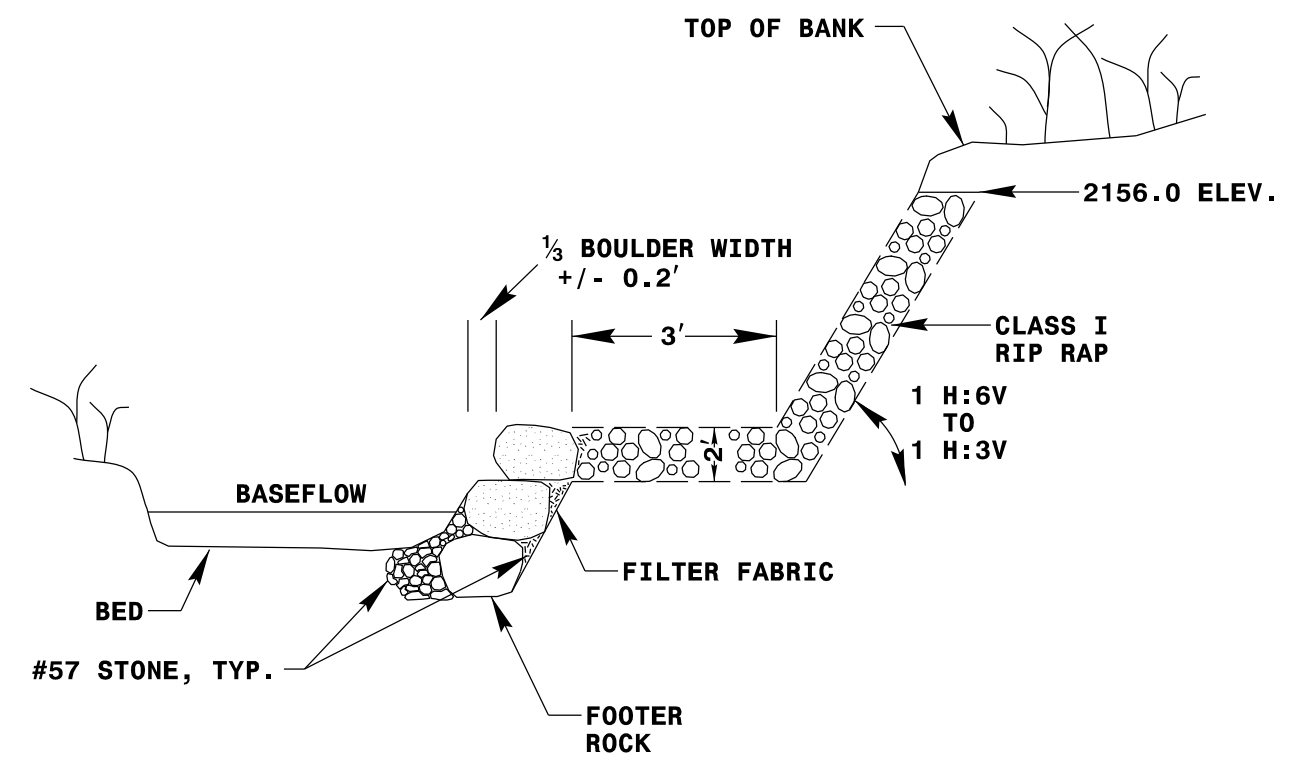
- NOTES:**
1. DEEPEST PART OF POOL TO BE IN LINE WITH WHERE VANE ARM TIES INTO BANKFULL.
 2. DO NOT EXCAVATE POOL TOO CLOSE TO FOOTER BOULDERS.
 3. CLASS "A" STONE CAN BE USED TO REDUCE VOIDS BETWEEN BOULDERS.
 4. VANE ANGLE TOLERANCE IS +/- 5 DEGREES.
 5. VANE ARM SLOPE (VERTICAL) SHOULD BE 0-2% ON THE INTERIOR ARM OF MEANDER BENDS
 6. VANE ARM SLOPE (VERTICAL) ON THE OUTSIDE ARM OF MEANDER BENDS SHOULD BE 2-4%

CROSS VANE CONSTRUCTION IN MEANDER-BEND PLAN VIEW

CROSS VANE CONSTRUCTION IN MEANDER-BEND PLAN VIEW



STA. 12+65 STREAM



- NOTE:**
1. BOULDERS SHOULD BE NATIVE STONES OR SHOT ROCK, ANGULAR AND OBLONG, WITH AN AXIS APPROXIMATELY 3.0'Lx2.5'Wx2.0'D

REVTMENT SHALL BE CONSTRUCTED BY PLACING A MINIMUM OF ONE BOULDER BELOW STREAM BED. ADDITIONAL BOULDERS SHALL BE PLACED ON TOP OF THESE FOOTER BOULDERS SUCH THAT THE ELEVATION OF THE TOP OF THE UPPERMOST BOULDER IS THE SAME ELEVATION AS THE LEFT ARM OF THE CROSS VANE UPSTREAM AT THE BANK TIE IN.

IMBRICATED RIP-RAP REVTMENT
NOT TO SCALE

REVISIONS

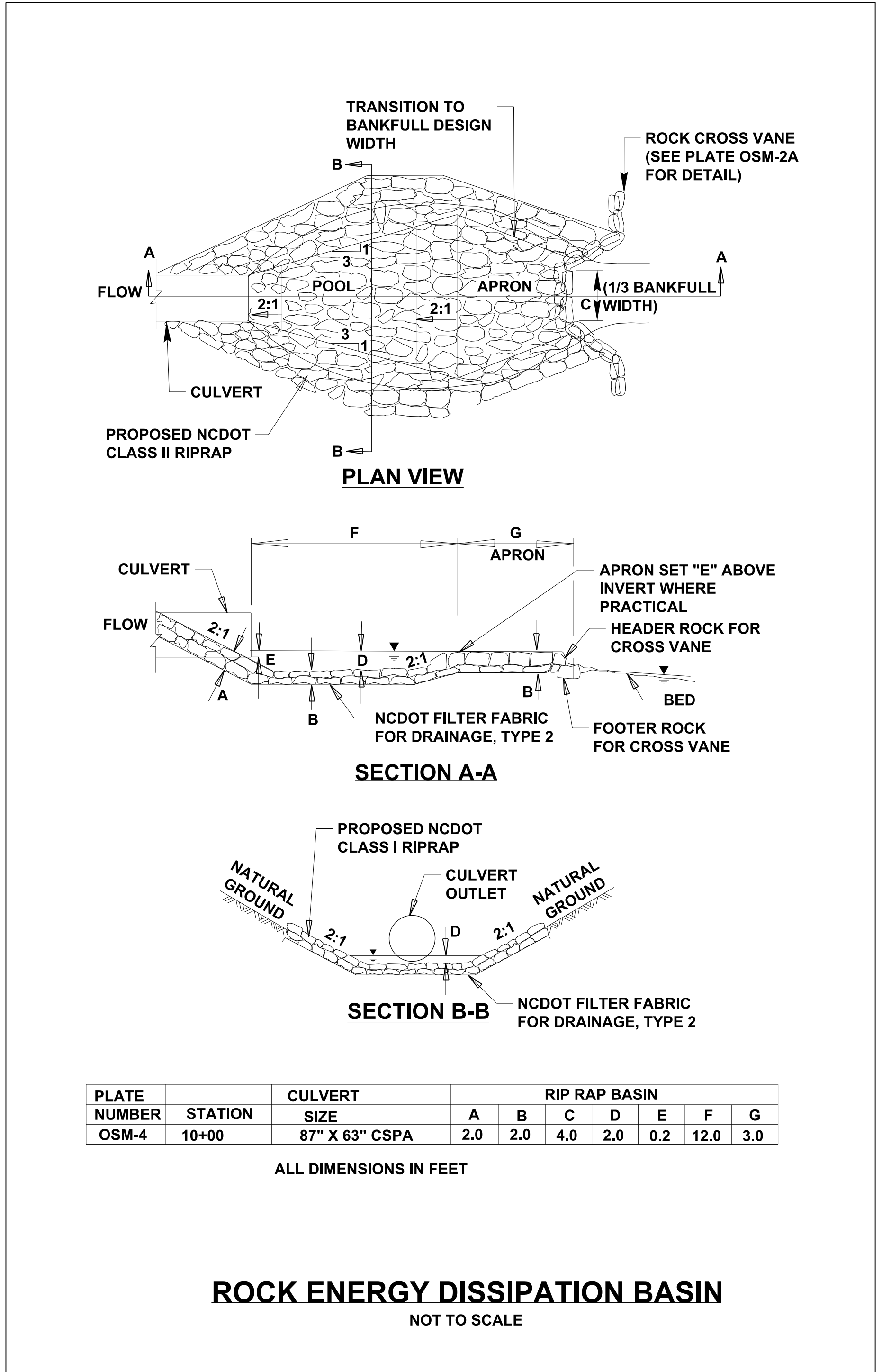
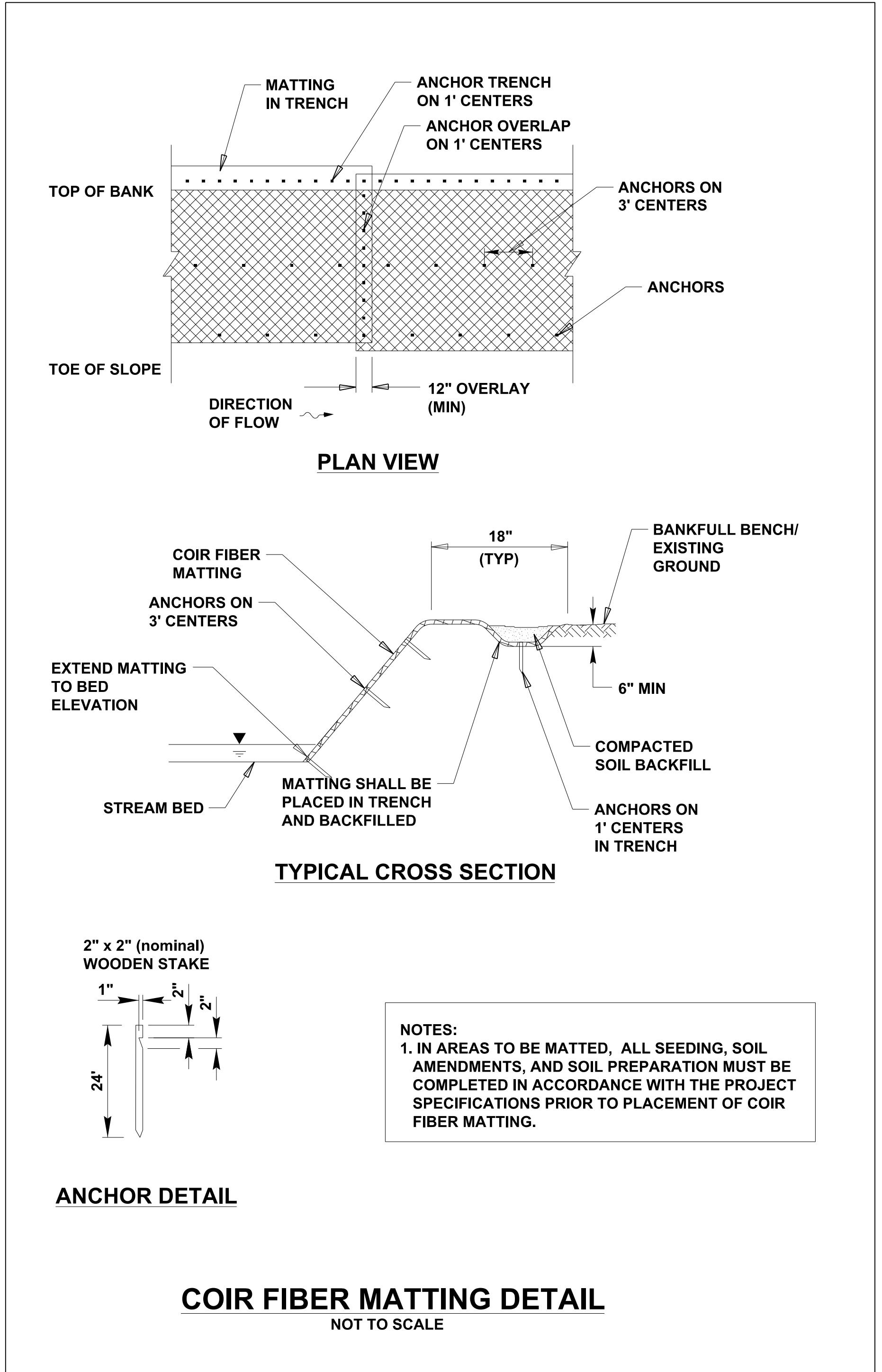
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8/17/99

REVISIONS

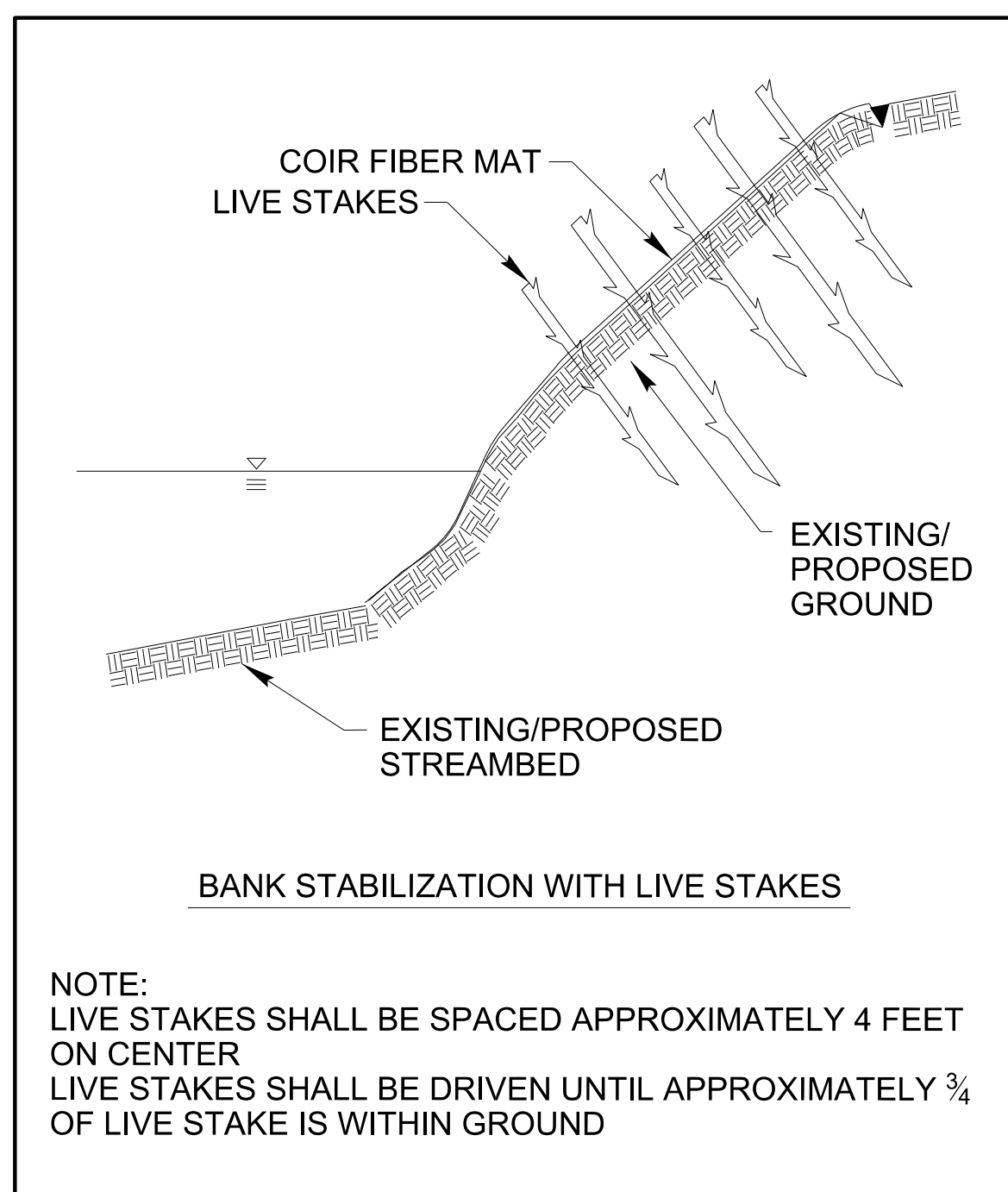
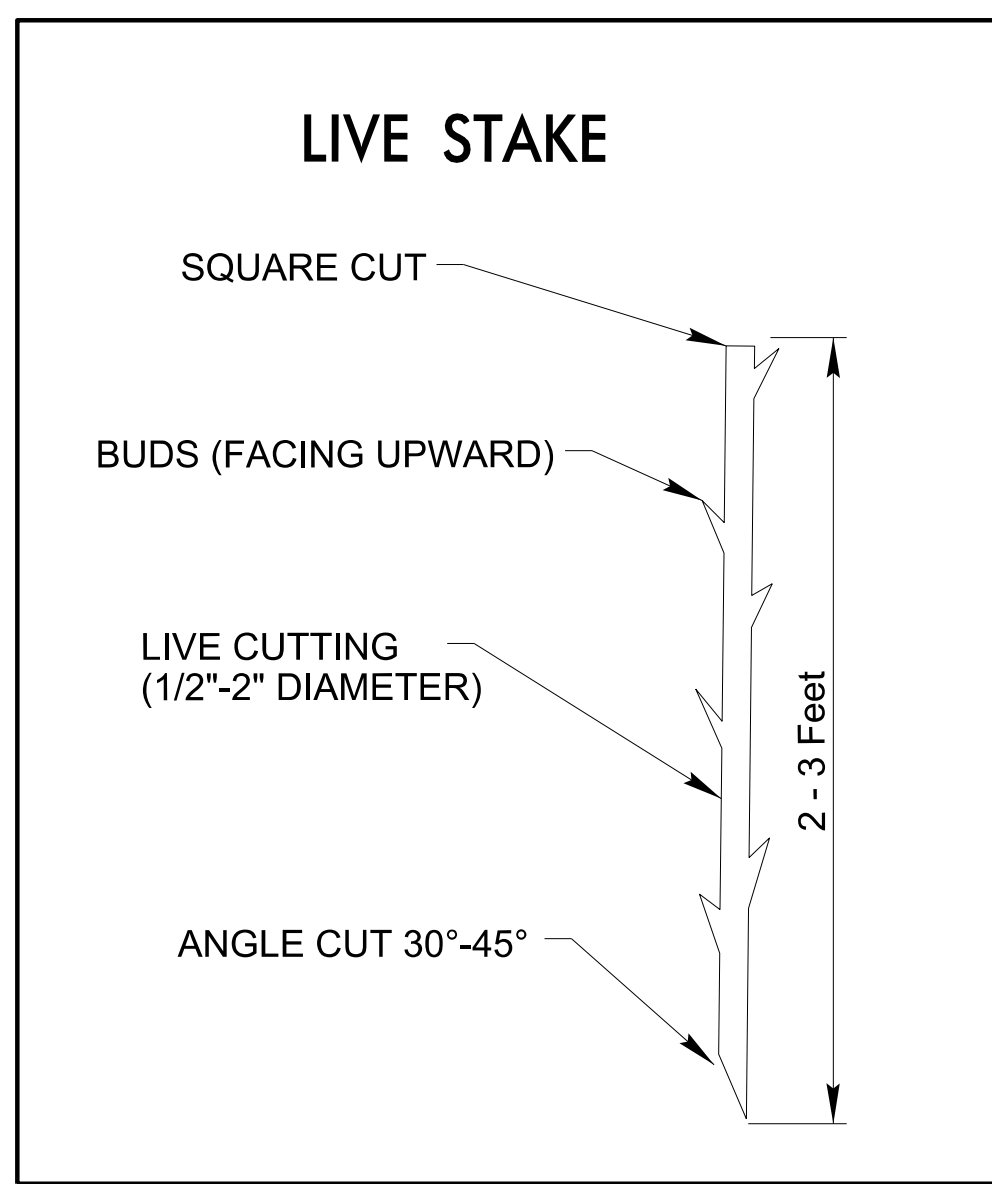
PROJECT ENGINEER
6/4/2015

Steve Scott



PLANTING DETAILS

LIVE STAKES PLANTING DETAIL



STREAMBANK REFORESTATION

MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING:

TYPE 1

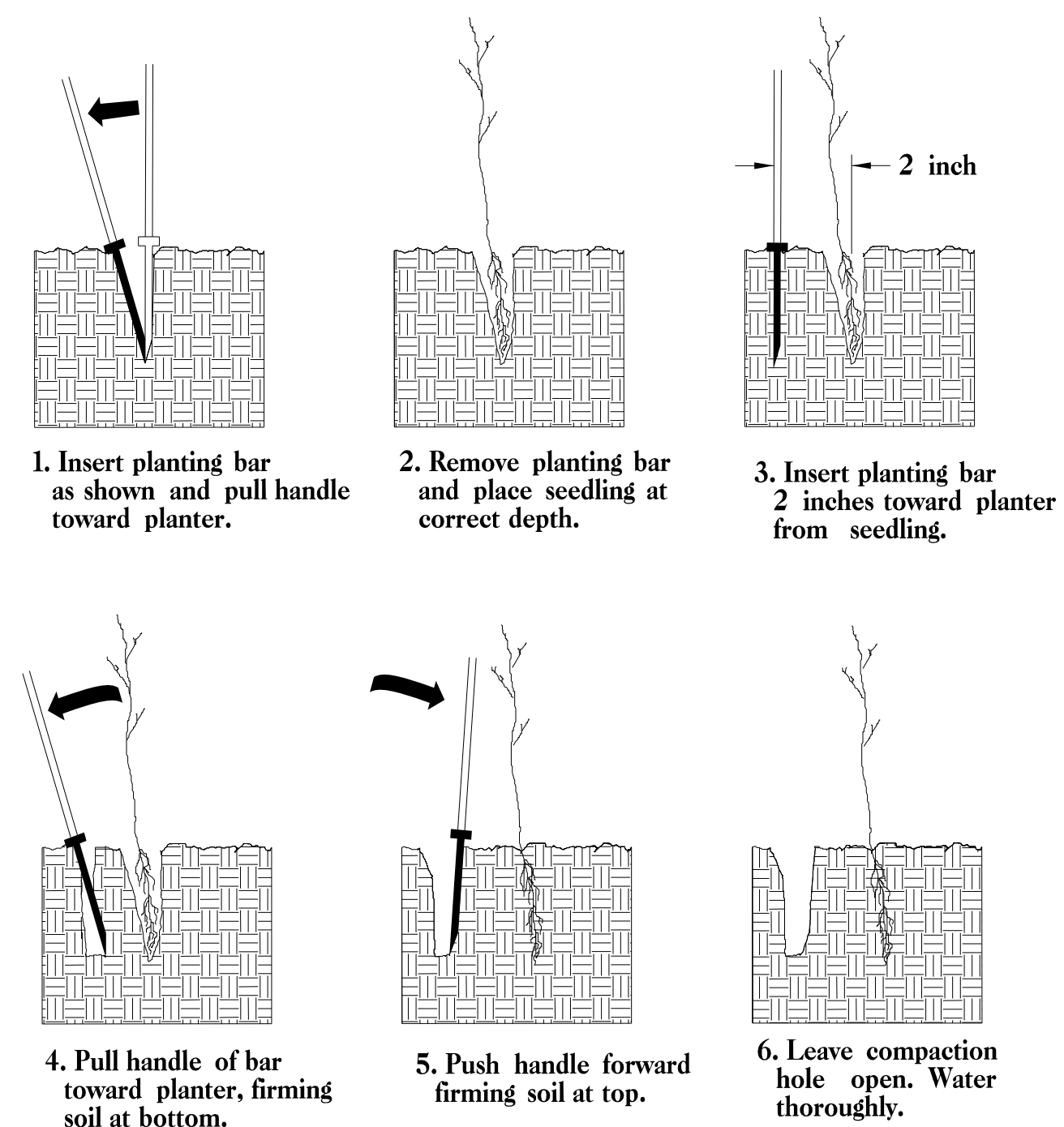
- 50% SALIX NIGRA BLACK WILLOW 2 ft - 3 ft LIVE STAKES
- 50% CORNUS AMOMUM SILKY DOGWOOD 2 ft - 3 ft LIVE STAKES

TYPE 2

- 25% LIRIODENDRON TULIPIFERA TULIP POPLAR 12 in - 18 in BR
- 25% PLATANUS OCCIDENTALIS SYCAMORE 12 in - 18 in BR
- 25% PRUNUS SEROTINA BLACK CHERRY 12 in - 18 in BR
- 25% BETULA NIGRA RIVER BIRCH 12 in - 18 in BR

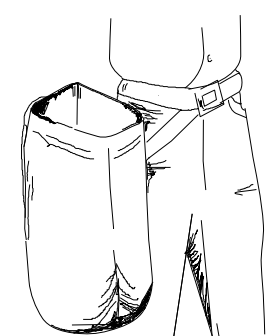
SEE PLAN SHEETS FOR AREAS TO BE PLANTED

BAREROOT PLANTING DETAIL DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR

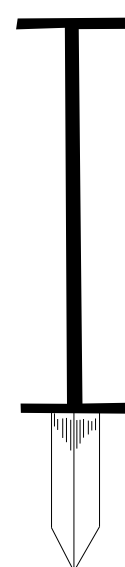


PLANTING NOTES:

PLANTING BAG
During planting, seedlings shall be kept in a moist canvas bag or similar container to prevent the root systems from drying.



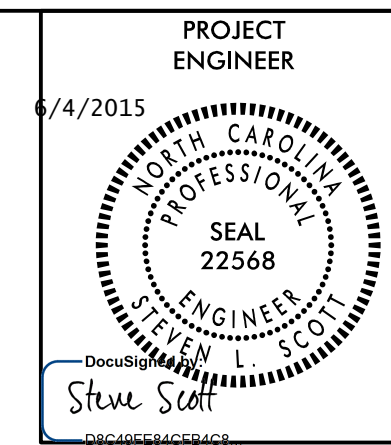
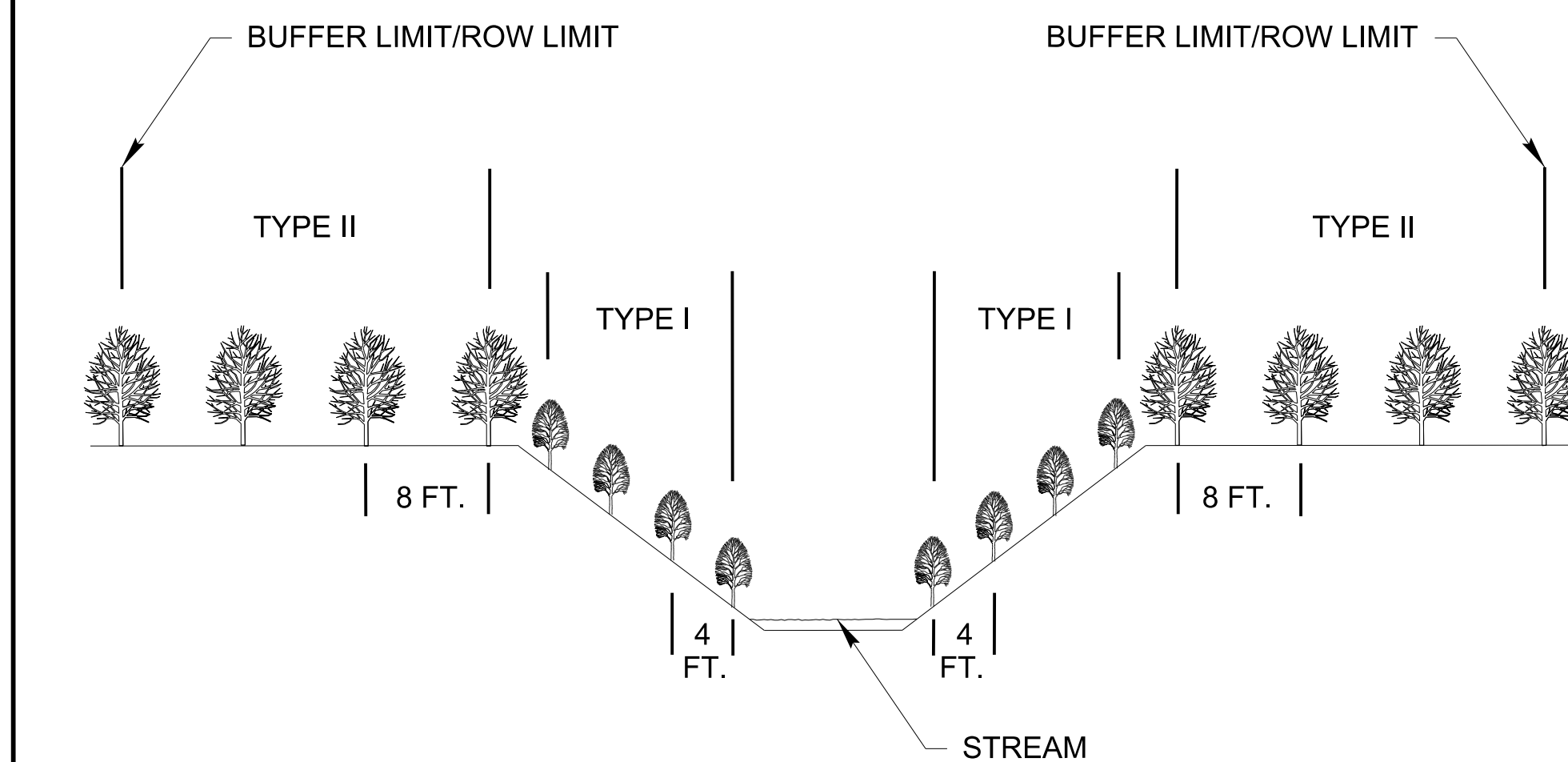
KBC PLANTING BAR
Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



ROOT PRUNING
All seedlings shall be root pruned, if necessary, so that no roots extend more than 10 inches below the root collar.

- TYPE 1 STREAMBANK REFORESTATION SHALL BE PLANTED 3 FT. TO 5 FT. ON CENTER, RANDOM SPACING, AVERAGING 4 FT. ON CENTER, APPROXIMATELY 2724 PLANTS PER ACRE.
- TYPE 2 STREAMBANK REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.
- NOTE: TYPE 1 AND TYPE 2 STREAMBANK REFORESTATION SHALL BE PAID FOR AS "STREAMBANK REFORESTATION"

STREAMBANK REFORESTATION TYPICAL



REVISIONS

STREAM GEOMETRY

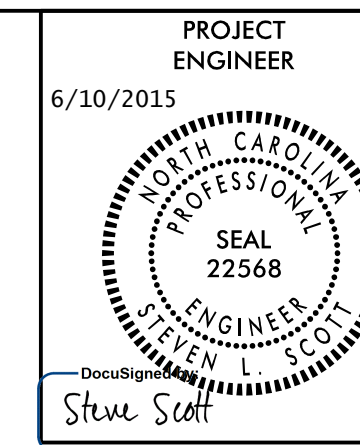
	PROPOSED ALIGNMENT STREAM RELOCATION				ARC CENTER	
	STATION	NORTHING	EASTING	RADIUS	NORTHING	EASTING
PT	10+00	623424.803	752995.588			
PC	10+52.96	623474.22	752976.53	35'	623482.50	752971.97
PT	10+71.90	623489.25	752965.38			
PC	11+60.82	623542.33	752877.64	40'	623545.94	752888.05
PT	11+74.82	623548.58	752881.58			
PC	12+40.42	623567.30	752818.71	30'	623577.53	752803.67

SUMMARY OF QUANTITIES

ITEM NUMBER	SEC	QUANTITIES	QUANTITY	UNIT
0000100000-N	800	MOBILIZATION	1.00	LS
6133000000-N	SP	GRADING FOR MITIGATION (WASTE #C.Y.)	1.00	LS
6133000000-N	SP	CONSTRUCTION SURVEYING FOR MITIGATION	1.00	LS
1077000000-E	SP	#57 STONE	35.00	TON
3628000000-E	876	RIP RAP CLASS I	27.00	TON
3642000000-E	876	RIP RAP CLASS A	56	TON
3649000000-E	876	RIP RAP CLASS B	12	TON
3656000000-E	876	GEOTEXTILE FOR DRAINAGE TYPE 2	345.00	SY
6133000000-N	SP	PUMP AROUND OPERATION	1.00	LS
3651000000-E	SP	BOULDERS	245.00	TON
6012000000-E	1610	SEDIMENT CONTROL STONE	1.00	TON
6070000000-N	1639	SPECIAL STILLING BASIN	1.00	EA
6084000000-E	1660	SEEDING AND MULCHING	0.35	AC
6015000000-E	1615	TEMPORARY MULCHING	0.35	AC
6126000000-E	SP	STREAMBANK REFORESTATION	0.51	AC



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STRUCTURE TABLE

#	STRUCTURE	STATION	INVERT ELEVATION
1	CROSS VANE	10+16.00	2155.89
2	CROSS VANE	10+43.95	2154.89
3	CROSS VANE	10+92.9	2153.39
4	CROSS VANE	11+14.90	2152.39
5	CROSS VANE	11+57.8	2151.28
6	CROSS VANE	11+79.80	2150.47
7	CROSS VANE	12+20.9	2149.25
8	CROSS VANE	12+44.90	2148.51

NOTE:

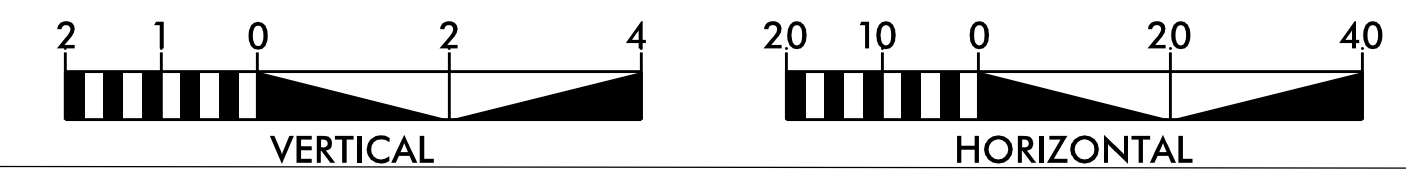
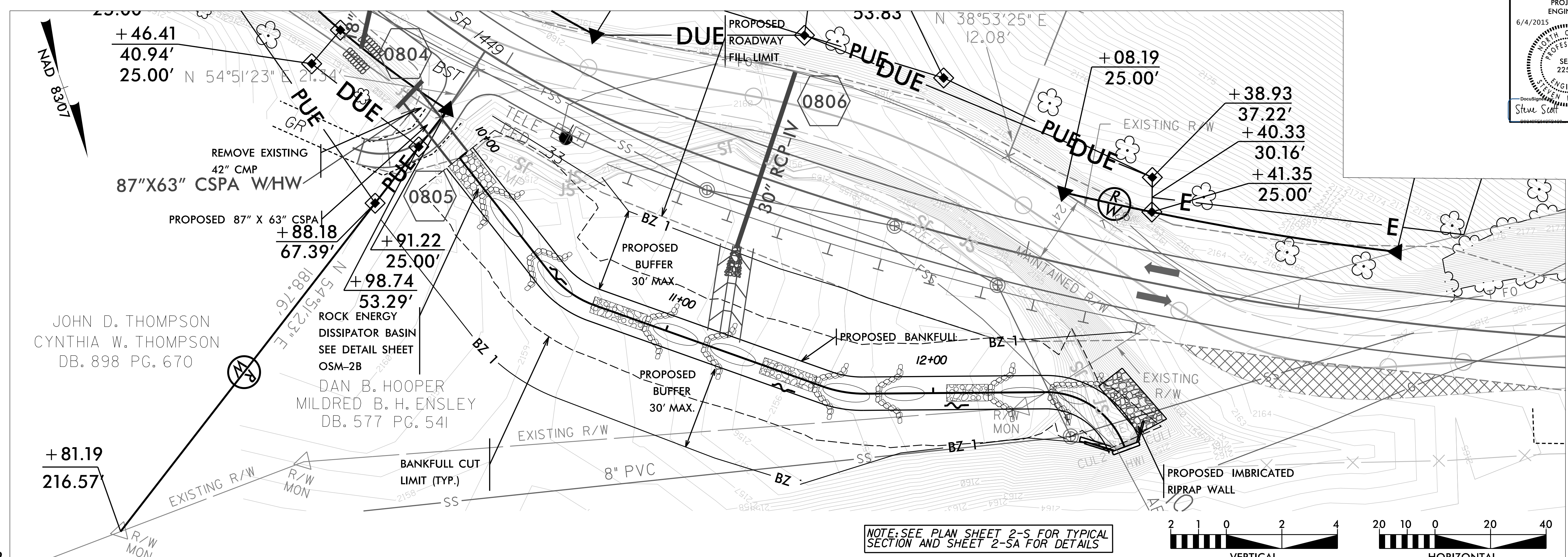
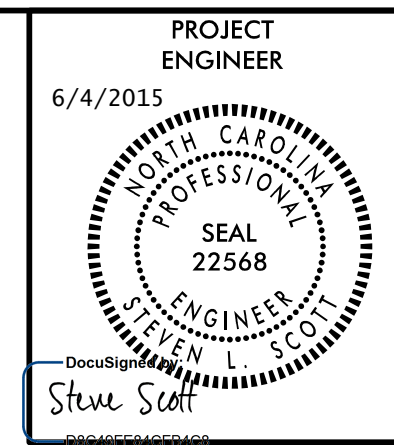
1. STATION REFERS TO THE UPSTREAM END OF THE VANE ARM OR THE INVERT OF THE HEADER ROCK IN THE CENTER OF THE CHANNEL ON CROSS VANES.
2. INVERT ELEVATION REFERS TO THE STREAMBED PROFILE ELEVATION AT THE CORRESPONDING STATION, WHICH IS THE ELEVATION THAT THE VANE INTERSECTS THE STREAMBED.

EARTHWORK SUMMARY IN CUBIC YARDS

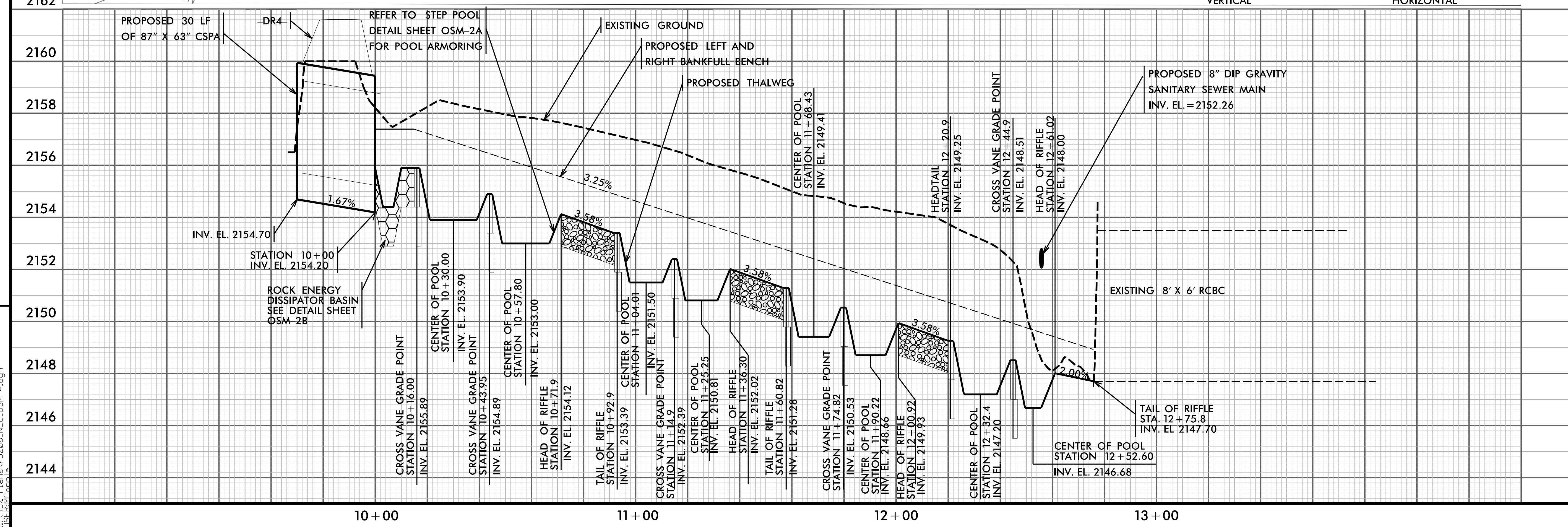
STREAM RELOCATION EXCAV. (CU.YD.)	FILL (CU.YD.)	WASTE (CU.YD.)
744	21	723

NOTE:

FILL QUANTITY IS IN ADDITION TO THAT REQUIRED FOR ROADWAY WORK.



NOTE: SEE PLAN SHEET 2-S FOR TYPICAL SECTION AND SHEET 2-SA FOR DETAILS



REVISIONS

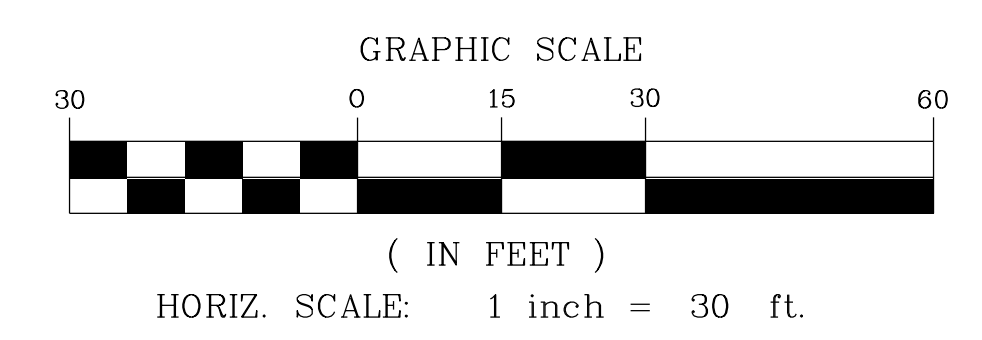
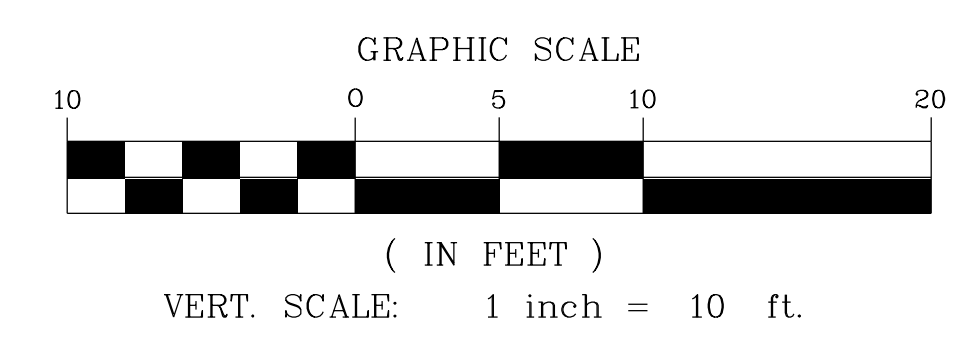
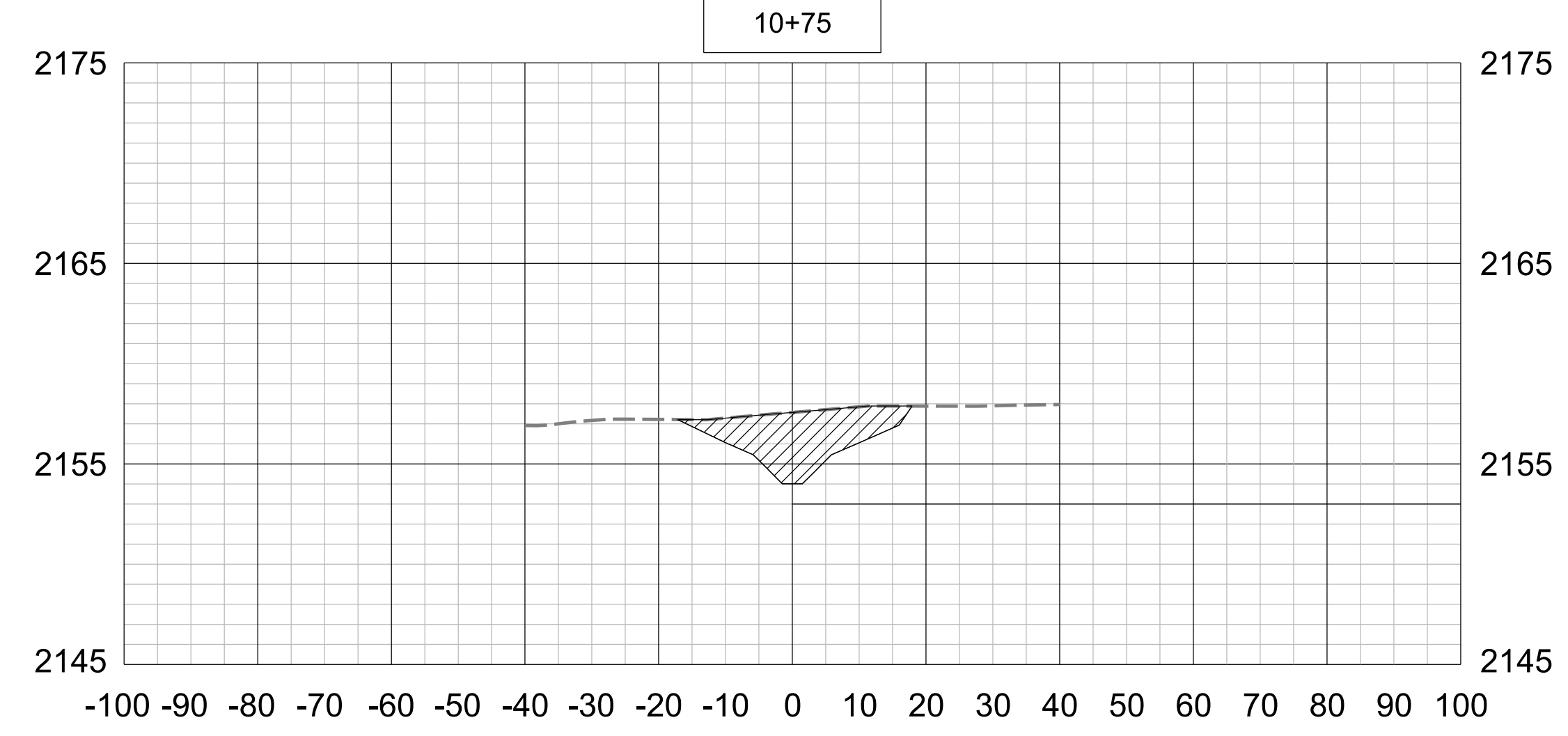
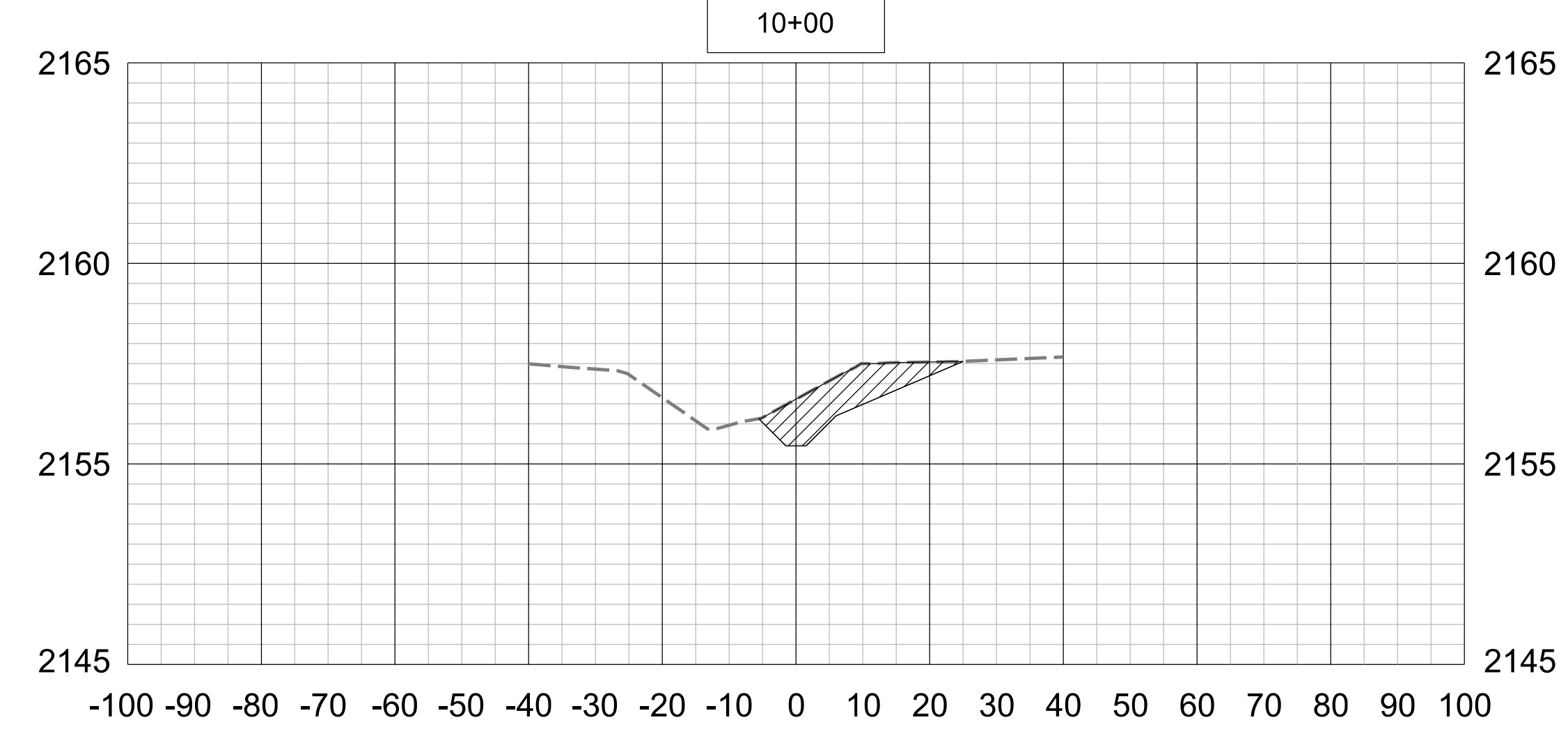
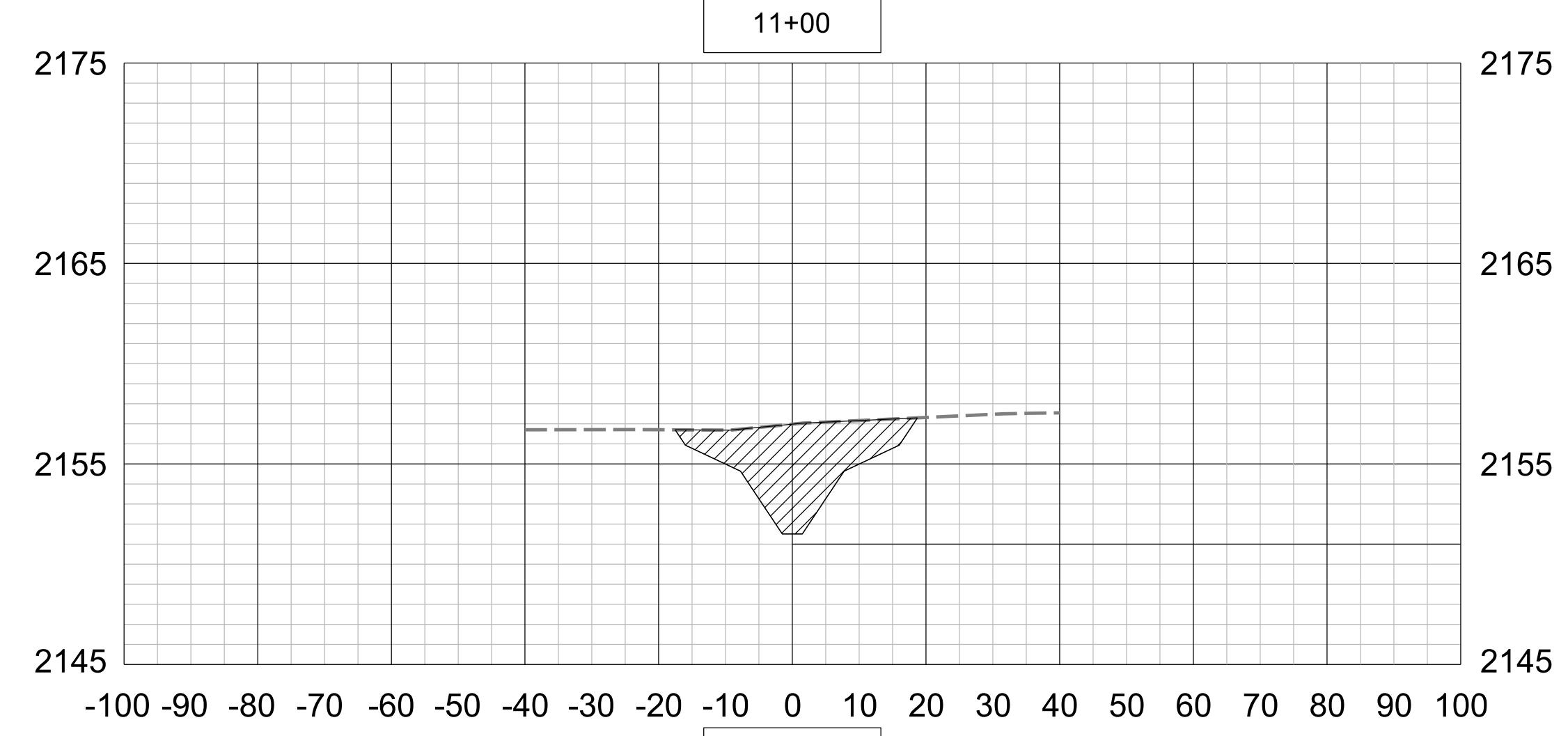
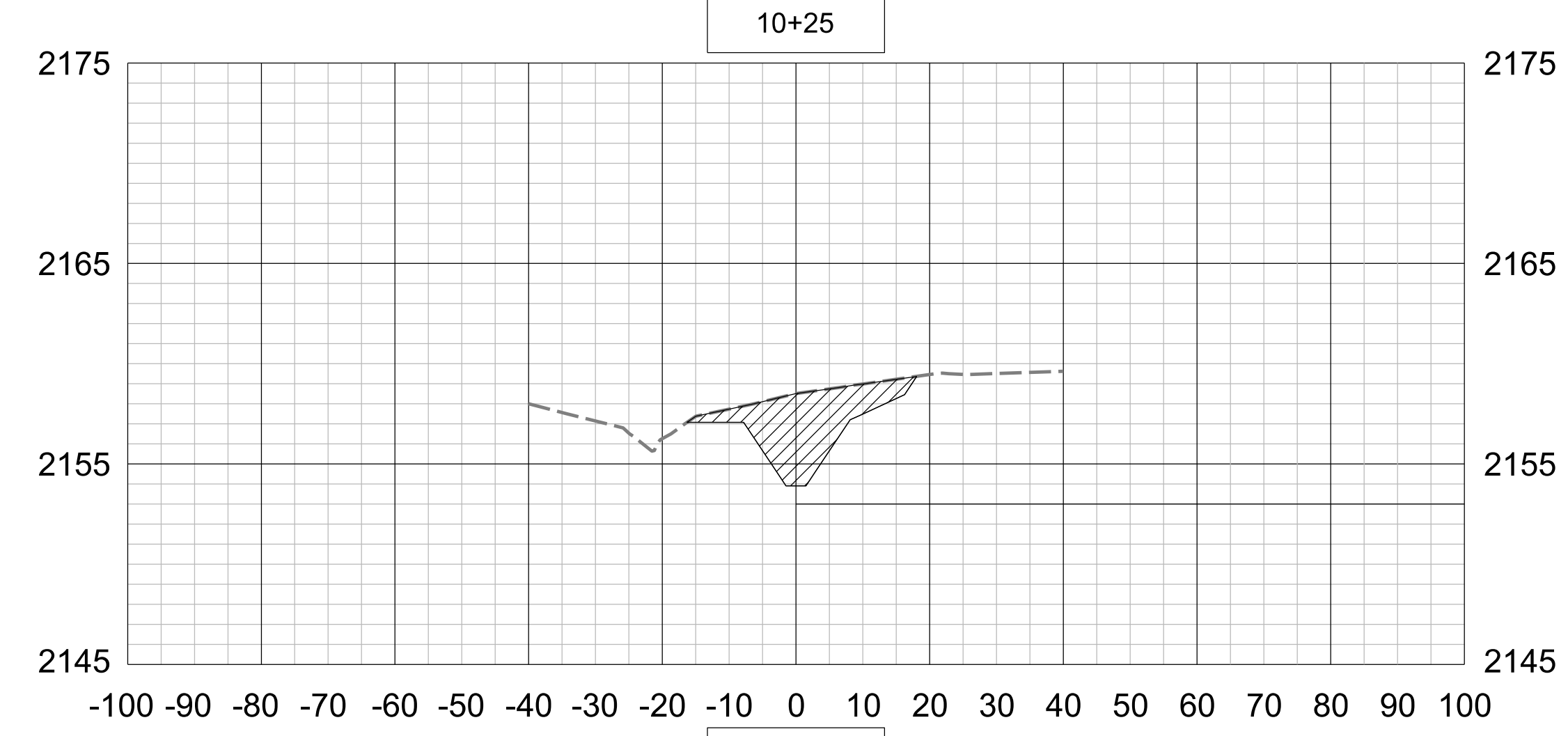
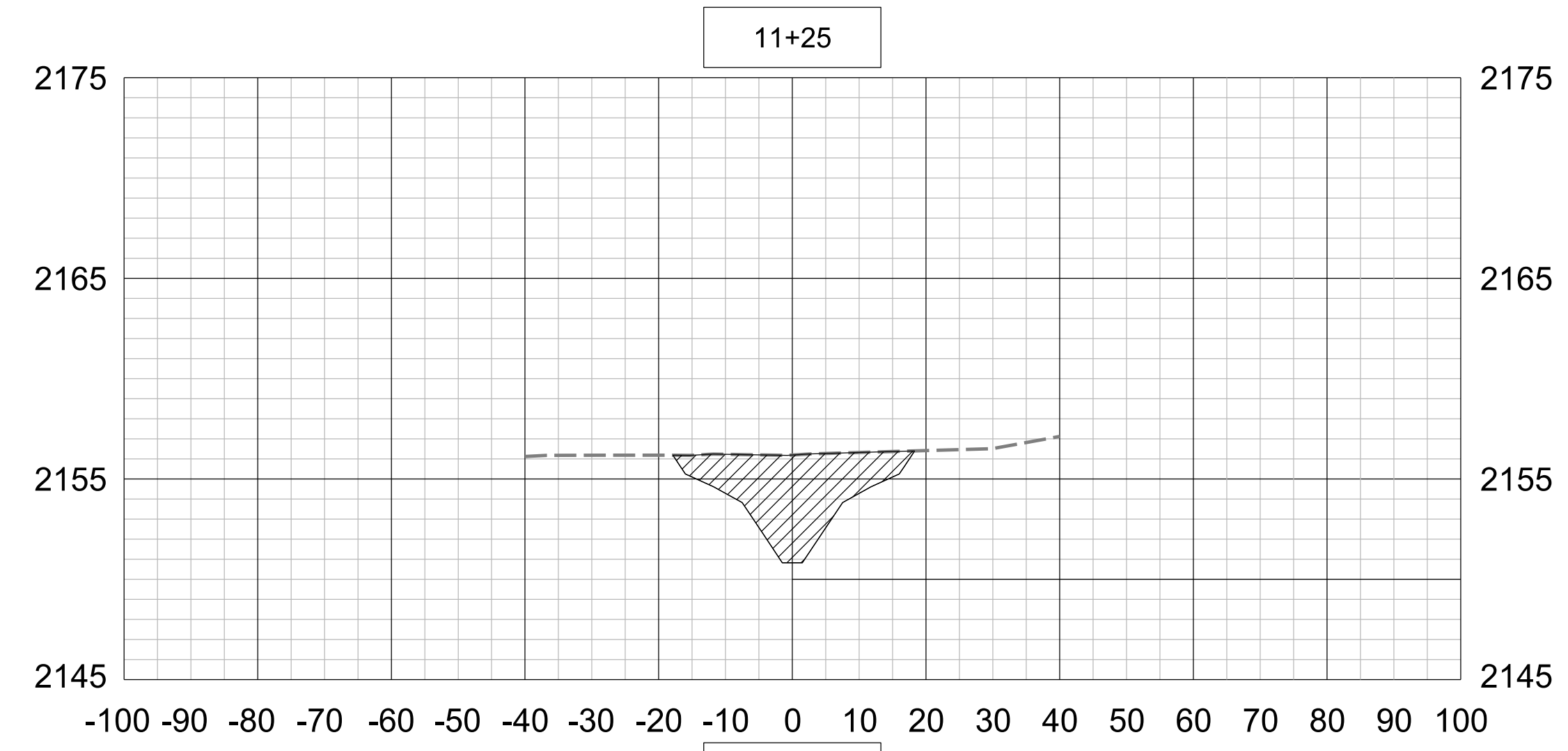
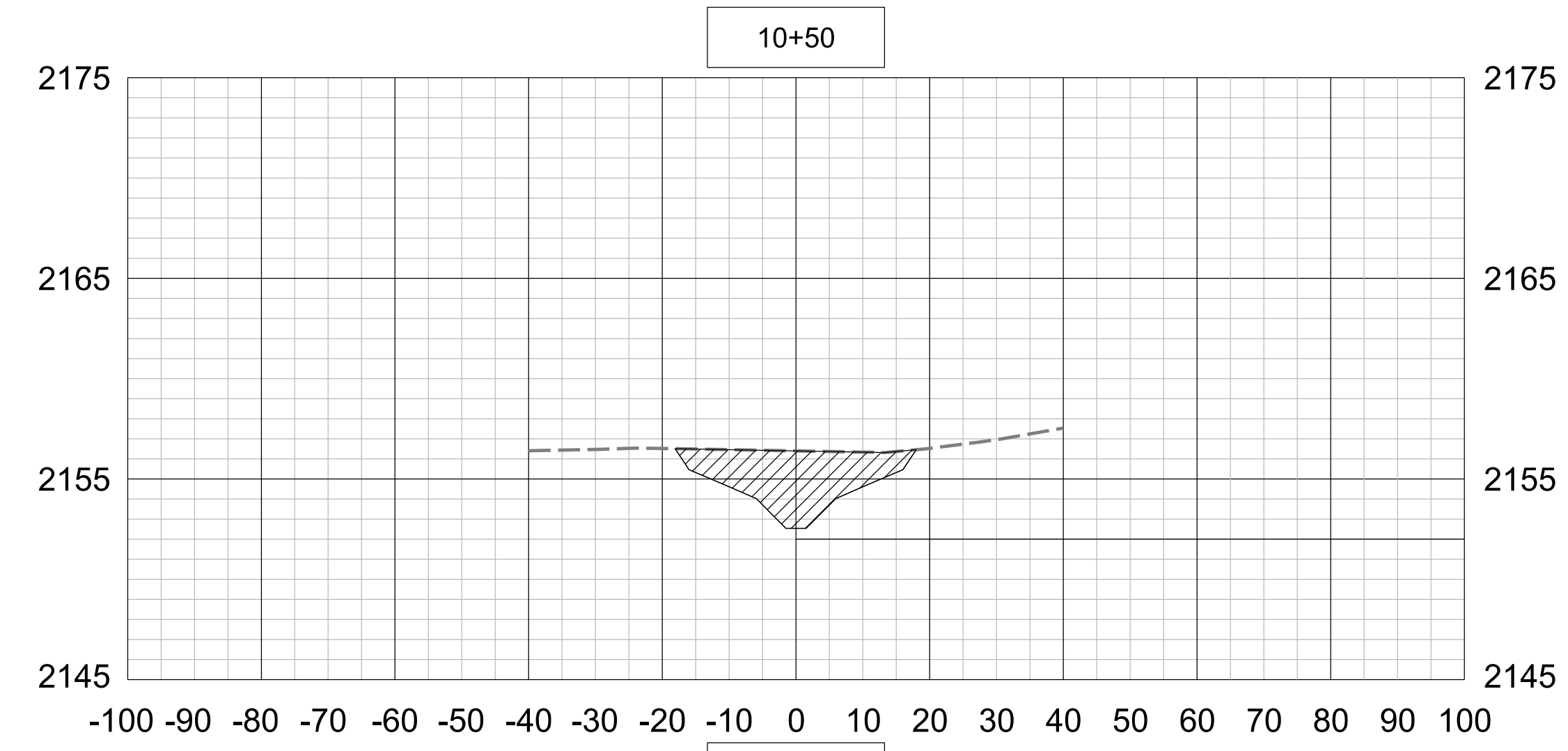
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PROJECT REFERENCE NO.	SHEET NO.
R-5206	OSM-5
RW SHEET NO.	

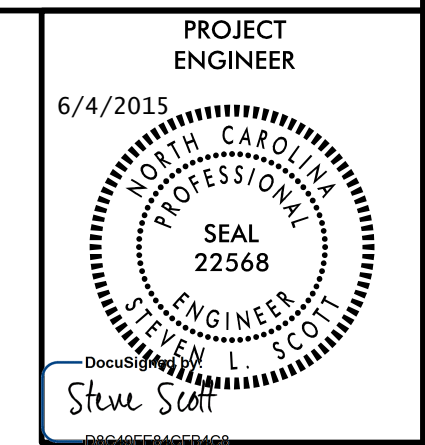
PROJECT ENGINEER
6/4/2015
NORTH CAROLINA PROFESSIONAL SEAL 22568
ENGINEER STEVEN L. SCOTT
DocuSign
Steve Scott

REVISIONS

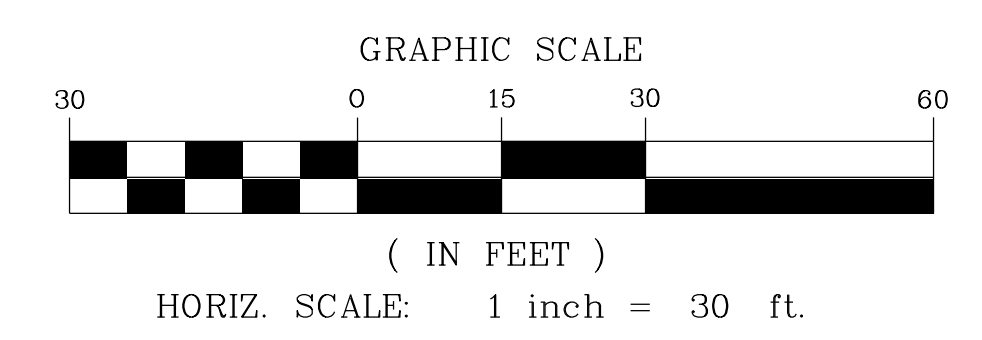
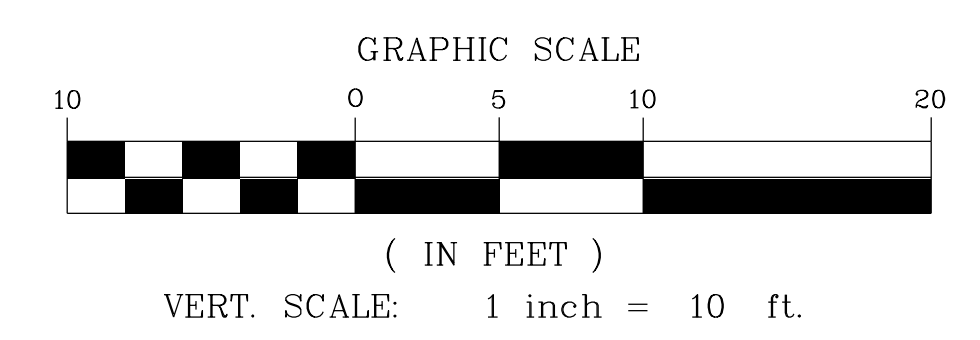
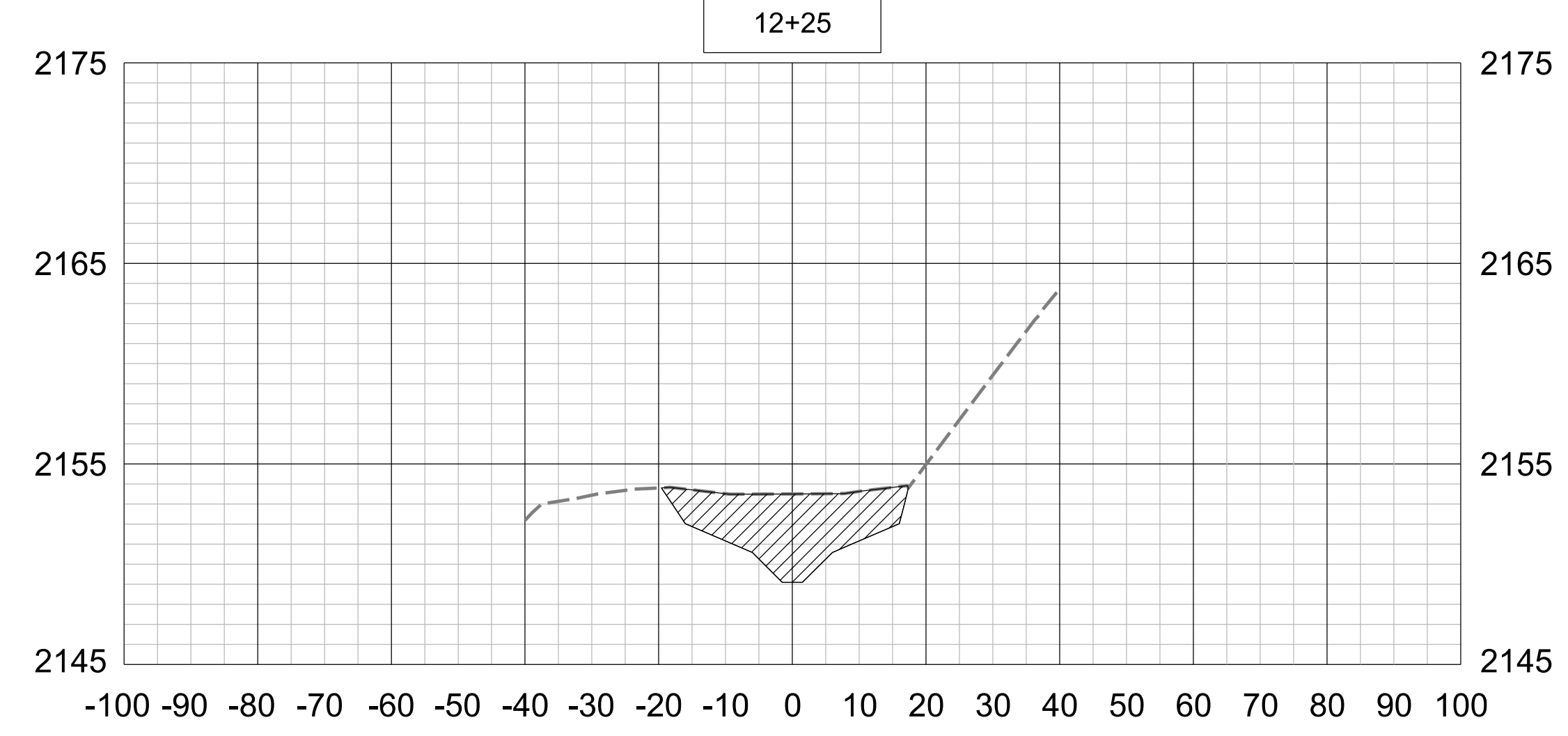
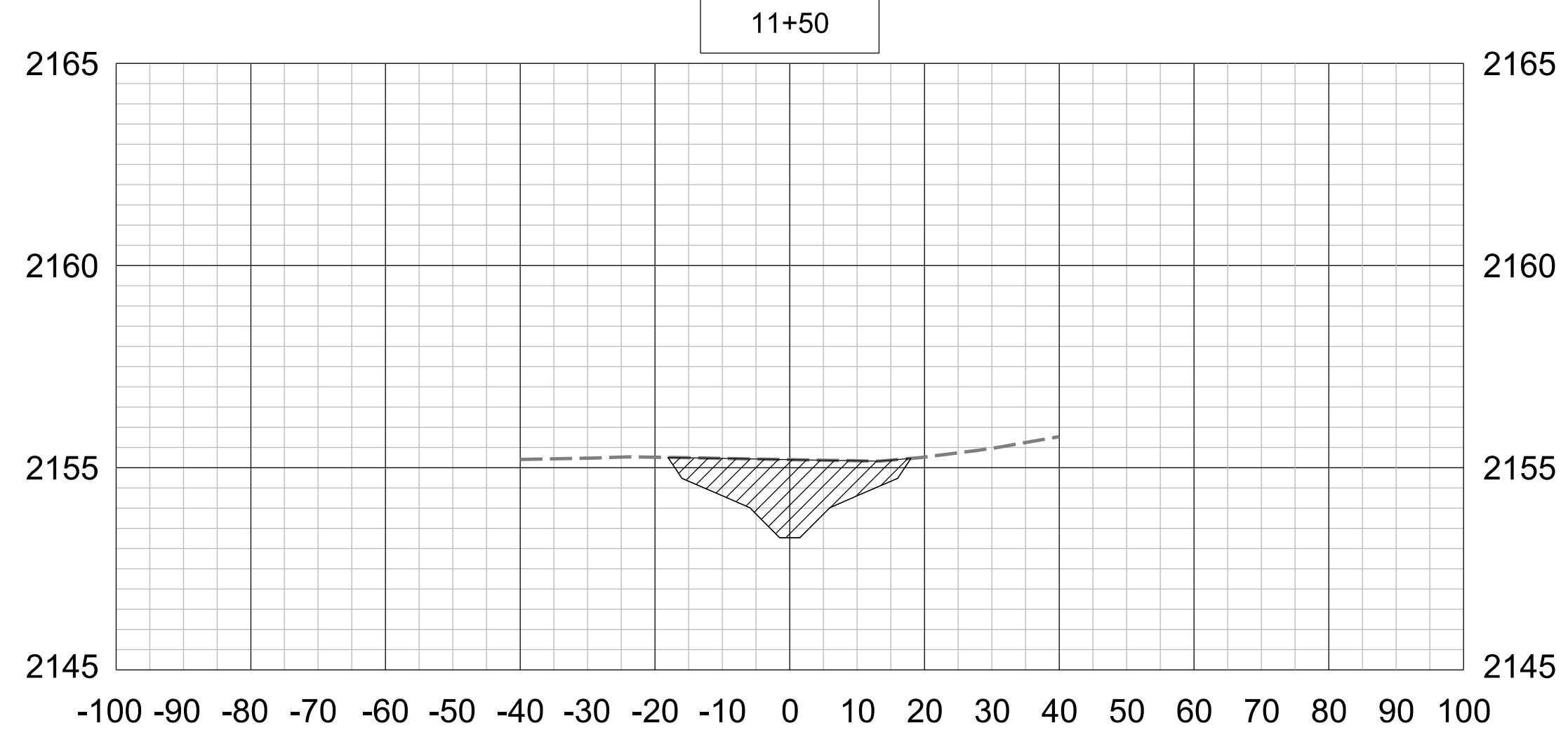
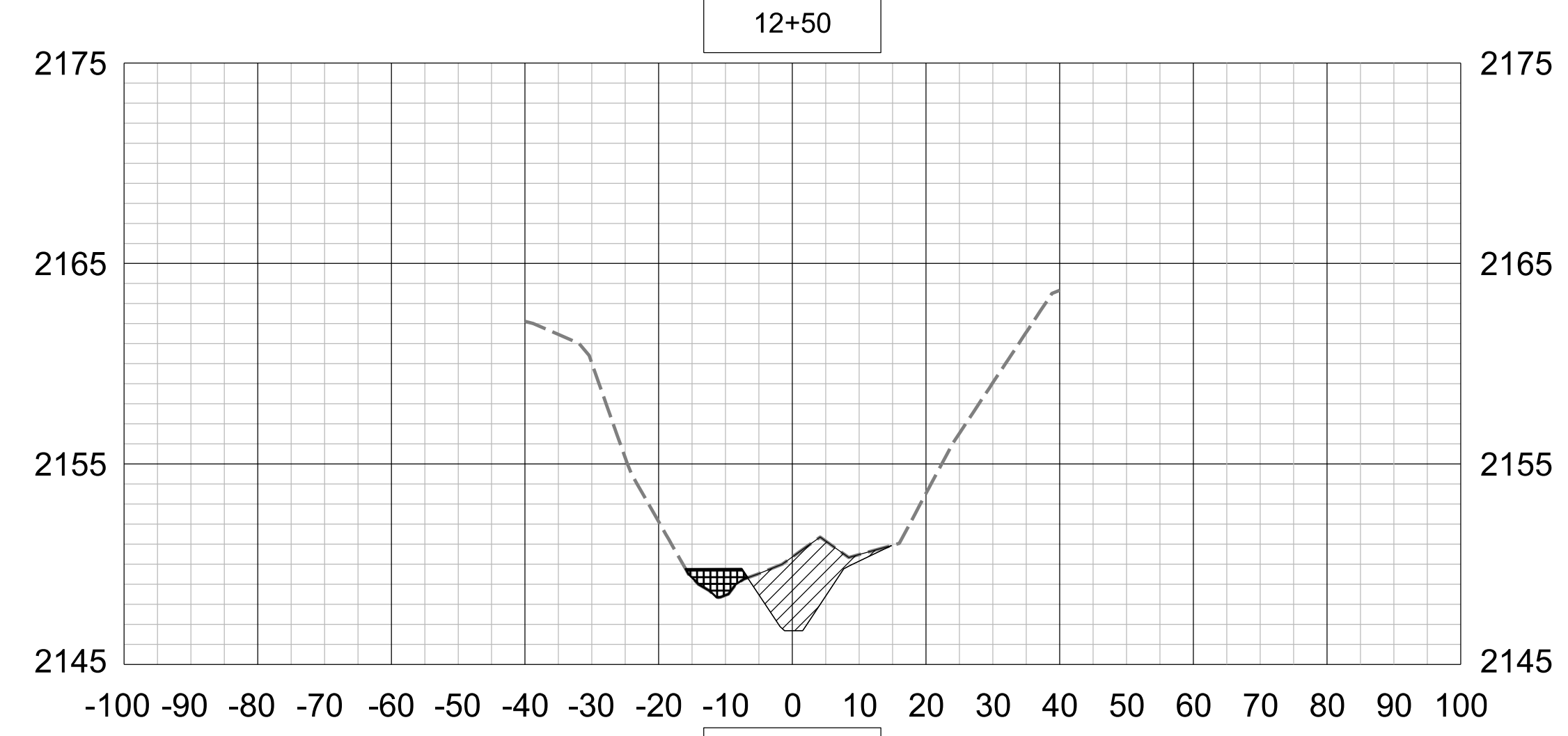
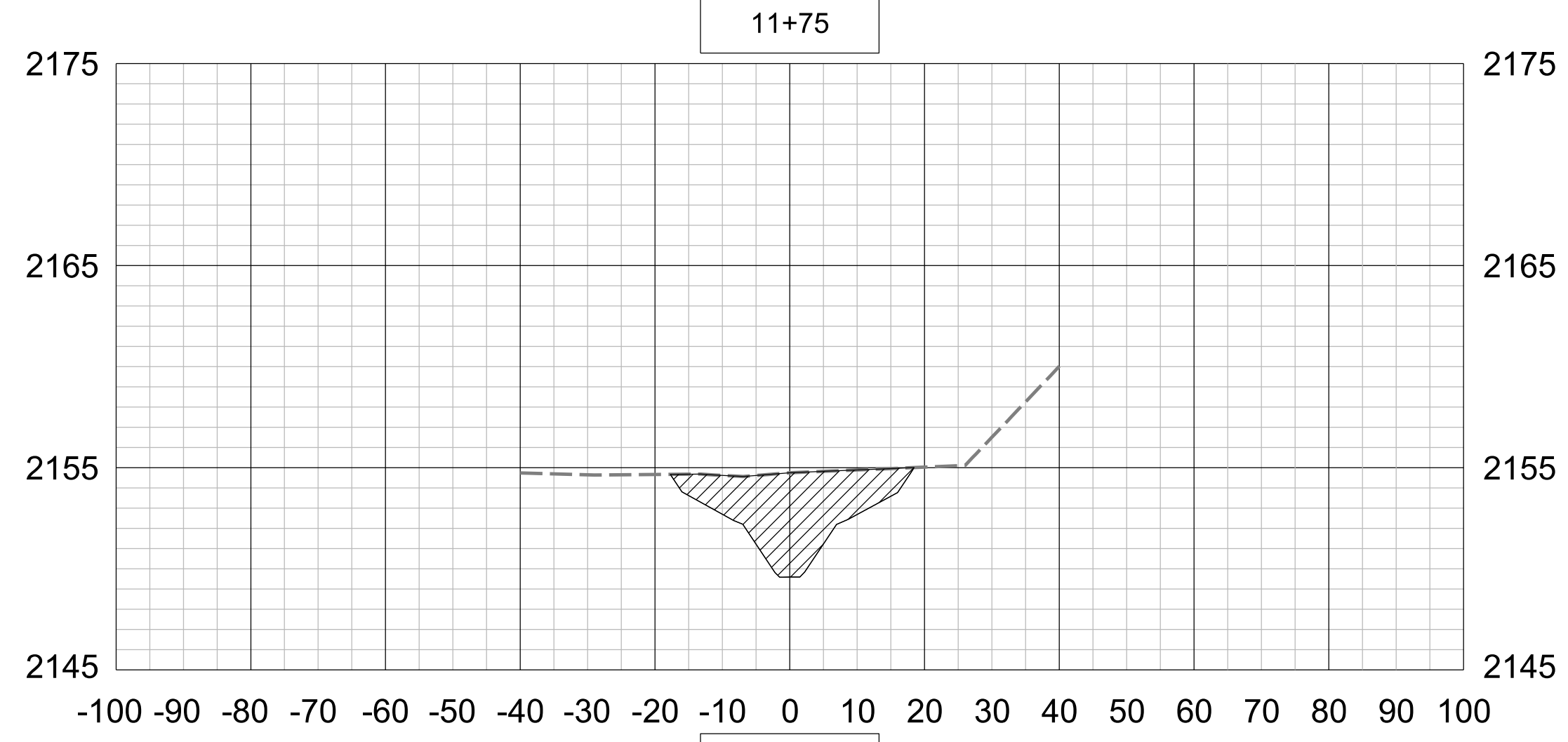
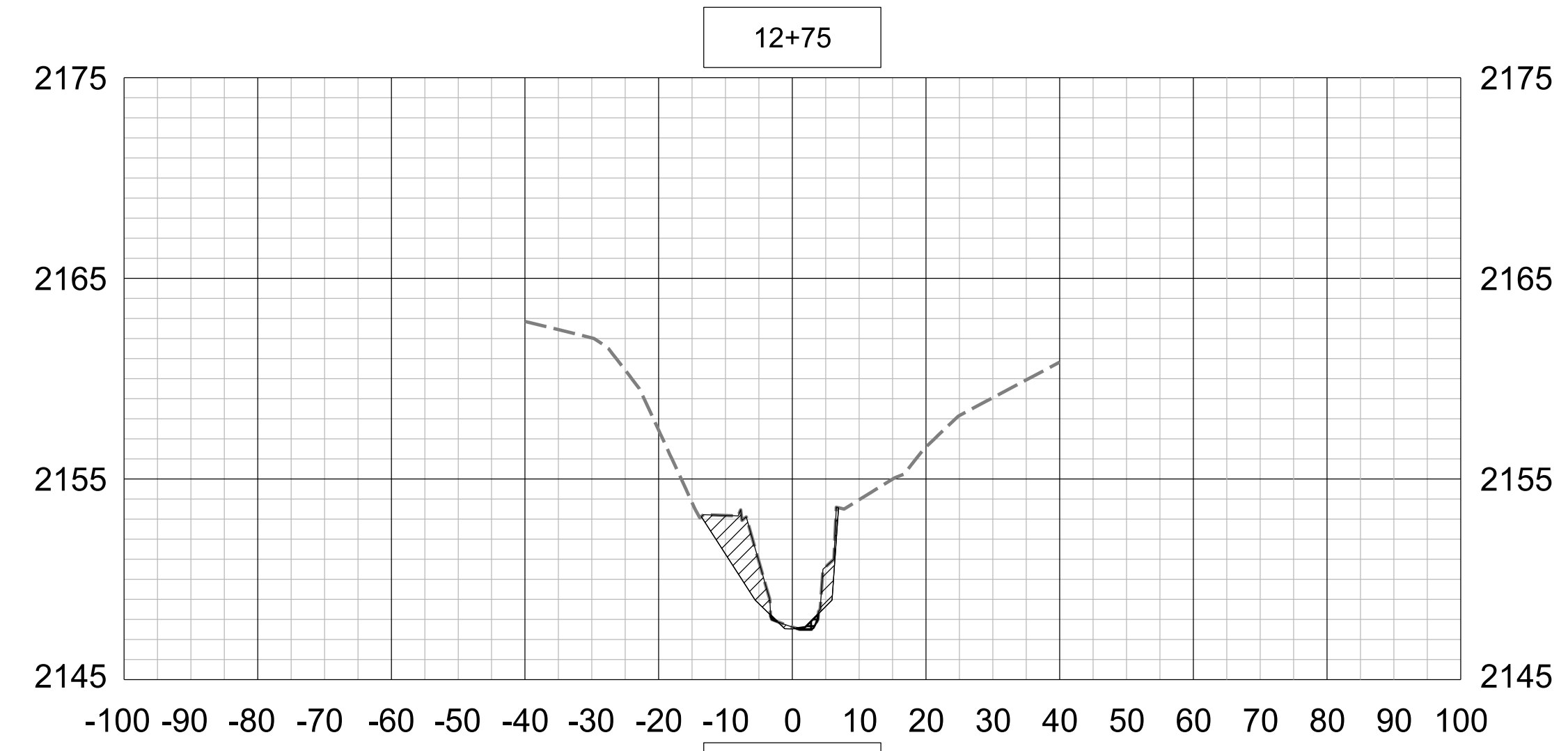
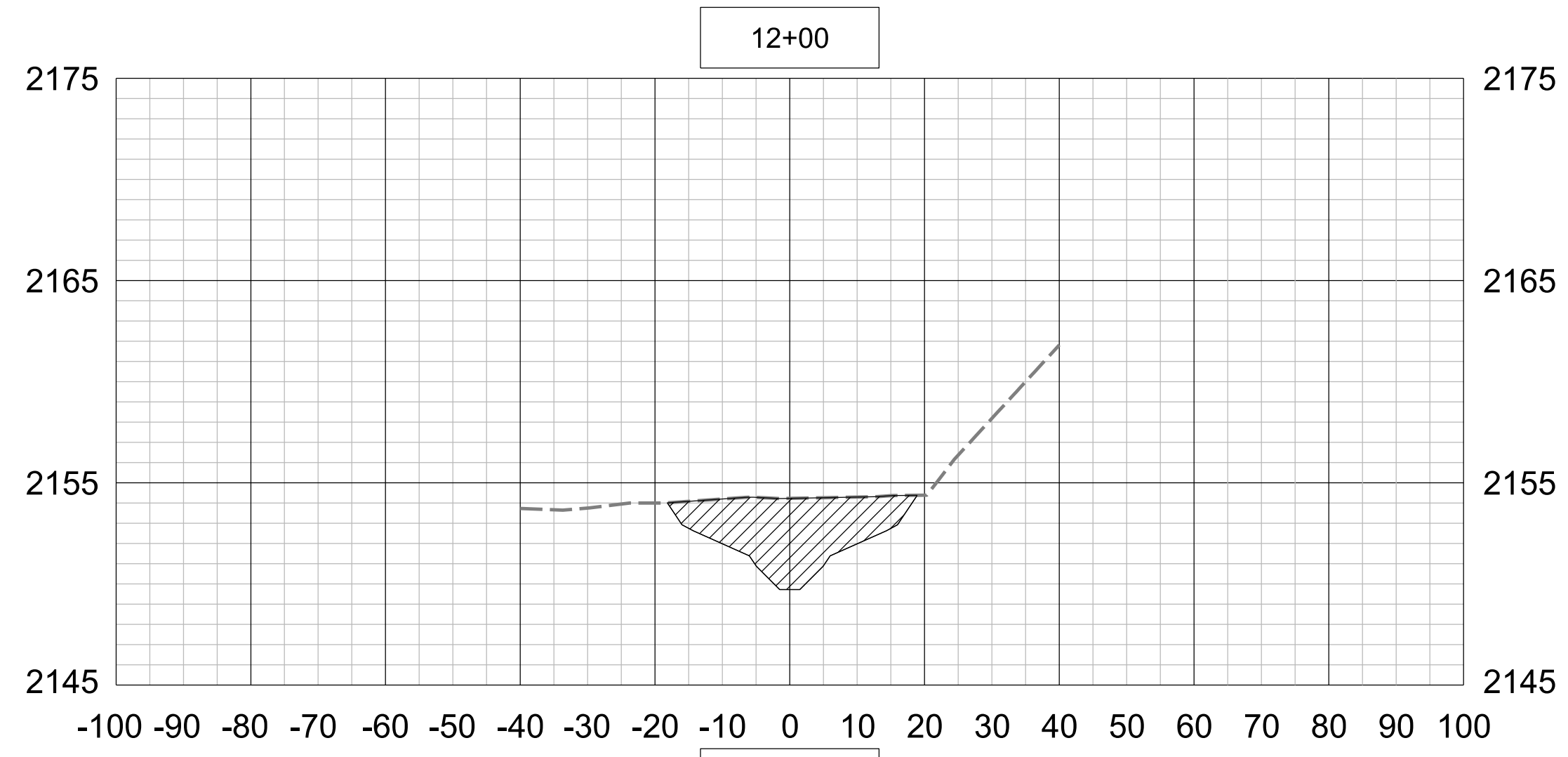


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PROJECT REFERENCE NO. <i>R-5206</i>	SHEET NO. <i>OSM-5A</i>
RW SHEET NO.	



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