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STANDARDS

- 000001 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001 TEMPORARY EROSION CONTROL SYSTEMS

**STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES**

**BLACKBERRY CREEK
DAM REMOVAL AND CHANNEL RESTORATION PHASE 2**

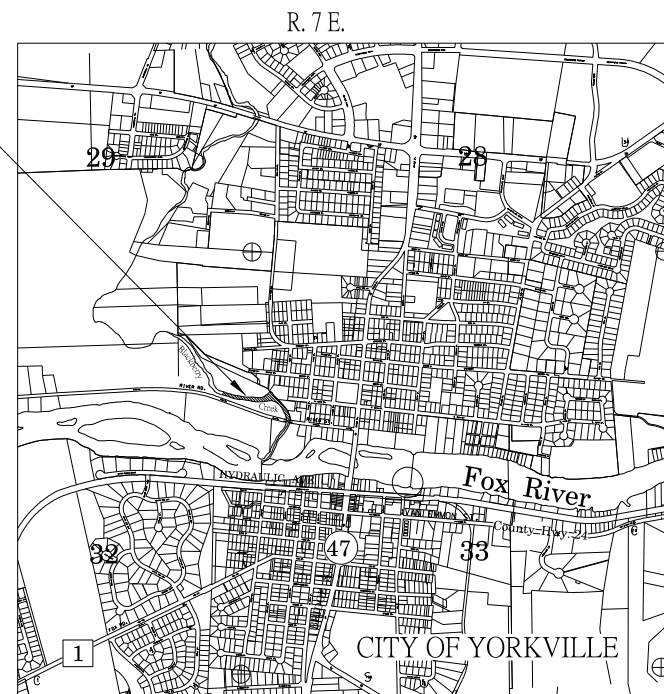
**YORKVILLE, ILLINOIS
KENDALL COUNTY**

**FR-433
2012**

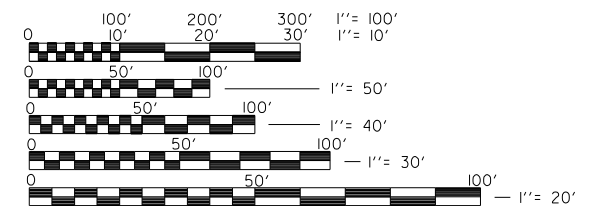
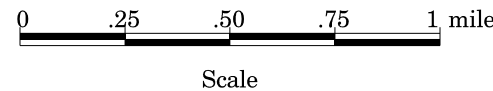


REGIONAL MAP

Project Location



LOCATION MAP



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

Ted Montrey 8/2/12
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-049591
LICENSE EXPIRES 11-30-13



APPROVED BY *Calvin J. Ferrell* DATE 8-23-12
DIRECTOR

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8/24/2012

Designed By JUF checked By TMM
Drawn By JUF checked By TMM

SUMMARY OF QUANTITIES			
CODE NO.	PAY ITEM	UNIT	QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.32
20200100	EARTH EXCAVATION	CU YD	1,274
20300100	CHANNEL EXCAVATION	CU YD	12,933
20300200	ROCK EXCAVATION IN CHANNEL	CU YD	864
25000314	SEEDING, CLASS 4B	ACRE	0.08
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	10
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	10
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1,130
25100900	TURF REINFORCEMENT MAT	SQ YD	2,138
28100109	STONE RIPRAP, CLASS A5	SQ YD	2,294
28100113	STONE RIPRAP, CLASS A7	SQ YD	1,755
28200200	FILTER FABRIC	SQ YD	4,049
*67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6
67100100	MOBILIZATION	L SUM	1
A2001716	TREE, ACER SACCHARIUM (SUGAR MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	8
A2005816	TREE, PLANTUS OCCIDENTALIS (SYCAMORE), 2" CALIPER, BALLED AND BURLAPPED	EACH	2
A2006716	TREE, QUERCUS MACROCARPA (BURR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	7
A2006916	TREE, QUERCUS PALUSTRUS (PIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4
A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4
A3005010	TREE, GYMNOCLADUS DIDICUS (KENTUCKY COFFEE), 1 1/4" CALIPER, BARE ROOT	EACH	3
D2002224	EVERGREEN, PICEA PUNGENS GLAUCA (COLORADO BLUE SPRUCE) 2' HEIGHT, BALLED AND BURLAPPED	EACH	3
*	TEMPORARY COFFERDAM SYSTEM	L SUM	1
*	6" TOPSOIL PLACEMENT	CU YD	1,120
*	SEEDING, MULCHING AND FERTILIZING	ACRE	0.69
*	SEEDING AND FERTILIZING	ACRE	0.73
*	CONSTRUCTION STAKING	L SUM	1
*	WOOD INFORMATION SIGNS	EACH	2
*	MASONRY REMOVAL AND DISPOSAL	CU YD	273
*	MASONRY REMOVAL AND STOCKPILE	CU YD	273

UTILITY REFERENCE TABLE

J.U.L.I.E.	Call 48 hours prior to construction	(800) 892-0123
City of Yorkville Water & Sewer	Eric Dhuse, Director of Public Works 800 Game Farm Road Yorkville, IL 60560	(630) 553-4370
Electricity	Commonwealth Edison	(800) 334-7661
Telephone/SBC	John Evers, Plan Engineer 40 S. Mitchell Court Addison, IL 60101	(630) 620-3897
Gas	Monty Johns Nicor Gas	(815) 433-3850 Ext.244
Sewer	Kevin Collman Yorkville-Bristol Sanitary District 304 River Street Yorkville, IL 60560	(630) 553-7657
Dam	Floyd Mansberger Fever River Research Springfield, IL IllinoisArchaeology.com Contact to measure, photograph, and document the existing dam prior to removal.	(217) 525-9002

GENERAL NOTES

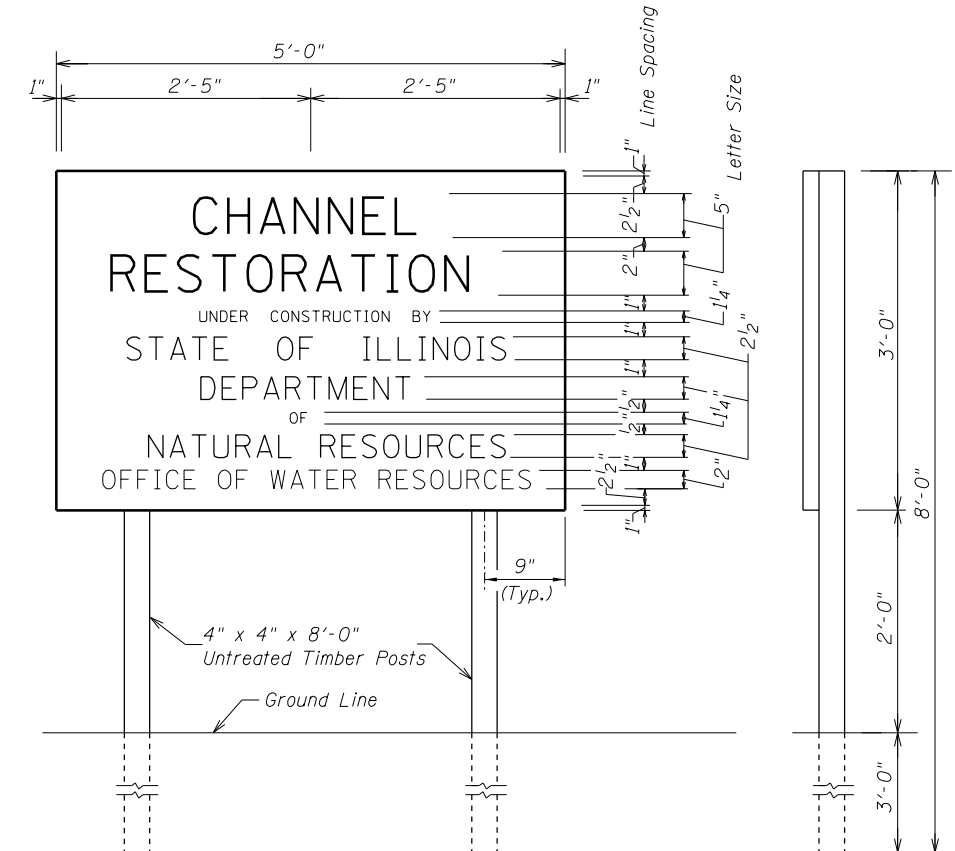
- All elevations refer to N.G.V.D. (National Geodetic Vertical Datum) 1929. All coordinates are NAD 1983 with 1986 Adjustment.
- The Contractor shall furnish, erect, and when directed by the Engineer, completely remove two construction signs (see below). The location of the signs shall be determined by the Engineer in the field.
- All lateral drainage that exists prior to construction shall be restored as shown on the plans and as directed by the Engineer. Unless otherwise specified all costs of restoration shall be considered included in the Contract and no additional compensation will be allowed.
- All construction operations shall be contained within the property lines or work limits as indicated on the plans and as directed and approved by the Engineer. It shall be the full responsibility of the Contractor to secure all rights of ingress and egress to said Right - of - Way including the satisfactory protection and restoration of property as required in Art. 107.20 and 107.23 of the Standard Specifications. Cost of restoration is incidental to the Contract.
- The Contractor shall call J.U.L.I.E. (800-892-0123) for the location of existing utilities 48 hours prior to beginning construction.
- Plan dimensions and details relative to existing structures have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- All excess excavation and unsuitable materials shall be disposed of at locations provided by the Contractor at his expense and at locations inspected and approved by the Engineer.
- The Contractor is reminded to protect and restore at his expense, in accordance with Article 107.20 of the Standard Specifications, any private or public property, including access roads, which may be damaged or destroyed due to construction operations.
- The Contractor shall take due care while excavating near existing structures. Any damages caused by the construction activity shall be corrected at the expense of the contractor.

GENERAL NOTES

Signs shall be made of 3/4" plywood or oxbord, or of metal (18 ga.). The Contractor shall furnish all material and labor for constructing and erecting the signs. The signs shall be placed prior to the starting of actual construction operations at each end of the construction section or as directed by the Engineer. Before any sign is erected, it shall be approved by the Engineer as to its appearance and quality of construction. The signs shall remain in place and shall be maintained in satisfactory condition until the project is accepted by the department. The Contractor shall then remove the signs and the material will become his property.

The letters on the sign shall be black mechanical style on a white background and appropriate border lines.

Paid for as Wood Information Signs.



WOOD INFORMATION SIGNS

* INDICATES NON-STANDARD ITEM COVERED BY SPECIAL PROVISION

TREE REMOVAL, ACRES	
LOCATION	ACRES
0+35 - 1+53 LT	0.02
1+71 - 4+66 LT	0.18
7+27 - 10+40 LT	0.09
11+94 - 12+52 RT	0.03
TOTAL	0.32

SEEDING & EROSION CONTROL SCHEDULE									
LOCATION	SEEDING, MULCHING & FERTIL.	SEEDING, & FERTIL.	TEMPORARY EROSION CONTROL SEEDING	TURF REIN-FORCEMENT MAT	HEAVY DUTY EROSION CONTROL BLANKET	SEEDING, CLASS 4B	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
		ACRE	POUND	SQ YD	SQ YD				
0+16 - 11+95 LT		0.20	10	1,146					
0+08 - 11+95 RT		0.24	12	992					
WETLAND BERM		0.29	14		768				
WETLAND CHANNEL CONNECTION AREA 8+66.24			4		362	0.08	10	10	10
6+98 RT DIVERSION TRENCH #1	0.10		5						
12+34 RT DIVERSION TRENCH #2	0.08		4						
HAUL ROAD & CONSTRUCTION ENTRANCE AT JC POND	0.42		21						
CONSTRUCTION ENTRANCE TO WETLANDS NORTH OF RIVER STREET	0.07		4						
CONSTRUCTION ENTRANCE TO SPOIL SITE SOUTH OF RIVER STREET	0.02		1						
TOTAL	0.69	0.73	75	2,138	1,130	0.08	10	10	10

STONE RIPRAP, CLASS A5 & FILTER FABRIC		
LOCATION	SIDESLOPES	SQ YD
	LT 3+95-7+44	493
	LT 7+92-11+47	731
	RT 3+95-7+44	444
	RT 7+92-11+47	626
	TOTAL	2,294

TREE PLANTINGS			
LOCATION			
	AROUND JC PARK POND	WETLAND AREA SOUTH OF BLACKBERRY CREEK	TOTAL
KENTUCKY COFFEE TREE	3		3
SYCAMORE	2		2
BURR OAK	3	4	7
SUGAR MAPLE	3	5	8
RED OAK		4	4
PIN OAK		4	4
COLORADO BLUE SPRUCE		3	3

STONE RIPRAP, CLASS A7 & FILTER FABRIC	
LOCATION	SQ YD
RIFFLE #1	293
RIFFLE #2	293
RIFFLE #3	293
LT 0+10 - 3+47	441
RT 0+08 - 3+47	435
TOTAL	1,755

SCHEDULE OF EARTHWORK					
LOCATION	CHANNEL EXCAVATION CU YD	ROCK EXCAVATION IN CHANNEL CU YD	EMBANKMENT CU YD	6" TOPSOIL PLACEMENT FROM ONSITE STOCKPILED MATERIAL	EARTH EXCAVATION (SURPLUS OF STOCKPILED MATL. TO BE DISPOSED OF) CU YD
0+13 - 11+95	10,868				
0+35.5 - 11+95			763		
0+08 - 11+95				576	
6+98 RT DIVERSION TRENCH #1	405				
WETLAND CHANNEL CONNECTION AREA 8+66.24	1,200				
12+34 RT DIVERSION TRENCH #2	460				
HAUL ROAD & CONSTRUCTION ENTRANCE AT JC POND					
CONSTRUCTION ENTRANCE TO WETLANDS NORTH OF RIVER STREET					
CONSTRUCTION ENTRANCE TO SPOIL SITE SOUTH OF RIVER STREET				544	
PHASE I SPOIL SITES AT J C POND AND YBSD PROPERTY SOUTH OF RIVER ROAD					1,274
RIFFLE LOCATIONS (Riffle toes only)		23			
0+00-11+95 TOE IN FOR CHANNEL RIPRAP		841			
TOTAL	12,933	864	763	1,120	1,274

MASONRY REMOVAL AND DISPOSAL	
LOCATION	CU YD
0+02 - 0+19	273

MASONRY REMOVAL AND STOCKPILE	
LOCATION	CU YD
0+02 - 0+19	273

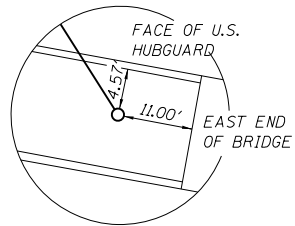
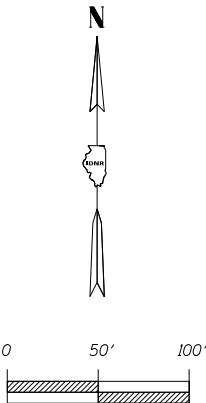
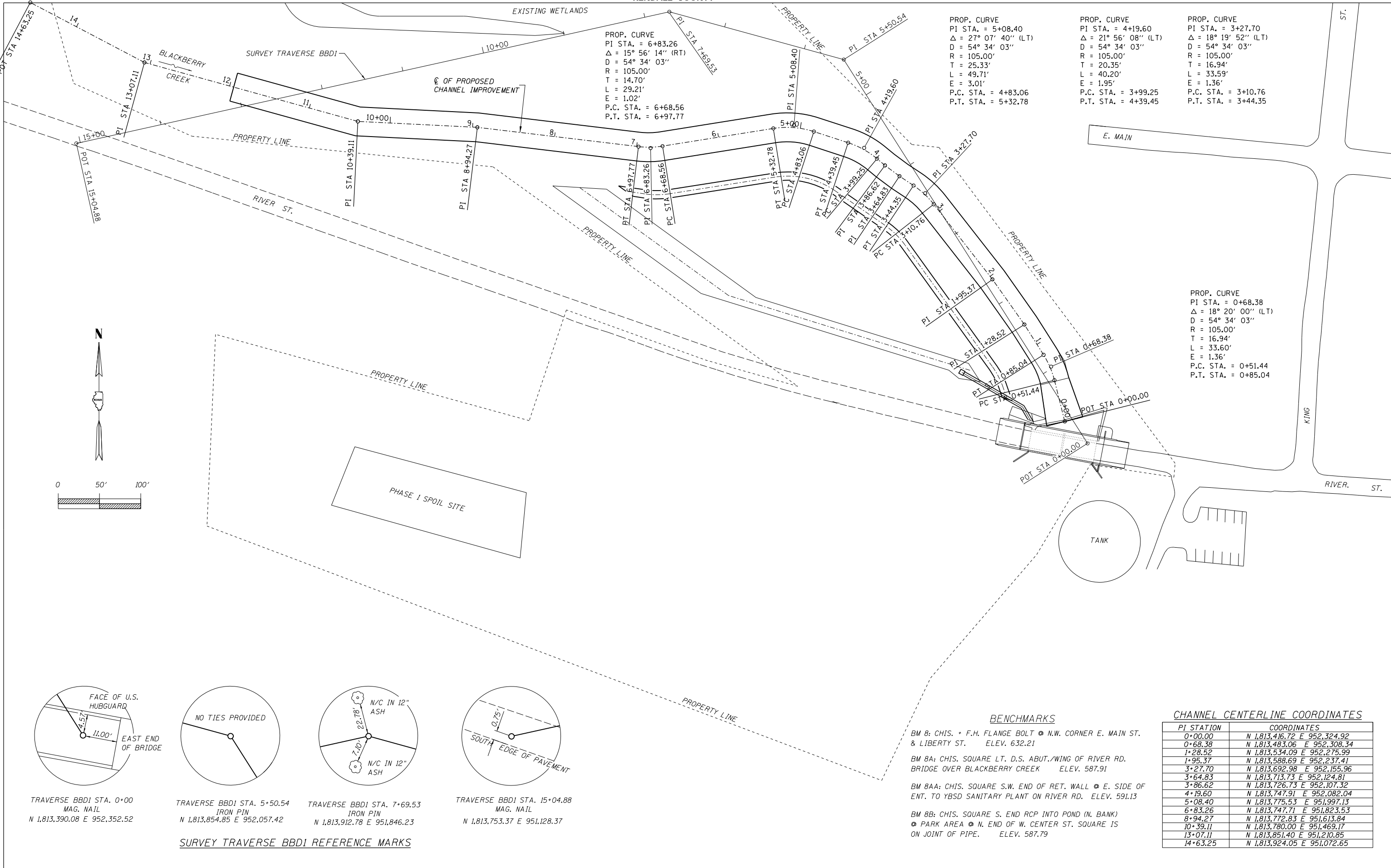
CA-3 HAUL ROAD REMOVAL (NOT A PAY ITEM)	
LOCATION	CU YD
HAUL ROAD AND CONSTRUCTION ENTRANCES AT JC POND, WETLANDS AREA, AND SPOIL SITE SOUTH OF RIVER STREET	544
TOTAL	544

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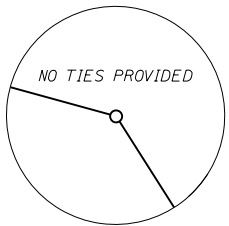
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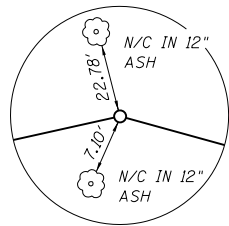
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CHECKED BY: TMM
DRAWN BY: JJF
CHECKED BY: TMM



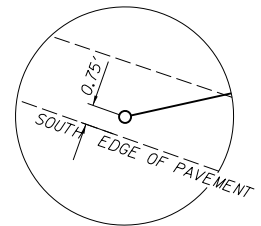
TRAVERSE BBD1 STA. 0+00
MAG. NAIL
N 1,813,390.08 E 952,352.52



TRAVERSE BBD1 STA. 5+50.54
IRON PIN
N 1,813,854.85 E 952,057.42



TRAVERSE BBD1 STA. 7+69.53
IRON PIN
N 1,813,912.78 E 951,846.23



TRAVERSE BBD1 STA. 15+04.88
MAG. NAIL
N 1,813,753.37 E 951,128.37

SURVEY TRAVERSE BBD1 REFERENCE MARKS

PROP. CURVE
PI STA. = 6+83.26
 $\Delta = 15^\circ 56' 14''$ (RT)
D = 54° 34' 03"
R = 105.00'
T = 14.70'
L = 29.21'
E = 1.02'
P.C. STA. = 6+68.56
P.T. STA. = 6+97.77

PROP. CURVE
PI STA. = 5+08.40
 $\Delta = 27^\circ 07' 40''$ (LT)
D = 54° 34' 03"
R = 105.00'
T = 25.33'
L = 49.71'
E = 3.01'
P.C. STA. = 4+83.06
P.T. STA. = 5+32.78

PROP. CURVE
PI STA. = 4+19.60
 $\Delta = 21^\circ 56' 08''$ (LT)
D = 54° 34' 03"
R = 105.00'
T = 20.35'
L = 40.20'
E = 1.95'
P.C. STA. = 3+99.25
P.T. STA. = 4+39.45

PROP. CURVE
PI STA. = 3+27.70
 $\Delta = 18^\circ 19' 52''$ (LT)
D = 54° 34' 03"
R = 105.00'
T = 16.94'
L = 33.59'
E = 1.36'
P.C. STA. = 3+10.76
P.T. STA. = 3+44.35

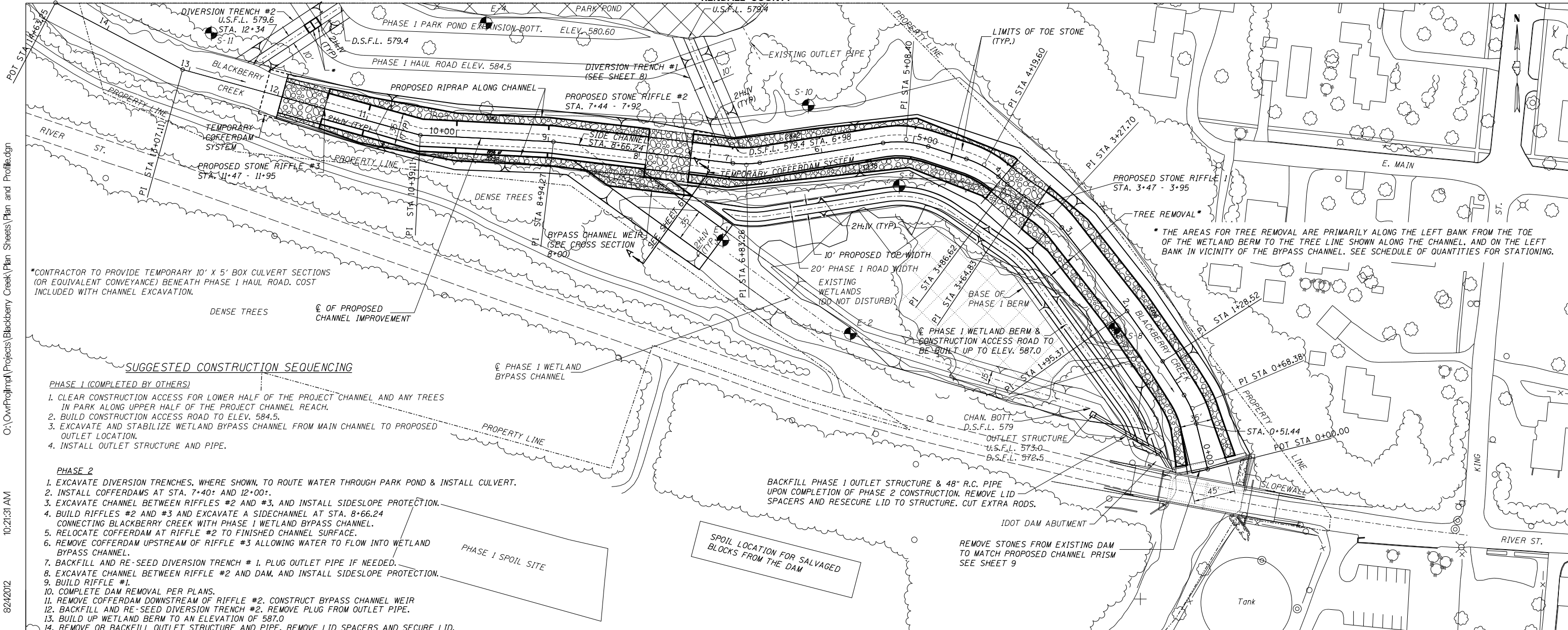
PROP. CURVE
PI STA. = 0+68.38
 $\Delta = 18^\circ 20' 00''$ (LT)
D = 54° 34' 03"
R = 105.00'
T = 16.94'
L = 33.60'
E = 1.36'
P.C. STA. = 0+51.44
P.T. STA. = 0+85.04

BENCHMARKS

- BM 8: CHIS. + F.H. FLANGE BOLT @ N.W. CORNER E. MAIN ST. & LIBERTY ST. ELEV. 632.21
- BM 8A: CHIS. SQUARE LT. D.S. ABUT./WING OF RIVER RD. BRIDGE OVER BLACKBERRY CREEK ELEV. 587.91
- BM 8AA: CHIS. SQUARE S.W. END OF RET. WALL @ E. SIDE OF ENT. TO YBSD SANITARY PLANT ON RIVER RD. ELEV. 591.13
- BM 8B: CHIS. SQUARE S. END RCP INTO POND (N. BANK) @ PARK AREA @ N. END OF W. CENTER ST. SQUARE IS ON JOINT OF PIPE. ELEV. 587.79

CHANNEL CENTERLINE COORDINATES

PI STATION	COORDINATES
0+00.00	N 1,813,416.72 E 952,324.92
0+68.38	N 1,813,483.06 E 952,308.34
1+28.52	N 1,813,534.09 E 952,275.99
1+95.37	N 1,813,588.69 E 952,237.41
3+27.70	N 1,813,692.98 E 952,155.96
3+64.83	N 1,813,713.73 E 952,124.81
3+86.62	N 1,813,726.73 E 952,107.32
4+19.60	N 1,813,747.91 E 952,082.04
5+08.40	N 1,813,775.53 E 951,997.13
6+83.26	N 1,813,747.71 E 951,823.53
8+94.27	N 1,813,772.83 E 951,613.84
10+39.11	N 1,813,780.00 E 951,469.17
13+07.11	N 1,813,851.40 E 951,210.85
14+63.25	N 1,813,924.05 E 951,072.65



*CONTRACTOR TO PROVIDE TEMPORARY 10' X 5' BOX CULVERT SECTIONS (OR EQUIVALENT CONVEYANCE) BENEATH PHASE 1 HAUL ROAD. COST INCLUDED WITH CHANNEL EXCAVATION.

* THE AREAS FOR TREE REMOVAL ARE PRIMARILY ALONG THE LEFT BANK FROM THE TOE OF THE WETLAND BERM TO THE TREE LINE SHOWN ALONG THE CHANNEL, AND ON THE LEFT BANK IN VICINITY OF THE BYPASS CHANNEL. SEE SCHEDULE OF QUANTITIES FOR STATIONING.

SUGGESTED CONSTRUCTION SEQUENCING

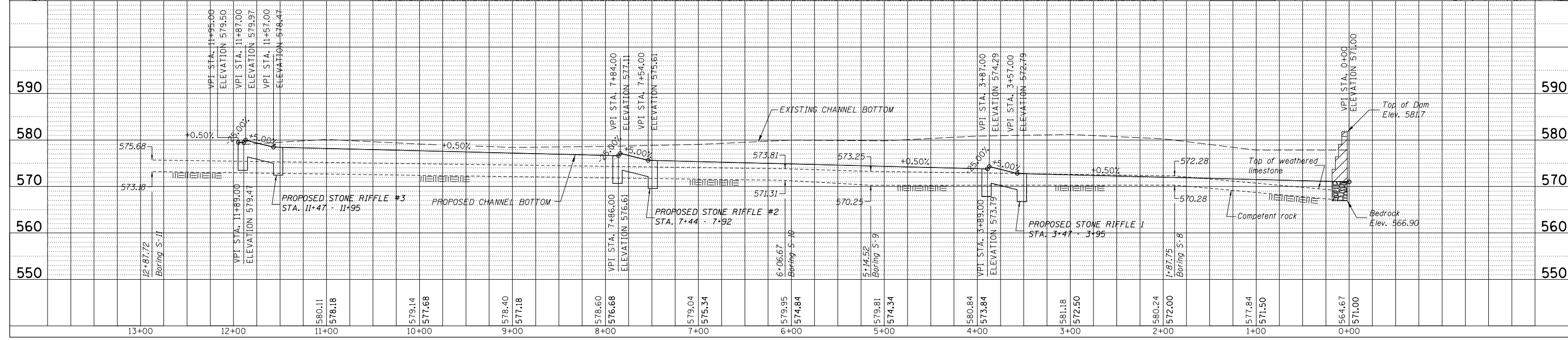
- PHASE 1 (COMPLETED BY OTHERS)**
1. CLEAR CONSTRUCTION ACCESS FOR LOWER HALF OF THE PROJECT CHANNEL AND ANY TREES IN PARK ALONG UPPER HALF OF THE PROJECT CHANNEL REACH.
 2. BUILD CONSTRUCTION ACCESS ROAD TO ELEV. 584.5.
 3. EXCAVATE AND STABILIZE WETLAND BYPASS CHANNEL FROM MAIN CHANNEL TO PROPOSED OUTLET LOCATION.
 4. INSTALL OUTLET STRUCTURE AND PIPE.
- PHASE 2**
1. EXCAVATE DIVERSION TRENCHES, WHERE SHOWN, TO ROUTE WATER THROUGH PARK POND & INSTALL CULVERT.
 2. INSTALL COFFERDAMS AT STA. 7+40+ AND 12+00+.
 3. EXCAVATE CHANNEL BETWEEN RIFFLES #2 AND #3, AND INSTALL SIDESLOPE PROTECTION.
 4. BUILD RIFFLES #2 AND #3 AND EXCAVATE A SIDECANNEL AT STA. 8+66.24 CONNECTING BLACKBERRY CREEK WITH PHASE 1 WETLAND BYPASS CHANNEL.
 5. RELOCATE COFFERDAM AT RIFFLE #2 TO FINISHED CHANNEL SURFACE.
 6. REMOVE COFFERDAM UPSTREAM OF RIFFLE #3 ALLOWING WATER TO FLOW INTO WETLAND BYPASS CHANNEL.
 7. BACKFILL AND RE-SEED DIVERSION TRENCH # 1. PLUG OUTLET PIPE IF NEEDED.
 8. EXCAVATE CHANNEL BETWEEN RIFFLE #2 AND DAM, AND INSTALL SIDESLOPE PROTECTION.
 9. BUILD RIFFLE #1.
 10. COMPLETE DAM REMOVAL PER PLANS.
 11. REMOVE COFFERDAM DOWNSTREAM OF RIFFLE #2. CONSTRUCT BYPASS CHANNEL WEIR
 12. BACKFILL AND RE-SEED DIVERSION TRENCH #2. REMOVE PLUG FROM OUTLET PIPE.
 13. BUILD UP WETLAND BERM TO AN ELEVATION OF 587.0
 14. REMOVE OR BACKFILL OUTLET STRUCTURE AND PIPE. REMOVE LID SPACERS AND SECURE LID.

BACKFILL PHASE 1 OUTLET STRUCTURE & 48" R.C. PIPE UPON COMPLETION OF PHASE 2 CONSTRUCTION. REMOVE LID SPACERS AND RESECURE LID TO STRUCTURE. CUT EXTRA RODS.

REMOVE STONES FROM EXISTING DAM TO MATCH PROPOSED CHANNEL PRISM SEE SHEET 9

SPOIL LOCATION FOR SALVAGED BLOCKS FROM THE DAM

DESIGNED BY: WTC
DRAWN BY: JUF
CHECKED BY: TMM
CHECKED BY: TMM

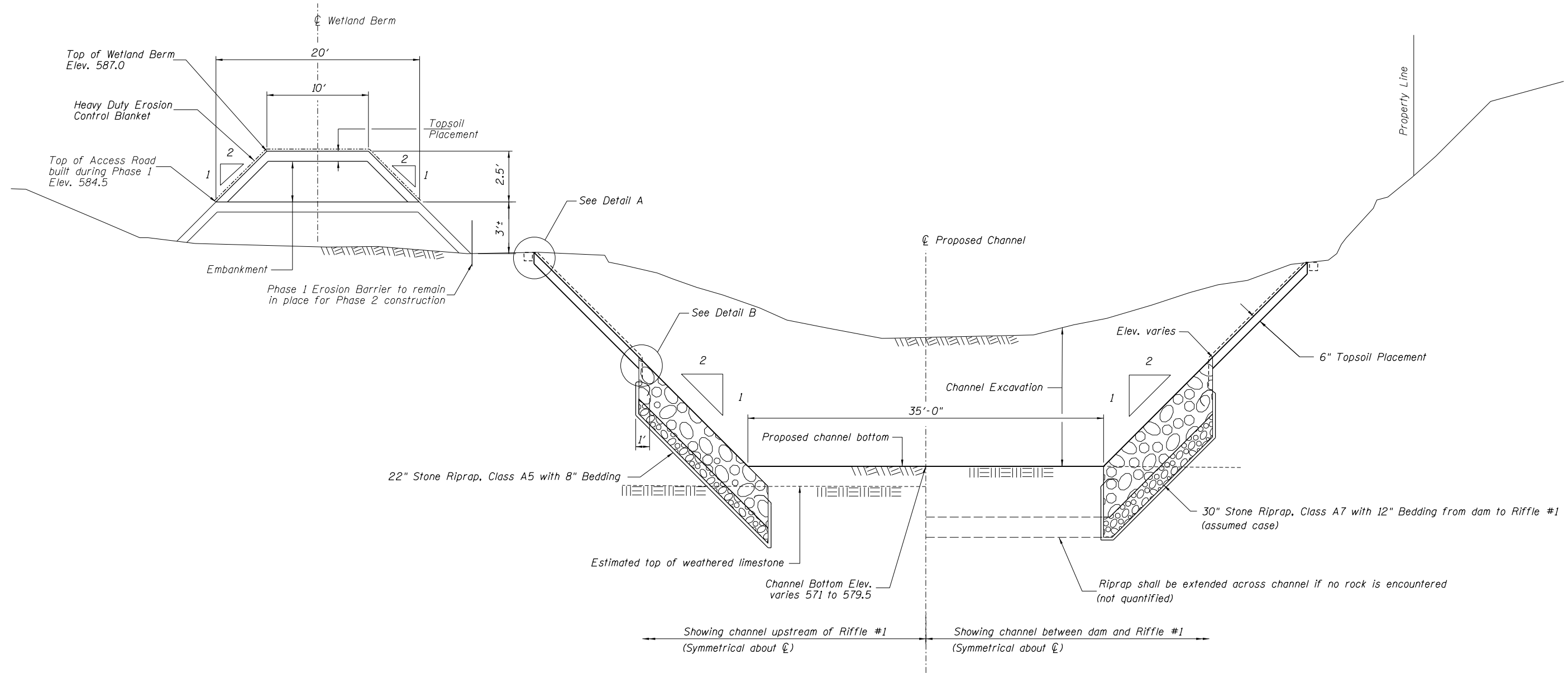


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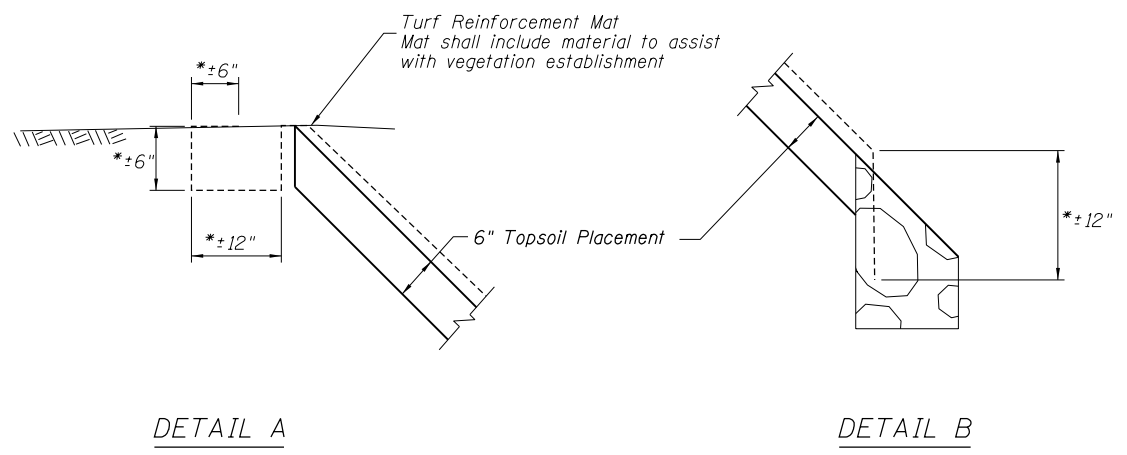
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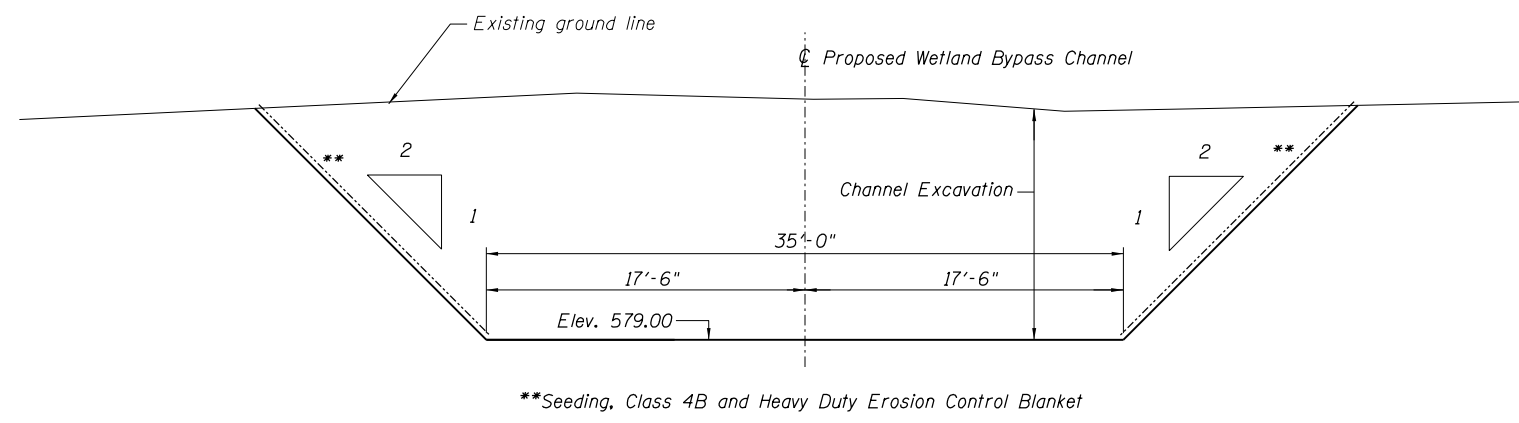
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Drawn By JJF checked By TMM



TYPICAL SECTION
(Looking Upstream)



*The Anchoring of the TRM shall be according to the manufacturer's recommendations



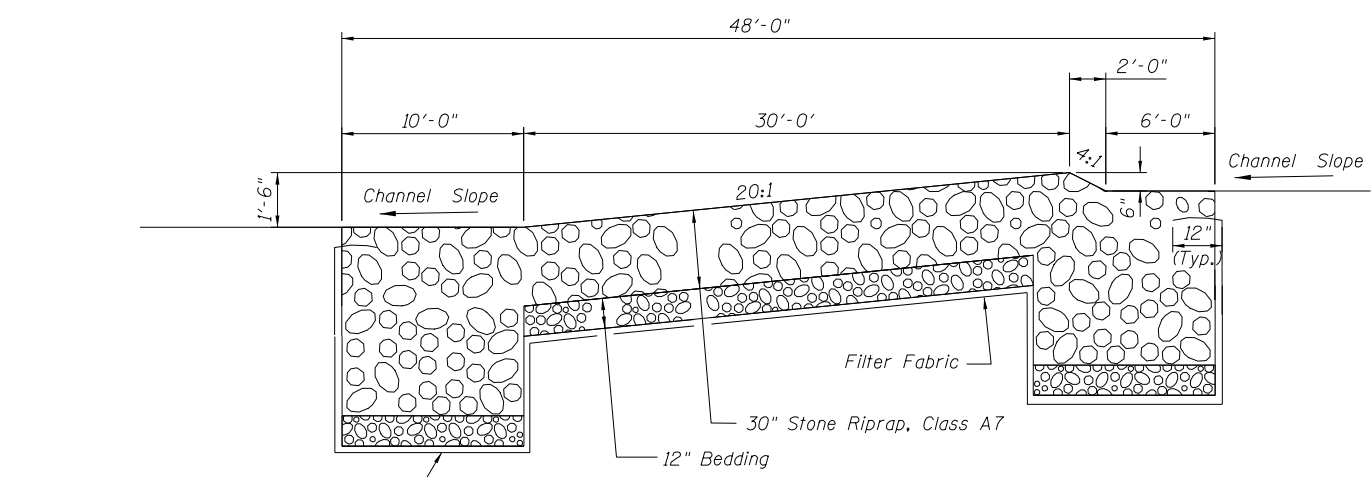
SECTION A-A
(See Sheet 5)

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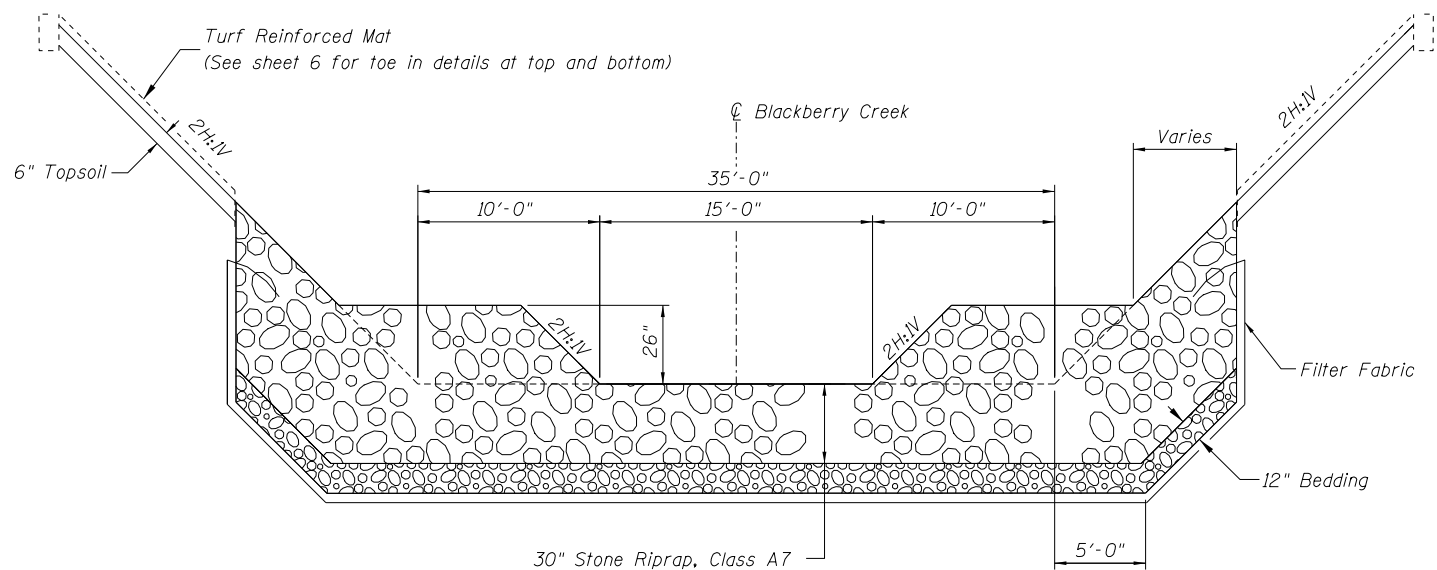
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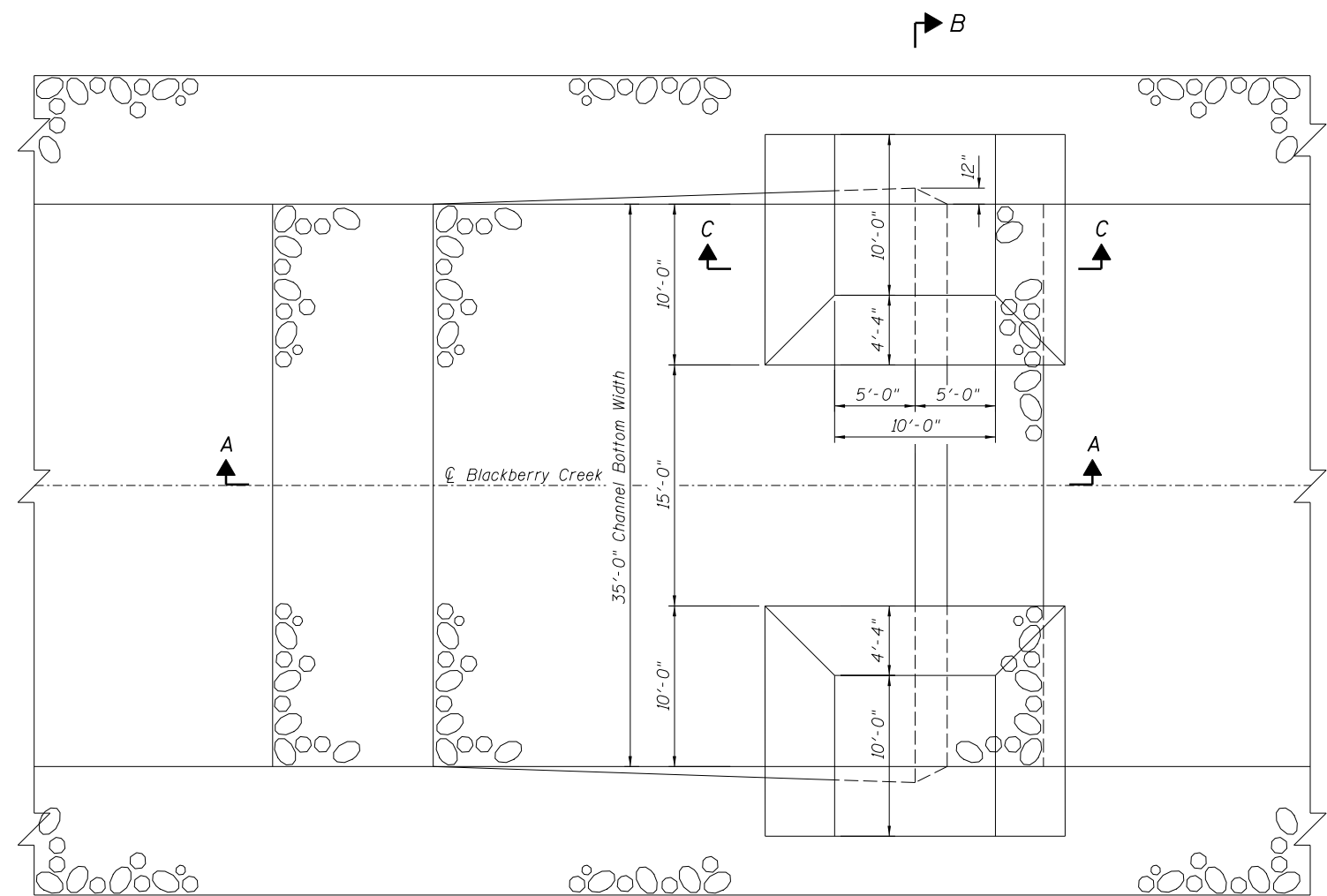
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Drawn By JJF checked By TMM



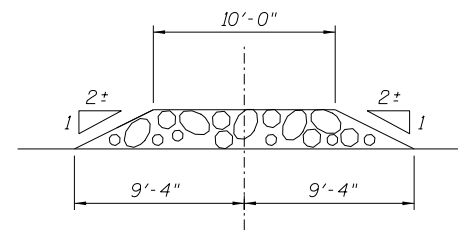
SECTION A-A



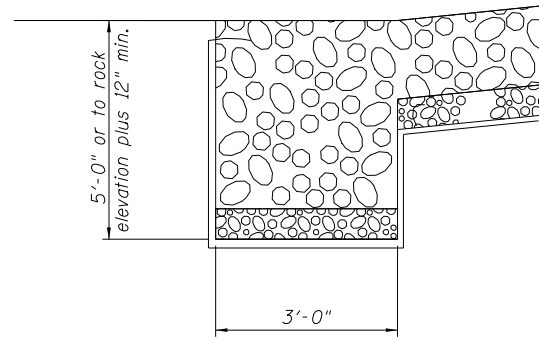
SECTION B-B



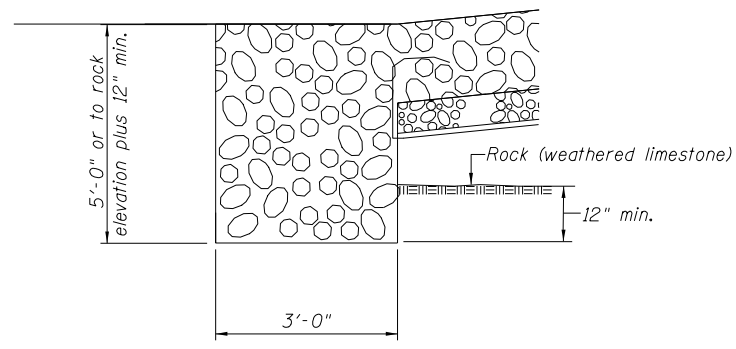
PLAN - RIFFLE



SECTION C-C



SOIL TOE-IN DETAIL



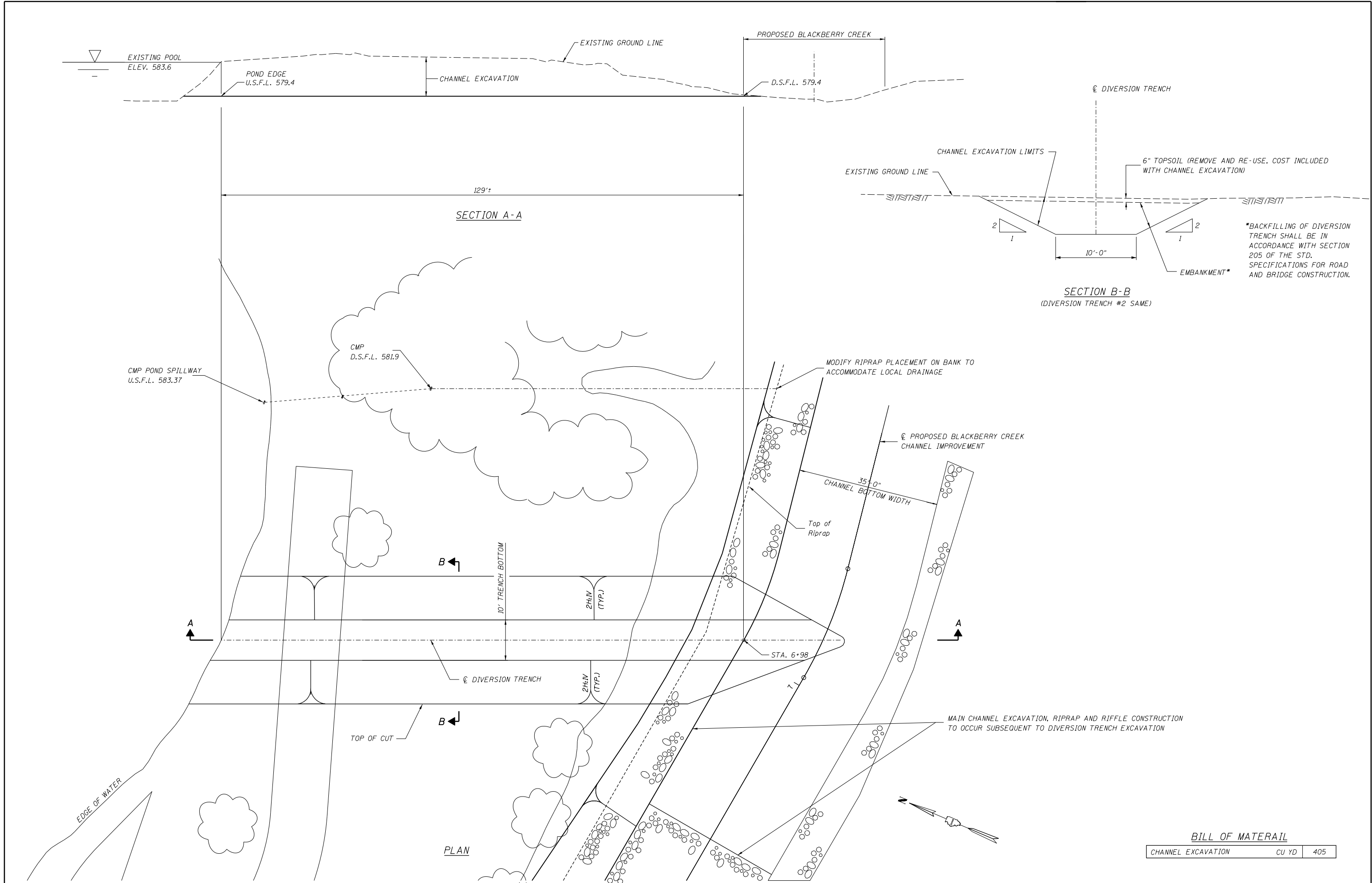
ROCK TOE-IN DETAIL

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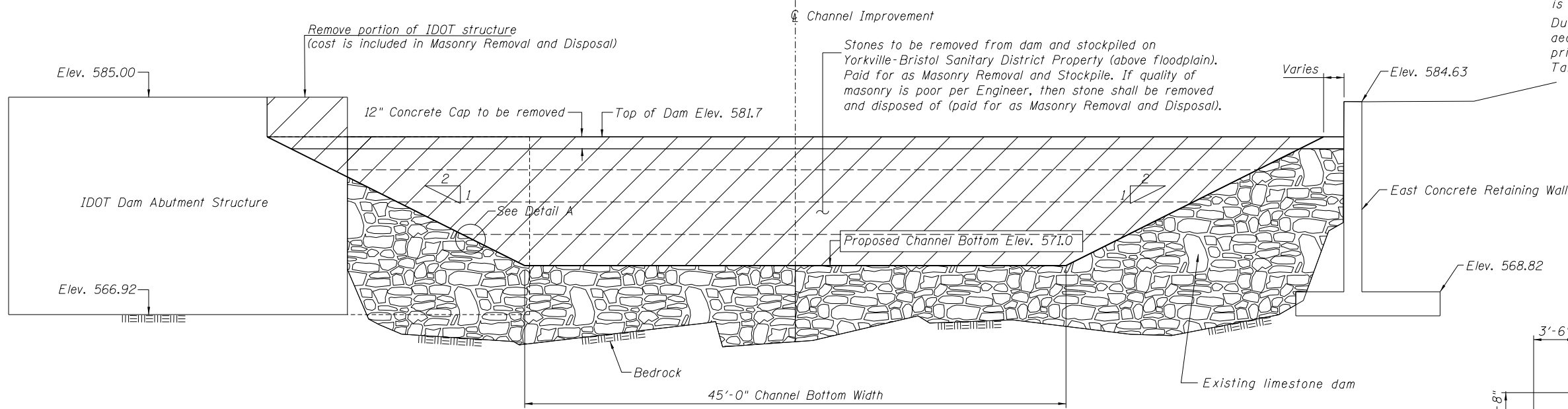
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Drawn By JJF checked by TMM

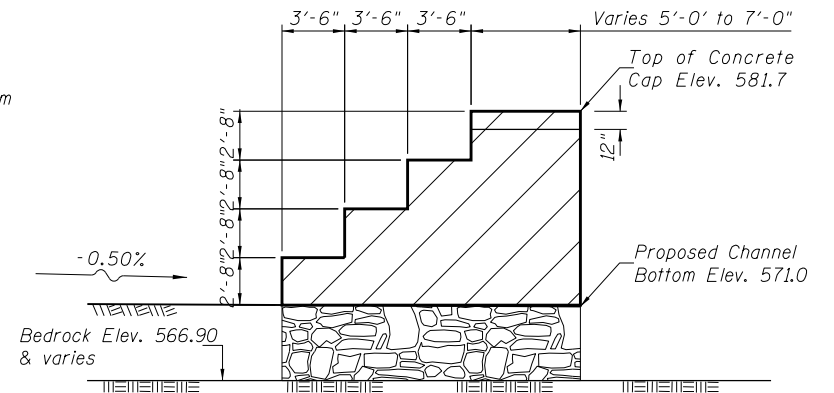


NOTES

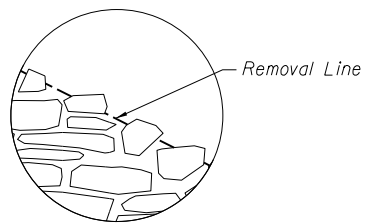
Blackberry Creek Dam shall remain in place as a BMP measure until the channel stabilization work is complete.
Due to the historical significance of the dam, Archaeologist Floyd Mansberger will need to be contacted prior to dam removal work. See Utility Reference Table on sheet 2. 72 hour notice shall be provided.



SECTION A-A



SECTION B-B

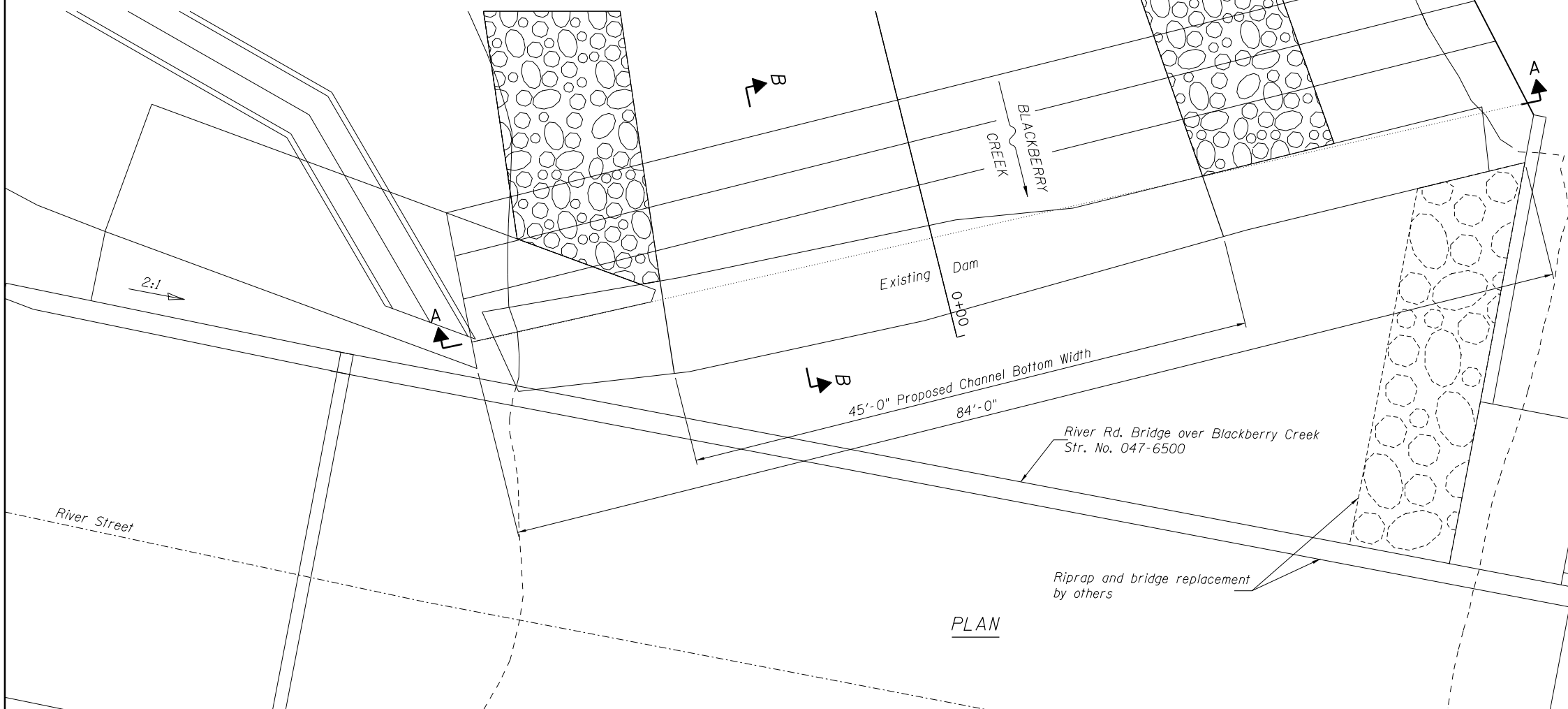


Remove stones along proposed removal line, keeping blocks intact as much as possible. Finished edge will be somewhat jagged.

DETAIL A

BILL OF MATERIAL

Masonry Removal and Stockpile	Cu Yd	273
Masonry Removal and Disposal	Cu Yd	273



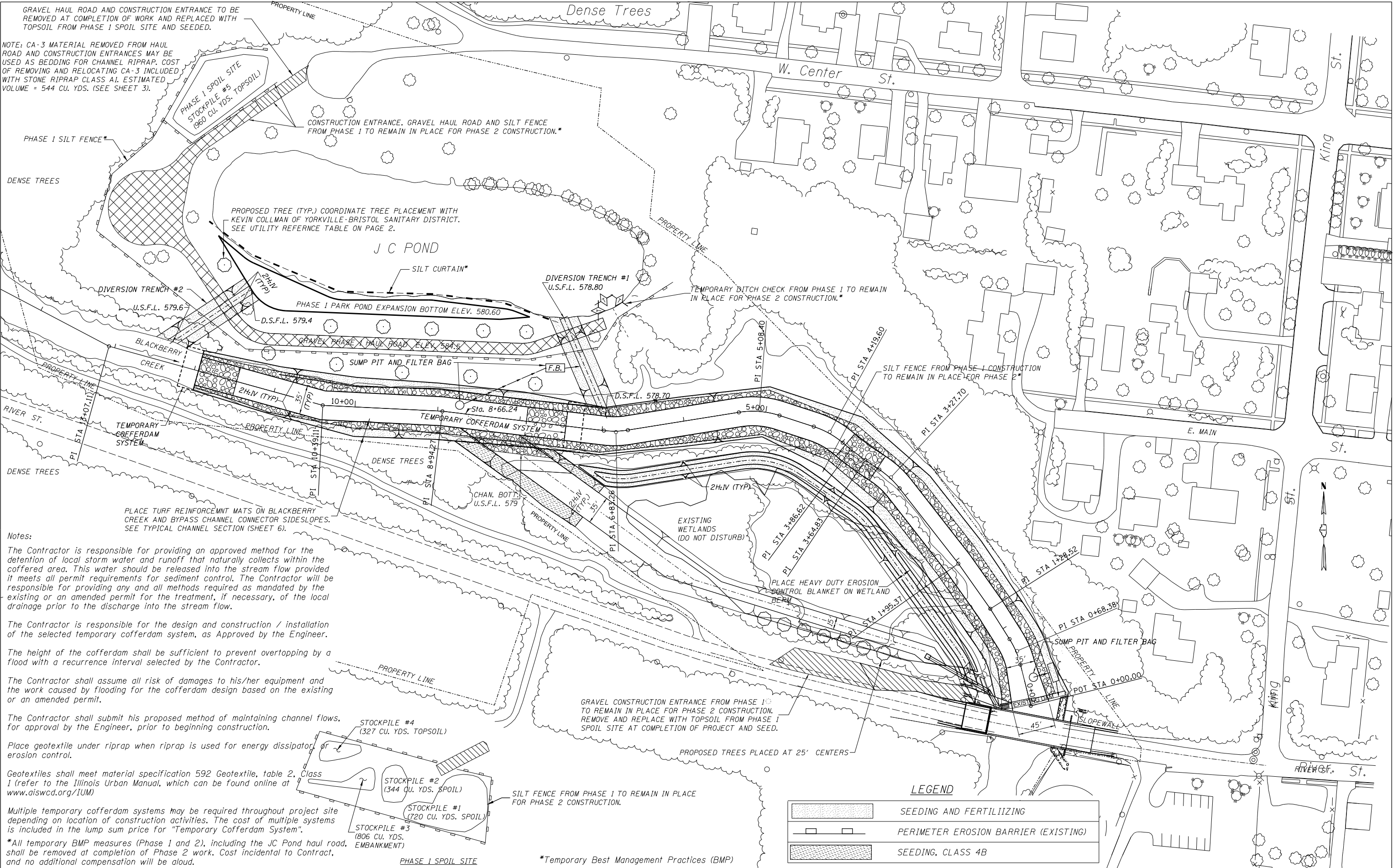
PLAN

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8/24/2012

Designed By JUF checked By TMM
Drawn By JUF checked By TMM



GRAVEL HAUL ROAD AND CONSTRUCTION ENTRANCE TO BE REMOVED AT COMPLETION OF WORK AND REPLACED WITH TOPSOIL FROM PHASE 1 SPOIL SITE AND SEEDED.

NOTE: CA-3 MATERIAL REMOVED FROM HAUL ROAD AND CONSTRUCTION ENTRANCES MAY BE USED AS BEDDING FOR CHANNEL RIPRAP. COST OF REMOVING AND RELOCATING CA-3 INCLUDED WITH STONE RIPRAP CLASS A1. ESTIMATED VOLUME = 544 CU. YDS. (SEE SHEET 3).

PHASE 1 SILT FENCE

CONSTRUCTION ENTRANCE, GRAVEL HAUL ROAD AND SILT FENCE FROM PHASE 1 TO REMAIN IN PLACE FOR PHASE 2 CONSTRUCTION.*

PROPOSED TREE (TYP.) COORDINATE TREE PLACEMENT WITH KEVIN COLLMAN OF YORKVILLE-BRISTOL SANITARY DISTRICT. SEE UTILITY REFERENCE TABLE ON PAGE 2.

TEMPORARY DITCH CHECK FROM PHASE 1 TO REMAIN IN PLACE FOR PHASE 2 CONSTRUCTION.*

DIVERSION TRENCH #2
U.S.F.L. 579.6
D.S.F.L. 579.4

DIVERSION TRENCH #1
U.S.F.L. 578.80

PHASE 1 PARK POND EXPANSION BOTTOM ELEV. 580.60

SILT FENCE FROM PHASE 1 CONSTRUCTION TO REMAIN IN PLACE FOR PHASE 2*

TEMPORARY COFFERDAM SYSTEM

TEMPORARY COFFERDAM SYSTEM

Notes:
The Contractor is responsible for providing an approved method for the detention of local storm water and runoff that naturally collects within the cofferdam area. This water should be released into the stream flow provided it meets all permit requirements for sediment control. The Contractor will be responsible for providing any and all methods required as mandated by the existing or an amended permit for the treatment, if necessary, of the local drainage prior to the discharge into the stream flow.

The Contractor is responsible for the design and construction / installation of the selected temporary cofferdam system, as Approved by the Engineer.

The height of the cofferdam shall be sufficient to prevent overtopping by a flood with a recurrence interval selected by the Contractor.

The Contractor shall assume all risk of damages to his/her equipment and the work caused by flooding for the cofferdam design based on the existing or an amended permit.

The Contractor shall submit his proposed method of maintaining channel flows, for approval by the Engineer, prior to beginning construction.

Place geotextile under riprap when riprap is used for energy dissipator, or erosion control.

Geotextiles shall meet material specification 592 Geotextile, table 2, Class 1 (refer to the Illinois Urban Manual, which can be found online at www.aiswcd.org/IUM)

Multiple temporary cofferdam systems may be required throughout project site depending on location of construction activities. The cost of multiple systems is included in the lump sum price for "Temporary Cofferdam System".

*All temporary BMP measures (Phase 1 and 2), including the JC Pond haul road, shall be removed at completion of Phase 2 work. Cost incidental to Contract, and no additional compensation will be allowed.

STOCKPILE #4
(327 CU. YDS. TOPSOIL)

STOCKPILE #2
(344 CU. YDS. SPOIL)

STOCKPILE #1
(720 CU. YDS. SPOIL)

STOCKPILE #3
(806 CU. YDS. EMBANKMENT)

SILT FENCE FROM PHASE 1 TO REMAIN IN PLACE FOR PHASE 2 CONSTRUCTION.

GRAVEL CONSTRUCTION ENTRANCE FROM PHASE 1 TO REMAIN IN PLACE FOR PHASE 2 CONSTRUCTION. REMOVE AND REPLACE WITH TOPSOIL FROM PHASE 1 SPOIL SITE AT COMPLETION OF PROJECT AND SEED.

PROPOSED TREES PLACED AT 25' CENTERS

LEGEND

	SEEDING AND FERTILIZING
	PERIMETER EROSION BARRIER (EXISTING)
	SEEDING, CLASS 4B

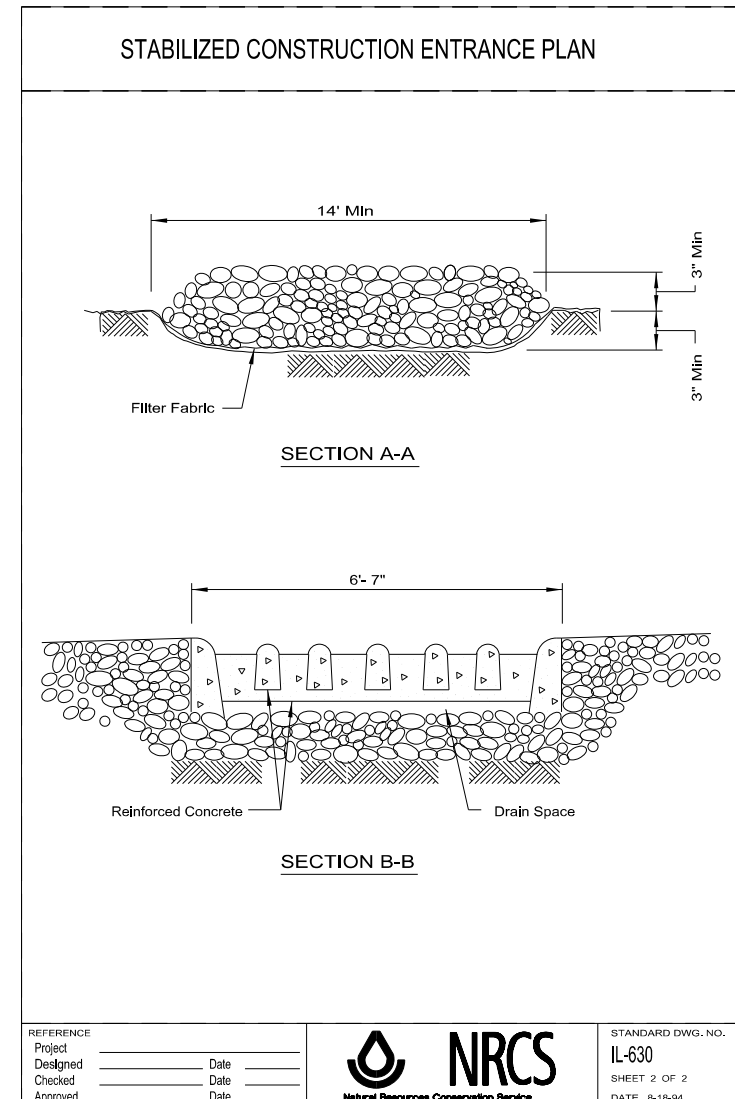
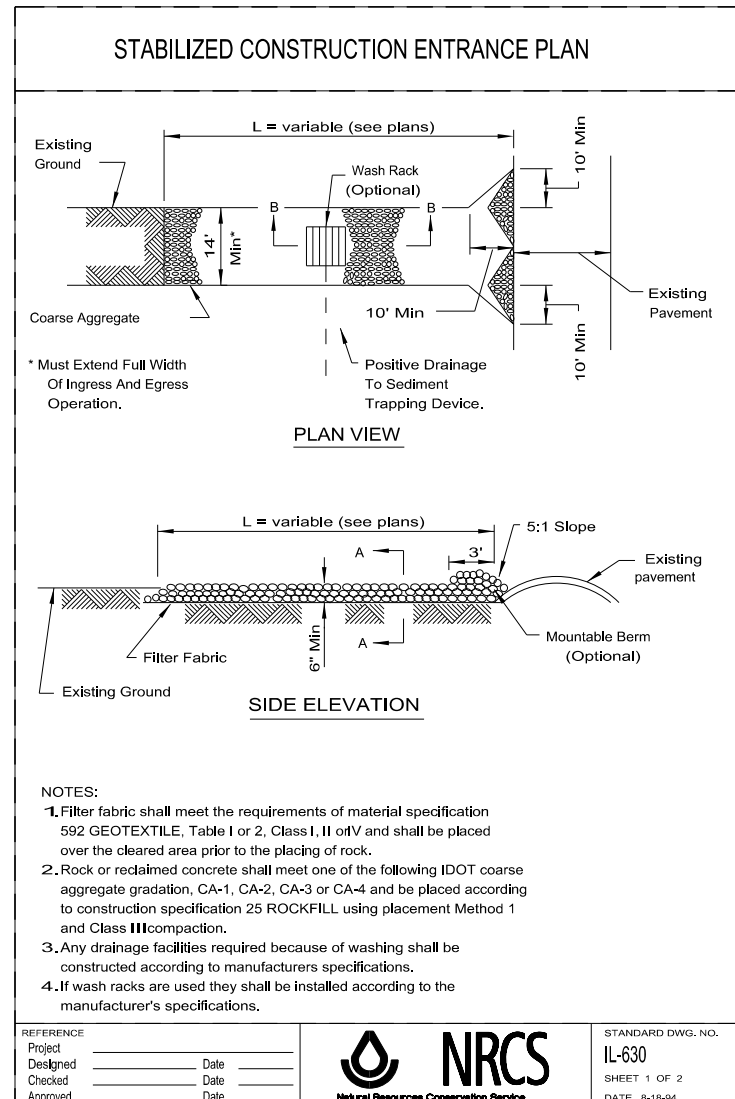
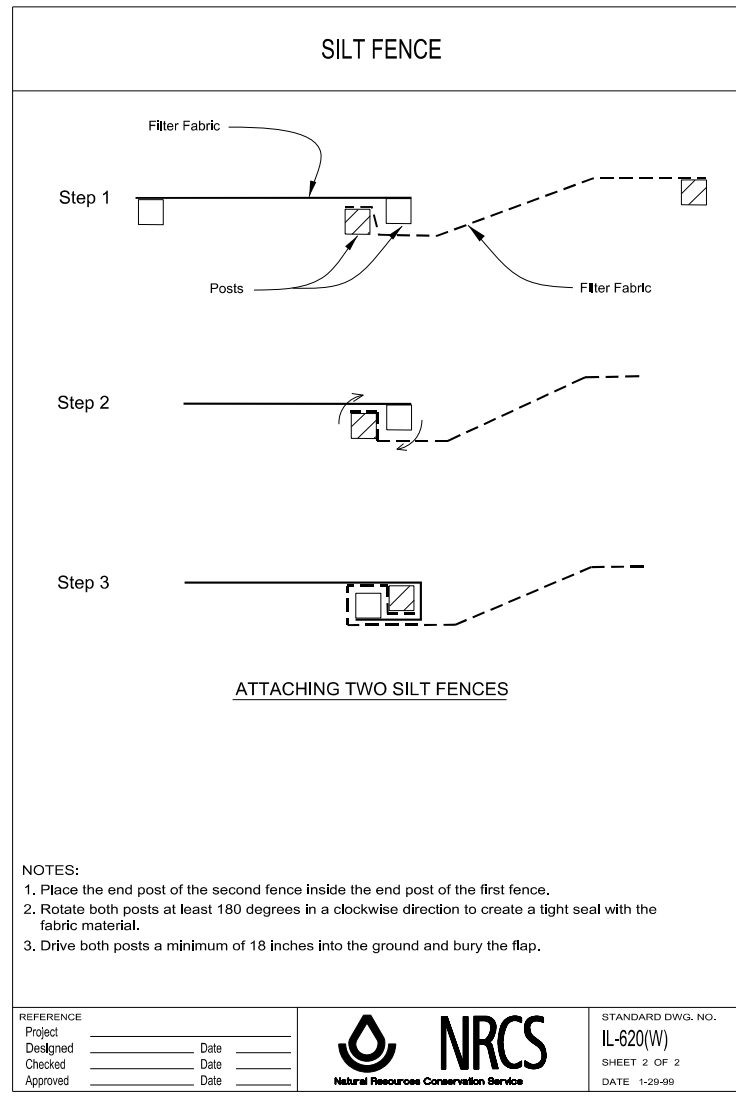
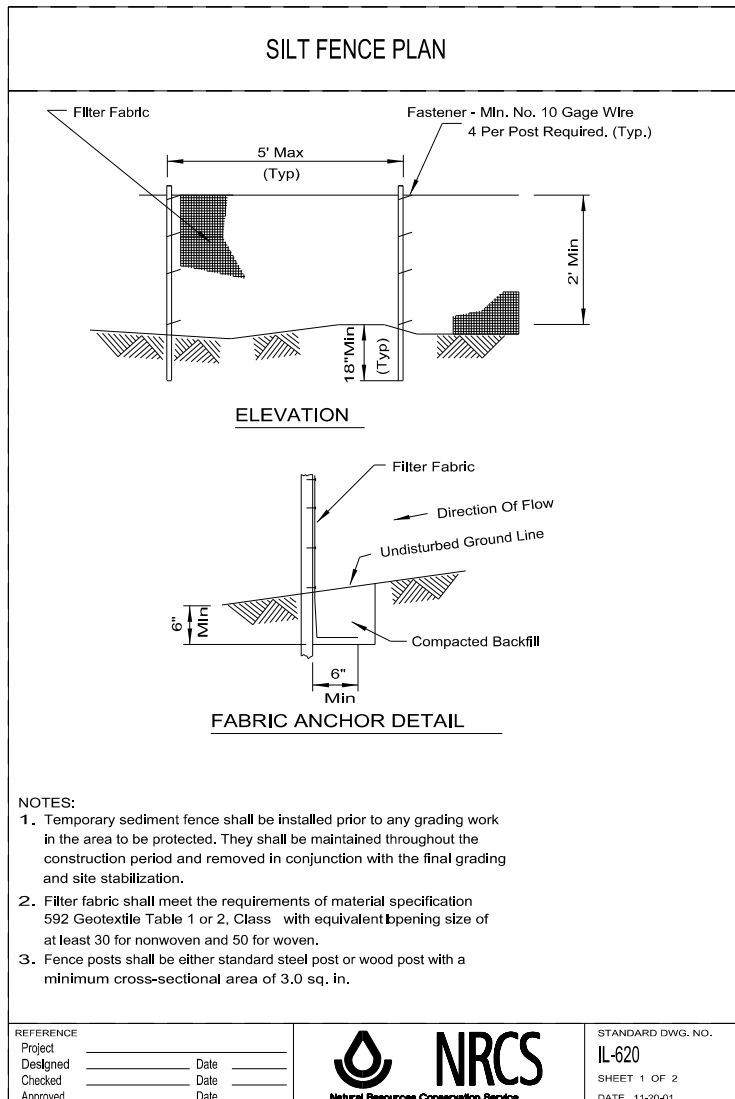
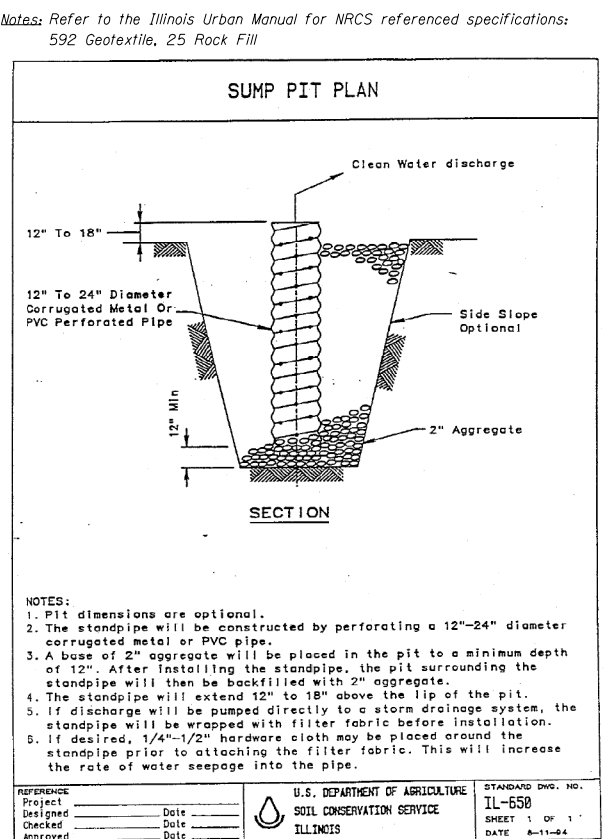
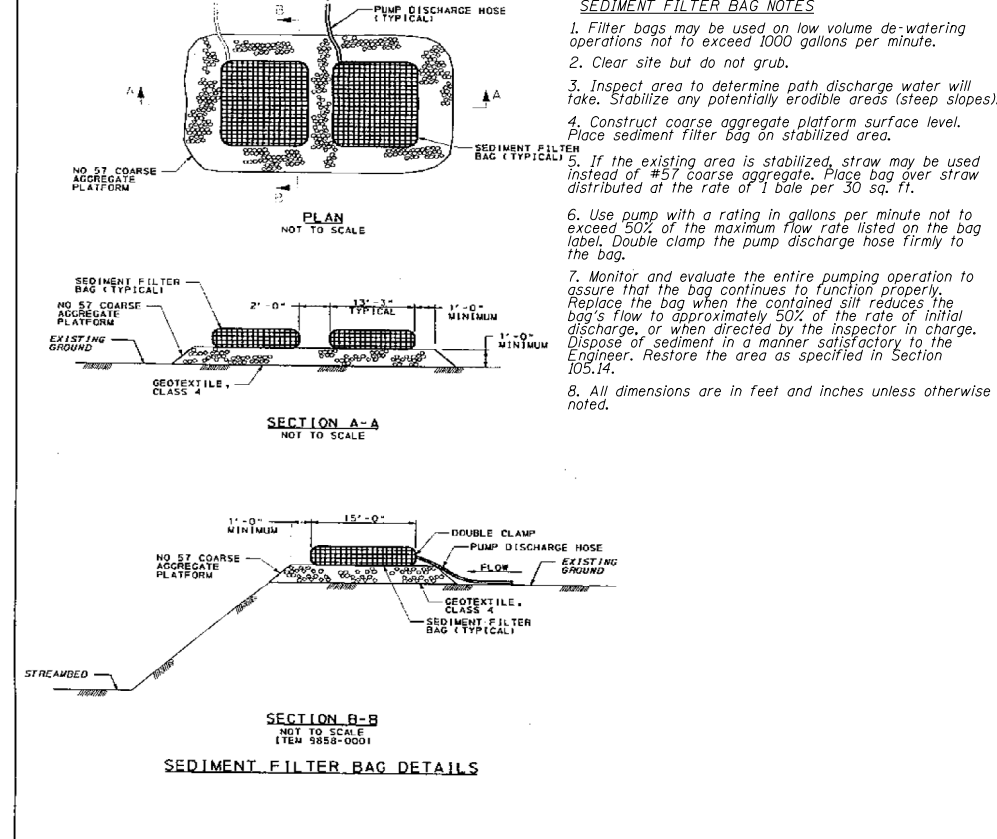
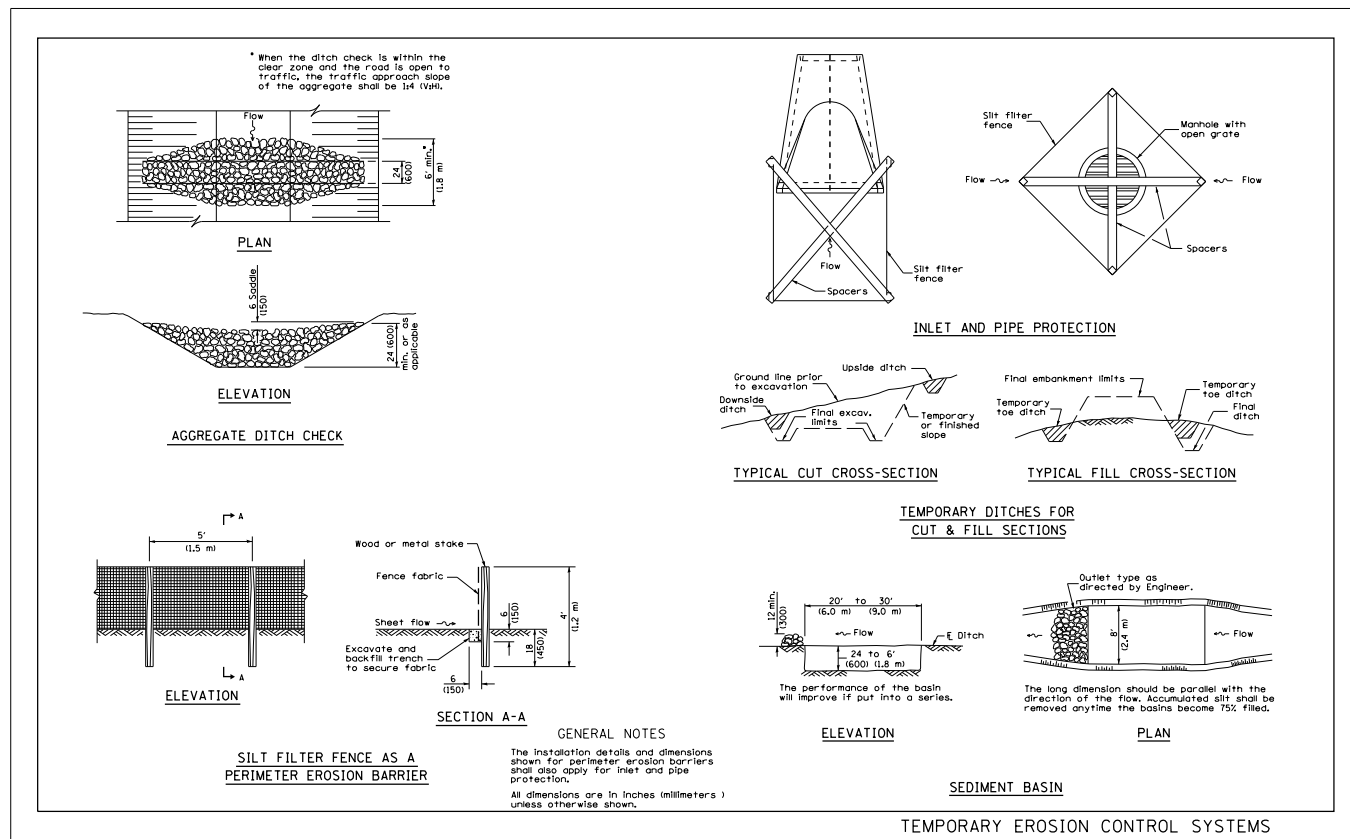
*Temporary Best Management Practices (BMP)

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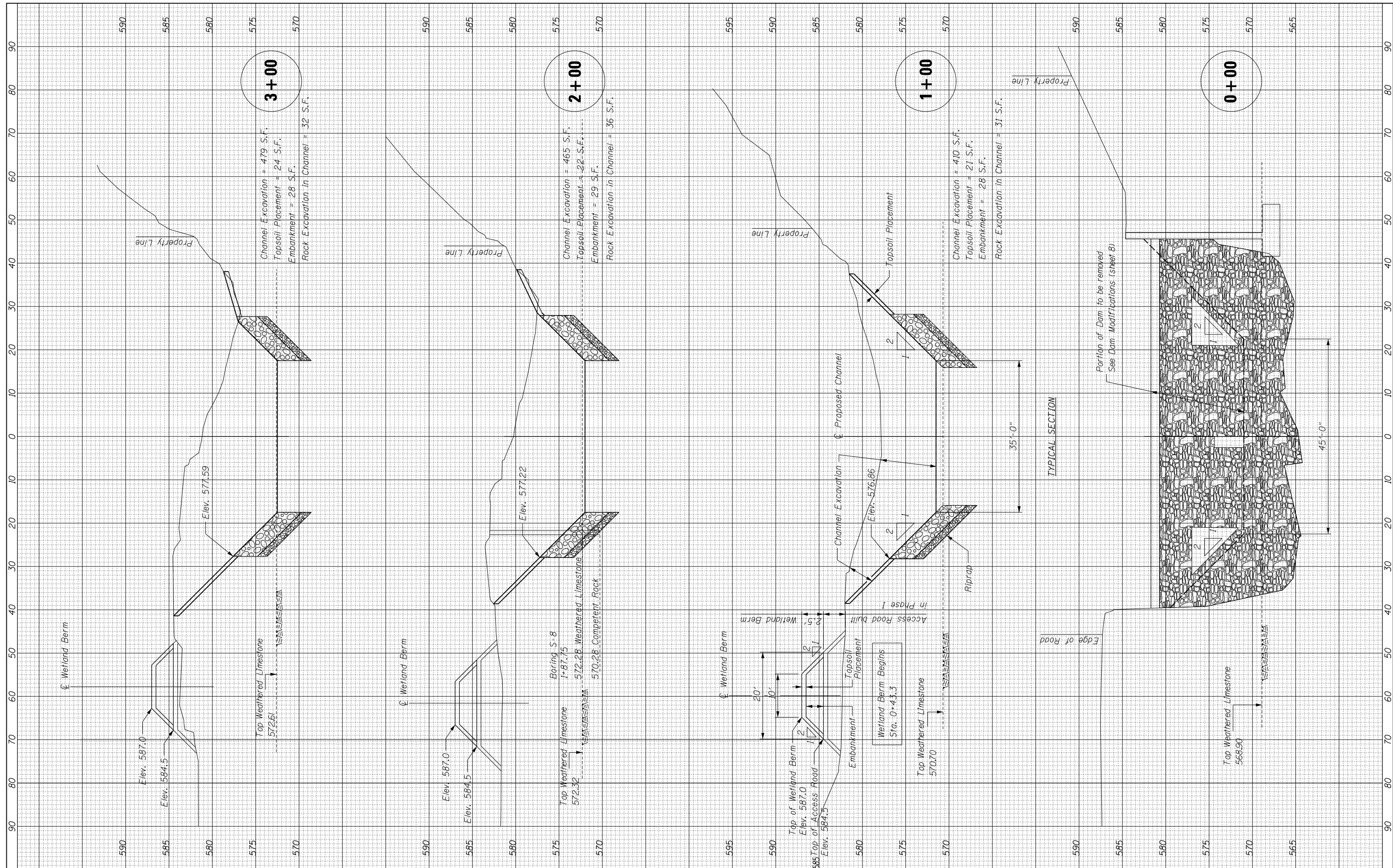
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8/24/2012

DESIGNED BY: JUF
DRAWN BY: JUF
CHECKED BY: TMM
CHECKED BY: TMM



Designed By JJF Checked By RLP
 Drawn By JJF Checked By RLP
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 6/2/2002
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TYPICAL SECTION

Portion of Dam to be removed
See Dam Modifications (Sheet 8)

45'-0"

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DATE -	REVISIONS -

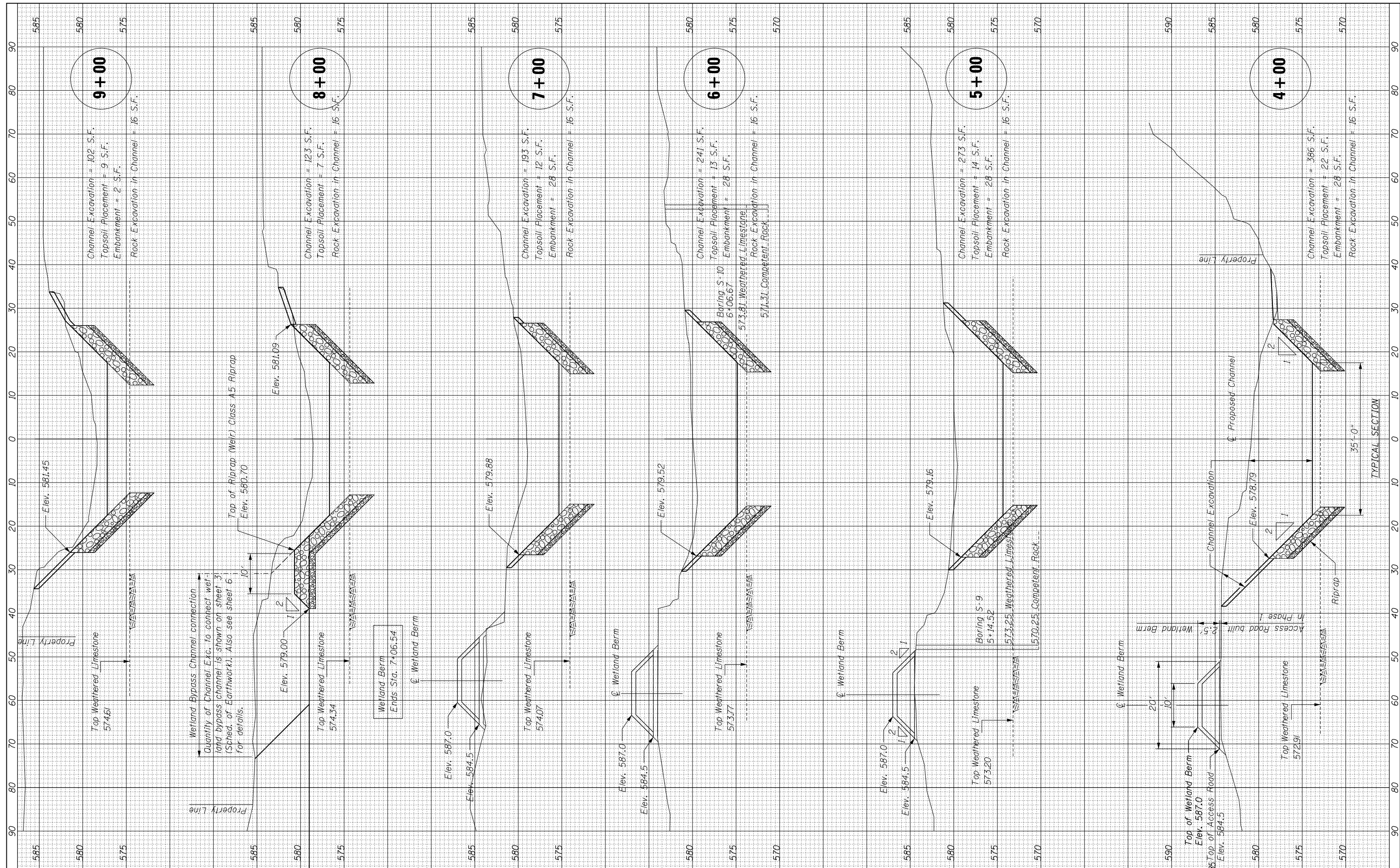
STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES

BLACKBERRY CREEK
DAM REMOVAL AND CHANNEL RESTORATION PHASE 2

SCALE: SHEET NO. 12 OF 15 SHEETS STA. 0+00.00 TO STA. 3+00.00

COUNTY	TOTAL SHEETS	SHEET NO.
KENDALL	15	12
FR-433		

ILLINOIS



FILE NAME =
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USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/24/2012

DESIGNED -
 DRAWN JJF
 CHECKED -
 DATE -

REVISED -
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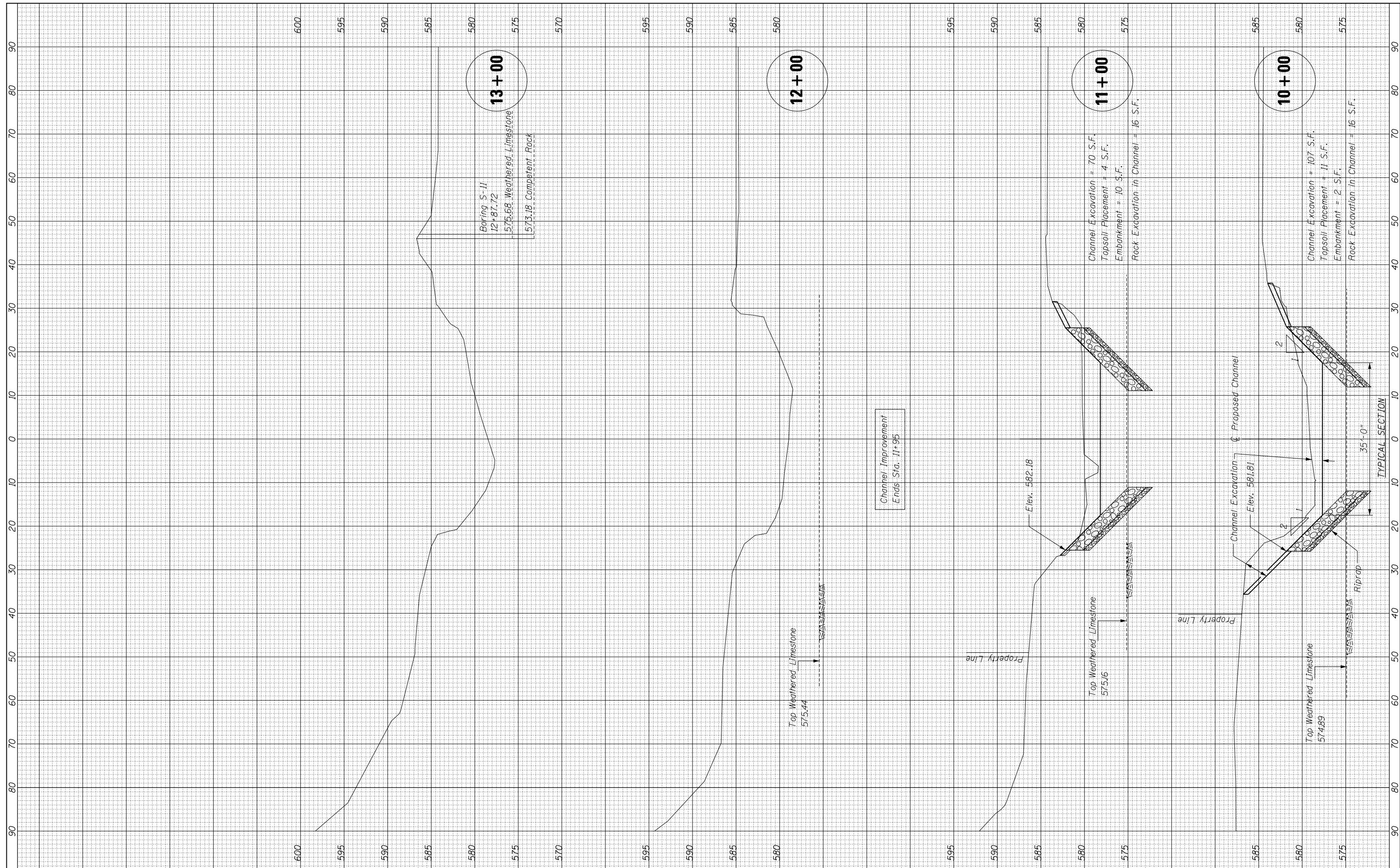
STATE OF ILLINOIS
 DEPARTMENT OF NATURAL RESOURCES

BLACKBERRY CREEK
 DAM REMOVAL AND CHANNEL RESTORATION PHASE 2

SCALE: SHEET NO. 13 OF 15 SHEETS STA. 4+00.00 TO STA. 9+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KENDALL	15	13
			FR-433	

ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -
*FILE#		DRAWN JJF	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = 8/24/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES**

SCALE:		SHEET NO. 14 OF 15 SHEETS		STA. 10+00.00 TO STA. 13+00.00		BLACKBERRY CREEK DAM REMOVAL AND CHANNEL RESTORATION PHASE 2		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								KENDALL	15	14		
											FR-433	
											ILLINOIS FED. AID PROJECT	

LOG OF BORING NO. E-1										Page 1 of 1	
CLIENT Illinois Department of Natural Resources		PROJECT Blackberry Creek Dam Removal									
SITE North of River Road & West of Yorkville, Illinois											
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT, N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %	FIELD PENETROMETER (FDM) (ppm)	
											DESCRIPTION
0.5	CL-ML	1	SS	2	14	8	4000*			***ND	
Approx. Surface Elev.: 586.054 ft											
Approx. 6" Topsoil											
SILTY CLAY WITH SAND, TRACE GRAVEL, light brown, stiff to hard											
1.0	CL-ML	2	SS	8	50/2*	11	9000*			***ND	
1.5	CL-ML	3	SS	5	90/2*	10	9000*			***ND	
BOTTOM OF BORING											
Practical Auger Refusal on apparent weathered limestone at about 3 feet.											
***ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppm).											
*Pocket Penetrometer between soil and rock types: in-situ, the transition may be gradual. **140 Lbs Automatic SPT Hammer WATER LEVEL OBSERVATIONS, ft WL 6.5 WD 3 AB RIG 68 FOREMAN JA TERRACON BORING STARTED 3-27-12 BORING COMPLETED 3-27-12 APPROVED KCB JOB # 11125018 Exhibit A-4											

LOG OF BORING NO. E-2										Page 1 of 1	
CLIENT Illinois Department of Natural Resources		PROJECT Blackberry Creek Dam Removal									
SITE North of River Road & West of Yorkville, Illinois											
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT, N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %	FIELD PENETROMETER (FDM) (ppm)	
											DESCRIPTION
0.5	CL-ML	1	SS	16	9	20	3000*			***ND	
Approx. Surface Elev.: 584.733 ft											
Approx. 6" Topsoil											
SILTY CLAY WITH SAND, TRACE GRAVEL, light brown, stiff to hard											
1.0	CL-ML	2	SS	13	88	9	9000*			1.0	
1.6	CL-ML	3	SS	2	50/5*	11	9000*			1.6	
BOTTOM OF BORING											
Practical Auger Refusal on apparent weathered limestone at about 5 1/2 feet.											
***ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppm).											
*Pocket Penetrometer between soil and rock types: in-situ, the transition may be gradual. **140 Lbs Automatic SPT Hammer WATER LEVEL OBSERVATIONS, ft WL 6.5 WD 3 AB RIG 68 FOREMAN JA TERRACON BORING STARTED 3-27-12 BORING COMPLETED 3-27-12 APPROVED KCB JOB # 11125018 Exhibit A-5											

LOG OF BORING NO. E-3										Page 1 of 1	
CLIENT Illinois Department of Natural Resources		PROJECT Blackberry Creek Dam Removal									
SITE North of River Road & West of Yorkville, Illinois											
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT, N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %	FIELD PENETROMETER (FDM) (ppm)	
											DESCRIPTION
0.4	CL-ML	1	SS	12	14	24				***ND	
Approx. Surface Elev.: 584.726 ft											
Approx. 5" Topsoil											
SILTY CLAY, TRACE SAND, GRAVEL AND ORGANICS, dark brown/dark gray, very soft to stiff											
2.0	CL-ML	2	SS	NR	4					***ND	
2.5	CL-ML	3	SS	14	6	28	<500*			***ND	
5.5	SM	4	SS	11	11	19				***ND	
SILTY FINE TO MEDIUM SAND, TRACE GRAVEL, gray, loose											
6.5	GP-GM	5	SS	11	18	10				***ND	
SANDY FINE TO COARSE GRAVEL WITH SILT AND CLAY, brown and gray, medium dense											
BOTTOM OF BORING											
Practical Auger Refusal at about 11 1/2 feet.											
***Classification of rock materials based on drilling characteristics and observation of disturbed samples. Core samples and petrographic analysis may indicate other rock types.											
*Pocket Penetrometer between soil and rock types: in-situ, the transition may be gradual. **140 Lbs Automatic SPT Hammer WATER LEVEL OBSERVATIONS, ft WL 6.5 WD 3 AB RIG 68 FOREMAN JA TERRACON BORING STARTED 3-27-12 BORING COMPLETED 3-27-12 APPROVED KCB JOB # 11125018 Exhibit A-6											

LOG OF BORING NO. E-4										Page 1 of 1	
CLIENT Illinois Department of Natural Resources		PROJECT Blackberry Creek Dam Removal									
SITE North of River Road & West of Yorkville, Illinois											
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT, N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %	FIELD PENETROMETER (FDM) (ppm)	
											DESCRIPTION
0.4	CL-ML	1	SS	16	6	23	2000*			***ND	
Approx. Surface Elev.: 584.881 ft											
Approx. 5" Topsoil											
SILTY CLAY, TRACE SAND, GRAVEL AND ORGANICS, dark brown, medium stiff											
2.0	OL-CH	2	SS	10	4	53	<500*			***ND	
ORGANIC CLAY, TRACE SAND, GRAVEL AND ROOTS, dark brown/dark gray, very soft to medium stiff											
3.0	OL-CH	3	SS	11	5	31	<500*			***ND	
4.0	GP	4	SS	1	23	5				***ND	
GRAVELLY FINE TO COARSE SAND, WITH SILT, brown and gray, medium dense											
5.0	SP-SM	5	SS	11	23	12				***ND	
BOTTOM OF BORING											
Practical Auger Refusal at about 11 feet.											
***ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppm).											
*Pocket Penetrometer between soil and rock types: in-situ, the transition may be gradual. **140 Lbs Automatic SPT Hammer WATER LEVEL OBSERVATIONS, ft WL 6.5 WD 3 AB RIG 68 FOREMAN JA TERRACON BORING STARTED 3-27-12 BORING COMPLETED 3-27-12 APPROVED KCB JOB # 11125018 Exhibit A-7											

LOG OF BORING NO. S-8										Page 1 of 1	
CLIENT Illinois Department of Natural Resources		PROJECT Blackberry Creek Dam Removal									
SITE North of River Road & West of Yorkville, Illinois											
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT, N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %	FIELD PENETROMETER (FDM) (ppm)	
											DESCRIPTION
0.7	OL-CH	1	ST	12	42	86	<500*		4.8		
Approx. Surface Elev.: 583.280 ft											
Approx. 8" Topsoil											
ORGANIC CLAY, TRACE SAND, GRAVEL AND ROOTS, dark brown/dark gray, very soft to medium stiff											
1.4	OL-CH	2	ST	14	50	80	1000*		8.3		
ORGANIC CLAY, TRACE SAND, GRAVEL AND ROOTS, dark brown/dark gray, soft to very soft											
1.9	OL-CH	3	ST	13	71		<500*				
Sample 4: with sand seams											
2.0	OL-CH	4	SS	20	3	83	<500*				
SILTY SAND WITH GRAVEL, dark brown to gray, loose											
2.5	SM	5	SS	18	7	66	<500*				
WEATHERED LIMESTONE***, light brown/light gray											
BOTTOM OF BORING											
Practical Auger Refusal at about 13 feet.											
***Classification of rock materials based on drilling characteristics and observation of disturbed samples. Core samples and petrographic analysis may indicate other rock types.											
*Pocket Penetrometer between soil and rock types: in-situ, the transition may be gradual. **140 Lbs Automatic SPT Hammer WATER LEVEL OBSERVATIONS, ft WL 6.5 WD 3.5 AB RIG 68 FOREMAN JA TERRACON BORING STARTED 3-27-12 BORING COMPLETED 3-27-12 APPROVED KCB JOB # 11125018 Exhibit A-11											

LOG OF BORING NO. S-9										Page 1 of 1	
CLIENT Illinois Department of Natural Resources		PROJECT Blackberry Creek Dam Removal									
SITE North of River Road & West of Yorkville, Illinois											
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT, N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %	FIELD PENETROMETER (FDM) (ppm)	
											DESCRIPTION
0.7	OL-CH	1	ST	12	42	86	<500*		4.8		
Approx. Surface Elev.: 584.249 ft											
Approx. 8" Topsoil											
ORGANIC CLAY, TRACE SAND, GRAVEL AND ROOTS, dark brown/dark gray, very soft to medium stiff											
1.4	OL-CH	2	ST	14	50	80	1000*		8.6		
ORGANIC CLAY, TRACE SAND, GRAVEL AND ROOTS, dark brown/dark gray, soft to very soft											
1.9	OL-CH	3	ST	19	63		<500*				
Sample 5: sampler refusal, no sample recovery, obtained auger sample											
2.0	CL-ML	4	SS	16	4	25					
SILTY CLAY WITH SAND, TRACE GRAVEL, dark gray to brown/gray, very soft to medium stiff											
2.5	CL-ML	5	SS	16	4	22	<500*				
WEATHERED LIMESTONE***, light brown/light gray											
BOTTOM OF BORING											
Practical Auger Refusal at about 14 feet.											
***Classification of rock materials based on drilling characteristics and observation of disturbed samples. Core samples and petrographic analysis may indicate other rock types.											
*Pocket Penetrometer between soil and rock types: in-situ, the transition may be gradual. **140 Lbs Automatic SPT Hammer WATER LEVEL OBSERVATIONS, ft WL 6.5 WD 5.5 AB RIG 68 FOREMAN JA TERRACON BORING STARTED 3-27-12 BORING COMPLETED 3-27-12 APPROVED KCB JOB # 11125018 Exhibit A-12											

LOG OF BORING NO. S-10										Page 1 of 1	
CLIENT Illinois Department of Natural Resources		PROJECT Blackberry Creek Dam Removal									
SITE North of River Road & West of Yorkville, Illinois											
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT, N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %	FIELD PENETROMETER (FDM) (ppm)	
											DESCRIPTION
0.7	OL-CH	1	SS	NR	4					***ND	
Approx. Surface Elev.: 582.812 ft											
Approx. 8" Topsoil											
ORGANIC CLAY, TRACE SAND, GRAVEL AND ROOTS, dark brown/dark gray, soft to very soft											
1.4	OL-CH	2	SS	18	78		<500*			***ND	
SILTY CLAY, TRACE SAND, GRAVEL AND ORGANICS, dark brown/dark gray, soft to very soft											
1.9	CL-ML	3	SS	22	2	36	<500*			***ND	
SANDY FINE TO COARSE SAND, WITH GRAVEL, gray/brown, medium dense to very dense											
2.0	SM	4	SS	NR	50/1*	28				***ND	
WEATHERED LIMESTONE***, light brown/light gray											
BOTTOM OF BORING											
Practical Auger Refusal at about 11 1/2 feet.											
***Classification of rock materials based on drilling characteristics and observation of disturbed samples. Core samples and petrographic analysis may indicate other rock types.											
*Pocket Penetrometer between soil and rock types: in-situ, the transition may be gradual. **140 Lbs Automatic SPT Hammer WATER LEVEL OBSERVATIONS, ft WL 6.5 WD 2 AB RIG 68 FOREMAN JA TERRACON BORING STARTED 3-27-12 BORING COMPLETED 3-27-12 APPROVED KCB JOB # 11125018 Exhibit A-13											

LOG OF BORING NO. S-11										Page 1 of 1	
CLIENT Illinois Department of Natural Resources		PROJECT Blackberry Creek Dam Removal									
SITE North of River Road & West of Yorkville, Illinois											
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, %	SPT, N ¹ BLOWS / FT	WATER CONTENT, %	DRY UNIT WT, pcf	UNCONFINED STRENGTH, psf	ORGANIC CONTENT, %	FIELD PENETROMETER (FDM) (ppm)	
											DESCRIPTION
0.7	OL-CH	1	SS	10	6	32	1000*			***ND	
Approx. Surface Elev.: 684.678 ft											
Approx. 8" Topsoil											
ORGANIC CLAY, TRACE SAND, GRAVEL AND ROOTS, dark brown/dark gray, very soft to medium stiff											
1.4	OL-CH	2	SS	8	5	30	420			***ND	
FINE TO MEDIUM SAND, WITH SILT, brown											
1.9	OL-CH	3	SS	14	5	48	1000*			***ND	
SILTY SAND, TRACE GRAVEL, dark gray/brown, medium dense to very dense											
2.0	SM	4	SS	10	13	20				***ND	
Sample 5: no recovery											
2.5	SS	NR	50/1*							***ND	
WEATHERED LIMESTONE***, light brown/light gray											
BOTTOM OF BORING											
Practical Auger Refusal at about 11 1/2 feet.											
***Classification of rock materials based on drilling characteristics and observation of disturbed samples. Core samples and petrographic analysis may indicate other rock types.											
*Pocket Penetrometer between soil and rock types: in-situ, the transition may be gradual. **140 Lbs Automatic SPT Hammer WATER LEVEL OBSERVATIONS, ft WL 5 WD 4 AB RIG 68 FOREMAN JA TERRACON BORING STARTED 3-27-12 BORING COMPLETED 3-27-12 APPROVED KCB JOB # 11125018 Exhibit A-14											

Designed By WTC Checked By TMM
 Drawn By JUF Checked By TMM
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