

FOUR RIVERS SANITATION AUTHORITY

CREEK CROSSING PROTECTION - SPRING CREEK

CAPITAL PROJECT #2686

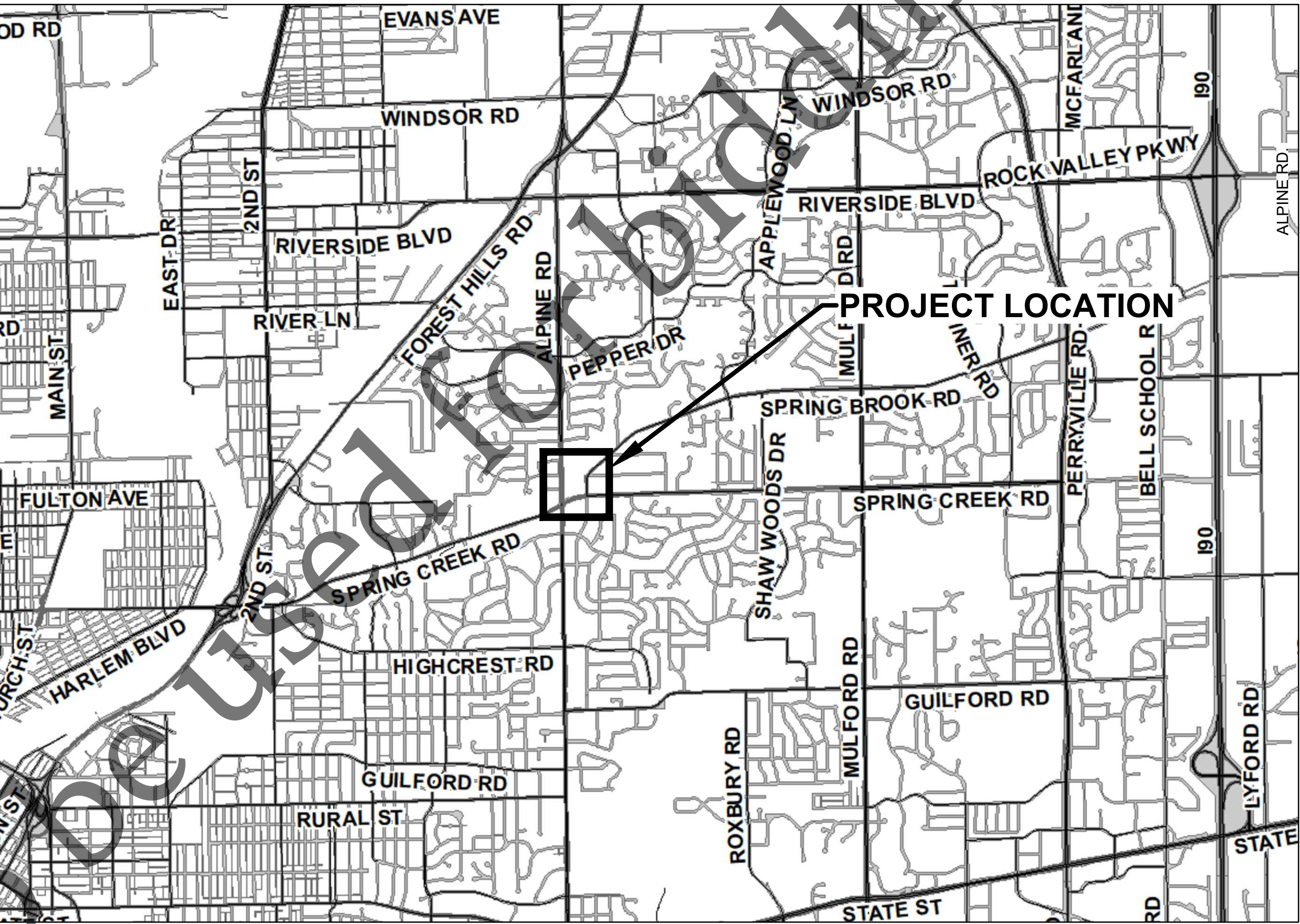
2026

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WINNEBAGO COUNTY, ILLINOIS

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SIGNED 7/24/2026
EXPIRES 11/30/2027

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GENERAL NOTES

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE EXECUTION OF WORK TO THE LINES AND GRADES SHOWN ON THE PLANS. CONSTRUCTION SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR APPROVAL FROM THE FOUR RIVERS SANITATION AUTHORITY (FRSA).
2. THE CONTRACTOR SHALL NOTIFY THE FRSA, MUNICIPAL AGENCIES, JURISDICTIONAL ROADWAY AUTHORITIES AND ALL AFFECTED PROPERTY OWNERS A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.
3. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN THE STATE OF ILLINOIS, LATEST EDITION, AND THE REQUIREMENTS OF THE FOUR RIVERS SANITATION AUTHORITY.
4. UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON RECORD INFORMATION AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL IDENTIFY ALL UTILITY LOCATIONS IN THE FIELD BY CONTACTING J.U.L.I.E. AT 811, AND ALL UTILITIES NOT ON THE J.U.L.I.E. NETWORK, 72 HOURS, MINIMUM, PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT, RESTRAIN, OR SUPPORT UTILITES AND SHALL CONTACT THE UTILITY OWNER FOR PROTECTION PROCEDURE AND SCHEDULE COORDINATION. ALL COSTS ASSOCIATED WITH PROTECTION OF UTILITIES (INCLUDING TUNNELING, RESTRAINT, BRACING, SUPPORTING, SHEATHING, ETC.) WHETHER BY THE CONTRACTOR OR UTILITY COMPANY SHALL BE AT NO ADDITIONAL COST TO THE FRSA.
5. ALL ROADWAY CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROADWAY AUTHORITY, THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND THE FOUR RIVERS SANITATION AUTHORITY.
6. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE IEPA NPDES PERMIT AND THE ILLINOIS URBAN MANUAL FOR SOIL EROSION AND SEDIMENT CONTROL.
7. PROTECTION OF WATER SUPPLIES SHALL BE IN ACCORDANCE WITH TITLE 35, C, SECTION 370.350 OF THE ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS.

SPECIAL CONSIDERATIONS

1. PROJECT ACCESS SHALL BE FROM THE EXISTING GATED COMMUNICATIONS TOWER ENTRANCE ON SPRING BROOK RD.
2. THE EXISTING ACCESS TO THE GTE MOBILNET TOWER WILL SERVE AS THE CONSTRUCTION ENTRANCE FOR THE PROJECT. THROUGHOUT CONSTRUCTION, ACCESS TO THE TOWER SHALL BE MAINTAINED AT ALL TIMES. UPON COMPLETION OF ALL MAJOR CONSTRUCTION ACTIVITIES, ANY UNSUITABLE MATERIAL WITHIN THE EXISTING ACCESS SHALL BE REMOVED, AND THE ENTRANCE SHALL BE RESTORED WITH A 2-INCH AGGREGATE SURFACE.
3. THE ITEM *TREE REMOVAL (6 TO 15 UNITS DIAMETER)* IS INCLUDED AS A CONTINGENCY ITEM AND SHALL ONLY BE USED AS DIRECTED BY FRSA.

UTILITIES

AT&T (COMMUNICATIONS)
G11629@ATT.COM

CITY OF ROCKFORD
JUSTIN EMERSON
JUSTIN.EMERSON@ROCKFORDIL.GOV
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MARTHA.GIERAS@CABLE.COMCAST.COM
(224) 229-5862

COMED (ELECTRIC)
PRT.IL@USICLLC.COM

FOUR RIVERS SANITATION AUTHORITY
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MCAMPBELL@FOURRIVERS.ILLINOIS.GOV
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ENGINEERING@I3BROADBAND.NET
(309) 670-0400

NICOR (GAS)
CHARLES PARROTT
GASMAPS@AGLRESOURCES.COM
(630) 388-3319

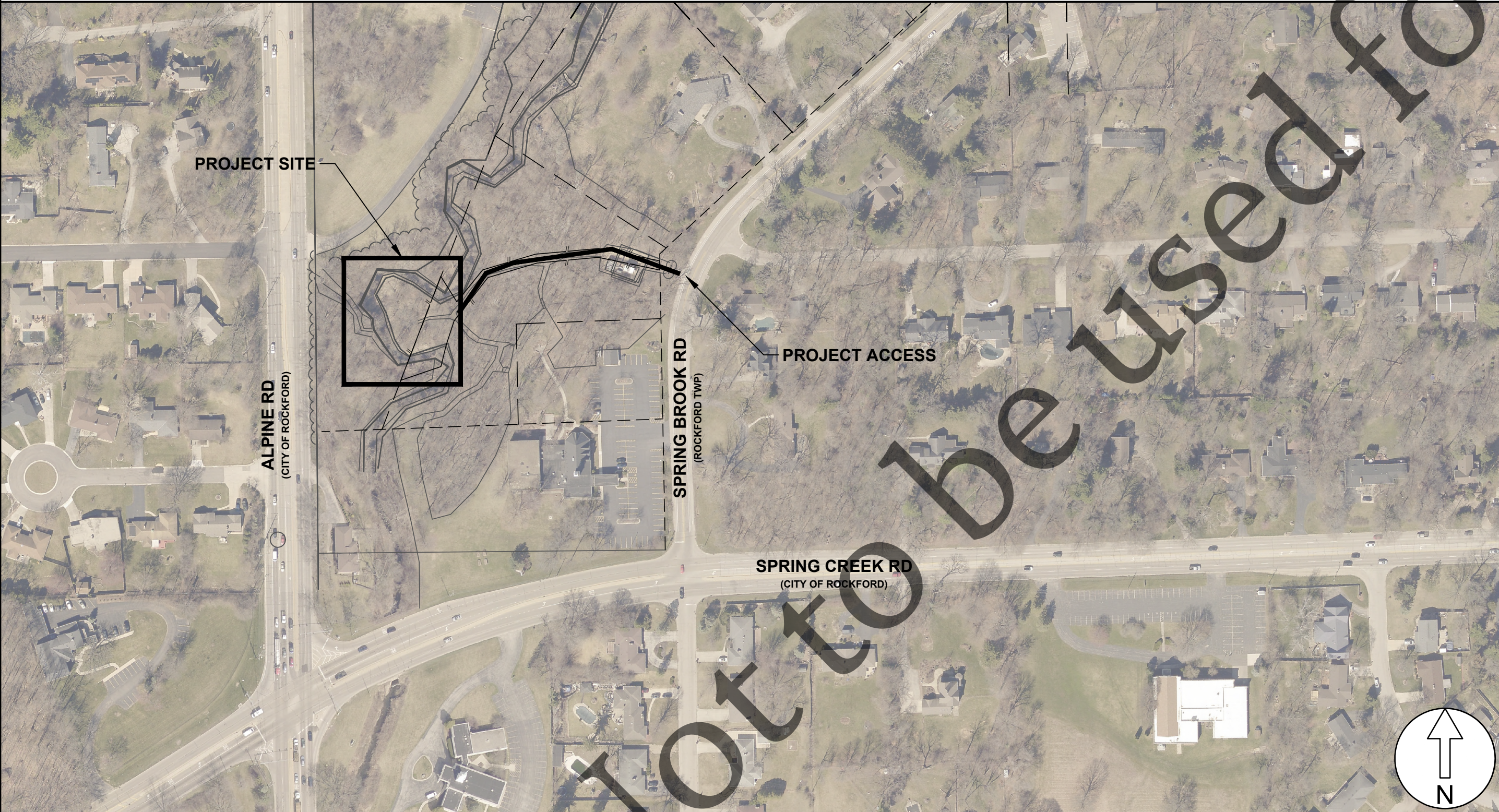
UNITI/WINDSTREAM
LOCATE.DESK@WINDSTREAM.COM
(800) 289-1901

SIFI NETWORKS
NOC@SNONETOPS.COM
(657) 217-2970

SUMMARY OF QUANTITIES

Item No.	Item Description	Unit	Qty.
1	Aggregate Ditch Checks	TON	41
2	Aggregate Surface Course, Type B 2"	SQ YD	251
3	Clearing	L SUM	1
4	Concrete Encasement for Sanitary Sewers, 20"	FOOT	83
5	Construction Layout	L SUM	1
6	Erosion Control Blanket	SQ YD	2114
7	Filter Fabric	SQ YD	915
8	Perimeter Erosion Barrier	FOOT	459
9	Riprap Slurry	SQ YD	786
10	Seeding, Class 1 and Fertilizing	SQ YD	2114
11	Stabilized Construction Entrance	SQ YD	88
12	Stone Riprap for Sanitary Sewer Stream Crossing, Class A5	SQ YD	862
13	Tree Removal (6 To 15 Units Diameter)	UNIT	36

PROJECT LOCATION & ACCESS MAP



No.	DATE	REVISION	INT.

CREEK CROSSING PROTECTION - SPRING CREEK
CAPITAL PROJECT #2686

GENERAL NOTES & SUMMARY OF QTYS

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Date:
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ALIGNMENT LINE TABLE				
LINE #	LENGTH (FT)	DIRECTION BEARING	START STATION	END STATION
L1	502.33	N27° 36' 48.28"E	STA. 4+68.72 N: 2052923.71 E: 2604456.63	STA. 9+71.05 N: 2053368.82 E: 2604689.47

BENCHMARK TABLE				
BM #	STA.	O/S	DESCRIPTION	ELEV.
321	6+67.58	31.6' LT	5/8" REBAR	789.86
322	6+34.73	37.6' LT	5/8" REBAR	787.76
HORIZONTAL DATUM IS BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 1983, WEST ZONE. VERTICAL DATUM IS BASED ON NAVD 1988. FIELD PROCEDURES UTILIZE THE WinGIS CONTROL NETWORK AND CORS STATION RRW1 AS BLUE BOOKED WITH NGS.				



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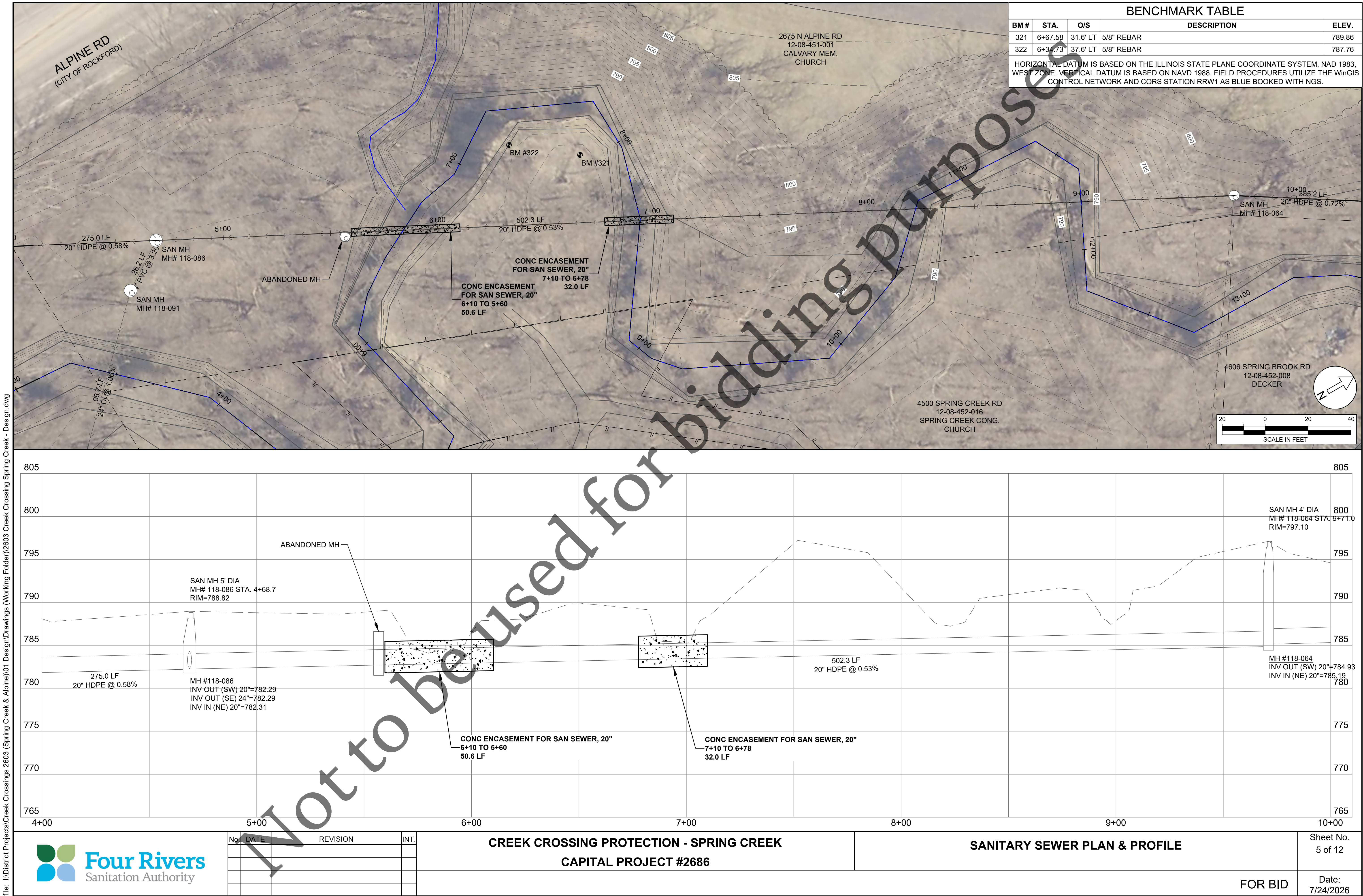
ALIGNMENT, TIES, & BENCHMARKS

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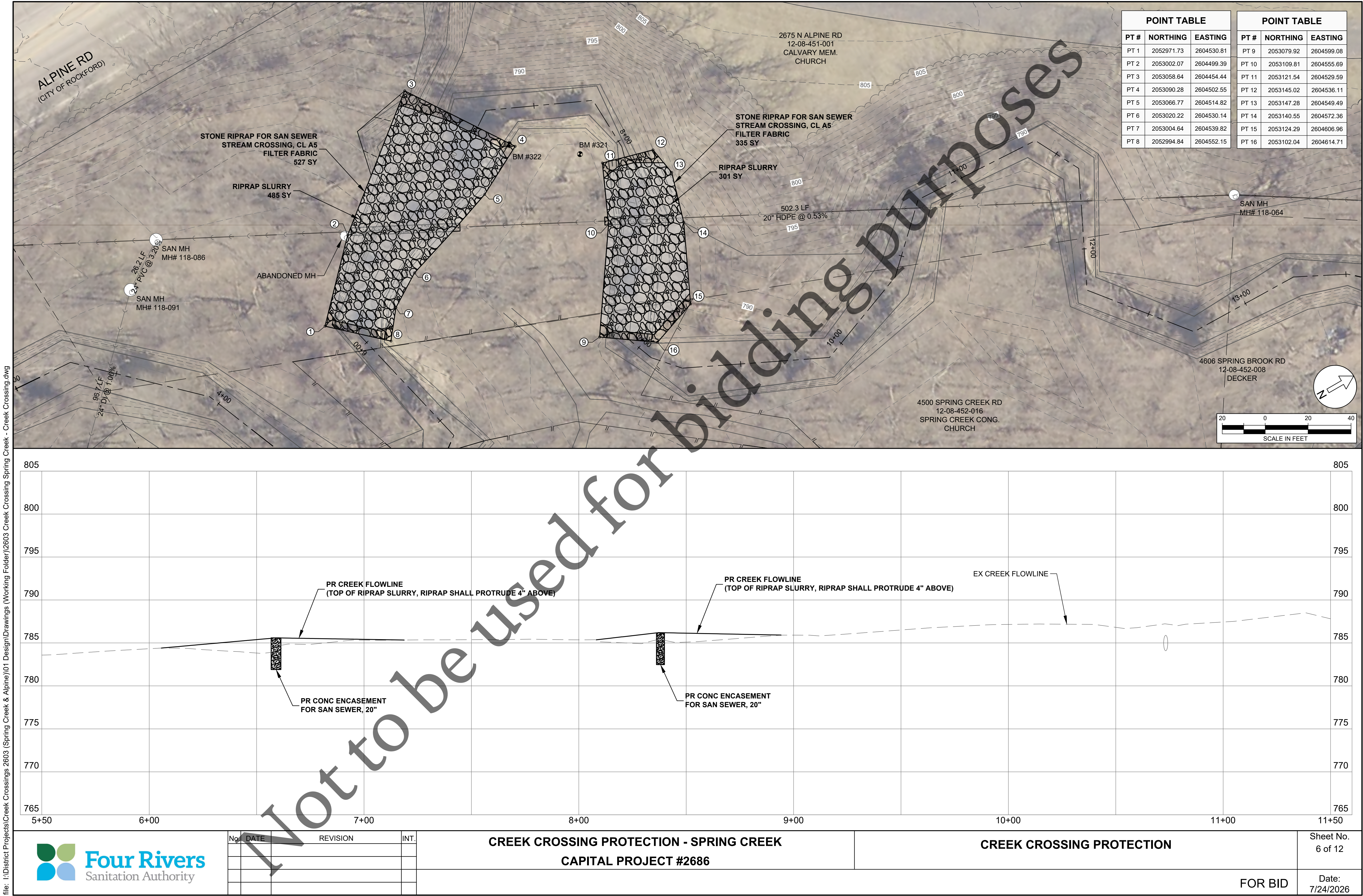
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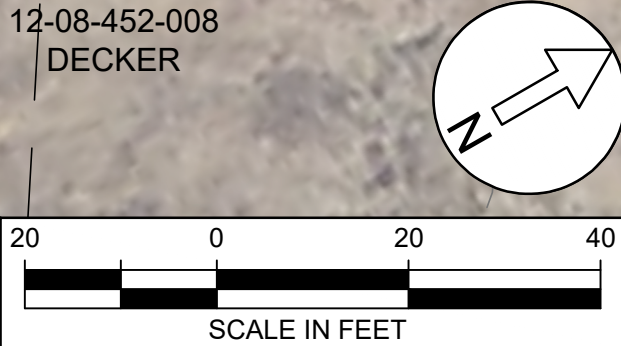


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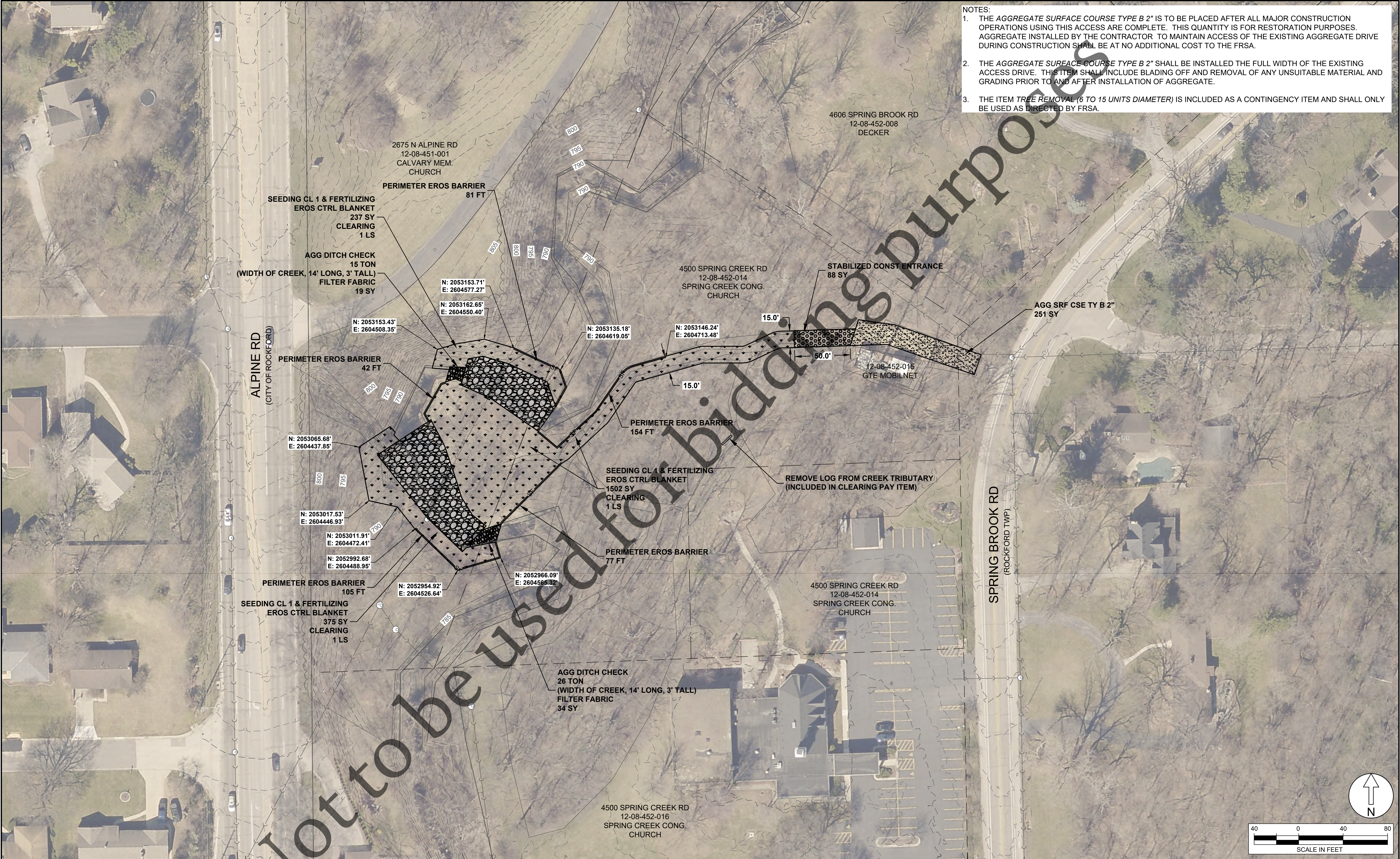
POINT TABLE		
PT #	NORTHING	EASTING
PT 1	2052971.73	2604530.81
PT 2	2053002.07	2604499.39
PT 3	2053058.64	2604454.44
PT 4	2053090.28	2604502.55
PT 5	2053066.77	2604514.82
PT 6	2053020.22	2604530.14
PT 7	2053004.64	2604539.82
PT 8	2052994.84	2604552.15

POINT TABLE		
PT #	NORTHING	EASTING
PT 9	2053079.92	2604599.08
PT 10	2053109.81	2604555.69
PT 11	2053121.54	2604529.59
PT 12	2053145.02	2604536.11
PT 13	2053147.28	2604549.49
PT 14	2053140.55	2604572.36
PT 15	2053124.29	2604606.96
PT 16	2053102.04	2604614.71



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- NOTES:
1. THE AGGREGATE SURFACE COURSE TYPE B 2" IS TO BE PLACED AFTER ALL MAJOR CONSTRUCTION OPERATIONS USING THIS ACCESS ARE COMPLETE. THIS QUANTITY IS FOR RESTORATION PURPOSES. AGGREGATE INSTALLED BY THE CONTRACTOR TO MAINTAIN ACCESS OF THE EXISTING AGGREGATE DRIVE DURING CONSTRUCTION SHALL BE AT NO ADDITIONAL COST TO THE FRSA.
 2. THE AGGREGATE SURFACE COURSE TYPE B 2" SHALL BE INSTALLED THE FULL WIDTH OF THE EXISTING ACCESS DRIVE. THIS ITEM SHALL INCLUDE BLADING OFF AND REMOVAL OF ANY UNSUITABLE MATERIAL AND GRADING PRIOR TO AND AFTER INSTALLATION OF AGGREGATE.
 3. THE ITEM TREE REMOVAL (6 TO 15 UNITS DIAMETER) IS INCLUDED AS A CONTINGENCY ITEM AND SHALL ONLY BE USED AS DIRECTED BY FRSA.



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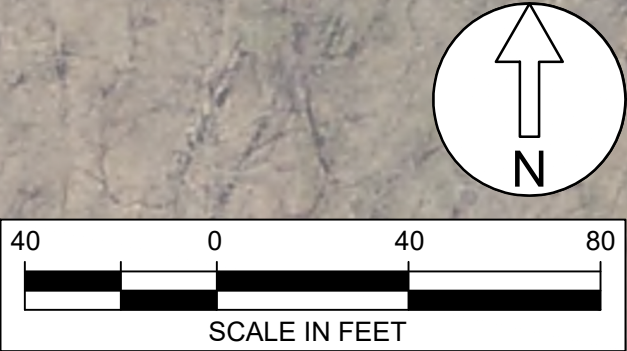
CREEK CROSSING PROTECTION - SPRING CREEK
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TEMPORARY EROSION CONTROL, REMOVALS, & PERMANENT SEEDING

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EROSION CONTROL NOTES

GENERAL NOTES

THE ESTIMATED AREA OF DISTURBANCE FOR THIS PROJECT IS LESS THAN 1 ACRE. THEREFORE, A NOTICE OF INTENT (NOI) WILL NOT BE FILED. AN EROSION CONTROL PLAN HAS BEEN PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS URBAN MANUAL, CURRENT EDITION, IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, THE FOUR RIVERS SANITATION AUTHORITY (FRSA), AND THE PROJECT SPECIFICATIONS AND DETAILS.

THE EROSION CONTROL DEVICES, MATERIALS AND PROCEDURES SHOWN IN THESE PLANS ARE TO BE CONSIDERED A MINIMUM. ADDITIONAL DEVICES OR MATERIALS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS, AT THE DIRECTION OF THE ENGINEER. ANY DEVICES, MATERIALS, OR PROCEDURES REQUIRED BY THE ENGINEER DUE TO THE CONTRACTOR'S ACTIONS OR NEGLIGENCE WILL BE AT NO ADDITIONAL COST TO THE FRSA.

ALL DISTURBED AREAS SHALL BE SEEDED UNLESS AGRICULTURAL OR OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR IS RESTRICTED TO WORK IN TEMPORARY EASEMENTS OR WORK AREAS Delineated ON PLANS. THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AND MEASURES ARE DEEMED NECESSARY BY THE FRSA OR AUTHORIZED AGENCY TO ELIMINATE EXCESSIVE SILTATION OR EROSION AND TO STABILIZE THE PROJECT AREA. DISCHARGE OF HAZARDOUS SUBSTANCES INTO STORM WATER IS SUBJECT TO IEPA REPORTING AND CLEANUP REQUIREMENTS.

CONTROL MEASURES

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE BEFORE CONSTRUCTION IN EACH AREA, AS DETERMINED BY THE ENGINEER, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. CONSTRUCTION ACTIVITIES SHALL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICAL. THE FOLLOWING CONTROLS WILL BE PROVIDED AS A MINIMUM FOR THE DURATION OF THIS PROJECT:

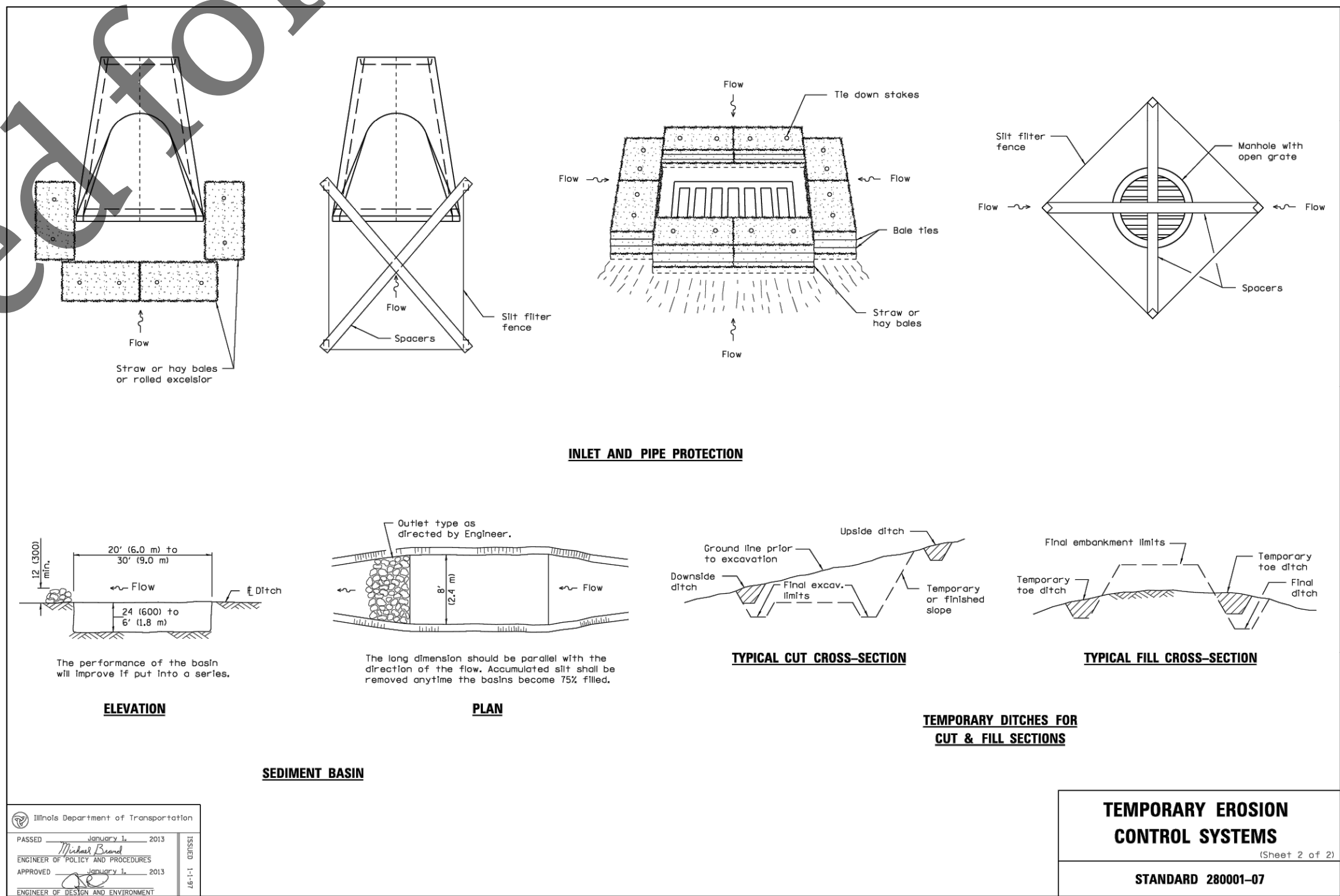
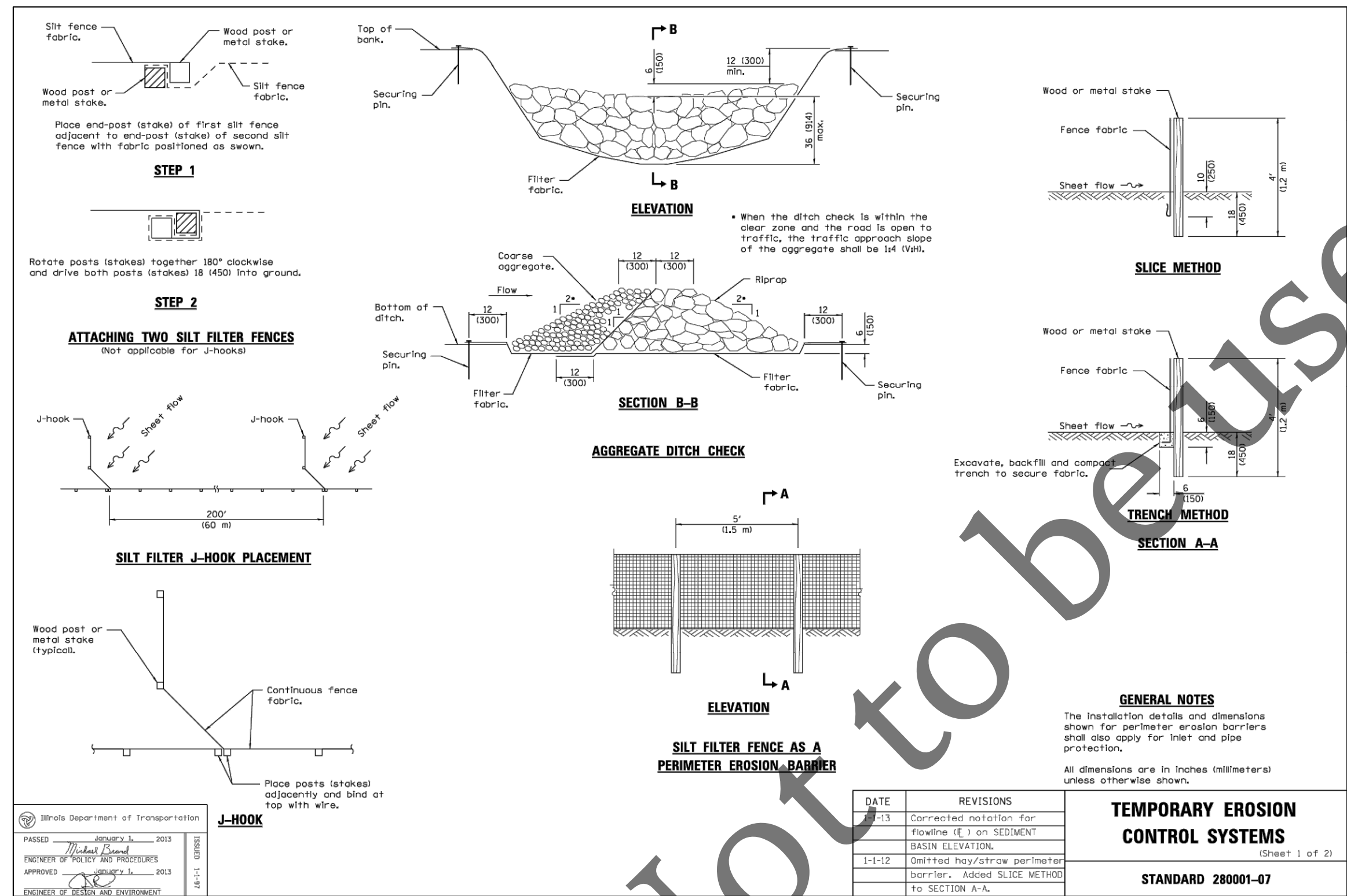
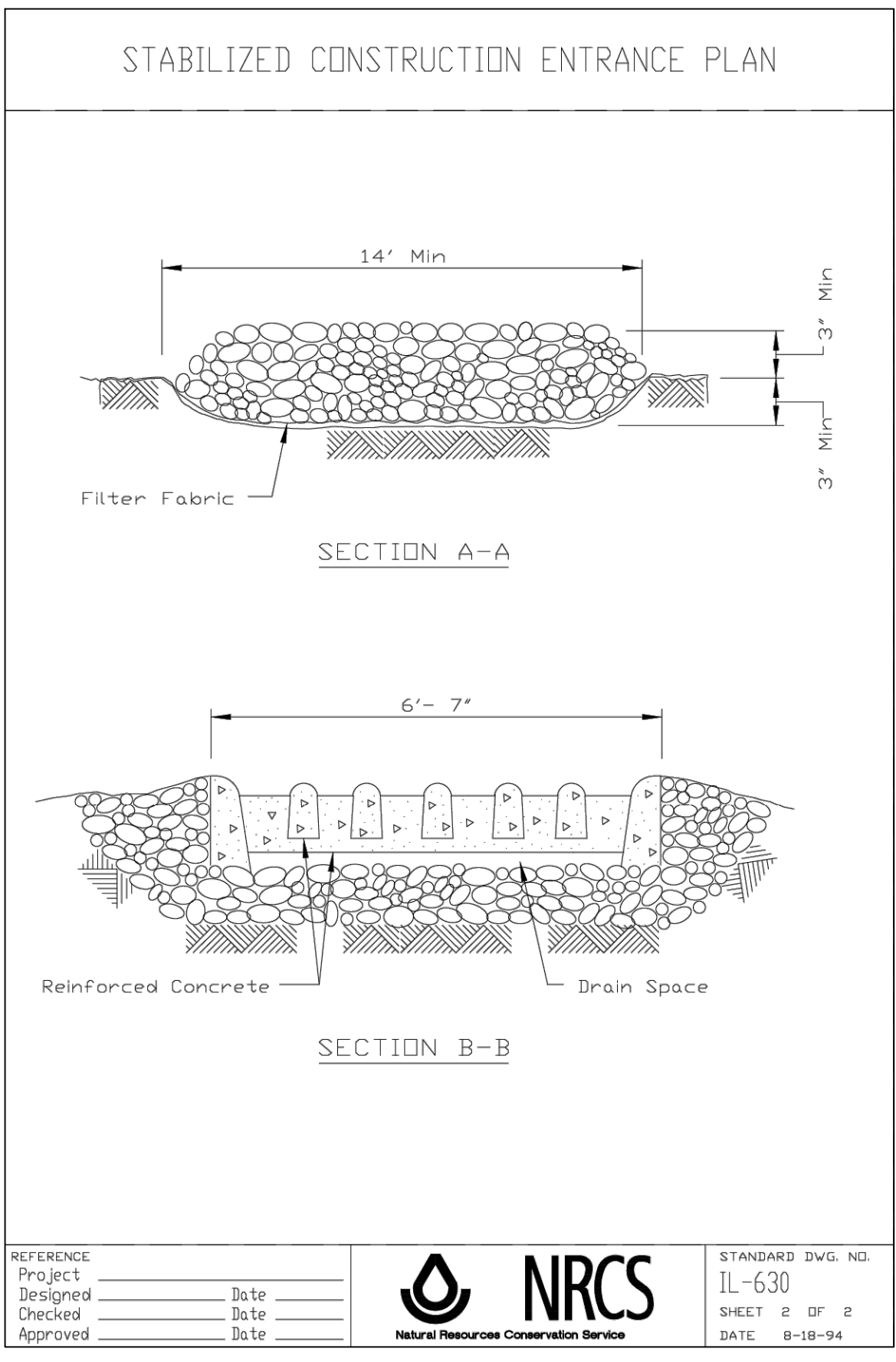
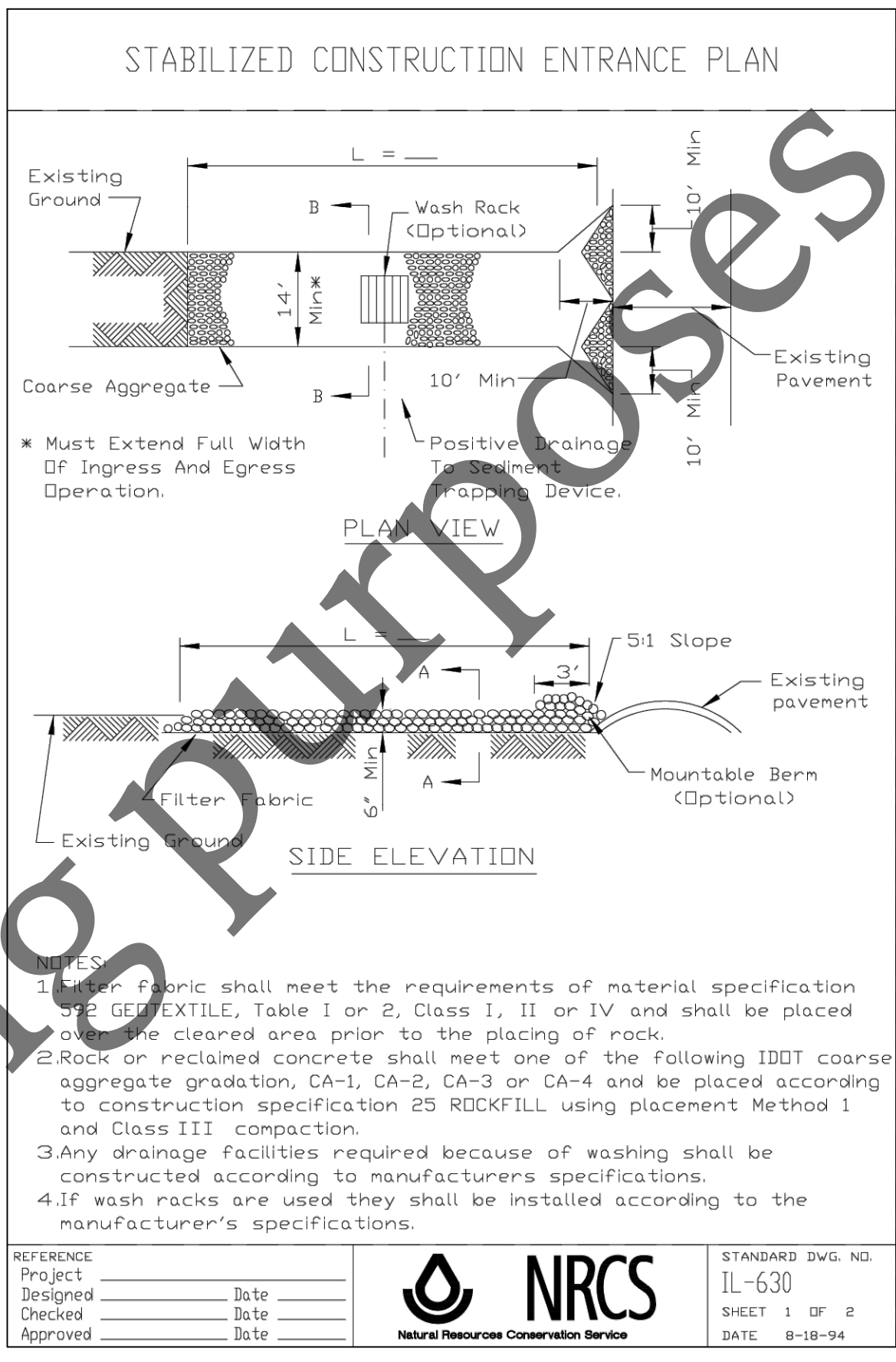
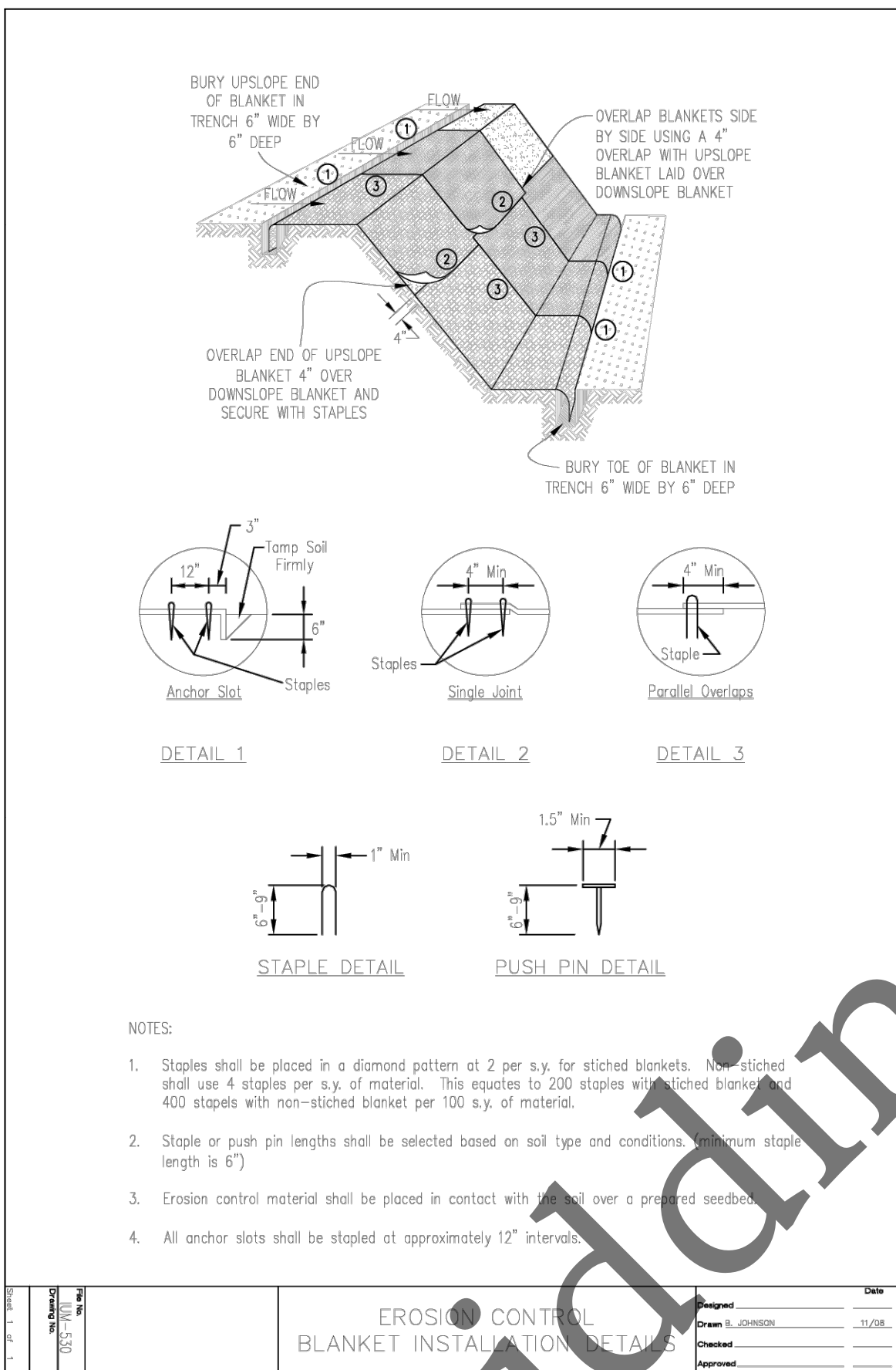
- SEDIMENT CONTROL SHALL BE PROVIDED DOWNSLOPE OF ALL STOCKPILE AREAS.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE INSTALLED AS DETAILED AND WHERE REQUIRED BY THE ROADWAY AUTHORITY OR FRSA.
- INLET PROTECTION MUST BE INSTALLED FOR ALL INLETS THAT COULD BE SUBJECT TO SILTATION, AS DETERMINED BY THE ENGINEER.
- ALL ROADWAYS SHALL BE KEPT CLEAN OF DEBRIS, MUD, SOIL, AND CONSTRUCTION MATERIALS AND SHALL BE INSPECTED AT THE END OF EACH DAY AND CLEANED AS NECESSARY.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS IF THEY ARE TO REMAIN DISTURBED FOR MORE THAN 14 DAYS.

MAINTENANCE

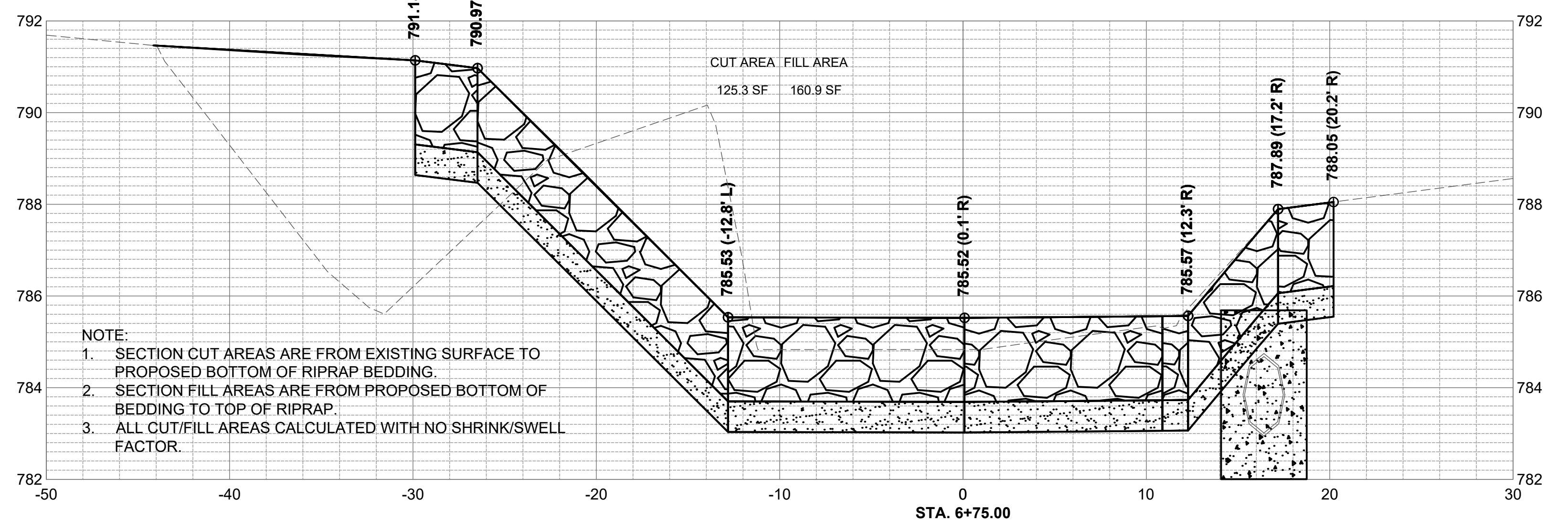
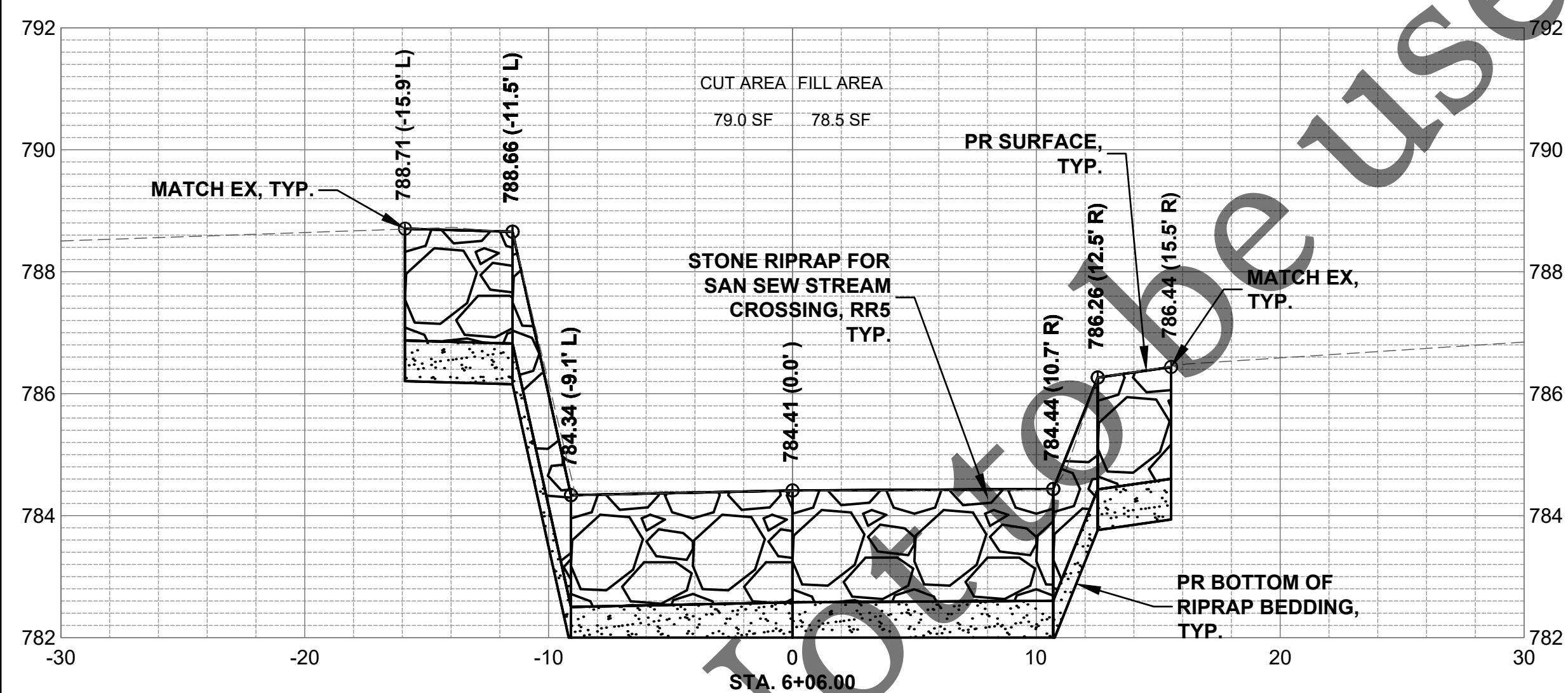
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND PROTECTIVE MEASURES AS REQUIRED TO MAINTAIN THE INTENDED FUNCTION. SEDIMENT COLLECTED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS NEEDED. ANY DEBRIS OR SILT DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, DITCHES, ETC., THAT COULD OBSTRUCT FLOW SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES WITHIN 30 DAYS OF FINAL SITE STABILIZATION APPROVAL BY THE FRSA. THE SITE SHALL HAVE A MIN. OF 70% VEGETATIVE COVER TO BE CONSIDERED STABILIZED.

OTHER DISCHARGES

NON STORM WATER DISCHARGES INCLUDING WASHING OF VEHICLES, CONCRETE WASH-OUT, WATER FOR DUST CONTROL, AND TRENCH DEWATERING DISCHARGES SHALL BE DIRECTED AWAY FROM UNPROTECTED, BARE, OR UNSTABILIZED SOIL AND APPROPRIATE MEASURES SHALL BE IMPLEMENTED TO PREVENT EROSION OR RUNOFF FROM THE SITE. DEWATERING DISCHARGE MUST BE INTO SILT CONTAINMENT BAGS WITH PROPERLY ENGINEERED ANIONIC POLYMER AND FABRIC PORE SIZE. UNDER NO CIRCUMSTANCE SHALL DEWATERING DISCHARGE BE ALLOWED TO FLOW DIRECTLY INTO WATERWAYS. A DEWATERING DISCHARGE PLAN SHALL BE SUBMITTED TO THE FRSA FOR APPROVAL.



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NOTE:

1. SECTION CUT AREAS ARE FROM EXISTING SURFACE TO PROPOSED BOTTOM OF RIPRAP BEDDING.
2. SECTION FILL AREAS ARE FROM PROPOSED BOTTOM OF BEDDING TO TOP OF RIPRAP.
3. ALL CUT/FILL AREAS CALCULATED WITH NO SHRINK/SWELL FACTOR.

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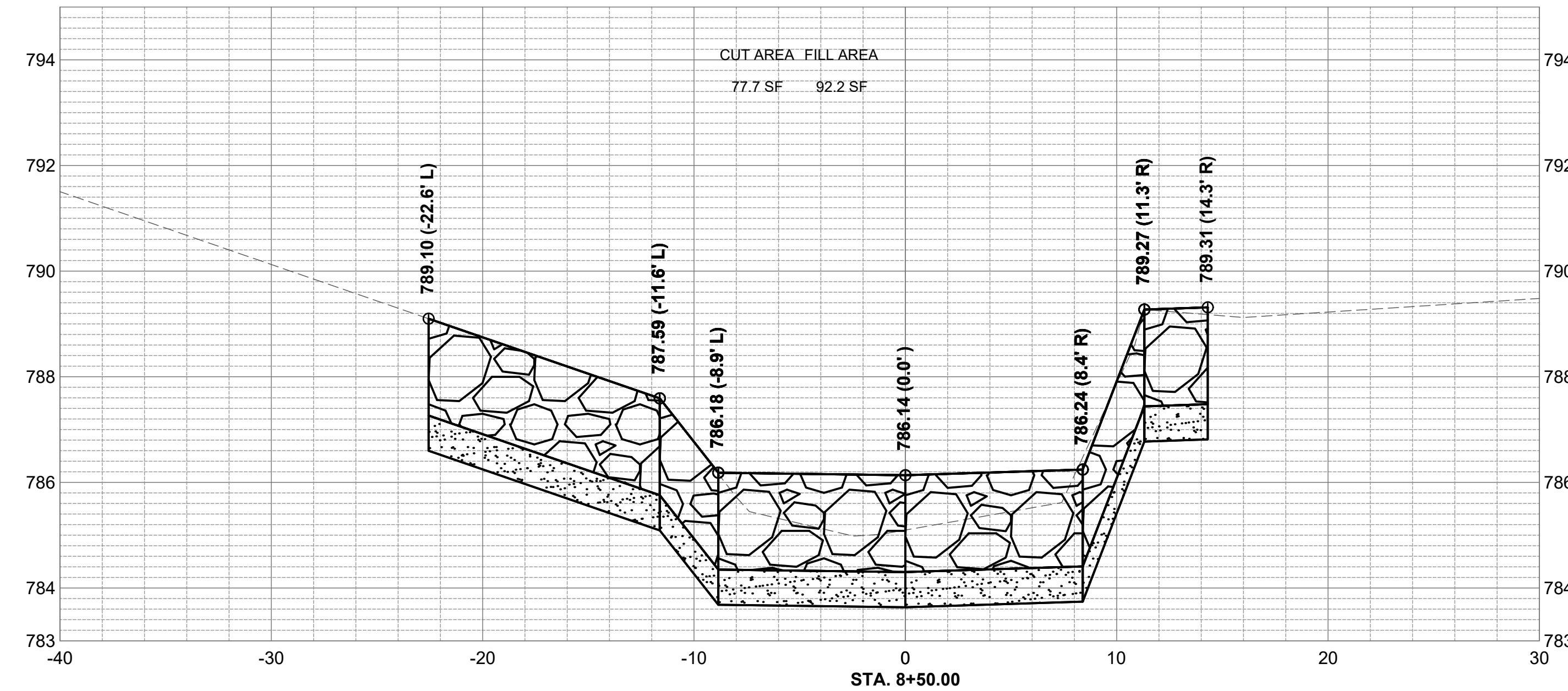
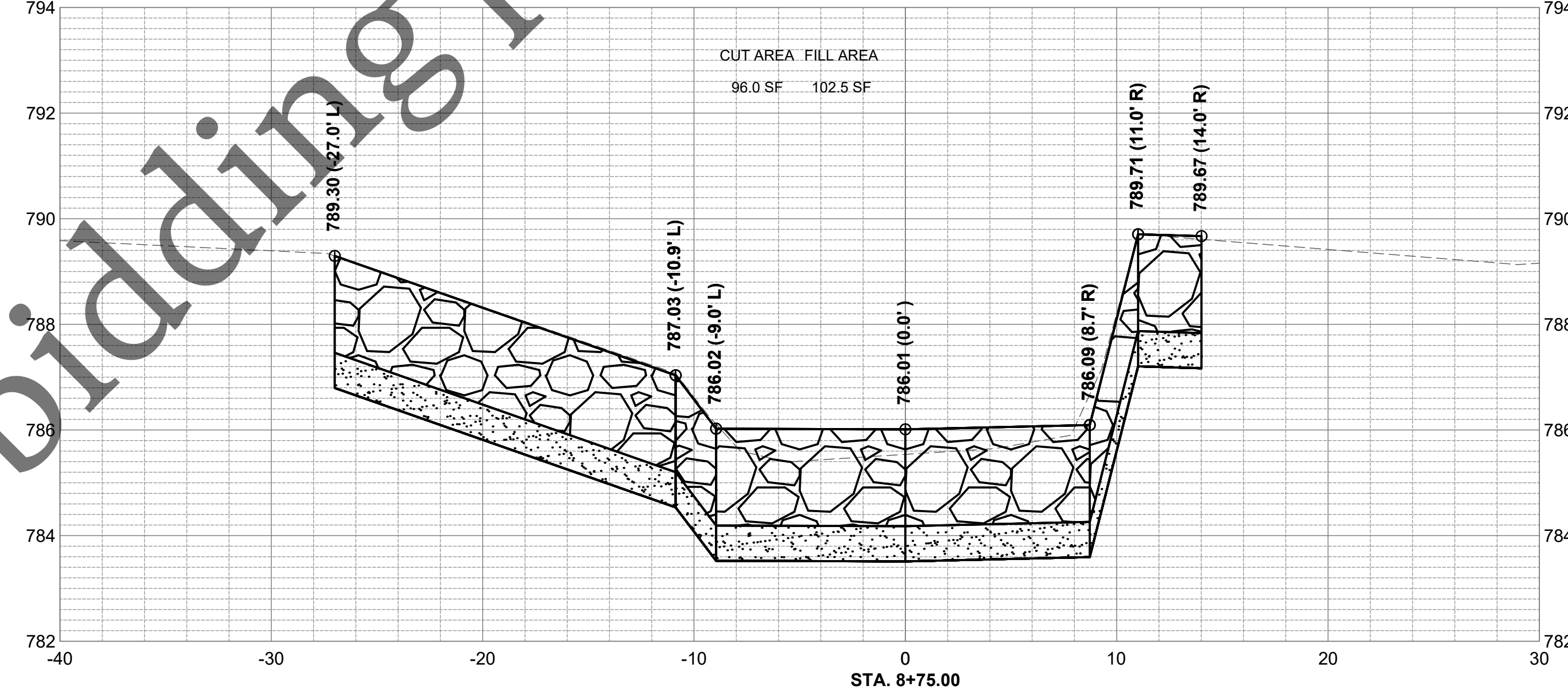
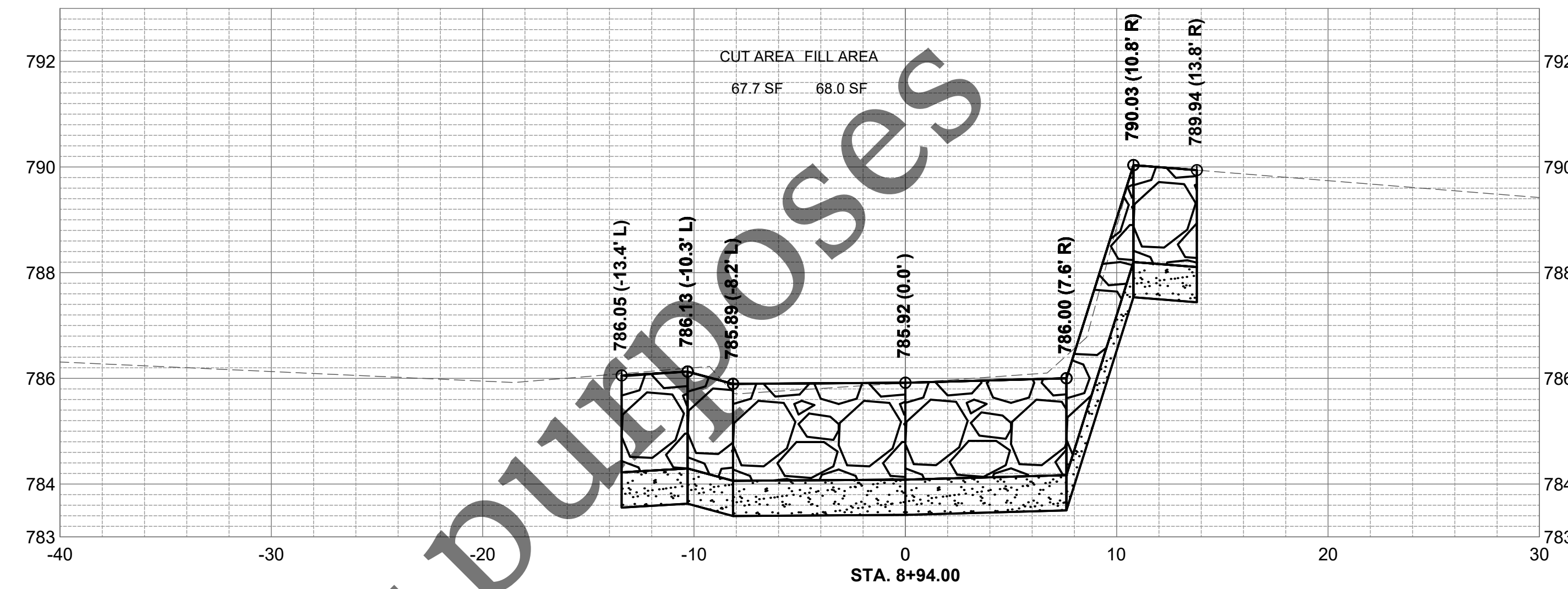
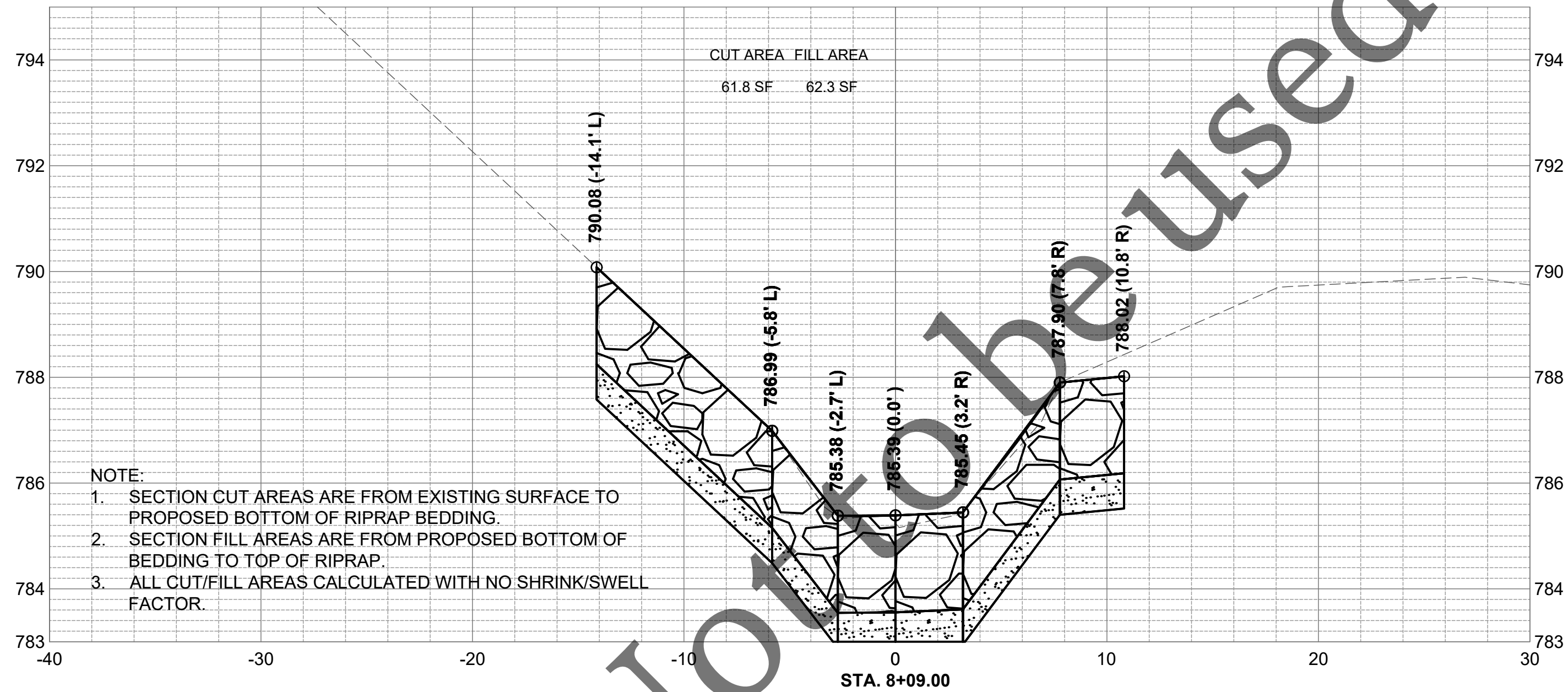
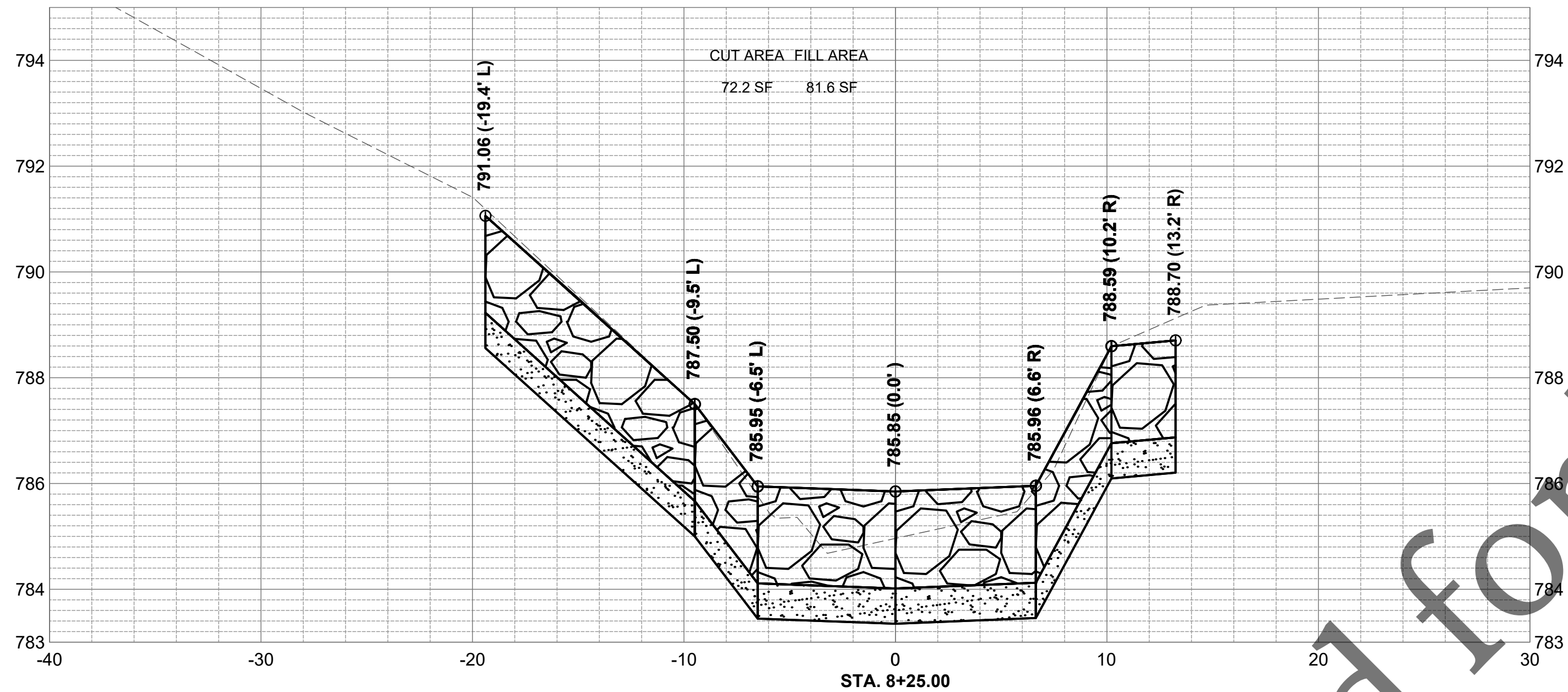
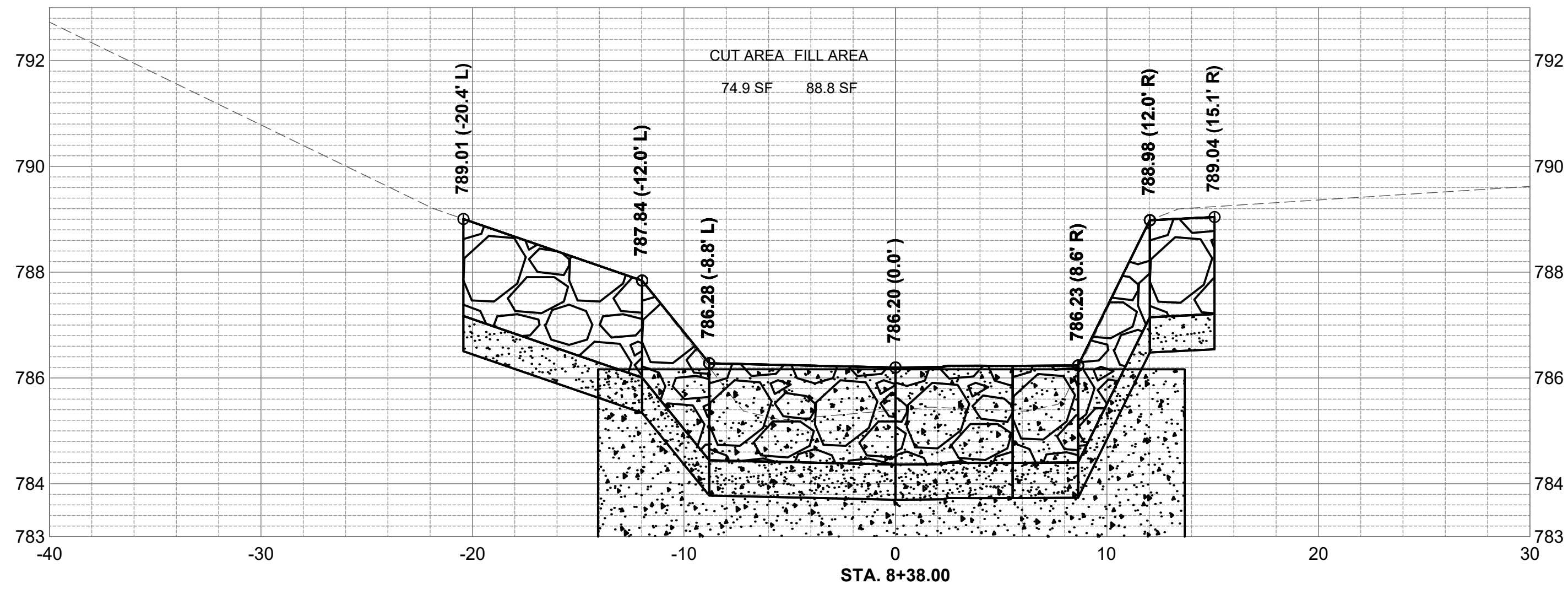
CREEK SECTIONS 1

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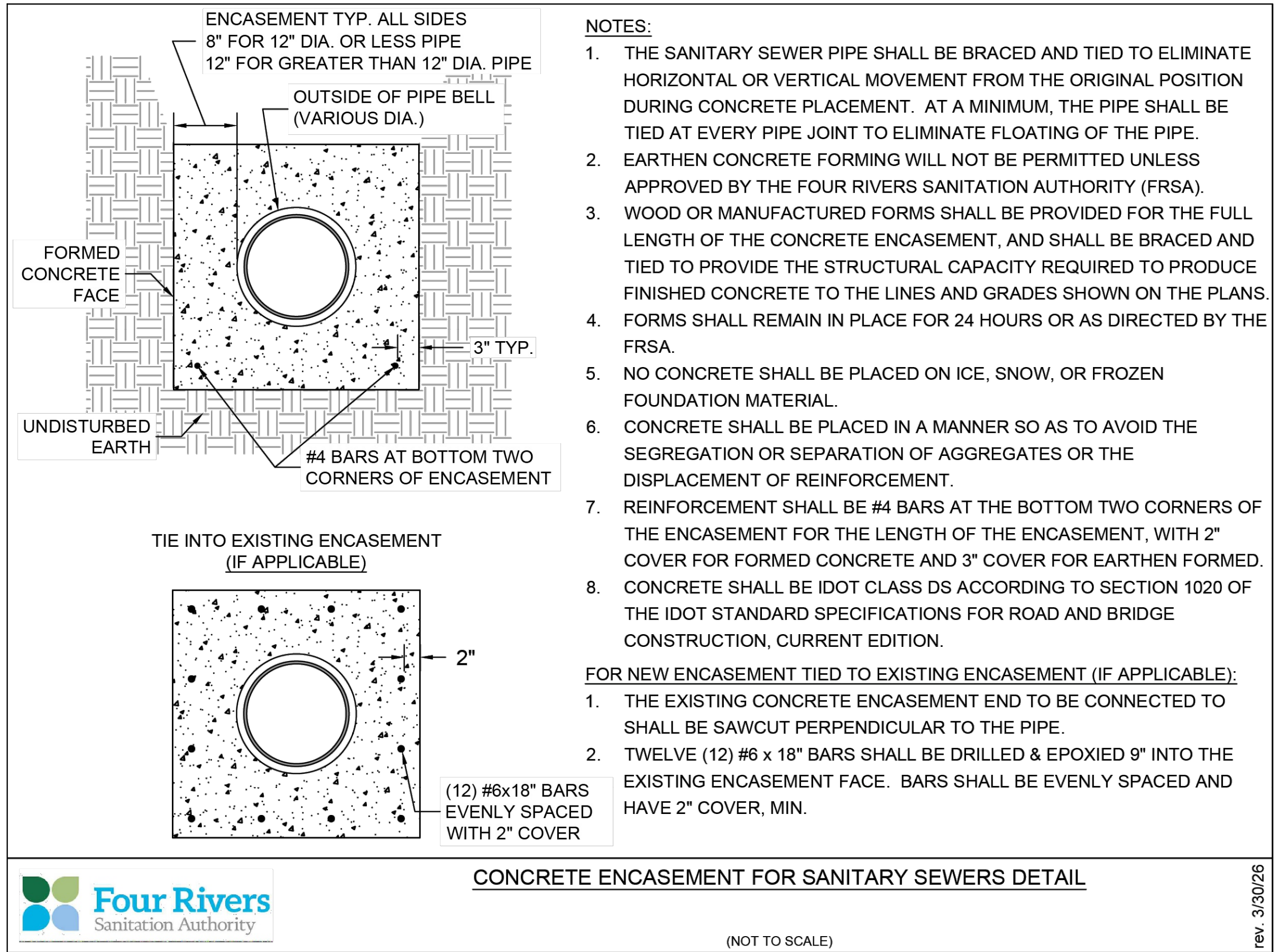
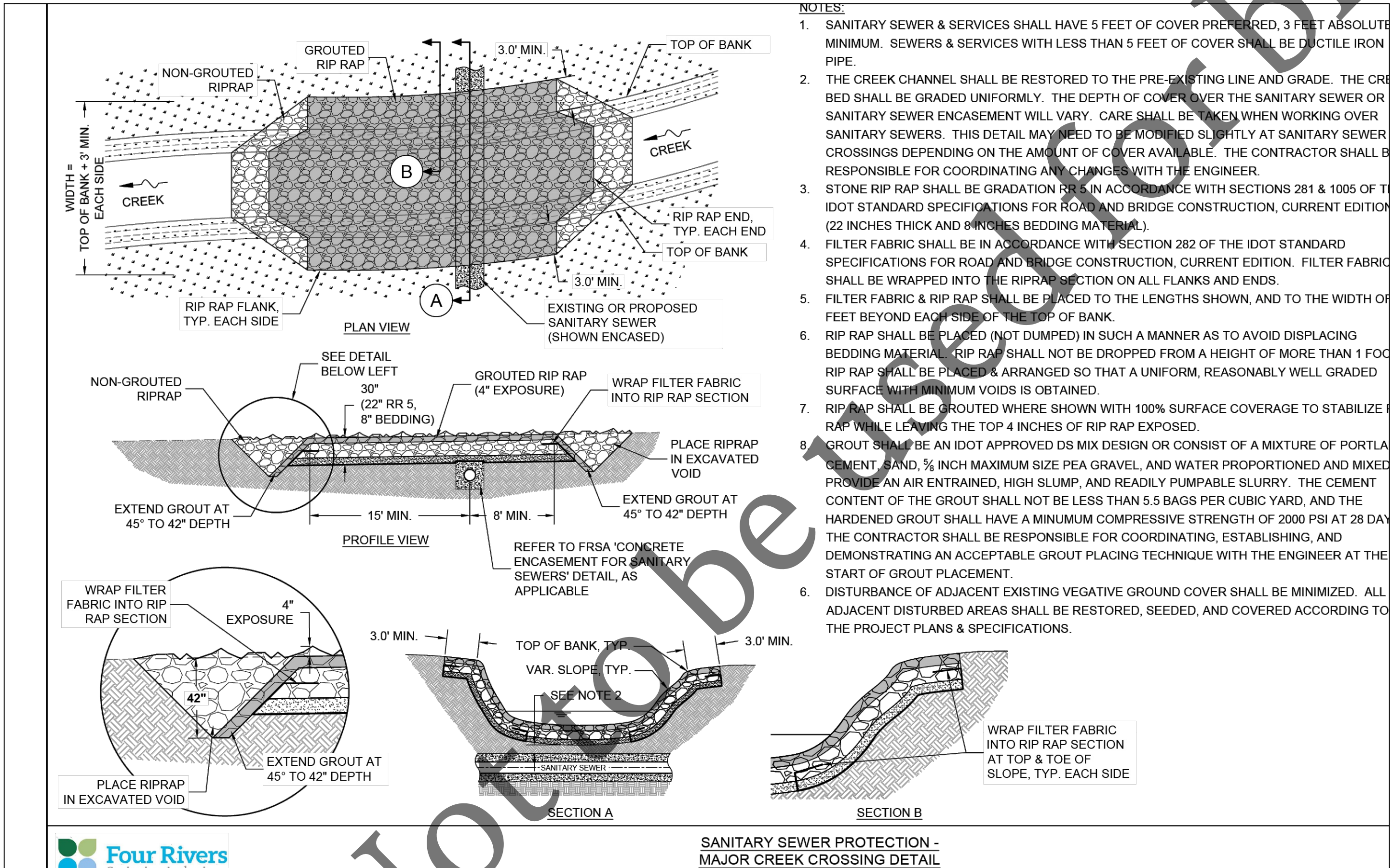
CREEK SECTIONS 2

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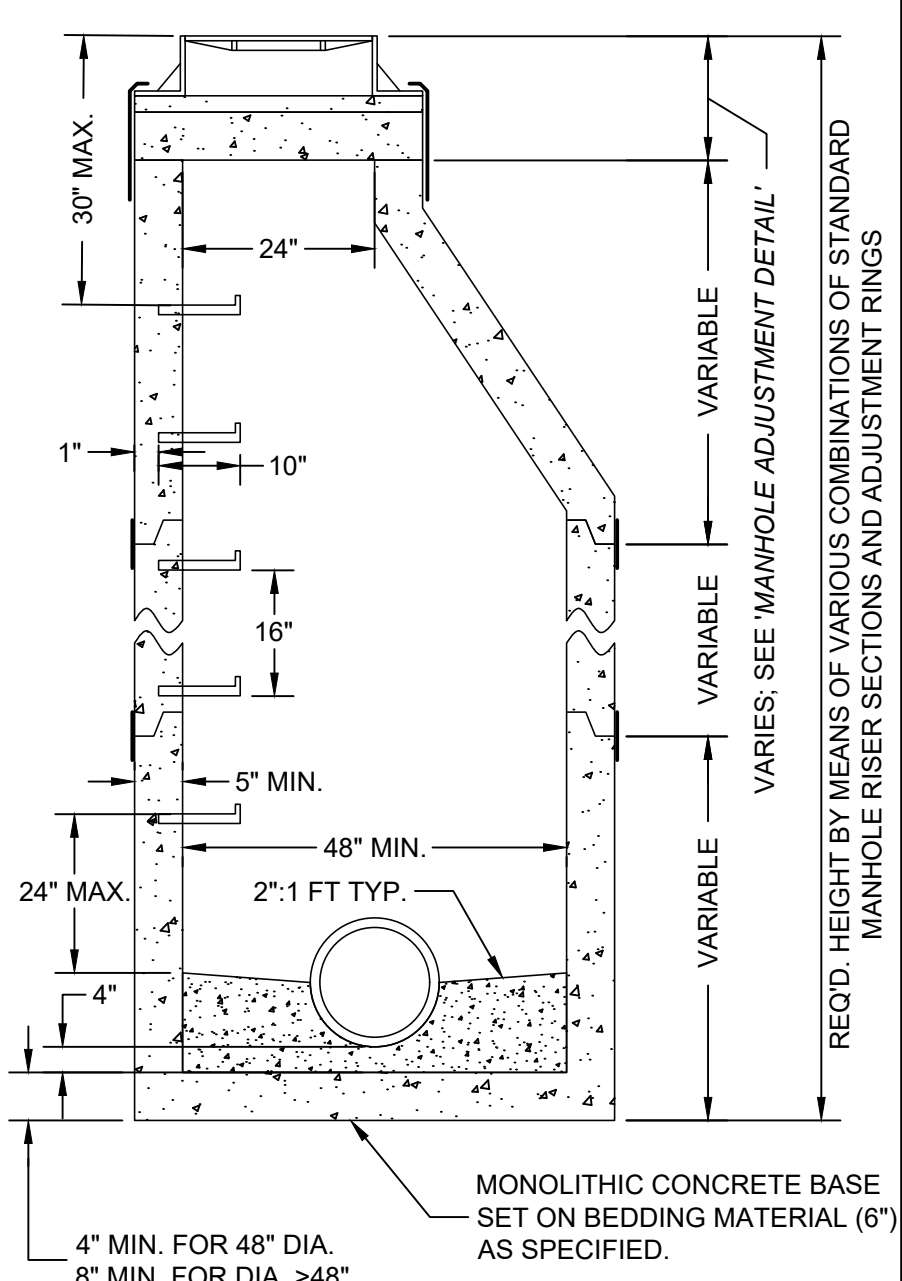


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- NOTES:
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
 2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
 3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
 4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 1/2" x 3/8" PRE-FORMED RUBBER BUTYL JOINT SEALANT ON THE LOWER SHIPLAP.
 5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP, OR APPROVED EQUAL).
 6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
 7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
 8. SEE 'MANHOLE ADJUSTMENT DETAIL' FOR ADJUSTMENT REQUIREMENTS.
 9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM C-923 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM C-923 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
 10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
 11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. DISTANCES GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER 'INSIDE DROP CONNECTION DETAIL'.
 12. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL INSTALLED AT 16" CENTERS, ORIENTED ABOVE THE OUTLET PIPE UNLESS OTHERWISE SPECIFIED. FOR MANHOLES WITH INSIDE DROP ASSEMBLIES, STEPS IN THE MANHOLE BASE SECTION SHALL BE INSTALLED IN THE FIELD AND NOT CAST IN PLACE. IN THIS CASE, THE ORIENTATION OF THE CONE SHALL BE AS DIRECTED BY FRSA.

STANDARD MANHOLE DETAIL

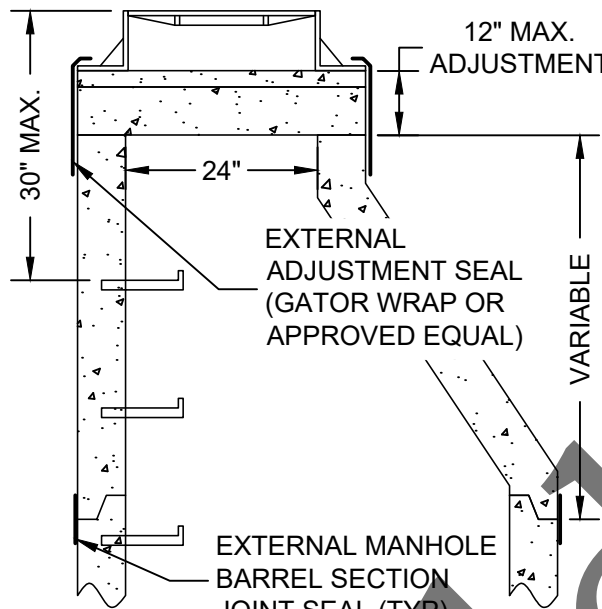
('MANHOLE ADJUSTMENT DETAIL' SHALL APPLY)



13. THE TOP HALF OF INLET & OUTLET PIPES ≤12" DIA. SHALL BE CUT FLUSH WITH THE MANHOLE WALL. HYDRAULIC CEMENT (XYPEX PATCH N PLUG OR APPROVED EQUAL) SHALL BE PLACED IN THE ENTIRE VOID BETWEEN ALL PIPES AND MANHOLE OPENINGS.

- NOTES:
1. MANHOLE FRAMES & LIDS SHALL BE PER THE TABLE BELOW.
 2. FOR MANHOLES CONNECTED TO MAINS 18" DIAMETER OR LARGER, OR FOR MANHOLES LOCATED IN FLOOD PRONE AREAS, FRAMES & LIDS SHALL BE THE BOLT DOWN TYPE.
 3. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE (4" HEIGHT MIN.), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN EPP RING.
 4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO ADJUSTING RING JOINT SHALL BE SEALED WITH TWO 1" BEADS OF PRE-FORMED RUBBER BUTYL JOINT SEALANT. WHEN A FRAME REQUIRES PITCHING, EPP TAPER RINGS SHALL BE USED PER NOTE 5.
 5. FOR EPP ADJUSTING RINGS, RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE A TAPERED ADJUSTMENT RING PER MANUFACTURER'S INSTRUCTIONS.
 6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
 7. MAXIMUM MANHOLE ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
 8. MANHOLE FRAMES SHALL BE SET 1/4" MIN. TO 3/8" MAX. BELOW PAVED SURFACES, AND AT FINAL GRADE IN TURF AREAS.
 9. WHEN ADJUSTING EXISTING MANHOLES, THE ENTIRE EXISTING ADJUSTMENT SHALL BE REMOVED AND REPLACED.

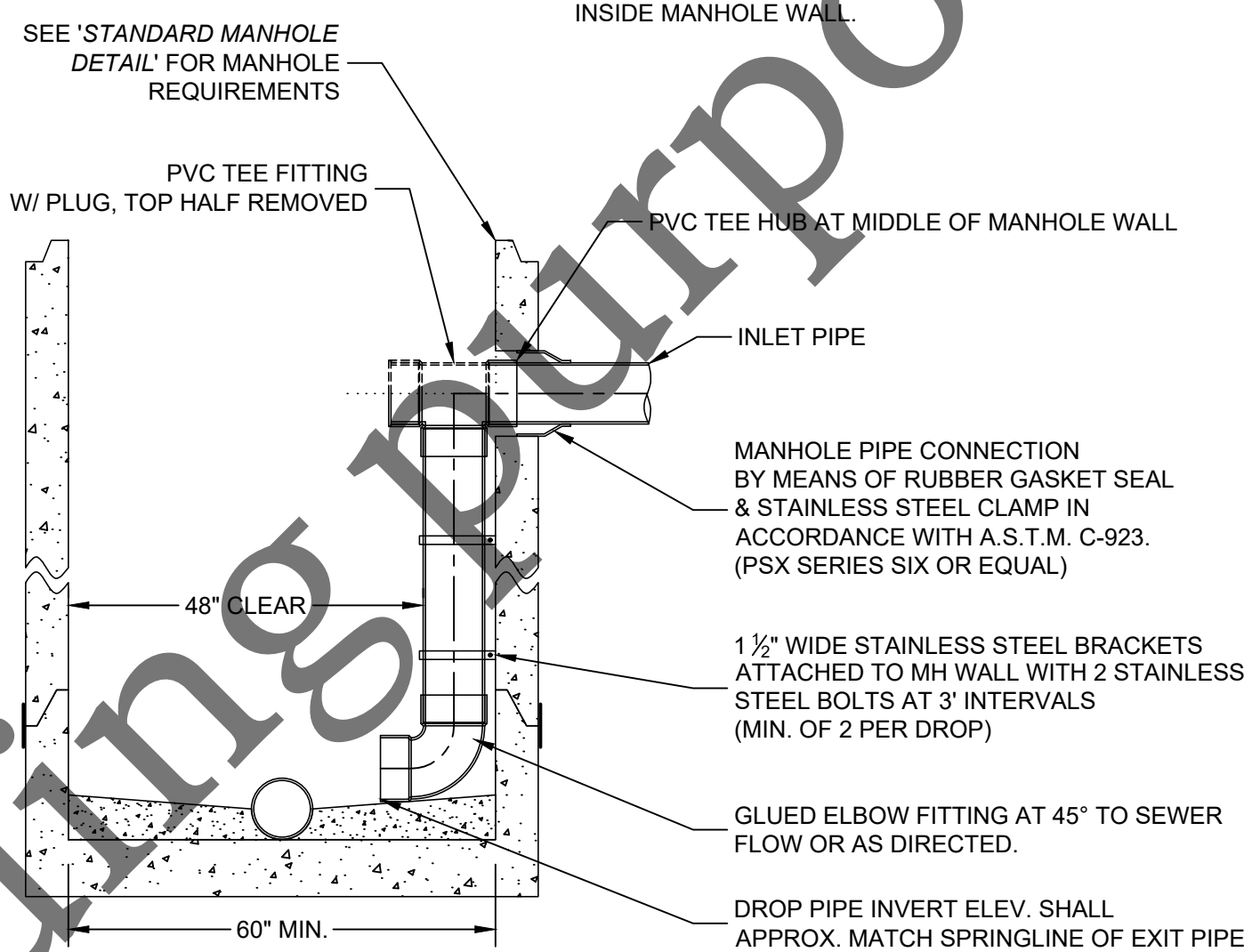
APPROVED FRAME & LID TABLE				
TYPE	NEENAH FRAME	NEENAH LID	EAST JORDAN FRAME	EAST JORDAN LID
REGULAR	1670-2004	R-1670-0358	00111711	00111732
LOW PROFILE	1670-2008	R-1670-0358	---	---
BOLT DOWN	1915JT08		---	---



MANHOLE ADJUSTMENT DETAIL

(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

INLET PIPE DIA.	MANHOLE I.D.	DROP PIPE DIA.
4-6 INCH	60 INCH	4 INCH
8 INCH	60 INCH	8 INCH
10 INCH	60 INCH	8 INCH
12 INCH	60 INCH	8 INCH
> 12 INCH	AS DIRECTED BY FRSA	



INSIDE DROP CONNECTION DETAIL

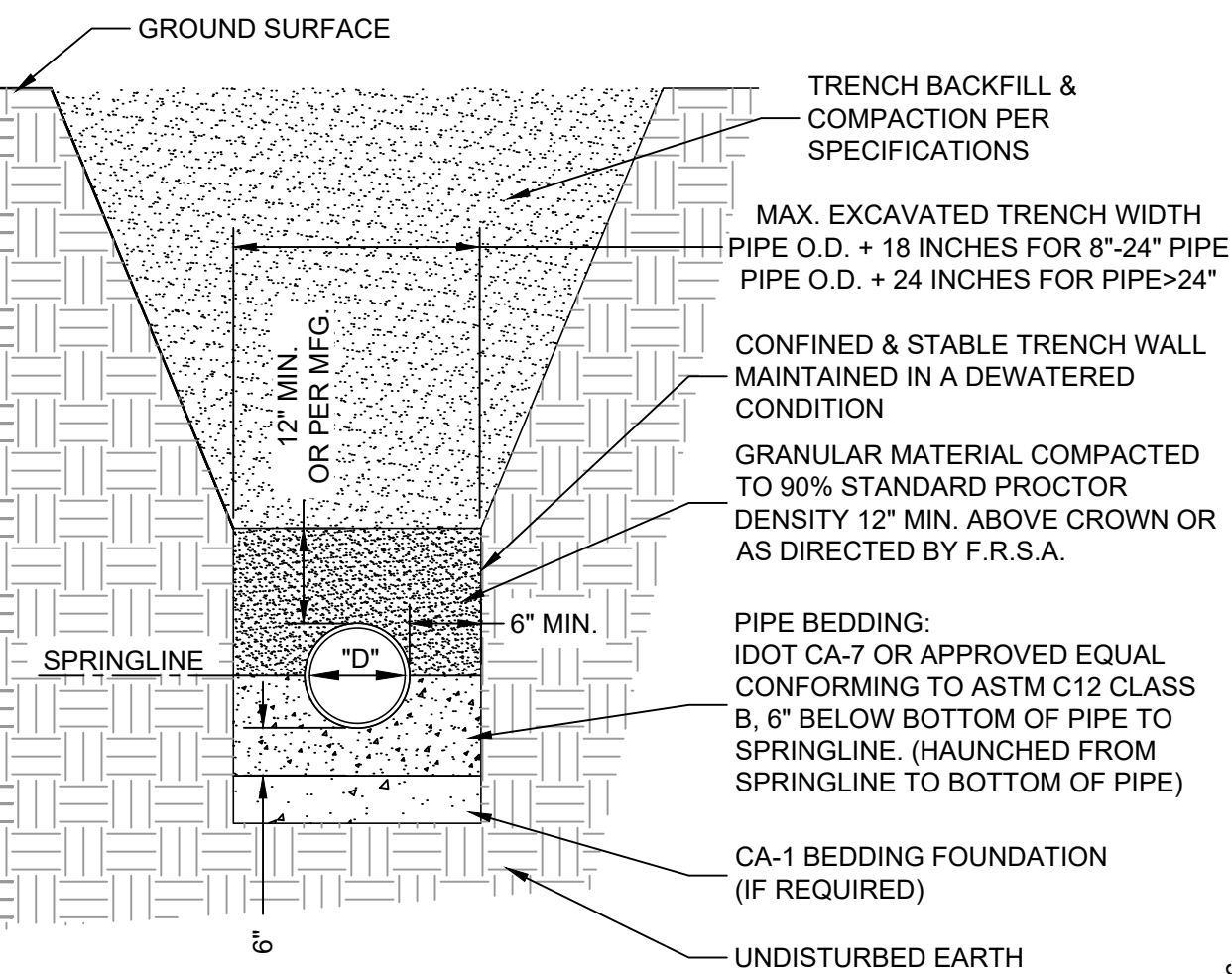
('STANDARD MANHOLE DETAIL' SHALL APPLY)

- NOTES:
1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
 2. ALL INSIDE DROP PIPING & FITTINGS SHALL BE PVC SCH 40 ASTM D1785 FOR ASTM D2241 INCOMING PIPE, OR SDR 35 ASTM D3034 FOR ASTM D3034 INCOMING PIPE WITH GLUED JOINTS.
 3. ATTACH EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH 3/8" x 1" MIN. STAINLESS STEEL BOLTS AND EPOXY IMPREGNATED LUGS PER MFR.'S RECOMMENDATIONS.
 4. THE UPSTREAM END OF THE PVC TEE FITTING SHALL BE POSITIONED AT THE MIDDLE OF THE MANHOLE WALL.
 5. PVC TEE FITTING SHALL INCLUDE A PLUG. THE TOP HALF OF THE FITTING AND PLUG SHALL BE REMOVED TO THE INSIDE MANHOLE WALL.

- NOTES:
1. FOR NEW MAINLINE, FACTORY PVC WYE FITTING SHALL BE USED.
 2. FOR EX. MAINLINE, HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFR.'S REQUIREMENTS. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
 3. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER 'FLEXIBLE PIPE BEDDING DETAIL', 6" BELOW AND 12" ABOVE PIPING.
 4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER STANDARD SERVICE & ALTERNATE SERVICE DETAIL.
 5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL).
 6. UNDERGROUND MAGNETIC MARKERS SHALL BE BERNSTEN INTERNATIONAL DEEP-1UG OR FRSA APPROVED EQUAL.

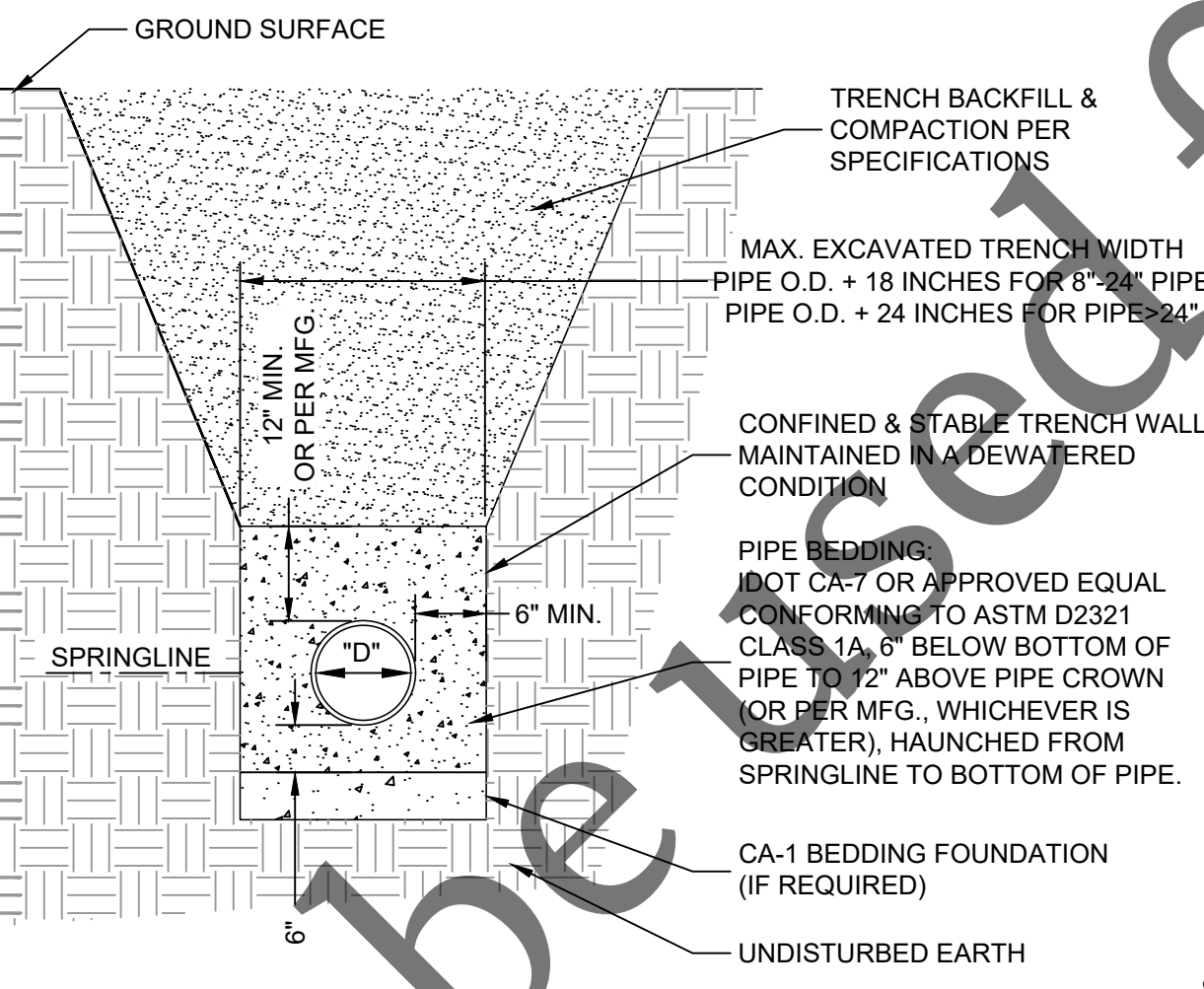
VERTICAL SERVICE RISER DETAIL

- NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
 2. LOOSE MATERIAL SHALL BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
 3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



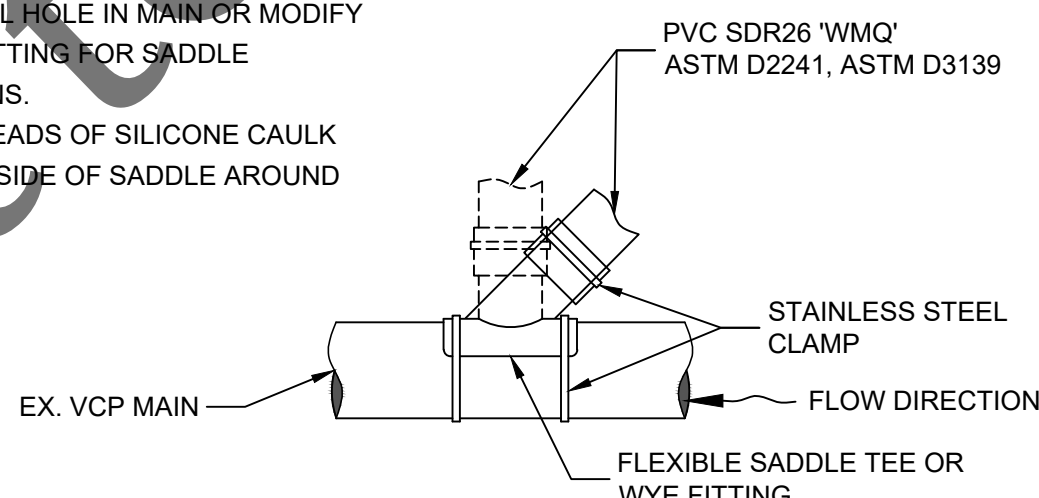
RIGID PIPE BEDDING DETAIL

- NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
 2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
 3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



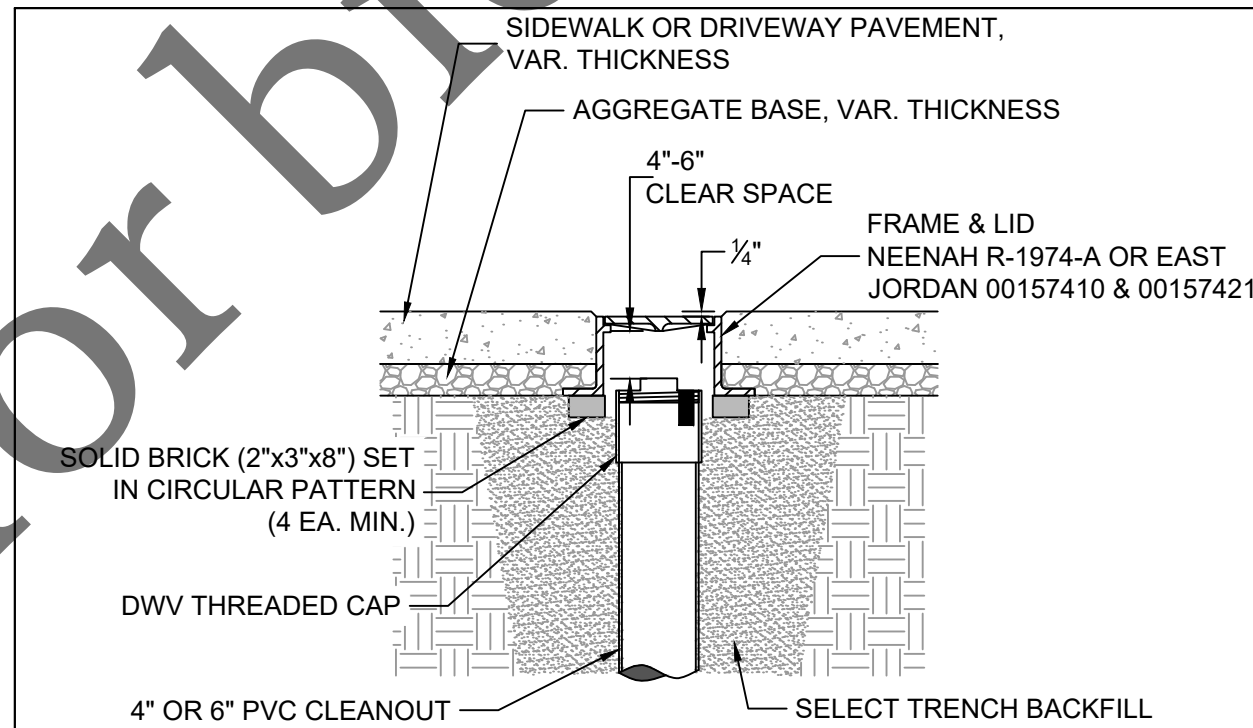
FLEXIBLE PIPE BEDDING DETAIL

- NOTES:
1. CORE DRILL HOLE IN MAIN OR MODIFY EX. VCP FITTING FOR SADDLE DIMENSIONS.
 2. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.

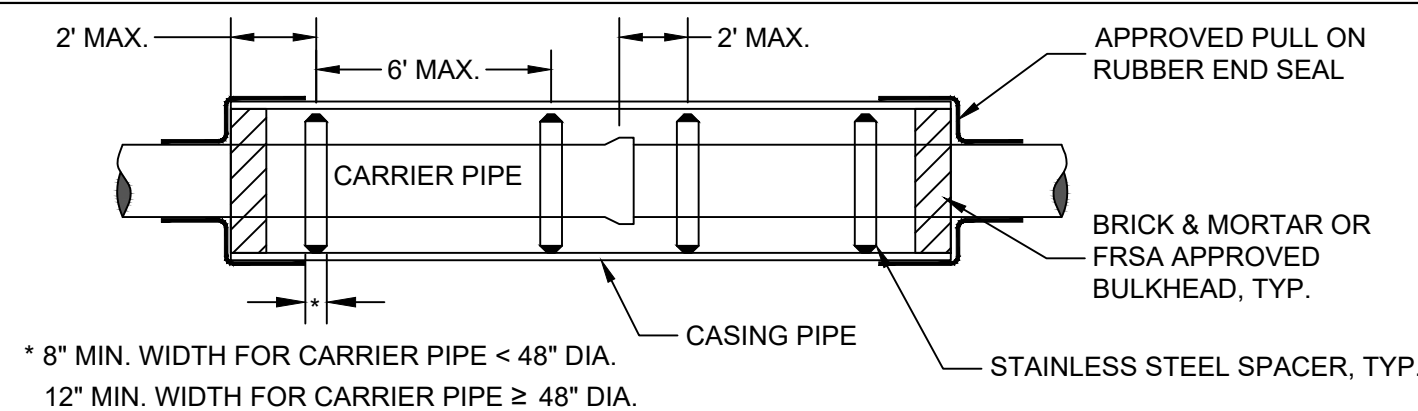


FLEXIBLE SADDLE CONNECTION DETAIL

- NOTES:
1. SERVICE CLEANOUT CASTINGS ARE REQUIRED FOR ALL CLEANOUTS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS.
 2. THE LOCATION OF THE CLEANOUT SHALL BE APPROVED BY FOUR RIVERS SANITATION AUTHORITY (FRSA).
 3. THE FRAME SHALL BE SET ON BRICKS THAT ARE PLACED IN A CIRCULAR PATTERN THE ENTIRE CIRCUMFERENCE OF THE FRAME. THE BRICKS SHALL BE SET ON COMPACTED TRENCH BACKFILL.
 4. THE FRAME SHALL BE SET TO AN ELEVATION THAT PROVIDES 4"-6" CLEAR SPACE BETWEEN THE TOP OF THE CLEANOUT CAP AND THE BOTTOM OF THE CASTING LID.
 5. THE CONTRACTOR SHALL ENSURE THAT THE CLEANOUT CAP CAN BE UNSCREWED AND REMOVED AND REPLACED WITHOUT HINDRANCE.
 6. THE FRAME SHALL BE SET 1/4" MIN. TO 3/8" MAX. BELOW FINAL PAVEMENT ELEVATION.



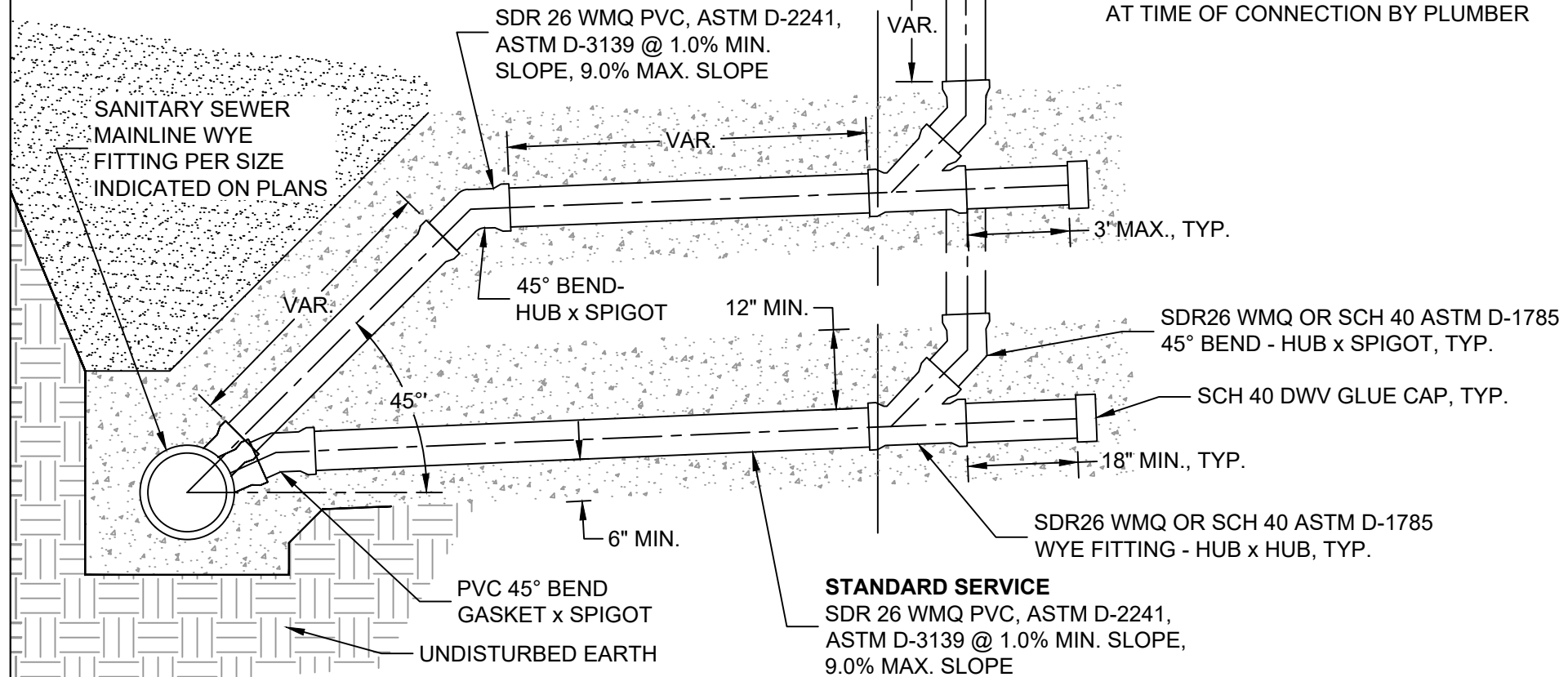
SERVICE CLEANOUT CASTING DETAIL



- NOTES:
1. CASING END SEALS & SPACERS SHALL BE AS MFD. BY CASCADE MFG., OR APPROVED EQUAL.
 2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN, OR PER MFR.'S RECOMMENDATION.
 3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFR.'S RECOMMENDATION.

CASING & SPACER DETAIL

- NOTES:
1. SANITARY SEWER MAINLINE SHALL BE INSTALLED PER 'FLEXIBLE PIPE BEDDING DETAIL' OR 'RIGID PIPE BEDDING DETAIL'.
 2. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER 'FLEXIBLE PIPE BEDDING DETAIL', 6" BELOW AND 12" ABOVE PIPING.
 3. ALL SCH 40 PVC PIPE & FITTINGS SHALL BE PER ASTM D-1785/D-2665.
 4. ALL SDR26 WMQ PVC PIPE & FITTINGS SHALL BE PER ASTM D-2241/D-3139.
 5. ALL DWV FITTINGS SHALL BE CLEANED, PRIMED, & GLUED.
 6. MIN. DEPTH OF COVER SHALL BE 5'.
 7. CLEANOUT CAP SHALL BE SCH 40 DWV GLUED CAP FOR NEW DEVELOPMENT OR SCH 40 GLUED SCREW CAP FOR EX. DEVELOPMENT.
 8. CLEANOUT RISERS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS SHALL WILL REQUIRE A CLEANOUT FRAME & LID PER THE FRSA 'SERVICE CLEANOUT CASTING DETAIL'.



STANDARD SERVICE & ALTERNATE SERVICE DETAIL



FOUR RIVERS SANITATION AUTHORITY (FRSA) STANDARD DETAILS
(NOT TO SCALE)
3501 KISHWAUKEE ST.
ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

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