

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ALTA FIBER – AERIAL
 221 E 4TH STREET (BUILDING 121-900)
 CINCINNATI, OH 45202
 513-566-5120 (JOHN STRAUSS)
 JOHN.STRAUSS@ALTA FIBER.COM

ALTA FIBER – UNDERGROUND STRUCTURES
 221 E 4TH STREET (BUILDING 121-900)
 CINCINNATI, OH 45202
 513-565-7187 (BRECK COWAN)
 BRECK.COWAN@ALTA FIBER.COM

CLERMONT COUNTY WATER RESOURCES - WASTEWATER
 4400 HASKELL LANE
 BATAVIA, OH 45103
 513-479-4031 (TIM CHERRY)
 TCHERRY@CLERMONTCOUNTYOHIO.GOV

CITY OF MILFORD - WATER
 513-831-6819 (ZACH ROBB)
 ZROBB@MILFORDOHIO.ORG

CITY OF MILFORD - WASTEWATER
 513-831-6982 (DAVID WALKER)
 DWALKER@MILFORDOHIO.ORG

DUKE ENERGY - ELECTRIC (DISTRIBUTION)
 2010 DANA AVE
 CINCINNATI, OH 45207
 513-508-9609 (SHANE ERHART)
 SHANE.ERHART@DUKE-ENERGY.COM

DUKE ENERGY - GAS
 513-906-0128 (BRIAN HOLLMANN)
 BRIAN.HOLLMANN@DUKE-ENERGY.COM

CHARTER COMMUNICATIONS
 10920 KENWOOD ROAD
 CINCINNATI, OH 45242
 513-386-5499 (KENT RIEGER)
 KENT.RIEGER@CHARTER.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. RW.3.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: VRS - ODOT CORS NETWORK,
 DIFFERENTIAL LEVELING
 MONUMENT TYPE: IRON PINS SET

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
 GEOID: 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83
 ELLIPSOID: GRS 80
 MAP PROJECTION: LAMBERT CONFORMAL CONIC 2
 STANDARD PARALLEL
 COORDINATE SYSTEM: OHIO STATE PLANE (SOUTH ZONE 3402)
 COMBINED SCALE FACTOR: 1.0000000000
 ORIGIN OF COORDINATE
 SYSTEM: OHIO STATE PLANE, SOUTH ZONE
 NORTHING = 0.000
 EASTING = 0.000

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

CLEARING AND GRUBBING, AS PER PLAN

DUE TO ENVIRONMENTAL REGULATIONS, TREES WITHIN THE PROPOSED CONSTRUCTION LIMITS WILL BE CUT PRIOR TO THE START OF THE PROJECT THROUGH A SEPARATE TREE CLEARING CONTRACT THROUGH ODOT. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL STUMPS, AND ANY REMAINING FELLED TREES AND BRUSH. A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN. ALL PROVISIONS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN.

ITEM 202 - REMOVAL MISC.: POST WITH ELECTRIC OUTLET

THIS ITEM CONSISTS OF REMOVING AN EXISTING POST WITH A POST MOUNTED ELECTRIC OUTLET AT THE LOCATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL REMOVE ALL PORTIONS OF THE POST, ELECTRIC OUTLET, AND WIRING WITHIN THE CHANNEL EASEMENT INCLUDING BUT NOT LIMITED TO CONDUIT, WIRING, AND ALL PORTIONS OF THE POST THAT ARE BELOW GRADE INCLUDING A FOUNDATION IF PRESENT.

COORDINATE WITH THE PROPERTY OWNER FOR DISCONNECTION OF POWER TO THE OUTLET.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 202 - REMOVAL, MISC.: POST WITH ELECTRIC OUTLET, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, DISPOSAL, AND OTHER INCIDENTALS NECESSARY TO REMOVE THE EXISTING POST WITH ELECTRIC OUTLET.

COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

COFFERDAMS AND EXCAVATION BRACING INSTALLED FOR THE PROJECT ARE FOR DEWATERING THE WORK AREA AND ARE CONSIDERED FILL. COFFERDAMS AND EXCAVATION BRACING DESIGN, CONSTRUCTION, AND REIMBURSEMENT FOR DAMAGE IS BASED ON CMS 503. THE CONTRACTOR MUST COMPLY WITH ANY IN-STREAM RESTRICTION IN THE SPECIAL PROVISIONS – WATERWAY PERMIT. ADDING FILL TO THE STREAM TO DEWATER THE WORK AREA REQUIRES A TEMPORARY ACCESS FILL (TAF) SUBMISSION PER THE SPECIAL PROVISIONS.

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

ITEM 607 - GATE, TYPE CLT, AS PER PLAN, 12' GATE

THIS ITEM OF WORK SHALL BE COMPLETED IN ACCORDANCE WITH C&MS 607 AND SCD F-1.1 WITH THE EXCEPTION OF THE END POST SPACING WHICH SHALL BE 12'-0". ONE SWINGING 12' GATE WITH A PLUNGER BAR POSITIONED 12'-0" FROM THE END POST SHALL BE USED.

THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AND THE ENGINEER A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO THE REMOVAL OF THE EXISTING FENCE AND INSTALLATION OF GATE. IT IS THE CONTRACTORS RESPONSIBILITY TO CLOSE AND LOCK THE GATE AT ALL TIMES THAT ACTIVE CONSTRUCTION IS NOT OCCURRING WITHIN THE CHANNEL EASEMENT.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 609 - GATE, TYPE CLT, AS PER PLAN, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THIS ITEM OF WORK IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 607 - GATE, TYPE CLT, AS PER PLAN, 2 - 12' GATES

THIS ITEM OF WORK SHALL BE COMPLETED IN ACCORDANCE WITH C&MS 607 AND SCD F-1.1 WITH THE EXCEPTION OF THE END POST SPACING WHICH SHALL BE 24'-0". TWO SWINGING 12' GATES WITH A PLUNGER BAR POSITIONED 12'-0" FROM THE END POSTS SHALL BE USED AND INSTALLED AT APPROX. U.S. 50 STA. 119+85, AND LOCATED INSIDE THE CHANNEL EASEMENT.

IF PARCEL 3 (MILFORD TOWING) HAS RELOCATED THEIR ENCROACHING FENCE ONTO THEIR PROPERTY, THE CONTRACTOR SHALL REMOVE FENCING AS REQUIRED TO INSTALL THE GATES FOR CONSTRUCTION AND FUTURE MAINTENANCE ACCESS TO THE CHANNEL EASEMENT ON THE NORTH SIDE OF THE CHANNEL. REMOVAL OF THE EXISTING FENCE IS CONSIDERED INCIDENTAL TO THIS ITEM. CONNECT THE GATES TO THE EXISTING FENCE. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AND THE ENGINEER A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO THE REMOVAL OF THE EXISTING FENCE AND INSTALLATION OF GATE. THE ENGINEER SHALL DETERMINE THE LOCATION OF THE GATE BEFORE ANY WORK RELATED TO THE EXISTING FENCE COMMENCES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLOSE AND LOCK THE GATE AT ALL TIMES THAT CONSTRUCTION ACTIVITIES ARE NOT OCCURRING WITHIN THE CHANNEL EASEMENT. THE GATE SHALL REMAIN FOR PERMANENT ODOT ACCESS TO THE CHANNEL EASEMENT.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 609 - GATE, TYPE CLT, AS PER PLAN, 2 - 12' GATES, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THIS ITEM OF WORK IN A SATISFACTORY AND WORKMANLIKE MANNER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 607 - GATE, TYPE CLT, AS PER PLAN, 2 - 12' GATES 1 EACH

ITEM 607 - FENCE, MISC.: GATE REMOVAL AND REINSTALLATION

THIS ITEM CONSISTS OF THE REMOVAL, STORAGE, AND REINSTALLATION OF THE EXISTING METAL GATE FOR THE DRIVEWAY ON THE NORTH SIDE OF THE CHANNEL ON THE EAST SIDE OF US-50 (PARCEL 6) THAT WILL BE IMPACTED DURING CONSTRUCTION ACTIVITIES.

THE GATE SHALL BE STORED IN A LOCATION AND MANNER TO PREVENT DAMAGE TO THE GATE. UPON COMPLETION OF THE WORK WHERE THE GATE WILL BE IMPACTED THE GATE SHALL BE INSTALLED IN ITS ORIGINAL LOCATION AND CONDITION TO THE SATISFACTION OF THE ENGINEER. REPLACE ANY PORTIONS OF THE FENCE THAT ARE DAMAGED DURING REMOVAL, STORAGE, AND INSTALLATION TO RESTORE THE FENCE TO ITS ORIGINAL CONDITION.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 607 - FENCE, MISC.: GATE REMOVAL AND REINSTALLATION, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, AND OTHER INCIDENTALS NECESSARY TO REMOVE, STORE, AND REINSTALL THE EXISTING GATE.

ITEM 630 - SIGNING, MISC.: REMOVAL AND RE-ERECTION OF MIAMI TOWNSHIP SIGN

THIS ITEM CONSISTS OF THE REMOVAL, STORAGE, AND REINSTALLATION OF THE EXISTING MIAMI TOWNSHIP SIGN AND WOOD POST THAT WILL BE IMPACTED DURING CONSTRUCTION ACTIVITIES.

THE SIGN AND POST SHALL BE STORED IN A LOCATION AND MANNER TO PREVENT DAMAGE TO THE SIGN AND POST. UPON COMPLETION OF THE WORK, THE SIGN SHALL BE INSTALLED IN ITS ORIGINAL LOCATION AND CONDITION TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 630 - SIGN, MISC.: REMOVAL AND RE-ERECTION OF MIAMI TOWNSHIP SIGN, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, AND OTHER INCIDENTALS NECESSARY TO REMOVE, STORE, AND REINSTALL THE EXISTING SIGN AND WOOD POST.

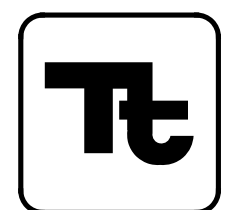
**ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
 ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
 ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION
 ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY AND ARE PROVIDED FOR SEALING THE DOWNSTREAM BOX BEAM AND DECK FASCIA ON THE US-50 PRESTRESSED CONCRETE BOX BEAM BRIDGE AS DIRECTED BY THE ENGINEER. COMPLETE THE SEALING AFTER THE CRACK AND PATCHING REPAIRS, AND AFTER REMOVAL OF THE EXISTING CONCRETE COATING.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) 8 SY
 ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES 8 SY

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY AND ARE PROVIDED FOR REPAIRING THE DOWNSTREAM CONCRETE BOX BEAM AND DECK FASCIA ON THE US-50 PRESTRESSED CONCRETE BOX BEAM BRIDGE AS DIRECTED BY THE ENGINEER. ESTIMATED CONCRETE REPAIR BY EPOXY INJECTION QUANTITY BASED ON LONGITUDINAL CRACK ALONG THE DECK AND PRESTRESSED BOX BEAM INTERFACE ON THE DOWNSTREAM FASCIA. ESTIMATED PATCHING QUANTITY BASED ON PATCH 2" WIDE X 24" LONG.

ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION 35 SF
 ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR 4 SF





SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL	196 CU. YD.
659, SEEDING AND MULCHING	1767 SQ. YD.
659, REPAIR SEEDING AND MULCHING	88 SQ. YD.
659, INTER-SEEDING	88 SQ. YD.
659, COMMERCIAL FERTILIZER	0.26 TON
659, LIME	0.37 ACRES
659, WATER	10 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT WITH THE EXCEPTION OF THE PROPOSED STREAM BOTTOM AND BANKS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN, STREAMBANKS SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL	173 CU. YD.
659, SEEDING AND MULCHING, AS PER PLAN, STREAMBANKS	1563 SQ. YD.
659, REPAIR SEEDING AND MULCHING, AS PER PLAN, STREAMBANKS	78 SQ. YD.
659, INTERSEEDING, AS PER PLAN, STREAMBANKS	78 SQ. YD.
659, COMMERCIAL FERTILIZER	0.23 TON
659, LIME	0.32 ACRE
659, WATER	9 M. GAL.
671, EROSION CONTROL MAT, TYPE C	1563 SQ. YD.

SEEDING AND MULCHING, AS PER PLAN, STREAMBANKS AND TYPE C EROSION CONTROL MAT SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL ON THE STREAMBANKS, INCLUDING THE PROPOSED CHANNEL BENCH WITH THE EXCEPTION OF AREAS WITH ROCK CHANNEL PROTECTION OR RIP RAP, AND THE CHANNEL BOTTOM. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

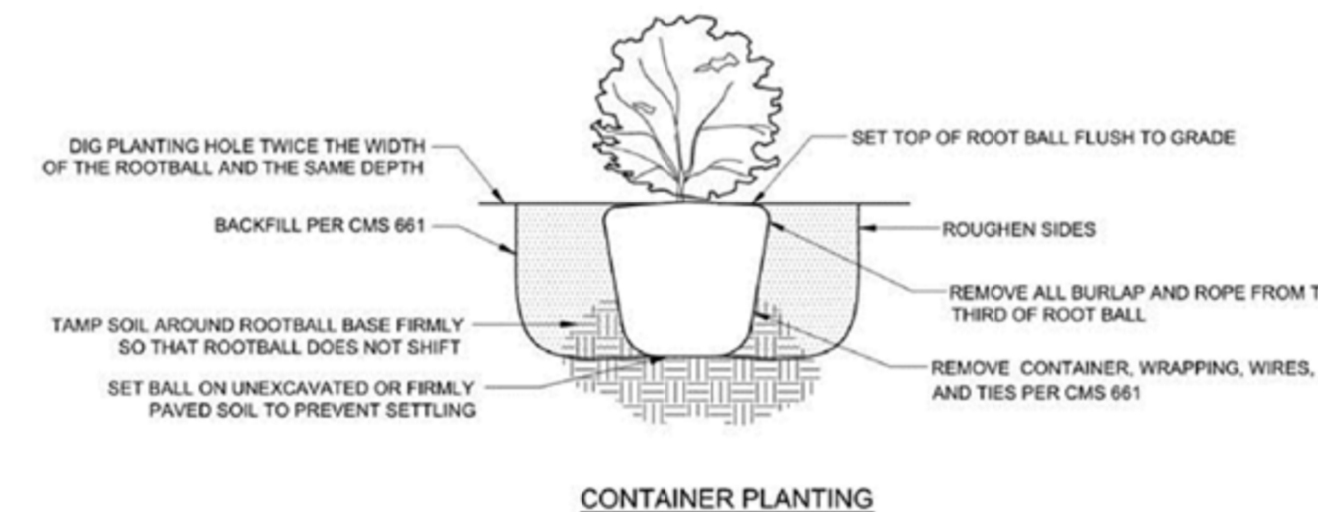
SEQUENCE OF CONSTRUCTION FOR ALL AREAS OF EXPOSED SOIL WITHIN THE STREAMBANKS SHALL CONSIST OF THE FOLLOWING:

1. PREPARE THE AREA USING TOPSOIL, COMMERCIAL FERTILIZER AND LIME PER CMS 659.
2. APPLY SLOPE STABILIZATION SEED MIX FROM THE TABLE ON THIS SHEET.
3. APPLY STRAW MULCH AT A RATE OF 2 TONS/ACRE.
4. INSTALL ITEM 671 - EROSION CONTROL MAT, TYPE C PER THE CHANNEL TYPICAL SECTION DETAIL ON THIS SHEET.

COMMON NAME	SPECIES NAME	LB/ACRE
COMMON OAT	AVENA SATIVA	41
ANNUAL RYE	SECALE CEREALE	41
STREAMBANK WILD RYE	ELYMUS RIPARIUS	5
VIRGINIA WILD RYE	ELYMUS VIRGINICUS	5
SWITCHGRASS - SHELTER	PANICUM VIRGATUM	5
LITTLE BLUESTEM	SCHIZACHRYUM SCOPARIUM	3
INDIAN GRASS	SORGHASTRUM NUTANS	2.5
OX-EYE SUNFLOWER	HELIOPSIS HELIANTHOIDES	1.5
BROWN-EYED SUSAN	RUDBECKIA TRILOBA	1.5
BLUE VERVAIN	VERBENA HASTATA	1.3
COMMON MILKWEED	ASCLEPIAS SYRIACA	1
PENNSYLVANIA SMARTWEED	POLYGONUM PENNSYLVANICUM	1
TALL IRONWEED	VERNONIA GIGANTEA	1
PARTRIDGE PEA	CHAMAECRISTA FISTULOSUM	0.9
BROWN FOX SEDGE	CAREX VULPINOIDEA	0.5
SHOWY TICK-TREFOIL	DESMODIUM CANADENSE	0.5
WILD BERGAMOT	MONARDA FISTULOSA	0.5
AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	0.3
TOTAL		112.5

ITEM 661 - TREE SEEDLING, AS PER PLAN, 1-GAL

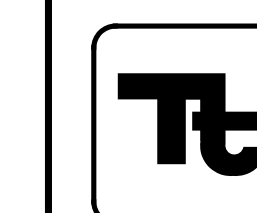
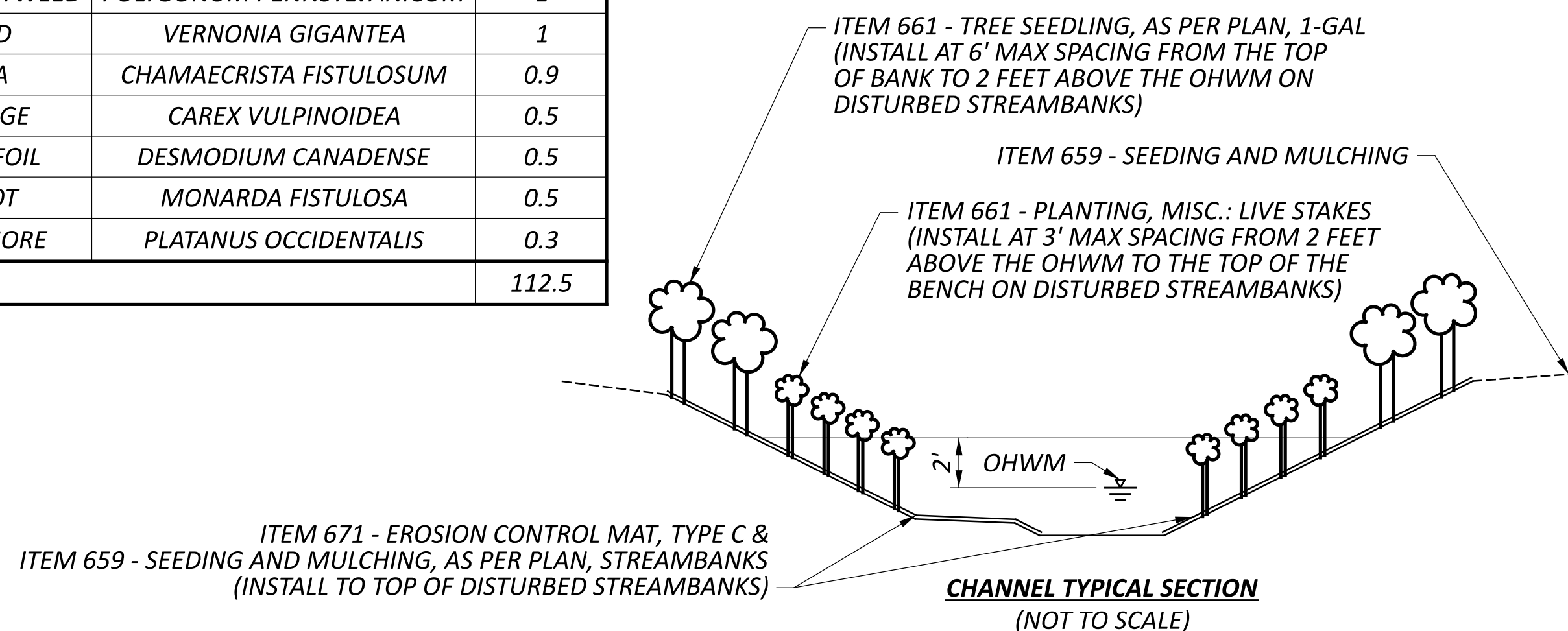
INSTALL CONTAINER TREES ON STREAMBANKS (EXCLUDING AREAS WITH ROCK CHANNEL PROTECTION) FROM THE TOP OF BANK TO 2 FEET ABOVE THE ORDINARY HIGH WATER MARK (OHWM) ELEVATION. NO CONTAINER TREES SHALL BE PLANTED FROM STA. 59+00 TO STA. 60+83. INSTALL CONTAINER TREES AFTER MARCH 15 AND BEFORE JUNE 1, OR AFTER SEPTEMBER 15 AND BEFORE NOVEMBER 30. DO NOT INSTALL IN FROZEN OR SATURATED SOIL CONDITIONS. ENSURE A SUFFICIENT WATER SUPPLY IS AVAILABLE TO SATISFY THE REQUIREMENTS OF THE PLANT MATERIALS AND ITEM 662, LANDSCAPING WATER. CONTAINER TREES SHALL BE INSTALLED IMMEDIATELY UPON DELIVERY AND SHALL BE KEPT MOIST. PLANTS SHALL BE WELL DEVELOPED, HEALTHY, FREE FROM INSECTS AND DISEASES, AND POSSESS A NORMAL UNBROKEN ROOT SYSTEM, AND BE APPROVED BY THE ENGINEER PRIOR TO PLANTING. CONTAINER TREES SHALL BE TRANSPLANTED TO THE SAME DEPTH AS ORIGINALLY GROWN. INSTALL PLANTS BY DIGGING OR DRILLING A HOLE TWICE THE DIAMETER OF THE CONTAINER, GENTLY DE-POTTING THE PLANT, PLANTING AND BACKFILLING THE HOLE WITH SOIL. BACKFILL THE SOIL INTO THE HOLE TO THE SOIL LEVEL OF THE CONTAINER TO AVOID OVER-COMPRESSING THE SOIL, AS PER THE FIGURE BELOW. CONTAINER TREES MUST BE PLANTED IN A VERTICAL POSITION. THE ROOT COLLARS SHOULD BE PLANTED SLIGHTLY ABOVE GROUND OR FLUSH WITH THE GROUND.



COMMON NAME	SPECIES NAME	TOTAL
AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	20
SILVER MAPLE	ACER SACCHARINUM	20
BLACK WILLOW	SALIX NIGRA	20
EASTERN COTTONWOOD	POPULUS DELTOIDES	20

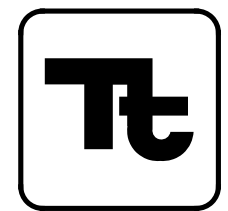
THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

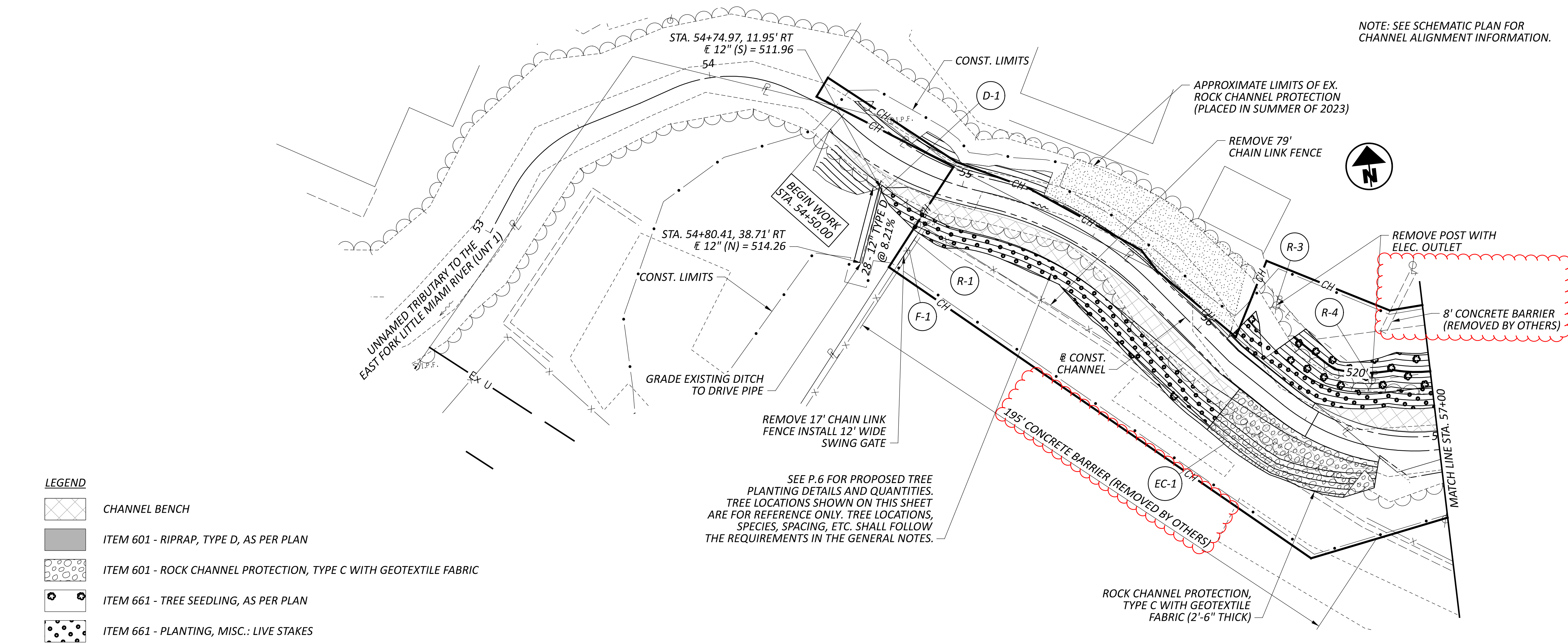
- ITEM 661 - TREE SEEDLING, AS PER PLAN, 1-GAL, AMERICAN SYCAMORE 20 EACH
- ITEM 661 - TREE SEEDLING, AS PER PLAN, 1-GAL, SILVER MAPLE 20 EACH
- ITEM 661 - TREE SEEDLING, AS PER PLAN, 1-GAL, BLACK WILLOW 20 EACH
- ITEM 661 - TREE SEEDLING, AS PER PLAN, 1-GAL, EASTERN COTTONWOOD 20 EACH



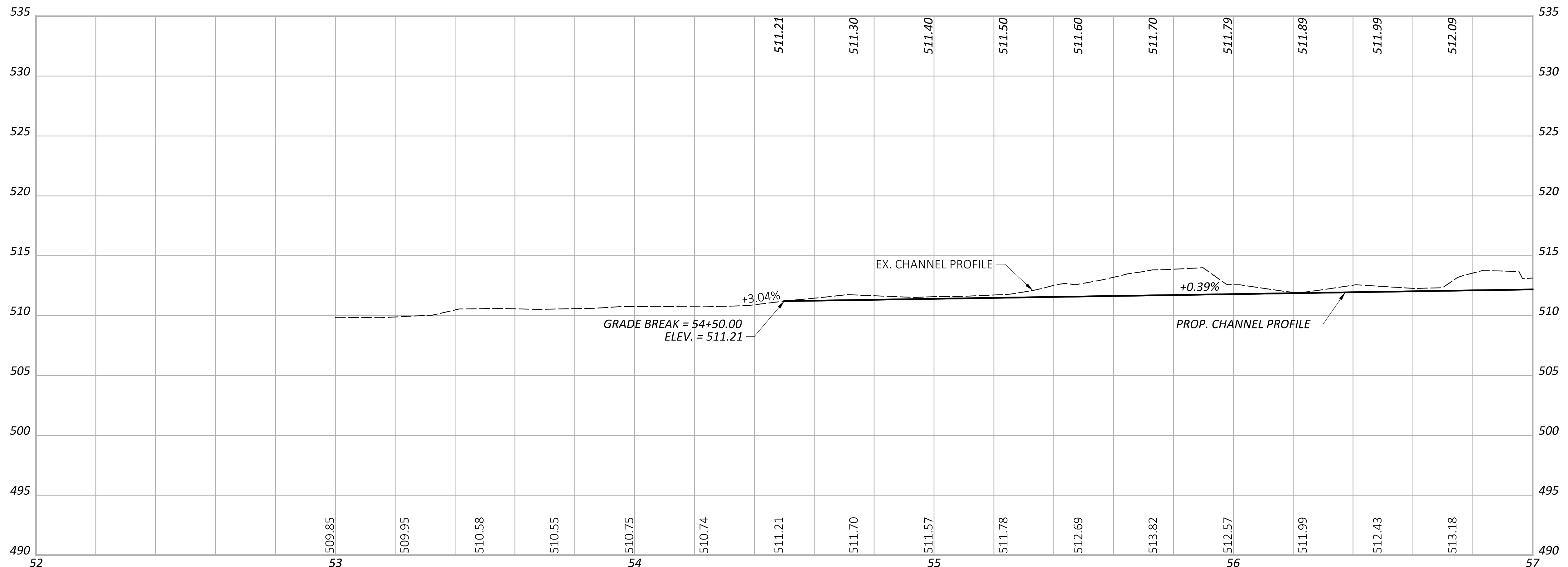
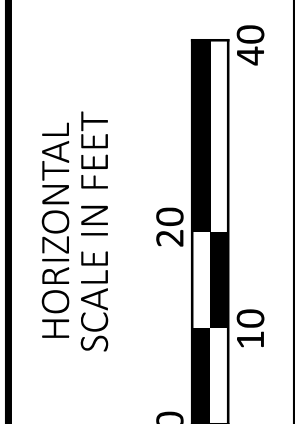
SHEET NO.	REF NO.	STATION TO STATION	SIDE	202	202	202	203	203	601	607	607	611	630	630	630	630
				CONCRETE BARRIER REMOVED FT	FENCE REMOVED FT	REMOVAL MISC.: POST WITH ELECTRIC OUTLET EACH	EXCAVATION CY	EMBANKMENT CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	GATE, TYPE CLT, AS PER PLAN, 12' GATE EACH	FENCE, MISC.: GATE REMOVAL AND REINSTALLATION EACH	12" CONDUIT, TYPE D FT	GROUND MOUNTED SUPPORT, NO. 3 POST FT	REMOVAL OF GROUND MOUNTED SIGN AND REECTION EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	SIGNING, MISC.: REMOVAL AND RE- ERECTION OF MIAMI TOWNSHIP SIGN EACH
CHANNEL																
19		55+00.00 TO 55+50.00					84	4								
20		56+00.00 TO 56+50.00					246	2								
21		57+00.00 TO 57+50.00					377	2								
22		58+00.00 TO 58+50.00					384	14								
23		59+00.00 TO 59+50.00					591									
24		60+00.00 TO 60+50.00					326	1								
25		60+82.50 TO 61+00.00					100									
15	R-1	54+89.33 TO 55+81.82	RT		96											
15	R-3	56+13.66	LT			1										
15	R-4	56+68.88	LT			1										
15	D-1	54+74.97 TO 54+80.41	RT								28					
15	F-1	54+89.33 TO 54+91.17								1						
15	EC-1	56+25.00 TO 56+78.97	RT					99								
16	EC-2	58+20.00 TO 59+03.89	RT					170								
16	F-2	60+29.20 TO 60+29.74	LT							1						
16	R-8	118+42.06 TO 120+12.95	RT		165											
16	S-1	118+55.00	RT									12 / 12	1	2		
16	S-2	118+63.00	RT									14	1	1		
16	S-3	119+07.00	RT												1	
16	S-4	119+92.00	RT									13	2	1		
U.S. 50																
TOTALS CARRIED TO GENERAL SUMMARY					261	2	2108	23	269	1	1	28	51	4	4	1

ROADWAY SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 GCB
 REVIEWER
 DTC 11/05/25
 PROJECT ID
 119024
 SHEET TOTAL
 P.13 31

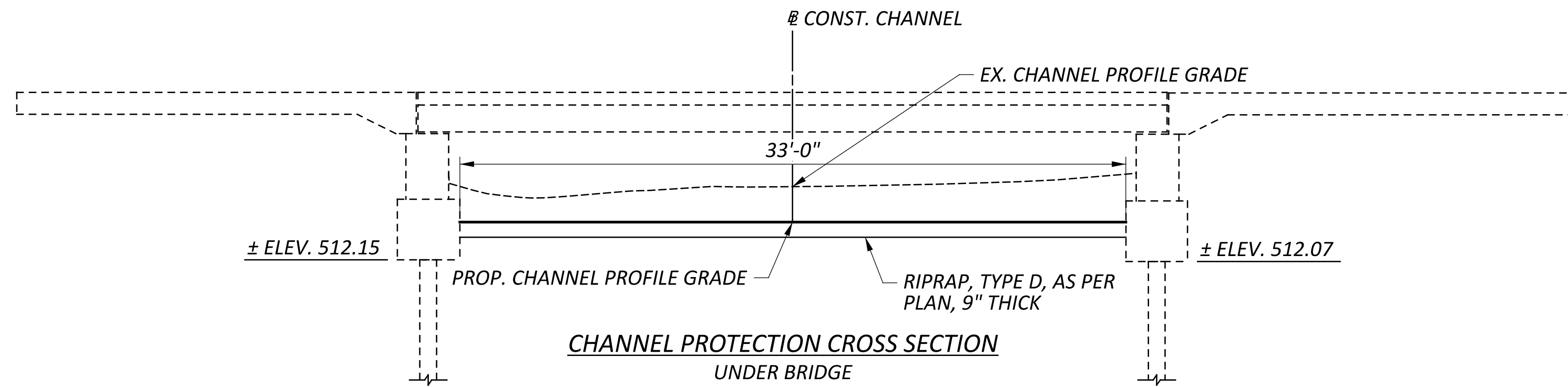


NOTE: SEE SCHEMATIC PLAN FOR CHANNEL ALIGNMENT INFORMATION.

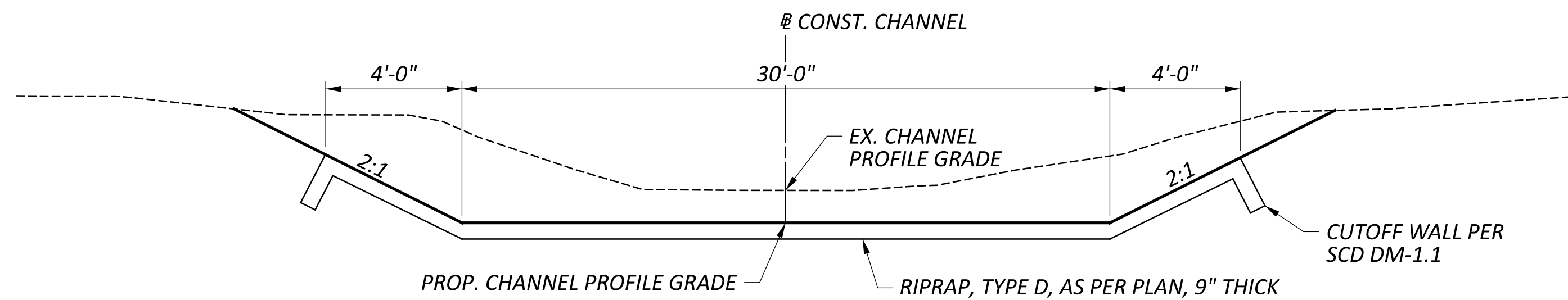


PLAN AND PROFILE - CHANNEL
 STA. 53+00.00 TO STA. 57+00.00

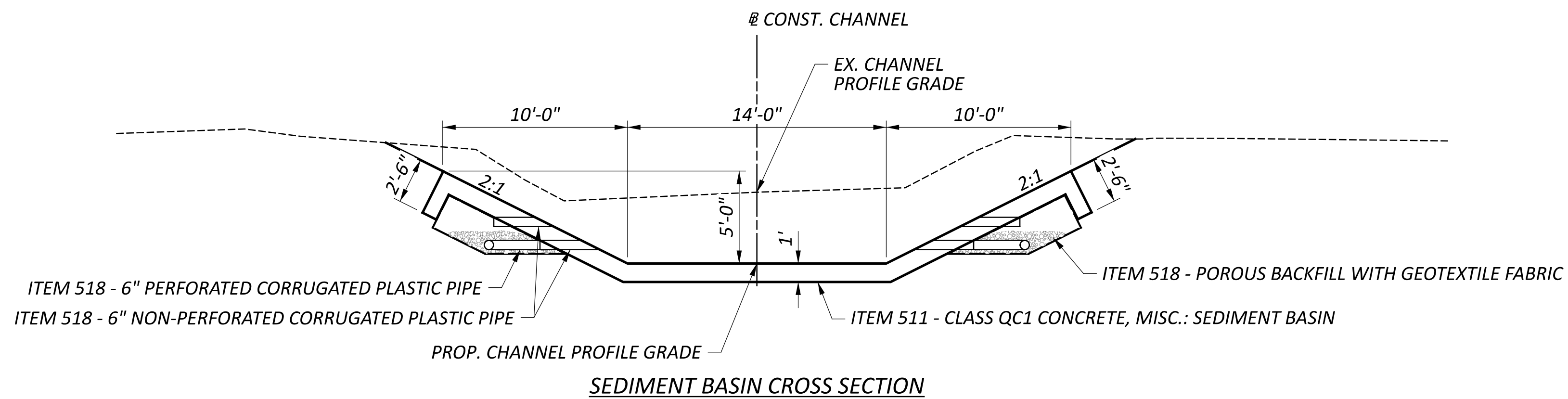
DESIGN AGENCY	
DESIGNER	GCB
REVIEWER	DTC 11/05/25
PROJECT ID	119024
SHEET	TOTAL
P.15	31



CHANNEL PROTECTION CROSS SECTION UNDER BRIDGE



CHANNEL PROTECTION CROSS SECTION UPSTREAM AND DOWNSTREAM OF BRIDGE



SEDIMENT BASIN CROSS SECTION

ITEM 601 - RIPRAP, TYPE D, AS PER PLAN, 9" THICK

THIS ITEM SHALL CONSIST OF CONSTRUCTING A 9" REINFORCED CONCRETE SLAB IN THE PROPOSED CHANNEL AT THE LOCATIONS DETAILED ON THIS SHEET IN ACCORDANCE WITH CMS 601 AND SCD DM-1.1, EXCEPT THAT THE REINFORCING SHALL BE EPOXY COATED STEEL BARS OR FABRICATED REINFORCEMENT EQUIVALENT TO #4 ROUND BARS AT 24" ON CENTER IN TWO DIRECTIONS, OR AN EQUIVALENT GALVANIZED WIRE FABRIC. OVEREXCAVATE A MINIMUM OF 6" AND PLACE ITEM 304 - AGGREGATE BASE PRIOR TO THE PLACEMENT OF REINFORCING STEEL AND CONCRETE TO OBTAIN A FIRM SUBGRADE. COMPACT THE 304 WITH PLATE COMPACTOR, HOWEVER COMPACTION TESTING IS NOT REQUIRED. ALL COSTS ASSOCIATED WITH CONSTRUCTING A FIRM SUBGRADE WILL BE CONSIDERED INCIDENTAL TO THIS ITEM.

ALL EXISTING STORM SEWER AND DITCH OUTLETS WITHIN THE VICINITY OF THE REINFORCED CONCRETE SLAB CHANNEL PROTECTION SHALL NOT BE OBSTRUCTED BY THE CONCRETE SLAB.

ALTERNATE CONSTRUCTION OF THE SLAB USING A WET-MIX PNEUMATICALLY PLACED SHOTCRETE IN ACCORDANCE WITH CMS 520 IS ACCEPTABLE PROVIDED THAT THE FINISH OF THE SLAB IS SMOOTH AND PARALLEL TO THE CHANNEL BASELINE.

CONSTRUCTION OF THE REINFORCED CONCRETE SLAB SHALL BE COMPLETED IN THE DRY.

ITEM 511 - CLASS QC1 CONCRETE, MISC.: SEDIMENT BASIN

CONSTRUCT THE SEDIMENT BASIN ACCORDING TO CMS 511 AND THE PLANS, WITH CLASS QC1 CONCRETE. OVEREXCAVATE A MINIMUM OF 6" AND PLACE ITEM 304 - AGGREGATE BASE PRIOR TO THE PLACEMENT OF REINFORCING STEEL AND CONCRETE TO OBTAIN A FIRM SUBGRADE. COMPACT THE 304 WITH PLATE COMPACTOR, HOWEVER COMPACTION TESTING IS NOT REQUIRED. ALL COSTS ASSOCIATED WITH CONSTRUCTING A FIRM SUBGRADE WILL BE CONSIDERED INCIDENTAL TO THIS ITEM. CONSTRUCT THE BASIN IN THE DRY. FURNISH AND PLACE EPOXY COATED STEEL REINFORCEMENT, OR AN EQUIVALENT GALVANIZED WIRE FABRIC ACCORDING TO CMS 509 AND THE PLAN. PLACE NON-PERFORATED PLASTIC PIPE FOR WEEP HOLES AS SHOWN IN THE PLAN. CURE THE CONCRETE UTILIZING METHOD A OR BY FLOODING WITH WATER, OR A COMBINATION OF THE TWO METHODS. PLACE BENT STAINLESS STEEL HARDWARE CLOTH IN EACH WEEP HOLE OUTLET AS AN ANIMAL GUARD.

ALL WORK NOTED ABOVE IS INCLUDED WITH THE BID UNIT PRICE PER CUBIC YARD FOR ITEM 511 - CLASS QC1 CONCRETE, MISC.: SEDIMENT BASIN, EXCEPT INCLUDE THE COST OF WATER CONTROL IN ITEM 503 - COFFERDAMS AND EXCAVATION BRACING.

ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN

FURNISH POROUS BACKFILL PER C&MS 518.03 OR 304 AGGREGATE IN ACCORDANCE WITH C&MS 703.17.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THIS ITEM OF WORK IN A SATISFACTORY AND WORKMANLIKE MANNER.

SHEET NO.	STATION TO STATION		SIDE	503	511	518	518	518	601	SPECIAL
				COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	CLASS QC1 CONCRETE, MISC.: SEDIMENT BASIN	POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN	6" PERFORATED CORRUGATED PLASTIC PIPE	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	RIPRAP, TYPE D, AS PER PLAN, 9" THICK	CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION
CHANNEL										
27	59+04.00	TO	59+96.00						400	
27	59+96.00	TO	60+70.50	LUMP	84	72	215	60		LUMP
TOTALS CARRIED TO GENERAL SUMMARY				LS	84	72	215	60	400	LS

