



CONTRACT DRAWINGS FOR THE CONSTRUCTION OF COLD BROOK SEDIMENT REMOVAL AND CHANNEL WALL REPAIRS GENERAL SEWER SERVICES

CITY OF SYRACUSE

**401 CITY HALL
233 EAST WASHINGTON STREET
SYRACUSE NY, 13202**

C&S PROJECT: 119431006

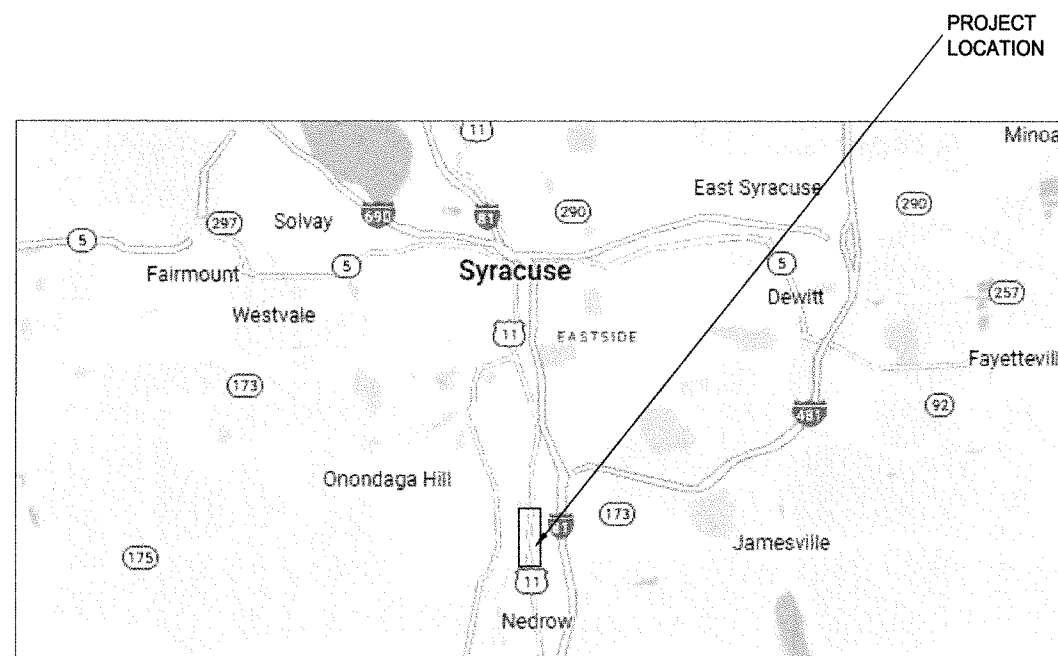
**MAY 2024
BID DOCUMENTS**



TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THE PLANS AND SPECIFICATIONS FOR THIS PROJECT ARE IN COMPLIANCE WITH THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE AND THE BUILDING CODE OF NEW YORK STATE

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

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LOCATION MAP



May 15, 2024, 3:28pm
 E:\Projects\19 - City of Syracuse\19431006 - Phase 1 Cold Brook Sediment Removal\Design\CAD\DWG\G-001.TITLE SHEET.dwg

#17

G-001

AOBE	AS ORDERED BY ENGINEER	CIRC	CIRCULAR	FIN GR, FG	FINISHED GRADE	MAX	MAXIMUM	RF	ROOF	SYM	SYMMETRICAL
ALT	ALTERNATE	COC	CORNER OF CURB	FM	FORCE MAIN	MECH	MECHANICAL	ROP	ROCK OUTLET PROTECTION	SUP	SUPPORT
ALUM	ALUMINUM	DEG	DECIDUOUS	FT	FOOT, FEET	MH, MANH	MANHOLE	ROW	RIGHT-OF-WAY	STRUCT	STRUCTURE, STRUCTURAL
APPROX	APPROXIMATELY	DIP	DUCTILE IRON PIPE	FTG	FITTING, FOOTING	MIN	MINIMUM	RCP	REINFORCED CONCRETE PIPE	TEMP	TEMPERATURE, TEMPORARY
ASPH	ASPHALT	DIA/ DBH	DIAMETER/ DIAMETER AT BREAST HEIGHT	FW	FINISHED WATER	MTD	MOUNTED	RT	RIGHT	THK	THICK
AVG	AVERAGE	DISCH	DISCHARGE	GAL	GALLON	N	NOT IN CONTRACT	RW	RAW WATER	TG	TOP OF GRADE
AW	APPROXIMATE WATER	DMH	DRAINAGE MANHOLE	GC	GRANITE CURB	NO	NOT TO SCALE	S	SOUTH	TM	TAX MAP
BLDG	BUILDING	DP	DEEP	GR	GRAVEL	NG	NATURAL GAS	SA, SANI	SANITARY	T.O.P.	TOP OF PAVEMENT
BM	BENCHMARK	DOT	DEPARTMENT OF TRANSPORTATION	GRAV	GRAVITY	NTS	NOT TO SCALE	SAN	SANITARY SEWER	TOW, TW	TOP OF WALL
BET	BETWEEN	DTL, DET	DETAIL	GPM	GALLONS PER MINUTE	OC	ON CENTER	SBM	STREAM BED MATERIAL	TPA	TEMPORARY PUMP AROUND
BKF	BANKFULL	D	DRAIN	GRD	GRADE	NYS	NEW YORK STATE	SD, ST DR	STORM DRAIN	TPF	TREE PROTECTION FENCE
BOT	BOTTOM	DWG	DRAWING	HW	HEAD WALL	OC	ON CENTER	SCH	SCHEDULE	TYP	TYPICAL
CB, CBSN	CATCH BASIN	DM	DIMENSION	HDPE	HIGH DENSITY POLYETHYLENE	OHE, OE	OVERHEAD ELECTRICAL	SEC, SECT	SECTION	UD	UNDER DRAIN
CC	CONCRETE CURB	EA	EACH	HG	HIGH	OPP	OPPOSITE	SF	SILT FENCE	UE	UNDERGROUND ELECTRIC
CHWS	CHILLED WATER SUPPLY	EL, ELEV	ELEVATION	HH	HANDHOLE	%	PERCENT	SHT	SHEET	UG	UNDERGROUND
CI	CURB INLET	ELEC	ELECTRICAL	HORIZ	HORIZONTAL	PC	POINT OF CURVATURE	SIM	SIMILAR	UP	UTILITY POLE
CIP	CAST IRON PIPE	ESC	EROSION & SEDIMENT CONTROL	HW	HOT WATER	PCC	POINT OF CHANGE IN CURVATURE	SL	SLOPE	UT	UNDERGROUND TELEPHONE
CL	CENTER LINE	EDC	EDGE OF CURB	HYD, HYDR	HYDRANT	PE	POLYETHYLENE	SP	STEP POOL	VALV	VALVE
CLR	CLEAR, CLEARANCE	EOP	EDGE OF PAVEMENT	INT	INTERSECTION	PL	PLATE, PROPERTY LINE	SPEC	SPECIFICATION	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	EP	END POINT	INV	INVERT ELEVATION	PLT	PLANT	SMP	SAMPLE	VERT	VERTICAL
CNC, CONC	CONCRETE	EQ	EQUAL	ID	INSIDE DIAMETER	PLT	PLANT	SQ	SQUARE	VTP	VITRIFIED TILE PIPE
CO	CLEAN OUT	EQUIP	EQUIPMENT	JT	JOINT	POC	POINT ON CURVE	SS, SST	STAINLESS STEEL	W&I	MEASURE BANKFUL WIDTH
CONF	CONIFEROUS	EW	END WALL	LG	LENGTH	PVC	POLYVINYL CHLORIDE PIPE	SSWR	SANITARY SEWER	W, WATR	WATER
CONN	CONNECTION	EXIST	EXISTING	LB	POUND	REF	REFERENCE	STA	STATION	W/	WITH
CONT	CONTROL	FDN	FOUNDATION	LOD	LIMITS OF DISTURBANCE	RAD	RADIUS	ST, STRM	STORM	WT	WEIGHT
CPP	CORRUGATED PLASTIC PIPE	FH	FIRE HYDRANT	LP	LIGHT POLE	REIN	REINFORCING, REINFORCEMENT	STD	STANDARD	WD	WIDE
CTR	CENTER(ED)	FIN	FINISHED	LT	LEFT	REQD	REQUIRED	STL	STEEL	YD	YARD

NOTE: THIS ABBREVIATION LIST IS GENERAL IN NATURE. NOT ALL ABBREVIATIONS MAY BE USED IN THIS SET OF CONTRACT DRAWINGS.



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COLD BROOK SEDIMENT REMOVAL AND CHANNEL WALL REPAIRS AND GENERAL SEWER SERVICES AGREEMENT WORK ORDER #5 ONONDAGA COUNTY, NY

C1 ABBREVIATIONS
SCALE: NOT TO SCALE

- GENERAL NOTES:**
- CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE AND MAINTAIN ALL PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. A STATE OF NEW YORK REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE SHALL REPLACE PROPERTY IRONS, MONUMENTS, AND OTHER PERMANENT POINTS OF REFERENCE DESTROYED BY THE CONTRACTOR.
 - CONTRACTOR SHALL ABIDE BY ALL APPLICABLE OSHA REGULATIONS.
 - CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK AT LEAST 72 HOURS PRIOR TO THE START OF WORK. CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY COMPANIES.
 - IN THE EVENT THAT THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES, THEY SHALL IMMEDIATELY NOTIFY THE OWNER, OWNER'S REPRESENTATIVE, AND THE AFFECTED UTILITIES REPRESENTATIVE OF SUCH DAMAGE. ANY DAMAGE SHALL PROMPTLY BE REPAIRED TO THE OWNER'S SATISFACTION BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
 - THE CONTRACTOR MUST BE ACQUAINTED WITH THE SURFACE AND SUBSURFACE DRAINAGE CHARACTERISTICS OF THE WORK AREA SO THAT THEY WILL PROGRESS THE WORK EFFICIENTLY WITH FULL KNOWLEDGE OF THE POTENTIAL DRAINAGE PROBLEMS.
 - ALL EXISTING DRAINAGE SYSTEMS, INCLUDING DITCHES AND CULVERTS, WITHIN THE CONTRACT LIMITS SHALL BE CLEANED AND KEPT CLEAN AND FREE FLOWING FOR THE DURATION OF THE CONTRACT.
 - WHERE CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, DETAILS SHALL BE THE SAME FOR SIMILAR WORK.
 - UNLESS DETAILED, SPECIFIED OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS OR IN SPECIFIC DRAWINGS.
 - CONTRACTOR IS RESPONSIBLE FOR SECURITY AND FOR THE SECURE STORAGE OF GOODS AND MATERIALS ONSITE.
 - CONTRACTOR SHALL COORDINATE STAGING AREA WITH THE OWNER'S REPRESENTATIVE PRIOR TO START OF CONSTRUCTION.
 - THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING AND OTHER DEVICES AS MAY BE REQUIRED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO PROTECT THE SAFETY OF THE ADJACENT STRUCTURES, ROADWAY AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES ENCOUNTERED IN THIS WORK.
 - CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT AND EXISTING UTILITY PIPING PRIOR TO REMOVAL OF SUCH.
 - ELEVATIONS SHOWN ON THESE PLANS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 IN US SURVEY FEET.
 - THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH NYS DOT STANDARDS. CONTRACTOR TO PROVIDE TEMPORARY SIGNAGE AND BARRICADE INDICATING THAT THE ROAD OR SIDEWALK IS CLOSED UNDER NYS DOT ITEM NO. 819-4.02
 - ALL ROADWAYS SHALL BE KEPT CLEAN OF MUD AND DEBRIS. FILL SHALL NOT BE SPILLED ONTO ROADWAY. ALL SPILLED MATERIALS SHALL BE PROMPTLY REMOVED.
 - THE AREAS OF CONSTRUCTION SHALL BE LEFT IN STABLE CONDITION (NOT SUSCEPTIBLE TO EROSION) AT THE CLOSE OF EACH CONSTRUCTION DAY.
 - THE CONTRACTOR SHALL EITHER FOLLOW THE WINTER SHUTDOWN PROCEDURES OR PROVIDE THE ENHANCED WINTER STABILIZATION REQUIREMENTS BETWEEN NOVEMBER 15TH AND APRIL 1ST AS SET FORTH IN THE NYSDEC SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL 2016 (BLUE BOOK).
 - STORM INLETS SHALL BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION BY USE OF INLET PROTECTION OR OTHER APPROVED MEANS.
 - SOIL STOCKPILE AREAS ARE TO BE SURROUNDED WITH SILT FENCING, OR OTHER EROSION CONTROL MEASURES OR AS ORDERED BY THE OWNER'S REPRESENTATIVE.
 - WHENEVER AN AREA DISTURBED BY THE WORK OF THIS CONTRACT IS WITHIN AN AREA SHOWN ON THE DRAWINGS AS BRUSH, TREES, WOODS, OR BUSHES THE CONTRACTOR SHALL REMOVE THOSE FEATURES AS THE CONTRACTOR DEEMS NECESSARY TO CONSTRUCT THE WORK OF THIS CONTRACT AND THAT REMOVAL SHALL BE KEPT TO THE MINIMUM EXTENT PRACTICAL AND THAT REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR THIS CONTRACT. CONTRACTOR SHALL RESTORE ALL TURF AND WOODED AREAS DISTURBED WITH TOPSOIL, SEED AND MULCH AS PER THE DRAWINGS AND SPECIFICATION AREAS WITHIN 14 DAYS OF INACTIVITY.
 - WHENEVER AN AREA DISTURBED BY THE WORK OF THIS CONTRACT IS NOTED AS "REMOVE AND REPLACE AS NECESSARY" THAT TERM SHALL MEAN THE CONTRACTOR SHALL REMOVE AS MUCH OF THE EXISTING CONCRETE, ASPHALT, GRAVEL, OR OTHER EXISTING IMPROVEMENT AS THE CONTRACTOR DEEMS NECESSARY TO CONSTRUCT THE WORK OF THIS CONTRACT AND REPLACE THAT REMOVED IMPROVEMENT IN KIND AND THAT REMOVAL AND REPLACEMENT SHALL BE INCLUDED IN THE PRICE BID FOR THIS CONTRACT.

- GENERAL NOTES CONT.:**
- NYS DOT PAYMENT ITEM NUMBERS AND DESCRIPTIONS ARE SHOWN FOR SPECIFICATION REFERENCE ONLY. REFER TO LATEST NYS DOT STANDARD SPECIFICATIONS DATED JANUARY 1, 2024 PLUS UPDATES AND ADDENDA.
 - ALL MATERIAL EXCAVATED FROM THE CHANNEL SHALL BE REMOVED USING A CLOSED EXCAVATOR BUCKET OR CLAMSHELL BUCKET.
 - ALL MATERIAL EXCAVATED FROM THE CHANNEL SHALL BE DISPOSED OF AT THE CAMILLUS LANDFILL AT 8055 BELLE ISLE ROAD, SYRACUSE, NY 13209.
 - ALL COST ASSOCIATED WITH PROVIDING SITE ACCESS SHALL BE INCLUDED IN THE BASE BID PRICE.

- GENERAL REMOVAL NOTES:**
- ALL ITEMS NOTED FOR REMOVAL ARE TO BE COMPLETELY REMOVED FOR PROPER AND LEGAL DISPOSAL. ALL DISPOSALS SHALL BE AT AN APPROVED OFF-SITE FACILITY UNLESS OTHERWISE NOTED.
 - ALL MATERIAL TO BE REMOVED FROM THE JOB SITE SHALL BE DISPOSED OF BY THE CONTRACTOR AT THE CAMILLUS C&D DEBRIS LANDFILL IN ACCORDANCE WITH ALL STATE, FEDERAL, AND LOCAL LAWS. ALL COSTS ASSOCIATED WITH THE SPOIL AREA AND REMOVAL OF SPOIL MATERIAL SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT. REFER TO SOIL DISPOSAL PER NYS DOT STANDARD SPECIFICATIONS SECTION 205.
 - MAINTAIN EXISTING UTILITIES AND PROTECT THEM AGAINST DAMAGE DURING REMOVAL OPERATIONS.
 - CONDUCT REMOVAL OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES. ENSURE SAFE PASSAGE OF PEOPLE AROUND WORK AREA.
 - REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
 - LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH THE GOVERNING ENVIRONMENTAL REGULATIONS.
 - EXISTING PAVEMENT DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO PRECONSTRUCTION CONDITION. EDGES OF ALL DISTURBED PAVEMENT SHALL BE SAWCUT IN A STRAIGHT AND ORTHOGONAL PATTERN ACCEPTABLE TO ENGINEER. TREAT ALL JOINTS BETWEEN NEW AND EXISTING ASPHALT PAVEMENT WITH AN ASPHALT EMULSION.
 - DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS OR OTHER MATERIAL TO RIVERS AND ROADWAYS.

- RESTORATION NOTES:**
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RESTORATION PROJECTS, THE EXACT EXTENT OF RESTORATION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
 - THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE RESIDENT ENGINEER AND THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
 - WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.

B1 SITE GENERAL NOTES
SCALE: NOT TO SCALE

- EXISTING FEATURES:**
- 24' --- EXISTING MAJOR CONTOURS
 - 625' --- EXISTING MINOR CONTOURS
 - EXISTING PROPERTY LINE
 - EXISTING FENCE
 - EXISTING FIRE HYDRANT
 - EXISTING SIGN
 - EXISTING LIGHT POLE
 - EXISTING UTILITY POLE
 - SANITARY MANHOLE
 - CB --- CATCH BASIN
 - EXISTING VALVE
 - EXISTING OVERHEAD ELECTRIC LINE
 - S --- EXISTING SANITARY SEWER LINE
 - W --- EXISTING GAS LINE
 - D --- EXISTING STORM SEWER LINE
 - EXISTING TREE LINE
 - ORDINARY HIGHWATER MARK
 - EXISTING TREE

- PROPOSED FEATURES:**
- STREAM CENTERLINE
 - PROPOSED CHANNEL WALL REPAIR AND REBUILD
 - PROPOSED CULVERT CLEANOUT AOBE
 - PROPOSED TREE REMOVAL
 - PROPOSED TREE TRIMMING
 - PROPOSED SEDIMENT FILTER LOG
 - STREAM CROSS SECTIONS
 - PROPOSED STREAM BED
 - PROPOSED CLEARING & GRUBBING LIMITS AS REQUIRED
 - PROPOSED WATERWAY DIVERSION STRUCTURE
 - EASEMENT
 - TPA --- PROPOSED TEMPORARY PUMP AROUND
 - PROPOSED EMBANKMENT CENTERLINE
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED GEOTEXTILE FABRIC SEDIMENT COLLECTION BAG
 - ACCESS PATH
 - PROPOSED LIMITS OF EXISTING CHANNEL CLEANING

A1 LEGEND
SCALE: NOT TO SCALE

A2 PROPOSED LEGEND
SCALE: NOT TO SCALE

MARK	DATE	DESCRIPTION

REVISIONS	
PROJECT NO:	119.431.006
DATE:	MAY 2024
DRAWN BY:	M. GALLEGOS
DESIGNED BY:	E. AVERSA, P.E.
CHECKED BY:	K. MAZIARZ

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

GENERAL NOTES

C-001

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- DUE TO THE NATURE OF THE WORK REQUIRED BY THIS CONTRACT, IT IS ANTICIPATED THE LOCATION AND NATURE OF EROSION AND SEDIMENT CONTROL MEASURES WILL BE ADJUSTED AS CONSTRUCTION PROGRESSES TO REFLECT THE CURRENT PHASE OF WORK. THE CONSTRUCTION SCHEDULE ADOPTED BY THE CONTRACTOR WILL IMPACT THE PLACEMENT AND NEED FOR SPECIFIC DEVICES REQUIRED FOR THE CONTROL OF EROSION. THE LOCATION AND EXTENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REVISED AT EACH PHASE OF CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE ENGINEER, OWNER, AND REGULATORY AGENCIES FOR DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- SOIL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED AND FULLY FUNCTIONAL PRIOR TO ANY SITE DISTURBANCE. SOIL EROSION AND SEDIMENT CONTROL FACILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION AND REMOVED UPON COMPLETION OF CONSTRUCTION. IF CLEARING IS REQUIRED FOR INSTALLATION OF A PARTICULAR MEASURE, ALL MEASURES NOT REQUIRING CLEARING SHALL BE INSTALLED FIRST. CLEARING OF THE NECESSARY LAND FOR INSTALLATION OF THE PARTICULAR MEASURE MAY THEN PROCEED.
- NO EXCAVATION WORK SHALL BE CONDUCTED IN AREAS WITH FLOWING WATER.
- PRIOR TO ANY SEDIMENT REMOVAL, WATER DIVERSION STRUCTURES SHALL BE INSTALLED AS INDICATED ON THE CONTRACT DOCUMENTS.
- ADDITIONAL SEDIMENT CONTROL MEASURES (SUCH AS TURBIDITY CURTAINS OR CHECK DAMS) SHALL BE INSTALLED BY THE CONTRACTOR FOR SEDIMENT CONTROL PURPOSES, AOB.
- EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED DAILY.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY AS REQUIRED TO MAINTAIN PERFORMANCE OF MEASURE. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-THIRD OF THE HEIGHT OF THE CONTROL STRUCTURE. REMOVED SEDIMENT SHALL BE DISPOSED OF IN SUCH A MANNER AND LOCATIONS AS TO INSURE FURTHER SEDIMENT TRANSPORT DOES NOT OCCUR.
- ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSE ONSITE ROADWAYS. IF MATERIAL IS TRACKED ONTO OFFSITE ROADWAYS, IT SHALL BE REMOVED IMMEDIATELY. DO NOT UTILIZE A WATER HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT CONTROL DEVICE. PROPER PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT MATERIALS DEPOSITED ONTO OFFSITE ROADWAYS ARE REMOVED SO THAT THEY DO NOT ENTER YARD INLETS, CATCH BASINS, SEWERS, WETLANDS, SURFACE WATER BODIES, OR ROADSIDE SWALES.
- DISPOSAL TRUCKS SHALL NOT LEAVE THE SITE WITH WATER DISCHARGING FROM THE TRUCK BED.
- FILTER SHALL BE USED AT THE INTAKE TO PREVENT SILT FROM BEING PUMPED.
- STORM INLETS SHALL BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION BY USE OF INLET PROTECTION OR OTHER APPROVED MEANS.
- CONTRACTOR TO PROVIDE APPROVED DUST CONTROL MEASURES. THE CONTRACTOR SHALL HAVE A WATER TRUCK OR OTHER ACCEPTABLE MEANS OF CONTROLLING DUST AVAILABLE AT ALL TIMES.
- THE DIVERSION STRUCTURES SHALL BE REMOVED AT THE END OF EVERY WORK DAY.
- THE AREAS OF CONSTRUCTION SHALL BE LEFT IN STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY.
- CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE ON STOCKPILES AND IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THIS REQUIREMENT DOES NOT APPLY IN THE FOLLOWING INSTANCES:
 - WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED WHEN AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN FOURTEEN (14) DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THAT PORTION OF THE SITE.
- ALL DISTURBED AREAS, EXCEPT FOR CONCRETE AND PAVED AREAS, SHALL BE FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE SEEDING SCHEDULE, AND RE-SEEDED AS NECESSARY, TO ESTABLISH AND MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE, PERMANENT VEGETATION IS ESTABLISHED ON ALL DISTURBED AREAS, AND LOCAL AUTHORITIES HAVE GIVEN PERMISSION FOR REMOVAL.

SEQUENCE OF CONSTRUCTION:

PHASE 1: MOBILIZATION AND SITE PREPARATION

- PROVIDE THE CITY OF SYRACUSE AND OWNER'S REPRESENTATIVE 48 HOUR NOTIFICATION TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING. THE PRE-CONSTRUCTION MEETING MUST INCLUDE THE CONTRACTOR, OWNER, AND ENGINEER.
- PRIOR TO PRE-CONSTRUCTION MEETING, THE CONTRACTOR IS TO HAVE ALL TREES TO BE TRIMMED AND REMOVED STAKED OUT IN THE FIELD FOR REVIEW AND APPROVAL BY THE OWNER AND ENGINEER.
- THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK AT LEAST 72 HOURS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL INSTALL THE TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON THE DRAWINGS.
- BEGINNING AT THE SOUTHSIDE OF THE PROJECT LIMITS (AT THE SYRACUSE CITY LIMIT LINE), NEAR EDNA ROAD, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES APPLICABLE TO CLEAR WATER DIVERSION #1 AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE NEW YORK EROSION AND SEDIMENT CONTROL HANDBOOK (NYESCH). THESE MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, DIVERSION STRUCTURES, FILTER BAGS, AND SEDIMENT LOGS.
- INSTALL FOREST CONSERVATION MEASURES INCLUDING, BUT NOT LIMITED TO, TREE PROTECTION FENCING FOR THE ENTIRETY OF THE PROJECT.
- THE ON SITE REPRESENTATIVE MUST APPROVE PHASE 1 PRIOR TO CONTINUING TO THE NEXT PHASE OF CONSTRUCTION.

PHASE 2: CONSTRUCTION

- TRIM TREES EARMARKED FOR TRIMMING AOB.
- CLEAR AND GRUB VEGETATION ALONG COLD BROOK TO TOP OF BANK IN ACCORDANCE WITH STANDARD SPECIFICATION 621.51970008 -GRADING, CLEANING AND RESHAPING EXISTING CHANNELS, DITCHES AND STREAMBEDS.
- BEGINNING UPSTREAM, INSTALL TEMPORARY PUMP AROUND WATER DIVERSION #3 PUMP AND DISCHARGE LINE. ALL WORK WITHIN COLD BROOK SHALL OCCUR BETWEEN MAY 15TH AND OCTOBER 1ST. PERFORM SEDIMENT REMOVAL WORK FROM THE START STATION TO END STATION AS SHOWN IN THE TABLE BELOW.
- ALL SEDIMENT SHALL BE IMMEDIATELY DEWATERED, LOADED INTO A DUMP TRUCK, AND REMOVED OFF-SITE FOR DISPOSAL. NO SEDIMENT SHALL BE STOCKPILED ON-SITE.
- FOLLOWING COMPLETION OF SEDIMENT REMOVAL, CONTRACTOR TO REMOVE BOTH DOWNSTREAM AND UPSTREAM SEDIMENT DIKES ALONG DIVERSION SECTION #3. SECTIONS #1 AND #2 ARE NOT TO BE DREDGED PER DEC PERMIT REQUIREMENTS.
- CONTRACTOR TO REPEAT STEPS 3 THRU 5 FOR ALL DIVERSION SECTIONS (GENERALLY SEPARATED BY CULVERTS AS INDICATED ON THE CONTRACT DRAWINGS) LISTED IN THE TABLE BELOW:

SECTION NUMBER	STARTING STATION	ENDING STATION	TOTAL LENGTH (FT)
#1	0+00	02+12	312
#2	02+80	06+80	300
#3	07+55	10+73	318
#4	11+25	14+37	312
#5	14+89	17+56	267
#6	18+08	19+41	133
#7	19+80	23+05	345
#8	23+85	26+58	293
#9	27+20	29+70	250
#10	30+31	33+73	342
#11	34+25	37+05	280
#12	37+55	40+18	263
#13	40+69	43+33	264
#14	43+83	58+85	1502

EXCLUDED FROM THIS CONTRACT
EXCLUDED FROM THIS CONTRACT

- THE ON SITE REPRESENTATIVE MUST APPROVE PHASE 2 PRIOR TO CONTINUING TO THE NEXT PHASE OF CONSTRUCTION.

PHASE 3: PLANTING, PUNCH LIST AND DEMOBILIZATION

- UPON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS SHALL BE FINE GRADED AND PERMANENTLY STABILIZED AS APPROPRIATE, PRIOR TO SCHEDULING FINAL INSPECTION.
- SCHEDULE AND CONDUCT AN ON-SITE PUNCHLIST WALK-THROUGH MEETING AND CORRECT ANY OUTSTANDING ITEMS.
- ESC MEASURES SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE AND APPROVAL IS OBTAINED FROM THE ON SITE REPRESENTATIVE.
- ONCE APPROVAL IS OBTAINED, REMOVE SEDIMENT CONTROL DEVICES INCLUDING TREE PROTECTION FENCE.
- SCHEDULE AND CONDUCT A FINAL PUNCH LIST WALK.

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION:
THE SITE IS LOCATED IN THE SOUTHWEST QUADRANT OF THE CITY OF SYRACUSE ALONG COLD BROOK. THE PROJECT ENCOMPASSES APPROXIMATELY 6,150 LINEAL FEET OF THE CHANNEL, BEGINNING AT THE CITY OF SYRACUSE, TOWN OF ONONDAGA MUNICIPAL BOUNDARY, AND EXTENDING TO THE SOUTH SIDE OF ROUTE 173.

EXISTING SITE CONDITIONS:
CONDITIONS VARY ACROSS THE ~6,150 LINEAL FEET OF COLD BROOK. THESE CONDITIONS INCLUDE BUT ARE NOT LIMITED TO: HEAVILY WOODED ALONG BOTH SIDES OF COLD BROOK, OPEN SPACE WITH WALKABLE TRAILS ALONG ONE SIDE OF COLD BROOK, LAWN ON BOTH SIDES OF COLD BROOK, OR ROADWAY ALONG ONE SIDE OF COLD BROOK.

ADJACENT AREAS:
THE SITE IS BORDERED BY WOODED AREAS, RESIDENTIAL HOMES, AND ROADS.

OFF-SITE AREAS:
EASEMENTS AND WORK RELEASES HAVE BEEN ACQUIRED FOR ALL WORK REQUIRING OFF-SITE ACCESS

SOILS:
SOILS WITHIN THE PROJECT AREA ARE CLASSIFIED BY NRCS' WEB SOIL SURVEY AND ARE LISTED BELOW. ADDITIONAL SOIL CHARACTERISTICS FOR EACH TYPE CAN BE FOUND ON NRCS' WEB SOIL SURVEY.

CRITICAL EROSION AREAS:
ALL DISTURBED AREAS WITHIN THE PROJECT SITE ARE CONSIDERED CRITICAL AREAS WHICH REQUIRE ACCELERATED RESTABILIZATION VIA BIOENGINEERING AND STREAM RESTORATION TECHNIQUES. THE CONSTRUCTION PLANS INCLUDE THESE MEASURES TO MINIMIZE DISTURBANCE OF AND PROVIDE IMMEDIATE EROSION STABILIZATION.

EROSION AND SEDIMENT CONTROL MEASURES:
THE FOLLOWING NYESCH CONTROLS TO BE USED INCLUDE:
CONSTRUCTION ENTRANCE
SILT FENCE
TEMPORARY PUMP AROUND
SAND BAG DIKE
FILTER BAG
TREE PROTECTION FENCE

PERMANENT STABILIZATION:
DISTURBED AREAS OF THE SITE WILL BE SEEDED, MULCHED AND STABILIZED WITH COIR MAT ACCORDING TO THE NEW YORK EROSION AND SEDIMENT CONTROL HANDBOOK REQUIREMENTS AND THE PLANTING PLANS.

STORMWATER RUNOFF CONSIDERATIONS:
STORMWATER RUNOFF WILL NOT BE INCREASED WITH THE COMPLETION OF THIS PROJECT.

EROSION AND SEDIMENT CONTROL MAINTENANCE NOTES:
IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAINFALL OR WEEKLY, WHICHEVER IS MORE FREQUENT, AND SHOULD BE CLEANED AND REPAIRED ACCORDING TO THE FOLLOWING SCHEDULE:
1. EROSION AND SEDIMENT CONTROLS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION AND BUILDUP OR CLOGGING WITH SEDIMENT. CORRECTIVE ACTION SHALL BE TAKEN IMMEDIATELY.
2. FREQUENT INSPECTIONS AND CLEANING OF MUD AND DEBRIS FOUND OUTSIDE OF THE LIMITS OF DISTURBANCE IS REQUIRED, ALONG WITH ANY OTHER REMEDIES REQUIRED BY THE CITY.
3. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE RESEEDED AS NEEDED. TEMPORARY STABILIZATION WILL BE USED AS REQUIRED BY THE CITY.



C&S Engineers, Inc.
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**COLD BROOK SEDIMENT REMOVAL
AND CHANNEL WALL REPAIRS
GENERAL SEWER SERVICES
AGREEMENT WORK ORDER #5
ONONDAGA COUNTY, NY**

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 119.431.006
DATE: MAY 2024
DRAWN BY: M. GALLEGOS
DESIGNED BY: E. AVERSA, P.E.
CHECKED BY: K. MAZIARZ

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7208 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

**EROSION AND
SEDIMENT CONTROL
GENERAL NOTES**

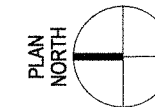
C-002

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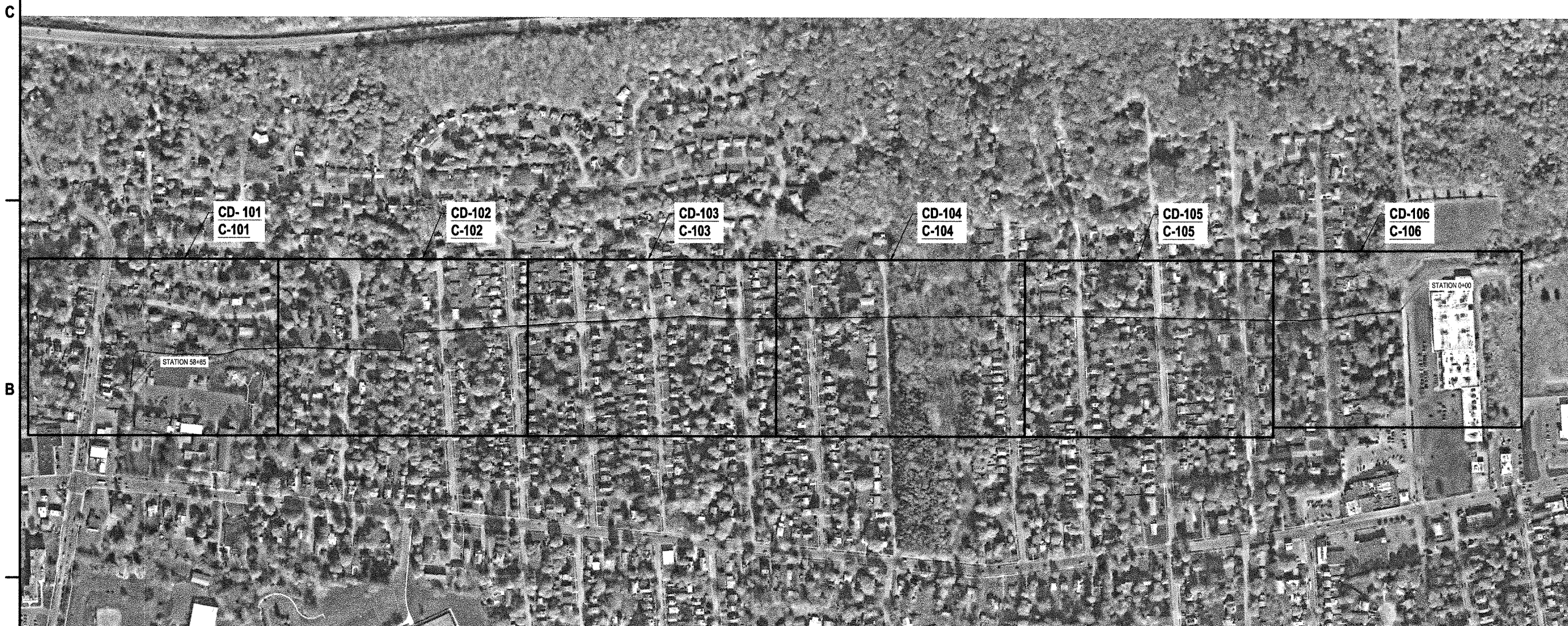
**COLD BROOK SEDIMENT REMOVAL
 AND CHANNEL WALL REPAIRS
 GENERAL SEWER SERVICES
 AGREEMENT WORK ORDER #5
 ONONDAGA COUNTY, NY**

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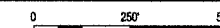
KEY MAP

C-100



May 15, 2024, 9:52am
 P:\Projects\119 - City of Syracuse\119431006 - Phase 2 Cold Brook Sediment Removal\Design\CAD\Sheet Files\119431006_KEY_MAP.dwg

A1 KEY MAP
 SCALE: 1"=50'



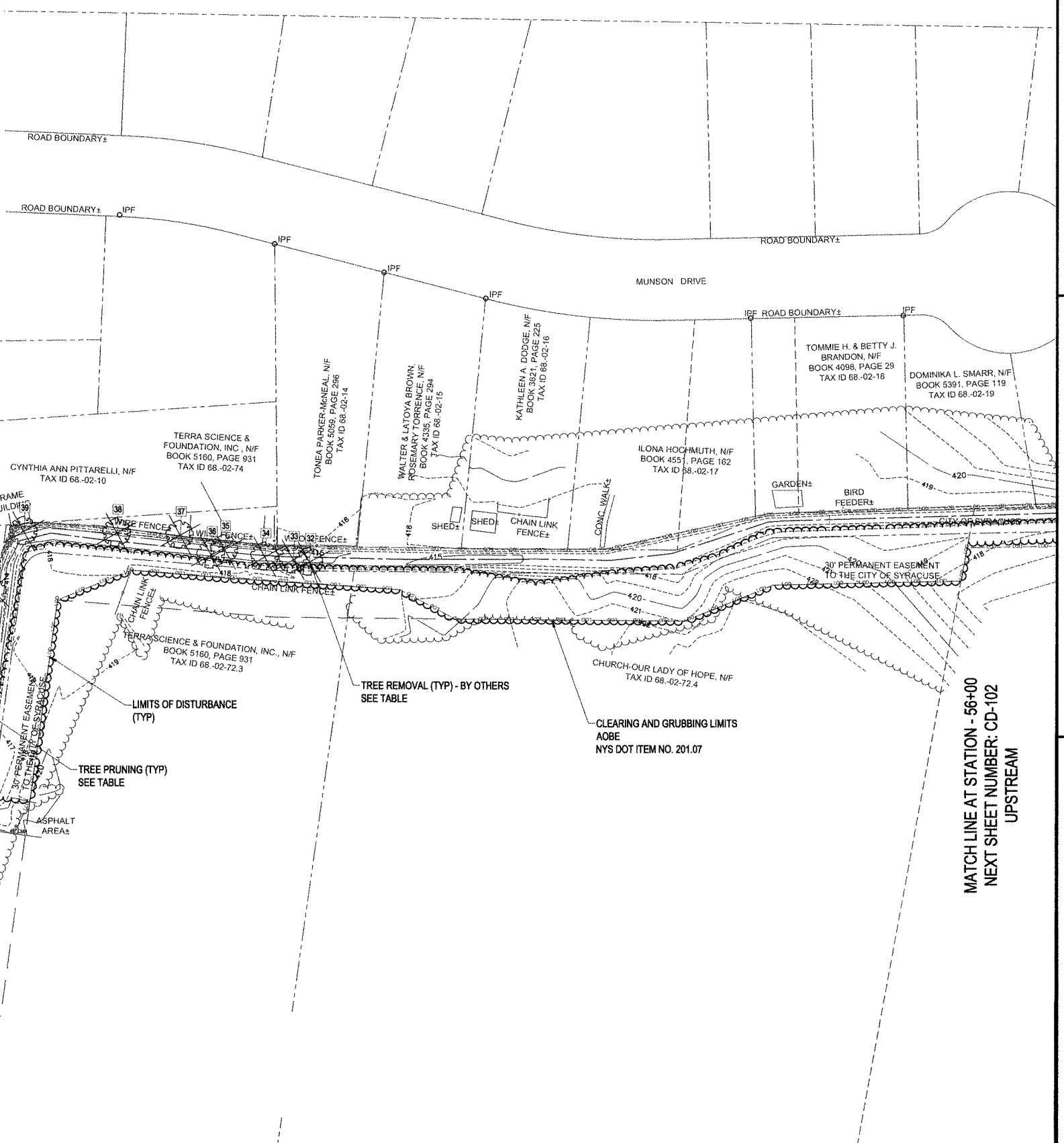
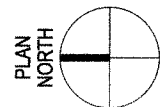
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3

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TREE SUMMARY TABLE			TREE SUMMARY TABLE			TREE SUMMARY TABLE		
POINT #	DESCRIPTION	NYS DOT ITEM NO.	POINT #	DESCRIPTION	NYS DOT ITEM NO.	POINT #	DESCRIPTION	NYS DOT ITEM NO.
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44	TREE REMOVAL (1) - BY OTHERS	614.060304	29	TREE PRUNING	614.0421	14	TREE REMOVAL (3) - BY OTHERS	614.060304
43	STUMP REMOVAL (1)	614.0703	28	TREE REMOVAL (1) - BY OTHERS	614.060204	13	TREE REMOVAL (4) - BY OTHERS	614.060104
42	TREE REMOVAL (1) - BY OTHERS	614.060504	27	TREE REMOVAL (1) - BY OTHERS	614.060204	12	TREE PRUNING - BY OTHERS	614.0421
41	TREE REMOVAL (1) - BY OTHERS	614.060404	26	TREE REMOVAL (5) - BY OTHERS	614.060204	11	TREE REMOVAL (1) - BY OTHERS	614.060304
40	TREE PRUNING (AOBE)	614.0421	25	TREE REMOVAL (1) - BY OTHERS	614.060404	10	TREE PRUNING - BY OTHERS	614.0431
39	TREE REMOVAL (1) - BY OTHERS	614.060504	24	TREE REMOVAL (5) - BY OTHERS	614.060104	9	TREE REMOVAL (3) - BY OTHERS	614.060104
38	TREE REMOVAL (1) - BY OTHERS	614.060504	23	TREE PRUNING - BY OTHERS	614.0421	8	TREE REMOVAL (1) - BY OTHERS	614.060104
37	TREE REMOVAL (1) - BY OTHERS	614.060504	22	TREE PRUNING (2) - BY OTHERS	614.0421	7	TREE REMOVAL (1) - BY OTHERS	614.060504
36	TREE REMOVAL (1) - BY OTHERS	614.060504	21	TREE TRIMMING	614.0421	6	TREE REMOVAL (1) - BY OTHERS	614.060204
35	TREE REMOVAL (1) - BY OTHERS	614.060504	20	TREE REMOVAL (1) - BY OTHERS	614.060404	5	TREE REMOVAL (1) - BY OTHERS	614.060404
34	TREE REMOVAL (1) - BY OTHERS	614.060204	19	TREE REMOVALS (2) - BY OTHERS	614.060404	4	TREE REMOVAL (1) - BY OTHERS	614.060504
33	TREE REMOVAL (1) - BY OTHERS	614.060504	18	TREE REMOVAL (1) - BY OTHERS	614.060404	3	TREE REMOVAL (3) - BY OTHERS	614.060204
32	TREE REMOVAL (2) - BY OTHERS	614.060504	17	TREE REMOVAL (1) - BY OTHERS	614.060304	2	STUMP REMOVAL	614.0703
31	TREE PRUNING - BY OTHERS	614.0431	16	TREE REMOVAL (1) - BY OTHERS	614.060404	1	TREE REMOVAL (4) - BY OTHERS	614.060304



MATCH LINE AT STATION - 56+00
NEXT SHEET NUMBER: CD-102
UPSTREAM

NOTE:
1. ALL STUMPS WITHIN THE CLEARING AND GRUBBING LIMITS SHALL BE GRUBBED UNLESS LOCATED WITHIN THE BANK WALLS. STUMPS LOCATED WITHIN BANK WALLS SHALL BE REMOVED IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION 614-1.04 OR AS ORDERED BY THE ENGINEER.
2. ALL EXISTING STUMPS TO BE REMOVED UNDER PAY ITEM 614.07NN SHALL BE GRUBBED UNLESS OTHERWISE ORDERED BY THE ENGINEER.

A1 EXISTING CONDITIONS AND DEMO PLAN
SCALE: 1" = 40'



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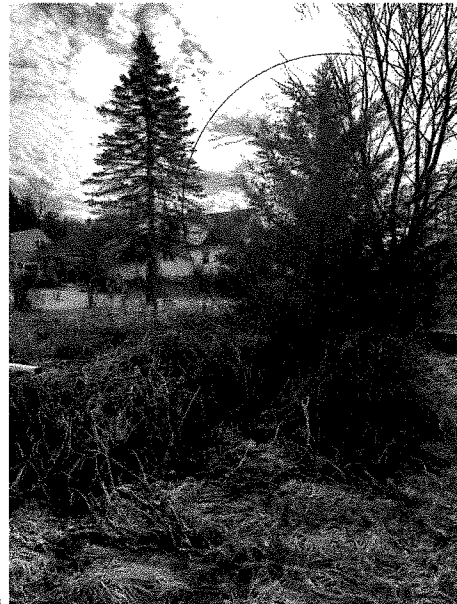
**COLD BROOK SEDIMENT REMOVAL
AND CHANNEL WALL REPAIRS
GENERAL SEWER SERVICES
AGREEMENT WORK ORDER #5
ONONDAGA COUNTY, NY**

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REVISIONS		
PROJECT NO: 119,431.006		
DATE: MAY 2024		
DRAWN BY: M. GALLEGOS		
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CHECKED BY: K. MAZIARZ		

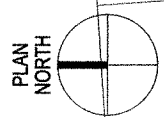
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7208 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

**EXISTING
CONDITIONS AND
DEMO PLAN**

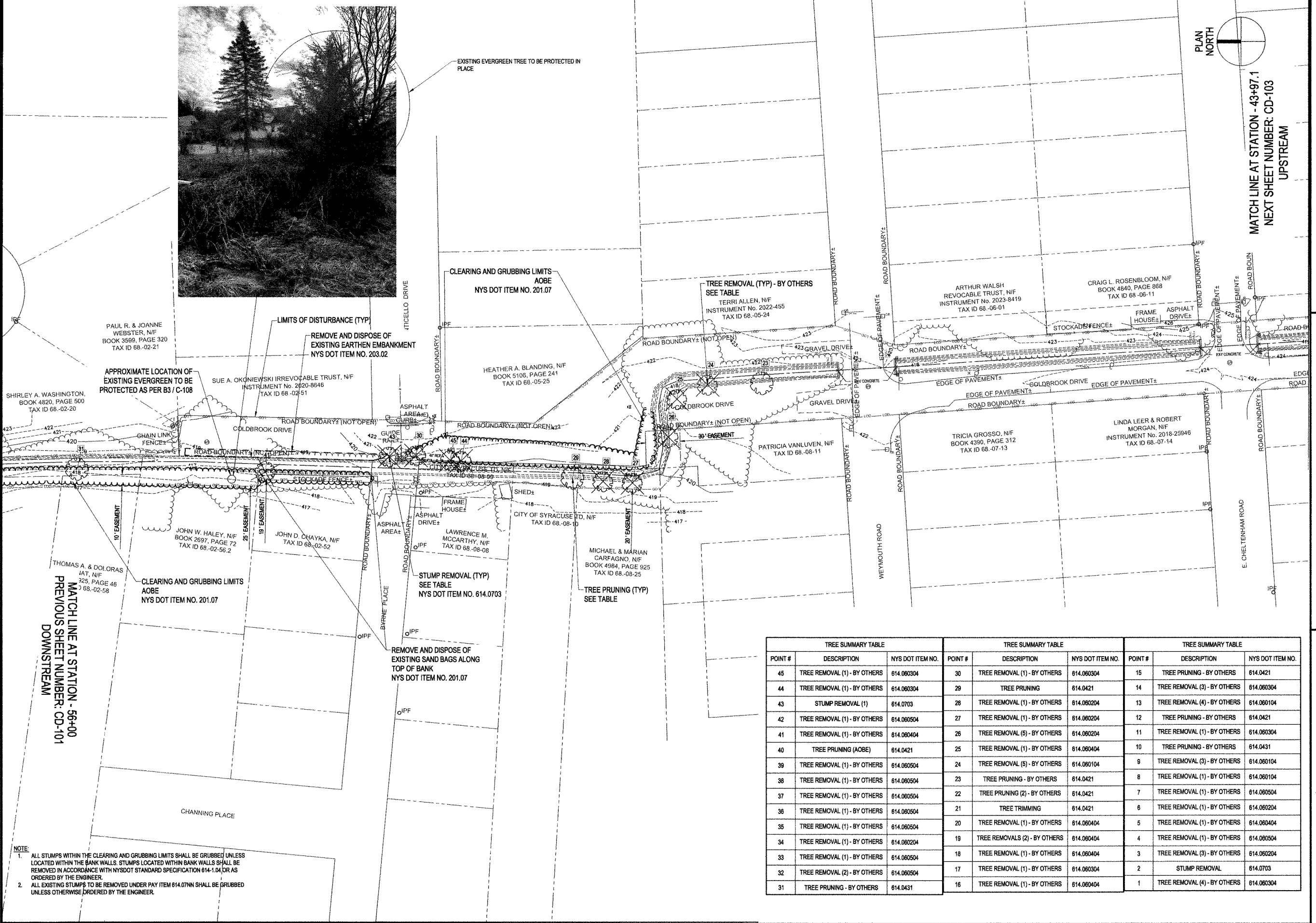
CD-101



EXISTING EVERGREEN TREE TO BE PROTECTED IN PLACE



MATCH LINE AT STATION - 43+97.1
NEXT SHEET NUMBER: CD-103
UPSTREAM



PAUL R. & JOANNE WEBSTER, N/F
BOOK 3599, PAGE 320
TAX ID 68-02-21

APPROXIMATE LOCATION OF EXISTING EVERGREEN TO BE PROTECTED AS PER B3/C-108

LIMITS OF DISTURBANCE (TYP)

REMOVE AND DISPOSE OF EXISTING EARTHEN EMBANKMENT
NYS DOT ITEM NO. 203.02

SUE A. OKONIEWSKI IRREVOCABLE TRUST, N/F
INSTRUMENT No. 2020-8646
TAX ID 68-02-51

HEATHER A. BLANDING, N/F
BOOK 5106, PAGE 241
TAX ID 68-05-25

TREE REMOVAL (TYP) - BY OTHERS
SEE TABLE
TERRI ALLEN, N/F
INSTRUMENT No. 2022-455
TAX ID 68-05-24

ARTHUR WALSH REVOCABLE TRUST, N/F
INSTRUMENT No. 2023-8419
TAX ID 68-06-01

CRAIG L. ROSENBLUM, N/F
BOOK 4840, PAGE 868
TAX ID 68-06-11

SHIRLEY A. WASHINGTON, N/F
BOOK 4820, PAGE 500
TAX ID 68-02-20

JOHN W. HALEY, N/F
BOOK 2697, PAGE 72
TAX ID 68-02-56.2

JOHN D. CHAYKA, N/F
TAX ID 68-02-52

THOMAS A. & DOLORAS IAT, N/F
BOOK 325, PAGE 46
TAX ID 68-02-58

CLEARING AND GRUBBING LIMITS
AOBE
NYS DOT ITEM NO. 201.07

STUMP REMOVAL (TYP)
SEE TABLE
NYS DOT ITEM NO. 614.0703

TREE PRUNING (TYP)
SEE TABLE

REMOVE AND DISPOSE OF EXISTING SAND BAGS ALONG TOP OF BANK
NYS DOT ITEM NO. 201.07

LAWRENCE M. MCCARTHY, N/F
TAX ID 68-08-08

MICHAEL & MARIAN CARFAGNO, N/F
BOOK 4984, PAGE 925
TAX ID 68-08-25

TRICIA GROSSO, N/F
BOOK 4390, PAGE 312
TAX ID 68-07-13

LINDA LEER & ROBERT MORGAN, N/F
INSTRUMENT No. 2018-25946
TAX ID 68-07-14

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COLD BROOK SEDIMENT REMOVAL AND CHANNEL WALL REPAIRS AND GENERAL SEWER SERVICES AGREEMENT WORK ORDER #5 ONONDAGA COUNTY, NY

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 119.431.006		
DATE: MAY 2024		
DRAWN BY: M. GALLEGOS		
DESIGNED BY: E. AVERSA, P.E.		
CHECKED BY: K. MAZIARZ		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

EXISTING CONDITIONS AND DEMO PLAN

CD-102

May 15, 2024 - 3:24pm - P:\Projects\110 - City of Syracuse\110 - Phase 2 Cold Brook Sediment Removal\Design\CADD\Sheet Files\110103_CD102_CD102.dwg

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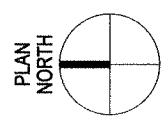
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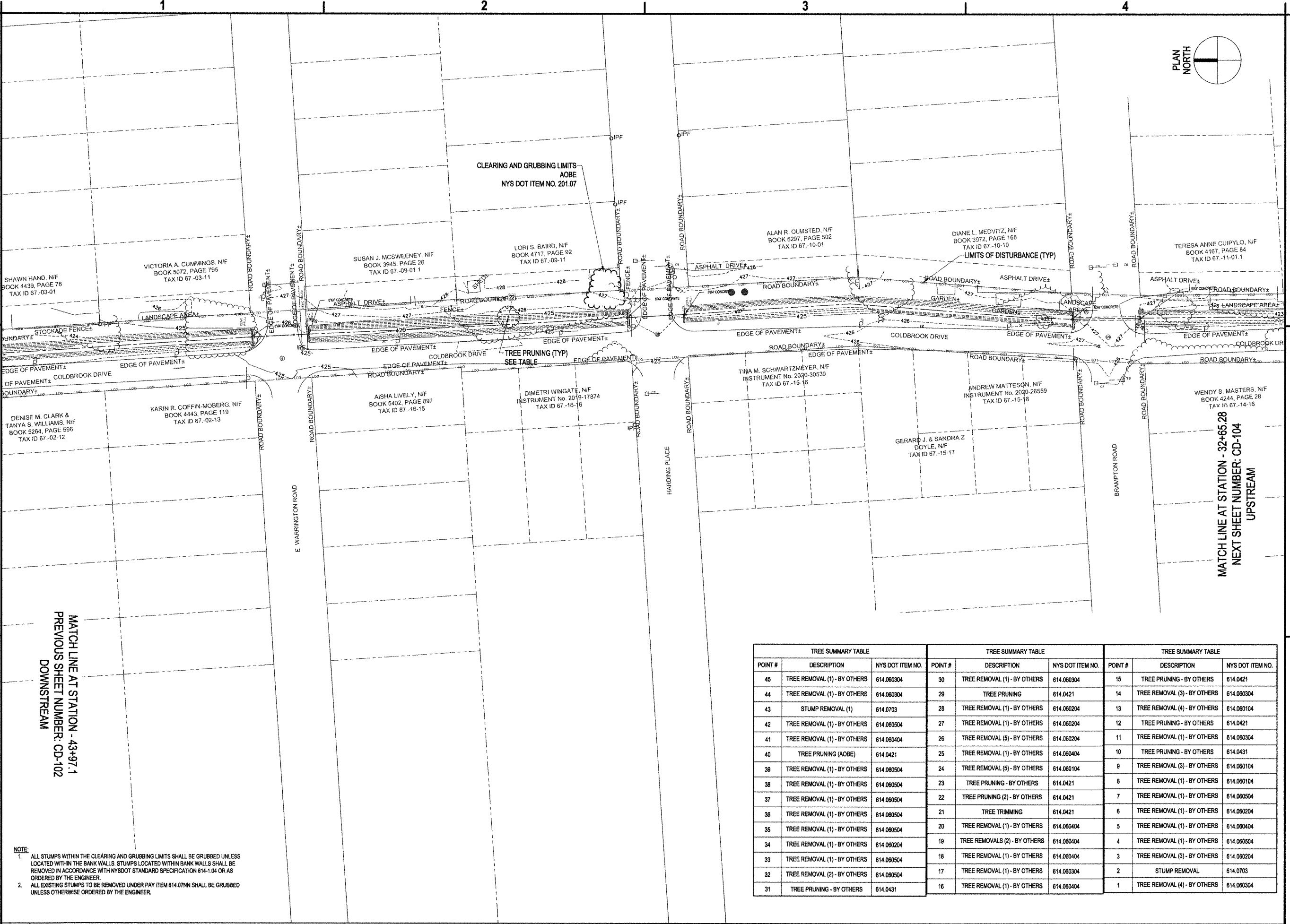
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 Syracuse, New York 13212
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 Fax 315-455-9667
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**COLD BROOK SEDIMENT REMOVAL
 AND CHANNEL WALL REPAIRS
 GENERAL SEWER SERVICES
 AGREEMENT WORK ORDER #5
 ONONDAGA COUNTY, NY**

MATCH LINE AT STATION - 32+65.28
 NEXT SHEET NUMBER: CD-104
 UPSTREAM

MATCH LINE AT STATION - 43+97.1
 PREVIOUS SHEET NUMBER: CD-102
 DOWNSTREAM



TREE SUMMARY TABLE				TREE SUMMARY TABLE				TREE SUMMARY TABLE			
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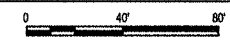
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 119.431.006		
DATE: MAY 2024		
DRAWN BY: M. GALLEGOS		
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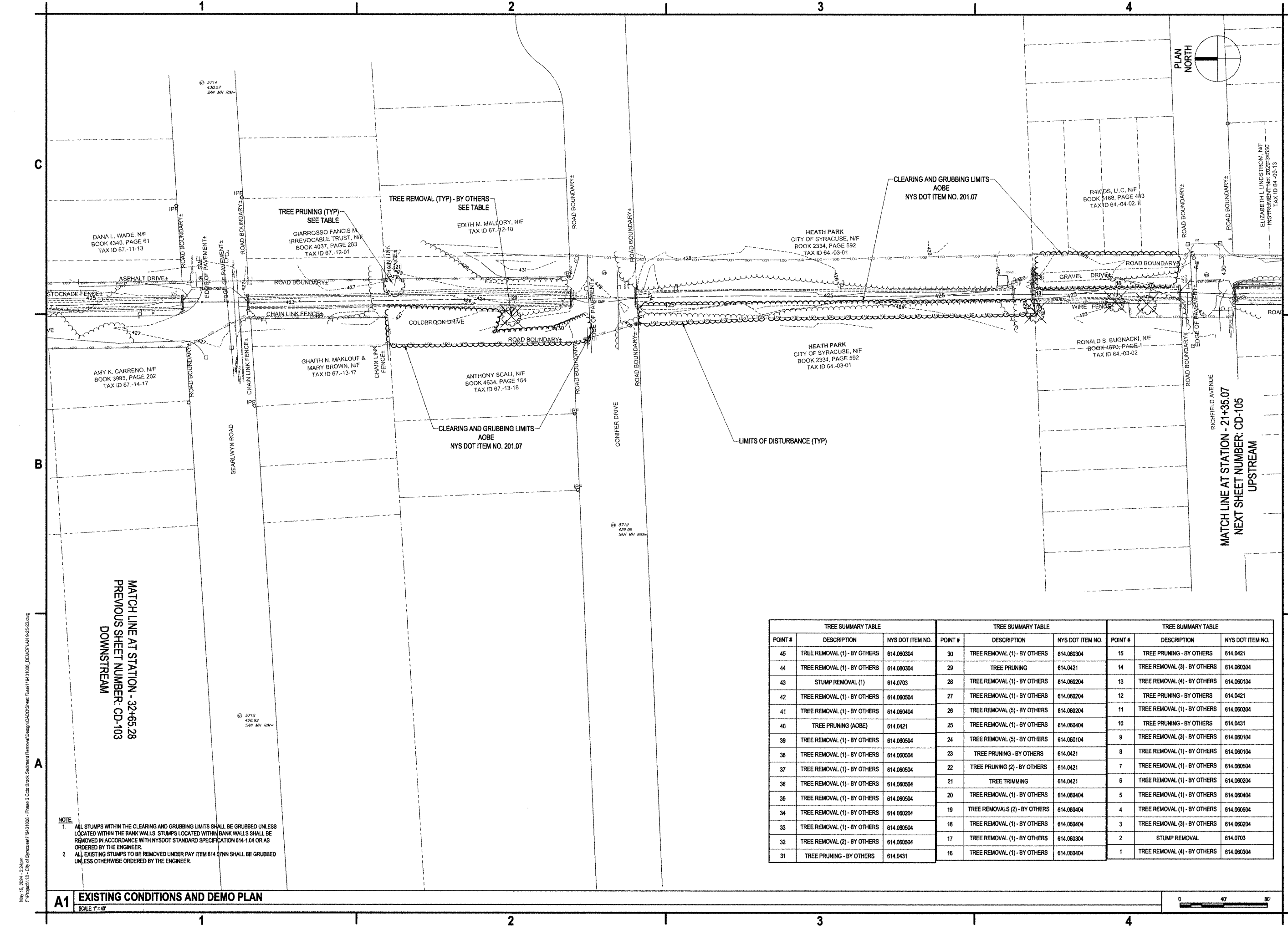
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**EXISTING
 CONDITIONS AND
 DEMO PLAN**

CD-103

May 15, 2024 - 3:24pm
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 Syracuse
 City of Onondaga





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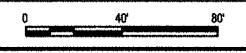
**EXISTING
 CONDITIONS AND
 DEMO PLAN**

CD-104

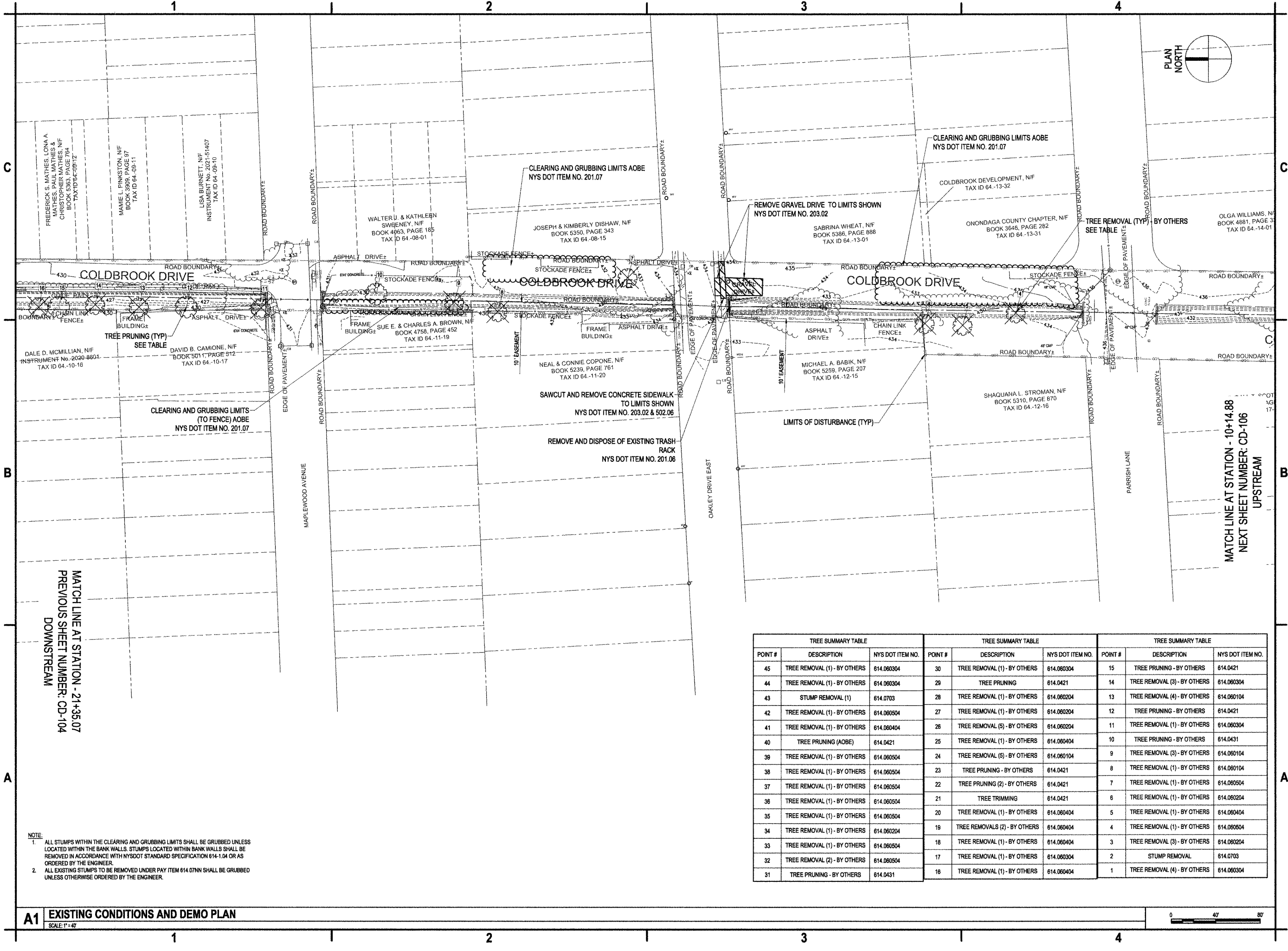
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POINT #	DESCRIPTION	NYS DOT ITEM NO.	POINT #	DESCRIPTION	NYS DOT ITEM NO.	POINT #	DESCRIPTION	NYS DOT ITEM NO.
45	TREE REMOVAL (1) - BY OTHERS	614.060304	30	TREE REMOVAL (1) - BY OTHERS	614.060304	15	TREE PRUNING - BY OTHERS	614.0421
44	TREE REMOVAL (1) - BY OTHERS	614.060304	29	TREE PRUNING	614.0421	14	TREE REMOVAL (3) - BY OTHERS	614.060304
43	STUMP REMOVAL (1)	614.0703	28	TREE REMOVAL (1) - BY OTHERS	614.060204	13	TREE REMOVAL (4) - BY OTHERS	614.060104
42	TREE REMOVAL (1) - BY OTHERS	614.060504	27	TREE REMOVAL (1) - BY OTHERS	614.060204	12	TREE PRUNING - BY OTHERS	614.0421
41	TREE REMOVAL (1) - BY OTHERS	614.060404	26	TREE REMOVAL (5) - BY OTHERS	614.060204	11	TREE REMOVAL (1) - BY OTHERS	614.060304
40	TREE PRUNING (AOBE)	614.0421	25	TREE REMOVAL (1) - BY OTHERS	614.060404	10	TREE PRUNING - BY OTHERS	614.0431
39	TREE REMOVAL (1) - BY OTHERS	614.060504	24	TREE REMOVAL (5) - BY OTHERS	614.060104	9	TREE REMOVAL (3) - BY OTHERS	614.060104
38	TREE REMOVAL (1) - BY OTHERS	614.060504	23	TREE PRUNING - BY OTHERS	614.0421	8	TREE REMOVAL (1) - BY OTHERS	614.060104
37	TREE REMOVAL (1) - BY OTHERS	614.060504	22	TREE PRUNING (2) - BY OTHERS	614.0421	7	TREE REMOVAL (1) - BY OTHERS	614.060504
36	TREE REMOVAL (1) - BY OTHERS	614.060504	21	TREE TRIMMING	614.0421	6	TREE REMOVAL (1) - BY OTHERS	614.060204
35	TREE REMOVAL (1) - BY OTHERS	614.060504	20	TREE REMOVAL (1) - BY OTHERS	614.060404	5	TREE REMOVAL (1) - BY OTHERS	614.060404
34	TREE REMOVAL (1) - BY OTHERS	614.060204	19	TREE REMOVALS (2) - BY OTHERS	614.060404	4	TREE REMOVAL (1) - BY OTHERS	614.060504
33	TREE REMOVAL (1) - BY OTHERS	614.060504	18	TREE REMOVAL (1) - BY OTHERS	614.060404	3	TREE REMOVAL (3) - BY OTHERS	614.060204
32	TREE REMOVAL (2) - BY OTHERS	614.060504	17	TREE REMOVAL (1) - BY OTHERS	614.060304	2	STUMP REMOVAL	614.0703
31	TREE PRUNING - BY OTHERS	614.0431	16	TREE REMOVAL (1) - BY OTHERS	614.060404	1	TREE REMOVAL (4) - BY OTHERS	614.060304

NOTE:
 1. ALL STUMPS WITHIN THE CLEARING AND GRUBBING LIMITS SHALL BE GRUBBED UNLESS LOCATED WITHIN THE BANK WALLS. STUMPS LOCATED WITHIN BANK WALLS SHALL BE REMOVED IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION 614-1.04 OR AS ORDERED BY THE ENGINEER.
 2. ALL EXISTING STUMPS TO BE REMOVED UNDER PAY ITEM 614.07NN SHALL BE GRUBBED UNLESS OTHERWISE ORDERED BY THE ENGINEER.

A1 EXISTING CONDITIONS AND DEMO PLAN
 SCALE: 1"=40'



May 15, 2024 - 3:24pm
 F:\projects\11941006 - Phase 2 Cold Brook Sediment Removal\Design\CAD\Sheet\Plan\11941006_DEMOPLAN19-25-23.dwg
 City of Syracuse



C&S Engineers, Inc.
 499 Col. Eileen Collins Blvd.
 Syracuse, New York 13212
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 www.cscos.com



**COLD BROOK SEDIMENT REMOVAL
 AND CHANNEL WALL REPAIRS
 AND GENERAL SEWER SERVICES
 AGREEMENT WORK ORDER #5
 ONONDAGA COUNTY, NY**

MARK	DATE	DESCRIPTION

REVISIONS
 PROJECT NO: 119.431.006
 DATE: MAY 2024
 DRAWN BY: M. GALLEGOS
 DESIGNED BY: E. AVERSA, P.E.
 CHECKED BY: K. MAZIARZ

NO ALTERATION PERMITTED HEREON
 EXCEPT AS PROVIDED UNDER SECTION
 7209 SUBDIVISION 2 OF THE NEW YORK
 EDUCATION LAW

**EXISTING
 CONDITIONS AND
 DEMO PLAN**

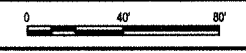
EXISTING CONDITIONS AND DEMO PLAN

CD-105

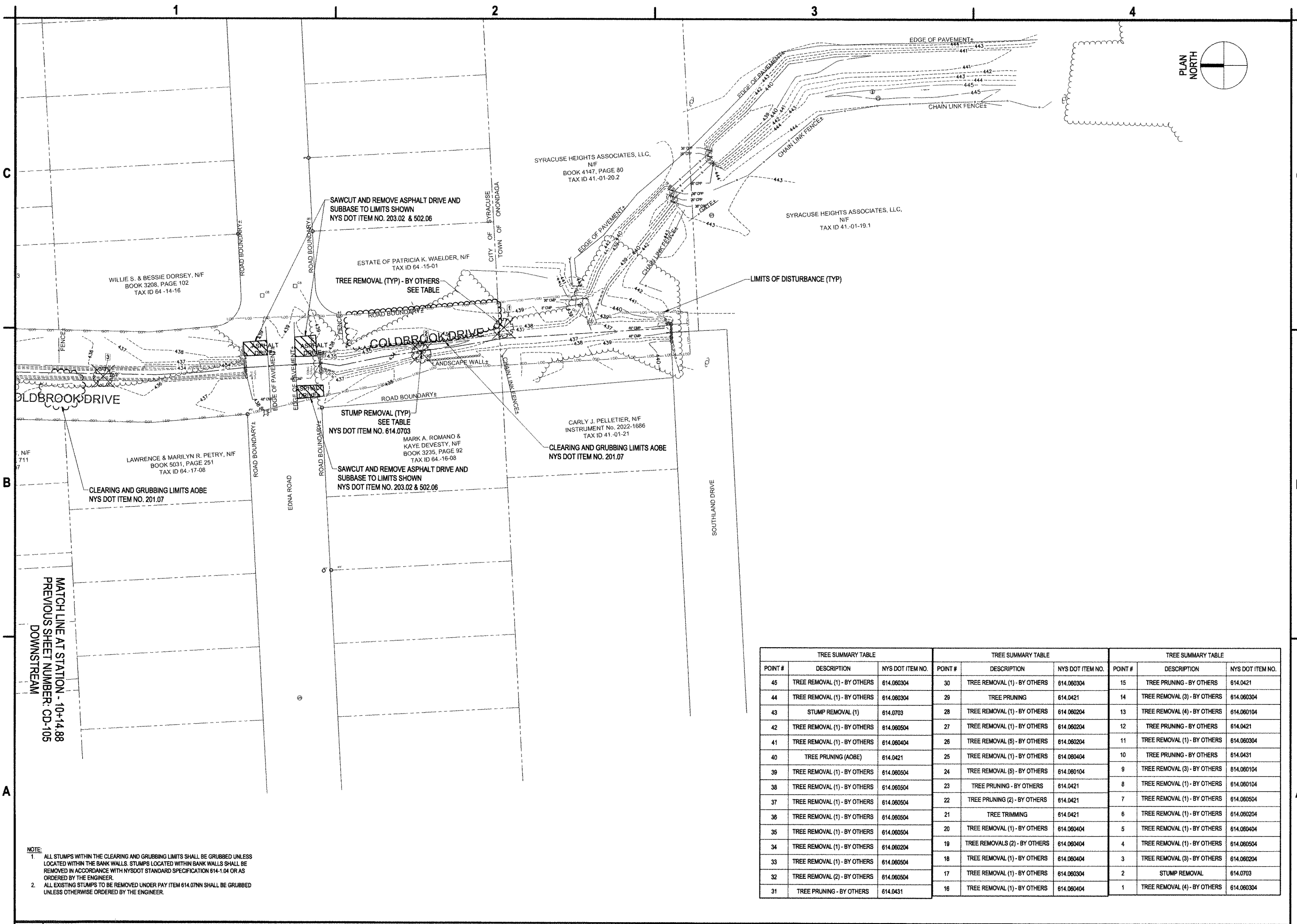
TREE SUMMARY TABLE			TREE SUMMARY TABLE			TREE SUMMARY TABLE		
POINT #	DESCRIPTION	NYS DOT ITEM NO.	POINT #	DESCRIPTION	NYS DOT ITEM NO.	POINT #	DESCRIPTION	NYS DOT ITEM NO.
45	TREE REMOVAL (1) - BY OTHERS	614.060304	30	TREE REMOVAL (1) - BY OTHERS	614.060304	15	TREE PRUNING - BY OTHERS	614.0421
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43	STUMP REMOVAL (1)	614.0703	28	TREE REMOVAL (1) - BY OTHERS	614.060204	13	TREE REMOVAL (4) - BY OTHERS	614.060104
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40	TREE PRUNING (AOBE)	614.0421	25	TREE REMOVAL (1) - BY OTHERS	614.060404	10	TREE PRUNING - BY OTHERS	614.0431
39	TREE REMOVAL (1) - BY OTHERS	614.060504	24	TREE REMOVAL (5) - BY OTHERS	614.060104	9	TREE REMOVAL (3) - BY OTHERS	614.060104
38	TREE REMOVAL (1) - BY OTHERS	614.060504	23	TREE PRUNING - BY OTHERS	614.0421	8	TREE REMOVAL (1) - BY OTHERS	614.060104
37	TREE REMOVAL (1) - BY OTHERS	614.060504	22	TREE PRUNING (2) - BY OTHERS	614.0421	7	TREE REMOVAL (1) - BY OTHERS	614.060504
36	TREE REMOVAL (1) - BY OTHERS	614.060504	21	TREE TRIMMING	614.0421	6	TREE REMOVAL (1) - BY OTHERS	614.060204
35	TREE REMOVAL (1) - BY OTHERS	614.060504	20	TREE REMOVAL (1) - BY OTHERS	614.060404	5	TREE REMOVAL (1) - BY OTHERS	614.060404
34	TREE REMOVAL (1) - BY OTHERS	614.060204	19	TREE REMOVALS (2) - BY OTHERS	614.060404	4	TREE REMOVAL (1) - BY OTHERS	614.060504
33	TREE REMOVAL (1) - BY OTHERS	614.060504	18	TREE REMOVAL (1) - BY OTHERS	614.060404	3	TREE REMOVAL (3) - BY OTHERS	614.060204
32	TREE REMOVAL (2) - BY OTHERS	614.060504	17	TREE REMOVAL (1) - BY OTHERS	614.060304	2	STUMP REMOVAL	614.0703
31	TREE PRUNING - BY OTHERS	614.0431	16	TREE REMOVAL (1) - BY OTHERS	614.060404	1	TREE REMOVAL (4) - BY OTHERS	614.060304

NOTE:
 1. ALL STUMPS WITHIN THE CLEARING AND GRUBBING LIMITS SHALL BE GRUBBED UNLESS LOCATED WITHIN THE BANK WALLS. STUMPS LOCATED WITHIN BANK WALLS SHALL BE REMOVED IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION 614-1.04 OR AS ORDERED BY THE ENGINEER.
 2. ALL EXISTING STUMPS TO BE REMOVED UNDER PAY ITEM 614.07NN SHALL BE GRUBBED UNLESS OTHERWISE ORDERED BY THE ENGINEER.

A1 EXISTING CONDITIONS AND DEMO PLAN
 SCALE: 1" = 40'



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 www.cscos.com



**COLD BROOK SEDIMENT REMOVAL
 AND CHANNEL WALL REPAIRS
 GENERAL SEWER SERVICES
 AGREEMENT WORK ORDER #5
 ONONDAGA COUNTY, NY**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 119.431.006		
DATE: MAY 2024		
DRAWN BY: M. GALLEGOS		
DESIGNED BY: E. AVERSA, P.E.		
CHECKED BY: K. MAZIARZ		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

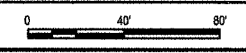
**EXISTING
 CONDITIONS AND
 DEMO PLAN**

CD-106

TREE SUMMARY TABLE			TREE SUMMARY TABLE			TREE SUMMARY TABLE		
POINT #	DESCRIPTION	NYS DOT ITEM NO.	POINT #	DESCRIPTION	NYS DOT ITEM NO.	POINT #	DESCRIPTION	NYS DOT ITEM NO.
45	TREE REMOVAL (1) - BY OTHERS	614.060304	30	TREE REMOVAL (1) - BY OTHERS	614.060304	15	TREE PRUNING - BY OTHERS	614.0421
44	TREE REMOVAL (1) - BY OTHERS	614.060304	29	TREE PRUNING	614.0421	14	TREE REMOVAL (3) - BY OTHERS	614.060304
43	STUMP REMOVAL (1)	614.0703	28	TREE REMOVAL (1) - BY OTHERS	614.060204	13	TREE REMOVAL (4) - BY OTHERS	614.060104
42	TREE REMOVAL (1) - BY OTHERS	614.060504	27	TREE REMOVAL (1) - BY OTHERS	614.060204	12	TREE PRUNING - BY OTHERS	614.0421
41	TREE REMOVAL (1) - BY OTHERS	614.060404	26	TREE REMOVAL (5) - BY OTHERS	614.060204	11	TREE REMOVAL (1) - BY OTHERS	614.060304
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38	TREE REMOVAL (1) - BY OTHERS	614.060504	23	TREE PRUNING - BY OTHERS	614.0421	8	TREE REMOVAL (1) - BY OTHERS	614.060104
37	TREE REMOVAL (1) - BY OTHERS	614.060504	22	TREE PRUNING (2) - BY OTHERS	614.0421	7	TREE REMOVAL (1) - BY OTHERS	614.060504
36	TREE REMOVAL (1) - BY OTHERS	614.060504	21	TREE TRIMMING	614.0421	6	TREE REMOVAL (1) - BY OTHERS	614.060204
35	TREE REMOVAL (1) - BY OTHERS	614.060504	20	TREE REMOVAL (1) - BY OTHERS	614.060404	5	TREE REMOVAL (1) - BY OTHERS	614.060404
34	TREE REMOVAL (1) - BY OTHERS	614.060204	19	TREE REMOVALS (2) - BY OTHERS	614.060404	4	TREE REMOVAL (1) - BY OTHERS	614.060504
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32	TREE REMOVAL (2) - BY OTHERS	614.060504	17	TREE REMOVAL (1) - BY OTHERS	614.060304	2	STUMP REMOVAL	614.0703
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NOTE:
 1. ALL STUMPS WITHIN THE CLEARING AND GRUBBING LIMITS SHALL BE GRUBBED UNLESS LOCATED WITHIN THE BANK WALLS. STUMPS LOCATED WITHIN BANK WALLS SHALL BE REMOVED IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION 614-1.04 OR AS ORDERED BY THE ENGINEER.
 2. ALL EXISTING STUMPS TO BE REMOVED UNDER PAY ITEM 614.07NN SHALL BE GRUBBED UNLESS OTHERWISE ORDERED BY THE ENGINEER.

A1 EXISTING CONDITIONS AND DEMO PLAN
 SCALE: 1" = 40'



May 15, 2024 - 3:26pm
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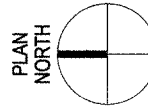
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B

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A

A



C&S Engineers, Inc.
 499 Col. Eileen Collins Blvd.
 Syracuse, New York 13212
 Phone: 315-455-2000
 Fax: 315-455-9667
 www.cscos.com



**COLD BROOK SEDIMENT REMOVAL
 AND CHANNEL WALL REPAIRS
 GENERAL SEWER SERVICES
 AGREEMENT WORK ORDER #5
 ONONDAGA COUNTY, NY**

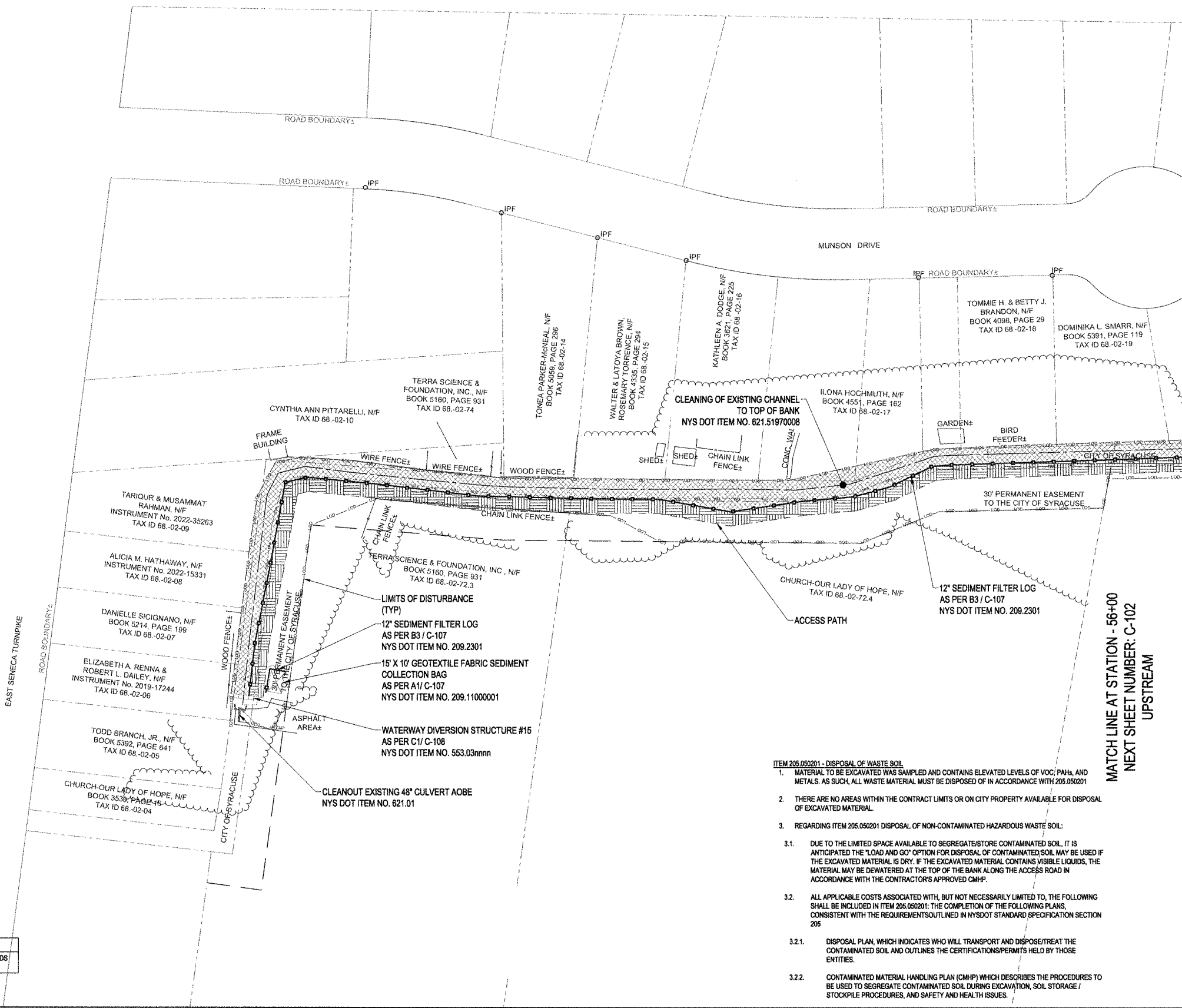
MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 119.431.006
 DATE: MAY 2024
 DRAWN BY: M. GALLEGOS
 DESIGNED BY: E. AVERSA, P.E.
 CHECKED BY:

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7206 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

CIVIL AND SEDIMENT CONTROL PLAN

C-101

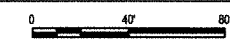


NOTE:
 1. COLD BROOK IS CLASSIFIED BY THE NYSDEC AS A COLD WATER TROUT STREAM. ALL WORK WITHIN THE STREAM SHALL OCCUR BETWEEN MAY 15TH AND OCTOBER 1ST.
 2. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION SECTION 610 - GROUND VEGETATION - PREPARATION, ESTABLISHMENT, AND MANAGEMENT UNDER NYS DOT ITEM NO. 610.1801

SEDIMENT REMOVAL INFORMATION	
TOTAL ESTIMATED SEDIMENT REMOVAL VOLUME	2000 CUBIC YARDS

- ITEM 205.050201 - DISPOSAL OF WASTE SOIL**
- MATERIAL TO BE EXCAVATED WAS SAMPLED AND CONTAINS ELEVATED LEVELS OF VOC, PAHs, AND METALS. AS SUCH, ALL WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH 205.050201
 - THERE ARE NO AREAS WITHIN THE CONTRACT LIMITS OR ON CITY PROPERTY AVAILABLE FOR DISPOSAL OF EXCAVATED MATERIAL.
 - REGARDING ITEM 205.050201 DISPOSAL OF NON-CONTAMINATED HAZARDOUS WASTE SOIL:
 - DUE TO THE LIMITED SPACE AVAILABLE TO SEGREGATE/STORE CONTAMINATED SOIL, IT IS ANTICIPATED THE "LOAD AND GO" OPTION FOR DISPOSAL OF CONTAMINATED SOIL MAY BE USED IF THE EXCAVATED MATERIAL IS DRY. IF THE EXCAVATED MATERIAL CONTAINS VISIBLE LIQUIDS, THE MATERIAL MAY BE DEWATERED AT THE TOP OF THE BANK ALONG THE ACCESS ROAD IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED CMHP.
 - ALL APPLICABLE COSTS ASSOCIATED WITH, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHALL BE INCLUDED IN ITEM 205.050201: THE COMPLETION OF THE FOLLOWING PLANS, CONSISTENT WITH THE REQUIREMENTS OUTLINED IN NYS DOT STANDARD SPECIFICATION SECTION 205
 - DISPOSAL PLAN, WHICH INDICATES WHO WILL TRANSPORT AND DISPOSE/TREAT THE CONTAMINATED SOIL AND OUTLINES THE CERTIFICATIONS/PERMITS HELD BY THOSE ENTITIES.
 - CONTAMINATED MATERIAL HANDLING PLAN (CMHP) WHICH DESCRIBES THE PROCEDURES TO BE USED TO SEGREGATE CONTAMINATED SOIL DURING EXCAVATION, SOIL STORAGE / STOCKPILE PROCEDURES, AND SAFETY AND HEALTH ISSUES.

A1 CIVIL AND SEDIMENT CONTROL PLAN
 SCALE: 1"=40'



May 15, 2024 - 3:24pm
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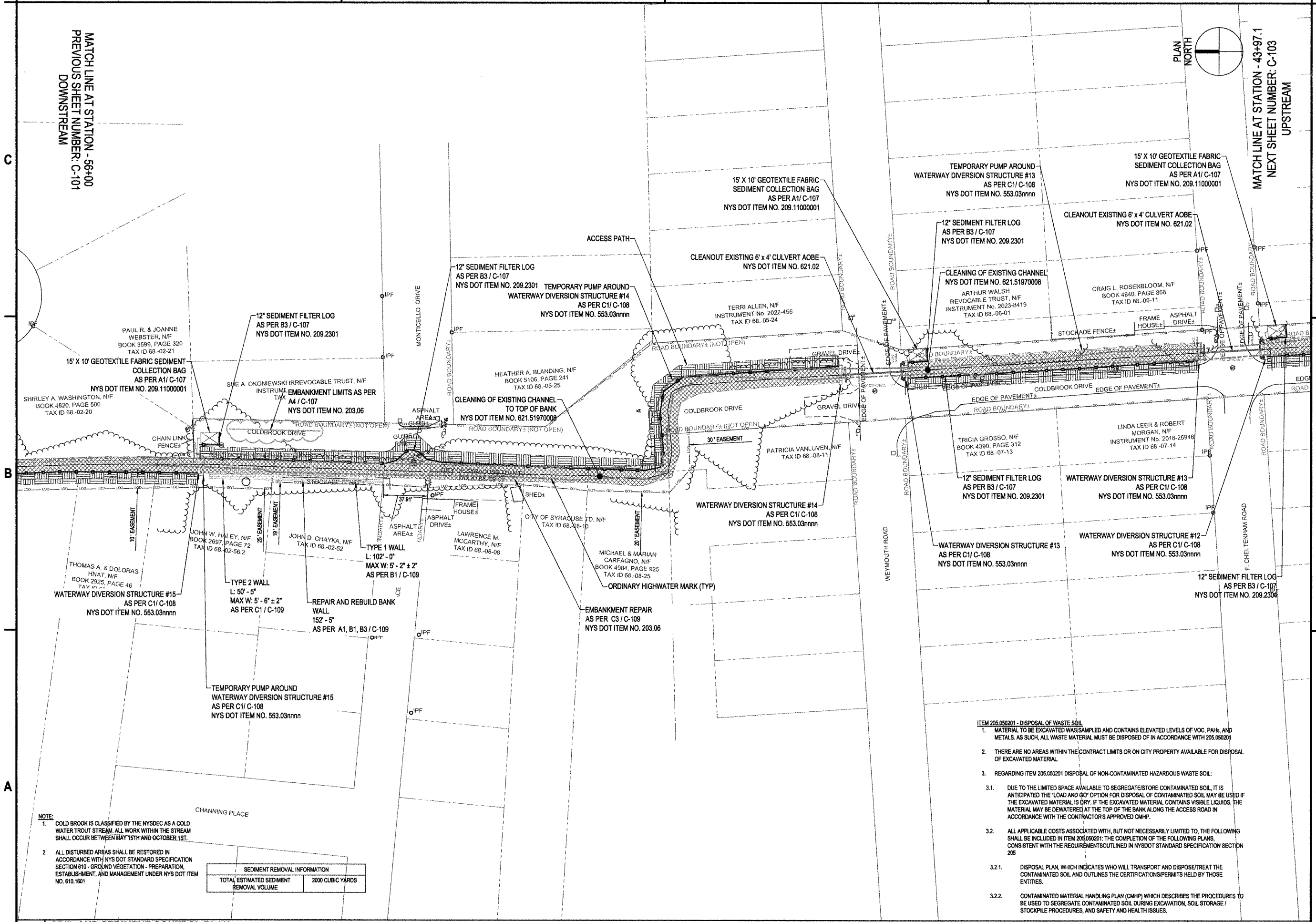
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3

4

MATCH LINE AT STATION - 56+00
PREVIOUS SHEET NUMBER: C-101
DOWNSTREAM

MATCH LINE AT STATION - 43+97.1
NEXT SHEET NUMBER: C-103
UPSTREAM



- NOTE:**
- COLD BROOK IS CLASSIFIED BY THE NYSDEC AS A COLD WATER TROUT STREAM. ALL WORK WITHIN THE STREAM SHALL OCCUR BETWEEN MAY 15TH AND OCTOBER 1ST.
 - ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION SECTION 810 - GROUND VEGETATION - PREPARATION, ESTABLISHMENT, AND MANAGEMENT UNDER NYS DOT ITEM NO. 810.1801

SEDIMENT REMOVAL INFORMATION	
TOTAL ESTIMATED SEDIMENT REMOVAL VOLUME	2000 CUBIC YARDS

- ITEM 205.050201 - DISPOSAL OF WASTE SOIL**
- MATERIAL TO BE EXCAVATED WAS SAMPLED AND CONTAINS ELEVATED LEVELS OF VOC, PAHs, AND METALS. AS SUCH, ALL WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH 205.050201
 - THERE ARE NO AREAS WITHIN THE CONTRACT LIMITS OR ON CITY PROPERTY AVAILABLE FOR DISPOSAL OF EXCAVATED MATERIAL.
 - REGARDING ITEM 205.050201 DISPOSAL OF NON-CONTAMINATED HAZARDOUS WASTE SOIL:
 - DUE TO THE LIMITED SPACE AVAILABLE TO SEGREGATE/STORE CONTAMINATED SOIL, IT IS ANTICIPATED THE "LOAD AND GO" OPTION FOR DISPOSAL OF CONTAMINATED SOIL MAY BE USED IF THE EXCAVATED MATERIAL IS DRY. IF THE EXCAVATED MATERIAL CONTAINS VISIBLE LIQUIDS, THE MATERIAL MAY BE DEWATERED AT THE TOP OF THE BANK ALONG THE ACCESS ROAD IN ACCORDANCE WITH THE CONTRACTORS APPROVED CMHP.
 - ALL APPLICABLE COSTS ASSOCIATED WITH, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHALL BE INCLUDED IN ITEM 205.050201: THE COMPLETION OF THE FOLLOWING PLANS, CONSISTENT WITH THE REQUIREMENTS OUTLINED IN NYS DOT STANDARD SPECIFICATION SECTION 295
 - DISPOSAL PLAN, WHICH INDICATES WHO WILL TRANSPORT AND DISPOSE/TREAT THE CONTAMINATED SOIL AND OUTLINES THE CERTIFICATIONS/PERMITS HELD BY THOSE ENTITIES.
 - CONTAMINATED MATERIAL HANDLING PLAN (CMHP) WHICH DESCRIBES THE PROCEDURES TO BE USED TO SEGREGATE CONTAMINATED SOIL DURING EXCAVATION, SOIL STORAGE / STOCKPILE PROCEDURES, AND SAFETY AND HEALTH ISSUES.



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Fax: 315-455-9667
www.cscos.com



**COLD BROOK SEDIMENT REMOVAL
AND CHANNEL WALL REPAIRS
GENERAL SEWER SERVICES
AGREEMENT WORK ORDER #5
ONONDAGA COUNTY, NY**

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 119.431.006
DATE: MAY 2024
DRAWN BY: M. GALLEGOS
DESIGNED BY: E. AVERSA, P.E.
CHECKED BY:

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7208 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

CIVIL AND SEDIMENT CONTROL PLAN

C-102

May 15, 2024 - 3:28pm
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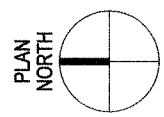
A1 CIVIL AND SEDIMENT CONTROL PLAN
SCALE: 1" = 40'

1

2

3

4



C&S Engineers, Inc.
 499 Col. Eileen Collins Blvd.
 Syracuse, New York 13212
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**COLD BROOK SEDIMENT REMOVAL
 AND CHANNEL WALL REPAIRS
 GENERAL SEWER SERVICES
 AGREEMENT WORK ORDER #5
 ONONDAGA COUNTY, NY**

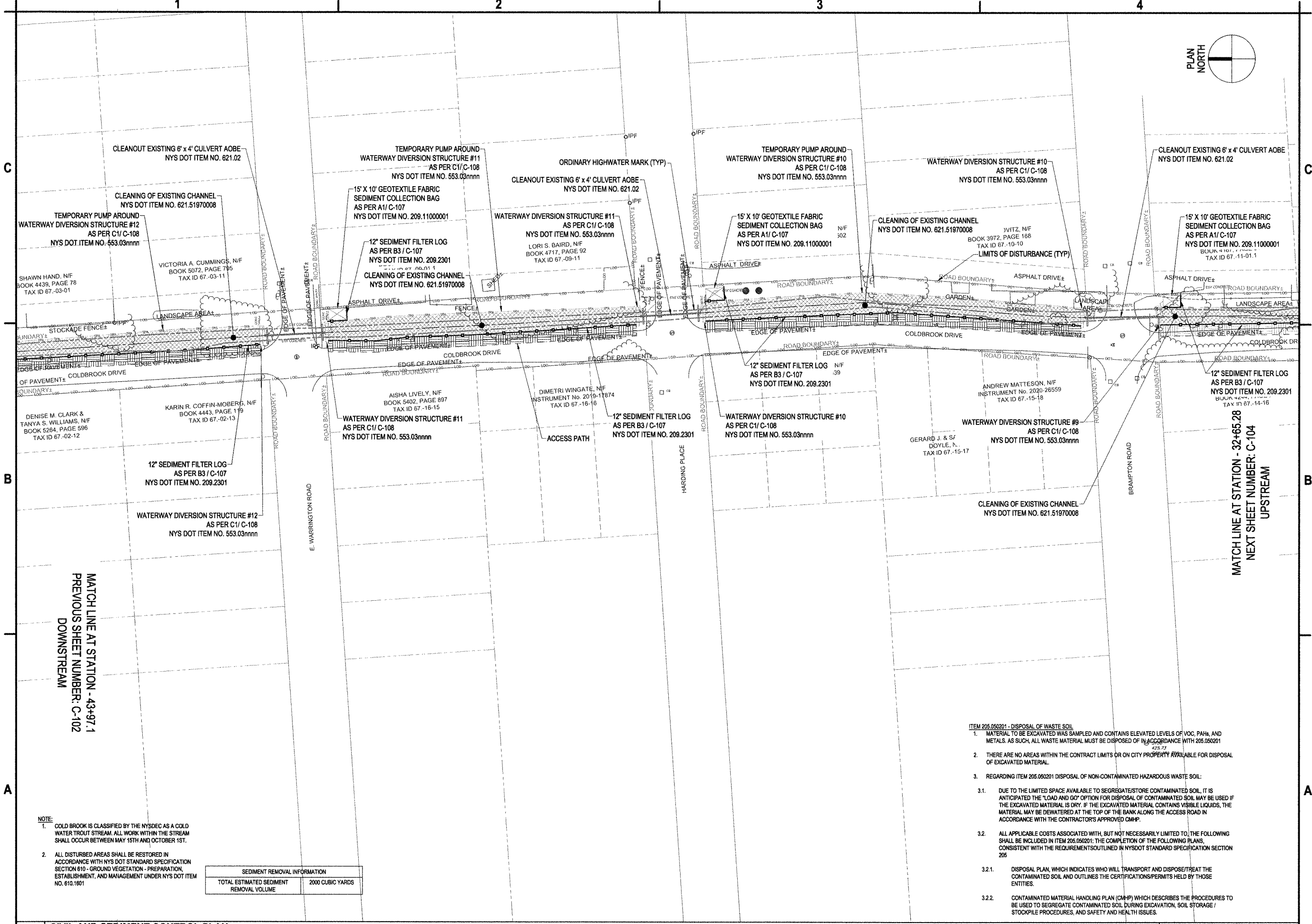
MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO:	119.431.006
DATE:	MAY 2024
DRAWN BY:	M. GALLEGOS
DESIGNED BY:	E. AVERSA, P.E.
CHECKED BY:	
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7206 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW	

CIVIL AND SEDIMENT CONTROL PLAN

C-103

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MATCH LINE AT STATION - 43+97.1
 PREVIOUS SHEET NUMBER: C-102
 DOWNSTREAM

MATCH LINE AT STATION - 32+65.28
 NEXT SHEET NUMBER: C-104
 UPSTREAM

NOTE:
 1. COLD BROOK IS CLASSIFIED BY THE NYSDEC AS A COLD WATER TROUT STREAM. ALL WORK WITHIN THE STREAM SHALL OCCUR BETWEEN MAY 15TH AND OCTOBER 1ST.
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SEDIMENT REMOVAL INFORMATION	
TOTAL ESTIMATED SEDIMENT REMOVAL VOLUME	2000 CUBIC YARDS

- ITEM 205.050201 - DISPOSAL OF WASTE SOIL**
- MATERIAL TO BE EXCAVATED WAS SAMPLED AND CONTAINS ELEVATED LEVELS OF VOC, PAHs, AND METALS. AS SUCH, ALL WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH 205.050201 428.73
 - THERE ARE NO AREAS WITHIN THE CONTRACT LIMITS OR ON CITY PROPERTY AVAILABLE FOR DISPOSAL OF EXCAVATED MATERIAL.
 - REGARDING ITEM 205.050201 DISPOSAL OF NON-CONTAMINATED HAZARDOUS WASTE SOIL:
 - DUE TO THE LIMITED SPACE AVAILABLE TO SEGREGATE/STORE CONTAMINATED SOIL, IT IS ANTICIPATED THE "LOAD AND GO" OPTION FOR DISPOSAL OF CONTAMINATED SOIL MAY BE USED IF THE EXCAVATED MATERIAL IS DRY. IF THE EXCAVATED MATERIAL CONTAINS VISIBLE LIQUIDS, THE MATERIAL MAY BE DEWATERED AT THE TOP OF THE BANK ALONG THE ACCESS ROAD IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED CMHP.
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 - DISPOSAL PLAN, WHICH INDICATES WHO WILL TRANSPORT AND DISPOSE/TREAT THE CONTAMINATED SOIL AND OUTLINES THE CERTIFICATIONS/PERMITS HELD BY THOSE ENTITIES.
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A1 CIVIL AND SEDIMENT CONTROL PLAN
 SCALE: 1"=40'



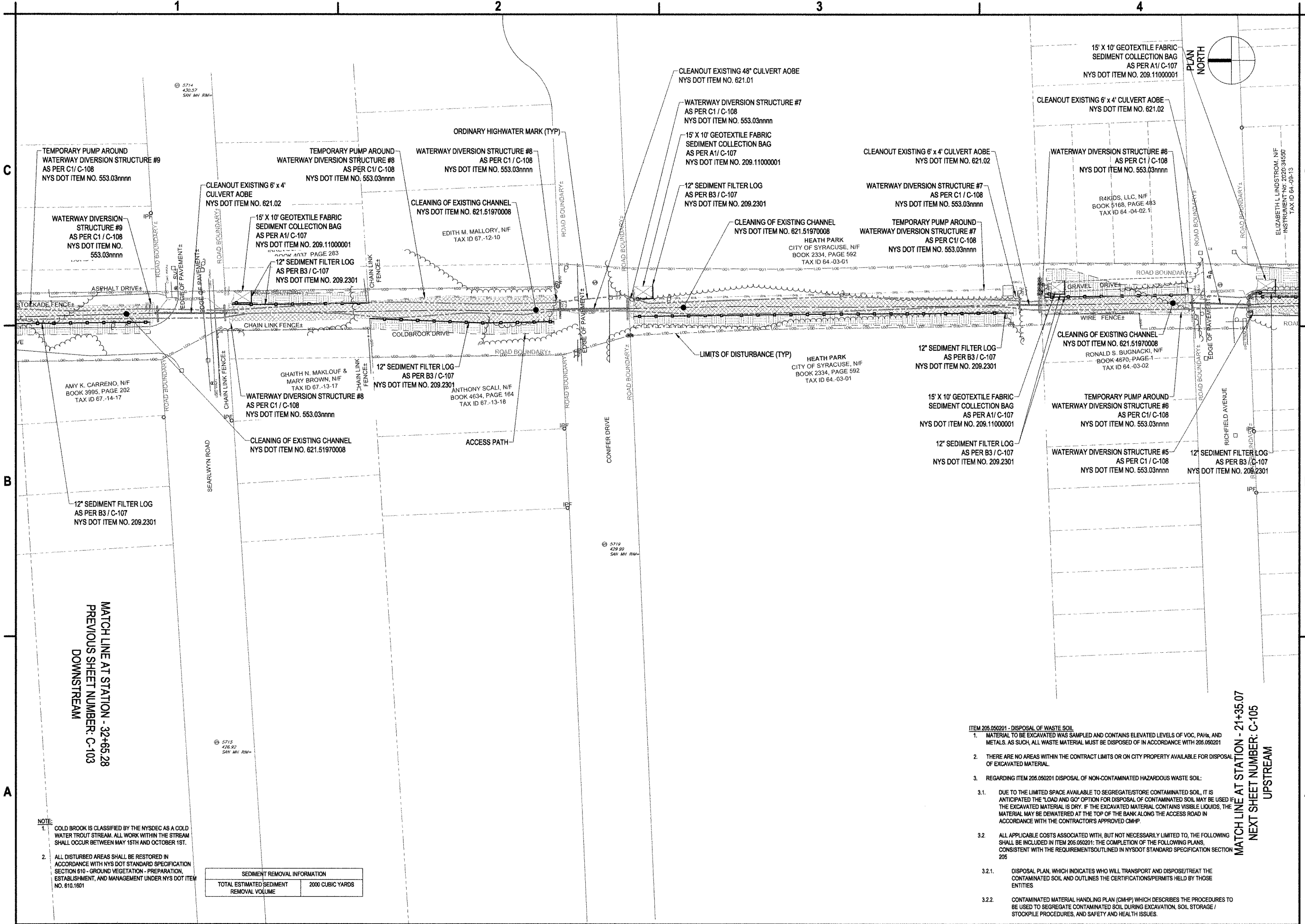
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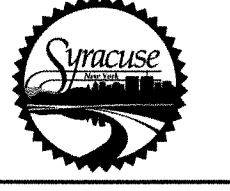
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 Fax: 315-455-9667
 www.cscos.com



**COLD BROOK SEDIMENT REMOVAL
 AND CHANNEL WALL REPAIRS
 GENERAL SEWER SERVICES
 AGREEMENT WORK ORDER #5
 ONONDAGA COUNTY, NY**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 119.431.006		
DATE: MAY 2024		
DRAWN BY: M. GALLEGOS		
DESIGNED BY: E. AVERSA, P.E.		
CHECKED BY:		

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7208 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

CIVIL AND SEDIMENT CONTROL PLAN

C-104

MATCH LINE AT STATION - 32+65.28
 PREVIOUS SHEET NUMBER: C-103
 DOWNSSTREAM

MATCH LINE AT STATION - 21+35.07
 NEXT SHEET NUMBER: C-105
 UPSTREAM

NOTE:
 1. COLD BROOK IS CLASSIFIED BY THE NYSDEC AS A COLD WATER TROUT STREAM. ALL WORK WITHIN THE STREAM SHALL OCCUR BETWEEN MAY 15TH AND OCTOBER 1ST.
 2. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION SECTION 610 - GROUND VEGETATION - PREPARATION, ESTABLISHMENT, AND MANAGEMENT UNDER NYS DOT ITEM NO. 610.1601

SEDIMENT REMOVAL INFORMATION	
TOTAL ESTIMATED SEDIMENT REMOVAL VOLUME	2000 CUBIC YARDS

- ITEM 205.050201 - DISPOSAL OF WASTE SOIL
- MATERIAL TO BE EXCAVATED WAS SAMPLED AND CONTAINS ELEVATED LEVELS OF VOC, PAHs, AND METALS. AS SUCH, ALL WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH 205.050201
 - THERE ARE NO AREAS WITHIN THE CONTRACT LIMITS OR ON CITY PROPERTY AVAILABLE FOR DISPOSAL OF EXCAVATED MATERIAL.
 - REGARDING ITEM 205.050201 DISPOSAL OF NON-CONTAMINATED HAZARDOUS WASTE SOIL:
 - DUE TO THE LIMITED SPACE AVAILABLE TO SEGREGATE/STORE CONTAMINATED SOIL, IT IS ANTICIPATED THE "LOAD AND GO" OPTION FOR DISPOSAL OF CONTAMINATED SOIL MAY BE USED IF THE EXCAVATED MATERIAL IS DRY. IF THE EXCAVATED MATERIAL CONTAINS VISIBLE LIQUIDS, THE MATERIAL MAY BE DEWATERED AT THE TOP OF THE BANK ALONG THE ACCESS ROAD IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED CMHP.
 - ALL APPLICABLE COSTS ASSOCIATED WITH, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHALL BE INCLUDED IN ITEM 205.050201: THE COMPLETION OF THE FOLLOWING PLANS, CONSISTENT WITH THE REQUIREMENTS OUTLINED IN NYS DOT STANDARD SPECIFICATION SECTION 205
 - DISPOSAL PLAN, WHICH INDICATES WHO WILL TRANSPORT AND DISPOSE/TREAT THE CONTAMINATED SOIL AND OUTLINES THE CERTIFICATIONS/PERMITS HELD BY THOSE ENTITIES
 - CONTAMINATED MATERIAL HANDLING PLAN (CMHP) WHICH DESCRIBES THE PROCEDURES TO BE USED TO SEGREGATE CONTAMINATED SOIL DURING EXCAVATION, SOIL STORAGE / STOCKPILE PROCEDURES, AND SAFETY AND HEALTH ISSUES.

May 15, 2024 - 3:24pm
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 City of Syracuse

A1 CIVIL AND SEDIMENT CONTROL PLAN

SCALE: 1"=40'

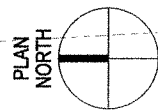


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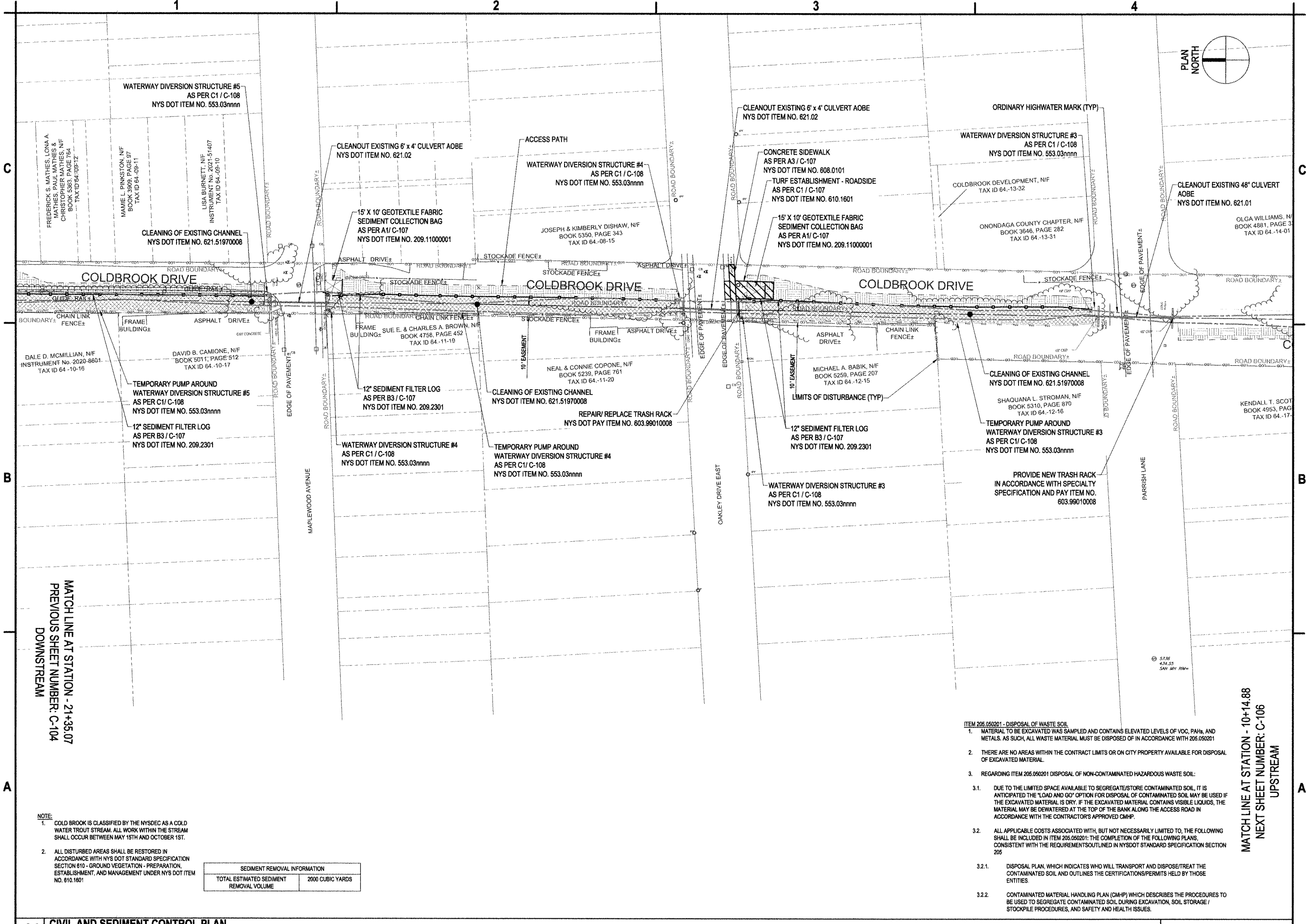
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 AND CHANNEL WALL REPAIRS
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**CIVIL AND SEDIMENT
 CONTROL PLAN**

C-105

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MATCH LINE AT STATION - 21+35.07
 PREVIOUS SHEET NUMBER: C-104
 DOWNSTREAM

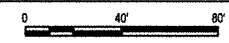
MATCH LINE AT STATION - 10+14.88
 NEXT SHEET NUMBER: C-106
 UPSTREAM

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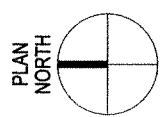
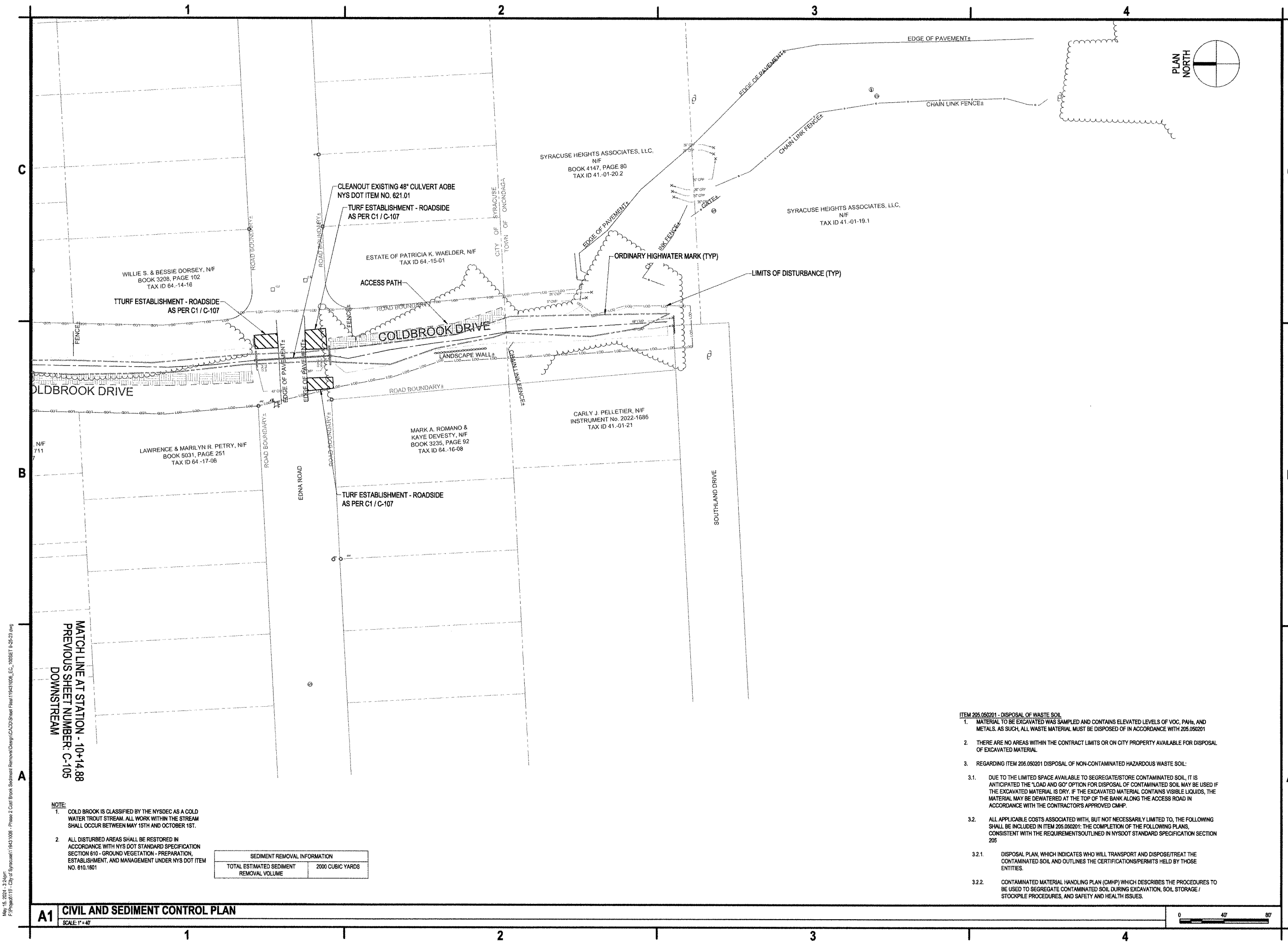
SEDIMENT REMOVAL INFORMATION	
TOTAL ESTIMATED SEDIMENT REMOVAL VOLUME	2000 CUBIC YARDS

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A1 CIVIL AND SEDIMENT CONTROL PLAN
 SCALE: 1"=40'



May 15, 2024 - 3:24pm
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CIVIL AND SEDIMENT CONTROL PLAN

C-106

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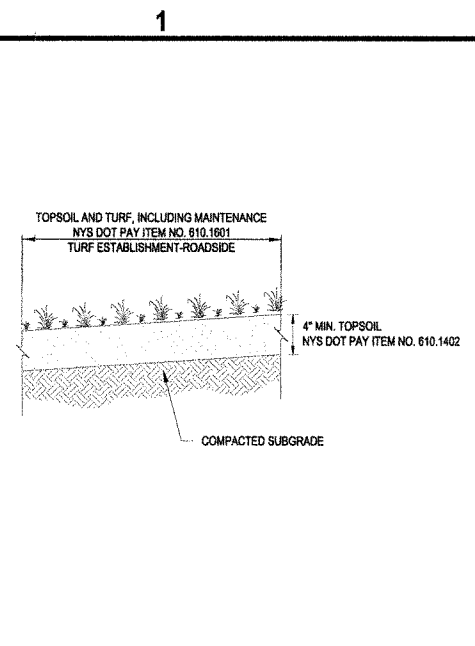
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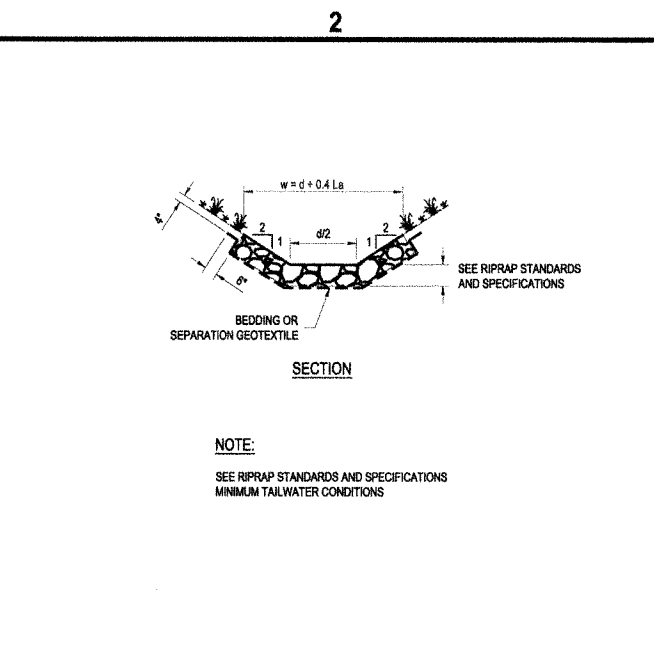
SEDIMENT REMOVAL INFORMATION	
TOTAL ESTIMATED SEDIMENT REMOVAL VOLUME	2000 CUBIC YARDS

A1 CIVIL AND SEDIMENT CONTROL PLAN
 SCALE: 1"=40'

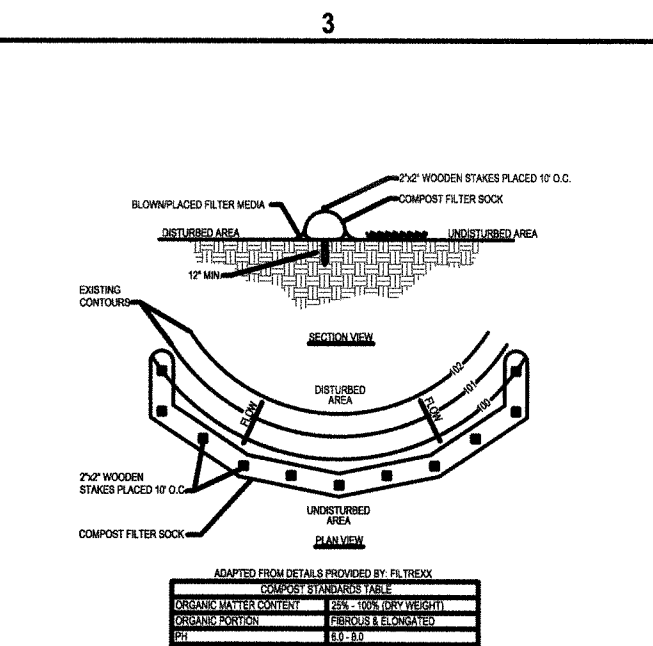
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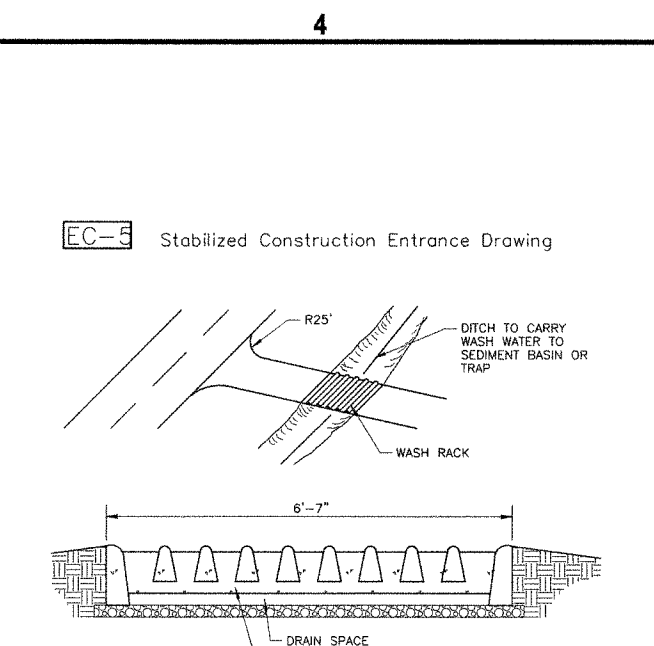
C1 TURF ESTABLISHMENT - ROADSIDE DETAIL
SCALE: NOT TO SCALE



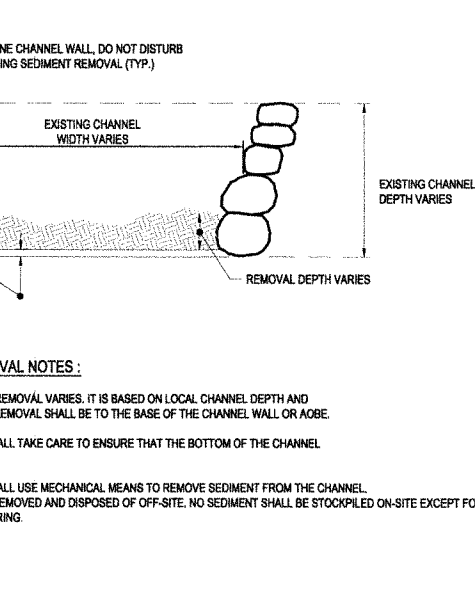
C2 RIP RAP OUTLET PROTECTION DETAIL
SCALE: NOT TO SCALE



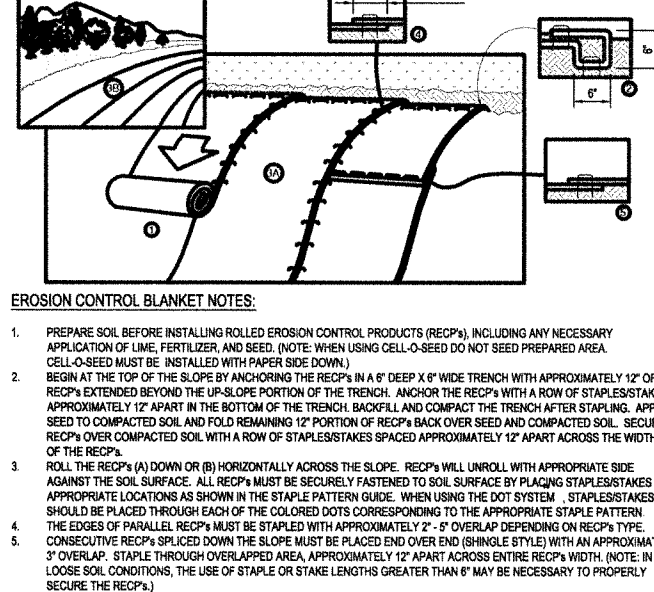
B3 SEDIMENT FILTER LOG DETAIL
SCALE: NOT TO SCALE



B4 STABILIZED CONSTRUCTION ENTRANCE DETAIL
SCALE: NOT TO SCALE



B1 CHANNEL SEDIMENT REMOVAL DETAIL
SCALE: NOT TO SCALE



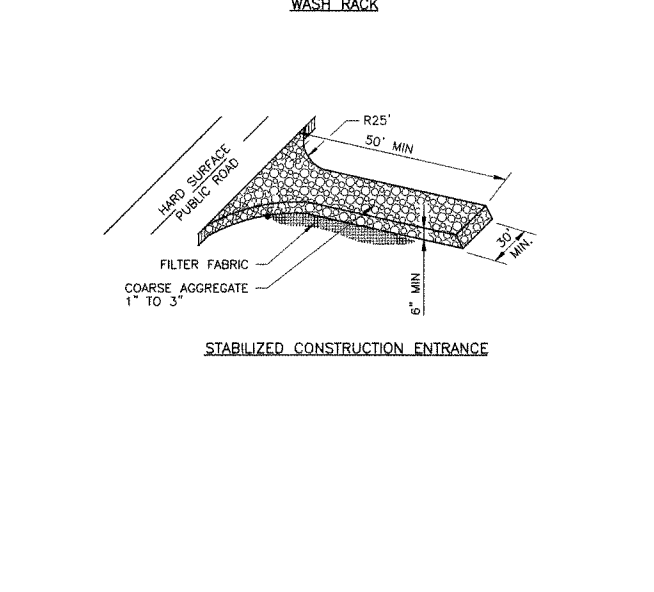
B2 EROSION CONTROL BLANKET DETAIL
SCALE: NOT TO SCALE

COMPOST STANDARDS TABLE

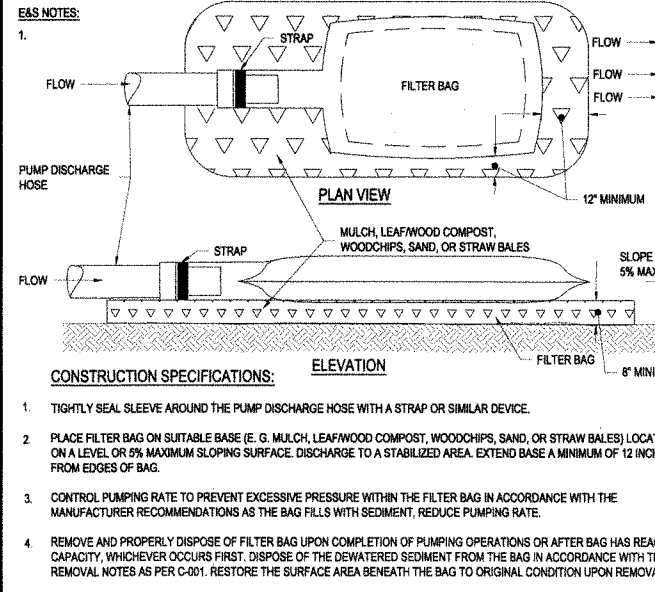
ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT)
ORGANIC PORTION	FIBROUS & ELONGATED
PH	6.0 - 8.0
MOISTURE CONTENT	50% - 65%
PARTICLE SIZE	100% PASSING A 1\"/>

1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 5.1. COMPOST SHALL MEET THE STANDARDS LISTED ON OF TABLE 5.2.
 2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE E.2). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED 30%. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
 3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
 4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK & DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 5. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
 6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

B3 SEDIMENT FILTER LOG DETAIL
SCALE: NOT TO SCALE



A4 EMBANKMENT DETAIL
SCALE: NOT TO SCALE



A1 FILTER BAG DETAIL
SCALE: NOT TO SCALE

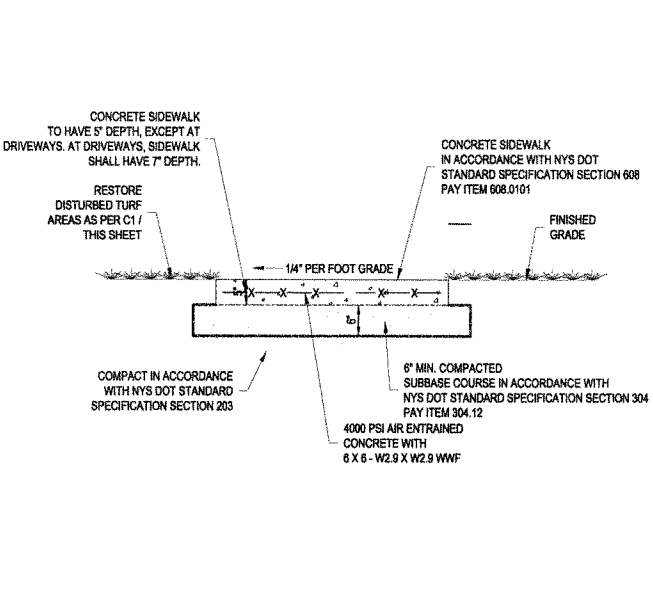
CONSTRUCTION SPECIFICATIONS:

5. USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

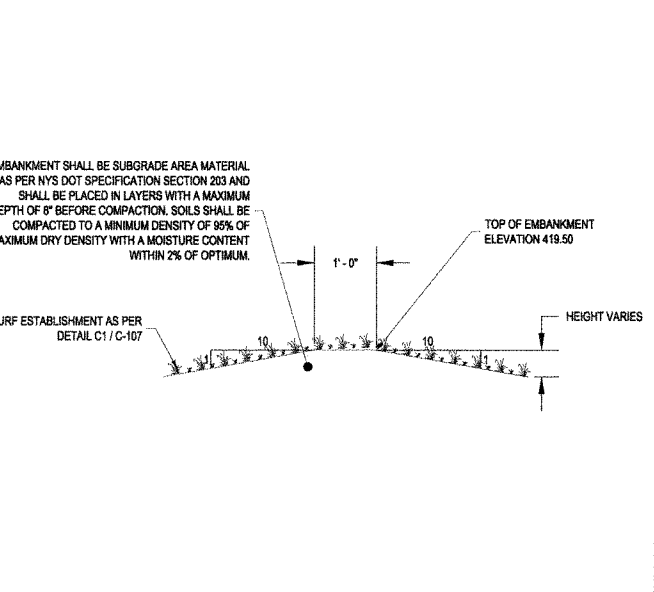
GRAB TENSILE	250 LB	ASTM D-4832
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/SQFT	ASTM D-4481
PERMITTIVITY (SEC)	1.2 PER SEC	ASTM D-4481
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15-0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4832

6. REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

A3 CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE



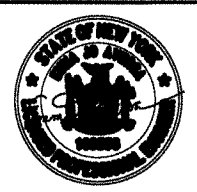
A3 CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE



A4 EMBANKMENT DETAIL
SCALE: NOT TO SCALE



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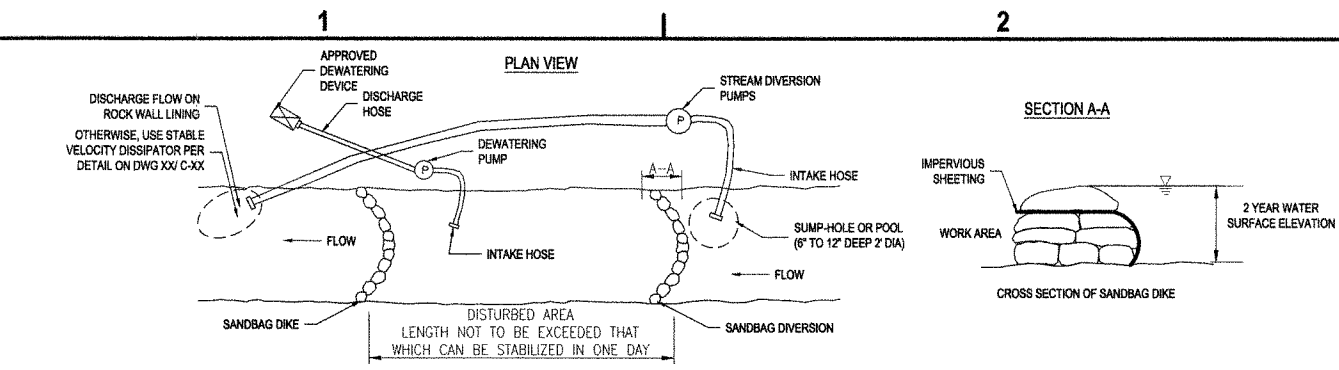
COLD BROOK SEDIMENT REMOVAL AND CHANNEL WALL REPAIRS AND GENERAL SEWER SERVICES AGREEMENT WORK ORDER #5 ONONDAGA COUNTY, NY

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PROJECT NO: 119.431.006		
DATE: MAY 2024		
DRAWN BY: M. GALLEGOS		
DESIGNED BY: E. AVERSA, P.E.		
CHECKED BY: K. MAZIARZ		

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CIVIL AND SEDIMENT CONTROL DETAILS

C-107

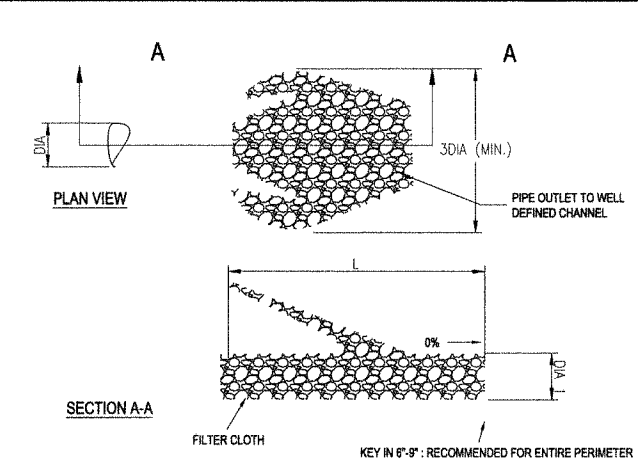


DESCRIPTION:
 ALL WORK SHALL BE IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION SECTION 553. WORK GENERALLY INCLUDES THE CONSTRUCTION OF ALL WATERWAY DIVERSION STRUCTURES TO DIVERT THE FLOW OF WATER INCLUDING BYPASS PUMPING.

TEMPORARY PUMP AROUND NOTES:

1. THE CONTRACTOR SHOULD STAY WITHIN THE LIMITS OF THE DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHENEVER POSSIBLE.
2. THE CONTRACTOR SHOULD ONLY BEGIN WORK IN AN AREA WHICH CAN BE COMPLETED BY THE END OF THE DAY. AT THE END OF EACH WORKDAY, THE WORK AREA MUST BE STABILIZED AND THE PUMP AROUND REMOVED.
3. SANDBAG DIKES SHOULD BE SITUATED AT THE ENDS OF THE WORK AREA AS SHOWN ON THE PLANS, AND CLEAN STREAM FLOW SHOULD BE PUMPED AROUND THE WORK AREA. THE PUMP SHOULD DISCHARGE ONTO THE ROCK WALL LINING OF THE STREAM WHENEVER POSSIBLE. IF THIS IS NOT POSSIBLE, THEN FLOW SHOULD DISCHARGE ONTO A STABLE VELOCITY DISSIPATOR MADE OF RIPRAP OR SANDBAGS.
4. WATER FROM THE WORK AREA SHOULD BE PUMPED TO A SEDIMENT FILTERING MEASURE SUCH AS A DEWATERING BASIN, SEDIMENT BAG, OR OTHER APPROVED SOURCE. THE MEASURE SHOULD BE LOCATED SUCH THAT THE WATER DRAINS DOWNSTREAM OF THE WORK AREA.
5. FOR STREAMWORK REPAIR PROJECTS LONGER THAN 500 LINEAR FEET, MULTIPLE WORK AREAS SHALL BE ESTABLISHED IN SUCCESSION. ONCE AN AREA IS COMPLETED AND STABILIZED, THE CLEAN WATER DIKE SHOULD BE REMOVED. AFTER THE FIRST SEDIMENT FLUSH, A NEW CLEAN WATER DIKE WOULD BE ESTABLISHED FROM THE OLD SEDIMENT DIKE. FINALLY, UPON ESTABLISHMENT OF A NEW SEDIMENT DIKE BELOW THE OLD ONE, THE OLD SEDIMENT DIKE SHOULD BE REMOVED.
6. A PUMP AROUND MUST BE INSTALLED ON ANY TRIBUTARY OR STORM DRAIN OUTFALL WHICH CONTRIBUTES BASEFLOW TO THE WORK AREA. THIS SHOULD BE ACCOMPLISHED BY LOCATING A SANDBAG DIKE AT THE DOWNSTREAM END OF THE TRIBUTARY OR STORM DRAIN OUTFALL AND PUMPING THE STREAM FLOW AROUND THE WORK AREA. THIS WATER SHOULD DISCHARGE ONTO THE SAME VELOCITY DISSIPATOR USED FOR THE MAIN STEM PUMP AROUND.

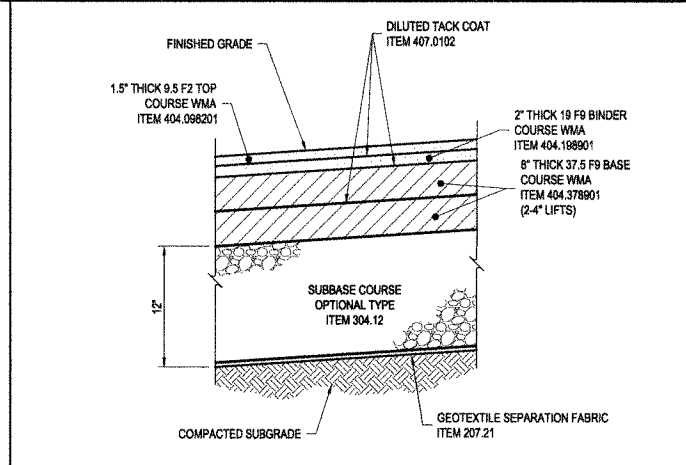
C1 TEMPORARY WATERWAY DIVERSION STRUCTURE DETAIL
 SCALE: NOT TO SCALE



OUTLET PROTECTION DETAIL NOTES:

1. APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, GABION BASKET, OR CONCRETE
2. L IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4
3. DIA 1 = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES

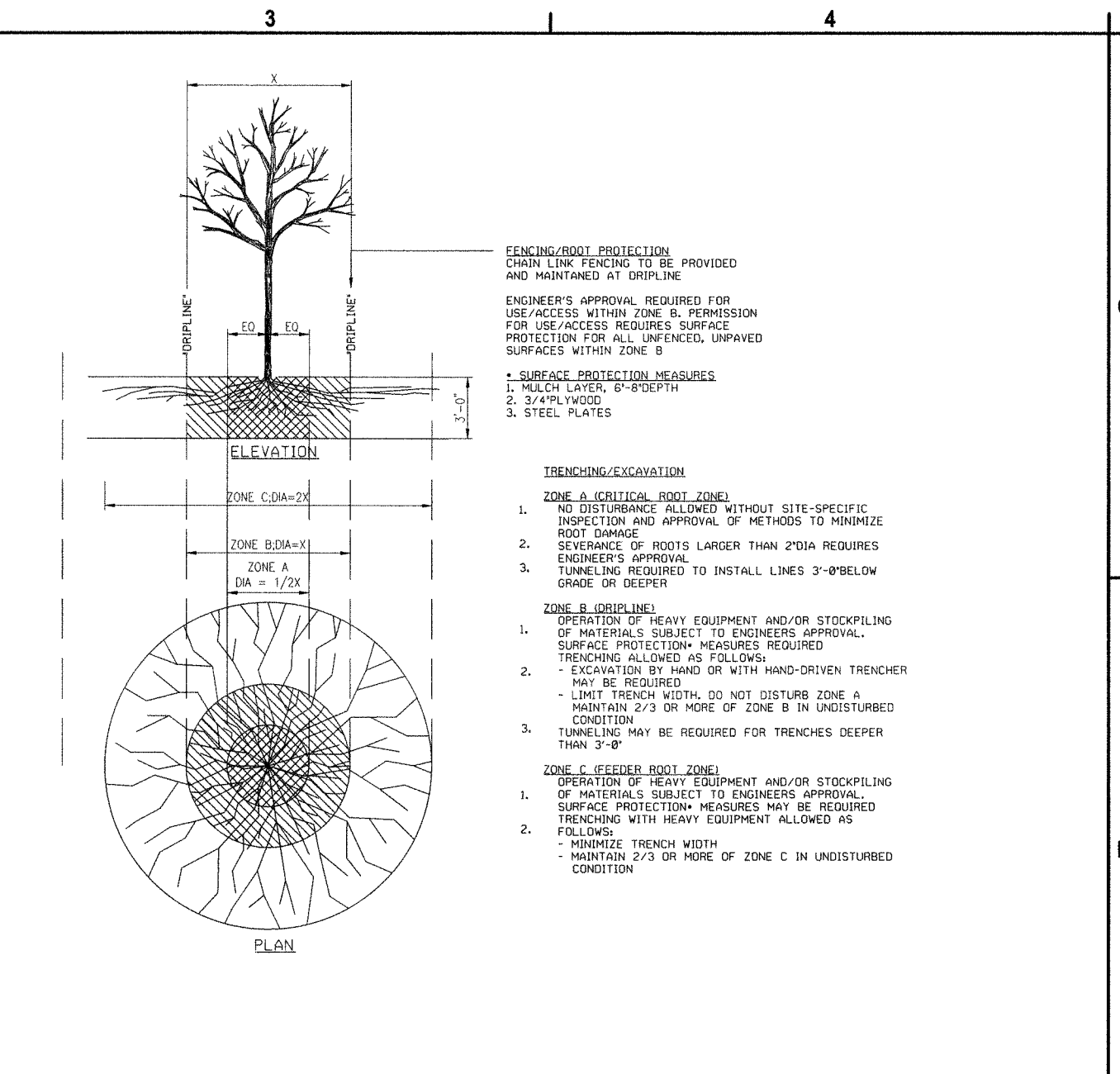
B1 OUTLET PROTECTION DETAIL
 SCALE: NOT TO SCALE



NOTE:

1. USE THIS DETAIL IN AREAS WHERE NO EXISTING PCC FOUNDATION IS ENCOUNTERED.

B2 TYPICAL ASPHALT RESTORATION DETAIL
 SCALE: NOT TO SCALE



FENCING/ROOT PROTECTION
 CHAIN LINK FENCING TO BE PROVIDED AND MAINTAINED AT DRIPLINE

ENGINEER'S APPROVAL REQUIRED FOR USE/ACCESS WITHIN ZONE B. PERMISSION FOR USE/ACCESS REQUIRES SURFACE PROTECTION FOR ALL UNFENCED, UNPAVED SURFACES WITHIN ZONE B

SURFACE PROTECTION MEASURES

1. MULCH LAYER, 6"-8" DEPTH
2. 3/4" PLYWOOD
3. STEEL PLATES

TRENCHING/EXCAVATION

ZONE A (CRITICAL ROOT ZONE)

1. NO DISTURBANCE ALLOWED WITHOUT SITE-SPECIFIC INSPECTION AND APPROVAL OF METHODS TO MINIMIZE ROOT DAMAGE
2. SEVERANCE OF ROOTS LARGER THAN 2" DIA REQUIRES ENGINEER'S APPROVAL
3. TUNNELING REQUIRED TO INSTALL LINES 3'-0" BELOW GRADE OR DEEPER

ZONE B (DRIPLINE)

OPERATION OF HEAVY EQUIPMENT AND/OR STOCKPILING OF MATERIALS SUBJECT TO ENGINEERS APPROVAL. SURFACE PROTECTION MEASURES REQUIRED

TRENCHING ALLOWED AS FOLLOWS:

- EXCAVATION BY HAND OR WITH HAND-DRIVEN TRENCHER MAY BE REQUIRED
- LIMIT TRENCH WIDTH. DO NOT DISTURB ZONE A
- MAINTAIN 2/3 OR MORE OF ZONE B IN UNDISTURBED CONDITION

TUNNELING MAY BE REQUIRED FOR TRENCHES DEEPER THAN 3'-0"

ZONE C (FEEDER ROOT ZONE)

OPERATION OF HEAVY EQUIPMENT AND/OR STOCKPILING OF MATERIALS SUBJECT TO ENGINEERS APPROVAL. SURFACE PROTECTION MEASURES MAY BE REQUIRED

TRENCHING WITH HEAVY EQUIPMENT ALLOWED AS FOLLOWS:

- MINIMIZE TRENCH WIDTH
- MAINTAIN 2/3 OR MORE OF ZONE C IN UNDISTURBED CONDITION

B3 TREE PROTECTION DETAIL
 SCALE: NOT TO SCALE



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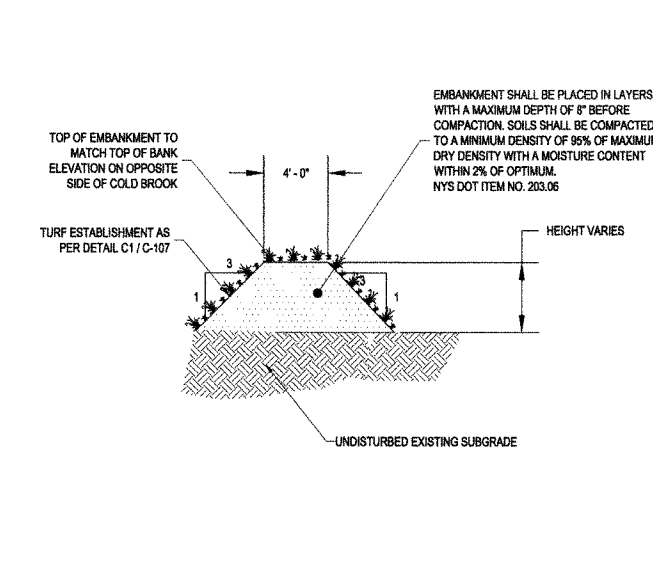
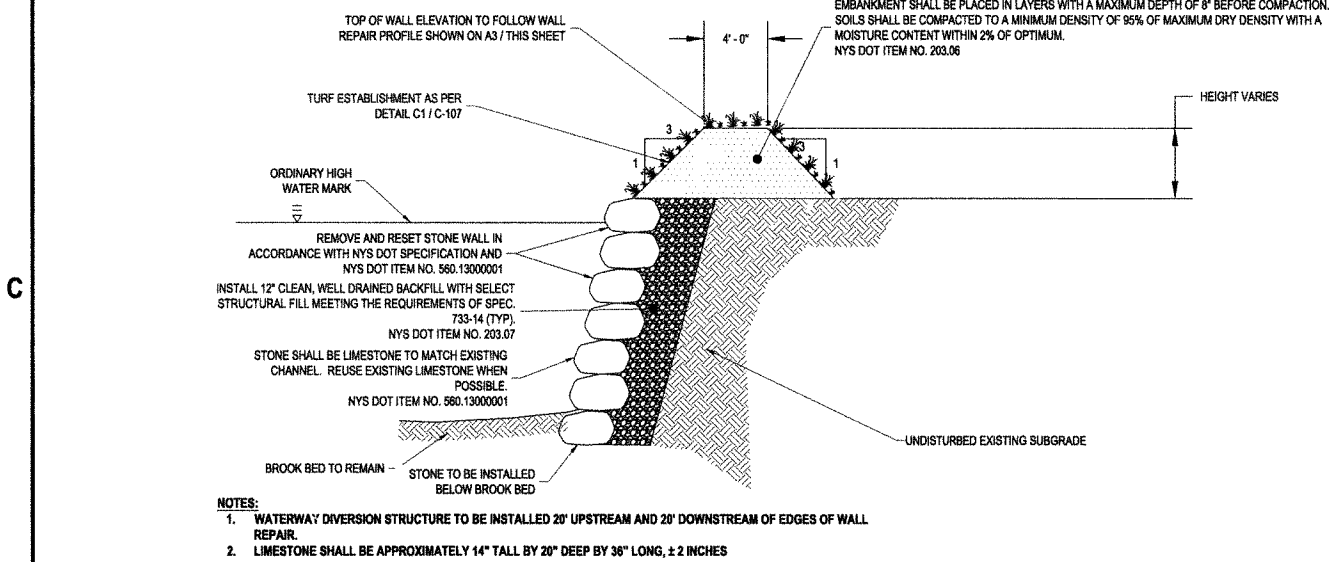
CIVIL AND SEDIMENT CONTROL DETAILS

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2

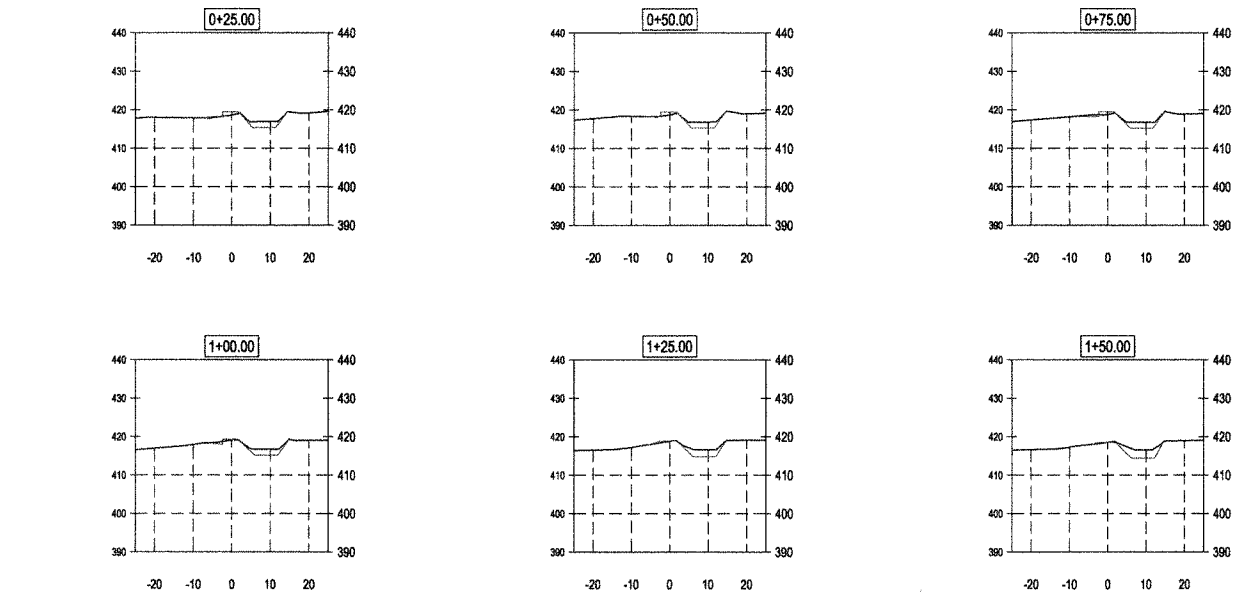
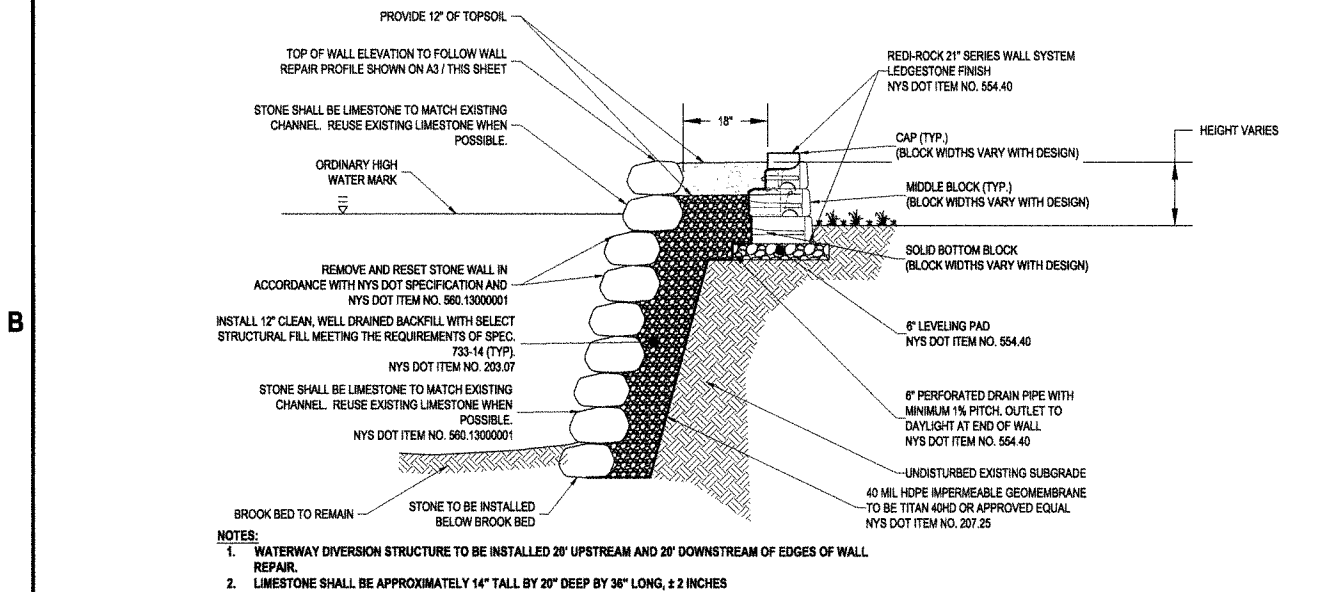
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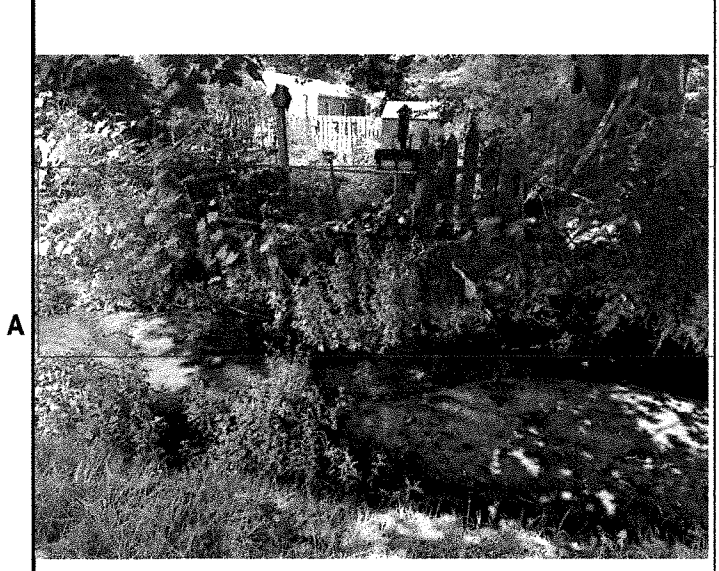
C1 WALL REPAIR DETAIL TYPE 2 - APPROXIMATELY 50 FEET
SCALE: NOT TO SCALE

C3 EMBANKMENT REPAIR DETAIL
SCALE: NOT TO SCALE

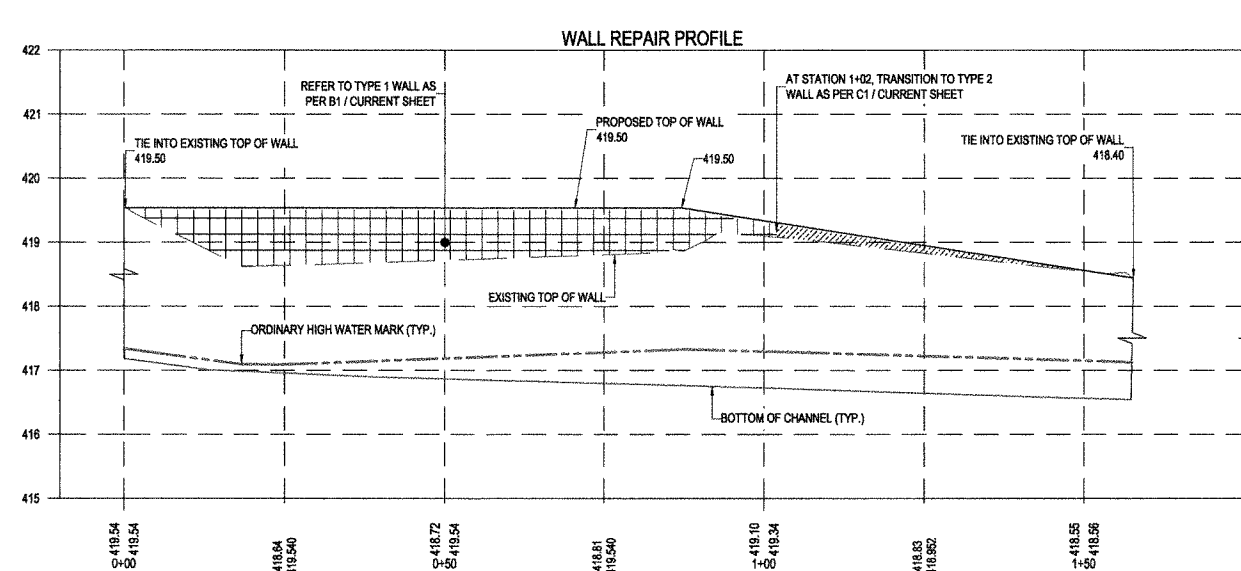


B1 WALL REPAIR DETAIL TYPE 1 - APPROXIMATELY 102 FEET
SCALE: NOT TO SCALE

B3 WALL REPAIR SECTIONS
SCALE: 1"=2'



A1 EXISTING CONDITION CHANNEL WALL
SCALE: NOT TO SCALE



A3 WALL REPAIR PROFILE
SCALE: 1"=15'



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**COLD BROOK SEDIMENT REMOVAL
AND CHANNEL WALL REPAIRS
GENERAL SEWER SERVICES
AGREEMENT WORK ORDER #5
ONONDAGA COUNTY, NY**

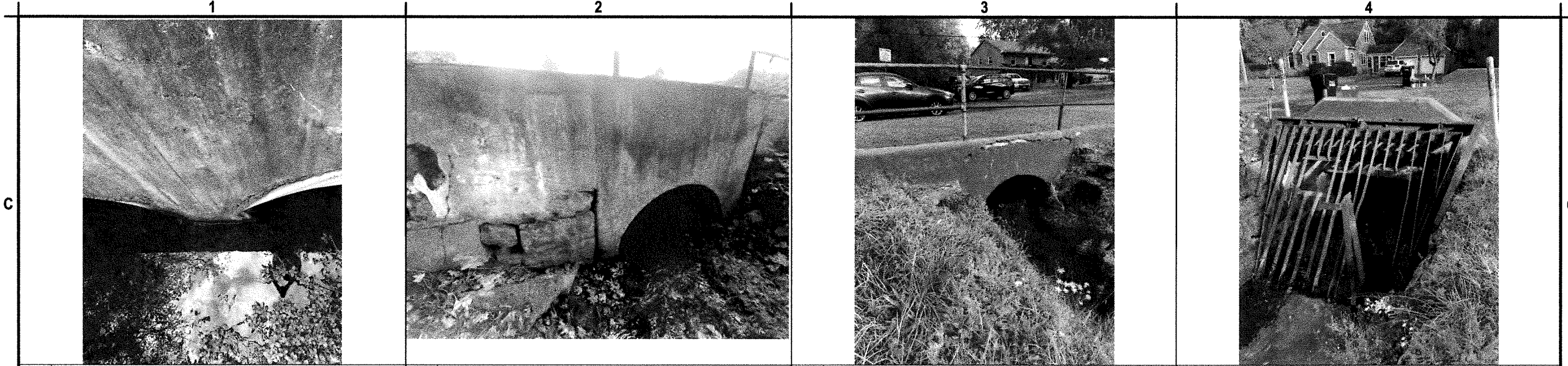
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 119.431.006		
DATE: MAY 2024		
DRAWN BY: M. GALLEGOS		
DESIGNED BY: E. AVERSA, P.E.		
CHECKED BY: K. MAZIARZ		

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**WALL REPAIR
DETAILS**

C-109

May 15, 2024 - 2:28pm P:\projects\119-431-006 - Phase 2 Cold Brook Sediment Removal\Design\CAD\Sheet Files\119431006_C6-DETAILS.dwg

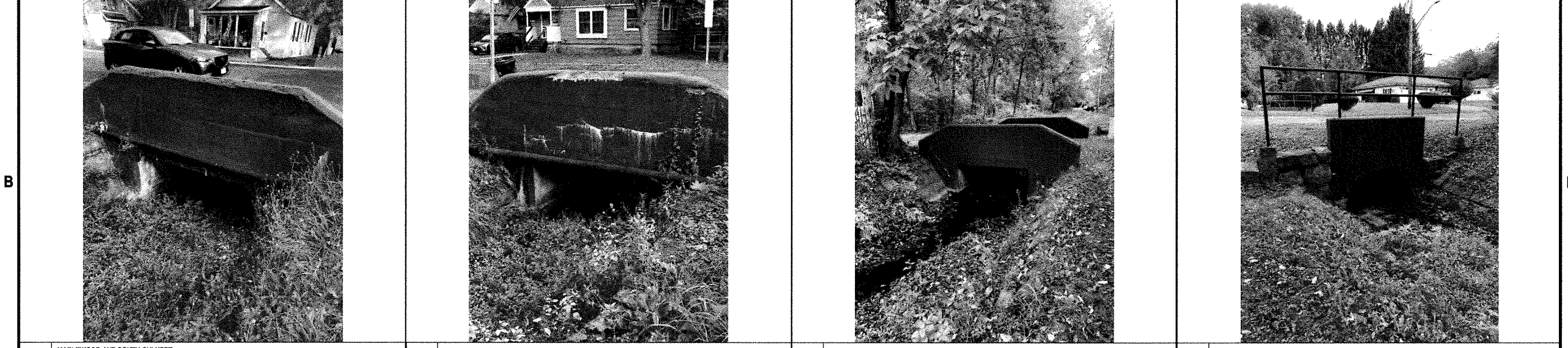


1 SOUTHLAND DRIVE NORTH CULVERT
SCALE: NOT TO SCALE

2 EDNA ROAD SOUTH CULVERT
SCALE: NOT TO SCALE

3 PARISH LANE SOUTH CULVERT
SCALE: NOT TO SCALE

4 OAKLEY DRIVE SOUTH CULVERT
SCALE: NOT TO SCALE

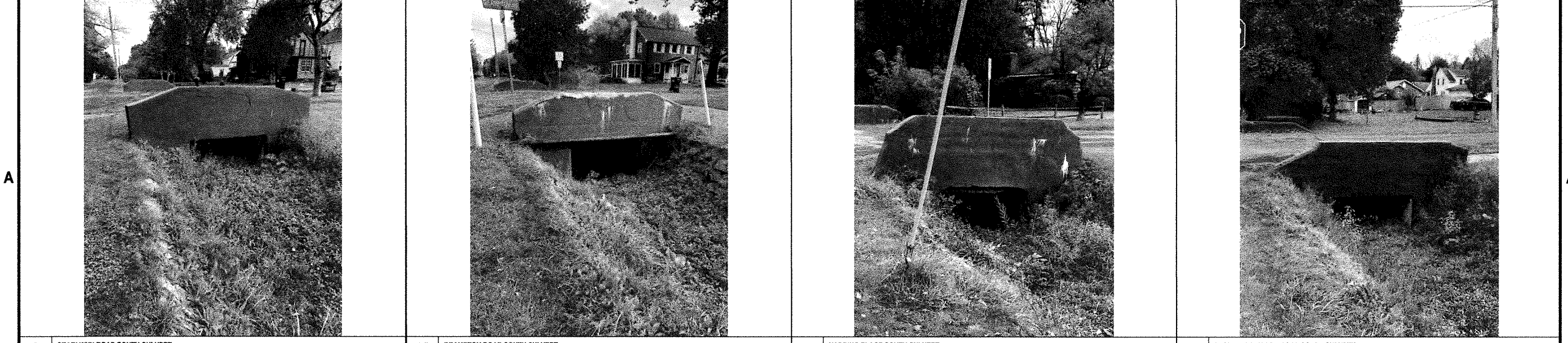


5 MAPLEWOOD AVE SOUTH CULVERT
SCALE: NOT TO SCALE

6 RICHFIELD AVE SOUTH CULVERT
SCALE: NOT TO SCALE

7 RICHFIELD TO CONIFER SOUTH CULVERT
SCALE: NOT TO SCALE

8 CONIFER DRIVE SOUTH CULVERT
SCALE: NOT TO SCALE



9 SEARLWYN ROAD SOUTH CULVERT
SCALE: NOT TO SCALE

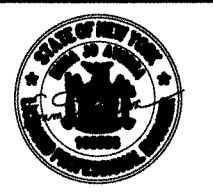
10 BRAMPTON ROAD SOUTH CULVERT
SCALE: NOT TO SCALE

11 HARDING PLACE SOUTH CULVERT
SCALE: NOT TO SCALE

12 EAST WARRINGTON ROAD SOUTH CULVERT
SCALE: NOT TO SCALE



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DRAWN BY:		M. GALLEGOS
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CHECKED BY:		K. MAZIARZ

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**CULVERT CLEANOUT
DETAILS**

C-110



13 CHELTENHAM ROAD SOUTH CULVERT
SCALE: NOT TO SCALE



14 WEYMOUTH ROAD SOUTH CULVERT
SCALE: NOT TO SCALE



15 SYRACUSE ACADEMY OF SCIENCE CULVERT
SCALE: NOT TO SCALE



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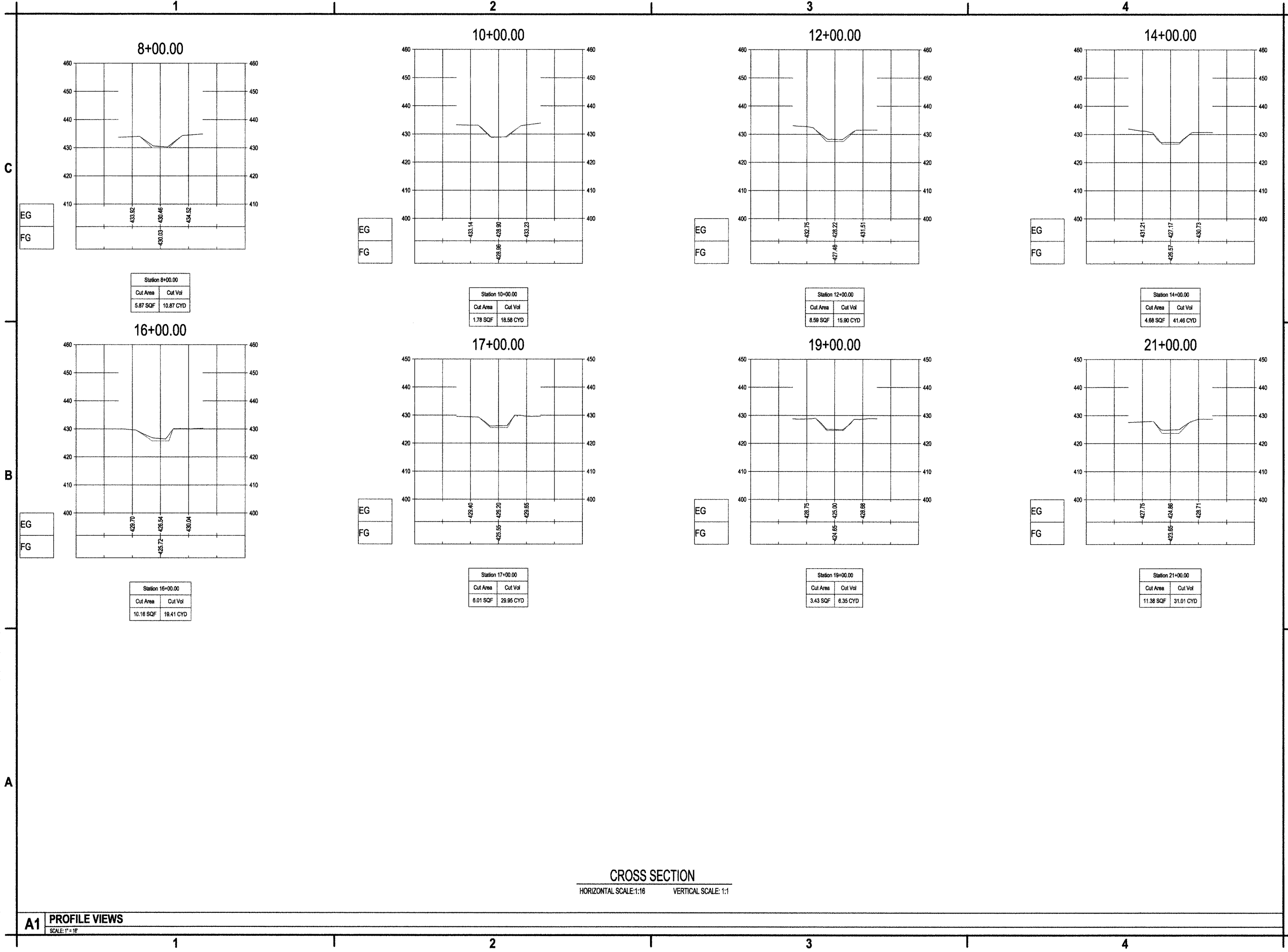
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**CULVERT CLEANOUT
DETAILS**

C-111

May 15, 2024 - 3:25pm
 F:\projects\119 - City of Syracuse\119431006 - Phase 2 Cold Brook Sediment Removal\Design\Drawings\119431006_CS_2008E1\PROFILES\9-25-24.dwg



A1 PROFILE VIEWS
SCALE: 1" = 16'



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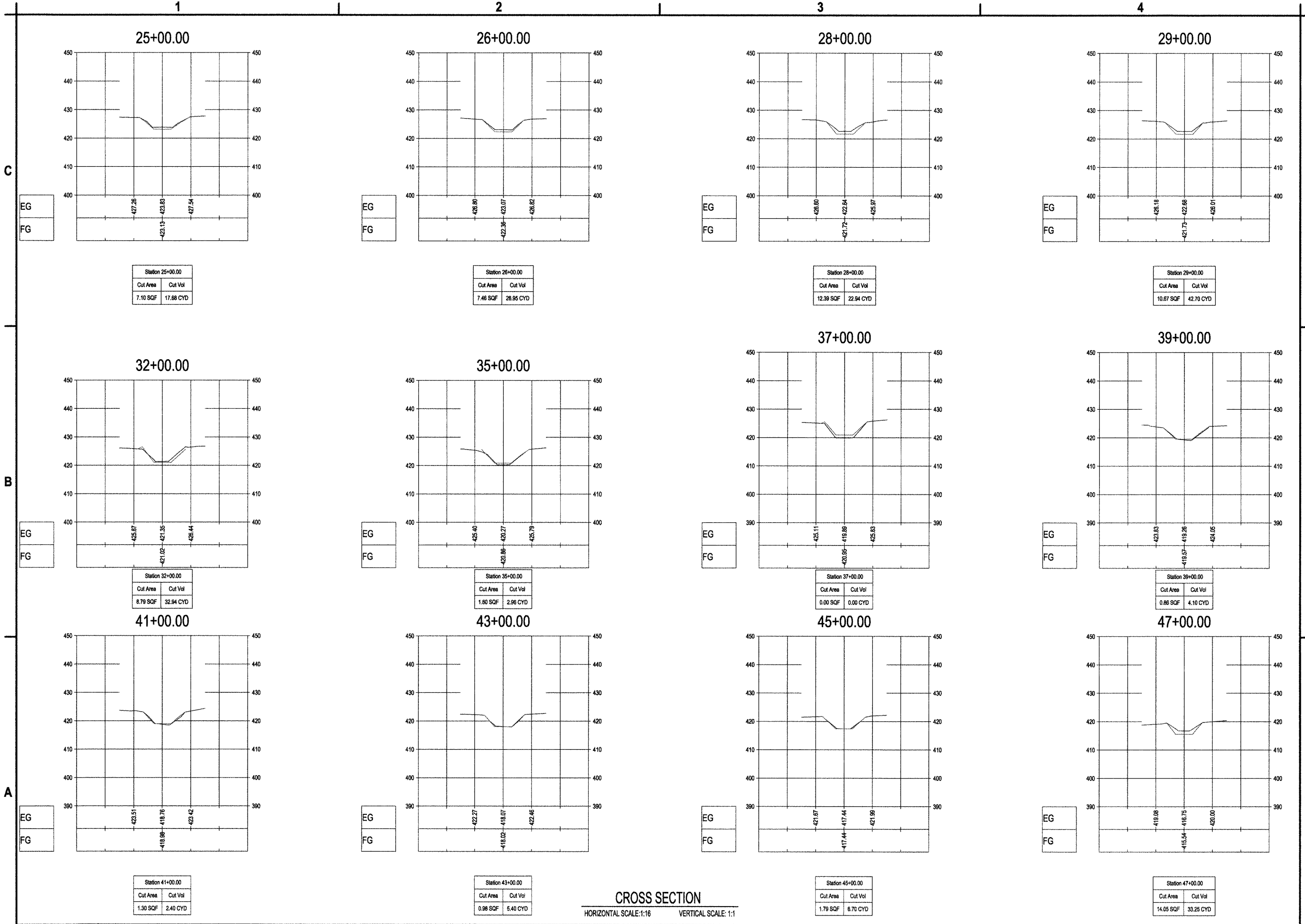
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PROFILE VIEWS

CS-201

May 15, 2024 - 9:25am
 F:\projects\11941006 - Phase 2 Cold Brook Sediment Removal\Design\CD\Sheet Files\11941006_CS_2005E\PRODFL99-95-02.dwg



CROSS SECTION
 HORIZONTAL SCALE: 1:16 VERTICAL SCALE: 1:1

A1 PROFILE VIEWS



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**COLD BROOK SEDIMENT REMOVAL
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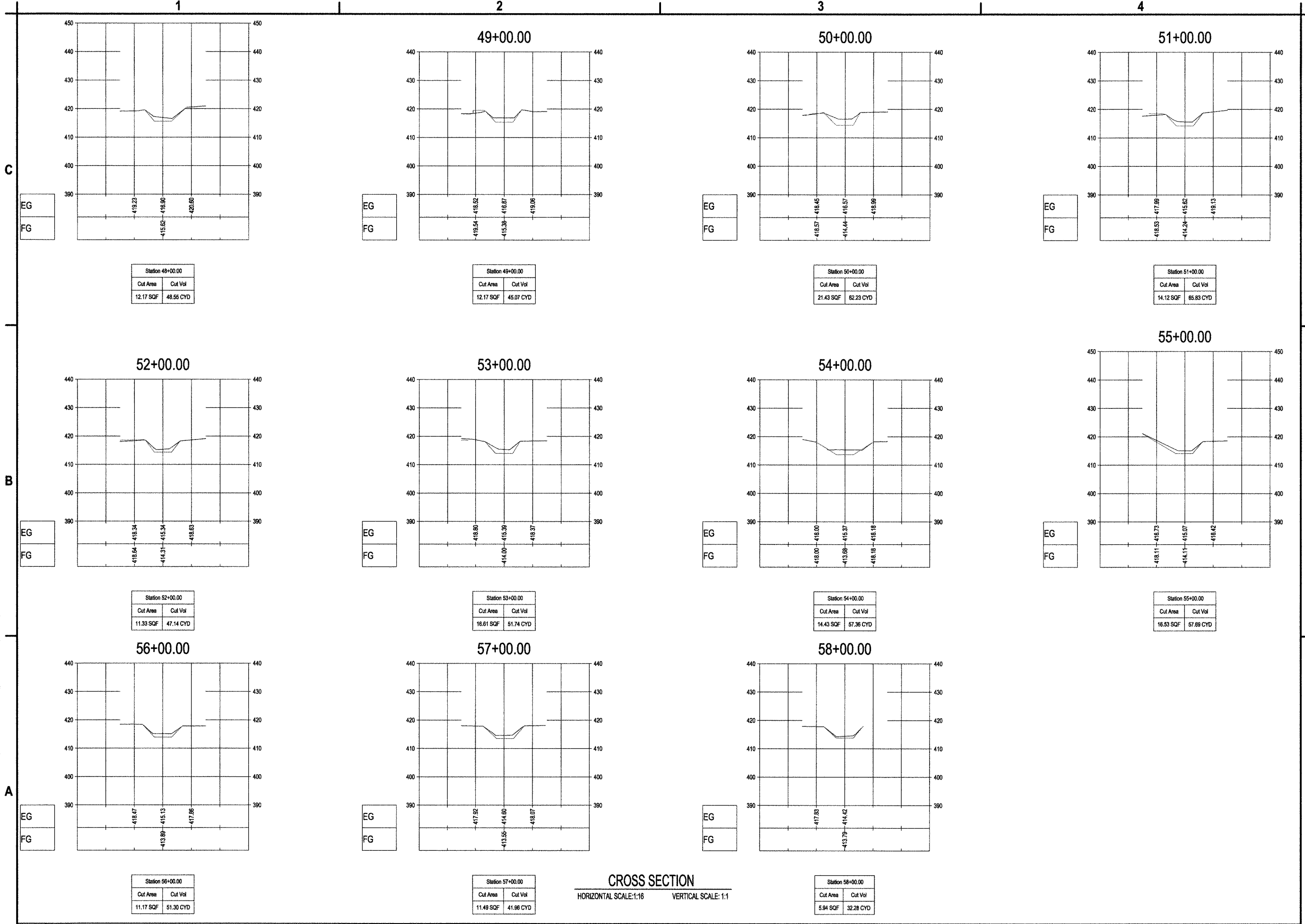
MARK	DATE	DESCRIPTION
REVISIONS		
		PROJECT NO: 119,431,006
		DATE: MAY 2024
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PROFILE VIEWS

CS-202

May 15, 2024 - 3:28pm
 F:\proj\113 - City of Syracuse\113 - Cold Brook Sediment Removal\Design\CAD\Sheet Files\113\113_102_CS_2003SET\PROFILES-25-23.dwg



CROSS SECTION
 HORIZONTAL SCALE: 1:16 VERTICAL SCALE: 1:1

A1 PROFILE VIEWS
SCALE: 1" = 16'



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PROFILE VIEWS

CS-203

ITEM	DESCRIPTION	UNIT	QUANTITIES	
			PROP.	AS-BUILT
201.06	CLEARING AND GRUBBING - REMOVAL AND DISPOSAL OF TRASH RACK	LS	1	
201.07	CLEARING AND GRUBBING	ACRE	2	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	38	
203.06	SELECT FILL - WALL EMBANKMENT	CY	10	
203.07	SELECT GRANULAR FILL	CY	35	
205.0201	SEGREGATION AND STORAGE OF CONTAMINATED SOIL	LS	1	
205.050201	DISPOSAL OF CONTAMINATED NON-HAZARDOUS WASTE SOIL	TON	2380	
207.21	GEOTEXTILE SEPARATION	SY	26	
207.25	GEOMEMBRANE	SY	85	
209.11000001	GEOTEXTILE FABRIC SEDIMENT COLLECTION BAG	EA	13	
209.2301	SEDIMENT FILTER LOG, 12"	LF	5000	
304.12	SUBBASE COURSE, TYPE 2	CY	3	
404.098201	9.5 F2 TOP COURSE WMA, 80 SERIES COMPACTION	TON	7	
404.198901	19 F9 BINDER COURSE ASPHALT, 70 SERIES COMPACTION	TON	3	
404.378901	37.5 F9 BASE COURSE ASPHALT, 80 SERIES COMPACTION	TON	12	
407.0102	DILUTED TACK COAT	GAL	1	
502.06	PAVEMENT SAWCUT	LF	45	
553.0300001	TEMPORARY WATERWAY DIVERSION STRUCTURE	EA	13	
554.4	FILL TYPE RETAINING WALL (0 TO 6 FT)	SF	200	
560.13000001	REMOVE AND RESET STONE WALL	LF	200	
603.9901001	TRASH RACK	EA	1	
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CY	3	
610.1402	TOPSOIL - ROADSIDE	CY	35	
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	23500	
614.0411	CARE OF TREES UP TO 12 INCHES DIAMETER AT BREAST HEIGHT - PRUNING	EA	10	
614.0421	CARE OF TREES 12 INCHES TO 24 INCHES DIAMETER AT BREAST HEIGHT - PRUNING	EA	5	
614.0431	CARE OF TREES 24 INCHES TO 36 INCHES DIAMETER AT BREAST HEIGHT - PRUNING	EA	2	
614.060104	TREE REMOVAL OVER 4-6" DIAMETER AT BREAST HEIGHT	EA	5	
614.060204	TREE REMOVAL OVER 6-12" DIAMETER AT BREAST HEIGHT	EA	5	
614.060304	TREE REMOVAL OVER 12-18" DIAMETER AT BREAST HEIGHT	EA	3	
614.060404	TREE REMOVAL OVER 18-24" DIAMETER AT BREAST HEIGHT	EA	2	
614.0703	PRE-EXISTING STUMP REMOVAL OVER 45" DIAMETER	EA	2	
619.0100	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
621.01	CLEANING CULVERTS WITH SPAN OF 50 INCHES OR LESS	LF	250	
621.02	CLEANING CULVERTS WITH SPAN OF MORE THAN 50 INCHES	LF	500	
621.5197001	GRADING, CLEANING, AND RESHAPING EXISTING CHANNELS, DITCHES AND STREAMBEDS	LF	4650	
699.040001	MOBILIZATION	LS	1	



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ESTIMATE OF
 QUANTITIES

EST-01