

100% DESIGN DOCUMENTS FOR CONSTRUCTION OF THE

(VALLEY OF THE HAWKS)

PROCTOR CREEK CONSTRUCTED WETLAND **AT HISTORIC WESTIN HEIGHTS**

TASK ORDER 061 GREEN INFRASTRUCTURE DESIGN CITY OF ATLANTA, GA

VOLUME 3 OF 3

DRAWINGS

PREPARED FOR

DEPARTMENT OF WATERSHED MANAGEMENT CITY OF ATLANTA, GA



A JOINT VENTURE





CONTACTS

OWNER: **CITY OF ATLANTA** DEPARTMENT OF WATERSHED MANAGEMENT '2 MARIETTA STREET NW ATLANTA. GA 30303

RHONDA CRENSHAW, PROJECT MANAGER (404) 546-333 GLEN BEHREND P.E., PROJECT SPONSOR 404-546-1441

ENGINEER: CH2M ROHADFOX

10 10TH STREET NE SUITE 1400 ATLANTA, GA 30309

VERONICA JARRIN, P.E. (404) 978-7600

SITE INFORMATION

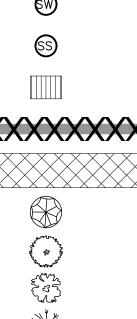
ADDRESS: CAIRO STREET NW, ATLANTA, GA SITE ZONING: RG-2 NEIGHBORHOOD: HISTORIC WESTIN HEIGHTS NPU: K CITY COUNCIL DISTRICT: 3

TOTAL DISTURBED AREA = 6.70 acres TOTAL SITE AREA = 6.70 acres

NOTIFY INSPECTIONS 24 HOURS PRIOR TO THE BEGINNING OF EVERY PHASE OF CONSTRUCTION. (404) 546-1300

Ch2MM: ROHADEON a Joint VENTURE CONSTRUCTED WETLANDS OBSIGNERN INFRASTRUCTURE DESIGN OBSIGNERN INFRASTRUCTURE DESIGN OBSIGNERN INFRASTRUCTURE DESIGN OBSIGNERN INFRASTRUCTURE DESIGN OD DATE COVER SHEET DEPARTMENT OF WATERSHED MANAGEMENT DEPARTMENT OF WATERSHED MANAGEMENT				REVISION BY APVD	ER CHK APVD CBASNETT V JARRIN	MENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF © CH2M HILL 2019. ALL RIGHTS I
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2 CE-05	INTERMEDIATE EROSION CONTROL PLAN SHEET 1 OF 4	
3 CE-06	INTERMEDIATE EROSION CONTROL PLAN SHEET 2 OF 4	
4 CE-07	INTERMEDIATE EROSION CONTROL PLAN SHEET 3 OF 4	
5 CE-08	INTERMEDIATE EROSION CONTROL PLAN SHEET 4 OF 4	
	EROSION CONTROL NOTES 2 OF 4	ROYSPHOYSPH
2 CE-15	EROSION CONTROL NOTES 3 OF 4	
3 CE-16	EROSION CONTROL NOTES 4 OF 4	
4 CE-17	EROSION CONTROL DETAILS 1 OF 3	
5 CE-18	EROSION CONTROL DETAILS 2 OF 3	
6 CE-19	EROSION CONTROL DETAILS 3 OF 3	
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	EXISTING CONTOUR (1' MINOR)
	PROPOSED CONTOUR (5' MAJOR)
	PROPOSED CONTOUR (1' MINOR)
	REGULATORY FLOODWAY
	EXISTING 100 YR FLOOD PLAIN
	25' GAEPD UNDISTURBED BUFFER AS MEASURED FROM POINT OF WRESTED VEGETATION
	CITY OF ATLANTA 75' STREAM BUFFER
	EXISTING STORM PIPE
	EXISTING SANITARY SEWER
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM INLET
	EXISTING STORM MANHOLE
	PROPOSED STORM PIPE
	PROPOSED SANITARY PIPE
	PROPOSED STORM MANHOLE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM INLET
	STORMWATER PIPE DEMOLITION
	BUILDING & PARKING DEMOLITION
	EXISTING SYCAMORE TREE
	EXISTING POPLAR TREE
	EXISTING OAK TREE
	EXISTING MAPLE TREE
	EXISTING HICKORY TREE
	SEGMENTAL RETAINING WALL
	SEWER PROTECTION ZONE
	RIP RAP
	REINFORCED CONCRETE PIPE (RCP)

4

ABBREVIATIONS APPROXIMATE APPROX. ASPHALT CATCH BASIN CURB INLET CORRUGATED METAL P CONCRETE CONTINUED CRITICAL ROOT ZONE DIAMETER AT BREAST DRIVEWAY DROP INLET DIAMETER DIAGONAL DUCTILE IRON PIPE DEED BOOK MAXIMUM BANKFULL DE DPOOL DEPTH OF POOL DEPARTMENT OF WATE MANAGEMENT EACH EL.,ELEV. ELEVATION EDGE OF PAVEMENT EX.,EXIST. EXISTING EXISTING IRON PIN FLARED END SECTION FIRE HYDRANT FOOT GEORGIA DEPARTMENT GADOT, GDOT TRANSPORTATION GEORGIA ENVIRONMEN GAEPD PROTECTION DIVISION GAS LINE HIGH POINT HW, HDWL HEADWALL INVERT ELEVATION INVERT IRON PIN LOW POINT LAYOUT LINE LINEAR FEET MANHOLE NATIONAL SANITATION FOUNDATION NORMAL WATER SURFACE OPENING POOL POINT OF CURVATURE POINT OF INTERSECT PAGE PROPOSED POINT OF TANGENCY POLYVINYL CHLORIDE PAVEMENT RIFFLE REINFORCED CONCRETE BOX CULVERT

5

ASPH

СВ

CI

CMP

CONC.

CONT.

CRZ

DBH

D/W

DI

DIA DIAG

DIP

DB

DMBKF

DWM

ΕA

EOP

EIP

FES

FH

FT

GL

HPT

IΕ

INV.

IP

LPT

LOL

LF MH

NSF

NWS

OPNG

Р

PC

ΡI

PG.

ΡT

PVC PVMT

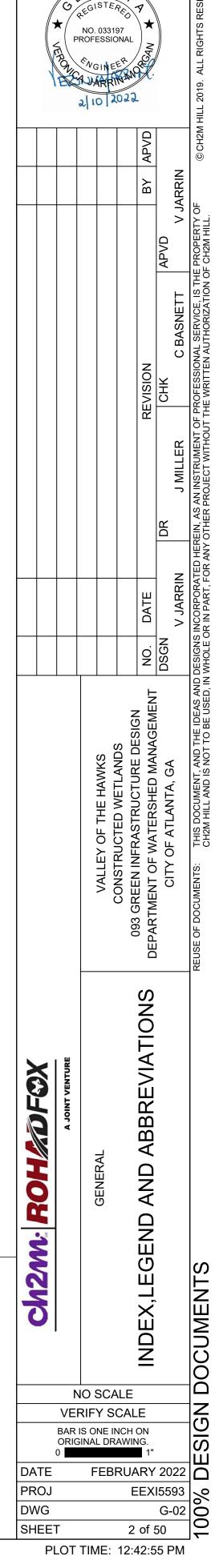
R

RCBC

PROP.

SECTION (LETTER) OR DETAIL (NUMERAL) DESIGNATION

	RCP	REINFORCED CONCRETE PIPE
	REINF	REINFORCEMENT
	RN	RUN
	R/W	RIGHT-OF-WAY
	S	IN-STREAM STRUCTURE
PIPE	S.E.L.	SOIL ENCAPSULATED LIFT
	SDCB	STORM DRAINAGE CATCH BASIN
	SDMH	STORM DRAINAGE MANHOLE
	SS	SANITARY SEWER
HEIGHT	SSMH, SAN MH	SANITARY SEWER MANHOLE
	SSP	SANITARY SEWER PIPE
	S/W	SIDEWALK
	STD.	STANDARD
	STW	STORMWATER MANHOLE
	SD	STORM DRAIN
	SDP	STORM DRAIN PIPE
DEPTH	STA.	STATION
	ТВМ	TEMPORARY BENCH MARK
ERSHED	TEMP.	TEMPORARY
	TP-H/T	TRAVERSE POINT (HUB AND TACK)
	TP-PK	TRAVERSE POINT (PK NAIL)
	TYP	TYPICAL
	UGT	UNDERGROUND TELEPHONE CABLE
	VCP	VITRIFIED CLAY PIPE
l	W	WIDTH
	W.M.	WATER MAIN
	WL	WETLAND
NT OF	WV	WATER VALVE
NTAL	WS	WATER SURFACE
N	WSEL	WATER SURFACE ELEVATION
	YR	YEAR



EORG

А **D-1**

- DWG NUMBER WHERE SECTION OR DETAIL IS SHOWN

DETAIL AND SECTION DESIGNATION

_		1 2		
	GEN	NERAL NOTES		
	CO	NTRACTOR REQUIREMENTS:		<u>ITY N.</u>
A	1.	WORK REQUIRED UNDER THIS CONTRACT INCLUDES FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THE CONSTRUCTION OF THE VALLEY OF THE HAWKS CONSTRUCTED WETLAND PROJECT. THE PURPOSE OF THIS PROJECT IS TO BUILD A CONSTRUCTED WETLAND THAT WILL REDUCE SURFACE WATER DRAINAGE AWAY FROM THE ST. JOHNS TRUNK AND THE CSO FACILITY AND INTO MOSQUITO HOLE. WORK SHALL INCLUDE GRADING, IN-STREAM STRUCTURES, PLANTING, APPLICABLE PERMITS, AND EROSION CONTROL MEASURES.	1. 2.	THE GEN VEF RES CON ME1 VEF
	2.	GENERAL CONTRACTORS BIDDING AND WORKING ON THIS PROJECT MUST BE GEORGIA LICENSED CONTRACTORS.	3.	PRC THE WO
	3.	THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF THE EXISTING SUBSURFACE CONDITIONS. ANY SUBSURFACE INVESTIGATION REPORTS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. EXISTING SOIL CONDITIONS ON THE PROJECT SITE MAY INCLUDE AREAS OF SATURATED SOILS. CONTRACTOR SHALL INCLUDE PROVISIONS FOR WORKING WITH WET SOILS IN THEIR BID.	4.	THE PRC THE WIT BET
_	4.	CONTRACTOR SHALL VERIFY WORK IN THE FIELD AND SHALL SATISFY THEMSELVES AS TO THE ACCURACY BETWEEN WORK SET FORTH ON THESE PLANS AND THE WORK REQUIRED IN FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING AT LEAST SEVEN DAYS PRIOR TO THE START OF CONSTRUCTION.	5.	OW BEF FRC
	5.	CONTRACTOR SHALL HAVE AN APPROVED SET OF PLANS, SHOP DRAWINGS, AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES. SURVEY EQUIPMENT MUST BE KEPT ON SITE AT ALL TIMES.		CON CON OW ANY
	<u>SUR</u>	VEY INFORMATION:		THE PRC
	1.	TOPOGRAPHIC DATA SHOWN ON THESE PLANS IS FOR THE INFORMATION OF THE CONTRACTOR. THE CONTRACTOR SHALL MAKE ADDITIONAL INVESTIGATIONS AS REQUIRED TO ACQUAINT THEMSELVES ADEQUATELY WITH THE SITE'S TOPOGRAPHY AND SUBSURFACE CONDITIONS FOR THE PREPARATION OF THEIR BID AND FOR THE SUCCESSFUL EXECUTION OF THEIR WORK.	6.	UTII LAT SEF LOC
В	2.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY REQUIREMENTS OF THIS PROJECT AND SHALL USE A GEORGIA LICENSED LAND SURVEYOR.		REF FOF INC
	3.	THE BASE SURVEY INFORMATION FOR THIS SITE WAS PERFORMED BY JACOBS ENGINEERING AND VAUGHMAN & MELTON IN OCTOBER 2019.		THE REC TO
	4.	SURVEY HORIZONTAL AND VERTICAL CONTROL BASED ON GEORGIA STATE PLANE WEST NAD83. ALL STATIONING AND DISTANCES INDICATED ON THE DRAWINGS ARE BASED ON HORIZONTAL MEASUREMENTS.	VEC	GETAT
	5.	SURVEY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE RESET BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF GEORGIA. PRIOR TO DISTURBANCE, CONTACT MONUMENT OWNER TO VERIFY LOCATION OF EXISTING MONUMENT.	1.	TRE DRA DES RES
	PER	MITTING NOTES:		PLA SHF BAF
	1.	THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ADHERING TO ALL PERMITS AS REQUIRED, AND SHALL MAKE ALL NOTIFICATIONS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ENGINEER AND OWNER PRIOR TO STARTING WORK.	2.	THE INJU VEC
С	2.	THE STREAM THAT IS BEING IMPROVED AS PART OF THIS PROJECT IS JURISDICTIONAL WATERS OF THE UNITED STATES. THE EXTENTS OF THE JURISDICTIONAL WATERS ARE SHOWN ON THE OVERALL SITE PLAN. A NATIONWIDE PERMIT (APPLICATION TO BE SUBMITTED) HAS BEEN OBTAINED FROM THE US ARMY CORPS OF ENGINEERS FOR STABILIZING THE STREAM AS PART OF THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING THE CONDITIONS OF THE PERMIT.		SCA VEC LAN CON SHA BY
	STO	RMWATER NOTES:	3.	CON REN
	1.	MAPPED FLOODPLAIN AND REGULATORY FLOODWAY EXISTS AS SHOWN FROM FIRM PANEL 243 MAP NUMBER 13121C0243F DATED SEPTEMBER 18, 2013.	4.	ALL HAU CON
	2.	THERE ARE NO WETLANDS PRESENT ON THE SITE.		REN
	3.	STORM WATER MANAGEMENT FOR THIS PROJECT IS PROVIDED ON-SITE BY THE CONTRACTOR.	5.	NON
	4.	STREAM BUFFER VARIANCE (APPLICATION TO BE SUBMITTED) WAS OBTAINED TO WORK IN BUFFER AS SHOWN.	6.	A C REC PLA
	5.	 WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND, 2) THE APPROPRIATE PLAN SHEET DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND, 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION (SECTION 404) PERMIT HAS BEEN OBTAINED. THERE ARE NO WETLANDS BEING DISTURBED ONSITE. 	<u>JOB</u> 1.	IN A CON THE OF TO
D	6.	APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY ATLANTA DWM OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.	2. 3.	THE VAN CON CON FAC PRC
n	w.\\proie@	ctwise.ch2m.com:DEN003\Documents\705088 - CoA 061 GI\DESIGN\VH - Valley of the Hawks\Dlv\		

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NOTES:

HE EXISTING UTILITIES SHOWN AND INDICATED ON THE DRAWINGS ARE FOR ENERAL INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERIFICATION OF EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE ESPONSIBLE FOR ANY DAMAGE OR DISRUPTION OF UTILITY SERVICE DURING ONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITIES PROTECTION CENTER IN ETRO ATLANTA OR THROUGHOUT GEORGIA (811) AND/OR OWNERS OF THE UTILITIES TO ERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

ONTRACTOR IS TO MAINTAIN CONTINUOUS UTILITY SERVICES TO ALL LOCATIONS IN THE ROJECT AREA.

IE CONTRACTOR SHALL PROVIDE ACCESS TO UTILITY COMPANIES FOR MAINTENANCE AND ORK ON THEIR UTILITIES DURING THE COURSE OF CONSTRUCTION.

HE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES WHOSE LINES ARE WITHIN THE ROJECT AREA, PRIOR TO CONSTRUCTION, AND SHALL COORDINATE ANY RELOCATION OF HE EXISTING UTILITIES, UNLESS OTHERWISE SPECIFIED ON THE PLANS. ANY CONFLICTS ITH THE EXISTING UTILITIES WHICH ARE NOT NOTED ON THE PLANS SHALL BE RESOLVED ETWEEN THE CONTRACTOR AND THE RESPECTIVE UTILITY COMPANY AT NO COST TO THE WNER. ALL SUCH RELOCATIONS SHALL BE NOTED ON THE AS-BUILT DRAWINGS.

EFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL UTILITIES ROM DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS AND/OR RELATED WORK OF THE ONTRACTOR OR THEIR AGENT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO DAMAGED UTILITIES AT THEIR WN EXPENSE. CONTRACTOR SHALL HOLD HARMLESS THE ENGINEER AND THE OWNER FOR NY INCONVENIENCE OR DELAY CAUSED BY THE OPERATIONS OF OTHERS IN PERFORMING HE ABOVE WORK. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHERS TO ROVIDE SATISFACTORY PROGRESS IN THE PROJECT AREA.

FILITY LATERALS ARE SPECIFICALLY EXCLUDED FROM THESE DRAWINGS. THESE UTILITY ATERALS INCLUDE BURIED WATER, SEWER, GAS, ELECTRIC, TELEVISION AND TELEPHONE ERVICES, STREET LIGHTING AND TRAFFIC LOOP DETECTORS. THE CONTRACTOR SHALL OCATE AND PROTECT ALL SUCH FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR EPAIRING ALL SUCH FACILITIES THAT ARE DAMAGED DURING CONSTRUCTION. PAYMENT OR LOCATING, PROTECTING, COORDINATING, AND REPAIRING EXISTING FACILITIES WILL BE CLUDED IN OTHER ITEMS OF WORK AND NO ADDITIONAL COMPENSATION WILL BE MADE HEREFORE. ALL REPAIRS SHALL BE MADE IN ACCORDANCE WITH STANDARDS AND EQUIREMENTS OF THE UTILITY OWNER. UTILITY SUPPORT METHODS SHALL BE SUBMITTED D ENGINEER PRIOR TO CONSTRUCTION FOR APPROVAL.

TION DISTURBANCE:

REES SHALL NOT BE DAMAGED OR REMOVED UNLESS OTHERWISE SPECIFIED ON THE RAWINGS OR APPROVED IN WRITING BY ENGINEER AND OWNER. LANDSCAPING NOT ESIGNATED FOR REMOVAL THAT IS DAMAGED DURING CONSTRUCTION SHALL BE ESTORED WITH THE SAME VARIETIES AND AGE OF EXISTING LANDSCAPE VEGETATION AND ANTS. THE CONTRACTOR SHALL NOT DISTURB AND SHALL PROTECT ALL TREES AND HRUBS OUTSIDE OF CONSTRUCTION LIMITS, IN ADDITION TO THOSE THAT RECEIVE ORANGE ARRIER FENCE INSIDE PROJECT LIMITS.

HE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT JURY TO EXISTING VEGETATION THAT IS TO BE PROTECTED. IF ANY INJURIES TO EGETATION OCCUR, BROKEN BRANCHES SHALL BE REMOVED AND ROUGH EDGES AND CARRED LIMBS SHALL BE SHAPED, MADE SMOOTH, AND OTHERWISE REPAIRED. ANY EGETATION THAT IS DAMAGED TO SUCH AN EXTENT AS TO DESTROY THEIR VALUE FOR ANDSCAPE PURPOSES SHALL BE REMOVED, DISPOSED OF, AND REPLACED BY THE ONTRACTOR AT THEIR OWN EXPENSE. GRASS OR GROUND COVER THAT IS DAMAGED HALL BE SEEDED AND MULCHED AND/OR SODDED TO MATCH EXISTING AGE AND SPECIES (THE CONTRACTOR AT THEIR OWN EXPENSE.

ONSTRUCTION DEBRIS AND TREES THAT HAVE BEEN DAMAGED OR FELLED SHALL BE EMOVED OFF SITE BY THE CONTRACTOR.

L WASTE, SEDIMENT, DEBRIS, BRUSH, DISCARDED MATERIALS, AND RUBBISH SHALL BE AULED OFF THE PROJECT SITE NO LESS THAN ONCE PER WEEK. EXISTING SITE MAY ONTAIN RUBBISH THAT SHALL BE REMOVED PRIOR TO SITE GRADING. ANY MATERIAL EMOVED FROM THE SITE SHALL BE DISPOSED OF IN A LAWFUL MANNER AT STATE OR OUNTY APPROVED AND PERMITTED DISPOSAL SITE(S).

ON-VEGETATIVE MATERIAL IS TO BE REMOVED MANUALLY.

COMMERCIAL APPLICATOR LICENSE AND A PESTICIDE CONTRACTOR LICENSE ARE EQUIRED BY THE CONTRACTOR IF THE USE OF HERBICIDES IS NECESSARY FOR NOXIOUS _ANT MATERIAL REMOVAL.

E CONDITIONS:

ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE ONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT HE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED O NORMAL WORKING HOURS.

HE CONTRACTOR IS RESPONSIBLE FOR SECURING THE WORK SITE AGAINST TRESPASSING, ANDALISM, DUMPING, AND THEFT.

ONTRACTOR SHALL MAINTAIN STORM DRAINAGE DURING CONSTRUCTION. THE ONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO AND THROUGH EXISTING DRAINAGE ACILITIES FROM ALL DISTURBED AREAS BOTH DURING AND AT THE COMPLETION OF THE ROJECT. EASEMENT NOTES:

1. ALL EASEMENTS THAT LIE WITHIN TH DRAWINGS HAVE BEEN SECURED FO OCCUR ONLY WITHIN THE CONSTRU

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2. THE CONTRACTOR SHALL NOT AC RIGHT-OF-WAYS OR OVER ROUTES WRITING BETWEEN THE CONTRACT

CONSTRUCTION METHODS:

- 1. CONTRACTOR SHALL EXECUTE THE BETWEEN THE HOURS OF 8:00 A.M. AND DEWATERING UNLESS OTHERN
- 2. CONTRACTOR SHALL NOTIFY ENGIN AFFECT NOISE LEVELS OR TRAFFIC
- 3. PRIOR TO CONSTRUCTION, CONTRA SEGMENTAL WALL AND STRUCTURE FOR REVIEW AND APPROVAL BY TH SPECIFICATIONS. ENGINEER TO PRO ESTABLISHING STAKING.
- 4. ALL WORK ACTIVITIES SHOULD ALL THAT MAY RESTRICT STREAM FLOW THE PROPOSED CHANNEL WHICH H WEEKENDS, AND STORM EVENTS.
- 5. THE CONTRACTOR SHALL DISPOSE MEETS ALL STATE AND LOCAL PERM STOCKPILE EXCAVATION MATERIAL
- 6. CONTRACTOR SHALL ACCESS THE
- 7. TREE REMOVAL FOR STAGING AREA SPECIFICALLY INDICATED ON THE D OWNER. THE CONTRACTOR SHALL S APPROVAL BY ENGINEER PRIOR TO
- 8. CONTRACTOR SHALL PROTECT EXIS SEWER UTILITY EASEMENTS MAY O DRAWINGS.
- 9. CONTRACTOR SHALL REPAIR ANY D A RESULT OF CONSTRUCTION ACTIV ASSETS SHALL BE REMOVED, DISPO EXPENSE, UNLESS OTHERWISE SPE
- 10. GRADES, ELEVATIONS, AND LOCATI BE MINIMALLY ADJUSTED DURING C THE ENGINEER TO ACCOMMODATE
- 11. ALL FINAL GRADES SHALL SLOPE TO WILL POND WATER UNLESS SPECIFI
- 12. ALL CONSTRUCTION ACTIVITIES SHA
- 13. CONTRACTOR SHALL NOTIFY INSPECTION, (404) 546-1300.
- 14. COMPLETE AND RETURN THE SOLID ISSUANCE OF PERMIT. IF APPLICABL OPERATIONS FORM, MAIL TO THE D PROTECTION DIVISION AND PROVID
- 15. CALCULATIONS FOR 72" RCP PIPE W CUT INSTALLATION. RECOMMEND U INSTALLATION.
- 16. CHECK VALVE INSTALLATION WILL F CONSULTING WITH MANUFACTUREF
- 17. CONTRACTOR SHALL VERIFY ALL EX CONSTRUCTION.

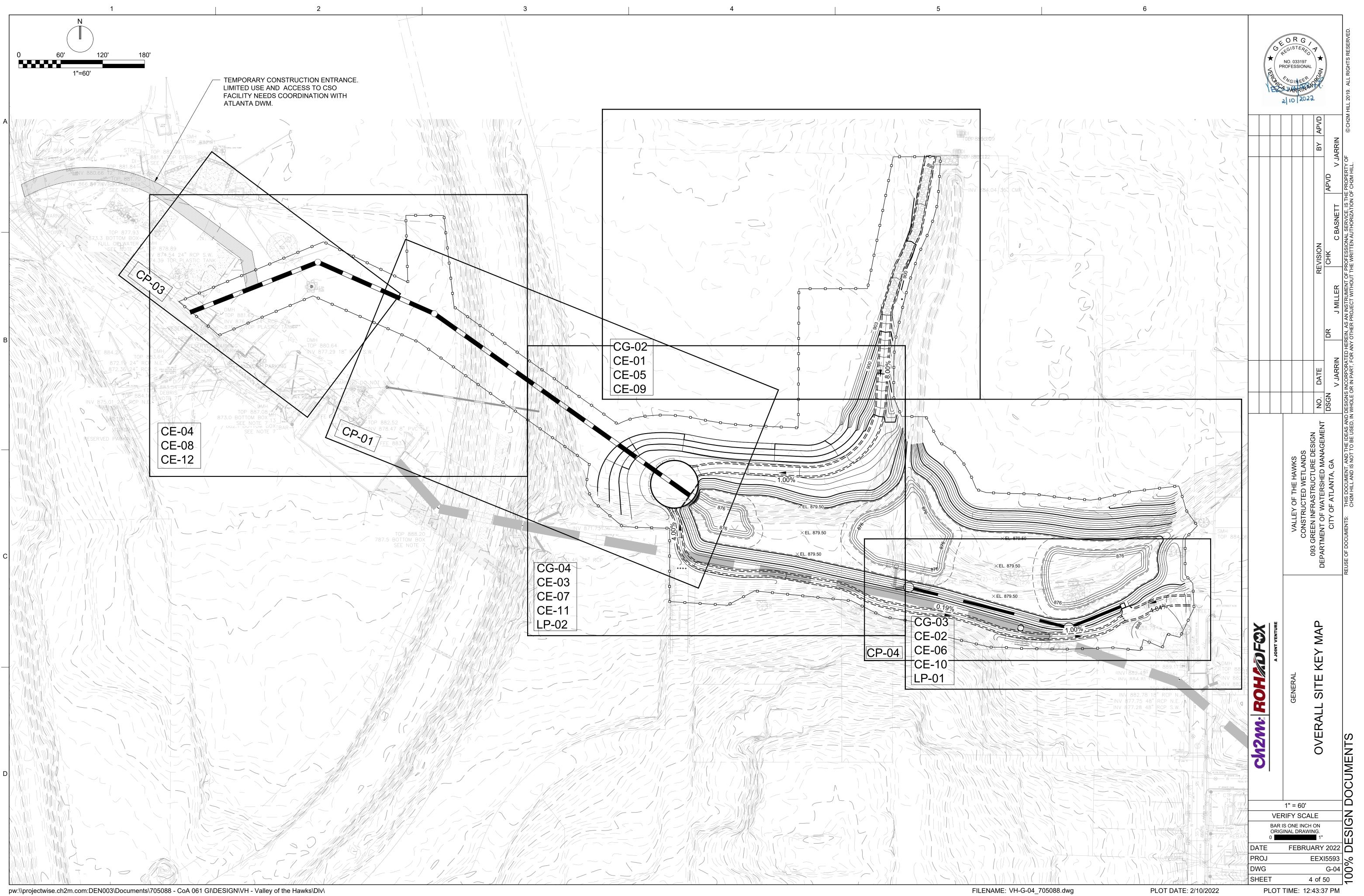
SANITARY SEWER PROTECTION ZONE NO

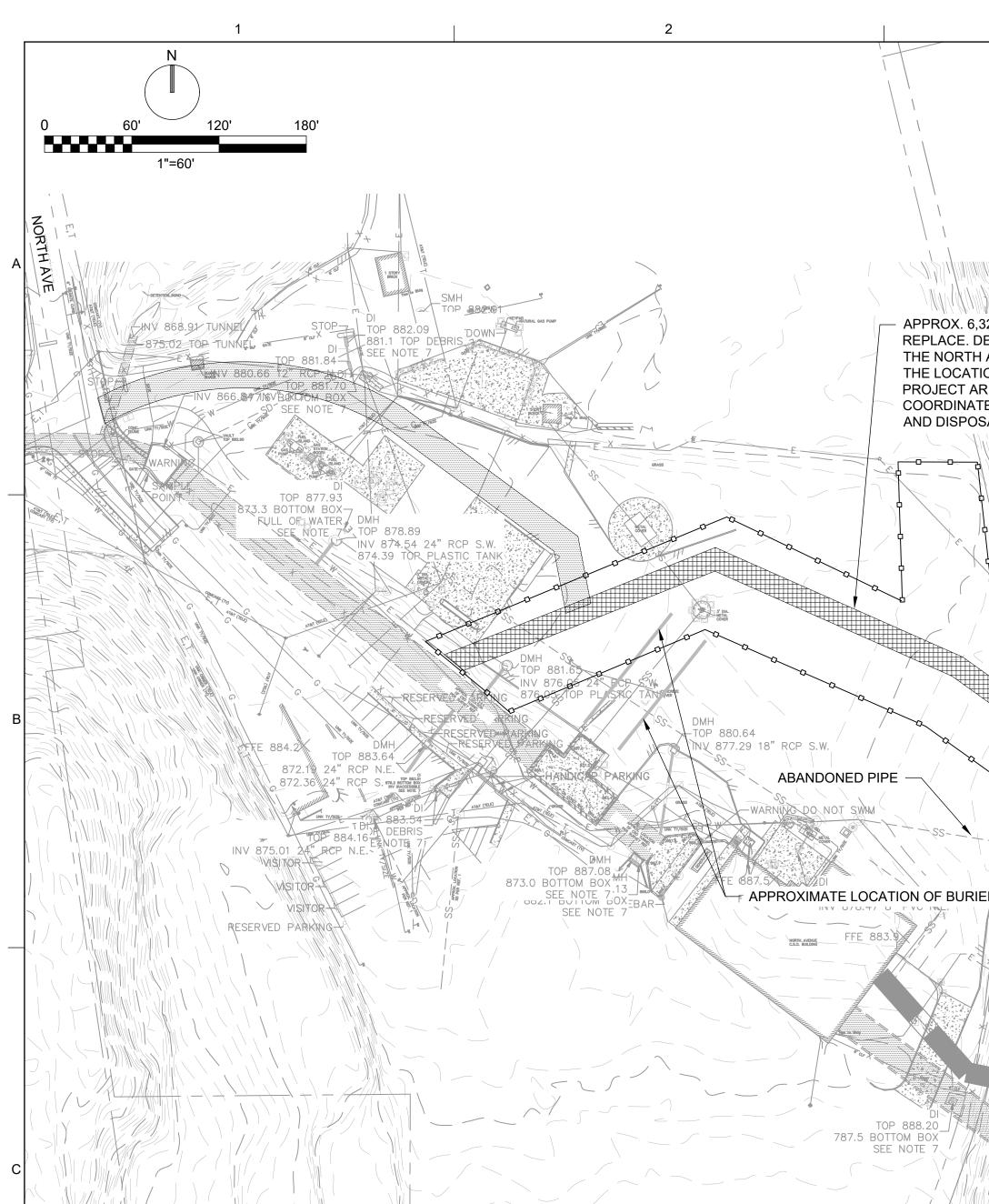
- 1. CONTRACTOR SHALL EXERCISE CA EQUIPMENT USED ON TOP AND ARC PEDESTRIAN PATHWAY AS THE STR
- 2. CONTRACTOR SHALL BE RESPONS SEWER THAT OCCUR AS A RESULT
- 3. DO NOT DRIVE TRUCKS OR CONSTR PROTECTION ZONE UNLESS ABSOL
- 4. WHEN GRADING WITHIN THE SANITA METHODS AND EQUIPMENT TO LIMI UNLESS THE CONTRACTOR PROVID (ENGINEER), THAT HIGHER PRESSU
- 5. USE HAND COMPACTION METHODS PROTECTION ZONE. PLACE SOIL IN REQUIREMENTS.

THE LIMITS OF CONSTRUCTION AS SHOWN ON THE OR THIS PROJECT. THE CONTRACTOR'S ACTIVITIES SHALL JCTION LIMITS. CESS THE WORK FOR THIS PROJECT EXCEPT OVER PUBLIC AT SPECIFIC ACCESS POINTS THAT ARE AGREED UPON IN OR AND PROPERTY OWNERS.		VERON CO	ORG EGISTER	NAL NES	
				APVD	
E WORK DURING WEEKDAYS, MONDAY THROUGH FRIDAY, AND 6:00 P.M. WITH THE EXCEPTION OF BYPASS PUMPING WISE NOTED OR AS DETERMINED BY THE ENGINEER.				BY /	V JARRIN
NEER AND OWNER OF ALL ACTIVITIES THAT SIGNIFICANTLY IN THE AREA.					APVD
ACTOR SHALL PROVIDE STAKEOUT OF GRADING, ES, BY A GEORGIA LICENSED LAND SURVEYOR HE ENGINEER AND OWNER AS REQUIRED PER THE OVIDE ELECTRONIC FILES FOR CONTRACTOR'S USE IN					C BASNETT
OW FOR THE REMOVAL OF EQUIPMENT AND BARRIERS V FROM THE EXISTING CHANNEL AND/OR ANY PART OF IAS BEEN "ACTIVATED" DURING "NON-WORKING" HOURS,				REVISION	CHK
OF WASTE SOIL OFF SITE, AT AN APPROVED SITE THAT MITTING REQUIREMENTS. THE CONTRACTOR SHALL IN ACCORDANCE WITH GDOT STANDARD SPECIFICATIONS.					J MILLER
WORK AREA VIA THE ACCESS ENTRANCE SHOWN ON DRAWINGS.					DR
AS AND ACCESS TO STREAM WILL NOT BE PERMITTED UNLESS DRAWINGS, OR APPROVED IN WRITING BY THE ENGINEER AND STAKE OUT CONSTRUCTION LIMITS AND STAGING AREAS FOR D CLEARING.			_	DATE	V JARRIN
STING UTILITIES WHEN CROSSING FOR ACCESS. SANITARY NLY BE CROSSED AT DESIGNATED LOCATIONS AS SHOWN ON					DSGN V J
DAMAGE TO CURB, SIDEWALK, AND/OR ASPHALT THAT OCCURS AS VITIES BEYOND THOSE SHOWN IN THE DRAWINGS. ALL DAMAGED DSED OF, AND REPLACED BY THE CONTRACTOR AT THEIR OWN ECIFIED IN THE BID SCHEDULE.					
ONS SHOWN ON THE PLANS FOR DRAINAGE STRUCTURES MAY CONSTRUCTION AT CONTRACTOR'S EXPENSE AS DIRECTED BY UNFORESEEN EXISTING CONDITIONS.			VALLEY OF THE HAWKS DNSTRUCTED WETLANDS	093 GREEN INFRASTRUCTURE DESIGN	TA, GA
OWARD THE STREAM CHANNEL, LEAVING NO DEPRESSIONS THAT ICALLY INDICATED ON THE GRADING PLANS.			of the I Ted Wi	ASTRUC TERSH	ATLAN
ALL COMPLY WITH CITY OF ATLANTA STANDARDS.			LEY O STRUC	I INFR/ OF WA	TY OF.
ECTIONS 24 HOURS BEFORE BEGINNING EVERY PHASE OF			VAL	GREEN MENT (CI
D WASTE DISPOSAL MANAGEMENT PLAN AFFIDAVIT PRIOR TO LE, COMPLETE THE NOTIFICATION OF PERMIT BY RULE DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL DE A COPY OF SAID FORM TO CITY OF ATLANTA.				DEPART	
VERE COMPLETED FOR STANDARD ASTM C76 RCP AND OPEN ISING CLASS V PIPE. SEE SHEET CD-02, DETAIL 1, TRENCH					
REQUIRE THE USE OF HEAVY EQUIPMENT. RECOMMEND R.	FOX	VENTURE		ഗ	
XISTING SANITARY SEWER LOCATIONS PRIOR TO		A JOINT		OTE	
DTES:	HO		GENERAL	ALN	
AUTION ON THE SELECTION OF THE CONSTRUCTION OUND THE SAINT JOHN TRUNK DURING INSTALLATION OF RUCTURAL INTEGRITY OF THE TRUNKLINE IS UNKNOWN			Ū	GENERAL NOTE	
IBLE FOR REPAIRING ANY DAMAGE TO THE SANITARY OF CONSTRUCTION ACTIVITIES.	ch2m:				
RUCTION EQUIPMENT WITHIN THE SANITARY SEWER .UTELY NECESSARY TO CONSTRUCT THE WETLAND.		l			
ARY SEWER PROTECTION ZONE, USE EXCAVATION IT SURFACE CONTACT PRESSURE TO NO MORE THAN 5 PSI DES WRITTEN EVIDENCE ACCEPTABLE TO THE CITY JRES CAN BE APPLIED.		VEF BAR I	O SCAL RIFY SC	CH ON	
WHEN COMPACTING SOIL WITHIN THE SANITARY SEWER	DATE	ORIG	INAL DRA	WING. 1" UARY	2022
	PROJ DWG			EEX	I5593 G-03
	SHEE	Т		3 of 5	

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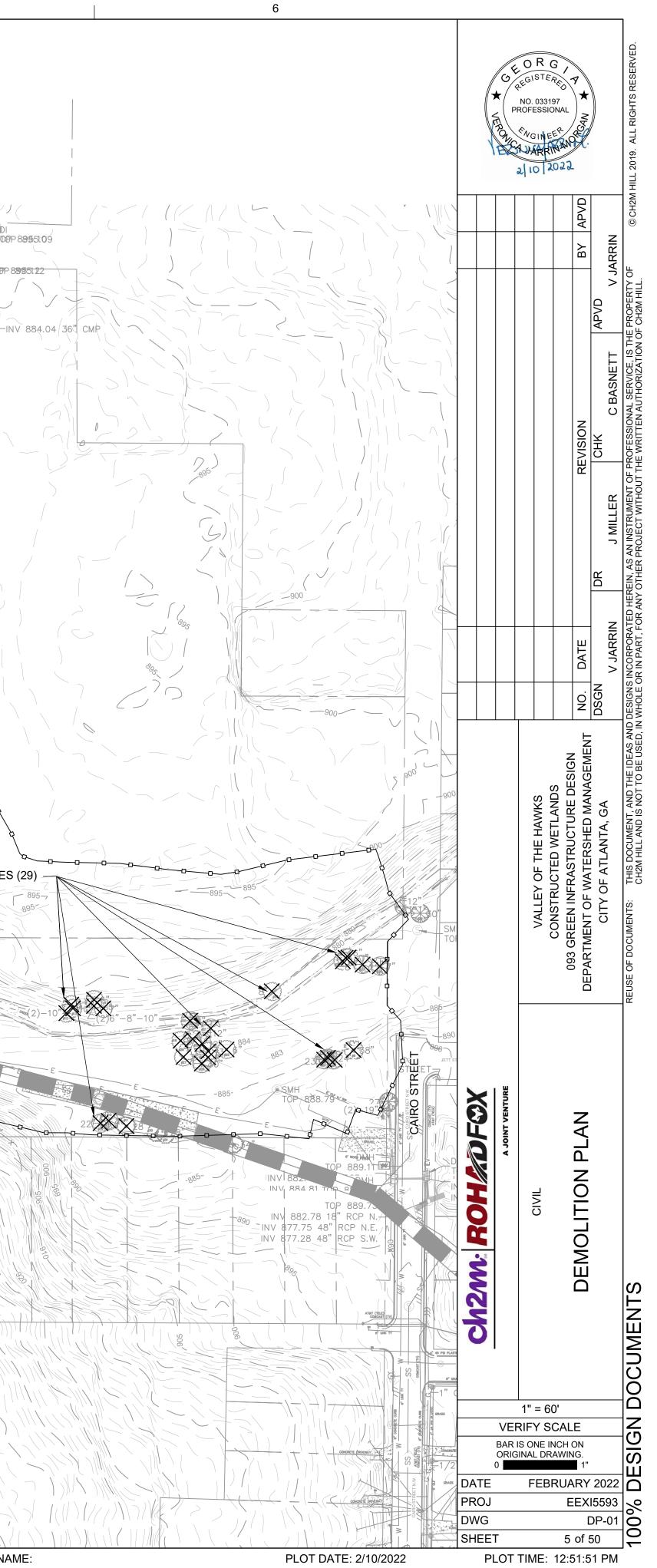


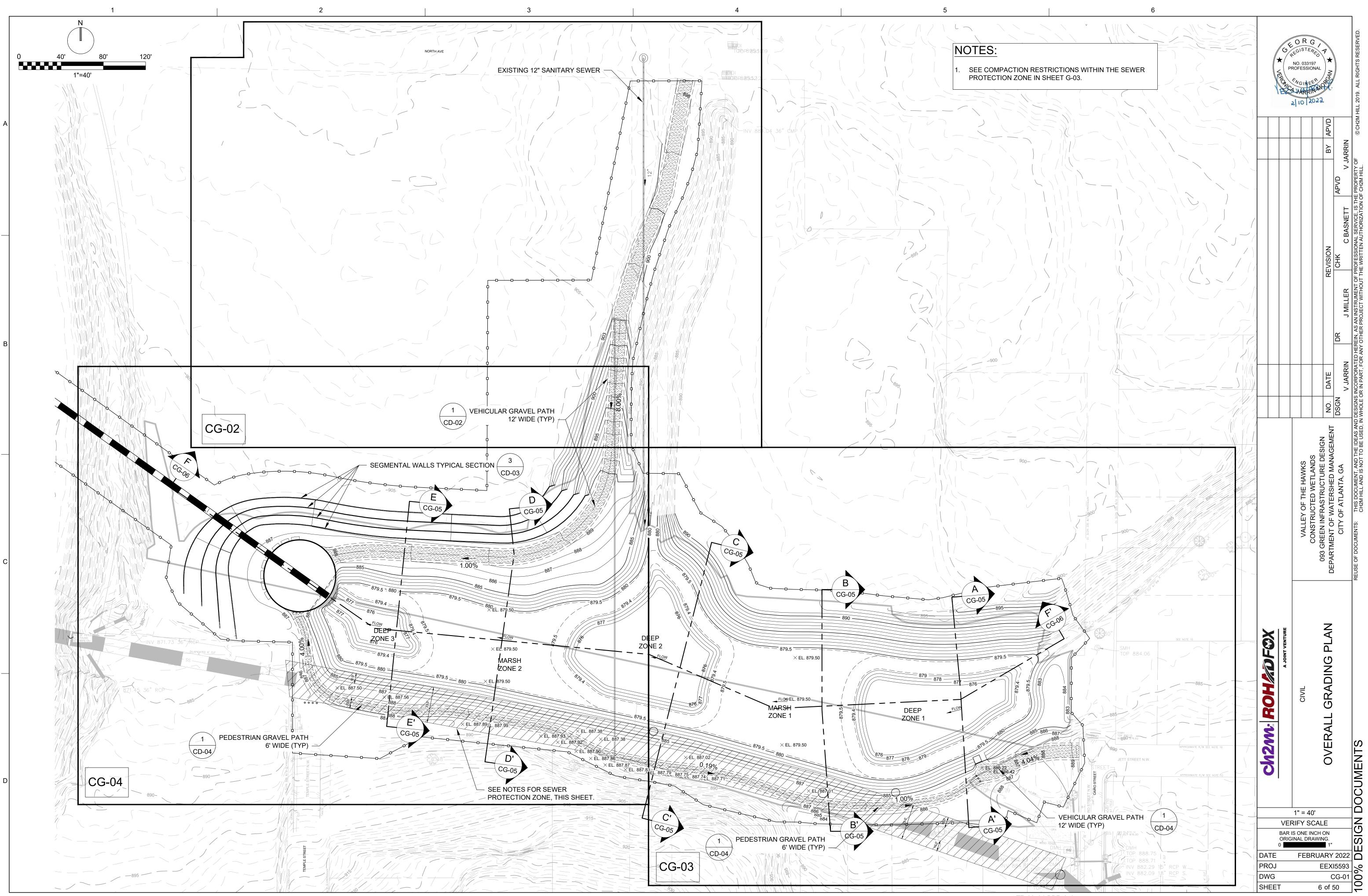


ID	SPECIES	DBH (INCHES)	CRZ RADIUS (FT)	WORK TO BE PERFORMED	ID	SPECIES	DBH (INCHES)	CRZ RADIUS (FT)	WORK TO BE PERFORMED		
1	Oak	24	24	TREE TO REMAIN	26	Sycamore	30	30	REMOVE	900-	A CONTRACTOR
2	Oak	48	48	TREE TO REMAIN	27	Unknown	7	7	REMOVE	-890	
3	Oak	48	48	TREE TO REMAIN	28	Unknown	11	11	REMOVE		-905
4	Hickory	27	27	TREE TO REMAIN	29	Popular	34	34	TREE TO REMAIN		
5	Maple	28.5 (19, 19)	28.5	TREE TO REMAIN	30	Popular	19	19	TREE TO REMAIN		
6	Sycamore	24	24	REMOVE	31	Popular	28	28	TREE TO REMAIN		
7	Sycamore	29	29	REMOVE	32	Sycamore	22	22	REMOVE		
8	Sycamore	23	23	REMOVE	33	Unknown	8	8	TREE TO REMAIN		
9	Oak	38	38	REMOVE	34	Unknown	10	10	REMOVE	ALL STREET	
10	Sycamore	26	26	REMOVE	35	Unknown	8	8	REMOVE		
11	Popular	28	28	REMOVE	36	Unknown	6	6	REMOVE		
12	Unknown	15 (10, 10)	15	REMOVE	37	Unknown	44	44	REMOVE		
13	Unknown	10	10	REMOVE	38	Hickory	7	7	REMOVE		
14	Unknown	4.5 (3, 3)	4.5	REMOVE	39	Hickory	30	30	TREE TO REMAIN		`
15	Unknown	6	6	REMOVE	40	Oak	6	6	TREE TO REMAIN	TOTAL RECOMPENSE, R	
16	Unknown	20 (10, 8, 6, 6)	20	REMOVE	41	Oak	30	30	TREE TO REMAIN	R = \$100.00 * (Nrem - Nrep) + \$30.00 * (TDBHrem - TCIrep)	
17	Unknown	7	7	REMOVE	42	Unknown	30	30	TREE TO REMAIN		
18	Unknown	8	8	REMOVE	43	Unknown	8	8	TREE TO REMAIN	NO. TREES REMOVED, DESTROYED, OR INJURED Nrem	29 TRE
19	Oak	14	14	REMOVE	44	Unknown	15	15	TREE TO REMAIN	NO. TREES REPLACED Nrep	70 TRE
20	Sycamore	8	8	REMOVE	45	Unknown	12	12	TREE TO REMAIN	TOTAL DBH REMOVED TDBHrem	456.5 INC
21	Sycamore	12	12	REMOVE	46	Unknown	8	8	TREE TO REMAIN	TOTAL CALIPER INCHES OF TREES REPLACED ON SITE TCIrep	
22	Unknown	12	12	REMOVE	47	Popular	20	20	TREE TO REMAIN		392.5
23	Unknown	13	13	REMOVE	48	Unknown	24	24	TREE TO REMAIN		<u>↓ </u>
24	Unknown	8	8	REMOVE	50	Unknown	12	12	TREE TO REMAIN	R = \$100.00 * (29 - 70) + \$30.00 * (456.5" - 392.5") \$ (2,180.00)	ļ
25	Unknown	6	6	REMOVE	51	Unknown	12	12	TREE TO REMAIN	TOTAL CREDIT FOR TREES PLANTED\$ 2,180.00	

pw.\\projec iey (

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1				· · · · · ·		
				NORTH AVE		
	NG PAVEMENT TO REMOVE A		+			
	580 CY OF SPOIL MATERIAL. S BEEN FOUND TO BE CONT					
	OF CONTAMINATED SOIL IN I, IF ANY. CONTRACTOR TO	THE	\sim			
TE WITH ATLANTA DSAL, IF NEEDED.	DWM TO DETERMINE SOIL T	ESTING				
				REMOVE 70 LF FENC		
			∧ -			
	CONTRACTOR SHALL RELOCATION OF OVER			270		
	POLE PRIOR TO CONS					
		(
	- REMOVE AND REPLAC	E 86	\backslash			
	LF OF 8' SECURITY CHA		\sim			
		905				
						8800
*	1					
+	x l					
	8					
	Tall and the second sec					
	DE	EMOLISH 336 L.F.	OF CHAIN LINK FENCE			A A A A A A A A A A A A A A A A A A A
	8888					Ϋ́, Ϋ́, Ϋ́, Ϋ́, Ϋ́, Ϋ́, Ϋ́, Ϋ́,
		95		 DEMÓLISH AND HAUL-OFF OF ASPHALT AND DEBRIS, 		, REMOVE TREES
	877.13.13			PRIOR TO CONSTRUCTION		
	MINIMUM STATES	1.73 E36" RCP				
		DILAPIDATED S' CLF	E		OVE	
	N	DOD LIK MENT		27 L.F. OF 48" I		BB0
	1 V-8x1.45 36	RCP				
					INV 1-75 59 48" RCP-	880
CRZ RADIUS (FT)	WORK TO BE PERFORMED		North Contraction of the second secon		B84.914" RCP	888
30	REMOVE					
7 11	REMOVE REMOVE	-890	LEWER BUR		-905	890 890
34	TREE TO REMAIN		Marker Const		910 905	AUGULAN A CARACTER AND A CARACTER AN
19	TREE TO REMAIN				-915-	
28	TREE TO REMAIN				-92\$-	
22			STREET			925
8	TREE TO REMAIN					

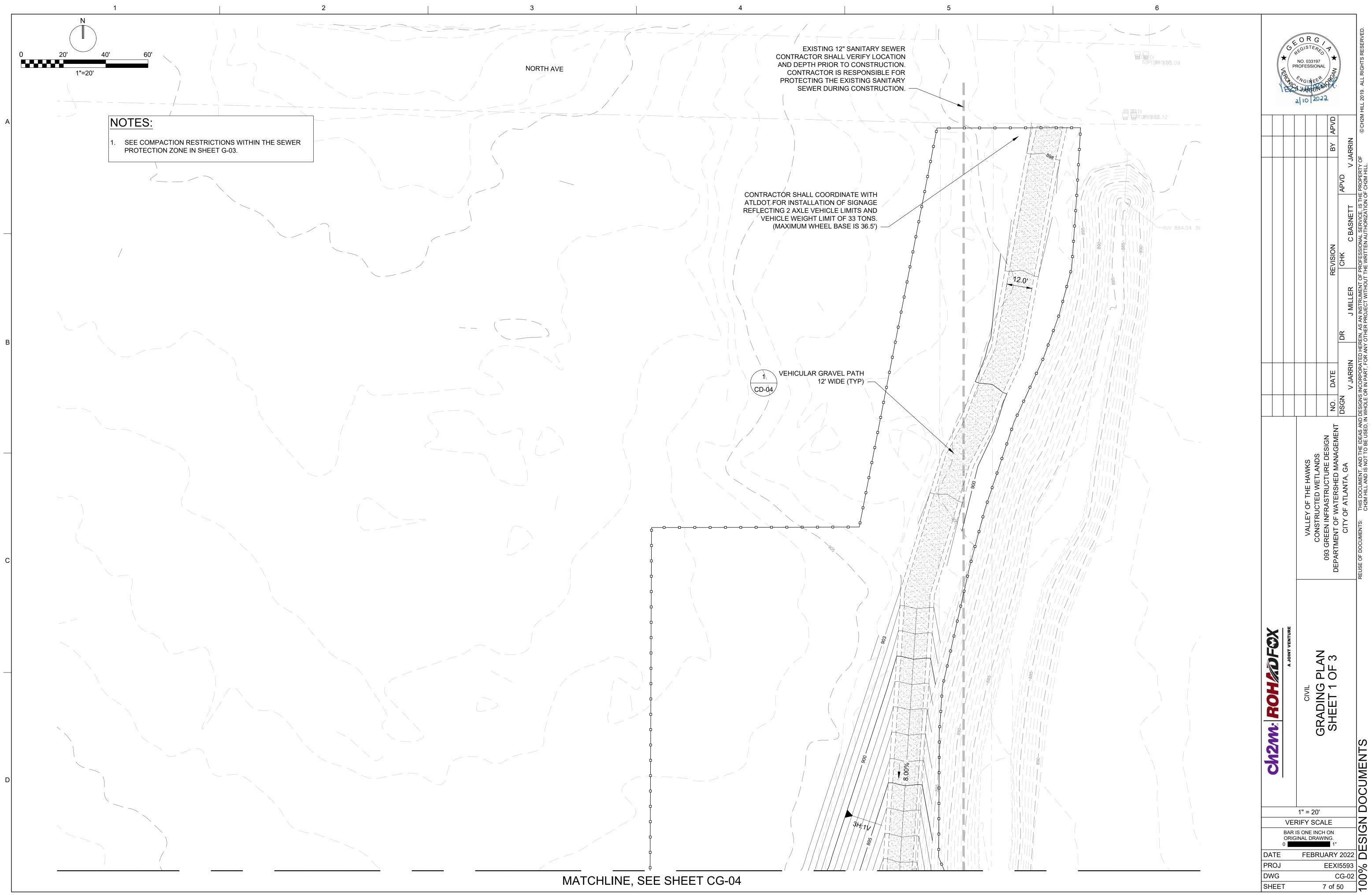




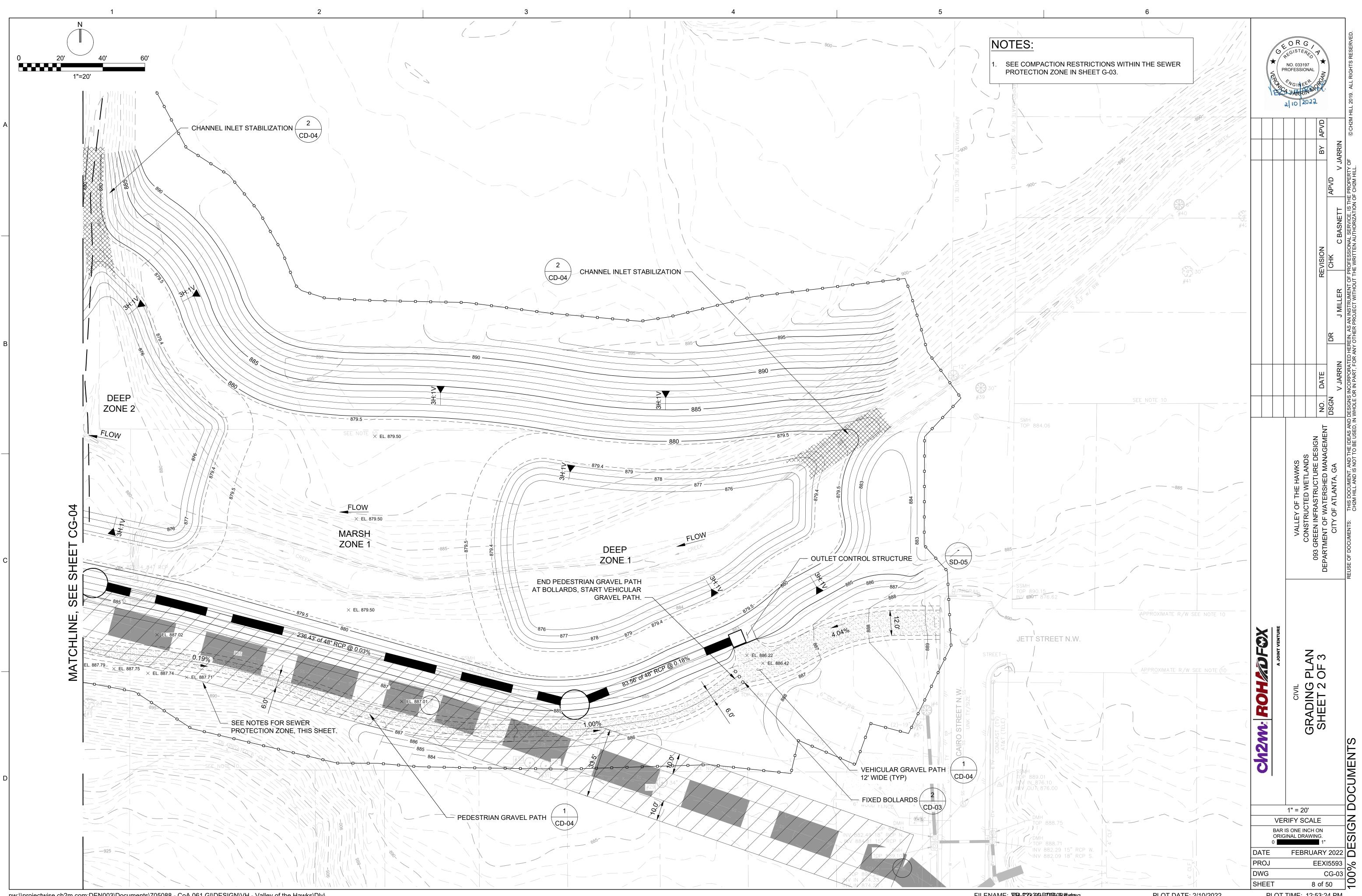
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PLOT DATE: 2/10/2022

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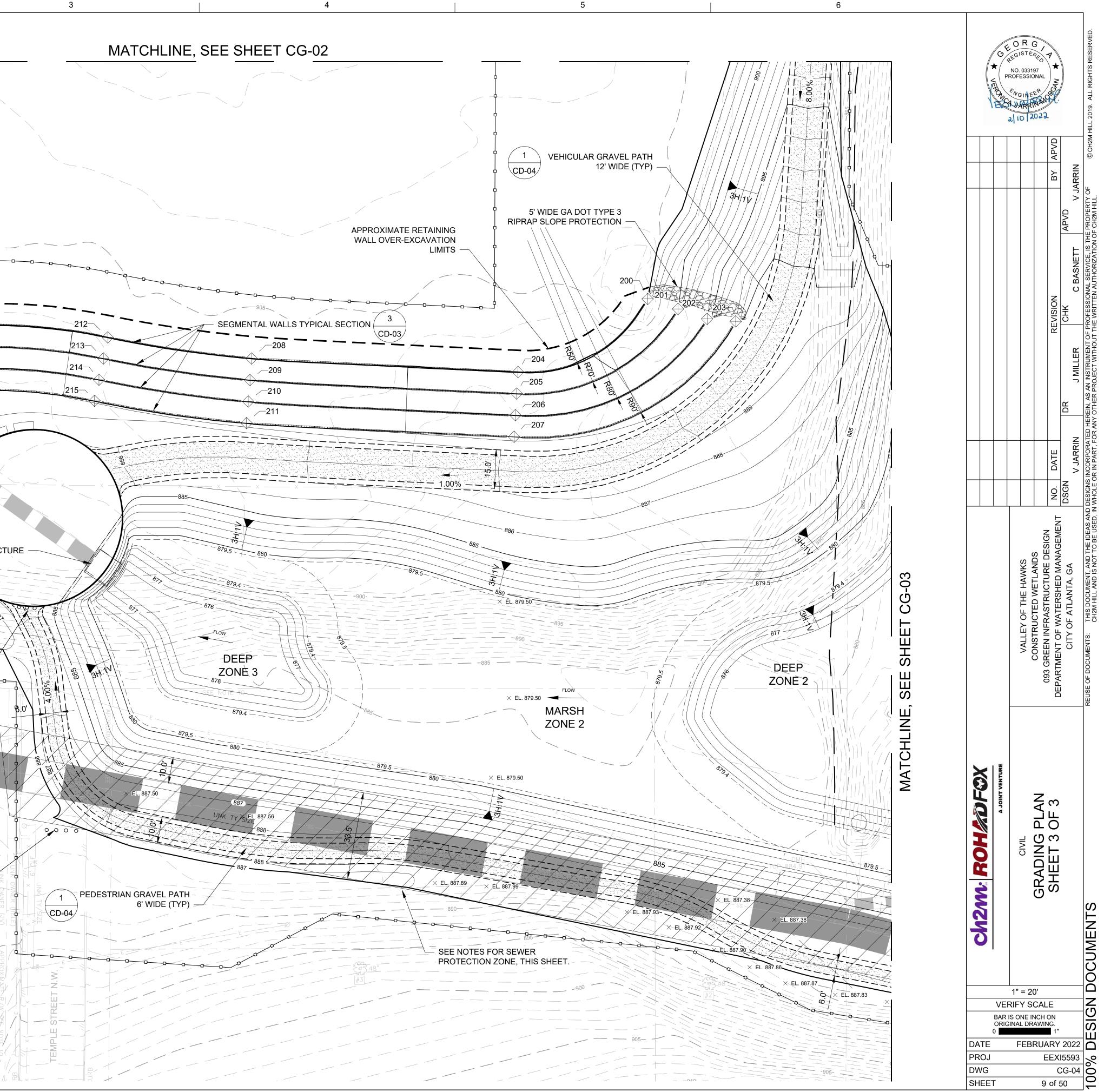
pw:\\projectwise.ch2m.com:DEN003\Documents\705088 - CoA 061 GI\DESIGN\VH - Valley of the Hawks\Dlv\

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PLOT DATE: 2/10/2022

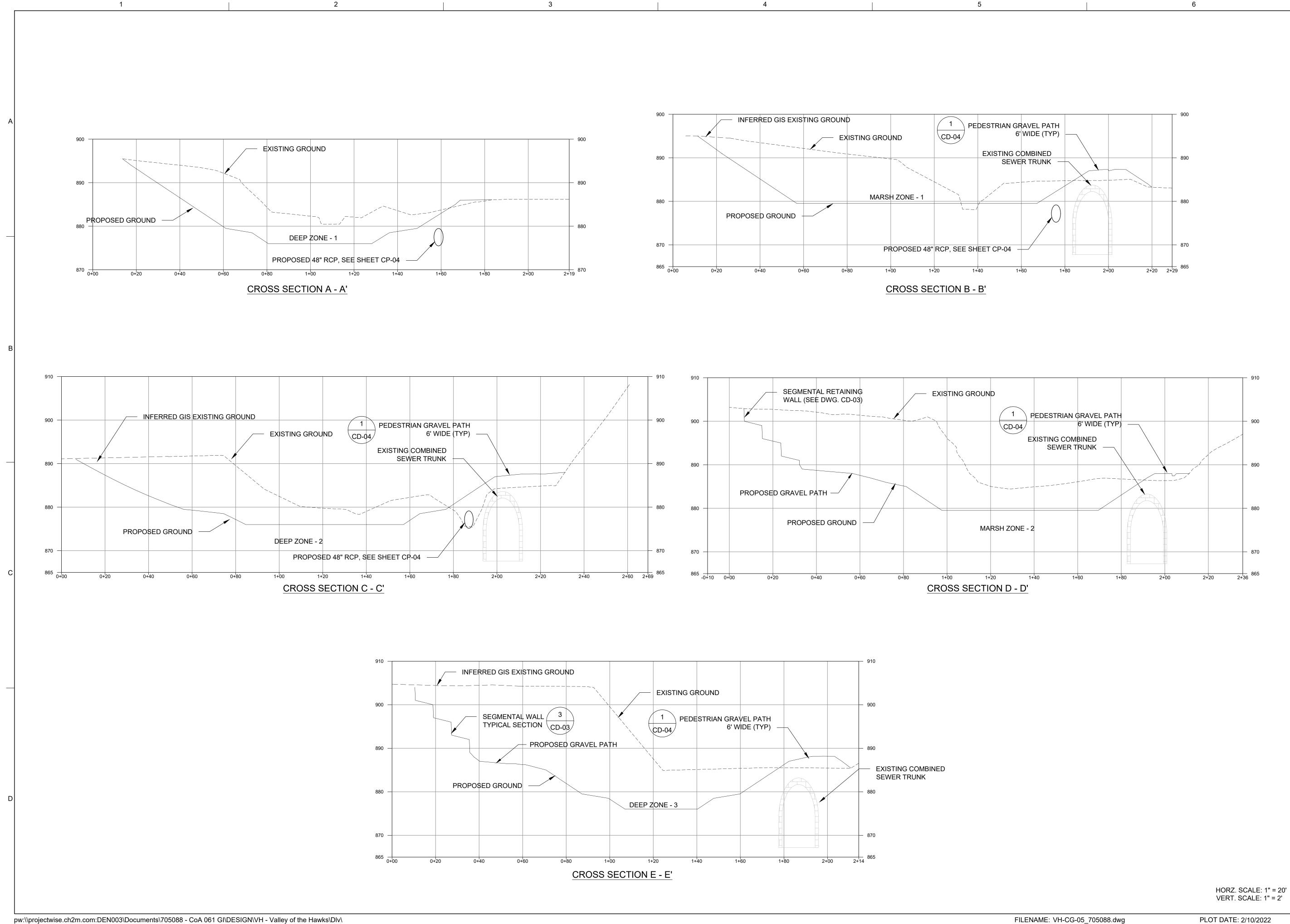
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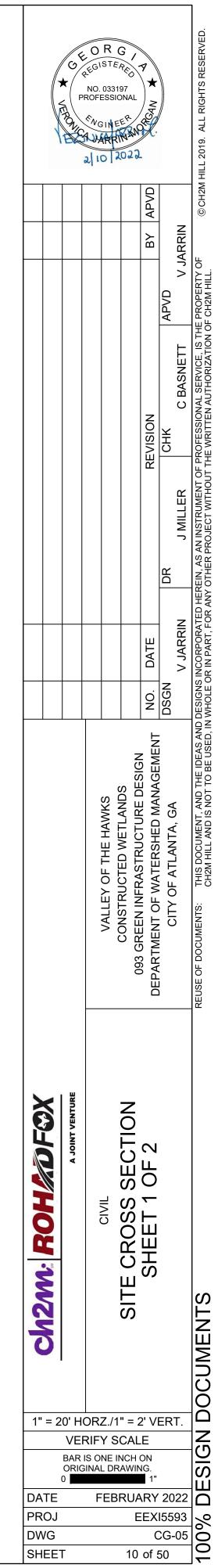
	N)					
	20'	40'	60'		۰. ۱		
	1"=20'						
	C		T TABLE				
PNT NO.	NORTHING	EASTING	DESC.	WALL TOP ELEV.		Ĺ	
200	1370671.06	2219208.80	WALL-1	904.00	`\		` ~ ``
201	1370667.20	2219220.52	WALL-2	900.00			
202	1370663.36	2219231.70	WALL-3	896.00			
203	1370662.43	2219242.71	WALL-4	892.00			
204	1370642.91	2219158.88	WALL-1	903.00			\backslash
205	1370634.60	2219158.35	WALL-2	899.00	a la		\setminus \sim \sim
206	1370626.28	2219157.90	WALL-3	895.00			
207	1370617.96	2219157.36	WALL-4	891.00		2	
208 209	1370648.11 1370639.81	2219056.28 2219055.65	WALL-1 WALL-2	904.00			NEW 72" RCP
209	1370639.81	2219055.65	WALL-2	896.00		/	
210	1370623.24	2219054.98	WALL-3	890.00	100 J		216
212	1370656.24	2219000.88	WALL-1	904.00			217
212	1370648.12	2218999.18	WALL-2	900.00			217
214	1370639.96	2218997.49	WALL-3	896.00			218
215	1370631.80	2218995.80	WALL-4	892.00			219
216	1370659.50	2218931.77	WALL-1	903.00			
217	1370651.09	2218932.74	WALL-2	899.00	it.		88
218	1370642.86	2218933.37	WALL-3	895.00			
219	1370634.14	2218933.57	WALL-4	891.00			
220	1370582.09	2218862.52	WALL-4	901.00	† i /	- × [} [
221	1370585.47	2218878.91	WALL-3	897.00		-222	223
222	1370587.54	2218892.96	WALL-2	893.00	220		
223	1370588.76	2218905.01	WALL-1	889.00			
224	1370569.91	2218862.77	WALL-4	898.00	224		1 PRIMARY CONTRUST SD-01, 02, 03 $ +$ $-$
225	1370559.69	2218879.70	WALL-3	894.00		-225	
226	1370543.50	2218896.40	WALL-2	890.00			
227	1370536.77	2218911.56	WALL-1	888.00		226	
				880-			-297
	OF PIPES FOUND				/		
	NOTE 35				RCP	E	
				- 25		DATED 6' CLF	FIXED BOLLARD -
				T SS			CD-03 ×
						SS	t e t
			^				
							UNK QUAVER (TV)
			/	SP .		/ -	
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		1.		PACTION RESTRIC	IONS WITHIN THE S G-03.	SEWER	
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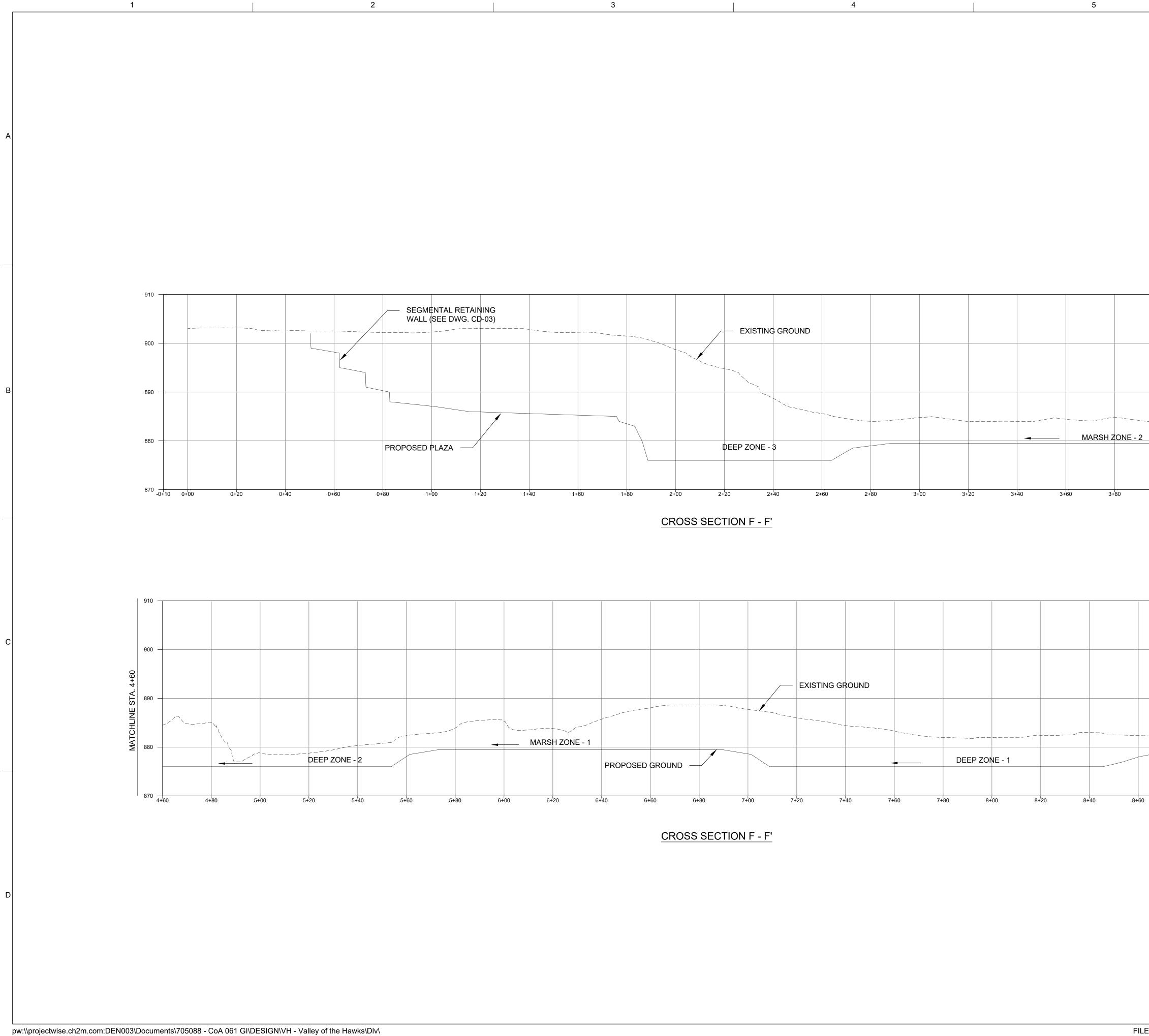
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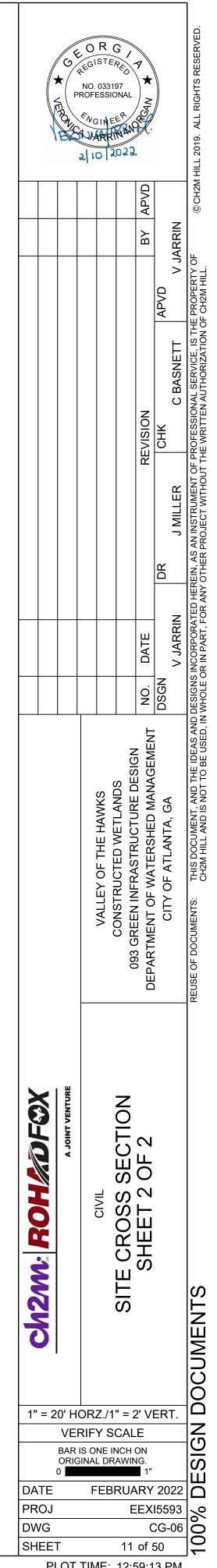
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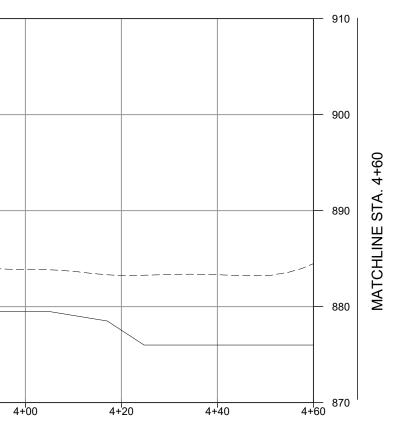




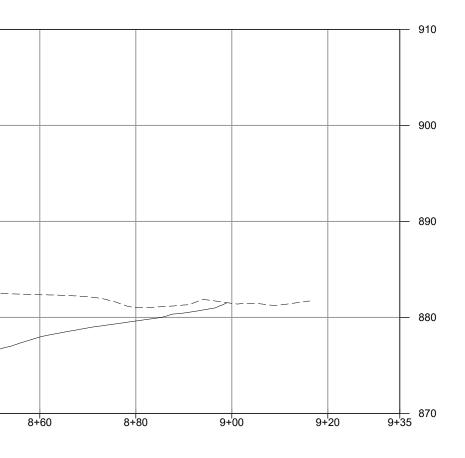
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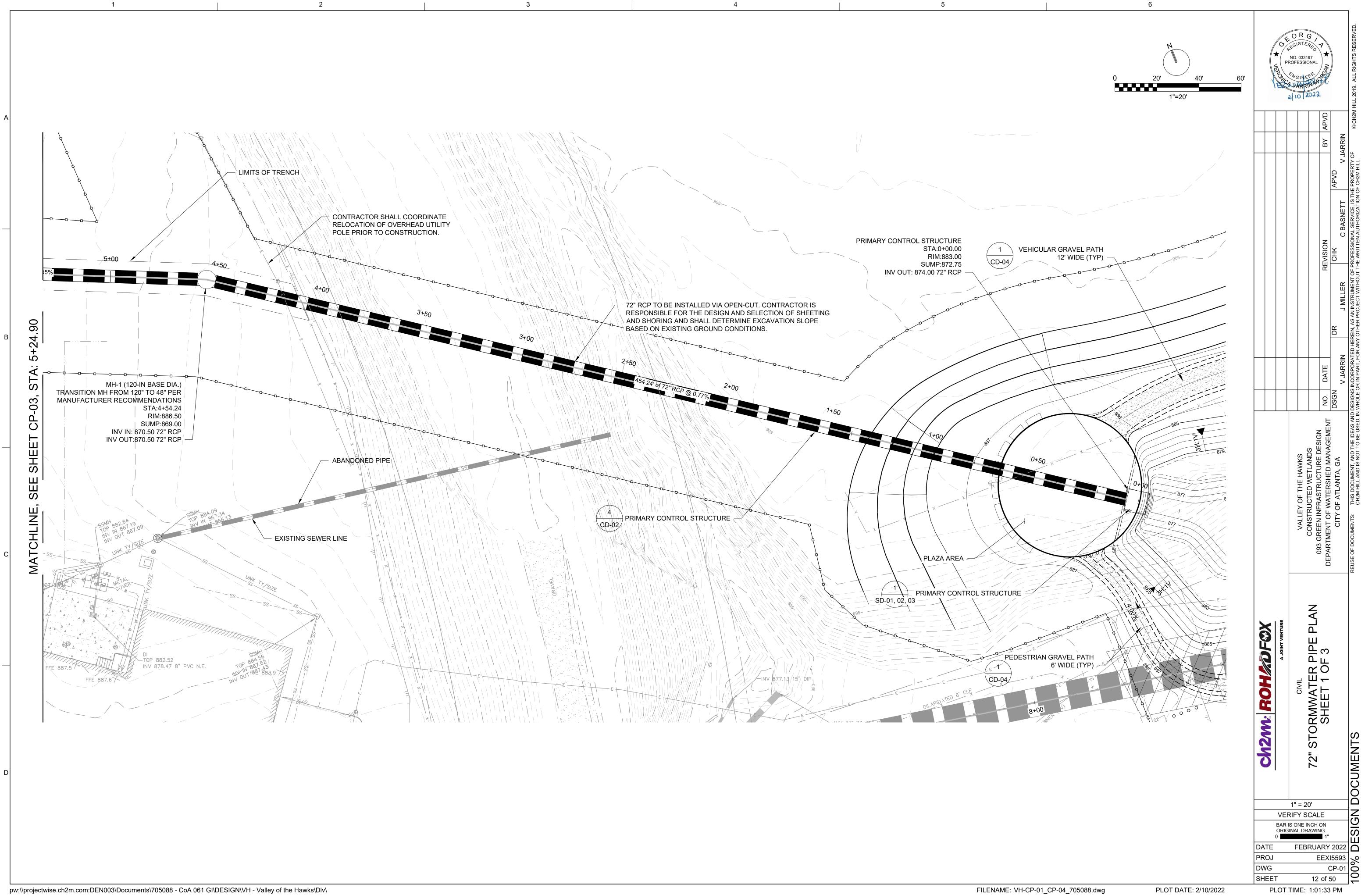


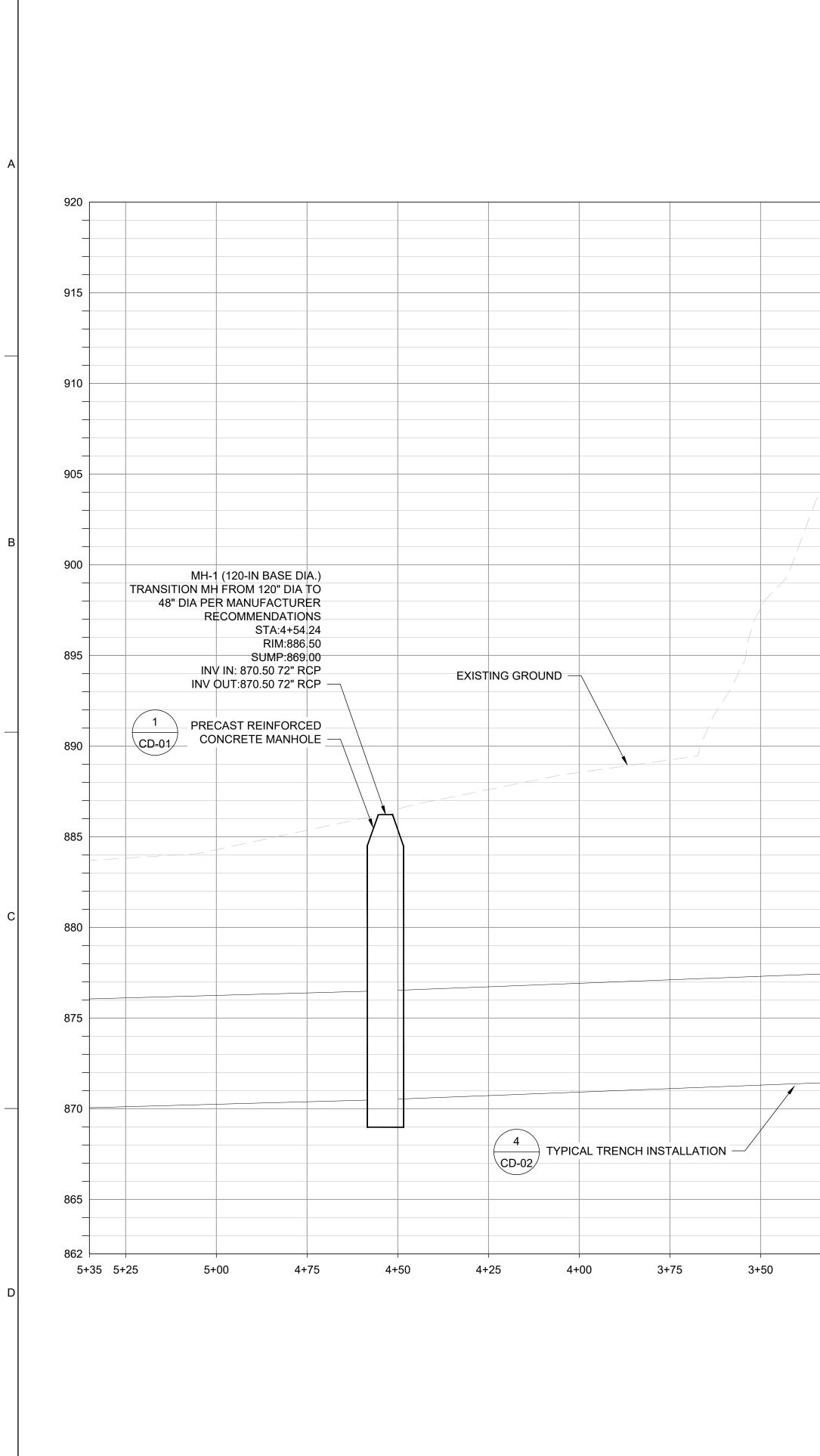
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HORZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'

PLOT TIME: 12:59:13 PM





2

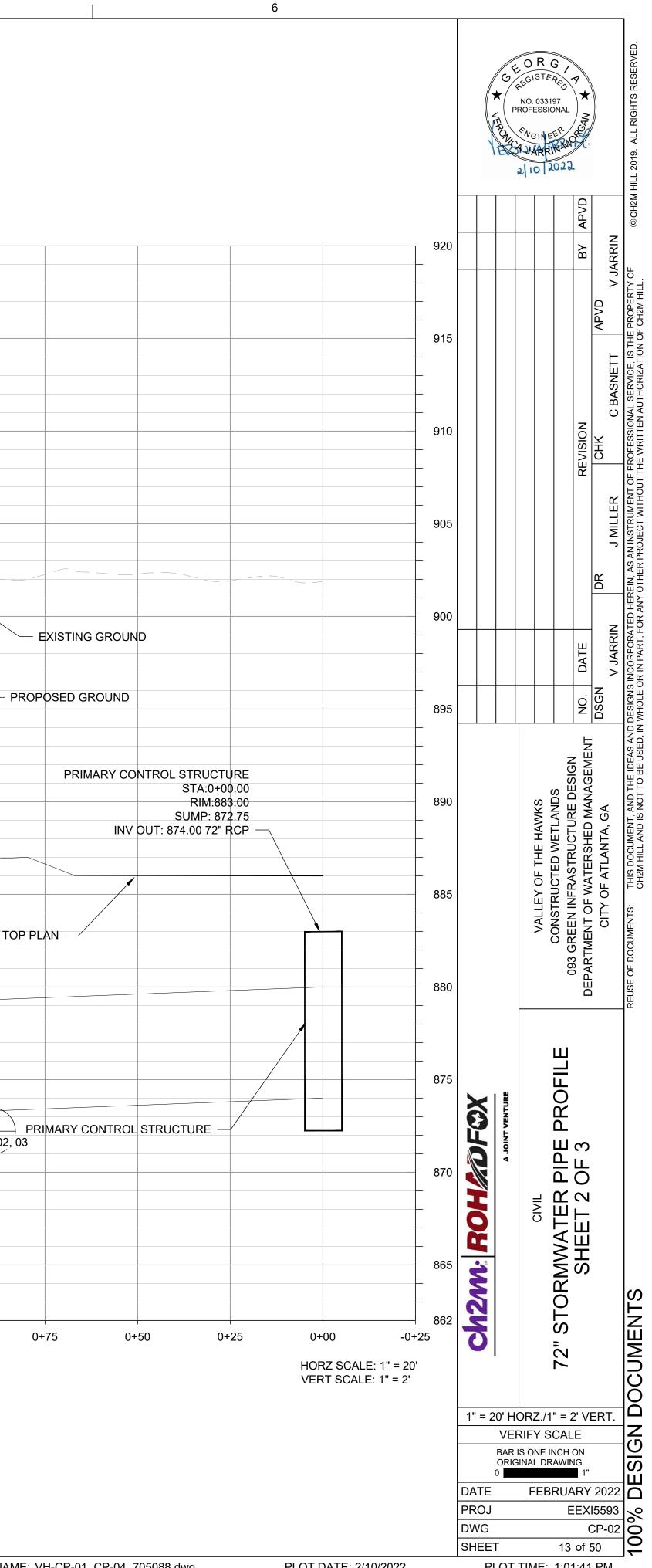
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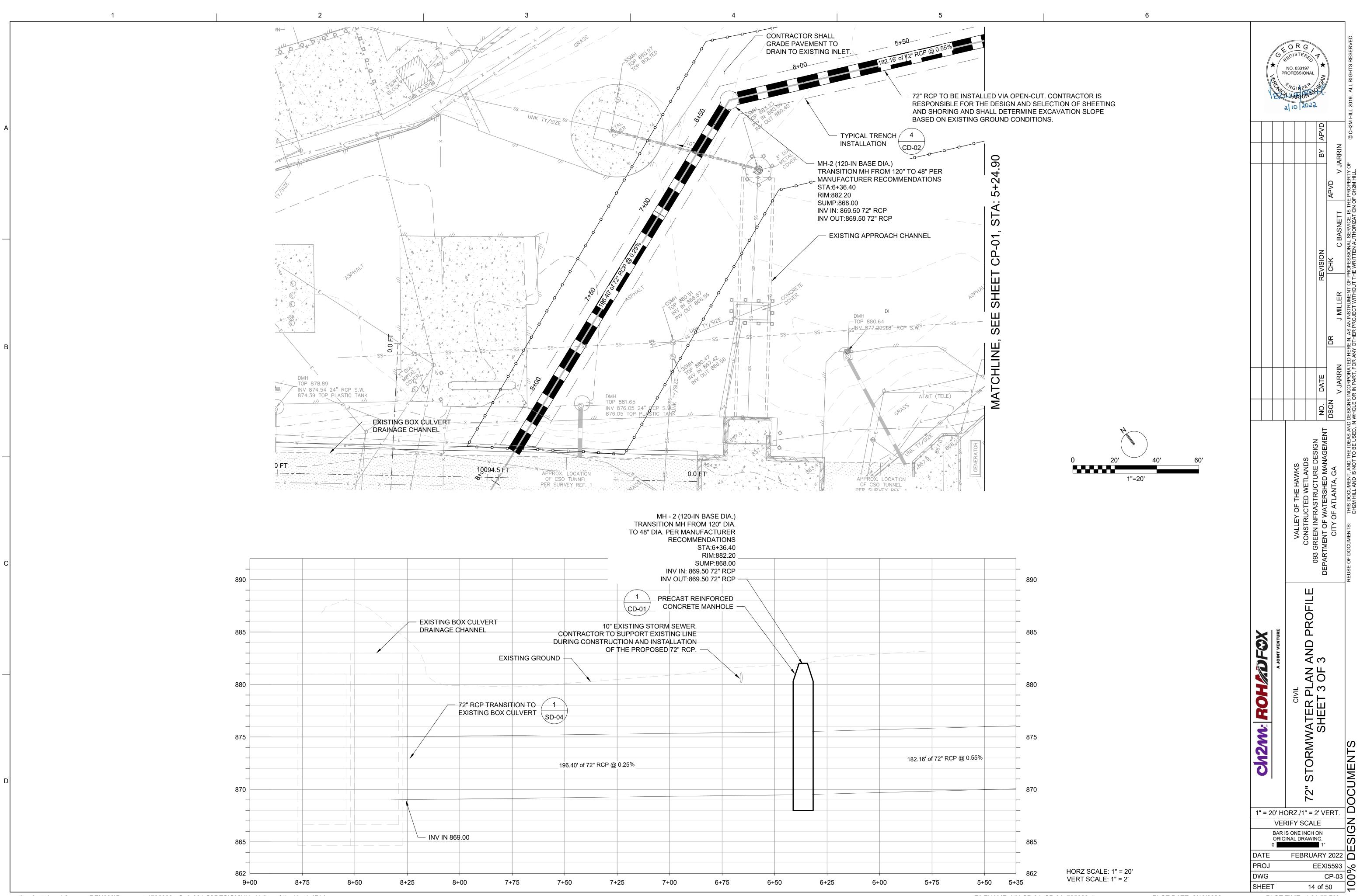
				EX	STING GROUND					
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							S	D-01	CONTROL STRUC	CTURES, TO
				454.24' of 72" F	RCP @ 0.77%					
										SD-01, 02, 0
					IA OPEN-CUT. CO		NG			
			AND SHORI	NG AND SHALL D	ETERMINE EXCA		-			
			BASED ON E		D CONDITIONS.				<u> </u>	
3+	25 3+	+00 2·	+75 2+	-50 2-	+25 2+	-00 1-	+75 1+	-50 1-	+25 1+	00

4

5



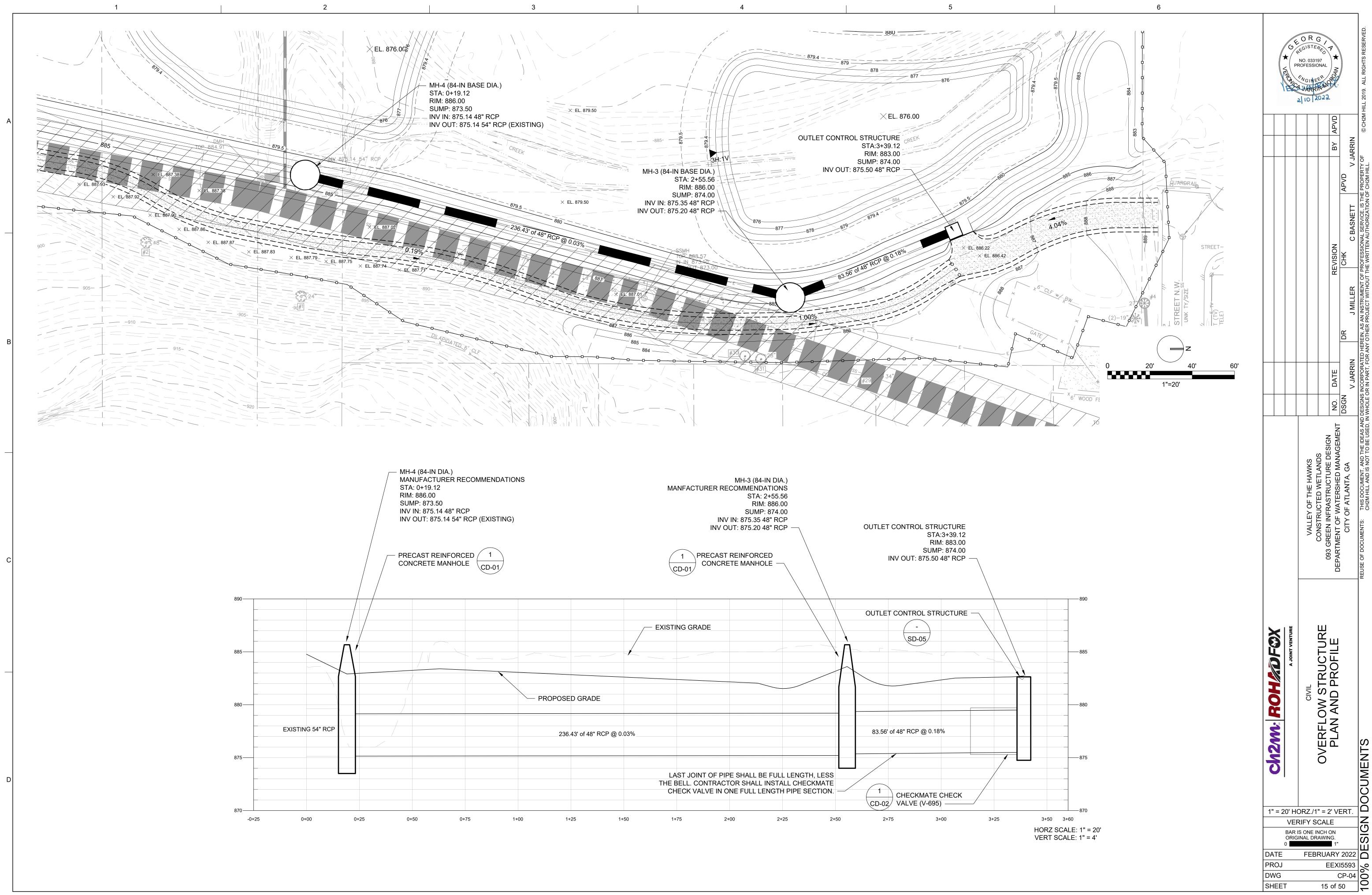
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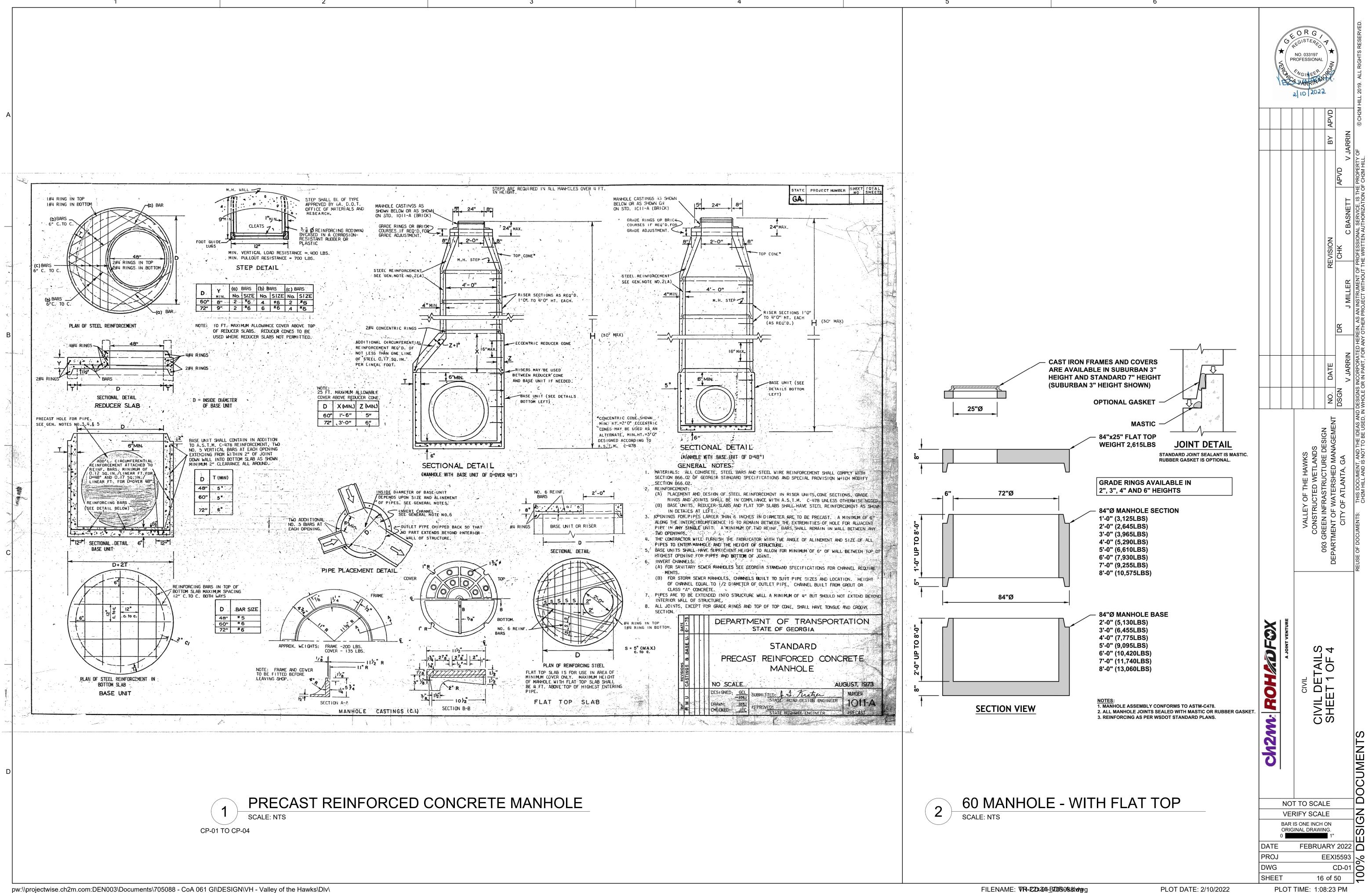
FILENAME: VH-CP-01_CP-04_705088.dwg

PLOT DATE: 2/10/2022

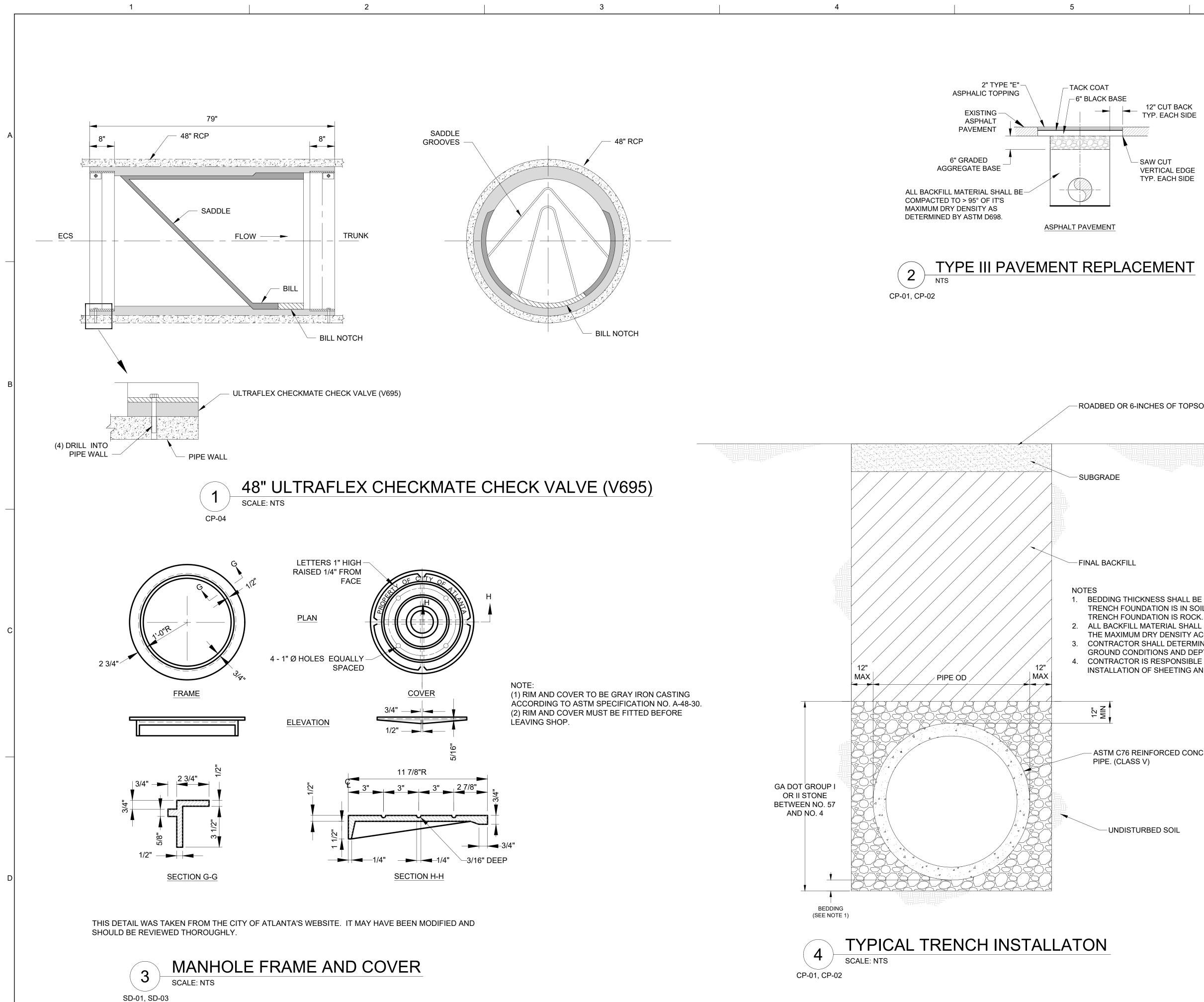
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PLOT TIME: 1:02:05 PM



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VEF BAR ORIG	A JOINT VENTURE						S HERONIC
RIF IS O INA							O LEGINO. ROFI
Y S NE I L DF		VALLEY OF THE HAWKS					O331 ESSIG
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.E ON NG. ∎ 1" ARY			NO. DATE	E C	REVISION	BY APVD	CAN + A
155 CD-			DSGN	DR	CHK	APVD	
			V JARRIN	J MILLER	C BASNETT	V JARRIN	
100% DESIGN	DOCUMENTS	REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED. IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.	DESIGNS INCORPORATED H	HEREIN, AS AN INSTRUMENT OF F NY OTHER PROJECT WITHOUT TI	F PROFESSIONAL SERVICE, IS THE PROPERTY THE WRITTEN AUTHORIZATION OF CH2M HILL		© CH2M HILL 2019. ALL RIGHTS RESERVED.

12" CUT BACK TYP. EACH SIDE

6

- SAW CUT VERTICAL EDGE TYP. EACH SIDE

ROADBED OR 6-INCHES OF TOPSOIL

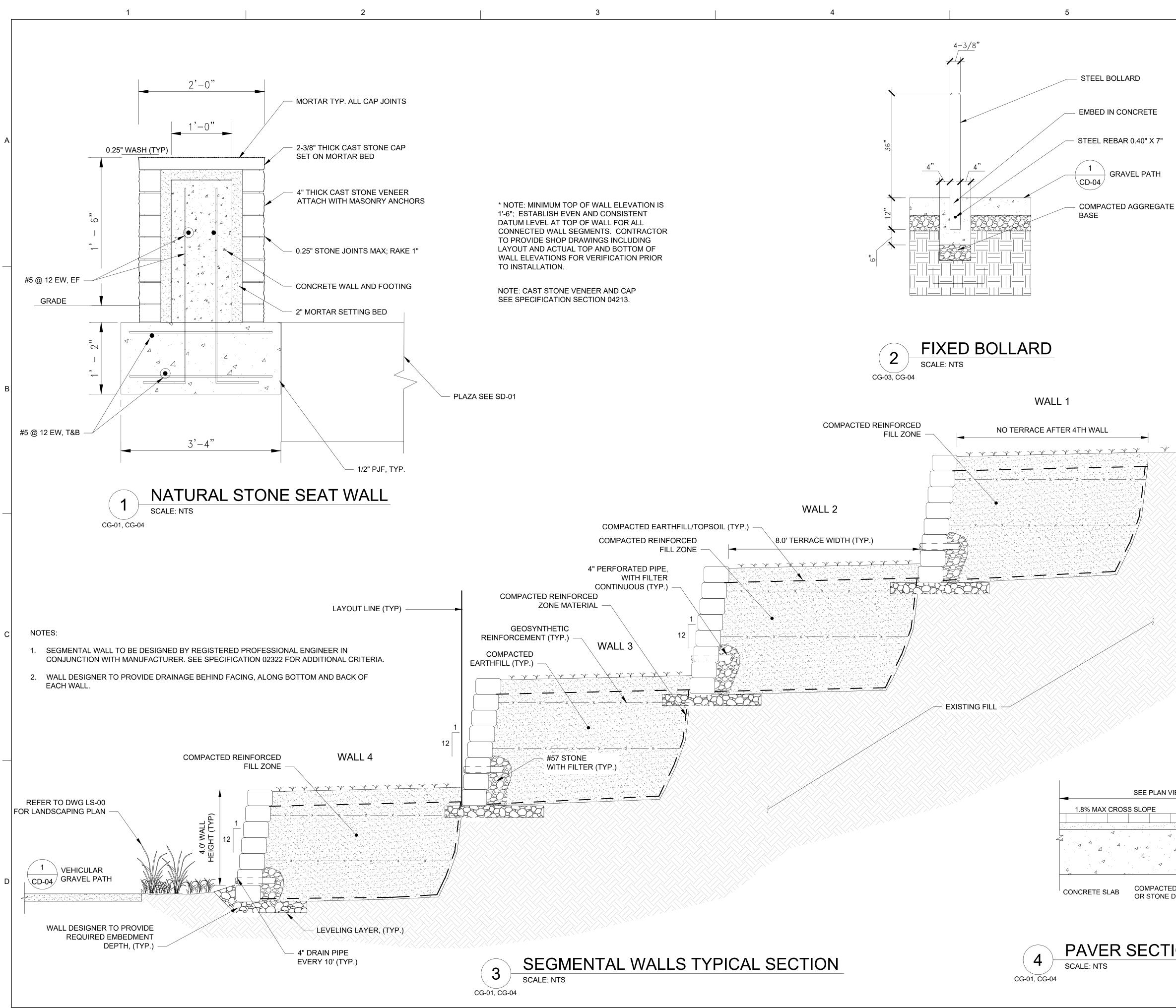
1. BEDDING THICKNESS SHALL BE A MINIMUM OF 6 INCHES WHEN THE TRENCH FOUNDATION IS IN SOIL AND 12 INCHES WHEN THE

2. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY ACCORDING TO ASTM D698 CONTRACTOR SHALL DETERMINE EXCAVATION SLOPE BASED ON

GROUND CONDITIONS AND DEPTH OF TRENCH. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, SELECTION AND INSTALLATION OF SHEETING AND SHORING.

ASTM C76 REINFORCED CONCRETE

- UNDISTURBED SOIL



FEBRUJAARY 2022

EEXI5593

AS SHOWN

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

Ch2m. ROH DFOX

DATE

PROJ

DWG

SHEET

PAVER SECTION INSTALLATION DETAIL

COMPACTED SHARP CONSTRUCTION SAND OR STONE DUST OVER FILTER FABRIC

SEE PLAN					
S SLOPE					GRADE WHERE OCCURS
					SEE PLAN
					000000
e e e primera de la composición de la c					
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CONCRETE PAVERS SEE PLAN VIEW



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VALLEY ONSTRI EEN INF ENT OF V

CIVIL DETAILS SHEET 3 OF 4

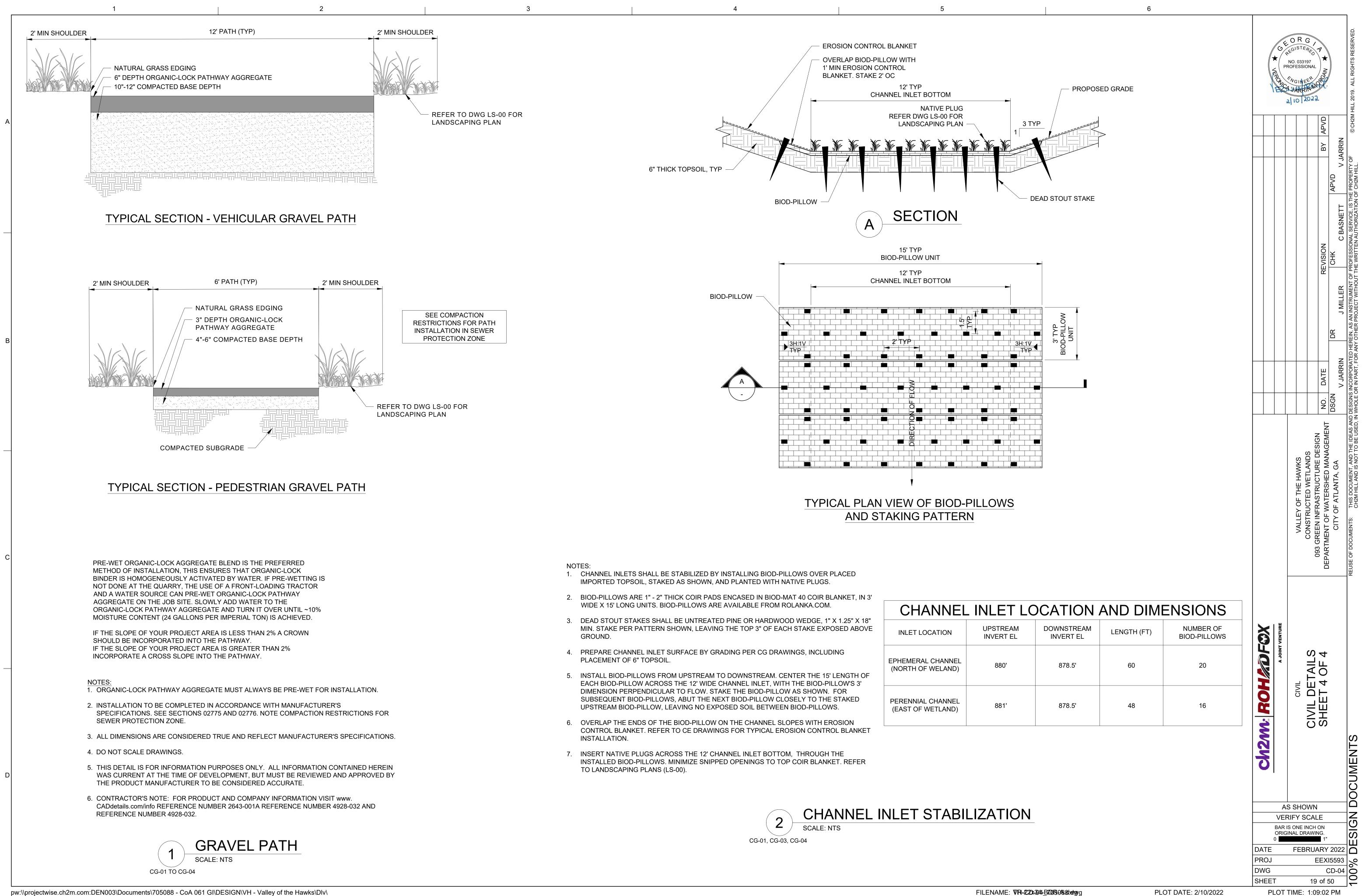
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SIGN

C

GRAVEL PATH



CHANNE	L INLE
INLET LOCATION	UPSTI INVEF
EPHEMERAL CHANNEL (NORTH OF WELAND)	88
PERENNIAL CHANNEL (EAST OF WETLAND)	88

PLOT TIME: 1:09:02 PM

	1	2			3								4	
	DESIGN CR	ITERIA					FOL	JND		ONS	5			
1	1. APPLICABLE CODE: 2018 INTERNATIONAL BUILDING CODE (IB AND APPLICABLE LOCAL AGENCIES.	C), AS AMENDED BY THE STATE OF GEORGIA IN 2020		REFER TO GEO HAWKS (PN # C										EY OF TH
2	2. REFER TO THE DRAWINGS FOR ADDITIONAL AND SPECIFIC S	TRUCTURE LOADINGS AND REQUIREMENTS.		EXCAVATIONS				SUBSI			IAGE TO	ADJACE	NT EXIS	STING
3	3. ALL LOADS SHOWN ARE SERVICE LEVEL (UNFACTORED) UNL	ESS SPECIFICALLY NOTED OTHERWISE.		STRUCTURES, FOUNDATION S	·	·			JNDATIC	NS SPF		Y NOTE	D TO BF	ON FILL
4	4. DEAD LOADS: SELF WEIGHT			BEAR ON - MIN 6 IN	ICHES OF COM	PACTED	GRANUL	AR FILL	UNLESS	OTHER	WISE NO	DTED.		
5	5. LIVE LOADS: PRIMARY CONTROL STRUCTURE	= 300 PSF DISTRIBUTED LOAD OR,		OF COM	ATE PRIMARY C	ULAR FI	LL.							O ALLOW
		43,000LB VAC TRUCK (MAX 29,000LB AXLE) CONCENTRATED LOAD			COMPACTED C									
	OUTLET CONTROL STRUCTURE ELEVATED SLAB	= A-8 (H10-44)		FOUNDATION B DESIGNEE PRIC IF THE ACTUAL	OR TO PLACEM	ENT OF I	FORMWO	RK OR F	REINFOF	RCING S	TEEL. TH	IE OBSEI	RVATION	N SHALL Y
6	6. WIND LOADS: BASIC WIND SPEED (3-SECOND GUST)			NO BACKFILL S										
	Vult	= 113 MPH		AND TOP SUPP COMPRESSIVE	ORTING SLAB'S	S CONCR	RETE HAS	ATTAIN	ED 80 P	ERCENT	OF THE	IR SPEC	FIED 28	B DAY
	Vasd EXPOSURE CATEGORY	= 88 MPH = C		DIAPHRAGMS, I				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			0, 11020			H C C D
	RISK CATEGORY	=		NO BACKFILL S ATTAINED 100 F	PERCENT OF IT	S SPECI	FIED 28 D	AY CON	IPRESS	VE STRI	ENGTH. \	WHERE E	SOTH SI	DES OF V
7	7. SNOW LOADS: GROUND SNOW LOAD, Pg	= 5 PSF		WILL BE BACKF WALL.	ILLED, PROGR	ESS FILL	ON BOTH	H SIDES	AT INTE	RVALS	το Ανοιί	D DIFFEF	RENTIAL	LOADING
-			7.	USE OF EXPLO	SIVES IS ONLY	ALLOWE	D WITH V	VRITTEN		SSION F	ROM EN	GINEER.		
	8. SEISMIC LOADS (LANIER FILTER PLANT AND SHOAL CREEK FI MAPPED SPECTRAL RESPONSE ACCELERATIONS	LIER PLANT):												
	SA	= 0.185g = 0.086g			\sim		יחכי							
	DESIGN SPECTRAL RESPONSE ACCELERATIONS	= 0.197 g				JNC	RET					NG		
	SDS SD1 SITE CLASS	= $0.137g$ = D (ASSUMED)	1.	REINFORCING S TYPICAL:	STEEL:		ASTM A	\615, GF	RADE 60					
	SEISMIC DESIGN CATEGORY	= C		FABRICATION A										SI MSP-1 "
	IMPORTANCE FACTOR, le	= 1.25		MINIMUM REINF										
9	9. SOIL DESIGN PARAMETERS:		5.	THICKNES	<u>SS</u> <u>REINF</u>	50NCRE <u>EACH W/</u> 4@12"	<u> </u>	OCATIO	N	NULL DE	, .o i ULL			
	NET ALLOWABLE SOIL BEARING PRESSURES:	= 2500 PSF		8" 10"	#	5@12" 4@12"	С		ED					
	GROUND WATER (GW) ELEVATION AT TIME OF INVESTIGATIO	N = 877 FT		12" PROVIDE LARG	#	5@12"	E	ACH FA	CE	IS OF CC	ONCRETE	E WHERE	REQUI	RED BY T
	GROUNDWATER ELEVATION WILL FLUCTUATE SEASON	ALLY.		DETAILS ON TH										
	EQUIVALENT LATERAL FLUID PRESSURES:		4.		EN CAST AGAIN	IST EART		S SHOW	N OTHE	RWISE, 3 "	SHALL BI	E:		
	ACTIVE: DRAINED FLUID PRESSURE ABOVE GW ACTIVE: UNDRAINED FLUID PRESSURE BELOW GW	= 40 PSF/FT OF DEPTH = 82 PSF/FT OF DEPTH		BEA	LS AND SLABS	ND COLL			_	2" 2"				
	AT REST: DRAINED FLUID PRESSURE ABOVE GW	= 60 PSF/FT OF DEPTH								2 1/2"	TAU 000	0.000 M		
	AT REST: UNDRAINED FLUID PRESSURE BELOW GW	= 91 PSF/FT OF DEPTH = 2 FT OF SOIL WEIGHT		REFER TO WAL	SIZES AND SPA	CINGS S	HALL BE	AS SHO	WN ON	THE DRA	AWINGS	AND REF	ERENC	ED TO TH
-	VERTICAL SURCHARGE: EARTH PRESSURE COEFFICIENTS:			11 TYPICAL HORIZ										ORCING.
	ACTIVE, Ka AT REST, Ko	= 0.33 = 0.50		WALL CORNER				·						
	PASSIVE, Kp	= 3.00		AND THROUGH	COLUMNS OR	PILASTE	RS. REIN	IFORCE	MENT S	HALL BE	EXTEND	DED INTO) CONNE	ECTING V
	COEFFICIENT OF FRICTION:	= 0.36		WALL FOOTING										
	SOIL UNIT WEIGHT	= 120 PCF		FOOTINGS AND REINFORCEME	NT SHALL BE L	APPED V	VITH COR	NER BA	RS. ALL					
	10. FROST DEPTH:	= 12 IN		CONTINUOUS T										
	<u>GENERAL INFC</u>	RMATION	-	LAP VERTICAL	SLAB REINFOR	CEMENT	PROVID		IMUM C	F FOUR	FULL HE	EIGHT VE	RTICAL	BARS WI
; 1	1. FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVI DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL EN			REINFORCING									CHITP	ICAL VEP
2	2. DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL A		10.	LOCATE ELEVA	TED SLAB AND	BEAM T	OP BAR S	PLICES	AT MID	SPAN AN		OM BAR	SPLICES	S AT SUP
	THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE IN			REINFORCING SUPPORTS WIT	TH SPACERS TO) KEEP F	REINFORC	ING AB	OVE THE					
3	3. VERIFY FINAL OPENING DIMENSIONS IN DECKS WITH OTHER D OF THESE ELEMENTS.	ISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION		GRADE DURING	G CONCRETE P	LACEME	NT IS NO	T PERMI			•			
4	4. FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR			REFER TO OPE										AUD 1
	COORDINATE PIPING OPENINGS WITH OTHER DISCIPLIER PRIOR			REINFORCEME		LAPS, U	INLESS O	IHERW	ISE NOT	ED, SHA	ALL SATIS	SFY THE	FOLLOV	wing MIN
5	5. DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, APPROVED IN WRITING BY THE ENGINEER.	DUCTS, ETC, UNLESS SPECIFICALLY DETAILED OR		CONCRETE DES	IGN STRENGTH	= 4,000 F	SI MIN AT	28 DAY	S ³ GF	RADE 60	REINFOR	CING ST	EL	
6	6. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE	CONSTRUCTION DO NOT IN ANY WAY MEAN THAT		BAR SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
	ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR F SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SA	ESPONSIBLE FOR THE COMPREHENSIVE OR		LAP SPLICE LEN SPACING = 3"		A 2 A 33	1' 0"	0, 4,,	2' 0"	E' 0"	6' 0"	0' 0"	10' 10"	`13'-4"
7	7. INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, A			SFAUING = 3"	TOP BAR ² OTHER BAR	1'-4" 1'-4"	1'-8" 1'-4"	2'-1" 1'-8"	3'-0" 2'-4"	5'-2" 4'-0"	6'-8" 5'-2"	8'-6" 6'-7"	10'-10" 8'-4"	13'-4"
	CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DES REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONT ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES.	RACTOR SHALL FIELD VERIFY DIMENSIONS,		SPACING = 4"	TOP BAR ²	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"	10'-0"
	ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES I AFFECTED BY THE EXISTING STRUCTURE. NOTIFY ENGINEER TO STARTING WORK			SPACING ≥ 6"	OTHER BAR	1'-4"	1'-4" 1'-8"	1'-7" 2'-0"	1'-10" 2'-5"	3'-0" 3'-6"	3'-11" 4'-0"	4'-11" 5'-0"	6'-3" 6'-2"	7'-8" 7'-5"
	INSPECTION AN			ט אווטא יס	TOP BAR ² OTHER BAR	1'-4" 1'-4"	1'-8" 1'-4"	2'-0" 1'-7"	2'-5" 1'-10"	2'-9"	4 [°] -0 ^{°°} 3 [°] -1 ^{°°}	3'-10"	4'-9"	7'-5" 5'-8"
1	1. SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RES			EMBEDMENT LE	I INGTH									
	BUILDING OFFICIAL. THE CONTRACTOR SHALL SCHEDULE BO			SPACING = 3"	TOP BAR ²	1'-0"	1'-3"	1'-8"	2'-4"	4'-0" 2' 1"	5'-2"	6'-7"	8'-4"	10'-3"
2	 SPECIFIED CONCRETE AND OTHER MATERIAL TESTING RELAT WILL BE OWNER FURNISHED. 	ED TO SPECIAL INSPECTION DURING CONSTRUCTION		SPACING = 4"	OTHER BAR TOP BAR ²	1'-0" 1'-0"	1'-0" 1'-3"	1'-3" 1'-7"	1'-10" 1'-10"	3'-1" 3'-0"	4'-0" 3'-11"	5'-1" 4'-11"	6'-5" 6'-3"	
3	3. SPECIFIED LABORATORY TEST MIXES AND SIMILAR TEST RES	JLTS TO VERIFY MATERIAL QUALITY AND			OTHER BAR		1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"	5'-11"
	CONFORMANCE TO SPECIFICATIONS, AND SUBMITTED FOR RI PROJECT, SHALL BE THE RESPONSIBILITY OF THE CONTRACT	EVIEW PRIOR TO ACCEPTANCE FOR USE ON THE		SPACING ≥ 6"	TOP BAR ²	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
4	4. SPECIAL INSPECTION, TESTING AND OBSERVATION (OWNER F	URNISHED) IS REQUIRED IN ACCORDANCE WITH IBC		1 1 4 0 1 5 1 2				1'-3"	1'-5"	2'-1"		3'-0"	3'-8"	4'-5"
	SECTIONS 110 AND 1704 AS INDICATED IN THE STATEMENT OF				THS ARE BASE		NIMUM CO ER LESS ⁻			:к UF 2".	LONGE	≺ LENGT	HS ARE	

												REVIE
 MIN 6 INCHES OF COMPA EXCAVATE PRIMARY COM OF COMPACTED GRANUL MIN 12" COMPACTED GRANUL 	NTROL LAR FIL	STRUCI L.	FURE AN	D OUTLE	ET STRU	CTURE /	AS REQL		D ALLOW	/ MIN 6"	4.	CONT AND L SIMIL
JNDATION BEARING SURFAC SIGNEE PRIOR TO PLACEMEN HE ACTUAL EXPOSED SUBGE	ES SHA NT OF F	ALL BE O) BSERVE)RK OR F	ED BY TH	IE GEOT CING ST	ECHNIC	AL ENGII E OBSEI	NEER OF	N SHALL	VERIFY	5.	VERIF
BACKFILL SHALL BE PLACED D TOP SUPPORTING SLAB'S C MPRESSIVE STRENGTH, OR U PHRAGMS, HAVE BEEN COMF	CONCRI	ETE HAS OP-OF-V	S ATTAIN	ED 80 PI	ERCENT	OF THE	R SPEC	IFIED 28	DAY	CENT	1.	STRU DESIO STRU CONS
BACKFILL SHALL BE PLACED AINED 100 PERCENT OF ITS L BE BACKFILLED, PROGRES	SPECIF	IED 28 D	DAY COM	IPRESSI	VE STRE	ENGTH. \	VHERE E	BOTH SII	DES OF V	WALL	2.	OTHE TEMP 80 PE
E OF EXPLOSIVES IS ONLY AL	LOWEI	D WITH V	WRITTEN	I PERMIS	SSION FI	ROM EN	GINEER.				3.	"BUR SLAB THIC
<u>CO</u>	NC	RE1	ΓE R	REIN	FOF	RCIN	<u>IG</u>				1.	28-DA
NFORCING STEEL: TYPICAL:		ASTM A	4615, GF	ADE 60								
BRICATION AND PLACEMENT STANDARD PRACTICE"AND A		NFORCII	NG STEE	EL SHALL					I MSP-1	"MANUAL	2.	CONT STRU
8" #5@	<u>CH WA</u> 012" 012"	<u>Y</u> L C C	<u>OCATIO</u> CENTERE CENTERE	<u>N</u> ED ED	IALL BE	AS FOLL	OWS:				3.	CONS JOINT BE SL
		e Einforc		CE SECTION	S OF CO	NCRETE	WHERE	E REQUII	RED BY [.]	THE	4.	
NCRETE COVER FOR REINFO	RCING	, UNLES	S SHOW	N OTHE	RWISE, S	SHALL BI	Ξ:				5.	COOF INSEF
WHEN CAST AGAINST WALLS AND SLABS BEAM STIRRUPS AND BEAM AND COLUMN F	O COLU	MN TIES		3	3" 2" 2" 2 1/2"						6.	NO AL CONC
FER TO WALL CORNER AND V NFORCING SIZES AND SPACI PICAL HORIZONTAL WALL REI	NGS SI	HALL BE	AS SHO	WN ON ⁻	THE DRA	WINGS	AND REF	FERENC	ED TO T		7.	PATC
DEGREE BENDS, UNLESS OTH											1.	STRU
LL CORNER AND WALL INTER												STAIN
O THROUGH COLUMNS OR PIL PPED ON THE OPPOSITE FAC										WALLS AND	2.	ALUN
LL FOOTING CORNER AND IN DTINGS AND LAPPED ON THE												STRU PLAT
NFORCEMENT SHALL BE LAP NTINUOUS THROUGH COLUM	PED W	ITH COF	RNER BA	RS. ALL							3.	STRU CONS
P VERTICAL WALL BARS WITH WITH TOP SLAB REINFORCE TCHING DOWELS AT WALL EN NFORCING STEEL SHOWN OF	EMENT. NDS, CO	PROVII DRNERS	DE A MIN	IIMUM O	F FOUR TIONS W	FULL HE	IGHT VE	RTICAL	BARS W	ΊΤΗ	4.	FAST WHEF
CATE ELEVATED SLAB AND BI	-						OM BAR	SPLICES	S AT SUF	PORTS.		ANCH
NFORCING STEEL FOR FOOT PPORTS WITH SPACERS TO K	'INGS A KEEP RI	ND SLAI	BS ON G CING AB	RADE SI OVE THE	HALL BE	ADEQU	ATELY S	UPPORT	ED ON E	BAR		MACH
ADE DURING CONCRETE PLA				TIED.							5.	ITEM
ER TO OPENING REINFORCI NFORCEMENT BENDS AND LA QUIREMENTS:				ISE NOT	ED, SHA	LL SATIS	FY THE	FOLLOV	VING MIN	NIMUM	6.	NO H PERM
VCRETE DESIGN STRENGTH = 4	4,000 P	SI MIN AT	T 28 DAY	S ³ GR	RADE 60 I	REINFOR	CING STI	EEL		1		_
R SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11		1.	DEFE PERM
SPLICE LENGTH]		TO IN THE E
	41.47	4	a · · · ·		A 1 1 1				1 1 4 - 1 - 1 - 1		1	

SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
SPLICE LENG	TH									
CING = 3"	TOP BAR ²	1'-4"	1'-8"	2'-1"	3'-0"	5'-2"	6'-8"	8'-6"	10'-10"	`13'-4"
	OTHER BAR	1'-4"	1'-4"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
XING = 4"	TOP BAR ²	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"	10'-0"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
CING ≥ 6"	TOP BAR ²	1'-4"	1'-8"	2'-0"	2'-5"	3'-6"	4'-0"	5'-0"	6'-2"	7'-5"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
EDMENT LEN	ĠTH									
XING = 3"	TOP BAR ²	1'-0"	1'-3"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-10"	3'-1"	4'-0"	5'-1"	6'-5"	7'-11"
XING = 4"	TOP BAR ²	1'-0"	1'-3"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"	5'-11"
CING ≥ 6"	TOP BAR ²	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-1"	2'-5"	3'-0"	3'-8"	4'-5"

PRECAST

5

- PRECAST CONCRETE MEMBERS SHALL HAV
- DESIGN PRECAST PRESTRESSED CONCRET 2. PLANS, TO MEET REQUIREMENTS STATED UN TRANSPORTATION AND ERECTION.
- SUBMIT CALCULATIONS AND DRAWINGS STAI 3 REVIEW PRIOR TO FABRICATION.
- NTRACTOR SHALL BE RESPONSIBLE FOR) LOCATIONS, SPECIAL PICK UP REINFOR ILAR ITEMS.
- RIFY GEOMETRY OF INSERTS AND OPENIN FORMWORK, S
- CUCTURES SHOWN ON THE DRAWINGS HA SIGN SHOWN DOES NOT INCLUDE NECESS RUCTURES DURING CONSTRUCTION. CON NSTRUCTION ERECTION METHODS, BRAC HER WORK AIDS REQUIRED TO SAFELY PE
- MPORARY SHORING SHALL REMAIN IN PL PERCENT OF THE 28 DAY COMPRESSIVE
- JRY"BARS OR "CARRIER"BARS ARE NOT AL ABS AND ARE NOT ALLOWED FOR THE TOF CK.

CAST IN

- DAY COMPRESSIVE STRENGTHS (TO MEE PRIMARY CONTROL STRUCTURE: TYPICAL (UON): CONCRETE FILL:
- NTINUOUS WATERSTOP AS SPECIFIED SH UCTURES, CHANNELS, AND BELOW GRAD
- NSTRUCTION JOINTS INDICATED ARE SUG INTS, SUBJECT TO SPECIFIED REQUIREME SUBMITTED FOR REVIEW BY ENGINEER.
- UGHEN AND CLEAN CONSTRUCTION JOIN NCRETE.
- ORDINATE PLACEMENT OF OPENINGS, PIF SERTS PRIOR TO PLACEMENT OF CONCRE
- ALUMINUM CONDUIT OR PRODUCTS CON NCRETE SHALL BE EMBEDDED IN THE COM
- TCH FORM TIE HOLES IN ACCORDANCE W

METAI

- RUCTURAL STEEL SHALL CONFORM TO T MISCELLANEOUS SHAPES INCLUDING ANGLES, CHANNELS, PLATES, ETC. AINLESS STEEL SHAPES
- UMINUM SHALL CONFORM TO THE FOLLOW RUCTURAL SHAPES **ATES**
- RUCTURAL STEEL SHALL BE FABRICATED INSTRUCTION, CURRENT EDITION, AND CL
- STENERS SHALL BE HIGH STRENGTH BOL⁻ IERE SPECIFICALLY INDICATED OTHERWIS

CHOR BOLTS (AB) STAINLESS STÉEL

CHINE BOLTS (MB)

STAINLESS STEEL

- EMS TO BE EMBEDDED IN CONCRETE SHAL
- HOLES OTHER THAN THOSE SPECIFICALI RMITTED WITHOUT THE APPROVAL OF TH

DEFERI

- FERRED SUBMITTALS ARE THOSE PORTIC RMIT APPLICATION AND WHICH ARE TO BE INSTALLATION OF THAT PORTION OF THE THE ENGINEER.
- WHERE DEFERRED SUBMITTALS INCLUDE AD 2. CERTIFICATION OF COMPONENTS THAT REQ MEET CODE REQUIREMENTS, THE DEFERRE THE APPROPRIATE TABLES IN THE PROJECT ALREADY IDENTIFIED.
- THE FOLLOWING IS A LIST OF DEFERRED SU 3. EXPECTED TO CONTAIN STRUCTURAL CALC TO MEET BUILDING PERMITTING REQUIREME INDICATED STRUCTURAL ELEMENT, EQUIPM THE CONTRACTOR SHALL SUBMIT THE REQU **REVIEW AND ACCEPTANCE BY THE ENGINEE** COMMENT FORM, ALONG WITH THE COMPLE CONTRACTOR TO THE PERMITTING AGENCY

SPECIFICATION SECTION	CODE REQUIRE
02322 03410	SEGMENTAL WA
OTHER	ANY EQUIPMEN REQUIRES SUB
L	

CONCRETE VAULTS		WOEK	
E A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI.	A CO AS	FORMOER A	52
E MEMBERS TO SUPPORT THE SUPERIMPOSED LOADS PROVIDED ON NDER "DESIGN CRITERIA", AND FOR LOADS RESULTING FROM	R O R G	NO. 0010 STRUCTURY	02/10/2022
MPED BY AN ENGINEER LICENSED IN THE STATE OF GEORGIA FOR		* ROCCO	
INSTALLATION AND PLACEMENT, INCLUDING PICK UP POINT INSERTS CING, STRONGBACKING, LOCATION AND SPACING OF SHIMS AND		APVD	
ngs as required per mechanical and electrical drawings. SHORING, AND BRACING		BY AP	OER
AVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. SARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE NTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND ERFORM THE WORK SHOWN.			APVD R KOEKEMOER
ACE UNTIL ELEVATED CONCRETE FLOOR OR SLABS HAVE REACHED STRENGTH AS DETERMINED BY FIELD CYLINDER BREAKS.			
LOWED FOR THE BOTTOM MATS OF REINFORCING IN ALL ELEVATED P MATS OF REINFORCING IN ELEVATED SLABS LESS THAN 12 INCHES			RSON
PLACE CONCRETE T STRUCTURAL STRENGTH REQUIREMENTS): 5000 PSI 4500 PSI		REVISION	CHK D EVER
4500 PSI IALL BE INSTALLED IN CONSTRUCTION JOINTS OF HYDRAULIC DE STRUCTURES, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.			R THORNTON
GESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF INTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL			DR JTL
TS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT			DER
PE PENETRATIONS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND TE.		DATE	N EKEMOER
TAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE NCRETE.			DSGN R KOE
		ECT ECT	
_ FABRICATIONS	OUP INC. 1400 9 /30/2022)	REAM PROJEC	
HE FOLLOWING ASTM STANDARDS:	VG GROUP INC SUITE 1400 A 30309 (EXP 6/30/2022)	STRI ION I	GA '
A36 A276	IG GRC SUITE 30309 EXP 6//		ATLANTA,
WING ASTM STANDARDS: B308 B209	ENGINEERIN TH STREET, ATLANTA, GA	VALLEY OF THE HAWKS STREAM -LOODPLAIN RESTORATION PROJECT GREEN INFRASTRUCTURE DESIGN	OF ATLA
AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL IRRENT OSHA STANDARDS.	$ 00 \neq #$		
TS CONFORMING TO THE FOLLOWING ASTM STANDARDS EXCEPT SE:	JACOB 10 1 GA LIC	VAL AND FLO 061 GF	
F593, AISI TYPE 316, CONDITION CW			2
F593, AISI TYPE 316, CONDITION CW			
L BE CLEAN AND FREE OF OIL, DIRT AND PAINT.			
LY DETAILED SHALL BE ALLOWED. NO CUTTING OR BURNING IS E ENGINEER.		رى)
RED SUBMITTALS			
INS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR WORK OR ARE REQUIRED TO BE SUBMITTED FOR REVIEW ONLY BY		AL AL) - -
DDITIONAL MATERIALS, INSTALLATION, ANCHORAGE, OR QUIRE SPECIAL INSPECTION AND/OR STRUCTURAL OBSERVATION TO D SUBMITTAL SHALL INCLUDE SPECIFIC LINE ITEMS TO BE ADDED TO 'S STATEMENT OF SPECIAL INSPECTIONS PLAN IF THEY ARE NOT	L HOH	GENERA	; ; ; ; ; ; ; ;
BMITTALS PER IBC SECTION 107.3.4.1 OF 2018 IBC THAT ARE ULATIONS OR SAFETY RELATED SYSTEM INFORMATION FOR REVIEW ENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE ENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE, JIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR ER. ADDITIONALLY, ACCEPTANCE INDICATED ON THE ENGINEER'S ETED, FINAL SUBMITTAL SHALL THEN BE SUBMITTED BY THE AND APPROVED PRIOR TO INSTALLATION OF THESE ITEMS.	Ch2m:)
D DEFERRED SUBMITTALS FOR REVIEW BY PERMITTING AGENCY ALL			
CRETE STRUCTURES		RIFY SCALE	
MITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS		SINAL DRAWING.	
	DATE		Y 2021
	PROJ DWG		(5593 D-00

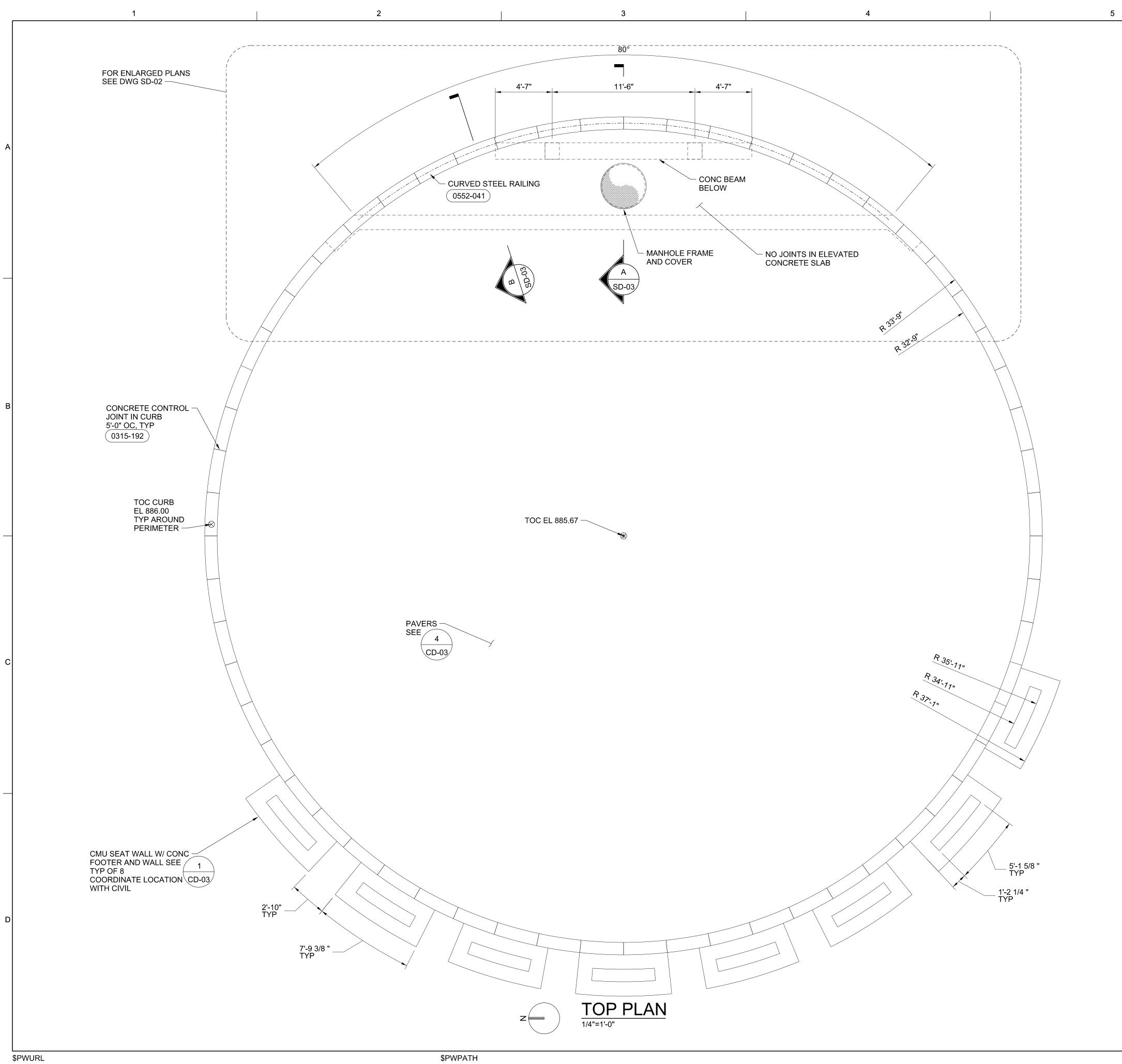
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SHEET

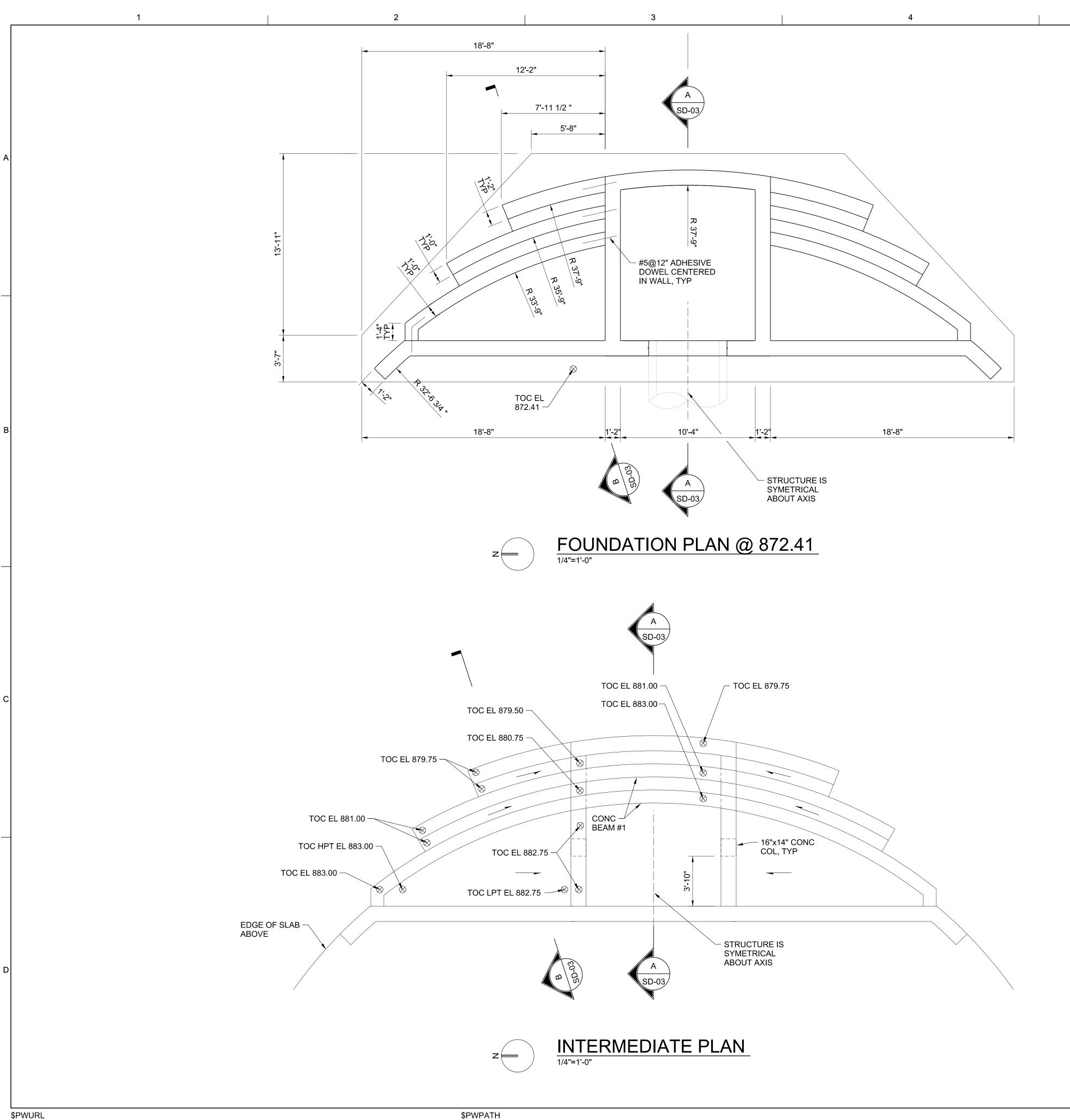
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Ch2m: ROH ADFOX	JACOBS ENGINEERING GROUP INC. 10 10TH STREET, SUITE 1400				
A JOINT VENTURE	A I LAN I A, GA 30309 GA LIC # PEF000350 (EXP 6/30/2022)				
PRIMARY CONTROL STRUCTURES TOP PLAN	VALLEY OF THE HAWKS STREAM AND FLOODPLAIN RESTORATION PROJECT 061 GREEN INFRASTRUCTURE DESIGN	NO.		REVISION	BY APVD
		DSGN R KOEKEMOER	DR J THORNTON	CHK D EVERSON	APVD R KOEKEMOER

GENERAL SHEET NOTES

1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING SD-00.



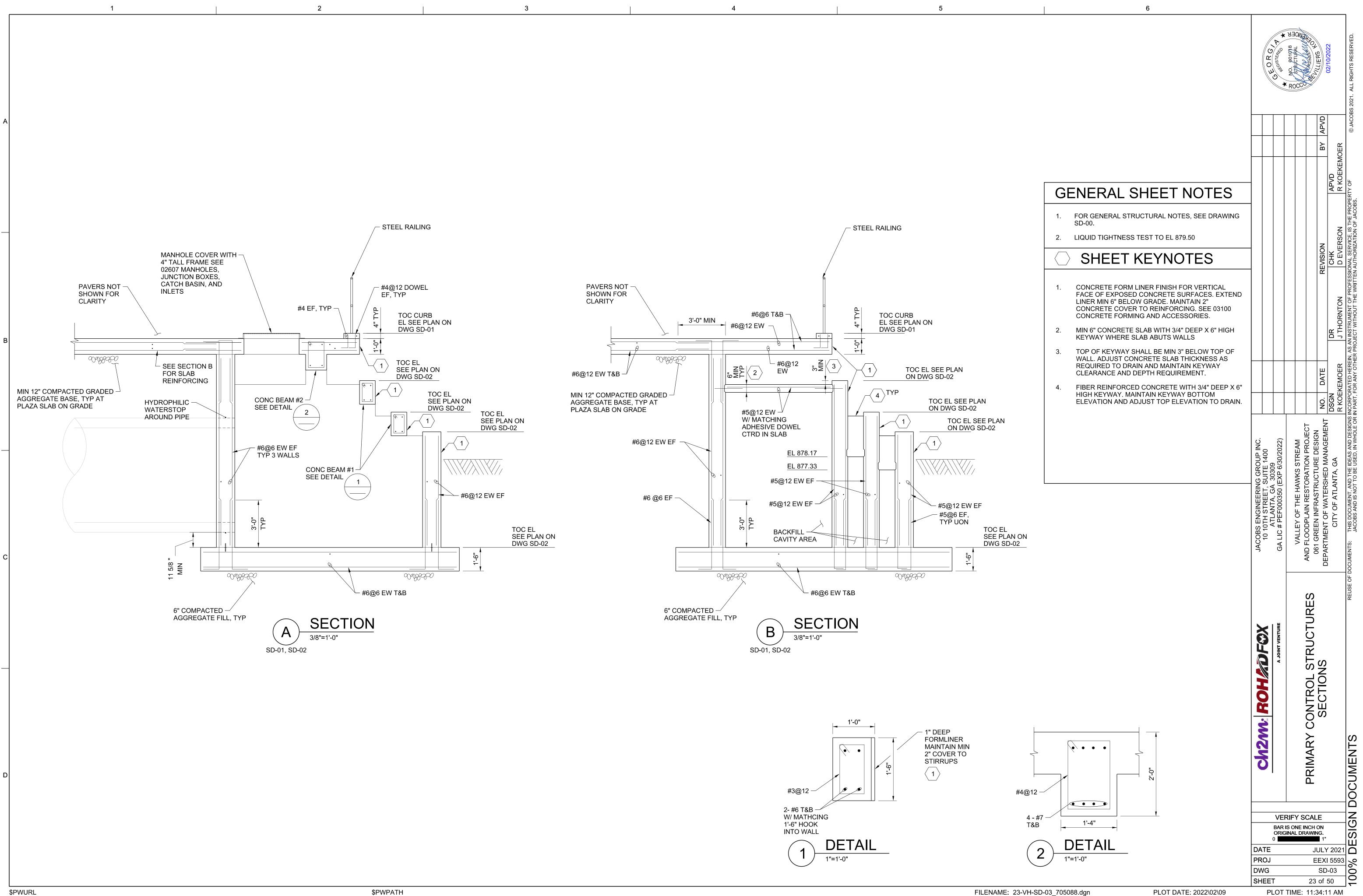
Ch2m: ROH ADFOX	H C D F C X	JACOBS ENGINEERING GROUP INC. 10 10TH STREET, SUITE 1400				
	A JOINT VENTURE	AILANIA, GA 30309 GA LIC # PEF000350 (EXP 6/30/2022)				
PRIMARY CONTR	PRIMARY CONTROL STRUCTURES PLANS	VALLEY OF THE HAWKS STREAM AND FLOODPLAIN RESTORATION PROJECT 061 GREEN INFRASTRUCTURE DESIGN	NO. DATE		REVISION	BY APVD
	1	CITY OF ATLANTA, GA	DSGN R KOEKEMOER	DR J THORNTON	CHK D EVERSON	APVD R KOEKEMOER

GENERAL SHEET NOTES

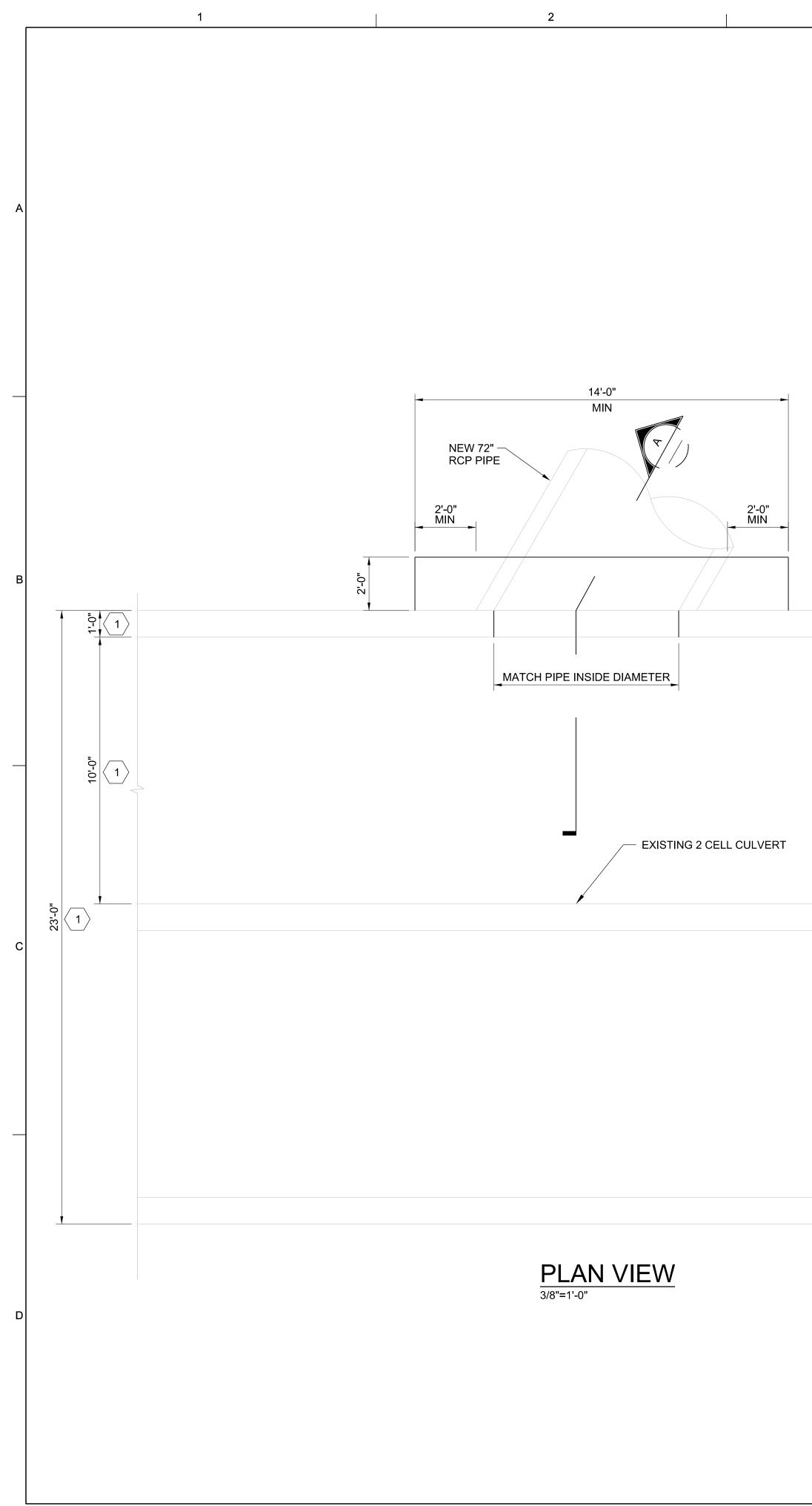
1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING SD-00.

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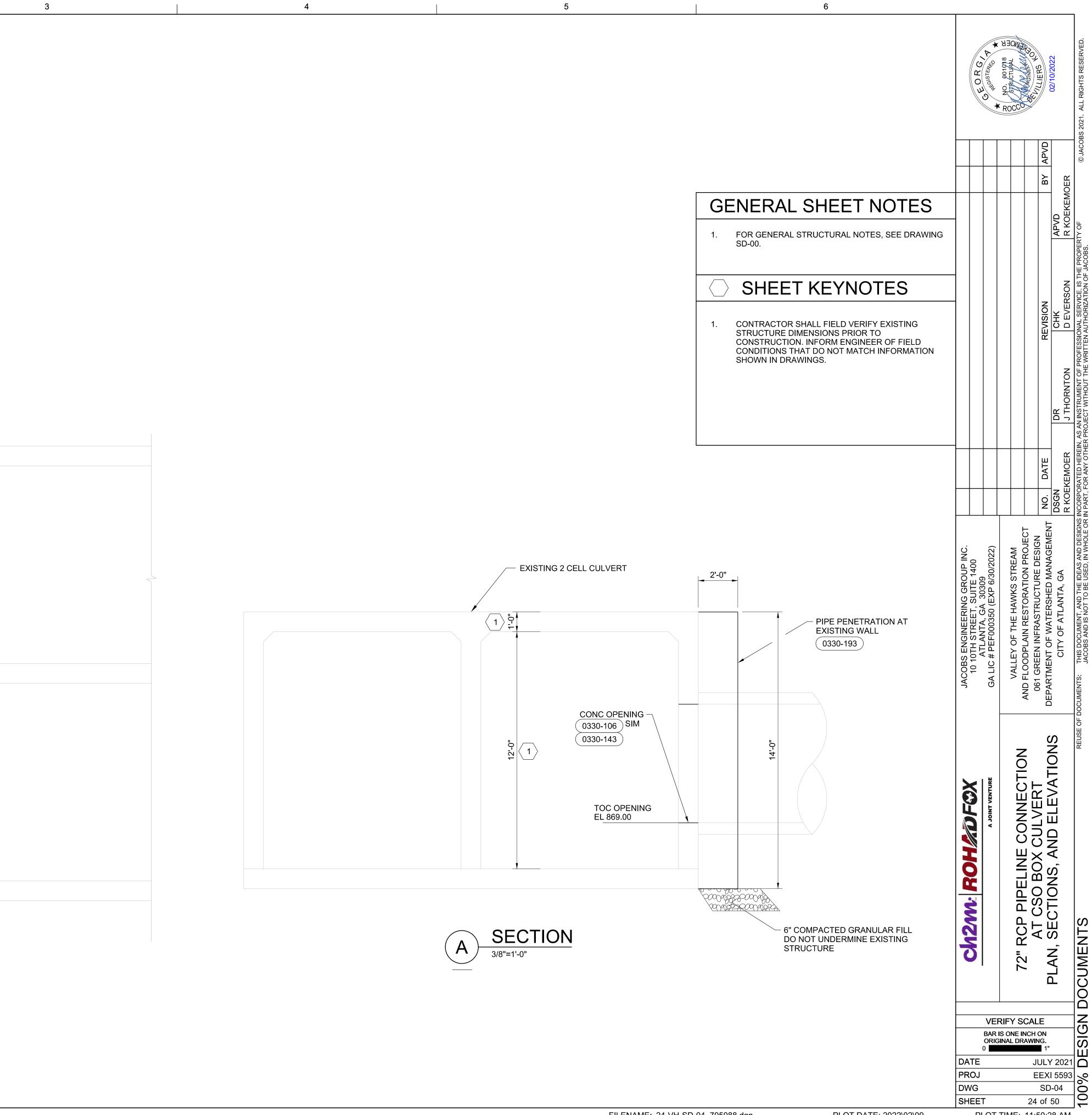
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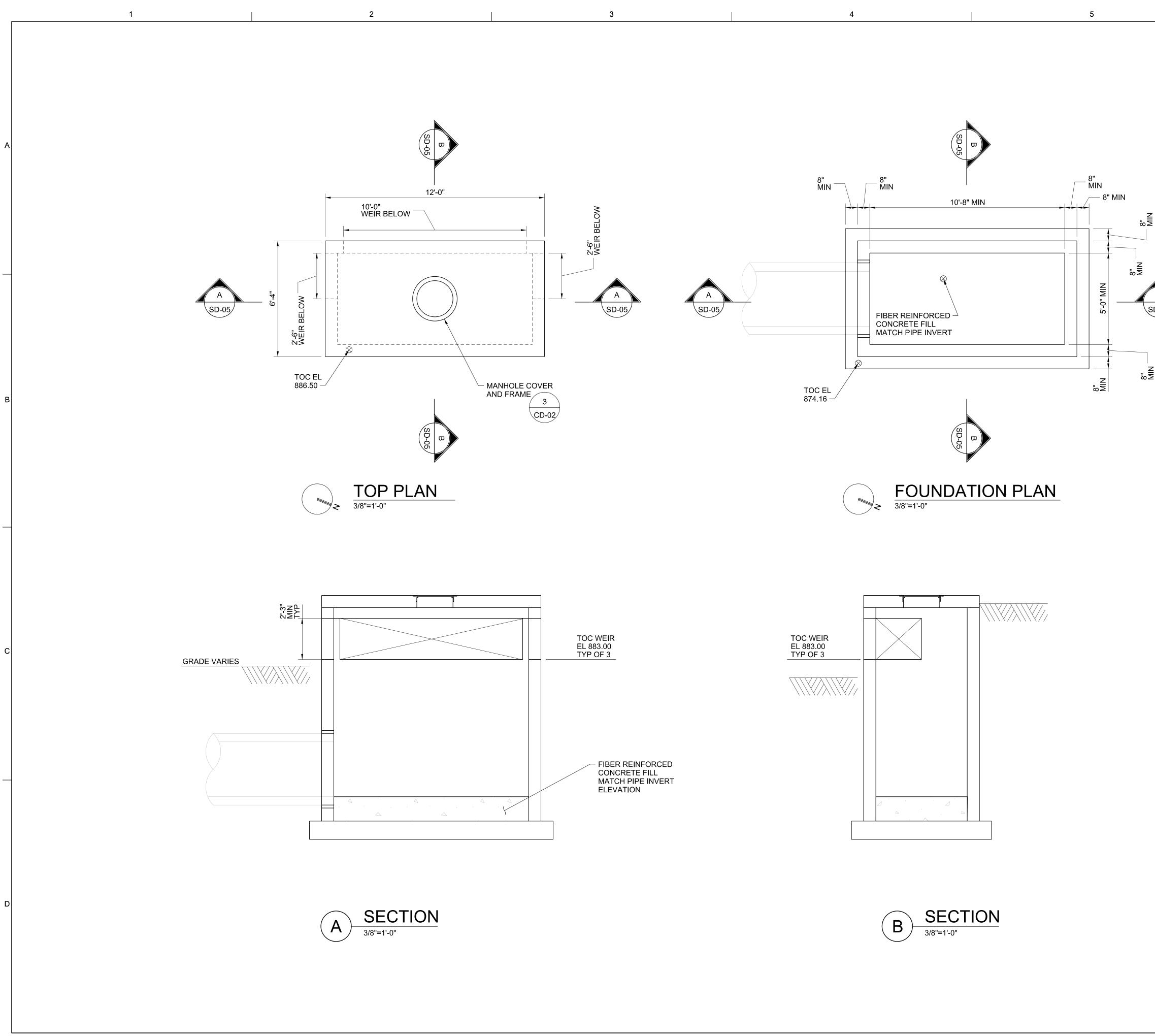
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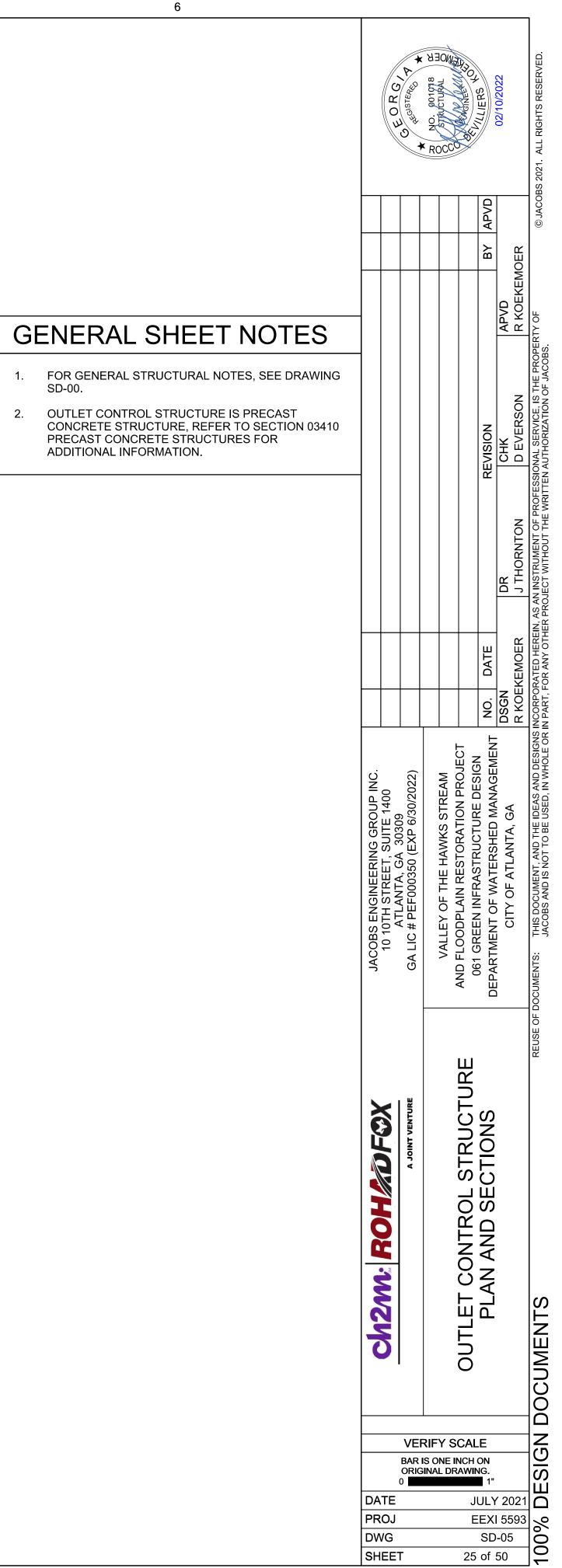


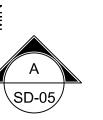
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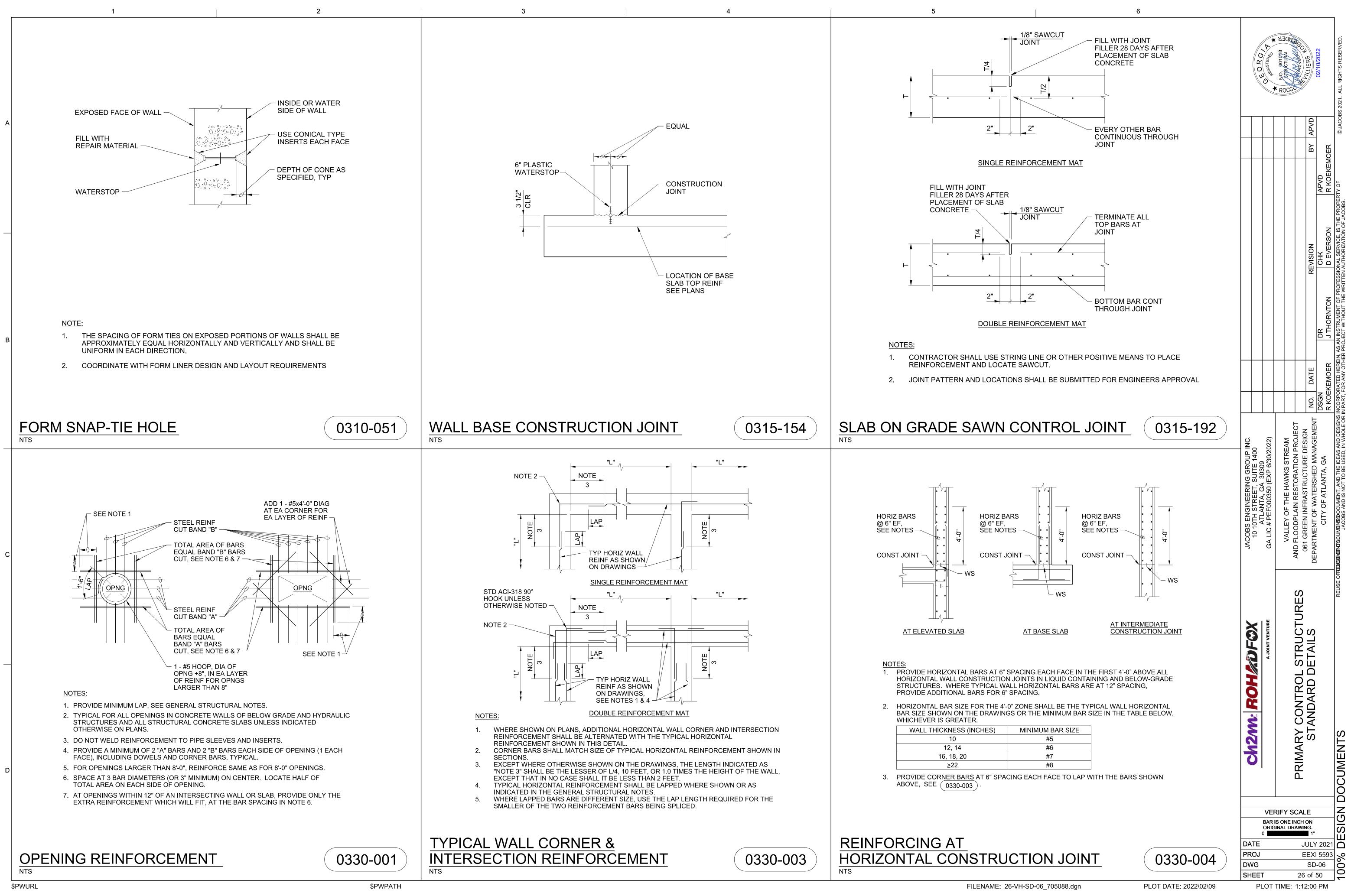


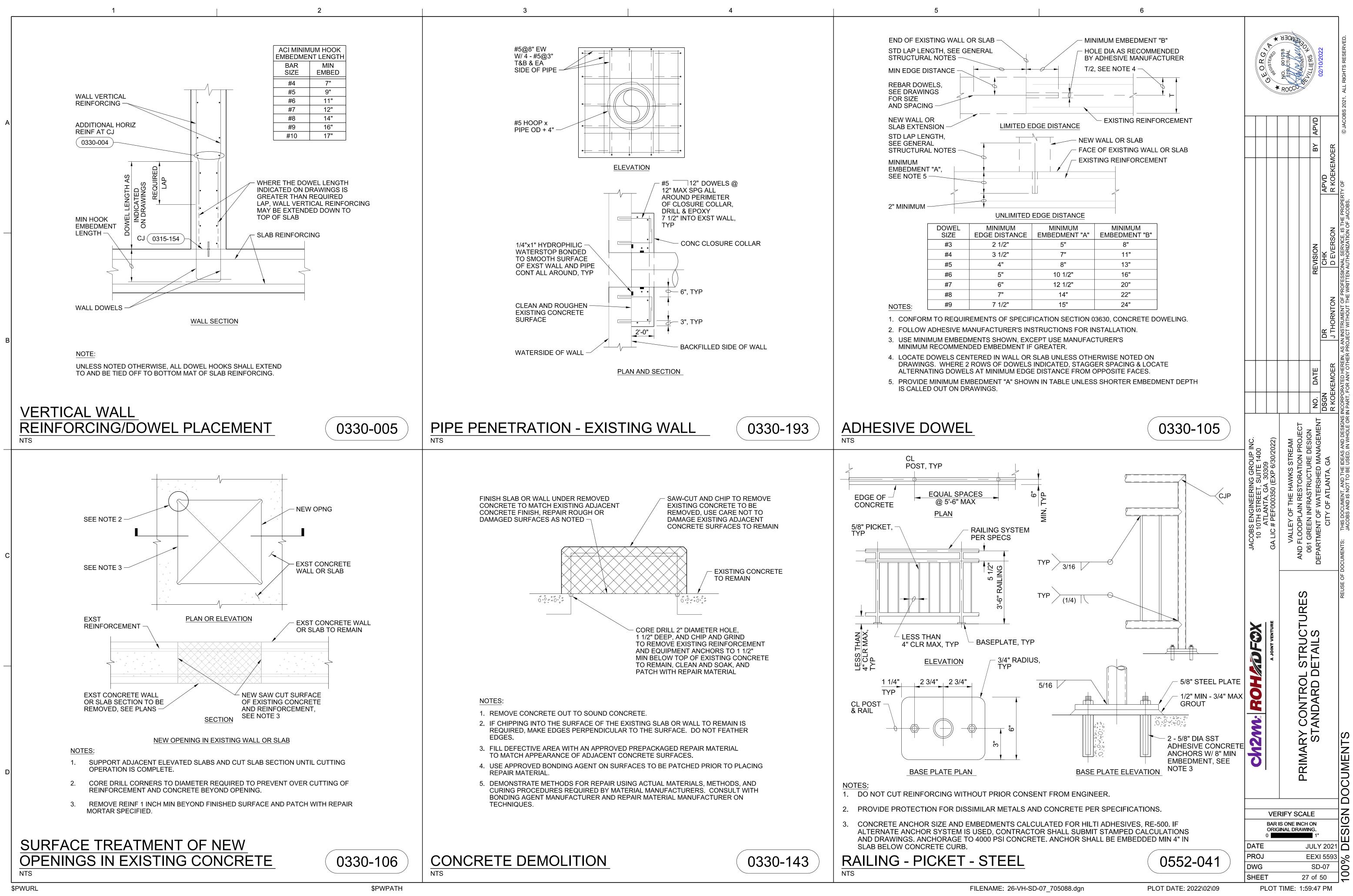


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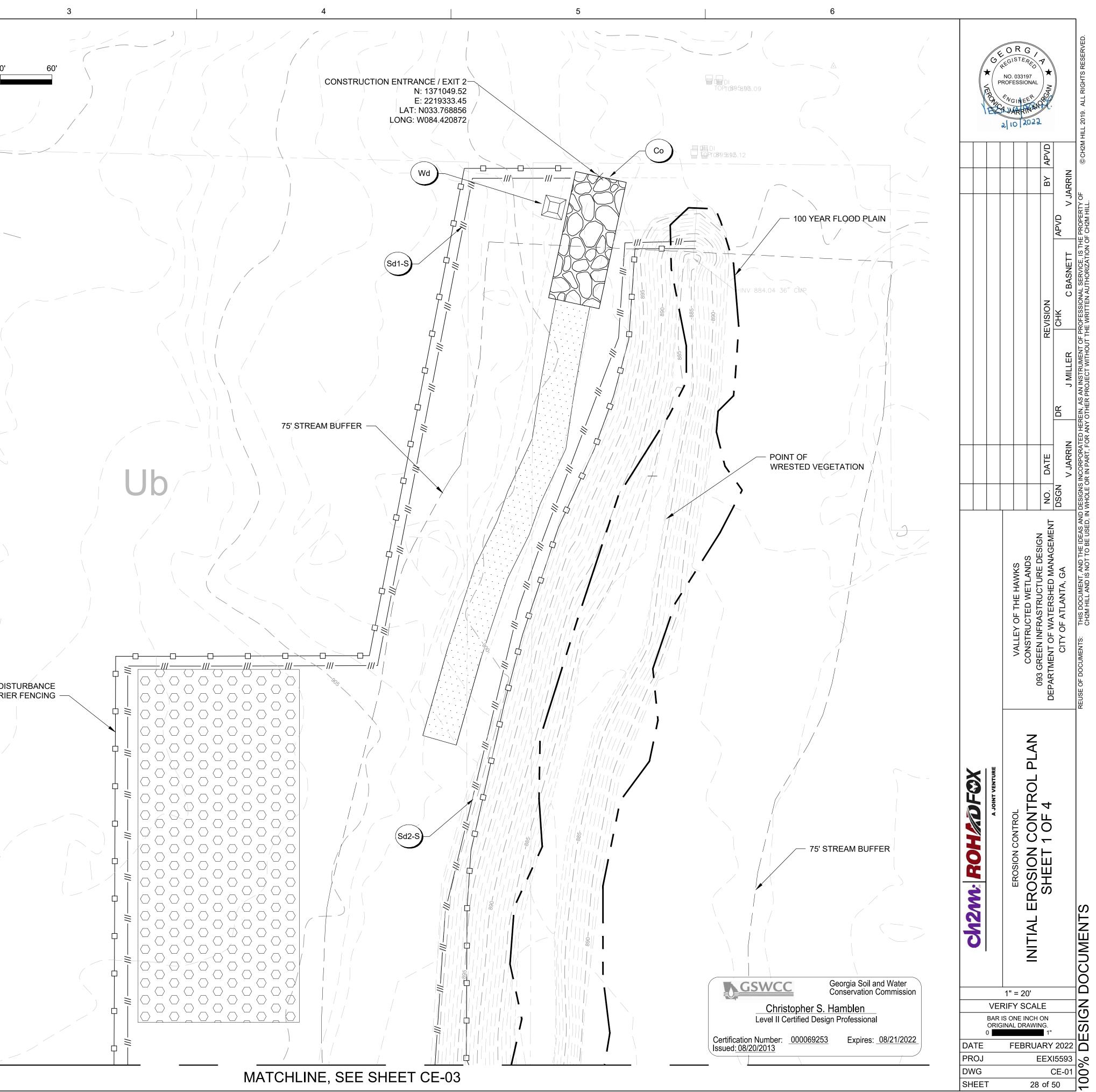
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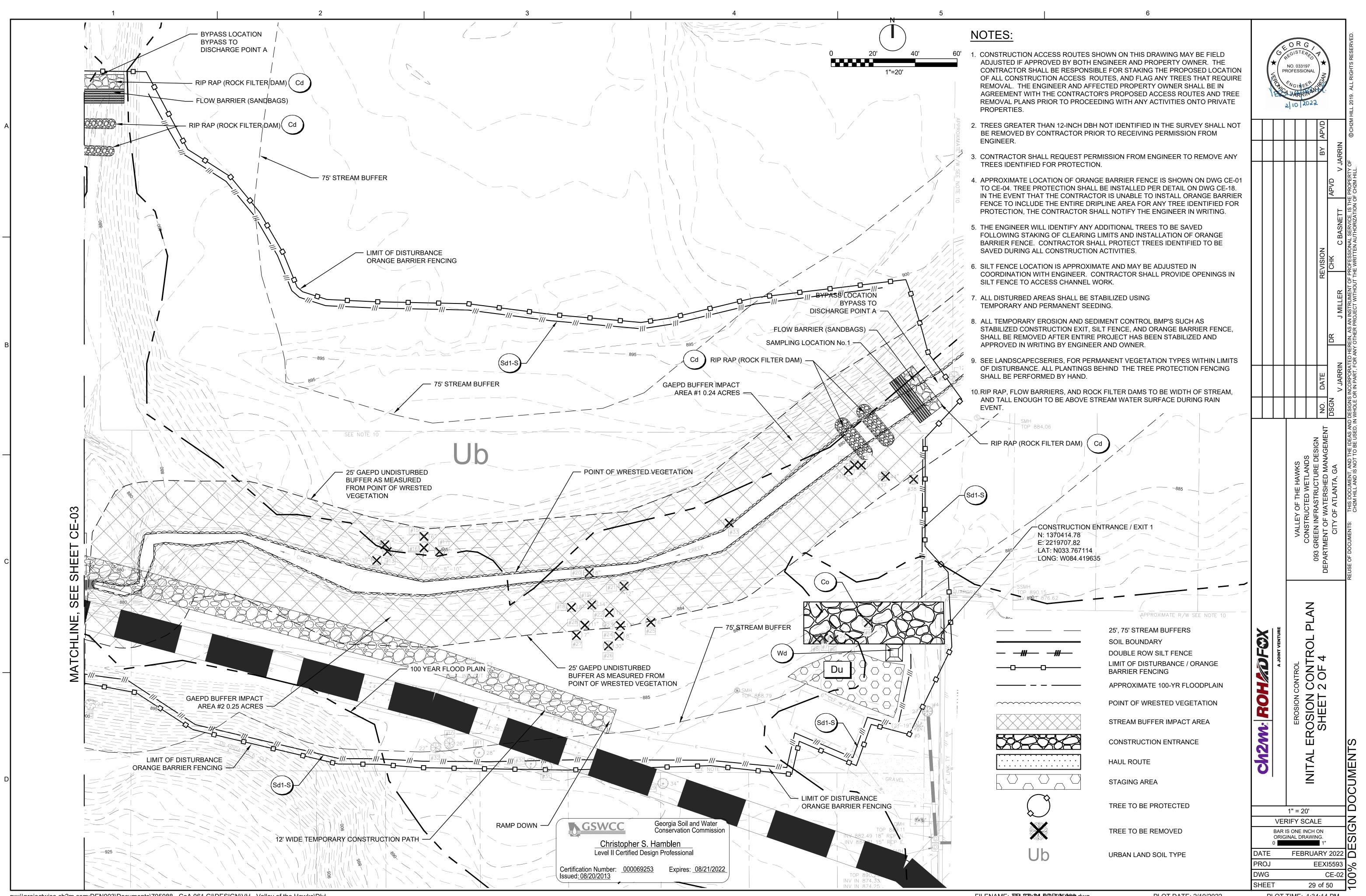


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			N
	NOTES:		0 20' 40'
A	ADJUSTED IF APPROVED BY BOT CONTRACTOR SHALL BE RESPO	ES SHOWN ON THIS DRAWING MAY BE FIELD TH ENGINEER AND PROPERTY OWNER. THE INSIBLE FOR STAKING THE PROPOSED LOCATION	1"=20'
	REMOVAL. THE ENGINEER AND A AGREEMENT WITH THE CONTRA	S ROUTES, AND FLAG ANY TREES THAT REQUIRE AFFECTED PROPERTY OWNER SHALL BE IN CTOR'S PROPOSED ACCESS ROUTES AND TREE DEEDING WITH ANY ACTIVITIES ONTO PRIVATE	
	2. TREES GREATER THAN 12-INCH	DBH NOT IDENTIFIED IN THE SURVEY SHALL NOT PRIOR TO RECEIVING PERMISSION FROM	
	3. CONTRACTOR SHALL REQUEST TREES IDENTIFIED FOR PROTEC	PERMISSION FROM ENGINEER TO REMOVE ANY CTION.	
	TO CE-04. TREE PROTECTION SH IN THE EVENT THAT THE CONTRA FENCE TO INCLUDE THE ENTIRE	RANGE BARRIER FENCE IS SHOWN ON DWG CE-01 HALL BE INSTALLED PER DETAIL ON DWG CE-18. ACTOR IS UNABLE TO INSTALL ORANGE BARRIER E DRIPLINE AREA FOR ANY TREE IDENTIFIED FOR R SHALL NOTIFY THE ENGINEER IN WRITING.	
	5. THE ENGINEER WILL IDENTIFY A FOLLOWING STAKING OF CLEAR	NY ADDITIONAL TREES TO BE SAVED ING LIMITS AND INSTALLATION OF ORANGE SHALL PROTECT TREES IDENTIFIED TO BE	
	6. SILT FENCE LOCATION IS APPRO COORDINATION WITH ENGINEER SILT FENCE TO ACCESS CHANNE	R. CONTRACTOR SHALL PROVIDE OPENINGS IN	
	7. ALL DISTURBED AREAS SHALL B TEMPORARY AND PERMANENT S		
В	STABILIZED CONSTRUCTION EXI	SEDIMENT CONTROL BMP'S SUCH AS IT, SILT FENCE, AND ORANGE BARRIER FENCE, IRE PROJECT HAS BEEN STABILIZED AND NEER AND OWNER.	
	9. SEE LANDSCAPE SERIES, FOR PERMANENT VEGETATION TYPES WITHIN LIMITS OF DISTURBANCE. ALL PLANTINGS BEHIND THE TREE PROTECTION FENCING SHALL BE PERFORMED BY HAND.		
		ROCK FILTER DAMS TO BE WIDTH OF STREAM, E STREAM WATER SURFACE DURING RAIN	
		25', 75' STREAM BUFFERS	
		SOIL BOUNDARY DOUBLE ROW SILT FENCE	
		LIMIT OF DISTURBANCE / ORANGE BARRIER FENCING	
		APPROXIMATE 100-YR FLOODPLAIN	
		POINT OF WRESTED VEGETATION	
		STREAM BUFFER IMPACT AREA	
с		CONSTRUCTION ENTRANCE	LIMIT OF DI ORANGE BARRI
		HAUL ROUTE	ONANGE DANN
		STAGING AREA	
		TREE TO BE PROTECTED	
		TREE TO BE REMOVED	
	Ub	URBAN LAND SOIL TYPE	
D			

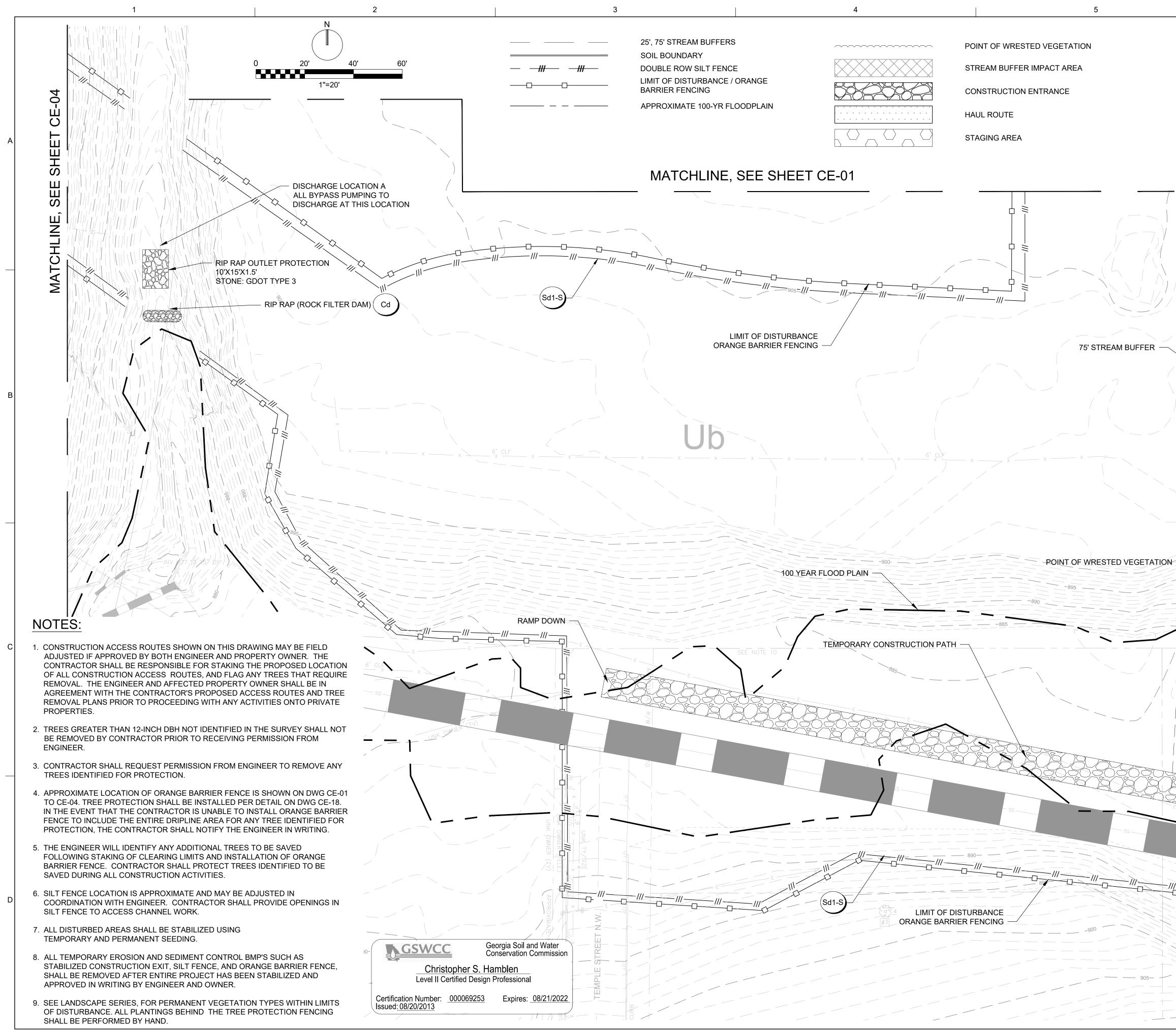


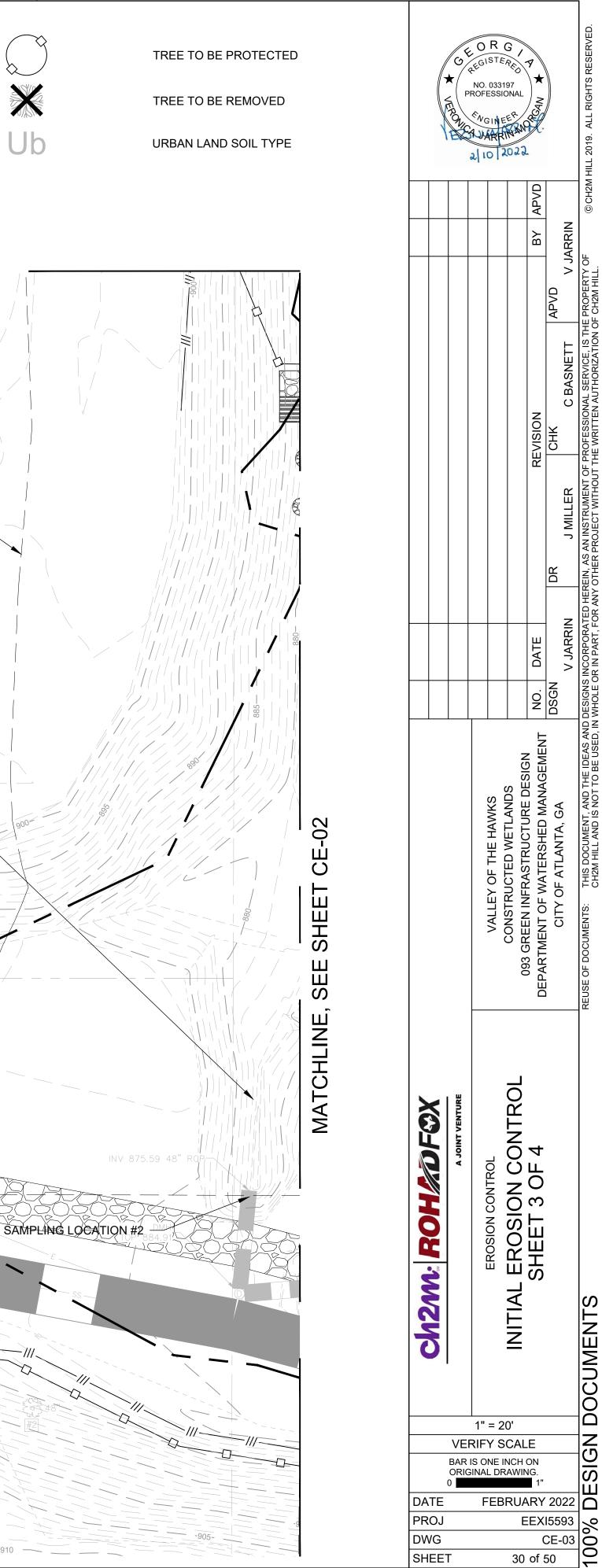
MATCHLINE, SEE SHEET CE-03

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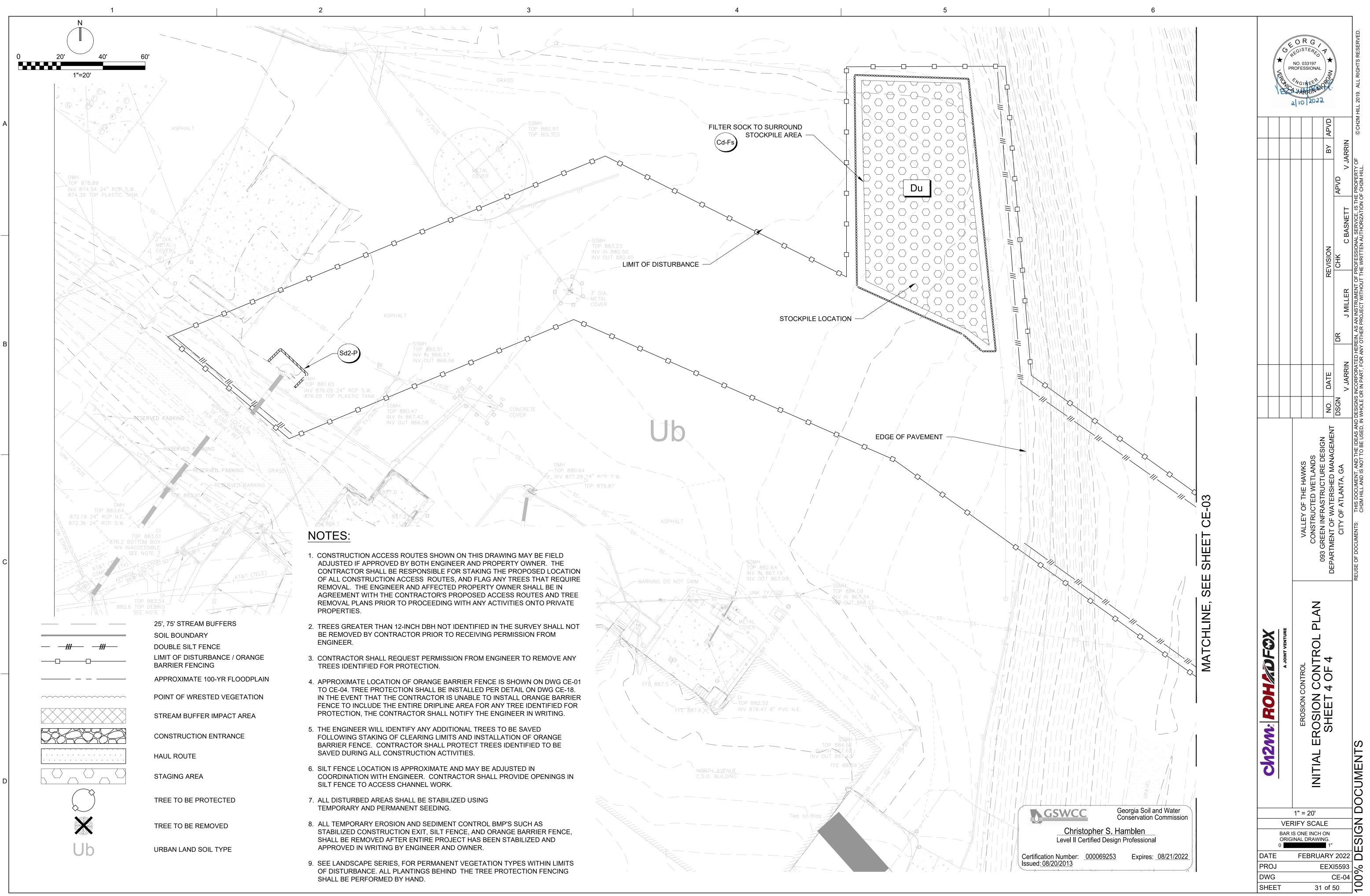
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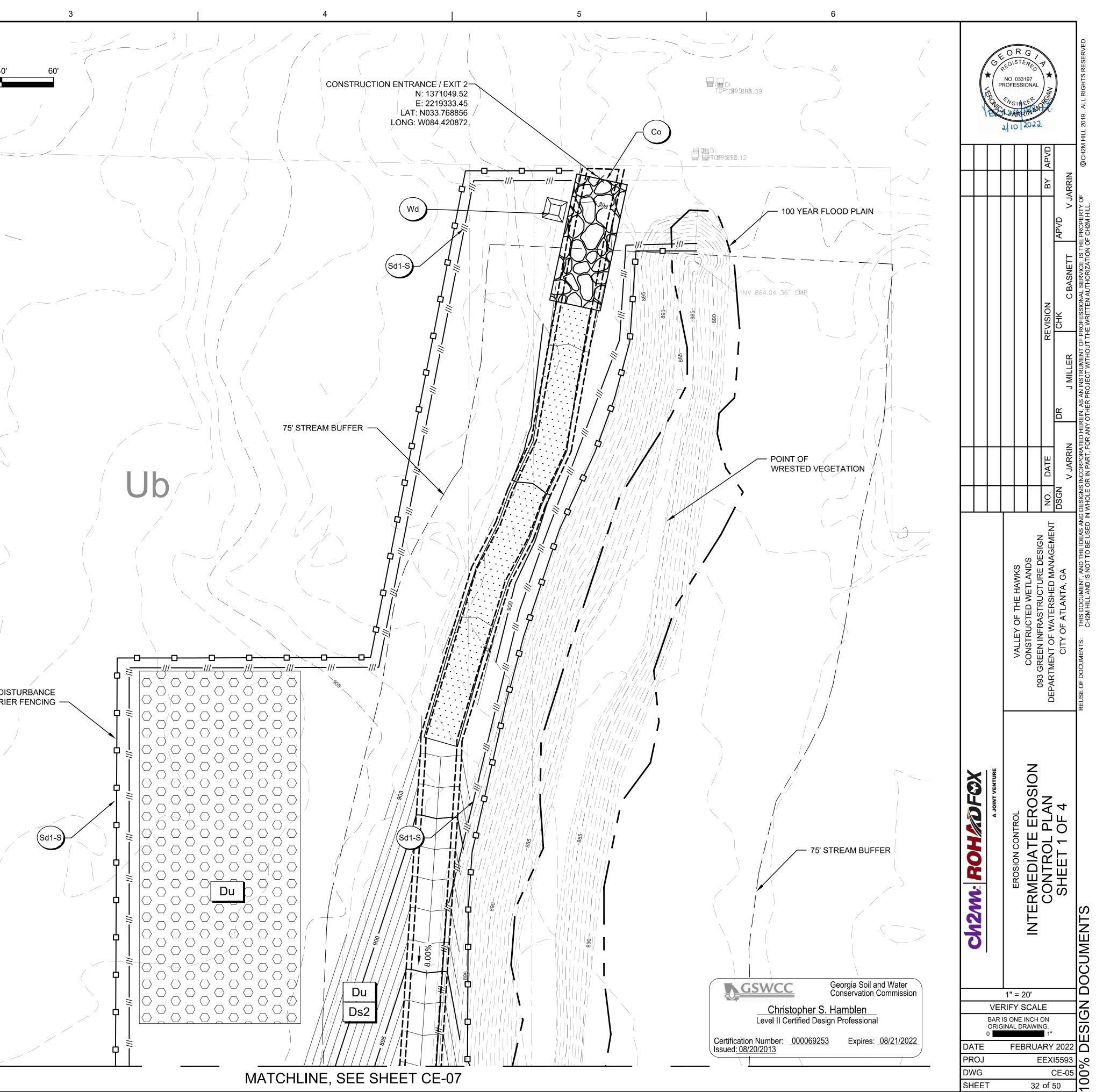


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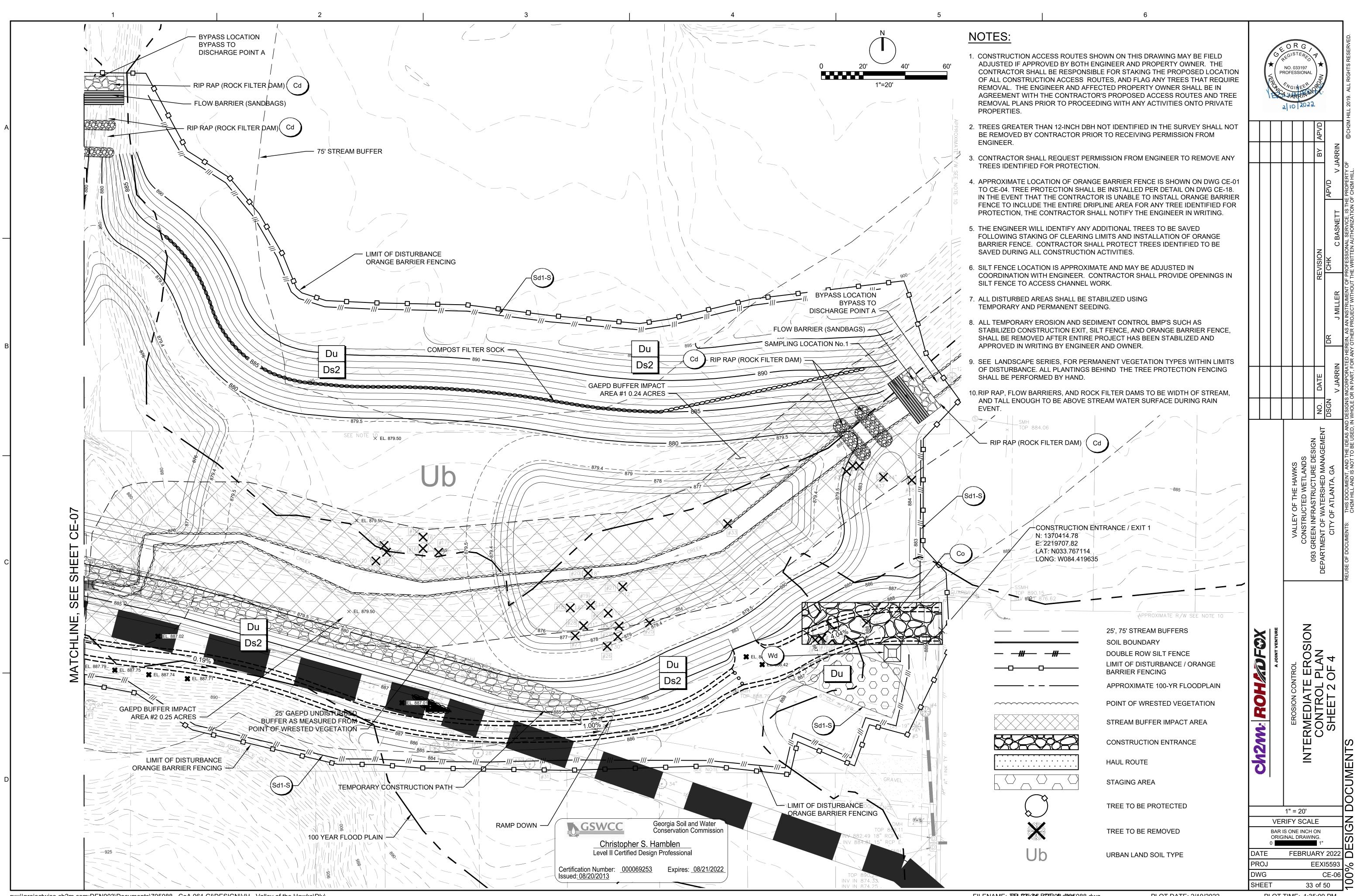
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	1	2	
	NOTES:		0 20' 40
Ą	ADJUSTED IF APPROVED BY BO CONTRACTOR SHALL BE RESP OF ALL CONSTRUCTION ACCES REMOVAL. THE ENGINEER AND AGREEMENT WITH THE CONTR	TES SHOWN ON THIS DRAWING MAY BE FIELD OTH ENGINEER AND PROPERTY OWNER. THE ONSIBLE FOR STAKING THE PROPOSED LOCATION SS ROUTES, AND FLAG ANY TREES THAT REQUIRE O AFFECTED PROPERTY OWNER SHALL BE IN PACTOR'S PROPOSED ACCESS ROUTES AND TREE OCEEDING WITH ANY ACTIVITIES ONTO PRIVATE	1"=20'
	2. TREES GREATER THAN 12-INCH	H DBH NOT IDENTIFIED IN THE SURVEY SHALL NOT R PRIOR TO RECEIVING PERMISSION FROM	
	3. CONTRACTOR SHALL REQUES TREES IDENTIFIED FOR PROTE	T PERMISSION FROM ENGINEER TO REMOVE ANY	
	TO CE-04. TREE PROTECTION S IN THE EVENT THAT THE CONT FENCE TO INCLUDE THE ENTIR	RANGE BARRIER FENCE IS SHOWN ON DWG CE-01 SHALL BE INSTALLED PER DETAIL ON DWG CE-18. RACTOR IS UNABLE TO INSTALL ORANGE BARRIER E DRIPLINE AREA FOR ANY TREE IDENTIFIED FOR OR SHALL NOTIFY THE ENGINEER IN WRITING.	
	FOLLOWING STAKING OF CLEA	ANY ADDITIONAL TREES TO BE SAVED RING LIMITS AND INSTALLATION OF ORANGE R SHALL PROTECT TREES IDENTIFIED TO BE CTION ACTIVITIES.	
		OXIMATE AND MAY BE ADJUSTED IN R. CONTRACTOR SHALL PROVIDE OPENINGS IN NEL WORK.	
	7. ALL DISTURBED AREAS SHALL TEMPORARY AND PERMANENT		
В	STABILIZED CONSTRUCTION E	D SEDIMENT CONTROL BMP'S SUCH AS XIT, SILT FENCE, AND ORANGE BARRIER FENCE, ITIRE PROJECT HAS BEEN STABILIZED AND GINEER AND OWNER.	
	•	PERMANENT VEGETATION TYPES WITHIN LIMITS NGS BEHIND THE TREE PROTECTION FENCING ID.	
	, , , , , , , , , , , , , , , , , , , ,) ROCK FILTER DAMS TO BE WIDTH OF STREAM, VE STREAM WATER SURFACE DURING RAIN	
		25', 75' STREAM BUFFERS	
_		SOIL BOUNDARY DOUBLE ROW SILT FENCE	
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		APPROXIMATE 100-YR FLOODPLAIN	
		POINT OF WRESTED VEGETATION	/
		STREAM BUFFER IMPACT AREA	
c		CONSTRUCTION ENTRANCE	
		HAUL ROUTE	LIMIT OF D ORANGE BARR
	$ \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c } \hline \begin{tabular}{ c c c } \hline \begin{tabular}{ c c } \hline tab$	STAGING AREA	
		TREE TO BE PROTECTED	
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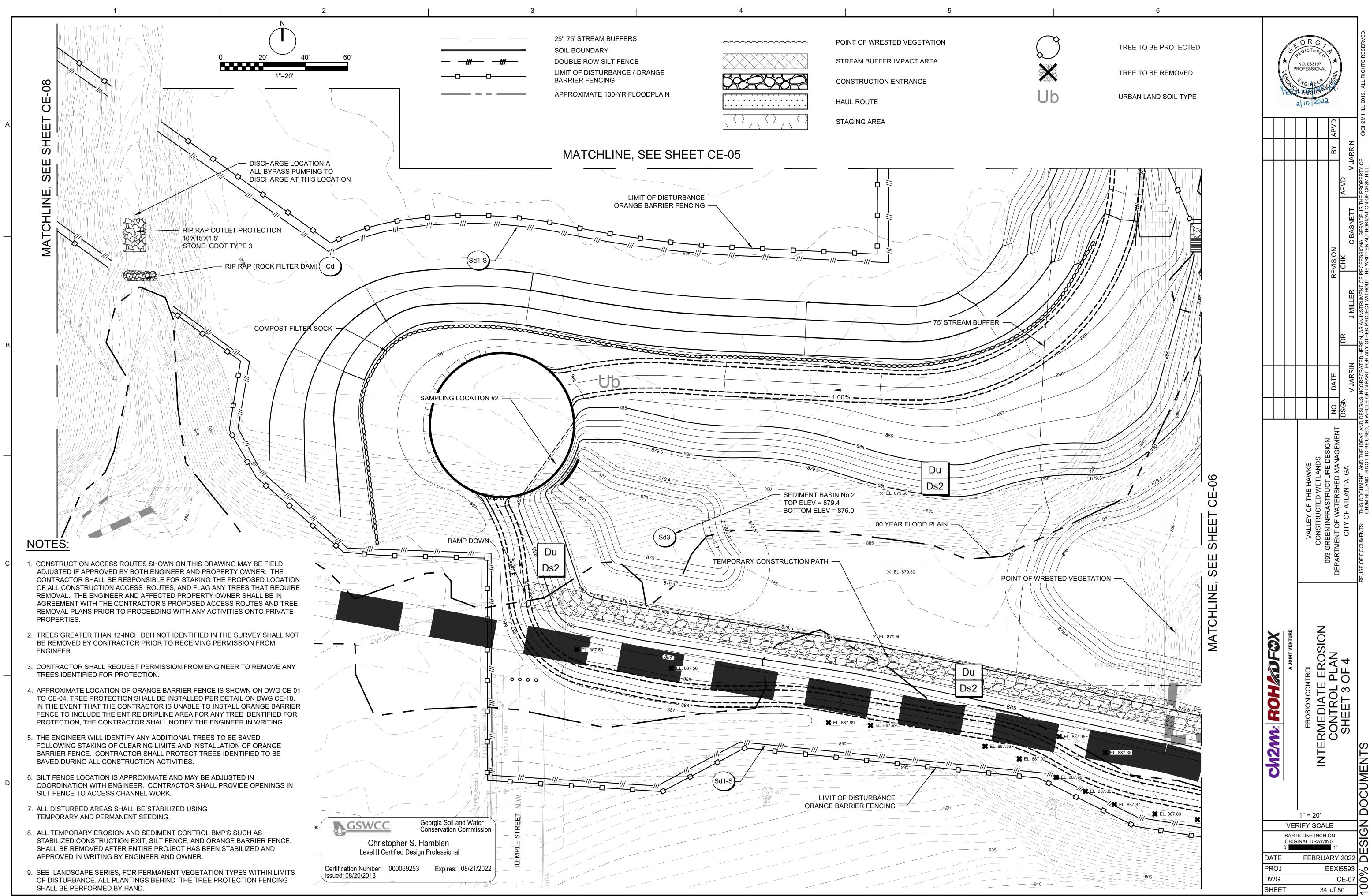


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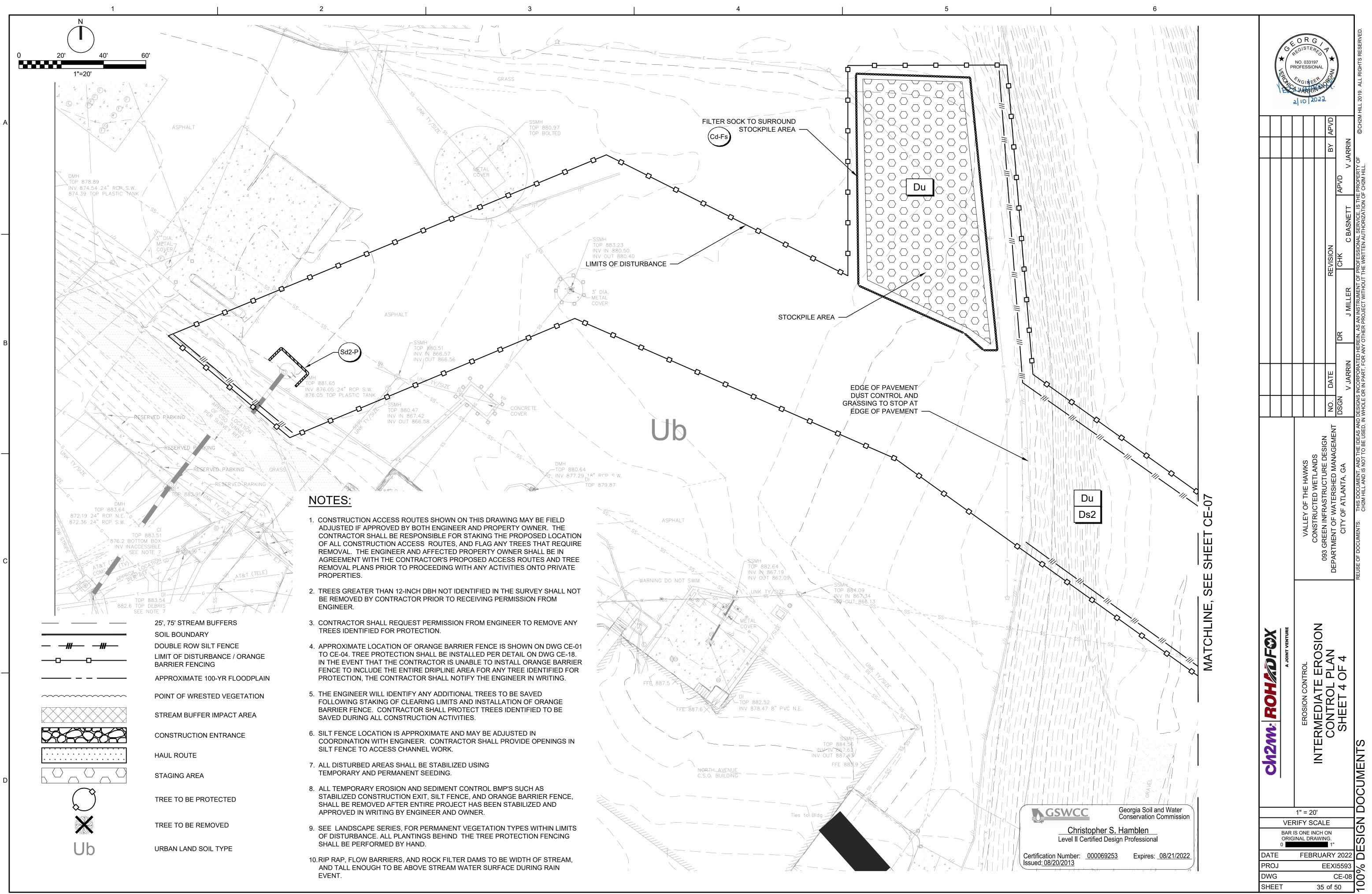


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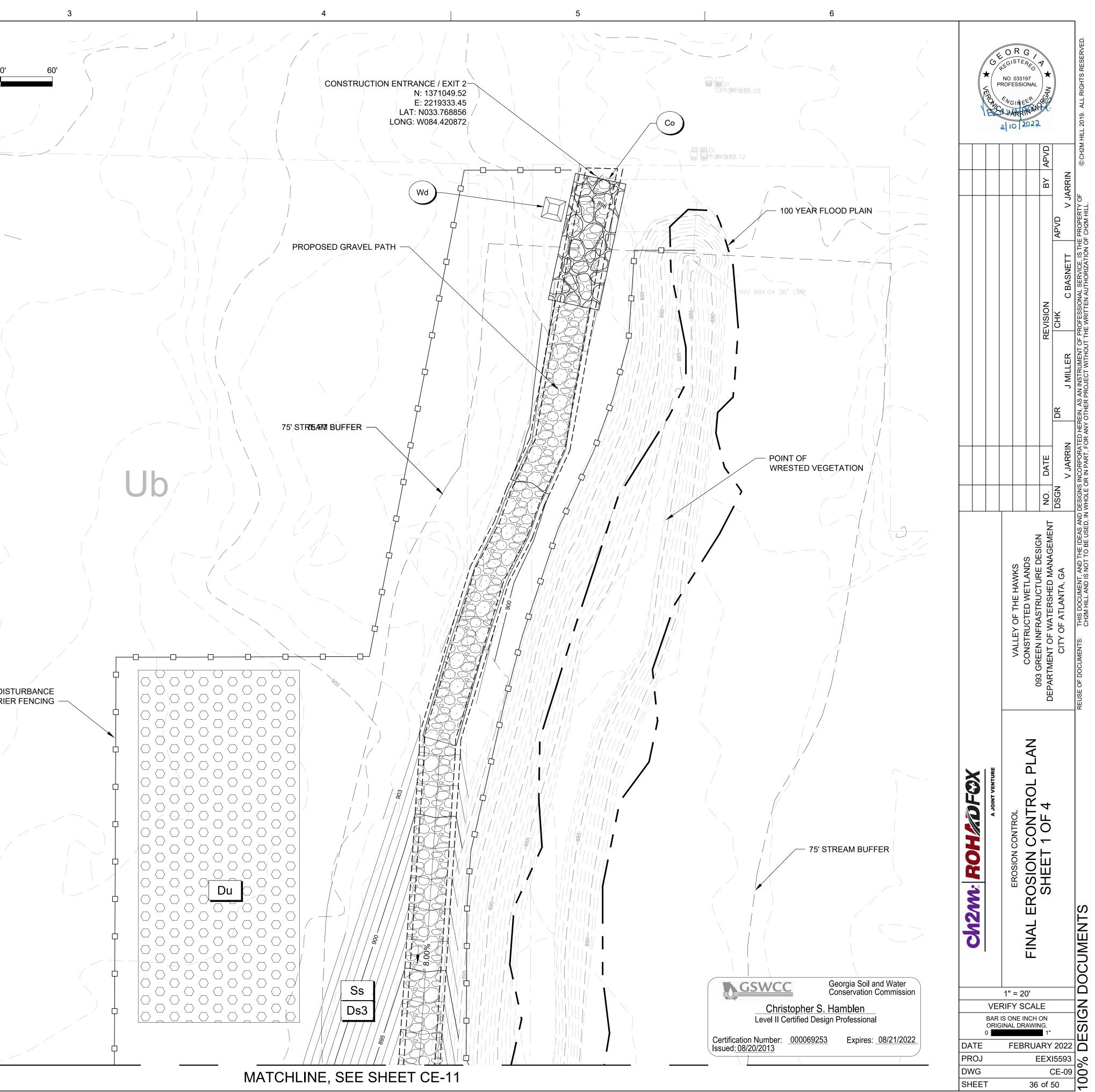


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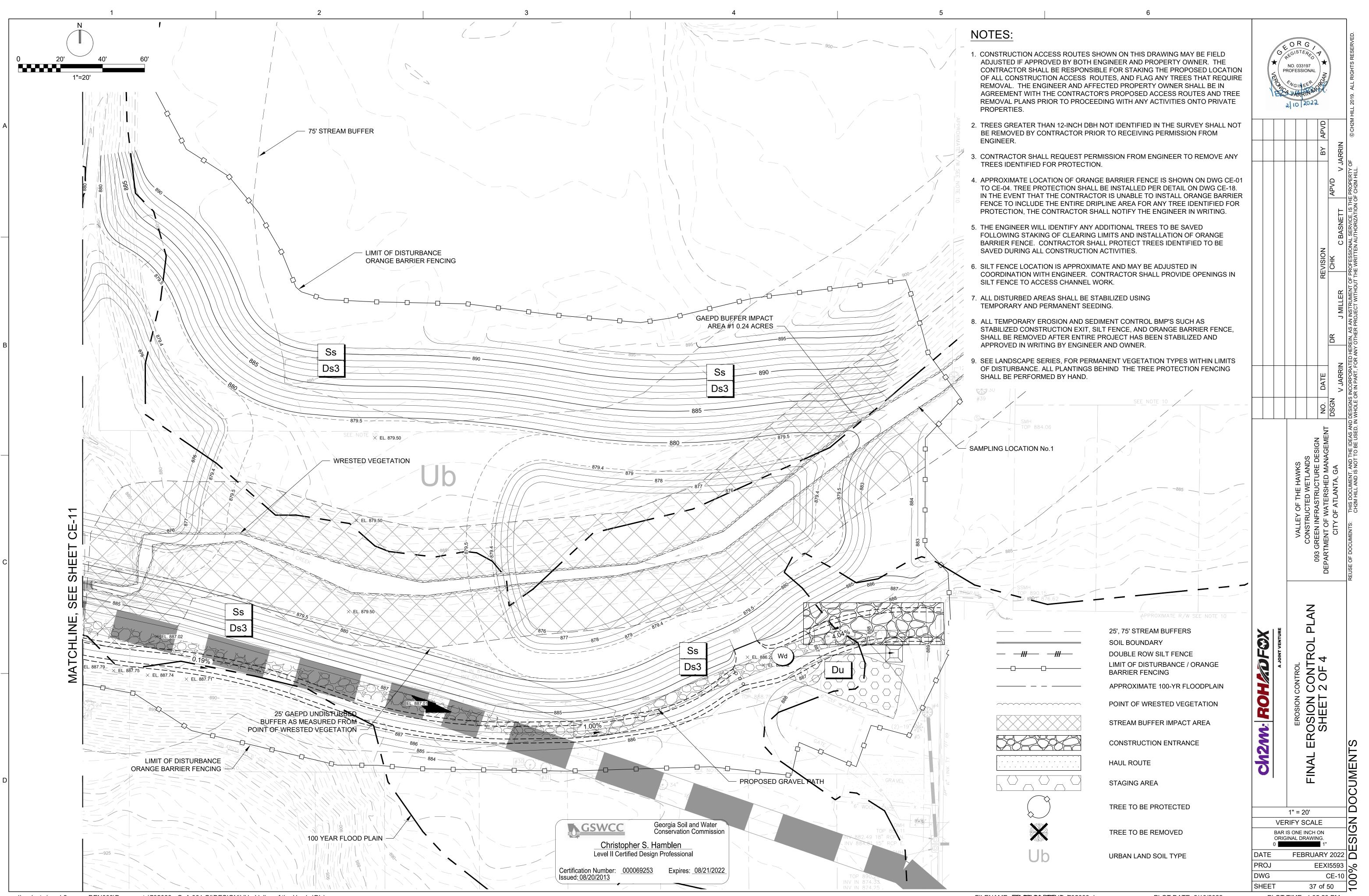


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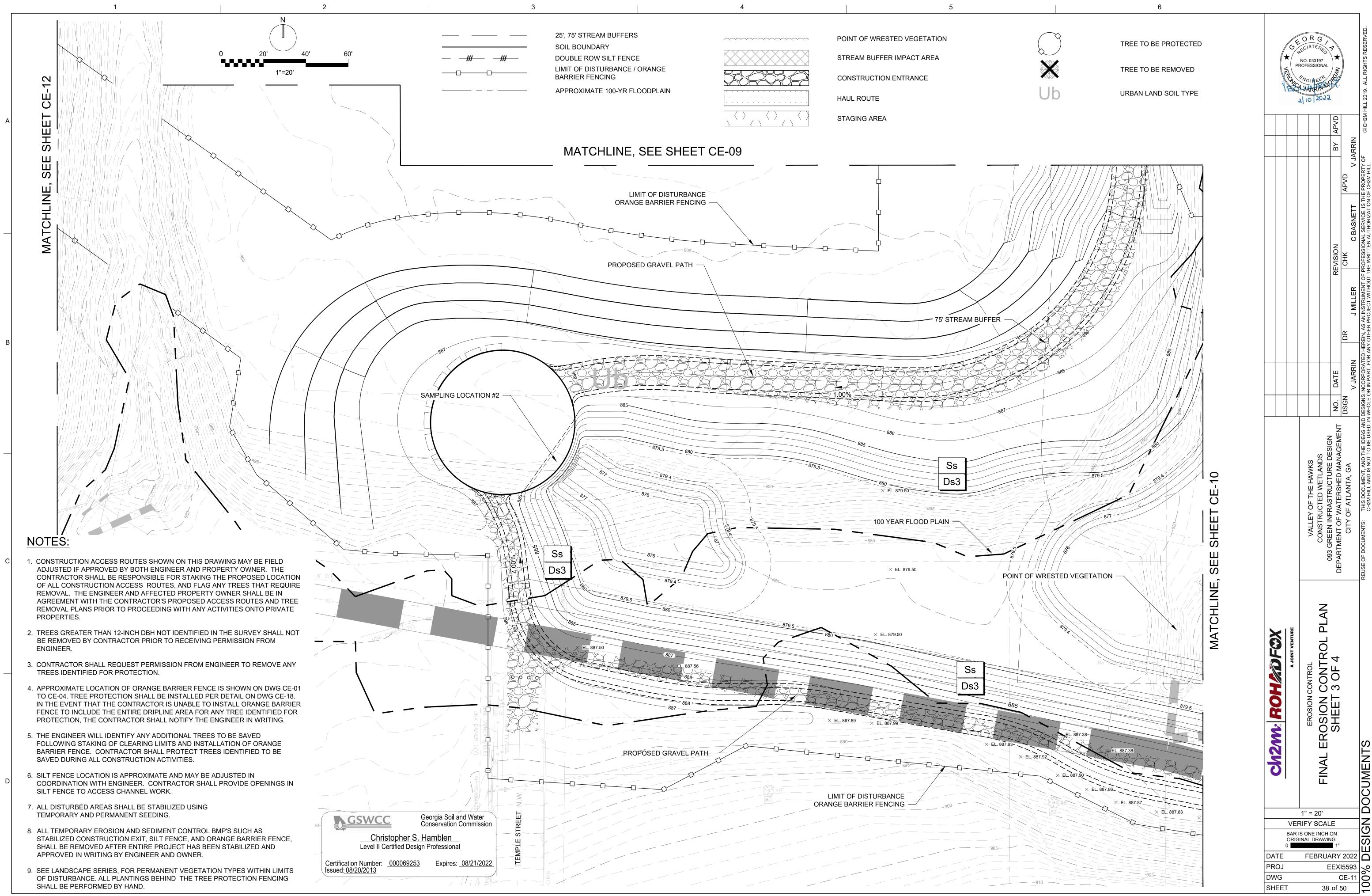
	1	2	
			N
	NOTES:		0 20' 40'
A	ADJUSTED IF APPROVED BY BO CONTRACTOR SHALL BE RESP OF ALL CONSTRUCTION ACCES REMOVAL. THE ENGINEER AND AGREEMENT WITH THE CONTR	TES SHOWN ON THIS DRAWING MAY BE FIELD OTH ENGINEER AND PROPERTY OWNER. THE ONSIBLE FOR STAKING THE PROPOSED LOCATION SS ROUTES, AND FLAG ANY TREES THAT REQUIRE O AFFECTED PROPERTY OWNER SHALL BE IN RACTOR'S PROPOSED ACCESS ROUTES AND TREE COCEEDING WITH ANY ACTIVITIES ONTO PRIVATE	1"=20'
		H DBH NOT IDENTIFIED IN THE SURVEY SHALL NOT R PRIOR TO RECEIVING PERMISSION FROM	
	3. CONTRACTOR SHALL REQUES TREES IDENTIFIED FOR PROTE	T PERMISSION FROM ENGINEER TO REMOVE ANY ECTION.	
	TO CE-04. TREE PROTECTION S IN THE EVENT THAT THE CONT FENCE TO INCLUDE THE ENTIR	DRANGE BARRIER FENCE IS SHOWN ON DWG CE-01 SHALL BE INSTALLED PER DETAIL ON DWG CE-18. RACTOR IS UNABLE TO INSTALL ORANGE BARRIER RE DRIPLINE AREA FOR ANY TREE IDENTIFIED FOR OR SHALL NOTIFY THE ENGINEER IN WRITING.	
	FOLLOWING STAKING OF CLEA	ANY ADDITIONAL TREES TO BE SAVED RING LIMITS AND INSTALLATION OF ORANGE R SHALL PROTECT TREES IDENTIFIED TO BE CTION ACTIVITIES.	
	6. SILT FENCE LOCATION IS APPE COORDINATION WITH ENGINEE SILT FENCE TO ACCESS CHAN		
	7. ALL DISTURBED AREAS SHALL TEMPORARY AND PERMANENT		
В	STABILIZED CONSTRUCTION E	D SEDIMENT CONTROL BMP'S SUCH AS XIT, SILT FENCE, AND ORANGE BARRIER FENCE, ITIRE PROJECT HAS BEEN STABILIZED AND GINEER AND OWNER.	
		PERMANENT VEGETATION TYPES WITHIN LIMITS NGS BEHIND THE TREE PROTECTION FENCING ND.	
	 	25', 75' STREAM BUFFERS SOIL BOUNDARY DOUBLE ROW SILT FENCE	
		LIMIT OF DISTURBANCE / ORANGE BARRIER FENCING APPROXIMATE 100-YR FLOODPLAIN	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	POINT OF WRESTED VEGETATION	
		STREAM BUFFER IMPACT AREA	
с		CONSTRUCTION ENTRANCE	
		HAUL ROUTE	ORANGE BARRI
		STAGING AREA	
		TREE TO BE PROTECTED	
		TREE TO BE REMOVED	
_	Ub	URBAN LAND SOIL TYPE	
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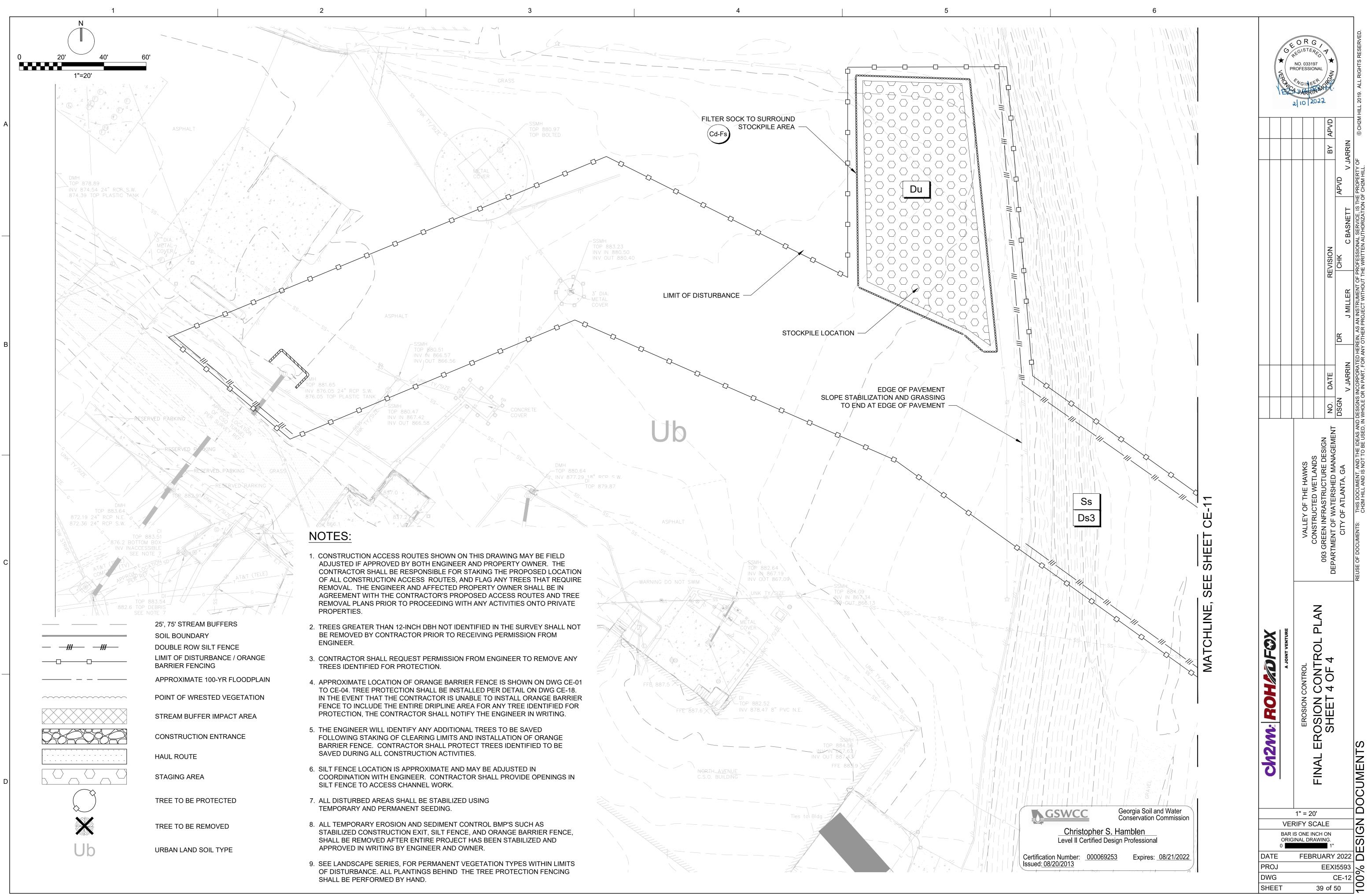


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г	Γ	1		2		
		CERTI	FICATION STA	TEMENTS		
		IGN PROFESSIONAL				1.
		CERTIFY UNDER PENALTY OF LAW T ESCRIBED HEREIN BY MYSELF OR A SIGNATURE :	AY AUTHORIZED AGEN			
	AF	CERTIFY THAT THE PERMITTEE'S ER PPROPRIATE AND COMPREHENSIVE ATER QUALITY CONTROL ACT AND	E SYSTEM OF BEST MA	NAGEMENT PRACTICES	REQUIRED BY THE GEORGIA	N 2.
A	GE JA	EORGIA" (MANUAL) PUBLISHED BY T NUARY 1 OF THE YEAR IN WHICH T AMPLING OF THE RECEIVING WATEF	HE GEORGIA SOIL ANI HE LAND-DISTURBING	D WATER CONSERVATION ACTIVITY WAS PERMIT	ON COMMISSION AS OF TED, PROVIDES FOR THE	3.
	DE	ESIGNED SYSTEM OF BEST MANAGE EQUIREMENTS CONTAINED IN THE &	EMÉNT PRACTICES ANI	D SAMPLING METHODS		
	3. "I (	CERTIFY THAT THE PERMITTEE'S EI				4.
	TF   TF	HE MONITORING OF: (A) ALL PERENI HE USGS TOPOGRAPHIC MAP AND A THER WATER BODIES, OR (B) WHER	NIAL AND INTERMITTEN	NT STREAMS AND OTHE FIED PERENNIAL AND IN	R WATER BODIES SHOWN ON ITERMITTENT STEAMS AND	5.
	AN JU	ND OTHER WATER BODY IS NOT PROJUGNENT, UTILIZING THE FACTORS CREASE IN THE TURBIDITY OF EACI	OPOSED TO BE SAMPL REQUIRED IN THE GEN	ED, I HAVE DETERMINE NERAL NPDES PERMIT N	D IN MY PROFESSIONAL NO. GAR 10001, THAT THE	6.
	RE	EPRESENTATIVE OF THE INCREASE ATER."				7.
	SE	HE DESIGN PROFESSIONAL WHO PR EDIMENT STORAGE REQUIREMENTS ITHIN 7 DAYS AFTER INSTALLATION	S AND PERIMETER CON			
	₽RIM	IARY PERMITTEE				8.
	1. IC	CERTIFY UNDER PENALTY OF LAW T				
	PE PE	RECTION OR SUPERVISION IN ACCO ERSONNEL PROPERLY GATHER AND ERSON OR PERSONS WHO MANAGE	D EVALUATE THE INFOR THE SYSTEM, OR THC	RMATION SUBMITTED. E DSE PERSONS DIRECTL	BASED ON MY INQUIRY OF THE Y RESPONSIBLE FOR	9.
	AT T	ATHERING THE INFORMATION, THE RUE, ACCURATE, AND COMPLETE. I ALSE INFORMATION, INCLUDING THE	AM AWARE THAT THEF	RE ARE SIGNIFICANT PE	NALTIES FOR SUBMITTING	-, 10.
В		NAME : GLEN BEHREND EMAIL: Gbehrend@atlantaga.gov				
		COMPANY: CITY OF ATLANTA, DE ADDRESS: 72 MARIETTA STREET		SHED MANAGEMENT		11.
		CITY/ST/ZIP: ATLANTA, GA 30				12.
		PHONE: (404) 546-1441 PRO	JECT INFORM	ATION		13.
		-HOUR CONTACT AME: KIT HAMBLEN, P.E.				
	PH	HONE NUMBER: (770) 633-13 PS LOCATIONS OF PROJECT (WGS8 CONSTRUCTION EXIT # 1: N: 13	10			14.
		CONSTRUCTION EXIT # 1: N: 13 CONSTRUCTION EXIT # 2: N: 13	370414.78' ,E: 2219707.8 371049.52', E: 2219333.4	32' 15'		15
	<b>√</b> 48 3. AF	REAS:				15. 16.
		ROJECT AREA: NTICIPATED AREA TO BE DISTURBE ITIAL PHASE	6.7 ACRES			17.
	<b>√</b> 9 4. PF	ONSTRUCTION (INTERMEDIATE PHA ROJECT DESCRIPTION: THIS PROJECT INVOLVES CONSTRU	,	CTED WETLAND TO INT	FRCEPT AND DIRECT STORMW	ATER RUNOFF
	E F	AND BASE FLOW AWAY FROM THE N BUILD THE CONSTRUCTED WETLAN AN OUTLET CONTROL STRUCTURE	NORTH AVENUE CSO FA D AND THE SURROUNE WILL TIE INTO THE EXIS	ACILITY AND INTO MOS DING PATHWAYS FOR P STING SAINT JOHN TRU	QUITP HOLE TRIBUTARY. HEAV EDESTRIAN AND/OR MAINTENA NK LINE AND THE PRIMARY CO	Y GRADING TO NCE ACCESS. 18.
С	5. F	STRUCTURE WILL PROVIDE OUTLET RECEIVING WATERS •THE RECEIVING WATERS OF THIS F COMBINED SEWER OVERFLOW FAC	PROJECT ARE THE EXI	STING SAINT JOHN TRU	NK LINE UPSTREAM OF THE NO	
	<b>√</b> 22	WASTEWATER OR CSE OUTFALL TO SUBBASIN. PROCTOR CREEK IS AN IMPAIRED	PROCTOR CREEK. TH	E SITE IS WITHIN THE P	ROCTOR CREEK-CHATTAHOOO	CHEE RIVER
	•	MPLEMENTATION PLAN FOR FECAL A TMDL IMPLEMENTATION PLAN FO				
	10 MA	ASE FLOOD INFORMATION: 0-YEAR FLOOD ELEVATION: UNNAM AP NUMBER: FM1312 JMBER: 13121C	21C0243F	OCTOR CREEK (UNDEF	INED ELEVATION - ZONE X)	
	PA SU	ANEL: 0243F JFFIX: F	MBER 18,2013			
		OILS TYPE: S PER NRCS SOIL DATA MART, SOIL (PE LEGEND, WITH DESCRIPTIONS,			ON SHEETS CE-01 THROUGH C	E-04. SOIL
	8. CF TF	RITICAL AREAS HE AREA BELOW THE NORMAL HIGH	I WATER MARK OF THE		DERED CRITICAL AREAS THAT	WILL RECEIVE
	9. WE	(TRA EROSION CONTROL PROTECT TLANDS E PRESENCE OF ON-SITE WETLAND				
	PR	E PRESENCE OF ON-SITE WEITAND ESENT WITHIN THE PROJECT AREA		ATED AND IT WAS DETI	ERMINED THAT THERE ARE NO	WEILANDS
	ALI BY	L STATE WATERS LOCATED ON ANE ASSOCIATED STATE AND COUNTY -03.				
	AN	JFFERING REQUIREMENTS: N UNDISTURBED NATURAL VEGETA FREAM BANKS AND 25 FEET FROM T				
D	TH RE	HE NATURE OF THE WORK, THE BUF ECEIVE PLANTINGS TO PROVIDE A \	FERS WILL BE DISTUR	BED FOR THIS PROJEC FTER CONSTRUCTION (	T. HOWEVER THE BÙFFER ÂRE COMPLETION.	AS WILL
	✓ 49 TH SE	HE TOPOGRAPHY OF THE PROJECT HE RIPARIAN CORRIDOR AND STREA EDIMENT STORAGE BEST MANAGEM	AM CHANNEL, THEREB' IENT PRACTICES (SED	Y ELIMINATING THE OPI IMENT BASIN) TO ADEQ	PORTUNITY TO USE CENTRALIZ UATELY TREAT SEDIMENT POL	ZED LUTION. TO
	CC FE	EET THE GOALS OF LIMITING SEDIM ONTRACTOR IN COORDINATION WIT EET OF STREAM AT ANY GIVEN TIME RAPS, THE GEORGIA EROSION AND	H LIMITING THE EXTEN DURING CONSTRUCT	IT OF ACTIVE LAND DIS ION. WITHOUT THE USE	TURBANCE TO APPROXIMATEL OF SEDIMENT BASINS AND SE	Y 300 LINEAR DIMENT
	C) Wi PF	Y/ACRE IS NOT ATTAINABLE. THROU ILL BE DIVERTED FROM THE PROJE REVENT EROSION ON SITE. THE VAF	IGH VARIOUS EROSION CT SITE. COMBINING 2 RIOUS EROSION CONTI	N CONTROL METHODS, 2 BYPASS PUMPS TO DI ROL METHODS INCLUDE	BOTH STORMWATER AND STRI SCHARGE AT A DOWNSTREAM E SILT FENCES, ROCK FILTER D	EAMWATER POINT WILL DAMS, FLOW
		ARRIERS, AND RIP RAP. CONTRACT( ND FINAL GRADING.	UK TO ALSO REMOVE A	ANY SEDIMENT RUNOFF	- BUILDUP AS NEEDED TO CON	IPLETE INITIAL
	pw:\\projectwise.ch2m.com:DEN	N003\Documents\705088 - CoA 06 ²		ev of the Hawke\Div		

# GENERAL NOTES:

ALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES AND ORANGE BARRIER FENCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE WORK AND REMAIN UNTIL COMPLETION OF WORK. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE DAMAGED ITEMS. THE CONTRACTOR SHALL INSPECT FENCE DAILY AND AFTER EVERY RAIN EVENT. ACCUMULATED SILT SHALL BE REMOVED AS SOON AS PRACTICAL, BUT NO LATER THAN WHEN FENCE IS HALF FULL.

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

SOIL DISTURBING ACTIVITIES WILL INCLUDE: PLACEMENT OF EROSION AND SEDIMENT CONSTRUCTION, REMOVAL OF EXISTING SITE DEBRIS, EXCAVATION FOR THREE DEEP ZONES AND TWO MARSH ZONES OF THE CONSTRUCTED WETLAND, CONSTRUCTION OF A PRIMARY CONTROL STRUCTURE, 72" PIPELINE, EMERGENCY OVERFLOW STRUCTURE AND NEW PLANTINGS.

CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES INSTALLED IN GOOD WORKING ORDER FOR THE FULL DURATION OF THIS CONTRACT.

EROSION, SEDIMENT AND POLLUTION CONTROL MEASURES SHALL BE PROVIDED AS SHOWN AND ARE THE MINIMUM REQUIRED. ADDITIONAL DEVICES MAY BE REQUIRED AS NECESSARY DURING CONSTRUCTION.

CONTRACTOR SHALL INSTALL AND ADD TO EROSION CONTROL MEASURES AS DETERMINED BY THE ENGINEER, OWNER OR THE CITY.

PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION. THIS DESIGN SHALL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THIS PUBLICATION.

CONSTRUCTION EXITS (Co) SHALL BE REQUIRED AT ALL LOCATIONS USED FOR INGRESS/EGRESS FROM THE CONSTRUCTION AREA. CONSTRUCTION MATERIAL STORAGE AREAS WILL REQUIRE THE INSTALLATION OF A CONSTRUCTION EXIT TO REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE AREA. SILT FENCE SHALL REMAIN UNTIL THE AREA IS PERMANENTLY STABILIZED. AFTER DEMOBILIZATION, THE MATERIAL STORAGE AREA SHALL BE SEEDED AND MULCHED, TO PREVENT SEDIMENT FROM LEAVING THE MATERIAL STORAGE AREA.

CONSTRUCTION DEBRIS (INCLUDING CONCRETE WASHOUT) SHALL BE PROPERLY DISPOSED OF OFFSITE IN LICENSED LANDFILLS OR LOCATIONS THAT ARE APPROVED BY FEDERAL, STATE, AND LOCAL AUTHORITIES. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE SITE WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE SITE OWNER AND/OR THE ENGINEER OF RECORD.

A TEMPORARY COVER OF HEAVY MULCH OR MULCH WITH TEMPORARY SEEDING SHALL BE PLACED ON ALL AREAS WHERE PERMANENT COVER CANNOT BE ESTABLISHED IMMEDIATELY DUE TO SEASONAL LIMITATIONS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT UNDER NO CIRCUMSTANCES SHALL ANY SEDIMENT, TRASH, OR DEBRIS BE ALLOWED ONTO ADJACENT PROPERTIES, PUBLIC LANDS, OR OUTSIDE OF THE CONSTRUCTION LIMITS.

ALL EROSION CONTROL DEVICES, THAT ARE NOT DIRECTLY SPECIFIED AS TO INSTALLATION AND MATERIALS, SHALL MEET THE REQUIREMENTS OF THE GA. DEPT. OF TRANSPORTATION SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION, AND LATEST SUPPLEMENT IN EFFECT AT THE TIME OF BID OPENING OR THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION

ACCEPTANCE AND/OR SUBSEQUENT ACCEPTANCE OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY COA OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS, JURISDICTIONAL WATERS OF THE STATE, AREAS OF THREATENED/ENDANGERED SPECIES, OR AREAS OF HISTORICAL SIGNIFICANCE. IT IS THE OWNER'S RESPONSIBILITY TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR ANY REQUIRED APPROVALS.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

EXISTING CONDITIONS SHOWN BASED ON SURVEY PREPARED BY JACOBS OF ATLANTA, GEORGIA ON 8-8-2019.

CONSTRUCT EARTHEN SUMPS UPSTREAM OF THE WORK IN VALLEY OF THE HAWKS. THE SUMPS SHALL BE SIZED TO ALLOW FOR THE PLACEMENT OF SUMP PUMPS WHICH WILL BE USED TO REROUTE NORMAL FLOW CONDITIONS FOR EACH STREAM THROUGH TEMPORARY PIPING TO THE END OF THE CONSTRUCTED WETLAND. THE SUMPS SHALL BE CONSTRUCTED IN A WAY TO PREVENT FLOW OBSTRUCTIONS WHICH WOULD CAUSE FLOODING IN THE AREA. THE SUMPS SHALL BE BACKFILLED WITH NATIVE SOILS AFTER THE WORK IS COMPLETED.

THE SLOPE STABILIZATION (Ss) SHOWN ON THE PLAN SHEETS SHALL BE USED FOR ALL SLOPES 3:1 AND STEEPER EXCEPT FOR WORK WITHIN THE STREAM CHANNELS PROVIDED THE SLOPES ARE IMMEDIATELY STABILIZED WITH THE PERMANENT BED AND BANK MATERIALS AS SHOWN ON THE CD DRAWING SERIES.

### ✓ 29 ANTICIPATED CONSTRUCTION SCHEDULE

ACTIMTY	MONTHS																
ACTIVITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
INITIAL SITE CONTROLS (TREE PROTECTION, PERIMETER CONTROLS, SILT FENCE)																	
CLEARING, GRUBBING, ROUGH GRADING																	
STRUCTURE INSTALLATION, FINAL GRADING																	
EROSION CONTROL MAINTENANCE, TEMPORARY VEGETATION																	
PERMANENT VEGET AT ION AND LANDSCAPING																	
SITE CLOSURE AND CLEAN-UP																	

**√**47

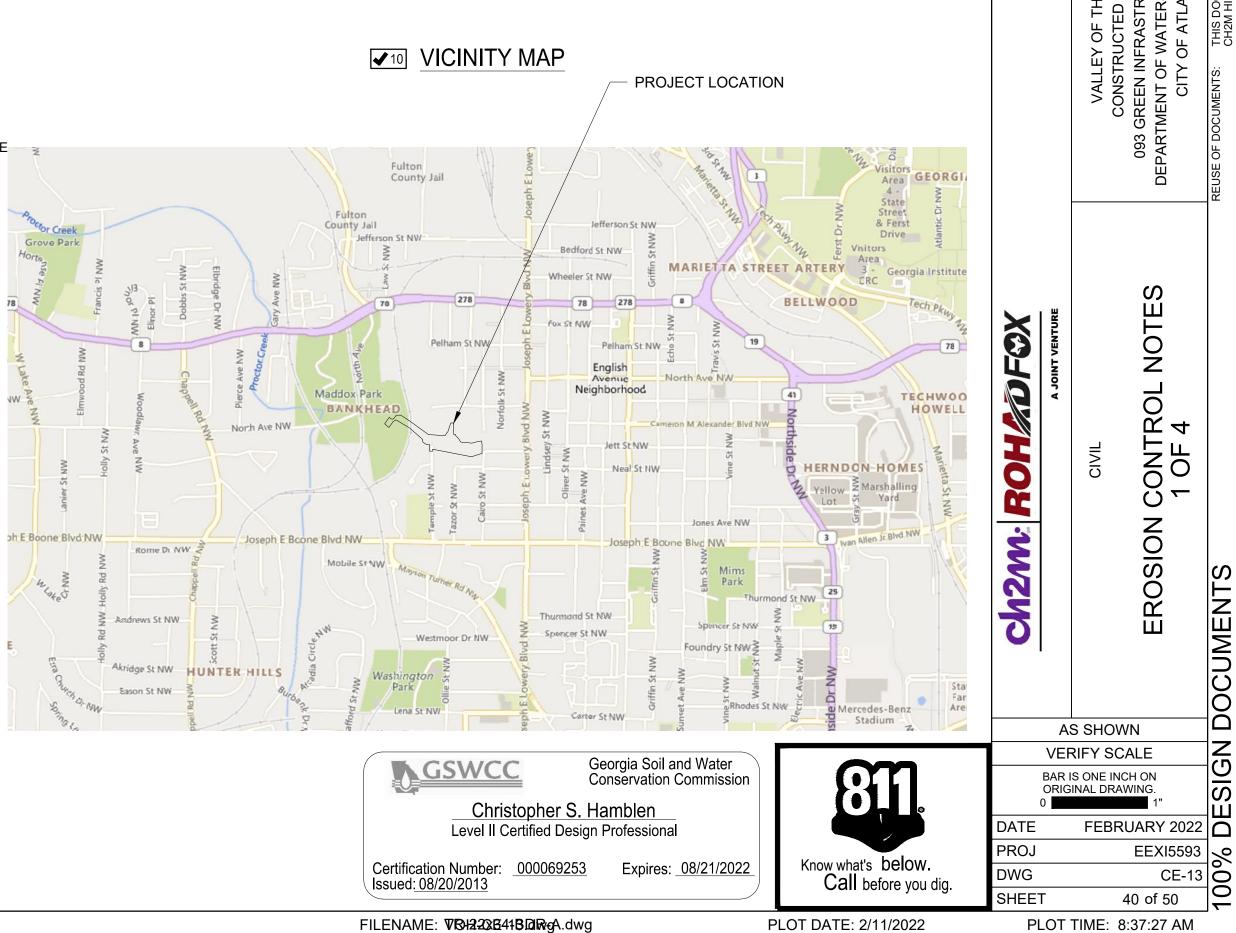
	SOIL SURVEY DATA	
MAP UNIT SYMBOL	MAP UNIT NAME	AREA OF INTEREST (%)
Ub	URBAN LAND	100%

1	NOTIEV ENGINEER AND OWNER 72 HOURS	PRI

1. NOTIFY ENGINEER AND OWNER 72 HOURS PRIOR TO THE BEGINNING OF EVERY PHASE OF CONSTRUCTION. 2. PROVIDE BMP'S FOR REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.

- AND PERMITS. **√**16 2. BUFFER ENCROACHMENTS BUFFER. SINCE THE PURPOSE OF THE PROJECT IS TO RESTORE THE STREAM.
- **√**17 3. COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. EFFECT ON BMPS WITH A HYDRAULIC COMPONENT.

  - 404 PERMIT. CONCRETE WASHOUT OR EXCAVATED SEDIMENT.
- CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- **√**20 6. SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- **√**21 7. TEMPORARY SEEDING.





# **NOTIFICATIONS**

# **REQUIRED NOTES**

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES

2.1. CONSTRUCTION OF THE PROJECT REQUIRES PERFORMING WORK WITHIN THE DELINEATED, 25 FOOT STREAM

2.2. THE FOLLOWING PERMITS ARE REQUIRED FOR CONSTRUCTION OF THIS PROJECT: GEORGIA EPD STREAM BUFFER VARIANCE, USACE NATIONWIDE PERMIT (TBD), AND A CITY OF ATLANTA STREAM BUFFER VARIANCE.

AMMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC 3.1 THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, SHALL AMEND THEIR PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT

3.2 ALL REVISIONS OR AMENDMENTS SHALL BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY FOR REVIEW.

4. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION

4.1 INCLUDING BUT NOT LIMITED TO WASTE BUILDING MATERIALS, CONSTRUCTION AND DEMOLITION DEBRIS,

✓ 19 5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR

EORG GISTER NO. 033197 PROFESSIONAL | <u>ଲ</u> |  $> |_{\succ}$ AN INS DATI DSG DSG



### WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.0.4.B.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY

4

PERMITTEES. CERTIFIED PERSONNEL (PROVIDED BY THE SECONDARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THEIR SITES THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES. BASED ON THE RESULTS OF EACH INSPECTION, THE SECONDARY PERMITTEE MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF ANY SUSPECTED BMP DESIGN DEFICIENCIES. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE. AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST

BASED ON THE RESULTS OF EACH INSPECTION, THE SECONDARY PERMITTEE MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF ANY SUSPECTED BMP DESIGN DEFICIENCIES. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE. AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.C. OF THIS PERMIT TO ADDRESS THOSE DEFICIENT BMPS WITHIN SEVEN (7) DAYS OF BEING NOTIFIED BY THE SECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED. THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEE(S) WITHIN THIS SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEES MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITE(S) WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION THAT INCLUDES THE NAME (S). OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION THAT INCLUDES THE NAME (S). OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION THAT INCLUDES THE NAME (S). OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION THAT INCLUDES THE NAME (S). OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION THAT INCLUDES THE PROMIT SHALL BE MADE AND POLLUTION CONTROL PLAN, AND ACTIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.B.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF TH

3

SAMPLING V 31 V 33 STORMWATER SAMPLING SHALL BE IN ACCORDANCE WITH THE METHODOLOGY IN THE NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-98-001, AND THE NPDES GENERAL CONSTRUCTION NO. GAR100001 PREPARED BY THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION.

 A. FREQUENCY
 A.1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:
 A.1.1. THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER A.1.1. THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

QUALIFYING EVENT. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS: 1. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING L OCATION:

SAMPLING LOCATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION; IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES EIDEST.

FIRST; AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED; AND EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY

# SAMPLING REQUIREMENTS. B.1. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SECTION IS APPLICABLE TO PRIMARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES. THIS SECTION IS NOT APPLICABLE TO SECONDARY PERMITTEES. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY. A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING: C.1. A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP SHOWING THE LOCATION OF THE SITE OP THE COMMON.

EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE COMMON DEVELOPMENT;
 THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND
 THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
 THE ANALYTICAL METHOD USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION:

ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION; WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

MPLE TYPE.
ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.
1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
3. LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
4. MANUAL AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE

MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

AMPLING POINTS. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES: .a. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE

VALUE.
THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED BY THE PROJECT AND WITH A DEDISTIVE OF 20% OP CALL OF A COVERED AND SUPPORT COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VÈGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF

# REPORTING **4**31 **3**3

- FREQUENT BASIS.
- D

# RETENTION OF RECORDS

- A.1. A.2. A.3. IV.A.5. OF THIS PERMIT; A.4. A.5. A.6 OF THIS PERMIT C.1 C.2 C.3
- OF THIS PERMIT: AND C.7. D.

		MONI	FORING SITE
MONITORING SITE	LOCATION	TYPE OF SITE *	TOTAL BASIN AREA (ACRES)
1	N : 1368150.54' E : 2217395.85'	RW-U	785
2	N : 1367991.39' E : 2217118.54'	RW-U	570
3	N : 1369085.94' E : 2217113.30'	RW-D	1436

* LEGEND Inflow to Site OUT RW-D RW-U

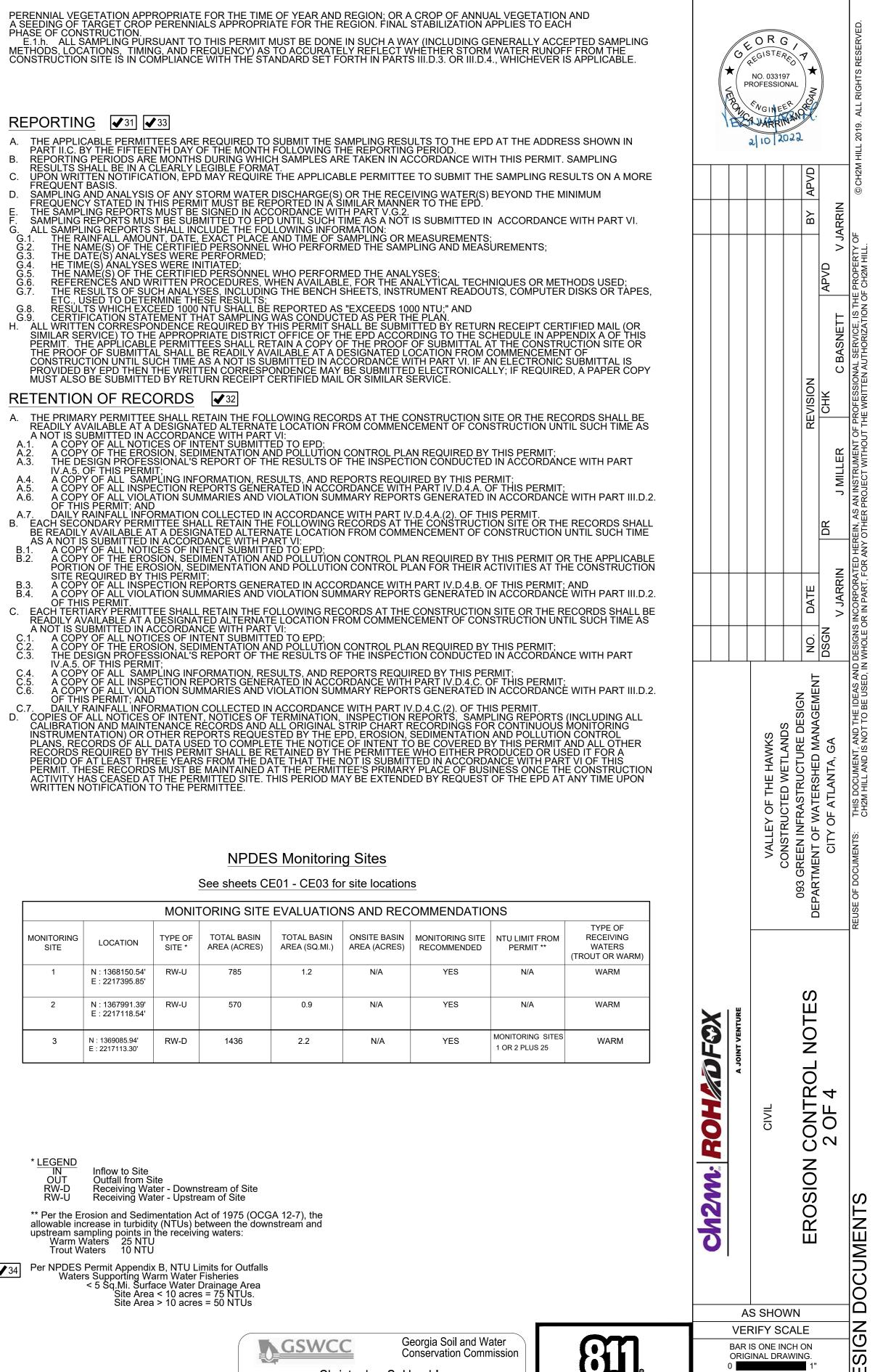
Outfall from Site Receiving Water - Downstream of Site Receiving Water - Upstream of Site ** Per the Erosion and Sedimentation Act of 1975 (OCGA 12-7), the allowable increase in turbidity (NTUs) between the downstream and upstream sampling points in the receiving waters:

Warm Waters 25 NTU Trout Waters 10 NTU ✔ 34

Per NPDES Permit Appendix B, NTU Limits for Outfalls Waters Supporting Warm Water Fisheries < 5 Sq.Mi. Surface Water Drainage Area Site Area < 10 acres = 75 NTUs Site Area > 10 acres = 50 NTUs



Issued: 08/20/2013



Christopher S. Hamblen Level II Certified Design Professional

Certification Number: 000069253 Expires: 08/21/2022

FILENAME: VOH-CE-14.dwg

PLOT DATE: 2/10/2022

Know what's below.

Call before you dig.

PLOT TIME: 1:36:40 PM

DATE

PROJ

DWG

HEET

FEBRUARY 2022

41 of 50

EEXI5593

CE-14 O



**I J** 36 PHASE III - FINAL PHASE: CONSTRUCTION COMPLETION AND FINAL STABILIZATION Install / Construct all BMPs as provided on Sheet CE-03 Submit Notice of Termination.

SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. FAILURE TO INSTALLED IF NEW CHAINNELS HAVE DEVELOPED. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS. UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED OTHERWISE ON PLANS.

### POLLUTION CONTROL

THE MOST EFFICIENT METHOD OF DUST CONTROL FOR THE SITE SHALL BE DETERMINED EXPERIMENTALLY AND MAY CONSIST OF TEMPORARY MEASURES SUCH AS MULCHES, VEGETATIVE COVER, SPRAY-ON ADHESIVES, TILLAGE, IRRIGATION, BARRIERS AND/OR THE APPLICATION OF CALCIUM CHLORIDE.
 LIKEWISE, IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT PAD DOES NOT SUFFICIENTLY REMOVE THE MUD FROM VEHICLE TIRES, THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
 2.A. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND PROVISIONS THAT INTERCEPT THE SEDIMENT-LADEN RUNOFF AND DIRECT IT INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 WASHOUT OF THE DRUM OF A CONCRETE TRUCK AT THE CONSTRUCTION SITE IS PROHIBITED.
 CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN A DESIGNATED AREA PROVIDED FOR THIS PURPOSE, AS SHOWN ON THE DRAWINGS.
 4.A. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE FOLLOWED:
 4.A.1. CONTAIN ALL WASH WATER ON SOIL, IN A BOWL SHAPED AREA CREATED IN THE DESIGNATED WASH AREA TO PREVENT THE WASH WATER FROM FLOWING FROM THE WASHDUT AREA;
 4.A.2. USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES;

REAR OF VEHICLES;

REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS; AND REMOVE ALL CONCRETE RESIDUE FROM THE DESIGNATED AREA ONCE IT HAS HARDENED. **✓**²⁸STORMWATER DISCHARGE POLLUTANT REDUCTION

ALL POLLUTANTS FROM WASTE DISPOSAL PRACTICES, SOIL ADDITIVES, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK WASHOUT, ETC., SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BEST MANAGEMENT PRACTICES.

THE SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS. PRODUCT SPECIFIC PRACTICES:

^{1.} PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED A DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR

EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES. PLASTIC SHEETING OR TEMPORARY ROOFS SHALL BE USED TO COVER BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE

THE FOLLOWING IS A DESCRIPTION OF MEASURES THAT MAY BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED

STORMWATER RETENTION / DETENTION STRUCTURES FLOW ATTENUATION OF RUNOFF ON-SITE INFILTRATION OF RUNOFF ON-SITE VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL FOR THE PURPOSE PROVIDING A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED [E.G. NO SIGNIFICANT CHANGES IN THE HYDROLOGICAL REGIME OF THE RECEIVING WATER(S).]

SEQUENTIAL SYSTEMS (WHICH COMBINE SEVERAL PRACTICES) STRUCTURAL MEASURES SHOULD BE PLACED ON UPLAND SOILS TO THE DEGREE ATTAINABLE THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA THE ENSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA THE ESPCP ONLY ADDRESSES THE INSTALLATION OF STORWATER MANAGEMENT MEASURES, AND NOT THE ULTIMATE OPERATION AND AND MAINTENANCE OF SUCH STRUCTURES AFTER THE CONSTRUCTION ACTIVITIES HAVE REFN COMPLETED AND THE SITE HAS AND MAINTENANCE OF SUCH STRUCTURES AFTER THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. OPERATORS ARE ONLY RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORMWATER MANAGEMENT MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE, AND ARE NOT RESPONSIBLE FOR MAINTENANCE AFTER STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAVE BEEN ELIMINATED FROM THE SITE.

✓25 SPILL CLEANUP AND CONTROL PRACTICES

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE TO SITE PERSONNEL

2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

4.A. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. 4.B. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED

WITHIN 24 HOURS. 4.C. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL

AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANYONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND

COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT CLEANING COMPOUNDS, HERBICIDES, TERMITICITES, FUNGICIDE, WEED KILLERS, PESTICIDE, ETC. PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. ANY DISTURBED AREAS REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.

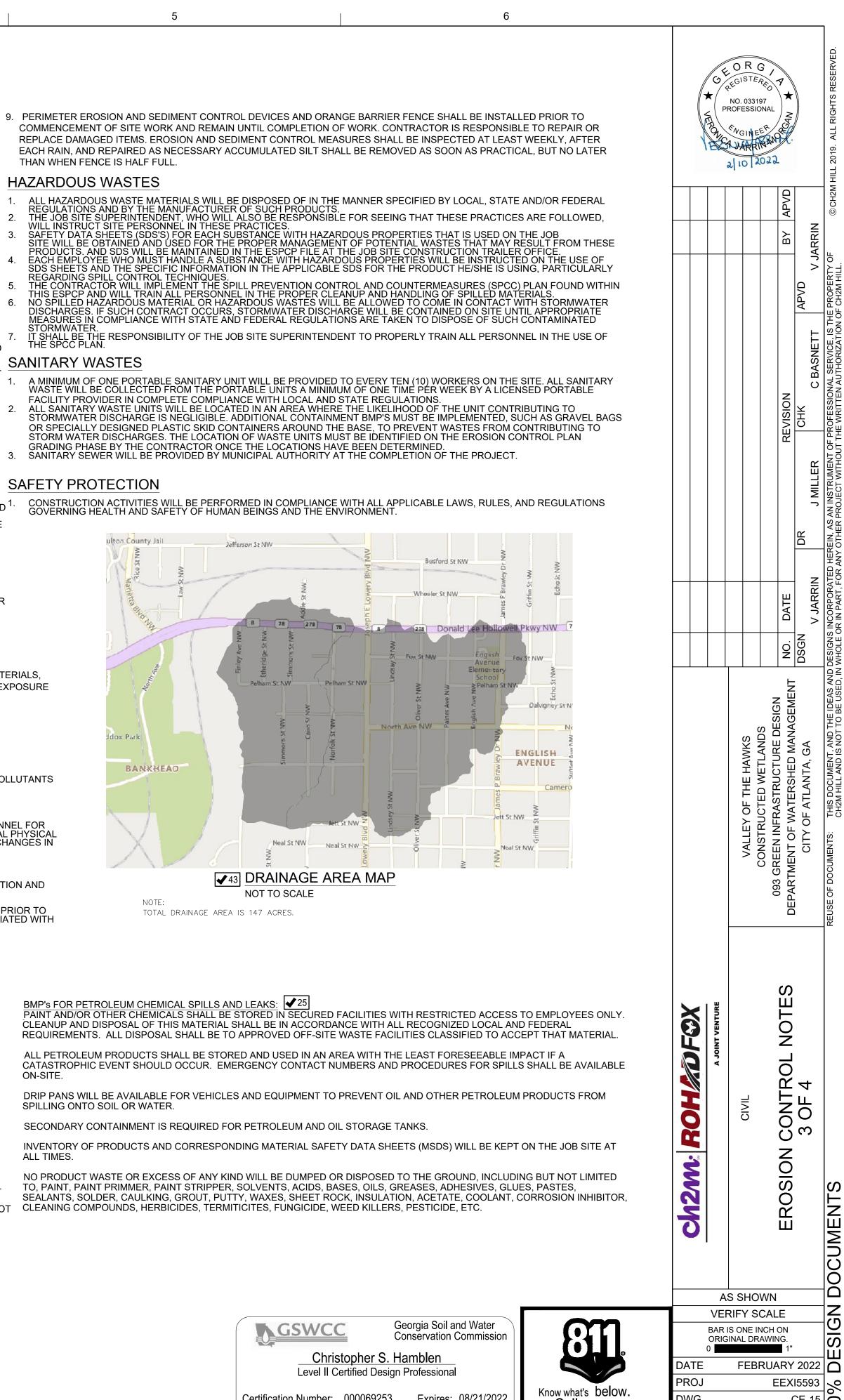
THAN WHEN FENCE IS HALF FULL.

### HAZARDOUS WASTES

- TORMWATER

# SANITARY WASTES

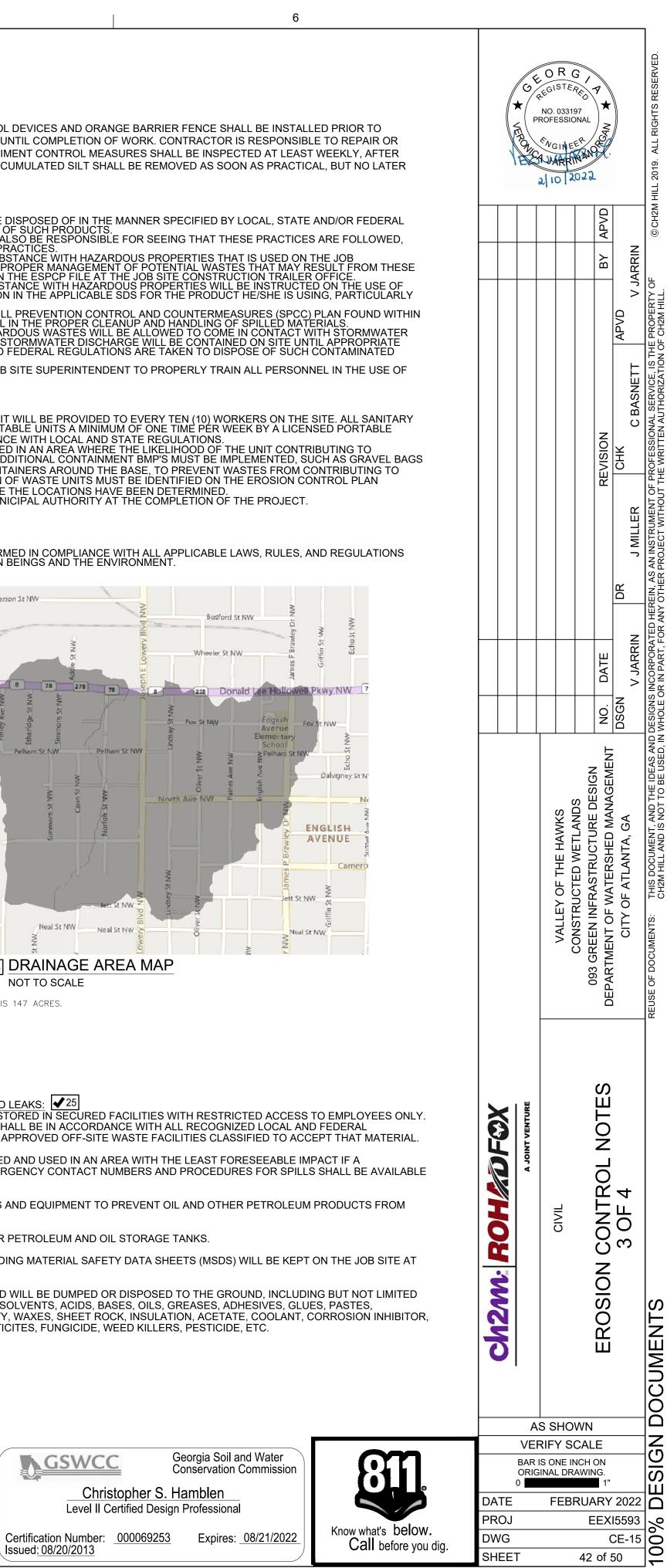
# SAFETY PROTECTION



ON-SITE.

SPILLING ONTO SOIL OR WATER.

ALL TIMES.



FILENAME: VBH223B41BDRgA.dwg

PLOT DATE: 2/10/2022

PLOT TIME: 1:36:49 PM

г	1	2			3
		MULC	HING RATE		Georgia Soil & Water Conservation Commission
		MATERIAL	RATE	DEPTH	Manual for Erosion and Sediment Control in Georgia (and Table 6-4.1 - Plants, planting rates and planting dates for
		STRAW	2.0 TON/ACRE	2" - 4"	Major Land Resource Area (MLRA): Southern Piedmont Broadcast Rates
		НАҮ	2.5 TON/ACRE	2" - 4"	per 1000
	Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	WOOD WASTE: CHIPS, SAWDUST, BARK	-	2" - 3"	per acre     sq.ft.       Species     (lbs.)     (lbs.)
		Polyethylene Film	Secure w/ soil and anchors		Lovegrass, weeping (Eragrosits curvula)         alone       4
,	DEFINITION APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBL				in mixtures     2     0.05       Millet, browntop (Panicum faxciculatum)
A	CONDITIONS	LE, TO THE SOIL SURF	AGE.		alone         40         0.9           in mixtures         10         0.2
	MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS O	E DISTURBANCE MUL	CH CAN BE USED A	AS A	Millet, pearl (Pennesetum glaucum)
	SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE A MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SU	APPROPRIATE DEPTH,	DEPENDING ON T	ΉE	alone     50     1.1       Ryegrass, annual (Lolium temulentum)     -
	MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED IN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATE				alone     40     0.9       * 'X' are optimum dates; '-' are permissible but marginal dates
	TECHNIQUES SHALL BE EMPLOYED.				
					Ds3 DISTURBED AREA STA (WITH PERMANENT)
	MULCHING WITHOUT SEEDING THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SU EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.	IITABLE GROWING SEA	SON TO PRODUCE	E AN	
-	SITE PREPARATION				THE PLANTING OF PERENNIAL VEGETATION SUC AREAS FOR FINAL PERMANENT STABILIZATION.
	<ol> <li>GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.</li> <li>INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS,</li> </ol>	BERMS, TERRACES A	ND SEDIMENT BAR	RIERS.	FINAL STABILIZATION
	3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.				PERMANENT PERENNIAL VEGETATION IS USED
	MULCHING MATERIALS SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:				CUTS, FILLS, DAMS, AND OTHER DENUDED ARE. SPECIFICATIONS
	<ol> <li>DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE MATERIAL IS EASY APPLICATION.</li> <li>WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES.</li> </ol>				GRADING AND SHAPING
	2. OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS MET EROSION CONTROL COSTS.				1. GRADING AND SHAPING MAY NOT BE REQU BE USED. VERTICAL BANKS SHALL BE SLOP 2. WHEN CONVENTIONAL SEEDING AND FERT
	<ol> <li>CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 G.</li> <li>POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR ⁻¹</li> </ol>		ION. THIS MATERI	AL CAN BE	PRACTICAL, SO THAT EQUIPMENT CAN BE U SEEDING, MULCHING AND MAINTENANCE O
в	SALVAGED AND REUSED.				3. CONCENTRATIONS OF WATER THAT WILL C OUTLET. DIVERSIONS AND OTHER TREATM AND SPECIFICATIONS.
	APPLYING MULCH WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAG 1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY				SEEDBED PREPARATION • SEEDBED PREPARATION MAY NOT BE REQU
	<ol> <li>IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS O NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE</li> </ol>	F NITROGEN PER ACR	E IN ADDITION TO		BE USED. WHEN CONVENTIONAL SEEDING
	3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PE 'TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.				BROADCAST PLANTINGS 1. TILLAGE AT A MINIMUM, SHALL ADEQUATEL COMPACTION; INCORPORATE LIME AND FEI
	4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.				PLACEMENT OF SEED, SPRIGS, OR PLANTS IS TO BE USED.
	ANCHORING MULCH 1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK DISK " DISKS MAY BE SMOOTH OR SERBATED AND SHOLL DISK BARROW WITH THE DISK				2. TILLAGE MAY BE DONE WITH ANY SUITABLE 3. TILLAGE SHOULD BE DONE ON THE CONTO 4. ON SLOPES TOO STEEP FOR THE SAFE OPE
	DISK." DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMET THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR H	L LEAVING MUCH OF IT	IN AN ERECT POS	SITION.	OR TRENCHED ACROSS THE SLOPE WITH A APART IN WHICH SEED MAY LODGE AND GE
	EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPH MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AN	ALT EMULSION SHALL	BE SPRAYED ONT	TO THE	INDIVIDUAL PLANTS 1. WHERE INDIVIDUAL PLANTS ARE TO BE SET
	TACKIFERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE II				FURROWS, OR DIBBLE PLANTING. 2. FOR NURSERY STOCK PLANTS, HOLES SHA 3. WHERE PINE SEEDLINGS ARE TO BE PLANT
	<ul> <li>SPECIFICATIONS.</li> <li>2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS C AVERAGE SIZE OF THE WOOD WASTE CHIPS.</li> </ul>	OF THE NETTING SHALI	NOT BE LARGER	THAN THE	TO SIX MONTHS PRIOR TO PLANTING. SUBS AUGUST OR SEPTEMBER.
	<ol> <li>3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY</li> </ol>	Y AS NECESSARY.			PLANTING
					1. HYDRAULIC SEEDING MIX THE SEED (INNOCULATED IF NE FIBER MULCH WITH WATER AND AP
	Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARYSEEDING)				APPLY WITHIN ONE HOUR AFTER TI 2. CONVENTIONAL SEEDING
	DEFINITION				SEEDING WILL BE DONE ON A FRES PLANTING, USE A CULTIPACKER SE HAND SEEDING TO DISTRIBUTE THE
с	THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDING	S FOR SEASONAL PI	ROTECTION ON		SEED LIGHTLY WITH 1/8 TO 1/4 INCH WHEN USING A CULTIPACKER OR C
	DISTURBED OR DENUDED AREAS. <u>CONDITIONS</u>				3. NO-TILL SEEDING NO-TILL SEEDING IS PERMISSIBLE I
	TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS MONTHS, TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANI	THAT WILL BE EXPO	SED FOR LESS T	THAN SIX	FOLLOWING MATURITY OF THE CON ENOUGH TO ALLOW ADEQUATE GR SEEDING SHALL BE DONE WITH APP
	MONTHS. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANI AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO PERMANENT VEGETATION IS ESTABLISHED.	USE AS COMPANION	CROPS UNTIL T	HĔ	UNIFORMLY DISTRIBUTED AND PLA 4. INDIVIDUAL PLANTS
	SPECIFICATIONS				SHRUBS, VINES AND SPRIGS MAY E TREES SHALL BE PLANTED MANUAI
	GRADING AND SHAPING EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLEI			ICH AS	MANNER THAT WILL AVOID CROWD THE SAME DEPTH OR SLIGHTLY DE AND SPRIGS MUST BE AT OR SLIGH
	CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.				ARE DUG, FERTILIZER SHALL BE PL BE ADDED AND THE PLANT SHALL E
	NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED \ EQUIPMENT IS TO BE USED.	VEGETATION OR IF H	TURAULIC SEED	ING	MULCHING 1. MULCH IS REQUIRED FOR ALL PERMANE
	SEEDBED PREPARATION WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN U			DING	AREAS SHALL ACHIEVE 75% SOIL COVE APPLY AS INDICATED:
	SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEAL	LED BY RAINFALL.			2. DRY STRAW OR DRY HAY OF GOOD QUA SHALL BE APPLIED AT THE RATE OF 2 TO
	WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.	JUIL SHALL BE PIT I	ט, irenched U	νī	TONS PER ACRE. 3. WOOD CELLULOSE MULCH OR WOOD PUBE APPLIED AT THE RATE OF 500 POUNI
	LIME AND FERTILIZER AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGR	CULTURAL LIME AT	A RATE OF ONE	TON PER	4. ONE THOUSAND POUNDS OF WOOD CEI
	ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY L 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE AF	E IF FERTILIZER IS NE OW FERTILITY, 500 T	EDED. ON REAS	ONABLY DF	SHALL BE USED WITH HYDRAULIC SEED 5. SERICEA LESPEDEZA HAY CONTAINING PER ACRE.
	BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL. SEEDING				6. PINE STRAW OR PINE BARK SHALL BE A OTHER SUITABLE MATERIALS IN SUFFIC
	SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF T	HE YEAR. SEED SHA			GROUND COVERS ARE PLANTED. THIS I 7. WHEN USING TEMPORARY EROSION CC
D	UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRAULIC SI FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUA APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "I	EEDER (SLURRY INC ARTER TO ONE-HALF RAKED" LIGHTLY TO	LUDING SEED AN INCH DEEP. COVER SEED WI	יטי TH SOIL	8. BITUMINOUS TREATED ROVING MAY BE WATERWAYS TO PREVENT EROSION. BI HOURS AFTER AN AREA HAS BEEN PLAN
	IF SEEDED BY HAND. MULCHING				<ul> <li>GEORGIA DEPARTMENT OF TRANSPORT</li> <li>9. WOOD CELLULOSE AND WOOD PULP FIL</li> </ul>
	TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF M		OUT SEEDING SH	HOULD	FACTORS. THEY SHALL BE EVENLY DISF A DYE TO ALLOW VISUAL METERING AN
	BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO DS1 - DISTURBED AREA STABI	ILIZATION (WITH MUL	CHING ONLY).		APPLYING MULCH 1. STRAW OR HAY MULCH WILL BE SPREA
	DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBS	AND EROSION. THE	SOIL SHALL BE	MADE	PLANTING. THE MULCH MAY BE SPREAD EQUIPMENT OR BY HAND. MULCH SHALI
	WHEN NEEDED.				2. WOOD CELLULOSE OR WOOD FIBER MU EQUIPMENT.

3

4

X X X X 227,000 seed per pound. Dense cover. Very competitive

and is <u>not</u> used in mixtures

	•														·
gia Soil & Water Con	servation	Commiss	ion	l											
l for Erosion and Sedime	ent Control	in Georgia	(an	nen	ded	201	14)								
6-4.1 - Plants, planting ra	ates and pla	inting dates	for	: TE	MF	IO	RAF	۲Y	СО	VE	R o	or C	ON	<b>IP</b> A	ANION CROPS
Land Resource Area (M	LRA): Sout	thern Piedn	non	t (F	<b>)</b> , Į	ber	Fig	ire	6 <b>-</b> 4.	1					
	Broadca	st Rates				F	² lan	ting	g Da	tes	*				
		per 1000													
	per acre	sq.ft.													
Species	(lbs.)	(lbs.)	J	F	М	А	М	J	J	Α	S	0	N	D	Remarks
ass, weeping (Eragrosits c	urvula)														
one	4	0.1			-	Х	Х	-							1,500,000 seed per pound. May last for several years.
mixtures	2	0.05													Mix with Sericea lespedeza.
browntop (Panicum faxcio	culatum)														137,000 seed per pound. Quick dense cover. Will
one	40	0.9				-	Х	Х	-						provide too much competition in mixtures if seeded at
mixtures	10	0.2													high rates.
pearl (Pennesetum glaucu	m)														
						-	Х	Х	Х	-					88,000 seed per pound. Quick dense cover. May reach 5
one	50	1.1													feet in height. Not recommended for mixtures.

# DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)

ANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE ABILIZATION.

VENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING ILLS, DAMS, AND OTHER DENUDED AREAS. CATIONS

ADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT. EN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND CTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, DING, MULCHING AND MAINTENANCE OF THE VEGETATION. ICENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE LET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS SPECIFICATIONS.

D PREPARATION DEED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO JSED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS: AST PLANTINGS

LAST PLANTINGS LAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE VIPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER ACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK ) BE USED.

AGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT. AGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE. SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES RT IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

AL PLANTS ERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING ROWS, OR DIBBLE PLANTING. ROWS, OR DIBBLE PLANTING. NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING. ERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN UST OR SEPTEMBER.

# DRAULIC SEEDING

MIX THE SEED (INNOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

NVENTIONAL SEEDING SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT. TILL SEEDING

NO-TILL SEEDING NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH. VIDUAL PLANTS

SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS. NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TIPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE. WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE, TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE.

LCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED EAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND LY AS INDICATED: STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW ALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2

S PER ACRE OD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRYSTRAW OR DRY HAY SHALL BE APPLIED (AT E RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING. E THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, ALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER. RICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS

E STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. HER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER OUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS. EN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED. UMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY TERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 URS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET ORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. OD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING CTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN OYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

NG MULCH RAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR ANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING UIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. OOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING JIPMENT

ANCHORING MULCH

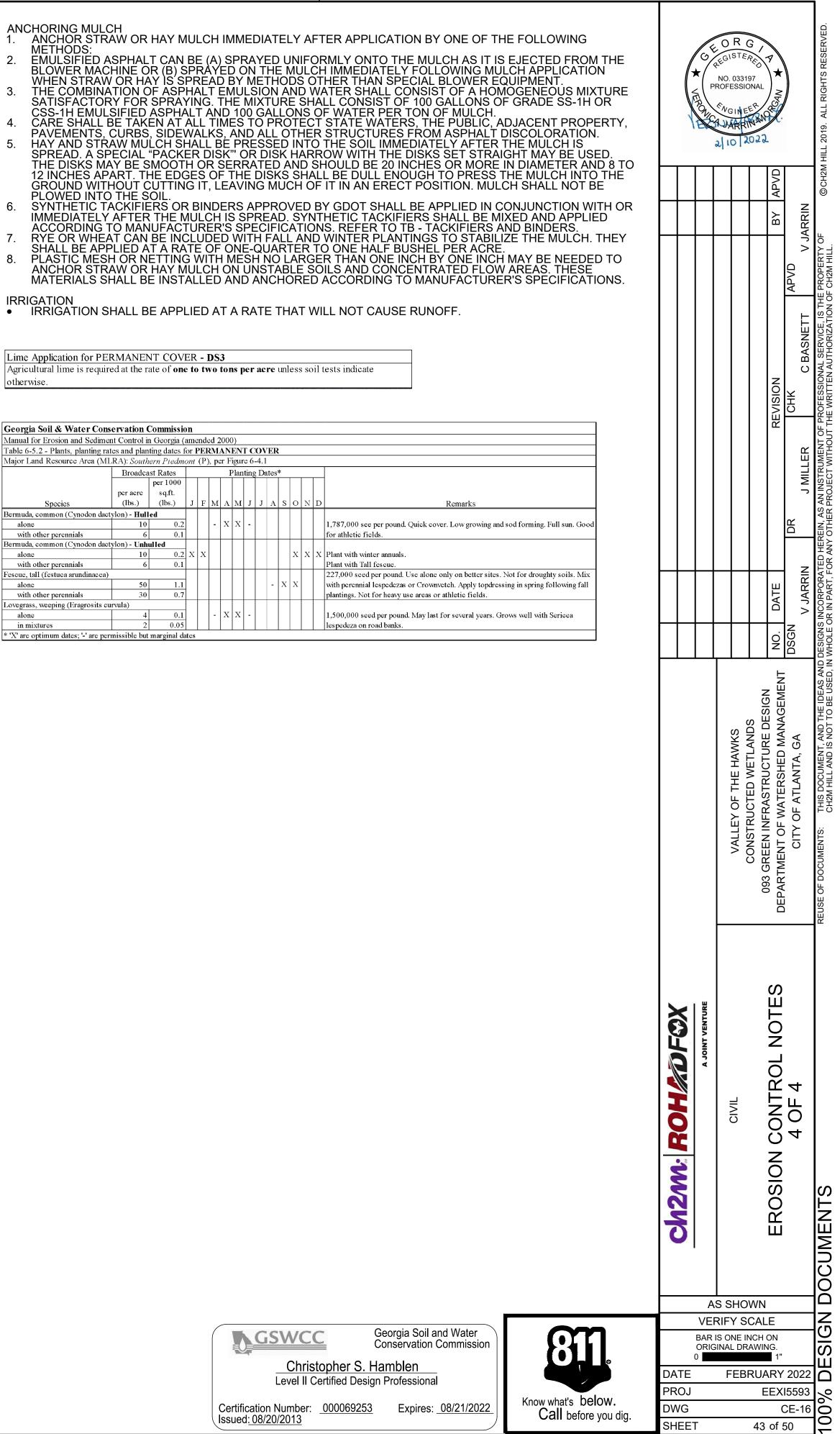
- METHODS 2.

- PLOWED INTO THE SOI

IRRIGATION

Lime Application for PERMANENT COVER - DS3 Agricultural lime is required at the rate of **one to two tons per acre** unless soil tests indicate otherwise.

nservation (	Commissio	n				
nent Control i	1 Georgia (	ame	nde	ed 2	2000	))
rates and plan	ting dates f	òr I	PEF	۲M	AN	EN
ALRA): South	ern Piedm	ont	(P)	), pe	яF	igu
Broadca	st Rates				I	Pla
	per 1000					
per acre	sq.ft.					
(lbs.)	(lbs.)	J	F	Μ	Α	Μ
ectylon) - Hull	ed					
10	0.2			-	Х	X
6	0.1					
etylon) - Unh	ulled					
10	0.2	Х	X			
6	0.1					
a)						
50	1.1					
30	0.7					
curvula)						
4	0.1			-	Х	X
2	0.05					
	nent Control in rates and plan ALRA): South Broadca per acre (lbs.) actylon) - Hull 10 6 actylon) - Unh 10 6 actylon) - Unh 50 30 curvula)	hent Control in Georgia ( rates and planting dates f ALRA): Southern Piedme Broadcast Rates per 1000 per acre sq.ft. (lbs.) (lbs.) actylon) - Hulled 10 0.2 6 0.1 actylon) - Unhulled 10 0.2 6 0.1 10 0.2 10 0.2	rates and planting dates for J       MLRA): Southern Piedmont       Broadcast Rates     per 1000       per acre     sq.ft.       (lbs.)     (lbs.)     J       actylon) - Hulled       10     0.2       6     0.1       actylon) - Unhulled       10     0.2       30     0.7       curvula)     4	Inent Control in Georgia (amender rates and planting dates for PEI ALRA): Southern Piedmont (P)           Broadcast Rates           per 1000           per acre           (lbs.)           (lbs.)           (lbs.)           10           6           10           6           10           200           6           10           200           30           0.7           curvula)           4	nent Control in Georgia (amended 2 rates and planting dates for PERM ALRA): Southern Piedmont (P), pe Broadcast Rates per 1000 per acre sq.ft. (lbs.) (lbs.) J F M actylon) - Hulled 10 0.2 6 0.1 actylon) - Unhulled 10 0.2 6 0.1 x X actylon) - Unhulled 10 0.2 50 1.1 30 0.7 curvula	nent Control in Georgia (amended 2000 rates and planting dates for PERMAN ALRA): Southern Piedmont (P), per F       Broadcast Rates     I       per 1000     per 1000       per acre     sq.ft.       (lbs.)     (lbs.)       J     F       MALRA): Southern Piedmont (P), per F       Broadcast Rates     I       per 1000     per acre       sq.ft.     J       (lbs.)     J       F     M       A     A       actylon) - Hulled     -       10     0.2       6     0.1       actylon) - Unhulled       10     0.2       30     0.7       curvula)     -       4     0.1



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PLOT DATE: 2/10/2022

PLOT TIME: 1:37:01 PM

	1 2		
	DU DUST CONTROL ON DISTURBED AREAS		
	DEFINITION		Table
	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND	TYPE OF SPECIES	YEAR
	DEMOLITION SITES. <u>CONDITIONS</u>	1. Cool season grasses	First Second Maintenance
A	THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT. METHOD AND MATERIALS	2. Cool season grasses and legumes	First Second Maintenance
	<ul> <li>A. TEMPORARY METHODS</li> <li>MULCHES. SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).</li> </ul>	3. Ground covers	First Second Maintenance
	SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.	4. Pine seedlings	First
	<ul> <li>VEGETATIVE COVER. SEE STANDARD DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).</li> <li>SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK</li> </ul>	5. Shrub Lespedeza	First Maintenance
	<ul> <li>SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD TB-TACKIFIERS AND BINDERS.</li> <li>TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES</li> </ul>	6. Temporary cover crops seeded alone	First
	<ul> <li>APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT</li> <li>WHICH MAY PRODUCE THE DESIRED EFFECT.</li> <li>IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED</li> </ul>	7. Warm season grasses	First Second Maintenance
	<ul> <li>WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.</li> <li>BARRIERS. SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15</li> </ul>	8. Warm season grasses and legumes	First Second Maintenance
	<ul> <li>TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.</li> <li>CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.</li> </ul>		
В	<ul> <li>B. PERMANENT METHODS</li> <li>PERMANENT VEGETATION: SEE STANDARD DS3 -DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE</li> </ul>		
	<ul> <li>PROTECTION IF LEFT IN PLACE.</li> <li>TOPSOILING: THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE STANDARD TP - TOPSOILING.</li> <li>STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD</li> </ul>		
	CR-CONSTRUCTION ROAD STABILIZATION.		
	TYPICAL INSTALLATION GUIDELINES FOR ROLLED	EROS	
	EROSION CONTROL PRODUCTS (RECP)		<u>C</u>
	Ss         BLANKET AND MATTING CROSS-SECTIONS           UPSTREAM TERMINAL         TRANSVERSE CHECK SLOT         DOWNSTREAM TERMINAL		A./
			<u>∽</u> ► ↓
С	STEP 1: CUT TERMINAL SLOT.       STEP 1: CUT TERMINAL SLOT.         STEP 1: CUT TERMINAL SLOT.       STEP 1: CUT TERMINAL SLOT.	DISTURBED (WORK) AREA	
			18" MIN.
	STEP 2: SNUG MAT INTO SLOT. CHECK SLOT AND LAP BACK 15". MAT INTO SLOT.	<u>NOTE</u> : FILTER CONDITIONS (1	
	STEP 3: A. STAKE MAT INTO SLOT.		
	<ul> <li>B. USE 1" X 3" PRESSURE TREATED BOARD TO SPACE MAT AGAINST VERTICAL CUT.</li> <li>C. BACKFILL AND COMPACT.</li> </ul>		(
	STEP 4:       STEP 4:       -   -↓ ' ↓       ✓       STEP 4:       -   -↓           A. REVERSE MAT ROLL DIRECTION TO OVERLAY CHECK LOT.       A. BACKFILL AND PROGRESS UPSTREAM       A. ROLL MAT UP-       -            B. STAKE MAT TO ANCHOR TERMINAL.       NO LONGER NEEDED FOR TENSIONING.       B. STAKE MAT DOWN TO ANCHOR TERMINAL.       NO LONGER NEEDED FOR TENSIONING.       B. STAKE MAT DOWN TO ANCHOR TERMINAL.		
	SEQUENTIAL ROLL RUN OUT IN CHANNELS		
D	ROLL #1 ROLL #2		
D			
	<ul> <li>1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.</li> <li>2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.</li> <li>3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND</li> </ul>		
	THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER. 4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE. 3" 5. USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE		
	5. USE 3 OVERLAPS AND STAKE AT 5 INTERVALS ALONG THE SEAMS. 6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.		
	EROSION CONTROL MATTING TO BE USED: BioD-MAT 70		

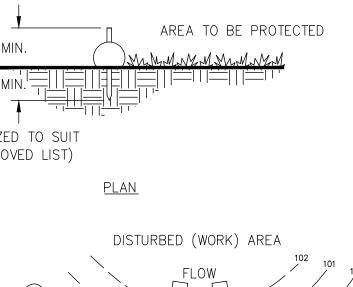
### e 6-5.1. Fertilizer Requirements

2	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE				
nce	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 1/2/				
nce	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/ 				
nce	10-10-10 10-10-10 10-10-10	1300 lbs./ac. 3/ 1300 lbs./ac. 3/ 1100 lbs./ac.					
	20-10-5	one 21-gram pellet per seedling placed in the closing hole	_				
nce	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	_				
	10-10-10	500 lbs./ac.	30 lbs./ac. 5/				
nce	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/6/ 50-100 lbs./ac. 2/ 30 lbs./ac.				
nce	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50 lbs./ac./6/				

# ND SEDIMENT CONTROL

COMPOST FILTER SOCK

<u>CROSS-SECTION</u>





AREA TO BE PROTECTED

# GEOR ✔ 50 **UNIFORM COD** FOR SOIL EROSION AND SEDI GEORGIA SOIL AND WATER CO

# STRUCTURAL PRACTICES

4

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION				
Cd	CHECKDAM		J	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.				
Ch	CHANNEL STABILIZATION		TT	Improving, constructing or stabilizing an open channel, existing stream, or ditch.				
Co	CONSTRUCTION EXIT		(LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.				
Cr	CONSTRUCTION ROAD STABILIZATION		C.	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on—site vehicle transportation routes.				
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.				
Di	DIVERSION	· ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.				
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy—duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.				
Dn2	PERMANENT DOWNDRAIN STRUCTURE	The second secon	Dn2 (LABEL)	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.				
Fr	FILTER RING	I		A temporary stone barrier constructed at storm drain inlets and pond outlets.				
Ga	GABION		J.	Rock filter baskets which are hand—placed into position forming soil stabilizing structures.				
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.				
Lv	LE VEL SPREADER		Ę	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.				
Rd	ROCK FILTER DAM		J	A permanent or temporary stone filter dam installed across small streams or drainageways.				
Re	RETAINING WALL	· · · · · · · · · · · · · · · · · · ·	Ree	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.				
Rt	RETRO FITTING	<b>F</b>	(LABEL)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.				
(Sd1)	SEDIMENT BARRIER		(INDICATE TYPE)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.				
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.				
Sd3	TEMPORARY SEDIMENT BASIN		Sd3	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.				
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.				
Sk	FLOATING SURFACE SKIMMER		Sk (LABEL)	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.				
Spb	SEEP BERM		(LABEL)	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.				



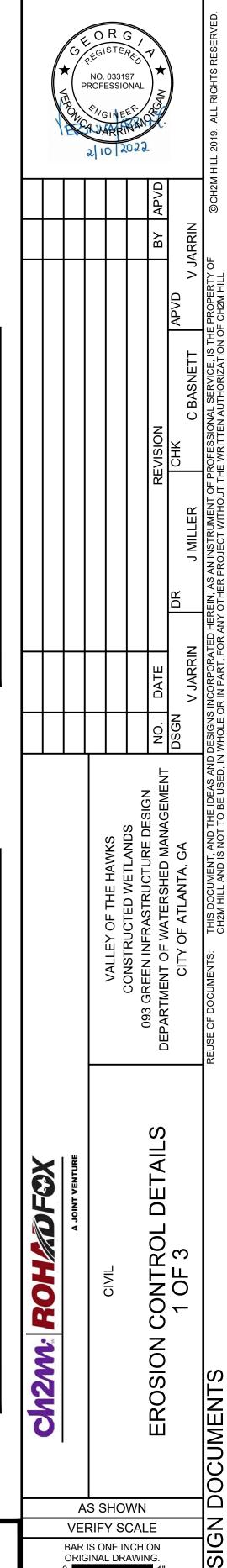
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IMENT CONTROL PRACTICES
ONSERVATION COMMISSION

# STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING		Gr Line	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION		(ST)	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		HSUH	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN		To	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Тр	TOPSOILING		(SHOW STRIPING AND STORAGE AREAS)	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr		$\bigcirc$		To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE		<u>++</u> )	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

# **VEGETATIVE PRACTICES**

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		J Bf (ABEL)	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	JEJESEE & & JEJESE	Cs	Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	11/1/2 C	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
FI-Co	FLOCCULANTS AND COAGULANTS		FI-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Тас	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.



GSWCC

Georgia Soil and Water Conservation Commission

Christopher S. Hamblen Level II Certified Design Professional

Certification Number: <u>000069253</u> Expires: <u>08/21/2022</u> Issued: <u>08/20/2013</u>



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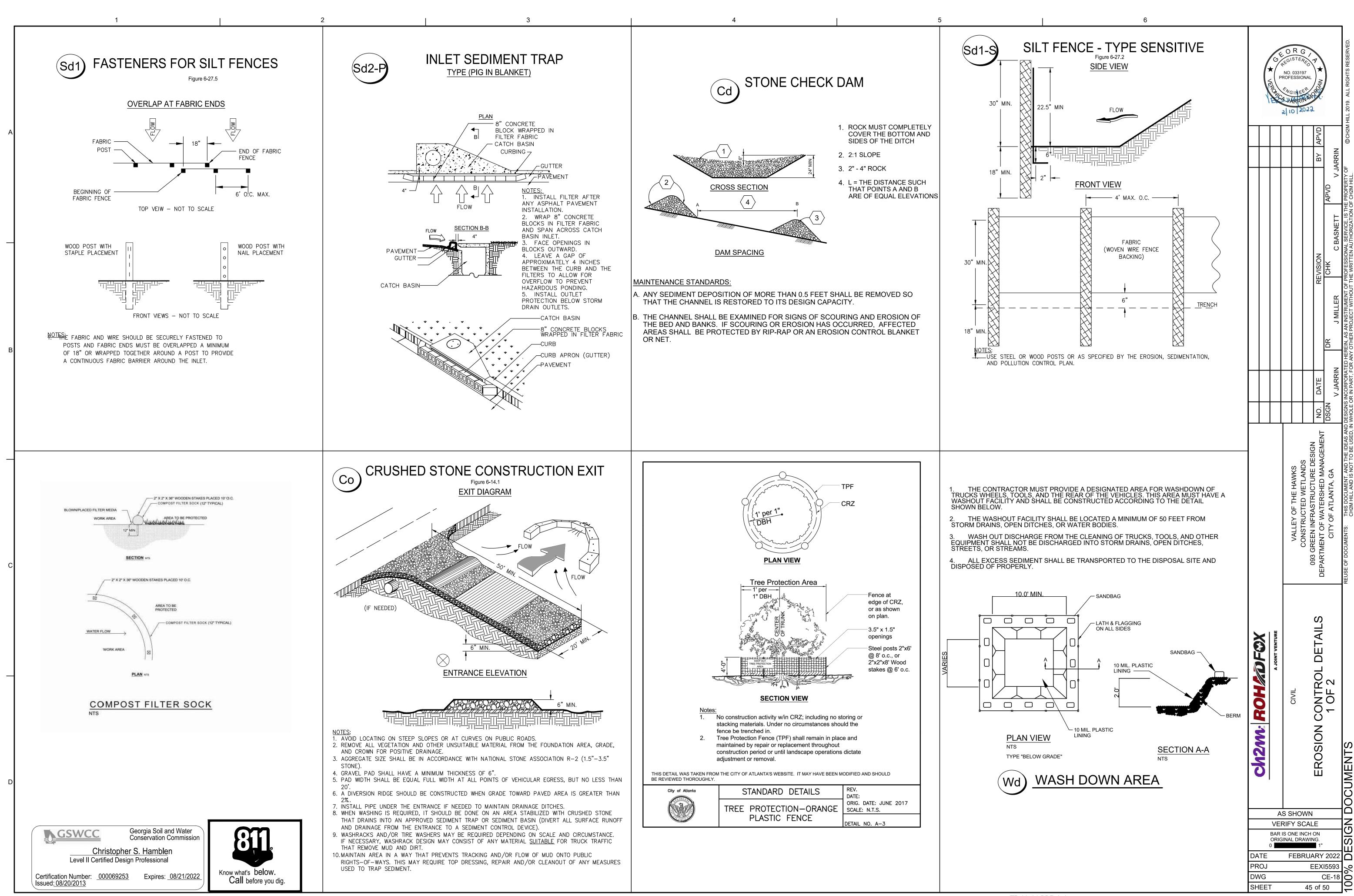
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	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST STAND ALONE CONSTRUCTION PROJECTS	
	SWCD: FULTON COUNTY - REGION 1	
	Project Name: Valley of the Hawks Constructed Wetland Address: City/County: <u>ATLANTA/FULTON</u> Date on Plans: <u>JULY 2021</u>	
	Name & email of person filling out checklist: <u>KIT HAMBLEN KIT.HAMBLEN@JACOBS.COM</u>	
	Plan Included TO BE SHOWN ON ES&PC PLAN	
А	Page # Y/N CE-19 Y 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission	
	as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)	
	ALL CE SERIES Y 2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)	
	N/A N 3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. *	t
	(A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)	
	CE-13 Y 4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.	
	CE-13 Y 5 Provide the name, address, email address, and phone number of primary permittee. CE-13 Y 6 Note total and disturbed acreages of the project or phase under construction.	
	CE-13 Y 7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.	
	ALL CE SERIES       Y       8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions         CE-13       Y       9 Description of the nature of construction activity and existing site conditions.	3.
В	CE-13 Y 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.	
D	CE-13 Y 11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes,	
	residential areas, wetlands, marshlands, etc. which may be affected.	
	CE-13 Y 12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on <b>Part IV page 19</b> of the permit	
	CE-13 Y 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on <b>Part IV page 19</b> of the p	
	CE-13 Y 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with <b>Part IV.A.5 page 25</b> of the permit. *	th
	CE-10 Y 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."	
	CE-13 Y 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.	
	CE-13 Y 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on	
	BMPs with a hydraulic component must be certified by the design professional." *	
С	CE-13 Y 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *	
	CE-13 Y 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."	
	CE-13 Y 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."	
	CE-13 Y 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."	
	N/A N 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *	
	N/A N 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *	
	CE-15 Y 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout	
	of the drum at the construction site is prohibited. *	
D	CE-15 Y 25 Provide BMPs for the remediation of all petroleum spills and leaks.	
	CE-15 Y 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *	
	CE-15 Y 27 Description of practices to provide cover for building materials and building products on site. *	
	CE-15 Y 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *	
	CE-13 Y 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).	
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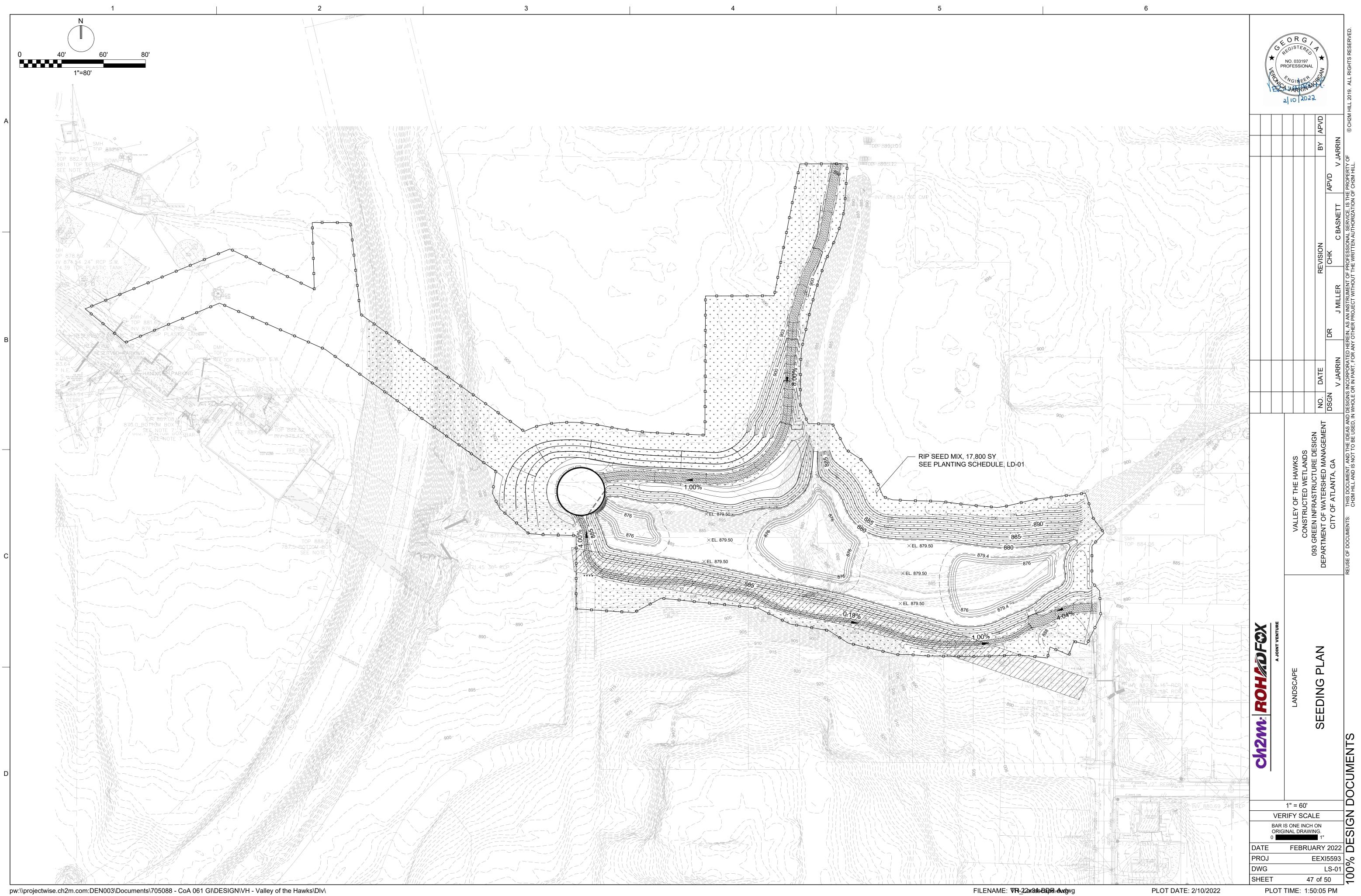
	3		4			5	
	CE-14 Y	30 Provide complete require	ments of Inspections and record	l keening by the primary pe	rmittee *		
	CE-14 Y	=	ments of Sampling Frequency a				
	CE-14 Y		or Retention of Records as per				
	CE-14 Y	╡	ethods to be used to collect and		each location. *		
<u>N</u>	CE-14 Y	34 Appendix B rationale for I	NTU values at all outfall samplin	g points where applicable.	*		
	CE-01 to			4 - foo - and - all - all - a - a - a - b	a dha a ta ƙa wala ta la		
mission	CE-12 Y	storm water is discharged	ations, perennial and intermitten 1. *	tstreams and other water b	odies into Which		
	CE-15 Y	-	te controls and measures that w	vill be implemented at the co	nstruction site including:		
	<b>.</b>		e requirements and perimeter co				
fessional.			s. For construction sites where te grading and drainage BMPs	-	•		
will not be		all of the BMPs into a sing			· ·		
ation from	CE-01 to CE-12 Y	37 Graphic scale and North	arrow.				
me, the Plan must	CE-01 to	1					
*	CE-12 Y	38 Existing and proposed co Map Scale	ntour lines with contour lines dr. Ground Slope	awn at an interval in accord Contour Intervals, ft	ance with the following: <b>]</b>		
, llution controls.		1 inch = 100ft or	Flat 0 - 2%	0.5 or 1	1		
		larger scale	Rolling 2 - 8%	1 or 2			
		20 Lice of atternative PMPs v	Steep 8% + vhose performance has been d	2,5 or 10			
imal degrees.	N/A N		ertified by a Design Professiona				
ested the revisions.			Commission). Please refer to th	e Alternative BMP Guidanc	e Document found at		
		www.gaswcc.georgia.go					
ase, if necessary.	N/A N		r application to the Equivalent B ontrol in Georgia 2016 Edition.		Dendix A-2 of the Manual		
es,	CE-01 to	7	-		<i>.</i>		
	СЕ-12 Ү		ble 25-foot or 50-foot undisturbe ocal Issuing Authority. Clearly r	-	·		
ent of the	CE-13 Y	-	ands and all state waters locate				
for an appropriate	CE-15 Y	43 Delineation and acreage	of contributing drainage basins	on the project site.			
<b>/ page 19</b> of the permit *	FEASIBILITY						
t the installation of the	REPORT Y	44 Provide hydrology study	and maps of drainage basins fo	r both the pre- and post-de	veloped conditions.		
	HYDROLOGIC MODELLING Y	45. An estimate of the runoff c	oefficient or peak discharge flow	, of the site prior to and after	construction activities are		
		completed.					
coastal	CE-01 to CE-12 Y	46. Storm-drain nine and wei	r velocities with appropriate out	et protection to accommodat	e discharges without		
ecessary			e all storm water discharge poir				
ed.	CE-01 to CE-04 Y	47 Soil series for the projects	site and their delineation				
effect on	CE-01 to	1					
	CE-12 Y	48 The limits of disturbance for					
otas	CE-13 Y		cubic yards of sediment storage and/or excavated inlet sedimer				
_		•	n place prior to and during all la	•	0		
on of			A written justification explaining t inable must be included in the P	·			
ation of the			vided. A written justification as to		-		
ol measures		·	ets from the Manual included for		•		
h			al to obtain the required sedime impoundments, permittees are	<b>U</b>	•••		
be			feasible. If outlet structures that		face are not feasible,		
l linear mile	CE-01 to	a written justification expla	ining this decision must be inclu	ded in the Plan.			
st comply	CE-12 Y		nent Practices that are consister	Ū			
d for those		Erosion and Sediment Co legend.	ntrol in Georgia. Use uniform c	cooling symbols from the Mai	nual, Chapter 6, with		
entified in	CE-01 to	7		offootions much at the initial	m most the sould be the		
specific	CE-12 Y		s for all structural practices. Spe osion and Sediment Control in G		m, meet the guidelines set		
	LS-01, LP-	7					
Washout	01, LP-02 Y	_	noting all temporary and perma er, lime and mulching rates. Ve	-	-		
			ill take place and for the approp				
in storm			roject that is less than 1 acre an		elopment		
		but within 200 ft of a perennial	stream, the * checklist items wo	uld be N/A.		071	
					Effective January 1, 2	UZI	

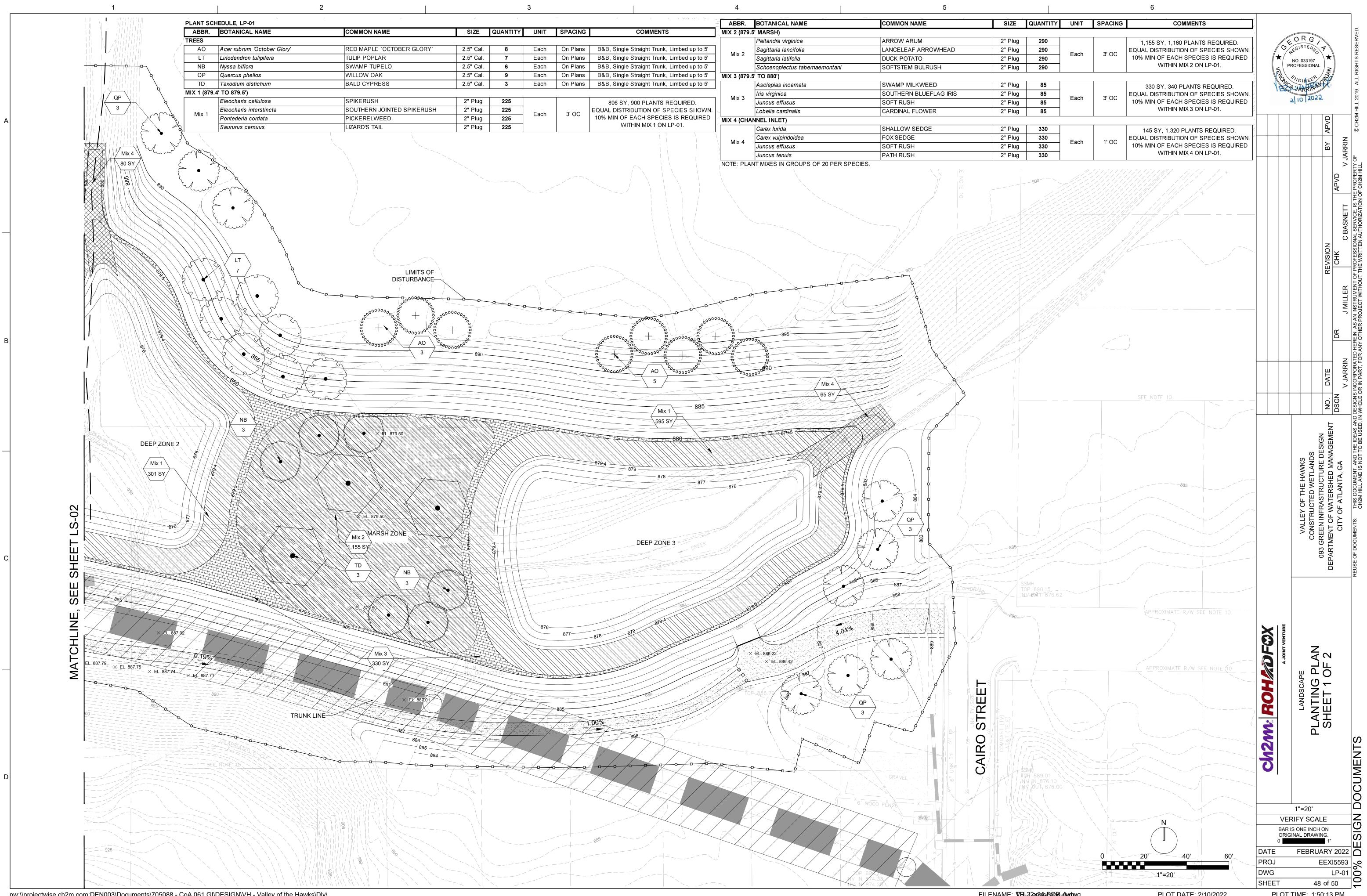
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1, 2021	Georgia Soil and Water Conservation Commission         Christopher S. Hamblen         Level II Certified Design Professional         Certification Number:       000069253         Expires:       08/21/2022	Know what's below. Call before you dig.	В	/ERIFY S AR IS ONE I RIGINAL DF	CALE INCH ON RAWING. 1" BRUARY 2 EEXI5	593 -19

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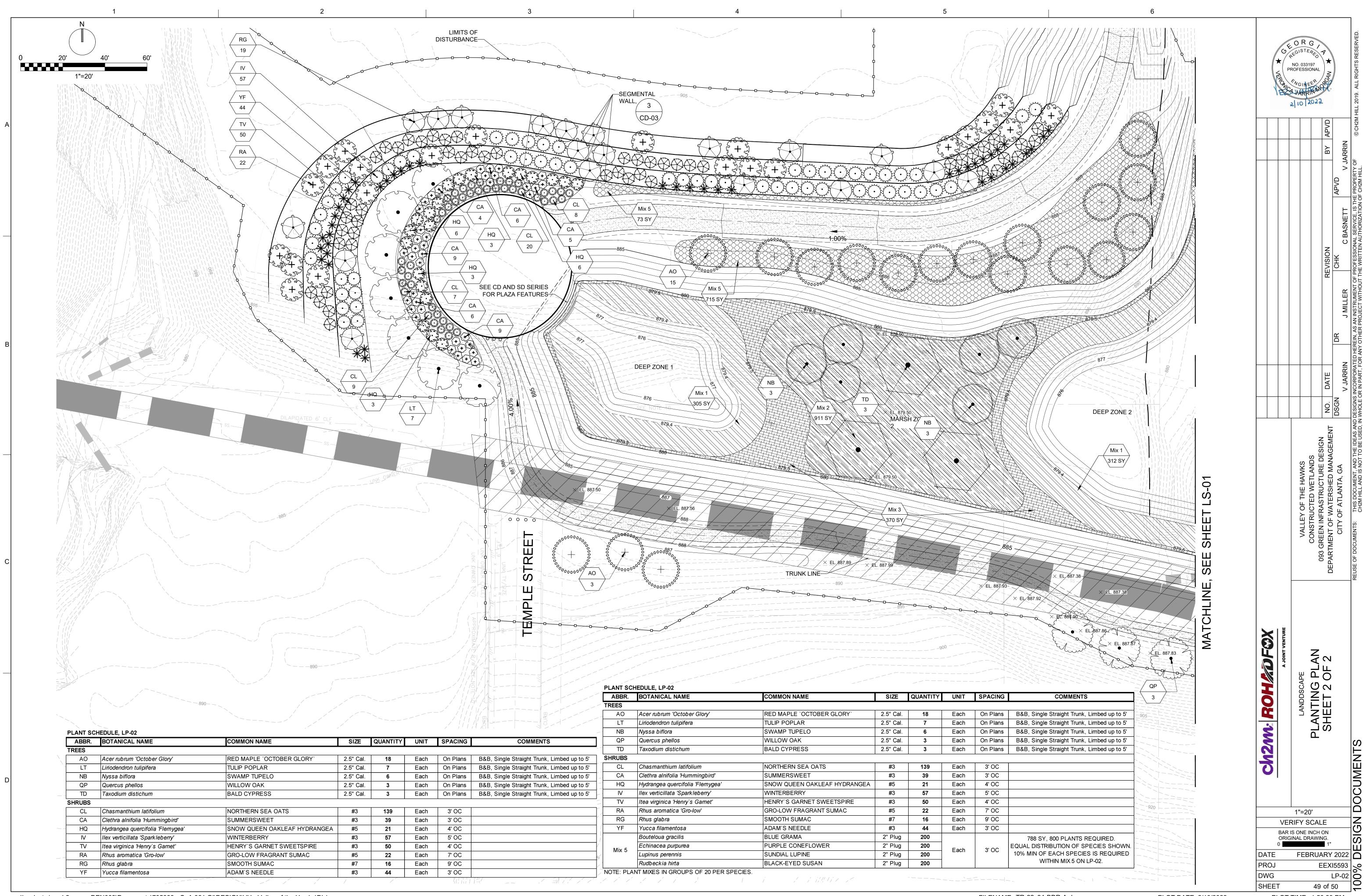




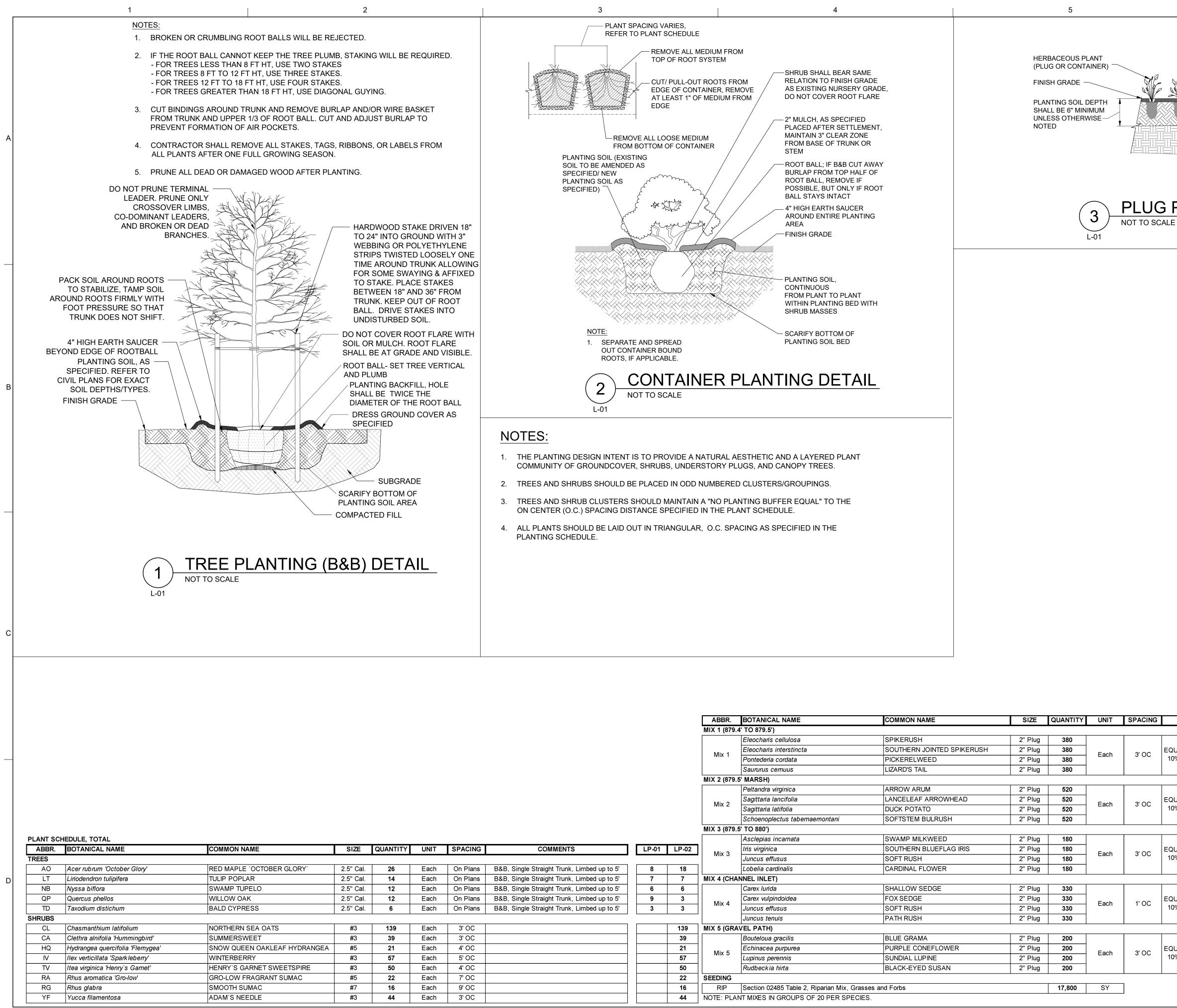
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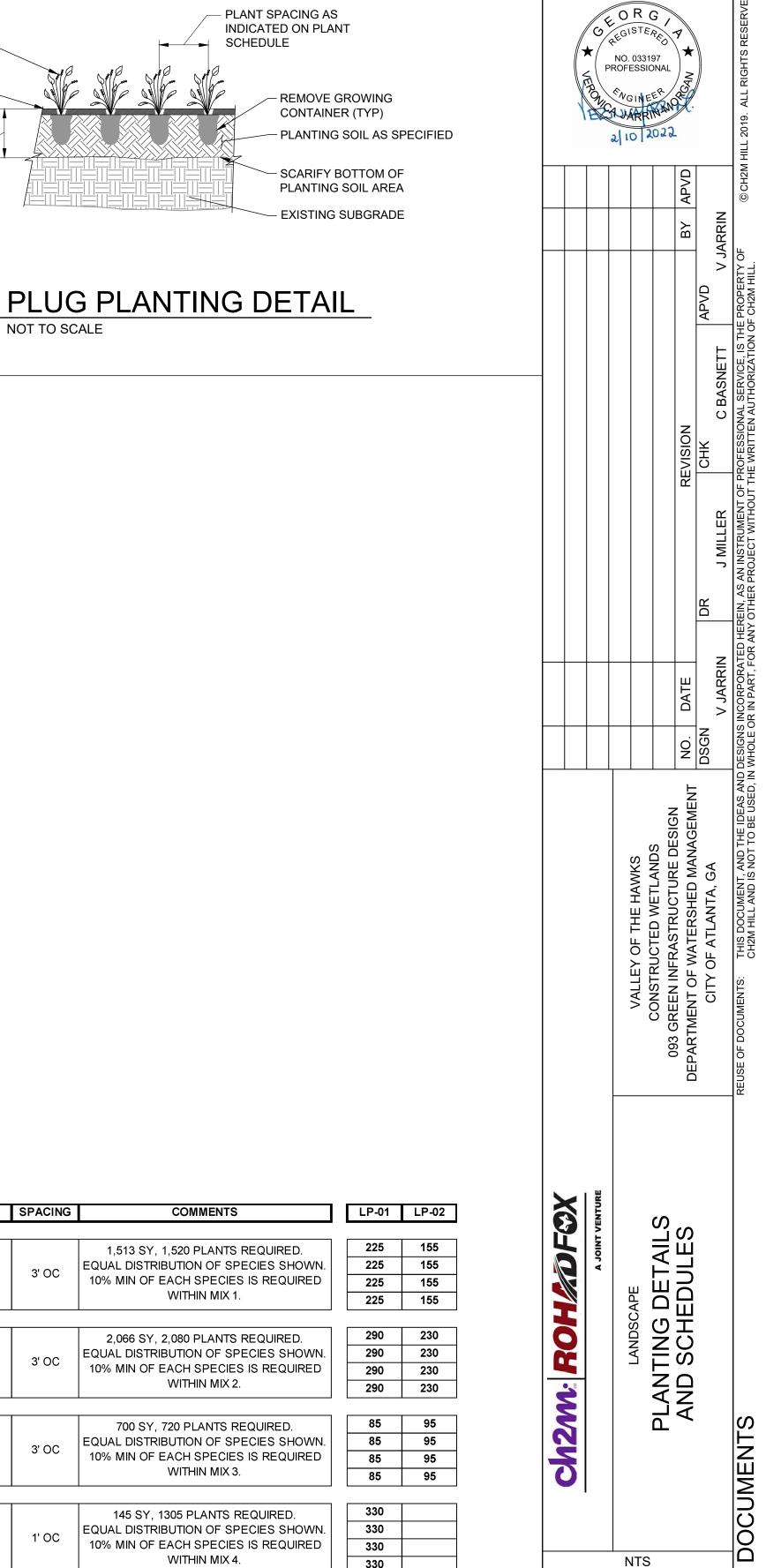
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			ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	UNIT	SPACING	COMMENTS	LP-01	LP-02
			MIX 1 (879.	.4 ['] TO 879.5')		-						
				Eleocharis cellulosa	SPIKERUSH	2" Plug	380			1,513 SY, 1,520 PLANTS REQUIRED.	225	155
			Mbc 4	Eleocharis interstincta	SOUTHERN JOINTED SPIKERUSH	2" Plug	380	Teeb	21.00	EQUAL DISTRIBUTION OF SPECIES SHOWN.	225	155
			IVIIX 1	Pontederia cordata	PICKERELWEED	2" Plug	380	Each	3' OC	10% MIN OF EACH SPECIES IS REQUIRED	225	155
				Saururus cemuus	LIZARD'S TAIL	2" Plug	380			WITHIN MIX 1.	225	155
			MIX 1 (879.4 Mix 1 Mix 1 MIX 2 (879.5 Mix 2 MIX 3 (879.5 Mix 3 MIX 4 (CHAI Mix 4 MIX 5 (GRA) Mix 5 SEEDING RIP	.5' MARSH)			1			<u> </u>		
				Peltandra virginica	ARROW ARUM	2" Plug	520			2,066 SY, 2,080 PLANTS REQUIRED.	290	230
				Sagittaria lancifolia	LANCELEAF ARROWHEAD	2" Plug	520	<b>-</b>		EQUAL DISTRIBUTION OF SPECIES SHOWN.	290	230
			MIX 2	Sagittaria latifolia	DUCK POTATO	2" Plug	520	Each	3' OC	10% MIN OF EACH SPECIES IS REQUIRED	290	230
				Schoenoplectus tabernaemontani	SOFTSTEM BULRUSH	2" Plug	520			WITHIN MIX 2.	290	230
			MIX 3 (879.	.5' TO 880')			1		1			
				Asclepias incarnata	SWAMP MILKWEED	2" Plug	180			700 SY, 720 PLANTS REQUIRED.	85	95
COMMENTS	LP-01	LP-02		Iris virginica	SOUTHERN BLUEFLAG IRIS	2" Plug	180			EQUAL DISTRIBUTION OF SPECIES SHOWN.	85	95
			MIX 3	Juncus effusus	SOFT RUSH	2" Plug	180	Each	3' OC	10% MIN OF EACH SPECIES IS REQUIRED	85	95
traight Trunk, Limbed up to 5'	8	18		Lobelia cardinalis	CARDINAL FLOWER	2" Plug	180			WITHIN MIX 3.	85	95
raight Trunk, Limbed up to 5'	7	7	MIX 4 (CHA	ANNEL INLET)			1 1			1		
traight Trunk, Limbed up to 5'	6	6		Carex lurida	SHALLOW SEDGE	2" Plug	330			145 SY, 1305 PLANTS REQUIRED.	330	
traight Trunk, Limbed up to 5'	9	3	MIX 1 (879. Mix 1 MIX 2 (879. Mix 2 MIX 3 (879. Mix 3 MIX 4 (CHA Mix 4 MIX 5 (GRA Mix 5 SEEDING	Carex vulpindoidea	FOX SEDGE	2" Plug	330		11.00	EQUAL DISTRIBUTION OF SPECIES SHOWN.	330	
COMMENTS       L         Straight Trunk, Limbed up to 5'       Straight Trunk, Limbed up to 5'         Straight Trunk, Limbed up to 5'       Straight Trunk, Limbed up to 5'         Straight Trunk, Limbed up to 5'       Straight Trunk, Limbed up to 5'         Straight Trunk, Limbed up to 5'       Straight Trunk, Limbed up to 5'	3	3		Juncus effusus	SOFT RUSH	2" Plug	330	Each	1' OC	10% MIN OF EACH SPECIES IS REQUIRED	330	
	L			Juncus tenuis	PATH RUSH	2" Plug	330			WITHIN MIX 4.	330	
		139	MIX 5 (GRA	AVEL PATH)			-		Į	<u> </u>		
		39		Bouteloua gracilis	BLUE GRAMA	2" Plug	200			788 SY, 800 PLANTS REQUIRED.		200
		21		Echinacea purpurea	PURPLE CONEFLOWER	2" Plug	200	<b>F</b> aab		EQUAL DISTRIBUTION OF SPECIES SHOWN.		200
		57		Lupinus perennis	SUNDIAL LUPINE	2" Plug	200	Each	3' OC	10% MIN OF EACH SPECIES IS REQUIRED		200
		50		Rudbeckia hirta	BLACK-EYED SUSAN	2" Plug	200			WITHIN MIX 5.		200
		22	SEEDING				-I I		1	1]	L	1
		16	RIP	Section 02485 Table 2, Riparian Mix, Gras	sses and Forbs		17,800	SY	]			
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PLOT TIME: 1:50:30 PM

VERIFY SCALE

BAR IS ONE INCH ON

ORIGINAL DRAWING.

FEBRUARY 2022

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