PUBLIC WORKS COMMISSION OF THE CITY OF FAYETTEVILLE, NORTH CAROLINA **DEMOLITION AND DECOMMISSIONING** OF FORMER WTP AT GLENVILLE LAKE DAM (CUMBE-038)





FWC	FAYETTEVILLE PUBLIC WORKS COMMISSION							
Denolition and Decommissioning of Former WTP A+ Glenville Lake DAM (cumbe -038) MORIGINAL TAPS ONLY RECORD DRAWING MODIFICATION								
WO # WT: N/A	WO#ST: N/A							
WO # WD: N/A	WO # SD: N/A							
ENG TECH: MEJ	PERMIT #: N/A							
REVIEWED BY: MMM	PERMIT #: N/A							
DATE: 2 18 2022	DWG #: DW-15608							
WREP #:	# OF SHEETS: 34							





LOCATION PLAN

Camp Dresser McKee & Smith 5400 Glenwood Avenue, Suite 400 Raleigh, NC 27612 Tel: (919) 325-3500 North Carolina State License Number: f-0412 CDM Project No. 6384-231131

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6384-2311 DW-15608

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REV.

DATE DRWN CHKD

ABBREVIATIONS

LEGEND

# & Ø	NUMBER AND DIAMETER			EXISTING BUILDING/STRI	JCTURE	
APPROX BLDG	APPROXIMATE BUILDING		106			
C&G CFS	CURB AND GUTTER CUBIC FEET PER SECOND					
DET	DETAIL DUCTILE IRON		110	PROPOSED INDEX CONT	JUK	
DIA DIM	DIAMETER DIMENSION		— — 112 — —	EXISTING INTERMEDIATE	CONTOUR	
DISCH DWG FA	DISCHARGE DRAWING		<u> </u>	EXISTING INDEX CONTOU	IR	
ELEV ELEC	ELEVATION ELECTRIC		CP-1	EXISTING CONTROL POIN	Т	
EOP EQUIP	EDGE OF PAVING EQUIPMENT		вм	EXISTING BENCHMARK		
ESMI EW EXIST	EASEMENT EACH WAY EXISTING		P-301 ()	EXISTING PIEZOMETER		
EXP EXT	EXPANSION EXTERIOR/EXTENDED			ACCESS ROAD		
FES FFE	FLARED END SECTION FINISHED FLOOR ELEVATION		~~~~	SHEETING		
FIN FLG FLR	FINISH (ED) FLANGE FLOOR			EMBANKMENT SLOPES		
FLEX	FLEXIBLE FOOT/FEET			HORIZONTAL & VERTICAL	CONTROL	
FTG GN	FOOTÍNG GROUND		22	SANITARY SEWER		
GPD GPM GR	GALLONS PER DAY GALLONS PER MINUTE GRADE		SFSFSFSF	SILT FENCE		
GV HDPE	GATE VALVE HIGH DENSITY POLYETHYLEI	NE	SD	STORM DRAIN		
HOR ID	HORIZONTAL INSIDE DIAMETER		\/	WATER LINE		
IE IN INV	INVERT ELEVATION INCH (ES) INVERT		w			
JT LB(S)	JOINT POUND (S)		OHE	OVERHEAD UTILITIES	_	
LG MATL			UE	UNDERGROUND ELECTRIC	2	
MFD MFG MFR /MFCR	MANUFACTURED MANUFACTURING MANUFACTURER		XX	FENCELINE		
MGD MH	MANUTACTORER MILLION GALLONS PER DAY MANHOLE		~~~~~	VEGETATION LINE		
MIN MISC	MINIMUM MISCELLANEOUS		LOD	LIMITS OF DISTURBANCE		
NEC NIC	METAL NATIONAL ELECTRIC CODE NOT IN CONTRACT			PROPOSED FILTER DRAIN	٨	
NOM NTS	NOMINAL NOT TO SCALE		\bigcirc	PROPOSED UNDERDRAIN	MONITORING/C	LEANOUT MANHOLE
	ON CENTER OUTSIDE DIAMETER OVERHEAD LITUITIES		4	TEST HOLE		
OPNG PERF	OPENING PERFORATED		TH-1			
PL PP	PROPERTY LINE POWER POLE					
PS PVC ROW	POMP STATION POLYVINYL CHLORIDE RIGHT OF WAY					
RCP RD	REINFORCED CONCRETE PIP	ΡE				
REINF REQ'D RW	REINFORCING REQUIRED RAW WATER					
SCH SD	SCHEDULE STORM DRAIN					\bigwedge
SEC SF	SECTION SILT FENCE					C-12
SHI S/W	SHEET SIDEWALK SOLLARE					
SS SSMH	SQUARE SANITARY SEWER SANITARY SEWER MANHOLE					
STA STD/STND	STATION STANDARD					USED FOR SH CUTS ONLY
IC THK TSP	THICK TOP OF SHEETPILE	<u>AWING, S</u>	SECTION AND	DETAIL TITLES		
TW TYP	TOP OF WALL TYPICAL	SUBTITL	E OR DESCRIPTION	(AS REQ'D)		
UE UNK	UNDERGROUND ELECTRIC UNKNOWN		<u> </u>	_		
W W/ WI	WIDTH WITH WATER LEVEL		1" = 20' (VARIES)			
WTP	WATER TREATMENT PLANT					
				CECTION NUMBER		DETAIL LETTER
		SECTION $/8^{"} = 1^{'}-0^{"}$	$-\left(\begin{array}{c} \mathbf{I} \\ \mathbf{S}-6 \end{array}\right)$			
		,		CUT IS TAKEN *		
						IS LOCATED
		DETAIL	A	DETAIL LETTER		
		/4" = 1'-0"	A-3			
	* IF SECT	ION, DETAIL OR	DIAGRAM IS DRAWN ON	THE SAME SHEET THAT IT IS		
	TAKEN FR SECTION	OM, THE SHEET	NUMBER IS REPLACED	WITH A HYPHEN. IF THE THE SHEET NUMBER SHOWN		
	INDICATES	IIIE FIRSI SHEE	LI THE SECTION IS TAK			
				DESIGNED BY:	R. NAGEL	CDM
				DRAWN BY:	R. BOGGS D. NEAMTU	Smith
				CROSS CHK'D BY:	R. NAGEL	5400 Glenwood Avenue,

REMARKS

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S	PROPOSED SANITARY SEWER MANHOLE
S	EXISTING SANITARY SEWER MANHOLE
\bigcirc	EXISTING STORM DRAIN MANHOLE
	EXISTING CURB INLET
	EXISTING DROP INLET
⊞	EXISTING YARD INLET
M	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
٥	EXISTING WATER METER
°P•	EXISTING POWER POLE
¢	EXISTING AREA LIGHT
E®	EXISTING ELECTRIC BOX
•	EXISTING BOLLARD
ME	EXISTING MAILBOX
Ī	EXISTING TELEPHONE PEDESTAL
6	EXISTING SHRUBS AND BUSHES
	EXISTING DECIDUOUS TREE
Ķ	EXISTING CONIFEROUS TREE
121.6'	EXISTING SPOT ELEVATION

GENERAL NOTES

ABBREVIATIONS ON THIS SHEET APPLY TO "G" AND "C" SHEETS. WHERE NOTED ,"RIGHT" AND "LEFT" CONVENTION SHALL BE CONSIDERED AS LOOKING DOWNSTREAM FROM THE SPILLWAY/DAM.

<u>UTILITIES</u>

OR FOR COMPLETENESS OF UTILITY INFORMATION.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS. THE CONTRACTOR SHALL HOLD THE CITY HARMLESS FOR ANY THIRD-PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS. • FOR UTILITY LOCATIONS CALL NORTH CAROLINA 811 @ 1-800-632-4949.

- FOR LOCATION OF UTILITIES NOT MEMBERS OF NORTH CAROLINA 811, CONTACT UTILITY OWNER.

GRASSED SURFACE RESTORATION:

ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION ARE TO BE SODDED PER THE SPECIFICATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.

EROSION AND SEDIMENTATION CONTROL:

THE CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS AND PREVENT ANY STANDING WATER DUE TO CONSTRUCTION. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE DRAWINGS (C-9 AND C-10) AND SPECIFICATIONS. ALL REPORTING, INSPECTING, AND RECORD KEEPING IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION EQUIPMENT

CONSTRUCTION EQUIPMENT SHALL BE OF A TYPE AND SIZE THAT WILL MINIMIZE DAMAGE TO SURROUNDING AREAS, PAVEMENT, TREES, UTILITIES, AND OTHER FEATURES DURING CONSTRUCTION.

TREES, SHRUBS, AND HEDGES

THE CONTRACTOR SHALL REMOVE ALL TREES, SHRUBS, AND ROOT BALLS FROM THE DAM AND ABUTMENTS IN THE AREA OF REGRADING ONLY. THE CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS OUTSIDE OF CUT/FILL LINES, IN ADDITION TO THOSE THAT RECEIVE TREE/SHRUB PROTECTION BARRIERS. THE CONTRACTOR IS ALSO TO SAVE ALL OTHER EXISTING TREES AND SHRUBS WHERE POSSIBLE. WHEN ROOT PRUNING IS NECESSARY, CUT ROOTS CLEANLY USING A DISC TRENCHER AND IMMEDIATELY COVER ALL ROOT CUT SURFACES, LARGER THAN TWO INCHES IN DIAMETER, WITH TREE WOUND DRESSING. USE PLYWOOD FORMS WHEN TREE ROOTS ARE ADJACENT TO PROPOSED CURB & GUTTER OR SIDEWALK.

CONSTRUCTION LIMITS

PROJECT LIMITS ARE DEFINED ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL LIMIT ALL DISTURBANCE TO WITHIN THE CONSTRUCTION LIMITS.

CONSTRUCTION ACCESS

PERMITS AND BONDS WILL BE REQUIRED FOR THE USE OF AMES STREET AND FILTER PLANT DRIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PAYING FOR ALL PERMITS/BONDS FOR AMES STREET AND FILTER PLANT DRIVE WITH THE CITY OF FAYETTEVILLE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING AND PAYING FOR THE PERMITS/BONDS ON ANY OTHER ROADS ALONG CONSTRUCTION ROUTE, IF REQUIRED.

CONSTRUCTION ACCESS FOR ALL VEHICLES LARGER THAN 10,000 LBS WILL BE FROM AMES STREET. CONTRACTOR SHALL INSTALL GATE AND CONSTUCTION ACCESS. CONTRACTOR SHALL SHALL USE FLAGMEN ON AMES STREET FOR TRAFFIC ENTERING AND LEAVING THE SITE. CONTRACTOR SHALL SECURE GATE AT THE END OF EACH WORK DAY.

SECTION CUT SYMBOLS

DETAIL CALL OUT SYMBOLS

DETAIL LETTER LEADER LINE (ARROWHEAD OPTIONAL) SHEET WHERE DETAIL

WHERE A NOTE IS REQUIRED FOR CLARITY, A/C-12 FORMAT IS USED IN THE NOTE INSTEAD OF BUBBLE. IF MULTIPLE DETAILS REFER TO THE SAME AREA OF THE DRAWING, THE BUBBLES ARE STACKED SIDE BY SIDE.

FEBRUARY 2022

PUBLIC WORKS COMMISSION OF FAYETTEVILLE DEMOLITION AND DECOMMISSIONING OF FORMER WTP AT GLENVILLE LAKE DAM (CUMBE-038) FAYETTEVILLE, NC

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UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. THE ENGINEER WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, AND DEPTHS,

PROJECT NO. 6384-2311 FILE NAME: GOO1GNFG.DW SHEET NO. G-1

GENERAL NOTES

CONSTRUCTION SEQUENCE

- 1. NOTIFY THE PERMITTING AGENCY (DEMLR, FAYETTEVILLE REGIONAL OFFICE) AT 910-433-3300 AT LEAST 48 HOURS PRIOR TO ANY LAND-DISTURBING ACTIVITIES AND HOLD PRE-CONSTRUCTION CONFERENCE PRIOR TO STARTING CONSTRUCTION.
- 2. OBTAIN ALL PERMITS NEEDED FOR THE WORK. EROSION AND SEDIMENTATION CONTROL PERMIT AND STORMWATER NPDES CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE LAND-DISTURBING ACTIVITIES OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (ENOI) FORM AT DEQ.NC.GOV/NCGO1. PLEASE NOTE, THE ENOI MAY BE FILLED OUT ONLY AFTER THE EROSION AND SEDIMENTATION CONTROL PLAN HAS BEEN APPROVED.
- 3. KEEP A COPY OF THE EROSION AND SEDIMENTATION CONTROL PERMIT, APPROVED PLANS, AND THE COC AT THE SITE IN AN ACCESSIBLE PERMITS BOX THROUGHOUT THE CONSTRUCTION DURATION.
- 4. IDENTIFY SITE ACCESS, LIMITS OF DISTURBANCE (LOD), AND STOCKPILE AREA WITHIN THE LOD.
- 5. MAINTAIN RECORDS ON SITE USING STORMWATER INSPECTION MONITORING FORMS TITLED "INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCG010000 AND SELF-INSPECTION RECORDS FOR LAND DISTURBING ACTIVITIES PER G.S. 113A-54.1" FROM DEMLR.
- 6. INSTALL PHASE ONE EROSION AND SEDIMENTATION CONTROL DEVICES. LOWER LAKE LEVELS TO EL. 108 OR LOWER AND MAINTAIN BY UTILIZING PRIMARY BOTTOM DRAIN (30" SQUARE GATE) IN THE PRIMARY SPILLWAY STRUCTURE. DRAWDOWN IN THE LAKE SHALL NOT EXCEED 1 FOOT PER DAY AT ANY TIME DURING CONSTRUCTION.
- INSTALL MONITORING POINTS AND GEOTECHNICAL INSTALLATION AS SPECIFIED TO MONITOR THE WALL AND DAM DURING DEMOLITION ACTIVITIES. EXISTING PIEZOMETERS (P-301 AND P-302) SHALL ALSO BE MONITORED DURING CONSTRUCTION.
- 8. DE-ENERGIZE EXISTING ELECTRICAL INFRASTRUCTURE FOR WETWELL AND BEGIN DEMOLITION OF FORMER WATER TREATMENT PLANT BUILDING. BUILDING SUPERSTRUCTURE SHALL BE COMPLETELY REMOVED INCLUDING, BUT NOT LIMITED TO, EXTERIOR CLADDING, ROOFING, WOOD FRAMING, INTERIOR FINISHES AND COMPONENTS. CONCRETE SHALL NOT BE CUT, OR OTHERWISE MODIFIED, UNTIL TEMPORARY BRACING HAS BEEN INSTALLED, WHERE REQUIRED.
- 9. REMOVE INTERIOR PIPE COMPONENTS FROM THE EXISTING BELOW-GRADE PIPE GALLERY. CUT, FILL WITH FLOWABLE FILL, AND CAP ANY PIPES WHICH CONTINUE THROUGH WALLS AND ARE INACCESSIBLE FOR REMOVAL. IF TOP SLAB IS DESIRED TO BE REMOVED TO FACILITATE REMOVING THE PIPE FROM THE PIPE GALLERY TEMPORARILY SUPPORT THE EXISTING WALLS PRIOR TO SAWCUTTING AND REMOVING THE TOP SLAB.
- 10. FILL PIPE GALLERY AND EXISTING MAINTENANCE AREA WITH FLOWABLE FILL TO WITHIN 2-FEET OF FINISHED GRADE.
- 11. SAWCUT AND REMOVE ALL CONCRETE STRUCTURE WITHIN 2-FEET OF FINISHED GRADE. NO PORTION OF THE FORMER WATER TREATMENT PLANT SHOULD BE LEFT EXPOSED IN THE FINISHED WORK, EXCEPT THE EXISTING RAW WATER INTAKE WET WELL STRUCTURE AND INTAKE RETAINING WALLS, WHICH SHOULD BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION AND DEMOLITION ACTIVITIES.
- 12. CLEAN, FLUSH AND RESTORE STORMWATER PIPING BEHIND THE BARNS.
- 13. DEMOLISH AND REMOVE EXISTING STORMWATER PIPING. CONSTRUCT NEW STORMWATER SYSTEM. COMPLETE WITH THE EXCEPTION OF THE DRAIN PIPE AND GATE STRUCTURE UPSTREAM OF INLET-3. CONSTRUCTION SHOULD PROCEED FROM UPSTREAM TO DOWNSTREAM.
- 14. REMOVE SEDIMENT/DEBRIS MATERIALS FROM THE LAKE BED AREA IN FRONT OF INTAKE/DRAIN USING LONG-REACH EXCAVATOR OR SIMILAR. NOTE THAT EXISTING CONCRETE SLAB EXTENDS BETWEEN THE EXISTING WALLS IN THE LAKE. MATERIALS MAY BE REMOVED IN THE WET AND STOCKPILED ONSITE PRIOR TO BEING TRANSPORTED FOR PROPER DISPOSAL OFFSITE.
- 15. EMPLOY DEWATERING IN LAKE AREA DIRECTLY UPSTREAM OF THE INTAKE AND AUXILIARY BOTTOM DRAIN TO ALLOW TEMPORARY REMOVAL OF BOTTOM DRAIN SCREEN AND PLUGGING/PLATING OF DRAIN OPENING THROUGH EXISTING CONCRETE WALL. DEWATERING MAY CONSIST OF ONE OF THE FOLLOWING:

a. DIVERS SHALL ENTER THE LAKE AND REMOVE THE EXISTING 3-FOOT BY 4-FOOT SCREEN OVER THE BOTTOM DRAIN OPENING. USE PLATE OR PLUG TO COMPLETELY BLOCK DRAIN OPENING ON UPSTREAM SIDE OF CONCRETE WALL TO ALLOW REMOVAL OF EXISTING GATE AND OTHER DOWNSTREAM WORK TO PROCEED IN-THE-DRY.

b. DEWATER LAKE TO ELEVATION 103 AND PLACE SUPERSACKS WRAPPED IN GEOMEMBRANE OR EQUAL TO CONSTRUCT COFFERDAM AND ISOLATE THE INTAKE/BOTTOM DRAIN AREA. UPON COMPLETION OF COFFERDAM CONSTRUCTION TO ELEVATION 106, PUMP AND DEWATER THE WORK AREA. REMOVE THE EXISTING 3-FOOT BY 4-FOOT SCREEN OVER THE BOTTOM DRAIN OPENING. USE PLATE OR PLUG TO COMPLETELY BLOCK DRAIN OPENING ON UPSTREAM SIDE OF CONCRETE WALL TO ALLOW REMOVAL OF EXISTING GATE AND OTHER DOWNSTREAM WORK TO PROCEED IN-THE-DRY. COFFERDAM IS INTENDED TO PROVIDE A WORK AREA TO BLOCK/PLUG GATE OPENING AND WILL REMAIN IN PLACE TO FACILITATE REMOVAL OF THE BLOCK/PLUG AT END OF CONSTRUCTION.

IF COFFERDAM ALTERNATIVE IS SELECTED, DESIGN SHALL BE PREPARED BY A NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER AS SPECIFIED. REGARDLESS OF THE ALTERNATIVE SELECTED, LAKE LEVELS DURING THIS PERIOD SHALL BE MAINTAINED AT EL. 103 OR LOWER BY OPERATING THE BOTTOM DRAIN IN THE PRIMARY SPILLWAY AND PUMPING (AS NEEDED).

- 16. RELOCATE RAW WATER PIPING.
- 17. INSTALL PIPE, GATE STRUCTURE, AND FILTER DRAIN FROM THE WALL OPENING FOR THE AUXILIARY BOTTOM DRAIN TO THE CONNECTION POINT WITH INLET-3.
- 18. INSTALL VAULT AND PIPING FOR WETWELL DRAIN.
- 19. BACKFILL AROUND CONCRETE COLLAR INSIDE THE EXISTING GATE DISCHARGE AREA WITH FLOWABLE FILL AS SHOWN ON STRUCTURAL DRAWINGS.
- 20. PLACE AND COMPACT FILL AROUND WETWELL. COMPLETE RELOCATION OF ELECTRICAL CONDUIT, AND TRANSFORMER AND REGRADE AS INDICATED.
- 21. INSTALL PHASE TWO EROSION AND SEDIMENTATION CONTROL DEVICES.
- 22. REMOVE PLUG/COFFERDAM, REINSTALL 3-FOOT BY 4-FOOT SCREEN, AND ALLOW LAKE LEVELS TO BE RESTORED.
- 23. INSTALL FLOATING DEBRIS BARRIER.
- 24. INSTALL SOD ON ALL DISTURBED AREAS. PROVIDE PERMANENT STABILIZATION OF ALL GRASS AREAS AS IDENTIFIED ON SHEET C-10 IN ACCORDANCE WITH THE TIME FRAME GUIDELINES SPECIFIED IN NCG010000. ESTABLISH GROUND COVER WITHIN TIME FRAMES REQUIRED ON SHEET C-11.
- 25. SAWCUT, GRIND, AND REMOVE EXISTING ASPHALT PAVING.
- 26. INSTALL PROPOSED ASPHALT PAVING.
- 27. REMOVE STOCKPILE AREAS AND DISPOSE AT A PERMITTED FACILITY AND COMPLETE ALL MISCELLANEOUS WORK AND CLEAN-UP.
- 28. CONTACT DEMLR UPON PROJECT COMPLETION AND ESTABLISHMENT OF PERMANENT GROUND COVER FOR PROJECT CLOSEOUT. AFTER INSPECTION, SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (ENOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE ENOT HAS BEEN SUBMITTED.
- 29. REMOVE ALL EROSION AND SEDIMENTATION CONTROL DEVICES ONCE THE SITE IS STABILIZED.

					DESIGNED BY:	R. NAG
					DRAWN BY:	R. BOG
					SHEET CHK'D BY:_	D. NEAM
					CROSS CHK'D BY:	R. NAG
					APPROVED BY:	D. NEAN
REV. NO.	DATE	DRWN	СНКД	REMARKS	DATE:	FEBRUARY 2

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PUBLIC WORKS COMMISSION OF FAYETTEVILLE DEMOLITION AND DECOMMISSIONING OF FORMER WTP AT GLENVILLE LAKE DAM (CUMBE-038) FAYETTEVILLE, NC

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CONSTRUCTION SEQUENCE

PROJECT NO. 6384-23113 FILE NAME: GOO2CSNT.DW SHEET NO. G-2

FA062967

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ECD-4

THE STEEL BOLLARDS (TYP 9)

P-302

-6' X 6' GATE STR

/-INLET-3

0+00-/

 $imes^{56}$

-POWER POLE

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INLET-2

R. NAGEL R. BOGGS

D. NEAMTL

R. NAGEI

D. NEAMTU

FEBRUARY 2022

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S - FLOATING DEBRIS BARRIER MHS DESIGNED BY MANUFACTURER 68' -LODX58 SEE NOTE 1 L0259 ×57) *—TW 121.75'* W 121.72' AUXILIARY .∠8[']7 RETAINING WALL 986 INTAKE -ELECTRICAL EQUIPMENT RACK WITH SUN SHADE PAD MOUNTED_ ELECTRICAL TRANSFORMER 3+00-FILTER DRAIN -×53° MONITORING MANHOLE -----/ WM . . ĊB--.1 84 .U. RIM 114.12' INV IN: 110.38' SE INV. IN: 110.34' SW INV IN: UNKNOWN NW INV IN: UNKNOWN N INV OUT: 106.47' 82 LOD 80-)5T] Images: [] //2021 2:55:10 PM /_PL1\6384\231131\(GRATE: 115.56'— CLOGGED RIM: 114.16'_/ UNABLE TO OPEN LID 5 2 2 2 2 2 2 2 2 2 2 2 2 3–BAY_ BARN BUILDING WOOD SHED_ FFE 114.82' __St st REV. REMARKS DRWN CHKD DATE

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POI	NT TABLE	
NORTHING	EASTING	DESCRIPTION
479781.03	2030682.00	MH-1
479794.53	2030708.99	CB-2
479832.61	2030769.22	INLET-2
479899.37	2030767.17	MH-2
479936.63	2030858.69	INLET-1
479888.57	2030972.31	MH-3
479893.67	2030990.83	HEADWALL
479878.23	2030656.09	CB-1
479949.66	2030718.87	16" RAW WATER
479998.38	2030956.00	16" RAW WATER
479905.64	2030741.17	INLET-3
479954.32	2030705.99	6' x 6' STRUCTURE
479967.40	2030696.54	EX. WALL
479952.86	2030702.93	8" DIP
479951.90	2030701.58	8" DIP
479962.36	2030694.42	8" DIP
479961.43	2030693.06	8" DIP
479960.90	2030679.04	EOP
479936.14	2030695.98	EOP
479919.71	2030672.73	RADIUS
479907.46	2030681.39	EOP
479898.99	2030669.01	EOP
479867.64	2030690.46	EOP
479822.86	2030714.20	EOP
479794.13	2030753.45	EOP
479886.36	2030792.10	RADIUS
479789.07	2030815.24	EOP
479811.26	2030908.52	EOP
479859.90	2030896.95	RADIUS
479871.38	2030945.62	EOP
479970.53	2030922.23	EOP
479973.97	2030936.83	RADIUS
479988.91	2030935.46	EOP
479991.16	2030959.96	EOP
479974.97	2030973.91	EOP
479973.66	2030959.60	EOP
479941.35	2030986.33	RADIUS
479955.28	2030946.37	EOP
479875.61	2030965.17	EOP
479858.39	2030892.17	RADIUS
479787.58	2030916.89	EOP
479753.98	2030820.65	EOP
479760.70	2030815.85	EOP
479734.34	2030740.07	EOP

POINT TABLE								
POINT NO.	NORTHING	EASTING	DESCRIPTION					
45	479738.87	2030725.61	EOP					
46	479743.11	2030717.49	EOP					
47	479739.19	2030710.62	EOP					
48	479749.11	2030704.86	EOP					
49	479755.36	2030714.47	EOP	F				
50	479789.29	2030692.38	EOP					
51	479849.50	2030660.46	EOP					
52	479904.35	2030622.94	EOP					
53	479912.82	2030635.32	RADIUS					
54	479925.20	2030626.85	EOP					
55	479800.17	2030739.05	EOP					
56	479846.28	2030758.38	RADIUS					
57	480011.53	2030617.87	LIMITS OF DISTURBANCE					
58	480025.86	2030671.86	LIMITS OF DISTURBANCE	\bowtie				
59	480015.15	2030715.34	LIMITS OF DISTURBANCE					
60	479978.60	2030757.95	LIMITS OF DISTURBANCE					
61	479971.35	2030762.83	LIMITS OF DISTURBANCE					
62	480008.41	2030903.02	LIMITS OF DISTURBANCE					
63	480028.55	2030916.61	LIMITS OF DISTURBANCE					
64	480005.78	2030965.60	LIMITS OF DISTURBANCE					
65	479973.99	2030977.40	LIMITS OF DISTURBANCE					
66	479904.87	2030984.46	LIMITS OF DISTURBANCE	F				
67	479910.91	2031004.91	LIMITS OF DISTURBANCE					
68	479888.97	2031012.19	LIMITS OF DISTURBANCE					
69	479880.62	2030987.02	LIMITS OF DISTURBANCE					
70	479854.05	2030989.83	LIMITS OF DISTURBANCE					
71	479802.16	2031027.75	LIMITS OF DISTURBANCE					
72	479786.20	2031019.47	LIMITS OF DISTURBANCE					
73	479761.59	2030941.20	LIMITS OF DISTURBANCE					
74	479778.97	2030935.50	LIMITS OF DISTURBANCE					
75	479751.60	2030819.90	LIMITS OF DISTURBANCE	3				
76	479758.32	2030815.09	LIMITS OF DISTURBANCE					
77	479732.23	2030740.10	LIMITS OF DISTURBANCE					
78	479740.84	2030717.53	LIMITS OF DISTURBANCE					
79	479736.47	2030709.89	LIMITS OF DISTURBANCE					
80	479776.44	2030688.99	LIMITS OF DISTURBANCE					
81	479770.75	2030662.42	LIMITS OF DISTURBANCE					
82	479777.30	2030657.78	LIMITS OF DISTURBANCE					
83	479782.65	2030675.34	LIMITS OF DISTURBANCE					
84	479881.08	2030607.79	LIMITS OF DISTURBANCE	F				
85	479916.71	2030613.94	LIMITS OF DISTURBANCE					
86	479965.27	2030623.31	LIMITS OF DISTURBANCE					
87	479990.95	2030624.66	LIMITS OF DISTURBANCE					
88	479946.85	2030658.51	ELEC. EQUIP. RACK WITH SUN SHADE					

PROJECT NO. 6384-23113

FILE NAME: COO3STPL.DW SHEET NO. C-3

HORIZONTAL CONTROL PLAN

BID SET

REF ast w:/

B

E/

					DESIGNED BY:	R. NAGEL
					DRAWN BY:	D. NEAMTU
					CROSS CHK'D BY:	R. NAGEL
REV. NO.	DATE	DRWN	СНКД	REMARKS	APPROVED BY: DATE:	D. NEAMTU FEBRUARY 2022

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PUBLIC WORKS COMMISSION OF FAYETTEVILLE DEMOLITION AND DECOMMISSIONING OF FORMER WTP AT GLENVILLE LAKE DAM (CUMBE-038) FAYETTEVILLE, NC

-130

-120

PROPOSED _____ GRADE _____

F

1" = 20'

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MAINTENANCE PLAN

AS DESIGNED.

REQUIRED DURING CONSTRUCTION:

LEAVING THE CONSTRUCTION SITE.

AND SEDIMENTATION CONTROL DETAILS.

REPAIR THE SLOPE GRADE.

AND DAILY REPORTS.

CONTROL MEASURES

MAINTENANCE OF THE EROSION AND SEDIMENTATION CONTROL MEASURES SHALL

BE PERFORMED THROUGHOUT THE DURATION OF THE PROJECT. ALL REPORTING,

1. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES (DEVICES) SHALL BE

NEEDED REPAIR SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES

3. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM CLOTH AND

GRAVEL INLET DEVICES. EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE

OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. FOLLOWING

4. SEDIMENT SHALL BE REMOVED FROM BEHIND SEDIMENT FENCES, WHEN IT

BECOMES ABOUT 1/2 FOOT DEEP AT THE FENCE. THE SEDIMENT FENCE

5. EROSION CONTROL MATTING SHALL BE CHECKED PERIODICALLY TO ENSURE

THAT CLOSE CONTACT WITH THE GROUND IS MAINTAINED AND EROSION HAS

MATTING THAT HAVE BEEN DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED. SEE THE SEQUENCE OF CONSTRUCTION IN THE

EROSION AND SEDIMENTATION CONTROL PERMIT FOR ADDITIONAL EROSION

6. ALL SEEDED AREAS SHALL BE FERTILIZED, RE-SEEDED AS NECESSARY AND

MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. IF WASHOUT OCCURS,

MULCHED ACCORDING TO THE SPECIFICATIONS IN THE VEGETATION PLAN TO

8.CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSPECTION, RECORDS,

FORMS TITLED "INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER

(HTTPS://FILES.NC.GOV/NCDEQ/ENERGY%20MINERAL%20AND%20LAND%20RESOURCES/

STORMWATER/NPDES%20MONITORING%20FORMS/DEMLR-CSW-MON-FORM-20130807.PDF).

STORMWATER GENERAL PERMIT NCG010000 AND SELF-INSPECTION RECORDS

1. SEE SHEETS C-3 FOR HORIZONTAL CONTROL AND SHEET C-4 FOR GRADING.

2. ALL OPEN AREAS WITHIN CONSTRUCTION LIMITS SHALL RECEIVE SOD PER THE

REPRESENT MINIMUM MEASURES REQUIRED DURING CONSTRUCTION. THE

3. THE EROSION AND SEDIMENTATION CONTROL FEATURES SHOWN ON THESE DRAWINGS

CONTRACTOR IS RESPONSIBLE FOR INTEGRATING THESE FEATURES AND OTHERS

4. AT ALL TIMES, DISTURB THE MINIMUM AMOUNT OF AREA WITHIN THE IDENTIFIED

LIMITS OF CONSTRUCTION REQUIRED TO ACCOMPLISH THE TASK AT HAND AND

CONTROL PERMIT FOR ADDITIONAL EROSION AND SEDIMENTATION CONTROL DETAILS.

5. SEE THE SEQUENCE OF CONSTRUCTION IN THE EROSION AND SEDIMENTATION

6. SEE SHEETS C-9 AND C-10 FOR ADDITIONAL EROSION AND SEDIMENTATION

9.MAINTAIN RECORDS ON SITE USING STORMWATER INSPECTION MONITORING

FOR LAND DISTURBING ACTIVITIES PER G.S. 113A-54.1" FROM DEMLR

EROSION AND SEDIMENTATION CONTROL NOTES:

STABILIZE DISTURBED AREA AS SOON AS PRACTICAL

VEGETATION PLAN AT THE COMPLETION OF CONSTRUCTION.

REQUIRED TO SUPPORT THE CONTRACTOR'S PROPOSED PLAN.

NOT OCCURRED BENEATH THE DEVICE. ANY AREAS OF THE EROSION CONTROL

CONTRACTOR. THE FOLLOWING MINIMUM MAINTENANCE ACTIVITIES SHALL BE

CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUN-OFF PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE PER WEEK. ANY

2-INCH-DIAMETER STONE PERIODICALLY TO PREVENT SEDIMENT FROM

INSPECTING, AND RECORD KEEPING IN THE RESPONSIBILITY OF THE

2. TEMPORARY CONSTRUCTION ENTRANCES SHALL BE DRESSED WITH

CLEANING ACTIVITIES, STONE SHALL BE REPLACED AS NECESSARY.

SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.

STABILIZATION NOTES

PERMANENT GROUNDCOVER IS REQUIRED WITHIN 7 DAYS.

DEFINITION:

PURPOSE:

- MATERIALS.
- CONDITIONS WHERE PRACTICE APPLIES:
- AND TOPSOIL STOCKPILES.
- > PERMANENT SODDING:

SPECIFICATIONS:

- > SEEDBED REQUIREMENTS:

- OF SOIL).
- > SUFFICIENT PORE SPACE TO PERMIT ROOT PENETRATION.
- BE HYDROSEEDED.

IF ANY OF THE ABOVE CRITERIA ARE NOT MET (I.E., IF EXISTING SOIL IS TOO COARSE, DENSE, SHALLOW OR ACIDIC TO FOSTER VEGETATION), SPECIAL AMENDMENTS ARE REQUIRED. THE SOIL CONDITIONERS DESCRIBED BELOW MAY BE BENEFICIAL OR, PREFERABLY, TOPSOIL MAY BE APPLIED.

- > SEEDBED PREPARATION:

	00				AS NECESSART.
					LIME AND FERTILIZER NEEDS SHAL PERFORMED FREE OF CHARGE BY TESTING LABORATORY.
					WHEN SOIL TESTS ARE NOT AVAIL SPECIFICATIONS SHOWN BELOW:
					 > GROUND AGRICULTURAL LIMESTOL LIGHT-TEXTURED, SANDY SOILS: HEAVY-TEXTURED, CLAYEY SOIL > FERTILIZER: GRASSES: 1000 LB/ACRE OF 1
					APPLY LIME AND FERTILIZER EVEN SOIL BY DISKING OR OTHER SUITA WHEN USING A HYDROSEEDER, AF COMPLETE SEEDBED PREPARATION UNIFORM SURFACE (SLOPES LESS COLLECT WATER. BROADCAST SEE SEALED BY RAINFALL.
					> SEEDING:
					SEEDING DATES GIVEN IN THE SEE "POSSIBLE". SEEDINGS PROPERLY PROBABILITY OF SUCCESS. IT IS SEEDING OUTSIDE THESE DATES. FAILURE INCREASES RAPIDLY. SE REDUCE CHANGES OF SUCCESS E SCHEDULING LAND-DISTURBING AC
					USE CERTIFIED SEED FOR PERMAN INSPECTED BY THE NORTH CAROL NORTH CAROLINA STANDARDS AND
					LABELING OF NON-CERTIFIED SEE INFORMATION ON SEED PURITY, GI MEET STATE STANDARDS FOR CON "PROHIBITED" NOXIOUS WEED SEE
					DESIGNED BY: R. NAGEL
					DRAWN BY:R. BOGGS
					CROSS CHK'D BY: R. NAGEL 5400 Gle
REV.	DATE	DRWN	СНКД	REMARKS	DATE:FEBRUARY_2022 Raleigh, DATE:FEBRUARY_2022 NC E-04

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> STABILIZATION FOR THIS PROJECT SHALL COMPLY WITH THE TIME FRAME GUIDELINES AS SPECIFIED BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES. PERMANENT GROUNDCOVER IS REQUIRED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT. TEMPORARY OR

> TEMPORARY SEEDING: PLANTING RAPID-GROWING ANNUAL GRASSES, SMALL GRAINS, OR LEGUMES TO PROVIDE INITIAL, TEMPORARY COVER FOR EROSION CONTROL ON DISTURBED AREAS. > PERMANENT SODDING: CONTROLLING RUNOFF AND EROSION ON DISTURBED AREAS BY ESTABLISHING PERENNIAL VEGETATIVE COVER.

> TEMPORARY SEEDING: TO TEMPORARILY STABILIZE DENUDED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 7 CALENDAR DAYS. TEMPORARY SEEDING CONTROLS RUNOFF AND EROSION UNTIL PERMANENT VEGETATION CAN BE ESTABLISHED.

> PERMANENT SODDING: TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS, AND TO PERMANENTLY STABILIZE SUCH AREAS IN A MANNER THAT IS ECONOMICAL. ADAPTS TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT

> TEMPORARY SEEDING: ON ANY CLEARED, UNVEGETATED, OR SPARSELY VEGETATED SOIL SURFACE WHERE VEGETATION COVER IS NEEDED FOR LESS THAN 1 YEAR. APPLICATIONS OF THIS PRACTICE INCLUDE DIVERSIONS, DAMS, TEMPORARY SEDIMENT BASINS, TEMPORARY ROAD BANKS,

> FINE-GRADED AREAS ON WHICH PERMANENT, LONG-LIVED VEGETATIVE COVER IS THE MOST PRACTICAL OR MOST EFFECTIVE METHOD OF STABILIZING THE SOIL.

ESTABLISHMENT OF VEGETATION SHOULD NOT BE ATTEMPTED ON SITES THAT ARE UNSUITABLE DUE TO INAPPROPRIATE SOIL TEXTURE, POOR DRAINAGE, CONCENTRATED OVERLAND FLOW, OR STEEPNESS OF SLOPE UNTIL MEASURES HAVE BEEN TAKEN TO CORRECT THESE PROBLEMS.

TO MAINTAIN A GOOD STAND OF VEGETATION. THE SOIL MUST MEET CERTAIN MINIMUM REQUIREMENTS AS A GROWTH MEDIUM. THE EXISTING SOIL SHOULD HAVE THESE CRITERIA:

> ENOUGH FINE-GRAINED (SILT AND CLAY) MATERIAL TO MAINTAIN ADEQUATE MOISTURE AND NUTRIENT SUPPLY (AVAILABLE WATER CAPACITY OF AT LEAST .05 INCHES WATER TO 1 INCH

> SUFFICIENT DEPTH OF SOIL TO PROVIDE AN ADEQUATE ROOT ZONE. THE DEPTH TO ROCK OR IMPERMEABLE LAYERS SUCH AS HARDPANS SHOULD BE 12 INCHES OR MORE, EXCEPT ON SLOPES STEEPER THAN 2H:1V WHERE THE ADDITION OF SOIL IS NOT FEASIBLE.

> A FAVORABLE PH RANGE FOR PLANT GROWTH, USUALLY 6.0 TO 6.5. > FREE FROM LARGE ROOTS, BRANCHES, STONES, LARGE CLODS OF EARTH, OR TRASH OF ANY KIND. CLODS AND STONES MAY BE LEFT ON SLOPES STEEPER THAN 3H:1V IF THEY ARE TO

ROUGHEN SURFACES PRIOR TO SEEDING. TILL OR DISC THE PREPARED AREAS TO BE SEEDED TO A MIN. DEPTH OF FOUR (4) INCHES AND RETURN AREAS TO THE APPROVED FINAL GRADE

> SHALL BE DETERMINED BY SOIL TESTS. SOIL TESTING IS RE BY THE NORTH CAROLINA DEPARTMENT OF AGRICULTURE SOIL

AVAILABLE, FOLLOW RATES SUGGESTED IN THE SEEDING

IMESTONE:

SOILS: 1 TO $1\frac{1}{2}$ TONS/ACRE SOILS: 2 TO 3 TONS/ACRE

OF 10-10-10 OR EQUIVALENT

EVENLY AND INCORPORATE INTO THE TOP 4 TO 6 INCHES OF SUITABLE MEANS. OPERATE MACHINERY ON THE CONTOUR. ER, APPLY LIME AND FERTILIZER TO A ROUGH, LOOSE SURFACE. RATION BY BREAKING UP LARGE CLODS AND RAKING INTO A SMOOTH, LESS THAN 3H:1V). FILL IN OR LEVEL DEPRESSIONS THAT CAN AST SEED INTO A FRESHLY LOOSENED SEEDBED THAT HAS NOT BEEN

HE SEEDING MIXTURE SPECIFICATIONS ARE DESIGNATED AS "BEST" OR OPERLY CARRIED OUT WITHIN THE "BEST" DATES HAVE A HIGH IT IS ALSO POSSIBLE TO HAVE SATISFACTORY ESTABLISHMENT WHEN ATES. HOWEVER, AS YOU DEVIATE FROM THEM, THE PROBABILITY OF SEEDING ON THE LAST DATE SHOWN UNDER "POSSIBLE" MAY CESS BY 30 TO 50 PERCENT. ALWAYS TAKE THIS INTO ACCOUNT IN BING ACTIVITIES.

PERMANENT SEEDING WHENEVER POSSIBLE. CERTIFIED SEED IS CAROLINA CROP IMPROVEMENT ASSOCIATION. IT MEETS PUBLISHED DS AND SHOULD BEAR AN OFFICIAL "CERTIFIED SEED" LABEL.

D SEED IS ALSO REQUIRED BY LAW. LABELS CONTAIN IMPORTANT RITY, GERMINATION, AND PRESENCE OF WOOD SEEDS. SEEDS MUST R CONTENT OF NOXIOUS WEEDS. DO NO ACCEPT SEED CONTAINING ED SEED.

INOCULATE LEGUME SEED WITH THE RHIZOBIUM BACTERIA APPROPRIATE TO THE SPECIES OF LEGUME.

APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DROP-TYPE SPREADER, DRILL, CULTIPACKER SEEDER. OR HYDROSEEDER ON A FIRM. FRIABLE SEEDBED.

WHEN USING A DRILL OR CULTIPACKER SEEDER, PLANT SMALL GRAINS NO MORE THAN 1 INCH DEEP, GRASSES AND LEGUMES NO MORE THAN $\frac{1}{2}$ INCH. EQUIPMENT SHOULD BE CALIBRATED IN THE FIELD FOR THE DESIRED SEEDING RATE.

WHEN USING BROADCAST-SEEDING METHODS, SUBDIVIDE THE AREA INTO WORKABLE SECTIONS AND DETERMINE THE AMOUNT OF SEED NEEDED FOR EACH SECTION. APPLY ONE-HALF THE SEED WHILE MOVING BACK AND FORTH ACROSS THE AREA, MAKING A UNIFORM PATTERN: THEN APPLY THE SECOND HALF IN THE SAME WAY, BUT MOVING AT RIGHT ANGLES TO THE FIRST PASS.

MULCH ALL PLANTINGS IMMEDIATELY AFTER SEEDING.

> HYDROSEEDING:

SURFACE ROUGHENING IS PARTICULARLY IMPORTANT WHEN HYDROSEEDING, AS A ROUGHENED SLOPE WILL PROVIDE SOME NATURAL COVERAGE FOR LIME, FERTILIZER, AND SEED. THE SURFACE SHOULD NOT BE COMPACTED OR SMOOTH. FINE SEEDBED PREPARATION IS NOT NECESSARY FOR HYDROSEEDING OPERATIONS: LARGE CLODS, STONES, AND IRREGULARITIES PROVIDE CAVITIES IN WHICH SEEDS CAN LODGE.

RATE OF WOOD FIBER (CELLULOSE) APPLICATION SHOULD BE AT LEAST 4000 LB/ACRE.

APPLY LEGUME INOCULANTS AT FOUR TIMES THE RECOMMENDED RATE WHEN ADDING INOCULANT TO A HYDROSEEDER SLURRY.

IF A MACHINERY BREAKDOWN OF $\frac{1}{2}$ to 2 hours occurs, add 50 percent more seed to THE TANK, BASED ON THE PROPORTION OF THE SLURRY REMAINING. THIS SHOULD COMPENSATE FOR DAMAGE TO SEED. BEYOND 2 HOURS, A FULL RATE OF NEW SEED MAY BE NECESSARY.

LIME IS NOT NORMALLY APPLIED WITH A HYDRAULIC SEEDER BECAUSE IT IS ABRASIVE. IT CAN BE BLOWN ONTO STEEP SLOPES IN DRY FORM.

WHEN APPLYING HYDROSEED THE TOWER OR TANK METHOD SHALL BE USED. BELOW ARE THE SEQUENCE OF APPLICATION FOR BOTH METHODS:

WHEN USING THE TANK METHOD THE FIRST APPLICATION SHOULD BE WITH 🖁 MULCH, ALL SEED AND FERTILIZER AND THE SECOND APPLICATION SHOULD BE WITH $\frac{1}{3}$ MULCH ONLY.

WHEN USING THE TOWER METHOD THE FIRST APPLICATION SHOULD BE WITH $\frac{1}{3}$ mulch only and THE SECOND APPLICATION SHOULD BE WITH $\frac{2}{3}$ MULCH, ALL SEED AND FERTILIZER.

> MAINTENANCE:

GENERALLY, A STAND OF VEGETATION CANNOT BE DETERMINED TO BE FULLY ESTABLISHED UNTIL SOIL COVER HAS BEEN MAINTAINED FOR ONE FULL YEAR FROM PLANTING. INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RESEEDINGS WITHIN THE SAME SEASON, IF POSSIBLE.

RESEEDING: IF A STAND HAS INADEQUATE COVER, REEVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER. REESTABLISH THE STAND AFTER SEEDBED PREPARATION OR OVERSEED THE STAND. CONSIDER SEEDING TEMPORARY, ANNUAL SPECIES IF THE TIME OF YEAR IS NOT APPROPRIATE FOR PERMANENT SEEDING. IF VEGETATION FAILS TO GROW, SOIL MUST BE TESTED TO DETERMINE IF ACIDITY OR NUTRIENT IMBALANCE IS **RESPONSIBLE**

FERTILIZATION: ON THE TYPICAL DISTURBED SITE, FULL ESTABLISHMENT USUALLY REQUIRES REFERTILIZATION IN THE SECOND GROWING SEASON. FINE TURF REQUIRES ANNUAL MAINTENANCE FERTILIZATION. USE SOIL TESTS IF POSSIBLE OR FOLLOW THE GUIDELINES GIVEN FOR THE SPECIFIC SEEDING MIXTURE.

> TEMPORARY SEEDING SPECIFICATIONS*:

> SEEDING MIXTURES AND DATES:

<u>FALL TO EARLY SPRING</u> WINTER RYE (GRAIN) KOBE LESPEDEZA	(AUG.	<u>15 TO</u>	<u>MAY 1)</u>	<u>RATE</u>	<u>(LB/ACR</u> 120 50	<u>E)</u>

<u>RATE (LB/ACRE)</u> <u>SPRING TO LATE SUMMER (MAY 1 TO AUG. 15)</u> GERMAN MILLET

> SOIL AMENDMENTS:

1. FOLLOW RECOMMENDATIONS OF SOIL TESTS; OR 2. APPLY 2000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

> MULCH:

APPLY 4,000 LB/ACRE STRAW. ANCHOR MULCH BY TACKING WITH ASPHALT, ROVING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

> MAINTENANCE:

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

REF: 6.10 A, B & C, NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, REV. MAY 2008.

PUBLIC WORKS COMMISSION OF FAYETTEVILLE DEMOLITION AND DECOMMISSIONING OF FORMER WTP AT GLENVILLE LAKE DAM (CUMBE-038) FAYETTEVILLE, NC

> PERMANENT SODDING SPECIFICATIONS*:

> SOD:

> SOIL AMENDMENTS:

FERTILIZER.

> MAINTENANCE:

IMMEDIATELY.

MARCH 2009

ALL DISTURBED AREAS SHALL BE STABILIZED WITH BERMUDA SOD.

2. APPLY 4000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1000 LB/ACRE 10-10-10

REFERTILIZE IN THE SECOND YEAR UNLESS GROWTH IS ADEQUATE. MAY BE MOWED ONCE OR

TWICE A YEAR, BUT MOWING IS NOT NECESSARY. RESOD AND REFERTILIZE DAMAGED AREAS

* REF: 6.11, NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, REV.

SOD SHALL BE WATERED AND MAINTAINED PER SPECIFICATIONS.

1. FOLLOW RECOMMENDATIONS OF SOIL TESTS; OR

TEMPORARY GROUND STABILIZATION*				
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS		
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE		
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE		
SLOPES STEEPER THAN 3H:1V	7 DAYS	NONE		
SLOPES 3H:1V OR FLATTER	7 DAYS	NONE		
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4H:1V	7 DAYS	NONE		

*EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION II.B (2)(1)).

EROSION AND SEDIMENTATION CONTROL NOTES

FILE NAME: CO11ESNT.DV SHEET NO.

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

			SECTION E: GROUND STA	BILIZATION				
			R	equired Ground St	tabilization Tin	netrames		
			Site Area Description	Stabilize within t many calendar days after ceasir land disturbance	ng	Timeframe va	riations	
			(a) Perimeter dikes, swales, ditches, and perimeter slopes	d 7		None		
			(b) High Quality Water (HQW) Zones	7		None		
			(c) Slopes steeper than 3:1	7	If slopes a not steep allowed	are 10' or less in er than 2:1, 14	n length and days are	are
			(d) Slopes 3:1 to 4:1	7	-7 days fo length an -7 days fo ditches, p Zones -10 days f	r slopes greate d with slopes s r perimeter dil erimeter slope	er than 50' in steeper than kes, swales, es and HQW Vatershed	4:1
			(e) Areas with slopes flatter than 4:1	7	-7 days fo ditches, p -10 days f there is ze	r perimeter dik erimeter slope or Falls Lake W ero slope	kes, swales, es and HQW Z /atershed un	Zones less
			Note: After the permaner ground stabilization shall practicable but in no case activity. Temporary grou surface stable against acc	nt cessation of cons be converted to pe longer than 90 cale nd stabilization sha elerated erosion ur	struction activi ermanent grou endar days afte II be maintaine ntil permanent	ties, any areas nd stabilizatior er the last land ed in a manner ground stabili	with tempor n as soon as l disturbing to render th zation is achi	e ieved.
			Stabilize the ground suffic techniques in the table be	ciently so that rain velow:	will not dislod	ge the soil. Use	e one of the	
			 Temporary Stal Temporary grass seed covorther mulches and tackifi 	bilization /ered with straw or ers	 Permanent g other mulche 	rmanent Stabiliz rass seed covered es and tackifiers	z ation d with straw or	
			 Hydroseeding Rolled erosion control prowithout temporary grass Appropriately applied strate Plastic sheeting 	oducts with or seed aw or other mulch	 Geotextile fa reinforcemer Hydroseeding Shrubs or oth with mulch Uniform and sufficient to r 	brics such as perr it matting er permanent pl evenly distribute restrain erosion	manent soil antings covere ed ground cove	d r
					 Structural me retaining wal Rolled erosio 	thods such as co s n control produc	oncrete, asphal ts with grass se	t or eed
			POLYACRYLAMIDES (PAN	AND FLOCCULA	ANTS			
			 Select nocculants the construction, select in occulants in construction, select in the sele	ting from the <i>NC D</i> tor before the inlet t the concentration and in accordance v ea for containment leak-proof contain econdary containm	WR List of App WR List of App ts to Erosion and s specified in t with the manut of treated Sto hers that are ke	roved PAMS/Fl nd Sediment Co he NC DWR Lis facturer's instru- ormwater befor ept under storn	ontrol Measu ontrol Measu <i>st of Approve</i> uctions. re dischargin n-resistant co	ures. [.] d g over
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						DESIGNED BY: DRAWN BY: SHEET CHK'D BY:	R. NAGEL R. BOGGS D. NEAMTU	CI S
	2 WNI	СНКЛ	DEMAI	RKS		CROSS CHK'D BY:	R. NAGEL D. NEAMTU	5400 (Raleiç Tel: (9
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	IPMENT AND VEHICLE MAINTENANCE		
1.	Maintain vehicles and equipment to prevent discharge of fluids.		
2.	Provide drip pans under any stored equipment.		
3.	Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.		O/ OR STAPLES
4.	Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).		
5.	Remove leaking vehicles and construction equipment from service until the problem has been corrected.	CONCRETE	CLEARLY MARKED SIGNAGE NOTING DEVICE (18"X24" MIN.)
6.	Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.		PLAN
.ITTE	R, BUILDING MATERIAL AND LAND CLEARING WASTE		BELOW GRADE
1.	Never bury or burn waste. Place litter and debris in approved waste containers.		
2.	Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.	<u>CON</u>	CRETE WASHOU Do not dischar
3.	Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.	2.	Dispose of, or r
4.	Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain. stream or wetland.	3.	Manage washo
5.	Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers		lot perimeter s
6.	Anchor all lightweight items in waste containers during times of high winds.	4.	alternate meth
7.	Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.		review and app types of tempo
8.	Dispose waste off-site at an approved disposal facility.	5.	Do not use con
9.	On business days, clean up and dispose of waste in designated waste containers.		sections. Storr discharged to t
PAIN	T AND OTHER LIQUID WASTE		be pumped ou
1.	Do not dump paint and other liquid waste into storm drains, streams or wetlands.	6.	Locate washou
2.	Locate paint washouts at least 50 feet away from storm drain inlets and surface		install protection
2	waters unless no other alternatives are reasonably available.		spills or overflo
3. ⊿	Contain liquid wastes in a controlled area.	7.	Locate washou
4. 5	Prevent the discharge of soans, solvents, detergents and other liquid wastes from		entrance pad i
5.	construction sites.	8	Install at least (
		0.	limits. Post sig
PORT	ABLE TOILETS	9.	Remove leavin
1.	Install portable toilets on level ground, at least 50 feet away from storm drains,		overflow event
	offset is not attainable, provide relocation of portable toilet behind silt fence or place		components w
	on a gravel pad and surround with sand bags.	10	At the complete
2.	Provide staking or anchoring of portable toilets during periods of high winds or in high	10.	in an approved
	foot traffic areas.		caused by rem
3.	Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace		-
	with properly operating unit.	HERB	ICIDES, PESTICI
EART		1.	Store and appl
<u>1.</u>	Show stockpile locations on plans. Locate earthen-material stockpile areas at least		restrictions.
	50 feet away from storm drain inlets, sediment basins, perimeter sediment controls	2.	Store nerbicide
	and surface waters unless it can be shown no other alternatives are reasonably		accidental pois
•	available.	3.	Do not store he
2.	Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the top of stockpile		possible or whe
2	Provide stable stone access point when feasible		or surface wate
э. ⊿	Stabilize stocknile within the timeframes provided on this sheet and in accordance	4.	Do not stockpil
ч.	with the approved plan and any additional requirements. Soil stabilization is defined		
	erosion on disturbed soils for temporary or permanent control needs.	HAZA	RDOUS AND TO
		1.	Create designat
		2	Place hazardou
		∠ .	
		3.	Do not store ha

D STABILIZATION AND MATERIALS HANDLING

NC F-0412

PUBLIC WORKS COMMISSION OF FAYETTEVILLE DEMOLITION AND DECOMMISSIONING OF FORMER WTP AT GLENVILLE LAKE DAM (CUMBE-038) FAYETTEVILLE, NC

	1				F
		PART III		PART III	
	SELF-INSPECTI	ON, RECORDKEEPING AND REPORTING	SELF-INSPECTION, RE	CORDKEEPING AND REPORTING	SELF-
SECTION A: SEL Self-inspections below. When a	F-INSPECTION are required dur dverse weather c	ing normal business hours in accordance with the table or site conditions would cause the safety of the inspection	SECTION B: RECORDKEEPING 1. E&SC Plan Documentation The approved F&SC plan as well as any al	pproved deviation shall be kept on the site. The	SECTION C: REPORTING 1. Occurrences that Must Permittees shall report
personnel to be which it is safe t greater than 1.0 performed upor	in jeopardy, the to perform the in:) inch occurs outs o the commencer	inspection may be delayed until the next business day on spection. In addition, when a storm event of equal to or side of normal business hours, the self-inspection shall be ment of the next business day. Any time when inspections	approved E&SC plan must be kept up-to- The following items pertaining to the E&S inspection at all times during normal bus	date throughout the coverage under this permit. SC plan shall be kept on site and available for iness hours.	 (a) Visible sediment de (b) Oil spills if:
were delayed sł	nall be noted in th	ne Inspection Record.	Item to Document	Documentation Requirements	• They are 25 gallo
Inspect (1) Rain gauge maintained in	Frequency (during normal business hours) Daily	Inspection records must include: Daily rainfall amounts. If no daily rain gauge observations are made during weekend or	(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC	 They are less that They cause sheet They are within 1
good working order		holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device		plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.	(c) Releases of hazard of the Clean Water
(2) E&SC Measures	At least once per 7 calendar days and within 24	 approved by the Division. 1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 	(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.	(d) Anticipated bypass
(3) Stormwater	hours of a rain event <u>></u> 1.0 inch in 24 hours At least once per	 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken. 1. Identification of the discharge outfalls inspected, 	(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.	(e) Noncompliance with environment.
discharge outfalls (SDOs)	7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in	 Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 	 (d) The maintenance and repair requirements for all E&SC measures have been performed. 	Complete, date and sign an inspection report.	2. Reporting Timeframes After a permittee beco
(4) Perimeter of site	At least once per 7 calendar days and within 24	 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken. If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left 	(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.	other requirements list reported to the Depart 858-0368.
	hours of a rain event ≥ 1.0 inch in 24 hours	 the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future 	2. Additional Documentation to be Kept on In addition to the E&SC plan documents a	Site bove, the following items shall be kept on the	OccurrenceRe(a) Visible sediment•
(5) Streams or wetlands onsite or offsite (where	At least once per 7 calendar days and within 24 bours of a rain	releases.If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made:1Description evidence and date of corrective actions taken, and	site and available for inspectors at all time Division provides a site-specific exemptio this requirement not practical:	es during normal business hours, unless the n based on unique site conditions that make	deposition in a stream or wetland
accessible)	event \geq 1.0 inch in 24 hours	 Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit. 	(a) This General Permit as well as the Ce	rtificate of Coverage, after it is received.	•
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent	(b) Records of inspections made during t record the required observations on Division or a similar inspection form t	the previous twelve months. The permittee shall the Inspection Record Form provided by the that includes all the required elements. Use of	
		 ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as 	electronically-available records in lieu shown to provide equal access and u	u of the required paper copies will be allowed if tility as the hard-copy records.	(b) Oil spills and release of hazardous substances per Item
		soon as possible.	3. Documentation to be Retained for Three All data used to complete the e-NOI and a	Years Il inspection records shall be maintained for a period	1(b)-(c) above
NOTE: The rai	n inspection rese	ts the required 7 calendar day inspection requirement.	of three years after project completion an	d made available upon request. [40 CFR 122.41]	• bypasses [40 CFR 122.41(m)(3)]
		PART II, S	SECTION G, ITEM (4)		(d) Unanticipated • bypasses [40 CFR •

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

)							
						DESIGNED BY:	R. NAGEL
5						DRAWN BY:	R. BOGGS
						SHEET CHK'D BY:_	D. NEAMTU
-						CROSS CHK'D BY:_	R. NAGEL
j						APPROVED BY:	D. NEAMTU
	REV. NO.	DATE	DRWN	СНКД	REMARKS	DATE:	FEBRUARY 2022

:WR000ST] Images: [] 12/3/2021 3:06:30 PM om:PW_PL1\6384\231131\04 XREFs: [CDMS_2436, CEP000ST, CV Last saved by: FOGARTYPM Time: pw:\\cdmsmith-az02-pw.bentley.cc © 2022 CDM SMITH ALL RIGHTS RESF REUSE OF DOCUMENTS: THESE DC

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal

(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include

(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,

(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and

(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PUBLIC WORKS COMMISSION OF FAYETTEVILLE DEMOLITION AND DECOMMISSIONING OF FORMER WTF AT GLENVILLE LAKE DAM (CUMBE-038) FAYETTEVILLE, NC

122.41(m)(3)]

may endanger health or the

environment[40

CFR 122.41(I)(7)]

(e) Noncompliance

with the conditions

of this permit that

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SELF-IN	NSPECTION. RECORDKEEPING AND REPORTING	
NG		
Must k	be fellowing occurrences:	
nt der	position in a stream or wetland.	$\overline{1}$
gallon	s or more,	
s than	25 gallons but cannot be cleaned up within 24 hours,	
sheen	on surface waters (regardless of volume), or	
thin 10	00 feet of surface waters (regardless of volume).	
zardou /ater A 02.4) c	us substances in excess of reportable quantities under Section 311 Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA or G.S. 143-215.85.	_
passe	s and unanticipated bypasses.	
e with	the conditions of this nermit that may endanger health or the	
C VVIUI	and containing of this permit that may chuanger fiearth of the	
		2
mes a	nd Other Requirements	
becom	ies aware of an occurrence that must be reported, he shall contact	
s liste	d below. Occurrences outside normal business hours may also be	
epartm	ient's Environmental Emergency Center personnel at (800)	
Rep	orting Timeframes (After Discovery) and Other Requirements	
• И • И	<i>Vithin 24 hours,</i> an oral or electronic notification.	
Se	ediment and actions taken to address the cause of the deposition.	
D	ivision staff may waive the requirement for a written report on a ase-by-case basis.	
• If	the stream is named on the <u>NC 303(d) list</u> as impaired for sediment-	
re m	elated causes, the permittee may be required to perform additional	
d	etermine that additional requirements are needed to assure compliance	
W	th the federal or state impaired-waters conditions.	3
sł	hall include information about the date, time, nature, volume and	\sim
lc	cation of the spill or release.	
• A	report at least ten days before the date of the bypass, if possible.	
e [.]	ffect of the bypass.	
• N	<i>/ithin 24 hours</i> , an oral or electronic notification.	
• И а	<i>Ithin 7 calendar days,</i> a report that includes an evaluation of the uality and effect of the bypass.	_
• N	/ithin 24 hours, an oral or electronic notification.	
• И	<i>/ithin 7 calendar days</i> , a report that contains a description of the oncompliance and its causes: the period of noncompliance	
ir	icluding exact dates and times, and if the noncompliance has not	
b	een corrected, the anticipated time noncompliance is expected to	
p	revent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).	
• D	ivision staff may waive the requirement for a written report on a asse-by-case basis.	
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		PROJECT NO. 6384-231131 FILE NAME: C013FSNT DWG
/TP	NCGO1 SELF-INSPECTION,	SHEET NO.
	RECORDKEEPING AND REPORTING	C-13
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PROJECT NO. 6384-2311 FILE NAME: CD01ESDT.DW DEMOLITION AND DECOMMISSIONING OF FORMER WTP SHEET NO. **EROSION AND SEDIMENTATION DETAILS** CD-1 FAYETTEVILLE, NC

RE TIES	ISTANT HIGH- TH POLY	
RRICADE FABR	IC (TYPICAL)	
	 WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 50' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA. ATTACH SIGNES SECURELY TO EENCE POSTS AND 	
	FABRIC. 7. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.	
TION FENC	E	
		2
T FENCE	OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND WIRE SCREEN SMOOTH IT TO AN EVEN GRADE. NCDOT #57 WASHED STONE IS RECOMMENDED.	
	1' MINIMUM 2' MAXIMUM	
	SEDIMENT SEDIMENT	
	PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS. 2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS OVER ALL BLOCK	
	OPENINGS TO HOLD GRAVEL IN PLACE. 3. USE CLEAN GRAVEL, 3/4 TO 1/2 INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP. 4. REMOVE ACCUMULATED SEDIMENT ONCE IT BUILDS UP TO 1 FOOD DEEP AT THE YARD INLET. REFRESH GRAVEL AS	5
	NEEDED TO PREVENT CLOGGING.	
E NOTE 1	2:1 SLOPE, GRAVEL FILTER	
AP	YARD INLET PROTECTION	-4
	NTS -	
	LEK. Noine	

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				NTS		
V.	DATE		СНКД	REMARKS	DESIGNED BY: R. NAGEL DRAWN BY: R. BOGGS SHEET CHK'D BY: D. NEAMTU CROSS CHK'D BY: R. NAGEL APPROVED BY: D. NEAMTU	54I Ra Te
Э.	DATE	DIAMIN	OFINE		DATE:TEDROART 2022	NC

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PUBLIC WORKS COMMISSION OF FAYETTEVILLE DEMOLITION AND DECOMMISSIONING OF FORMER WTP AT GLENVILLE LAKE DAM (CUMBE-038) FAYETTEVILLE, NC

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GN CRITERIA: DDES: – 2018 NORTH CAROLINA BUIDING CODE – 2018 NORTH CAROLINA EXISTING BUILDING		CONCRETE:
GN CRITERIA: ODES: – 2018 NORTH CAROLINA BUIDING CODE – 2018 NORTH CAROLINA EXISTING BUILDING		CONCRETE:
ODES: – 2018 NORTH CAROLINA BUIDING CODE – 2018 NORTH CAROLINA EXISTING BUILDING		
2018 NORTH CAROLINA BUIDING CODE2018 NORTH CAROLINA EXISTING BUILDING		ALL MATERIALS AND METI ACI 318 REQUIREMENTS.
- 2018 NORTH CAROLINA EXISTING BUILDING		ALL CONCRETE SHALL BE
	CODE	WATER REDUCING AGENT
- ACT 318 BUILDING CODE REQUIREMENTS F - AISC MANUAL OF STEEL CONSTRUCTION, FC	OR REINFORCED CONCRETE	ALL CONCRETE SURFACES SPECIFICATIONS, SHALL E SOON AS CEMENT FINISH
GN LOADS:		ALL EXPOSED CORNERS UNLESS OTHERWISE NOTE
VE LOADS:		THE CONTRACTOR SHALL
- UNRESTRICTED VEHICULAR ACCESS	300 PSF OR HS20	CONSTRUCTION JOINTS IN
DOF SNOW LOAD:		REINFORCING STEEL:
 GROUND SNOW LOAD, Pg SNOW EXPOSURE FACTOR, Ce SNOW LOAD IMPORTANCE FACTOR, Is THERMAL FACTOR, Ct 	10 PSF 1.0 1.1 1.0	ALL ACCESSORIES SHALL REINFORCING STEEL SHA WISE NOTED:
IND I OADS:		- CONCRETE CAST AG
– RISK CATEGORY	III	- FORMED SURFACES
 ULTIMATE DESIGN WIND SPEED NOMINAL DESIGN WIND SPEED EXPOSURE CATECORY 	130 MPH 101 MPH	– FORMED SURFACES
– EXPOSORE CATEGORT – COMPONENTS AND CLADDING – INTERNAL PRESSURE COEFFICIENT	NA NA	IN CONTACT WITH S
		— SLABS, WALLS A — BEAMS AND COL
- SEISMIC DESIGN CATEGORY	С	LAP SPLICES SHALL BE
 SEISMIC IMPORTANCE FACTOR, I MAPPED SPECTRAL RESPONSE ACC, S_S 	1.25 0.22	APPROVAL.
- MAPPED SPECIRAL RESPONSE ACC, S ₁ - SPECTRAL RESPONSE COEFFICIENT, S _{DS} - SPECTRAL RESPONSE COEFFICIENT, S _{D1}	0.096 0.234 0.154	THE CONTRACTOR SHALL CONFORMANCE WITH ACI
– PIPE ENCASEMENT	2500 PSI	PRECAST PRESTRESSED CO
- PRESTRESSED ELEMENTS	5000 PSI	ALL PRECAST PRESTRESS PROFESSIONAL ENGINEER
- ALLOWABLE BEARING PRESSURE FOR SPREA	AD FOOTINGS OVER	IN CONFORMANCE WITH EQUIPMENT LOADS OR O SHALL BE CONSIDERED /
SUBSURFACE PREPARED AS PER SPECIFICA	TIONS: 2000 PSF	
ALL STRUCTURAL DRAWINGS SHALL BE USED I	IN CONJUNCTION WITH THE	FLOATATION CONSIDERATION
ARCHITECTURAL, HVAC, PLUMBING, MECHANICAI DRAWINGS AND SPECIFICATIONS.	L, CIVIL, ELECTRICAL AND SHOP	STRUCTURES WERE DESI PLACED INTO SERVICE. T
THE CONTRACTOR SHALL REVIEW AND VERIFY AND REVIEW ALL FIELD CONDITIONS THAT MAY FACILITY, SHOULD DISCREPANCIES APPEAR, TH ENGINEER IN WRITING TO OBTAIN ENGINEER'S	DIMENSIONS SHOWN IN ALL PLANS AFFECT THE INSTALLATION OF THE E CONTRACTOR SHALL NOTIFY THE CLARIFICATION BEFORE COMMENCING	CONSTRUCTION. THE GEN (NEW AND EXISTING) FRO GROUNDWATER LEVELS, U
FOR ALL ITEMS EMBEDDED IN OR PASSED TH	ROUGH CONCRETE THE CONTRACTOR	STRUCTURAL STEEL:
SHALL INITIALLY REFER TO MECHANICAL, HEATI TYPE, SIZE, LOCATION AND SPECIAL INSTALLAT ITEMS.	ING AND VENTILATION DRAWINGS FOR TON REQUIREMENTS FOR THESE	DESIGN, FABRICATION, EF ACCORDANCE WITH THE ALL STRUCTURAL STEEL:
THE CONTRACTOR SHALL TAKE ANY AND ALL EXISTING STRUCTURES FROM DAMAGE WHEN W STRUCTURES PERFORMING WORK SUCH AS DE AND OTHERS.	NECESSARY MEASURES TO PROTECT VORKING IN AND AROUND EXISTING EMOLITION, FOUNDATION EXCAVATION	W SHAPES — M, S AND HP SHAPES CHANNELS AND ANGLE
SIZE AND LOCATION OF EQUIPMENT PADS AND) ANCHOR BOLTS SHALL BE PER	HSS (SQUARE, RECTAN PLATES -
ANY EQUIPMENT THAT MAY INDUCE VIBRATION ADEQUATELY ISOLATED FROM THE STRUCTURES	TO THE STRUCTURE SHALL BE S.	HIGH-STRENGTH BOLT TENSION CONTROL BO NUTS – HARDENED STEEL WAS
ALL DETAILS AND SECTIONS SHOWN ON THE INTERPORT OF A SHALL BE CONSTRUED TO APPLY	DRAWINGS ARE INTENDED TO BE Y TO ANY SIMILAR SITUATION ELSE—	THREADED RODS -
WHERE ON THE PROJECT, EXCEPT WHERE A I	DIFFERENT DETAIL IS SHOWN.	THE FABRICATOR SHALL DETAILED ON THE DESIG ELEMENTS SHOWN ON TH
WHERE A DIFFERENT DETAIL IS SHOWN.		SHOP AND ERECTION DR
UNLESS OTHERWISE NOTED, ALL PIPES UNDER SLABS AND FOOTINGS SHALL BE ENCASED IN ON THE STRUCTURAL DRAWINGS. PIPES SHALL ENCASING. NOT ALL PIPING SHOWN ON STRUC PROCESS MECHANICAL, HVAC AND PLUMBING	R SOIL SUPPORTED STRUCTURAL REINFORCED CONCRETE AS SHOWN BE PRESSURE TESTED BEFORE CTURAL DRAWINGS. REFER TO CIVIL, DRAWINGS FOR PIPING SIZE AND	WELDED CONNECTIONS S WELDING CODE REQUIRE
	 GN LOADS: VE LOADS: UNRESTRICTED VEHICULAR ACCESS DOF SNOW LOAD: GROUND SNOW LOAD, Pa SNOW EXPOSURE FACTOR, Ce SNOW LOAD IMPORTANCE FACTOR, Is THERMAL FACTOR, Ct IND LOADS: RISK CATEGORY ULTIMATE DESIGN WIND SPEED NOMINAL DESIGN WIND SPEED NOMINAL DESIGN WIND SPEED NOMINAL DESIGN WIND SPEED NOMPONENTS AND CLADDING INTERNAL PRESSURE COEFFICIENT ARTHQUAKE: SEISMIC DESIGN CATEGORY SEISMIC DESIGN CATEGORY SEISMIC DESIGN CATEGORY SEISMIC DESIGN CATEGORY SEISMIC IMPORTANCE FACTOR, I MAPPED SPECTRAL RESPONSE ACC, Sa MAPPED SPECTRAL RESPONSE ACC, Si SPECTRAL RESPONSE COEFFICIENT, Spi DINCRETE 28-DAY STRENGTH: PIPE ENCASEMENT PRESTRESSED ELEMENTS DUNDATIONS: ALLOWABLE BEARING PRESSURE FOR SPREISUBSURFACE PREPARED AS PER SPECIFICA ENERAL CONDITIONS: ALLOWABLE BEARING PRESSURE FOR SPREISUBSURFACE PREPARED AS PER SPECIFICA ENERAL CONDITIONS: ALL STRUCTURAL DRAWINGS SHALL BE USED ARCHITECTURAL, HVAC, PLUMBING, MECHANICA DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL REVIEW AND VERIFY AND REVIEW ALL FIELD CONDITIONS THAT MAY FACILITY, SHOULD DISCREPANCIES APPEAR, TH ENGINEER IN WRITING TO OBTAIN ENGINEER'S WITH THE WORK. FOR ALL ITEMS EMBEDDED IN OR PASSED TH SHALL INITIALLY REFER TO MECHANICAL HEAT TYPE, SIZE, LOCATION AND SPECIAL INSTALLAT TYPE, SIZE, LOCATION AND SPECIAL INSTALLAT TYPE, SIZE, LOCATION AND SPECIAL INSTALLAT TYPE, SIZE, LOCATION OF EQUIPMENT PADS AND EQUIPMENT MANUFACTURER'S REQUIREMENTS. AND EQUIPMENT THAT MAY INDUCE VIBRATION. ALL DETAILS AND SECTIONS SHOWN ON THE LITYPICAL AND SHALL BE CONSTRUED TO APPL'WHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN. UNIESS OTHERWISE NOTED, ALL PIPES UNDER SHAL	NILLANDS: - UNRESTRCTED VEHICULAR ACCESS 300 PSF OR HS20 OPF SNOW LOAD: - - OROLND SNOW LOAD, P., 10 PSF - - SNOW EXPOSURE FACTOR, Q. 1.0 - - SNOW LOAD: - - SNOW LOAD: MPORTANCE FACTOR, Q. 1.0 - - THERMAL-PACTOR, C. 1.0 - - INDO LOADS: - - RISK CATEGORY III - UNITMATE DESIGN WIND SPEED 130 MPH - MOMINAL DESIGN WIND SPEED 130 MPH - WITERNAL PRESSURE COEFFICIENT NA - SEISMIC MEROTARIE COEFFICIENT NA - SEISMIC DESIGN CATEGORY C - SEISMIC MEROTARIE FACTOR, I 1.25 - MAPPED SPECTRAL, RESPONSE ACC, S 0.221 - MAPPED SPECTRAL, RESPONSE ACC, S 0.224 - SPECTRAL RESPONSE COEFFICIENT, Sv 0.154 ONCRETE 28-DAY STRENCTH: - - PRESTRCSEDE LEMENTS 5000 PSI JUNDATIONS: - - ALLOWABLE BEARING PRESSURE FOR S

REMARKS

DRWN CHKD

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GENERAL NOTES

RIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH REQUIREMENTS.

CRETE SHALL BE AIR-ENTRAINED UNLESS OTHERWISE NOTED. EDUCING AGENT SHALL BE IN ACCORDANCE WITH ASTM C494.

CRETE SURFACES EXPOSED TO AIR, UNLESS OTHERWISE NOTED IN ATIONS, SHALL BE TREATED WITH AN APPROPRIATE CURING COMPOUND AS CEMENT FINISHING IS COMPLETED OR FORMS ARE REMOVED.

)SED CORNERS OF CONCRETE SHALL HAVE A MINIMUM CHAMFER OF $rac{34}{4}$ " OTHERWISE NOTED.

TRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR THE LOCATION OF CTION JOINTS THAT ARE NOT SHOWN ON THE DRAWING.

G STEEL:

CEMENT SHALL CONFORM TO ASTM A615, GRADE 60 REQUIREMENTS.

ESSORIES SHALL BE IN CONFORMANCE WITH ACI 315 REQUIREMENTS. CING STEEL SHALL HAVE THE FOLLOWING CLEAR COVER UNLESS OTHER-

NCRETE CAST AGAINST EARTH	3"
RMED SURFACES IN CONTACT WITH SOIL, WAGE, WATER OR EXPOSED TO WEATHER	2"
RMED SURFACES NOT EXPOSED TO WEATHER OR CONTACT WITH SOIL:	
SLABS, WALLS AND JOISTS BEAMS AND COLUMNS	1" 1½"

CES SHALL BE AS SHOWN ON THE DRAWINGS. FOR LAP SPLICES NOT ON THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN ENGINEER'S

TRACTOR SHALL PREPARE PLACING DRAWINGS AND SCHEDULES IN IANCE WITH ACI 315 REQUIREMENTS.

RESTRESSED CONSTRUCTION:

CAST PRESTRESSED MEMBERS SHALL BE DESIGNED BY A REGISTERED IONAL ENGINEER FOR THE SUPERIMPOSED LOADS SHOWN ON THE DRAWINGS ORMANCE WITH THE REQUIREMENTS OF APPLICABLE SPECIFICATIONS. NT LOADS OR OTHER LOADING SUCH AS A BRIDGE CRANE SUPPORT LOADS CONSIDERED AS REQUIRED.

CONSIDERATION:

RES WERE DESIGNED TO BE NON-BUOYANT AFTER THE STRUCTURE IS INTO SERVICE. THEREFORE, THE STRUCTURE MAY BE BUOYANT DURING ICTION. THE GENERAL CONTRACTOR SHALL PROTECT ALL STRUCTURES D EXISTING) FROM FLOATATION DURING CONSTRUCTION, REGARDLESS OF VATER LEVELS, UNTIL STRUCTURES ARE PLACED IN OPERATION.

STEEL:

FABRICATION, ERECTION MATERIALS AND WORKMANSHIP SHALL BE IN NCE WITH THE LATEST AISC SPECIFICATIONS AND DESIGN DRAWINGS.

5 –	ASTM	A992
HP SHAPES –	ASTM	A36
S AND ANGLES -	ASTM	A36
IARE, RECTANGULAR AND ROUND) -	ASTM	A500
	ASTM	A36
ENGTH BOLTS -	ASTM	A325
CONTROL BOLTS -	ASTM	F185
	ASTM	A563
) STEEL WASHER –	ASTM	F436
RODS –	ASTM	F155
RODS -	ASTM	A36

RICATOR SHALL DESIGN AND DETAIL ALL PARTS OF CONNECTIONS NOT FULLY ON THE DESIGN DRAWINGS. THE NUMBER OF BOLTS AND OTHER SIMILAR SHOWN ON THE DRAWING ARE PICTORIAL ONLY.

ND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST AWS STRUCTURAL CODE REQUIREMENTS. ELECTRODES SHALL BE E-70XX.

STRUCTURAL ALUMINUM:

DESIGN, FABRICATION, ERECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST "ALUMINUM DESIGN MANUAL" (ADM) SPECIFICATIONS AND DESIGN DRAWINGS.

ALL STRUCTURAL ALUMINUM:

ALUMINUM	EXTRUDED PIPE -	ASTM	B429, ALLOY 6063-T	6
ALUMINUM	EXTRUDED SHAPE –	ASTM	B221, ALLOY 6061-T	6
ALUMINUM	SHEET AND PLATE –	ASTM	B209, ALLOY 6061-T	6
ALUMINUM	ALLOY ROLLED THREAD PLATE -	ASTM	B209, ALLOY 6061-T	6
ALUMINUM	CASTING -	ASTM	B26/B36M, ALLOY 44	-3.0-F

SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST

AWS D1.2/D1.2M "STRUCTURAL WELDING CODE - ALUMINUM". WHERE ALUMINUM CONTACTS A DISSIMILAR METAL, APPLY TO THE DISSIMILAR METAL A HEAVY BRUSH COAT OF ZINC-CHROMATE PRIMER FOLLOWED BY TWO COATS OF ALUMINUM METAL PAINT.

WHERE ALUMINUM CONTACTS MASONRY OR CONCRETE, APPLY A HEAVY COAT OF BITUMASTIC OR EPOXY PAINT.

CONCRETE CRACK REPAIR:

CRACKS ON HORIZONTAL SURFACES SHALL BE REPAIRED BY GRAVITY FEE CRACK SEALANT INTO CRACKS PER MANUFACTURER'S RECOMMENDATIONS CRACKS ARE LESS THAN $\frac{1}{16}$ " IN THICKNESS THEY SHALL BE PRESSURE I CRACKS ON VERTICAL SURFACES SHALL BE REPAIRED BY PRESSURE INJE CRACK SEALANT THROUGH VALVES SEALED TO SURFACE WITH CRACK REF

EPOXY ADHESIVE PER MANUFACTURER'S RECOMMENDATIONS.

SURFACE REPAIR:

FOR AREAS IN NEED OF REPAIR UP TO $1\frac{1}{2}^{n}$ THICK, REPAIRS SHALL BE ACCOMPLISHED USING A CEMENTITIOUS STRUCTURAL REPAIR MORTAR WITH AN NTEGRAL CORROSION INHIBITOR WHICH IS CAPABLE OF APPLICATION THICKNESS UP TO $1\frac{1}{2}$ " IN A SINGLE APPLICATION. CEMENTITIOUS STRUCTURAL REPAIR MORTAR UP TO 1¹/₂" THICK SHALL BE EMACO S88 CI BY BASF; SIKATOP 123 PLUS BY SIKA CORPORATION OR PROFESSIONAL APPROVED EQUAL.

FOR AREAS IN NEED OF REPAIR GREATER THAN 1¹/₂" BUT LESS THAN 3" THICK, REPAIRS SHALL BE ACCOMPLISHED USING A CEMENTITIOUS STRUCTURAL REPAIR MORTAR, WITH AN INTEGRAL CORROSION INHIBITOR AND CAPABLE OF AN APPLICATION THICKNESS UP TO 3" IN A SINGLE APPLICATION. CEMENTITIOUS STRUCTURAL REPAIR MORTAR BETWEEN $1\frac{1}{2}$ " AND 3" THICK SHALL BE EMACO S66 CI BY BASF; SIKATOP 126 PLUS BY SIKA CORPORATION OR PROFESSIONAL APPROVED EQUAL.

FOR AREAS IN NEED OF REPAIR GREATER THAN 3" THICK, REPAIRS SHALL BE ACCOMPLISHED USING A NON-SAG, CEMENTITIOUS STRUCTURAL REPAIR MORTAR WITH A CORROSION INHIBITOR CAPABLE OF VERTICAL SURFACE APPLICATION THICKNESS GREATER THAN 3" IN A SINGLE APPLICATION. CEMENTITIOUS STRUCTURAL REPAIR MORTAR MORE THAN 3" THICK SHALL BE EMACO S77 CI BY BASF; SIKATOP 111 PLUS BY SIKA CORPORATION OR PROFESSIONAL APPROVED EQUAL.

THE CONTRACTOR SHALL FOLLOW ICRI TECHNICAL GUIDELINE NO. 03730 RECOMMENDATIONS FOR SURFACE PREPARATION OF DETERIORATED CONCRETE.

THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATION FOR BONDING AGENT AND ADDITIONAL WIRE MESH REINFORCING TO BE INSTALLED WITHIN THE REPAIR.

THE CONTRACTOR SHALL CONSULT THE MANUFACTURER FOR RECOMMENDATIONS TO INSURE COMPATIBILITY BETWEEN EACH STRUCTURAL REPAIR MORTAR AND THE LINING SYSTEM.

ONE HUNDRED PERCENT EPOXY GROUT MAY BE USED FOR MINOR REPAIRS.

ABBREVIATIONS:

L LDG OT C J MU ONC ONST JT ONT IA WG F J L W F TG	ALUMINUM BUILDING BOTTOM CENTER TO (CONTROL JOI CONCRETE CONSTRUCTIC CONSTRUCTIC CONTINUOUS DIAMETER DRAWING EACH FACE EXPANSION J ELEVATION EACH WAY FAR FACE FOOTING
F	FAR FACE
TG	FOOTING
ORIZ	HORIZONTAL
P	HIGH POINT
)	
F	LUW PUINT

MAXIMUM

IUM	MIN
NG	MISC
M	NF
R TO CENTER	NTS
OL JOINT	OC
ETE MASONRY UNIT	PCJ
ETE	PL
RUCTION JOINT	PLF
IUOUS	PROJ
ER	PSF
1G	PSI
FACE	REINF
SION JOINT	SPECS
ION	SS
WAY	STD
ACE	T&B
G	T/STRUCTURF
	TYP
POINT	UON
DIAMETER	VERT
OINT	WSTP
IM	W/W/F
ואו ע	** ** 1

	MINIMUM MISCELLA	NEOU	S
	NEAR FA	CE Scalf	-
	ON CENT	ER	-
	PARTIAL	CONT	RACTIO
	PLATE POUNDS PROJECTI		LINEAF
	POUNDS	PER	SQUAF SQUAF
	REINFORG		1T
	SPECIFIC/	ation: S Ste	S FFI
	STANDARI	D	
_	TOP AND	BOT	
_	TYPICAL	21400	JURE
	UNLESS	OTHE	RWISE
	VERTICAL	סר	
	WELDED	WIRE	FABRI

<u>NOTE:</u>

THESE ABBREVIATIONS ARE FOR USE ON STRUCTURAL DRAWINGS ONLY.

P. SCHIAVO

J. BOGGS

D. NEAMTU

FEBRUARY 2022

J. BOGGS

HEET CHK'D BY:

ROSS CHK'D B

PROVED

PUBLIC WORKS COMMISSION OF FAYETTEVILLE DEMOLITION AND DECOMMISSIONING OF FORMER WTP AT GLENVILLE LAKE DAM (CUMBE-038) FAYETTEVILLE, NC

l	G		\H
	EARTH FILL	LEGEND & SYMBOLS	
	UNDISTURBED EARTH		
	CONCRETE MASONRY		
	STEEL		
	STRUCTURAL FILL		

ALUMINUM GRANULAR FILL

SAND

GRATING FLOWABLE FILL / GROUT

DEMOLITION

EDING
. IF
NJECTED.
ECTING PAIR

ON JOINT AR FOOT ARE FOOT ARE INCH

NOTED

ROJECT NO. 6384-23113 FILE NAME: SOO1STNT.DW

> SHEET NO. S-1

BID SET

STANDARD NOTES

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B

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DEMOLITION AND DECOMMISSIONING OF FORMER WTP

VIF

E/

- CENTER OF THROUGH-BOLT AND SPACED 2'-0" ON-CENTER TO
- 3. AFTER INJECTION AND CONCRETE REPAIRS, INSTALL STAINLESS STEEL STRAPS AT EACH WALL CORNER AS SHOWN IN PLAN PER

F7	$\sum C$	
$^{\prime}$	\vee	

7	イ	1	/

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– THROUGH–BOLT ASSEMBLY REQUIRED EACH SIDE OF CRACK

A CAR SEAL 036223

PROJECT NO. 6384-23113 FILE NAME: SO05ULPL.DW

SHEET NO.

S-5

BID SET

UPPER LEVEL MODIFICATION PLAN

NOTES:

1. THROUGH-BOLTS SHALL BE INSTALLED IN EXISTING CONCRETE WITH EPOXY ADHESIVE.

LOWER LEVEL
MODIFICATION PLAN

				FOR THE G	ATE AND OPERAT	OR.
					DESIGNED BY: DRAWN BY: SHEET CHK'D BY:	J. ROSEN P. SCH J. B(
REV.	DATE	DRWN	СНКД	REMARKS	CROSS CHK'D BY: APPROVED BY: DATE:	D. NE/ J. B(FEBRUARY

Ĭ													_
ARE					<u>SECT</u>	ION							
HEREIN,													
ORATED											DI	MENSIONS	S IN IN
CE, INCORPO					SLUICE GATE STEM DIA	Bolt Dia	A	В	С	D	E	F	G
RVIC					1	3⁄4	16	16	15	21/4	2 ¹ 3⁄16	93⁄8	33/1
S					11/2	11/8	17	16	16	2¾	27⁄8	101/4	35/
ONA					2	11/2	18	16	17	31/2	27⁄8	1 11⁄4	41/2
ESSI					21/2	13⁄4	21	18	18	4	2 ¹⁵ ⁄16	121/8	4%
ROF					3	2	25	18	19	4¾	2 ¹⁵ ⁄16	131/8	51/1
д. ≻					31/2	21⁄4	29	18	201⁄2	51⁄4	31/8	1 41⁄4	53/
					4	2½	33	18	22	5¾	35/16	153⁄8	5 ¹ / ₁
IESE DOCUMENTS AND DESIGNS F								<u>NOTE</u> 1. 2 3. 1	ES: SPECIAL A DRAWING (ALL PLATE PRECAST (FOR THE (DDITIONAL DNLY. S SHALL	DETAI	RICTION R ESS STEE	
DOCUMENTS: TH										— DESIGNED — DRAWN B — SHEET CH	BY: Y: łK'D BY:	J. ROSENT P. SCH J. BO	THAL IAVO IGGS
REUSE OF	REV. NO.	DATE	DRWN	СНКД	REMA	RKS				APPROVEI DATE:	нк'D BY:) BY: FE	J. BO	2022

PIPE ENCASEMENT NOTES: 1. ALL PIPE SHALL BE PRESSURE TESTED BEFORE CONCRETE PLACEMENT. 2. ALL BELOW GRADE PIPES SHALL BE SUPPORTED ON CONCRETE BLOCKS PRIOR TO CASTING OF CONCRETE BEDDING. SIZE AND SPACING OF CONCRETE BLOCK

LAP PIPE ENCASEMENT DETAIL NTS

12 ____.4 Δ -1'-8" MINIMUM

-#4 (TYP)

11/11/2021 9:41:43 AM n:PW_PL1\6384\231131

 \overline{A}

#4@12"—

L3x3x3 ALUMINUM

WITH $\frac{1}{2}$ " ϕ SS CONCRETE

 $\nabla D Z$

KE/

FAYETTEVILLE, NC

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	A	B			7 E I	F	G	H
ONE LINE OR CONTROL DIAGRAM	PLAN	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL DESCRIPTION	ABBREVIATI	ONS (CONTINUED) 1. IN N TH	GENERAL CONDUIT ROUTING FOR EQUIPMENT D DEVICES IS NOT SHOWN ON THE PLANS. E CONTRACTOR SHALL BE RESPONSIBLE FOR
		LOW VOLTAGE AIR OR MOLDED CASE	A×~3	INCANDESCENT, COMPACT FLUORESCENT OR H.I.D. TYPE LIGHTING FIXTURE	\$a SINGLE POLE SWITCH "a" INDICATES FIXTURES CONTROLLED.	EM EMERGEN ENCL ENCLOSU	ICY RO IRE OR ENCLOSED DIA	UTING ALL CONDUITS WHICH SHALL INCLUDE NDUITS SHOWN ON ONE-LINE AND RISER AGRAMS AND HOME-RUNS SHOWN ON PLAN
	СВ	CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED.		"b" – CONTROLLED BY SWITCH "b" "3" – CIRCUIT NUMBER	\mathbf{s}_{a}^{2} double pole switch "a" indicates fixtures controlled.	EQUIP EQUIPME EWC ELECTRIC EWH ELECTRIC	WATER COOLER MA	AWINGS. REFER TO SPECIFICATIONS FOR TERIALS AND INSTALLATION REQUIREMENTS.
		NON-FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE	A3_b	FLUORESCENT TYPE LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE	\$ ³ Three way switch "c" indicates fixtures controlled.	EX EXISTING FO FIBER O	PTIC 2. TH WIF	- WIRING DIAGRAMS, QUANTITY AND SIZE OF RES AND CONDUITS REPRESENT A SUGGESTED RANGEMENT BASED UPON SELECTED
/*		* AMPERE RATING NOTED IF OTHER THAN 30A (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)		WALL MOUNTED INCANDESCENT, COMPACT FLUORESCENT OR H.I.D.	\$4 FOUR WAY SWITCH "a" INDICATES FIXTURES CONTROLLED.	GCB GENERAT	OR CIRCUIT BREAKER EQ OR CONTROL PANEL CO	UIPMENT. MODIFICATIONS ACCEPTABLE TO E ENGINEER MAY BE MADE BY THE
		FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3	$\frac{1}{A}\chi^{3}$	TYPE LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE	\$a DIMMER SWITCH "a" INDICATES FIXTURES CONTROLLED	GEN GENERAT G, GND GROUND		TUALLY PURCHASED. THE BASIC SEQUENCE D METHOD OF CONTROL MUST BE
	 	 ★ AMPERE RATING AND FUSE SIZE AS NOTED ★ AMPERE RATING NOTED IF OTHER THAN 30A FUSE RATING 	OR A	CROSS HATCH INDICATES LIGHTING FIXTURE THAT IS UNSWITCHED AND SHALL REMAIN ON AT ALL TIMES. NOTATIONS SAME AS ABOVE.	C 3 LIGHTING CONTACTOR WITH NUMBER OF POLES AS INDICATED	GRS GALVANIZ HACR HEATING	FAULT INTERROPTER AN ZED RIGID STEEL AN & AIR CONDITIONING 3. SW	D/OR SPECIFICATIONS.
↓ ▼ ↓		(DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)	A X 3			HH HANDHO HT HEIGHT	E CO BE E	MPARTMENT DESIGNATIONS AS INDICTED LOW: BLANK: NOT INTENDED FOR USE. PLATE
-\x-	P	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD HEATER, 1 POLE UNLESS OTHERWISE NOTED "P" INDICATES WITH PILOT LIGHT "2"	OR 3	SHADED AREA INDICATES LIGHTING FIXTURE THAT IS EQUIPPED WITH EMERGENCY BACKUP POWER SOURCE. NOTATIONS SAME AS ABOVE.	INDICATES ALL LIGHTING FIXTURES WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE TYPE "A" LINESS	HID HIGH IN HP HORSEPO	ENSITY DISCHARGE	ONLY SPACE: EQUIPPED WITH REQUIRED BUS AND HARDWARE FOR THE FUTURE
	2	INDICATES TWO POLE (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)	A 3	POLE MOUNTED AREA H.I.D. TYPE LIGHTING FIXTURE, NOTATIONS SAME	OTHERWISE NOTED. SEE LIGHTING FIXTURE SCHEDULE FOR TYPES	ID IDENTIFIC	ATION ENT	ADDITION OF BREAKERS AND/OR STARTERS WITHIN THE SIZE AND RANGE SHOWN
480		TRANSFORMER, RATINGS AND CONNECTIONS AS		AS ABOVE	SHOWN ON PLAN PER ACTUAL PANEL DIMENSIONS	K KILO (PI kcmil 1000 CI	REFIX) S RCULAR MILS	SPARE: CONTAINS A COMPLETELY INSTALLED BREAKER AND/OR STARTER OF SIZE AND TYPE
	Т	SINGLE LINE DIAGRAMS, ALL DRY TYPE TRANSFORMERS SERVICING ADMINISTRATIVE AND LABORATORY SPACES SHALL HAVE A K FACTOR		POLE MOUNTED ROADWAY H.I.D. TYPE LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE	POWER PANELBOARD (PP-#) OR DISTRIBUTION PANELBOARD (DP-#) SHOWN ON PLAN PER ACTUAL PANEL DIMENSIONS	KVA KILOVOL KW KILOWAT	AMPERES S ARRESTER	INDICATED FOR FUTURE USE.
<u>_</u> 3P, 4W		OF 4. ISOLATION TRANSFORMERS SHALL HAVE A K-20 RATING		EMERGENCY LIGHTING BATTERY UNIT WITH TWO LAMP HEADS "EM" – FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE) ".3" – SUPERVISORY CIRCUIT	LIGHTING CONTACTOR PANELBOARD (LCP-#) SHOWN ON PLAN PER ACTUAL PANEL DIMENSIONS	LTG LIGHTING LP LIGHTING	4. INI CIF PANEL SIZ	ERPRETATION OF ELECTRICAL DRAWINGS: ?CUIT IDENTIFICATION, ROUTING, AND ZES OF CONDUITS AND WIRES ARE IOWNLONE THE FOLLOWING DRAWINGS:
*		CURRENT TRANSFORMER * QUANTITY A = PRIMARY AMPERES		* - FIXTURE TAG #	DUPLEX RECEPTACLE, 20A, 120V, 2P, 3W * GFCI – GROUND FAULT CIRCUIT INTERRUPTER TYPE	MAX MAXIMUN MCB MAIN CIF	CUIT BREAKER A. PO	WER ONE LINE DIAGRAMS: POWER, CONTRO
* V TO 120		POTENTIAL TRANSFORMER * QUANTITY		CEILING MOUNTED EXIT SIGN, NOTATIONS SAME AS ABOVE. WHEN	4 HEATHERPROOF T - TRANSIENT VOLTAGE SURGE SUPPRESSOR IC - ISOLATED GROUND 4 - CIRCUIT NUMBER	MCC MOTOR MCP MOTOR	CONTROL CENTER ELE CIRCUIT PROTECTOR UT	ECTRICAL DISTRIBUTION EQUIPMENT AND ILIZATION EQUIPMENT POWERED FROM
		V = PRIMARY VOLTAGE UNIT HEATER - ELECTRIC HEATING COIL AND FAN	A 3	USED, ARROW INDICATES DIRECTION OF EGRESS. FILLED QUADRANT REPRESENTS FACE SIDE OF SIGN. (DOUBLE FACE DOUBLE CHEVRONS SHOWN)	DUPLEX RECEPTACLE, 20A, 120V, 2P, 3W MOUNTED ABOVE COUNTER-TOP OR 42" AFF	MDP MAIN DIS MFR MANUFAC MH MANHOLI	TURER CE	NTERS AND MAJOR POWER DISTRIBUTION NELBOARDS ARE TYPICALLY SHOWN ON THE
		# – RATING	$\overset{A}{\vdash} \bigotimes^{3}$	WALL MOUNTED EXIT SIGN, NOTATIONS SAME AS ABOVE. WHEN USED, ARROW INDICATES DIRECTION OF EGRESS. FILLED QUADRANT	* NOTATIONS SAME AS ABOVE	MIN MINIMUM MLO MAIN LU	GS ONLY DE	NTIFIED ON THE ONE LINE DIAGRAMS ARE: RCUIT IDENTIFICATION, CIRCUIT ORIGIN AND STINATION, CONDUIT SIZE, WIRE SIZE AND
		UNIT HEATER – GAS FIRED, STEAM OR WATER HEATING COIL AND FAN		REPRESENTS FACE SIDE OF SIGN. GROUND SYSTEM GRID OR LOOP, 36" BELOW FINISHED GRADE UNLESS	P C "C" - DATA INPUT/OUTPUT CABLE OUTLET	MTD MOUNTER MTS MANUAL	C SWITCH QU AU TRANSFER SWITCH CO	ANTITY FOR COMPLETE CIRCUIT LENGTH, ANE XILIARY DEVICES ASSOCIATED WITH THE NTROL/PROTECTION OF THE POWERED
5	M	MOTOR, NUMERAL INDICATES HORSEPOWER		EXOTHERMIC WELD CONNECTION	TEMPERATURE SWITCH OR THERMOSTAT	N NEUTRAL NC NORMALI	Y CLOSED	JIPMENT, AND SIZE OF THE GROUNDING ECTRODE CONDUCTORS.
T#1		UTILIZED IN CONJUNCTION WITH OTHER CONTROL SCHEMATIC SYMBOLS TO DEPICT THE PHYSICAL LOCATION OF THE DEVICE	•	3/4" x 10'-0" GROUND ROD. UNLESS SPECIFIED OTHERWISE.		NTS NOT TO OH OVERHEA	B. INS SCALE DIA D DA	TRUMENTATION AND CONTROL RISER GRAMS: POWER, CONTROL, SIGNAL AND TA HIGHWAY WIRING REQUIREMENTS FOR
		# REPRESENTS LOCATION SEE LOCATION LEGEND ON DRAWING	$\overline{\bigcirc}$	GROUND ROD TEST WELL STATION (SEE DETAIL SHEET FOR REQUIREMENTS)	ABBREVIATIONS	OL OVERLOA PB PULL BC PCP PUMP C	D INS X CO INS	TRUMENTS AND CONTROL DEVICES NTROLLED/MONITORED FROM STRUMENTATION AND CONTROL PANELS SUCH
		CONDUCTORS OR CONDUITS CROSSING PATHS BUT NOT CONNECTED		INDICATED EQUIPMENT AND MATERIALS TO BE DEMOLISHED	A AMPS AC ALTERNATING CURRENT	PH PHASE PMH POWER	ANHOLE AS	RTUS, PLCS, TERMINAL CABINETS, AND MOTE I/O PANELS ARE TYPICALLY SHOWN O E INSTRUMENTATION AND CONTROL ONE LINE
		CONDUCTORS ELECTRICALLY CONNECTED		HOME RUN TO DESIGNATED FOUIPMENT BRANCH CIRCUIT CONDUIT	AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE	PNL PANEL C PR PAIR PRI PRIMARY	R PANELBOARD DIA TH IDE	E ONE LINE DIAGRAMS ARE: CIRCUIT INTIFICATION, CIRCUIT ORIGIN AND
	~ * - ##) FIELD INSTRUMENT, TAG NO. AS INDICATED		WITH 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR UNLESS OTHERWISE NOTED. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. FOR MINIMUM SIZE CONDUIT	AIC AMPERE INTERRUPTING CAPACITY AMP AMPERE	PT POTENTIA PVC POLYVIN	L TRANSFORMER QU L CHLORIDE LEI	ANTITY AND TYPE FOR COMPLETE CIRCUIT NGTH, AND AUXILIARY DEVICES ASSOCIATED
		* INDICATES INSTRUMENT TYPE DEFINED ON LOOP SHEETS OR P & ID ## INDICATES LOOP NO.		PERMITTED REFER TO THE SPECIFICATIONS.	ATS AUTOMATIC TRANSFER SWITCH AUTO AUTOMATIC AUX AUXII IARY	RECPT RECEPTA REQD REQUIRE QTY QUANTIT	CLE PO	WERED EQUIPMENT.
o ^{LA} o ı		LIGHTNING ARRESTER		CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.	AWGAMERICAN WIRE GAUGEBKRBREAKER	SA SURGE / SEC SECOND	RRESTER OF S OR SECONDARY FLC	CIRCUITS LOCATED WITHIN STRUCTURES, JOR PLANS SHOW THE LOCATION OF ECTRICAL DISTRIBUTION EQUIPMENT, CONTROL
		GROUND OR GROUND ROD		CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO	BLDG BUILDING C CONDUIT CB CIRCUIT BREAKER	SH SHIELDE SHH SIGNAL SPD SURGE I	ANDHOLE PAILER PAIL PROTECTIVE DEVICE AN	NELS, UTILIZATION EQUIPMENT, INSTRUMENTS CILLARY EQUIPMENT AND DEVICES AND THE ITICIPATED PENETRATION LOCATIONS WHERE
=			*-	'X' INDICATES SPLICE AS APPROVED BY ENGINEER	CGD COMBUSTIBLE GAS DETECTOR CKT CIRCUIT	SS STAINLES SV SOLENOI	IS STEEL CO D VALVE HO MIS	NDUITS EXIT/ENTER THE STRUCTURE. MERUNS MAY ALSO BE SHOWN FROM SCELLANEOUS EQUIPMENT NOT SHOWN ON A
30A ——• D		FUSE, AMPERE RATING AS NOTED		CONCRETE ENCASED DUCTBANK. WIDTH VARIES, SEE DUCTBANK SECTION/DETAILS FOR REQUIREMENTS AND WIDTH	CLB CURRENT LIMITING BREAKER CLF CURRENT LIMITING FUSE CP CONTROL PANEL	SWBD SWITCHB SWGR SWITCHG	OARD EAR D. SIT	E LINE OR RISER DIAGRAM. TE PLANS: FOR DETERMINING THE LENGTH
	HTR	STRIP HEATER OR HEATING ELEMENT		CONDUIT STUBBED OUT AND CAPPED	CPT CONTROL POWER TRANSFORMER CR CONTROL RELAY	TC TIME TO TEL TELEPHO	CLOSE OR TRAY CABLE OF NE TO OPEN TH	CIRCUITS EXTERIOR TO STRUCTURES AND IDENTIFY THE SPECIFIC REQUIREMENTS OF E UNDERGROUND CONDUITS OR DUCT BANK
DM	DM	DAMPER MOTOR	(2) 3"C.,	DENOTES A QUANTITY OF TWO (2) 3-INCH CONDUITS EACH CONTAINING THREE NO. 3/0 AWG CONDUCTORS AND 1 NO. 2 AWG	CT CURRENT TRANSFORMER CU COPPER	TS TYP	SHIELDED OR THERMAL	E FLANS SHOW THE GENERAL ROUTING OF DERGROUND CONDUITS AND DUCT BANKS TH SECTIONS INDICATING THE CONDUIT SIZE, RANGEMENT AND CIRCUIT ROUTING
		CONTACT, NORMALLY OPEN (NO)	3#3/0, 1#2	G GROUND CONDUCTOR. DENOTES A QUANTITY OF TWO INSTRUMENT CABLES. EACH CABLE TO	CWS CONDUIT WALL SEAL DC DIRECT CURRENT DIA DIAMETER	UG UNDERGI UPS UNINTER	ROUND RUPTIBLE POWER SUPPLY	TE THAT CONDUIT SIZE WITHIN STRUCTURE
		CONTACT, NORMALLY CLOSED (NC)	2-2/C#16 SH	CONSIST OF TWO NO. 16 AWG CONDUCTORS TWISTED TOGETHER AND COVERED WITH A METALLIC SHIELD AND AN OVERALL PROTECTIVE JACKET. REFER TO THE SPECIFICATIONS FOR THE EXACT CABLE TO	DMU DIGITAL METERING UNIT DN DOWN	V VOLTS VA VOLT AN VED VARIARI	PS BAI	DERGROUND SIZE IS INDICATED ON DUCT NK SECTIONS.
		OVERLOAD RELAY HEATER		SAME AS ABOVE EXCEPT CABLE TO CONSIST OF THREE NO. 16 AWG	EC EMPTY CONDUIT ELEC ELECTRICAL	W WATTS, WP WEATHER	VIDTH, WITH, WIRE	NOTE RD LEGEND
			2-3/C#16 SH	CONDUCTORS TWISTED, SHIELDED AND COVERED WITH AN OVERALL PROTECTIVE JACKET. REFER TO THE SPECIFICATIONS FOR THE EXACT CABLE TO BE PROVIDED.	A SHEET NO. WHERE I IS DRAWN	SHEET NO. WHERE SECTION	RMER SOME SYMBOLS	MAY NOT DRAWINGS.
		PULL BOX	(3) 4"C.	THREE 4-INCH CONDUITS	SYMBOL WHERE THERE IS A DETAIL SYMBOL WHERE THERE	IS A SECTION		
		TERMINAL CABINET		FLEXIBLE METAL CONDUIT "WHIP" (3/4"C., 2#12, 1#12G UNLESS OTHERWISE NOTED) FOR LIQUID TIGHT MOTOR CONNECTIONS	DETAIL A SECTION 1			IRE
			├───×───	'X' INDICATES CONDUIT SEAL FITTING IN OTHER THAN CODE REQUIRED	1/4" = 1'-0" E-3 WHERE THERE IS A DETAIL 1/4" = 1'-0" E-3	3 SHEET NO. WHERE SECTION IS TAKEN	WORK WORK	SION
		INDICATES LIMITS OF ELECTRICAL EQUIPMENT OR WIRING ENCLOSURE		INDICATES MOTOR STARTER AND/OR MOTOR CONTROL EQUIPMENT	SYMBOL WHERE DETAIL IS DRAWN SYMBOL WHERE SECTION DFTΔII SYMROI STATION	ON IS DRAWN	EXISTING, NEW OR FUTURE CONDITION DES	SIGNATION
			DESIGNED BY: DRAWN BY:	T. ROSCHEN T. ROSCHEN	PUBLIC WORKS COMMISSION OF FAYETTEVILLE			PROJECT NO. 6384-2311 FILE NAME: E001NFLG.D
			SHEET CHK'D B	BY: J. DOUGHNEY BY: D. NEAMTU J. DOUGHNEY J. DOUGHNEY	DEMOLITION AND DECOMMISSIONING OF FORMER V AT GLENVILLE LAKE DAM (CUMBE-038)	VVIP	ELECTRICAL LEGEND	SHEET NO. F-1
REV. DATE DRWN CHK	KD	REMARKS	APPROVED BY: DATE:	Bit Boost Met Raleigh, NC 27612 FEBRUARY 2022 Tel: (919) 325-3500 NC F-0412 NC F-0412	FAYETTEVILLE. NC			

		PROJECT NO. FILE NAME:	6384–231131 E001NFLG.DWG
C	ELECTRICAL LEGEND	sheet no. E-1	

B

SCOPE OF WORK:

1. PROJECT PROVIDES ELECTRICAL EQUIPMENT RELOCATION AT THE GLENVILLE WATER TREATMENT PLANT AS SHOWN ON THE DRAWINGS AND INCLUDED IN THE SPECIFICATIONS.

GENERAL NOTES:

- 1. ELECTRICAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL LAYOUT OF WORK TO BE INSTALLED UNDER THIS CONTRACT WITHOUT ATTEMPTING TO SHOW ALL DETAILS. FURNISH LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE CONTRACT DOCUMENTS.
- 2. COORDINATE WORK WITH OTHER TRADES AND THE OWNER.
- 3. MAINTAIN EXISTING PROCESS OPERATIONS. POWER INTERRUPTIONS TO ELECTRICAL EQUIPMENT SHALL BE AT OWNER'S CONVENIENCE WITH 72 HOURS MINIMUM NOTICE. EACH INTERRUPTION SHALL HAVE PRIOR WRITTEN APPROVAL.
- 4. FIELD VERIFY EXISTING UNDERGROUND ELECTRICAL CONDUIT, CONCRETE DUCT BANKS, MANHOLES, PULL BOXES, ETC. AND MECHANICAL PIPING. CONTRACTOR SHALL INCLUDE IN BID COSTS ASSOCIATED WITH RELOCATION OR REMOVAL OF UNDERGROUND EQUIPMENT AS REQUIRED BY THIS CONTRACT. USE DUE CARE IN CONGESTED AREAS TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES.
- 5. CONTRACTOR'S WORK SHALL INCLUDE COMPLETE TESTING OF EQUIPMENT AND WIRING INCLUDING MAKING MINOR CORRECTIONS, CHANGES, OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY; SUBSTANDARD WORK WILL BE REJECTED.
- 6. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO MECHANICAL, STRUCTURAL DRAWINGS, AND APPROVED MANUFACTURER'S SHOP DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. EXCEPT WHERE DIMENSIONS ARE SHOWN, LOCATIONS OF EQUIPMENT, FIXTURES, OUTLETS, AND SIMILAR DEVICES ARE APPROXIMATE.
- 7. WORK SHALL COMPLY WITH NEC AND LOCAL CODES.
- 8. DO NOT SPLICE CONDUCTORS EXCEPT AS NOTED.
- 9. POWER AND CONTROL CONDUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR WIRE SIZED PER TABLE 250.122 OF THE NEC (UON).
- 10. COORDINATE SEQUENCE OF CONSTRUCTION WITH CIVIL, MECHANICAL, AND STRUCTURAL DISCIPLINES. PROVIDE TEMPORARY POWER AND CONTROL CIRCUITS AS REQUIRED TO MAINTAIN FACILITY OPERATION. VERIFY EXISTING UTILITIES IN AREA OF CONSTRUCTION. REFER TO CIVIL DRAWINGS FOR ADDITIONAL UNDERGROUND INFORMATION.
- 11. REPAIR, IN ACCORDANCE WITH SPECIFICATIONS, SIDEWALKS, WALLS, ROADWAYS, ETC. DISTURBED BY CONSTRUCTION ACTIVITIES WHETHER OR NOT SHOWN FOR REPAIR/REPAVING ON CIVIL DRAWINGS.
- 12. CONCEAL CONDUITS TO GREATEST EXTENT PRACTICABLE. CONDUITS RUN AT EXISTING STRUCTURES SHALL BE RUN EXPOSED.
- 13. WHERE LOCAL DISCONNECTS AND CONTROL PANELS ARE SHOWN ON PLAN VIEWS, LOCATIONS ARE APPROXIMATE. ADJUST LOCATION AS REQUIRED TO COMPLY WITH NEC ARTICLE 110 FOR WORKING CLEARANCES.
- 14. DO NOT INSTALL MAJOR CONDUIT RUNS THROUGH AREAS DESIGNATED FOR FUTURE STRUCTURES.
- 15. DO NOT SUPPORT CONDUITS FROM HANDRAILS OR GUARDRAILS.
- 16. RUN CONDUITS IN A MANNER THAT DOES NOT CREATE A TRIP HAZARD AND DOES NOT IMPEDE WALKWAYS/PATHS. WHERE THIS IS NOT POSSIBLE, NOTIFY ENGINEER AND PROVIDE ANTI-TRIP COVER OVER CONDUITS IF APPROVED.
- 17. SEE ADDITIONAL NOTES ON ELECTRICAL LEGEND SHEET.
- 18. SIZE ALL JUNCTION BOXES AND PULLBOXES AS REQUIRED PER NEC.

SUBMITTALS:

- 1. SUBMIT SHOP DRAWINGS FOR EQUIPMENT, MATERIALS AND OTHER ITEMS FURNISHED UNDER DIVISION 26.
- 2. SUBMIT OPERATION AND MAINTENANCE MANUALS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
- 3. SUBMIT STARTUP/COMMISSIONING PLANS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
- 4. SUBMIT TESTING AND SERVICE REPORTS FOR EQUIPMENT AND MATERIALS FURNISHED UNDER DIVISION 26.
- 5. SUBMIT TRAINING PLANS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
- SUBMIT RECORD DOCUMENTATION TO ACCURATELY SHOW COMPLETED INSTALLATION. INCLUDE MODIFICATIONS TO CONTRACT DOCUMENTS (ONE LINE POWER DIAGRAMS, EQUIPMENT ELEVATIONS, PANEL SCHEDULES, ELEMENTARY CONTROL DIAGRAMS, RISER DIAGRAMS, PLANS, CONDUIT AND DUCTBANK ROUTING, ETC) ALONG WITH ADDITIONAL DRAWINGS OR SKETCHES CREATED TO CONVEY COMPLETED INSTALLATION.

Image: Matrix S Image: Matrix S Image: Matrix S Image: Matrix S	DESIGNED BY: E. GACHARICH DRAWN BY: L. VANC SHEET CHK'D BY: J. DOUGHNEY CROSS CHK'D BY: D. NEAMTU APPROVED BY: J. DOUGHNEY DATE: FEBRUARY 2022	

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INTERPRETATION OF CONTRACT DOCUMENTS:	SERVICE AN
 IF DURING PERFORMANCE OF WORK, THERE IS A CONFLICT, ERROR, OR DISCREPANCY BETWEEN OR AMONG CONT DOCUMENTS AND LAWS AND REGULATIONS, PROVIDE THE HIGHER PERFORMANCE STANDARD UNLESS OTHERWISE DIRECTED BY ENGINEER. 	RACT 1. ELECTRIC F CONTACT IS COMPANY S
2. PRIORITY OF DOCUMENTS: FIGURED DIMENSIONS GOVERN OVER SCALED DIMENSIONS, DETAILED DRAWINGS GOVERN GENERAL DRAWINGS, LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, CHANGE ORD DRAWINGS SUPERCEDE ORIGINAL CONTRACT DRAWINGS, AND CONTRACT DRAWINGS GOVERN SHOP DRAWINGS.	OVER 2. PAY FOR F DER 3. PAY FEES
 IN GENERAL, DRAWINGS DO NOT SHOW CONDUIT ROUTING. PLAN AND ROUTE CONDUITS IN COMPLIANCE WITH SPECIFICATIONS AND DRAWING DETAILS. COORDINATE INSTALLATION WITH OTHER TRADES AND ACTUAL SUPPLIED EQUIPMENT. 	FOR SUBST 4. POWER COI
4. DUCTBANK ROUTING SHOWN ON ELECTRICAL SITE PLANS IS DIAGRAMMATIC IN NATURE AND MAY NOT INCLUDE INTERFERENCES THAT MAY BE PRESENT.	FURNISHPROVIDEPROVIDE
5. SEE ADDITIONAL NOTES ON ELECTRICAL LEGEND I SHEET.	TERMINATETERMINATEPROVIDE I
	5. CONTRACTO
ENCLOSURE TYPES:	ARRANGEM MATERIALS
PROVIDE THE FOLLOWING NEMA TYPE ELECTRICAL ENCLOSURES, UNLESS OTHERWISE NOTED:	INSTALL FPROVIDE
1. NEMA 1 IN DRY, NON-PROCESS INDOOR LOCATIONS.	EQUIPMEN • PROVIDE
2. NEMA 12 IN "DUST" LOCATIONS SHOWN ON THE DRAWINGS.	 INSTALL M PROVIDE
3. NEMA 4X IN OUTDOOR LOCATIONS, PROCESS AREAS, ROOMS BELOW GRADE INCLUDING BASEMENTS AND BURIED V AND "DAMP" OR "WET" LOCATIONS SHOWN ON THE DRAWINGS.	VAULTS • PROVIDE
4. NEMA 4X IN "CORROSIVE" LOCATIONS SHOWN ON THE DRAWINGS.	
5. NEMA 7 AND LISTED FOR THE SPECIFIC NEC HAZARDOUS AREA CLASSIFICATION AS SHOWN ON THE DRAWINGS.	DEMOLITION
	1. DRAWING P COMPONEN THE CONTF
	2. UNLESS OT
MATERIALS AND EQUIPMENT:	AND/OR P
1. PROVIDE NEW MATERIALS AND EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE.	3. CUT FLUSH
	EAR 4. REPAIR ANI
2. ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC., AND SHALL BE APPROPRIATE UL LISTING MARK OR CLASSIFICATION MARKING. EQUIPMENT, MATERIALS, ETC. UTILIZED NOT BEARING CERTIFICATION SHALL BE FIELD OR FACTORY UL CERTIFIED PRIOR TO EQUIPMENT ACCEPTANCE AND USE.	G A UL 5. MATERIAL A REMOVAL
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3. PROTECT EQUIPMENT FROM MECHANICAL INJURY, OR EXPOSURE TO MOISTURE, CHEMICALS, OR CORROSIVE GASES. DO NOT STORE ELECTRICAL EQUIPMENT OUTDOORS.

4. PROVIDE AND ENERGIZE TEMPORARY SPACE HEATERS IF REQUIRED TO CONTROL MOISTURE DURING STORAGE.

CUTTING AND PATCHING:

1. CUT AND PATCH IN A WORKMANLIKE MANNER AS REQUIRED TO INSTALL ELECTRICAL WORK.

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- 2. CUTTING OF STRUCTURAL MEMBERS SUCH AS JOISTS, BEAMS, GIRDERS OR COLUMNS IS PROHIBITED.
- 3. PATCH SURFACES TO RESTORE TO ORIGINAL INTEGRITY (WATERPROOF OR FIREPROOF AS REQUIRED) AND APPEARANCE.

- 1. WHEN ENGINEERING SERVICES ARE SPECIFIED TO BE PROVIDED BY CONTRACTOR, CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PERFORM THE SERVICES. ENGINEER SHALL BE LICENSED AT THE TIME SERVICES ARE PERFORMED AND LICENSED IN THE STATE IN WHICH PROJECT IS LOCATED. IF THE STATE ISSUES DISCIPLINE SPECIFIC LICENSES, ENGINEER SHALL BE LICENSED IN THE APPLICABLE DISCIPLINE. ENGINEER SHALL BE EXPERIENCED IN THE TYPE OF WORK BEING PERFORMED.
- 2. ENGINEERING WORK SHALL BE DONE ACCORDING TO THE APPLICABLE REGULATIONS FOR PROFESSIONAL ENGINEERS TO INCLUDE SIGNING. SEALING AND DATING DOCUMENTS.

MAJOR ELECTRICAL SEQUENCE OF CONSTRUCTION:

- COORDINATE LENGTH OF DOWNTIME WITH OWNER.
- 3. RELOCATE TRANSFORMER AND ELECTRICAL PANELS. 4. INTERCEPT AND REROUTE PRIMARY CONDUITS TO NEW TRANSFORMER LOCATION.
- 5. RE-PULL PRIMARY CONDUCTORS TO RELOCATED TRANSFORMER.
- 6. INSTALL NEW SECONDARY CONDUCTORS AND CONDUITS.
- 7. RECONNECT EXISTING PANELS, PUMP MOTOR, AND MISCELLANEOUS LOADS.
- 8. PROVIDE TEMPORARY GENERATOR POWER WHERE DEEMED NECESSARY BY OWNER.

PUBLIC WORKS COMMISSION OF FAYETTEVILLE DEMOLITION AND DECOMMISSIONING OF FORMER WTP AT GLENVILLE LAKE DAM (CUMBE-038) FAYETTEVILLE, NC

<u>ND METERING:</u>

- POWER COMPANY SERVING THIS PROJECT IS FAYETTEVILLE PUBLIC WORKS COMMISSION, PWC. POWER COMPANY WESLEY JACOBS, TELEPHONE 910-223-4528, EMAIL WESLEY.JACOBS@FAYPWC.COM. COMPLY WITH POWER STANDARDS.
- FEES AND CHARGES AS REQUIRED FOR TEMPORARY/CONSTRUCTION POWER FOR CONTRACTOR'S USE.
- AND CHARGES FOR PERMANENT SERVICE VIA BID ALLOWANCE AND SUBMIT POWER COMPANY INVOICES TO OWNER TANTIATION.
- MPANY WORK:
- CONDUIT MATERIALS FOR UNDERGROUND SERVICE TO UTILITY TRANSFORMER(S).
- PRIMARY CONDUCTORS (OVERHEAD AND UNDERGROUND) TO UTILITY TRANSFORMER(S). UTILITY TRANSFORMER(S).
- UNDERGROUND PRIMARY CABLES AT THE UTILITY TRANSFORMER(S).
- UNDERGROUND SECONDARY CABLES AT THE UTILITY TRANSFORMER(S). METERING CURRENT TRANSFORMERS (CT'S), METER(S) AND METER WIRING.
- OR WORK:
- MENTS WITH POWER COMPANY TO OBTAIN SERVICE, PAY POWER COMPANY FEES, AND PROVIDE LABOR AND REQUIRED FOR ELECTRICAL SERVICE. PRIMARY UNDERGROUND CONDUITS AT A DEPTH OF 48" TO TOP OF CONDUIT(S).
- SECONDARY UNDERGROUND CONDUITS AND CABLE FROM UTILITY TRANSFORMER(S) TO SERVICE ENTRANCE
- POWER COMPANY APPROVED METERING CURRENT TRANSFORMER (CT) ENCLOSURE. METER BASE ENCLOSURE. EMPTY CONDUIT WITH PULL LINE FROM THE METERING CT ENCLOSURE TO THE METER BASE ENCLOSURE. UTILITY TRANSFORMER PAD AND GROUNDING PER PWC'S SPECIFICATIONS.

I AND DISPOSITION OF EQUIPMENT:

- LANS SHOWING REMOVAL OF MAJOR MECHANICAL AND ELECTRICAL EQUIPMENT IS NOT INTENDED TO SHOW ALL TS TO BE DEMOLISHED. NOT ALL PIPING, CONDUITS, DUCTS, EQUIPMENT, ANCILLARY DEVICES, ETC. ARE SHOWN. RACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.
- THERWISE SPECIFICALLY NOTED, REMOVE UNUSED EXPOSED CONDUIT AND SUPPORT SYSTEMS BACK TO SOURCE OINT OF CONCEALMENT INCLUDING ABOVE ACCESSIBLE CEILING FINISHES. WIRING SHALL BE REMOVED.
- WITH SLAB, CEILING, OR WALL ABANDONED CONCEALED CONDUIT. SUITABLY PLUG CONDUITS.
- ID RESTORE ADJACENT CONSTRUCTION AND FINISHES AFTER DEMOLITION IS COMPLETE.
- AND EQUIPMENT INDICATED FOR REMOVAL OR DEMOLITION IS TO BECOME CONTRACTOR'S PROPERTY UPON UNLESS NOTED OTHERWISE. REMOVED MATERIAL TO BE PROPERLY HANDLED AND DISPOSED. SWAB EXISTING CONDUITS PRIOR TO RE-USE.
- L RUBBISH AND DEBRIS FROM INSIDE AND AROUND ELECTRICAL EQUIPMENT AND ENCLOSURES. IRT, DUST OR CONCRETE SPATTER FROM INTERIOR AND EXTERIOR OF EQUIPMENT USING BRUSHES, VACUUM OR CLEAN LINT-FREE RAGS. DO NOT USE COMPRESSED AIR.

DELEGATED DESIGN / PROFESSIONAL ENGINEERING SERVICES:

- THE FOLLOWING SEQUENCE IS RECOMMENDED TO MAINTAIN THE PLANT IN OPERATION. ADDITIONAL INFORMATION CAN BE FOUND IN SECTION 01 00 10.
- 1. COORDINATE WITH THE POWER COMPANY TO DE-ENERGIZE THE TRANSFORMER'S PRIMARY FEEDERS.
- 2. PULL BACK THE EXISTING PRIMARY CONDUCTORS TO THE NEAREST UPSTREAM PULLBOX.

GENERAL ELECTRICAL NOTES

ROJECT NO. 6384-2311 FILE NAME: E002NFNT.DW SHEET NO.

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CDM Smith
5400 Glenwood Avenue, Suite 40 Raleigh, NC 27612 Tel: (919) 325-3500

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