

CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY

GEORGIA



ETOWAH RIVER WTP INTAKE MODIFICATIONS

CCWSA PROJECT No.: 2025_007_HAZEN
HAZEN PROJECT No.: 32462-009
JULY 2026

SITE INFORMATION:

ADDRESS: 583 COKERS CHAPEL RD, BALL GROUND, GA
PARCEL ID: 03N09013
ZONING: LI
NEIGHBORHOOD: N/A
NPU: N/A
COUNCIL DISTRICT: 1
TOTAL DISTURBED ACRES: 0.82 AC
TOTAL SITE AREA: 0.82 AC

PROJECT SCOPE:

THIS PROJECT IMPROVES THE RELIABILITY OF THE ETOWAH RIVER WTP RAW WATER INTAKE BY RELOCATING THE INTAKE SCREENS FURTHER INTO THE RIVER WHERE HIGHER FLOWS HELP KEEP SEDIMENT FROM ACCUMULATING AND CLOGGING THE SCREENS. THE PROJECT INCLUDES NEW INTAKE SCREENS, NEW INTAKE PIPING, NEW INTAKE SCREEN FOUNDATION, VALVE REPLACEMENT, AIRBURST SYSTEM UPGRADES, AND MINOR STREAMBANK STABILIZATION.

OWNER/DEVELOPER: CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY
110 RAILROAD STREET
CANTON, GEORGIA 30114
(770) 479-2911 - CLINT BLACKWELL

24-HOUR CONTACT: (770) 479-2911 - CLINT BLACKWELL CLINT@CHEROKEEWATERGA.GOV

GAS: ATLANTA GAS LIGHT: (877) 427-4321

ELECTRIC: COBB EMC: (678) 355-3464

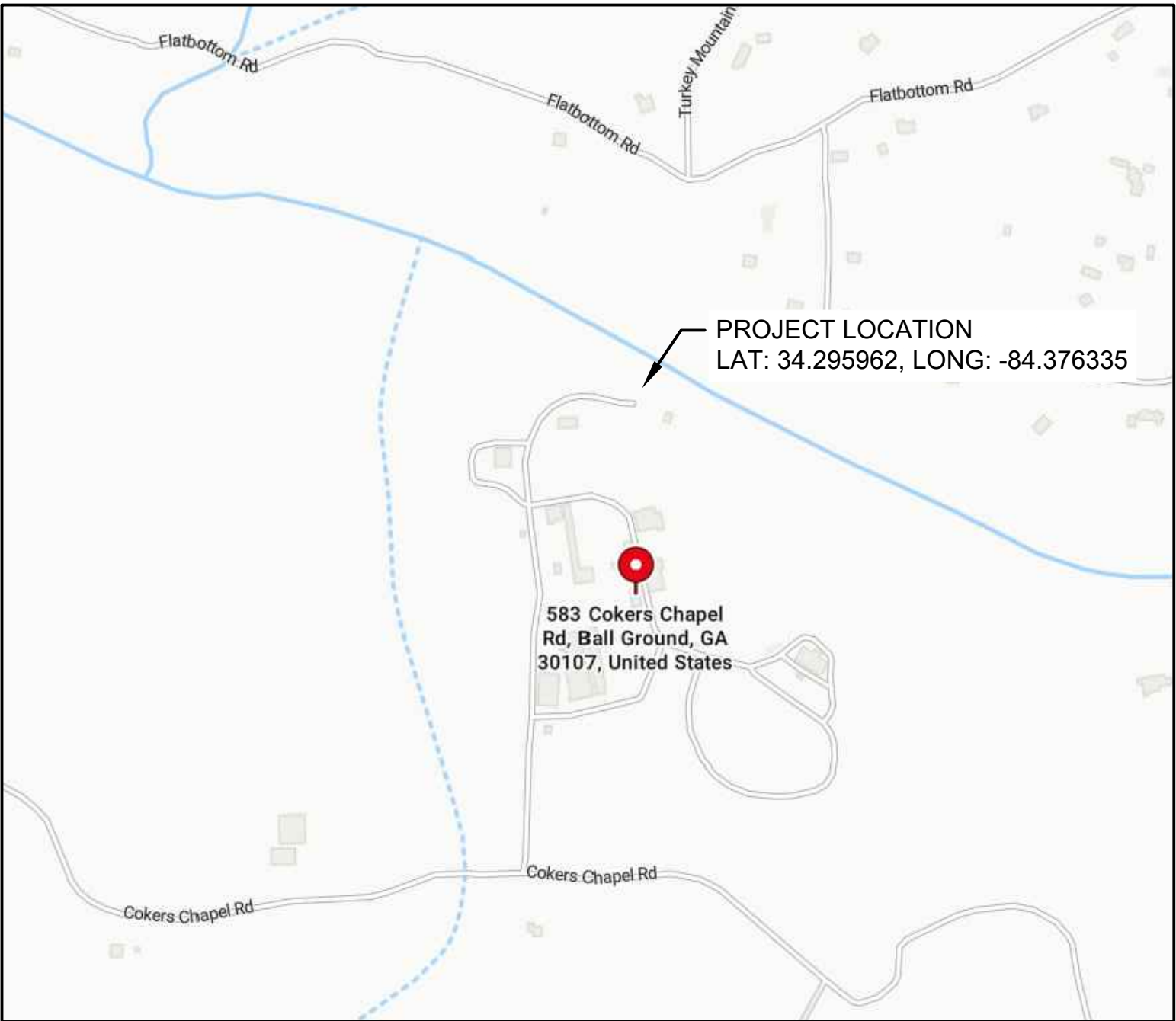
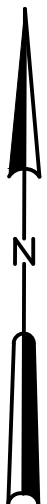
TELEPHONE: AT&T: 611

UTILITY PROTECTION: 1-800-282-7411

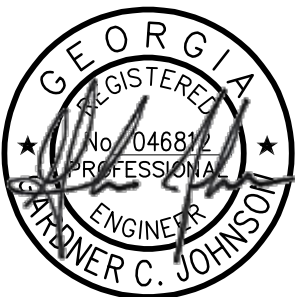
ENGINEER CONTACT INFORMATION:

GARDNER C. JOHNSON, PE
HAZEN AND SAWYER
211 PERIMETER CENTER PKWY, SUITE 300
ATLANTA, GA 30346
GJOHNSON@HAZENANDSAWYER.COM
(678) 244-6714

CHEROKEE COUNTY PROJECT NUMBER: PL20240000003



LOCATION MAP
NTS



2026.07.02 10:33:20-04'00'

Hazen

HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GEORGIA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
G-00	COVER SHEET
G-01	GENERAL NOTES
G-02	OVERALL SITE KEY MAP
C-01	EXISTING CONDITIONS
C-02	SITE DEMOLITION PLAN
C-03	SITE IMPROVEMENTS PLAN
C-04	RAW WATER INTAKE PROFILE
EC-01	EROSION CONTROL - PLAN
EC-02	EROSION CONTROL - NOTES
EC-03	EROSION CONTROL - DETAILS
EC-04	EROSION CONTROL - CHECKLIST
M-01	COMPRESSOR ROOM DEMOLITION PLAN
M-02	COMPRESSOR ROOM PLAN
S-01	STRUCTURAL NOTES, DEMOLITION PLAN AND SECTION
S-02	STRUCTURAL PLAN AND SECTION
S-03	STRUCTURAL SECTIONS
D-01	DETAILS
E-01	LEGEND, SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
E-02	PLAN, SINGLE LINE DIAGRAM, AND ELEVATION
E-03	PANELBOARD 1LA SCHEDULE AND BLOCK DIAGRAMS
E-04	STANDARD DETAILS
I-00	LEGEND AND GENERAL NOTES
I-01	COMPRESSED AIR SYSTEM

File: C:\DC\ACDC\CHAZEN AND SAWYER\32462-009\PROJECT FILES\1-DESIGN\01-HAZEN\GENERAL\G-01 Saved by: LRICH Save date: 6/25/2026 3:37 PM
PLOT DATE: 7/1/2026 9:26 AM BY: LRICH

GENERAL SITE NOTES:

1.

LOCATIONS OF EXISTING FACILITIES AND UTILITIES ARE TAKEN FROM INFORMATION PROVIDED BY CHEROKEE WATER AND SEWER AUTHORITY (CCWSA) AND/OR THE SURVEY SHOWN ON THE EXISTING CONDITIONS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UNDERGROUND UTILITY LINES, VAULTS, BOXES, ETC. PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BRING ANY DISCREPANCIES IN PLANS, SITE CONDITIONS, AND PRIOR WORK TO CCWSA'S ATTENTION BEFORE ANY ADDITIONAL WORK IS PERFORMED.
2.

CONTRACTOR SHALL NOT WILLINGLY PROCEED WITH CONSTRUCTION WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF CCWSA. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
3.

HORIZONTAL DATUM: NAD 83 STATE PLANE WEST
4.

VERTICAL DATUM: NAVD 88
5.

EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
6.

CONTRACTOR SHALL VERIFY PROJECT LIMITS PRIOR TO COMMENCING WORK.
7.

ANY DAMAGE INCURRED TO ANY EXISTING UTILITY ELEMENTS SHALL BE REPAIRED PROPERLY AND IMMEDIATELY AT NO ADDITIONAL COST TO CCWSA.
8.

ANY AND ALL DAMAGE TO EXISTING PLANT MATERIAL OR HARDSCAPE ELEMENTS THAT ARE TO REMAIN, I.E. CURBS, ROADS, WALLS, FENCES, TREES, SHRUBS, ETC., SHALL BE REPORTED TO CCWSA AND REPAIRED AT NO EXPENSE TO CCWSA.
9.

STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
10.

REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
11.

PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AND PREVENT PUBLIC ACCESS TO WORK AREAS AT ALL TIMES.
12.

CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION AS PER THE APPROVED EROSION & SEDIMENT CONTROL PLANS.
13.

EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE, REMOVAL, AND ALL ASSOCIATED COSTS FOR THE DURATION OF THE PROJECT.
14.

THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE AND INCOMPLETE. THE EXACT LOCATIONS AND SIZES SHALL BE DETERMINED BY THE CONTRACTOR AND THE UTILITY COMPANIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL HAVE CONTACTED THE GEORGIA 811 UTILITIES PROTECTION CENTER AND THE UTILITY OWNERS LOCATED THEIR RESPECTIVE UTILITIES. CALL EITHER 811 OR 1-800-282-7411. THE CONTRACTOR SHALL PROVIDE ALL THE NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL REPAIR ANY UTILITY DAMAGES AT HIS EXPENSE.
15.

PRIOR TO CONSTRUCTION, CONTRACTOR IS REQUIRED TO SUBMIT A DEWATERING AND FLOW DIVERSION PLAN FOR REVIEW AND ACCEPTANCE BY ENGINEER AND THE CITY. THE WORK INCLUDING H-PILE INSTALLATION, CONCRETE PLACEMENT, AND TRENCHING FOR PIPE INSTALLATION MUST BE PERFORMED IN THE DRY. OTHER PORTIONS OF THE WORK MAY BE PERMITTED TO WORK IN THE WET. REFER TO SECTION 01 57 52 - DEWATERING AND FLOW DIVERSION FOR STREAMWORK.
16.

STEEL COVER PLATES SHALL BE PLACED OVER EXCAVATIONS IN STREETS, DRIVEWAYS, AND SIDEWALKS WHEN THERE IS NO CONSTRUCTION ACTIVITY. OTHER EXCAVATIONS SHALL BE BARRICADED OR FENCED WHEN THERE IS NO CONSTRUCTION ACTIVITY.
17.

ONE 12-FOOT LANE FOR EMERGENCY VEHICLES SHALL REMAIN OPEN AT ALL TIMES. ALL FIRE HYDRANTS SHALL BE KEPT CLEAR AND VISIBLE FROM THE EMERGENCY LANE.
18.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25- OR 50- UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. A 50-FOOT UNDISTURBED BUFFER AND A 75-FOOT IMPERVIOUS SETBACK SHALL BE MAINTAINED ADJACENT TO ALL STREAMS.
19.

ALL DEBRIS, DEMOLISHED APPURTENANCES, UNSUITABLE MATERIAL, AND SPOIL EARTH SHALL BE REMOVED CONTINUOUSLY AT THE CONTRACTOR'S EXPENSE. THE LEGAL DISPOSAL OF DEBRIS MATERIAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
20.

ALL SEDIMENT AND DEBRIS REMOVED FROM STORM SEWERS, SANITARY SEWERS, AND COMBINED SEWERS SHALL BE HAULED IN APPROVED CONTAINERS THAT PREVENT ODOR AND DRIPPING. THE LEGAL DISPOSAL OF THIS MATERIAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL PROVIDE THE CHAIN OF CUSTODY DOCUMENTATION.
21.

COMPACTION REQUIREMENTS SHALL BE TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR), UNLESS OTHERWISE STATED. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A MATERIALS TESTING CONSULTANT TO PROVIDE THE TESTING FOR EACH STRUCTURE, PAVEMENT SECTION, AND TRENCH.
22.

PAVEMENT PATCHING SHALL BE PER CCWSA STANDARD DETAIL M-07. ALL PAVEMENT CUTS SHALL BE SAW CUT FULL DEPTH.
23.

DRAINAGE STRUCTURES SHALL BE PER GDOT STANDARD DETAILS UNLESS NOTED OTHERWISE. ALL STORM PIPE SHALL BE CLASS III WALL B, UNLESS OTHERWISE NOTED. PROVIDE CONCRETE INVERTS IN ALL DRAINAGE STRUCTURES WITH CHANNELS BUILT TO SUIT PIPE SIZE AND LOCATION. HEIGHT OF CHANNEL EQUAL TO ⅓ DIAMETER OF OUTLET PIPE. ANY MORE STRINGENT CHANNEL REQUIREMENTS PER GDOT DETAILS APPLY.
24.

ALL SIDEWALK RECONSTRUCTION SHALL START AND END AT EXISTING JOINTS. THE WIDTH SHALL MATCH THE EXISTING WIDTH AND BE CONSTRUCTED PER CCWSA STANDARD DETAILS. RECONSTRUCTED WHEELCHAIR RAMPS SHALL BE PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY-APPROPRIATE STANDARD DETAILS.
25.

TRAFFIC CONTROL PAINT SHALL MEET GDOT SPECIFICATION FOR PAVEMENT MARKING PAINT.
26.

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO MATCH THE EXISTING GROUND COVER PER THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING GRASSING FOR 60 CALENDAR DAYS AFTER FINAL COMPLETION. FAILURE TO HAVE ESTABLISHED GRASS (100 SEEDLINGS PER SQUARE FOOT) SHALL REQUIRE RE-SEEDING AT THE CONTRACTOR'S EXPENSE.
27.

RECOMMENDATIONS FOR CORRECTIVE MEASURES ARE BASED ON BEST AVAILABLE INFORMATION PROVIDED BY CCWSA.
28.

CONTRACTOR TO FIELD VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION.
29.

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CHEROKEE COUNTY WATER AND SEWER SPECIFICATIONS.
30.

THE CONTRACTOR SHALL INSTALL ALL INITIAL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTIFY CCWSA AND ENGINEER FOR ACCEPTANCE PRIOR TO BEGINNING DEMOLITION OPERATIONS.

GRADING NOTES:

1.

CONTRACTOR SHALL NOT PERMIT EQUIPMENT TO BE USED IN SUCH A MANNER AS TO CAUSE EQUIPMENT TO EXCESSIVELY PUMP OR RUT THE SUBGRADE OR OTHER PREPARED AREAS.
2.

CONTRACTOR SHALL GRADE IN A MANNER TO ESTABLISH LONG SMOOTH GRADIENTS IN ORDER TO REDUCE ABRUPT CHANGES, DIPS AND SHARP TRANSITIONS IN THE FINISHED GRADE.
3.

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE POSITIVE DRAINAGE ON GRADED SURFACE AREAS AT 1% MINIMUM ON HARDSCAPE AND AT 2% MINIMUM ON EARTHEN GRADE UNLESS OTHERWISE INDICATED.
4.

ANY REQUIRED DETENTION FACILITIES AND EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED AND APPROVED BY CCWSA AND ENGINEER.
5.

ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
6.

SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
7.

UNLESS SHOWN ON THE EROSION & SEDIMENT CONTROL PLANS AND / OR LANDSCAPING PLANS, ALL DISTURBED AREAS NOT RECEIVING A HARDSCAPE SURFACE SHALL BE COVERED IN GRASS.
8.

GENERALLY TAKE STANDARD PRECAUTIONS TO PROTECT TREES. SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION REQUIREMENTS WHEN APPLICABLE.

STAKING NOTES:

1.

COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CENTERLINE OF ROAD.
2.

5' TYPICAL RADIUS UNLESS NOTED OTHERWISE.
3.

24" CURB & GUTTER UNLESS NOTED OTHERWISE.
4.

THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF GEORGIA TO MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.

DEMOLITION NOTES:

1.

THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING, PAVEMENT, SIDEWALK, CURB, GUTTER, PAVERS, ETC., NOTED TO BE REMOVED WITHIN THE DEMOLITION LIMITS AS SHOWN ON THIS PLAN UNLESS OTHERWISE NOTIFIED BY CCWSA OR ENGINEER.
2.

CONTRACTOR TO PROVIDE AND MAINTAIN NECESSARY FENCES, BARRICADES, LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC THROUGHOUT THE DEMOLITION AND CONSTRUCTION ACTIVITIES ON THE SITE.
3.

CONTRACTOR SHALL MINIMIZE THE IMPACT OF CONSTRUCTION ACTIVITIES ON THE TRAFFIC FLOW TO SURROUNDING FACILITIES AND RESIDENCES.
4.

CONTRACTOR SHALL SAW CUT PAVEMENT, SIDEWALKS, AND CURB & GUTTER AT THE LIMIT OF DEMOLITION FOR REMOVAL.
5.

ALL EXISTING PIPE TO BE ABANDONED SHALL BE CUT AND PLUGGED OR CAPPED AT EACH END. WHERE EXISTING PIPING INTERFERES WITH NEW PIPING OR CONSTRUCTION, IT SHALL BE REMOVED BEYOND THE LIMITS REQUIRED FOR THE PROPER COMPLETION OF THE WORK AND THE OPEN ENDS PLUGGED OR CAPPED UNLESS OTHERWISE SHOWN. LINES SHALL BE PLUGGED OR CAPPED AT LEAST 12-INCHES BEHIND OR BELOW FINISH BUILDING SURFACE AND AT LEAST 12-INCHES BELOW PROPOSED GRADE SURFACE.

PERMITTING NOTES:

USACE NATIONWIDE PERMIT

1.

THE USE OF THE USACE NATIONWIDE PERMIT (NWP) IS VALID ONLY IF:

1.1.

THE ACTIVITY IS CONDUCTED IN ACCORDANCE WITH THE INFORMATION SUBMITTED AND MEETS THE CONDITIONS APPLICABLE TO THE NWP, AS DESCRIBED AT PART C OF THE NWP PROGRAM AND THE SAVANNAH DISTRICT'S REGIONAL CONDITIONS FOR NWPS.

1.2.

CONTRACTOR SHALL NOTIFY THE CORPS, IN WRITING, AT LEAST 10 DAYS IN ADVANCE OF COMMENCEMENT OF WORK AUTHORIZED BY THIS PERMIT.

1.3.

CONTRACTOR SHALL FILL OUT AND SIGN THE CERTIFICATION FOUND IN APPENDIX A OF THE SPECIFICATIONS TITLED "CERTIFICATE OF COMPLIANCE WITH DEPARTMENT OF THE ARMY NATIONWIDE PERMIT (3 & 13)" AND RETURN IT TO CORPS OFFICE WITHIN 30 DAYS OF COMPLETION OF THE ACTIVITY AUTHORIZED BY THIS PERMIT.
2.

THIS VERIFICATION IS VALID UNTIL THE NWP IS MODIFIED, REISSUED, OR REVOKED. ALL OF THE EXISTING NWPS ARE SCHEDULED TO EXPIRE ON MARCH 15, 2031. IT IS INCUMBENT UPON THE CONTRACTOR TO REMAIN INFORMED OF CHANGES TO THE NWPS. FURTHERMORE, IF THE CONTRACTOR COMMENCES OR ARE UNDER CONTRACT TO COMMENCE THIS ACTIVITY BEFORE THE DATE THAT THE RELEVANT NWP IS MODIFIED OR REVOKED, CONTRACTOR WILL HAVE 12 MONTHS FROM THE DATE OF THE MODIFICATION OR REVOCATION OF THE NWP TO COMPLETE THE ACTIVITY UNDER THE PRESENT TERMS AND CONDITIONS OF THE NWP.
3.

BASED ON THE AUTHORIZED NWP, THE PROJECT AS PROPOSED MAY AFFECT, BUT IS NOT LIKELY TO ADVERSELY AFFECT FREKLEBELLY MADTOM, AMBER DARTER, CHEROKEE DARTER, AND ETOWAH DARTER. AUTHORIZATION OF AN ACTIVITY UNDER A NATIONWIDE PERMIT DOES NOT AUTHORIZE THE "TAKE" OF THREATENDED OR ENDANGERED SPECIES.

GAEPD STREAM BUFFER VARIANCE

1.

ALL GRADED SLOPES 3:1 OR GREATER MUST BE HYDROSEEDED AND COVERED WITH GEORGIA DOT APPROVED WOOD FIBER MATTING OR COCONUT FIBER MATTING. IF NOT HYDROSEEDED, GEORGIA DOT APPROVED MATTING THAT HAS BEEN INCORPORATED WITH SEED AND FERTILIZER MUST BE USED. ALL SLOPES MUST BE PROPERLY PROTECTED UNTIL A PERMANENT VEGETATIVE STAND IS ESTABLISHED;
2.

THE AMOUNT OF LAND CLEARED DURING CONSTRUCTION MUST BE KEPT TO A MINIMUM;
3.

ALL DISTURBED AREAS MUST BE SEEDED, FERTILIZED, AND MULCHED AS SOON AS THE FINAL GRADE IS ACHIEVED. ALSO, THESE DISTURBED AREAS MUST BE PROTECTED UNTIL PERMANENT VEGETATION IS ESTABLISHED;
4.

A DOUBLE ROW OF GEORGIA DOT TYPE "C" SILT FENCE OR AN APPROVED HIGH PERFORMANCE SILT FENCE MUST BE INSTALLED BETWEEN THE LAND DISTURBING ACTIVITIES AND STATE WATERS WHERE APPROPRIATE;
5.

BUFFER VARIANCE CONDITIONS MUST BE INCORPORATED INTO ANY LAND DISTURBING ACTIVITY PERMIT ISSUED BY CHEROKEE COUNTY FOR THIS PROJECT; AND
6.

THIS PROJECT MUST BE CONDUCTED IN STRICT ADHERENCE TO THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND ANY LAND DISTURBING ACTIVITY PERMIT ISSUED BY CHEROKEE COUNTY.

PERMITTING NOTES (CONT.):

LAND DISTURBANCE ACTIVITY

1.

CONTRACTOR SHALL BRING THE LAND DISTURBANCE PERMIT APPROVAL NOTICE FOUND IN THE SPECIFICATIONS TO THE CHEROKEE COUNTY DEPARTMENT SERVICE CENTER LOCATED ON THE GROUND FLOOR OF THE CHEROKEE COUNTY ADMINISTRATION BUILDING, ALONG WITH 3 COPIES OF THE APPROVED PLANS. THE PLANS MUST BE A MINIMUM OF 22"X34" (TO SCALE).
2.

CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE DEPARTMENT INSPECTOR TO ISSUE THE LAND DISTURBANCE PERMIT PRIOR TO STARTING ANY WORK AT THE SITE. CALL 678-493-6076.

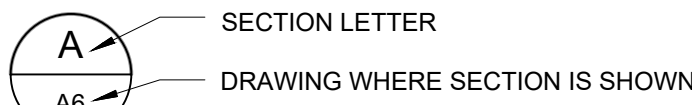
ABBREVIATIONS

AC	ACRES	JT	JOINT
ADH	ADHESIVE	LF	LINEAR FOOT
AL	ALUMINUM	LOD	LIMITS OF DISTURBANCE
BMP	BEST MANAGEMENT PRACTICES	MATL	MATERIAL
CIP	CAST IN PLACE	OCS	OUTLET CONTROL STRUCTURE
CLR	CLEAR	OPNG	OPENING
CONC	CONCRETE	N.T.S	NOT TO SCALE
CXN	CONNECTION	PL	PLATE
DWG	DRAWING	PP	POWER POLE
DWL	DOWEL	PROP	PROPOSED
EA	EACH	R	RADIUS
ELEV	ELEVATION	RLS	REGISTERED LAND SURVEYOR
EOP	EDGE OF PAVEMENT	SF	SILT FENCE
EQ	EQUAL	SQFT	SQUARE FEET
EW	EACH WAY	SIM	SIMILAR
EX/EXIST	EXISTING	S.E.L.	SOIL ENCAPSULATED LIFT
EXP	EXPANSION	SST	STAINLESS STEEL
FDN	FOUNDATION	STD	STANDARD
FT	FEET	TPF	TREE PROTECTION FENCE
ID	INSIDE DIAMETER	TYP	TYPICAL
IRW	IMBRICATED ROCK WALL	UNO	UNLESS NOTED OTHERWISE
INV	INVERT	WSE	WATER SURFACE ELEVATION
		RW	RAW WATER

SECTION AND DETAIL KEYING

DRAWINGS ARE CROSS REFERENCED IN THE FOLLOWING METHOD:

(A) A SECTION CUT ON DRAWING A3 IS IDENTIFIED AS FOLLOWS:

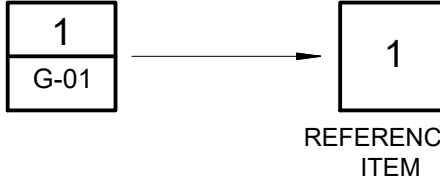


(B) THE SECTION SHOWN ON DRAWING A6 IS IDENTIFIED AS FOLLOWS:



DETAILS ARE CROSS REFERENCED IN A SIMILAR MANNER, EXCEPT DETAILS ARE IDENTIFIED BY A SQUARE WITH A NUMBER IN THE UPPER HALF.

STANDARD DETAILS ARE REFERENCED BY A UNIQUE SEVEN DIGIT NUMBER AND ARE SHOWN ON THE CONTRACT DRAWINGS BY ONE OF TWO METHODS:



LEGEND & SYMBOLS

DEMOLITION



TO BE REMOVED

EXISTING

	BUILDING/WALL
	CONTOUR LINES
	CHAIN LINK FENCE LINE
	PROPERTY LINE
	SANITARY SEWER LINE
	STORM SEWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	25' GAEPD
	UNDISTURBED BUFFER
	50' UNDISTURBED BUFFER
	SOIL TYPE BOUNDARY
	FLOW ARROW
	SANITARY SEWER MANHOLE
	SIGN
	EXISTING CONCRETE
	WATER VALVE
	FEMA ZONE A

PROPOSED

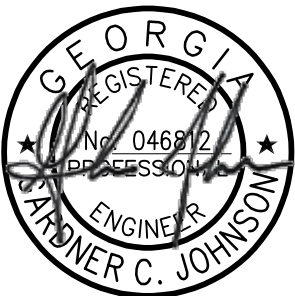
	100'	CONTOUR LINES
	LOD	LIMITS OF DISTURBANCE/TREE PROTECTION FENCING
	100YR	100-YEAR WSE
		PROPOSED ITEMS
		CONCRETE
		IMBRICATED ROCK WALL
		MAINTENANCE ACCESS STONES
		RIPRAP

EROSION CONTROL

		CONSTRUCTION EXIT
		MATERIAL LAYDOWN AREA
	SF	SILT FENCE
		TURBIDITY CURTAIN
	TPF	TREE PROTECTION FENCING

				PROJECT ENGINEER:	G. JOHNSON
				DESIGNED BY:	C. GOBLISCH
				DRAWN BY:	J.GOMEZ PRADO
				CHECKED BY:	C. CLARK
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
1	BID	07/2026	GCJ		
REV	ISSUED FOR	DATE	BY		

ISSUED FOR BID



2026.07.02 10:33:31-04'00"

Hazen

HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

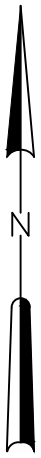
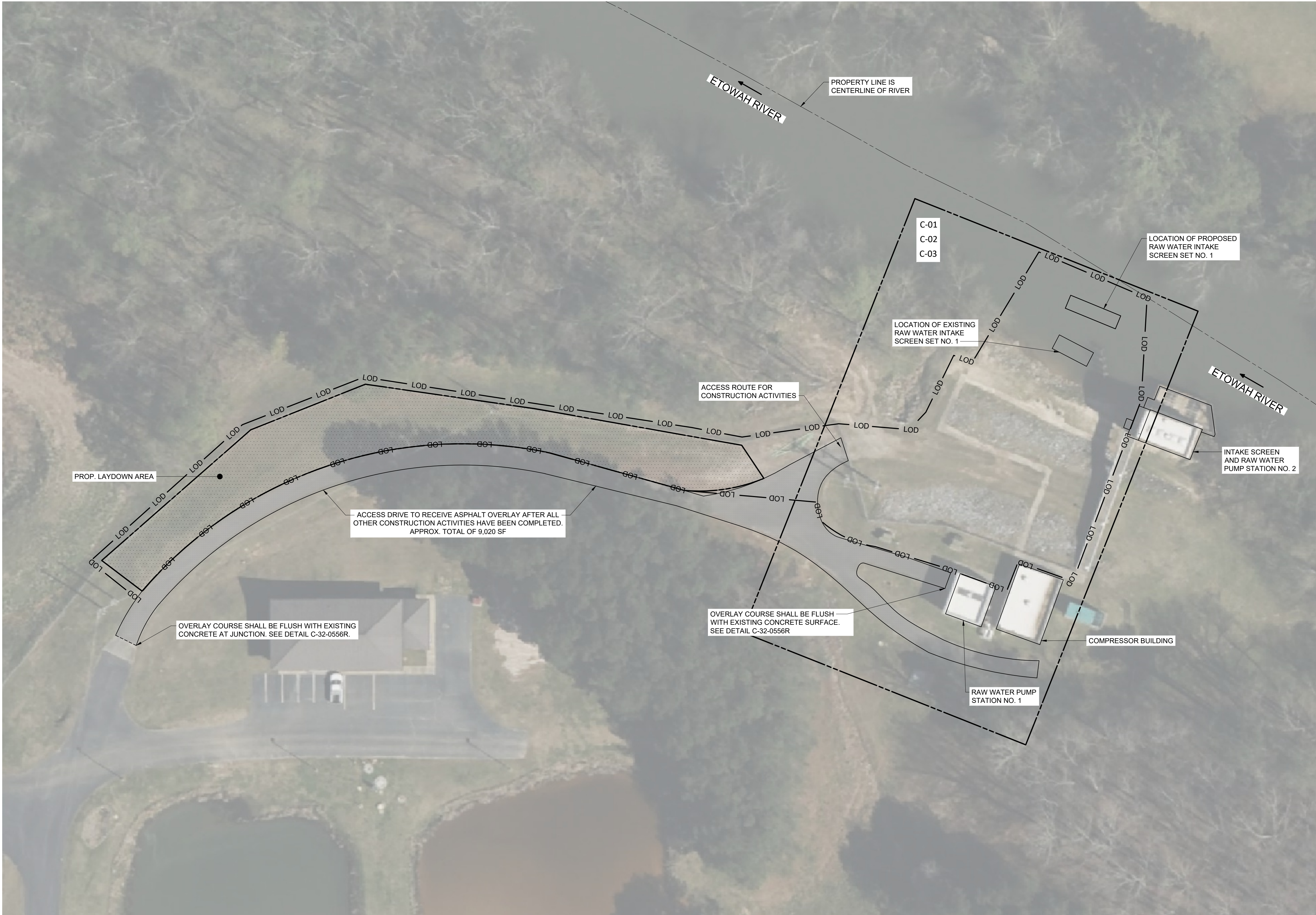
CHEROKEE COUNTY WATER AND
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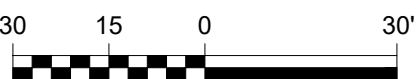
GENERAL NOTES

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	G-01

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PLOT DATE: 7/1/2026 9:26 AM BY: L RICH



SCALE: 1" = 30'

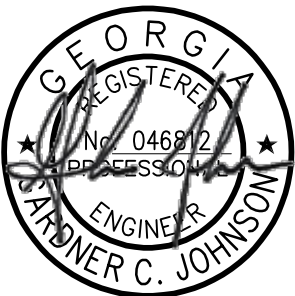


PLAN
SCALE: 1" = 30'

1	BID	07/2026	GCJ	
REV	ISSUED FOR	DATE	BY	

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	C. GOBLISCH
DRAWN BY:	J. GOMEZ PRADO
CHECKED BY:	C. CLARK
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

ISSUED FOR BID



2026.07.02 10:33:42-04'00"

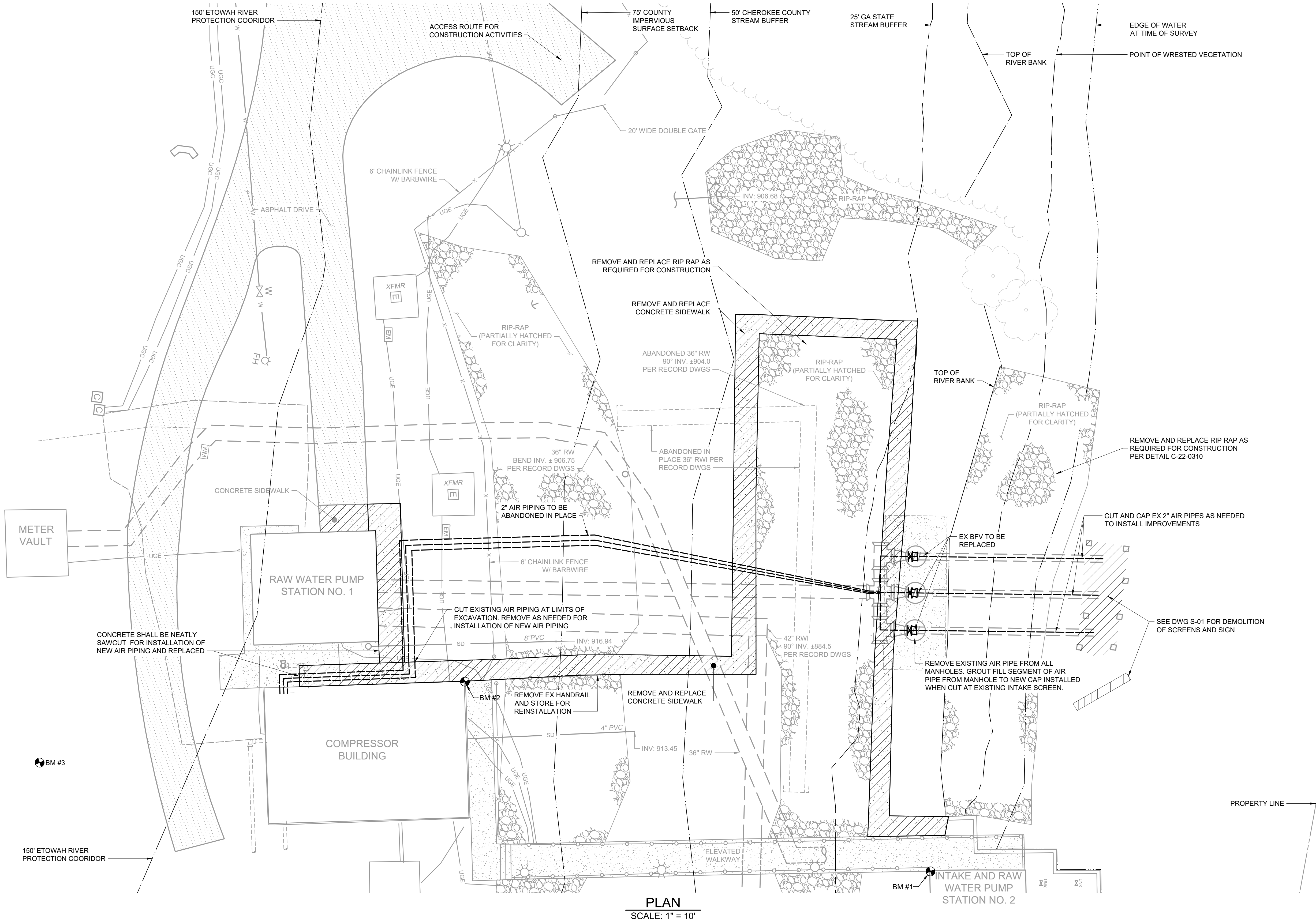
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ATLANTA, GA 30346
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CHEROKEE COUNTY WATER AND
SEWERAGE AUTHORITY

ETOWAH RIVER WTP
INTAKE MODIFICATIONS

OVERALL SITE KEY MAP

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	G-02



NOTES:

1. SEE DWG S-01 FOR SCREEN DEMOLITION DETAILS
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND CLEANING OF THE EXISTING RAW WATER PUMP STATION NO. 1 WET WELL AND EXISTING INTAKE PIPING. SEDIMENT SHALL BE ASSUMED UP TO ELEVATION 886.00 IN THE PIPE AND WET WELL.

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PLOT DATE: 7/1/2026 1:04 PM BY: TBRIA

1	BID	07/2026	GCJ
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	C. GOBLISCH
DRAWN BY:	J. GOMEZ PRADO
CHECKED BY:	C. CLARK
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

ISSUED FOR BID



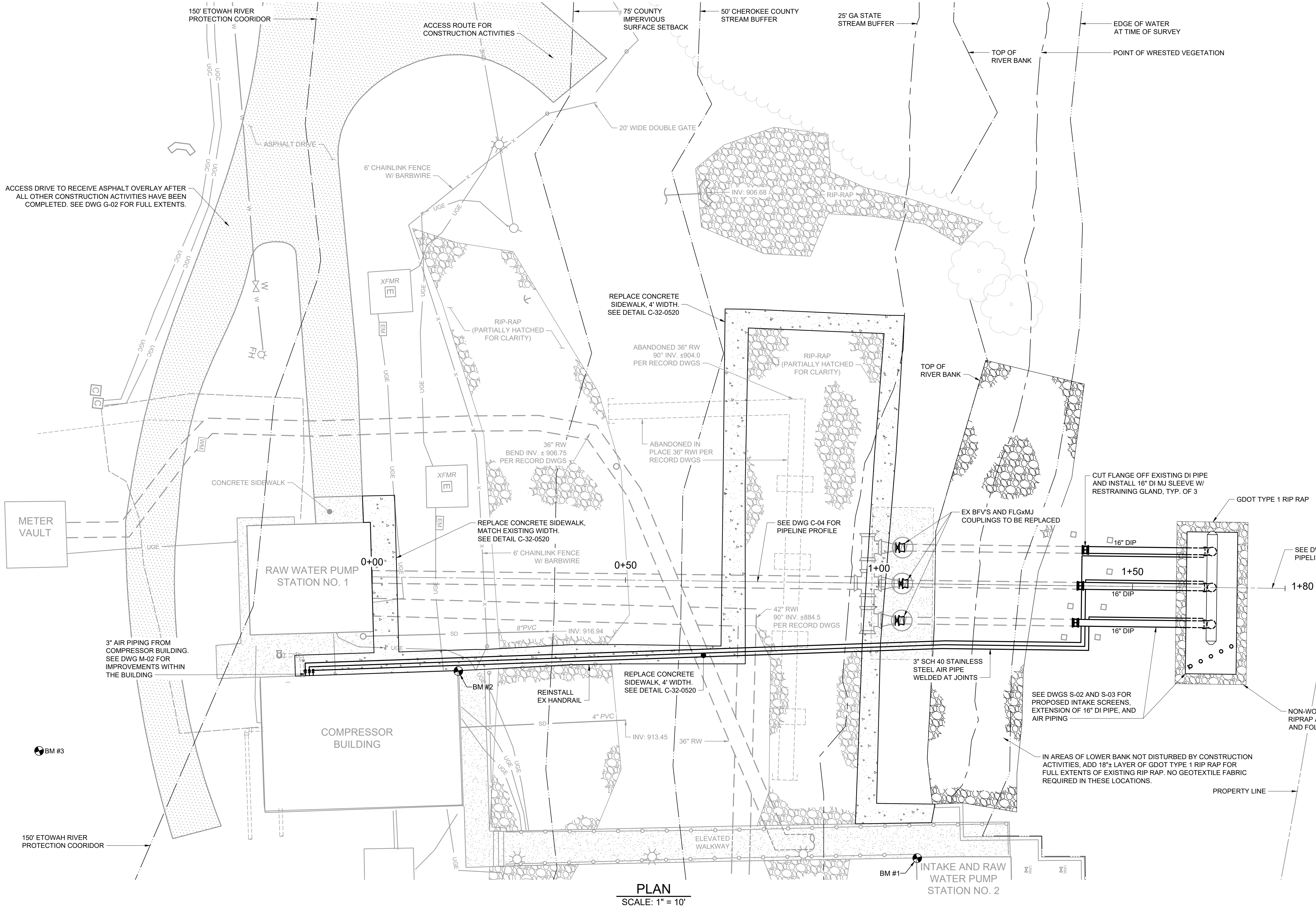
Hazen
HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

CHEROKEE COUNTY WATER AND
SEWERAGE AUTHORITY

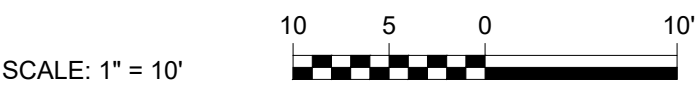
ETOWAH RIVER WTP
INTAKE MODIFICATIONS

CIVIL
SITE DEMOLITION PLAN

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	C-02



- NOTES:
1. MAINTAIN A MINIMUM OF 30" OF COVER ON PROPOSED AIR PIPING.
 2. CONTRACTOR SHALL COORDINATE THE PROPOSED AIR PIPING WITH EXISTING CONDITIONS AND PROVIDE ALL PIPE SECTIONS AND FITTINGS REQUIRED FOR NEW WORK.
 3. BEDDING FOR AIR PIPING AND 12-INCH WATER MAINS AND SMALLER SHALL BE TYPE A. BEDDING FOR WATER MAINS LARGER THAN 12-INCHES SHALL BE TYPE B.
 4. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED SURVEYOR TO COMPLETE AS-BUILT DRAWINGS FOR THE PROJECT.
 5. ALL BURIED PIPING SPECIFIED SHALL BE TESTED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
 6. CONTRACTOR SHALL PROVIDE TEMPORARY PLUGS, CAPS, AND BULKHEADS OR OTHER COMPONENTS NECESSARY TO SUCCESSFULLY COMPLETE PRESSURE TESTING OF ALL PIPING.
 7. THE PIPELINE HORIZONTAL ALIGNMENT IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE PIPE LENGTHS TO MEET THE ALIGNMENT AND TO AVOID CONFLICTS WITH EXISTING UTILITIES.
 8. THE WORK INCLUDING H-PILE INSTALLATION, CONCRETE PLACEMENT, AND TRENCHING FOR PIPE INSTALLATION MUST BE PERFORMED IN THE DRY PER SPECIFICATION 04 05 00 3.01K. REFER TO SECTION 01 57 52 - DEWATERING AND FLOW DIVERSION FOR STREAMWORK.



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1	BID	07/2026	G CJ
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	C. GOBLISCH
DRAWN BY:	J. GOMEZ PRADO
CHECKED BY:	C. CLARK
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

ISSUED FOR BID



Hazen
HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

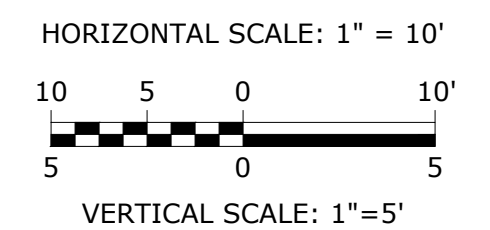
CHEROKEE COUNTY WATER AND
SEWERAGE AUTHORITY

ETOWAH RIVER WTP
INTAKE MODIFICATIONS

CIVIL
SITE IMPROVEMENTS PLAN

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	C-03

1. CONTRACTOR TO CONFIRM ELEVATION, LOCATION, AND PROPOSED CONNECTION TO EXISTING 16" RW AT TIE-IN BEFORE BEGINNING WORK IN RIVER.
2. STREAM BANK TO BE RESET AT EXISTING GRADE AND RIP RAP REMOVED SHALL BE REPLACED WITH GDOT TYPE 1 RIP RAP.
3. CONTRACTOR SHALL COORDINATE THE PROPOSED AIR PIPING WITH EXISTING CONDITIONS AND PROVIDE ALL PIPE SECTIONS AND FITTINGS REQUIRED FOR NEW WORK.
4. EXISTING BVF MANHOLES HOLD WATER AND CONTAIN MUD TO THE CROWN OF THE 16" PIPING. CONTRACTOR SHALL INCLUDE PUMPING AND REMOVAL OF MUD FOR THE WORK IN THE LUMP SUM BASE BID. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR NEW WORK PRIOR TO SUBMITTING BUTTERFLY VALVES.

[illegible]

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NOTES

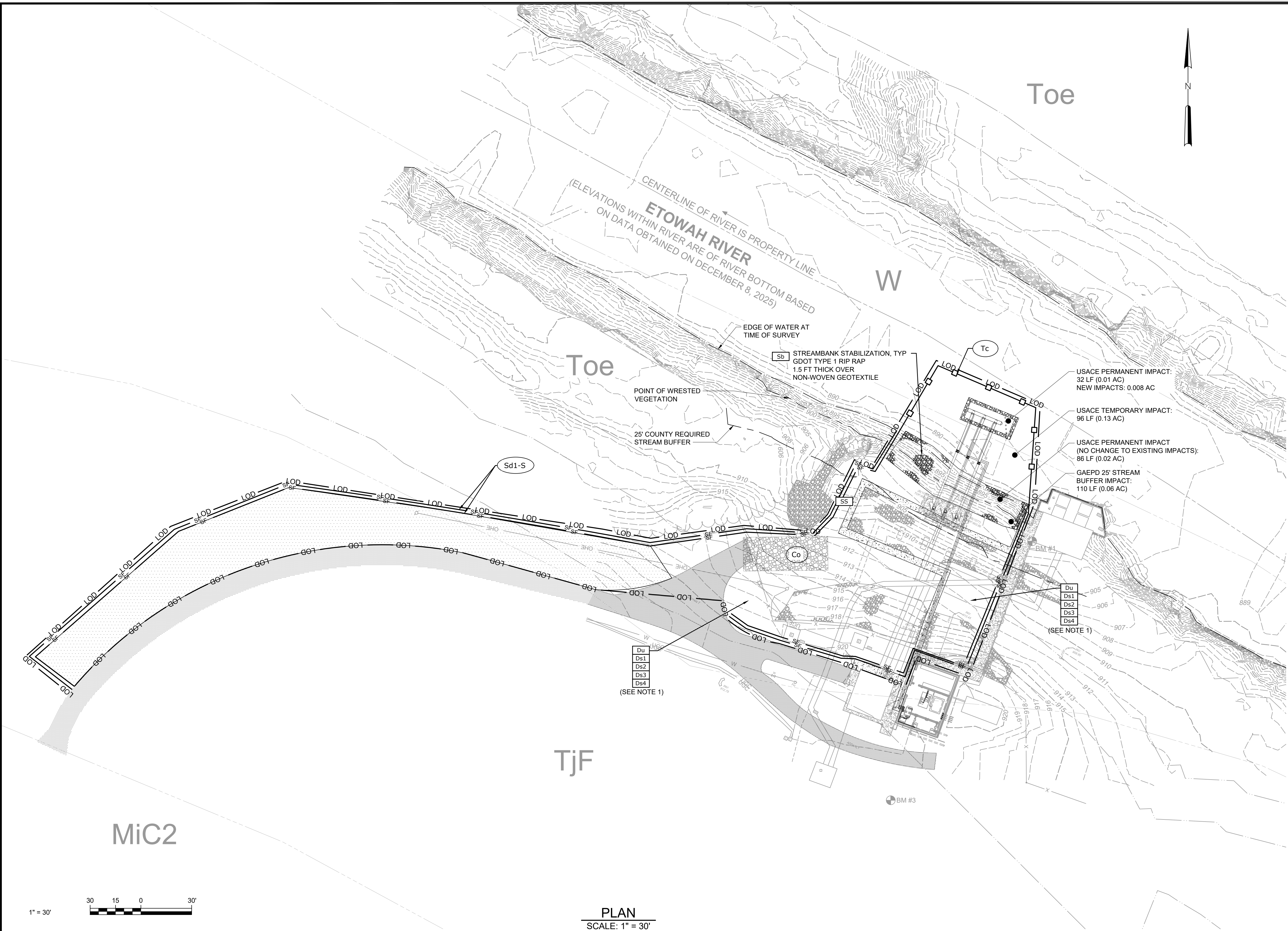
1. ALL DISTURBED AREAS SHALL BE STABILIZED USING MULCH, TEMPORARY SEED, AND PERMANENT SEED DEPENDING ON PHASE OF CONSTRUCTION AND PLANTING SEASON. CONTRACTOR TO USE ERNST MIX 178 (RIPARIAN BUFFER MIX) OR ENGINEER APPROVED EQUIVALENT WHEN APPLYING PERMANENT SEED IN DESIGNATED AREAS.
2. PRIOR TO CONSTRUCTION, CONTRACTOR IS REQUIRED TO SUBMIT A DEWATERING AND FLOW DIVERSION PLAN FOR REVIEW AND ACCEPTANCE BY ENGINEER AND THE CITY.
3. CONSTRUCTION ACCESS ROUTES SHOWN ON THIS DRAWING MAY BE FIELD ADJUSTED IF APPROVED BY BOTH ENGINEER AND OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE PROPOSED LOCATION OF ALL CONSTRUCTION ACCESS ROUTES AND FLAG ANY TREES THAT REQUIRE REMOVAL. THE ENGINEER AND CITY SHALL BE IN AGREEMENT WITH THE CONTRACTOR'S PROPOSED ACCESS ROUTES AND TREE REMOVAL PLANS PRIOR TO PROCEEDING WITH ANY ACTIVITIES.
4. SILT FENCE LOCATION IS APPROXIMATE AND MAY BE ADJUSTED IN COORDINATION WITH ENGINEER. TREE PROTECTION FENCING WILL SURROUND THE LOD TO THE EXTENT PRACTICAL.
5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs SUCH AS SILT FENCE, TURBIDITY CURTAIN, AND TREE PROTECTION FENCING SHALL BE REMOVED AFTER ENTIRE PROJECT HAS BEEN STABILIZED AND APPROVED IN WRITING BY THE ENGINEER AND CITY.

SILT FENCE STORAGE CALCULATIONS:

TOTAL SILT FENCE TO BE INSTALLED = 2,008 LF
9.3 CY OF STORAGE PER 100 LF OF SILT FENCE
(2,008 LF/100 LF) * 9.3 CY = 186.7 CY OF STORAGE
TOTAL DISTURBED AREA = 0.84 ACRES x 67 CY/AC
TOTAL STORAGE REQUIRED = 56.28 CY
TOTAL STORAGE PROVIDED = 186.7 CY. SITE COMPLIES WITH GEORGIA EROSION CONTROL CRITERIA.

SOIL SERIES LEGEND

SYMBOL	NAME	HYDROLOGIC GROUP	SLOPE
W	WATER	N/A	N/A
TJF	TALLAPOOSA CHANNERY SANDY LOAM	D	25-60%
MIC2	MADISON GRAVELLY SANDY CLAY LOAM	B	2-10%
Toe	TOCCOA COMPLEX	A	0-2%



PLAN
SCALE: 1" = 30'

GSWCC Georgia Soil and Water Conservation Commission
ASHLEY KINSEY, PE
Level II Certified Design Professional
Certification Number: #0000080913 Expires: 03/08/2028
Issued: 08/25/2018

811
BEFORE YOU DIG!
CONTACT ONE-CALL CENTER
CALL 811

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	A. KINSEY
DRAWN BY:	S. PIERCE
CHECKED BY:	D. HOSTETLER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
1	BID
REV	ISSUED FOR
07/2026	DATE
G CJ	BY

ISSUED FOR BID



Hazen
HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY

ETOWAH RIVER WTP INTAKE MODIFICATIONS

CIVIL
EROSION CONTROL - PLAN

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	EC-01

DESIGN PROFESSIONAL

☒ 12. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

ASHLEY KINSEY, PE
LEVEL II CERTIFIED DESIGN PROFESSIONAL #0000080913

I CERTIFY THAT THE RECEIVING WATER(S) OR THE OUTFALL(S) OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S) WILL BE MONITORED IN ACCORDANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.

OPERATOR'S PRINTED NAME: _____

SIGNATURE: _____ DATE: _____

9 PROJECT NARRATIVE

THIS PROJECT INVOLVES IMPROVEMENTS TO THE ETOWAH RIVER WATER TREATMENT PLANT (WTP) INTAKE, WHICH IS EXPERIENCING OPERATIONAL ISSUES DUE TO SIGNIFICANT SEDIMENT DEPOSITION ON THE INTAKE SCREENS LOCATED IN THE ETOWAH RIVER. THE DESIGN WILL REDUCE THE CLOGGING BY RELOCATING THE INTAKE PIPE FURTHER INTO THE RIVER WHERE VELOCITIES ARE HIGHER AND "SELF-SCOURING" CAN OCCUR. THE DESIGN INCLUDES NEW INTAKE SCREENS, NEW INTAKE PIPING, NEW INTAKE SCREEN FOUNDATION, VALVE REPLACEMENT, AIRBURST SYSTEM UPGRADES, AND MINOR STREAMBANK STABILIZATION.

THE PROJECT WILL INCLUDE DEMOLITION, CLEARING, AND GRADING OF THE SITE BEFORE PROPOSED STRUCTURES ARE CONSTRUCTED. FLOWS WILL TRAVEL VIA OVERLAND FLOW TO THE ETOWAH RIVER AND WILL NOT BE CONCENTRATED.

PROJECT INFORMATION

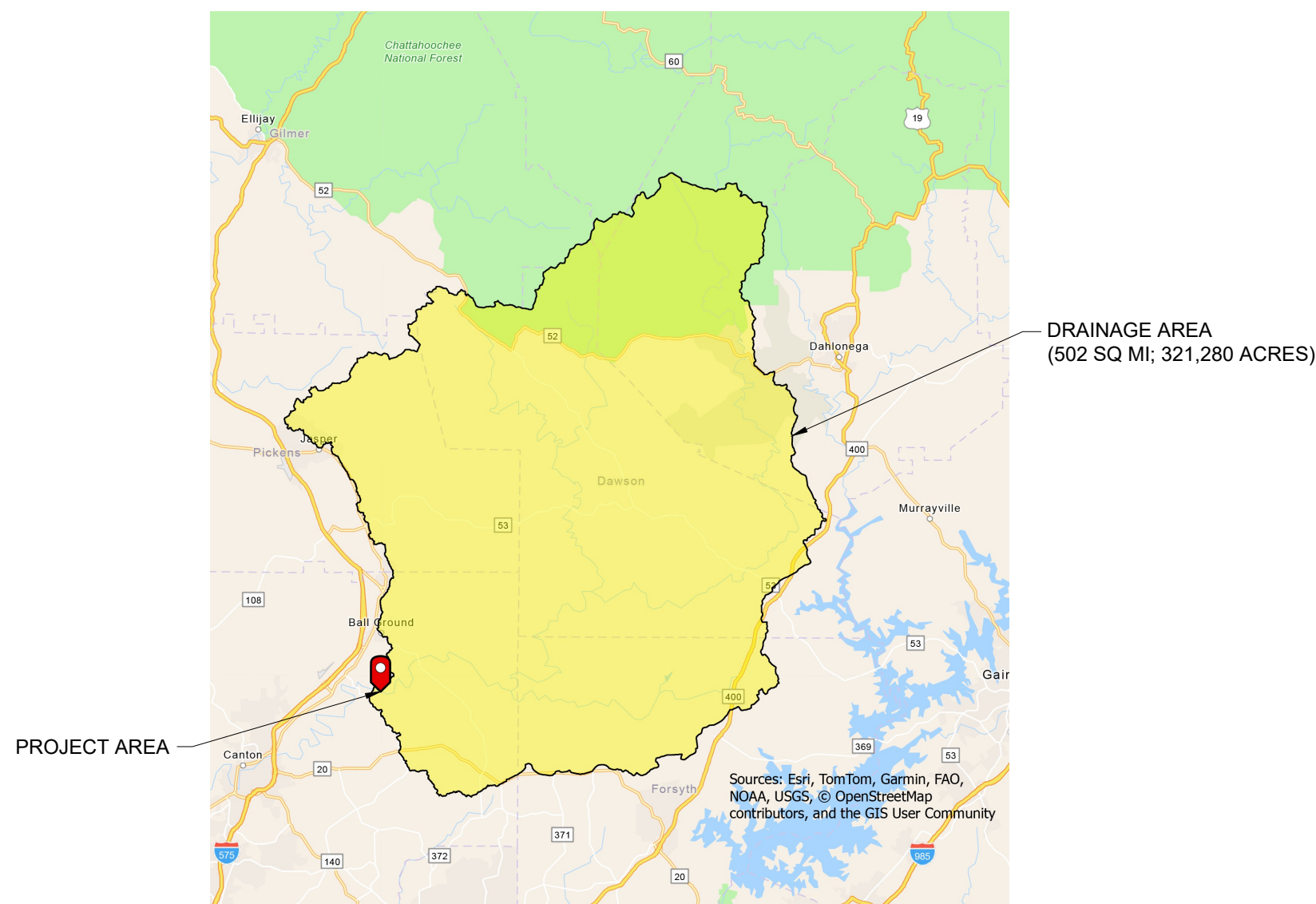
- | | | |
|-----|--|--|
| 6 | 1. TOTAL PROJECT AREA: .82 ACRES
DISTURBED AREA, ALL PHASES: 0.82 ACRES | |
| ✓48 | | |
| 7 | 2. CONSTRUCTION EXIT COORDINATES:
CO - LATITUDE: 34.295864° LONGITUDE: -84.376769° | |
| ✓47 | | |
| ✓42 | | |
| ✓41 | | |
| 5 | 3. ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN IDENTIFIED AND WILL BE PROTECTED BY APPROPRIATE EROSION CONTROL MEASURES. SEE DWG EC-01 FOR DELINEATION. | |
| ✓16 | | |
| 4 | 6. WORK IS TO BE PERFORMED UNDER A USACE NATIONAL WIDE PERMIT 3(A) (MAINTENANCE TO EXISTING STRUCTURE). MAINTENANCE: REPAIR, REHABILITATION, OR REPLACEMENT OF PREVIOUSLY AUTHORIZED CURRENTLY SERVICABLE STRUCTURES. A PRE-CONSTRUCTION NOTIFICATION (PCN) IS REQUIRED. A GAEPD STREAM BUFFER VARIANCE IS REQUIRED PER O.C.G.A. RULE 391-3-7-.05(1)(b), AS THE PROJECT REQUIRES WORK WITHIN THE 50' STREAM BUFFER. | |
| ✓45 | | |
| 7 | PRE-DEVELOPMENT CN = POST-DEVELOPMENT CN
POST CONSTRUCTION DETENTION IS NOT REQUIRED AS LESS THAN 5,000 SF OF IMPERVIOUS SURFACE IS BEING ADDED TO SITE. | |
| ✓43 | | |
| 11 | 8. CONTRIBUTING DRAINAGE AREA TO THE INTAKE STRUCTURE FOR ETOWAH RIVER IS 502 SQ MILES. THE OVERLAND FLOW THROUGH THE PROJECT AREA TO ETOWAH RIVER IS 15.6 ACRES. | |
| ✓ | | |
| 49 | 9. RECEIVING WATERS AND SENSITIVE AREAS:
• THE RECEIVING WATERS OF THIS PROJECT IS THE ETOWAH RIVER, A PART OF THE COOSA BASIN.
• ETOWAH RIVER IS AN IMPAIRED STREAM SEGMENT AS DEFINED BY THE 2024 GEORGIA EPD 305(B)(303/D) LIST. A TMDL IMPLEMENTATION PLAN FOR FECAL COLIFORM, WAS COMPLETED FOR ETOWAH RIVER IN 2009. | |
| 49 | 10. THE TOPOGRAPHY OF THE SITE, LOCATION OF THE WORK, AND LOCATION OF ADDITIONAL SITE CONSIDERATIONS LIMIT THE ABILITY TO EFFECTIVELY INCORPORATE A TEMPORARY SEDIMENT BASIN TO TREAT SEDIMENT POLLUTION. TO MEET THE GOALS OF LIMITING SEDIMENT POLLUTION, THE SEDIMENT CONTROL PROGRAM WILL BE AUTHORIZED BY THE CONTRACTOR BY LIMITING LAND DISTURBANCE ACTIVITY TO SPECIFIED LOCATIONS UNTIL THE WORK IS COMPLETE AND AREA STABILIZED BEFORE MOVING TO THE NEXT AREA OF DISTURBANCE. | |

NO SIGNIFICANT TOPOGRAPHIC CHANGES ARE EXPECTED FOR THE PROPOSED PROJECT; PROPOSED GRADING AND DRAINAGE WILL MAINTAIN THE EXISTING GENERAL DRAINAGE PATTERN.

OWNER, PERMITTEE, AND 24-HOUR CONTACT INFORMATION

- NAME : CLINT BLACKWELL
EMAIL: CLINT@CCWSA.COM
COMPANY: CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY
ADDRESS: 110 RAILROAD STREET
CITY/ST/ZIP: CANTON, GA 30114
PHONE: (678) 313-6505

☒ 10 ☒ 43 VICINITY MAP



GENERAL

1. THIS PROJECT LIES WITHIN ZONE A, A DESIGNATED SPECIAL FLOOD HAZARD, PER FIRM FEMA PLAN 13057C0170E DATED JUNE 7, 2019.
2. ACCEPTANCE AND/OR SUBSEQUENT ACCEPTANCE OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CWSJA OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS, JURISDICTIONAL WATERS OF THE STATE, AREAS OF THREATENED/ENDANGERED SPECIES, OR AREAS OF HISTORICAL SIGNIFICANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY REGULATORY APPROVALS FOR ANY REMEDIATION OR CONSTRUCTION ACTIVITIES.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM WITH THE GUIDELINES OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL," LATEST EDITION.
4. MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. PRIMARY PERMITTEE MUST SUBMIT NOTICE OF INTENT (NOI) AT LEAST 14 DAYS PRIOR TO BEGINNING OF LAND DISTURBANCE ACTIVITIES.
6. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT UNDER NO CIRCUMSTANCES ANY SEDIMENT, TRASH, OR DEBRIS BE ALLOWED ON ADJACENT PROPERTIES, PUBLIC LANDS, OR OUTSIDE OF THE CONSTRUCTION LIMITS.
8. THE CONTRACTOR SHALL EMPLOY A DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (ESPPC), EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EDP HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE CONTRACTOR WITHIN SEVEN (7) DAYS AFTER THE INSPECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL, UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.
9. EROSION AND SEDIMENT CONTROL WILL BE PERFORMED IN ACCORDANCE WITH THE BMPs SHOWN IN THESE PLANS.
10. EROSION AND SEDIMENT CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED; ADDITIONAL DEVICES MAY BE REQUIRED AS NECESSARY.
11. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
12. ALL DISTURBING WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOIL TO EROSION.
13. CONSTRUCTION ROAD SHALL BE TOP DRESSED WITH ADDITIONAL GRAVEL PERIODICALLY TO MAINTAIN GRAVEL DEPTH OF 6 INCHES.
14. A CWSJA LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON-SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A COUNTY ROAD OR STREET.
15. THE COMPLETE PORTION OF THE ESPPC PLAN SHALL BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY CONDUCTING ANY CONSTRUCTION ACTIVITY. THE SECONDARY PERMITTEE SHALL BE RESPONSIBLE FOR NOTIFYING THE CONTRACTOR OF THE NAME AND ADDRESSES OF ANY SECONDARY PERMITTEES THAT SHALL BE PROVIDED TO CWSJA PRIOR TO THE SECONDARY PERMITTEE CONDUCTING ANY CONSTRUCTION ACTIVITY.

REQUIRED NOTES

- | | |
|-----|--|
| ✓15 | 1. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. |
| ✓19 | 2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES. |
| ✓20 | 3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. |
| ✓21 | 4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. |

STORMWATER DISCHARGE POLLUTANT REDUCTION

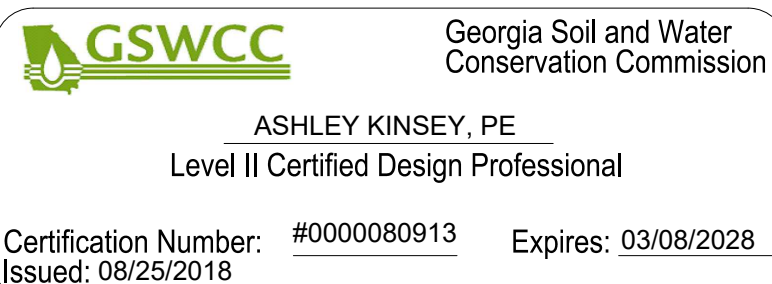
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|--|--|--|
| 1. | ALL POLLUTANTS FROM WASTE DISPOSAL PRACTICES, SOIL ADDITIVES, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK WASHOUT, ETC., SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BEST MANAGEMENT PRACTICES. | |
| 2. | THE SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS. | |
| | PRODUCT SPECIFIC REQUIREMENTS: | |
|  25 | 3A. PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER AND BE PROTECTED BY AN OVERHEAD PROTECTIVE STRUCTURE. ALL FUELS AND LUBRICANTS ARE PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS. | |
| | 3.B. PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. | |
|  24 | 3.C. CONCRETE TRUCK WASHOUT - WASHOUT WILL BE ALLOWED TO DRAIN OR WASH OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. | |
| 3.D. | FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWC MANUAL FOR EROSION AND SEDIMENT CONTROL. IN GEORGIA, ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS. | |
| 3.E. | BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES. | |

POLLUTION CONTROL

- | | |
|--|---|
| | <ol style="list-style-type: none"> 1. OFF-SITE VEHICLE TRACKING DIRT, SOILS, AND SEDIMENTS, AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE FOLLOWING BMPs SHALL BE IMPLEMENTED AS APPROPRIATE: CONSTRUCTION EXIT (C0), MULCH (D01), VEGETATIVE COVER (D02) (D03), DUST CONTROL (DU), SOLE STABILIZATION (SS), TREE PROTECTION FENCE (T1), SILT FENCE (S01), TURBIDITY CURTAIN (T2). 2. CONTRACTOR SHALL SELECT A DESIGNATED WASTE COLLECTION AREA AND PROVIDE LIDS FOR WASTE CONTAINMENT. SOLID WASTE SHALL BE REMOVED AND DISPOSED OFF-SITE AT A REGULAR SCHEDULE. 3. ALL WASTEWATER AND FROM CONSTRUCTION ACTIVITIES AND/OR CLEANING OPERATIONS SHALL NOT BE DISCHARGED ON THE GROUND OR STORMWATER SYSTEM. 4. OFF-SITE VEHICLE TRACKING OF SEDIMENT. <ol style="list-style-type: none"> 4.A. A STABILIZED STONE PAD WILL BE LOCATED AT THE CONSTRUCTION ENTRANCE TO REDUCE TRANSPORT OF MUD FROM THE CONSTRUCTION SITE. 4.B. THE STONE PAD WILL BE PERIODICALLY DRESSED, MUD AND DEBRIS TRACKED OR SPILLED ONTO ROADWAYS WILL BE REMOVED IMMEDIATELY. 4.C. CONTRACTOR WILL CONTROL SURFACE AND AIR MOVEMENT OF DUST BY SPRAYING WATER ONTO DISTURBED SOIL. 5. MATERIALS HANDLING/STORAGE: <ol style="list-style-type: none"> 5.A. ALL BUILDING MATERIALS AND PRODUCTS STORED ON-SITE SHALL BE TIED DOWN AND/OR COVERED TO PROVIDE PROTECTION FROM UV DAMAGE, WIND, AND RAIN. 6. SANITARY WASTES <ol style="list-style-type: none"> 6.A. ONE PORTABLE SANITARY UNIT WILL BE PROVIDED TO EVERY TEN (10) WORKERS ON THE SITE (MINIMUM). ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS ONE TIME PER WEEK (MINIMUM) BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS. 6.B. ALL SANITARY WASTE UNITS WILL BE LOCATED WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT ELEMENTS, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. |
|--|---|

25 SPILL CLEANUP AND CONTROL PRACTICES

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
3. SPILL PREVENTION PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.
4. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
 - A. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
 - B. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
 - C. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
 - D. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
5. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL, WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE THIS INCLUDES THE AMOUNT OF ESSENTIAL EQUIPMENT HAS A CAPACITY OF MORE THAN 680 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.



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✓²⁹ ANTICIPATED CONSTRUCTION SCHEDULE

ACTIVITY	MONTH							
	1	2	3	4	5	6	7	8
NOTICE TO PROCEED								
INSTALLATION OF EROSION CONTROL PRACTICES								
EROSION CONTROL MAINTENANCE, TEMPORARY VEGETATION								
CLEARING, GRUBBING, ROUGH GRADING								
STRUCTURE INSTALLATION, FINAL GRADING								
EARTHMOVING OPERATIONS AND STRUCTURAL INSTALLATION								
TEMPORARY AND PERMANENT VEGETATION AND LANDSCAPING								
CLEAN-UP								

CONSTRUCTION ACTIVITIES ARE EXPECTED TO BEGIN IN SEPTEMBER, 2026.

GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

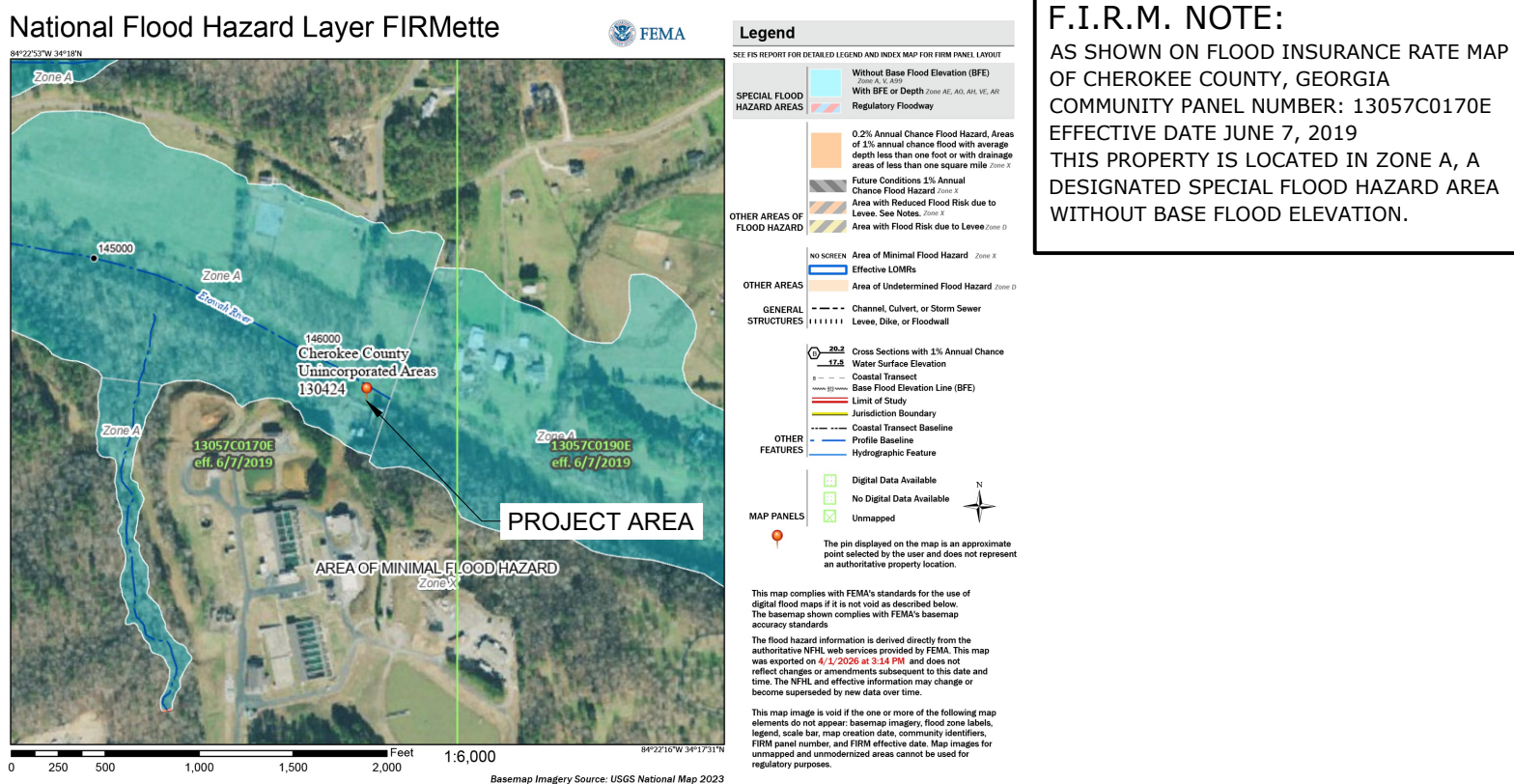
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction exit exit to provide a place for removing mud from tires thereby protecting public streets.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Tc	TURBIDITY CURTAIN			A floating or stacked barrier installed within the water (it may also be referred to as a water curtain, silt barrier, or silt curtain).

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

GaSWCC (Amended - 2013)

FIRM FLOOD INSURANCE RATE MAP



F.I.R.M. NOTE:
AS SHOWN ON FLOOD INSURANCE RATE MAP
OF CHEROKEE COUNTY, GEORGIA
COMMUNITY PANEL NUMBER: 13057C0170E
EFFECTIVE DATE JUNE 7, 2019
THIS PROPERTY IS LOCATED IN ZONE A, A
DESIGNATED SPECIAL FLOOD HAZARD AREA
WITHOUT BASE FLOOD ELEVATION.

[illegible]

NOTES:

1. REMOVE DISCONNECT SWITCHES, LOCAL CONTROL PANELS, AND ALL WIRING ASSOCIATED WITH DEMOLISHED EQUIPMENT TO THE POWER SOURCE, UNLESS OTHERWISE NOTED. REMOVE ALL ASSOCIATED EXPOSED CONDUITS. TAG ABANDONED BREAKERS AS SPARE.
2. EXISTING AIR LINES ARE SST THREADED JOINTS, WITH BACK WELDED JOINTS.
3. PRIOR TO REMOVAL OF EXISTING EQUIPMENT, CONTRACTOR SHALL VERIFY WITH OWNER WHICH EQUIPMENT IS TO BE MOVED TO A LOCATION ON SITE AS CHOSEN BY THE OWNER. IF TO BE DISPOSED, CONTRACTOR IS RESPONSIBLE FOR DISPOSAL IN A LEGAL MANNER AT AN OFF-SITE FACILITY.



REMOVE EX AIR COMPRESSOR AND RECEIVER. RETURN TO OWNER

REMOVE EXISTING EQUIPMENT PAD. SEE DEMOLITION NOTES ON S-01

PHOTO 1
NO SCALE M-01

REMOVE 2" ELECTRICALLY ACTUATED BALL VALVES AND REPLACE WITH 3" ELECTRICALLY ACTUATED BUTTERFLY VALVES (X3)



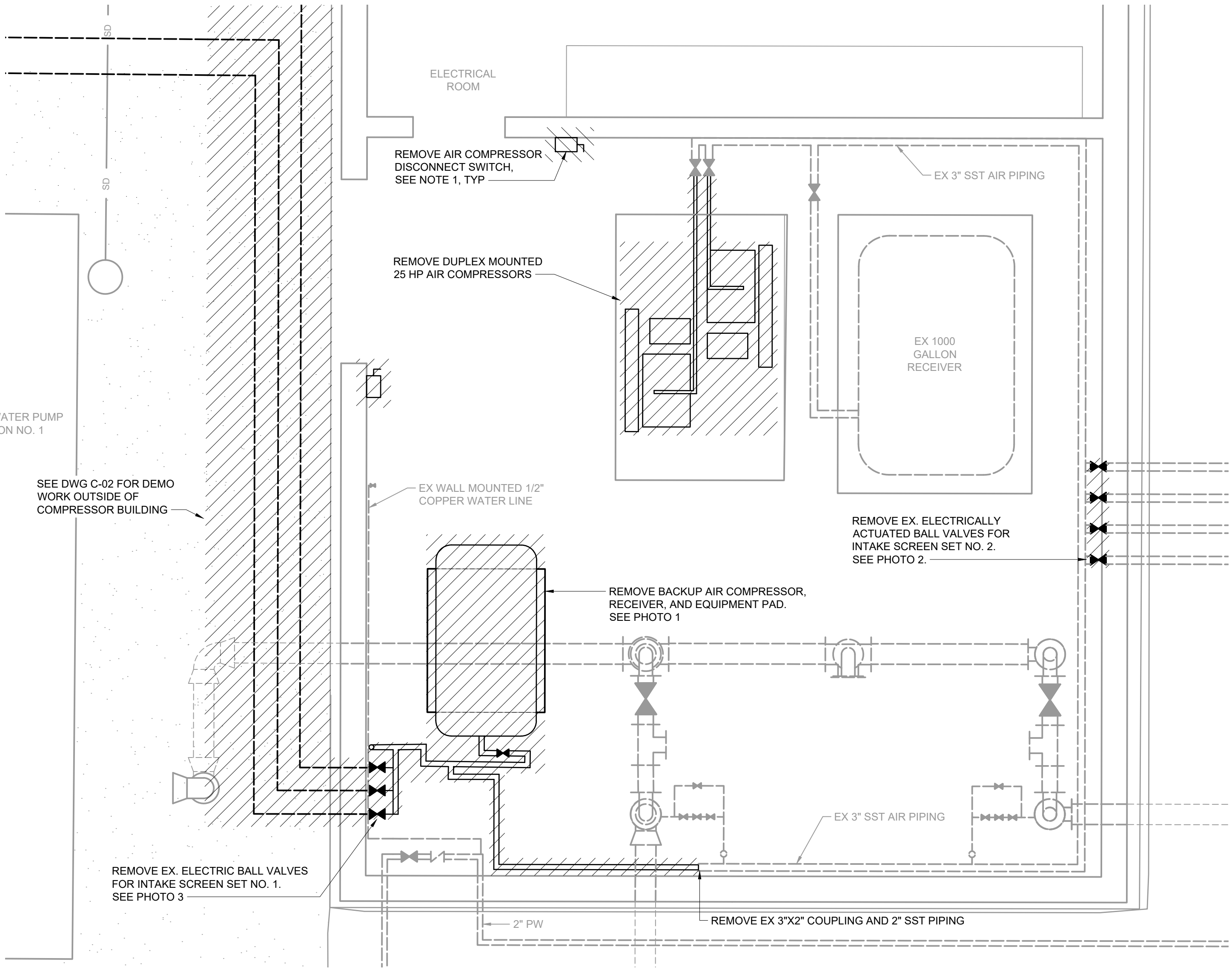
REMOVE 3" ELECTRICALLY ACTUATED BALL VALVES AND REPLACE WITH 3" ELECTRICALLY ACTUATED BUTTERFLY VALVES (X4). USE 3" SCH. 40 SST THREADED PIPE AND FITTINGS WITH BACK WELDED JOINTS AS REQUIRED.

PHOTO 2
NO SCALE M-01

REMOVE 2" SST PIPING AND VALVES AND REPLACE WITH 3" SCH 40 SST PIPING, 3" SST BALL VALVES (X10)

CUT PIPE FLUSH TO FLOOR AND PATCH FLOOR PENETRATIONS WITH NONSHRINK GROUT (X3)

PHOTO 3
NO SCALE M-01



PLAN
SCALE: 3/8" = 1'

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PLOT DATE: 7/1/2026 1:05 PM BY: TBRIA

1	BID	07/2026	G CJ
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	C. GOBLISCH
DRAWN BY:	J. GOMEZ PRADO
CHECKED BY:	C. CLARK
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

ISSUED FOR BID

2026.07.02 10:48:04-04'00"

Hazen

HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY

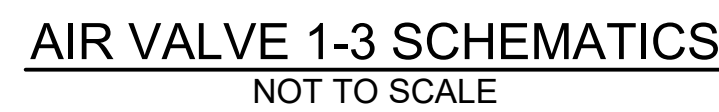
ETOWAH RIVER WTP INTAKE MODIFICATIONS

MECHANICAL
COMPRESSOR ROOM DEMOLITION PLAN

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	M-01



- REMOVE 3" ELECTRICALLY ACTUATED BALL VALVES AND REPLACE WITH 3" ELECTRICALLY ACTUATED BUTTERFLY VALVES (X4). USE SST PIPE AND FITTINGS AS REQUIRED. SEE PHOTO 2 ON DWG M-01 FOR REFERENCE.



PLAN
SCALE: 3/8" = 1'

				PROJECT ENGINEER: G. JOHNSON		ISSUED FOR BID		Hazen HAZEN AND SAWYER 211 PERIMETER CENTER PKWY SUITE 300 ATLANTA, GA 30346 GBPE LIC #: PEF003685 EXP: 6/30/2028	CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY	ETOWAH RIVER WTP INTAKE MODIFICATIONS	MECHANICAL COMPRESSOR ROOM PLAN	DATE: JULY 2026	
				DESIGNED BY: C. GOBLISCH								HAZEN NO.: 32462-009	
				DRAWN BY: J.GOMEZ PRADO								CONTRACT NO.: 1	
				CHECKED BY: C. CLARK								DRAWING NUMBER:	
1	BID		07/2026	GCJ	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE								
REV	ISSUED FOR		DATE	BY			2026.07.02 10:48:08-04'00"						

GENERAL STRUCTURAL NOTES

- G-1 THESE NOTES ARE GENERAL AND SUPPLEMENT THE SPECIFICATIONS. THESE NOTES APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- G-2 DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE WHICH IS THE 2024 INTERNATIONAL BUILDING CODE WITH THE 2026 GEORGIA AMENDMENTS. THE DESIGN LOADS AND OTHER DESIGN VALUES GIVEN IN NOTE G-3 AND G-4 WERE USED FOR DESIGN OF STRUCTURES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- G-3 LIVE LOADS: 150 PSF UNLESS NOTED OTHERWISE.
- G-4 FLOOD LOADS (IN ACCORDANCE WITH ASCE 7-22 SUPPLEMENT 2):
RISK CATEGORY: IV
DESIGN FLOOD MEAN RECURRENCE INTERVAL (MRI): 1,000-YEAR
- G-5 ALL DIMENSIONS INDICATED FOR EXISTING STRUCTURES SHALL BE VERIFIED BY FIELD MEASUREMENT. ALL DIMENSIONS THAT ARE CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER SHOP DRAWINGS PRIOR TO CONSTRUCTION.
- G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR NEW WORK.
- G-7 IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED.
- G-8 STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.
- G-9 STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.

DEMOLITION

- D-1 FOR DEMOLITION REQUIREMENTS, REFER TO SPECIFICATION 02 41 00 - SITE DEMOLITION.
- D-2 CONCRETE DEMOLITION WITHIN STRUCTURES BEING MODIFIED SHALL BE SELECTIVE DEMOLITION BY CORE DRILLING OR SAWCUTTING AND CAREFUL REMOVAL OF CONCRETE SHOWN TO BE REMOVED. NO OVER CUTTING OF AREAS TO BE DEMOLISHED SHALL BE PERMITTED. CONTRACTOR SHALL CORE DRILL CORNERS OF OPENING PRIOR TO SAWCUTTING. EXPLOSIVES AND VIBRATORY HAMMERS SHALL NOT BE USED FOR DEMOLITION WORK.
- D-3 UNLESS ANCHORING DEVICES AND/OR REINFORCEMENT IS NOTED TO REMAIN FOLLOWING DEMOLITION, REMOVE AND/OR BURN BACK ANCHORS AND REINFORCEMENT STEEL 1/2" MIN BELOW SURFACE AND VOIDS CREATED SHALL BE FILLED WITH EPOXY RESIN BINDER.
- D-4 CONCRETE SURFACES LEFT EXPOSED FOLLOWING DEMOLITION SHALL BE SEALED WITH EPOXY RESIN COATING SUCH AS DURALKOTE 240 BY EUCLID CHEMICAL, OR APPROVED EQUAL.
- D-5 EMBEDDED CONDUIT ENCOUNTERED DURING DEMOLITION WORK LIMITS SHALL BE PERMANENTLY REROUTED AS NECESSARY. CONTRACTOR SHALL SUBMIT PROPOSED MEANS OF REROUTING ANY INTERFERING CONDUIT.
- D-5 DETAILED CONSTRUCTION AND DEMOLITION PLAN SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED BY THE ENGINEER AND OWNER PRIOR TO BEGINNING CONSTRUCTION. ANY SHUTDOWNS SHALL BE SUBMITTED TO, COORDINATED WITH, AND APPROVED BY THE OWNER. ONCE APPROVED, CONTRACTOR SHALL PROVIDED A MINIMUM OF THREE (3) WEEKS NOTICE TO OWNER PRIOR TO SHUTDOWN.

EXISTING INFORMATION

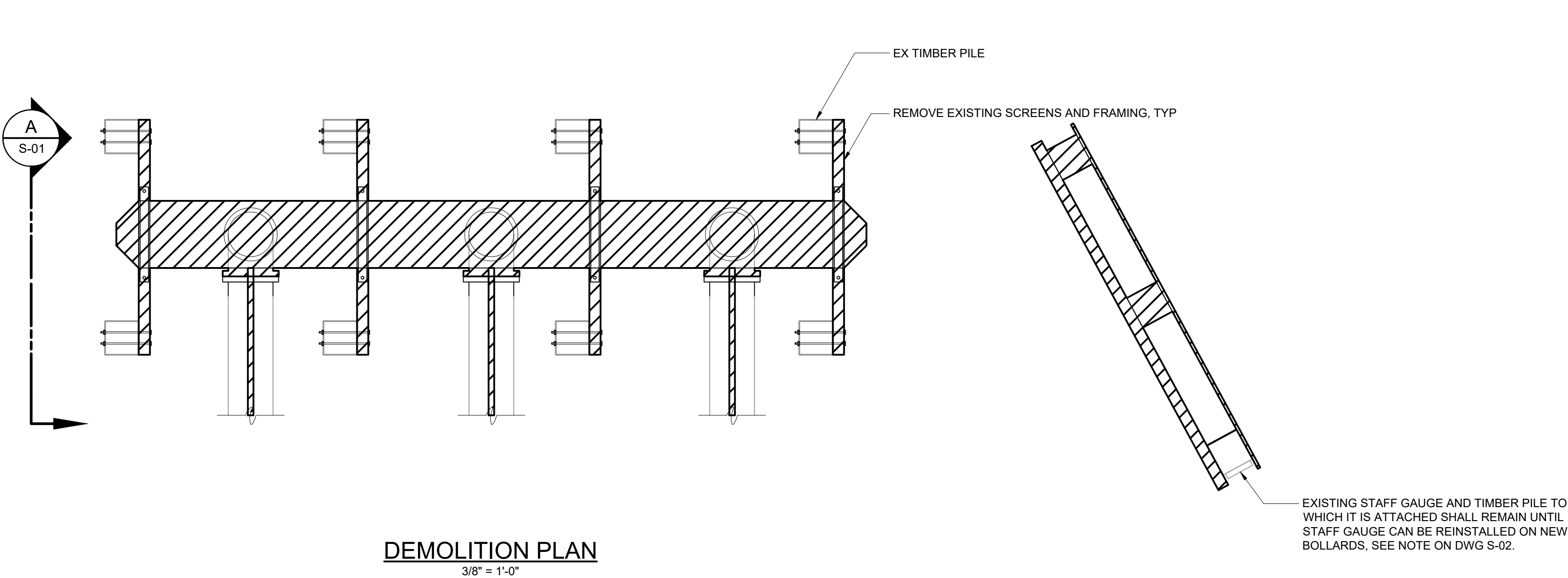
- X-1 ALL EXISTING INFORMATION SHOWN ON THESE DRAWINGS INCLUDING LOCATION, DIMENSIONS, ELEVATIONS, AND CONFIGURATIONS IS DERIVED FROM THE SEPTEMBER 1984, MARCH 1994, AND FEBRUARY 2004 RECORD DRAWINGS AND IS NOT GUARANTEED TO BE COMPLETE OR CORRECT.
- X-2 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR DEMOLITION AND MODIFICATIONS.

CONCRETE (CAST-IN-PLACE)

- C-1 DESIGN OF CONCRETE ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318 (CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND 350 (CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES).
- C-2 CONCRETE STRENGTH CLASSES (28-DAY COMPRESSIVE STRENGTH):
- A) CLASS A1 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED IN ALL STRUCTURES QUALIFYING AS ENVIRONMENTAL CONCRETE STRUCTURES, INCLUDING THE RIVER FOUNDATION SLAB, DESIGNED IN ACCORDANCE WITH ACI 350.
- B) CLASS A2 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE IN ALL STRUCTURES OTHER THAN DESCRIBED ABOVE, AND FOR ALL SIDEWALKS.
- C) CLASS A4 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED SPECIFICALLY WHERE REQUESTED BY CONTRACTOR AND APPROVED BY ENGINEER FOR PUMPING APPLICATIONS. CLASS A4 CONCRETE IS IDENTICAL TO CLASS A1 OR A2 CONCRETE EXCEPT THAT COARSE AGGREGATE SPECIFIED IN ARTICLE 2.08 OF SPECIFICATION SECTION 03 3110 SHALL BE SIZE #8 IN ACCORDANCE WITH ASTM C33.
- D) CLASS B CONCRETE (3,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE USED FOR FENCE AND GUARD POST EMBEDMENT, CONCRETE FILL, AND OTHER AREAS WHERE SPECIFICALLY NOTED ON DRAWINGS.
- C-3 ALL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- C-4 CONCRETE COVER FOR REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):
- A) CONCRETE DEPOSITED DIRECTLY AGAINST SOIL: 3"
- B) OTHER CONCRETE SURFACES EXPOSED TO EARTH, LIQUID, OR WEATHER: 2-1/2"
- C) CONCRETE SURFACES NOT EXPOSED TO EARTH, LIQUID OR WEATHER: VALUES IN B) ABOVE SHALL BE REDUCED BY 1/2"
- C-5 SPLICES SHALL BE CLASS "B" CONFORMING TO THE PROVISIONS OF ACI 318 UNLESS NOTED OTHERWISE. SPLICE LENGTH FOR TWO DIFFERENT SIZED BARS TO BE LAP SPliced TOGETHER SHALL BE THE LENGTH OF THE LARGER BAR UNLESS NOTED OTHERWISE.
- C-6 ALL EXPOSED CORNERS SHALL HAVE A 3/4" CHAMFER.
- C-7 EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE INSTALLED PRIOR TO PLACING CONCRETE.
- C-8 REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2" SHALL BE PROVIDED.
- C-9 CLEAR DISTANCE FROM ADHESIVE DOWELS TO ANY CONCRETE EDGE SHALL BE 4" MINIMUM.

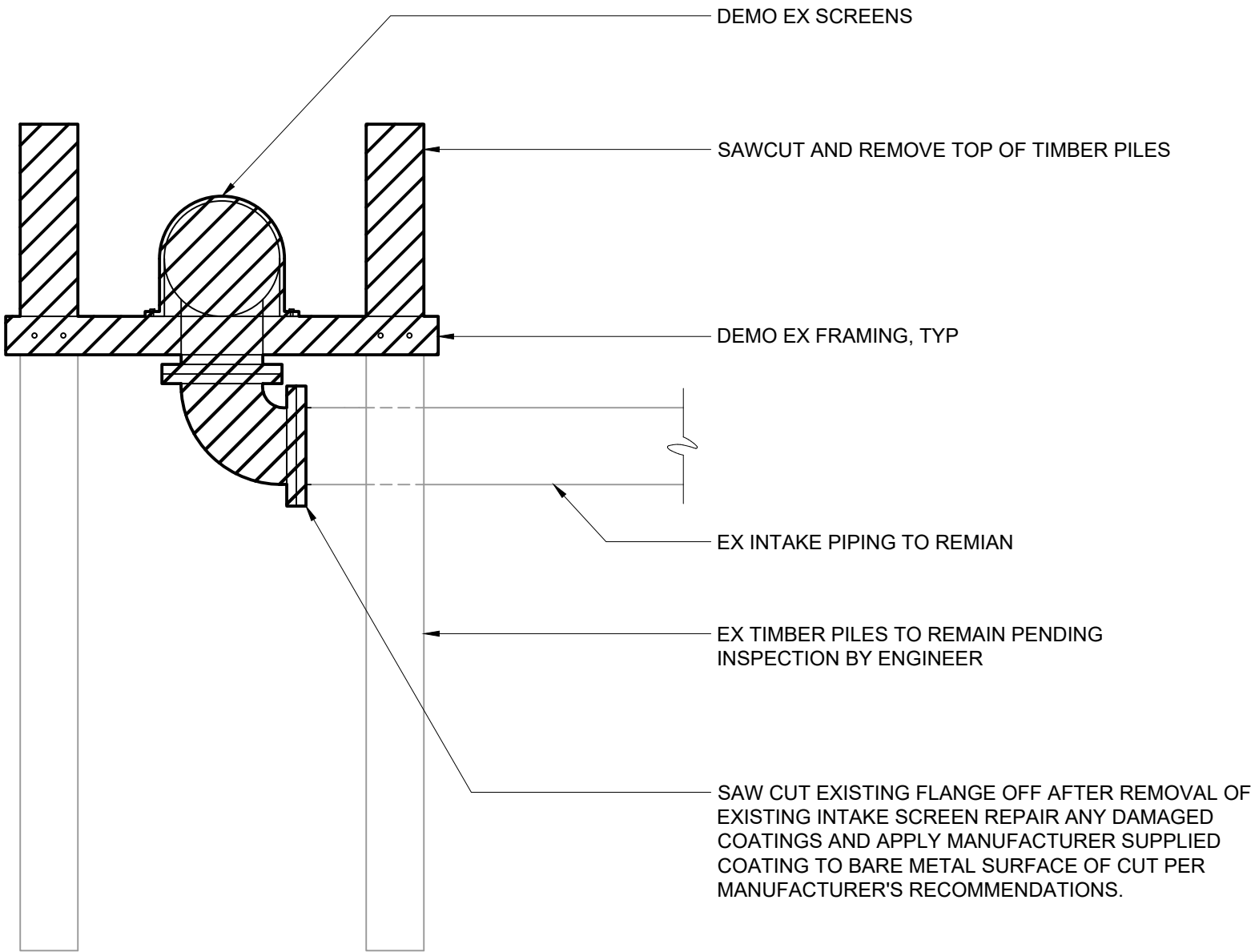
NOTES:

1. ALL DIMENSIONS SHOWN ARE BASED ON RECORD DRAWINGS AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. ALL DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.



DEMOLITION PLAN

3/8" = 1'-0"



SECTION

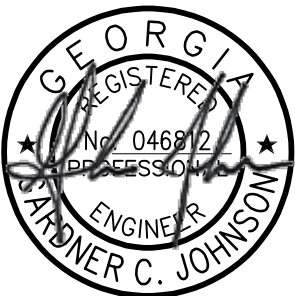
3/8" = 1'-0"

A S-01

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				PROJECT ENGINEER:	G. JOHNSON
				DESIGNED BY:	G. JOHNSON
				DRAWN BY:	L. RICH
				CHECKED BY:	F. POWELL
1	BID	07/2026	GCJ	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
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Hazen

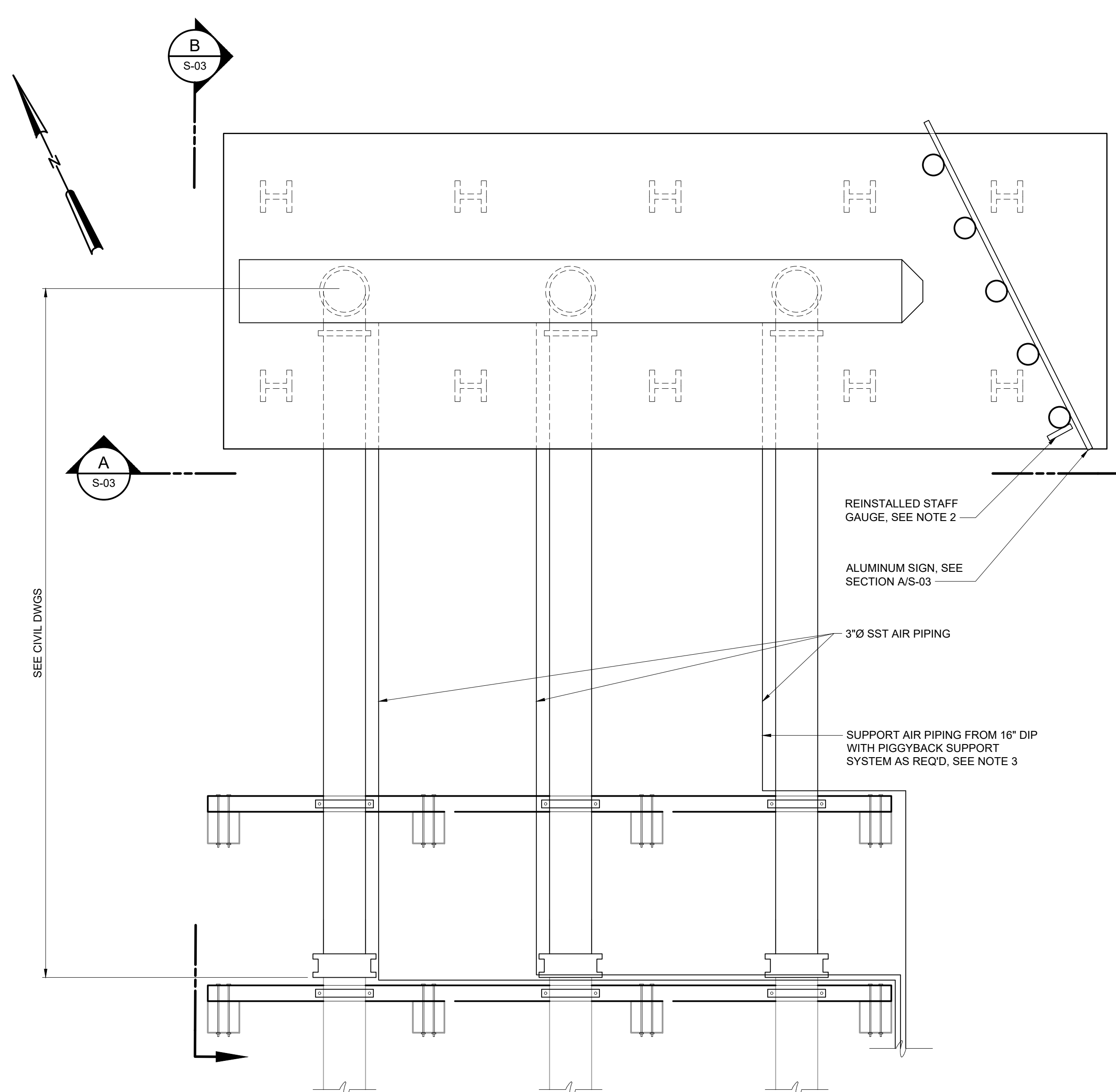
HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

CHEROKEE COUNTY WATER AND
SEWERAGE AUTHORITY

ETOWAH RIVER WTP
INTAKE MODIFICATIONS

STRUCTURAL
INTAKE STRUCTURE
GENERAL NOTES AND DEMOLITION PLAN

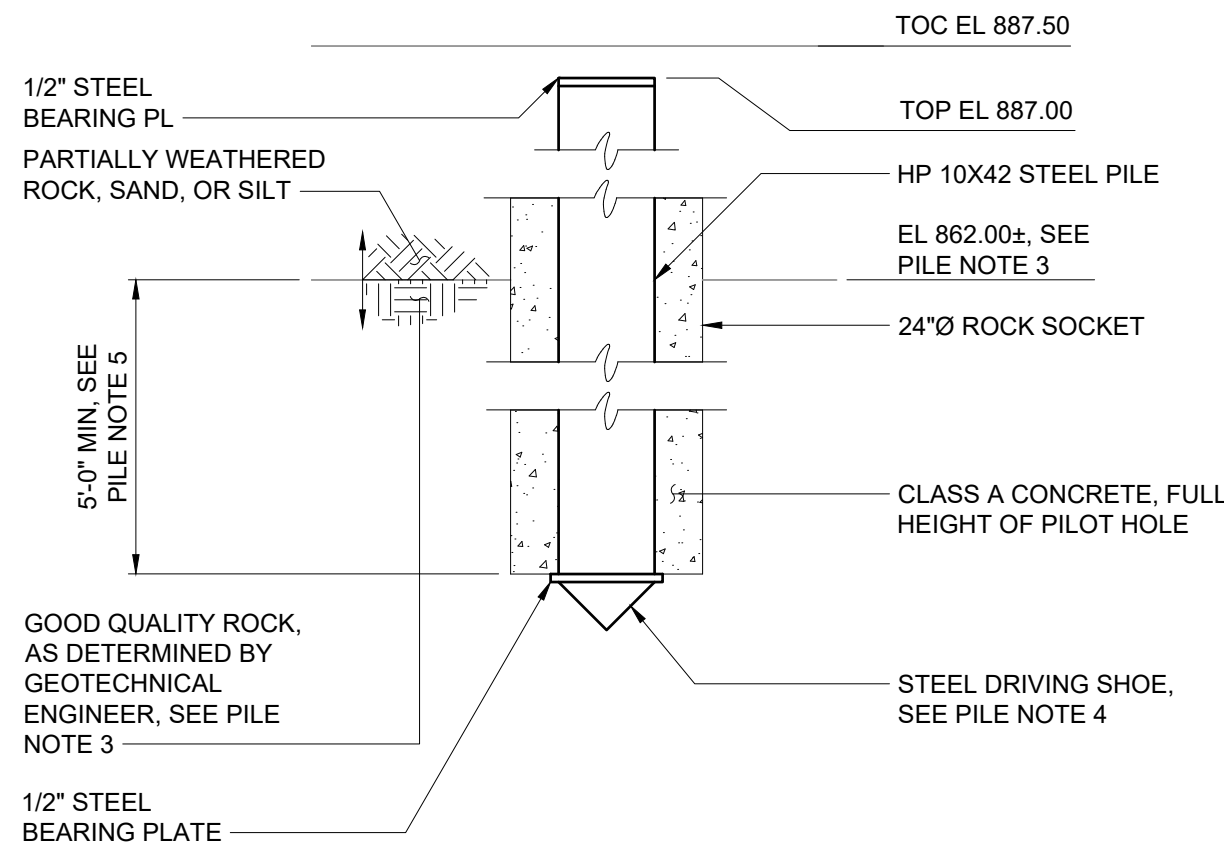
DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	S-01



1. **TIMBER BEAMS SHALL BE PRESSURE TREATED. USE CATEGORY UC5B OR UC5C, WITH A TREATMENT RATE OF 2.5 PCF CCA, AND SPECIFICALLY RATED FOR MARINE SUBMERGENCE.**
2. **STAFF GAUGE SHALL BE PROTECTED AND REMAIN READABLE THROUGHOUT THE DURATION OF CONSTRUCTION. THE STAFF GAUGE SHALL REMAIN AT THE EXISTING LOCATION ON TIMBER PILE UNTIL THE NEW BOLLARDS ARE INSTALLED AND READY FOR STAFF GAUGE ATTACHMENT. REMOVAL AND REINSTALLATION OF STAFF GAUGE SHALL OCCUR ON THE SAME DAY. THE CONTRACTOR SHALL SURVEY THE PRECISE ELEVATION OF THE STAFF GAUGE AND REINSTALL AT THE SAME ELEVATION AT THE NEW LOCATION.**
3. **PIGGYBACK SYSTEM SHALL BE MOULDED, MARINE GRADE POLYPROPYLENE SADDLES BY CRP SUBSEA OR EQUAL.**

PLAN
3/8" = 1'-0"

1. STEEL PILES SHALL BE HP 10X42 SECTIONS, A-572 STEEL AND IN ACCORDANCE WITH SPECIFICATION 31 62 16 - STEEL H-PILES.
2. STEEL H-PILES INSTALLED AS REQUIRED TO DEVELOP MINIMUM ALLOWABLE VERTICAL DOWNWARD LOAD OF 10 TONS. THE ULTIMATE CAPACITY FOR THE PILES SHALL BE 20 TONS DOWNWARD.
3. PILE TIP ELEVATION IS ESTIMATED FOR BIDDING PURPOSES. ACTUAL PILE LENGTHS WILL VARY AS REQUIRED TO REACH GOOD QUALITY ROCK PLUS A MINIMUM OF 5'-0" ROCK SOCKET. GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE DRILLED PIER OPERATIONS IN ORDER TO IDENTIFY THE PROPER BEARING STRATUM. THE CONTRACTOR'S BASE BID SHALL INCLUDE INSTALLATION OF THE STEEL H-PILES TO THE DEPTH SHOWN IN DETAIL 1. PILES INSTALLED LOWER THAN THE ELEVATION SHOWN, AS APPROVED BY GEOTECHNICAL ENGINEER, WILL BE PAID BY UNIT PRICE IF THE TOTAL LENGTH OF ALL PILES INSTALLED EXCEEDS THE TOTAL PILE LENGTH SHOWN OF 300 LF. THE COST FOR THE INSTALLED AND APPROVED EXTRA LENGTH OF PILE WILL BE PAID PER UNIT PRICE BID ITEM 3.2 AS SPECIFIED IN SECTION 01 20 00 - MEASUREMENT AND PAYMENT.
4. THE ROCK SOCKET MUST BE CLEAN AND FREE OF DEBRIS. THE PILE MUST BE SEATED AT THE BOTTOM OF THE PILOT HOLE BY STRIKING IT WITH A WARM PILE HAMMER. THE PILE IS SEATED WHEN 0.25" OF MOVEMENT OR LESS IS OBSERVED IN 5 BLOWS.
5. DEPENDING ON ACTUAL CONDITIONS, THE ROCK SOCKET MAY NEED TO BE EXTENDED LONGER THAN 5'-0". THE QUALITY OF THE ROCK SHALL BE EVALUATED AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER TO VALIDATE ROCK SOCKET DESIGN ASSUMPTIONS.



REMOVE AND REINSTALL STAFF
GAUGE ON NEW BOLLARD, DEMOLISH
TIMBER PILE AFTER STAFF GAUGE IS
RELOCATED, SEE NOTE 2 _____

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	G. JOHNSON
DRAWN BY:	L. RICH
CHECKED BY:	F. POWELL
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0  1/2" 1"

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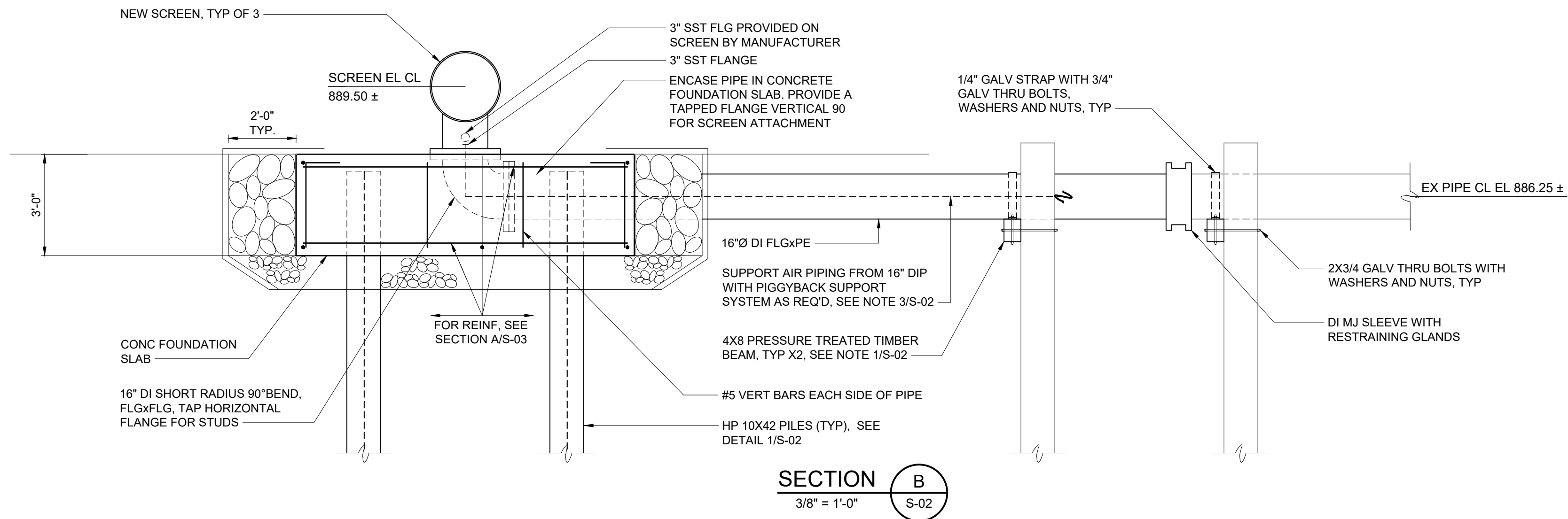
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HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

ETOWAH RIVER WTP INTAKE MODIFICATIONS

STRUCTURAL INTAKE STRUCTURE PLANS AND PILE DETAIL

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	S-02

1. ALUMINUM SIGNS SHALL BE 11W X 1H ALUMINUM COMPOSITE MATERIAL SIGN WITH TWO, PRE-PAINTED 0.20MM ALUMINUM PANELS BONDED TO A SOLID POLYETHYLENE CORE, MAXMETAL PLUS BY GRIMCO OR APPROVED EQUAL. SIGNS SHALL FACE UPSTREAM. SIGNS SHALL BE ANCHORED TO EACH BOLLARD WITH A 3/4"Ø WEDGE ANCHOR, TYPE 316 SST.
2. NON-WOVEN GEOTEXTILE TO BE PLACED BETWEEN RIPRAP AND NATIVE SOILS. GEOTEXTILE TO EXTENT AND FOLD 3 -FT OVER TOP OF RIPRAP.



				PROJECT ENGINEER:	G. JOHNSON
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REV	ISSUED FOR	DATE	BY		

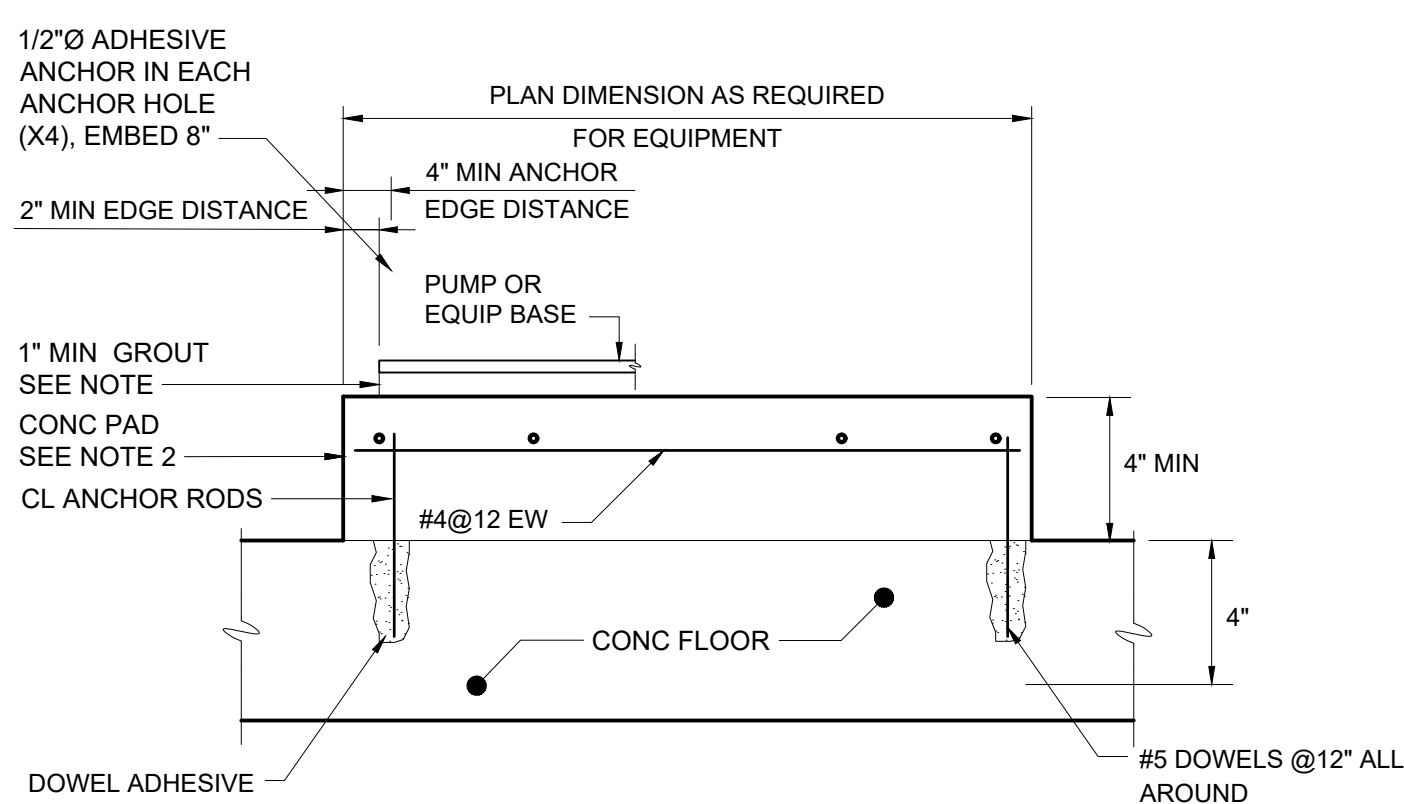
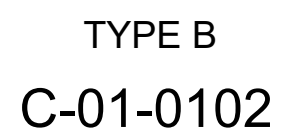
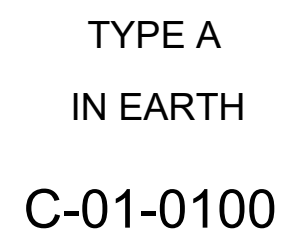
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HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 30
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

ETOWAH RIVER WTP INTAKE MODIFICATIONS

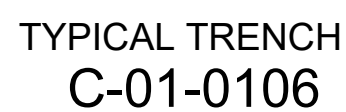
STRUCTURAL INTAKE STRUCTURE SECTIONS

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	S-03



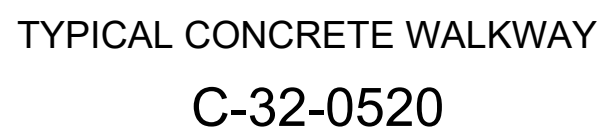
- NOTES:
1. THE CONTRACTOR SHALL PROVIDE 1" MINIMUM GROUT FOR PUMPS AND SIMILAR EQUIPMENT TO MEET EQUIPMENT MANUFACTURER'S UNIFORM BEARING AND LEVELING REQUIREMENTS.
 2. CONCRETE PAD CONCRETE MIX SHALL BE 5,000 PSI SITE-MIXED CONCRETE, CONSISTING OF A PREBLEND MIXTURE OF SAND, COARSE AGGREGATE, AND A CEMENTITIOUS MATERIAL. THE PRODUCT SHALL BE A CONCRETE MIX 5000, SAKRETE 5000 PLUS CONCRETE MIX, OR APPROVED EQUAL. SURFACE PREPARATION, MIXING, APPLICATION AND CURING SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. FINISH SHALL BE A SMOOTH RUBBED FINISH.

EQUIPMENT PAD
S-03-0504



TRENCH EXCAVATION LIMITS		
INTERNAL DIAMETER OF PIPE	W	
	MAX	W=MIN
4"-6"	3'-9"	2'-0"
8"-10"	3'-9"	2'-2"
12"	3'-9"	O.D.+2'
14"-16"	4'-2"	O.D.+2'
18"	4'-4"	O.D.+2'
20",21"	4'-8"	O.D.+2'
24"	4'-11"	O.D.+2'
27"	5'-9"	O.D.+2'
30"	6'-7"	O.D.+2'
36"	7'-4"	O.D.+2'
42"	8'-2"	O.D.+2'
48"	8'-9"	O.D.+2'
54"	9'-4"	O.D.+2'
60"	9'-10"	O.D.+2'
72"	11'-0"	O.D.+2'
78"	11'-8"	O.D.+2'
84"	12'-0"	O.D.+2'
90"	12'-6"	O.D.+2'
96"	13'-0"	O.D.+2'
108"	14'-0"	O.D.+2'
DEPTH OF CUT	S	
	MAXIMUM PAVEMENT REPLACEMENT WIDTH	
0-6'	S=W+4'	
>6-8'	S=W+8'	
>8-10'	S=W+12'	
>10-12'	S=W+16'	
>12-14'	S=W+20'	
>14-16'	S=W+24'	
>16-18'	S=W+28'	
>18'	S=W+32'	
W = TRENCH WIDTH AT BOTTOM OF PIPE. TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.		

C-01-0107

[illegible]

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	C. GOBLISCH
DRAWN BY:	J.GOMEZ PRADO
CHECKED BY:	C. CLARK
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1" 

ISSUED FOR BID



2026.07.02 10:34:00-04'00'

Hazen

HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

CHEROKEE COUNTY WATER AND
SEWERAGE AUTHORITY

ETOWAH RIVER WTP INTAKE MODIFICATIONS

STANDARD DETAILS

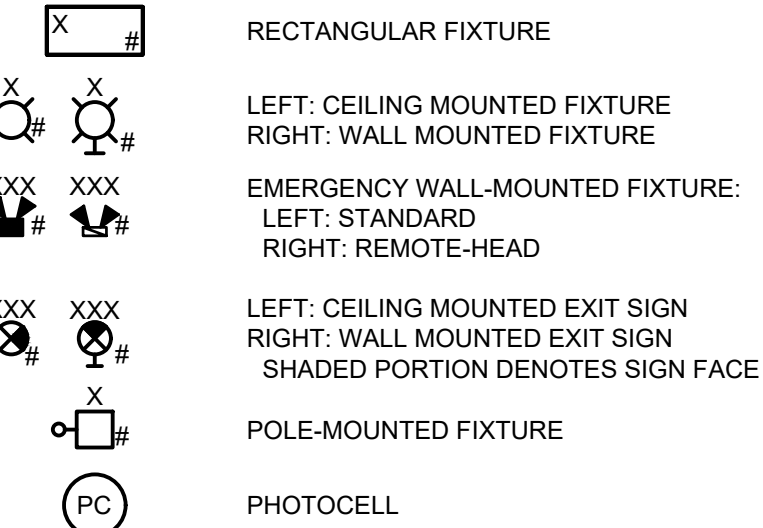
CIVIL, MECHANICAL, AND STRUCTURAL

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	D-01

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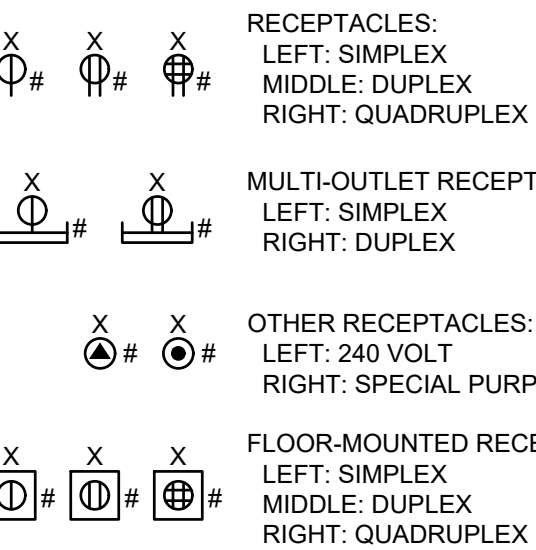
LIGHTING

X DENOTES FIXTURE TYPE (TYP.)
SEE SPECIFICATION 26 50 00 FOR FIXTURE SCHEDULE
DENOTES CIRCUIT NUMBER (TYP.)
POSITIONS OF X# MAY VARY WITH RESPECT TO SYMBOL

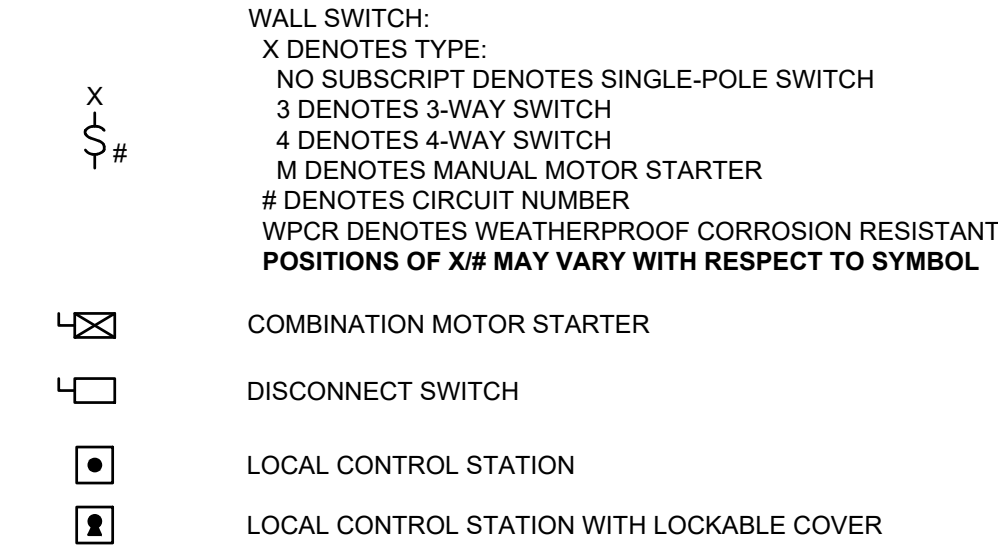


RECEPTACLES

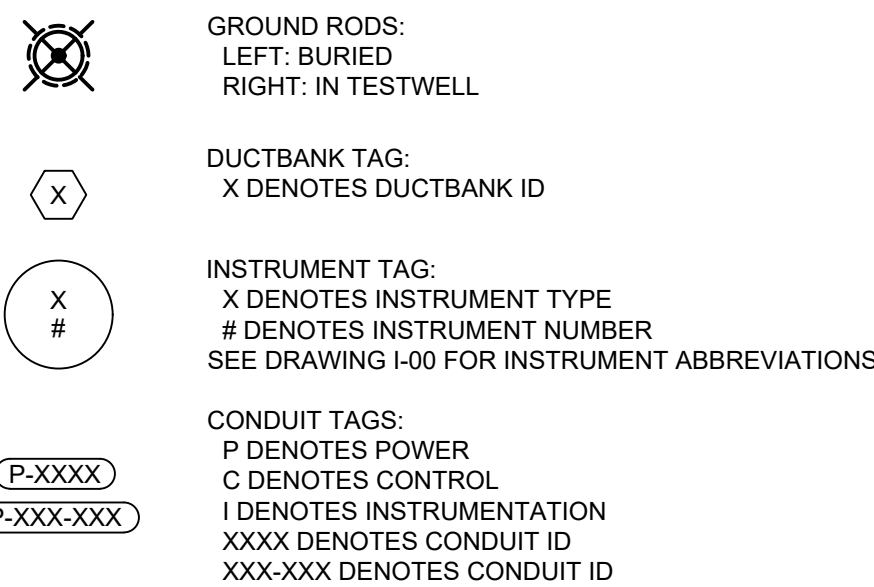
X DENOTES RECEPTACLE TYPE (TYP.):
GFCI DENOTES GROUND FAULT CIRCUIT INTERRUPT
UPS DENOTES UNINTERRUPTIBLE POWER SUPPLY
WPCR DENOTES WEATHERPROOF CORROSION RESISTANT
DENOTES CIRCUIT NUMBER (TYP.)
POSITIONS OF X# MAY VARY WITH RESPECT TO SYMBOL



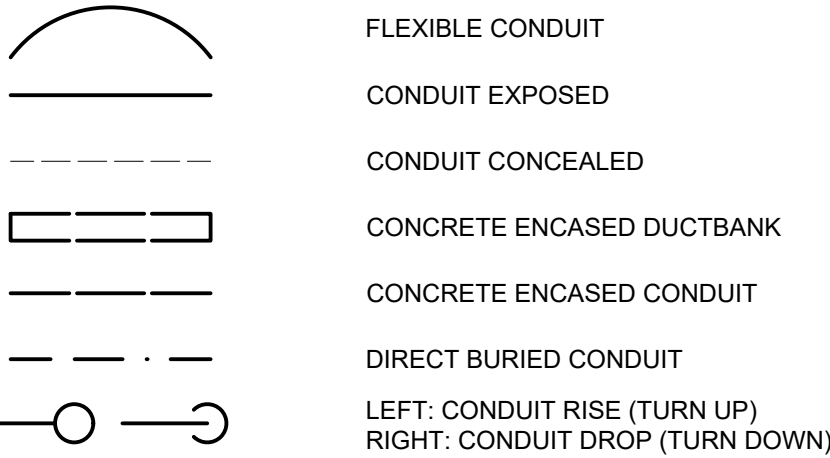
SWITCHES



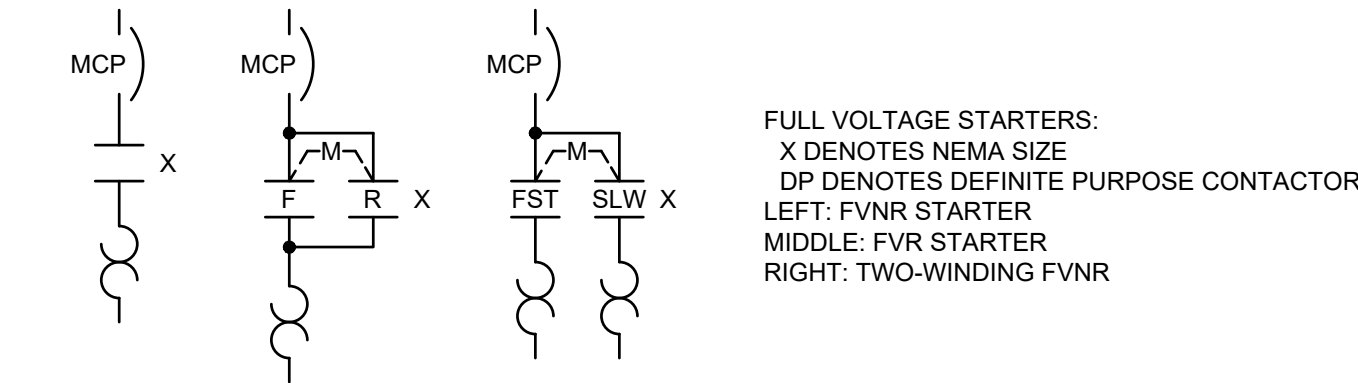
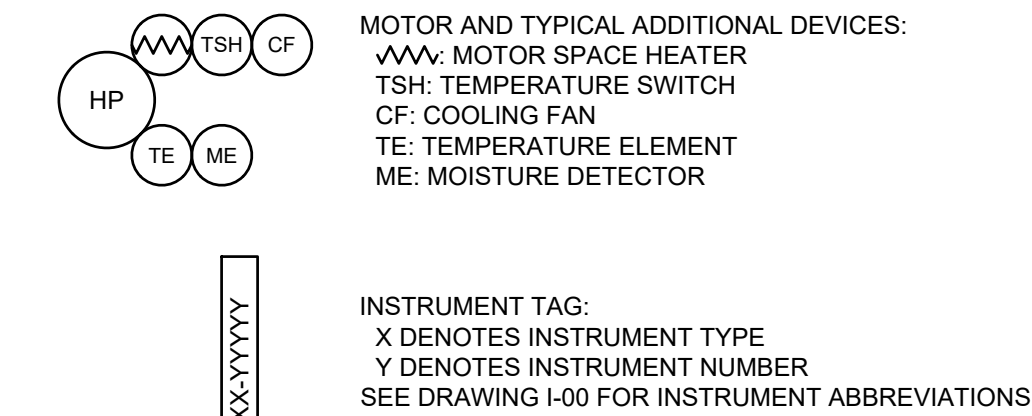
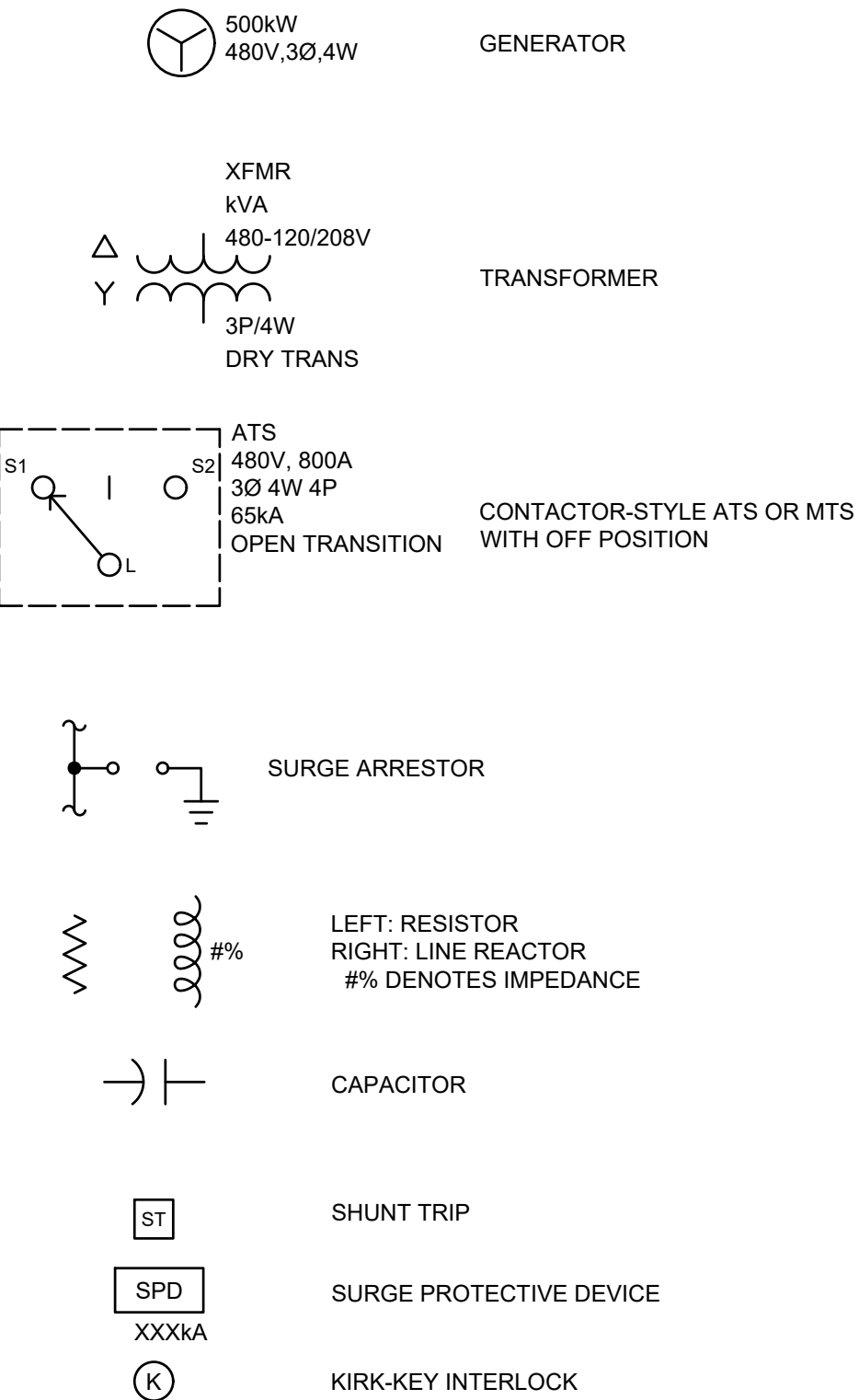
MISCELLANEOUS SYMBOLS



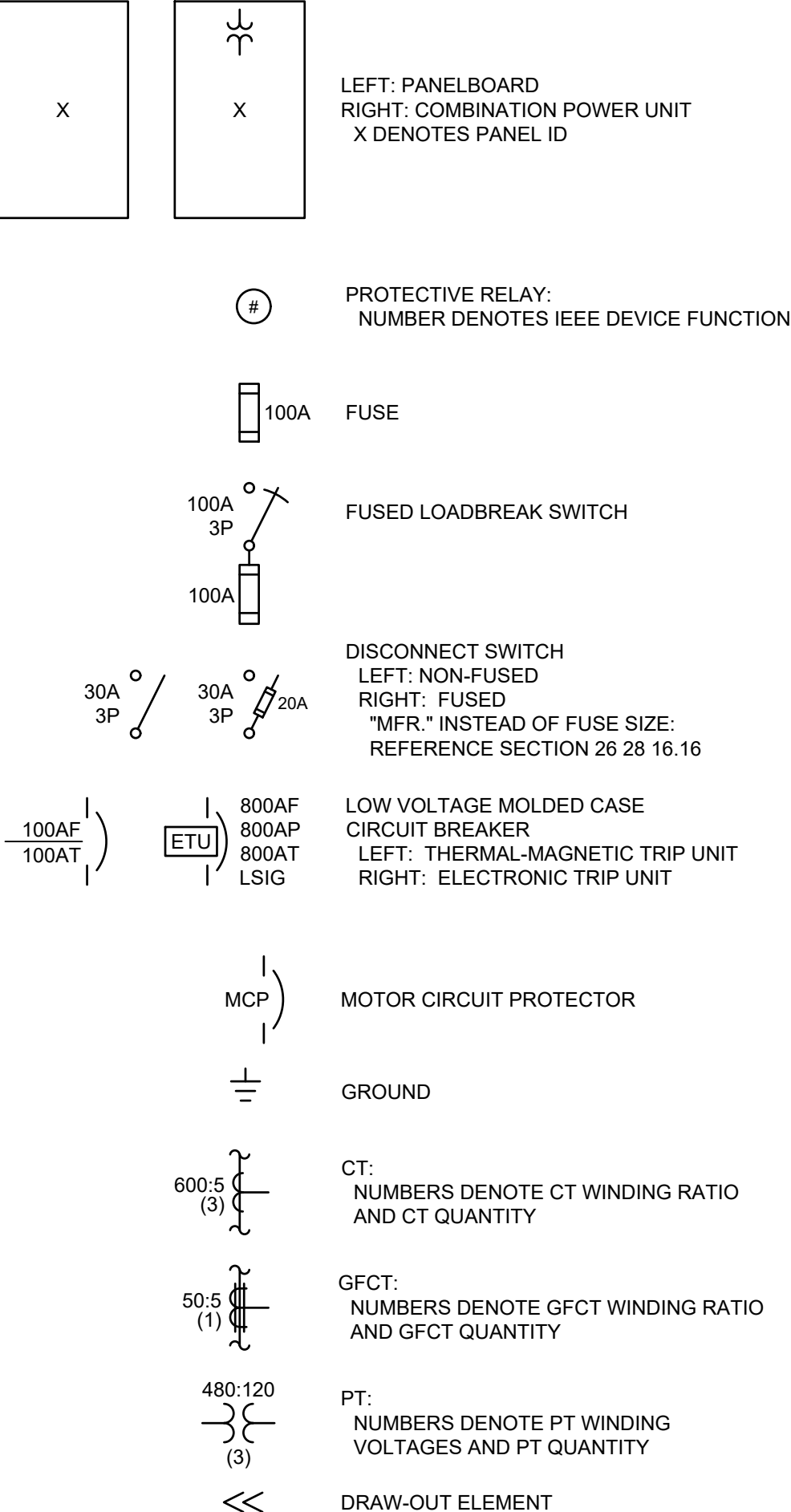
WIRING



SINGLE-LINE DIAGRAMS



SINGLE-LINE DIAGRAMS, CONT'D.



ABBREVIATIONS:

AE	ANALYSIS ELEMENT
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AIT	ANALYSIS INDICATING TRANSMITTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AF	AMPERE FRAME
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BC	BYPASS CONTACTOR
BKR	BREAKER
(L/V)CP	(LOCAL/VENDOR) CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DB	DUCTBANK
DSW	DISCONNECT SWITCH
(*)HH	HANDHOLE*
(*)MH	MANHOLE*
EO	ELECTRICALLY OPERATED
ETM	ELAPSED TIME METER
ETU	ELECTRONIC TRIP UNIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FS	FLOW SWITCH
FSL	FLOW SWITCH LOW
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFCT	GROUND FAULT CURRENT TRANSFORMER
GNG	GO-NO GO
GND	GROUND
HOA	HAND-OFF-AUTO
HH	HANDHOLE
HPU	HYDRAULIC POWER UNIT
IC	INPUT CONTACTOR
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
(*)JB	JUNCTION BOX*
LCS	LOCAL CONTROL STATION
LP	LIGHTING PANEL
LS	LEVEL SWITCH
LSL	LEVEL SWITCH LOW
LSLL	LEVEL SWITCH LOW-LOW
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH-HIGH
LT	LEVEL TRANSMITTER
MFR	MULTI-FUNCTION RELAY
MH	MANHOLE
MOD	MOTOR OPERATED DAMPER
MOG	MOTOR OPERATED GATE
MOL	MOTOR OPERATED LOUVER
MOV	MOTOR OPERATED VALVE
MPR	MOTOR PROTECTION RELAY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MWTS	MOTOR WINDING TEMPERATURE SWITCH
NC / N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO / N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OC	OUTPUT CONTACTOR
OL	OVERLOAD

ABBREVIATIONS, CONT:

(*)PB	PULLBOX*
PC	PHOTOCELL
PCC	POINT OF COMMON COUPLING
PE	PRESSURE ELEMENT
PIT	PRESSURE INDICATING TRANSMITTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
POV	PNEUMATIC OPERATED VALVE
PP	POWER PANEL
PST	PHASE SHIFTING TRANSFORMER
PT	POTENTIAL TRANSFORMER
PTT	PUSH TO TEST
RCS	REMOTE CONTROL STATION
RECP	RECEPTACLE
RIO	REMOTE I/O
RM	ROOM
RTD	RESISTANCE THERMAL DEVICE
RTU	REMOTE TELEMETRY UNIT
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
RVSS	REDUCED VOLTAGE SOLID STATE STARTER
SA	SUPPLY AIR
S.E.	SERVICE ENTRANCE
SP. C.	SPARE CONDUIT
SPD	SURGE PROTECTIVE DEVICE
SSOL	SOLID STATE OVERLOAD
SST	STAINLESS STEEL
TB	TEST BLOCK
TC	TIMED CLOSE
TO	TIMED OPEN
TSH	TWISTED SHIELDED
TX	TRANSFORMER
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE
WPCR	WEATHER PROOF CORROSION RESISTANT
WT	WALK THROUGH
XFMR	TRANSFORMER

*DESIGNATED ABBREVIATIONS CAN HAVE THE FOLLOWING PREFIXES:

E	ELECTRIC
P	POWER
C	CONTROL
I	INSTRUMENTATION
F	FIBER

GENERAL NOTES:

- UNLESS SPECIFICALLY NOTED OTHERWISE, ALL UNDERGROUND CONCRETE ENCASED ELECTRICAL CONDUITS SHALL BE PER STANDARD DETAIL E-33-0101.
- BOND ALL NEW CONCRETE ENCASED GROUND CONDUCTORS TO EXISTING GROUND CONDUCTORS IN ALL MANHOLES, PULL BOXES, CABLE TRAYS, AND SIMILAR LOCATIONS WHERE APPLICABLE.
- UNLESS OTHERWISE SPECIFIED OR NOTED, ALL WALL MOUNTED ELECTRICAL PANELS, ENCLOSURES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED 6'-6" (MAX) FROM THE TOP OF THE PANEL TO FINISHED FLOOR OR GRADE.
- UNLESS OTHERWISE NOTED, ALL LIGHTING SWITCHES, CONTROL SWITCHES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED WITH THEIR CENTERLINE APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR, SLAB, OR GRADE.
- A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT (SEPARATE CONDUCTOR IN THE CONDUIT). THE CONDUCTOR SHALL BE TERMINATED AT THE PROPER DEVICE, TERMINAL, OR LUG AT THE POWER SOURCE (MCC GROUND BUS, PANELBOARD GROUND BUS, ETC.). GROUND CONDUCTOR SIZE SHALL BE PER THE LATEST EDITION OF THE NEC.
- UNLESS SPECIFICALLY NOTED OTHERWISE, EXISTING PAVEMENT SHALL BE SAW CUT AND REMOVED TO ALLOW FOR THE INSTALLATION OF NEW ELECTRICAL DUCTBANKS. AFTER INSTALLATION, REPLACE PAVEMENT WITH NEW TO MATCH ORIGINAL CONDITIONS.
- REFERENCE SECTION 01 14 00 FOR CONSTRUCTION SEQUENCING REQUIREMENTS.
- CONDUIT HOMERUNS ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL REFER TO CONDUIT AND WIRE SCHEDULES, RISER DIAGRAMS, SINGLE LINE DIAGRAMS, AND OTHER DRAWINGS FOR CONDUIT AND WIRE REQUIREMENTS.

1	BID	07/2026	GCJ		
REV	ISSUED FOR	DATE	BY		

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	D. ELAM
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

ISSUED FOR BID



2026.07.02 11:43:51-04'00'

Hazen
HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

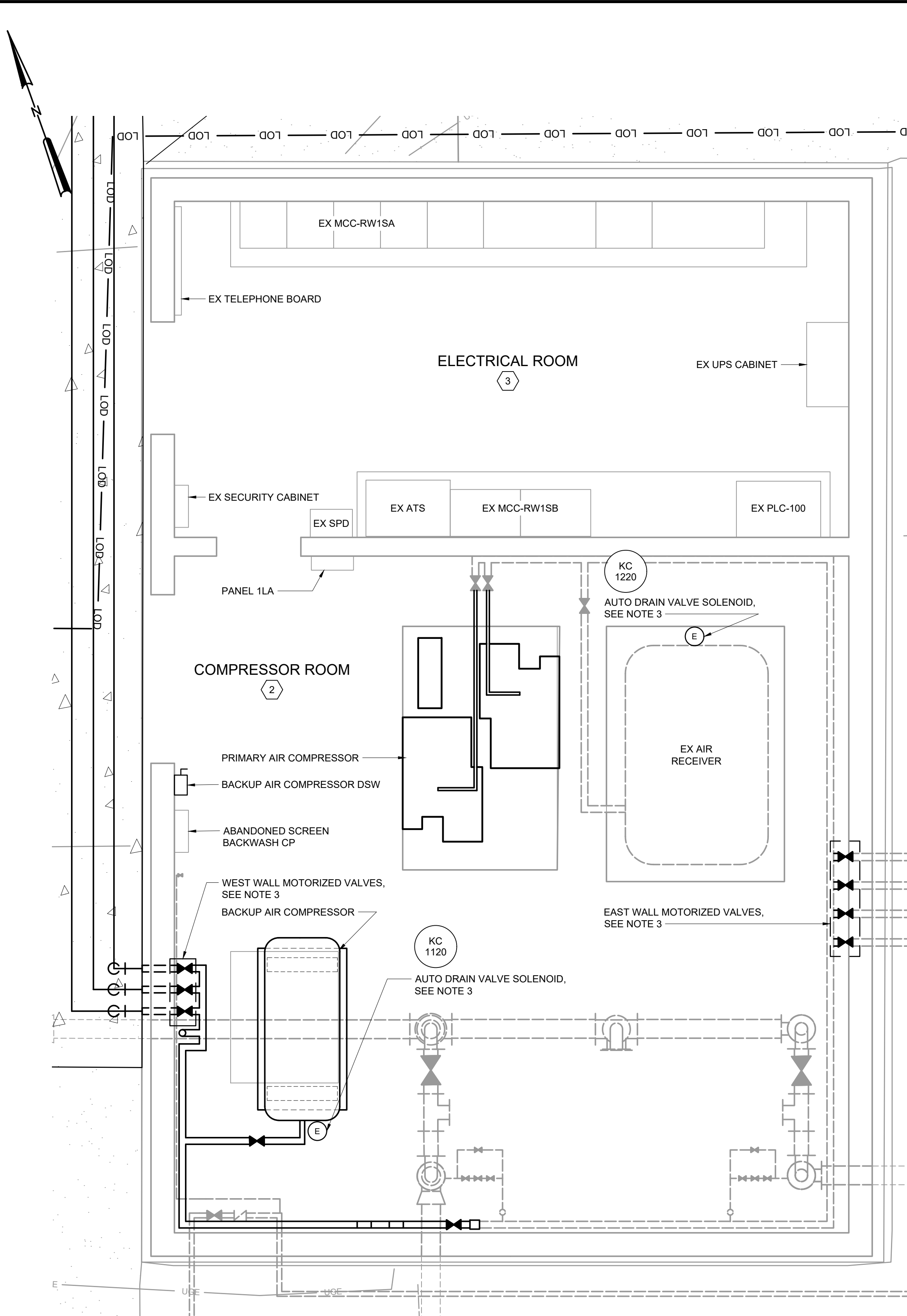
CHEROKEE COUNTY WATER AND
SEWERAGE AUTHORITY

ETOWAH RIVER WTP
INTAKE MODIFICATIONS

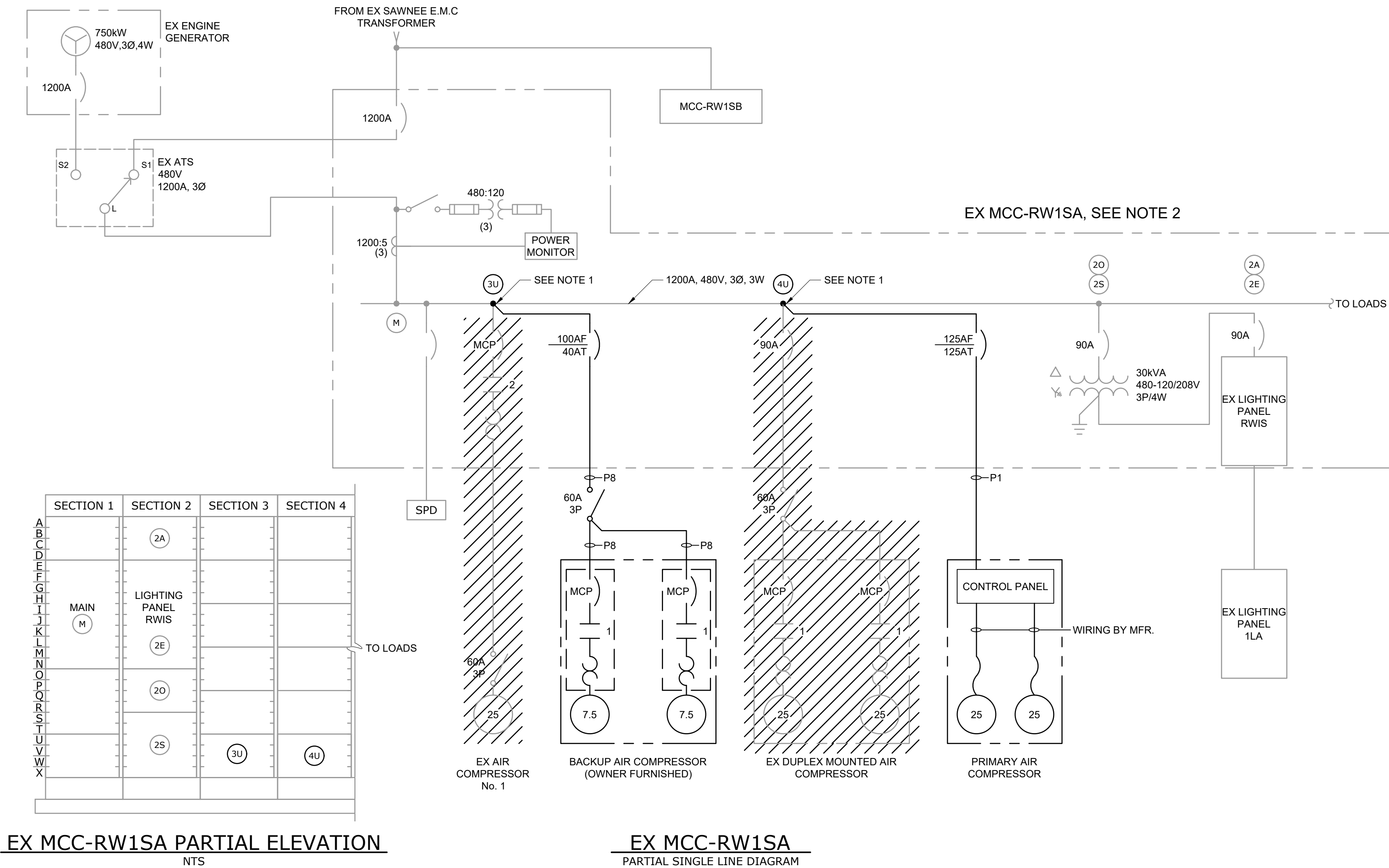
ELECTRICAL
GENERAL
LEGENDS, SYMBOLS, ABBREVIATIONS, AND
GENERAL NOTES

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	E-01

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COMPRESSOR BUILDING PLAN
3/8" = 1' - 0"



EX MCC-RW1SA PARTIAL ELEVATION
NTS

EX MCC-RW1SA
PARTIAL SINGLE LINE DIAGRAM

- NOTES:**
1. REMOVE EXISTING MCC UNIT AND TURN OVER TO PLANT PERSONNEL. PROVIDE MATCHING TYPE MCC BREAKER UNIT OF RATING SHOWN.
 2. EXISTING MCC-RW1SA IS A WESTINGHOUSE SERIES 2100 MOTOR CONTROL CENTER.
 3. SEE BLOCK DIAGRAMS ON E-03 FOR CONDUIT AND WIRE REQUIREMENTS.
 4. SEE COMPRESSOR ROOM DEMOLITION PLAN ON DRAWING M-01.

- CIRCUIT LEGEND:**
- P8 - 1" C [3#8, #10GND]
P1 - 1-1/2" C [3#1, #8GND]

- AREA LEGEND:**
- ① INDOOR WET PROCESS AREA
② INDOOR DRY PROCESS AREA
③ INDOOR DRY NON-PROCESS AREA

1	BID	07/2026	G CJ
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	D. ELAM
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

ISSUED FOR BID

Georgian Professional Engineer
No. 071063
NICHOLAS G MEYER
2026.07.02 11:44:07-04'00"

Hazen
HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY

ETOWAH RIVER WTP INTAKE MODIFICATIONS

ELECTRICAL COMPRESSOR BUILDING PLAN, SINGLE LINE DIAGRAM, AND ELEVATION

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	E-02

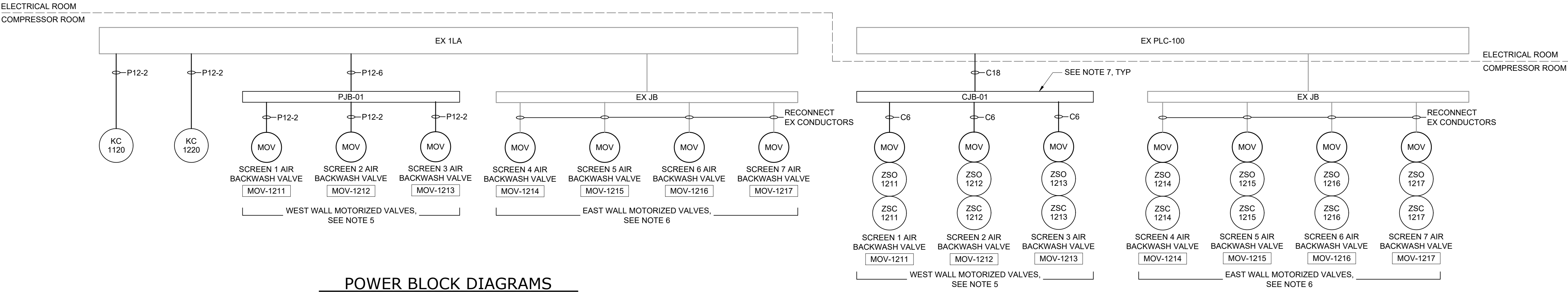
- NOTES:
- EXISTING PANELBOARD 1LA IS A SQUARE-D 120/208V PANELBOARD.
 - UTILIZE SPARE 20A CIRCUIT BREAKER FOR NEW LOADS. UPDATE PANEL DIRECTORY.
 - REUSE EXISTING 20A CIRCUIT BREAKER FOR THE REPLACEMENT MOV.
 - SEE BLOCK DIAGRAMS ON THIS SHEET FOR CONDUIT AND CONDUCTOR REQUIREMENTS.
 - PROVIDE NEW CONDUIT AND WIRE FOR MOTORIZED VALVES MOV-1211, 1212, 1213, AND ASSOCIATED POSITION SWITCHES.
 - REUSE EXISTING CONDUIT AND WIRE FOR MOTORIZED VALVES MOV-1214, 1215, 1216, 1217, AND ASSOCIATED POSITION SWITCHES.
 - FIELD LOCATE JUNCTION BOXES NOT SHOWN ON PLANS.

208/120V, 3P, 4W 100A BUS 10kAIC						EX 1LA, SEE NOTE 1 MAIN LUGS ONLY 100AT, 3P						TYPE: NEMA 1 MOUNT: SURFACE					
MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES			VOLT-AMPERES			CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
						A	B	C	A	B	C						
-	MOV-1211	NOTES 3, 4	20	1	1	400			400			2	1	20	NOTES 3, 4	MOV-1214	-
-	MOV-1212	NOTES 3, 4	20	1	3		400			400		4	1	20	NOTES 3, 4	MOV-1215	-
-	MOV-1213	NOTES 3, 4	20	1	5						400	6	1	20	NOTES 3, 4	MOV-1216	-
-	KC-1120	NOTES 2, 4	20	1	7	100						8	1	20	NOTES 3, 4	MOV-1217	-
-	KC-1220	NOTES 2, 4	20	1	9		100										-
-	SPARE	-	20	1	11					2,000		10	2	30	EX	EX JACKET WATER HEATER	-
-	SPACE	-	-	1	13	-					2,000	12					-
-	SPACE	-	-	1	15		-					14	1	20	EX	EX GEN BATTERY CHARGER	-
-	SPACE	-	-	1	17			-				16	1	-	-	SPACE	-
-	SPACE	-	-	1	19	-						18	1	-	-	SPACE	-
-	SPACE	-	-	1	21		-					20	1	-	-	SPACE	-
-	SPACE	-	-	1	23				-			22	1	-	-	SPACE	-
-	SPACE	-	-	1	25	-						24	1	-	-	SPACE	-
-	SPACE	-	-	1	27							26	1	-	-	SPACE	-
-	SPACE	-	-	1	29		-					28	1	-	-	SPACE	-
-	SPACE	-	-	1	31	-						30	1	-	-	SPACE	-
-	SPACE	-	-	1	33			-				32	1	-	-	SPACE	-
-	SPACE	-	-	1	35				-			34	1	-	-	SPACE	-
-	SPACE	-	-	1	37	-						36	1	-	-	SPACE	-
-	SPACE	-	-	1	39				-			38	1	-	-	SPACE	-
-	SPACE	-	-	1	41					-		40	1	-	-	SPACE	-
-	SPACE	-	-	1								42	1	-	-	SPACE	-

MODIFICATION (MODS) LEGEND:
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
LOD - LOCK-ON DEVICE
LFD - LOCK-OFF DEVICE
ETU - ELECTRONIC TRIP UNIT

TOTAL	500	500	400
PHASE TOTAL (VA)			
	1,500	2,900	2,800
PHASE TOTAL (A)			
	13	24	23

1,000	2,400	2,400
TOTAL LOAD (VA)		
		7,200
TOTAL LOAD (A)		
		20



CONTROL BLOCK DIAGRAMS

CIRCUIT LEGEND:

- P12-2 - 3/4" [2#12, #12GND]
- P12-6 - 3/4" [6#12, #12GND]
- C6 - 3/4" [6#14, #14GND]
- C18 - 1" [18#14, #14GND]

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PLOT DATE: 7/1/2026 9:50 AM BY: DELAN

				PROJECT ENGINEER: G. JOHNSON
				DESIGNED BY: D. ELAM
				DRAWN BY: D. ELAM
				CHECKED BY: N. MEYER
1	BID	07/2026	GCJ	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE
REV	ISSUED FOR	DATE	BY	

ISSUED FOR BID



Hazen

HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

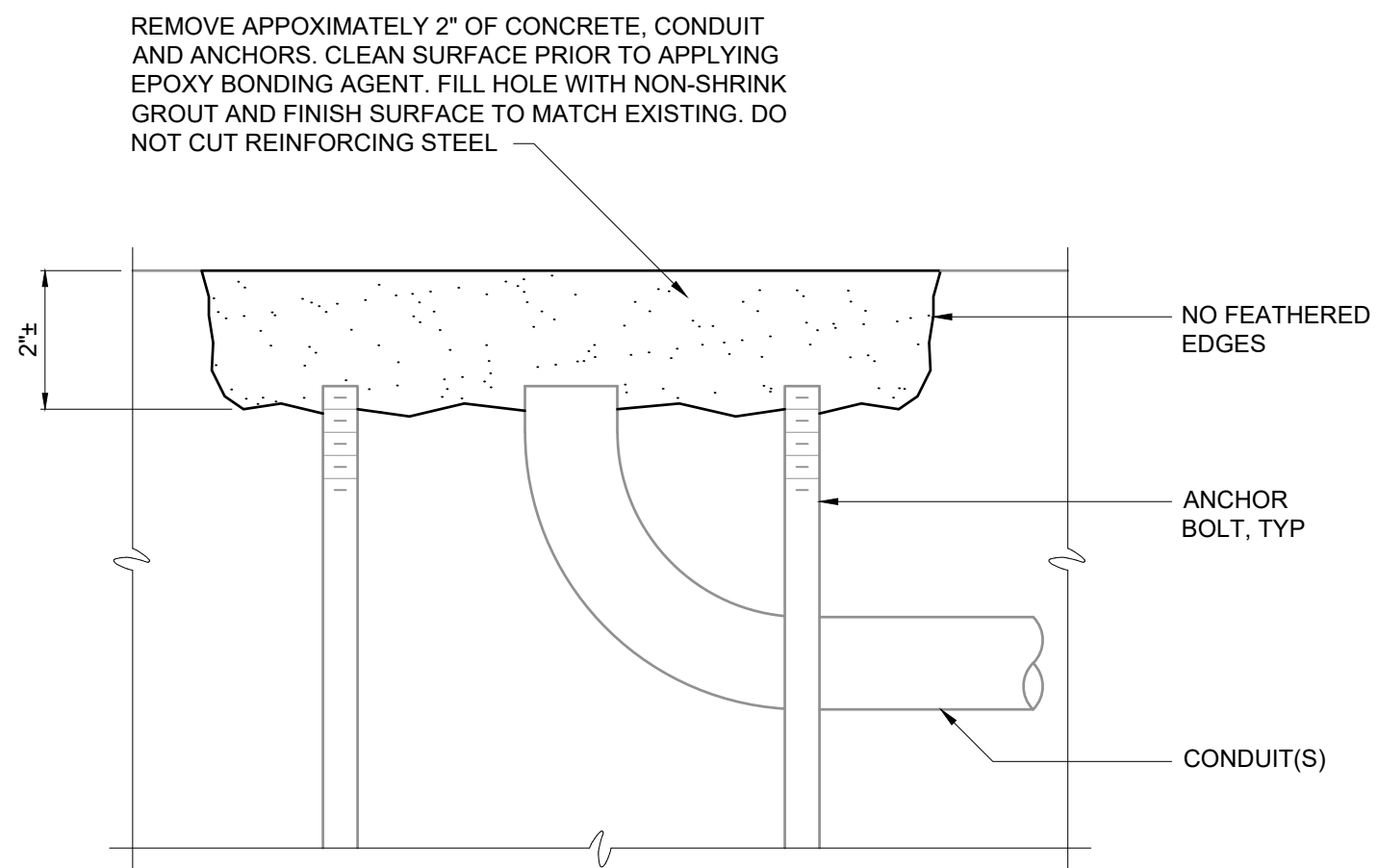
CHEROKEE COUNTY WATER AND
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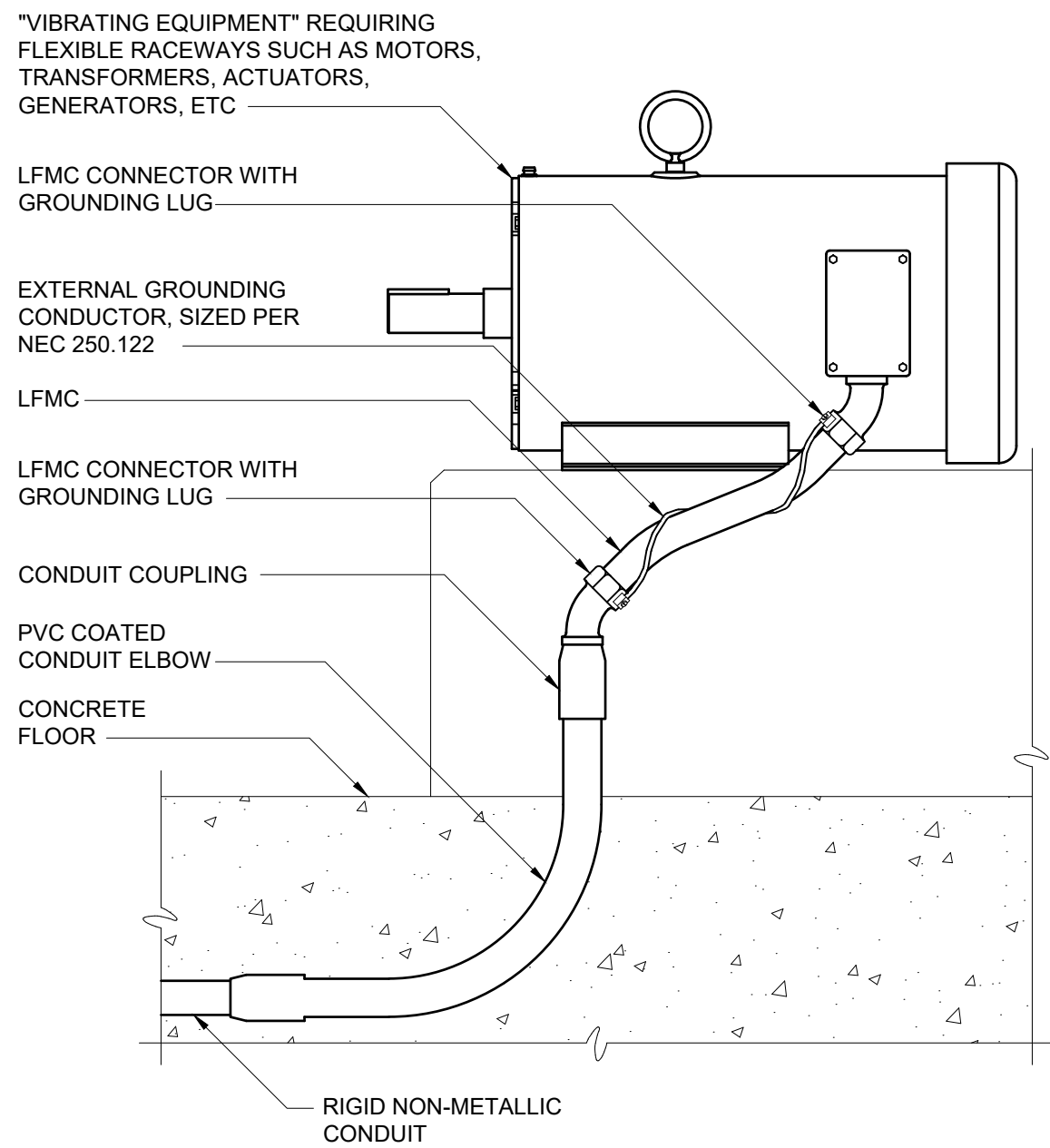
ELECTRICAL
COMPRESSOR BUILDING
PANELBOARD 1LA SCHEDULE AND BLOCK
DIAGRAMS

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	E-03

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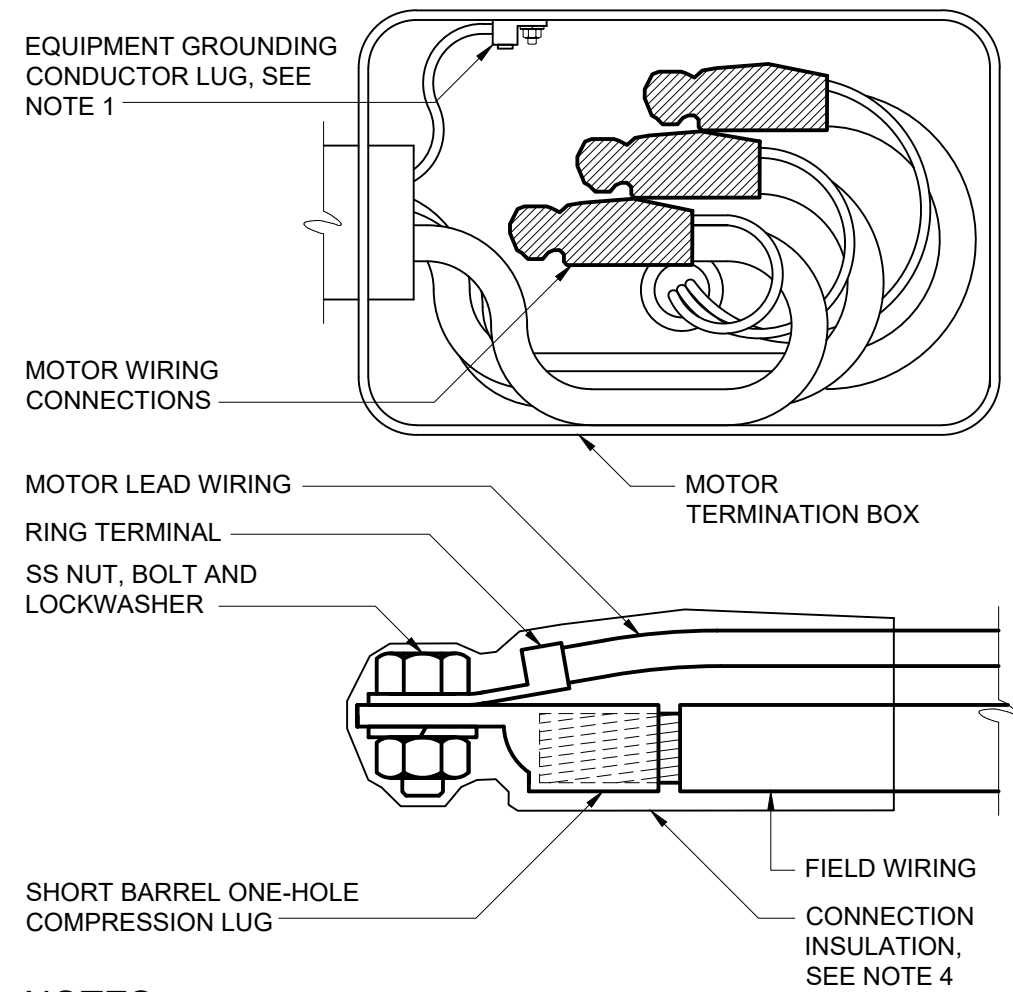


SEALING ABANDONED CONDUIT
AND ANCHOR BOLTS
E-26-0103



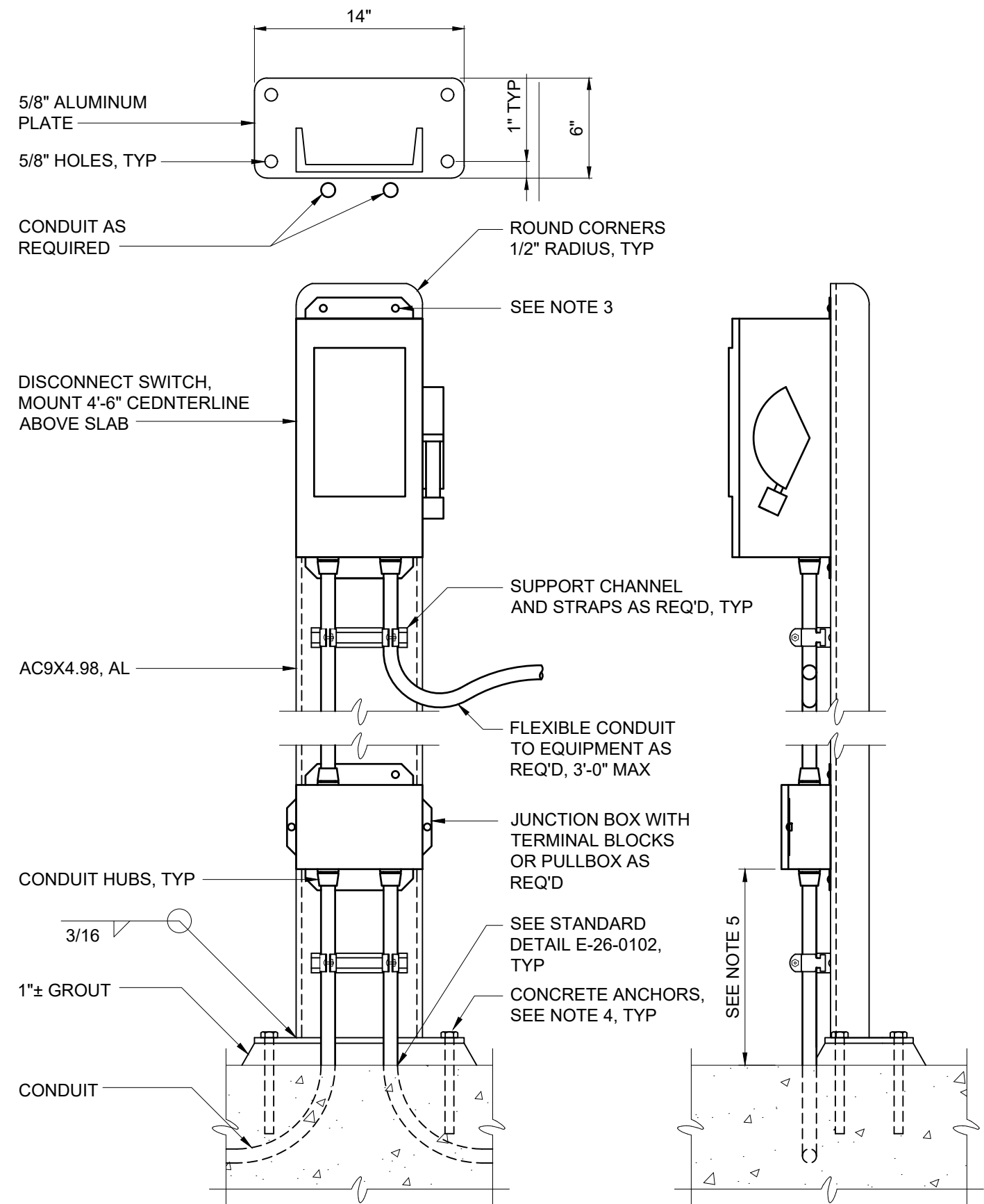
- NOTES:
- WHERE NON-METALLIC CONDUIT TRANSITIONS TO RIGID METALLIC CONDUIT AND / OR LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT, (LFMC), TO FEED VIBRATING TYPE LOADS, THE CONTRACTOR SHALL FURNISH AND INSTALL AN EXTERNAL BARE COPPER GROUNDING CONDUCTOR AND APPROVED GROUNDING LFMC CONNECTORS TO ENSURE GROUND CONTINUITY TO THE RIGID METALLIC CONDUIT AS SHOWN. THE GROUNDING CONDUCTOR SHALL BE SIZED ACCORDING TO NEC 250.122 AND BE NEATLY WRAPPED AROUND LFMC AS SHOWN. LFMC INSTALLED IN THIS MANNER CANNOT BE USED FOR A CONTINUOUS GROUND PATH PER NEC 350.60.

LFMC CONDUIT GROUND STRAP
E-26-0104



- NOTES:
- EQUIPMENT GROUNDING CONDUCTOR LUG SHALL BE ATTACHED WITH NUT AND LOCKWASHER TO THE MOTOR GROUNDING STUD. WHERE PROVIDED, FACTORY INSTALLED EQUIPMENT GROUNDING CONDUCTOR LUGS ARE ACCEPTABLE IN LIEU OF THE FIELD INSTALLED EQUIPMENT GROUNDING CONDUCTOR LUG.
 - RING TERMINALS ON MOTOR LEADS SHALL BE FACTORY INSTALLED BY THE MOTOR MANUFACTURER.
 - INSTALL SHORT BARREL COMPRESSION CONNECTOR ON FIELD WIRING WITH MANUFACTURER'S RECOMMENDED COMPRESSION TOOL AND CRIMPING DIE. CONNECTORS SHALL HAVE SMOOTHLY ROUNDED EDGES.
 - HEAT SHRINK OR COLD APPLIED CONNECTOR INSULATION LISTED FOR THE PURPOSE AND AS SPECIFIED.

LOW VOLTAGE MOTOR TERMINATION
E-26-0301



- NOTES:
- COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE PER SPECIFICATIONS.
 - CONSTRUCT 1'-6" DIAMETER X 2'-6" DEEP FOUNDATION WHERE MOUNTING SURFACE IS NOT AVAILABLE.
 - USE SST WASHERS, LOCKWASHERS, NUTS AND BOLTS FOR MOUNTING EQUIPMENT AND SUPPORTS TO CHANNEL. DRILL EQUIPMENT MOUNTING TABS AS NECESSARY TO COORDINATE WITH CHANNEL WIDTH.
 - FOR EXTERIOR LOCATIONS, CONCRETE ANCHORS SHALL BE 1/2" SST ADHESIVE ANCHORS WITH 4 1/2" EMBEDMENT. FOR INTERIOR LOCATIONS, CONCRETE ANCHORS SHALL BE EITHER 1/2" SST ADHESIVE ANCHORS WITH 4 1/2" EMBEDMENT, 1/2" WEDGE ANCHORS WITH 2" EMBEDMENT, OR 1/2" SCREW ANCHORS WITH 3" EMBEDMENT. SEE SECTION 05 05 23, METAL FASTENING, FOR CONCRETE ANCHOR REQUIREMENTS.
 - COORDINATE MOUNTING HEIGHT ABOVE CONCRETE WITH AREA CLASSIFICATION REQUIREMENTS WHERE APPLICABLE.

30 AND 60 AMP DISCONNECT SWITCH
E-26-0403

1	BID	07/2026	GCJ
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	G. JOHNSON
DESIGNED BY:	D. ELAM
DRAWN BY:	D. ELAM
CHECKED BY:	N. MEYER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

ISSUED FOR BID

Georgias
REGISTERED PROFESSIONAL ENGINEER
No. 071063
NICHOLAS G. MEYER
2026.07.02 11:44:35-04'00'

Hazen

HAZEN AND SAWYER
211 PERIMETER CENTER PKWY SUITE 300
ATLANTA, GA 30346
GBPE LIC #: PEF003685 EXP: 6/30/2028

CHEROKEE COUNTY WATER AND
SEWERAGE AUTHORITY

ETOWAH RIVER WTP
INTAKE MODIFICATIONS

ELECTRICAL
MISCELLANEOUS DETAILS
STANDARD DETAILS

DATE:	JULY 2026
HAZEN NO.:	32462-009
CONTRACT NO.:	1
DRAWING NUMBER:	E-04

