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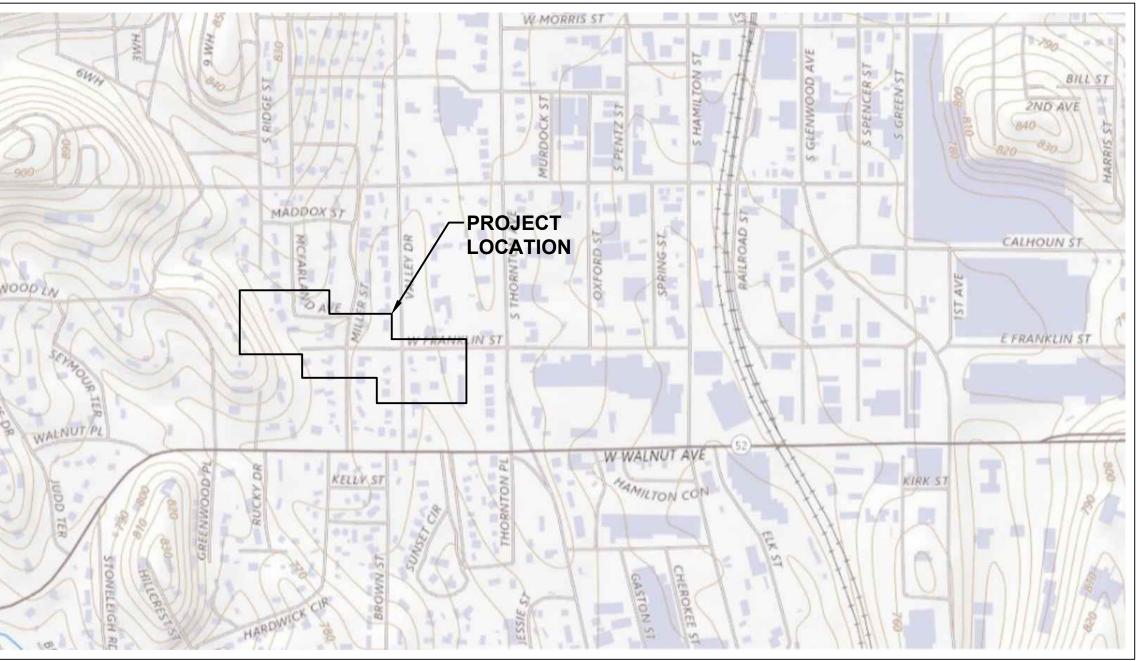
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DRAWING NUMBER

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	GENERAL
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G-02	LEGEND AND ABBREVIATIONS
	CIVIL
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C-02	EXISTING CONDITIONS PLAN (SHEET 2 OF 3)
C-03	EXISTING CONDITIONS PLAN (SHEET 3 OF 3)
C-04	EASEMENT PLAN (SHEET 1 OF 3)
C-05	EASEMENT PLAN (SHEET 2 OF 3)
C-06	EASEMENT PLAN (SHEET 3 OF 3)
C-07	DEMOLITION PLAN (SHEET 1 OF 3)
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C-10	OVERALL STORMWATER IMPROVEMENTS PLAN
C-11	STORMWATER IMPROVEMENTS PLAN (SHEET 1 OF 3)
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ESC-10	EROSION & SEDIMENT CONTROL PLAN - INTERMEDIATE PHASE (SHEET 3 OF 3)
ESC-11	EROSION & SEDIMENT CONTROL PLAN - FINAL PHASE (SHEET 1 OF 3)
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ESC-14	EROSION & SEDIMENT CONTROL DETAILS (SHEET 1 OF 3)
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	STRUCTURAL
S-01	GENERAL NOTES
S-02	SPECIAL INSPECTIONS
S-03	PLAN, SECTION & DETAILS

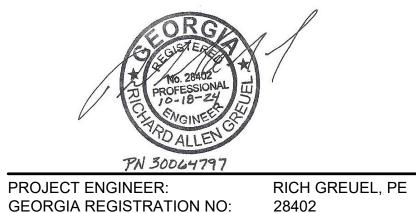
YOF DALTON, GEORGIA ANKLIN STREET BYPASS SYSTEM



LOCATION MAP 1" = 600'

OCTOBER 2024

ISSUED FOR CONSTRUCTION



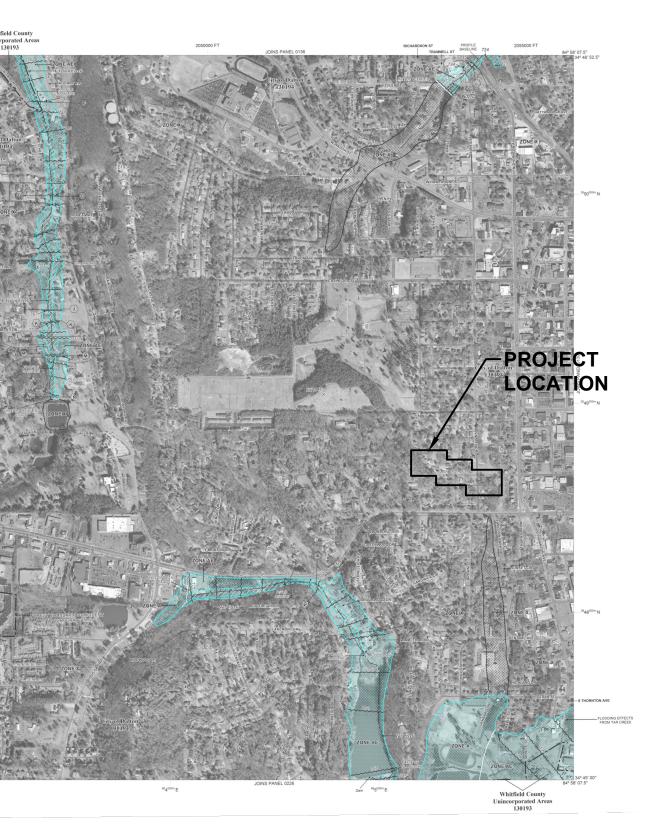
GEORGIA REGISTRATION NO: PHONE:

770-384-6574



TEL: 770.431.8666 FAX: 770.435.2666 www.ARCADIS.com





FEMA MAP NUMBER: 13313C0138D



GENERAL NOTES

- THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR. AND PROPERLY RESTORE ALL PAVEMENT, DRIVES, SIDEWALK, AND CURBS, WHICH MAY HAVE BEEN DAMAGED. REMOVED OR DISTURBED AS RESULT OF ACCOMPLISHING THE WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING GRADES AND DIMENSIONS AND NOTIFYING THE ENGINEER IN ADVANCE AND IN WRITING OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
- 3. EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON SURFACE OBSERVATION AND LIMITED DETECTION SERVICES. NOT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING BOTH THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR DETERMINING THEIR PROTECTION DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL OPERATIONS WITH ALL UTILITIES WHICH MAY BE IN CONFLICT WITH HIS WORK. CONTRACTOR TO COORDINATE CONFLICTS WITH DALTON UTILITIES AND NOTIFY THE CITY OF DALTON PUBLIC WORKS.
- 4. A COPY OF THE APPROVED SET OF CONSTRUCTION PLANS MUST BE ON THE JOBSITE AT ALL TIMES DURING CONSTRUCTION.
- 5. NO WORK SHALL TAKE PLACE PRIOR TO 7:00AM OR AFTER 5:30PM, MONDAY THROUGH FRIDAY. WORK ON WEEKENDS SHALL BE PROHIBITED UNLESS AUTHORIZED BY THE CITY OF DALTON PUBLIC WORKS PROJECT MANAGER.
- 6. UNLESS NOTED OTHERWISE ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF DALTON AND STATE OF GEORGIA STANDARDS AND SPECIFICATIONS.
- 7. WHERE SHOWN ON DRAWINGS ALL SUBSURFACE TOPOGRAPHICAL FEATURES WHICH INCLUDE GROUND WATER TABLE, PARTIALLY WEATHERED ROCK, AND ROCK SHOWN ARE APPROXIMATE. THE CONTRACTOR AT HIS EXPENSE SHALL CONDUCT ADDITIONAL SUBSURFACE SOIL EXPLORATION IF DEEMED NECESSARY.
- 8. ALL WORK AROUND THE EXISTING UTILITIES AND UTILITY STRUCTURES WHETHER ABOVE OR BELOW GROUND SHALL BE PERFORMED IN A MANNER THAT WILL AVOID DAMAGE TO THE UTILITIES AND STRUCTURES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL ACCURATELY LOCATE ABOVE AND BELOW UTILITIES WHICH MAY BE AFFECTED BY THE WORK AND PROTECT ALL UTILITIES NOT DESIGNATED FOR REMOVAL, RESTORATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION. PROVIDE 72 HOURS OF ADVANCE NOTICE TO DALTON UTILITIES PRIOR TO BEGINNING CONSTRUCTION IN THE VICINITY OF THE EXISTING UTILITIES. FOR EXISTING UTILITY LOCATION ASSISTANCE CALL THE UNDERGROUND UTILITIES PROTECTION CENTER (GA 811).
- 9. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR, CONTRACTOR'S CREW AND/OR EQUIPMENT SHALL BE THE CONTRACTOR'S COST AND RESPONSIBILITY TO REPLACE PER OWNER'S STANDARDS AND SPECIFICATIONS.
- 10. ANY REFUSE RESULTING FROM CLEARING AND GRUBBING OPERATIONS SHALL BE HAULED TO A DISPOSAL SITE SECURED BY THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, COUNTY AND MUNICIPAL REGULATIONS. NO DEBRIS OF ANY KIND SHALL BE DEPOSITED IN ANY STREAM OR BODY OF WATER, OR IN ANY STREET OR ALLEY. NO DEBRIS SHALL BE DEPOSITED UPON ANY PRIVATE PROPERTY EXCEPT BY WRITTEN CONSENT OF THE PROPERTY OWNER. IN NO CASE SHALL ANY MATERIAL BE LEFT ON THE PROJECT, PLACED ONTO ABUTTING PRIVATE PROPERTIES, OR BE BURIED IN THE EMBANKMENTS OR TRENCHES ON THE PROJECT.
- 11. THIS PROJECT IS LOCATED IN THE VICINITY OF POLES AND POWER LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITIES TO OBTAIN AN OVERHEAD UTILITY TICKET PRIOR TO WORKING ADJACENT TO THE POWER LINES AND POLES.
- 12. THE CONTRACTOR SHALL COMPLY WITH THE STATE OF GEORGIA MANUAL FOR EROSION AND SEDIMENT CONTROL STANDARDS, LATEST EDITION.
- 13. IN THE EVENT ACTIVE UTILITY SERVICES REQUIRE INTERRUPTION. THE CONTRACTORS SHALL COORDINATE AND CONSULT WITH THE OWNER OR/OWNERS AND OBTAIN APPROVAL FROM THEM PRIOR TO SERVICES BEING DISRUPTED.
- 14. THE CONTRACTOR SHALL ALL TIMES CONTROL DUST AND DEBRIS FROM THE OPERATIONS TO A LEVEL ACCEPTABLE TO THE CITY OF DALTON AND LOCAL BUSINESSES AT ALL TIMES. CONTRACTOR TO STREET SWEEP DAILY TO ENSURE THAT THERE IS NO MUD TRACKING OFFSITE ONTO ADJACENT ROADWAYS.
- 15. ALL UTILITY WORK WITHIN THE CITY OF DALTON RIGHT OF WAY SHALL BE PERFORMED IN ACCORDANCE TO DALTON UTILITIES STANDARDS AND SPECIFICATIONS, LATEST EDITION. WORK ON THE SITE SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- 16. TEMPORARY DISCONNECTION, REMOVAL AND/OR REPLACEMENT OF THE FOLLOWING ITEMS INCLUDING BUT NOT LIMITED TO: FIRE HYDRANTS, WATER METERS, BACK FLOW PREVENTION DEVICES, VAULTS, MANHOLE AND OTHER POTABLE WATER SYSTEM APPURTENANCES SHALL BE IN STRICT ACCORDANCE WITH THE LATEST DALTON UTILITIES AND CITY OF DALTON PUBLIC WORKS STANDARDS AND SPECIFICATIONS. BEFORE CONNECTION, REMOVAL AND/OR REPLACEMENT OF ANY UTILITIES. THE CONTRACTOR SHALL CONTACT AND OBTAIN APPROVAL FROM CITY OF DALTON PUBLIC WORKS REPRESENTATIVES PRIOR TO CONSTRUCTION.
- 17. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH DALTON UTILITIES OR LOCAL AUTHORITY FIRE MARSHAL PRIOR TO REMOVING ANY FIRE HYDRANTS OR ANY FIRE PROTECTION UTILITIES. ANY WORK OR MATERIALS REQUIRED BY THE FIRE MARSHAL TO TEMPORARILY PROVIDE FOR FIRE PROTECTION TO THE LOCAL BUSINESS SHALL BE PART OF THE CONTRACTOR'S SCOPE OF WORK. "OUT-OF-SERVICE RINGS" WILL BE REQUIRED FOR HYDRANTS WHILE OUT OF SERVICE.
- 18. ALL EXCAVATION SHALL BE ADEQUATELY SHORED TO ENSURE WORKER SAFETY. ALL PIPE LAYING OPERATIONS SHALL COMPLY WITH OSHA REQUIREMENTS FOR TRENCH SAFETY.
- 19. CONTRACTOR SHALL PROVIDE A CONSTRUCTION SEQUENCING PLAN TO THE CITY OF DALTON PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION COMMENCEMENT.
- 20. 72 HOURS NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE ANY PLANNED DIGGING. http://www.georgia811.com

MATERIAL NOTES

- NOTED.
- OF THE RADIUS RETURNS.
- VALVE TO PREPARE FOR RESURFACING:

STAKING NOTES

- ZONE.
- 3. VERTICAL DATUM IS REFERENCED TO NAVD 88.

GRADING NOTES:

- OTHER PREPARED AREAS.
- TRANSITIONS IN THE FINISHED GRADE.
- GRADE UNLESS OTHERWISE INDICATED.

- BE COVERED IN GRASS.

DEMOLITION NOTES:

- CONSTRUCTION ACTIVITIES ON THE SITE.
- THE LIMIT OF DEMOLITION FOR REMOVAL.
- 12-INCHES BELOW PROPOSED GRADE SURFACE.

TRAFFIC CONTROL:

- CLOSURES.
- PRIOR TO ANY DISRUPTION.

1. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III UNLESS OTHERWISE

2. CONTRACTOR SHALL MILL AND OVERLAY THE FULL WIDTH OF W FRANKLIN STREET AND VALLEY DRIVE WITHIN THE LIMITS OF DISTURBANCE UPON COMPLETION OF THE STORMWATER BYPASS SYSTEM CONSTRUCTION. MILL AND OVERLAY ON ALL ADJACENT SIDE STREETS SHALL BE RESURFACED TO THE END

3. MILLING/REMOVAL OF ASPHALT AROUND MANHOLE, GAS VALVE, OR WATER

3.1. THIS MILLING WILL REQUIRE A SMALL MILLING MACHINE TO APPROPRIATELY MILL AROUND THE UTILITY INFRASTRUCTURE AT THE SAME MILLING DEPTH SPECIFIED FOR THIS STREET TO PREPARE FOR RESURFACING. THE UNIT PRICE FOR THIS WORK SHOULD INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK.

1. THE EXISTING CONDITIONS SITE FEATURES ARE BASED ON FIELD SURVEY CONDUCTED BY PROFESSIONAL LAND SURVEYORS, LLC., IN MAY OF 2023.

2. HORIZONTAL DATUM IS REFERENCED TO NAD-83 GEORGIA STATE PLANE, WEST

1. CONTRACTOR SHALL NOT PERMIT EQUIPMENT TO BE USED IN SUCH A MANNER AS TO CAUSE EQUIPMENT TO EXCESSIVELY BUMP OR RUT THE SUBGRADE OR

2. CONTRACTOR SHALL GRADE IN A MANNER TO ESTABLISH LONG SMOOTH GRADIENTS IN ORDER TO REDUCE ABRUPT CHANGES. DIPS AND SHARP

3. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE POSITIVE DRAINAGE ON GRADED SURFACE AREAS AT 1% MINIMUM ON HARDSCAPE AT 2% MINIMUM ON

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.

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

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 SURFACE SHALL

8. GENERALLY TAKE STANDARD PRECAUTIONS TO PROTECT TREES. SEE EROSION & SEDIMENT PLANS FOR TREE PROTECTION REQUIREMENTS WHEN APPLICABLE.

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.

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

3. CONTRACTOR SHALL MINIMIZE THE IMPACT OF CONSTRUCTION ACTIVITIES ON THE TRAFFIC FLOW TO SURROUNDING FACILITIES TO REMAIN.

4. CONTRACTOR SHALL SAW CUT PAVEMENT, SIDEWALKS AND CURB & GUTTER AT

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

6. THE CONTRACTOR SHALL INSTALL ALL INITIAL FROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO BEGINNING DEMOLITION OPERATIONS.

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ROAD PERMITS FROM THE CITY OF DALTON DEPARTMENT OF PUBLIC WORKS INCLUDING PROVIDING ANY RESTORATION BONDS. THE CONTRACTOR SHALL PROVIDE A DETAILED PHASED TRAFFIC CONTROL PLAN BASED ON THE PROPOSED WORK PHASING AS DETERMINED BY THE CONTRACTOR. THE DETAILED PHASED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY OF DALTON PUBLIC WORKS FOR APPROVAL. THE CONTRACTOR SHALL UTILIZE THE LATEST EDITION OF THE "MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES" TO DEVELOP PLANS.

2. THE CONTRACTOR SHALL COORDINATE WITH AND OBTAIN APPROVAL FROM THE CITY OF DALTON DEPARTMENT OF PUBLIC WORKS PRIOR TO ANY LANE

3. BECAUSE THE PROJECT CONSTRUCTION SITE IS LOCATED ON RESIDENTIAL STREETS AND ADJACENT TO OCCUPIED RESIDENCES, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER THAT WILL PROVIDE ACCEPTABLE LEVELS OF SAFETY AND MAINTENANCE OF UTILITIES, ROADWAY, TRAFFIC, DRIVEWAYS, SIDEWALKS, ETC. TO ALL OWNERS, CITY OF DALTON DEPARTMENT OF PUBLIC WORKS, MANAGEMENT, AND UTILITY COMPANIES. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN AND PROTECT ALL UTILITY SERVICES AND DRIVEWAY ACCESS, INCLUDING BUT NOT LIMITED TO, RESIDENTS, EMERGENCY SERVICES, VEHICLES, AND PEDESTRIAN TRAFFIC, ETC.

4. CONTRACTOR TO PROVIDE DRIVEWAY ACCESS TO RESIDENTS ADJACENT TO PROJECT AREA. IF THE CONTRACTOR REQUIRES RESTRICTED ACCESS TO A RESIDENCE'S DRIVEWAY THEN WRITTEN NOTICE MUST BE GIVEN TO THE HOMEOWNER AND CITY OF DALTON PUBLIC WORK'S WITH 72 HOURS NOTICE

PROJECT COMPLETION

1. PRIOR TO ACCEPTANCE AND FINAL PAYMENT, CONTRACTOR IS TO PROVIDE AN AS-BUILT SURVEY. WHICH IS A DRAWING PREPARED AND SIGNED BY A REGISTERED LAND SURVEYOR REGISTERED IN THE STATE OF GEORGIA ILLUSTRATING THE LOCATIONS. DIMENSIONS AND ELEVATIONS OF A DEVELOPMENT AS IT HAS BEEN CONSTRUCTED FOLLOWING COMPLETION OF CONSTRUCTION ON DIRECT FIELD MEASUREMENTS AND SHOWN TO SCALE.

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GENERAL, CIVIL, AND MECHANICAL ABBREVIATIONS

SYMBOLS

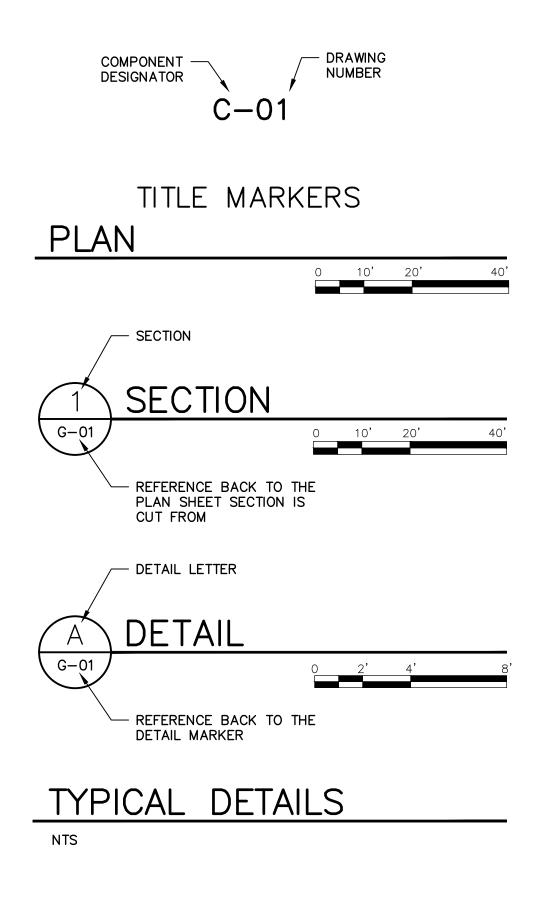
SAN	EXISTING SANITARY SEWER	
	EXISTING STORM PIPE	AB
C	EXISTING GAS LINE	ABAN.
	ELECTRIC LINE (UNDERGROUND)	ADD'L. ADJ.
OHE	ELECTRIC LINE (OVERHEAD)	AH
— W —	WATER LINE	ALUM. ALT.
——— R/W ——	RIGHT-OF-WAY	BF
	PROPERTY BOUNDARY	BITUM. BL
<u> </u>	EXISTING MAJOR CONTOUR	BLDG. BMK
— — — 801 - — —	EXISTING MINOR CONTOUR	BM.
x x	EXISTING FENCE	BOP BOT.
	EXISTING TREES	BRG
		BRP ©
	EXISTING UTILITY POLE	C/C
<u> </u>	EXISTING SIGN	CB CFB
Ø	EXISTING STORM SEWER MANHOLE	CIPP
	EXISTING CATCH BASIN	CJ CL.
S	EXISTING SANITARY SEWER MANHOLE	CMH CO
X	EXISTING UTILITY VALVE	COL.
X	EXISTING FIRE HYDRANT	CONC. CONT.
	PROPOSED MAJOR CONTOUR	CPLG.
——— 801 — —	PROPOSED MINOR CONTOUR PROPOSED STORM SEWER MANHOLE	CY DET.
		DIP DIA.
	PROPOSED STORM PIPE	DISCH. DMH
	PROPOSED CATCH BASIN	DN.
S	PROPOSED SANITARY SEWER MANHOLE	DWL. EA.
—— SAN ——	PROPOSED SANITARY SEWER	EF EFF.
	PIPE FLOW DIRECTION	EJ
یشد یشد بالد	WETLAND (NWI)	EL. ELEC.
	100-YEAR FLOOD PLAIN	EMH EQ.
•••••	FLOODWAY	EW EX., EXST
	25-FT STATE BUFFER	FCA FD
	50-FT MUNICIPAL BUFFER	FDN
· · ·	OPEN CHANNEL CENTERLINE	FDND FF
— — LOD — —	LIMITS OF DISTURBANCE	FIN. FL
SF	SEDIMENT BARRIER	FLEX. FLG.
· x· x· x· x· x· x· x· x· x·	TO BE REMOVED	FLR. FM
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	PROPOSED RIP RAP	GE GRD.
		GRAT. HB
		HORIZ. HW

ANCHOR BOLT ABANDONED ADDITIONAL ADJUSTABLE ACCESS HATCH ALUMINUM ALTERNATE BLIND FLANGE BITUMINOUS BASELINE BUILDING BENCH MARK BEAM BOTTOM OF PIPE BOTTOM BEARING BUILDING REFERENCE POINT CENTERLINE CENTER TO CENTER CATCH BASIN CHEMICAL FEED BANK CURED-IN-PLACE PIPE CONSTRUCTION JOINT CLEAR COMMUNICATION MANHOLE CLEANOUT COLUMN CONCRETE CONTINUED COUPLING CUBIC YARD(S) DETAIL DUCTILE IRON PIPE DIAMETER DISCHARGE DROP MANHOLE DOWN DOWELS EACH EACH FACE EFFLUENT EXPANSION JOINT ELEVATION ELECTRIC ELECTRICAL MANHOLE EQUAL EACH WAY EXISTING FLANGED COUPLING ADAPTER FLOOR DRAIN FOUNDATION FOUNDATION DRAIN FAR FACE FINISHED FLUSHING FLEXIBLE FLANGE FLOOR FLOWMETER FLOW SWITCH FOOTING FEET GAGE OR GAUGE GALVANIZED GROOVED END JOINT GROUND GRATING HOSE BIB HORIZONTAL HEADWALL

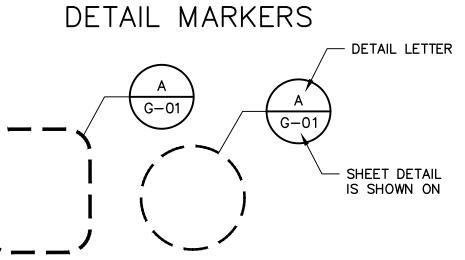
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INSIDE DIAMETER ID IF INSIDE FACE IN., " INF. INV. JST. JT. INCHES INFLUENT INVERT JOIST JOINT KIP (1000 POUNDS) KIPS PER SQUARE FOOT K KSF LF LINEAR FEET LG. LLH LLV LR LONG LONG LEG HORIZONTAL LONG LEG VERTICAL LONG RADIUS LIN LSH LSLL MAS MAX. MCC MFR. LEVEL SWITCH HIGH LEVEL SWITCH LOW LOW MASONRY MAXIMUM MOTOR CONTROL CENTER MANUFACTURER MILLION GALLONS PER DAY MGD MH MANHOLE MIN. MINIMUM MJ MECHANICAL JOINT MO NC MASONRY OPENING NORMALLY CLOSED NF NEAR FACE NORMALLY OPEN NO NO. NUMBER NWI NATIONAL WETLANDS INVENTORY OC OD OF ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPNG. OPP. PC OPENING OPPOSITE POINT OF CURVATURE ΡE PLAIN END PLAIN END POINT OF INTERSECTION PLATE OR PROPERTY LINE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT OF TANGENCY ΡI PL, PE PSF PSI PT PROP PROPOSED RISER R REBAR FOUND RBF RBR RED. REINF. REBAR REDUCER REINFORCEMENT OR REINFORCE REQUIRED RESTRAINED JOINT REQ'D. RJ RM. ROW SHT. SPA. SR SS STD. STL. STRUC. T&B TCB THK. TYP. UON USG VERT. ROOM RIGHT OF WAY SHEET SPACING SHORT RADIUS STAINLESS STEEL STANDARD STEEL STRUCTURAL TOP AND BOTTOM TOP CURB BACK THICK TYPICAL UNLESS OTHERWISE NOTED UNITED STATES STANDARD GAGE VERTICAL WITH WORK POINT WATER STOP WELDED WIRE FABRIC W/ WP WS WWF

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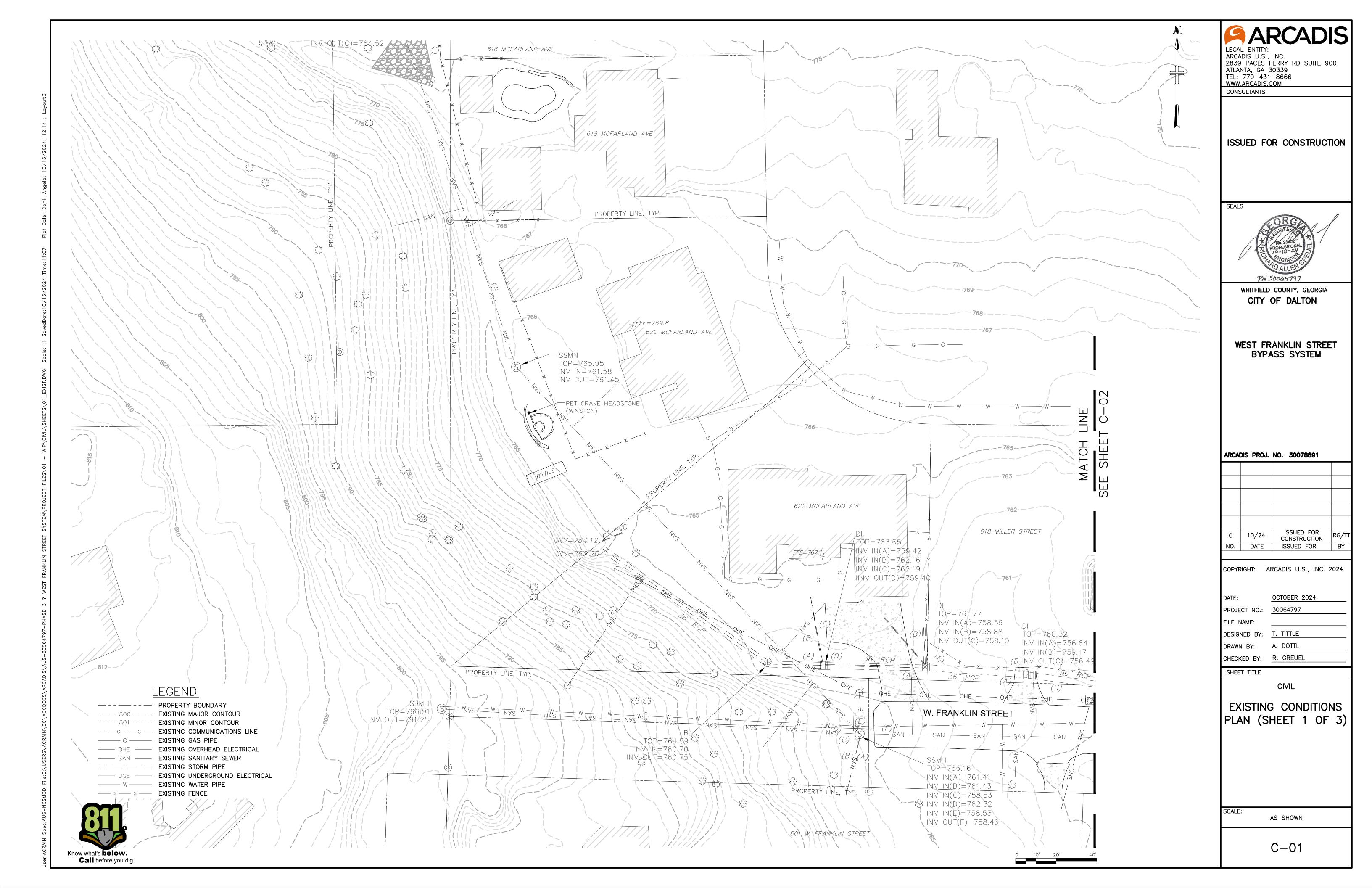


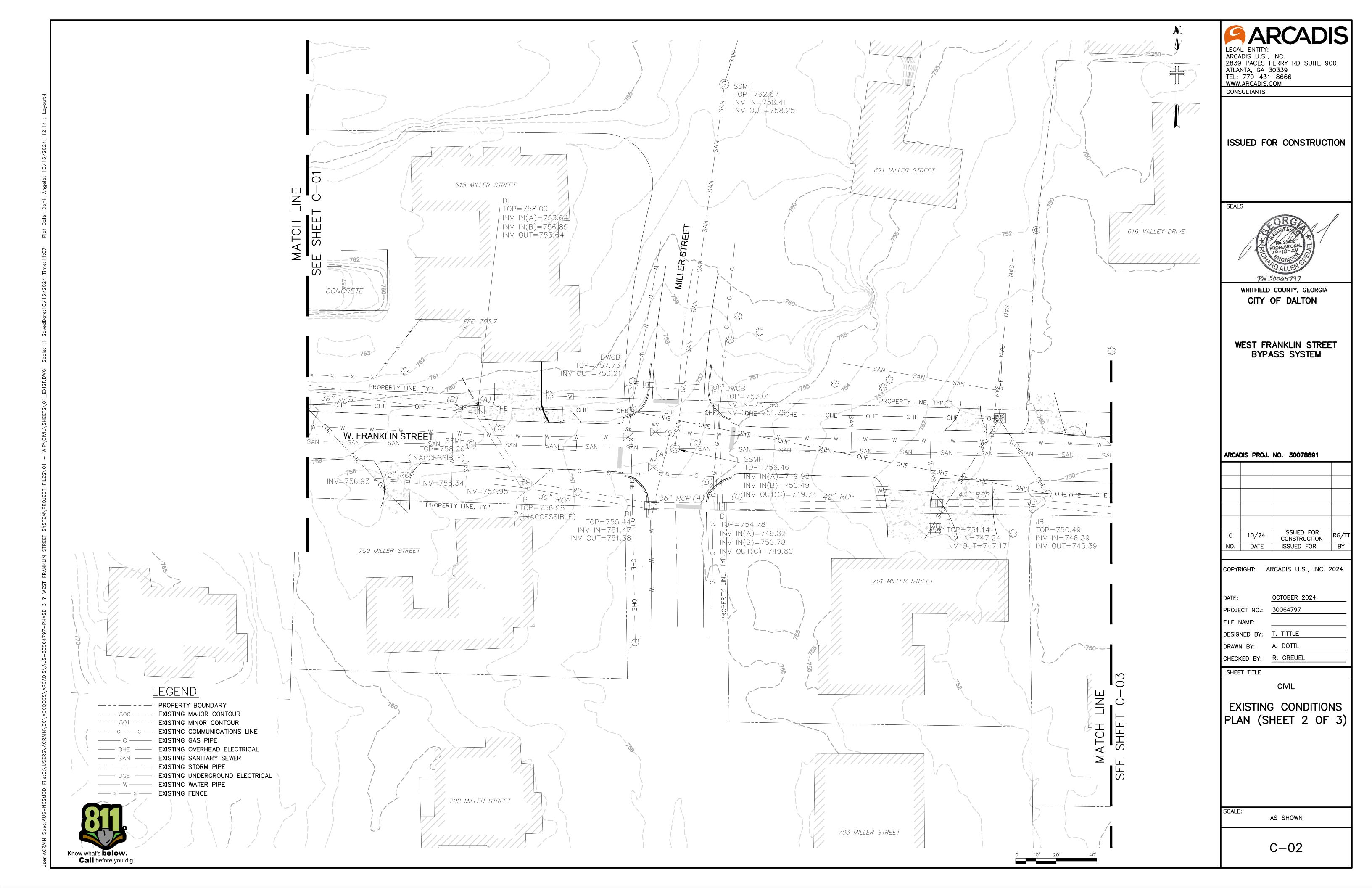
SECTION MARKERS - SECTION NUMBER G-01 - SHEET SECTION IS SHOWN ON

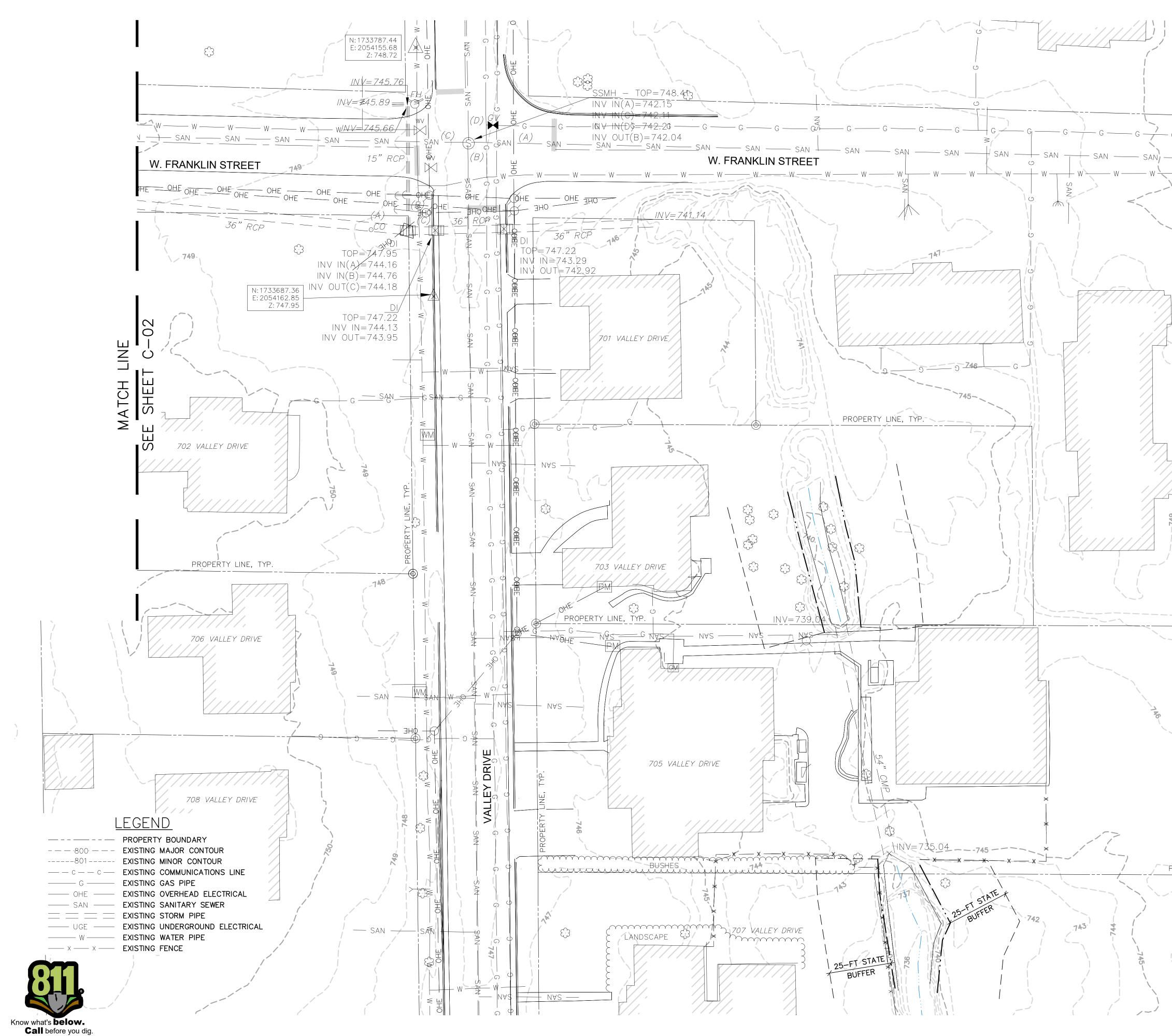


ARCADIS U.S., INC. 2839 PACES FERRY RD SUITE 900 ATLANTA, GA 30339 TEL: 770-431-8666 WWW.ARCADIS.COM CONSULTANTS				
ISSUED FOR CONSTRUCTION				
SEALS				
WHITFIELD COUNTY, GEORGIA CITY OF DALTON WEST FRANKLIN STREET BYPASS SYSTEM				
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Know what's **below. Call** before you dig.



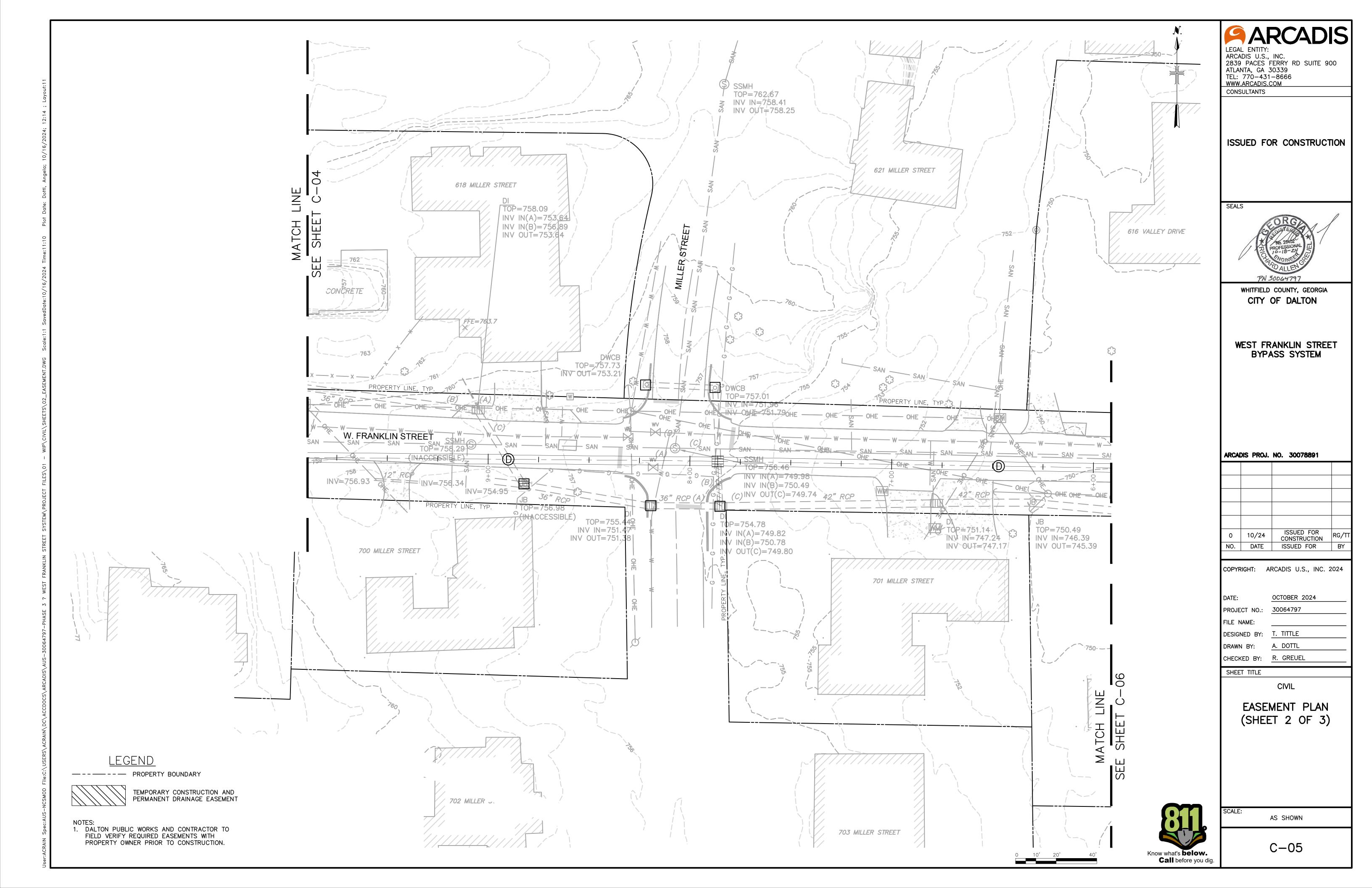


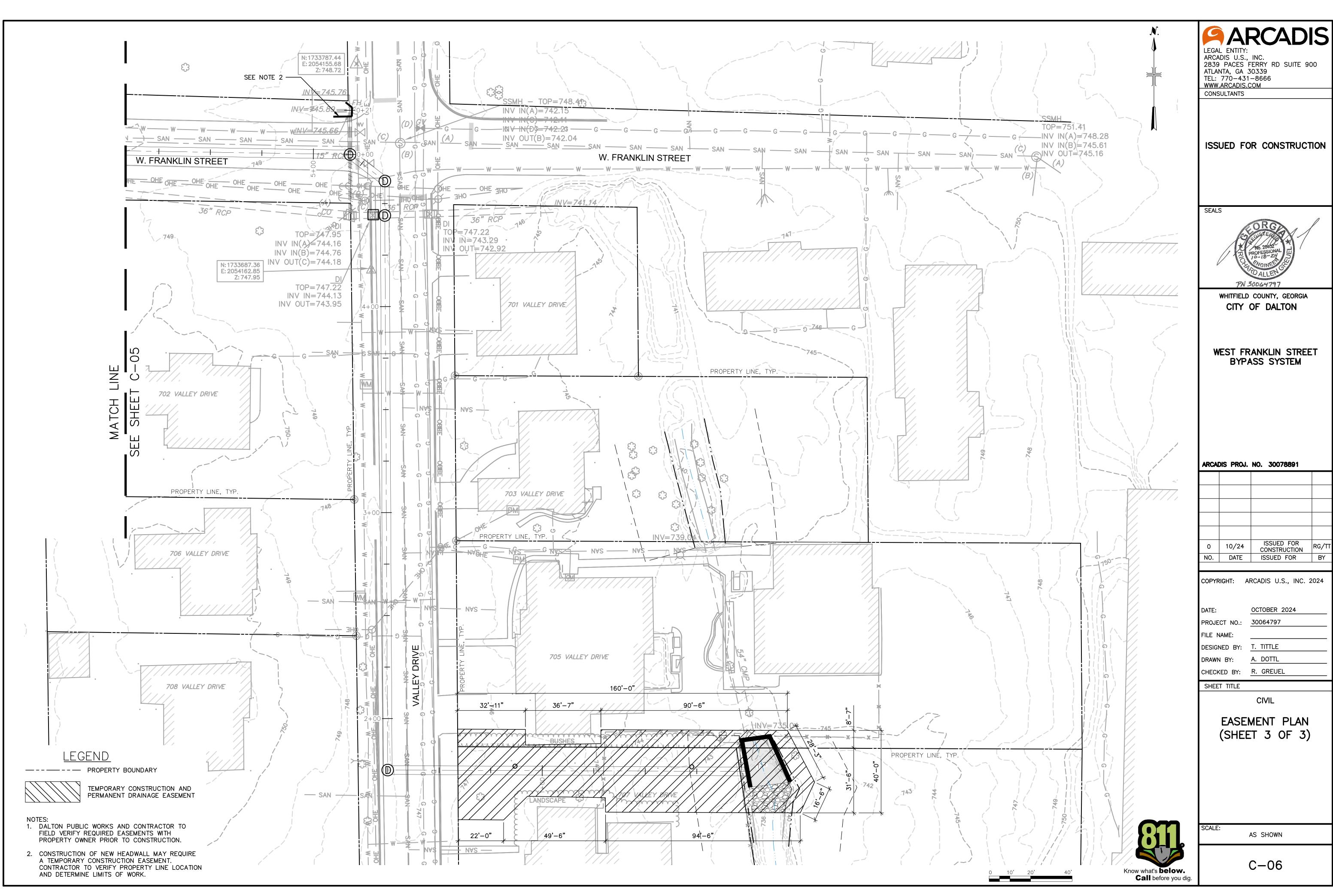


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		30064797	
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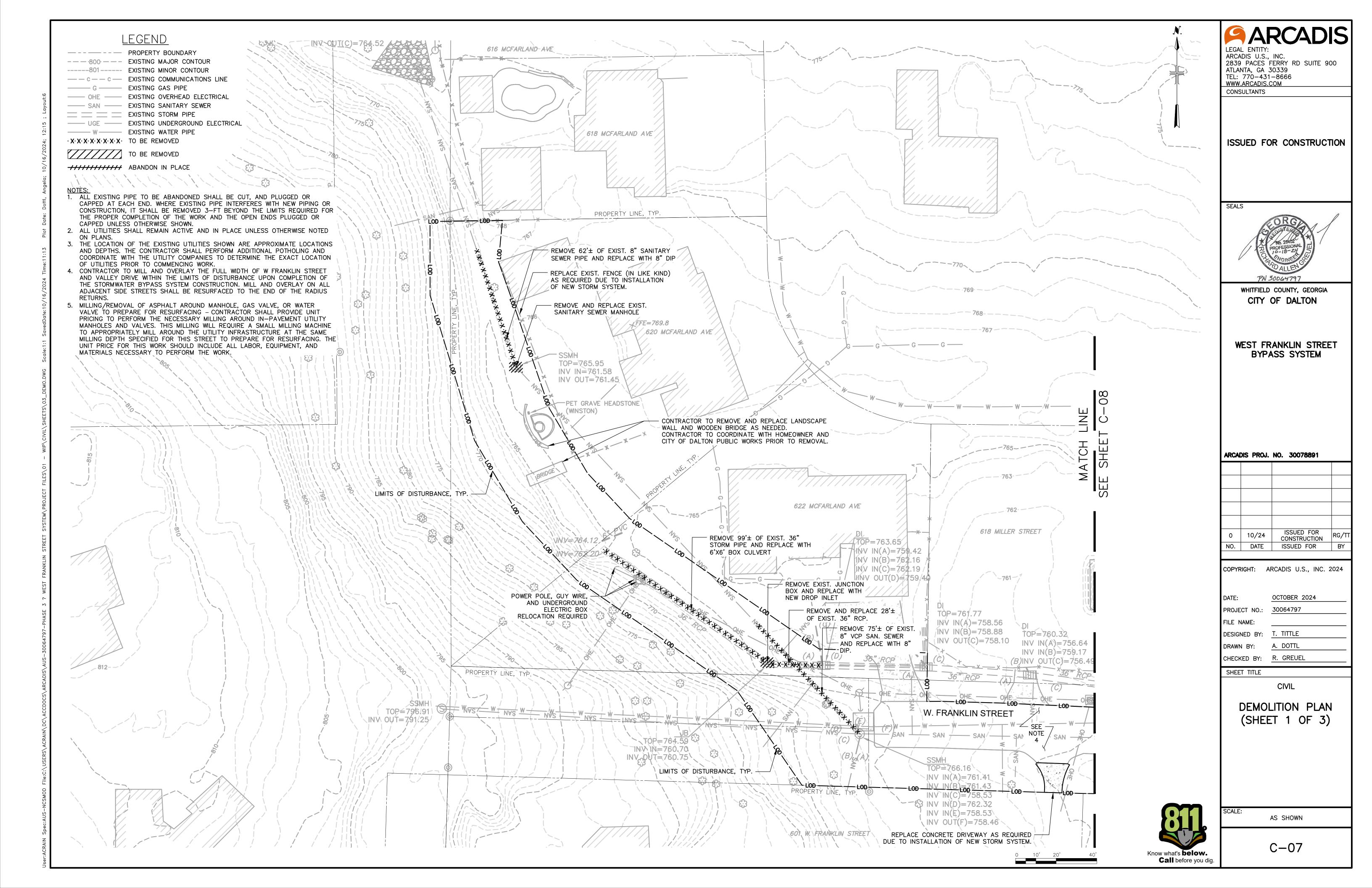






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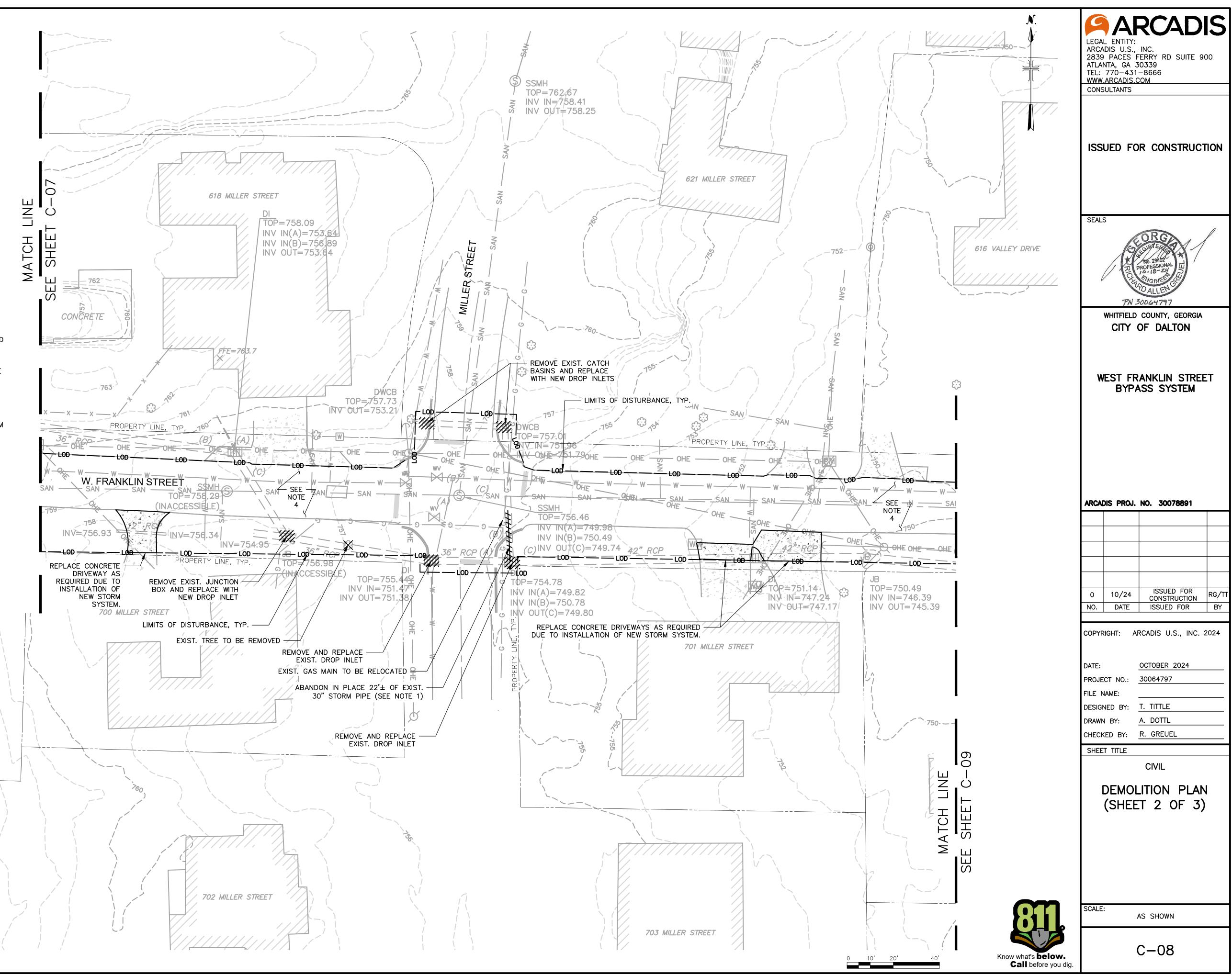


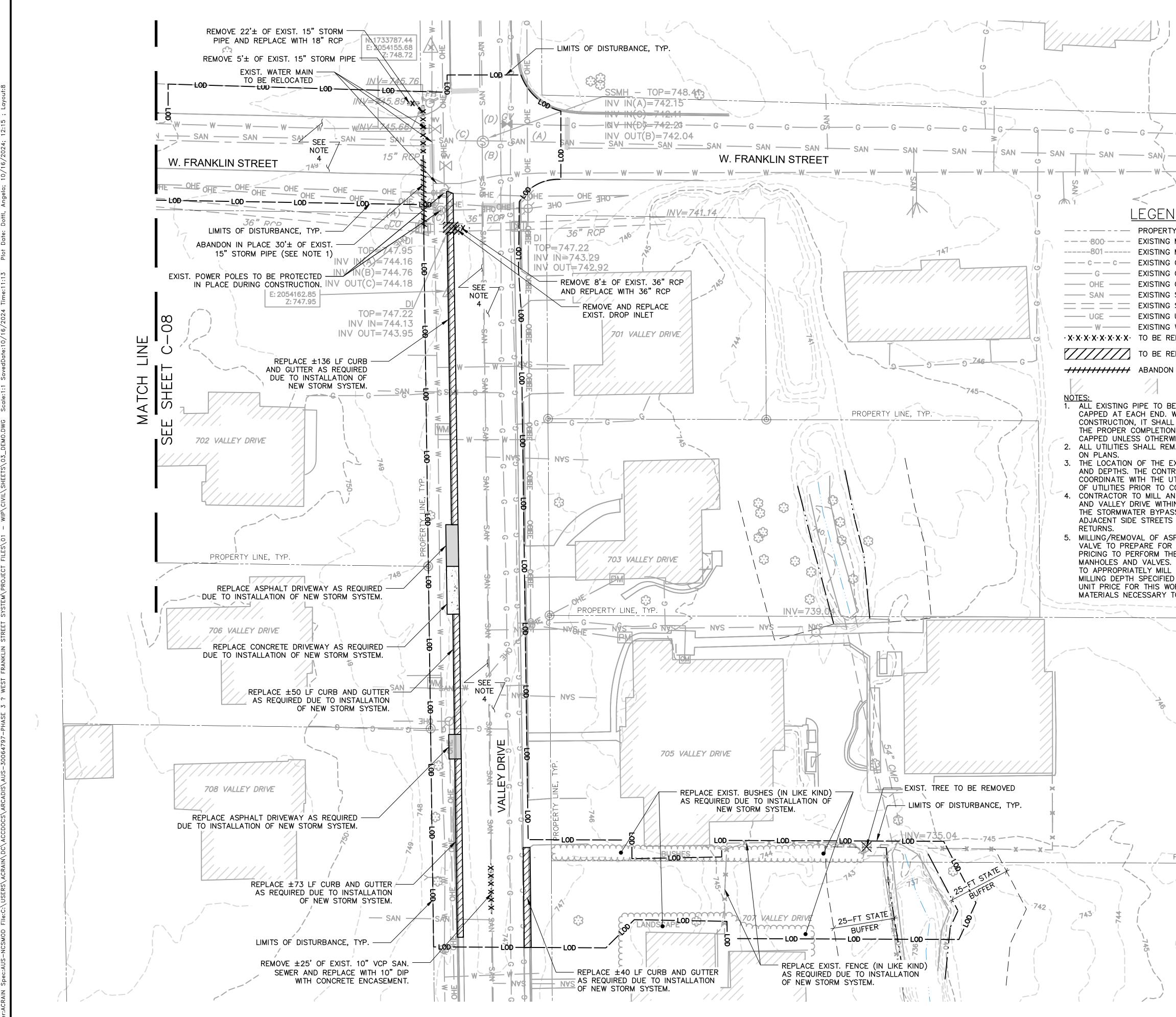
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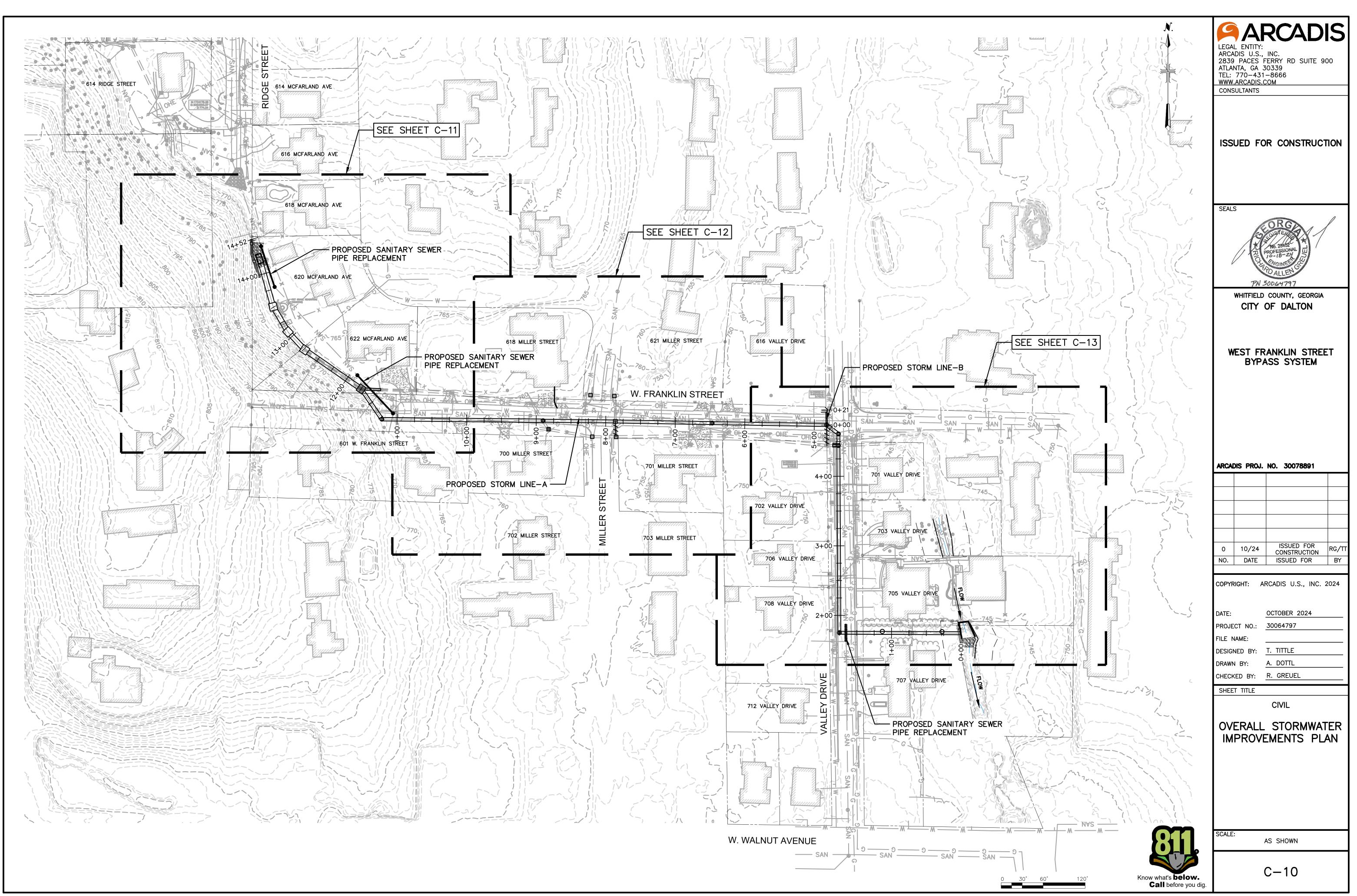
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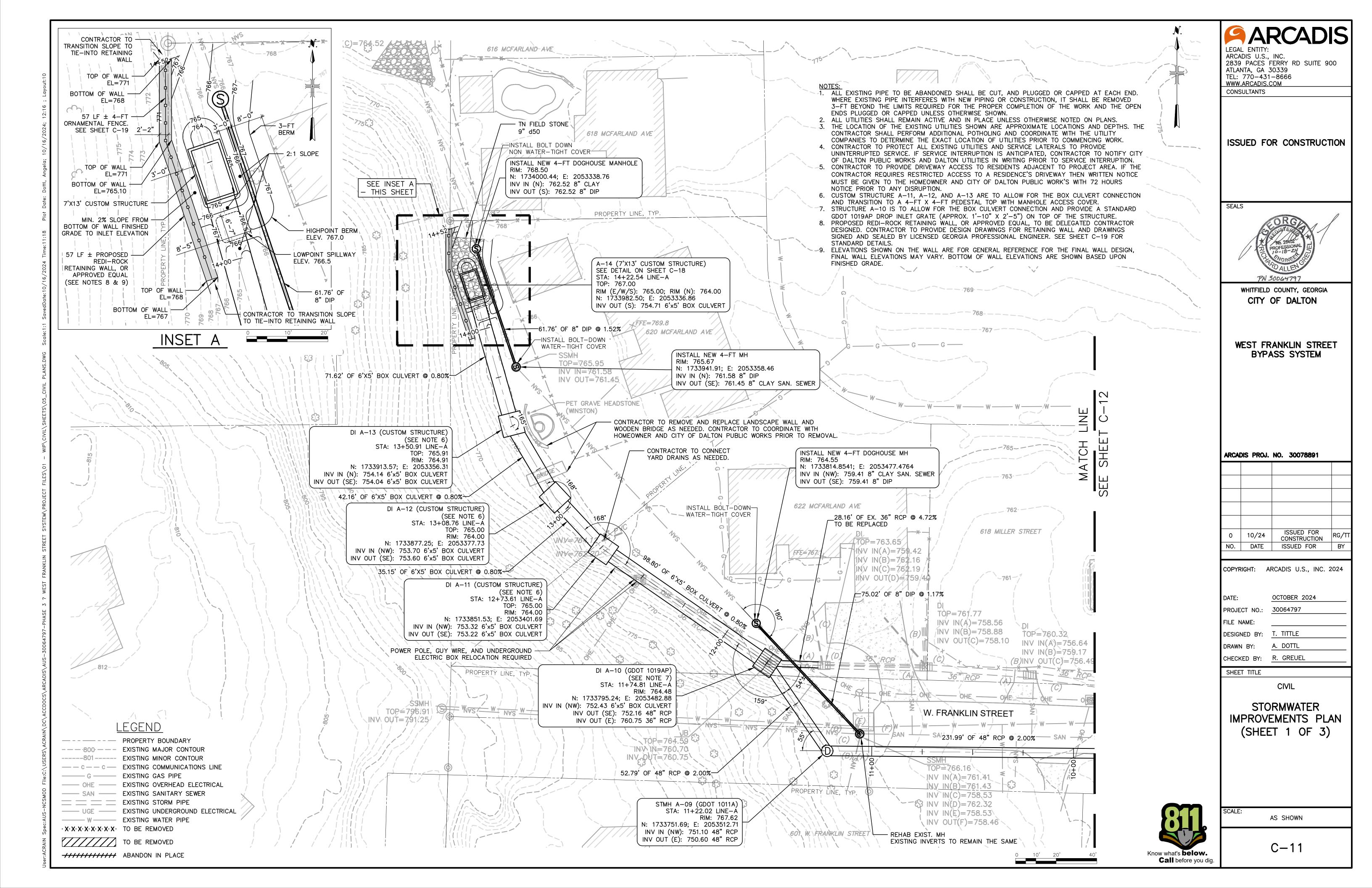
- 1. ALL EXISTING PIPE TO BE ABANDONED SHALL BE CUT, AND PLUGGED OR CAPPED AT EACH END. WHERE EXISTING PIPE INTERFERES WITH NEW PIPING OR CONSTRUCTION, IT SHALL BE REMOVED 3-FT BEYOND THE LIMITS REQUIRED FOR THE PROPER COMPLETION OF THE WORK AND THE OPEN ENDS PLUGGED OR CAPPED UNLESS OTHERWISE SHOWN.
- ALL UTILITIES SHALL REMAIN ACTIVE AND IN PLACE UNLESS OTHERWISE NOTED ON PLANS.
- 3. THE LOCATION OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE LOCATIONS AND DEPTHS. THE CONTRACTOR SHALL PERFORM ADDITIONAL POTHOLING AND COORDINATE WITH THE UTILITY COMPANIES TO DETERMINE THE EXACT LOCATION OF UTILITIES PRIOR TO COMMENCING WORK.
- 4. CONTRACTOR TO MILL AND OVERLAY THE FULL WIDTH OF W FRANKLIN STREET AND VALLEY DRIVE WITHIN THE LIMITS OF DISTURBANCE UPON COMPLETION OF THE STORMWATER BYPASS SYSTEM CONSTRUCTION. MILL AND OVERLAY ON ALL ADJACENT SIDE STREETS SHALL BE RESURFACED TO THE END OF THE RADIUS RETURNS.
- 5. MILLING/REMOVAL OF ASPHALT AROUND MANHOLE, GAS VALVE, OR WATER VALVE TO PREPARE FOR RESURFACING – CONTRACTOR SHALL PROVIDE UNIT PRICING TO PERFORM THE NECESSARY MILLING AROUND IN-PAVEMENT UTILITY MANHOLES AND VALVES. THIS MILLING WILL REQUIRE A SMALL MILLING MACHINE TO APPROPRIATELY MILL AROUND THE UTILITY INFRASTRUCTURE AT THE SAME MILLING DEPTH SPECIFIED FOR THIS STREET TO PREPARE FOR RESURFACING. THE UNIT PRICE FOR THIS WORK SHOULD INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK.

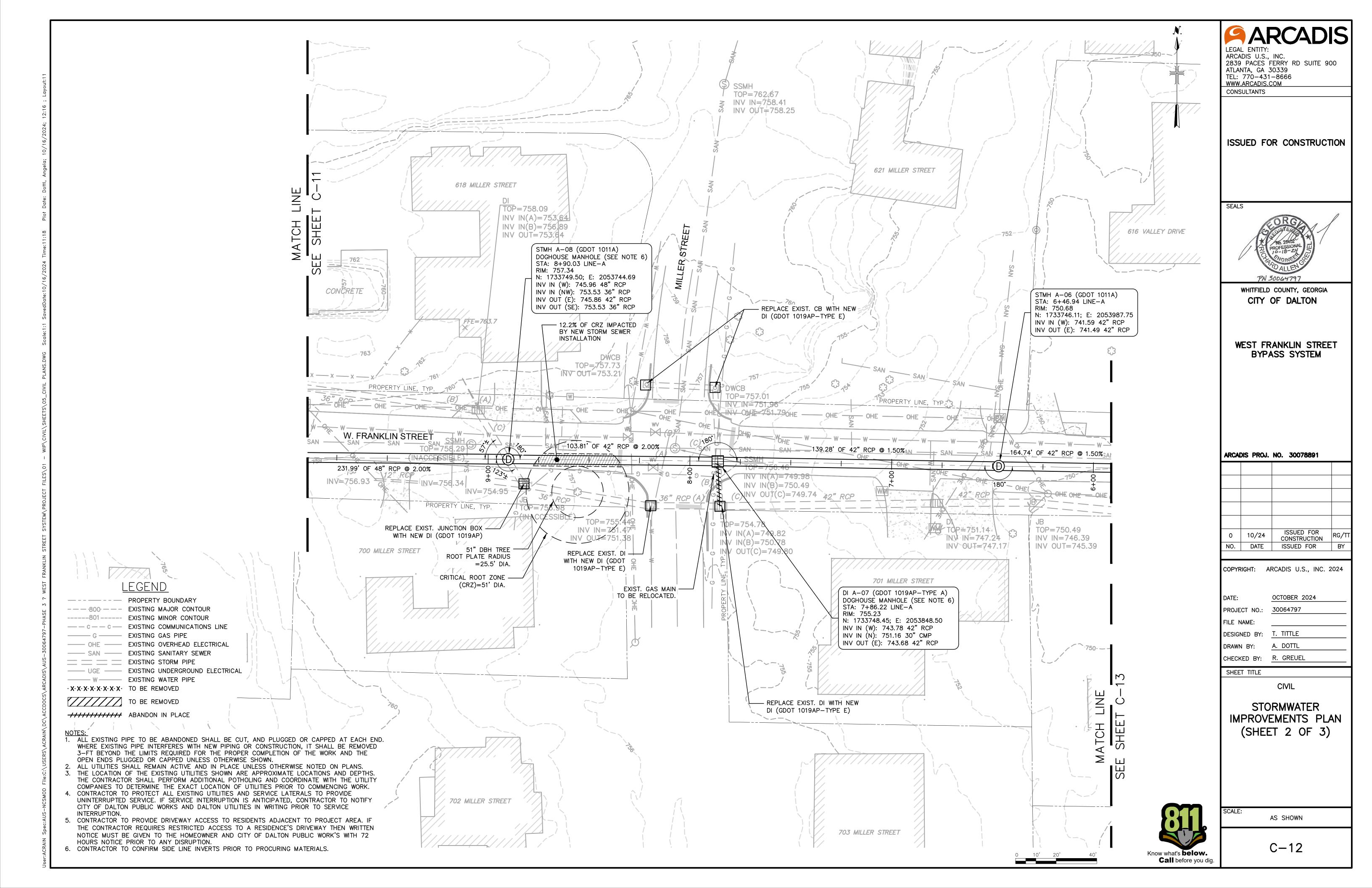


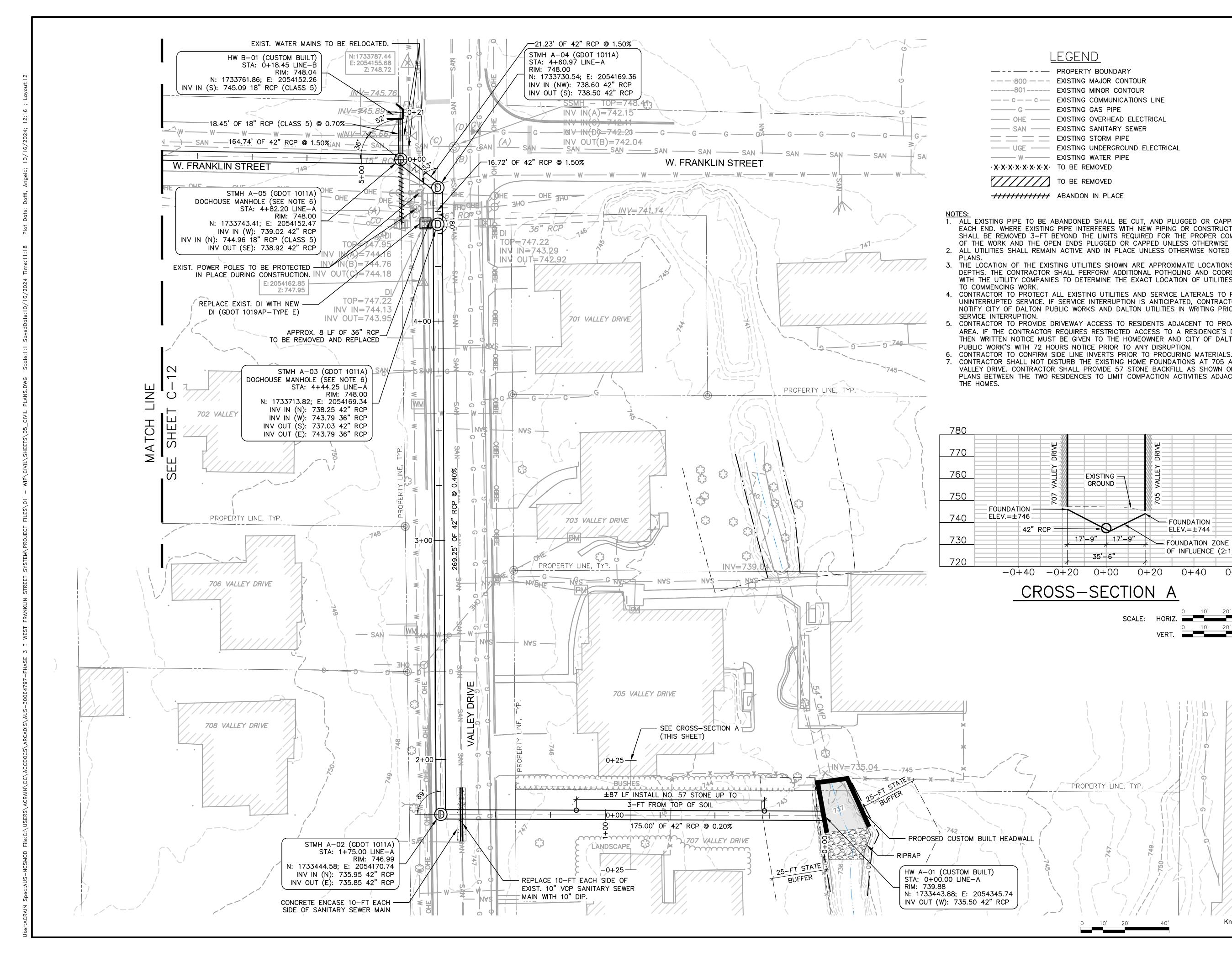


	LEGAL ENTITY: ARCADIS U.S., INC. 2839 PACES FERRY RD SUITE 900 ATLANTA, GA 30339 TEL: 770-431-8666 WWW.ARCADIS.COM CONSULTANTS
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PROPERTY LINE, TYP.	DEMOLITION PLAN (SHEET 3 OF 3)
	SCALE: AS SHOWN C-09
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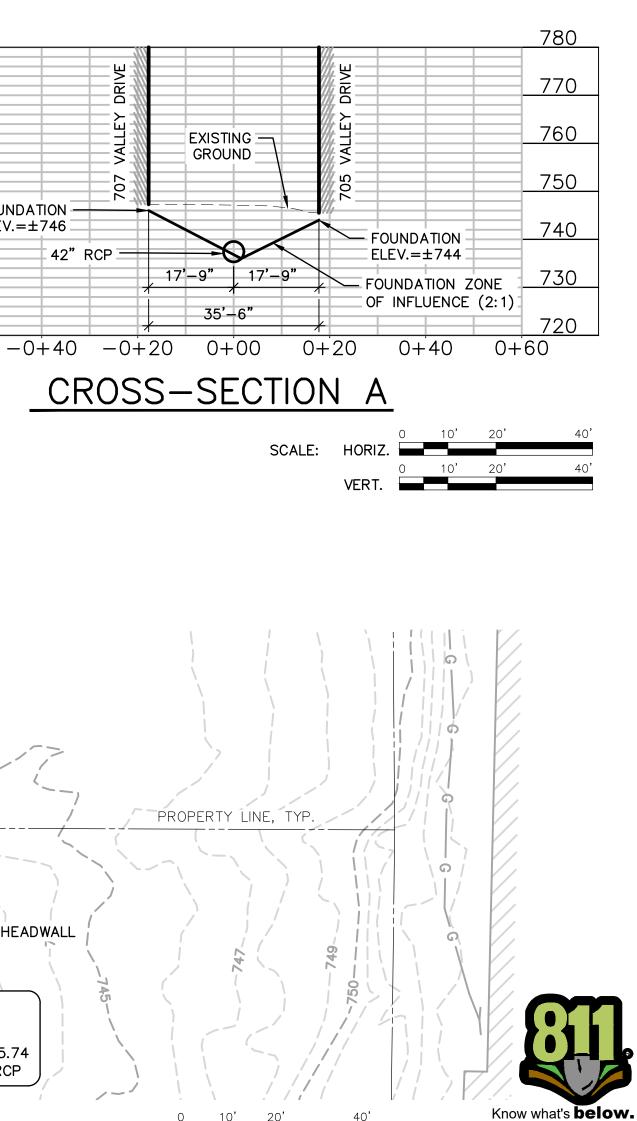
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CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND SERVICE LATERALS TO PROVIDE UNINTERRUPTED SERVICE. IF SERVICE INTERRUPTION IS ANTICIPATED, CONTRACTOR TO NOTIFY CITY OF DALTON PUBLIC WORKS AND DALTON UTILITIES IN WRITING PRIOR TO

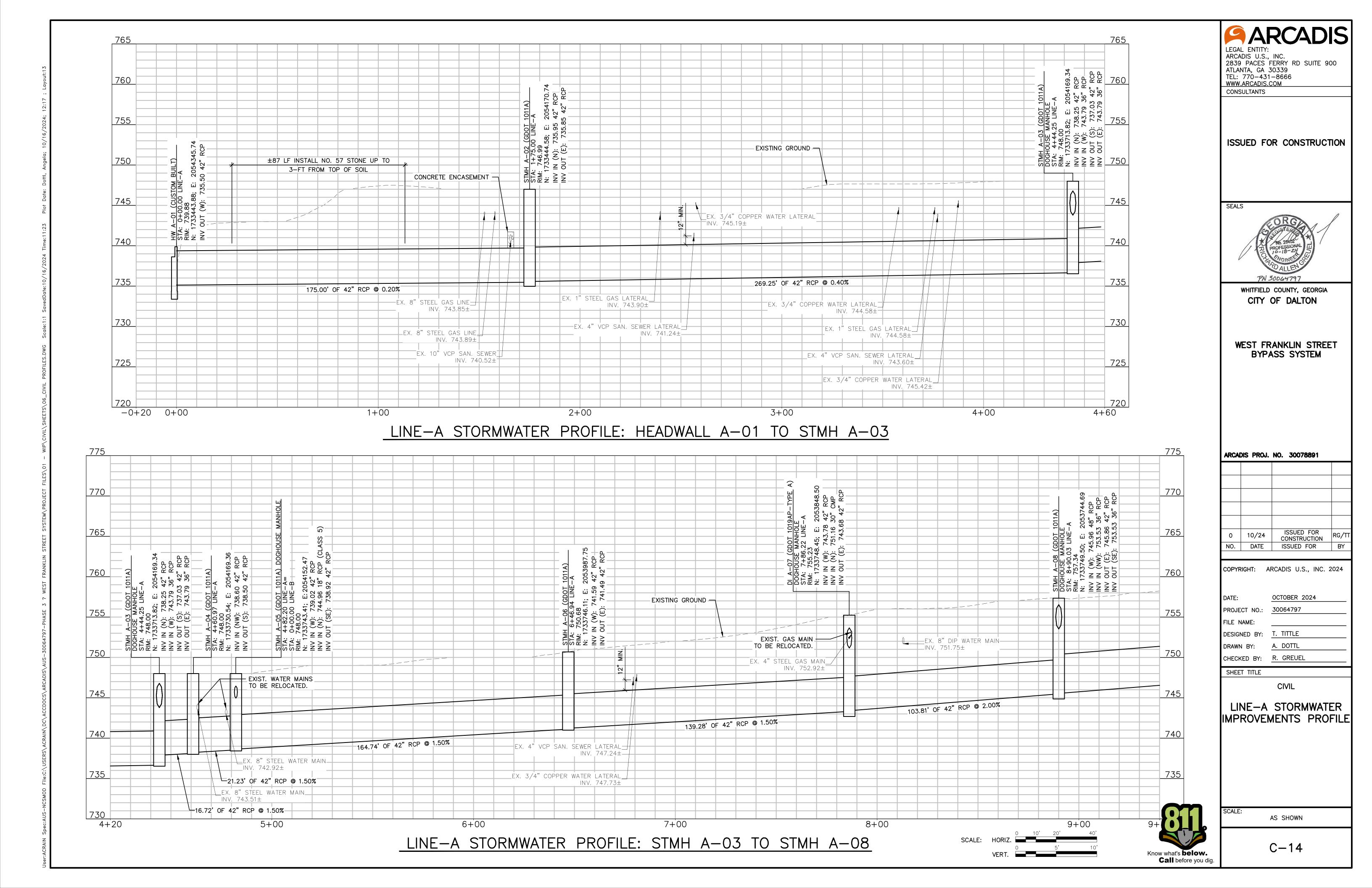
CONTRACTOR TO PROVIDE DRIVEWAY ACCESS TO RESIDENTS ADJACENT TO PROJECT AREA. IF THE CONTRACTOR REQUIRES RESTRICTED ACCESS TO A RESIDENCE'S DRIVEWAY THEN WRITTEN NOTICE MUST BE GIVEN TO THE HOMEOWNER AND CITY OF DALTON PUBLIC WORK'S WITH 72 HOURS NOTICE PRIOR TO ANY DISRUPTION.

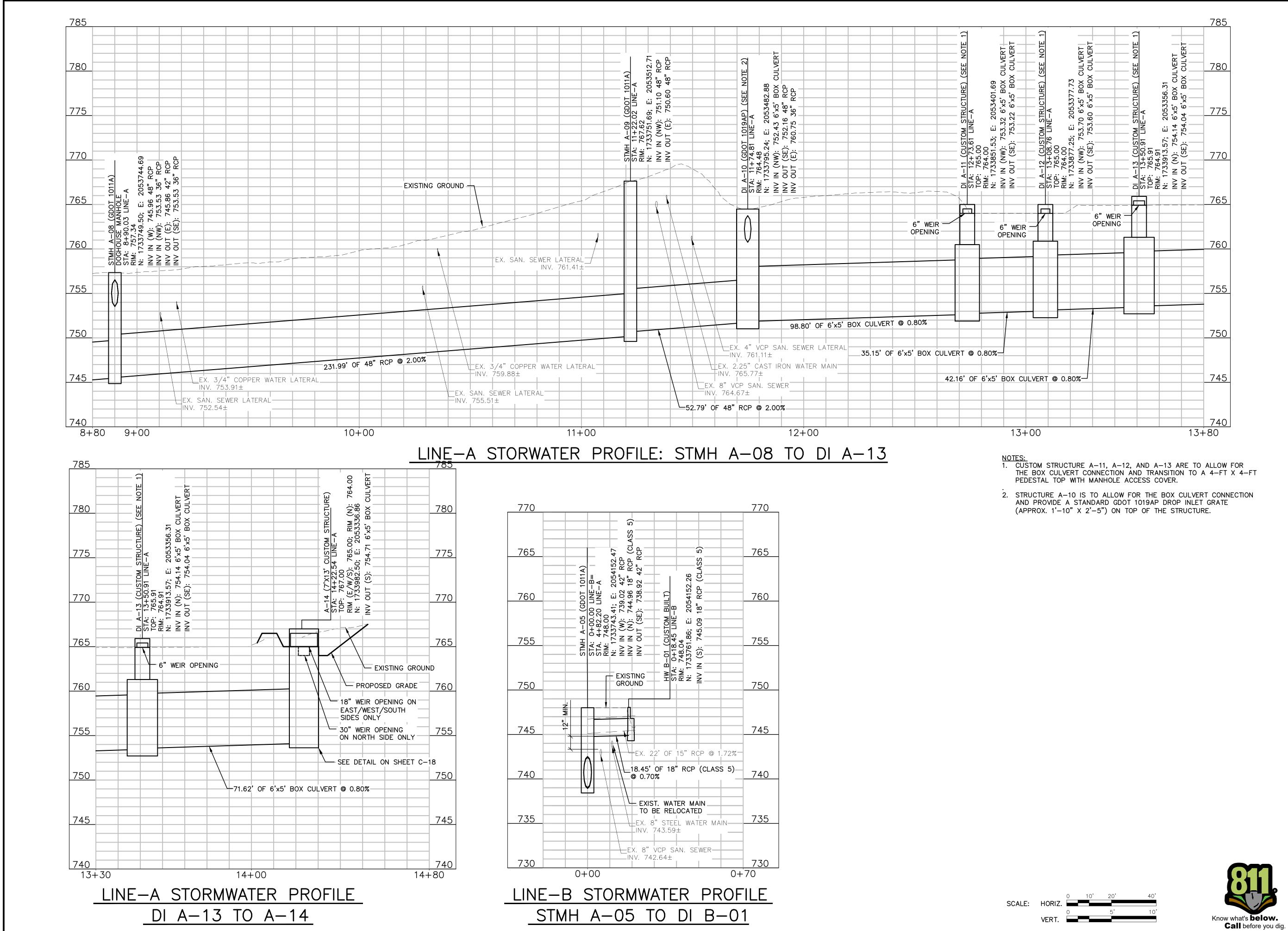
CONTRACTOR SHALL NOT DISTURB THE EXISTING HOME FOUNDATIONS AT 705 AND 707 VALLEY DRIVE. CONTRACTOR SHALL PROVIDE 57 STONE BACKFILL AS SHOWN ON THE PLANS BETWEEN THE TWO RESIDENCES TO LIMIT COMPACTION ACTIVITIES ADJACENT TO



Call before you dig.

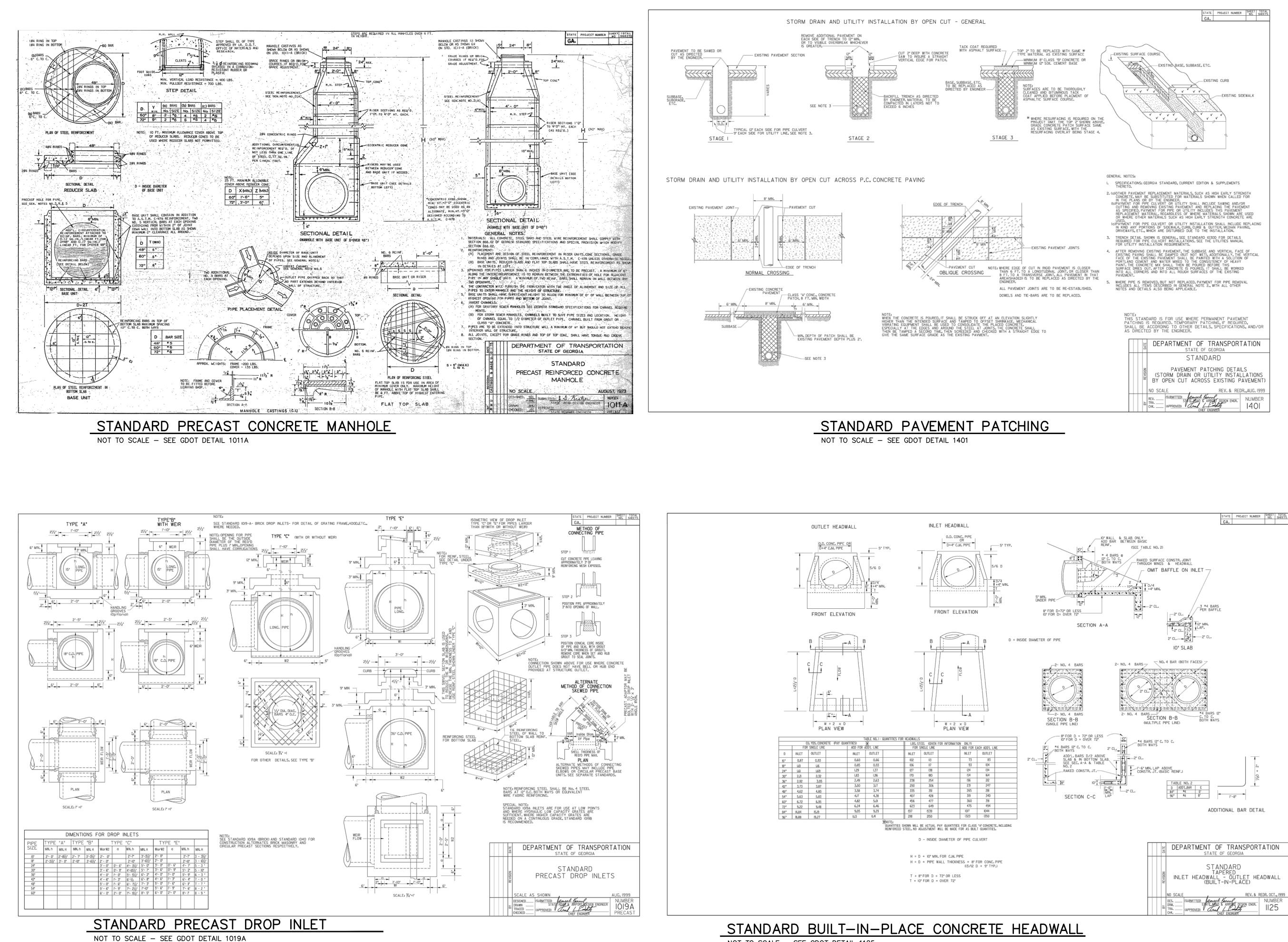
ARCA LEGAL ENTITY: ARCADIS U.S., INC. 2839 PACES FERRY RD SUITE 900 ATLANTA, GA 30339 TEL: 770-431-8666 WWW.ARCADIS.COM CONSULTANTS **ISSUED FOR CONSTRUCTION** SEALS PN 30064797 WHITFIELD COUNTY, GEORGIA CITY OF DALTON WEST FRANKLIN STREET BYPASS SYSTEM ARCADIS PROJ. NO. 30078891 ISSUED FOR 10/24 0 CONSTRUCTION DATE ISSUED FOR NO. BY COPYRIGHT: ARCADIS U.S., INC. 2024 OCTOBER 2024 DATE: PROJECT NO.: 30064797 FILE NAME: DESIGNED BY: T. TITTLE A. DOTTL DRAWN BY: CHECKED BY: R. GREUEL SHEET TITLE CIVIL STORMWATER **IMPROVEMENTS PLAN** (SHEET 3 OF 3) SCALE: AS SHOWN C-13



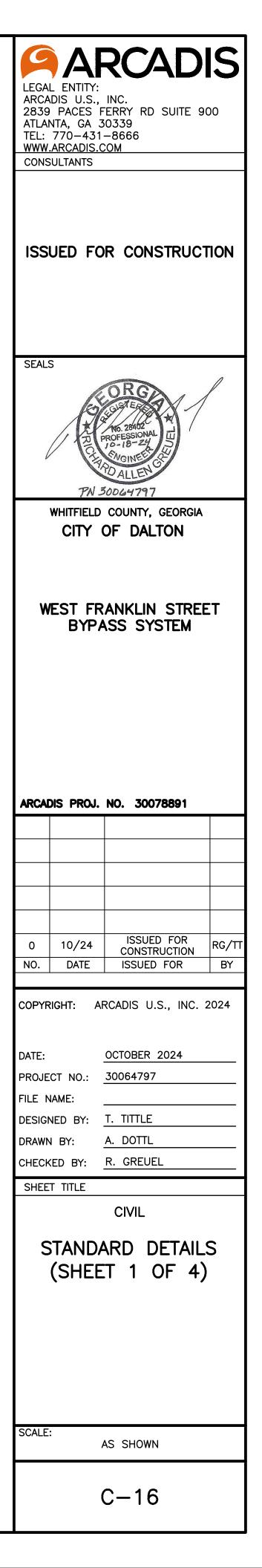


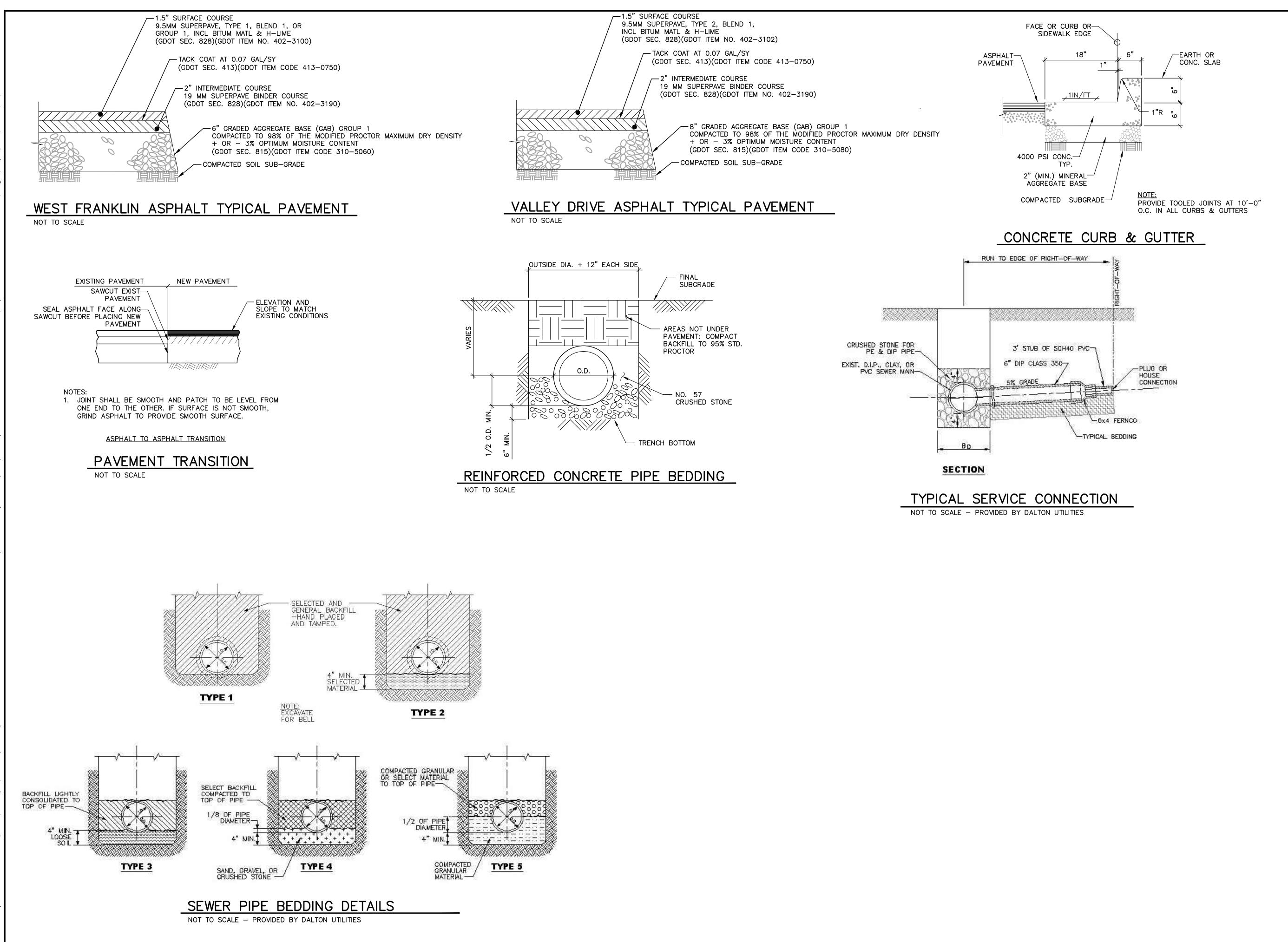
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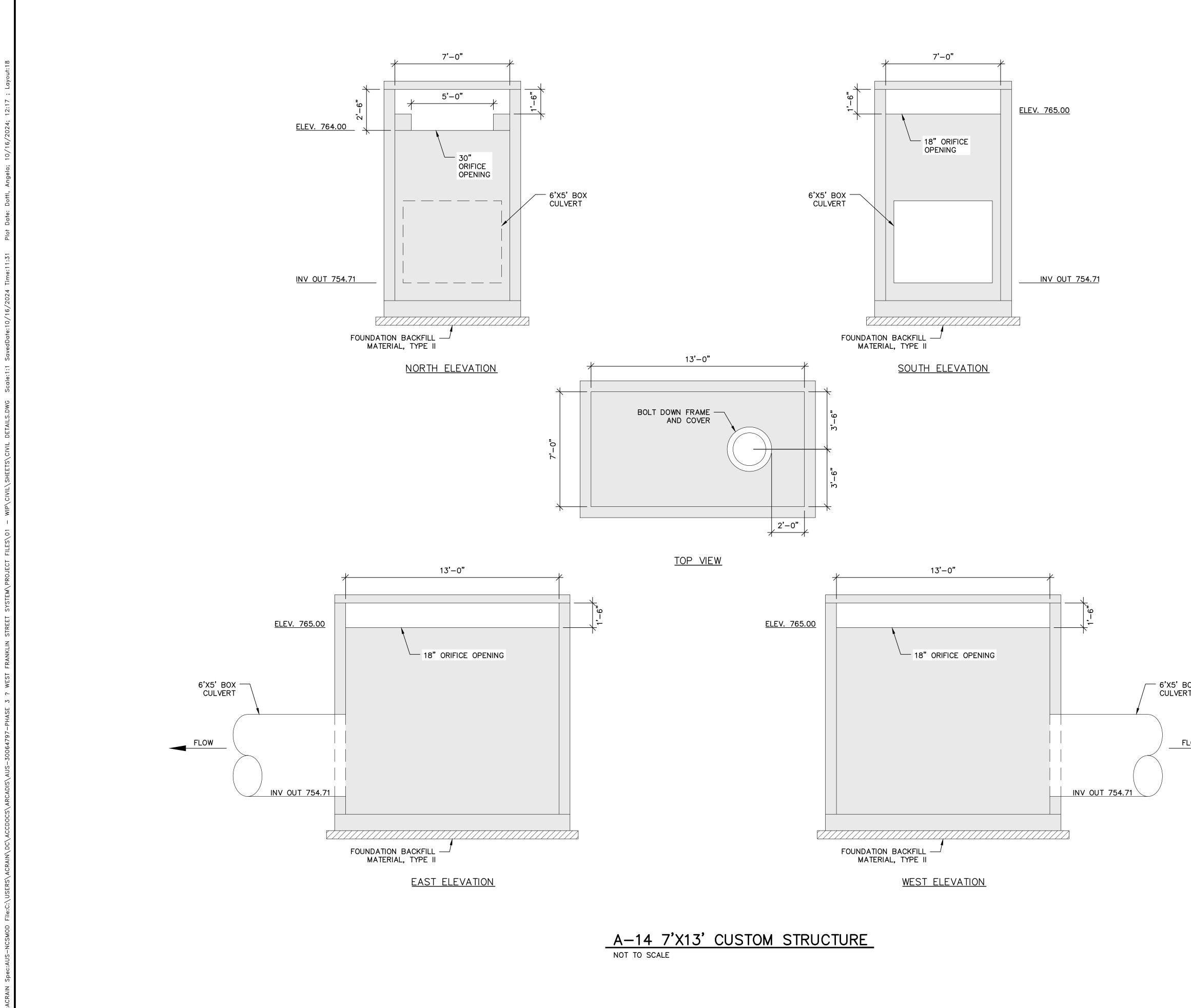


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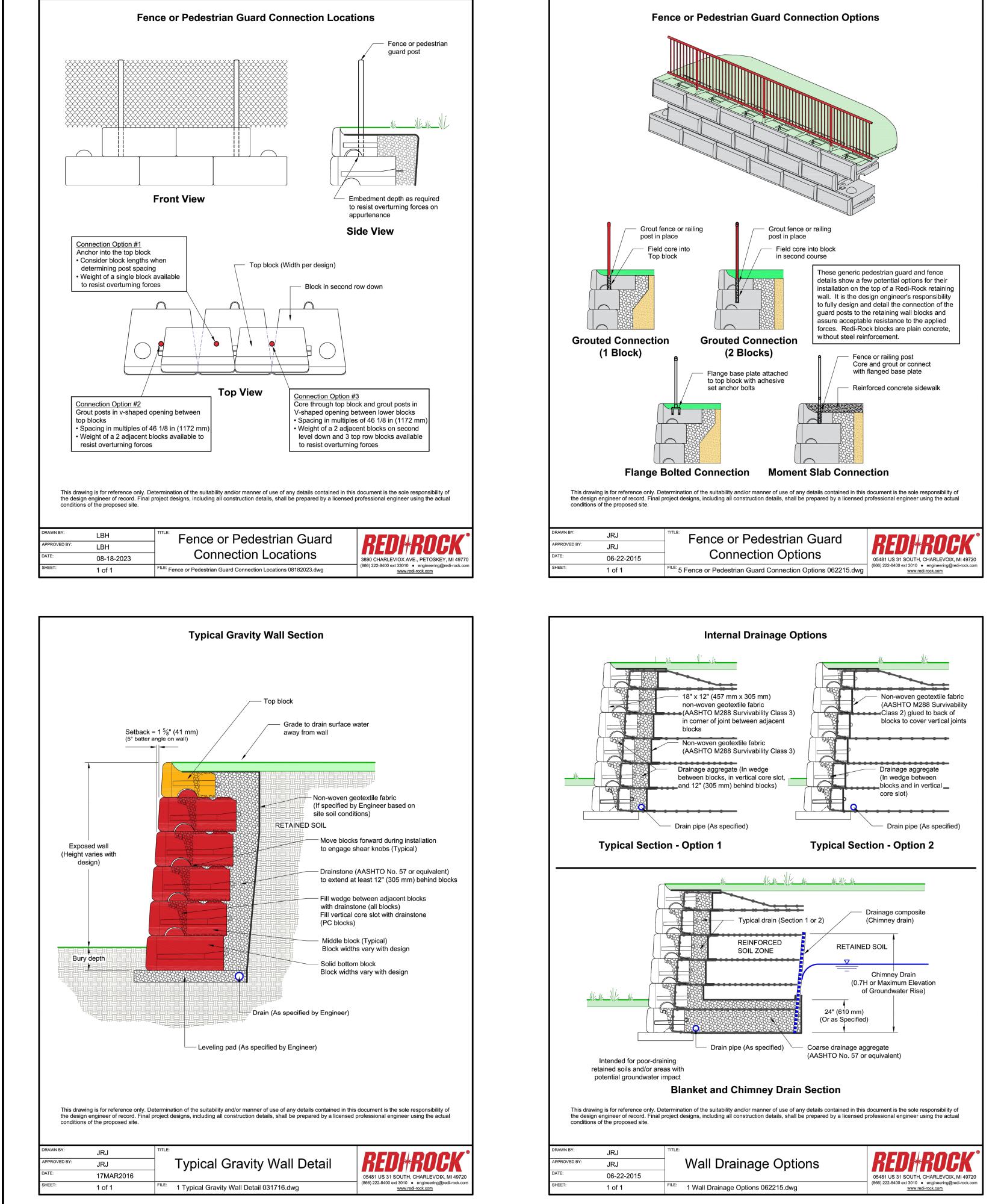
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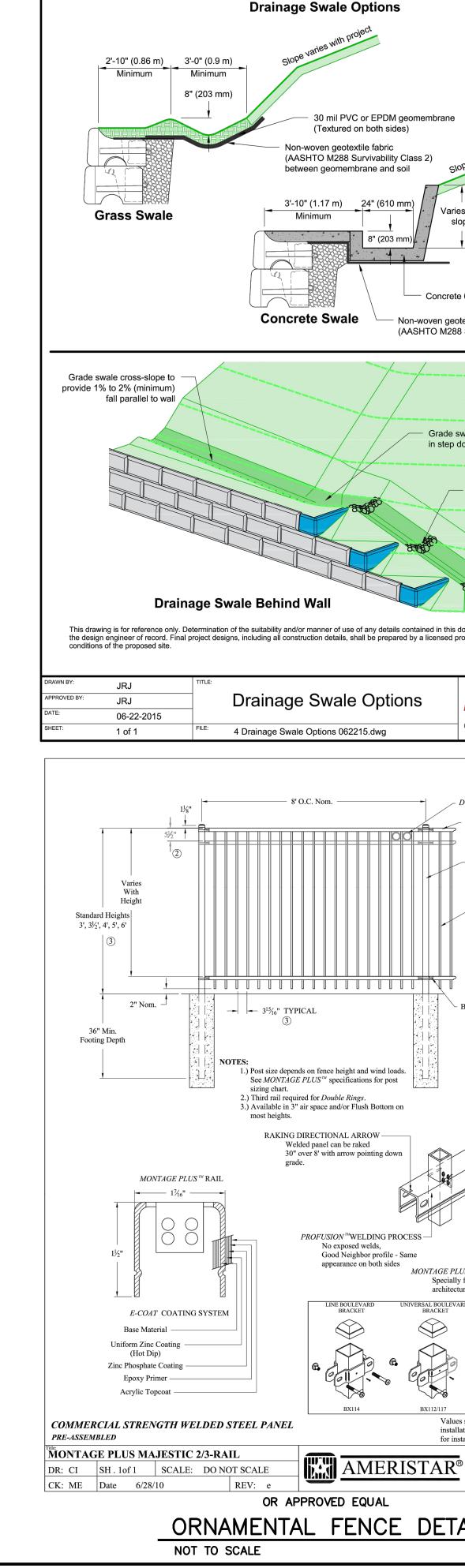
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NOTES:

1. PRECAST MANUFACTURER TO PROVIDE FINAL DESIGN OF CUSTOM STRUCTURE. CRITICAL INVERT ELEVATIONS AND WEIR LENGTHS ARE PROVIDED ON THE SCHEMATIC DETAILS SHOWN BASED UPON THE DESIGN INTENT. ALL OTHER DIMENSIONS TO BE DETERMINED BY PRECAST MANUFACTURER.





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U U U U Image: State Options U <th>05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com</th> <th></th> <th>ARCADIS PROJ. NO. 30078891</th>	05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com		ARCADIS PROJ. NO. 30078891
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PLUS ^B RAIL Wy formed high strength WarKetr W	Bracket Options		DATE: OCTOBER 2024 PROJECT NO.: 30064797 FILE NAME: DESIGNED BY: T. TITTLE DRAWN BY: A. DOTTL CHECKED BY: R. GREUEL
Image: BX111 CONTRACTOR TO ACQUIRE FINAL RETAINING WALL DRAWINGS AND DETAILS FROM THE APPROVED WALL DESIGNER. Image: BX111 Image: BX111	Ully formed high strength ectural shape.		STANDARD DETAILS
<u>C-19</u>	BX111 Uses shown are nominal and not to be used for allation purposes. See product specification installation requirements. 1555 N. Mingo Tulsa, OK 74116 1-888-333-3422	 PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO ACQUIRE FINAL RETAINING WALL DRAWINGS AND DETAILS FROM THE APPROVED WALL DESIGNER. 2. CONTRACTOR TO COORDINATE WALL AND FENCE CONNECTION 	
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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
			1	
	CHECKDAM		J	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION		FT	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr, est	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1 (LABEL)	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE	The second secon	Dn2 (LABEL)	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING	I		A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION	-	- Solar	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Sr (LABEL)	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LE VEL SPREADER		÷	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM		J.	A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL	*	(LABEL)	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING	P	(LABEL)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
(Sd1)	SEDIMENT BARRIER		TYPE (NDICATE TYPE)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP	V V V V V V V V V V V V V V V V V V V		An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN		Spb (LABEL)	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER		Sk)~~	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM		(LABEL)	A linear control device constructed as a diversion perpendicular to the direction of the runoff to enhance dissipation and infiltration of runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

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

VEGETATIVE PRACTICES

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

CONSTRUCTION SEQUENCE:

1. FOR EACH STAGE OF CONSTRUCTION THE FOLLOWING SEQUENCE WILL APPLY:

- 1.1. CONFIRM LOCATIONS OF AND CONSTRUCT/INSTALL INITIAL EROSION AND SEDIMENT CONTROL BMPS WITHIN THE LIMITS OF THE STAGE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES ON SITE. INITIAL EROSION AND SEDIMENT CONTROL BMPS SHALL INCLUDE THE FOLLOWING: CONSTRUCTION FENCING, TREE PROTECTION FENCING, SILT FENCING, INLET SEDIMENT TRAPS, SAND BAG SEDIMENT BARRIER, AND CONSTRUCTION ENTRANCES. ALL EROSION AND SEDIMENT CONTROL BMPS TO BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS.
- 1.2. CLEAR AND GRUB TO THE LIMITS REQUIRED FOR CONSTRUCTION AND REMOVE EXISTING TREES AS SHOWN ON THE PLANS.
- 1.3. EXCAVATE TRENCHES FOR INSTALLATION OF THE STORM WATER MANAGEMENT SYSTEM. AS NECESSARY, CONSTRUCT PIPE DIVERSIONS TO DIVERT AND BYPASS RUNOFF FROM EXISTING SYSTEM.
- 1.4. BEGIN INTERMEDIATE PHASE EXCAVATION AND GRADING ACTIVITIES AFTER ALL REQUIRED INITIAL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND CONSTRUCTED.
- 1.5. BEGIN CONSTRUCTION OF STORM DRAINAGE INFRASTRUCTURE, UTILITY RELOCATIONS, CURB AND GUTTER, DRIVEWAYS, ROADWAYS, AND REMAINING STRUCTURES AS SHOWN ON PLANS. INSTALL INLET PROTECTION AS SHOWN ON PLANS.
- 1.6. ESTABLISH FINISHED GRADES AT EARLIEST POSSIBLE DATE. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION AND MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS IN ACCORDANCE WITH NPDES REQUIREMENTS. ONCE FINAL GRADES ARE ESTABLISHED, APPLY PERMANENT SOIL STABILIZATION IN ACCORDANCE WITH PLANS. ANY DISTURBED AREA REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.

2. THE FOLLOWING SHALL APPLY AFTER ALL CONSTRUCTION STAGES ARE COMPLETE:

- 2.1. AFTER FINAL STABILIZATION FOR THE PROJECT AS DEFINED BY NPDES GAR100002 IS ACHIEVED, RETURN TO THE SITE AND REMOVE ALL TEMPORARY MEASURES INCLUDING SILT FENCES, SEDIMENT TRAPS, AND DIVERSIONS. INSTALL PERMANENT VEGETATION TO ALL AREAS (EXCEPT IMPERVIOUS SURFACES) DISTURBED BY THE TEMPORARY MEASURES.
- 2.2. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING CONSTRUCTION FENCING, TREE PROTECTION FENCING, AND CONSTRUCTION ENTRANCES WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION.

ANDSCAPING:

1. CONTRACTOR TO REPLACE ANY DISTURBED LANDSCAPED AREAS TO EXISTING CONDITIONS. CONTRACTOR TO DOCUMENT EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND PROVIDE CITY OF DALTON PUBLIC WORKS WITH DOCUMENTATION OF POST-CONSTRUCTION RESTORATION.

MANAGEMENT PLAN:

- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY AND AFTER EVERY RAINFALL. ALL NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO PREVENT FURTHER DAMAGE AND EROSION. STRUCTURES THAT SHALL BE INSPECTED INCLUDE:
- SEDIMENT BARRIER SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. SEDIMENT BARRIERS SHALL BE REPLACED PER MANUFACTURER'S RECOMMENDATIONS OR THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING 80% OF ITS PROPERLY INSTALLED HEIGHT.
- 2. CHECK DAM SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DAM HEIGHT.
- STORM DRAIN OUTLET PROTECTION INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.
- SLOPE STABILIZATION ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.
- TEMPORARY SEDIMENT TRAP REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE SPECIFIED CLEANOUT ELEVATION. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT, ADJACENT TO A STREAM OR FLOODPLAIN.
- INLET SEDIMENT TRAP TRAP SHOULD BE CLEANED OUT AFTER HEAVY RAIN EVENTS. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.
- SEEDING, FERTILIZING, AND MULCHING SEEDED AREAS SHALL BE INSPECTED FOR FAILURE AND NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.
- 8. STOCKPILES STOCKPILES SHALL BE CHECKED FOR EROSION AND STABILIZATION.
- 9. CONSTRUCTION ENTRANCE/EXIT INSPECT CONSTRUCTION ROAD SURFACE DAILY, MAINTAIN WHEN NEEDED IN A CONDITION TO PREVENT SEDIMENT AND TOPSOIL FROM LEAVING THE SITE.
- 10. DIVERSION INSPECT FOR ANY EROSION. REMOVE SEDIMENT WHEN SEDIMENT ACCUMULATES TO 4 INCHES.

<u>SITE SOILS</u>

- THE LIMIT OF DISTURBANCE INCLUDES THE FOLLOWING SOIL TYPES AS IDENTIFIED IN THE NRCS WEB SOIL SURVEY: • EUC: ENDERS-URBAN LAND COMPLES, 2% TO 15% SLOPES
- HnC: HANCEVILLE-URBAN LAND COMPLEX, 2% TO 15% SLOPES

SITE NOTES:

- 1. PROJECT IS LOCATED IN WHITFIELD COUNTY WITHIN THE CITY OF DALTON, GEORGIA.
- THE TOTAL LAND DISTURBANCE IS 1.45 ACRES. THE CALCULATION FOR DISTURBED AREA FOR THIS PROJECT, INCLUDES THE SUM OF ALL AREAS WITHIN THE LOD (LIMITS OF DISTURBANCE), AS SHOWN ON THE ATTACHED DRAWINGS.
- THE RECEIVING WATER FOR THIS PROJECT IS TAR CREEK. THE SITE CONSTRUCTION STORMWATER DOES NOT DISCHARGE INTO AN IMPAIRED STREAM OR 1-MILE UPSTREAM OF AN IMPAIRED STREAM SEGMENT.
- 4. THE TOTAL CONTRIBUTING DRAINAGE AREA IS APPROXIMATELY 26.8 ACRES.
- 5. IT IS ANTICIPATED THAT THE PROJECT WILL NOT HAVE ANY BUFFER ENCROACHMENTS THAT REQUIRE A BUFFER VARIANCE DUE TO THE INSTALLATION OF STORMWATER INFRASTRUCTURE.
- WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND, 2) THE APPROPRIATE PLAN SHEET [] DOES/[X] DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND, 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLAND SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED OBTAINED.
- 7. THIS SITE DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE "AE" OR "A" PER THE FIRM MAPS OF THE CITY OF DALTON FLOOD INSURANCE STUDY. FIRM MAP NUMBER: 13313C0138D, EFFECTIVE DATE: SEPTEMBER 19, 2007.
- 8. THE PRE-DEVELOPMENT RUNOFF COEFFICIENT (CN) IS 74.00 AND THE POST-DEVELOPMENT RUNOFF COEFFICIENT IS 74.00.
- 9. MAINTENANCE AND TRAFFIC: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ROAD PERMITS FROM THE CITY OF DALTON DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION INCLUDING PROVIDING ANY RESTORATION BONDS. THE CONTRACTOR SHALL PROVIDE A DETAILED PHASED TRAFFIC CONTROL PLAN BASED ON THE PROPOSED WORK PHASING AS DETERMINED BY THE CONTRACTOR.
- 10. PRIMARY PERMITTEE & 24-HOUR CONTACT: DALTON PUBLIC WORKS DEPARTMENT ATTN: JACKSON SHEPPARD P.O. BOX 1205 535 ELM STREET BH: 706 277 2000

PH: 706-277-2606

11. CONTRACTOR TO COORDINATE LAYDOWN AND MATERIAL STORAGE AREA WITH CITY OF DALTON PUBLIC WORKS. ALL MATERIAL STORAGE AREA AND LAYDOWN AREAS MUST BE WITHIN THE PERMITTED LIMITS OF DISTURBANCE AND OUTSIDE OF THE STREAM BUFFER.

EROSION CONTROL

- EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS / SPECIFICATIONS IN THE "MANUAL FOR EROSION CONTROL AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION.
- 2. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.
- 3. PERMANENT VEGETATION SHALL BE PLACED AT ALL AREAS GRADED TO FINAL GRADE IMMEDIATELY UPON COMPLETION. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (DS1). ON SLOPES THAT ARE 2:1 OR STEEPER, MULCH WILL BE ANCHORED.
- IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH THE HEIGHT TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
- SEDIMENT / EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN ANY ADDITIONAL EROSION CONTROL MEASURES AS DIRECTED BY THE GOVERNING JURISDICTION AND/OR THE ENGINEER.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES AND ENSURE THAT THEY ARE PROPERLY FUNCTIONING PRIOR TO ANY LAND DISTURBANCE ACTIVITIES.
- AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 10. ANY DISTURBED AREAS LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 11. BUILDING MATERIALS AND BUILDING PRODUCTS NOT IN USE SHALL BE COVERED BY HEAVY
- 12. 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.

TREE PROTECTION

- TRENCH TO PROMOTE NEW ROOT GROWTH.

- 4. TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING OR GRADING.

CONTRACTOR TO CONSULT CITY OF DALTON ARBORIST PRIOR TO ANY EXCAVATION NEAR TREES OR TREE PRUNING.

		CONSTR	RUCTION SCHEDU	ILE		
ACTIVITY	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6
SITE PREPARATION	—					
EROSION CONTROL						
STORMWATER INSTALLATION						
PAVEMENT REPLACEMENT						
RESTORATION						

POLLUTION CONTROLS

- 3.4. <u>CONSTRUCTION MATERIALS</u> NO CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF ACCORDING TO APPLICABLE STATE AND LOCAL REGULATIONS.

PROJECT DESCRIPTION

THE PROPOSED WEST FRANKLIN STREET BYPASS SYSTEM WILL ASSIST IN ADDRESSING LOCALIZED FLOODING ISSUES. THE GOAL IS TO REDUCE THE OCCURRENCE OF FLOODING ALONG W. FRANKLIN STREET BY INCREASING THE CAPACITY OF DRAINAGE INFRASTRUCTURE. THE W. FRANKLIN STREET BYPASS INCLUDES INSTALLATION OF A NEW CONVEYANCE SYSTEM, AND OTHER DRAINAGE SYSTEM IMPROVEMENTS.

WHEN DIGGING NEAR TREES, THE CONTRACTOR SHALL PRUNE ALL EXPOSED ROOTS ONE INCH IN DIAMETER OR LARGER ON THE SIDE OF THE TRENCH ADJACENT TO THE TREES. PRUNING SHALL CONSIST OF MAKING A CLEAN CUT FLUSH WITH THE SIDE OF THE

2. THE CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION ON SITE EXCEPT AS APPROVED BY THE ENGINEER AND/OR CITY OF DALTON.

3. PROTECT THE TRUNKS OF ANY TREES BEING PRESERVED WITHIN THE TEMPORARY OR PERMANENT EASEMENTS WITH STRAPPED ON PLANKING OR SIMILAR PROTECTIVE DEVICE.

1. BMP'S SUCH AS CONSTRUCTION EXITS, WATERING STATIONS, AND SWEEPERS MAY BE UTILIZED TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST.

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.

PETROLEUM BASED PRODUCTS— CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON—SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

3.1. <u>SOLVENTS</u> ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

3.2. CONCRETE TRUCK WASHING— WASHOUT OF CONCRETE DRUMS AT THE CONSTRUCTION SITE IS PROHIBITED. CONTRACTOR IS TO SELECT LOCATIONS ON THE SITE FOR CONCRETE WASH DOWN THAT MEET THE CONDITIONS OF THE NPDES STAND ALONE PERMIT. CONCRETE WASH DOWN AREA SHOULD BE OUTSIDE OF THE AREA THAT IS MARKED FOR EXCAVATION. CONTRACTOR SHALL SELECT AN EPA RECOMMENDED WASHOUT BMP TO BE USED AND SUBMIT LOCATIONS AND WASH OUT BMP TYPE FOR ENGINEER'S APPROVAL.

3.3. FERTILIZER/HERBICIDES— THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

3.5. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

SOIL CLEANUP AND CONTROL PRACTICES 4.1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES MADE AVAILABLE TO SITE PERSONNEL.

4.2.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 PROPERTY LABELED PLASTIC AND METAL WASTE CONTAINERS.

4.3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

4.4. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

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

4.6.FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS A 1-800-424-8802. 4.7.FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

4.8.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.

4.9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

5. SANITARY UNIT WILL BE ONSITE TO COLLECT ALL SANITARY WASTE DURING CONSTRUCTION ACTIVITY.



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ESC-01

		EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST INFRASTRUCTURE CONSTRUCTION PROJECTS SWCD: CITY OF DALTON
oject Name: WEST F		
ty/County: <u>DALTON</u> ame & email of perso		Date on Plans: <u>OCTOBER 2024</u> ecklist: <u>Angela Dottl, Angela.Dottl@arcadis.com</u>
an	Included	TO BE SHOWN ON ES&PC PLAN
ge #	Y/N	
ESC-02	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
		(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
ESC-01 to ESC-16	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional.
FSC 01		(Signature, seal and level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
ESC-01 ESC-01		3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.4 Provide the name, address, email address, and phone number of primary permittee.
ESC-01		5 Note total and disturbed acreages of the project or phase under construction.
ESC-08/10/11/13		6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
ESC-01 to ESC-16		7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
ESC-01		8 Descriptions of the nature of construction activity and existing site conditions.
COVER& C-10	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
ESC-01	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas,
		wetlands, marshlands, etc. which may be affected.
ESC-02	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the normit
		Plan as stated on Part IV page 21 of the permit.
ESC-02		12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. *
ESC-02		13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative
	┛┖─┴┛	sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. *
ESC-02	ΤΓΥ	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the
		initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation."
		in accordance with Part IV.A.5 page 26 of the permit. *
ESC-01	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream
		buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
ESC-01	Υ	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
ESC-01	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a
		hydraulic component must be certified by the design professional." *
ESC-01	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 per
ESC-01	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and
	-	sediment control measures and practices prior to land disturbing activities."
ESC-01	Ŷ	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented
		to control or treat the sediment source."
ESC-01	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch
		or temporary seeding."
ESC-01	Ν	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream
		of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge
		to the Impaired Stream Segment. *
ESC-01	Ν	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22
		above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
		24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum
ESC-01		at the construction site is prohibited. *
ESC-01	ΓΥ	25 Provide BMPs for the remediation of all petroleum spills and leaks.
ESC-01		26 Description of the measures that will be installed during the construction process to control pollutants in storm water that
		will occur after construction operations have been completed. *
ESC-01	Y	27 Description of practices to provide cover for building materials and building products on site. *
ESC-01	Υ	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
ESC-01	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of
		the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility
		activities, temporary and final stabilization).
ESC-04	Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
ESC-04	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
ESC-04	Υ	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
ESC-04		33 Description of analytical methods to be used to collect and analyze the samples from each location. *
ESC-04	N/A	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
ESC-04		35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is
200 03		discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
ESC-05 to ESC-13	γ	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial
		sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final
		BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single.
		intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
ESC-05 to ESC-13		37 Graphic scale and North arrow.
ESC-05 to ESC-13		37 Graphic scale and North arrow. 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
U_ U_ LJU-13	┛┖──┘┛	Existing Contours USGS 1": 2000' Topographical Sheets
		Proposed Contours 1" : 400' Centerline Profile

JTION CONTROL PLAN CHECKLIST TRUCTION PROJECTS

	Ν
C-05 to ESC-13	Y
C-05 to ESC-13	Y
ESC-01	Y
ESC-03	
ESC-01	Y
C-10 & ESC-13	Y
C-05 to ESC-13	Y
C-05 to ESC-13	Y
ESC-03	Y

C-05 to ESC-13	Y
C-15 & ESC-16	Y
ESC-14	Y

- N 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
 N 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
 Y 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
 Y 42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
 - 43 Delineation and acreage of contributing drainage basins on the project site.
 - 44 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
 - 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
 - 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
 - 47 Soil series for the project site and their delineation.
 - 48 The limits of disturbance for each phase of construction.
 - 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface, unless infeasible. If outlet of in the Plan.
 LINEAR UTILITY PROJECT SEE SHEET ESC-03 FOR SEDIMENT STORAGE VOLUME CALCULATIONS.
 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
 - 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
 - 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.
 - * If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2024

- 1. I CERTIFY UNDER PENALTY OF LA THE LOCATION DESCRIBED HERE-SUPERVISION.
- 2. I CERTIFY UNDER PENALTY OF LA PREPARED UNDER MY DIRECTION ASSURE THAT CERTIFIED PERSONI SUBMITTED. BASED ON MY INQUI OR THOSE PERSONS DIRECTLY RE INFORMATION SUBMITTED IS, TO T ACCURATE, AND COMPLETE. I AM SUBMITTING FALSE INFORMATION, KNOWING VIOLATIONS."
- 3. I CERTIFY THAT THE PERMITTEE'S PROVIDES FOR AN APPROPRIATE PRACTICES REQUIRED BY THE GEO "MANUAL FOR EROSION AND SEDI GEORGIA SOIL AND WATER CONSE WHICH THE LAND-DISTURBING AC RECEIVING WATER(S) OR THE SAM DESIGNED SYSTEM OF BEST MANA MEET THE REQUIREMENTS CONTAI
- 4. I CERTIFY THAT THE PERMITTEE'S PROVIDES FOR THE MONITORING OTHER WATER BODIES SHOWN ON PERENNIAL AND INTERMITTENT ST SPECIFIC IDENTIFIED PERENNIAL (PROPOSED TO BE SAMPLED, I HA FACTORS REQUIRED IN THE GENE THE TURBIDITY OF EACH SPECIFIC REPRESENTATIVE OF THE INCREA RECEIVING WATER.
- 5. THE DESIGN PROFESSIONAL WHO OF THE INITIAL SEDIMENT STORAG BASINS WITHIN 7 DAYS AFTER INT



TAYLOR TITTLE, P.E. GSWCC LEVEL II CERTIFICATION N

DESIGN PROFESSIC

DATE OF INSPECTION

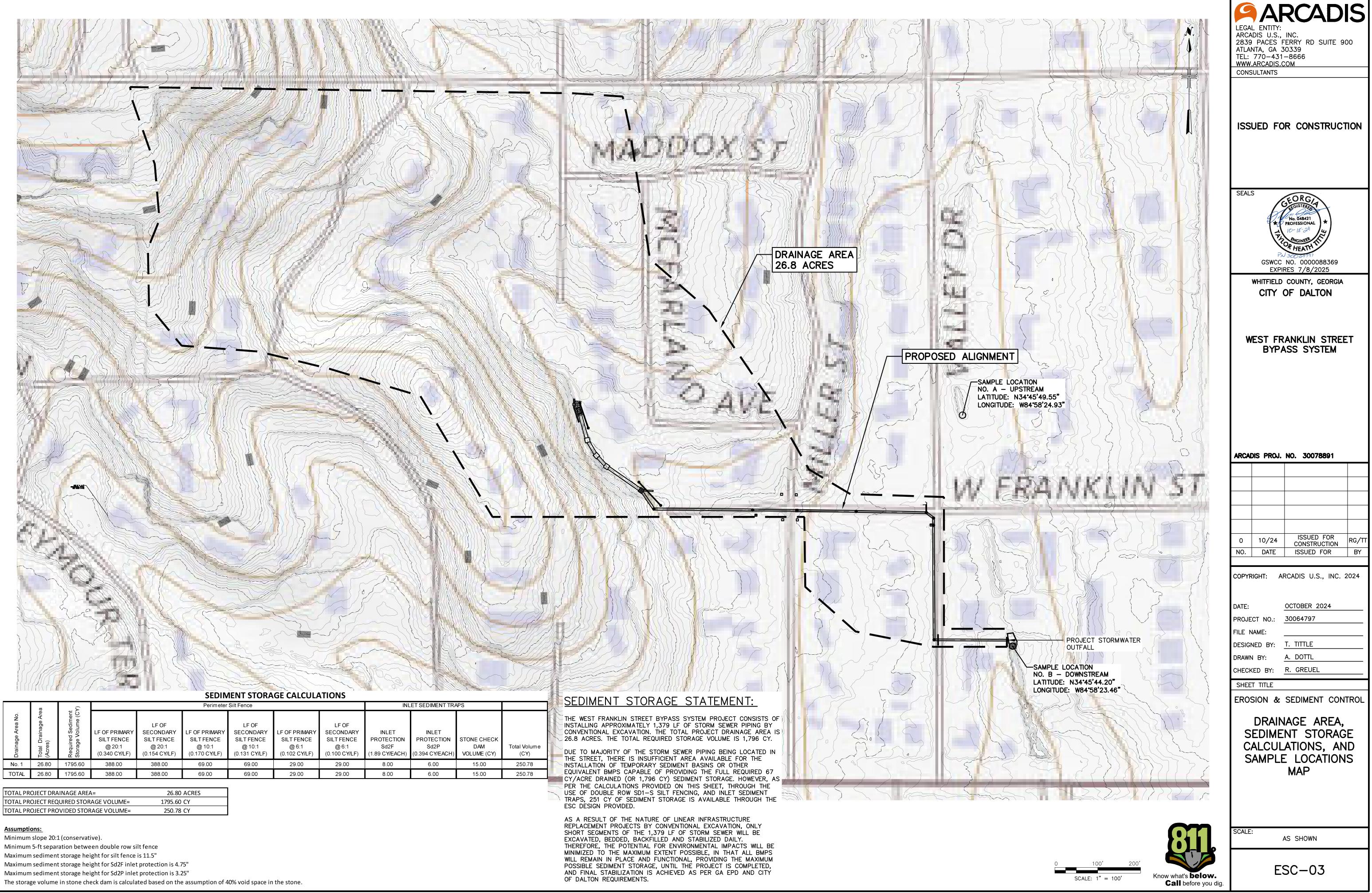
I CERTIFY THE SITE WAS IN COM

TAYLOR TITTLE, P.E.

INSPECTION REVEALED THE FOLL

THE PERMITTEE MUST CORRECT OF THE INSPECTION REPORT FRO CONDITIONS ARE SUCH THAT AD

AW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO -IN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY DIRECT	LEGAL ENTITY:
AW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO INEL PROPERLY GATHER AND EVALUATE THE INFORMATION JIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, ESPONSIBLE FOR GATHERING THE INFORMATION, THE THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, A AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR	ARCADIS U.S., INC. 2839 PACES FERRY RD SUITE 900 ATLANTA, GA 30339 TEL: 770-431-8666 WWW.ARCADIS.COM CONSULTANTS
S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT EORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT DIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE ERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN CTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE MPLING OF THE STORM WATER OUTFALLS AND THAT THE IAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO NINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.	ISSUED FOR CONSTRUCTION
S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND N THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED TEAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT AVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE ERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN C IDENTIFIED SAMPLED RECEIVING WATER WILL BE ASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED	SEALS
PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION GE REQUIREMENTS, PERIMETER CONTROL BMPS, AND SEDIMENT ISTALLATION.	PN 30074797 GSWCC NO. 0000088369 EXPIRES 7/8/2025
10/18/24 DATE	WHITFIELD COUNTY, GEORGIA CITY OF DALTON
NO. 0000088369	WEST FRANKLIN STREET BYPASS SYSTEM
NAL 7-DAY VISIT CERTIFICATION:	ARCADIS PROJ. NO. 30078891
MPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.	
GSWCC LEVEL II CERTIFICATION NO. 0000088369	
LOWING DISCREPANCIES FROM THE ES&PC PLAN:	0 10/24 ISSUED FOR RG/TT
	0 10/24 ISSUED FOR CONSTRUCTION RG/TT NO. DATE ISSUED FOR BY
ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT COM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE DDITIONAL TIME IS REQUIRED.	COPYRIGHT: ARCADIS U.S., INC. 2024
	DATE: OCTOBER 2024 PROJECT NO.: 30064797 FILE NAME: DESIGNED BY: T. TITTLE
	DRAWN BY: <u>A. DOTTL</u> CHECKED BY: <u>R. GREUEL</u>
	SHEET TITLE EROSION & SEDIMENT CONTROL
	EROSION & SEDIMENT CONTROL
	CONTROL CHECKLIST
	SCALE: AS SHOWN
Know what's below. Call before you dig.	ESC-02



	Ø	S			Perimeter Silt Fence					INLET SEDIMENT TRAPS						
Drainade Area No	ainage	Required Sediment Storage Volume (CY)	LF OF PRIMARY SILT FENCE @ 20:1 (0.340 CY/LF)	LF OF SECONDARY SILT FENCE @ 20:1 (0.154 CY/LF)	LF OF PRIMARY SILT FENCE @ 10:1 (0.170 CY/LF)	LF OF SECONDARY SILT FENCE @ 10:1 (0.131 CY/LF)	LF OF PRIMARY SILT FENCE @ 6:1 (0.102 CY/LF)	LF OF SECONDARY SILT FENCE @ 6:1 (0.100 CY/LF)	INLET PROTECTION Sd2F (1.89 CY/EACH)	INLET PROTECTION Sd2P (0.394 CY/EACH)	STONE D/ VOLUM					
No	. 1 26.80	1795.60	388.00	388.00	69.00	69.00	29.00	29.00	8.00	6.00	15					
TO	TAL 26.80	1795.60	388.00	388.00	69.00	69.00	29.00	29.00	8.00	6.00	15					

TOTAL PROJECT DRAINAGE AREA=	26.80 ACRES
TOTAL PROJECT REQUIRED STORAGE VOLUME=	1795.60 CY
TOTAL PROJECT PROVIDED STORAGE VOLUME=	250.78 CY

INSPECTIONS

- EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE. CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT:
- A. ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND
- B. ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT 2 MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY. NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS:
- A. DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE;
- B. AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND C. STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. CERTIFIED PERSONNEL SHALL ALSO CONDUCT INSPECTIONS WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH A STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST). POST-RAIN INSPECTIONS WILL RESET THE 14-DAY INSPECTION FREQUENCY REQUIREMENT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION. THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E. INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSIÓN, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.
- INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR.10000-(1, 2, OR 3)

RETENTION OF RECORDS

- THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
- A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD; B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT
- C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION
- CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY
- THIS PERMIT; E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
- F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
- G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2) OF THIS PERMIT.
- 2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS. SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION), OR OTHER REPORTS REQUESTED BY THE EPD. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

SAMPLING

SAMPLE TYPE:

ANALYTICAL METHODS-SAMPLING POINTS:

- 3.
- STORMWATER CHANNEL. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- 8.
- APPLICABLE.

SAMPLING FREQUENCY:

- MINUTES OR AS SOON AS POSSIBLE.

3.D. OR (3.C) ABOVE: AND 3.E.

REPORTING:

DAY OR WEEK.

2.B. 2.C. 2.D. 2.E. 2.F. 2.G. 2.H. 2.1.

1. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED), THE GUIDANCE DOCUMENT TITLED 'NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE. 2. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).

CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL

THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER. OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES. FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE.

ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.4 OR III.D.5., WHICHEVER IS

THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45)

HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.

3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

3.A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;

IN ADDITION TO (3.A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;

AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (3.A) AND (3.B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED. INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED. OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

WHERE SAMPLING PURSUANT TO (3.A), (3.B) OR (3.C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE). THE PERMITTEE. IN ACCORDANCE WITH PART IV.D.4.A.(6). MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (3.A), (3.B)

EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (3.A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (3.B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (3.B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (3.C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (3.A) AND (3.B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE

THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

2.A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS; THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS; THE DATE(S) ANALYSES WERE PERFORMED;

THE TIME(S) ANALYSES WERE INITIATED;

THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;

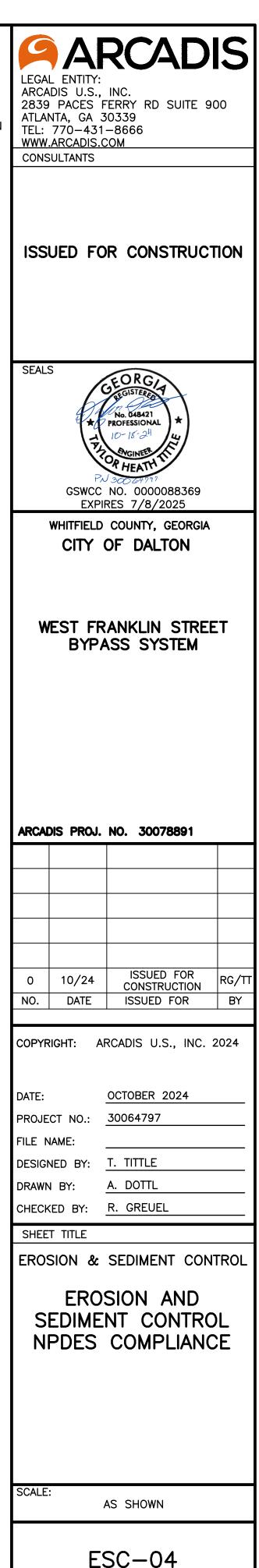
REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;

RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

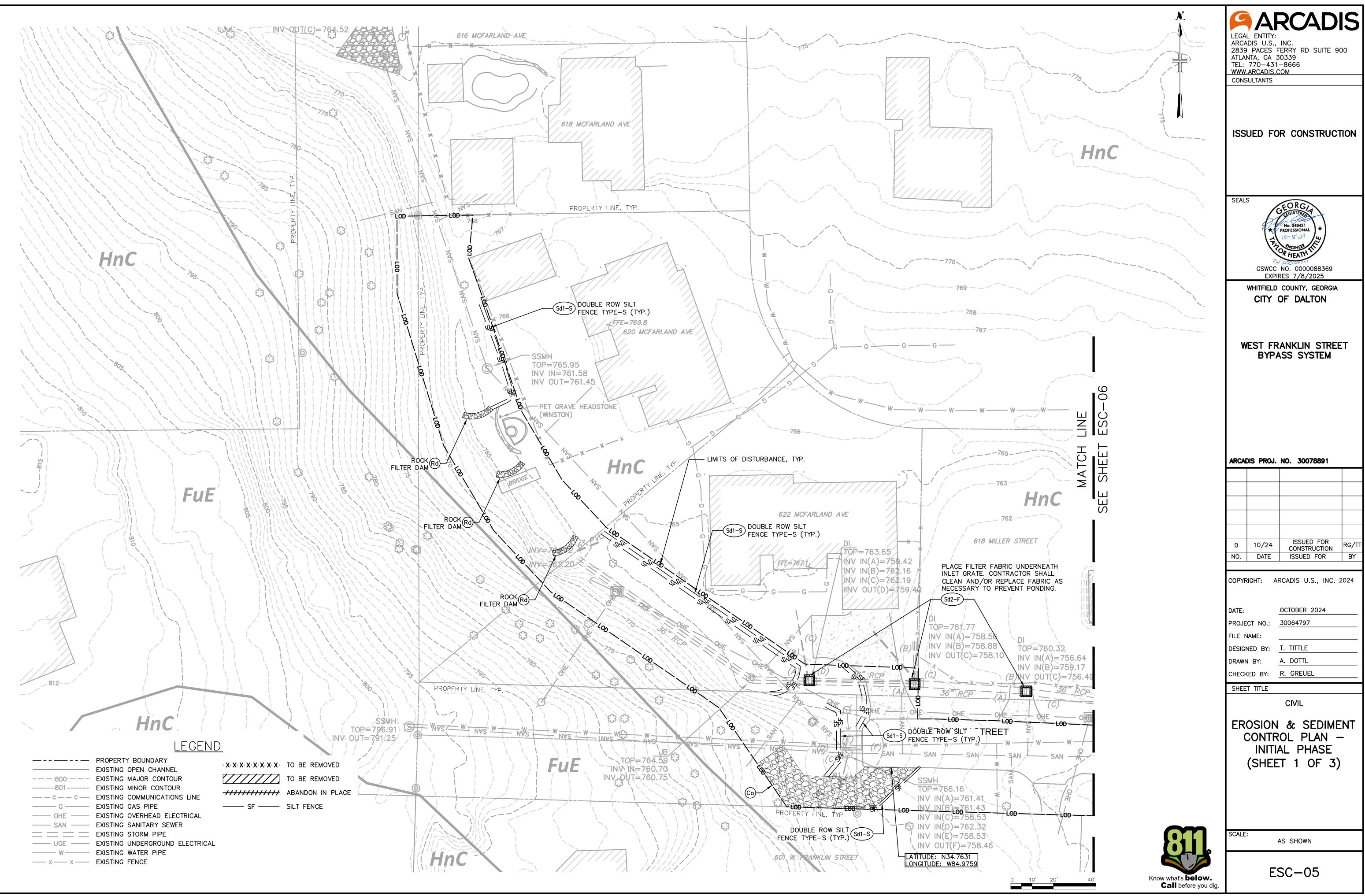
3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE EPD DISTRICT OFFICE OR DELIVERY RECEIPT MAIL TO THE APPROPRIATE EPD DISTRICT OFFICE RESOURCE MAILBOX ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

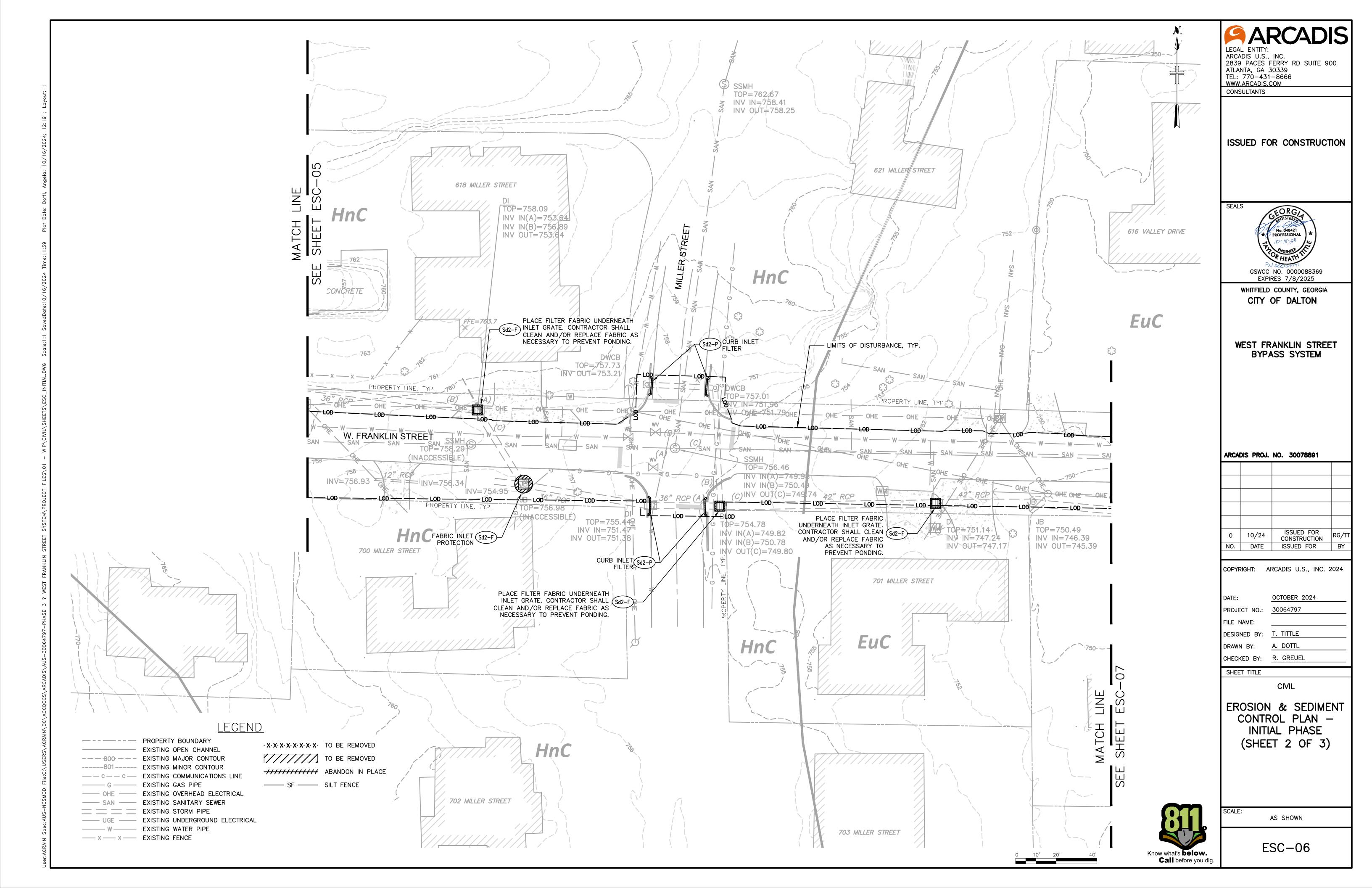
NTU VALUE FOR SAMPLING POINTS:

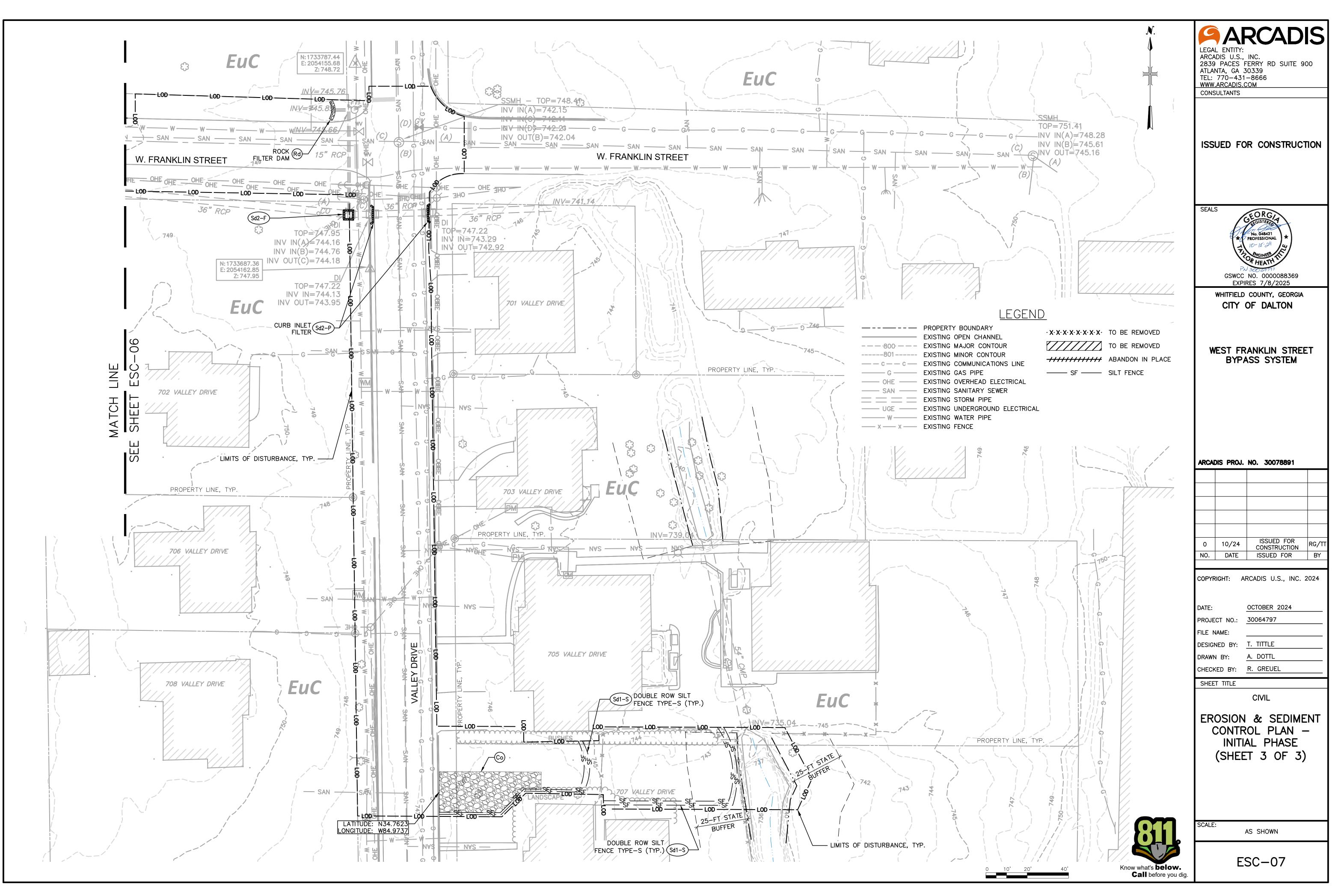
RECEIVING WATER/STREAM SAMPLING: STORMWATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) IN THE RECEIVING WATERS AS INDICATED ON THE PLAN. A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF THE RECEIVING WATERS BEING INCREASED BY MORE THAN TWENTY-FIVE (25) NTU FOR A WARM WATER STREAM. THE SAMPLING LOCATIONS ARE SHOWN ON THE PLAN.

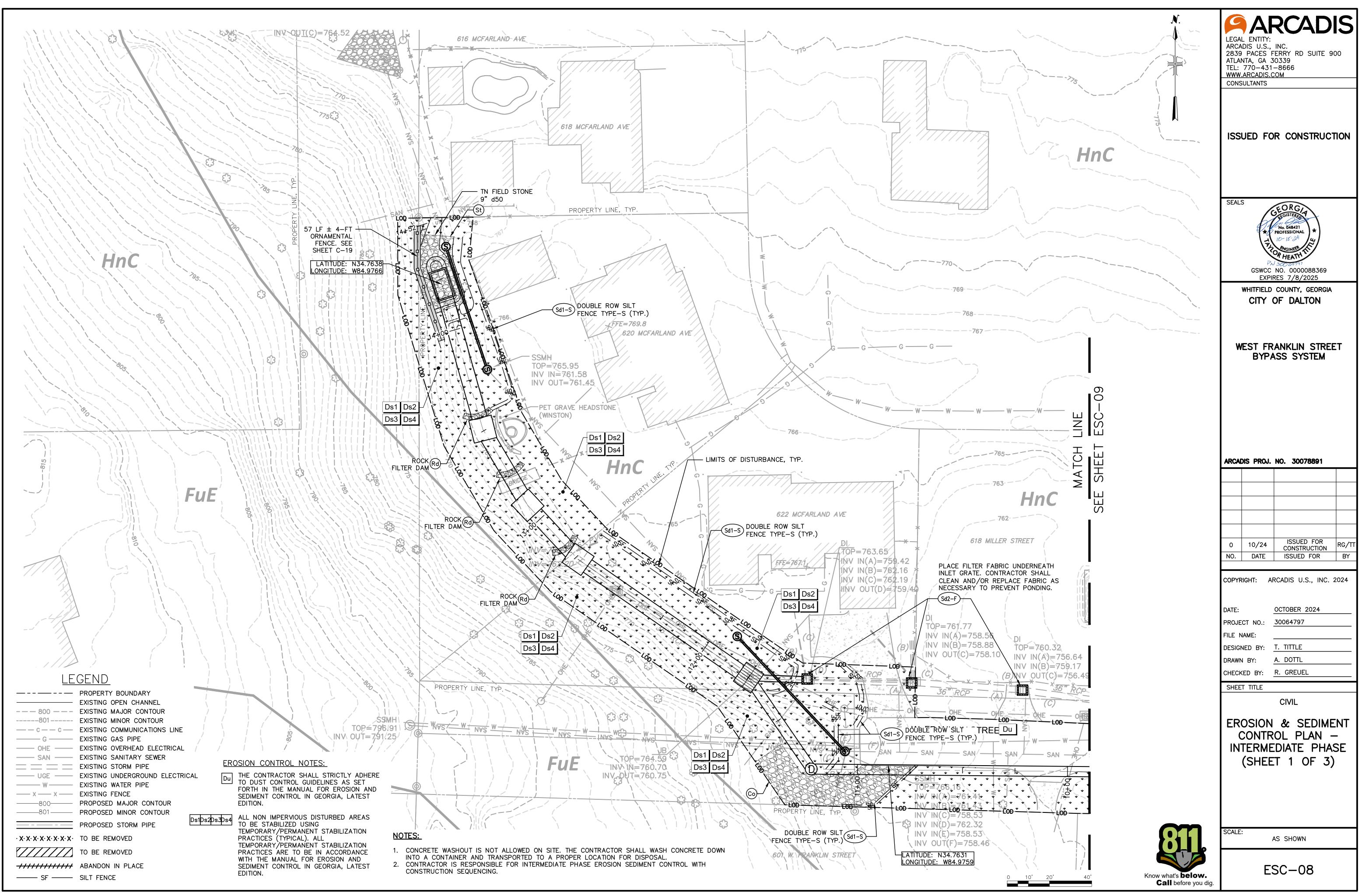


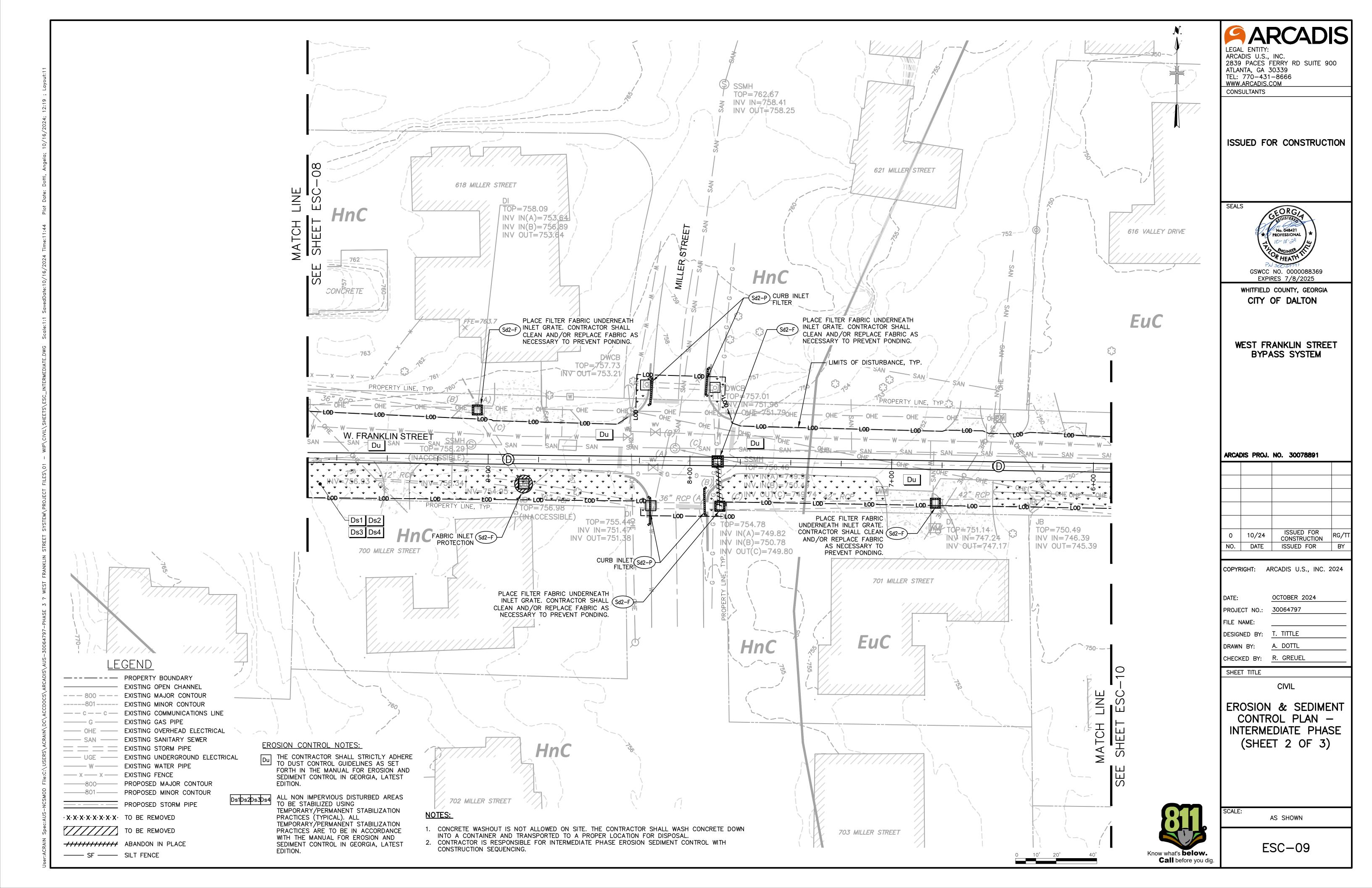


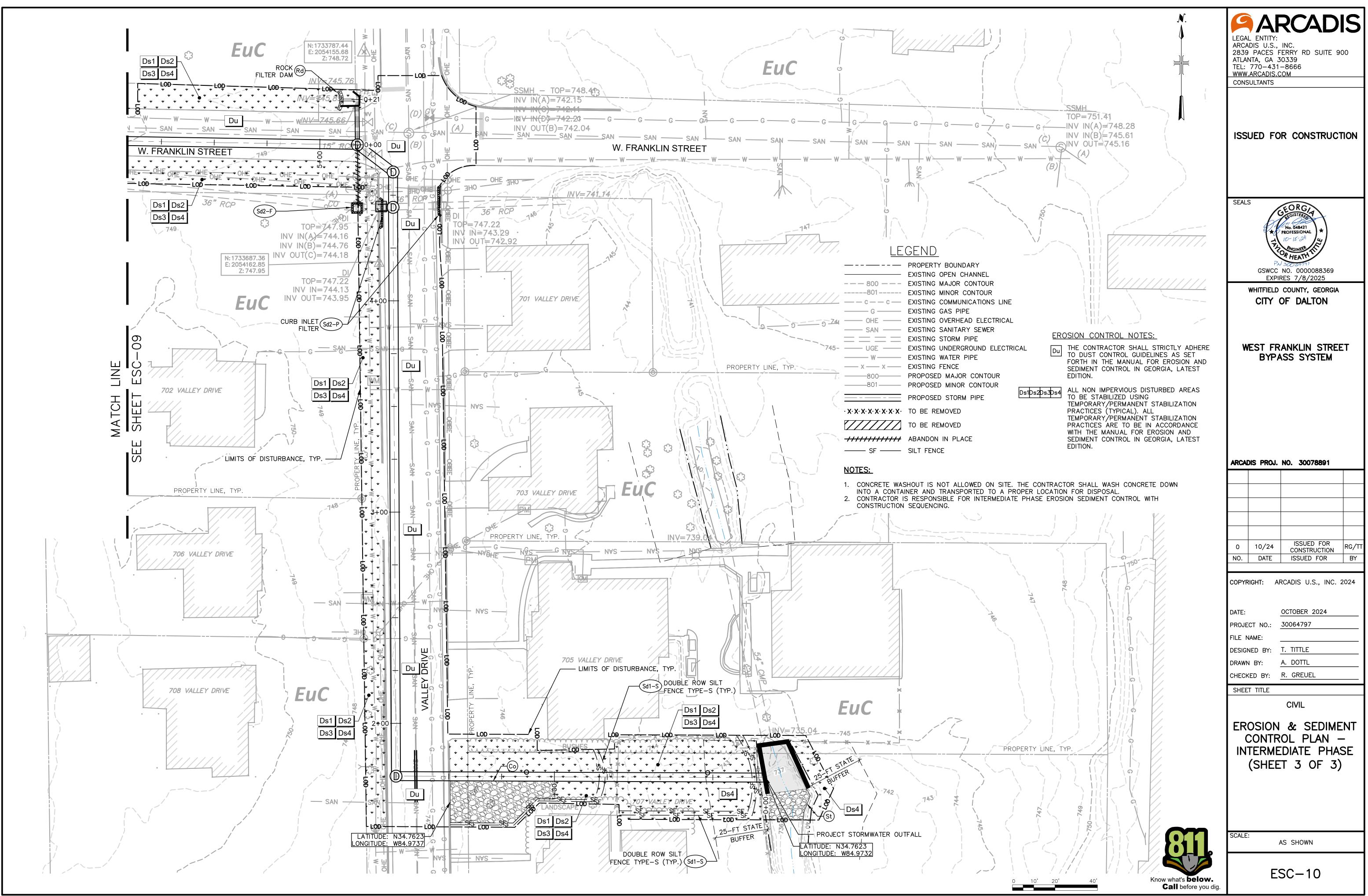


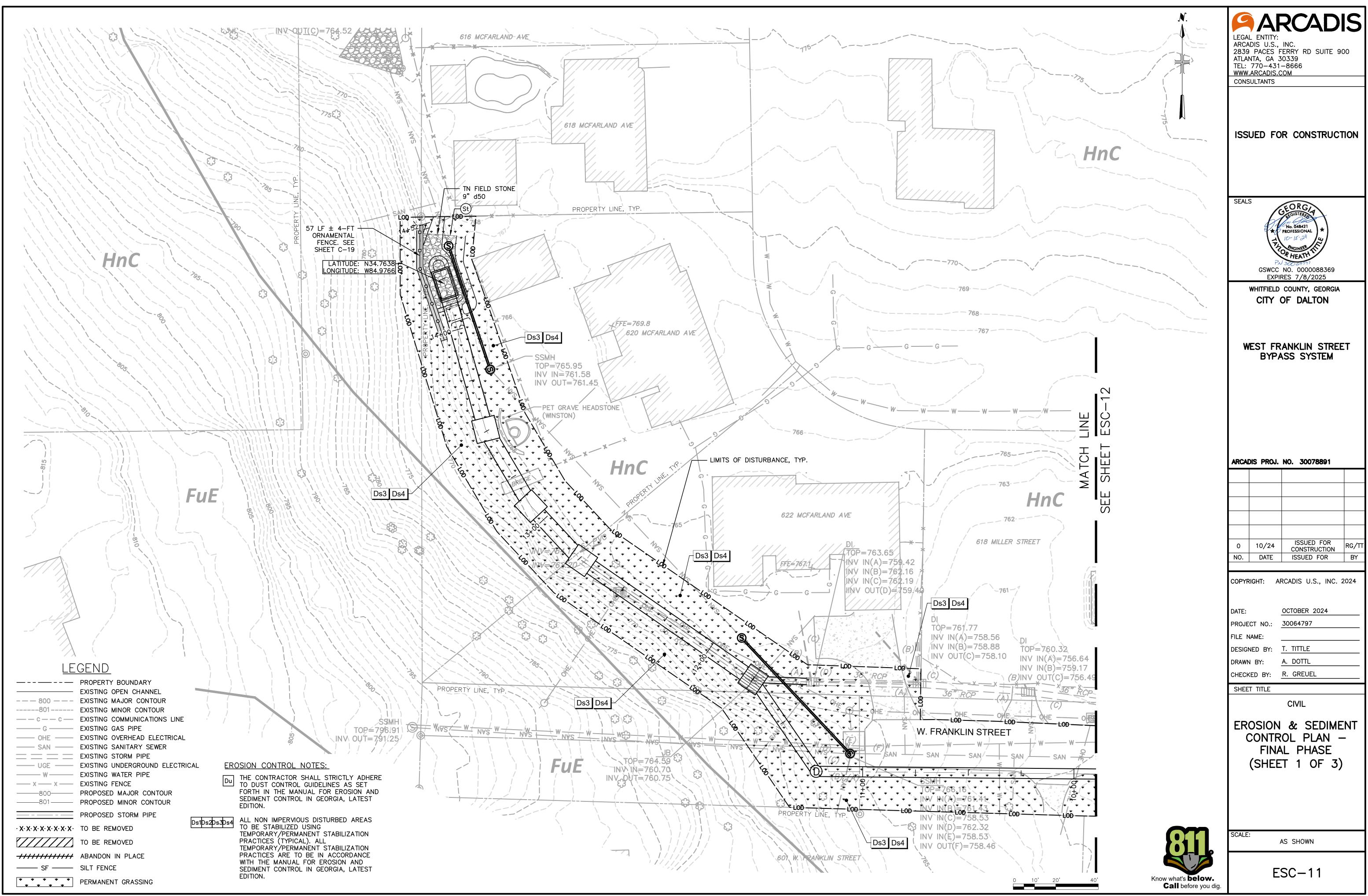


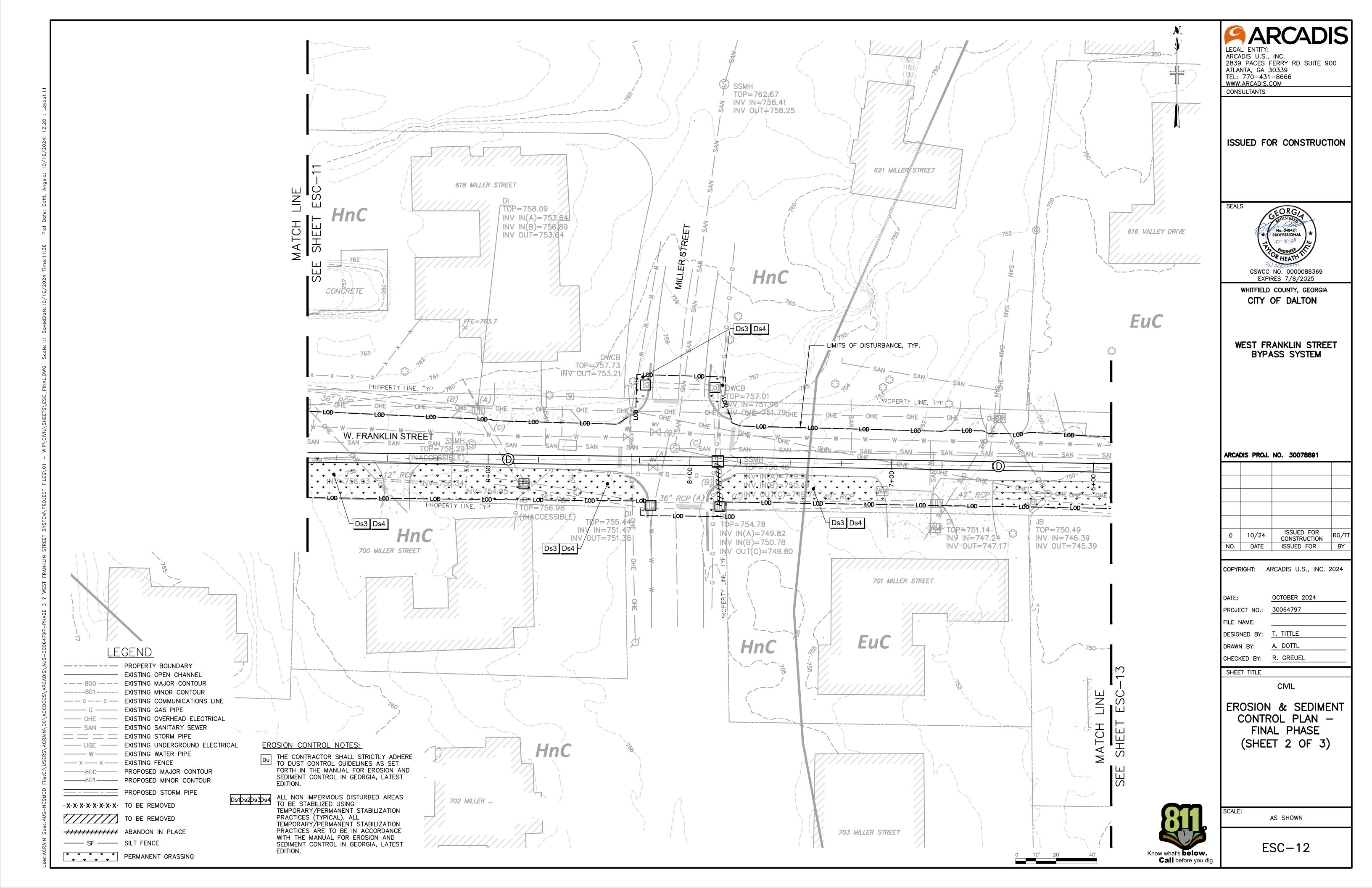


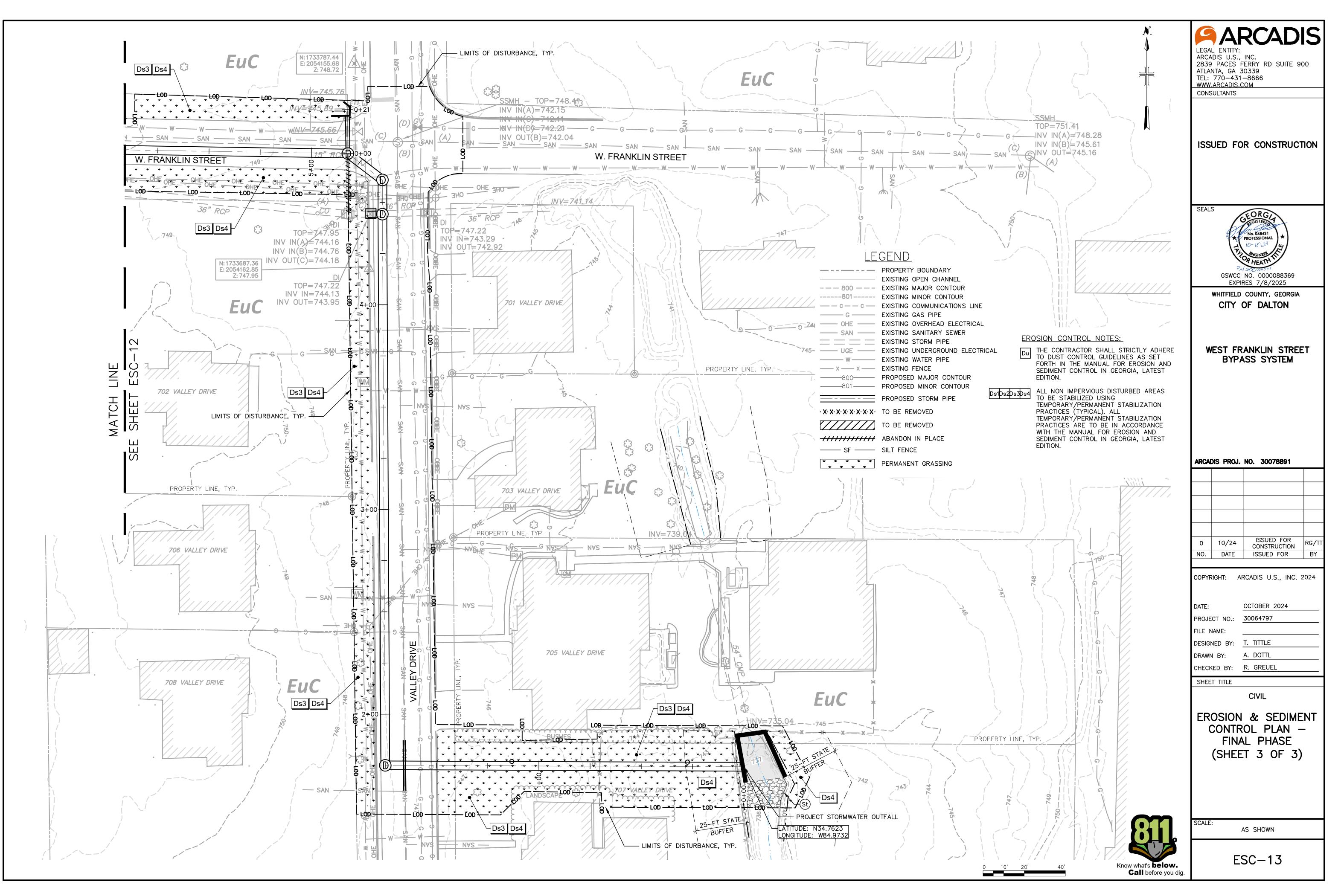












SEEDING SCHEDULE TEMPORARY COVER

SPECIES	Broadcast <u>Rates — Pls</u> Per <u>Acre</u>	BROADCAST <u>RATES — PLS</u> PER 1000 <u>SQ. FT.</u>	RESOURCE AREA^3	(S D/	RATES - PLS RATES - PLS APEA^3 DATES, DOTTED LINES INDI										5.)
				J	F	M	A	Μ	J	J	A	S	0	N	D
BARLEY (HORDEUM VULGARE)			M-L												
ALONE	3 BU. (144 LBS.)	3.3 LB.	Р												
IN MIXTURES	½ BU. (24 LBS.)	0.6 LB.	С	J	F	M	A	M	J	J	A	s S	0	N	C
LESPEDEZA, ANNUAL (LEZPEDEZA STRIATA)			M-L		a a a		i mi mi p								
ALONE	40 LBS.	0.9 LB.	Ρ				i pel pel p								
IN MIXTURES	10 LBS.	0.2 LB.	С	¥∎∎ J		∎∎ M	A	м	J	J	A	S	0	N	
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)			M-L				-								
ALONE	4 LBS.	0.1 LB.	Р			-			t at pi						
IN MIXTURES	2 LBS.	0.05 LB.	С	J	۲m F		Α	М	n na na L	L.	Δ	S	0	N	
MILLET, BROWNTOP (PANCIUM FASCICULATUM)			M-L				(11)111	m				5	Ū		
ALONE	40 LBS.	0.9 LB.	Р				تقر ار ا			m					
IN MIXTURES	10 LBS.	0.2 LB.	С		F	M		м	.1		Δ	5	0	N	
MILLET, PEARL			M-L			141	<u> </u>					5			
(PENNESETUM GLAUCUM)	50 LBS.	1.1 LB.	Р												
ALONE	30 653.	1.1 LD.	С	J	F	M	A	М	J	J	A	S	0	N	0
OATS (AVENA SATIVA)			M-L												
ALONE	4 BU. (128 LBS.)	2.9 LB.	Р												
IN MIXTURES	1 BU. (32 LBS.)	0.7 LB.	С	J	F	M	A	М	J	J	A	S	0	N	D
RYE (SECALE CEREALE)			M-L								al pi pi				
ALONE	3 BU. (168 LBS.)	3.9 LB.	Р								##				1
IN MIXTURES	½ BU. (28 LBS.)	0.6 LB.	С		F	M	Δ	м	.	.1	Δ	*	0	N	
TRITICALE (X-TRITICOSECALE)							<u> </u>	m		Ū		5	Ū		
ALONE	3 BU. (144 LBS.)	3.3 LB.	С	a m m (1
IN MIXTURES	½ BU. (24 LBS.)	0.6 LB.		J	F	M	Δ	M	.1		Δ	S	0	N	
RYEGRASS, ANNUAL			M-L		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							-	Ŭ		1111
(LOLIUM TEMULENTUM)	40 LBS.	0.9 LB.	Р				H H				***				-
ALONE	40 LB3.	0.9 LD.	С	J	F	М	A	М	J	J			0	N	C
SUDANGRASS (SORGHUM SUDANESE)			M-L P												
ALONE	60 LBS.	1.4 LB.	С		F	M N	Δ	M	.1	.1	Δ	S	0	N	Г
WHEAT (TRITICUM AESTIVUM)			M-L				<u></u>	(71		J					
ALONE	3 BU. (180 LBS.)	4.1 LB.	Р										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
IN MIXTURES	½ BU. (30 LBS.)	0.7 LB.	С												

FERTILIZER REQUIREMENTS PERMANENT COVER

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
	FIRST	6-12-12	1500 lbs./AC.	50-100 lbs./AC. 1/2/
1. COOL SEASON GRASSES	SECOND	6-12-12	1000 lbs./AC.	
	MAINTENANCE	10-10-10	400 lbs./AC.	30 lbs./AC.
2. COOL SEASON	FIRST	6-12-12	1500 lbs./AC.	0-50 lbs./AC. 1/
GRASSES	SECOND	10-10-10	1000 lbs./AC.	
& LEGUMES	MAINTENANCE	10-10-10	400 lbs./AC.	
3. GROUND	FIRST	10-10-10	1300 lbs./AC. 3/	
COVERS	SECOND	10-10-10	1300 lbs./AC. 3/	
	MAINTENANCE	10-10-10	1100 lbs./AC.	
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	
5. SHRU	FIRST	0-10-10	700 lbs./AC.	
LESPEDEZA	MAINTENANCE	0-10-10	700 lbs./AC. 4/	
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 lbs./AC.	30 lbs./AC. 5/
	FIRST	6-12-12	1500 lbs./AC.	50-100 lbs./AC. 2/6/
7. WARM SEASON GRASSES	SECOND	6-12-12	800 lbs./AC.	50-100 lbs./AC. 2/
	MAINTENANCE	10-10-10	400 lbs./AC.	30 lbs./AC.
8. WARM SEASON	FIRST	6-12-12	1500 lbs./AC.	50 lbs./AC. 6/
GRASSES & LEGUMES	SECOND	0-10-10	1000 lbs./AC.	
	MAINTENANCE	0-10-10	400 lbs./AC.	

LIME: APPLY AT A RATE OF ONE TON PER ACRE

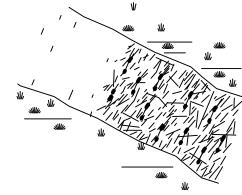
1/ APPLY IN SPRING FOLLOWING SEEDING.

2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.

3/ APPLY IN 3 SPLIT APPLICATIONS.

4/ APPLY WHEN PLANTS ARE PRUNED. 5/ APPLY TO GRASS SPECIES ONLY.

6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.



ESTABLISHING A TEMPORARY PROTECTION FOR DISTURBED AREAS USING SPECIFIC MULCH MATERIALS.

- 1. MULCH MATERIALS SHALL CONSIST OF DRY STRAW OR HAY AT 2.5 TONS PER ACRE, WOOD CHIPS AT 6 TO 9 TONS PER ACRE, EROSION CONTROL MATTING OR NETTING, OR POLYETHYLENE FILM.
- 2. THIS STANDARD APPLIED TO GRADES OR CLEARED AREAS WHICH MAY BE SUBJECTED TO EROSION CONTROL FOR 6 MONTHS OR LESS, AND CAN BE STABILIZED WITH A MULCH COVER.

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ESTABLISHING A PERMANENT VEGETATIVE COVER AS A DISTURBED AREA.

- 1. APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIMES CALLED "CRITICAL AREAS" INCLUDING:
- CUT OR FILL SLOPES - EARTH SPILLWAYS
- BORROW AREAS
- CHANNEL BANKS - BERMS
- ROADSIDES
- SPOIL AREAS
- GULLIED LANDS

2. GRADING AND SHAPING REQ'D.

- WHERE FEASIBLE AND PRACTICAL. 3. SEEDBED PREPARATION (NOT REQ'D. IF USING HYDRAULIC SEEDING AND FERTILIZING)
 - SLOPE SEEDBED
 - 3:1 OR FLATTER > 4" DEEP
 - 2:1 TO 3:1 1" TO 4" DEEP 2:1 OR STEEPER DEPRESSIONS EVERY
 - 6"-8" WITH HAND TOOL

4. HAVE SOIL ANALYZED FOR LIME AND FERTILIZER RATE. 5. MULCH ALL SLOPES STEEPER THAN 3% AND IN BOTTOM

- OF SPILLWAYS AND ON ROADBANKS.
- 6. ANCHOR MULCH IMMEDIATELY.



FERTILIZER: APPLY 500-700 POUNDS OF 10-10-10 OR EQUIVALENT PER ACRE

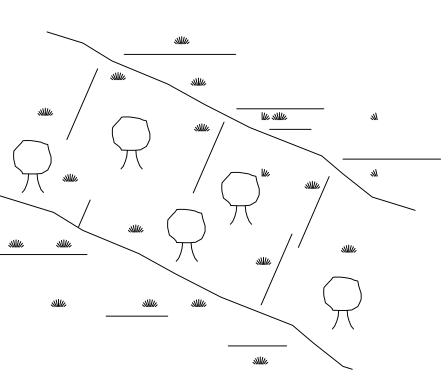
SEEDING SCHEDULE PERMANENT COVER

<u>SPECIES</u>	BROADCAST <u>RATES - PLS</u> PER <u>ACRE</u>	BROADCAST <u>RATES - PLS</u> PER 1000 <u>SQ. FT.</u>	RESOURCE AREA^3	PLANTING DATES (SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATED PERMISSIBLE BUT MARGINAL DATES.) J F M A M J J A S O N D											
BERMUDA, SPRIGS (CYNODON DACTYLON) COASTAL COMMON OR TIFT 44	40 CU. FT. OR SOD PLUGS 3'X3'	0.9 CU. FT.	M-L P C					M		• 3 • 3	()M ()M ()M				
BERMUDA, COMMON (CYNODON DACTYLON) ALONE	10 LBS. 6 LBS.	0.2 LB. 0.1 LB.						I NH	ни	LE	DS				
W/ OTHER PERRENIALS FESCUE, TALL (FESTUCA ARUNDINACEA) ALONE		1.1 LB.	M-L	J	F	M	A	М	J		A		0		D
W/OTHER PERRENIALS	50 LBS. 30 LBS.	1.1 LB. 0.7 LB.	Р		F	м	^	M							-
CROWNVTECH (CORONILLA VARIA) W/WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LB.	M-L P		F						-				
REED CANARY GRASS (PHARLARIS ARUNDINACEA) ALONE W/OTHER PERRENIALS	50 LBS. 30 LBS.	1.1 LB. 0.7 LB.	M-L P		F										
CENTIPEDE (EREMOCHLOA OPHIUROIDES)	BLACK SOD ONLY		P C	J				M			A		0		D
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)			M-L	0				141							
ALONE	4 LBS.	0.1 LB.	Р		H										
W/OTHER PERRENIALS	2 LBS.	0.05 LB.	С	J	F	M	A	М	∎∎ J	J	A	S	0	N	D
LESPEDEZA, SERICEA (LESPEDEZA CUNEATA)															
SCARIFIED	60 LBS.	1.4 LB.	M-L												
UNSCARIFIED	75 LBS.	1.7 LB.	Р			Í MÍ MÍ M									
SEED-BEARING HAY	3 TONS	138 LB.	С												

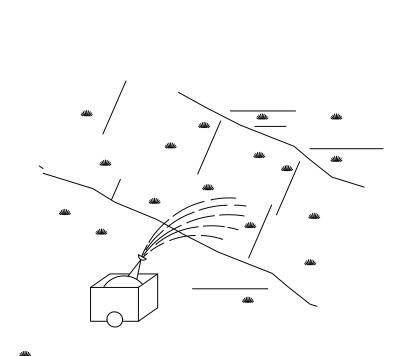
NOTI

1. YOU MAY USE ANY OTHER SPECIES IF APPROVED BY MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

ALL FERTILIZER RATE AND APPLICATION, SEED QUALITY, SEEDBED PREPERATION, INNOCULANTS, PLANTING, AND MULCHING SHALL COMPLY WITH MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.







-ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS.

- 1. < 12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATION.
- 2. SITE PREPARATION: - GRADING AND SHAPING
- SEEDBED PREPARATION

PIEDMONT OR COASTAL)

- APPLY LIME AND FERTILIZER
- PLANT SEEDINGS, SELECT SPECIES BY SEASON AND REGION - APPLY MULCHING MATERIAL IF NEEDED
- IRRIGATE IF NEEDED BUT NOT @ RATE TO CAUSE EROSION 3. PLANTING DATES DEPEND ON SPECIES AND REGION (MOUNTAIN,
- NOTES: CONTRACTOR SHALL STABILIZE ALL AREAS WITH TEMPORARY

VEGETATION THAT ARE TO BE EXPOSED WITHOUT STORM WATER PROTECTION FOR LONGER THAN 7 DAYS.

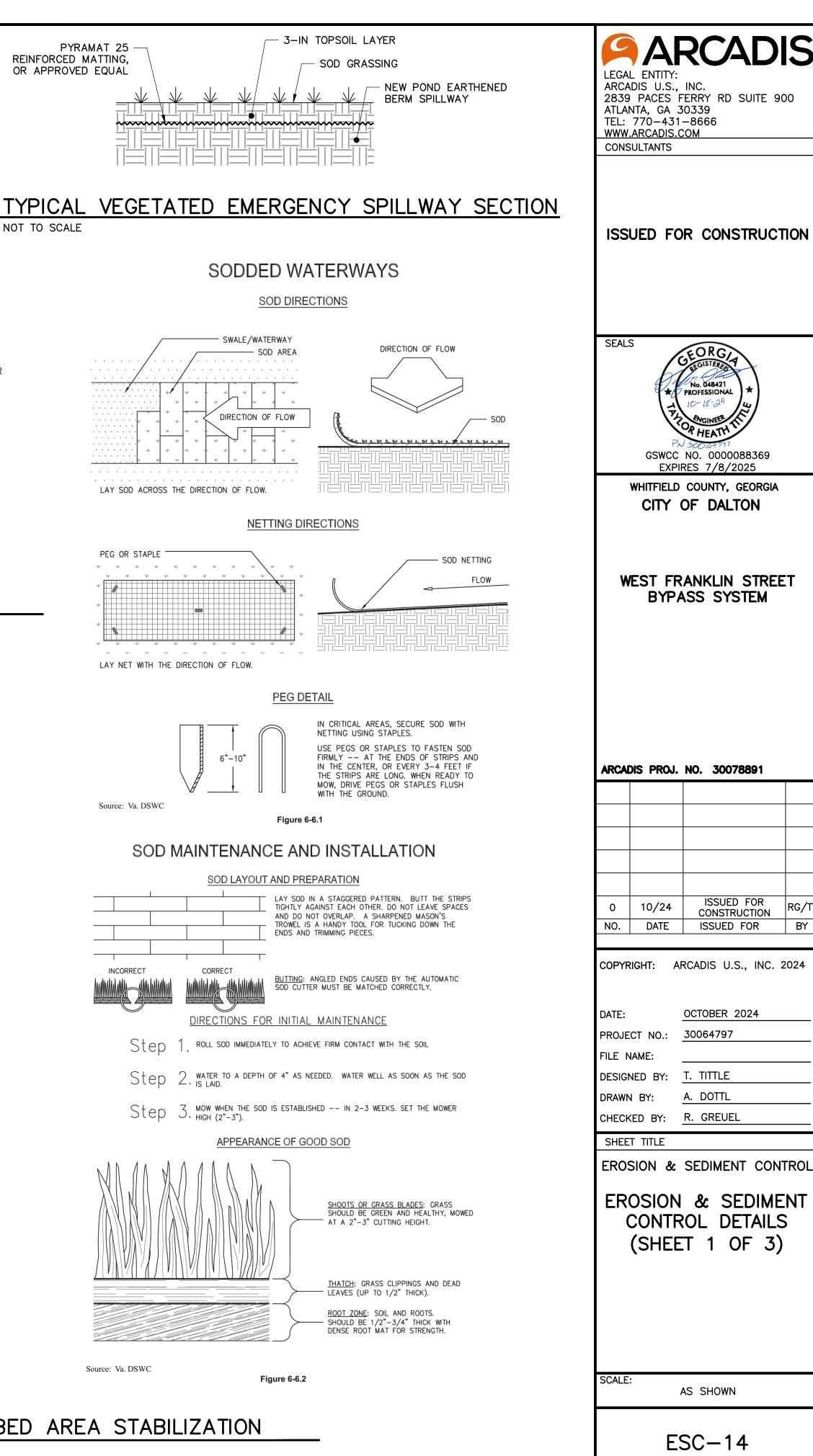
DISTURBED AREA STABILIZATION

(WITH TEMPORARY SEEDINGS)	
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Table 6-6.1. Fertilizer Requirements forSoil Surface Application															
Fertiliz Type			ertilize Rate s/acre			ertili Rat os/s	e	Ş	Season						
10-10-1	10		1000			.02	5		Fall						
Table 6-6.2 Sod Planting Requirements															
Gra	SS		Varie	etie	s		sourc Area	e	Growing Season						
Bermuda	agra	ISS	Com Tifw Tifgr Tifla	vay eer	n		L,P,C P,C P,C P,C		warm weather						
Bahiagrass			Pensacola				P,C	warm weather							
Centipede			н			P,C			warm weather						
St. Aug	St. Augustine			Common Bitterblue Raleigh			С		warm weather						
Zoys	sia		2000 C 100	Emerald Myer			P,C		warm weather						
Tall Fe	scu	9	Kenti	ÿ	M-L,P			cool weather							
	Fe	rtiliz	Tal zer Rec	ble			for Se	od	1						
Types of Species			g Year	Fe		izer	Rat (Ibs./ad	e	Nitrogen Top Dressing Rate (Ibs./acre)						
cool season grasses	eason second			6	-12	-12 -12)-10	150 100 400	0	50-100 - 30						
warm season grasses		firs secc inter	536A	6	i-12-12 1500 i-12-12 800 i-10-10 400)	50-100 50-100 30							

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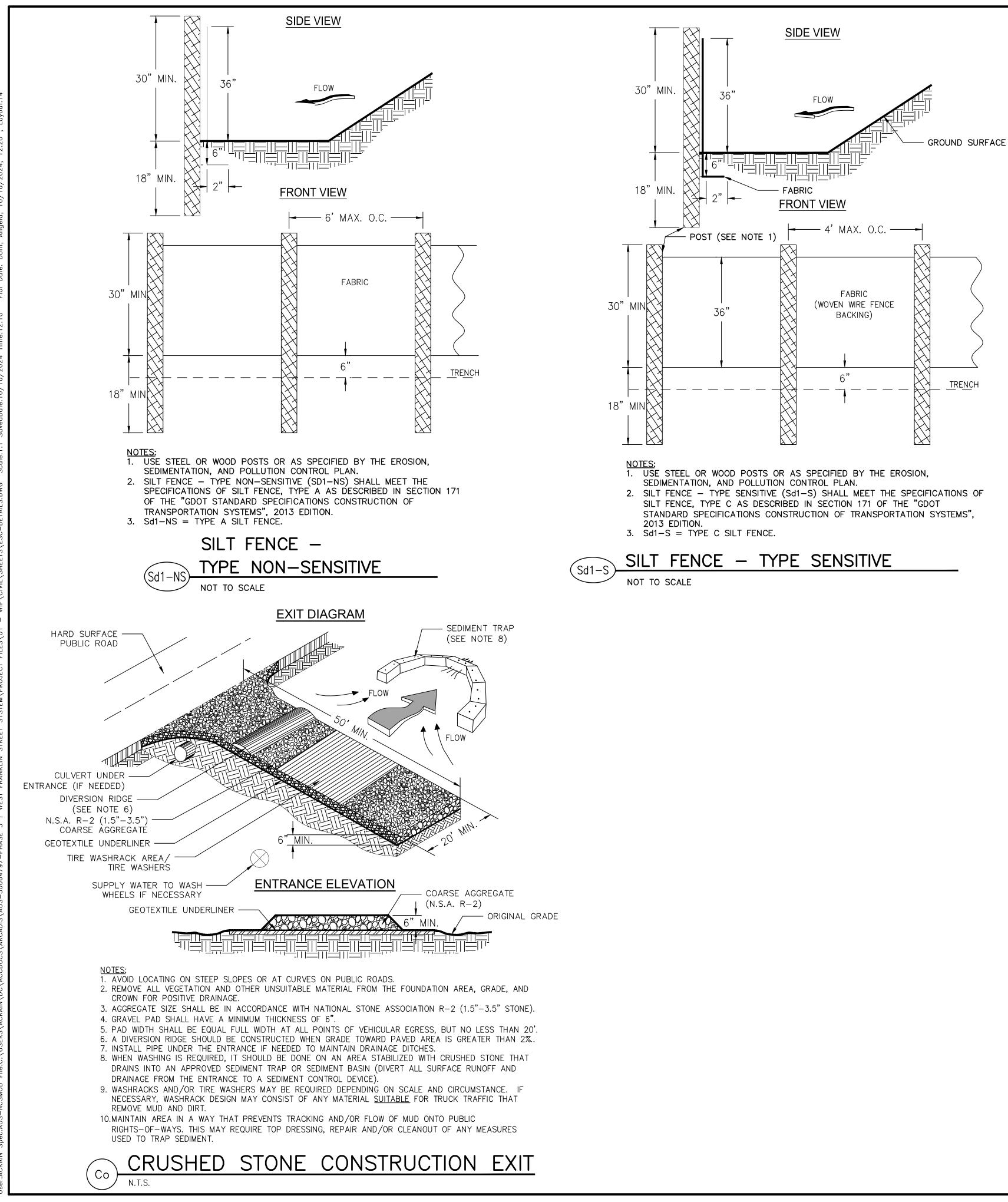
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Source: Va. DSWC

DISTURBED AREA STABILIZATION IDs4 (WITH SOD)



RIPRAP OUTLET PROTECTION



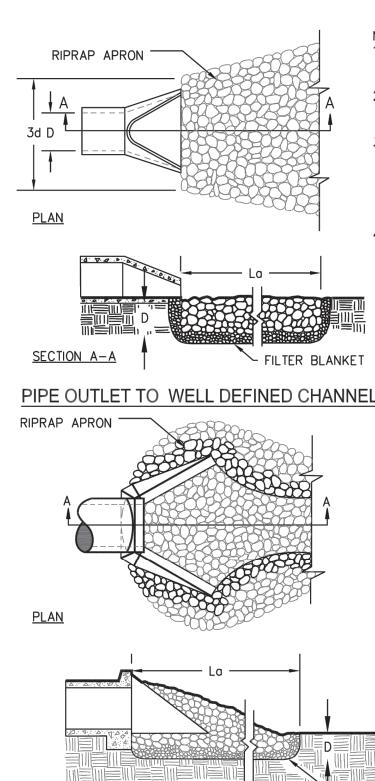


Figure 6-34.3 - Riprap Outlet Protection (Modified From Va SWCC)

	RIPRAP APRON SUMMARY CHART													
OUTLET	PIPE DIAMETER (D _o)	25–YR FLOW (CFS)	25–YR VELOCITY (FPS)	TAILWATER	RIPRAP SIZE (d50)	STONE DEPTH (D)	APRON LENGTH (L₀)	WIDTH OF APRON (W ₁)	WIDTH OF APRON (W ₂)					
HW A-1	42"	88	9.21	> 0.5D ₀	9"	1.5'	24'	10.5'	27.5'					

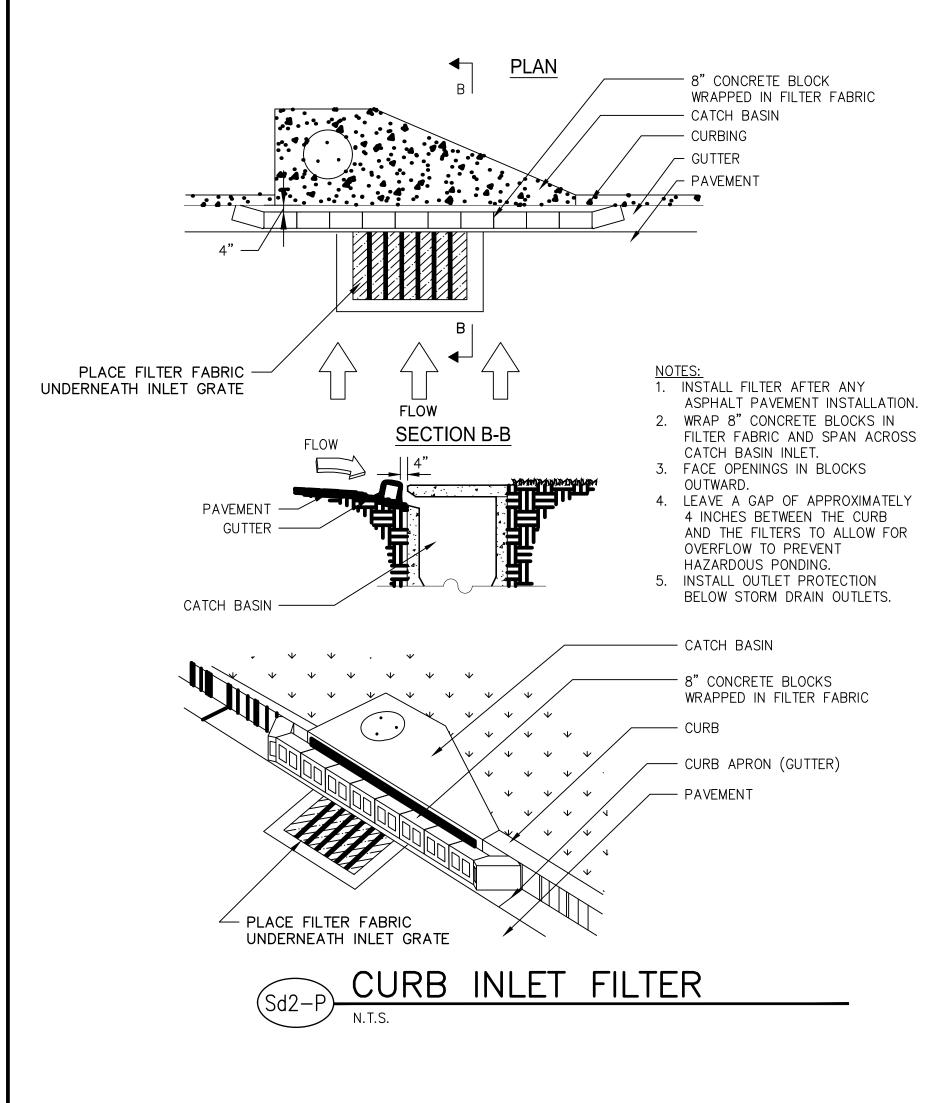


SECTION A-A

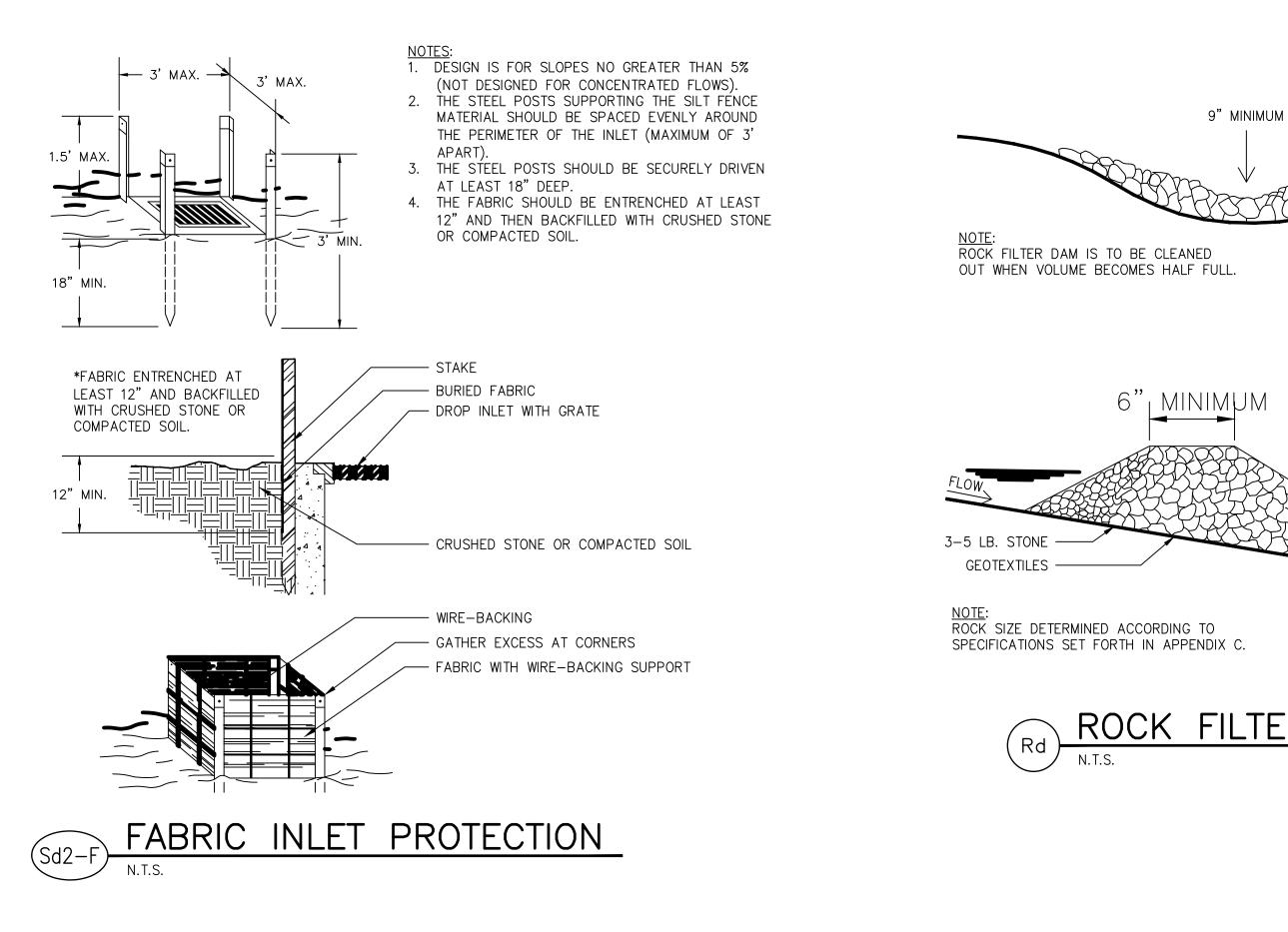
- NOTES:
- 1. Lo IS THE LENGTH OF THE RIPRAP APRON.
- 2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESSTHAN 6".
- IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
- A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.



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GENERAL

- QUALITY OF CONSTRUCTION REQUIRED. PERFORMANCE LEVELS OF WORKMANSHIP. MANUFACTURING AND INDUSTRY STANDARDS, STRENGTH, AND PHYSICAL REQUIREMENTS OF MATERIALS, CONFORMANCE TO CODES AND REGULATIONS, GUARANTEES AND OTHER PROJECT REQUIREMENTS ARE SPECIFIED IN THE CONTRACT DOCUMENTS.
- IF MATERIALS AND QUANTITIES, STRENGTHS, OR SIZES INDICATED BY THE DRAWINGS ARE NOT IN THE AGREEMENT WITH THESE NOTES. THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED. SPECIFIED OR NOTED SHALL BE PROVIDED.
- PERFORM ALL WORK IN COORDINATION WITH ALL DRAWINGS AND INFORMATION RELATED TO STRUCTURAL WORK, ANY CHANGES TO THE EQUIPMENT REQUIRING CHANGES TO THE STRUCTURAL SYSTEM SHALL BE REDESIGNED BY A PROFESSIONAL ENGINEER AT NO COST TO THE OWNER AND SUBMITTED TO THE PROJECT ENGINEER. SUBMITTAL SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONSTRUCTION.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- STRUCTURAL ITEMS HAVE BEEN DESIGNED FOR DESIGN LOADS SHOWN OR SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL ITEMS SUBJECT TO CONSTRUCTION LOADS EXCEEDING THE DESIGN LOADS AND SHALL NOTIFY THE ENGINEER OF RECORD ANY SUCH ADDITIONAL LOADS.
- ALL DIMENSIONS AND ELEVATIONS NOTED THUS (+/-) ON STRUCTURES SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AND SHALL CONFORM TO THOSE SHOWN ON OTHER DRAWINGS.
- NO STRUCTURAL MEMBERS SHALL BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER OF RECORD.
- ALL SPECIFIED CONCRETE TESTING DURING CONSTRUCTION AND ALL SPECIFIED LABORATORY TEST MIXES SHALL BE THE **RESPONSIBILITY OF THE SUBCONTRACTOR**
- ENGINEER OF RECORD FOR STRUCTURAL DESIGN WILL REVIEW AND APPROVE ALL CONSTRUCTION SUBMITTALS FOR STRUCTURAL WORK PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION OF THOSE COMPONENTS. SUBMITTALS **REQUIRED FOR THE FOLLOWING:** STRUCTURAL FILL, CONCRETE MIX DESIGN (INCLUDING ADMIXTURE DATA, GRADATION REPORTS, AND HISTORICAL PERFORMANCE DATA), REINFORCING STEEL.
- 10. VERIFY EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY ENGINEER OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH CIVIL DRAWINGS.
- 1. DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

DESIGN AND CODE INFORMATION

. ALL CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH GEORGIA AMENDMENTS AND ASCE 7-16.

2	LIVE LOADS: LIVE LOAD:	20 PSF
3	SNOW LOADS: GROUND SNOW LOAD IMPORTANCE FACTOR	Pg = 10.0 PSF ls = 1.0 PSF
4	. <u>WIND LOADS:</u> WIND ULTIMATE DESIGN SPEED: RISK CATEGORY: WIND EXPOSURE CATEGORY:	105 MPH II C
5	SEISMIC LOADS: SEISMIC IMPORTANCE FACTOR: RISK CATEGORY: SPECTRAL RESPONSE ACCELERATIONS:	1.0 II Ss = 0.495 S1 = 0.100
	DEFAULT SITE CLASS: SPECTRAL RESPONSE COEFFICIENTS:	S1 = 0.199 D SDS = 0.463
	SEISMIC DESIGN CATEGORY:	SD1 = 0.188 C

6. GEOTECHNICAL INFORMATION

FOUNDATION DESIGNS ARE BASED ON PRESUMPTIVE SOIL TYPE OF CLAY OR SILTY CLAY SOIL WITH ALLOWABLE SOIL BEARING PRESSURE = 1,500 PSF. IF DURING EXCAVATION SOIL PROPERTIES APPEAR DIFFERENT THAN PRESUMED, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.

7. LOCATION OF WORK: 705-707 VALLEY DR, DALTON, GA

BBREVIATIONS

@ AISC AISI ACI ASTM B/W CL C/L C/C CMP COL CONC CONT CRSI DIA DWG Ø EA E.W. EL. EXT. FDN FTG. F.F.E. GWB HM HORIZ HP	AT AMERICAN INSTITUTE OF STEEL CONSTRUCTION AMERICAN IRON AND STEEL INSTITUTE AMERICAN CONCRETE INSTITUTE AMERICAN SOCIETY FOR TESTING AND MATERIALS BETWEEN COLUMN CENTER LINE CENTER TO CENTER CORRUGATED METAL PIPE COLUMN CONCRETE CONCRETE CONTINUOUS CONCRETE REINFORCING STEEL INSTITUTE DIAMETER DRAWING DIAMETER EACH EACH WAY ELEVATION EXISTING EXTERIOR FOUNDATION FOOTING FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR FINISHED FLOOR AMERICAN SOCIETY FOR THE STITUTE CONCRETE C	INT. LBS LP MAX MBMA MIN O.C. O/ O/O P PPAWS PEMB PSF RCP SC SQ STD STL SST T&B TBD T/ TYP. UCWS UL UON VERT W/	INTERIOR POUNDS LOW POIN MAXIMUM METAL BU MINIMUM ON CENTE OVER OUT TO O PERIODIC PREFORM PRE-ENGII POUNDS F REINFORC SCALE SQUARE STANDARI STEEL STAINLES TOP & BO TO BE DE TOP TYPICAL UNIFIED S UNDERWF UNLESS O VERTICAL WITH
--	--	--	--

NI.	INTERIOR
BS	POUNDS
P	LOW POINT
MAX	MAXIMUM
MBMA	METAL BUILIDING MANUFACTURER'S ASSOCIATION
ЛIN	MINIMUM
D.C.	ON CENTER
D/	OVER
0/0	OUT TO OUT
C	PERIODIC
PPAWS	PREFORMED PLASTIC ADHESIVE WATERSTOP
PEMB	PRE-ENGINEERED METAL BUILDING
PSF	POUNDS PER SQUARE FOOT
RCP	REINFORCED CONCRETE PIPE
SC	SCALE
SQ	SQUARE
STD	STANDARD
STL	STEEL
SST	STAINLESS STEEL
Г&В	TOP & BOTTOM
ГBD	TO BE DETERMINED
Γ/	TOP
ΓYΡ.	TYPICAL
JCWS	UNIFIED SOIL CLASSIFICATION SYSTEM
JL	UNDERWRITERS LABORATORY
JON	UNLESS OTHERWISE NOTED
/ERT	VERTICAL
N/	WITH

FOUNDATIONS

- USED.
- INCREMENTS), OR

CAST-IN-PLACE CONCRETE

- FORM MATERIALS EARTH FORMS: SUBJECT TO ENGINEER'S APPROVAL.

- WATER : CLEAN POTABLE
- BONDING AGENT:
- 7. CURING MATERIALS DURING HANDLING AND PLACING.
- WATER : POTABLE, NOT DETRIMENTAL TO CONCRETE.
- CONCRETE MIX WATER/CEMENT RATIO (MAXIMUM): 0.42 BY WEIGHT. SLUMP (MAXIMUM): 3 INCHES (DUE TO WATER ONLY).
- 10. ERECTION FORMWORK CORNERS.
- GENERA
- 12. PLACEMENT OF REINFORCEMENT SLABS ON FILL: 3 INCH ALL OTHER: 2 INCH
- 13. PLACING CONCRETE
- 14. CONCRETE FINISHING FINISH.

1. IF FILL MATERIAL IS REQUIRED TO ACHIEVE REQUIRED FOOTING OR SLAB SUBGRADE ELEVATIONS, STRUCTURAL FILL SHALL BE

2. WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO PROPOSED BEARING ELEVATIONS, IF LOOSE SOILS ARE REVEALED, ADDITIONAL IN-PLACE MODIFICATION MUST BE PERFORMED USING A BACKHOE-MOUNTED VIBRATORY COMPACTOR (HOE-PAC) OR SIMILAR EQUIPMENT TO ACHIEVE A CONSISTENT BEARING STRATUM. SUITABLE COMPACTION/BEARING OF FOUNDATION SOILS CAN BE VERIFIED AS FOLLOWS AS APPROVED BY THE GEOTECHNICAL ENGINEER: EXHIBITING A COMPACTED (IN-SITU) DRY DENSITY OF AT LEAST 100 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D 698 (STANDARD PROCTOR) LABORATORY COMPACTION,

A DYNAMIC CONE PENETROMETER (DCP) READING OF AT LEAST 8 BLOWS PER INCREMENT (AVERAGE OVER THREE

OTHER MÉTHODS TO DEMONSTRATE AN EQUIVALENT SPT N-VALUE OF 10 BPF OR GREATER.

WHERE EXPOSED FOUNDATION SUBGRADE SOILS CONTAIN MORE THAN TRACE (MORE THAN 5 PERCENT) ORGANICS. IF GRANULAR SOILS CAN NOT BE MODIFIED IN-PLACE, OR OTHER UNSUITABLE FOUNDATION SOILS ARE ENCOUNTERED, OVER-EXCAVATION OF EXISTING SOILS SHALL BE PERFORMED. EXCAVATION SHALL EXTEND THROUGH THESE MATERIALS TO SUITABLE BEARING SOILS. THE BASE OF THE OVER-EXCAVATION SHALL BE WIDENED ONE FOOT FOR EVERY FOOT OF DEPTH BELOW THE PROPOSED BEARING ELEVATION, WITH THE EXCAVATION CENTERED ALONG THE FOUNDATION. THE OVER-EXCAVATED AREAS SHALL BE BACKFILLED AS FOLLOWS OR AS APPROVED BY THE GEOTECHNICAL ENGINEER:

DENSE-GRADED AGGREGATE, PLACED IN CONTROLLED LIFTS, AND COMPACTED TO NOT LESS THAN 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698.

LEAN CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 1,500 POUNDS PER SQUARE INCH (PSI) OR OTHER FLOWABLE CONTROLLED-DENSITY FILL HAVING A MINIMUM COMPRESSIVE STRENGTH OF 300 PSI. IF FOUNDATIONS WILL BE PLACED AT THE BASE OF THE OVER-EXCAVATION OR THE LEAN CONCRETE FILL OPTION WILL BE UTILIZED, WIDENING THE FOUNDATION OVER-EXCAVATION WILL NOT BE REQUIRED. IF THE CONTROLLED-DENSITY FILL OPTION IS UTILIZED, THE FOUNDATION OVER-EXCAVATION SHALL BE WIDENED AS DISCUSSED ABOVE

4. IF PERCHED GROUNDWATER IS PRESENT, IT SHALL BE LOWERED TO AT LEAST 1 FOOT BELOW BEARING, BY PUMPING FROM SUMPS AND/OR USE OF MULTIPLE WELL POINTS.

5. STRUCTURAL FILL SHALL CONSIST OF NON-ORGANIC SOILS HAVING A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 OF 90 POUNDS PER CUBIC FOOT (PCF) OR GREATER AND SHALL BE WITHIN 3 PERCENT OPTIMUM MOISTURE CONTENT. ON-SITE SOILS MAY BE USED AS STRUCTURAL FILL PROVIDED THAT MATERIALS ARE FREE OF ORGANIC MATTER, DEBRIS, EXCESSIVE MOISTURE, AND ROCK OR STONE FRAGMENTS LARGER THAN 3 INCHES IN DIAMETER.

STRUCTURAL FILL SHALL BE PLACED IN UNIFORM LAYERS NO MORE THAN 8 INCHES THICK (LOOSE MEASURE) AND ADEQUATELY KEYED INTO STRIPPED AND SCARIFIED SOILS. ALL FILL WITHIN THE BUILDING AREAS SHALL BE COMPACTED TO NOT LESS THAN 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698.

1. COMPLY WITH ACI 301, ACI 318, AND REFERENCED STANDARDS.

FORMS FOR FINISH CONCRETE: PLYWOOD, LUMBER, METAL, OR OTHER ACCEPTABLE MATERIAL. PROVIDE LUMBER DRESSED ON AT LEAST TWO EDGES AND ONE SIDE FOR TIGHT FIT.

FORM TIES: FACTORY-FABRICATED REMOVABLE OR SNAP-OFF METAL TYPE DESIGNED TO PREVENT FORM DEFLECTION AND ENT SPALLING CONCRETE UPON REMOVAL. UNITS TO LEAVE NO METAL CLOSER THAN 1 INCH TO SURFACE.

FORM RELEASE AGENT: COLORLESS MINERAL OIL WHICH WILL NOT STAIN CONCRETE OR ABSORB MOISTURE, OR IMPAIR NATURAL BONDING OR COLOR CHARACTERISTICS OF COATING INTENDED FOR USE ON CONCRETE INCLUDING CURING COMPOUND, SEALER, OR WATER-PROOFING.

REINFORCEMENT: REINFORCING STEEL: ASTM A615, 60 KSI YIELD GRADE, DEFORMED BILLET STEEL BARS, UNFINISHED; OR ASTM A616, 60 KSI YIELD GRADE, DEFORMED RAIL STEEL BARS, UNFINISHED.

<u>CONCRETE MATERIALS AND ADMIXTURES</u> <u>CEMENT</u>: ASTM C150, TYPE II. <u>FINE AND COARSE AGGREGATES</u> ASTM C33 (NORMAL WEIGHT AGGREGATE); MATERIALS CONTAINING DELETERIOUS SUBSTANCES (SPALLING CAUSING) ARE NOT ACCEPTABLE.

AIR ENTRAINMENT: ASTM C260; MASTER BUILDERS MICRO-AIR, OR AS APPROVED.

CHEMICAL: ASTM C494 TYPE A - WATER-REDUCING, TYPE B - RETARDING, TYPE D - WATER-REDUCING AND RETARDING, TYPE F - WATER-REDUCING, HIGH RANGE, TYPE G -WATER-REDUCING, HIGH RANGE AND RETARDING; CONTAINING NO CHLORIDES. MASTER BUILDERS, W.R. GRACE, OR AS APPROVED.

FLY ASH: ASTM C618 CLASS F OR C; LOSS ON IGNITION LESS THAN 3 PERCENT

ROVIDE THREE-COMPONENT EPOXY RESIN-CEMENTED BLENDED FORMULATED AS A BONDING AGENT; SIKA ARMATEC 110 EPOCEM. AS MANUFACTURED BY SIKA CORPORATION OR AS APPROVED.

<u>MEMBRANE CURING COMPOUND</u> ASTM C309, TYPE I-D, CLASS B, CLEAR WITH FUGITIVE DYE WHICH DISAPPEARS APPROXIMATELY 24 HOURS AFTER EXPOSURE TO SUNLIGHT; SPRAY-CURE SAFE CURE CLEAR, EUCLID CHEMICAL

COMPANY KUREZ DR, OR AS APPROVED. CURING COMPOUND SHALL BE COMPATIBLE WITH COATINGS WHICH ARE TO BE APPLIED TO THE CONCRETE SURFACE. ABSORPTIVE MATS: BURLAP-POLYETHYLENE, MINIMUM 8 OUNCES PER SQUARE YARD BONDED TO PREVENT SEPARATION

CONCRETE PROPORTIONS: COMPLY WITH ACI 301, 4.2. CLASS I CONCRETE: PROVIDE CONCRETE TO THE FOLLOWING CRITERIA:

COMPRESSIVE STRENGTH (7 DAY): 3,600 PSI.

COMPRESSIVE STRENGTH (28 DAY): 4,500 PSI.

AIR ENTRAINED: 6 PERCENT. +1 PERCENT.

FLY ASH CONTENT: MAXIMUM 25 PERCENT OF CEMENT CONTENT

MID OR HIGH RANGE WATER REDUCER: ADD TO INCREASE SLUMP TO 6 INCHES. +1-1/2 INCHES.

COORDINATE WITH WORK OF OTHER SECTIONS IN FORMING AND PLACING OPENINGS, RECESSES, SLEEVES, BOLTS, ANCHORS, OTHER INSERTS, AND COMPONENTS OF OTHER WORK. PROVIDE CHAMFER STRIPS ON ALL EXTERNAL

USE CLASS I CONCRETE FOR STRUCTURAL CONCRETE. VERIFY CONSTRUCTION JOINTS, AND REINFORCEMENT ARE ACCEPTABLE. PLACE EPOXY GROUT IN FULL ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING COMPRESSED AIR CLEANING OF ALL CONTACT SURFACES.

PLACE, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. DO NOT DEVIATE FROM REQUIRED POSITION. UNLESS NOTED OTHERWISE, MAINTAIN CONCRETE COVER FOR REINFORCEMENT AS FOLLOWS: FOOTINGS AND CONCRETE FORMED AGAINST EARTH: 3 INCH

LAP SPLICES AS INDICATED ON THIS SHEET.

DO NOT FIELD-CUT REINFORCEMENT WITHOUT ENGINEER'S PERMISSION.

THE LONGITUDINAL REINFORCING STEEL IN WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS.

NO WATER SHALL BE ADDED TO CLASS I CONCRETE ON SITE. PLACEMENT OF CONCRETE UNDER WATER IS NOT PERMITTED. CONSOLIDATE CONCRETE PER ACI-301-16 SECTION 5.3.2.5. PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES DURING MIXING, PLACING AND CURING; IN HOT WEATHER COMPLY WITH ACI 305R, IN COLD WEATHER COMPLY WITH ACI 306R.

PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES

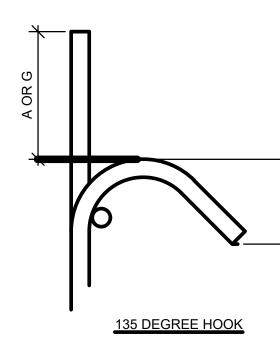
CONCRETE FLOOR SURFACES: ACI 301 5.3.4.2.C, TROWEL FINISH; EXTERIOR TRAFFIC AND TOP OF WALL SURFACES: ACI 301.5.3.4.2.D, BROOM FINISH. MAXIMUM VARIATION OF SURFACE FLATNESS FOR EXPOSED CONCRETE FLOORS: 1/8 INCH IN 10 FEET. CONCRETE SURFACES NOT EXPOSED: ACI 301, 5.3.3.3.A, ROUGH FORM FINISH. EXPOSED FORMED SURFACES: ACI 301, 5.3.3.4.B, GROUT-CLEANED

CAST-IN-PLACE CONCRETE CONTINUED

- ACCEPTED PROCEDURE SPRAYING: SPRAY WATER OVER FLOOR SLAB AREAS AND MAINTAIN WET FOR 7 DAYS.
- AREAS, LAPPING ENDS AND SIDES; MAINTAIN IN PLACE FOR 7 DAYS. MEMBRANE CURING COMPOUND:
- VERTICAL SURFACES: CURE SURFACES USING ANY OF THE FOLLOWING ACCEPTED PROCEDURES: FORMWORK: KEEP FORMS IN PLACE FOR 7 DAYS; MEMBRANE CURING COMPOUND
- 16. FIELD QUALITY CONTROL

TESTS OF CONCRETE SLUMP, AIR CONTENT AND STRENGTH SHALL BE MADE IN ACCORDANCE WITH ACI RECOMMENDATIONS. SAMPLES FOR AIR CONTENT AND STRENGTH SHOULD BE TAKEN AS NEAR AS PRACTICAL TO THE POINT OF PLACEMENT INTO THE FORMWORK OR AT A LOCATION WHICH CLOSELY MATCHES THE HANDLING CONDITIONS WHEN THE CONCRETE IS PLACED IN THE FORMS. PRIOR TO THE ADDITION OF A MID OR HIGH RANGE WATER REDUCER, A SLUMP TEST MAY BE MADE FROM A SAMPLE TAKEN FROM THE VERY FIRST CONCRETE OUT OF THE LOAD.

	REINFORCEMENT LAP SPLICE, EMBEDMENT LENGTH, AND STANDARD HOOK TABLE										
	LEN	N LAP IGTHS BEAMS	FOR SI	LENGTHS .ABS AND ALLS MIN LAP		MI	N EMBEDMI LENGTHS	ENT		N STD OOKS	
BAR SIZE	CLAS	S B	CLA	SS B	LENGTH FOR	STRAI	GHT BARS	WITH STD	90 DEG	135 I	DEG
	TOP	OTHERS	TOP	OTHERS	COLUMNS	TOP	OTHERS	HOOKS	A OR G	A OR G	Н
#3	25	19	16	16	12	19	15	5	6	4	2.5
#4	39	25	20	16	15	25	19	7	8	4.5	3
#5	41	31	25	19	19	31	24	9	10	5.5	3.75
#6	49	37	29	23	23	37	29	10	12	8	4.5
#7	71	54	43	33	27	54	42	12	14	9	5.25
#8	81	62	49	37	30	62	48	14	16	10.5	6
#9	91	70	60	46	34	70	54	15	19	-	-
#10	102	79	74	57	39	79	61	17	22	-	-
#11	114	87	89	69	43	87	67	19	24	-	-



SPLICE TABLE NOTES:

REINFORCEMENT LAP SPLICE, EMBEDMENT LENGTH, AND STANDARD HOOKS TABLE IS BASED ON MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 4,000 PSI AND 60,000 PSI REINFORCEMENT (WITH NO EPOXY COATING).

ALL LAP SPLICES SHALL BE CLASS B SPLICES.

THE MINIMUM LAP LENGTH FOR BEAMS AND STRAIGHT EMBEDMENT ARE BASED ON A 3 BAR DIAMETER CENTER-TO-CENTER BAR SPACING AND A 2-INCH BAR COVER (MINIMUM). IF THE LAP CONDITION DOES NOT CONFORM TO THESE REQUIREMENTS, THEN USE BEAM LAP LENGTHS OR COMPLY WITH THE LAP REQUIREMENTS OF ACI 318 WITH APPROVAL BY ENGINEER.

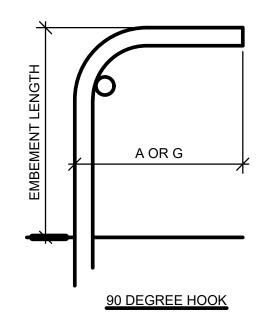
THE MINIMUM LAP LENGTH FOR SLABS AND WALLS IS BASED ON A 6-INCH BAR SPACING AND A 2-INCH BAR COVER (MINIMUM). IF THE LAP CONDITION DOES NOT CONFORM TO THESE REQUIREMENTS, USE BEAM LAP LENGTHS IN ACCORDANCE WITH ACI 318, WITH APPROVAL BY ENGINEER.

TOP BARS ARE DEFINED AS WALL, BEAM, OR SLAB HORIZONTAL BARS WITH 12" OR MORE OF FRESH CONCRETE BENEATH. WHERE SPLICES ARE INDICATED BETWEEN BARS OF DIFFERENT SIZES, THE SPLICE LENGTH SHALL BE BASED ON THE SMALLER

BAR SIZE.

15. <u>CURING</u> <u>HORIZONTAL SURFACES:</u> CURE FLOOR SURFACES IN ACCORDANCE WITH ACI 301 USING ANY OF THE FOLLOWING

ABSORPTIVE MAT: SATURATE BURLAP-POLYETHYLENE AND PLACE BURLAP-SIDE DOWN OVER FLOOR SLAB





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STRUCTURAL QUALITY ASSURANCE PLAN

THIS STRUCTURAL QUALITY ASSURANCE PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE TESTING AND INSPECTION OF THE WORK REQUIRED BY CHAPTER 17 OF THE BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT.

SPECIAL INSPECTOR'S RESPONSIBILITIES:

THE SPECIAL INSPECTOR SHALL BE A LICENSED ENGINEER IN THE STATE OF GEORGIA OR PERFORMING APPROPRIATE DUTIES DIRECTLY UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF GEORGIA AND HAVE A THOROUGH UNDERSTANDING OF THE SPECIAL INSPECTION REQUIREMENTS OF THE GEORGIA BUILDING CODE. THE SPECIAL INSPECTOR SHALL BE AN INDIVIDUAL OR INDIVIDUALS CERTIFIED OR EXPERIENCED TO PERFORM SUCH INSPECTIONS IN A PARTICULAR FIELD.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. PERIODIC REPORTS SHALL BE PROVIDED AND SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED TO THE SATISFACTION OF THE SPECIAL INSPECTOR, THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE WORK.

A WEEKLY REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED. AT THE COMPLETION OF THE SPECIAL INSPECTIONS, THE LICENSED PROFESSIONAL ENGINEER IN CHARGE OF PERFORMING THE SPECIAL INSPECTION SHALL CERTIFY THE FINAL SPECIAL INSPECTION REPORT AND AFFIX HIS/HER SEAL TO THE SPECIAL INSPECTOR'S FINAL REPORT. PROVIDE THREE (3) COPIES OF THIS REPORT TO THE PROJECT ENGINEER.

SOILS:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT TEST REPORTS FOR ENGINEERED FILL. CONTRACTOR TO COORDINATE BUILDING DEPARTMENT INSPECTIONS AND SPECIAL INSPECTIONS.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

	TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF	SOILS	
	VERIFICATION AND INSPECTION	С	Р
1.	VERIFY MATERIALS BELOW FOOTINGS AND SLAB- ON-GRADE ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		х
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		Х
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		Х
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		Х

C = CONTINUOUS P = PERIODIC

CAST-IN-PLACE CONCRETE:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318. SUBMIT THREE COPIES OF THE CONCRETE MIX DESIGNS. INCLUDE THE FOLLOWING:

MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.

3. SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH

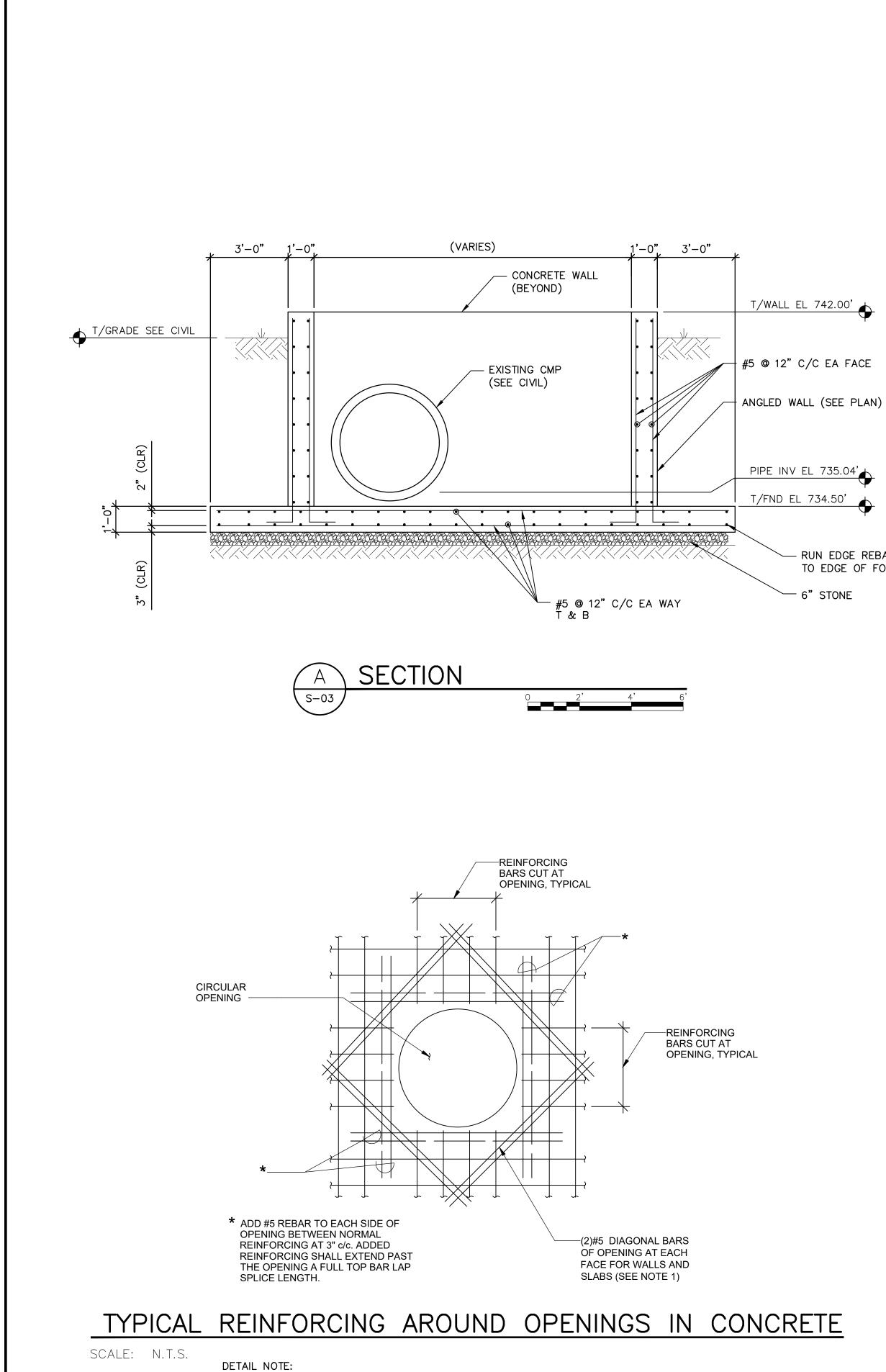
THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

- A. TYPE AND QUANTITIES OF MATERIALS
- B. SLUMP C. AIR CONTENT
- D. FRESH UNIT WEIGHT
- E. AGGREGATES SIEVE ANALYSIS
- F. DESIGN COMPRESSIVE STRENGTH G. LOCATION OF PLACEMENT IN STRUCTURE
- H. METHOD OF PLACEMENT
- METHOD OF CURING J. SEVEN-DAY AND 28-DAY COMPRESSIVE STRENGTHS
- 2. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT

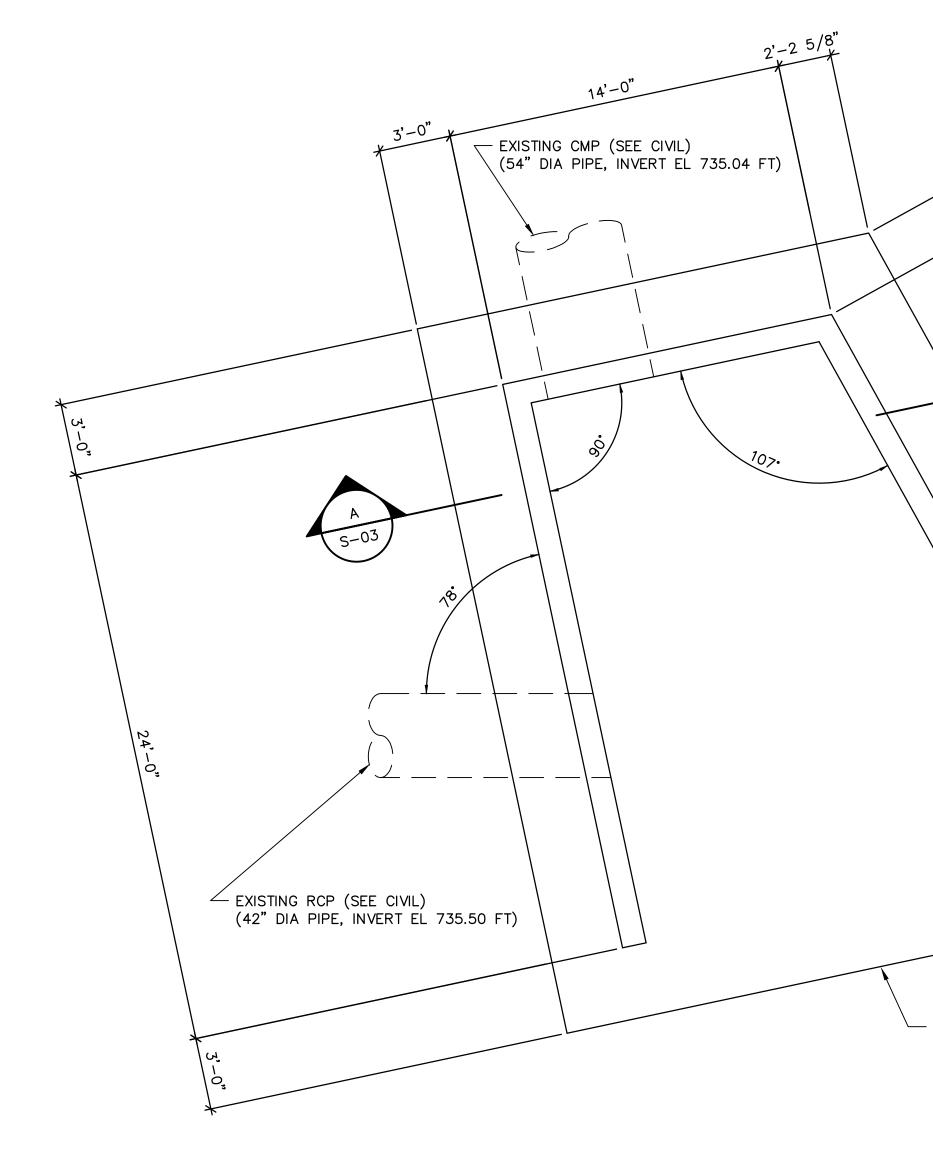
SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION							
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE			
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.	-	х	ACI 318: CH 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4			
2. INSPECTION OF ANCHORS CAST IN CONCRETE PRIOR TO PLACEMENT OF CONCRETE.	-	х	ACI 318: 17.8.2				
3. INSPECTION OF ANCHORS POST -INSTALLED IN HARDENED CONCRETE MEMBERS.	х	x	ACI 318: 17.8.2.4				
4. VERIFYING USE OF REQUIRED DESIGN MIX.	-	Х	ACI 318 Ch: 19, 26.4.3, 26.4.4	1904.1-2, 1908.2-3			
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	х	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10			
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8			
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE ANS TECHNIQUES.	-	х	ACI 318: 26.5.3-26.5.5	1908.9			
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	х	ACI 318: 26.11.1(b)	-			

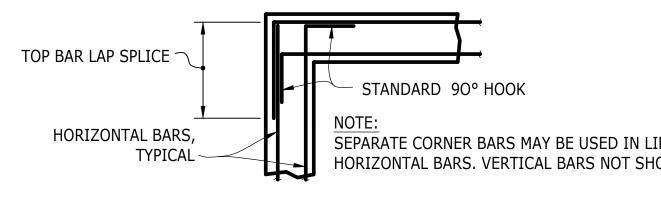
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			RUCTURAL	٧S	
Know what's below. Call before you dig.	SCALE		as shown S-02		



1. DIAGONAL BARS SHALL BE EMBEDDED IN THE BASE SLAB PRIOR TO WALL CONSTRUCTION, AS APPLICABLE.



HEAD WALL A-01 - FOUNDAT



SECTIONAL PLAN

TYPICAL WALL INTERSECTION REINFORCING DETAILS



- RUN EDGE REBAR PARALLEL

TO EDGE OF FOOTING (TYP)

- 6" STONE

N. N. N. N. N. N. N. N. N. N.	LEGAL EL ARCADIS 2839 PA ATLANTA, TEL: 770 WWW.ARC CONSULT
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Know what's **below. Call** before you dig.

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ISSUED FOR CONSTRUCTION			
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* No. BEOSOGTO			
ENGINEER HE			
10/18/24			
WHITFIELD COUNTY, GEORGIA CITY OF DALTON			
WEST FRANKLIN STREET BYPASS SYSTEM			
ARCADIS PROJ. NO. 30078891			
		ISSUED FOR	
0 NO.	10/24 DATE	ISSUED FOR CONSTRUCTION ISSUED FOR	CGC BY
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DATE:		OCTOBER 2024	
		30064797	
FILE N		L. ARMBRUSTER	
		D. WASHINGTON	
CHECK	(ED BY:	L. BOWE	
SHEET TITLE			
STRUCTURAL			
HEAD WALL A-01 PLAN, SECTION &			
DETAILS			
SCALE		AS SHOWN	
		S-03	