

PROPOSED CHANGE ORDER REQUEST

Department of Watershed Management

Contract Name: Annual Water and Sewer Construction Contracts, Small and Large

Date: 6/24/2021

Diameter Pipe

Contractor:

GS Construction, Inc. and SD & C

Contract Number:

1063844 and 1063841

Contract Amendment Number:

4

Contract Amendment Category:

✓ Cost

✓ Schedule

✓ Scope

✓ Deliverables

Contract	Original Contract \$ Amount:	Contract Start Date:	Original Contract Days:(Term)	Original Contract End Date:
1063844	\$9,000,000.00	8/15/2017	381	8/31/2018
1063841	\$9,000,000.00	8/28/2017	368	8/31/2018

Contract	NTP Start Date:	Original Performance Days:	Original Performance End Date:
1063844	8/16/2017	365	8/31/2018
1063841	8/16/2017	365	8/31/2018

Contract	Previous Renewal:	Previous Time Extensions (Days):	Previous Changes to \$ Amount:
1063844	Renewal No. 1:	365	\$9,000,000.00
1003844	Renewal No. 2:	365	\$11,000,000.00
1062941	Renewal No. 1:	365	\$9,000,000.00
1063841	Renewal No. 2:	365	\$8,000,000.00

Contract	Previous Change Order:	Previous Time Extensions (Days):	Previous Changes to \$ Amount:
1063844	Change Order No. 1:	0	\$6,324,125.00
1063844	Change Order No. 2:	289	\$4,947,138.00
1063844	Change Order No. 3:	122	\$0.00
1063841	Change Order No. 1:	0	\$4,351,784.00
1063841	Change Order No. 2:	289	\$6,245,527.00
1063841	Change Order No. 3:	122	\$0.00

Contract	Current Contract Amount:	Current Performance Time (Days):	Current Performance End Date:
1063844	\$40,271,263.00	1506	9/30/2021
1063841	\$36,597,311.00	1506	9/30/2021

Description of Proposed Changes: Amendment/Change Order No. 4 is being requested to provide additional time to contracts #1063844 and 1063841 for GS Construction and SD&C, respectively. The proposed change also includes reconciliation of pay item #150-1001 for Traffic Control moving forward and updated pricing for the Briarcliff Waterline Replacement Project (Area 3A) for GS Construction and revised, lower pricing for cured in place pipe submitted by SD&C.

Justification of Proposed Changes: The extension will allow the County to continue to address water and sewer needs until new contracts are procured. The new ITB is under review with the Purchasing and Contracting Department and is expected to be procured by fourth quarter 2021. This change order is required in order to resolve conflicting language on the bid document as it relates to pay item #150-1001 traffic control for GS Construction. In an effort to align pricing with the other annual contractors, GS Construction will be paid \$1750/day for traffic control setup for any task order issued after April 1, 2021. This change order is also a request to approve the revised schedule of values for the Briarcliff Waterline Replacement Project (Area 3A). The initial request was based on estimated amounts which were later updated to meet the Department's current capacity needs and specification requirements. Lastly, DWM is also requesting the Board to approve the revised, lower pricing for CIPP submitted by SD&C as a result of a new subcontractor- see attachment.

Contract	Proposed Additional Performance Days:	Proposed Cumulative Performance Days:	Proposed Performance End Date:	Proposed Contract End Date:
1063844	92	1598	12/31/2021	12/31/2021
1063841	92	1598	12/31/2021	12/31/2021

Contract	Proposed Changes to Dollar Amount:	Proposed Cumulative Contract Amount:	Amount Spent To Date as of (6/24/21):
1063844	\$0.00	\$40,271,263.00	\$34,733,849.39
1063841	\$0.00	\$36,597,311.00	\$26,636,713.52

Describe Any Risk Associated With This Change: This request will allow for the replacement of waterlines to ensure sufficient water service to citizens and critical facilities in the area. DeKalb County will be at risk of not having a contract in place to complete imperative services for the Department of Watershed Mgmt.

Effect of NOT Approving This Change: The existing Annual Water and Sewer projects will expire if this change order is not approved and will leave the county without the necessary resources to complete water and sewer projects including the Briarcliff Watermain Replacement project that needs to be completed prior to December 2021.

Engineering Mana	iger's Approval:			
✓ Accepted Rejected		Cassandra Marshall, PMP Cassandra Marshall	Applies des les des des les des des les des les des des les des des des des des des des des des d	_
-	Date:	06.25.21		- -
Watershed Direct	or's Approval:			
✓ Accepted	Signature:	Reginald Wells	Digitally algred by Reginald Wells Date: 2021.06.25 10.00.46 -04/00	
Rejected	Print Name:	Reginald Wells		_
	Date:	06/25/2021		_
Chief Operating O	fficer's Approval:			
Accepted	Signature:	Jula Me		
Rejected	Print Namer	Tacher L.	Williams	
	Dete:	6/29/21		-
Cont	ract Name: Annual	Water and Sewer Constru	uction Contracts, Small and Large Diameter P	ipe
	Contractor: GS Con	struction, Inc. and SD & C		
Contrac	t Number: 106384	4 and 1063841		
Contract A	mendment Number: 4			

SD & C Revised CIPP Pricing

				Existing	Proposed Unit
Item#		Description	Unit	unit price	Price
		Bypass Pumping on 16" and Smaller Diameter Pipes W/Flow between			
89	670-6050a	25 and 50%	LF	\$ 186.00	\$ 120.00
156	936-1000	CCTV Inspection (Pre Installation), If Requested By The County	LF	\$ 37.20	\$ 10.00
163	660-2601a	Sewer, Internal Cleaning 6" to 10" Diameter	LF	\$ 12.00	\$ 11.00
164	660-2601b	Sewer, Internal Cleaning 12" to 15" Diameter	LF	\$ 13.20	\$ 13.00
165	999-7901a	Sewer Debris Removal and Disposal from Cleaning	TN	\$ 244.80	\$ 244.80
178	660-5001a	Cured-In-Place Pipe 8" Dia 6 mm Thick	LF	\$ 384.00	\$ 65.00
179	660-5001b	Cured-In-Place Pipe 10" Dia6 mm Thick	LF	\$ 144.00	\$ 72.00
180	660-5001c	Cured-In-Place Pipe 12" Dia 7.5 mm Thick	LF	\$ 238.80	\$ 73.00
181	660-5001d	Cured-In-Place Pipe 15" Dia9 mm Thick	LF	\$ 168.00	\$ 80.00
182	660-5001e	Cured-In-Place Pipe 18" Dia 12 mm Thick	LF	\$ 192.00	\$ 121.00
184	660-5001g	Cured-In-Place Pipe 24" Dia15 mm Thick	LF	\$ 299.00	\$ 185.00
185	660-5002a	Robotic Reconnection of Existing Service Laterals	EA	\$ 175.40	\$ 175.40



WORK ORDER APPROVAL FORM

Department of Watershed Management

Contract Name:		Work Order Approval Date:
Assigned WO Number:		Contract Number:
Total Contract Amount:		Vendor:
Work Order Amount:		Contact Person:
Total Previous Issued:		Contact Number:
Balance on Contract:		Contact Email:
Scope of Work:		
	P 11	
Contractor's Approval: if		
Accepted	Print Name:	
Rejected	Signature:	
	Date:	
Project Sponsor's Approv	val:	
Accepted	Print Name:	
Rejected	Signature:	
	Date:	
Construction Manager's A		
Accepted	Print Name:	
Rejected	Signature:	
	Date:	
Engineering Manager - Co	onstruction App	roval:
Accepted	Print Name:	
Rejected	Signature:	
	Date:	

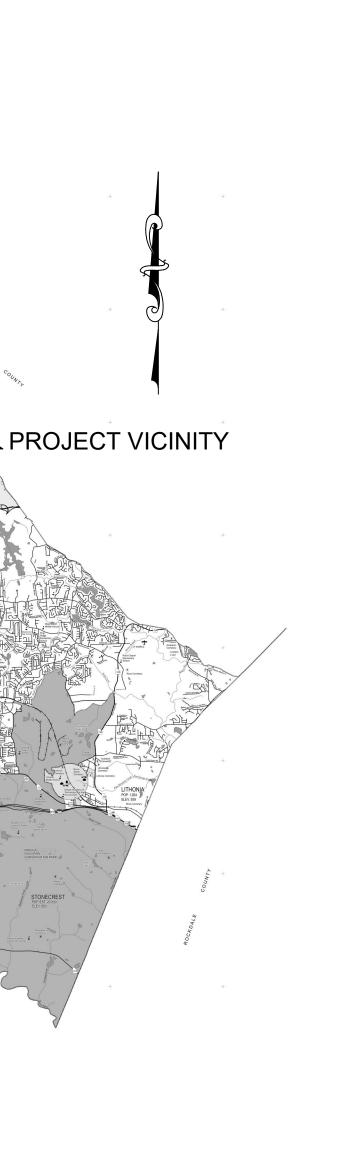
This executed form gives your firm permission to proceed with the work as outlined within the work order.

	GS Construction						
ITEM NO.	DESCRIPTION OF WORK	UNITS	ESTIMATED CONTRACT QUANTITIES		ONTRACT NIT PRICE		CONTRACT SCHEDULED VALUE
	BCWRIP Briarcliff IIIA						
151-1000	Mob/Demob	LS	1	\$	7,500.00	\$	7,500.00
150-1001 432-0208	Traffic Control Mill Asph Conc Pvmt 2" Depth	DY SY	120 3366,7	\$	950.00 25.00	\$ \$	114,000.00 84,167.50
441-5003	Concrete Header Curb - All Types C1	LF	100	\$	18.00	\$	1,800.00
444-1000	Sawcutting	LF	12120	\$	10.00	\$	121,200.00
670-1160	16" DIP Zinc Coated w field lock Gaskets	LF	2520	\$	206.00	\$	519,120.00
670-1120 670-1180	12" DIP Zinc Coated w field lock Gaskets 8" DIP Zinc Coated w field lock Gaskets	LF LF	2700 460	\$ \$	171.00 156.00	\$	461,700.00 71,760.00
NC027	6" DIP Zinc Coated w field lock Gaskets	LF	380	\$	156.00	\$	59,280.00
652-5451	Solid Traffic Stripe 5" White or Yellow	LF	6060	\$	3.00	\$	18,180.00
670-2002	Valve Marker	EA	16	\$	125.00	\$	2,000.00
670-2003 668-3304a	Air Release Valve Assembly 4' Diameter Manhole 1'-8' Depth	EA EA	2	\$	5,500.00 3,250.00	\$	11,000.00 6,500.00
670-2160	Gate Valve 16"	EA	7	\$	10,000.00	\$	70,000.00
670-2120	Gate Valve 12"	EA	10	\$	2,400.00	\$	24,000.00
670-2060	Gate Valve 6"	EA	17	\$	1,500.00	\$	25,500.00
670-2080 670-3066	Gate Valve 8" TSV 6 x 6	EA EA	9	\$	1,800.00 5,500.00	\$	16,200.00 11,000.00
670-3000	TSV 8 x 8	EA	9	\$	6,000.00	\$	54,000.00
207-0203	Furnish and install Foundation Backfill material	CY	3927.777778	\$	35.00	\$	137,472.22
670-4000	Fire Hydrant	EA	16	\$	4,000.00	\$	64,000.00
670-5620	Water Service Line 1"	LF	2250	\$	35.00	\$	78,750.00
670-5640 100-9300	Water Service Line, 1 1/2in Asphalt Pave Restore	LF SY	600 3366.7	\$	40.00 65.00	\$	24,000.00 218,835.50
500-2200	Plain Concrete 4000 PSI	CY	10	\$	135.00	\$	1,350.00
500-2201	Plain Concrete 5000 PSI	CY	100	\$	165.00	\$	16,500.00
600-0001	Flowable Fill	CY	124	\$	200.00	\$	24,800.00
610-0959a	Remove Pipe 6"-16" Rock Excavation	LF CY	10 10	\$	35.00 100.00	\$	350.00
660-3550 670-9100	Block Sod	SY	100	\$ \$	10.00	\$	1,000.00 1.000.00
670-9101	Temp Grassing	SY	50	\$	1.00	\$	50.00
670-9741	Complete Installation 3/4in & 1in Water Meter & Box and All N		75	\$	400.00	\$	30,000.00
670-9730	Reloc. Meter & svc from 1-25 ft	EA	2	\$	2,500.00	\$	5,000.00
670-9736 670-9400	Relocate 1.5" -2" Water meter and box (1-25lf) Haul off unsuitable	EA CY	1 3927.777778	\$	5,500.00 65.00	\$	5,500.00 255,305.56
NC43	Police Officer	HR	600	\$	100.00	\$	60,000.00
NC48	Message Board Monthly Rate	МО	12	\$	4,000.00	\$	48,000.00
n/a	Retro Setters (contractor purchase)	EA	45	\$	450.00	\$	20,250.00
n/a LR001	Meter Boxes Crew Foreman	EA HR	45 1	\$	100.00 95.00	\$ \$	4,500.00 95.00
LR001	Labor- Utility	HR	1	\$	75.00	\$	75.00
LR003	Skilled Labor- Pipe Layer	HR	1	\$	75.00	\$	75.00
LR004	Heavy Equipment Operator	HR	1	\$	75.00	\$	75.00
LR007	Dump Truck	HR	1 00	\$	200.00	\$	200.00
LR019 LR010	Flaggers Skid Steer/Sweeper	HR HR	1.00 1.00	\$	55.00 130.00	\$	55.00 130.00
LR006	Service Truck	HR	1.00	\$	125.00	\$	125.00
LR008	Excavator	HR	1.00	\$	225.00	\$	225.00
LR012	Trench Compactor	DY	1.00	\$	500.00	\$	500.00
LR013 LR014	Hydrostatic Test Pump Air Compressor/Light Tower	DY DY	1.00 1.00	\$	200.00	\$	200.00 250.00
LR014 LR014	Light Tower	DY	1.00	\$	250.00	\$	250.00
LR015	Jack Hammer	DY	1.00	\$	350.00	\$	350.00
LR016	Traffic Signs	DY	120	\$	150.00	\$	18,000.00
429-1000d	Concrete Pavement Patch (Gdot 1401)	SY	4208.375	\$	65.00	\$	273,544.38
NC053 SP01	Water Service Line 2" Polywrap pipe 12"	LF LF	25 2700	\$	65.00 10.00	\$ \$	1,625.00 27,000.00
SP02	Polywrap Pipe 12"	LF	2520	\$	15.00	\$	37,800.00
	Hydrant Meter usage	LS	1	\$	5,000.00	\$	5,000.00
	TOTAL					•	2.044.445.45
	TOTAL					\$	3,041,145.15

DEKALB COUNTY

DEPARTMENT OF WATERSHED MANAGEMENT BRIARCLIFF ROAD WATER MAIN REPLACEMENT PROJECT PHASE IIIA **JUNE 2020**

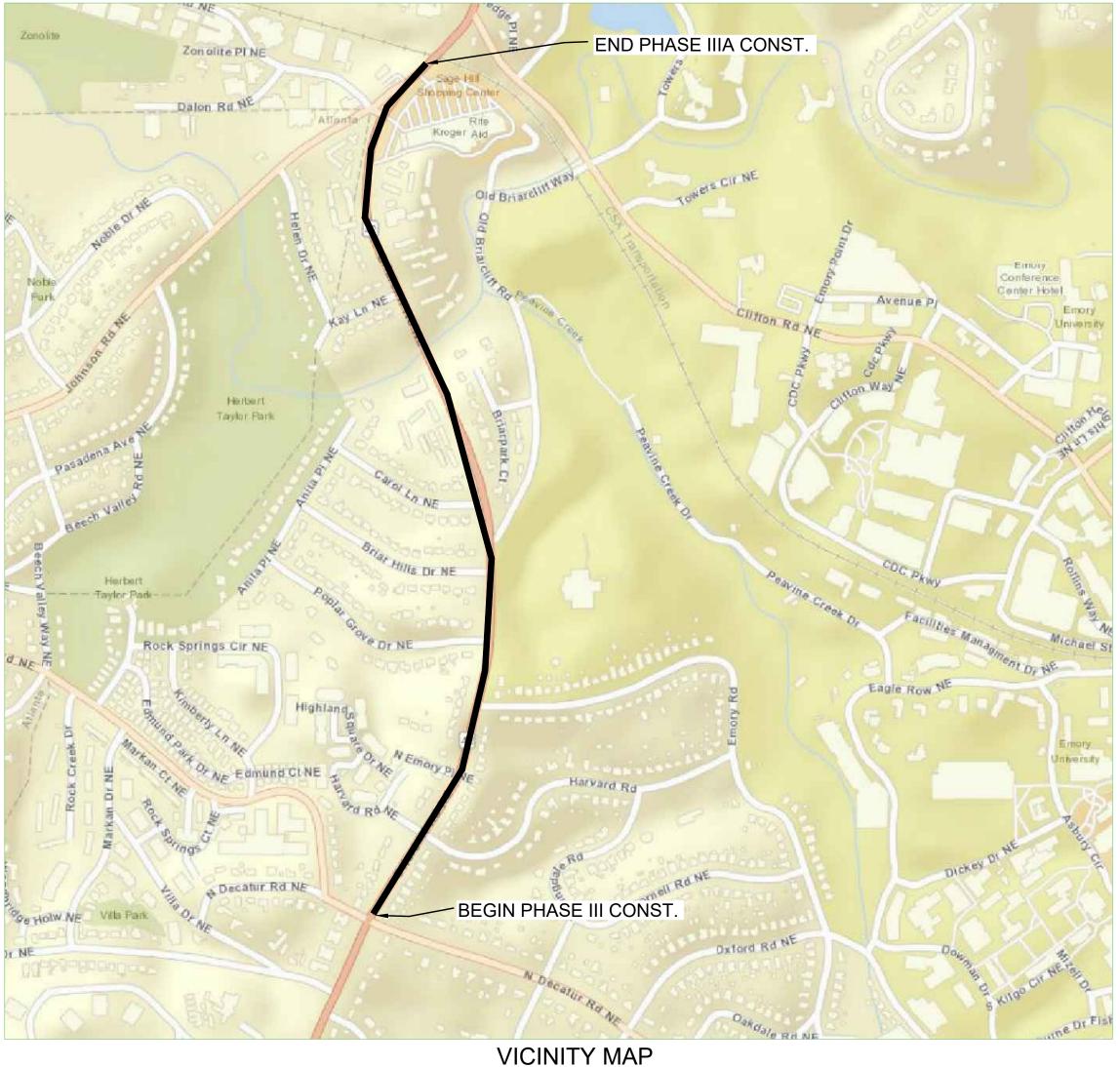
SITE LOCATION: FROM THE INTERSECTION OF BRIARCLIFF ROAD AND NORTH DECATUR ROAD TO NEAR THE INTERSECTION OF BRIARCLIFF ROAD AND





SITE LOCATION MAP

NOT TO SCALE



NOT TO SCALE

WATER AND SEWER NOTES

• ALL DESIGN AND CONSTRUCTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF

WATERSHED MANAGEMENT DESIGN STANDARDS, LATEST EDITION. • THE DESIGN STANDARDS, LATEST EDITION ARE PROVIDED ON THE DWM ECMS WEBSITE.

• CONTRACTOR SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLANS" (IF APPLICABLE) IN HARD COPY AND ELECTRONIC FORMAT (AUTOCAD OR MICROSTATION).

• FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL TO THE DWM CONSTRUCTION MANAGER.

 CONTRACTOR MUST NOTIFY WATER AND SEWER CONSTRUCTION INSPECTOR 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES:

DISTRICT 15: DISTRICT 18:

LONNIE KELLEY DANIEL TUCKER

(404) 391-4164 (404) 732-6411

DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT 4572 MEMORIAL DRIVE DECATUR, GEORGIA 30032 CONTACT: EDMOND KILLINGBECK PHONE: (470) 786-2125

OFFICERS

CHIEF EXECUTIVE OFFICER MICHAEL THURMOND

DEKALB COUNTY BOARD OF COMMISSIONERS NANCY JESTER **DISTRICT 2** JEFF RADER **DISTRICT 3** LARRY JOHNSON DISTRICT 4 STEVE BRADSHAW DISTRICT 5 MEREDA DAVIS JOHNSON

DISTRICT 6 KATHIE GANNON LORRAINE COCHRAN-JOHNSON DISTRICT 7

DEPARTMENT OF WATERSHED MANAGEMENT REGINALD WELLS

DESIGNER ATKINS, NORTH AMERICA 1600 RIVEREDGE PARKWAY, SUITE 700

ATLANTA, GEORGIA 30328

DRAWING INDEX

COVER

LEGEND AND ABBREVIATIONS

GENERAL NOTES

PLAN & PROFILE STA 0+00 TO STA 11+00

PLAN & PROFILE STA 11+00 TO 22+00 PLAN & PROFILE STA 22+00 TO 33+00

PLAN & PROFILE STA 33+00 TO 44+00

PLAN & PROFILE STA 44+00 TO 55+00

STANDARD DETAILS STANDARD DETAILS

STANDARD DETAILS

NOTES

1. ALL EROSION AND SEDIMENTATION CONTROLS AND ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING.

2. CONTACTS:

DEKALB WATERSHED MANAGEMENT EDMOND KILLINGBECK, PHONE: (470) 786-2125 24 HR EMERGENCY OPERATIONS CONTACT, PHONE: (470) 786-2125

B. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION ON DEKALB COUNTY ROADS.

4. BEGIN CONSTRUCTION: N: 33.791193 W: 84.338013 END CONSTRUCTION: N: 33.806062 W: 84.335966

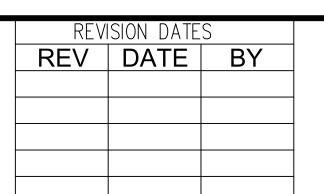
100% SUBMITTAL

ATKINS 1600 Riveredge Parkway, Suite 700

Atlanta, Ga 30328

P: 770-933-0280





DEKALB COUNTY DWM BRIARCLIFF ROAD WATER MAIN REPLACEMENT PHASE IIIA NORTH DECATUR ROAD TO CLIFTON ROAD

COVER



GENERAL ABBREVIATIONS GENERAL ABBREVIATIONS (CONT'D.) ABOVE FINISHED FLOOR LB POUND ALUMINUM ALTERNATE LINEAR FEET ALT LG LONG LP **LOW POINT BOTTOM OF BLIND FLANGE** LONG RADIUS **BUTTERFLY VALVE** BFV LWL LOW WATER LEVEL BUILDING BLDG BOTTOM BOT MOTOR **BRITISH THERMAL UNIT** BTU MAG MAGNETIC BALL VALVE BV **MATL** MATERIAL MAX MAXIMUM **CUBIC FEET PER MINUTE** MCC MOTOR CONTROL CENTER CFM MECH CHKV CHECK VALVE MECHANICAL **MFR** MANUFACTURER CJ **CONSTRUCTION JOINT** MH MANHOLE CENTER LINE MIN MINIMUM **CONTROL JOINT** CLJ MJ CLOS CLOSET MECHANICAL JOINT MTL CLR CLEAR METAL **CONCRETE MASONARY UNIT** CMU CO CLEAN OUT NORTH COLUMN COL NC NORMALLY CLOSED CON CONCENTRIC NORMALLY OPENED NO CONC CONCRETE CONNECTION CONN CONTINUOUS CONT OC ON CENTER CP **CONTROL PANEL** OD **OUTSIDE DIAMETER** CHLORINATED POLYVINYL CPVC **OPNG** OPENING CHLORIDE PIPE CPLG COUPLING **PLCS** CU COPPER **PLACES PREFAB** PREFABRICATED DOOR **PRV** PRESSURE REDUCING VALVE DBL DOUBLE PS PUMP STATION POUNDS PER SQUARE INCH DI **DUCTILE IRON** PSI PV DIAMETER PLUG VALVE DIA DIM **DIMENSION** PVC POLYVINYL CHLORIDE PIPE DIP **DUCTILE IRON PIPE** DN DOWN **RADIUS** RB DWG DRAWING REBAR **RCP** REINFORCED CONCRETE PIPE RD EAST **ROOF DRAIN** RED ECC **ECCENTRIC** REDUCER REF EF EACH FACE REFERENCE **REINF ELEVATION** REINFORCED **REQD ELEC ELECTRICAL** REQUIRED RJ **RESTRAINED JOINT EQUIP EQUIPMENT RPM** EW **EACH WAY REVOLUTIONS PER MINUTE** RT **EXIST EXISTING** RIGHT EXP **EXPANSION** EXT **EXTERIOR** SOUTH SCH SCHEDULE FD FLOOR DRAIN SHT **FOUNDATION** FDN SIM SIMILAR FINISHED FLOOR FF S.J. SAW CUT JOINT FIRE HYDRANT FΗ SANITARY MANHOLE SMH SPEC FINISHED FIN **SPECIFICATION** FLOOR FL SQ SQUARE **FLANGED** FLG SS STAINLESS STEEL OR SANITARY SEWER FLRD FLARED STD STANDARD FΜ **FORCE MAIN** SL STEEL FRP FIBER GLASS REINFORCED PIPE FT FOOT UNO **UNLESS NOTED OTHERWISE** GAL GALLON TOP **GALVANIZED** GALV T/C THRUST COLLAR **GENERATOR** TBM GEN TEMPORARY BENCH MARK THK GND GROUND THICK GPM GALLONS PER MINUTE TOW TOP OF WALL TYP GV **GATE VALVE TYPICAL** VAC VCP VACUUM HB **HOSE BIBB** VITRIFIED CLAY PIPE HDWL HEADWALL VERT VIC VERTICAL HM **HOLLOW METAL** HORIZ VICTAULIC HORIZONTAL VTR VENT THROUGH ROOF HP HORSEPOWER OR HIGH POINT **HVAC** HEATING, VENTILATING AND AIR CONDITIONING WATER HWL HIGH WATER LEVEL WDWOOD I.E. **INVERT ELEVATION** WITH W/O WITHOUT **INCR** INCREASER WWF WELDED WIRE FABRIC IPF IRON PIN FOUND **JOINT** JT **XFMR** TRANSFORMER KW **KILOWATT** YΗ YARD HYDRANT DEGREES CENTIGRADE DEGREES FAHRENHEIT

LEGEND





Know what's below Call before you dig

100% SUBMITTAL

DRAWING No.

1600 Riveredge Parkway, Suite 700 Atlanta, Ga 30328

P: 770-933-0280



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DEKALB COUNTY DWM

BRIARCLIFF ROAD WATER MAIN REPLACEMENT PHASE IIIA

NORTH DECATUR ROAD TO CLIFTON ROAD

LEGEND AND ABBREVIATIONS

GENERAL NOTES FOR WATER MAIN INSTALLATION

TO INSTALLATION OF PROPOSED IMPROVEMENTS.

- 1. A PRECONSTRUCTION CONFERENCE MUST BE HELD WITH MEMBERS OF DEKALB DEPARTMENT OF WATERSHED MANAGEMENT (DWM) AND THE CONTRACTOR OF RECORD BEFORE ANY WORK CAN BE DONE ON SITE. CONTRACTOR TO NOTIFY DEKALB COUNTY PROJECT MANAGER 72 HOURS BEFORE THE BEGINNING OF EACH PHASE OF CONSTRUCTION.
- 2. ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND MASTER SPECIFICATIONS AND DESIGN STANDARDS FOR DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT "POTABLE WATER MAIN, GRAVITY SANITARY SEWER, AND SANITARY SEWER AND FORCE MAIN DESIGN STANDARDS. IN ADDITION TO APPLICABLE STATE, FEDERAL, AND LOCAL CODES, ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE UNLESS PREVIOUSLY OBTAINED BY DWM.
- 3. DEVIATION FROM THESE PLANS WITHOUT THE PRIOR CONSENT OF DWM OR HIS REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.
- 4. IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, HAVE REPLACED OR REPAIRED THE UTILITIES TO THEIR ORIGINAL OR BETTER CONDITION AND QUALITY, AS APPROVED BY THE REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY.
- 5. CONTRACTOR IS TO MEET ALL LOCAL UTILITY COMPANY REGULATIONS IN ANY FIELD ADJUSTMENT OR RELOCATION OF EXISTING SERVICES.
- 6. CONTRACTOR SHALL ADJUST NEW PIPELINE LOCATION BASED ON FIELD CONDITIONS AND FIELD INSPECTOR REQUIREMENTS. ANY ADJUSTMENTS TO THE NEW PIPELINE LOCATION REQUIRE REVIEW AND APPROVAL FROM DWM AND DESIGN ENGINEER.
- 7. ALL EXISTING UTILITY LOCATIONS SHOWN, HORIZONTAL AND VERTICAL ARE APPROXIMATE. CONTRACTOR TO CONFIRM LOCATIONS PRIOR
- 8. INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO AND CONCURRENT WITH LAND DISTURBING ACTIVITIES. ALL EROSION AND CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE INSPECTED REGULARLY USING THE EROSION AND SEDIMENT CONTROL CHECKLIST. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY THE OWNER.
- 9. DRAINAGE SYSTEMS SHALL BE MAINTAINED, KEPT FREE OF DEBRIS, AND IN OPERATING CONDITION AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. THIS MAY INCLUDE, BUT NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR RE-GRADED AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- 10. ALL SIGNS, MAILBOXES, FENCING, LANDSCAPING, ETC. SHALL BE PROTECTED DURING CONSTRUCTION. SHOULD IT BE REQUIRED TO REMOVE OR DISTURB SUCH ITEMS, THE CONTRACTOR SHALL SEEK APPROVAL FROM THE OWNER FIRST AND IF APPROVED, THE REMOVAL OR DISTURBANCE OF SUCH ITEMS WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER. SHOULD THE OWNER DEEM ANY ITEMS AS DAMAGED, THE CONTRACTOR SHALL REPLACE THE ITEM IN LIKE AND KIND AT NO ADDITIONAL EXPENSE TO DEKALB COUNTY. TRANSPLANTED AND/OR REPLACED ITEMS SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR AFTER WORK IS COMPLETED. TRAFFIC CONTROL SIGNS AND MAIL BOXES SHALL BE REPLACED THE DAY OF THEIR REMOVAL.
- 11. CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT THAT SHALL BE APPROVED BY THE ENGINEERING CONSTRUCTION MANAGER/PROJECT MANAGER PRIOR TO USE. ALL SPOIL MATERIALS, REFUSE, AND DEBRIS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND LEGALLY DISPOSED OF AT AN APPROPRIATE OFFSITE LOCATION. BURNING OF REFUSE, DEBRIS, OR SPOIL MATERIAL AT THE PROJECT SITE IS NOT ALLOWED.
- 12. ALL PROJECT SITE AREAS DISTURBED BY CONTRACTOR OPERATIONS SHALL BE STABILIZED WITH PERMANENT GRASSING UNLESS OTHERWISE NOTED. PERMANENT GRASSING SHALL BE SOD UNLESS OTHERWISE SPECIFICALLY NOTED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE OWNER. ANY AREAS OUTSIDE THE PROJECT SITE AREA THAT ARE DISTURBED SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR.
- 13. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRAVEL, PAVED, OR CONCRETE ENTRANCES, DRIVES, DRIVEWAYS, AND APRONS TO PRECONSTRUCTION CONDITIONS AND IN ACCORDANCE WITH APPLICABLE DOT AND DEKALB COUNTY STANDARDS AND REQUIREMENTS.
- 14. THE SIZE, TYPE, MATERIALS, AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE BASED THE BEST AVAILABLE INFORMATION. SUBSURFACE UTILITY INFORMATION SHOWN IS APPROXIMATE ONLY AND NO GUARANTEE IS MADE THAT ALL UTILITIES AND OTHER FEATURES ARE REPRESENTED ON THE PLANS ARE CORRECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION AND SIZE OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- 15. IF THE CONTRACTOR ENCOUNTERS SUBSURFACE CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER. NO EXISTING UTILITY SHALL BE DISTURBED WITHOUT PROPERTY AUTHORITY AND THEN ONLY IN SUCH A MANNER AS PRESCRIBED AND APPROVED BY THE OWNER OF THE EXISTING UTILITY.
- 16. SHOULD IT BECOME NECESSARY TO DISTURB AN EXISTING UTILITY, THE CONTRACTOR IS TO NOTIFY THE OWNER AND THE OWNER OF THE UTILITY WHEN NECESSARY. CONTRACTOR IS TO CEASE WORK UNTIL SATISFACTORY ARRANGEMENTS HAVE BEEN MADE WITH THE UTILITY OWNER TO PROPERLY CARE FOR AND RELOCATE THE UTILITY. NO CLAIMS SHALL BE ALLOWED THE CONTRACTOR ON ACCOUNT OF ANY DELAY OCCASIONED THEREBY.
- 17. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EITHER THE CONTRACTOR OR UTILITY OWNER WILL PERFORM THE REPAIR AT THE DISCRETION OF THE UTILITY OWNER. NO CLAIMS FOR DAMAGES SHALL BE ALLOWED THE CONTRACTOR ON ACCOUNT OF ANY DELAY OCCASIONED THEREBY.
- 18. THE CONTRACTOR SHALL PROVIDE ALL PIPE FITTINGS AND APPURTENANCES REQUIRED FOR THE COMPLETE INSTALLATION OF THE PROPOSED PIPELINE, WHETHER OR NOT SUCH ITEMS ARE SHOWN OR CALLED OUT ON THE PLANS. THE CONTRACTOR IS ADVISED THAT FIELD ADJUSTMENTS MAY BE REQUIRED BASED ON ACTUAL SUBSURFACE CONDITIONS AND LOCATIONS OF EXISTING BURIED UTILITIES ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT RECEIVE ANY ADDITIONAL PAYMENT OR TIME EXTENSION FOR ITEMS NOT BEING SHOWN IN PLANS OR FOR FIELD ADJUSTMENTS MADE DUE TO ACTUAL SUBSURFACE CONDITIONS AND UTILITY LOCATION.
- 19. AT COMPLETION OF CONSTRUCTION, ALL VALVE BOXES, METERS, AND APPURTENANCES SHALL BE SET FOR PROPER FINISH GRADE.
 PRECAST STRUCTURES, MANHOLE FRAMES AND COVERS ARE TO BE SET FLUSH WITH FINISHED GRADE UNLESS OTHERWISE INDICATED IN
 THE PLANS OR SPECIFICATIONS.

ADDITIONAL NOTES

- 1. THE CONTRACTOR IS REQUIRED TO PERFORM PRE-CONSTRUCTION VIDEO OF THE ENTIRE CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGED PROPERTY WITHIN THEIR CONSTRUCTION AREA THAT DIFFERS OR IS NOT SHOWN ON THE PRE-CONSTRUCTION VIDEO.
- 2. TRENCH DEWATERING DIRECTLY INTO A STREAM IS PROHIBITED. ALL DEWATERING MUST BE FILTERED THROUGH METHODS DEFINED IN THE MANUAL FOR SEDIMENT AND EROSION CONTROL IN GEORGIA, LATEST EDITION.
- CONTRACTOR IS RESPONSIBLE FOR THE HORIZONTAL/VERTICAL LOCATING OF EXISTING UTILITIES (INCLUDING ANY UTILITIES NOT SHOWN ON PLANS) AND MAINTAINING UTILITY SERVICES AND SHALL REPAIR AND/OR REPLACE ANY DAMAGED SERVICES AS SOON AS POSSIBLE.
- 4. STORM WATER MANAGEMENT FOR THIS PROJECT IS PROVIDED ON-SITE. STORM WATER MANAGEMENT FOR THIS PROJECT CONSISTS OF TEMPORARY EROSION AND SEDIMENT CONTROLS TO BE INSTALLED DURING THE PROPOSED WORK. AT THE COMPLETION OF THE PROJECT THE TEMPORARY MEASURE SHALL BE REMOVED.
- 5. THERE SHALL BE NO INCREASE IN FLOWS OR COMPENSATION IN OTHER DRAINAGE AREAS, WHICH RESULT IN AN INCREASED PEAK DISCHARGE ONTO ADJACENT PROPERTY
- 6. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE SAFETY AS WELL AS THE WAYS, MEANS AND METHODS OF CONSTRUCTION.
- 7. WHERE CONCRETE IS USED FOR BLOCKING, SUPPORTING, BACKFILLING, OR ANY APPLICATION WHERE IT MAY CONTACT PROPOSED OR EXISTING FITTINGS OR VALVES, THE FITTING OR VALVE SHALL BE WRAPPED IN POLYETHYLENE TO PREVENT BONDING.
- 8. ALL VALVES SHALL BE PROVIDED WITH VALVE BOX AND SHALL BE MARKED BY CONCRETE VALVE MARKERS.
- 9. CONTRACTOR SHALL PROVIDE PROPER RESTRAINT NECESSARY FOR PRESSURE TESTING.
- 10. WATER AND SEWER FEES NEED TO BE PAID BY THE CONTRACTOR UNDER THE FOLLOWING CIRCUMSTANCES: NEW CONSTRUCTION, REDEVELOPMENT, ADDITIONS, CHANGE OF USE, ETC. CONTRACTOR TO DETERMINE COST PRIOR TO BID AND INCLUDE INCIDENTAL TO THE WORK. THESE FEES ARE PAID AT 330 W. PONCE DE LEON AVENUE, 2ND FLOOR. FAILURE TO SETTLE THESE FEES SHALL RESULT IN DELAYS FOR OBTAINING WATER AND SEWER APPROVAL. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
- 11. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DWM ENGINEER / PROJECT MANAGER BEFORE CHANGES ARE IMPLEMENTED.
- 12. ALL ITEMS WHICH MUST BE REMOVED DURING CONSTRUCTION AND ARE NOT SPECIFICALLY SHOWN TO BE PAID FOR OTHERWISE, SHALL BE REMOVED AND PAID FOR IN THE UNIT PRICE BID FOR WATER MAIN. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION.
- 13. CONTRACTOR TO SEQUENCE WATER MAIN INSTALLATION SO AS NOT TO DAMAGE EXISTING UTILITIES AND/OR DISRUPT EXISTING SERVICE.
- 14. THE CONTRACTOR IS TO MAINTAIN COMPLETE RECORDS AS LINE-WORK PROGRESSES AND SUBMIT WITH MONTHLY PAY APPLICATION.
- 15. USE BEDDING AS RECOMMENDED PER STANDARD. BEDDING SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT. COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR WATER MAINS. NO CLAIM WILL BE CONSIDERED FOR EXTRA COMPENSATION.
- 16. THE CONTRACTOR IS REQUIRED TO NOTIFY, IN ADVANCE IN WRITING, ALL RESIDENTS IN THE AREA AFFECTED BY THE WORK TO BE PERFORMED. THE NOTICE SHALL SHOW THE STARTING AND FINISHING DATES.
- 17. PLUG OF EXISTING WATER MAINS SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT. COST SHALL BE INCLUDED IN OTHER WORK. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION.
- 18. ALL PROPOSED PIPE AND FITTINGS SHALL HAVE RESTRAINED JOINTS. THRUST BLOCKS ARE REQUIRED AT CONNECTIONS TO EXISTING WATER MAINS AS SHOWN OR WHERE UNBALANCED FORCES ARE PRESENT.
- 19. ALL MANHOLES LOCATED WITHIN ROADWAYS SHALL BE INSTALLED WITH CONCRETE COLLARS AND TRAFFIC RATED MANHOLE FRAMES AND COVERS PER GDOT
- 19. ALL MANHOLES LOCATED WITHIN ROADWAYS SHALL BE INSTALLED WITH CONCRETE COLLARS AND TRAFFIC RATED MANHOLE FRAMES AND COVERS PER GDOT STANDARDS.

TRAFFIC CONTROL NOTES

1. ALL CONSTRUCTION IS TO BE PERFORMED WITHIN THE CURRENT APPLICABLE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES - PART 6 - TEMPORARY TRAFFIC CONTROL AND GDOT PLAN SPECIFICATIONS.

2. ALL TRAFFIC CONTROL DEVICES SHALL AS APPROVED BY DEKALB COUNTY. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY DEKALB COUNTY WITHIN THE DEPARTMENT OF WATERSHED MANAGEMENT.

3. TRAFFIC CONTROL PLAN, SIGNAGE PLAN, DETOUR PLAN, ALL RELATED DRAINAGE, DETAILS AND OTHER REQUIREMENTS SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL OF ALL TRAFFIC MANAGEMENT PLANS FROM APPLICABLE AGENCIES PRIOR TO CONSTRUCTION.

- 4. ACCESS SHALL BE MAINTAINED AT ALL TIMES TO SIDE STREETS AND DRIVEWAYS.
- 5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE POSITIVE DRAINAGE AT ALL TIMES.

6. WHEN THE CONSTRUCTION AREA HAS INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.

7. WORK SPACE SHALL BE LIMITED TO THE SHORTEST DISTANCE PRACTICAL FOR THE DAY'S CONSTRUCTION ACTIVITY. WORK AREA NOT TO EXCEED 400' UNLESS APPROVED BY DEKALB COUNTY.

- 8. CONTRACTOR TO PROVIDE A MINIMUM OF TWO ELECTRONIC CHANGEABLE MESSAGE SIGNS THROUGHOUT THE PROJECT.
- 9. CONTRACTOR SHALL PROVIDE NIGHT WATCHMAN IF SIGNALS ARE PROVIDED AND PROVIDE FLAG CONTROL, IF NECESSARY.
- 10. CONTRACTOR TO COORDINATE WITH DEKALB COUNTY BOARD OF EDUCATION AND EMERGENCY RESPONSE.
- 11. WHERE FLAGGERS ARE PROVIDED, CONTRACTOR SHALL MAINTAIN A MINIMUM OF TWO CERTIFIED FLAGGERS AT ALL TIMES.
- 12. ON NO OCCASION SHALL TRAFFIC BE DETOURED ONTO RESIDENTIAL SUBDIVISION STREETS.
- 13. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT.
- 14. ROADWAY PAVEMENT SPECIFICATIONS AND CURB AND GUTTER DETAIL MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS.

15. CONTRACTOR IS TO PROVIDE DEKALB COUNTY ENCROACHMENT PERMIT FOR ALL WORK WITHIN THE RIGHT-OF-WAY. ANY TRAFFIC SIGNAL OR UTILITY RELOCATIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

16. ALL UTILITY LOCATES AND RELOCATIONS AND/OR DAMAGE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST CONTACT DEKALB COUNTY LOCATE PERSONNEL DIRECTLY FOR THE TRAFFIC SIGNAL LOCATES.

- 17. CONTRACTOR TO MAINTAIN SIDEWALK CONTINUITY THROUGHOUT THE CONSTRUCTION ZONE. SIGNAGE TO BE PROVIDED THROUGH MUTCD PART VI.
- 18. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL DAMAGED TRAFFIC SIGNAL LOOPS.
- 19. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF CURB AND GUTTER THAT IS DAMAGED DURING CONSTRUCTION.
- 20. ALL STRIPING MUST BE REPLACED WITH LIKE STRIPING (E.G. THERMOPLASTIC WITH THERMOPLASTIC).

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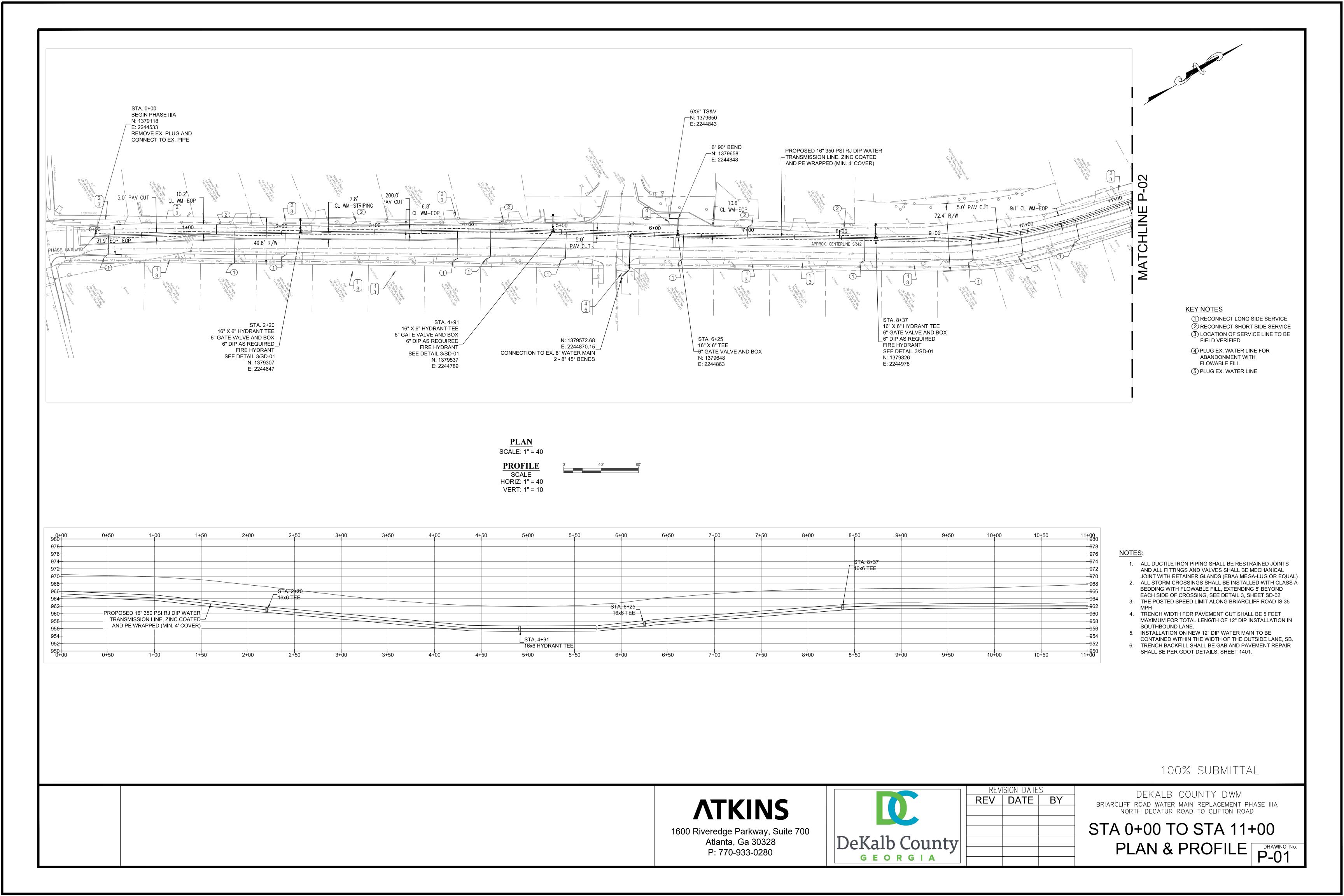
DEKALB COUNTY DWM

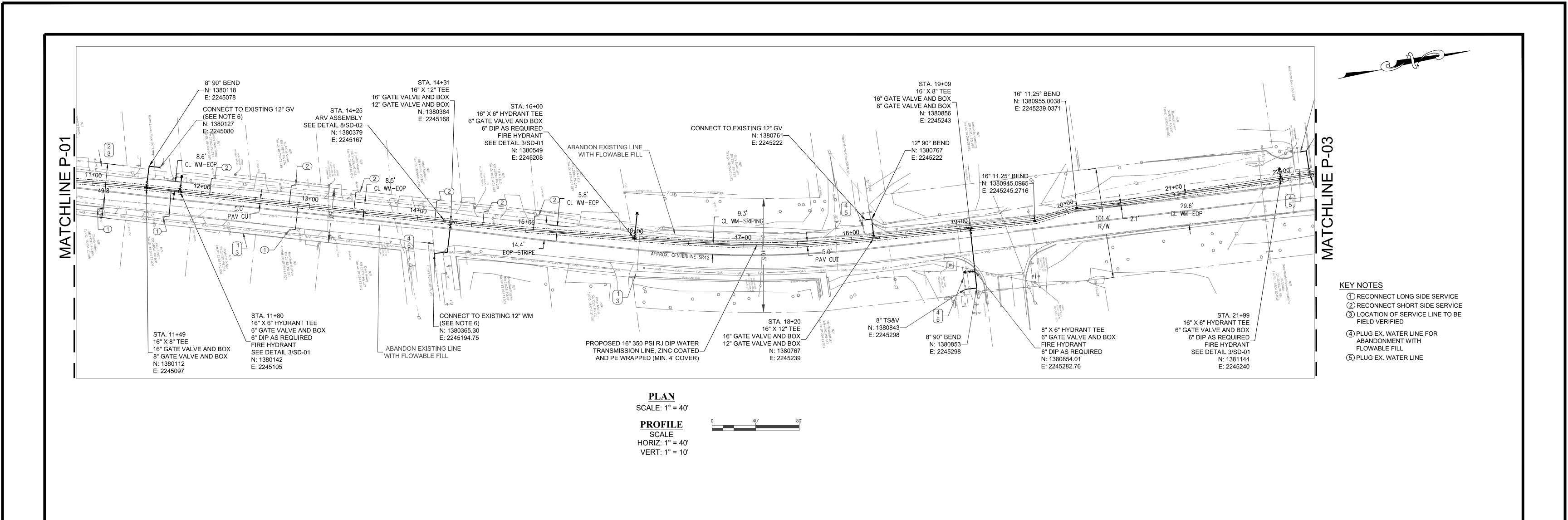
BRIARCLIFF ROAD WATER MAIN REPLACEMENT PHASE IIIA

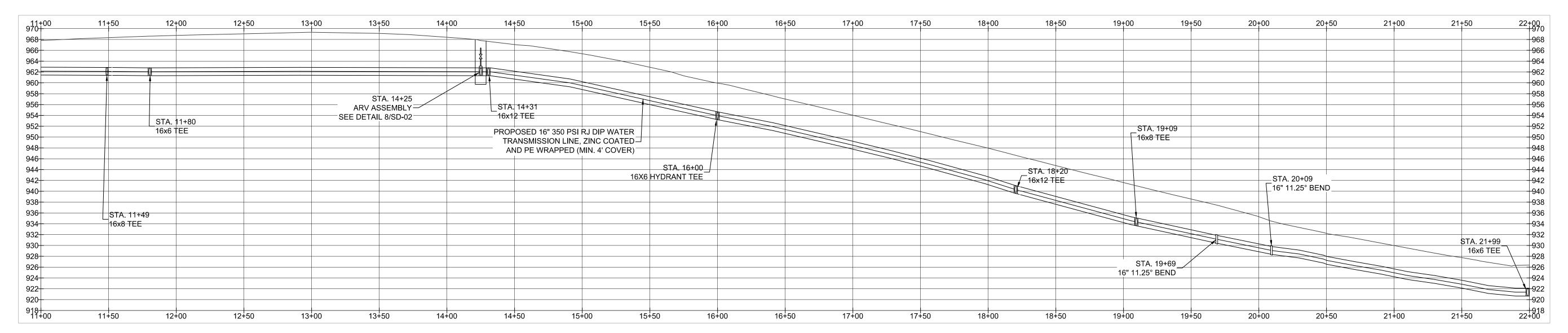
NORTH DECATUR ROAD TO CLIFTON ROAD

GENERAL NOTES

G-02







NOTES:

- ALL DUCTILE IRON PIPING SHALL BE RESTRAINED
 JOINTS AND ALL FITTINGS AND VALVES SHALL BE
 MECHANICAL JOINT WITH RETAINER GLANDS (EBAA)
- MEGA-LUG OR EQUAL)

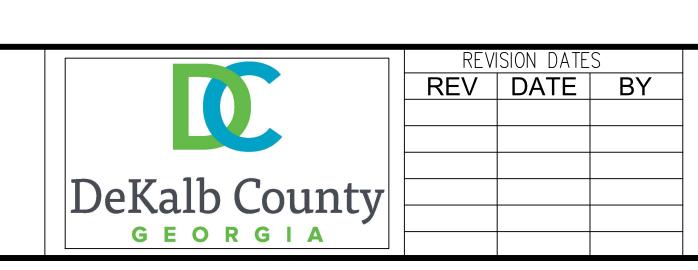
 2. ALL STORM CROSSINGS SHALL BE INSTALLED WITH
 CLASS A BEDDING WITH FLOWABLE FILL, EXTENDING 5'
 BEYOND EACH SIDE OF CROSSING, SEE DETAIL 3, SHEET
 SD-02
- 3. THE POSTED SPEED LIMIT ALONG BRIARCLIFF ROAD IS
- 4. TRENCH WIDTH FOR PAVEMENT CUT SHALL BE 5 FEET MAXIMUM FOR TOTAL LENGTH OF 12" DIP INSTALLATION
- IN SOUTHBOUND LANE.5. INSTALLATION ON NEW 12" DIP WATER MAIN TO BE CONTAINED WITHIN THE WIDTH OF THE OUTSIDE LANE,
- SB.
 6. CONTRACTOR TO INVESTIGATE EXIST VALVE & PIPE SIZE AND ADJUST TIE-IN SIZE & PIPE ACCORDINGLY
- SIZE AND ADJUST TIE-IN SIZE & PIPE ACCORDINGLY TRENCH BACKFILL SHALL BE GAB AND PAVEMENT REPAIR SHALL BE PER GDOT DETAILS, SHEET 1401.

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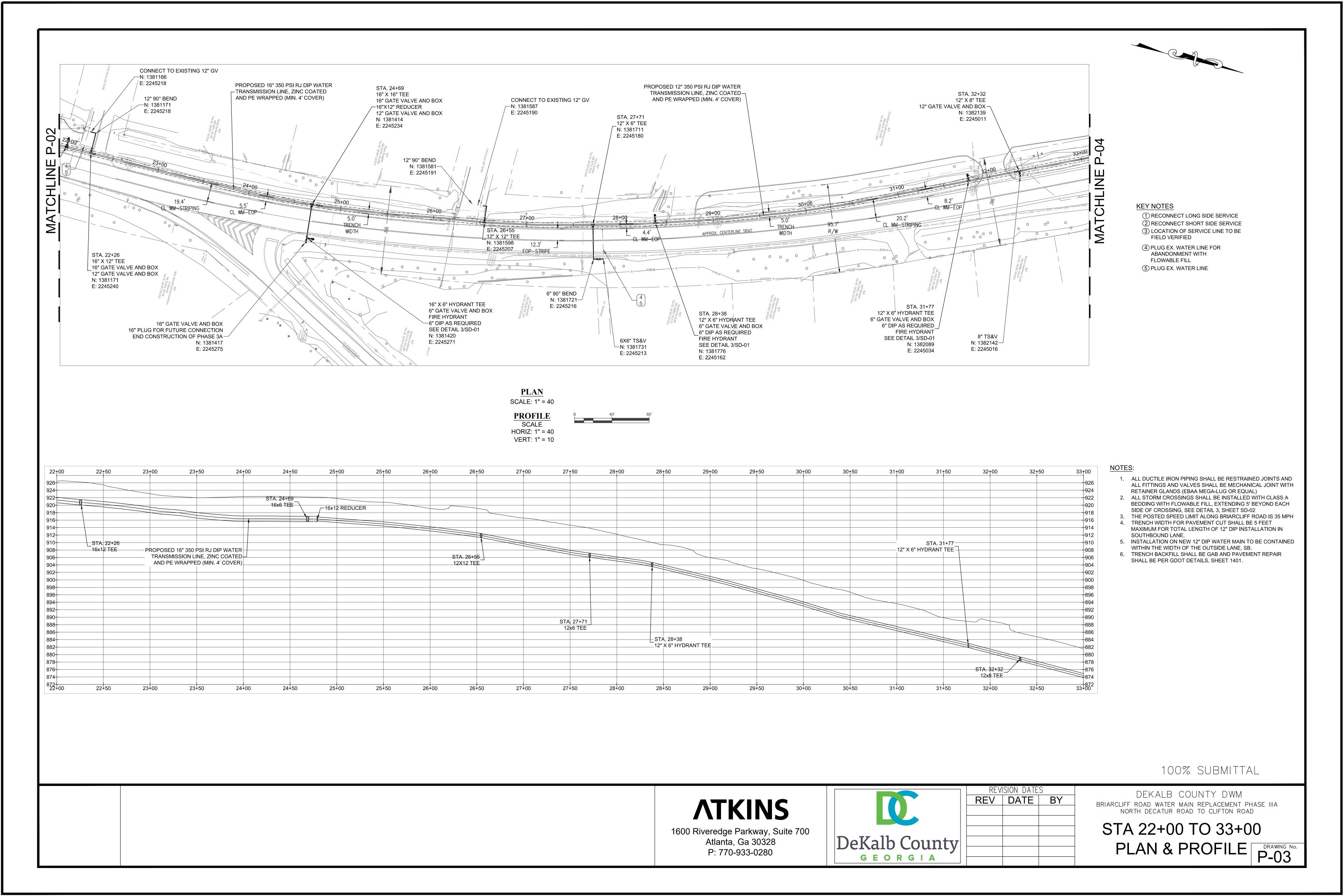


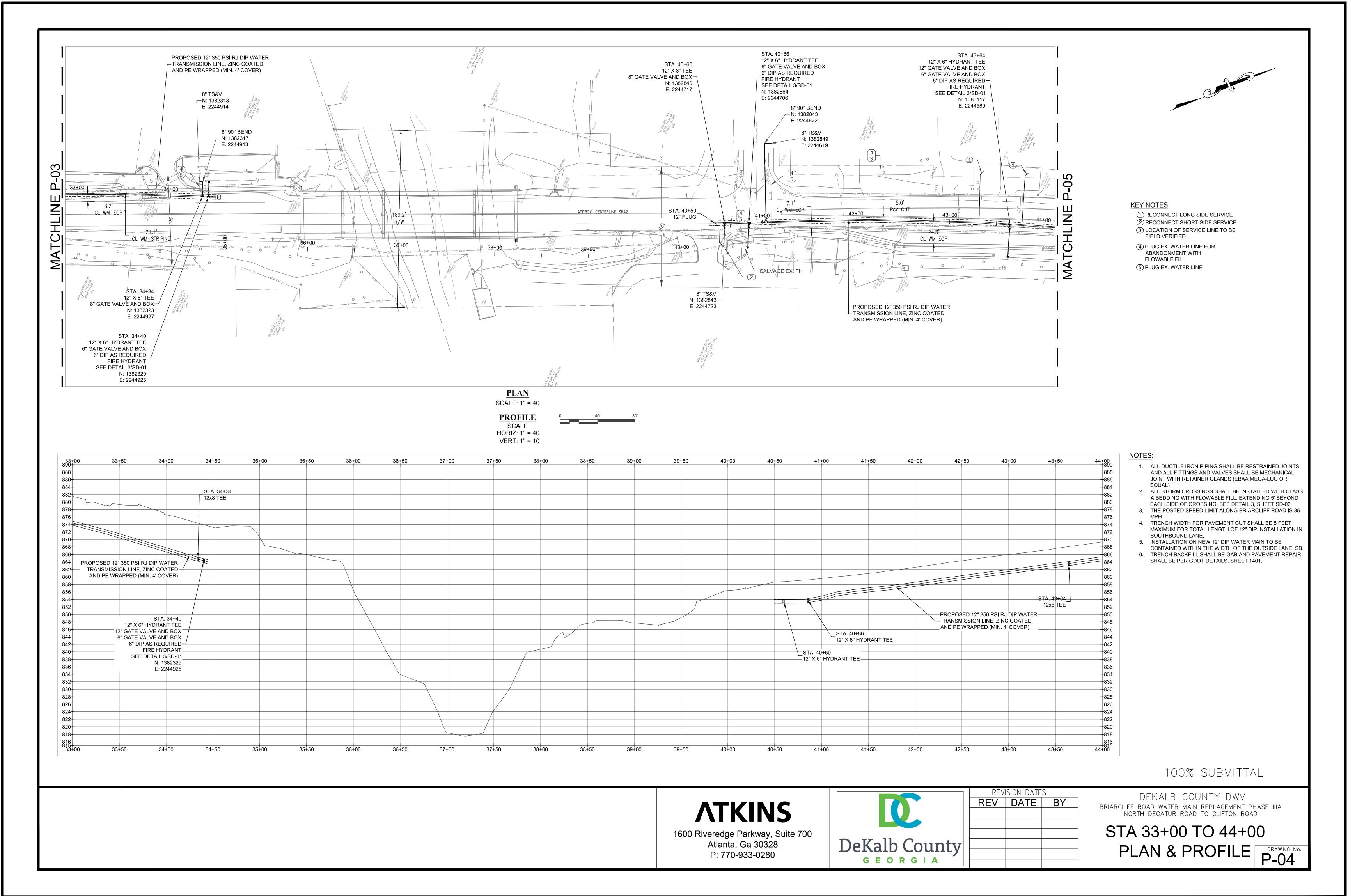
DEKALB COUNTY DWM

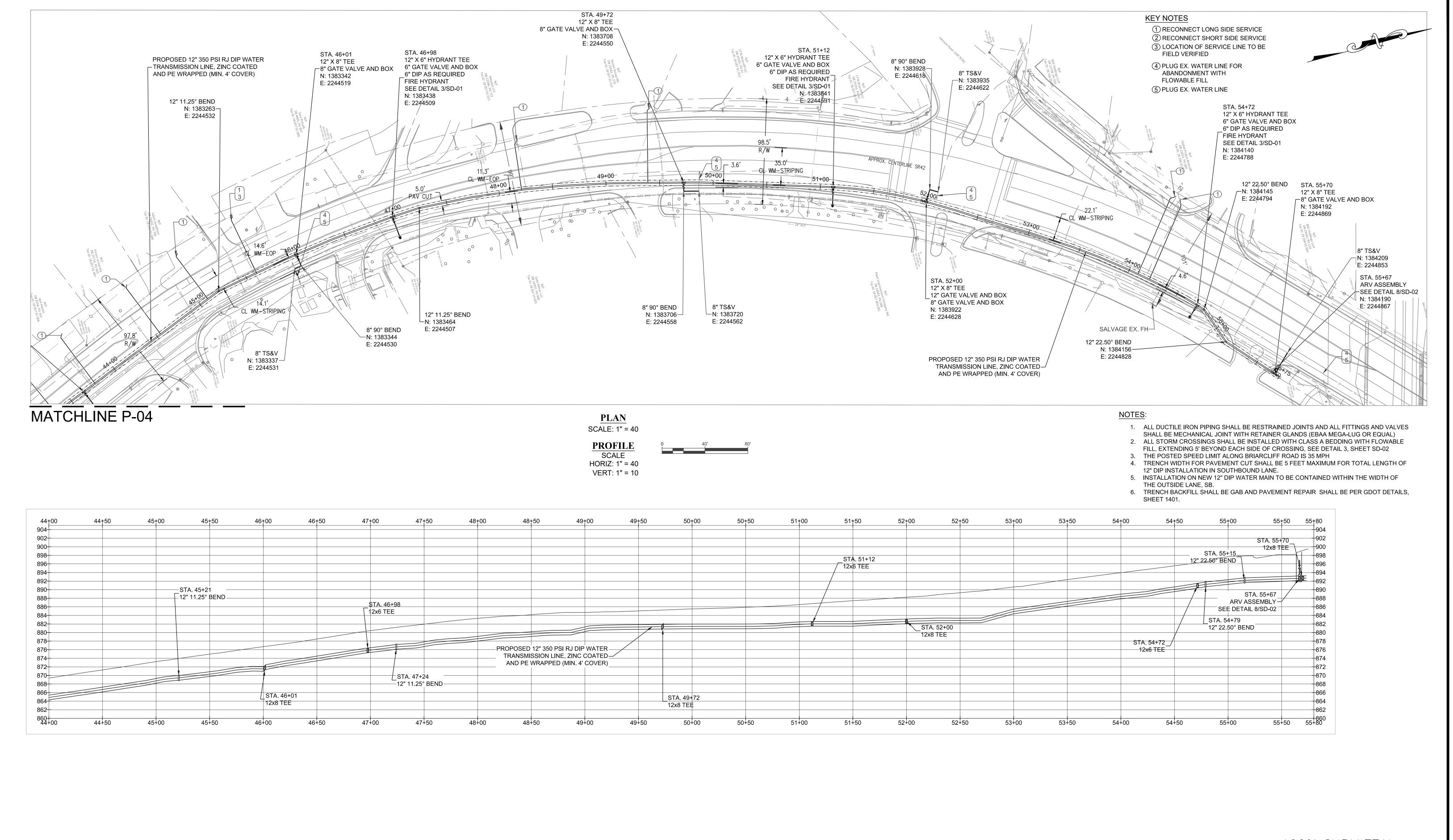
BRIARCLIFF ROAD WATER MAIN REPLACEMENT PHASE IIIA

NORTH DECATUR ROAD TO CLIFTON ROAD

STA 11+00 TO 22+00
PLAN & PROFILE P-02



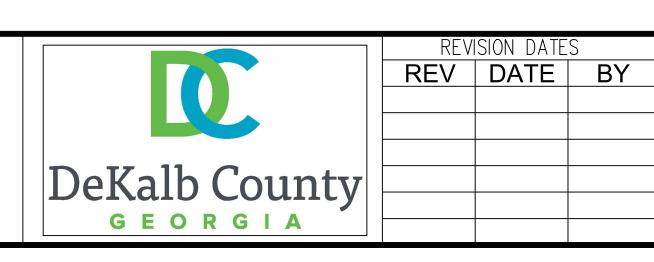




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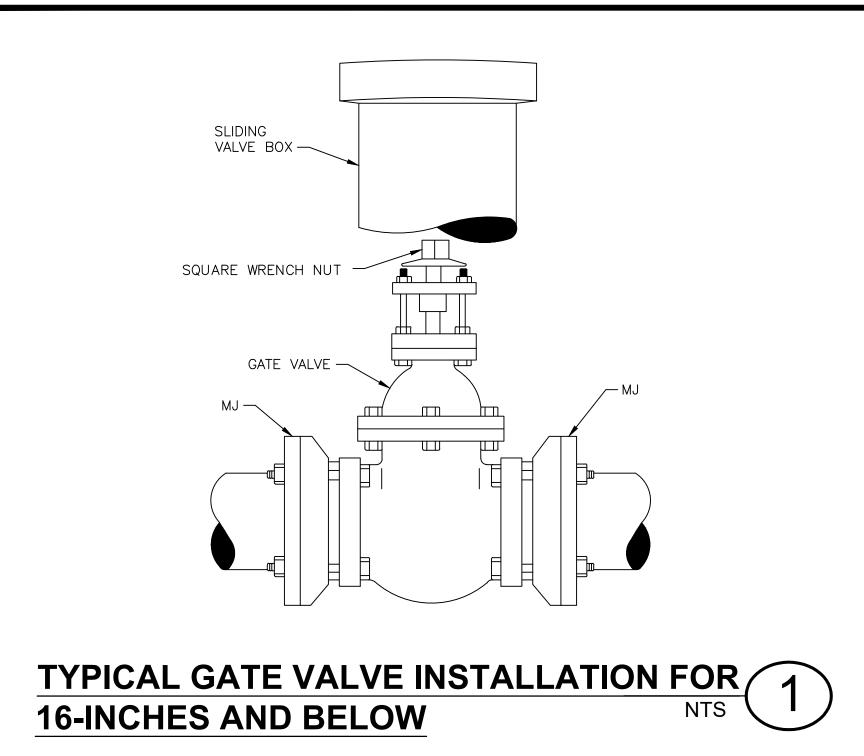


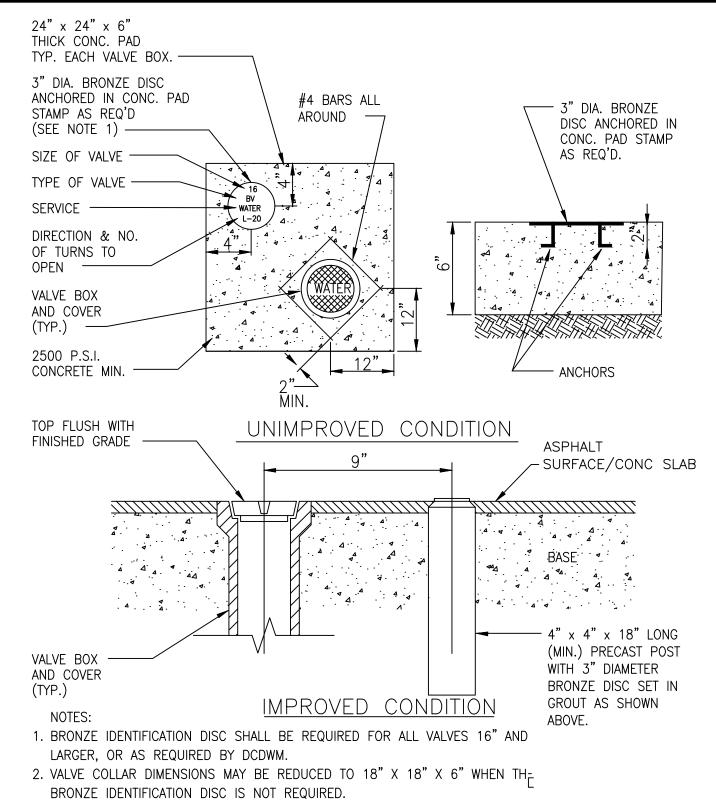
DEKALB COUNTY DWM

BRIARCLIFF ROAD WATER MAIN REPLACEMENT PHASE IIIA

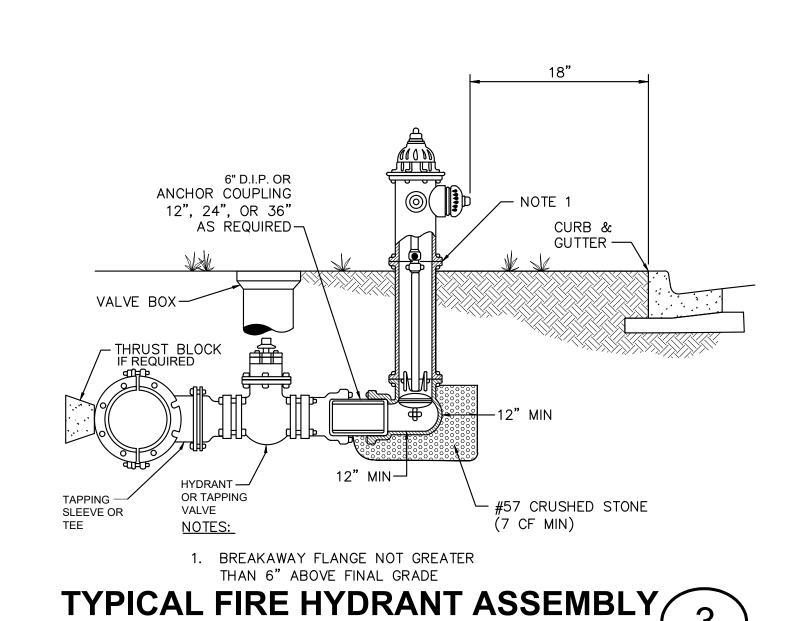
NORTH DECATUR ROAD TO CLIFTON ROAD

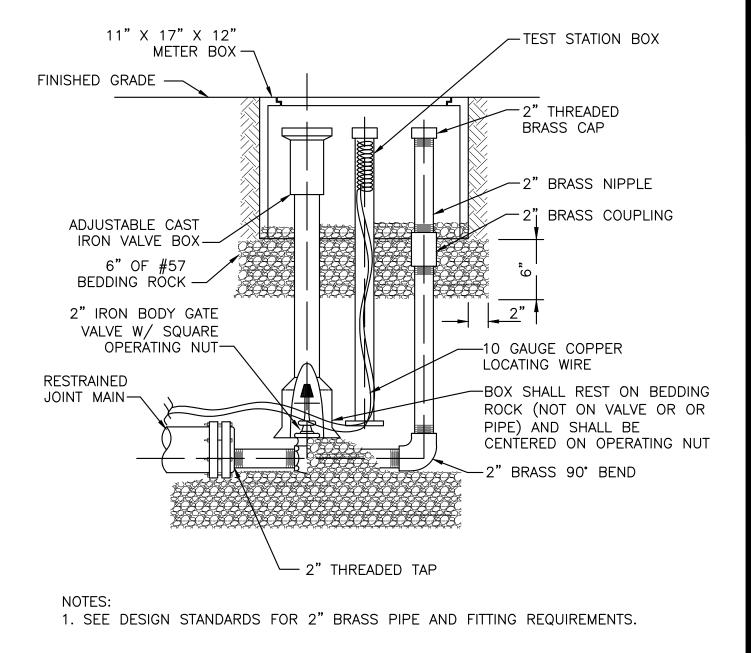
STA 44+00 TO 55+00
PLAN & PROFILE P-05



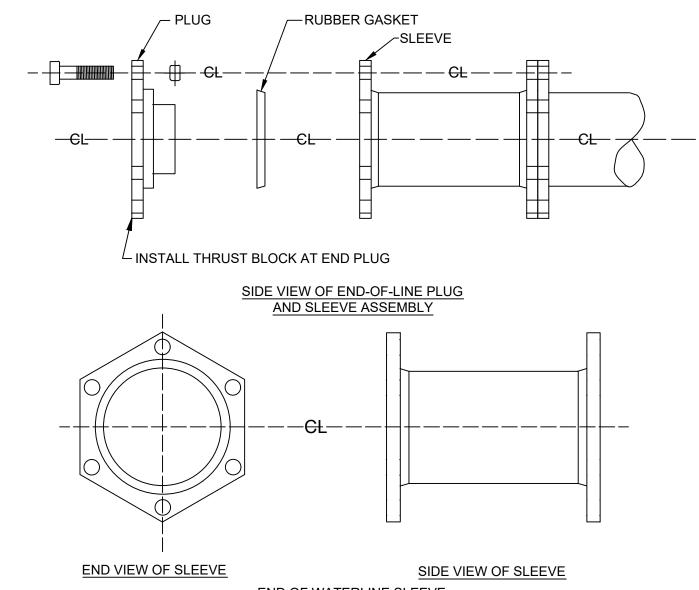


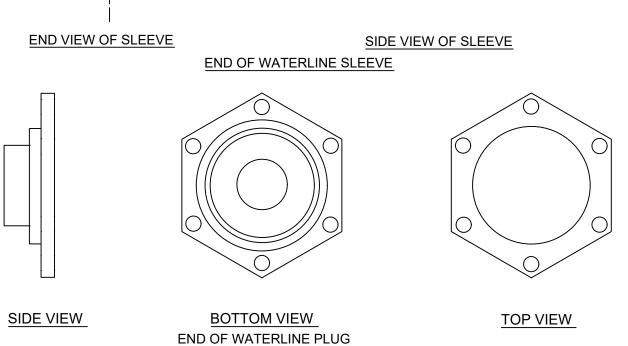
VALVE COVER AND MARKER DISC

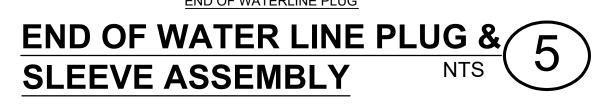


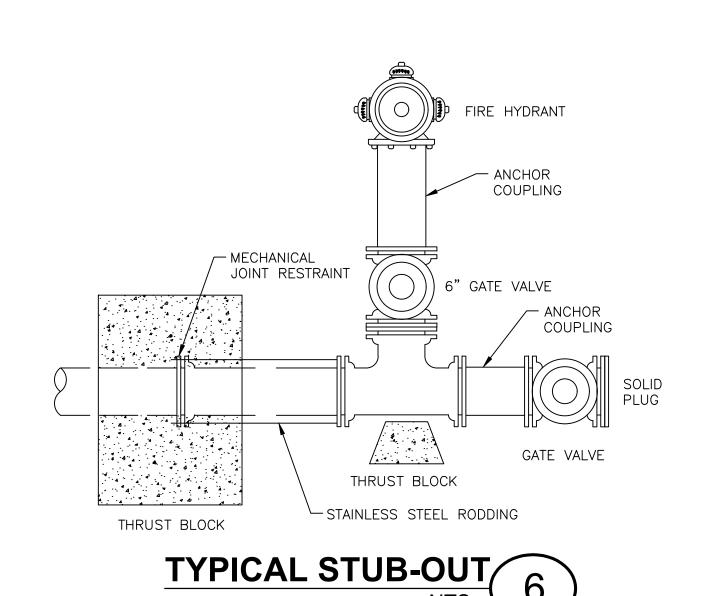


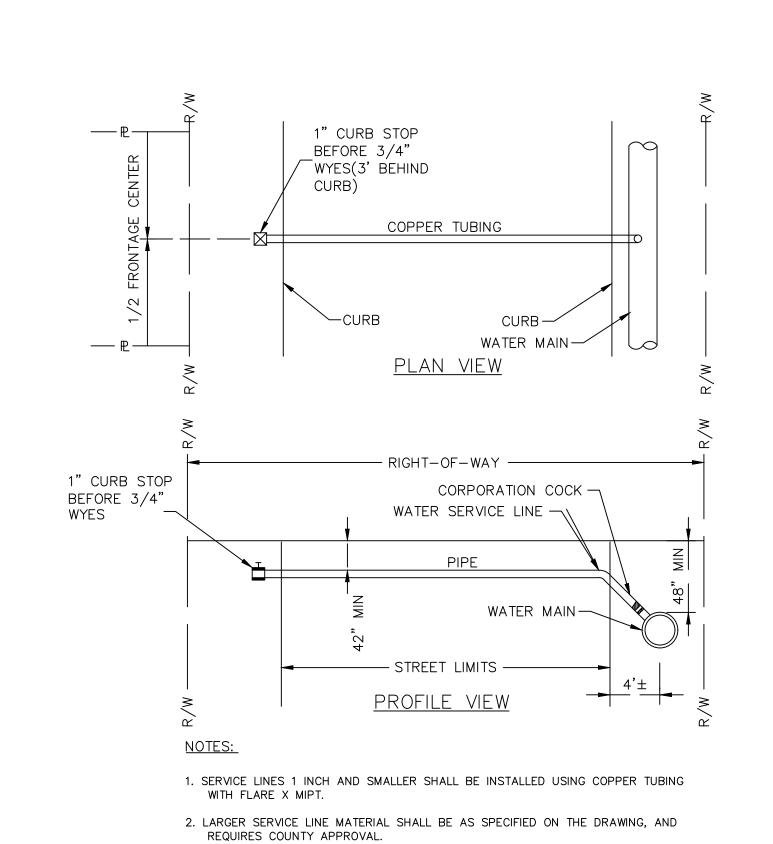
TYPICAL BLOW-OFF DETAIL



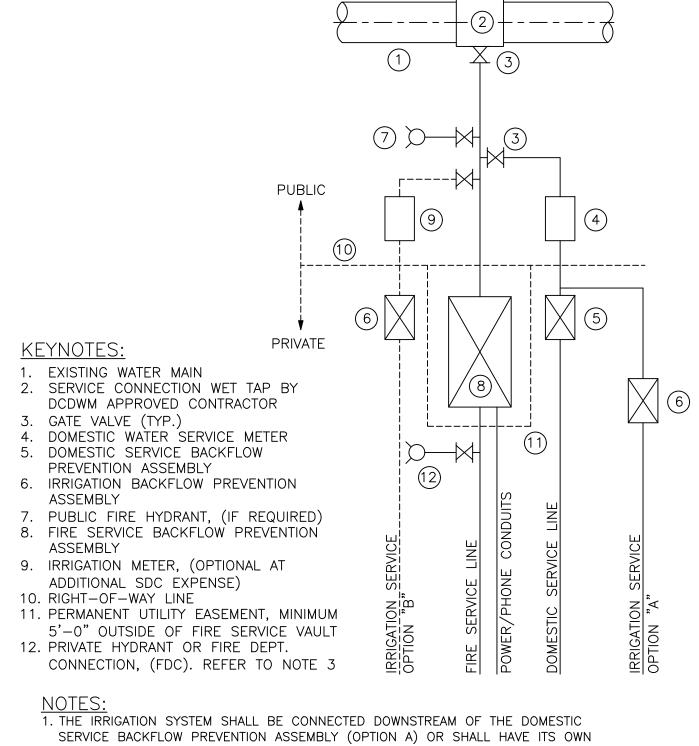








TYPICAL SERVICE LINE INSTALLATION 7



METER AND BACKFLOW ASSEMBLY (OPTION B).

2. DOMESTIC AND FIRE SERVICE LINES 3" AND LARGER SHALL BE DUCTILE IRON.
3. PRIVATE FDC OR HYDRANT MUST BE LOCATED ON THE CUSTOMER SIDE OF BACKFLOW DEVICE.

TYPICAL COMMERCIAL / INDUSTRIAL SERVICE LAYOUT 8

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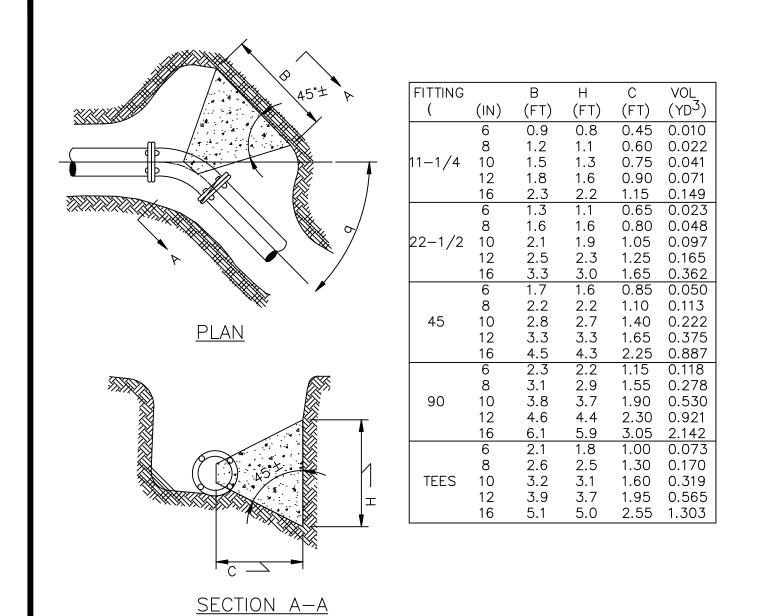


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DEKALB COUNTY DWM BRIARCLIFF ROAD WATER MAIN REPLACEMENT PHASE IIIA NORTH DECATUR ROAD TO CLIFTON ROAD

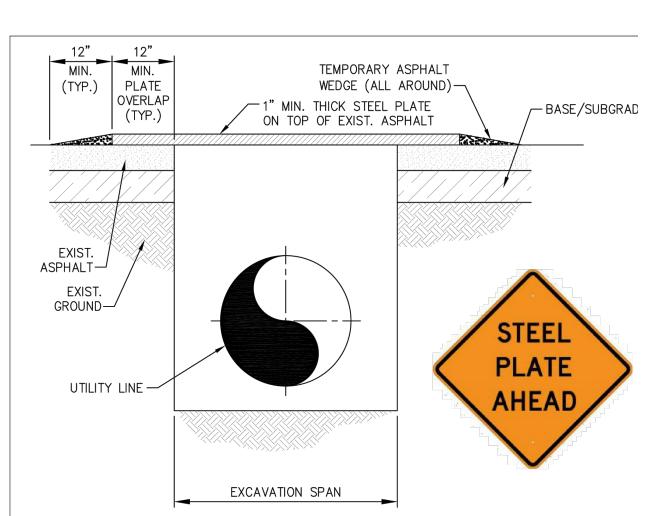
> STANDARD **DETAILS**

DRAWING No. SD-01



- 1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI AND A SOIL BEARING PRESSURE OF 2,000 PSF.
- 2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE
- NOT BE EXCEEDED. . IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO VERIFY THAT THE THRUST BLOCKS IN THE CHART MEET THE REQUIRED FORCES THAT ARE ASSOCIATED WITH THE PROPOSED WATER LINE OR FORCE MAIN.

HORIZONTAL THRUST BLOCK DETAIL



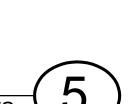
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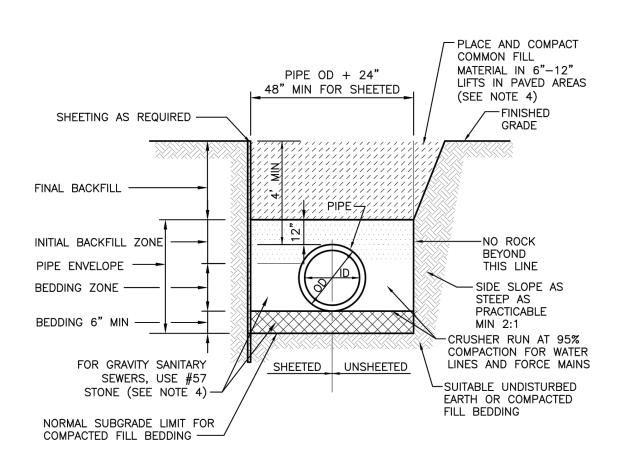
- INSTALLATION SHALL BE USED IN AREAS WHERE BACKFILLING OPERATIONS OF AN EXCAVATION IN THE ROADWAY CANNOT MEET THE MINIMUM COMPACTION REQUIREMENTS AND PERMANENT PATCHING PLACEMENT WITHIN THE SAME DAY.
- ALL EXCAVATIONS SHALL BE BACKFILLED WITHIN THE ROADWAY EACH PLATE IS TO OVERLAP EXISTING PAVEMENT 12" MINIMUM IN EVERY DIRECTION AND MULTIPLE PLATES SHALL ABUT AND BE SECURED TO EACH OTHER.

EACH STEEL PLATE SHALL BE ANCHORED SECURELY TO PREVENT MOVEMEN'

- TEMPORARY PAVING WITH A COLD ASPHALT MIX OR APPROVED EQUAL SHALL BE USED TO FEATHER EDGES OF THE PLATE TO FORM A WEDGED TAPER TO COVER THE EDGES OF THE STEEL PLATE.
- THE STEEL PLATE SHALL BE REMOVED WITHIN 30 DAYS OF PLACEMENT WITH THE EXCAVATION MEETING THE MINIMUM COMPACTION REQUIREMENTS AND PERMANENT PATCHING INSTALLED. ANY DITCH LINE NEEDING A STEEL PLATE LONGER THAN 30 DAYS SHALL REQUIRE
- DCDWM'S WRITTEN APPROVAL. WARNING SIGNS ADVISING MOTORIST THAT THEY SHOULD EXPECT TO ENCOUNTER STEEL PLATES SHALL BE PLACED APPROXIMATELY 100 FEET IN ADVANCE OF THE STEEL PLATE LOCATION. THE SIGNS SHALL MEET MUTCD SIGN SIZE REQUIREMENTS, SHALL STATE STEEL PLATE AHEAD, AND SHALL BE VISIBLE TO THE MOTORIST.

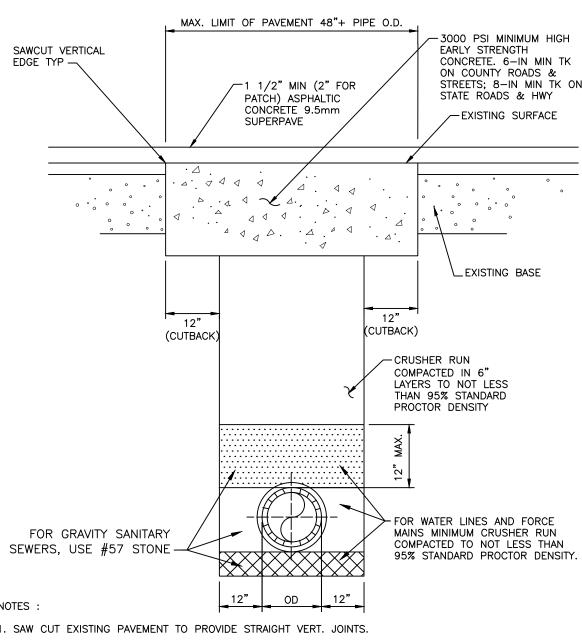
STEEL PLATE **INSTALLATION DETAIL**





- 1. SEE DESIGN STANDARDS FOR ADDITIONAL BEDDING AND TRENCH BACKFILL REQUIREMENTS.
- 2. DEPTH OF COVER OVER WATER MAINS, FORCE MAINS AND GRAVITY SANITARY SEWERS SHALL BE 4'-0" AS MEASURED FROM TOP OF PAVEMENT OR FINISHED GRADE TO TOP OF PIPE.
- 3. NO ROCK, ONLY BEDDING MATERIAL IN BACKFILL FOR FIRST 2'-0" ABOVE TOP OF PIPE.
- 4. BEDDING AND BACKFILL TO BE CRUSHER RUN AT 95% COMPACTION UNDER ALL PAVING FROM 12" ABOVE THE TOP OF PIPE TO THE BOTTOM OF THE CONCRETE ROAD CAP.
- 5. BACKFILL TO BE FREE OF ORGANICS, OBJECTIONABLE MATERIAL AND STONES LARGER THAN 3" IN ITS LONGEST DIMENSION.

BACKFILL AND ALLOWABLE TRENCH WIDTHS DETAIL



1. SAW CUT EXISTING PAVEMENT TO PROVIDE STRAIGHT VERT. JOINTS

2. SURFACES TO BE CLEANED AND BITUMINOUS TACK COAT APPLIED BEFORE PLACEMENT OF ASPHALTIC TOP.

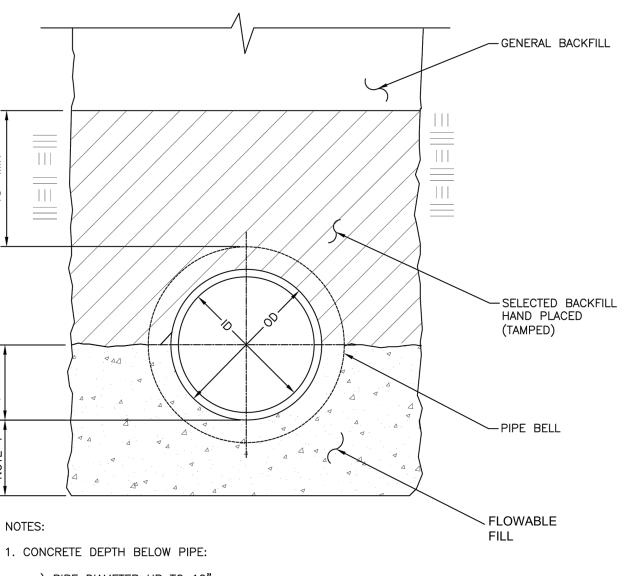
3. FOR EXIST SURFACE OF PORTLAND CEMENT CONCRETE, FURNISH NEW SURFACE OF 3000 PSI MINIMUM HIGH EARLY STRENGTH CONCRETE.

4. ON LONGITUDINAL CUTS EXCEEDING 100 FEET, THE CONC IN THE TRENCH SHALL BE BROUGHT FLUSH WITH THE EXISTING PAVEMENT AND THE ENTIRE WIDTH OF ROADWAY RESURFACED W/ 1-1/2 IN MIN THK OF ASPHALTIC CONC.

TYPICAL PATCH AND

RESURFACING DETAIL





a.) PIPE DIAMETER UP TO 12":

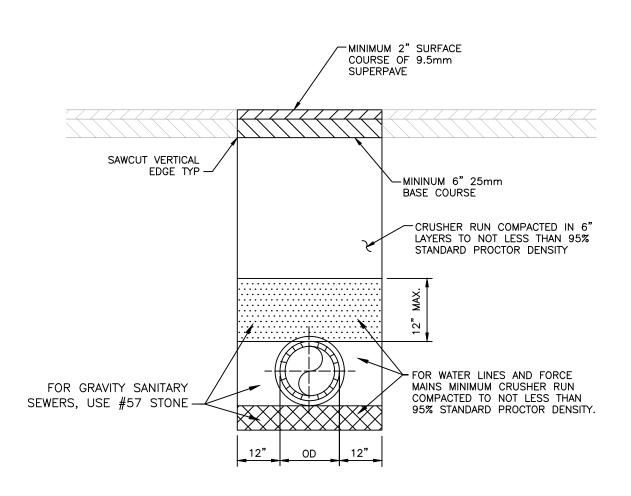
i.) EQUAL TO 1/2 TIMES THE OUTSIDE DIAMETER (OD) ii.) MINIMUM 6"

b.) PIPE DIAMETER GREATER THAN 12":

i.) EQUAL TO 1/4 TIMES THE OUSIDE DIAMETER (OD) ii.) MINIMUM 6"

C.) MAXIMUM 12"

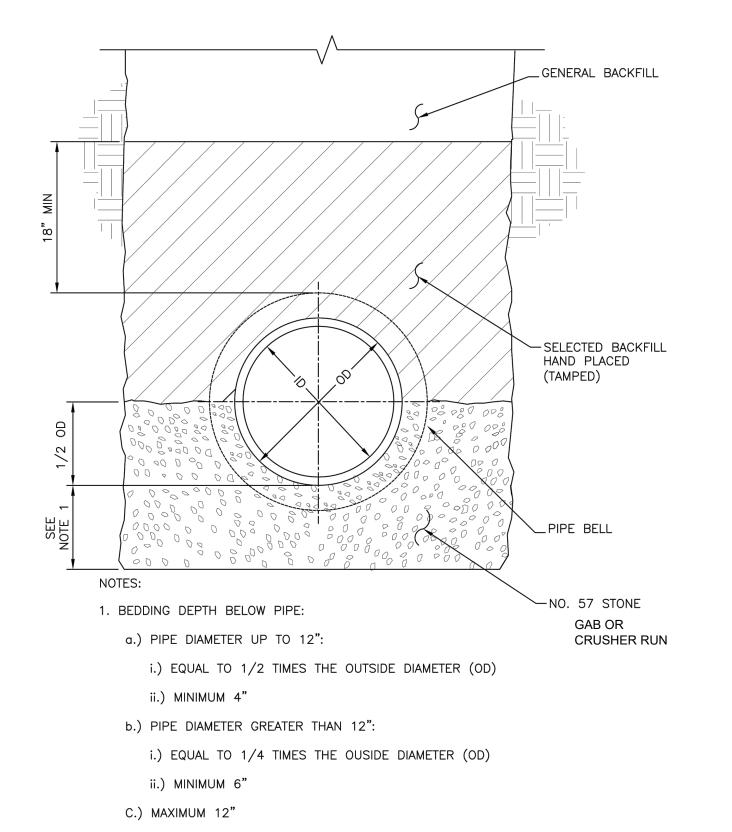
CLASS "A" BEDDING



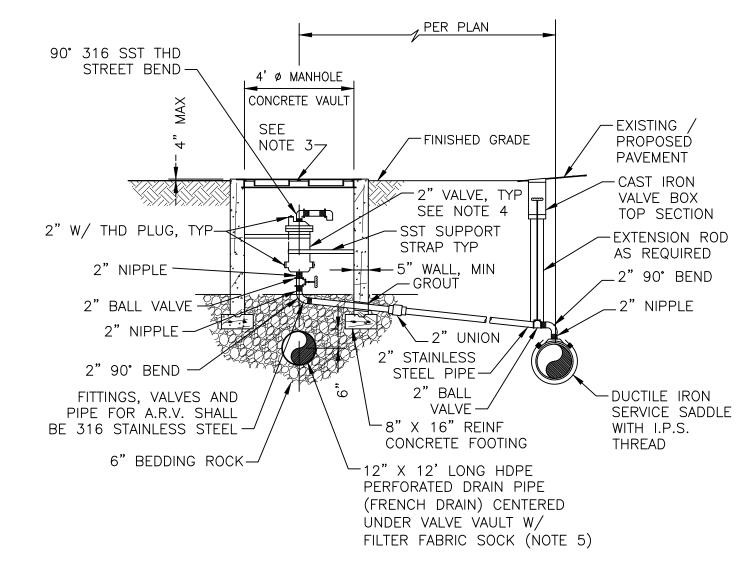
1. SAW CUT EXISTING PAVEMENT TO PROVIDE STRAIGHT VERT. JOINTS. 2. SURFACES TO BE CLEANED AND BITUMINOUS TACK COAT APPLIED BEFORE PLACEMENT OF ASPHALTIC TOP.

3. THIS DETAIL MAY ONLY BE USED WITH DCDWM'S APPROVAL.

TYPICAL ASPHALT PAVEMENT PATCH WITHOUT CONCRETE CAP/



CLASS "A" BEDDING



- 1. ABOVE DETAIL IS BASED ON 2" AIR RELEASE VALVE. CHANGE PIPE AND FITTINGS BY THE DEVELOPER'S ENGINEER AND APPROVED BY DCDWM PRIOR TO INSTALLATION.
- 2. THE MINIMUM DIMENSION FROM THE TOP OF THE WATERMAIN TO FINISHED GRADE SHALL BE 4.0 FEET.
- 3. FRAME AND COVER SHALL BE EQUIVALENT TO U.S. FOUNDRY USF 170-E-ORS. 4. FOR POTABLE WATER AND REUSE WATER MAINS, VALVE SHALL BE APCO #200 (2") OR
- 5. FRENCH DRAIN BEDDING BEYOND VALVE VAULT SHALL CONSIST OF 24" x 24" TRENCH LINED W/ 6" MIN #57 BEDDING AROUND FRENCH DRAIN CENTERED IN TRENCH.

AIR RELEASE VALVE INSTALLATION DETAIL 8

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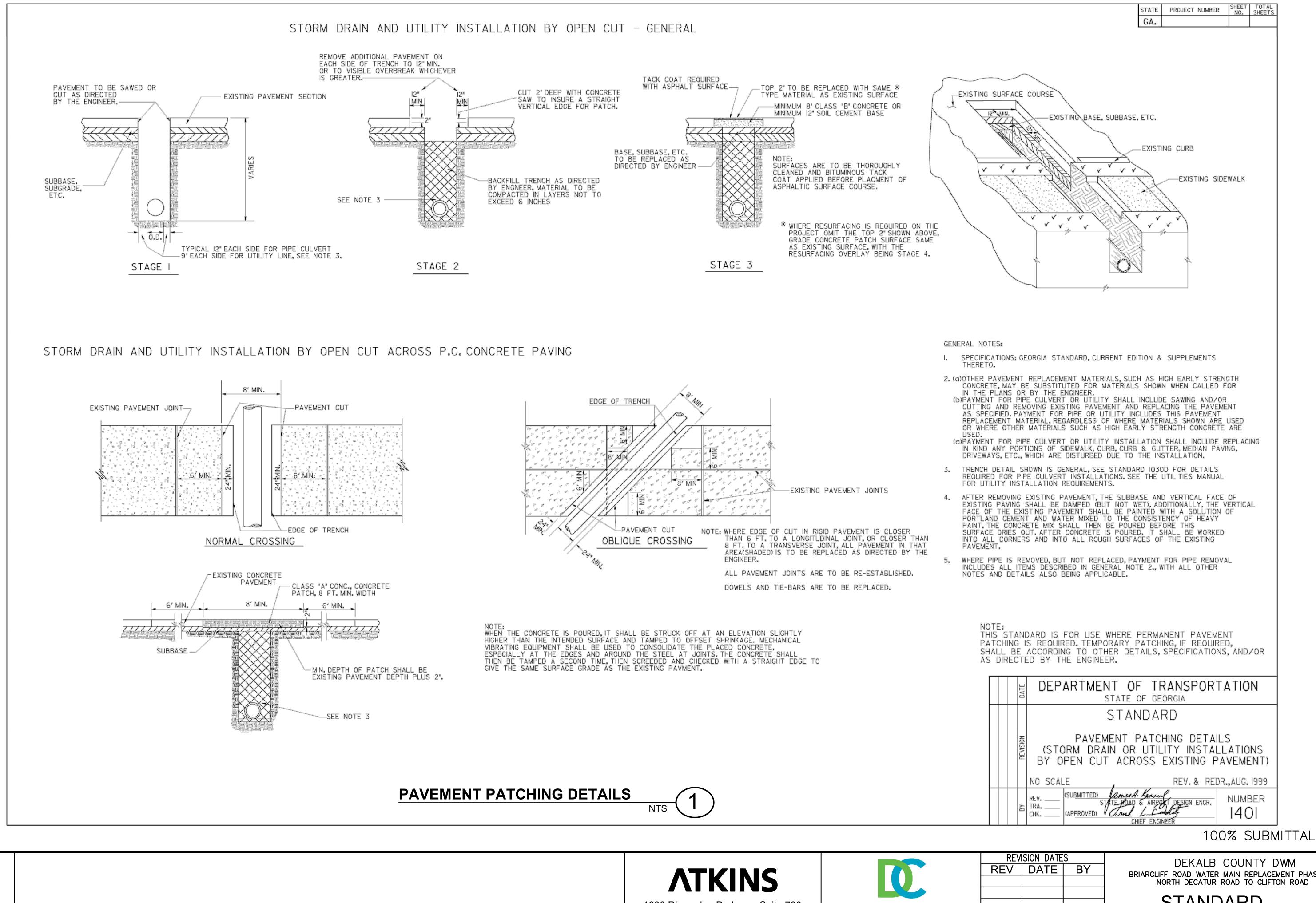


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DEKALB COUNTY DWM BRIARCLIFF ROAD WATER MAIN REPLACEMENT PHASE IIIA NORTH DECATUR ROAD TO CLIFTON ROAD

> STANDARD DETAILS

DRAWING No. SD-02





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BRIARCLIFF ROAD WATER MAIN REPLACEMENT PHASE IIIA NORTH DECATUR ROAD TO CLIFTON ROAD

STANDARD DETAILS

DRAWING No. SD-03