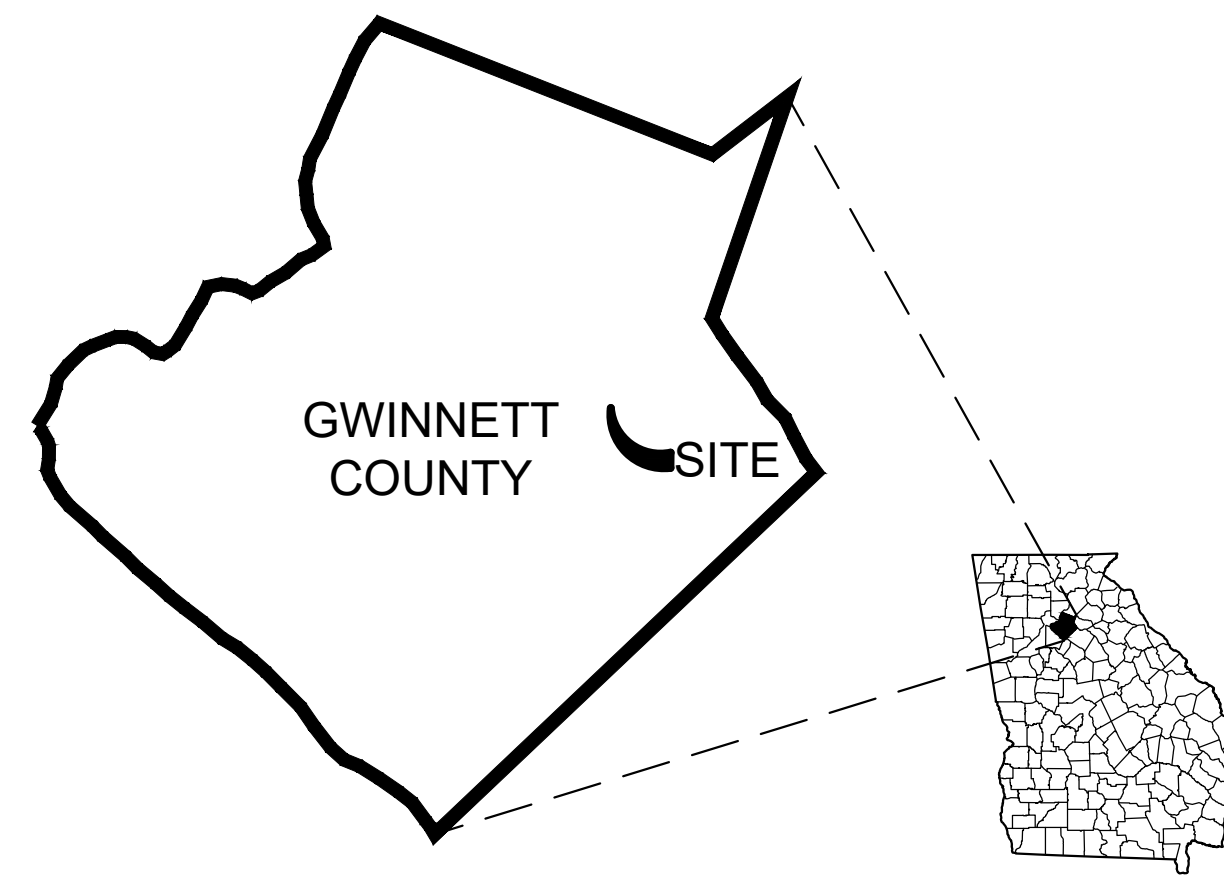


CONSTRUCTION DRAWINGS FOR MCMILLAN ROAD STORMWATER IMPROVEMENTS PROJECT

DACULA, GEORGIA
GWINNETT COUNTY
LAND LOT 302
5TH DISTRICT



DRAWING INDEX		SUBMITTALS		
SH. NO.	SHEET NAME	1	2	3
C000	COVER SHEET			
C100	DEMOLITION PLAN			
C101	DEMOLITION PLAN			
C200	SITE LAYOUT PLAN			
C201	SITE LAYOUT PLAN			
C300	GRADING & DRAINAGE PLAN			
C301	GRADING & DRAINAGE PLAN			
C302	STORM WATER PROFILES			
C303	PROFILES			
C500	EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES			
C510	EROSION, SEDIMENTATION & POLLUTION CONTROL PHASE I			
C520	EROSION, SEDIMENTATION & POLLUTION CONTROL PHASE II			
C530	EROSION, SEDIMENTATION & POLLUTION CONTROL PHASE III			
C540	EROSION, SEDIMENTATION & POLLUTION CONTROL DETAILS			
C700	DETAILS			
C701	DETAILS			
C702	DETAILS			

WETLANDS
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 (1) 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 WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.

PROJECT DESCRIPTION:
THE PROJECT CONSISTS OF IMPROVING THE STORM DRAINAGE SYSTEM & ROADWAY ALONG MCMILLAN ROAD BETWEEN WINDER HIGHWAY & STANLEY RD

ENGINEER/SURVEYOR:
BOWMAN
4174 SILVER PEAK PARKWAY
SUWANEE, GEORGIA 30024
PH: 770-932-6550 FX: 770-932-6551
ENGINEER CONTACT: KEVIN D WHIGHAM, P.E. EMAIL: KWhigham@bowman.com
SURVEY CONTACT: J. CHRIS WHITLEY, P.L.S. EMAIL: CWhitley@bowman.com

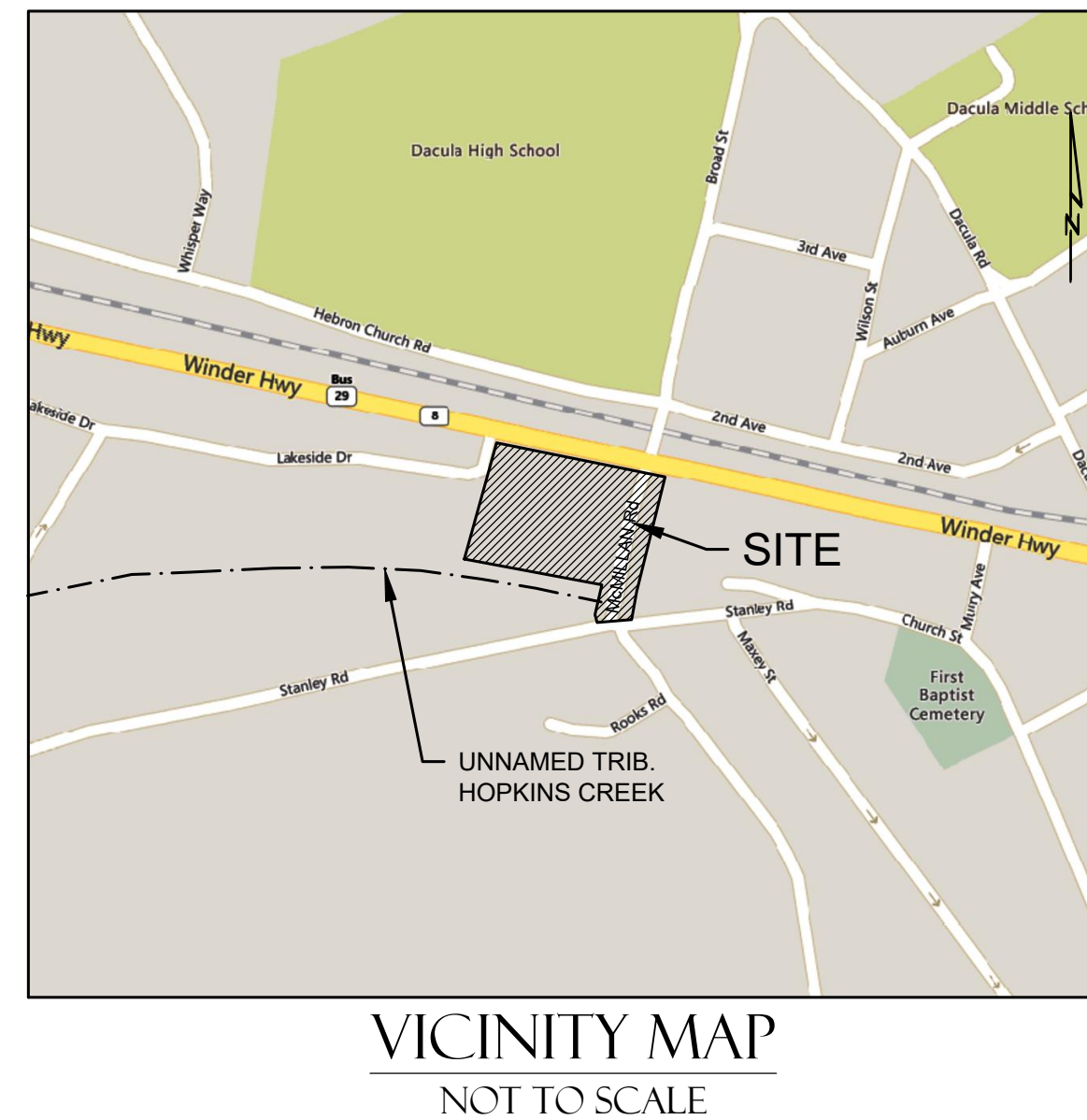
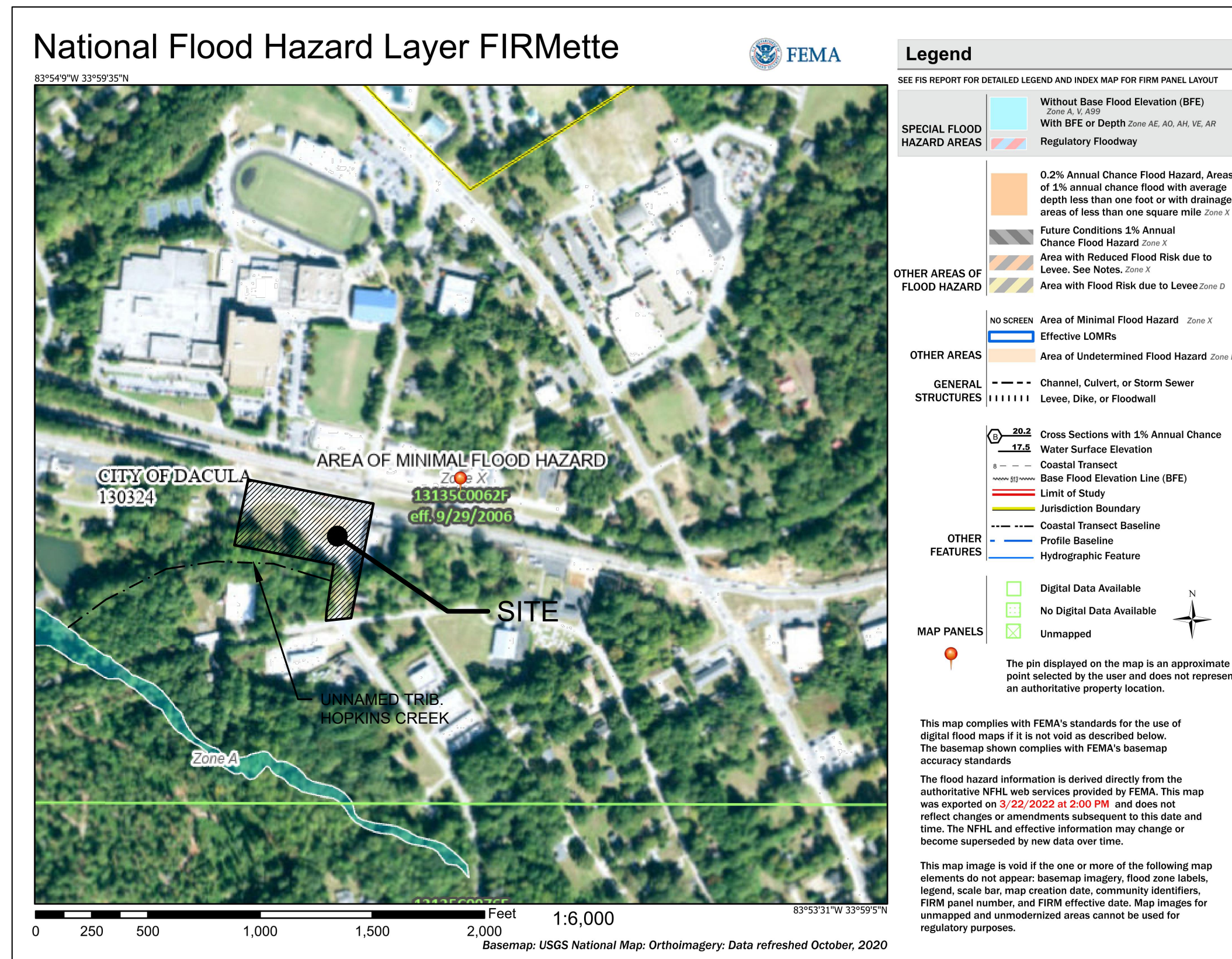
SITE VISIT CERTIFICATION:
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.
[Signature]
KEVIN D WHIGHAM, P.E. - ES/WCC LEVEL II CERTIFICATION #945 EXP: 9/27/2023 DATE: 6/24/2022

FLOODPLAIN:
PART OF THIS PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) PER FEMA FIRM PANEL 13135C0062F DATED 9/29/2006.

STATE WATERS
STATE WATERS ARE ON / ADJACENT THIS SITE REQUIRING A 25' STATE UNDISTURBED BUFFER, 50' COUNTY UNDISTURBED BUFFER AND 75' IMPERVIOUS SETBACK MEASURED FROM THE TOP OF BANK.
RECEIVING WATERS HOPKINS CREEK

SURVEY:
THE BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN IS FROM A SURVEY PERFORMED BY BOWMAN DATED MARCH 11, 2022. DATUM, MEAN SEA LEVEL, NAD83 GA WEST FOOT

24 HOUR CONTACT
CITY OF DACULA
BRITNI NIX
BRITNI.NIX@DACULAGA.GOV
770-963-7451
811 Know what's below.
Call before you dig.



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CITY OF DACULA

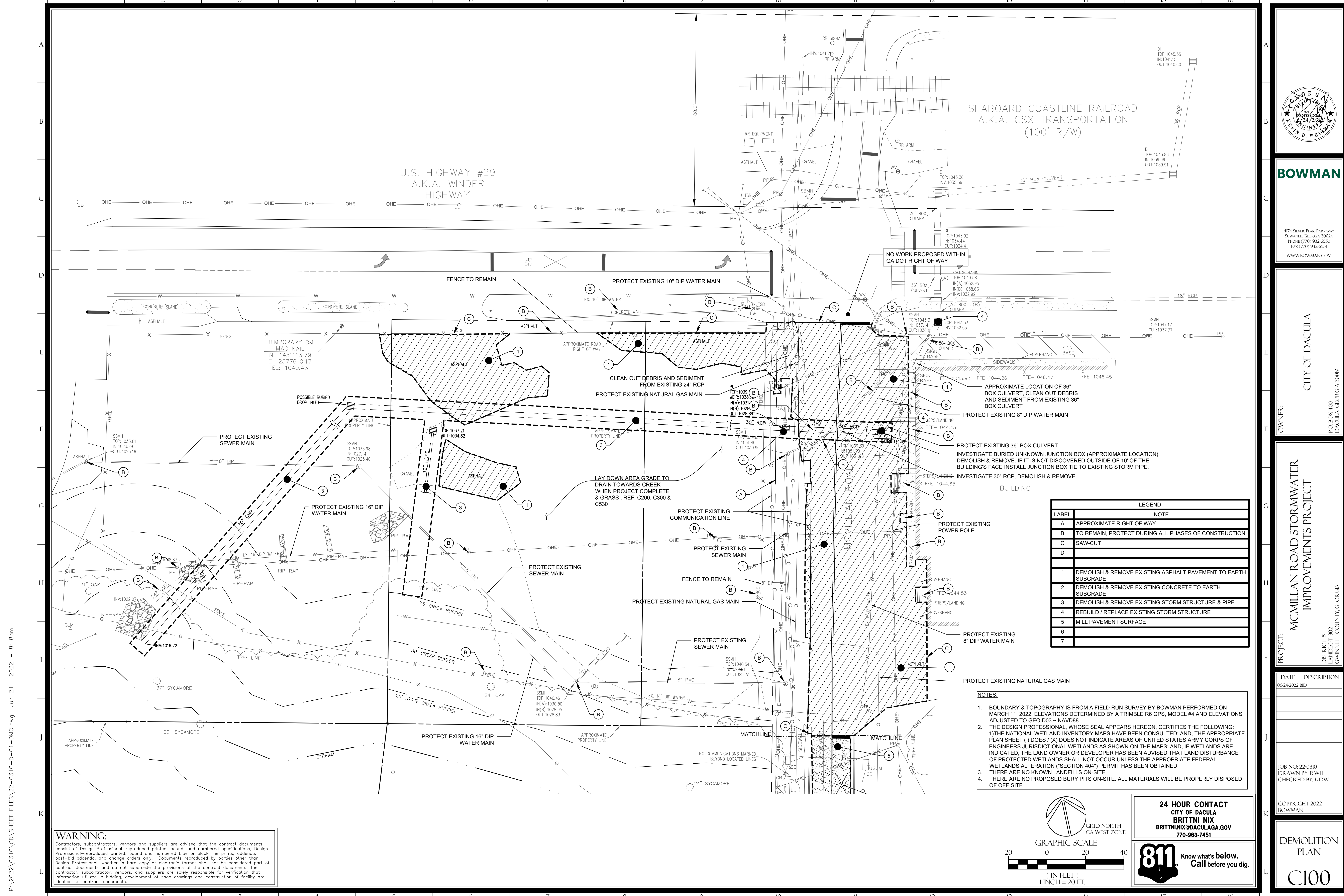
MCMILLAN ROAD STORMWATER
IMPROVEMENTS PROJECT

DATE	DESCRIPTION
06/24/2022	BID

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COVER SHEET

C000



BOWMAN

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 SUWANEE, GEORGIA 30024
 PHONE: (770) 932-6550
 FAX: (770) 932-6551
 WWW.BOWMANCCM.COM

CITY OF DACULA

OWNER: CITY OF DACULA
 P.O. BOX 400
 DACULA, GEORGIA 30019

PROJECT: MCMILLAN ROAD STORMWATER IMPROVEMENTS PROJECT
 DISTRICT: 5
 LANDSCAPE: 302
 GWINNETT COUNTY, GEORGIA

DATE	DESCRIPTION
06/24/2022	BID

JOB NO: 22-0310
 DRAWN BY: RWH
 CHECKED BY: KDW

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DEMOLITION PLAN

C100

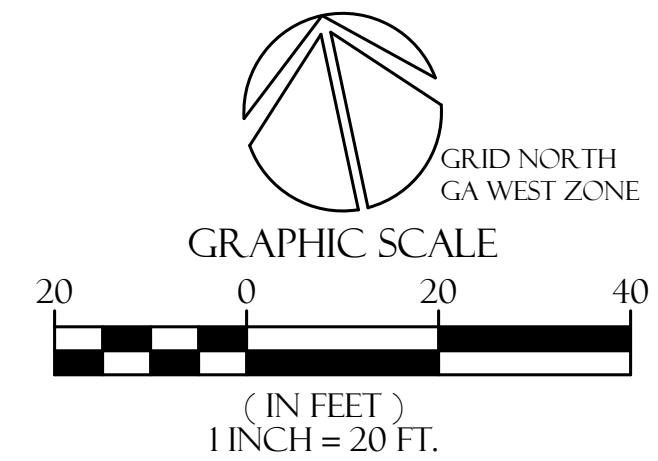
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LEGEND	
LABEL	NOTE
A	APPROXIMATE RIGHT OF WAY
B	TO REMAIN, PROTECT DURING ALL PHASES OF CONSTRUCTION
C	SAW-CUT
D	
1	DEMOLISH & REMOVE EXISTING ASPHALT PAVEMENT TO EARTH SUBGRADE
2	DEMOLISH & REMOVE EXISTING CONCRETE TO EARTH SUBGRADE
3	DEMOLISH & REMOVE EXISTING STORM STRUCTURE & PIPE
4	REBUILD / REPLACE EXISTING STORM STRUCTURE
5	MILL PAVEMENT SURFACE
6	
7	

NOTES:

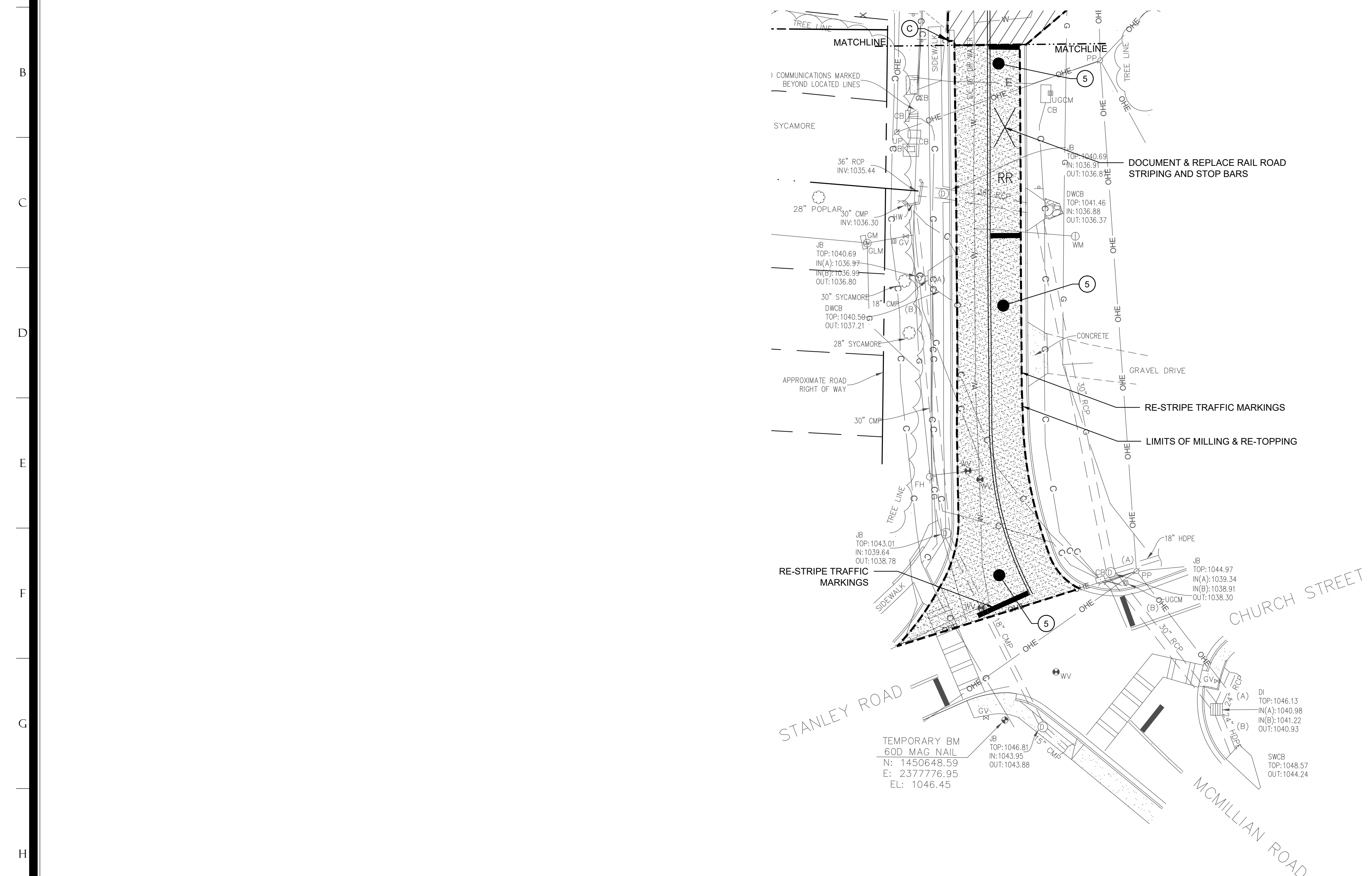
- BOUNDARY & TOPOGRAPHY IS FROM A FIELD RUN SURVEY BY BOWMAN PERFORMED ON MARCH 11, 2022. ELEVATIONS DETERMINED BY A TRIMBLE R6 GPS, MODEL #4 AND ELEVATIONS ADJUSTED TO GEOID03 ~ NAVD88.
- THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND, 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, IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION (SECTION 404) PERMIT HAS BEEN OBTAINED.
- THERE ARE NO KNOWN LANDFILLS ON-SITE.
- THERE ARE NO PROPOSED BURY PITS ON-SITE. ALL MATERIALS WILL BE PROPERLY DISPOSED OF OFF-SITE.



24 HOUR CONTACT
 CITY OF DACULA
 BRITTNI NIX
 BRITTN.NIX@DACULAGA.GOV
 770-963-7451



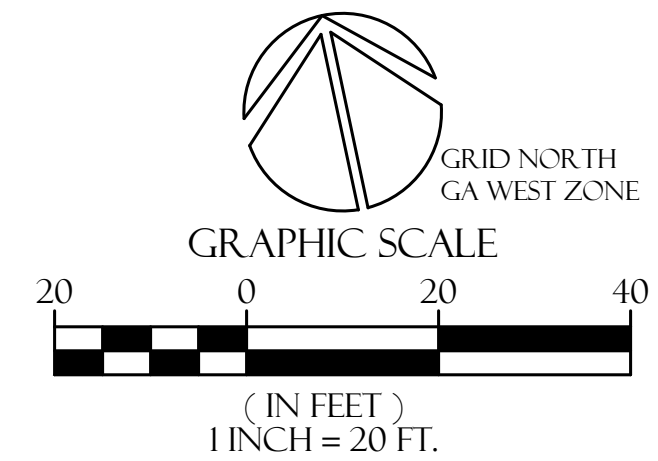
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5	MILL PAVEMENT SURFACE
6	
7	

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BOWMAN

4174 SILVER PEAK PARKWAY
 SUWANEE, GEORGIA 30024
 PHONE: (770) 932-6550
 FAX: (770) 932-6551
 WWW.BOWMANCCOM

OWNER:
 CITY OF DACULA

PROJECT:
 MCMILLAN ROAD STORMWATER IMPROVEMENTS PROJECT

DATE DESCRIPTION
 06/24/2022 BID

JOB NO: 22-0310
 DRAWN BY: RWB
 CHECKED BY: KDW

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DEMOLITION PLAN

C101

SEABOARD COASTLINE RAILROAD
A.K.A. CSX TRANSPORTATION
(100' R/W)

U.S. HIGHWAY #29
A.K.A. WINDER
HIGHWAY

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO ALL CITY OF DACULA AND ALSO GWINNETT COUNTY DEVELOPMENT REGULATIONS, STATE AND FEDERAL CODES, STANDARDS & REGULATIONS.
2. ERECT ALL EROSION, SEDIMENT & POLLUTION CONTROL MEASURES PRIOR TO ANY LAND DISTURBANCE ACTIVITY AND MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION UNTIL PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.
3. MAINTAIN THE EROSION, SEDIMENT & POLLUTION CONTROL DEVICES DURING ALL PHASES OF CONSTRUCTION. CLEAN OUT AND REMOVE ALL ACCUMULATED SILT AND SEDIMENT WHENEVER SAID DEVICES ARE HALF FULL.
4. BARRIER FREE ACCESSIBLE ROUTE SHALL START AT HANDICAP PARKING AND GO INTO ALL ENTRANCES OF NEW OR RENOVATED BUILDINGS OR TENANT SPACES. IT IS ALSO REQUIRED THAT THE PARKING SPACE AND ITS ADJACENT AISLE BE RELATIVELY LEVEL, THAT IS, HAVING LESS THAN A 1:50 SLOPE, LESS THAN 2%.
5. RAMPS SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB OR IS PART OF AN ACCESSIBLE ROUTE ACCESSIBILITY CODE. A MAXIMUM SLOPE OF 1:12. ALL PRIMARY ENTRANCES USUALLY CONSIDERED AS MAJOR POINTS OF PEDESTRIAN FLOW MUST BE ACCESSIBLE TO MEET THE REQUIREMENTS OF H.B. #797.
6. NOTIFY CITY OF DACULA AND GWINNETT COUNTY INSPECTIONS 24 HOURS BEFORE BEGINNING OF EVERY PHASE OF CONSTRUCTION.
7. ALL CONSTRUCTION SURVEYING (INCLUDING LAYOUT) SHALL BE PERFORMED BY A LAND SURVEYOR HOLDING CURRENT REGISTRATION AND LICENSE IN THE STATE OF GEORGIA. SUBMIT PROOF OF REGISTRATION TO THE ARCHITECT SEVEN DAYS PRIOR TO LAND DISTURBANCE.
8. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED ON PLANS.
9. THERE ARE ROOF OVERHANGS. REFERENCE ARCHITECTURAL DRAWINGS. AT LEAST ONE (ACCESSIBLE ROUTE) COMPLYING WITH RULE 120-3-20-.14 SHALL BE PROVIDED WITHIN THE BOUNDARY OF THE SITE FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING SPACES, PASSENGER LOADING ZONES IF PROVIDED, AND PUBLIC STREETS OR SIDEWALKS, TO AN ACCESSIBLE BUILDING ENTRANCES. RULE 120-3-20-07(A) GEORGIA ACCESSIBILITY CODE.
10. DURING CONSTRUCTION AND FOR PERMANENT ACCESS, ROADWAYS CONSTRUCTED OF AN ALL WEATHER SURFACE CAPABLE OF SUPPORTING 75,000 POUNDS GROSS WEIGHT SHALL BE PROVIDED PER INTERNATIONAL FIRE CODE, CHAPTER 5, SECTION 503.2.3, APPENDIX D, D102.1.2018 EDITION.



BOWMAN

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FAX: (770) 932-6551
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CITY OF DACULA

OWNER:
CITY OF DACULA, GEORGIA 30019

PROJECT:
MCMILLAN ROAD STORMWATER
IMPROVEMENTS PROJECT

DESIGNER:
BRITTNIX@DACULAGA.GOV
GWINNETT COUNTY, GEORGIA

DATE: 06/24/2022
DESCRIPTION: BID

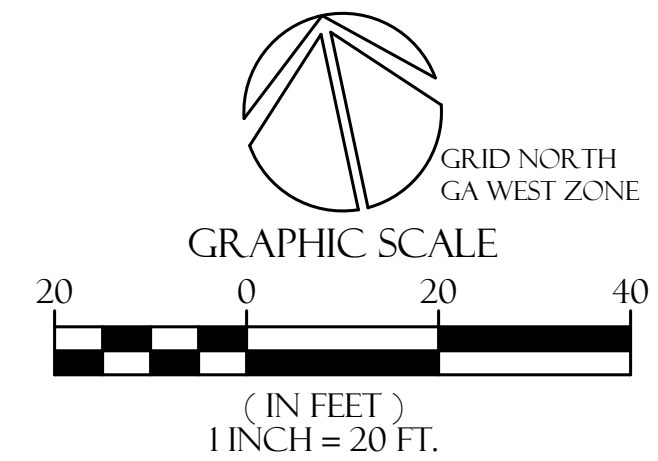
JOB NO: 22-0310
DRAWN BY: RW/H
CHECKED BY: KDW

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SITE LAYOUT
PLAN

C200

LEGEND		
LABEL	NOTE	DETAIL / SHEET
A	APPROXIMATE RIGHT OF WAY	
B	MAINTAIN EXISTING CONCRETE SIDEWALK ALONG	
C	TIE TO EXISTING CURB AND PAVEMENT	
D	TO REMAIN	
E	DISASSEMBLE AND REINSTALL EXISTING CHAIN LINK FENCE & GATE	
1	24" CONCRETE CURB & GUTTER	1 / C700
2	HEAVY DUTY ASPHALT PAVEMENT (ROADWAY)	2C / C700
3	PROPOSED PARKING STRIPING	5 / C700
4	DOUBLE YELLOW THERMOPLASTIC TRAFFIC STRIPING	4 / C700
5	24" THICK GADOT STD. 'STOP BAR'	4 / C700
6	MILL 2-1/2" AND RE-TOPE PAVEMENT	2A / C700
7	STANDARD DUTY ASPHALT PAVEMENT (PARKING)	2D / C700



24 HOUR CONTACT
CITY OF DACULA
BRITTNIX
BRITTNIX@DACULAGA.GOV
770-963-7451

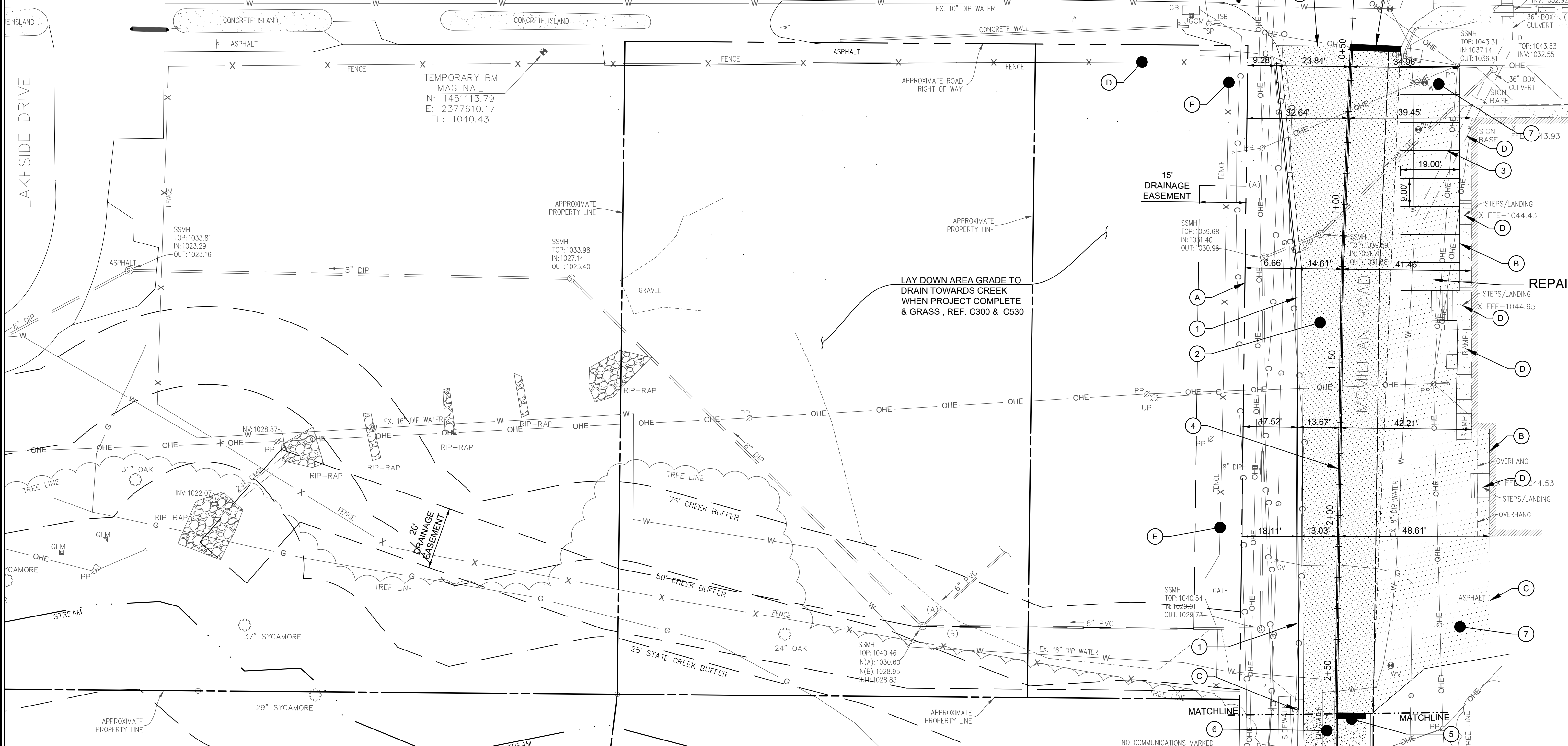


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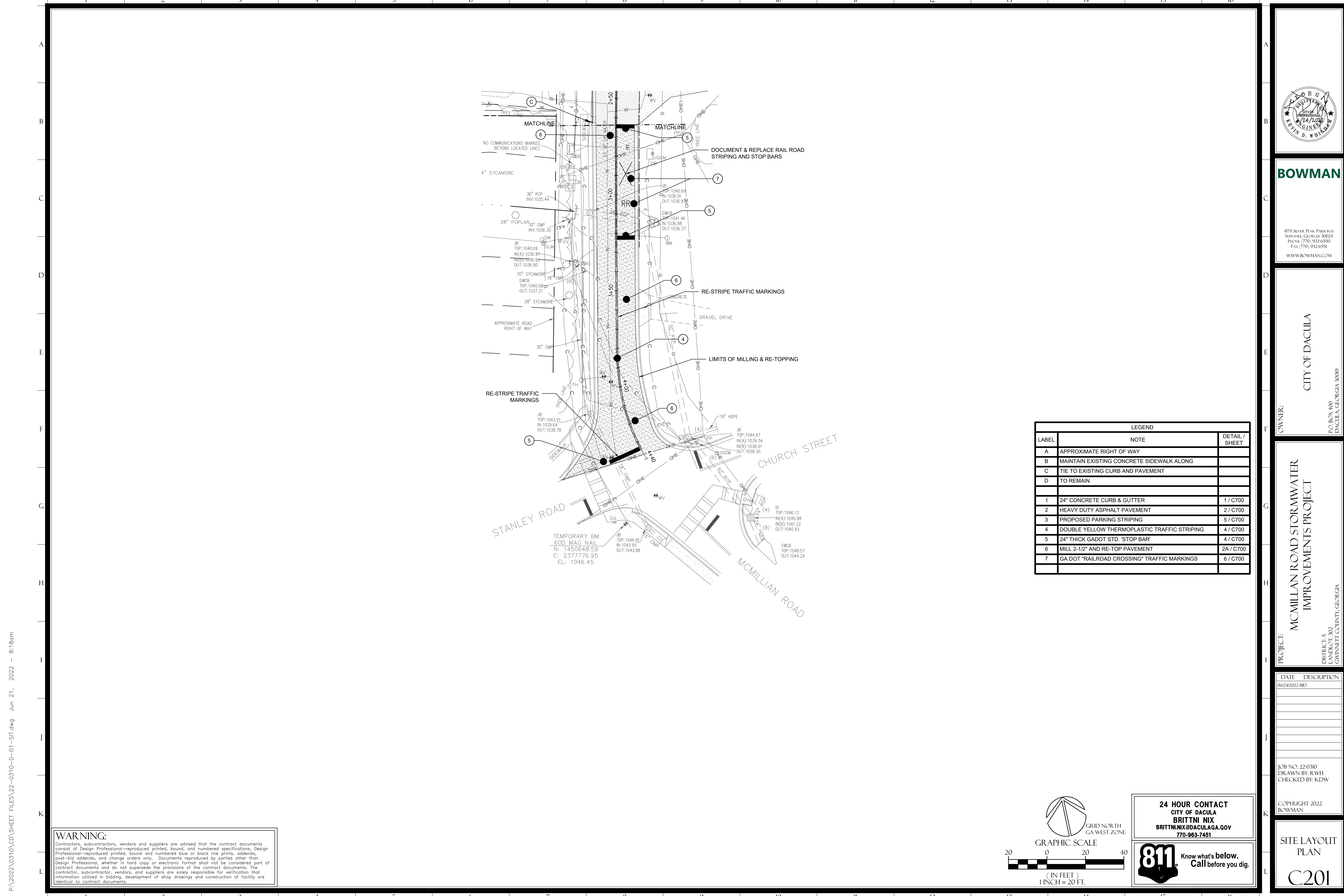
LAY DOWN AREA GRADE TO DRAIN TOWARDS CREEK WHEN PROJECT COMPLETE & GRASS, REF. C300 & C530

REPAINT EXISTING (8) PARKING SPACES

BUILDING



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BOWMAN

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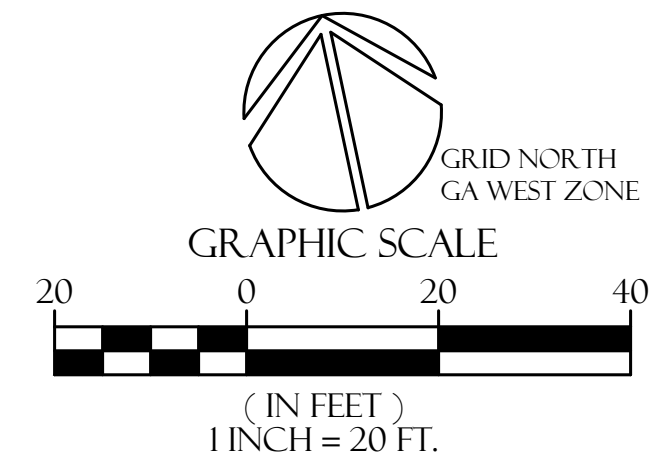
OWNER:
 CITY OF DACULA

P.O. BOX 400
 DACULA, GEORGIA 30019

PROJECT:
 MCMILLAN ROAD STORMWATER
 IMPROVEMENTS PROJECT

DISTRICT: 5
 LANDACOT: 302
 GWINNETT COUNTY, GEORGIA

LEGEND		
LABEL	NOTE	DETAIL / SHEET
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C	TIE TO EXISTING CURB AND PAVEMENT	
D	TO REMAIN	
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2	HEAVY DUTY ASPHALT PAVEMENT	2 / C700
3	PROPOSED PARKING STRIPING	5 / C700
4	DOUBLE YELLOW THERMOPLASTIC TRAFFIC STRIPING	4 / C700
5	24" THICK GADOT STD. 'STOP BAR'	4 / C700
6	MILL 2-1/2" AND RE-TO PAVEMENT	2A / C700
7	GA DOT "RAILROAD CROSSING" TRAFFIC MARKINGS	6 / C700



24 HOUR CONTACT
 CITY OF DACULA
 BRITNI NIX
 BRITNI.NIX@DACULAGA.GOV
 770-963-7451



DATE	DESCRIPTION
06/24/2022	BID

JOB NO: 22-0310
 DRAWN BY: RWJH
 CHECKED BY: KDW

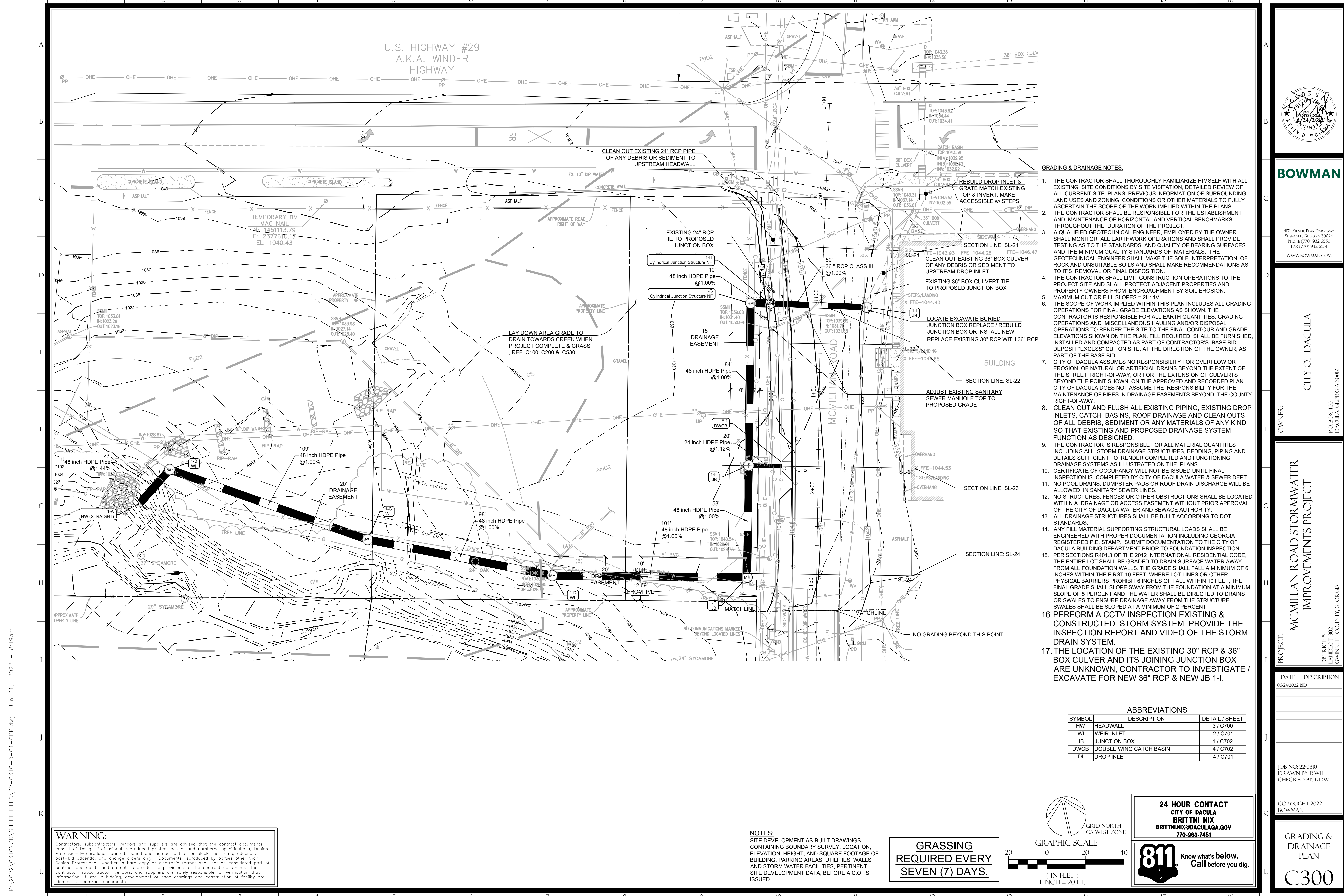
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SITE LAYOUT
 PLAN

C201

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U.S. HIGHWAY #29
A.K.A. WINDER
HIGHWAY

CLEAN OUT EXISTING 24" RCP PIPE
OF ANY DEBRIS OR SEDIMENT TO
UPSTREAM HEADWALL

LAY DOWN AREA GRADE TO
DRAIN TOWARDS CREEK WHEN
PROJECT COMPLETE & GRASS
REF. C100, C200 & C530

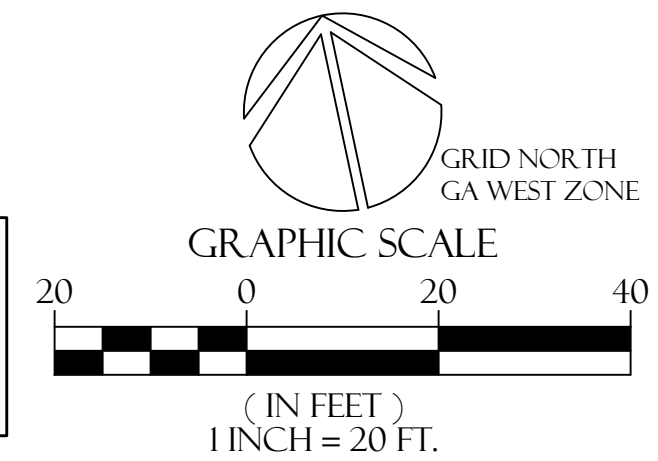
- GRADING & DRAINAGE NOTES:**
1. THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING SITE CONDITIONS BY SITE VISITATION. DETAILED REVIEW OF ALL CURRENT SITE PLANS, PREVIOUS INFORMATION OF SURROUNDING LAND USES AND ZONING CONDITIONS OR OTHER MATERIALS TO FULLY ASCERTAIN THE SCOPE OF THE WORK IMPLIED WITHIN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT AND MAINTENANCE OF HORIZONTAL AND VERTICAL BENCHMARKS THROUGHOUT THE DURATION OF THE PROJECT.
 2. A QUALIFIED GEOTECHNICAL ENGINEER, EMPLOYED BY THE OWNER SHALL MONITOR ALL EARTHWORK OPERATIONS AND SHALL PROVIDE TESTING AS TO THE STANDARDS, AND QUALITY OF BEARING SURFACES AND THE MINIMUM QUALITY STANDARDS OF MATERIALS. THE GEOTECHNICAL ENGINEER SHALL MAKE THE SOLE INTERPRETATION OF ROCK AND UNSUITABLE SOILS AND SHALL MAKE RECOMMENDATIONS AS TO ITS REMOVAL OR FINAL DISPOSITION.
 3. THE CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATIONS TO THE PROJECT SITE AND SHALL PROTECT ADJACENT PROPERTIES AND PROPERTY OWNERS FROM ENCROACHMENT BY SOIL EROSION.
 4. THE SCOPE OF WORK IMPLIED WITHIN THIS PLAN INCLUDES ALL GRADING OPERATIONS FOR FINAL GRADE ELEVATIONS AS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTH QUANTITIES, GRADING OPERATIONS AND MISCELLANEOUS HAULING AND/OR DISPOSAL OPERATIONS TO RENDER THE SITE TO THE FINAL CONTOUR AND GRADE ELEVATIONS SHOWN ON THE PLAN. FILL REQUIRED SHALL BE FURNISHED, INSTALLED AND COMPACTED AS PART OF CONTRACTOR'S BASE BID. DEPOSIT "EXCESS" CUT ON SITE, AT THE DIRECTION OF THE OWNER, AS PART OF THE BASE BID.
 5. CITY OF DACULA ASSUMES NO RESPONSIBILITY FOR OVERFLOW OR EROSION OF NATURAL OR ARTIFICIAL DRAINS BEYOND THE EXTENT OF THE STREET RIGHT-OF-WAY, OR FOR THE EXTENSION OF CULVERTS BEYOND THE POINT SHOWN ON THE APPROVED AND RECORDED PLAN. CITY OF DACULA DOES NOT ASSUME THE RESPONSIBILITY FOR THE MAINTENANCE OF PIPES IN DRAINAGE EASEMENTS BEYOND THE COUNTY RIGHT-OF-WAY.
 6. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL QUANTITIES INCLUDING ALL STORM DRAINAGE STRUCTURES, BEDDING, PIPING AND DETAILS SUFFICIENT TO RENDER COMPLETED AND FUNCTIONING DRAINAGE SYSTEMS AS ILLUSTRATED ON THE PLANS.
 7. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL FINAL INSPECTION IS COMPLETED BY CITY OF DACULA WATER & SEWER DEPT. NO POOL DRAINS, DUMPSTER PADS OR ROOF DRAIN DISCHARGE WILL BE ALLOWED IN SANITARY SEWER LINES.
 8. NO STRUCTURES, FENCES OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN A DRAINAGE OR ACCESS EASEMENT WITHOUT PRIOR APPROVAL OF THE CITY OF DACULA WATER AND SEWAGE AUTHORITY.
 9. ALL DRAINAGE STRUCTURES SHALL BE BUILT ACCORDING TO DOT STANDARDS.
 10. ANY FILL MATERIAL SUPPORTING STRUCTURAL LOADS SHALL BE ENGINEERED WITH PROPER DOCUMENTATION INCLUDING GEORGIA REGISTERED P.E. STAMP. SUBMIT DOCUMENTATION TO THE CITY OF DACULA BUILDING DEPARTMENT PRIOR TO FOUNDATION INSPECTION.
 11. PER SECTIONS R401.3 OF THE 2012 INTERNATIONAL RESIDENTIAL CODE, THE ENTIRE LOT SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM ALL FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST 10 FEET, WHERE LOT LINES OR OTHER PHYSICAL BARRIERS PROHIBIT 6 INCHES OF FALL WITHIN 10 FEET, THE FINAL GRADE SHALL SLOPE AWAY FROM THE FOUNDATION AT A MINIMUM SLOPE OF 5 PERCENT AND THE WATER SHALL BE DIRECTED TO DRAINS OR SWALES TO ENSURE DRAINAGE AWAY FROM THE STRUCTURE. SWALES SHALL BE SLOPED AT A MINIMUM OF 2 PERCENT.
 12. PERFORM A CCTV INSPECTION EXISTING & CONSTRUCTED STORM SYSTEM. PROVIDE THE INSPECTION REPORT AND VIDEO OF THE STORM DRAIN SYSTEM.
 13. THE LOCATION OF THE EXISTING 30" RCP & 36" BOX CULVERT AND ITS JOINING JUNCTION BOX ARE UNKNOWN, CONTRACTOR TO INVESTIGATE / EXCAVATE FOR NEW 36" RCP & NEW JB 1-I.

ABBREVIATIONS

SYMBOL	DESCRIPTION	DETAIL / SHEET
HW	HEADWALL	3 / C700
WI	WEIR INLET	2 / C701
JB	JUNCTION BOX	1 / C702
DWCB	DOUBLE WING CATCH BASIN	4 / C702
DI	DROP INLET	4 / C701

NOTES:
SITE DEVELOPMENT AS-BUILT DRAWINGS CONTAINING BOUNDARY SURVEY, LOCATION, ELEVATION, HEIGHT, AND SQUARE FOOTAGE OF BUILDING, PARKING AREAS, UTILITIES, WALLS AND STORM WATER FACILITIES, PERTINENT SITE DEVELOPMENT DATA, BEFORE A C.O. IS ISSUED.

**GRASSING
REQUIRED EVERY
SEVEN (7) DAYS.**



24 HOUR CONTACT
CITY OF DACULA
BRITNI NIX
BRITNI.NIX@DACULAGA.GOV
770-963-7451

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CITY OF DACULA

P.O. BOX 400
DACULA, GEORGIA 30019

PROJECT: **MC MILLAN ROAD STORMWATER IMPROVEMENTS PROJECT**

DEFLECT: 5
LANDACOT: 302
GWINNETT COUNTY, GEORGIA

DATE	DESCRIPTION
06/24/2022	BID

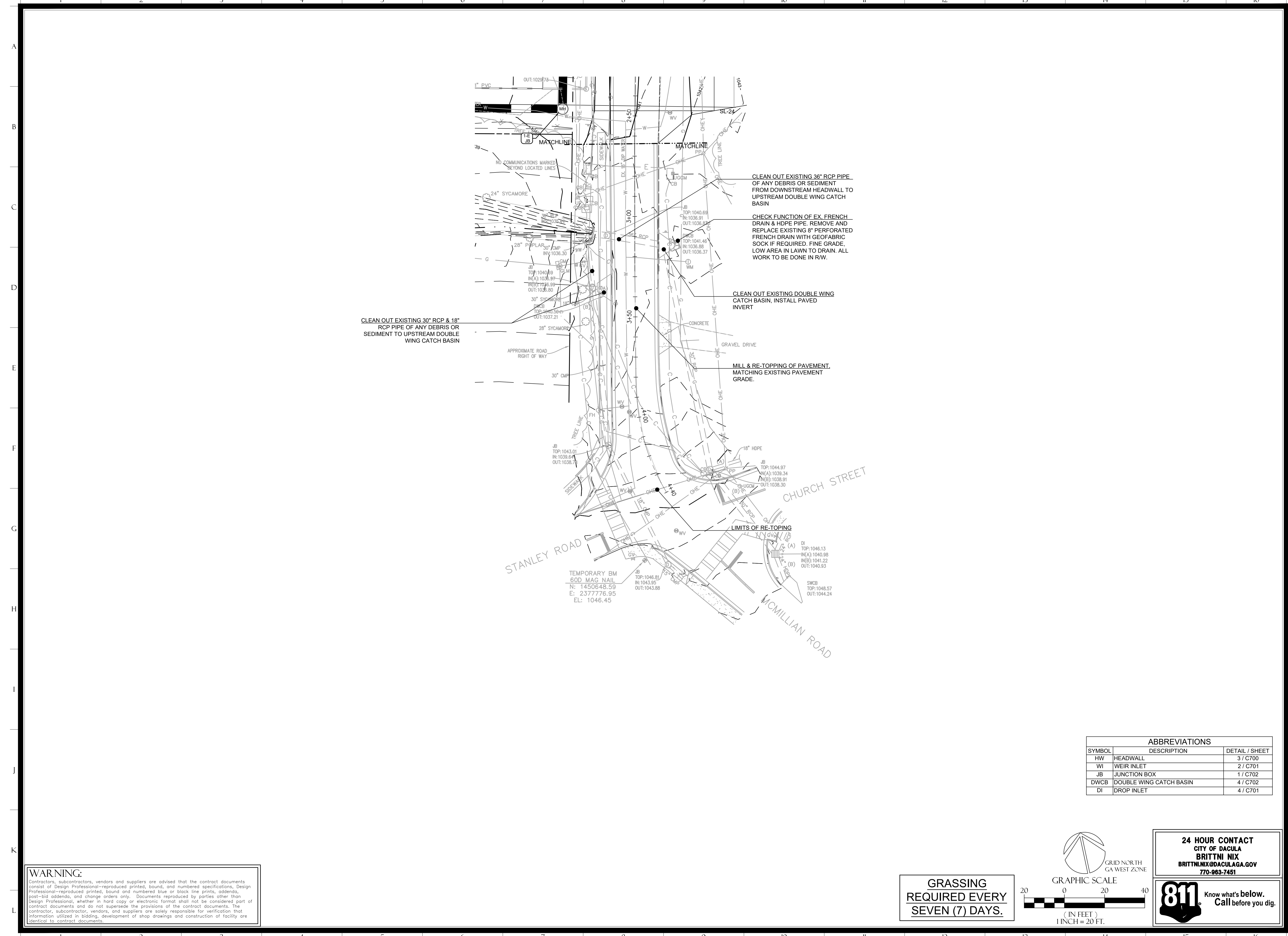
JOB NO: 22-0310
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GRADING &
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PLAN

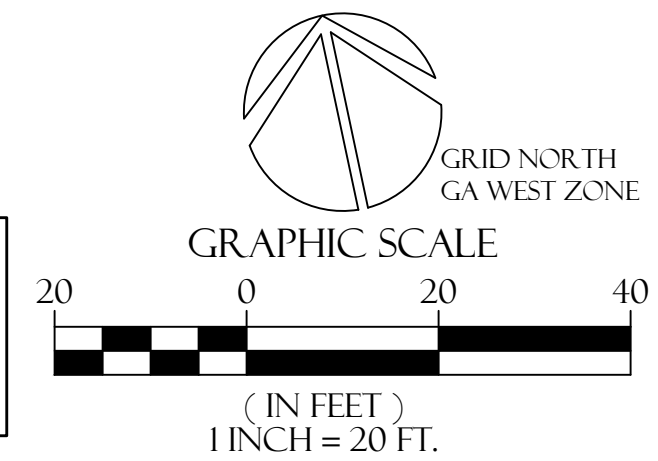
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**GRASSING
 REQUIRED EVERY
 SEVEN (7) DAYS.**



ABBREVIATIONS		
SYMBOL	DESCRIPTION	DETAIL / SHEET
HW	HEADWALL	3 / C700
WI	WEIR INLET	2 / C701
JB	JUNCTION BOX	1 / C702
DWCB	DOUBLE WING CATCH BASIN	4 / C702
DI	DROP INLET	4 / C701

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811 Know what's below.
 Call before you dig.



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 MCMILLAN ROAD STORMWATER
 IMPROVEMENTS PROJECT

DISTRICT: 5
 LANDSCAPE: 302
 GWINNETT COUNTY, GEORGIA

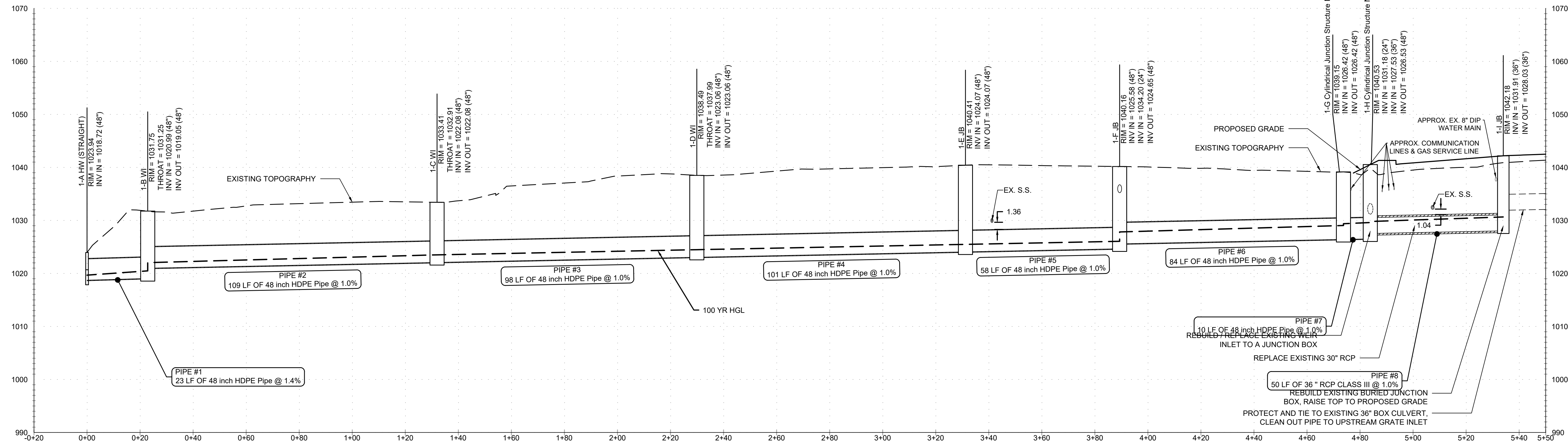
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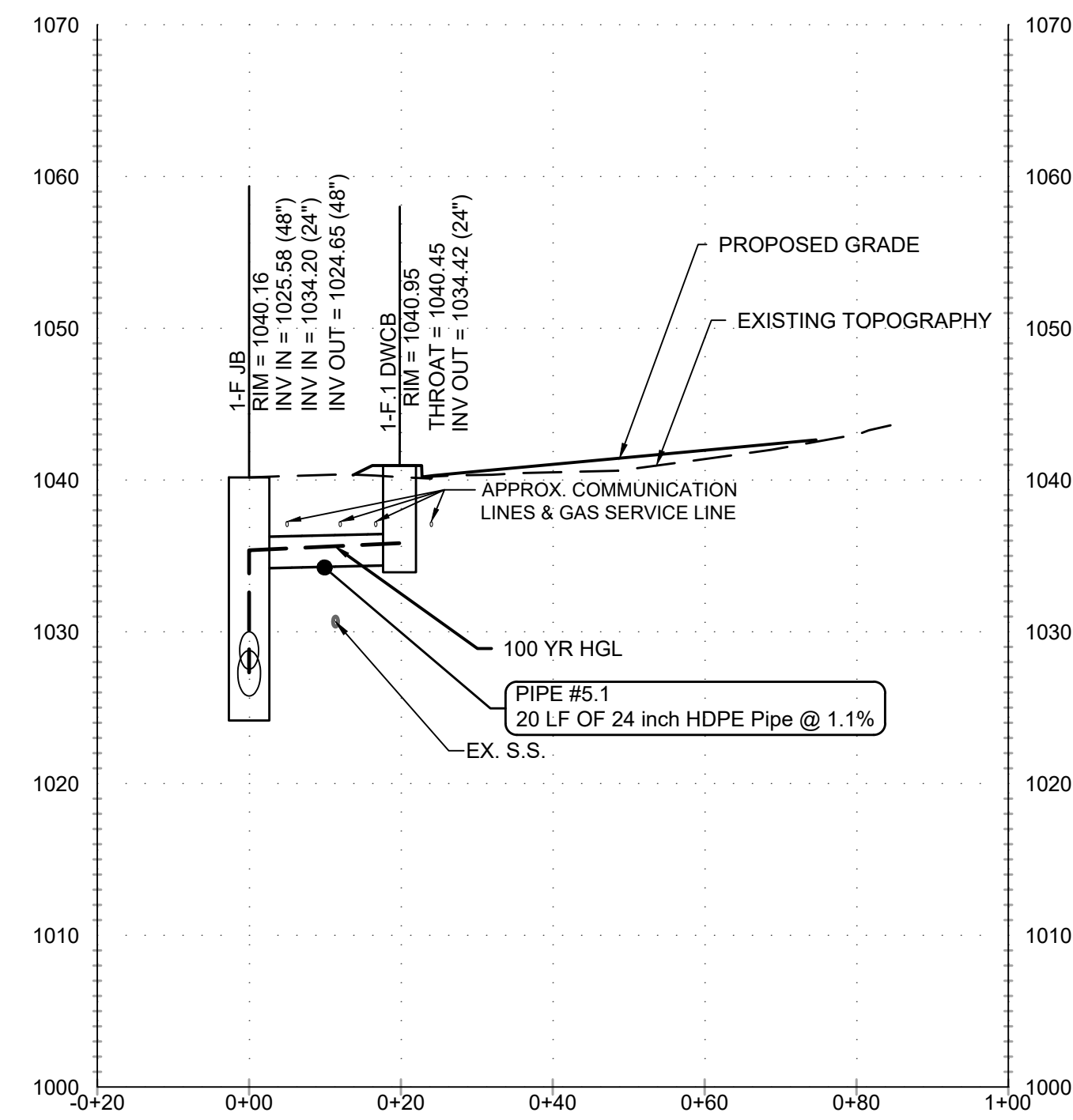
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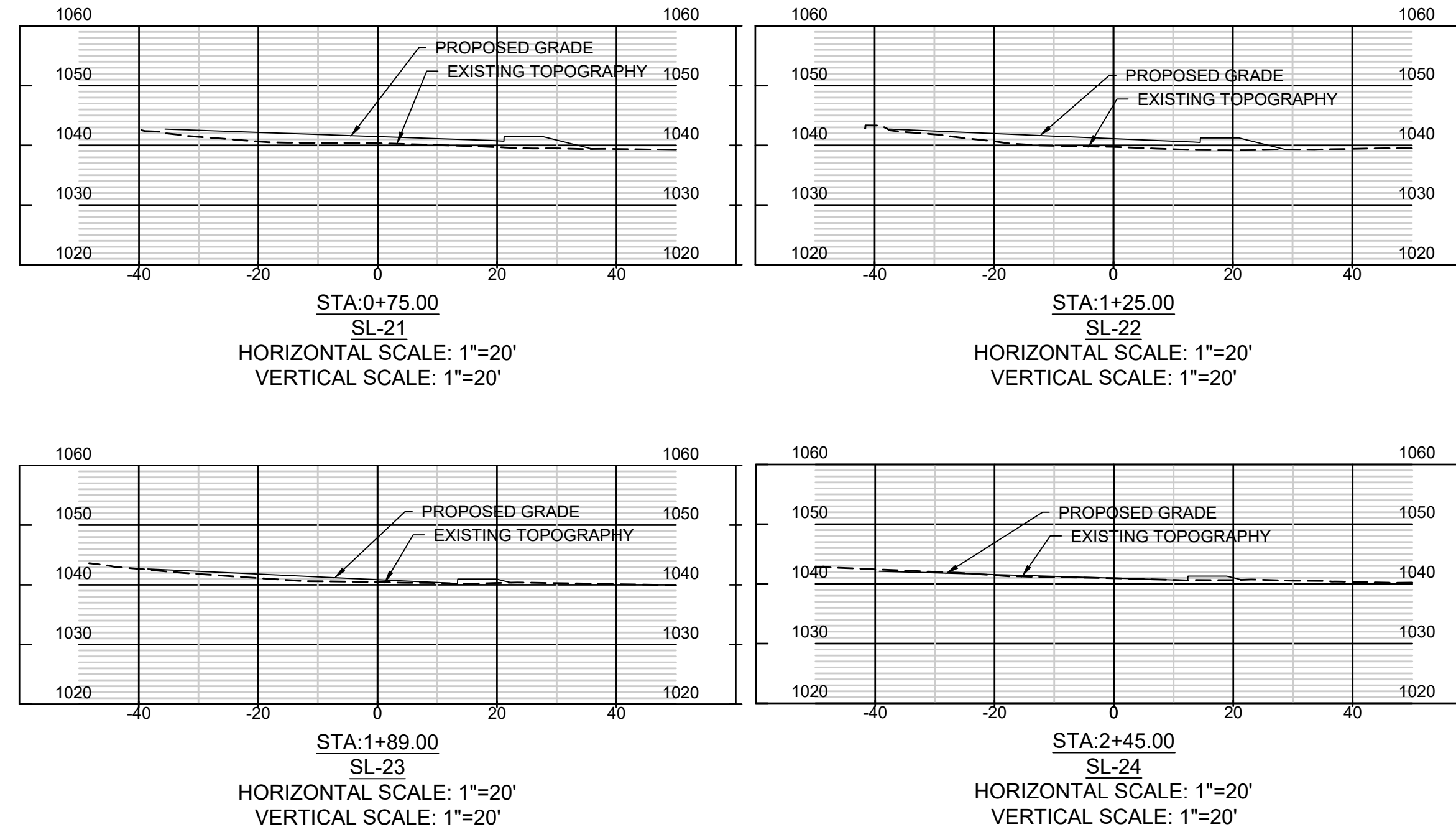
C301



STORMLINE 1
 Horizontal : 1" = 20'
 Vertical : 1" = 10'



STORMLINE 1-F
 Horizontal : 1" = 20'
 Vertical : 1" = 10'



Pipe		PIPE CHART																				
Pipe #	Mat.	Location	Inlet Type	D.A. (Acres)	D.A. (Sum)	C	Tc (Min)	I25 (In/Hr)	Q25 (cfs)	Q25 (Sum)	I100 (In/Hr)	Q100 (cfs)	Q100 (Sum)	Slope %	Lgth. +/- (ft.)	Size (In)	Vel. (fps)	I10 (In/Hr)	Q10 (cfs)	Gutter Slope	Gutter Spread	
EX. 3	BOX	X3-X2	DI	33.92	33.92	0.51	296.8	9.29	160.71	160.71	11.40	197.21	197.21	1.00	64	36	7.59					
EX. 2	RCB	X2-A7	JB	0.00	33.92	0.51	5	9.29	0.00	160.71	11.40	0.00	197.21	1.00	50	36	7.59					
EX. 1-1	RCB	X1-A7	HW	2.40	2.40	0.56	141.4	9.29	12.49	12.49	11.40	15.32	15.32	0.60	193	24	6.41					
5.1	HDPE	1F-1-F	DWCB	2.27	4.67	0.59	12.1	9.29	12.44	24.93	11.40	15.27	30.59	1.10	20	24	7.19	7.30	9.78	2.0	6.7	
8	RCP	1I-1H	JB	0.00	33.92	0.59	5.00	9.29	0.00	160.71	11.40	0.00	197.21	1.00	50	36	6.59					
7	HDPE	1H-1G	JB	0.00	36.32	0.59	5.00	9.29	0.00	173.20	11.40	0.00	212.53	1.00	10	48	6.59					
6	HDPE	1G-1F	JB	0.00	36.32	0.95	5.00	9.29	0.00	173.20	11.40	0.00	212.53	1.00	84	48	7.78					
5	HDPE	1F-1E	JB	0.00	40.99	0.95	5.00	9.29	0.00	173.20	11.40	0.00	212.53	1.00	58	48	6.27					
4	HDPE	1E-1D	JB	0.00	40.99	0.95	5.00	9.29	0.00	173.20	11.40	0.00	212.53	1.00	101	48	6.24					
3	HDPE	1D-1C	WI	0.57	41.56	0.41	8.90	9.29	2.17	175.37	11.40	2.66	215.20	1.00	98	48	6.27					
2	HDPE	1C-1B	WI	0.44	42.00	0.46	8.70	9.29	1.88	177.25	11.40	2.31	217.50	1.00	109	48	7.70					
1	HDPE	1B-1A	WI	0.56	42.56	0.41	6.00	9.29	2.13	179.38	11.40	2.62	220.12	1.40	23	48	8.38					

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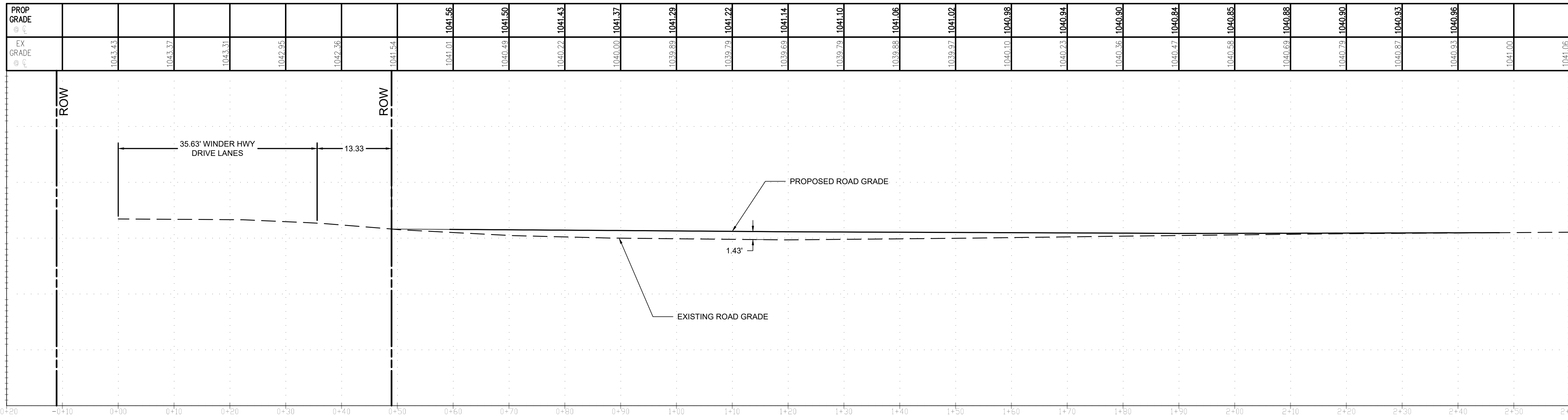
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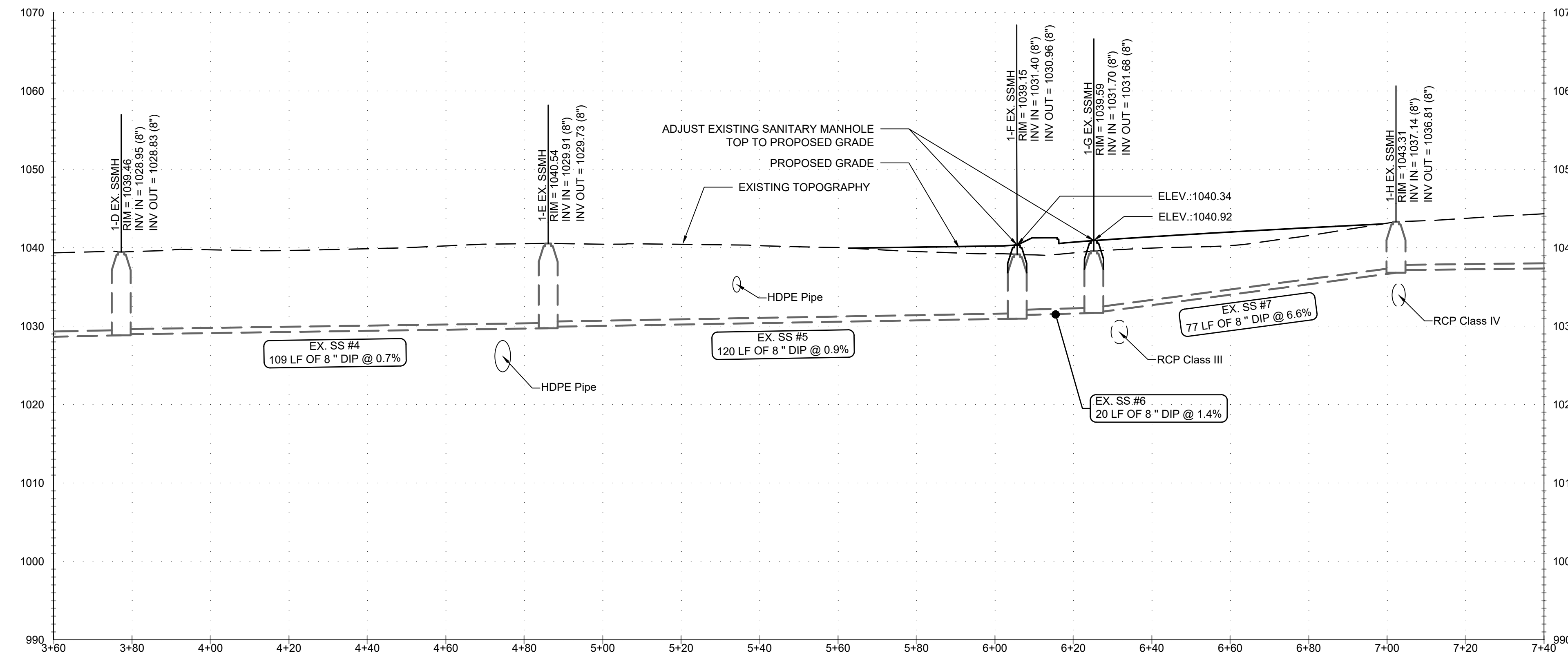
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STORM
 WATER
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C302



MCMILLAN ROAD
Horizontal : 1" = 20'
Vertical : 1" = 20'



Alignment-EX-SS
Horizontal : 1" = 20'
Vertical : 1" = 10'



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PROFILES

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24 HOUR CONTACT
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EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (ES&PC) NOTES:

1. EXISTING LAND USE: RIGHT OF WAY
2. SITE LOCATION: MCMILLAN ROAD, WINDER HWY & BROAD STREET
WINNETT COUNTY, DACULA, GEORGIA
3. PROPOSED USE AND DESCRIPTION OF CONSTRUCTION ACTIVITY: RIGHT OF WAY WITH STORM WATER IMPROVEMENTS.
4. TOTAL SITE AREA: ±0.83 ACRES
5. TOTAL DISTURBED AREA: ±0.83 ACRES, STREAM BUFFER: ±0.53 ACRES.
6. OWNER/DEVELOPER/PRIMARY PERMITTEE: CITY OF DACULA
P.O. BOX 400
DACULA, GA 30019
7. SECONDARY PERMITTEES:
NAME: _____ NAME: _____
COMPANY: _____ COMPANY: _____
ADDRESS: _____ ADDRESS: _____
PHONE NO: _____ PHONE NO: _____
FAX NO: _____ FAX NO: _____
SIGNATURE: _____ SIGNATURE: _____
8. 24 HOUR LOCAL CONTACT FOR EROSION, SEDIMENTATION AND POLLUTION CONTROL: BRITNI NIX
PHONE : (770) 963-7451
9. STATE WATERS ARE LOCATED ON-SITE.
10. THE WETLAND INVENTORY MAP HAS BEEN CONSULTED AND SHOW THAT WETLANDS ARE NOT LOCATED ON THE SITE. HOWEVER THE SITE WAS EXAMINED BY A WETLAND SPECIALIST AND THERE ARE WETLANDS LOCATED ON THE SITE WITHIN THE BUFFERS OF THE STATE WATERS.
11. RECEIVING WATER(S) IS: UNNAMED TRIBUTARY OF HOPKINS CREEK
12. SOIL SERIES FOR THE PROJECT SITE INCLUDE: AmC2, PgD2.
13. DESCRIPTION OF THE MEASURES TO BE INSTALLED DURING CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.
PRODUCT SPECIFIC PRACTICES
PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, 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.
PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE 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.
CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.
FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.
14. INITIAL PERMIT BEST MANAGEMENT PRACTICES (BMP'S): Sd1-S, Sd2-F/P, Du & Ds1.
15. INTERMEDIATE GRADING AND DRAINAGE BMP'S: Sd1-S, Sd2-F/P, Du, Ds1, Ds2.
16. FINAL BMP'S: Ds3, Ds4, Sd2-P.
17. THIS SITE DOES LIE WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP 13135C0062F, DATED 9/29/2006.
18. ESTIMATE OF PRE-CONSTRUCTION 25 YEAR PEAK DISCHARGE FLOW AT X.XX CFS PRE-DEVELOPED CN = XXX
19. ESTIMATE OF POST-CONSTRUCTION 25 YEAR PEAK DISCHARGE FLOW AT X.XX CFS POST-DEVELOPED CN = XXX
20. CRITICAL AREAS LOCATED ON-SITE ARE IDENTIFIED AS: Ss. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASED IN HEIGHT.
21. "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."
22. "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."
23. "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."
24. "STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY CEASED. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVERS OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASE, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THE STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED."
25. "TEMPORARY SEDIMENT BASIN, RETROFITTED DETENTION POND, AND/OR EXCAVATED INLET SEDIMENT TRAPS FOR EACH COMMON DRAINAGE LOCATION PROVIDING A MINIMUM 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED."
26. "SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME."
27. "CONTRACTOR TO CLEAN OUT ACCUMULATED SILT IN DETENTION POND AT THE END OF CONSTRUCTION ACTIVITIES WHEN THE DISTURBED AREAS HAVE BEEN STABILIZED."
28. "CONTRACTOR TO PROVIDE DETENTION POND AS-BUILTS AND RECORD DRAWINGS THAT SHALL INCLUDE TOPO OF POND TO CALCULATE POND VOLUMES AND OUTLET CONTROL STRUCTURE DETAILS AND INFORMATION TO COMPLETE AN AS-BUILT HYDROLOGY STUDY TO VERIFY THAT THE DETENTION POND WILL FUNCTION AS IT WAS DESIGNED."
29. "MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER."
30. "ADDITIONAL SOIL EROSION CONTROL MEASURES WILL BE ADDED IF DETERMINED TO BE NEEDED BY ON-SITE INSPECTIONS."
31. "STANDARDS AND SPECIFICATIONS: ALL DESIGN SHALL CONFORM TO AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL" BY THE GA. SOIL & WATER CONSERVATION COMMISSION."
32. "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."
33. "CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2:5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET."
34. "ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION. CUT AND FILL OPERATIONS SHALL BE KEPT TO A MINIMUM."
35. "ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS."
36. "GRADING OPERATIONS SHALL NOT ENDANGER ADJOINING PROPERTIES."
37. "STRIPPING OF VEGETATION, REGRADING, AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE EROSION."
38. "FILLS SHALL NOT ENCRoACH UPON NATURAL COURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS."
39. "ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE."
40. "CONTRACTOR SHALL REMOVE ALL SILT FENCE AND ALL OTHER TEMPORARY EROSION SEDIMENTATION AND POLLUTION CONTROL MEASURES ONCE SITE IS FINAL STABILIZED AND AFTER ALL GRASSING REQUIREMENTS HAVE BEEN COMPLETED BY THE CONTRACTOR TO THE OWNERS AND CODE SATISFACTION AND BEFORE THE CONTRACTOR LEAVES THE SITE."
41. "CONTRACTOR SHALL MAINTAIN CONSTRUCTION EXITS TO PREVENT TRACKING OF MUD INTO PUBLIC RIGHT-OF-WAY."
42. "OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. (NPDES IV.D.2.C.(2)). CONTRACTOR SHALL USE PM-POLYACRYLAMIDE (PAM) FOR DUST CONTROL, ETC. AT CONSTRUCTION EXITS, VEHICLE WASHING AREAS AND ANY OTHER AREAS WHERE SEDIMENT CAN BE CAPTURED."
43. "CONTRACTOR TO FURNISH AND INSTALL APS 600 SERIES 'SILT STOP' AS MANUFACTURED BY APPLIED POLYMER SYSTEMS, NORCORSSA GAL. OR EQUAL AT A RATE OF 1.5 GALLONS/ACRE IN A HYDROSEEDER MIX OF APPROPRIATE SEED, FERTILIZER, LIME AND MULCH FOR THE SAME ACRE ON ALL DISTURBED OR EXPOSED SOIL SURFACES. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. DO NOT MECHANICALLY DISTURB TREATED AREAS AFTER APPLICATION."
44. "CONTRACTOR SHALL INSPECT ALL VEHICLES AND PETROLEUM STORAGE CONTAINERS REGULARLY, MAKING REPAIRS TO MINIMIZE ALL PETROLEUM SPILLS AND LEAKS AND SHALL KEEP ON HAND DRY, POROUS PETROLEUM ABSORBENT MATERIALS SUCH AS VERMICULITE, SAND AND LEAN SOIL, AND SHALL CLEAN UP ALL SAID SPILLS AND DISPOSE OF SAID MATERIALS IN ACCORDANCE WITH ALL STATE AND FEDERAL REGULATIONS (NPDES IV.D.2.C.(4))."
45. "NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A STREAM BUFFER AND THE STREAM BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED."
46. "THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROLS BMP'S WITHIN 7 DAYS AFTER INSTALLATION. PROOF OF SITE VISIT SHALL BE KEPT ON-SITE."
47. "NON-STORM WATER DISCHARGES SUCH AS FIRE HYDRANT FLUSHING, POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING, IRRIGATION DRAINAGE, AIR CONDITIONING CONDENSATE, SPRINGS, UNCONTAMINATED GROUNDWATER, AND FOUNDATION OR FOOTING DRAINS ARE TO BE TREATED IN THE SAME MANNER AS STORM WATER DISCHARGES."
48. "A 25 FOOT BUFFER ADJACENT TO ALL STREAMS, CREEKS, LAKES, PONDS, ETC. IS REQUIRED TO BE MAINTAINED BY THE SOIL EROSION CONTROL AND SEDIMENT CONTROL ORDINANCE (ARTICLE 4 SECTION 4.3 PARAGRAPH 15). AN EXEMPTION IS GRANTED TO HOMEOWNERS WHO PERFORM MINOR LANDSCAPING ACTIVITIES SUCH AS HOME LANDSCAPING, HOME GARDENS, REPAIRS AND MAINTENANCE WORK. (ARTICLE 3 SECTION 3.1 PARAGRAPH 3)."
49. "CONTRACTOR SHALL ACQUIRE A COPY OF "FIELD MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, VEGETATION AND STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR LAND DISTURBING ACTIVITIES, AS PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, LATEST EDITION."
50. "THE PRIMARY PERMITTEE MUST KEEP AN APPROVED ES&PC PLAN ON-SITE. PRIMARY PERMITTEE MUST MAINTAIN A BMP INSPECTION LOG, A DAILY RAINFALL LOG BOOK, AND A DAILY CONSTRUCTION ENTRANCE/EXIT AREA LOG BOOK. TURBIDITY DATA MUST BE KEPT UP-TO-DATE AND ON-SITE. (NPDES IV.D.5.A.(3))."
51. "THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), AND/OR ALL OUTFALLS, OR A COMBINATION OF RECEIVING WATERS AND OUTFALLS. RECEIVING WATERS MUST HAVE AN UPSTREAM AND DOWNSTREAM SAMPLE LOCATION. (NPDES IV.D.5.C.(1)). "NPDES SAMPLING FOR ALL MONITORING POINTS ON THIS SITE WILL BE BY GRAB SAMPLE METHOD. SAMPLES WILL BE PERFORMED BY THE PRIMARY PERMITTEE OR ITS AGENT TAKEN AND ANALYZED NO LATER THAN 48 HOURS AFTER A GRAB. SAMPLES SHALL BE COLLECTED WHERE THE STREAM IS WELL MIXED FROM HORIZONTAL AND VERTICAL CENTER OF FLOW. WHEN COLLECTING THE SAMPLE, FACE SAMPLING CONTAINER UPSTREAM AND DO NOT STIR SEDIMENT AT BOTTOM OF STREAM. LIFT SAMPLE OUT OF STREAM KEEPING SAMPLES FREE OF FLOATING DEBRIS. AFTER SAMPLES HAVE BEEN COLLECTED IT SHALL BE ANALYZED USING A DIRECT READ, PROPERLY CALIBRATED TURBIDIMETER WITHIN 48 HOURS. (NPDES IV.D.5.A.(2))."
"FOR THIS SITE THE GRAB METHOD WILL BE USED FOR UPSTREAM MONITORING POINTS 'MP-1' AND DOWNSTREAM MONITORING POINTS 'MP-2'.
"SEE ADDITIONAL PERMIT COVERAGE NOTES THIS SHEET FOR AUTHORIZED COVERAGE, LIMITATIONS OF COVERAGE, WATER QUALITY COMPLIANCE, SAMPLING METHODOLOGY AND FREQUENCY."
52. "THE PRIMARY PERMITTEE MAY USE AN ALTERNATE DESIGN PROFESSIONAL TO CONDUCT THE SEVEN (7) DAY BMP INSPECTION, PROVIDED THAT THE PRIMARY MAKES A WRITTEN REQUEST TO EPO TO CHANGE FROM THE DESIGN PROFESSIONAL WHO DEVELOPED THE PLAN AND THE E.P.D. HAS AGREED."
53. "PRIMARY PERMITTEE IS TO PROVIDE EACH SECONDARY PERMITTEE WITH THE APPLICABLE PORTION OF THE ES&PC THAT PERTAINS TO THEIR CONSTRUCTION ACTIVITY AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE. NOT APPLICABLE FOR STAND ALONE AND INFRASTRUCTURE PROJECTS." SECONDARY PERMITTEE UNKNOWN AT THE TIME OF NPDES PERMITTING.
54. "AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL."
55. CONTRACTOR TO PROVIDE BMP'S FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
56. "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT."
57. APPROVED PLANS AND NPDES DAILY LOG MUST BE ON SITE AT ALL TIMES.
58. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.
59. PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS TO PREVENT STORM WATER DISCHARGES ON THE SITE.
a. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.
b. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.
c. NRC PHONE # 1-800-424-8802.

EROSION, SEDIMENTATION AND POLLUTION CONTROL PREPARATION CERTIFICATION:
"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

OWNER: _____ DATE: _____

EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CERTIFICATION:
"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

KDWH 6/16/2022
REGISTERED PROFESSIONAL: KEVIN D WHIGHAM, P.E. DATE:
GSWCC LEVEL II DESIGN CERTIFICATION # 945 EXP: 9-27-2023

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

KDWH 6/16/2022
KEVIN D WHIGHAM, P.E. - GSWCC LEVEL II CERTIFICATION # 945 EXP: 9-27-2023 DATE:

WETLANDS 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 WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.

KDWH 6/16/2022
REGISTERED PROFESSIONAL: KEVIN D WHIGHAM, P.E. DATE:

DESIGN PROFESSIONAL 7 DAY VISIT CERTIFICATION
DATE OF INSPECTION:
I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION

REGISTERED PROFESSIONAL: KEVIN D WHIGHAM, P.E. DATE:
GSWCC LEVEL II DESIGN CERTIFICATION # 945 EXP: 9-27-2023

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN:

THESE DISCREPANCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

24 HOUR CONTACT
CITY OF DACULA
BRITNI NIX
BRITNI.NIX@DACULAGA.GOV
770-963-7451



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WWW.BOWMANCCM.COM

CITY OF DACULA

P.O. BOX 400
DACULA, GEORGIA 30019

PROJECT:
MCMILLAN ROAD STORMWATER IMPROVEMENTS PROJECT

DETECT: 5
LANDACCT: 302
WINNETT COUNTY, GEORGIA

DATE	DESCRIPTION
06/24/2022	BID

JOB NO: 22-030
DRAWN BY: RAWH
CHECKED BY: KDWH

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EROSION, SEDIMENT & POLLUTION CONTROL PLAN
NOTE
C500

PHASE-I EROSION NOTES:

1. DISTURBED AREA TO INSTALL INITIAL PHASE BMPs: 0.83 AC
2. SEDIMENT STORAGE REQUIRED FOR PHASE I: 0.83 AC * 67 CY/AC = 55.61 CY.
3. TOTAL SEDIMENT STORAGE REQUIRED BY PHASE-I BMPs: 55.61 CY

PHASE-I SEDIMENT STORAGE: SILT FENCE

LENGTH OF SILT FENCE: 435 LF
 LENGTH X (4/3) = SEDIMENT STORAGE
 PROVIDED SEDIMENT STORAGE: 145 CY

55.61 CY REQUIRED < 58.29 CY PROPOSED SEDIMENT STORAGE

PHASE I - INITIAL CLEARING PHASE:

Erosion Control Notes

1. PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
2. THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
3. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.
4. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
6. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
7. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
8. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
9. THE CONSTRUCTION EXITS, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6-INCH THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAIN ON A GEOTEXTILE UNDERLINE. THE GEOTEXTILE UNDERLINE SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3, SEPARATION REQUIREMENTS.
10. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE / EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
11. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-202. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHED 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SIAD FENCING SHOULD BE REPAIRED IMMEDIATELY.
12. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.
13. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
14. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
15. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUN OFF.
16. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.
17. NO BURN OF BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE.
18. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARINGS. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
19. ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.
20. ALL ITEMS IN THIS SECTION OF THE SPECIFICATION SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 164 OF THE GEORGIA D.O.T STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
21. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
22. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
23. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1" - 3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
24. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
25. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL 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. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
26. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
27. ALL AD VALOREM TAXES HAVE BEEN PAID.
28. ALL UNDISTURBED BUFFERS SHALL BE IDENTIFIED WITH ORANGE FOUR-FOOT TREE-SAVE FENCE PRIOR TO ANY LAND DISTURBANCE.



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OWNER: CITY OF DACULA
 P.O. BOX 400
 DACULA, GEORGIA 30019

PROJECT: MCMILLAN ROAD STORMWATER IMPROVEMENTS PROJECT
 DISTRIC: 5
 GWINNETT COUNTY, GEORGIA

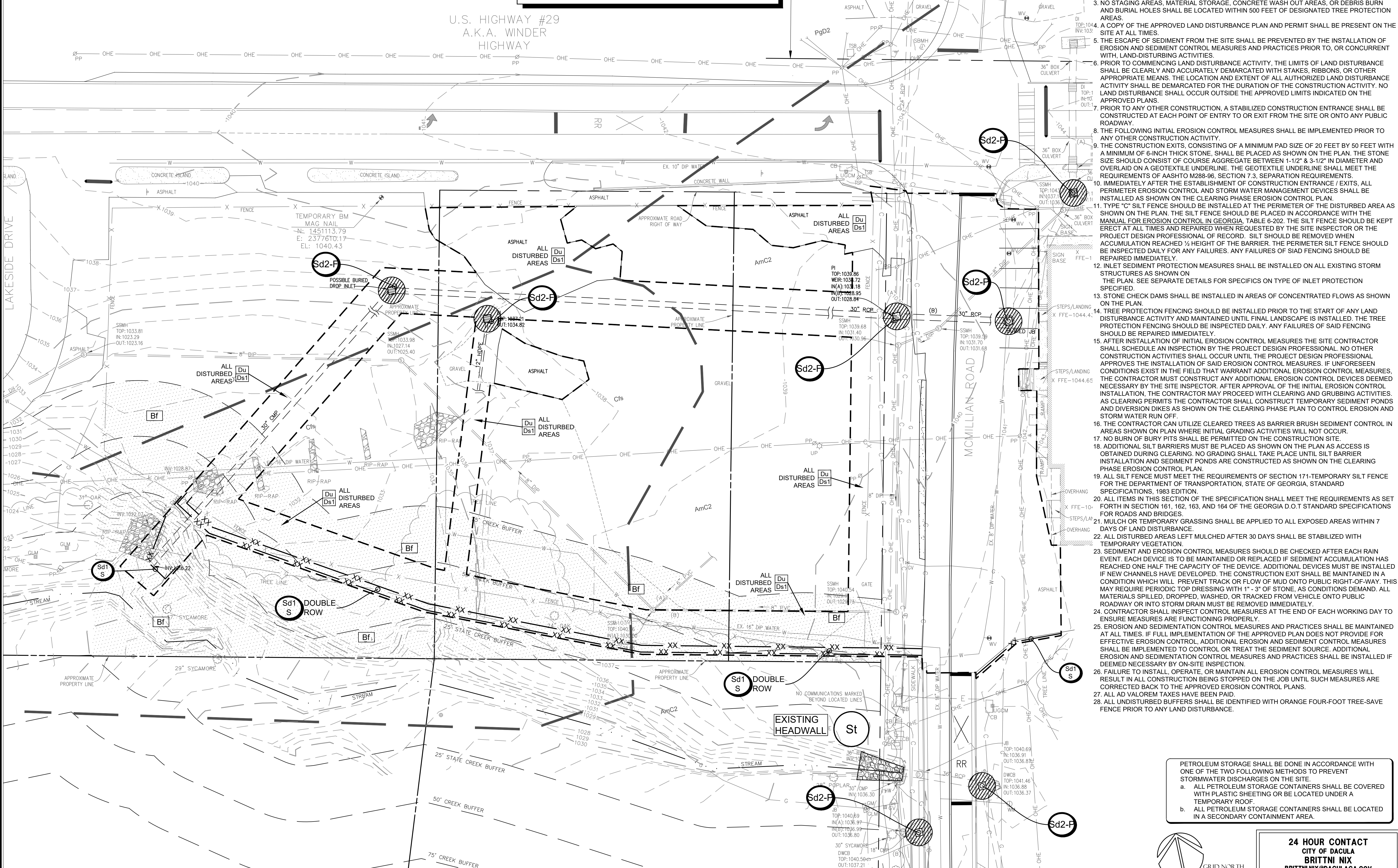
DATE	DESCRIPTION
06/24/2022	BID

JOB NO: 22-030
 DRAWN BY: RWJ
 CHECKED BY: KDW

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EROSION, SEDIMENT & POLLUTION CONTROL PLAN
 PHASE - I
C510

U.S. HIGHWAY #29
 A.K.A. WINDER
 HIGHWAY



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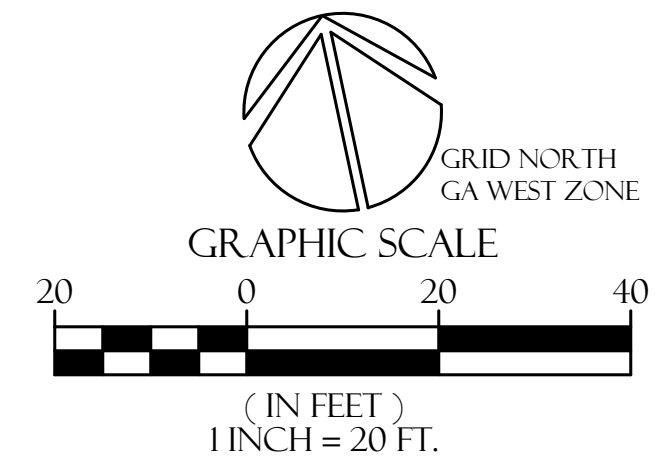
AREAS:
 TOTAL SITE AREA = ±0.83 ACRES
 DISTURBED AREA = ±0.83 ACRES

NOTIFY CITY OF DACULA INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION (770) 963-7451

SOILS INFO:
 AmC2 APPLING SANDY LOAM, 6 TO 10 PERCENT SLOPES, MODERATELY ERODED.
 Cts CHEWACLA SILT LOAM, 0 TO 2 PERCENT SLOPES, FREQUENTLY FLOODED.
 PgD2 PACOLET SANDY CLAY LOAM, 10 TO 15 PERCENT SLOPES, MODERATELY ERODED.

PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORMWATER DISCHARGES ON THE SITE.

- a. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.
- b. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.



24 HOUR CONTACT
 CITY OF DACULA
 BRITNI NIX
 BRITTNIX@DACULAGA.GOV
 770-963-7451

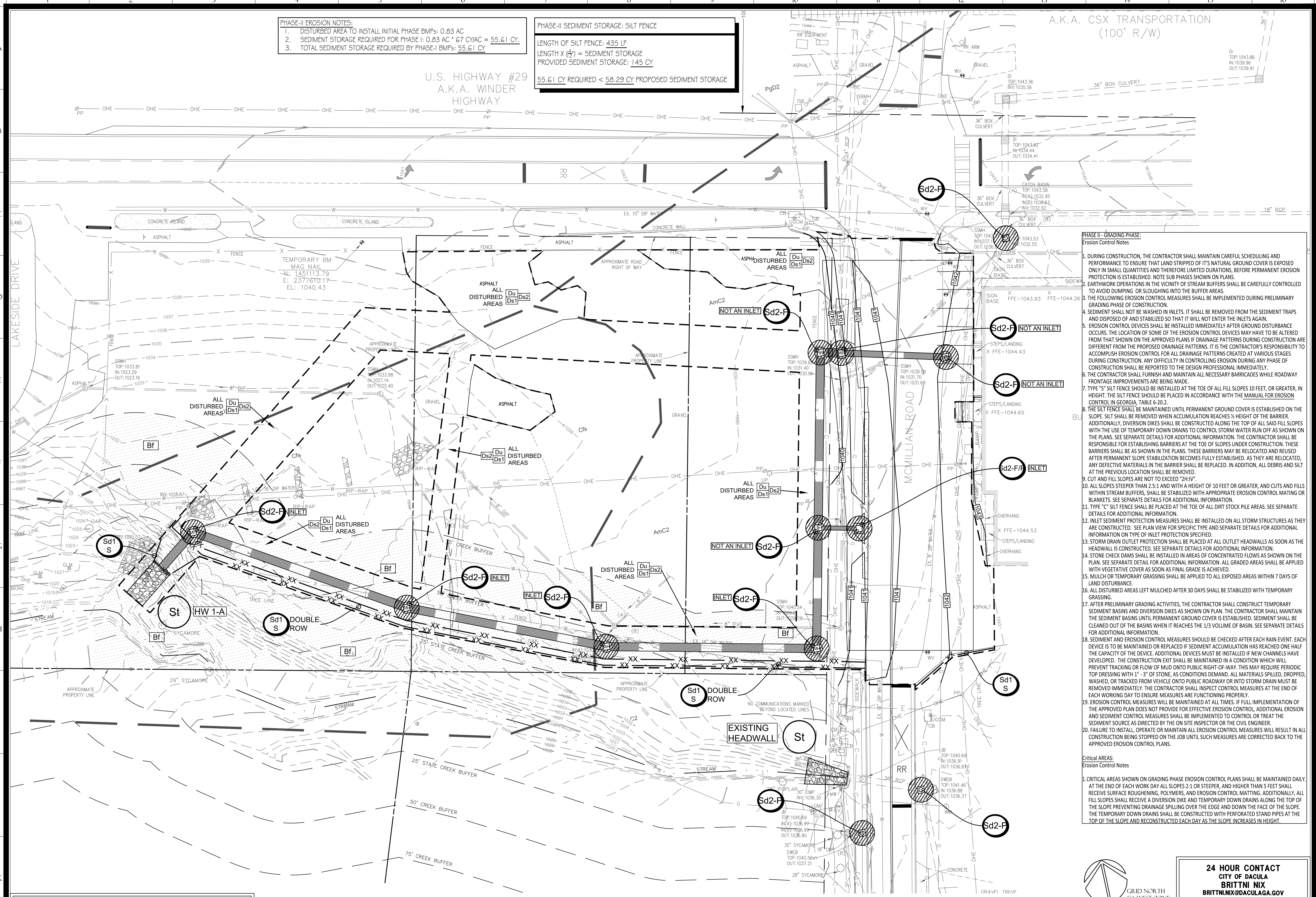
811 Know what's below.
 Call before you dig.

PHASE-II EROSION NOTES:
 1. DISTURBED AREA TO INSTALL INITIAL PHASE BMPs: 0.83 AC
 2. SEDIMENT STORAGE REQUIRED FOR PHASE I: 0.83 AC * 67 CY/AC = 55.61 CY
 3. TOTAL SEDIMENT STORAGE REQUIRED BY PHASE-I BMPs: 55.61 CY

PHASE-II SEDIMENT STORAGE: SILT FENCE
 LENGTH OF SILT FENCE: 435 LF
 LENGTH X (1/4") = SEDIMENT STORAGE
 PROVIDED SEDIMENT STORAGE: 145 CY
 55.61 CY REQUIRED < 58.29 CY PROPOSED SEDIMENT STORAGE

A.K.A. CSX TRANSPORTATION
 (100' R/W)

U.S. HIGHWAY #29
 A.K.A. WINDER
 HIGHWAY



PHASE II - GRADING PHASE:
 Erosion Control Notes

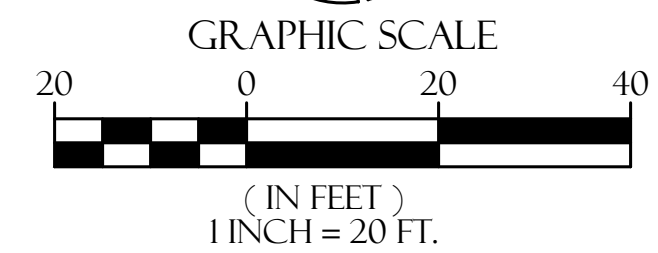
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.
- EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
- THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING PRELIMINARY GRADING PHASE OF CONSTRUCTION.
- SEDIMENT SHALL NOT BE WASHED IN INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
- TYPE "S" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET, OR GREATER, IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2.
- THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN OFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.
- CUT AND FILL SLOPES ARE NOT TO EXCEED "2H:1V".
- ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF 10 FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATING OR BLANKETS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- TYPE "C" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.
- STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION. ALL GRADDED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT BASINS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE BASINS WHEN IT REACHES THE 1/3 VOLUME OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1" - 3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

Critical Areas:
 Erosion Control Notes

- CRITICAL AREAS SHOWN ON GRADING PHASE EROSION CONTROL PLANS SHALL BE MAINTAINED DAILY. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER, AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT.

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 a. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.
 b. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.



24 HOUR CONTACT
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 770-963-7451



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OWNER:
 CITY OF DACULA
 P.O. BOX 400
 DACULA, GEORGIA 30019

PROJECT:
 MCMILLAN ROAD STORMWATER
 IMPROVEMENTS PROJECT
 DISTRICT: 5
 LANDACCT: 302
 GWINNETT COUNTY, GEORGIA

DATE	DESCRIPTION
10/24/2022	BID

JOB NO: 22-030
 DRAWN BY: RWJ
 CHECKED BY: KDW

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EROSION &
 POLLUTION
 CONTROL PLAN
 PHASE - II
C520

PHASE I-III EROSION NOTES:
 1. DISTURBED AREA TO INSTALL INITIAL PHASE BMPs: 0.83 AC
 2. SEDIMENT STORAGE REQUIRED FOR PHASE I: 0.83 AC * 67 CY/AC = 55.61 CY
 3. TOTAL SEDIMENT STORAGE REQUIRED BY PHASE-I BMPs: 55.61 CY

PHASE I-III SEDIMENT STORAGE: SILT FENCE
 LENGTH OF SILT FENCE: 435 LF
 LENGTH $X (\frac{1}{2}) =$ SEDIMENT STORAGE
 PROVIDED SEDIMENT STORAGE: 145 CY
 55.61 CY REQUIRED < 58.29 CY PROPOSED SEDIMENT STORAGE

U.S. HIGHWAY #29
 A.K.A. WINDER
 HIGHWAY

SEABOARD COASTLINE RAILROAD
 A.K.A. CSX TRANSPORTATION
 (100' R/W)



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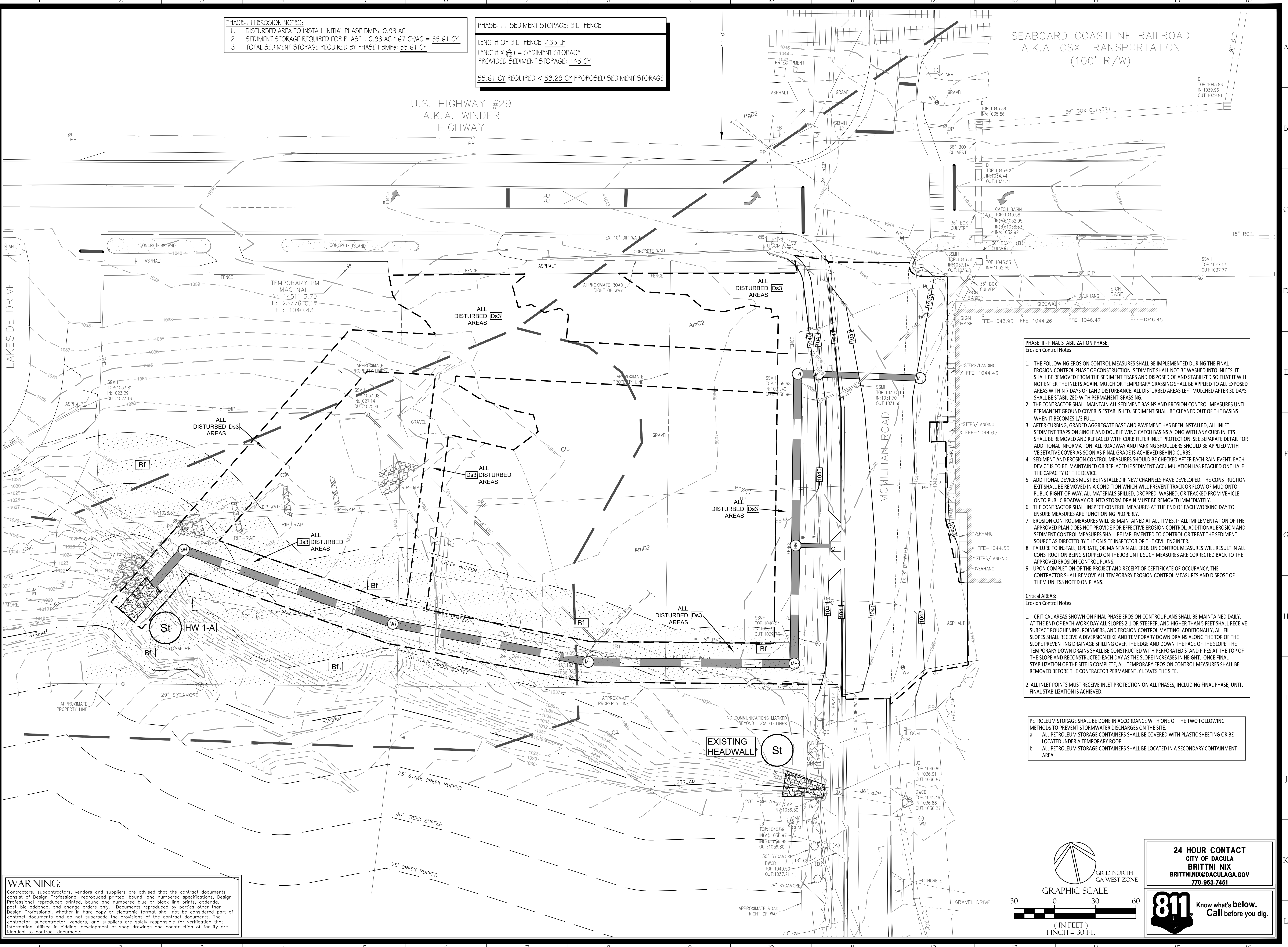
PROJECT:
 MCMILLAN ROAD STORMWATER
 IMPROVEMENTS PROJECT
 DRAFT: 5
 LANDSCOT: 302
 GWINNETT COUNTY, GEORGIA

DATE	DESCRIPTION
06/24/2022	BID

JOB NO: 22-030
 DRAWN BY: RWB
 CHECKED BY: KDW

EROSION &
 POLLUTION
 CONTROL PLAN
 PHASE - III
C530

P:\2022\0310\CD\SHEET FILES\22-0310-D-01-ES3.dwg Jun 21, 2022 - 8:19am



PHASE III - FINAL STABILIZATION PHASE:
 Erosion Control Notes

1. THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH PERMANENT GRASSING.
2. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT BASINS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE BASINS WHEN IT BECOMES 1/3 FULL.
3. AFTER CURBING, GRADED AGGREGATE BASE AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
4. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
5. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. THE CONSTRUCTION EXIT SHALL BE REMOVED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
6. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
7. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF ALL 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
8. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
9. UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

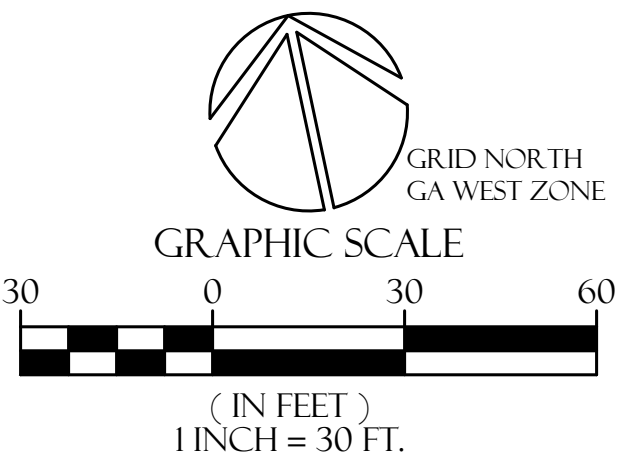
Critical Areas:
 Erosion Control Notes

1. CRITICAL AREAS SHOWN ON FINAL PHASE EROSION CONTROL PLANS SHALL BE MAINTAINED DAILY. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER, AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT. ONCE FINAL STABILIZATION OF THE SITE IS COMPLETE, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BEFORE THE CONTRACTOR PERMANENTLY LEAVES THE SITE.
2. ALL INLET POINTS MUST RECEIVE INLET PROTECTION ON ALL PHASES, INCLUDING FINAL PHASE, UNTIL FINAL STABILIZATION IS ACHIEVED.

PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORMWATER DISCHARGES ON THE SITE.

- a. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.
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MULCHING APPLICATION REQUIREMENTS

MATERIAL	RATE	DEPTH
STRAW OR HAY	2 1/2 TON/ACRE	2" TO 4"
WOOD WASTE, CHIPS, SAWDUST, BARK	6 TO 9 TON/ACRE	2" TO 3"
POLYETHYLENE FILM	SECURE WITH SOIL, ANCHORS, WEIGHTS	---
CUTBACK ASPHALT	SEE MANUFACTURER'S RECOMMENDATIONS	---
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	SEE MANUFACTURER'S RECOMMENDATIONS	---

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
N.T.S.

SPECIES	BROADCAST RATES 2" - PLS 3" PER 1000 SQ. FT.	RESOURCE AREA	PLANTING DATES BY RESOURCE AREA	REMARKS
LINDSEY MEADOW (Elymus ovatus)	4 ba 0.1 b	M-L, C	J F M A M J J A S O N D	1,500,000 SEED PER POUND MAY LAST FOR SEVERAL YEARS WITH SEEDBANK LONGEVITY
IN MIXTURES	2 ba 0.05 b			
PIE (Scheda cernua)	3 ba 3.9 b	M-L, P, C	J F M A M J J A S O N D	18,000 SEED PER POUND QUICK COVER, DROUGHT TOLERANT AND WINTER HARD.
ALONE	1/2 ba 0.8 b			
IN MIXTURES	20 ba			
HYDRIC, ANNUAL (Lolium temutum)	40 ba 0.9 b	M-L, P, C	J F M A M J J A S O N D	272,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
ALONE				

Ds2 PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER CROPS PER GREEN BOOK TABLE 6-4.1

SPECIES	BROADCAST RATES 2" - PLS 3" PER 1000 SQ. FT.	RESOURCE AREA	PLANTING DATES BY RESOURCE AREA	REMARKS
BENEDICA, COMMON (Sisymbrium officinalis)	10 ba 0.2 b	P, C	J F M A M J J A S O N D	1,700,000 SEED PER POUND QUICK COVER, LOW GROWING AND SOIL FORMING. USE SOIL GOOD FOR ATHLETIC FIELDS.
WITH OTHER PERENNIALS	6 ba 0.7 b			
BENEDICA SPICATA (Sisymbrium spicatum)	40 CUIT. @ 8" CUIT. OR 500 PLUGS 3" x 3"	M-L, P, C	J F M A M J J A S O N D	A CLUMP FOOT CONTAINS APPROX. 400 SPICATA BUDS. CONTAINS 1.25 CUIT. OF APPROX. 800 SPICATA.
CONSTA, COMMON (Sisymbrium officinalis)	50 ba 1.1 b	M-L, P, C	J F M A M J J A S O N D	SAME AS ABOVE
WITH OTHER PERENNIALS	30 ba 0.7 b			
FESCUE, TALL (Festuca arvensis)	50 ba 1.1 b	M-L, P, C	J F M A M J J A S O N D	227,000 SEED PER POUND USE AS SOIL FORMER IN BETTER SITES BY PERENNIAL SPECIES OF CONCENTRATED PLANTING IN SPRING FOLLOWING FALL PLANTING NOT FOR SOIL USE IN ATHLETIC FIELDS.
ALONE				

Ds3 PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER PER GREEN BOOK TABLE 6-5.2

LIME AND FERTILIZER - RATES AND ANALYSIS

A. WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED, AGRICULTURAL LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT THE RATE OF 1 TO 2 TONS PER ACRE. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE. LIME SPREAD BY CONVENTIONAL EQUIPMENT CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE, NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 20-MESH SIEVE. AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT LIMESTONE. FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 98 PERCENT OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70 PERCENT WILL PASS THROUGH 100-MESH SIEVE. IT IS DESIRABLE TO USE DOLOMITIC LIMESTONE IN THE SAND HILLS, SOUTHERN COASTAL PLAIN AND ATLANTIC COAST FLATWOOD AREAS.

B. NO AGRICULTURAL LIME IS REQUIRED WHERE ONLY TEMPORARY SEEDING IS TO BE DONE OR WHERE ONLY TREES ARE PLANTED.

C. INITIAL FERTILIZATION REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES ARE LISTED IN TABLE 6-25.1, P 6-144. APPLY FERTILIZER: 5-10-15 @ 1500LBS/ACRE. (TYPICAL)

LIME FERTILIZER - APPLICATION

A. WHEN HYDRAULIC SEEDING EQUIPMENT IS USED:

1. THE INITIAL FERTILIZER WILL BE MIXED WITH SEED, INOCULANT (IF NEEDED) AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.

2. FINELY GROUND LIMESTONE WILL BE MIXED WITH WATER AND APPLIED IMMEDIATELY AFTER MULCHING IS COMPLETED OR IN COMBINATION WITH THE TOP DRESSING.

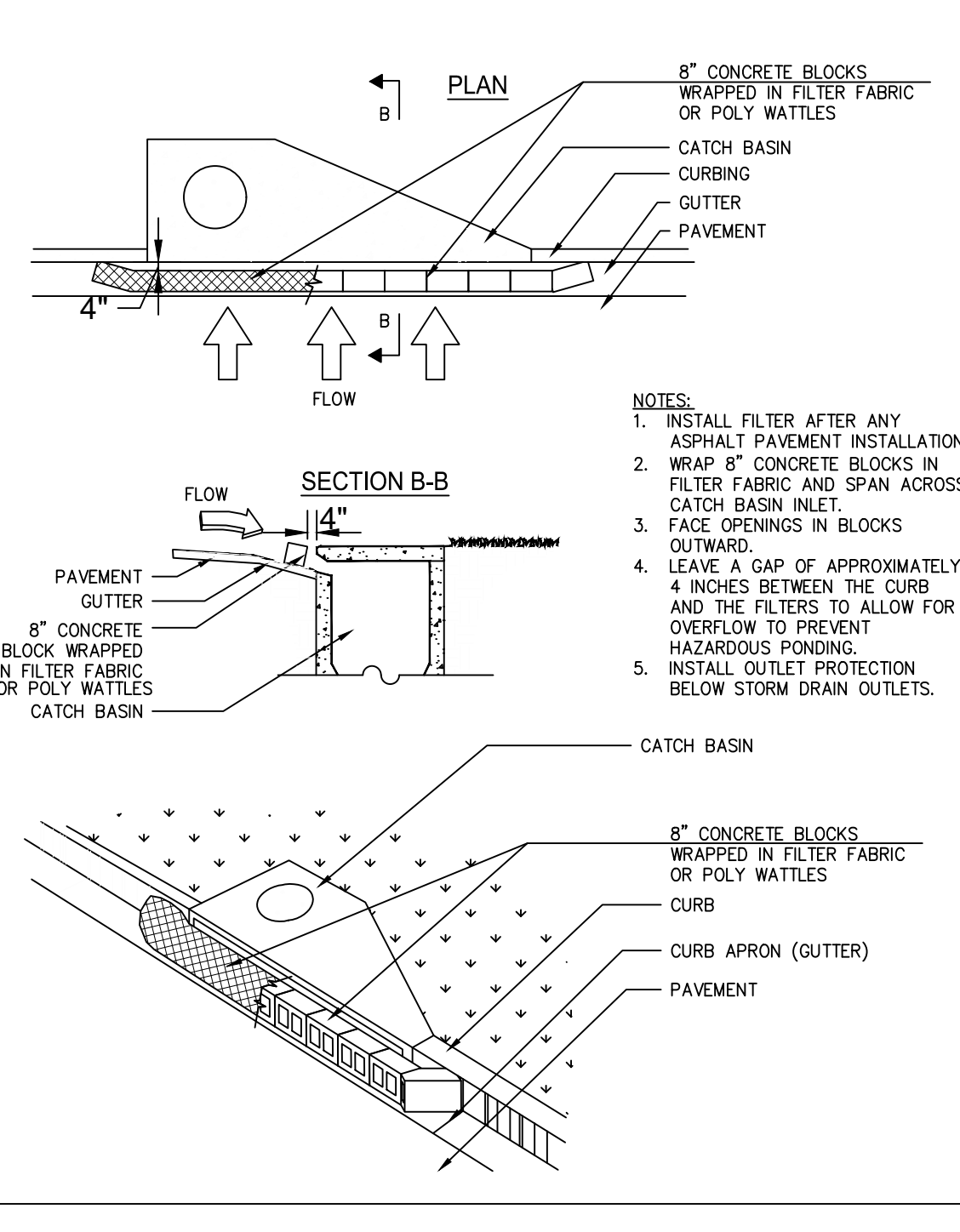
B. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER WILL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:

1. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED THE SOIL DURING SEEDBED PREPARATION OR;
2. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS, OR
3. BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
4. 'JA' FERTILIZER PELLETS WILL BE PLACED AT ROOT DEPTH BESIDE EACH PINE TREE SEEDLING.

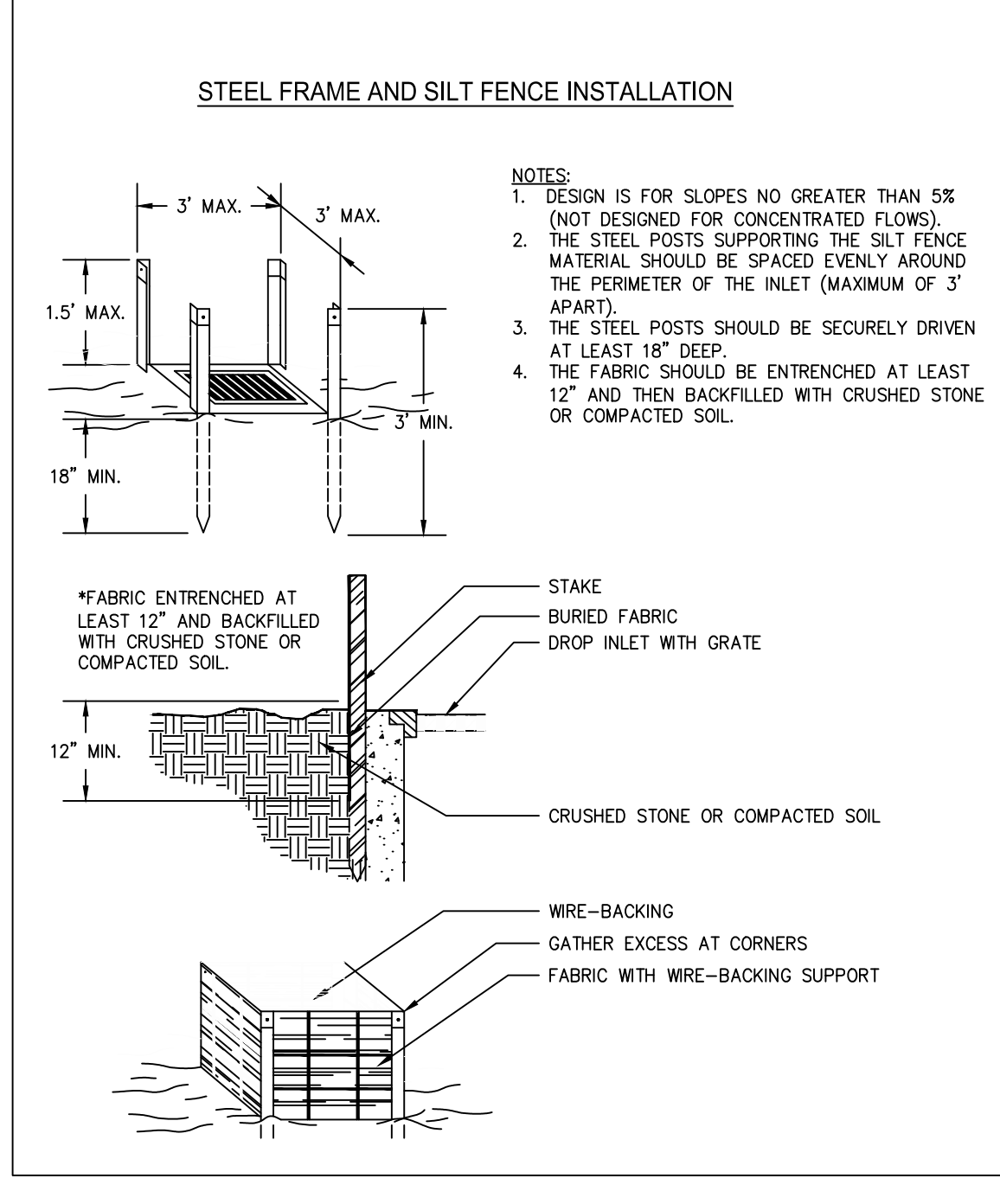
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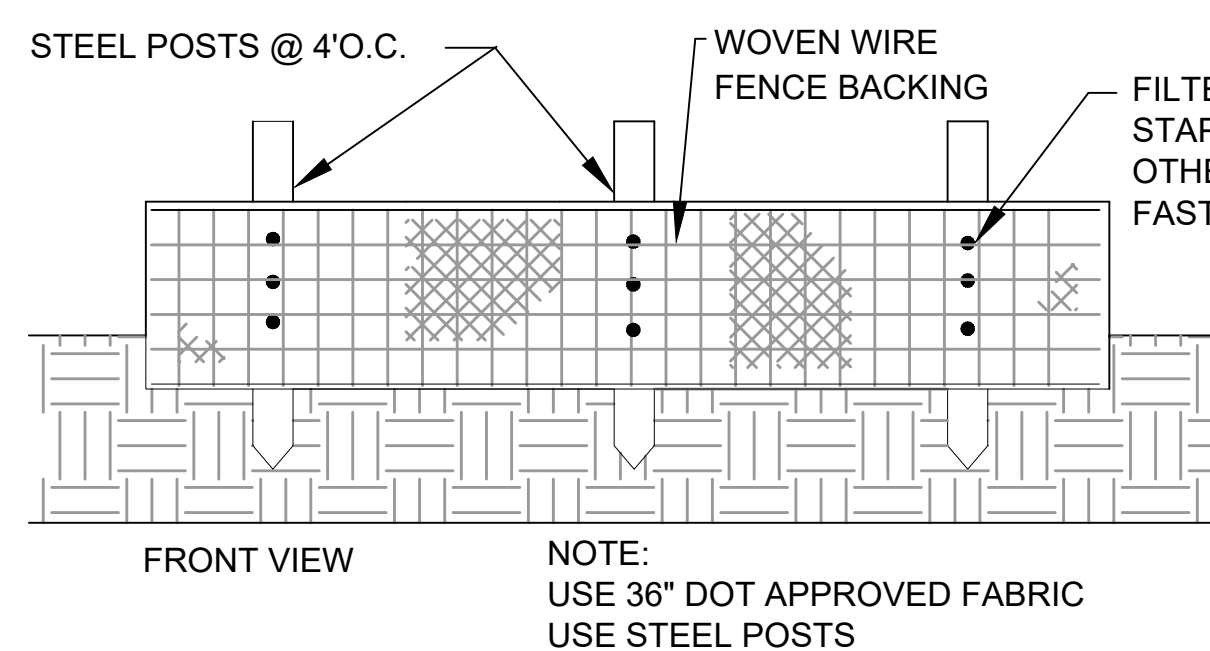
CURB INLET FILTER "PIGS IN BLANKET"



FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION



Sd2-P TEMP INLET SEDIMENT TRAP
N.T.S.



Sd2-F TEMP INLET SEDIMENT TRAP
N.T.S.

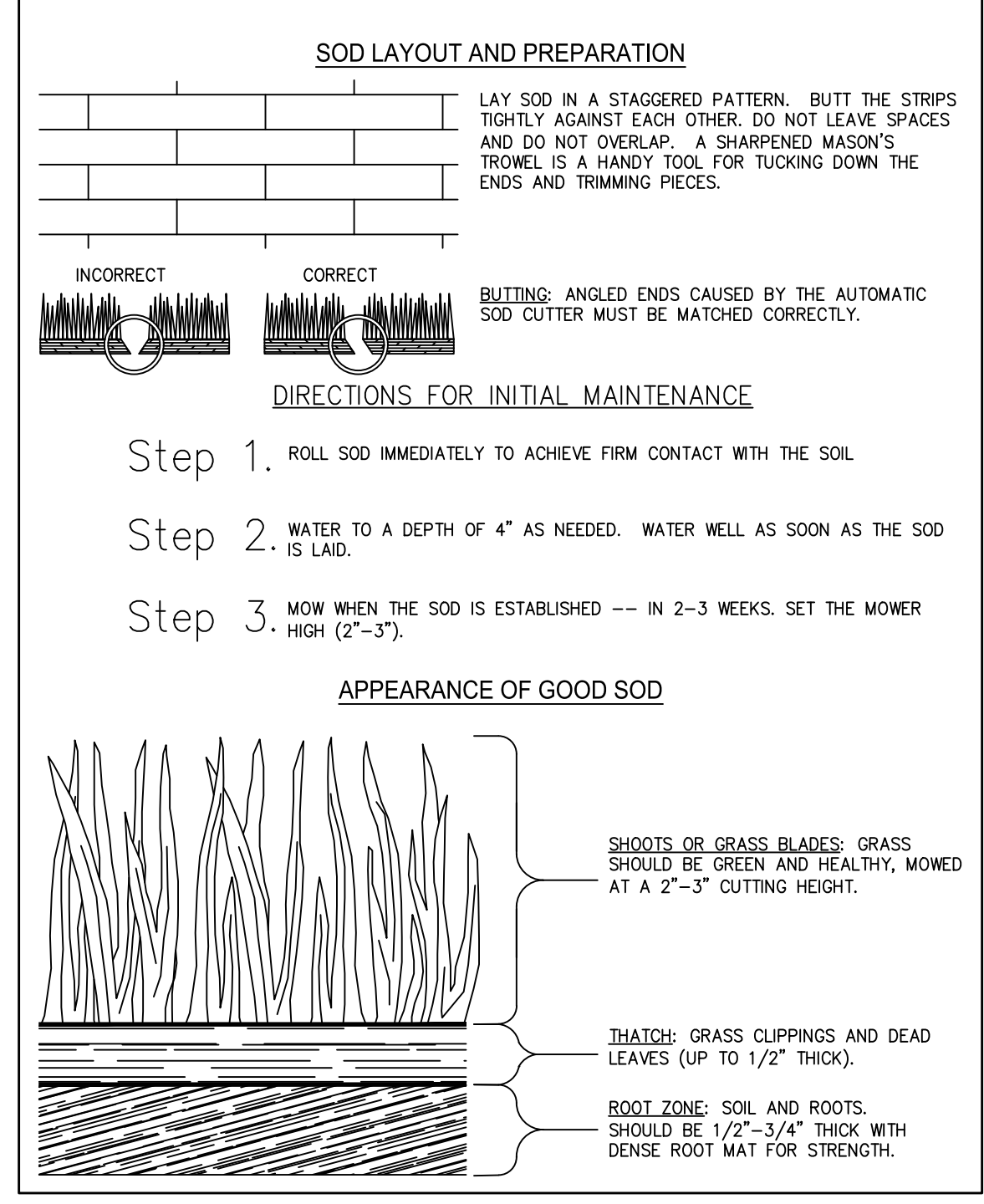
Sd1 EROSION CONTROL FENCING TYPE "S"
N.T.S.

SOD PLANTING REQUIREMENTS

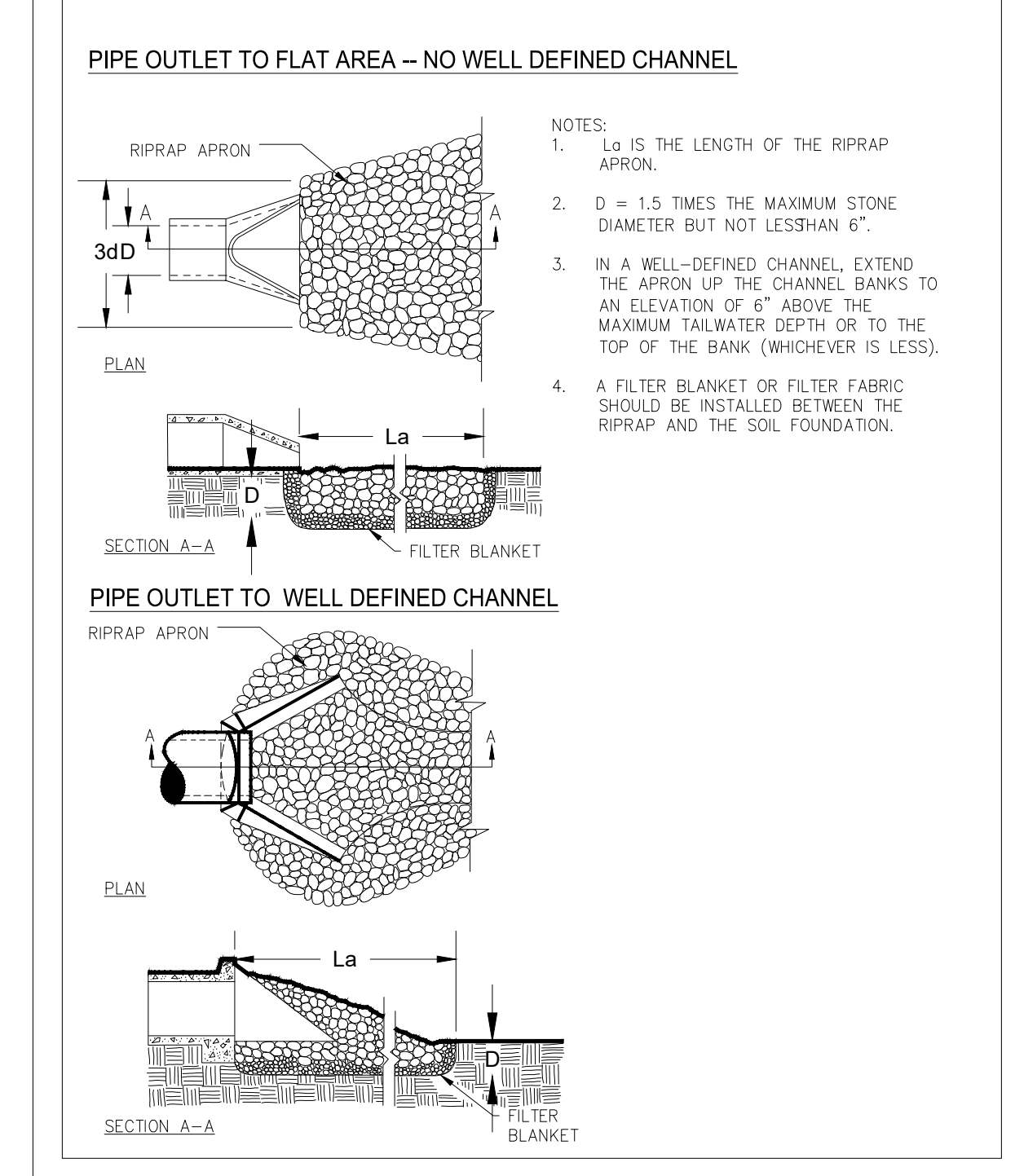
GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
BERMUDAGRASS	COMMON TIFWAY, TIFGREEN, TIFLAWN	M-L, P, C, P, C, P, C	WARM WEATHER
BABBIAGRASS	PENSACOLA	P, C	WARM WEATHER
CENTPEDE	---	P, C	WARM WEATHER
ST. AUGUSTINE	COMMON BITTERBLUE, RALEIGH	C	WARM WEATHER
ZOYSIA	EMERALD, MYER	P, C	WARM WEATHER
TALL FESCUE	KENTUCKY 31	M-L, P	COOL WEATHER

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)

SOD MAINTENANCE AND INSTALLATION



RIPRAP OUTLET PROTECTION



RIP-RAP SIZE CHART

STRUCTURES	D _o	FLOW RATE (CFS)	VELOCITY (FPS)	TAIL WATER	L _a	W ₁	W ₂	d ₅₀	d _{max}	D APRON THICKNESS
EXISTING HEADWALL	36"	.	.	MAX	20'	9.0'	23'	0.60'	0.90'	1.35'
PROPOSED HW 1-A	48"	.	.	MAX	30'	12'	36'	1.0	1.50	2.25

St OUTLET PROTECTION



ETRS-1 SINGLE SIDED STRAW BLANKET

Description: ETRS1 is a single sided erosion control blanket. It is manufactured from 100% Agricultural Wheat Straw mechanically bonded (stitched) onto one layer of medium-weight synthetic poly-propylene netting.

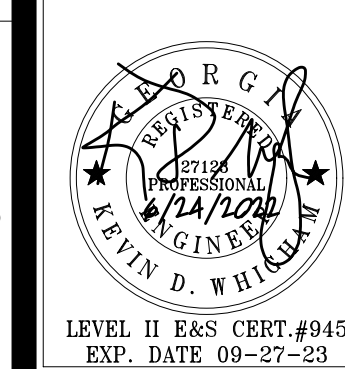
Specifications	8' wide	112.5' Long	100 syd
Roll Dimensions			
Netting	3/8"x3/8"	photodegradable synthetic medium weight	
Stitching	2" Centers		
Fiber Density	50lb/syd		
Product Code		MT-4	

VERIFIED VALUES		
DESCRIPTION	TEST METHOD	RESULT
TENSILE STRENGTH(lbin)	ASTM 6818	MD 9lb/in TD 3.3lb/in
GROUNDCOVER/LIGHT PENETRATION	ASTM D6567	80.6% / 19.4%
MASS	ASTM D6475	9.24 oz/syd
THICKNESS	ASTM 6525	382 mils
WATER ABSORBION	ASTM D1117	432%

Netting Properties	Medium Weight Green Netting
	3/8"x3/8" Mesh Size (Nominal)
	1.5+/-0.2PMSF Weight
	MD=14.6+/-4lb/5strands/3"
	TD=14.6+/-4lb/5strands/3"



For more information, contact:
105 Plant Camellia Road
Juliette, GA 31046
478.994.6009
314-C Industrial Park Drive
Waynesville, NC 28786
Phone: 828.452.6900
www.erosiontechusa.com



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CITY OF DACULA

PROJECT: MCMILLAN ROAD STORMWATER IMPROVEMENTS PROJECT

DATE	DESCRIPTION
06/24/2022	BID

JOB NO: 22-030
DRAWN BY: RAWH
CHECKED BY: KDW

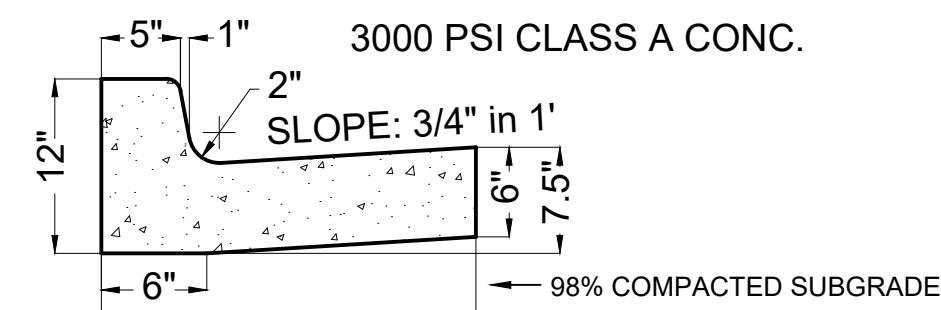
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EROSION, SEDIMENT & POLLUTION CONTROL PLAN DETAILS
C540

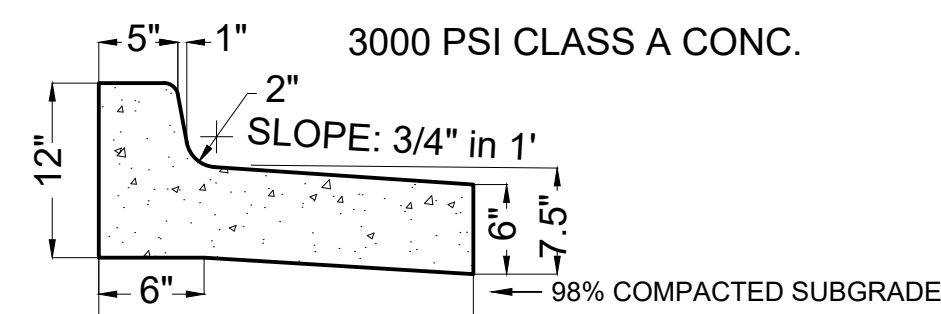
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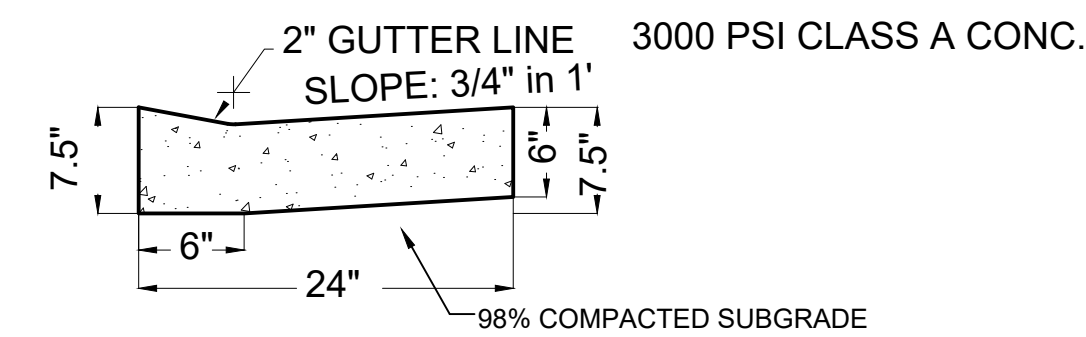
- NOTE:**
- MINIMUM OF 4" G.A.B. BASE UNDER CURB & GUTTER TYPICAL.
 - COMPACTED SUBGRADE A MINIMUM OF 98% MODIFIED PROCTOR.



A STANDARD 6" x 12" x 24" CONCRETE CURB AND GUTTER (C&G)

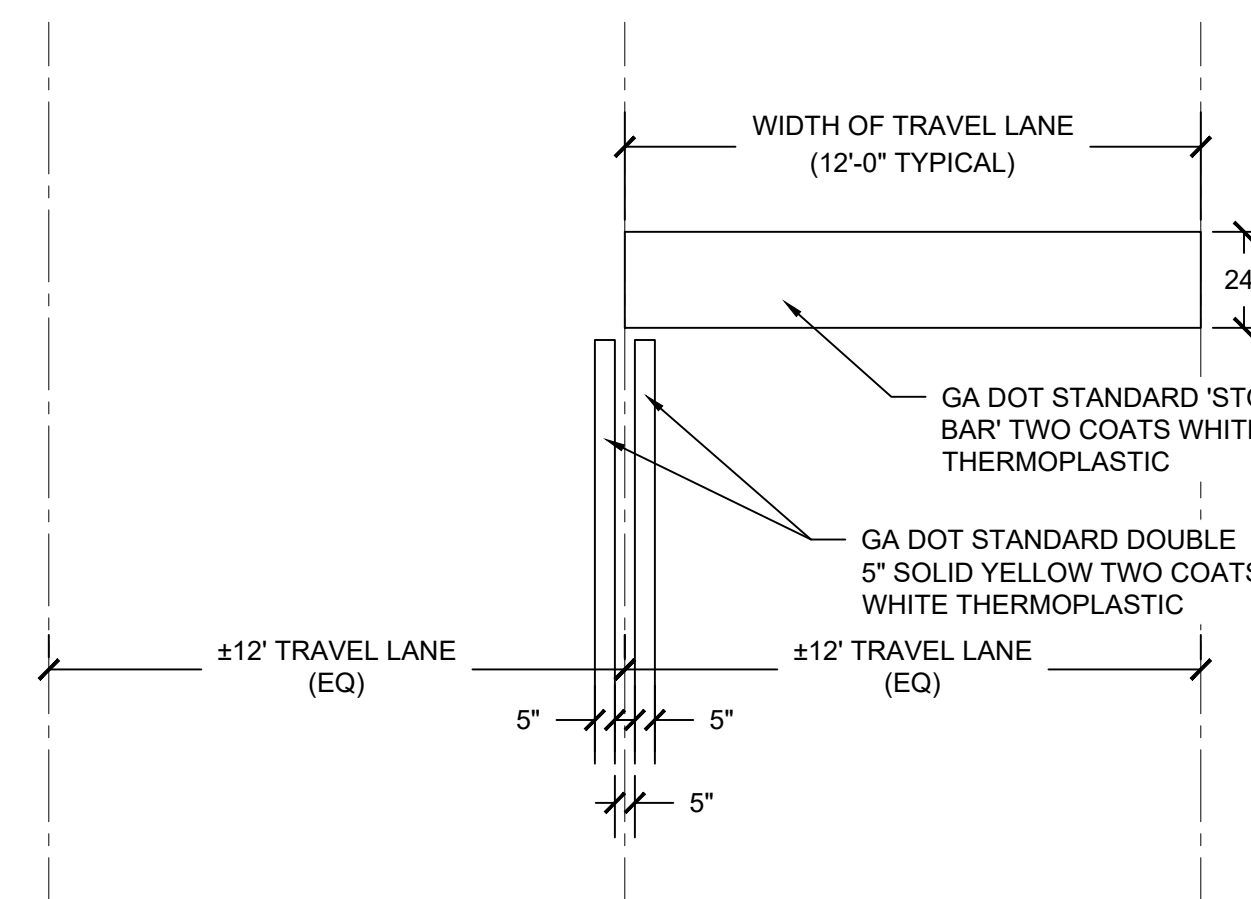


B STANDARD 6" x 12" x 24" SPILL CONCRETE CURB AND GUTTER (C&G)



C STANDARD 6" x 6" x 24" ZERO HEIGHT CONCRETE CURB

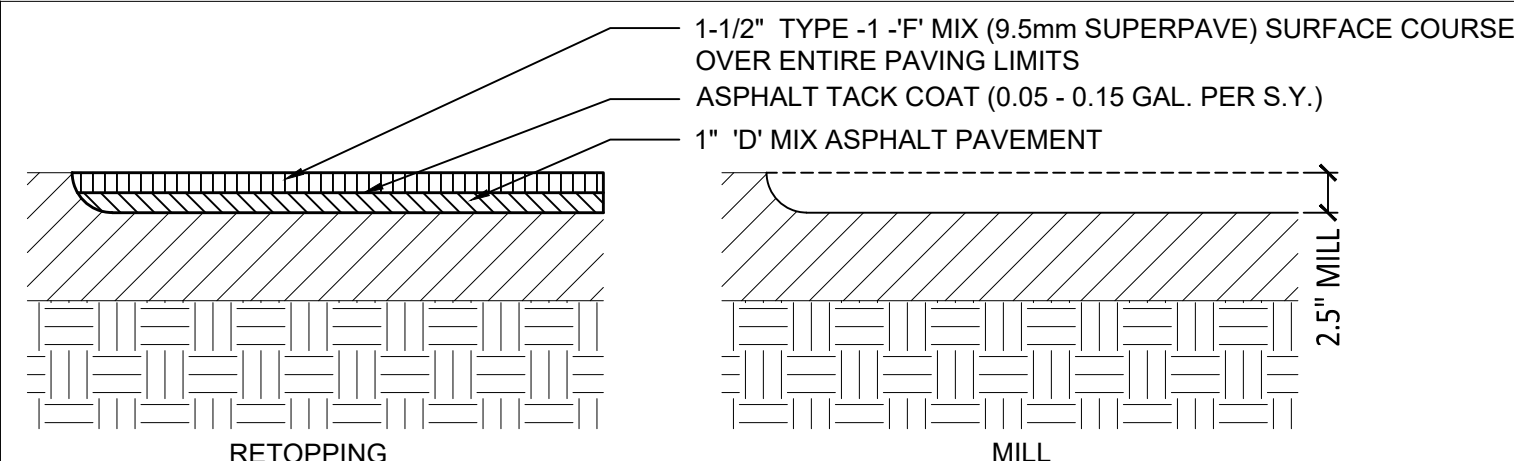
1 24" CONCRETE CURB & GUTTER C700 NTS



- NOTES:**
- ALL TRAFFIC TO BE INSTALLED PER GEORGIA DOT STANDARDS.
 - REFER TO GA DOT STANDARD 'T-11A'.
 - ALL STRIPING SHALL CONFORM TO LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND ANY SUPPLEMENTS THERETO.

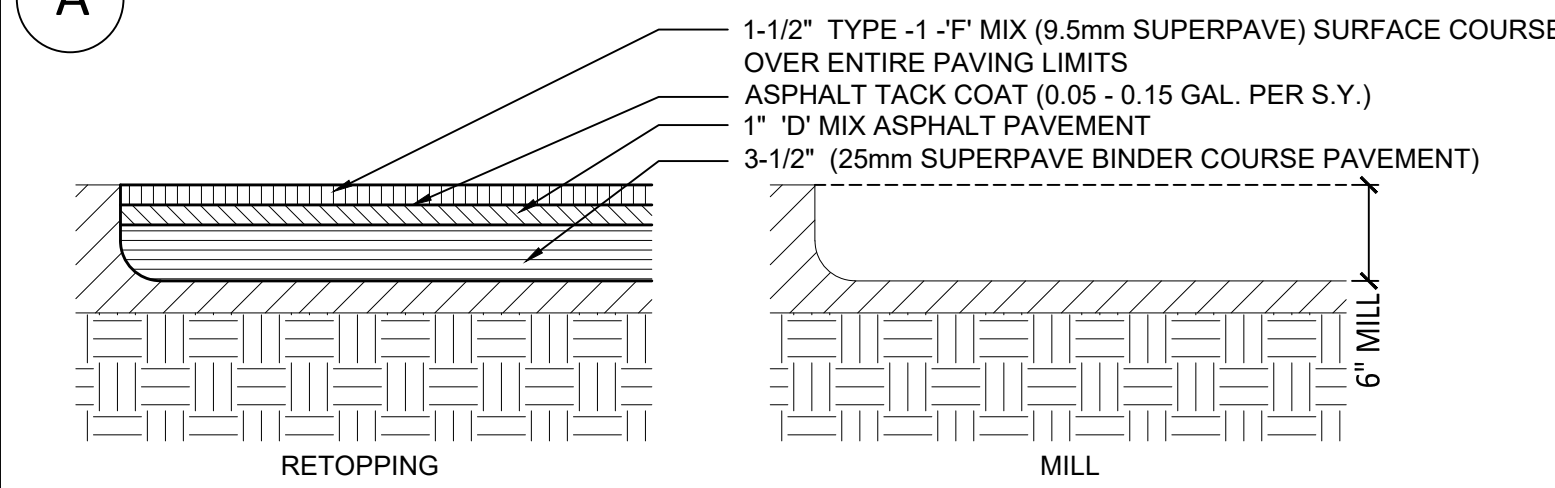
4 TRAFFIC MARKINGS C700 NTS

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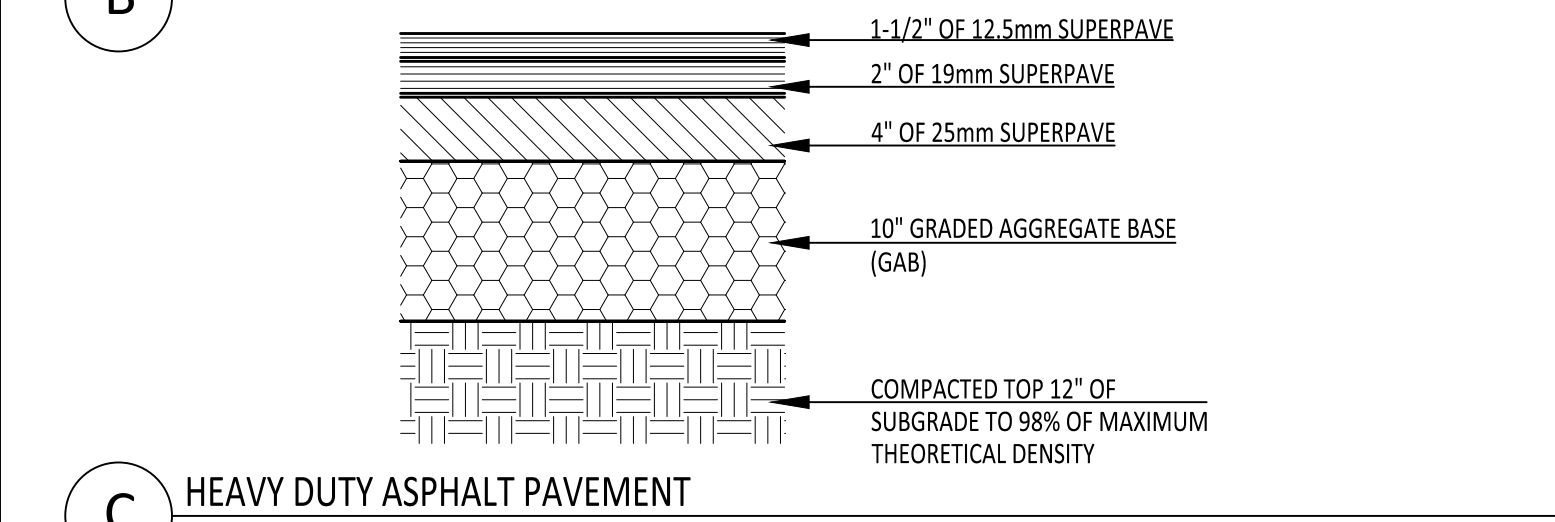
- NOTES:**
- 2.5" MILL EXISTING ASPHALT.
 - INSTALL 1" 'D' MIX OVER ENTIRE PAVING LIMITS.
 - INSTALL TACK COAT.
 - INSTALL 1-1/2" 'F' MIX (9.5mm SUPERPAVE) SURFACE COURSE.
 - RE-STRIP PAVEMENT AND PARKING MARKINGS TO MATCH EXISTING CONDITIONS.
 - REFER TO SHEET C100 FOR MILLING LIMITS AND C200 FOR PAVEMENT LIMITS.

A MILL & RE-TOPPING

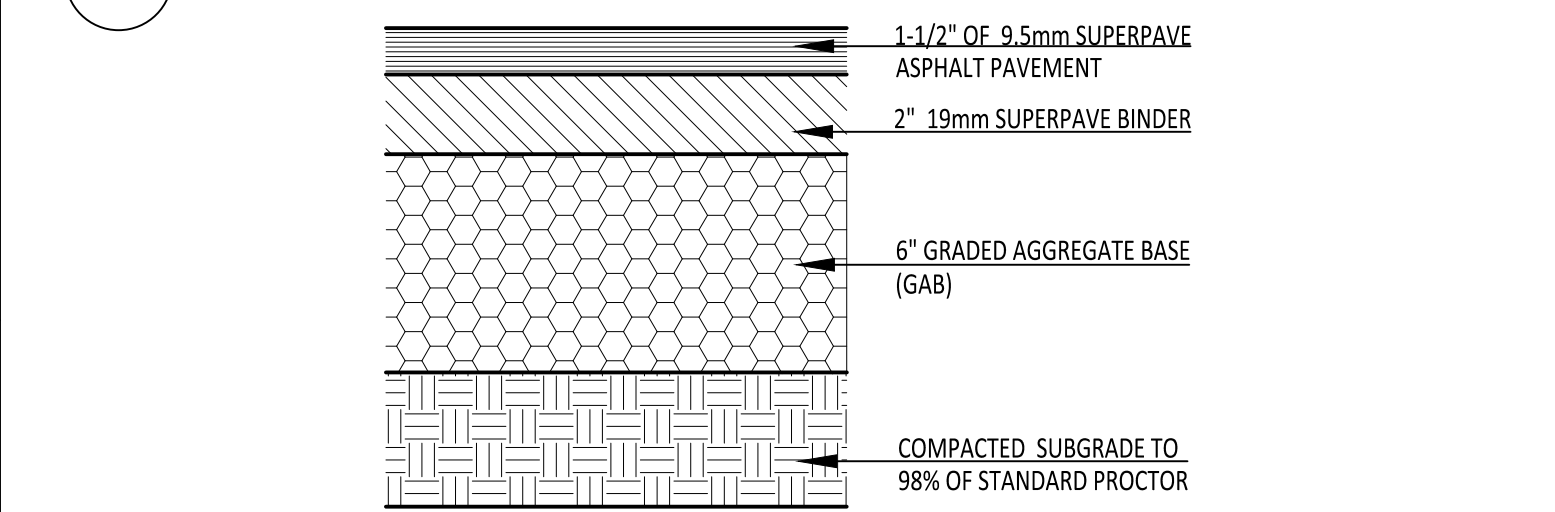


- NOTES:**
- 6" MILL EXISTING ASPHALT.
 - INSTALL 3-1/2" (25mm SUPERPAVE).
 - INSTALL 1" 'D' MIX OVER ENTIRE PAVING LIMITS.
 - INSTALL TACK COAT.
 - INSTALL 1-1/2" 'F' MIX (9.5mm SUPERPAVE) SURFACE COURSE.
 - RE-STRIP PAVEMENT AND PARKING MARKINGS TO MATCH EXISTING CONDITIONS.
 - REFER TO SHEET C100 FOR MILLING LIMITS AND C200 FOR PAVEMENT LIMITS.

B DEEP PATCH MILL & RE-TOPPING

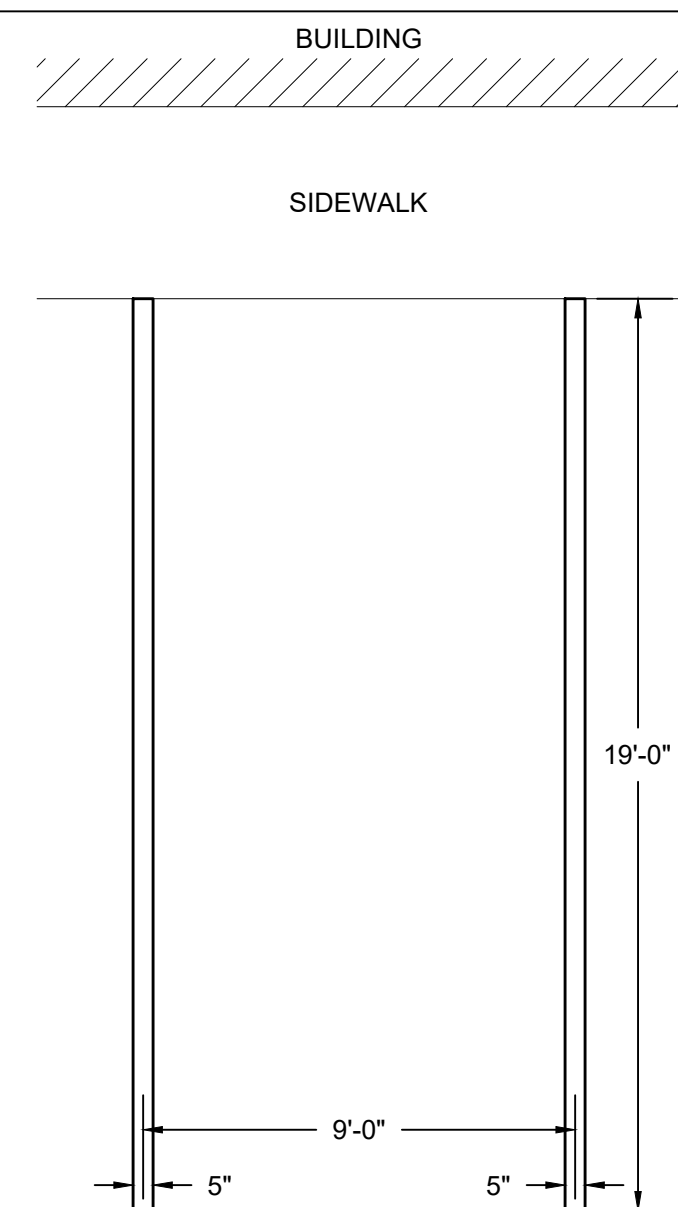


C HEAVY DUTY ASPHALT PAVEMENT



D STANDARD DUTY ASPHALT PAVEMENT

2 PAVEMENT DETAILS C700 N.T.S.



5 PARKING MARKINGS C700 NTS

TABLE 1: DIMENSIONS AND QUANTITIES FOR HEADWALL (HW) GADOT STD. 1001-B

OPENING	WALL	FOOTING	CLASS 'F' CONCRETE	STEEL REINFORCING
12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"
12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"

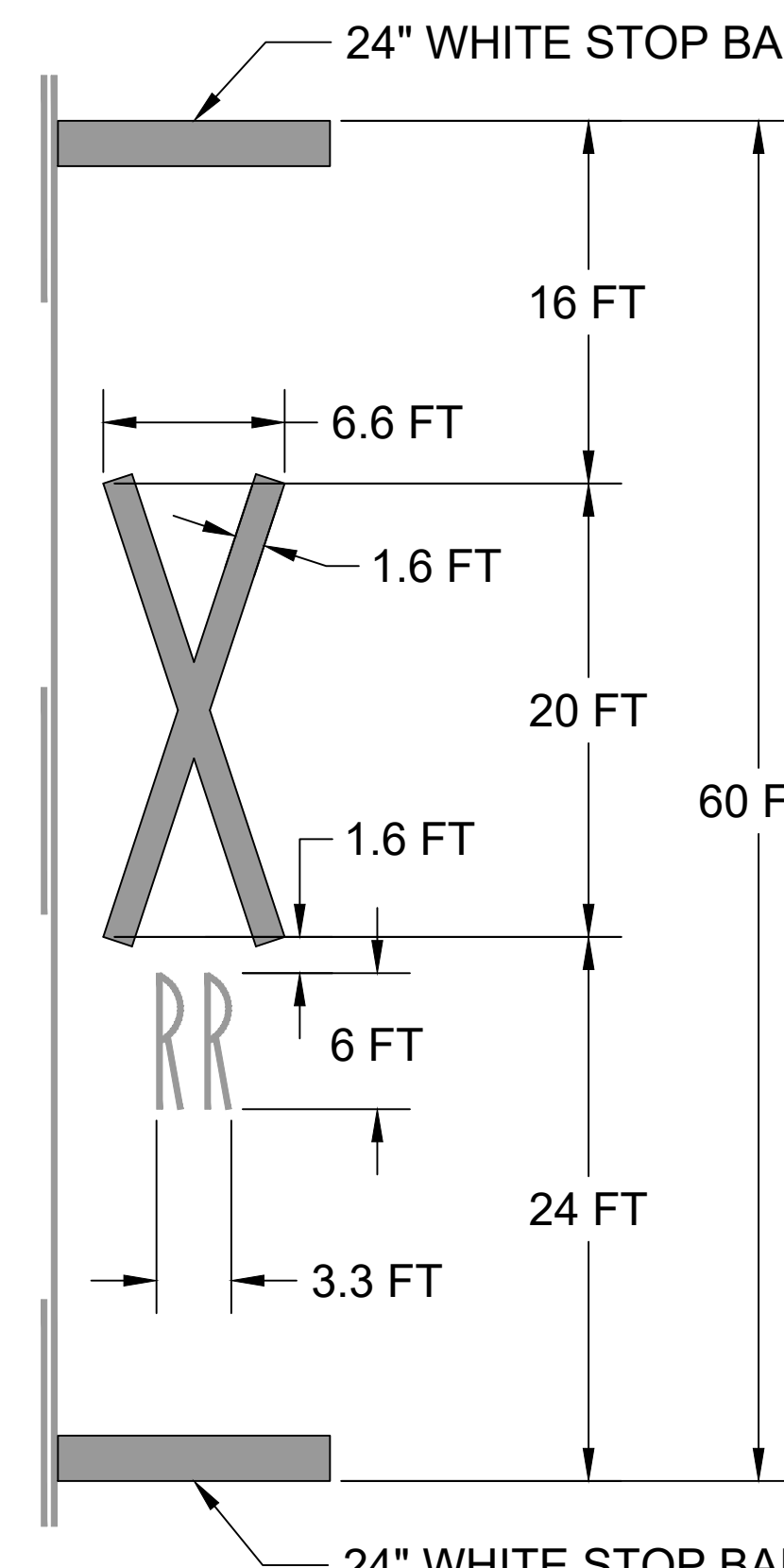
TABLE 2: DIMENSIONS AND QUANTITIES FOR HEADWALL (HW) GADOT STD. 1001-B

OPENING	WALL	FOOTING	CLASS 'F' CONCRETE	STEEL REINFORCING
12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"
12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"

TABLE 3: DIMENSIONS AND QUANTITIES FOR HEADWALL (HW) GADOT STD. 1001-B

OPENING	WALL	FOOTING	CLASS 'F' CONCRETE	STEEL REINFORCING
12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"
12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"	12' 0" x 12' 0"

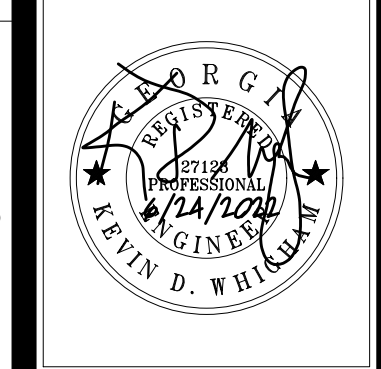
3 HEADWALL (HW) GADOT STD. 1001-B C700 N.T.S.



- NOTES:**
- REFER TO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION), RAILROAD GRADE CROSSING PAVEMENT MARKINGS PER MUTCD FIGURE 9B-7 (B).
 - TWO COATS OF WHITE THERMOPLASTIC.

6 RAILROAD GRADE CROSSING PAVEMENT MARKINGS C700 NTS

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CITY OF DACULA

OWNER: CITY OF DACULA

PROJECT: MCMILLAN ROAD STORMWATER IMPROVEMENTS PROJECT

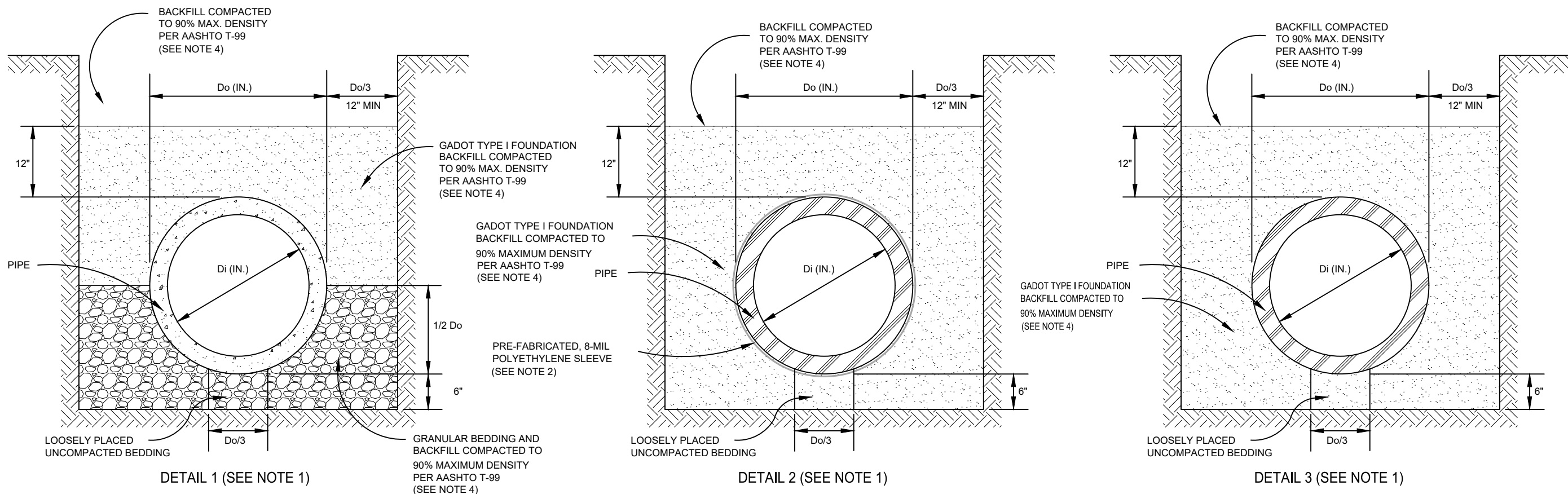
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CHECKED BY: KDW

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DETAILS

C700



- NOTES**
1. REPRESENTATIVE SOIL pH RESULTS SHALL BE PROVIDED FOR ALUMINIZED TYPE 2 STEEL OR REINFORCED CONCRETE PIPE WHERE THE SOIL TYPE, AS INDICATED IN THE GWINNETT COUNTY SOIL SURVEY, HAS A pH RANGE WITH pH VALUES LESS THAN 5. DETAIL 1 OR DETAIL 2 SHALL BE USED WHEN THE SOIL pH < 5. DETAIL 1 OR DETAIL 2 MAY BE USED IN LIEU OF SOIL pH TESTING FOR ALUMINIZED TYPE 2 STEEL OR REINFORCED CONCRETE PIPE. NO pH TESTING SHALL BE REQUIRED FOR HDPE, ALUMINUM PIPE, OR POLYMER PRECOAT CSP.
 2. PRE-FABRICATED, 8-MIL POLYETHYLENE SLEEVE SHALL BE SLIPPED OVER THE PIPE DURING INSTALLATION, OVERLAPPED WHERE NECESSARY, AND SECURED WITH POLYETHYLENE TAPE TO COMPLETELY PREVENT THE ENTRANCE OF SOILS.
 3. ALLOWABLE GRANULAR MATERIALS SHALL BE GRADED AGGREGATE BASE, CRUSHER RUN, GADOT FOUNDATION BACKFILL MATERIAL TYPE II, OR GADOT MECHANICALLY STABILIZED EMBANKMENT BACKFILL.
 4. BACKFILL SHALL BE COMPACTED TO 95% MAX DENSITY PER AASHTO T-99 WITHIN STREET RIGHT-OF-WAY.

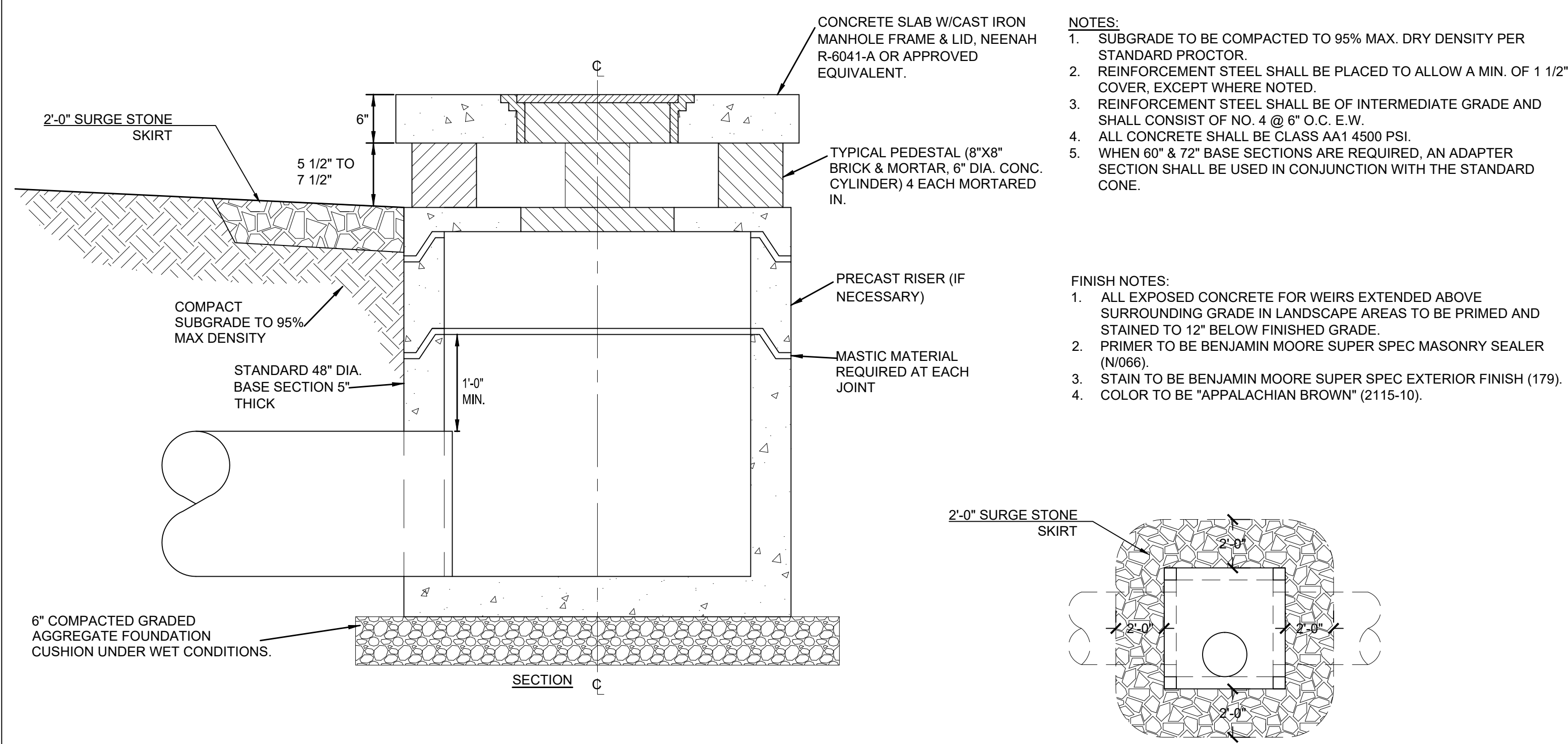
PIPE TYPE	BEDDING DETAIL			
	DETAIL 1 ALL pH RANGES	DETAIL 2 ALL pH RANGES	DETAIL 3 ALL pH RANGES	pH > 5
AL TYPE 2 CSP	X	X		X
POLYMER PRECOAT CSP	X	X	X	
ALUMINUM	X	X	X	
RCP	X	X		X
HDPE	X			

1 PIPE BEDDING

C701 N.T.S.

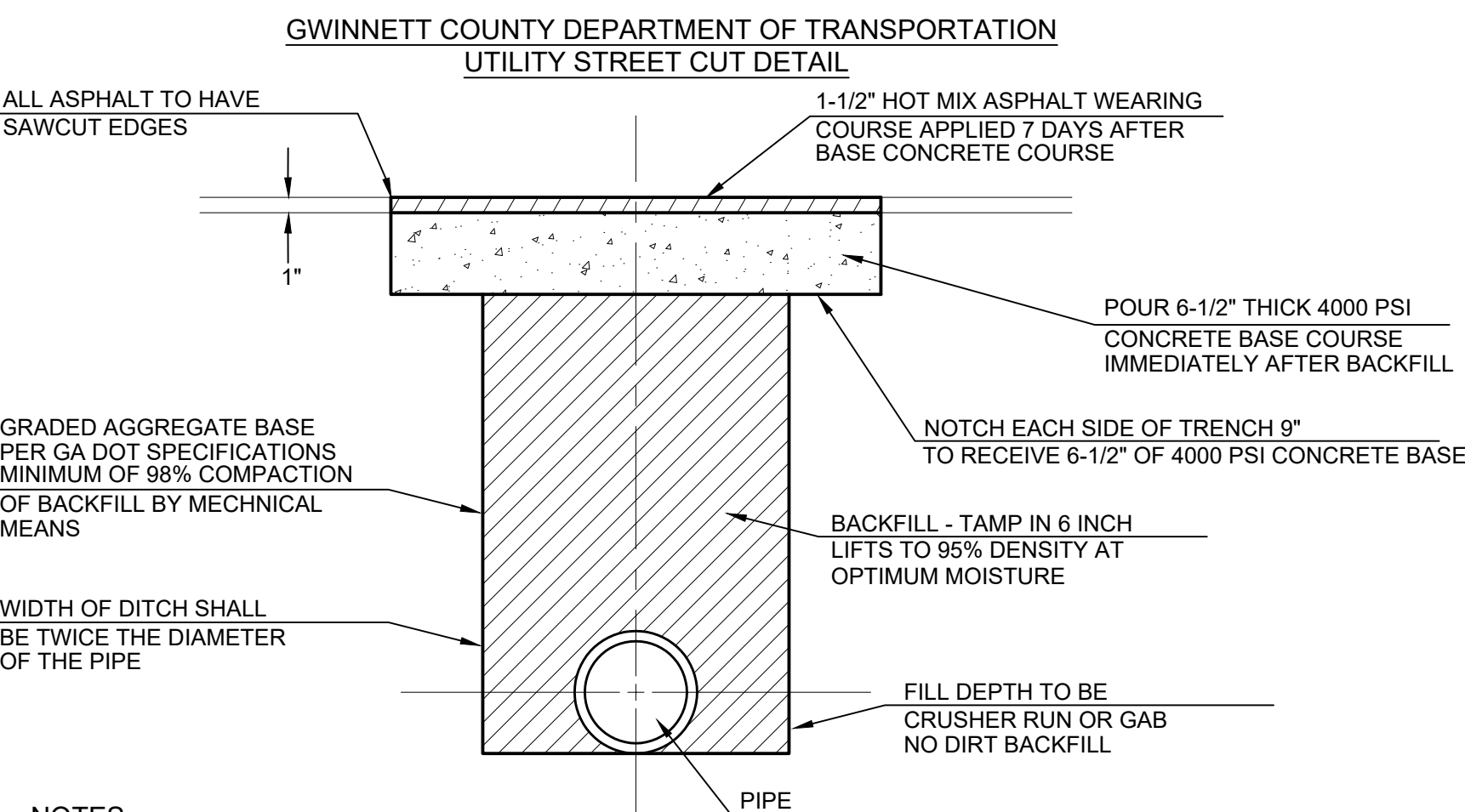
2 WEIR INLET (WI)

C701 N.T.S.



- NOTES:**
1. SUBGRADE TO BE COMPACTED TO 95% MAX. DRY DENSITY PER STANDARD PROCTOR.
 2. REINFORCEMENT STEEL SHALL BE PLACED TO ALLOW A MIN. OF 1 1/2" COVER, EXCEPT WHERE NOTED.
 3. REINFORCEMENT STEEL SHALL BE OF INTERMEDIATE GRADE AND SHALL CONSIST OF NO. 4 @ 8" O.C. E-W.
 4. ALL CONCRETE SHALL BE CLASS AA 1 4500 PSI.
 5. WHEN 60" & 72" BASE SECTIONS ARE REQUIRED, AN ADAPTER SECTION SHALL BE USED IN CONJUNCTION WITH THE STANDARD CONE.

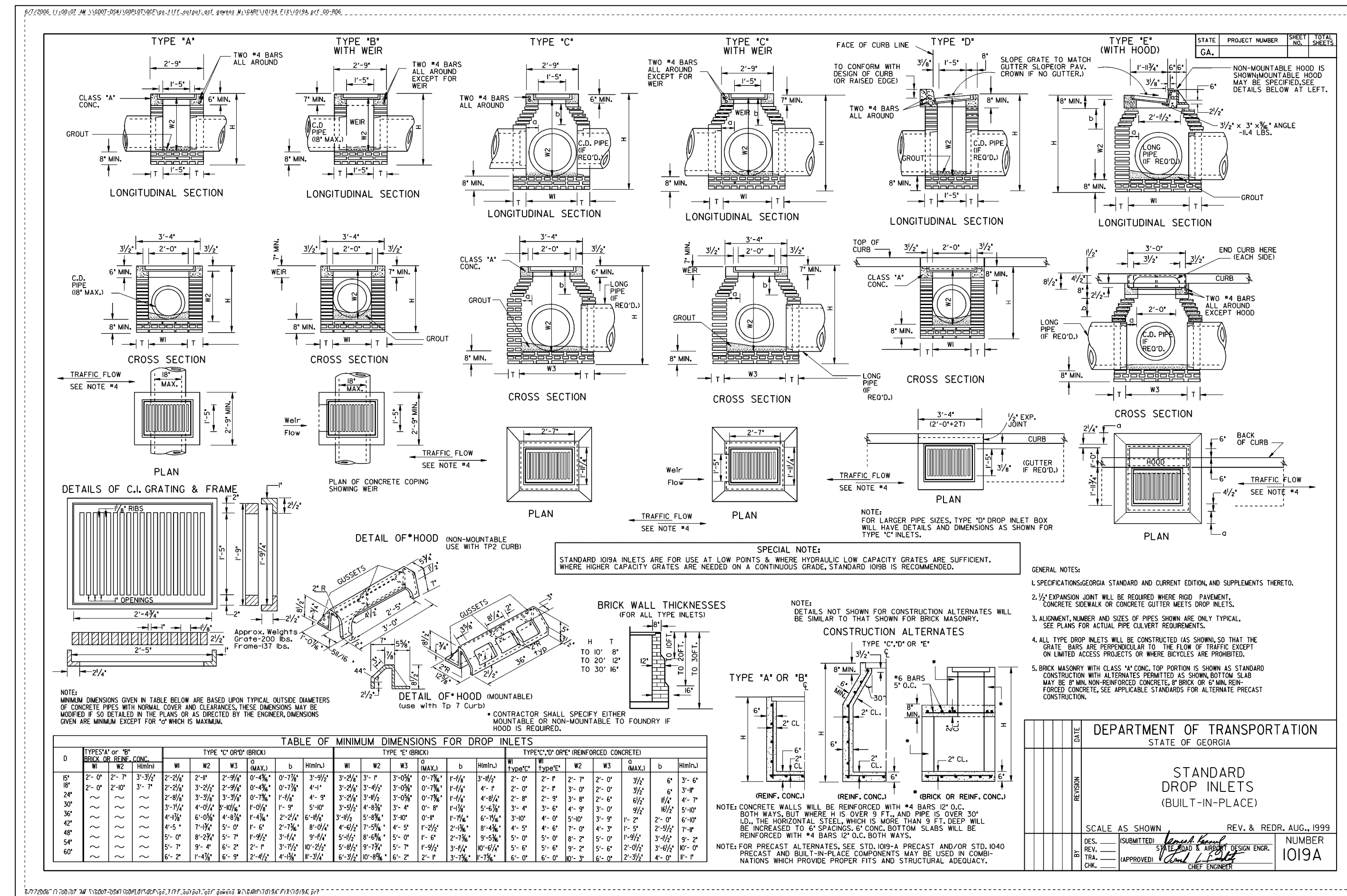
- FINISH NOTES:**
1. ALL EXPOSED CONCRETE FOR WEIRS EXTENDED ABOVE SURROUNDING GRADE IN LANDSCAPE AREAS TO BE PRIMED AND STAINED TO 12" BELOW FINISHED GRADE.
 2. PRIMER TO BE BENJAMIN MOORE SUPER SPEC MASONRY SEALER (N066).
 3. STAIN TO BE BENJAMIN MOORE SUPER SPEC EXTERIOR FINISH (179).
 4. COLOR TO BE "APPALACHIAN BROWN" (2115-10).



- NOTES:**
1. BEFORE ANY CONTRACTOR OR AGENCY CAN CUT A ROAD FOR ANY PURPOSE, AN ESCROW AGREEMENT BETWEEN THE COUNTY AND THAT CONTRACTOR OR AGENCY MUST BE SIGNED.
 2. AN OPEN CUT PERMIT MUST BE OBTAINED BY THE CONTRACTOR OR AGENCY PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
 3. STREET CUTS MUST BE REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS ABOVE. THE BOND WILL BE RELEASED 30 DAYS AFTER COMPLETION AND INSPECTION OF THE CONSTRUCTION. THE CONSTRUCTION MUST OCCUR UNDER THE PROTECTION OF TRAFFIC CONTROL SIGNING REQUIREMENTS OUTLINED IN THE MANUAL ON TRAFFIC CONTROL DEVICES. THE TRANSPORTATION DEPARTMENT WILL BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION. ANY CUT LEFT OVERNIGHT WILL BE COVERED WITH STEEL PLATES SECURED TO THE PAVEMENT.
 4. PERMIT HOLDER MUST CONTACT GWINNETT COUNTY ROAD MAINTENANCE AT 770-822-7414 FOR AN INSPECTION OF THE TRENCH PRIOR TO POURING THE CONCRETE BASE OR WILL FORFEIT YOUR BOND.

3 PAVEMENT PATCH FOR OPEN CUT

C701 N.T.S.



4 DROP INLET (DI) GADOT STD. 1019A

C701 N.T.S.

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CITY OF DACULA

OWNER:
P.O. BOX 400
DACULA, GEORGIA 30019

PROJECT:
MCMILLAN ROAD STORMWATER
IMPROVEMENTS PROJECT

DATE: 06/24/2022
DESCRIPTION: BID

JOB NO.: 22-0310
DRAWN BY: RWH
CHECKED BY: KDW

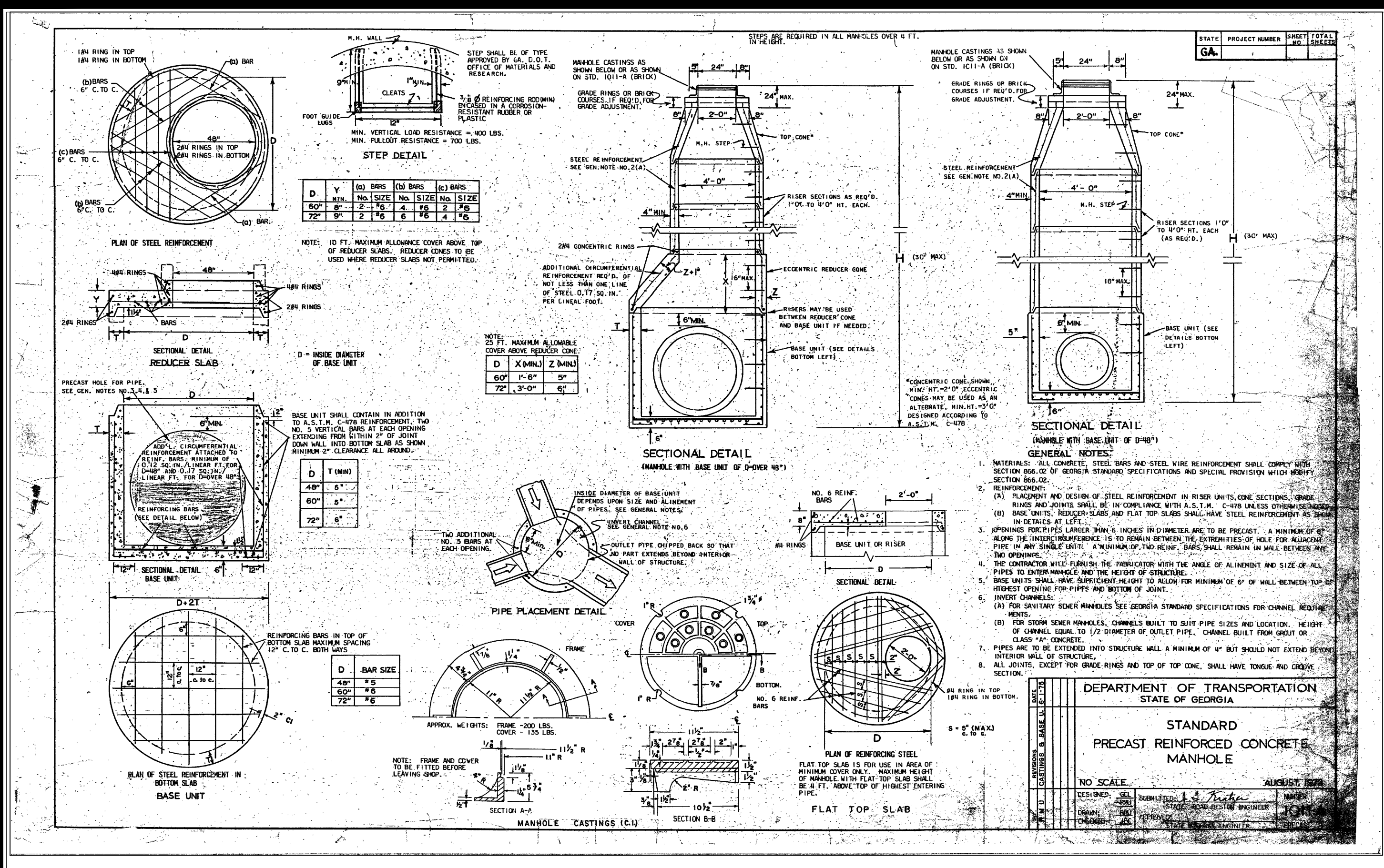
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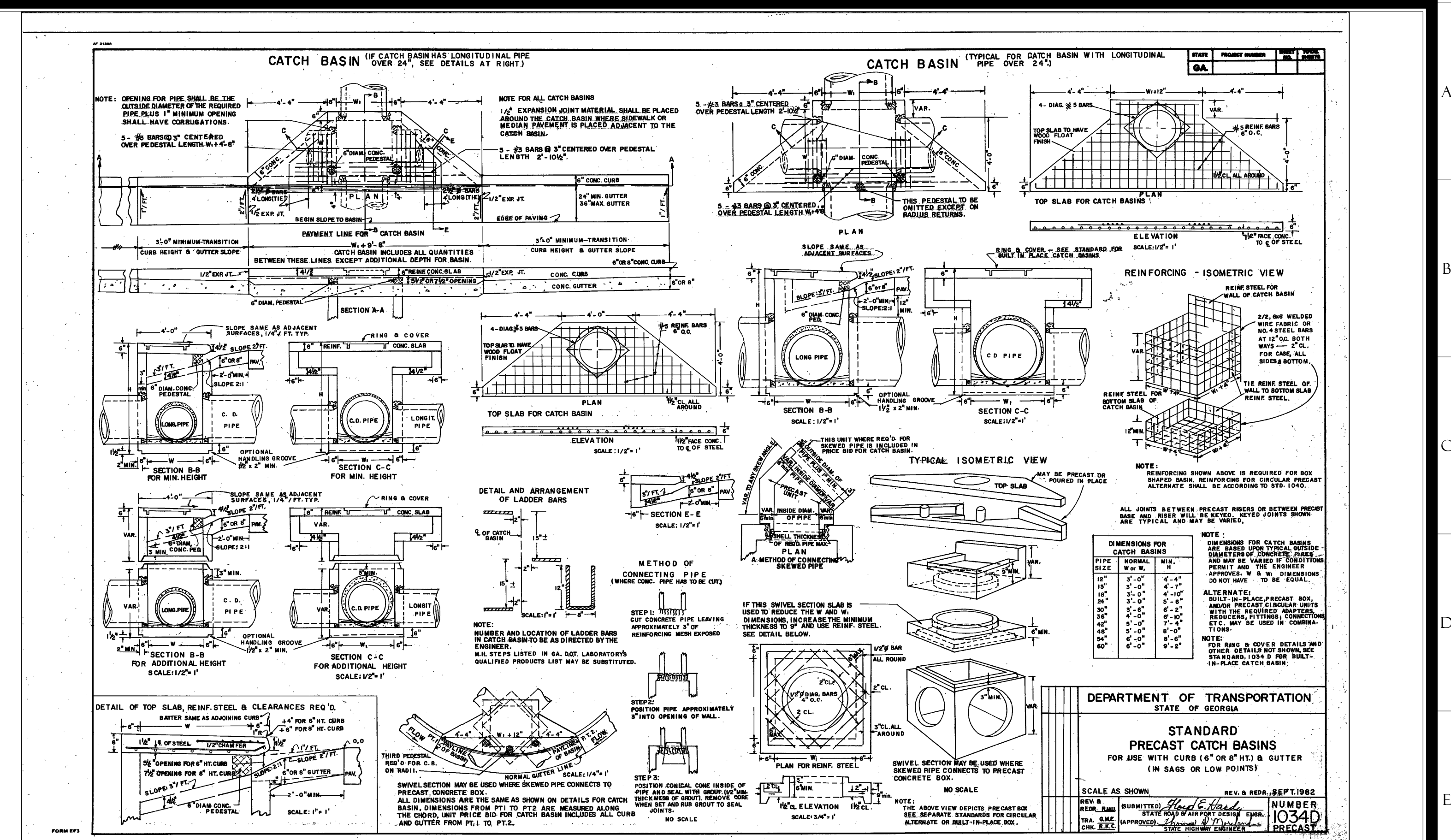
C701

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1 JUNCTION BOX (JB) GADOT STD. 1011A
C702 N.T.S.



2 DOUBLE WING CATCH BASIN DETAIL (GADOT STD. 1034D)
C702 N.T.S.



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CITY OF DACULA
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