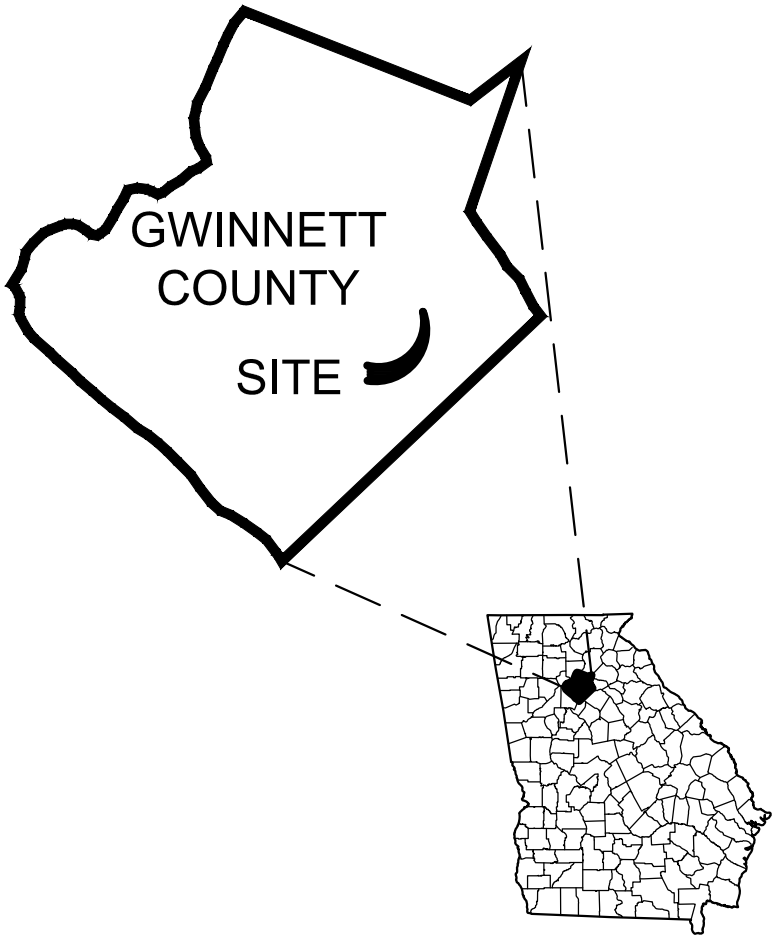
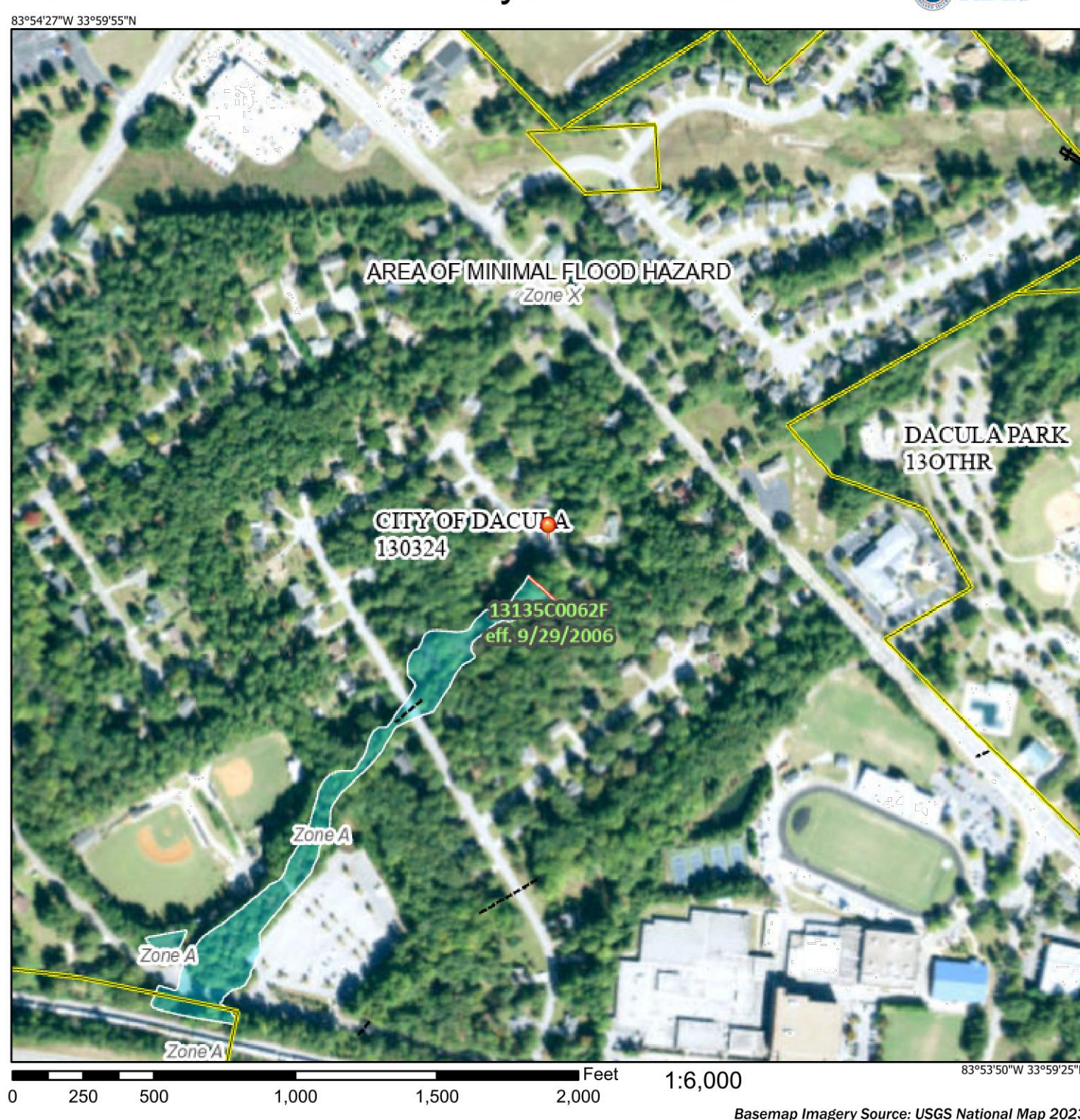


WHISPER WAY STORM IMPROVEMENTS FOR CITY OF DACULA



National Flood Hazard Layer FIRMette



Legend

SEE FIRM REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone A, B, C, D, E, X
- With BFE or Depth Zone AE, AO, AH, VE, VE1, VE2
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levees: See Notes, Zone D
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRNs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

CROSS SECTIONS WITH 1% ANNUAL CHANCE WATER SURFACE ELEVATION

- Coastal Tract
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Tract Baseline
- Profile Baseline

OTHER FEATURES

- Hydrographic Feature
- Digital Data Available
- No Digital Data Available
- Unmapped

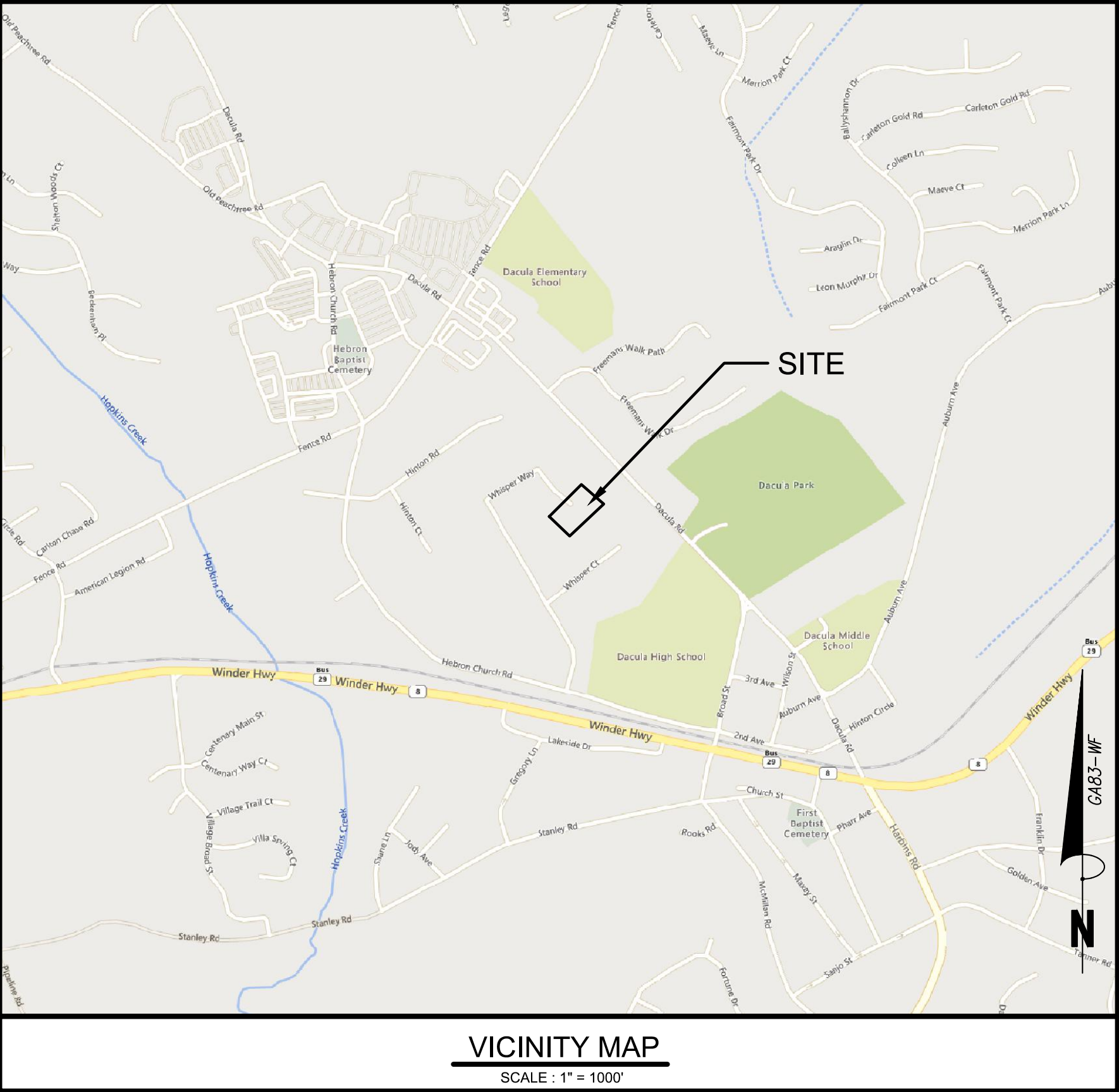
MAP PANELS

- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/17/2023 at 9:00 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmoderated areas cannot be used for regulatory purposes.



NON CITY UTILITY CONTACT INFORMATION:		
UTILITY	PROVIDER	TELEPHONE
ELECTRICITY	GEORGIA POWER JACKSON EMC	1-888-660-5890 770-822-3235
NATURAL GAS	CITY OF BUFORD	770-945-6761
WATER & SEWER	GWINNETT COUNTY PUBLIC UTILITIES	678-376-6800
CABLE TV / INTERNET	CHARTER COMMUNICATIONS DIRECT TV COMCAST AT&T VIASAT SATELLITE INTERNET	1-877-906-9121 1-855-229-4377 1-800-934-6489 1-877-862-7873 1-855-393-3302

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	DEMOLITION PLAN
C2.0	SITE PLAN
C3.0	GRADING & DRAINAGE PLAN
C3.1	STORM PROFILE
C4.0	EROSION CONTROL NOTES
C4.1	EROSION CONTROL PLAN PHASE-I
C4.2	EROSION CONTROL PLAN PHASE-II
C4.3	EROSION CONTROL PLAN PHASE-III
C4.4	EROSION CONTROL DETAILS
C5.0	CONSTRUCTION DETAILS
C5.1	CONSTRUCTION DETAILS

24 HOUR CONTACT
BRITNI NIX
CONTACT NUMBER
(770) 963-7451

FLOOD PLAN NOTE:
THIS PROJECT DOES NOT LAY WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) PER FEMA FIRM PANEL 13135C0062F DATED 9/29/2006.



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Suwanee, GA 30024
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COVER SHEET
WHISPER WAY STORM IMPROVEMENTS
FOR
CITY OF DACULA
CITY OF DACULA, GA
GWINNETT COUNTY

CONSULTANT PROJECT #
200510-01-001



LEVEL II E&S CERT #945
EXP. DATE 08-27-24

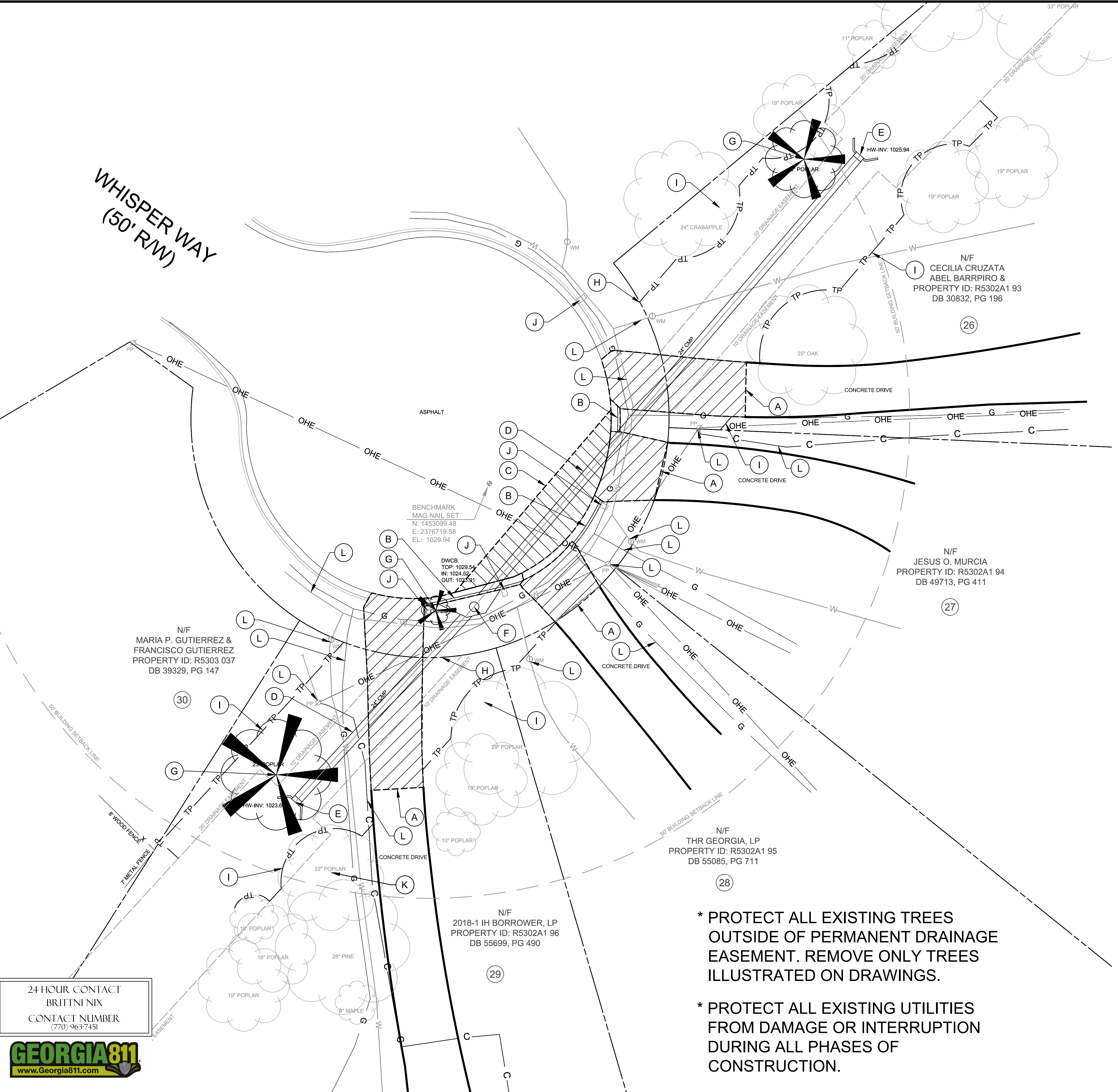
PLAN STATUS
2024/1/22 FOR CONSTRUCTION

DATE	DESCRIPTION
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DESIGN	DRAWN
	CHKD
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C0.0

January 17, 2024
File Path: \\2020510 - City of Dacula\2020510-01-001 (ENG) - 365 Whisper Way\Engineering\2020510-01-001 C0.0 C0.0.dwg
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January 17, 2024
 File Path: \\202510 - City of Dacula\0510-01-001 (ENG) - 365 Whisper Way\Engineering\202510-01-001 C1.0 DEMO.dwg
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WHISPER WAY
(50' RW)



GENERAL NOTES:

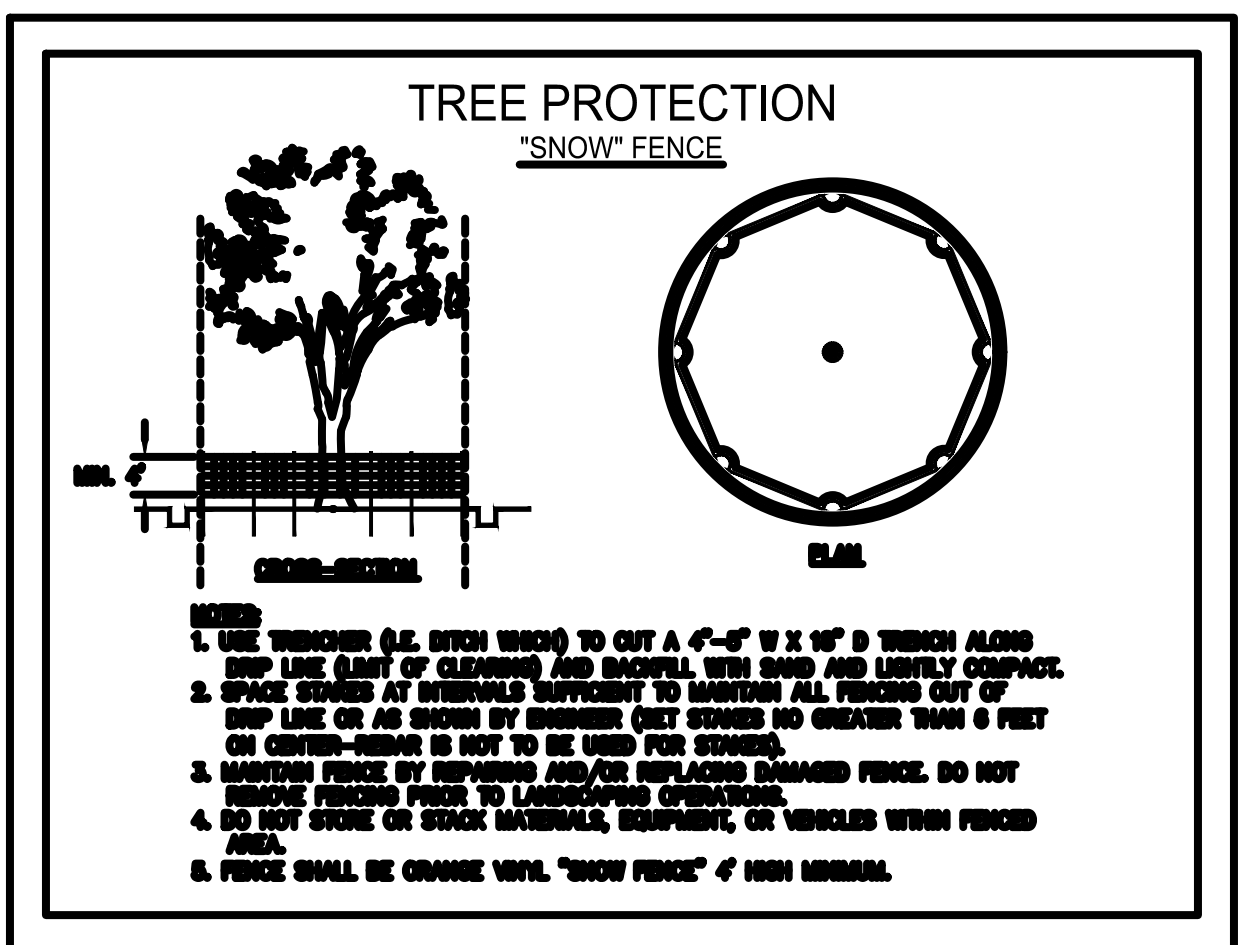
1. MAINTAIN ACCESS TO DRIVEWAYS THROUGH ALL PHASES OF CONSTRUCTION.
2. LOCATE ALL EXISTING UNDERGROUND UTILITIES, PROTECT EXISTING UTILITIES FROM DAMAGE OR INTERRUPTION DURING ALL PHASES OF CONSTRUCTION.
3. CLEAR & GRUB ALL TREES WITHIN THE 20' PERMANENT DRAINAGE EASEMENT WHERE THE STORM PIPE IS TO BE PLACED.

DEMOLITION NOTES:

- A. DEMOLISH & REMOVE TO EARTH SUB-GRADE THE EXISTING CONCRETE DRIVE TO THE LIMITS SHOWN. SAW-CUT AT LIMIT OF DEMOLITION.
- B. DEMOLISH & REMOVE TO EARTH SUB-GRADE THE EXISTING CONCRETE HIGH-BACK CURB & GUTTER TO LIMITS SHOWN. SAW-CUT AT LIMIT OF DEMOLITION.
- C. REMOVE EXISTING ASPHALT PAVEMENT & PATCH AFTER NEW STORM PIPE IS INSTALLED.
- D. DEMOLISH AND REMOVE EXISTING 24" CMP STORM PIPE TO EARTH SUB-GRADE.
- E. DEMOLISH AND REMOVE EXISTING CONCRETE HEADWALL TO EARTH SUB-GRADE.
- F. DEMOLISH AND REMOVE EXISTING DOUBLE WING CATCH BASIN TO EARTH SUB-GRADE.
- G. CLEAR AND GRUB EXISTING TREE.
- H. EXISTING RIGHT OF WAY.
- I. TREE SAVE FENCE AT TCE LIMITS.
- J. EXISTING MAIL BOX TO BE PROTECTED. IF THE MAILBOX NEEDS TO BE REMOVED FOR INSTALLATION OF THE STORM PIPE AND STORM STRUCTURES, THEN THE CONTRACTOR SHALL REMOVE & REPLACE IN-KIND. IF DAMAGED DURING CONSTRUCTION, REPLACE IN-KIND.
- K. PROTECT EXISTING TREE.
- L. PROTECT EXISTING POWER POLE, GUY WIRES & OTHER UTILITIES DURING ALL PHASES OF CONSTRUCTION.

DEMOLITION NOTES:

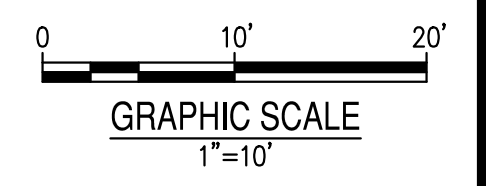
1. BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AT THE PROJECT SITE BY ON-SITE VISITATION AND INSPECTION. REVIEW ALL PLANS, SPECIFICATIONS, FEDERAL, STATE AND COUNTY REGULATIONS AND ORDINANCES TO FULLY ASCERTAIN THE SCOPE OF THE WORK ILLUSTRATED AND/OR IMPLIED WITHIN THESE PLANS.
2. COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS. (SEE #4 BELOW)
3. SURVEY AND ESTABLISH ALL TOPOGRAPHIC BENCHMARKS, BOUNDARY MONUMENTATION, BUILT ITEMS AND EXISTING UTILITIES PERTAINING TO THE WORK SHOWN OR IMPLIED WITHIN THESE PLANS AND MAINTAIN SAID LOCATIONS THROUGHOUT THE DURATION OF THE PROJECT.
 - MARK ALL UTILITIES SHALL CONTACT THE UTILITY PROTECTION CENTER AT (1-800-282-7411);
 - VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES;
 - PROTECT ALL UTILITIES FROM DAMAGE OR INTERRUPTION;
 - REPAIR ANY AND ALL DAMAGES THAT OCCUR DUE TO FAILURE TO VERIFY THE LOCATION OR PROTECT UTILITIES.
4. THE PROJECT EXISTING UTILITIES SHOWN HERE HAVE BEEN LOCATED IN AN APPROXIMATE WAY.
5. THE OWNER & DESIGN PROFESSIONAL / LAND SURVEYOR DO NOT GUARANTEE THAT ALL EXISTING UTILITIES ARE ILLUSTRATED ON THESE PLANS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES.
6. PROTECT ALL UTILITIES FROM DAMAGE THROUGHOUT THE DURATION OF THE PROJECT AND REPAIR ANY AND ALL DAMAGE TO EXISTING UTILITIES CAUSED BY CONSTRUCTION OPERATIONS. REROUTE, RELOCATE AND/OR MODIFY ANY EXISTING UTILITIES THAT APPEAR ON THE REFERENCE SURVEY (ROADS, ACCESSWAYS, DRAINAGE WAYS, ETC.) IN ORDER TO MAINTAIN THE FUNCTION OF SAID FACILITIES.
7. DEMOLISH, REMOVE, RELOCATE, STORE, STOCKPILE THE EXISTING BUILT ITEMS AS ILLUSTRATED ON THE PLANS AND PERFORM ANY INCIDENTAL DEMOLITION WHICH MAY BE REQUIRED TO ACCOMPLISH THE IMPROVEMENTS SHOWN OR IMPLIED WITHIN THE PLANS.
8. MATERIAL, EQUIPMENT AND FIXTURES TO BE REMOVED, WHICH ARE NOT NOTED FOR REUSE OR WHICH HAVE NOT BEEN DESIGNATED BY THE OWNER FOR RETAINAGE OR DELIVERY TO HIS WAREHOUSE OR HOLDING AREA(S), BECOME THE PROPERTY OF THE CONTRACTOR, PROMPTLY REMOVE FROM THE SITE. ANY DISPOSAL OF SAID MATERIALS SHALL BE DONE SO LEGALLY.
9. RENDER THE ENTIRE CLEARED SITE FREE OF DEMOLISHED REMNANTS, DEBRIS AND OTHER ITEMS OR CONDITIONS WHICH MIGHT HAVE A DELETERIOUS EFFECT ON THE CONTINUED CONSTRUCTION OF THE PROJECT.
10. PROVIDE ALL TEMPORARY TRAFFIC SAFETY DEVICES INCLUDING BUT NOT LIMITED TO BARRICADES, SIGNAGE, SIGNAL LIGHTS OR FLAGMEN TO PROTECT THE PUBLIC AT LARGE, AND CONSTRUCTION PERSONNEL WHILE OPERATING WITHIN PUBLIC STREETS AND / OR RIGHTS-OF-WAY.
11. ERECT AND MAINTAIN ALL SOIL EROSION CONTROL MEASURES PRIOR TO DEMOLITION OPERATIONS AND PROTECT ALL ADJACENT PROPERTIES REGARDLESS OF OWNERSHIP.
12. ALL EXISTING ASPHALT PAVEMENT THAT IS TO BE DEMOLISHED WILL BE DEMOLISHED AND REMOVED TO EARTH SUB-GRADE. MATERIAL IS TO BE DISPOSED OF LEGALLY OFF-SITE.
13. ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND / OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
14. FIRE HYDRANTS AND WATER MAINS ARE TO BE INSTALLED, FLUSHED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
15. DURING CONSTRUCTION ACCESS ROADWAYS CONSTRUCTED OF AN ALL WEATHER SURFACE CAPABLE OF SUPPORTING 75,000 POUNDS GROSS WEIGHT SHALL BE PROVIDED PER INTERNATIONAL FIRE PREVENTION CODE 2003 EDITION, CH. 5, SECTION 503.2.3 AS REQUIRED.
16. REMOVE ALL MISCELLANEOUS DEBRIS FROM WITHIN THE PROJECT LIMITS OF DISTURBANCE.
17. SAW-CUT SMOOTH LINE BETWEEN PORTIONS OF CURB AND GUTTER TO BE DEMOLISHED AND REMOVED AND REMAINING PORTIONS.
18. DO NOT PUT ANY EQUIPMENT, MATERIALS, OR DEBRIS ON ANY ADJACENT PROPERTY.
19. CLEAR AND GRUB EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE EXCEPT THE AREAS WITHIN A DESIGNATED TREE SAVE AREA. DO NOT BURY ANY CLEARING AND GRUBBING DEBRIS AND / OR DEMOLITION DEBRIS ON-SITE.
20. BURNING ON-SITE IS NOT PERMITTED.



TP TREE PROTECTION FENCE
NTS

*** PROTECT ALL EXISTING TREES OUTSIDE OF PERMANENT DRAINAGE EASEMENT. REMOVE ONLY TREES ILLUSTRATED ON DRAWINGS.**

*** PROTECT ALL EXISTING UTILITIES FROM DAMAGE OR INTERRUPTION DURING ALL PHASES OF CONSTRUCTION.**



24 HOUR CONTACT
BRITNI NIX
CONTACT NUMBER
(770) 963-7451



DEMOLITION PLAN
WHISPER WAY STORM IMPROVEMENTS
FOR
CITY OF DACULA, GA

DEMOLITION PLAN
WHISPER WAY STORM IMPROVEMENTS
FOR
CITY OF DACULA, GA

CONSULTANT PROJECT #
200510-01-001

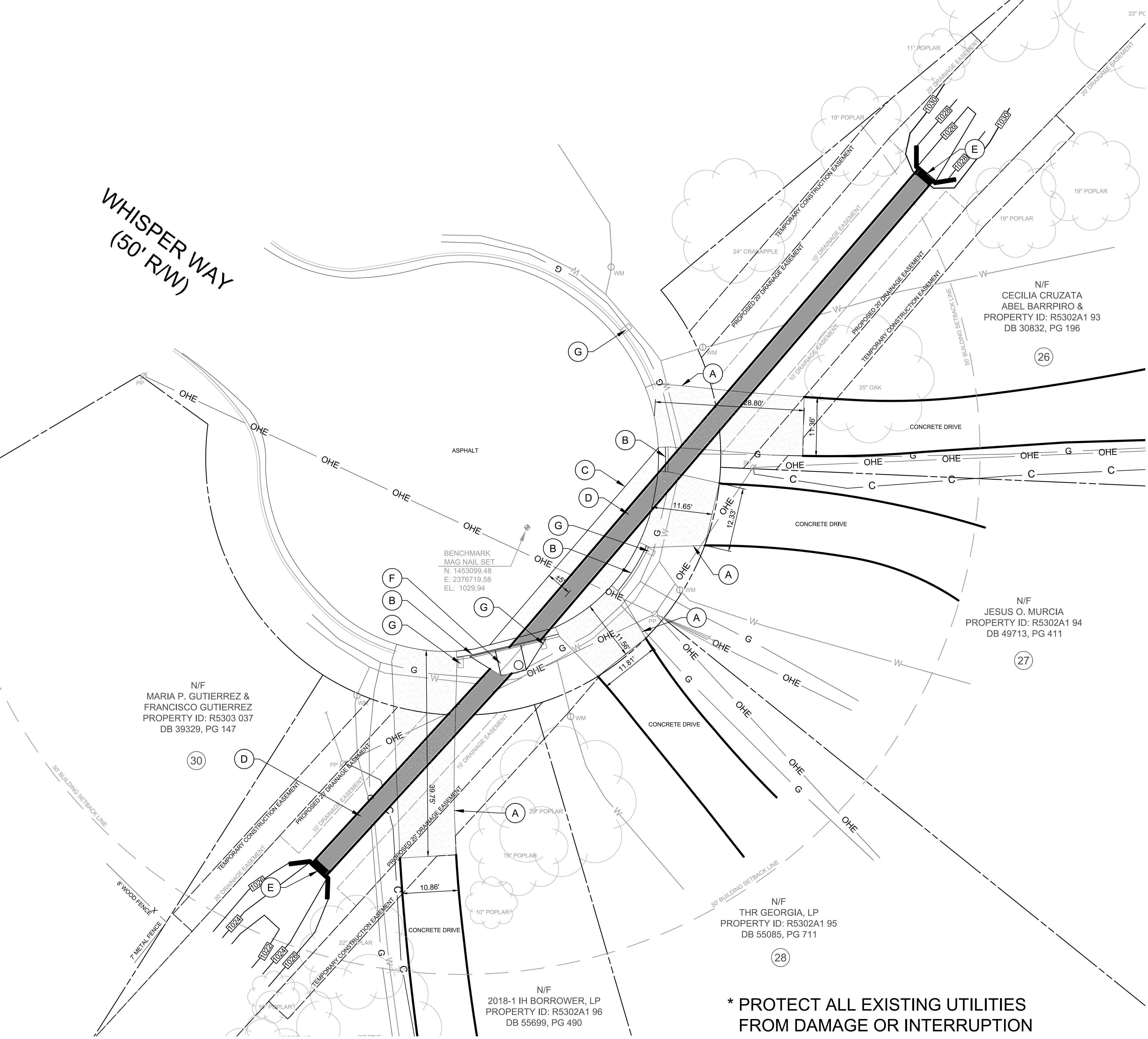


PLAN STATUS
2024/1/22 FOR CONSTRUCTION

DATE	DESCRIPTION
KDW	RWH
DESIGN	DRAWN
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C1.0

January 17, 2024
 File Path: \\202510 - City of Dacula\202510-01-001 (ENG) - 365 Whisper Way\Engineering\202510-01-001 C2.0 317.dwg
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WHISPER WAY (50' R/W)



GENERAL NOTES:

1. MAINTAIN ACCESS TO DRIVEWAYS THROUGH ALL PHASES OF CONSTRUCTION.
2. LOCATE ALL EXISTING UNDERGROUND UTILITIES. PROTECT EXISTING UTILITIES FROM DAMAGE OR INTERRUPTION DURING ALL PHASES OF CONSTRUCTION.

CONSTRUCTION NOTES:

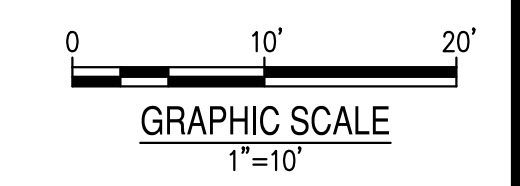
- A. PROPOSED CONCRETE DRIVE TO THE LIMITS SHOWN. SEE DETAIL 1 / C5.0, 1 / C5.1.
- B. PROPOSED CONCRETE HIGH-BACK CURB & GUTTER TO LIMITS SHOWN. SEE DETAIL 2 / C5.0.
- C. PROPOSED ASPHALT PAVEMENT PATCH AFTER NEW STORM PIPE IS INSTALLED. SEE DETAIL 5 / C5.0.
- D. PROPOSED 36" RCP STORM PIPE. SEE DETAIL 6 / C5.0.
- E. PROPOSED PRECAST CONCRETE HEADWALL. SEE DETAIL 3 / C5.0.
- F. PROPOSED PRECAST DOUBLE WING CATCH BASIN. SEE DETAIL 4 / C5.0, 7 / C5.0.
- G. MAILBOX - REINSTALL OR REPLACE IF DAMAGED DURING CONSTRUCTION IN-KIND.

SITE NOTES:

1. BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AT THE PROJECT SITE BY ON-SITE VISITATION AND INSPECTION, REVIEW ALL PLANS, SPECIFICATIONS, FEDERAL, STATE AND COUNTY REGULATIONS AND ORDINANCES TO FULLY ASCERTAIN THE SCOPE OF THE WORK ILLUSTRATED AND/OR IMPLIED WITHIN THESE PLANS.
2. COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS. (SEE #4 BELOW)
3. SURVEY AND ESTABLISH ALL TOPOGRAPHIC BENCHMARKS, BOUNDARY MONUMENTATION, BUILT ITEMS AND EXISTING UTILITIES PERTAINING TO THE WORK SHOWN OR IMPLIED WITHIN THESE PLANS AND MAINTAIN SAID LOCATIONS THROUGHOUT THE DURATION OF THE PROJECT.
4. THE PROJECT EXISTING UTILITIES SHOWN HERE HAVE BEEN LOCATED IN AN APPROXIMATE WAY.
 - MARK ALL UTILITIES SHALL CONTACT THE UTILITY PROTECTION CENTER AT (1-800-282-7411);
 - VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES;
 - PROTECT ALL UTILITIES FROM DAMAGE OR INTERRUPTION;
 - REPAIR ANY AND ALL DAMAGES THAT OCCUR DUE TO FAILURE TO VERIFY THE LOCATION OR PROTECT UTILITIES.
5. THE OWNER & DESIGN PROFESSIONAL / LAND SURVEYOR DO NOT GUARANTEE THAT ALL EXISTING UTILITIES ARE ILLUSTRATED ON THESE PLANS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES.
6. PROTECT ALL UTILITIES FROM DAMAGE THROUGHOUT THE DURATION OF THE PROJECT AND REPAIR ANY AND ALL DAMAGE TO EXISTING UTILITIES CAUSED BY CONSTRUCTION OPERATIONS. REROUTE, RELOCATE AND/OR MODIFY ANY EXISTING UTILITIES THAT APPEAR ON THE REFERENCE SURVEY (ROADS, ACCESSWAYS, DRAINAGE WAYS, ETC.) IN ORDER TO MAINTAIN THE FUNCTION OF SAID FACILITIES.
7. PROVIDE ALL TEMPORARY TRAFFIC SAFETY DEVICES INCLUDING BUT NOT LIMITED TO BARRICADES, SIGNAGE, SIGNAL LIGHTS OR FLAGMEN TO PROTECT THE PUBLIC AT LARGE, AND CONSTRUCTION PERSONNEL WHILE OPERATING WITHIN PUBLIC STREETS AND / OR RIGHTS-OF-WAY.
8. ERECT AND MAINTAIN ALL SOIL EROSION CONTROL MEASURES PRIOR TO DEMOLITION OPERATIONS AND PROTECT ALL ADJACENT PROPERTIES REGARDLESS OF OWNERSHIP.
9. ALL EXISTING ASPHALT PAVEMENT THAT IS TO BE DEMOLISHED WILL BE DEMOLISHED AND REMOVED TO EARTH SUB-GRADE. MATERIAL IS TO BE DISPOSED OF LEGALLY OFF-SITE.
10. ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND / OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
11. REMOVE ALL MISCELLANEOUS DEBRIS FROM THE SITE, THAT ARE DESIGNATED TO BE REMOVED BY THE CITY OF DACULA AND THE DESIGN ENGINEER OR AS DIRECTED IN THE CONSTRUCTION DOCUMENTS.
12. SAW-CUT SMOOTH LINE BETWEEN PORTIONS OF CURB AND GUTTER TO BE DEMOLISHED AND REMOVED AND REMAINING PORTIONS.
13. DO NOT PUT ANY EQUIPMENT, MATERIALS, OR DEBRIS ON ANY ADJACENT PROPERTY.
14. CLEAR AND GRUB EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE EXCEPT THE AREAS WITHIN A DESIGNATED TREE SAVE AREA. SEE SHEET C1.0 DEMOLITION PLAN FOR TREE FENCE LOCATION.
15. DO NOT BURY ANY CLEARING AND GRUBBING DEBRIS AND / OR DEMOLITION DEBRIS ON-SITE.
16. BURNING ON-SITE IS NOT PERMITTED.

*** PROTECT ALL EXISTING UTILITIES FROM DAMAGE OR INTERRUPTION DURING ALL PHASES OF CONSTRUCTION.**

DETAIL LEGEND	
ITEM	DETAIL / SHEET
CONCRETE DRIVEWAY PAVEMENT	1 / C5.0
24" CONCRETE CURB AND GUTTER	2 / C5.0
CONCRETE HEADWALL DETAIL (HW)	3 / C5.0
LID AND STORM STRUCTURE DETAIL	4 / C5.0
PAVEMENT PATCH DETAIL	5 / C5.0
STANDARD PIPE BEDDING DETAILS	6 / C5.0
DOUBLE WING CATCH BASIN (DWCB)	7 / C5.0
CONCRETE DRIVEWALK APRON	1 / C5.1



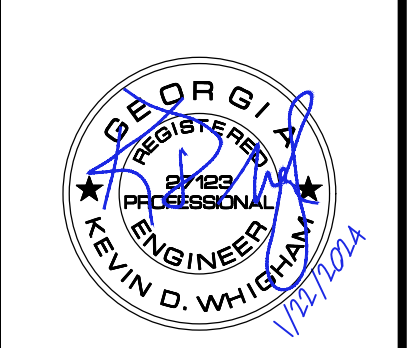
24 HOUR CONTACT
BRITNI NIX
CONTACT NUMBER
(770) 963-7451



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4174 Silver Peak Parkway
Suwanee, GA 30024
Phone: (770) 992-6550
www.bowman.com
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SITE PLAN
WHISPER WAY STORM IMPROVEMENTS
 FOR
 CITY OF DACULA, GA
 GWINNETT COUNTY

CONSULTANT PROJECT #
200510-01-001



LEVEL II E&S CERT #945
EXP. DATE 08-27-24

PLAN STATUS

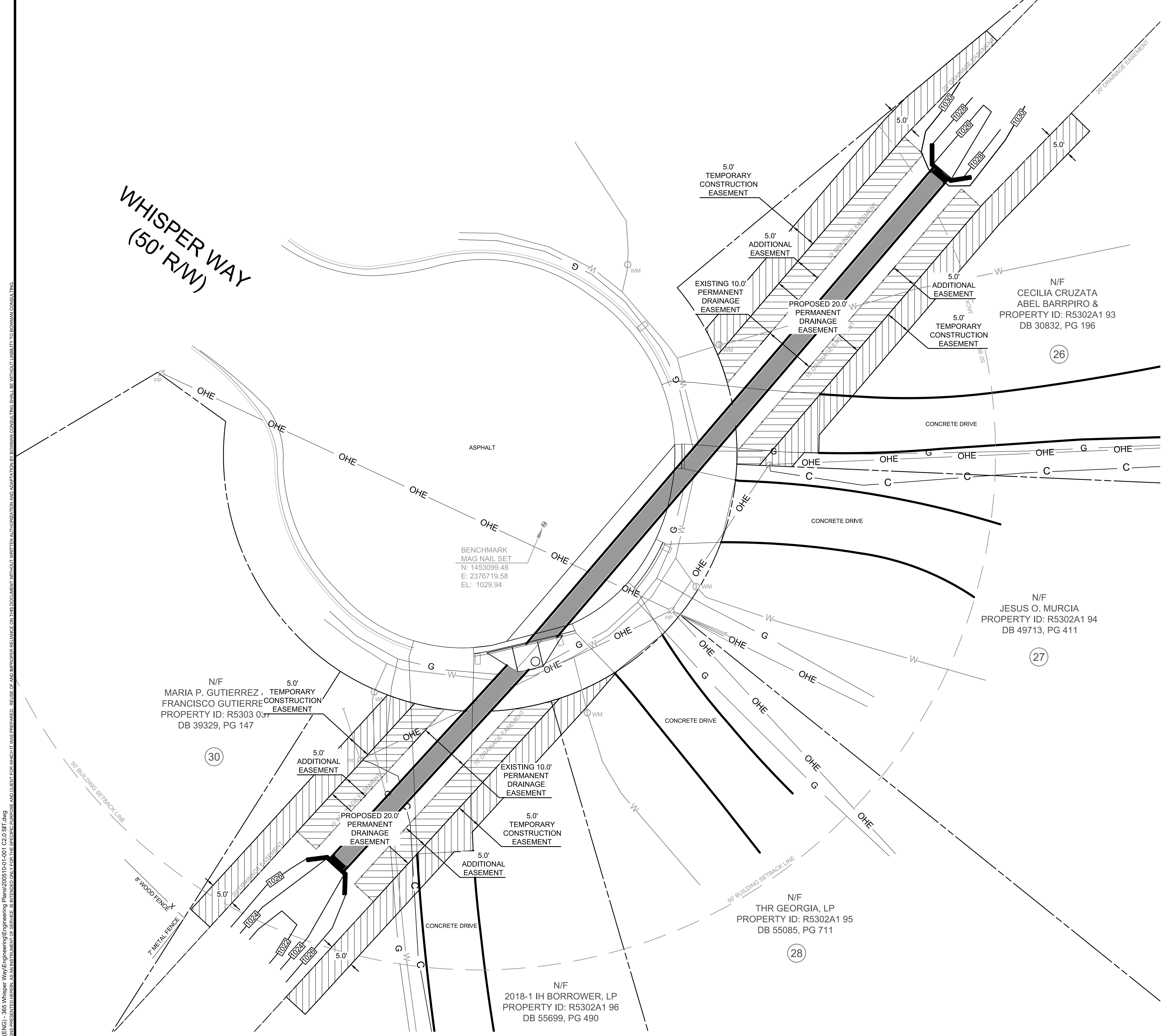
2024/1/22 FOR CONSTRUCTION

DATE	DESCRIPTION
KDW	RWH
DESIGN	DRAWN
	CHKD
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C2.0

WHISPER WAY
(50' R/W)

EASEMENT NOTES:

1. ADDITIONAL 5' PERMANENT STORM DRAINAGE EASEMENT TO EXPAND THE EXISTING 10' PERMANENT DRAINAGE EASEMENT TO 20' PERMANENT DRAINAGE EASEMENT.
2. 30' TEMPORARY CONSTRUCTION EASEMENT, 5' BEYOND 20' PERMANENT DRAINAGE EASEMENT.

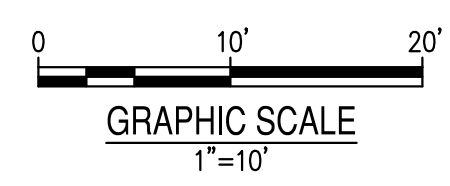


January 17, 2024
 File Path: \\202510 - City of Dacula\202510-01-001 (ENG) - 365 Whisper Way\Engineering\202510-01-001-C2.1-SIT.dwg
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24 HOUR CONTACT
BRITNI NIX
CONTACT NUMBER
(770) 963-7451



DETAIL LEGEND	
ITEM	DETAIL / SHEET
CONCRETE DRIVEWAY PAVEMENT	1 / C5.0
24" CONCRETE CURB AND GUTTER	2 / C5.0
CONCRETE HEADWALL DETAIL (HW)	3 / C5.0
LID AND STORM STRUCTURE DETAIL	4 / C5.0
PAVEMENT PATCH DETAIL	5 / C5.0
STANDARD PIPE BEDDING DETAILS	6 / C5.0
DOUBLE WING CATCH BASIN (DWCB)	7 / C5.0
CONCRETE DRIVEWALK APRON	1 / C5.1



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www.bowman.com
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EASEMENT PLAN
WHISPER WAY STORM IMPROVEMENTS
FOR
CITY OF DACULA, GA
GWINNETT COUNTY

CONSULTANT PROJECT #
200510-01-001



PLAN STATUS
2024/1/22 FOR CONSTRUCTION

DATE	DESCRIPTION
KDW	RWH
DESIGN	DRAWN
	CHKD

SCALE 1" = 20'

JOB No. 200510-01-001

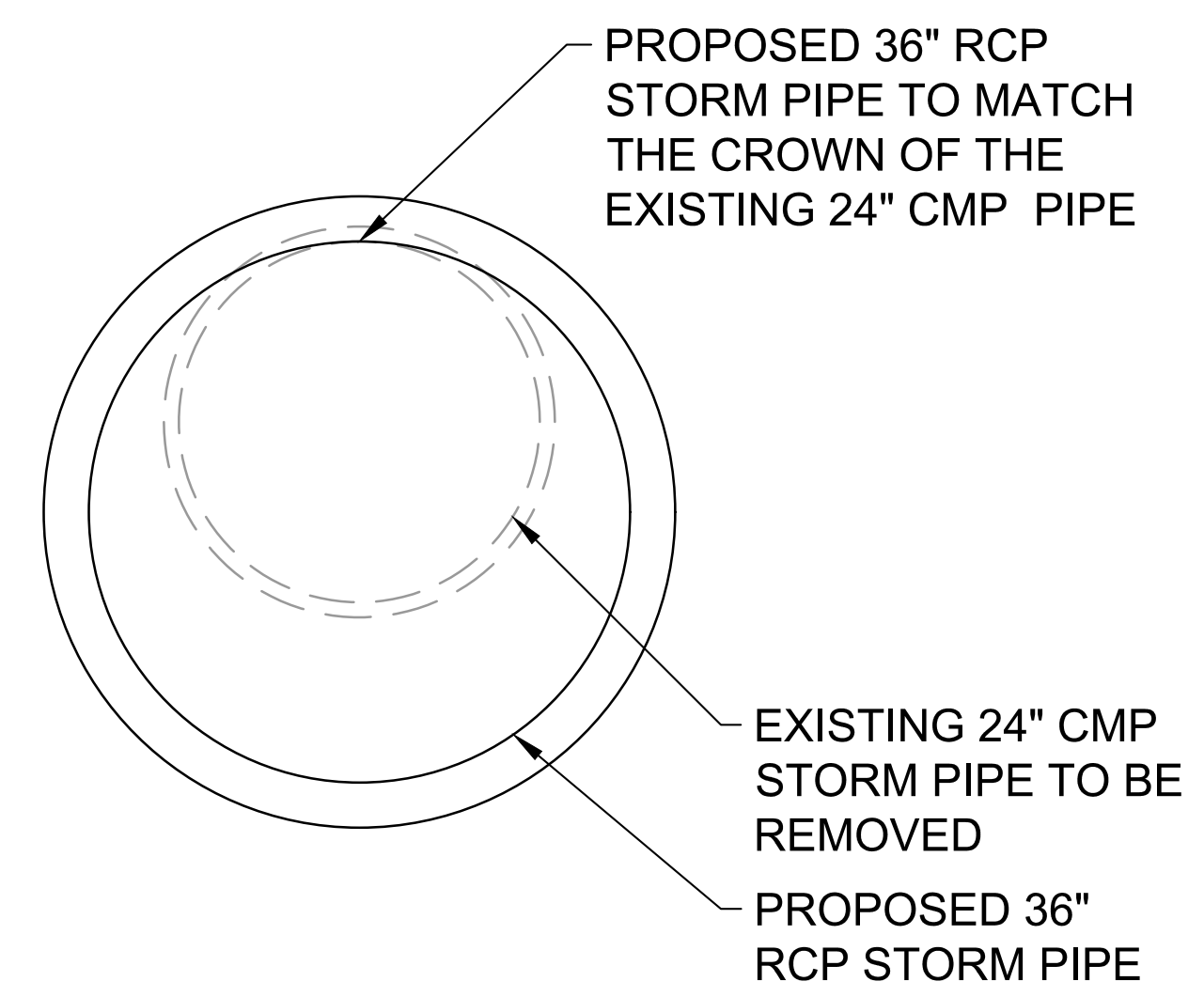
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FILE No.

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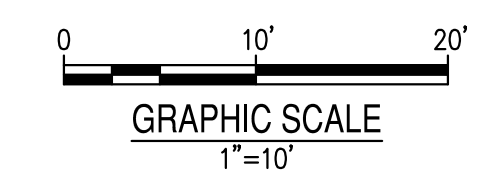
WHISPER WAY
(50' R/W)

- 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.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT AND MAINTENANCE OF HORIZONTAL AND VERTICAL BENCHMARKS THROUGHOUT THE DURATION OF THE PROJECT.
 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 GRADING DESIGN CONCEPTS CONTAINED HEREIN ARE BASED UPON THE FIELD SURVEY PERFORMED BY BOWMAN, DATED 11/21/2023.
 5. MAXIMUM CUT OR FILL SLOPES = 2H: 1V.
 6. 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. IF "EXCESS" CUT IS GENERATED FROM EXCAVATIONS, SAID "EXCESS" SHALL BE DISTRIBUTED AND FINE GRADED AND GRASSED ON DESIGNATED OR APPROVED AREA OF THE OWNER'S PROPERTY AT NO ADDITIONAL COST TO THE OWNER.
 7. EXISTING GRADE IS TO BE MAINTAINED OR RESTORED TO EXISTING GRADE AFTER STORM WATER PIPE & STRUCTURES ARE INSTALLED.
 8. THERE ARE NO EXISTING WETLANDS ON SITE, WITHIN THE ARE OF CONSTRUCTION PER THE NATIONAL WETLANDS INVENTORY AN EXISTING RIVERINE.
 9. THE SITE, AREA OF CONSTRUCTION, LIES WITHIN A ZONE X FLOOD ZONE PER THE FIRM PANEL 13135C0062F EFFECTIVE DATE 9/29/2006.



*** PROTECT ALL EXISTING UTILITIES FROM DAMAGE OR INTERRUPTION DURING ALL PHASES OF CONSTRUCTION.**

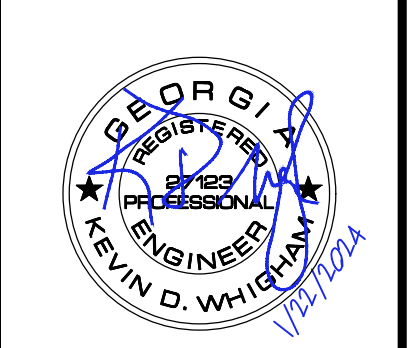
DETAIL LEGEND	
ITEM	DETAIL / SHEET
CONCRETE DRIVEWAY PAVEMENT	1 / C5.0
24" CONCRETE CURB AND GUTTER	2 / C5.0
CONCRETE HEADWALL DETAIL (HW)	3 / C5.0
LID AND STORM STRUCTURE DETAIL	4 / C5.0
PAVEMENT PATCH DETAIL	5 / C5.0
STANDARD PIPE BEDDING DETAILS	6 / C5.0
DOUBLE WING CATCH BASIN (DWCB)	7 / C5.0
CONCRETE DRIVEWALK APRON	1 / C5.1



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GRADING & DRAINAGE PLAN
WHISPER WAY STORM IMPROVEMENTS
FOR
CITY OF DACULA, GA
GWINNETT COUNTY

CONSULTANT PROJECT #
200510-01-001



LEVEL II E&S CERT.#945
EXP. DATE 08-27-24

PLAN STATUS
2024/1/22 FOR CONSTRUCTION

DATE	DESCRIPTION
KDW	RWH
DESIGN	DRAWN
	CHKD
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C3.0

January 17, 2024
 File Path: \\20250510 - City of Dacula\202510-01-001 (ENG) - 365 Whisper Way\Engineering\202510-01-001-C3.0-PCD.dwg
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24 HOUR CONTACT
BRITNI NIX
CONTACT NUMBER
(770) 963-7451



N/F MARIA P. GUTIERREZ & FRANCISCO GUTIERREZ
PROPERTY ID: R5303 037
DB 39329, PG 147

N/F 2018-1 IH BORROWER, LP
PROPERTY ID: R5302A1 96
DB 55699, PG 490

N/F THR GEORGIA, LP
PROPERTY ID: R5302A1 95
DB 55085, PG 711

N/F JESUS O. MURCIA
PROPERTY ID: R5302A1 94
DB 49713, PG 411

N/F CECILIA CRUZATA ABEL BARRPIRO & PROPERTY ID: R5302A1 93
DB 30832, PG 196

BENCHMARK
MAG NAIL SET
N: 1453099.48
E: 2376719.58
EL: 1029.94

100yr PONDING
ELEV: 1029.19
GUTTER: 1029.04
THROAT: 1028.54

TOP: 1029.54

INV: 1022.62

27

28

26

30

18 DWCB

1B DWCB

INV: 1024.24

1C HW

1C HW

1C HW

1C HW

1C HW

1C HW

1C HW

1C HW

1C HW

1C HW

1C HW

1C HW

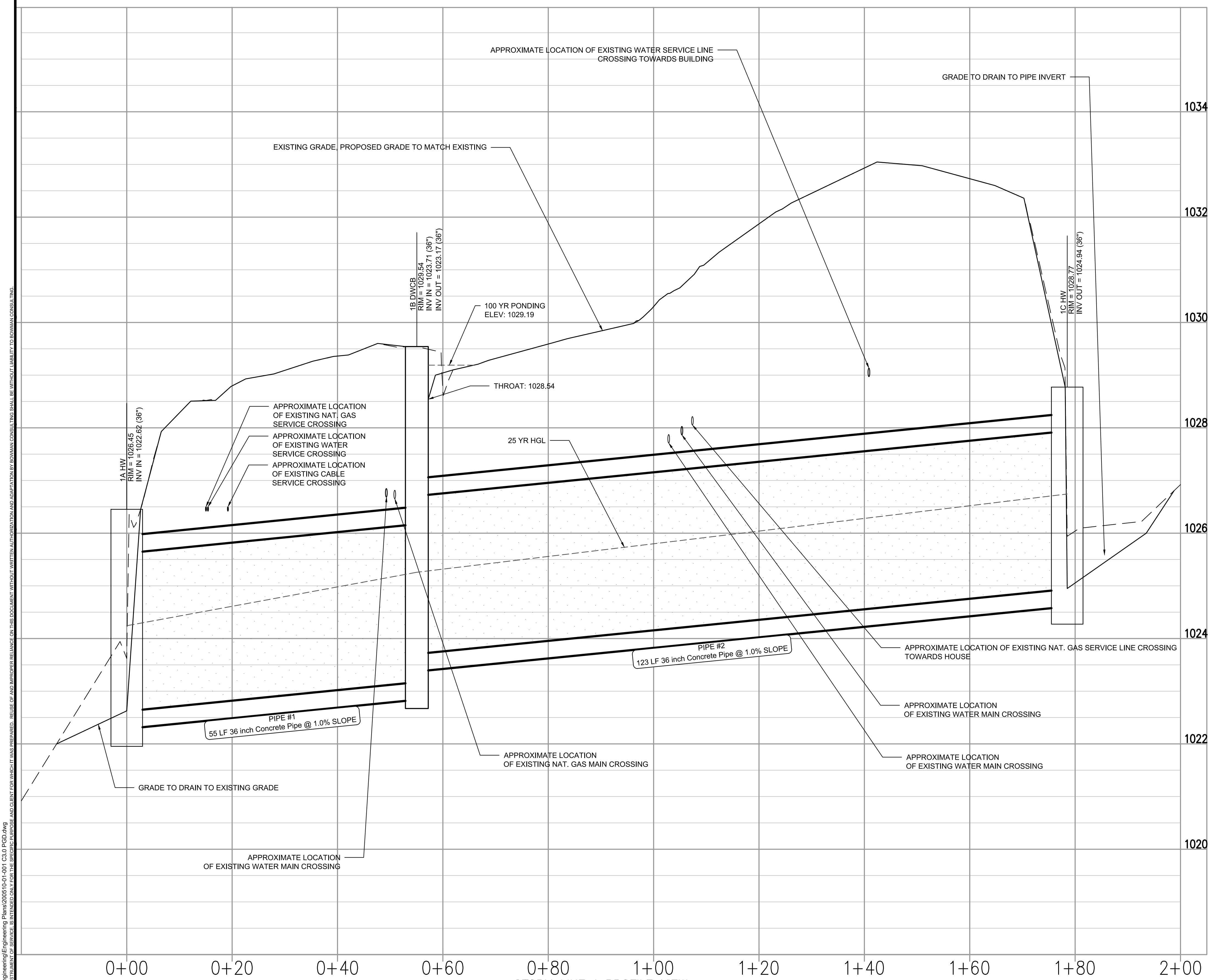
1C HW

1C HW

1C HW

1C HW

1C HW



STORM LINE 1 PROFILE VIEW
 HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=1'

- PIPED SYSTEMS NOTES**
- STORM DRAIN PIPES SHALL BE CONSTRUCTED OF CLASS III REINFORCED CONCRETE (OR GREATER). PIPE MATERIALS, RELATED CONNECTIONS AND FITTING SHALL MEET THE REQUIREMENTS BELOW.
 - REINFORCED CONCRETE - AASHTO M 170 ASTM C 969 MINIMUM EIGHT (8) FOOT JOINT LENGTHS BELL & SPIGOT WITH RUBBER O-RING GASKET CONFORMING TO ASTM C-36 1, CLASS OF PIPE AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH 1030D, GEORGIA DOT SPECIFICATION, TABLE 1, AND SHALL BE APPROVED ON GEORGIA DOT QPL #04
 - FOUNDATION AND BEDDING: UNSUITABLE OR UNSTABLE FOUNDATIONS SHALL BE UNDERCUT AND ~ REPLACED WITH SUIT-ABLE MATERIAL A 4" - 6" BEDDING AND HAUNCHING MATERIALS UP TO THE SPRING-LINE SHALL BE PLACED WITH BACK-FILL WITH LESS THAN 50% PASSING THE #200 SIEVE PLASTICITY INDEX LESS THAN 10 WITH MAXIMUM PARTICLE SIZE OF 1.25 INCHES, COMPACTED TO MINIMUM 90% STANDARD PROCTOR DENSITY AS PER AASHTO T99. ALL BACKFILL TO BE PLACED IN 6" MAX. LIFTS. PIPES SHALL BE INSTALLED IN A DRY TRENCH.
 - BACKFILL ABOVE SPRING-LINE RCP SHALL BE PLACED WITH BACKFILL WITH LESS THAN 50% PASSING THE #200 SIEVE PLASTICITY INDEX LESS THAN 10 WITH MAXIMUM PARTICLE SIZE OF 1.25 INCHES COMPACTED TO MINIMUM 90% STANDARD PROCTOR DENSITY AS PER AASHTO T99 ALL BACKFILL TO BE PLACED IN 8 MAX LIFTS
 - ALL PIPES SHALL BE LAID IN A STRAIGHT LINE BETWEEN STRUCTURES JUNCTION BOXES SHALL BE INSTALLED WHERE THE STORM DRAIN CHANGES DIRECTION AND WHERE ONE PIPE OR MORE INTERSECT
 - REINFORCED CONCRETE PIPE SHALL BE USED IN STREET CROSSINGS.
 - STORM WATER PIPES CARRYING LIVE STREAMS SHALL BE REINFORCED CONCRETE.
 - ALL STORM DRAINAGE PIPES SHALL BE AT LEAST 18 INCHES BELOW THE SURFACE AND SHALL HAVE A SLOPE OF AT LEAST 1 PERCENT.
 - PROPOSED RCP PIPE TO MAINTAIN GRADE OF THE EXISTING 24" CMP TO BE REMOVED TO AVOID CONFLICTS WITH EXISTING UTILITIES.



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STORM PROFILE
WHISPER WAY STORM IMPROVEMENTS
 FOR
 CITY OF DACULA, GA
 GWINNETT COUNTY

CONSULTANT PROJECT #
 200510-01-001



PLAN STATUS
 2024/1/22 FOR CONSTRUCTION

DATE	DESCRIPTION
KDW DESIGN	RWH DRAWN
KDW DESIGN	KDW CHKD
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C3.1

24 HOUR CONTACT
 BRITNI NIX
 CONTACT NUMBER
 (770) 963-7451



Pipe #	Pipe Mat.	Location	Inlet Type	D.A. (Acres)	D.A. (Sum)	IMPERV. AREA (ac)	C	Tc (Min)	I 25 (In/Hr)	Q 25 (cfs)	PIPE CHART			Slope %	Lgth. +/- (ft.)	Size (In)	Vel. (fps)	I 10 (In/Hr)	Q 10 (cfs)	Gutter Slope	Gutter Spread	
											Q25 (Sum) (cfs)	I100 (In/Hr)	Q100 (cfs)									
2	RCP	1C-1B	HW	10.80	10.80	1.81	0.45	12.43	9.25	45.04	45.04	11.41	55.56	55.56	1.00	123	24	7.71				
1	RCP	1B-1A	DWCB	3.25	14.06	0.87	0.51	8.25	9.25	15.34	60.39	11.41	18.93	74.49	1.00	55	24	8.30	7.30	12.11	1.5	7.7

January 17, 2024
 File Path: \\202510-01-City of Dacula\811\Engineering\200510-01-001 (ENG) - 365 Whisper Way\Engineering\200510-01-001 C3.0 PCD.dwg
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EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (ES&PC) NOTES:

- EXISTING LAND USE: STORM DRAINAGE SYSTEM
- SITE LOCATION: WHISPER WAY, DACULA
DACULA, GEORGIA COUNTY
LAND LOTS 302 & 303, 5TH DISTRICT
- PROPOSED USE AND DESCRIPTION OF CONSTRUCTION ACTIVITY: STORM DRAINAGE SYSTEM
- TOTAL SITE AREA: 0.11 ACRES
- TOTAL DISTURBED AREA: 0.11 ACRES
- OWNER/DEVELOPER/PRIMARY PERMITTEE: THE CITY OF DACULA
442 HARBINS ROAD
DACULA, GA 30019
CONTACT
(770) 963-7451
- SECONDARY PERMITTEES:
NAME: _____ COMPANY: _____ ADDRESS: _____ PHONE NO: _____ FAX NO: _____ SIGNATURE: _____
NAME: _____ COMPANY: _____ ADDRESS: _____ PHONE NO: _____ FAX NO: _____ SIGNATURE: _____
- 24 HOUR LOCAL CONTACT FOR EROSION, SEDIMENTATION AND POLLUTION CONTROL: BRITTNI NIX PHONE: 770-963-7451
- THERE ARE NOT STATE WATERS LOCATED ON-SITE, NO CREEK BUFFERS.
- 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.
- RECEIVING WATER(S) IS: OF HOPKINS CREEK
- SOIL SERIES FOR THE PROJECT SITE INCLUDE: AmC2 & WkB.
- DESCRIPTION OF THE MEASURES TO BE INSTALLED DURING CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORMWATER 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.
- INITIAL PERIMETER BEST MANAGEMENT PRACTICES (BMP'S): Co, Sd1, Du, Ds1, Ds2, St, Tr.
- INTERMEDIATE GRADING AND DRAINAGE BMP'S: Sd1, Ds1, Ds2, Du, Co, St, Sd2-F/P, & Tr.
- FINAL BMP'S: Ds3, St, Sd2-P.
- THIS SITE DOES NOT LIE WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP 13135C0062F, DATED 9/29/2006.
- ESTIMATE OF PRE-CONSTRUCTION 25 YEAR PEAK DISCHARGE FLOW AT 1A = 41.17 CFS
- ESTIMATE OF POST-CONSTRUCTION 25 YEAR PEAK DISCHARGE FLOW AT 1A = 41.16 CFS
- 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.
- "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES."
- "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."
- "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."
- "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."
- "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."
- "SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME."
- "CONTRACTOR TO CLEAN OUT ACCUMULATED SILT IN DETENTION POND AT THE END OF CONSTRUCTION ACTIVITIES WHEN THE DISTURBED AREAS HAVE BEEN STABILIZED."
- "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."
- "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."
- "ADDITIONAL SOIL EROSION CONTROL MEASURES WILL BE ADDED IF DETERMINED TO BE NEEDED BY ON-SITE INSPECTIONS."
- "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."
- "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."
- "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."
- "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."
- "ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS."
- "GRADING OPERATIONS SHALL NOT ENDANGER ADJOINING PROPERTIES."

- "STRIPPING OF VEGETATION, REGRADING, AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE EROSION."
- FILLS SHALL NOT ENCROACH UPON NATURAL COURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS."
- "ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE."
- "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 OWNER'S AND CODE SATISFACTION AND BEFORE THE CONTRACTOR LEAVES THE SITE."
- "ALL WASTE DISPOSAL SHALL BE HAULED OFF TO A STATE AUTHORIZED LANDFILL. NO WASTE/DEBRIS MATERIAL WILL BE BURIED ON-SITE WITHOUT COUNTY/STATE PERMIT. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT FROM THE U.S. ARMY CORPS OF ENGINEERS (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) IV.D.2.C.(1))."
- "ALL PERMITTEE'S SHALL ENSURE AND DEMONSTRATE THAT THE SITE IS IN COMPLIANCE WITH THE ES&PC PLAN WITH RESPECT TO ALL APPLICABLE STATE AND LOCAL WASTE WATER DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS. (NPDES IV.D.2.C.(3))."
- "CONTRACTOR SHALL MAINTAIN CONSTRUCTION EXITS TO PREVENT TRACKING OF MUD INTO PUBLIC RIGHT-OF-WAY."
- "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."
- "CONTRACTOR TO FURNISH AND INSTALL APS 600 SERIES 'SILT STOP' AS MANUFACTURED BY APPLIED POLYMER SYSTEMS, NORCROSS GA, 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."
- "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))."
- "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."
- 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.
- "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."
- "CONTRACTOR SHALL MONITOR, REPORT REQUIREMENTS, AND RETAIN RECORDS PER THE GENERAL NPDES PERMIT NO. GAR 100003. "CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AS SET FORTH IN THE GENERAL NPDES PERMIT NO. GAR 100003."
- "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)."
- "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."
- "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))."
- "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.
- "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 EPD TO CHANGE FROM THE DESIGN PROFESSIONAL WHO DEVELOPED THE PLAN AND THE E.P.D. HAS AGREED."
- "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.
- "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."
- 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.
- "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT."
- APPROVED PLANS AND NPDES DAILY LOG MUST BE ON SITE AT ALL TIMES.
- SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.
- 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.

January 17, 2024
 File Path: \20250510 - City of Dacula\050510-01-001 (ENG) - 365 Whisper Way\Engineering\Engineering Plans\20250510-01-001 CAD ERO.Plan
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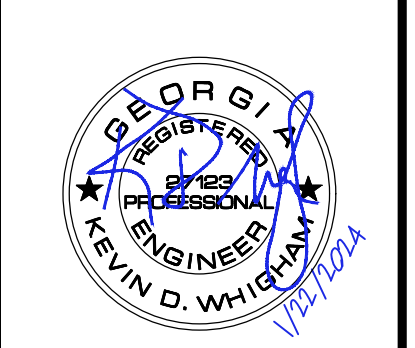
24 HOUR CONTACT
 BRITTNI NIX
 CONTACT NUMBER
 (770) 963-7451



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 4174 Silver Peak Parkway
 Suwanee, GA 30024
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EROSION CONTROL NOTES
WHISPER WAY STORM IMPROVEMENTS
 FOR
 CITY OF DACULA, GA
 GWINNETT COUNTY

CONSULTANT PROJECT #
 200510-01-001



LEVEL II E&S CERT.#945
 EXP. DATE 09-27-24

PLAN STATUS	
2024/1/22	FOR CONSTRUCTION

DATE	DESCRIPTION
KDW	RWH KDW
DESIGN	DRAWN CHKD
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C4.0

January 17, 2024
 File Path: I:\2025\10 - City of Dacula\Engineering\2025\10-01-001 (ENG) - 365 Whisper Way\Engineering\2025\10-01-001 C4.1 ERO.Dwg
 PLOT DATE: 01/22/2024 10:58:54 AM
 PLOT BY: K. WHISPER
 PLOT SCALE: 1"=20'
 PLOT SHEET: 1 OF 1
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**WHISPER WAY
(50' RW)**

SITE LOCATION
 LAT: 33.94344°
 LONG: -83.902304°

N/F
 MARIA P. GUTIERREZ &
 FRANCISCO GUTIERREZ
 PROPERTY ID: R5303 037
 DB 39329, PG 147

N/F
 CECILIA CRUZATA
 ABEL BARRPIRO &
 PROPERTY ID: R5302A1 93
 DB 30832, PG 196

N/F
 JESUS O. MURCIA
 PROPERTY ID: R5302A1 94
 DB 49713, PG 411

N/F
 THR GEORGIA, LP
 PROPERTY ID: R5302A1 95
 DB 55085, PG 711

N/F
 2018-1 IH BORROWER, LP
 PROPERTY ID: R5302A1 96
 DB 55699, PG 490

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

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

SOILS INFO:

AmC2 APPLING SANDY LOAD, 6 TO 10 PERCENT SLOPES, MODERATELY ERODED.

WkB WORSHAM SANDY LOAM, 2 TO 6 PERCENT SLOPES.

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

AREAS:

TOTAL SITE AREA = 0.11 ACRES
 DISTURBED AREA ON-SITE = 0.11 ACRES

24 HOUR CONTACT
 BRITNI NIX
 CONTACT NUMBER
 (770) 963-7451



PHASE I - INITIAL CLEARING PHASE:

- Erosion Control Notes
- 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.
 - THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
 - 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.
 - A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
 - 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.
 - 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.
 - 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.
 - THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
 - 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 OVERLAP ON A GEOTEXTILE UNDERLINE. THE GEOTEXTILE UNDERLINE SHALL MEET THE REQUIREMENTS OF AASHTO M289-96, SECTION 7.3, SEPARATION REQUIREMENTS.
 - 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.
 - TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. 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.
 - 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.
 - STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
 - 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.
 - 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 ANY 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.
 - THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.
 - NO BURN OF BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE.
 - ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
 - ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1985 EDITION.
 - 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 O. T. STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
 - 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 VEGETATION.
 - 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 VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
 - CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
 - 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.
 - 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.
 - ALL AD VALOREM TAXES HAVE BEEN PAID.
 - ALL UNDISTURBED BUFFERS SHALL BE IDENTIFIED WITH ORANGE FOUR-FOOT TREE-SAVE FENCE PRIOR TO ANY LAND DISTURBANCE.



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 Suwanee, GA 30024
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 www.bowman.com
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EROSION CONTROL PLAN PHASE-I
WHISPER WAY STORM IMPROVEMENTS
 FOR
 CITY OF DACULA, GA
 GWINNETT COUNTY

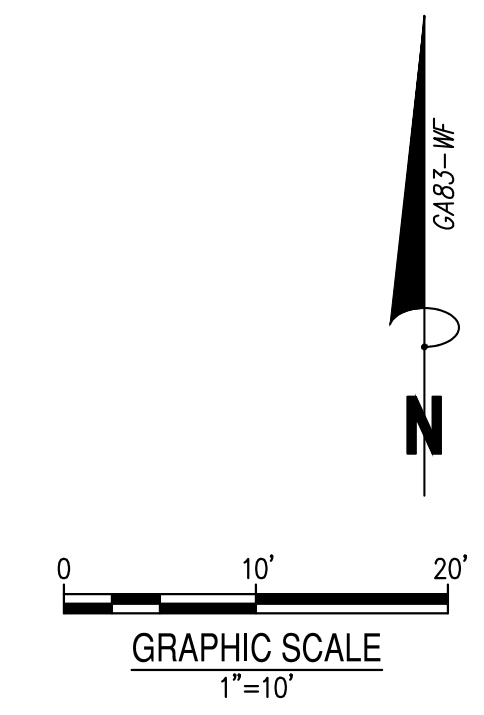
CONSULTANT PROJECT #
 200510-01-001



LEVEL II EAS CERT #945
 EXP. DATE 08-27-24

PLAN STATUS
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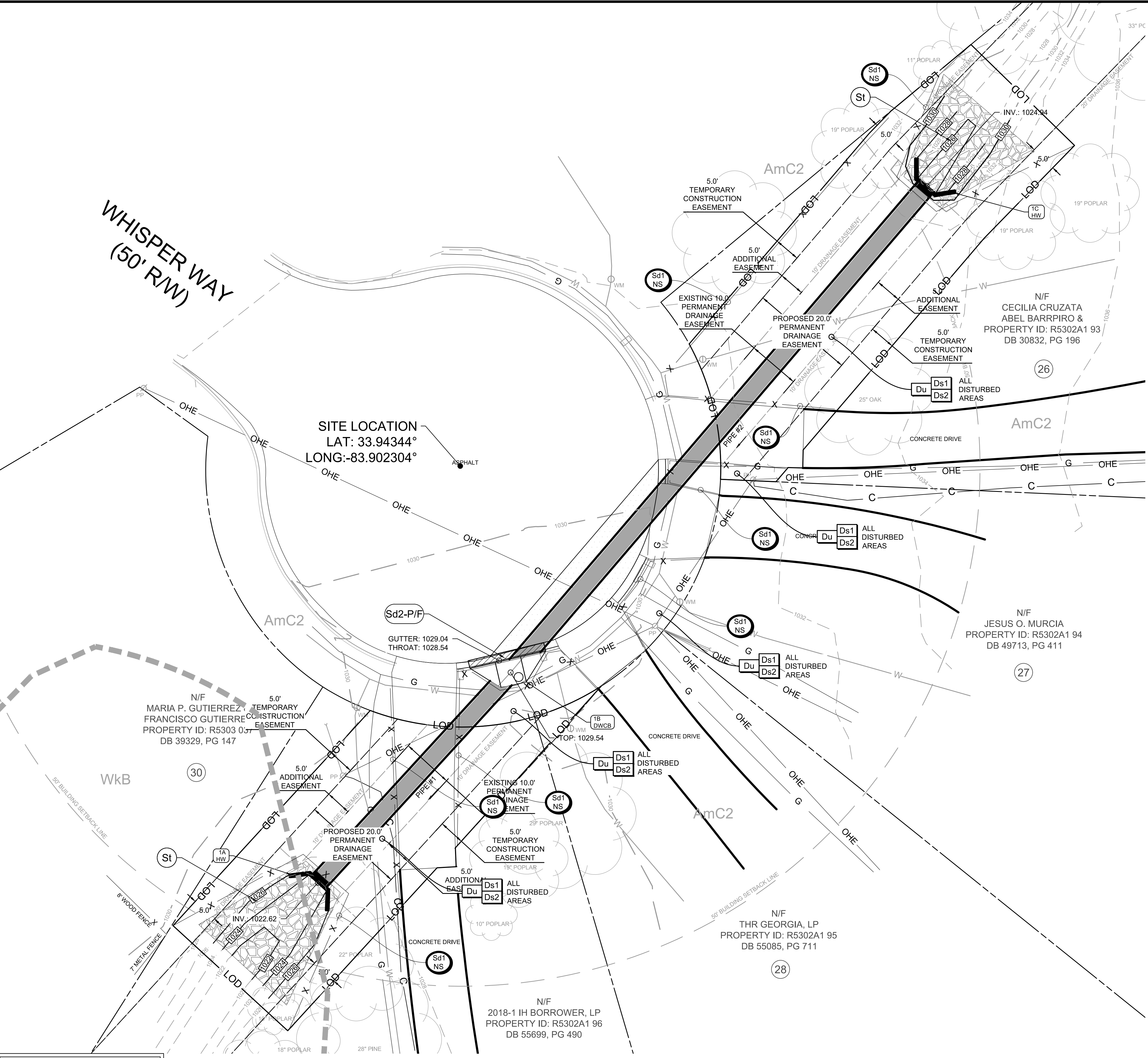
DATE	DESCRIPTION
KDW	RWH
DESIGN	DRAWN
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C4.1



January 17, 2024
 File Path: \\202510 - City of Dacula\202510-01-001 (ENG) - 365 Whisper Way\Engineering\202510-01-001-C4.2 EROD.dwg
 PLOT DATE: 01/22/2024 10:58:54 AM
 PLOT BY: K. WHITMAN
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**WHISPER WAY
(50' RW)**

SITE LOCATION
 LAT: 33.94344°
 LONG: -83.902304°



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 "C" 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 GRADED 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.

INLETS SHOWN ON THE PLAN AS Sd2-F/P SHALL BE CONVERTED FROM AN Sd2-F TO AN Sd2-P AS THE PAVEMENT IS INSTALLED.

24 HOUR CONTACT
 BRITNI NIX
 CONTACT NUMBER
 (770) 963-7451

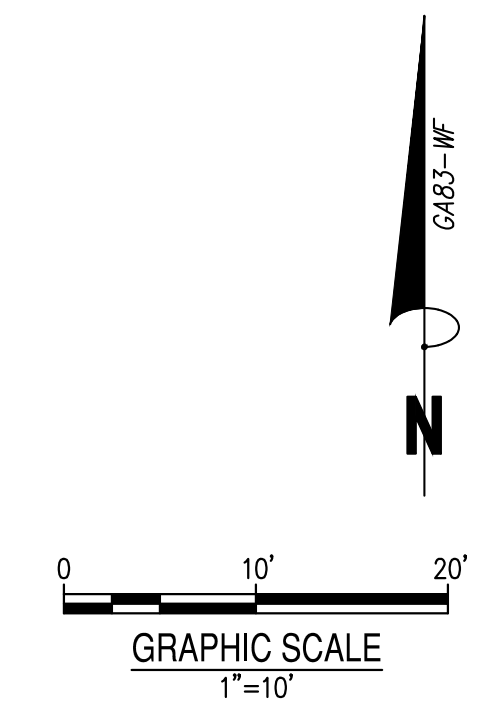


PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORMWATER DISCHARGES ON THE SITE.

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

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

AREAS:
 TOTAL SITE AREA = 0.11 ACRES
 DISTURBED AREA ON-SITE = 0.11 ACRES



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EROSION CONTROL PLAN PHASE-II
WHISPER WAY STORM IMPROVEMENTS
 FOR
 CITY OF DACULA, GA
 GWINNETT COUNTY

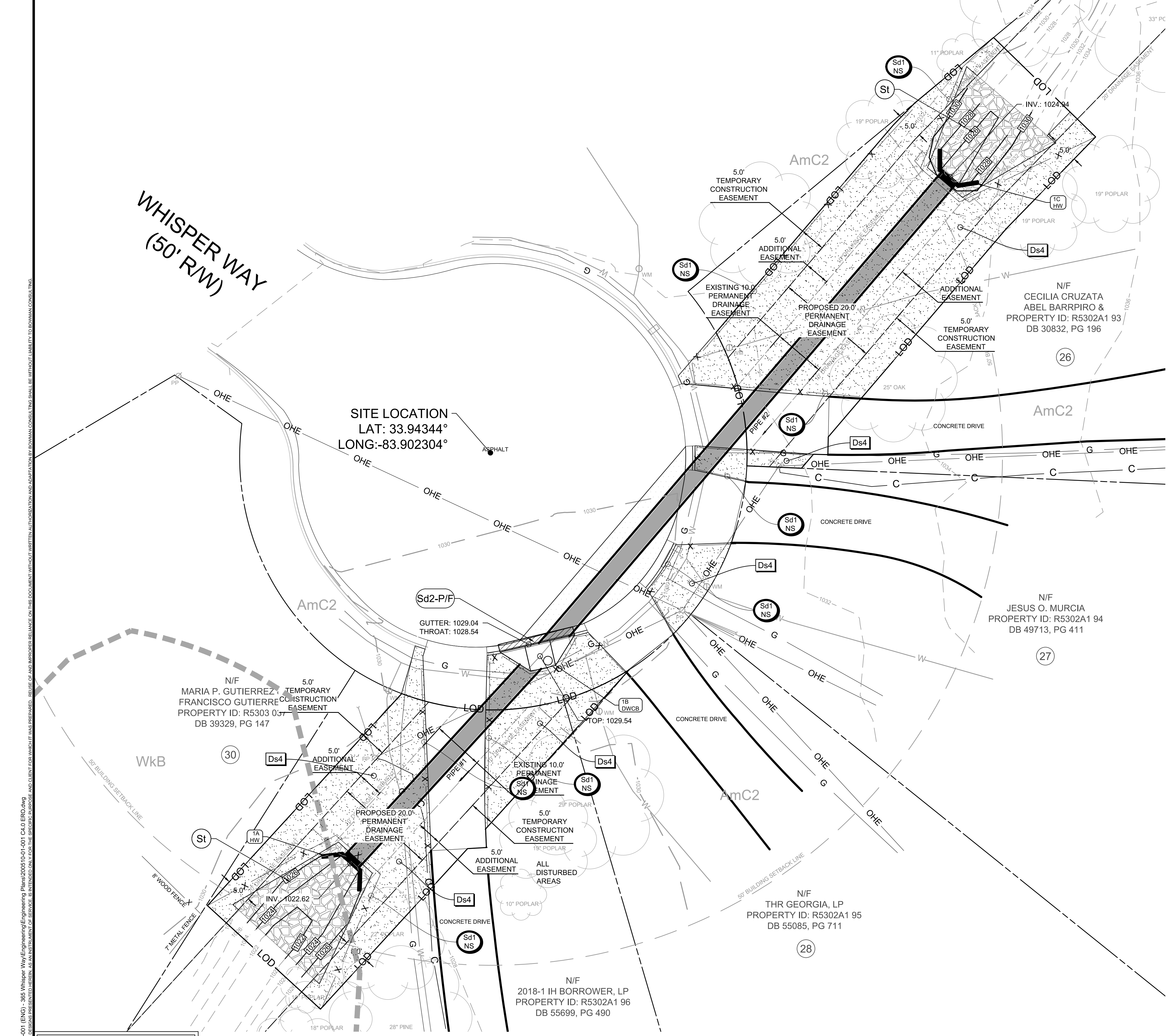
CONSULTANT PROJECT #
 200510-01-001



LEVEL II EAS CERT #945
 EXP. DATE 08-27-24

PLAN STATUS
 2024/1/22 FOR CONSTRUCTION

DATE	DESCRIPTION
KDW	RWH
DESIGN	CHKD
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C4.2



WHISPER WAY
(50' RW)

SITE LOCATION
LAT: 33.94344°
LONG: -83.902304°

24 HOUR CONTACT
BRITNI NIX
CONTACT NUMBER
(770) 963-7451



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

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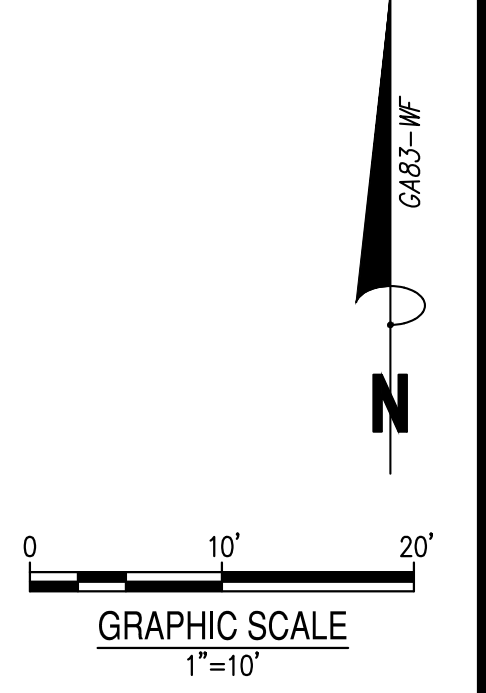
AREAS:
TOTAL SITE AREA = 0.11 ACRES
DISTURBED AREA ON-SITE = 0.11 ACRES

PHASE III - FINAL STABILIZATION PHASE:
Erosion Control Notes

- 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.
- 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.
- 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.
- 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 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.
- 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 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.
- 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.
- 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

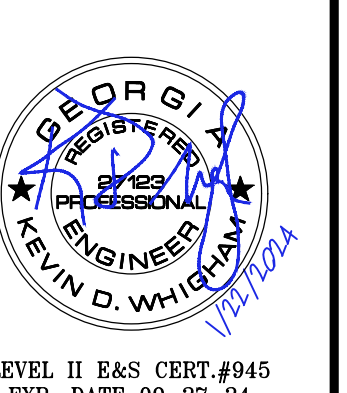
- CRITICAL AREAS SHOWN ON FINAL PHASE EROSION CONTROL PLANS SHALL BE MAINTAINED DAILY. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND 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.
- ALL INLET POINTS MUST RECEIVE INLET PROTECTION ON ALL PHASES, INCLUDING FINAL PHASE, UNTIL FINAL STABILIZATION IS ACHIEVED.



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EROSION CONTROL PLAN PHASE-III
WHISPER WAY STORM IMPROVEMENTS
FOR
CITY OF DACULA, GA
GWINNETT COUNTY

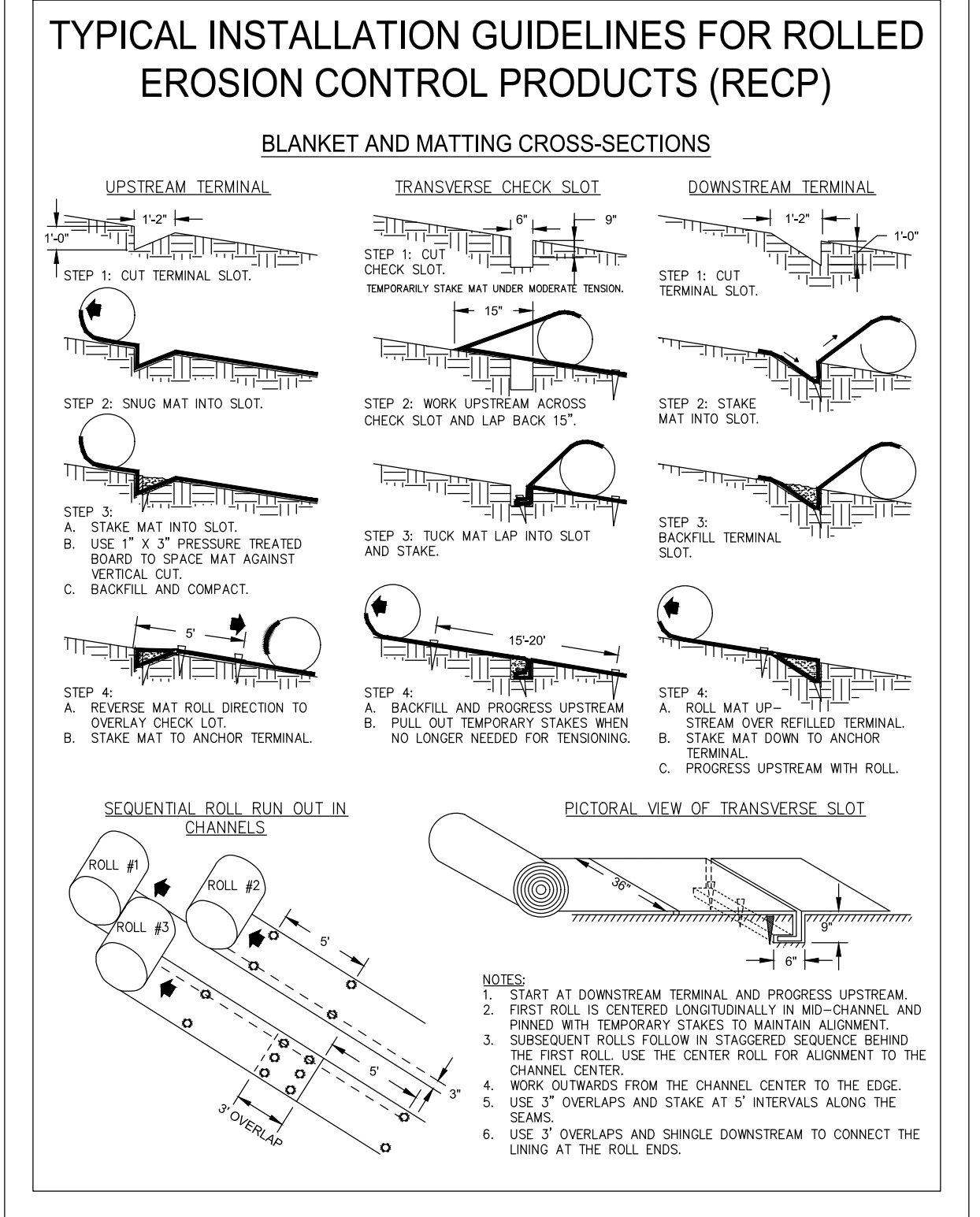
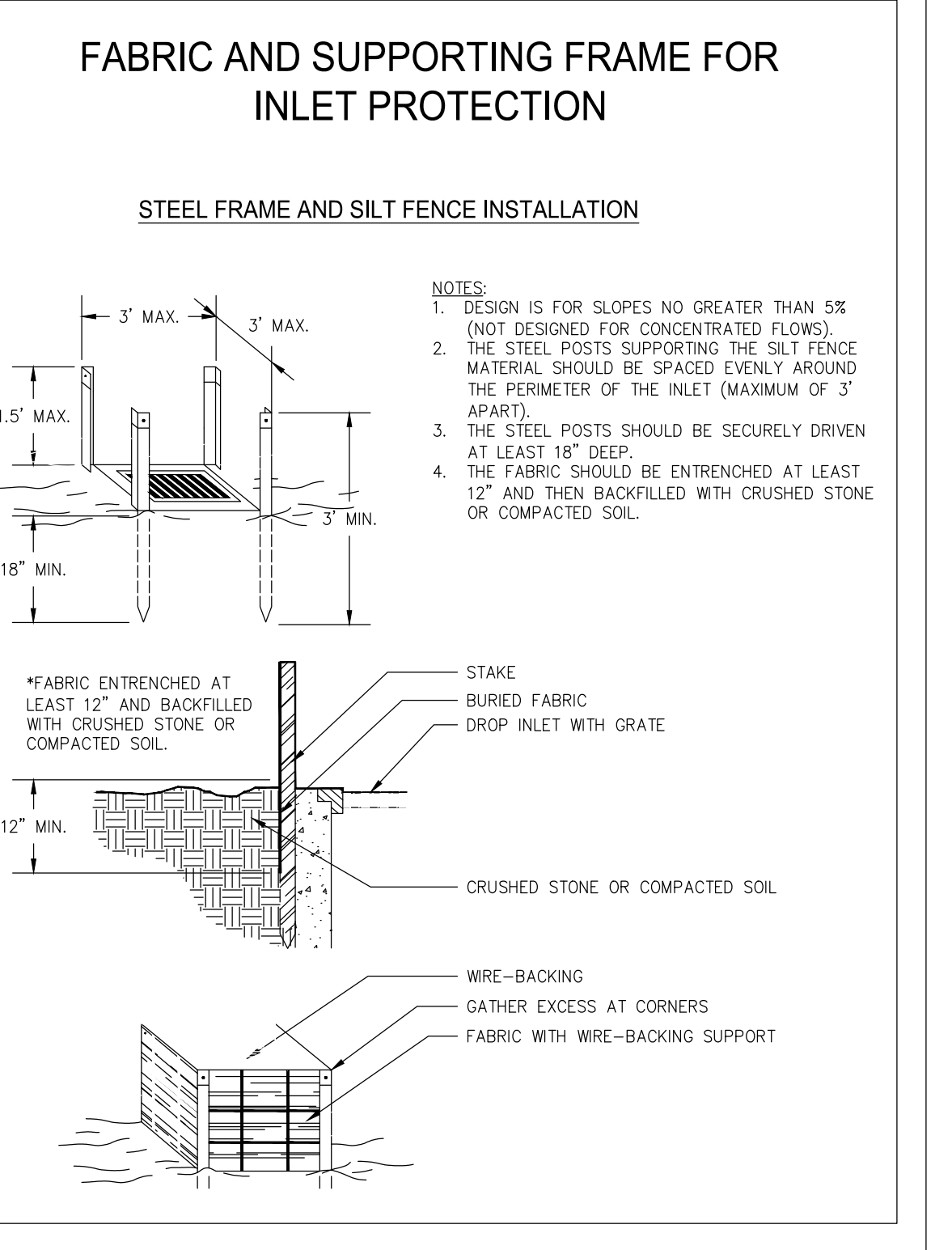
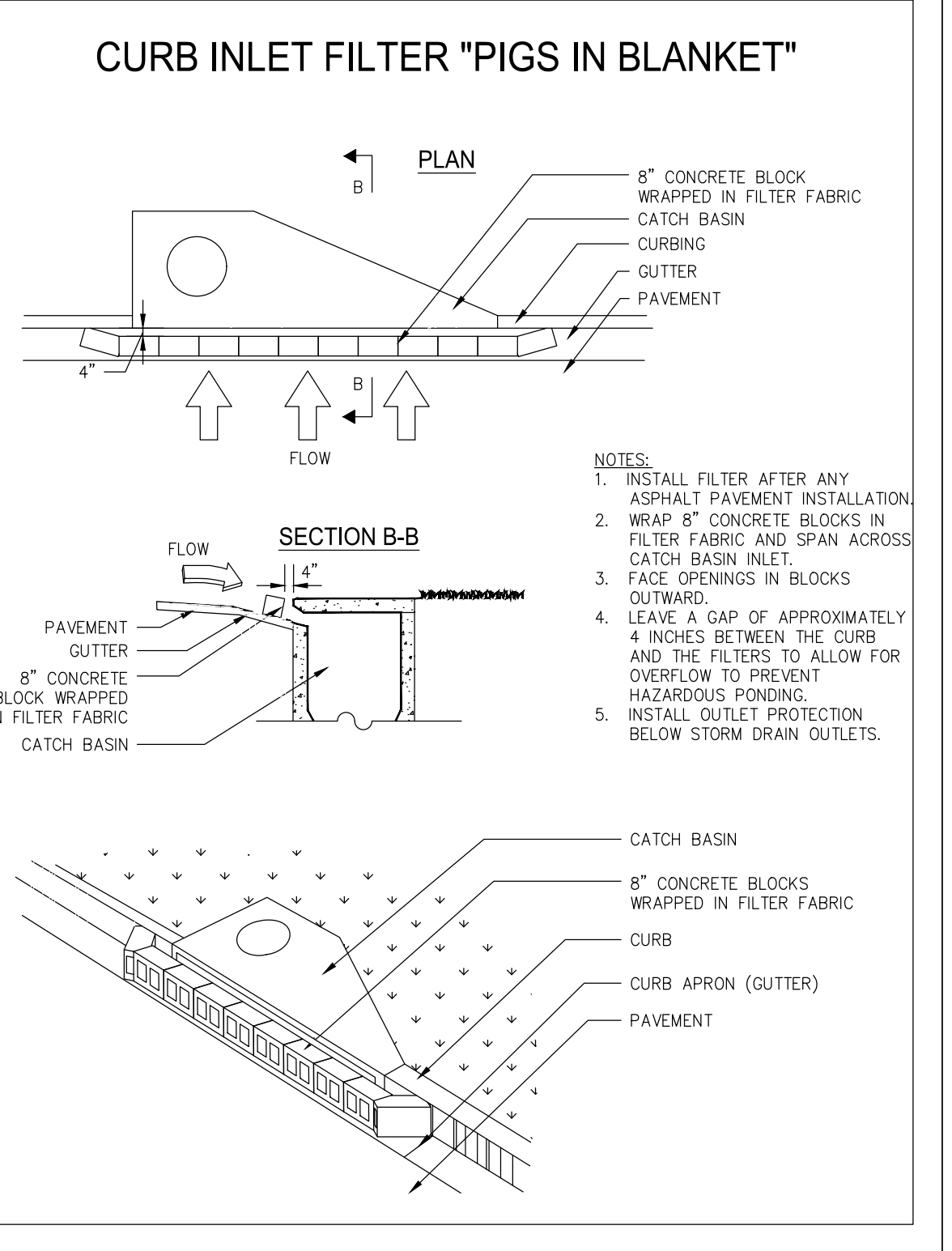
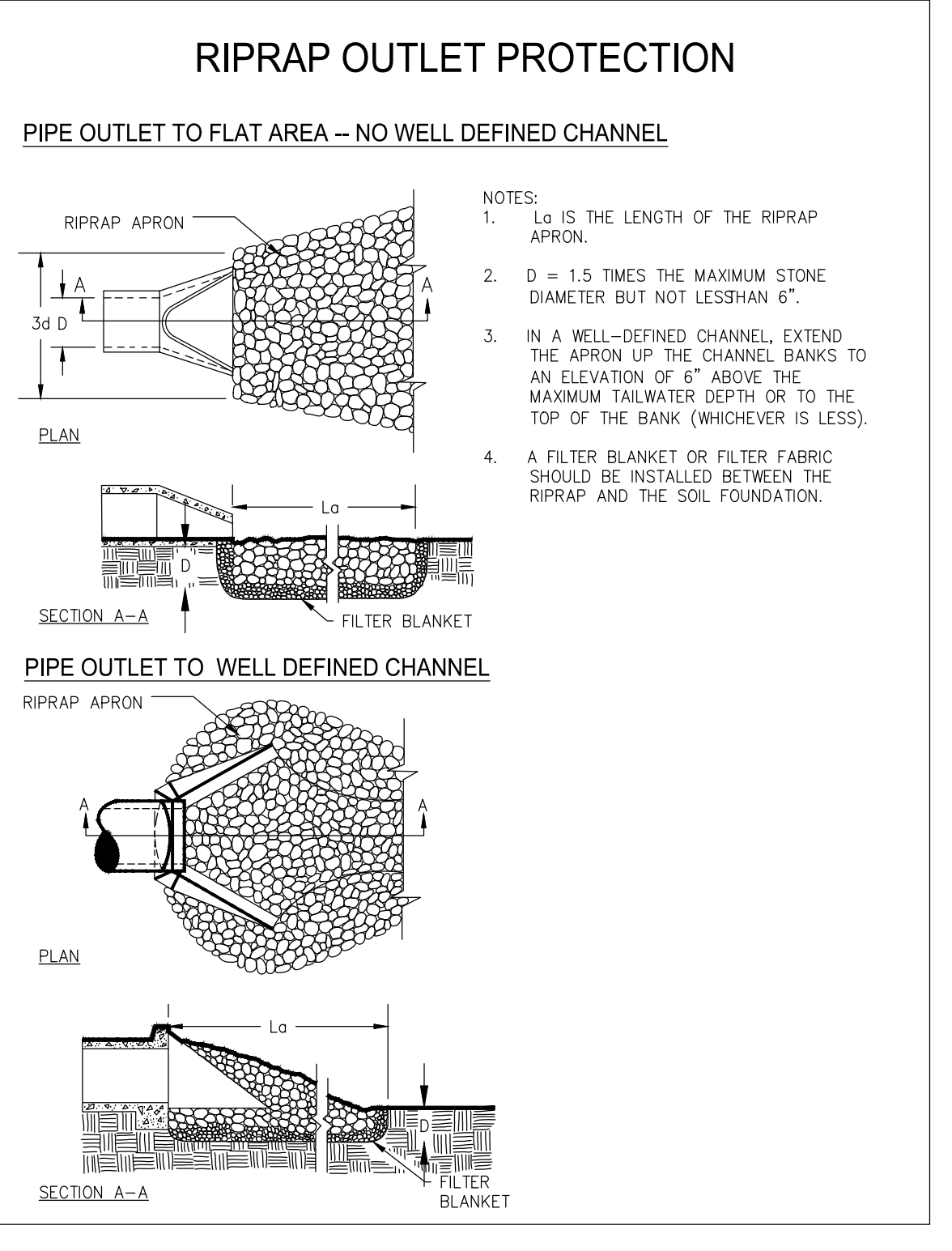
CONSULTANT PROJECT #
200510-01-001



PLAN STATUS
2024/1/22 FOR CONSTRUCTION

DATE	DESCRIPTION
KDW	RWH
DESIGN	CHKD
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C4.3

January 17, 2024
File Path: \\202510 - City of Dacula\202510-01-001 (ENG) - 365 Whisper Way\Engineering\202510-01-001-001 C4.3 ERO.Dwg
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RIP-RAP SIZE CHART

STRUCTURES	Do	FLOW RATE (CFS)	VELOCITY (FPS)	TAIL WATER MAX	La	W ₁	W ₂	d ₅₀	d _{max}	D APRON THICKNESS
PROPOSED HW 1A	36"	41.16	8.30	MAX	20'	9.0'	23'	0.60'	0.90'	1.35'
PROPOSED HW 1C	36"	31.02	7.71	MIN	20'	9.0'	23'	0.60'	0.90'	1.35'

Sd2-P TEMP INLET SEDIMENT TRAP
NTS

Sd2-F TEMP INLET SEDIMENT TRAP
NTS

St OUTLET PROTECTION

EROSION CONTROL CONSTRUCTION SCHEDULE

ACTIVITY	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9	MONTH 10	MONTH 11	MONTH 12	MONTH 13	MONTH 14	MONTH 15
START CONSTRUCTION 8/1/2016	█														
INSTALLATION OF SILT FENCE & TEMPORARY SEDIMENT TRAP	█	█													
CLEARING & GRUBBING	█	█	█	█											
GRADING	█	█	█	█	█										
INSTALLATION OF STORM WATER STRUCTURES AND PIPES			█	█	█										
TEMPORARY GRASSING	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
PAVING/BASE										█	█	█	█	█	█
PERMANENT VEGETATION														█	█
MAINTENANCE OF EROSION CONTROL MEASURES															█
REMOVE TEMPORARY STRUCTURES															█
END OF CONSTRUCTION															█

THIS SCHEDULE IS FOR EROSION CONTROL ONLY, AND IS NOT A PROJECT CONSTRUCTION SCHEDULE.

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 100-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)

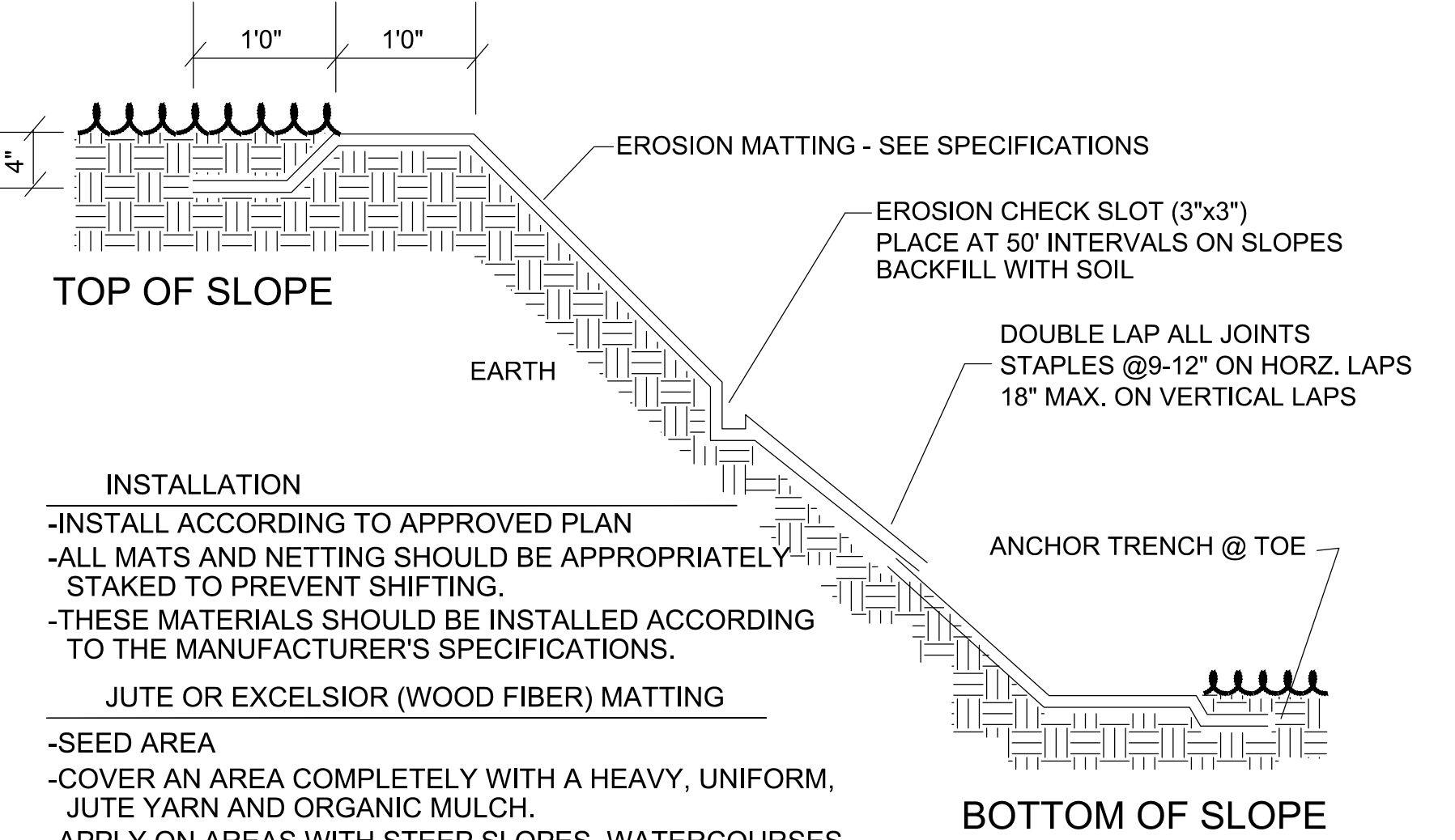
LIME FERTILIZER - APPLICATION

A. WHEN HYDRAULIC SEEDING EQUIPMENT IS USED:
 A.A. 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.
 A.B. 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:
 B.A. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED THE SOIL DURING SEEDBED PREPARATION; OR,
 B.B. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS, OR BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
 B.D. 'JA' FERTILIZER PELLET WILL BE PLACED AT ROOT DEPTH BESIDE EACH PINE TREE SEEDLING.

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	—
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	—
	Maintenance	0-10-10	400 lbs./ac.	—
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	—
	Second	10-10-10	1300 lbs./ac. 3/	—
	Maintenance	10-10-10	1100 lbs./ac.	—
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	—
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	—
	Maintenance	0-10-10	700 lbs./ac. 4/	—
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac. 6/
	Second	0-10-10	1000 lbs./ac.	—
	Maintenance	0-10-10	400 lbs./ac.	—

- 1/ Apply in spring following seeding.
- 2/ Apply in split applications when high rates are used.
- 3/ Apply in 3 split applications.
- 4/ Apply when plants are pruned.
- 5/ Apply to grass species only.
- 6/ Apply when plants grow to a height of 2 to 4 inches.



INSTALLATION

- INSTALL ACCORDING TO APPROVED PLAN
- ALL MATS AND NETTING SHOULD BE APPROPRIATELY STAKED TO PREVENT SHIFTING.
- THESE MATERIALS SHOULD BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

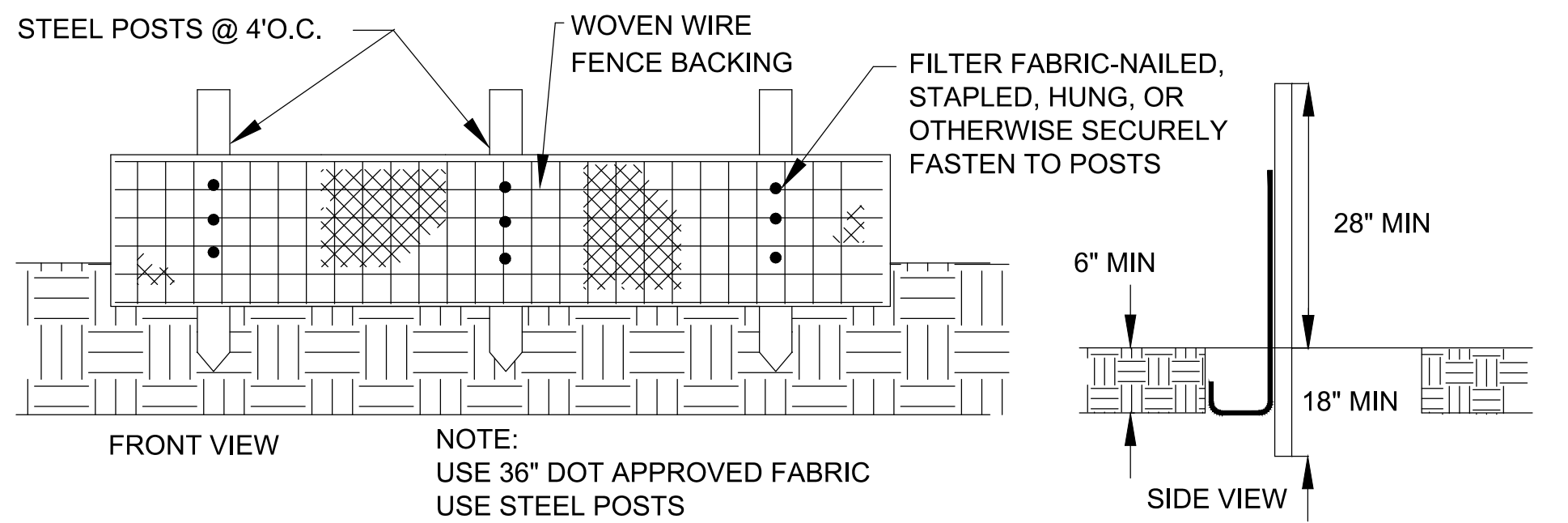
JUTE OR EXCELSIOR (WOOD FIBER) MATTING

- SEED AREA
- COVER AN AREA COMPLETELY WITH A HEAVY, UNIFORM, JUTE YARN AND ORGANIC MULCH.
- APPLY ON AREAS WITH STEEP SLOPES, WATERCOURSES OR WHERE VEGETATION NEEDS TO BE QUICKLY ESTABLISHED.

FIBERGLASS ROVING

- SEED AREA
- APPLY FIBERGLASS WITH A COMPRESSED AIR EJECTOR, AT A RATE OF 1/2-1 TON PER ACRE AND TACK WITH EMULSIFIER (ASPHALT) AT A RATE OF 25-35 GAL/1000 FT
- PLACE IN WATERCOURSES OR ON MODERATE SLOPES FOR STABILIZATION AND TO PROVIDE A SUITABLE MICROCLIMATE FOR SEEDS.

Ss SLOPE STABILIZATION
NTS



Sd1 EROSION CONTROL FENCING TYPE "S"
NTS

24 HOUR CONTACT
BRITNI NIX
CONTACT NUMBER
(770) 963-7451



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EROSION CONTROL DETAILS
WHISPER WAY STORM IMPROVEMENTS
 FOR
 CITY OF DACULA, GA
 GWINNETT COUNTY

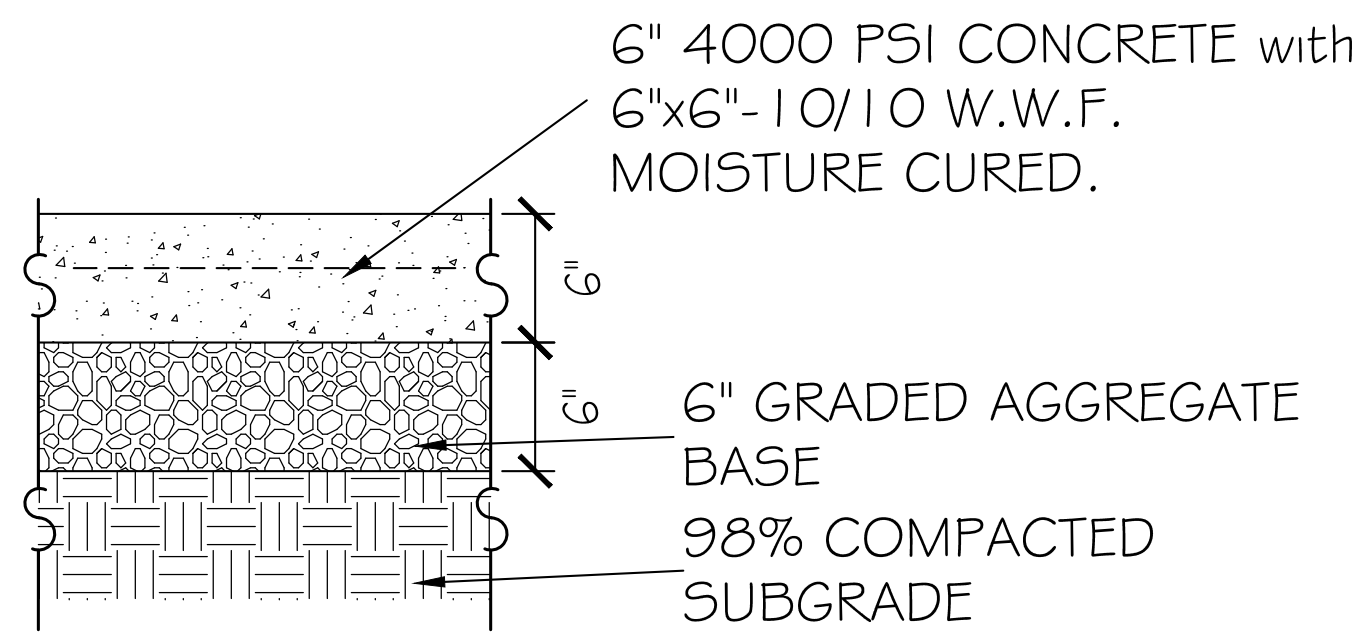
CONSULTANT PROJECT #
200510-01-001



LEVEL II BAS CERT #945
 EXP. DATE 09-27-24

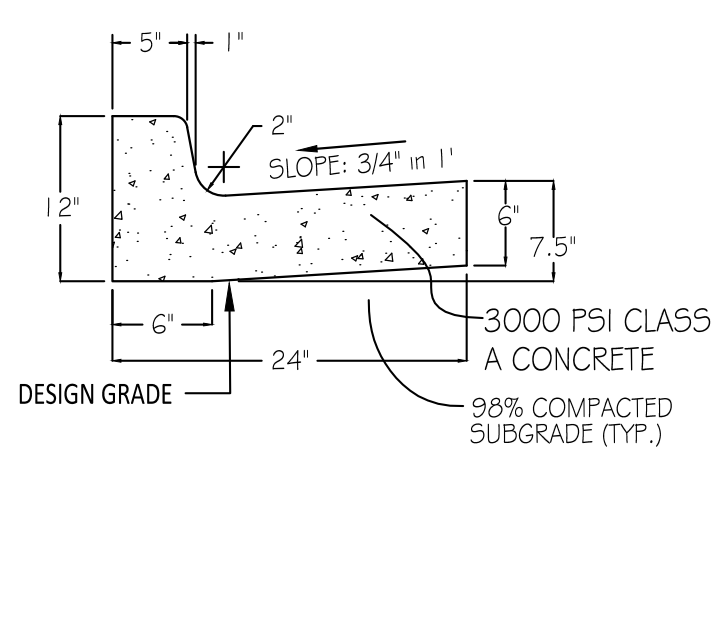
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2024/1/22	FOR CONSTRUCTION

DATE	DESCRIPTION
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SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
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SHEET No.	C4.4

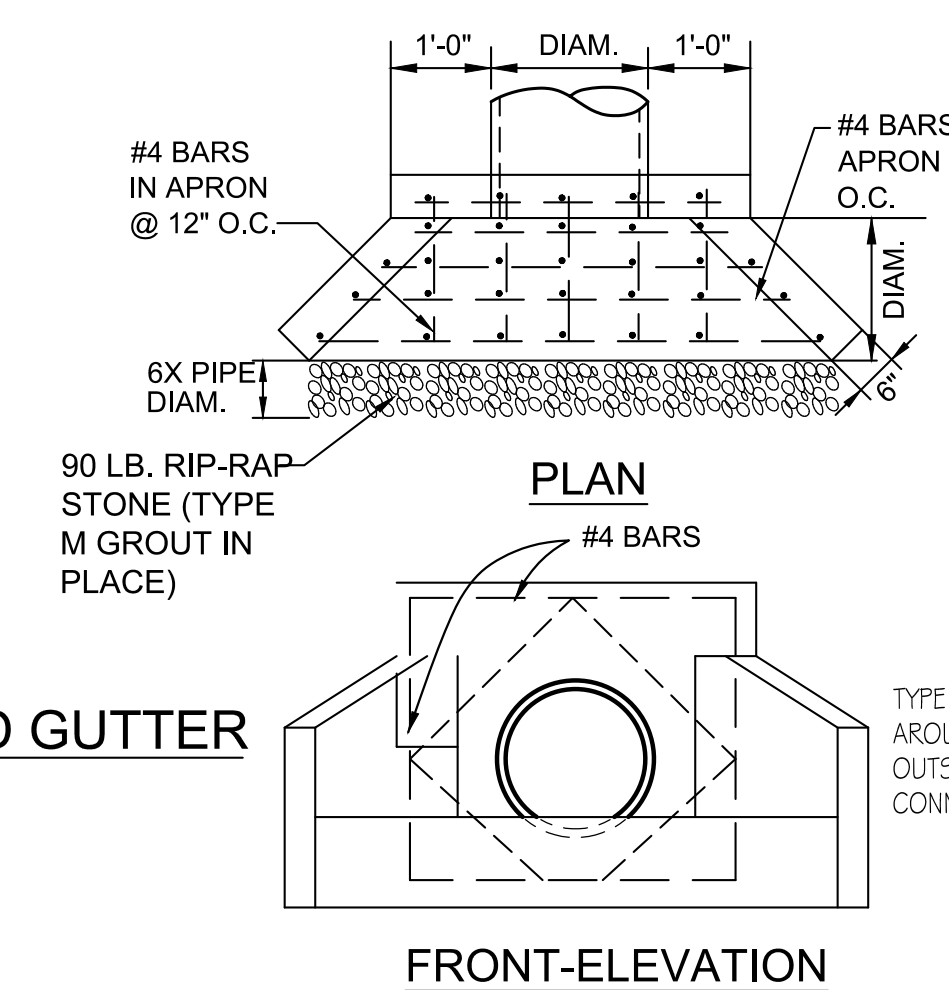


1 CONCRETE DRIVEWAY PAVEMENT
C5.0 NTS

- 1-1/2" MIN. HOT MIX ASPHALT TYPE "F" SURFACE COURSE
- SHALL CONSIST OF PLANT OR HOT-MIX ASPHALTIC CONCRETE TO BE PLACED ON PREVIOUSLY PREPARED SURFACES.
- PLACE ASPHALTIC CONCRETE ONLY WHEN PRIMED OR TACK COATED BASE COURSE IS DRY, WHEN THE WEATHER IS NOT RAINY AND WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE FORTY (40) DEGREES F.
- MIXING AND PLACING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE BEST PRACTICES AND ASTM D 995.
- PLACE MIXTURE WITH AN ACCEPTABLE BITUMINOUS SPREADER.
- HOT MIX ASPHALT WEARING COURSE TO BE APPLIED A MINIMUM OF 7 DAYS AFTER CONCRETE.
- PERFORM COMPACTION BY THE THREE-WHEEL ROLLERS AND TANDEM ROLLERS.
- BEGIN ROLLING OF MIXTURE AS SOON AFTER PLACING AS THE MIXTURE WILL BEAR THE ROLLING WITHOUT UNDUE DISPLACEMENT.
- PERFORM TESTS FOR CONFORMITY WITH SPECIFIED CROWN, GRADE AND SMOOTHNESS IMMEDIATELY AFTER INITIAL COMPRESSION.
- BEFORE CONTINUING THE ROLLING, CORRECT ANY VARIATIONS BY REMOVING OR ADDING MATERIALS.
- CONTINUE ROLLING UNTIL ALL ROLLER MARKS ARE ELIMINATED AND DENSITY HAS BEEN OBTAINED OF AT LEAST NINETY-SIX (96%) PERCENT OF THE DENSITY OF A LABORATORY SPECIMEN OF THE SAME MIXTURE SUBJECTED TO FIFTY (50) BLOWS OF A STANDARD MARSHALL ON EACH SIDE OF SPECIMEN.
- DURING ROLLING, MOISTEN THE WHEELS OF THE ROLLERS TO PREVENT ADHESION OF THE MIXTURE TO THE WHEELS BUT AN EXCESS OF WATER WILL NOT BE PERMITTED.
- IN ALL PLACES NOT ACCESSIBLE TO THE ROLLER, COMPACT MIXTURE THOROUGHLY WITH HOT HAND TAMPERS.
- HAND TAMPERS SHALL WEIGH NOT LESS THAN TWENTY-FIVE (25) POUNDS AND SHALL HAVE A TAMPING FACE OF NOT MORE THAN FIFTY (50) SQUARE INCHES.
- MAKE SURE ALL JOINTS PRESENT THE SAME TEXTURE, DENSITY AND SMOOTHNESS AS OTHER SECTIONS OF THE COURSE.
- FINISHED SURFACE SHALL NOT VARY MORE THAN 1/8 INCH WHEN TESTED WITH A TEN (10) FOOT STRAIGHTEDGE APPLIED BOTH PARALLEL WITH AND AT RIGHT ANGLES TO CENTERLINE OF THE PAVED AREA.



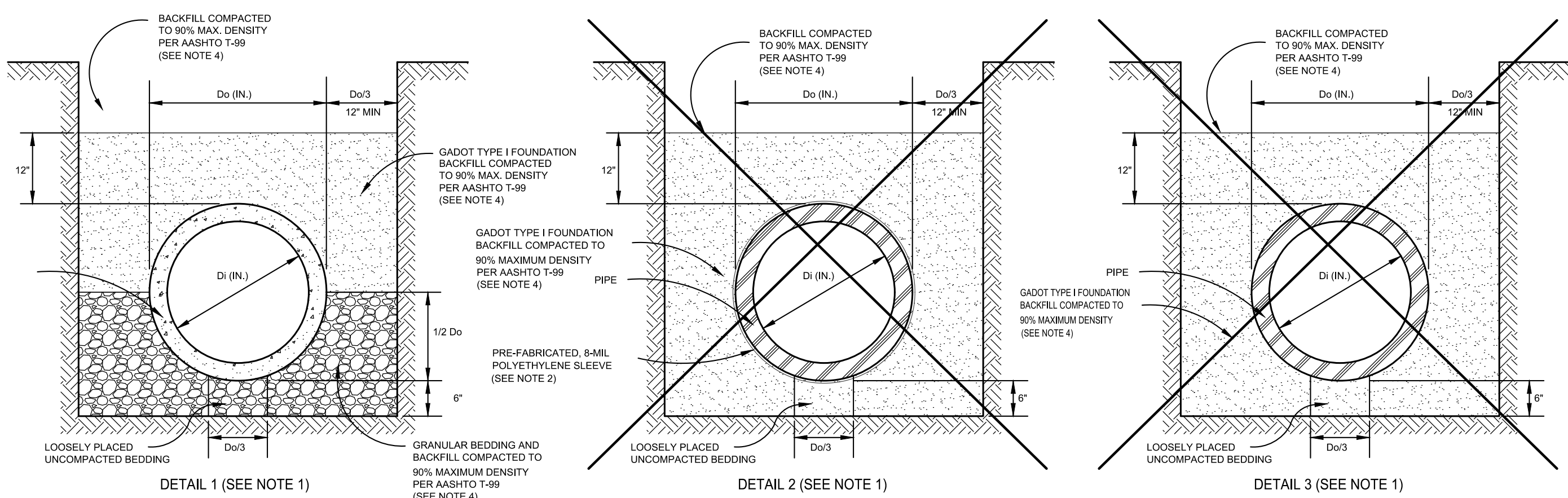
2 24" CONCRETE CURB AND GUTTER
C5.0 N.T.S.



3 CONCRETE HEADWALL DETAIL (HW)
C5.0 N.T.S.

- TACK COAT
1. APPLY TACK COAT TO CONCRETE BASE COURSE IMMEDIATELY PRIOR TO SPREADING SURFACE COURSE MATERIALS.
 - CONCRETE SURFACES TO BE CLEANED AND BITUMINOUS TACK COAT APPLIED BEFORE PLACEMENT OF ASPHALT TOPPING.
 - APPLY FROM 0.05 TO 0.15 GALLONS PER SQUARE YARD OF SURFACE TO BE COVERED AS DIRECTED BY ARCHITECT.
 - EMULSIFIED ASPHALT SHALL BE DILUTED WITH AN EQUAL PART OF WATER.
 - APPLY TACK COAT BY MEANS OF A BITUMINOUS DISTRIBUTOR SO THAT A UNIFORM DISTRIBUTION IS OBTAINED AT ALL POINTS.
 - APPLY TACK COAT ON CONCRETE BASE COURSE AND ALLOW TO CURE BEFORE PLACING THE SUCCEEDING COURSE.

5 PAVEMENT PATCH DETAIL
C5.0 N.T.S.



- NOTES
- 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.
 - 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.
 - ALLOWABLE GRANULAR MATERIALS SHALL BE GRADED AGGREGATE BASE, CRUSHER RUN, GADOT FOUNDATION BACKFILL MATERIAL TYPE II, OR GADOT MECHANICALLY STABILIZED EMBANKMENT BACKFILL. WITHIN STREET RIGHT-OF-WAY.
 - BACKFILL SHALL BE COMPACTED TO 95% MAX DENSITY PER AASHTO T-99

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

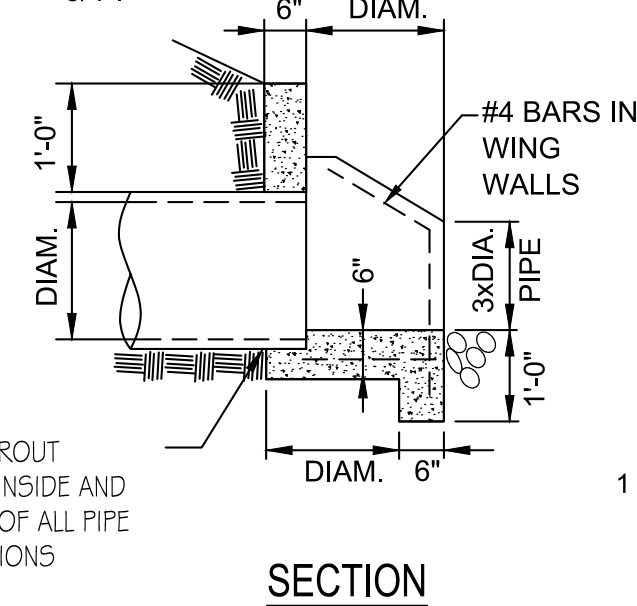
GWINNETT COUNTY DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING
STANDARD PIPE BEDDING DETAILS
DATE: FEBRUARY 2007 SHEET: 710

24 HOUR CONTACT
BRITNI NIX
CONTACT NUMBER
(770) 963-7451

GEORGIA811
www.Georgia811.com

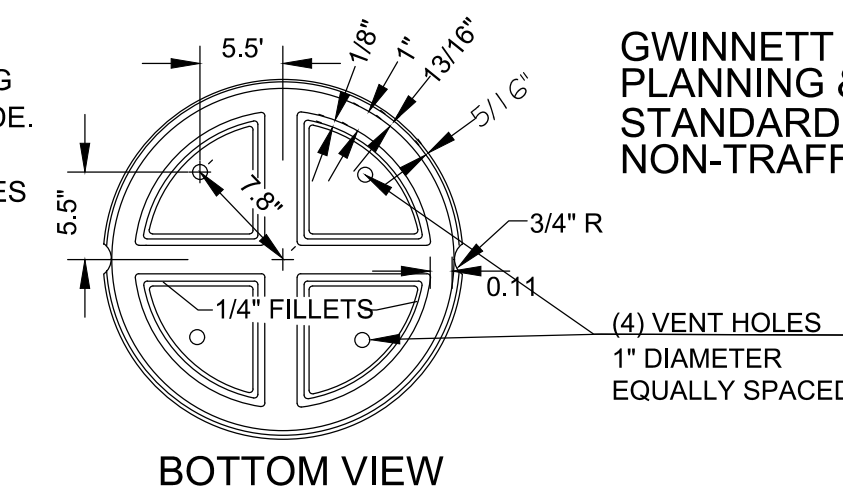
6 STANDARD PIPE BEDDING DETAILS
C5.0 N.T.S.

NOTES
ALL CONC. SHALL BE 4000 PSI REINFORCING SHALL BE 1/2" DIA. OF INTERMEDIATE GRADE. PLACE REINFORCING WITH 2" MIN. CLEARANCE. CHAMFER ALL EXPOSED EDGES 3/4".



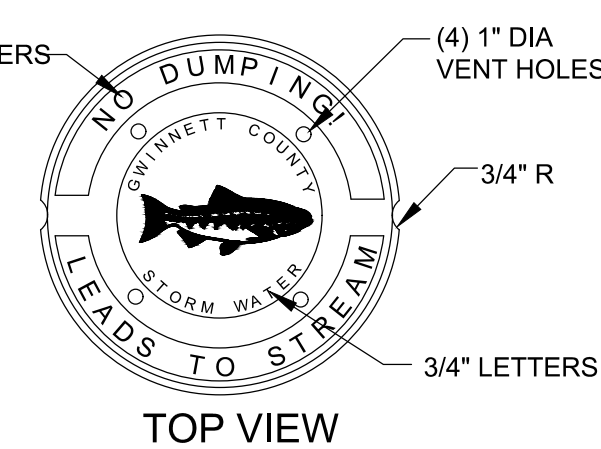
7 DOUBLE WING CATCH BASIN DETAIL (DWCB) (GADOT STD. 1034D)
C5.0 NTS

GWINNETT COUNTY DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING
MANHOLE CASTINGS
NON-TRAFFIC AREAS DETAIL # 611

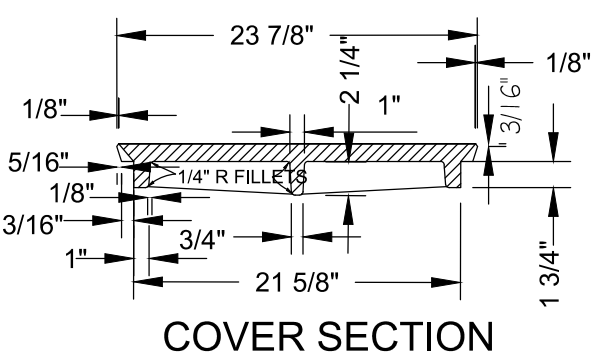


BOTTOM VIEW

LID BY U.S. FOUNDRY: #EO "GWINNETT COUNTY STORM WATER - NO DUMPING" OR APPROVED EQUAL.



TOP VIEW

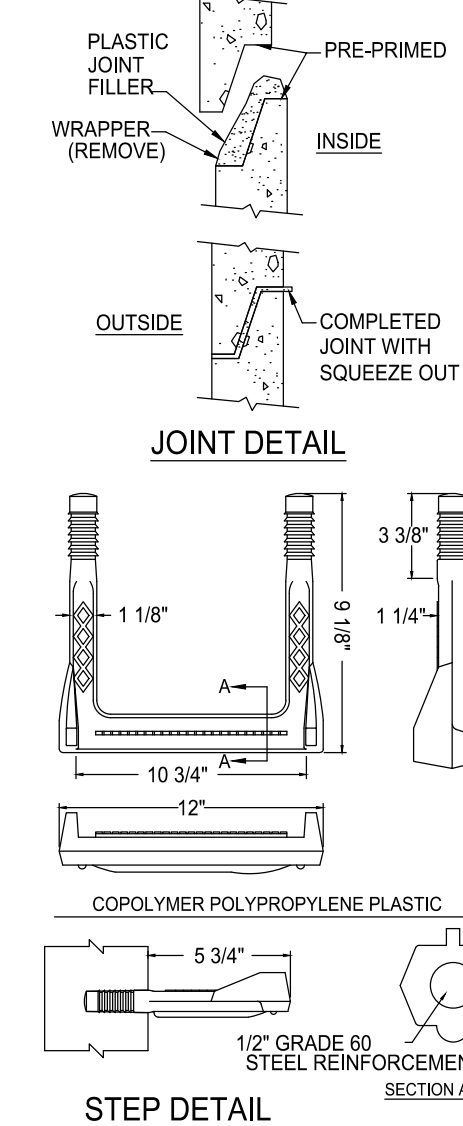


COVER SECTION

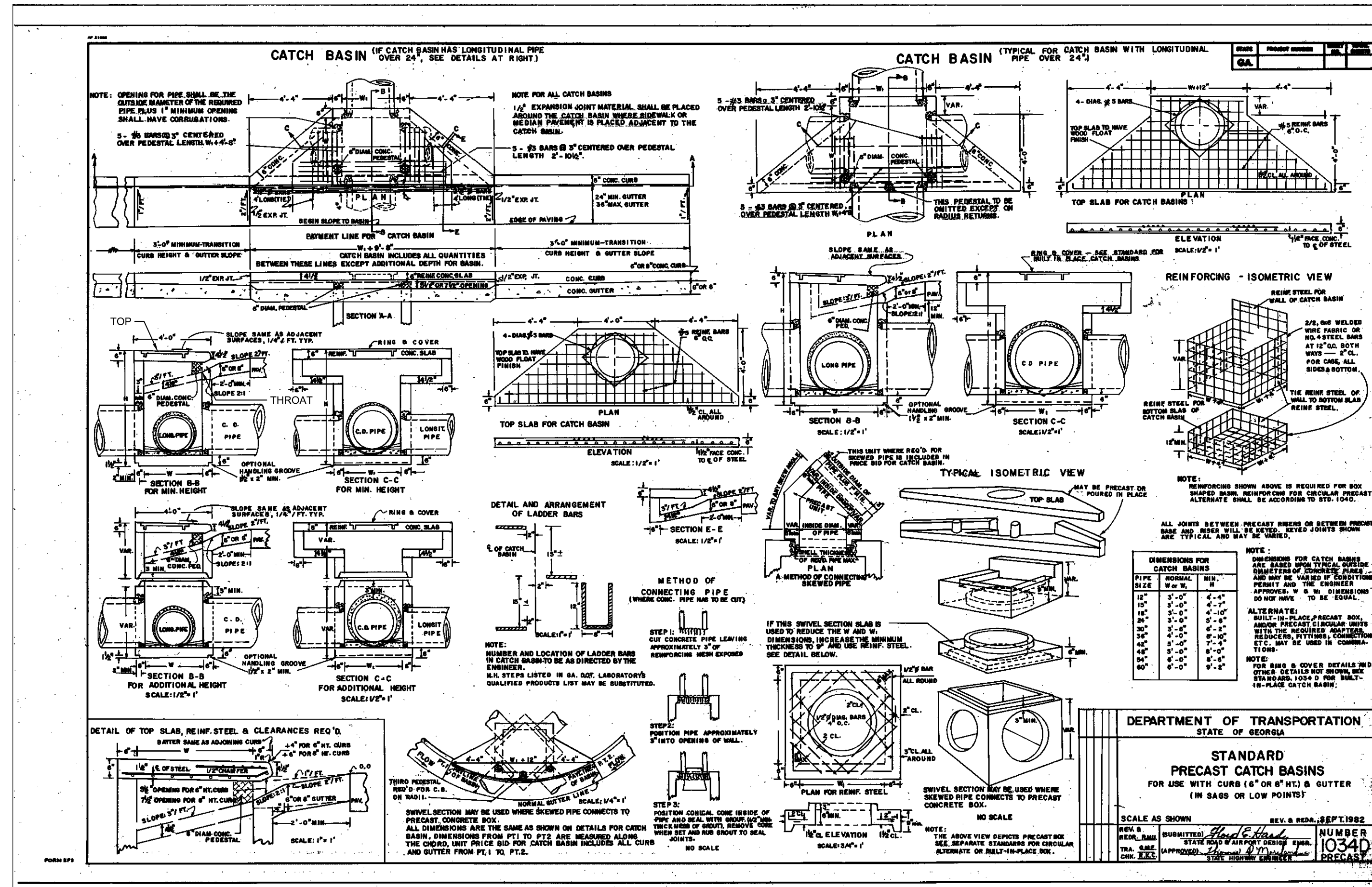
4 LID AND STORM STRUCTURE DETAIL
C5.0 N.T.S.

JUNCTION BOX SHOWN TO MEET GADOT STD. 1011A STANDARD PRECAST REINFORCED CONCRETE MANHOLE

- NOTES:
- THIS DETAIL IS FOR 4'-0" (INSIDE DIAMETER) MANHOLE UP TO 12' DEEP.
 - PRECAST REINFORCED CONCRETE TOPS, RISERS, BASES AND REBARS SHALL CONFORM TO LATEST ASTM C-78 STD. SPECS.
 - INTERIOR AND CEILING OF MANHOLE SHALL BE COATED IN ACCORDANCE WITH SPECS.
 - MANUFACTURER CERTIFICATION THAT MANHOLE MEETS ASTM SPECIFICATION SHALL BE SUBMITTED
 - MANHOLE STEPS TO BE INSTALLED IN A VERTICAL ROW ON 16" CENTERS.



STEP DETAIL



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
PRECAST CATCH BASINS
FOR USE WITH CURB (6" OR 8" H) & GUTTER
(IN SADS OR LOW POINTS)
SCALE AS SHOWN
REV. 8/2012
NUMBER
1034D
DATE

Bowman
Certificate of Authorization License No. LS#001241

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CONSTRUCTION DETAILS
WHISPER WAY STORM IMPROVEMENTS
FOR
CITY OF DACULA, GA

CONSULTANT PROJECT #
200510-01-001

LEVEL II BAS CBT-#945
EXPI. DATE 09-27-24
PLAN STATUS
2024/1/22 FOR CONSTRUCTION

DATE DESCRIPTION
KDW RWH KDW
DESIGN DRAWN CHKD

SCALE 1" = 20'

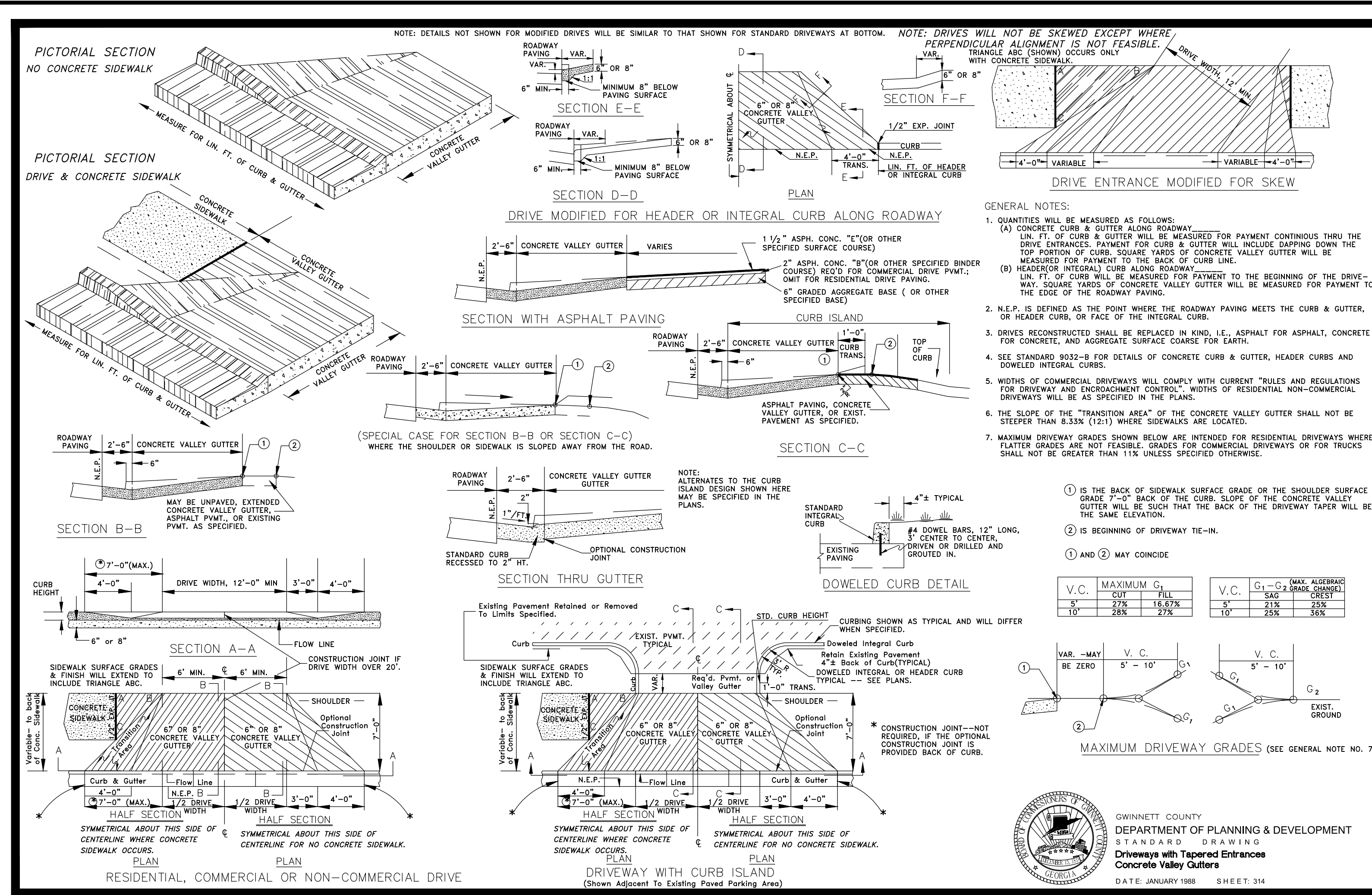
JOB No. 200510-01-001

DATE 01/22/2024

FILE No.

SHEET No. C5.0

January 17, 2024
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 Plot Sheet: 1 of 1
 Plot Status: FOR CONSTRUCTION
 Plot User: jwhitman



1 CONCRETE DRIVEWAY APRON
C5.1 NTS

24 HOUR CONTACT
 BRITNI NIX
 CONTACT NUMBER
 (770) 963-7451



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CONSTRUCTION DETAILS
WHISPER WAY STORM IMPROVEMENTS
 FOR
 CITY OF DACULA, GA
 GWINNETT COUNTY

CONSULTANT PROJECT #
 200510-01-001



LEVEL II E&S CERT.#945
 EXP. DATE 08-27-24

PLAN STATUS
 2024/1/22 FOR CONSTRUCTION

DATE	DESCRIPTION
KDW	RWH
DESIGN	CHKD
SCALE	1" = 20'
JOB No.	200510-01-001
DATE :	01/22/2024
FILE No.	
SHEET No.	C5.1