Forsyth County Procurement

Donna H. Kukarola, CPPO< CPPB Director

May 21, 2020

ADDENDUM #1

BID NO. 20-65-5212

For: Construction of refresh of Caney Creek Preserve

This addendum supersedes and supplements all portions of the bidding documents and becomes part of the contract documents for the above-referenced project.

Where any item called for in the specifications or indicated on the drawings is supplemented hereby, the original requirements shall remain in effect.

Where any original item is amended, voided or superseded hereby, the provision of such item not so specifically amended, voided or superseded shall remain in effect.

Questions received: ***(response in italics)***

1. The Plans appear to be in 11” x 17” format and not the full size set, how can we obtain the full set?
   Please see attached.

End of Addendum #1

Caney Creek Preserve
Park Improvements
Site Development Plans

Consultants

Landscape Architect

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Corp. NC License: F-1320

Civil Engineer

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Corp. NC License: F-1320

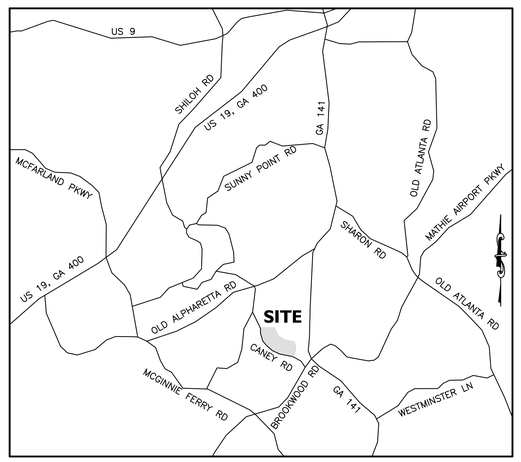
Surveyor

Singleton Land Surveying Company Inc.
8641 Dorris Road, Suite 140C,
Douglasville, Georgia 30134
P (770)577-7001

Owner/Developer

Forsyth County
110 East Main Street,
Cumming, Georgia 30040
P (770)781-2101

Forsyth County, Georgia
Parcel ID: 112264



Vicinity Map

Schedule of Drawings

Civil/Landscape Architectural

Irrigation

Site Address:
Main Entrance = 2755 Caney Road
Secondary Entrance = 3055 Caney Road

Notes

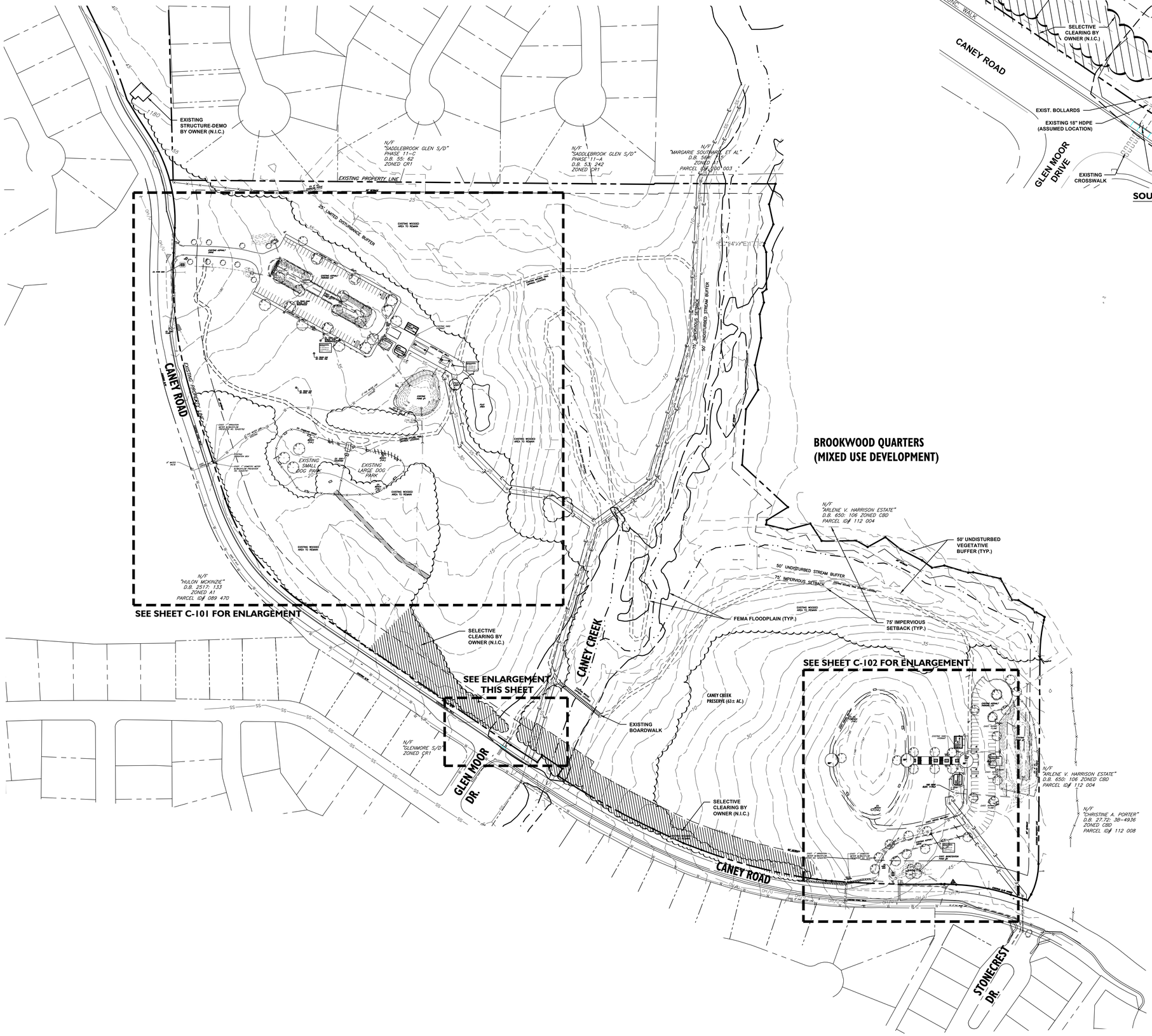
- Source of Water and Sewer is Forsyth County Department of Water & Sewer.
- Notify Forsyth County Water and Sewer Department 24 hours prior to construction (404) 623-4241.
- Certificate of Occupancy will not be issued until final inspections completed by Forsyth County Water & Sewer Department.

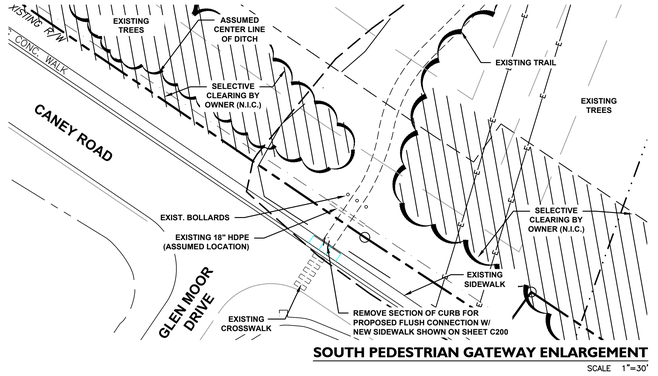
Erosion and Sediment Control 24-Hour Contact
James Weldon (404) 276-3622

Forsyth County Board of Tax Assessors
2nd District, 1st Section, Land Lot(s) 988, 989, 990, 1026, 1027, 1060, 1061 ETAL
Total Area: 61.97 Acres
Total Area Disturbed: 2.0 Acres

Issued For Bids

Date of Issue: 04/27/20 Set No.:_____





SOUTH PEDESTRIAN GATEWAY ENLARGEMENT

SCALE 1"=30'

DEMOLITION/CLEARING NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM 2 SOURCES. HARRISON PROPERTY AS BUILT SURVEY DATED JUNE 2015 PREPARED BY SINGLETON LAND SURVEYING AND FROM FORSYTH COUNTY GIS.
2. PROTECT ADJACENT CURBS, TREES, BUILDINGS, UTILITIES AND OTHER ITEMS TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR PAYMENT OF ANY DAMAGED ITEMS TO REMAIN.
3. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK, BOTH PUBLIC AND PRIVATE. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS CONTRACT.
4. CONTRACTOR SHALL REPORT ANY ENCROACHMENTS OR DISCREPANCIES IMMEDIATELY TO ALFRED BENESCH & COMPANY FOR DECISION.
5. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN EXISTING WOODED AREAS UNLESS SHOWN ON PLAN.
6. CLEARING LIMITS ON THE PLAN INDICATE THE EXTENT OF ALL MAJOR CLEARING REQUIRED, CONTRACTOR IS ALSO RESPONSIBLE FOR ANY INCIDENTAL CLEARING REQUIRED FOR MINOR DISCREPANCIES IN GRADE, UTILITY OR STORM PIPE INSTALLATIONS, EROSION CONTROL MEASURES, ETC.
7. FEMA FIRM PANEL NUMBER: 13117C0227F, 13117C0235F DATE: 03/04/2013.7. THE FLOODPLAIN RUNS THROUGH THE CENTER OF THE CANEY CREEK PRESERVE ON EITHER SIDE OF CANEY CREEK. THIS AREA WILL REMAIN UNDISTURBED.

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

NORTH

100 0 50 100 200

SCALE: 1"=100'

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Seals:

GEORGIA REGISTERED No. 001849 PROFESSIONAL LANDSCAPE ARCHITECT JANET A. ASHBAUGH
4-27-2020

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

Project No:	17.000291
Date:	01.08.20

Revisions:

1. Per County Comments 01.31.20
2. Per County Comments 03.04.20
3. Per County Comments 04.27.20

Sheet Title:
Overall Existing Conditions/ Demolition Plan

Sheet No:
C100

EXISTING PROPERTY LINE

EX. 6' HT CHAINLINK FENCE

25' SETBACK

25' LIMITED DISTURBANCE BUFFER

EXISTING WOODED AREA TO REMAIN

75' IMPERVIOUS SETBACK (TYP.)

EXISTING CHECK DAM

EXISTING ASPHALT DRIVE

EXISTING DITCH CENTERLINE

EX. PARK SIGN

EXISTING CHECK DAM

EXISTING CONC. WALK

EXISTING ASPHALT PARKING LOT

EXIST. BIORETENTION POND #1

EX. TRASH CANS W/DUAL ELEC. RECEPTACLES

EX. CONC. FLUME

EX. TRASH CANS W/DUAL ELEC. RECEPTACLES

BENCHMARK
PK NAIL
N 1491568.25
E 2290565.42
ELEV. = 1170.09'

REMOVE EXIST. TRASH CAN AND PADS. SALVAGE (1) TRASH CAN AND RELOCATE IN DOG PARK AS SHOWN ON THIS SHEET

EX. TRASH CAN ON CONC. PAD

EX. TRASH CAN ON CONC. PAD

SEE ENLARGEMENT THIS SHEET

EX. KIOSK SIGN

EXIST. PICNIC SHELTER F.F.E.=1169.0

EXISTING YARD HYDRANT

BENCHMARK
PK NAIL
N 1491559.13
E 2290681.19
ELEV. = 1170.45'

EXIST. RESTROOMS F.F.E.=1169.0

6" PVC SANITARY SEWER

EXISTING CONC. WALK

15" R.C.P.

6" CO AA-4C

4" CO AA-4D

6" CO AA-4B

6" CO AA-4A

SSMH AA-4

BENCHMARK
PK NAIL
N 1491483.32
E 2290855.42
ELEV. = 1165.47'

PLAY AREA

EXISTING POND #1

100 YEAR ELEV. = 1160.9'

EX. 6' HT CHAINLINK FENCE

2" PVC WATER LINE EXISTING

EXISTING NATURE TRAIL (APPROX. LOCATION)

ALTERNATE NO. 1
REMOVE EXIST. TRASH CAN AND REPLACE WITH SALVAGED TRASH CAN

ALTERNATE NO. 1
REPLACE EX. FENCE FABRIC. SEE SHEET C201 FOR DETAILS

EX. CHAINLINK FENCE

EX. BENCH (TYP.)

EX. DOG FOUNTAIN

EXISTING SMALL DOG PARK

EXISTING LARGE DOG PARK

EX. BENCH (TYP.)

EXISTING WOODED AREA TO REMAIN

EXISTING DITCH

ALTERNATE NO. 1
CLEAR EXISTING TREES AS REQ'D TO INSTALL NEW FENCE. SEE SHEET C201

EXISTING WOODED AREA TO REMAIN

EXISTING WOODED AREA TO REMAIN

EXISTING DITCH

50' UNDISTURBED VEGETATIVE BUFFER (TYP.)

EXISTING NATURAL TRAIL (APPROX. LOCATION)

SANITARY SEWER EASEMENT

SSMH AA-3

SSMH AA-2

SSMH AA-1

SSMH AA-4b

CANEY ROAD

EXISTING R/W

EXISTING PROPERTY LINE

50' SETBACK

EXISTING CONC. WALK

EXIST. 1" IRRIGATION METER W/BACKFLOW PREVENTER NO. 52420792

2" PVC WATER LINE EXISTING

EXISTING IRRIGATION BOX

8" WATER VALVE

EXIST. COPPER PIPE

EXIST. 1" DOMESTIC METER W/BACKFLOW PREVENTER NO. 52420791

EXIST. 6" CMP

N/F
"HULON MCKINZIE"
D.B. 2517, 133
ZONED A1
PARCEL ID# 089 470

REMOVE EXISTING SAND SURFACE AND WASTE IN ON-SITE SPOIL AREA. SEE C301

WEST PROMENADE IMPROVEMENTS ENLARGEMENT
SCALE 1"=20'

NOTE:
CONTRACTOR SHALL REMOVE EXISTING HARDWOOD MULCH IN ISLANDS AND SALVAGE FOR RE-USE

LEGEND

- EXISTING SIGN
- EIP — EXISTING IRON PIN
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- R/W — RIGHT-OF-WAY
- HC — ACCESSIBLE SPACE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING SEWER MANHOLE
- EXISTING STORM MANHOLE
- EXISTING DRAINAGE STRUCTURE
- EXISTING CLEANOUT
- +XXX.X — EXISTING SPOT ELEVATION
- EXISTING GAS VALVE
- EXISTING GAS METER
- OR — EXISTING ITEMS TO BE REMOVED
- EXISTING TREES TO BE CLEARED
- SAWCUT LINE
- EXISTING CURB AND GUTTER
- PROPERTY LINE
- EXISTING FENCE
- UGE — EXISTING UNDERGROUND ELECTRIC LINE
- OH/U — EXISTING OVERHEAD ELECTRIC LINE
- T — EXISTING UNDERGROUND TELEPHONE LINE
- FO/C — EXISTING FIBER OPTIC LINE
- SS — EXISTING SANITARY SEWER LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- XXX — EXISTING CONTOUR LINE
- EXISTING TREELINE
- E — EXISTING EASEMENT

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

NORTH

40 0 20 40 80

SCALE: 1"=40'

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Seals:

GEORGIA REGISTERED No. 001849 PROFESSIONAL LANDSCAPE ARCHITECT JEANETTE A. ASHBAUGH
4-27-2020

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

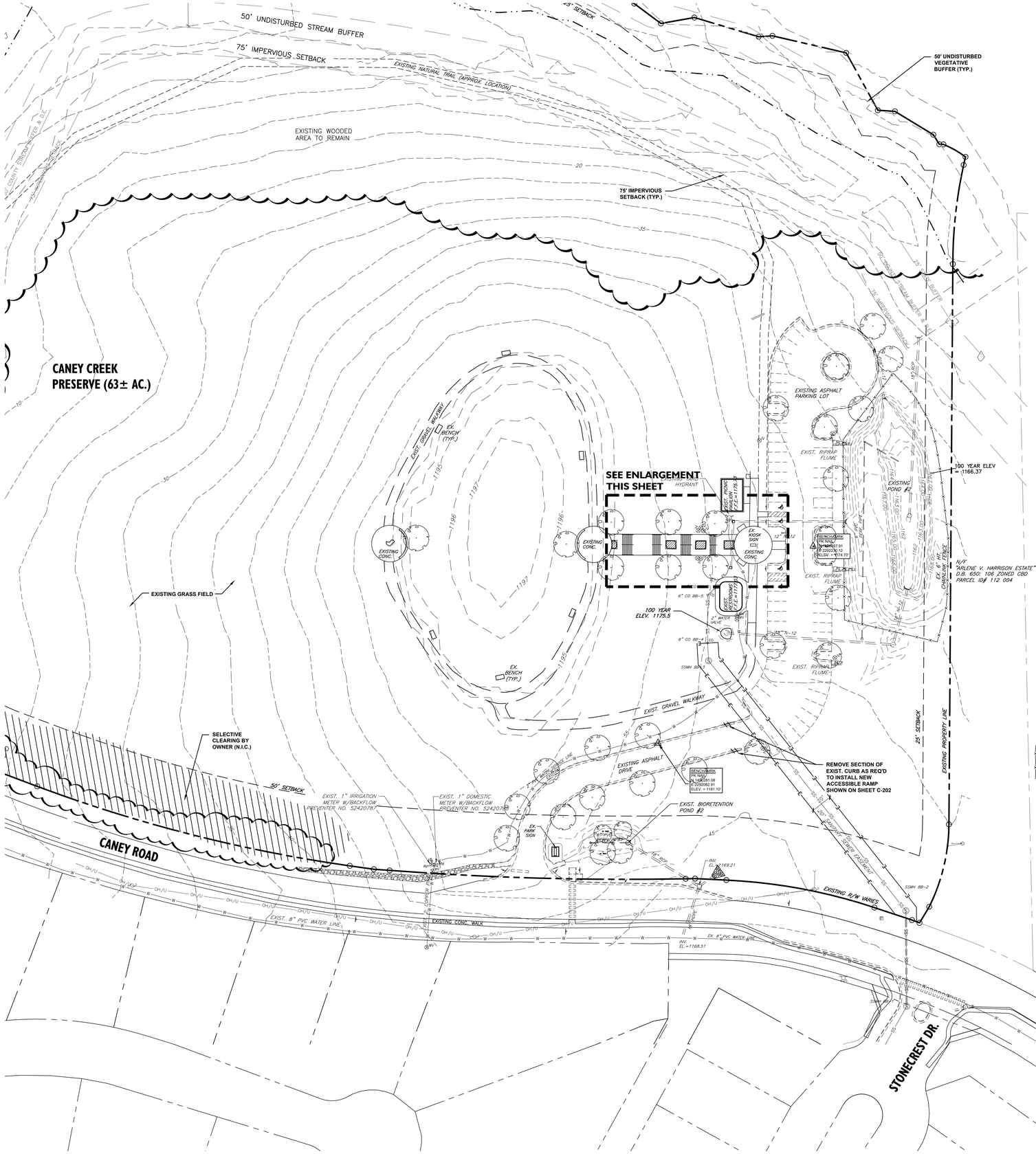
Project No:	17.000291
Date:	01.08.20

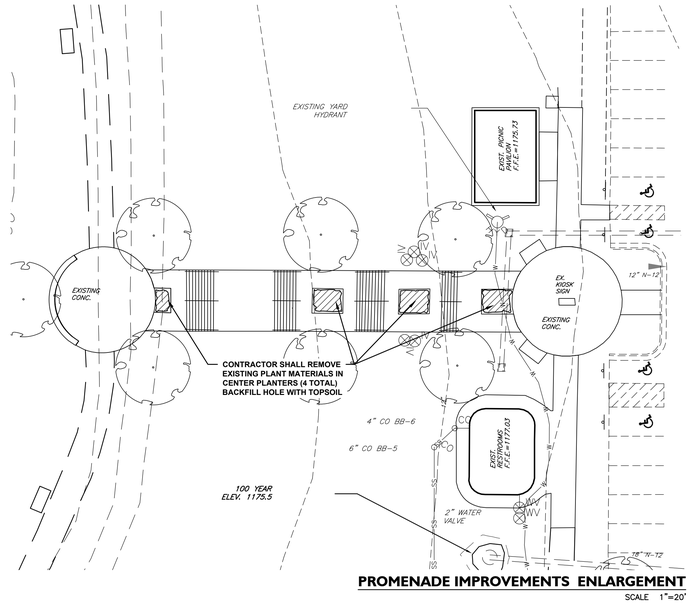
Revisions:

1 Per County Comments 01.31.20
2 Per County Comments 03.04.20
3 Per County Comments 04.27.20

Sheet Title:
Existing Conditions/ Demolition Plan Enlargement-West

Sheet No:
C101





PROMENADE IMPROVEMENTS ENLARGEMENT
SCALE 1"=20'

LEGEND

	EXISTING SIGN	X OR \\\\\	EXISTING ITEMS TO BE REMOVED
EIP	EXISTING IRON PIN		SAWCUT LINE
	EXISTING LIGHT POLE		EXISTING CURB AND GUTTER
	EXISTING UTILITY POLE		PROPERTY LINE
R/W	RIGHT-OF-WAY	x x x	EXISTING FENCE
HC	ACCESSIBLE SPACE	UGE	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING TREE TO REMAIN	OH/U	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING TREE TO BE REMOVED	T	EXISTING UNDERGROUND TELEPHONE LINE
		FO/C	EXISTING FIBER OPTIC LINE
	EXISTING FIRE HYDRANT	SS	EXISTING SANITARY SEWER LINE
WV	EXISTING WATER VALVE	W	EXISTING WATER LINE
WM	EXISTING WATER METER	G	EXISTING GAS LINE
S	EXISTING SEWER MANHOLE	XXX	EXISTING CONTOUR LINE
D	EXISTING STORM MANHOLE		EXISTING TREELINE
	EXISTING DRAINAGE STRUCTURE	E	EXISTING EASEMENT
CO	EXISTING CLEANOUT		
+XXX.X	EXISTING SPOT ELEVATION		
GV	EXISTING GAS VALVE		
GM	EXISTING GAS METER		

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

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Forsyth County

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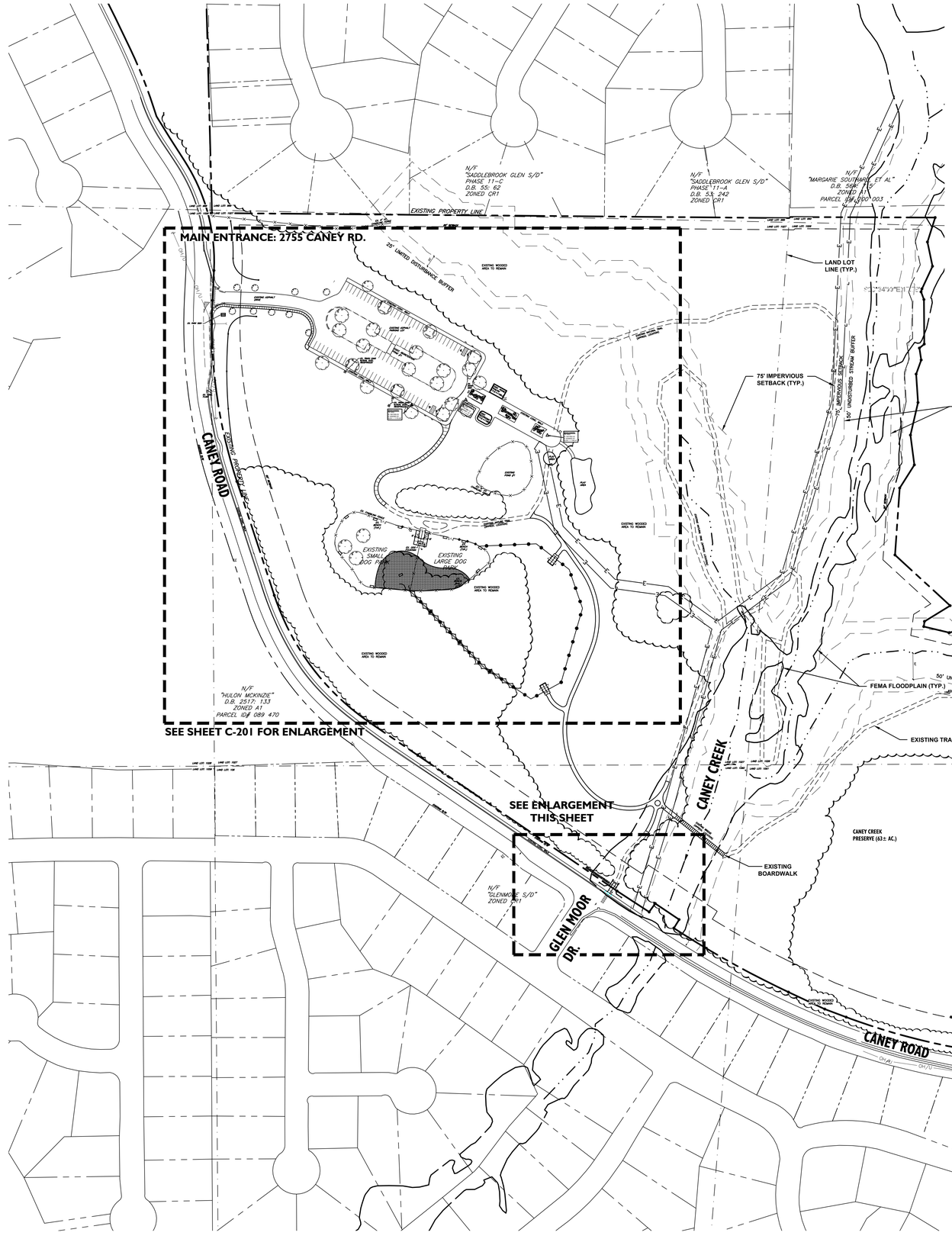
Date:	01.08.20

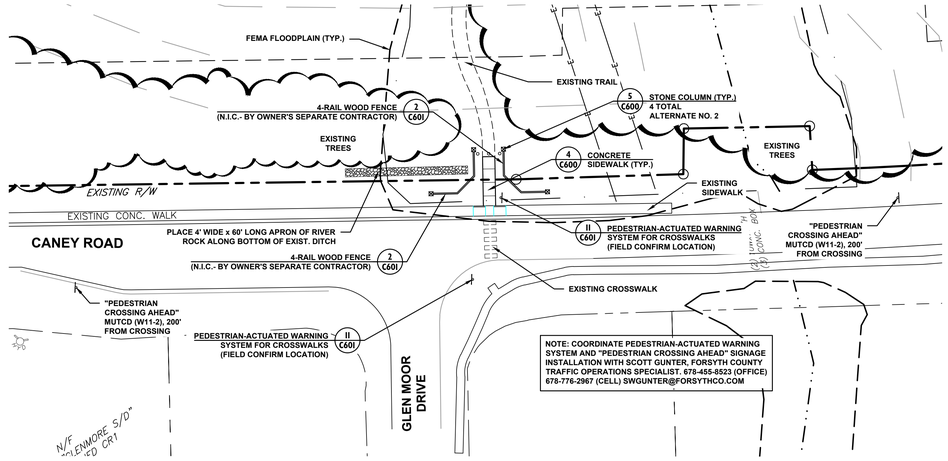
Revisions:

1 Per County Comments	01.31.20
2 Per County Comments	03.04.20
3 Per County Comments	04.27.20

Sheet Title:
Existing Conditions/ Demolition Plan Enlargement-East

Sheet No:
C102





SOUTH PEDESTRIAN GATEWAY ENLARGEMENT

SCALE 1"=30'

NORTH

NOTE: FIELD CONFIRM WIDTH OF EXISTING SANITARY SEWER EASEMENT WITH FORSYTH COUNTY ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION OF STONE COLUMNS AND FENCE.

SITE NOTES

1. DIMENSIONS AND COORDINATE POINTS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CORNER OF BUILDING UNLESS OTHERWISE NOTED.
2. ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL STANDARDS.
3. ANY DISCREPANCIES FOUND IN THE FIELD SHALL BE CALLED TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO PROCEEDING WITH WORK.
4. PRIOR TO BEGINNING CONSTRUCTION, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS (BOTH SITE AND BUILDING RELATED) INCLUDING BUT NOT LIMITED TO REGULATORY FEES, LICENSES, AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
5. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHT-OF-WAYS, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.
6. GENERAL CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND THE PUBLIC SHALL BE PROTECTED FROM INJURY.
7. USE CAUTION WHEN REPRODUCING COPIES OF THE CONSTRUCTION DRAWINGS. COPIES ARE SUBJECT TO DISTORTION AND INACCURACY IN THE SCALE OF DRAWINGS. VERIFY ANY DISCREPANCIES WITH BENESCH.
8. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AS AMENDED.
9. ALL PAVEMENT MARKINGS SHALL BE FOUR (4) INCHES WIDE UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
10. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
11. THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH AN ELECTRONIC FILE OF THESE DRAWINGS UPON REQUEST.
12. STOP BEFORE YOU DIG. CALL 811. IT'S THE LAW.

GENERAL NOTES

1. CONSTRUCTION WASTE AND/OR VEGETATIVE MATERIAL MAY BE BURNED OR BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.
2. PER UDC 10-1.13 OUTSIDE CONSTRUCTION SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 7:00 PM MONDAY TO FRIDAY; 8:00 AM TO 6:00 PM SATURDAY; AND THERE WILL BE NO OUTSIDE CONSTRUCTION ON SUNDAY.
3. ALL STRUCTURES WILL COMPLY WITH THE FIRE SEPARATION DISTANCE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE GA DEPARTMENT OF COMMUNITY AFFAIRS. APPROVAL OF THIS PERMIT WILL NOT JUSTIFY ANY DEVIATION FROM THE FIRE SEPARATION DISTANCES.
4. REQUIRED LANDSCAPING MUST BE IN PLACE PRIOR OF THE APPROVAL OF AN AS-BUILT.
5. AS-BUILT REQUIRED FOR CO PRIOR TO FINAL BUILDING INSPECTION.

FORSYTH COUNTY DEPARTMENT OF ENGINEERING NOTES

1. ALL IMPROVEMENTS TO CONFORM WITH FORSYTH COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.
2. NO STRUCTURES, FENCES, OR OTHER OBSTRUCTIONS MAY BE LOCATED WITHIN A DRAINAGE OR ACCESS EASEMENT WITHOUT PRIOR APPROVAL BY THE FORSYTH COUNTY DEPARTMENT OF ENGINEERING.
3. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY FORSYTH COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND DISTURBANCE.
4. NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.
5. APPROVAL OF THESE PLANS IS SUBJECT TO, AND CONTINGENT UPON THE APPLICANT OBTAINING ANY AND ALL NECESSARY APPROVALS FROM ANY AND ALL APPLICABLE AGENCIES INCLUDING, BUT NOT LIMITED TO THE UNITED STATES ARMY CORPS OF ENGINEERS, THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, USDA-NRCS, GEORGIA DEPARTMENT OF NATURAL RESOURCES, GEORGIA ENVIRONMENTAL PROTECTION DIVISION, AND THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION.
6. ALL UNDISTURBED BUFFERS SHALL BE IDENTIFIED WITH ORANGE, FOUR-FOOT TREE-SAVE FENCING PRIOR TO ANY LAND DISTURBANCE (UDC SEC. 18-10.1).

Total Area: 61.97 Acres
Total Area Disturbed: 2.0 Acres

NORTH

100 0 50 100 200

SCALE: 1"=100'

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Seals:

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Corp. NC License: F-1320

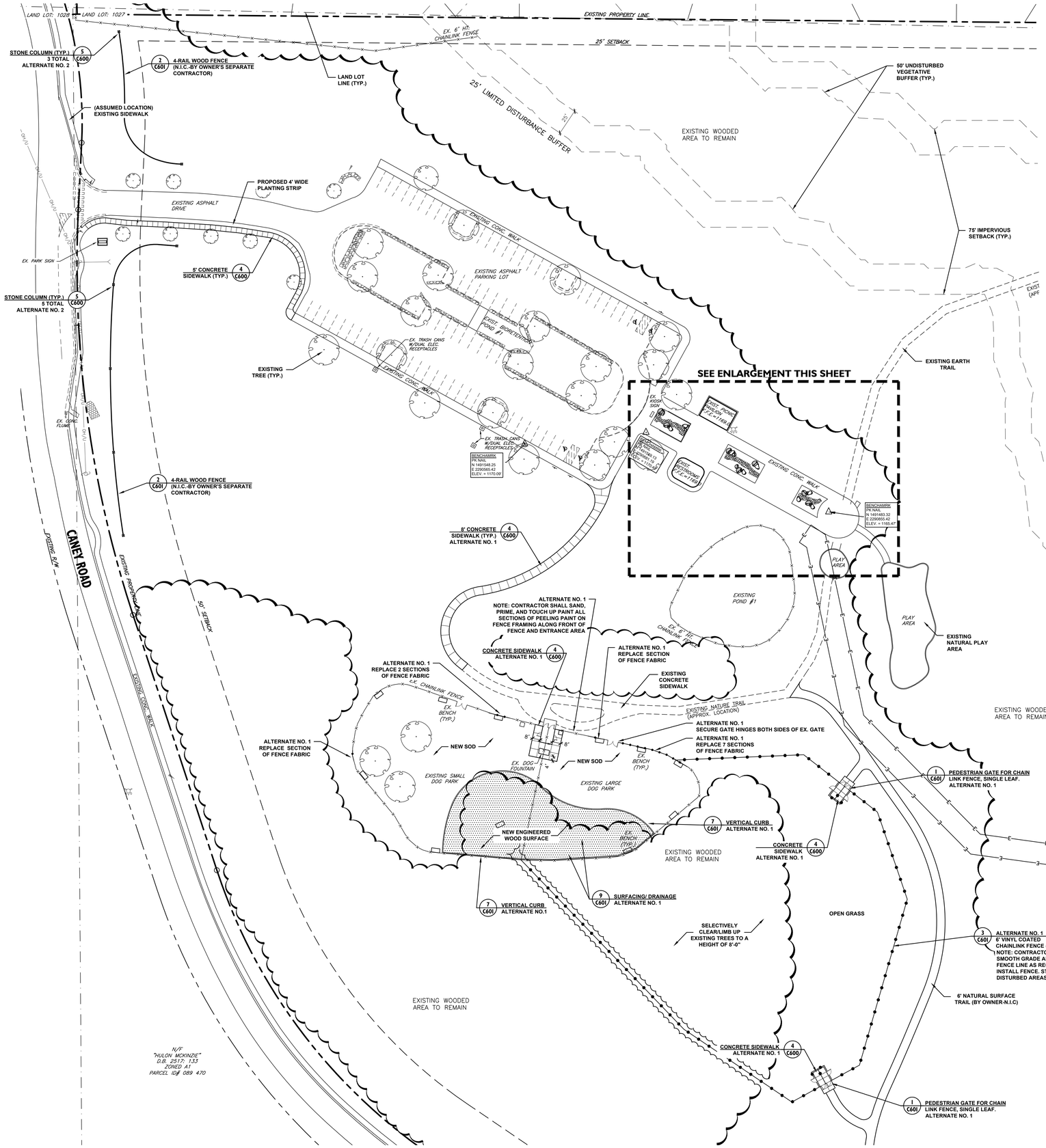
Caney Creek Preserve

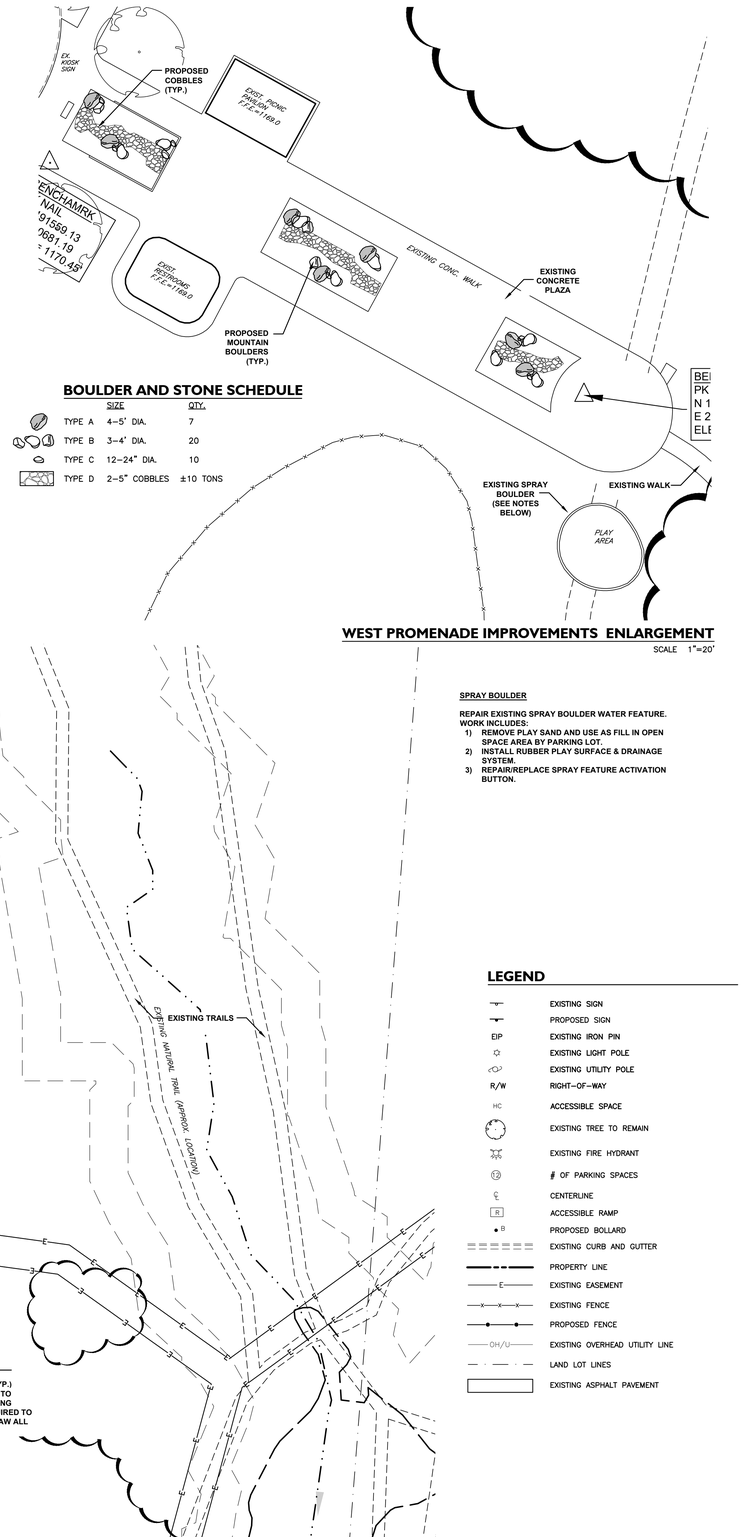
2755 Caney Road, 3055 Caney Road
Forsyth County

Project No: 17.000291
Date: 01.08.20
Revisions:
1 Per County Comments 01.31.20
2 Per County Comments 03.04.20
3 Per County Comments 04.27.20

Sheet Title:
Overall Site Plan

Sheet No:
C200





BOULDER AND STONE SCHEDULE

	SIZE	QTY.
TYPE A	4–5' DIA.	7
TYPE B	3–4' DIA.	20
TYPE C	12–24" DIA.	10
TYPE D	2–5" COBBLES	±10 TONS

WEST PROMENADE IMPROVEMENTS ENLARGEMENT

SCALE 1"=20'

SPRAY BOULDER

REPAIR EXISTING SPRAY BOULDER WATER FEATURE. WORK INCLUDES:
1) **REMOVE PLAY SAND AND USE AS FILL IN OPEN SPACE AREA BY PARKING LOT.**
2) **INSTALL RUBBER PLAY SURFACE & DRAINAGE SYSTEM.**
3) **REPAIR/REPLACE SPRAY FEATURE ACTIVATION BUTTON.**

LEGEND

	EXISTING SIGN
	PROPOSED SIGN
EIP	EXISTING IRON PIN
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
R/W	RIGHT–OF–WAY
HC	ACCESSIBLE SPACE
	EXISTING TREE TO REMAIN
	EXISTING FIRE HYDRANT
12	# OF PARKING SPACES
℄	CENTERLINE
R	ACCESSIBLE RAMP
B	PROPOSED BOLLARD
	EXISTING CURB AND GUTTER
	PROPERTY LINE
E	EXISTING EASEMENT
x x x	EXISTING FENCE
	PROPOSED FENCE
OH/U	EXISTING OVERHEAD UTILITY LINE
	LAND LOT LINES
	EXISTING ASPHALT PAVEMENT

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NORTH

40 0 20 40 80

SCALE: 1"=40'

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Caney Creek Preserve

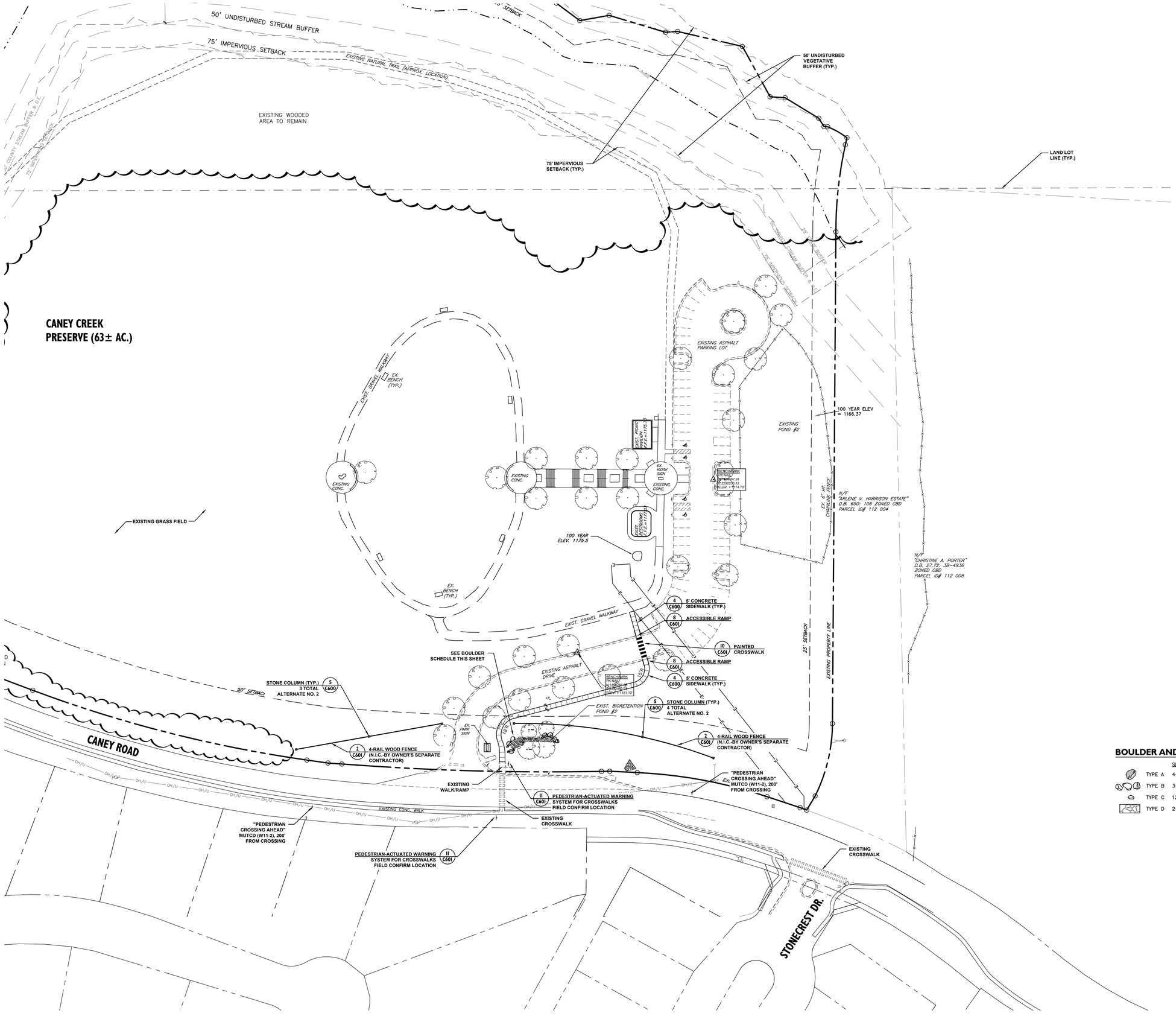
3055 Caney Road
2755 Caney Road, Forsyth County

Project No:	17.000291
Date:	01.08.20

Revisions:
1 Per County Comments 01.31.20
2 Per County Comments 03.04.20
3 Per County Comments 04.27.20

Sheet Title:
Site Plan Enlargement-West

Sheet No:
C201



BOULDER AND STONE SCHEDULE

		SIZE	QTY.
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Corp. NC License: F-1320

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Forsyth County

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Revisions:	
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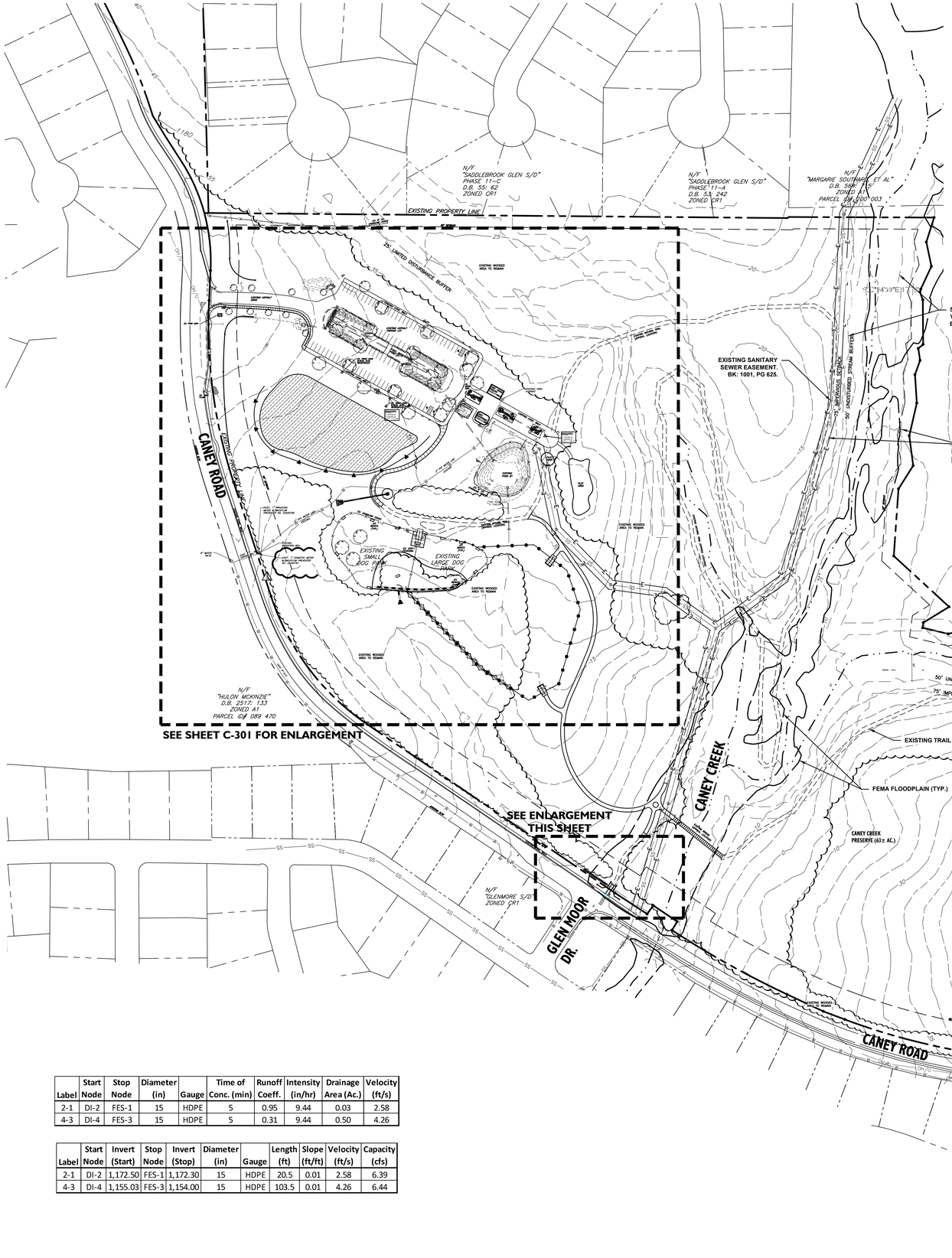
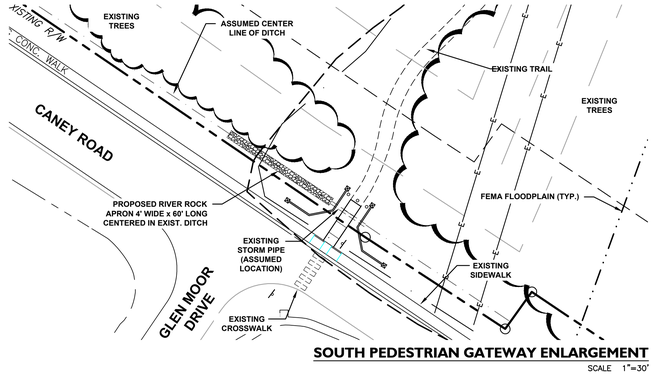
2 Per County Comments	03.04.20
3 Per County Comments	04.27.20

Sheet Title:
Site Plan Enlargement- East

Sheet No:
C202





SOUTH PEDESTRIAN GATEWAY ENLARGEMENT

SCALE 1"=30'

GRADING AND DRAINAGE NOTES

1. EARTHWORK QUANTITIES HAVE NOT BEEN ESTIMATED AND SITE AS SHOWN IS NOT ASSUMED TO REPRESENT A BALANCED CUT/FILL CONDITION.
2. CONTRACTOR SHALL PERFORM HIS OWN ESTIMATES AND SHALL PROVIDE ALL EARTHWORK NECESSARY TO ACHIEVE THE DESIGN GRADE, INCLUDING ANY OFFSITE BORROW OR SPOILS REQUIRED.
3. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL GRADED AREAS, INCLUDING PAVING, LAWN AND LANDSCAPE AREAS.
4. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
5. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK, BOTH PUBLIC AND PRIVATE. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS CONTRACT.
6. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
7. THE PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN DRIVES, PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
8. PROPOSED SPOT ELEVATIONS SHOWN REFER TO BOTTOM OF CURB UNLESS OTHERWISE NOTED ON PLAN.
9. PIPE LENGTHS SHOWN ARE THE ENGINEER'S ESTIMATE USED TO COMPUTE PIPE SLOPES AND INVERTS AND SHALL NOT BE CONSTRUED BY THE CONTRACTOR TO REPRESENT THE ACTUAL QUANTITY OF PIPE REQUIRED.
10. CROSS SLOPE OF SIDEWALKS SHALL BE 2% (MAX).
11. SLOPES SHALL BE GRADED NO STEEPER THAN 3:1
12. NO DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
13. NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.
14. BRUSH, VINES AND SMALL TREES (<8 IN. DIA., OR AS SMALL AS 2 IN. CALIPER) MAY BE HAND CLEARED ONLY CUT FLUSH WITH GROUND SURFACE. EXISTING TREES MAY BE LIMBED UP 6 FEET (AT LEAST 2/3 OF THE BRANCHES SHOULD BE LEFT) TO IMPROVE VISIBILITY.
15. EXPOSED TREE ROOTS MUST BE CLEANLY CUT WITH A SHARP PRUNING TOOL; BACKFILL ASAP TO MINIMIZE EXPOSURE TO THE AIR.
16. PIPE LENGTHS SHOWN ON CULVERTS INCLUDE FLARED END SECTIONS.
17. IN ORDER TO ENSURE ADEQUATE DRAINAGE, FLOW LINES IN GUTTERS SHALL BE 0.50% MINIMUM.

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

Label	Start Node	Stop Node	Diameter (in)	Gauge	Time of Conc. (min)	Runoff Coeff.	Intensity (in/hr)	Drainage Area (Ac.)	Velocity (ft/s)
2-1	DI-2	FES-1	15	HDPE	5	0.95	9.44	0.03	2.58
4-3	DI-4	FES-3	15	HDPE	5	0.31	9.44	0.50	4.26

Label	Start Node	Invert (Start)	Stop Node	Invert (Stop)	Diameter (in)	Gauge	Length (ft)	Slope (ft/ft)	Velocity (ft/s)	Capacity (cfs)
2-1	DI-2	1,172.50	FES-1	1,172.30	15	HDPE	20.5	0.01	2.58	6.39
4-3	DI-4	1,155.03	FES-3	1,154.00	15	HDPE	103.5	0.01	4.26	6.44

NORTH

100 0 50 100 200

SCALE: 1"=100'

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Charlotte, NC 28208
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P 704.521.9880

Seals:

GEORGIA REGISTERED No. 001849 PROFESSIONAL LANDSCAPE ARCHITECT JANET A. ASHBAUGH
4-27-2020

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

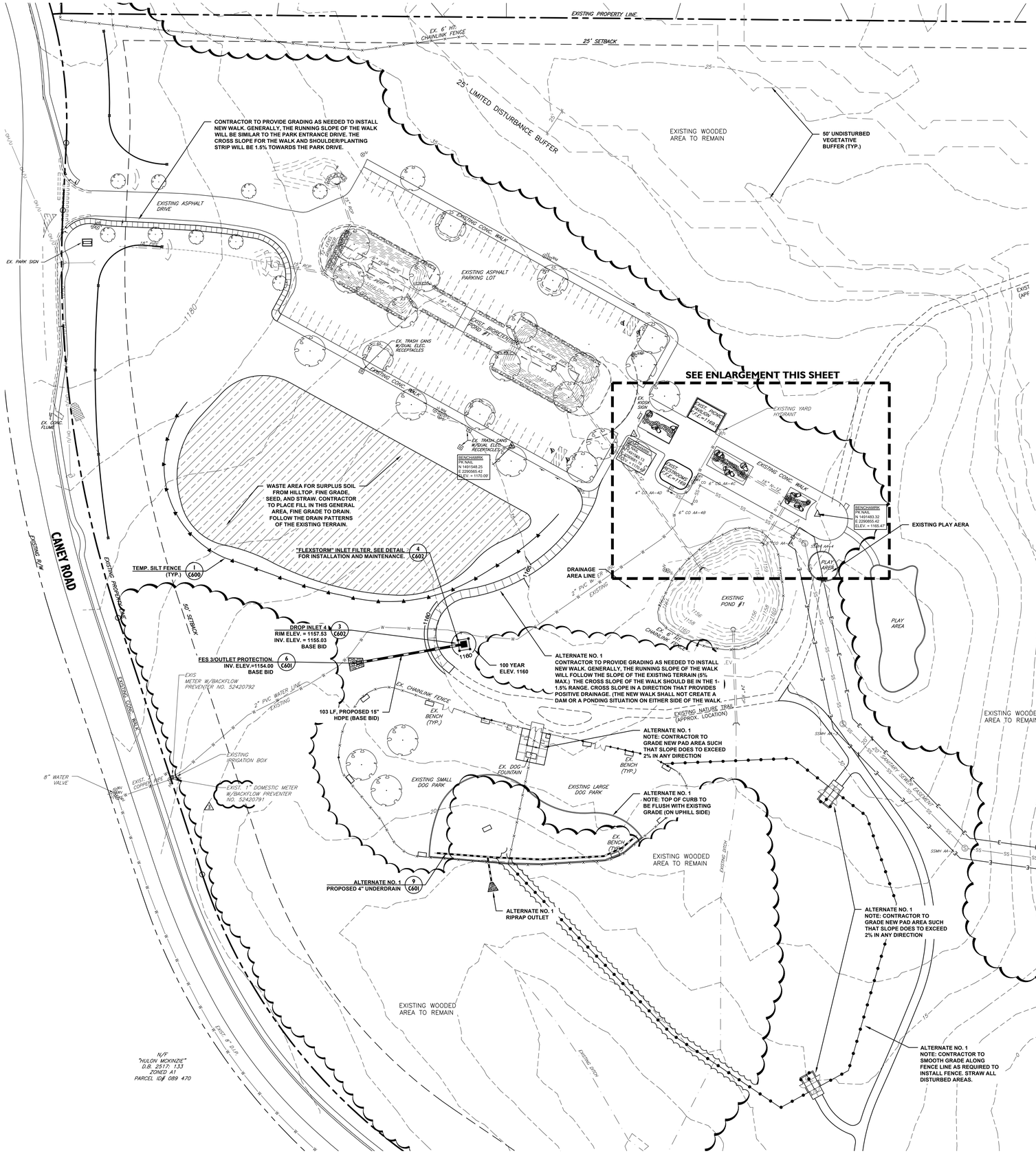
Project No: 17.000291
Date: 01.08.20

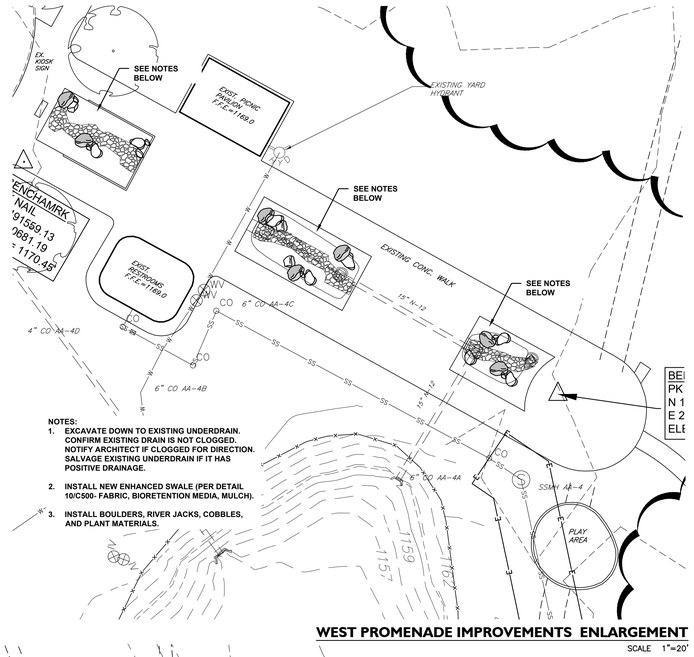
Revisions:

1 Per County Comments 01.31.20
2 Per County Comments 03.04.20
3 Per County Comments 04.27.20

Sheet Title:
Overall Grading Plan

Sheet No:
C300





WEST PROMENADE IMPROVEMENTS ENLARGEMENT

SCALE 1"=20'

DISTURBED AREA = 1.0 AC

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

LEGEND

- EXISTING SIGN
- EIP EXISTING IRON PIN
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- R/W RIGHT-OF-WAY
- EXISTING FIRE HYDRANT
- WV EXISTING WATER VALVE
- WM EXISTING WATER METER
- EXISTING SEWER MANHOLE
- CO EXISTING CLEANOUT
- DI EXISTING DRAINAGE STRUCTURE
- PROPOSED DRAINAGE STRUCTURE
- GV EXISTING GAS VALVE
- GM EXISTING GAS METER
- EXISTING CURB AND GUTTER
- PROPERTY LINE
- EXISTING FENCE
- UGE EXISTING UNDERGROUND ELECTRIC LINE
- OH/U EXISTING OVERHEAD ELECTRIC LINE
- T EXISTING UNDERGROUND TELEPHONE LINE
- SS EXISTING SANITARY SEWER LINE
- W EXISTING WATER LINE
- XXX EXISTING CONTOUR LINE
- XXX PROPOSED CONTOUR LINE
- EXISTING STORM DRAINAGE PIPE
- PROPOSED STORM DRAINAGE PIPE
- G EXISTING GAS LINE
- D EXISTING STORM MANHOLE
- E EXISTING EASEMENT
- EXISTING TREELINE
- TEMPORARY INLET PROTECTION

NORTH

40 0 20 40 80

SCALE: 1"=40'

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Seals:

GEORGIA REGISTERED No. 001849 PROFESSIONAL LANDSCAPE ARCHITECT JANET A. ASHBAUGH 4-27-2020

Corp. NC License: F-1320

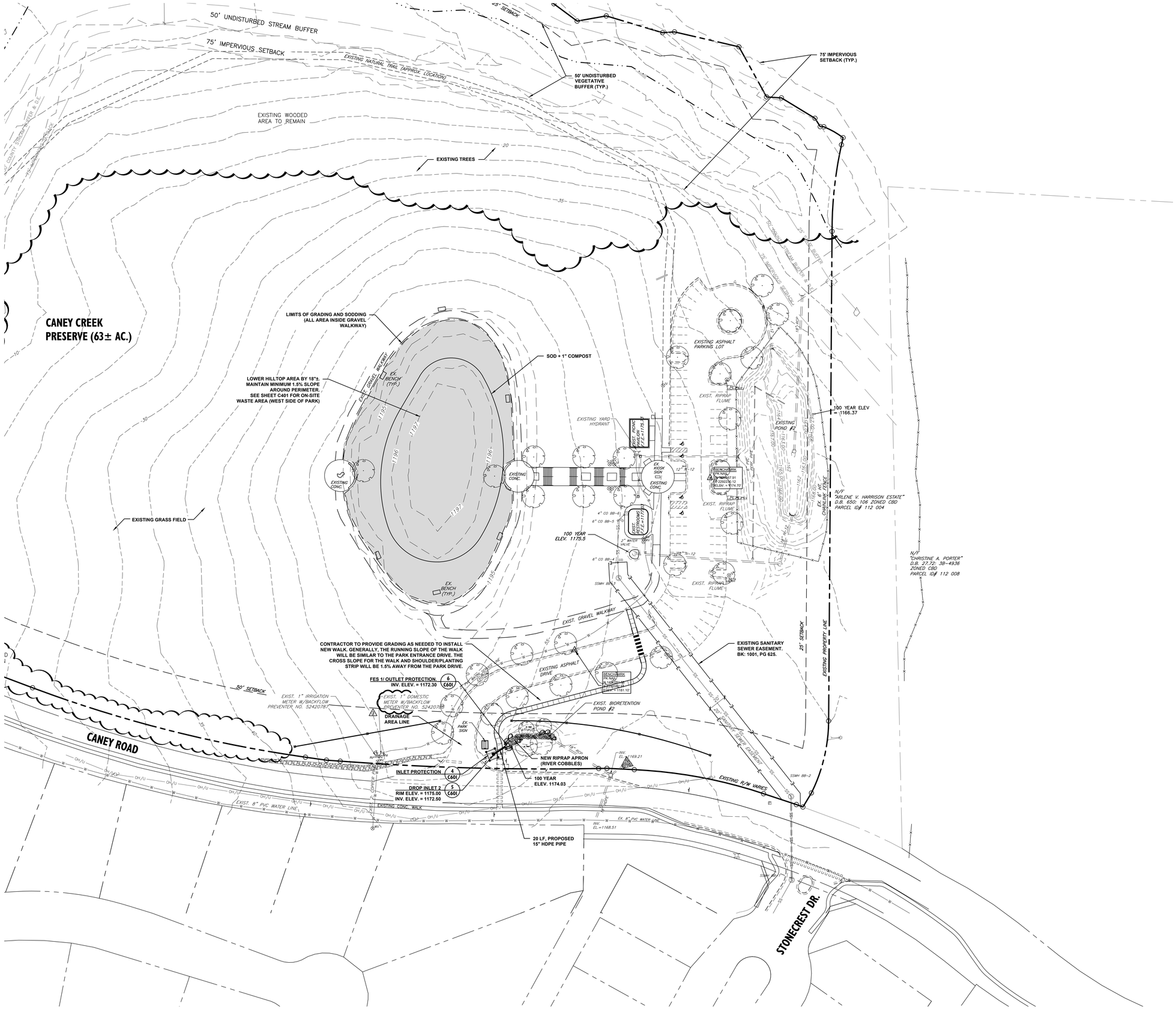
Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

Project No: 17.000291
Date: 01.08.20
Revisions:
1 Per County Comments 01.31.20
2 Per County Comments 03.04.20
3 Per County Comments 04.27.20

Sheet Title:
Grading Plan Enlargement-West

Sheet No:
C301



NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

DISTURBED AREA = 1.00 AC

LEGEND

- EXISTING SIGN
- EIP — EXISTING IRON PIN
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- R/W — RIGHT-OF-WAY
- EXISTING FIRE HYDRANT
- WV — EXISTING WATER VALVE
- WM — EXISTING WATER METER
- S — EXISTING SEWER MANHOLE
- CO — EXISTING CLEANOUT
- DI I — EXISTING DRAINAGE STRUCTURE
- PROPOSED DRAINAGE STRUCTURE
- GV — EXISTING GAS VALVE
- GM — EXISTING GAS METER
- EXISTING CURB AND GUTTER
- PROPERTY LINE
- x x x — EXISTING FENCE
- UGE — EXISTING UNDERGROUND ELECTRIC LINE
- OH/U — EXISTING OVERHEAD ELECTRIC LINE
- T — EXISTING UNDERGROUND TELEPHONE LINE
- SS — EXISTING SANITARY SEWER LINE
- W — EXISTING WATER LINE
- XXX — EXISTING CONTOUR LINE
- XXX — PROPOSED CONTOUR LINE
- EXISTING STORM DRAINAGE PIPE
- PROPOSED STORM DRAINAGE PIPE
- G — EXISTING GAS LINE
- D — EXISTING STORM MANHOLE
- E — EXISTING EASEMENT
- EXISTING TREELINE
- TEMPORARY INLET PROTECTION

NORTH

40 0 20 40 80

SCALE: 1"=40'

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Seals:

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4-27-2020

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

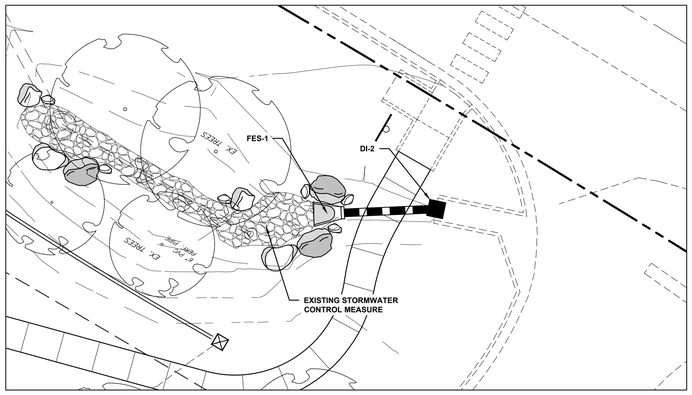
Project No:	17.000291
Date:	01.08.20

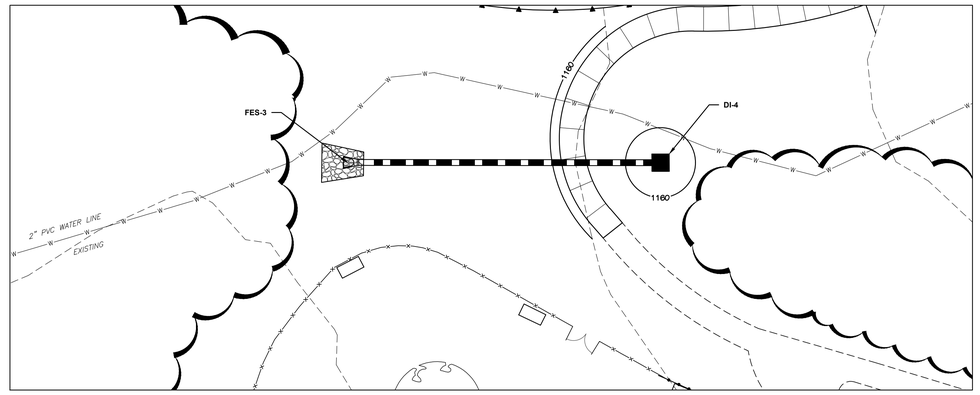
Revisions:

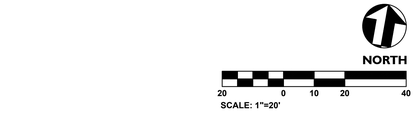
1	Per County Comments	01.31.20
2	Per County Comments	03.04.20
3	Per County Comments	04.27.20

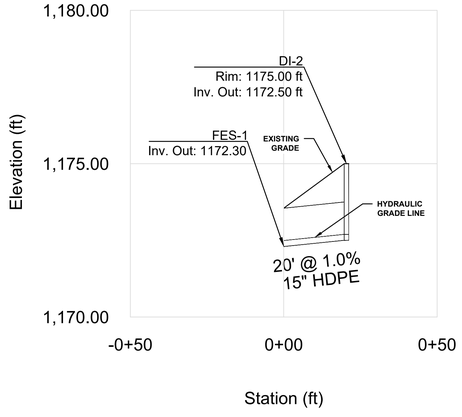
Sheet Title:
Grading Plan Enlargement- East

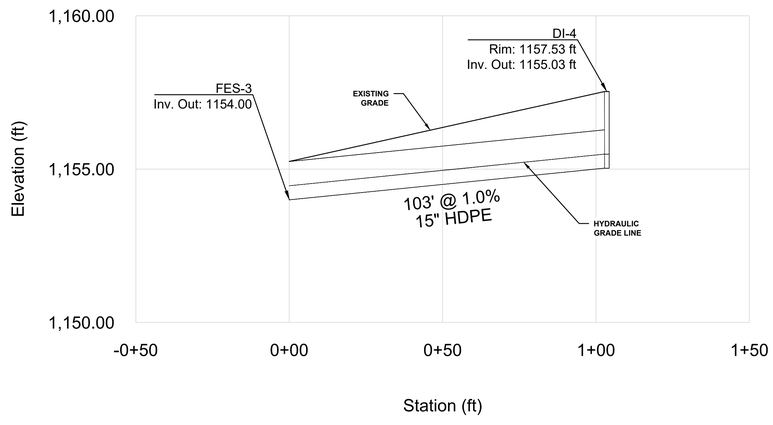
Sheet No:
C302











NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

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Seals:

GEORGIA REGISTERED No. 001849 PROFESSIONAL LANDSCAPE ARCHITECT JEANETTE A. ASHBAUGH
4-27-2020

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 305
Forsyth County

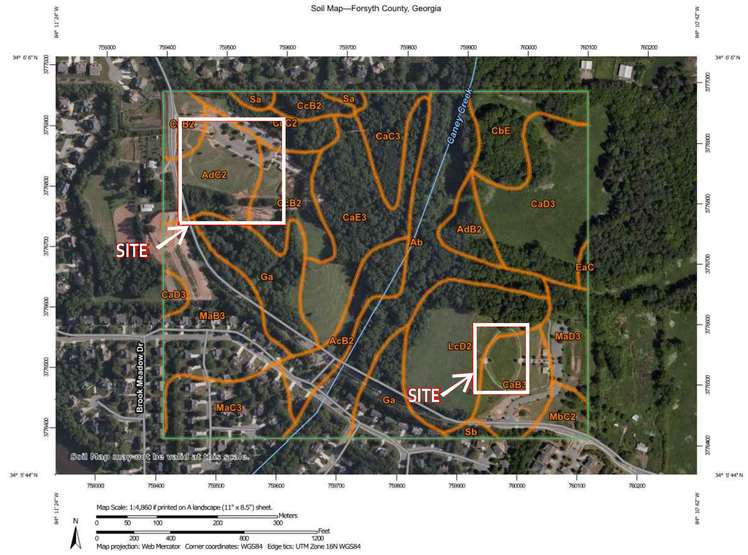
Project No: 17.000291
Date: 01.08.20

Revisions:

1	Per County Comments	01.31.20
2	Per County Comments	03.04.20
3	Per County Comments	04.27.20

Sheet Title:
Pipe Plan & Profiles

Sheet No:
C303



Notify Forsyth County Inspector 24 hours before the beginning phase construction. (770) 781-2165

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p 704.521.9880

Seals:

GEORGIA REGISTERED No. 19498 PROFESSIONAL ENGINEER WILLIAM R. TOOLE III

Level II Certification 17040
EXPIRES 09/23/21

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

Project No:	17.000291
Date:	01.08.20

Revisions:

1 Per County Comments (ENTIRE SHEET ADDED) 02.13.20

2 Add note for 24 hour notification 03/05/20

Sheet Title:
ESCP Plan - INITIAL PHASE

Sheet No:
C304

AREA #1
STABILIZATION ONLY

AREA #1: SOD BED PREPARATION TO BE PROTECTED FROM PERIMETER EROSION WITH FILTER SOCKS OR HAY BALES

AREA #2
GRADING, STORM DRAINAGE, STABILIZATION ACTIVITIES ONLY.

AREA #3
STABILIZATION ONLY.
NO GRADING.

AREA #3:SOD BED PREPARATION TO BE PROTECTED FROM PERIMETER EROSION WITH FILTER SOCKS OR HAY BALES AS REQUIRED

AREA #4
SIDEWALK CONSTRUCTION AT GRADE ONLY. NO GRADING

AREA #5
GRADING, STABILIZATION ACTIVITIES ONLY.

AREA #6
SIDEWALK, STORM DRAINAGE, STABILIZATION ONLY. NO GRADING

SAMPLE POINT "A"

SAMPLE POINT "B"

Construction Outlet #2
Lat - 34.1005
Long - 84.1875

Construction Outlet #1
Lat - 34.0969
Long - 84.1816

Sd1–NS 28"
Sd1–S 28"
Sd1 SOCK
Sd2
Ds1
Ds2
Du
Co
St VELOCITY=4.26fps
St VELOCITY=2.54fps

CANEY ROAD
GLEN MOOR DR.
CANEY CREEK
CANEY CREEK PRESERVE (63± AC.)
BROOKWOOD QUARTERS (MIXED USE DEVELOPMENT)

EXISTING WOODED AREA TO REMAIN

25' STATE STREAM BUFFER
50' UNDISTURBED STREAM BUFFER
75' IMPERVIOUS SETBACK

Notify Forsyth County Inspector 24 hours before the beginning phase construction. (770) 781-2165

NORTH
70 0 35 70 140
SCALE: 1"=70'

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Charlotte, NC 28208
www.benesch.com
p 704.521.9880

Seals:

GEORGIA REGISTERED No. 34466 PROFESSIONAL ENGINEER WILLIAM R. TOOLE

Level II Certification 17040
EXPIRES 09/23/21

Corp. NC License: F-1320

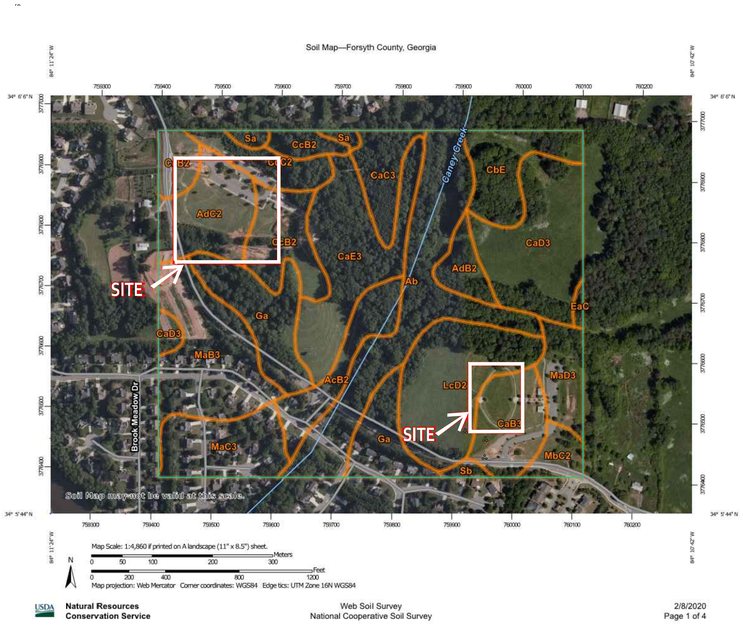
Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

Project No: 17.000291
Date: 01.08.20
Revisions:
1 Per County Comments (ENTIRE SHEET ADDED) 02.13.20
2 Add note for 24 hour notification 03/05/20

Sheet Title:
ESCP PLAN - INTERMEDIATE PHASE

Sheet No:
C305



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2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
p 704.521.9880

Seals:

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 14468
WILLIAM R. TOOLE
Level II Certification 17040
EXPIRES 09/23/21

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

Notify Forsyth County Inspector 24 hours before the beginning phase construction. (770) 781-2165

Project No:	17.000291
Date:	01.08.20
Revisions:	
1 Per County Comments (ENTIRE SHEET ADDED)	02.13.20
2 Add note for 24 hour notification	03/05/20

Sheet Title:
ESCP PLAN - FINAL PHASE

Sheet No:
C306

GSWCC AND NPDES NOTES:

PROJECT NAME: **CANEY CREEK PARK IMPROVEMENTS**
ADDRESS: **2755 Caney Road**
CITY / COUNTY: **CUMMING, GEORGIA** / FORSYTH CO. , ZIP CODE: **30041**
DATE ON PLANS: **08/16/19**

1. GAR 100001 STAND ALONE [X] GAR 100002 COMMON DEVELOPMENTS [ ] GAR 100003 INFRASTRUCTURE [ ]
2. LEVEL II CERTIFICATION: NAME: **WILLIAM TOOLE** NO#: **0000017040** EXP. DATE: **09-23-2021**
3. 24 HOUR CONTACT: NAME: **JIM PRYOR** PHONE: **478-445-2544**
4. PRIMARY PERMITTEE: NAME: **JIM PRYOR - FORSYTH COUNTY PARKS & RECREATION**
   ADDRESS: **P O BOX 2417**
   CUMMING, GEORGIA ZIP CODE: **30028**
   PHONE: **770-205-4679** EMAIL: **TJPryor@forsythco.com**
5. TOTAL ACRES: **61.97+/- ACRES** TOTAL ACRES DISTURBED: **2.0 ACRES**
6.(A) TAX MAP NUMBER: **112 264**
6.(B) CRITICAL AREAS: YES [ ] NO [X]
IF YES, DESCRIBE:
7. VICINITY MAP: SHEET **COVER** ON PLANS.
8. GRAPHIC SCALE: AS NOTED ON INDIVIDUAL SHEETS.
9. EXISTING AND PROPOSED CONTOUR LINES AT REQUIRED INTERVALS: YES [X] NO [ ]
10. BOUNDARY LINE SURVEY: SHEET(S) **ALL** OF **N/A** ON PLANS.
11. DELINEATION OF DRAINAGE BASINS ON PROJECT SITE: SHEET(S) **REPORT**
12.(A) DELINEATION OF ON SITE WETLANDS: YES [ ] SHEET(S) **NONE**
ON-SITE WETLANDS: NO [X]
12.(B) DELINEATION OF STATE WATERS ON ARE WITHIN 200 FT. OF PROJECT SITE:
NO [ ] YES [X] SHEET(S) **C304-C306**
STATE WATERS THAT ARE ON OR WITHIN 200 FT. OF PROJECT SITE:
13. DELINEATION OF 25 FOOT OR 50 FOOT UNDISTURBED BUFFER:
NOT APPLICABLE [ ] YES [X] SHEET(S) **C304-C306**
14. DELINEATE ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMEDIATE STREAMS:
SHEET(S) **C304** ON PLANS.
15. STORM DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION:
STORM DRAIN PIPE MUST SHOW Q , V , L , W , D , AND SIZE.
SHEET(S) **N/A** ON PLANS.
16. SOIL SERIES FOR THE PROJECT SITE: (PROVIDE MAP)
SHEET **C304-C306** ON PLANS.
17. IDENTIFY PROJECT RECEIVING STREAM: **CANEY CREEK**
18. IMPAIRED STREAM: YES [ ] NO [X]
19. TMDL IMPLEMENTATION PLAN FOR SEDIMENT: YES [ ] NO [X]
20. HYDROLOGY STUDY FOR PRE AND POST DEVELOPED CONDITIONS: YES [X] NO [ ]
21. INITIAL DATE ON PLANS AND THE DATE(S) OF ANY REVISIONS AND WHO REQUESTED THEM: YES [X] NO [ ]
22. LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION: YES [X] NO [ ] SHEET(S) C4.3, C4.3 ON PLANS.
23. LIMITS OF DISTURBANCE OVER 50 ACRES: YES [ ] NO [X]
24. SEDIMENT STORAGE PER CHECKLIST / PERMIT REQUIREMENTS:
SHEET **C4.3, C5.3** ON PLANS.
25. USE OF ALTERNATIVE BMP'S: YES [ ] NO [X] IF YES, ALT. BMP CALC SHEET _____ OF _____
26. BEST MANAGEMENT PRACTICES TO REDUCE OFFSITE VEHICLE TRACKING (Co) AND THE GENERATION OF DUST (Du): YES [X] NO [ ]
27. OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHOULD BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE PLAN SHALL INCLUDE THE BEST MANAGEMENT PRACTICE TO BE IMPLEMENTED AT THE SITE OR CONSTRUCTION ACTIVITY. A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. REFER TO SHEET NO's. C4.3 AND _____ FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREETS ADJACENT TO THE SITE SHALL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

CRUSHED STONE CONSTRUCTION EXIT:

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS & DRIVES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES OFFSITE ONTO ADJACENT ROADS AND DRIVES, OR INTO STORM DRAINS, MUST BE REMOVED IMMEDIATELY.

DUST CONTROL (DU) NOTES:

* SPRAY-ON ADHESIVES: THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

* TILLAGE: THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

* IRRIGATION: THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

* BARRIERS: SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLE TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

DUST CONTROL (DU) NOTES (CONT'D.):

* CALCIUM CHLORIDE: APPLY AT A RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

REFER ALSO TO SHEET NUMBER(S) C3.1 THE "DUST CONTROL ON DISTURBED AREAS (Du)" GSWCC DETAIL AND SHEET NUMBER(S) C4.3 THE "CONSTRUCTION EXIT (Co)" GSWCC DETAIL.

TOOLS :

28. BMPs FOR CONCRETE WASHDOWN OF THE FOLLOWING:

ALL CONCRETE WASH WATER THAT RESULTS FROM THE WASHDOWN OF TOOLS USED FOR CONCRETE WORK SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA. DETAIL ON SHEET(S) C3.1

CONCRETE MIXER CHUTES :
ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE MIXER CHUTES SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

HOPPERS :
ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE HOPPERS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

REAR OF VEHICLES :
ALL CONCRETE AND WASH WATER THAT RESULTS FROM THE RINSING OFF OF THE REAR OF CONCRETE TRUCKS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

WASH OUT OR DISCHARGE OF ANY SURPLUS CONCRETE ON THE GROUND OR DRUM WASHOUT FROM CONCRETE TRUCKS AT THE CONSTRUCTION SITE IS PROHIBITED.

29. BMP's FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:

SPILL CLEANUP AND CONTROL PRACTICES:

- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO ALL ON-SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL STATE, AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (I.E. LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24-HOURS AT 1-(800)-424-8802.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24-HOURS AT 1-(800)-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION (EPD) WILL BE CONTACTED WITHIN 24-HOURS. GA. EPD (404)-656-4863 OR (800)-241-4113 AND THE NATIONAL RESPONSE CENTER AT (800)-424-8802
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH A CASE, THE CONTRACTOR WILL NEED A SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

30. FOR PHASED EROSION AND SEDIMENT CONTROL PLANS (I.E. INITIAL PHASE INTERMEDIATE PHASE, AND FINAL PHASE) SHOWING THE LOCATION OF BEST MANAGEMENT PRACTICES (BMPs) THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA , CURRENT EDITION, USING UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND, REFER TO SHEET NUMBER(S) **GAR 100001** .

31. DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY:

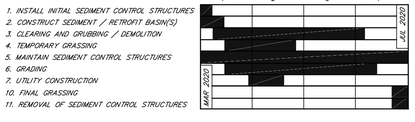
THIS PROJECT IS A PRIMARILY LANSCAPE AND BEAUTIFICATION PROJECT, WITH SOME MINOR EXPANSION OF SIDEWALKS AND SOME GRADING TO REDUCE EROSION ON-SITE. CONSTRUCTION WILL CONSIST OF DEMOLITION, CLEARING AND GRUBBING SMALL PORTIONS OF OF THE SITE, GRADING, STORM DRAINAGE, LANDSCAPING AND CONSTRUCTION OF NEW SIDEWALK . STORMWATER IS MANAGED ONSITE INFRASTRUCTURE WITHIN THIS SITE. STORMWATER DISCHARGE WILL BE MANAGED BY ONSITE DETENTION SYSTEMS.

32. DESCRIPTION OF THE APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH PHASE OF EROSION AND SEDIMENT CONTROL:

INITIAL PHASE:
INSTALLATION OF PERIMETER CONTROL BMP's (SILT FENCE (Sd1-C) AT THE LIMITS OF DISTURBANCE); CONSTRUCTION EXITS (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1)

INTERMEDIATE PHASE:
MAINTAIN SILT FENCE TYPE-"C" (Sd1-C) FOR PERIMETER CONTROL; MAINTAIN CONSTRUCTION EXITS (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); AND DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2).

ANTICIPATED CONSTRUCTION ACTIVITY SCHEDULE:



GSWCC AND NPDES NOTES (CONT'D.):

FINAL PHASE:
MAINTAIN INLET SEDIMENT TRAPS (Sd2-F & Sd2-P) AND FILTER RING (Fr) AT EXISTING INLETS; MAINTAIN SILT FENCE TYPE-"C" (Sd1-C) FOR PERIMETER CONTROL; DISTURBED AREA STABILIZATION WITH SOD (Ds4). REMOVAL OF ALL BMP DEVICES ONCE THE SITE IS FULLY STABILIZED.

33. CONSTRUCTION SCHEDULE:
CHART ON SHEET: **C3.1**

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

PAINTS/FINISHES/SOLVENTS :

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

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 :

A. NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH PROPER WASTE DISPOSAL PROCEDURES.

B. PLASTING SEETING, TEMPORARY ROOF STRUCTURES OR OTHER APPROVED METHODS SHALL BE USED TO COVER EXPOSED BUILDING MATERIALS BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS TO MINIMUZE EXPOSRE TO STORMWATER.

35. DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED:

MEASURES INCLUDE A COMBINATION OF VEGETATED SWALES AND NATURAL DEPRESSIONS FOR FLOW ATTENUATION, LANDSCAPED AND TURF AREAS, AND IMPERVIOUS SURFACES THAT WILL REDUCE SOIL AND SEDIMENT RUNOFF.

THESE MEASURES WILL ENSURE THAT THE NATURAL, PHYSICAL, AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS OF THE WATER COURSE ARE MAINTAINED AND PROTECTED.

36. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&PC PLAN AS STATED ON PAGE 14 OF THE PERMIT:

"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."

WILLIAM TOOLE **0000017040** **09-23-2021**
GSWCC LEVEL II DESIGN PROFESSIONAL GSWCC LEVEL II CERTIFICATION NO. EXP. DATE

37. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BMP's AND SAMPLING TO MEET PERMIT REQUIREMENTS AS STATED ON PAGE 14 OF THE PERMIT:

"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 AN SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA 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** ."

WILLIAM TOOLE **0000017040** **09-23-2021**
GSWCC LEVEL II DESIGN PROFESSIONAL GSWCC LEVEL II CERTIFICATION NO. EXP. DATE

38. CERTIFICATION STATEMENT AND SIGNATURE OF THE PERMITTEE OR DULY AUTHORIZED REPRESENTATIVE AS STATED IN SECTION V.G.2.d OF THE STATE GENERAL PERMIT:

STANDARD PERMIT CONDITIONS SIGNATORY REQUIREMENTS 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 CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON 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."

Forsyth County — 770-205-4679
PRIMARY PERMITTEE — PRIMARY PERMITTEE CONTACT PHONE NUMBER
Tim Pryor Director of Parks & Recreation — 2-11-2020
PRIMARY PERMITTEE CONTACT — PRIMARY PERMITTEE CONTACT SIGNATURE — DATE

NOTE:
THESE ARE STANDARD NOTES PROVIDED BY THE LOCAL ISSUING AUTHORITY AND MODIFIED BY THE DESIGN PROFESSIONAL.

GSWCC AND NPDES NOTES (CONT'D.):

39. ESTIMATE OF THE RUNOFF COEFFICIENT OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: EAST PRE **50** EAST POST **50** WEST PRE **65** WEST POST **65**

40. 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

NO WORK ASSOCIATED WITH THIS PROJECT PROPOSES ANY ENCROACHMENT INTO 25-FOOT UNDISTURBED BUFFERS OF STATE WATERS OR 50-FOOT UNDISTURBED BUFFERS ALONG DESIGNATED TROUT STREAMS; THEREFORE, NO SPECIAL VARIANCES OR PERMITS ARE REQUIRED.

41. INDICATION THAT THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION:

WITHIN 7 DAYS OF INSTALLATION OF INITIAL PHASE EROSION CONTROL MEASURES, THE DESIGN PROFESSIONAL, OR AN AUTHORIZED AGENT DESIGNATED BY THE DESIGN PROFESSIONAL, WILL PERFORM AN INSPECTION OF THE EROSION AND SEDIMENTATION CONTROL BMPs THAT HAVE BEEN INSTALLED AND WILL SUBMIT A SIGNED COPY OF A REPORT OF THEIR FINDINGS TO THE PRIMARY OPERATOR, WHICH SHALL BE KEPT ON FILE WITH THE NOTICE OF INTENT (NOI) AND ALL OTHER REQUIRED PAPER WORK.

DATE OF INSPECTION:
"I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLANS ON THE DATE OF INSPECTION."

WILLIAM TOOLE **0000017040** **09-23-2021**
GSWCC LEVEL II DESIGN PROFESSIONAL GSWCC LEVEL II CERTIFICATION NO. EXP. DATE

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

(PROVIDE THIS CERTIFICATION IN LETTER FORMAT FOR RECORDS)

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

42. ANY AMENDMENTS/REVISIONS TO THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS (ES&PC PLANS), WHICH HAVE A SIGNIFICANT EFFECT ON BMP's WITH A HYDRAULIC COMPONENT, MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

43. WASTE MATERIALS SHALL NOT BE DISPOSED OF OR DISCHARGED INTO STORM WATER INLETS OR TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DISPOSED OF IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY, AND TRASH WILL BE HAULED AS REQUIRE BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

44. DOCUMENTATION THAT THE ES&PC PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED:

HAZARDOUS WASTES:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS's) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTER-MEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON-SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

45. DOCUMENTATION THAT THE ES&PC PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED (CONT'D.):

SANITARY WASTES:
ALL PERMITTEES SHALL ENSURE AND DEMONSTRATE THAT THEIR PLAN IS IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL WASTE WATER DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS.
A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK PER A LICENSED PORTABLE FACILITY PROVIDER IN COMPLIANCE WITH LOCAL AND STATE REGULATIONS.
NOT PROVIDE FOR POST CONSTRUCTION SANITARY SEWER.

45. DOCUMENTATION THAT THE ES&PC PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL,

24-HOUR LOCAL ES&PC CONTACT:
NAME: **JIM PRYOR**
PHONE: **770-205-4679**
EMAIL: **TJPryor@forsythco.com**

811 IF YOU DIG GEORGIA... CALL US FIRST! Know what's **below.** **Call** before you dig. UTILITIES PROTECTION CENTER

Notify Forsyth County Inspector 24 hours before the beginning phase construction. (770) 781-2165
2

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, North Carolina 28208
www.benesch.com
p 704.521.9880

Seals:

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31466 WILLIAM R. POULIN

Level II Certification 17040
EXPIRES 09/23/21

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

Project No: 17.000291
Date: 01.08.20
Revisions:
1 Per County Comments (ENTIRE SHEET ADDED) 02.13.20
2 Add note for 24 hour notification 03/05/20

Sheet Title:
ESCP PLAN - NOTES 1 of 3

Sheet No:
C307

SANITARY WASTES (CONT'D.):

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP's MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, SHEET NO. **C4.4, C5.4** BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED. SANITARY SEWER WILL NOT BE PROVIDED BY MUNICIPAL AUTHORITY AT THE COMPLETION OF THIS PROJECT.

46. DETAILS ON COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE:

INSPECTIONS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.4.):

a. PERMITTEE REQUIREMENTS.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL, PROVIDED BY THE PRIMARY PERMITTEE, SHALL INSPECT:

(a.) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT;
(b.) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND,
(c.) MEASURE RAINFALL ONCE EACH 24-HOUR PERIOD AT THE SITE.

THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2) MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS OF THE END OF A STORM EVENT THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST):

(a.) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION;
(b.) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND,
(c.) STRUCTURAL CONTROL MEASURES.

EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(4) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

47. DETAILS ON COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS:

SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO. GAR 100001, SEC. IV.D.6.d.):

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:

(a). THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION; OR,
(b). THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

GSWCC AND NPDES NOTES (CONT'D.):

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

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

(a). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * (MONDAY THROUGH FRIDAY, 8:00 A.M. TO 5:00 P.M., AND SATURDAY, 8:00 A.M. TO 5:00 P.M., EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;

(b). IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 90-DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT STORM EVENT THAT REACHES 0.5 INCH DURING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.E.):

48. THE APPLICABLE PERMITTEE'S ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

(1). THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

(2). ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

(a). THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
(b). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
(c). THE DATE(S) ANALYSES WERE PERFORMED;
(d). THE TIME(S) ANALYSES WERE INITIATED;
(e). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
(f). REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND,
(g). THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
(h). RESULTS WHICH EXCEED 1,000 NTU SHALL BE REPORTED AS "EXCEEDS 1,000 NTU."

49. COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF THE PERMIT:

(1). THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

(a). A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
(b). A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
(c). THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
(d). A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
(e). A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT;
(f). A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND,
(g). DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

GSWCC AND NPDES NOTES (CONT'D.):

50. COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF THE PERMIT (CONT'D.):

(2). COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THE NPDES PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

51. DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION:

SAMPLE TYPE (NPDES GENERAL PERMIT NO GAR100001, SEC. IV.D.6.b.):

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001"; AND, GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. ANALYTICAL METHODS USED FOR THE COLLECTION AND ANALYSIS OF SAMPLES FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL USE, AT A MINIMUM, THE GUIDELINES SET FORTH IN PART IV.D.6.a. AND PART IV.D.6.b. OF THIS PERMIT.

SAMPLING POINTS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.c.):

FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.c.(2) OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE RECEIVING WATER(S) OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE MINIMUM GUIDELINES SET FORTH IN PART IV.D.6.c.(1). OF THIS PERMIT. RECEIVING WATER(S) MUST HAVE AN UPSTREAM AND A DOWNSTREAM SAMPLE LOCATION.

52. "APPENDIX B" RATIONALE FOR OUTFALL SAMPLING POINTS:

SAMPLING REQUIREMENTS (NPDES GENERAL PERMIT NO GAR100001, SEC. IV.D.6.a.(3).):

WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OF THE OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES).

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION(S). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES (BMP's) HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE THAT WAS SELECTED FROM "APPENDIX B" IN THE NPDES GENERAL PERMIT NO. GAR 100001.

THE SELECTED NTU VALUE OF **75** IS BASED UPON THE CONSTRUCTION SITE ACREAGE OF **2.0** ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF APPROXIMATELY **0.003** SQUARE MILES, AND THE RECEIVING WATERS,

STORMWATER RUNOFF LEAVES THE PROJECT SITE THROUGH THE FOLLOWING:

EXISTING SITE DRAINS TO A PIPE NETWORK PREVIOUSLY CONSTRUCTED. RUNNOFF WILL BE MANAGED BY THE EXISTING INFRASTRUCTURE.

NOTE:
THESE ARE STANDARD NOTES PROVIDED BY THE LOCAL ISSUING AUTHORITY AND MODIFIED BY THE DESIGN PROFESSIONAL.

GSWCC AND NPDES GENERAL ADDED NOTES (CONT'D):

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR100001, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."

GSWCC LEVEL II DESIGN PROFESSIONAL | GSWCC LEVEL II NO. | EXP. DATE

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31466 WILLIAM R. TODD

Level II Certification 17040
EXPIRES 09/23/21

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

Project No: 17.000291
Date: 01.08.20
Revisions:
1 Per County Comments (ENTIRE SHEET ADDED) 02.13.20
2 Add note for 24 hour notification 03/05/20

Sheet Title:
ESCP PLAN - NOTES 2 of 3

Sheet No:
C308

GENERAL EROSION & SEDIMENTATION CONTROL NOTES:

1. ALL DISTURBED AREAS SHALL HAVE EROSION CONTROL PROVIDED IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA , CURRENT EDITION.

2. ALL EROSION CONTROL MEASURES SHALL COMPLY WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL FOR EROSION AND SEDIMENT CONTROL IN THE STATE OF GEORGIA , CURRENT EDITION.

3. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

4. THE NOTATION XXX AS SHOWN ON THE EROSION CONTROL PLAN SHEET(S) AND ON THE EROSION CONTROL DETAIL SHEET FOR THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES, REFERS TO THE GEORGIA UNIFORM CODING SYSTEM AS DETAILED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA , CURRENT EDITION.

5. GENERAL STATEMENT OF DESIGNED EROSION CONTROL SYSTEM:

   (a). NO SURFACE WATER FLOWS FROM DISTURBED AREA TO BE ALLOWED INTO THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED BY AN EFFECTIVE SEDIMENT ENTRAPMENT DEVICE.

   (b). SEDIMENT ENTRAPMENT DEVICES ARE TO BE MAINTAINED AT ALL POINTS WHERE SURFACE FLOWS FROM DISTURBED AREAS CAN LEAVE THE SITE. FLOWS ARE TO BE DIRECTED TO ENTRAPMENT DEVICES THROUGHOUT CONSTRUCTION ACTIVITIES.

6. EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES ON-SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. EROSION CONTROL MEASURES SHALL BE INSPECTED AT THE END OF EACH WORKING DAY AND AFTER EACH STORM EVENT TO ENSURE THAT ALL MEASURES ARE FUNCTIONING PROPERLY. ANY REPAIRS SHALL BE MADE BY THE CONTRACTOR.

7. IN ADDITION TO THE NOTE ABOVE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN EVENT, AND REPAIRED AS NECESSARY . THESE INSPECTIONS SHALL BE DOCUMENTED WITH COPIES SENT TO THE OWNER.

8. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ON SITE. SILT BARRIER TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR OWNER: **GA WAR VETERANS HOME** .

9. **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.**

10. **EROSION AND SEDIMENTATION 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.**

11. **ANY DISTURBED AREA LEFT IDLE/EXPOSED FOR A PERIOD GREATER THAN 14-DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING; DISTURBED AREAS IDLE/EXPOSED 30-DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.**

12. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.

13. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (I.E. SILT FENCE, SEDIMENT TRAPS, ETC...) AND TREE PROTECTION FENCING ONCE PERMANENT VEGETATION IS ESTABLISHED.

14. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND FOR CLEARING ANY DEBRIS AND SEDIMENT THAT IS CAUSED BY CONSTRUCTION ACTIVITIES.

15. ALL DISTURBED AREAS SHALL BEST BE STABILIZED AS REQUIRED BY THESE PLANS BY THE SITEWORK CONTRACTOR AS SOON AS CONSTRUCTION PHASES PERMIT.

16. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24-HOURS OF SEEDING.

17. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES 4:1 OR STEEPER, MULCH WILL BE ANCHORED.

18. SILT FENCE SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 171 OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, CURRENT EDITION, AND/OR GEORGIA EPD "GREEN BOOK" AS AMENDED.

19. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME FOR RETROFITS AND TEMPORARY SEDIMENT BASINS, AND THE 1/2 FULL VOLUME FOR ALL OTHER SEDIMENT STORAGE STRUCTURES (I.E. CHECK DAMS, SILT FENCE, ETC...).

20. ALL SEDIMENT STORAGE DEVICES ARE TO BE CONSTRUCTED COMPLETELY AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.

21. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING AND BLANKETS.

22. ALL PERMANENT GRADED EARTH SLOPES, EXCAVATION OR EMBANKMENT (CUT AND FILL), SHALL BE GRADED TO A MAXIMUM FINISHED SLOPE OF TWO (2) FEET HORIZONTAL TO ONE (1) FOOT VERTICAL (MAXIMUM SLOPE 2H:1V).

23. ALL DISTURBED AREAS LEFT MULCHED AFTER 30-DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

24. 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.

25. 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, I.E., MANDATORY STOP WORK ORDER!

GENERAL EROSION & SEDIMENTATION CONTROL NOTES (CONT'D.):

26. 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" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM A VEHICLE OR FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

INITIAL PHASE (CLEARING & GRUBBING) NOTES:

1. ALL STAGING AREAS, MATERIAL STORAGE AREAS, CONCRETE WASH-OUT AREAS, SHALL BE LOCATED AT SETBACK DISTANCES FROM DESIGNATED TREE PROTECTION AREAS AND/OR STREAM BUFFERS AS REQUIRED BY LOCAL AND STATE REGULATIONS.

2. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. POST ON DAY ONE.

3. PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DELINEATED 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.

4. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT (Co) SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY AS SHOWN ON THE PLANS.
   LOCATION: **Construction Outlet #1** **Lat - 34.0969** **Long - 84.1816** **Construction Outlet #2** **Lat - 34.1008** **Long - 84.1875**

5. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE OF THE EROSION CONTROL PLAN.

6. SILT FENCE OR APPROVED EQUAL SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA OR AS SHOWN ON THE PLAN. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES HALF THE HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

7. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.

8. TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING 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.

9. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL WITHIN 7 DAYS AFTER INSTALLATION. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION 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 INSPECTION WITH CONSULTATION WITH THE DESIGN PROFESSIONAL.

10. 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 STORAGE DEVICES AS SHOWN ON THE INITIAL PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.

11. INITIAL PHASE BMP'S UTILIZED IN THIS PLAN(S) ARE AS FOLLOWS:

    SILT FENCE
    CONSTRUCTION OUTLET
    STORM BOX SEDIMENT TRAP

INTERMEDIATE PHASE (GRADING & TEMPORARY VEGETATION) NOTES:

1. MAINTAIN PREVIOUSLY INSTALLED BMP'S.

2. 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.

3. 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 FINAL 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 AND SEDIMENTATION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

4. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES HALF OF THE HEIGHT OF THE BARRIER.

5. SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS.

6. AFTER PRELIMINARY CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT ENTRAPMENT DEVICES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE DEVICES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT WHEN IT REACHES THE CLEAN-OUT ELEVATION SHOWN ON THE PLANS.

7. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED WEEKLY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

8. INTERMEDIATE PHASE BMP'S UTILIZED ON THIS PLAN(S) ARE AS FOLLOWS:

    MULCHING
    DUST CONTROL
    STORM BOX SEDIMENT TRAP
    TEMPORARY GRASSING

FINAL PHASE (STORMWATER MANAGEMENT & PERMANENT VEGETATION) NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT DEVICES AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF EACH DEVICE WHEN IT REACHES THE REQUIRED CLEAN-OUT ELEVATION SHOWN ON THE PLANS.

2. AFTER CURBING AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON THE EXISTING INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION.

3. FINAL STABILIZATION OF PERMANENT GRASS MUST MEET 100% COVERAGE, 70% DENSITY RULE.

4. FINAL PHASE BMP'S UTILIZED ON THIS PLAN(S) ARE AS FOLLOWS:

    FINAL GRASSING (SEED OR SOD)
    SEDIMENT SOCK, HAY BALES FOR SOD BED PREP.

NOTE:
THESE ARE STANDARD NOTES PROVIDED BY THE LOCAL ISSUING AUTHORITY AND MODIFIED BY THE DESIGN PROFESSIONAL.

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p 704.521.9880

Seals:

GEORGIA REGISTERED No. 34466 PROFESSIONAL ENGINEER WILLIAM R. POOLE

Level II Certification 17040
EXPIRES 09/23/21

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

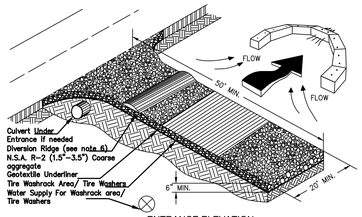
Project No: 17.000291
Date: 01.08.20
Revisions:
1 Per County Comments (ENTIRE SHEET ADDED) 02.13.20
2 **Add note for 24 hour notification** 03/05/20

Sheet Title:
ESCP PLAN - NOTES 3 of 3

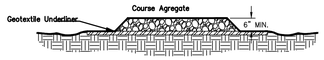
Sheet No:
C309

CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



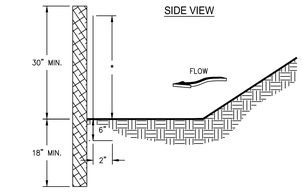
ENTRANCE ELEVATION



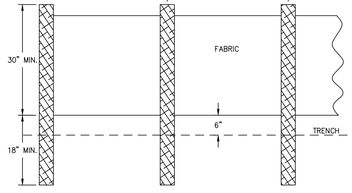
NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

SILT FENCE - TYPE NON-SENSITIVE

SIDE VIEW

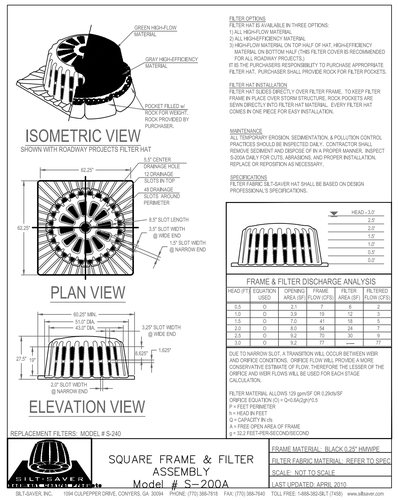


FRONT VIEW



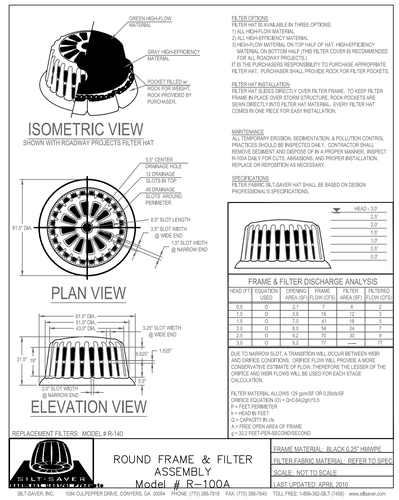
NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

NOTE: GDOT QPL 36 (CPOP) MAY BE USED IN LIEU OF WIRE FENCE AND METAL STAKES; CONTRACTOR RESPONSIBLE FOR PERFORMANCE OF CPOP FENCE.


GREEN HIGH-FLOW MATERIAL
GRAY HIGH-EFFICIENCY MATERIAL
POCKET FILLED w/ ROCK FOR WEIGHT, ROCK PROVIDED BY PURCHASER.
ISOMETRIC VIEW
SHOWN WITH ROADWAY PROJECTS FILTER HAT
5.5" CENTER DRAINAGE HOLE
12 DRAINAGE SLOTS IN TOP
48 DRAINAGE SLOTS AROUND PERIMETER
8.5" SLOT LENGTH
3.5" SLOT WIDTH @ WIDE END
1.5" SLOT WIDTH @ NARROW END
62.25"
62.25"
PLAN VIEW
65.25" MIN.
61.0" DIA.
43.0" DIA.
3.25" SLOT WIDTH @ WIDE END
1.625"
8.625"
27.5"
2.0" SLOT WIDTH @ NARROW END
ELEVATION VIEW
REPLACEMENT FILTERS: MODEL # S-240
FILTER OPTIONS
FILTER HAT IS AVAILABLE IN THREE OPTIONS:
1) ALL HIGH-FLOW MATERIAL
2) ALL HIGH-EFFICIENCY MATERIAL
3) HIGH-FLOW MATERIAL ON TOP HALF OF HAT, HIGH-EFFICIENCY MATERIAL ON BOTTOM HALF (THIS FILTER COVER IS RECOMMENDED FOR ALL ROADWAY PROJECTS.)
IT IS THE PURCHASERS RESPONSIBILITY TO PURCHASE APPROPRIATE FILTER HAT. PURCHASER SHALL PROVIDE ROCK FOR FILTER POCKETS.
FILTER HAT INSTALLATION
FILTER HAT SLIDES DIRECTLY OVER FILTER FRAME. TO KEEP FILTER FRAME IN PLACE OVER STORM STRUCTURE, ROCK POCKETS ARE SEWN DIRECTLY INTO FILTER HAT MATERIAL. EVERY FILTER HAT COMES IN ONE PIECE FOR EASY INSTALLATION.
MAINTENANCE
ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPECT S-200A DAILY FOR CUTS, ABRASIONS, AND PROPER INSTALLATION. REPLACE OR REPOSITION AS NECESSARY.
SPECIFICATIONS
FILTER FABRIC SILT-SAVER HAT SHALL BE BASED ON DESIGN PROFESSIONAL'S SPECIFICATIONS.
HEAD - 3.0
2.5'
2.0'
1.5'
1.0'
0.5'
0.0'
FRAME & FILTER DISCHARGE ANALYSIS

HEAD (FT)	EQUATION USED	OPENING AREA (SF)	FRAME FLOW (CFS)	FILTER AREA (SF)	FILTERED FLOW (CFS)
3.0	O	9.2	72	30	7.2
2.5	O	9.2	72	30	7.2
2.0	O	9.2	72	30	7.2
1.5	O	9.2	72	30	7.2
1.0	O	9.2	72	30	7.2
0.5	O	9.2	72	—	7.2

DUE TO NARROW SLOT, A TRANSITION WILL OCCUR BETWEEN WEIR AND ORIFICE CONDITIONS. ORIFICE FLOW WILL PROVIDE A MORE CONSERVATIVE ESTIMATE OF FLOW, THEREFORE THE LESSER OF THE ORIFICE AND WEIR FLOWS WILL BE USED FOR EACH STAGE CALCULATION.
FILTER MATERIAL ALLOWS 139 gpm/SF OR 0.2lb/ft/SF
ORIFICE EQUATION (O) = Q=0.6A(2g)^0.5
P=FEET PERIMETER
h = HEAD IN FEET
Q = CAPACITY IN cfs
A = FREE OPEN AREA OF FRAME
g = 32.2 FEET-PER-SECOND/SECOND
SILT-SAVER, INC. 1094 CULPEPPER DRIVE, CONYERS, GA 30094 PHONE: (770) 388-7918 FAX: (770) 388-7640 TOLL FREE: 1-888-382-SILT (7458) www.siltsaver.com
SILT SAVER
SQUARE FRAME & FILTER ASSEMBLY
Model # S-200A
FRAME MATERIAL: BLACK 0.25" MWWPE
FILTER FABRIC MATERIAL: REFER TO SPEC
SCALE: NOT TO SCALE
LAST UPDATED: APRIL 2010


GREEN HIGH-FLOW MATERIAL
GRAY HIGH-EFFICIENCY MATERIAL
POCKET FILLED w/ ROCK FOR WEIGHT, ROCK PROVIDED BY PURCHASER.
ISOMETRIC VIEW
SHOWN WITH ROADWAY PROJECTS FILTER HAT
5.5" CENTER DRAINAGE HOLE
12 DRAINAGE SLOTS IN TOP
48 DRAINAGE SLOTS AROUND PERIMETER
8.5" SLOT LENGTH
3.5" SLOT WIDTH @ WIDE END
1.5" SLOT WIDTH @ NARROW END
61.5" DIA.
61.5" DIA.
PLAN VIEW
61.5" DIA.
43.0" DIA.
3.25" SLOT WIDTH @ WIDE END
1.625"
8.625"
31.5"
2.0" SLOT WIDTH @ NARROW END
ELEVATION VIEW
REPLACEMENT FILTERS: MODEL # R-140
FILTER OPTIONS
FILTER HAT IS AVAILABLE IN THREE OPTIONS:
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2) ALL HIGH-EFFICIENCY MATERIAL
3) HIGH-FLOW MATERIAL ON TOP HALF OF HAT, HIGH-EFFICIENCY MATERIAL ON BOTTOM HALF (THIS FILTER COVER IS RECOMMENDED FOR ALL ROADWAY PROJECTS.)
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SPECIFICATIONS
FILTER FABRIC SILT-SAVER HAT SHALL BE BASED ON DESIGN PROFESSIONAL'S SPECIFICATIONS.
HEAD - 3.0
2.5'
2.0'
1.5'
1.0'
0.5'
0.0'
FRAME & FILTER DISCHARGE ANALYSIS

HEAD (FT)	EQUATION USED	OPENING AREA (SF)	FRAME FLOW (CFS)	FILTER AREA (SF)	FILTERED FLOW (CFS)
3.0	O	9.2	72	41	10
2.5	O	9.2	72	41	10
2.0	O	9.2	72	41	10
1.5	O	9.2	72	41	10
1.0	O	9.2	72	41	10
0.5	O	9.2	72	—	10

DUE TO NARROW SLOT, A TRANSITION WILL OCCUR BETWEEN WEIR AND ORIFICE CONDITIONS. ORIFICE FLOW WILL PROVIDE A MORE CONSERVATIVE ESTIMATE OF FLOW, THEREFORE THE LESSER OF THE ORIFICE AND WEIR FLOWS WILL BE USED FOR EACH STAGE CALCULATION.
FILTER MATERIAL ALLOWS 139 gpm/SF OR 0.2lb/ft/SF
ORIFICE EQUATION (O) = Q=0.6A(2g)^0.5
P=FEET PERIMETER
h = HEAD IN FEET
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A = FREE OPEN AREA OF FRAME
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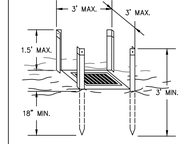
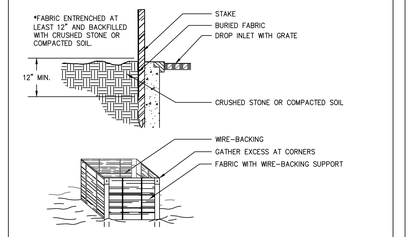
SILT-SAVER, INC. 1094 CULPEPPER DRIVE, CONYERS, GA 30094 PHONE: (770) 388-7918 FAX: (770) 388-7640 TOLL FREE: 1-888-382-SILT (7458) www.siltsaver.com
SILT SAVER
ROUND FRAME & FILTER ASSEMBLY
Model # R-100A
FRAME MATERIAL: BLACK 0.25" MWWPE
FILTER FABRIC MATERIAL: REFER TO SPEC
SCALE: NOT TO SCALE
LAST UPDATED: APRIL 2010

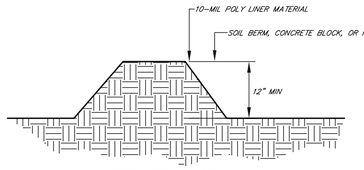
FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND SILT FENCE INSTALLATION

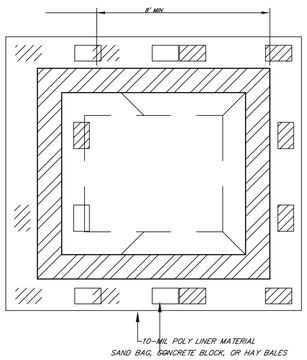


NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.





BERM CROSS SECTION



PLAN VIEW

CONCRETE WASHDOWN NOTES

1. DESIGNATED WASHDOWN AREA AND EXCAVATE PIT LARGE ENOUGH TO CONTAIN WASHDOWN WATER. THIS MUST BE AWAY FROM STORM DRAINS AND WATERWAYS.
2. ADVISE CONCRETE TRUCK DRIVERS OF THE DESIGNATED WASH-OUT AREAS BEFORE THEY START THE JOB.
3. WASHDOWN CHUTE, HOPPER, AND REAR OF VEHICLE ONLY. DO NOT WASH OUT DRUM
4. ENSURE THAT ALL WASHDOWN WATER STAYS IN PIT.
5. DISPOSE OF SETTLED, HARDENED CONCRETE IN GARBAGE WITH OTHER CONSTRUCTION DEBRIS.
6. NEVER DISPOSE OF WASHDOWN WATER IN STREETS, STORM DRAINS, OR STREAMS.

CONCRETE WASHDOWN PIT

Dust Control on Disturbed Areas — Du

DEFINITION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE

- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances which may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. TEMPORARY METHODS

Mulches. See standard **Dn1 - Disturbed Area Stabilization (With Mulching Only).** Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard **Ts-Tackifiers and Binders**. Resins such as Curasol or Terratack should be used according to manufacturer's recommendations.

Vegetative Cover. See standard **Ds2 - Disturbed Area Stabilization (With Temporary Seeding).**

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to standard **Ts-Tackifiers and Binders**.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. **Repeat as needed.**

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. PERMANENT METHODS

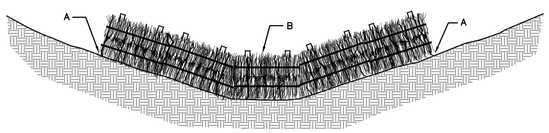
Permanent Vegetation. See standard **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation).** Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See standard **Tp - Topsoiling.**

Stone. Cover surface with crushed stone or coarse gravel. See standard **Cr-Construction Road Stabilization.**

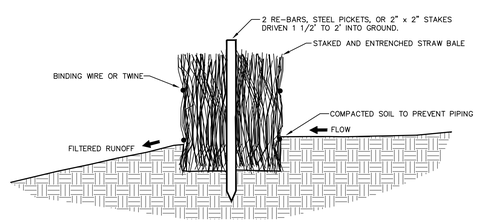
GaSWCC (Amended - 2000) 6-61

Du DUST CONTROL ON DISTURBED AREAS
GEORGIA STATE SOIL & WATER CONSERVATION COMMISSION (FIFTH EDITION)



NOTES:
1) POINTS A SHOULD BE HIGHER THAN POINT B.
2) CONFIGURATION OF HAY BALES MAY VARY TO PREVENT ANY SPACES BETWEEN BALES.

ELEVATION VIEW



NOTE: EMBED HAY BALES A MINIMUM OF 4 INCHES.

CROSS-SECTION VIEW

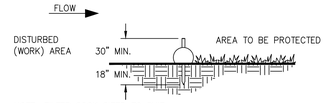
Sd1 HAYBALES HAYBALE INSTALLATION DETAIL
NOT TO SCALE

EROSION AND SEDIMENT CONTROL

Sd1 SOCK

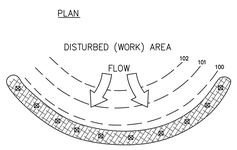
COMPOST FILTER SOCK

CROSS-SECTION



NOTE: FILTER SOCK SIZED TO SUIT CONDITIONS (SEE APPROVED LIST)

PLAN



Notify Forsyth County Inspector 24 hours before the beginning phase construction. (770) 781-2165

GEORGIA UNIFORM CODING SYSTEM

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

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A trafficway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

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

VEGETATIVE PRACTICES

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

GaSWCC (Amended – 2013)

benesch
Alfred Benesch & Company
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Charlotte, NC 28208
www.benesch.com
p 704.521.9880

Seals:

GEORGIA REGISTERED No. 34406 PROFESSIONAL ENGINEER WILLIAM R. POOLE

Level II Certification 17040
EXPIRES 09/23/21

Corp. NC License: F-1320

Caney Creek Preserve
2755 Caney Road, 3055 Caney Road
Forsyth County

Project No: 17.000291
Date: 02.13.20
Revisions:
1 Per County Comments (ENTIRE SHEET ADDED) 01.31.20
2 Add note for 24 hour notification 03/05/20

Sheet Title:
ESCP DETAILS - 1 of 2

Sheet No:
C310

PLANT, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER

1/ Temporary cover crops are very competitive and will crown out perennials if seeded too heavily.
2/ Reduce seeding rates by 50% when drilled.
3/ PLS is an abbreviation for Pure Live Seed.
4/ P represents the Southern Piedmont MLRA

Ds2 STABILIZATION WITH TEMPORARY SEEDING

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.	30lbs./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.

FERTILIZER RATES

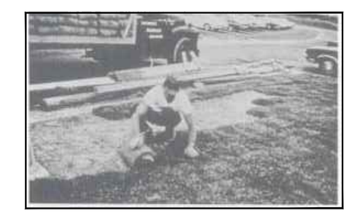
Ds3 STABILIZATION WITH PERMANENT SEEDING

MATERIAL	QUANTITY
DRY STRAW OR HAY	2" - 4" DEPTH
WOOD WASTE (SAWDUST, BARK, CHIPS)	2" - 3" DEPTH
CUTBACK ASPHALT (SLOW CURING)	1200 GAL. PER ACRE (1/4 GAL PER SQ. YD.)
POLYETHYLENE FILM	COMPLETELY COVERING EXPOSED AREA. TRENCHED IN AT OUTER EDGES.

STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. MULCH MAY BE ANCHORED BY MECHANICALLY PRESSING INTO SURFACE. IF SPREAD WITH BLOWER EQIPMENT, MULCH SHALL BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1)--100 GAL. ASPHALT + 100 GAL. WATER PER TON OF MULCH. NETTING SHALL BE USED TO ANCHOR WOOD WASTE AND CHIPS. POLYETHYLENE SHALL BE TRENCHED IN AT EDGES.

Ds1 MULCHING

DISTURBED AREA STABILIZATION (WITH SODDING) Ds4



DEFINITION

A permanent vegetative cover using sods on highly erodible or critically eroded lands.

PURPOSE

- Establish immediate ground cover.
- Reduce runoff and erosion.
- Improve aesthetics and land value.
- Reduce dust and sediments.
- Stabilize waterways, critical areas.
- Filter sediments, nutrients and bugs.
- Reduce downstream complaints.
- Reduce likelihood of legal action.
- Reduce likelihood of work stoppage due to legal action.
- Increase "good neighbor" benefits.

CONDITIONS

This application is appropriate for areas which require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow.

PLANNING CONSIDERATIONS

Sodding can initially be more costly than seeding, but the advantages justify the increased initial costs.

1. Immediate erosion control, green surface, and quick use.
2. Reduced failure as compared to seed as well as the lack of weeds.
3. Can be established nearly year-round.

Sodding is preferable to seed in waterways and swales because of the immediate protection of the channel after application. Sodding must be staked in concentrated flow areas (See Figure 6-6.1).

Consider using sod framed around drop inlets to reduce sediments and maintaining the grade.

CONSTRUCTION SPECIFICATIONS INSTALLATION

Soil Preparation

Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.

Topsoil properly applied will help guarantee a stand. Don't use topsoil recently treated with herbicides or soil sterilants.

Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1.

Table 6-6.1. Fertilizer Requirements for Soil Surface Application

Fertilizer Type	Fertilizer Rate (lbs /acre)	Fertilizer Rate (lbs /sq ft)	Season
10-10-10	1000	.025	Fall

Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Installation

Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod (See Figure 6-6.2)

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On slopes steeper than 3:1, sod should be anchored with pins or other approved methods. Installed sod should be rolled or tamped to provide good contact between sod and soil.

Irrigate sod and soil to a depth of 4" immediately after installation.

Sod should not be cut or spread in extremely wet or dry weather. Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

MATERIALS

Sod selected should be certified. Sod grown in the general area of the project is desirable.

1. Sod should be machine cut and contain 3/4" (+ or -1/4") of soil, not including shoots or thatch.
2. Sod should be cut to the desired size within + or -5%. Torn or uneven pads should be rejected.
3. Sod should be cut and installed within 36 hours of digging.
4. Avoid planting when subject to frost heave or hot weather if irrigation is not available.
5. The sod type should be shown on the plans or installed according to Table 6-6.2. See Figure 6-4.1 for your Resource Area.

Table 6-6.2. Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L,P,C P,C P,C P,C	Warm Weather
Bahiagrass	Pensacola	P,C	Warm Weather
Centipede	-	P,C	Warm Weather
St. Augustine	Common Bitterblue Raleigh	C	Warm Weather
Zoysia	Emerald Myer	P,C	Warm Weather
Tall Fescue	Kentucky	M-L,P	Cool Weather

MAINTENANCE

Re-sod areas where an adequate stand of sod is not obtained. New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified (See Figure 6-6.2).

Apply one ton of agricultural lime as indicated by soil test or every 4-6 years. Fertilize grasses in accordance with soil tests or Table 6-6.3.

Table 6-6.3. Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 - 30
Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

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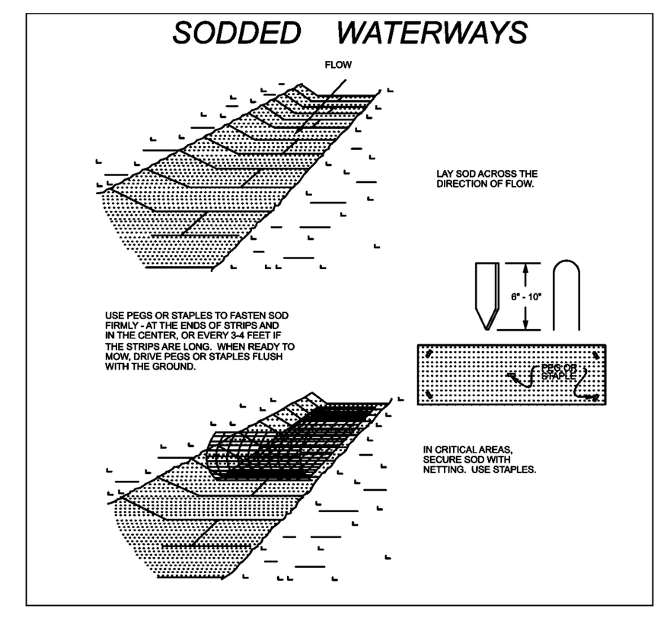
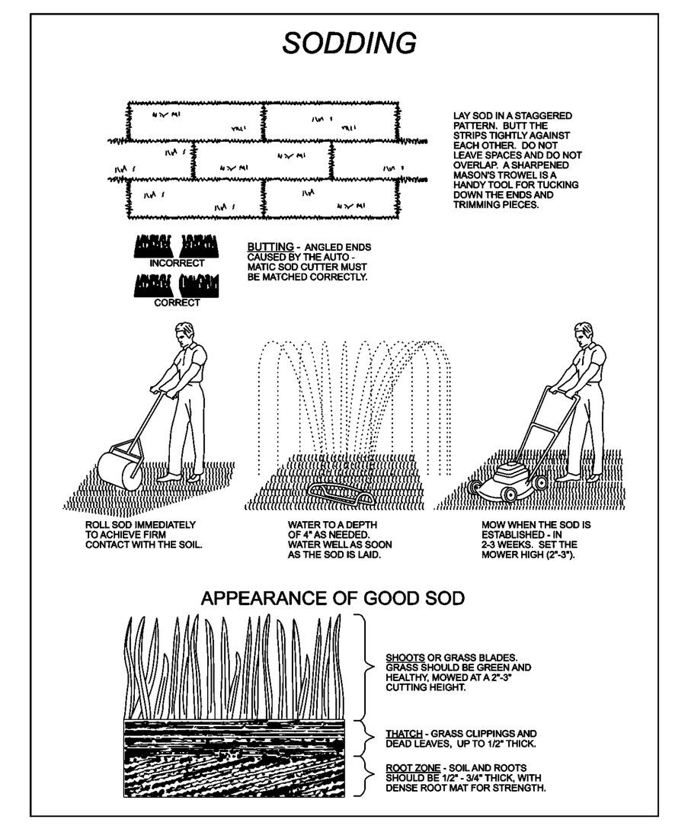


Source: Va. DSWC

Figure 6-6.1



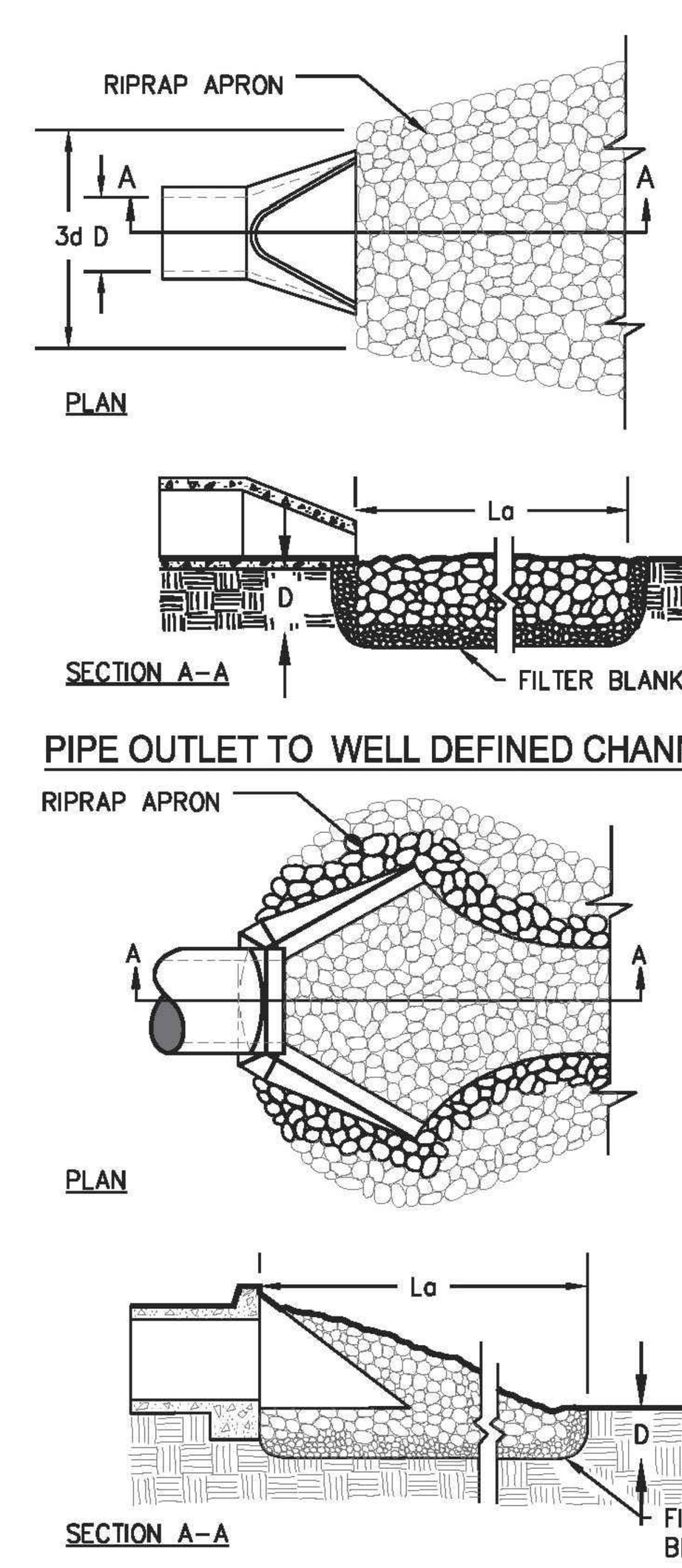
Source: Va. DSWC

Figure 6-6.2

GaSWCC (Amended - 2000) 6-59 6-60 GaSWCC (Amended - 2000)

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)
GEORGIA STATE SOIL & WATER CONSERVATION COMMISSION (FIFTH EDITION)

RIPRAP OUTLET PROTECTION (St)



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

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

GSWCC 2016 Edition 6-212

Notify Forsyth County Inspector 24 hours before the beginning phase construction. (770) 781-2165 (2)

Disturbed Area Stabilization (With Mulching Only) Ds1

DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE

- To reduce runoff and erosion
- To conserve moisture
- To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature
- To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored, and have a continuous 90% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. **Refer to Ds2 -Disturbed Area Stabilization (With Temporary Seeding)**, **Ds3 - Disturbed Area Stabilization (With Permanent Seeding)**, and **Ds4 - Disturbed Area Stabilization (With Sodding)**.

SPECIFICATIONS

MULCHING WITHOUT SEEDING

This standard applies to grades or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth indicated:

1. *Dry straw or hay* shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. *Wood waste* (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. *Cutback asphalt* (slow curing) shall be applied at 1200 gallons per acre (or 1/4 gallon per sq. yd.).
4. *Polyethylene film* shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and reused.

Applying Mulch

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. *Dry straw or hay mulch* and *wood chips* shall be applied uniformly by hand or by mechanical equipment.

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6-34

2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Cutback asphalt shall be applied uniformly. Care should be taken in areas of pedestrian traffic due to problems of 'tracking in" or damage to shoes, clothing, etc.
4. Apply polyethylene film on exposed areas.

Anchoring Mulch

1. *Straw or hay mulch* can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. **Straw or hay mulch shall be anchored immediately after application.**

   Straw or hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-5 or SS-1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. Use 100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifers and binders can be substituted for emulsified asphalt. Please refer to specification **Tb - Tackifers and Binders**. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.
2. Netting of the appropriate size shall be used to anchor *wood waste.* Openings of the netting shall not be larger than the average size of the wood waste chips.
3. *Polyethylene film* shall be anchor trenched at the top as well as incrementally as necessary.

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Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
GEORGIA STATE SOIL & WATER CONSERVATION COMMISSION (FIFTH EDITION)

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Seals:

Level II Certification 17040
EXPIRES 09/23/21

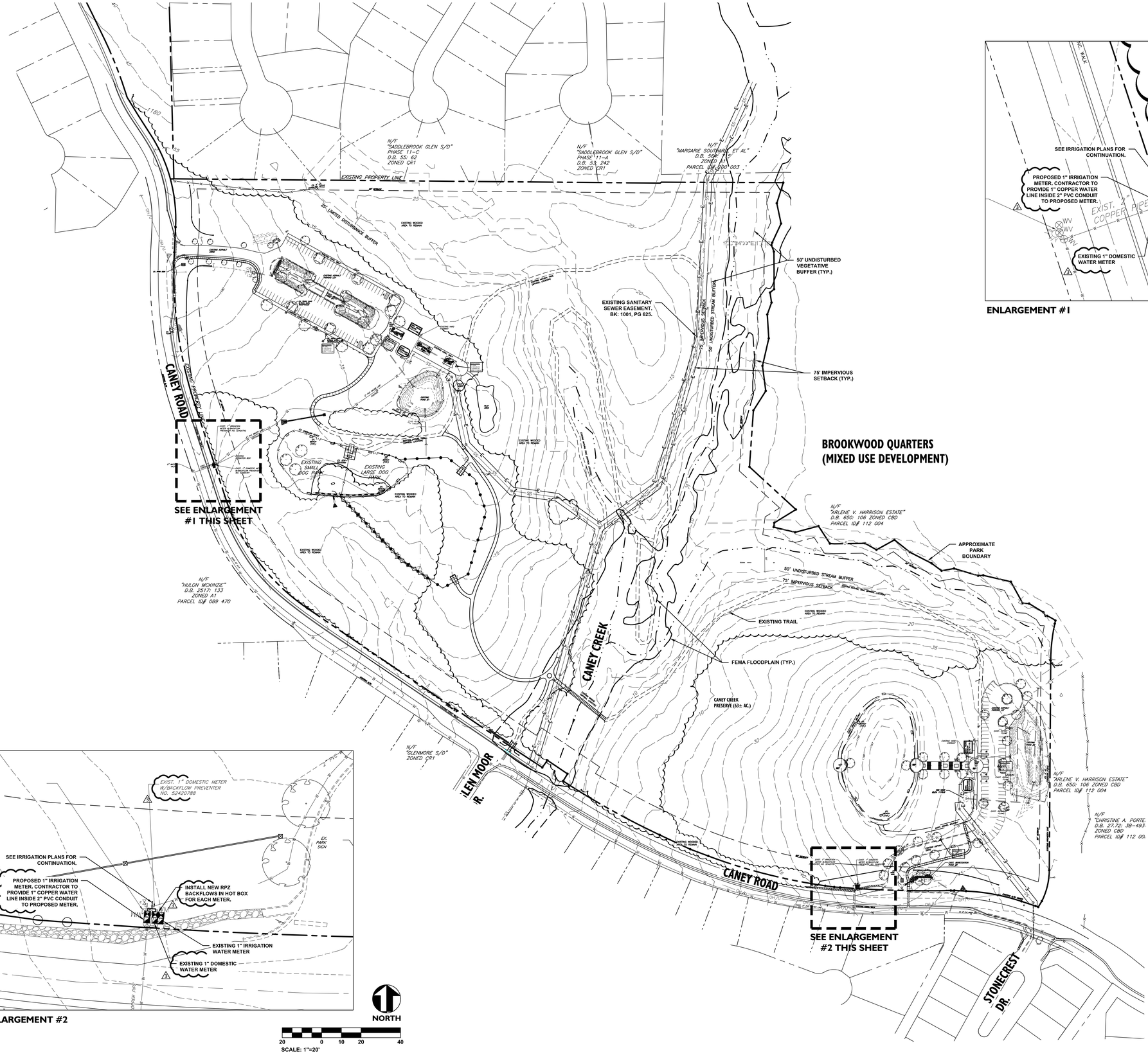
Corp. NC License: F-1320

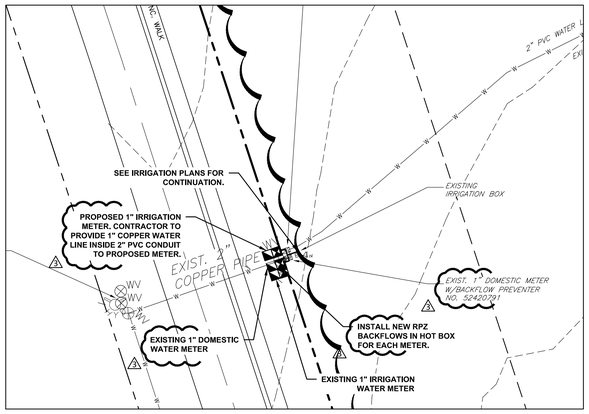
Caney Creek Preserve
2755 Caney Road, 3055 Caney Road
Forsyth County

Project No: 17.000291
Date: 01.08.20
Revisions:
1 Per County Comments (ENTIRE SHEET ADDED) 02.13.20
2 Add note for 24 hour notification 03/05/20

Sheet Title:
ESCP DETAILS - 2 of 2

Sheet No:
C311





ENLARGEMENT #1

ENLARGEMENT #2

UTILITY NOTES

1. UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODE REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES (STORM DRAINAGE, ELECTRIC, GAS, TELEPHONE, ETC.) PRIOR TO CONSTRUCTION. INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION PLANS AND ACTUAL FIELD CONDITIONS ARE FOUND.
4. THE CONNECTION TO EXISTING WATER MAINS SHALL BE PERFORMED ONLY AFTER ALL PRESSURE TESTING AND CHLORINATION ARE SUCCESSFULLY COMPLETED AND THE LOCAL REVIEW AUTHORITY HAS APPROVED THE CONNECTION. THE CONTRACTOR SHALL AVOID DISRUPTION OF EXISTING SERVICE.
5. UNLESS OTHERWISE NOTED, THE PHYSICAL CONNECTION BETWEEN THE SITE UTILITY LINES AND THE PIPE INSTALLED BY THE PLUMBING CONTRACTOR SHALL BE MADE BY THE SITE UTILITY CONTRACTOR.
6. PIPE LENGTHS SHOWN ON PLAN ARE THE ENGINEER'S ESTIMATE USED TO COMPUTE PIPE SLOPES AND INVERTS AND SHALL NOT BE CONSTRUED BY THE CONTRACTOR TO REPRESENT THE ACTUAL QUANTITY OF PIPE REQUIRED.
7. IRRIGATION SYSTEMS ARE PROHIBITED ON ALL EXISTING AND PROPOSED COUNTY RIGHT-OF-WAY AND CONSIDERED TO BE A VIOLATION OF THE COUNTY'S ORDINANCE PROHIBITING UNPERMITTED RIGH-OF-WAY ENCROACHMENTS.

FORSYTH COUNTY WATER NOTES

1. NOTIFY FORSYTH COUNTY WATER AND SEWER DEPT. 24 HOURS PRIOR T ANY SEWER CONSTRUCTION AT **(404) 623-4241.**
2. WATER SERVICE IS PROVIDED BY THE FORSYTH COUNTY DEPARTMENT OF WATER AND SEWER.
3. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL INFRASTRUCTURE FOR A PERIOD OF 18 MONTHS AFTER THE RECORDING DATE OF THE FINAL PLAT.
4. ALL WORK AND MATERIALS ARE TO CONFORM TO CURRENT FORSYTH COUNTY STANDARDS.
5. THE CONTRACTOR SHALL CALL THE UTILITIES PROTECTION CENTER "CALL BEFORE YOU DIG", TELEPHONE NUMBER 1-800-282-7411, **BEFORE** INITIATING EXCAVATION ACTIVITIES.
6. ALL WATER LINES SHALL BE DUCTILE IRON PIPE CLASS 50 OR 350.
7. WATER LINES SHALL BE INSTALLED 5' BACK OF CURB,
8. WATER LINES SHALL HAVE AT LEAST 4 FEET OF COVER OR BE 4 FEET BELOW GRADE WHICHEVER IS GREATER.
9. SHORT SIDE SERVICES SHALL BE 3/4" COPPER.
10. LONG SIDE SERVICES SHALL BE 1" COPPER IN 2" PVC CONDUITS WITH 3/4" WYES AT LOT CORNERS.
11. WATER METER ARE TO BE LOCATED IMMEDIATELY BEHIND BACK OF CURB.
12. FIRE HYDRANTS ARE TO BE 3-WAY 5-1/4" TYPE, AVK SERIES 27.
13. FIRE HYDRANTS MUST BE FLOW TESTED PRIOR TO FINAL PLAT TO ENSURE ADEQUATE FLOWS.
14. CONCRETE MAKERS ARE TO BE INSTALLED AT ALL VALVES EXCEPT AT FIRE HYDRANTS.
15. CONCRETE BLOCKING SHALL BE PLACED AT ALL BENDS, TEES, AND FITTINGS.
16. 300 PSI CURB STOPS, CORPS, WYES, REQUIRED PER FORSYTH COUNTY STANDARDS.
17. ALL VALVES SHALL BE GATE VALVES.
18. GATE VALVES OVER 5' DEEP SHALL HAVE STEM EXTENSIONS.
19. NO DEVIATIONS FROM APPROVED DRAWINGS ARE ALLOWED WITHOUT APPROVAL FROM FORSYTH COUNTY DEPARTMENT OF WATER AND SEWER.
20. LINES ARE TO BE PRESSURE TESTED AND DISINFECTION PER COUNTY SPECIFICATIONS.

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

I CERTIFY THAT THE PROPOSED WATER DISTRIBUTION SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FCDWS SPECIFICATION DOCUMENT TITLED "STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEMS AND SANITARY SEWER SYSTEMS", INCLUDING ALL AMENDMENTS.

4.22.20

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Seals:

GEORGIA REGISTERED 4-22-20 No. 34466 PROFESSIONAL ENGINEER WILLIAM R. THOMAS

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

Project No:	17.000291
Date:	01.08.20

Revisions:

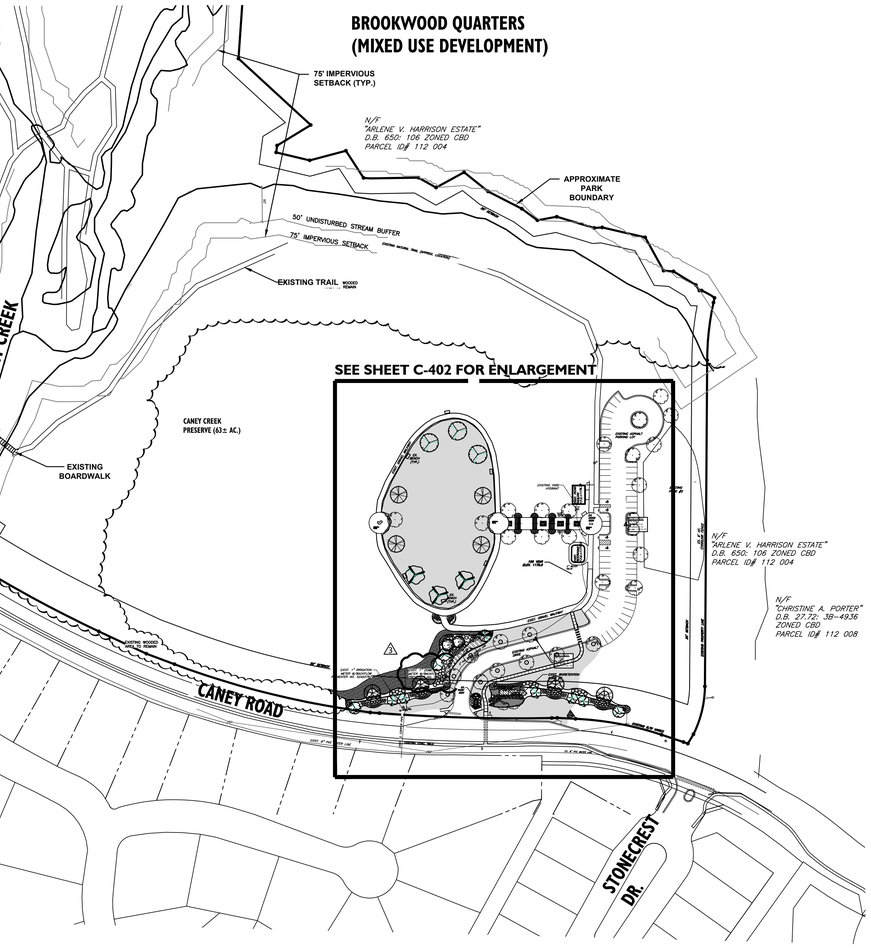
1	Per County Comments	01.31.20
2	Per County Comments	03.04.20
3	Per County Comments	04.27.20

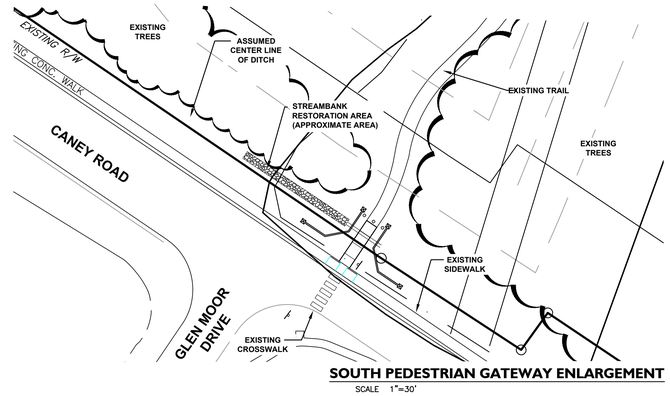
Sheet Title:
Overall Utility Plan

Sheet No:
C400

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	ROOT	CAL.	REMARKS	SIZE
AR	1	Acer rubrum `Autumn Glory` / Autumn Glory Maple	B & B	2"Cal	MATCHED, STRAIGHT	10-12` HT.
AA	1	Amelanchier arborea `Autumn Brilliance` / Downy Serviceberry	B & B	1 1/2" per stem	MULTI-STEM	8-10` HT.
CC	11	Cercis canadensis `Forest Pansy` TM / Forest Pansy Redbud	B & B	1.5"Cal	MATCHED, STRAIGHT	6-8` HT.
CV	10	Chionanthus virginicus `Spring Fleecing` / White Fringetree	B & B	1 1/2" per stem		6-8` HT.
GB	3	Ginkgo biloba `Autumn Gold` TM / Maidenhair Tree	B & B	2.5"Cal	MATCHED, STRAIGHT	12`-14` ht, 6`-8` w
GT	6	Gleditsia triacanthos `Skyline` / Skyline Honey Locust	B & B	2"Cal	MATCHED, STRAIGHT	10-12` HT.
PT	2	Pinus taeda / Loblolly Pine	B & B	2"Cal	FULL	8-10` HT.
QS	14	Quercus shumardii / Shumard Red Oak	B & B	2"Cal	MATCHED, STRAIGHT	12`-14` ht, 6`-8` w
TO	4	Thuja occidentalis `Art Boe` TM / North Pole Arborvitae	15 gal		Full, Straight Specimen	5`-6` ht.
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	REMARKS	HEIGHT	SPREAD
AZ	56	Azalea Encore `Autumn Embers` TM / Autumn Embers Azalea	3 gal	3.5` O.C.	15-18" HT.	15-18"
CE	11	Callicarpa dichotoma `Early Amethyst` / Beautyberry	3 gal	3.5` O.C.	18-24" HT.	18-24"
DV	70	Distylium x Vintage Jade / Vintage Jade Distylium	3 gal	4.5` O.C.	15-18" HT.	18-24"
HR	25	Hibiscus x `Robert Fleming` / Robert Fleming Hibiscus	3 gal	30" oc	15-18" HT.	18-24"
HP	49	Hydrangea paniculata `Limelight` / Limelight Hydrangea	3 gal	6` O.C.	18-24" HT.	18-24"
HS	27	Hydrangea quercifolia `Ruby Slippers` / Ruby Slippers Hydrangea	3 gal	4` O.C.	15-18" HT.	18"
IT	112	Itea virginica `Little Henry` TM / Virginia Sweetspire	3 gal	3` O.C.	15-18" HT.	15-18"
LC2	65	Loropetalum chinense `Daruma` / Daruma Dwarf Loropetalum	3 gal	3` O.C.	15-18" HT.	15-18"
LP	12	Loropetalum chinense `Purple Pixie` / Purple Pixie Loropetalum	3 gal	4` O.C.	12-15"	15-18"
MG2	39	Miscanthus sinensis `Gracillimus` / Maiden Grass	3 gal	3.5` O.C.	18-24" HT.	18-24"
MR	212	Muhlenbergia capillaris `Regal Mist` TM / Muhly	3 gal	3` O.C.	12-15"	15-18"
RM	76	Rosa `Meiggili` / Peach Drift Groundcover Rose	3 gal	24" O.C.	12-15"	12"-15"
RG	44	Rudbeckia fulgida `Goldstrum` / Black Eyed Susan	1 gal	18" o.c.	12-15"	15-18"
VB	16	Viburnum x burkwoodii / Burkwood Viburnum	7 gal	5` O.C.	24-30" HT.	18-24"
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT	REMARKS	SPACING	
BF	30	Iris versicolor / Blue Flag	1 qt.		24" O.C.	
JF	28	Juncus effusus / Soft Rush	1 gal		30" O.C.	
LB	40	Lobelia siphilitica `Big Blue` / Blue Lobelia	4"pot		16" O.C.	
PT2	319	Pachysandra terminalis / Japanese Spurge	4"pot	12" oc	12" O.C.	
PH	120	Panicum virgatum `Heavy Metal` / Blue Switch Grass	1 gal		30" O.C.	
SB	86	Stachys byzantina `Big Ears` / Lamb`s Ear	4"pot		16" O.C.	
SL	36	Stokesia laevis / Stokes` Aster	1 gal		16" O.C.	
VM	654	Vinca minor / Common Periwinkle	4"pot	16" O.C.	16" O.C.	





SOUTH PEDESTRIAN GATEWAY ENLARGEMENT
SCALE 1"=30'

LANDSCAPE NOTES

PLANT MATERIAL

1. MINIMUM TREE SIZE AT PLANTING IS 2" CALIPER AND 8' TALL FOR SINGLE-STEM TREES. ALL MULTI-STEM PLANTS MUST BE TREE FORM, MAXIMUM 3 TO 5 TRUNKS, AND MINIMUM 10' TALL.
2. ALL NEW TREES MUST HAVE STRAIGHT TRUNKS WITH STRONG CENTRAL LEADERS INTACT TO THE TOP OF THE CROWN UNLESS MULTI-STEM TREES ARE SPECIFIED. ALL TREES SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, HAVE NORMAL GROWTH HABITS, HAVE WELL-DEVELOPED BRANCHES, BE VIGOROUS AND HAVE FIBROUS ROOT SYSTEMS. TREES WITH CO-DOMINANT BRANCHING WILL NOT BE ACCEPTED. TREES THAT HAVE BEEN SHEARED, TOPPED OR CUT BACK TO MULTIPLY THE BRANCHING STRUCTURE WILL NOT BE ACCEPTED. TREES SHALL BE FREE OF ABRASIONS, DAMAGE, DISEASE, PESTS AND CRACKS. ALL PRUNING CUTS GREATER THAN 6" DIAMETER SHALL HAVE CALLUS TISSUE FORMED PRIOR TO PLANTING. NO PRUNING CUT ON THE TRUNK SHALL BE MORE THAN ONE-HALF THE DIAMETER OF THE CENTRAL LEADER AT THE HEIGHT WHERE THE CUT WAS MADE. ROOT FLARES SHALL BE LOCATED AT GRADE. TREES WITH MORE THAN 2" OF SOIL COVERING THE ROOT BALL/FLARE FROM WILL NOT BE ACCEPTED.
3. SIZE OF PLANTS, SPREAD OF ROOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (LATEST EDITION) AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
4. ALL TREES OF A PARTICULAR SPECIES AND VARIETY SHALL BE UNIFORM IN SIZE AND CONFIGURATION.

PLANTING REQUIREMENTS

1. PLASTIC HOSE PARTS WILL NOT BE ACCEPTED FOR TREE STAKING. SEE DETAILS AND SPECIFICATIONS FOR APPROVED STAKING METHODMATERIALS.
2. ALL STRAPPING, AND TOP-§ OF WIRE BASKET AND BURLAP MUST BE CUT AWAY AND REMOVED FROM ROOT BALL WHEN PLANTING.
3. FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE COMPACTED SOIL AND ADD 24" NEW TOPSOIL, OR TILL AND AMEND THE TOP 24" OF EXISTING SOIL TO MEET TOPSOIL/ PLANTING MIX STANDARDS FOR TREES.
4. ALL SAUCERS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
5. THE TOP OF ALL ROOT BALLS FOR SHRUBS & GROUNDCOVERS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE, AS BORN TO PREVIOUS GROWING CONDITIONS.
6. ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
7. MULCH A MINIMUM 4 FOOT AREA AROUND EACH TREE AND - MULCH A CONTINUOUS AREA AROUND ALL SHRUB BEDS, AS INDICATED ON THE PLAN. MULCH SHALL BE 3-4" THICK. MULCH AROUND TREES SHALL BE TAPERED TOWARD TRUNK SO THAT NO MORE THAN 2" IS PLACED AT TREE TRUNK AS SHOWN ON DETAIL. SEE SPECIFICATIONS FOR TYPE.

UTILITY ISSUES

1. LARGE MATURING TREES MAY NOT BE PLANTED WITHIN 25' OF OVERHEAD POWER DISTRIBUTION OR TRANSMISSION LINES. IF TREES CONFLICT WITH POWER LINES OR SIGNS, CALL LANDSCAPE ARCHITECT TO RESOLVE BEFORE PLANTING.
2. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED AND CLEARLY PAINTED WITHIN 10 DAYS OF ANY GROUND DISTURBING ACTIVITY. OWNER WILL NOT PAY FOR UTILITY REPAIRS DUE TO FAILURE TO MARK AND OBSERVE UTILITY LOCATIONS.
3. ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES- PLANT 15' FROM ALL UNDERGROUND UTILITIES (SEWER AND STORM DRAINAGE, GAS WATER, PHONE AND ELECTRICAL LINES).

GENERAL

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUANTITY OF PLANTS SHOWN ON THE PLAN. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO PLANTING.
2. ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE (1) YEAR AFTER ACCEPTANCE BY OWNER OF ALL PLANT MATERIAL.
3. ALL DISTURBED AREAS SHALL BE SEEDED AS SPECIFIED.
4. SEE EROSION CONTROL/GRADING PLAN FOR ADDITIONAL TREE PRESERVATION NOTES.

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

NORTH

100 0 50 100 200

SCALE: 1"=100'

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Seals:

GEORGIA REGISTERED No. 001849 PROFESSIONAL LANDSCAPE ARCHITECT JANET A. ASHBAUGH 4-27-2020

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

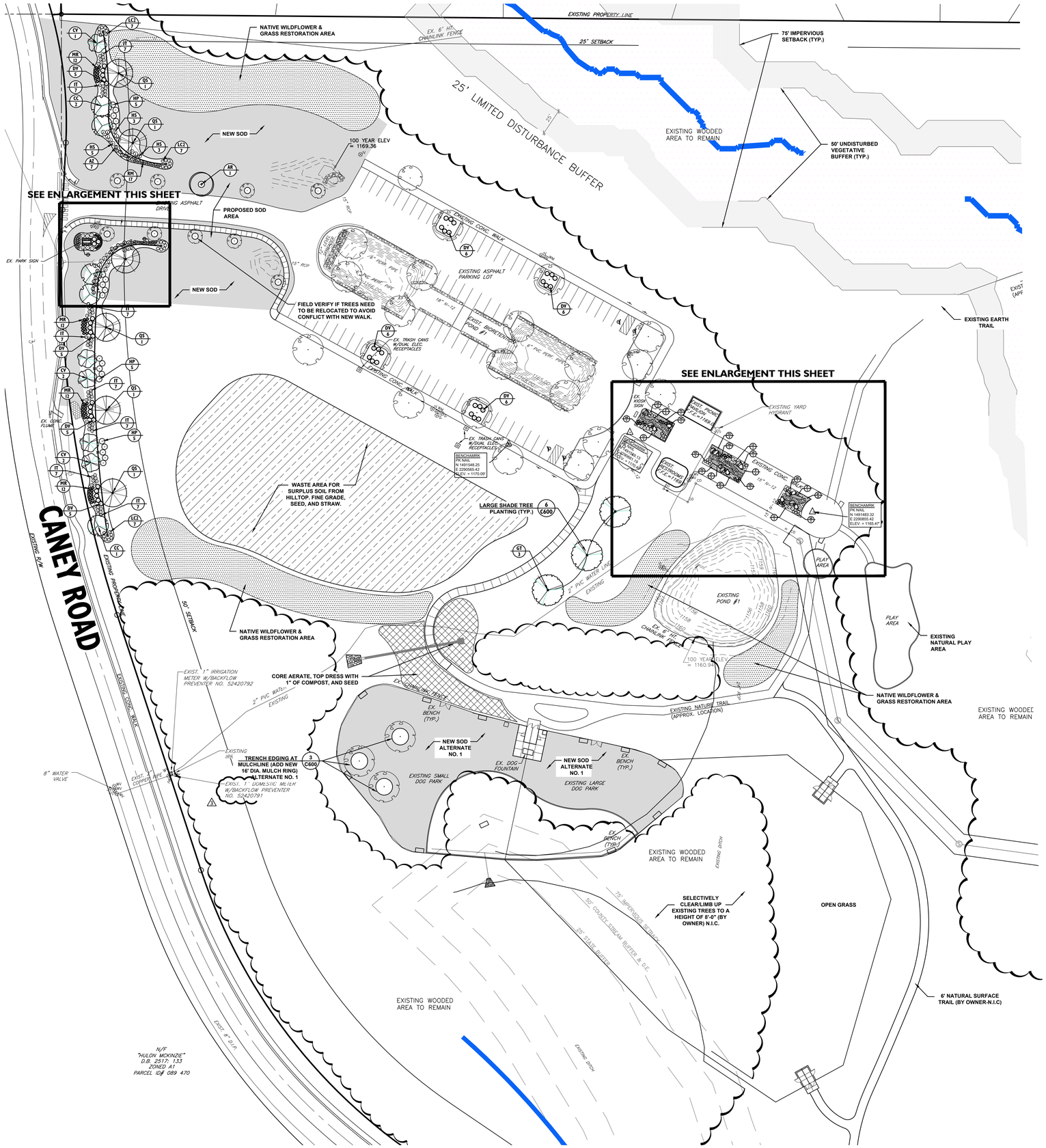
Project No:	17.000291
Date:	01.08.20

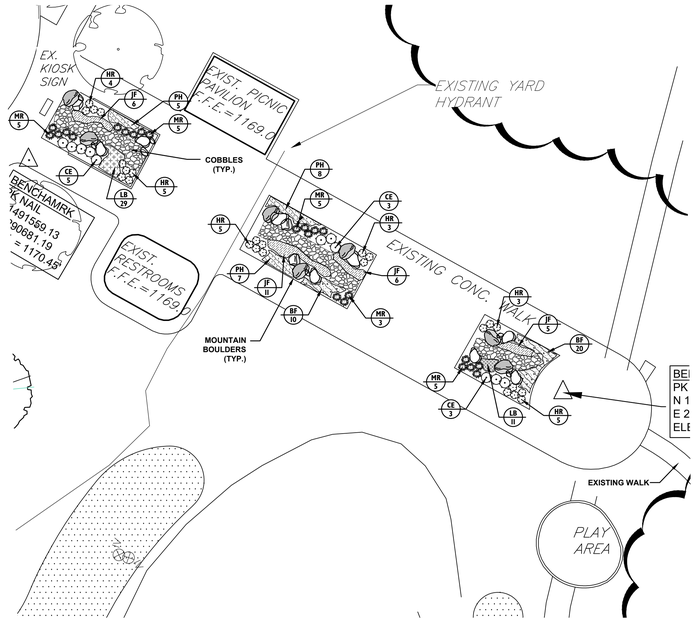
Revisions:

1	Per County Comments	01.31.20
2	Per County Comments	03.04.20
3	Per County Comments	04.27.20

Sheet Title:
Overall Landscape Plan

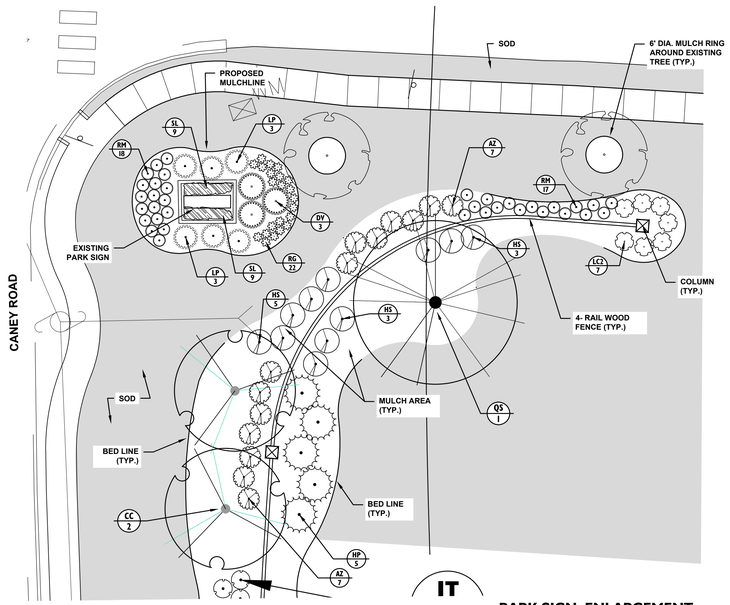
Sheet No:
C500





WEST PROMENADE IMPROVEMENTS ENLARGEMENT

SCALE 1"=20'



PARK SIGN ENLARGEMENT

SCALE 1"=10'

LEGEND

- SIGN
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- HC — ACCESSIBLE SPACE
- EXISTING FIRE HYDRANT
- EXISTING TREE TO REMAIN
- PROPOSED GROUNDCOVER
- QS 12 — PLANT LABEL / PLANT QUANTITY
- EXISTING CURB AND GUTTER
- PROPERTY LINE
- EXISTING FENCE
- PROPOSED FENCE
- UGE — EXISTING UNDERGROUND ELECTRIC LINE
- OH/U — EXISTING OVERHEAD UTILITY LINE
- EXISTING TREE LINE
- PROPOSED TREE LINE AFTER CLEARING
- PROPOSED MULCH LINE
- PROPOSED STORM DRAINAGE PIPE

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

NORTH

40 0 20 40 80

SCALE: 1"=40'

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Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
P 704.521.9880

Seals:

GEORGIA REGISTERED No. 001849 PROFESSIONAL LANDSCAPE ARCHITECT JUDITH A. ASHMALL 4-27-2020

Corp. NC License: F-1320

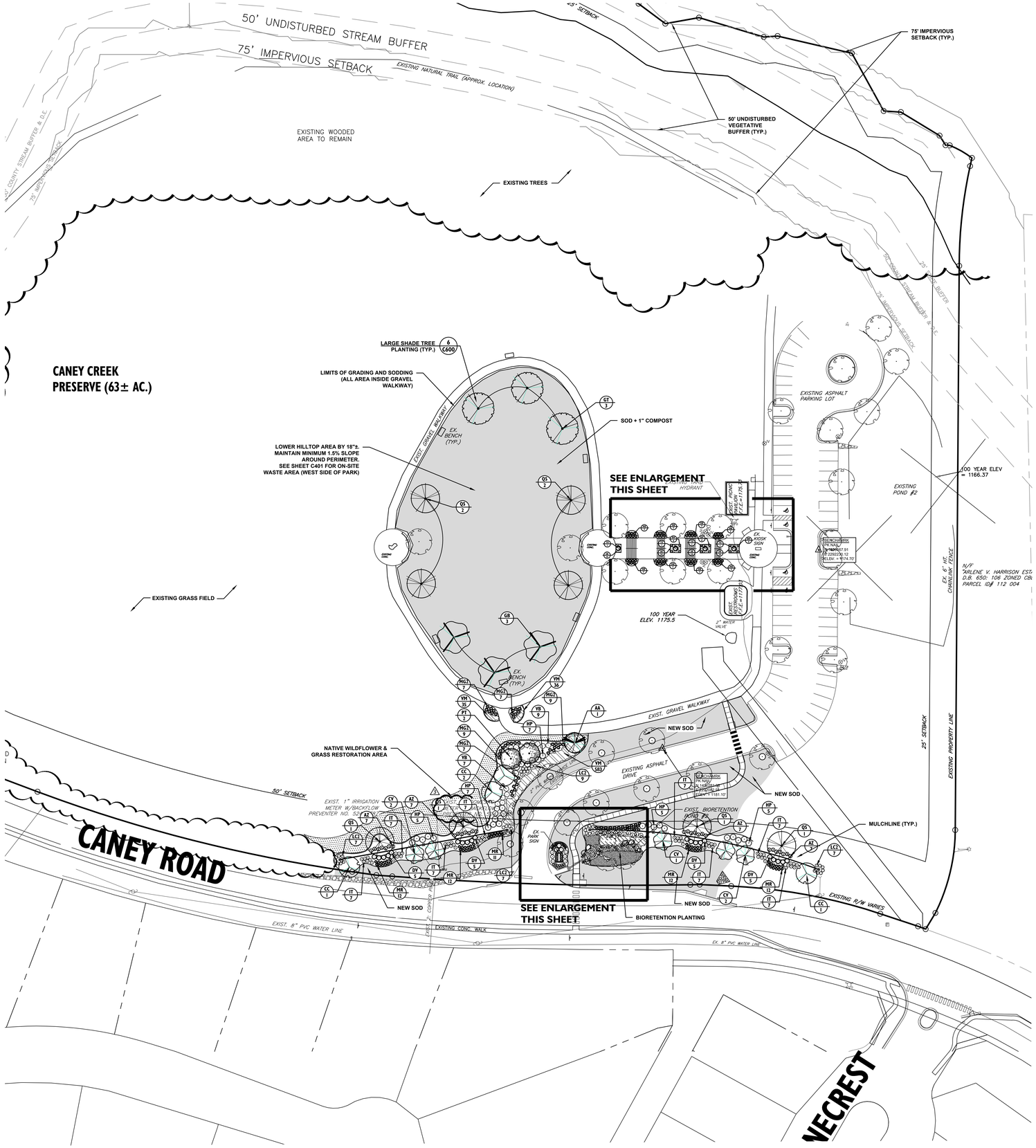
Caney Creek Preserve

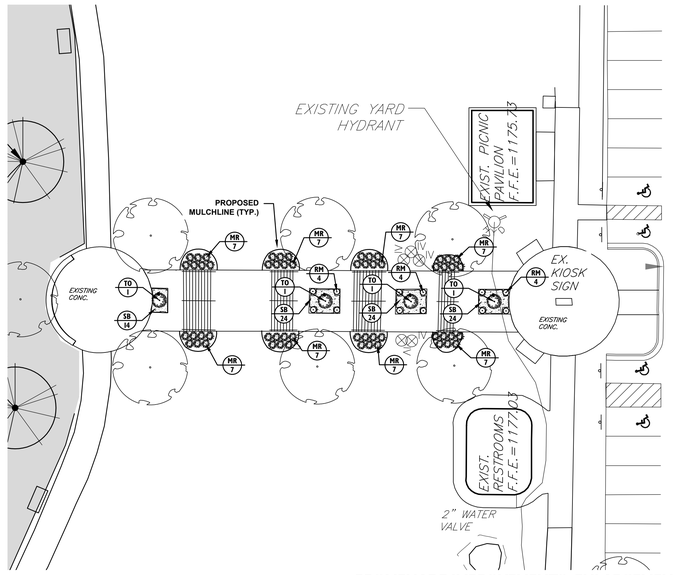
2755 Caney Road, 3055 Caney Road
Forsyth County

Project No: 17.000291
Date: 01.08.20
Revisions:
1 Per County Comments 01.31.20
2 Per County Comments 03.04.20
3 Per County Comments 04.27.20

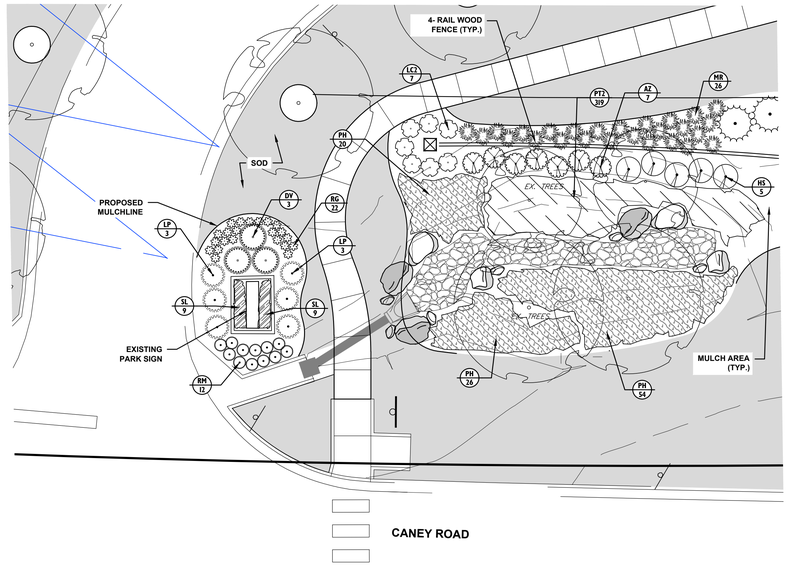
Sheet Title:
Landscape Plan Enlargement-West

Sheet No:
C501





PROMENADE IMPROVEMENTS ENLARGEMENT
SCALE 1"=20'



PARK SIGN ENLARGEMENT
SCALE 1"=10'

LEGEND

- SIGN
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- HC ACCESSIBLE SPACE
- EXISTING FIRE HYDRANT
- EXISTING TREE TO REMAIN
- PROPOSED GROUNDCOVER
- PLANT LABEL
- PLANT QUANTITY
- EXISTING CURB AND GUTTER
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- EXISTING TREE LINE
- PROPOSED TREE LINE AFTER CLEARING
- PROPOSED MULCH LINE
- PROPOSED STORM DRAINAGE PIPE

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

NORTH

40 0 20 40 80
SCALE: 1"=40'

benesch
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P 704.521.9880

Seals:

GEORGIA REGISTERED No. 001849 PROFESSIONAL LANDSCAPE ARCHITECT JANET A. ASHBAUGH
4-27-2020

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

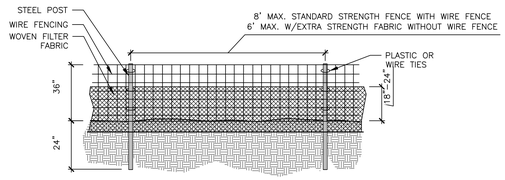
Project No:	17.000291
Date:	01.08.20

Revisions:

1 Per County Comments	01.31.20
2 Per County Comments	03.04.20
3 Per County Comments	04.27.20

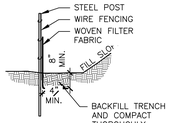
Sheet Title:
Landscape Plan Enlargement- East

Sheet No:
C502



GENERAL NOTES:

1. FILTER FABRIC FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
5. TURN SILT FENCE UP SLOPE AT ENDS.
6. WIRE MESH SHALL BE MIN. 14 GAGE WITH MAXIMUM 6" OPENINGS.
7. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE (WITHIN 5 FT.) WHEN GRADING IS ADJACENT TO SWIM BUFFERS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES).



MAINTENANCE NOTES:

1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

1 High Hazard Temporary Silt Fence

SEEDING MIXTURE

SPECIES	RATE (LB/ACRE)
RYE (GRAIN)	120

SEEDING DATES
MOUNTAINS–AUG. 15 – DEC. 30
COASTAL PLAIN AND PIEDMONT–AUG. 15 – DEC. 30

SOIL AMENDMENTS
FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10–10–10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REPAIR AND RE–FERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF NECESSARY TO EXTENT TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COSTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

SEEDING MIXTURE

SPECIES	RATE (LB/ACRE)
GERMAIN MILLET	40

IN THE PIEDMONT AND MOUNTAINS, A SMALL–STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE.

SEEDING DATES
MOUNTAINS–MAY 15 – AUG. 15
PIEDMONT–MAY 1 – AUG. 15
COASTAL PLAIN–APR. 15 – AUG. 15

SOIL AMENDMENTS
FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10–10–10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER

SEEDING MIXTURE

SPECIES	RATE (LB/ACRE)
RYE (GRAIN)	120
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COSTAL PLAIN, KOREAN IN MOUNTAINS)	50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SEEDING DATES
MOUNTAINS–ABOVE 2500 FEET: FEB. 15 – MAY 15
BELOW 2500 FEET: FEB. 1 – MAY 1
PIEDMONT–JAN. 1 – MAY 1
COASTAL PLAIN–DEC. 1 – APRIL 15

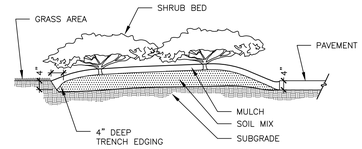
SOIL AMENDMENTS
FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10–10–10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

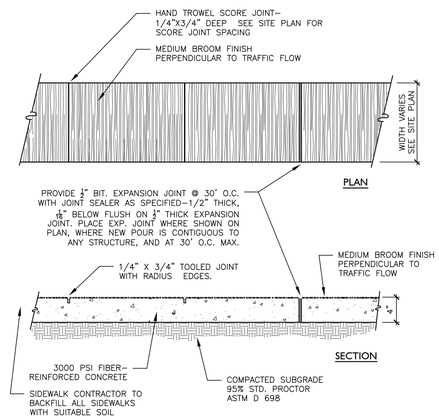
TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

2 Seeding Specifications for Temporary Erosion Control

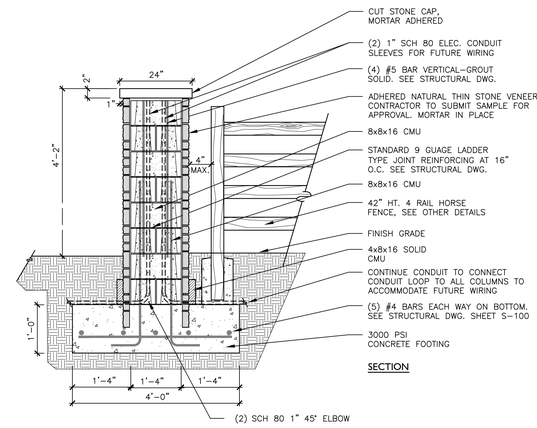


SECTION

3 Trench Edging Detail
N.T.S.



4 Concrete Sidewalk Detail
N.T.S.



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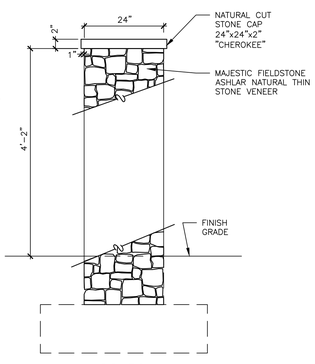


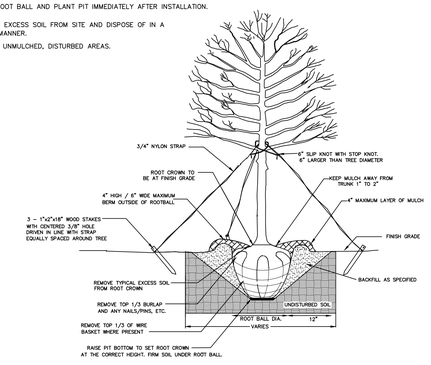
ELEVATION

STONE SUPPLIER: MARSHALL STONE OR APPROVED EQUAL, 336–996–4918

5 Stone Column Detail
INCLUDE IN ALTERNATE NO. 2

NOTES:

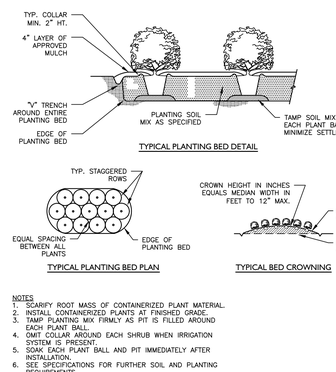
1. REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
2. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
3. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
4. RESEED UNMULCHED, DISTURBED AREAS.



ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1–2004)

FOR EXAMPLE: CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH
2"	12–14'	16'	24"	16"
3"	14–16'	18'	32"	21"

6 Tree Planting Detail
N.T.S.



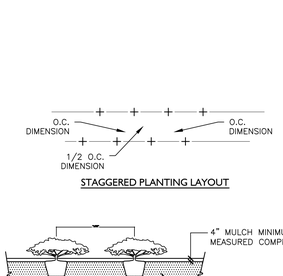
TYPICAL PLANTING BED DETAIL

TYPICAL PLANTING BED PLAN

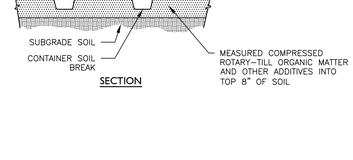
TYPICAL BED CROWNING

NOTES
1. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL.
2. INSTALL CONTAINERIZED PLANTS AT FINISHED GRADE.
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
5. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.
6. SEE SPECIFICATIONS FOR FURTHER SOIL AND PLANTING REQUIREMENTS.

7 Shrub Planting Detail
N.T.S.



STAGGERED PLANTING LAYOUT



SECTION

8 Groundcover Planting Detail
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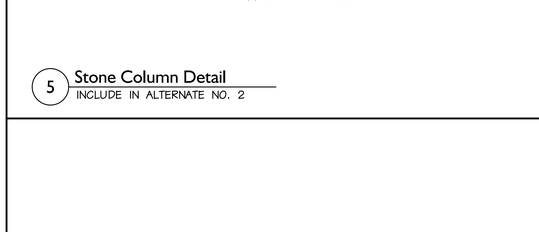
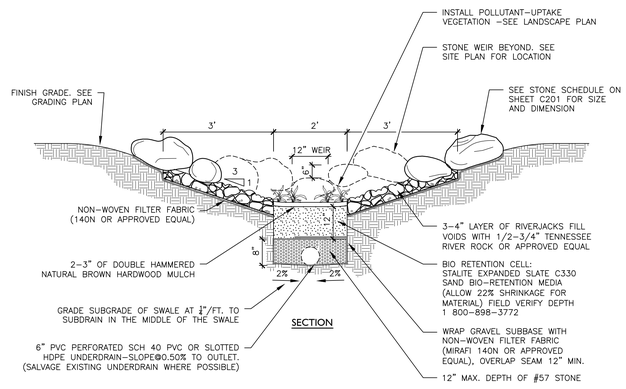


SECTION

9 River Rock Channel With Boulders
N.T.S.



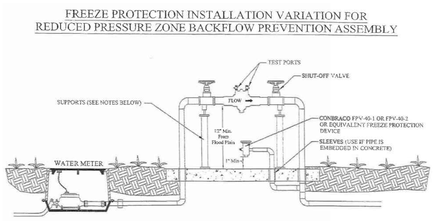
SECTION

NOTES

1. THE SURFACE OF THE BIORETENTION SHALL BE LEVEL AND FLAT. THE DEPTH OF MEDIA SHALL BE UNIFORM THROUGHOUT TO THE DEPTH INDICATED IN THE SECTION ABOVE.
2. AVOID DISTURBING THE PROPOSED BIORETENTION CELL AREA AFTER THE INITIAL ROUGH GRADING AND TEMPORARY STABILIZATION HAS BEEN PERFORMED.
3. EXCAVATE THE BIORETENTION CELL TO THE DESIGN DIMENSIONS.
4. PROTECTION OF THE BIORETENTION CELL(S) DURING AND AFTER CONSTRUCTION ARE VERY IMPORTANT TO THE WORKING FUNCTION OF THE BMP FACILITY. CONTRACTOR SHALL AT ALL TIMES PROTECT THE FILTER MEDIA MATERIAL FROM CONTAMINATION OF CLAY SOILS, SILTS AND ANY OTHER CONTAMINANTS THAT MAY REDUCE THE PERCOLATION RATE OF THE MEDIA. FAILURE TO PROVIDE ADEQUATE PROTECTION MAY RESULT IN A NON–FUNCTIONING BMP AND MAY NEED TO BE REPLACED AT THE CONTRACTORS EXPENSE.
5. UNDERDRAIN SYSTEMS SHALL BE SCHEDULE 40 PVC, WITH A MINIMUM OF 4 ROWS OF PERFORATION PROVIDED AROUND THE DIAMETER OF THE PIPE PLACED 6" ON CENTER WITHIN EACH ROW OF THE ENTIRE LENGTH OF THE DRAINAGE LATERAL. PERFORATIONS SHALL BE ⅜" IN DIAMETER
6. #57 WASHED STONE SHALL COVER OVER UNDERDRAINS AND SHALL BE AT LEAST 3" IN DEPTH
7. CONTRACTOR SHALL PROVIDE ADDITIONAL #57 WASHED STONE AS NEEDED TO PROVIDE POSITIVE DRAINAGE ALONG BOTTOM OF CELL
8. FILTER FABRIC MUST MEET A MINIMUM PERMEABILITY RATE OF 75 GALLONS/MINUTE/SQUARE FOOT AND SHALL NOT IMPEDE THE INFILTRATION RATE OF THE SOIL MEDIUM. NON–WOVEN FABRIC IS PREFERRED OVER WOVEN AND INSTALLATION REQUIRES AT LEAST 1 FOOT OVERLAP AT THE ENDS AND STAKING IN PLACE DURING CONSTRUCTION AT THE TURNED SURFACES.
9. THE SOIL MIXTURE FOR USE IN A BIORETENTION FACILITY SHALL HAVE A PERMEABILITY (K) RATING FROM 2 INCHES/HOUR TO 4 INCHES/HOUR AS MEASURED IN THE FIELD. SOIL MEDIA SHALL BE TESTED AND CERTIFIED AT CONTRACTOR'S EXPENSE PRIOR TO INSTALLATION.
10. SOIL MEDIA TEST RESULTS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL. SOIL MEDIA TESTING METHODS ARE AS FOLLOWS:
11. MAINTENANCE AND FUNCTION OF STRUCTURE IS THE FULL RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE.
12. UPON FINAL ACCEPTANCE OF STRUCTURE, OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE PER THE MAINTENANCE AGREEMENT

10 Enhanced Swale
N.T.S.

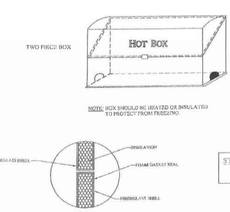
FREEZE PROTECTION INSTALLATION VARIATION FOR REDUCED PRESSURE ZONE BACKFLOW PREVENTION ASSEMBLY



NOTES
THE COVER FOR THE ABOVE GROUND RPZ INSTALLATION CAN BE PLACED ON A FULL CONCRETE SLAB OR A PERIMETER FOOTER AS INDICATED IN CURRENT SPECIFICATIONS. FULL SLAB IS SHOWN IN THIS DIAGRAM. SUPPORTS SHOULD BE USED IF PVC PIPING IS USED AND PLACED AS SHOWN.

REDUCED PRESSURE ZONE ASSEMBLY INSTALLATION

ENCLOSURE: HOT BOX ® OR EQUIVALENT BOX, SIZED TO ASSEMBLY SIZE ¾" TO 2".



STANDARD COLORS

BODY	LID
BEIGE	BEIGE

PHYSICAL PROPERTIES

MODEL NO.	G.P.M.	APPROX. DEPTH	APPROX. WIDTH	APPROX. WEIGHT	INSULATION "R" VALUE	DRAINAGE CAPACITY
75	50"- 1"	15"	19"	11"	8.0	180 G.P.M.
1	70"- 1"	15"	24"	15"	8.0	180 G.P.M.
1.5	5"- 1½"	19"	29"	21"	8.0	300 G.P.M.
2	10"- 2"	19"	30"	25"	8.0	300 G.P.M.

MATERIAL

Fiberglass construction, drainage capacity (ASTM devised), engineered heater sizing (consult an for -30°F), testing / maintenance, ground anchor capabilities and lockable lid

10 Reduced Pressure Zone Backflow Prevention Assembly
N.T.S.

NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.

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Alfred Benesch & Company
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Charlotte, North Carolina 28208
www.benesch.com
P 704.521.9880

Seals:

GEORGIA REGISTERED No. 001849 PROFESSIONAL LANDSCAPE ARCHITECT JOSEPH A. ASHBAUGH
4-27-2020

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road, 3055 Caney Road
Forsyth County

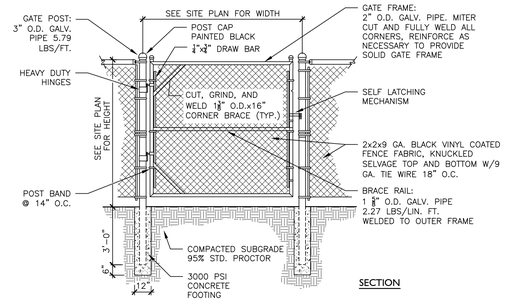
Project No:	17.000291
Date:	01.08.20
Revisions:	
1 Per County Comments	01.31.20
2 Per County Comments	03.04.20
3 Per County Comments	04.27.20

Sheet Title:

Site Construction Details

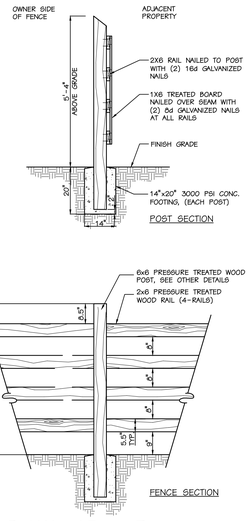
Sheet No:

C600

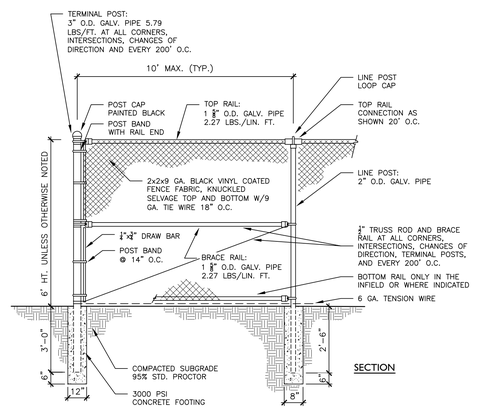


NOTES
1. POSTS, RAILS AND FITTINGS SHALL BE HOT DIP GALVANIZED, THEN FIELD PAINTED, 2 COATS OF BLACK ENAMEL AFTER INSTALLATION, PRIOR TO INSTALLING FENCE FABRIC.
2. GATE SHALL BE COMPLETE WITH BALL AND SOCKET HINGES OR APPROVED EQUAL.
3. ALL GATES SHALL BE DOUBLE ACTING.
4. SEE SPECIFICATIONS FOR FURTHER MATERIAL AND INSTALLATION REQUIREMENTS.

1 Pedestrian Gate for Chain Link Fence
N.T.S.



2 Painted 4-Rail Wood Fence Detail
(Note: Paint all Wood Members Brown using Recycled Motor oil)
(N.I.C.-PROVIDED AND INSTALLED BY OWNER'S SEPARATE CONTRACTOR)



NOTES
1. POSTS, RAILS AND FITTINGS SHALL BE HOT DIP GALVANIZED, THEN FIELD PAINTED, 2 COATS OF BLACK ENAMEL AFTER INSTALLATION, PRIOR TO INSTALLING FENCE FABRIC.
2. SEE SPECIFICATIONS FOR FURTHER MATERIAL AND INSTALLATION REQUIREMENTS.
3. CONTRACTOR TO EMBED FENCE IN BOTTOM AND SIDES OF DITCHES TO ENCLOSE DITCH SECTION.

3 Vinyl Coated Chain Link Fence Detail
N.T.S.

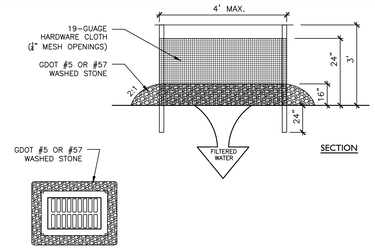


FIGURE 6.51A HARDWARE CLOTH AND GRAVEL INLET PROTECTION PLAN

CONSTRUCTION SPECIFICATIONS

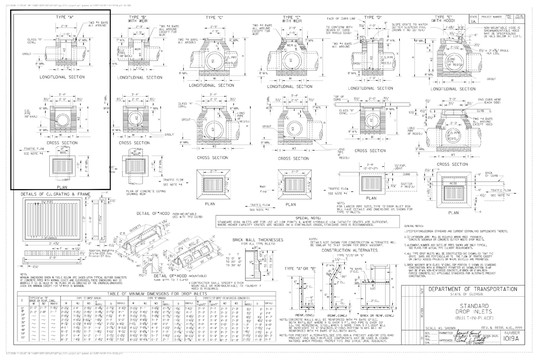
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING INLET.
2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POST EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (GDOT#5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUNDCOVER.

MAINTENANCE

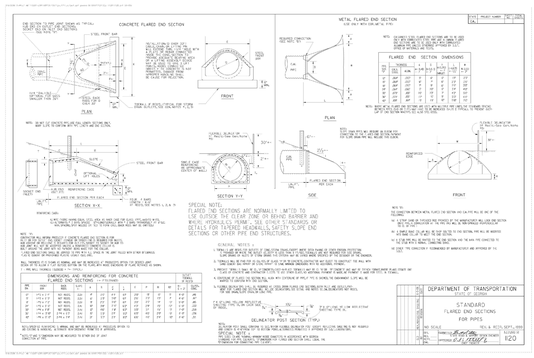
INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

4 Hardware Cloth and Gravel Inlet Protection
NTS

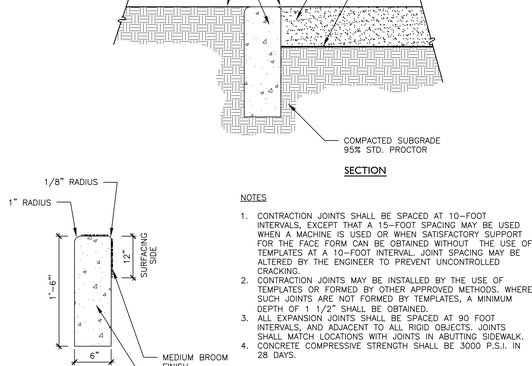
USE TYPE "A"



5 Drop Inlet Detail
N.T.S.

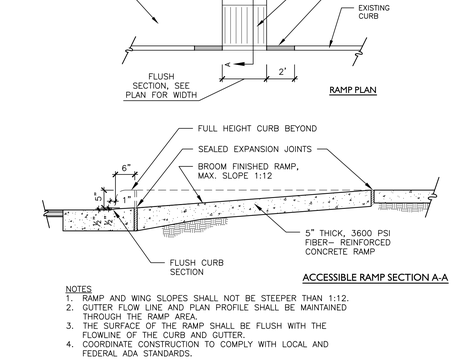


6 Riprap Outlet Protection
NTS



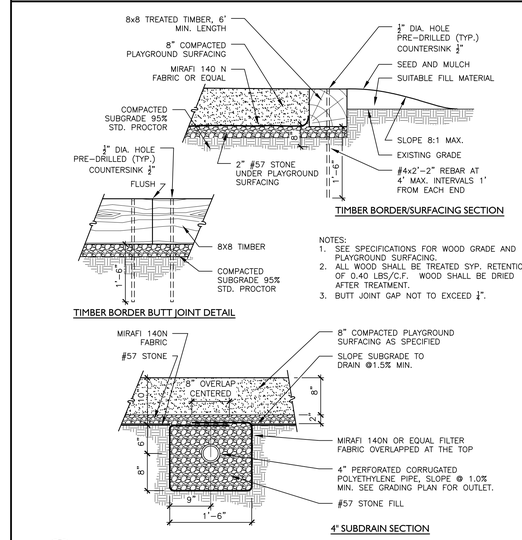
NOTES
1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS, EXCEPT THAT A 15-FOOT SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT A 10-FOOT INTERVAL. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 P.S.I. IN 28 DAYS.

7 Vertical Curb Detail
N.T.S. (INCLUDE IN ALTERNATE NO. 1)



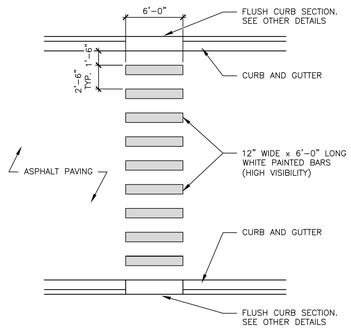
NOTES
1. RAMP AND WING SLOPES SHALL NOT BE STEEPER THAN 1:12.
2. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA.
3. THE SURFACE OF THE RAMP SHALL BE FLUSH WITH THE FLOWLINE OF THE CURB AND GUTTER.
4. COORDINATE CONSTRUCTION TO COMPLY WITH LOCAL AND FEDERAL ADA STANDARDS.

8 Accessible Ramp
N.T.S.



NOTES:
1. SEE SPECIFICATIONS FOR WOOD GRADE AND PLAYGROUND SURFACING.
2. ALL WOOD SHALL BE TREATED SYP. RETENTION OF 0.40 LBS/C.F. WOOD SHALL BE DRIED AFTER TREATMENT.
3. BUTT JOINT GAP NOT TO EXCEED ¼".

9 Timber Border/ Surfacing/Drainage Detail
INCLUDE IN ALTERNATE NO. 1



10 Painted Crosswalk
N.T.S.

11 Pedestrian-Actuated Warning System for Crosswalks
NOTE: FIELD CONFIRM LOCATION PRIOR TO INSTALLATION.

12 Accessible Ramp
N.T.S.

benesch
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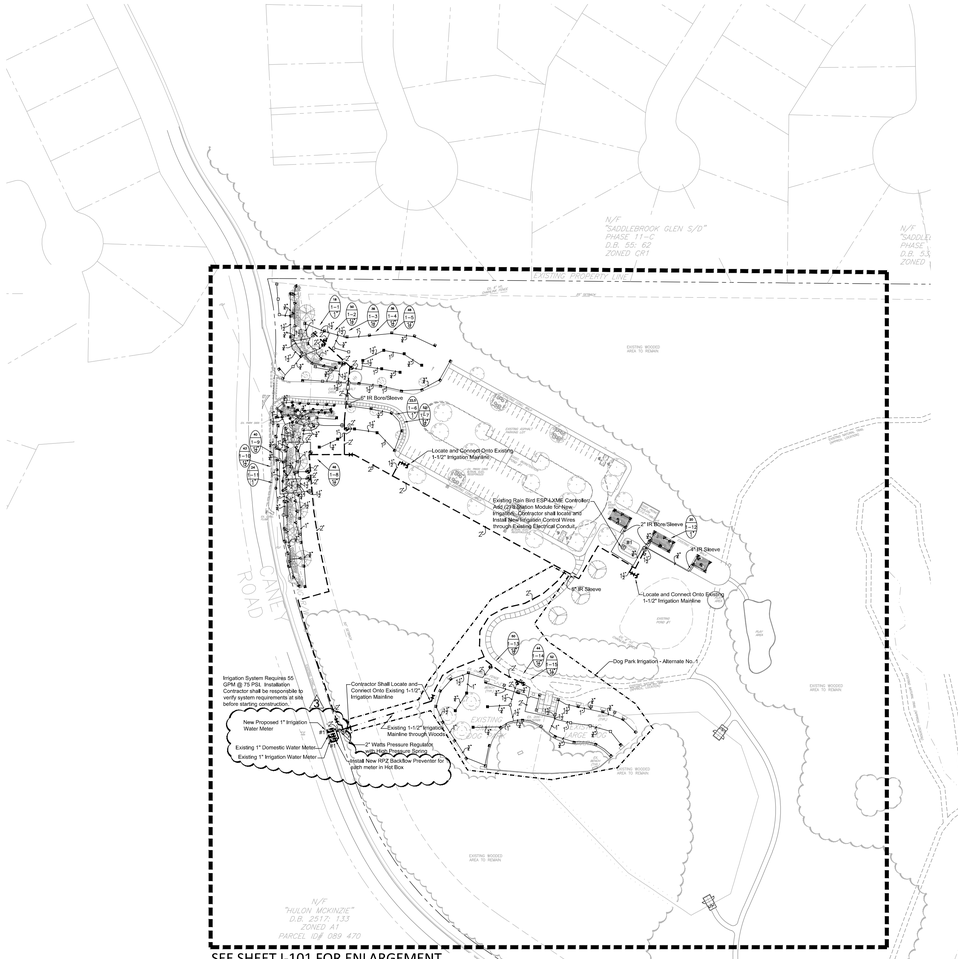
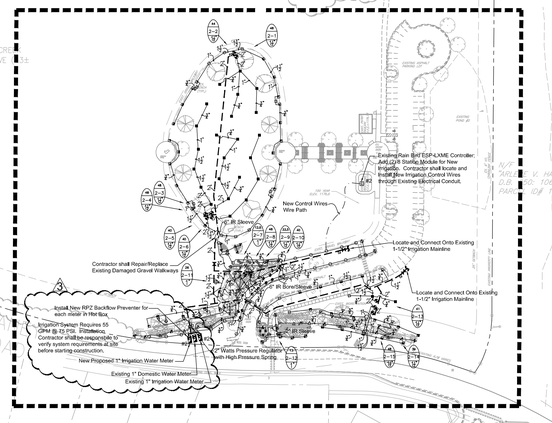
NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.



SEE SHEET I-101 FOR ENLARGEMENT

SEE SHEET I-102 FOR ENLARGEMENT



UTILITY NOTE:
REFER TO UTILITY PLANS FOR MORE SPECIFICS RELATED TO IRRIGATION WATER METER TAPS, COPPER LINE RUNNING FROM TAPS TO PROPOSED METERS AND ACTUAL PROPOSED METER LOCATIONS.

NOTE:
IRRIGATION SYSTEMS ARE PROHIBITED ON ALL EXISTING AND PROPOSED COUNTRY RIGHT-OF-WAY AND CONSIDERED TO BE A VIOLATION OF THE COUNTY'S ORDINANCE PROHIBITING UNPERMITTED RIGHT-OF-WAY ENCROACHMENTS.

GENERAL NOTES

1. ALL MAINLINES TO HAVE A MINIMUM OF 18" OF COVER. (CLASS 200 PVC PIPE).
2. ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER. (CLASS 200 PVC PIPE).
3. NO ROCKS, BOULDER, OR OTHER EXTRANEOUS MATERIALS TO BE USED IN BACKFILLING OF TRENCH.
4. ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.
5. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
6. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
7. SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
8. ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS SHOWN ON DETAILS.
9. ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.
10. NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
11. ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PRECEEDING WITH THE WORK.
12. ALL 24 VOLT WIRE SHALL BE #12 UF/UL FOR COMMON WIRE, AND #14 UF/UL FOR CONTROL WIRES, DIRECT BURIAL, SOLID COPPER.
13. CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
14. CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING, i.e. VERIFY ROOT BALL SIZE FOR PLANTING.
15. CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
16. CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
17. ALL SPRINKLERS TO BE MOUNTED ON SWING JOINTS - REFER TO DETAILS.
18. CONTRACTOR SHALL UTILIZE VALVE I.D. TAGS ON ALL REMOTE CONTROL VALVES.
19. 24 VOLT WIRE SHALL BE COLOR CODED; COMMON-WHITE, CONTROL-RED.
20. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH (2) 5/8" COPPER CLAD GROUND RODS.
21. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON FAULT GROUND AND LIGHTNING PROTECTION.
22. CONTROLLER GROUNDING MUST BE AS PER ASIC REQUIREMENTS
23. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER:
    A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVE SUPPLIED.
    B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS.
    C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
24. SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING ELECTRIC VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND WITHIN PROPERTY BOUNDARIES. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
25. CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR PROPER COVERAGE.
26. CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 12" FROM FOUNDATIONS. ALSO INSTALL SPRINKLERS 4" FROM CURB OR WALKS.
27. PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM PLANS AND SPECIFICATIONS.
28. IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE CROSS MEASURED AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN AUTOCAD 2017 FORMAT BEFORE FINAL ACCEPTANCE.
29. A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY.
30. PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODE OR ORDINANCE DISCREPANCIES. IF CONTRACTOR DOES NOT COMPLY TO THIS NOTIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSTALLATION CHANGE AND REDESIGN COSTS FOR NON-COMPLIANCE.
31. UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE 2 PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF TEST.
    A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE
    B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE
32. IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"X11" LAMINATED SHEET(S). TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).

CONTRACTOR INSTALLATION NOTES:
1. CONTRACTOR SHALL LOCATE AND REPAIR IRRIGATION THAT IS NOT IMPACTED BY THE NEW INSTALLATION; ASSUME TO ADD $2,000.00 TO A LINE ITEM OF YOUR BID FOR EACH PARK AREA.
2. CONTRACTOR SHALL TURN OFF AND CAP EXISTING IRRIGATION THAT FORSYTH COUNTY PARKS DESIGNATES AS NOT BEING UTILIZED

NOTE:
NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE CONSTRUCTION. (770) 781-2165.

IRRIGATION LEGEND

#1,#2	NEW PROPOSED 1" IRRIGATION WATER METER INSTALLED NEXT TO EXISTING 1" DOMESTIC WATER METER (NOT FOR IRRIGATION) AND EXISTING 1" IRRIGATION WATER METER (TO BE USED FOR IRRIGATION). EACH SYSTEM REQUIRES 55 GPM @ 75 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION.
	MANUAL DRAIN VALVE. SCH 80 PVC TRUE UNION BALL VALVE. DETAIL-E.
#1a,#1b,#2a,#2b	WATTS #909-M1-QT-1". 1" REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER IN HOT BOX. DETAIL-F.
#1,#2	WINTERIZATION ASSEMBLY. DETAIL-M.
#1,#2 C	EXISTING RAIN BIRD LXME CONTROLLER(S): INSTALLATION CONTRACTOR SHALL ADD (2) 8 STATION EXPANSION MODULE TO EACH CONTROLLER. INSTALLATION CONTRACTOR SHALL ENSURE THAT EACH CONTROLLER HAS A RAIN/FREEZE SENSOR.
#1,#2 P	2" IRRIGATION PRESSURE REDUCING VALVE. WATTS U5B-Z3-HP. WITH HIGH TENSION SPRING, FOR OPERATION BETWEEN 70 AND 100 PSI. DETAIL-J.
	RAIN BIRD 150-PEB-PRS PLASTIC ELECTRIC REMOTE CONTROL VALVE, 11/2" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES, DETAIL-A.
	RAIN BIRD 100-PEB-PRS PLASTIC ELECTRIC REMOTE CONTROL VALVE, 1" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES, DETAIL-A.
	RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 12' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" LAWN POP-UP SIDE STRIP SPRAY SPRINKLER, 9' X 18' RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" LAWN SIDE STRIP SPRAY SPRINKLER, 4' X 30' RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" LAWN END STRIP SPRAY SPRINKLER, 4' X 15' RADIUS, 1.0 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, THREE QUARTER-3.0 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 12' RADIUS, FULL-2.0 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SIDE STRIP SPRAY SPRINKLER, 9' X 18' RADIUS, 1.5 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SIDE STRIP SPRAY SPRINKLER, 4' X 30' RADIUS, 1.5 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB END STRIP SPRAY SPRINKLER, 4' X 15' RADIUS, 1.0 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1806-SAM WITH 1404 BUBBLER NOZZLE AND PA-80 ADAPTER, 6" POP-UP TREE BUBBLER, 1.0 GPM, DETAIL-C.
	HUNTER I-20-06-SS LAWN ROTOR WITH STAINLESS STEEL RISERS, 40' RADIUS, FULL-8.0 GPM, HALF-4.0 GPM, QUARTER-2.0 GPM, 45 PSI, DETAIL-B.
	HUNTER I-20-06-SS LAWN ROTOR WITH STAINLESS STEEL RISERS, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 45 PSI, DETAIL-B.
	HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-C.
	HUNTER INDUSTRIES MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 20' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 40 PSI, DETAIL-C.
	HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD 1812-SAM SPRINKLER IN BED AREAS, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-D.
	HUNTER INDUSTRIES MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD 1812-SAM SPRINKLER IN BED AREA, 20' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 40 PSI, DETAIL-D.
	RAIN BIRD #5 QUICK COUPLING VALVE 1" SIZE. CONTRACTOR TO SUPPLY TWO QCV KEYS AND MATCHING HOSE SWIVELS. DETAIL-K.
	SCH 80 PVC TRUE UNION BALL VALVE, SIZED SAME AS MAINLINE, MOUNTED IN CARSON VALVE BOX, DETAIL-L.
	MAINLINE PIPE: 2" SIZE IF NOT NOTED, CLASS 200 PVC SOLVENT WELD PIPE UTILIZING SCH 40 PVC SOLVENT WELD FITTINGS.
	IRRIGATION SLEEVE: CLASS 200 PVC, SIZE NOTED ON PLAN. DETAIL-H.
	LATERAL LINE PIPE: CLASS 200 PVC SOLVENT WELD PIPE UTILIZING SCH 40 PVC SOLVENT WELD FITTINGS, SIZE NOTED.
	3" ELECTRICAL CONDUIT SLEEVE.

NOTES:

1. ALL SPRINKLERS WILL BE MOUNTED ON (3) MARLEX STREET ELLS WITH A SCHED. 80 NIPPLE SIZE OF SPRINKLER INLET.
2. CONTRACTOR TO UTILIZE A AUTOMATIC DRAIN CHECK VALVE DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
3. ALL WIRE WILL BE COLOR CODED DIRECT BURIAL UL/UF WIRE: COMMON (WHITE) #12-1, CONTROL (RED) #14-1.
4. ALL PIPING AND WIRING UNDER HARDTOPS WILL BE IN CLASS 200 PVC PIPE SLEEVE.

TYPICAL VALVE INDICATOR

28.5 — GALLONS PER MIN.
10 — STATION NUMBER
1 1/2" — VALVE SIZE

NORTH

100 0 50 100 200
SCALE: 1"=100'

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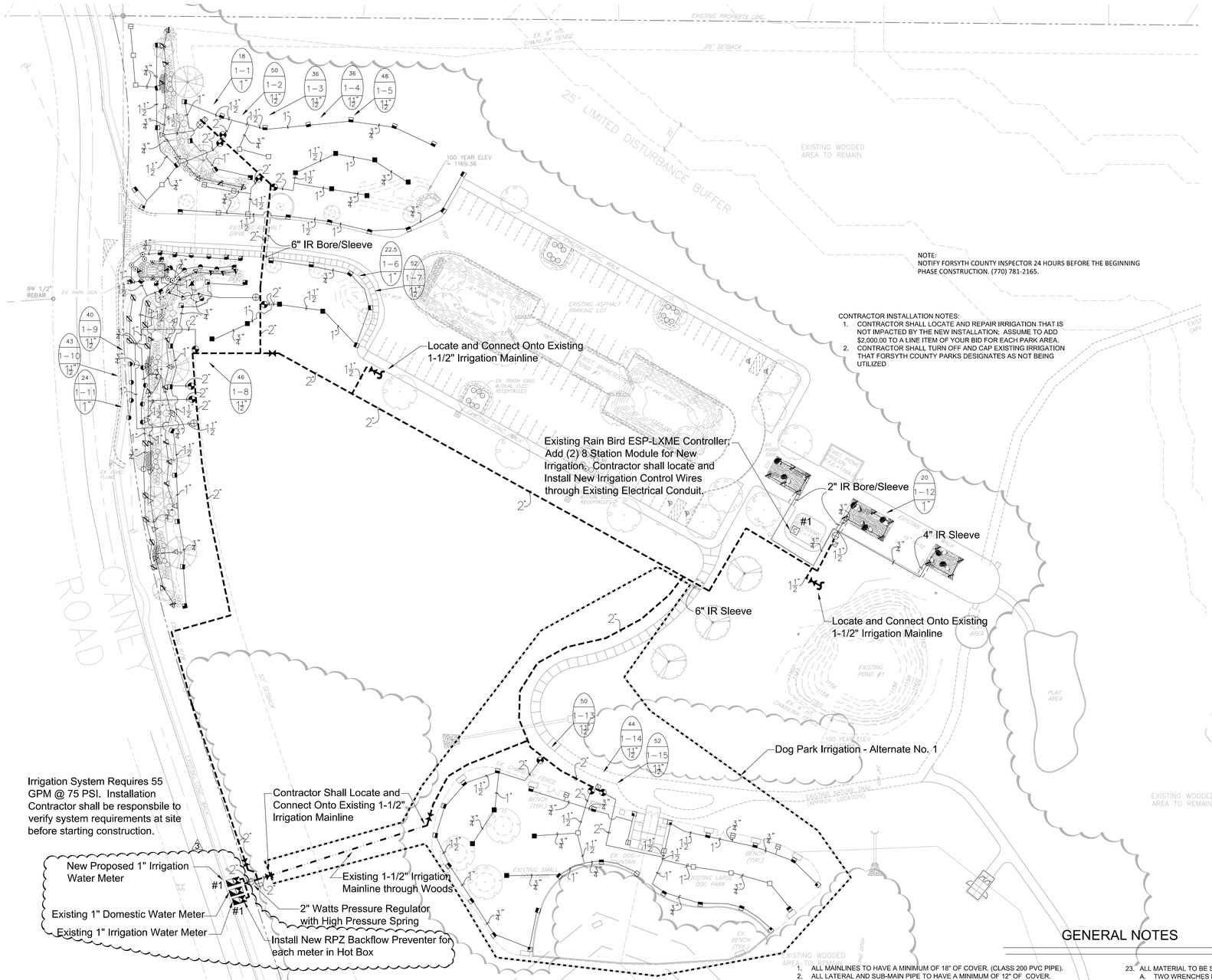
1 Per County Comments 02.12.20
2 Per County Comments 03.05.20
3 Per County Comments 04.27.20

Sheet Title:
Overall Irrigation Plan

Sheet No:
I100



IRRIGATION LEGEND

3 #1,#2	NEW PROPOSED 1" IRRIGATION WATER METER INSTALLED NEXT TO EXISTING 1" DOMESTIC WATER METER (NOT FOR IRRIGATION) AND EXISTING 1" IRRIGATION WATER METER (TO BE USED FOR IRRIGATION). EACH SYSTEM REQUIRES 55 GPM @ 75 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION.
	MANUAL DRAIN VALVE. SCH 80 PVC TRUE UNION BALL VALVE. DETAIL-E.
3 #1a,#1b,#2a,#2b	WATTS #909-M1-QT-1", 1" REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER IN HOT BOX. DETAIL-F.
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#1,#2 C	EXISTING RAIN BIRD LXME CONTROLLER(S): INSTALLATION CONTRACTOR SHALL ADD (2) 8 STATION EXPANSION MODULE TO EACH CONTROLLER. INSTALLATION CONTRACTOR SHALL ENSURE THAT EACH CONTROLLER HAS A RAIN/FREEZE SENSOR.
#1,#2 P	2" IRRIGATION PRESSURE REDUCING VALVE, WATTS U5B-Z3-HP, WITH HIGH TENSION SPRING, FOR OPERATION BETWEEN 70 AND 100 PSI. DETAIL-J.
	RAIN BIRD 150-PEB-PRS PLASTIC ELECTRIC REMOTE CONTROL VALVE, 11/2" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES, DETAIL-A.
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	RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 12' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 30 PSI. DETAIL-C.
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	IRRIGATION SLEEVE: CLASS 200 PVC, SIZE NOTED ON PLAN. DETAIL-H.
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1. ALL SPRINKLERS WILL BE MOUNTED ON (3) MARLEX STREET ELLS WITH A SCHED. 80 NIPPLE SIZE OF SPRINKLER INLET.
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4. ALL PIPING AND WIRING UNDER HARDTOPS WILL BE IN CLASS 200 PVC PIPE SLEEVE.

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13. CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
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    A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE
    B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE
32. IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"X11" LAMINATED SHEET(S). TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).

TYPICAL VALVE INDICATOR

28.5 — GALLONS PER MIN.
10 — STATION NUMBER
1 1/2" — VALVE SIZE

NORTH

SCALE: 1"=40'
40 0 20 40 80

benesch
Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
T 704.521.9880

Seals:

PRELIMINARY NOT FOR CONSTRUCTION

Corp. NC License: F-1320

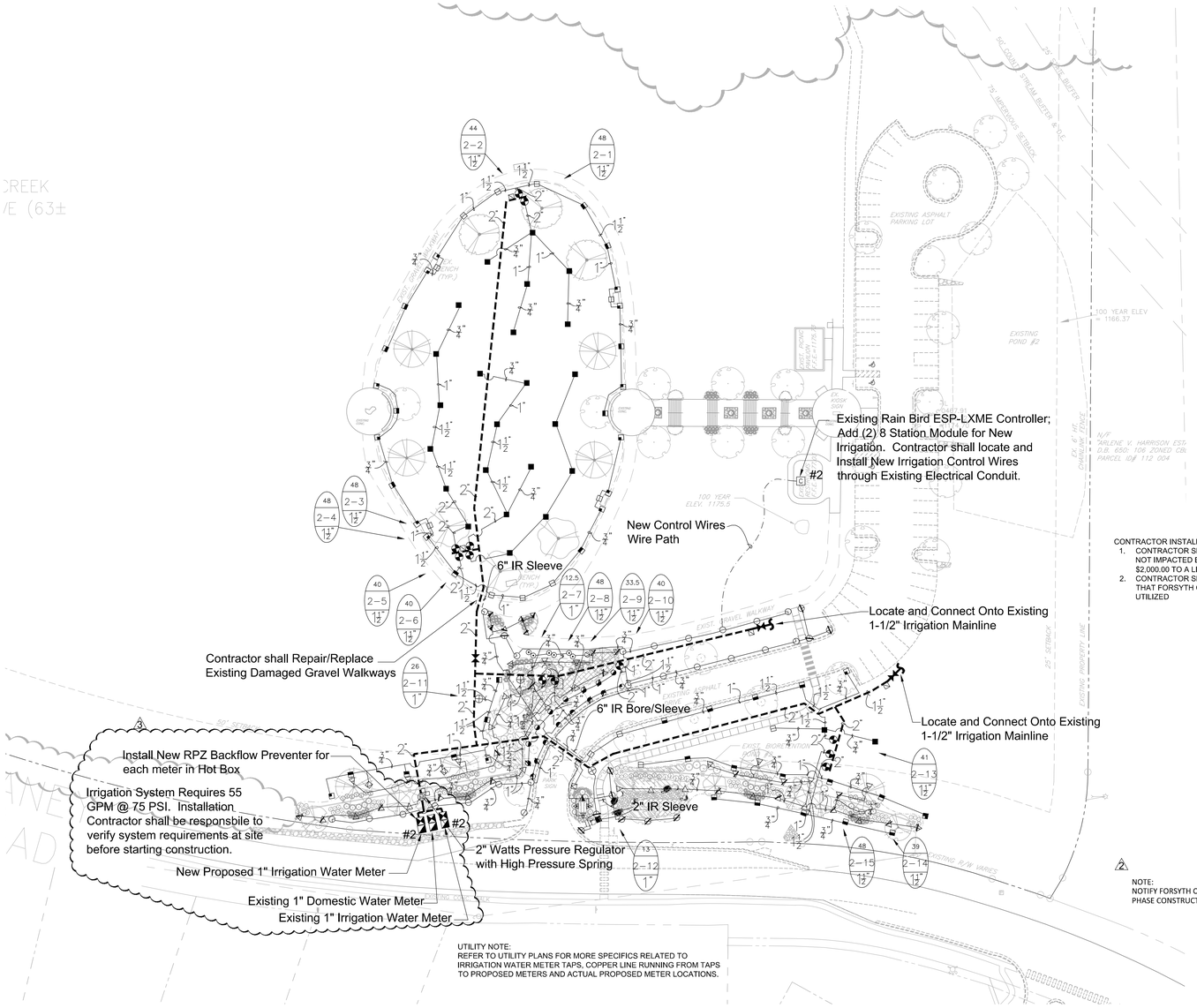
Caney Creek Preserve

2755 Caney Road
Atlanta, Georgia 30005

Project No:	17.000291
Date:	11.15.19
Revisions:	
1 Per County Comments	02.12.20
2 Per County Comments	03.05.20
3 Per County Comments	04.27.20

Sheet Title:
Irrigation Plan Enlargement- West

Sheet No:
I101



CONTRACTOR INSTALLATION NOTES:
1. CONTRACTOR SHALL LOCATE AND REPAIR IRRIGATION THAT IS NOT IMPACTED BY THE NEW INSTALLATION; ASSUME TO ADD $2,000.00 TO A LINE ITEM OF YOUR BID FOR EACH PARK AREA.
2. CONTRACTOR SHALL TURN OFF AND CAP EXISTING IRRIGATION THAT FORSYTH COUNTY PARKS DESIGNATES AS NOT BEING UTILIZED

NOTE:
NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE CONSTRUCTION. (770) 781-2165.

UTILITY NOTE:
REFER TO UTILITY PLANS FOR MORE SPECIFICS RELATED TO IRRIGATION WATER METER TAPS, COPPER LINE RUNNING FROM TAPS TO PROPOSED METERS AND ACTUAL PROPOSED METER LOCATIONS.

NOTE:
IRRIGATION SYSTEMS ARE PROHIBITED ON ALL EXISTING AND PROPOSED COUNTRY RIGHT-OF-WAY AND CONSIDERED TO BE A VIOLATION OF THE COUNTY'S ORDINANCE PROHIBITING UNPERMITTED RIGHT-OF-WAY ENCROACHMENTS.

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32. IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"X11" LAMINATED SHEET(S), TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).

TYPICAL VALVE INDICATOR

28.5 — GALLONS PER MIN.
10 — STATION NUMBER
1 1/2" — VALVE SIZE

NORTH

40 0 20 40 80
SCALE: 1"=40'

benesch
Alfred Benesch & Company
2359 Perimeter Parkway, Suite 350
Charlotte, NC 28208
www.benesch.com
T 704.521.9880

Seals:

PRELIMINARY NOT FOR CONSTRUCTION

Corp. NC License: F-1320

Caney Creek Preserve

2755 Caney Road
Atlanta, Georgia 30005

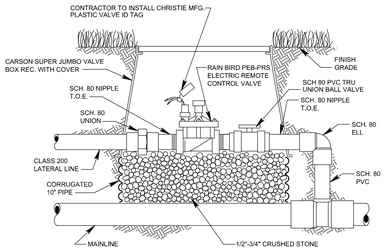
HS
5

Project No:	17.000291
Date:	11.15.19
Revisions:	
1 Per County Comments	02.12.20
2 Per County Comments	03.05.20
3 Per County Comments	04.27.20

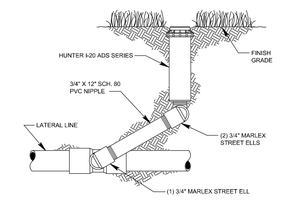
Sheet Title:
Irrigation Plan Enlargement-East

Sheet No:
I102

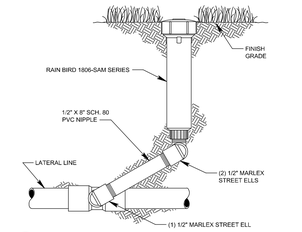
NOTE:
NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE CONSTRUCTION. (770) 781-2165.



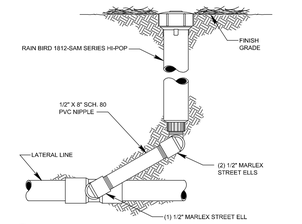
A CONTROL VALVE
NTS



B LAWN ROTOR
NTS



C LAWN SPRAY
NTS



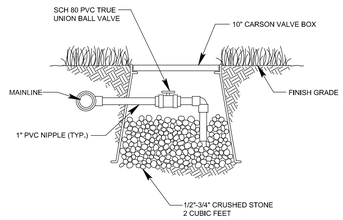
D SHRUB SPRAY
NTS

IRRIGATION LEGEND

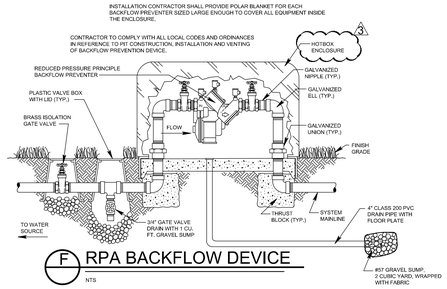
3 #1,#2	NEW PROPOSED 1" IRRIGATION WATER METER INSTALLED NEXT TO EXISTING 1" DOMESTIC WATER METER (NOT FOR IRRIGATION) AND EXISTING 1" IRRIGATION WATER METER (TO BE USED FOR IRRIGATION). EACH SYSTEM REQUIRES 55 GPM @ 75 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION.
#1,#2	MANUAL DRAIN VALVE. SCH 80 PVC TRUE UNION BALL VALVE. DETAIL-E.
3 #1a,#1b,#2a,#2b	WATTS #909-M1-QT-1", 1" REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER IN HOT BOX. DETAIL-F.
#1,#2	WINTERIZATION ASSEMBLY. DETAIL-M.
#1,#2 C	EXISTING RAIN BIRD LXME CONTROLLER(S): INSTALLATION CONTRACTOR SHALL ADD (2) 8 STATION EXPANSION MODULE TO EACH CONTROLLER. INSTALLATION CONTRACTOR SHALL ENSURE THAT EACH CONTROLLER HAS A RAIN/FREEZE SENSOR.
#1,#2 P	2" IRRIGATION PRESSURE REDUCING VALVE, WATTS U5B-Z3-HP, WITH HIGH TENSION SPRING, FOR OPERATION BETWEEN 70 AND 100 PSI. DETAIL-J.
	RAIN BIRD 150-PEB-PRS PLASTIC ELECTRIC REMOTE CONTROL VALVE, 11/2" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES, DETAIL-A.
	RAIN BIRD 100-PEB-PRS PLASTIC ELECTRIC REMOTE CONTROL VALVE, 1" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES, DETAIL-A.
	RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 12' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" LAWN POP-UP SIDE STRIP SPRAY SPRINKLER, 9' X 18' RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" LAWN SIDE STRIP SPRAY SPRINKLER, 4' X 30' RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" LAWN END STRIP SPRAY SPRINKLER, 4' X 15' RADIUS, 1.0 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, THREE QUARTER-3.0 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 12' RADIUS, FULL-2.0 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SIDE STRIP SPRAY SPRINKLER, 9' X 18' RADIUS, 1.5 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SIDE STRIP SPRAY SPRINKLER, 4' X 30' RADIUS, 1.5 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1812-SAM, 12" HI-POP SHRUB END STRIP SPRAY SPRINKLER, 4' X 15' RADIUS, 1.0 GPM, 30 PSI. DETAIL-D.
	RAIN BIRD 1806-SAM WITH 1404 BUBBLER NOZZLE AND PA-80 ADAPTER, 6" POP-UP TREE BUBBLER, 1.0 GPM, DETAIL-C.
	HUNTER I-20-06-SS LAWN ROTOR WITH STAINLESS STEEL RISERS, 40' RADIUS, FULL-8.0 GPM, HALF-4.0 GPM, QUARTER-2.0 GPM, 45 PSI, DETAIL-B.
	HUNTER I-20-06-SS LAWN ROTOR WITH STAINLESS STEEL RISERS, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 45 PSI, DETAIL-B.
	HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-C.
	HUNTER INDUSTRIES MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 20' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 40 PSI, DETAIL-C.
	HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD 1812-SAM SPRINKLER IN BED AREAS, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-D.
	HUNTER INDUSTRIES MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD 1812-SAM SPRINKLER IN BED AREA, 20' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 40 PSI, DETAIL-D.
	RAIN BIRD #5 QUICK COUPLING VALVE 1" SIZE. CONTRACTOR TO SUPPLY TWO QCV KEYS AND MATCHING HOSE SWIVELS. DETAIL-K.
	SCH 80 PVC TRUE UNION BALL VALVE, SIZED SAME AS MAINLINE, MOUNTED IN CARSON VALVE BOX, DETAIL-L.
	MAINLINE PIPE: 2" SIZE IF NOT NOTED, CLASS 200 PVC SOLVENT WELD PIPE UTILIZING SCH 40 PVC SOLVENT WELD FITTINGS.
	IRRIGATION SLEEVE: CLASS 200 PVC, SIZE NOTED ON PLAN. DETAIL-H.
	LATERAL LINE PIPE: CLASS 200 PVC SOLVENT WELD PIPE UTILIZING SCH 40 PVC SOLVENT WELD FITTINGS, SIZE NOTED.
	3" ELECTRICAL CONDUIT SLEEVE.

NOTES:

1. ALL SPRINKLERS WILL BE MOUNTED ON (3) MARLEX STREET ELLS WITH A SCHED. 80 NIPPLE SIZE OF SPRINKLER INLET.
2. CONTRACTOR TO UTILIZE A AUTOMATIC DRAIN CHECK VALVE DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
3. ALL WIRE WILL BE COLOR CODED DIRECT BURIAL UL/UF WIRE: COMMON (WHITE) #12-1, CONTROL (RED) #14-1.
4. ALL PIPING AND WIRING UNDER HARDTOPS WILL BE IN CLASS 200 PVC PIPE SLEEVE.

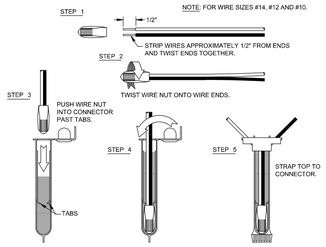


E MANUAL DRAIN VALVE
NTS

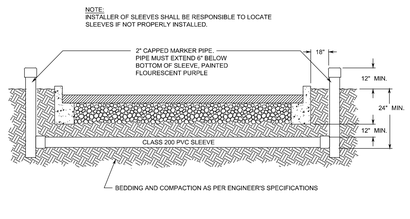


F RPA BACKFLOW DEVICE
NTS

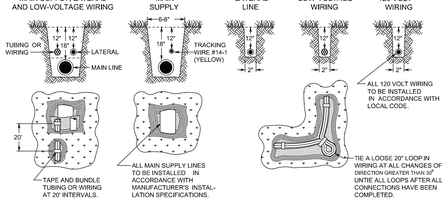
✳ IRRIGATION CONTACTOR SHALL SUBMIT BACKFLOW DETAIL TO LOCAL AUTHORITIES FOR APPROVAL BEFORE STARTING CONSTRUCTION.



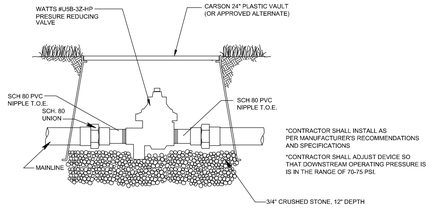
G WIRE CONNECTION
NTS
3M-DBR/Y-6



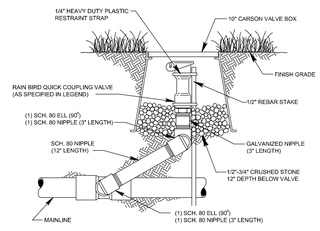
H SLEEVING
NTS



I TRENCHING
NTS



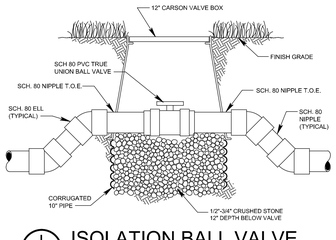
J PRESSURE REDUCING VALVE
NTS



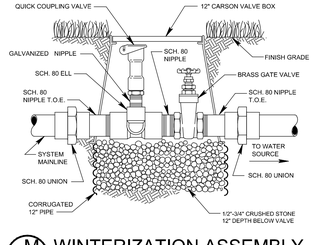
K QUICK COUPLING VALVE
NTS

GENERAL NOTES

1. ALL MAINLINES TO HAVE A MINIMUM OF 18" OF COVER. (CLASS 200 PVC PIPE).
2. ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER. (CLASS 200 PVC PIPE).
3. NO ROCKS, BOULDER, OR OTHER EXTRANEOUS MATERIALS TO BE USED IN BACKFILLING OF TRENCH.
4. ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.
5. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
6. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
7. SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
8. ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS SHOWN ON DETAILS.
9. ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.
10. NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
11. ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PRECEEDING WITH THE WORK.
12. ALL 24 VOLT WIRE SHALL BE #12 UF/UL FOR COMMON WIRE, AND #14 UF/UL FOR CONTROL WIRES, DIRECT BURIAL, SOLID COPPER.
13. CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
14. CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING, I.e. VERIFY ROOT BALL SIZE FOR PLANTING.
15. CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
16. CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
17. ALL SPRINKLERS TO BE MOUNTED ON SWING JOINTS - REFER TO DETAILS.
18. CONTRACTOR SHALL UTILIZE VALVE I.D. TAGS ON ALL REMOTE CONTROL VALVES.
19. 24 VOLT WIRE SHALL BE COLOR CODED; COMMON-WHITE, CONTROL-RED.
20. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH (2) 5/8" COPPER CLAD GROUND RODS.
21. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON FAULT GROUND AND LIGHTNING PROTECTION.
22. CONTROLLER GROUNDING MUST BE AS PER ASIC REQUIREMENTS
23. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER:
    A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVE SUPPLIED.
    B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS.
    C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
24. SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING ELECTRIC VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND WITHIN PROPERTY BOUNDARIES. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
25. CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR PROPER COVERAGE.
26. CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 12" FROM FOUNDATIONS. ALSO INSTALL SPRINKLERS 4" FROM CURB OR WALKS.
27. PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM PLANS AND SPECIFICATIONS.
28. IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE CROSS MEASURED AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN AUTOCAD 2017 FORMAT BEFORE FINAL ACCEPTANCE.
29. A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY.
30. PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODE OR ORDINANCE DISCREPANCIES. IF CONTRACTOR DOES NOT COMPLY TO THIS NOTIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSTALLATION CHANGE AND REDESIGN COSTS FOR NON-COMPLIANCE.
31. UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE 2 PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF TEST.
    A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE
    B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE
32. IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"X11" LAMINATED SHEET(S), TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).



L ISOLATION BALL VALVE
NTS



M WINTERIZATION ASSEMBLY
NTS

TYPICAL VALVE INDICATOR

28.5 GALLONS PER MIN.
10 STATION NUMBER
1 1/2" VALVE SIZE

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