-DAWSON COUNTY SENIOR CENTER SITE PACKAGE DRAWINGS TO FOLLOW-

ATTACHMENT “D”

DAWSON COUNTY SENIOR CENTER & PAVILION - SITE PACKAGE

201 RECREATION RD
DAWSONVILLE, GA 30534

100% CONSTRUCTION DOCUMENTS

SYMBOLS

1 A-3.1	ELEVATION MARK	▨	SHEATHING
	SECTION MARK 'SIM' - SIMILAR 'OH' - OPPOSITE HAND	▨	PLASTER, GYPSUM WALLBOARD
1 A101	ENLARGED PLAN / DETAIL MARK	▨	RIGID INSULATION
001	DOOR REFERENCE NUMBER SEE SHEET A8.1	▨	BATT INSULATION
OFFICE C123	ROOM NAME & NUMBER	▨	EARTH
PT	FLOOR FINISH	▨	GRANULAR
A	COLUMN AND GRID NUMBER	▨	CONCRETE
4	WINDOW REFERENCE NUMBER SEE SHEET A8.1	▨	BRICK
▨	SOLID GROUT	▨	STEEL, IRON
☒	WOOD DIMENSIONAL	▨	WOOD
		▦	MORTAR NET

ABBREVIATIONS

@	AT	HT	HEIGHT
ACT	ACOUSTICAL TILE	I.B.C.	INSTALLED BY CONTRACTOR
A.F.F.	ABOVE FINISHED FLOOR	JT.	JOINT
ALUM.	ALUMINUM	L.L.	LANDLORD
B/	BOTTOM OF	MAT.	MATERIAL
BD.	BOARD	MAX.	MAXIMUM
BLDG.	BUILDING	MECH.	MECHANICAL
BR	BRICK	MIN.	MINIMUM
BRG	BEARING	MTL.	METAL
CFMF	COLD FORMED METAL FRAMING	NC.	NON-COMBUSTIBLE
C.L.	CENTER LINE	N.I.C.	NOT IN CONTRACT
CLR	CLEAR	N.T.E.	NOT TO EXCEED
C.J.	CONTROL JOINT	N.T.S.	NOT TO SCALE
C.M.U.	CONCRETE MASONRY UNIT	O.D.	OVERFLOW DRAIN
COORD.	COORDINATE	OPP.	OPPOSITE
COL	COLUMN	PL.	PLASTIC LAMINATE
CONC.	CONCRETE	PLYWD.	PLYWOOD
CONT.	CONTINUOUS	PR.	PAIR
~	DIAMETER	P.T.	PRESSURE TREATED
DWG.	DRAWING	O.C.	ON CENTER
D.S.	DOWN SPOUT	R.D.	ROOF DRAIN
EA.	EACH	S.B.O.	SUPPLIED BY OWNER
ELEV.	ELEVATION	SCHED.	SCHEDULE
ELEC.	ELECTRIC	SIM.	SIMILAR
E.S.	EQUIPMENT SUPPLIER	STL.	STEEL
EXP.	EXPANSION	STRUCT.	STRUCTURAL
EXT.	EXTERIOR	T/	TOP OF
E.W.C.	ELECTRIC WATER COOLER	T&G	TONGUE AND GROOVE
F.D.	FLOOR DRAIN	TYP.	TYPICAL
FEC	FIRE EXTINGUISHER CABINET	UNO	UNLESS NOTED OTHERWISE
F.F.	FINISH FLOOR	VERT.	VERTICAL
FL.	FLOOR	VWC	VINYL WALL COVERING
F.O.	FACE OF	W	WIDE
F.O.F.	FACE OF FINISH	W/	WITH
F.O.M.	FACE OF MASONRY	WD.	WOOD
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	W.W.F.	WELDED WIRE FABRIC
F.R.	FIRE RETARDANT		
FRAN.	FRANCHISEE		
FRP	FIBERGLASS REINFORCED POLYESTER		
G.C.	GENERAL CONTRACTOR		
GWB	GYPSUM WALL BOARD		
H.M.	HOLLOW METAL		

SHEET LIST - SITE PACKAGE

SHEET NUMBER	Sheet Name	2019-02-19 CONSTRUCTION DOCUMENTS 100%	2019-03-08 GRANT REVIEW DOCUMENTS
.G1-0	COVER SHEET	X	X
.G-1	CIVIL COVER SHEET	X	X
.G-2	CONSTRUCTION RESPONSIBILITY PLAN	X	X
.G-3	PARTIAL TOPOGRAPHIC SURVEY	X	X
.G-4	SENIOR CENTER SEPTIC DESIGN COVER SHEET	X	X
.G-5	SITE PLAN AND LEVEL 3 SOIL SURVEY	X	X
.G-6	SEPTIC SYSTEM LAYOUT	X	X
.G-7	SEPTIC DESIGN AND COMPONENTS DETAIL	X	X
.G-8	PAVILION SEPTIC DESIGN COVER SHEET	X	X
.H	SITE PLAN AND LEVEL 3 SOIL SURVEY	X	X
.I	SEPTIC SYSTEM LAYOUT	X	X
.J	SEPTIC DESIGN AND COMPONENTS DETAIL	X	X
C-0	DEMOLITION PLAN	X	X
C-1	SITE & PAVING PLAN	X	X
C-1.1	ACCESSIBILITY PLAN AND DETAILS	X	X
C-2	GRADING AND DRAINAGE PLAN	X	X
C-2.1	STORM DRAINAGE PROFILES	X	X
C-2.2	STORM DRAINAGE DETAILS	X	X
C-3	UTILITIES PLAN	X	X
C-3.1	SANITARY SEWER PROFILES	X	X
C-4	EROSION, SEDIMENTATION, & POLLUTION CONTROL COVER	X	X
C-4.1	EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES	X	X
C-4.2	EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES	X	X
C-4.3	INITIAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN	X	X
C-4.4	INTERMEDIATE EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN	X	X
C-4.5	FINAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN	X	X
C-4.6	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS	X	X
C-4.7	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS	X	X
C-4.8	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS	X	X
C-5	CONSTRUCTION DETAILS	X	X
C-5.1	CONSTRUCTION DETAILS	X	X
C-6	UTILITY DETAILS	X	X
C-6.1	UTILITY DETAILS	X	X
L-1	LANDSCAPE PLAN	X	X
L-2	LANDSCAPE DETAILS	X	X

PROJECT TEAM

OWNER:
DAWSON COUNTY BOARD OF COMMISSIONERS

25 JUSTICE WAY, SUITE 2223
DAWSONVILLE, GA 30534
PHONE: 706.344.3500 ext. 42223
CONTACT: MELISSA HAWK
EMAIL: mhawk@dawsoncounty.org

CIVIL ENGINEER:
FORESITE GROUP, INC.

3740 DAVINCI CT
SUITE 100
PEACHTREE CORNERS, GA 30092
PHONE: 770.368.1399
CONTACT: JACK JOHNSON
EMAIL: jjohnson@fg-inc.net

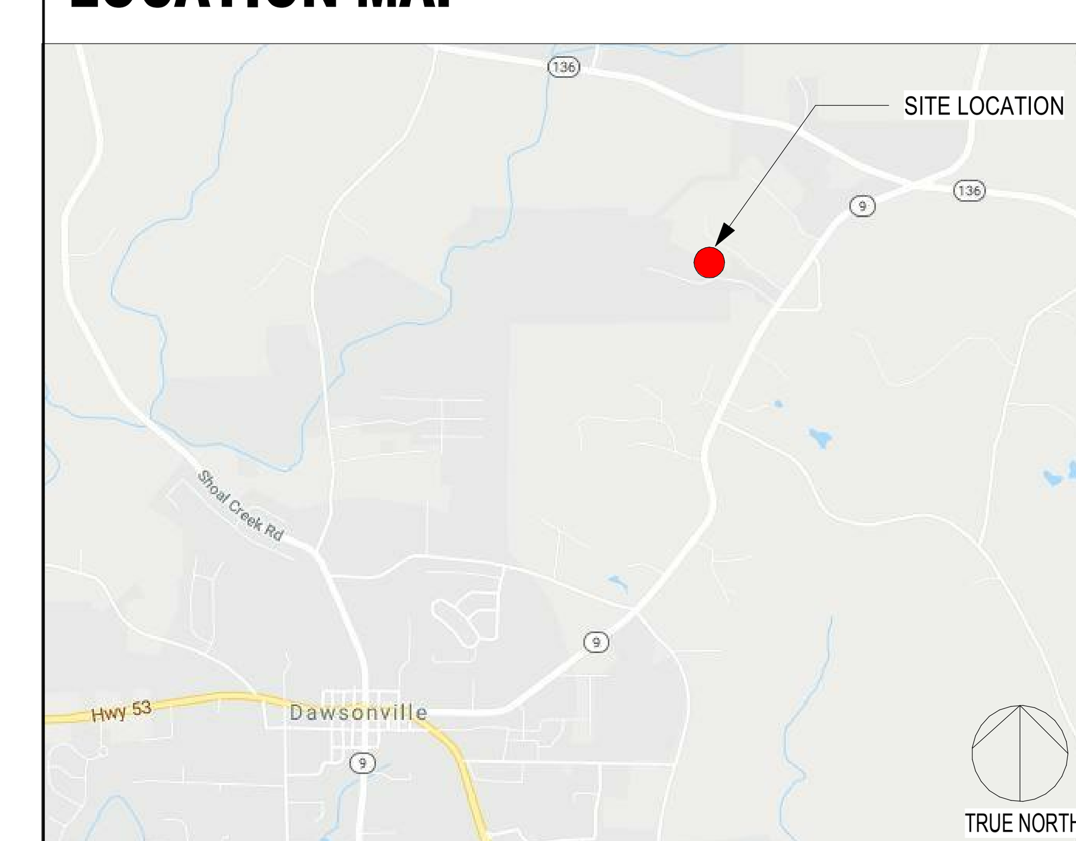
ARCHITECT:
WAKEFIELD BEASLEY & ASSOCIATES, INC.

5200 AVALON BOULEVARD
ALPHARETTA, GEORGIA 30009
PHONE: 770.209.9393
CONTACT: CHRISTIAN SPRINGFIELD
EMAIL: cspringfield@wbassociates.com

GENERAL NOTES

1. DO NOT SCALE DRAWINGS - USE DIMENSIONS ONLY. FOR DIMENSIONS NOT SHOWN OR IN QUESTION, CONTRACTOR SHALL REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.
2. UNLESS OTHERWISE NOTED, INTERIOR PARTITION DIMENSIONS ARE GIVEN FROM FACE OF METAL STUD FRAMING/CMU TO FACE OF METAL STUD FRAMING/CMU, OR FROM FACE OF METAL STUD FRAMING/CMU TO COLUMN CENTERLINE. EXCEPTION: MILLWORK DETAILS WHERE DIMENSIONS ARE FROM FACE OF FINISH SURFACES (GWB, PLASTER, ETC.).
3. ELEVATIONS AND LEVELS ARE SHOWN FROM FINISH FLOOR ELEVATION (F.F.E. 0'-0" = 993.30') TARGET ELEVATIONS ARE BASED ON A "REFERENCE BENCHMARK ELEVATION" -COORDINATE ELEVATION OF FINISHED FLOOR HEIGHT WITH CIVIL AND STRUCTURAL DRAWINGS.
4. ELECTRIC PANELS, ALARM BOXES, FIRE EQUIPMENT CABINETS AND OTHER RECESSED BOXES GREATER THAN 16 SQUARE INCHES THAT ARE LOCATED IN RATED WALLS SHALL BE BACKED BY GYPSUM WALLBOARD LAYERS SUFFICIENT TO MAINTAIN THE DESIGNATED RATING. FEC'S MAY BE PROIDED WITH A RATED CABINET TO MATCH THE DESIGNATED RATING.
5. ATTIC ACCESS FROM AN ADJACENT SPACE SHALL BE PROVIDED WHERE THE BELOW ITEMS OCCUR OVER GWB CEILINGS:
   A. VALVES
   B. FLOW MEASURING DEVICES
   C. MIXING BOXES
   D. POWER OPERATED DAMPERS
   E. ACCESS PANELS IN DUCTWORK
   F. VOLUME AND BALANCING DEVICES
   G. WATER FLOW SWITCHES
   H. SPRINKLER SYSTEM DRAINS AND TEST CONNECTIONS
   I. PRESSURE SWITCHES
6. PATCH AND REPAIR ALL ITEMS DAMAGED OR ALTERED DURING CONSTRUCTION. ALL PATCHES SHALL BLEND WITH ADJACENT MATERIAL, COLOR, FINISH, AND TEXTURE. ALL EXISTING WORK FURNISHINGS, EQUIPMENT OR MATERIAL TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

LOCATION MAP



DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

A NELSON Company

ARCHITECT OF RECORD

NELSON

Nelco Architecture, Inc.
a licensed affiliate of Nelson Worldwide, LLC.

STATE OF GEORGIA
MARK S. SCHROEDER
REGISTERED ARCHITECT
CERTIFICATE NO. 85[illegible]

[illegible]

DAWSON COUNTY SENIOR CENTER

201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2018-06-01 DESIGN DEVELOPMENT 100%
2018-06-18 CD PROGRESS PRINT 90%
2019-02-19 CONSTRUCTION DOCUMENTS 100%
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE February 04, 2019

PROJECT NUMBER 1816000.000

SHEET TITLE

COVER SHEET

SHEET NUMBER

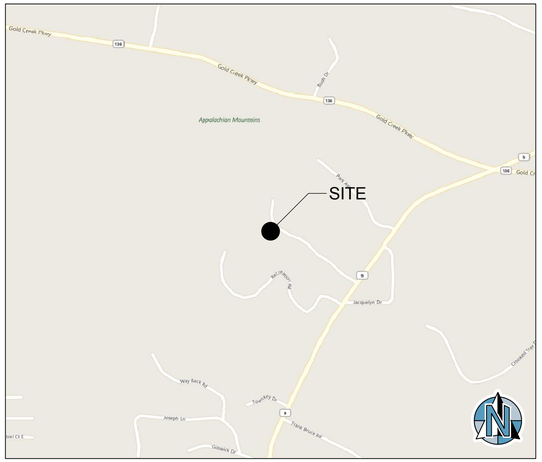
G1-0

SITE DEVELOPMENT PLANS FOR:

DAWSON COUNTY SENIOR CENTER EXPANSION

201 RECREATION RD
DAWSONVILLE, GA 30534
LAND LOTS 248 & 249, 13TH DISTRICT, PARCEL #: 091035
ZONED: RA

SHEET INDEX



VICINITY MAP
NOT TO SCALE

SITE DISTURBED AREA = 7.5 AC.

PROJECT DIRECTORY

OWNER
DAWSON COUNTY BOARD OF COMMISSIONER
25 JUSTICE WAY, SUITE 2223
DAWSONVILLE, GA 30534
(706) 344-3500
CONTACT: MELISSA HAWK

CIVIL ENGINEER
FORESITE GROUP, INC.
3740 DAVINCI COURT, SUITE 100
PEACHTREE CORNERS, GA 30092
(770) 344-3700
CONTACT: DAWN PRUETT

ARCHITECT
ERIC PEEK
5200 AVOLON BLVD
ALPHARETTA, GA 30009
(770) 209-9393
CONTACT: WAKEFIELD BEASLEY & ASSCIATES, INC.

SURVEYOR
GEOSURVEY, LTD
1660 BARNES MILL RD
MARIETTA, GA 30062
(770) 795-9900
CONTACT: JOHN NEWMAN

GEOTECHNICAL ENGINEER
GEOHYDRO ENGINEERS
1000 COBB PLACE BLVD, SUITE 290
KENNESAW, GA 30144
(770) 426.7100
CONTACT: A. MARTY PENINGER

UTILITY PROVIDERS

WATER SERVICE PROVIDER
ETOWAH WATER AND SEWER AUTHORITY
1162 HWY 53 E
DAWSONVILLE, GA 30534
(706) 216-8474
CONTACT: JOHN CORAN

SANITARY SEWER SERVICE PROVIDER
ETOWAH WATER AND SEWER
1162 HWY 53 E
DAWSONVILLE, GA 30534
(706) 216-8474
CONTACT: JOHN CORAN

ELECTRICAL SERVICE PROVIDER
GEORGIA POWER COMPANY
823 JEFFERSON ST.
ATLANTA, GA 30318
(404) 506-4569
CONTACT: IKE COLLINS

GAS SERVICE PROVIDER
SOUTHEN COMPANY GAS
10 PEACHTREE ST. NE
ATLANTA, GA 30309
(404) 584-4338
CONTACT: HAYDEN HINTON

TELEPHONE SERVICE PROVIDER
WINDSTREAM COMMUNICATION
750 N. JEFFERSON ST. NE
MILLEDGEVILLE, GA 31061
(888) 599-3166

LOCAL MUNICIPALITY
DAWSON COUNTY
25 JUSTICE WAY, SUITE 2223
DAWSONVILLE, GA 30534
(706) 344-3500
CONTACT: JASON STREETMAN

PREPARED BY:

FORESITE group

Foresite Group, Inc.
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

w | www.fg-inc.net
o | 770.368.1399
f | 770.368.1944

24 HR CONTACT:
DAVID MCGHEE
(706) 344-3501

ISSUED:
MARCH 28, 2018
121.029

CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON COMPLETION OF INITIAL EROSION BMP'S AS SHOWN ON SHEET C-4 IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION. THE CONTRACTOR SHALL VERIFY THAT ALL EXISTING INITIAL BMP'S ARE INSTALLED PROPERLY. ALL COMPENSATION FOR DESIGN ENGINEER'S REINSPECTION TO VERIFY THAT THE INITIAL BMP'S ARE PROPERLY INSTALLED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ANTICIPATED ACTIVITY SCHEDULE
BEGIN CONSTRUCTION: 2019-04-01
END CONSTRUCTION: 2020-04-01

	ACTIVITY	2.0 MTH	4.0 MTH	6.0 MTH	8.0 MTH	10.0 MTH	12.0 MTH
1	INSTALL SEDIMENT CONTROLS						
2	DEMOLITION						
3	CLEARING, GRUBBING, & GRADING						
4	GRASS TEMP.						
5	BUILDING CONSTRUCTION						
6	MAINTAIN EROSION CONTROL						
7	PAVING						
8	FINAL LANDSCAPING						
9	DISPOSITION OF TEMP. SEDIMENT CONTROLS						

GEORGIA811 Utilities Protection Center, Inc.
Know what's **below.** **Call** before you dig.

CERTIFICATION STATEMENT:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF THE BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001. ADDITIONALLY, I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

SIGNATURE OF ENGINEER — DATE: 3/08/19
000006080827 — CERTIFICATION # — EXPIRATION: 2019-03-24

"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 ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

SIGNATURE OF PRIMARY PERMITEE — DATE

AS USED HEREIN, THE WORD *CERTIFY* SHALL MEAN AN EXPRESSION OF THE CONSULTANT'S PROFESSIONAL OPINION TO THE BEST OF ITS INFORMATION, KNOWLEDGE, AND BELIEF, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE BY THE CONSULTANT.

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

A NELSON Company

ARCHITECT OF RECORD
NELSON
Nelco Architecture, Inc.
a licensed affiliate of Nelson Worldwide, LLC.

FORESITE group

GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION
201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

SHEET TITLE
COVER

SHEET NUMBER
G-1

SITE PHOTOGRAPHS

1 2 3 4 5 6 7 8

AERIAL IMAGE

VICINITY MAP

SITE LOCATION -- LATITUDE: 34° 26' 20" LONGITUDE: 84° 06' 28"

GENERAL NOTES

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE INSPECTION REPORT. EASEMENTS OR OTHER ENCUMBRANCES MAY EXIST ON PUBLIC RECORD BUT NOT BE SHOWN HEREON.

PLEASE NOTE: GEOSURVEY, LTD., ASSUMES NO LIABILITY REGARDING THE ACCURACY OR LOCATION OF PROPERTY LINES SHOWN HEREON. PROPERTY LINE INFORMATION IS SHOWN AS APPROXIMATE BASED ON DEED BOOK 672, PAGE 296; DEED BOOK 885, PAGE 25; AND MONUMENTS FOUND ON SITE. NO BOUNDARY SURVEY WAS PERFORMED BY GEOSURVEY, LTD.

THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13085C0153C, AND THE DATE OF SAID MAP IS APRIL 4, 2018. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY eGPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983(2011)--STATE PLANE COORDINATE SYSTEM OF GEORGIA--WEST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988. ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR, GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.

PLEASE NOTE: TREES 8--INCH DBH (DIAMETER AT BREAST HEIGHT) AND LARGER WERE LOCATED FOR THIS SURVEY.

THE SITE IS ZONED "RA" (RESIDENTIAL--AGRICULTURAL DISTRICT) & "PCS" (PLANNED CONSERVATION SUBDIVISION DISTRICT) AS SHOWN ON THE ZONING MAPS OF THE CITY OF DAWSONVILLE AND DAWSON COUNTY.

PLEASE NOTE: ZONING AND SETBACKS SHOULD BE CONFIRMED AND VERIFIED BY PLANNING AND ZONING PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.

SURVEY REFERENCES

1> BOUNDARY SURVEY FOR DAWSON COUNTY, PREPARED BY LANDMARK DESIGN ASSOCIATES, RECORDED AS AN EXHIBIT IN DEED BOOK 885, PAGE 25.

UTILITY NOTE

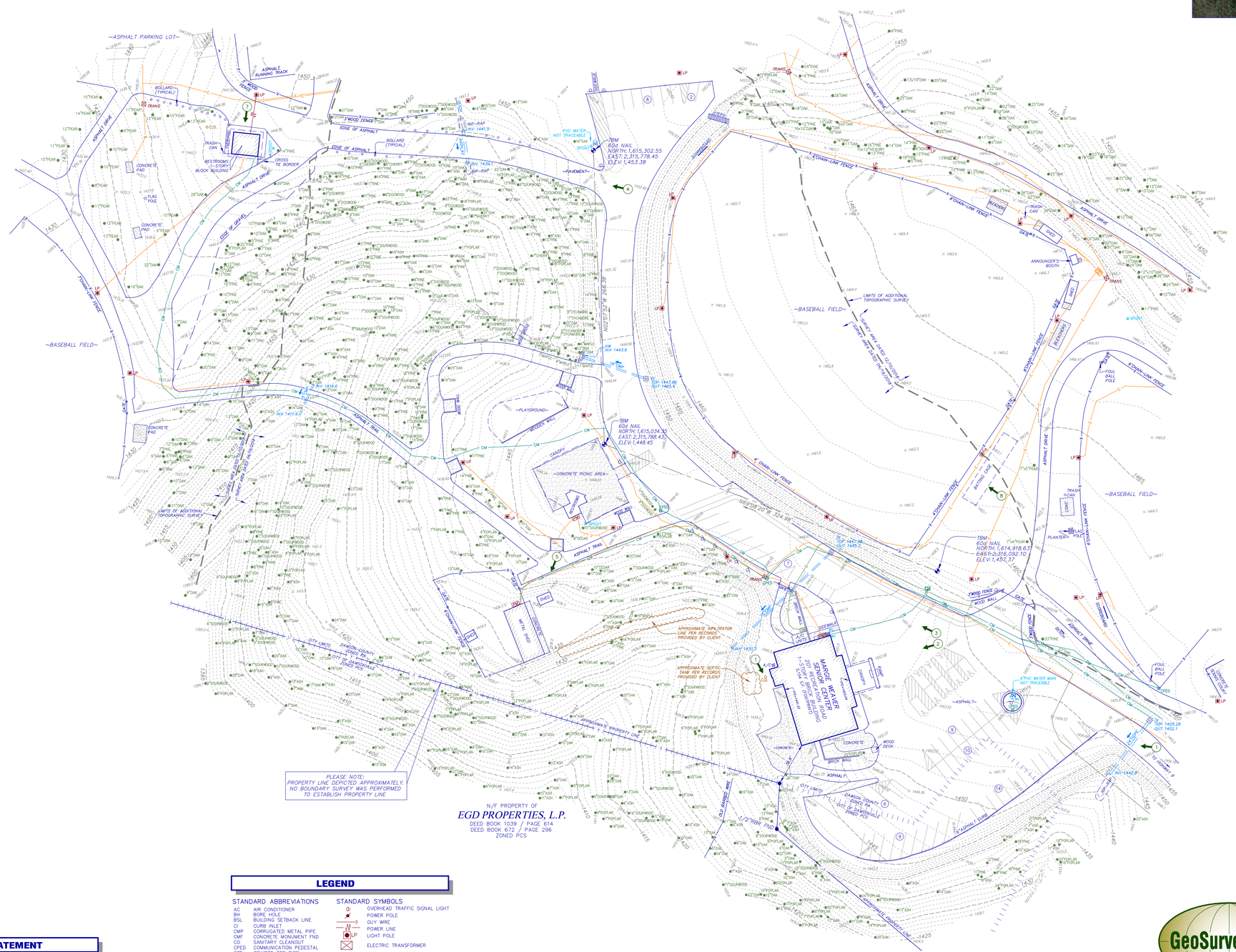
THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:

UTILISURVEY, LLC
154 GRANT ROAD
FAYETTEVILLE, GA 30215

THE UNDERGROUND UTILITIES (EXCEPT THE LOCATION OF EXISTING DRAINAGE, SEWER AND IRRIGATION UTILITIES AS WELL AS UNDERGROUND STORAGE TANKS) WERE LOCATED BY UTILISURVEY, LLC, UTILIZING RADIO FREQUENCY TECHNIQUE. THIS TECHNIQUE IS CAPABLE OF LOCATING METALLIC UTILITIES AND TRACER WIRES. ANY NON--METALLIC UTILITIES (WITHOUT TRACER WIRE) ARE NOT LOCATED.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN--SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.



PLEASE NOTE:
PROPERTY LINE DEPICTED APPROXIMATELY.
NO BOUNDARY SURVEY WAS PERFORMED
TO ESTABLISH PROPERTY LINE

N/F PROPERTY OF
EGD PROPERTIES, L.P.
DEED BOOK 1039 / PAGE 614
DEED BOOK 672 / PAGE 296
ZONED PCS

LEGEND

STANDARD ABBREVIATIONS		STANDARD SYMBOLS	
AC	AIR CONDITIONER	OHL	OVERHEAD TRAFFIC SIGNAL LIGHT
BH	BORE HOLE		POWER POLE
BSL	BUILDING SETBACK LINE		GUY WIRE
CI	CURB INLET		POWER LINE
CMP	CORRUGATED METAL PIPE	LP	LIGHT POLE
CMF	CONCRETE MONUMENT FND		
CO	SANITARY CLEANOUT		ELECTRIC TRANSFORMER
CPED	COMMUNICATION PEDESTAL		
CTP	CRIMPED TOP PIPE		WATER VAULT
DI	DROP INLET		
DIP	DUCTILE IRON PIPE		GAS VALVE
DWCB	DOUBLE WING CATCH BASIN	GM	GAS METER
FNC	FENCE		WATER VALVE
FND	FOUND	WM	WATER METER
GM	GAS METER		FIRE HYDRANT
INV	INVERT	E	UNDERGROUND ELECTRIC LINE
JB	JUNCTION BOX	G	UNDERGROUND GAS LINE
MH	MANHOLE	CM	UNDERGROUND COMMUNICATION LINE
OCS	OUTLET CONTROL STRUCTURE	W	UNDERGROUND WATER LINE
OTP	OPEN TOP PIPE	1	PHOTO POSITION INDICATOR
PM	POWER METER		
PKS	PK NAIL SET		
POB	POINT OF BEGINNING		
POC	POINT OF COMMENCEMENT		
RCP	REINFORCED CONCRETE PIPE	XX	REGULAR PARKING SPACE COUNT
RBR	IRON REINFORCING BAR		
RBS	5/8"REBR SET CAPPED LSF 621		HANDICAP PARKING SPACE
SS	SANITARY SEWER		
SWCB	SINGLE WING CATCH BASIN		TREE POSITION INDICATOR
TRANS	ELECTRIC TRANSFORMER		SIGN

GRAPHIC SCALE

0 20 40 100 200

1" = 40'

CLOSURE STATEMENT

THE FIELD CLOSURE UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 75,975', AND WAS ADJUSTED USING THE LEAST SQUARES METHOD. A TRIMBLE S--6 TOTAL STATION AND TRIMBLE TSC--3 DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

IF YOU DIG

Know what's **below.**
Call before you dig.
Dial 811
Or Call 800-282-7411

John T. Newman
Georgia Registered
Land Surveyor # 3324

GEORGIA REGISTERED PROFESSIONAL NO. 3324 LAND SURVEYOR JOHN T. NEWMAN

GeoSurvey, Ltd.
Land Surveying • 3D Laser Scanning
1660 Barnes Mill Road
Marietta, Georgia 30062
Phone: (770) 795--9900
Fax: (770) 795--8880
www.geosurvey.com
EMAIL: info@geosurvey.com
Certificate of Authorization #LSF--000621

PARTIAL TOPOGRAPHIC SURVEY OF

Veterans Memorial Park

FOR

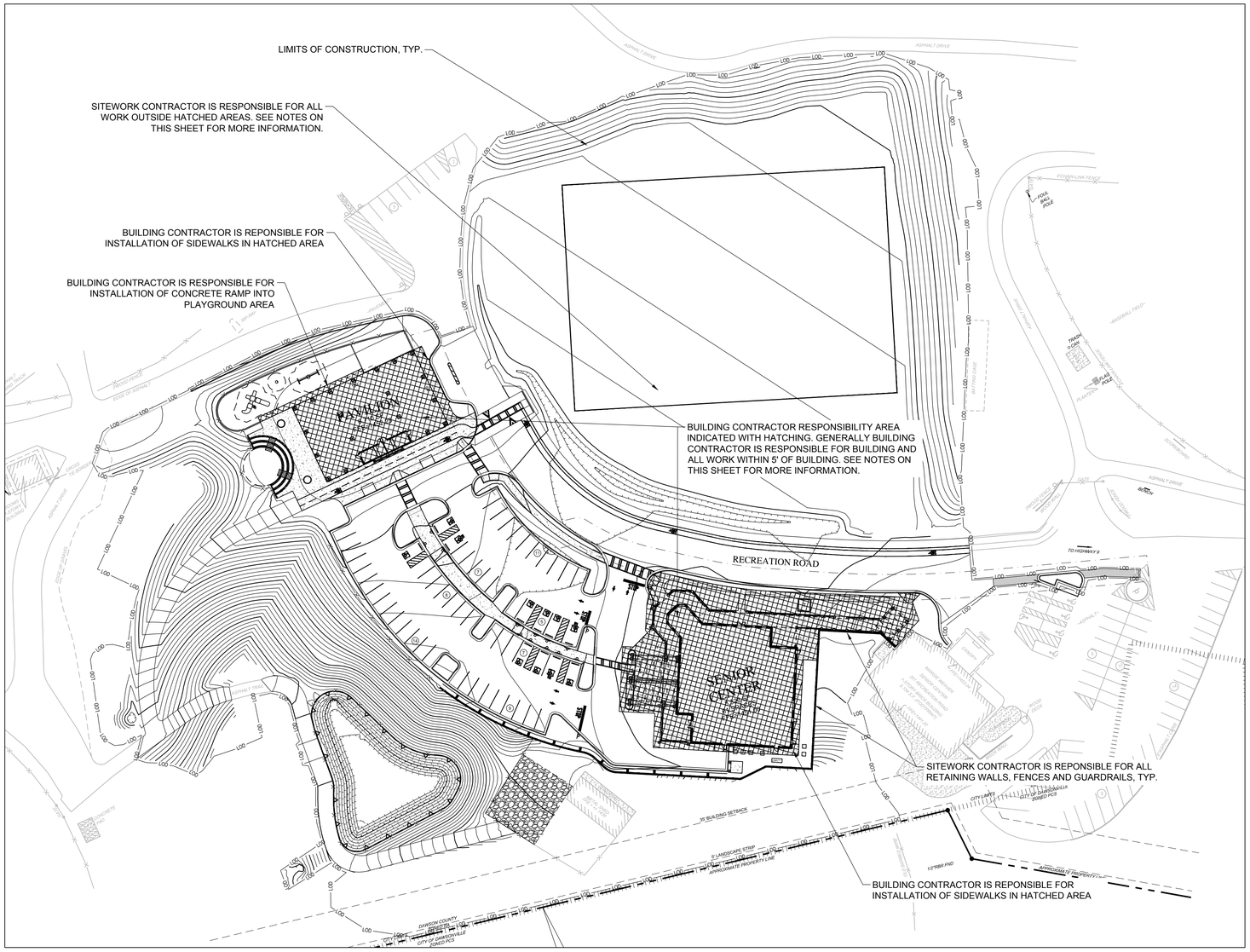
Dawson County Parks And Recreation

GS JOB NO:	20185781	DRAWING SCALE:	1"= 40'
FIELD WORK:	CM	CITY:	DAWSONVILLE & UNINCORPORATED
PROJ MGR:	JTN	COUNTY:	DAWSON STATE: GA
REVIEWED:	JRC	LAND LOT:	248 & 249
DWG FILE:	20185781--01.dwg	DISTRICT:	13TH

SURVEY DATE: 04--19--2018

REVISIONS

No.	Date	Description
1.	12--10--18	Add two additional survey areas



CONTRACTOR RESPONSIBILITY NOTES:

SITEWORK CONTRACTOR RESPONSIBILITIES:

1. ALL DEMOLITION.
2. ALL GRADING, EARTHWORK, STORMWATER MANAGEMENT AND DRAINAGE INFRASTRUCTURE INCLUDING ROOF DRAINS STUBBED AT 5' OUTSIDE THE BUILDING ENVELOPE.
3. SITEWORK CONTRACTOR IS RESPONSIBLE TO BRING THE BUILDING PADS TO GRADE IN ACCORDANCE WITH THE REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING PREPARED BY GEOHYDRO ENGINEERS, DATED APRIL 3, 2018.
4. ALL UTILITIES STUBBED AT 5' OUTSIDE BUILDING ENVELOPE (INCLUDING UNDERGROUND ROOF DRAINAGE LINES). SITE WORK CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND COORDINATION WITH UTILITY PROVIDERS FOR INSTALLATION OF SERVICES, RELOCATION AND/OR MODIFICATION OF SERVICES.
5. SITEWORK CONTRACTOR IS RESPONSIBLE FOR TRANSFORMER PAD. BUILDING CONTRACTOR RESPONSIBLE FOR ALL OTHER BUILDING UTILITY EQUIPMENT PADS, SEE NOTES BELOW.
6. ALL RETAINING WALLS, FENCES AND GUARDRAILS (SEE BUILDING STRUCTURAL PLANS FOR FENCE CONNECTION DETAIL TO TOP OF RETAINING WALL).
7. ALL PLAYGROUND INFRASTRUCTURE UNLESS OTHERWISE NOTED HERE ON.
8. ALL AMPHITHEATER INFRASTRUCTURE.
9. ALL CURB AND GUTTER.
10. ALL CONCRETE SIDEWALK, UNLESS OTHERWISE NOTED IN THE RESPONSIBILITY EXHIBIT.
11. ALL ROADWAY, TRAIL, AND PARKING LOT ASPHALT PAVING TO THE BINDER COURSE OF ASPHALT. THE BUILDING CONTRACTOR WILL BE RESPONSIBLE TO INSTALL THE FINISH COURSE OF ASPHALT AT THE COMPLETION OF CONSTRUCTION.
12. ALL LANDSCAPING AND IRRIGATION.
13. ALL PAVEMENT STRIPING AND SIGNAGE.
14. REPLACEMENT OF ANY IMPROVEMENTS INSTALLED BY THE BUILDING CONTRACTOR THAT ARE DAMAGED BY SITEWORK CONTRACTOR DURING CONSTRUCTION.
15. ALL OTHER SITEWORK INDICATED IN THE PLANS AND SPECIFICATIONS NOT COVERED BY THE BUILDING CONTRACTOR.

BUILDING CONTRACTOR RESPONSIBILITIES:

1. COMPLETE BUILDING PER BUILDING PLANS.
2. UTILITY CONNECTIONS TO BUILDING.
3. HVAC AND OTHER EQUIPMENT PADS EXCEPT TRANSFORMER PAD. SEE NOTES ABOVE.
4. DOWNSPOUT CONNECTIONS TO UNDERGROUND ROOF DRAINAGE LINES.
5. CONCRETE PAVEMENT IN PORTE COCHERE AREA.
6. PORTIONS OF CONCRETE SIDEWALK INDICATED IN THE RESPONSIBILITY EXHIBIT.
7. INSTALLATION THE FINISH COURSE OF ASPHALT AT THE COMPLETION OF CONSTRUCTION.
8. REPLACEMENT OF ANY SIDEWALK, CURBS OR OTHER IMPROVEMENTS INSTALLED BY THE SITEWORK CONTRACTOR THAT ARE DAMAGED BY BUILDING CONTRACTOR DURING CONSTRUCTION.

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NAD83 - GA STATE PLANE WEST ZONE

1"=50'
50' 25' 0 50' 100'
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GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
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Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

SHEET TITLE
CONSTRUCTION RESPONSIBILITY PLAN

SHEET NUMBER
G-2

SHEET NAME:

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\DWG\G-2 Responsibility Plan.dwg

3/06/2019 1:18:01 PM

GENERAL NOTES:

1) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEMOLITION PERMIT FROM DAWSON COUNTY PRIOR TO DEMOLITION OF THE SITE.

2) ALL INITIAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY WORK INCLUDING DEMOLITION.

3) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR.

4) REMOVE SHRUBS AND TREES AS NOTED. GRUB OUT ROOTS AND STUMPS AND LEGALLY DISPOSE OF DEBRIS.

5) CONTRACTOR SHALL BE FAMILIAR WITH AND FOLLOW ALL RECOMMENDATIONS GIVEN BY GEOTECHNICAL REPORT BY GEOHYDRO ENGINEERS DATED APRIL, 3 2018 DURING DEMOLITION AND SITE CONSTRUCTION.

EROSION CONTROL NOTES

(SEE ALSO EROSION CONTROL PLAN)

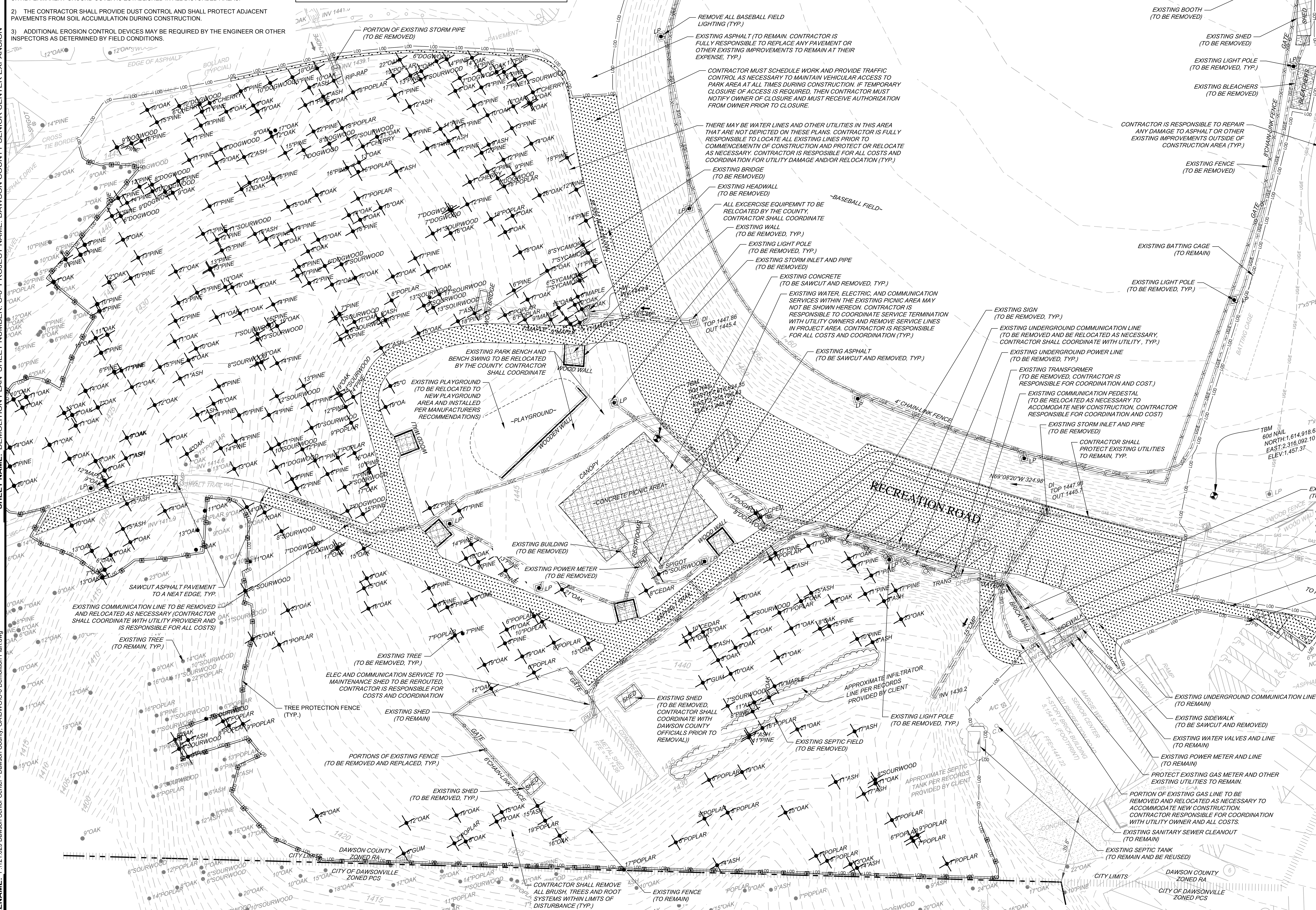
1) EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CLEARING OR EARTHWORK OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ALL DISTURBED AREAS.

2) THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND SHALL PROTECT ADJACENT PAVEMENTS FROM SOIL ACCUMULATION DURING CONSTRUCTION.

3) ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE ENGINEER OR OTHER INSPECTORS AS DETERMINED BY FIELD CONDITIONS.

LEGEND

▨	UTILITIES, FENCE, AND/OR WALL TO BE REMOVED AND/OR RELOCATED. SEE NOTE FOR DETAIL.
⊠	BUILDING/CONCRETE TO BE REMOVED
⁙	ASPHALT, GRAVEL, AND/OR CURB & GUTTER TO BE REMOVED
—×—×—	EXISTING FENCE
——— - - ———	PROPERTY LINE
— LOD — LOD —	LIMITS OF DISTURBANCE
—▣—▣—	TREE PROTECTION FENCE
✕	EXISTING TREE TO BE REMOVED



DEMOLITION NOTES:

1) ALL NEW WORK SHOWN IN THESE SHEETS SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL BUILDING AND UTILITY INSTALLATION CODES.

2) ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH <DOT> STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES EXCEPT IN CASES WHERE, WITHIN DAWSON COUNTY JURISDICTION, THE COUNTY STANDARD SPECIFICATIONS ARE MORE STRINGENT.

3) THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND TO NOTIFY THE OWNER IN CASE OF DISCREPANCIES THAT AFFECT THE CONSTRUCTION PROJECT.

4) THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATION AND RELOCATION OF AND TIE-IN TO PUBLIC UTILITIES.

5) CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO ANY ADJACENT STRUCTURES OR PROPERTY, OR ANY EXISTING STRUCTURES WITHIN LIMITS OF CONSTRUCTION THAT ARE DESIGNATED ON THE PLANS TO REMAIN, AND SHALL REPAIR OR REPLACE SUCH DAMAGED PROPERTY TO THE PROPERTY OWNER'S SATISFACTION AT NO COST TO THE OWNER.

6) THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER.

7) CONTRACTOR IS RESPONSIBLE FOR CONTACTING DAWSON COUNTY AND ALL EXISTING UTILITY PROVIDERS BEFORE REMOVING ANY/ALL UTILITIES FROM THEIR EXISTING LOCATION ON THE SITE. THE CONTRACTOR SHALL PERFORM ALL UTILITY DEMOLITION OR RELOCATION ACTIVITIES IN ACCORDANCE WITH THE EXISTING UTILITIES SPECIFICATIONS, MATERIALS, AND REQUIREMENTS.

8) THE CONTRACTOR SHALL SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NECESSARY TO MAINTAIN ACCESS TO THE SITE THROUGH ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION. TEMPORARY PROVISIONS MAY INCLUDE, BUT ARE NOT LIMITED TO: BARRICADES, FLASHING LIGHTS, FLAGMAN, TEMPORARY PAVEMENT, AND DIRECTIONAL SIGNAGE AS NECESSARY TO ACCOMPLISH THE WORK.

9) CONTRACTOR SHALL CONSIDER COORDINATION ASPECTS OF CRANES AND CONSTRUCTION EQUIPMENT OPERATIONS DURING DEMOLITION ACTIVITY.

10) COORDINATE WITH DAWSON COUNTY AS REQUIRED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES.

11) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY DAWSON 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 AREA DISTURBANCE.

12) ALL BUFFERS AND SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

13) THE CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS MATERIALS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.

14) ALL ITEMS DESIGNATED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF, OFF SITE.

15) CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION.

16) UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THESE PLANS. CONTRACTOR IS FULLY RESPONSIBLE TO LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND IS RESPONSIBLE FOR COORDINATION WITH UTILITY OWNERS FOR ANY UTILITY RELOCATIONS REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION AND ALL ASSOCIATED COSTS.

17) CONTRACTOR TO POT HOLE EXISTING WATER LINE, UNDERGROUND ELECTRICAL LINES, GAS LINE, UNDERGROUND TELEPHONE, FIBER OPTIC, AND ANY OTHER UTILITY LINES WITHIN THE LIMITS OF DISTURBANCE DURING DEMOLITION ACTIVITIES AND COORDINATE FIELD LOCATIONS AND DEPTHS OF THESE UTILITIES WITH ENGINEER FOR PROPOSED UTILITY CROSSINGS AND PROPOSED PAVEMENT OVER EXISTING LINES. THESE LINES MAY REQUIRE RELOCATION.

NAD83 - GA STATE PLANE WEST ZONE

1" = 30'

30' 15' 0 30' 60'

SCALE IN FEET

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3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

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DATE

PROJECT NUMBER

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C-0

SHEET NAME: DEMOLITION PLAN SHEET NUMBER: C-0 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\DWG\C-0 Demolition Plan.dwg

GENERAL NOTES:

1) ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED PARKING LOT ARE SHOWN AT THE FACE OF CURB. ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED BUILDING LOCATION ARE GIVEN AT THE OUTSIDE FACE OF THE BUILDING CORNERS. ALL CURB RADII ARE GIVEN AT THE FACE OF CURB.

2) CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION.

3) CONTRACTOR IS RESPONSIBLE FOR CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, WALLS, AND UTILITIES.

SITE NOTES:

1) TRACT IS ZONED: RA (RESIDENTIAL EXURBAN/AGRICULTURAL)

2) SEE ARCHITECTURAL PLANS FOR BUILDING FLOOR PLAN DIMENSIONS, DOOR LOCATIONS, SITE LIGHTING PLAN, AND OTHER ARCHITECTURAL DETAILS.

3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED ON THE SITE.

4) ALL BUFFERS, TREE SAVE AREAS, AND UNDISTURBED AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

5) SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THIS DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR ON-SITE SIGNAGE.

6) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE OWNER, HOWEVER A CONTRACTOR/DEVELOPER CAN DO PERMITTING WITH AGENT AUTHORIZATION.

7) ALL EROSION, SEDIMENT CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY GRADING.

8) MAXIMUM CUT OR FILL SLOPE=2H:IV

9) CONTRACTOR SHALL COORDINATE WITH THE CITY/COUNTY JURISDICTION, WATER AND SEWER JURISDICTION, AND DEPARTMENT OF TRANSPORTATION INSPECTORS REGARDING ALL CERTIFICATE OF OCCUPANCY REQUIREMENTS AND COORDINATE WITH THE ENGINEER APPROXIMATELY 8 WEEKS PRIOR TO ANTICIPATED CERTIFICATE OF OCCUPANCY DATE REGARDING ANY ITEMS REQUIRING APPROVAL OR CERTIFICATIONS BY THE ENGINEER.

SITE DATA

ZONING:		RA (RESIDENTIAL EXURBAN/AGRICULTURAL)
PARCEL IDENTIFICATION NUMBER:		091035
DISTURBED AREA:		7.5 AC.
IMPERVIOUS SURFACE AREA PROPOSED (%):		1.434 AC.
LANDSCAPE STRIP -	FRONT:	10 FT
	SIDE:	5 FT
	REAR:	5 FT
BUILDING SETBACK -	FRONT:	40 FT
	SIDE:	20 FT
	REAR:	35 FT
SENIOR CENTER BUILDING FLOOR AREA (GROSS):		8,326 S.F.
BUILDING HEIGHT:		27' - 1.5"
BUILDING HEIGHT (MAX.):		35'
PARKING RATIO REQUIRED -		(1 SPACE / 10 SENIORS) + (1 SPACE / EMPLOYEE)
SENIOR CENTER PARKING REQUIRED: 100 SENIORS + 14 EMPLOYEES =		24 SPACES
PARKING PROVIDED:		61 SPACES
ACCESSIBLE PARKING REQUIRED:		3 SPACES
ACCESSIBLE PARKING PROVIDED:		11 SPACES

LEGEND

- STANDARD DUTY ASPHALT PAVING
- HEAVY DUTY ASPHALT PAVING
- ASPHALT PAVEMENT REPAIR (TYPE IV, SEE C-6.1)
- CONCRETE SIDEWALK PAVING
- HEAVY DUTY CONCRETE PAVING
- PROPERTY LINE
- (#) PARKING COUNT
- TRAFFIC SIGN
- PAINTED TRAFFIC ARROWS
- TRAFFIC FLOW LANE DESIGNATION

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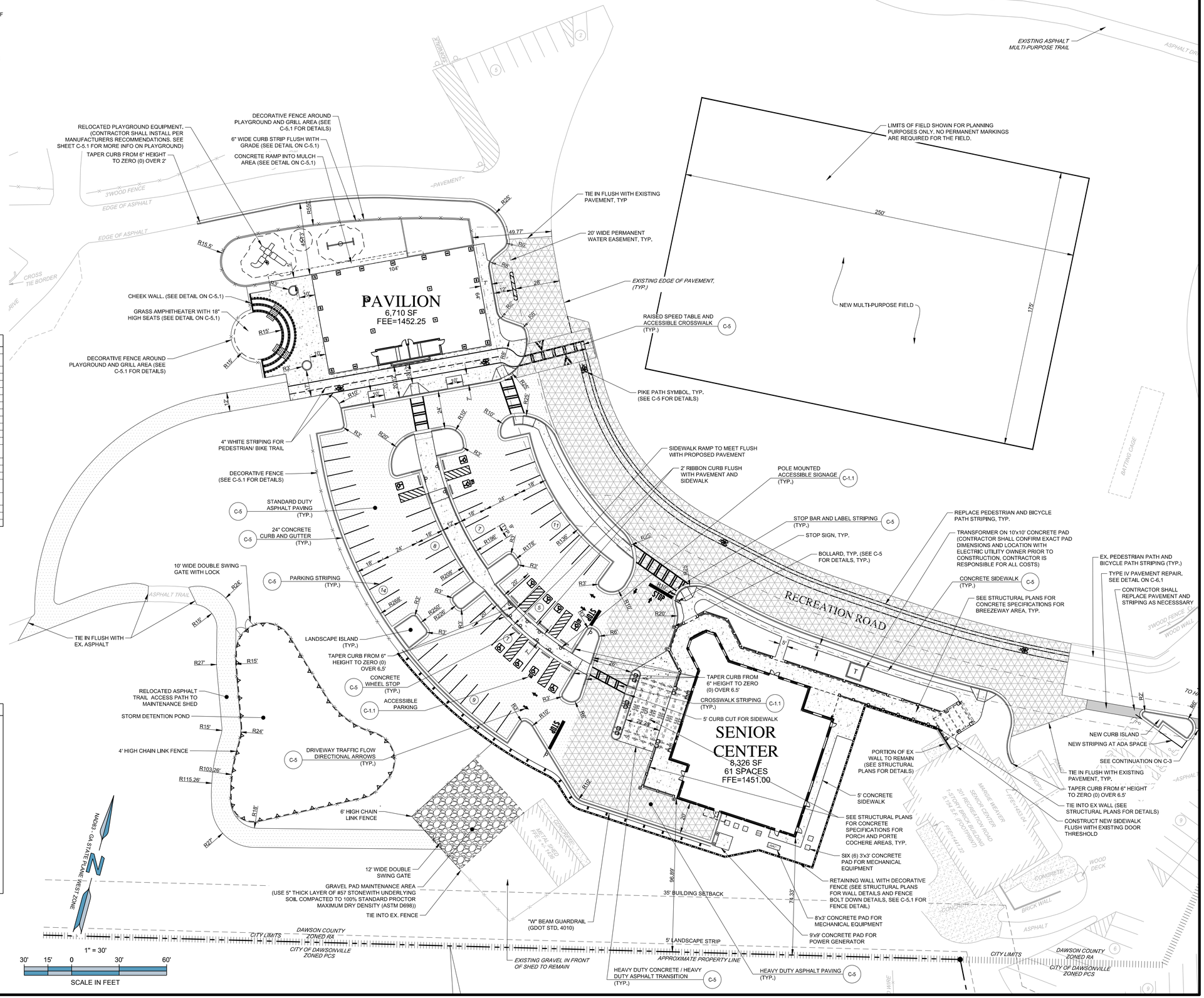

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DATE

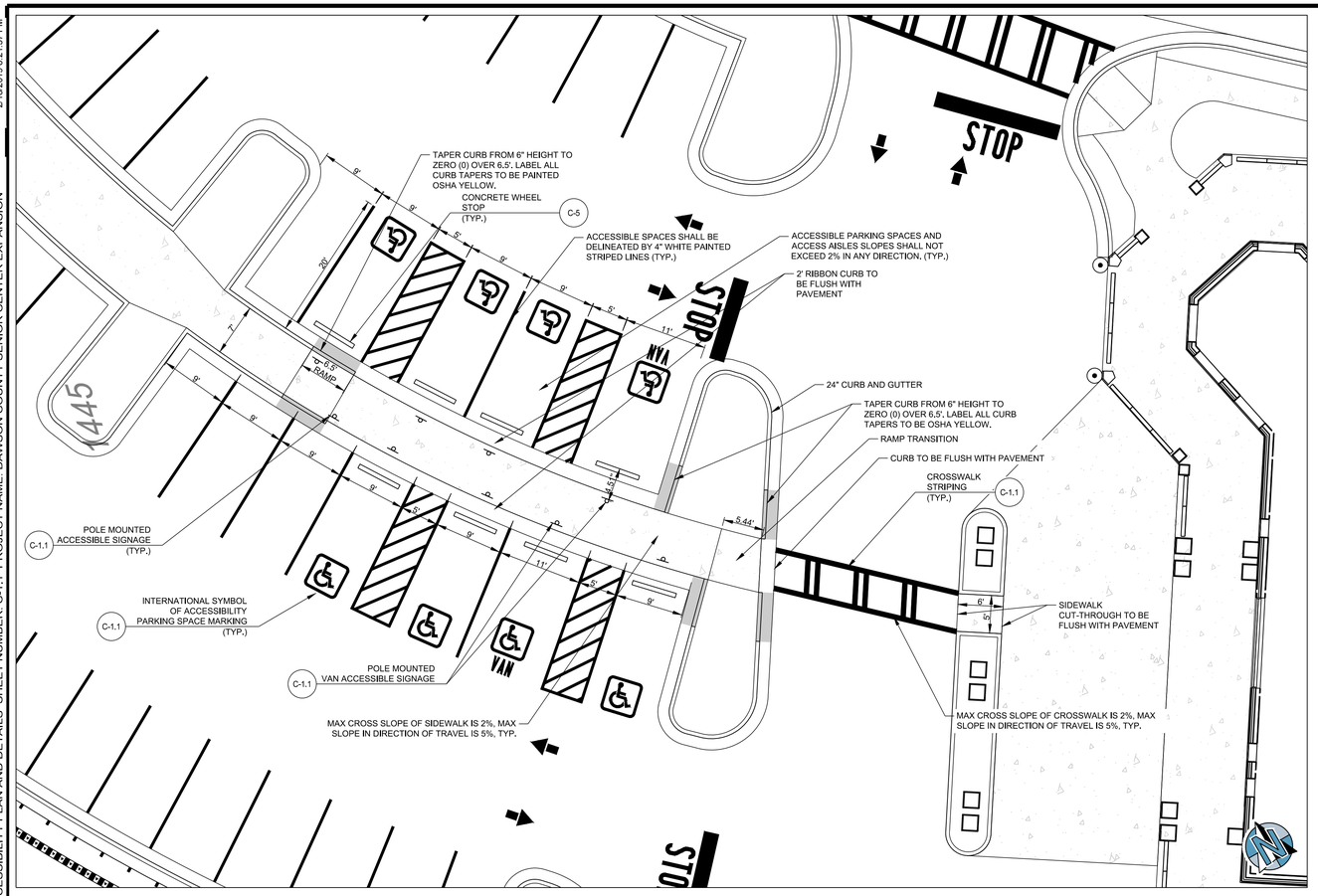
PROJECT NUMBER

SHEET TITLE

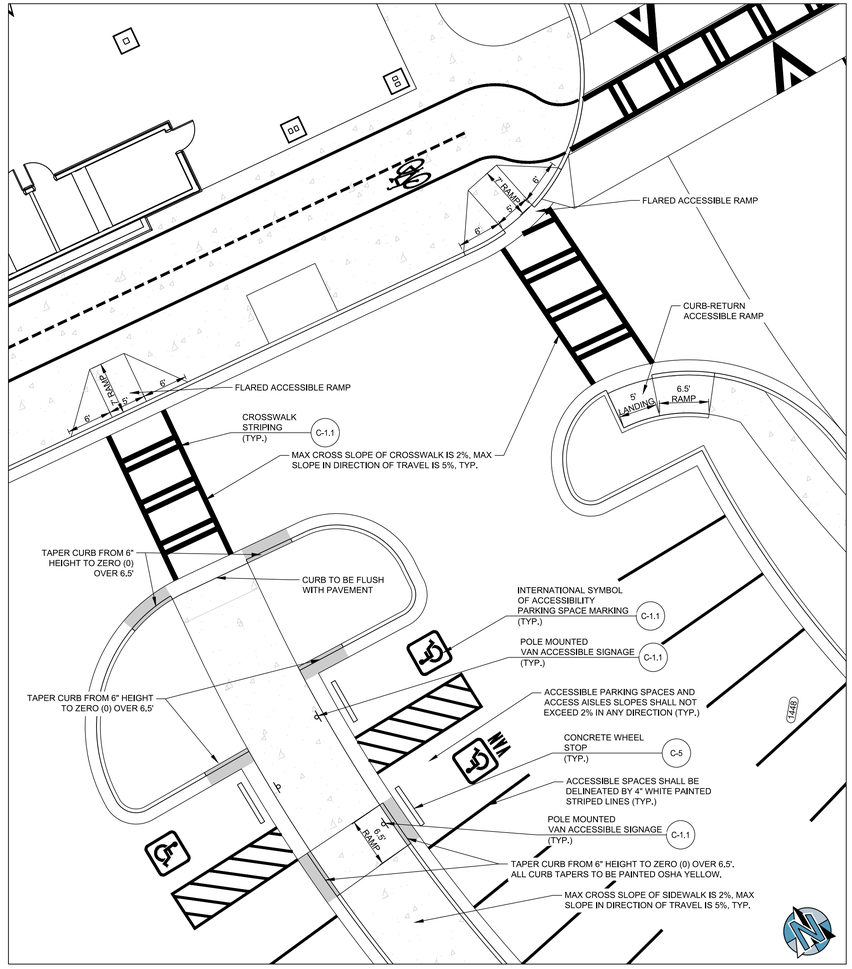
SITE & PAVING PLAN

SHEET NUMBER

C-1



C-1.1 ACCESSIBLE PARKING AND PATH
1" = 10'



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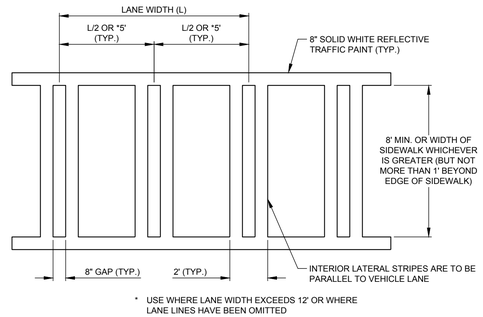
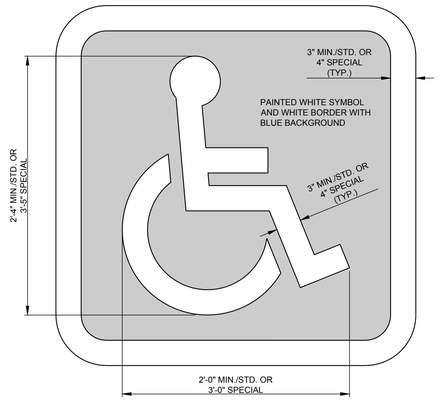
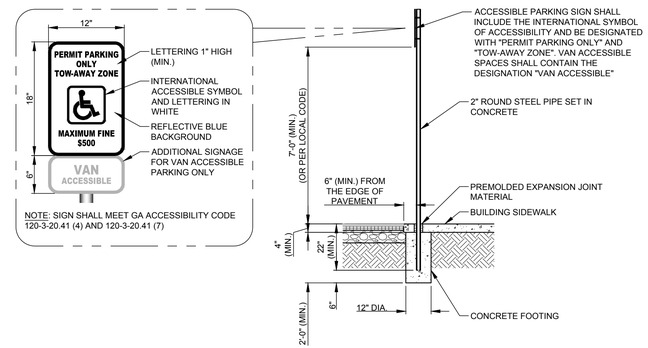


* USE WHERE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

C-1.1 CROSSWALK STRIPING
NOT TO SCALE



C-1.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING
NOT TO SCALE



C-1.1 SIDEWALK POLE MOUNTED ACCESSIBLE SIGNAGE
NOT TO SCALE

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SHEET TITLE
ACCESSIBILITY PLAN AND DETAILS

SHEET NUMBER
C-1.1

GENERAL NOTES:

1) ALL SPOT ELEVATIONS SHOWN ARE AT THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

2) ALL PROPOSED SIDEWALKS SHALL BE BUILT WITH A 1.5% CROSS-SLOPE AWAY FROM THE BUILDING AND NOT EXCEED 2%.

3) ALL HEAD WALL SECTIONS SHALL BE CONSTRUCTED TO BE FLUSH WITH THE EXISTING DITCH BANK AND PROPOSED EMBANKMENT SLOPES.

SITE NOTES:

1) THE CONTRACTOR SHALL CLEAN OUT ACCUMULATED SILT IN STORM WATER CONVEYANCE CHANNELS AND PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.

2) COORDINATE WITH DAWSON COUNTY INSPECTIONS DURING CONSTRUCTION.

3) CONSTRUCT EROSION CONTROL BARRIERS PER DAWSON COUNTY INSPECTOR AND MAINTAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.

4) THE CONTRACTOR SHALL RE-ESTABLISH ALL RIGHT OF WAY AREA WHICH IS DAMAGED OR DISTURBED TO ORIGINAL CONDITIONS OR BETTER DURING AUTHORIZED WORK. ALL WORK IN DAWSON COUNTY RIGHT OF WAY SHALL COMPLY WITH GDOT SPECIFICATIONS.

5) ALL CURBED LANDSCAPE ISLANDS SHALL BE FILLED TO TOP OF CURB WITH TOPSOIL AND SEEDED.

6) MAXIMUM CUT OR FILL SLOPES IS 2H:1V

7) TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING ACTIVITIES.

8) ALL PLASTIC STORM PIPE SHOWN ON THIS PLAN SHALL BE WRAPPED WITH LOCATION WIRE AND TAPE.

9) ALL CMP STORM PIPE SHALL BE TYPE 2 ALUMINIZED. ALL HDPE SHALL BE AASHTO TYPE "S" AND SHALL BE INSTALLED IN ACCORDANCE TO ASTM D2321 OR AASHTO SECTION 30 STANDARD PRACTICES AND AS RECOMMENDED BY THE MANUFACTURER. ALL RCP STORM PIPE SHALL BE CLASS III.

10) IN ALL AREAS OF FILL OR OTHERWISE DISTURBANCE OF EXISTING CONDITIONS, UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FULLY AND COMPLETELY REMOVE AND LEGALLY DISPOSE OFF-SITE, ALL PLANT MATERIALS INCLUDING BUT NOT LIMITED TO ROOT SYSTEMS, CONCRETE, REINFORCED CONCRETE, ASPHALT DEBRIS, UNDERBRUSH, TOPSOIL, AND OTHER DELETERIOUS MATERIAL. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY FOLLOWING FULL REMOVAL OF THESE MATERIALS.

11) REFER TO SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION REPORTS AS PROVIDED BY OWNER FOR RECOMMENDATIONS ASSOCIATED WITH: GENERAL SITE PREPARATION, BUILDING PAD PREPARATION, SUBGRADE PREP, AREAS TO RECEIVE FILL, AREAS TO BE OVEREXCAVATED, PAVEMENT SECTIONS, FILL, SLOPES AND EXCAVATION. THE CONTRACTOR SHALL HAVE THIS REPORT ON THE JOB SITE FOR REFERENCE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE EARTHWORK OPERATIONS AND CONSTRUCTION PHASE MONITORING TO ENSURE THAT ALL COMPACTION IS COMPLETED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PROVIDE TESTING REPORTS TO THE OWNER REGARDING COMPACTION TESTING PER THE TESTING PROTOCOL IN THE GEOTECHNICAL REPORT.

12) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. **24 HR. CONTACT: DAVID MCGHEE (706) 344-3501**

13) NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER PANEL 13085C0103C DATED 2018-04-04

14) DETENTION FACILITIES AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

15) EXTREME CAUTION SHALL BE USED WHEN WORKING WITHIN THE VICINITY OF THE EXISTING OVERHEAD POWER LINES. CONTRACTORS SHALL NOTIFY/COORDINATE WITH GEORGIA POWER COMPANY PRIOR TO CONSTRUCTION.

16) STORM WATER MANAGEMENT SHALL BE IN ACCORDANCE WITH COUNTY, STATE, AND OTHER APPROPRIATE ORDINANCES AND REGULATIONS IN EFFECT AT TIME OF CONSTRUCTION PLAN APPROVAL.

17) IN HEAVY DUTY PAVEMENT AREAS G.A.B. SHALL EXTEND UNDER THE GUTTER TO PROVIDE ADDITIONAL STABILITY FOR TRUCK TRAVEL.

18) CONTRACTOR SHALL INSTALL DOWNSTREAM STORM PIPE CONNECTION PRIOR TO INSTALLATION OF ON-SITE STORM PIPING AND/OR STORM WATER DETENTION FACILITY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE PLANS BY POT HOLING THE LINES. THE CONTRACTOR SHALL HAVE THE LINES SURVEYED, INCLUDING HORIZONTAL AND VERTICAL LOCATION, AND THE SURVEYED POINTS SENT TO THE PROJECT ENGINEER TO DETERMINE IF ANY UTILITY CONFLICTS WILL AFFECT THE CURRENT STORM DRAINAGE DESIGN.

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- KEY NOTE FOR RETAINING WALL ELEVATIONS PROPOSED SPOT ELEVATION FOR TOP OF WALL / BOTTOM OF WALL AT FINISHED SURFACE GRADE (SEE STRUCTURAL FOR FOOTING ELEVATIONS)

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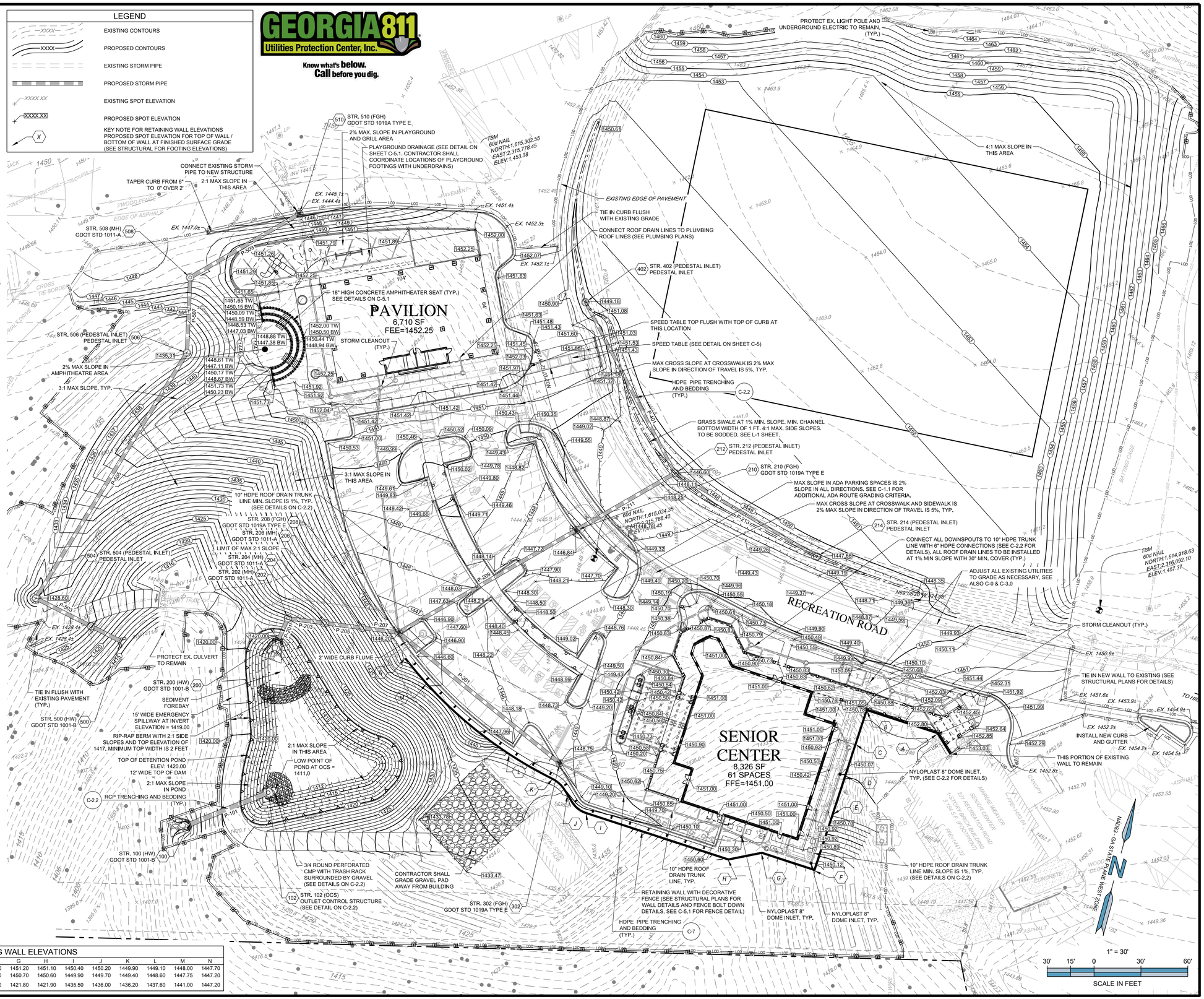

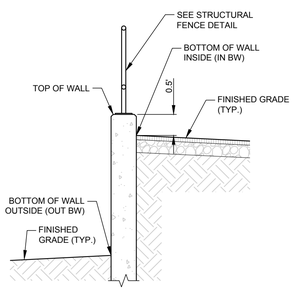

SECTION A-A

RETAINING WALL ELEVATIONS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
TW	1453.30	1451.55	1451.26	1450.65	1451.40	1450.70	1451.20	1451.10	1450.40	1450.20	1449.90	1449.10	1448.00	1447.70
IN BW	1452.80	1451.05	1450.76	1450.15	1450.90	1450.20	1450.70	1450.60	1449.90	1449.70	1449.40	1448.60	1447.75	1447.20
OUT BW	1441.20	1441.30	1440.60	1440.10	1439.00	1439.00	1421.80	1421.90	1435.50	1436.00	1436.20	1437.60	1441.00	1447.20

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FORESITE group

GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

SHEET TITLE

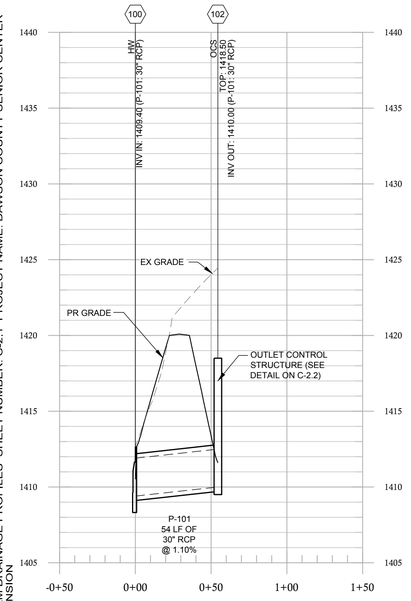
GRADING AND DRAINAGE PLAN

SHEET NUMBER

C-2

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\D\WG\C-2 Grading & Drainage Plan.dwg
SHEET NAME: GRADING AND DRAINAGE PLAN SHEET NUMBER: C-2 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

STORM 100-102
1" = 50' H, 1"=5' V



STORM 200-214
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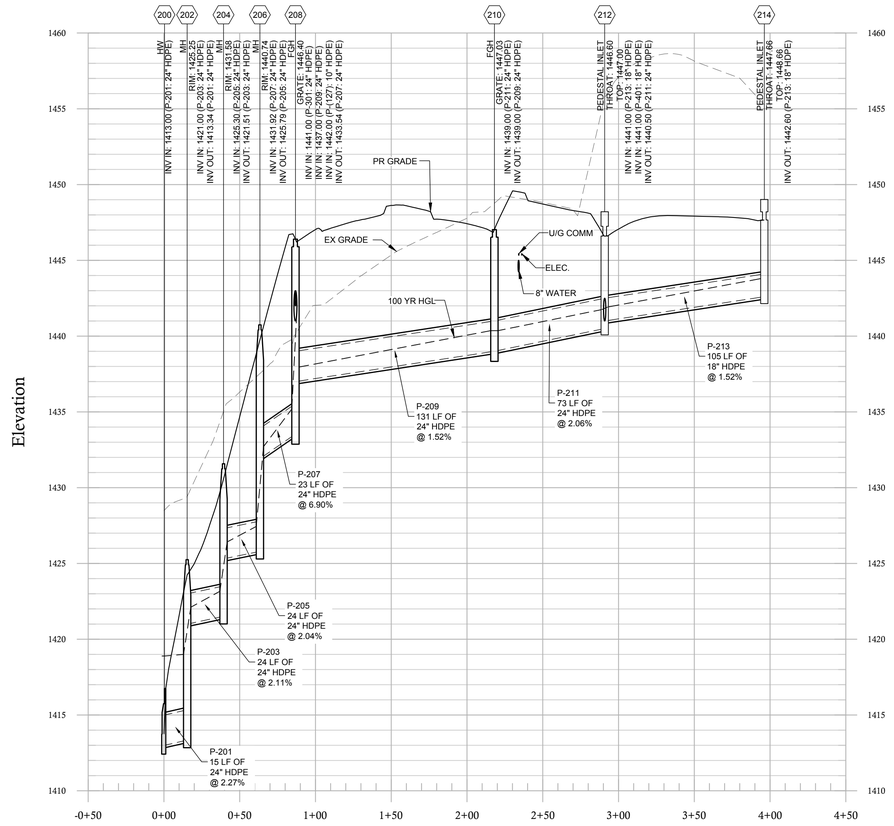

STORM 208-302
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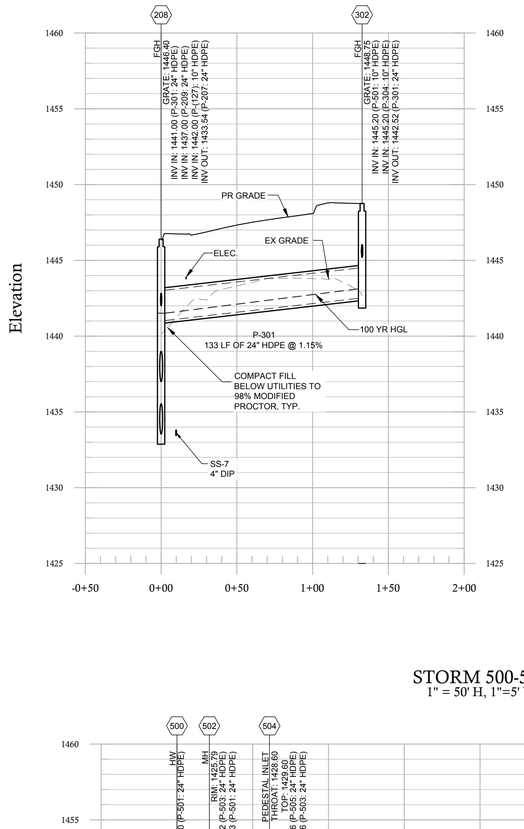

STORM 500-508
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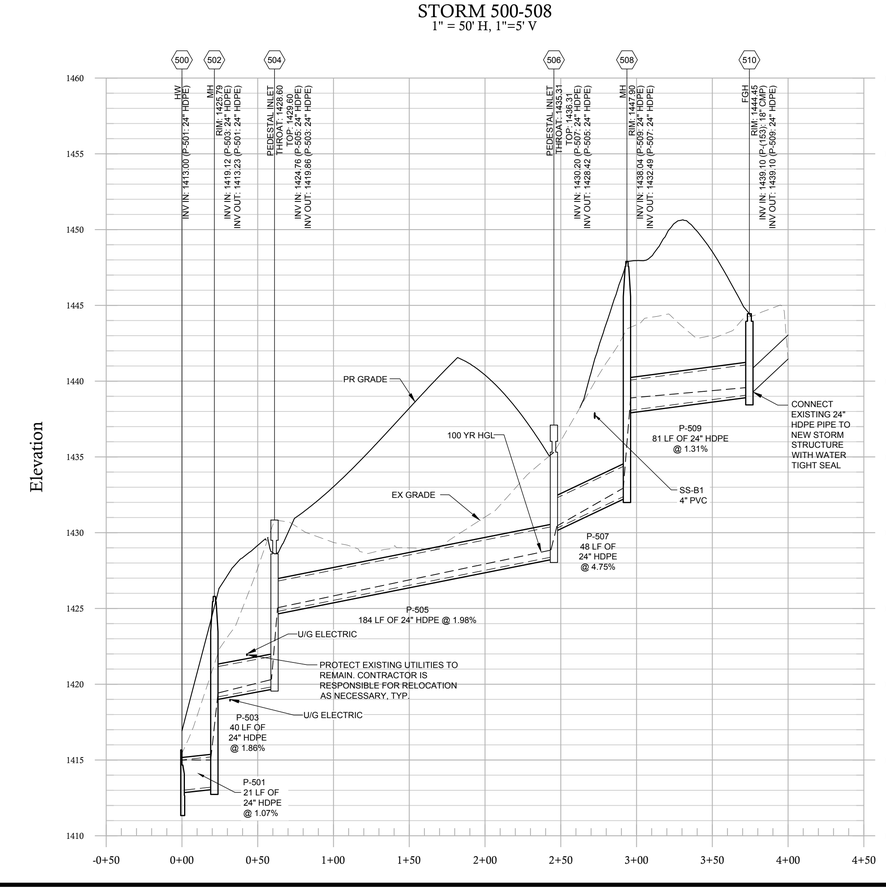
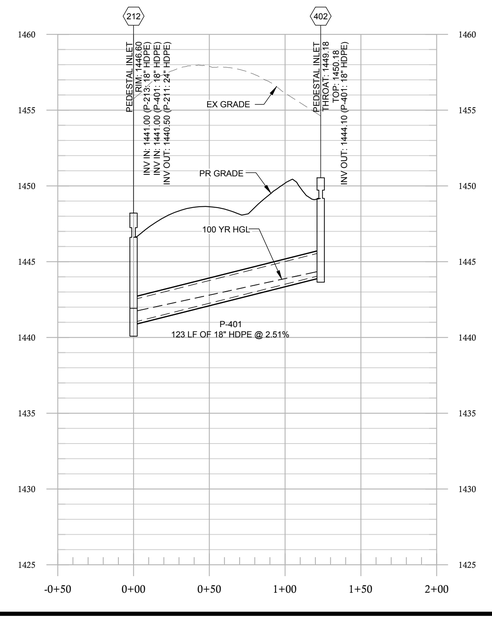


STORM 212-402
1" = 50' H, 1"=5' V



GENERAL NOTES:

1) PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2) EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.

3) CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF UTILITIES IN RIGHT OF WAY TO AVOID CONFLICTS. CONTACT ENGINEER IMMEDIATELY IF FIELD ELEVATIONS DIFFER FROM THE DESIGN DRAWINGS.

4) MAINTAIN MINIMUM 2' OF COVER OVER METAL AND PLASTIC PIPES DURING CONSTRUCTION ACTIVITIES.

5) CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY INFORMATION OF THE CONTROL STRUCUTRE TO THE ENGINEER 4 WEEKS PRIOR TO REQUESTING FINAL ACCEPTANCE. AS-BUILT INFORMATION SHOULD INCLUDE ALL RIM, INVERT, ORIFICE, WEIR, AND BOX DIMENSIONS FOR THE CONTROL STRUCTURES ALONG WITH AS-BUILT TOPOGRAPHY OF THE STORMWATER POND, INCLUDING TOPOGRAPHY BELOW THE WATER SURFACE ELEVATION TO THE BOTTOM OF THE POND. THE AS-BUILT SURVEY INFORMATION SHOULD ALSO INCLUDE THE AS-BUILT INFORMATION FOR THE DISCHARGE PIPE FROM THE OUTLET CONTROL STRUCTURE TO WHERE IT DISCHARGES INTO THE RIGHT OF WAY OR ON-GRADE. ONE REVIEW OF THE AS-BUILT SYSTEM AND STORM MODELING IS COVERED BY THE OWNER. ADDITIONAL ENGINEERING COSTS FOR AS-BUILT REVIEW AND STORM MODELING OF THE DETENTION SYSTEM WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6) IN ORDER TO ADDRESS SAFETY CONSIDERATIONS ASSOCIATED WITH THE DETENTION POND, CONTRACTOR SHOULD INSTALL A 4' HIGH BLACK VINYL COATED CHAIN LINK FENCE AROUND THE DETENTION POND.

1" = 5'
5 2.5 0 5 10
VERTICAL: SCALE IN FEET

1" = 50'
50 25 0 50 100
HORIZONTAL: SCALE IN FEET

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100-YR PIPE CHART:

Line No.	Line ID	Drng Area	Inlet Time	Runoff Coeff	Incr Q	Line Length	Line Type	Line Slope	n-val Pipe	HGL Up	HGL Dn	Vel Ave	Line Size
		(ac)	(min)	(C)	(cfs)	(ft)		(%)		(ft)	(ft)	(ft/s)	(in)
1	201	0.00	0.0	0.00	0.00	14.959	Cir	2.27	0.012	1419.00	1418.89	6.73	24
2	203	0.00	0.0	0.00	0.00	24.000	Cir	2.13	0.012	1423.16	1422.11	9.75	24
3	205	0.00	0.0	0.00	0.00	24.000	Cir	2.04	0.012	1427.44	1426.42	9.66	24
4	207	0.72	5.0	0.80	5.73	23.462	Cir	6.90	0.012	1435.19	1432.71	13.02	24
5	301	0.46	5.0	0.81	3.71	133.000	Cir	1.14	0.012	1443.19	1441.51	4.94	24
6	209	0.35	5.0	0.78	2.72	131.296	Cir	1.52	0.012	1440.36	1437.96	7.86	24
7	211	1.64	5.0	0.34	5.55	72.796	Cir	2.06	0.012	1441.75 j	1440.36	5.62	24
8	213	2.64	5.0	0.37	9.72	105.000	Cir	1.52	0.012	1443.80	1441.92	7.49	18
9	401	0.23	5.0	0.20	0.46	123.000	Cir	2.52	0.012	1444.35 j	1441.75	1.44	18

Line No.	Line ID	Drng Area	Inlet Time	Runoff Coeff	Incr Q	Line Length	Line Type	Line Slope	n-val Pipe	HGL Up	HGL Dn	Vel Ave	Line Size
		(ac)	(min)	(C)	(cfs)	(ft)		(%)		(ft)	(ft)	(ft/s)	(in)
1	501	0.00	0.0	0.00	0.00	21.397	Cir	1.07	0.012	1415.00	1415.00	0.42	24
2	503	0.00	0.0	0.00	0.00	39.717	Cir	1.86	0.012	1420.26	1419.39	4.09	24
3	505	0.00	0.0	0.00	0.00	184.369	Cir	1.99	0.012	1428.85	1425.05	4.35	24
4	507	0.00	0.0	0.00	0.00	48.197	Cir	4.75	0.012	1432.94	1430.44	5.42	24
5	509	0.45	5.0	0.48	1.81	81.000	Cir	1.31	0.012	1439.57	1438.39	4.14	24

DESIGNING ARCHITECT
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ARCHITECT OF RECORD
NELSON
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SHEET TITLE

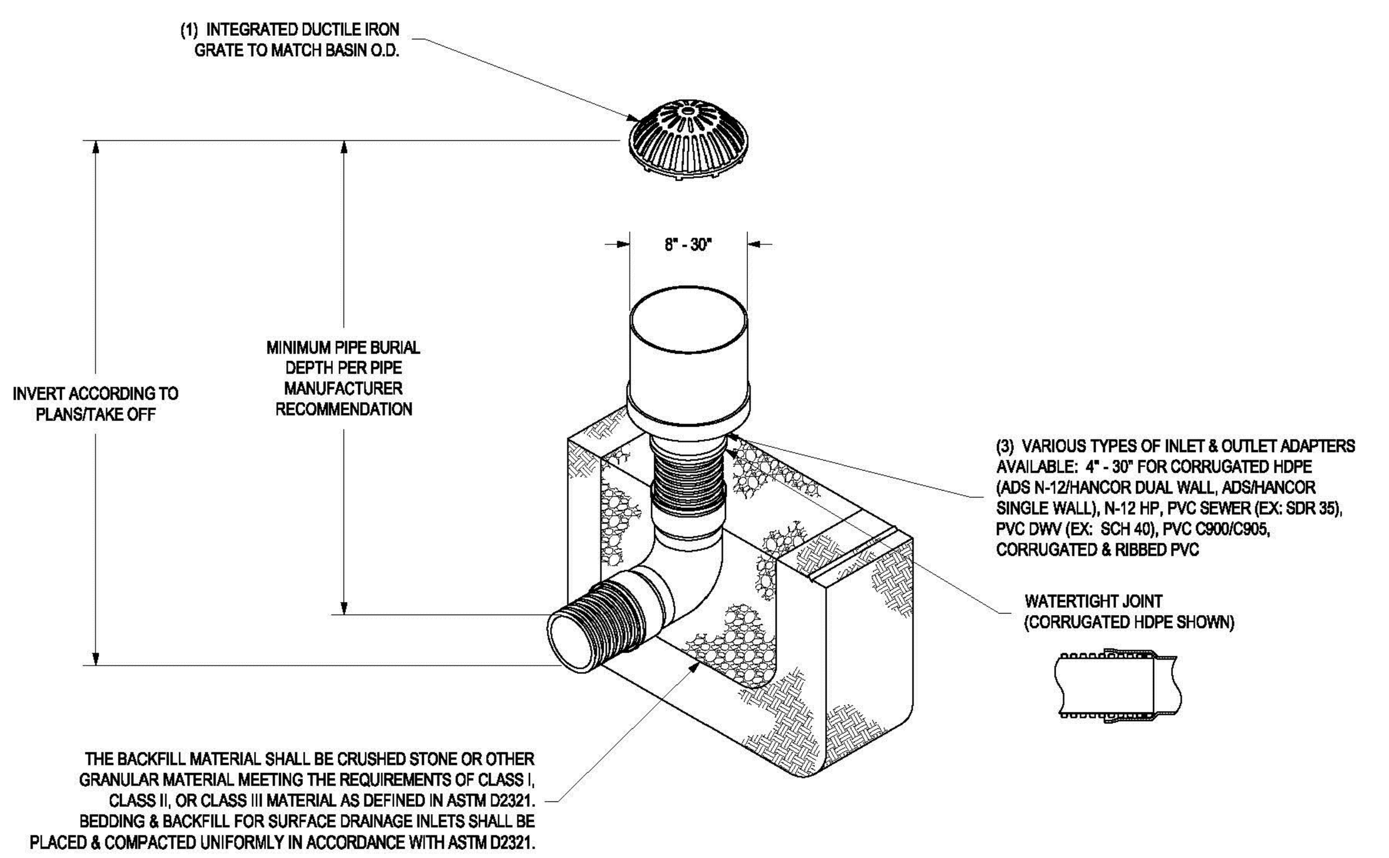
STORM DRAINAGE PROFILES

SHEET NUMBER

C-2.1

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\DWG\C-2.1 Storm Drainage Profiles.dwg
SHEET NAME: STORM DRAINAGE PROFILES SHEET NUMBER: C-2.1 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

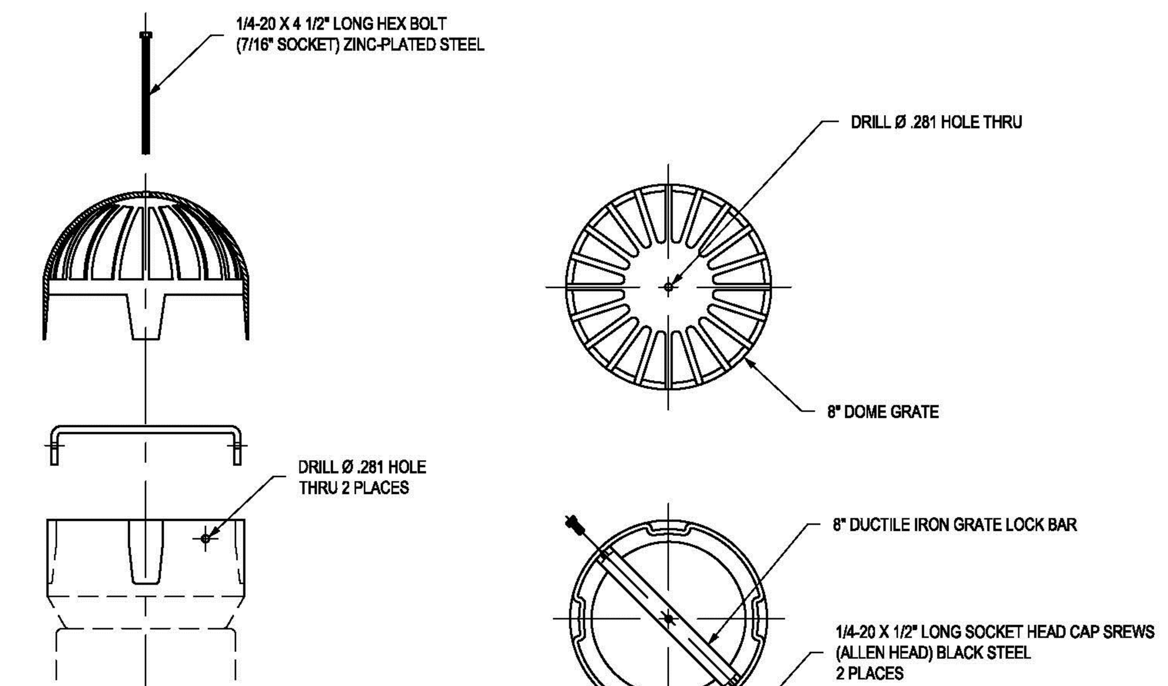
NYLOPLAST INLINE DRAIN WITH DOME GRATE



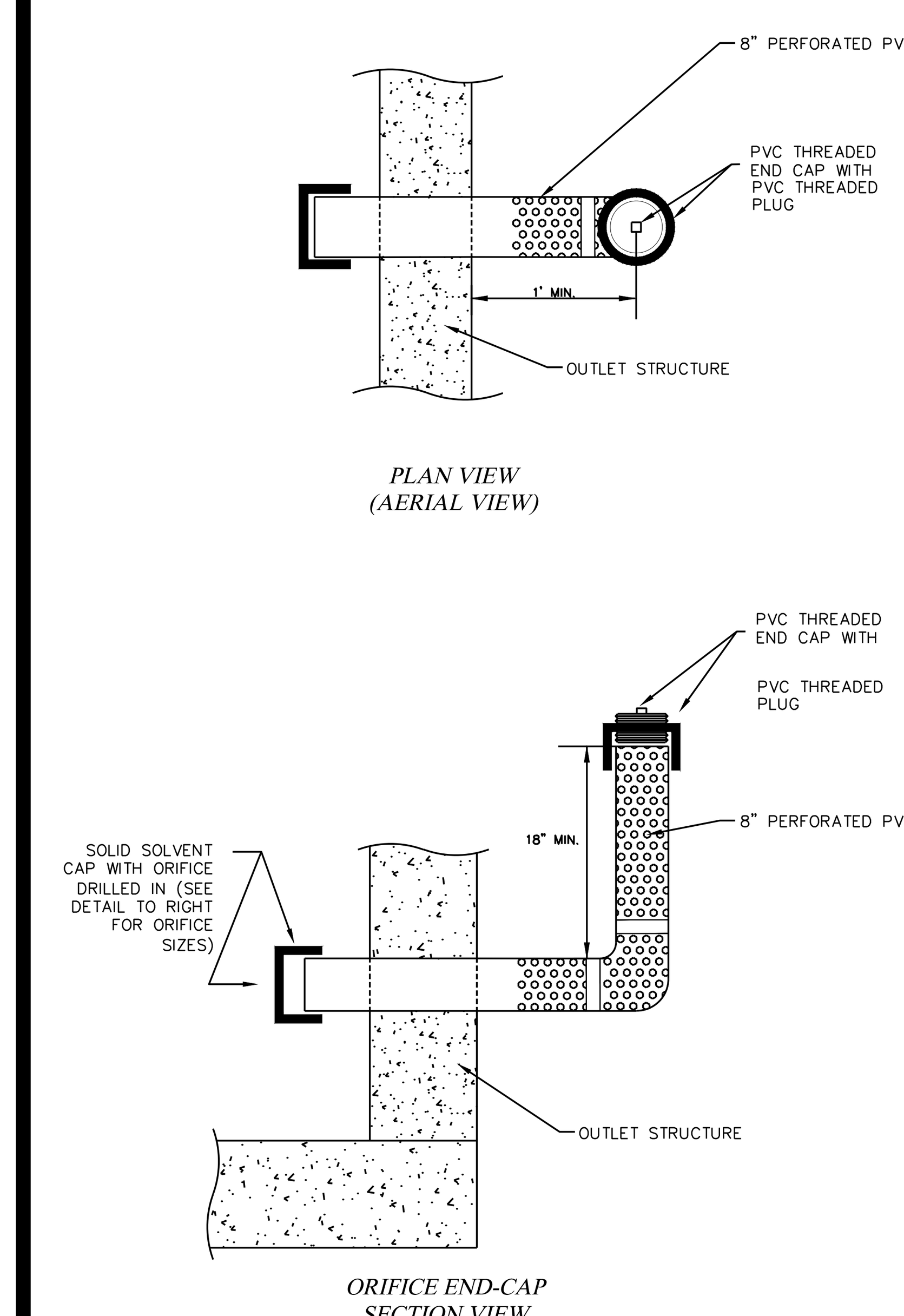
1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
3 - 8" - 30" DOME GRATES HAVE NO LOAD RATING

DRAWN BY EBC | DATE 03-25-10 | REVISED BY NMH | DATE 03-15-16 | DWG SIZE A | SCALE 1:40 | SHEET 1 OF 1 | MATERIAL | PROJECT NO./NAME
Nyloplast 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
TITLE INLINE DRAIN WITH DOME GRATE QUICK SPEC INSTALLATION DETAIL
DWG NO. 7003-110-057 REV D

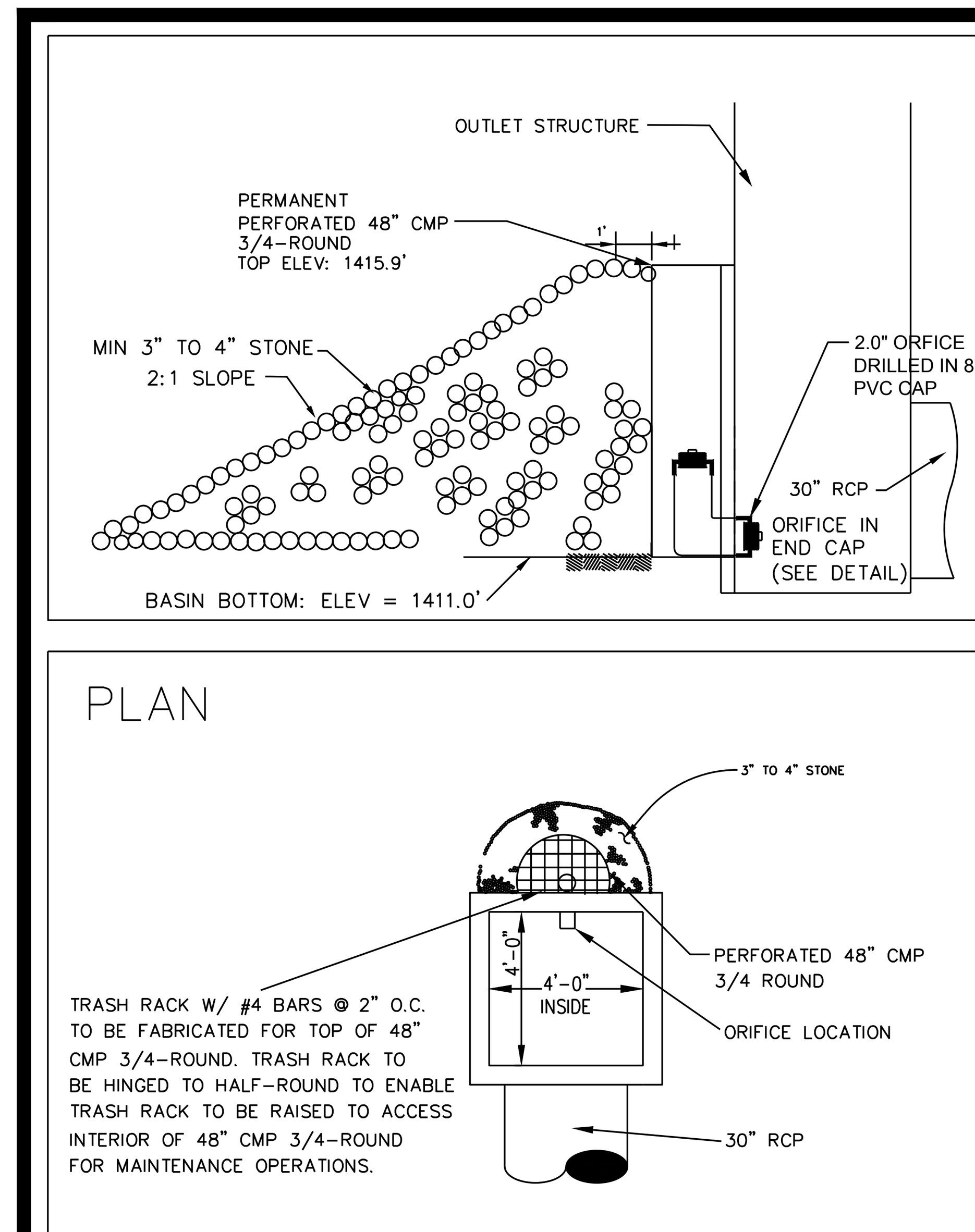
0899CGDL



DRAWN BY EBC | DATE 2-20-06 | REVISED BY EBC | DATE 3-14-10 | DWG SIZE A | SCALE 1:6 | SHEET 1 OF 1 | MATERIAL | PROJECT NO./NAME
Nyloplast 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
TITLE 8 IN DOME LOCKING GRATE ASSEMBLY
DWG NO. 7001-110-228 REV B



ORIFICE END-CAP DETAILS NOT TO SCALE



NOTE: MAXIMUM TRASH RACK OPENING TO BE 1.0".

OUTLET STRUCTURE 102:
TRASH RACK / 3/4-ROUND
(FOR WQ ORIFICE)
NOT TO SCALE

WHEN ARE INLINE DRAINS USED?

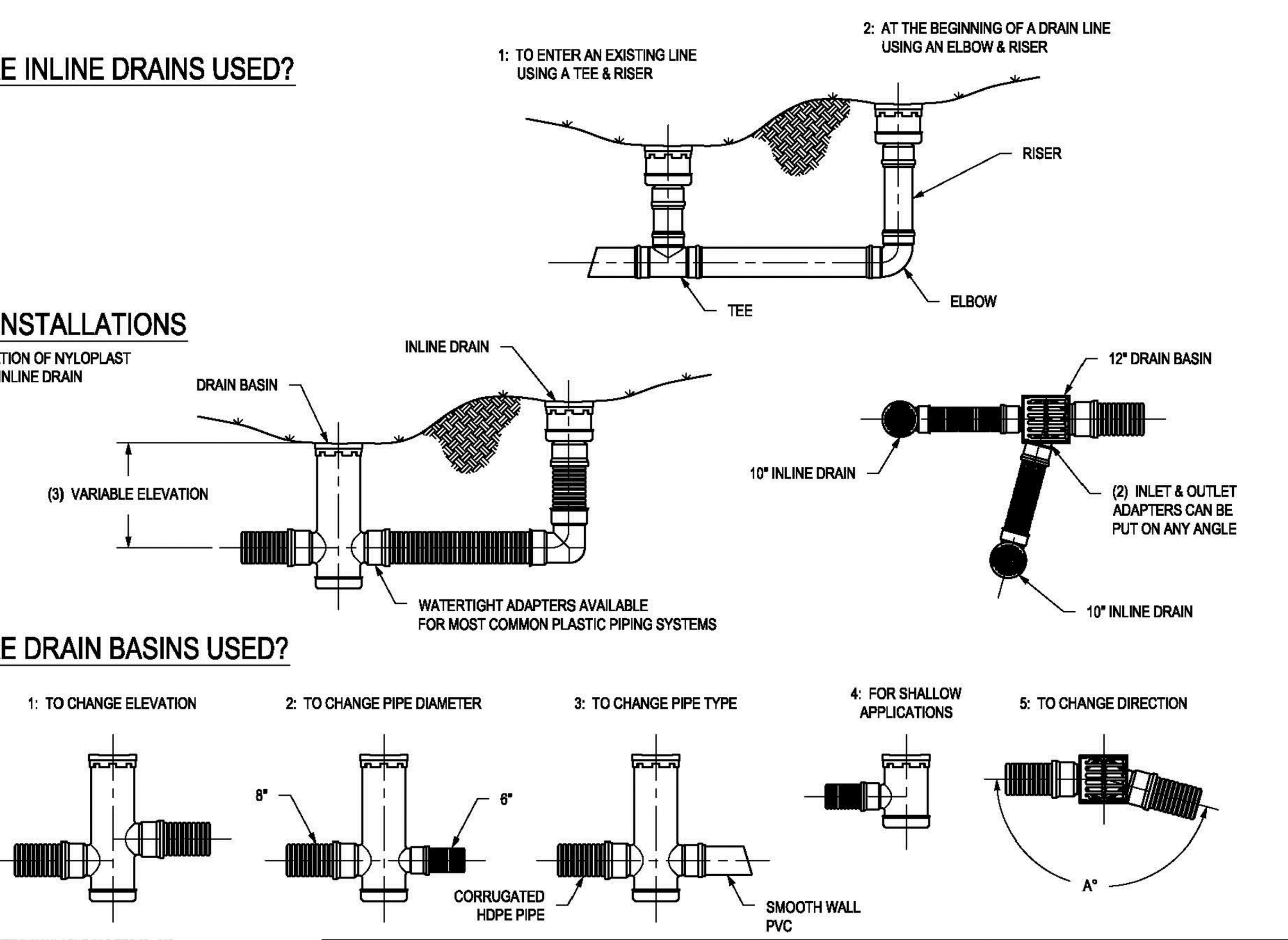
2708AG _ _ X
2710AG _ _ X
2712AG _ _ X
2715AG _ _ X
2718AG _ _ X
2724AG _ _ X
2730AG _ _ X

TYPICAL INSTALLATIONS

TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN

WHEN ARE DRAIN BASINS USED?

2808AG _ _ X
2810AG _ _ X
2812AG _ _ X
2815AG _ _ X
2818AG _ _ X
2824AG _ _ X
2830AG _ _ X



1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 30"
2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065

DRAWN BY AWA | DATE 8-10-00 | REVISED BY EBC | DATE 1-6-10 | DWG SIZE A | SCALE 1:40 | SHEET 1 OF 1 | MATERIAL | PROJECT NO./NAME
Nyloplast 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
TITLE 8 IN - 30 IN TYPICAL INSTALLATION OPTIONS
DWG NO. 7001-110-042 REV D

Section 2722

Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

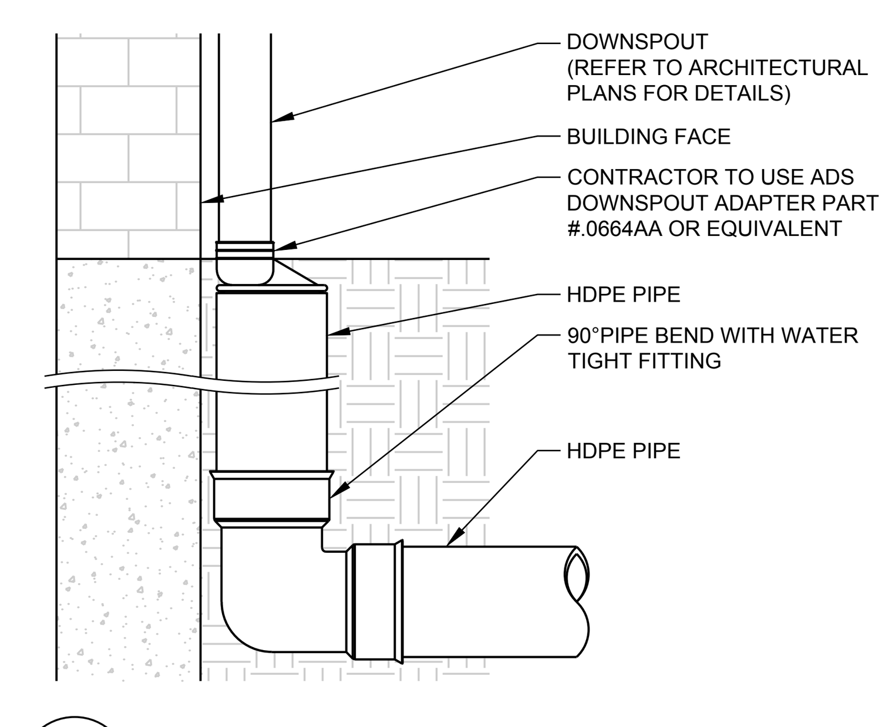
MATERIALS
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a **swage mechanical joint**. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

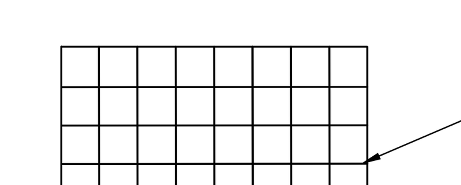
DRAWN BY CJA | DATE 03-10-00 | REVISED BY NMH | DATE 03-15-16 | DWG SIZE A | SCALE 1:1 | SHEET 1 OF 1 | MATERIAL | PROJECT NO./NAME
Nyloplast 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
TITLE 8 IN - 30 IN INLINE DRAIN SPECIFICATIONS
DWG NO. 7003-110-009 REV H

C-2.2 NYLOPLAST DETAILS
NOT TO SCALE

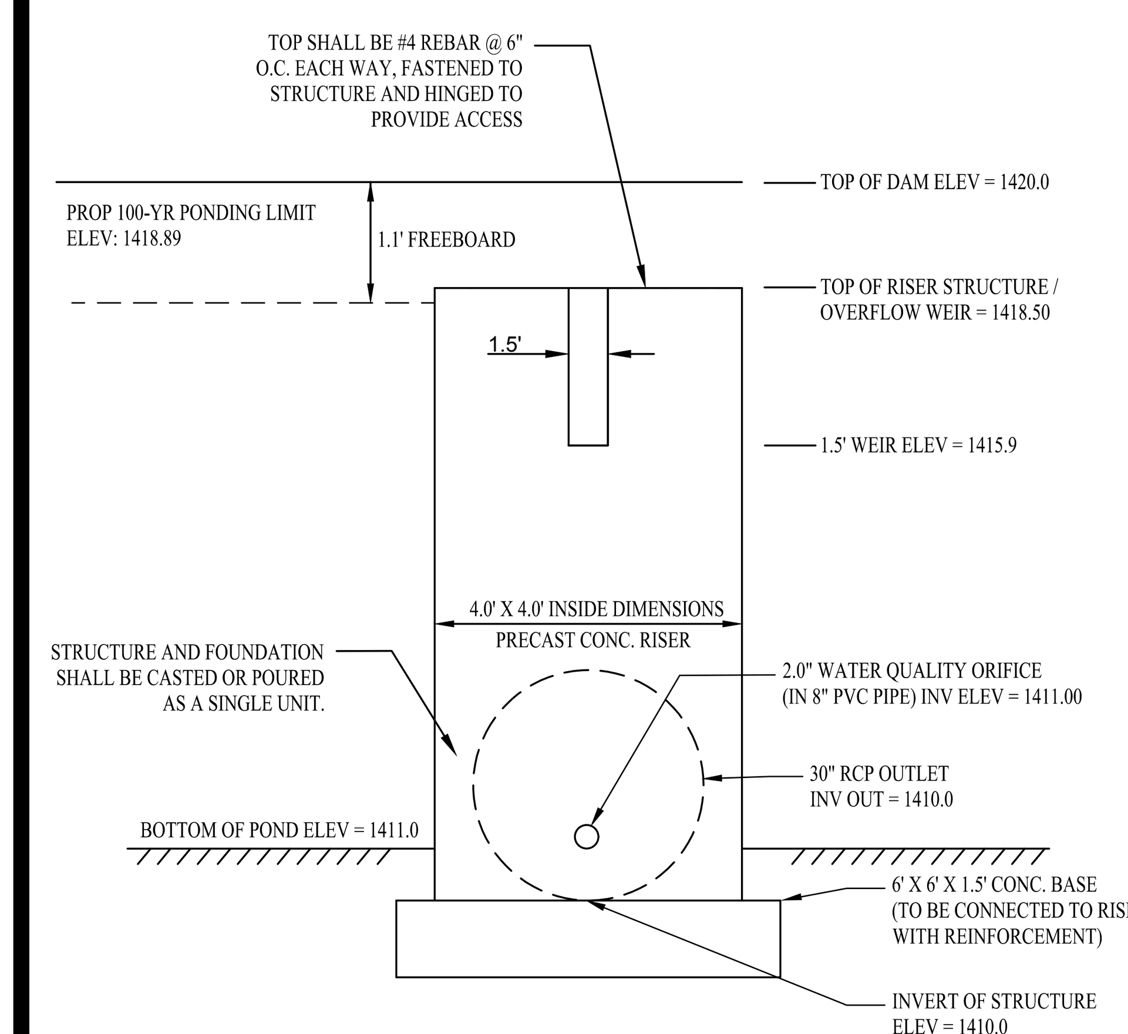


C-2.2 DOWNSPOUT CONNECTION
NOT TO SCALE

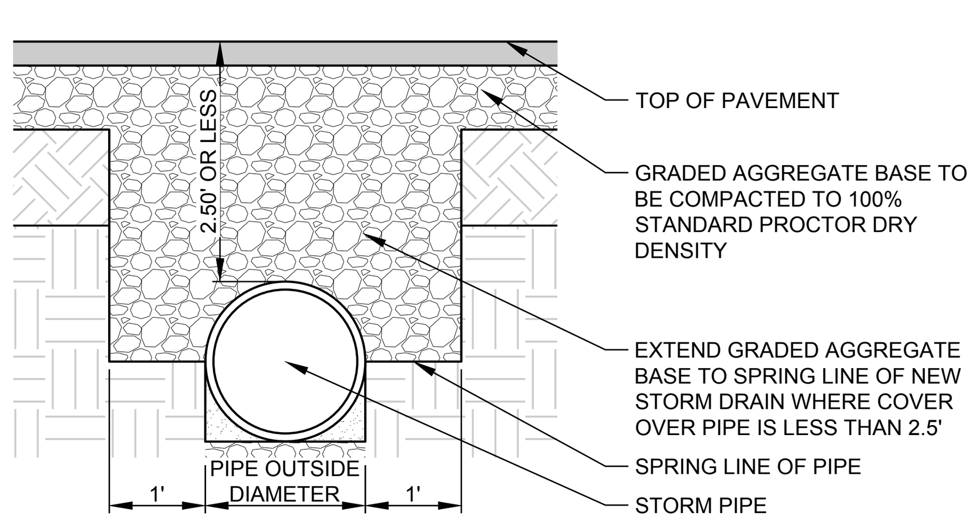
OCS TOP DETAIL



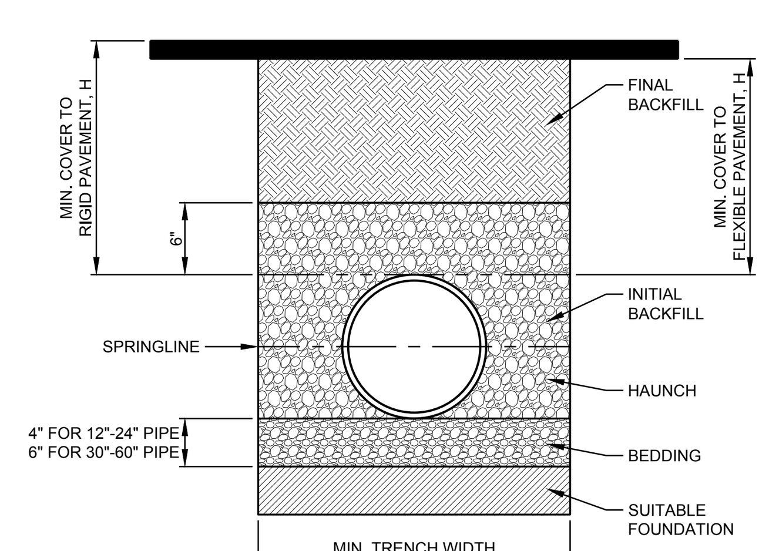
TOP SHALL BE #4 REBAR @ 6" O.C. EACH WAY, FASTENED TO STRUCTURE AND HINGED TO PROVIDE ACCESS



OUTLET STRUCTURE 102
4.0' X 4.0' INSIDE DIMENSION
NOT TO SCALE
(STRUCTURAL DESIGN TO BE PERFORMED BY OTHERS)



C-2.2 STORM PIPE MINIMUM COVER
NOT TO SCALE



NOTES:
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS

	SURFACE LIVE LOADING CONDITION	
PIPE DIAM.	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80**
UP TO 24"	24"
30"-36"	36"
42"-60"	48"

** COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE.
*** E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.

C-2.2 HDPE BEDDING, TRENCHING, AND BACKFILL
NOT TO SCALE

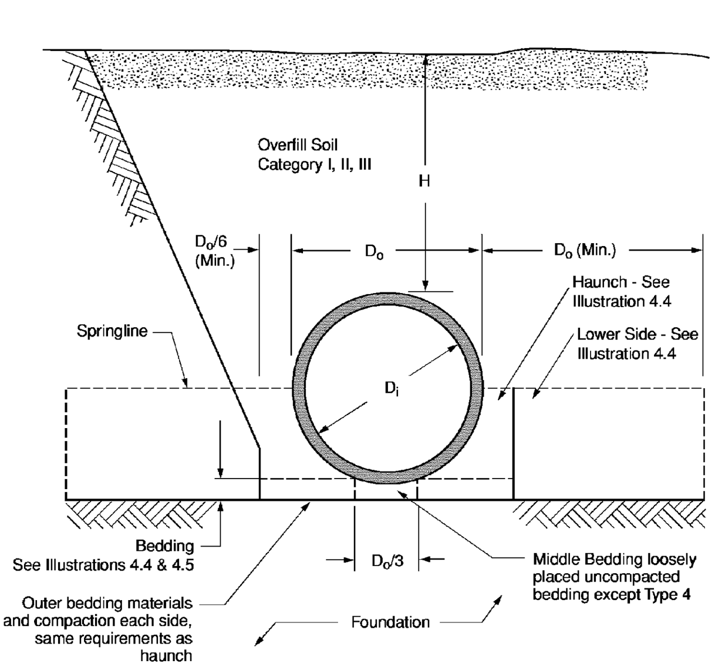


Illustration 4.3 Standard Trench/Embankment Installation
The SPIDA design runs with the Standard Installations were made with medium compaction of the bedding under the middle-third of the pipe, and with some compaction of the overfill above the springline of the pipe. This middle-third area under the pipe in the Standard Installations has been designated as loosely placed, uncompacted material. The intent is to maintain a slightly yielding bedding under the middle-third of the pipe so that the pipe may settle slightly into the bedding and achieve improved load distribution. Compactive efforts in the

Installation Type	Bedding Thickness	Haunch and Outer Bedding	Lower Side
Type 1	Do/24 minimum, not less than 75 mm (3"). If rock foundation, use Do/12 minimum, not less than 150 mm (6").	95% Category I	90% Category I, 95% Category II, or 100% Category III
Type 2	Do/24 minimum, not less than 75 mm (3"). If rock foundation, use Do/12 minimum, not less than 150 mm (6").	90% Category I or 95% Category II	85% Category I, 90% Category II, or 95% Category III
Type 3	Do/24 minimum, not less than 75 mm (3"). If rock foundation, use Do/12 minimum, not less than 150 mm (6") .	85% Category I, 90% Category II, or 95% Category III	85% Category I, 90% Category II, or 95% Category III
Type 4	No bedding required, except if rock foundation, use Do/12 minimum, not less than 150 mm (6").	No compaction required, except if Category III, use 85% Category III	No compaction required, except if Category III, use 85% Category III

Notes:
1. Compaction and soil symbols - i.e. "95% Category I"- refers to Category I soil material with minimum standard Proctor compaction of 95%. See Illustration 4.5 for equivalent modified Proctor values.
2. Soil in the outer bedding, haunch, and lower side zones, except under the middle1/3 of the pipe, shall be compacted to at least the same compaction as the majority of soil in the overfill zone.
3. For trenches, top elevation shall be no lower than 0.1 H below finished grade or, for roadways, its top shall be no lower than an elevation of 1 foot below the bottom of the pavement base material.
4. For trenches, width shall be wider than shown if required for adequate space to attain the specified compaction in the haunch and bedding zones.
5. For trench walls that are within 10 degrees of vertical, the compaction or firmness of the soil in the trench walls and lower side zone need not be considered.
6. For trench walls with greater than 10 degree slopes that consist of embankment, the lower side shall be compacted to at least the same compaction as specified for the soil in the backfill zone.
*7. **Subtrenches***
7.1 A subtrench is defined as a trench with its top below finished grade by more than 0.1 H or, for roadways, its top is at an elevation lower than 1ft. below the bottom of the pavement base material.
7.2 The minimum width of a subtrench shall be 1.33 D_o or wider if required for adequate space to attain the specified compaction in the haunch and bedding zones.
7.3 For subtrenches with walls of natural soil, any portion of the lower side zone in the subtrench wall shall be at least as firm as an equivalent soil placed to the compaction requirements specified for the lower side zone and as firm as the majority of soil in the overfill zone, or shall be removed and replaced with soil compacted to the specified level.

C-2.2 RCP BEDDING, TRENCHING, AND BACKFILL
NOT TO SCALE

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SHEET TITLE
STORM DRAINAGE DETAILS

SHEET NUMBER
C-2.2

LEGEND

EXISTING FENCE LINE	
PROPERTY LINE	
EXISTING CABLE TELEVISION LINE	CATV
EXISTING FIBER OPTIC LINE	UGF
EXISTING OVERHEAD POWER LINE	OHP
EXISTING UNDERGROUND POWER LINE	UGE
EXISTING UNDERGROUND TELEPHONE LINE	UGT
EXISTING GAS LINE	GAS
EXISTING SANITARY SEWER LINE	S
EXISTING WATER LINE	W
EXISTING STORM LINE	
PROPOSED CABLE TELEVISION LINE	CATV
PROPOSED FIBER OPTIC LINE	UGF
PROPOSED OVERHEAD POWER LINE	OHP
PROPOSED UNDERGROUND POWER LINE	UGE
PROPOSED UNDERGROUND TELEPHONE LINE	UGT
PROPOSED GAS LINE	GAS
PROPOSED SANITARY SEWER LINE	S
PROPOSED WATER LINE	W
PROPOSED FIRE WATER LINE	FW
PROPOSED STORM LINE	

WATER SPIGOT AND CONTROL VALVE. LINES SERVICING SPIGOT NOT TRACEABLE. CONTRACTOR IS RESPONSIBLE TO LOCATE WATER LINES PRIOR TO CONSTRUCTION AND RELOCATE AS NECESSARY TO ACCOMODATE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO ANY UTILITY DISRUPTION. THERE MAY BE OTHER UTILITIES NOT SHOWN HEREON THAT REQUIRE RELOCATION. CONTRACTOR IS FULLY RESPONSIBLE FOR COST AND COORDINATION.

PVC WATER NOT TRACEABLE

SPIGOT

TBM 60d NAIL NORTH:1,615,302.55 EAST:2,315,778.45 ELEV:1,453.38

RIP-RAP

EDGE OF ASPHALT

1,500 GALLON DUAL COMPARTMENT SEPTIC TANK WITH FILTER, SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO ON-SITE SEWAGE MANAGEMENT SYSTEM DESIGN PLANS BY MILL CREEK ENVIRONMENTAL FOR EXACT INFORMATION.

CROSS TIE BORDER

SS-B2 (CO) B2

SS-B1

SS-B3

SS-B4 (CO) B4

SS-B5

SS-B6 (MH) B6

SS-B7.0

ELECTRIC METER AND MAIN DISCONNECT (SEE ARCHITECTURAL PLANS FOR DETAILS AND EXACT LOCATION)

SEPTIC SYSTEM INCLUDING TANK, LINES FROM TANK TO ABSORPTION FIELD AND ABSORPTION FIELD SHOWN FOR COORDINATION PURPOSES AND IS TO BE DESIGNED AND PERMITTED BY OTHERS. REFER TO ON-SITE SEWAGE MANAGEMENT SYSTEM DESIGN PLANS BY MILL CREEK ENVIRONMENTAL FOR EXACT INFORMATION.

PAVILION
6,710 SF
FEE=1452.25

SS-B11

SS-B9

SS-B8 (CO) B8

SS-B10 (CO) B10

SS-B7.5

REROUTED COMMUNICATION SERVICE LINE

SANITARY SEWER MANHOLE (TYP.) C-6.1

ASPHALT TRAIL

ELECTRIC SERVICE REROUTED TO SHED

SS-7

SS-8 (MH) 8

SS-6 (CO) 6

SS-9

SS-8 (CO) 8

SANITARY SEWER CLEANOUT (TYP.) C-6.1

SS-4 (CO) 4

SS-3

SS-2 (CO) 2

SS-1

SS-11

SS-16 (TEST MH) 16

SS-14 (CO) 14

SS-13

SS-12 (CO) 12

SS-27

SS-25

SS-18

SS-23

SS-21

SS-17

SENIOR CENTER
8,326 SF
61 SPACES
FFE=1451.00

3" PVC DOMESTIC WATER LINE

ADJUST COMMUNICATION PEDESTAL TO GRADE

SANITARY WASTE LINE CONNECTION (SEE PLUMBING PLANS FOR EXACT LOCATION)

8" WATER TERMINATION (SEE DETAIL ON C-6)

8" DIP PRESSURE CLASS 350 WATER LINE WITH MINIMUM 48" COVER, TYP. (BEDDING PER CLASS B BEDDING DETAIL ON C-6)

2" WATER LINE

2" DOUBLE CHECK VALVE BACKFLOW PREVENTOR IN VAULT(PAID FOR AND INSTALLED BY CONTRACTOR)

2" WATER METER IN VAULT (PAID FOR AND INSTALLED BY CONTRACTOR, METER PROVIDED BY ETOWAH WATER AND SEWER)

APPROXIMATE ROUTE OF ELECTRIC LINE TO PAVILION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ELECTRICAL ENGINEER AND SERVICE PROVIDER TO PROVIDE THE REQUIRED CONDUITS AND SERVICE LINE, TYP.

8" X 2" TAPPING SADDLE AND GATE VALVE

PROVIDE THRUST BLOCKS AT ALL BENDS, TYP. (SEE DETAILS ON C-6)

FIRE HYDRANT ASSEMBLY (TYP.) C-6

GATE VALVE (TYP.) C-6

8" X 1" TAPPING SADDLE AND GATE VALVE

6" X 8" X 3" TEE AND GATE VALVE

3" WATER METER IN VAULT (PAID FOR AND INSTALLED BY CONTRACTOR, METER PROVIDED BY ETOWAH WATER AND SEWER)

3" DOUBLE CHECK VALVE BACKFLOW PREVENTOR IN VAULT(PAID FOR AND INSTALLED BY CONTRACTOR)

1" IRRIGATION METER

TBM 60d NAIL NORTH:1,615,034.35 EAST:2,315,788.43 ELEV:1,448.45

APPROXIMATE LOCATION OF NEW TRANSFORMER ON 10'X10' PAD. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH POWER SERVICE PROVIDER FOR EXACT LOCATION AND SPECIFICATIONS OF PAD AND CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF INSTALLATION OF NEW CONCRETE PAD AND TRANSFORMER. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH POWER COMPANY TO DETERMINE THAT ONE TRANSFORMER IS SUFFICIENT TO SERVE THE EXISTING SENIOR CENTER BUILDING, NEW SENIOR CENTER BUILDING, PAVILION AND EXISTING MAINTENANCE SHED AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

ELECTRICAL SERVICE CONNECTION (CONTRACTOR TO COORDINATE WITH GEORGIA POWER COMPANY)

TELEPHONE SERVICE CONNECTION (CONTRACTOR TO COORDINATE WITH ALLTEL)

UTILITIES MAY REQUIRE RELOCATION TO ACCOMODATE NEW STORM PIPES. CONTRACTOR RESPONSIBLE FOR COST & COORDINATION.

N89°08'20"W 324.98'

TBM 60d NAIL NORTH:1,614,918.63 EAST:2,316,092.10 ELEV:1,457.37

EXISTING UNDERGROUND TELEPHONE LINE (TYP.)

EXISTING LIGHT POLE (TYP.)

RECREATION ROAD

GAS SERVICE CONNECTION (CONTRACTOR TO COORDINATE WITH ATLANTA GAS LIGHT)

20' WIDE PERMANENT WATER EASEMENT, TYP

TO HIGHWAY 9

8" DIP PRESSURE CLASS 350 WATER LINE WITH MINIMUM 48" COVER, TYP. (BEDDING PER CLASS B BEDDING DETAIL ON C-6)

6" TO 8" REDUCER

GATE VALVE (TYP.) C-6

APPROXIMATE LOCATION OF 6" PVC WATER MAIN

THRUST BLOCK (TYP.) C-6

WET TAP WITH TAPPING SLEEVE AND VALVE WATER SERVICE CONNECTION.(UTILITY CONTRACTOR TO COORDINATE WITH ETOWAH WATER AND SEWER PRIOR TO COMMENCEMENT OF CONSTRUCTION UTILITY CONTRACTOR AND EWSA WILL COORDINATE TIE-IN TO EXISTING WATER MAIN IN THE FIELD AT THE START OF CONSTRUCTION.)

EXISTING FIRE HYDRANT

TYPE IV PAVEMENT REPAIR (TYP.) C-6.1

6"PVC WATER MAIN NOT TRACEABLE

CONTRACTOR SHALL REMOVE AND RELOCATE ALL EXISTING UTILITIES AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION AND ADJUST ALL EXISTING VALVES AND UTILITY PEDESTALS TO FINISHED GRADE AS NECESSARY. CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATION WITH UTILITY PROVIDERS AND COSTS ASSOCIATED WITH RELOCATIONS AND/OR MODIFICATIONS.

CONTRACTOR SHALL COORDINATE DEPTH OF UTILITIES WITH COLUMN FOUNDATIONS AND MAKE SURE UTILITIES ARE AT LEAST 2 FEET BELOW FOUNDATIONS, TYP.

(3) 4" SCH 80 PVC FROM TRANSFORMER TO METER

(2) 4" PVC FOR COMMUNICATION FROM SERVICE CONNECTION TO BUILDING

GAS METER AND PRESSURE REGULATOR (SEE ARCHITECTURAL PLANS FOR DETAILS AND EXACT LOCATION)

DOMESTIC WATER CONNECTION (SEE ARCHITECTURAL PLANS FOR DETAILS AND EXACT LOCATION)

APPROXIMATE SEPTIC TANK PER RECORDS PROVIDED BY CLIENT

ELECTRIC METER AND MAIN DISCONNECT (SEE ARCHITECTURAL PLANS FOR DETAILS AND EXACT LOCATION)

GREASE WASTE LINE CONNECTION (SEE PLUMBING PLANS FOR EXACT LOCATION)

NEW 4" SCH 40 PVC SANITARY SEWER LINE TO NEW ABSORPTION FIELD FOR EXISTING SENIOR CENTER

SEPTIC SYSTEM INCLUDING TANK, LINES FROM TANK TO ABSORPTION FIELD AND ABSORPTION FIELD SHOWN FOR COORDINATION PURPOSES AND IS TO BE DESIGNED AND PERMITTED BY OTHERS. REFER TO ON-SITE SEWAGE MANAGEMENT SYSTEM DESIGN PLANS BY MILL CREEK ENVIRONMENTAL FOR EXACT INFORMATION.

APPROXIMATE SEPTIC TANK PER RECORDS PROVIDED BY CLIENT

SS-22 (CO) 22

SS-20 (CO) 20

SS-16 (GI) 14

1,000 GALLON GREASE TRAP WITH TEST MANHOLE, SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO ON-SITE SEWAGE MANAGEMENT SYSTEM DESIGN PLANS BY MILL CREEK ENVIRONMENTAL FOR EXACT INFORMATION.

SEPTIC SYSTEM INCLUDING TANK, LINES FROM TANK TO ABSORPTION FIELD AND ABSORPTION FIELD SHOWN FOR COORDINATION PURPOSES AND IS TO BE DESIGNED AND PERMITTED BY OTHERS. REFER TO ON-SITE SEWAGE MANAGEMENT SYSTEM DESIGN PLANS BY MILL CREEK ENVIRONMENTAL FOR EXACT INFORMATION.

1,500 GALLON DUAL COMPARTMENT SEPTIC TANK WITH FILTER, SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO ON-SITE SEWAGE MANAGEMENT SYSTEM DESIGN PLANS BY MILL CREEK ENVIRONMENTAL FOR EXACT INFORMATION.

APPROXIMATE EXISTING PROPERTY LINE (TYP.)

NAD83 GA STATE PLANE WEST ZONE

1" = 30'

30' 15' 0 30' 60'

SCALE IN FEET

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UTILITY NOTES:

1) GEORGIA POWER COMPANY WILL PROVIDE UNDERGROUND ELECTRICAL SERVICE FROM THE EXISTING SERVICE POLE TO THE TRANSFORMER PAD. CONTRACTOR MUST PROVIDE TWO 6" PVC (SCH 80) CONDUITS AND A PULL STRING FROM THE EXISTING ELECTRICAL SERVICE POLE TO THE PROPOSED TRANSFORMER LOCATION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING THREE 4" PVC CONDUITS AND SECONDARY WIRING FROM THE TRANSFORMER PAD TO THE PROPOSED BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE POWER SERVICE INSTALLATION AND SHALL COORDINATE WITH THE POWER COMPANY FOR FINAL UNDERGROUND CONDUIT LOCATIONS.

2) SOUTHEN COMPANY GAS WILL PERFORM THE GAS SERVICE CONNECTION, INSTALL THE CONDUIT, AND SET THE METER FOR THE BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SERVICE FROM THE METER INTO THE PROPOSED BUILDING. CONTRACTOR MUST COORDINATE WITH SOUTHEN COMPANY GAS.

3) CONTRACTOR MUST PROVIDE AND INSTALL TWO (2) 4" PVC CONDUITS WITH PULL STRING, FROM THE EXISTING TELEPHONE SERVICE POLE TO THE TELEPHONE BOARD IN THE BUILDING. THE CONTRACTOR MUST ALSO PROVIDE A #6 GROUND WIRE AT THE TELEPHONE BOARD FOR THE TELEPHONE COMPANY TO INSTALL A PHONE LINE.

4) ETOWAH WATER AND SEWER AUTHORITY WILL FURNISH THE DOMESTIC WATER METER. THE CONTRACTOR MUST TAP THE EXISTING WATER LINE, PROVIDE AND INSTALL THE METER BOX, DOUBLE CHECK BACKFLOW PREVENTER AND ENCLOSURE, AND THE WATER SERVICE LINE FROM THE WATER METER TO THE BUILDING. WATER METERS TO BE PAID FOR BY COUNTY AND INSTALLED BY CONTRACTOR.

5) THE CONTRACTOR WILL INSTALL THE IRRIGATION METER FOR FUTURE USE NO IRRIGATION TO BE PROVIDED AS PART OF THIS PROJECT. WATER METERS TO BE PAID FOR BY COUNTY AND COORDINATED AND INSTALLED BY CONTRACTOR.

6) COORDINATE AS REQUIRED WITH DAWSON COUNTY INSPECTIONS DURING CONSTRUCTION FOR REQUIRED INSPECTIONS.

7) THIS SITE INDICATES POTABLE WATER SERVICE AND SANITARY SEWER LATERALS. THIS WORK TO BE INSTALLED BY A LICENSED PLUMBER IF STATE LAW REQUIRES. ALL WORK MUST BE INSPECTED DAWSON COUNTY CODES AND INSPECTION DEPARTMENT.

8) ALL ON-SITE PVC PIPE SHALL HAVE CLASS B BEDDING.

9) ALL CONDUIT, PIPE, AND CHASE PIPE SHALL BE WRAPPED WITH THE APPROPRIATE LOCATION WIRE AND TAPE.

10) NO PRESSURE REDUCING VALVES ARE TO BE INSTALLED ON FIRE LINES. ALL FIRE LINES ARE TO BE INSPECTED BY DAWSON COUNTY FIRE SERVICE PRIOR TO COVERING.

11) NOTIFY WATER AND SEWER INSPECTOR PRIOR TO START OF CONSTRUCTION.

12) THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS INCLUDING ALL RIM ELEVATIONS, INVERT ELEVATIONS, PIPE SIZES, AND PIPE MATERIAL FOR ALL PUBLIC MAINS TO THE ENGINEER AS SOON AS INSTALLATION IS COMPLETE.

13) OWNER SHALL BE RESPONSIBLE FOR ANY REPAIR OR REPLACEMENT OF ANY IMPROVEMENTS WITHIN THE SANITARY SEWER, WATER, DRAINAGE EASEMENT(S) DUE TO MAINTENANCE OF SEWER, WATER, STORM DRAIN OF DAWSON COUNTY.

14) CONTRACTOR SHALL INSTALL THE DOWNSTREAM SANITARY SEWER CONNECTION PRIOR TO THE INSTALLATION OF THE ON-SITE SERVICE LATERALS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE PLANS BY POT HOLING THE LINES. THE CONTRACTOR SHALL HAVE THE LINES SURVEYED, INCLUDING HORIZONTAL AND VERTICAL LOCATION, AND THE SURVEYED POINTS SENT TO THE PROJECT ENGINEER TO DETERMINE IF ANY UTILITY CONFLICTS WILL AFFECT THE CURRENT SANITARY SEWER DESIGN.

15) PVC WATER LINES LESS THAN 3" SHALL BE ASTM D 2241, SDR 21 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 2672. PVC WATER LINES 3" AND LARGER SHALL BE AWWA C900, RATED DR 18 (CLASS 150) WITH INTEGRALLY MOLDED BELL ENDS, ASTM D3139. DIP WATER LINES SHALL BE AWWA C151, PRESSURE CLASS 350.

16) PVC SANITARY SEWER LINES SHALL BE ASTM D 3034, RATED SDR 35 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 3034. TABLE 2, WITH FACTORY SUPPLIED ELASTOMERIC GASKETS AND LUBRICANT. DIP SANITARY SEWER LINES SHALL BE ASTM A746, CLASS 50 WITH AWWA C111, RUBBER GASKET JOINT DEVICES.

17) DEMOLISHED UTILITIES NOT DEPICTED ON THIS SHEET. REFER TO THE DEMOLITION PLAN.

18) SITE LIGHTING POLES ARE NOT SHOWN ON THESE PLANS. CONRACTOR IS RESPONSIBLE FOR COORDINATION WITH OWNER AND GEORGIA POWER TO DESIGN AND INSTALL SITE AND PARKING LOT LIGHTING PER COUNTY AND OWNER REQUIREMENTS.

DESIGNING ARCHITECT
WAKEFIELD BEASLEY & ASSOCIATES
A NELSON Company
ARCHITECT OF RECORD
NELSON
Nelco Architecture, Inc.
a licensed affiliate of Nelson Worldwide, LLC.
FORESITE group

GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

SHEET TITLE

UTILITIES PLAN

SHEET NUMBER

C-3

2/18/2019 9:31:50 PM

SHEET NAME: SANITARY SEWER PROFILES SHEET NUMBER: C-3.1 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\DWG\C-3.1 Sanitary Sewer Profiles.dwg

GENERAL NOTES:

1) PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

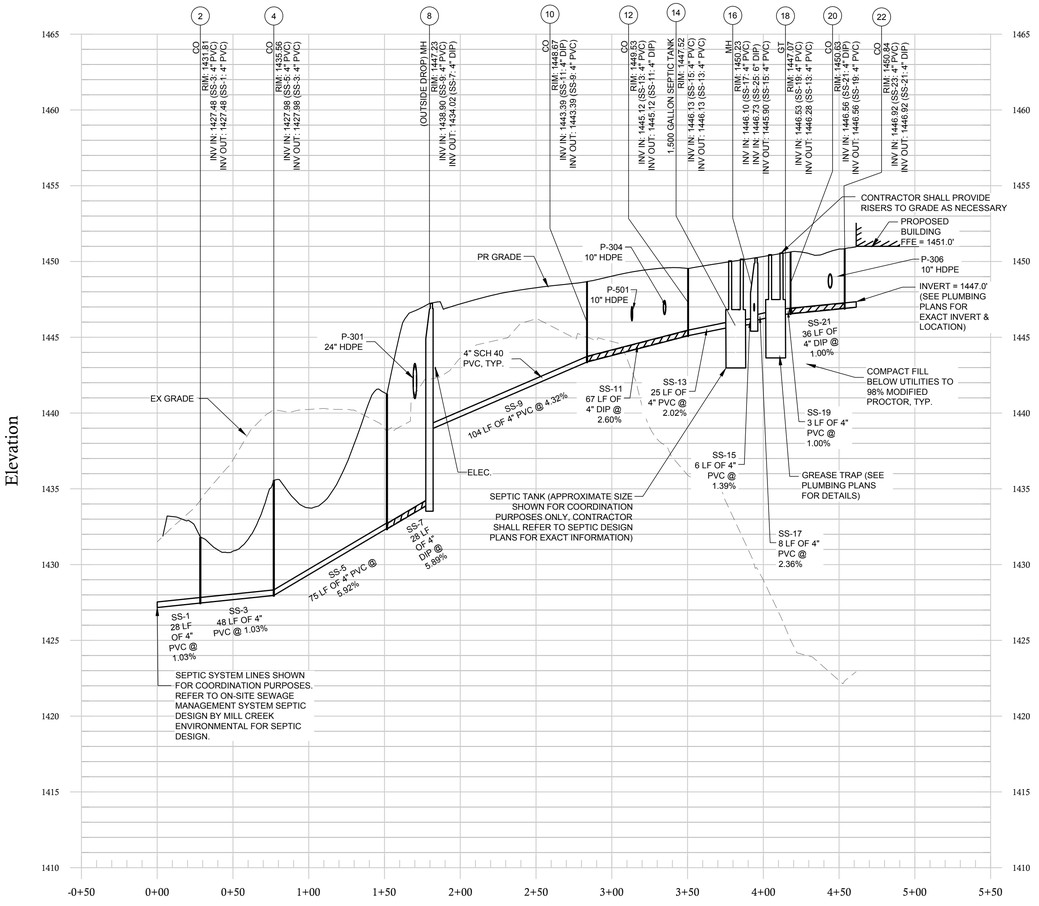
2) EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.

3) CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF UTILITIES IN RIGHT OF WAY TO AVOID CONFLICTS. CONTACT ENGINEER IMMEDIATELY IF FIELD ELEVATIONS DIFFER FROM THE DESIGN DRAWINGS.

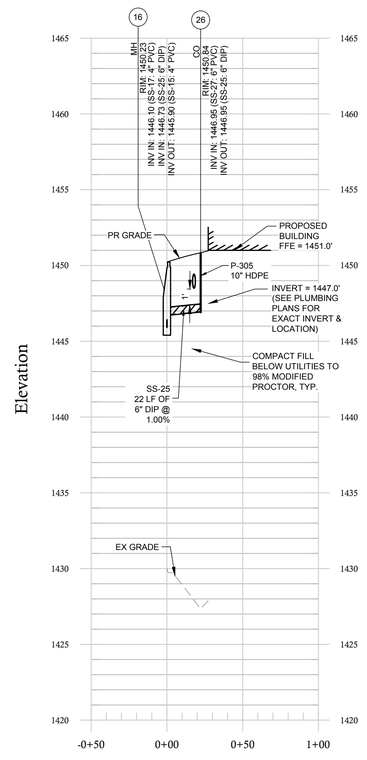
4) MAINTAIN MINIMUM 2' OF COVER OVER METAL AND PLASTIC PIPES DURING CONSTRUCTION ACTIVITIES.

5) CONTRACTOR SHALL PROVIDE WATER AND SEWER ASBUILT SURVEY A MINIMUM OF 8 WEEKS PRIOR TO CERTIFICATE OF OCCUPANCY.

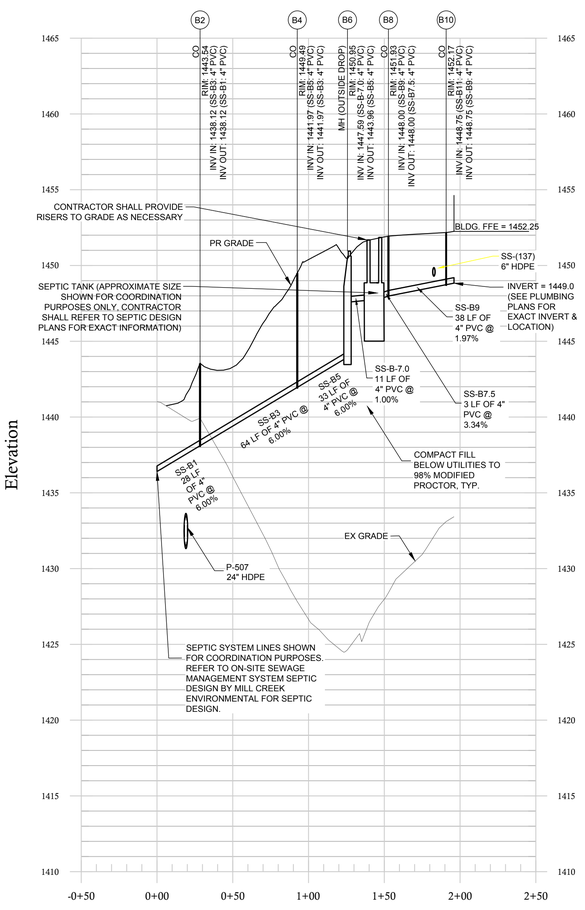
SANITARY SEWER 0-19
1" = 50' H, 1"=5' V



SANITARY SEWER12-23
1" = 50' H, 1"=5' V



SANITARY LINE B (PAVILION)
1" = 50' H, 1"=5' V



1" = 5'
5 2.5 0 5 10
VERTICAL: SCALE IN FEET

1" = 50'
50 25 0 50 100
HORIZONTAL: SCALE IN FEET

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GEORGIA REGISTERED
No. PE 035923
PROFESSIONAL ENGINEER
JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION
201 RECREATION RD
DAWSONVILLE, GA 30534

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2019-01-14 SCHEMATIC DESIGN PACKAGE
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2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

SHEET TITLE
SANITARY SEWER PROFILES

SHEET NUMBER
C-3.1

EROSION, SEDIMENTATION ,AND POLLUTION CONTROL PLANS (ESPCP) FOR:

DAWSON COUNTY SENIOR CENTER EXPANSION

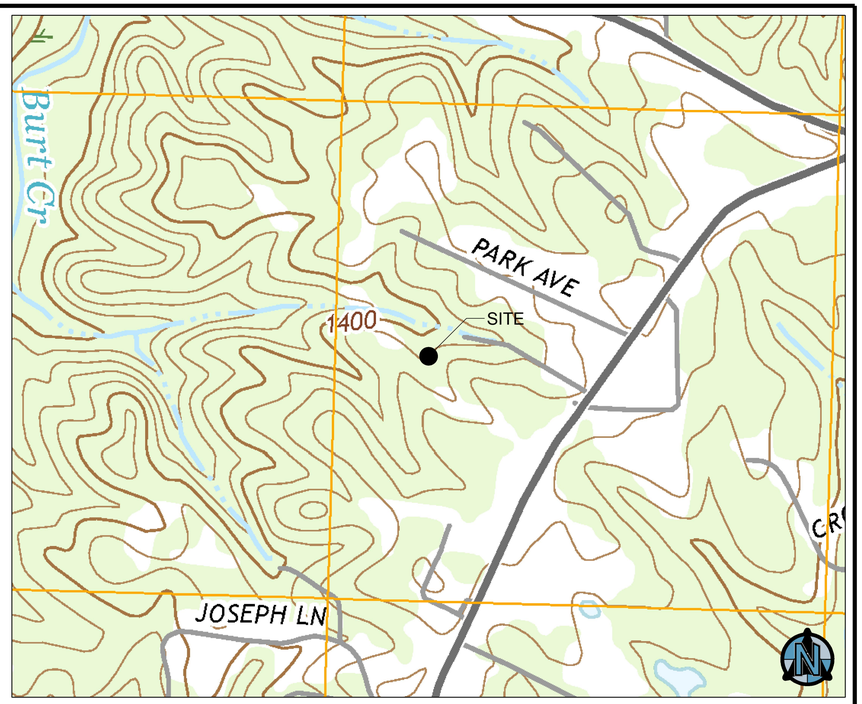
IN ACCORDANCE WITH GEORGIA NPDES PERMIT GAR #100001

201 RECREATION RD

DAWSONVILLE, GA 30534

ESPCP SHEET INDEX

SITE DISTURBED AREA = 7.5 AC



VICINITY MAP, SCALE: 1" = 500'

SITE DETAILS:

1) THE PROPOSED SITE IMPROVEMENTS INCLUDE A NEW SENIOR CENTER AND ASSOCIATED INFRASTRUCTURE INCLUDING A PARKING LOT, DETENTION FACILITY, AND UTILITIES.
2) TOTAL AREA OF THE SITE = 7.5 ACRES
3) CURVE NUMBER, EXISTING CONDITION = 66
4) CURVE NUMBER, DEVELOPED CONDITION = 72
5) THERE ARE ARE NO KNOWN STATE WATERS PRESENT ON SITE. THERE ARE NO KNOWN STATE WATERS WITHIN 200 FEET OF THE SITE. APPROXIMATE LOCATION OF OFF-SITE WATERS AND RECEIVING WATER ARE SHOWN ON THE LOCATION MAP (THIS SHEET)
6) THERE ARE NO KNOWN WETLANDS ON THE SITE. ALL WETLANDS DELINEATED ARE SHOWN IN THIS PLAN.
7) NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP NUMBER 13085C0103C DATED 2018-04-04

A COPY OF THIS APPROVED PLAN MUST BE RETAINED ON-SITE OR AT A READILY ACCESSIBLE LOCATION

THIS PLAN SHALL BE AMENDED WHEN A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT (INCLUDING SpB, Sd2, Sd3, Sd4, Rt, Ss, Rd, AND OTHER MEASURES IN CONCENTRATED FLOW AREAS). SUCH AMENDMENTS MUST BE CERTIFIED BY THE ENGINEER.

CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON START OF CONSTRUCTION IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION. THE CONTRACTOR SHALL VERIFY THAT ALL EXISTING INITIAL BMP'S ARE INSTALLED PROPERLY. ALL COMPENSATION FOR DESIGN ENGINEER'S REINSPECTION TO VERIFY THAT THE INITIAL BMP'S ARE PROPERLY INSTALLED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PREPARED BY:

FORESITE group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

24 HR CONTACT:
DAVID MCGHEE
(706) 344-3501

ISSUED:
MARCH 28, 2018
121.029

PHASE-I WATER SAMPLING LOCATION SCHEDULE

MONITORING SITE	TYPE OF SITE (SEE KEY)	TOTAL BASIN AREA ACRES	TOTAL BASIN AREA SQ. MI.	ON-SITE BASIN AREA ACRES	RECOMMENDED FOR MONITORING	RECEIVING WATER NAME	IMPAIRED? ***	NTU LIMIT FROM PERMIT **	COLD WATER?
MS-A	OF	10.09	0.016	10.09	YES	UNNNAMED TRIBUTARY OF BURT CREEK	NO	75	NO

** O.C.G.A. Sec. 12-7-6 STATES "A discharge of STORMWATER runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation of any land-disturbing permit issued by a local issuing authority or of any state general permit issued by the division pursuant to subsection (f) of Code Section 12-5-30 for each day on which such discharge results in the turbidity of receiving waters being increased by more than 25 nephelometric turbidity units for waters supporting warm water fisheries or by more than ten nephelometric turbidity units for waters classified as trout waters.

*** Impaired indicates the site discharges into, or is within one mile upstream of and within the same watershed, as a portion of an impaired stream segment for the criteria validated "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macrovertebrate Community), within Category 4a, 4b, or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff) on the latest published impaired streams list maintained by the Georgia Environmental Protection Division.

KEY:

OF: OUTFALL
RW-D: RECEIVING WATER- DOWNSTREAM OF SITE
RW-U: RECEIVING WATER- UPSTREAM OF SITE

* THESE SITES ARE NOT RECOMMENDED FOR THE FOLLOWING REASONS:

<MS-C: FLOWS IN THIS CHANNEL AREA NOT ADEQUATELY CONCENTRATED TO SAMPLE.>

ANTICIPATED ACTIVITY SCHEDULE
BEGIN CONSTRUCTION: 04/01/2019
END CONSTRUCTION: 04/01/2020

	ACTIVITY	2.0 MTH	4.0 MTH	6.0 MTH	8.0 MTH	10.0 MTH	12.0 MTH
1	INSTALL SEDIMENT CONTROLS	■					
2	DEMOLITION	■	■				
3	CLEARING, GRUBBING, & GRADING	■	■	■			
4	GRASS TEMP.	■	■	■	■		
5	BUILDING CONSTRUCTION		■	■	■	■	■
6	MAINTAIN EROSION CONTROL	■	■	■	■	■	■
7	PAVING			■	■		
8	FINAL LANDSCAPING						■
9	DISPOSITION OF TEMP. SEDIMENT CONTROLS						■

DESIGN PROFESSIONAL CERTIFICATION

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

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.

Jack McGowan Johnson — 3/08/19
SIGNATURE OF ENGINEER — DATE
000006080827 — 2019-03-24
CERTIFICATION # — EXPIRATION

OWNER 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 ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

SIGNATURE OF OWNER — DATE

SECONDARY PERMITTEES

A COMPLETE LIST OF SECONDARY PERMITTEES AND CONTACT INFORMATION SHOULD BE MAINTAINED IN THE SPACE BELOW, AND A COPY OF THE PLAN (AND ANY SUBSEQUENT REVISIONS TO THE PLAN) SHALL BE PROVIDED TO EACH SECONDARY PERMITTEE. EACH SECONDARY PERMITTEE SHALL SIGN A WRITTEN ACKNOWLEDGEMENT OF RECEIPT IN THE SPACE BELOW. THE RECORD OF ACKNOWLEDGEMENTS MUST REMAIN IN THE ON-SITE RECORDS.

1. NAME — COMPANY — ADDRESS
CITY/STATE/ZIP — LEVEL IA CERTIFICATION NO. — SIGNATURE

2. NAME — COMPANY — ADDRESS
CITY/STATE/ZIP — LEVEL IA CERTIFICATION NO. — SIGNATURE

3. NAME — COMPANY — ADDRESS
CITY/STATE/ZIP — LEVEL IA CERTIFICATION NO. — SIGNATURE

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

DESIGNING ARCHITECT

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GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON 3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION
201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

EROSION, SEDIMENTATION, & POLLUTION CONTROL COVER

SHEET NUMBER

C-4

3/07/2019 6:24:19 PM

SHEET NAME: EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES SHEET NUMBER: C-4.1 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\DWG\C-4 ESPC Cover & Notes.dwg

GENERAL EROSION CONTROL NOTES:

1) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.

2) EROSION AND SEDIMENT 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.

3) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

4) A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

5) THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND BEST MANAGEMENT PRACTICES, WHETHER TEMPORARY OR PERMANENT.

6) EROSION CONTROL DEVICES THAT ARE INSTALLED AS DIRECTED BY AN INSPECTOR BUT NOT SHOWN ON THE APPROVED PLAN ARE THE RESPONSIBILITY OF THE CONTRACTOR.

7) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING TIMING, DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. 24 HR CONTACT: **DAVID MCGHEE (706) 344-3501.**

8) ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING AS SLOPES ARE CONSTRUCTED.

9) THE CONTRACTOR SHALL STOCKPILE AND REUSE TOPSOIL TO DRESS FINAL GRADES. CONFIRM THE STOCKPILE LOCATION WITH THE OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION. SEE GRADING AND DRAINAGE PLANS FOR NOTES REGARDING EXCESS TOPSOIL AND OTHER UNCLASSIFIED FILL/EXCAVATION.

10) THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANING OUT OF ANY ACCUMULATED SILT IN THE STORM DRAINAGE PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.

11) CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES UNTIL THE ENTIRE PROJECT HAS UNDERGONE FINAL STABILIZATION AND ALL CONSTRUCTION HAS BEEN COMPLETED.

12) RED LINE COMMENTS ON WORKING SETS OF PLANS SHOULD BE MAINTAINED ON SITE FOR ANY CHANGES MADE TO EROSION CONTROL PLAN. COMMENTS SHOULD INCLUDE DATE AND JUSTIFICATION FOR CHANGES.

13) OFF SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. DUST CONTROL MEASURES MAY CONSIST OF APPLICATION OF MULCHES, VEGETATIVE COVER, SPRAY-ON ADHESIVES, CALCIUM CHLORIDE; THE USE OF IRRIGATION; AND/OR THE CONSTRUCTION OF BARRIERS TO PROTECT FROM WIND OR SCREEN AIRBORNE PARTICULATES.

14) IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT PAD DOES NOT SUFFICIENTLY REMOVE MUD FROM VEHICLE TIRES, THE TIRES SHOULD BE WASHED BEFORE LEAVING THE PROJECT SITE. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON THE CONSTRUCTION PAD OR OTHER AREA STABILIZED WITH CRUSHED STONE. ALL RUNOFF FROM WASHING AREAS BUST BE DIRECTED TO A SEDIMENT TRAP OR SEDIMENT BASIN INCLUDED IN THESE PLANS.

STREAMS AND WETLANDS

1) NO CONSTRUCTION ACTIVITY SHALL BE CONDUCTED WITHIN THE BANKS OF STREAMS OR WITHIN A WETLAND AREA EXCEPT UPON RECEIPT OF AUTHORIZATION FOR SUCH ACTIVITY FROM THE U.S. ARMY CORPS OF ENGINEERS.

2) EXCEPT AS PROVIDED IN NO. 4 BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED, OR ALONG ANY EPHEMERAL STREAM, OR WHERE BULKHEADS AND SEAWALLS MUST BE CONSTRUCTED TO PREVENT THE EROSION OF THE SHORELINE ON LAKE OCONEE AND LAKE SINCLAIR .. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED:.

A) PUBLIC DRINKING WATER SYSTEM RESERVOIRS;
B) STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER;
C) STREAM CROSSINGS FOR ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT: (A) THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, (B) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (C) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
D) BUFFER CROSSING FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER;
E) STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT: (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED), AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION;
F) UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN OR FINANCED IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR THE STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY OR MUNICIPALITY, PROVIDED THAT: (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
G) RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT AND MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT: (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT; AND
H) MAINTENANCE (EXCLUDING DREDGING), REPAIR AND/OR UPGRADE OF SOIL AND WATER CONSERVATION DISTRICT WATERSHED DAMS WHEN UNDER THE TECHNICAL SUPERVISION OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE.

3) NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS "TROUT STREAMS" EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR OF EPD FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS "TROUT STREAMS" WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO ACTIVITIES LISTED IN 2.a THROUGH 2.h PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS IMPLEMENTED.

4) EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO NO. 2 . AND 3, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. DURING COVERAGE UNDER THE NPDES PERMIT, A BUFFER CANNOT BE THINNED OR TRIMMED OF VEGETATION AND A PROTECTIVE VEGETATIVE COVER MUST REMAIN TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED.

POST-CONSTRUCTION STORMWATER BMP'S (PART IV.D.3.b)

1) STORMWATER RUNOFF IS CAPTURED WITHIN THE PROPOSED CLOSED CONDUIT SYSTEM THAT DRAINS SOUTH TO THE REAR OF THE PROPERTY WHERE SITE WILL BE SERVED BY A PROPOSED ABOVE GROUND DETENTION POND WITH SEDIMENT FOREBAY . OFFISTE STORMWATER RUNOFF FROM THE NORHTWEST IS ROUTED AROUND THE PROJECT SITE AND BYPASSES THE ABOVE GROUND DETENTION POND WITH SEDIMENT FOREBAY SERVING THE SITE.

2) THE POND DISCHARGES TO THE SOUTH THROUGH A ENERGY DISSIPATING HEADWALL WITH RIP-RAP OUTLET PROTECTION. NOTE RIP-RAP TO BE MAINTAINED AFTER CONSTRUCTION.

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BMP MAINTENANCE (PART IV.D.5)

1) THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION UPON DISCOVERY OF ANY DEFICIENCIES IN EROSION CONTROL BEST MANAGEMENT PRACTICES, WHETHER OR NOT IT IS INCLUDED IN AN INSPECTION REPORT.

2) ALL STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES MUST BE CLEANED OUT OR RECONSTRUCTED WHEN SEDIMENT VOLUMES EXCEED 1/3 OF THE STORAGE CAPACITY OF THE MEASURE. .

3) ALL SILT FENCE STORAGE SHALL BE CLEANED OUT OR RECONSTRUCTED WHEN SEDIMENT VOLUMES EXCEED 1/2 OF THE HEIGHT OF THE SILT FENCE.

4) SEDIMENT CLEANED OUT FROM STORAGE DEVICES AND SILT FENCE SHOULD BE SPREAD IN UPLAND AREAS, MIXED WITH TOPSOIL, AND MULCHED OR SEEDED IMMEDIATELY. DO NOT SPOIL IN AREAS WHERE STRUCTURAL FILLS ARE REQUIRED (SUCH AS PAVEMENT, BUILDING FOOTPRINTS, ETC.)

5) WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

6) WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

7) REAPPLICATION OF VEGETATIVE BMPS MAY BE REQUIRED TO ACHIEVE FULL COVERAGE. REFER TO VEGETATIVE BMP NOTES AND DETAILS FOR INSTALLATION AND MAINTENANCE OF VEGETATIVE BMP'S.

INSPECTIONS (PART IV.D.4)

1) IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE SURE THAT INSPECTIONS ARE BEING PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PERMIT NOTED BELOW.

2) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

3) MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. 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.

4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM 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 ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D .4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

5) 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 OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

6) 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.

SAMPLING REQUIREMENTS (PART IV.D.6):

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

SAMPLE TYPE:

1) ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-8-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

A) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
B) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
C) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
D) MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
E) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E OF THE NPDES PERMIT.

SAMPLING POINTS:

1) 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). 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 FOLLOWING MINIMUM GUIDELINES.

A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
F) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
G) PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP ·OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).
H) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS 111.D.3. OR 111.D.4 . ., WHICHEVER IS APPLICABLE.

SAMPLING FREQUENCY:

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

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 QUALIFYING EVENTS:

A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
B) IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
D) WHERE SAMPLING PURSUANT TO (a), (b) OR (c) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b) OR (c) ABOVE; AND
E) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b) . THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.
** 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 SAMPLING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (PART V.E)

1) THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART 11.C. OF THE PERMIT 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.2 OF THE PERMIT. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE PERMIT.

2) ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

A) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
B) THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
C) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
D) THE DATE(S) ANALYSES WERE PERFORMED;
E) THE TIME(S) ANALYSES WERE INITIATED;
F) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
G) REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
H) THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
I) RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
J) CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3) ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

RETENTION OF RECORDS (PART IV.F):

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.

2) COPIES OF ALL NOI'S, NOT'S, 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 THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

RISK REDUCTION/POLLUTION CONTROL (PART IV.D.3.c)

GENERAL

1) AN EFFORT SHALL BE MADE TO MAINTAIN THE MINIMUM AMOUNT OF MATERIAL NEEDED TO COMPLETE THE JOB ONSITE.

2) ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS.

3) PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL

4) SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER

5) WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER

6) MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED

7) THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

BULK STORAGE

1) BULK STORAGE INCLUDES THE STORAGE OF RAW OF FINISHED PRODUCTS AND BYPRODUCTS STORED IN LARGE PILES OR STACKS ON A TEMPORARY OR PERMANENT BASIS, INCLUDING GRAVEL, COMPOST, CHEMICALS, LOGS, TREATED WOOD, SAWDUST, WOOD CHIPS, COAL, BUILDING MATERIALS, CONCRETE, AND METAL PRODUCTS. FOR BULK STORAGE OF TOPSOIL, REFER TO TOPSOIL STOCKPILING BMP'S.

2) BULK MATERIALS SHOULD NOT BE ALLOWED TO WASH OFF THE SITE OR DISCHARGE INTO SURFACE WATERS. PROTECT STOCKPILES WITH A WATERPROOF COVER, WHERE FEASIBLE.THE COVER SHOULD BE ADEQUATELY SECURED AND REMAIN IN PLACE AT ALL TIMES WHEN STOCKPILE MATERIALS ARE NOT BEING USED. WHEN INFEASIBLE, RUNOFF FROM THE STOCKPILE SHOULD BE DIVERTED TO STRUCTURAL EROSION & SEDIMENT CONTROL BMP'S.

3) LOCATE STOCKPILES A MINIMUM OF 50 FEET FROM CONCENTRATED FLOW AREAS.

4) INSPECT DAILY FOR EROSION AND/OR LEACHING OF STOCKPILES OF RAW MATERIALS.

LIQUID STORAGE

1) LIQUID STORAGE CONTAINERS MUST HAVE TIGHT FITTING LIDS AND BE PROPERLY LABELED WITH THE CONTENTS AND ANY POSSIBLE HAZARDS.

2) ALL LIQUID STORAGE CONTAINERS SHOULD BE PLACED IN A DESIGNATED AREA WITH A SECONDARY CONTAINMENT SYSTEM, SUCH AS CURBING, BERMS, DIKES, LINERS, OR USE OF SPILL PALLETS SUCH THAT CONTENTS WILL NOT DISCHARGE, FLOW, OR BE WASHED INTO THE STORMWATER DRAINAGE SYSTEM IF THE CONTAINER LEAKS OR RUPTURES. SECONDARY CONTAINMENT SHOULD BE DESIGNED TO STORE 110% OF THE VOLUME OF THE LARGEST CONTAINER OR 10% OF THE VOLUME OF ALL CONTAINERS, WHICHEVER IS GREATER.

3) RUNOFF BEYOND SECONDARY STORAGE AREAS SHOULD BE DIVERTED TO EROSION CONTROL BMP'S. IF BMP'S WITH A SKIMMER DEVICE ARE CONSTRUCTED ON THE PROPERTY, LIQUID STORAGE CONTAINMENT RUNOFF SHOULD BE DIVERTED TO SUCH MEASURES.

4) PROVIDE BARRIERS AROUND LIQUID STORAGE AREAS TO PREVENT DAMAGE FROM VEHICLES OR EQUIPMENT.

6) ADDITIONAL REQUIREMENTS ARE INCLUDED IN THE PLAN FOR OIL/PETROLEUM STORAGE.INSPECT DAILY FOR LEAKS AND SPILLS.

7) USE DRY ABSORBENTS, SUCH AS ABSORBENT GRANULES, SOCKS, AND PADS TO CLEAN UP ANY SPILLS OR LEAKING FLUIDS.

WASTE DISPOSAL

1) ALL WASTE MATERIALS WILL BE COLLECTED AND STORED TO BE PROPERLY DISPOSED OF AT A LICENSED SOLID WASTE MANAGEMENT COMPANY.

2) LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES, AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES OR THE SOURCE OF DISPOSAL TO MINIMIZE TRAFFIC ON DISTURBED SOIL. DISPOSAL SHALL BE PERIODICALLY AS NEEDED.

3) COVER TEMPORARY WASTE PILES WITH A WATERPROOF COVER WHEN FEASIBLE TO DO SO.

4) NO CONSTRUCTION MATERIALS WILL BE BURIED ONSITE.

5) ALL PERSONNEL WILL BE INSTRUCTED CONCERNING WASTE DISPOSAL. THE CONTRACTOR WILL BE RESPONSIBLE FOR THIS INSTRUCTION, AND WILL BE RESPONSIBLE FOR SEEING THAT THESE INSTRUCTIONS ARE FOLLOWED.

6) INSPECT SOLID WASTE DISPOSAL AREAS DAILY TO ENSURE THERE ARE NO LEAKS OR SPILLS, AND THERE IS NO LOOSE/UNSECURED TRASH OR SOLID WASTE MATERIAL.

HAZARDOUS MATERIALS

1) THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:

A) PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE.
B) ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED.
C) IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

2) ALL HAZARDOUS WASTE MATERIALS (AS DEFINED IN 40 CFR PART 261) WILL BE SEPARATED FROM CONSTRUCTION WASTE AND WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

3) MATERIAL DATA SAFETY SHEETS 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. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF THE MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

4) HAZARDOUS WASTE STORAGE AREAS SHOULD, AT A MINIMUM, BE SHELTERED FROM PRECIPITATION AND RAISED OFF THE GROUND WITH SECONDARY CONTAINMENT (SUCH AS SPILL PALLETS) TO PREVENT LEACHING AND DELIVERY FROM RUNOFF. ALL STORAGE MUST COMPLY WITH STATE AND FEDERAL REGULATIONS.

SANITARY WASTE

1) ALL SANITARY WASTE WILL BE MANAGED APPROPRIATELY BY PERMANENT EXISTING ON-SITE FACILITIES OR PORTABLE UNITS.

2) ALL SANITARY WASTE TO BE DISPOSED OF PROPERLY ACCORDING TO STATE AND FEDERAL CODE.

3) A MINIMUM OF ONE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON SITE OR AS OTHERWISE REQUIRED BY LOCAL REGULATIONS.

ON-SITE VEHICLE MAINTENANCE

1) FOR ALL OUTDOOR MAINTENANCE ACTIVITIES, A TARP OR GROUND CLOTH AND DRIP PANS SHOULD BE PLACED BENEATH THE VEHICLE TO CAPTURE SPILLS AND DRIPS.

2) AVOID CHANGING MOTOR OIL OR OTHER VEHICLE FLUIDS, OR PERFORMING HEAVY EQUIPMENT MAINTENANCE NEAR A STORMWATER DRAIN, DRAINAGE DITCH, SURFACE WATER, OR ANYWHERE WHERE THE CONTAMINANTS COULD COME INTO CONTACT WITH RAIN OR STORMWATER RUNOFF.

3) ALWAYS USE FUNNELS WHEN POURING LIQUIDS, AND USE DRIP PANS UNDER A VEHICLE WHEN UNCLIPPING HOSES, UNSCREWING FILTERS, AND REMOVING OTHER PARTS THAT ARE SUBJECT TO LEAKS. CLEAN UP VEHICLE FLUIDS WITH RAGS OR ABSORBENT MATERIALS IMMEDIATELY.

CONCRETE WASHOUT

1) WASHOUT OF THE DRUM OF A CONCRETE TRUCK ON THE CONSTRUCTION SITE IS PROHIBITED. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN DESIGNATED CONCRETE WASHDOWN AREAS SHOWN IN THIS PLAN, AND CONCRETE WASHDOWN AREAS MUST HAVE THE Cw BMP INSTALLED IN ACCORDANCE WITH PLAN REQUIREMENTS AND DETAILS. IF NO CONCRETE WASHOUT AREA IS SHOWN, THE PLAN MUST BE AMENDED FOR CONCRETE WASHOUT TO BE ALLOWED AT THE LOCATION THAT IS DESIGNATED ON THE PLAN.WASHDOWN MUST ADDITIONALLY MEET THE FOLLOWING PRACTICES:

A) PREVENT WASHDOWN WATER FROM FLOWING OUT OF THE WASHDOWN AREA;
B) USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN TOOLS, MIXER CHUTES, HOPPERS, AND THE REAR OF ANY VEHICLES;
C) REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS; AND
D) REMOVE ANY CONCRETE RESIDUE FROM THE AREA ONCE IT HAS HARDENED.
E) NEVER DISCHARGE OR DUMP RAW, EXCESS OR WASTE MATERIALS, SLURRY, OR RINSE WATER INTO A STORMWATER DRAIN, DRAINAGE DITCH, OR SURFACE WATER. APPROPRIATELY DISPOSE OF ANY SOLID CONCRETE OR ASPHALT WASTE, INCLUDING DUST PRODUCED FROM SAWCUTTING/MILLING OPERATIONS.

PETROLEUM / OIL PRODUCTS

1) INSPECT VEHICLES AND EQUIPMENT DAILY FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

2) THERE SHALL BE NO ON-SITE STORAGE OF PETROLEUM FOR FUELING. MOBILE PETROLEUM TRUCKS SHALL BE USED TO FUEL CONSTRUCTION EQUIPMENT ON-SITE. ON-SITE FUELING SHOULD BE PERFORMED AT A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORMWATER, STORMWATER DRAINS, DRAINAGE DITCHES, AND SURFACE WATERS.PLACE TEMPORARY CAPS OVER NEARBY CATCH BASINS AND OPEN MANHOLES SO THAT IF A SPILL OCCURS IT IS PREVENTED FROM ENTERING THE STORMWATER DRAINAGE SYSTEM. WHERE POSSIBLE, DESIGNATE AREAS FOR FUELING WHERE RUNOFF DISCHARGES TO A SEDIMENT STORAGE AREA WITH A SKIMMER DEVICE.

3) ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

4) A SPILL PREVENTION, CONTROL, AND COUNTERMEASURES (SPCC) PLAN TO MEET THE EPA OIL SPILL PROGRAM REGULATIONS MAY BE REQUIRED IF ANY SINGLE PETROLEUM STORAGE UNIT EXCEEDS 660 GALLONS, OR A TOTAL OF MORE THAN 1,320 GALLONS OF FUEL ARE STORED ON SITE. THIS PLAN WAS PREPARED WITH THE UNDERSTANDING THRESHOLDS FOR THE PREPARATION OF AN SPCC PLAN WOULD NOT BE EXCEEDED, AND THAT ON-SITE FUEL STORAGE WILL NOT BE PROVIDED.

5) NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. 12-8-60, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED; NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

FERTILIZERS

1) FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A CLEAN, DRY PLACE. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

2) AVOID FERTILIZER APPLICATION WHEN IT IS RAINING OR WHEN HEAVY RAIN IS FORECAST

3) FERTILIZER GRANULES SHOULD BE WORKED INTO THE SOIL RATHER THAN BROADCAST AND LEFT ON THE SURFACE.

4) SWEEP UP DRY FERTILIZER GRANULES THAT FALL ON PAVEMENT OR OTHER HARD SURFACES. DO NOT HOSE OR BLOW OFF.

FUNGICIDES/PESTICIDES

1) DO NOT MIX OR PREPARE PESTICIDES OR FUNGICIDES NEAR A STORMWATER DRAIN, DRAINAGE DITCH, OR SURFACE WATER. PREPARE THE MINIMUM AMOUNT OF PESTICIDE NEEDED FOR THE JOB AND USE THE LOWEST RATE THAT WILL EFFECTIVELY CONTROL PESTS/UNDESIRABLE VEGETATION.

2) READ AND FOLLOW THE LABEL DIRECTIONS AND APPLY ALL FUNGICIDES AND PESTICIDES AS DIRECTED. FOLLOW FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS GOVERNING THE USE, STORAGE, AND DISPOSAL OF PESTICIDES AND TRAINING OF APPLICATORS AND PEST CONTROL ADVISORS.

3) DO NOT APPLY FUNGICIDES OR PESTICIDES WHEN IT IS RAINING OR RAIN IS FORECAST.

4) PESTICIDES SHOULD NEVER BE APPLIED DIRECTLY TO SURFACE WATERS OR WITHIN 100' OF A STREAM BANK OR SHORELINE.

5) SWEEP UP DRY PESTICIDE THAT FALLS ONTO PAVEMENT OR OTHER IMPERVIOUS SURFACES. DO NOT HOSE OFF. FOLLOW MANUFACTURER INSTRUCTIONS FOR SPILLS AND LEAKS.

PAINT PRODUCTS

1) ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

2) FOR WATER-BASED PAINTS, CLEAN PAINTING EQUIPMENT IN A SINK OR BASIN CONNECTED TO THE SANITARY SEWER OR IN THE CONCRETE WASHOUT AREA. CLEAN UP NON-WATER BASED PAINTS, FINISHES, AND OTHER MATERIALS IN A MANNER THAT ENABLES COLLECTION OF WASTE PAINT AND SOLVENTS FOR RECYCLING AND PROPER DISPOSAL. NEVER POUR WASTE PAINT DOWN A STORM DRAIN OR INTO A CONCENTRATED FLOW AREA.

SPILL CLEANUP AND CONTROL

FOR SPILLS THAT IMPACT SURFACE WATER, OR FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT (800) 426-2675.

FOR SPILLS GREATER THAN 25 GALLONS WITH NO SURFACE WATER IMPACT, GEORGIA EPD MUST BE CONTACTED WITHIN 24 HOURS.

FOR SPILLS LESS THAN 25 GALLONS WITH NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

1) LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES MADE AVAILABLE TO SITE PERSONNEL.

2) MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN OR NEAR MATERIAL STORAGE AREAS. THIS INCLUDES BUT IS NOT LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, SORBENTS, AND CLEARLY LABELED WASTE CONTAINERS.

3) ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.

4) THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

5) FOLLOWING A SPILL, MEASURES WILL BE TAKEN/PROCEDURES ADJUSTED TO PREVENT THIS TYPE OF SPILL FROM RE-OCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL BE INCLUDED IN THE ASSESSMENT.

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

A NELSON Company

ARCHITECT OF RECORD

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FORESITE group

GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES

SHEET NUMBER

C-4.1

3/07/2019 6:24:19 PM

SHEET NAME: EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES SHEET NUMBER: C-4.2 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\DWG\C-4 ESPC Cover & Notes.dwg

CONSTRUCTION SEQUENCE (PART IV.D.1)

THE FOLLOWING SEQUENCE OF ACTIVITIES ARE TO BE IMPLEMENTED IN THE ORDER SHOWN, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, REVISIONS, RECOMMENDATIONS FROM THE PRE-CONSTRUCTION CONFERENCE, OR OTHER REASON JUSTIFIES A DEVIATION FROM THIS SCHEDULE. IF A DEVIATION IS UNDERTAKEN OR ANTICIPATED, THE LOCAL JURISDICTION SHALL BE NOTIFIED AND THE CHANGE OF SEQUENCE RECORDED IN THE DAILY LOG.

PHASE-I: CLEARING, GRADING, DEMOLITION, AND INSTALLATION OF INITIAL BMP'S

1) OBTAIN AND POST A COPY OF THE LAND DISTURBANCE PERMIT ON THE SITE. A COPY OF THE FILED NOTICE OF INTENT (NOI) AND DELIVERY RETURN RECEIPT SHOULD BE STORED WITH THE APPROVED CONSTRUCTION PLANS ON-SITE, ALONG WITH SETTING UP STORAGE FOR THE DAILY SAMPLING LOG AND FILING FOR REPORTS REQUIRED BY THE NPDES PERMIT. LAND DISTURBANCE CANNOT COMMENCE LESS THAN 14 DAYS FROM THE DATE ON THE DELIVERY RECEIPT.

2) SET UP A PRE-CONSTRUCTION CONFERENCE ON-SITE WITH THE OWNER, CONTRACTOR, DESIGN TEAM MEMBERS AS NEEDED, AND LOCAL ISSUING AUTHORITY TO REVIEW CONSTRUCTION REQUIREMENTS.

3) COORDINATE THE DISCONNECTION AND REMOVAL OF ANY EXISTING UTILITIES ON-SITE TO BE REMOVED OR ABANDONED. FIELD CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BY POTHOLING.

4) STAKE LIMITS OF DISTURBED AREA AND TREE PROTECTION AREAS.

5) INSTALL TREE SAVE FENCING TO DELINEATE BUFFER AND TREE SAVE AREAS AS SHOWN ON THE PLAN.

6) CONSTRUCT THE CONSTRUCTION ENTRANCE(S) AT THE PROPOSED LOCATION(S) SHOWN ON THE PLANS. (TEMPORARY STREET ACCESS PERMITS MAY BE REQUIRED.)

7) INSTALL ALL PERIMETER SILT BARRIERS AS SHOWN ON THE PHASE-I PLAN SHEETS.

8) CLEAR AND GRUB ROUTES TO THE MINIMUM EXTENT NEEDED TO CONSTRUCT STRUCTURAL BEST MANAGEMENT PRACTICES IN CONCENTRATED FLOW AREAS SHOWN ON THE INITIAL PHASE PLAN. THIS INCLUDES EXCAVATED SEDIMENT TRAPS, SEDIMENT BASINS, ROCK DAMS,SILT GATES, AND DIVERSIONS.

9) INSTALL STRUCTURAL BMP'S IN CONCENTRATED FLOW AREAS WITH MINIMAL DISTURBANCE TO ADJACENT AREAS.

10) INSTALL SKIMMER DEVICES ON STRUCTURAL BMP'S AS SHOWN ON THE INITIAL PHASE PLANS.

11) COMMENCE CLEARING, GRUBBING, AND DEMOLITION OPERATIONS. CONSTRUCT ALL REMAINING BMP'S SHOWN ON THE PHASE-I PLANS CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS.

12) COMMENCE DEMOLITION ACTIVITY CONCURRENT WITH CLEARING AND GRUBBING ACTIVITY. CONSTRUCTION DEBRIS SHOULD BE SORTED FROM VEGETATIVE DEBRIS FOR PROPER DISPOSAL.

13) APPLY TEMPORARY VEGETATION (Ds1/Ds2) IN ACCORDANCE WITH PLANS AND NOTES FOR CLEARED AREAS.

PHASE-II: GRADING AND UTILITY CONSTRUCTION

1) CONSTRUCT ALL STRUCTURAL BMP'S SHOWN ON THE PHASE-II PLAN WHERE COMPLETION OF GRADING AND UTILITY CONSTRUCTION IS NOT NECESSARY FOR INSTALLATION.

2) COMMENCE ROUGH GRADING ON-SITE. INSTALL STRUCTURAL AND VEGETATIVE BMP'S AS SHOWN ON THE PHASE-II PLAN AS EACH AREA IS COMPLETED. FOR LARGE FILLS AND MAJOR EARTH MOVING ACTIVITIES THAT CHANGE CONVEYANCE OF STORMWATER RUNOFF, THE INSTALLATION OF DIVERSIONS, DOWN DRAINS, AND STRUCTURES ON THE PLANS SHOULD BE CONSTRUCTED TO MAINTAIN THE PROTECTION OF SLOPES AND ROUTING OF WATER TO THE PHASE-II STRUCTURAL STORAGE LOCATIONS. THIS MAY INCLUDE PHASED INSTALLATION OF DOWN DRAINS WITH DIVERSIONS ALONG THE FACE OF LARGE FILL AREAS.

3) INSTALL PERMANENT STORMWATER MANAGEMENT AREAS AS SHOWN. WHERE PERMANENT STORMWATER MANAGEMENT AREAS HAVE WATER QUALITY COMPONENTS, INSTALL SKIMMER OR RETROFITTING DEVICES AS SHOWN ON THE PLAN AND DO NOT CONSTRUCT WATER QUALITY DEVICES UNTIL FINAL STABILIZATION HAS TAKEN PLACE. WHERE INFILTRATION IS A PART OF A STORMWATER MANAGEMENT COMPONENT, MAINTAIN THE BOTTOM OF THE INFILTRATION AREA A MINIMUM OF SIX INCHES ABOVE FINAL GRADE, TO BE EXCAVATED ONCE FINAL STABILIZATION OF THE SITE IS COMPLETE.

4) CONSTRUCT TEMPORARY AND PERMANENT DRAINAGE STRUCTURES AS NECESSARY FOR CONVEYANCE DURING GRADING ACTIVITIES. INSTALL STORM OUTLET PROTECTION CONCURRENT WITH CONSTRUCTION OF ANY DRAINAGE OUTFALL.

5) AS FINAL GRADE OF SLOPES ARE ACHIEVED, TRACK OR BENCH AS SHOWN ON THE PLANS. INSTALL SLOPE STABILIZATION REQUIRED IN THE PLANS CONCURRENT WITH THE ESTABLISHMENT OF FINAL GRADE OF SLOPES AND CONVEYANCE CHANNELS.

6) INSTALL INLET SEDIMENT TRAPS CONCURRENT WITH THE CONSTRUCTION OF STORM DRAIN STRUCTURES. PROTECT INLETS WHERE EXCAVATION HAS NOT BEEN BACKFILLED AND INLET PROTECTION ESTABLISHED BY DIVERTING TO COMPLETED INLET SEDIMENT TRAPS.

7) SPREAD FERTILIZER AND GRASS SEED/SODDING ALONG WITH RECOMMENDED MULCHING (IF SEEDED) AS SOON AS FINAL GRADE IS ACHIEVED IN ACCORDANCE WITH THE PHASE-III PLAN SHEETS AND ANY APPLICABLE LANDSCAPE PLAN.

8) COMMENCE FINAL GRADING OF ALL ROADS, PARKING LOTS, AND BUILDING PADS.

9) EXCAVATE AND BACKFILL UTILITY CONSTRUCTION IN SECTIONS TO MINIMIZE OPEN EXCAVATION. WHERE UTILITIES ARE AT FINAL GRADE, PLACE PERMANENT SEEDING IN ACCORDANCE WITH PHASE-III PLANS.

PHASE-III - FINAL CONSTRUCTION, LANDSCAPING, AND PERMANENT STABILIZATION

1) AS SOON AS CONCRETE BUILDING PADS ARE POURED, ALL AREAS AROUND THE PADS AND STREET/PARKING AREAS ARE TO BE TEMPORARILY VEGETATED.

2) CONSTRUCT BUILDING PAD AND FOUNDATIONS.

3) CONSTRUCT ALL LEVEL SPREADERS AND MAINTAIN STORM OUTLET PROTECTION AT PIPE OUTLETS AS SHOWN ON THE PLANS.

4) PLACE GRADED AGGREGATE BASE FOR ROADS AND DRIVES. MODIFY ALL CURB INLET SEDIMENT TRAPS AS NEEDED, BOTH FOR DIVERSION OF WATER INTO THE RAISED THROATS AND FOR THE INLET. (Sd2-P MAY BE INSTALLED ON THE GUTTER IN MOST CASES).

5) INSTALL CURBING AND SIDEWALKS. DURING THIS PHASE, CURBING MAY ACT AS A RUNOFF DIVERSION. THE CONTRACTOR MUST MAINTAIN CONVEYANCE AS SHOWN IN THE PLANS, WHICH MAY REQUIRE CONSTRUCTING A SEGMENT OF CURB AT A LATER DATE TO MAINTAIN PROPER CONVEYANCE OF STORMWATER.

6) AFTER A CURING TIME OF NO LESS THAN SEVEN DAYS, BACKFILL CURBS AND SMOOTH SHOULDER GRADES. PLACE FINAL LANDSCAPING/STABILIZATION ON SHOULDERS AS SOON AS SEASON AND CONSTRUCTION ACTIVITY ALLOWS. IF FINAL STABILIZATION WILL NOT BE IMMEDIATE, PLACE TEMPORARY SEEDING OR MULCH ON THE SHOULDERS.

7) PAVE ALL STREETS AND PARKING AREAS. SEDIMENT INLET TRAP PROTECTION MAY REQUIRE MODIFICATION TO MATCH PHASE-III PLAN.

8) ALL SEDIMENT PONDS AND PERIMETER SILT FENCE IS TO BE MAINTAINED FOR THE DURATION OF BUILDING AND SITE CONSTRUCTION. AT COMPLETION OF BUILDING/SITE INFRASTRUCTURE CONSTRUCTION, ALL AREAS ARE TO BE PERMANENTLY VEGETATED.

9) UPON FINAL STABILIZATION TO STORMWATER MANAGEMENT AREAS, INSTALLATION OF WATER QUALITY AND/OR INFILTRATION MEASURES SHALL BE COMPLETED. IMMEDIATELY UPON COMPLETION, AS-BUILT SURVEYS OF THESE SHOULD BE COMPLETED AND PROVIDED TO THE ENGINEER FOR REVIEW. NOTE THAT IMPROPERLY CONSTRUCTED STORMWATER MANAGEMENT AREAS MAY RESULT IN ADDITIONAL LAND DISTURBANCE. CORRECTIVE ACTION, IF REQUIRED, SHOULD BE TAKEN BEFORE A NOTICE OF TERMINATION IS FILED.

10) UPON FINAL STABILIZATION OF 100% OF THE CONTRIBUTING ON-SITE DRAINAGE AREAS, REMOVE THE RESPECTIVE TEMPORARY STRUCTURAL BMP'S USE PERMANENT VEGETATIVE BMP'S AND LANDSCAPING SHOWN ON THE PHASE-III AND LANDSCAPE PLAN TO STABILIZE DISTURBED AREAS FROM STRUCTURAL BMP'S AS THEY ARE REMOVED.

NOTICE OF TERMINATION (NOT)

1) THE PRIMARY PERMITTEE IS TO SUBMIT A NOTICE OF TERMINATION ONCE THE FOUR FOLLOWING CRITERIA ARE MET:

A) THE ENTIRE STANDALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION;
B) ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE NPDES PERMIT HAVE CEASED; AND
C) THE SITE IS IN COMPLIANCE WITH THIS PERMIT AND ALL TEMPORARY BMP'S HAVE BEEN REMOVED.

2) IF THE PRIMARY PERMITTEE HAS ELECTED TO SUBMIT NOI'S FOR SEPARATE PHASES OF THE STANDALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STANDALONE DEVELOPMENT ON THE NOT MUST CORRESPOND TO THE PHASE OR PHASES IN THE NOI.

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GEORGIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
Cd	CHECK DAM		V	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Cd-S	CHECK DAM STONE CHECK DAM		V	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Cd-Hb	CHECK DAM STRAW-BALE CHECK DAMS		V	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Cd-Fs	CHECK DAM COMPOST FILTER SOCK		V	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION		Ch	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Ch-1	CHANNEL STABILIZATION CATEGORY 1 (0-5 FT/S) VEGETATED LINING		Ch-1	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Ch-2	CHANNEL STABILIZATION CATEGORY 2 (2-10 FT/S) RIP RAP LINING		Ch-2	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Ch-3	CHANNEL STABILIZATION CATEGORY 3 (> 10 FT/S) CONCRETE LINING		Ch-3	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr	A travel way constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Cw	CONCRETE WASHOUT AREA			
Dc	STREAM DIVERSION CHANNEL		Dc	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Dc-A	STREAM DIVERSION CHANNEL (0-2.5 FT/S) GEOTEXTILE, POLYETHYLENE FILM, OR SOD		Dc-A	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Dc-B	STREAM DIVERSION CHANNEL (0-2.5 FT/S) GEOTEXTILE ALONE		Dc-B	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Dc-C	STREAM DIVERSION CHANNEL (0-2.5 FT/S) CLASS I RIPRAP AND GEOTEXTILE		Dc-C	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 DOWN DRAIN STRUCTURE		Dn1	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 DOWN DRAIN STRUCTURE		Dn2	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING		Fr	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABIONS		Ga	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Gr	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		Lv	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		Rd	A permanent or temporary stone filter dam installed across small streams or drainage ways.
Re	RETAINING WALL		Re	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETROFITTING		Rt	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE WITH STONE FILTER		Rt-P	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-B	RETROFITTING SLOTTED BOARD DAM WITH STONE OR FILTER FABRIC		Rt-B	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-Sg	RETROFITTING SILT CONTROL GATE		Rt-Sg	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		—Sd1—	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.
Sd1-NS	SEDIMENT BARRIER TYPE NS: NONSENSITIVE AREAS		—Sd1-NS—	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.
Sd1-S	SEDIMENT BARRIER TYPE S: SENSITIVE AREAS		—Sd1-S—	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.
Sd1-Fs	SEDIMENT BARRIER TYPE S: SENSITIVE AREAS COMPOST FILTER SOCK		—Sd1-Fs—	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.
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER (TIMBER CLEARING ONLY)		—Sd1-BB—	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.
Sd2-E	INLET SEDIMENT TRAP EXCAVATED 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.
Sd2-F	INLET SEDIMENT TRAP FILTER FABRIC WITH SUPPORTING FRAME			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.
Sd2-B	INLET SEDIMENT TRAP BAFFLE BOX			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.
Sd2-Bg	INLET SEDIMENT TRAP BLOCK AND GRAVEL DROP INLET PROTECTION			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.
Sd2-G	INLET SEDIMENT TRAP GRAVEL DROP INLET PROTECTION			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.
Sd2-S	INLET SEDIMENT TRAP SOD INLET PROTECTION			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.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
Sd2-P	INLET SEDIMENT TRAP CURB INLET PROTECTION	Catch Basin / Curbing / Pavement / FLOW		
Sd3	TEMPORARY SEDIMENT BASIN		Sd3	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		Sd4	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.
Sd4-A	TEMPORARY SEDIMENT TRAP OVERFLOW		Sd4-A	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.
Sd4-B	TEMPORARY SEDIMENT TRAP COMBINATION STRAW BALE AND SILT FENCE OUTLET		Sd4-B	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.
Sd4-C	TEMPORARY SEDIMENT TRAP ROCK OUTLET		Sd4-C	A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER		Sk	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
SpB	SEEP BERM		SpB	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.
Sr	TEMPORARY STREAM CROSSING		Sr	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
Sr-B	TEMPORARY STREAM CROSSING BRIDGE CROSSING		Sr-B	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
Sr-C	TEMPORARY STREAM CROSSING CULVERT CROSSING		Sr-C	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORM DRAIN OUTLET PROTECTION		St	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		Su	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN		Tc	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tc-F	TURBIDITY CURTAIN FLOATING TURBIDITY CURTAINS		Tc-F	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tc-S	TURBIDITY CURTAIN STAKED TURBIDITY CURTAINS		Tc-S	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		Tp	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 WATERWAY OR STORMWATER CONVEYANCE CHANNEL		Wt	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf	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		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 TEMPORARY SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seeding on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A permanent vegetative cover using sods on highly erodible 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	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAM BANK STABILIZATION		Sb	The use of readily available native plant materials to maintain and enhance steam banks, or to prevent, or restore and repair small stream bank 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 causing the organic material to bind together.
Tac-1	TACKIFIERS TYPE I: SYNTHETIC POLYMERS		Tac-1	Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Tac-2	TACKIFIERS TYPE II: ORGANIC POLYMERS		Tac-2	Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Tac-3	TACKIFIERS TYPE III: SYNTHETIC/ORGANIC BLENDS		Tac-3	Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Tac-4	TACKIFIERS TYPE IV: ORGANIC TACKIFIERS WITH SYNTHETIC FIBERS		Tac-4	Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Tac-5	TACKIFIERS TYPE V: SYNTHETIC/ORGANIC BLENDS WITH SYNTHETIC FIBERS		Tac-5	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

GASWCC CHECKLIST

SHEET	Y/N	NO.	CHECKLIST DESCRIPTION
C-4.2	Y	1.)	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1of the year in which the land-disturbing activity was permitted.
C-4.0	Y	2.)	Level II certification number issued by the Commission, signature and seal of the certified design professional.
C-4.0	Y	3.)	Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD district office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMP's listed in Appendix 1 of this checklist.*
C-4.0	Y	4.)	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
C-4.0	Y	5.)	Provide name, address, email address and phone number of primary permittee.
C-4.3 - C-4.5	Y	6.)	Note total and disturbed acreage of the project or phase under construction.
C-4.0	Y	7.)	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
C-4.0	Y	8.)	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested therevisions.
C-4.0	Y	9.)	Description of the nature of construction activity
C-4.0	Y	10.)	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C-4.0	Y	11.)	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
C-4.0	Y	12.)	Design Professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as Stated on Part IV page 19 of the permit.
C-4.0	Y	13.)	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 Part IV page 19 of the permit.*
C-4.0	Y	14.)	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMP's within 7 days after installation." in accordance with Part IV.A.5 of this permit*
C-4.0	Y	15.)	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits."
C-4.0	Y	16.)	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C-4.0	Y	17.)	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional."*
C-4.0	Y	18.)	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
C-4.0	Y	19.)	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation fo erosion and sediment control measures and practices prior to land disturbing activities."
C-4.1	Y	20.)	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
C-4.1	Y	21.)	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
C-4.1	Y	22.)	Any construction activity which discharges stormwater into an impaired stream segment, or within 1 linear mile upstream of an within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III.C of the Permit. Include the completed Appendix 1 listing all the BMP's that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
C-4.1	Y	23.)	If a TMDL implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of a NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Plan.*
C-4.1	Y	24.)	BMP'S for concrete washdown of tools, concrete mixer chutes, hoppers, and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*
C-4.1	Y	25.)	Provide BMP's for the remediation of all petroleum spills and leaks.
C-4.1	Y	26.)	Description of the measures that will be installed during the construction process to control pollutants in stormwater that will occur after construction operations have been completed.*
C-4.1	Y	27.)	Description of practices to provide cover for building materials and building products on site.*
C-4.1	Y	28.)	Description of the practices that will be used to reduce the pollutants in stormwater discharges.*
C-4.1	Y	29.)	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMP's, clearing & grubbing activities, excavation activities, utility activities, temporary and final stabilization).
C-4.1	Y	30.)	Provide complete requirements of inspections and record keeping by the primary permittee.*
C-4.1	Y	31.)	Provide Complete requirements of sampling frequency and reporting of sampling results.*
C-4.1	Y	32.)	Provide complete details for retention of records as per Part IV.F of the permit.*
C-4.1	Y	33.)	Description of analytical methods to be used to collect and analyze the samples from each location.*
C-4.1	Y	34.)	Appendix B rationale for NTU values at all outfall sampling points where applicable.*
C-4.1	Y	35.)	Delineate all sampling locations, perennial and intermittent streams, and other water bodies into which stormwater is discharged.*
C-4.2	Y	36.)	A description of the appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMP's are the same, the plan may combine all of the BMPs into a single phase.*
C-4.3 - C-4.5	Y	37.)	Graphic Scale and North Arrow
C-4.X	Y	38.)	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: SCALE: 1"=100' OR LARGER Ground Slope (%) — Contour Intervals (ft) Flat (0-2%) — 0.5 or 1 Rolling (2-8%) — 1 or 2 Steep (8%+) — 2, 5, or 10
	N/A	39.)	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org
	N/A	40.)	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.*
C-4.3 - C-4.5	Y	41.)	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the local issuing authority. Clearly note and delineate all areas of impact.
C-4.3 - C-4.5	Y	42.)	Delination of on-site wetlands and all state waters located on and within 200 feet of the project site.
	Y	43.)	Delineation and acreage of contributing drainage basins on the project site.
C-4.3 - C-4.5	Y	44.)	Provide hydrology study and maps of drainage basins for both the pre- and post- developed conditions.*
C-4.3 - C-4.5	Y	45.)	An estimate of hte runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
C-4.3 - C-4.5	Y	46.)	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
C-4.3 - C-4.5	Y	47.)	Soil series for the project site and their delineation.
C-4.3 - C-4.5	Y	48.)	The limits of disturbance for each phase of construction.
C-4.3 - C-4.5	Y	49.)	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
C-4.3 - C-4.5	Y	50.)	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6 with legend.
C-4.6 - C-4.8	Y	51.)	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
C-4.3 - C-4.5	Y	52.)	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates, and seeding, fertilizer, lime, and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perenial stream the * checklist items would be N/A

SOIL TYPE

FaE	FANNIN FINE SANDY LOAM, 10 TO 25 PERCENT SLOPE
HIE	HAYESVILLE SANDY LOAM, 10 TO 25 PERCENT SLOPES

LEGEND

CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
N/A	BASIN DELINEATION	N/A	— —	
N/A	LIMITS OF DISTURBANCE	N/A	—LOD—	
N/A	SOIL DELINEATION	N/A	— —	

SEE SHEET SERIES C-4 FOR EROSION AND SEDIMENTATION CONTROL PLANS

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

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FORESITE group

GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES

SHEET NUMBER

C-4.2

3/06/2019 1:06:44 PM

SHEET NAME: INITIAL EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN **SHEET NUMBER:** C-4.3 **PROJECT NAME:** DAWSON COUNTY SENIOR CENTER EXPANSION

FILENAME: F:\21.029 Dawson Senior Center - Dawson County, GA\DWG\C-4.3 ESPC Initial Plan.dwg

SITE DATA		
LAND LOTS 248 & 249, 13TH DISTRICT		
TOTAL SITE AREA =	7.266	AC.
TOTAL DISTURBED AREA =	7.5	AC.
TOTAL STORAGE REQUIRED =	498.51	CY.
STORAGE PROVIDED:		
Sd2 STORAGE PROVIDED =	194	CY.
Sd3 STORAGE PROVIDED =	668	
Sd4 STORAGE PROVIDED =	593	
TOTAL STORAGE PROVIDED =	1455	CY.

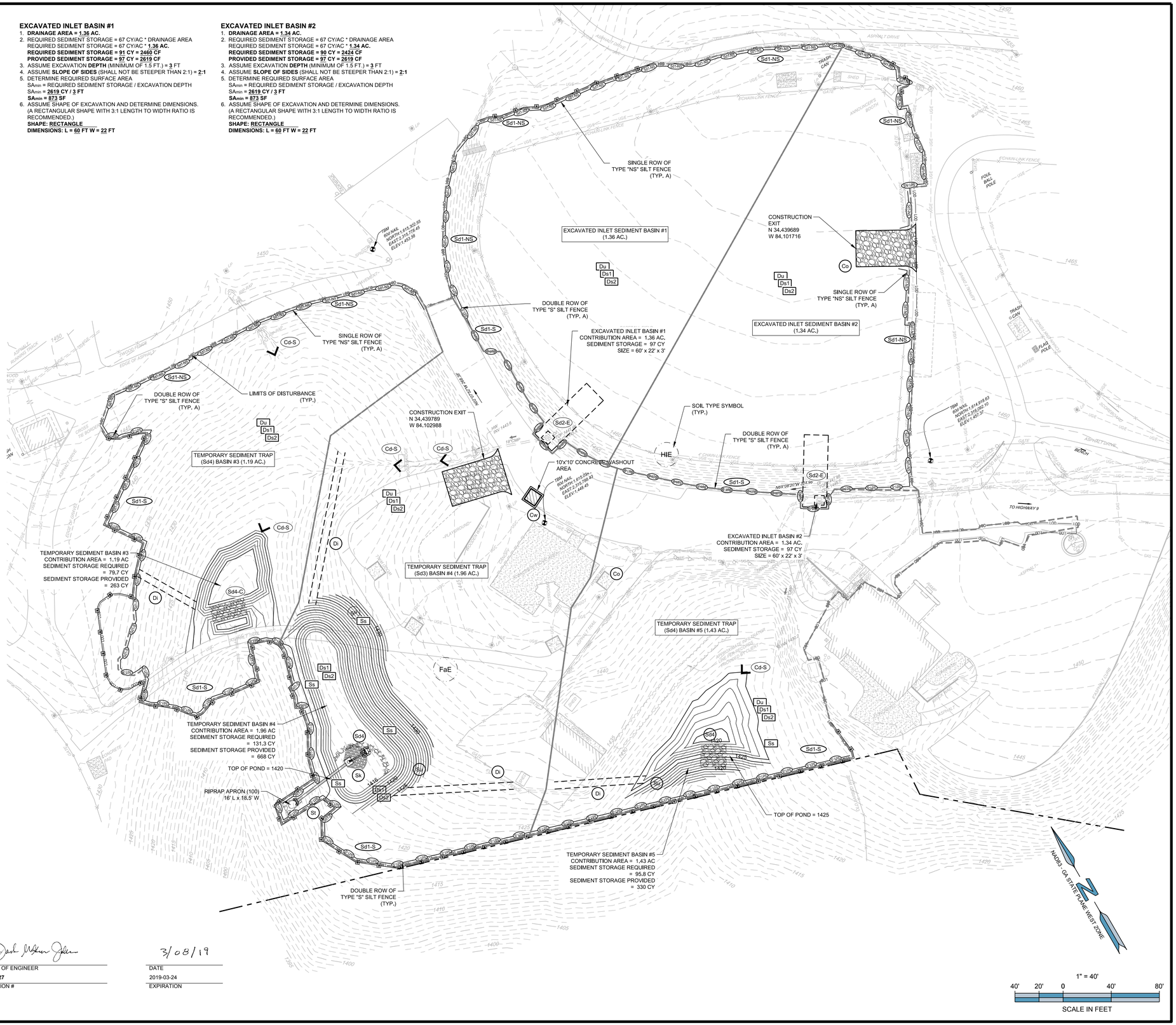
SOIL TYPE	
FaE	FANNIN FINE SANDY LOAM, 10 TO 25 PERCENT SLOPE
HIE	HAYESVILLE SANDY LOAM, 10 TO 25 PERCENT SLOPES

EROSION NOTES:

1. **THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.**
2. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
3. **EROSION AND SEDIMENT 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.**
4. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.**
5. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE ACCUMULATED SILT IS ONE-THIRD (1/3) FULL FOR ALL EROSION & SEDIMENT CONTROL STRUCTURES.
6. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
7. SEE ADDITIONAL EROSION CONTROL NOTES ON SHEETS C-4 THROUGH C-4.2

EXCAVATED INLET BASIN #1
1. **DRAINAGE AREA = 1.36 AC.**
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DRAINAGE AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * **1.36 AC.**
   REQUIRED SEDIMENT STORAGE = 91 CY = 2460 CF
   PROVIDED SEDIMENT STORAGE = 97 CY = 2619 CF
3. ASSUME EXCAVATION **DEPTH** (MINIMUM OF 1.5 FT.) = **3** FT
4. ASSUME **SLOPE OF SIDES** (SHALL NOT BE STEEPER THAN 2:1) = **2:1**
5. DETERMINE REQUIRED SURFACE AREA
   SA_{min} = REQUIRED SEDIMENT STORAGE / EXCAVATION DEPTH
   SA_{min} = **2619 CY / 3 FT**
   SA_{min} = 873 SF
6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS. (A RECTANGULAR SHAPE WITH 3:1 LENGTH TO WIDTH RATIO IS RECOMMENDED.)
   SHAPE: RECTANGLE
   DIMENSIONS: L = 60 FT W = 22 FT

EXCAVATED INLET BASIN #2
1. **DRAINAGE AREA = 1.34 AC.**
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DRAINAGE AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * **1.34 AC.**
   REQUIRED SEDIMENT STORAGE = 90 CY = 2424 CF
   PROVIDED SEDIMENT STORAGE = 97 CY = 2619 CF
3. ASSUME EXCAVATION **DEPTH** (MINIMUM OF 1.5 FT.) = **3** FT
4. ASSUME **SLOPE OF SIDES** (SHALL NOT BE STEEPER THAN 2:1) = **2:1**
5. DETERMINE REQUIRED SURFACE AREA
   SA_{min} = REQUIRED SEDIMENT STORAGE / EXCAVATION DEPTH
   SA_{min} = **2619 CY / 3 FT**
   SA_{min} = 873 SF
6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS. (A RECTANGULAR SHAPE WITH 3:1 LENGTH TO WIDTH RATIO IS RECOMMENDED.)
   SHAPE: RECTANGLE
   DIMENSIONS: L = 60 FT W = 22 FT



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3/08/19
DATE

2019-03-24
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3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

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2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

INITIAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

SHEET NUMBER

C-4.3

SITE DATA

LAND LOTS 248 & 249, 13TH DISTRICT		
TOTAL SITE AREA =	7.266	AC.
TOTAL DISTURBED AREA =	7.5	AC.
TOTAL STORAGE REQUIRED =	498.51	CY.
STORAGE PROVIDED:		
Sd2 STORAGE PROVIDED =	51.5	CY.
Sd3 STORAGE PROVIDED =	1435	CY.
Sd4 STORAGE PROVIDED =	265	CY.
SILT FENCE STORAGE =	65	CY.
TOTAL STORAGE PROVIDED =	1816.5	CY.

SOIL TYPE

FaE	FANNIN FINE SANDY LOAM, 10 TO 25 PERCENT SLOPE
HIE	HAYESVILLE SANDY LOAM, 10 TO 25 PERCENT SLOPES

EROSION NOTES:

1. **THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.**
2. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
3. **EROSION AND SEDIMENT 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.**
4. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.**
5. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE ACCUMULATED SILT IS ONE-THIRD (1/3) FULL FOR ALL EROSION & SEDIMENT CONTROL STRUCTURES.
6. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
7. SEE ADDITIONAL EROSION CONTROL NOTES ON SHEETS C-4 THROUGH C-4.2

SILT FENCE SEDIMENT BASIN #1-A

1. DRAINAGE AREA **= 1.31 AC.**
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * **1.31 AC.**
   REQUIRED SEDIMENT STORAGE = 87.8 CY = 2370 CF
   PROVIDED SEDIMENT STORAGE = 18.75 CY = 506 CF
3. SEDIMENT CLEANOUT **DEPTH** (MINIMUM OF 1.5 FT.) = **1.5** FT
4. **SLOPES = 3:1**
5. SEDIMENT STORAGE (SF) PER LINEAR FOOT OF SILT FENCE
   SF = $\frac{1}{2}$*B*H = **$\frac{1}{2}$*4.5*1.5 = 3.375 SF per LF**
6. SILT FENCE PROVIDED FOR USE AS STORAGE = **150.0 LF**
7. STORAGE VOLUME = **506 CF = 18.75** CY

SILT FENCE SEDIMENT BASIN #3-A

1. DRAINAGE AREA **= 0.72 AC.**
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * **0.72 AC.**
   REQUIRED SEDIMENT STORAGE = 48.2 CY = 1302 CF
   PROVIDED SEDIMENT STORAGE = 27.5 CY = 743 CF
3. SEDIMENT CLEANOUT **DEPTH** (MINIMUM OF 1.5 FT.) = **1.5** FT
4. **SLOPES = 3:1**
5. SEDIMENT STORAGE (SF) PER LINEAR FOOT OF SILT FENCE
   SF = $\frac{1}{2}$*B*H = **$\frac{1}{2}$*4.5*1.5 = 3.375 SF per LF**
6. SILT FENCE PROVIDED FOR USE AS STORAGE = **220.0 LF**
7. STORAGE VOLUME = **743 CF = 27.5 CY**

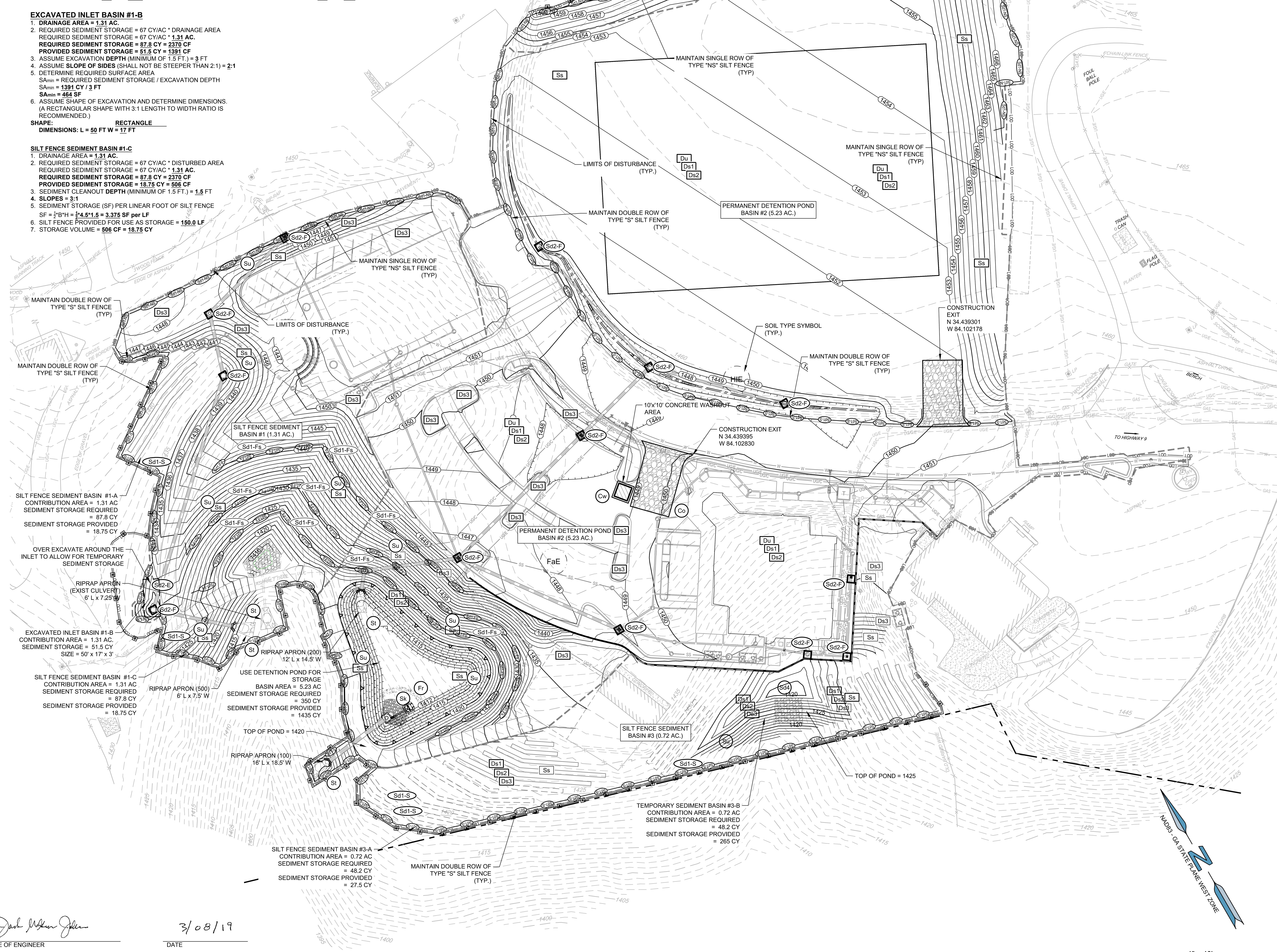
EXCAVATED INLET BASIN #1-B

1. **DRAINAGE AREA = 1.31 AC.**
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DRAINAGE AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * **1.31 AC.**
   REQUIRED SEDIMENT STORAGE = 87.8 CY = 2370 CF
   PROVIDED SEDIMENT STORAGE = 51.5 CY = 1391 CF
3. ASSUME EXCAVATION **DEPTH** (MINIMUM OF 1.5 FT.) = **3** FT
4. ASSUME **SLOPE OF SIDES** (SHALL NOT BE STEEPER THAN 2:1) = **2:1**
5. DETERMINE REQUIRED SURFACE AREA
   SA_{min} = REQUIRED SEDIMENT STORAGE / EXCAVATION DEPTH
   SA_{min} = **1391 CY / 3 FT**
   SA_{min} = 464 SF
6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS. (A RECTANGULAR SHAPE WITH 3:1 LENGTH TO WIDTH RATIO IS RECOMMENDED.)

SHAPE: RECTANGLE
DIMENSIONS: L = 50 FT W = 17 FT

SILT FENCE SEDIMENT BASIN #1-C

1. DRAINAGE AREA **= 1.31 AC.**
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * **1.31 AC.**
   REQUIRED SEDIMENT STORAGE = 87.8 CY = 2370 CF
   PROVIDED SEDIMENT STORAGE = 18.75 CY = 506 CF
3. SEDIMENT CLEANOUT **DEPTH** (MINIMUM OF 1.5 FT.) = **1.5** FT
4. **SLOPES = 3:1**
5. SEDIMENT STORAGE (SF) PER LINEAR FOOT OF SILT FENCE
   SF = $\frac{1}{2}$*B*H = **$\frac{1}{2}$*4.5*1.5 = 3.375 SF per LF**
6. SILT FENCE PROVIDED FOR USE AS STORAGE = **150.0 LF**
7. STORAGE VOLUME = **506 CF = 18.75 CY**



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SIGNATURE OF ENGINEER	DATE 3/08/19
000006080827	2019-03-24
CERTIFICATION #	EXPIRATION

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

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GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON 3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

INTERMEDIATE EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

C-4.4

SOIL TYPE	
FaE	FANNIN FINE SANDY LOAM, 10 TO 25 PERCENT SLOPE
HIE	HAYESVILLE SANDY LOAM, 10 TO 25 PERCENT SLOPES

EROSION NOTES:

1. **THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.**
2. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
3. **EROSION AND SEDIMENT 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.**
4. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.**
5. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE ACCUMULATED SILT IS ONE-THIRD (1/3) FULL FOR ALL EROSION & SEDIMENT CONTROL STRUCTURES.
6. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
7. SEE ADDITIONAL EROSION CONTROL NOTES ON SHEETS C-4 THROUGH C-4.2

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2019-03-24
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GEORGIA REGISTERED
No. PE 035923
PROFESSIONAL ENGINEER
JACK McGOWAN JOHNSON
3/08/19

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DAWSONVILLE, GA 30534

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Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

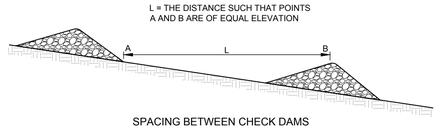
FINAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

SHEET NUMBER

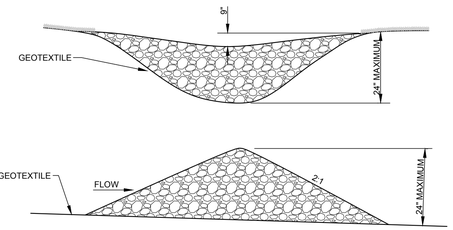
C-4.5

SHEET NAME: FINAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN **SHEET NUMBER:** C-4.5 **PROJECT NAME:** DAWSON COUNTY SENIOR CENTER EXPANSION

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\DWG\C-4.5 ESPC Final Plan.dwg

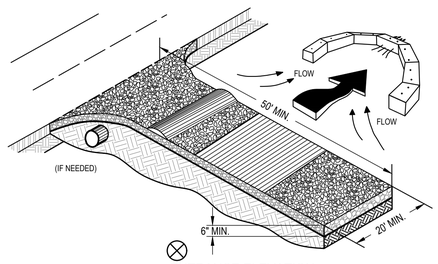


SPACING BETWEEN CHECK DAMS

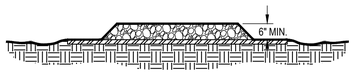


Cd-S STONE CHECK DAM
NOT TO SCALE

EXIT DIAGRAM

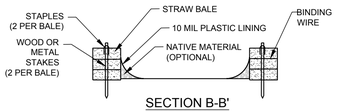


ENTRANCE ELEVATION

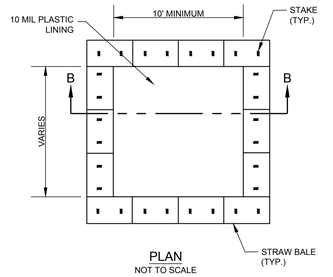


NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD 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.

Co CRUSHED STONE CONSTRUCTION EXIT
NOT TO SCALE

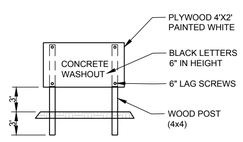


SECTION B-B'
NOT TO SCALE

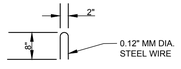


PLAN
NOT TO SCALE

TYPE 'ABOVE GRADE'
WITH STRAW BALES



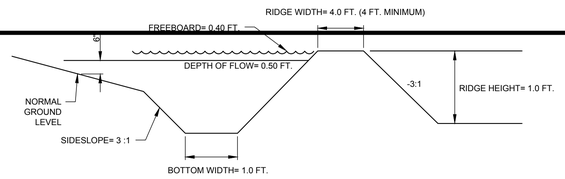
CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)



STAPLE DETAIL

NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN (SEE FIG. 4-15) SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

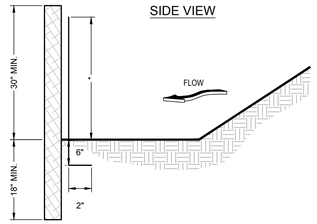
Cw CONCRETE WASHOUT
NOT TO SCALE



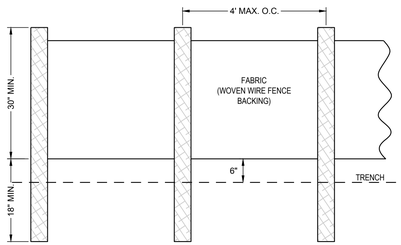
NOTES:
1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
2. THE DIVERSION SHALE BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. ALL FILLS SHALL BE MACHINE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION
5. DIVERSION CHANNEL SHALL BE STABILIZED IN ACCORDANCE WITH SPECIFICATION CH - CHANNEL STABILIZATION.

Di DIVERSION
NOT TO SCALE

SIDE VIEW



FRONT VIEW



NOTES:
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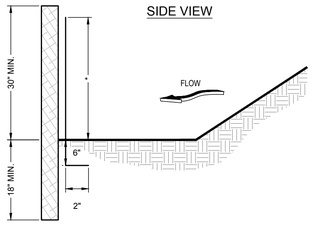
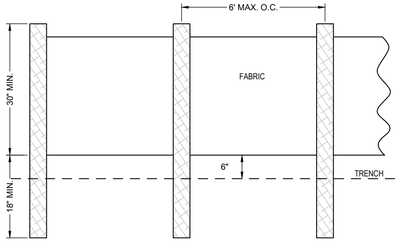
2. HEIGHT (") IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-S SILT FENCE -TYPE SENSITIVE
NOT TO SCALE

SIDE VIEW



FRONT VIEW



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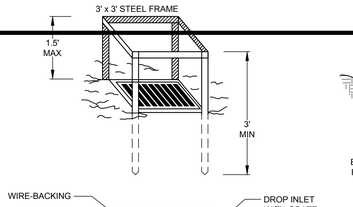
Sd1-NS SILT FENCE -TYPE NONSENSITIVE
NOT TO SCALE



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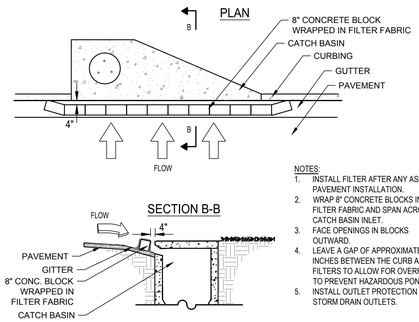
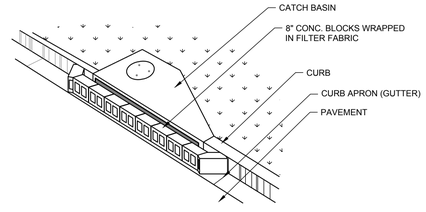
3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2 X 4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST.
4. PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL THE TRENCH WITH CRUSHED STONE OF COMPACTED SOIL.
5. FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

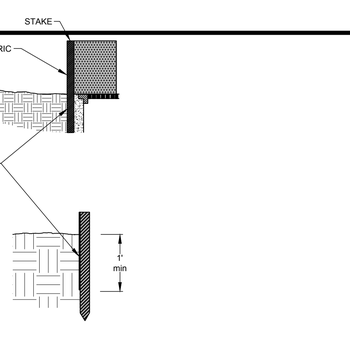
Sd2-F INLET SEDIMENT TRAP - FILTER FABRIC WITH SUPPORTING FRAME
NOT TO SCALE



NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.



Sd2-P CURB INLET FILTER "PIGS IN BLANKET"
NOT TO SCALE



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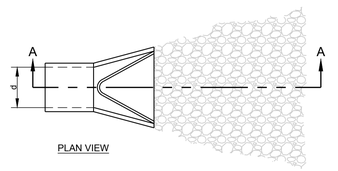
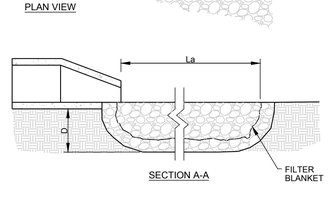
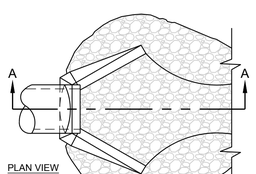
St STORM OUTLET PROTECTION
NOT TO SCALE

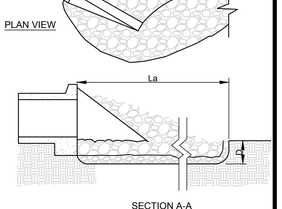
PIPE OUTLET TO FLAT AREA - NO WELL-DEFINED CHANNEL





PIPE OUTLET TO WELL - DEFINED CHANNEL



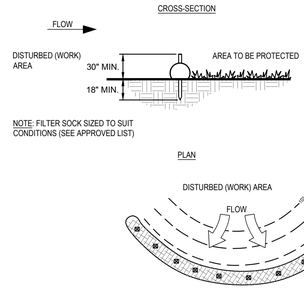


NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D= 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE TOP OF PIPE OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHELL BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
5. GRADED RIPRAP STONE (MIN. 50 LB. STONE) NSA. NO. R-4 - 12" mix. 6" avg
6. FILTER STONE NO. FS-2

Rip-Rap Apron Summary

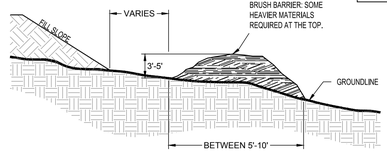
Headwall ID	Pipe Diameter, D0 (in)	25-year Q (cfs)	25-year Velocity (ft/sec)	Rip-Rap Size d50	Initial Apron width (ft)	Apron Length, La (ft)	Apron Width, W (ft)
100	30	18.3	3.7	0.60	7.5	16	18.5
200	30	16.7	3.4	0.60	7.5	12	14.5
500	18	1.5	0.8	0.10	4.5	6	7.5
Ex Culvert	15	2.2	1.8	0.10	3.75	6	7.25

Sd1-Fs COMPOST FILTER SOCK
NOT TO SCALE



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

Sd1-Bb BRUSH BARRIER
NOT TO SCALE



NOTES:
1. INTERMINGLE BRUSH, LOGS, ETC. SO AS TO NOT FORM A SOLID DAM.
2. BRUSH SHOULD BE WIND-ROWED ON THE CONTOUR AS CLOSE AS POSSIBLE.
3. MINIMUM BASE WIDTH FOR BARRIER SHALL BE 5 FEET AND SHOULD BE NO WIDER THAN 10 FEET. THE HEIGHT OF THE BARRIER SHOULD BE BETWEEN 3' AND 5'.
4. A COMMERCIALLY AVAILABLE FILTER FABRIC MAY BE PLACED ON THE SIDE OF THE BRUSH BARRIER RECEIVING SEDIMENT-LADEN RUNOFF FOR ADDED FILTER CAPACITY (LOWER EDGE MUST BE BURIED IN A 6 INCH DEEP TRENCH AND THE UPPER EDGE MUST BE FASTENED TO THE BRUSH BARRIER).

DESIGNING ARCHITECT
WAKEFIELD BEASLEY & ASSOCIATES
A NELSON Company
ARCHITECT OF RECORD
NELSON
Nelco Architecture, Inc.
a licensed affiliate of Nelson Worldwide, LLC.
FORESITE group

GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION
201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record
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2019-02-04 BID PACKAGE
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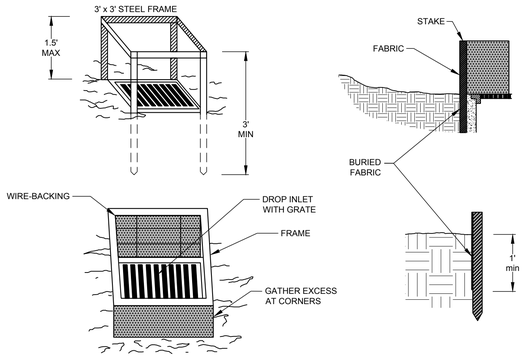
PROJECT NUMBER

EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

SHEET NUMBER
C-4.6



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Sd2-F INLET SEDIMENT TRAP - FILTER FABRIC WITH SUPPORTING FRAME
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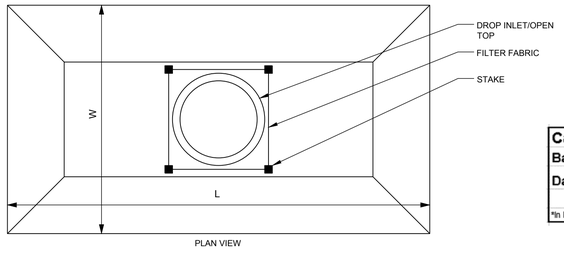
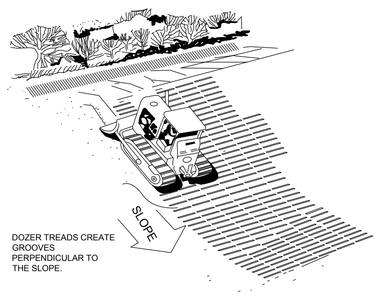
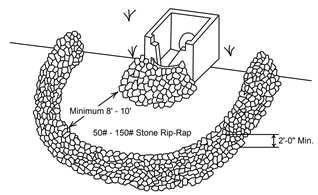


PLAN VIEW

Sd2-E EXCAVATED INLET SEDIMENT TRAP
NOT TO SCALE



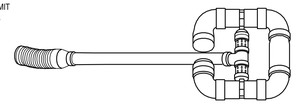
Su SURFACE ROUGHENING - WITH TRACKING
NOT TO SCALE



Fr FILTER RING
NOT TO SCALE

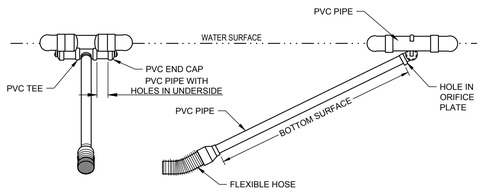
NOTE: SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.

SKIMMER PERSPECTIVE



SKIMMER FRONTAL SECTION VIEW

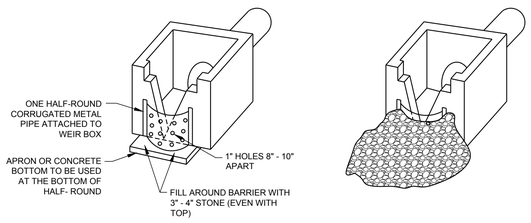
SKIMMER SIDE SECTION VIEW



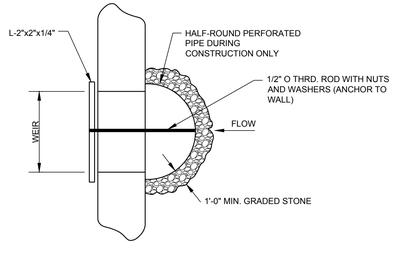
SKIMMER DEVICE
NOT TO SCALE

Calculate Skimmer Size					
Basin Volume in Cubic Feet	227,835	Cu.Ft	Skimmer Size	8.0	Inch
Days to Drain*	3	Days	Orifice Radius	3.5	Inch[es]
			Orifice Diameter	7.0	Inch[es]
*In NC assume 3 days to drain					

Sk SKIMMER DEVICE
NOT TO SCALE



ISOMETRICS



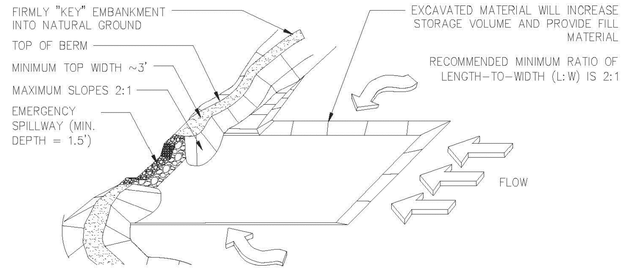
PLAN

Rt-P RETROFITTING
PERFORATED HALF-ROUND PIPE WITH STONE FILTER
NOT TO SCALE

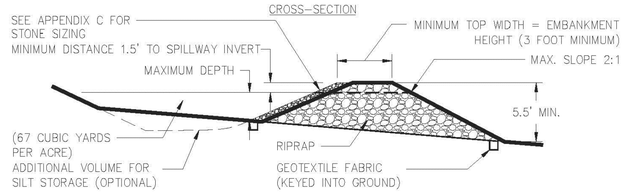
TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

ROCK OUTLET



CROSS-SECTION



PROFILE THROUGH EMBANKMENT

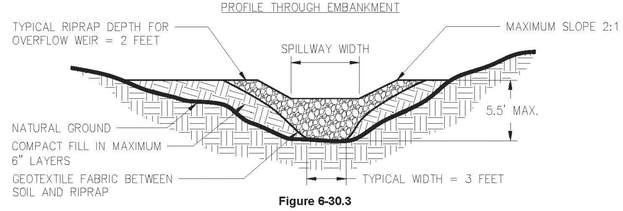


Figure 6-30.3

DESIGNING ARCHITECT
WAKEFIELD BEASLEY & ASSOCIATES
A NELSON Company
ARCHITECT OF RECORD
NELSON
Nelco Architecture, Inc.
a licensed affiliate of Nelson Worldwide, LLC.
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EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

SHEET NUMBER
C-4.7

2/08/2019 4:50:41 PM

SHEET NAME: EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS SHEET NUMBER: C-4.8 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

Ds1 MULCHING FOR TEMPORARY STABILIZATION WITHOUT VEGETATION

WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

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.

MULCH MATERIALS AND APPLICATION RATES	
MATERIAL	RATE
STRAW OR HAY	2-4" DEEP
WOOD WASTE, CHIPS, SAW DUST, OR BARK	2-3" DEEP (ABOUT 6-9 TONS/ACRE)
MATTING OR NETTING	ACCORDING TO MANUFACTURER RECOMMENDATIONS
POLYETHYLENE FILM	CAN BE LAID OVER SENSITIVE AREAS AND STOCKPILES, MUST BE SECURED.

APPLICATION

1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, ADD 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT.

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.
2. 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.
3. 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.
4. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

GRADING AND SHAPING

1. EXCESSIVE WATER RUNOFF SHALL BE REDUCED BY PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, AND OTHERS
2. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

1. WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.
2. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER

1. SOIL TESTS MUST BE PERFORMED DETERMINE THE REQUIRED AMOUNTS OF FERTILIZER, LIME, AND OTHER AMENDMENTS. SOIL TESTS SHOULD INCLUDE RECOMMENDATIONS FOR APPLICATION RATES.
2. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR PH. QUICK ACTING LIME SHOULD BE INCORPORATED TO MODIFY PH DURING THE GERMINATION PERIOD.
3. ALL GRADED AREAS REQUIRE LIME APPLICATION UNLESS SOIL TEST INDICATE OTHERWISE.
4. BIOSTIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL.
5. FERTILIZER SHOULD BE APPLIED BEFORE SEEDBED PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL. ON SLOPES TOO STEEP FOR, OR INACCESSIBLE TO EQUIPMENT, FERTILIZER SHALL BE HYDRAULICALLY APPLIED, PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE.
6. FOR LOW FERTILITY SOILS, AGRICULTURAL LIME & FERTILIZER REQUIRED UNLESS SOIL TESTS SHOW IT IS NOT REQUIRED AND THAT SOILS ARE REASONABLY FERTILE. FOR LOW FERTILITY SOILS, APPLY 10-10-10 FERTILIZER AT 500-700 LB/ACRE. APPLY AGRICULTURAL LIME AT 1 TON PER ACRE.

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER-SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND.

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH, PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL. HOWEVER, THE USE OF MULCH CAN OFTEN ACCELERATE AND ENHANCE GERMINATION AND VEGETATION ESTABLISHMENT. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO DS1 - DISTURBED AREA STABILIZATION (Ds1).

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

SPECIES		SEEDING RATE PER 1,000 S.F.	SEEDING RATE PER ACRE*	PLANTING DATES		
				MTNS./ LIMESTONE	PIEDMONT	COASTAL
BARLEY	(ALONE) (IN MIXTURE)	3.3 LBS. 0.6 LBS.	3 bu. 1/2 bu.	9/1-10/31	9/15-11/15	10/1-12/31
RYE	(ALONE) (IN MIXTURE)	3.9 LBS. 0.6 LBS.	3 bu. 1/2 bu.	8/15-10/31	9/15-11/30	10/1-12/31
ANNUAL RYEGRASS	ALONE	0.9 LBS.	40 LBS.	8/15-11/15	9/1-12/15	9/15-12/31
ANNUAL LESPEDEZA	(ALONE) (IN MIXTURE)	0.9 LBS. 0.2 LBS.	40 LBS. 10 LBS.	3/1-3/31	3/1-3/31	2/1-2/28
WEEPING LOVEGRASS	(ALONE) (IN MIXTURE)	0.1 LBS. 0.05 LBS.	4 LBS. 2 LBS.	4/1-5/31	4/1-5/31	3/1-5/31
SUDANGRASS		1.4 LBS.	60 LBS.	5/1-7/31	5/1-7/31	4/1-7/31
BROWN TOP MILLET	(ALONE) (IN MIXTURE)	0.9 LBS. 0.2 LBS.	40 LBS. 10 LBS.	4/15-6/15	4/15-6/60	4/15-6/30
WHEAT	(ALONE) (IN MIXTURE)	4.1 LBS. 0.7 LBS.	3 bu. 1/2 bu.	9/15-11/30	10/1-12-15	10/15-12/31

1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.
3. SEE "THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION" FOR MAJOR LAND RESOURCE AREAS.
4. SEEDING RATES ARE BASED ON PURE LIVE SEED. (PLS)

PLANTING AND FERTILIZER SCHEDULE FOR PERMANENT GRASSING

SPECIES	PURE LIVE SEED (PLS) PER 1,000 S.F.	RATE PER ACRE	PLANTING DATES			YEARS TO APPLY FERTILIZER	FERTILIZER ANALYSIS			FERTILIZER RATE (lb/Ac)	N TOP DRESSING RATE
			MTNS./ LIMESTONE	PIEDMONT	COASTAL		N	P	K		
WEEPING LOVEGRASS AND VIRGATA OR SERICEA LESPEDEZA	0.1 LBS.	4 LBS.	3/15 - 6/15	3/1 - 6/15	2/1 - 6/15	FIRST	6	12	12	1500	50
	1.4 LBS.	40 LBS.	3/15 - 6/15	3/1 - 6/15	2/15 - 6/1	SECOND	0	10	10	1000	-
SERICEA LESPEDEZA SEEDBEARING HAY WITH OVERSEEDED WEEPING LOVEGRASS	138 LBS.	3 TONS	10/1 - 3/1	10/1 - 3/1	10/15 - 2/1	FIRST	6	12	12	1500	50
	0.05 LBS.	2 LBS.	3/1 - 6/15	3/1 - 6/15	2/1 - 6/15	SECOND	0	10	10	1000	-
HULLED COMMON BERMUDAGRASS AND SERICEA LESPEDEZA	0.2 LBS.	10 LBS.	N/A	2/15 - 7/1	2/15 - 6/15	FIRST	6	12	12	1500	50
	1.4 LBS.	60 LBS.	N/A	3/1 - 6/15	2/15 - 6/15	SECOND	0	10	10	1000	-
UNHULLED COMMON BERMUDAGRASS AND VIRGATA OR SERICEA LESPEDEZA SEED HAY	0.2 LBS.	10 LBS.	N/A	11/1 - 2/1		FIRST	6	12	12	1500	50
	1.4 LBS.	40 LBS.	N/A	3/1 - 6/15		SECOND	0	10	10	1000	-
	140 LBS.	3 TONS	N/A	10/1 - 3/1	10/15 - 2/1						
TALL FESCUEGRASS AND CLEAN COMBINE RUN VIRGATA OR SERICEA LESPEDEZA	0.7 LBS	30LBS	8/1 - 11/1	8/15 - 11/1	2/15 - 6/1	FIRST	6	12	12	1500	50(1)
	1.4 LBS.	40 LBS.	3/1 - 4/15 (3/15 - 5/1 FOR LESPEDEZA)	3/1 - 6/15		SECOND	0	10	10	1000	-
TALL FESCUEGRASS (ALONE) *FESTUCA ARUNDINACEA*	1.1 LBS	50LBS	3/1-5/1, 8/15-11/1	9/1-11/1	N/A	FIRST	6	12	12	1500	0-50(1),(2)
						SECOND	6	12	12	1000	
COMMON BERMUDA, HULLED ALONE *CYNODON DACTYLON*	0.2 LBS.	10 LBS.	N/A	4/1-4/31	3/15-5/31	FIRST	6	12	12	1500	50-100
						SECOND	6	12	12	800	50-100
COMMON BERMUDA, UNHULLED *CYNODON DACTYLON (PLANT WITH WINTER ANNUALS)*	0.2 LBS.	10 LBS.	N/A	10/1-3/1	11/1-2/1	FIRST	6	12	12	1500	50-100
						SECOND	6	12	12	800	50-100

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 2-4 INCHES.

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Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

NOTE THAT IN THE CASE OF DISCREPANCIES BETWEEN ANY OF THE INFORMATION BELOW AND THE INFORMATION CONTAINED IN TREE REPLACEMENT AND LANDSCAPE PLANS & DETAILS, THE LATTER SHALL BE USED.

GRADING AND SHAPING

1. GRADING AND SHAPING MAY NOT BE WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.
2. WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION.
3. CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS

LIME AND FERTILIZER RATES

1. AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. ALL GRADED AREAS REQUIRE LIME APPLICATION UNLESS SOIL TEST INDICATE OTHERWISE. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
2. AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES AND SOME LANDSCAPING IS PLANTED, REFER TO TREE PROTECTION AND LANDSCAPE PLANS FOR LIME REQUIREMENTS IN AREAS OF TREES AND SHRUBS.
3. REFER TO THE TABLE ON THIS SHEET OR TABLE 6-5.1 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GA, SIXTH EDITION, FOR FERTILIZER REQUIREMENTS BY PLANTING SPECIES.

LIME AND FERTILIZER APPLICATION

1. WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INNOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FI BER MULCH AND APPLIED IN A SLURRY. THE INNOCULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING PLACED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.
2. FINELY GROUND LIMESTONE CAN BE APPLIED IN THE MULCH SLURRY OR IN COMBINATION WITH THE TOP DRESSING.
3. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:
   a. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
   b. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
   c. BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
   d. A FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH PINE TREE SEEDLING.

PLANT SELECTION

1. PLANT AND LANDSCAPE SPECIES TO BE AS INDICATED ON THE TREE REPLACEMENT PLAN AND LANDSCAPE PLANS. IN THE EVENT NO SUCH PLAN HAS BEEN PREPARED, AND SPECIES IS NOT CALLED OUT SPECIFICALLY ON THE PERMANENT VEGETATION PLAN, SPECIES ARE TO BE SELECTED BASED ON THE TABLES SHOWN ON THIS SHEET OR FROM TABLES 6-4.1, 6-5.2, 6-5.3, OR 6.5-4 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION, AND APPROVED IN WRITING BY THE OWNER.

RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.

SEEDBED PREPARATION

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED (BUT IS STRONGLY RECOMMENDED FOR ANY SEEDING PROCESS, WHEN POSSIBLE). WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

BROADCAST PLANTINGS

1. TILLAGE, AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FI RM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.
2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
3. TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
4. ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

1. ALL INDIVIDUAL PLANTINGS SHOULD BE PERFORMED IN ACCORDANCE WITH LANDSCAPE OR TREE REPLACEMENT PLANS.

INOCULANTS

1. ALL LEGUME SEED SHALL BE INOCULATED WITH APPROPRIATE NITROGEN-FIXING BACTERIA. THE INOCULANT SHALL BE A PURE CULTURE PREPARED SPECIFICALLY FOR THE SEED SPECIES AND USED WITHIN THE DATES ON THE CONTAINER.
2. A MIXING MEDIUM RECOMMENDED BY THE MANUFACTURER SHALL BE USED TO BOND THE INOCULANT TO THE SEED. FOR CONVENTIONAL SEEDING, USE TWICE THE AMOUNT OF INOCULANT RECOMMENDED BY THE MANUFACTURER. FOR HYDRAULIC SEEDING, FOUR TIMES THE AMOUNT OF INOCULANT RECOMMENDED BY THE MANUFACTURER SHALL BE USED.
3. ALL INOCULATED SEED SHALL BE PROTECTED FROM THE SUN AND HIGH TEMPERATURES AND SHALL BE PLANTED THE SAME DAY INOCULATED. NO INOCULATED SEED SHALL REMAIN IN THE HYDROSEEDER LONGER THAN ONE HOUR.

PLANTING

HYDRAULIC SEEDING

MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

CONVENTIONAL SEEDING

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.

NO-TILL SEEDING

NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% TO 100% SOIL COVER. PERMANENT MULCH COVER SELECTION WHERE VEGETATION IS NOT APPLIED SHOULD BE PLACED AS INDICATED ON TREE REPLACEMENT AND/OR LANDSCAPING PLANS, OR AT THE DIRECTION OR APPROVAL OF THE OWNER. MULCH SELECTION FOR TEMPORARY COVER OF PERMANENT VEGETATION SHALL BE BASED ON SELECTION GUIDELINES IN THE "MULCH REQUIREMENTS FOR PERMANENT STABILIZATION" TABLE ON THIS SHEET.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FI BERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING. APPLYING MULCH

APPLYING MULCH

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE..

WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

1. *HAY AND STRAW MULCH* SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK"' OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE 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 DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL.
2. *SYNTHETIC TACKIFIERS, BINDERS OR HYDRAULIC MULCH* SPECIFICALLY DESIGNED TO TACK STRAW, SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ALL TACKIFIERS, BINDERS OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW SHOULD BE VERIFIED NONTOXIC THROUGH EPA 2021.0 TESTING. REFER TO **TACKIFIERS-TAC**.
3. *RYE OR WHEAT* CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHEL PER ACRE.
4. *PLASTIC MESH OR NETTING* WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

BEDDING MATERIAL

MULCH SHALL BE APPLIED TO ORNAMENTAL BEDS, AROUND SHRUBS, AND ON BARE AREAS ON LAWNS. WHEN BEDDING MATERIALS ARE NOT SPECIFIED ON THE LANDSCAPE AND/OR TREE REPLACEMENT PLANS, THE CONTRACTOR SHALL SELECT AND SEEK PRIOR APPROVAL OF THE OWNER TO PLACE BEDDING MATERIAL SHOWN IN THE "MULCH REQUIREMENTS FOR PERMANENT STABILIZATION" TABLE ON THIS SHEET.

IRRIGATION

WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.

TOPDRESSING

TOPDRESSING WILL BE APPLIED ON ALL TEMPORARY AND PERMANENT (PERENNIAL) SPECIES PLANTED ALONE OR IN MIXTURES WITH OTHER SPECIES. RECOMMENDED RATES OF APPLICATION ARE LISTED ON THIS. SHEET AND IN TABLE 6-5.1. OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA, SIXTH EDITION.

MULCH REQUIREMENTS FOR PERMANENT STABILIZATION		
MATERIAL	RATE	WHERE TO USE
DRY STRAW	2 TONS/ACRE	TEMPORARY COVER IN SEEDED AREAS
DRY HAY	2-1/2 TONS/ACRE	
WOOD CELLULOSE MULCH OR WOOD PULP FIBER	500 LB/ACRE	HYDRAULIC APPLICATIONS (REQUIRES STRAW OR HAY APPLICATION NOTED ABOVE FOLLOWING HYDRAULIC SEEDING)
WOOD CELLULOSE OR WOOD PULP FIBER W/ TACKIFIER	1,000 LB/ACRE	USE FOR HYDRAULIC SEEDING ON SLOPES 3/4:1 AND GREATER
SERICEA LESPEDEZA HAY (CONTAINING MATURE SEED)	3 TONS/ACRE	USE ON AREAS WHERE SERICEA LESPEDEZA IS MAY BE ESTABLISHED
GRAIN STRAW	4" TO 6"	FOR AREAS WHERE ORNAMENTALS OR GROUND COVERS ARE PLANTED AND NO LANDSCAPE/TREE REPLACEMENT PLANS HAVE BEEN PREPARED THAT SPECIFY OTHERWISE. REQUIRES ADVANCE APPROVAL OF OWNER. NOT APPROPRIATE FOR GRASS SEEDING APPLICATIONS.
GRASS HAY	4" TO 6"	
PINE NEEDLES	3" TO 5"	
CHIPPED WOOD MULCH	4" TO 6"	
PINE BARK	4" TO 6"	

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)

SOIL PREPARATION

1. BRING SOIL SURFACE TO FI NAL 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.
2. TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A STAND. DON'T USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS.

LIME AND FERTILIZER RATES

1. FERTILIZE AT RATES SHOWN IN THE "FERTILIZER RATES FOR SOD" TABLE ON THIS SHEET.
2. AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS IF AVAILABLE OR AT A RATE OF 1 TO 2 TONS PER ACRE.

INSTALLATION

1. LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD.
2. 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.
3. 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.
4. SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
5. AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER, IF IRRIGATION IS NOT AVAILABLE.
6. THE SOD TYPE SHOULD BE BASED ON THE LANDSCAPE PLANS, OR IN THE CASE LANDSCAPE PLANS ARE NOT INCLUDED, AT THE DIRECTION OF THE OWNER.

FERTILIZER REQUIREMENTS FOR SOD

SPECIES *VARIETY*	RESOURCE AREAS	MAINT. YEAR	FERTILZER (N-P-K)	RATE (LB/AC)	NITROGEN TOP DRESSING (LB/AC)
BERMUDA GRASS *COMMON*	M-L, P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
BAHAIA GRASS *PENSACOLA*	P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
CENTIPEDE	P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
ST AUGUSTINE *COMMON*	P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
ZOYSIA *EMERALD, MYER*	P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
TALL FESCUE *KENTUCKY*	M-L, P	FIRST SECOND	6-12-12 6-12-12	1500 1000	50-100 -

M-L: MOUNTAIN-LIMESTONE, P: PIEDMONT, C: COASTAL

SEE "THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION FOR MAJOR LAND RESOURCE AREAS.

Ss SLOPE STABILIZATION

ALL SLOPE STABILIZATION PRODUCTS MUST HAVE A DOCUMENTED "C" FACTOR OF 0.080 PER ASTM D6459 AND BE ON THE GASWCC APPROVED PRODUCTS LIST (APL).

ROLLED EROSION CONTROL PRODUCT (RECP) CLASSIFICATIONS:

- SHORT TERM - FUNCTIONAL LONGEVITY OF 12 MONTHS
- EXTENDED TERM - FUNCTIONAL LONGEVITY OF 24 MONTHS
- LONG TERM - FUNCTIONAL LONGEVITY OF 36 MONTHS

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", SIXTH EDITION, FOR MORE DETAILED INFORMATION ON SPECIFIC LONGEVITY CRITERIA.

THE APPROVED PRODUCTS LIST AND TEST METHODS FOR APPROVED MATERIALS ARE AVAILABLE AT THE GEORGIA SOIL AND WATER CONSERVATION WEBSITE (HTTP://WWW.GASWCC.GEORGIA.GOV.)

SITE PREPARATION

AFTER THE SITE HAS BEEN SHAPED AND GRADED TO DESIGN, PREPARE A FRIABLE SEEDBED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN ONE INCH IN DIAMETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT CONTACT OF THE SOIL STABILIZATION MAT WITH THE SOIL SURFACE. SURFACE MUST BE SMOOTH TO ENSURE PROPER CONTACT OF BLANKETS OR MATTING TO THE SOIL SURFACE. IF NECESSARY, REDIRECT ANY RUNOFF FROM THE DITCH OR SLOPE DURING INSTALLATION.

MAINTENANCE

ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.

Du DUST CONTROL ON DISTURBED AREAS

REFER TO THE POLLUTION CONTROL NOTES FOR RECOMMENDED SEQUENCE AND PRACTICE OF DUST CONTROL MEASURES.

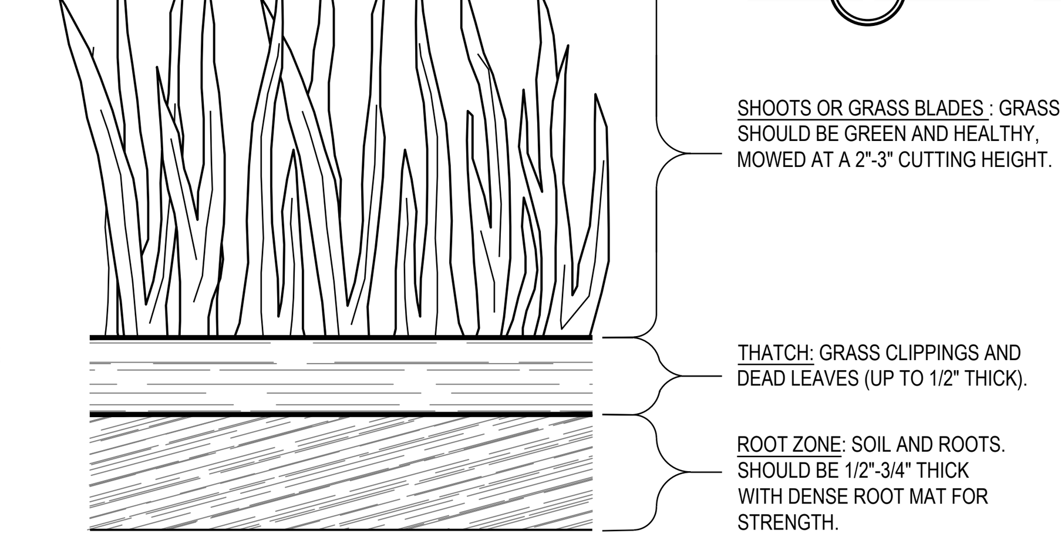
TEMPORARY METHODS

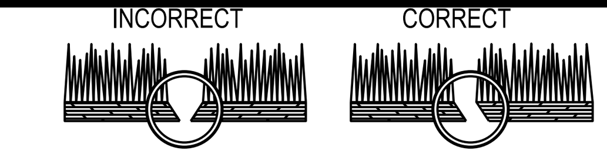
1. *APPLICATION OF MULCH* (SEE Ds1)
2. *TEMPORARY VEGETATIVE COVER* (SEE Ds2)
3. *SPRAY ON ADHESIVES* (SEE Tac)
4. *TILLAGE* - THE ROUGHENING OF SOIL AND BRING CLODS TO THE SURFACE. IT SHOULD BE USED AS AN EMERGENCY MEASURE BEFORE HIGH WIND EROSION POTENTIAL.
5. *IRRIGATION* - SPRINKLE WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
6. *BARRIERS* - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, BALES OF HAY, AND SIMILAR MATERIALS TO BE PLACED TO RIGHT ANGLES OF PREVAILING CURRENTS. TO BE EFFECTIVE, BARRIERS MUST BE AT INTERVALS OF APPROX. 15 TIMES THEIR HEIGHT.
7. *CALCIUM CHLORIDE APPLICATION* - APPLY AS NEEDED TO KEEP SURFACE MOIST.

PREMANENT METHODS

1. PERMANENT VEGETATION - (SEE Ds3)
2. TOPSOILING - COVER WITH LESS EROSIVE TOPSOIL
3. STONE - COVER AREAS SUBJECT TO WIND EROSION AND HIGH TRAFFIC AREAS WITH CRUSHED STONE OR COARSE GRAVEL.

APPEARANCE OF GOOD SOD





BUTTING : ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

DIRECTIONS FOR INITIAL MAINTENANCE

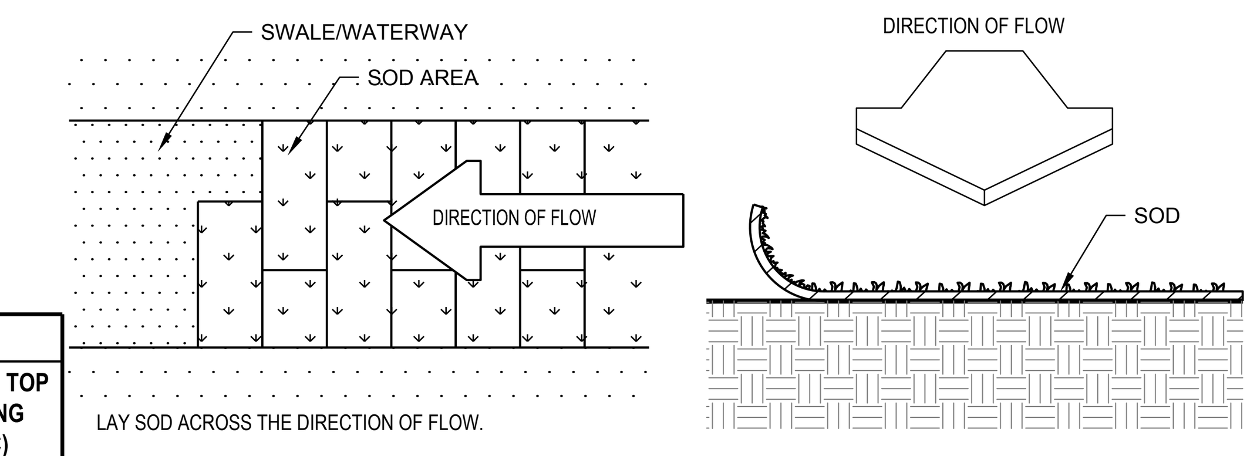
Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

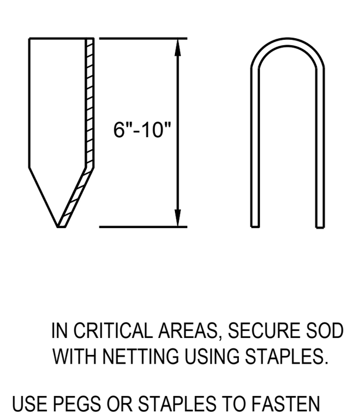
SOD MAINTENANCE AND INSTALLATION
NOT TO SCALE

SOD DIRECTIONS

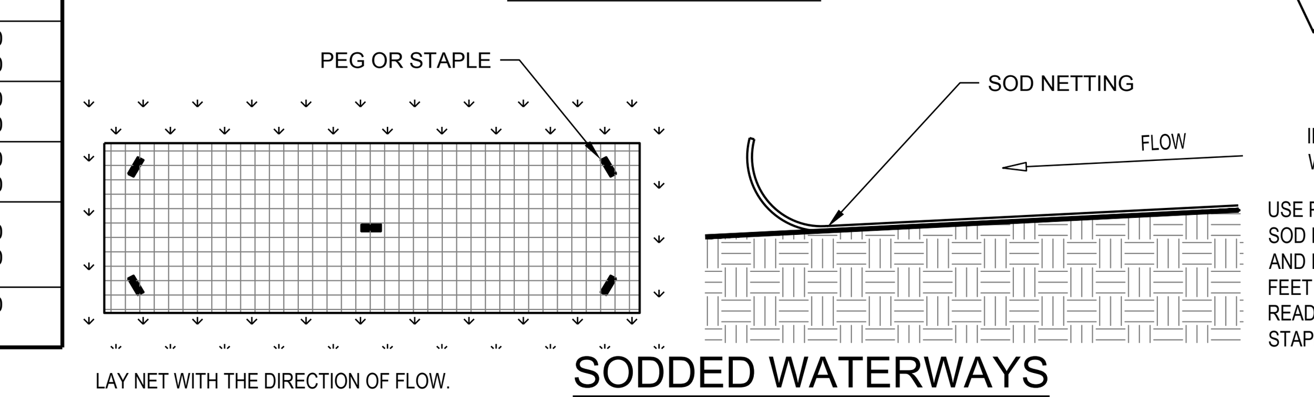


LAY SOD ACROSS THE DIRECTION OF FLOW.

PEG DETAIL



NETTING DIRECTIONS



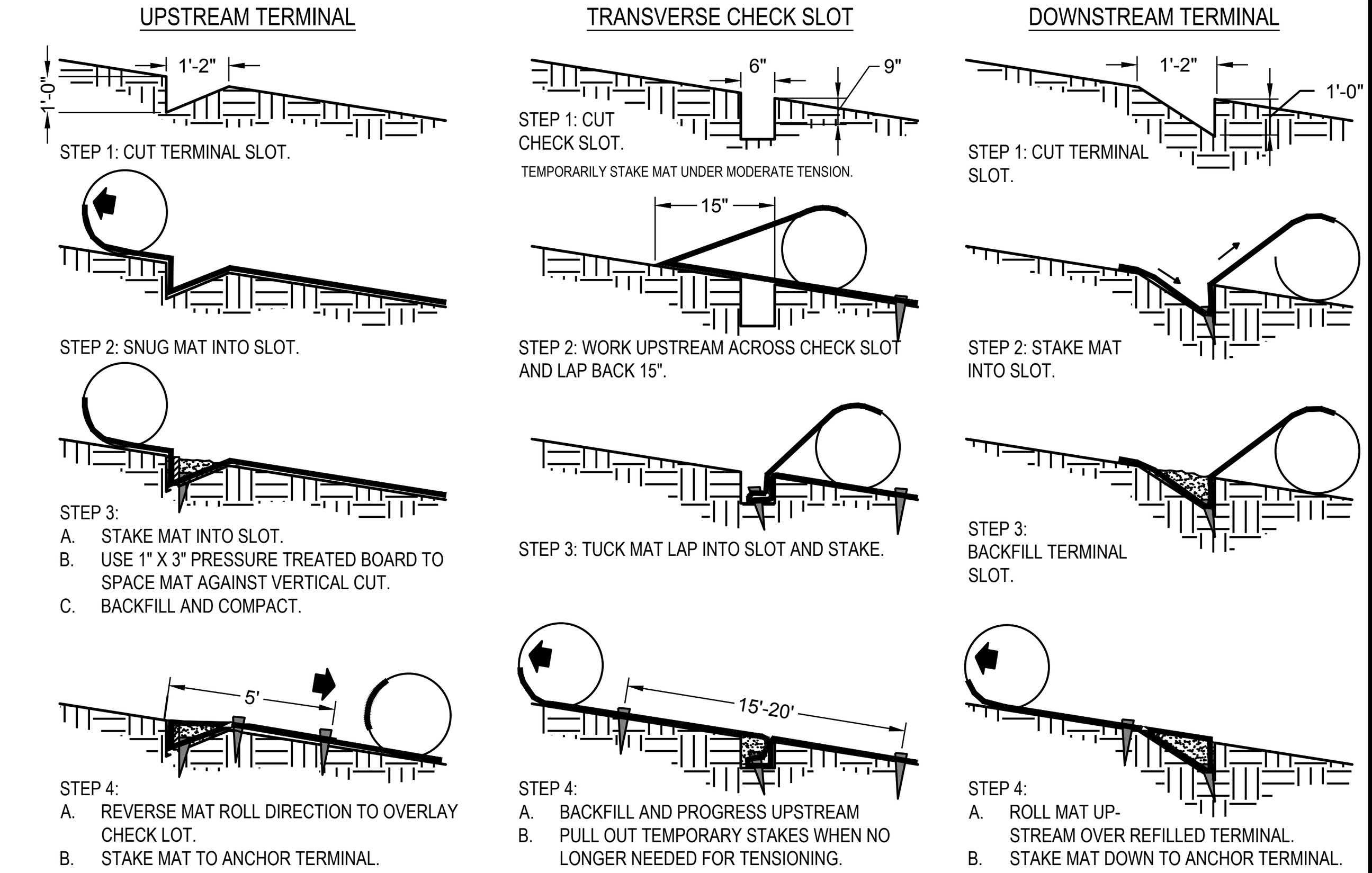
IN CRITICAL AREAS, SECURE SOD WITH NETTING USING STAPLES.

USE PEGS OR STAPLES TO FASTEN SOD FIRMLY -- AT THE ENDS OF STRIPS AND IN THE CENTER, OR EVERY 3-4 FEET IF THE STRIPS ARE LONG. WHEN READY TO MOW, DRIVE PEGS OR STAPLES FLUSH WITH THE GROUND.

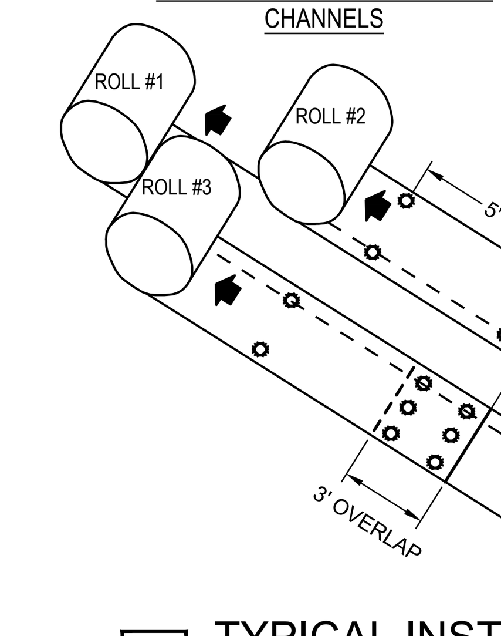
LAY NET WITH THE DIRECTION OF FLOW.

SODDED WATERWAYS
NOT TO SCALE

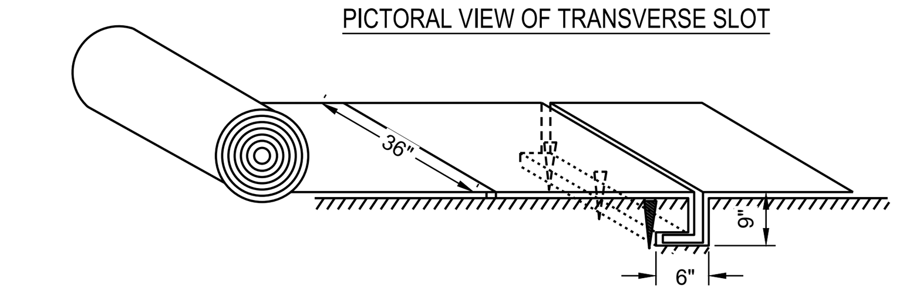
BLANKET AND MATTING CROSS-SECTIONS



SEQUENTIAL ROLL RUN OUT IN CHANNELS



PICTORAL VIEW OF TRANSVERSE SLOT



NOTES:
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
5. USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

Ss TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)
NOT TO SCALE

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DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

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FORESITE group

GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON 3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION
201 RECREATION RD
DAWSONVILLE, GA 30534

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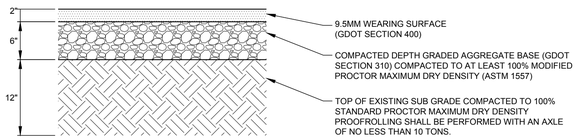
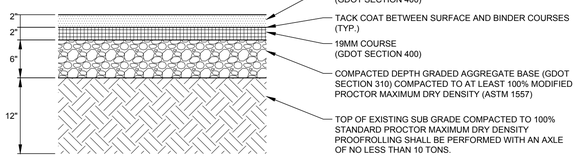
PROJECT NUMBER

EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

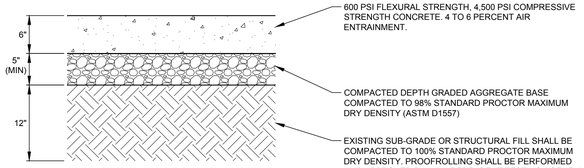
SHEET NUMBER
C-4.8

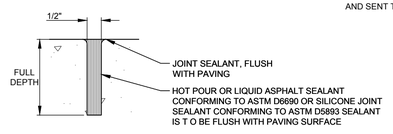


C-5 STANDARD DUTY ASPHALT PAVING
NOT TO SCALE

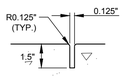


C-5 HEAVY DUTY ASPHALT PAVING
NOT TO SCALE





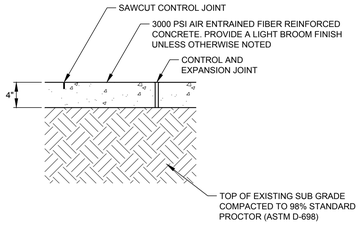
ISOLATION JOINT

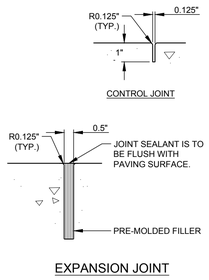


CONTRACTION JOINT

NOTE:
1. DETAIL REFLECTS HEAVY DUTY CONCRETE PAVING RECOMMENDATION BY PROJECT GEOTECHNICAL ENGINEER.
2. A TACK COAT SHALL BE APPLIED BETWEEN THE H/D SECTION AND THE ON-SITE ASPHALT SECTION.
3. **UNLESS OTHERWISE NOTED ON PLANS, CONTRACTION JOINTS TO BE 10'-0" O.C. MAX AND ISOLATION JOINTS TO SEPARATE PAVEMENT FROM CURB, CHANGE OF DIRECTION, OTHER WALK, UTILITY APPURTENANCE, COLD JOINTS OR FACE OF STRUCTURE.** THE JOINTS SHALL EXTEND TO A DEPTH 1/4 OF THE SLAB THICKNESS. IF SAW CUTTING THE JOINTS IS TO BE EMPLOYED, THE JOINTS SHOULD BE CUT WHILE THE CONCRETE IS STILL "GREEN" AND AS SOON AFTER PLACEMENT AS THE EQUIPMENT CAN BE MOVED ONTO THE PAVEMENT WITHOUT DISTURBING THE CONCRETE FINISH.

C-5 HEAVY DUTY CONCRETE PAVING
NOT TO SCALE

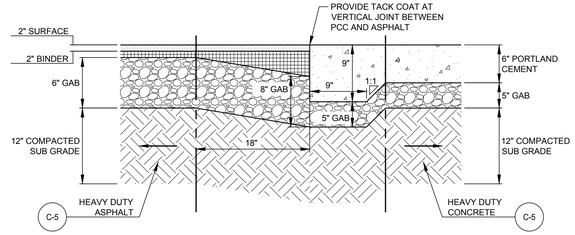




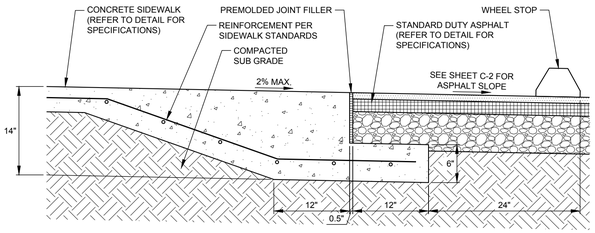
EXPANSION JOINT

NOTE:
1. UNLESS OTHERWISE INDICATED, PREFORMED EXPANSION JOINTS TO BE 40'-0" O.C. MAX. OR AT BACK OF CURB, CHANGE OF DIRECTION, OTHER WALK UTILITY APPURTENANCE, OR FACE OF STRUCTURE.
2. UNLESS OTHERWISE INDICATED, CONTROL JOINTS AT 5'-0' O.C.
3. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.5% (1:67).

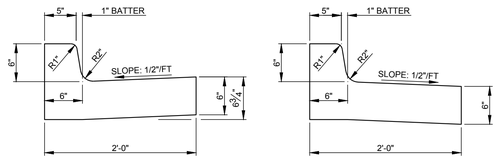
C-5 CONCRETE SIDEWALK
NOT TO SCALE



C-5 HEAVY DUTY ASPHALT / CONCRETE TRANSITION
NOT TO SCALE

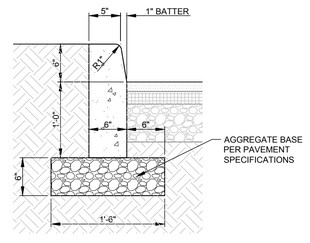


C-5 CONCRETE SIDEWALK / ASPHALT TRANSITION
NOT TO SCALE



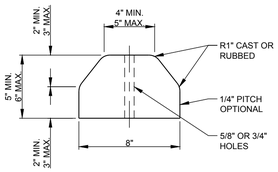
NOTE:
1. 1/2" PRE FORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND RADIUS POINTS.
2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'
3. MAXIMUM DISTANCE DUMMY JOINTS = 10.0'
4. CONCRETE STRENGTH = 3000 P.S.I., SLOPE = 2" MAX. FINISH SHALL BE SMOOTHED AND EVENED WITH WOODEN FLOAT.

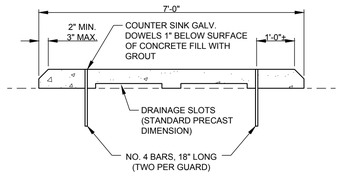
C-5 24" CONCRETE CURB AND GUTTER
NOT TO SCALE

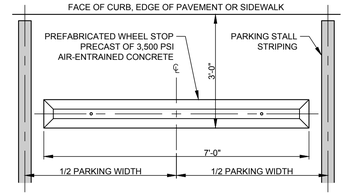


NOTE:
1. 1/2" PRE FORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND RADIUS POINTS.
2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'
3. MAXIMUM DISTANCE DUMMY JOINTS = 10.0'
4. CONCRETE STRENGTH = 3000 P.S.I., FINISH SHALL BE SMOOTHED AND EVENED WITH WOODEN FLOAT.

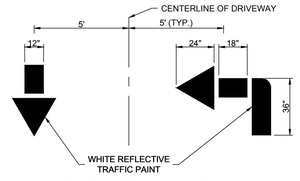
C-5 CONCRETE HEADER CURB
NOT TO SCALE





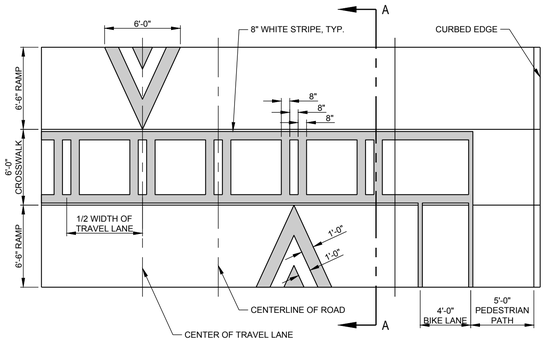


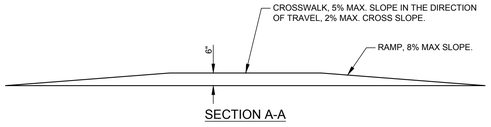
C-5 CONCRETE WHEEL STOP
NOT TO SCALE



CONTACT THE CONSTRUCTION PROJECT MANAGER FOR MORE INFORMATION

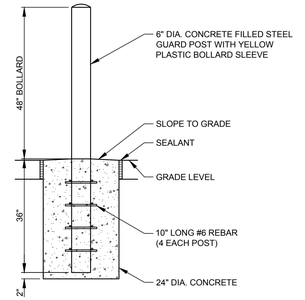
C-5 DRIVEWAY TRAFFIC FLOW DIRECTIONAL ARROW
NOT TO SCALE



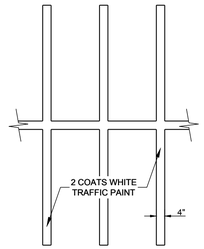


SECTION A-A

C-5 RAISED SPEED TABLE
NOT TO SCALE

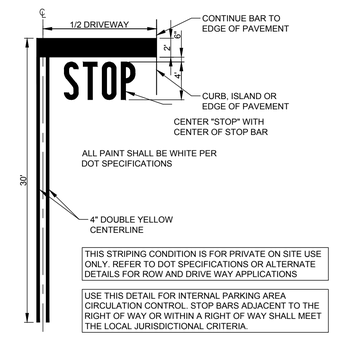


C-5 BOLLARD - 6"
NOT TO SCALE



NOTE: SEE SITE DEVELOPMENT PLAN FOR PARKING DIMENSIONS & LAYOUT

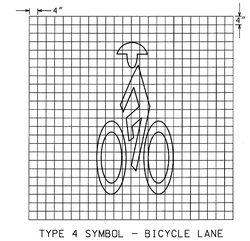
C-5 PAVEMENT STRIPING
NOT TO SCALE



THIS STRIPING CONDITION IS FOR PRIVATE ON SITE USE ONLY. REFER TO DOT SPECIFICATIONS OR ALTERNATE DETAILS FOR ROW AND DRIVE WAY APPLICATIONS

USE THIS DETAIL FOR INTERNAL PARKING AREA CIRCULATION CONTROL. STOP BARS ADJACENT TO THE RIGHT OF WAY OR WITHIN A RIGHT OF WAY SHALL MEET THE LOCAL JURISDICTIONAL CRITERIA.

C-5 STOP BAR AND LABEL STRIPING
NOT TO SCALE



TYPE 4 SYMBOL – BICYCLE LANE

GENERAL NOTES:

1. BICYCLE LANE SYMBOLS SHALL BE PLACED ON THE FAR SIDE OF EACH INTERSECTION 6 FEET BEYOND THE CROSS WALK OR END OF INTERSECTING ROAD RADII. ADDITIONAL SYMBOLS MAY BE PLACED ON LONG, UNINTERRUPTED SECTIONS OF ROADWAY BASED ON ENGINEERING JUDGEMENT.
2. ALL BICYCLE LANE PAVEMENT MARKING, INCLUDING EDGE LINE, SHALL BE PAINT.
3. FOR ADDITIONAL INFORMATION REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, CURRENT EDITION.

C-5 BIKE LANE STRIPING
NOT TO SCALE

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3/08/19

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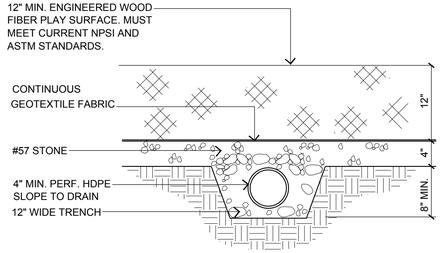
CONSTRUCTION DETAILS

SHEET NUMBER

C-5

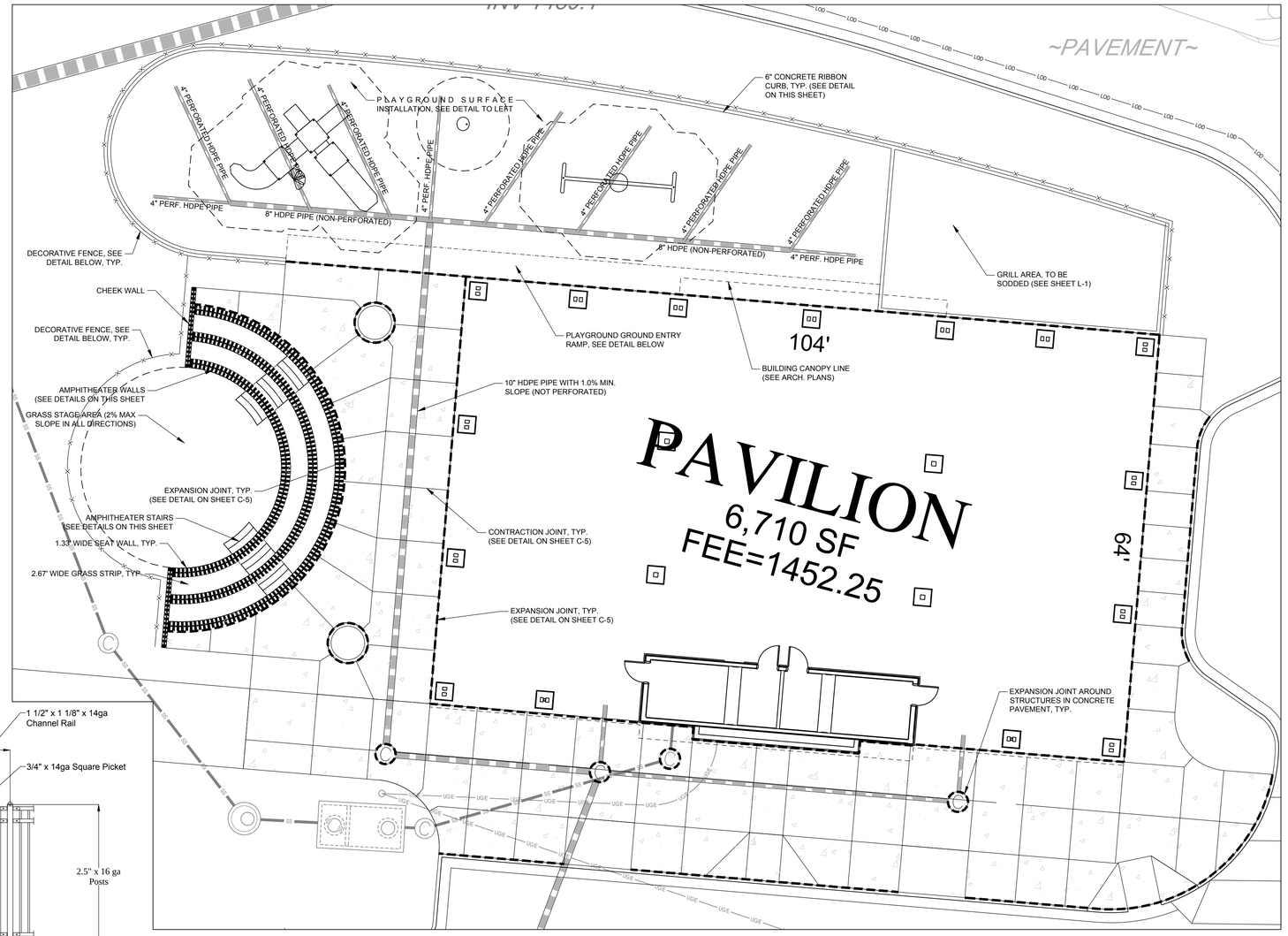


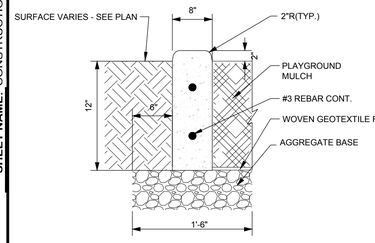
NOTE: PERFORATED PIPE TO CONNECT TO 10" (MIN.) NON-PERFORATED OUTLET PIPE. ALL PIPE HIGH DENSITY POLYETHYLENE

PLAYGROUND RESURFACING MATERIAL SPECIFICATIONS

1. PRODUCT MUST BE MANUFACTURED, CRUSHED VIRGIN WOOD FIBERS COMPRISED OF HARDWOODS CONSISTING OF RANDOMLY SIZED WOOD FIBERS THAT DO NOT EXCEED 1.5" IN LENGTH, .5" IN WIDTH AND .33" IN DEPTH, AND CONTAINING 10% TO 20% FINES TO AID IN COMPACTION. STANDARD WOOD CHIPS OR BARK MULCH WILL NOT BE ACCEPTABLE.
2. PRODUCT MUST BE PROVEN NON-TOXIC, FREE OF BARK, TWIGS, LEAF DEBRIS, AND ORGANIC MATERIALS, AND MUST BE ABLE TO CERTIFY THAT IT IS NON-FLAMMABLE. TEST DATA MUST BE AVAILABLE UPON REQUEST.
3. PRODUCT MUST NOT CONTAIN ANY RECYCLED WOOD PRODUCTS OR WASTE WOOD, SUCH AS PALLETS, ANY WOOD CONTAINING PAINT, CHEMICALS, OR ADDITIVES. BIDDER MUST PROVIDE TOXICITY TEST DATA.
4. WOOD FIBERS SHALL BE ADA-COMPLIANT, AND SHALL MEET ACCESSIBILITY STANDARDS WHEN TESTED IN ACCORDANCE WITH ASTM PS83-97. WHEN COMPACTED, THE FIBERS SHOULD KNIT TOGETHER TO FORM A FIRM, STABLE, SLIP RESISTANT SURFACE THAT WILL ALLOW ACCESS FOR PERSONS USING WHEELCHAIRS, CRUTCHES, OR WALKERS. TEST DATA MUST BE PRESENTED WITH BID.
5. MANUFACTURER MUST BE IN COMPLIANCE AND PROVIDE TESTING DATA FOR THE FOLLOWING STANDARDS AS SET FORTH BY THE AMERICAN STANDARD FOR TESTING MATERIALS (ASTM) FOR SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT.
   - ASTM F1951-99 (PREVIOUSLY ASTM PS 83-97) DETERMINATION OF ACCESSIBILITY OF SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT
   - ASTM F1292-96 IMPACT ATTENUATION OF SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT.
   - ASTM C136-96A, SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES.
6. SAMPLES MUST BE PROVIDED WITH BID. ONE-QUART SAMPLE SIZE IS TO BE SENT AT NO COST TO THE COUNTY.

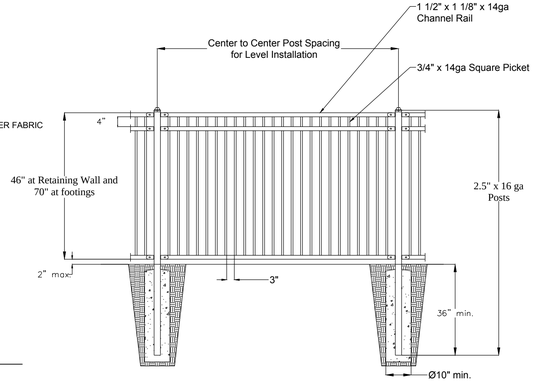
C-5.1 PLAYGROUND SURFACE INSTALLATION
NOT TO SCALE



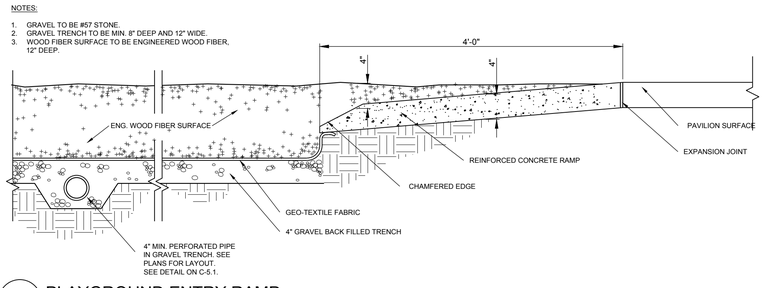


NOTE:
1. 1/2 " PRE FORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND RADIUS POINTS.
2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40'
3. MAXIMUM DISTANCE DUMMY JOINTS = 40'
4. CONCRETE STRENGTH = 3000 P.S.I., SLOPE = 2" MAX. FINISH SHALL BE SMOOTHED AND EVENED WITH WOODEN FLOAT.

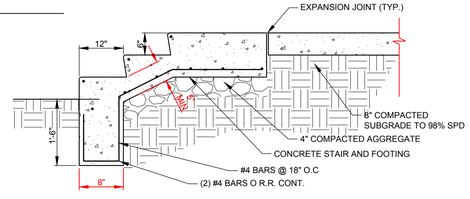
C-5.1 6" CONCRETE RIBBON CURB
NOT TO SCALE



C-5.1 DECORATIVE FENCE
NOT TO SCALE

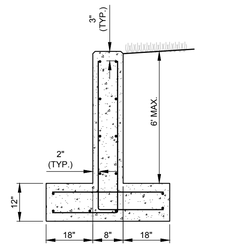


C-5.1 PLAYGROUND ENTRY RAMP
NOT TO SCALE



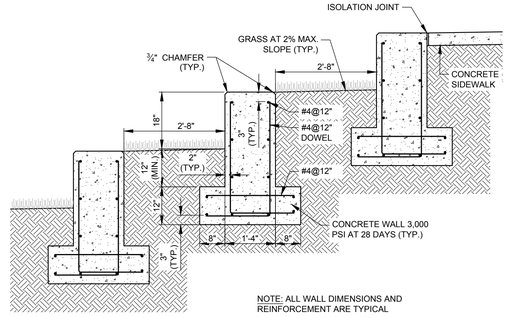
NOTES:
1.) CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR COMPLETE HANDRAIL CONSTRUCTION AND INSTALLATION
2.) ALL HANDRAILS ARE 36" TO TOP OF RAIL.
3.) ALL RAILS TO COMPLY WITH CURRENT ADA REQUIREMENTS
4.) GRIND ALL WELDS SMOOTH, WITH NO BARBS.
6.) O.C. MAX. SPACING FOR UNIFORM APPEARANCE
7.) TOP OF GROUT FOR POSTS TO BE ABOVE PAVEMENT LEVEL AND SLOPED TO SHED WATER AWAY FROM POST.
9.) SEE SHEET C-2, FOR ADDITIONAL INFORMATION.

C-5.1 AMPHITHEATER STAIRS
NOT TO SCALE



C-5.1 CHEEK WALL
NOT TO SCALE

1"=10'
10' 5' 0 10' 20'
SCALE IN FEET



NOTE: ALL WALL DIMENSIONS AND REINFORCEMENT ARE TYPICAL

C-5.1 AMPHITHEATER WALL
NOT TO SCALE

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

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ARCHITECT OF RECORD
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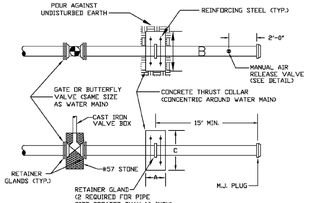
SHEET NUMBER

C-5.1



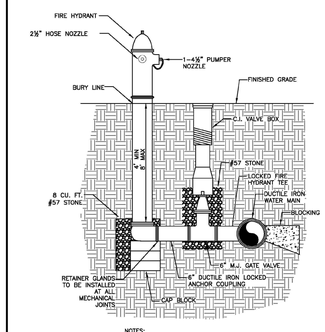
MAIN DIAMETER	CONC. COLLAR DIM. A	B	C	STEEL REINFORCING
24"	1'-8"	8'-10"	8'-10"	#10 @ 12" O.C. E.W.E.F.
20"	1'-6"	7'-8"	7'-8"	#9 @ 12" O.C. E.W.E.F.
16"	1'-3"	6'-6"	6'-6"	#8 @ 12" O.C. E.W.E.F.
12"	1'-2"	5'-3"	5'-3"	#7 @ 12" O.C. E.W.E.F.
6" OR 8"	1'-0"	4'-0"	4'-0"	#6 @ 12" O.C. E.W.E.F.

TEST PRESSURE: 250 PSI
SOIL BEARING PRESSURE: 3000 PSF

WATER MAIN TERMINATION

NOTE:
FOR USE WHERE FUTURE WATER MAIN EXTENSION IS REQUIRED.

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 717 | DATE: DEC 16 | SCALE: NONE



NOTES:
1. 4½" PUMPER NOZZLE TO FACE STREET
2. VALVE BOX TO BE ADJUSTED TO GRADE
3. CONCRETE COLLAR AROUND VALVE BOX IF NOT IN PAVED AREA
4. GRAVEL TO BE PLACED AROUND HYDRANT DRAIN AND VALVE. MINIMUM DIMENSIONS 24" x 24" x 24"
5. HYDRANT VALVE OPENING SHALL BE 5¼".

TYPICAL FIRE HYDRANT ASSEMBLY

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 702 | DATE: DEC 16 | SCALE: NONE

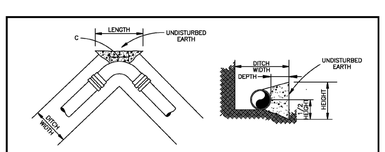


TABLE FOR CONCRETE BLOCKING
(250 PSI TEST PRESSURE)

MINIMUM DIMENSIONS OF BLOCKING

FITTING	SIZE	DEPTH (FT.)	LENGTH (FT.)	"C" (IN.)	HEIGHT (FT.)	VOLUME (C.Y.)	THRUST (LB.)
11 1/4° BEND	6"	1.0	2.0	6	1.0	0.04	1,385
11 1/4° BEND	8"	1.0	2.0	7	1.0	0.05	2,465
11 1/4° BEND	10"	1.0	2.0	9	1.0	0.07	3,850
11 1/4° BEND	12"	1.0	2.5	11	1.5	0.12	5,550
11 1/4° BEND	16"	2.0	2.5	12	2.1	0.28	9,860
11 1/4° BEND	20"	2.0	3.5	15	2.5	0.48	15,406
11 1/4° BEND	24"	2.0	4.0	18	3.0	0.70	22,185
22 1/2° BEND	6"	1.0	2.0	6	1.0	0.04	2,760
22 1/2° BEND	8"	1.0	2.0	7	1.5	0.06	4,905
22 1/2° BEND	10"	1.0	2.0	9	2.0	0.10	7,665
22 1/2° BEND	12"	2.0	3.0	11	2.0	0.16	11,040
22 1/2° BEND	16"	2.0	3.5	12	3.0	0.45	19,625
22 1/2° BEND	20"	2.0	4.0	15	4.0	0.74	30,665
22 1/2° BEND	24"	3.0	5.0	18	4.5	1.47	44,160
45° BEND	6"	1.0	2.0	6	1.5	0.06	5,415
45° BEND	8"	1.0	2.5	7	2.0	0.10	9,625
45° BEND	10"	2.0	3.5	9	2.5	0.31	15,040
45° BEND	12"	2.0	3.5	11	3.0	0.41	21,655
45° BEND	16"	3.0	5.0	12	4.0	1.45	38,495
45° BEND	20"	4.0	6.0	15	5.0	2.05	60,145
45° BEND	24"	4.0	7.5	18	6.5	3.35	91,610
90° BEND	6"	1.0	2.5	12	2.0	0.13	10,005
90° BEND	8"	2.0	3.0	14	3.0	0.38	17,785
90° BEND	10"	2.5	4.5	18	3.0	0.74	27,785
90° BEND	12"	3.0	5.0	20	4.0	1.24	40,000
90° BEND	16"	4.0	6.5	26	5.5	2.91	71,125
90° BEND	20"	4.0	8.0	32	7.0	4.68	111,135
90° BEND	24"	5.0	10.0	40	8.0	8.50	160,035

NOTES:
1. SOIL BEARING STRENGTH OF 2000 PSF IS ASSUMED IN THE CALCULATIONS ABOVE. ENGINEER SHALL VERIFY.
2. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
3. ALLOW CONCRETE TO SET UP A MINIMUM OF 4 HOURS BEFORE PLACING BACKFILL.
4. CONCRETE SHALL BE 3000 PSI, CLASS A.
5. ALL IRON FITTINGS IN DIP MAINS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.
6. VERTICAL BENDS WITH AN UPWARD THRUST SHALL BE RESTRAINED AS SHOWN IN STANDARD 713.
7. VERTICAL BENDS WITH A DOWNWARD THRUST SHALL BE RESTRAINED AS SHOWN IN STANDARD 714.

CONCRETE BLOCKING FOR BENDS

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 708 | DATE: DEC 16 | SCALE: NONE

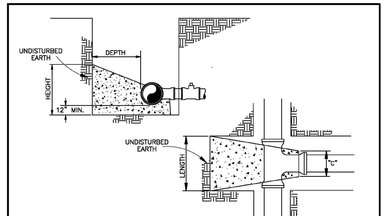


TABLE FOR CONCRETE BLOCKING
(250 PSI TEST PRESSURE)

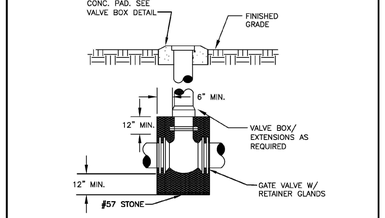
MINIMUM DIMENSIONS OF BLOCKING

SIZE	DEPTH (FT.)	LENGTH (FT.)	"C" (IN.)	HEIGHT (FT.)	VOLUME (C.Y.)	THRUST (LB.)
6"	1.0	2.5	12	1.5	0.10	7,070
8"	1.7	3.25	14	2.0	0.27	12,565
10"	2.0	4.0	18	2.5	0.50	19,635
12"	2.5	4.5	20	3.25	0.91	28,275
16"	3.0	5.0	26	5.0	1.77	50,265
20"	4.0	7.0	32	5.75	3.68	78,540
24"	6.0	9.0	40	6.5	7.94	113,100

NOTES:
1. SOIL BEARING STRENGTH OF 2000 PSF IS ASSUMED IN THE CALCULATIONS ABOVE. ENGINEER SHALL VERIFY.
2. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
3. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.
4. CONCRETE SHALL BE 3000 PSI, CLASS A.
5. ALL IRON FITTINGS IN DIP MAINS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.

CONCRETE BLOCKING FOR TEES AND PLUGS

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 709 | DATE: DEC 16 | SCALE: NONE



SUPPORT/RESTRAINT FOR GATE VALVES

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 710 | DATE: DEC 16 | SCALE: NONE

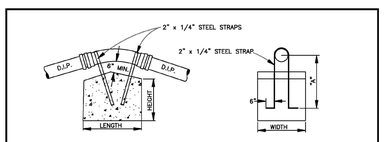


TABLE FOR CONCRETE BLOCKING
(250 PSI TEST PRESSURE)

MINIMUM DIMENSIONS OF BLOCKING

FITTING	SIZE	HEIGHT (FT.)	LENGTH (FT.)	WIDTH (FT.)	VOLUME (C.Y.)	"A" (IN.)	LENGTH OF STRAP (IN.)
11 1/4° BEND	6"	2.0	2.0	2.5	0.37	24	69.5
11 1/4° BEND	8"	2.0	2.2	2.5	0.81	24	72.5
11 1/4° BEND	10"	3.0	3.0	3.0	1.00	26	80.0
11 1/4° BEND	12"	3.0	4.0	3.0	1.33	30	91.0
11 1/4° BEND	16"	3.0	5.0	4.5	2.50	30	97.0
11 1/4° BEND	20"	3.3	6.0	5.0	3.67	36	115.0
11 1/4° BEND	24"	4.0	6.5	5.5	5.30	36	122.0
22 1/2° BEND	6"	2.5	3.0	2.5	0.69	24	69.5
22 1/2° BEND	8"	3.1	3.5	3.0	1.21	24	72.5
22 1/2° BEND	10"	3.2	4.0	4.0	1.90	28	80.0
22 1/2° BEND	12"	3.5	5.0	4.5	2.92	30	91.0
22 1/2° BEND	16"	4.7	5.5	5.0	4.79	36	109.0
22 1/2° BEND	20"	6.0	5.7	6.5	7.60	45	133.0
22 1/2° BEND	24"	8.0	5.7	6.5	10.98	60	170.0

NOTES:
1. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
2. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.
3. CONCRETE SHALL BE 3000 PSI, CLASS A.
4. ALL IRON FITTINGS IN DIP MAINS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.

CONCRETE BLOCKING–VERTICAL BENDS–UPWARD THRUST

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 711 | DATE: DEC 16 | SCALE: NONE

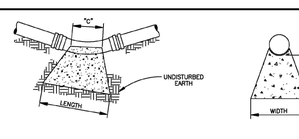


TABLE FOR CONCRETE BLOCKING
(250 PSI TEST PRESSURE)

MINIMUM DIMENSIONS OF BLOCKING

FITTING	SIZE	DEPTH (FT.)	LENGTH (FT.)	"C" (IN.)	WIDTH (FT.)	VOLUME (C.Y.)	THRUST (LB.)
11 1/4° BEND	6"	1.0	2.0	6	1.0	0.04	1,385
11 1/4° BEND	8"	1.0	2.0	7	1.0	0.05	2,465
11 1/4° BEND	10"	1.0	2.0	9	1.0	0.07	3,850
11 1/4° BEND	12"	1.0	2.5	11	1.5	0.12	5,550
11 1/4° BEND	16"	2.0	2.5	12	2.1	0.28	9,860
11 1/4° BEND	20"	2.0	3.5	15	2.5	0.48	15,406
11 1/4° BEND	24"	2.0	4.0	18	3.0	0.70	22,185
22 1/2° BEND	6"	1.0	2.0	6	1.0	0.04	2,760
22 1/2° BEND	8"	1.0	2.0	7	1.5	0.06	4,905
22 1/2° BEND	10"	1.0	2.0	9	2.0	0.10	7,665
22 1/2° BEND	12"	2.0	3.0	11	2.0	0.16	11,040
22 1/2° BEND	16"	2.0	3.5	12	3.0	0.45	19,625
22 1/2° BEND	20"	2.0	4.0	15	4.0	0.74	30,665
22 1/2° BEND	24"	3.0	5.0	18	4.5	1.47	44,160
45° BEND	6"	1.0	2.0	6	1.5	0.06	5,415
45° BEND	8"	1.0	2.5	7	2.0	0.10	9,625
45° BEND	10"	2.0	3.5	9	2.5	0.31	15,040
45° BEND	12"	2.0	3.5	11	3.0	0.41	21,655
45° BEND	16"	3.0	5.0	12	4.0	1.45	38,495
45° BEND	20"	4.0	6.0	15	5.0	2.05	60,145
45° BEND	24"	4.0	7.5	18	6.5	3.35	91,610
90° BEND	6"	1.0	2.5	12	2.0	0.13	10,005
90° BEND	8"	2.0	3.0	14	3.0	0.38	17,785
90° BEND	10"	2.5	4.5	18	3.0	0.74	27,785
90° BEND	12"	3.0	5.0	20	4.0	1.24	40,000
90° BEND	16"	4.0	6.5	26	5.5	2.91	71,125
90° BEND	20"	4.0	8.0	32	7.0	4.68	111,135
90° BEND	24"	5.0	10.0	40	8.0	8.50	160,035

NOTES:
1. SOIL BEARING STRENGTH OF 2000 PSF IS ASSUMED IN THE CALCULATIONS ABOVE. ENGINEER SHALL VERIFY.
2. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
3. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.
4. CONCRETE SHALL BE 3000 PSI, CLASS A.
5. ALL IRON FITTINGS IN DIP MAINS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.

CONCRETE BLOCKING–VERTICAL BENDS–DOWNWARD THRUST

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 712 | DATE: DEC 16 | SCALE: NONE

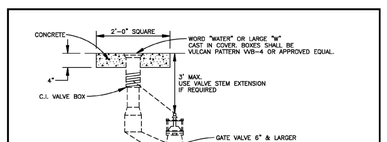
PROFILE VIEW

PIPE DIA.	L	W
6"	4'-6"	1'-1"
8"	4'-6"	1'-1"
10"	4'-6"	1'-1"
12"	4'-6"	1'-1"
16"	4'-6"	2'-0"

NOTE:
CONCRETE COLLAR WIDTH EQUALS THE WIDTH OF THE TRENCH PLUS FOUR FEET (TWO FEET ON EACH SIDE OF THE TRENCH).

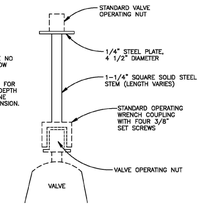
CONCRETE THRUST COLLAR

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 713 | DATE: DEC 16 | SCALE: NONE



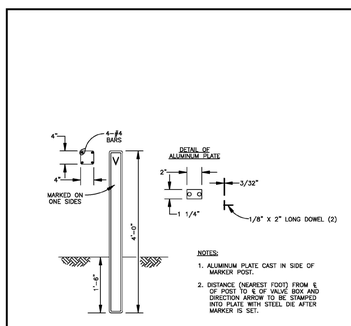
TYPICAL VALVE INSTALLATION

NOTES:
1. TOP OF EXTENSION SHALL BE NO MORE THAN FOUR FEET BELOW FINAL GRADE.
2. CONTRACTOR IS RESPONSIBLE FOR IN FIELD MEASUREMENT OF DEPTH OF COVER TO DETERMINE NEED FOR VALVE STEM EXTENSION.



VALVE STEM EXTENSION DETAIL

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 714 | DATE: DEC 16 | SCALE: NONE



NOTES:
1. ALUMINUM PLATE CAST IN SIDE OF MARKER POST.
2. DISTANCE (NEAREST FOOT) FROM ℄ OF POST TO ℄ OF VALVE BOX AND DIRECTION ARROW TO BE STAMPED INTO PLATE WITH STEEL DIE AFTER MARKER IS SET.

DETAIL OF CONCRETE VALVE MARKER

ETOWAH WATER & SEWER AUTHORITY | STANDARD NO. 715 | DATE: DEC 16 | SCALE: NONE

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\DWG\C-6 Utility Details.dwg
SHEET NAME:

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

A NELSON Company

ARCHITECT OF RECORD
NELSON
Nelco Architecture, Inc.
a licensed affiliate of Nelson Worldwide, LLC.

FORESITE group

GEORGIA REGISTERED
No. PE 035923
PROFESSIONAL ENGINEER
JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION
201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

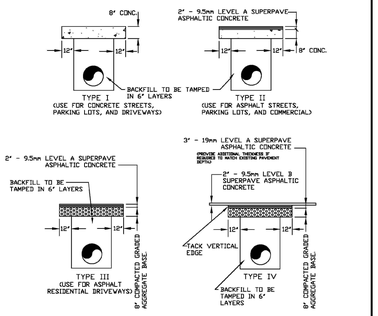
PROJECT NUMBER

SHEET TITLE

UTILITY DETAILS

SHEET NUMBER

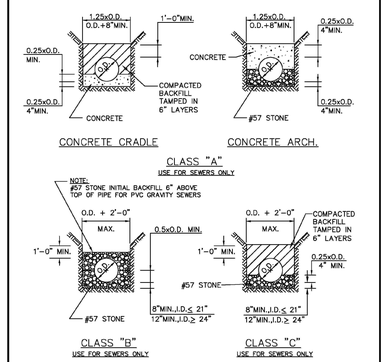
C-6



NOTES:
1. USE 8" COMPACTED GRADED AGGREGATE BASE FOR REPLACEMENT AT GRAVEL DRIVES.
2. 2"-9.5mm LEVEL B SUPERPAVE RESURFACING IS A SEPARATE PAY ITEM FROM TYPE IV PAVEMENT REPLACEMENT.
3. FOR ASPHALT COUNTY ROADS, ALL TYPE I PATCHES SHALL BE DYED BLACK TO MATCH EXISTING SURFACE, UNLESS OTHERWISE DIRECTED BY THE AUTHORITY.

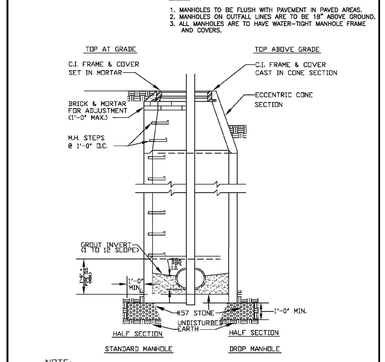
PAVEMENT REPLACEMENT DETAILS

Etowah Water & Sewer Authority "Excellence in every drop"	ETOWAH WATER & SEWER AUTHORITY	STANDARD NO. 716 DATE: DEC 17 SCALE: NONE



PIPE BEDDING AND HAUNCHING DETAILS

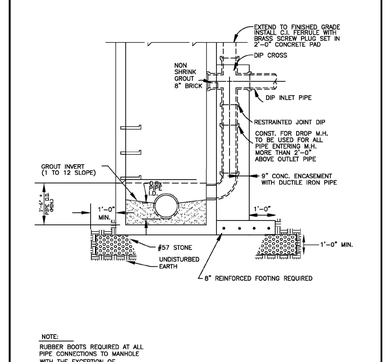
Etowah Water & Sewer Authority "Excellence in every drop"	ETOWAH WATER & SEWER AUTHORITY	STANDARD NO. 718 DATE: DEC 16 SCALE: NONE



NOTE:
RUBBER BOOTS REQUIRED AT ALL PIPE CONNECTIONS TO MANHOLE WITH THE EXCEPTION OF DROP CONNECTIONS.

PRECAST CONCRETE MANHOLE

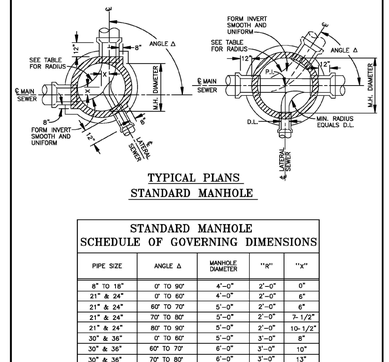
Etowah Water & Sewer Authority "Excellence in every drop"	ETOWAH WATER & SEWER AUTHORITY	STANDARD NO. 723 DATE: DEC 16 SCALE: NONE



NOTE:
RUBBER BOOTS REQUIRED AT ALL PIPE CONNECTIONS TO MANHOLE WITH THE EXCEPTION OF DROP CONNECTIONS.

OUTSIDE DROP MANHOLE

Etowah Water & Sewer Authority "Excellence in every drop"	ETOWAH WATER & SEWER AUTHORITY	STANDARD NO. 724 DATE: DEC 16 SCALE: NONE

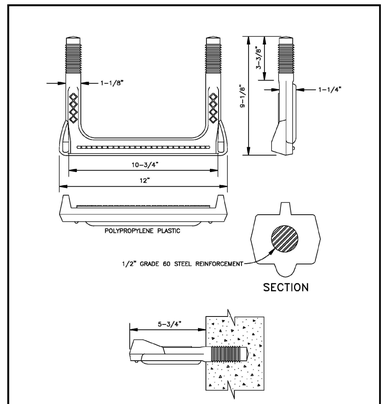


TYPICAL PLANS STANDARD MANHOLE

STANDARD MANHOLE
SCHEDULE OF GOVERNING DIMENSIONS

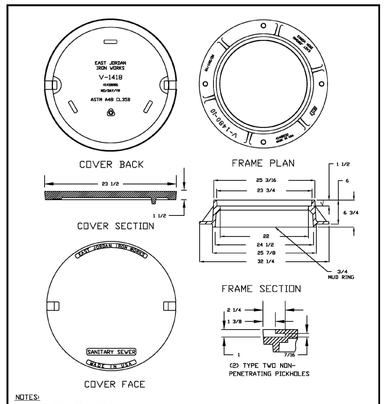
PIPE SIZE	ANGLE Δ	MANHOLE DIAMETER	"R"	"X"
8" TO 18"	0° TO 90°	4'-0"	2'-0"	0"
21" & 24"	0° TO 60°	4'-0"	2'-0"	6"
21" & 24"	60° TO 70°	5'-0"	2'-0"	6"
21" & 24"	70° TO 80°	5'-0"	2'-0"	3-1/2"
21" & 24"	80° TO 90°	5'-0"	2'-0"	10-1/2"
30" & 36"	0° TO 60°	5'-0"	3'-0"	8"
30" & 36"	60° TO 70°	6'-0"	3'-0"	10"
30" & 36"	70° TO 80°	6'-0"	3'-0"	13"
30" & 36"	80° TO 90°	6'-0"	3'-0"	16"
42"	0° TO 35°	6'-0"	3'-0"	3"
42"	35° TO 50°	6'-0"	6'-0"	6"
42"	50° TO 90°	7'-0"	6'-0"	0"
48" & 54"	0° TO 35°	6'-0" & 7'-0"	6'-0"	0"
48" & 54"	35° TO 90°	8'-0"	6'-0"	0"

Etowah Water & Sewer Authority "Excellence in every drop"	ETOWAH WATER & SEWER AUTHORITY	STANDARD NO. 726 DATE: DEC 16 SCALE: NONE



MANHOLE STEP DETAIL

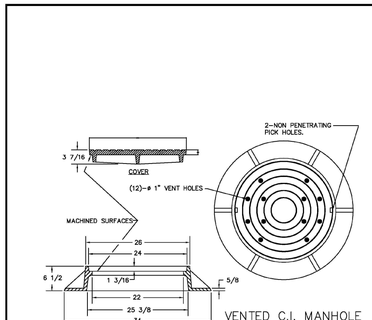
Etowah Water & Sewer Authority "Excellence in every drop"	ETOWAH WATER & SEWER AUTHORITY	STANDARD NO. 727 DATE: DEC 16 SCALE: NONE



NOTES:
1) COVER SHALL BE V-1418 (SHOWN), U.S. FOUNDRY 262, OR APPROVED EQUAL.
2) ALL DIMENSIONS ARE IN INCHES.

WATER-TIGHT MANHOLE FRAME AND COVER

Etowah Water & Sewer Authority "Excellence in every drop"	ETOWAH WATER & SEWER AUTHORITY	STANDARD NO. 728 DATE: DEC 16 SCALE: NONE



NOTES:
1) COVER SHALL BE V-1418 (SHOWN), U.S. FOUNDRY 262, OR APPROVED EQUAL.
2) ALL DIMENSIONS ARE IN INCHES.

Etowah Water & Sewer Authority "Excellence in every drop"	ETOWAH WATER & SEWER AUTHORITY	STANDARD NO. 728-1 DATE: DEC 17 SCALE: NONE

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DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

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FORESITE group

GEORGIA REGISTERED No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION
201 RECREATION RD
DAWSONVILLE, GA 30534

Print Record

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2019-03-08 GRANT REVIEW DOCUMENTS

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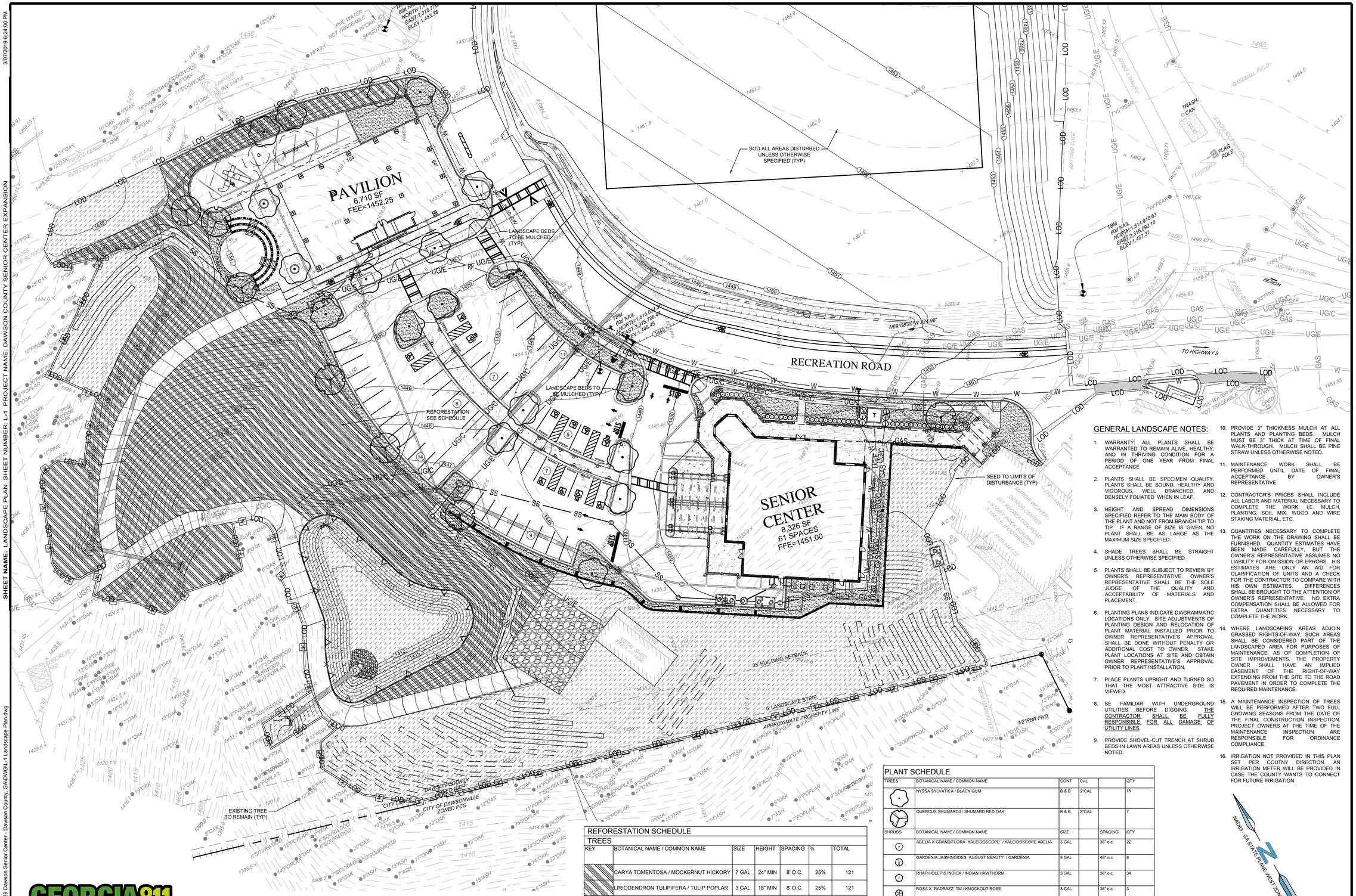
SHEET TITLE
UTILITY DETAILS

SHEET NUMBER
C-6.1



GENERAL LANDSCAPE NOTES:

1. WARRANTY: ALL PLANTS SHALL BE WARRANTED TO REMAIN ALIVE, HEALTHY, AND IN THRIVING CONDITION FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE
2. PLANTS SHALL BE SPECIMEN QUALITY. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF.
3. HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO THE MAIN BODY OF THE PLANT AND NOT FROM BRANCH TIP TO TIP. IF A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED.
4. SHADE TREES SHALL BE STRAIGHT UNLESS OTHERWISE SPECIFIED
5. PLANTS SHALL BE SUBJECT TO REVIEW BY OWNER'S REPRESENTATIVE. OWNER'S REPRESENTATIVE SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF MATERIALS AND PLACEMENT.
6. PLANTING PLANS INDICATE DIAGRAMMATIC LOCATIONS ONLY. SITE ADJUSTMENTS OF PLANTING DESIGN AND RELOCATION OF PLANT MATERIAL INSTALLED PRIOR TO OWNER REPRESENTATIVE'S APPROVAL SHALL BE DONE WITHOUT PENALTY OR ADDITIONAL COST TO OWNER. STAKE PLANT LOCATIONS AT SITE AND OBTAIN OWNER REPRESENTATIVE'S APPROVAL PRIOR TO PLANT INSTALLATION.
7. PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE IS VIEWED.
8. BE FAMILIAR WITH UNDERGROUND UTILITIES BEFORE DIGGING. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGE OF UTILITY LINES.
9. PROVIDE SHOVEL-CUT TRENCH AT SHRUB BEDS IN LAWN AREAS UNLESS OTHERWISE NOTED.
10. PROVIDE 3" THICKNESS MULCH AT ALL PLANTS AND PLANTING BEDS. MULCH MUST BE 3" THICK AT TIME OF FINAL WALK-THROUGH. MULCH SHALL BE PINE STRAW UNLESS OTHERWISE NOTED.
11. MAINTENANCE WORK SHALL BE PERFORMED UNTIL DATE OF FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE.
12. CONTRACTOR'S PRICES SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO COMPLETE THE WORK, I.E. MULCH, PLANTING, SOIL MIX, WOOD AND WIRE STAKING MATERIAL, ETC.
13. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWING SHALL BE FURNISHED. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE OWNER'S REPRESENTATIVE ASSUMES NO LIABILITY FOR OMISSION OR ERRORS. HIS ESTIMATES ARE ONLY AN AID FOR CLARIFICATION OF UNITS AND A CHECK FOR THE CONTRACTOR TO COMPARE WITH HIS OWN ESTIMATES. DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF OWNER'S REPRESENTATIVE. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR EXTRA QUANTITIES NECESSARY TO COMPLETE THE WORK.
14. WHERE LANDSCAPING AREAS ADJOIN GRASSED RIGHTS-OF-WAY, SUCH AREAS SHALL BE CONSIDERED PART OF THE LANDSCAPED AREA FOR PURPOSES OF MAINTENANCE. AS OF COMPLETION OF SITE IMPROVEMENTS, THE PROPERTY OWNER SHALL HAVE AN IMPLIED EASEMENT OF THE RIGHT-OF-WAY EXTENDING FROM THE SITE TO THE ROAD PAVEMENT IN ORDER TO COMPLETE THE REQUIRED MAINTENANCE.
15. A MAINTENANCE INSPECTION OF TREES WILL BE PERFORMED AFTER TWO FULL GROWING SEASONS FROM THE DATE OF THE FINAL CONSTRUCTION INSPECTION. PROJECT OWNERS AT THE TIME OF THE MAINTENANCE INSPECTION ARE RESPONSIBLE FOR ORDINANCE COMPLIANCE.
16. IRRIGATION NOT PROVIDED IN THIS PLAN SET PER COUTNY DIRECTION. AN IRRIGATION METER WILL BE PROVIDED IN CASE THE COUNTY WANTS TO CONNECT FOR FUTURE IRRIGATION.

PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL		QTY
	NYSSA SYLVATICA / BLACK GUM	B & B	2"CAL		18
	QUERCUS SHUMARDII / SHUMARD RED OAK	B & B	2"CAL		7
SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE		SPACING	QTY
	ABELIA X GRANDIFLORA `KALEIDOSCOPE` / KALEIDOSCOPE ABELIA	3 GAL		36" o.c.	22
	GARDENIA JASMINOIDES `AUGUST BEAUTY` / GARDENIA	3 GAL		48" o.c.	6
	RHAPHIOLEPIS INDICA / INDIAN HAWTHORN	3 GAL		36" o.c.	34
	ROSA X `RADRAZZ` TM / KNOCKOUT ROSE	3 GAL		36" o.c.	3
SOD/SEED	BOTANICAL NAME / COMMON NAME	CONT		SPACING	QTY
	CYNODON DACTYLON `TIF 419` / BERMUDA GRASS	SOD			129,714 SF
	SEEDING	SEED			47,155 SF

REFORESTATION SCHEDULE

TREES

KEY	BOTANICAL NAME / COMMON NAME	SIZE	HEIGHT	SPACING	%	TOTAL
	CARYA TOMENTOSA / MOCKERNUT HICKORY	7 GAL.	24" MIN	8' O.C.	25%	121
	LIRIODENDRON TULIPIFERA / TULIP POPLAR	3 GAL.	18" MIN	8' O.C.	25%	121
	NYSSA SYLVATICA / BLACK GUM	7 GAL.	24" MIN	8' O.C.	25%	121
	PINUS TAEDA / LOBLOLLY PINE	5 GAL.	24" MIN	8' O.C.	15%	73
	QUERCUS FALCATA / SOUTHERN RED OAK	1"-CAL	36" MIN	8' O.C.	10%	48

LANDSCAPE REQUIREMENTS:

SEC. 109.25.c.9 - APPLICABILITY AND EXEMPTIONS
ALL GOVERNMENT AGENCIES CONDUCTING OPERATIONS ON PUBLIC RIGHT-OF-WAY AND EASEMENTS FOR THE PURPOSE OF GOVERNMENTAL SERVICES.

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NAD83 GA STATE PLANE WEST ZONE

1" = 30'

30 15 0 30 60

SCALE IN FEET

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

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ARCHITECT OF RECORD

NELSON

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FORESITE

GEORGIA REGISTERED LA001898 LANDSCAPE ARCHITECT JONATHAN MICHAEL BULLARD
2/04/19

ENGINEER
JOY McGOWAN JOHNSON
3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

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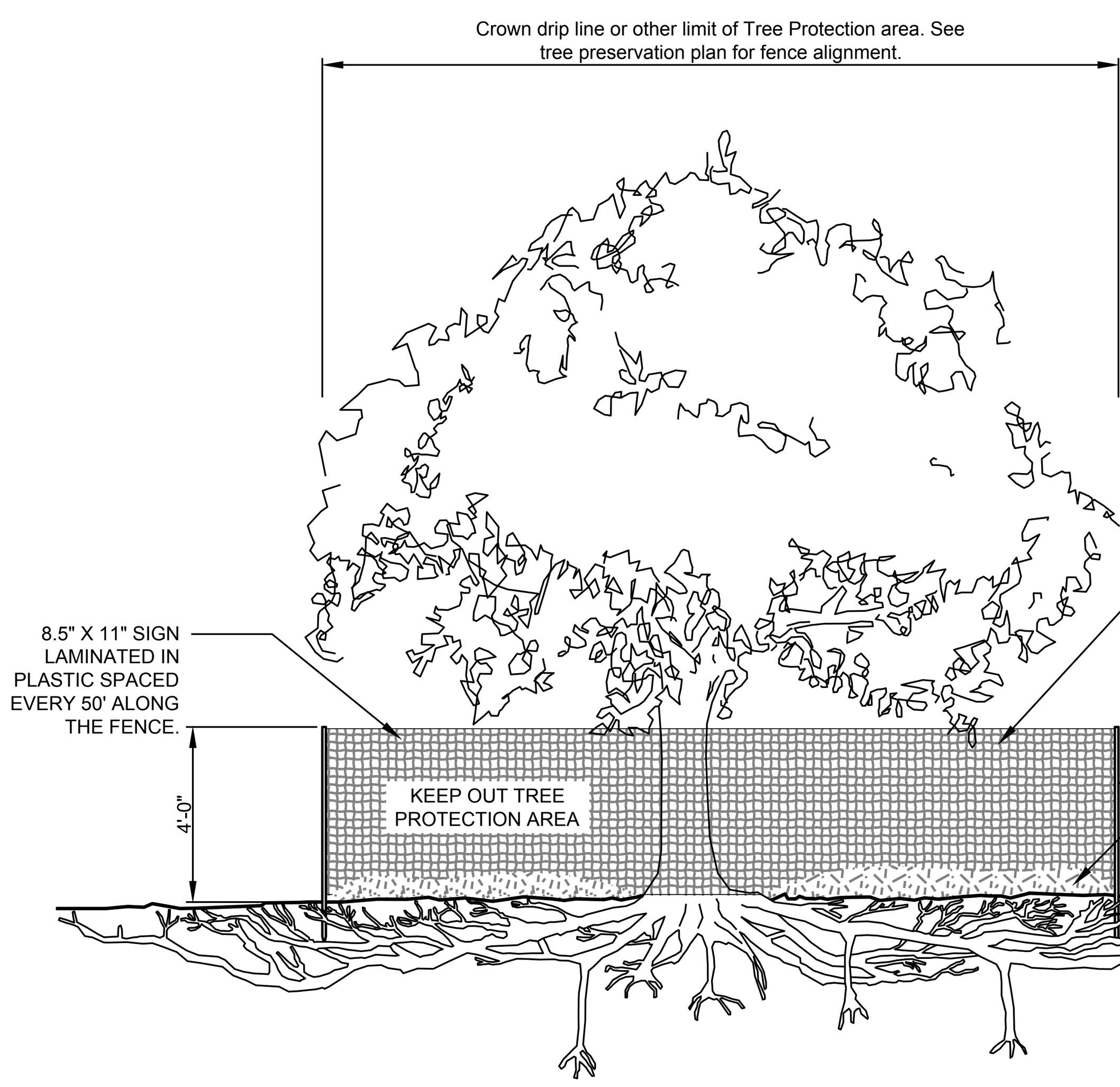
SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L-1

FILENAME: F:\121.029 Dawson Senior Center - Dawson County, GA\DWG\L-1 Landscape Plan.dwg
SHEET NAME: LANDSCAPE PLAN SHEET NUMBER: L-1 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION
3/07/2019 6:24:00 PM


Crown drip line or other limit of Tree Protection area. See tree preservation plan for fence alignment.
8.5" X 11" SIGN LAMINATED IN PLASTIC SPACED EVERY 50' ALONG THE FENCE.
4'-0"
KEEP OUT TREE PROTECTION AREA
TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5" X 1.5" OPENINGS; COLOR-ORANGE. STEEL POSTS INSTALLED AT 8' O.C.
2" X 6' STEEL POSTS OR APPROVED EQUAL.
5" THICK LAYER OF MULCH.
MAINTAIN EXISTING GRADE WITH THE TREE PROTECTION FENCE UNLESS OTHERWISE INDICATED ON THE PLANS.
SECTION VIEW

NOTES:
1- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

2- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.

3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.

4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.

5- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

5 TREE PROTECTION

1/4" = 1'-0"

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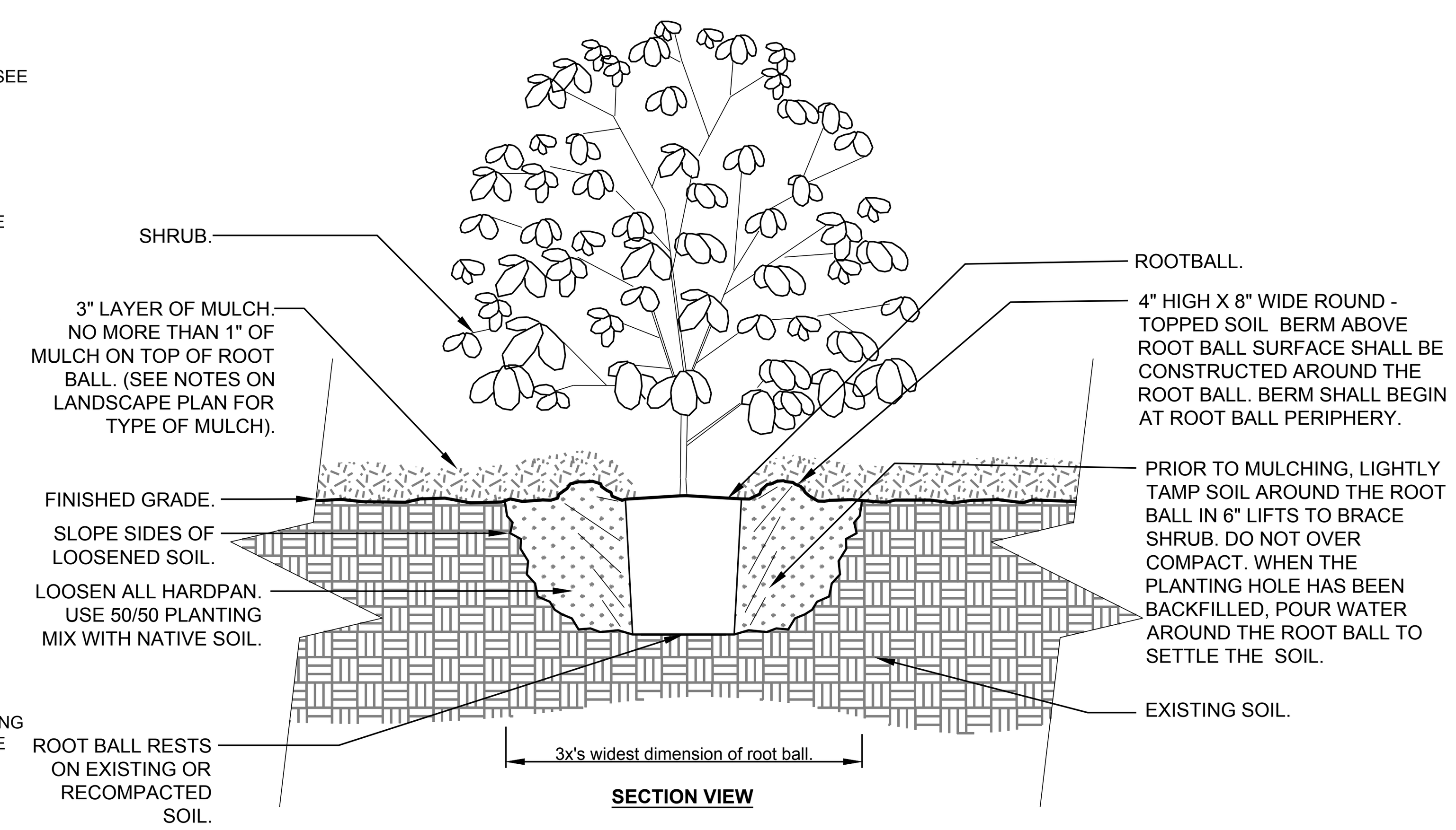
SHRUB.
3" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE NOTES ON LANDSCAPE PLAN FOR TYPE OF MULCH).
FINISHED GRADE.
SLOPE SIDES OF LOOSENED SOIL.
LOOSEN ALL HARDPAN. USE 50/50 PLANTING MIX WITH NATIVE SOIL.
ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL.
ROOTBALL.
4" HIGH X 8" WIDE ROUND - TOPPED SOIL BERM ABOVE ROOT BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY.
PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE SHRUB. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.
EXISTING SOIL.
3x's widest dimension of root ball.
SECTION VIEW

NOTES:
1- SHRUBS SHALL BE OF SPECIMEN QUALITY.

2- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

3 SHRUB PLANTING

3/4" = 1'-0"

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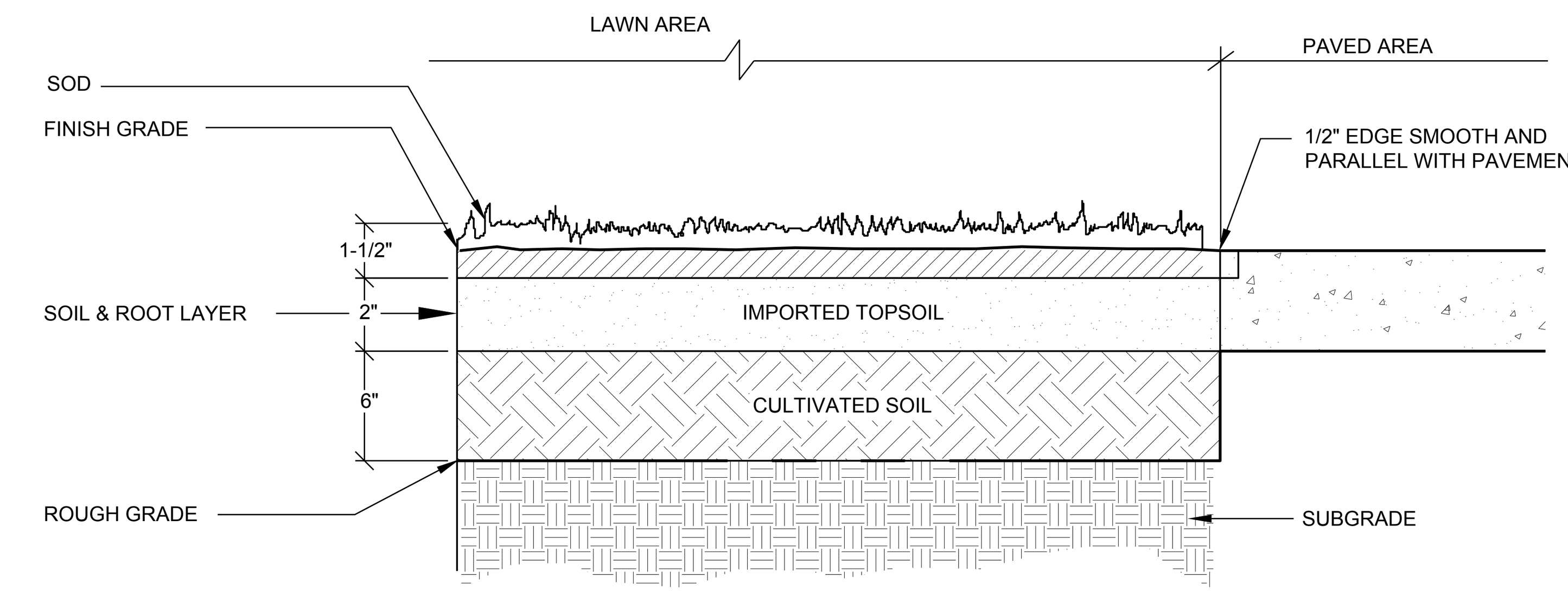

SODDING PROCEDURE:
1. PREPARE FINISH GRADE (AS PER SPECIFICATIONS)
2. APPLY LIME & FERTILIZER & ROTO-TIL (AS PER SOIL TEST)
3. LAY SOD & WATER THOROUGHLY

NOTE: INSTALL SOD SO THAT TOP OF SOIL AND ROOT LAYER IS LEVEL WITH TOP OF PAVEMENT.

1 SOD INSTALLATION

NOT TO SCALE

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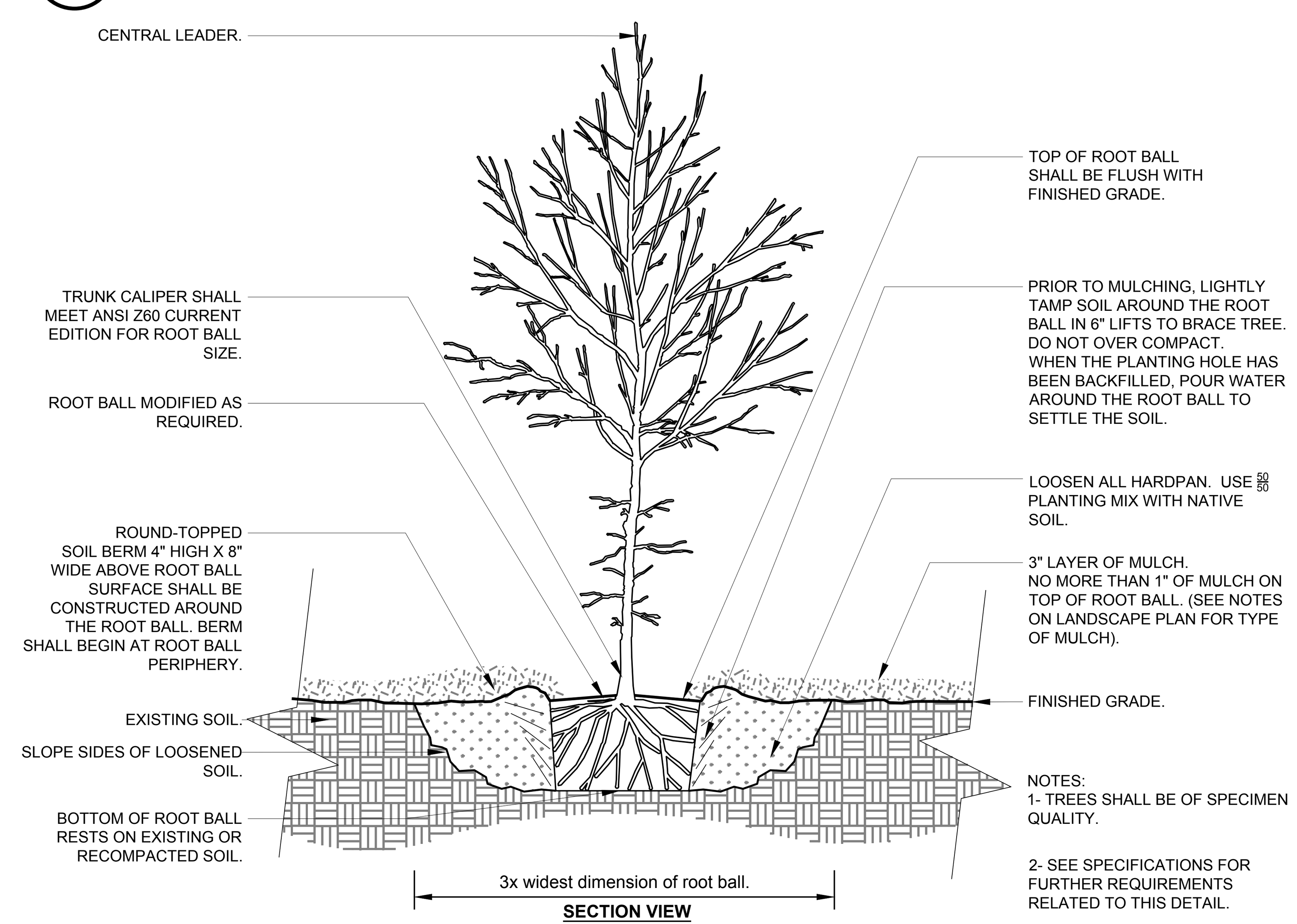
0002-01


CENTRAL LEADER.
TRUNK CALIPER SHALL MEET ANSI Z60 CURRENT EDITION FOR ROOT BALL SIZE.
ROOT BALL MODIFIED AS REQUIRED.
ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE ABOVE ROOT BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY.
EXISTING SOIL.
SLOPE SIDES OF LOOSENED SOIL.
BOTTOM OF ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL.
TOP OF ROOT BALL SHALL BE FLUSH WITH FINISHED GRADE.
PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.
LOOSEN ALL HARDPAN. USE 50/50 PLANTING MIX WITH NATIVE SOIL.
3" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE NOTES ON LANDSCAPE PLAN FOR TYPE OF MULCH).
FINISHED GRADE.
3x widest dimension of root ball.
SECTION VIEW

NOTES:
1- TREES SHALL BE OF SPECIMEN QUALITY.

2- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

4 TREE PLANTING

1/2" = 1'-0"

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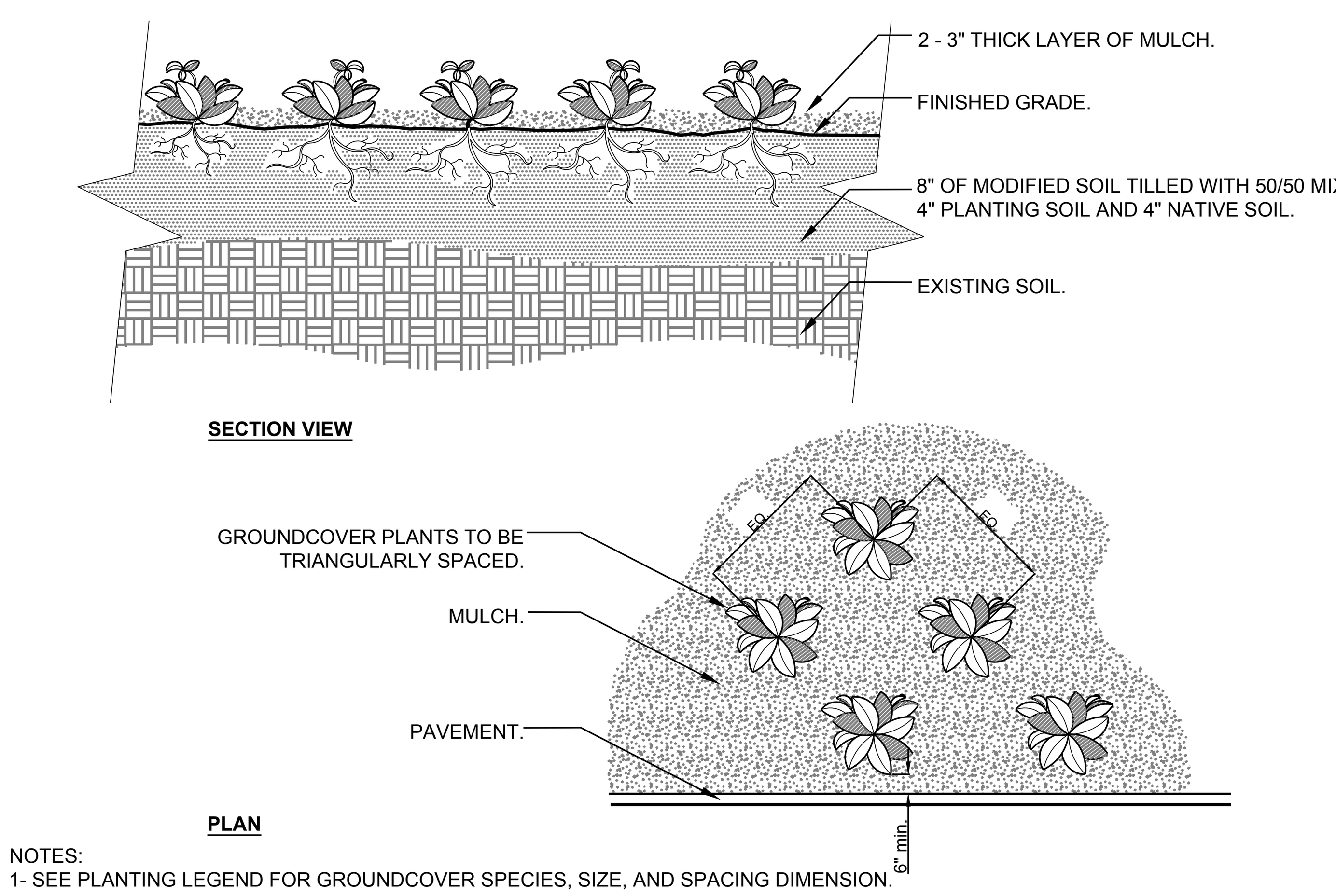

NOTES:
1- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.
2- SMALL ROOTS (¼" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPERHY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).
3- SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

2 GROUNDCOVER

3/4" = 1'-0"

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0003-01

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GEORGIA REGISTERED LANDSCAPE ARCHITECT LA001696 JONATHAN MICHAEL BULLARD
Jonathan M. Bullard
2/04/19

No. PE 035923 PROFESSIONAL ENGINEER JACK McGOWAN JOHNSON
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