

CONSTRUCTION PLANS FOR CITY OF SOCIAL CIRCLE, GEORGIA PUBLIC WORKS BUILDING – LAND DISTURBING PLAN

PARCEL NUMBER: SC170076 & SC170077
345 VINE CIRCLE, SOCIAL CIRCLE, GA 30025

CITY COUNCIL

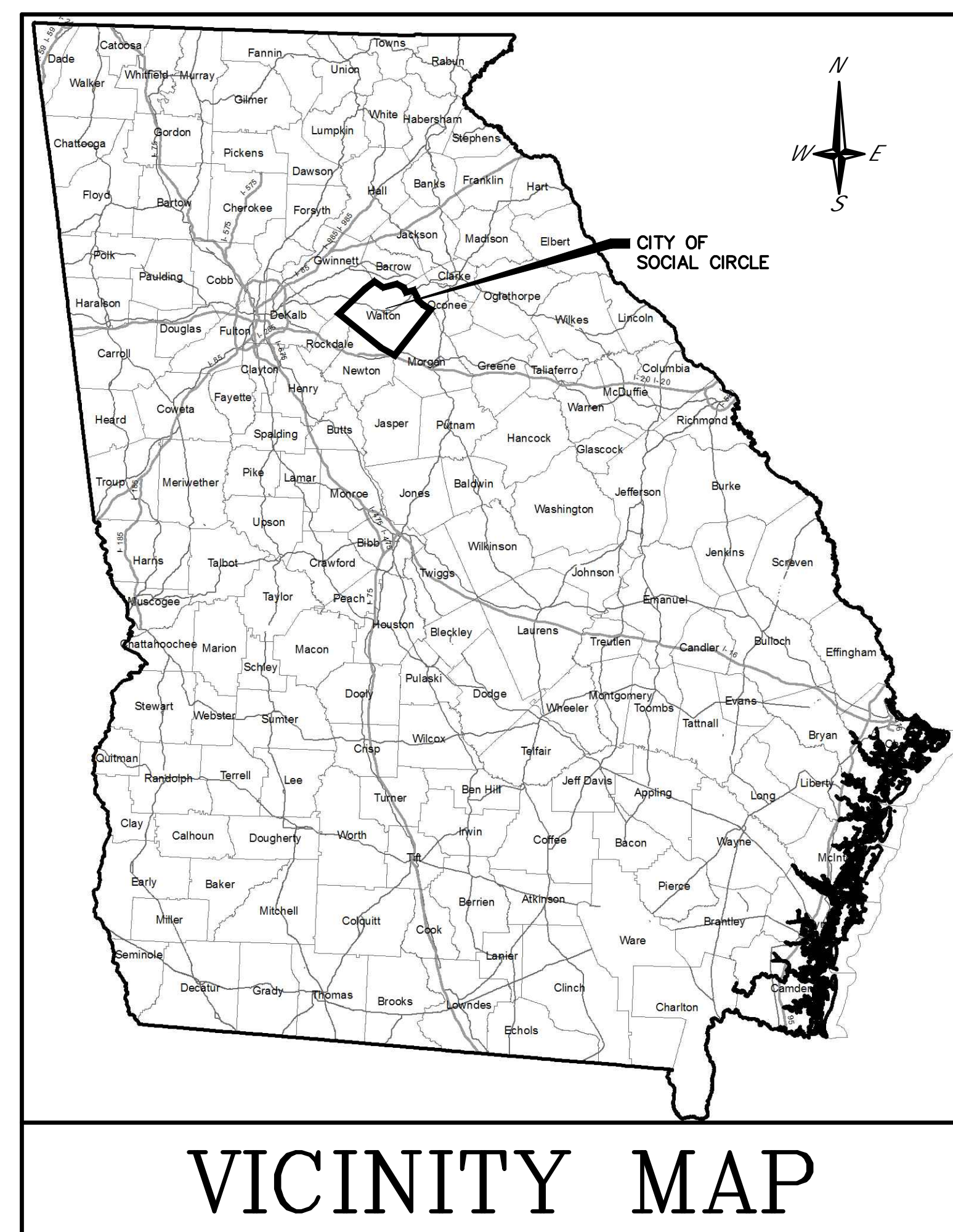
DAVID KENNER, MAYOR
TRAYSA PRICE, COUNCIL MEMBER
TYSON JACKSON, COUNCIL MEMBER
ADAM CONAVAY, COUNCIL MEMBER
STEVE SHELTON, COUNCIL MEMBER

CITY MANAGER

ERIC TAYLOR
24 HOUR CONTACT

ROBBIE GROVES, PUBLIC WORKS DIRECTOR
PHONE: (770) 464-6908
P.O. BOX 310
166 NORTH CHEROKEE ROAD
SOCIAL CIRCLE, GA 30025

MARCH 2026



VICINITY MAP

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ALL CONSTRUCTION PERMITS, EASEMENTS OR RIGHT-OF-WAY REQUIRED TO BEGIN CONSTRUCTION HAVE BEEN OBTAINED WITH THE FOLLOWING EXCEPTION(S):

SEE SPECIFICATIONS

ALL EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY L& DISTURBING ACTIVITY.

PROJECT No: 242774

FUNDING: LOCAL/CITY FUNDS



ATLANTA
AUGUSTA
ST. SIMONS ISL&



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PROJECT NUMBER

2512

DATE

12/09/25

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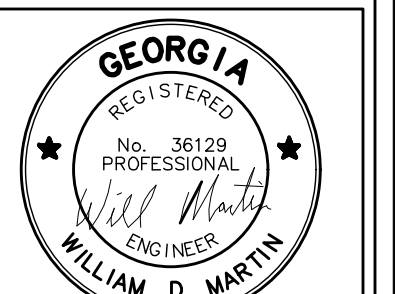
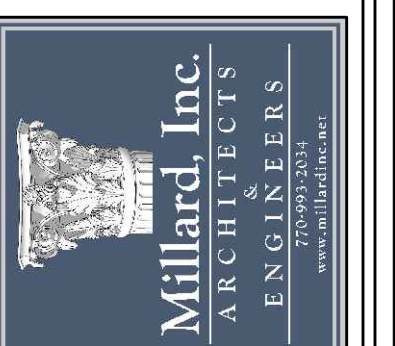
REVISIONS

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
COVER SHEET
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025

ATLANTA
AUGUSTA
ST. SIMONS ISLAND



Millard, Inc.
Architects & Engineers
580 Colonial Park Drive
Roswell, Georgia 30075
770-993-2034



GSWCC LEVEL II
CERTIFICATION NO. 000055308

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SHEET NUMBER

E-0

SOIL EROSION & SEDIMENTATION CONTROL NOTES:

1. NOTIFY COUNTY ENGINEERS OFFICE 48-HOURS PRIOR TO CONSTRUCTION, PORING TRAP TOPS, DUMPING BASE, OR PAVING.
2. ALL CONSTRUCTION IN RIGHTS-OF-WAY TO CONFORM TO CITY OF SOCIAL CIRCLE STANDARDS & SPECIFICATIONS.
3. ALL EASEMENTS TO BE GRASSED AND/OR RIP-RAPPED AS REQUIRED TO CONTROL EROSION.
4. WITHIN CITY RIGHTS-OF-WAY:
 - A. TOP 6-INCH OF SUB-BASE MUST BE THOROUGHLY MIXED IN PLACE AND COMPACTED TO 100% MAXIMUM DRY DENSITY, STANDARD PROCTOR.
 - B. SUB-BASE MUST BE GDOT SPEC SEC 810 CLASS 1A MATERIAL; HIGHER CLASSES OF SOIL MAY NOT BE USED FOR SUB-BASES; WHEN SUB-BASE DOES NOT MEET CLASS 1A THEN ACCEPTABLE SUB-BASE STABILIZATION METHODS ARE:
 - * LIME STABILIZATION
 - * PORTLAND CEMENT
 - * AGGREGATE
 - * TYPE B ASPHALT BASE MATERIAL; METHOD TO BE USED AND SPECIFIC DESIGN MUST BE APPROVED BY THE COUNTY ENGINEER
 - C. BASE MATERIAL IS COMPACTED GRADED. AGGREGATE CONFORMING TO GDOT SPEC SEC 815 COMPACTED TO 100% MAXIMUM DRY DENSITY, STANDARD PROCTOR OR 4" ABC PLACED IN ACCORDANCE WITH GDOT SECTION 400; BASE MATERIAL TO BE 6-INCH OF GRADED AGGREGATE BASE AND PAVING MATERIAL TO BE 20 INCHES APPROVED ASPHALT MIX OR MUST MATCH THE DESIGN OF THE ADJOINING ROADBED, WHICH EER IS THE GREATER; CERTIFICATION OF BASE MATERIAL MUST BE SUBMITTED PRIOR TO DUMPING BASE.
5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
6. 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.
7. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
8. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED PER GEORGIA DEPARTMENT OF TRANSPORTATION REQUIREMENTS UNLESS NOTED OTHERWISE.
9. INITIAL BMP'S INCLUDING SILT FENCE MUST BE IN PLACE PRIOR TO CLEARING, REGARDLESS OF PLAN

REQUIREMENT OR LOT SIZE. NO CLEARING OR GRADING MAY BE DONE UNTIL INITIAL BMP INSTALLATION IS COMPLETE. CONTRACTOR MUST CONTACT ENGINEERING SERVICES FOR INSPECTION BMP'S PRIOR TO BEGINNING CLEARING OR GRADING ACTIVITIES..

10. TEMPORARY BMP'S SHALL NOT BE REMOVED UNTIL A N.O.T. IS FILED OR 100% STABILIZATION WITH PERMANENT VEGETATION AT 70% DENSITY IS REACHED AND ALL AREAS REMAINING ARE MADE IMPERVIOUS.
11. ALL DISTURBED AREAS SHALL BE GRASSED ACCORDING TO THE VEGETATIVE COVER NOTES, SEE EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES.
12. NO CERTIFICATE OF OCCUPANCY WILL BE RELEASED UNTIL ALL SITE IMPROVEMENTS, AS APPROVED BY THE CITY ENGINEER ARE COMPLETED.
13. THE CONTRACTOR WILL ADHERE TO THE WEIGHT LIMITS PRESCRIBED ON COUNTY MAINTAINED ROADS FOR HAULING EQUIPMENT AND/OR MATERIALS TO AND FROM THIS SITE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO THE STREETS AND/OR UTILITIES DUE TO NON-COMPLIANCE OF WEIGHT LIMIT REGULATIONS.
14. ALL DEVELOPERS AND/OR CONTRACTORS ARE RESPONSIBLE TO REMOVE OR CLEAN OUT ANY SILT, DIRT, MUD OR ANY OTHER TYPE OF DEBRIS THAT COMES OFF THEIR SITE AND FINDS ITS WAY INTO A PRIVATE POND OR A COUNTY OWNED POND. THEY ARE RESPONSIBLE TO REMOVE ANY OF THE ABOVE-MENTIONED ITEMS THAT COME OFF THEIR SITE ONTO PRIVATE OR COUNTY OWNED PROPERTIES TO INCLUDE RIGHTS-OF-WAY.
15. PRIOR TO THE CERTIFICATE OF OCCUPANCY, THE PROPERTY ADDRESS MUST BE POSTED ON THE STRUCTURE WITH A MINIMUM OF 4-INCH LETTERS OR VISIBLE FROM THE STREET.
16. THE CONTRACTOR WILL COORDINATE THE WORK WITH UTILITY COMPANIES AND WILL VERIFY ALL EXISTING PIPE INVERTS AND EXISTING ROAD ELEVATIONS PRIOR TO CONSTRUCTION.
17. ALL BOXES AND TRAPS HAVING A DEPTH GREATER THAN 4-FOOT MUST HAVE STEPS VERTICALLY AND RING AND COVERS ALIGNED FOR READY ACCESS TO RUNGERS.
18. FULL WIDTH OF RIGHTS-OF-WAY AND ADDITIONAL UTILITY EASEMENT MUST BE CLEARED AND GRADED WITH A SLOPE OF 1/2" TO 2" PER FOOT.
19. NO MARQUEE, ISLAND, OR SPRINKLER SYSTEM MAY BE LOCATED WITHIN COUNTY RIGHTS-OF-WAY.
20. SOCIAL CIRCLE MAY REQUIRE ADDITIONAL ITEMS: RIP-RAP AT DISCHARGE POINTS AND STILLING STRUCTURES, SWALES ALONG REAR AND/OR SIDE LOTS LINES AFTER DEVELOPMENT BEGINS, AND/OR FRENCH DRAINS.
21. ACCORDING TO FLOOD INSURANCE RATE MAP 1307300141D AND REVISED MAP 132970240F THERE ARE FLOOD PLAINS WITHIN THE PROJECT BOUNDARY. NOT CUT OR FILL PROPOSED IN THE FLOODPLAIN.
22. STORMWATER QUALITY WILL BE ADDRESSED WITH THE FULL DEVELOPMENT PLAN SUBMITTAL.
24. NO PART OF SIGNS LOCATED WITHIN 5' OF THE R/W
25. DEVELOPERS AND/OR CONTRACTOR ARE RESPONSIBLE TO REMOVE OR CLEAN OUT ANY SILT, DIRT, MUD, OR ANY OTHER TYPE OF DEBRIS THAT COMES OFF THEIR SITE AND FINDS ITS WAY INTO A PRIVATE POND OR A COUNTY OWNED POND. THEY ARE RESPONSIBLE TO REMOVE ANY OF THE ABOVE MENTIONED ITEMS THAT COME OFF THEIR SITE ONTO PRIVATE OR COUNTY OWNED PROPERTIES TO INCLUDE THE RIGHTS OF WAYS
26. SITE VISIT COMPLETED BY INSPECTOR:

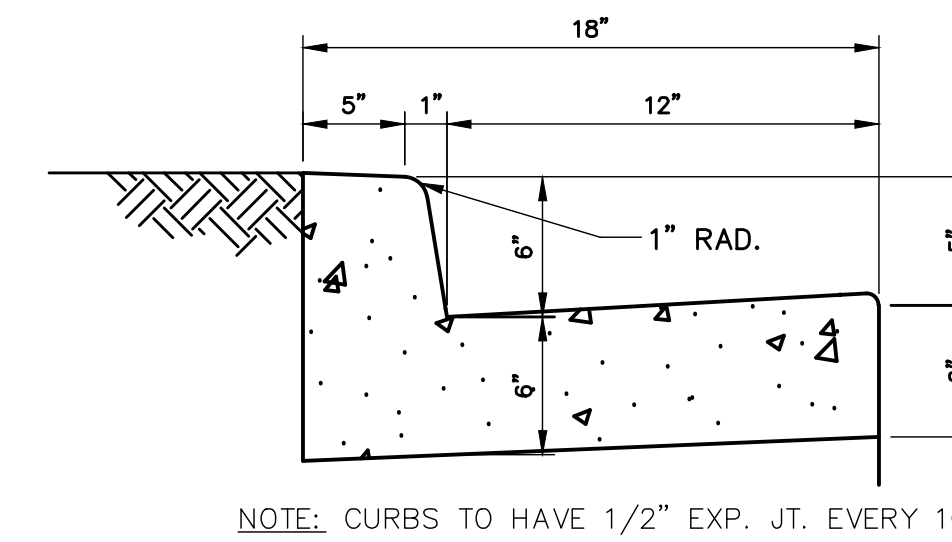
DATE: _____

WATER & SEWER UTILITY NOTES:

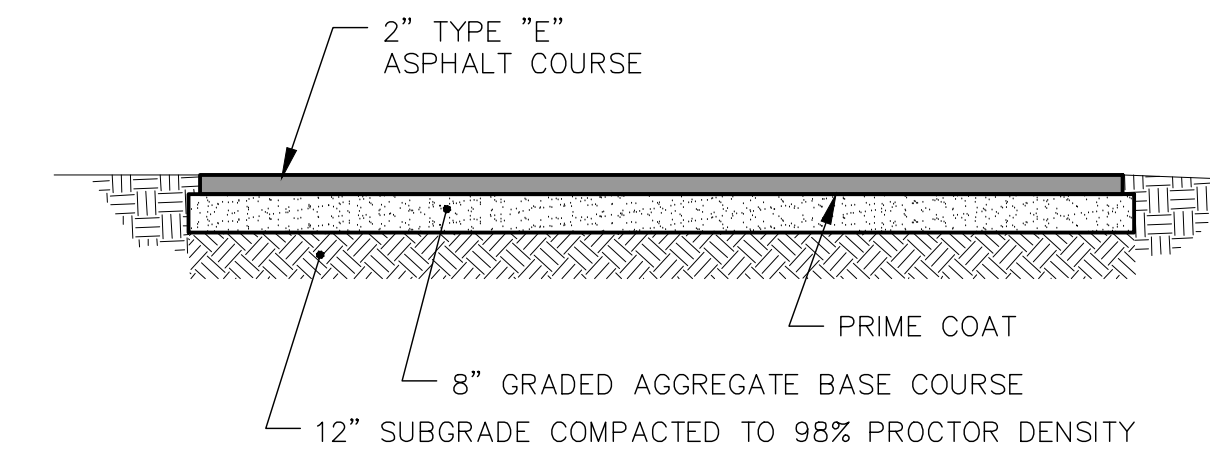
1. THE LOCATION OF EXISTING UTILITY LINES SHOWN IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION. CONTRACTOR TO CALL UTILITIES PROTECTION CENTER: "CALL BEFORE YOU DIG" 811, 72-HOURS PRIOR TO STARTING WORK.
2. SEWERS CROSSING AND WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER OR STORM PIPE. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER LINE TO MAINTAIN LINE AND GRADE.
3. MINIMUM COVER FOR THE WATER LINES SHALL BE 4'-0".
4. ALL EXCAVATION INCLUDING TRENCHING, BORE-PITS, ETC. SHALL BE BACKFILLED AT THE END OF EACH WORK DAY.
5. CONTRACTOR TO ADHERE TO SOIL EROSION REQUIREMENTS AS FOUND IN THIS PLAN SET, AS REQUIRED BY SOCIAL CIRCLE, AND AS REQUIRED BY GSWCC.
6. ALL WATER AND SANITARY SEWER CONSTRUCTION TO CONFORM TO COLUMBIA COUNTY STANDARDS AND SPECIFICATIONS.
7. CONNECTION TO EXISTING SANITARY SEWER WILL BE ALLOWED, PROVIDING THAT THE EXISTING TIE-IN MANHOLE IS PROPERLY PLUGGED AND THAT THE NEXT PROPOSED MANHOLE IS PLUGGED. FAILURE TO DO SO, WILL RESULT IN THE CONTRACTOR ASSUMING ALL RESPONSIBILITY AND LIABILITY FOR ANY DAMAGE TO THE DOWNSTREAM LIFT STATION AND PUMPS.
8. ALL EASEMENTS TO BE GRASSED AND/OR RIP-RAPPED AS REQUIRED TO CONTROL EROSION.
9. WATER LINE WILL NOT BE PUT ON LINE UNTIL IT IS CHLORINATED, PRESSURE TESTED, AND CHECKED FOR BACTERIA.
10. MAXIMUM INFILTRATION ALLOWABLE FOR SANITARY SEWER - 50 GAL./IN./DIA OF PIPE/ MILE
11. SOCIAL CIRCLE PUBLIC WORKS DEPARTMENT ENGINEERING OFFICE SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WATER OR SEWER TAPS BEING MADE.
12. CONTRACTOR/ DEVELOPER TO PROVIDE ALL WATER TAPS TO EXISTING SYSTEM FOR LINES 2" AND LARGER.
13. NO CERTIFICATE OF OCCUPANCY WILL BE RELEASED UNTIL ALL SITE IMPROVEMENTS, AS APPROVED BY THE WATER DEPARTMENT ENGINEERING OFFICE, ARE COMPLETED.
14. CONNECTION TO THE EXISTING SANITARY SEWER MANHOLE, FOR EITHER THE MAIN LINE OR FOR SERVICES, SHALL BE MADE BY CORING. NO HAMMERING, JACKHAMMERING, OR CHIPPING WILL BE ALLOWED. AN INSPECTOR SHALL BE PRESENT AT THE TIME OF THE TIE IN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT NO DEBRIS ARE ALLOWED DOWNSTREAM. A FLEXIBLE RUBBER BOOT SHALL ALSO BE INSTALLED INTO THE EXISTING MANHOLE.
15. ALL SANITARY SEWER SERVICES SHALL BE INSTALLED AT A MINIMUM GRADE OF 1% UNLESS APPROVED BY THE ENGINEER.
16. SEWER CLEANOUTS INSTALLED IN IMPERVIOUS SURFACES SHALL BE INSTALLED IN A CAST IRON, HEAVY DUTY VALVE BOX.
17. COUNTY/CITY HYDRANTS SHALL BE RED AND PRIVATE HYDRANTS SHALL BE SILVER. HYDRANTS SHALL COME FROM THE FACTORY PAINTED THE APPROPRIATE COLOR.
18. THE OWNER/DEVELOPER WILL BE RESPONSIBLE FOR SUBMITTING A PLAT, AS-BUILT, AND WARRANTY DEED TO THE COUNTY/CITY FOR THE COMPLETED UTILITY EXTENSIONS AND ASSOCIATED EASEMENTS.

ZONING NOTES:

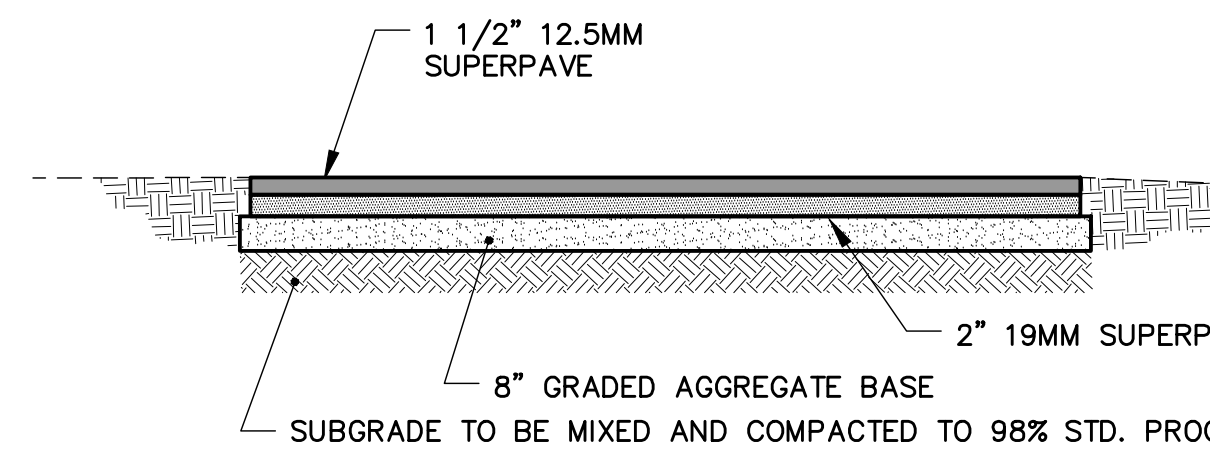
1. PARKING CALCULATIONS:
PAVED PARKING: 41 SPACES
PAVED HANDICAP: 2 SPACES
TOTAL: 43 SPACES



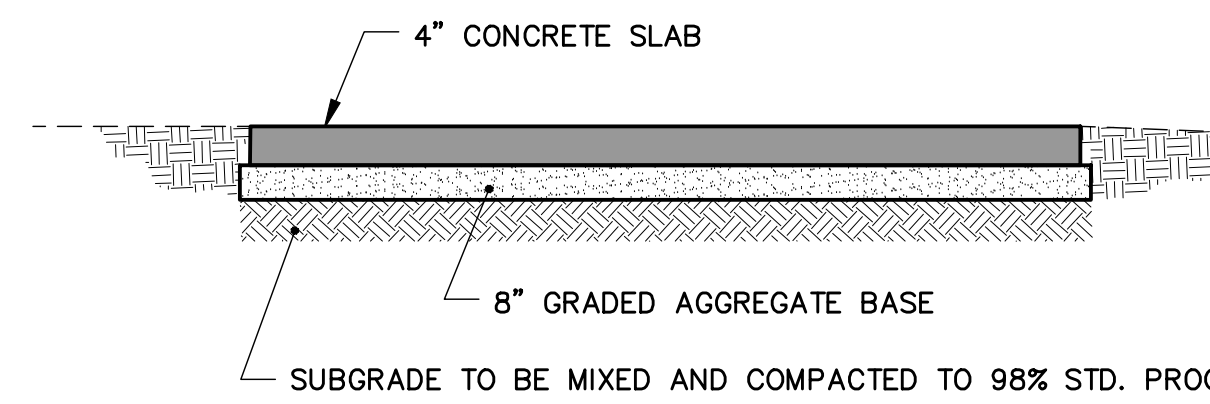
**STANDARD CURB
CURB AND GUTTER DETAIL**
N.T.S.



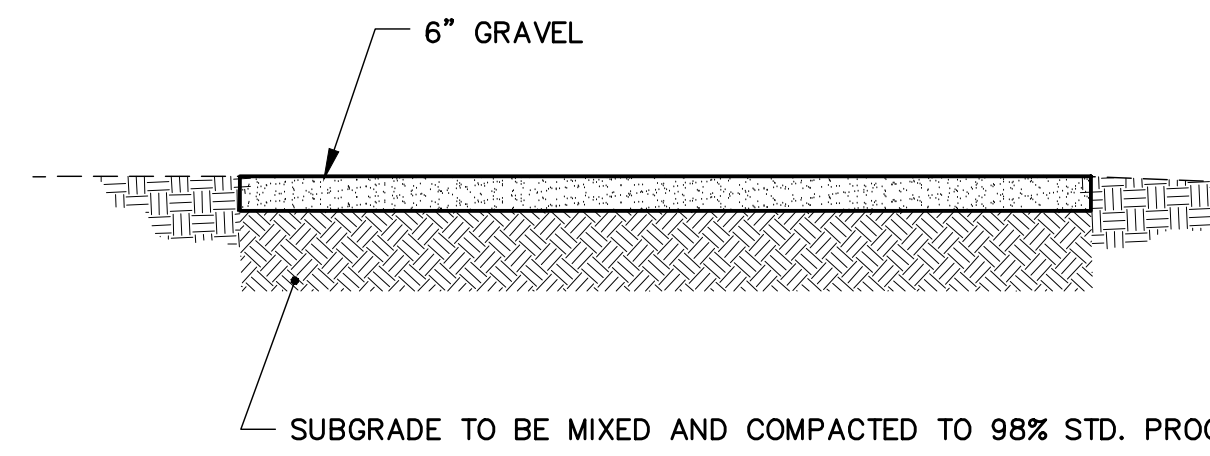
LIGHT DUTY ASPHALT DETAIL
N.T.S.



HEAVY DUTY PAVING DETAIL
N.T.S.



CONCRETE PAVING DETAIL
N.T.S.



GRAVEL STORAGE AREA DETAIL
N.T.S.

PROJECT NUMBER	2512
DATE	MARCH, 2026
DRAWN BY	NES
APPROVED BY	
REVISIONS	

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
PROJECT NOTES & TYPICAL SECTIONS
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025

ALABAMA
ARIZONA
FLORIDA
GEORGIA
MISSISSIPPI
NORTH CAROLINA
SOUTH CAROLINA
Tennessee
Texas
Virginia

TURNPIECE ENGINEERS

Millard, Inc.
Architects & Engineers
580 Colonial Park Drive
Roswell, Georgia 30075
770-993-2034

Millard, Inc.
ARCHITECTS
ENGINEERS

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 36129
WILLIAM D. WARTEN

GSWCC LEVEL II
CERTIFICATION NO. 000055308

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N/F
F&V INVESTMENTS LLLP
PARCELA SC170075
ZONED AG (CITY OF SOCIAL
CIRCLE)
D.B. 4458 PAGE 411
P.B.49 PAGE 112

N/F
CITY OF SOCIAL
CIRCLE
TAX PARCEL
SC170076
PROPERTY:
792,356 SQFT
18.19 ACRES
DB: 076 610, PB/P: 014 049

N/F
CITY OF SOCIAL
CIRCLE
TAX PARCEL
SC170077
PROPERTY:
1,067,220 SQFT
24.50 ACRES
DB: 076 610, PB/P: 014 049

N/F
CAMERON
KAREN LOUISE
TAX PARCEL
SWC17002600
RUR ZONING
D.B./044 PG. 178

T.B.M.
TOP OF STORM
MANHOLE
N: 1326232.9091
E: 2435790.1354
ELEV. = 758.14
(NAVD 88)

0 60' 120' 180'
GRAPHIC SCALE
1 inch = 60 ft.

GRID NORTH
GEORGIA WEST COORDINATES

- Legend**
- I.P.F. IRON PIN FOUND
 - I.P. IRON PIN (FOUND BY OTHERS)
 - O.T.F. OPEN TOP IRON FOUND
 - C.T.F. CRIMPED TOP IRON FOUND
 - PC PROPERTY CORNER COMPUTED
 - R.B.S. REBAR SET
 - R.B.F. REBAR FOUND
 - C.M.F. CONCRETE MONUMENT FOUND
 - C.N.S. CORNER NOT SET
 - PL PROPERTY LINE
 - OE OVERHEAD ELEC. LINES
 - ST STORM LINES
 - 125 EXISTING CONTOUR
 - +254.5 SPOT ELEVATION
 - EXISTING TREE
 - EXISTING WOODLINE
 - RIGHTS-OF-WAY/PROPERTY LINE
 - EXISTING DITCH
 - EXISTING SEWER
 - EXISTING WATER

- NOTE:**
1. BOUNDARY OF BURIED DEBRIS PER FIELD INVESTIGATION BY GEOSYSTEMS ENGINEERING.
 2. PROPERTY LINE SHOWN BASED ON SURVEY PROVIDED BY BASELINE ENGINEERING AND SURVEYING.

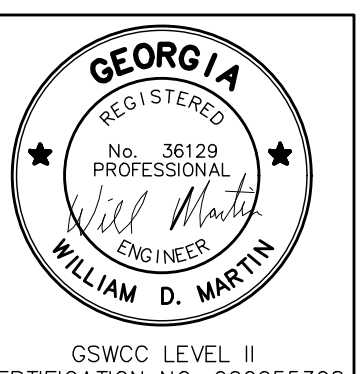
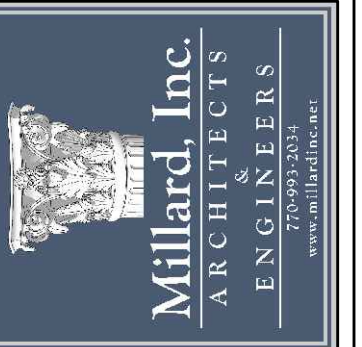
PROJECT NUMBER	2512
DATE	12/09/25
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APPROVED BY	

REVISIONS	

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
EXISTING TOPOGRAPHIC &
SITE BOUNDARY PLAN
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025



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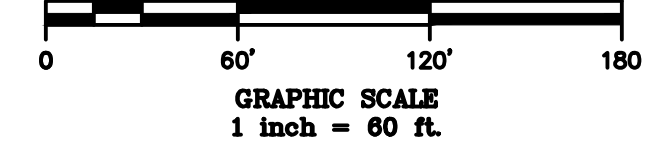
E-2

P:\Social Circle Public Works Facility\04-2 - Drawings\4 - Construction Drawings\242774_Base DWF.dwg

P:\Social Circle\242774_Social Circle Public Works Facility\04-2 - Drawings\4 - Construction Drawings\242774_Base DWF.dwg



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LEGEND

	EXISTING	PROPOSED
STRUCTURE	[Solid line]	[Dashed line]
ROADWAY	[Dashed line]	[Dashed line with cross-hatch]
FENCE	[Dashed line]	[Dashed line with cross-hatch]
PROPERTY LINE	[Dashed line]	[Dashed line]
MINIMUM BUILDING LINE	[Dashed line]	[Dashed line]
BUFFER	[Dashed line]	[Dashed line]
SEWER LINE & SERV. FORCE MAIN	[Dashed line]	[Dashed line]
FIRE PROTECTION	[Dashed line]	[Dashed line]
WOODS LINE	[Dashed line]	[Dashed line]
CONSTRUCTION LIMITS	[Dashed line]	[Dashed line]

PROJECT NUMBER
2512

DATE
12/09/25

DRAWN BY
NES

APPROVED BY

REVISIONS

NO.	DESCRIPTION

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
OVERALL SITE PLAN
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025

ALABAMA
ARIZONA
FLORIDA
GEORGIA
LOUISIANA
MISSISSIPPI
NORTH CAROLINA
SOUTH CAROLINA
Tennessee
Texas
Virginia
West Virginia

TURNIPSEED ENGINEERS

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Millard, Inc. ARCHITECTS & ENGINEERS

REGISTERED PROFESSIONAL ENGINEER
WILLIAM D. MARTIN
GSWCC LEVEL II
CERTIFICATION NO. 000055308

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SHEET NUMBER
E-3

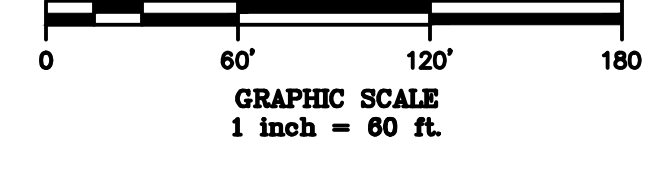
PROJECT NUMBER	2512
DATE	12/09/25
DRAWN BY	NES
APPROVED BY	
REVISIONS	



	EXISTING	PROPOSED
STRUCTURE		
ROADWAY		
FENCE		
PROPERTY LINE		
MINIMUM BUILDING LINE		
BUFFER		
SEWER LINE & SERV.		
FORCE MAIN		
FIRE PROTECTION		
WOODS LINE		
CONSTRUCTION LIMITS		

WASTE REMEDIATION NOTES:

1. CONTRACTOR SHALL REMOVE ALL MATERIAL IN THIS AREA TO A DEPTH OF 8'.
2. CONTRACTOR SHALL SCREEN ALL REMOVED MATERIAL WITH A NO. 4 SIEVE TO SEPARATE WASTE MATERIALS FROM THE SOIL.
3. CONTRACTOR SHALL STOCKPILE SOIL MATERIAL REMOVED FROM THE WASTE.
4. CONTRACTOR SHALL REMOVE WASTE AND HAUL TO THE LANDFILL. ALL HAUL TICKETS TO BE PROVIDED TO THE OWNER.
5. CONTRACTOR SHALL FILL PIT AREA WITH SUITABLE COMPACTED FILL PER PROJECT SPECIFICATIONS.
6. CONTRACTOR IS RESPONSIBLE FOR ALL STAKING AND REMOVAL OF DEBRIS. REPORT FOR TEST PITS CAN BE PROVIDED FOR LIMITS REFLECTED ON THIS DRAWING.

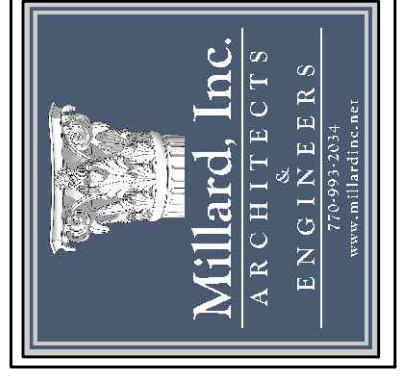


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CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
DEMOLITION PLAN
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025



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SHEET NUMBER

E-4

P:\Social Circle\242774_Social Circle Public Works Facility\04-2 - Construction Drawings\4 - Drawings\4 - Base DWG.dwg

PROJECT NUMBER	2512
DATE	12/09/25
DRAWN BY	NES
APPROVED BY	
REVISIONS	



	EXISTING	PROPOSED
STRUCTURE		
ROADWAY		
FENCE		
PROPERTY LINE		
MINIMUM BUILDING LINE		
BUFFER		
SEWER LINE & SERV.		
FORCE MAIN		
FIRE PROTECTION		
WOODS LINE		
CONSTRUCTION LIMITS		

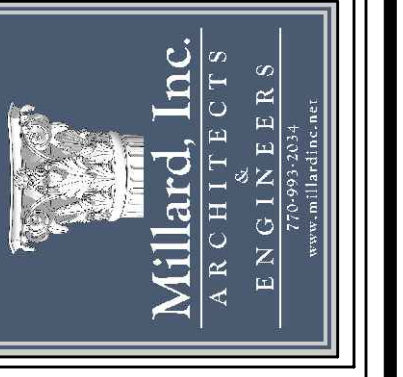
WASTE REMEDIATION NOTES:

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CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
DEMOLITION PLAN
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025



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SHEET NUMBER

E-4



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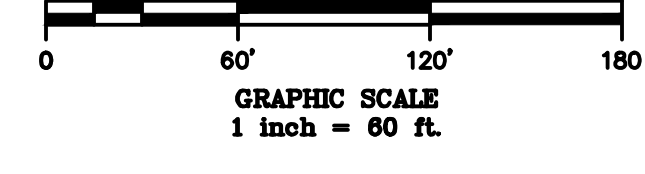
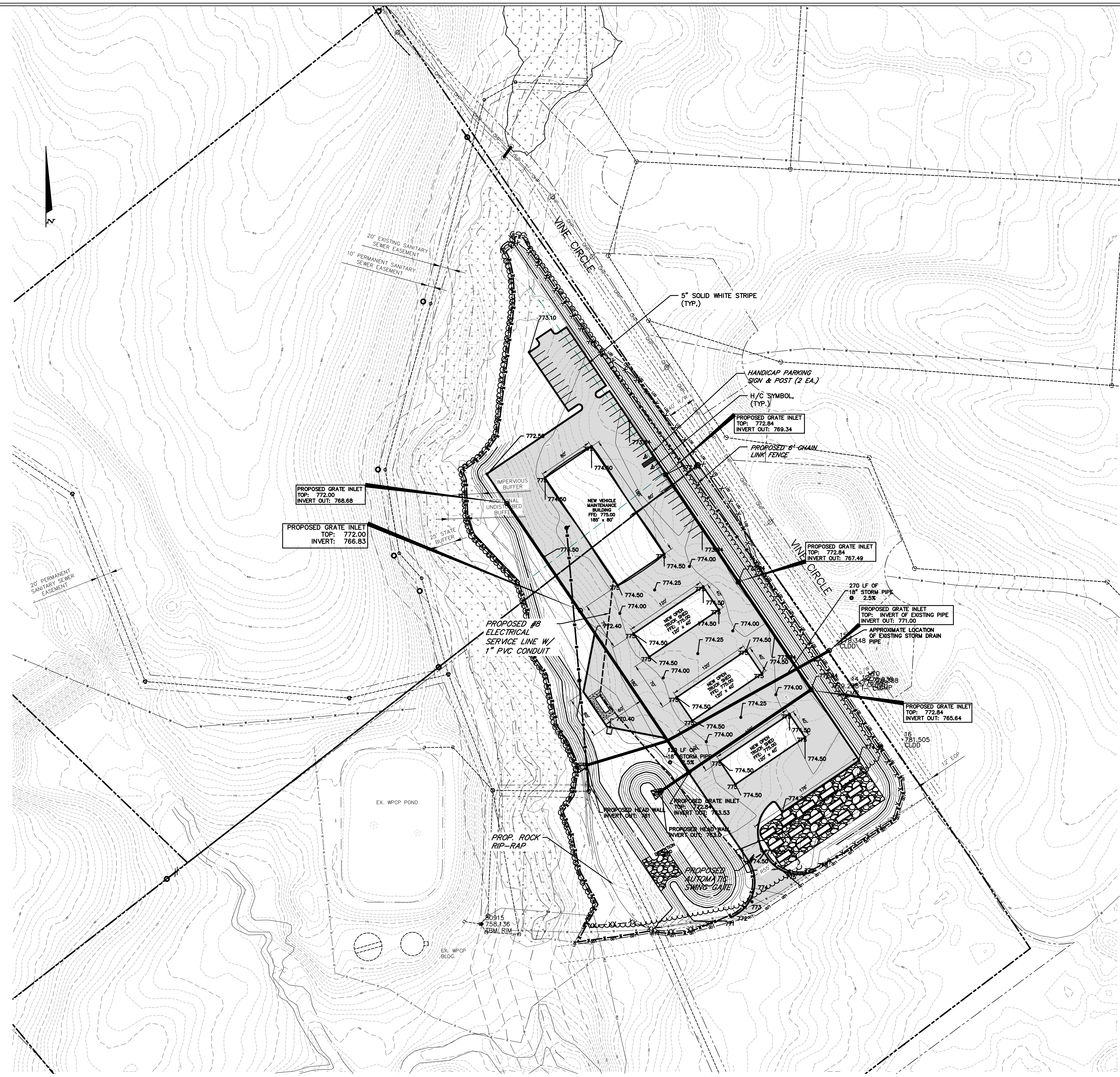
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PROJECT NUMBER	2512
DATE	12/09/25
DRAWN BY	NES
APPROVED BY	

REVISIONS	

- GENERAL NOTES:**
- SEE SHEET 2 FOR PROJECT NOTES.
 - SEE SHEET 3 FOR BENCH MARK ELEVATIONS.
 - ALL STRIPING SHALL BE THERMOPLASTIC UNLESS NOTED OTHERWISE.
 - ALL SIGNS SHALL CONFORM TO MUTCD STANDARDS & SPECIFICATIONS & STRIPING SHALL CONFORM TO GDOT STANDARDS.

	EXISTING	PROPOSED
STRUCTURE		
ROADWAY		
GRAVEL		
FENCE		
PROPERTY LINE		
MINIMUM BUILDING LINE		
BUFFER		
CONTOUR		
STORM SEWER LINE		
SEWER LINE & SERV.		
FORCE MAIN		
FIRE PROTECTION		
WOODS LINE		
DRAINAGE DITCH		
CONSTRUCTION LIMITS		
FLOW DIRECTION		

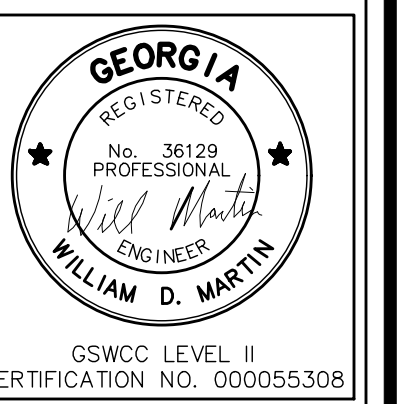
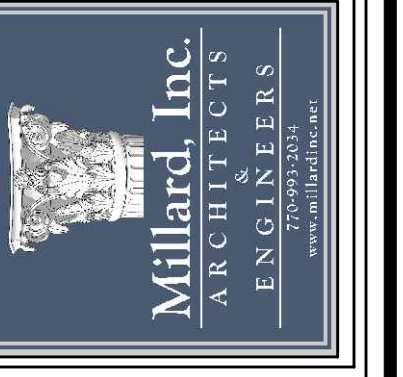


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CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
SITE GRADING, DRAINAGE PLAN,
& STRIPING LAYOUT
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025



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Architects & Engineers
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Roswell, Georgia 30075
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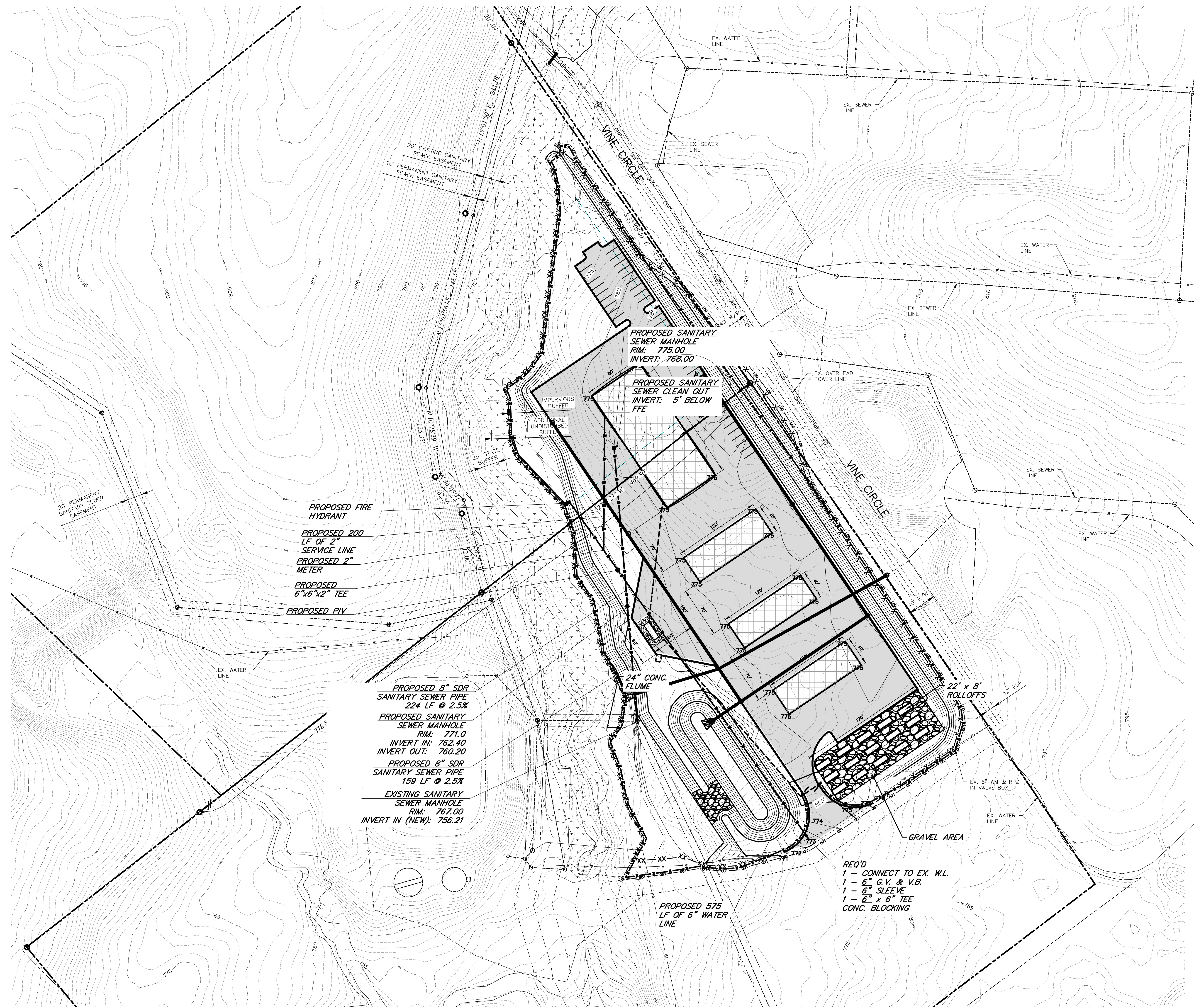
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SHEET NUMBER

E-5

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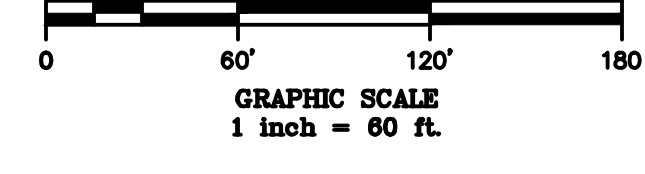
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- UTILITY NOTES:**
- SEE SHEET 2 FOR PROJECT NOTES.
 - SEE SHEET 3 FOR BENCH MARK ELEVATIONS.
 - EXISTING WATER SERVICE SHALL BE VERIFIED AS COPPER FROM THE TAP TO THE METER, IF NOT THEN THE SERVICE LINE WILL NEED TO BE UPGRADED.
 - THE PROPOSED FIRE LINE SHALL BE RJ DIP FROM THE TAP TO THE BACK FLOW DEVICE.
 - INSTALL TRAFFIC RATED COLLAR AND CAP ON ALL CLEANOUTS IN PAVEMENT OR SIDEWALKS.
 - NO TREE SHALL BE PLANTED IN COUNTY OWNED UTILITY EASEMENTS.
 - NO SHRUBS SHALL BE PLANTED ON TOP OF WATER LINES / SERVICES AND SANITARY SEWER LINES / SERVICES.
 - IF ANY AND ALL EXTRA WATER SERVICE TAPS THAT WILL NOT BE UTILIZED SHALL BE ABANDONED AT THE CORPORATION.

LEGEND

	EXISTING	PROPOSED
STRUCTURE	[Symbol]	[Symbol]
ROADWAY	[Symbol]	[Symbol]
GRAVEL ROLLOFF	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
PROPERTY LINE	[Symbol]	[Symbol]
MINIMUM BUILDING LINE	[Symbol]	[Symbol]
BUFFER	[Symbol]	[Symbol]
CONTOUR	[Symbol]	[Symbol]
STORM SEWER LINE	[Symbol]	[Symbol]
SEWER LINE & SERV.	[Symbol]	[Symbol]
FORCE MAIN	[Symbol]	[Symbol]
FIRE PROTECTION	[Symbol]	[Symbol]
WOODS LINE	[Symbol]	[Symbol]
DRAINAGE DITCH	[Symbol]	[Symbol]
CONSTRUCTION LIMITS	[Symbol]	[Symbol]
FLOW DIRECTION	[Symbol]	[Symbol]



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PROJECT NUMBER
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DATE
12/09/25

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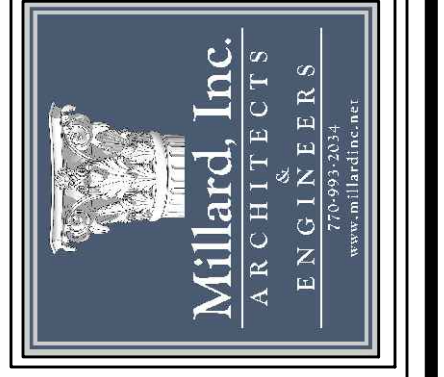
APPROVED BY

REVISIONS
ADDENDUM 2 04/16/26

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
WATER & SEWER UTILITY PLAN
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025

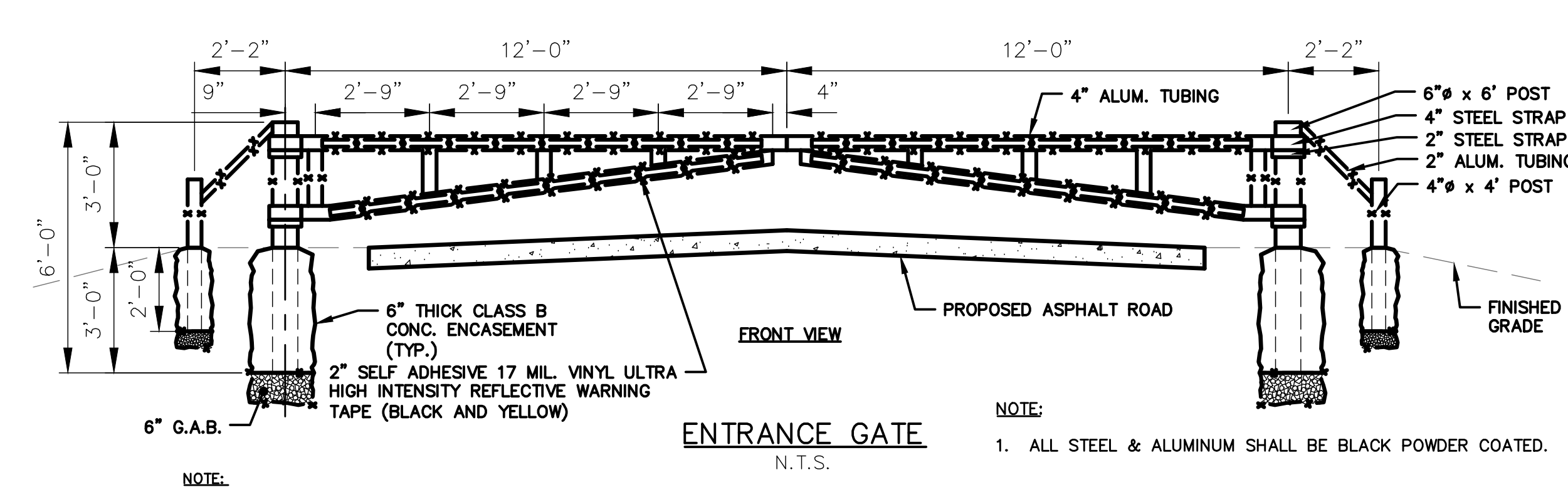
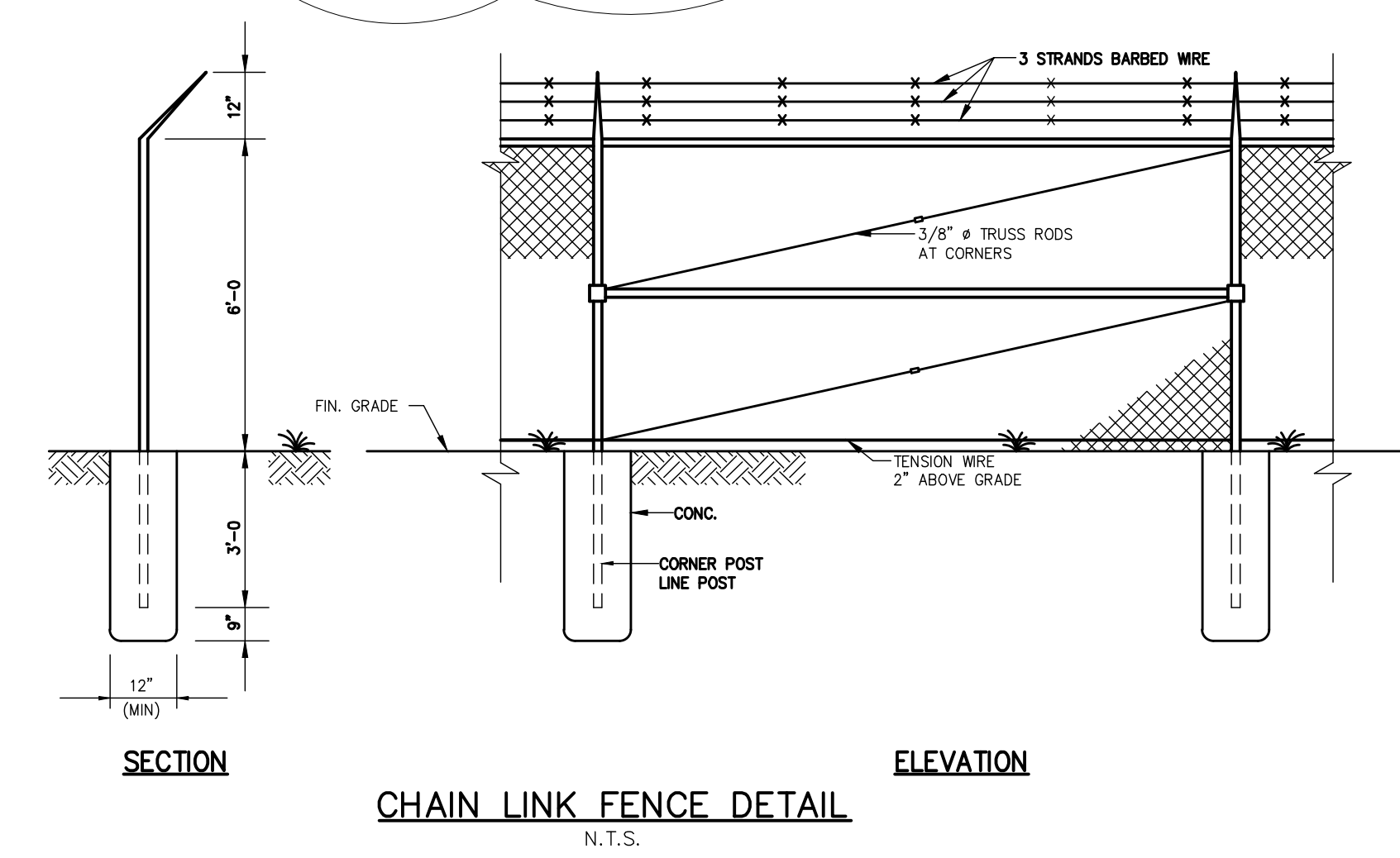
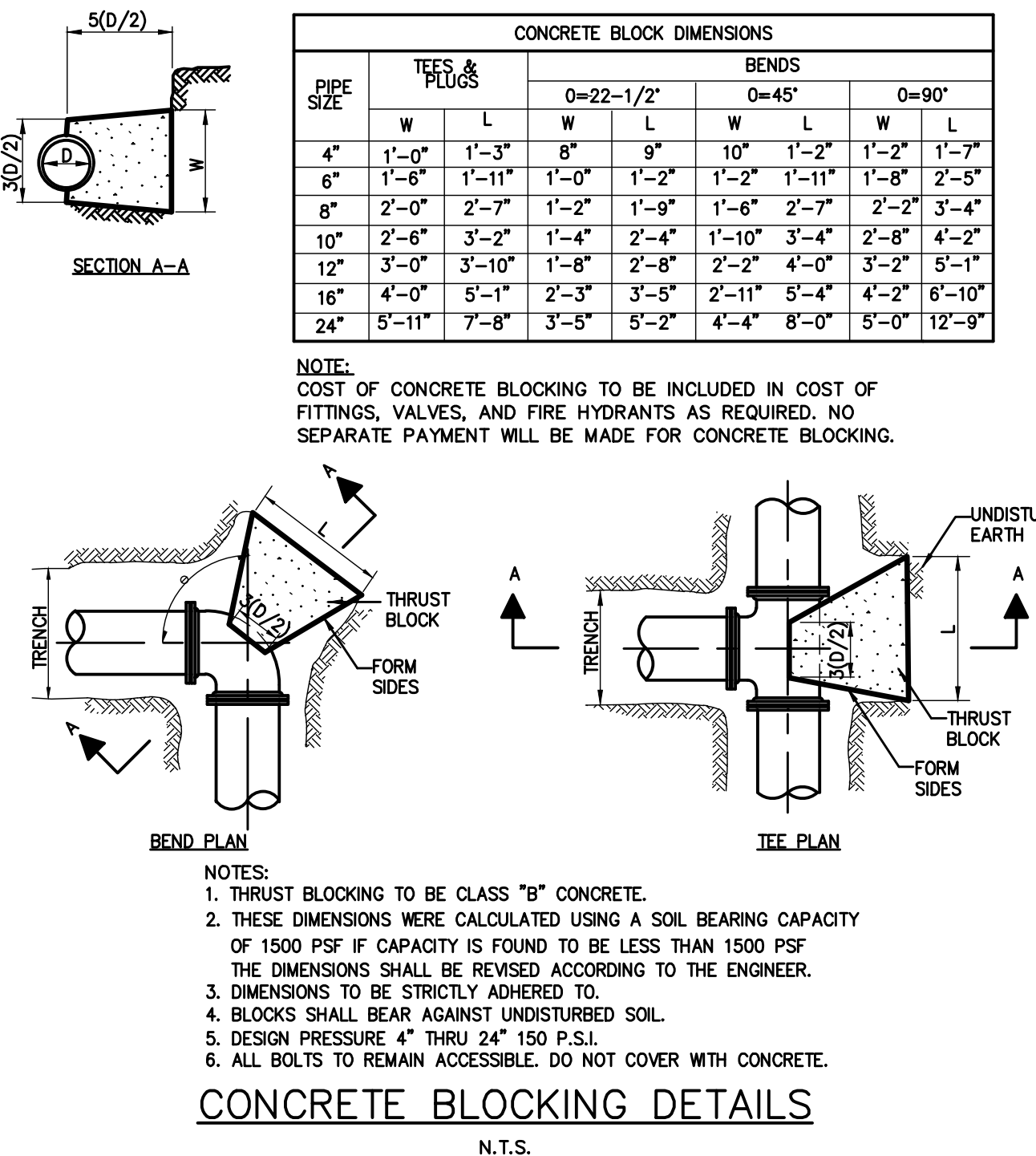
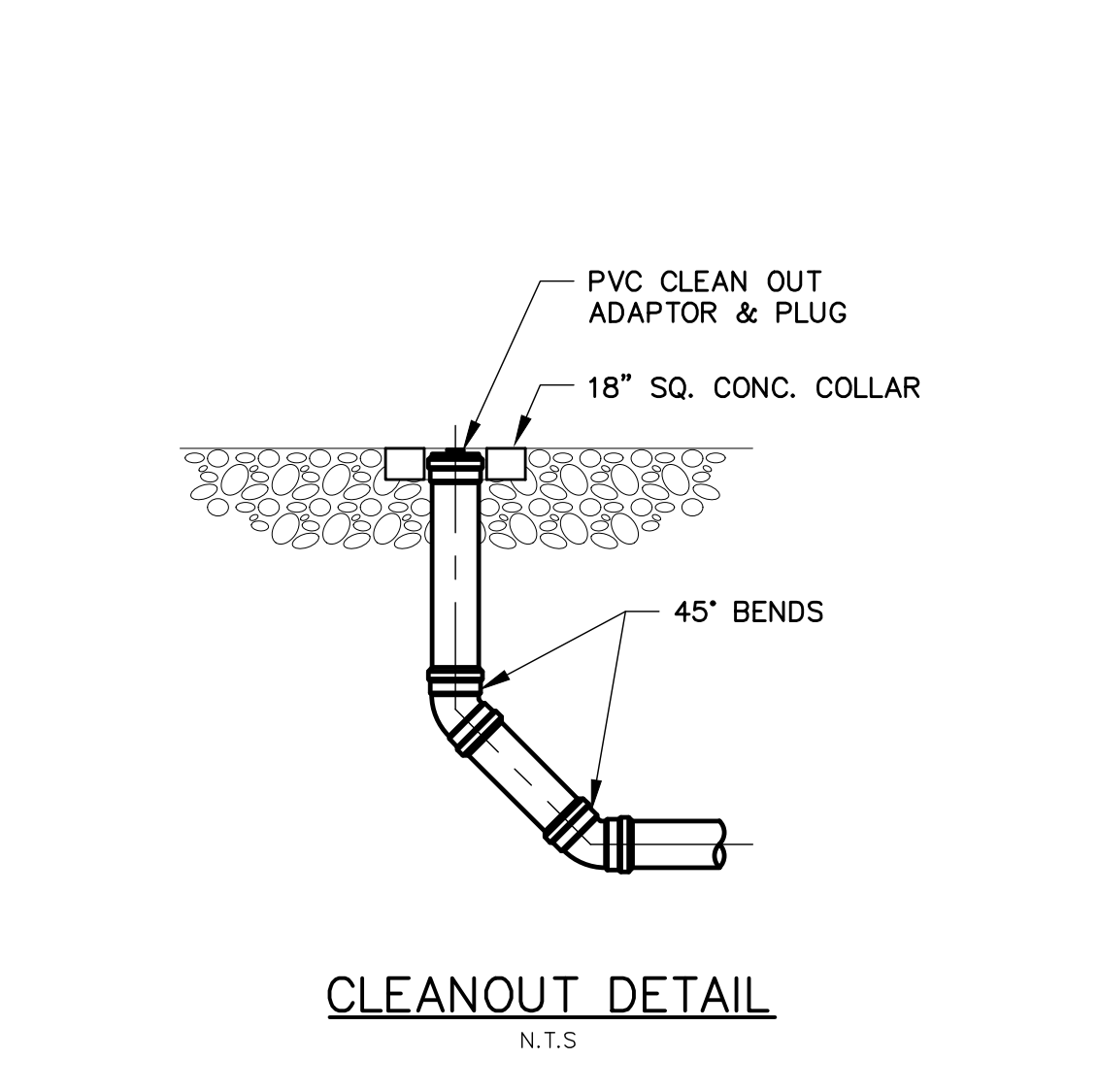
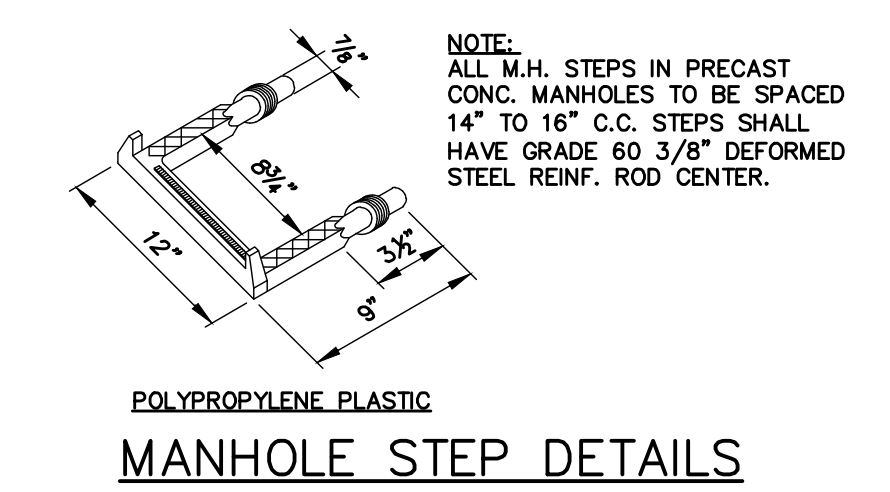
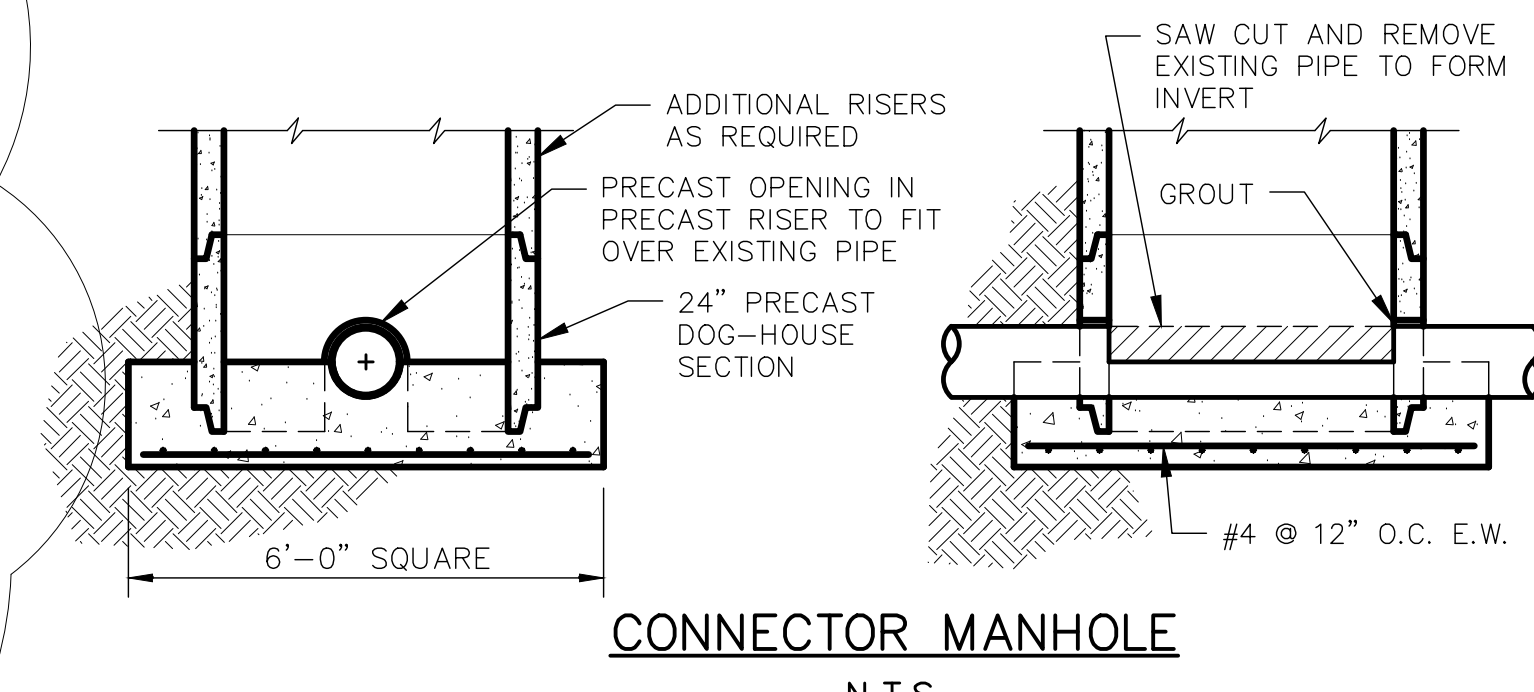
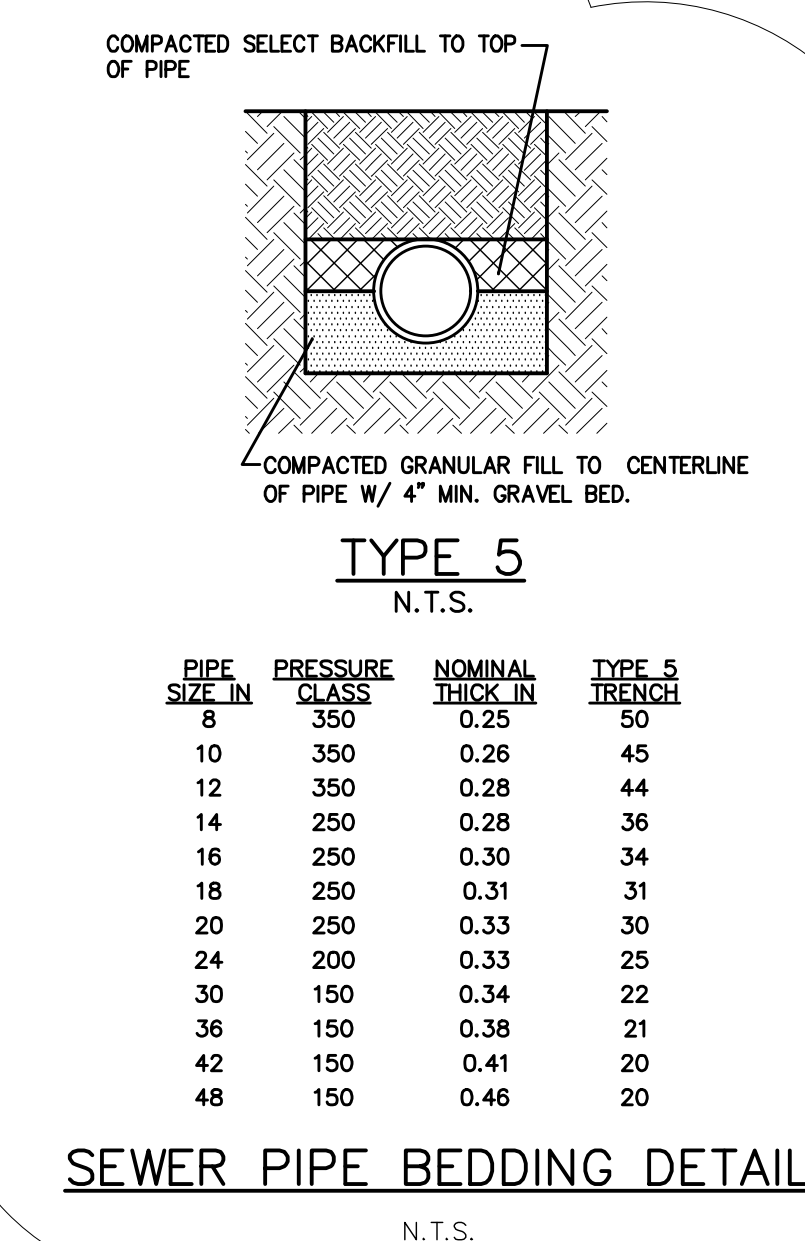
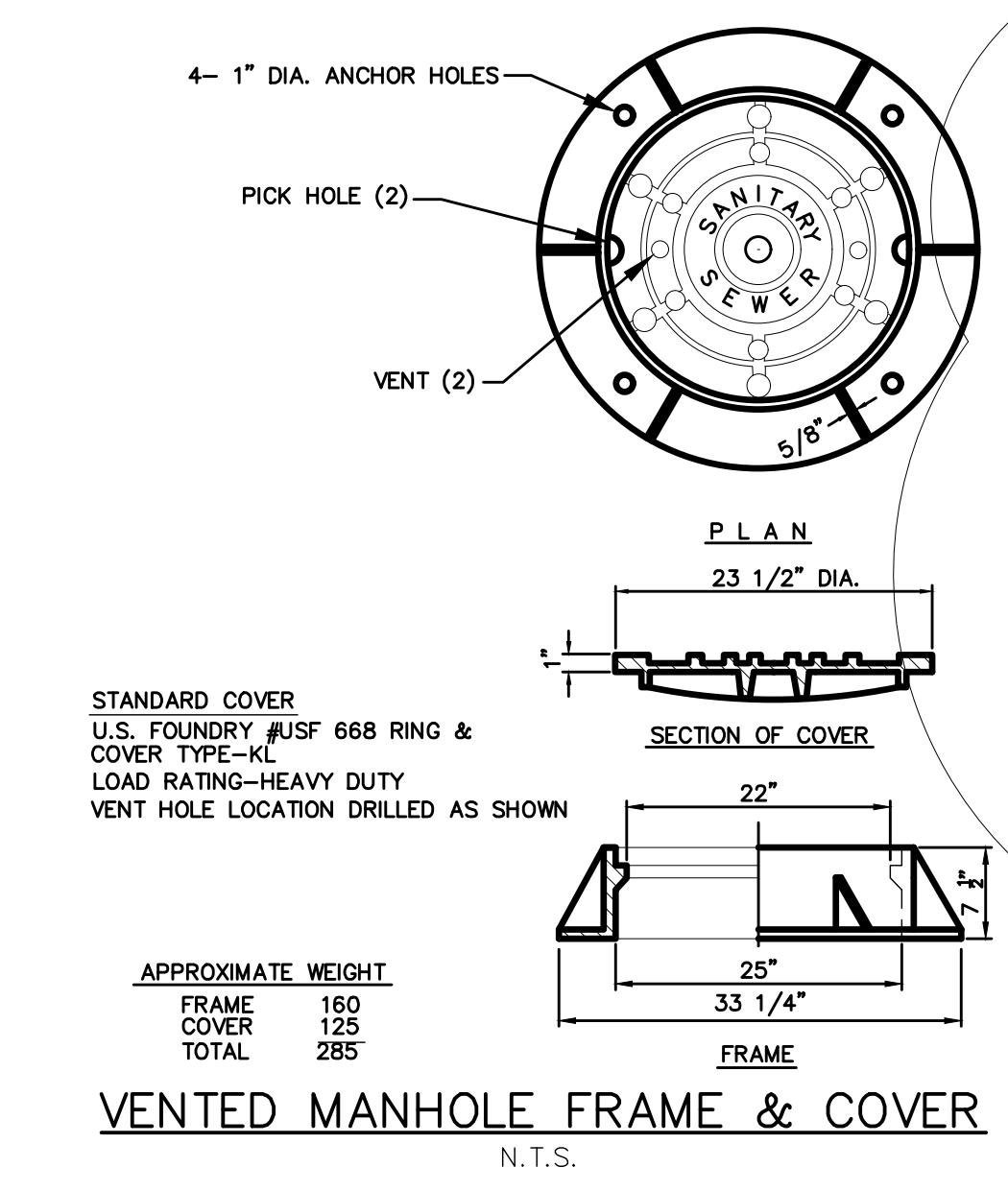
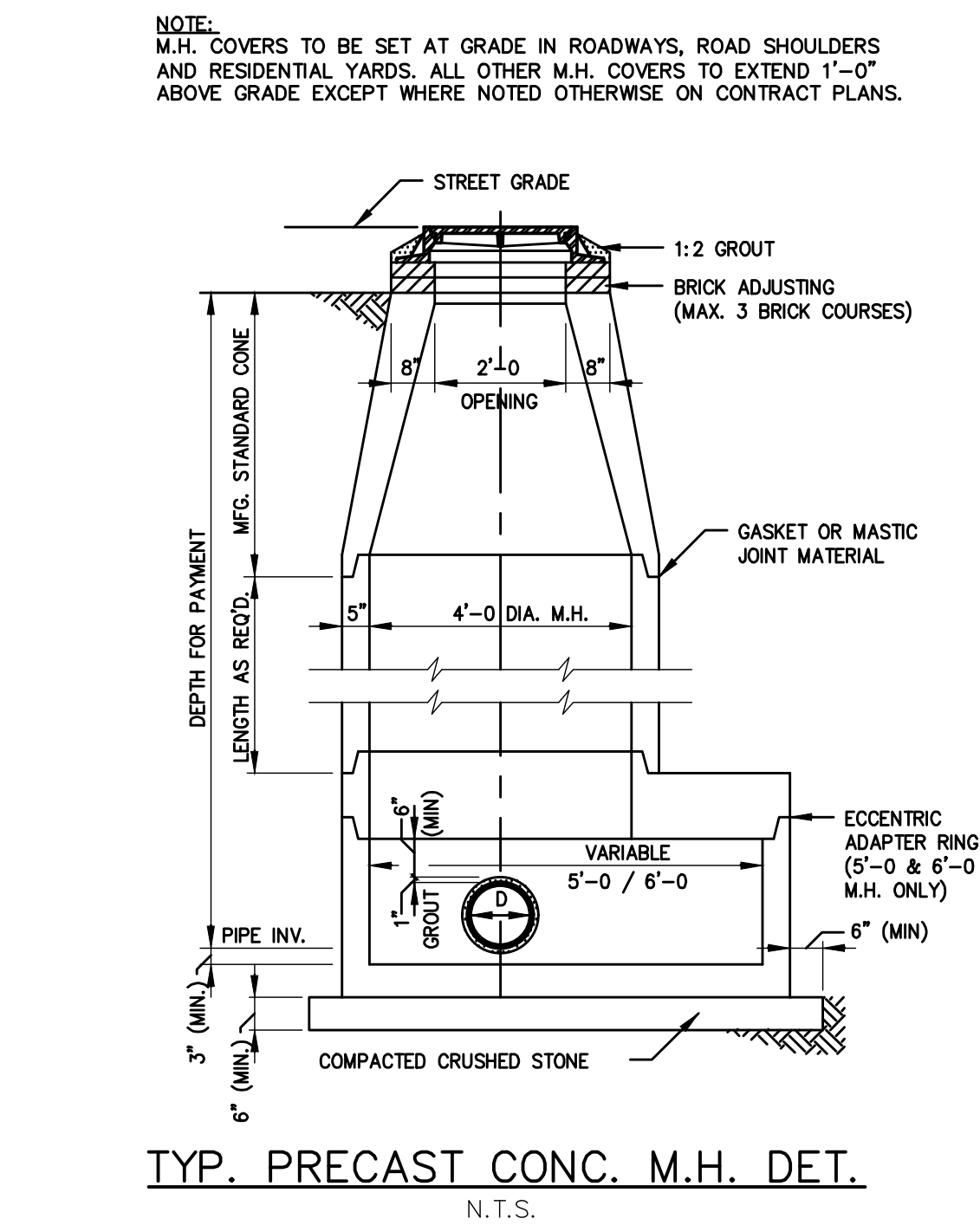
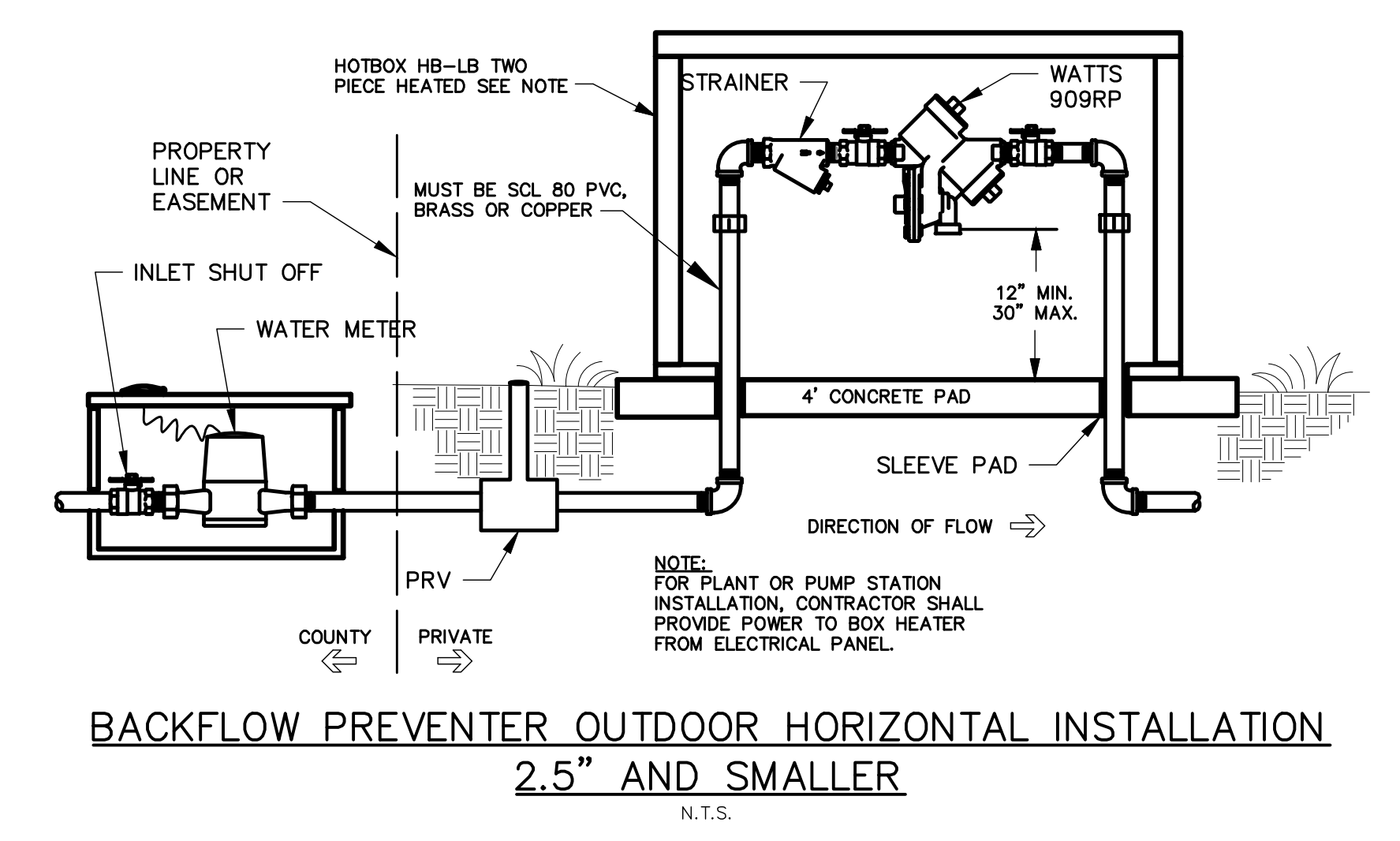
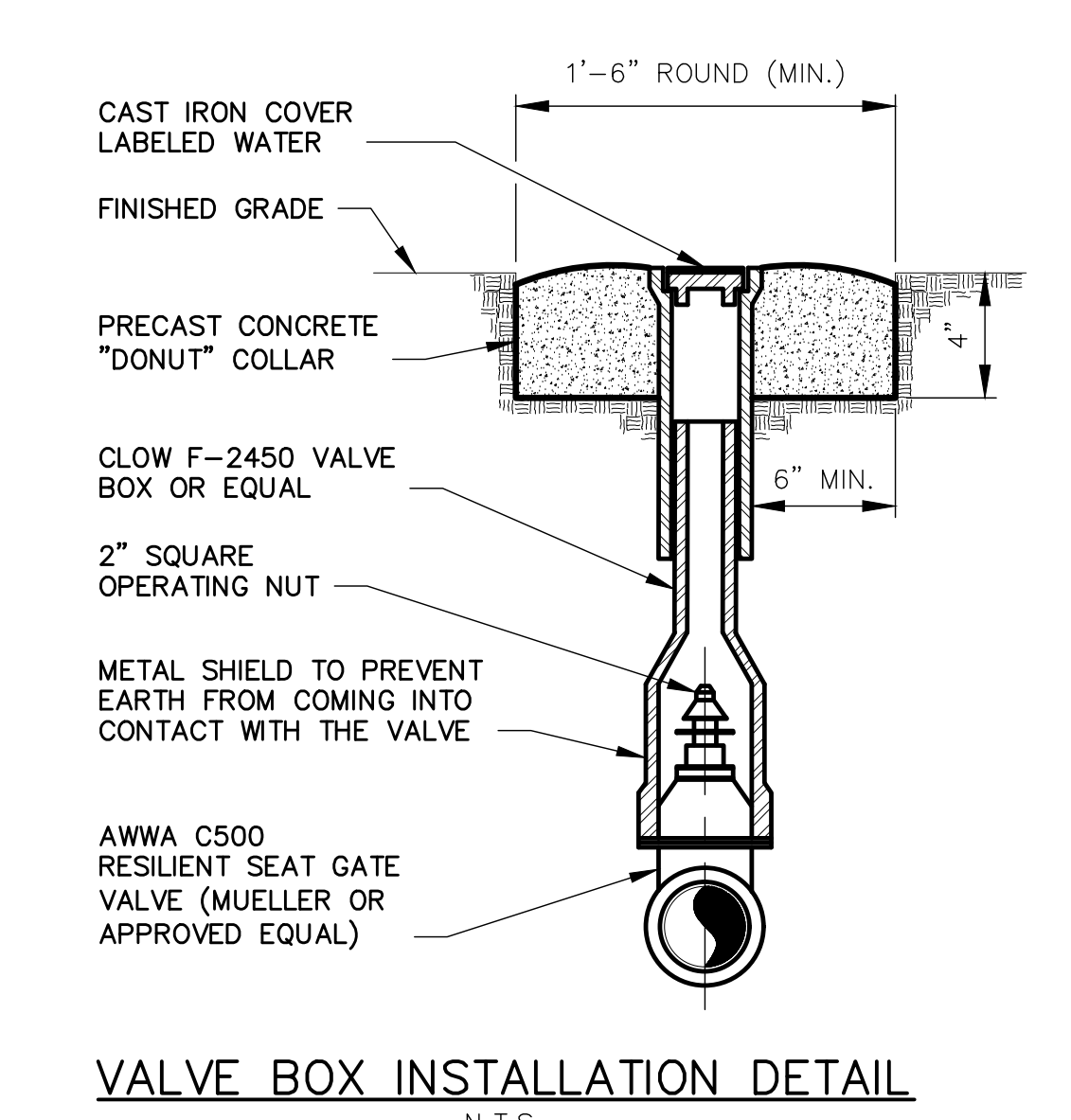
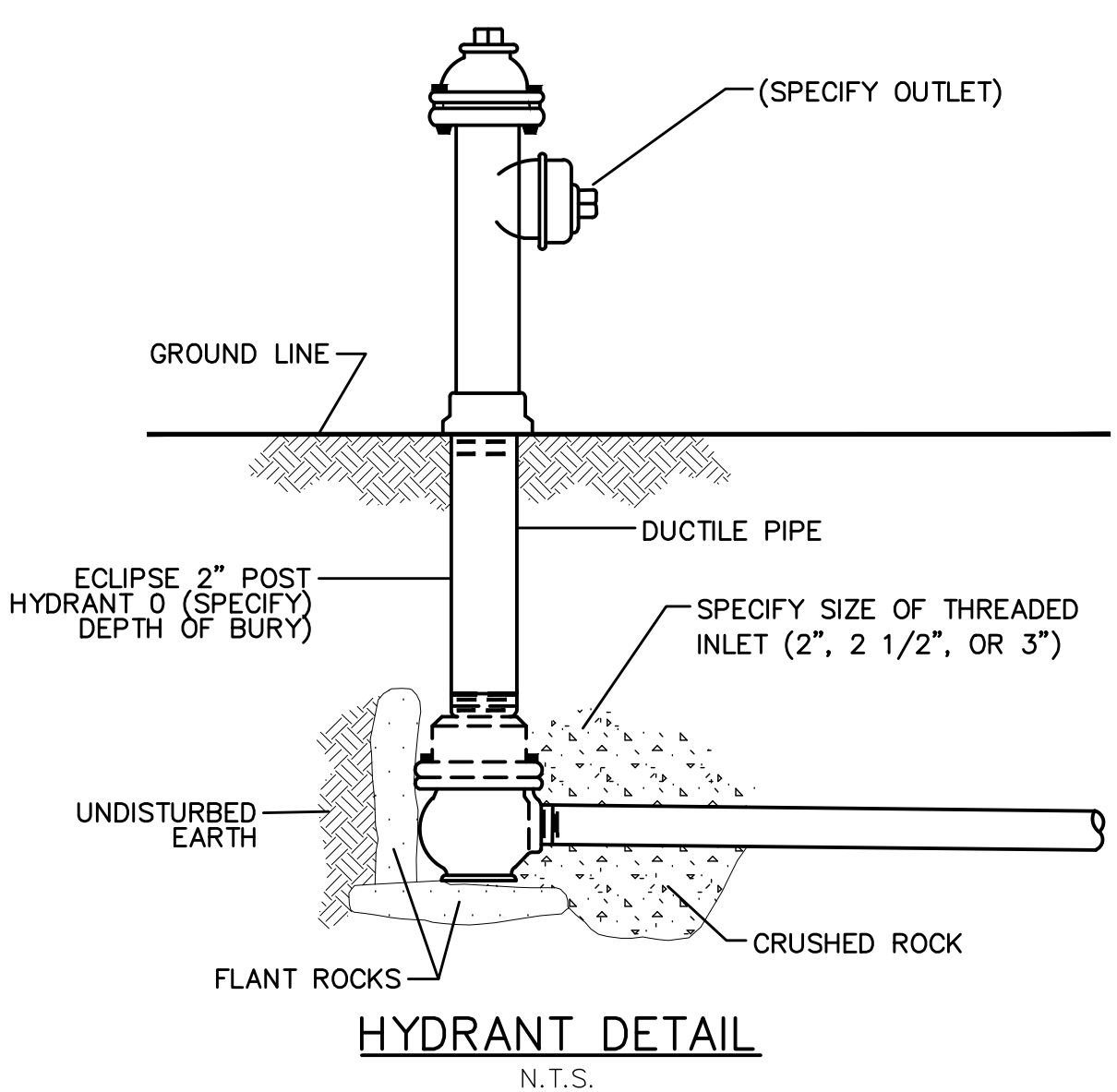
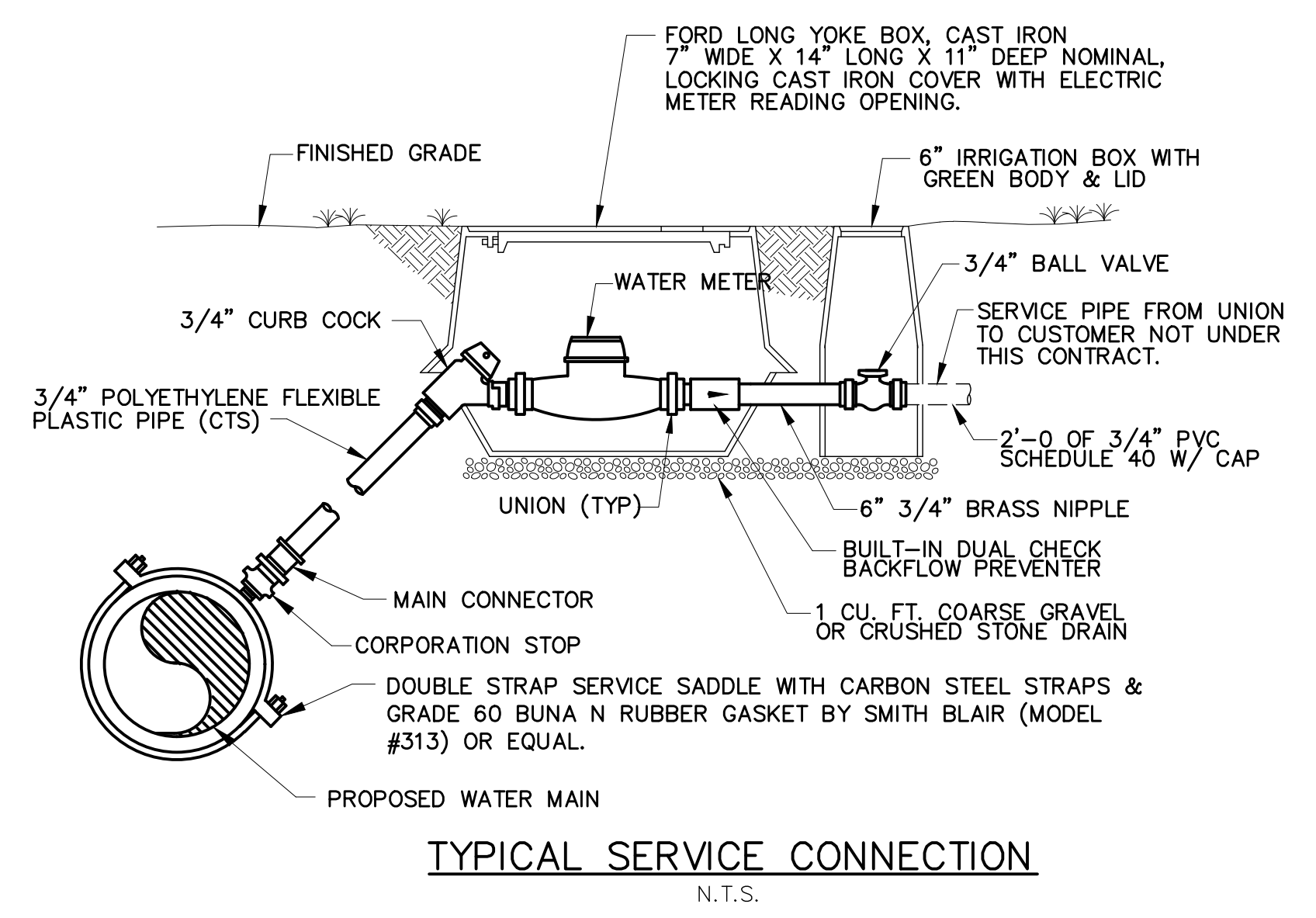


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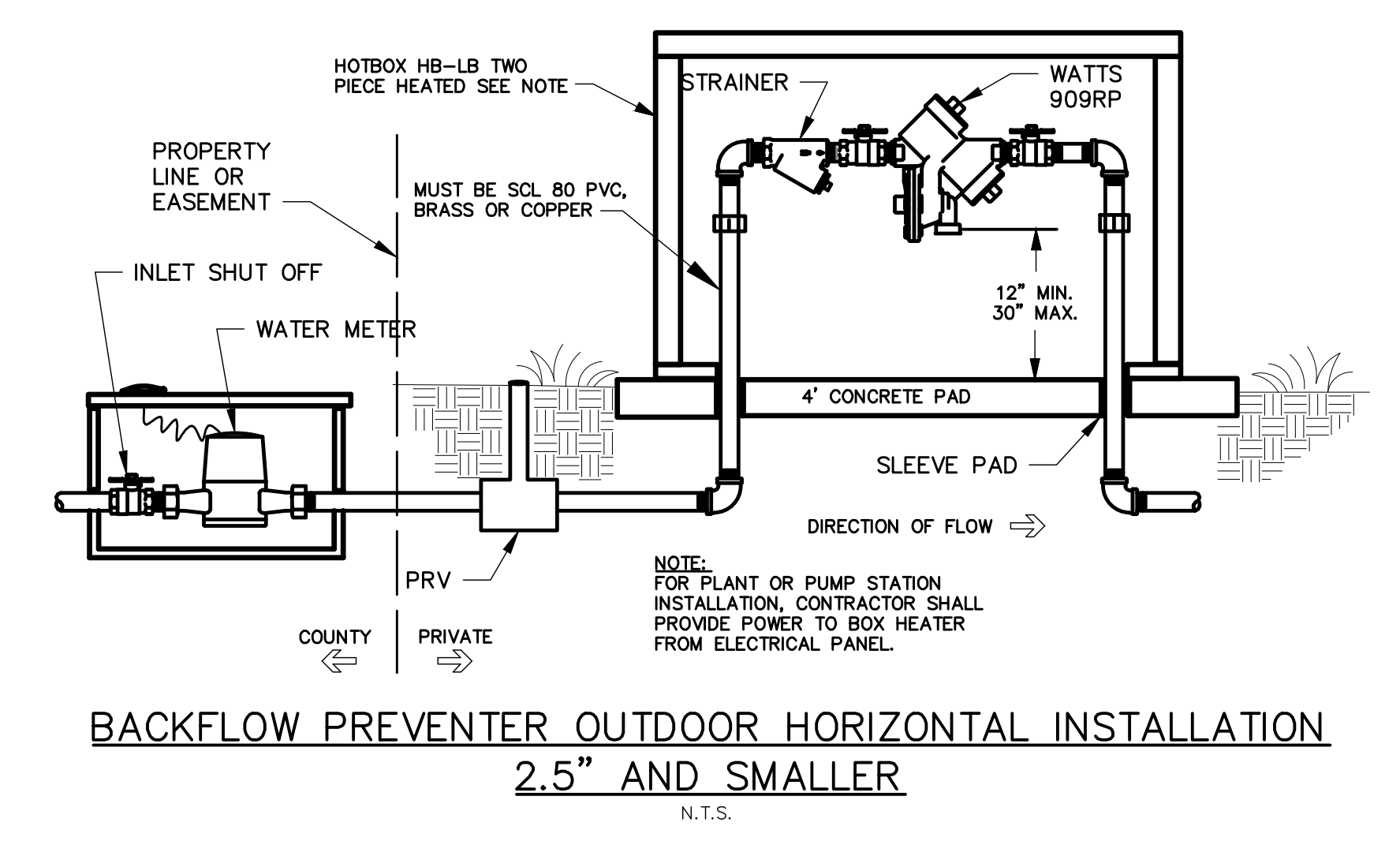
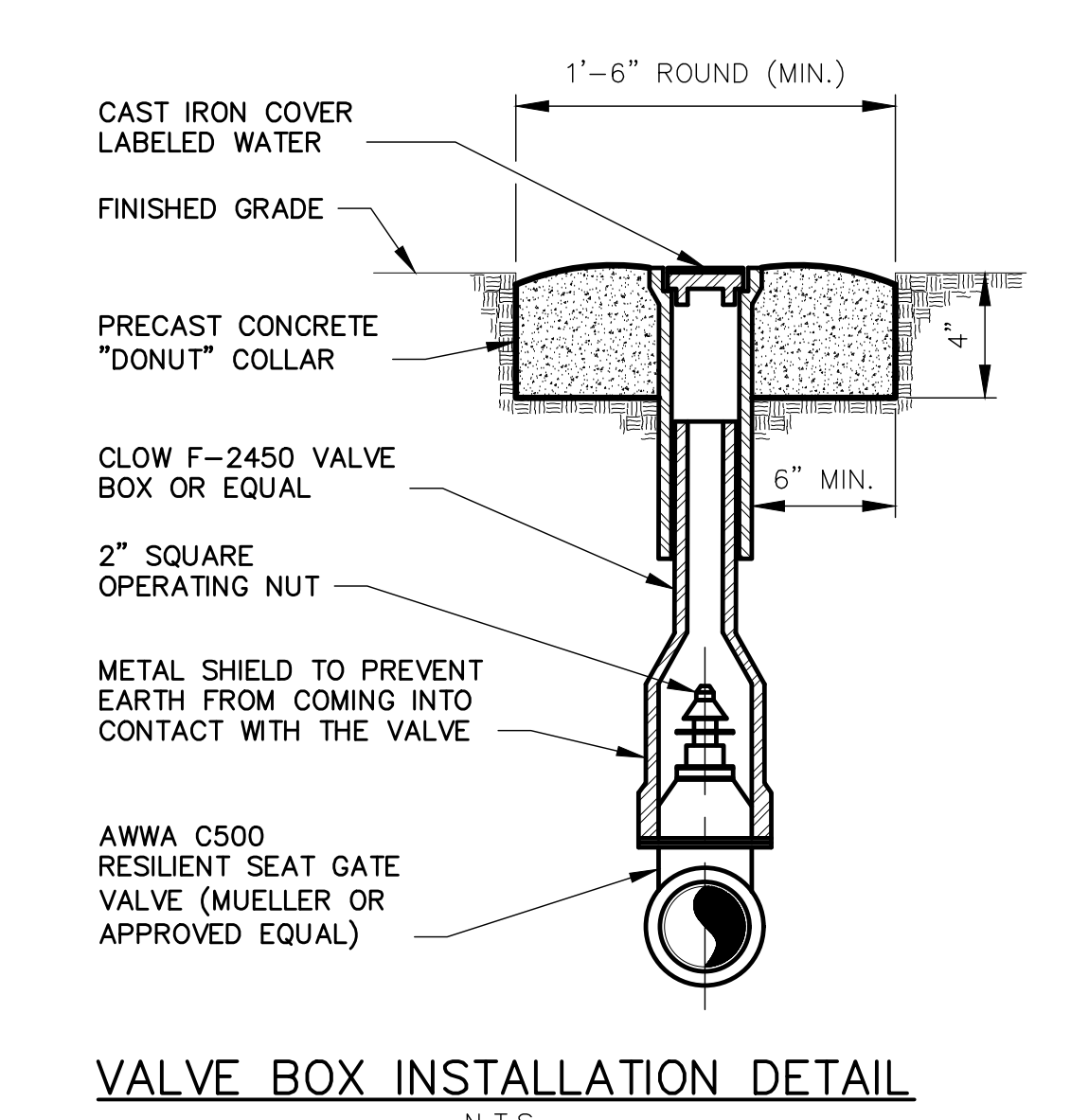
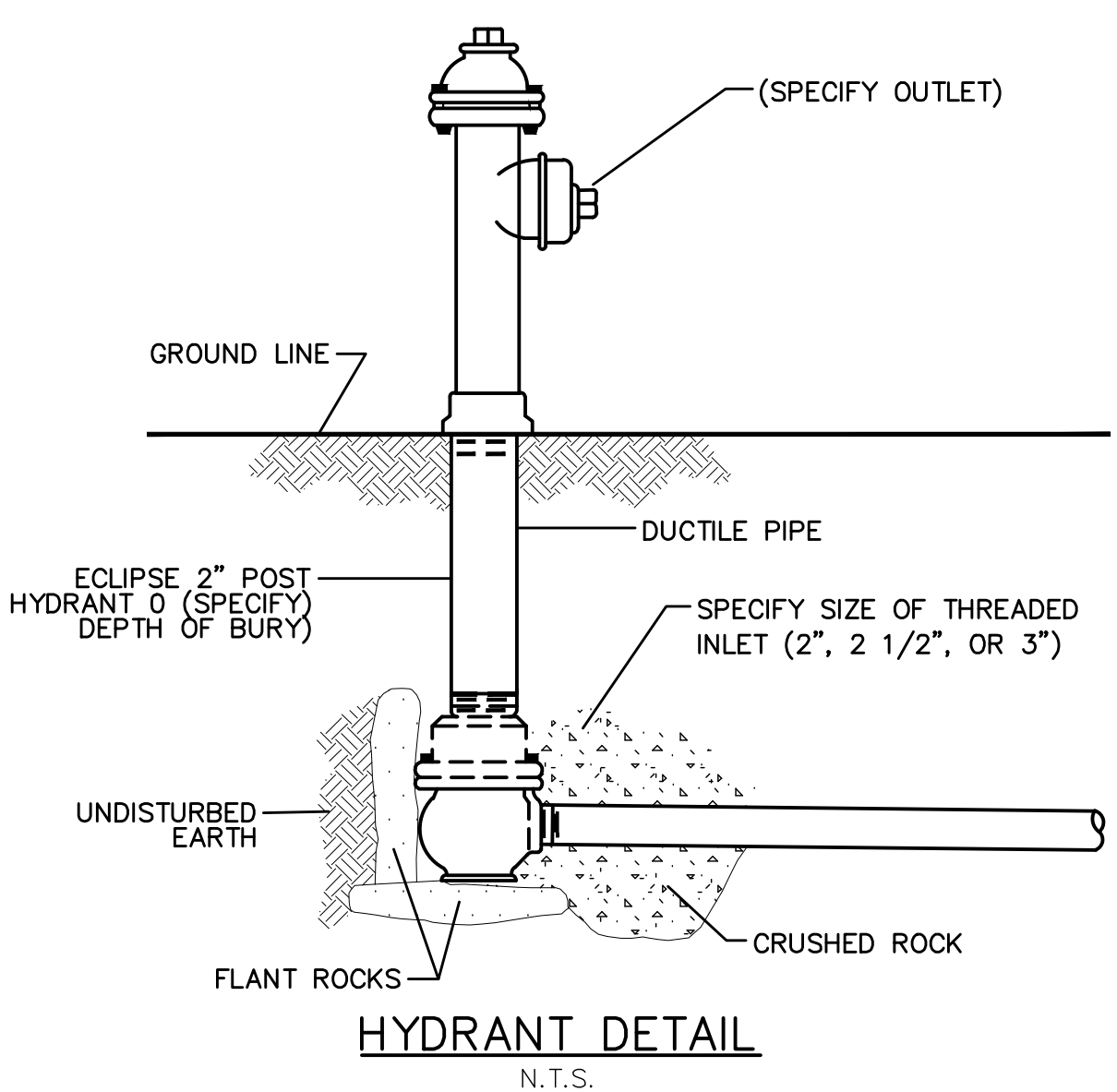
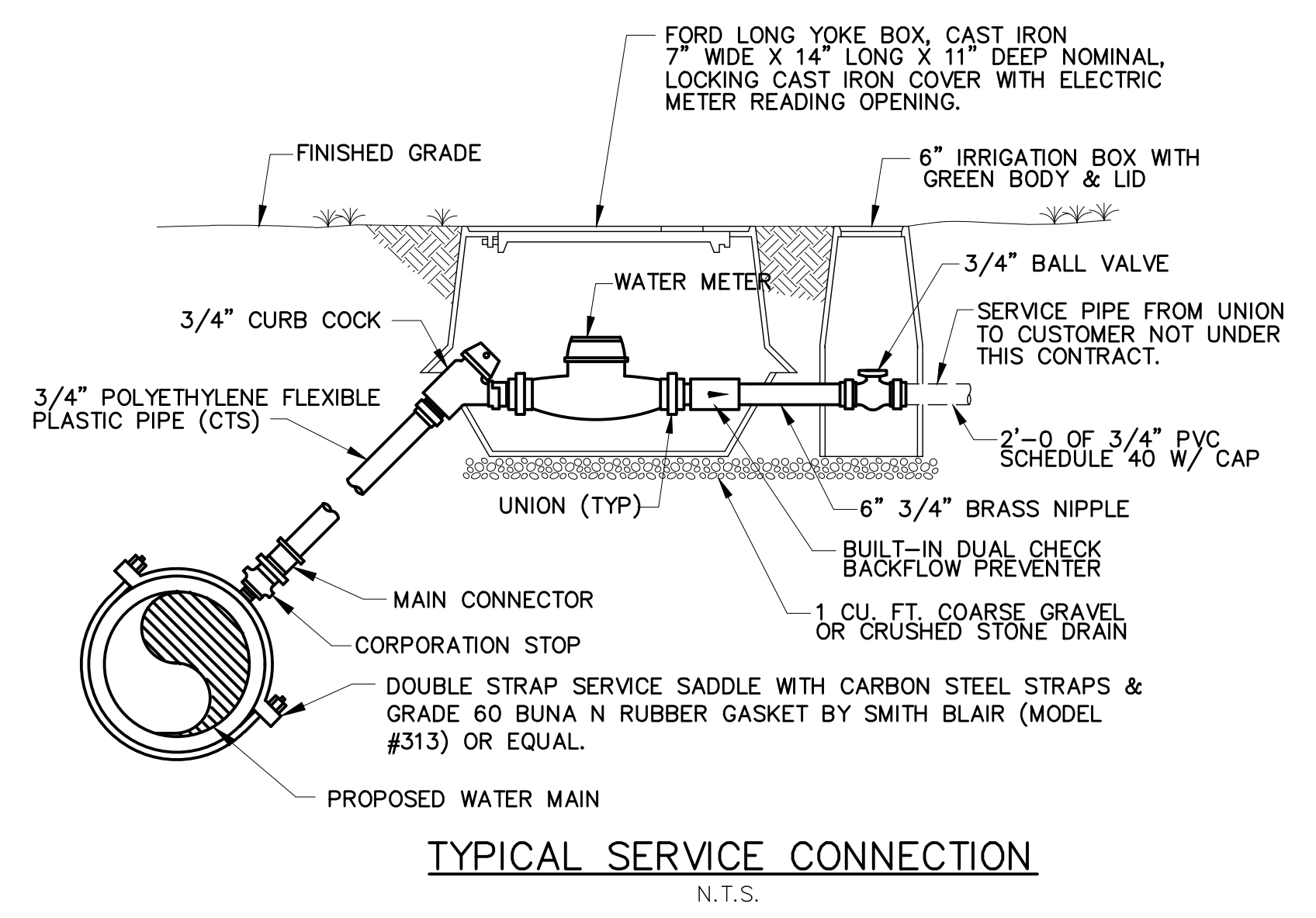


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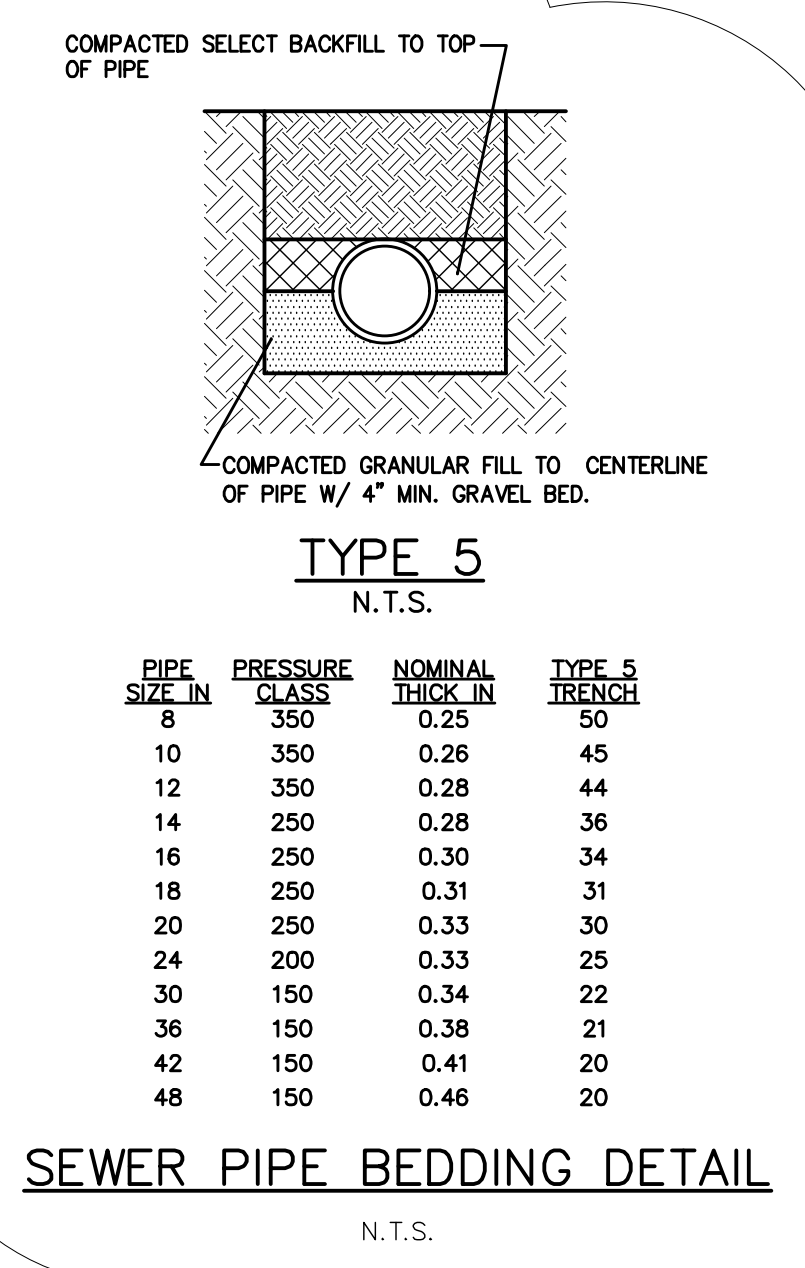
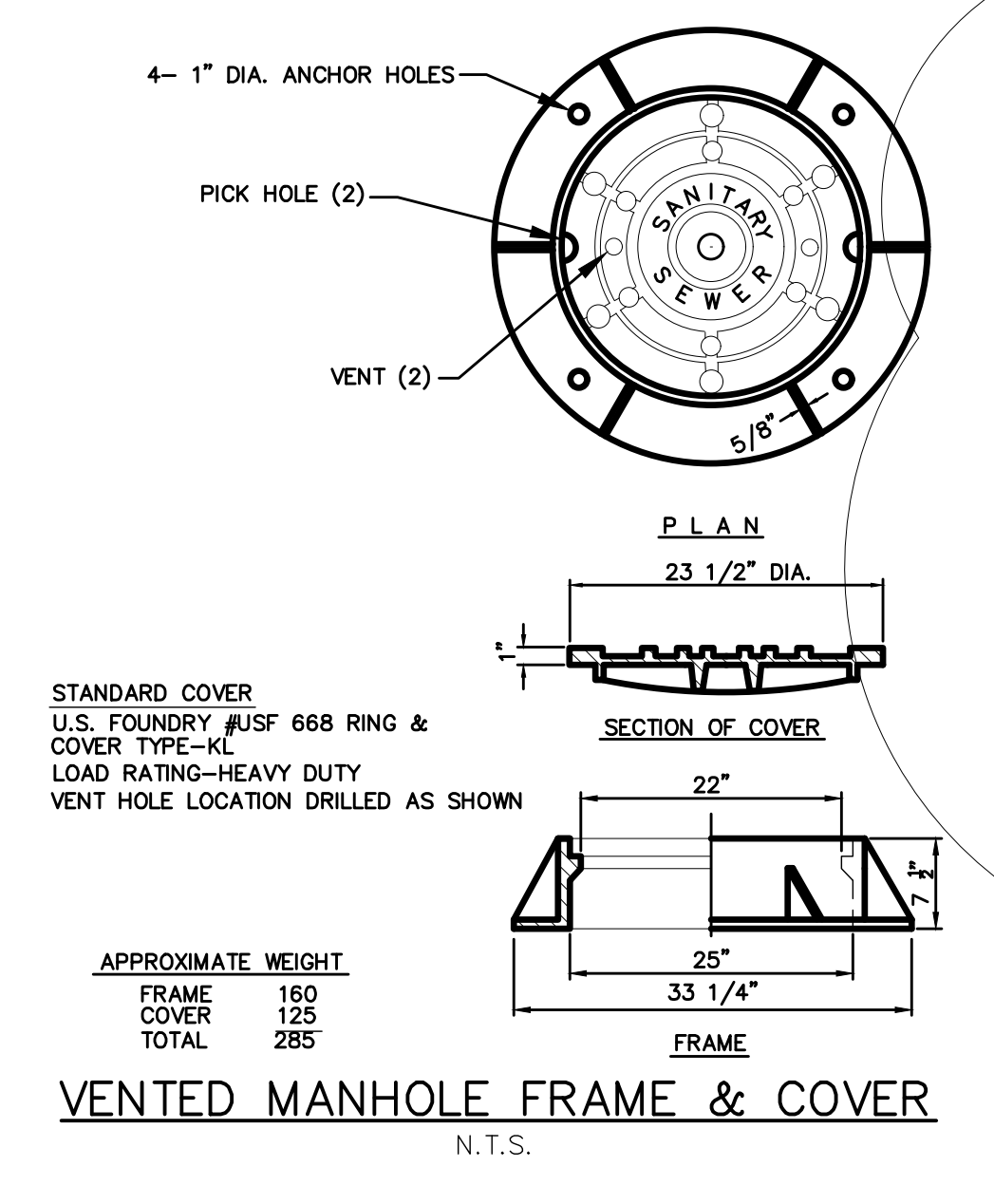
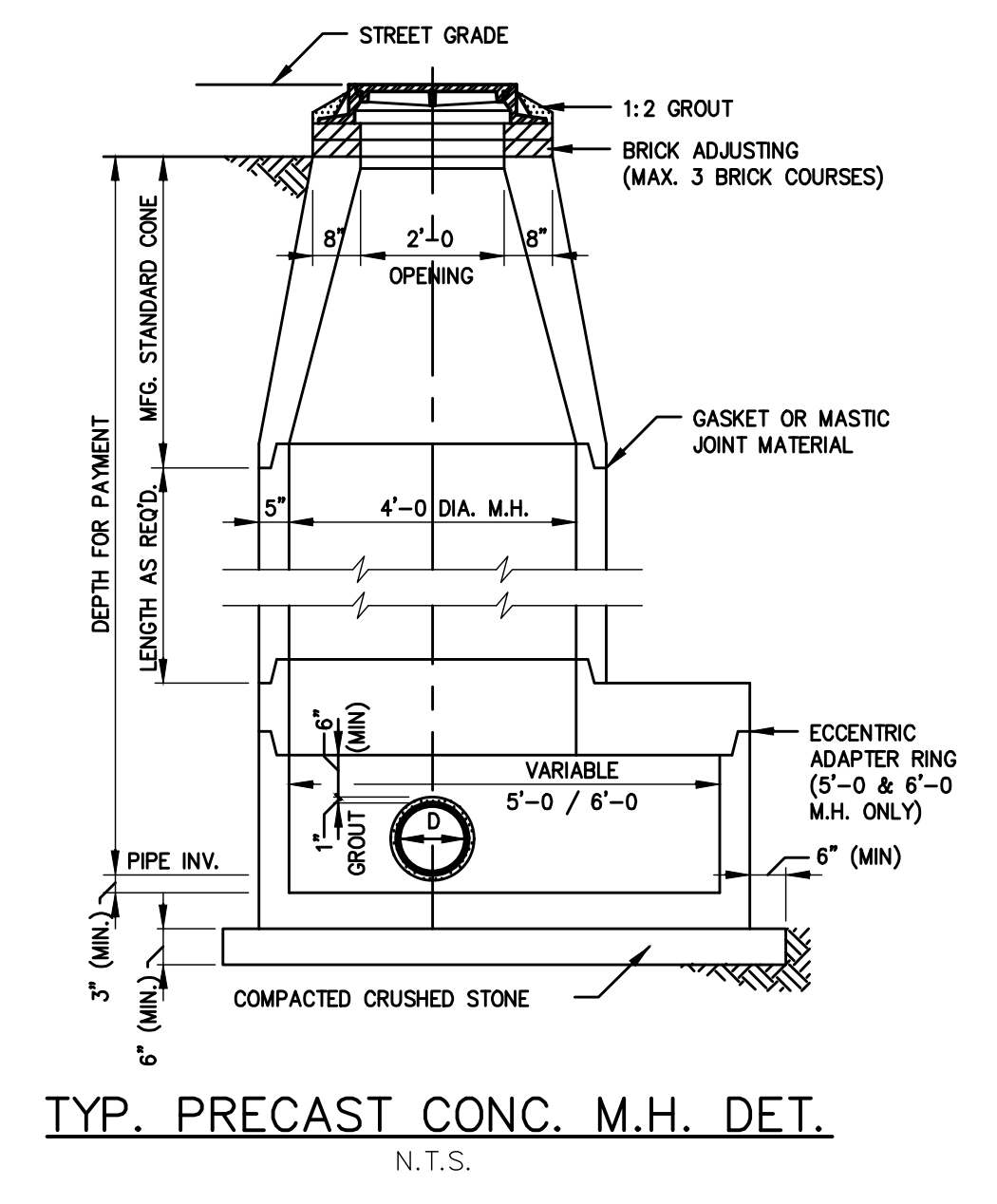
SHEET NUMBER
E-6



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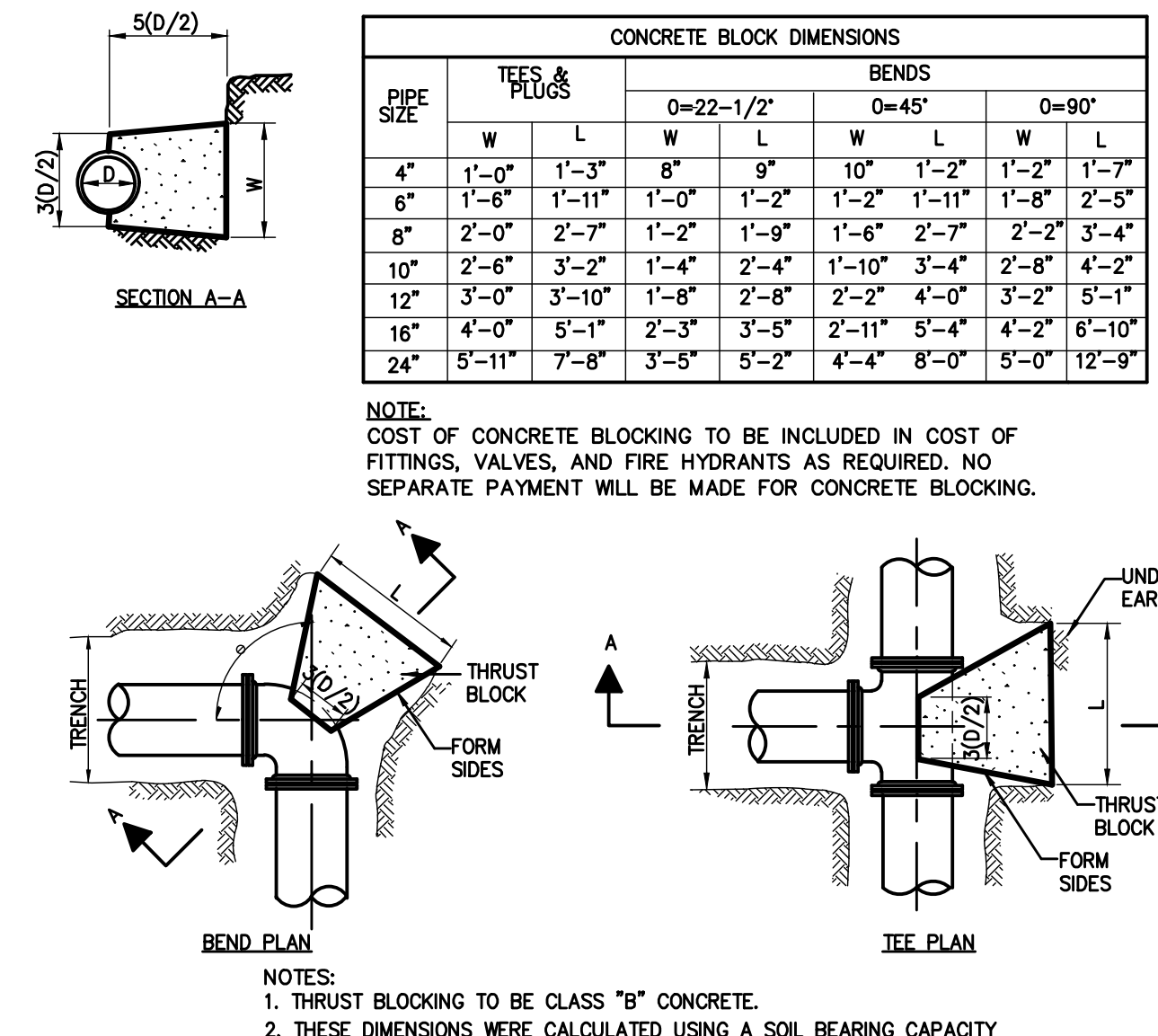
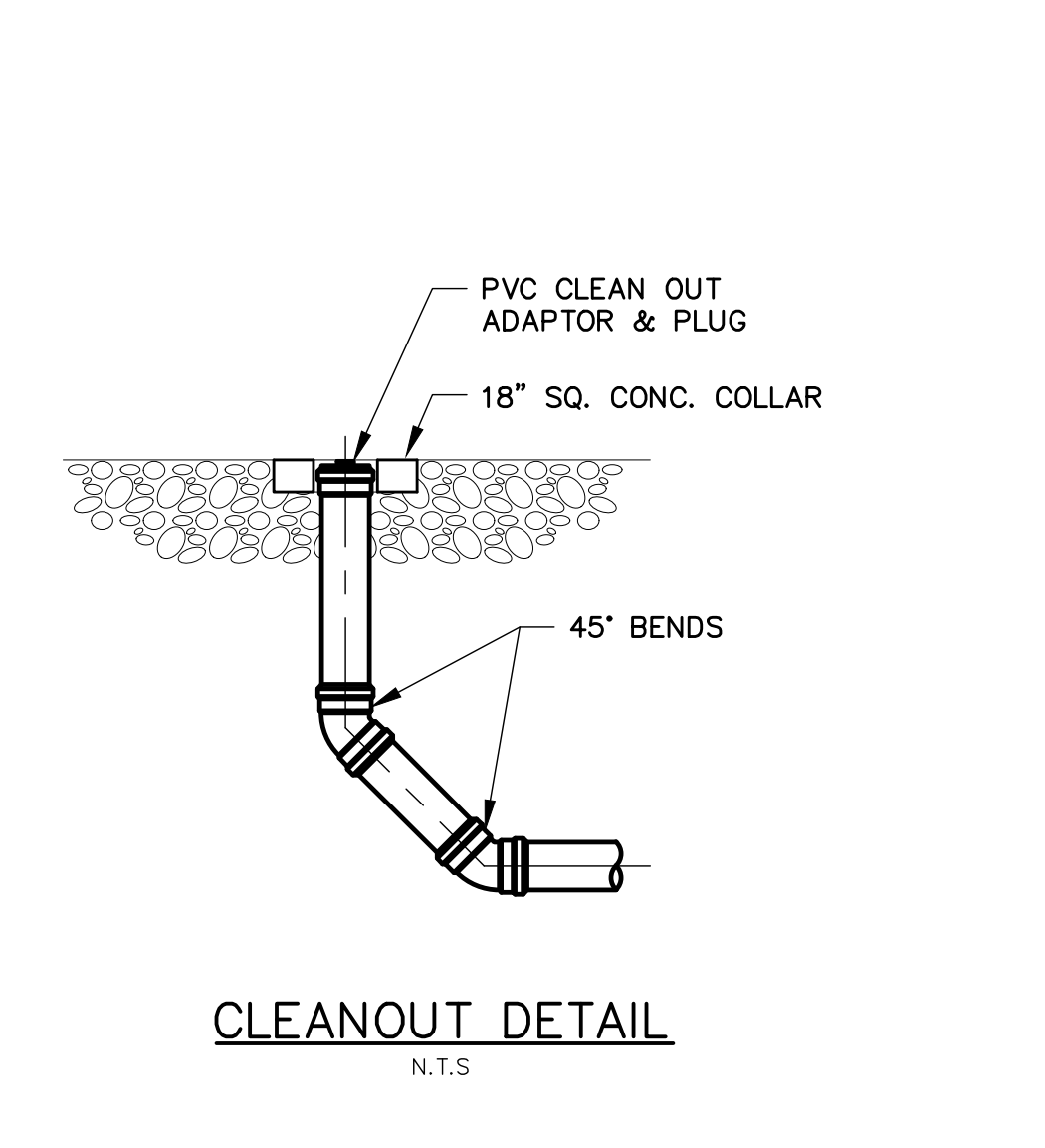
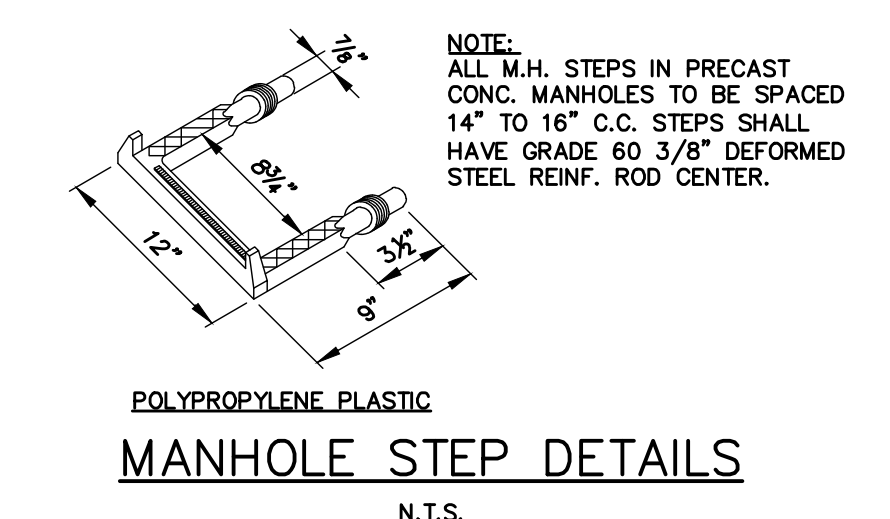
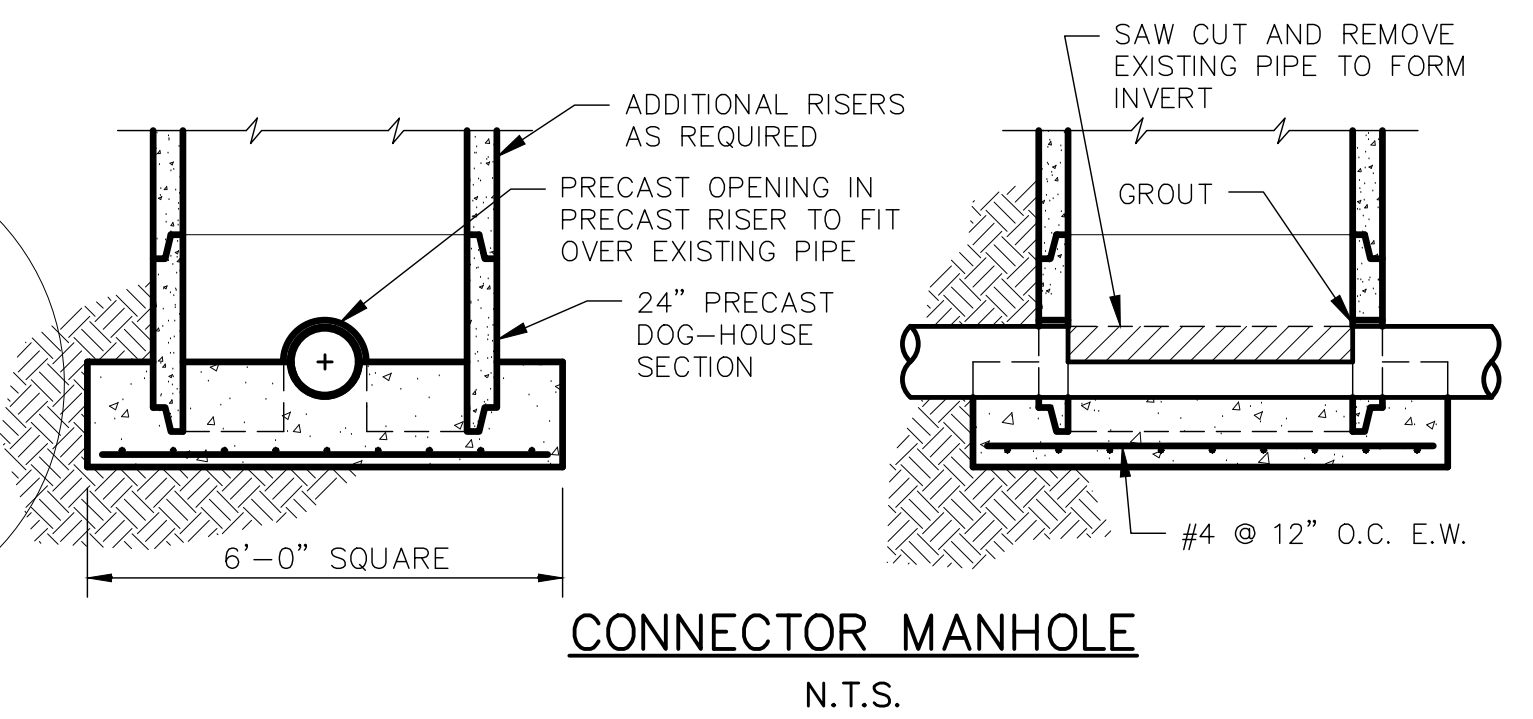


NOTE:
M.H. COVERS TO BE SET AT GRADE IN ROADWAYS, ROAD SHOULDERS AND RESIDENTIAL YARDS. ALL OTHER M.H. COVERS TO EXTEND 1'-0" ABOVE GRADE EXCEPT WHERE NOTED OTHERWISE ON CONTRACT PLANS.



TYPE 5
N.T.S.

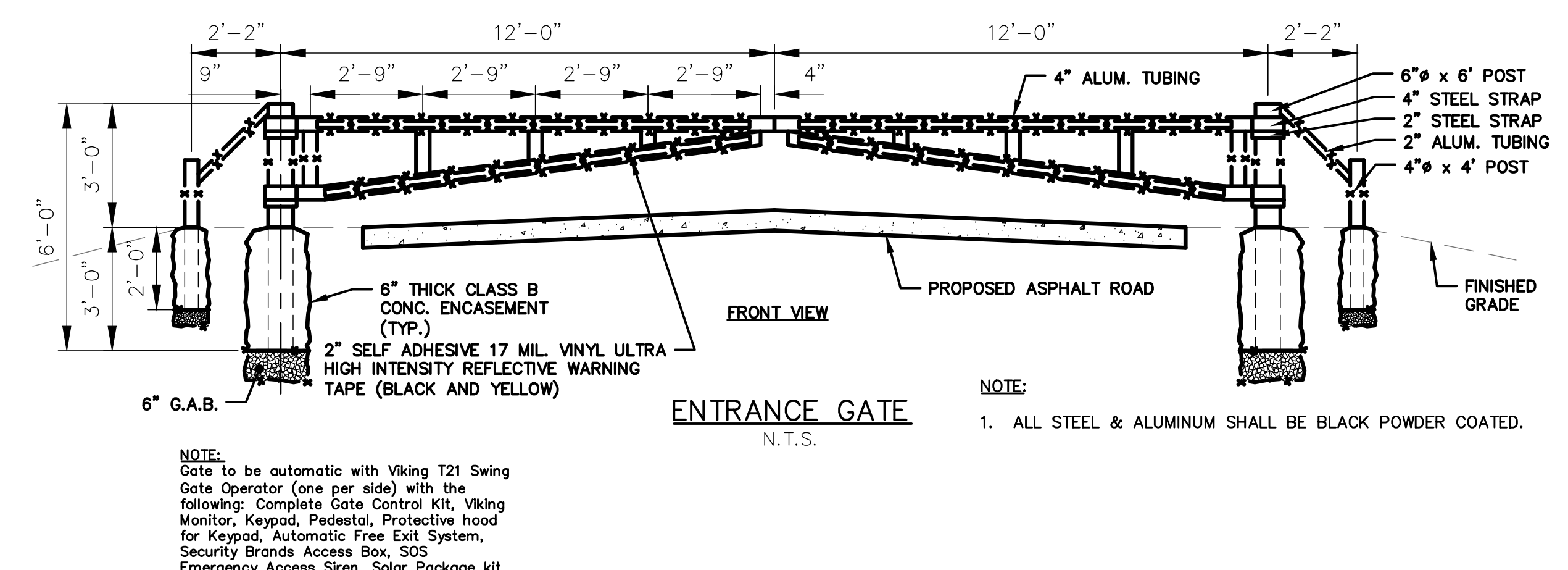
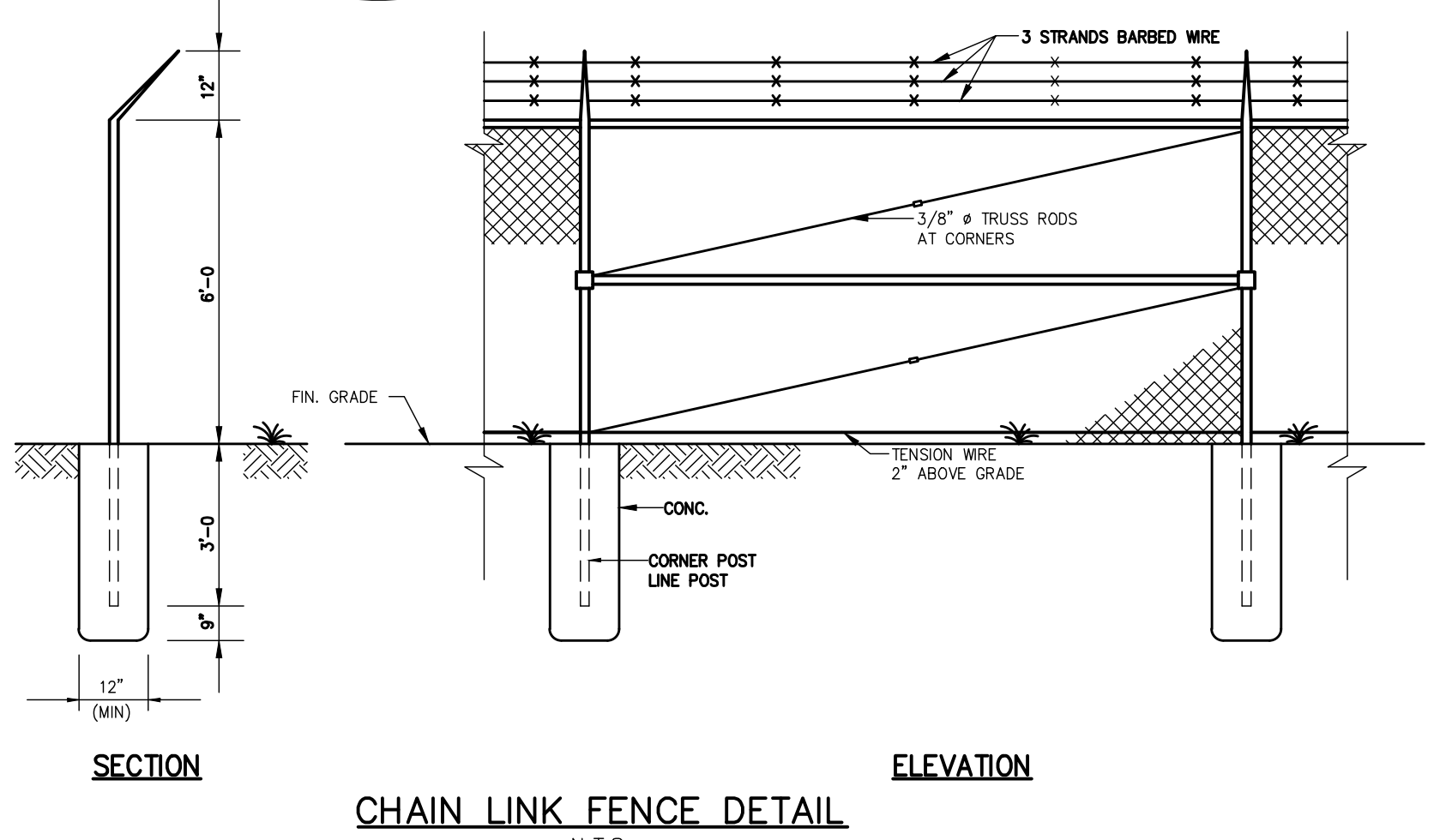
PIPE SIZE IN	PRESSURE CLASS	NOMINAL THICK IN	TYPE 5 TRENCH
8	10	0.26	45
10	12	0.28	44
12	14	0.28	36
14	16	0.30	34
16	18	0.31	31
18	20	0.33	30
20	24	0.33	25
24	30	0.34	22
30	36	0.38	21
42	48	0.41	20
48	54	0.46	20



CONCRETE BLOCK DIMENSIONS

PIPE SIZE	TEES & PLUGS				BENDS			
	W	L	W	L	W	L	W	L
4"	1'-0"	1'-3"	8"	9"	10"	1'-2"	1'-3"	1'-3"
6"	1'-6"	1'-11"	1'-0"	1'-2"	1'-2"	1'-11"	1'-8"	2'-5"
8"	2'-0"	2'-7"	1'-2"	1'-9"	1'-6"	2'-7"	2'-2"	3'-4"
10"	2'-6"	3'-2"	1'-4"	2'-4"	1'-10"	3'-4"	2'-8"	4'-2"
12"	3'-0"	3'-10"	1'-8"	2'-8"	2'-2"	4'-0"	3'-2"	5'-1"
16"	4'-0"	5'-1"	2'-3"	3'-8"	2'-11"	5'-4"	4'-2"	6'-10"
24"	5'-11"	7'-8"	3'-5"	5'-2"	4'-4"	8'-0"	5'-0"	12'-9"

NOTE: COST OF CONCRETE BLOCKING TO BE INCLUDED IN COST OF FITTINGS, VALVES, AND FIRE HYDRANTS AS REQUIRED. NO SEPARATE PAYMENT WILL BE MADE FOR CONCRETE BLOCKING.

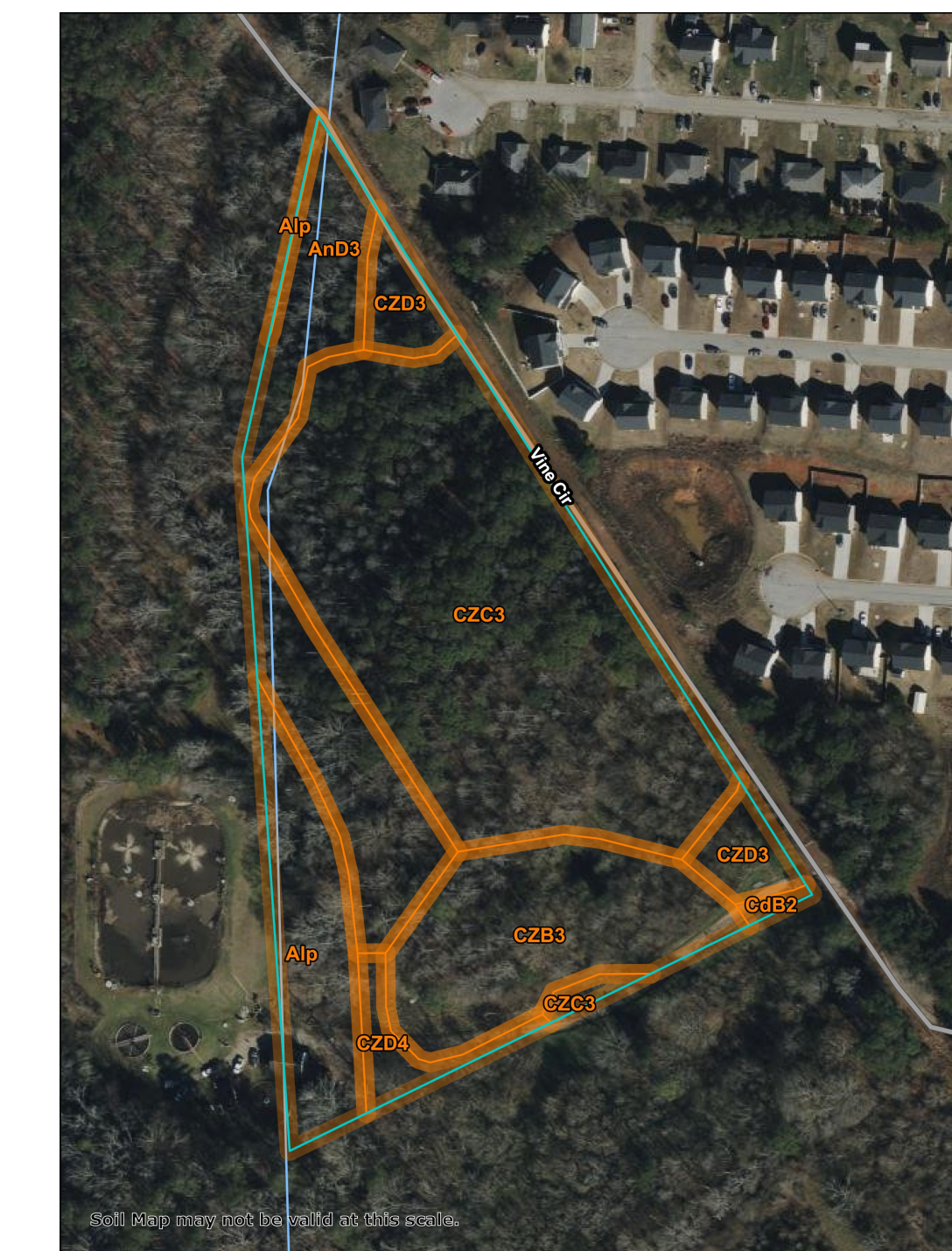


SOIL EROSION & SEDIMENT CONTROL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION & SEDIMENT CONTROL MEASURES & PRACTICES PRIOR TO, OR CONCURRENT WITH, L&I DISTURBING ACTIVITIES.
2. 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 & 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. ANY SLOPES 3:1 & GREATER SHALL BE COVERED WITH EROSION CONTROL MATTING &/OR BLANKETS.
5. PRIOR TO REMOVING BMP'S, CONTRACTOR SHALL MEET ONSITE WITH THE COUNTY TO ENSURE FINAL STABILIZATION IS COMPLETE.
6. PRIOR TO FILING AN NPDES NOTICE OF TERMINATION, THE CONTRACTOR SHALL MEET ONSITE WITH THE COUNTY TO ENSURE THAT ALL SILT FENCE & TEMPORARY BMP'S HAVE BEEN REMOVED.
7. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSH L&I BUFFER AS MEASURED FROM THE JURISDICTIONAL LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES & PERMITS. SEE NOTE 15 ON SHEET 5.

LEGEND

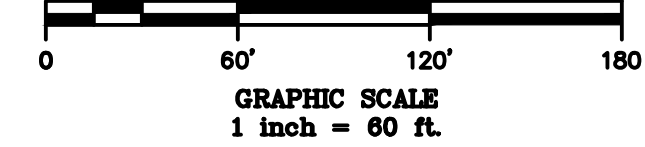
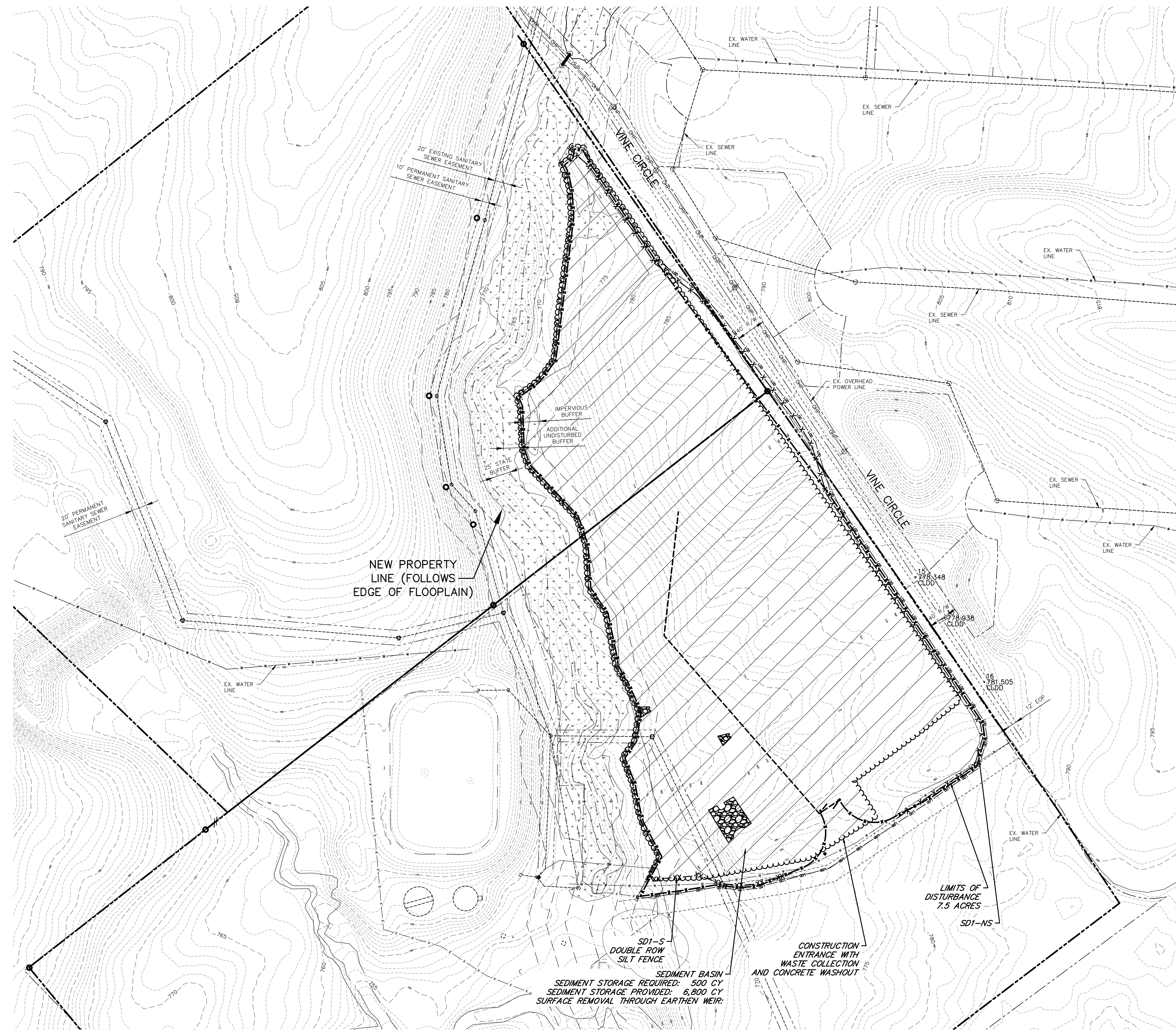
	EXISTING	PROPOSED
STRUCTURE	[Symbol]	[Symbol]
ROADWAY	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
PROPERTY LINE	[Symbol]	[Symbol]
MINIMUM BUILDING LINE BUFFER	[Symbol]	[Symbol]
CONTOUR	[Symbol]	[Symbol]
STORM SEWER LINE	[Symbol]	[Symbol]
SEWER LINE & SERV.	[Symbol]	[Symbol]
FORCE MAIN	[Symbol]	[Symbol]
FIRE PROTECTION	[Symbol]	[Symbol]
WOODS LINE	[Symbol]	[Symbol]
DRAINAGE DITCH	[Symbol]	[Symbol]
CONSTRUCTION LIMITS	[Symbol]	[Symbol]
FLOW DIRECTION	[Symbol]	[Symbol]



SOIL MAP

Map Unit Symbol	Map Unit Name	Acres in AGI	Percent of AGI
Ap	Chickasha, Citronia, and Toccoa soils, 0 to 2 percent slopes, frequently flooded	1.0	9.9%
AHD3	Aprling sandy clay loam, 10 to 15 percent slopes, severely eroded	1.7	17.5%
C1R2	Ceol coarse sandy loam, 2 to 6 percent slopes, eroded	0.0	0.4%
C2B3	Ceol sandy clay loam, 2 to 6 percent slopes, severely eroded	1.6	16.3%
C2C3	Ceol sandy clay loam, 6 to 10 percent slopes, severely eroded	4.7	48.4%
C2D3	Ceol sandy clay loam, 10 to 15 percent slopes, severely eroded	0.5	5.1%
C2D4	Ceol-Gullied sand complex, 10 to 15 percent slopes	0.2	2.4%
Totals for Area of Interest		9.8	100.0%

SOIL LEGEND



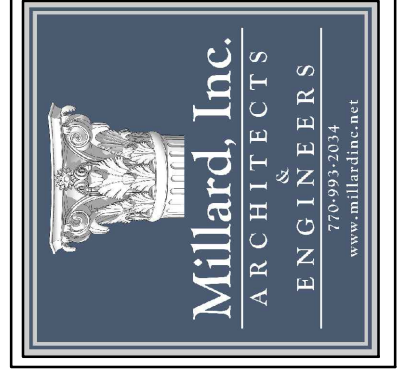
PROJECT NUMBER	2512
DATE	12/09/25
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REVISIONS	

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
INTERMEDIATE SESC PLAN
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025



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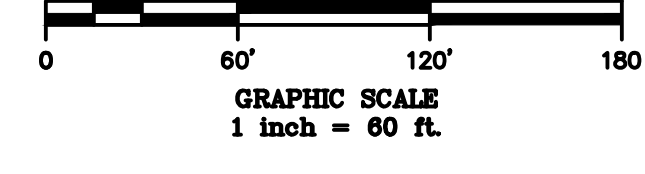
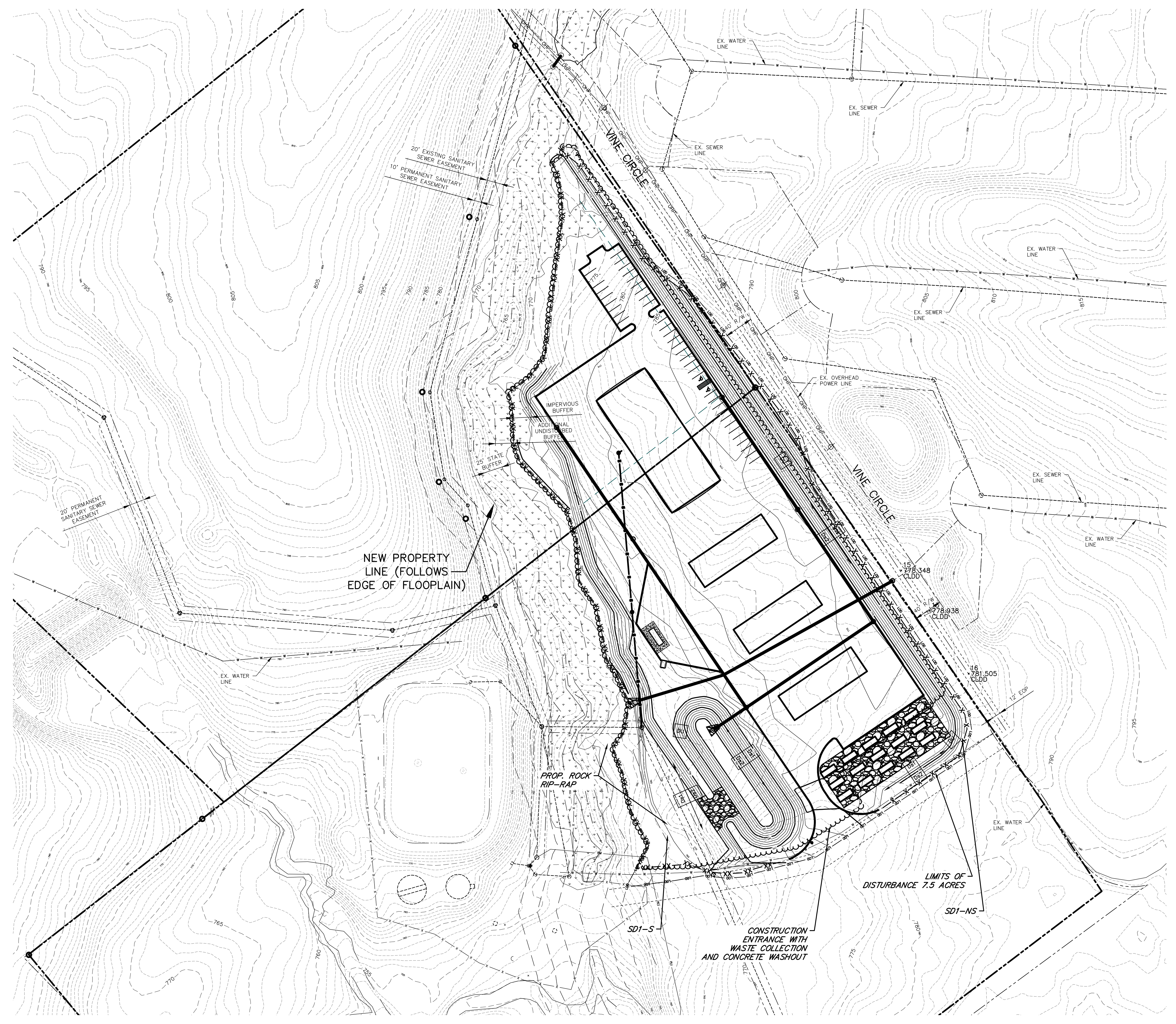
SHEET NUMBER

E-9

SOIL EROSION & SEDIMENT CONTROL NOTES:

1. SEE INITIAL SESC PLAN.

	EXISTING	PROPOSED
STRUCTURE	[Symbol]	[Symbol]
ROADWAY	[Symbol]	[Symbol]
ROLL OFF GRAVEL	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
PROPERTY LINE	[Symbol]	[Symbol]
MINIMUM BUILDING LINE BUFFER	[Symbol]	[Symbol]
CONTOUR	[Symbol]	[Symbol]
STORM SEWER LINE	[Symbol]	[Symbol]
SEWER LINE & SERV.	[Symbol]	[Symbol]
FORCE MAIN	[Symbol]	[Symbol]
FIRE PROTECTION	[Symbol]	[Symbol]
WOODS LINE	[Symbol]	[Symbol]
DRAINAGE DITCH	[Symbol]	[Symbol]
CONSTRUCTION LIMITS	[Symbol]	[Symbol]
FLOW DIRECTION	[Symbol]	[Symbol]



Know what's below.
Call before you dig.

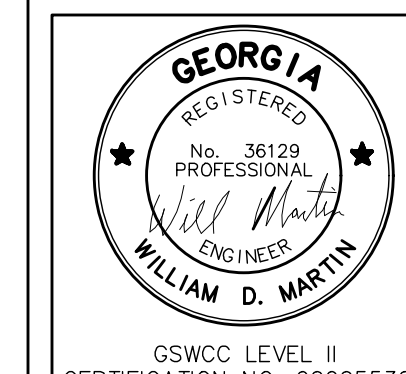
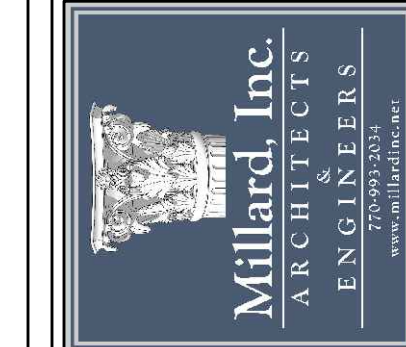
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PROJECT NUMBER	2512
DATE	12/09/25
DRAWN BY	NES
APPROVED BY	
REVISIONS	

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
FINAL SESC PLAN
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025



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GSWCC LEVEL II
CERTIFICATION NO. 000055308

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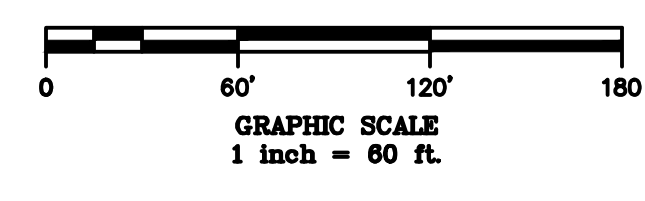
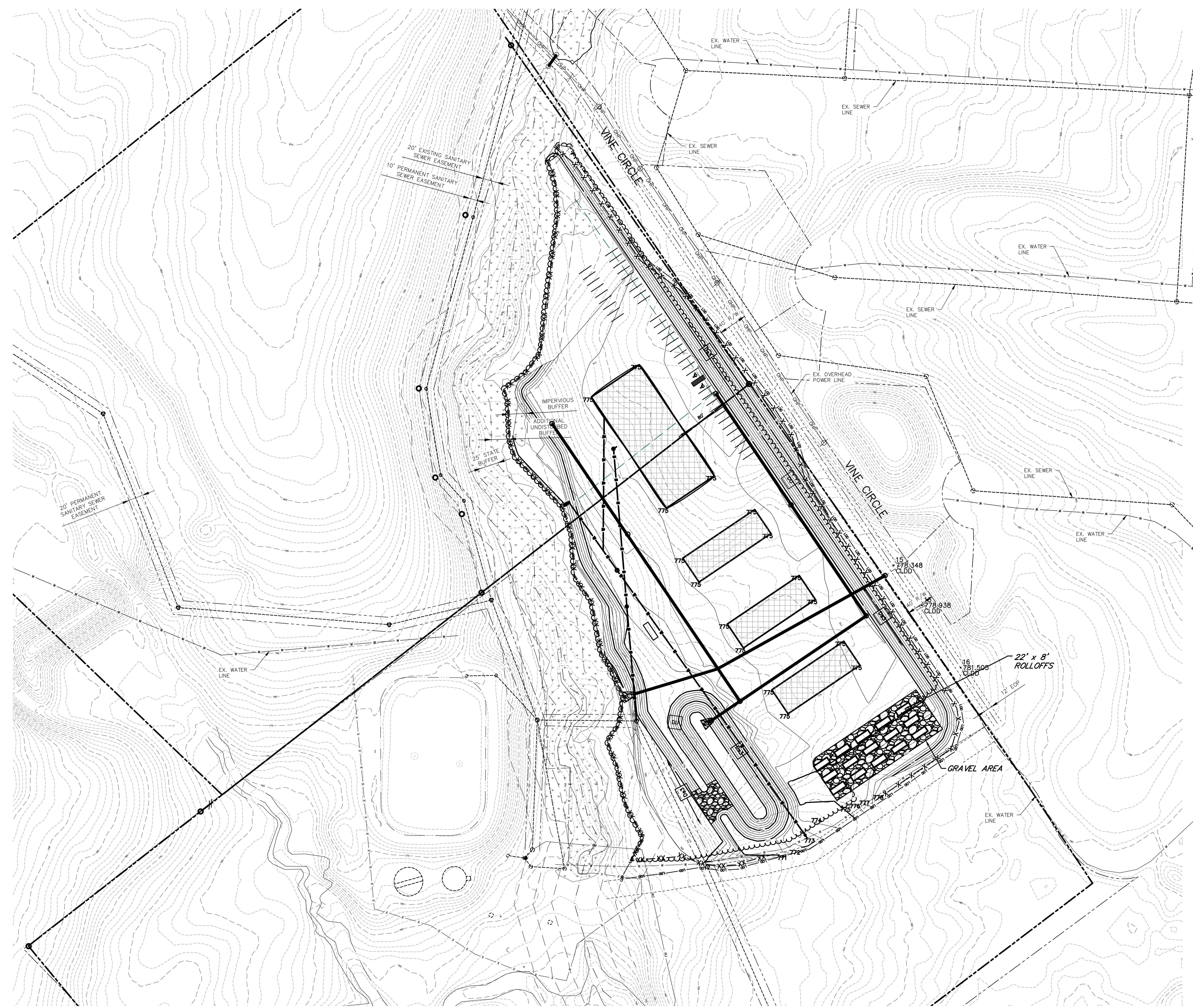
SOIL EROSION & SEDIMENT CONTROL NOTES:

- SEE INITIAL SESC PLAN.
- PRIOR TO FILING AN NPDES NOTICE OF TERMINATION, THE DEVELOPER SHALL MEET ONSITE WITH THE CITY TO ENSURE THAT ALL SILT FENCE & TEMPORARY BMP'S HAVE BEEN REMOVED.

	EXISTING	PROPOSED
STRUCTURE		
ROADWAY		
FENCE		
PROPERTY LINE		
MINIMUM BUILDING LINE BUFFER		
CONTOUR		
STORM SEWER LINE		
SEWER LINE & SERV.		
FORCE MAIN		
FIRE PROTECTION		
WOODS LINE		
DRAINAGE DITCH		
CONSTRUCTION LIMITS		
FLOW DIRECTION		

STORM DRAIN OUTLET DATA

STRUCTURE LOCATION	D _o	Q=FT ³ /SEC	V=FT/SEC	d50 (FT.)	L _o (FT.)	W ₁ (FT.)	W ₂ (FT.)	TAIL WATER	D (FT.)
X-1. STA. 0+00	18"	50	28	1.5	60	5	65	<.50	0.50
X-2. STA. 0+00	24"	85	27	1.5	70	6	75	<.50	0.50



Know what's below.
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EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST STAND-ALONE CONSTRUCTION PROJECT NARRATIVE

- THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED (2026), PERMIT IVD.1 PAGE 27 PROVIDED ON SHEETS 13 AND 14.
- LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE AND SEAL OF THE CERTIFIED DESIGN PROFESSIONAL, SIGNATURE, SEAL, AND LEVEL II NUMBER MUST BE ON EACH SHEET PERTAINING TO ES&PC PLAN OR THE PLAN WILL NOT BE REVIEWED. THE LEVEL II CERTIFICATION MUST BE ISSUED TO THE DESIGN PROFESSIONAL, AFTER COMPLETION OF A GSWCC APPROVED COURSE, AND WHOSE SIGNATURE AND SEAL ARE ON THE PLAN. SHOWN ON ALL SHEETS WHERE APPLICABLE.
- LIMIT OF DISTURBANCE SHALL BE LESS THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE. IF GAEPD APPROVES THE REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME, THE PLAN MUST INCLUDE THE GA EPD APPROVAL LETTER AND COMPLETED APPENDIX 1 OF THIS CHECKLIST WITH AT LEAST 4 OF THE CHOSEN BMPs. PERMIT IVD.3.PAGE 28 THIS PROJECT IS LESS THAN 50 ACRES.
- THE NAME AND PHONE NUMBER OF 24-HOUR CONTACT RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROLS: PERMIT II.B.1.c PAGE 12
24-HOUR CONTACT: **JAMES LINK (678) 658-8244**
- PROVIDE NAME, ADDRESS, EMAIL ADDRESS, AND PHONE NUMBER OF PRIMARY PERMITTEE. PERMIT II.B.1.b PAGE 12
UPON CONTRACT AWARD BY OWNER, CONTRACTOR TO FILE NOI ON GEOS. CONTRACTOR TO COMPLETE THE FOLLOWING:
PRIMARY PERMITTEE: _____
ADDRESS: _____
EMAIL: _____
TELEPHONE: _____
- NOTE TOTAL AND DISTURBED ACREAGE OF THE PROJECT OR PHASE UNDER CONSTRUCTION. PERMIT IVD.2.c PAGE 27
THE TOTAL ACREAGE BETWEEN TWO PARCELS IS APPROXIMATELY 40.69 ACRES. TOTAL DISTURBED ACRES IS APPROXIMATELY 7.50 ACRES.
- PROVIDE THE GPS LOCATIONS OF THE CONSTRUCTION EXIT FOR THE SITE. GIVE THE LATITUDE AND LONGITUDE IN DECIMAL DEGREES. PERMIT II.B.1.a PAGE 12
THIS CONSTRUCTION EXIT IS AT LAT: 33.645542° N, LONG: -83.707090° W.
- INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS.
INITIAL DATE AND REVISION DATES, IF APPROPRIATE, ARE SHOWN ON ALL SHEETS IN THE TITLE BLOCK
- DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY AND EXISTING SITE CONDITIONS. PERMIT IVD.2.a PAGE 27 THE PROJECT WILL INVOLVE THE CONSTRUCTION FOR A NEW PUBLIC WORKS FACILITY FOR THE CITY OF SOCIAL CIRCLE, WITH WATER AND SEWERAGE SYSTEM IMPROVEMENTS ALONG VINE CIRCLE. IMPROVEMENTS INCLUDE INSTALLING 425 LINEAR FEET OF PVC WATER LINE AND 230 LINEAR FEET OF PVC SEWER LINE, WATER AND SEWER ASERVICES, AND APPURTENANCES. ALL DISTURBED AREAS SHALL BE STABILIZED AND GRASSED PRIOR TO COMPLETION OF CONSTRUCTION.
- PROVIDE VICINITY MAP SHOWING SITE'S RELATION TO SURROUNDING AREAS, INCLUDE DESIGNATION OF SPECIFIC PHASE, IF NECESSARY. PERMIT IVD.2.e PAGE 27
SEE EXISTING SITE PLAN SHEET 2 AND DRAINAGE BASIN MAP SHEET 17.
- IDENTIFY THE PROJECT RECEIVING WATERS AND DESCRIBE ALL SENSITIVE ADJACENT AREAS INCLUDING STREAMS, LAKES, RESIDENTIAL AREAS, WETLANDS, MARSHALL, ETC. WHICH MAY BE AFFECTED. PERMIT IVD.3.PAGE 27
THE INITIAL RECEIVING WATERS FOR THIS PROJECT ARE ROADSIDE DITCHES THAT EVENTUALLY DISCHARGE TO THE DETENTION AREA LOCATED BEHIND THE OUL-DE-SAC OF DOVE TREE LANE. TRIBUTARIES WILL THEN REACH LITTLE RIVER. ADJACENT AREAS INCLUDE WOODED AND RESIDENTIAL DEVELOPMENTS.
- 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 20 OF THE PERMIT. SEE LICENSED PROFESSIONAL'S CERTIFICATIONS THIS SHEET.
- * 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 20 OF THE PERMIT. SEE LICENSED PROFESSIONAL'S CERTIFICATIONS THIS SHEET.

LICENSED PROFESSIONAL CERTIFICATION

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

WILLIAM D. MARTIN, P.E. _____ DATE
GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 36129
GSWCC LEVEL II CERTIFICATION NO. 553006
EXPIRES 8/22/2026

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION: _____
I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.
GSWCC LEVEL II DESIGN PROFESSIONAL _____ CERTIFICATION # _____
INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN.

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

- 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 OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS." SEE PART IV.(i) - (iv) ON PAGES 19-24 OF THE PERMIT AND SHOW UNDER ES&PC NOTES.
- EXCEPT AS PROVIDED IN PART IV.(iii) 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. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING LAND-DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM; CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER; AND ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED: (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM CROSSINGS FOR SEWER LINES.
- 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 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 THE GENERAL VARIANCE 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 AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP 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 THE FOLLOWING LAND-DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM; CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER; AND ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED: (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM CROSSINGS FOR SEWER LINES;
- EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO PART IV.(i), AND (iv), 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. BETWEEN THE TIME FINAL STABILIZATION OF THE SITE IS ACHIEVED AND UPON THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED.
- PROVIDE A DESCRIPTION OF ANY BUFFER ENCROACHMENTS AND INDICATE WHETHER A BUFFER VARIANCE IS REQUIRED. A PERPENDICULAR CROSSING OF THE STREAM BUFFER IS PROPOSED IN ORDER TO CONNECT PROPOSED SEWER TO THE EXISTING SEWER INFRASTRUCTURE. A BUFFER VARIANCE IS NOT REQUIRED.
- * CLEARLY NOTE THE STATEMENT THAT "AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL." SEE PART IV.C PAGE 26
"AMENDMENTS/REVISIONS TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL."
- * CLEARLY NOTE THE STATEMENT THAT "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT." PERMIT IVD.3.c.(1) PAGE 30
"WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT."
- CLEARLY NOTE STATEMENT THAT "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES."
"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES."
- 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."
"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."
- CLEARLY NOTE THE STATEMENT "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING." PERMIT IVD.3.c.(1) PAGE 29
"ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."
- * ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III.C OF THE PERMIT INCLUDE THE COMPLETED APPENDIX 1 LISTING ALL THE BMPs THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT. PERMIT III.C.2.a - v, PAGE 15-17
ACCORDING TO GEORGIA'S 2024 INTEGRATED 305(B)/303(D) REPORT, CONSTRUCTION ACTIVITY FOR THIS PROJECT IS WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT. THE HEADWATERS OF LITTLE RIVER EXTENDING 3 MILES IS LISTED AS AN IMPAIRED STREAM FOR BIO F, AND FC.
ARTICLE 1 BMPs:
1. A LARGE SIGN (MINIMUM 4 FEET X 8 FEET) MUST BE ON THE SITE ON THE ACTUAL START DATE OF CONSTRUCTION VISIBLE FROM A PUBLIC ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) UNTIL A NOT HAS BEEN SUBMITTED.
2. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IVD.6.d. OF THE NPDES PERMITS.
3. APPLY THE APPROPRIATE GEORGIA DEPARTMENT OF TRANSPORTATION APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX TO ALL SLOPES STEEPER THAN 3:1. ALL GRAPHICAL ILLUSTRATIONS MUST BE INCLUDED ON THE PLAN.
4. APPLY THE APPROPRIATE COMPOST BLANKETS (MINIMUM DEPTH 1.5 INCHES) TO PROTECT SOIL SURFACES UNTIL VEGETATION IS ESTABLISHED DURING THE FINAL STABILIZATION PHASE OF THE CONSTRUCTION ACTIVITY.
4. * IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED

STREAM SEGMENT (IDENTIFIED IN ITEM 22 ABOVE) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF THE ES&PC PLAN. MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN. PERMIT III.C.1 PAGE 15
SEE ITEM 22 ABOVE.

- * BMPs FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHDOWN OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. PERMIT IVD.3.c.(6) PAGE 31
IF WASHDOWN IS COMPLETED ON-SITE IT MUST BE PERFORMED IN A WATERTIGHT CONTAINER TO BE DISPOSED OF OFF-SITE.
- PROVIDE BMPs FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS. PERMIT IVD.3.c.(5) PAGE 31
SOIL CLEANUP AND CONTROL PRACTICES
LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL.
MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD SHALL BE CONTACTED WITHIN 24 HOURS.
FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL SHALL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
- * DESCRIPTION OF THE MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. PERMIT IVD.3.b PAGE 29
BEST MANAGEMENT PRACTICES (BMPs) IN ACCORDANCE TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL SHALL BE EMPLOYED TO PREVENT EROSION IN AREAS OF BARE SOILS AND CONCENTRATED WATER FLOWS. STORM DRAIN OUTLET PROTECTION, ST OR RIP-RAP, SHALL BE INSTALLED AT THE DISCHARGE OF ALL STORM DRAINAGE SYSTEMS TO PREVENT EROSION.
PERMANENT GRASSING SHALL BE USED TO STABILIZE THE SITE AND PREVENT EROSION AND SEDIMENT IN STORMWATER RUNOFF FROM THE SITE.
- * DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE. PERMIT IVD.3.c.(2) PAGE 30
CONTRACTOR TO PROVIDE PLASTIC SHEETING OR TEMPORARY ROOFS, TO COVER BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS.
* DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES. PERMIT IV PAGE 24
PRODUCTS SPECIFIC PRACTICES
PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND LARS SHALL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS SHALL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE AND LUBRICANTS ARE PROHIBITED. PROPER DISPOSAL METHODS SHALL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS SHALL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT SHALL NOT BE DISCHARGED TO STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.
FERTILIZER/HERBICIDES - THESE PRODUCTS SHALL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS SHALL BE UNDER ROOF IN SEALED CONTAINERS.
BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS SHALL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIALS SHALL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.
- 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 BMPs, CLEARING AND GRUBBING ACTIVITIES, EXCAVATION ACTIVITIES, UTILITY ACTIVITIES, GRADING, INFRASTRUCTURE, TEMPORARY AND FINAL STABILIZATION). PERMIT IVD.2.b PAGE 27
SEE CONSTRUCTION SCHEDULE. (SEE SHEET 11).
- * PROVIDE COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE. PART IVD.4.g, PAGES 31-33
INSPECTIONS
PRIMARY PERMITTEE REQUIREMENTS
(1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT:
(A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT.
(B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED
(2) MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION
(3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT 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
(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 IVD.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED

- 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 HAS BEEN SUBMITTED) 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).
- 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.
- A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IVD.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT
- * PROVIDE COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS. PART IVD.5.d PAGES 35-37 SAMPLING FREQUENCY AND PART IV.E PAGE 37 REPORTING

SEE SHEET 14 FOR SAMPLE LOCATION MAP SAMPLING FREQUENCY

- 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 STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- 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 STORMWATER DISCHARGE.
- 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 STORMWATER 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 STORMWATER 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 IVD.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:
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.

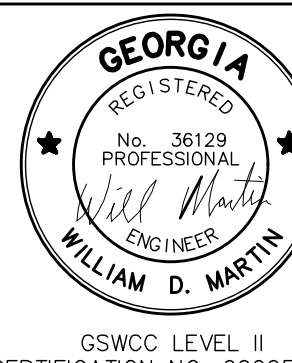
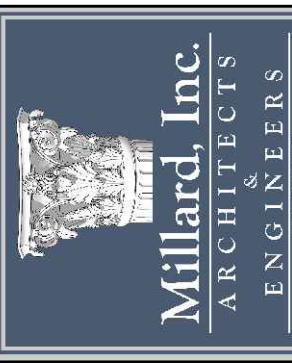
PROJECT NUMBER	2512
DATE	12/09/25
DRAWN BY	NES
APPROVED BY	
REVISIONS	

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
EROSION, SEDIMENTATION & POLLUTION
CONTROL PLAN CHECKLIST
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025

ALABAMA
FLORIDA
GEORGIA
SOUTH CAROLINA



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SHEET NUMBER

E-11

Disturbed Area Stabilization (With Mulching Only)

Ds1

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

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

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to Ds2 - Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding).

SPECIFICATIONS

Mulching Without Seeding

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

Site Preparation

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

Mulching Materials

- Select one of the following materials and apply at the depth indicated:
1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil for temporary protection. This material can be salvaged and re-used.

Applying Mulch

- When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.
1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment. 6-28
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch

- 1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving mulch in 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. Tackifiers, binders and hydraulic mulch with tackifier specifically designed for tack straw can be substituted for emulsified asphalt. Please refer to specification Tac-Tackifiers. 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 anchored trenched at the top as well as incrementally as necessary.

Disturbed Area Stabilization (With Temporary Seeding)

Ds2

DEFINITION
The establishment of temporary vegetative cover with fast growing seedlings for seasonal protection on disturbed or denuded areas.

PURPOSE
To reduce runoff and sediment damage of down stream resources
To protect the soil surface from erosion
To improve wildlife habitat
To improve aesthetics
To improve till, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification Ds1-Disturbed Area Stabilization (With Temporary Seeding).

CONDITIONS

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others. 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

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. 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

Agricultural lime is required unless soil tests indicate otherwise. 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. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land 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.

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, culti-packer-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or culti-packer 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. See Table 6-4.1

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 (With Mulching Only).

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.

Table 6-4.1: Temporary Cover or Companion Crop Plants, Planting Rate, and Planting Date for Permanent Cover or Companion Crops 1

Table with 10 columns: Species, Broadcast Rate, PLS Rate, PLS Seed Rate, and Planting Dates by Species (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z). Rows include species like BAHAMA BROOMCRASS, BETA, LORDEZIA, ANNUAL LEGUMINOSA, etc.

Table 6-5.2: Permanent Cover Crops Plants, Planting Rate, and Planting Date for Permanent Cover 2

Table with 10 columns: Species, Broadcast Rate, PLS Rate, PLS Seed Rate, and Planting Dates by Species (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z). Rows include species like BAHAMA BROOMCRASS, BETA, LORDEZIA, ANNUAL LEGUMINOSA, etc.

Table 6-5.3: Permanent Cover Crops Plants, Planting Rate, and Planting Date for Permanent Cover 3

Table with 10 columns: Species, Broadcast Rate, PLS Rate, PLS Seed Rate, and Planting Dates by Species (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z). Rows include species like BAHAMA BROOMCRASS, BETA, LORDEZIA, ANNUAL LEGUMINOSA, etc.

Table 6-5.4: Permanent Cover Crops Plants, Planting Rate, and Planting Date for Permanent Cover 4

Table with 10 columns: Species, Broadcast Rate, PLS Rate, PLS Seed Rate, and Planting Dates by Species (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z). Rows include species like BAHAMA BROOMCRASS, BETA, LORDEZIA, ANNUAL LEGUMINOSA, etc.

Disturbed Area Stabilization (With Permanent Vegetation)

Ds3

DEFINITION
The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization.

PURPOSE
To reduce damage from sediment and runoff to down-stream areas
To improve wildlife habitat and visual resources
To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil disturbing activities at the site have been completed and that 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 the GA 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.

Permanent vegetation shall consist of planted trees, shrubs, perennial vines, or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction.

For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dikes, and other denuded areas.
1. Use conventional planting methods where possible.
2. When mixed plantings are done during marginal planting periods, companion crops shall be used.

- 3. No-till planting is effective when planting is done following a summer or winter annual cover crop. Sericea lespedeza planted no-till into stands of rye is an excellent procedure.
4. Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification Ds4-Disturbed Area Stabilization (With Sodding).
5. Irrigation should be used when the soil is dry or when summer plantings are done.
6. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
7. Mowing should not be performed during the quail nesting season (May to September).
8. Wildlife plantings should be included in critical area plantings.

Disturbed Area Stabilization (With Permanent Vegetation) Ds3

Wildlife Plantings
Commercially available plants beneficial to wildlife species include the following:
Best Bearing Trees:
Beech, Black Cherry, Blackgum, Chestnut, Chinkapin, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.

All trees that produce nuts or fruits are favored by many game species. Hickory provides nuts used mainly by squirrels and bear.

Shrubs and Small Trees

Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza that produces seeds used by quail and songbirds.

Grasses, Legumes, Vines and Temporary Cover

Bahiagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Orchard grass (for mountains), Browntop Millet (for temporary cover), and Native grapes.

Provides herbaceous cover in clearing for agave bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and lespedezas may be mixed with grass, but they may die out after a few years.

CONSTRUCTION SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment. When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation. 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 and Analysis

Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. 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.

Lime spread by conventional equipment shall be "ground limestone." Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve and not less than 25 percent will pass through a 100-mesh sieve.

Fast-acting lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 180 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve. It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRAs. (See Figure 6-4.1)

Agricultural lime is generally not required where only trees are planted.

Initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table 6-5.1.

Lime and Fertilizer Application

When hydraulic seeding equipment is used, the initial fertilizer shall be mixed with seed, inoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The inoculant, 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 hydro seeder. Finely ground limestone can be applied in the mulch slurry or in combination with the top dressing.

When conventional planting is to be done, lime and fertilizer shall be applied uniformly in one of the following ways:

- 1. Apply before land preparation so that it will be mixed with the soil during seedbed preparation.
2. Mix with the soil used to fill the holes, distribute in furrows.
3. Broadcast after steep surfaces are scarified, pitted or trenched.
4. A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seeding.

Plant Selection

Refer to Tables 6-4.1, 6-5.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservationists of the Natural Resources Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area; time of year of planting, method of planting; and the needs and desires of the land user.

Permanent perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping Lovegrass.

Other perennials, such as Bahi Grass and Sericea lespedeza, are slow to become established and should be planted with another perennial species.

The additional species will provide quick cover and ample soil protection until the target perennial species become established. For example, Common seeding combinations are 1) Weeping Lovegrass with Sericea lespedeza (scarified) and 2) Tall Fescue with Sericea lespedeza (unscarified).

Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common mixture is Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops will compete with perennial species for water, nutrients, and growing space.

A high seeding rate of the companion crop may prevent the establishment of perennial species. 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.

Seed Quality
The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on percent germination and purity can be found on seed tags. PLS is determined by multiplying the percent of pure seed with the percent of germination; i.e., (PLS = % germination x % purity)

Common Bermuda seed 70% germination, 80% purity PLS = 70% germination x 80% purity PLS = 56%

The percent of PLS helps you determine the amount of seed you need. If the seeding rate is 10 lbs./acre PLS and the bulk seed is 56 % PLS, the bulk seeding rate is: 10 lbs. PLS/acre = 17.9 lbs./acre

56% PLS You would need to plant 17.9 lbs/acre to provide 10 lbs/acre of pure live seed.

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 firm 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 to 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. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or double planting.
2. For nursery stock plantings, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Inoculants

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. 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.

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 hydro seeder 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 culti-packer-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 culti-packer 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.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow.

Each plant shall be set in a manner that will avoid crowding the roots.

Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be slightly above the ground surface.

Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

Mulching

Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, vegetation establishment enhancement, and erosion control effectiveness. Select the mulching material from the following and apply as indicated:

- 1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.
2. Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Dry straw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding.
3. One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes 3/4:1 or steeper.
4. Sericea lespedeza hay containing mature seed shall be applied at a rate of three tons per acre.

- 5. Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate for seeded areas.
6. When using temporary erosion control blankets or block sod, mulch is not required.
7. Bituminous treated roving may be applied on planed areas, slopes, in ditches or dry waterways to prevent erosion. Bituminous treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications. Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when applied in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Anchoring 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 Straw

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 steep slopes and on bare areas on lawns.

Bedding Material

Mulch is used as a bedding material to conserve moisture and control weeds in nurseries, ornamental beds, anchor shrubs, and on bare areas on lawns.

Material Depth

Grain straw 4" to 6" Grass Hay 4" to 6" Pine needles 3" to 5" Wood waste 4" to 6" Irrigation will be applied at a rate that will not cause runoff.

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 in Table 6-5.1.

Second Year and Maintenance Fertilization

Second year fertilizer rates and maintenance fertilizer rates are listed in Table 6-5.1.

Lime Maintenance Application

Apply one ton of agricultural lime every 4 to 6 years or as indicated by soil tests. Soil tests can be conducted to determine more accurate requirements, if desired.

Use and Management

Mow Sericea lespedeza only after frost to ensure that the seeds are mature. Mow between November and March. Bermudagrass, Bahiagrass and Tall Fescue may be mowed as desired. Maintain at least 6 inches of top growth under any use and management. Moderate use of top growth is beneficial after establishment. Exclude traffic until the plants are well established. Because of the quail nesting season, mowing should not take place between May and September.

Table 6-5.1. Fertilizer Requirements

Table with 5 columns: Type of Species, Year, Analysis or Equivalent N-P-K, Rate 7/, and N Top Dressing Rate. Rows include Cool season grasses, Warm season grasses and legumes, Ground covers, Pine seedlings, Shrub Lespedeza, Temporary cover crops, Warm season grasses and legumes.

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 potted. 5) Apply to grass species only. 6) Apply when plants grow to a height of 2 to 4 inches. 7) Verify fertilizer rate based on soil test.

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APPROVED BY
REVISIONS
CITY OF SOCIAL CIRCLE PUBLIC WORKS DEPARTMENT GRASSING PLAN
MILLARD, INC. ARCHITECTS & ENGINEERS
580 Colonial Park Drive Roswell, Georgia 30075 770-993-2034
GEORGIA REGISTERED PROFESSIONAL ENGINEER WILLIAM D. WATSON
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SHEET NUMBER E-13

TABLE 6-5.3. DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
Abelia	<i>Abelia grandiflora</i>	3-4 ft.	5 ft.	Also a prostrate form 2 feet high. Sun, semi-shade. Semi-evergreen.
Carolina Yellow Jessamine	<i>Celastrum scarpovianum</i>	low	3 ft.	Vine. Yellow, trumpet-like flowers. Hardy, one of best vines. Evergreen. Native to Georgia.
Carpet Blue	<i>Alga replans</i>	2-4 in.	3 ft.	Needs good drainage, partial shade. Blue or white flowers. Evergreen.
Bearberry	<i>Coloniastrum dammarifolium</i>	2-4 ft.	5 ft.	White flowers, red fruit. Sun. Evergreen.
Ground Cover	<i>Coloniastrum setifolium 'Repens'</i>	1-2 ft.	5 ft.	White flowers, red fruit. Sun. Evergreen.
Rock	<i>Coloniastrum horzontale</i>	1-2 ft.	5 ft.	Semi-evergreen. Sun.
Virginia Creeper	<i>Parthenocissus quinquefolia</i>	low	3 ft.	Red in fall. Vine. Deciduous. Native to Georgia.
Daylily	<i>Hemerocallis spp.</i>	2-3 ft.	2 ft.	Many flower colors. Full sun. Very hardy.
English Ivy	<i>Hedera helix</i>	low	3 ft.	Shade only. Climbs.
Compact Holly	<i>Ilex cornuta 'Compacta'</i>	3-4 ft.	5 ft.	Sun, semi-shade.
Chinese Holly	<i>Ilex cornuta 'Retardata'</i>	3-4 ft.	5 ft.	Very durable. Sun, semi-shade.
Dwarf Burford Holly	<i>Ilex burfordii</i>	5-8 ft.	8 ft.	
Dwarf Yaupon Holly	<i>Ilex vomitoria 'Nana'</i>	3-4 ft.	5 ft.	Very durable, sun, semi-shade.
Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
Rapier Holly	<i>Ilex cornuta 'Rapier'</i>	2-3 ft.	5 ft.	Sun, semi-shade.
Andromeda	<i>Juniperus horizontalis 'Purpurea'</i>	2-3 ft.	5 ft.	Excellent for slopes. Sun.
Andromeda Compacta	<i>Juniperus horizontalis 'Purpurea compacta'</i>	1-2 ft.	5 ft.	More compact than andromeda.
Blue Chip Juniper	<i>Juniperus horizontalis 'Blue Chip'</i>	8-10 in.	4 ft.	
Blue Rug Juniper	<i>Juniperus horizontalis 'Wiltonii'</i>	4-6 in.	3 ft.	Very low. Sun.
Parsons Juniper	<i>Juniperus horizontalis 'Parsons'</i>	18-24 in.	5 ft.	One of the best, good winter cover.
Pfizer Juniper	<i>Juniperus chinensis 'Pfitzeriana'</i>	6-8 ft.	6 ft.	Needs room.
Prince of Wales Juniper	<i>Juniperus horizontalis 'Prince of Wales'</i>	8-10 in.	4 ft.	Feathery appearance.
Sargent Juniper	<i>Juniperus chinensis 'Sargentii'</i>	1-2 ft.	5 ft.	Full sun. Needs good drainage. Good winter color.
Shore Juniper	<i>Juniperus conferta</i>	2-3 ft.	5 ft.	Emerald Sea or Blue Pacific cultivars are good.
Litopa	<i>Litopa muscari</i>	8-10 in.	3 ft.	
Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
Creeper	<i>Litopa spicata</i>	10-12 in.	1 ft.	Spreads by runners.
Big Leaf Periwinkle	<i>Viola major</i>	12-15 in.	4 ft.	Lilac flowers in spring. Semi-shade.
Common Periwinkle	<i>Viola minor</i>	5-6 in.	4 ft.	Lavender-blue flowers in spring. Semi-shade.
Cherokee Rose	<i>Rosa laevigata</i>	2 ft.	5 ft.	Rampant grower. Not for restricted spaces. State flower.
Memphis Rose	<i>Rosa wichuriana</i>	2 ft.	5 ft.	Rampant grower.
St. Johnswort	<i>Hypericum calycarum</i>	8-12 in.	3 ft.	Semi-shade.
Anthony Wither Spinach	<i>Spiraea bumalda</i>	3-4 ft.	5 ft.	Sun.
Thunberg Spirea	<i>Spiraea thunbergii</i>	3-4 ft.	5 ft.	Sun.

VEGETATIVE PRACTICES

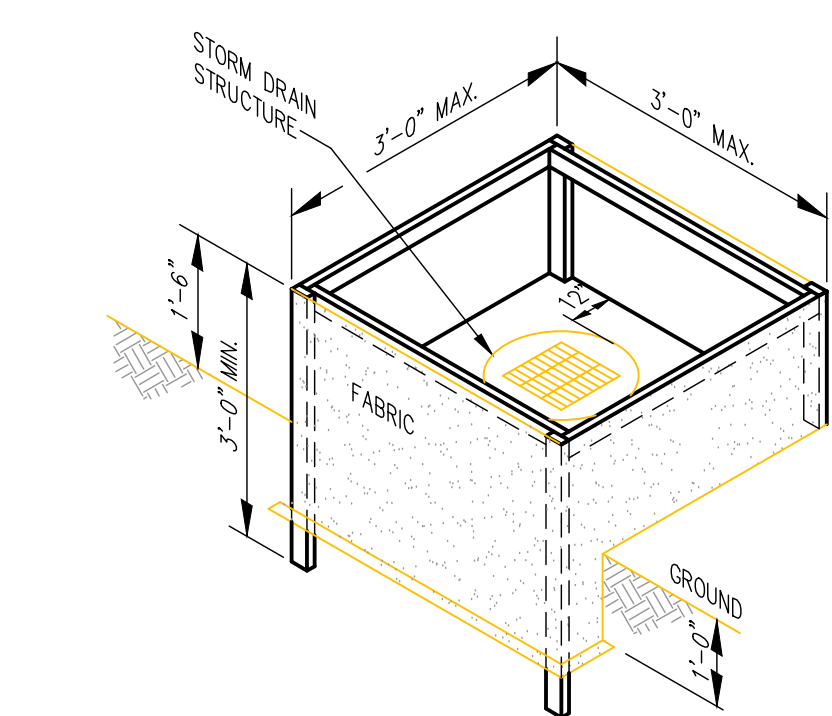
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOILING)		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-Cg	FLOCCULANTS AND COAGULANTS		Fl-Cg	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (DINK FROM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by coating the organic material to bind together.

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES STATE SOIL AND WATER CONSERVATION COMMISSION OF GEORGIA STRUCTURAL PRACTICES

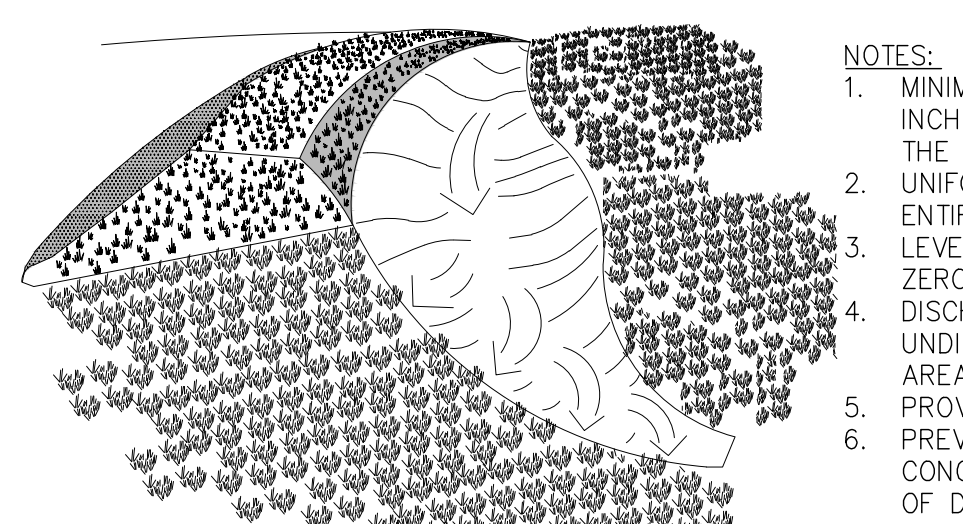
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECK DAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting adjacent streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A driveway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or other material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser construction activities.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMDRAIN CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

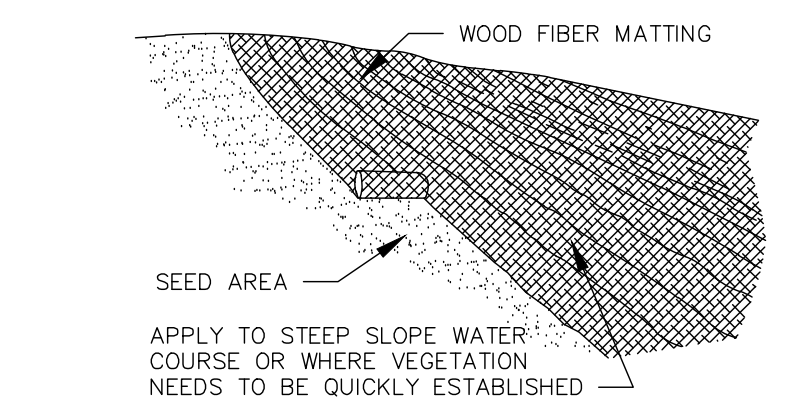
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation, or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are eroded, artificially constructed, or re-nourished.



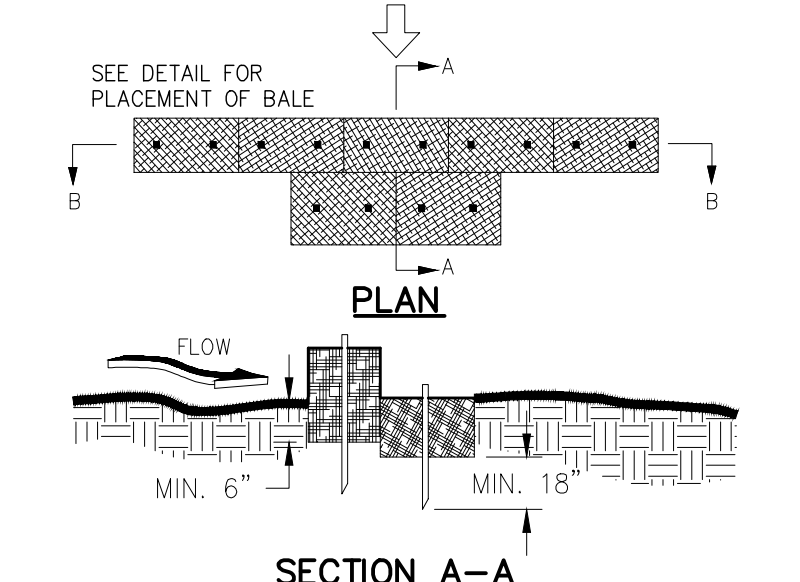
Sd2 INLET SEDIMENT TRAP DETAIL N.T.S.



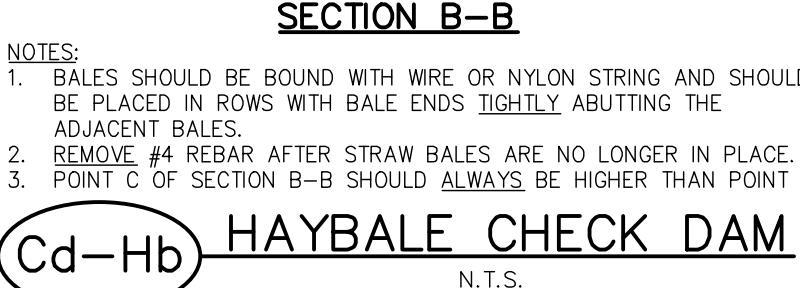
Lv LEVEL SPREADER N.T.S.



Ss SLOPE STABILIZATION N.T.S.



Cd-Hb HAYBALE CHECK DAM N.T.S.

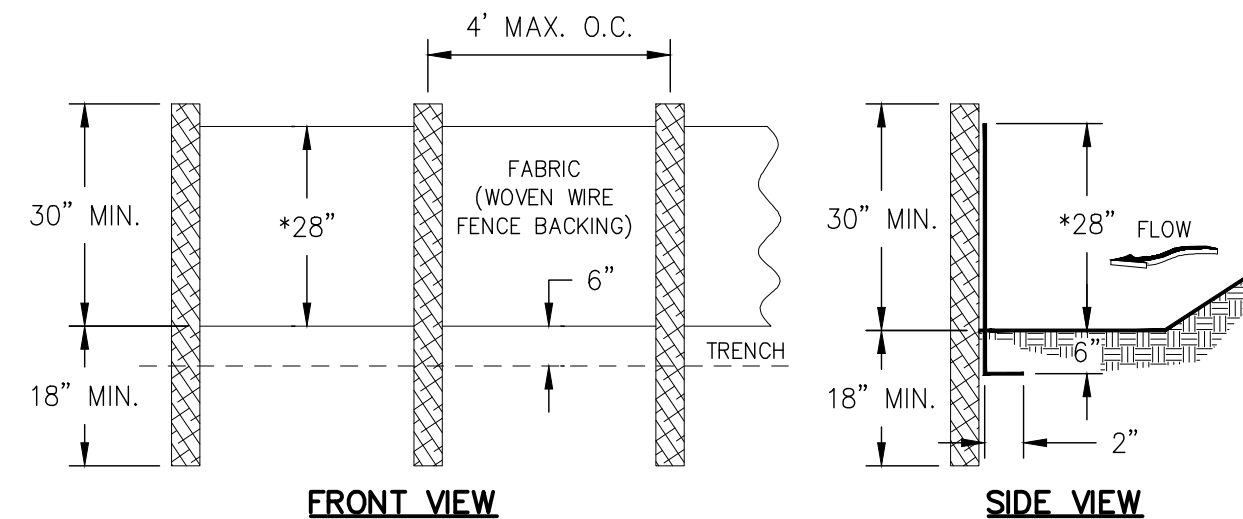


Cd-S CHECK DAM - STONE N.T.S.

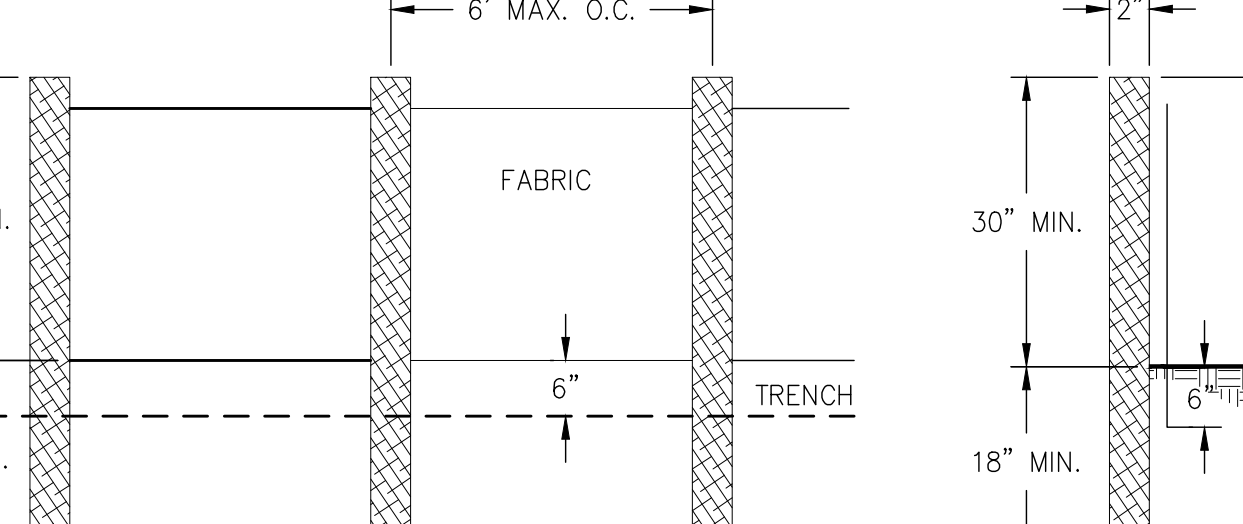


St STORM DRAIN OUTLET PROTECTION N.T.S.

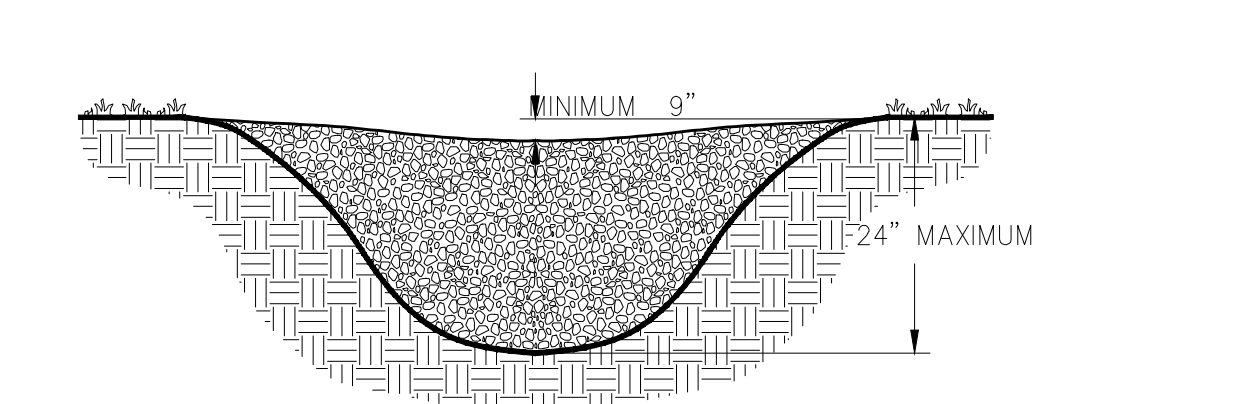
STORM DRAIN OUTLET DATA							
STRUCTURE LOCATION	D _o	Q=FT ³ /SEC	V=FT/SEC	d ₅₀ (FT.)	L _g (FT.)	W ₁ (FT.)	W ₂ (FT.)
1	18"	50	28	1.5	60	5	65
2	24"	85	27	1.5	70	6	75



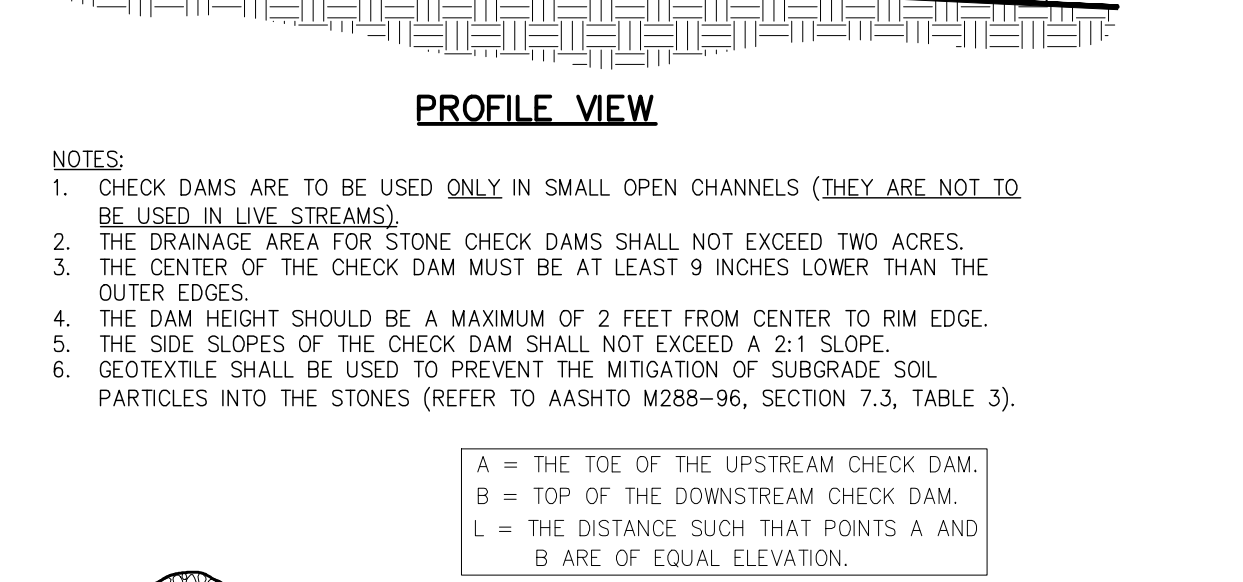
Sd1-S SILT FENCE - TYPE SENSITIVE N.T.S.



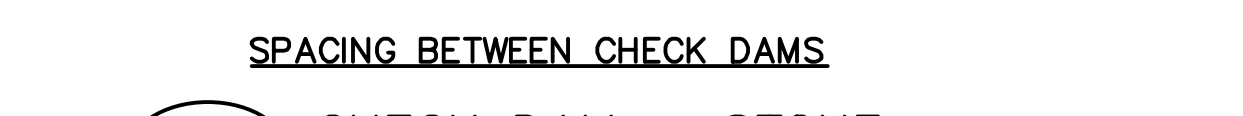
Sd1-NS SILT FENCE - TYPE NON-SENSITIVE N.T.S.



CROSS SECTION



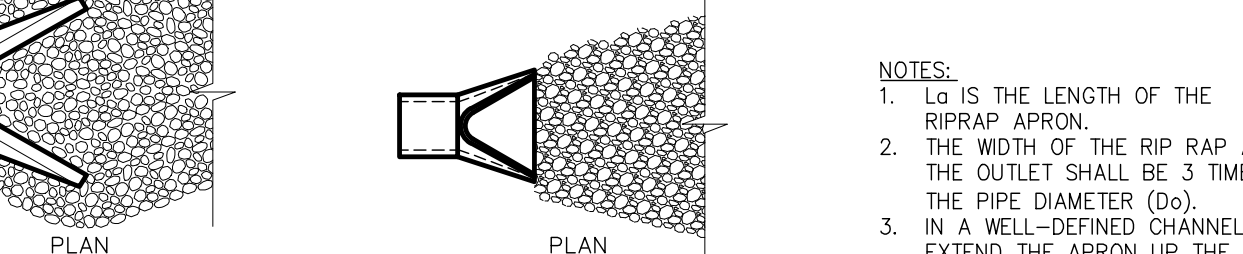
PROFILE VIEW



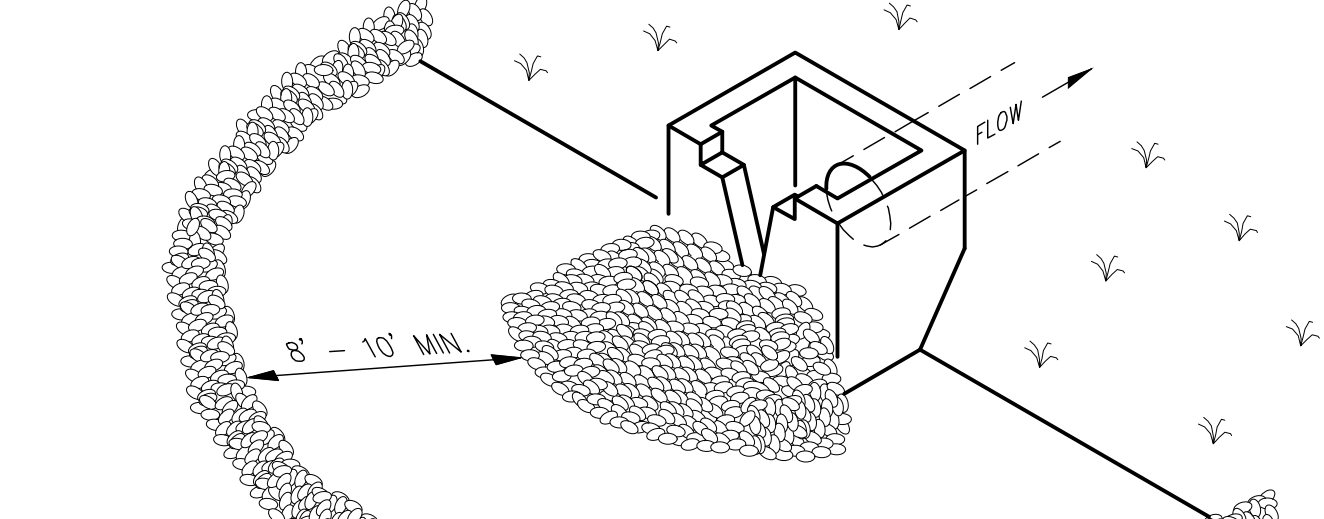
SPACING BETWEEN CHECK DAMS



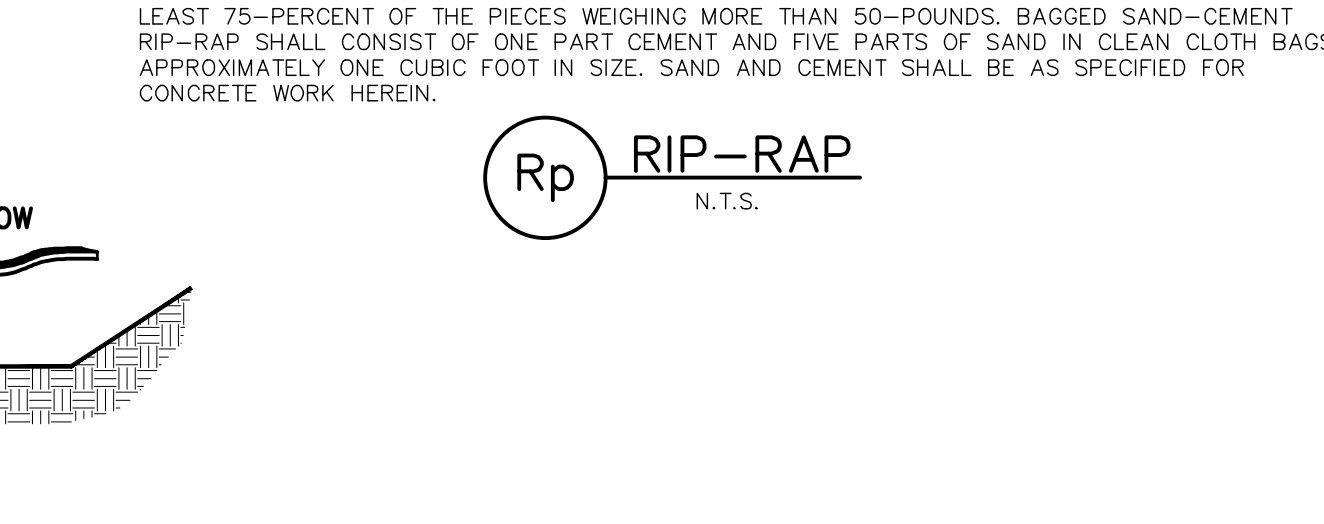
Cd-Hb HAYBALE CHECK DAM N.T.S.



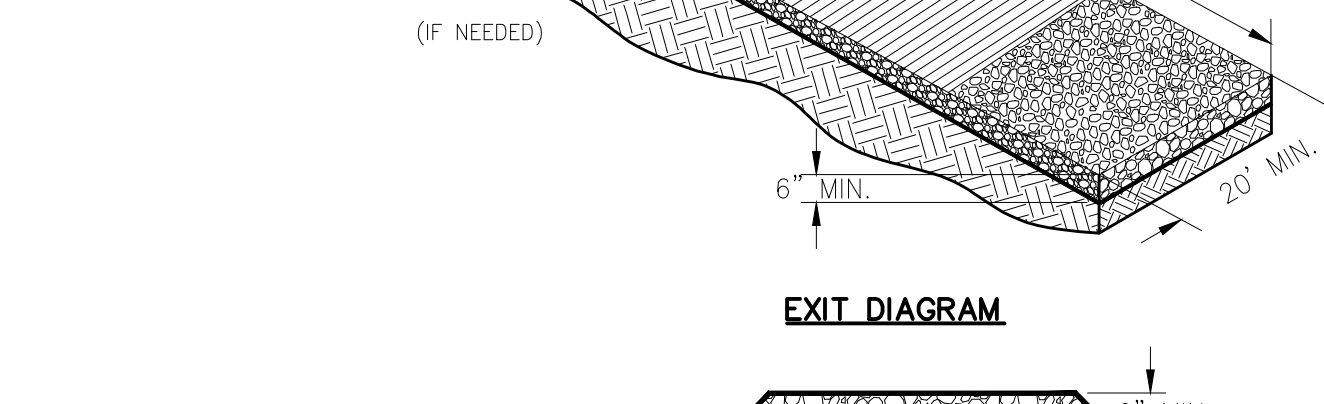
St STORM DRAIN OUTLET PROTECTION N.T.S.



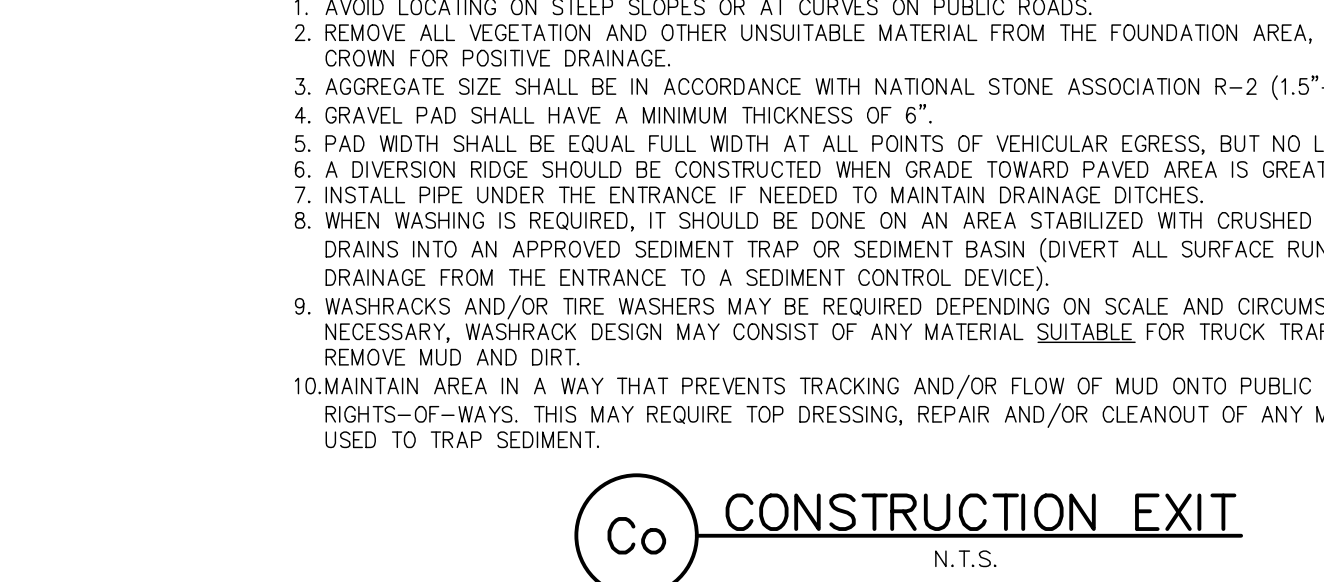
Fr STONE FILTER RING DETAIL N.T.S.



Rp RIP-RAP N.T.S.



EXIT DIAGRAM



ENTRANCE ELEVATION



Co CONSTRUCTION EXIT N.T.S.

PROJECT NUMBER	2512
DATE	12/09/25
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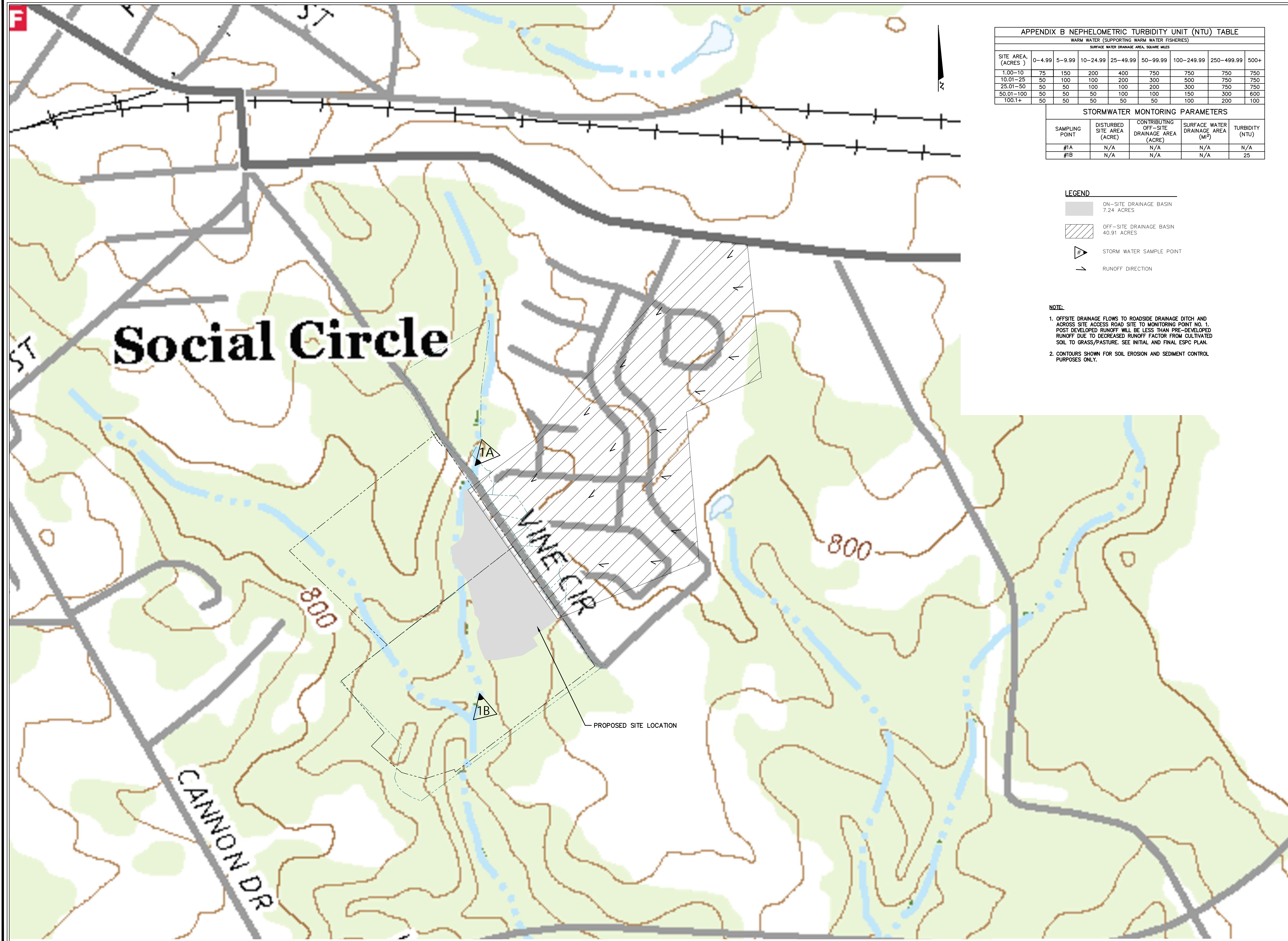
CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
ESPC DETAILS
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025

TURNPIECE ENGINEERS
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CERTIFICATION NO. 000055308

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APPENDIX B NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLE

WARM WATER (SUPPORTING WARM WATER FISHERIES)

SITE AREA, (ACRES)	SURFACE WATER DRAINAGE AREA, SQUARE MILES							
	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.1+	50	50	50	50	50	100	200	100

STORMWATER MONITORING PARAMETERS

SAMPLING POINT	DISTURBED SITE AREA (ACRE)	CONTRIBUTING OFF-SITE DRAINAGE AREA (ACRE)	SURFACE WATER DRAINAGE AREA (MI ²)	TURBIDITY (NTU)
#1A	N/A	N/A	N/A	N/A
#1B	N/A	N/A	N/A	25

- LEGEND**
- ON-SITE DRAINAGE BASIN
7.24 ACRES
 - OFF-SITE DRAINAGE BASIN
40.91 ACRES
 - STORM WATER SAMPLE POINT
 - RUNOFF DIRECTION

- NOTE:**
- OFFSITE DRAINAGE FLOWS TO ROADSIDE DRAINAGE DITCH AND ACROSS SITE ACCESS ROAD SITE TO MONITORING POINT NO. 1. POST DEVELOPED RUNOFF WILL BE LESS THAN PRE-DEVELOPED RUNOFF DUE TO DECREASED RUNOFF FACTOR FROM CULTIVATED SOIL TO GRASS/PASTURE. SEE INITIAL AND FINAL ESPC PLAN.
 - CONTOURS SHOWN FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY.

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NES

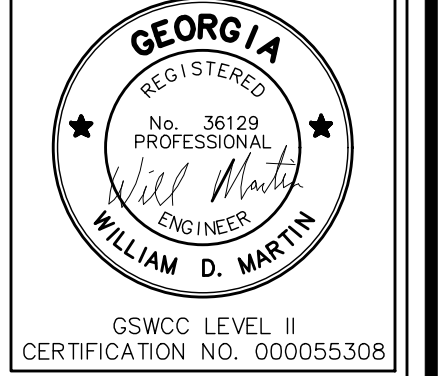
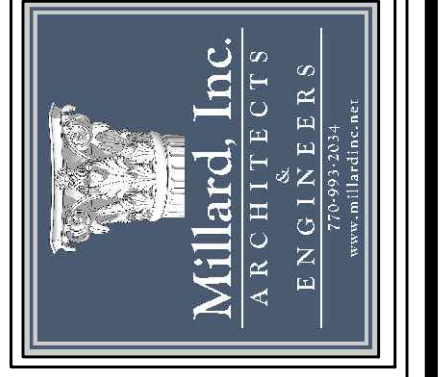
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CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
DRAINAGE BASIN MAP
NEW VINE CIRCLE, SOCIAL CIRCLE, GEORGIA 30025



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PRE AND POST DRAINAGE BASIN MAP
SCALE: 1" = 200'
USGS 1:24,000'
TOPOGRAPHICAL SHEETS

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