

DRAWING INDEX

CIVIL

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C0.02	GENERAL NOTES (SHEET 2 OF 2)	11/8/2024	6/4/2025
C0.03	NCG01 NOTES (SHEET 1 OF 2)	11/8/2024	6/4/2025
C0.04	NCG01 NOTES (SHEET 2 OF 2)	11/8/2024	6/4/2025
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C7.01	SIGHT DISTANCE PLAN & PROFILE	2/24/2025	6/4/2025
L1.01	LANDSCAPING PLAN	11/8/2024	6/4/2025
L1.02	ENHANCED LANDSCAPE PLANTER DETAILS (ELP-1)	1/28/2025	6/4/2025
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SITE INFORMATION

SITE LOCATION:
PARCEL NUMBER: 06225390A
PARCEL AREA: 3.48 AC
ETJ AREA: MARVIN
TIME FRAME: FALL '25 – SPRING '26

ZONING INFORMATION:
EXISTING ZONING DISTRICT: CIV (CIVIC)
OVERLAY DISTRICT: HD–CIV–CZ
(HERITAGE DISTRICT–CIVIC HERITAGE DISTRICT)
CIVIC

PRINCIPAL USES:
WATERSHED INFORMATION:
STREAM WATERSHED: 6–MILE

SCOPE OF WORK: CONSTRUCTION OF A NEW PARK SITE ADJACENT TO THE EXISTING VILLAGE OF MARVIN TOWN HALL TO INCLUDE A LAWN AREA, A GRADED PAD FOR A FUTURE AMPHITHEATER, 8'-WIDE ASPHALT TRAILS, A 6' WIDE GRAVEL TRAIL CONNECTION, ONE UNDERGROUND RAINWATER CISTERN, TWO ENHANCED LANDSCAPE PLANTING AREAS, SIDEWALK, STORM DRAINAGE, AND LANDSCAPING.

DENUDED LIMITS: 1.3 AC

CODE REFERENCES

MARVIN DEVELOPMENT ORDINANCE – 2024
AMERICANS WITH DISABILITIES ACT – ACCESSIBILITY GUIDELINES, 2010 (ADAAG)
NCDEQ EROSION AND SEDIMENT CONTROL MANUAL – 2013
NCDOT POLICY ON STREET AND DRIVEWAY ACCESS TO NORTH CAROLINA HIGHWAYS – 2003
UNION COUNTY PUBLIC WORKS SANITARY SEWER & WATER SPECIFICATIONS
VILLAGE OF MARVIN ENGINEERING STANDARDS AND PROCEDURES MANUAL – 2017

VILLAGE OF MARVIN

VILLAGE HALL PARK PHASE 1

100% CONSTRUCTION DOCUMENTS

10006 MARVIN SCHOOL ROAD

MARVIN, NORTH CAROLINA 28173

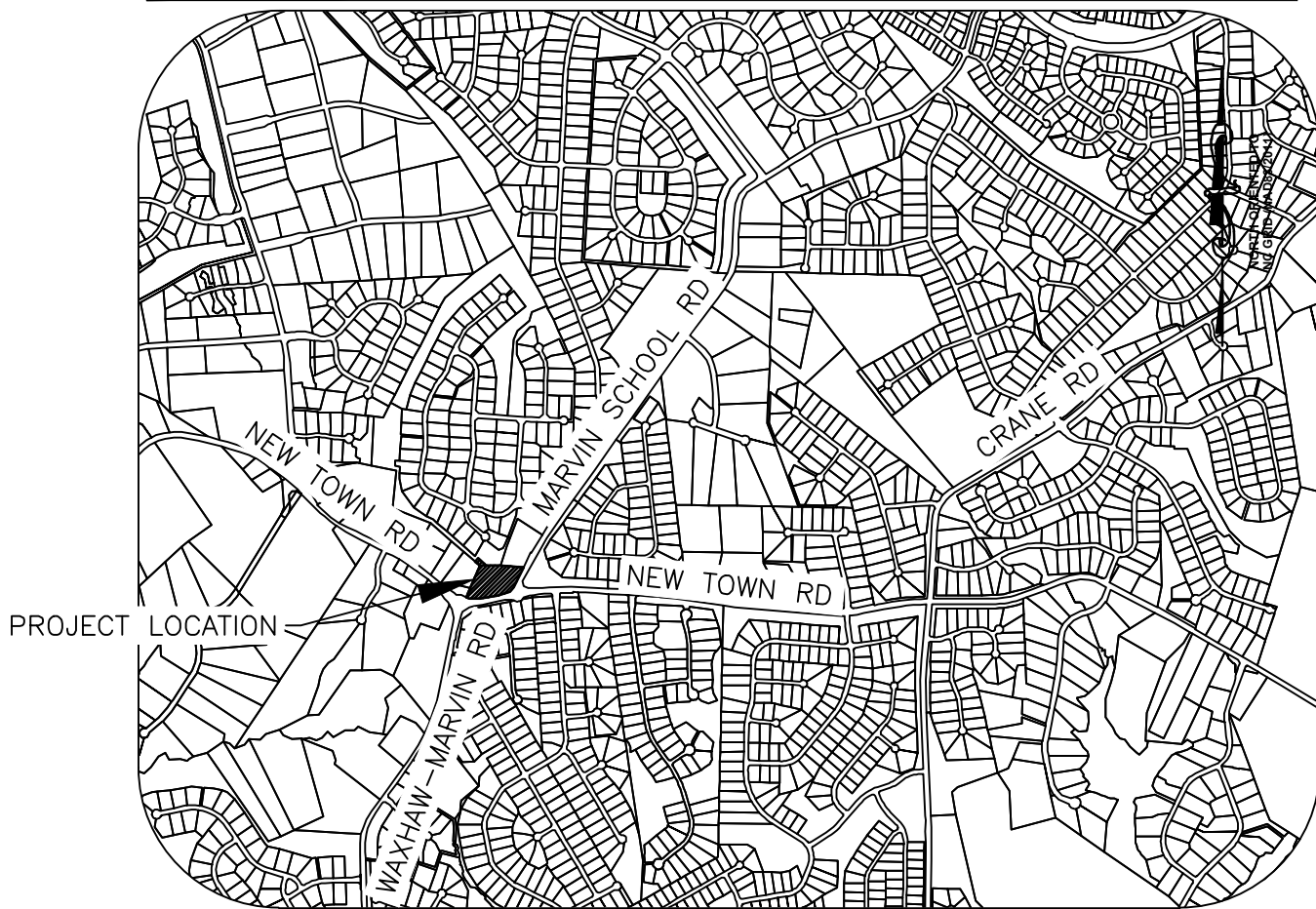
VICINITY MAP

SCALE: 1" = 250'



LOCATION MAP

SCALE: 1" = 2000'



CONTACTS

OWNER:
VILLAGE OF MARVIN
TYLER HUNEYCUTT
RECREATION ACTIVITIES COORDINATOR
10006 MARVIN SCHOOL ROAD
MARVIN, NC 28173
PH. (704)843–1680
THuneycutt@marvinnc.gov

LANDSCAPE ARCHITECT:
DEWBERRY ENGINEERS INC.
TRISTAN M. MCMANNIS, PLA
9300 HARRIS CORNERS PKWY, SUITE 220
CHARLOTTE, NC 28269
PH. (704) 264–1233
FAX (704) 509–9937
TMCMANNIS@DEWBERRY.COM

ENGINEER:
DEWBERRY ENGINEERS INC.
BRIAN LAFRANCHI, P.E.
9300 HARRIS CORNERS PKWY, SUITE 220
CHARLOTTE, NC 28269
PH. (704) 631–5206
FAX (704) 509–9937
BLAFRANCHI@DEWBERRY.COM

SUBMITTAL		SET NUMBER
<input type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	
<input checked="" type="checkbox"/> APPROVAL	<input type="checkbox"/> REVISION	
<input type="checkbox"/> BIDDING	<input type="checkbox"/> RECORD	



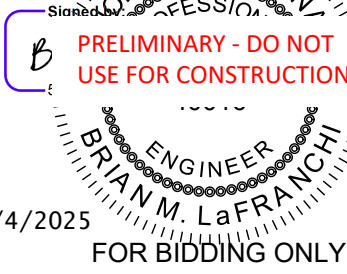
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NCBELS #F-0929
NCBOLA #C-478

VILLAGE OF MARVIN
VILLAGE HALL PARK PHASE 1

100% CONSTRUCTION DOCUMENTS

10006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA

SEAL



KEY PLAN:

SCALE:

REVISIONS

NO.	DATE	BY	DESCRIPTION
Δ	06/04/25	DLJ	AGENCY COMMENTS
Δ	02/24/25	DLJ	95% REVIEW SET
Δ	01/28/25	DLJ	70% REVIEW SET
Δ	11/08/24	BML	30% REVIEW SET

DRAWN BY: BJN

APPROVED BY: BML

CHECKED BY: DLJ

DATE: AUGUST 28, 2024

TITLE

COVER SHEET

DEI PROJECT NO: 50181675

SHEET NO.

T0.01

1. DIMENSIONS AND COORDINATE POINTS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CORNER OF BUILDING UNLESS OTHERWISE NOTED.
2. ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL STANDARDS.
3. ANY DISCREPANCIES FOUND IN THE FIELD SHALL BE CALLED TO THE ATTENTION OF THE OWNER OR ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK.
4. PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM ALL REGULATORY AUTHORITIES.
5. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHT-OF-WAYS, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.
6. GENERAL CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND THE PUBLIC SHALL BE PROTECTED FROM INJURY.
7. DO NOT SCALE DRAWINGS FROM ACTUAL DIMENSIONS, AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
8. CONTRACTOR SHALL SAW-CUT EXISTING ASPHALT PAVEMENT AREAS TO TIE IN SMOOTHLY TO PROPOSED PAVEMENT.
9. LAND DEVELOPMENT INSPECTOR TO BE GIVEN 24 HOURS NOTICE PRIOR TO START OF CONSTRUCTION.
10. THE (VILLAGE OF MARVIN/UNION COUNTY) ENGINEERING DEPARTMENT HAS NOT REVIEWED THE STRUCTURAL STABILITY OF ANY RETAINING WALLS ON THE SITE AND DOES NOT ASSUME RESPONSIBILITY FOR THEM.
11. THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH AN ELECTRONIC FILE OF THESE DRAWINGS UPON REQUEST.
12. ALL RETAINING WALLS SHALL HAVE A 48" HEIGHT BLACK ALUMINUM FENCE WITH PICKETS NOT PERMITTING THE PASSAGE OF A 4" DIAMETER SPHERE LOCATED ON THE TOP OF WALL. SEE WALL DESIGN BY OTHERS FOR DETAILED INFORMATION.
13. IF REQUIRED BY VILLAGE OF MARVIN/UNION COUNTY, P.E. SEALED SHOP DRAWINGS FOR RETAINING WALLS MUST BE SUBMITTED TO VILLAGE/COUNTY ENGINEER PRIOR TO CONSTRUCTION.
14. ALL PAVED AREAS SHALL COMPLY WITH THE LATEST ADA ACCESSIBILITY (2010) AND ANSI A117.1 GUIDELINES.
15. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,600-PSI AT 28 DAYS, AND SHALL HAVE A MEDIUM BROOM FINISH PERPENDICULAR TO THE PATH OF TRAVEL.
16. ALL PROPOSED PAVEMENT ADJACENT TO EXISTING PAVEMENT SHALL TIE FLUSH TO ADJACENT SURFACES.

- EMBANKMENT SPECIFICATIONS MAY BE MODIFIED BASED ON SITE-SPECIFIC GEOTECHNICAL INVESTIGATION AND ENGINEERING DESIGN

SHEET NO.

C0.02

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<ol style="list-style-type: none"> 1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<ol style="list-style-type: none"> 1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<p>If visible sedimentation is found outside site limits, then a record of the following shall be made:</p> <ol style="list-style-type: none"> 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<p>If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made:</p> <ol style="list-style-type: none"> 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	<ol style="list-style-type: none"> 1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

SECTION C: REPORTING

1. Occurrences that Must be Reported

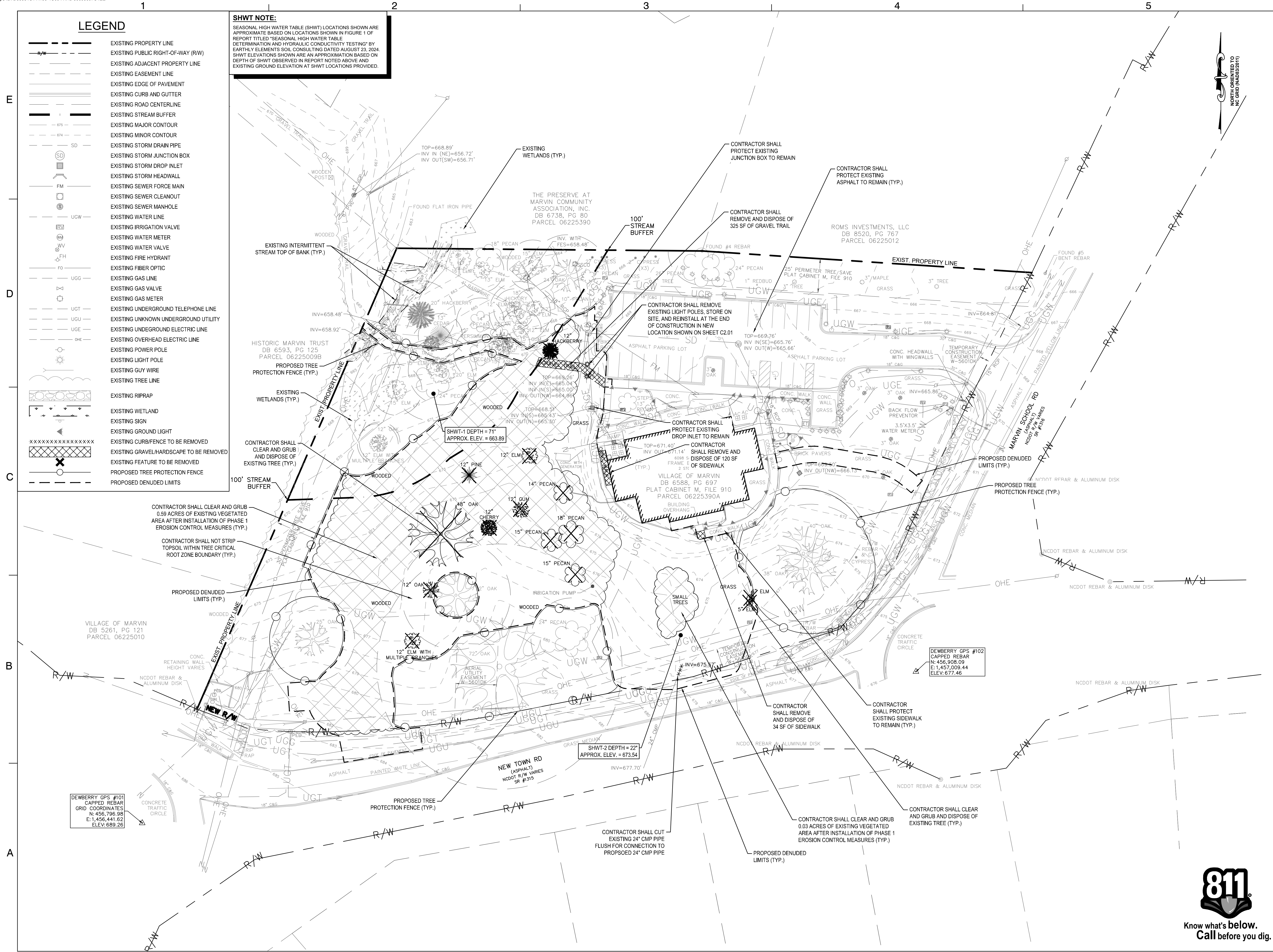
Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.



- LEGEND**
- EXISTING PROPERTY LINE
 - EXISTING PUBLIC RIGHT-OF-WAY (R/W)
 - EXISTING ADJACENT PROPERTY LINE
 - EXISTING EASEMENT LINE
 - EXISTING EDGE OF PAVEMENT
 - EXISTING CURB AND GUTTER
 - EXISTING ROAD CENTERLINE
 - EXISTING STREAM BUFFER
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING STORM DRAIN PIPE
 - EXISTING STORM JUNCTION BOX
 - EXISTING STORM DROP INLET
 - EXISTING STORM HEADWALL
 - EXISTING SEWER FORCE MAIN
 - EXISTING SEWER CLEANOUT
 - EXISTING SEWER MANHOLE
 - EXISTING WATER LINE
 - EXISTING IRRIGATION VALVE
 - EXISTING WATER METER
 - EXISTING WATER VALVE
 - EXISTING FIRE HYDRANT
 - EXISTING FIBER OPTIC
 - EXISTING GAS LINE
 - EXISTING GAS VALVE
 - EXISTING GAS METER
 - EXISTING UNDERGROUND TELEPHONE LINE
 - EXISTING UNKNOWN UNDERGROUND UTILITY
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING POWER POLE
 - EXISTING LIGHT POLE
 - EXISTING GUY WIRE
 - EXISTING TREE LINE
 - EXISTING RIPRAP
 - EXISTING WETLAND
 - EXISTING SIGN
 - EXISTING GROUND LIGHT
 - EXISTING CURB/FENCE TO BE REMOVED
 - EXISTING GRAVEL/HARDSCAPE TO BE REMOVED
 - EXISTING FEATURE TO BE REMOVED
 - PROPOSED TREE PROTECTION FENCE
 - PROPOSED DENUED LIMITS

SHWT NOTE:
SEASONAL HIGH WATER TABLE (SHWT) LOCATIONS SHOWN ARE APPROXIMATE BASED ON LOCATIONS SHOWN IN FIGURE 1 OF REPORT TITLED "SEASONAL HIGH WATER TABLE DETERMINATION AND HYDRAULIC CONDUCTIVITY TESTING" BY EARTHLY ELEMENTS SOIL CONSULTING DATED AUGUST 23, 2024. SHWT ELEVATIONS SHOWN ARE AN APPROXIMATION BASED ON DEPTH OF SHWT OBSERVED IN REPORT NOTED ABOVE AND EXISTING GROUND ELEVATION AT SHWT LOCATIONS PROVIDED.

Dewberry
Dewberry Engineers Inc.
6300 Harris Corners Pkwy - Suite 220
Charlotte, NC 28269
Phone: 704.509.9918
Fax: 704.509.9937
www.dewberry.com
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NCBOLA #C-478

**VILLAGE OF MARVIN
VILLAGE HALL PARK PHASE 1**
100% CONSTRUCTION DOCUMENTS
10006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEERING
PRELIMINARY - DO NOT USE FOR CONSTRUCTION
6/4/2025
FOR BIDDING ONLY

KEY PLAN:
SCALE: 1" = 30'
0' 30' 60'

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	06/04/25	DLJ	AGENCY COMMENTS
2	01/28/25	DLJ	70% REVIEW SET
3	11/08/24	BML	30% REVIEW SET

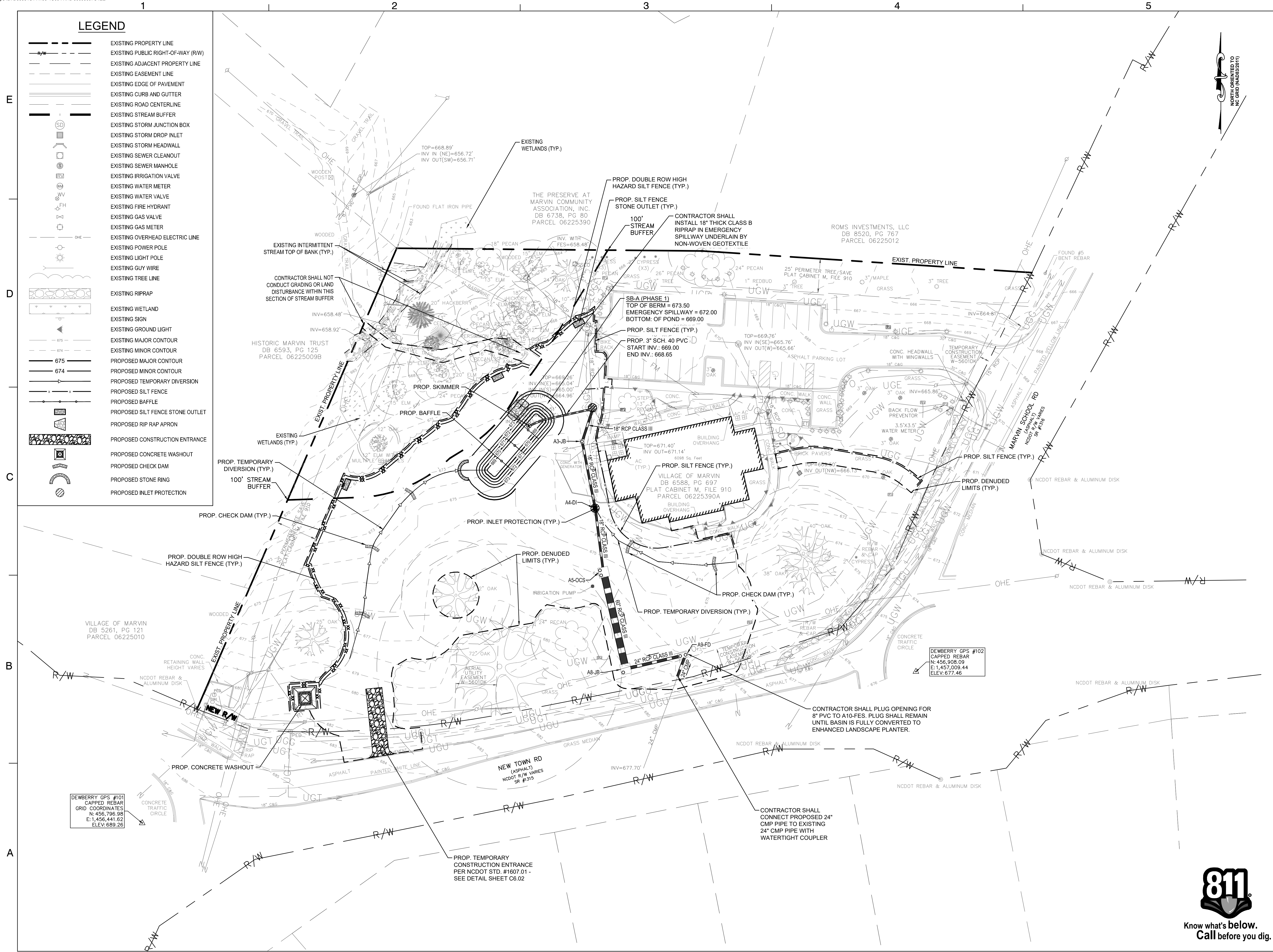
DRAWN BY: BJN
APPROVED BY: BML
CHECKED BY: DLJ
DATE: AUGUST 28, 2024

**DEMOLITION AND
EXISTING
CONDITIONS PLAN**

DEI PROJECT NO: 50181675
SHEET NO.

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

C1.01



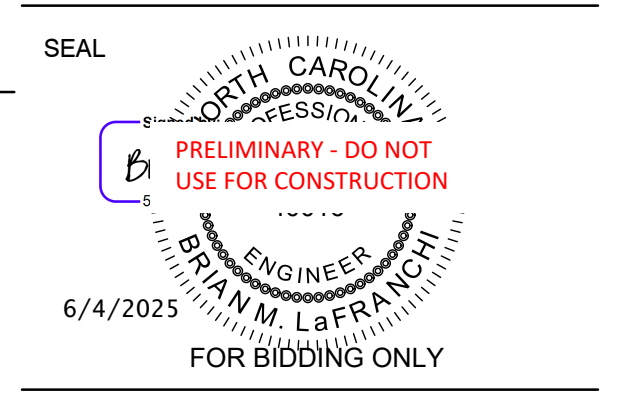
LEGEND

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- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED TEMPORARY DIVERSION
- PROPOSED SILT FENCE
- PROPOSED BAFFLE
- PROPOSED SILT FENCE STONE OUTLET
- PROPOSED RIP RAP APRON
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED CONCRETE WASHOUT
- PROPOSED CHECK DAM
- PROPOSED STONE RING
- PROPOSED INLET PROTECTION

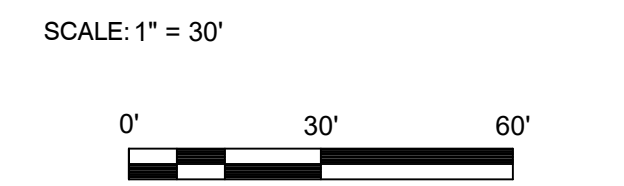


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VILLAGE OF MARVIN
VILLAGE HALL PARK PHASE 1
100% CONSTRUCTION DOCUMENTS



KEY PLAN:



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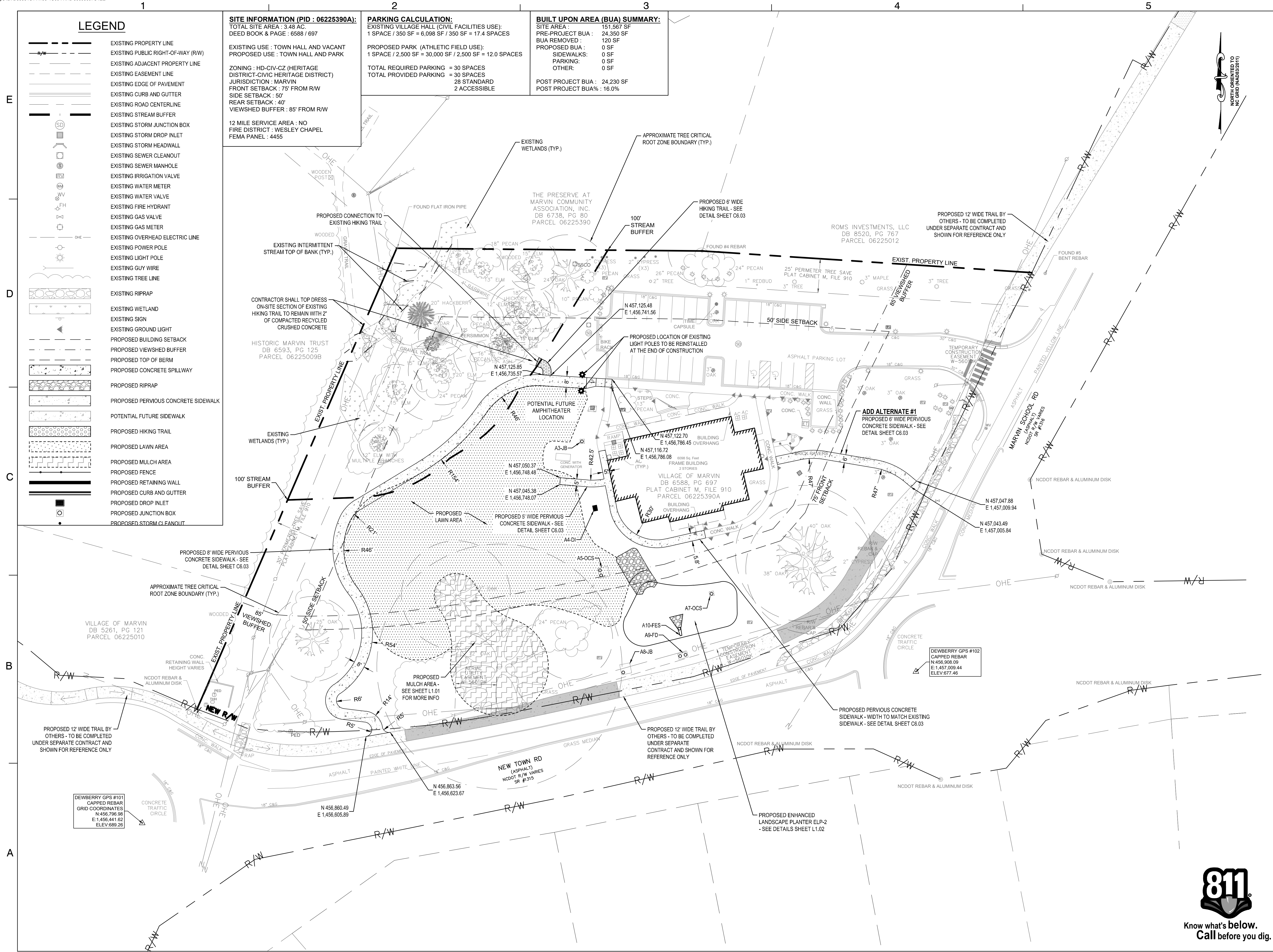
DRAWN BY: BJN
APPROVED BY: BML
CHECKED BY: DLJ
DATE: AUGUST 28, 2024
TITLE:

ESC PH I PLAN

DEI PROJECT NO: 50181675
SHEET NO.

C1.02





LEGEND

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- EXISTING GUY WIRE
- EXISTING TREE LINE
- EXISTING RIPRAP
- EXISTING WETLAND
- EXISTING SIGN
- EXISTING GROUND LIGHT
- PROPOSED BUILDING SETBACK
- PROPOSED VIEWSHED BUFFER
- PROPOSED TOP OF BERM
- PROPOSED CONCRETE SPILLWAY
- PROPOSED RIPRAP
- PROPOSED PERVIOUS CONCRETE SIDEWALK
- POTENTIAL FUTURE SIDEWALK
- PROPOSED HIKING TRAIL
- PROPOSED LAWN AREA
- PROPOSED MULCH AREA
- PROPOSED FENCE
- PROPOSED RETAINING WALL
- PROPOSED CURB AND GUTTER
- PROPOSED DROP INLET
- PROPOSED JUNCTION BOX
- PROPOSED STORM CLEANOUT

SITE INFORMATION (PID : 06225390A):
TOTAL SITE AREA : 3.48 AC.
DEED BOOK & PAGE : 6588 / 697

EXISTING USE : TOWN HALL AND VACANT
PROPOSED USE : TOWN HALL AND PARK

ZONING : HD-CIV-CZ (HERITAGE DISTRICT-CIVIC HERITAGE DISTRICT)
JURISDICTION : MARVIN
FRONT SETBACK : 75' FROM R/W
SIDE SETBACK : 50'
REAR SETBACK : 40'
VIEWSHED BUFFER : 85' FROM R/W

12 MILE SERVICE AREA : NO
FIRE DISTRICT : WESLEY CHAPEL
FEMA PANEL : 4455

PARKING CALCULATION:
EXISTING VILLAGE HALL (CIVIL FACILITIES USE):
1 SPACE / 350 SF = 6,098 SF / 350 SF = 17.4 SPACES

PROPOSED PARK (ATHLETIC FIELD USE):
1 SPACE / 2,500 SF = 30,000 SF / 2,500 SF = 12.0 SPACES

TOTAL REQUIRED PARKING = 30 SPACES
TOTAL PROVIDED PARKING = 30 SPACES
28 STANDARD
2 ACCESSIBLE

BUILT UPON AREA (BUA) SUMMARY:
SITE AREA : 151,567 SF
PRE-PROJECT BUA : 24,350 SF
BUA REMOVED : 120 SF
PROPOSED BUA : 0 SF
SIDEWALKS : 0 SF
PARKING : 0 SF
OTHER : 0 SF

POST PROJECT BUA : 24,230 SF
POST PROJECT BUA% : 16.0%

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Phone: 704.509.9918
Fax: 704.509.9937
www.dewberry.com
NCBELS #F-0929
NCBOLA #C-478

VILLAGE OF MARVIN
VILLAGE HALL PARK PHASE 1

100% CONSTRUCTION DOCUMENTS

10006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA

SEAL

ORTH CAROLINA PROFESSIONAL ENGINEER
PRELIMINARY - DO NOT USE FOR CONSTRUCTION
MARVIN M. LaFRANCHI
6/4/2025
FOR BIDDING ONLY

KEY PLAN:

SCALE: 1" = 30'

0' 30' 60'

REVISIONS			
NO.	DATE	BY	DESCRIPTION
Δ	06/04/25	DLJ	AGENCY COMMENTS
Δ	02/24/25	DLJ	95% REVIEW SET
Δ	01/28/25	DLJ	70% REVIEW SET
Δ	11/08/24	BML	30% REVIEW SET

DRAWN BY: BJN
APPROVED BY: BML
CHECKED BY: DLJ
DATE: AUGUST 28, 2024
TITLE:

SITE PLAN

DEI PROJECT NO: 50181675

SHEET NO.

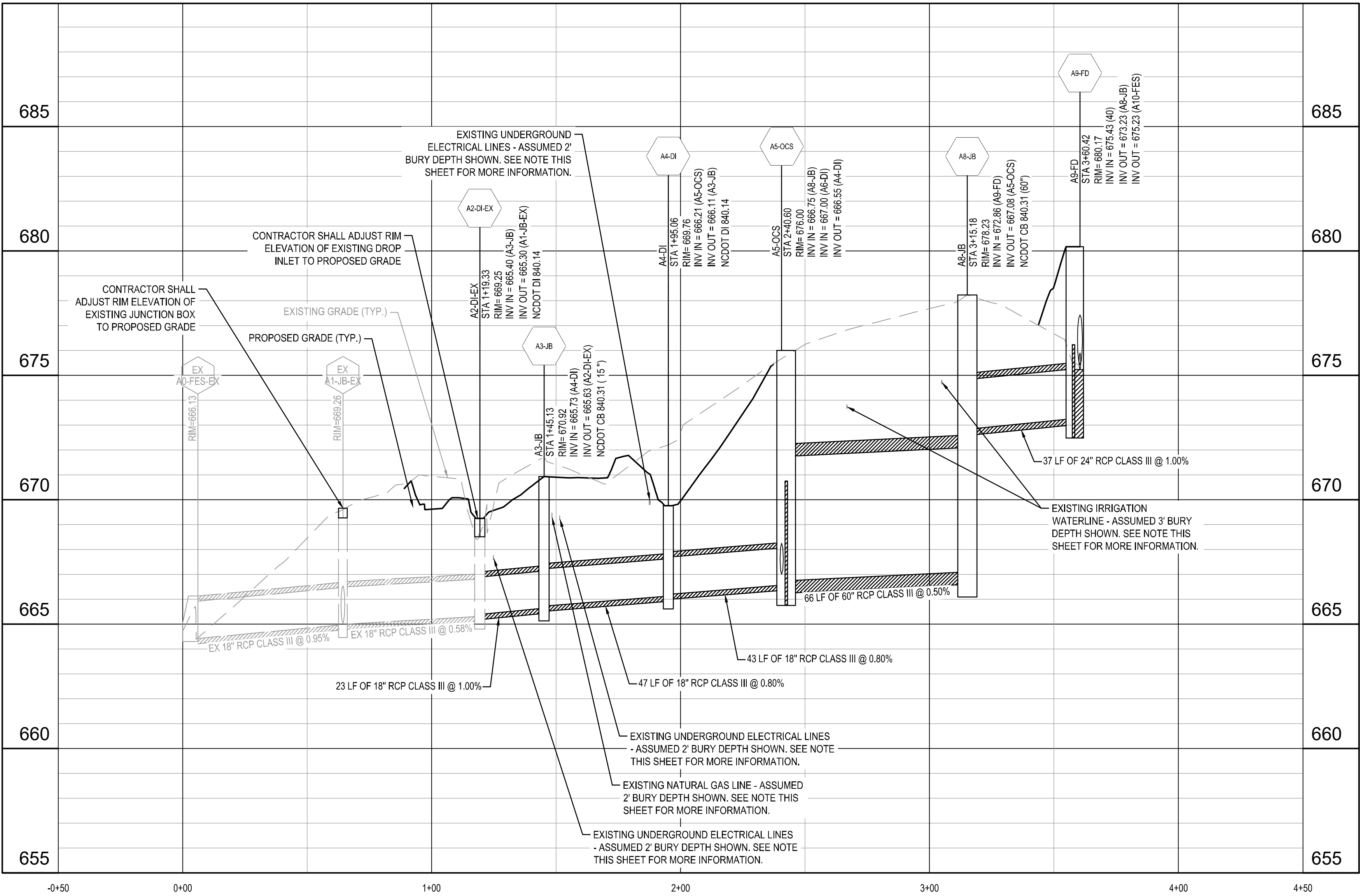
811
Know what's below.
Call before you dig.

C2.01

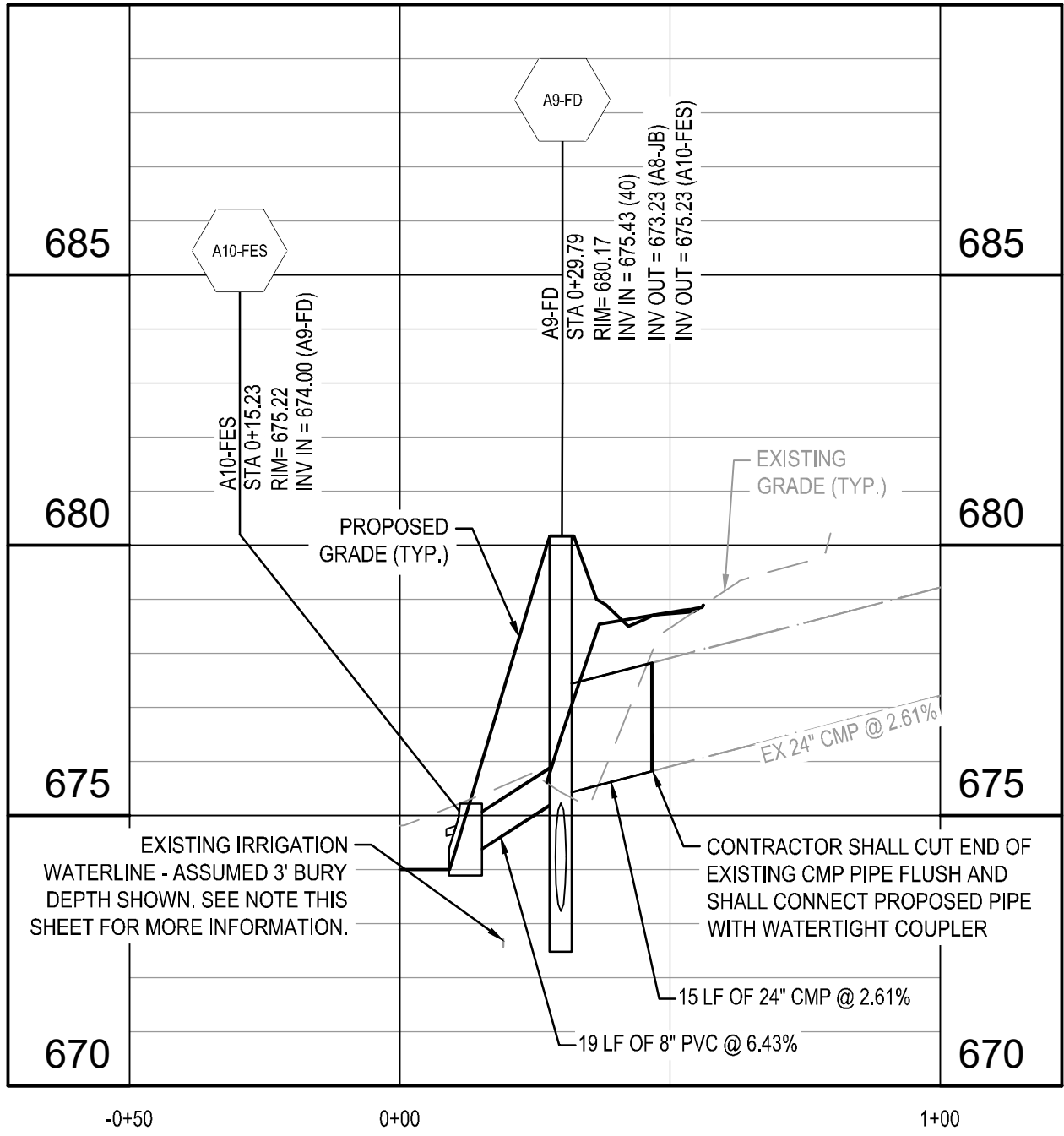
C3.01



A0-FES-EX TO A9-FD



A10-FES TO A9-FD



NOTE:

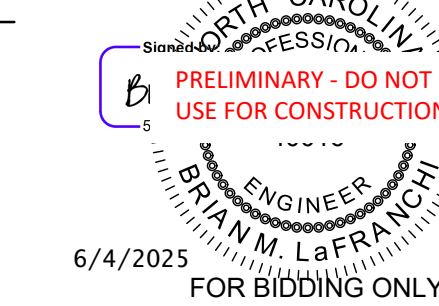
LOCATION OF EXISTING UTILITIES SHOWN IN STORM PROFILES IS APPROXIMATE AND BASED ON THE ASSUMED BURY DEPTHS NOTED. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND NOTIFY OWNER AND ENGINEER OF ANY DISCREPANCIES.



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VILLAGE OF MARVIN
VILLAGE HALL PARK PHASE 1
100% CONSTRUCTION DOCUMENTS
10006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA

SEAL



KEY PLAN:

SCALE: HORIZONTAL: 1" = 30'



VERTICAL: 1" = 3'



REVISIONS

NO.	DATE	BY	DESCRIPTION
1	06/04/25	DLJ	AGENCY COMMENTS
2	02/24/25	DLJ	95% REVIEW SET
3	01/28/25	DLJ	70% REVIEW SET

DRAWN BY: BJN
APPROVED BY: BML
CHECKED BY: DLJ
DATE: AUGUST 28, 2024
TITLE:

STORM PROFILES

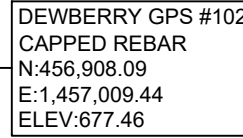
DEI PROJECT NO: 50181675

SHEET NO.

C3.02

A

- EXISTING RIPRAP
- EXISTING WETLAND
- EXISTING SIGN
- EXISTING GROUND LIGHT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED TEMPORARY DIVERSION
- PROPOSED SILT FENCE
- PROPOSED BAFFLE
- PROPOSED SILT FENCE STONE OUTLET
- PROPOSED RIP RAP APRON
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED CONCRETE WASHOUT
- PROPOSED CHECK DAM
- PROPOSED STONE RING
- PROPOSED INLET PROTECTION





NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

SCALE:

TITLE

SHEET NO.

C6.01



PERVIOUS CONCRETE SIDEWALK
N.T.S.

HIKING TRAIL
N.T.S.

GROOVE JOINT IN SIDEWALK

TRANSVERSE EXPANSION JOINT IN SIDEWALK

CONCRETE SIDEWALK WITH PLANTER STRIP

DETAILS SHOWING EXPANSION JOINTS

FOR CONCRETE SIDEWALK

	STD. 3.01
--	--------------

REVISIONS			
NO	DATE	BY	COMMENT

CONCRETE SIDEWALK

VILLAGE OF
MARVIN, NC

STD.
3.01



Dewberry Engineers Inc.

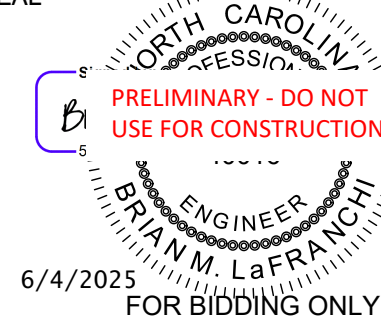
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VILLAGE OF MARVIN
VILLAGE HALL PARK PHASE 1

100% CONSTRUCTION DOCUMENTS





0006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA

SEAL



KEY PLAN:

SCALE

REVIEWS			
	06/04/25	DLJ	AGENCY COMMENTS
	02/24/25	DLJ	95% REVIEW SET
	01/28/25	DLJ	70% REVIEW SET
	11/08/24	BML	30% REVIEW SET
NO.	DATE	BY	DESCRIPTION

DRAWN BY BJN

APPROVED BY BML

CHECKED BY DLJ

DATE AUGUST 28, 2024

TITLE

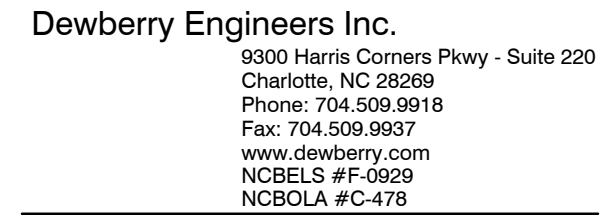
SITE DETAILS

DEI PROJECT NO: 50181675

SHEET NO.

C6.03





100% CONSTRUCTION DOCUMENTS

10006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA

PRELIMINARY - DO NOT
USE FOR CONSTRUCTION

KEY PLAN:

SCALE

DRAWN BY	<u>BJN</u>
APPROVED BY	<u>BML</u>
CHECKED BY	<u>DLJ</u>
DATE	<u>AUGUST 28, 2024</u>

TITLE

DEI PROJECT NO: 50181675

SHEET NO.

C6.05



Diameter (inches)	Minimum cover (inches)	(Ga)	Maximum Height of Cover (feet)			
			15	14	12	10
12	12	123	155	218	281	344
15	12	98	123	174	224	275
18	12	81	102	144	187	228
21	12	69	87	123	160	195
24	12	60	76	108	139	171
27	12		67	95	123	151
30	12		60	85	111	136
36	12		50	71	92	113
42	12				60	78
48	12				52	68
54	12				48	60
60	12				50	62
66	12					51
72	12					41

REFER TO THE FOLLOWING FOR PIPE SPECIFICATIONS

CSP	-	AASHTO	M36
CAAP	-	AASHTO	M196
HDPE	-	AASHTO	M294
PVC	-	ASTM	F949 or AASHTO M304

NOTES: FILL HEIGHTS SHOWN WERE CALCULATED USING
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

1' MINIMUM COVER FOR ALL SIDE DRAIN PIPE
IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS

REFER TO THE FOLLOWING FOR PIPE SPECIFICATIONS
RCP - AASHTO M170

NOTES: FILL HEIGHTS SHOWN WERE CALCULATED USING
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

1' MINIMUM COVER FOR ALL SIDE DRAIN PIPE
IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS

PVC

- * (Minimum fill) 2' for pipe diameters $\geq 12"$ and $\leq 36"$
- * (Maximum fill) 30' for pipe diameters $\geq 12"$ and $\leq 36"$

* FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE

RCP - * (Minimum fill) 1' for Class IV & CLASS V
2' for Class III & Class II

* (Maximum fill) 10' - Class II pipe
20' - Class III pipe
30' - Class IV pipe
40' - Class V pipe

(For fills > 40' & < 80' use LRFD Direct Design Method)

* FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE

ROADWAY STANDARD DRAWING FOR	1-18	STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
METHOD OF PIPE INSTALLATION FILL HEIGHT TABLES		
SHEET 3 OF 3 300.01		

SHEET 3 OF 3
300.01

100% CONSTRUCTION DOCUMENTS

0006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA



SCALE:

DRAWN BY	<u>BJN</u>
APPROVED BY	<u>BML</u>
CHECKED BY	<u>DLJ</u>
DATE	<u>AUGUST 28, 2024</u>

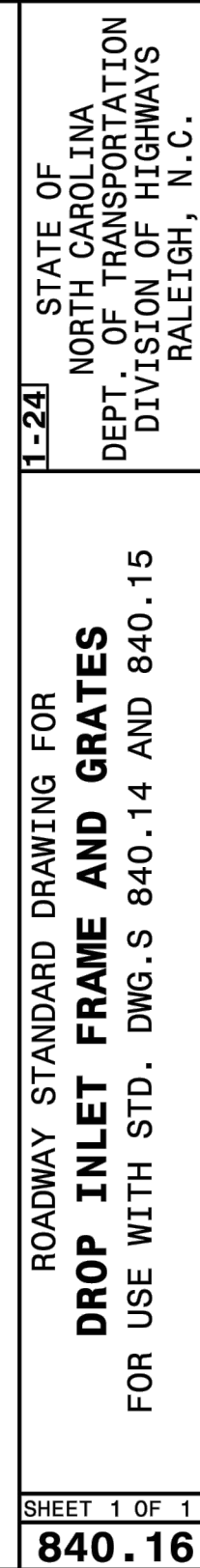
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STORMWATER
DETAILS
(SHEET 3 OF 4)

DEI PROJECT NO: 50181675

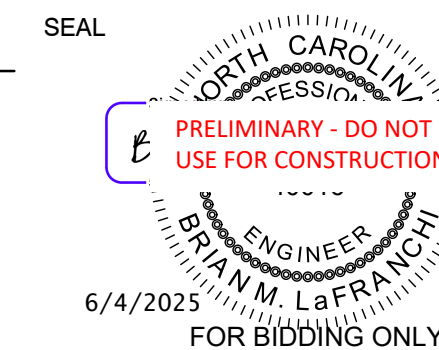
SHEET NO.

C6.06



100% CONSTRUCTION DOCUMENTS

0006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA



KEY PLAN:

SCALE

[illegible]DRAWN BY BJN

APPROVED BY BML

— CHECKED BY DLJ

DATE AUGUST 28, 2024

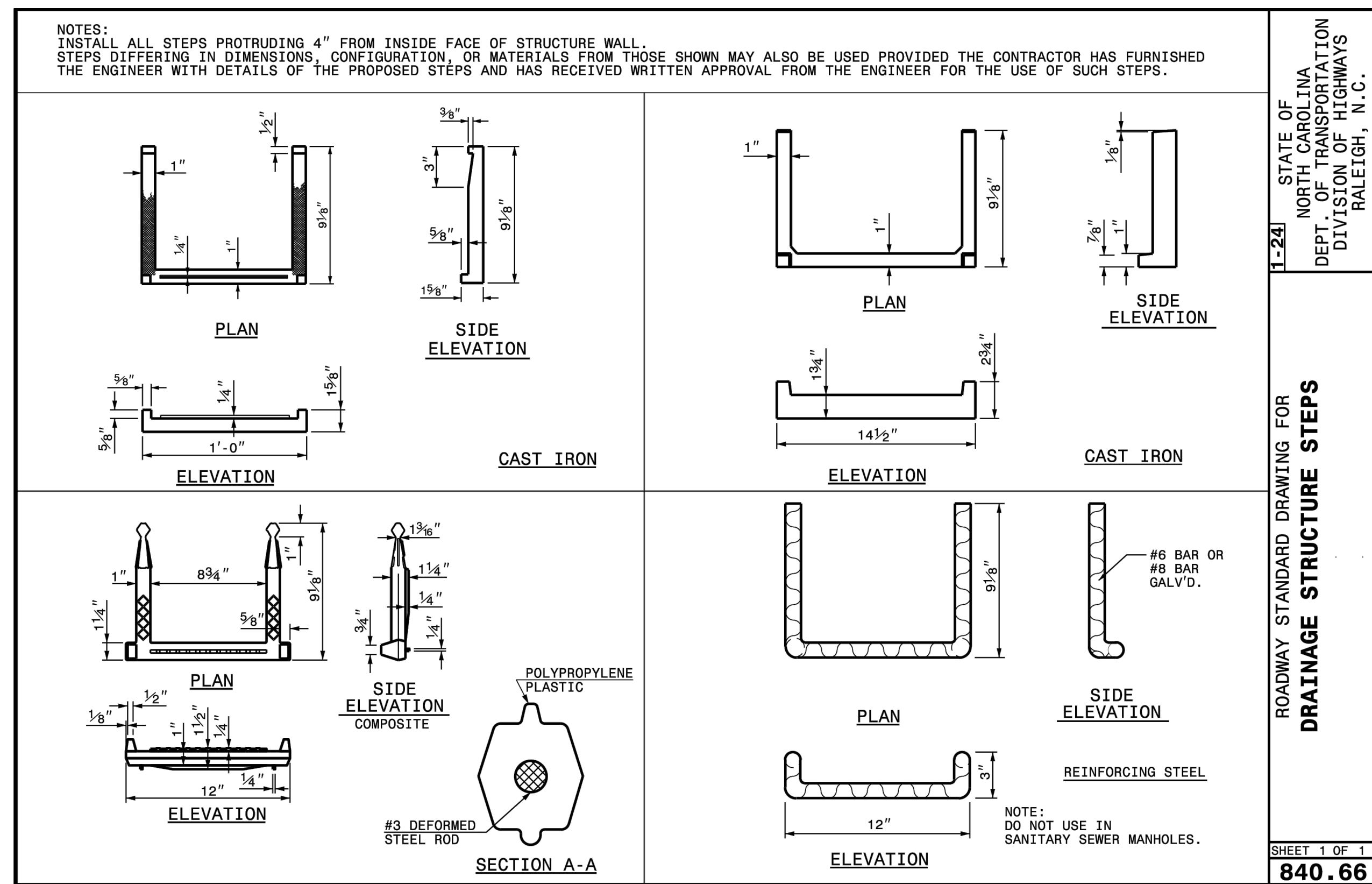
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STORMWATER
DETAILS
(SHEET 4 OF 4)

DEI PROJECT NO: 50181675

SHEET NO.

C6.07

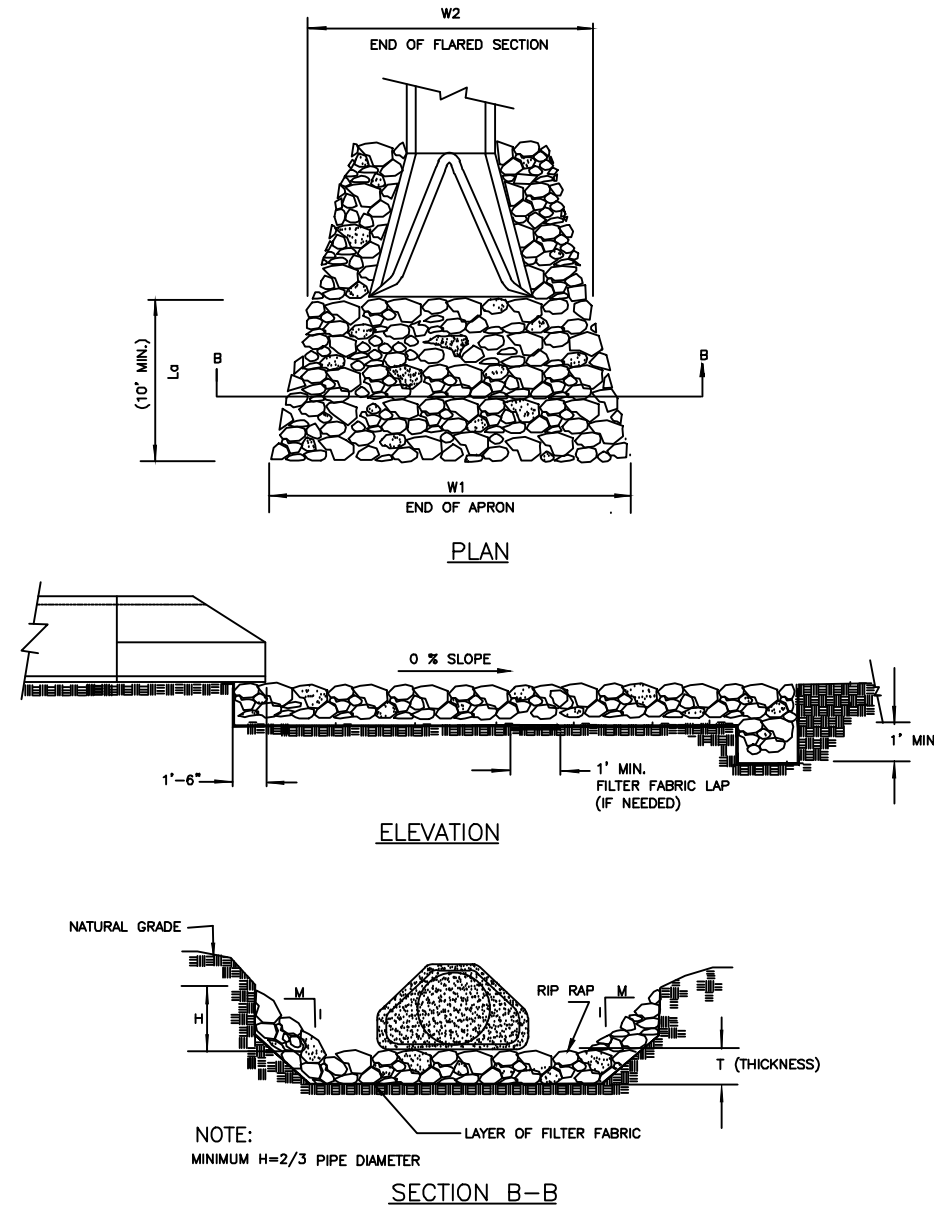


- NOTES:

1. CLASS OR MEDIAN SIZE OF RIPRAP AND LENGTH, WIDTH AND DEPTH OF APRON TO BE DESIGNED BY THE ENGINEER.
 2. REFER TO THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCEQ) EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL SECTION 6.401 FOR RIPRAP APRON DESIGN STANDARDS.
 3. RIPRAP SHOULD EXTEND UP BOTH SIDES OF THE APRON AND AROUND THE END OF THE PIPE OR CULVERT AT THE DISCHARGE OUTLET AT A MAXIMUM SLOPE OF 2:1 AND A HEIGHT NOT LESS THAN TWO THIRDS THE PIPE DIAMETER OR CULVERT HEIGHT.
 4. THERE SHALL BE NO OVERFLOW FROM THE END OF THE APRON TO THE SURFACE OF THE RECEIVING CHANNEL. THE AREA TO BE PAVED OR RIPRAPPED SHALL BE UNDERDUT SO THAT THE INVERT OF THE APRON SHALL BE AT THE SAME GRADE (FLUSH) WITH THE INVERT OF THE RECEIVING CHANNEL. THE APRON SHALL HAVE A CUTOFF OR TOE WALL AT THE DOWNSTREAM END.
 5. THE WIDTH OF THE END OF THE APRON SHALL BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL MAXIMUM TAPER TO RECEIVING CHANNEL 5:1.
 6. ALL SUBGRADE FOR STRUCTURE TO BE COMPACTED TO 95% OR GREATER.
 7. THE PLACING OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL, SHALL NOT BE ALLOWED.
 8. NO BENDS OR CURVES IN THE HORIZONTAL ALIGNMENT OF THE APRON WILL BE PERMITTED.
 9. FILTER FABRIC SHALL BE INSTALLED ON COMPACTED SUBGRADE PRIOR TO PLACEMENT OF RIPRAP.
 10. ANY DISTURBED AREA FROM END OF APRON TO RECEIVING CHANNEL SHALL BE STABILIZED.
- USE USDA NO. 100 PHOTOGRAPH FROM NC SEDIMENT AND EROSION CONTROL MANUAL FOR DESIGN DATA

RIP RAP SUMMARY CHART					
OUTLET	L _o	W1	W2	T*	H
A10-FES	10.0'	11.0'	2.0'	1.0'	0.5'
A0-FES-EX	10.0'	11.5'	4.5'	1.0'	1.0'

* d50 (see Fig 8.06 a&b) NC SEDIMENT AND EROSION CONTROL MANUAL
 $d_{max} = 1.5 \times d_{50}$
 $T = 1.5 \times d_{max}$



RIPRAP APRON AT PIPE OUTFALLS

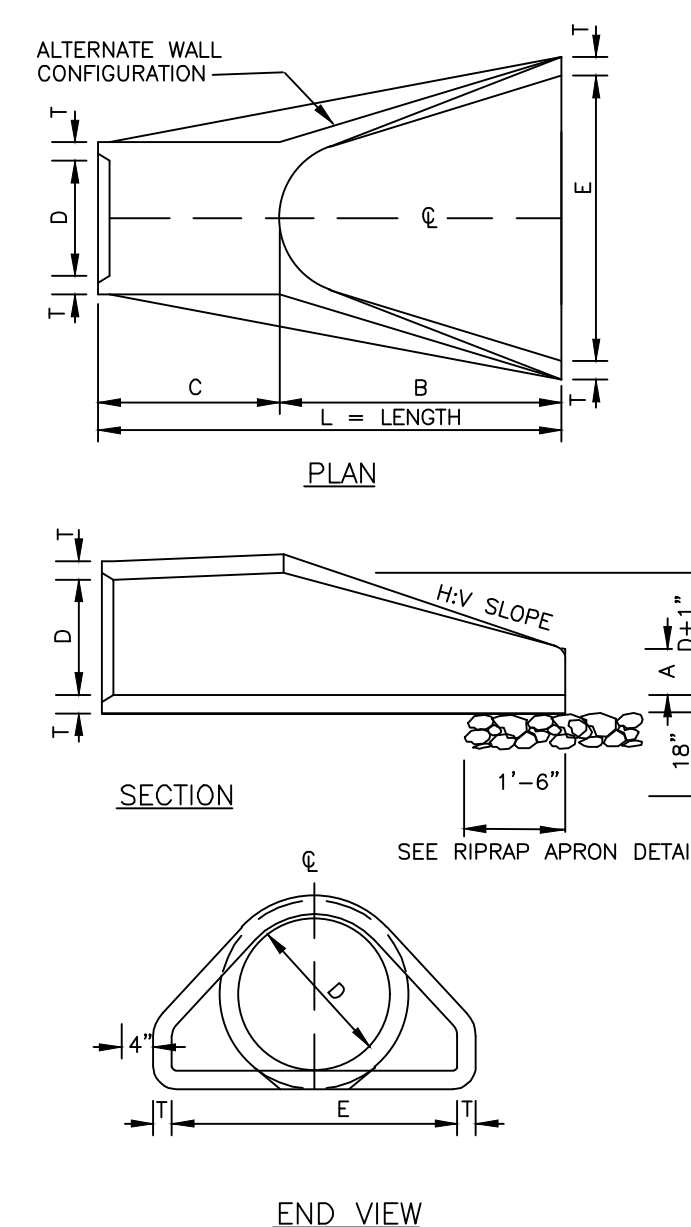


TABLE OF DIMENSIONS								
D	T	A	B	C	E	L	HV	WT.
12"	2-1/4"	4"	2-0"	3-1"	2-0"	6-11"	3:1	730
15"	2-1/4"	6"	2-3"	3-10"	2-0"	6-11"	3:1	730
16"	2-1/2"	9"	2-3"	3-10"	3-0"	6-11"	3:1	1170
24"	3"	10"	3-8"	2-6"	4-0"	6-2"	3:1	1990
30"	3-1/2"	12-0"	4-6"	1-8"	5-0"	6-2"	3:1	2380
36"	4"	1-3"	5-3"	2-11"	6-0"	8-2"	3:1	5320
42"	4-1/2"	1-9"	5-3"	2-11"	6-6"	8-2"	3:1	9920
48"	5"	2-0"	6-0"	2-2"	7-0"	8-2"	3:1	7470
54"	5-1/2"	2-6"	5-6"	2-10"	7-6"	8-4"	3:1	8810
60"	6"	2-8"	5-0"	3-3"	8-0"	8-3"	3:1	11810
66"	6-1/2"	3-3"	5-0"	3-9"	9-0"	8-3"	3:1	12530
72"	7"	3-0"	6-6"	1-9"	9-0"	8-3"	3:1	1990

GENERAL NOTES

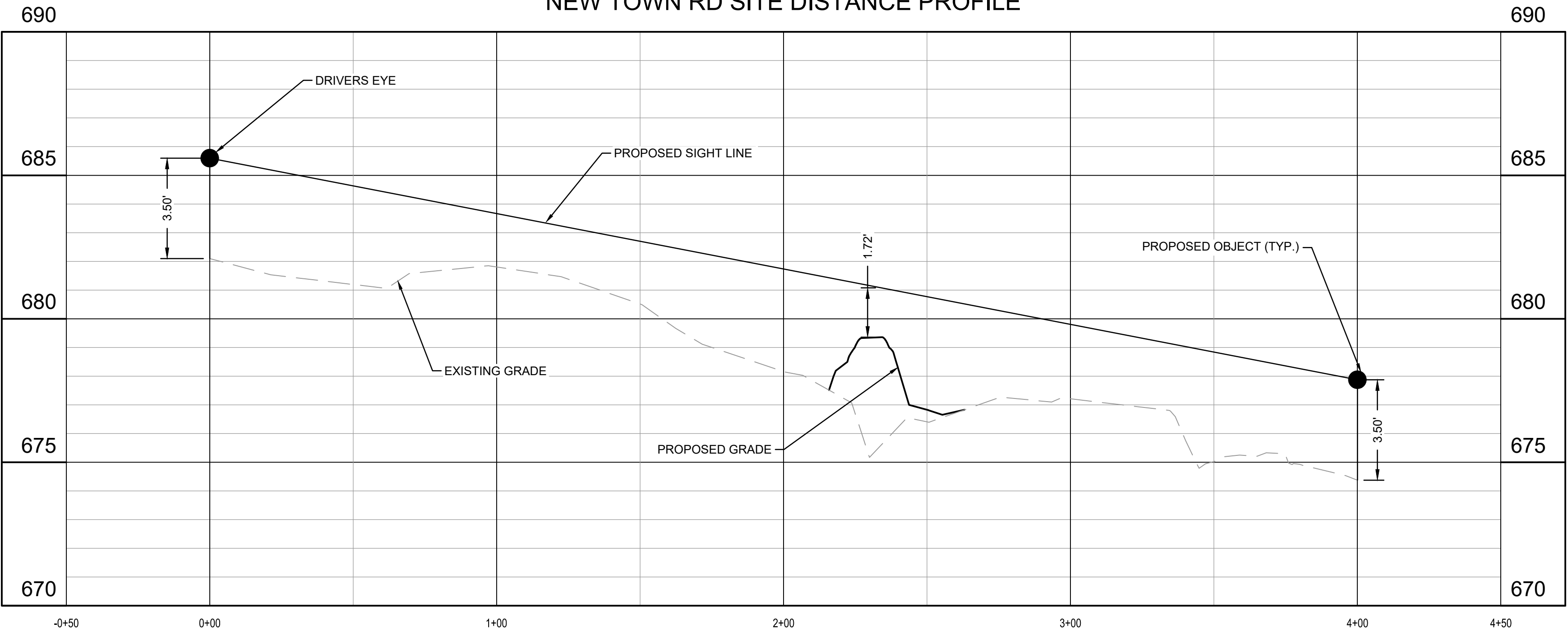
1. SEE FORMER NCDOT STANDARD 310.01 FOR DETAILS.
2. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER ASHOTO M170, TABLE 2, WALL B.
3. ALL CONCRETE TO BE 4000 P.S.I COMPRESSIVE STRENGTH.
4. PROVIDE TONGUE OR SPIGOT JOINT AT INLET END SECTION.
5. PROVIDE GROOVE OR BELL JOINT AT OUTLET END SECTION.
6. THE DIMENSIONS FOR END SECTIONS SHALL SUBSTANTIALLY AGREE WITH THE TABLE. MINOR VARIATIONS WILL BE PERMITTED BASED ON THE MANUFACTURER'S STANDARD FORMS AND TEMPLATES.
7. NOT TO BE USED IN NCDOT MAINTAINED RIGHT OF WAY.

NOT TO SCALE

FLARED END SECTION
12" THRU 72" PIPE

NOTE TO OWNER:
OWNER IS RESPONSIBLE TO REMOVE EXISTING TREES/OBSTRUCTIONS LOCATED WITHIN SIGHT LINE. PERMISSION FROM ADJACENT PROPERTY OWNER IS REQUIRED PRIOR TO TREE/OBSTRUCTIONS REMOVAL FROM ADJACENT PROPERTY. IF TREES ARE ONLY TRIMMED AND NOT FULLY REMOVED AN EASEMENT WILL BE REQUIRED IN ORDER TO MAINTAIN CLEAR SIGHT DISTANCE.

NEW TOWN RD SITE DISTANCE PROFILE



SCALE:
H: 1" = 30'
V: 1" = 3'



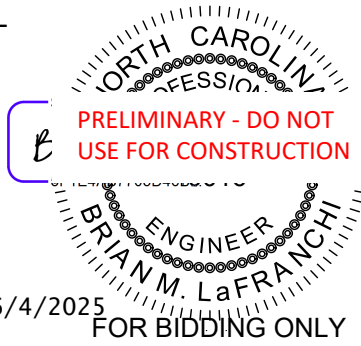
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VILLAGE OF MARVIN
VILLAGE HALL PARK PHASE 1

100% CONSTRUCTION DOCUMENTS

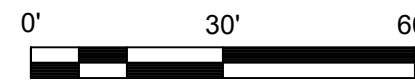
10006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA

SEAL



KEY PLAN:

SCALE: 1" = 30'



REVISIONS

NO.	DATE	BY	DESCRIPTION
△	06/04/25	DLJ	AGENCY COMMENTS
△	02/25/25	DLJ	95% REVIEW SET

DRAWN BY: BJN
APPROVED BY: BML
CHECKED BY: DLJ
DATE: AUGUST 28, 2024

TITLE

SIGHT DISTANCE
PLAN & PROFILE

DEI PROJECT NO: 50181675

SHEET NO.

C7.01



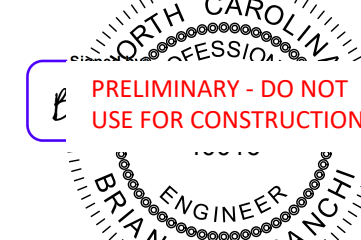
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VILLAGE OF MARVIN
VILLAGE HALL PARK PHASE 1

100% CONSTRUCTION DOCUMENTS

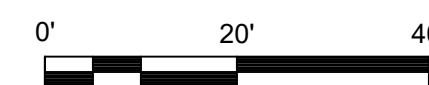
0006 MARVIN SCHOOL ROAD
MARVIN NORTH CAROLINA

SEAL



KEY PLAN:

SCALE: 1" = 20'



REVISIONS

4	06/04/25	DLJ	AGENCY COMMENTS
3	02/24/25	DLJ	95% REVIEW SET
2	01/28/25	DLJ	70% REVIEW SET
1	11/08/24	BML	30% REVIEW SET
NO.	DATE	BY	DESCRIPTION

DRAWN BY	<u>BJN</u>
APPROVED BY	<u>BML</u>
CHECKED BY	<u>DLJ</u>
DATE	<u>AUGUST 28, 2024</u>
<hr/>	
TITLE	

LANDSCAPING PLAN

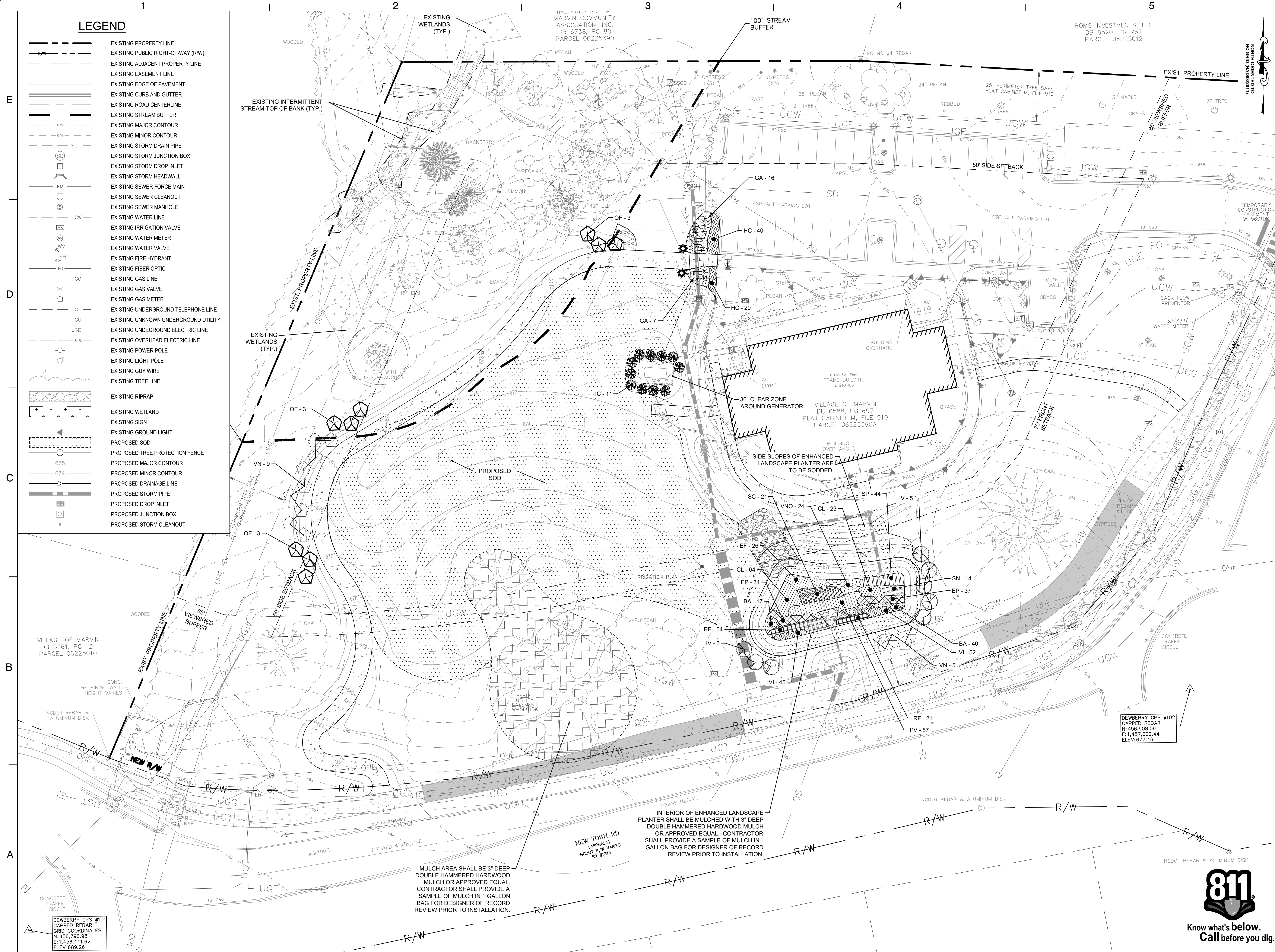
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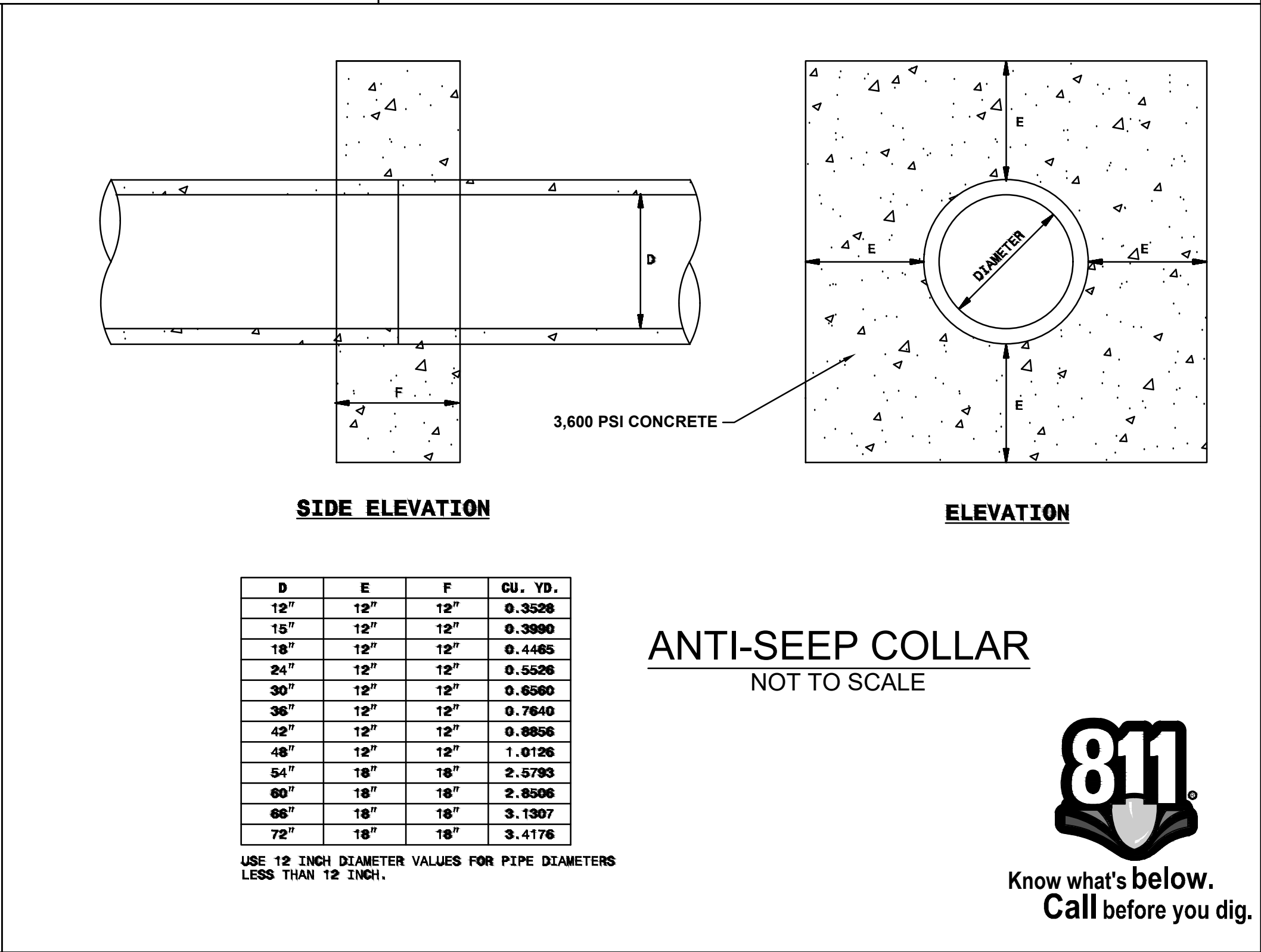
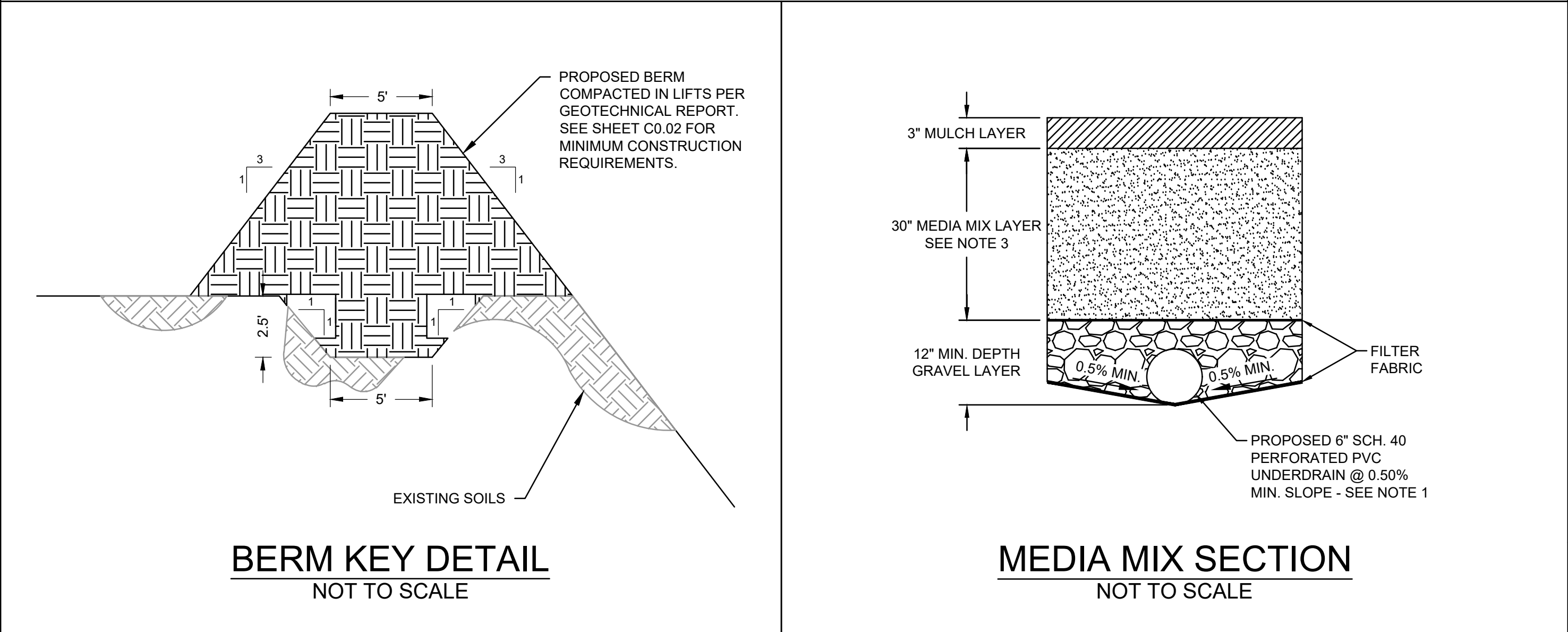
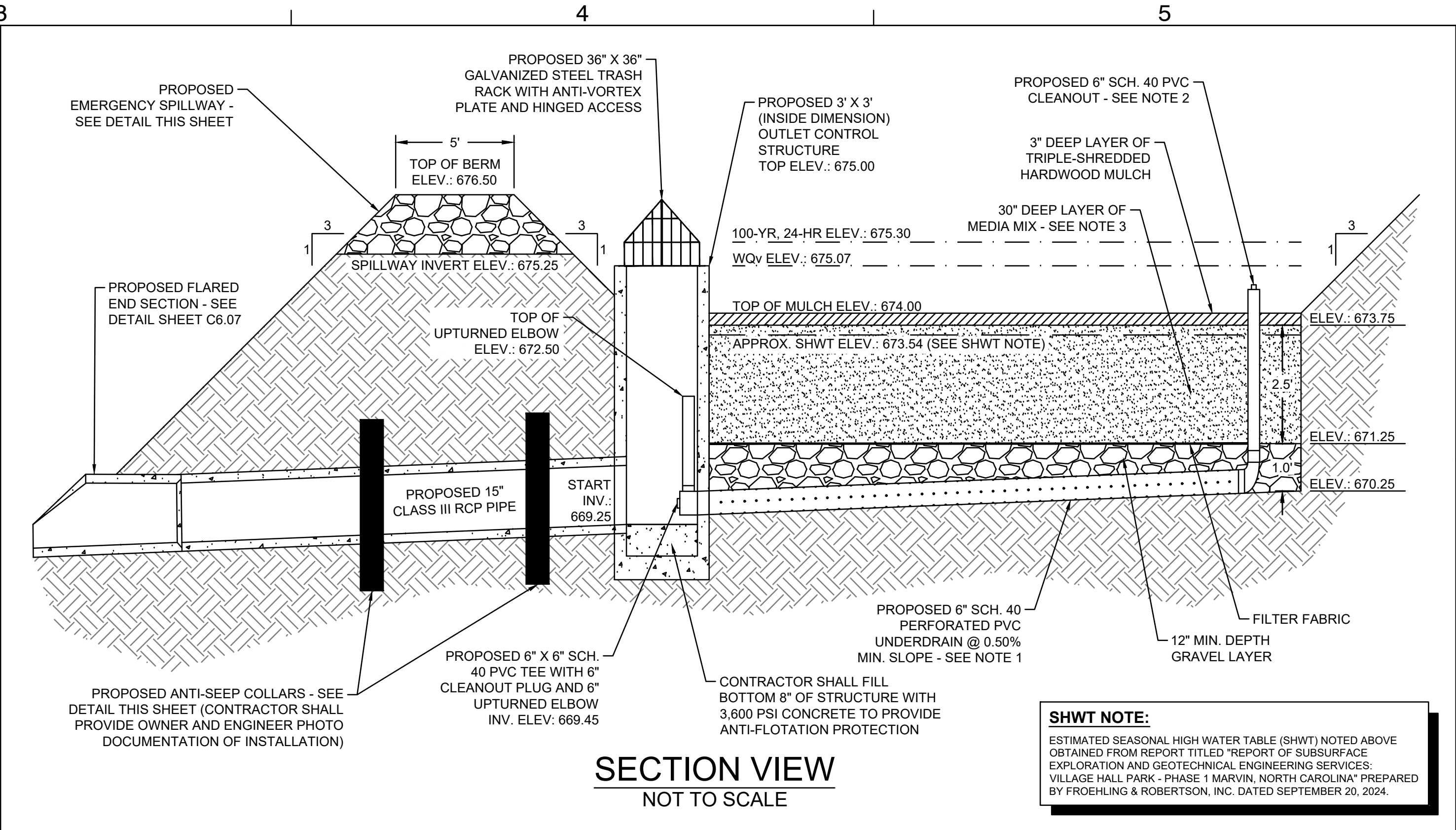
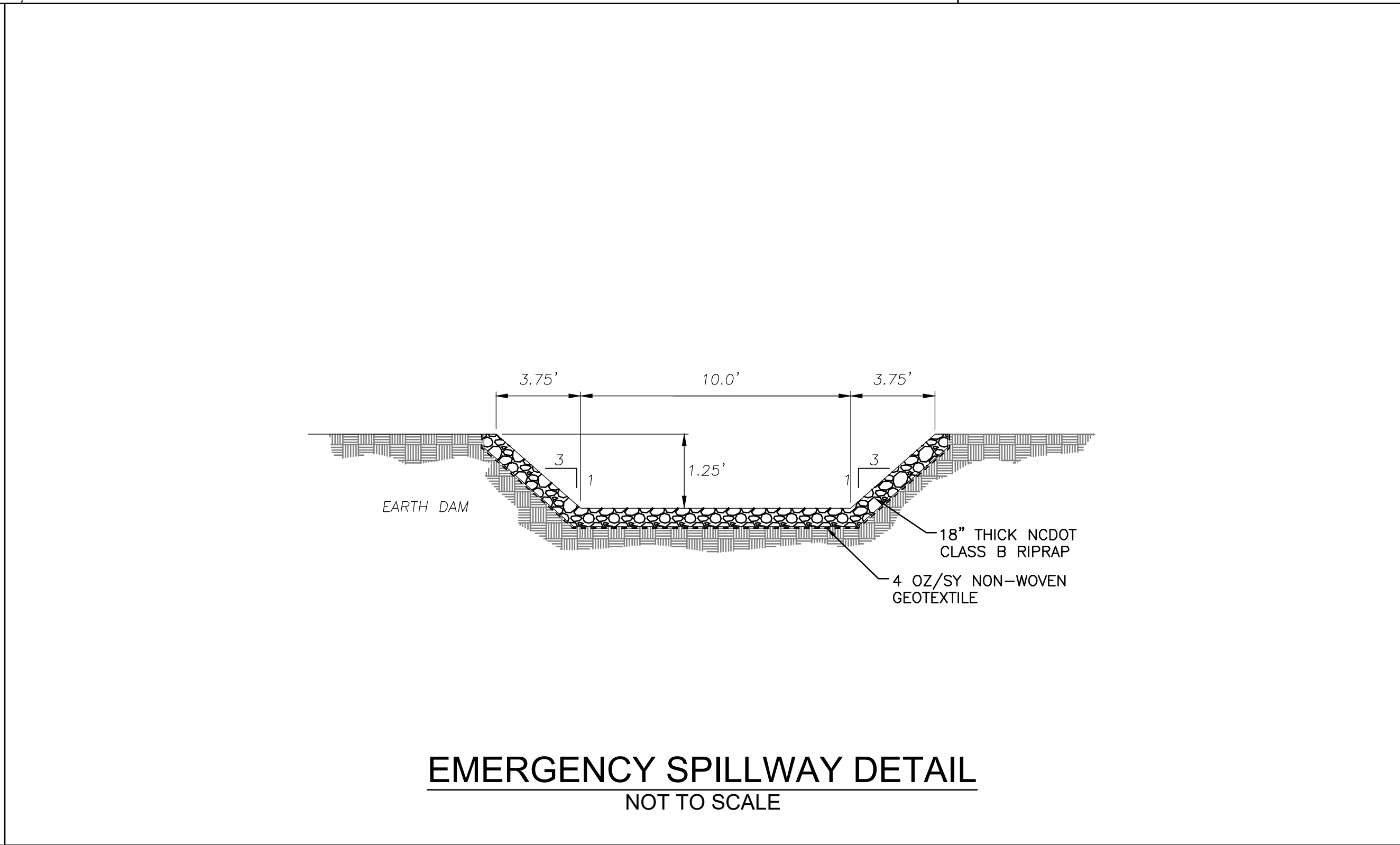
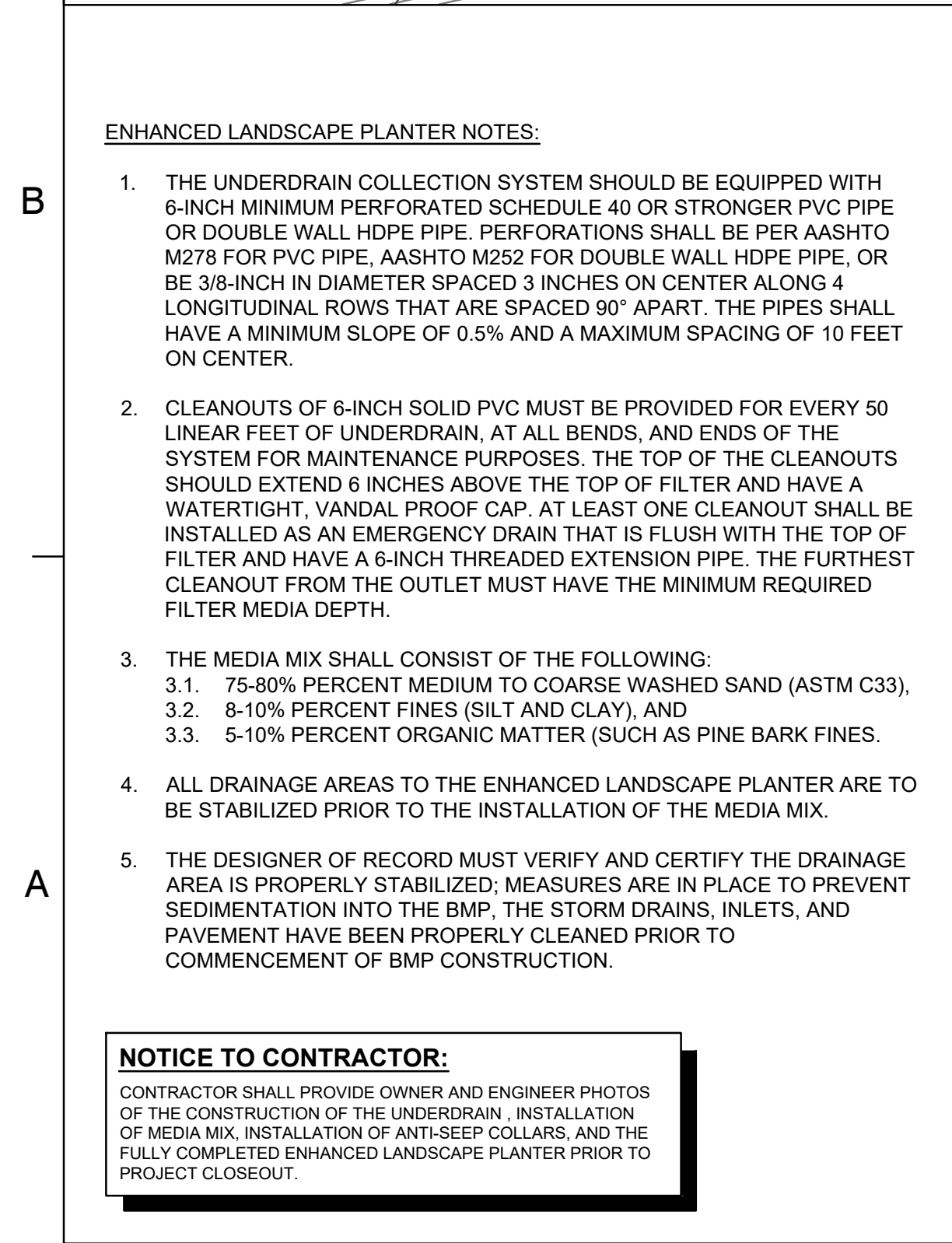
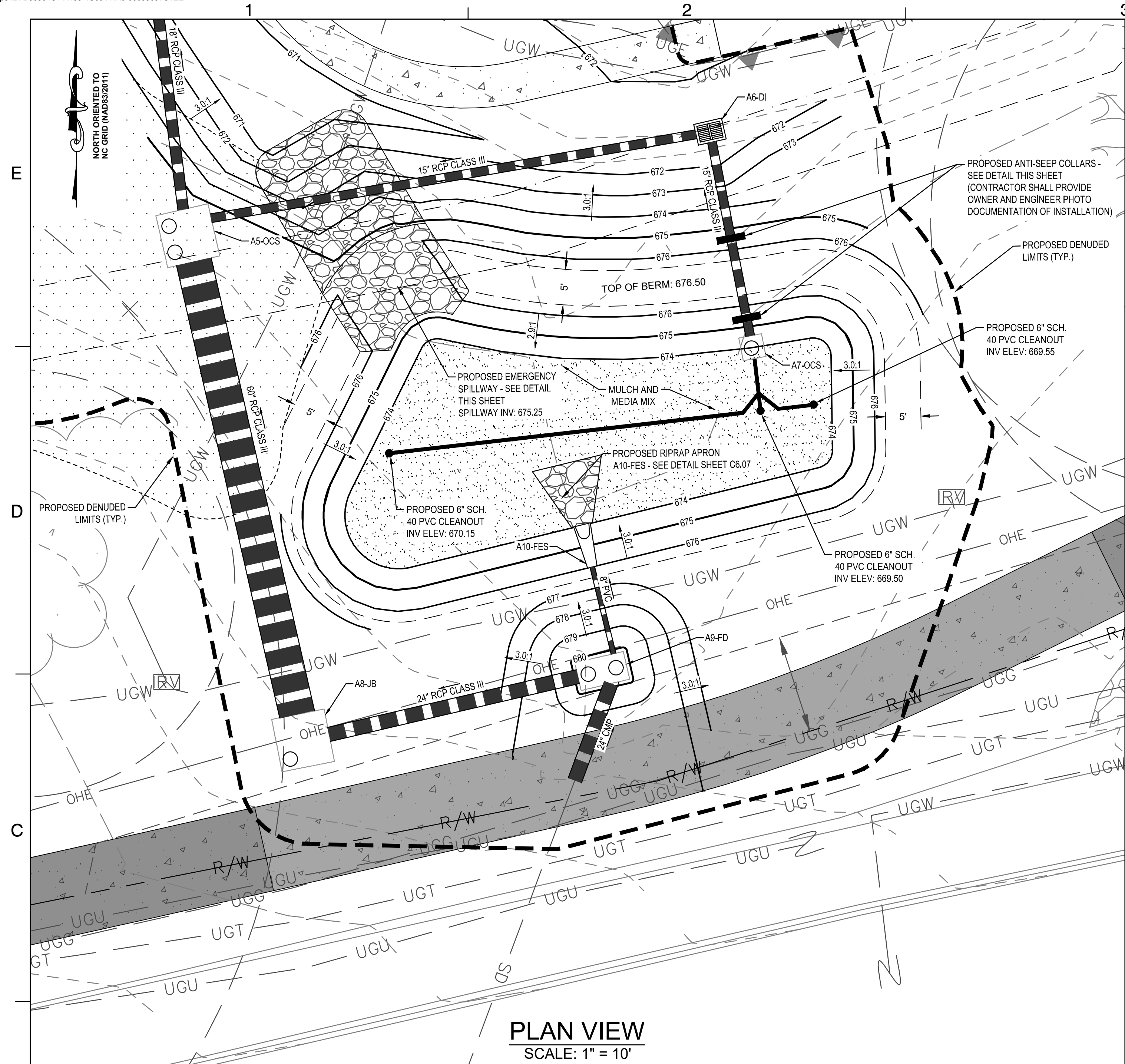
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VILLAGE OF MARVIN
VILLAGE HALL PARK PHASE 1

100% CONSTRUCTION DOCUMENTS

10006 MARVIN SCHOOL ROAD
MARVIN, NORTH CAROLINA

SEAL

PRELIMINARY - DO NOT
USE FOR CONSTRUCTION

6/4/2025
FOR BIDDING ONLY

KEY PLAN:

SCALE: 1" = 10'

0' 10' 20'

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	06/04/25	DLJ	AGENCY COMMENTS
2	02/24/25	DLJ	95% REVIEW SET
3	01/28/25	DLJ	70% REVIEW SET

DRAWN BY: BJN
APPROVED BY: BML
CHECKED BY: DLJ
DATE: AUGUST 28, 2024

TITLE: ENHANCED LANDSCAPE PLANTER DETAILS (ELP-1)

DEI PROJECT NO: 50181675

SHEET NO.

811

Know what's below.
Call before you dig.

L1.02

