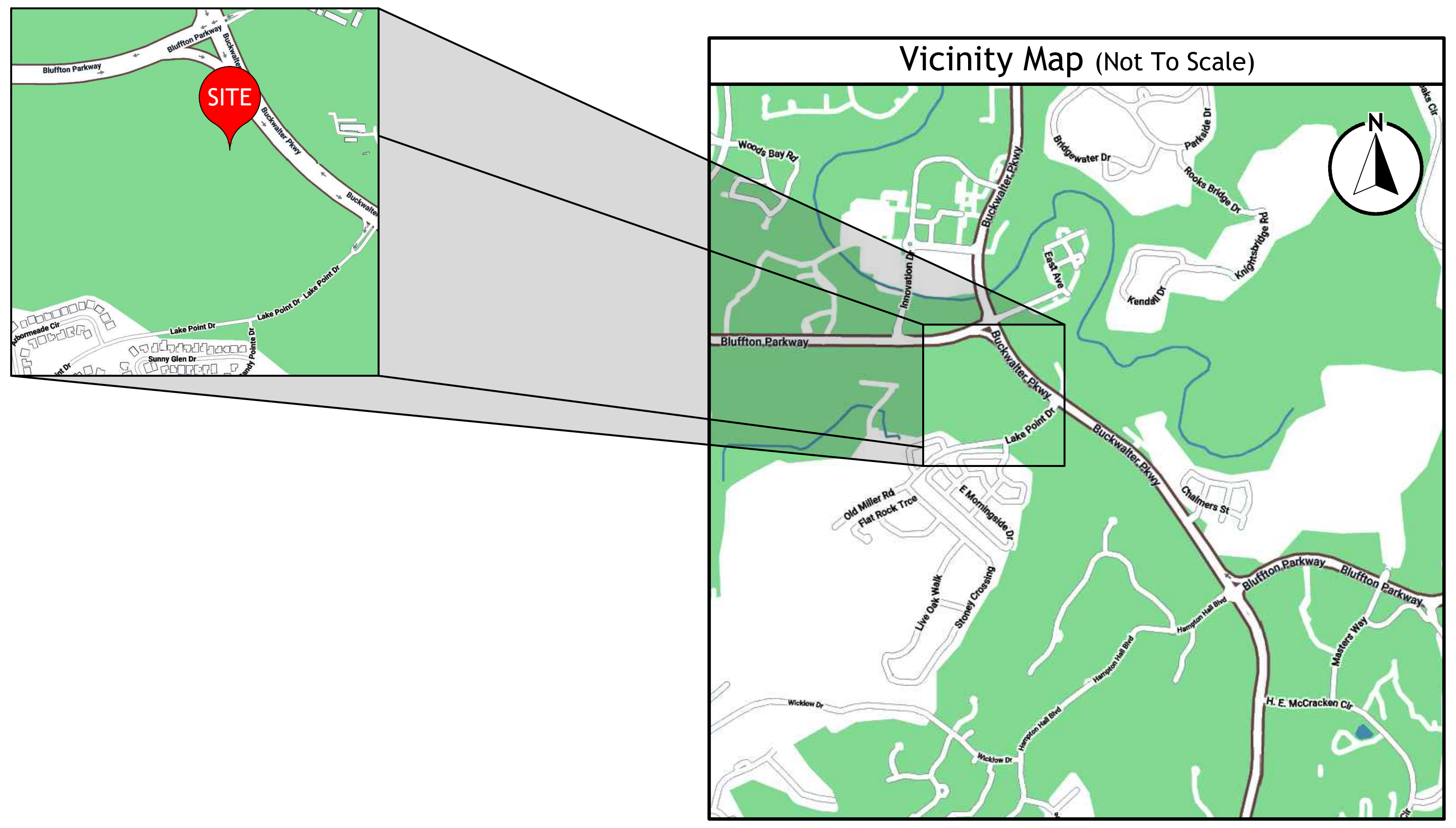
ATTACHMENT 7



Vicinity Map (Not To Scale)

Buckwalter Parkway Hospital
BJWSA Project #: 2026-001

Permit Set - NOT FOR CONSTRUCTION

Site Development Plans

for

Bluffton Medical Center

Usage: commercial

Release Schedule

Rel #	Description	Date
A.	Schematic Design Package	04-07-25
B.	Released for Permitting	07-03-25
C.	Released for Permitting	07-29-25
D.	Released for Permitting	08-01-25
E.	Released for Permitting	08-21-25
F.	Released for Permitting	09-05-25
G.	Released for Permitting	09-19-25
H.	Released for Permitting	10-03-25
I.	Released for Permitting	12-19-25
J.	Schematic Design Package	01-23-26

Town of Bluffton, South Carolina

Tax Map #:R610 029 000 2487 0000, R600 029 000 2410 0000

911 street address: Buckwalter Pkwy

GIS coord: N32° 15' 54", W80° 54' 48"

Schedule of Drawings

Sht No.	Description
C001	Civil - Cover Sheet
C002	Civil - Construction Notes
C003	Civil - Sheet Index
C101-C102	Civil - Existing Conditions Plans
C201-C202	Civil - Initial Erosion Control Plans
C203	Civil - Initial Erosion Control Details
C301-C302	Civil - Clearing & Demolition Plans
C401-C402	Civil - Site Layout Plans
C501-C502	Civil - Grading Plans
C601-C602	Civil - Drainage Plans
C603-C604	Civil - Drainage Plans Details
C700	Civil - Overall Utility Plan
C701-C702	Civil - Utility Plans
C703-C705	Civil - Utility Details
C706	Civil - Utility Profiles
C801-C802	Civil - Intermediate Erosion Control Plans
C803	Civil - Intermediate Erosion Control Details
C901-C902	Civil - Paving Plans
C903-C904	Civil - Paving Details
C905	Civil - Road Profiles
C1001-C1002	Civil - Final Erosion Control Plans
C1101	Civil - ADA Accessible Route Plan

Design Team

Wetland Consultant:	Geotechnical Engineer:	Landscape Architect:	Architect:	Land Surveyor:	Developer:
Newkirk Environmental	Whitaker Laboratory, Inc.	Whitmer Jones Keefer, Ltd.	Stantec	Atlas Surveying, Inc.	Novant Health
843.388.6585	912.234.0696	843.757.7411	469.621.4780	843.645.9277	Matthew Stiene | Senior Vice President, Construction & Facility Services
					mhstiene@novanthealth.org
					704.316.4351

CONTACT 811 BEFORE YOU DIG
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1800 Main Street Suite 123
Dallas, TX 75201
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FAX 214 522 4380

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SAVANNAH, GA 31405

912-234-0696

PAGE | STANTEC CONSULTANT TEAM

CIVIL
WARD EDWARDS
119 PALMETTO WAY
UNIT C
BLUFFTON, SC 29910
843-837-5250

LANDSCAPE
WITMER JONES KEEFER
23 PROMENADE STREET
SUITE 201
BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

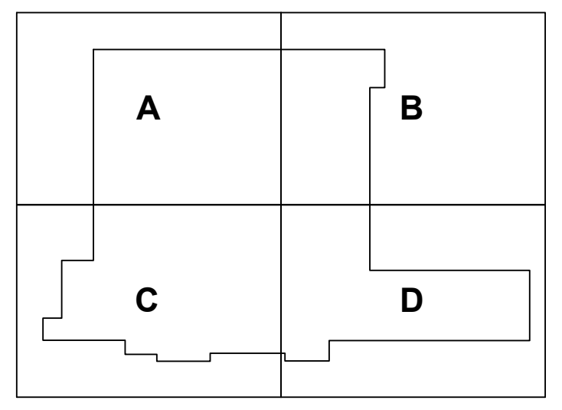
MEP/FP/LV
DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141

PAUL R. MOORE
No. 22816
01/23/26

WARD EDWARDS, INC.
No. C00152

Ward Edwards
ENGINEERING
119C Palmetto Way
P.O. Box 381, Bluffton,
South Carolina 29910
(843) 837-5250
www.WardEdwards.com
WE JOBNUMBER: 230641

KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

INTERIM REVIEW
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF
***** choose ARCHITECT or ENGINEER *****
from list in Family Types
IT IS NOT TO BE USED FOR REGULATORY APPROVAL, BIDDING, PERMIT, OR CONSTRUCTION PURPOSES.

CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL

DRAWN BY	CHECKED BY
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
COVER SHEET

SHEET NUMBER
C-001

ATTACHMENT 7

General Notes:

1. Boundary information provided by as-built, tree and topographic survey, dated December 24, 2025, by Atlas Surveying, Inc..
2. Topographic data provided by Atlas Surveying, Inc., dated December 24, 2025.
3. Approximate location of certain existing underground utility lines and structures are shown on the plans for information only. Additional underground lines or structures may exist that are not shown. Call South Carolina 811 at 811 or 1-888-721-7877 between the hours of 7:00 am and 7:00 pm Monday thru Friday at least three working days before commencing construction. Request underground utilities to be located and marked within and near the construction site.
4. Comply with "South Carolina Underground Facility Damage Prevention Act (effective June 7, 2012). Notification of Intent to excavate may be given by calling the toll free number: 1-800-922-0983.
5. Protect bench marks and property monuments from damage during construction operations. Replace any bench marks or monuments damaged or destroyed as a result of contractor's operations, at no cost to the owner, by a licensed surveyor in the state of South Carolina.
6. Off-street parking for the contractor's employees and authorized visitors to the site must be provided and maintained throughout construction.
7. The contractor is responsible for adhering to weight limits prescribed for all public roads when hauling equipment and materials to and from the project site. Damages to existing pavement due to the contractor's construction operations or improper transportation of materials and equipment shall be the responsibility of the contractor.
8. At least one driving lane on public roads shall remain open to traffic at all times. Traffic lanes will only be closed with the express written consent of the agency having jurisdiction over the roadway. Notify agency having jurisdiction at least 5 days before closing any driving lanes to traffic. Provide traffic control devices, signs and flagmen as required to ensure public safety.
9. Contractor shall coordinate demolition, clearing and construction of improvements to minimize interference with vehicular and pedestrian traffic and with operations of existing facilities.

Water and Sewer Line Construction:

1. All water and sewer line construction shall conform to applicable state and Beaufort Jasper Water and Sewer Authority (BJWSA) requirements, standards and specifications.
2. BJWSA will be responsible for inspection and approval of all water and sewer system construction and for acceptance for operation and maintenance.
3. All utilities shown are approximate locations. The contractor is responsible for notification of all utility owners and for field verification of both horizontal and vertical locations prior to commencing construction. Any damages to existing utilities due to this construction shall be the responsibility of the contractor.
4. Notify the project engineer if conflicts with existing structures require that proposed utilities be relocated.
5. The contractor must notify BJWSA forty-eight (48) hours prior to any construction, inspection or testing of the water distribution system.
6. Pipe, fittings, valves and appurtenances for water and sewer lines shall all be in accordance with the requirements contained in the BJWSA technical specifications.
7. Installation of water and sewer lines and appurtenances shall be in accordance with the BJWSA standard construction details and specifications.
8. Contractor shall install mechanical restraints on all bends, plugs and tees, 2" or larger, on waterlines and sanitary sewer force mains.
9. All water mains shall be sterilized and pressure tested in accordance with BJWSA specifications.
10. Separation of water mains and sewers:
    - A. Parallel installation: unless otherwise specifically shown in a special detail on the plans, install water mains at least 10-ft. Horizontally from any existing or proposed sanitary sewer or sanitary sewer force main, the distance being measured in a horizontal plane between the outside surfaces of the pipes.
    - B. Crossings: unless otherwise specifically shown in a special detail on the plans, install water lines crossing sanitary sewers or sanitary sewer force mains to provide a minimum vertical separation of 18-inches between the outside surfaces of the pipes. This shall be the case whether the water line is above or below the sanitary sewer line. Whenever possible locate the water line above the sewer line. Where a new water line crosses a new sewer line, place a full length of ductile iron pipe for water line at the crossing with pipe positioned so that the joints are as far as possible from the point of crossing. Where a new water line crosses an existing sewer line, place one full length of ductile iron pipe water line so that the joints are as far from the point of crossing as possible.
11. The contractor shall cut and patch existing pavement as required for the installation of utility lines.
12. Sanitary manhole rim grades shown are approximate. Adjust rim elevations to be flush with finished grade.
13. The contractor under this contract shall not make any connections to the existing water or sanitary sewer systems unless expressly authorized to do so by the BJWSA. all water and sewer improvements under this contract must be constructed complete, tested, inspected and approved by the BJWSA before any authorization to connect will be given. Coordination of testing, inspection and connections with the BJWSA is the responsibility of the contractor under this contract.
14. All water mains shall be installed with thirty-six inches (36") minimum cover (from finished grade). Maximum depth shall be five feet (5'). Where water mains may conflict with other utilities, the water main crossing shall be constructed with ductile iron pipe, mechanical joint 45-deg. bends and mechanical restraints.

Work on South Carolina Department of Transportation Right-of-Way:

1. Contractor shall review and comply with all conditions and special provisions contained in the SCDOT encroachment permit(s) issued for this project.
2. Contractor to refer to the most current edition of the SCDOT standard drawings.
3. Contractor is responsible for submitting construction notification form (48 hour minimum) and coordination of all work within SCDOT rights-of-way with the local and/or district SCDOT engineering representative.
4. Contractor is responsible for preparing and submitting a traffic control plan to SCDOT for approval minimum 48 hours prior to conducting work in the right-of-way. All traffic control plans shall conform to current MUTCD and current SCDOT guidelines and specifications.
5. All signage, pavement markings, and markers shall conform to current MUTCD guidelines and current SCDOT standard specifications and drawings.
6. All paving and drainage construction shall conform to current SCDOT standard specifications and drawings.
7. All pavement markings in SCDOT right-of-way shall be thermoplastic and conform to current MUTCD guidelines and current SCDOT standard specifications and drawings.
8. Removal of pavement markings shall conform to current SCDOT standard specifications for highway construction section 609.4.1.2.

Tree Protection-Bluffton

1. All trees having a trunk diameter of 8-inches (dbh) or larger, and endangered or valued trees having a trunk diameter of 4-inches (dbh) or larger must be preserved unless specifically approved for removal in accordance with Town of Bluffton development standards ordinance and indicated on the plans to be removed.
2. The contractor is responsible for marking the trees designated to be preserved in accordance with the requirements contained in the Town of Bluffton development standards ordinance.
3. Prior to commencing any clearing or construction operations on the site, the contractor shall erect tree protection barriers around each tree or group of trees designated for preservation in accordance with the details on the plans and the requirements contained in the Town of Bluffton unified ordinance 5.3.3.
4. A tree protection zone shall be established in accordance with the provisions contained in the Town of Bluffton unified ordinance 5.3.3 for each existing tree designated for preservation. The minimum tree protection zone as defined in the ordinance is a circular area centered on the tree and having a radius of the greater of 10-ft. or one and one-half foot per inch dbh (diameter at breast height). The size or configuration of the tree protection zone may be modified only upon approval by Town of Bluffton.
5. The area within the tree protection zone must remain open and unpaved. No change of grade will be allowed within the tree protection zone except for a 2-inch cut or 2-inch fill of topsoil, sod or mulch. Any activity within the tree protection zone is subject to approval by Town of Bluffton. The following activities are prohibited within the tree protection zone:
    - A. Placement or storage of any soil, debris, oils, fuel, paints, building materials or any other materials.
    - B. Burning
    - C. Vehicle parking
    - D. Paving
    - E. Trenching for utilities
6. Where utility lines must pass thru the tree protection zone, they shall be installed by horizontal boring beneath the roots of the tree.
7. Where it is necessary for machinery and equipment to pass within the tree protection zone, approval must be obtained from Town of Bluffton. special measures will be required to protect the roots from excessive compaction.
8. The contractor is responsible for obtaining all tree removal permits and for coordinating all inspections required by Town of Bluffton in connection with tree preservation and removal activities during construction.

BJWSA Utility As-Built Survey Requirements

1. Contractor shall provide engineer with electronic file of surveyed utility as-built points. Point descriptions shall be clear and understandable.
2. Contractor shall also provide corresponding redline drawing to supplement or clarify electronic file content.
3. Contractor shall schedule surveyor to be present during installation in order to obtain accurate information on underground fittings and sanitary/storm crossing elevations. Multiple surveyor mobilizations may be needed. If surveyor is not present during installation, contractor shall ensure surveyor has access to all utility components listed in these notes.
4. Contractor's surveyor shall be a professional land surveyor licensed in South Carolina. Contractor's surveyor will review and sign the BJWSA certification on the utility as-built drawing prepared by engineer upon completion.
5. Utility as-built points shall be based upon the SC NAD83 coordinate system and the elevations shall be based upon the same vertical datum used in the engineering plans.
6. As built survey shall include, but not necessarily be limited to, the following:
    - a. **GRAVITY SEWER**
        - i. Manhole locations, frame elevation, all invert elevations
        - ii. Cleanout locations, ground elevation, invert elevation
        - iii. Points for permanent visible structures nearby manholes and cleanouts for reference (pavement, buildings, manholes, catch basins, power poles, or property corners)
    - b. **FORCE MAIN**
        - i. Elevation on top of force main connection to manhole or force main manifold
        - ii. Air release valves
        - iii. Simple force main alignments on 100 lf increments
        - iv. Arcs, bends on 50 lf increments
    - c. **WATER**
        - i. Horizontal and vertical location of all valves, bends, tees, and storm/sanitary crossing points (for as-built separation calculations)
        - ii. Fire hydrants
        - iii. Concrete markers, connections to existing lines, backflow preventors, air release valves
        - iv. Points for permanent visible structures near water system elements described above for reference (pavement, buildings, manholes, catch basins, power poles, or property corners). Two surveyed reference point locations are required for each fitting.
    - d. **PUMP STATIONS**
        - i. Complete layout of pump station
        - ii. Manhole locations, frame elevation, all invert elevations
        - iii. Fencing & gates, control panel
        - iv. Top of slab (incl. brass benchmark) & bottom of wetwell
        - v. Influent line invert
        - vi. Float levels (pump off, pump on, lead/lag, both pumps on, high water)
        - vii. Property corners, yard hydrant, light pole, discharge piping/valves
        - viii. Bypass pump
        - ix. Electrical power service from meter to transformer

NOTES:

1. Gate valves shown for graphical purposes only. Contractor to place all valves at 18" from tee. see BJWSA detail G-15.
2. Contractor to provide 18" of separation between tapping saddles for all water laterals.
3. See construction notes sheet for BJWSA as-built survey requirements

Site Grading and Drainage:

1. All utilities shown are approximate locations. The contractor shall be responsible for providing 72-hour notice to all respective utility companies for field verification of existing utilities prior to construction. Any damages to existing utilities due to this construction shall be the responsibility of the contractor.
2. Temporary control of storm water drainage shall be the responsibility of the contractor. Sequencing and construction techniques shall prevent obstruction of storm sewers, ponding in traffic areas or rising of water levels which would enter adjacent buildings or structures.
3. Full width of street and road rights-of-way must be cleared and graded as shown in the details on the drawings.
4. Subgrade preparation: top soil shall be removed from paved areas to a minimum depth as recommended in the project's geotechnical report. All excavation shall be to subgrade limits.
5. All utility pipe lines, conduits and sleeves under paved areas must be in place prior to completion of the roadway subgrade compaction.
6. Finish grading shall include the placement of topsoil over all unpaved areas not occupied by buildings or structures and fine grading around buildings, adjacent to walks, curbs, gutters and structures to assure positive drainage.

SCDES/BCM Sediment and Erosion Control Standard Notes (Revised Dec-2012):

1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
2. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
    - A. Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
    - B. Where construction activity on a portion of the site is temporarily ceased, and earth-disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the site.
3. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately, or incorrectly installed, the permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.
4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove sediment before being pumped back into any waters of the state.
5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
7. Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with s.c reg. 72-300 et seq. and scr100000.
8. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
9. All waters of the state (WOS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WOS. A 10-foot buffer should be maintained between the last row of silt fence and all WOS.
10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.
11. A copy of the SWPPP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
12. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
13. Minimize soil compaction and, unless infeasible, preserve topsoil.
14. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
15. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).
16. The following discharges from sites are prohibited:
    - A. Wastewater from washout of concrete, unless managed by an appropriate control.
    - B. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.
    - C. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance.
    - D. Soaps or solvents used in vehicle and equipment washing.
17. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site.
18. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's water quality standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPS must be implemented as soon as reasonably possible.
19. A pre-construction conference must be held for each construction site with an approved on-site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the department has approved otherwise.

Dry Utility Conduits for Electric, Telephone and Cable TV:

1. All dry utility conduit ends shall be capped and marked with a steel rebar stake imbedded one (1) foot below ground surface.
2. 48" Minimum bury depth for all electrical conduits.
3. Maintain minimum 12" vertical clearance when crossing water, sewer, and storm drain lines.
4. Maintain minimum 18" horizontal clearance when paralleling water, sewer and storm drain lines.
5. Extend conduit beyond pavement, curb, and sidewalks.
6. The contractor shall be responsible for coordination of the installation of all utility service connections. Refer to approved building plans for the exact location of all service connections. The contractor must install all conduits, as shown on the plans or as required by respective utility companies. The contractor shall be responsible to ensure strict compliance with all applicable codes and regulations with regards to the installation of utilities and conduit.
7. Locations shown on the plans for proposed dry utility conduits are approximate only. All dimensioning and staking should be based on economical and practical construction. The contractor shall be responsible for coordination with the respective utility representatives, prior to any conduit installation.
8. Transformer pads shall be located as directed by the respective utility representative. The contractor shall be responsible for compliance with applicable code requirements.
9. Notify the engineer if conflicts with existing or proposed structures require proposed utilities be relocated.

Site Clearing and Demolition:

1. No clearing shall occur within designated buffer zones, tree protection zones, outside of the property lines or beyond the clearing limits unless otherwise specifically shown on the plans.
2. Only those trees designated on the drawings for removal are to be removed as part of the site clearing operations.
3. The contractor shall install a continuous line of flagging or fencing along the limits of clearing prior to commencing any clearing, demolition, or construction work on the project.
4. Exercise caution during clearing operations to avoid felling trees into designated tree protection zones.
5. No burning will be allowed within 50 feet of a tree protection zone or tree drip line. Contractor shall coordinate any burning operations with local jurisdiction and fire departments.
6. Selective clearing areas shall be cleared of all brush and understory growth.

Sequence of Construction Activities

Estimated Start Date: 04-13-2026 Estimated Completion Date: 04-14-2028

Items must occur in the order listed; items cannot occur concurrently unless specifically noted.

Phase 1: (Initial)

1. Receive NPDES coverage from SCDES.
2. Hold pre-construction meeting.
3. Notify SCDES EQC regional office or BCM office 48 hours prior to beginning land-disturbing activities.
4. Installation of construction entrance.
5. Clearing & grubbing only as necessary for installation of perimeter controls.
6. Installation of perimeter controls (e.g. silt fence).
7. Install tree protection.
8. Install inlet protection.
9. Install sediment tubes.
10. Clearing & grubbing only in areas of basin.

Phases 2 & 3: (Intermediate & Final)

11. Installation of basin and installation of diversions to those structures (outlet structures must be completely installed as shown on the details before proceeding to next step; areas draining to these structures cannot be disturbed until the structures & diversions to the structures are completely installed). Install surface dewatering skimmer prior to moving to next step.
12. Clearing & grubbing of site or demolition (sediment & erosion control measures for these areas must already be installed).
13. Rough grading.
14. Installation of storm drain system and placement of inlet protection as each inlet is installed.
15. Install all required utilities and curbing.
16. Fine grading, paving, etc.
17. Place topsoil & establish finish grades.
18. Permeable pavers shall be laid when all heavy construction is completed.
19. Clean-out of detention basins that were used as sediment control structures and re-grading of detention pond bottoms; if necessary, modification of sediment basin riser to convert to detention basin outlet structure.
20. Install permanent seeding.
21. Flush any sediment from storm sewer pipes and inlets.
22. Removal of temporary sediment & erosion control measures (including skimmer) after entire area draining to the structure is finally stabilized (the department recommends that the project owner / operator have the SWPPP preparer or registration equivalent approve the removal of temporary structures).
23. Perform as-built surveys of all detention structures and submit to SCDES or MS4 for acceptance.
24. Submit notice of termination (NOT) to SCDES as appropriate.

- NOTE: Perform weekly site inspections during land disturbing activities and make recommendations for additional BMPs or maintenance of existing BMPs
- NOTE: All pumped dewatering shall be performed using an appropriately sized pumped water filter bag.

Project Information

Source of Title:
Beaufort county register of deeds,
deed book xxxx page xxxx

Use:
Existing: Undeveloped
Proposed: Hospital
1 building
240,000 sq ft

Required Setbacks:
Rear: 33 Feet
Side: 33 Feet
Front: 50 Feet

Surface Coverage:
Max impervious allowed: XX %
Min open space required: XX %
Existing impervious: XX,XXX sq. ft. (XX %)
Proposed impervious: XX,XXX sq. ft. (XX %)
Open space provided: XX,XXX sq. ft. (XX %)
Wetlands/nat. resource: XX,XXX sq. ft. (XX %)

Parking Summary:
Parking use types
Use type = 1 space/1 medical staff
1 space/4 employees
1 space/6 patient beds
Parking required:
Use type = 121 spaces
Parking provided:
Total = 312 spaces
Accessible parking required: 32 spaces
Accessible parking provided: 32 spaces

Property Owner:
Hilton Head Medical Center, LLC
25 Hospital Center Blvd,
Hilton Head, SC 29926
704-316-4351
Jason.Adkins@meadowsandohly.com

Flood Zone:
"X"

Property Zoning:
Planned Unit Development PUD

Site Area:
Total: 17.8 acres
Disturbed: 14.0 acres

Required Buffers:
Front: 50 Feet Hwy Corridor Buffer
Rear: 16.5 Feet
Side: 16.5 Feet

Utility Contacts:

Palmetto Electric	843-208-5512	1 Cooperative Way, Hardeeville, SC 29927
Dominion Energy	800-251-7234	PO Box 100255 Columbia, SC 29202
BJWSA	843-987-9200	6 Snake Road, Okatie, SC 29909
Broad Creek PSD	843-785-7582	PO Box 5878, Hilton Head, SC 29938
South Island PSD	843-785-6224	PO Box 5148, Hilton Head, SC 29938
Hilton Head Island PSD	843-681-5525	PO Box 21264, Hilton Head, SC 29925
Hargray Communications	843-815-1675	PO Box 3380, Bluffton, SC 29910
Century Link	843-525-0044	2127 Boundary ST #16, Beaufort, SC 29902
Santee Cooper	843-761-8000	1 Riverwood Drive, Moncks Corner, SC 29461

Contractor Note:

Contractor to obtain and become familiar with geotechnical report #_05-05-25-5_prepared by___Whitaker Laboratory, Inc.___.

All work must conform to project technical specifications for Bluffton Medical Center prepared by Ward Edwards Engineering. The contractor is responsible for obtaining a copy of the technical specifications if not provided with the drawings.

Permits

Permit	Permit #	Issued	Expires
BJWSA			
Beaufort County Encroachment			
SCDES/MS4 Stormwater			
SCDES Water			
SCDES Wastewater			
Municipality Development			
USACE Determination			
CZC			
NPDES			

SCDES-BCM Certification:

"I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of title 48, chapter 14 of the code of laws of SC, 1976 as amended, pursuant to regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of scr100000."

STANDARD ABBREVIATIONS

Ac	Acre
ADT	Average Daily Traffic
ASPH	Asphalt
BEG	Begin
BL	Baseline
BM	Benchmark
BOB	Bottom Of Bank
BOTT	Bottom
BRG	Bearing
BT	Buried Telephone
B/C	Back of Curb
C	rate of Change in slope
C & G	Curb and Gutter
CATV	Cable Television
CB	Catch Basin
CI	Curb Inlet
CL	Clearance or Centerline
CONST	Construction
CORR	Correction
CF	Cubic Feet
CY	Cubic Yard
DA	Drainage Area
DBI	Ditch Bottom Inlet
DBL	Double
DHV	Design Hourly Volume
DI	Drop Inlet
DIA or D	Diameter
DIP	Ductile Iron Pipe
DT	Ditch
e	Superelevation
E	East or External distance
EGL	Existing Grade Line
EL or ELEV	Elevation
EMBK	Embankment
ENGR	Engineer
EQ	Equal
ESMT	Easement
EW	Endwall
EXIST	Existing
F & I	Furnish and Install
FES	Flared End SECTION
FFE	Finish Floor Elevation
FH	Fire Hydrant
FM	Force Main
FT	Foot or feet
FUT	Future
GI	Grate Inlet
GRD	Grade
H or HT	Height
HDPE	High Density Polyethylene
HDWL	Headwall
HORIZ	Horizontal
HP	High Point
HW	HIghwater
HWY	Highway
HYD	Hydrant or hydraulic
ID	Inside Diameter
IE	Invert Elevation
IN	Inch
INSTL	Install
JB	Junction Box
LF	Linear Feet
LGTH	Length
LOW	Limit Of Work
LP	Low Point
LT	Left
MES	Mitred End Section
MH	Manhole
MHW	Mean High Water
MJ	Mechanical Joint
N	North
NBR	North Bound Roadway
NC	Normal Crown
NGVD	National Geodetic Vertical Datum
NIC	Not In Contract
OD	Outside Diameter
OH	Overhead
OHP	Overhead Power
PAVT	Pavement
PC	Point of Curvature
PCC	Point of Compound Curvature
PERF	Perforated
PG	Profile Grade
PGE	Profile Grade Elevation
PGL	Profile Grade Line
PI	Point of Intersection
PL	Property L^INE
PR	Point of Rotation
PRC	Point of Reverse Curvature
PRCST	Precast
PT	Point of Tangency
PVC	Polyvinyl Chloride
PVI	Point of Vertical Intersection
Q	Peak discharge or flow volume (cfs)
R	Rate of change in elevation
R or RAD	Radius
RCP	Reinforced Concrete Pipe
RDWY	Roadway
REQ or REQD	Required
RT	Right
R/W	Right Of Way
S	Speed or South or Slope
SAHM	Sand-asphalt hot mix
SAN	Sanitary
SF	Square Foot or Silt Fence
SY	Square Yard
SBR	South Bound Roadway
SD	Storm sewer
SED	Sediment
SHW	Seasonal High Water
SS	Sanitary Sewer
SSMH	Sanitary Sewer Manhole
STA	Station
SUBGR	Subgrade
SUR	Survey
SW or SWK	Sidewalk
TC	Top of Curb
TCE	Temporary Construction Easement
TEL	Telephone
TEMP	Temperature or temporary
TG	Top of Grate
TOB	Top of Bank
TP	Top of Pavement
TW	Top of Sidewalk
TYP	Typical
UNDDR	Underdrain
UG	Underground
UE	Underground Electric
UT	Underground Telephone
UTIL	Utilities
VERT	Vertical
W	Width or West
WL	Water Line
WM	Water Main
WT	Water Table or weight
WV	Water Valve
WWF	Welded Wire Fabric
YI	Yard Inlet

Paving Hatch Legend

Proposed Concrete Paving	▨
Proposed Heavy Duty Concrete Paving	▨
Proposed Pervious Concrete Paving	▨
Proposed Sidewalk/Concrete	▨
Reinforced Grass Fire Lane	▨
Proposed Aggregate/Stones	▨
Proposed Asphalt (light duty)	☐
Proposed Asphalt (heavy duty)	▩
Mill & Overlay Asphalt	▨
Proposed Concrete Pavers	▨

Clearing / Demolition Legend

Demolition	▨
Milling	▨
Tree to be Removed	⊗
Tree Protection	◌

Storm Sewer/Drainage Legend

	Proposed
Drop Inlet	DI: A1
Curb Inlet (with Grate)	CI: A1
Type 16 Curb Inlet	CI: A1
Valley Gutter Inlet	VI: A1
Trench Drain	TD: A1
Weir Inlet	WI: A1
Yard Inlet	YI: A1
Junction Box	JB: A1
Cleanout	CO
Downspout	■
Storm Drain	—
Underdrain	—
Roof Drain Collector	—
Flared End Section	◁
Headwall	▭
Headwall with Wings	⏢
Outlet Control Structure	☐
Ditch Centerline	→→→
Direction of Flow	∿→

Sanitary Sewer Legend

	Proposed
Sanitary Sewer Manhole	● MH: A1
Sanitary Sewer Cleanout	○ CO
Sanitary Sewer Wye	⅄
Check Valve in Manhole	⊘
Plug Valve	⋈
Air Release Valve	ARV
Sewer Line	— S —
Force Main	— F —
Reuse Main	— R —
Service Lateral	—

Water System Legend

	Proposed
Water Meter	☐
Water Valve	⋈
Reducer	▶
Post Indicator Valve	⊗
Fire Hydrant	✱
Blowoff Hydrant	✱
Yard Hydrant	✱
Fire Depart. Connection (FDC)	DC
Cap	⊓
Plug	–
Backflow Preventor	⋈
Butterfly Valve	⋈
Fittings	⌐
Water Line	— W —
Service Lateral	—

Grading Legend

	Proposed
Top of Pavement Elevation	⊗ TP: 22.50
Top of Walk Elevation	⊗ TW: 22.50
Top of Curb Elevation	⊗ TC: 22.50
Finish Grade	⊗ FG: 22.5
High Point	⊗ HP
Low Point	⊗ LP
Contour	—19—
Ditch Centerline	→→→
Direction of Flow	→

Limits of Disturbance:	— NPDES —

Erosion Prevention

Land Grading:	LG OR
Surface Roughening:	●
Topsoiling:	◎
Temporary Seeding:	TS
Mulching:	M
ECB or TRM:	▦
FGM:	FGM
BFM:	BFM
Permanent Seeding:	PS
Sodding:	SO
Riprap:	◍
Outlet Protection:	RIPRAP ECB or TRM
Dust Control:	DC
Polyacrylamide (PAM):	PAM

Runoff Conveyance Measures

Vegetated Channels:	▭
Riprap-Lined Channels:	▭
ECB OR TRM-Lined Channels:	▭
Paved Channels:	PC ➡ PC ➡ PC ➡
Pipe Slope Drains:	○—
Temporary Stream Crossing:	T
Temporary Diversion Ditch or Swale:	→ TD → TD →
Permanent Diversion Ditch:	→ PD → PD →
Diversion Dike or Berm:	→ DD → DB →
Level Spreader:	☐
Subsurface Drain:	⇉ SSD ⇉ SSD ⇉

Sediment Control

Sediment Basin:	◓
Temporary Sediment Trap:	◓
Rock Sediment Dike:	◠
Rock Check Dam:	▯ ▯ OR ▶ ▶
Sediment Tube:	◡
Silt Fence:	■—■—■
Reinforced Silt Fence:	■×■×■
Type A-Fabric Inlet Protection:	A
Type A-Sediment Tube Inlet Protection:	Ⓐ
Type B - Wire Mesh and Stone Drop Inlet Protection:	B
Type C - Block and Gravel Inlet Protection:	C
Type D - Rigid Inlet Filters:	D
Type E - Surface Course Curb Inlet Filter:	E
Type F - Inlet Tube:	F
Type FC - Filter Bag Curb Inlet Protection:	FC
Type FB - Filter Bag Grate Inlet Protection:	FG
Concrete Washout	CWS

🟩 🟩 🟩 🟩 🟩 🟩 ADA Accessible Route

NOTE:
The accessible route shall comply with the current version of the ADA Standards for Accessible Design.

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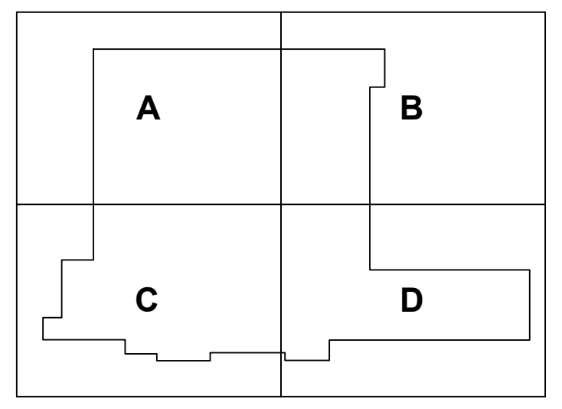
KEYPLAN



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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER
400501008

ABBREVIATION
BLUFFTON HOSPITAL

DRAWN BY
GFONSECA

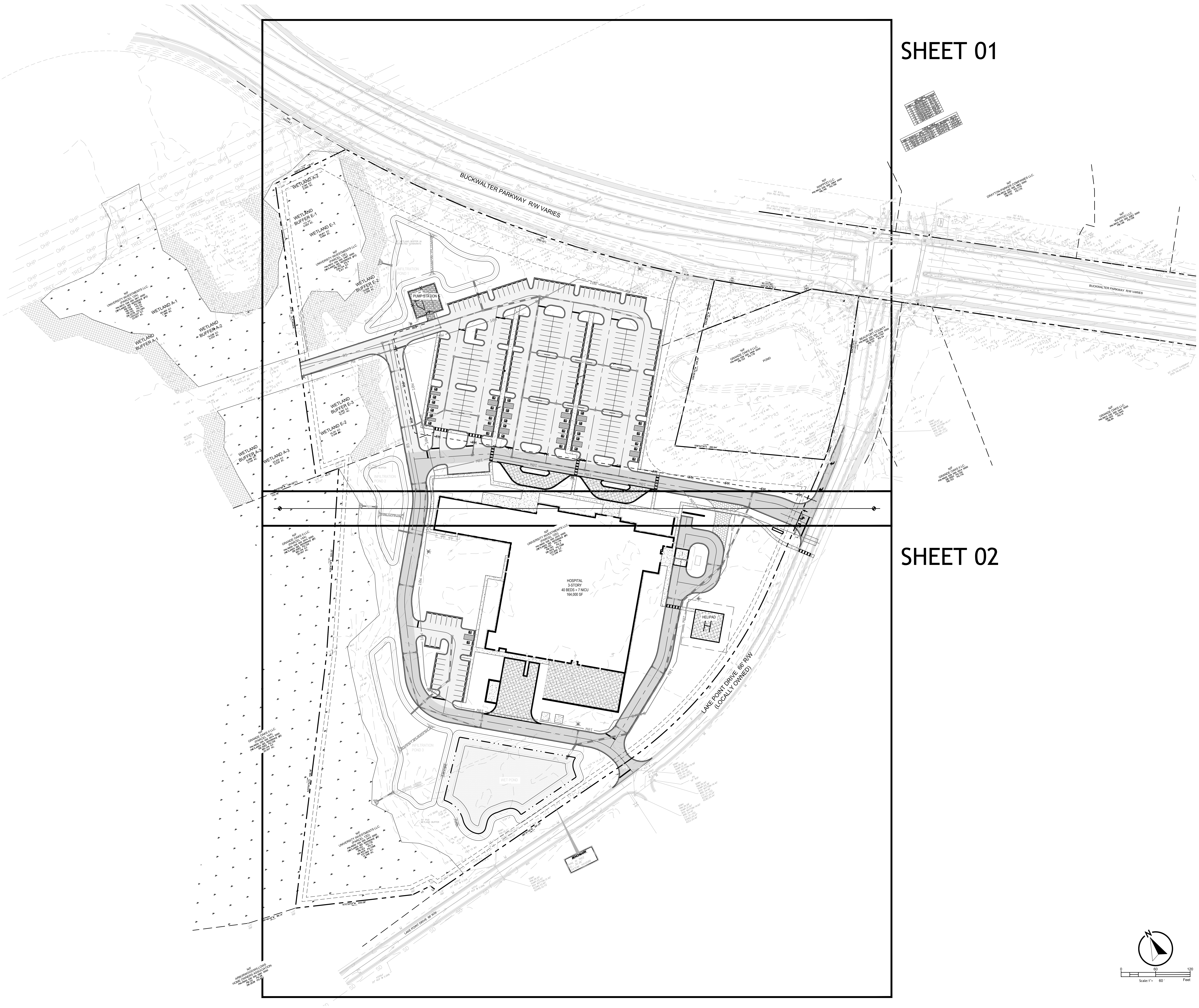
CHECKED BY
LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
CONSTRUCTION
NOTES

SHEET NUMBER
C-002

ATTACHMENT 7


SHEET 01
SHEET 02
BUCKWALTER PARKWAY R/W VARIES
LAKE POINT DRIVE 66' R/W (LOCALLY OWNED)
WETLAND A-1
WETLAND A-2
WETLAND BUFFER A-1
WETLAND BUFFER A-2
WETLAND A-3
WETLAND BUFFER A-3
WETLAND E-1
WETLAND BUFFER E-1
WETLAND E-2
WETLAND BUFFER E-2
WETLAND BUFFER E-3
PUMP STATION
POND
N/F UNIVERSITY INVESTMENTS LLC. (PARCEL 12D) PIN: R600 029 000 2410 0000 (WETLANDS SEE REFERENCE #9) PB:153 PG:176 PB:163 PG:3 DB:4019 PG:1098 537,900 S.F. 12.348 AC.
HOSPITAL
3-STORY
40 BEDS + 7 NICU
164,000 SF
HELIPAD
WET POND
N
0
60
120
Scale:1"= 60 '
Feet

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704-961-9203

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01/23/26
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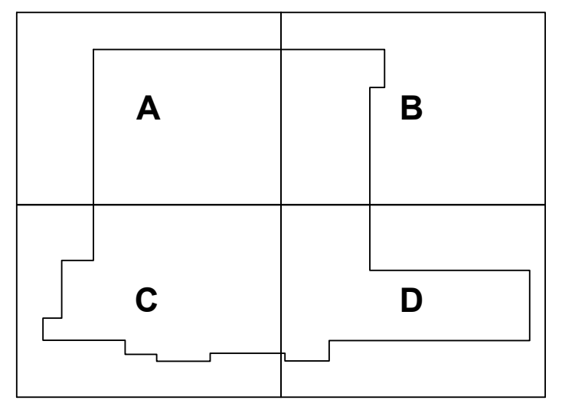

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
SHEET INDEX

SHEET NUMBER
C-003

ATTACHMENT 7

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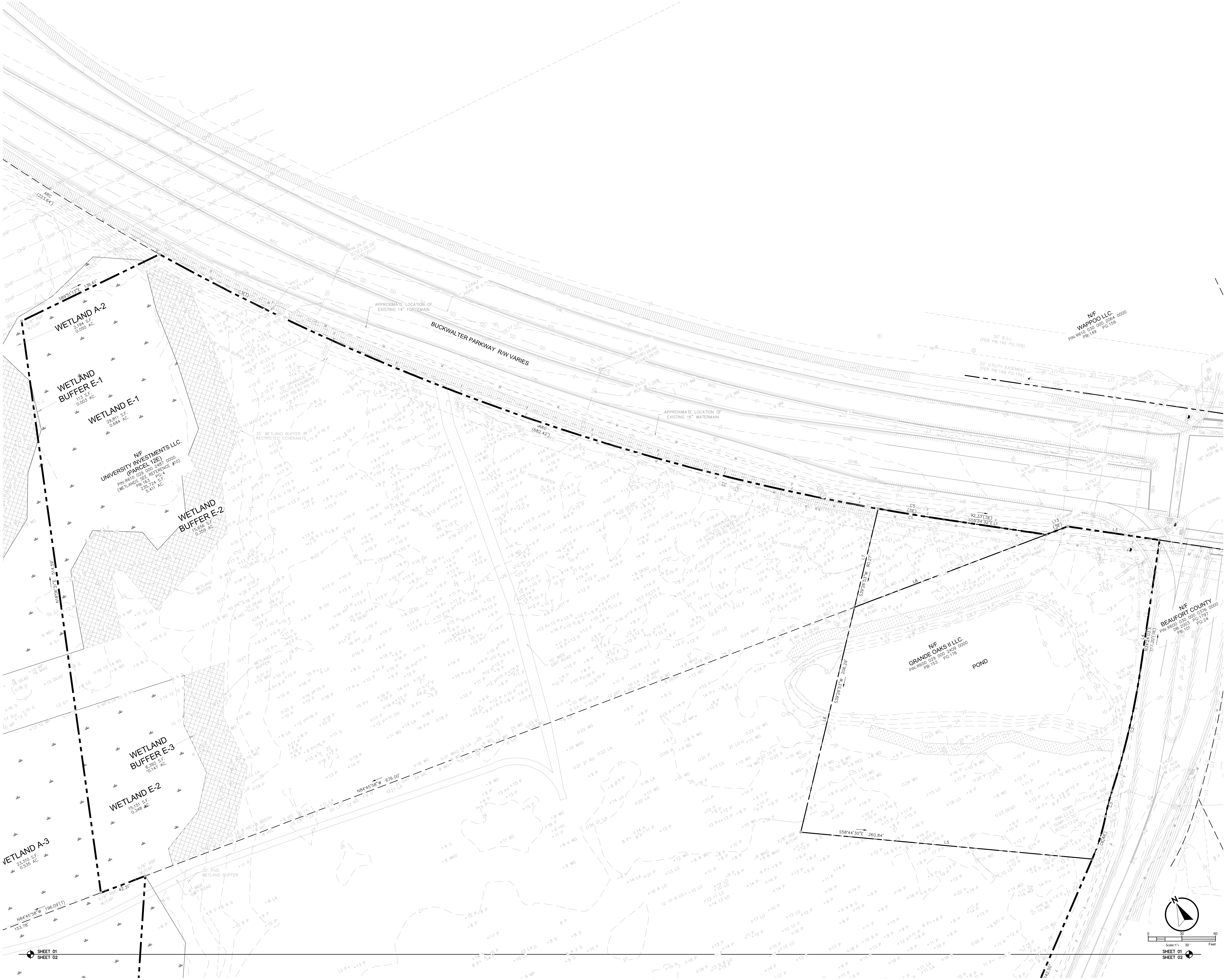
BUCKWALTER PARKWAY R/W VARIES
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING 16" WATERMAIN
ARC (223.64')
ARC (882.42')
S89°51'13"E 136.61'
WETLAND A-2
2,194 S.F.
0.050 AC.
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12E)
PIN:R610 029 000 2487 0000
(WETLANDS SEE REFERENCE #10)
PB:163 PG:4
235,724 S.F.
5.411 AC.
WETLAND BUFFER E-2
15,656 S.F.
0.359 AC.
514.59'
35' WETLAND BUFFER RESTRICTED COVENANTS
50' HCOD BUFFER
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
N84°45'58"W 676.00'
N84°45'58"W 196.09'(T)
153.78'
42.31'
5/8" RBF W/CAP
N/F
WAPPOO LLC.
PIN:R610 030 000 2064 0000
PB:149 PG:159
50' B.S.L. (PER PB:149 PG:159)
20' UTILITY EASEMENT (PER PB:149 PG:159)
TWO JUNCTION BOXES, NO ACCESS
SWL-CROSSWALK
NO SIGNAL
C5 (TIE)
C1
92.33'(TIE)
S55°34'32"E L1
L13 (TIE)
L3
L7
S39°26'53"W 90.27'
L8
N/F
GRANDE OAKS II LLC.
PIN:R600 029 000 2409 0000
PB:153 PG:176
POND
S39°26'53"W 206.29'
L6
S58°44'30"E 260.84'
L5
L4
N34°24'03"E 117.20'(TIE)
N/F
BEAUFORT COUNTY
PIN:R600 030 000 0376 0000
DB:2003 PG:1797
PB:101 PG:24
SHEET 01
SHEET 02
N
0
30
60
Feet
Scale: 1" = 30'

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A	B
C	D

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
EXISTING CONDITIONS PLAN

SHEET NUMBER
C-101

ATTACHMENT 7

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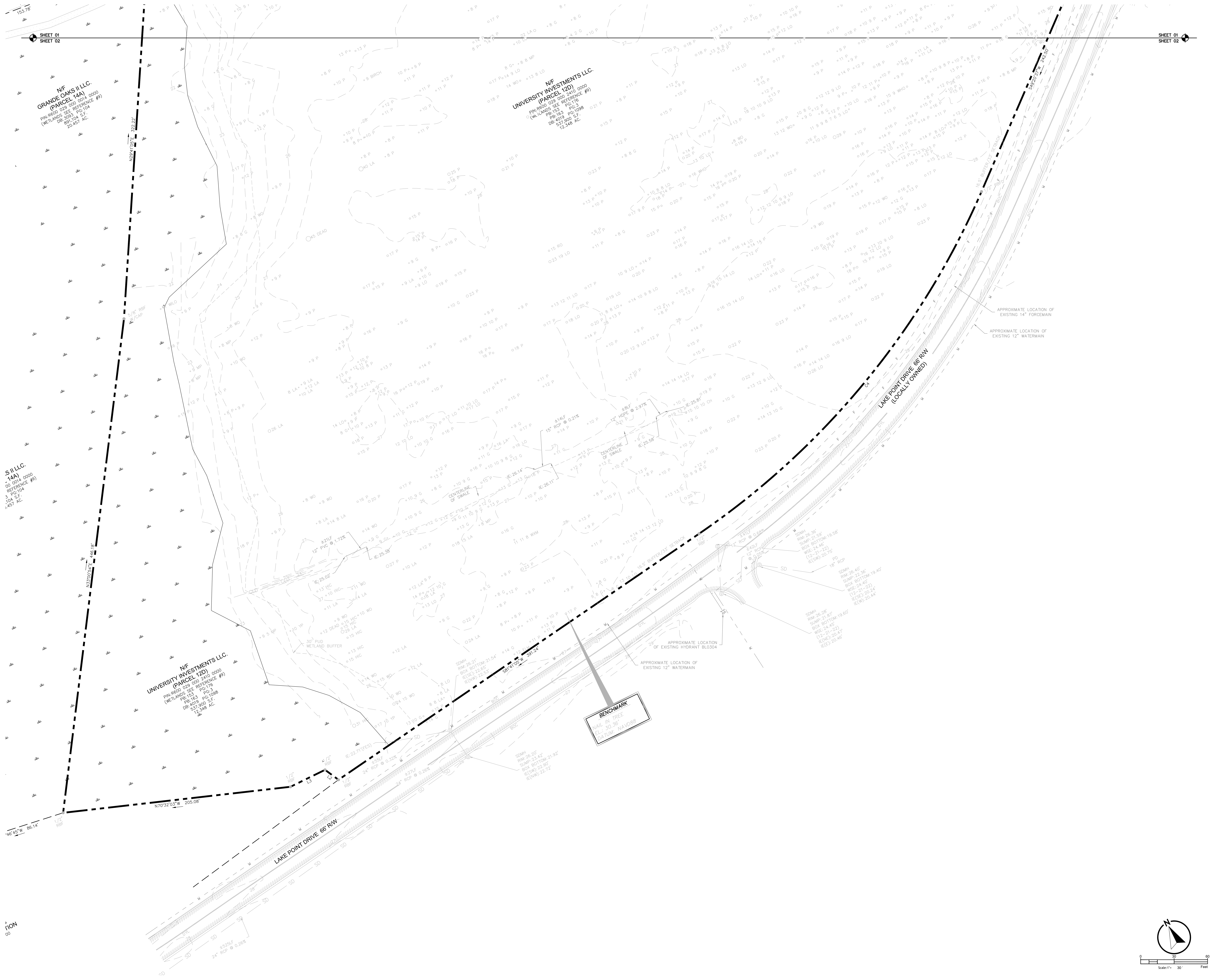
SHEET 01
SHEET 02
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN: R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB: 3093 PG: 104
891,104 S.F.
20.457 AC.
N29°41'05"E 322.22'
N33°00'54"E 446.18'
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN: R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB: 153 PG: 176
PB: 163 PG: 3
DB: 4019 PG: 1098
537,900 S.F.
12.348 AC.
±14LF
15" RCP @ 0.21%
IE: 26.14'
IE: 26.11'
CENTERLINE OF SWALE
±8LF
12" HDPE @ 2.97%
IE: 25.81'
IE: 25.58'
±21LF
12" PVC @ 1.72%
IE: 25.38'
IE: 25.02
30' PUD WETLAND BUFFER
16.5' BUFFER/33' SETBACK
1/2" RBF
±41LF
12" RCP @ 0.68%
±42LF
12" RCP @ 0.05%
APPROXIMATE LOCATION OF EXISTING HYDRANT BL0304
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
SDMH
RIM: 26.36'
SUMP: 21.59'
BOX BOTTOM: 19.58'
WSE: 24.46'
(12-21-22)
IE(SW): 20.75'
PD
18" RCP
SDMH
RIM: 26.40'
SUMP: 22.36'
BOX BOTTOM: 19.40'
WSE: 24.40'
(12-21-22)
IE(SE): 20.24'
IE(W): 20.44'
SDMH
RIM: 26.28'
SUMP: 21.87'
BOX BOTTOM: 19.60'
WSE: 24.45'
(12-21-22)
IE(NE): 20.47'
IE(E): 20.46'
SDMH
RIM: 26.21'
BOX BOTTOM: 21.54'
IE(SE): 22.65'
IE(NW): 22.53'
SDMH
RIM: 26.20'
SUMP: 23.42'
BOX BOTTOM: 21.92'
IE(SW): 22.90'
IE(NW): 22.72'
S81°41'05"W 391.24'
BENCHMARK
NAIL IN TREE
EL.: 30.36'
DATUM: NAVD88
LAKE POINT DRIVE 66' R/W
(LOCALLY OWNED)
C4
IE: 22.71'(FES)
±55LF
24" RCP @ 0.32%
±27LF
24" RCP @ 0.26%
±525LF
24" RCP @ 0.26%
L2
L3
N70°32'03"W 205.08'
86.14'
LAKE POINT DRIVE 66' R/W
0
30
60
Scale: 1" = 30'
Feet

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STRUCTURAL **WALTER P MOORE** 500 N. AKARD STREET SUITE 2300 DALLAS, TX 75201 704-961-9203	**MEP/FP/LV** **DWG CONSULTING ENGINEERS** 1009 ANNA KNAPP BOULEVARD SUITE 200 MOUNT PLEASANT, SC 29464 843-849-1141

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BLUFFTON HOSPITAL
BLUFFTON, SC

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ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
EXISTING CONDITIONS PLAN

SHEET NUMBER
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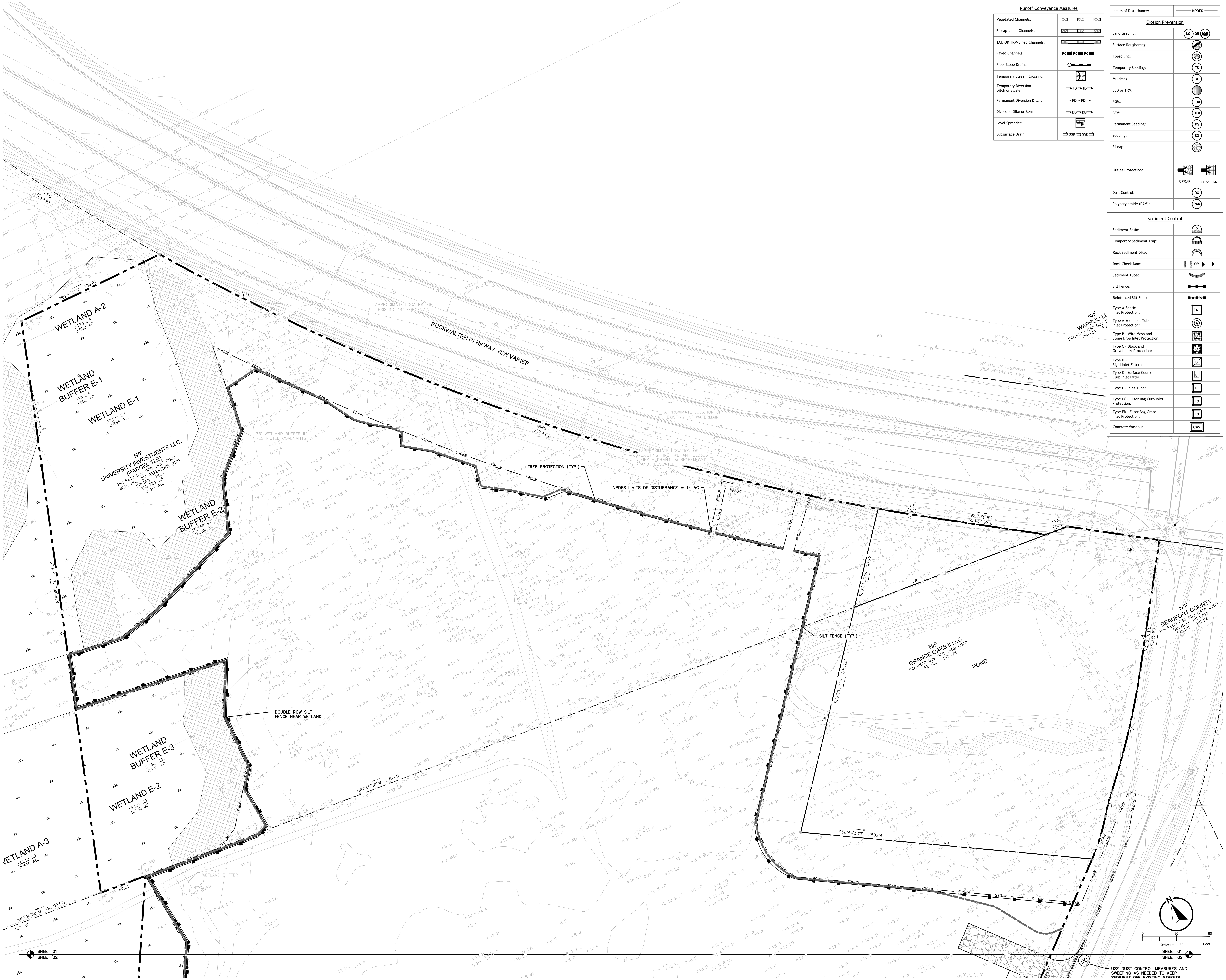
WETLAND A-2
2,194 S.F.
0.050 AC.
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
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(PARCEL 12E)
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0.359 AC.
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
BUCKWALTER PARKWAY R/W VARIES
ARC (682.42')
ARC (223.64')
APPROXIMATE LOCATION OF EXISTING 16" WATERMAIN
APPROXIMATE LOCATION OF EXISTING FIRE HYDRANT BL0303 FIRE HYDRANT TO BE REMOVED AND RELOCATED
TREE PROTECTION (TYP.)
NPDES LIMITS OF DISTURBANCE = 14 AC
SILT FENCE (TYP.)
DOUBLE ROW SILT FENCE NEAR WETLAND
N/F
WAPPOO LLC
N/F
GRANDE OAKS II LLC.
POND
N/F
BEAUFORT COUNTY
N84°45'58"W 676.00'
S58°44'30"E 260.84'
S39°29'53"W 206.29'
N84°45'58"W 196.09'
NPDES
SHEET 01
SHEET 02
DC
USE DUST CONTROL MEASURES AND SWEEPING AS NEEDED TO KEEP SEDIMENT OFF EXISTING STREETS
N
0
30
60
Scale:1"= 30 '
Feet

Runoff Conveyance Measures

Vegetated Channels:	▨
Riprap-Lined Channels:	▨
ECB OR TRM-Lined Channels:	▨
Paved Channels:	PC ➡ PC ➡ PC ➡
Pipe Slope Drains:	○▬ ▬ ▬
Temporary Stream Crossing:	T
Temporary Diversion Ditch or Swale:	⇒ TD ⇒ TD ⇒
Permanent Diversion Ditch:	→ PD → PD →
Diversion Dike or Berm:	⇒ DD ⇒ DB ⇒
Level Spreader:	▨
Subsurface Drain:	⇉ SSD ⇉ SSD ⇉

Limits of Disturbance:	—— NPDES ——

Erosion Prevention

Land Grading:	LG OR ●
Surface Roughening:	●
Topsoiling:	◎
Temporary Seeding:	TS
Mulching:	M
ECB or TRM:	●
FGM:	FGM
BFM:	BFM
Permanent Seeding:	PS
Sodding:	SO
Riprap:	●
Outlet Protection:	RIPRAP ECB or TRM
Dust Control:	DC
Polyacrylamide (PAM):	PAM

Sediment Control

Sediment Basin:	◓
Temporary Sediment Trap:	◓
Rock Sediment Dike:	◠
Rock Check Dam:	▯ ▯ OR ▶ ▶
Sediment Tube:	◡
Silt Fence:	■—■—■
Reinforced Silt Fence:	■×■×■
Type A-Fabric Inlet Protection:	A
Type A-Sediment Tube Inlet Protection:	Ⓐ
Type B - Wire Mesh and Stone Drop Inlet Protection:	B
Type C - Block and Gravel Inlet Protection:	C
Type D - Rigid Inlet Filters:	D
Type E - Surface Course Curb Inlet Filter:	E
Type F - Inlet Tube:	F
Type FC - Filter Bag Curb Inlet Protection:	FC
Type FB - Filter Bag Grate Inlet Protection:	FG
Concrete Washout	CWS

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23 PROMENADE STREET
SUITE 201
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843-757-7411

STRUCTURAL
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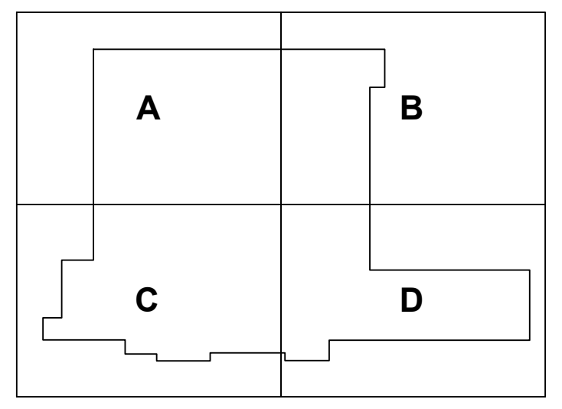

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NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

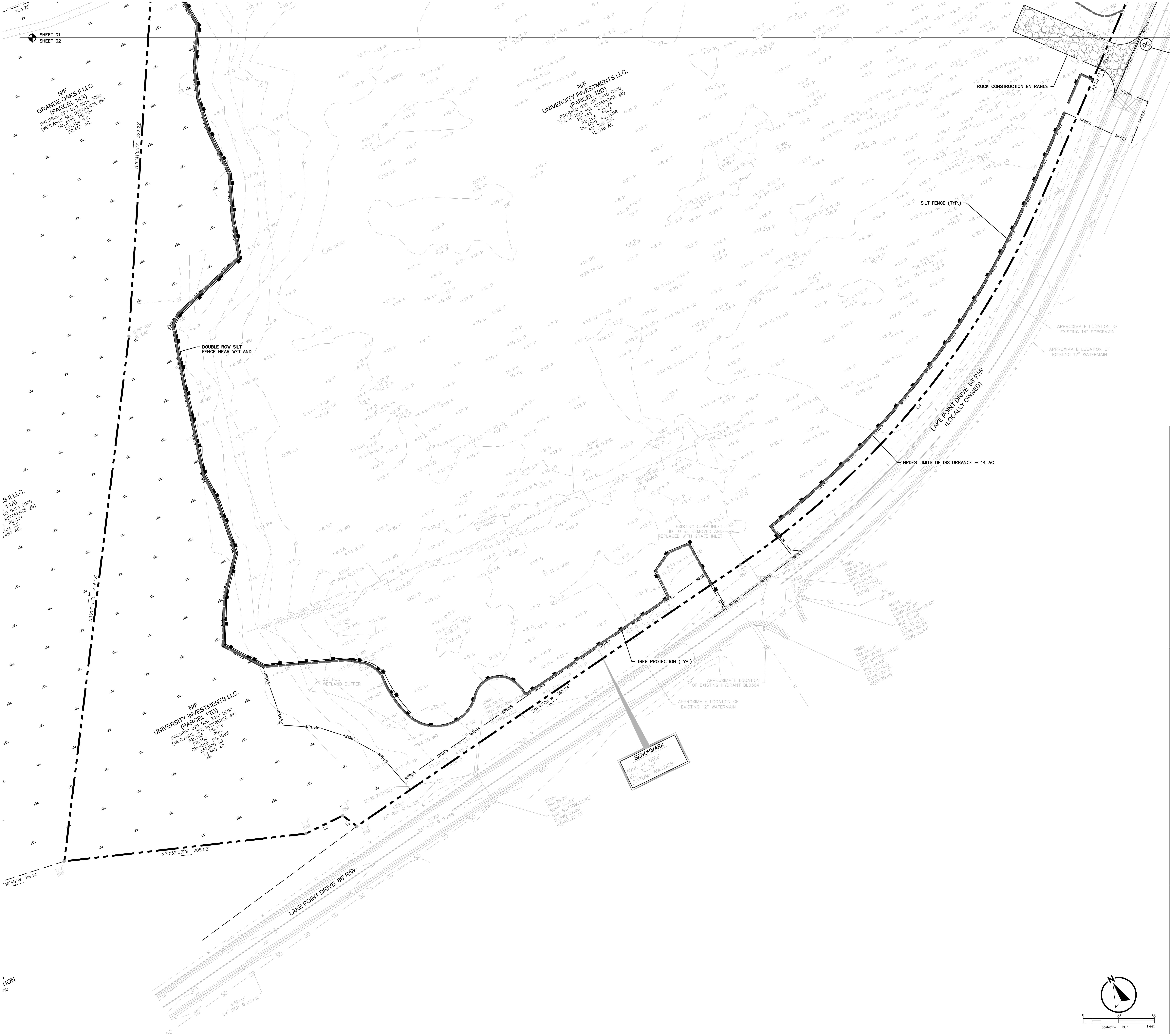
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
INITIAL EROSION
CONTROL PLAN

SHEET NUMBER
C-201

ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION


SHEET 01
SHEET 02
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN:R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB:3093 PG:104
891,104 S.F.
20.457 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN:R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB:153 PG:176
PB:163 PG:3
DB:4019 PG:1098
537,900 S.F.
12.348 AC.
N39°41'05"E 322.22'
N33°20'54"E 446.18'
N70°32'03"W 205.08'
S81°41'05"W 391.24'
ROCK CONSTRUCTION ENTRANCE
USE DUST CONTROL MEASURES AND SWEEPING AS NEEDED TO KEEP SEDIMENT OFF EXISTING STREETS.
DC
SILT FENCE (TYP.)
DOUBLE ROW SILT FENCE NEAR WETLAND
NPDES LIMITS OF DISTURBANCE = 14 AC
TREE PROTECTION (TYP.)
NPDES
LAKE POINT DRIVE 66' R/W (LOCALLY OWNED)
LAKE POINT DRIVE 66' R/W
BENCHMARK
NAIL IN TREE
EL: 30.36'
DATUM: NAVD88
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
APPROXIMATE LOCATION OF EXISTING HYDRANT BLG304
EXISTING CURB INLET LID TO BE REMOVED AND REPLACED WITH GRATE INLET
30' PUD WETLAND BUFFER
CENTERLINE OF SWALE
0
30
60
Scale:1"= 30'
Feet

Limits of Disturbance:	NPDES

Erosion Prevention

Land Grading:	LG OR
Surface Roughening:	
Topsoiling:	
Temporary Seeding:	TS
Mulching:	M
ECB or TRM:	
FGM:	FGM
BFM:	BFM
Permanent Seeding:	PS
Sodding:	SO
Riprap:	
Outlet Protection:	RIPRAP ECB or TRM
Dust Control:	DC
Polyacrylamide (PAM):	PAM

Sediment Control

Sediment Basin:	
Temporary Sediment Trap:	
Rock Sediment Dike:	
Rock Check Dam:	OR ▶ ▶
Sediment Tube:	
Silt Fence:	■—■—■
Reinforced Silt Fence:	■×■×■
Type A-Fabric Inlet Protection:	A
Type A-Sediment Tube Inlet Protection:	A
Type B - Wire Mesh and Stone Drop Inlet Protection:	B
Type C - Block and Gravel Inlet Protection:	C
Type D - Rigid Inlet Filters:	D
Type E - Surface Course Curb Inlet Filter:	E
Type F - Inlet Tube:	F
Type FC - Filter Bag Curb Inlet Protection:	FC
Type FB - Filter Bag Grate Inlet Protection:	FG
Concrete Washout	CWS

Runoff Conveyance Measures

Vegetated Channels:	
Riprap-Lined Channels:	
ECB OR TRM-Lined Channels:	
Paved Channels:	PC PC PC
Pipe Slope Drains:	
Temporary Stream Crossing:	T
Temporary Diversion Ditch or Swale:	TD TD
Permanent Diversion Ditch:	PD PD
Diversion Dike or Berm:	DD DB
Level Spreader:	
Subsurface Drain:	SSD SSD

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KEYPLAN

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REVISION	DESCRIPTION	DATE

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BLUFFTON HOSPITAL
BLUFFTON, SC

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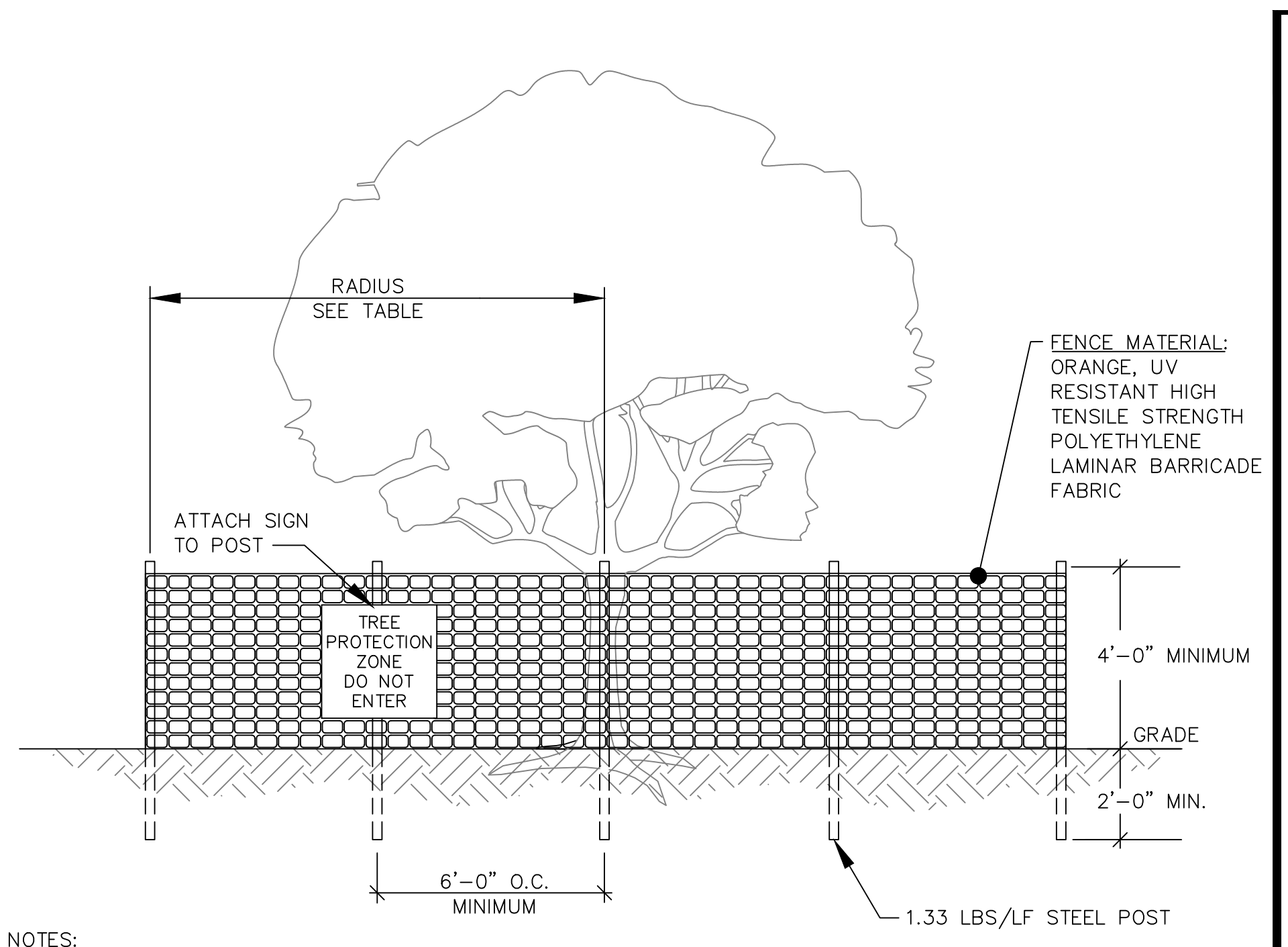
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
INITIAL EROSION
CONTROL PLAN

SHEET NUMBER
C-202

ATTACHMENT 7



NOTES:

1. ALL TREES DESIGNATED TO BE SAVED SHALL BE PROTECTED BY FENCING.
2. INSTALL TREE PROTECTION FENCE TO RADIUS INDICATED IN TABLE UNLESS OTHERWISE INDICATED ON PLANS.
3. WARNING SIGNS TO BE MADE OF DURABLE WATERPROOF MATERIAL.
4. ALL WARNING SIGN LETTERS TO BE AT LEAST 3 INCHES HIGH, CLEARLY LEGIBLE AND SPACED A MINIMUM OF ONE EVERY 40 FT. FOR PROTECTION AREAS LESS THAN 40 FT IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER SIDE.
5. THE SIZE OF EACH WARNING SIGN MUST BE A MINIMUM OF 2' x 2' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
8. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. FENCING MUST REMAIN UPRIGHT AND SLACK FREE.

TABLE – RADIUS OF TREE PROTECTION ZONE (TPZ)

JURISDICTION	RADIUS OF CIRCULAR TPZ
BEAUFORT COUNTY BEAUFORT CO. DEV. CODE 5.11.100	1 FOOT PER INCH OF TRUNK DBH
TOWN OF BLUFFTON UDO 5.3.3	1.5 FEET PER INCH OF TRUNK DBH OR 10 FEET WHICHEVER IS GREATER
TOWN OF HILTON HEAD LMO 16–6–104, J–3A	FENCING AT DRIP LINE FOR ALL TREES TO BE RETAINED
CITY OF BEAUFORT BEAUFORT CODE 5.3.3	0.5 FOOT PER INCH OF TRUNK DBH
JASPER COUNTY ZONING ORD. ART. 13.5	FENCING AT DRIP LINE FOR ALL TREES TO BE RETAINED
TOWN OF PORT ROYAL PORT ROYAL CODE 5.7.70	1.5 FEET PER INCH OF TRUNK DBH OR 5 FEET WHICHEVER IS GREATER
CITY OF HARDEEVILLE MZ&DO 4.8, F–3	FENCING AT DRIP LINE FOR ALL TREES TO BE RETAINED

DBH = TRUNK DIAMETER AT BREAST HEIGHT

TREE PROTECTION FENCE

DETAIL #02915-008

ADHESIVE	WATER DILUTION	NOZZLE TYPE	APPLICATION (GAL./ACRE)
ANIONIC ASPHALT EMULSION	7:1*	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1*	FINE SPRAY	235
RESIN–IN–WATER EMULSION	4:1*	FINE SPRAY	300

*USE MANUFACTURER'S RECOMMENDATIONS WHEN AVAILABLE.

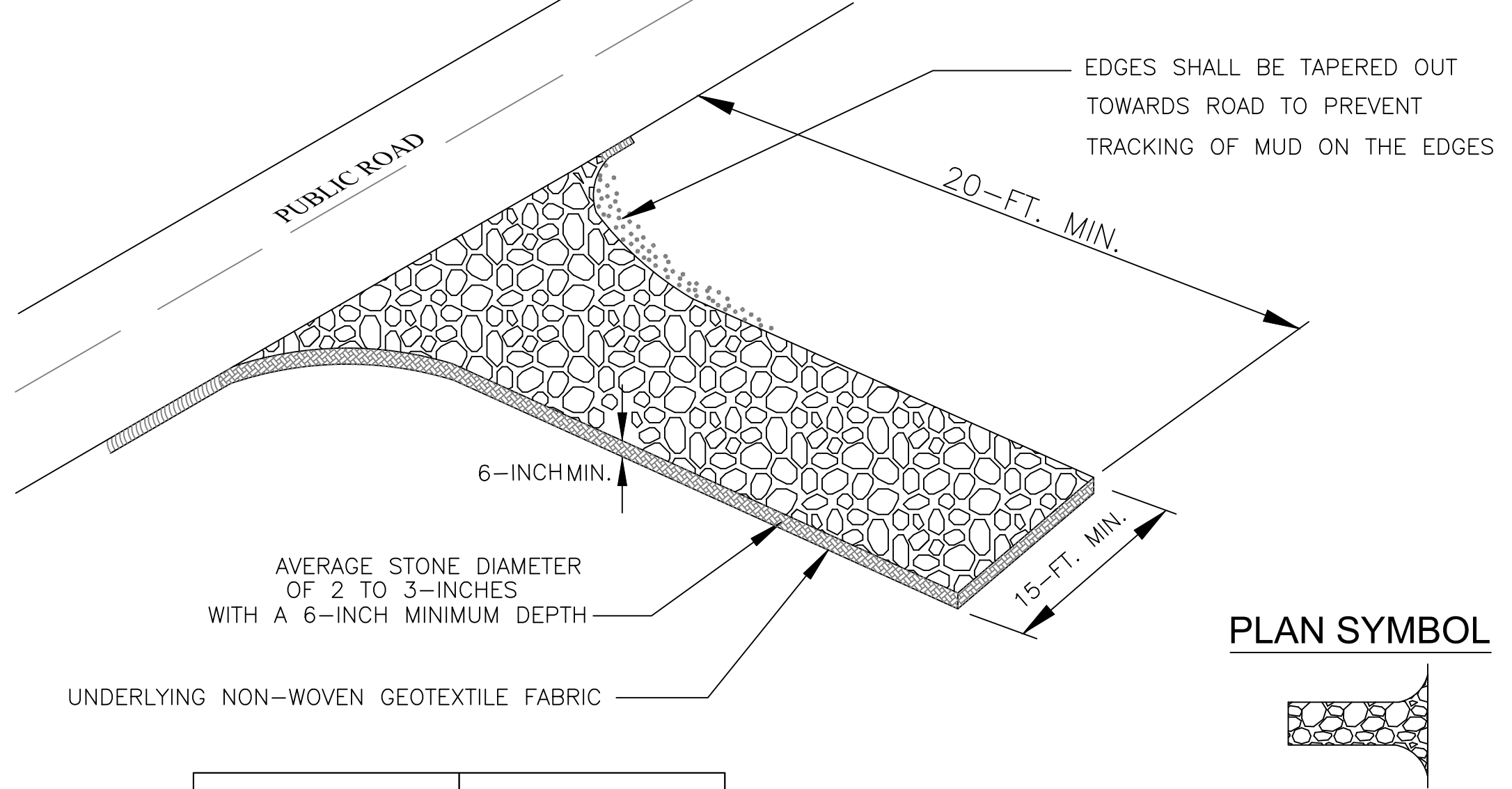
MAINTENANCE:

- PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
- SUPPLEMENT SURFACE COVERING AS NEEDED.

INSTALLATION:

- APPLY ACCORDING TO APPROVED PLAN.
- MULCH DISTURBED AREAS AMD TACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL OR TERRATACK ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION.
- IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET.
- COVER SURFACES WITH CRUSHED STONE OR GRAVEL.
- APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST.
- APPLY SPRAY–ON ADHESIVES TO MINERAL SOILS (NOT MUCK SOILS) AS DESCRIBED IN TABLE 1.

DC DUST CONTROL ON DISTURBED AREAS


PUBLIC ROAD
EDGES SHALL BE TAPERED OUT
TOWARDS ROAD TO PREVENT
TRACKING OF MUD ON THE EDGES
20–FT. MIN.
6–INCH MIN.
15–FT. MIN.
AVERAGE STONE DIAMETER
OF 2 TO 3–INCHES
WITH A 6–INCH MINIMUM DEPTH
UNDERLYING NON–WOVEN GEOTEXTILE FABRIC
PLAN SYMBOL

SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	15 FEET
ROCK PAD LENGTH	20 FEET
ROCK PAD STONE SIZE	D50 = 2–3 INCHES

South Carolina Department of
Health and Environmental Control
RESIDENTIAL LOT
CONSTRUCTION ENTRANCE
STANDARD DRAWING NO. SC–06A PAGE 1 of 2
NOT TO SCALE FEBRUARY 2014
DATE

CONSTRUCTION ENTRANCE – GENERAL NOTES

1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
2. Install a non–woven geotextile fabric prior to placing any stone.
3. Install a culvert pipe across the entrance when needed to provide positive drainage.
4. The entrance shall consist of 2–inch to 3–inch D50 stone placed at a minimum depth of 6–inches.
5. Minimum dimensions of the entrance shall be 15–feet wide by 20–feet long, and may be modified as necessary to accommodate site constraints.
6. The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
8. Limestone may not be used for the stone pad.

CONSTR. ENTRANCE – INSPECTION & MAINTENANCE

1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
4. Reshape the stone pad as necessary for drainage and runoff control.
5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off–site by vehicles. Frequent washing will extend the useful life of stone pad.
6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
7. During maintenance activities, any broken pavement should be repaired immediately.
8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post–construction.

South Carolina Department of
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RESIDENTIAL LOT
CONSTRUCTION ENTRANCE
STANDARD DRAWING NO. SC–06A PAGE 2 of 2
GENERAL NOTES FEBRUARY 2014
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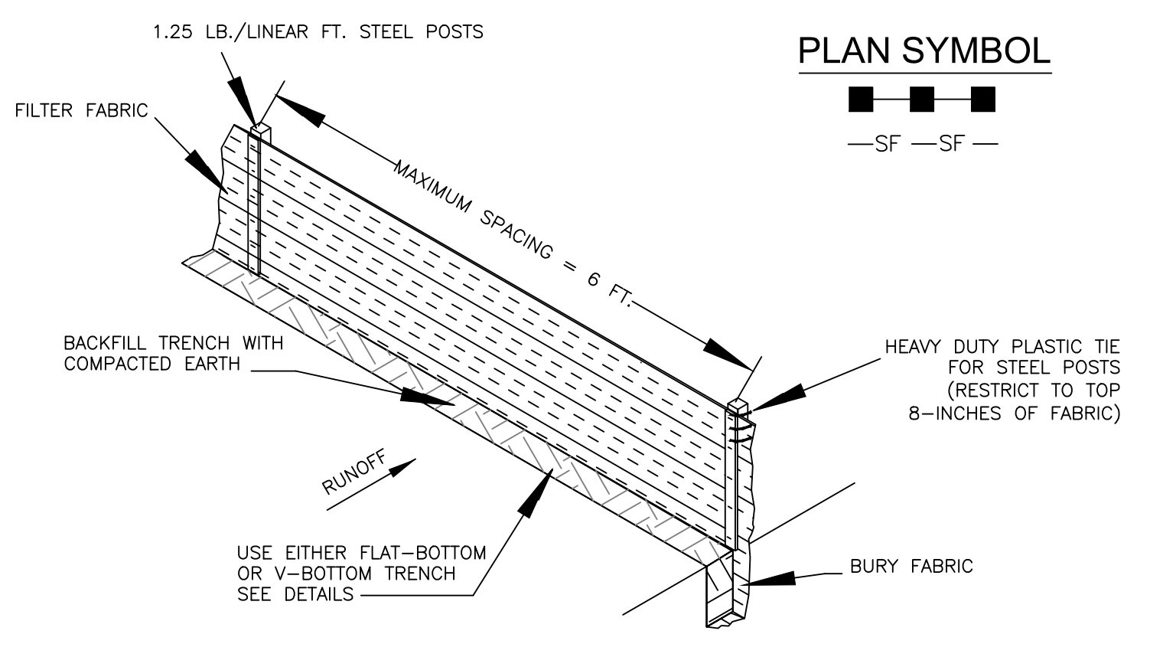
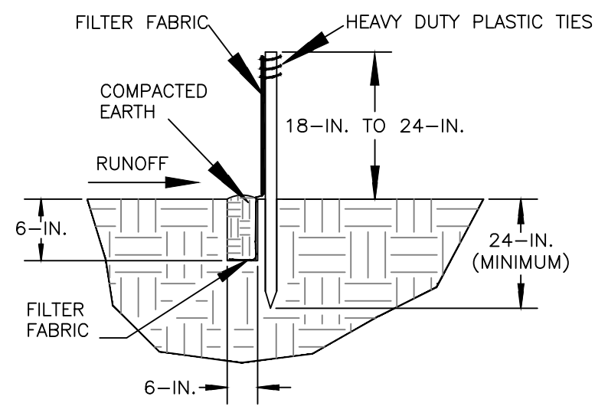
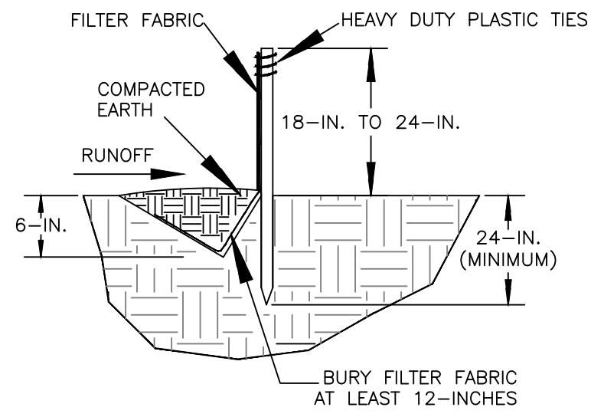
SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



SILT FENCE – GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
2. Maximum sheet or overland flow path length to the silt fence shall be 100–feet.
3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
4. Silt fence joints, when necessary, shall be completed by one of the following options:
    - Wrap each fabric together at a support post with both ends fastened to the post, with a 1–foot minimum overlap;
    - Overlap silt fence by installing 3–feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy–duty plastic ties; or,
    - Overlap entire width of each silt fence roll from one support post to the next support post.
5. Attach filter fabric to the steel posts using heavy–duty plastic ties that are evenly spaced within the top 8–inches of the fabric.
6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
7. Install Silt Fence Checks (Tie–Backs) every 50–100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

South Carolina Department of
Health and Environmental Control
SILT FENCE
STANDARD DRAWING NO. SC–03 Page 1 of 2
NOT TO SCALE FEBRUARY 2014
DATE

SILT FENCE – POST REQUIREMENTS

1. Silt Fence posts must be 48–inch long steel posts that meet, at a minimum, the following physical characteristics.
    - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
    - Include a standard "T" section with a nominal face width of 1.38–inches and a nominal "T" length of 1.48–inches.
    - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17–square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
4. Install posts to a minimum of 24–inches. A minimum height of 1– to 2–inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
5. Post spacing shall be at a maximum of 6–feet on center.

SILT FENCE – FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
    - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
    - Free of any treatment or coating which might adversely alter its physical properties after installation;
    - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
    - Have a minimum width of 36–inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12–inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24–inches above the ground.

SILT FENCE – INSPECTION & MAINTENANCE

1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie–backs and/or reinstall silt fence, as necessary.
7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

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Health and Environmental Control
SILT FENCE
STANDARD DRAWING NO. SC–03 PAGE 2 of 2
GENERAL NOTES FEBRUARY 2014
DATE

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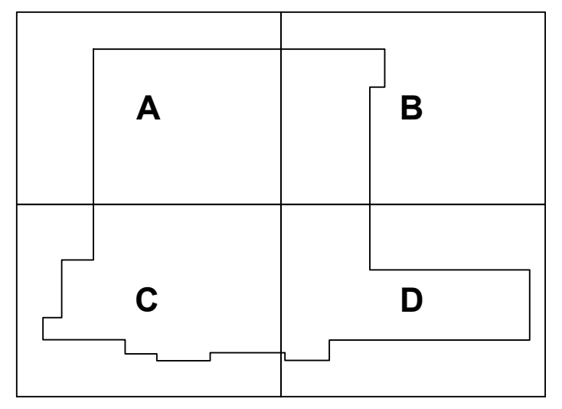

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PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL

DRAWN BY	CHECKED BY
GFONSECA	LKINCAID

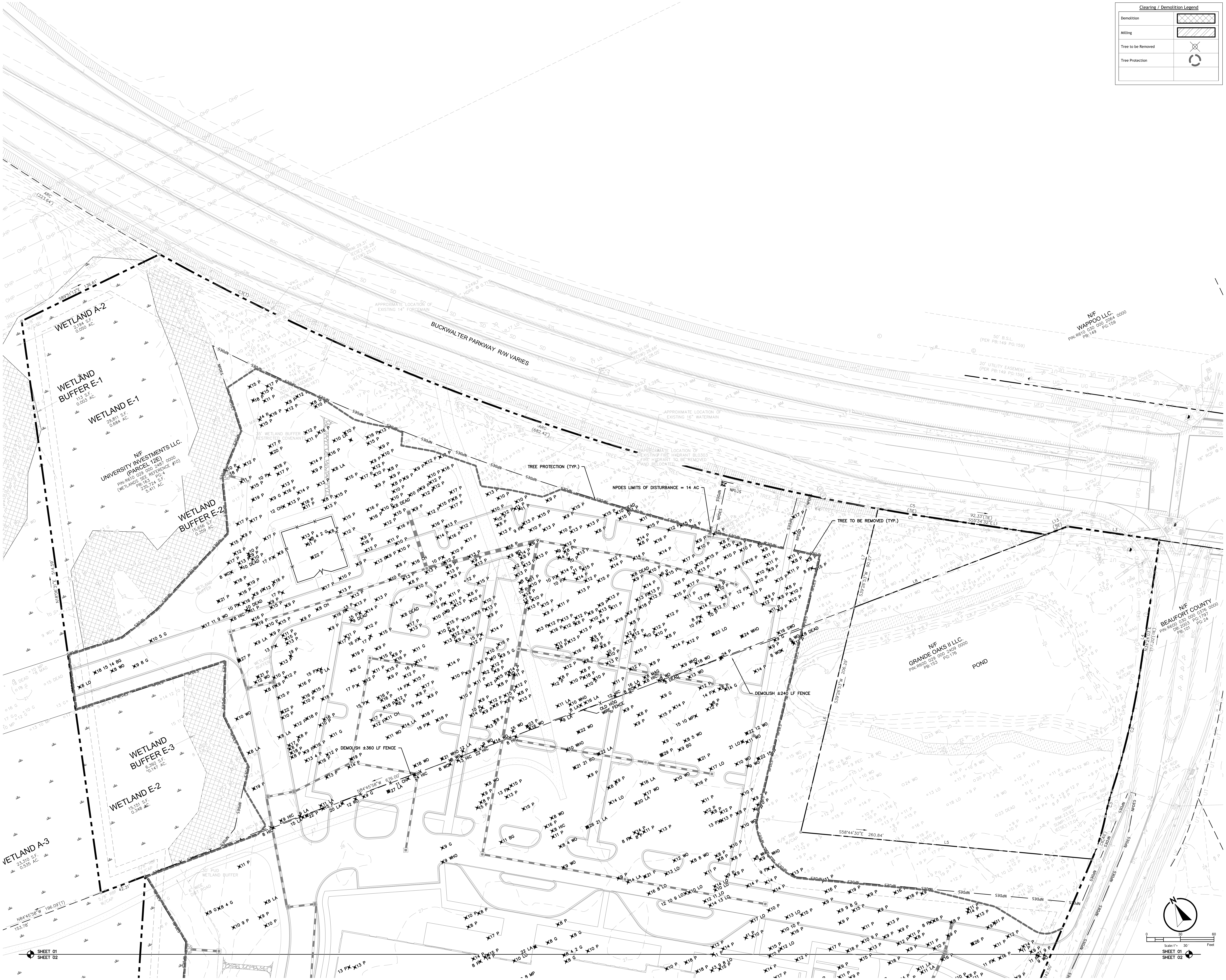
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
INITIAL EROSION
CONTROL DETAILS

SHEET NUMBER
C-203

ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION


WETLAND A-2
2,194 S.F.
0.050 AC.
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12E)
PIN:R610 029 000 2487 0000
(WETLANDS SEE REFERENCE #10)
PB:163 PG:4
235,724 S.F.
5.411 AC.
WETLAND BUFFER E-2
15,656 S.F.
0.359 AC.
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
BUCKWALTER PARKWAY R/W VARIES
N/F
WAPPOO LLC.
PIN:R610 030 000 2064 0000
PB:149 PG:159
N/F
GRANDE OAKS II LLC.
PIN:R600 029 000 2409 0000
PB:153 PG:176
POND
N/F
BEAUFORT COUNTY
PIN:R600 030 000 0376 0000
DB:2003 PG:1797
PB:101 PG:24
TREE PROTECTION (TYP.)
NPDES LIMITS OF DISTURBANCE = 14 AC
TREE TO BE REMOVED (TYP.)
DEMOLISH ±240 LF FENCE
DEMOLISH ±360 LF FENCE
OLD HOG WIRE FENCE
S58°44'30"E 260.84'
N84°45'58"W 196.09'(T)
SHEET 01
SHEET 02
0 30 60
Feet
Scale:1"= 30'

Clearing / Demolition Legend

Demolition	▨
Milling	▨
Tree to be Removed	⊗
Tree Protection	○

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843-837-5250

LANDSCAPE
WITMER JONES KEEFER
23 PROMENADE STREET
SUITE 201
BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

MEP/FP/LV
DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141

No. 22816
01/23/26
PAUL R. MOORE

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No. C00152

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P.O. Box 381, Bluffton,
South Carolina 29910

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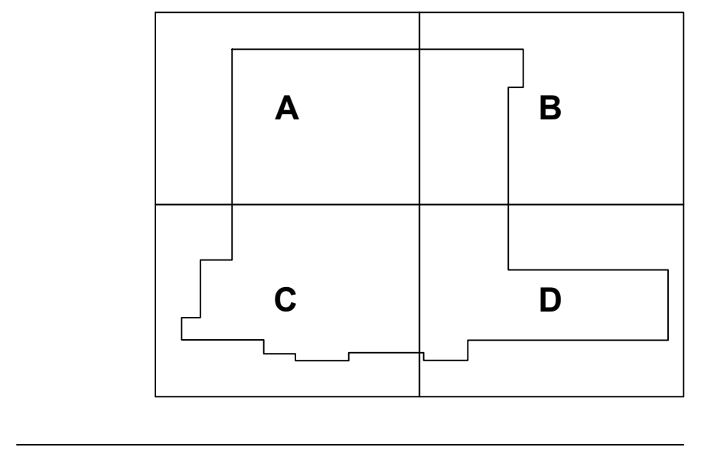
www.WardEdwards.com

WE JOBNUMBER: 230641

KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

INTERIM REVIEW
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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

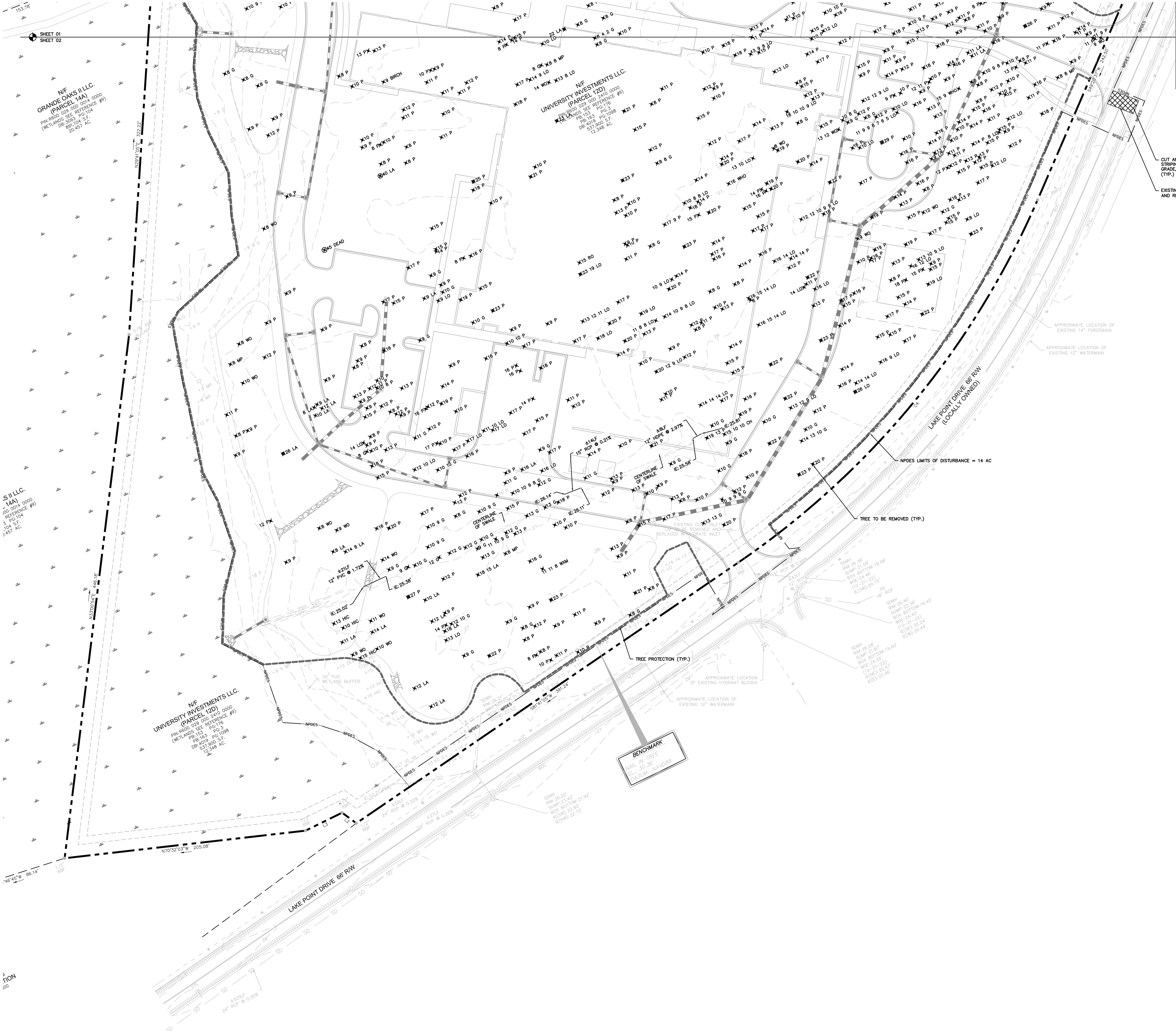
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
CLEARING &
DEMOLITION PLAN

SHEET NUMBER
C-301

ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION


SHEET 01
SHEET 02
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN: R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB:3093 PG:104
891,104 S.F.
20.457 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN: R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB:153 PG:176
DB:4019 PG:1098
537,900 S.F.
12.348 AC.
N29°41'05"E 322.22'
N33°00'54"E 446.18'
N70°32'03"W 205.08'
CUT AND PATCH ASPHALT, CURB, AND STRIPING TO MATCH EXISTING STYLE, GRADE, THICKNESS AND STRENGTH (TYP.)
EXISTING STRIPING TO BE ERADICATED AND REPLACED AS NECCESSARY (TYP.)
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
LAKE POINT DRIVE 66' R/W (LOCALLY OWNED)
NPDES LIMITS OF DISTURBANCE = 14 AC
TREE TO BE REMOVED (TYP.)
TREE PROTECTION (TYP.)
EXISTING CURB INLET TO BE REMOVED AND REPLACED WITH GRATE INLET
CENTERLINE OF SWALE
30' PUD WETLAND BUFFER
APPROXIMATE LOCATION OF EXISTING HYDRANT BL0304
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
BENCHMARK
NAIL IN TREE
EL: 30.56
DATUM: NAVD88
LAKE POINT DRIVE 66' R/W
NPDES
0
30
60
Scale: 1" = 30'
Feet

Clearing / Demolition Legend

Demolition	▨
Milling	▨
Tree to be Removed	⊗
Tree Protection	○

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843-849-1141

SOUTH CAROLINA
PROFESSIONAL ENGINEER
LICENSED
No. 22816
01/23/26
PAUL R. MOORE

SOUTH CAROLINA
WARD
EDWARDS, INC.
No. C00152
CERTIFICATE OF AUTHORIZATION

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South Carolina 29910
(843) 837-5250
www.WardEdwards.com
WE JOBNUMBER: 230641

KEYPLAN

A
B
C
D

REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

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NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

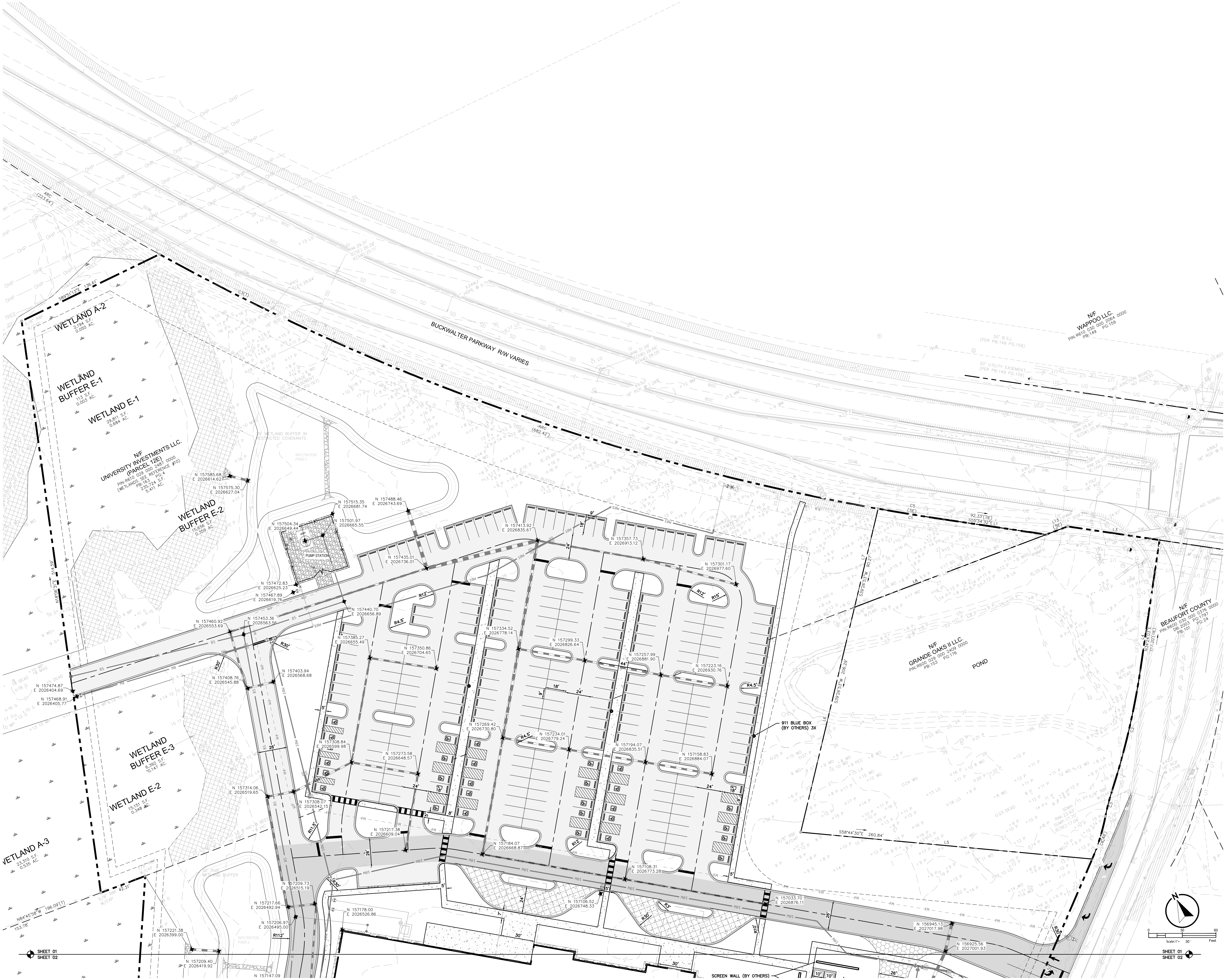
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
CLEARING &
DEMOLITION PLAN

SHEET NUMBER
C-302

ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION


BUCKWALTER PARKWAY R/W VARIES
WETLAND A-2
2,194 S.F.
0.050 AC.
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12E)
PIN:R610 029 000 2487 0000
(WETLANDS SEE REFERENCE #10)
PB:163 PG:4
235,724 S.F.
5.411 AC.
WETLAND BUFFER E-2
15,656 S.F.
0.359 AC.
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
S89°51'13"E 136.61'
ARC (223.64')
ARC (682.42')
N84°45'58"W 196.09'(T)
153.78'
42.31'
PUMP STATION
N/F
WAPPOO LLC.
PIN:R610 030 000 2064 0000
PB:149 PG:159
50' B.S.L. (PCR PB:149 PG:159)
20' UTILITY EASEMENT (PCR PB:149 PG:159)
N/F
GRANDE OAKS II LLC.
PIN:R600 029 000 2409 0000
PB:153 PG:176
POND
N/F
BEAUFORT COUNTY
PIN:R600 030 000 0376 0000
DB:2001 PG:1797
PB:101 PG:24
S39°29'53"W 90.27'
S39°29'53"W 206.29'
S58°44'30"E 260.84'
92.33'(TIE)
S55°34'32"E L1
C5 (TIE)
C1
L13 (TIE)
L3
L5
L6
L7
C2
C3
911 BLUE BOX (BY OTHERS) 3X
SCREEN WALL (BY OTHERS)
SHEET 01
SHEET 02
N 157585.68 E 2026614.62
N 157575.30 E 2026627.04
N 157515.35 E 2026681.74
N 157488.46 E 2026743.69
N 157504.34 E 2026649.44
N 157501.97 E 2026665.55
N 157413.92 E 2026835.67
N 157357.73 E 2026913.12
N 157301.17 E 2026977.60
N 157435.01 E 2026736.01
N 157472.83 E 2026625.23
N 157467.89 E 2026619.76
N 157440.70 E 2026656.89
N 157460.92 E 2026553.69
N 157453.36 E 2026563.56
N 157385.27 E 2026655.49
N 157334.52 E 2026778.14
N 157350.86 E 2026704.65
N 157299.33 E 2026826.64
N 157257.99 E 2026881.90
N 157223.16 E 2026930.76
N 157403.94 E 2026568.68
N 157408.76 E 2026545.88
N 157474.87 E 2026404.69
N 157468.91 E 2026405.77
N 157269.42 E 2026730.80
N 157234.01 E 2026779.24
N 157194.07 E 2026835.51
N 157158.83 E 2026884.07
N 157308.84 E 2026599.98
N 157273.58 E 2026648.57
N 157314.06 E 2026519.65
N 157308.07 E 2026542.15
N 157217.38 E 2026609.04
N 157184.07 E 2026668.87
N 157108.31 E 2026773.28
N 157209.73 E 2026515.19
N 157217.66 E 2026492.94
N 157206.97 E 2026495.00
N 157178.00 E 2026526.86
N 157106.52 E 2026748.33
N 157033.70 E 2026876.11
N 156945.13 E 2027017.98
N 156925.56 E 2027001.93
N 157221.38 E 2026399.00
N 157209.40 E 2026419.92
N 157147.09
R12'
R15'
R4.5'
R30'
R11.5'
R3'
R112'
R10'
18'
24'
26'
30'
9'
5'
8'
10'
44'
Scale:1" = 30'
0
30
60
Feet

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PAUL R. MOORE
No. 22816
01/23/26

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No. C00152

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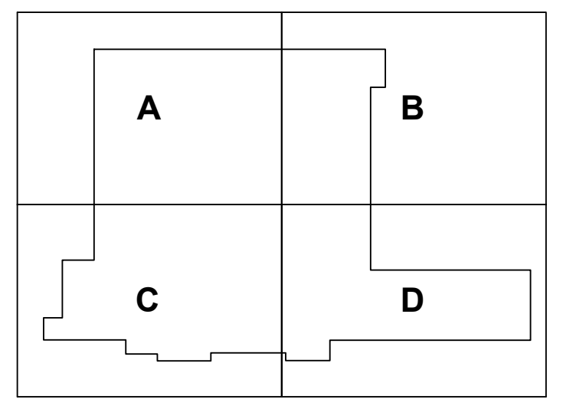
KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL

DRAWN BY	CHECKED BY
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
SITE LAYOUT PLAN

SHEET NUMBER
C-401

ATTACHMENT 7

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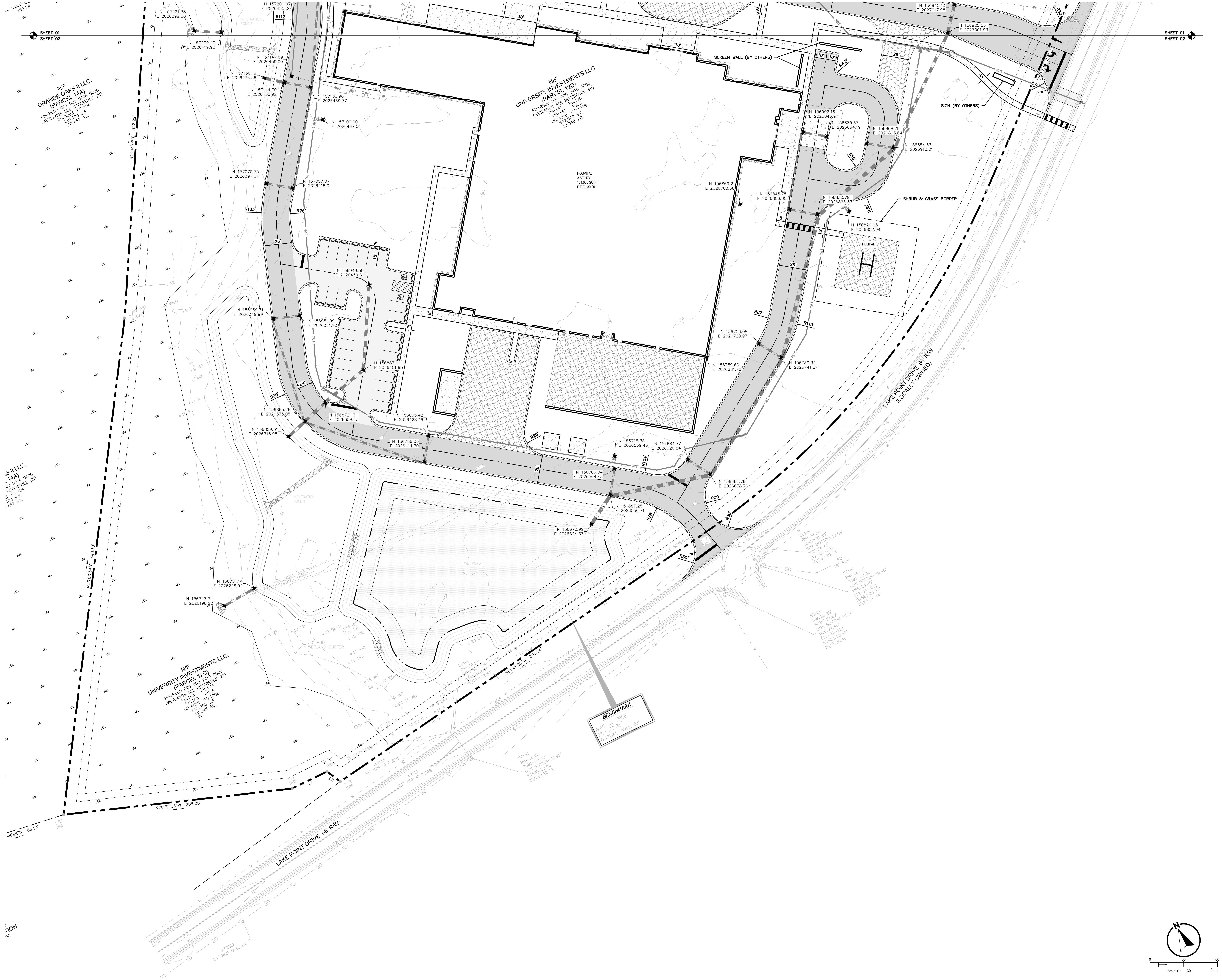
SHEET 01
SHEET 02
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN:R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB:3093 PG:104
891,104 S.F.
20.457 AC.
153.78'
N29°41'05"E 322.22'
N33°00'54"E 446.18'
5/8" RBF W/CAP
N 157221.38
E 2026399.00
N 157209.40
E 2026419.92
N 157206.97
E 2026495.00
INFILTRATION POND 2
R112'
N 157147.09
E 2026459.00
N 157156.19
E 2026436.56
N 157144.70
E 2026450.92
N 157130.90
E 2026469.77
N 157100.00
E 2026467.04
N 157070.75
E 2026397.07
N 157057.07
E 2026416.01
R163'
R76'
26'
9'
18'
N 156949.59
E 2026439.61
N 156959.71
E 2026349.99
N 156951.99
E 2026371.93
5'
8'
N 156883.61
E 2026401.95
R64'
R90'
N 156865.26
E 2026335.05
N 156872.13
E 2026358.43
N 156859.31
E 2026315.95
N 156805.42
E 2026428.46
N 156786.05
E 2026414.70
R20'
N 156716.35
E 2026569.46
N 156684.77
E 2026626.84
R104'
N 156706.04
E 2026564.43
N 156687.25
E 2026550.71
R78'
N 156670.99
E 2026524.33
INFILTRATION POND 3
WET POND
N 156751.14
E 2026228.94
N 156748.74
E 2026198.22
30' PUD WETLAND BUFFER
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN:R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB:153 PG:176
PB:163 PG:3
DB:4019 PG:1098
537,900 S.F.
12.348 AC.
HOSPITAL
3 STORY
164,000 SQ.FT
F.F.E.: 30.00'
30'
R10'
SCREEN WALL (BY OTHERS)
10'
10'
R4.5'
26'
N 156945.13
E 2027017.98
N 156925.56
E 2027001.93
R30'
SIGN (BY OTHERS)
N 156902.16
E 2026846.97
N 156889.67
E 2026864.19
N 156868.29
E 2026893.64
N 156854.63
E 2026913.01
R15'
N 156869.21
E 2026768.38
N 156845.75
E 2026806.00
N 156830.79
E 2026826.37
R36'
SHRUB & GRASS BORDER
N 156820.93
E 2026852.94
HELIPAD
H
16.5' BUFFER/33' SETBACK
1/2" RBFD
R87'
R113'
N 156750.08
E 2026728.97
N 156759.60
E 2026681.76
N 156730.34
E 2026741.27
C4
LAKE POINT DRIVE 66' R/W
(LOCALLY OWNED)
N 156664.79
E 2026638.76
R30'
R30'
R30'
1/2" RBF
±41LF 12" RCP @ 0.68%
±42LF 12" RCP @ 0.05%
SDMH
RIM: 26.36'
SUMP: 21.59'
BOX BOTTOM: 19.58'
WSE: 24.46'
(12-21-22)
IE(SW): 20.75'
PD
18" RCP
SDMH
RIM: 26.40'
SUMP: 22.36'
BOX BOTTOM: 19.40'
WSE: 24.40'
(12-21-22)
IE(SE): 20.24'
IE(W): 20.44'
SDMH
RIM: 26.28'
SUMP: 21.87'
BOX BOTTOM: 19.60'
WSE: 24.45'
(12-21-22)
IE(NE): 20.47'
IE(E): 20.46'
S81°41'05"W 391.24'
BENCHMARK
NAIL IN TREE
EL.: 30.36'
DATUM: NAVD88
SDMH
RIM: 26.20'
SUMP: 23.42'
BOX BOTTOM: 21.92'
IE(SW): 22.90'
IE(NW): 22.72'
±55LF 24" RCP @ 0.32%
±27LF 24" RCP @ 0.26%
±525LF 24" RCP @ 0.26%
1/2" RBF
L2
L3
N70°32'03"W 205.08'
46'45"W 86.14'
LAKE POINT DRIVE 66' R/W
N
0
30
60
Feet
Scale:1" = 30'

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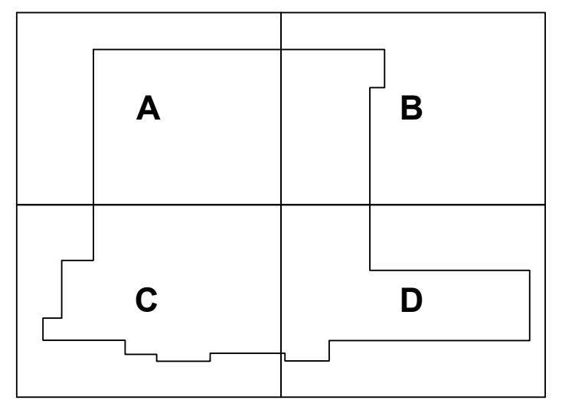
WE JOBNUMBER: 230641

KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
SITE LAYOUT PLAN

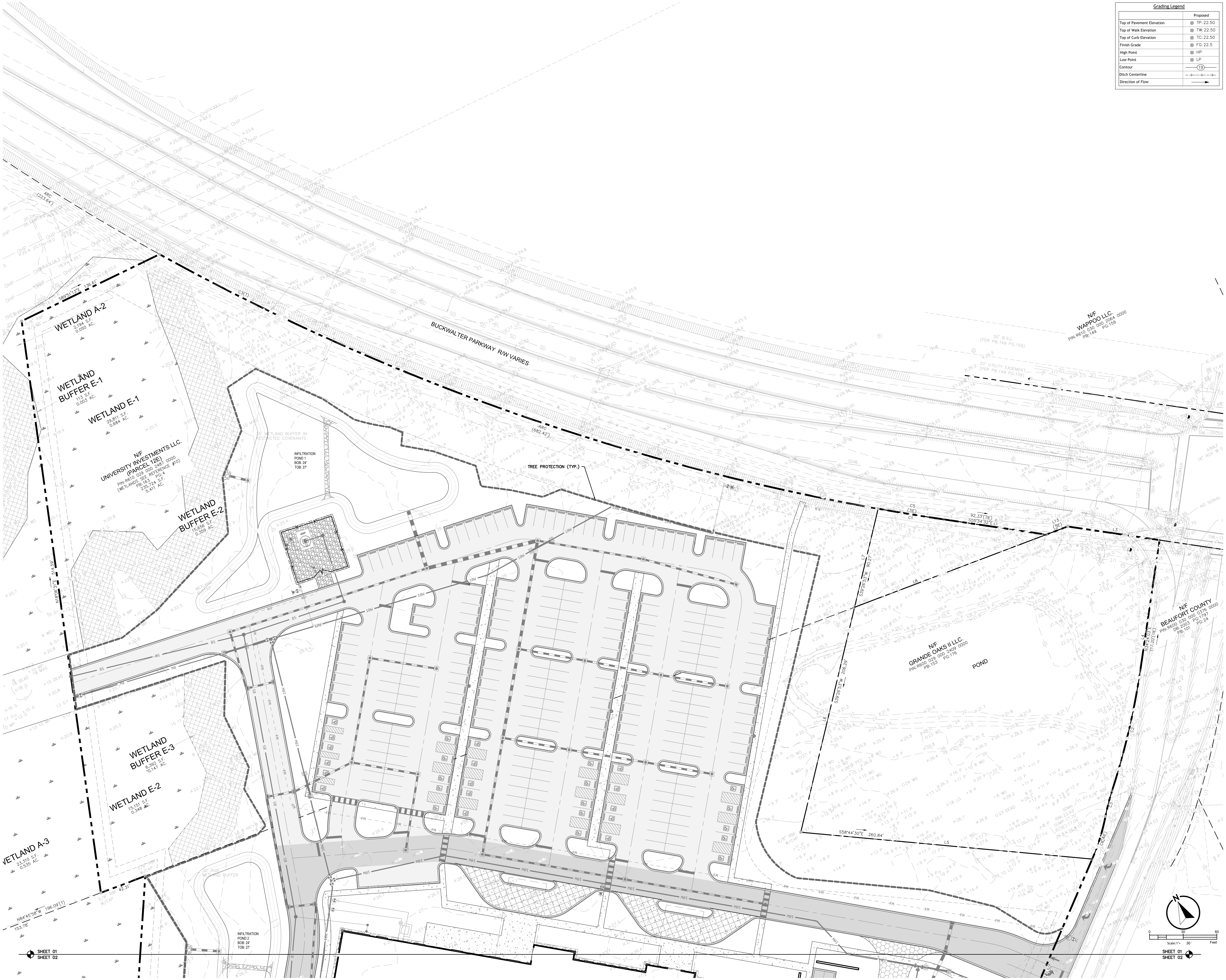
SHEET NUMBER
C-402

ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION

Grading Legend

	Proposed
Top of Pavement Elevation	⊗ TP: 22.50
Top of Walk Elevation	⊗ TW: 22.50
Top of Curb Elevation	⊗ TC: 22.50
Finish Grade	⊗ FG: 22.5
High Point	⊗ HP
Low Point	⊗ LP
Contour	—⑲—
Ditch Centerline	–→–––→–––→–
Direction of Flow	——►



WETLAND A-2
2,184 S.F.
0.050 AC.
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12E)
WETLAND BUFFER E-2
15,656 S.F.
0.359 AC.
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
BUCKWALTER PARKWAY R/W VARIES
INFILTRATION POND 1
BOB: 24'
TOB: 27'
INFILTRATION POND 2
BOB: 24'
TOB: 27'
TREE PROTECTION (TYP.)
N/F
WAPPOO LLC.
N/F
GRANDE OAKS II LLC.
POND
N/F
BEAUFORT COUNTY
SHEET 01
SHEET 02
0
30
60
Scale:1"= 30'
Feet

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912-234-0696

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BLUFFTON, SC 29910
843-837-5250

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23 PROMENADE STREET
SUITE 201
BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

MEP/FP/LV
DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141

PAUL R. MOORE
No. 22816
01/23/26

WARD EDWARDS, INC.
No. C00152

Ward Edwards ENGINEERING
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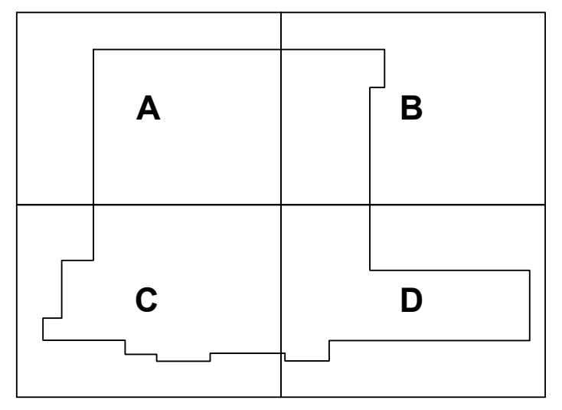
P.O. Box 381, Bluffton,
South Carolina 29910
(843) 837-5250
www.WardEdwards.com
WE JOBNUMBER: 230641

KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

INTERIM REVIEW
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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

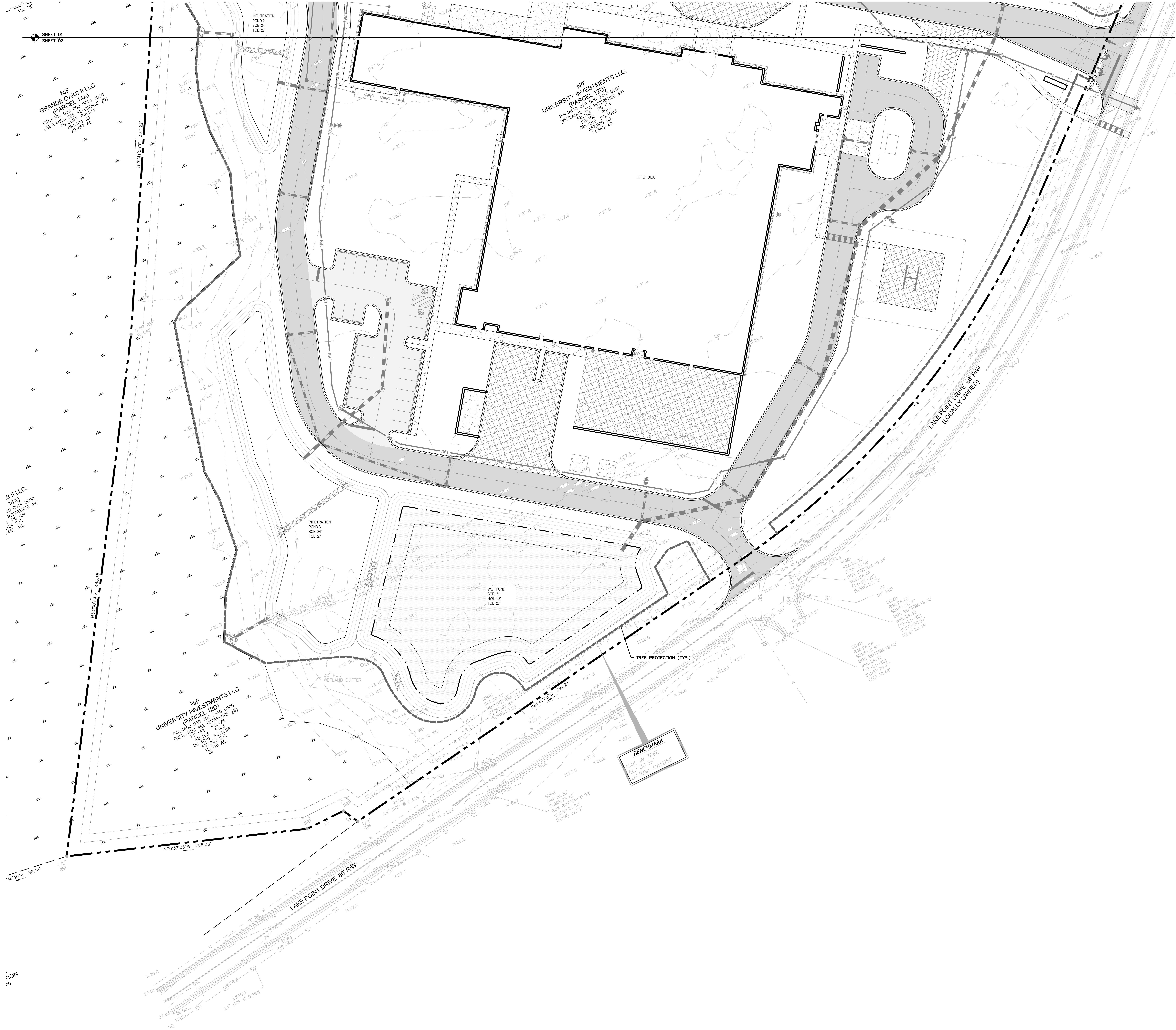
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
GRADING PLAN

SHEET NUMBER
C-501

ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION


153.78'
SHEET 01
SHEET 02
INFILTRATION
POND 2
BOB: 24'
TOB: 27'
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN: R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB: 3093 PG: 104
891,104 S.F.
20.457 AC.
N29°41'05"E 322.22'
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN: R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB: 153 PG: 176
PB: 163 PG: 3
DB: 4019 PG: 1098
537,900 S.F.
12.348 AC.
F.F.E.: 30.00'
LAKE POINT DRIVE 66' R/W
(LOCALLY OWNED)
INFILTRATION
POND 3
BOB: 24'
TOB: 27'
WET POND
BOB: 21'
NWL: 23'
TOB: 27'
30' PUD
WETLAND BUFFER
TREE PROTECTION (TYP.)
16.5' BUFFER/33' SETBACK
S81°41'05"W 391.24'
N33°20'54"E 446.18'
N70°32'03"W 205.08'
86.14'
SDMH
RIM: 26.21'
BOX BOTTOM: 21.54'
IE(SE): 22.65'
IE(NW): 22.53'
SDMH
RIM: 26.20'
SUMP: 23.42'
BOX BOTTOM: 21.92'
IE(SW): 22.90'
IE(NW): 22.72'
±55LF
24" RCP @ 0.32%
±27LF
24" RCP @ 0.26%
BENCHMARK
NAIL IN TREE
EL.: 30.36'
DATUM: NAVD88
LAKE POINT DRIVE 66' R/W

Grading Legend

	Proposed
Top of Pavement Elevation	⊗ TP: 22.50
Top of Walk Elevation	⊗ TW: 22.50
Top of Curb Elevation	⊗ TC: 22.50
Finish Grade	⊗ FG: 22.5
High Point	⊗ HP
Low Point	⊗ LP
Contour	—(19)—
Ditch Centerline	–→––→––→–
Direction of Flow	——►

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BLUFFTON, SC 29910
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WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

MEP/FP/LV
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1009 ANNA KNAPP BOULEVARD
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PAUL R. MOORE

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South Carolina 29910
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www.WardEdwards.com
WE JOBNUMBER: 230641

KEYPLAN

A B
C D

REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
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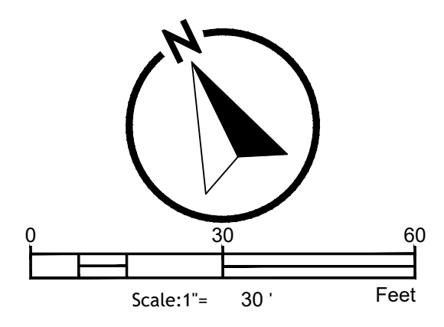
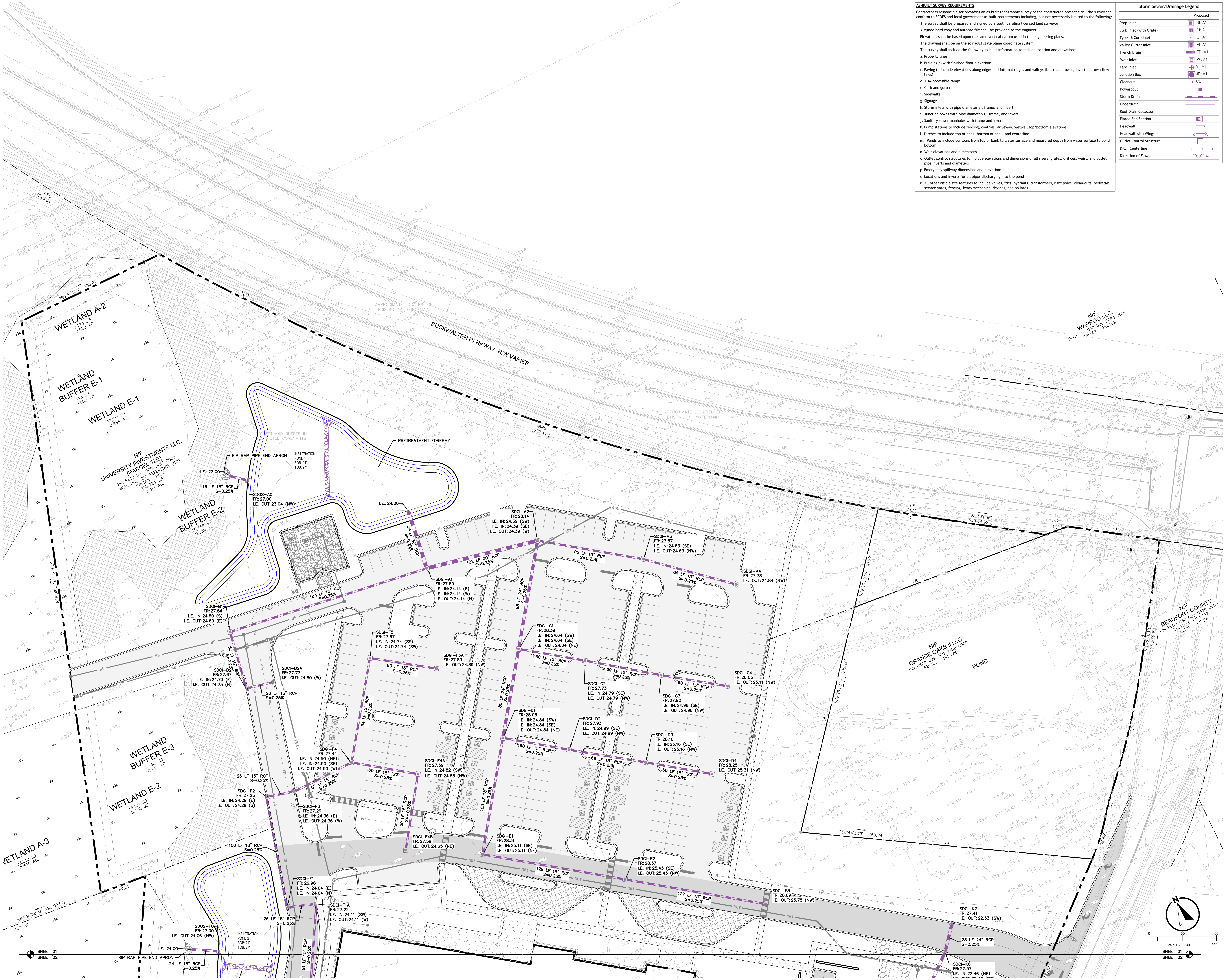
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
GRADING PLAN


N
0
30
60
Scale:1"= 30'
Feet

SHEET NUMBER
C-502

ATTACHMENT 7



WETLAND A-2
2,184 S.F.
0.050 AC.
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12E)
PIN:R610 028 000 2487 0000
(WETLANDS SEE REFERENCE #10)
PB:163 PG:4
235,724 S.F.
5.411 AC.
WETLAND BUFFER E-2
15,656 S.F.
0.359 AC.
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
BUCKWALTER PARKWAY R/W VARIES
N/F
WAPPOO LLC.
PIN:R610 030 000 2064 0000
PB:149 PG:159
N/F
GRANDE OAKS II LLC.
PIN:R600 029 000 2409 0000
PB:153 PG:176
POND
N/F
BEAUFORT COUNTY
PIN:R600 030 000 0376 0000
DB:2001 PG:1797
PB:101 PG:24
PRETREATMENT FOREBAY
RIP RAP PIPE END APRON
INFILTRATION
POND 1
BOB: 24'
TOB: 27'
I.E.: 23.00
16 LF 18" RCP
S=0.25%
SDOS-A0
FR: 27.00
I.E. OUT: 23.04 (NW)
I.E.: 24.00
54 LF 30" RCP
S=0.25%
SDGI-A2
FR: 28.14
I.E. IN: 24.39 (SW)
I.E. IN: 24.39 (SE)
I.E. OUT: 24.39 (W)
102 LF 30" RCP
S=0.25%
SDGI-A1
FR: 27.89
I.E. IN: 24.14 (E)
I.E. IN: 24.14 (W)
I.E. OUT: 24.14 (N)
184 LF 15" RCP
S=0.25%
SDGI-B1
FR: 27.54
I.E. IN: 24.60 (S)
I.E. OUT: 24.60 (E)
53 LF 15" RCP
S=0.25%
SDCI-B2
FR: 27.67
I.E. IN: 24.73 (E)
I.E. OUT: 24.73 (N)
SDCI-B2A
FR: 27.73
I.E. OUT: 24.80 (W)
26 LF 15" RCP
S=0.25%
SDGI-A3
FR: 27.57
I.E. IN: 24.63 (SE)
I.E. OUT: 24.63 (NW)
96 LF 15" RCP
S=0.25%
86 LF 15" RCP
S=0.25%
SDGI-A4
FR: 27.78
I.E. OUT: 24.84 (NW)
98 LF 24" RCP
S=0.25%
SDGI-F5
FR: 27.67
I.E. IN: 24.74 (SE)
I.E. OUT: 24.74 (SW)
60 LF 15" RCP
S=0.25%
SDGI-F5A
FR: 27.83
I.E. OUT: 24.89 (NW)
SDGI-C1
FR: 28.39
I.E. IN: 24.64 (SW)
I.E. IN: 24.64 (SE)
I.E. OUT: 24.64 (NE)
60 LF 15" RCP
S=0.25%
SDGI-C2
FR: 27.73
I.E. IN: 24.79 (SE)
I.E. OUT: 24.79 (NW)
69 LF 15" RCP
S=0.25%
SDGI-C3
FR: 27.90
I.E. IN: 24.96 (SE)
I.E. OUT: 24.96 (NW)
60 LF 15" RCP
S=0.25%
SDGI-C4
FR: 28.05
I.E. OUT: 25.11 (NW)
80 LF 24" RCP
S=0.25%
94 LF 15" RCP
S=0.25%
SDGI-D1
FR: 28.05
I.E. IN: 24.84 (SW)
I.E. IN: 24.84 (SE)
I.E. OUT: 24.84 (NE)
60 LF 15" RCP
S=0.25%
SDGI-D2
FR: 27.93
I.E. IN: 24.99 (SE)
I.E. OUT: 24.99 (NW)
69 LF 15" RCP
S=0.25%
SDGI-D3
FR: 28.10
I.E. IN: 25.16 (SE)
I.E. OUT: 25.16 (NW)
60 LF 15" RCP
S=0.25%
SDGI-D4
FR: 28.25
I.E. OUT: 25.31 (NW)
SDGI-F4
FR: 27.44
I.E. IN: 24.50 (NE)
I.E. IN: 24.50 (SE)
I.E. OUT: 24.50 (W)
60 LF 15" RCP
S=0.25%
57 LF 15" RCP
S=0.25%
SDGI-F4A
FR: 27.59
I.E. IN: 24.82 (SW)
I.E. OUT: 24.65 (NW)
26 LF 15" RCP
S=0.25%
SDCI-F2
FR: 27.23
I.E. IN: 24.29 (E)
I.E. OUT: 24.29 (S)
SDCI-F3
FR: 27.29
I.E. IN: 24.36 (E)
I.E. OUT: 24.36 (W)
69 LF 15" RCP
S=0.25%
SDGI-F4B
FR: 27.59
I.E. OUT: 24.65 (NE)
105 LF 18" RCP
S=0.25%
SDGI-E1
FR: 28.31
I.E. IN: 25.11 (SE)
I.E. OUT: 25.11 (NE)
129 LF 15" RCP
S=0.25%
SDGI-E2
FR: 28.37
I.E. IN: 25.43 (SE)
I.E. OUT: 25.43 (NW)
127 LF 15" RCP
S=0.25%
SDGI-E3
FR: 28.69
I.E. OUT: 25.75 (NW)
100 LF 18" RCP
S=0.25%
SDCI-F1
FR: 26.98
I.E. IN: 24.04 (E)
I.E. IN: 24.04 (N)
SDCI-F1A
FR: 27.22
I.E. IN: 24.11 (SW)
I.E. OUT: 24.11 (W)
26 LF 15" RCP
S=0.25%
SDOS-F0
FR: 27.00
I.E. OUT: 24.06 (NW)
INFILTRATION
POND 2
BOB: 24'
TOB: 27'
I.E.: 24.00
RIP RAP PIPE END APRON
24 LF 18" RCP
S=0.25%
91 LF 15" RCP
S=0.25%
SDCI-K7
FR: 27.41
I.E. OUT: 22.53 (SW)
28 LF 24" RCP
S=0.25%
SDCI-K6
FR: 27.57
I.E. IN: 22.46 (NE)
S58°44'30"E 260.84'
S39°26'53"W 206.29'
ARC (682.42')
50' HCOD BUFFER
SHEET 01
SHEET 02
0
30
60
Feet
Scale:1"= 30'

AS-BUILT SURVEY REQUIREMENTS

Contractor is responsible for providing an as-built topographic survey of the constructed project site. the survey shall conform to SCDES and local government as-built requirements including, but not necessarily limited to the following:

The survey shall be prepared and signed by a south carolina licensed land surveyor.

A signed hard copy and autocad file shall be provided to the engineer.

Elevations shall be based upon the same vertical datum used in the engineering plans.

The drawing shall be on the sc nad83 state plane coordinate system.

The survey shall include the following as-built information to include location and elevations:

a. Property lines
b. Building(s) with finished floor elevations
c. Paving to include elevations along edges and internal ridges and valleys (i.e. road crowns, inverted crown flow lines)
d. ADA-accessible ramps
e. Curb and gutter
f. Sidewalks
g. Signage
h. Storm inlets with pipe diameter(s), frame, and invert
i. Junction boxes with pipe diameter(s), frame, and invert
j. Sanitary sewer manholes with frame and invert
k. Pump stations to include fencing, controls, driveway, wetwell top/bottom elevations
l. Ditches to include top of bank, bottom of bank, and centerline
m. Ponds to include contours from top of bank to water surface and measured depth from water surface to pond bottom
n. Weir elevations and dimensions
o. Outlet control structures to include elevations and dimensions of all risers, grates, orifices, weirs, and outlet pipe inverts and diameters
p. Emergency spillway dimensions and elevations
q. Locations and inverts for all pipes discharging into the pond
r. All other visible site features to include valves, fdcs, hydrants, transformers, light poles, clean-outs, pedestals, service yards, fencing, hvac/mechanical devices, and bollards.

Storm Sewer/Drainage Legend

	Proposed
Drop Inlet	▣ DI: A1
Curb Inlet (with Grate)	▦ CI: A1
Type 16 Curb Inlet	▫ CI: A1
Valley Gutter Inlet	▥ VI: A1
Trench Drain	▥ TD: A1
Weir Inlet	◎ WI: A1
Yard Inlet	⊕ YI: A1
Junction Box	● JB: A1
Cleanout	• CO
Downspout	■
Storm Drain	━ ━ ━
Underdrain	—
Roof Drain Collector	—
Flared End Section	◁
Headwall	▭
Headwall with Wings	⏢
Outlet Control Structure	□
Ditch Centerline	–→–→–→
Direction of Flow	∿→

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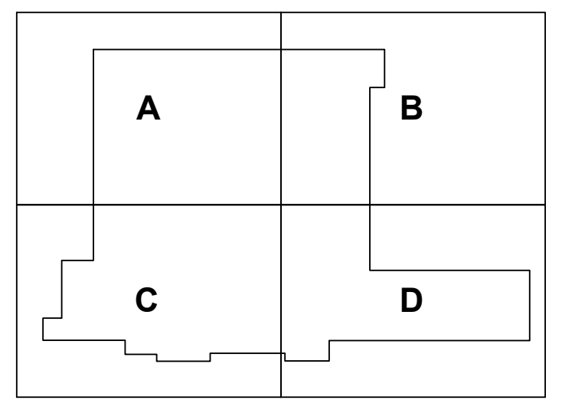
WE JOBNUMBER: 230641

KEYPLAN



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NOVANT HEALTH

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BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
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DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

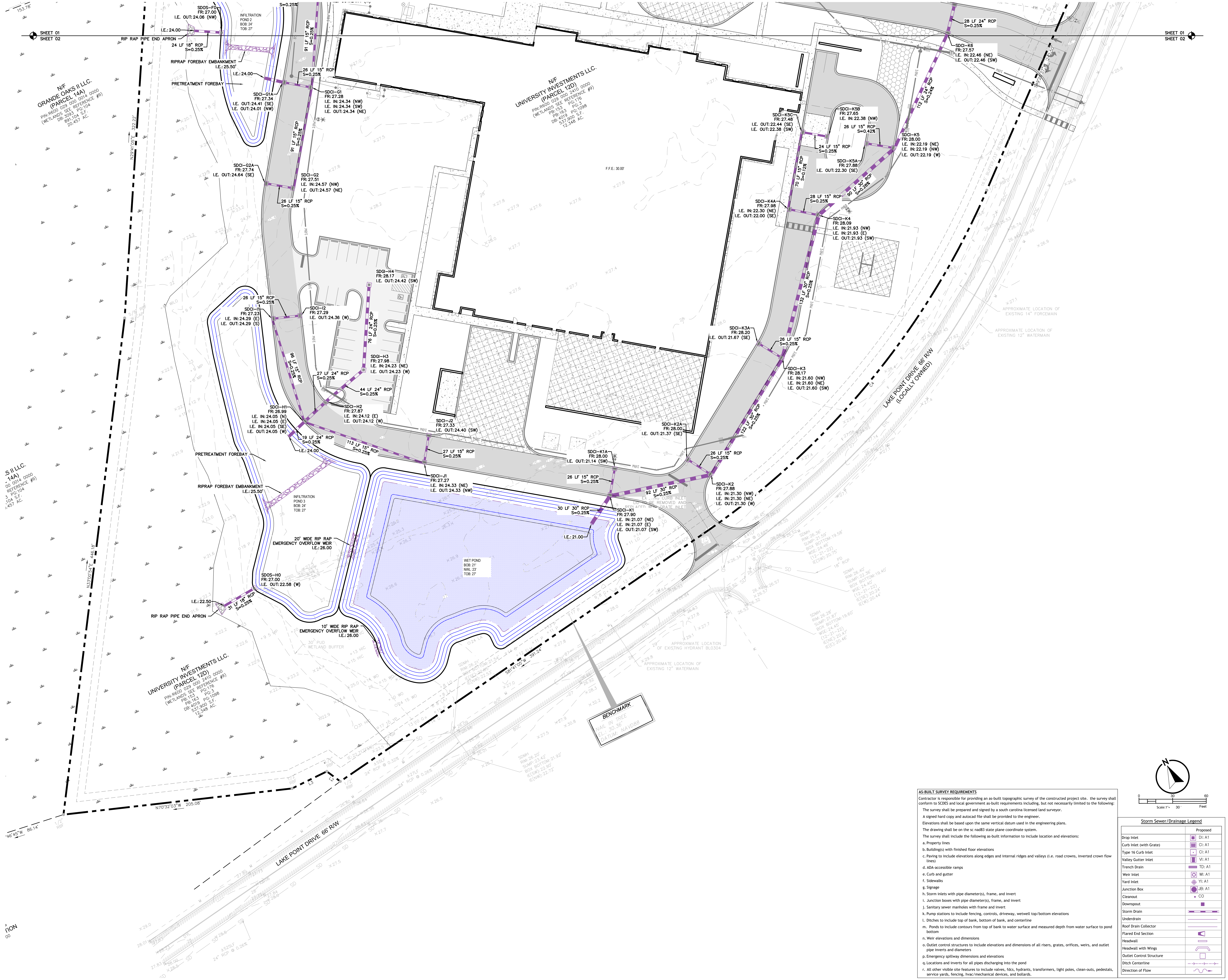
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
DRAINAGE PLAN

SHEET NUMBER
C-601

ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION


SHEET 01
SHEET 02
SDOS–F0
FR: 27.00
I.E. OUT: 24.06 (NW)
INFILTRATION POND 2
BOB: 24'
TOB: 27'
I.E.: 24.00
RIP RAP PIPE END APRON
24 LF 18" RCP S=0.25%
RIPRAP FOREBAY EMBANKMENT I.E.: 25.50'
I.E.: 24.00
PRETREATMENT FOREBAY
SDCI–G1A
FR: 27.34
I.E. OUT: 24.41 (SE)
I.E. OUT: 24.01 (NW)
26 LF 15" RCP S=0.25%
SDCI–G1
FR: 27.28
I.E. IN: 24.34 (NW)
I.E. IN: 24.34 (SW)
I.E. OUT: 24.34 (NE)
91 LF 15" RCP S=0.25%
91 LF 15" RCP S=0.25%
S=0.25%
SDCI–G2A
FR: 27.74
I.E. OUT: 24.64 (SE)
SDCI–G2
FR: 27.51
I.E. IN: 24.57 (NW)
I.E. OUT: 24.57 (NE)
26 LF 15" RCP S=0.25%
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN: R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB: 3093 PG: 104
891,104 S.F.
20.457 AC.
N29°41'05"E 322.22'
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN: R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB: 153 PG: 176
PB: 163 PG: 3
DB: 4019 PG: 1098
537,900 S.F.
12.348 AC.
F.F.E.: 30.00'
28 LF 24" RCP S=0.25%
SDCI–K6
FR: 27.57
I.E. IN: 22.46 (NE)
I.E. OUT: 22.46 (SW)
112 LF 24" RCP S=0.24%
SDCI–K5C
FR: 27.48
I.E. OUT: 22.44 (SE)
I.E. OUT: 22.38 (SW)
SDCI–K5B
FR: 27.65
I.E. IN: 22.38 (NW)
26 LF 15" RCP S=0.42%
24 LF 15" RCP S=0.25%
SDCI–K5
FR: 28.00
I.E. IN: 22.19 (NE)
I.E. IN: 22.19 (NW)
I.E. OUT: 22.19 (W)
SDCI–K5A
FR: 27.88
I.E. OUT: 22.30 (SE)
70 LF 15" RCP S=0.12%
90 LF 30" RCP S=0.28%
28 LF 15" RCP S=0.25%
SDCI–K4A
FR: 27.98
I.E. IN: 22.30 (NE)
I.E. OUT: 22.00 (SE)
SDCI–K4
FR: 28.09
I.E. IN: 21.93 (NW)
I.E. IN: 21.93 (E)
I.E. OUT: 21.93 (SW)
132 LF 30" RCP S=0.25%
16.5' BUFFER/33' SETBACK
1/2" RBFD
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
SDGI–H4
FR: 28.17
I.E. OUT: 24.42 (SW)
26 LF 15" RCP S=0.25%
SDCI–I1
FR: 27.23
I.E. IN: 24.29 (E)
I.E. OUT: 24.29 (S)
SDCI–I2
FR: 27.29
I.E. OUT: 24.36 (W)
76 LF 24" RCP S=0.25%
96 LF 15" RCP S=0.25%
SDGI–H3
FR: 27.98
I.E. IN: 24.23 (NE)
I.E. OUT: 24.23 (W)
27 LF 24" RCP S=0.25%
44 LF 24" RCP S=0.25%
SDCI–H1
FR: 26.99
I.E. IN: 24.05 (N)
I.E. IN: 24.05 (E)
I.E. IN: 24.05 (SE)
I.E. OUT: 24.05 (W)
SDCI–H2
FR: 27.87
I.E. IN: 24.12 (E)
I.E. OUT: 24.12 (W)
19 LF 24" RCP S=0.25%
I.E.: 24.00
113 LF 15" RCP S=0.25%
SDCI–J2
FR: 27.33
I.E. OUT: 24.40 (SW)
27 LF 15" RCP S=0.25%
SDCI–J1
FR: 27.27
I.E. IN: 24.33 (NE)
I.E. OUT: 24.33 (NW)
PRETREATMENT FOREBAY
RIPRAP FOREBAY EMBANKMENT I.E.: 25.50'
INFILTRATION POND 3
BOB: 24'
TOB: 27'
SDCI–K3A
FR: 28.20
I.E. OUT: 21.67 (SE)
26 LF 15" RCP S=0.25%
SDCI–K3
FR: 28.17
I.E. IN: 21.60 (NW)
I.E. IN: 21.60 (NE)
I.E. OUT: 21.60 (SW)
122 LF 30" RCP S=0.25%
SDCI–K2A
FR: 28.00
I.E. OUT: 21.37 (SE)
SDCI–K1A
FR: 28.00
I.E. OUT: 21.14 (SW)
26 LF 15" RCP S=0.25%
26 LF 15" RCP S=0.25%
92 LF 30" RCP S=0.25%
EXISTING CURB INLET LID TO BE REMOVED AND REPLACED WITH GRATE INLET
SDCI–K2
FR: 27.88
I.E. IN: 21.30 (NW)
I.E. IN: 21.30 (NE)
I.E. OUT: 21.30 (W)
30 LF 30" RCP S=0.25%
SDCI–K1
FR: 27.90
I.E. IN: 21.07 (NE)
I.E. IN: 21.07 (E)
I.E. OUT: 21.07 (SW)
I.E.: 21.00
LAKE POINT DRIVE 66' R/W (LOCALLY OWNED)
20' WIDE RIP RAP EMERGENCY OVERFLOW WEIR I.E.: 26.00
WET POND
BOB: 21'
NWL: 23'
TOB: 27'
SDOS–H0
FR: 27.00
I.E. OUT: 22.58 (W)
I.E.: 22.50
31 LF 18" RCP S=0.25%
RIP RAP PIPE END APRON
10' WIDE RIP RAP EMERGENCY OVERFLOW WEIR I.E.: 26.00
30' PUD WETLAND BUFFER
N33°00'54"E 446.18'
S81°41'05"W 391.24'
SDMH
RIM: 26.21'
BOX BOTTOM: 21.54'
IE(SE): 22.65'
IE(NW): 22.53'
SDMH
RIM: 26.36'
SUMP: 21.59'
BOX BOTTOM: 19.58'
WSE: 24.46'
(12-21-22)
IE(SW): 20.75'
SDMH
RIM: 26.20'
SUMP: 23.42'
BOX BOTTOM: 21.92'
IE(SW): 22.90'
IE(NW): 22.72'
APPROXIMATE LOCATION OF EXISTING HYDRANT BLG304
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
BENCHMARK
NAIL IN TREE
EL.: 30.36'
DATUM: NAVD88
24" RCP @ 0.32%
24" RCP @ 0.26%
N70°32'03"W 205.08'
L2
L3
1/2" RBF
LAKE POINT DRIVE 66' R/W
0
30
60
Scale:1"= 30 ' Feet

AS-BUILT SURVEY REQUIREMENTS

Contractor is responsible for providing an as-built topographic survey of the constructed project site. the survey shall conform to SCDES and local government as-built requirements including, but not necessarily limited to the following:

The survey shall be prepared and signed by a south carolina licensed land surveyor.

A signed hard copy and autocad file shall be provided to the engineer.

Elevations shall be based upon the same vertical datum used in the engineering plans.

The drawing shall be on the sc nad83 state plane coordinate system.

The survey shall include the following as-built information to include location and elevations:

a. Property lines
b. Building(s) with finished floor elevations
c. Paving to include elevations along edges and internal ridges and valleys (i.e. road crowns, inverted crown flow lines)
d. ADA-accessible ramps
e. Curb and gutter
f. Sidewalks
g. Signage
h. Storm inlets with pipe diameter(s), frame, and invert
i. Junction boxes with pipe diameter(s), frame, and invert
j. Sanitary sewer manholes with frame and invert
k. Pump stations to include fencing, controls, driveway, wetwell top/bottom elevations
l. Ditches to include top of bank, bottom of bank, and centerline
m. Ponds to include contours from top of bank to water surface and measured depth from water surface to pond bottom
n. Weir elevations and dimensions
o. Outlet control structures to include elevations and dimensions of all risers, grates, orifices, weirs, and outlet pipe inverts and diameters
p. Emergency spillway dimensions and elevations
q. Locations and inverts for all pipes discharging into the pond
r. All other visible site features to include valves, fdcs, hydrants, transformers, light poles, clean-outs, pedestals, service yards, fencing, hvac/mechanical devices, and bollards.

Storm Sewer/Drainage Legend

	Proposed
Drop Inlet	▣ DI: A1
Curb Inlet (with Grate)	▦ CI: A1
Type 16 Curb Inlet	☐ CI: A1
Valley Gutter Inlet	▥ VI: A1
Trench Drain	▥ TD: A1
Weir Inlet	◎ WI: A1
Yard Inlet	⊕ YI: A1
Junction Box	● JB: A1
Cleanout	• CO
Downspout	■
Storm Drain	▬ ▬ ▬
Underdrain	—
Roof Drain Collector	—
Flared End Section	◁
Headwall	▭
Headwall with Wings	⏢
Outlet Control Structure	☐
Ditch Centerline	–→––→––→–
Direction of Flow	∿→

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843-837-5250

LANDSCAPE
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23 PROMENADE STREET
SUITE 201
BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

MEP/FP/LV
DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141

No. 22816
01/23/26
PAUL R. MOORE

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No. C00152

Ward Edwards ENGINEERING
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P.O. Box 381, Bluffton,
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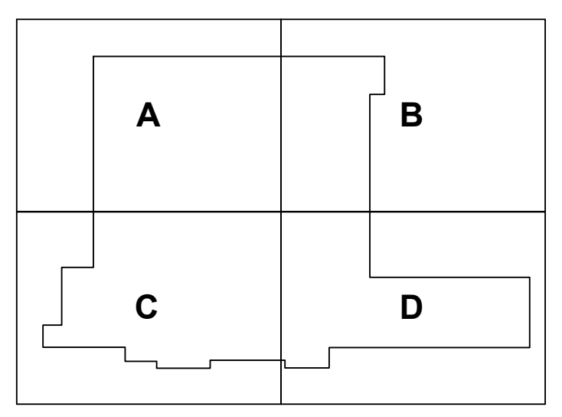
WE JOBNUMBER: 230641

KEYPLAN



REVISION HISTORY

REVISION DESCRIPTION DATE

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

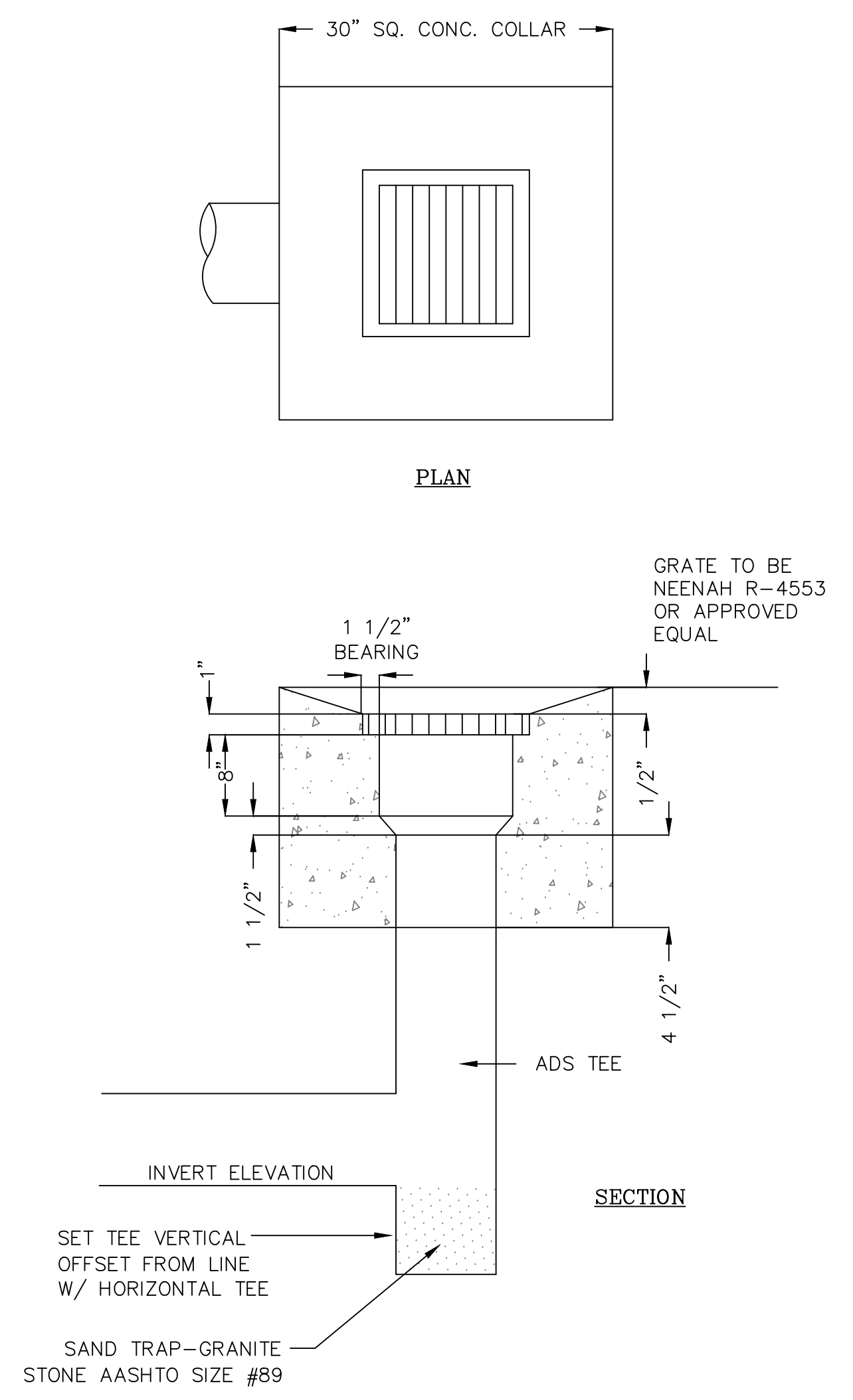
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
DRAINAGE PLAN

SHEET NUMBER
C-602

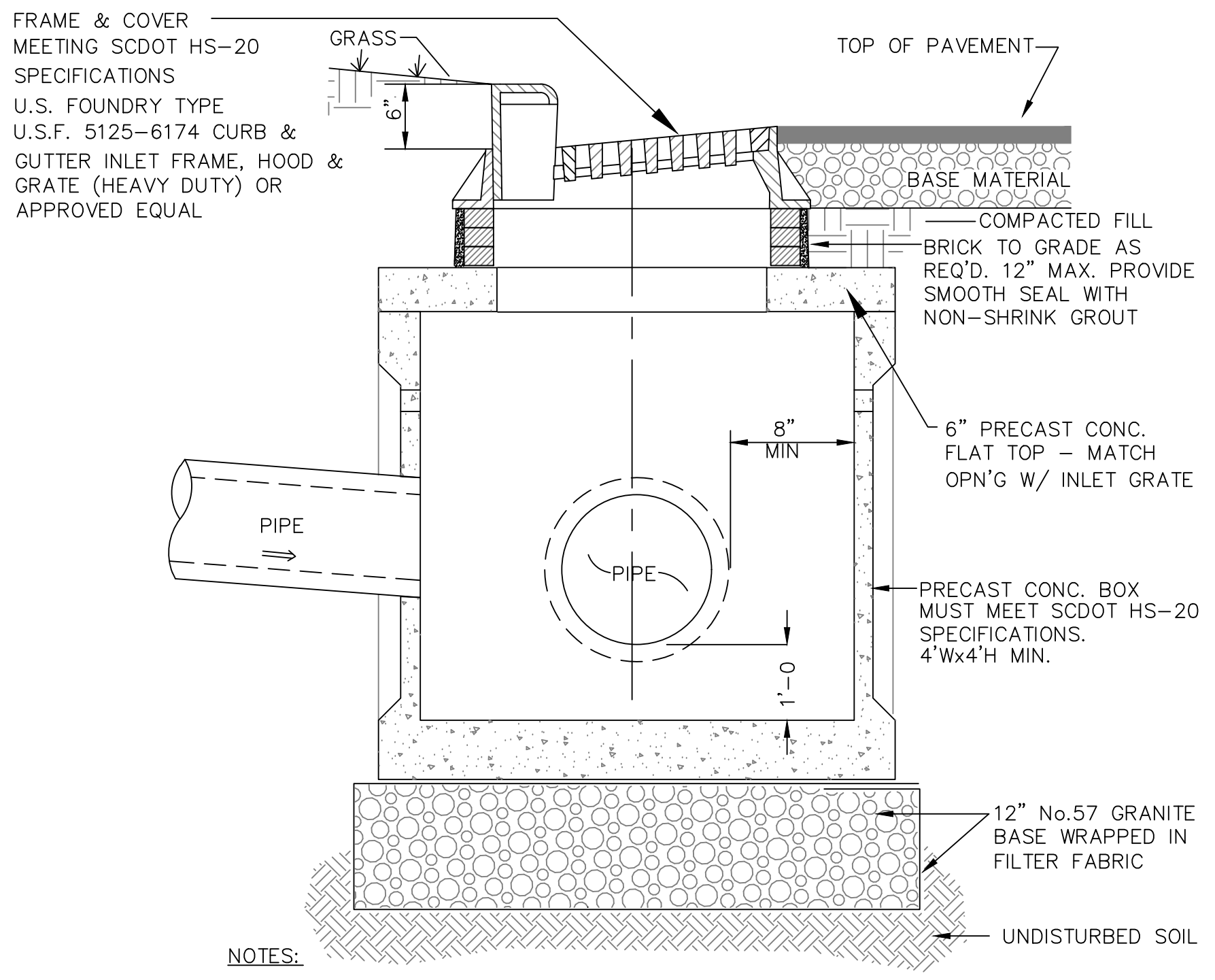
ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION


30" SQ. CONC. COLLAR
PLAN
GRATE TO BE NEENAH R-4553 OR APPROVED EQUAL
1 1/2" BEARING
1"
8"
1/2"
1 1/2"
4 1/2"
ADS TEE
INVERT ELEVATION
SET TEE VERTICAL OFFSET FROM LINE W/ HORIZONTAL TEE
SAND TRAP-GRANITE STONE AASHTO SIZE #89
SECTION

YARD INLET

DETAIL 02630-020


FRAME & COVER MEETING SCDOT HS-20 SPECIFICATIONS U.S. FOUNDRY TYPE U.S.F. 5125-6174 CURB & GUTTER INLET FRAME, HOOD & GRATE (HEAVY DUTY) OR APPROVED EQUAL
GRASS
6"
TOP OF PAVEMENT
BASE MATERIAL
COMPACTED FILL
BRICK TO GRADE AS REQ'D. 12" MAX. PROVIDE SMOOTH SEAL WITH NON-SHRINK GROUT
6" PRECAST CONC. FLAT TOP - MATCH OPN'G W/ INLET GRATE
8" MIN
PIPE
PIPE
PRECAST CONC. BOX MUST MEET SCDOT HS-20 SPECIFICATIONS. 4'Wx4'H MIN.
1'-0
12" No.57 GRANITE BASE WRAPPED IN FILTER FABRIC
UNDISTURBED SOIL

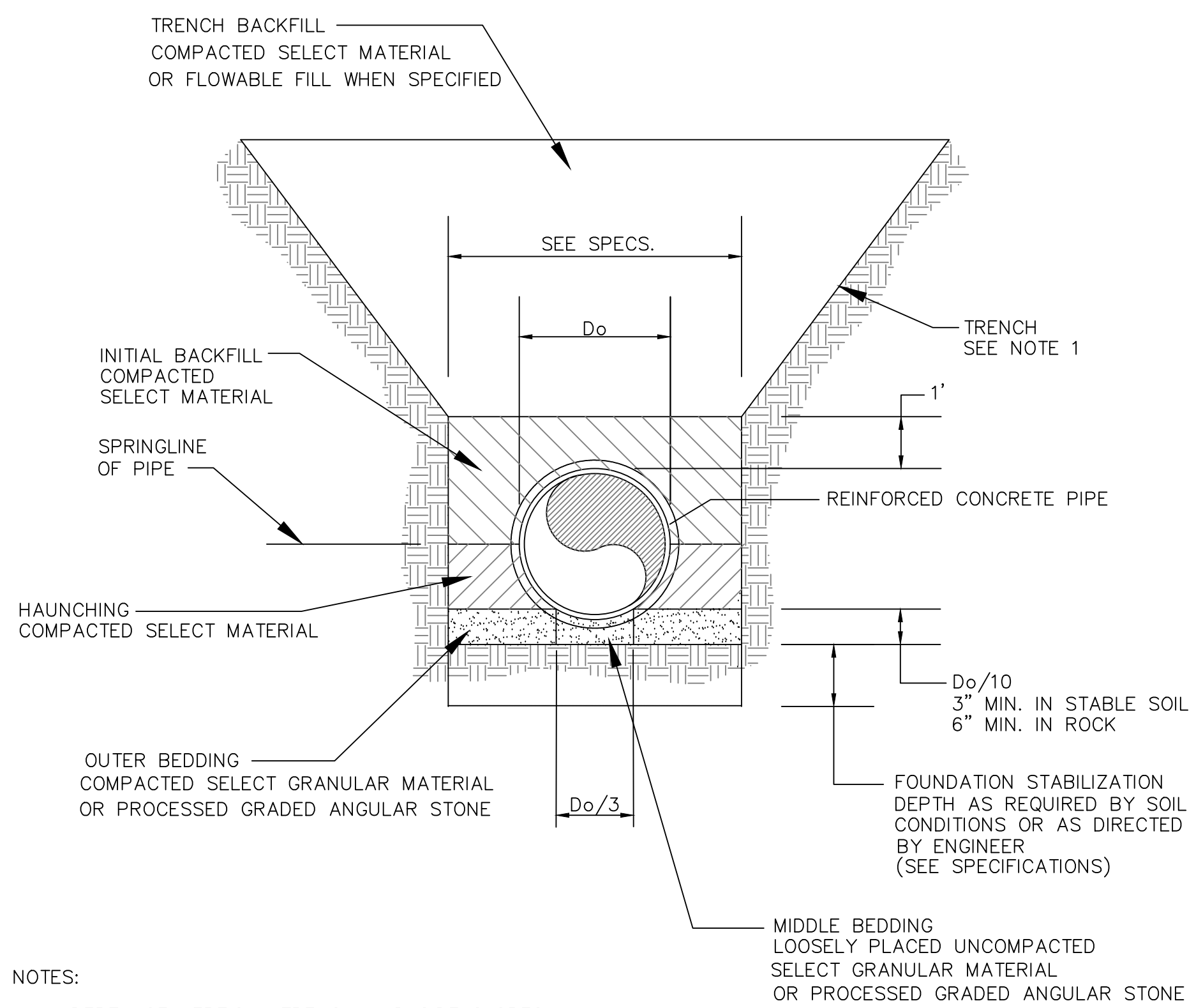
NOTES:

1. UNDERDRAIN PIPE TO ENTER JUNC. BOX AT A MINIMUM OF 0.5' ABOVE INVERT ELEVATION OF OUTGOING PIPE
2. INSURE POSITIVE DRAINAGE OF UNDERDRAIN

TYPICAL SECTION

CURB INLET WITH FRAME AND COVER

DETAIL 02630-028

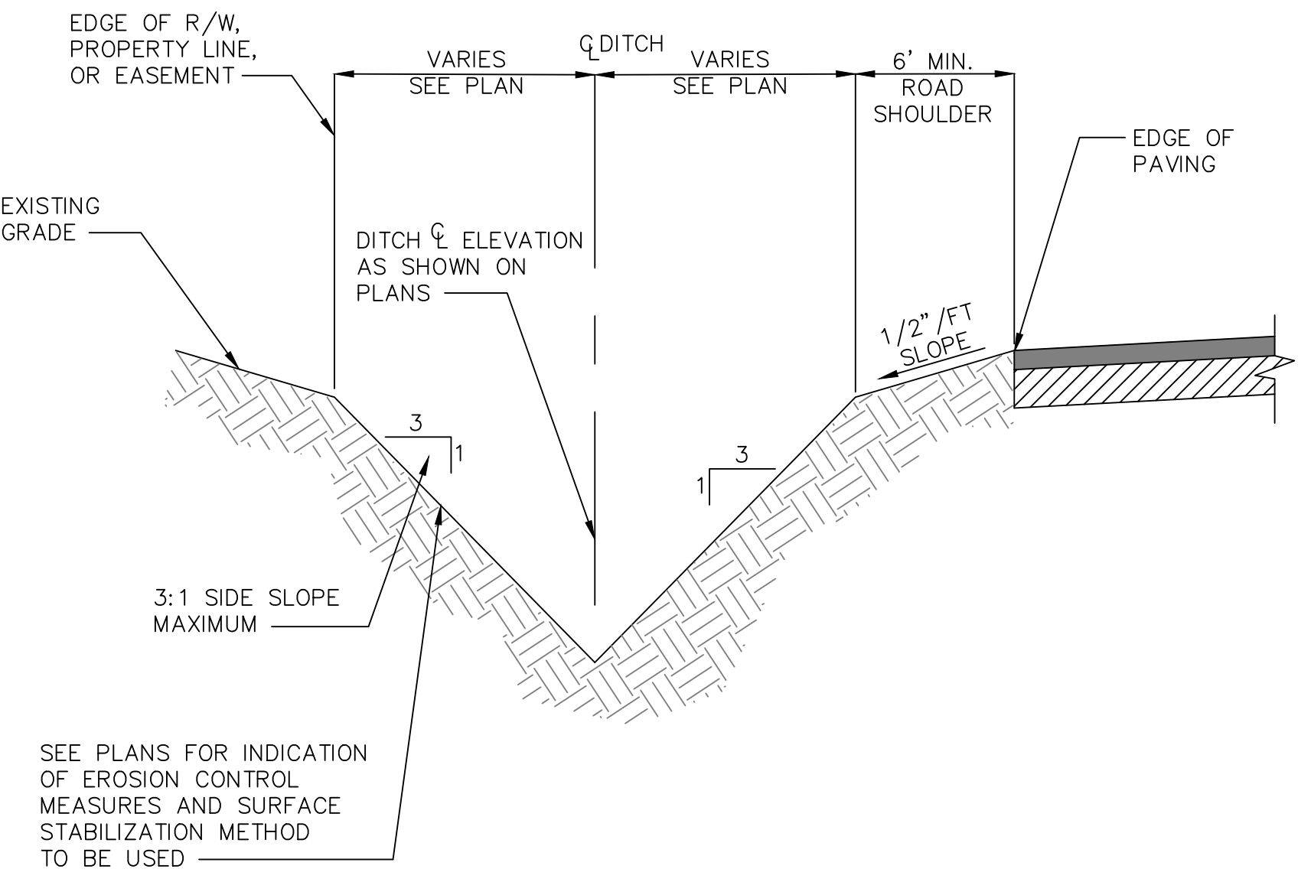

TRENCH BACKFILL COMPACTED SELECT MATERIAL OR FLOWABLE FILL WHEN SPECIFIED
SEE SPECS.
Do
TRENCH SEE NOTE 1
INITIAL BACKFILL COMPACTED SELECT MATERIAL
1'
SPRINGLINE OF PIPE
REINFORCED CONCRETE PIPE
HAUNCHING COMPACTED SELECT MATERIAL
Do/10 3" MIN. IN STABLE SOIL 6" MIN. IN ROCK
OUTER BEDDING COMPACTED SELECT GRANULAR MATERIAL OR PROCESSED GRADED ANGULAR STONE
Do/3
FOUNDATION STABILIZATION DEPTH AS REQUIRED BY SOIL CONDITIONS OR AS DIRECTED BY ENGINEER (SEE SPECIFICATIONS)
MIDDLE BEDDING LOOSELY PLACED UNCOMPACTED SELECT GRANULAR MATERIAL OR PROCESSED GRADED ANGULAR STONE

NOTES:

1: DEPTH OF VERTICAL TRENCH AND SIDE SLOPES OF TRENCH MAY VARY DEPENDING ON DEPTH OF EXCAVATION AND TRENCH PROTECTION SYSTEM USED. COMPLY WITH OSHA REGULATIONS (STANDARDS – 29 CFR) PART 1956 SUBPART P, EXCAVATIONS.

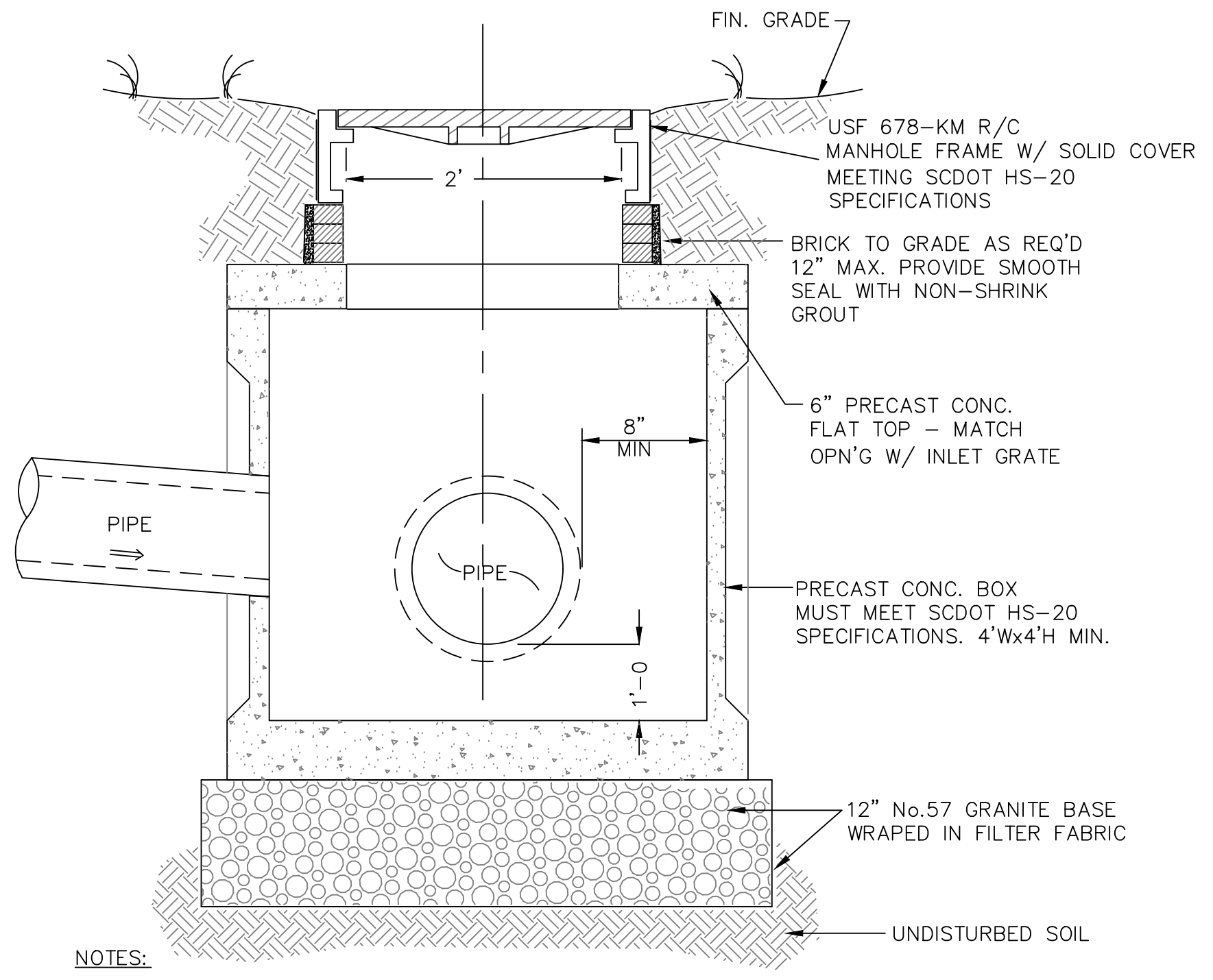
2. WHEN PROCESSED ANGULAR STONE IS USED FOR MIDDLE AND OUTER BEDDING, THE STONE SHALL BE COMPLETELY WRAPPED IN FILTER FABRIC TO PREVENT MIGRATION OF SURROUNDING SOILS.

EMBEDMENT DETAIL FOR REINFORCED CONCRETE PIPE


EDGE OF R/W, PROPERTY LINE, OR EASEMENT
VARIES SEE PLAN
℄ DITCH
VARIES SEE PLAN
6' MIN. ROAD SHOULDER
EDGE OF PAVING
EXISTING GRADE
DITCH ℄ ELEVATION AS SHOWN ON PLANS
1/2" /FT SLOPE
3
1
3
1
3:1 SIDE SLOPE MAXIMUM
SEE PLANS FOR INDICATION OF EROSION CONTROL MEASURES AND SURFACE STABILIZATION METHOD TO BE USED

TYPICAL V-SHAPED DITCH CROSS SECTION

DETAIL 02630-024


FIN. GRADE
USF 678-KM R/C MANHOLE FRAME W/ SOLID COVER MEETING SCDOT HS-20 SPECIFICATIONS
2'
BRICK TO GRADE AS REQ'D 12" MAX. PROVIDE SMOOTH SEAL WITH NON-SHRINK GROUT
6" PRECAST CONC. FLAT TOP - MATCH OPN'G W/ INLET GRATE
8" MIN
PIPE
PIPE
PRECAST CONC. BOX MUST MEET SCDOT HS-20 SPECIFICATIONS. 4'Wx4'H MIN.
1'-0
12" No.57 GRANITE BASE WRAPED IN FILTER FABRIC
UNDISTURBED SOIL

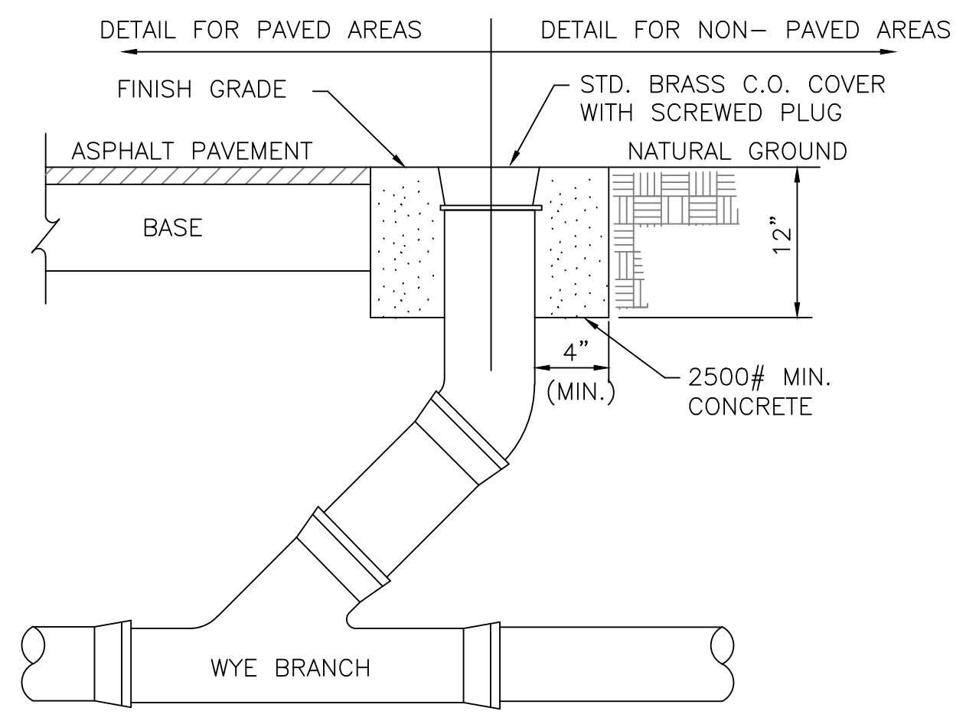
NOTES:

1. UNDERDRAIN PIPE TO ENTER JUNC. BOX AT A MINIMUM OF 0.5' ABOVE INVERT ELEVATION OF OUTGOING PIPE
2. INSURE POSITIVE DRAINAGE OF UNDERDRAIN

TYPICAL SECTION

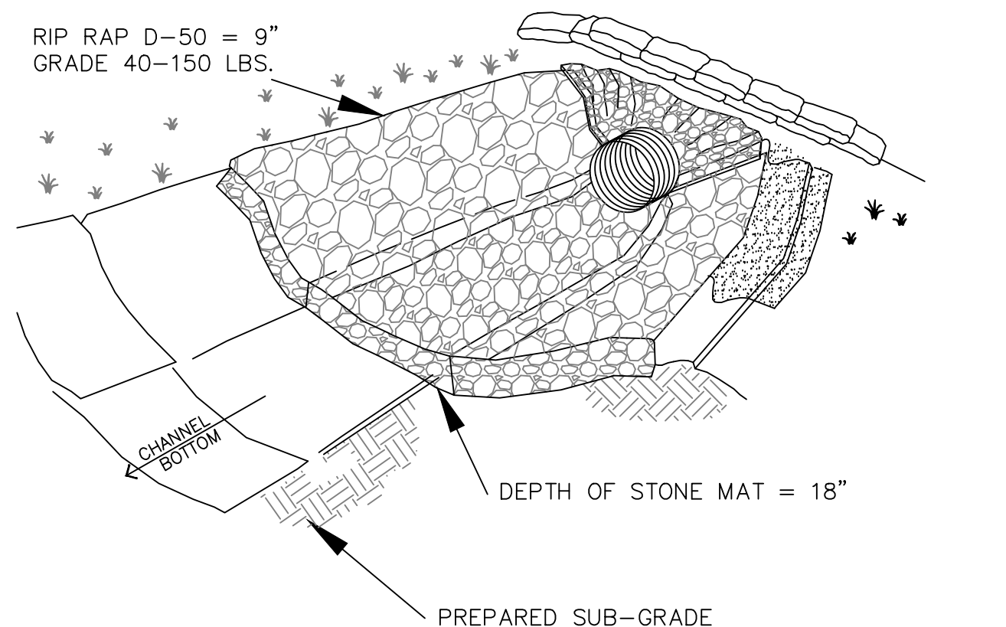
JUNCTION BOX WITH FRAME AND COVER

DETAIL 02630-030


DETAIL FOR PAVED AREAS
DETAIL FOR NON- PAVED AREAS
FINISH GRADE
STD. BRASS C.O. COVER WITH SCREWED PLUG
ASPHALT PAVEMENT
NATURAL GROUND
BASE
12"
4" (MIN.)
2500# MIN. CONCRETE
WYE BRANCH

NOTE: USE EXPANSION JOINT MAT'L AROUND PAD IN CONCRETE PAVED AREAS.

CLEANOUT DETAIL


RIP RAP D-50 = 9" GRADE 40-150 LBS.
CHANNEL BOTTOM
DEPTH OF STONE MAT = 18"
PREPARED SUB-GRADE

NOTES:

1. PLACE ALL RIP RAP ON 8 OUNCE NON-WOVEN FILTER CLOTH.
2. STAKING OF FILTER CLOTH PER MANUFACTURER'S SPECIFICATIONS.
3. SEE DRAINAGE SHEET FOR RIP-RAP DIMENSIONS

LOCATION	LENGTH (ft)	WIDTH (ft)
LAGOON PIPE INTERCONNECTION	12.00	14.00
BORROW PIT OUTFALL	20.00	23.00
INFILTRATION BASIN OUTFALL	20.00	23.00
STORAGE BASIN 2 OUTFALL	20.00	23.00

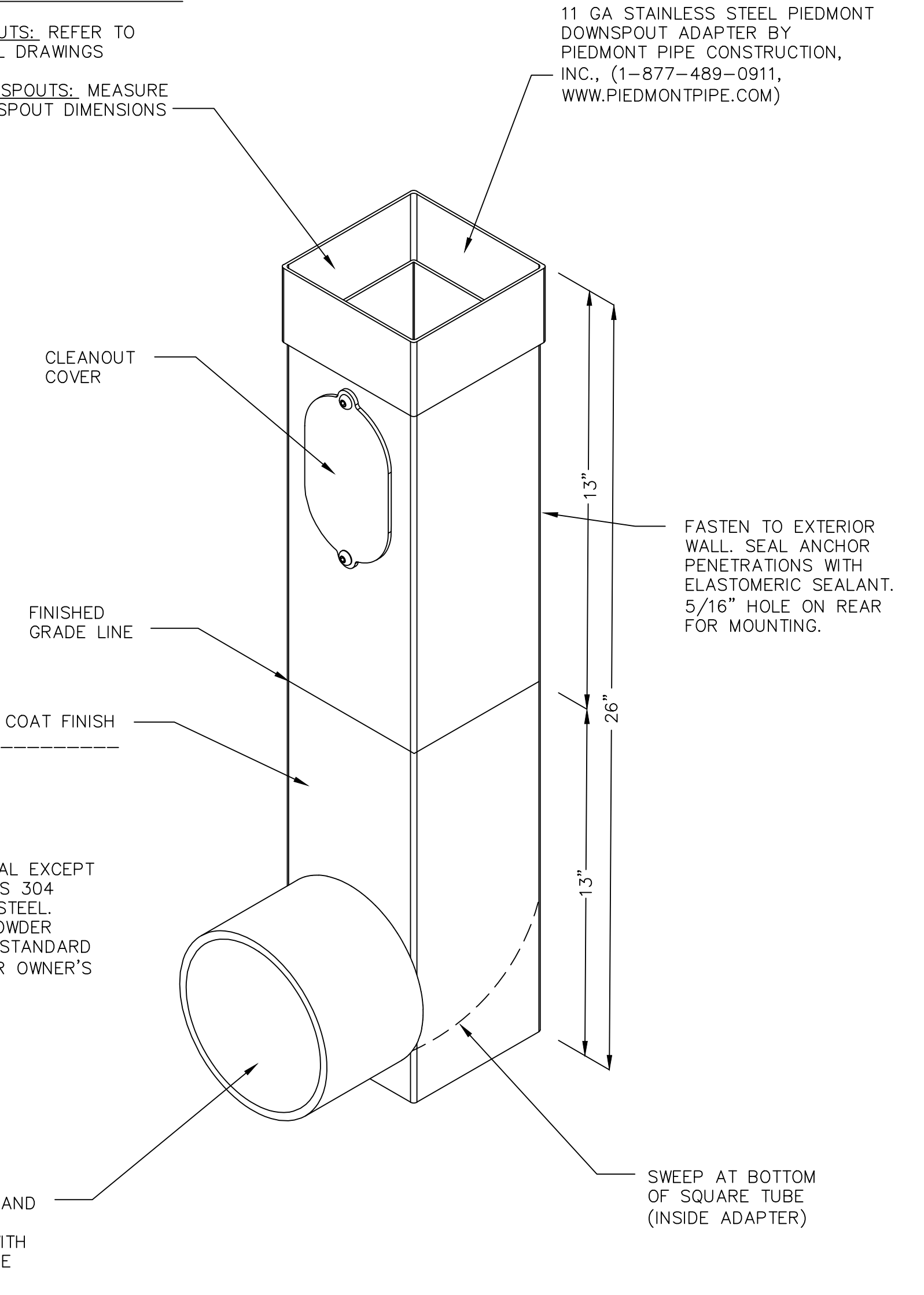
RIP RAP OUTLET STABILIZATION DETAIL

DETAIL #02370-009

DOWNSPOUT RECTANGULAR SIZING:

NEW DOWNSPOUTS: REFER TO ARCHITECTURAL DRAWINGS

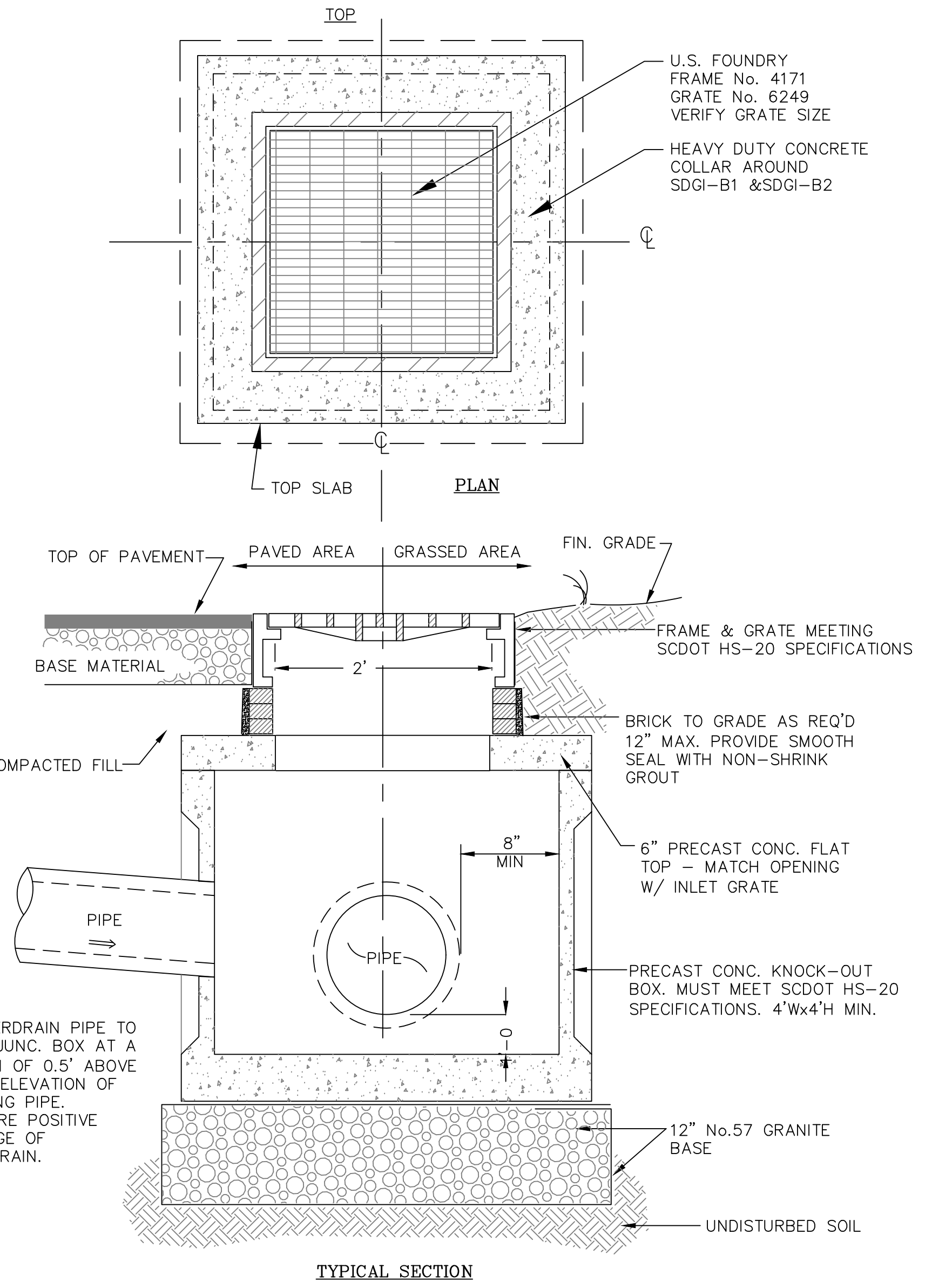
EXISTING DOWNSPOUTS: MEASURE EXISTNG DOWNSPOUT DIMENSIONS


11 GA STAINLESS STEEL PIEDMONT DOWNSPOUT ADAPTER BY PIEDMONT PIPE CONSTRUCTION, INC., (1-877-489-0911, WWW.PIEDMONTPIPE.COM)
CLEANOUT COVER
13"
26"
13"
FASTEN TO EXTERIOR WALL. SEAL ANCHOR PENETRATIONS WITH ELASTOMERIC SEALANT. 5/16" HOLE ON REAR FOR MOUNTING.
FINISHED GRADE LINE
POWDER COAT FINISH COLOR: _________
OUTLET BOOT ADAPTER TYPE AND SIZE TO BE COORDINATED WITH STORM DRAINAGE PLAN.
SWEEP AT BOTTOM OF SQUARE TUBE (INSIDE ADAPTER)

NOTES:

1. ALL MATERIAL EXCEPT PVC BOOT IS 304 STAINLESS STEEL.
2. STEEL IS POWDER COATED IN STANDARD COLORS PER OWNER'S CHOICE.

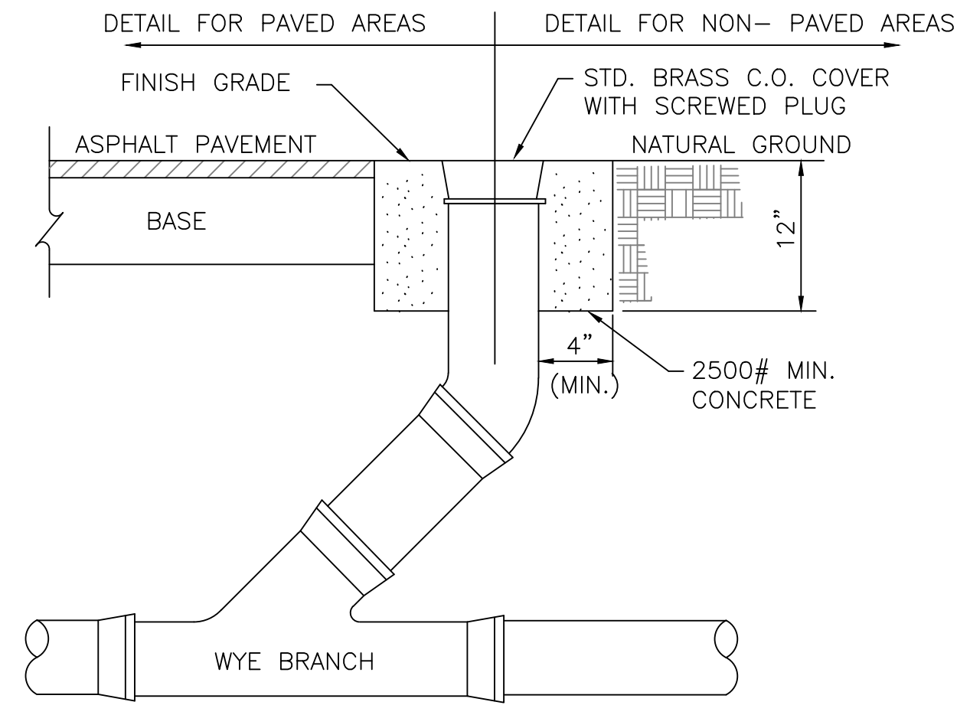
GUTTER DOWNSPOUT ADAPTER


TOP
U.S. FOUNDRY FRAME No. 4171 GRATE No. 6249 VERIFY GRATE SIZE
HEAVY DUTY CONCRETE COLLAR AROUND SDGI-B1 &SDGI-B2
℄
℄
TOP SLAB
PLAN
TOP OF PAVEMENT
PAVED AREA
GRASSED AREA
FIN. GRADE
FRAME & GRATE MEETING SCDOT HS-20 SPECIFICATIONS
BASE MATERIAL
2'
BRICK TO GRADE AS REQ'D 12" MAX. PROVIDE SMOOTH SEAL WITH NON-SHRINK GROUT
COMPACTED FILL
6" PRECAST CONC. FLAT TOP - MATCH OPENING W/ INLET GRATE
8" MIN
PIPE
PIPE
PRECAST CONC. KNOCK-OUT BOX. MUST MEET SCDOT HS-20 SPECIFICATIONS. 4'Wx4'H MIN.
0
12" No.57 GRANITE BASE
UNDISTURBED SOIL
TYPICAL SECTION

NOTES:
1. UNDERDRAIN PIPE TO ENTER JUNC. BOX AT A MINIMUM OF 0.5' ABOVE INVERT ELEVATION OF OUTGOING PIPE.
2. INSURE POSITIVE DRAINAGE OF UNDERDRAIN.

GRATE INLET

DETAIL 02630-027


DETAIL FOR PAVED AREAS
DETAIL FOR NON- PAVED AREAS
FINISH GRADE
STD. BRASS C.O. COVER WITH SCREWED PLUG
ASPHALT PAVEMENT
NATURAL GROUND
BASE
12"
4" (MIN.)
2500# MIN. CONCRETE
WYE BRANCH

NOTE: USE EXPANSION JOINT MAT'L AROUND PAD IN CONCRETE PAVED AREAS.

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STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

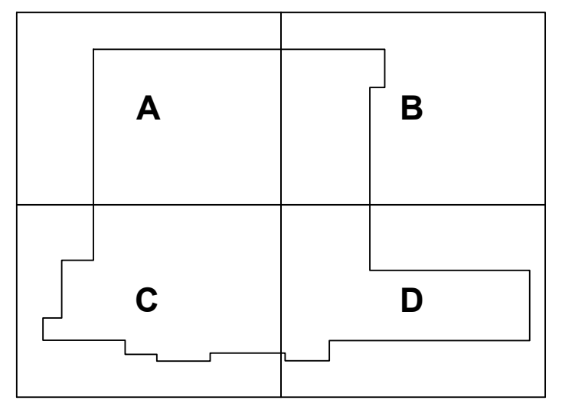
MEP/FP/LV
DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141

No. 22816
01/23/26
PAUL R. MOORE

WARD EDWARDS, INC.
No. C00152

Ward Edwards ENGINEERING
119C Palmetto Way
P.O. Box 381, Bluffton,
South Carolina 29910
(843) 837-5250
www.WardEdwards.com
WE JOBNUMBER: 230641

KEYPLAN



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REVISION	DESCRIPTION	DATE

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER
400501008

ABBREVIATION
BLUFFTON HOSPITAL

DRAWN BY
GFONSECA

CHECKED BY
LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
DRAINAGE DETAILS

SHEET NUMBER
C-603

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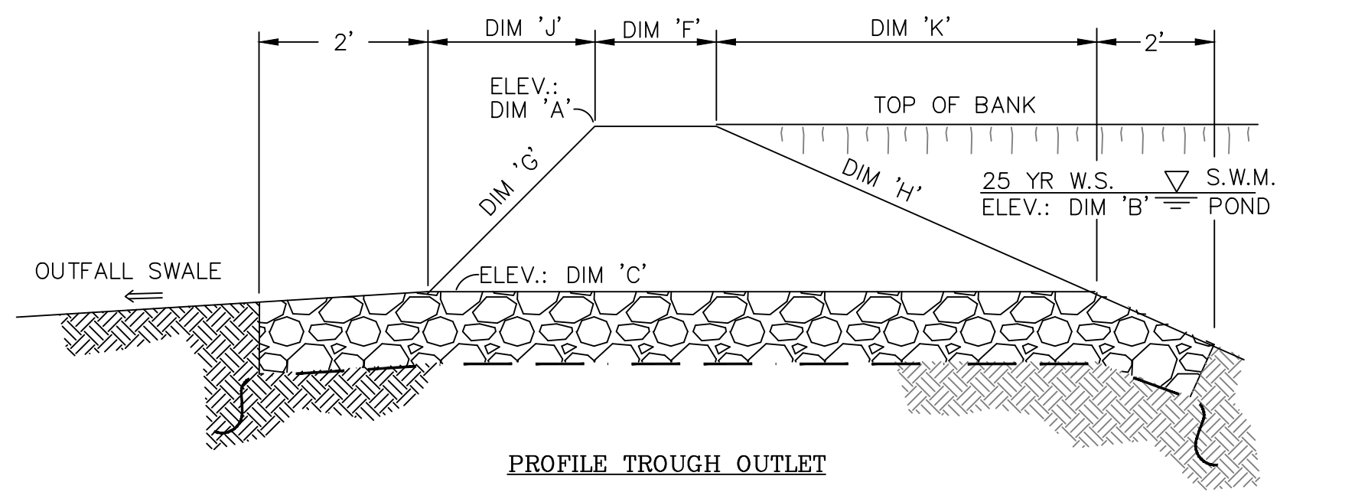
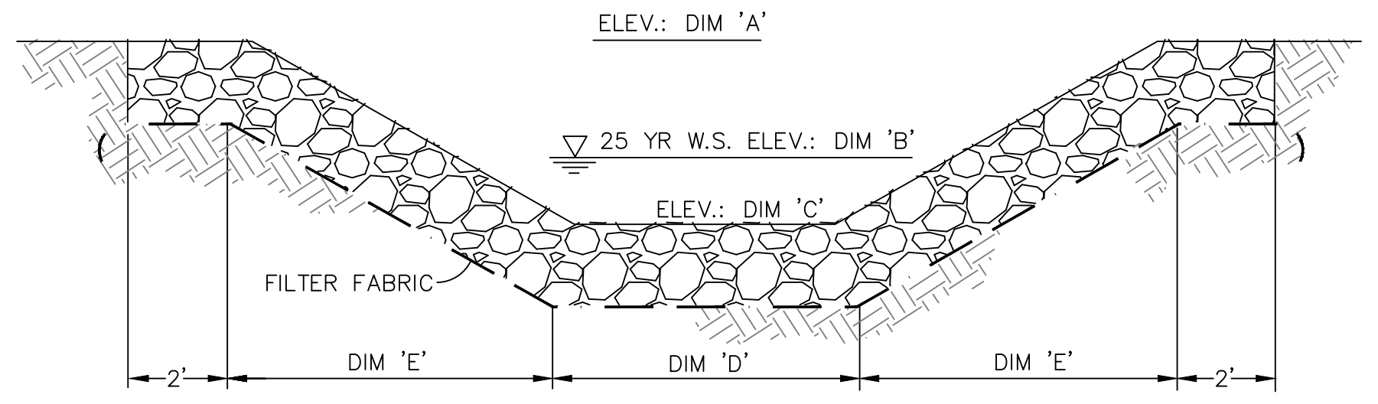

2'
DIM 'J'
DIM 'F'
DIM 'K'
2'
ELEV.: DIM 'A'
TOP OF BANK
DIM 'G'
DIM 'H'
25 YR W.S. ELEV.: DIM 'B'
S.W.M. POND
OUTFALL SWALE
ELEV.: DIM 'C'

PROFILE TROUGH OUTLET

DIMENSION DATA

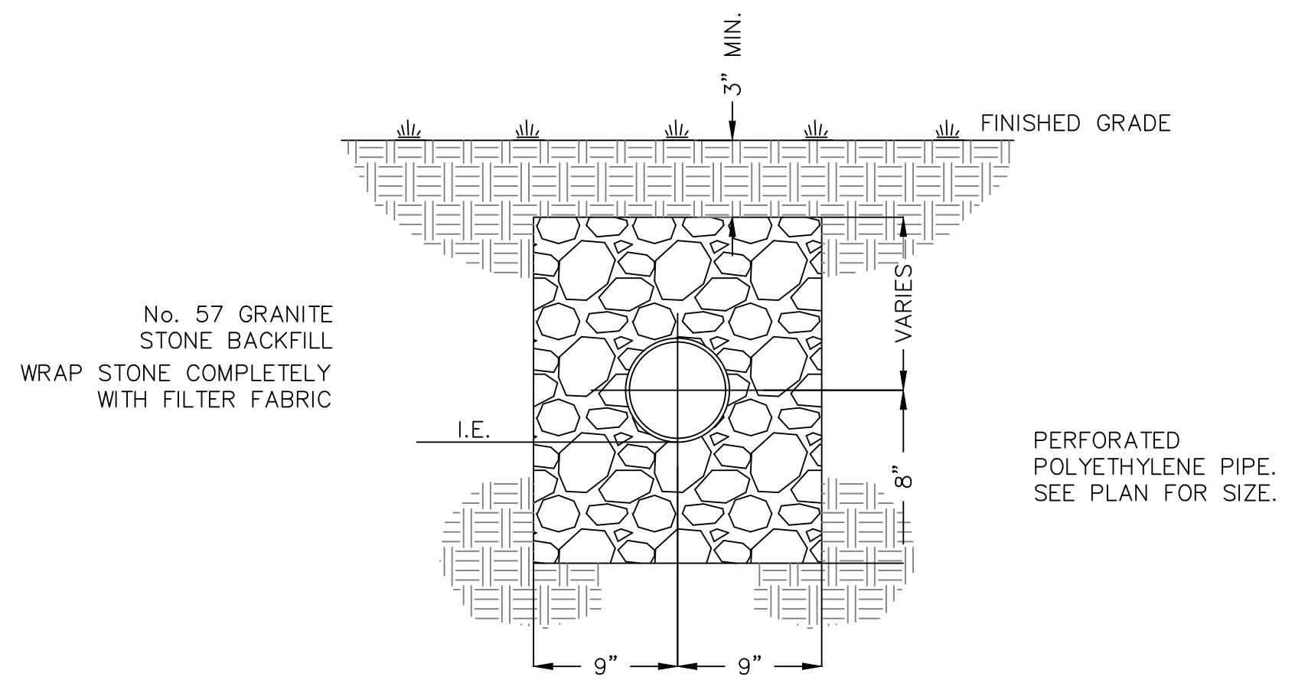
DIM 'A'	27.00'	TOP OF BANK
DIM 'B'	25.70'	25 YR. PEAK
DIM 'C'	26.00'	WEIR ELEV.
DIM 'D'	10.00'	WIDTH
DIM 'E'	3	SLOPE RUN
DIM 'F'	10.00'	TOP WIDTH
DIM 'G'	3:1	SLOPE OUT
DIM 'H'	3:1	SLOPE IN
DIM 'J'	3	RUN OUT
DIM 'K'	3	RUN IN


ELEV.: DIM 'A'
25 YR W.S. ELEV.: DIM 'B'
ELEV.: DIM 'C'
FILTER FABRIC
2'
DIM 'E'
DIM 'D'
DIM 'E'
2'

CROSS SECTION

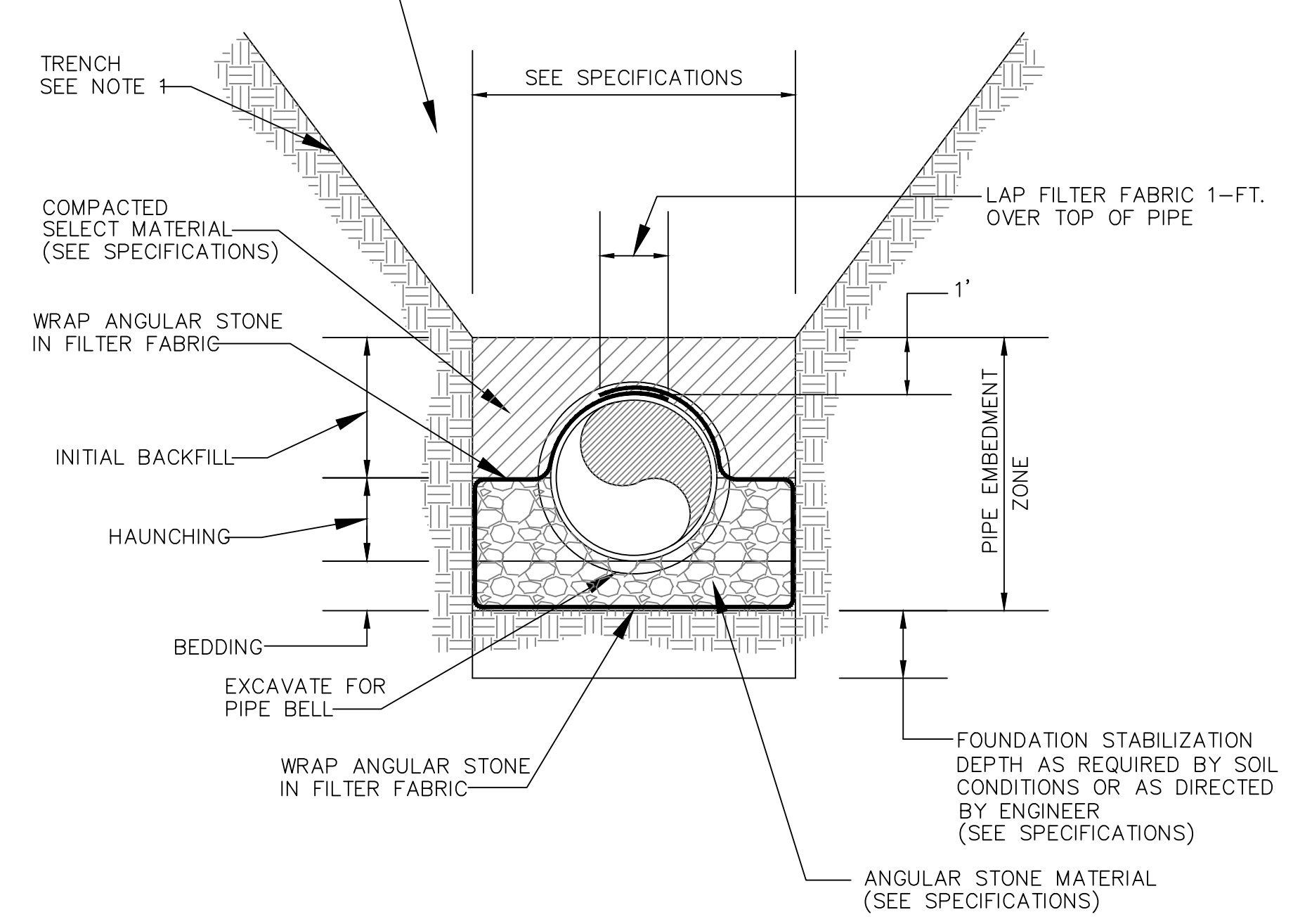
EMERGENCY SPILLWAY - WET POND

DETAIL 02630-013


3" MIN.
FINISHED GRADE
No. 57 GRANITE STONE BACKFILL
WRAP STONE COMPLETELY WITH FILTER FABRIC
I.E.
VARIES
8"
PERFORATED POLYETHYLENE PIPE. SEE PLAN FOR SIZE.
9"
9"

SUBGRADE DRAIN

DETAIL 02630-014

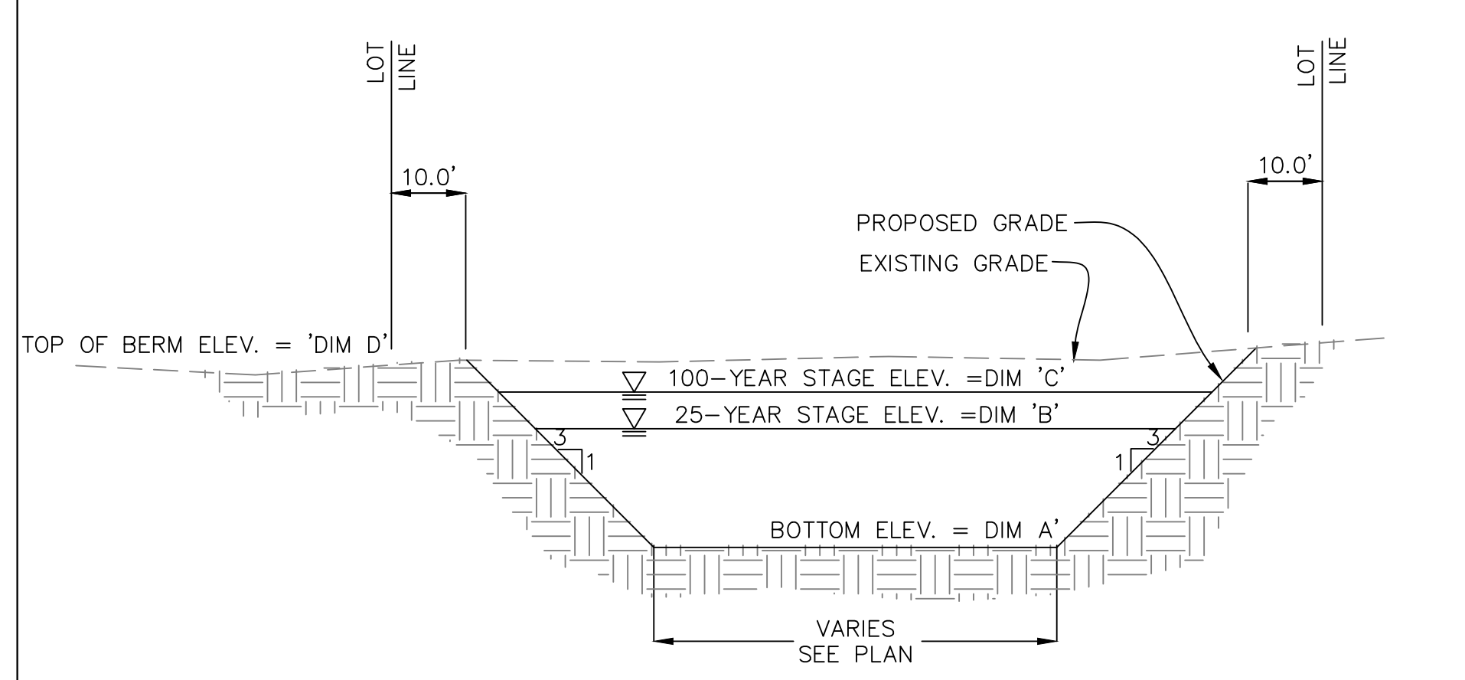

TRENCH BACKFILL
COMPACTED SELECT MATERIAL OR FLOWABLE FILL WHEN SPECIFIED (SEE SPEC. SECTION 02324)
TRENCH SEE NOTE 1
SEE SPECIFICATIONS
COMPACTED SELECT MATERIAL (SEE SPECIFICATIONS)
LAP FILTER FABRIC 1-FT. OVER TOP OF PIPE
1'
WRAP ANGULAR STONE IN FILTER FABRIC
INITIAL BACKFILL
PIPE EMBEDMENT ZONE
HAUNCHING
BEDDING
EXCAVATE FOR PIPE BELL
WRAP ANGULAR STONE IN FILTER FABRIC
FOUNDATION STABILIZATION DEPTH AS REQUIRED BY SOIL CONDITIONS OR AS DIRECTED BY ENGINEER (SEE SPECIFICATIONS)
ANGULAR STONE MATERIAL (SEE SPECIFICATIONS)

NOTE 1: DEPTH OF VERTICAL TRENCH AND SIDE SLOPES OF TRENCH MAY VARY DEPENDING ON DEPTH OF EXCAVATION AND TRENCH PROTECTION SYSTEM USED. COMPLY WITH OSHA REGULATIONS (STANDARDS – 29 CFR) PART 1956 SUBPART P, EXCAVATIONS.

EMBEDMENT DETAIL FOR THERMOPLASTIC GRAVITY SEWERS AND DRAINS

DETAIL 02537 - XX

SCALE: NONE


LOT LINE
LOT LINE
10.0'
10.0'
PROPOSED GRADE
EXISTING GRADE
TOP OF BERM ELEV. = 'DIM D'
100-YEAR STAGE ELEV. =DIM 'C'
25-YEAR STAGE ELEV. =DIM 'B'
3
1
3
1
BOTTOM ELEV. = DIM A'
VARIES SEE PLAN

EROSION & SEDIMENT CONTROL NOTE:
1. SEE PLANS FOR INDICATION OF EROSION CONTROL MEASURES AND SURFACE STABILIZATION METHOD TO BE USED

DIMENSION TABLE

DIM.	WET POND
A	21.00'
B	25.70'
C	26.25'
D	27.00'

WET DETENTION BASIN CROSS SECTION

DETAIL 02630-034

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912-234-0696

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843-837-5250

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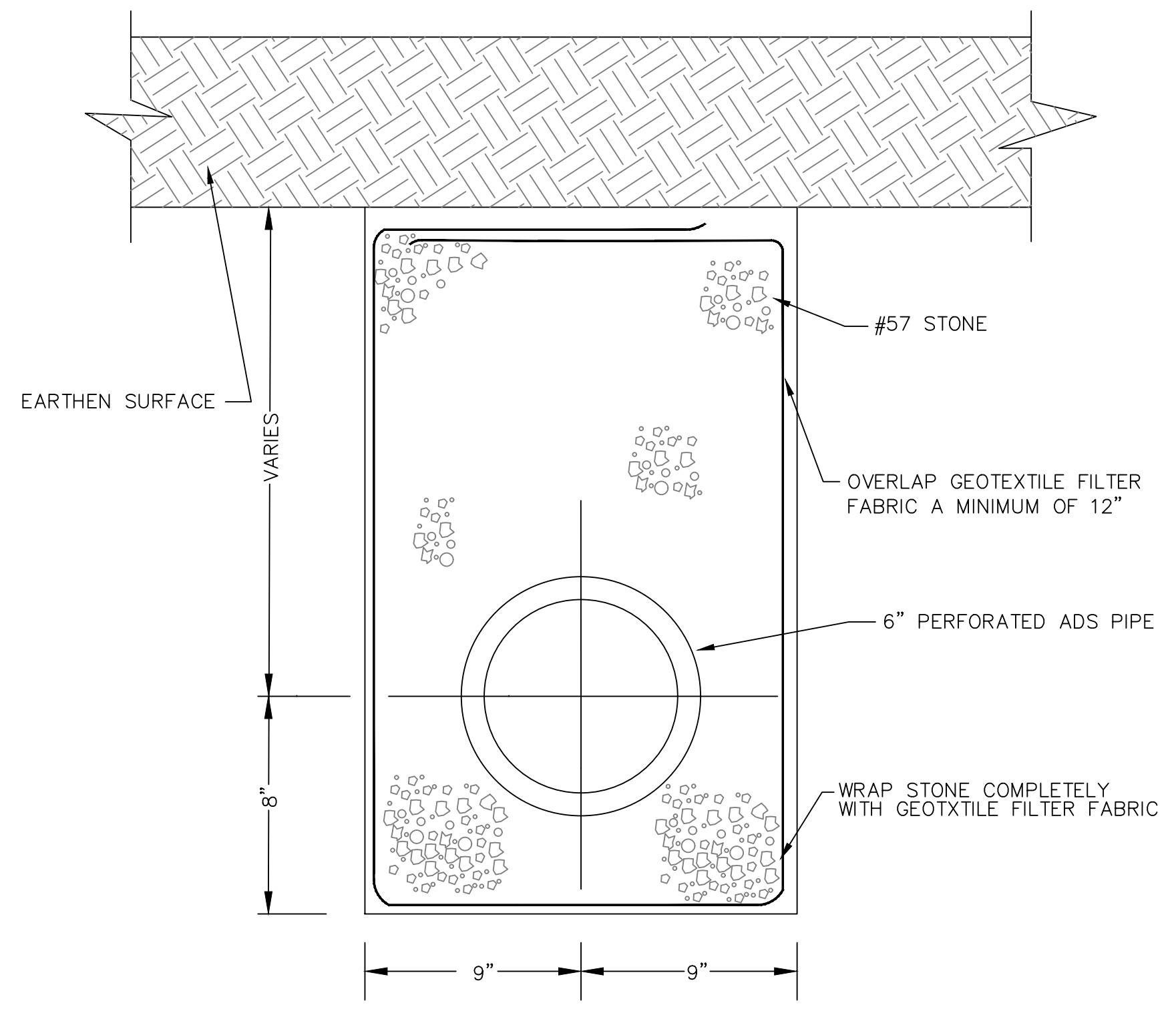
23 PROMENADE STREET
SUITE 201
BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

MEP/FP/LV
DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141

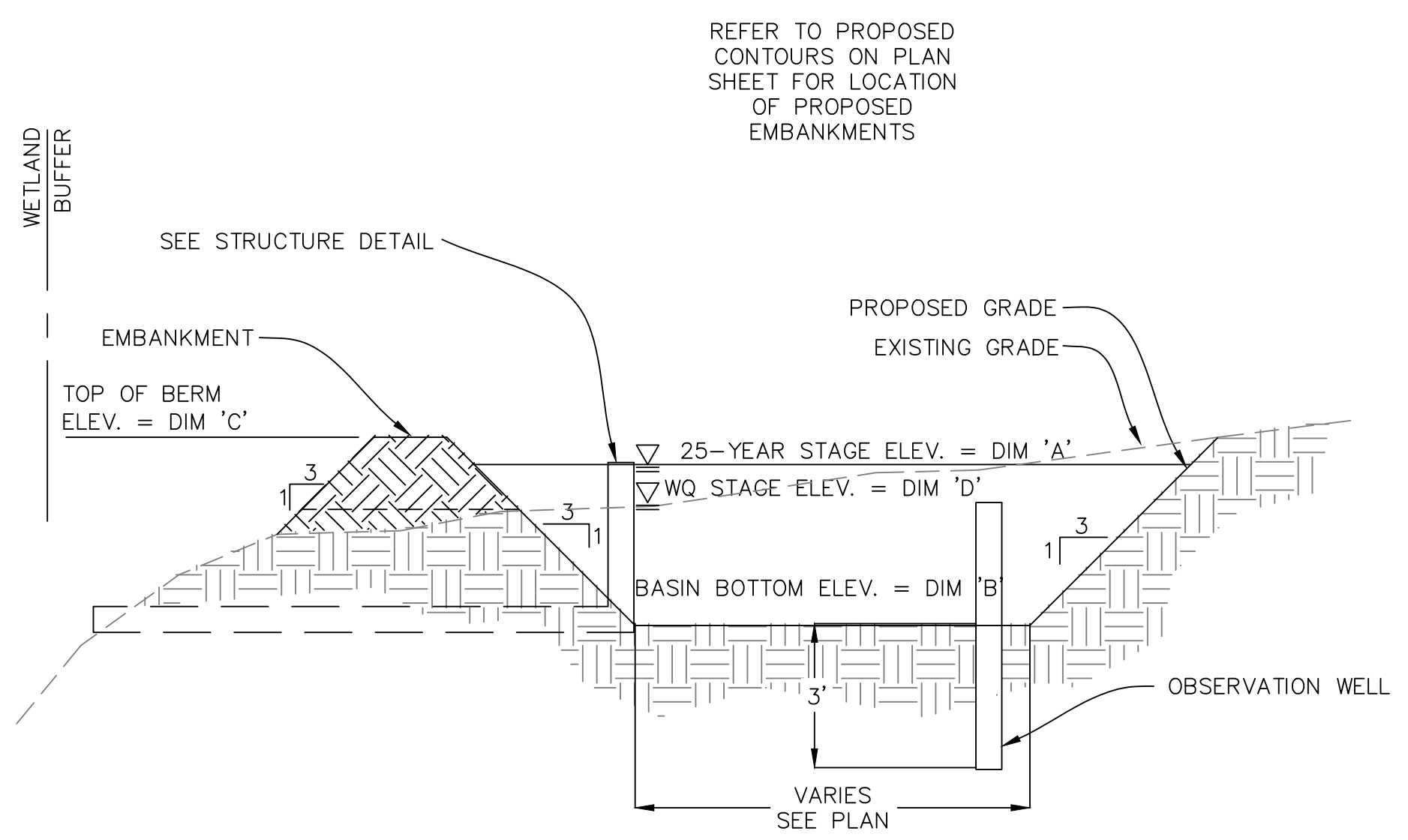
No. 22816
01/23/26
PAUL R. MOORE

WARD EDWARDS, INC.
No. C00152


EARTHEN SURFACE
VARIES
#57 STONE
OVERLAP GEOTEXTILE FILTER FABRIC A MINIMUM OF 12"
6" PERFORATED ADS PIPE
WRAP STONE COMPLETELY WITH GEOTEXTILE FILTER FABRIC
8"
9"
9"

SUBGRADE DRAIN DETAIL

DETAIL 02630-021


REFER TO PROPOSED CONTOURS ON PLAN SHEET FOR LOCATION OF PROPOSED EMBANKMENTS
WETLAND BUFFER
SEE STRUCTURE DETAIL
PROPOSED GRADE
EXISTING GRADE
EMBANKMENT
TOP OF BERM ELEV. = DIM 'C'
25-YEAR STAGE ELEV. = DIM 'A'
WQ STAGE ELEV. = DIM 'D'
3
1
3
1
3
1
BASIN BOTTOM ELEV. = DIM 'B'
3'
OBSERVATION WELL
VARIES SEE PLAN

DIMENSION DATA

	BASIN 1	BASIN 2	BASIN 3	
DIM 'A'	26.00'	25.43'	26.51'	25 YR. PEAK
DIM 'B'	24.00'	24.00'	24.00'	BOTTOM ELEV
DIM 'C'	27.00'	27.00'	27.00'	TOP OF BERM
DIM 'D'	24.75'	26.00'	24.25'	WQ PEAK

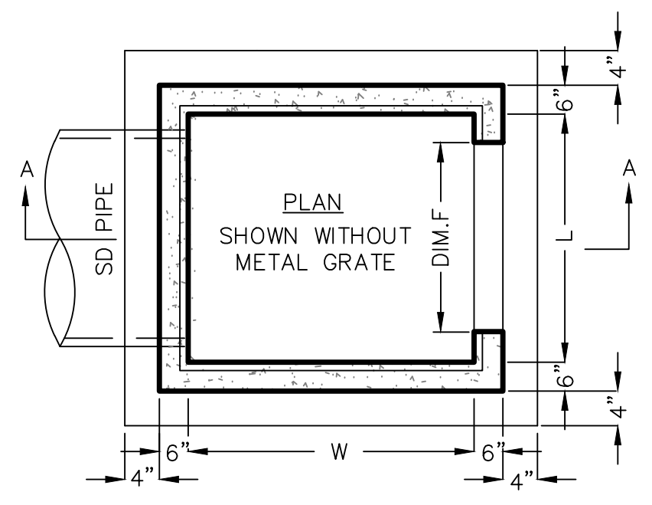
EMBANKMENT CONSTRUCTION NOTES:
1. ALL VEGETATION ROOTS, BRUSH, SOD, RUBBISH, DEBRIS, AND ALL OTHER UNSUITABLE MATERIALS SHALL BE STRIPPED AND REMOVED FROM THE LIMITS OF THE PROPOSED EMBANKMENT CONSTRUCTION.
2. THE MATERIAL FOR THE EMBANKMENT CONSTRUCTION SHALL CONSIST OF SAND-CLAY OR CLAYEY SAND. THE SOIL FILL SHALL BE FREE OF ORGANICS AND SENSITIVE CLAY MATERIALS.
3. THE EMBANKMENT AND BACKFILL MATERIAL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY, AS DETERMINED BY THE STANDARD PROCTOR TEST. ALL FILL SHALL BE COMPACTED TO THE LINES, DEPTHS, AND GRADES AS INDICATED. EXCESS EXCAVATION OF THE EXISTING SOILS MAY BE NECESSSARY TO OBTAIN THE REQUIRED DENSITY AT THE LIMITS OF EXCAVATION.

EROSION & SEDIMENT CONTROL NOTE:
1. SEE PLANS FOR INDICATION OF EROSION CONTROL MEASURES AND SURFACE STABILIZATION METHOD TO BE USED

ADDITIONAL CONSTRUCTION NOTES:
1. THE OBSERVATION WELL SHOULD CONSIST OF A WELL-ANCHORED, PERFORATED 4-TO6-INCH DIAMETER PVC PIPE
2. THE OBSERVATION WELL SHOULD NOT HAVE PERFORATIONS WITHIN ONE FOOT OF THE SURFACE
3. THE OBSERVATION WELL SHOULD EXTEND VERTICALLY FROM THE BOTTOM OF THE STONE LATER UP TO THE TOP OF THE WATER QUALITY PONDING DEPTH

INFILTRATION BASIN CROSS SECTION

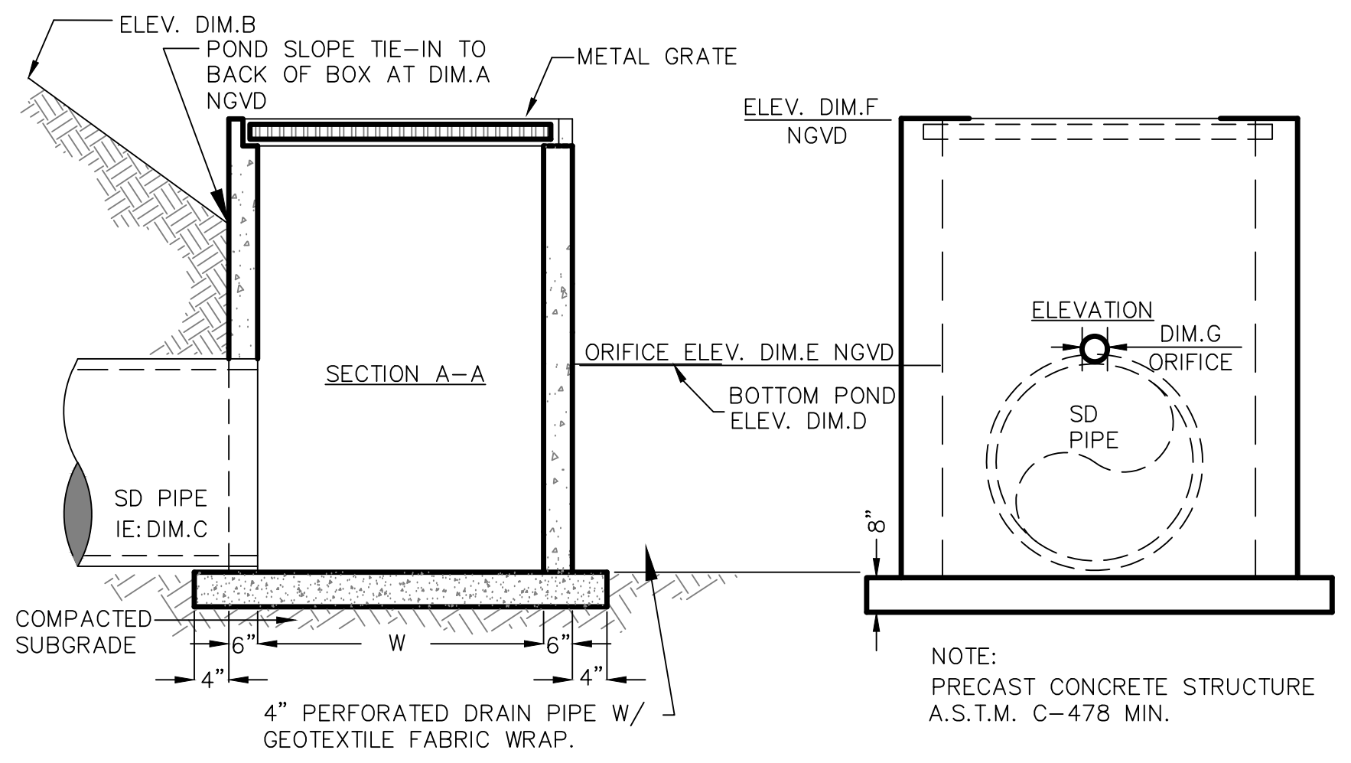
DETAIL 02630-033


A
SD PIPE
PLAN
SHOWN WITHOUT METAL GRATE
DIM.F
L
A
4"
6"
6"
4"
6"
W
6"
4"
4"

DIMENSIONS

	DROP-1	DROP-2	DROP-3	
A =	3:1	3:1	3:1	SLOPE TIE-IN
B =	27.00'	27.00'	27.00'	TOP OF BERM
C =	23.04'	24.06'	22.58'	INV. OUT
D =	24.00'	24.00'	24.00'	POND BOTTOM
E =	24.75'	26.00'	24.25'	ORIFICE INV.
F =	27.00'	27.00'	27.00'	TOP OF BOX
G =	1.00'	0.75'	0.75'	ORIFICE DIA.
L =	4.00'	4.00'	4.00'	BOX LENGTH
W =	4.00'	4.00'	4.00'	BOX WIDTH

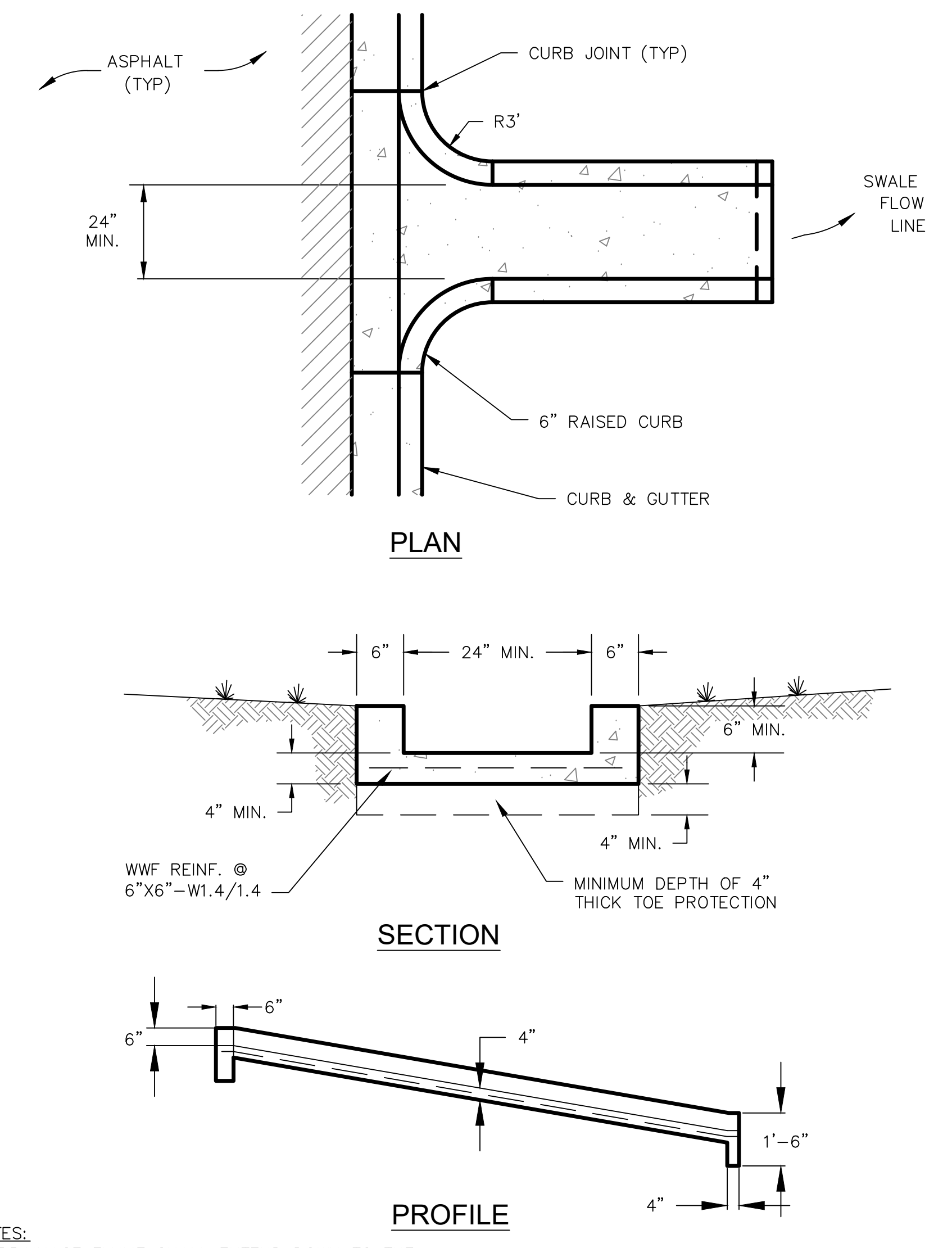
NOTE:
TYPICAL SIDE-SLOPE OF POND MAY VARY IN THE VICINITY OF CONTROL BOX AS DIRECTED BY ENGINEER IN FIELD.


ELEV. DIM.B
POND SLOPE TIE-IN TO BACK OF BOX AT DIM.A NGVD
METAL GRATE
ELEV. DIM.F NGVD
SECTION A-A
ORIFICE ELEV. DIM.E NGVD
BOTTOM POND ELEV. DIM.D
ELEVATION
DIM.G ORIFICE
SD PIPE
SD PIPE IE: DIM.C
8"
COMPACTED SUBGRADE
6"
W
6"
4"
4"
4" PERFORATED DRAIN PIPE W/ GEOTEXTILE FABRIC WRAP.

NOTE:
PRECAST CONCRETE STRUCTURE A.S.T.M. C-478 MIN.

BMP OUTLET CONTROL STRUCTURE

DETAIL 02630-031

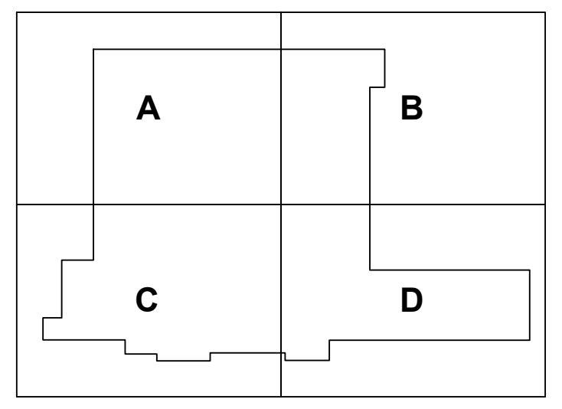

ASPHALT (TYP)
CURB JOINT (TYP)
R3'
24" MIN.
SWALE FLOW LINE
6" RAISED CURB
CURB & GUTTER
PLAN
6"
24" MIN.
6"
6" MIN.
4" MIN.
4" MIN.
WWF REINF. @ 6"X6"-W1.4/1.4
MINIMUM DEPTH OF 4" THICK TOE PROTECTION
SECTION
6"
6"
4"
1'-6"
4"
PROFILE

NOTES:
1. DRAINAGE FLUME SHALL EXTEND DOWN TO THE BOTTOM OF THE POND OR SWALE.
2. TO BE USED ON GRADUAL SLOPES OF 3:1 OR LESS.

CONCRETE FLUME - TYPE A

Ward Edwards ENGINEERING
119C Palmetto Way
P.O. Box 381, Bluffton,
South Carolina 29910
(843) 837-5250
www.WardEdwards.com
WE JOBNUMBER: 230641

KEYPLAN



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NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

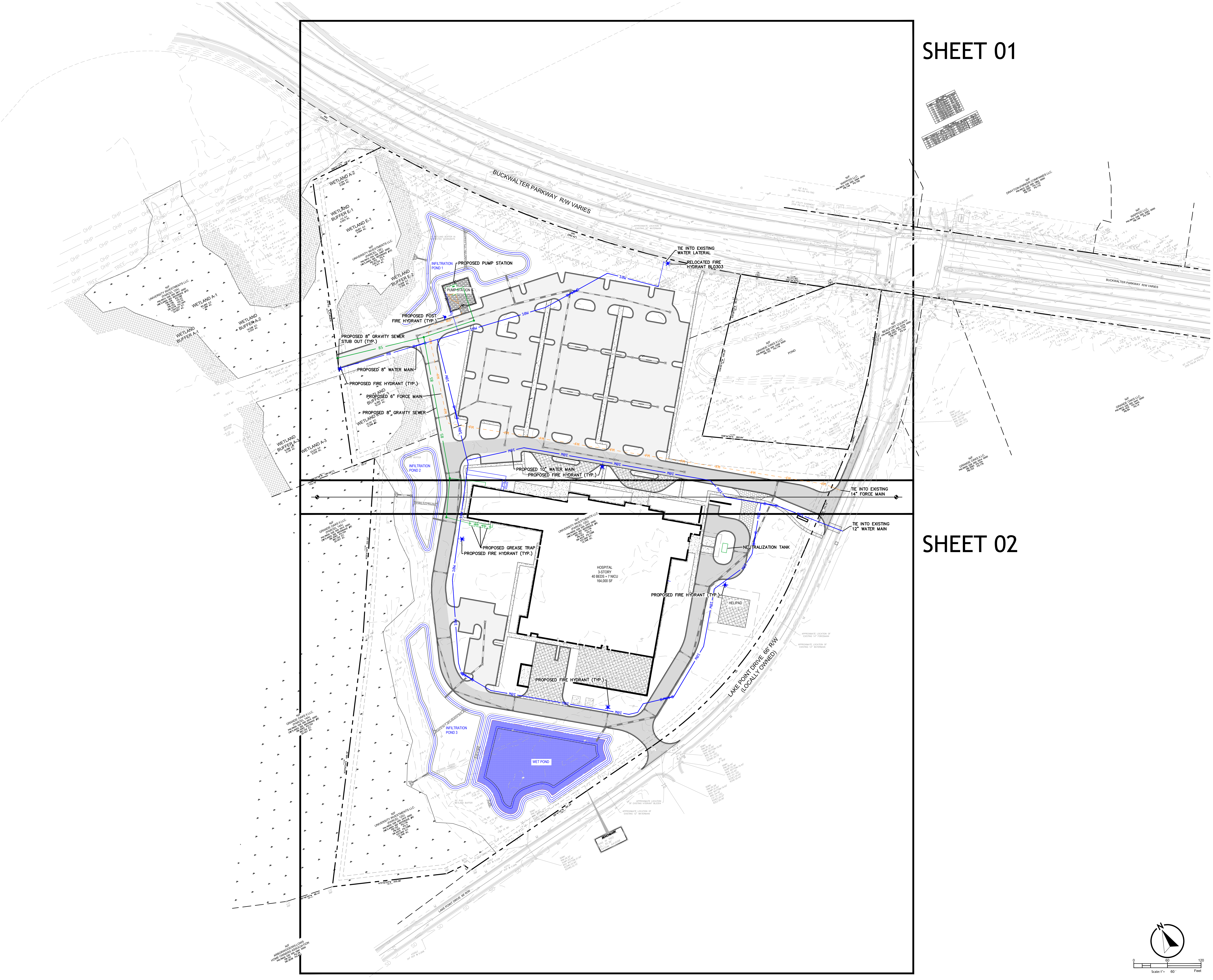
PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
DRAINAGE DETAILS

SHEET NUMBER
C-604

ATTACHMENT 7


SHEET 01
SHEET 02
BUCKWALTER PARKWAY R/W VARIES
TIE INTO EXISTING WATER LATERAL
RELOCATED FIRE HYDRANT BL0303
INFILTRATION POND 1
PROPOSED PUMP STATION
PUMP STATION
PROPOSED POST FIRE HYDRANT (TYP.)
PROPOSED 8" GRAVITY SEWER STUB OUT (TYP.)
PROPOSED 8" WATER MAIN
PROPOSED FIRE HYDRANT (TYP.)
PROPOSED 6" FORCE MAIN
PROPOSED 8" GRAVITY SEWER
WETLAND A-2
WETLAND BUFFER E-1
WETLAND E-1
WETLAND BUFFER E-2
WETLAND BUFFER A-1
WETLAND A-1
WETLAND BUFFER A-2
WETLAND BUFFER A-3
WETLAND A-3
WETLAND E-3
N/F UNIVERSITY INVESTMENTS LLC. (PARCEL 12E)
N/F GRANDE OAKS II LLC.
POND
N/F BEAUFORT COUNTY
INFILTRATION POND 2
PROPOSED 10" WATER MAIN
PROPOSED FIRE HYDRANT (TYP.)
TIE INTO EXISTING 14" FORCE MAIN
TIE INTO EXISTING 12" WATER MAIN
N/F UNIVERSITY INVESTMENTS LLC (PARCEL 12D)
PROPOSED GREASE TRAP
PROPOSED FIRE HYDRANT (TYP.)
HOSPITAL
3-STORY
40 BEDS + 7 NICU
164,000 SF
NEUTRALIZATION TANK
PROPOSED FIRE HYDRANT (TYP.)
HELIPAD
PROPOSED FIRE HYDRANT (TYP.)
LAKE POINT DRIVE 66' R/W (LOCALLY OWNED)
INFILTRATION POND 3
WET POND
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
APPROXIMATE LOCATION OF EXISTING HYDRANT BL0304
LAKE POINT DRIVE 60' R/W
N/F GRANDE OAKS II LLC. (PARCEL 14A)
N
0
60
120
Scale:1"= 60 ' Feet

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No. C00152

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KEYPLAN

A B
C D

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PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

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DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
OVERALL UTILITY PLAN

SHEET NUMBER
C-700

ATTACHMENT 7

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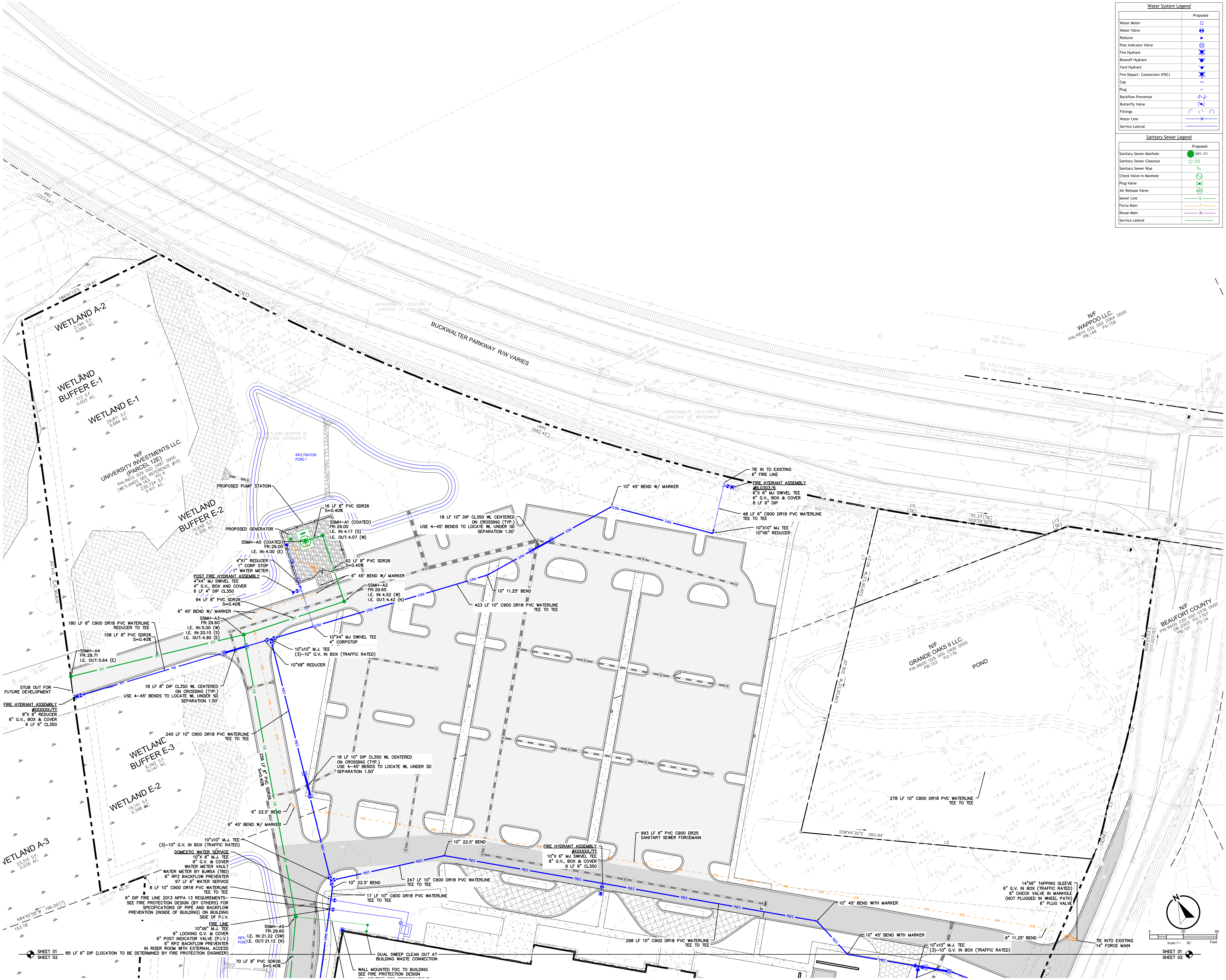
WETLAND A-2
2,194 S.F.
0.050 AC.
S89°51'13"E 136.61'
ARC (223.64')
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12E)
PIN: R610 029 000 2487 0000
(WETLANDS SEE REFERENCE #10)
PB: 163 PG: 4
235,724 S.F.
5.411 AC.
WETLAND BUFFER E-2
15,656 S.F.
0.359 AC.
N18°06'31"E 514.59'
35' WETLAND BUFFER IN RESTRICTED COVENANTS
INFILTRATION POND 1
BUCKWALTER PARKWAY R/W VARIES
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING 16" WATERMAIN
ARC (682.42')
50' HCOD BUFFER
PROPOSED PUMP STATION
16 LF 8" PVC SDR26
S=0.40%
SSMH-A1 (COATED)
FR: 29.00
I.E. IN: 4.17 (S)
I.E. OUT: 4.07 (W)
PROPOSED GENERATOR
SSMH-A0 (COATED)
FR: 29.00
I.E. IN: 4.00 (E)
4"X1" REDUCER
1" CORP STOP
1" WATER METER
62 LF 8" PVC SDR26
S=0.40%
POST FIRE HYDRANT ASSEMBLY
4"X4" MJ SWIVEL TEE
4" G.V., BOX AND COVER
6 LF 4" DIP CL350
6" 45° BEND W/ MARKER
SSMH-A2
FR: 29.65
I.E. IN: 4.52 (W)
I.E. OUT: 4.42 (N)
94 LF 8" PVC SDR26
S=0.40%
6" 45° BEND W/ MARKER
SSMH-A3
FR: 29.60
I.E. IN: 5.00 (W)
I.E. IN: 20.10 (S)
I.E. OUT: 4.90 (E)
180 LF 8" C900 DR18 PVC WATERLINE
REDUCER TO TEE
158 LF 8" PVC SDR26
S=0.40%
10"X4" MJ SWIVEL TEE
4" CORPSTOP
10"x10" M.J. TEE
(3)-10" G.V. IN BOX (TRAFFIC RATED)
10"X8" REDUCER
SSMH-A4
FR: 29.71
I.E. OUT: 5.64 (E)
STUB OUT FOR
FUTURE DEVELOPMENT
18 LF 8" DIP CL350 WL CENTERED
ON CROSSING (TYP.)
USE 4-45° BENDS TO LOCATE WL UNDER SD
SEPARATION 1.50'
FIRE HYDRANT ASSEMBLY
#XXXXXX/??
8"X 6" REDUCER
6" G.V., BOX & COVER
6 LF 6" CL350
240 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
N84°45'58"W 196.09'(T)
153.78'
42.31'
5/8" RBF W/CAP
18 LF 10" DIP CL350 WL CENTERED
ON CROSSING (TYP.)
USE 4-45° BENDS TO LOCATE WL UNDER SD
SEPARATION 1.50'
256 LF 8" PVC SDR26
S=0.40%
6" 22.5° BEND
6" 45° BEND W/ MARKER
10"x10" M.J. TEE
(3)-10" G.V. IN BOX (TRAFFIC RATED)
DOMESTIC WATER SERVICE
10"X 6" M.J. TEE
6" G.V. & COVER
WATER METER VAULT
WATER METER BY BJWSA (TBD)
6" RPZ BACKFLOW PREVENTER
97 LF 6" WATER SERVICE
8 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
6" DIP FIRE LINE 2013 NFPA 13 REQUIREMENTS-
SEE FIRE PROTECTION DESIGN (BY OTHERS) FOR
SPECIFICATIONS OF PIPE AND BACKFLOW
PREVENTION (INSIDE OF BUILDING) ON BUILDING
SIDE OF P.I.V.
FIRE LINE
10"X6" M.J. TEE
6" LOCKING G.V. & COVER
6" POST INDICATOR VALVE (P.I.V.)
6" RPZ BACKFLOW PREVENTER
IN RISER ROOM WITH EXTERNAL ACCESS
85 LF 6" DIP (LOCATION TO BE DETERMINED BY FIRE PROTECTION ENGINEER)
SHEET 01
SHEET 02
SSMH-A5
FR: 29.60
I.E. IN: 21.22 (SW)
I.E. OUT: 21.12 (N)
INFIL. POND
70 LF 8" PVC SDR26
S=0.40%
10" 22.5° BEND
247 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
17 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
DUAL SWEEP CLEAN OUT AT
BUILDING WASTE CONNECTION
WALL MOUNTED FDC TO BUILDING
SEE FIRE PROTECTION DESIGN
18 LF 10" DIP CL350 WL CENTERED
ON CROSSING (TYP.)
USE 4-45° BENDS TO LOCATE WL UNDER SD
SEPARATION 1.50'
10" 45° BEND W/ MARKER
10" 11.25° BEND
423 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
TIE IN TO EXISTING
6" FIRE LINE
FIRE HYDRANT ASSEMBLY
#BL0303/6
6"X 6" MJ SWIVEL TEE
6" G.V., BOX & COVER
8 LF 6" DIP
48 LF 6" C900 DR18 PVC WATERLINE
TEE TO TEE
10"X10" MJ TEE
10"X6" REDUCER
N/F
WAPPOO LLC.
PIN: R610 030 000 2064 0000
PB: 149 PG: 159
50' B.S.L.
(PER PB: 149 PG: 159)
20' UTILITY EASEMENT
(PER PB: 149 PG: 159)
TWO JUNCTION BOXES, NO ACCESS
C5 (TIE)
C1
92.33'(TIE)
S55°34'32"E L1
L13 (TIE)
L3
L8
S39°26'53"W 90.27'
S39°26'53"W 206.29'
N/F
GRANDE OAKS II LLC.
PIN: R600 029 000 2409 0000
PB: 153 PG: 176
POND
N/F
BEAUFORT COUNTY
PIN: R600 030 000 0376 0000
DB: 2003 PG: 1797
PB: 101 PG: 24
L4
N34°24'03"E 117.20'(TIE)
NO SIGNAL
SWL-CROSSWALK
278 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
S58°44'30"E 260.84'
L5
993 LF 6" PVC C900 DR25
SANITARY SEWER FORCEMAIN
10" 22.5° BEND
FIRE HYDRANT ASSEMBLY
#XXXXXX/??
10"X 6" MJ SWIVEL TEE
6" G.V., BOX & COVER
9 LF 6" CL350
298 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
10" 45° BEND WITH MARKER
10" 45° BEND WITH MARKER
10"x10" M.J. TEE
(3)-10" G.V. IN BOX (TRAFFIC RATED)
14"X6" TAPPING SLEEVE
6" G.V. IN BOX (TRAFFIC RATED)
6" CHECK VALVE IN MANHOLE
(NOT PLUGGED IN WHEEL PATH)
6" PLUG VALVE
6" 11.25° BEND
TIE INTO EXISTING
14" FORCE MAIN
10W
8S
M8
FM
N
0 30 60
Scale: 1"= 30'
Feet

Water System Legend

	Proposed
Water Meter	□
Water Valve	⊗
Reducer	▶
Post Indicator Valve	⊗
Fire Hydrant	HYD
Blowoff Hydrant	●
Yard Hydrant	●
Fire Depart. Connection (FDC)	FDC
Cap	⊓
Plug	–
Backflow Preventor	⊣N⊢
Butterfly Valve	⋈
Fittings	⌐ ⌐ ⊓
Water Line	—W—
Service Lateral	——

Sanitary Sewer Legend

	Proposed
Sanitary Sewer Manhole	● MH: A1
Sanitary Sewer Cleanout	○ CO
Sanitary Sewer Wye	⊼
Check Valve in Manhole	⊘
Plug Valve	⋈
Air Release Valve	ARV
Sewer Line	—S—
Force Main	—F—
Reuse Main	—R—
Service Lateral	——

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SUITE 2300
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DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
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No. 22816
01/23/26
PAUL R. MOORE

WARD EDWARDS, INC.
No. C00152

Ward Edwards ENGINEERING

119C Palmetto Way
P.O. Box 381, Bluffton,
South Carolina 29910

(843) 837-5250
www.WardEdwards.com

WE JOBNUMBER: 230641

KEYPLAN

A	B
C	D

REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

INTERIM REVIEW

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

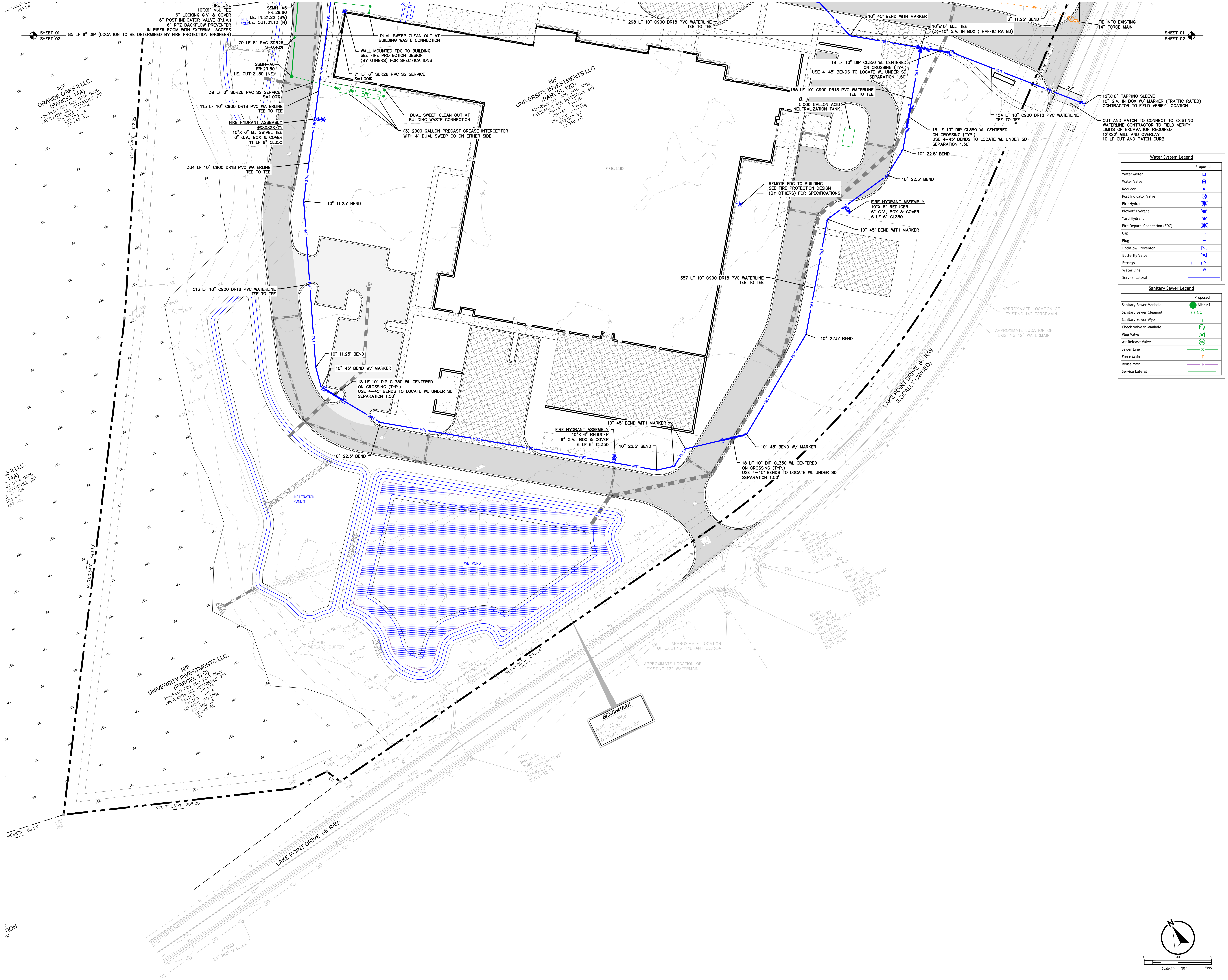
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
UTILITY PLAN

SHEET NUMBER
C-701

ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION


SHEET 01
SHEET 02
85 LF 6" DIP (LOCATION TO BE DETERMINED BY FIRE PROTECTION ENGINEER)
FIRE LINE
10"X6" M.J. TEE
6" LOCKING G.V. & COVER
6" POST INDICATOR VALVE (P.I.V.)
6" RPZ BACKFLOW PREVENTER
IN RISER ROOM WITH EXTERNAL ACCESS
SSMH-A5
FR: 29.60
I.E. IN: 21.22 (SW)
I.E. OUT: 21.12 (N)
INFIL. POND
70 LF 8" PVC SDR26
S=0.40%
SSMH-A6
FR: 29.50
I.E. OUT: 21.50 (NE)
39 LF 6" SDR26 PVC SS SERVICE
S=1.00%
115 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
FIRE HYDRANT ASSEMBLY
#XXXXXX/??
10"X 6" MJ SWIVEL TEE
6" G.V., BOX & COVER
11 LF 6" CL350
334 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
DUAL SWEEP CLEAN OUT AT
BUILDING WASTE CONNECTION
WALL MOUNTED FDC TO BUILDING
SEE FIRE PROTECTION DESIGN
(BY OTHERS) FOR SPECIFICATIONS
71 LF 6" SDR26 PVC SS SERVICE
S=1.00%
DUAL SWEEP CLEAN OUT AT
BUILDING WASTE CONNECTION
(3) 2000 GALLON PRECAST GREASE INTERCEPTOR
WITH 4" DUAL SWEEP CO ON EITHER SIDE
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN:R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB:3093 PG:104
891,104 S.F.
20.457 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN:R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB:153 PG:176
DB:4019 PG:1098
537,900 S.F.
12.348 AC.
N29°41'05"E 322.22'
10" 11.25° BEND
F.F.E.: 30.00'
298 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
10" 45° BEND WITH MARKER
10"x10" M.J. TEE
(3)-10" G.V. IN BOX (TRAFFIC RATED)
6" 11.25° BEND
TIE INTO EXISTING
14" FORCE MAIN
18 LF 10" DIP CL350 WL CENTERED
ON CROSSING (TYP.)
USE 4-45° BENDS TO LOCATE WL UNDER SD
SEPARATION 1.50'
165 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
5,000 GALLON ACID
NEUTRALIZATION TANK
154 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
22'
S49°25'37"W 242.50'
12"X10" TAPPING SLEEVE
10" G.V. IN BOX W/ MARKER (TRAFFIC RATED)
CONTRACTOR TO FIELD VERIFY LOCATION
CUT AND PATCH TO CONNECT TO EXISTING
WATERLINE CONTRACTOR TO FIELD VERIFY
LIMITS OF EXCAVATION REQUIRED
12'X22' MILL AND OVERLAY
10 LF CUT AND PATCH CURB
18 LF 10" DIP CL350 WL CENTERED
ON CROSSING (TYP.)
USE 4-45° BENDS TO LOCATE WL UNDER SD
SEPARATION 1.50'
10" 22.5° BEND
10" 22.5° BEND
REMOTE FDC TO BUILDING
SEE FIRE PROTECTION DESIGN
(BY OTHERS) FOR SPECIFICATIONS
FIRE HYDRANT ASSEMBLY
10"X 6" REDUCER
6" G.V., BOX & COVER
6 LF 6" CL350
10" 45° BEND WITH MARKER
357 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
513 LF 10" C900 DR18 PVC WATERLINE
TEE TO TEE
10" 22.5° BEND
APPROXIMATE LOCATION OF
EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF
EXISTING 12" WATERMAIN
10" 11.25° BEND
10" 45° BEND W/ MARKER
18 LF 10" DIP CL350 WL CENTERED
ON CROSSING (TYP.)
USE 4-45° BENDS TO LOCATE WL UNDER SD
SEPARATION 1.50'
LAKE POINT DRIVE 66' R/W
(LOCALLY OWNED)
10" 45° BEND WITH MARKER
FIRE HYDRANT ASSEMBLY
10"X 6" REDUCER
6" G.V., BOX & COVER
6 LF 6" CL350
10" 22.5° BEND
10" 45° BEND W/ MARKER
18 LF 10" DIP CL350 WL CENTERED
ON CROSSING (TYP.)
USE 4-45° BENDS TO LOCATE WL UNDER SD
SEPARATION 1.50'
10" 22.5° BEND
INFILTRATION
POND 3
WET POND
30' PUD
WETLAND BUFFER
N33°00'54"E 446.18'
S81°41'05"W 391.24'
APPROXIMATE LOCATION
OF EXISTING HYDRANT BLG304
APPROXIMATE LOCATION OF
EXISTING 12" WATERMAIN
BENCHMARK
NAIL IN TREE
EL: 30.36
DATUM: NAVD88
N70°32'03"W 205.08'
86.14'
LAKE POINT DRIVE 66' R/W
N
0
30
60
Feet
Scale: 1"= 30'

Water System Legend

	Proposed
Water Meter	□
Water Valve	⊗
Reducer	▶
Post Indicator Valve	⊗
Fire Hydrant	HYD
Blowoff Hydrant	●
Yard Hydrant	●
Fire Depart. Connection (FDC)	FDC
Cap	⊓
Plug	–
Backflow Preventor	⊣N⊢
Butterfly Valve	⋈
Fittings	⌐ ⌐ ⊓
Water Line	—W—
Service Lateral	——

Sanitary Sewer Legend

	Proposed
Sanitary Sewer Manhole	● MH: A1
Sanitary Sewer Cleanout	○ CO
Sanitary Sewer Wye	Y
Check Valve in Manhole	⊘
Plug Valve	⋈
Air Release Valve	ARV
Sewer Line	—S—
Force Main	—F—
Reuse Main	—R—
Service Lateral	——

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22816 PAUL R. MOORE 01/23/26

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

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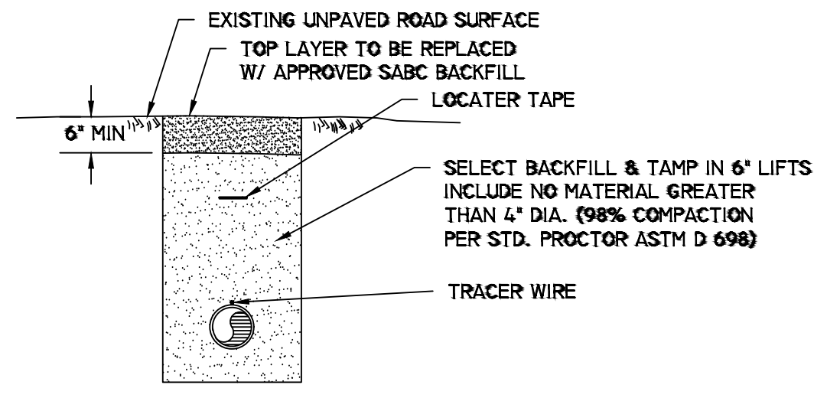
DRAWN BY	CHECKED BY
GFONSECA	LKINCAID

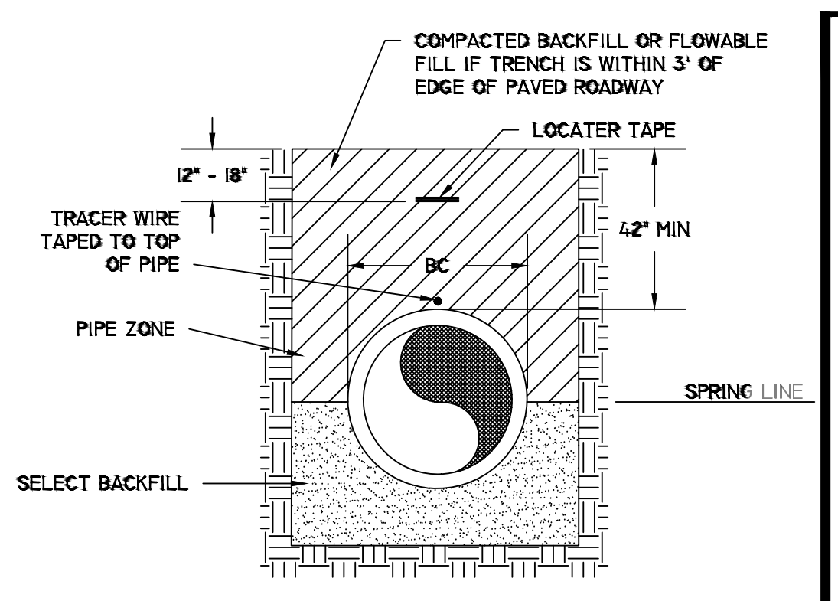
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
UTILITY PLAN

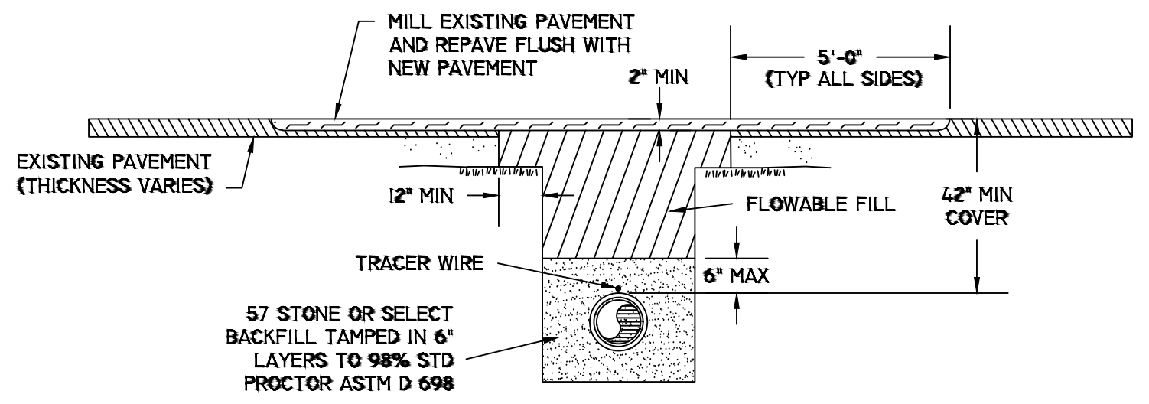
SHEET NUMBER
C-702


EXISTING UNPAVED ROAD SURFACE
TOP LAYER TO BE REPLACED W/ APPROVED SABC BACKFILL
LOCATER TAPE
6" MIN
SELECT BACKFILL & TAMP IN 6" LIFTS INCLUDE NO MATERIAL GREATER THAN 4" DIA. (98% COMPACTION PER STD. PROCTOR ASTM D 698)
TRACER WIRE

UNPAVED ROADWAY BEDDING DETAIL


COMPACTED BACKFILL OR FLOWABLE FILL IF TRENCH IS WITHIN 3' OF EDGE OF PAVED ROADWAY
LOCATER TAPE
12" - 18"
TRACER WIRE TAPED TO TOP OF PIPE
42" MIN
BC
PIPE ZONE
SPRING LINE
SELECT BACKFILL

TYPICAL BEDDING DETAIL

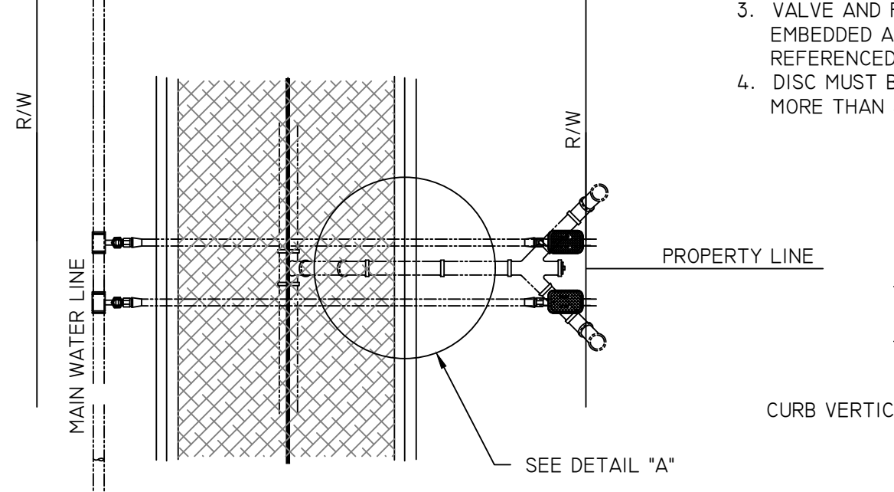

MILL EXISTING PAVEMENT AND REPAVE FLUSH WITH NEW PAVEMENT
2" MIN
5'-0" (TYP ALL SIDES)
EXISTING PAVEMENT (THICKNESS VARIES)
12" MIN
FLOWABLE FILL
42" MIN COVER
TRACER WIRE
6" MAX
57 STONE OR SELECT BACKFILL TAMPED IN 6" LAYERS TO 98% STD PROCTOR ASTM D 698

PAVED AREA DETAIL

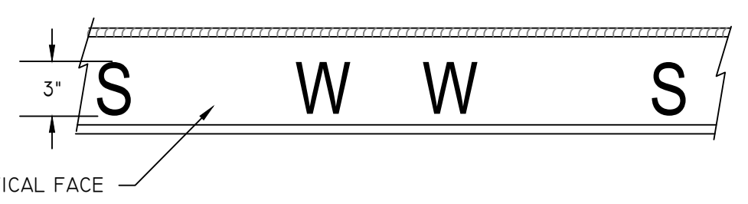
NOTES:
1. PAVEMENT CUT TO EXTEND 12" BEYOND EDGES OF TRENCH AS SHOWN.
2. MILL AND REPLACE OF ASPHALT TO EXTENTS SHOWN SHALL BE BY SCDOT CERTIFIED PAVING CONTRACTOR. MINIMUM THICKNESS OF ASPHALT REPLACEMENT SHALL BE 2 INCHES.
3. FLOWABLE FILL SHALL BE PLACED FLUSH WITH BOTTOM OF EXISTING PAVEMENT MILL. NO VOIDS OR FILL SHALL BE EVIDENT BETWEEN FLOWABLE FILL AND NEW ASPHALT PAVEMENT.
4. LANE STRIPING SHALL ONLY BE REPLACED ON NEW ASHPALT PAVEMENT AND ANY AREAS OF EXISTING ROADWAY DAMAGED BY CONSTRUCTION ACTIVITIES.
5. ALL INSTALLATIONS IN PUBLIC ROADWAYS SHALL COMPLY WITH CONDITIONS OUTLINED ON THE APPLICABLE ENCROACHMENT PERMIT.

BEAUFORT - JASPER
WATER & SEWER AUTHORITY
BEDDING PRESSURE PIPE DETAIL
DATE 05/07/18 | DRAWN BY: SBF | DRAWING #: G-02
SCALE: N.T.S. | APPROVED BY: BMC

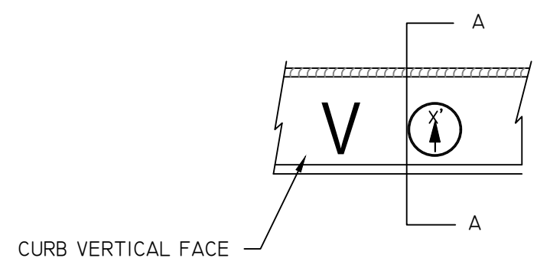
NOTES:
1. CURB MARKING SHALL BE PERPENDICULAR WITH SERVICE LOCATION.
2. CURB MARKING SHALL BE EMBOSSED INTO CURB FACE.
   A. WATER SERVICES SHALL BE DENOTED WITH A "W".
   B. SEWER SERVICES SHALL BE DENOTED WITH A "S".
   C. VALVES SHALL BE DENOTED BY A "V".
   D. BENDS SHALL BE DENOTED WITH A "B".
3. VALVE AND PIPELINE MARKERS ARE NOT REQUIRED IF A SURVEYORS 2"Ø BRASS DISK IS EMBEDDED ADJACENT TO EMBOSSED LETTER AND MARKED TO INDICATE LOCATION OF REFERENCED ITEM.
4. DISC MUST BE EMBEDDED, MAY NOT PROTRUDE PASS CONCRETE SURFACE OR EMBEDDED MORE THAN 3/8".


R/W
R/W
MAIN WATER LINE
PROPERTY LINE
SEE DETAIL "A"

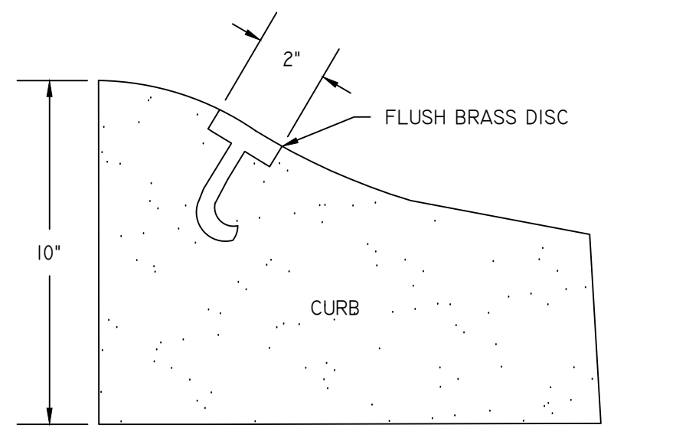
PLAN VIEW


3"
S
W
W
S
CURB VERTICAL FACE

DETAIL "A"

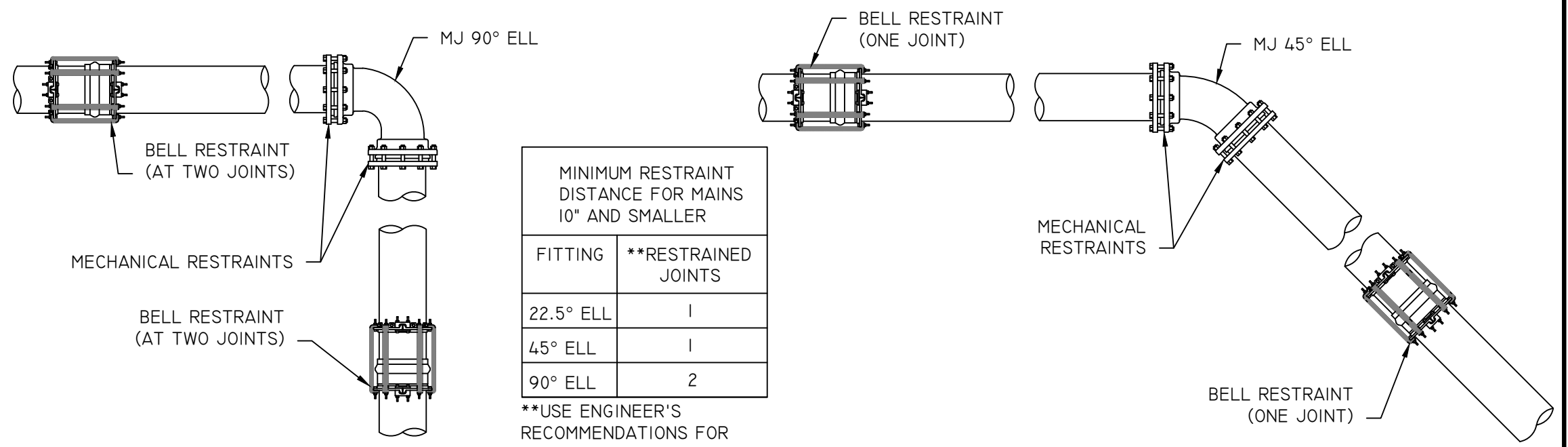

A
V
X'
A
CURB VERTICAL FACE

DETAIL "B"


2"
FLUSH BRASS DISC
10"
CURB

SECTION A-A

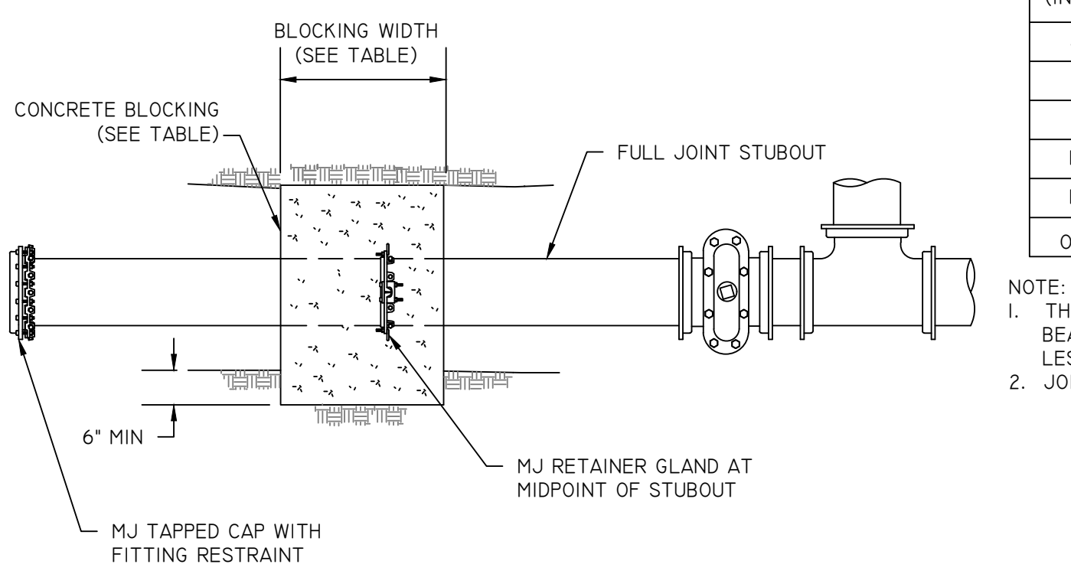
BEAUFORT–JASPER
WATER & SEWER AUTHORITY
CURB MARKING DETAIL
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: G–07
SCALE: N.T.S | APPROVED BY: ERS


MJ 90° ELL
BELL RESTRAINT (AT TWO JOINTS)
MECHANICAL RESTRAINTS
BELL RESTRAINT (AT TWO JOINTS)
BELL RESTRAINT (ONE JOINT)
MJ 45° ELL
MECHANICAL RESTRAINTS
BELL RESTRAINT (ONE JOINT)

MINIMUM RESTRAINT DISTANCE FOR MAINS 10" AND SMALLER	
FITTING	**RESTRAINED JOINTS
22.5° ELL	1
45° ELL	1
90° ELL	2

**USE ENGINEER'S RECOMMENDATIONS FOR SIZES GREATER THAN 10"

TYPICAL FITTING AND JOINT RESTRAINT


BLOCKING WIDTH (SEE TABLE)
CONCRETE BLOCKING (SEE TABLE)
FULL JOINT STUBOUT
6" MIN
MJ RETAINER GLAND AT MIDPOINT OF STUBOUT
MJ TAPPED CAP WITH FITTING RESTRAINT

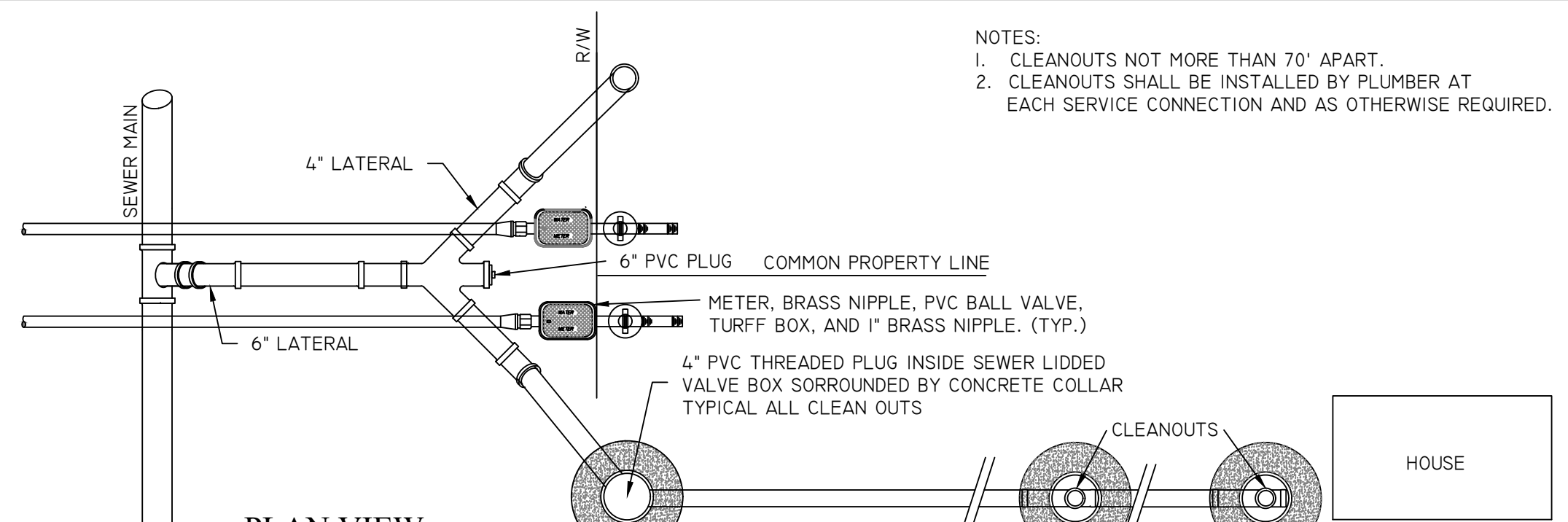
TYPICAL FUTURE STUBOUT

MINIMUM BLOCKING DIMENSIONS		
PIPE SIZE (IN)	BLOCKING BEARING AREA (FT²)	BLOCKING WIDTH (IN)
4	2	24
6	4	24
8	7	36
10	11	36
12	15	36
OVER 12" BY THE DESIGN ENGINEER		

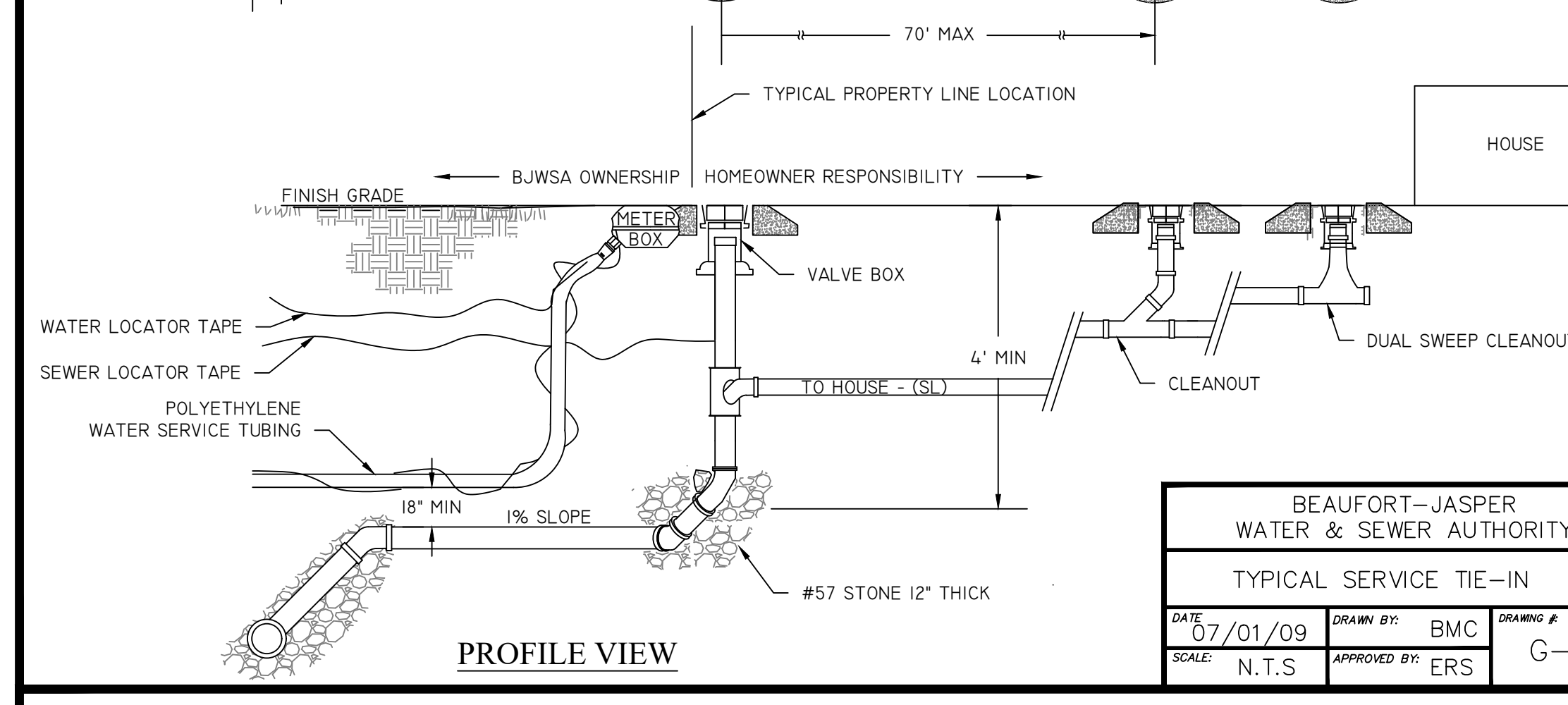
NOTE:
1. THE MINIMUM DIMENSIONS TABLE IS BASED ON AN ASSUMED SOIL BEARING OF 2000 LBS PER SQ. FT. IF BEARING VALUE FOR SOIL IS LESS THAN AREA SHOWN HEREIN SHOULD BE INCREASED ACCORDINGLY.
2. JOINT IS DEFINED TO BE A MINIMUM OF 18' IN LENGTH.

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
MECHANICAL RESTRAINT
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: G–08
SCALE: N.T.S | APPROVED BY: ERS

NOTES:
1. CLEANOUTS NOT MORE THAN 70' APART.
2. CLEANOUTS SHALL BE INSTALLED BY PLUMBER AT EACH SERVICE CONNECTION AND AS OTHERWISE REQUIRED.

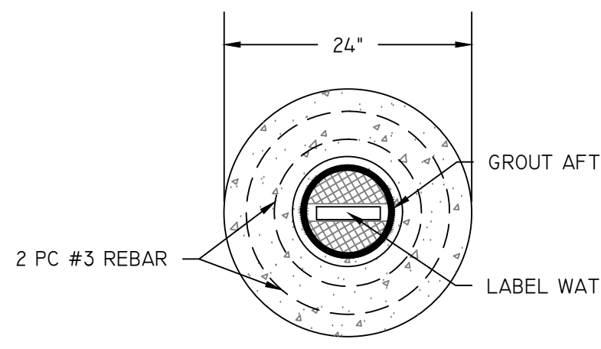

R/W
SEWER MAIN
4" LATERAL
6" PVC PLUG
COMMON PROPERTY LINE
METER, BRASS NIPPLE, PVC BALL VALVE, TURFF BOX, AND 1" BRASS NIPPLE. (TYP.)
6" LATERAL
4" PVC THREADED PLUG INSIDE SEWER LIDDED VALVE BOX SORROUNDED BY CONCRETE COLLAR TYPICAL ALL CLEAN OUTS
CLEANOUTS
HOUSE

PLAN VIEW

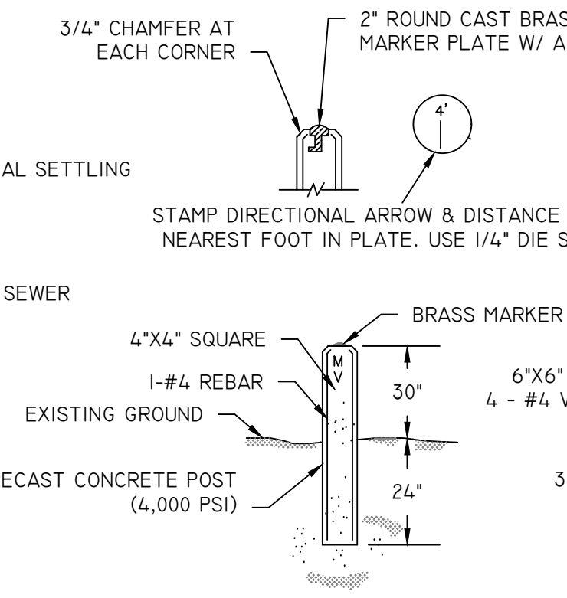

70' MAX
TYPICAL PROPERTY LINE LOCATION
HOUSE
BJWSA OWNERSHIP
HOMEOWNER RESPONSIBILITY
FINISH GRADE
METER BOX
VALVE BOX
WATER LOCATOR TAPE
SEWER LOCATOR TAPE
POLYETHYLENE WATER SERVICE TUBING
4' MIN
TO HOUSE - (SL)
DUAL SWEEP CLEANOUT
CLEANOUT
18" MIN
1% SLOPE
#57 STONE 12" THICK

PROFILE VIEW

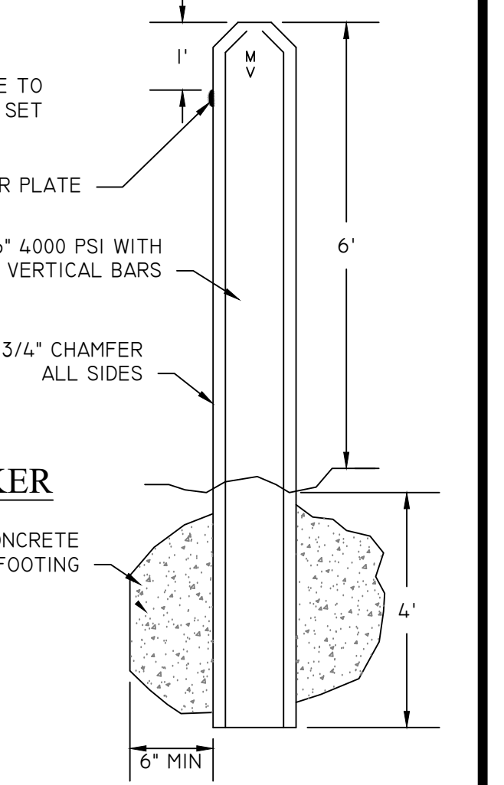
BEAUFORT–JASPER
WATER & SEWER AUTHORITY
TYPICAL SERVICE TIE–IN
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: G–10
SCALE: N.T.S | APPROVED BY: ERS


24"
GROUT AFTER FINAL SETTLING
2 PC #3 REBAR
LABEL WATER OR SEWER

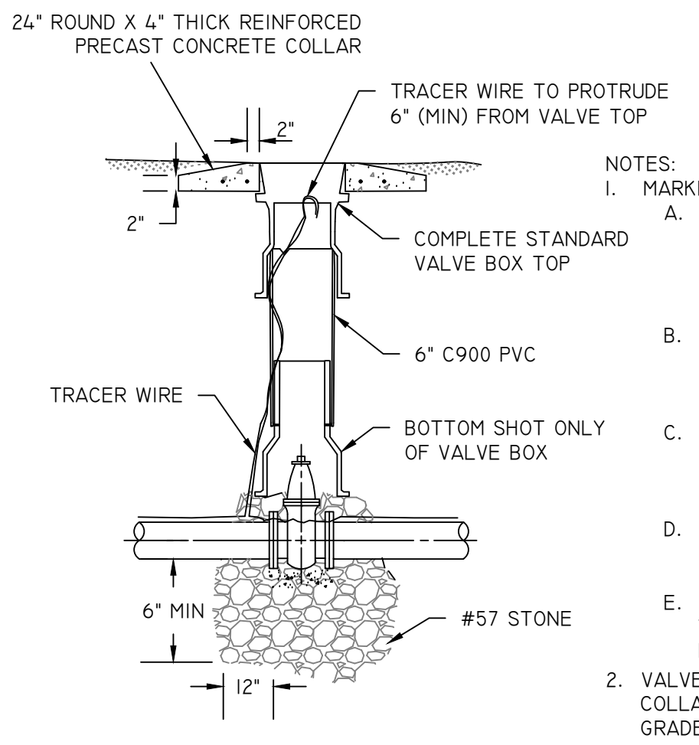
CONCRETE COLLAR


3/4" CHAMFER AT EACH CORNER
2" ROUND CAST BRASS SURVEY MARKER PLATE W/ ANCHOR
4'
STAMP DIRECTIONAL ARROW & DISTANCE TO NEAREST FOOT IN PLATE. USE 1/4" DIE SET
4"X4" SQUARE
1-#4 REBAR
EXISTING GROUND
30"
24"
PRECAST CONCRETE POST (4,000 PSI)
M V

URBAN CONCRETE MARKER


BRASS MARKER PLATE
1'
M V
6"X6" 4000 PSI WITH 4 - #4 VERTICAL BARS
6'
3/4" CHAMFER ALL SIDES
CONCRETE FOOTING
4'
6" MIN

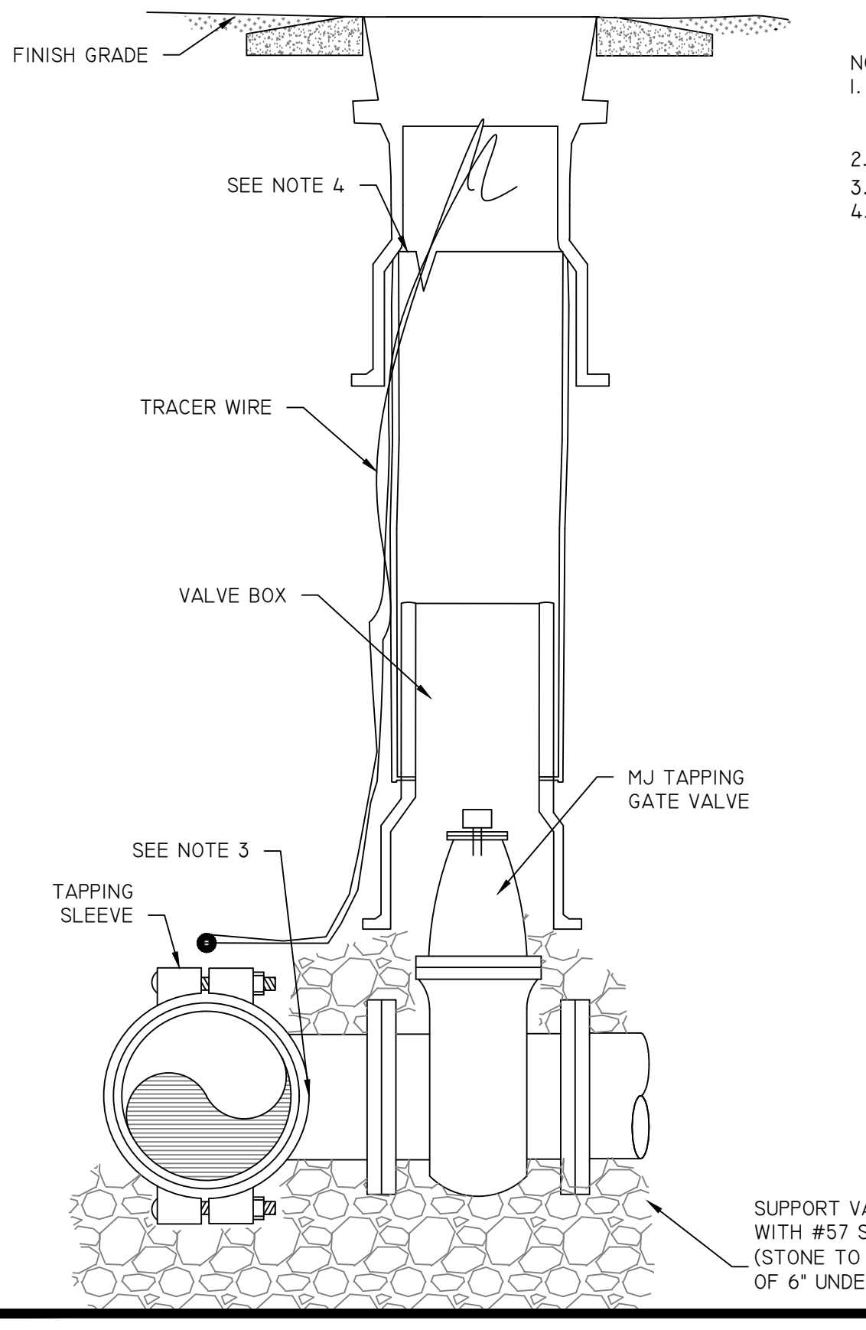
RURAL CONCRETE MARKER


24" ROUND X 4" THICK REINFORCED PRECAST CONCRETE COLLAR
TRACER WIRE TO PROTRUDE 6" (MIN) FROM VALVE TOP
2"
2"
COMPLETE STANDARD VALVE BOX TOP
6" C900 PVC
TRACER WIRE
BOTTOM SHOT ONLY OF VALVE BOX
6" MIN
#57 STONE
12"

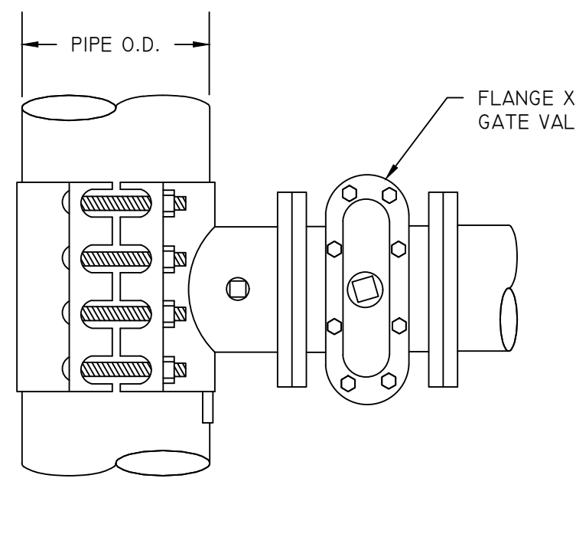
VALVE AND VALVE BOX

NOTES:
1. MARKERS
   A. VALVE MARKERS ARE REQUIRED FOR EACH VALVE (EXCEPT HYDRANT VALVES). PIPE LINE MARKERS ARE REQUIRED AT FITTINGS AND EACH 700' WHERE LINES RUN THROUGH AN UNDEVELOPED AREA. AR MANHOLE REQUIRES MANHOLE.
   B. MARKER PAINTING
      WATER - PAINTING NOT REQUIRED
      SEWER INFLUENT - TOP 4" GREEN
      SEWER EFFLUENT - TOP 4" PURPLE
   C. MARK MARKERS AS FOLLOWS
      MV - MAIN VALVE
      AV - AIR RELEASE VALVE
      PIPELINE - PIPELINE MARKER
   D. VALVE AND PIPELINE MARKERS IN MOWED AREAS TO BE SET TO AN EXPOSURE OF NOT MORE THAN 18" OR LESS THAN 6" ABOVE FINAL GRADE.
   E. IF SOILS ARE NOT STABLE ENOUGH TO MAINTAIN THE URBAN MARKERS VERTICAL, CONCRETE FOOTINGS ARE TO BE INSTALLED.
2. VALVE BOX LID SHALL BE WITHIN ½" OF COLLAR TOP. COLLAR TOP IS TO BE NO MORE THAN 1" ABOVE FINAL GRADE AND NO LOWER THAN 1" BELOW FINAL GRADE.
3. CONCRETE COLLAR NOT REQUIRED IN PAVEMENT. VALVE BOX TOP IS TO BE TRAFFIC RATED.

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
STANDARD VALVE DETAIL
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: G–12
SCALE: N.T.S | APPROVED BY: ERS

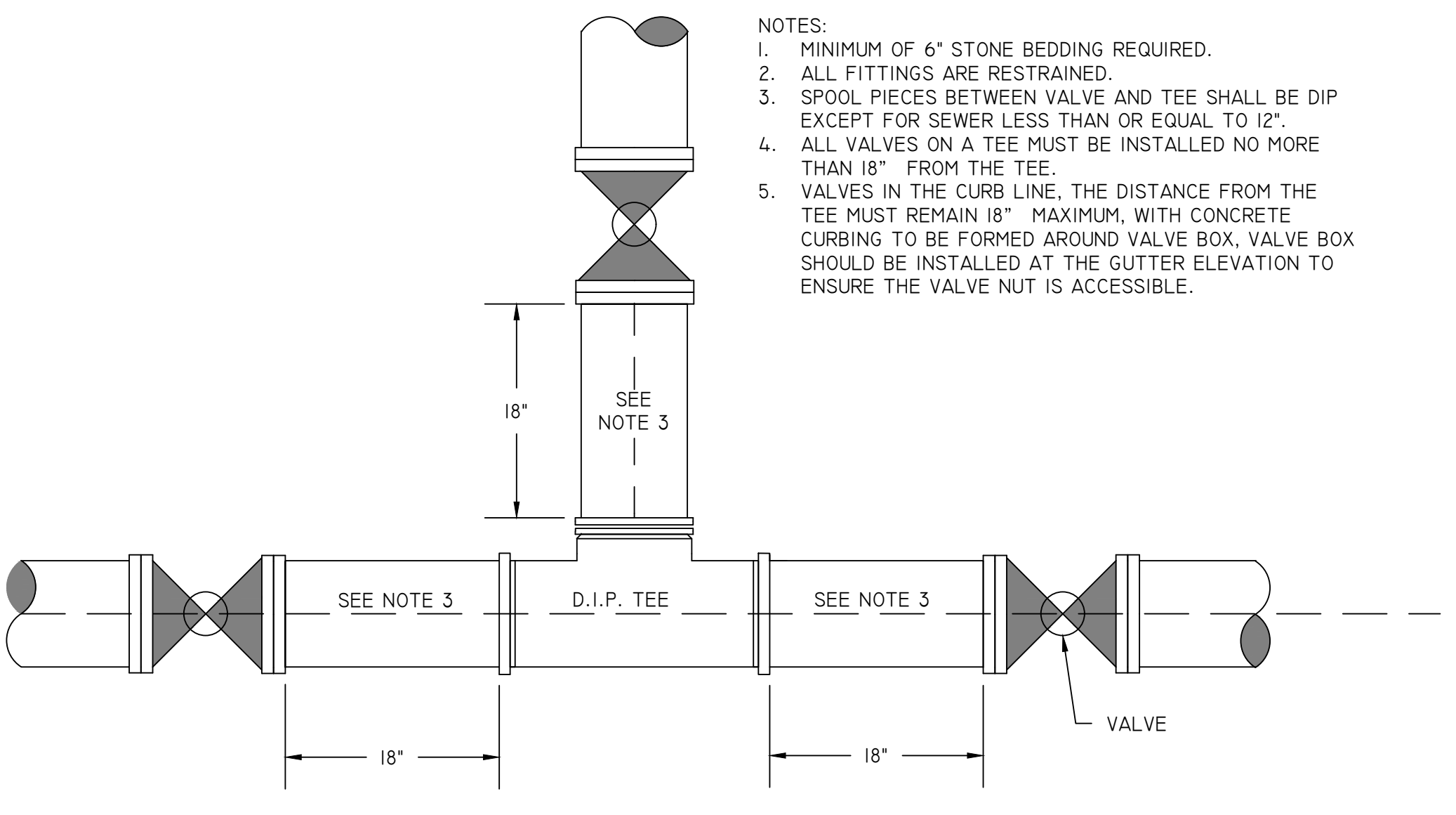

FINISH GRADE
SEE NOTE 4
TRACER WIRE
VALVE BOX
MJ TAPPING GATE VALVE
SEE NOTE 3
TAPPING SLEEVE
SUPPORT VALVE ASSEMBLY WITH #57 STONE. (STONE TO EXTEND MINIMUM OF 6" UNDER INVERT)

NOTES:
1. ALL TAPPING SLEEVES GREATER THAN 2" SHALL BE HYDROSTATICALLY PRESSURE TESTED TO 150 PSI FOR 20 MINUTES.
2. ALL WET TAPS 12" AND UNDER SHALL BE PERFORMED BY BJWSA.
3. TAP DIAMETER SHALL BE WITHIN ⅛" OF LINE DIAMETER.
4. NOTCH TOP OF PVC PIPE TO AVOID PINCHING TRACER WIRE.


PIPE O.D.
FLANGE X MJ TAPPING GATE VALVE

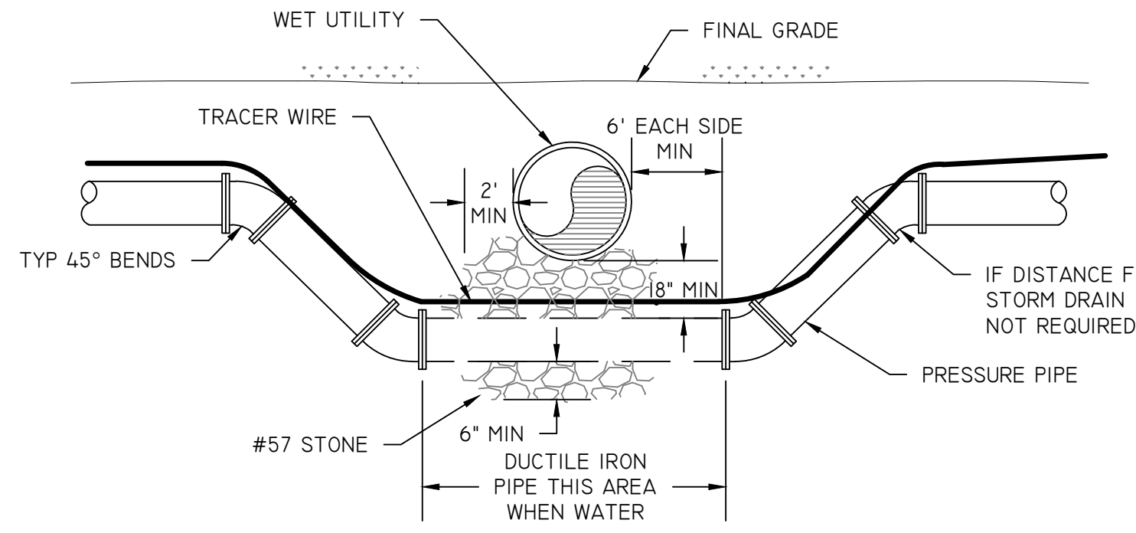
BEAUFORT–JASPER
WATER & SEWER AUTHORITY
TAPPING SLEEVE & VALVE DETAIL
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: G–13
SCALE: N.T.S | APPROVED BY: ERS

NOTES:
1. MINIMUM OF 6" STONE BEDDING REQUIRED.
2. ALL FITTINGS ARE RESTRAINED.
3. SPOOL PIECES BETWEEN VALVE AND TEE SHALL BE DIP EXCEPT FOR SEWER LESS THAN OR EQUAL TO 12".
4. ALL VALVES ON A TEE MUST BE INSTALLED NO MORE THAN 18" FROM THE TEE.
5. VALVES IN THE CURB LINE, THE DISTANCE FROM THE TEE MUST REMAIN 18" MAXIMUM, WITH CONCRETE CURBING TO BE FORMED AROUND VALVE BOX, VALVE BOX SHOULD BE INSTALLED AT THE GUTTER ELEVATION TO ENSURE THE VALVE NUT IS ACCESSIBLE.


18"
SEE NOTE 3
SEE NOTE 3
D.I.P. TEE
SEE NOTE 3
VALVE
18"
18"

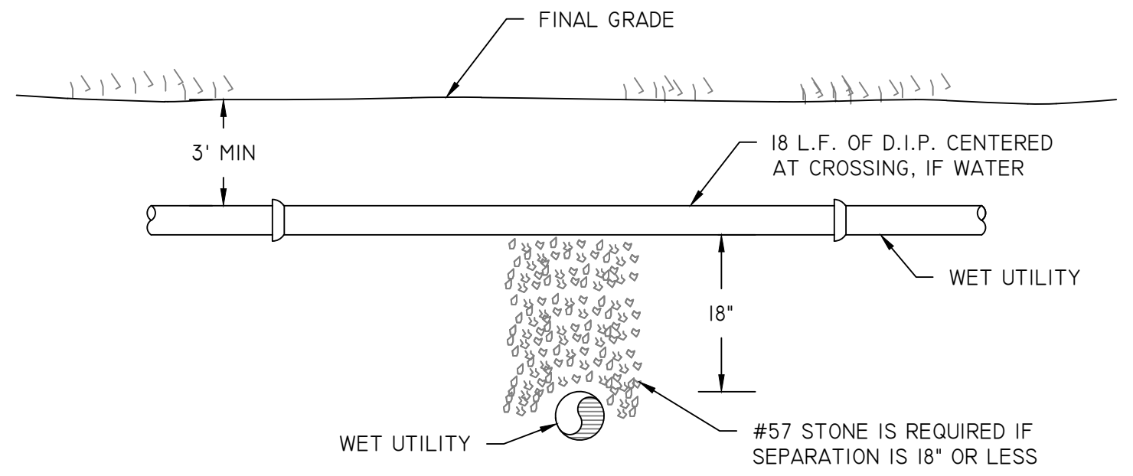
REVISED BY WARD EDWARDS 07/19/21
TO INCLUDE NOTES 4 & 5.

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
TEE AND VALVES
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: G–15
SCALE: N.T.S | APPROVED BY: ERS


WET UTILITY
FINAL GRADE
TRACER WIRE
6' EACH SIDE MIN
2' MIN
TYP 45° BENDS
18" MIN
IF DISTANCE FROM FINAL GRADE TO BOTTOM OF MAIN AT STORM DRAIN IS LESS THAN 5', THEN 45° BENDS ARE NOT REQUIRED. (SEE NOTE 2)
PRESSURE PIPE
#57 STONE
6" MIN
DUCTILE IRON PIPE THIS AREA WHEN WATER

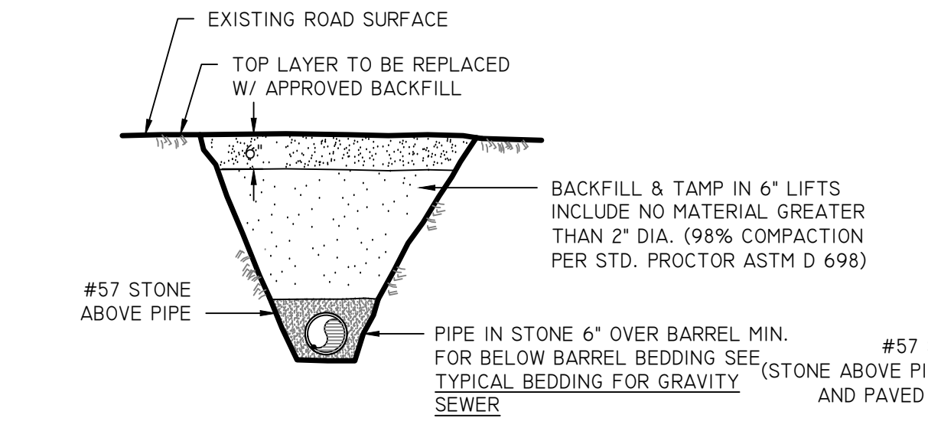
PRESSURE PIPE UNDER WET UTILITY
FOR FINAL DEPTH 5' OR GREATER

NOTES:
1. WRITTEN AUTHORIZATION FROM BJWSA IS REQUIRED FOR LESS THAN 18" SEPARATION.
2. NORMAL JOINT RESTRAINT IS REQUIRED.

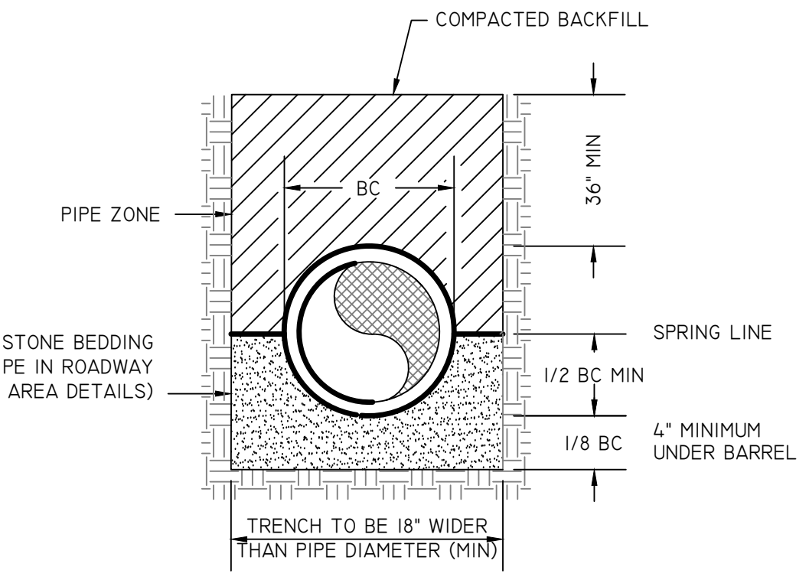

FINAL GRADE
3' MIN
18 L.F. OF D.I.P. CENTERED AT CROSSING, IF WATER
WET UTILITY
18"
WET UTILITY
#57 STONE IS REQUIRED IF SEPARATION IS 18" OR LESS

WET UTILITY CROSSING

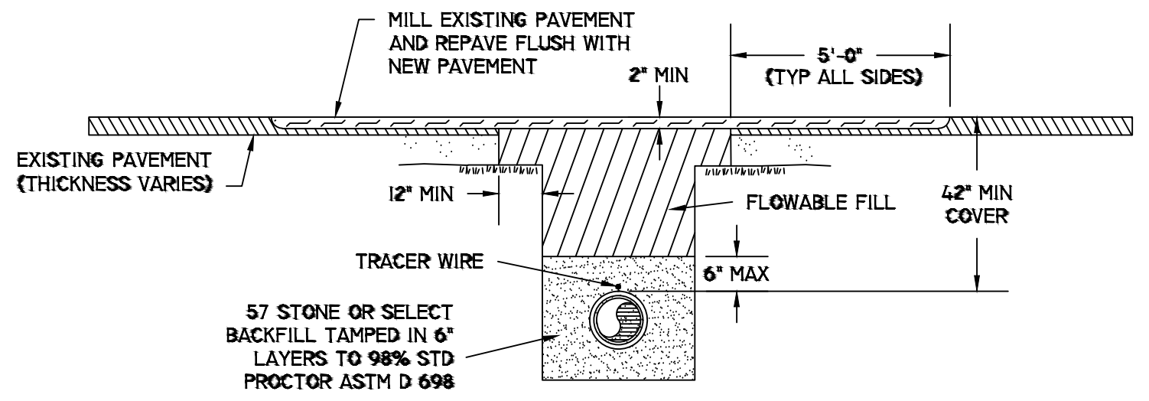
BEAUFORT–JASPER
WATER & SEWER AUTHORITY
WET UTILITY CROSSING
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: G–16
SCALE: N.T.S | APPROVED BY: ERS


EXISTING ROAD SURFACE
TOP LAYER TO BE REPLACED W/ APPROVED BACKFILL
6"
BACKFILL & TAMP IN 6" LIFTS INCLUDE NO MATERIAL GREATER THAN 2" DIA. (98% COMPACTION PER STD. PROCTOR ASTM D 698)
#57 STONE ABOVE PIPE
PIPE IN STONE 6" OVER BARREL MIN. FOR BELOW BARREL BEDDING SEE TYPICAL BEDDING FOR GRAVITY SEWER

UNPAVED ROADWAY BEDDING DETAIL


COMPACTED BACKFILL
PIPE ZONE
BC
36" MIN
#57 STONE BEDDING (STONE ABOVE PIPE IN ROADWAY AND PAVED AREA DETAILS)
SPRING LINE
1/2 BC MIN
1/8 BC
4" MINIMUM UNDER BARREL
TRENCH TO BE 18" WIDER THAN PIPE DIAMETER (MIN)

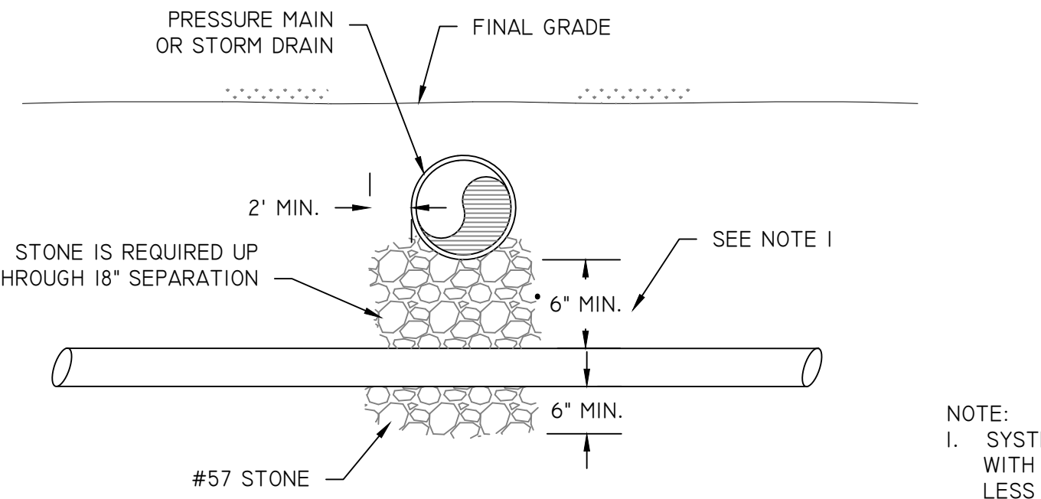
TYPICAL BEDDING FOR
GRAVITY SEWER PIPE


MILL EXISTING PAVEMENT AND REPAVE FLUSH WITH NEW PAVEMENT
2" MIN
5'-0" (TYP ALL SIDES)
EXISTING PAVEMENT (THICKNESS VARIES)
12" MIN
FLOWABLE FILL
42" MIN COVER
TRACER WIRE
6" MAX
57 STONE OR SELECT BACKFILL TAMPED IN 6" LAYERS TO 98% STD PROCTOR ASTM D 698

PAVED AREA DETAIL

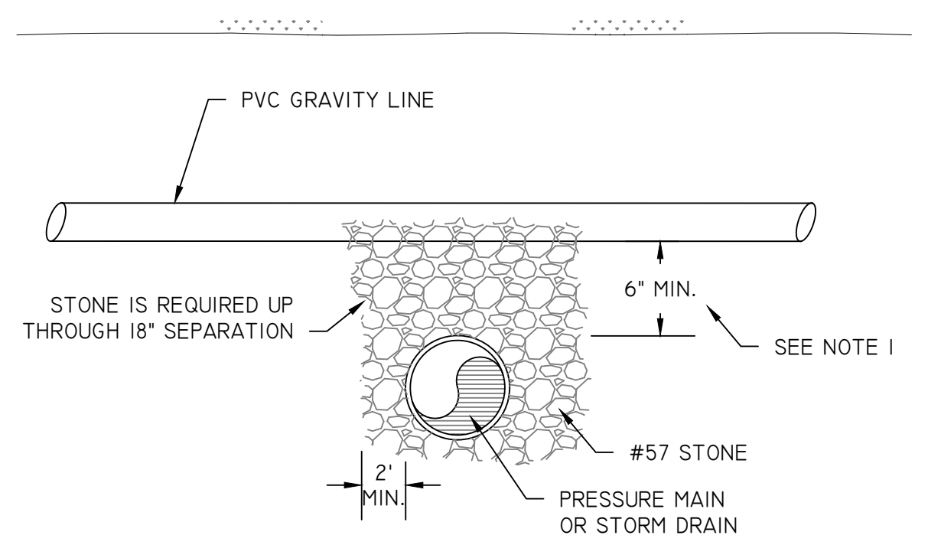
NOTES:
1. PAVEMENT CUT TO EXTEND 12" BEYOND EDGES OF TRENCH AS SHOWN.
2. MILL AND REPLACE OF ASPHALT TO EXTENTS SHOWN SHALL BE BY SCDOT CERTIFIED PAVING CONTRACTOR. MINIMUM THICKNESS OF ASPHALT REPLACEMENT SHALL BE 2".
3. FLOWABLE FILL SHALL BE PLACED FLUSH WITH BOTTOM OF EXISTING PAVEMENT MILL. NO VOIDS OR FILL SHALL BE EVIDENT BETWEEN FLOWABLE FILL AND NEW ASPHALT PAVEMENT.
4. LANE STRIPING SHALL BE ONLY REPLACED ON NEW ASPHALT PAVEMENT AND ANY AREAS OF EXISTING ROADWAY DAMAGED BY CONSTRUCTION ACTIVITIES.
5. ALL INSTALLATIONS IN PUBLIC ROADWAYS SHALL COMPLY WITH CONDITIONS OUTLINED ON THE APPLICABLE ENCROACHMENT PERMIT.

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
BEDDING DETAIL, GRAVITY PIPE
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: S–01
SCALE: N.T.S | APPROVED BY: ERS


PRESSURE MAIN OR STORM DRAIN
FINAL GRADE
2' MIN.
STONE IS REQUIRED UP THROUGH 18" SEPARATION
SEE NOTE 1
6" MIN.
6" MIN.
#57 STONE

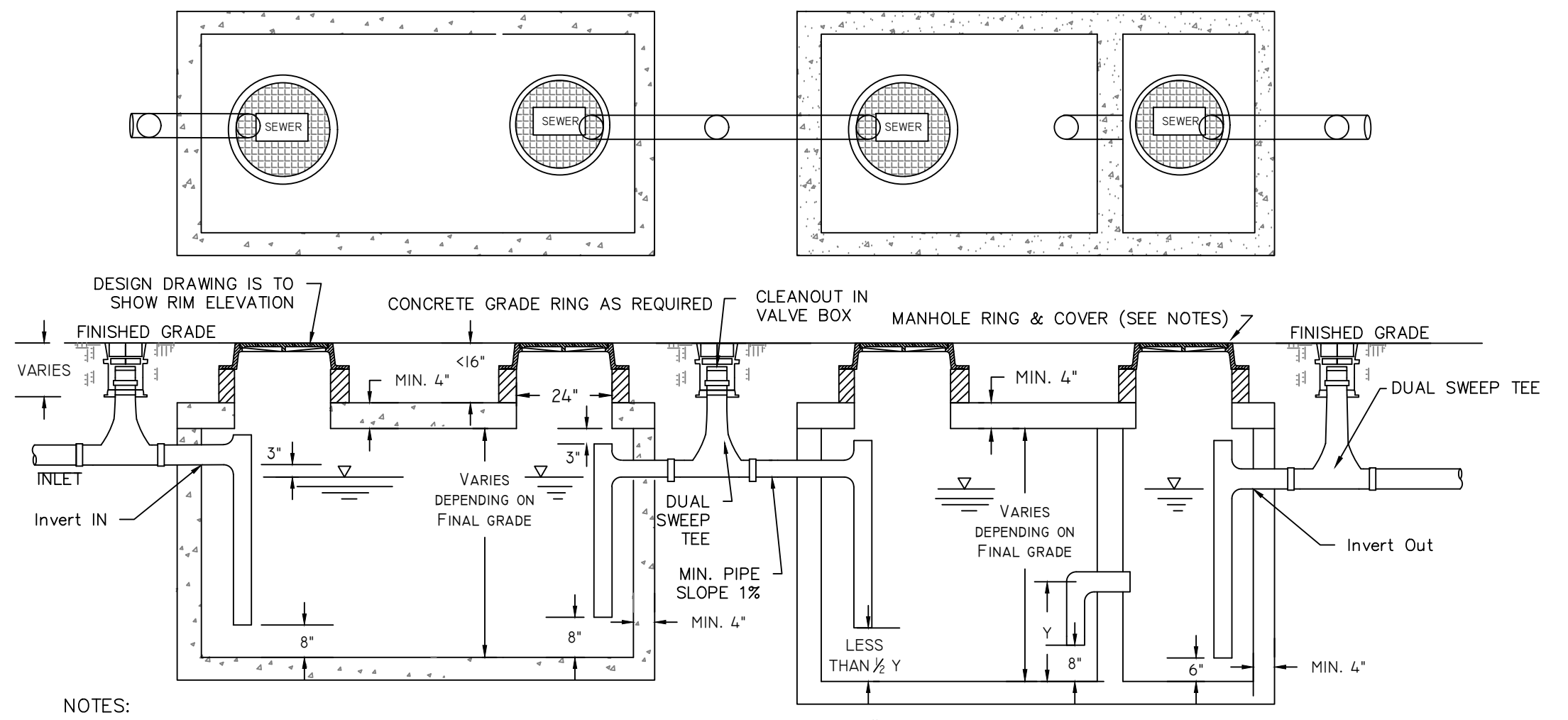
GRAVITY MAIN CRossing UNDER
STORM DRAIN / PRESSURE MAIN

NOTE:
1. SYSTEMS SHOULD NOT BE DESIGNED WITH LESS THAN 12" SEPARATION. IF LESS SEPARATION IS UNAVOIDABLE, WRITTEN AUTHORIZATION FROM BJWSA IS REQUIRED.


PVC GRAVITY LINE
6" MIN.
STONE IS REQUIRED UP THROUGH 18" SEPARATION
SEE NOTE 1
#57 STONE
2' MIN.
PRESSURE MAIN OR STORM DRAIN

GRAVITY MAIN CROSSING OVER
STORM DRAIN / PRESSURE MAIN

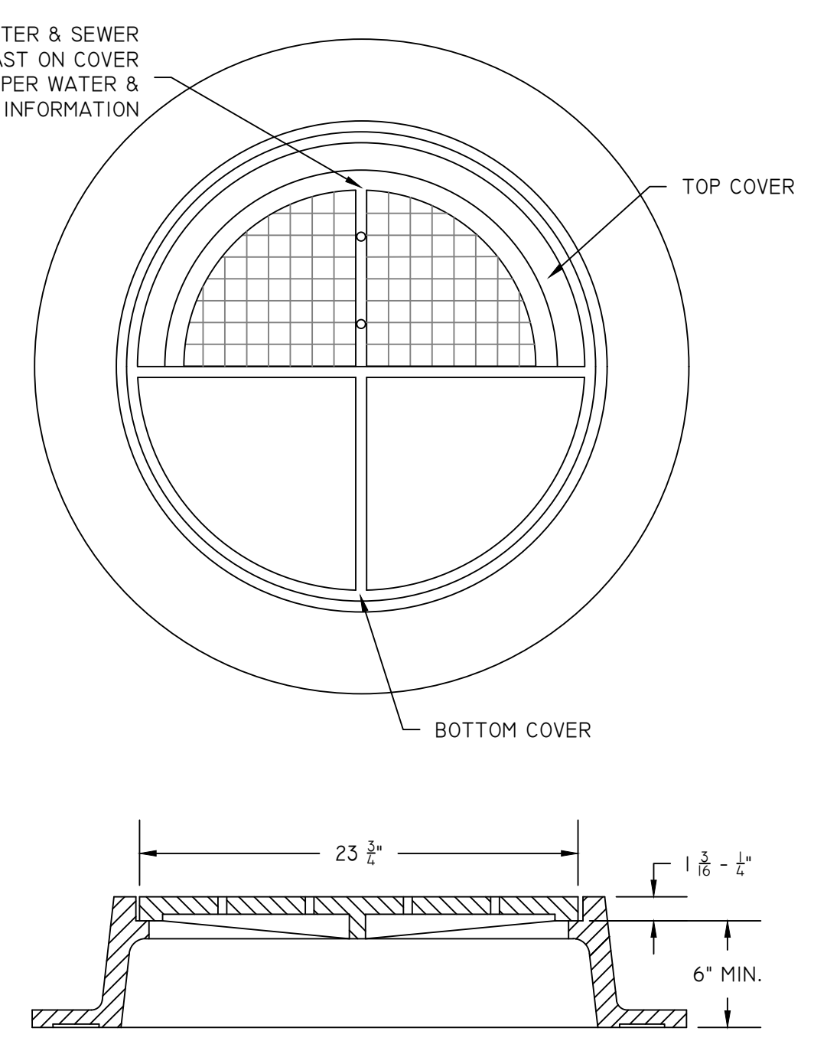
BEAUFORT–JASPER
WATER & SEWER AUTHORITY
GRAVITY MAIN CROSSING
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: S–03
SCALE: N.T.S | APPROVED BY: ERS


SEWER
SEWER
SEWER
SEWER
DESIGN DRAWING IS TO SHOW RIM ELEVATION
FINISHED GRADE
CONCRETE GRADE RING AS REQUIRED
CLEANOUT IN VALVE BOX
MANHOLE RING & COVER (SEE NOTES)
FINISHED GRADE
VARIES
<16"
MIN. 4"
24"
MIN. 4"
DUAL SWEEP TEE
INLET
Invert IN
3"
3"
VARIES DEPENDING ON FINAL GRADE
DUAL SWEEP TEE
MIN. PIPE SLOPE 1%
MIN. 4"
VARIES DEPENDING ON FINAL GRADE
Invert Out
8"
8"
LESS THAN ½ Y
Y
8"
6"
MIN. 4"

NOTES:
1. MANHOLE RING & COVER SHALL BE GAS AND WATER TIGHT PROVIDING A 22" MINIMUM CLEAR OPENING. REFER TO MANHOLE COVER AND FRAME DETAIL.
2. VOLUME OF GREASE TRAP SHALL BE BASED UPON ULTIMATE LOADING. SIZING CALCULATIONS MUST BE APPROVED BY BJWSA. MINIMUM SIZE SHALL BE 3,000 GALLONS. REFER TO SPECIFICATIONS FOR SIZING CALCULATIONS.
3. CONCRETE GRADE RINGS SHALL BE UTILIZED TO BRING COVER TO FINISHED GRADE.
4. CHIMNEY IS TO BE LESS THAN 20".
5. GREASE TRAP SHALL BE PRECAST 5, 000 PSI ONLY.
6. CLEANOUTS SHALL BE INSTALLED WITHIN 2' OF GREASE TRAP ON BOTH THE INLET AND OUTLET.
7. MINIMUM HYDRAULIC GRADIENT OF PIPE INVERT OUT OF UPSTREAM TANK AND INVERT IN OF NEXT TANK IS 1%.
8. PIPING FROM BUILDING THROUGH GREASE TRAP DISCHARGE INTO BJWSA'S SYSTEM IS TO BE 6"
9. INSTALLATION OF TRAP INTO EXISTING SYSTEM:
   ••••IF EXISTING SYSTEM IS 4" AND GREASE TRAP IS NOT MORE THAN 1,500 GALLONS, THEN 4" PIPING MAY BE USED.
   ••••IF EXISTING SYSTEM IS LESS THAN 6" AND GREASE TAP IS MORE THAN 1,500 GALLONS, PIPING SHALL BE REPLACED WITH 6" FROM UP STREAM CLEANOUT THROUGH CONNECTION WITH BJWSA'S SEWER MAIN.

BEAUFORT - JASPER
WATER & SEWER AUTHORITY
GREASE TRAP IN SERIES DETAIL
DATE 07/01/17 | DRAWN BY: TA | DRAWING #: S-04.2
SCALE: N.T.S. | APPROVED BY:

LOGO


BEAUFORT-JASPER WATER & SEWER AUTHORITY LOGO TO BE CAST ON COVER CONTACT BEAUFORT JASPER WATER & SEWER AUTHORITY FOR INFORMATION
TOP COVER
BOTTOM COVER
23 ¾"
1 3/16 - ¼"
6" MIN.

NOTES:

1. CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE, DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING OR BY SOME OTHER APPROVED METHOD UNLESS AN ALTERNATIVE SPECIFICATION IS MADE.
2. MATERIALS USED IN THE MANUFACTURE OF CASTINGS SHOULD CONFORM TO ASTM, AASHTO, ASA, MIL, AMS OR FEDERAL SPECIFICATIONS FOR GRAY IRON OR DUCTILE IRON AS FOLLOWS: GRAY IRON-ASTM CLASS 35, DUCTILE IRON-GRADE 60-40-18.
3. ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
MANHOLE, COVER AND FRAME
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: S–05
SCALE: N.T.S | APPROVED BY: ERS

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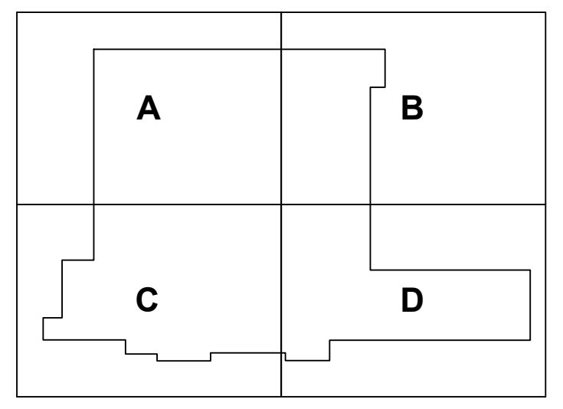
KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

INTERIM REVIEW
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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER
400501008

ABBREVIATION
BLUFFTON HOSPITAL

DRAWN BY
GFONSECA

CHECKED BY
LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
UTILITY DETAILS

SHEET NUMBER
C-703

ATTACHMENT 7

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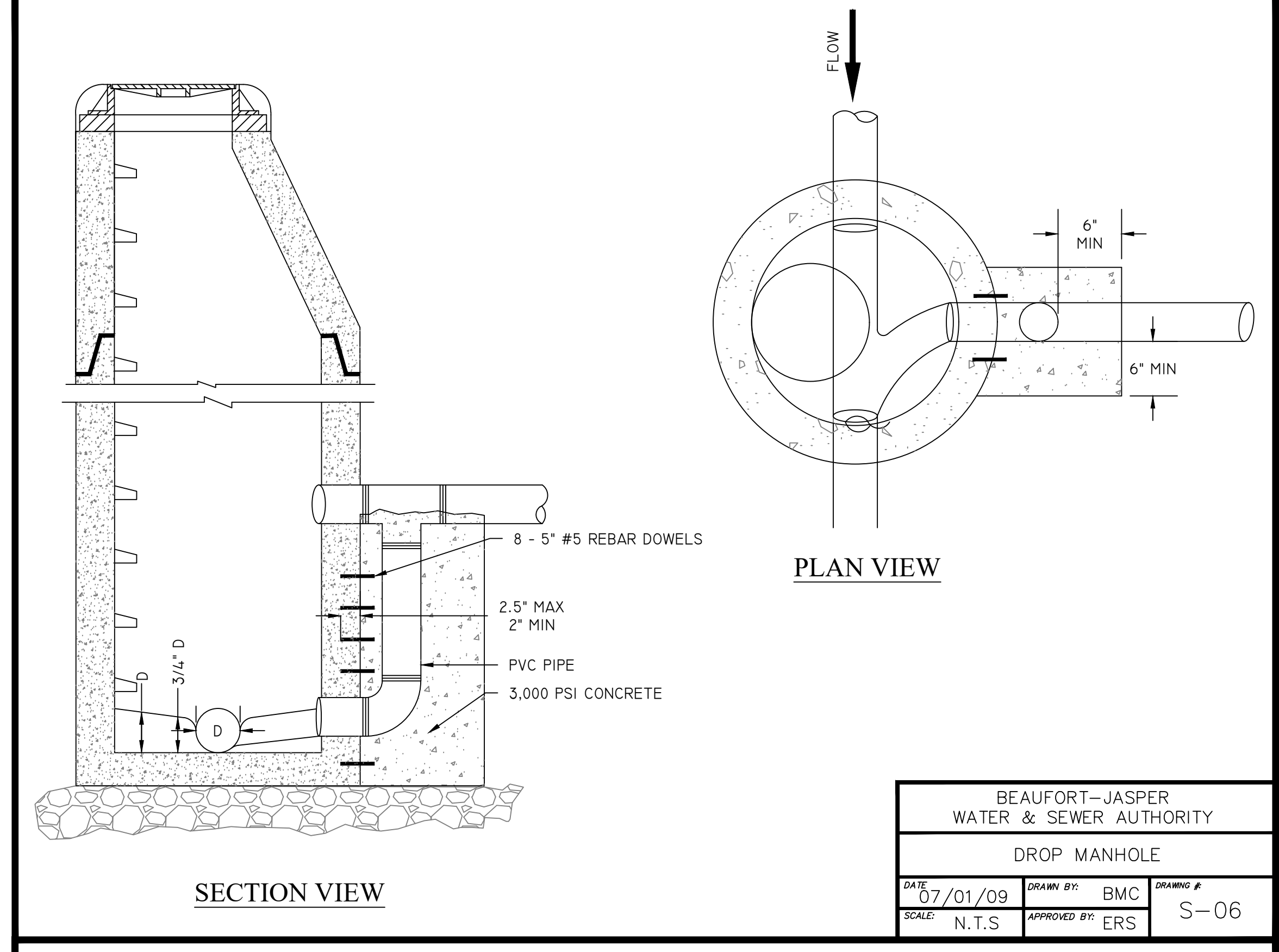
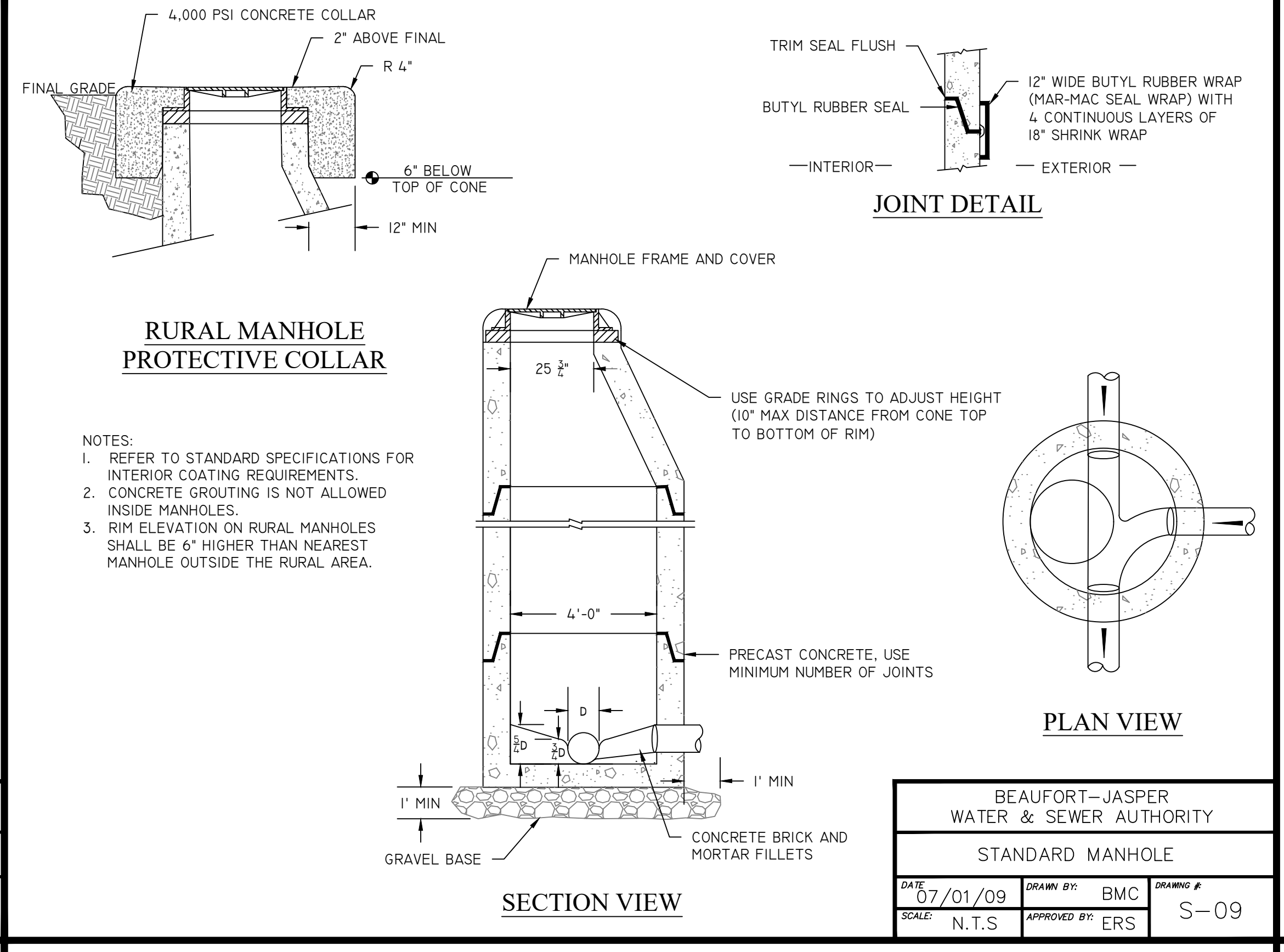

FLOW
6" MIN
6" MIN
8 - 5" #5 REBAR DOWELS
2.5" MAX
2" MIN
PVC PIPE
3,000 PSI CONCRETE
3/4" D
D
D

SECTION VIEW

PLAN VIEW

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
DROP MANHOLE
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: S–06
SCALE: N.T.S | APPROVED BY: ERS


4,000 PSI CONCRETE COLLAR
2" ABOVE FINAL
R 4"
FINAL GRADE
6" BELOW
TOP OF CONE
12" MIN
TRIM SEAL FLUSH
BUTYL RUBBER SEAL
12" WIDE BUTYL RUBBER WRAP (MAR-MAC SEAL WRAP) WITH 4 CONTINUOUS LAYERS OF 18" SHRINK WRAP
—INTERIOR—
— EXTERIOR —
MANHOLE FRAME AND COVER
25 3/4"
USE GRADE RINGS TO ADJUST HEIGHT (10" MAX DISTANCE FROM CONE TOP TO BOTTOM OF RIM)
4'-0"
PRECAST CONCRETE, USE MINIMUM NUMBER OF JOINTS
D
5/4D
3/4D
1' MIN
1' MIN
GRAVEL BASE
CONCRETE BRICK AND MORTAR FILLETS

RURAL MANHOLE PROTECTIVE COLLAR

JOINT DETAIL

NOTES:
1. REFER TO STANDARD SPECIFICATIONS FOR INTERIOR COATING REQUIREMENTS.
2. CONCRETE GROUTING IS NOT ALLOWED INSIDE MANHOLES.
3. RIM ELEVATION ON RURAL MANHOLES SHALL BE 6" HIGHER THAN NEAREST MANHOLE OUTSIDE THE RURAL AREA.

SECTION VIEW

PLAN VIEW

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
STANDARD MANHOLE
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: S–09
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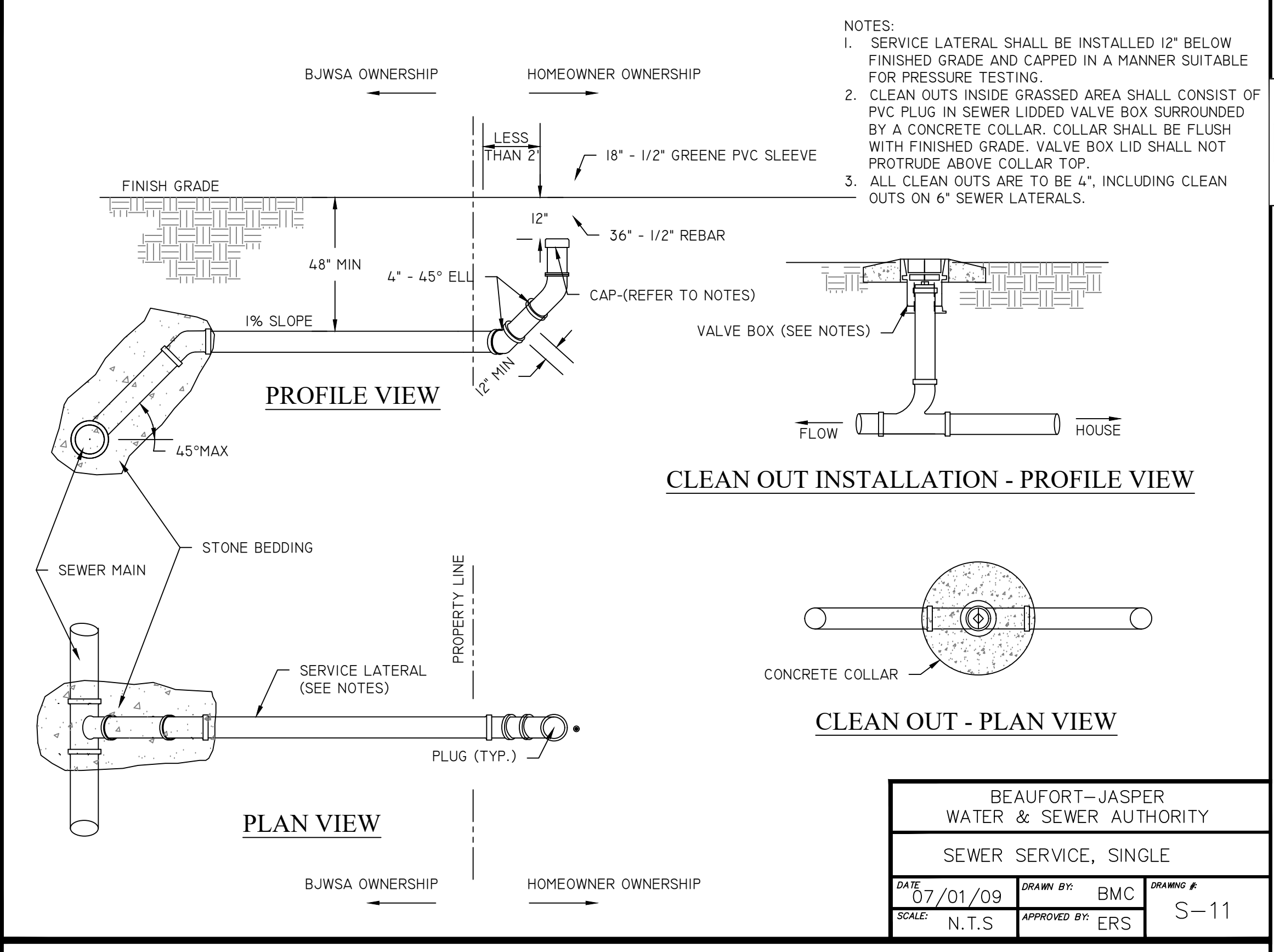

BJWSA OWNERSHIP
HOMEOWNER OWNERSHIP
LESS THAN 2'
18" - 1/2" GREENE PVC SLEEVE
FINISH GRADE
12"
36" - 1/2" REBAR
48" MIN
4" - 45° ELL
CAP-(REFER TO NOTES)
1% SLOPE
12" MIN
45°MAX
VALVE BOX (SEE NOTES)
FLOW
HOUSE
STONE BEDDING
SEWER MAIN
PROPERTY LINE
SERVICE LATERAL (SEE NOTES)
PLUG (TYP.)
CONCRETE COLLAR
BJWSA OWNERSHIP
HOMEOWNER OWNERSHIP

NOTES:
1. SERVICE LATERAL SHALL BE INSTALLED 12" BELOW FINISHED GRADE AND CAPPED IN A MANNER SUITABLE FOR PRESSURE TESTING.
2. CLEAN OUTS INSIDE GRASSED AREA SHALL CONSIST OF PVC PLUG IN SEWER LIDDED VALVE BOX SURROUNDED BY A CONCRETE COLLAR. COLLAR SHALL BE FLUSH WITH FINISHED GRADE. VALVE BOX LID SHALL NOT PROTRUDE ABOVE COLLAR TOP.
3. ALL CLEAN OUTS ARE TO BE 4", INCLUDING CLEAN OUTS ON 6" SEWER LATERALS.

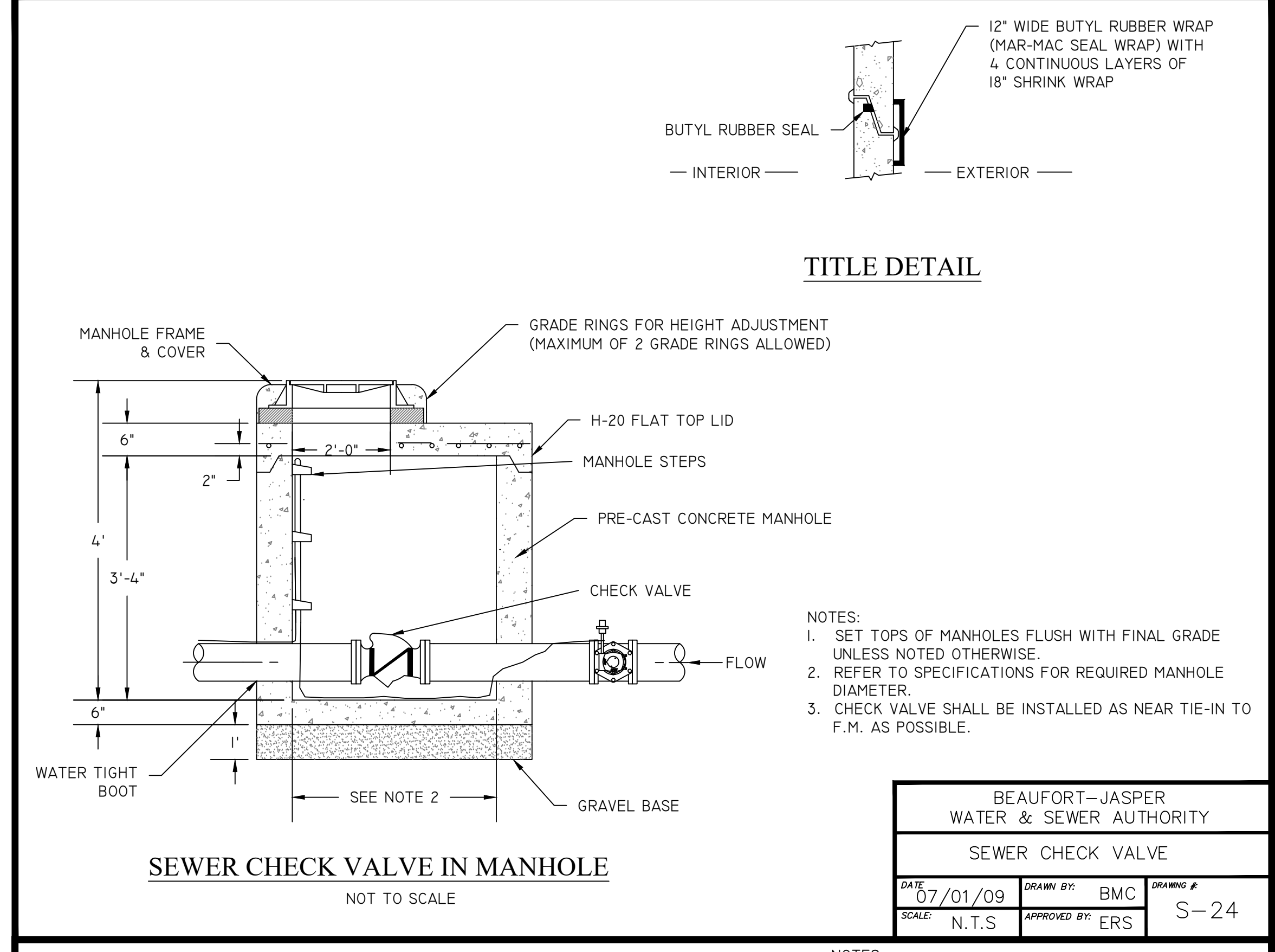
PROFILE VIEW

CLEAN OUT INSTALLATION - PROFILE VIEW

CLEAN OUT - PLAN VIEW

PLAN VIEW

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
SEWER SERVICE, SINGLE
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: S–11
SCALE: N.T.S | APPROVED BY: ERS


12" WIDE BUTYL RUBBER WRAP (MAR-MAC SEAL WRAP) WITH 4 CONTINUOUS LAYERS OF 18" SHRINK WRAP
BUTYL RUBBER SEAL
— INTERIOR —
— EXTERIOR —
MANHOLE FRAME & COVER
GRADE RINGS FOR HEIGHT ADJUSTMENT (MAXIMUM OF 2 GRADE RINGS ALLOWED)
H-20 FLAT TOP LID
6"
2'-0"
2"
MANHOLE STEPS
PRE-CAST CONCRETE MANHOLE
4'
3'-4"
CHECK VALVE
FLOW
6"
1'
WATER TIGHT BOOT
SEE NOTE 2
GRAVEL BASE

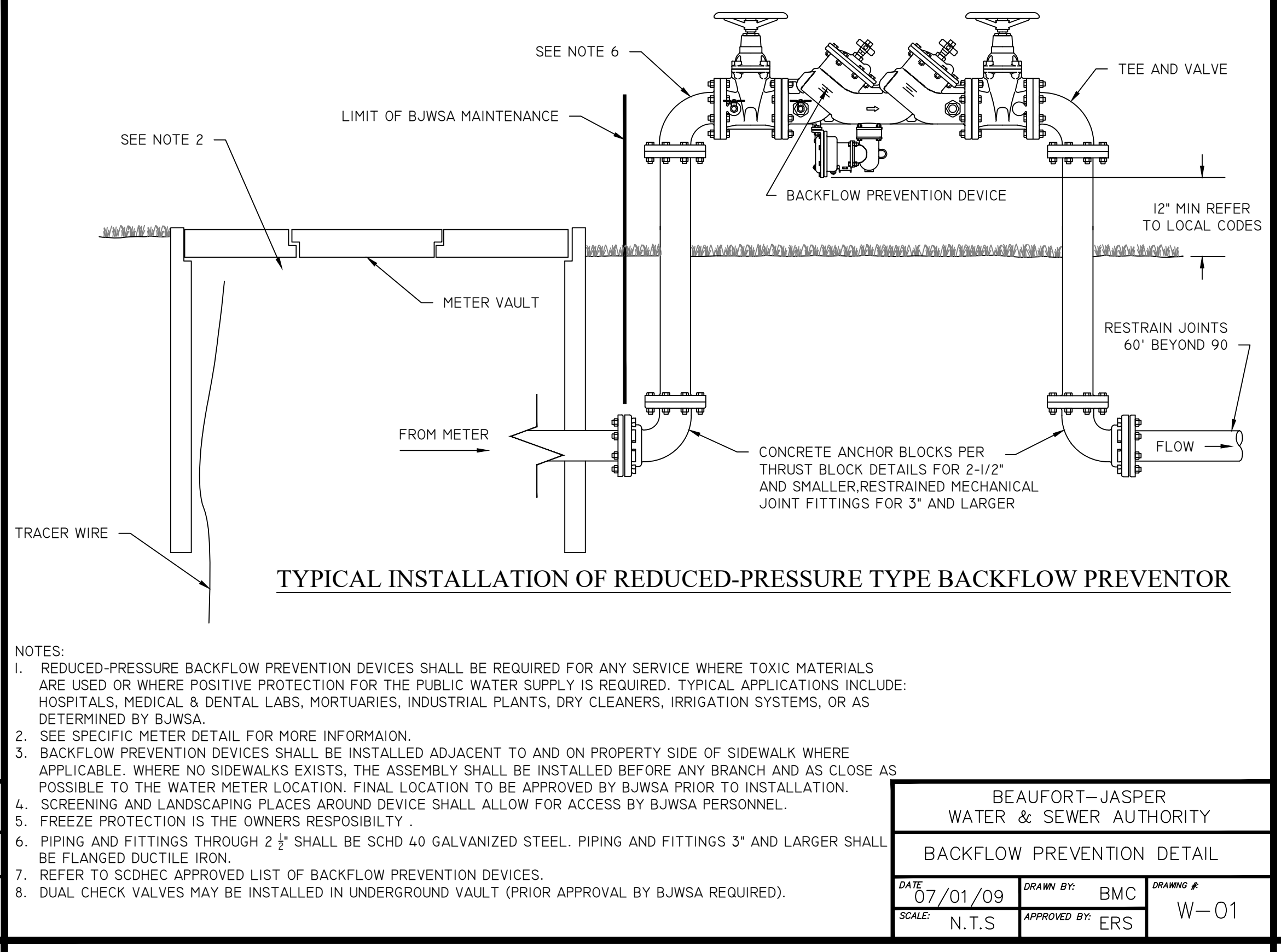
TITLE DETAIL

NOTES:
1. SET TOPS OF MANHOLES FLUSH WITH FINAL GRADE UNLESS NOTED OTHERWISE.
2. REFER TO SPECIFICATIONS FOR REQUIRED MANHOLE DIAMETER.
3. CHECK VALVE SHALL BE INSTALLED AS NEAR TIE-IN TO F.M. AS POSSIBLE.

SEWER CHECK VALVE IN MANHOLE

NOT TO SCALE

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
SEWER CHECK VALVE
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: S–24
SCALE: N.T.S | APPROVED BY: ERS


SEE NOTE 6
TEE AND VALVE
LIMIT OF BJWSA MAINTENANCE
SEE NOTE 2
BACKFLOW PREVENTION DEVICE
12" MIN REFER TO LOCAL CODES
METER VAULT
RESTRAIN JOINTS 60' BEYOND 90
FROM METER
CONCRETE ANCHOR BLOCKS PER THRUST BLOCK DETAILS FOR 2-1/2" AND SMALLER,RESTRAINED MECHANICAL JOINT FITTINGS FOR 3" AND LARGER
FLOW
TRACER WIRE

TYPICAL INSTALLATION OF REDUCED-PRESSURE TYPE BACKFLOW PREVENTOR

NOTES:
1. REDUCED-PRESSURE BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED FOR ANY SERVICE WHERE TOXIC MATERIALS ARE USED OR WHERE POSITIVE PROTECTION FOR THE PUBLIC WATER SUPPLY IS REQUIRED. TYPICAL APPLICATIONS INCLUDE: HOSPITALS, MEDICAL & DENTAL LABS, MORTUARIES, INDUSTRIAL PLANTS, DRY CLEANERS, IRRIGATION SYSTEMS, OR AS DETERMINED BY BJWSA.
2. SEE SPECIFIC METER DETAIL FOR MORE INFORMAION.
3. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED ADJACENT TO AND ON PROPERTY SIDE OF SIDEWALK WHERE APPLICABLE. WHERE NO SIDEWALKS EXISTS, THE ASSEMBLY SHALL BE INSTALLED BEFORE ANY BRANCH AND AS CLOSE AS POSSIBLE TO THE WATER METER LOCATION. FINAL LOCATION TO BE APPROVED BY BJWSA PRIOR TO INSTALLATION.
4. SCREENING AND LANDSCAPING PLACES AROUND DEVICE SHALL ALLOW FOR ACCESS BY BJWSA PERSONNEL.
5. FREEZE PROTECTION IS THE OWNERS RESPOSIBILTY .
6. PIPING AND FITTINGS THROUGH 2 1/2" SHALL BE SCHD 40 GALVANIZED STEEL. PIPING AND FITTINGS 3" AND LARGER SHALL BE FLANGED DUCTILE IRON.
7. REFER TO SCDHEC APPROVED LIST OF BACKFLOW PREVENTION DEVICES.
8. DUAL CHECK VALVES MAY BE INSTALLED IN UNDERGROUND VAULT (PRIOR APPROVAL BY BJWSA REQUIRED).

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
BACKFLOW PREVENTION DETAIL
DATE 07/01/09 | DRAWN BY: BMC | DRAWING #: W–01
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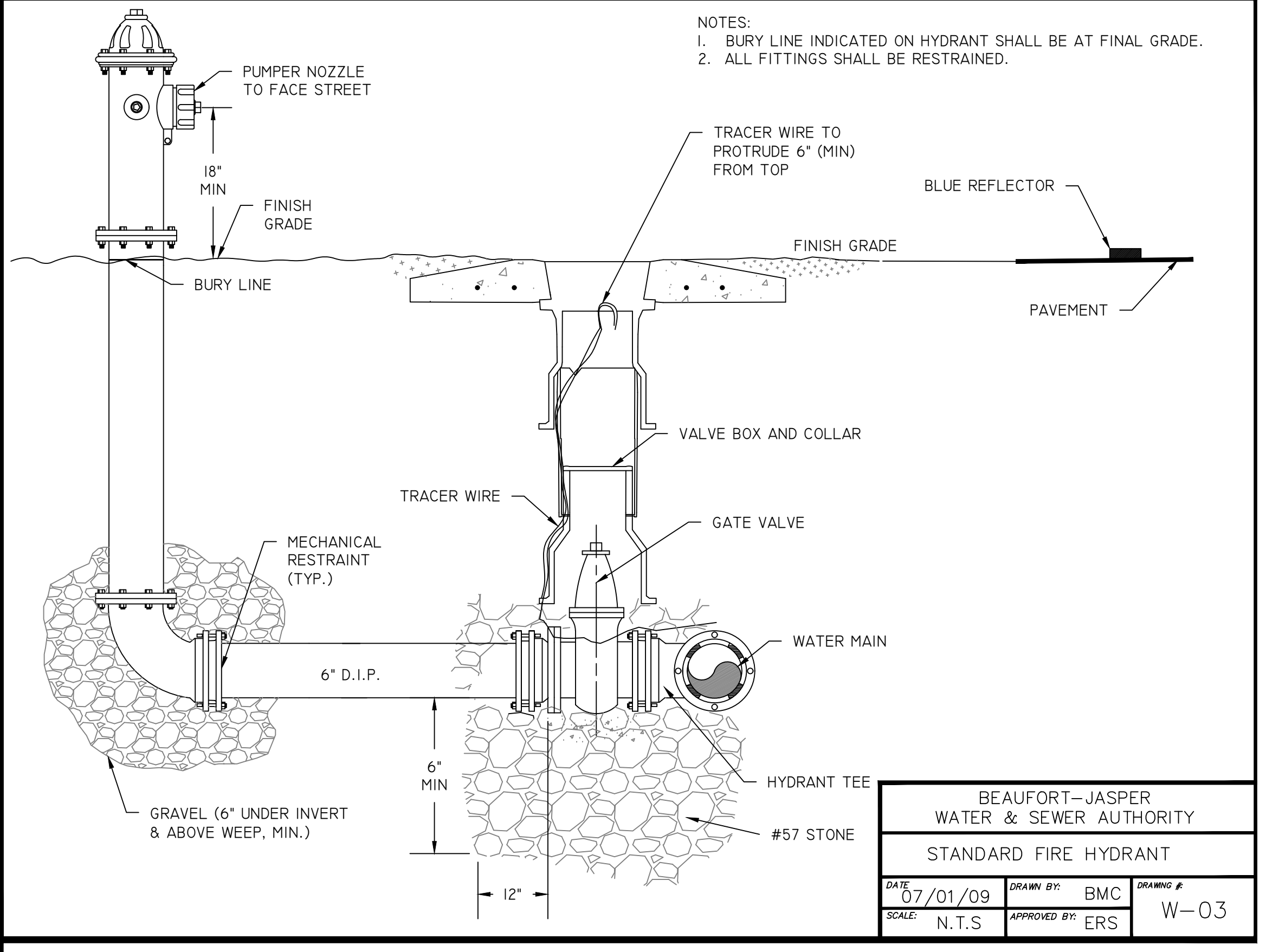
PUMPER NOZZLE TO FACE STREET
18" MIN
FINISH GRADE
BURY LINE
TRACER WIRE TO PROTRUDE 6" (MIN) FROM TOP
BLUE REFLECTOR
FINISH GRADE
PAVEMENT
VALVE BOX AND COLLAR
TRACER WIRE
GATE VALVE
MECHANICAL RESTRAINT (TYP.)
WATER MAIN
6" D.I.P.
6" MIN
HYDRANT TEE
GRAVEL (6" UNDER INVERT & ABOVE WEEP, MIN.)
#57 STONE
12"

NOTES:
1. BURY LINE INDICATED ON HYDRANT SHALL BE AT FINAL GRADE.
2. ALL FITTINGS SHALL BE RESTRAINED.

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
STANDARD FIRE HYDRANT
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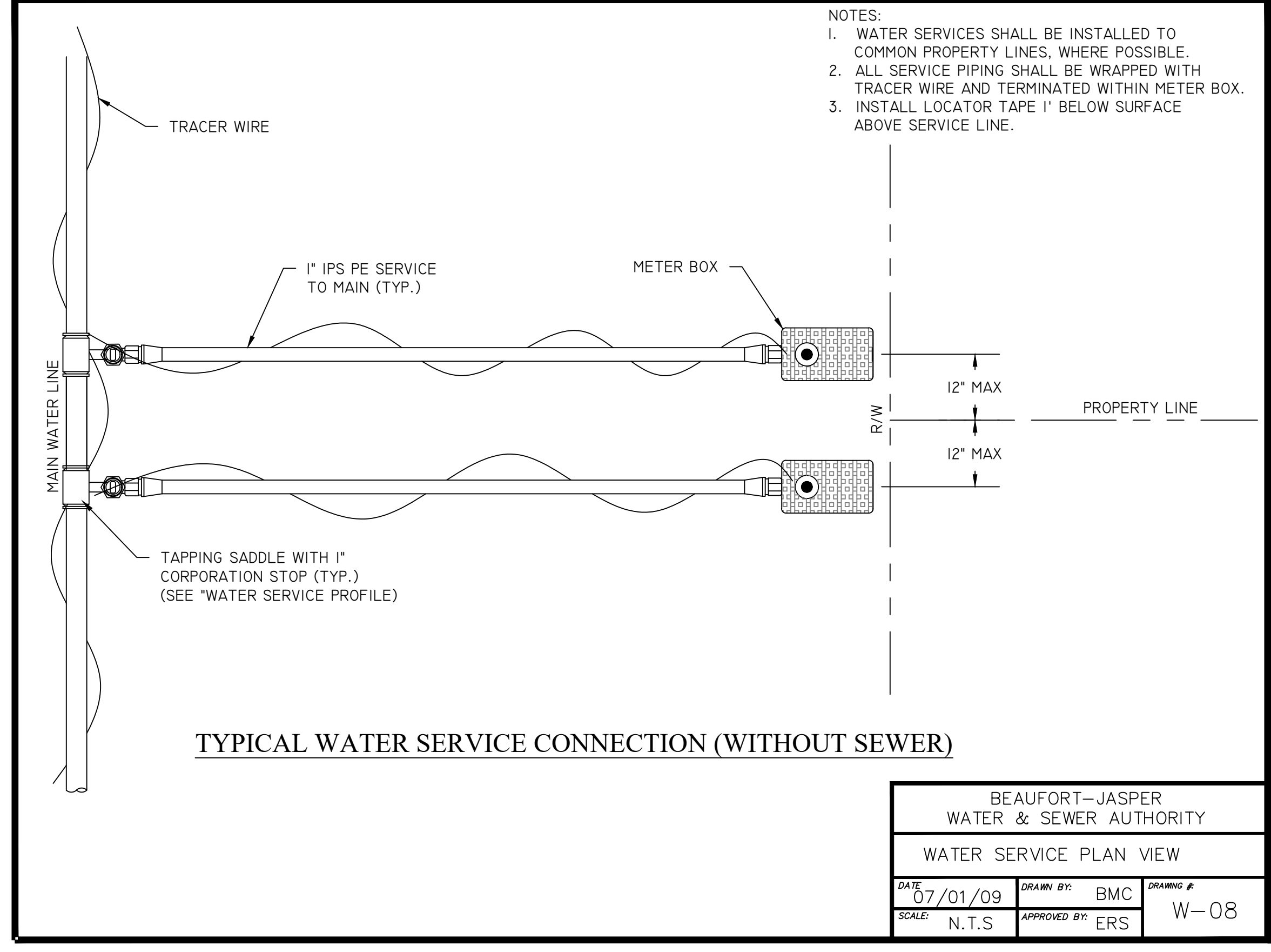
TRACER WIRE
1" IPS PE SERVICE TO MAIN (TYP.)
METER BOX
12" MAX
12" MAX
R/W
PROPERTY LINE
MAIN WATER LINE
TAPPING SADDLE WITH 1" CORPORATION STOP (TYP.) (SEE "WATER SERVICE PROFILE)

NOTES:
1. WATER SERVICES SHALL BE INSTALLED TO COMMON PROPERTY LINES, WHERE POSSIBLE.
2. ALL SERVICE PIPING SHALL BE WRAPPED WITH TRACER WIRE AND TERMINATED WITHIN METER BOX.
3. INSTALL LOCATOR TAPE 1' BELOW SURFACE ABOVE SERVICE LINE.

TYPICAL WATER SERVICE CONNECTION (WITHOUT SEWER)

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WATER & SEWER AUTHORITY
WATER SERVICE PLAN VIEW
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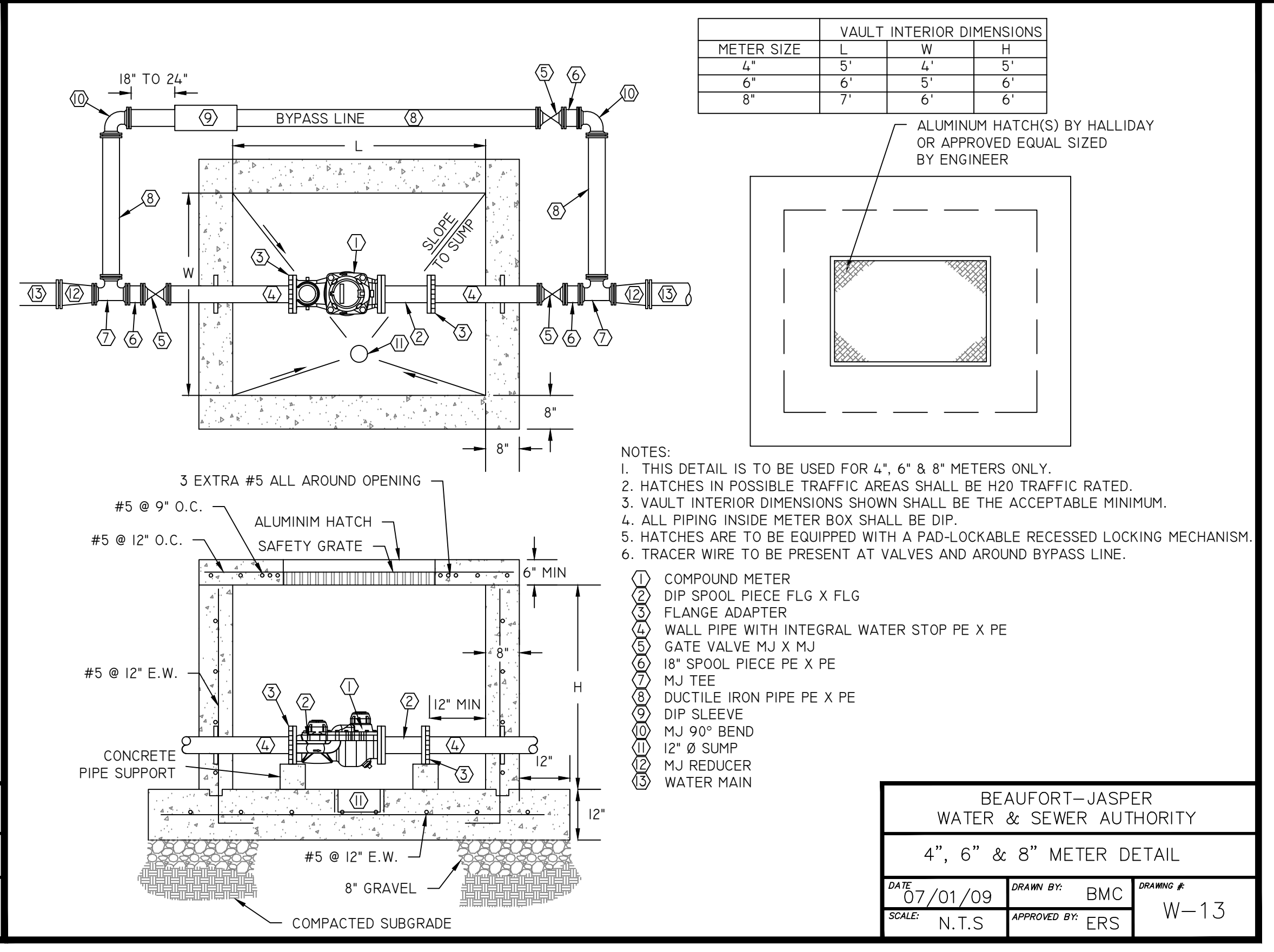
18" TO 24"
BYPASS LINE
L
W
SLOPE TO SUMP
8"
8"
ALUMINUM HATCH(S) BY HALLIDAY OR APPROVED EQUAL SIZED BY ENGINEER
3 EXTRA #5 ALL AROUND OPENING
#5 @ 9" O.C.
#5 @ 12" O.C.
ALUMINIM HATCH
SAFETY GRATE
6" MIN
8"
H
#5 @ 12" E.W.
12" MIN
12"
CONCRETE PIPE SUPPORT
12"
#5 @ 12" E.W.
8" GRAVEL
COMPACTED SUBGRADE
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬

	VAULT INTERIOR DIMENSIONS		
METER SIZE	L	W	H
4"	5'	4'	5'
6"	6'	5'	6'
8"	7'	6'	6'

NOTES:
1. THIS DETAIL IS TO BE USED FOR 4", 6" & 8" METERS ONLY.
2. HATCHES IN POSSIBLE TRAFFIC AREAS SHALL BE H20 TRAFFIC RATED.
3. VAULT INTERIOR DIMENSIONS SHOWN SHALL BE THE ACCEPTABLE MINIMUM.
4. ALL PIPING INSIDE METER BOX SHALL BE DIP.
5. HATCHES ARE TO BE EQUIPPED WITH A PAD-LOCKABLE RECESSED LOCKING MECHANISM.
6. TRACER WIRE TO BE PRESENT AT VALVES AND AROUND BYPASS LINE.

① COMPOUND METER
② DIP SPOOL PIECE FLG X FLG
③ FLANGE ADAPTER
④ WALL PIPE WITH INTEGRAL WATER STOP PE X PE
⑤ GATE VALVE MJ X MJ
⑥ 18" SPOOL PIECE PE X PE
⑦ MJ TEE
⑧ DUCTILE IRON PIPE PE X PE
⑨ DIP SLEEVE
⑩ MJ 90° BEND
⑪ 12" Ø SUMP
⑫ MJ REDUCER
⑬ WATER MAIN

BEAUFORT–JASPER
WATER & SEWER AUTHORITY
4", 6" & 8" METER DETAIL
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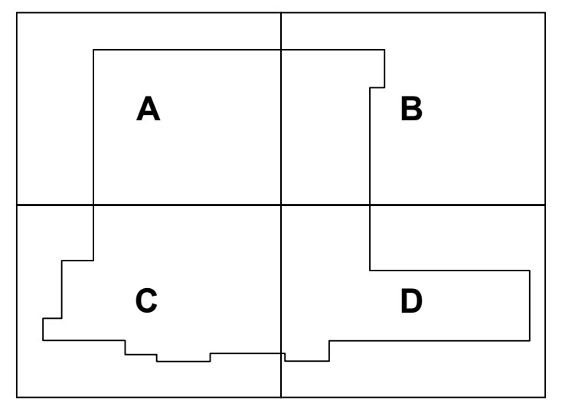

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REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER
400501008

ABBREVIATION
BLUFFTON HOSPITAL

DRAWN BY
GFONSECA

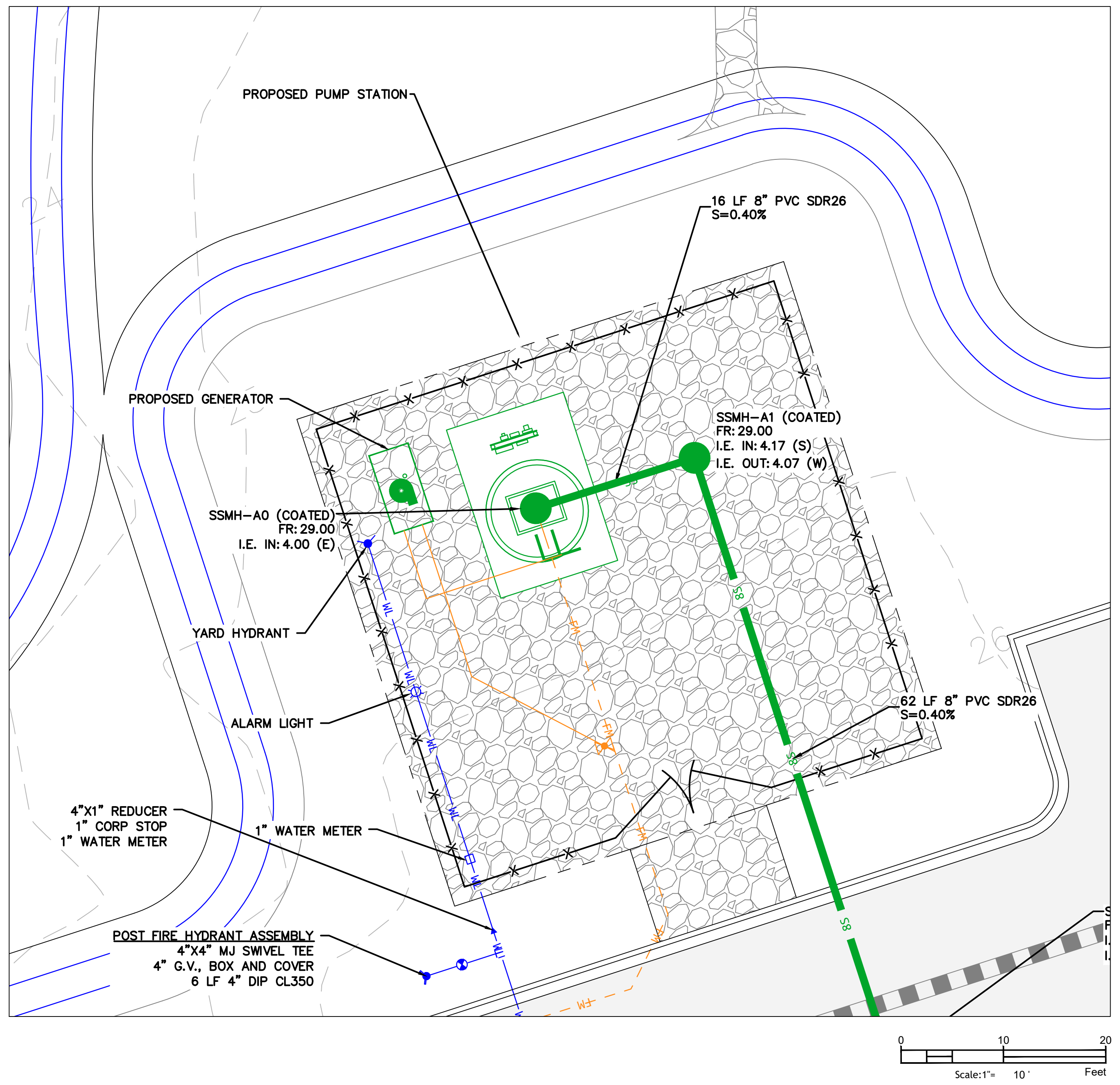
CHECKED BY
LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
UTILITY DETAILS

SHEET NUMBER
C-704

ATTACHMENT 7


PROPOSED PUMP STATION
16 LF 8" PVC SDR26 S=0.40%
PROPOSED GENERATOR
SSMH–A0 (COATED) FR: 29.00 I.E. IN: 4.00 (E)
SSMH–A1 (COATED) FR: 29.00 I.E. IN: 4.17 (S) I.E. OUT: 4.07 (W)
YARD HYDRANT
ALARM LIGHT
62 LF 8" PVC SDR26 S=0.40%
4"X1" REDUCER
1" CORP STOP
1" WATER METER
1" WATER METER
POST FIRE HYDRANT ASSEMBLY
4"X4" MJ SWIVEL TEE
4" G.V., BOX AND COVER
6 LF 4" DIP CL350
0
10
20
Scale:1"= 10'
Feet

WET WELL DESIGN SCHEDULE

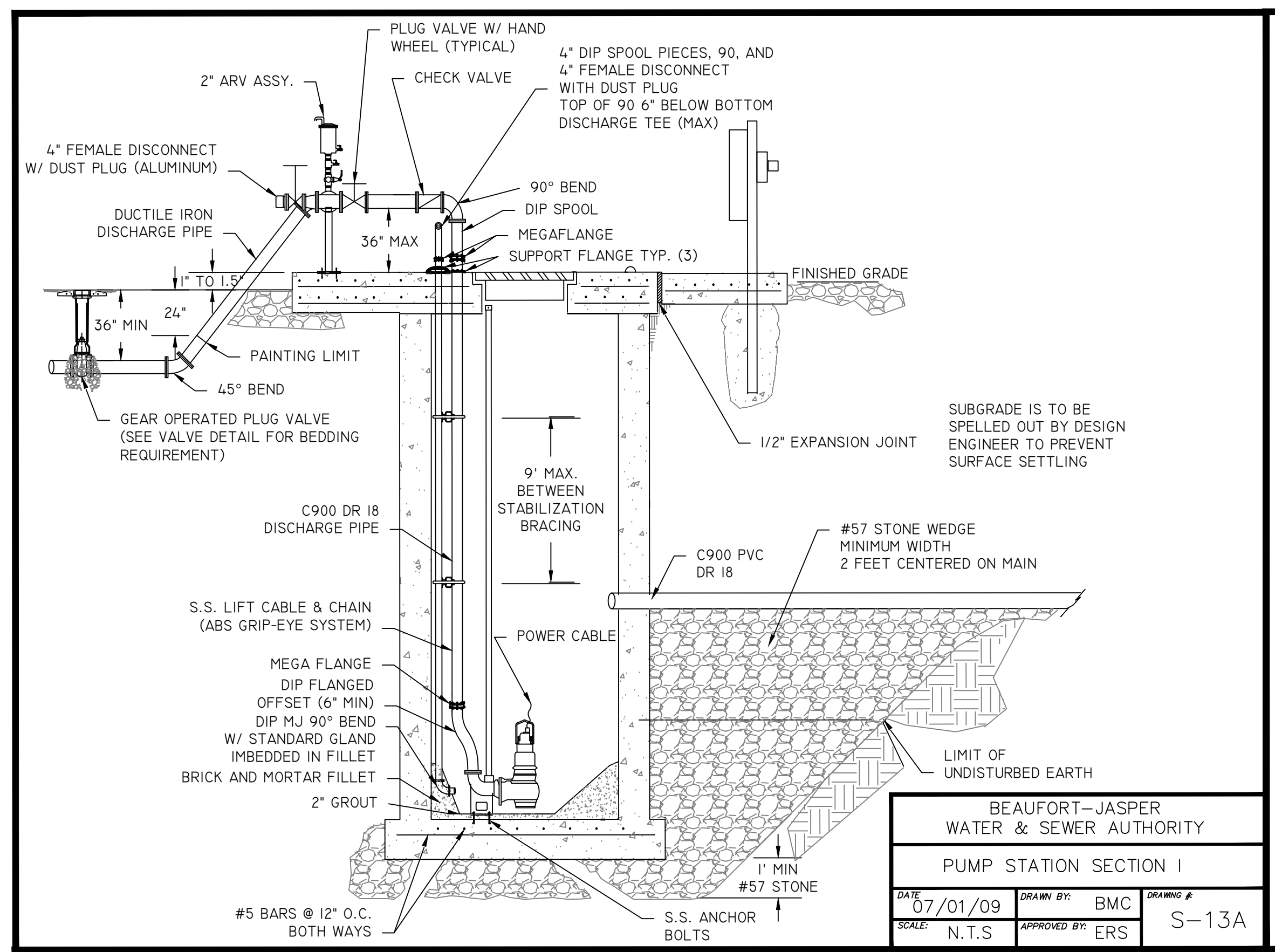
DESCRIPTION	ELEVATIONS (FT)
TOP ELEV.	29.00'
INFLUENT ELEV.	4.00'
H.W. ALARM ELEV.	3.50'
START LAG PUMP	2.50'
START LEAD PUMP	1.50'
L.W.L.–STOPS PUMPS	0.00'
L.W. ALARM ELEV.	–1.00'
BOTTOM ELEV.	–4.75'
WET WELL DIA.	10'

PIPE AND VALVE SCHEDULE

DESCRIPTION	SIZE
DISCHARGE PIPE	6"
PLUG VALVE	6"
CHECK VALVE	6"
45 DEG. BEND	6"

PUMP DESIGN SCHEDULE

DESCRIPTION	PUMP
SELECTED PUMP	XFP 101G CB1 60HZ
T–D–H (FT)	106
PUMP CAP.(GPM)	394
RPM	3,560
PHASE	2
VOLTAGE	460 V (VOLTAGE TO BE CONFIRMED W/DOMINION)
MIN. HP	24.8 HP
MOTOR MODEL	PE 185/2


PLUG VALVE W/ HAND WHEEL (TYPICAL)
2" ARV ASSY.
CHECK VALVE
4" DIP SPOOL PIECES, 90, AND 4" FEMALE DISCONNECT WITH DUST PLUG TOP OF 90 6" BELOW BOTTOM DISCHARGE TEE (MAX)
4" FEMALE DISCONNECT W/ DUST PLUG (ALUMINUM)
DUCTILE IRON DISCHARGE PIPE
36" MAX
90° BEND
DIP SPOOL
MEGAFLANGE
SUPPORT FLANGE TYP. (3)
FINISHED GRADE
36" MIN
PAINTING LIMIT
45° BEND
GEAR OPERATED PLUG VALVE (SEE VALVE DETAIL FOR BEDDING REQUIREMENT)
1/2" EXPANSION JOINT
SUBGRADE IS TO BE SPELLED OUT BY DESIGN ENGINEER TO PREVENT SURFACE SETTLING
9' MAX. BETWEEN STABILIZATION BRACING
C900 DR 18 DISCHARGE PIPE
#57 STONE WEDGE MINIMUM WIDTH 2 FEET CENTERED ON MAIN
C900 PVC DR 18
S.S. LIFT CABLE & CHAIN (ABS GRIP-EYE SYSTEM)
POWER CABLE
MEGA FLANGE
DIP FLANGED OFFSET (6" MIN)
DIP MJ 90° BEND W/ STANDARD GLAND IMBEDDED IN FILLET
BRICK AND MORTAR FILLET
2" GROUT
LIMIT OF UNDISTURBED EARTH
1' MIN #57 STONE
#5 BARS @ 12" O.C. BOTH WAYS
S.S. ANCHOR BOLTS

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PUMP STATION SECTION I

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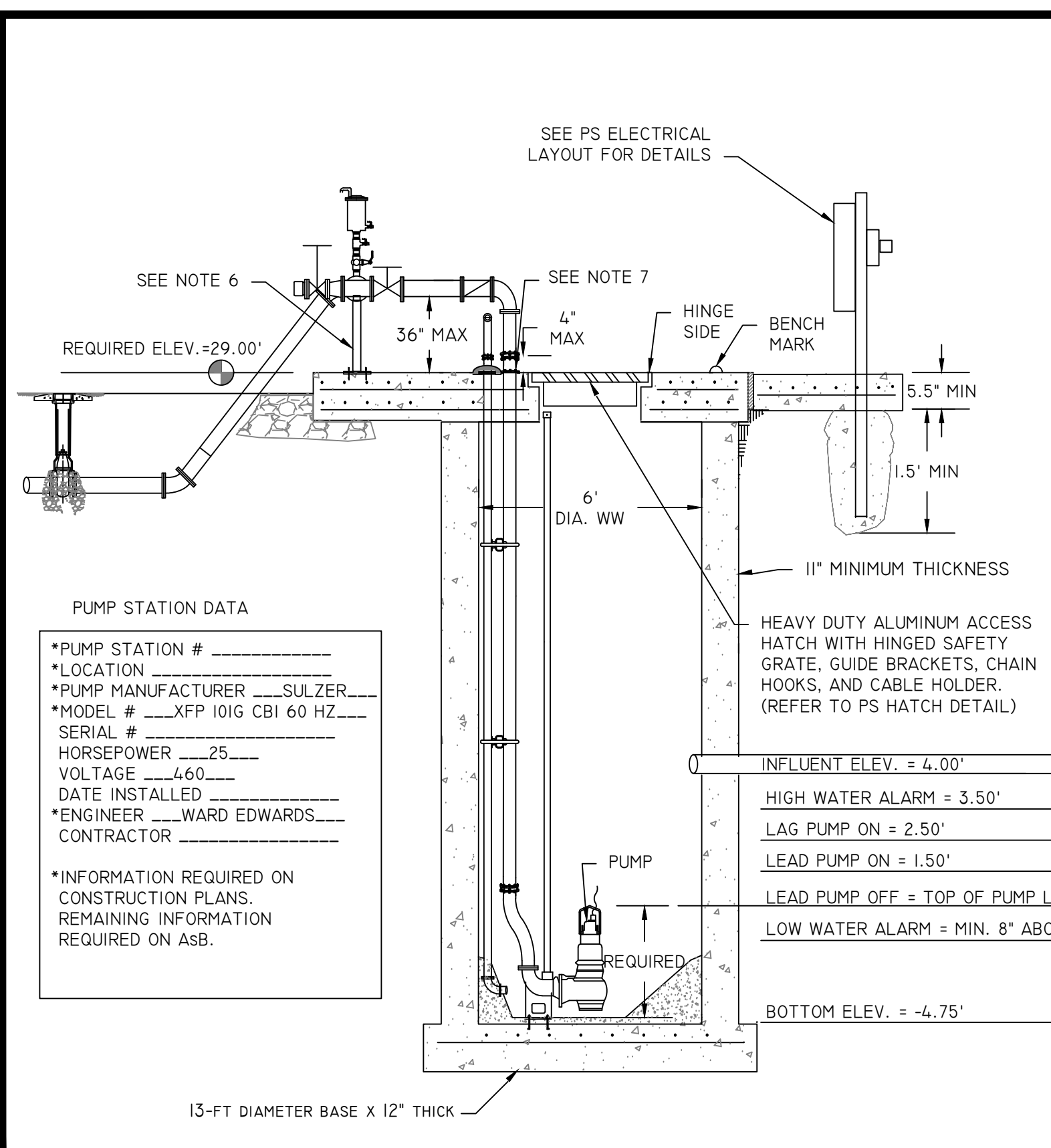
SEE PS ELECTRICAL LAYOUT FOR DETAILS
SEE NOTE 6
SEE NOTE 7
REQUIRED ELEV.=29.00'
36" MAX
4" MAX
HINGE SIDE
BENCH MARK
5.5" MIN
1.5' MIN
6' DIA. WW
11" MINIMUM THICKNESS
HEAVY DUTY ALUMINUM ACCESS HATCH WITH HINGED SAFETY GRATE, GUIDE BRACKETS, CHAIN HOOKS, AND CABLE HOLDER. (REFER TO PS HATCH DETAIL)
INFLUENT ELEV. = 4.00'
HIGH WATER ALARM = 3.50'
LAG PUMP ON = 2.50'
LEAD PUMP ON = 1.50'
LEAD PUMP OFF = TOP OF PUMP LIFTING EYE = 0.00'
LOW WATER ALARM = MIN. 8" ABOVE PUMP SUBMERGENCE = -1.00'
PUMP
BOTTOM ELEV. = -4.75'
13-FT DIAMETER BASE X 12" THICK

PUMP STATION DATA

*PUMP STATION # ____________
*LOCATION ____________________
*PUMP MANUFACTURER ___SULZER___
*MODEL # ___XFP 101G CB1 60 HZ___
SERIAL # ____________________
HORSEPOWER ___25___
VOLTAGE ___460___
DATE INSTALLED ______________
*ENGINEER ___WARD EDWARDS___
CONTRACTOR _________________

*INFORMATION REQUIRED ON CONSTRUCTION PLANS. REMAINING INFORMATION REQUIRED ON AsB.

NOTES:
1. ALL WETWELL PIPING SHALL BE ONE SOLID PIECE OF FUSIBLE C900 PVC, WITH NO JOINTS.
2. ALL BOLTS, GUIDE RAILS, BRACKETS, HANGERS, AND LIFTING APPURTENANCES INSIDE WET WELL SHALL BE 316 STAINLESS STEEL.
3. DISCHARGE AND VENT PIPING PENETRATIONS SHALL BE SEALED WITH SS LINK SEALS.
4. WETWELL INTERIOR AND DISCHARGE PIPING SHALL BE COATED WITH HYDROGEN SULFIDE RESISTANT COATING. (SEE SPECIFICATIONS FOR REQUIREMENTS)
5. EXTERIOR PIPING SHALL BE PAINTED. (SEE SPECIFICATIONS FOR REQUIREMENTS)
6. PROVIDE ADJUSTABLE SUPPORT TO ABOVE GROUND PIPING AT THIS POINT. FURNISH SUBMITTAL FOR APPROVAL ON PROPOSED SUPPORT PRIOR TO PROCEEDING.
7. PROTECT EXPOSED PVC FROM UV DETERIORATION SUBMIT ON PROPOSED METHOD.
8. ALL THROUGH TOP PIPING SUPPORTED ON WW TOP BY UNIFLANGES.
10. ATTACH FLOAT CABLES & BUBBLER SUPPORT CABLE TO SAFETY GRATE. ATTACHMENTS AWAY FROM THE HINGE SHALL BE IN THE FOLLOWING ORDER:
    AIR TUBING SUPPORT
    OFF PUMP
    ON PUMP
    ALARM (HIGH)

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PUMP STATION SECTION II

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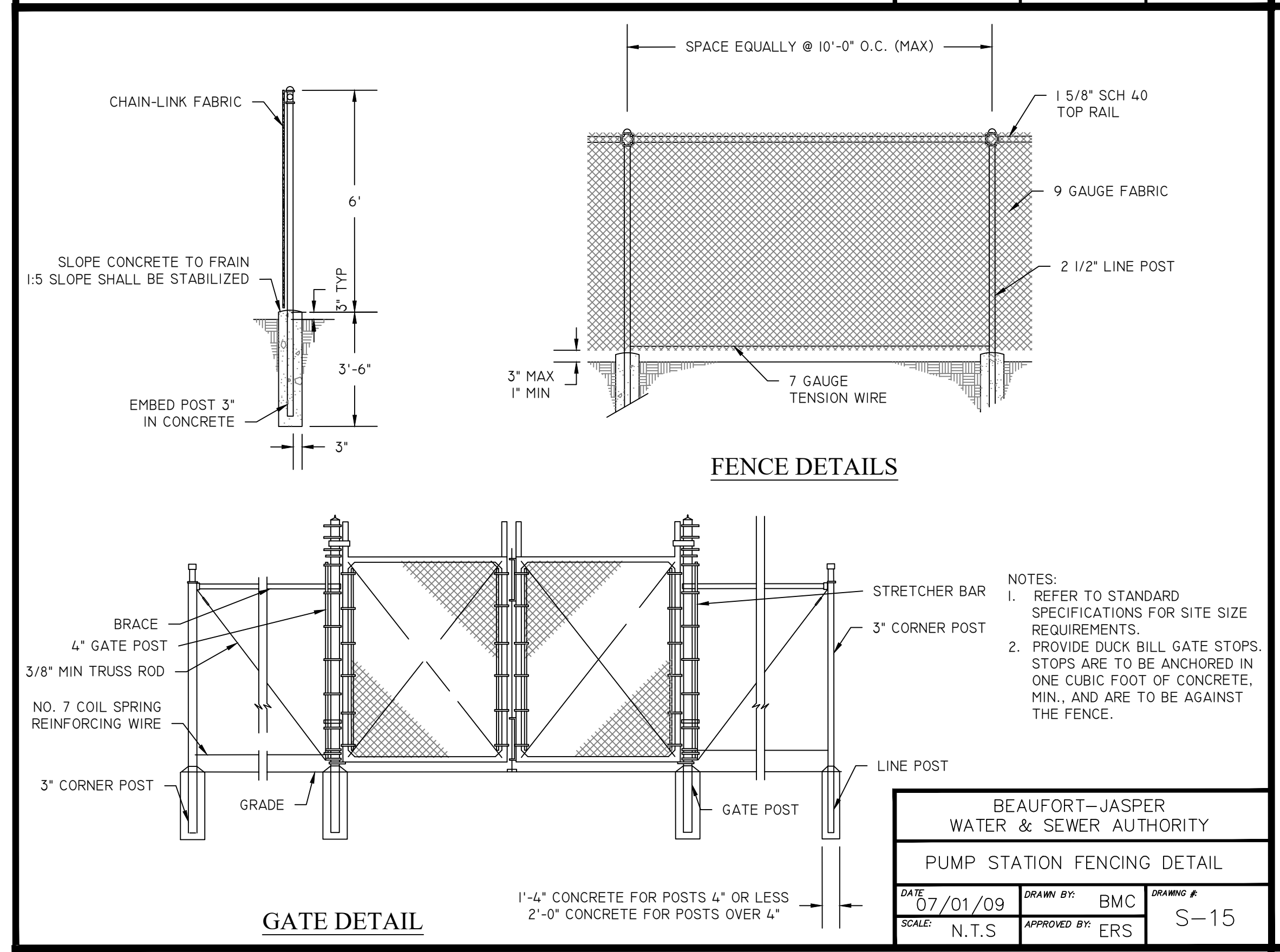
SPACE EQUALLY @ 10'-0" O.C. (MAX)
CHAIN-LINK FABRIC
1 5/8" SCH 40 TOP RAIL
9 GAUGE FABRIC
2 1/2" LINE POST
SLOPE CONCRETE TO FRAIN 1:5 SLOPE SHALL BE STABILIZED
6'
TYP.
3'-6"
3" MAX 1" MIN
7 GAUGE TENSION WIRE
EMBED POST 3" IN CONCRETE
3'
FENCE DETAILS
BRACE
4" GATE POST
3/8" MIN TRUSS ROD
NO. 7 COIL SPRING REINFORCING WIRE
3" CORNER POST
GRADE
STRETCHER BAR
3" CORNER POST
LINE POST
GATE POST
GATE DETAIL
1'-4" CONCRETE FOR POSTS 4" OR LESS
2'-0" CONCRETE FOR POSTS OVER 4"

NOTES:
1. REFER TO STANDARD SPECIFICATIONS FOR SITE SIZE REQUIREMENTS.
2. PROVIDE DUCK BILL GATE STOPS. STOPS ARE TO BE ANCHORED IN ONE CUBIC FOOT OF CONCRETE, MIN., AND ARE TO BE AGAINST THE FENCE.

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PUMP STATION FENCING DETAIL

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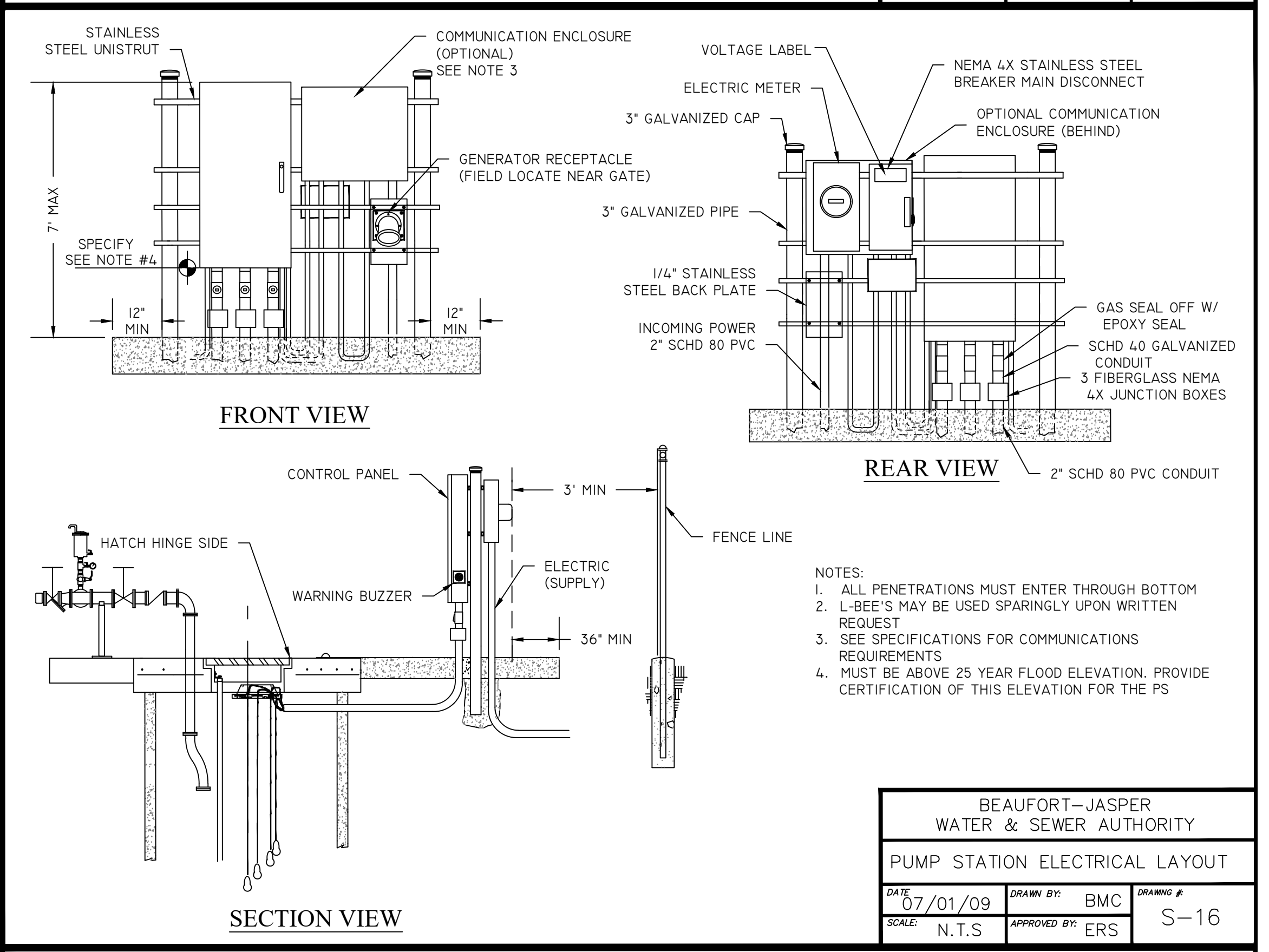
STAINLESS STEEL UNISTRUT
COMMUNICATION ENCLOSURE (OPTIONAL) SEE NOTE 3
VOLTAGE LABEL
ELECTRIC METER
NEMA 4X STAINLESS STEEL BREAKER MAIN DISCONNECT
3" GALVANIZED CAP
OPTIONAL COMMUNICATION ENCLOSURE (BEHIND)
7' MAX
GENERATOR RECEPTACLE (FIELD LOCATE NEAR GATE)
3" GALVANIZED PIPE
SPECIFY SEE NOTE #4
1/4" STAINLESS STEEL BACK PLATE
INCOMING POWER 2" SCHD 80 PVC
12" MIN
GAS SEAL OFF W/ EPOXY SEAL
SCHD 40 GALVANIZED CONDUIT
3 FIBERGLASS NEMA 4X JUNCTION BOXES
FRONT VIEW
REAR VIEW
2" SCHD 80 PVC CONDUIT
CONTROL PANEL
3' MIN
HATCH HINGE SIDE
ELECTRIC (SUPPLY)
WARNING BUZZER
36" MIN
FENCE LINE
SECTION VIEW

NOTES:
1. ALL PENETRATIONS MUST ENTER THROUGH BOTTOM
2. L-BEE'S MAY BE USED SPARINGLY UPON WRITTEN REQUEST
3. SEE SPECIFICATIONS FOR COMMUNICATIONS REQUIREMENTS
4. MUST BE ABOVE 25 YEAR FLOOD ELEVATION. PROVIDE CERTIFICATION OF THIS ELEVATION FOR THE PS

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PUMP STATION ELECTRICAL LAYOUT

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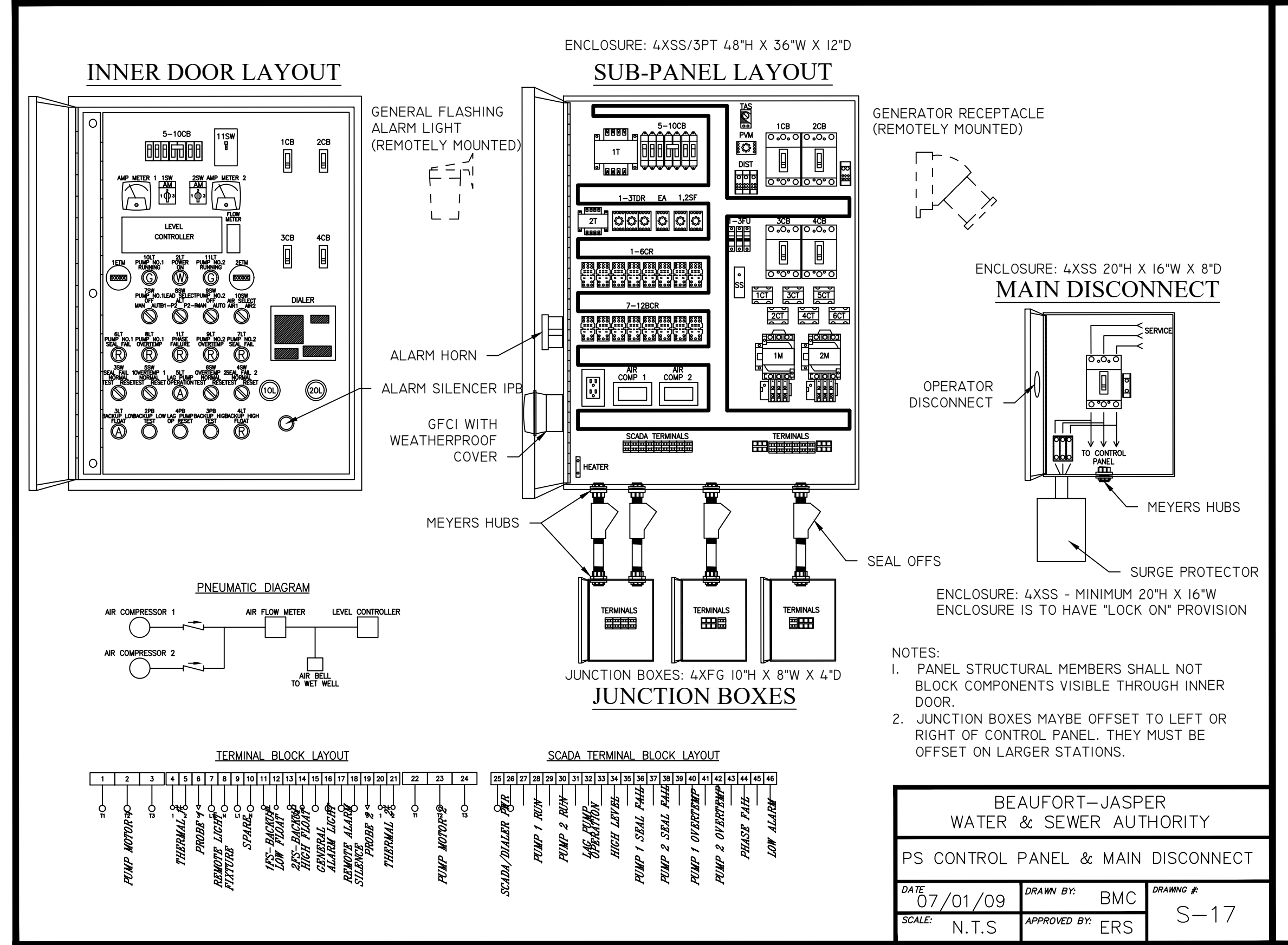
INNER DOOR LAYOUT
ENCLOSURE: 4XSS/3PT 48"H X 36"W X 12"D
SUB-PANEL LAYOUT
GENERAL FLASHING ALARM LIGHT (REMOTELY MOUNTED)
GENERATOR RECEPTACLE (REMOTELY MOUNTED)
ENCLOSURE: 4XSS 20"H X 16"W X 8"D
MAIN DISCONNECT
ALARM HORN
ALARM SILENCER (PB)
GFCI WITH WEATHERPROOF COVER
OPERATOR DISCONNECT
MEYERS HUBS
SEAL OFFS
TO CONTROL PANEL
MEYERS HUBS
SURGE PROTECTOR
PNEUMATIC DIAGRAM
JUNCTION BOXES: 4XFG 10"H X 8"W X 4"D
JUNCTION BOXES
TERMINALS
TERMINAL BLOCK LAYOUT
SCADA TERMINAL BLOCK LAYOUT
LOW ALARM

ENCLOSURE: 4XSS - MINIMUM 20"H X 16"W
ENCLOSURE IS TO HAVE "LOCK ON" PROVISION

NOTES:
1. PANEL STRUCTURAL MEMBERS SHALL NOT BLOCK COMPONENTS VISIBLE THROUGH INNER DOOR.
2. JUNCTION BOXES MAYBE OFFSET TO LEFT OR RIGHT OF CONTROL PANEL. THEY MUST BE OFFSET ON LARGER STATIONS.

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PS CONTROL PANEL & MAIN DISCONNECT

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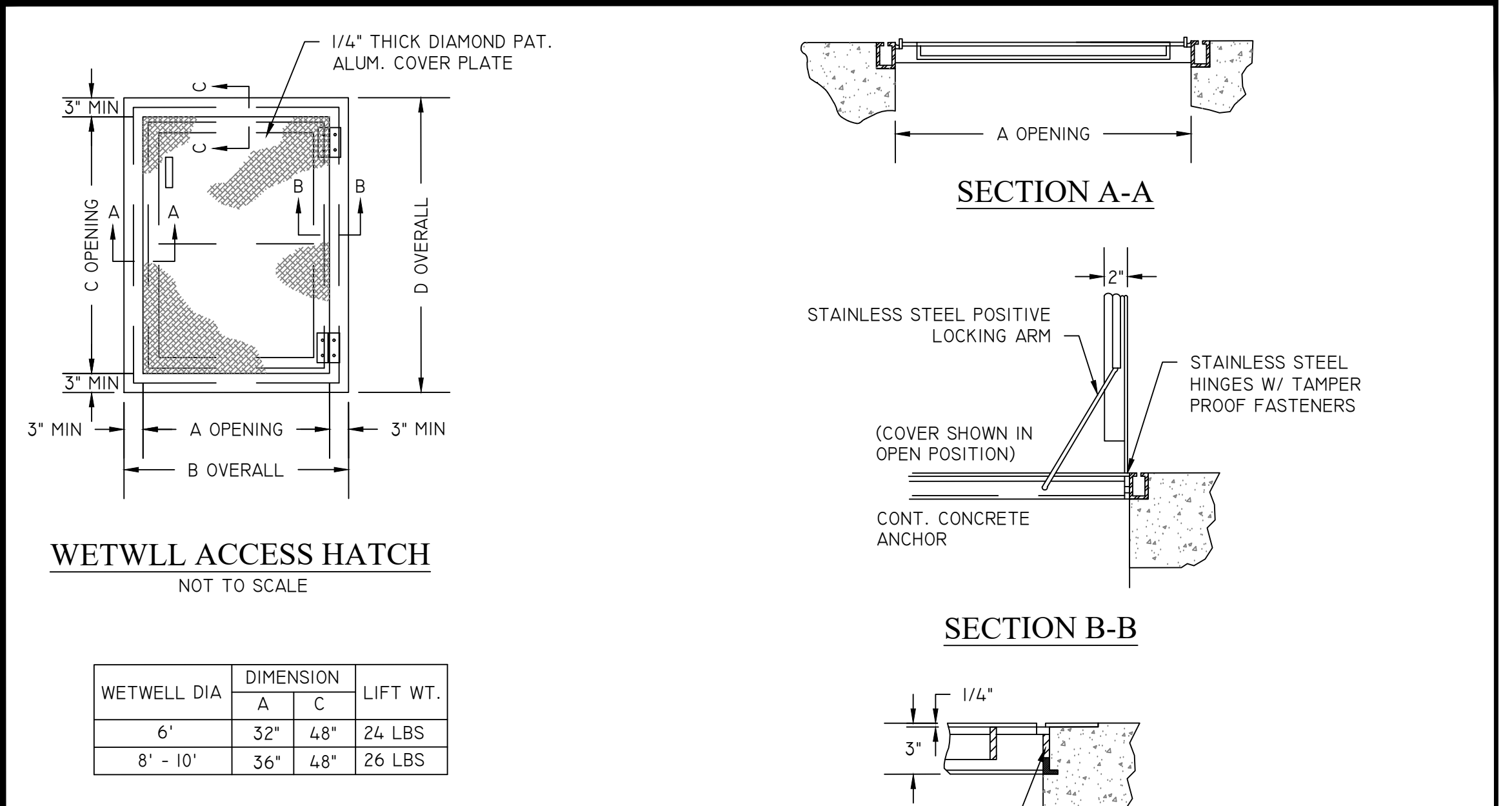
1/4" THICK DIAMOND PAT. ALUM. COVER PLATE
3" MIN
C OPENING
D OVERALL
A OPENING
B OVERALL
WETWELL ACCESS HATCH
NOT TO SCALE
A OPENING
SECTION A-A
STAINLESS STEEL POSITIVE LOCKING ARM
STAINLESS STEEL HINGES W/ TAMPER PROOF FASTENERS
(COVER SHOWN IN OPEN POSITION)
CONT. CONCRETE ANCHOR
SECTION B-B
1/4"
3"
1/4" THICK EXTRUDED ALUM. FRAME
SECTION C-C

WETWELL DIA	DIMENSION		LIFT WT.
	A	C	
6'	32"	48"	24 LBS
8' - 10'	36"	48"	26 LBS

NOTES:
1. ALL HATCHES SHALL BE EQUIPPED WITH A SAFETY GRATE. DIMENSIONS "A" & "C" SHALL INCLUDE ANY RESTRICTION IMPOSED BY SAFETY GRATE.
2. FOR LOCATION OF ACCESSORIES SEE PUMP OUTLINE DIMENSIONS.
3. HATCH SHALL BE EQUIPPED WITH A PAD-LOCKABLE RECESSED LOCKING MECHANISM.
4. HATCH DIMENSIONS SHOWN ARE MINIMUM SIZES ALLOWED. THE ENGINEER SHALL BE RESPONSIBLE FOR VERIFYING MINIMUM HATCH DIMENSIONS FOR PUMP SELECTED.
5. FLOATS AND BUBBLER SHALL BE HUNG FROM THE SAFETY GRATE.

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PUMP STATION HATCH DETAIL

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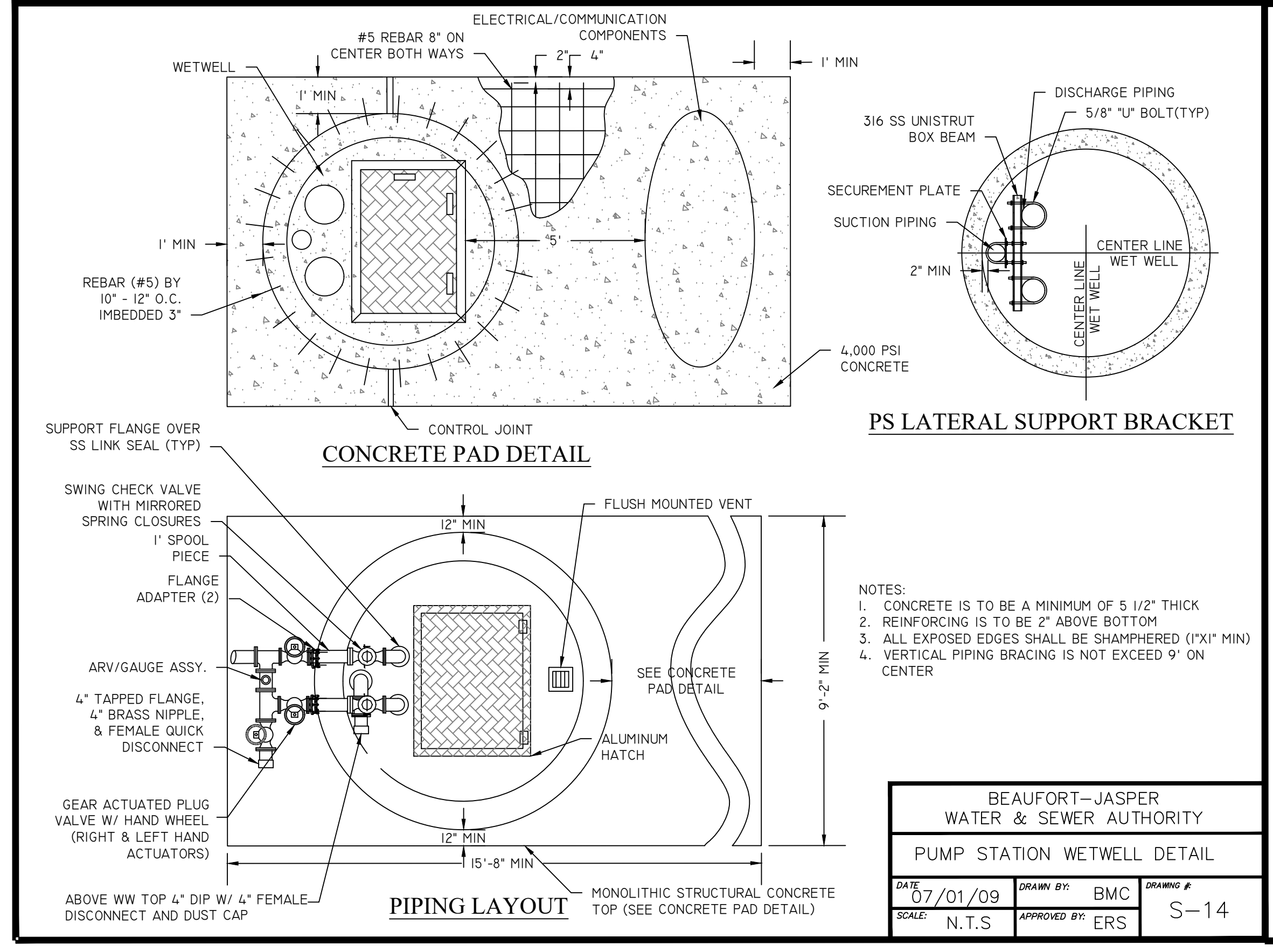
ELECTRICAL/COMMUNICATION COMPONENTS
WETWELL
#5 REBAR 8" ON CENTER BOTH WAYS
1' MIN
REBAR (#5) BY 10" - 12" O.C. IMBEDDED 3"
5'
CONTROL JOINT
CONCRETE PAD DETAIL
316 SS UNISTRUT BOX BEAM
DISCHARGE PIPING 5/8" "U" BOLT(TYP)
SECUREMENT PLATE
SUCTION PIPING
2" MIN
CENTER LINE WET WELL
4,000 PSI CONCRETE
PS LATERAL SUPPORT BRACKET
SUPPORT FLANGE OVER SS LINK SEAL (TYP)
SWING CHECK VALVE WITH MIRRORED SPRING CLOSURES
1' SPOOL PIECE
FLANGE ADAPTER (2)
ARV/GAUGE ASSY.
4" TAPPED FLANGE, 4" BRASS NIPPLE, & FEMALE QUICK DISCONNECT
GEAR ACTUATED PLUG VALVE W/ HAND WHEEL (RIGHT & LEFT HAND ACTUATORS)
ABOVE WW TOP 4" DIP W/ 4" FEMALE DISCONNECT AND DUST CAP
12" MIN
FLUSH MOUNTED VENT
SEE CONCRETE PAD DETAIL
ALUMINUM HATCH
15'-8" MIN
9'-2" MIN
MONOLITHIC STRUCTURAL CONCRETE TOP (SEE CONCRETE PAD DETAIL)
PIPING LAYOUT

NOTES:
1. CONCRETE IS TO BE A MINIMUM OF 5 1/2" THICK
2. REINFORCING IS TO BE 2" ABOVE BOTTOM
3. ALL EXPOSED EDGES SHALL BE SHAMPHERED (1"X1" MIN)
4. VERTICAL PIPING BRACING IS NOT EXCEED 9' ON CENTER

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PUMP STATION WETWELL DETAIL

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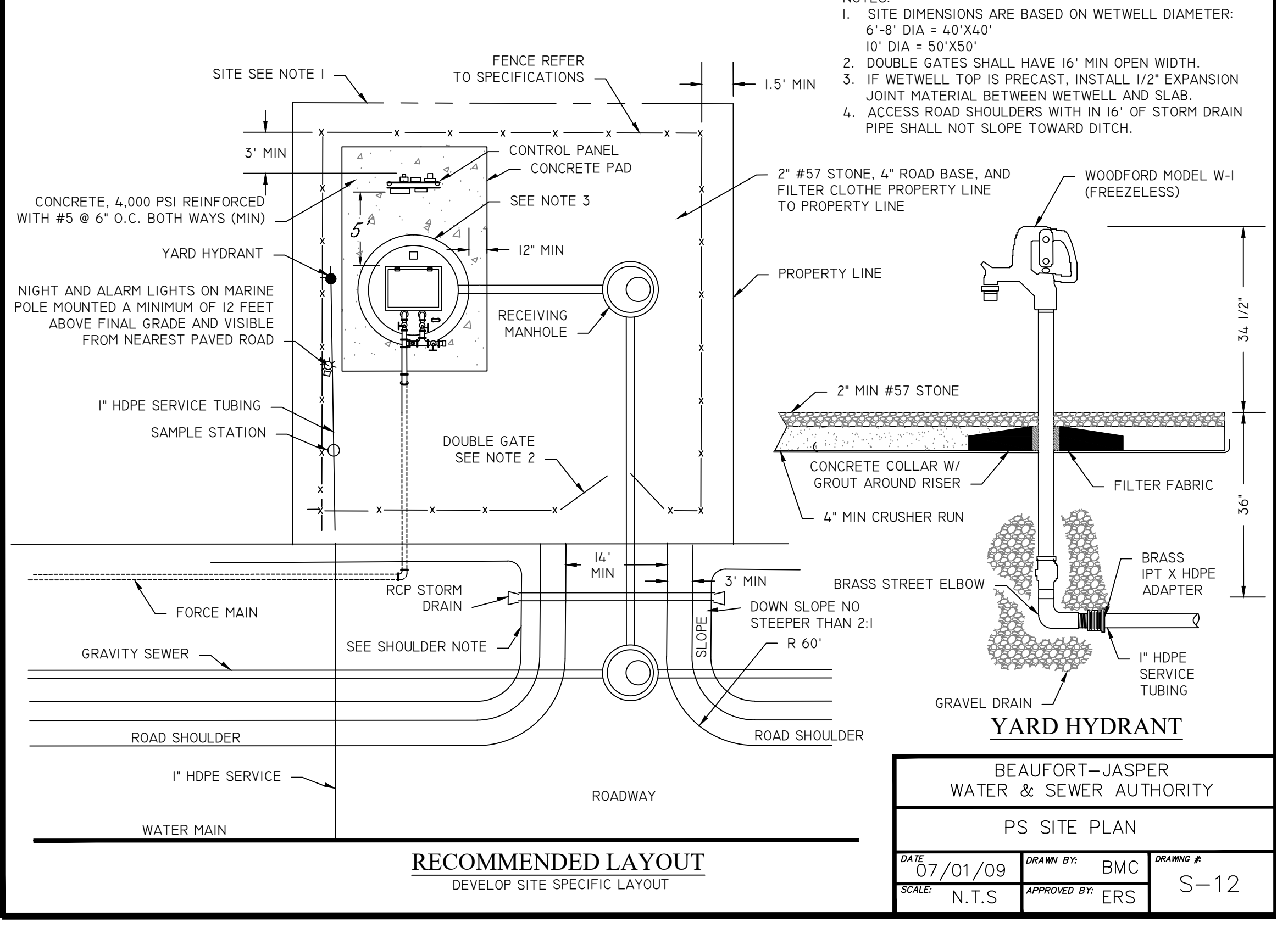
NOTES:
1. SITE DIMENSIONS ARE BASED ON WETWELL DIAMETER:
   6'-8' DIA = 40'X40'
   10' DIA = 50'X50'
2. DOUBLE GATES SHALL HAVE 16' MIN OPEN WIDTH.
3. IF WETWELL TOP IS PRECAST, INSTALL 1/2" EXPANSION JOINT MATERIAL BETWEEN WETWELL AND SLAB.
4. ACCESS ROAD SHOULDERS WITH IN 16' OF STORM DRAIN PIPE SHALL NOT SLOPE TOWARD DITCH.


SITE SEE NOTE 1
FENCE REFER TO SPECIFICATIONS
1.5' MIN
3' MIN
CONTROL PANEL CONCRETE PAD
SEE NOTE 3
CONCRETE, 4,000 PSI REINFORCED WITH #5 @ 6" O.C. BOTH WAYS (MIN)
YARD HYDRANT
12" MIN
NIGHT AND ALARM LIGHTS ON MARINE POLE MOUNTED A MINIMUM OF 12 FEET ABOVE FINAL GRADE AND VISIBLE FROM NEAREST PAVED ROAD
RECEIVING MANHOLE
1" HDPE SERVICE TUBING
SAMPLE STATION
DOUBLE GATE SEE NOTE 2
FORCE MAIN
RCP STORM DRAIN
14' MIN
GRAVITY SEWER
SEE SHOULDER NOTE 4
ROAD SHOULDER
ROAD SHOULDER
1" HDPE SERVICE
ROADWAY
WATER MAIN
RECOMMENDED LAYOUT
DEVELOP SITE SPECIFIC LAYOUT
2" #57 STONE, 4" ROAD BASE, AND FILTER CLOTHE PROPERTY LINE TO PROPERTY LINE
PROPERTY LINE
WOODFORD MODEL W-1 (FREEZELESS)
2" MIN #57 STONE
CONCRETE COLLAR W/ GROUT AROUND RISER
4" MIN CRUSHER RUN
FILTER FABRIC
3' MIN
BRASS STREET ELBOW
DOWN SLOPE NO STEEPER THAN 2:1
R 60'
BRASS 1FPT X HDPE ADAPTER
1" HDPE SERVICE TUBING
GRAVEL DRAIN
YARD HYDRANT
34 1/2"
36"

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PS SITE PLAN

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LANDSCAPE
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23 PROMENADE STREET
SUITE 201
BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

MEP/FP/LV
DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141

No. 22816
01/23/26
PAUL R. MOORE

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No. C00152

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South Carolina 29910
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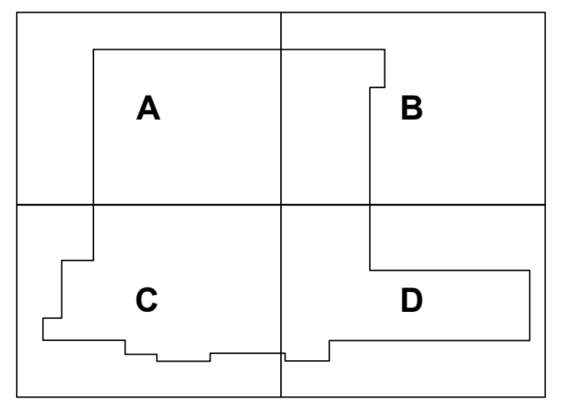
KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

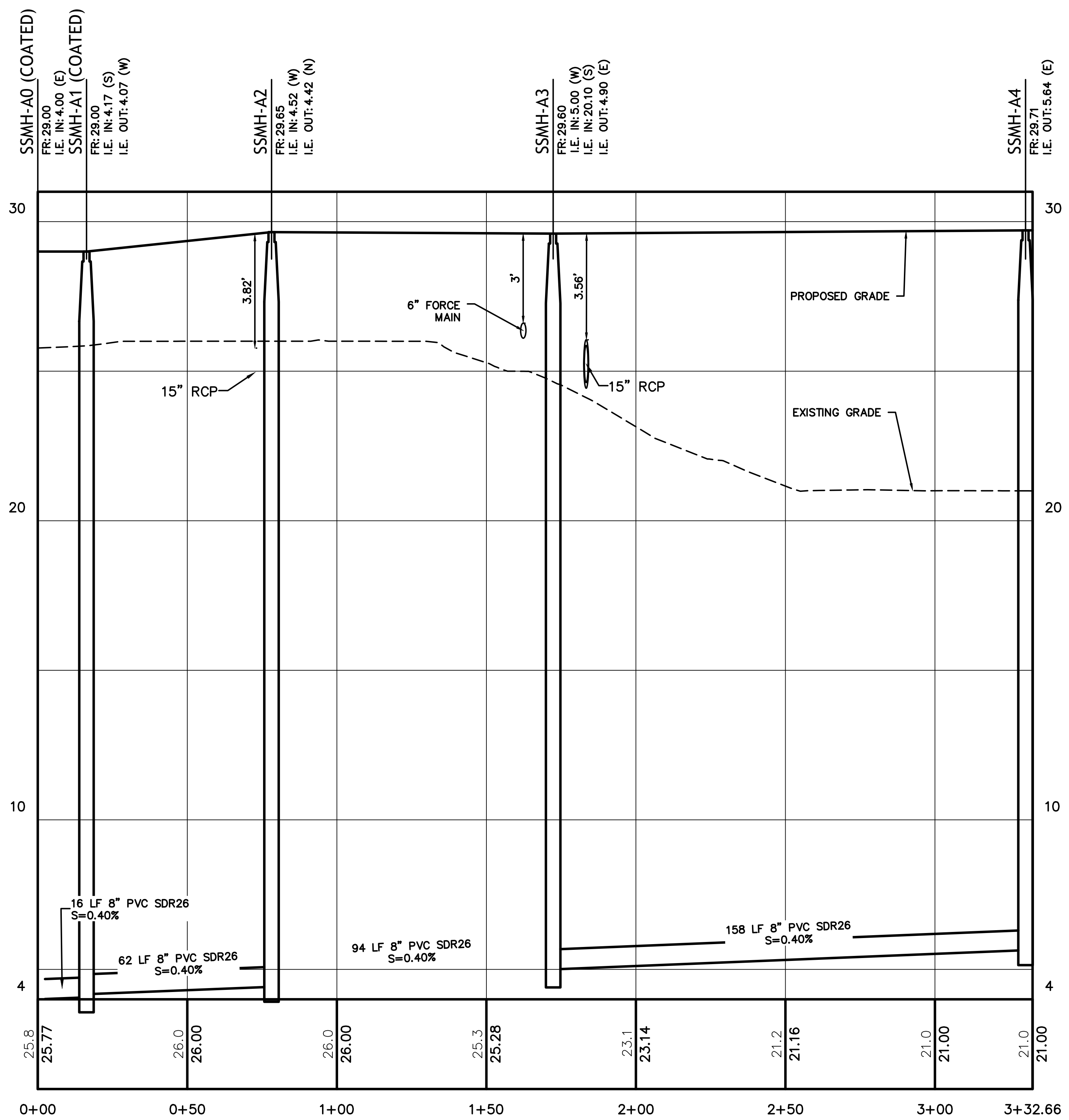
PROJECT NUMBER 400501008
ABBREVIATION BLUFFTON HOSPITAL
DRAWN BY GFONSECA
CHECKED BY LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
UTILITY DETAILS

SHEET NUMBER
C-705

ATTACHMENT 7



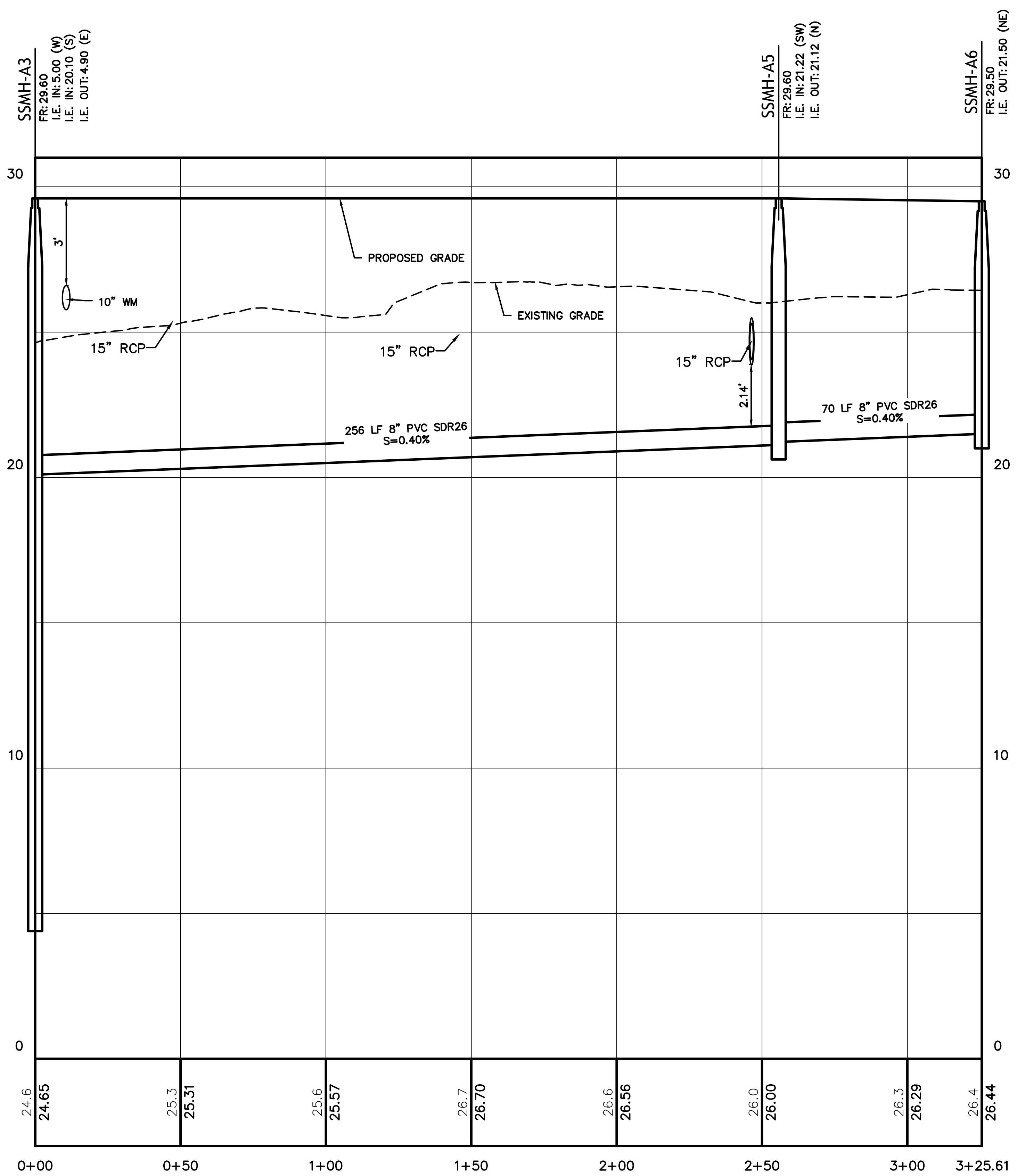
SSMH-A0 (COATED)
FR: 29.00
I.E. IN: 4.00 (E)
SSMH-A1 (COATED)
FR: 29.00
I.E. IN: 4.17 (S)
I.E. OUT: 4.07 (W)
SSMH-A2
FR: 29.65
I.E. IN: 4.52 (W)
I.E. OUT: 4.42 (N)
SSMH-A3
FR: 29.60
I.E. IN: 5.00 (W)
I.E. IN: 20.10 (S)
I.E. OUT: 4.90 (E)
SSMH-A4
FR: 29.71
I.E. OUT: 5.64 (E)
30
20
10
4
3.82'
3'
3.56'
6" FORCE MAIN
15" RCP
15" RCP
PROPOSED GRADE
EXISTING GRADE
16 LF 8" PVC SDR26 S=0.40%
62 LF 8" PVC SDR26 S=0.40%
94 LF 8" PVC SDR26 S=0.40%
158 LF 8" PVC SDR26 S=0.40%
25.8
25.77
26.0
26.00
26.0
26.00
25.3
25.28
23.1
23.14
21.2
21.16
21.0
21.00
21.0
21.00
0+00
0+50
1+00
1+50
2+00
2+50
3+00
3+32.66

Sanitary Sewer Profile A0-A4

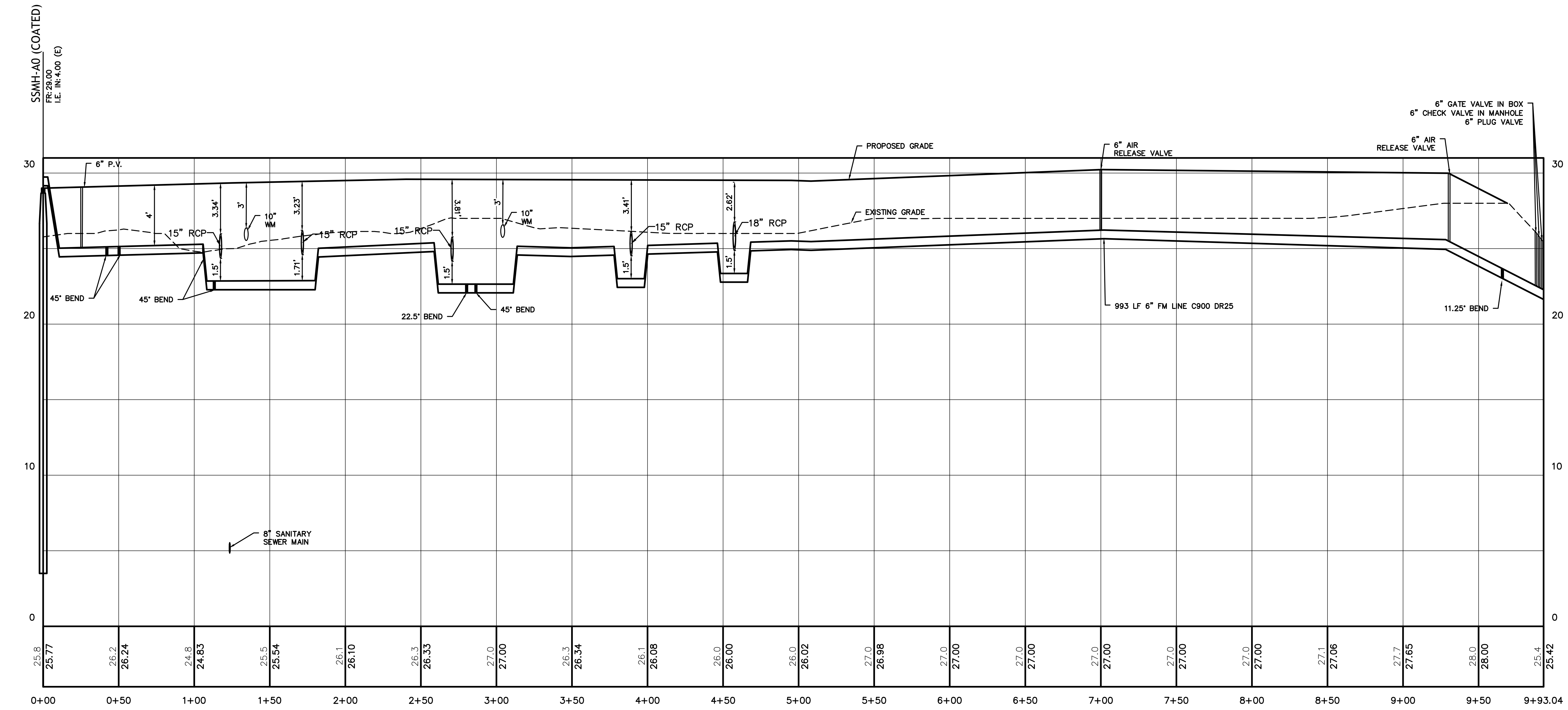
Scale: 1" = 30' Horiz
1" = 3' Vert

Sanitary Sewer Profile A3-A6

Scale: 1" = 30' Horiz
1" = 3' Vert



SSMH-A3
FR: 29.60
I.E. IN: 5.00 (W)
I.E. IN: 20.10 (S)
I.E. OUT: 4.90 (E)
SSMH-A5
FR: 29.60
I.E. IN: 21.22 (SW)
I.E. OUT: 21.12 (N)
SSMH-A6
FR: 29.50
I.E. OUT: 21.50 (NE)
30
20
10
0
3'
10" WM
PROPOSED GRADE
EXISTING GRADE
15" RCP
15" RCP
15" RCP
2.14'
256 LF 8" PVC SDR26 S=0.40%
70 LF 8" PVC SDR26 S=0.40%
24.6
24.65
25.3
25.31
25.6
25.57
26.7
26.70
26.6
26.56
26.0
26.00
26.3
26.29
26.4
26.44
0+00
0+50
1+00
1+50
2+00
2+50
3+00
3+25.61



SSMH-A0 (COATED)
FR: 29.00
I.E. IN: 4.00 (E)
30
20
10
0
6" P.V.
4'
3.34'
3'
10" WM
3.23'
3.81'
3'
10" WM
3.41'
2.62'
15" RCP
15" RCP
15" RCP
15" RCP
18" RCP
1.5'
1.71'
1.5'
1.5'
1.5'
45° BEND
45° BEND
22.5° BEND
45° BEND
PROPOSED GRADE
EXISTING GRADE
6" AIR RELEASE VALVE
6" AIR RELEASE VALVE
6" GATE VALVE IN BOX
6" CHECK VALVE IN MANHOLE
6" PLUG VALVE
993 LF 6" FM LINE C900 DR25
11.25° BEND
8" SANITARY SEWER MAIN
25.8
25.77
26.2
26.24
24.8
24.83
25.5
25.54
26.1
26.10
26.3
26.33
27.0
27.00
26.3
26.34
26.1
26.08
26.0
26.00
26.0
26.02
27.0
26.98
27.0
27.00
27.0
27.00
27.0
27.00
27.0
27.00
27.0
27.00
27.1
27.06
27.7
27.65
28.0
28.00
25.4
25.42
0+00
0+50
1+00
1+50
2+00
2+50
3+00
3+50
4+00
4+50
5+00
5+50
6+00
6+50
7+00
7+50
8+00
8+50
9+00
9+50
9+93.04

Sanitary Sewer Forcemain Profile

Scale: 1" = 40' Horiz
1" = 4' Vert

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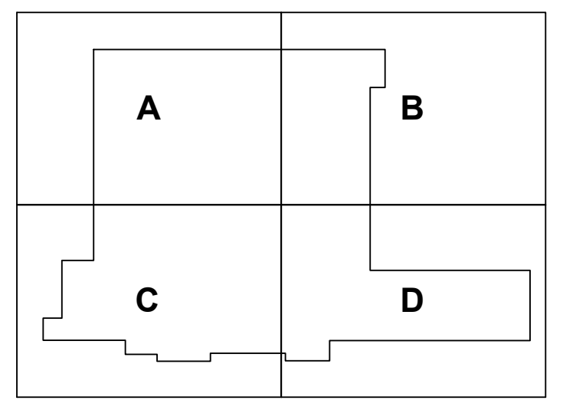

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
SANITARY SEWER
PROFILES

SHEET NUMBER
C-706

ATTACHMENT 7

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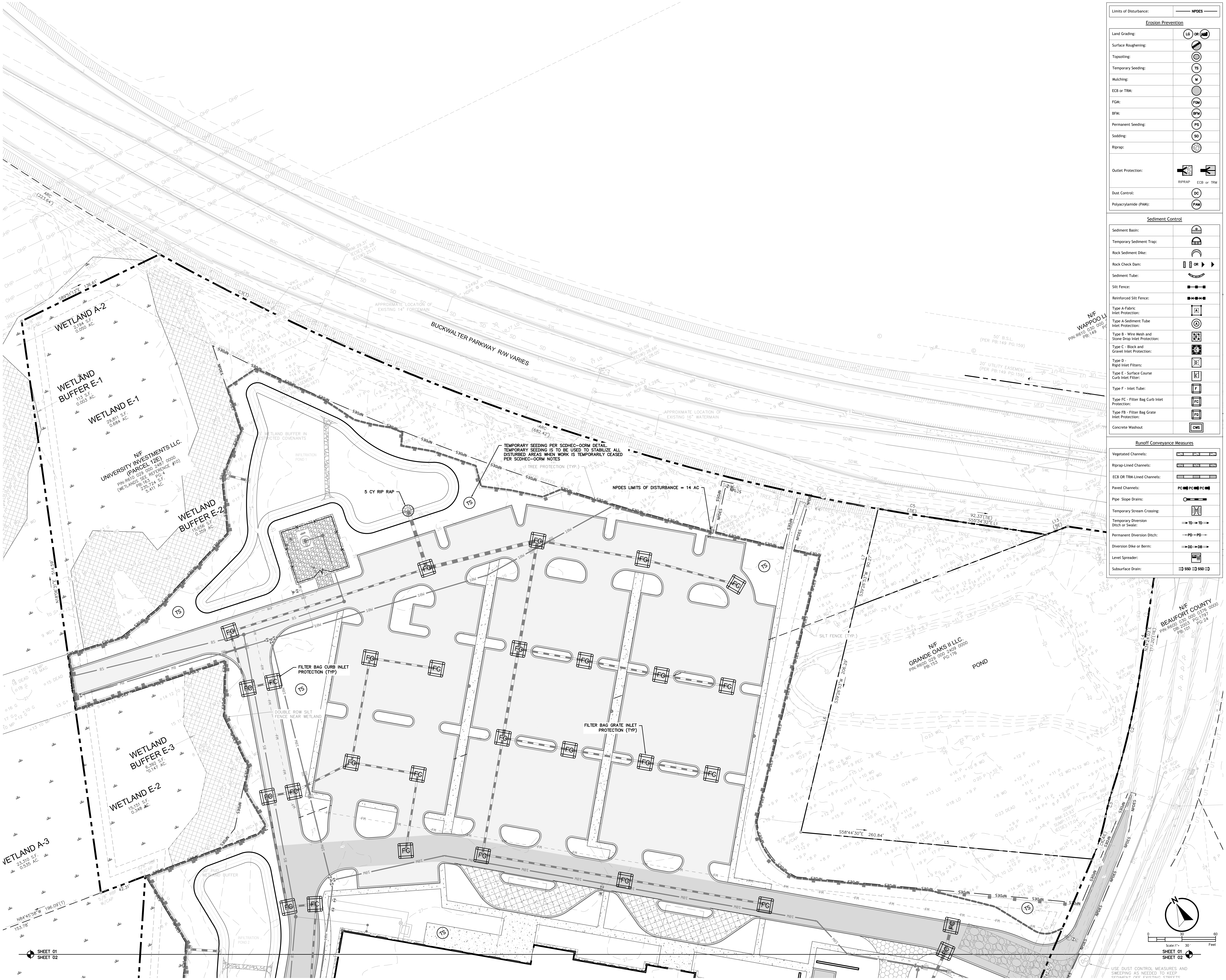
BUCKWALTER PARKWAY R/W VARIES
WETLAND A-2
2,194 S.F.
0.050 AC.
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12E)
PIN:R610 029 000 2487 0000
(WETLANDS SEE REFERENCE #10)
PB:163 PG:4
235,724 S.F.
5.411 AC.
WETLAND BUFFER E-2
15,656 S.F.
0.359 AC.
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
S89°51'13"E 136.61'
514.59'
N84°45'58"W 196.09'(T)
TEMPORARY SEEDING PER SCDHEC–OCRM DETAIL. TEMPORARY SEEDING IS TO BE USED TO STABILIZE ALL DISTURBED AREAS WHEN WORK IS TEMPORARILY CEASED PER SCDHEC–OCRM NOTES
TREE PROTECTION (TYP.)
5 CY RIP RAP
NPDES LIMITS OF DISTURBANCE = 14 AC
FILTER BAG CURB INLET PROTECTION (TYP)
FILTER BAG GRATE INLET PROTECTION (TYP)
DOUBLE ROW SILT FENCE NEAR WETLAND
SILT FENCE (TYP.)
N/F
WAPPOO LL
PIN:R610 030 000
PB:149
N/F
GRANDE OAKS II LLC.
PIN:R600 029 000 2409 0000
PB:153 PG:176
POND
N/F
BEAUFORT COUNTY
PIN:R600 030 000 0376 0000
DB:2003 PG:1797
PB:101 PG:24
S58°44'30"E 260.84'
S39°25'53"W 206.29'
USE DUST CONTROL MEASURES AND SWEEPING AS NEEDED TO KEEP SEDIMENT OFF EXISTING STREETS
N
0
30
60
Scale:1"= 30 '
Feet
SHEET 01
SHEET 02

Limits of Disturbance:	—— NPDES ——

Erosion Prevention

Land Grading:	LG OR
Surface Roughening:	▨
Topsoiling:	◎
Temporary Seeding:	TS
Mulching:	M
ECB or TRM:	▦
FGM:	FGM
BFM:	BFM
Permanent Seeding:	PS
Sodding:	SO
Riprap:	▨
Outlet Protection:	RIPRAP ECB or TRM
Dust Control:	DC
Polyacrylamide (PAM):	PAM

Sediment Control

Sediment Basin:	▨
Temporary Sediment Trap:	▨
Rock Sediment Dike:	▨
Rock Check Dam:	▯ ▯ OR ▶ ▶
Sediment Tube:	▨
Silt Fence:	■—■—■
Reinforced Silt Fence:	■×■×■
Type A-Fabric Inlet Protection:	A
Type A-Sediment Tube Inlet Protection:	Ⓐ
Type B - Wire Mesh and Stone Drop Inlet Protection:	B
Type C - Block and Gravel Inlet Protection:	C
Type D - Rigid Inlet Filters:	D
Type E - Surface Course Curb Inlet Filter:	E
Type F - Inlet Tube:	F
Type FC - Filter Bag Curb Inlet Protection:	FC
Type FB - Filter Bag Grate Inlet Protection:	FG
Concrete Washout	CWS

Runoff Conveyance Measures

Vegetated Channels:	▨
Riprap-Lined Channels:	▨
ECB OR TRM-Lined Channels:	▦
Paved Channels:	PC ➡ PC ➡ PC ➡
Pipe Slope Drains:	○■■■
Temporary Stream Crossing:	T
Temporary Diversion Ditch or Swale:	⇒ TD ⇒ TD ⇒
Permanent Diversion Ditch:	→ PD → PD →
Diversion Dike or Berm:	⇒ DD ⇒ DB ⇒
Level Spreader:	▤
Subsurface Drain:	⇉ SSD ⇉ SSD ⇉

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BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
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500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

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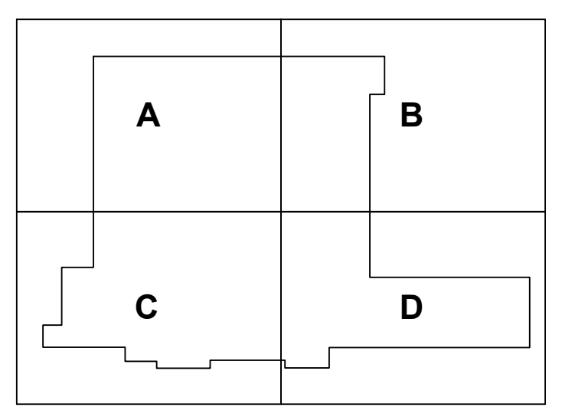

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER: 400501008
ABBREVIATION: BLUFFTON HOSPITAL
DRAWN BY: GFONSECA
CHECKED BY: LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
INTERMEDIATE
EROSION CONTROL
PLAN

SHEET NUMBER
C-801

ATTACHMENT 7

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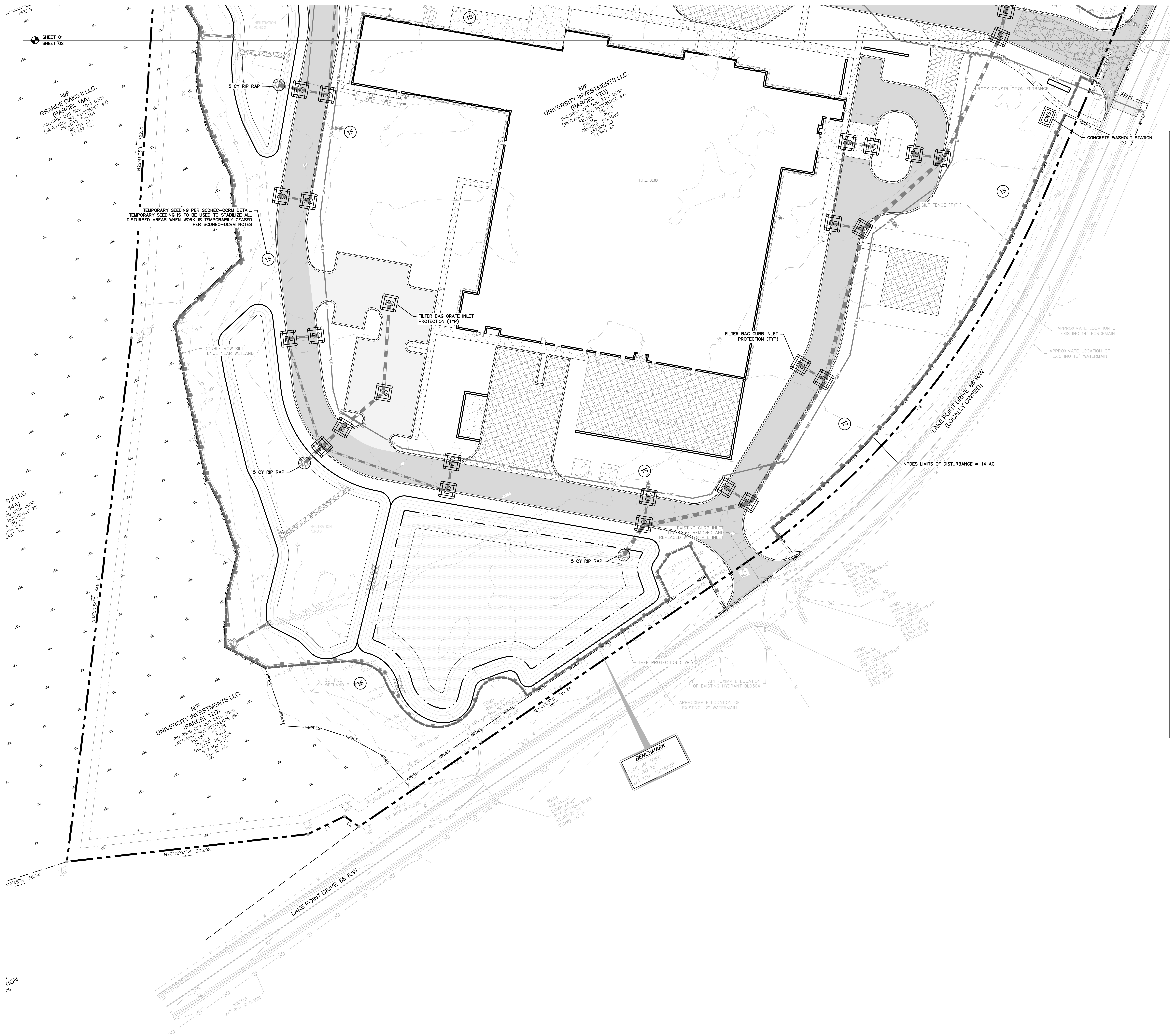

153.78'
SHEET 01
SHEET 02
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN:R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB:3093 PG:104
891,104 S.F.
20.457 AC.
N29°41'05"E 322.22'
INFILTRATION POND 2
5 CY RIP RAP
TS
FC
FG
10W
TEMPORARY SEEDING PER SCDHEC–OCRM DETAIL. TEMPORARY SEEDING IS TO BE USED TO STABILIZE ALL DISTURBED AREAS WHEN WORK IS TEMPORARILY CEASED PER SCDHEC–OCRM NOTES
DOUBLE ROW SILT FENCE NEAR WETLAND
5/8" RBF W/ CAP
FILTER BAG GRATE INLET PROTECTION (TYP)
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN:R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB:153 PG:176
PB:163 PG:3
DB:4019 PG:1098
537,900 S.F.
12.348 AC.
F.F.E: 30.00'
USE DUST CONTROL MEASURES AND SWEEPING AS NEEDED TO KEEP SEDIMENT OFF EXISTING STREETS.
DC
ROCK CONSTRUCTION ENTRANCE
S49°20'37"W 242.50'
NPDES
CWS
CONCRETE WASHOUT STATION
SILT FENCE (TYP.)
16.5' BUFFER/33' SETBACK
1/2" RBFD
BOC
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
FILTER BAG CURB INLET PROTECTION (TYP)
LAKE POINT DRIVE 66' R/W (LOCALLY OWNED)
C4
NPDES LIMITS OF DISTURBANCE = 14 AC
EXISTING CURB INLET LID TO BE REMOVED AND REPLACED WITH GRATE INLET
1/2" RBF
±41LF 12" RCP @ 0.68%
±42LF 12" RCP @ 0.05%
SDMH RIM: 26.36' SUMP: 21.59' BOX BOTTOM: 19.58' WSE: 24.46' (12–21–22) IE(SW): 20.75'
PD 18" RCP
SD
SDMH RIM: 26.40' SUMP: 22.36' BOX BOTTOM: 19.40' WSE: 24.40' (12–21–22) IE(SE): 20.24' IE(W): 20.44'
SDMH RIM: 26.28' SUMP: 21.87' BOX BOTTOM: 19.60' WSE: 24.45' (12–21–22) IE(NE): 20.47' IE(E): 20.46'
TREE PROTECTION (TYP.)
APPROXIMATE LOCATION OF EXISTING HYDRANT BL0304
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
BENCHMARK
NAIL IN TREE
EL.: 30.36'
DATUM: NAVD88
INFILTRATION POND 3
WET POND
30' PUD WETLAND BUFFER
N33°00'54"E 446.18'
S81°41'05"W 391.24'
SDMH RIM: 26.21' BOX BOTTOM: 21.54' IE(NW): 22.53'
IE: 22.71'(FES)
±55LF 24" RCP @ 0.32%
±27LF 24" RCP @ 0.26%
SDMH RIM: 26.20' SUMP: 23.42' BOX BOTTOM: 21.92' BOX BOTTOM: 22.90' IE(SW): 22.90' IE(NW): 22.72'
L2
L3
N70°32'03"W 205.08'
°46'45"W 86.14'
LAKE POINT DRIVE 66' R/W

Limits of Disturbance:	— NPDES —

Erosion Prevention

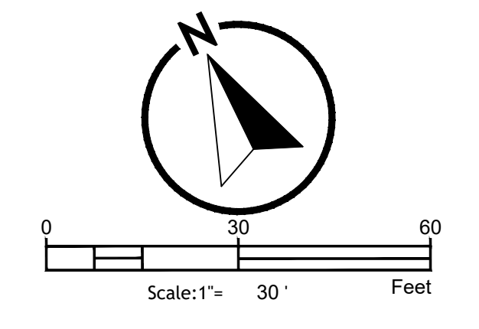
Land Grading:	LG OR
Surface Roughening:	●
Topsoiling:	◎
Temporary Seeding:	TS
Mulching:	M
ECB or TRM:	▦
FGM:	FGM
BFM:	BFM
Permanent Seeding:	PS
Sodding:	SO
Riprap:	●
Outlet Protection:	RIPRAP ECB or TRM
Dust Control:	DC
Polyacrylamide (PAM):	PAM

Sediment Control

Sediment Basin:	◓
Temporary Sediment Trap:	◓
Rock Sediment Dike:	◠
Rock Check Dam:	▯ ▯ OR ▶ ▶
Sediment Tube:	◡
Silt Fence:	■—■—■
Reinforced Silt Fence:	■×■×■
Type A-Fabric Inlet Protection:	A
Type A-Sediment Tube Inlet Protection:	A
Type B - Wire Mesh and Stone Drop Inlet Protection:	B
Type C - Block and Gravel Inlet Protection:	C
Type D - Rigid Inlet Filters:	D
Type E - Surface Course Curb Inlet Filter:	E
Type F - Inlet Tube:	F
Type FC - Filter Bag Curb Inlet Protection:	FC
Type FB - Filter Bag Grate Inlet Protection:	FG
Concrete Washout	CWS

Runoff Conveyance Measures

Vegetated Channels:	▭
Riprap-Lined Channels:	▭
ECB OR TRM-Lined Channels:	▭
Paved Channels:	PC ➡ PC ➡ PC ➡
Pipe Slope Drains:	○▬
Temporary Stream Crossing:	T
Temporary Diversion Ditch or Swale:	→ TD → TD →
Permanent Diversion Ditch:	→ PD → PD →
Diversion Dike or Berm:	→ DD → DB →
Level Spreader:	▤
Subsurface Drain:	⇒ SSD ⇒ SSD ⇒


N
0
30
60
Scale:1"= 30'
Feet

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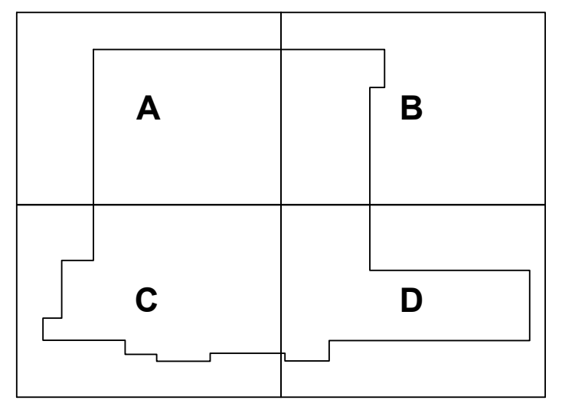

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REVISION	DESCRIPTION	DATE

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from list in Family Types
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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER
400501008

ABBREVIATION
BLUFFTON HOSPITAL

DRAWN BY
GFONSECA

CHECKED BY
LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
INTERMEDIATE
EROSION CONTROL
PLAN

SHEET NUMBER
C-802

ATTACHMENT 7

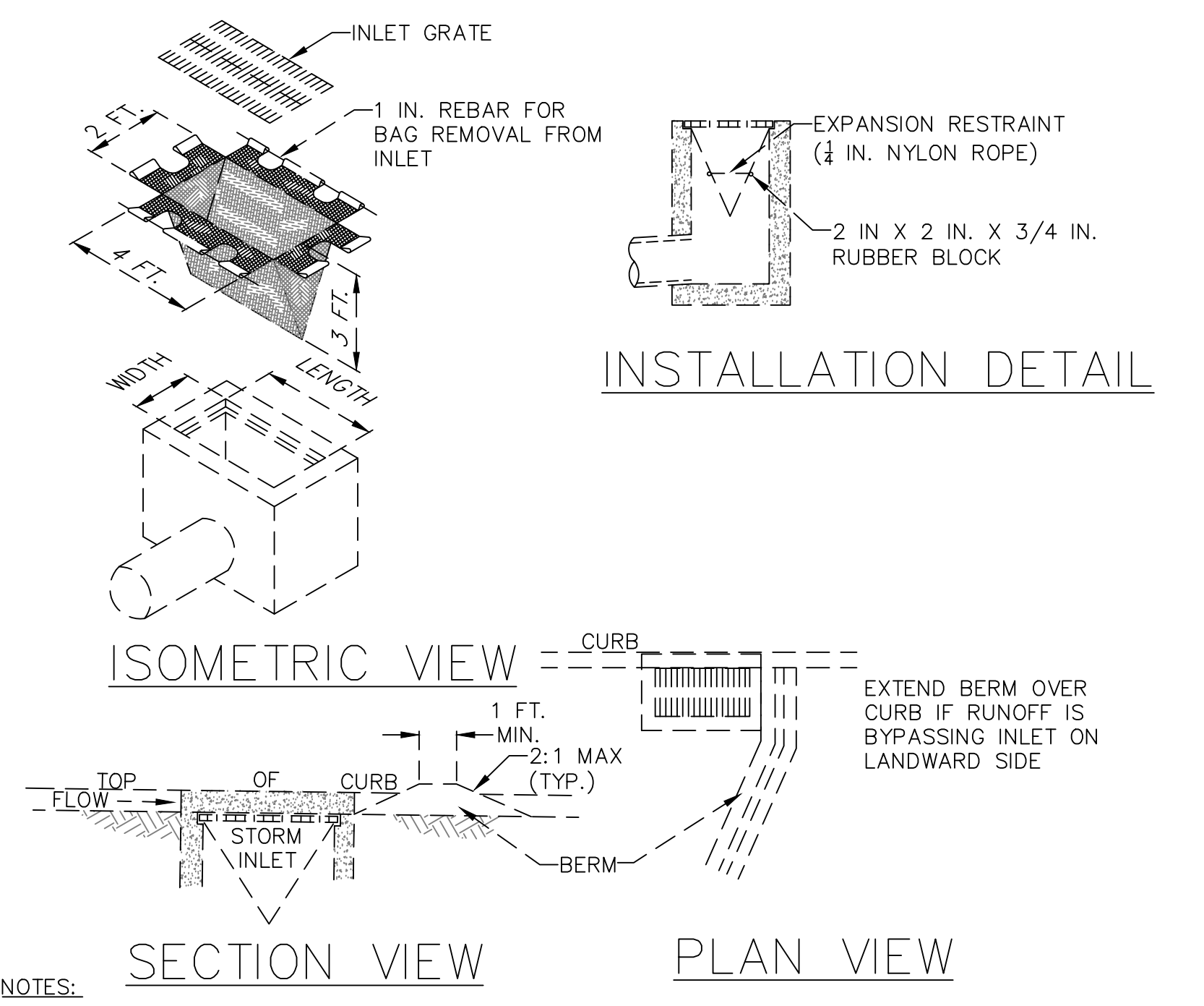
Permit Set - NOT FOR CONSTRUCTION

TEMPORARY SEEDING – COASTAL

SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	40 LBS/AC			■	■	■	■	■	■				
RYE, GRAIN	56 LBS/AC	■	■	■						■	■	■	■
RYEGRASS	50 LBS/AC	■	■	■	■					■	■	■	■
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET OR JAPANESE MILLET	40 LBS/AC			■	■	■	■	■	■				
RYE, GRAIN OR OATS	56 LBS/AC 75 LBS/AC	■	■	■						■	■	■	■
RYEGRASS	50 LBS/AC	■	■	■	■					■	■	■	■

TS TEMPORARY SEEDING - COASTAL

DETAIL 02370-011


INLET GRATE
1 IN. REBAR FOR BAG REMOVAL FROM INLET
2 FT.
4 FT.
3 FT.
WIDTH
LENGTH
ISOMETRIC VIEW
EXPANSION RESTRAINT (¼ IN. NYLON ROPE)
2 IN X 2 IN. X 3/4 IN. RUBBER BLOCK
INSTALLATION DETAIL
CURB
EXTEND BERM OVER CURB IF RUNOFF IS BYPASSING INLET ON LANDWARD SIDE
1 FT. MIN.
2:1 MAX (TYP.)
TOP OF CURB
FLOW
STORM INLET
BERM
SECTION VIEW
PLAN VIEW

NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

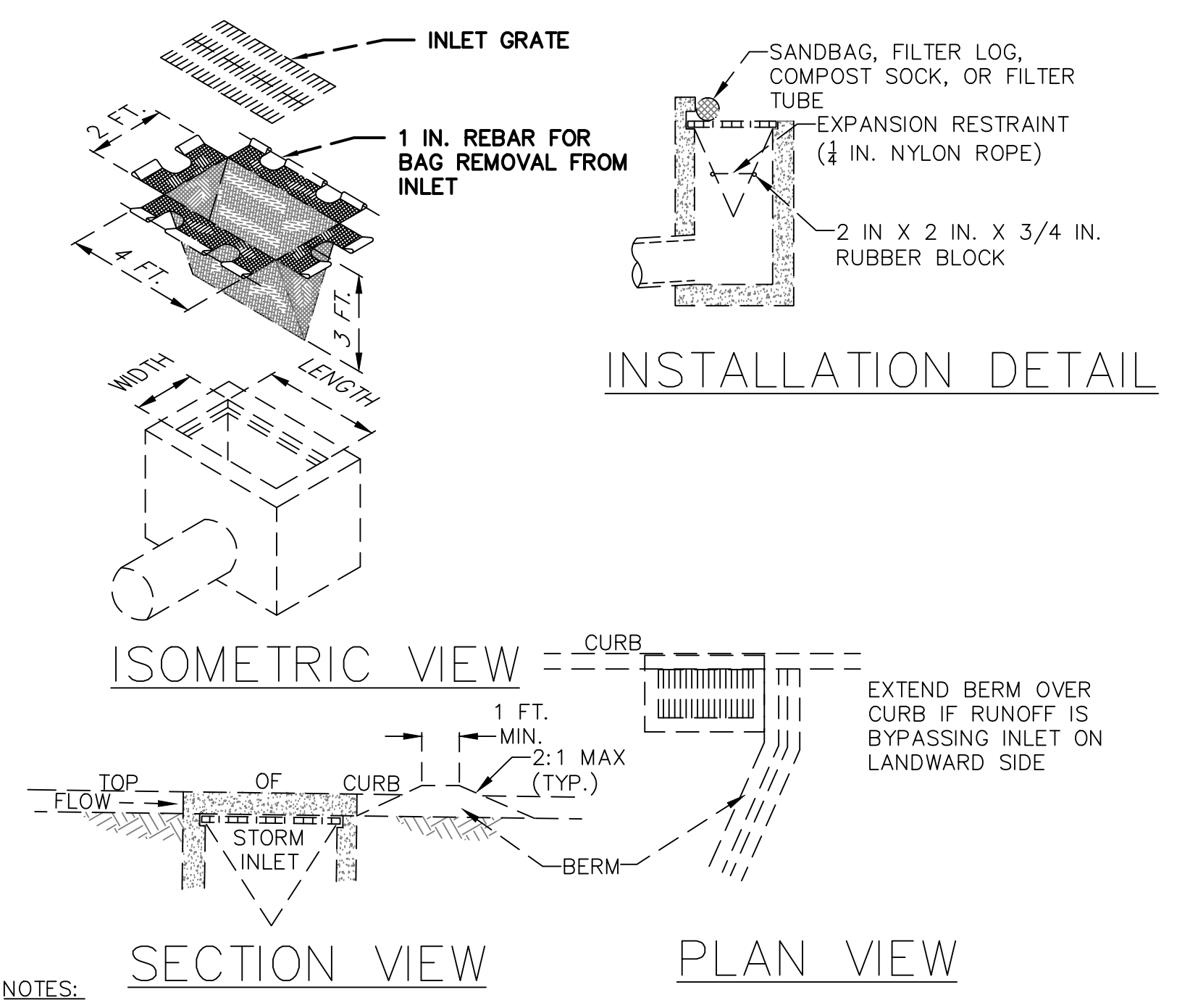
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG GRATE INLET PROTECTION

NO SCALE


INLET GRATE
1 IN. REBAR FOR BAG REMOVAL FROM INLET
2 FT.
4 FT.
3 FT.
WIDTH
LENGTH
ISOMETRIC VIEW
SANDBAG, FILTER LOG, COMPOST SOCK, OR FILTER TUBE
EXPANSION RESTRAINT (¼ IN. NYLON ROPE)
2 IN X 2 IN. X 3/4 IN. RUBBER BLOCK
INSTALLATION DETAIL
CURB
EXTEND BERM OVER CURB IF RUNOFF IS BYPASSING INLET ON LANDWARD SIDE
1 FT. MIN.
2:1 MAX (TYP.)
TOP OF CURB
FLOW
STORM INLET
BERM
SECTION VIEW
PLAN VIEW

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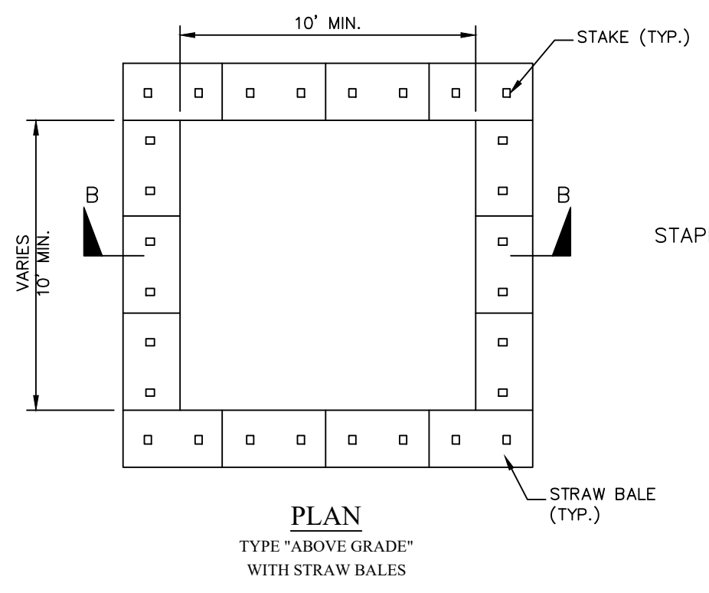
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

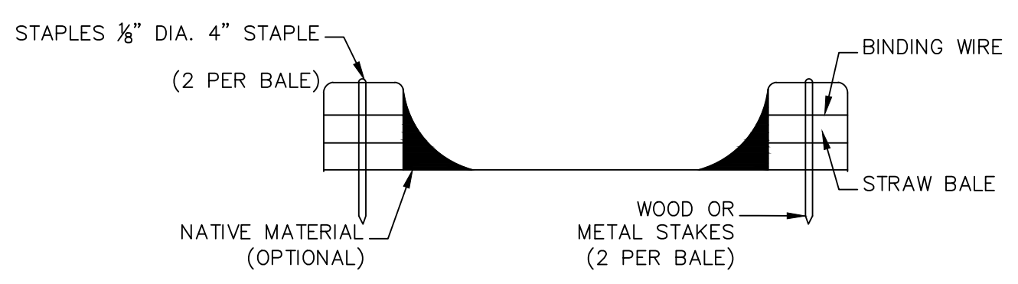
FILTER BAG CURB INLET PROTECTION

NO SCALE

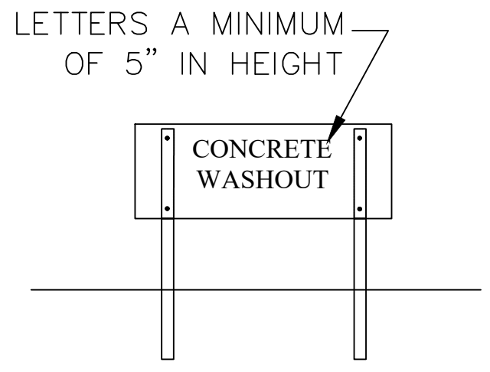
STRAW BALE BARRIER CONCRETE WASHOUT


10' MIN.
STAKE (TYP.)
VARIES 10' MIN.
B
B
STRAW BALE (TYP.)

PLAN
TYPE "ABOVE GRADE"
WITH STRAW BALES


STAPLES ⅛" DIA. 4" STAPLE (2 PER BALE)
BINDING WIRE
STRAW BALE
NATIVE MATERIAL (OPTIONAL)
WOOD OR METAL STAKES (2 PER BALE)

SECTION B-B


LETTERS A MINIMUM OF 5" IN HEIGHT
CONCRETE WASHOUT

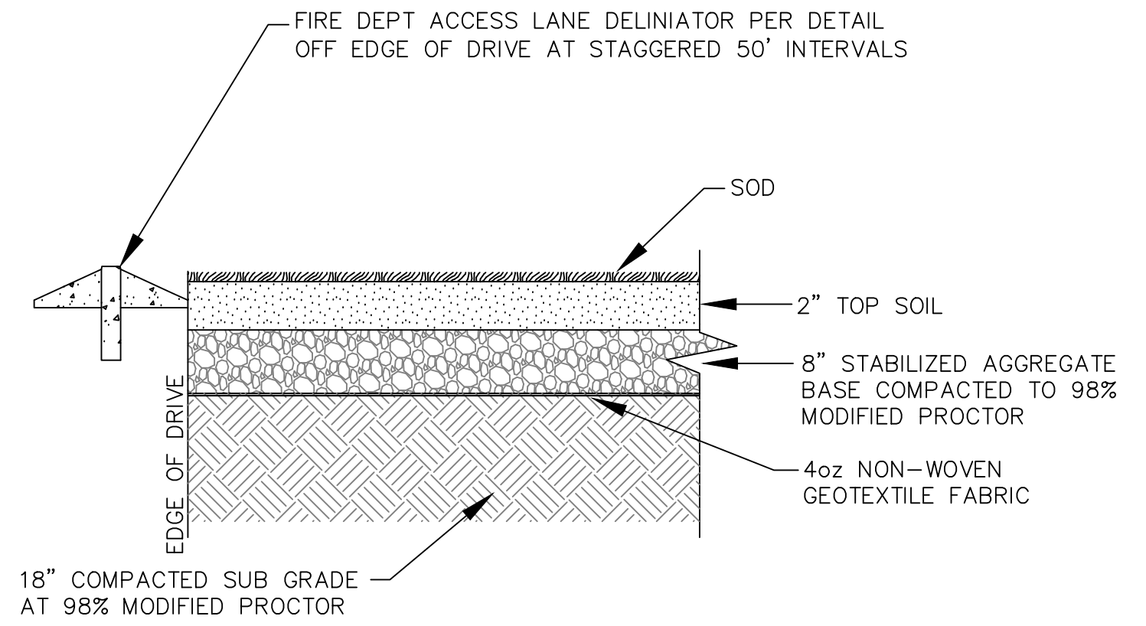
CONCRETE WASHOUT SIGN DETAIL

NOTES:

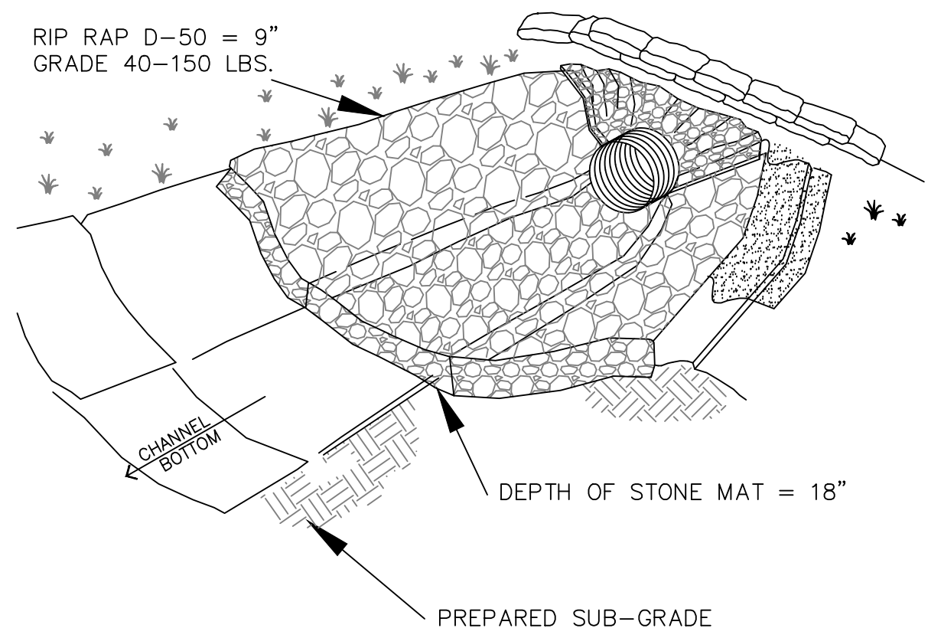
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

CWS

South Carolina Department of
Health and Environmental Control
CONCRETE WASHOUT
STRAW BALES OR ABOVE GROUND
STANDARD DRAWING NO. RC–07 PAGE 1 of 1
NOT TO SCALE
FEBRUARY 2014
DATE


FIRE DEPT ACCESS LANE DELINIATOR PER DETAIL OFF EDGE OF DRIVE AT STAGGERED 50' INTERVALS
SOD
2" TOP SOIL
8" STABILIZED AGGREGATE BASE COMPACTED TO 98% MODIFIED PROCTOR
4oz NON–WOVEN GEOTEXTILE FABRIC
EDGE OF DRIVE
18" COMPACTED SUB GRADE AT 98% MODIFIED PROCTOR

REINFORCED GRASS FIRE LANE


RIP RAP D–50 = 9"
GRADE 40–150 LBS.
CHANNEL BOTTOM
DEPTH OF STONE MAT = 18"
PREPARED SUB–GRADE

NOTES:

1. PLACE ALL RIP RAP ON 8 OUNCE NON–WOVEN FILTER CLOTH.
2. STAKING OF FILTER CLOTH PER MANUFACTURER'S SPECIFICATIONS.
3. LENGTH OF OUTLET STABILIZATION = 8 TIMES PIPE DIA.
   TOP WIDTH OF OUTLET STABILIZATION = 3 TIMES PIPE DIA.
   BOTTOM WIDTH OF OUTLET STABILIZATION = 6 TIMES PIPE DIA.

RIP RAP OUTLET STABILIZATION DETAIL

DETAIL #02370-009

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843-837-5250

LANDSCAPE
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23 PROMENADE STREET
SUITE 201
BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

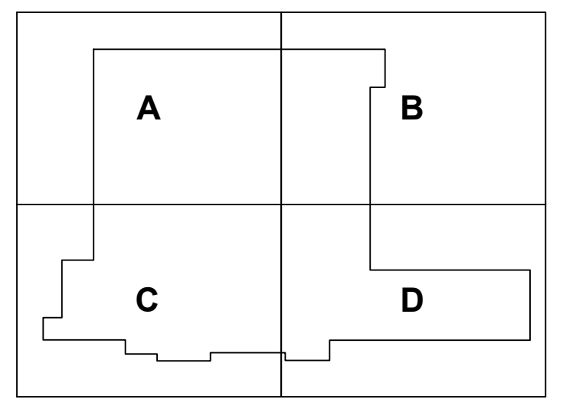
MEP/FP/LV
DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141

No. 22816
01/23/26
PAUL R. MOORE

WARD EDWARDS, INC.
No. C00152

Ward Edwards ENGINEERING
119C Palmetto Way
P.O. Box 381, Bluffton,
South Carolina 29910
(843) 837-5250
www.WardEdwards.com
WE JOBNUMBER: 230641

KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER
400501008

ABBREVIATION
BLUFFTON HOSPITAL

DRAWN BY
GFONSECA

CHECKED BY
LKINCAID

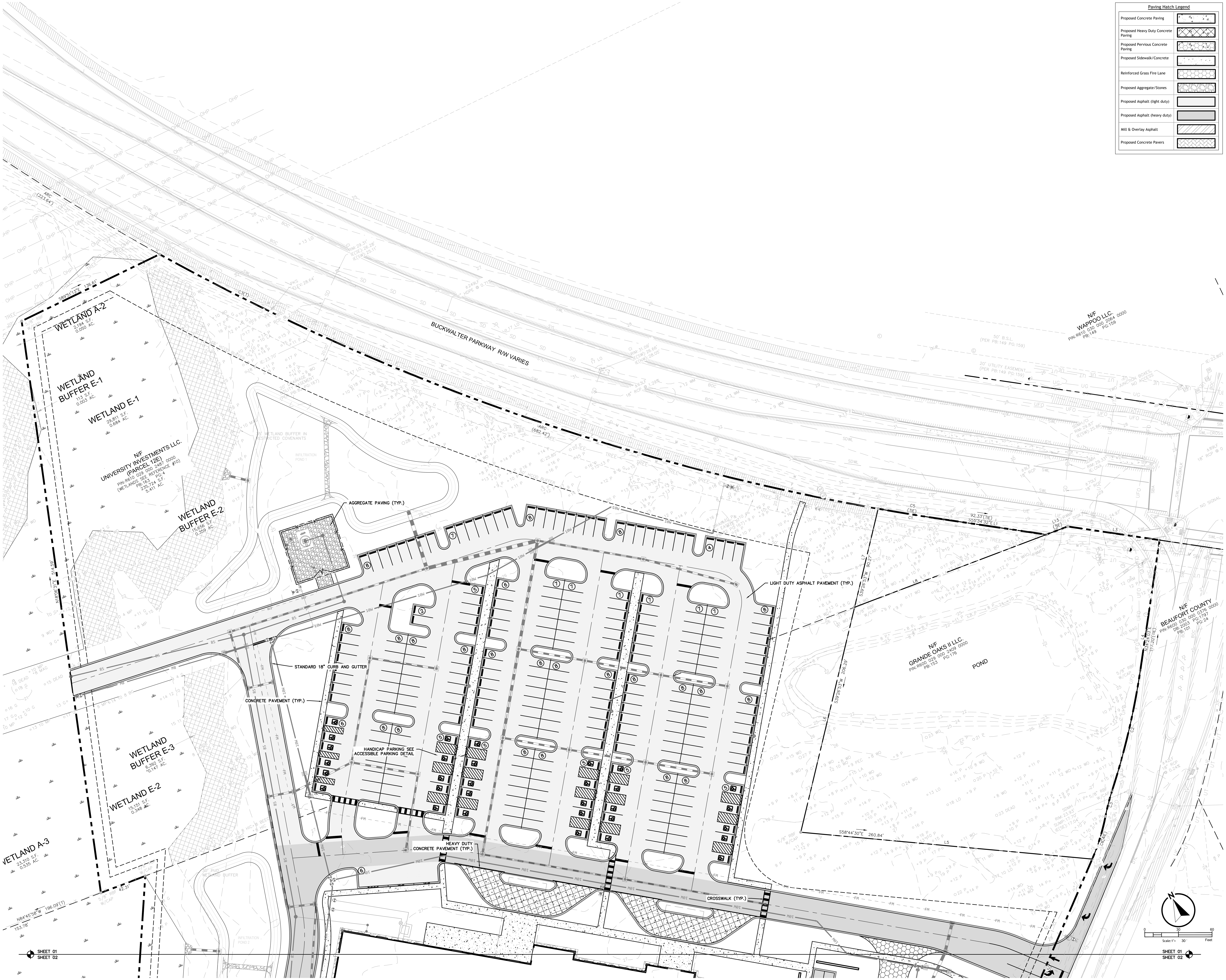
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
INTERMEDIATE
EROSION CONTROL
DETAILS

SHEET NUMBER
C-803

ATTACHMENT 7

Permit Set - NOT FOR CONSTRUCTION


BUCKWALTER PARKWAY R/W VARIES
WETLAND A-2
2,194 S.F.
0.050 AC.
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12E)
PIN:R610 028 000 2487 0000
(WETLANDS SEE REFERENCE #10)
PB:163 PG:4
235,724 S.F.
5.411 AC.
WETLAND BUFFER E-2
15,656 S.F.
0.359 AC.
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
AGGREGATE PAVING (TYP.)
LIGHT DUTY ASPHALT PAVEMENT (TYP.)
STANDARD 18" CURB AND GUTTER
CONCRETE PAVEMENT (TYP.)
HANDICAP PARKING SEE ACCESSIBLE PARKING DETAIL
HEAVY DUTY CONCRETE PAVEMENT (TYP.)
CROSSWALK (TYP.)
N/F
WAPPOO LLC.
PIN:R610 030 000 2064 0000
PB:149 PG:159
N/F
GRANDE OAKS II LLC.
PIN:R600 029 000 2409 0000
PB:153 PG:176
POND
N/F
BEAUFORT COUNTY
PIN:R600 030 000 0376 0000
DB:2001 PG:1797
PB:101 PG:24
ARC (223.64')
ARC (682.42')
S89°51'13"E 136.61'
N84°45'58"W 196.09'(T)
S58°44'30"E 260.84'
S39°25'53"W 206.29'
92.33'(TIE)
S55°24'32"E L1
50' B.S.L. (PCR PB:149 PG:159)
20' UTILITY EASEMENT (PCR PB:149 PG:159)
0
30
60
Scale:1"= 30 '
Feet
N
SHEET 01
SHEET 02

Paving Hatch Legend

Proposed Concrete Paving	▭
Proposed Heavy Duty Concrete Paving	▩
Proposed Pervious Concrete Paving	⬡
Proposed Sidewalk/Concrete	▭
Reinforced Grass Fire Lane	⬡
Proposed Aggregate/Stones	▦
Proposed Asphalt (light duty)	□
Proposed Asphalt (heavy duty)	■
Mill & Overlay Asphalt	▨
Proposed Concrete Pavers	▩

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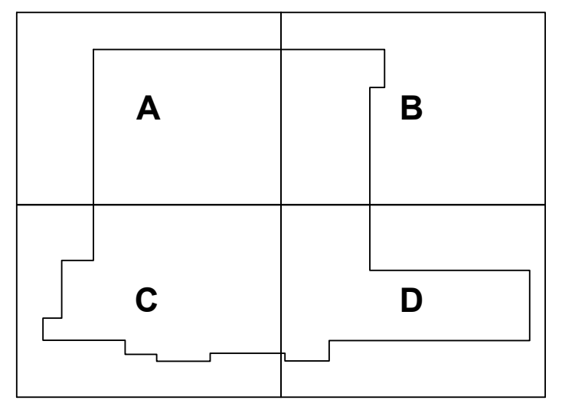
KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

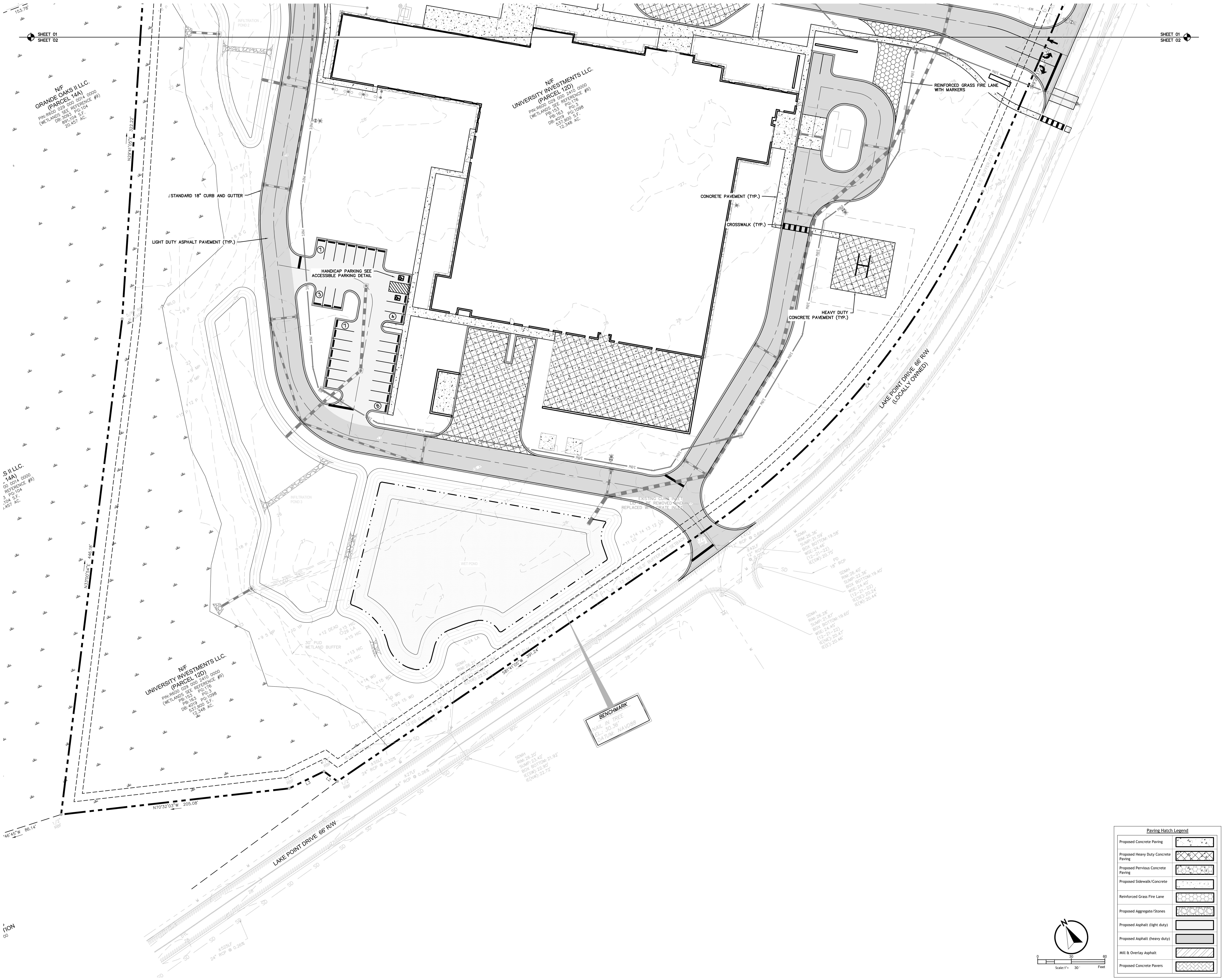
PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
PAVING PLAN

SHEET NUMBER
C-901

ATTACHMENT 7


SHEET 01
SHEET 02
153.78'
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN: R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB: 3093 PG:104
891,104 S.F.
20.457 AC.
N29°41'05"E 322.22'
INFILTRATION POND 2
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN: R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB:153 PG:176
PB:163 PG:3
DB: 4019 PG:1098
537,900 S.F.
12.348 AC.
STANDARD 18" CURB AND GUTTER
LIGHT DUTY ASPHALT PAVEMENT (TYP.)
HANDICAP PARKING SEE ACCESSIBLE PARKING DETAIL
CONCRETE PAVEMENT (TYP.)
CROSSWALK (TYP.)
REINFORCED GRASS FIRE LANE WITH MARKERS
HEAVY DUTY CONCRETE PAVEMENT (TYP.)
H
LAKE POINT DRIVE 66' R/W (LOCALLY OWNED)
C4
EXISTING CURB INLET LID TO BE REMOVED AND REPLACED WITH GRATE INLET
46.5' BUFFER/33' SETBACK
1/2" RBF
±41LF 12" RCP @ 0.68%
±42LF 12" RCP @ 0.05%
INFILTRATION POND 3
WET POND
30' PUD WETLAND BUFFER
N33°00'54"E 446.18'
S61°41'05"W 391.24'
N70°32'03"W 205.08'
86.14'
BENCHMARK
NAIL IN TREE
EL.: 30.36'
DATUM: NAVD88
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN: R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB:153 PG:176
PB:163 PG:3
DB: 4019 PG:1098
537,900 S.F.
12.348 AC.
LAKE POINT DRIVE 66' R/W
0
30
60
Feet
Scale:1"= 30'

Paving Hatch Legend

Proposed Concrete Paving	▨
Proposed Heavy Duty Concrete Paving	▨
Proposed Pervious Concrete Paving	▨
Proposed Sidewalk/Concrete	▨
Reinforced Grass Fire Lane	▨
Proposed Aggregate/Stones	▨
Proposed Asphalt (light duty)	▭
Proposed Asphalt (heavy duty)	▭
Mill & Overlay Asphalt	▨
Proposed Concrete Pavers	▨

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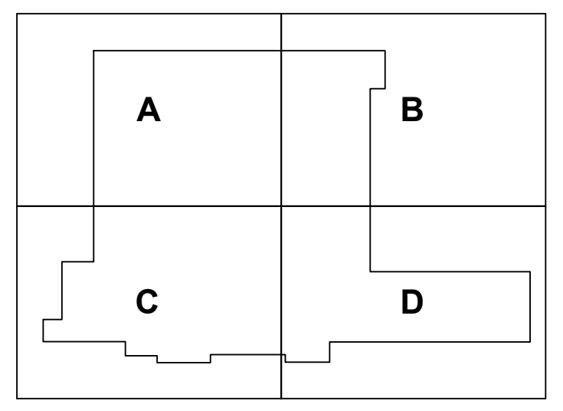
KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

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BLUFFTON HOSPITAL
BLUFFTON, SC

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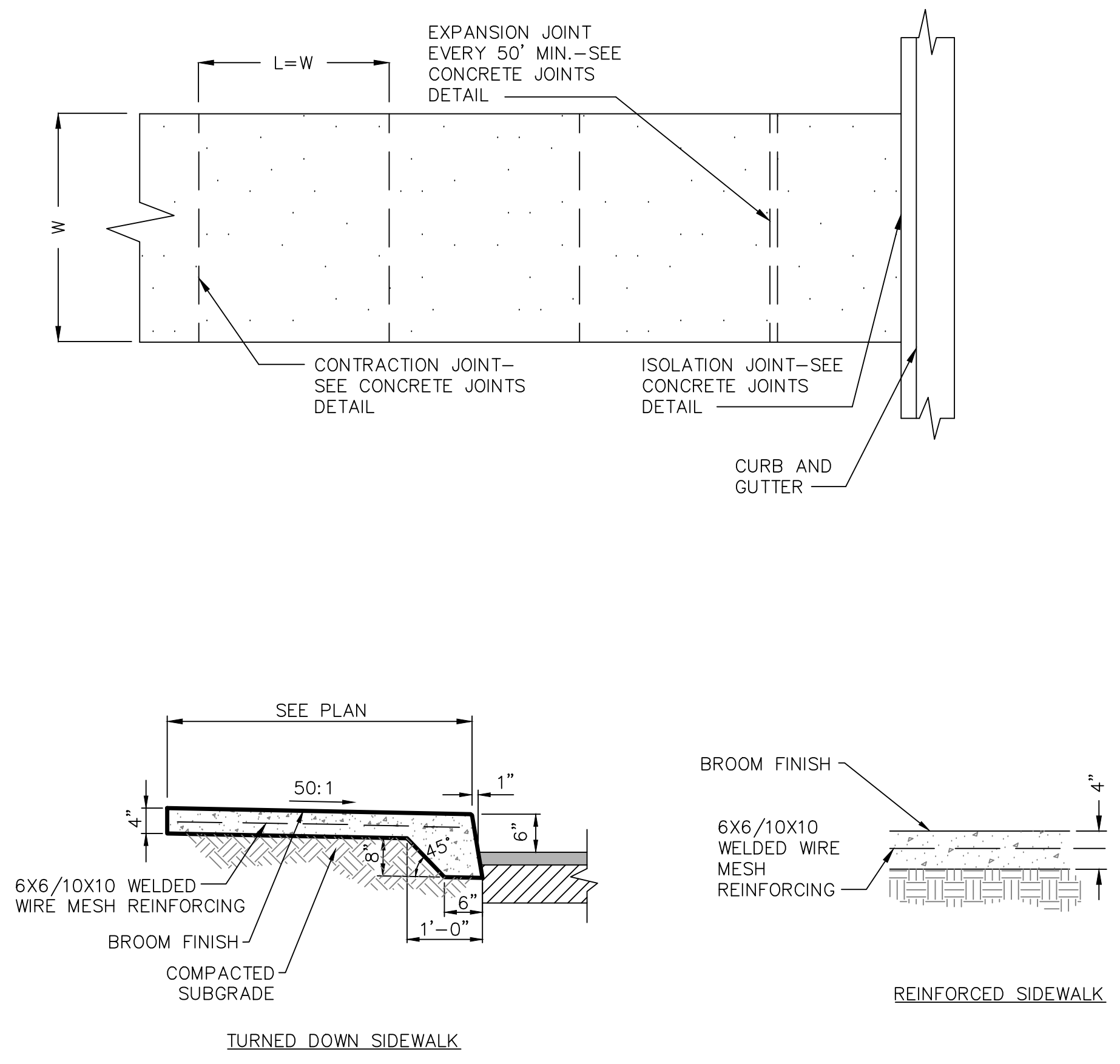
DRAWN BY	**CHECKED BY**
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
PAVING PLAN

SHEET NUMBER
C-902


L=W
W
EXPANSION JOINT EVERY 50' MIN.–SEE CONCRETE JOINTS DETAIL
CONTRACTION JOINT– SEE CONCRETE JOINTS DETAIL
ISOLATION JOINT–SEE CONCRETE JOINTS DETAIL
CURB AND GUTTER
SEE PLAN
50:1
1"
4"
6"
8"
45°
6"
1'–0"
6X6/10X10 WELDED WIRE MESH REINFORCING
BROOM FINISH
COMPACTED SUBGRADE
BROOM FINISH
6X6/10X10 WELDED WIRE MESH REINFORCING
4"

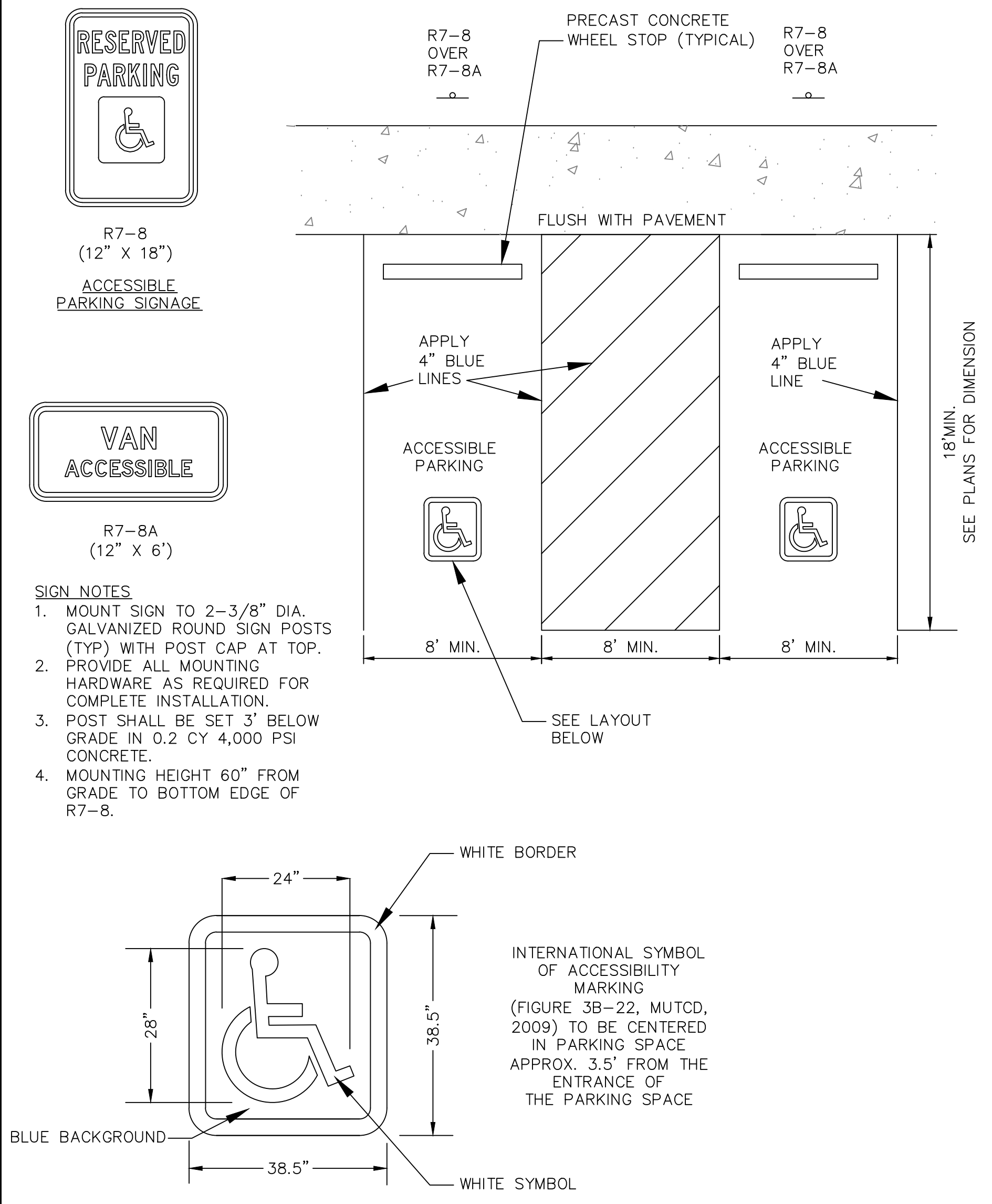
TURNED DOWN SIDEWALK

REINFORCED SIDEWALK

NOTES:
1. W = VARIES, REFER TO STAKING PLAN FILL IN BASED ON SITE PLAN
2. L = WIDTH OF PAVING UNLESS OTHERWISE INDICATED ON PLAN.
3. SLOPE = AS INDICATED ON GRADING PLAN, NOT TO EXCEED 2% CROSS OF 8.33% LONGITUDINAL
4. ALL CONCRETE SHALL BE CLASS A 3000 PSI
5. FINISH BROOM WITH HAND TOOLED JOINTS AND EDGES.

CONCRETE SIDEWALK

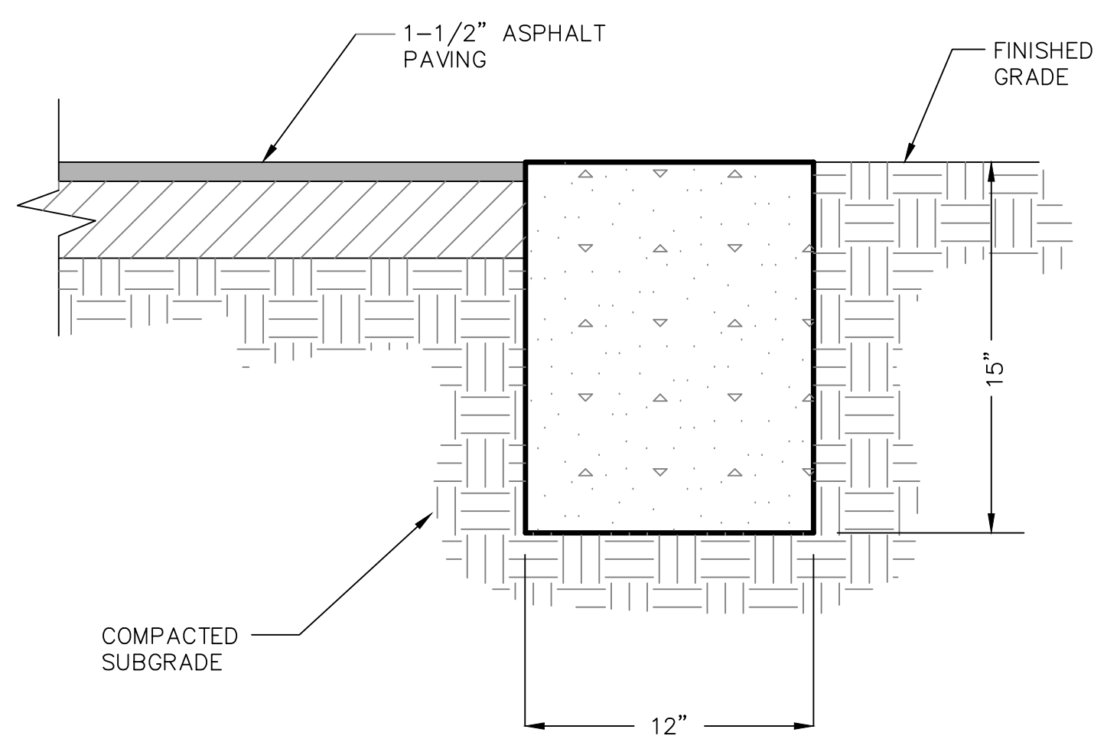
DETAIL 03300-006


RESERVED PARKING
R7–8
(12" X 18")
ACCESSIBLE PARKING SIGNAGE
VAN ACCESSIBLE
R7–8A
(12" X 6')
R7–8 OVER R7–8A
PRECAST CONCRETE WHEEL STOP (TYPICAL)
R7–8 OVER R7–8A
FLUSH WITH PAVEMENT
APPLY 4" BLUE LINES
APPLY 4" BLUE LINE
ACCESSIBLE PARKING
ACCESSIBLE PARKING
18'MIN. SEE PLANS FOR DIMENSION
8' MIN.
8' MIN.
8' MIN.
SEE LAYOUT BELOW
WHITE BORDER
24"
28"
38.5"
38.5"
BLUE BACKGROUND
WHITE SYMBOL
INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING (FIGURE 3B–22, MUTCD, 2009) TO BE CENTERED IN PARKING SPACE APPROX. 3.5' FROM THE ENTRANCE OF THE PARKING SPACE

SIGN NOTES
1. MOUNT SIGN TO 2–3/8" DIA. GALVANIZED ROUND SIGN POSTS (TYP) WITH POST CAP AT TOP.
2. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED FOR COMPLETE INSTALLATION.
3. POST SHALL BE SET 3' BELOW GRADE IN 0.2 CY 4,000 PSI CONCRETE.
4. MOUNTING HEIGHT 60" FROM GRADE TO BOTTOM EDGE OF R7–8.

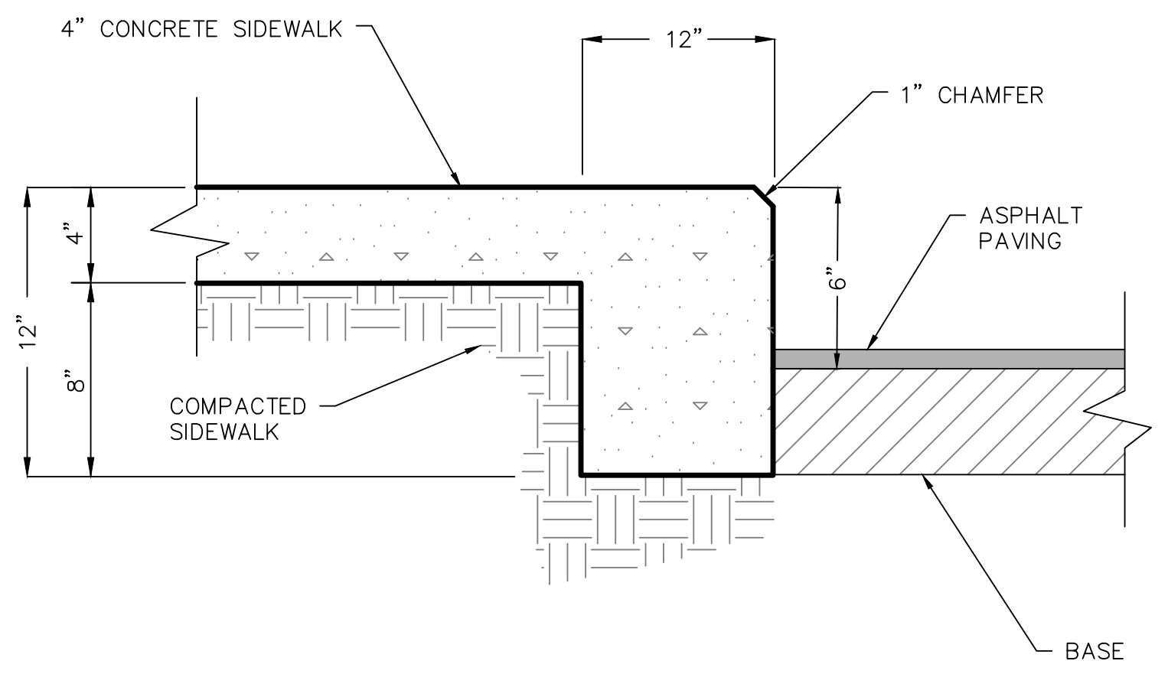
ACCESSIBLE PARKING DETAIL

NOTES:
1. ALL CONCRETE SHALL BE 3,000 PSI.
2. PROVIDE CONTRACTION JOINTS EVERY TEN FEET (10').
3. PROVIDE EXPANSION JOINTS EVERY FIFTY (50') FEET AND AT ALL TANGENT POINTS.
4. PROVIDE EXPANSION JOINTS WHERE CURB ABUTS SIDEWALKS OR OTHER RIGID STRUCTURES.
5. EXPANSION JOINTS SHALL BE 1/2" WITH PRE–MOLDED JOINT FILLER.
6. TOOL ALL EXPOSED EDGES & JOINTS TO 1/4" RADIUS.
7. PROVIDE LIGHT BROOM FINISH.


1–1/2" ASPHALT PAVING
FINISHED GRADE
15"
COMPACTED SUBGRADE
12"

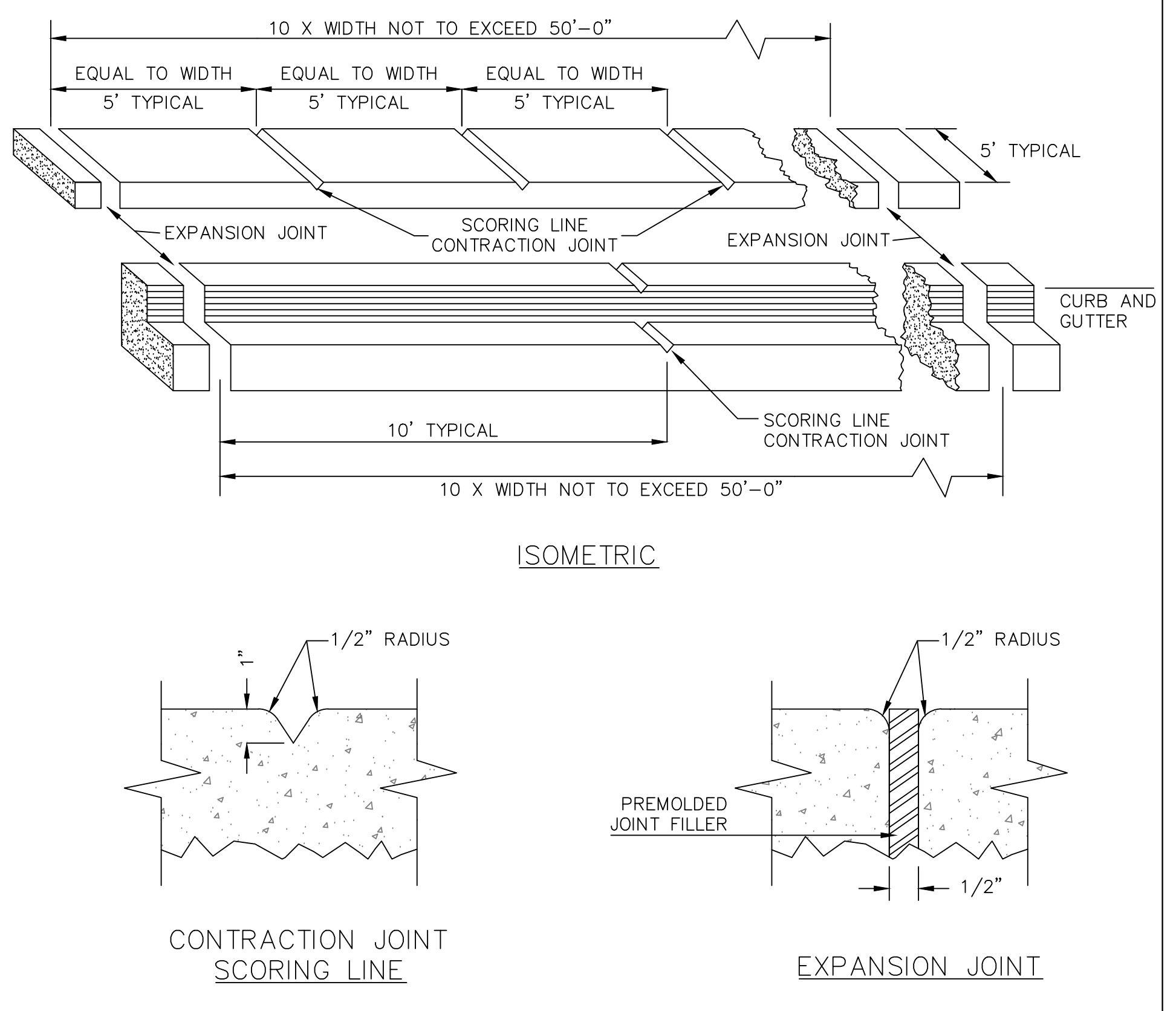
FLUSH HEADER CURB

DETAIL 03300-005


4" CONCRETE SIDEWALK
12"
1" CHAMFER
ASPHALT PAVING
12"
4"
8"
6"
COMPACTED SIDEWALK
BASE

6" VERTICAL TURNED-DOWN CURB

DETAIL 03300-003


10 X WIDTH NOT TO EXCEED 50'–0"
EQUAL TO WIDTH
5' TYPICAL
EQUAL TO WIDTH
5' TYPICAL
EQUAL TO WIDTH
5' TYPICAL
5' TYPICAL
EXPANSION JOINT
SCORING LINE CONTRACTION JOINT
EXPANSION JOINT
CURB AND GUTTER
10' TYPICAL
SCORING LINE CONTRACTION JOINT
10 X WIDTH NOT TO EXCEED 50'–0"
ISOMETRIC
1"
1/2" RADIUS
1/2" RADIUS
PREMOLDED JOINT FILLER
1/2"

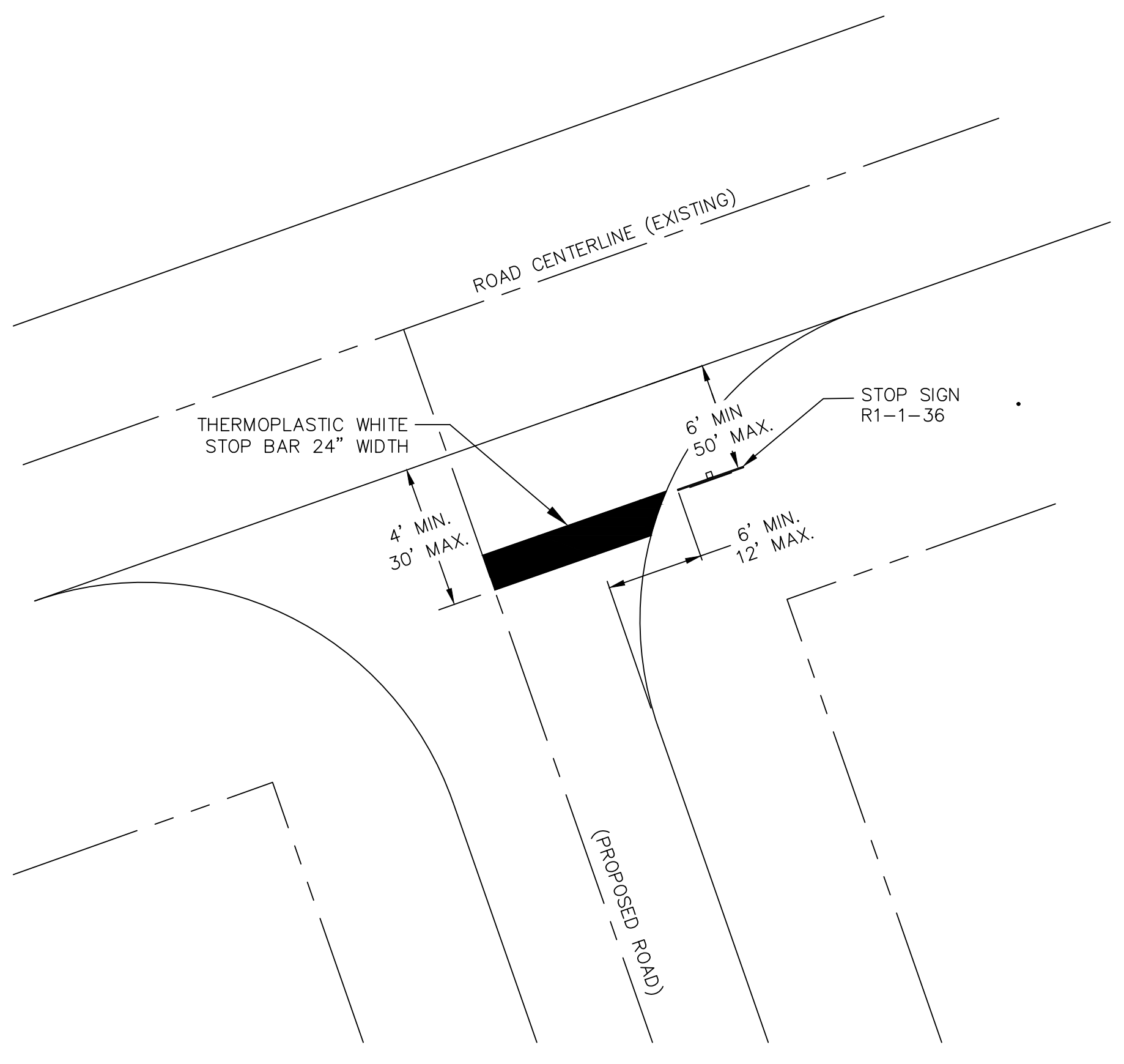
CONTRACTION JOINT
SCORING LINE

EXPANSION JOINT

NOTES:
1. EXPANSION JOINTS, 1/2 INCH THICK, SHALL BE PLACED IN THE SIDEWALK AND CURBING AT THE POINT OF CURVATURE (PC) AND POINT OF TANGENCY (PT) OF ALL CURVES, AT THE OUTER EDGES OF DRIVEWAYS, AND AT UNIFORM INTERVALS AS SHOWN. EXPANSION JOINTS SHALL MEET SCDOT SPECIFICATION SECTION 702.2.2.1.
2. TRANSVERSE SCORING LINES (CONTRACTION JOINTS) IN THE SIDEWALK SHALL BE PLACED BETWEEN EXPANSION JOINTS AT UNIFORM INTERVALS EQUAL TO THE WIDTH OF THE WALK AS SHOWN.
3. LONGITUDINAL SCORING LINES WILL BE REQUIRED IN WALKS WIDER THAN 5 FEET OR AS DIRECTED BY THE ENGINEER.
4. TRANSVERSE CONTRACTION JOINTS IN THE CURBING SHALL BE PLACED BETWEEN EXPANSION JOINTS AT UNIFORM 10' INTERVALS.
5. TRANSVERSE AND LONGITUDINAL SCORING LINES SHALL BE A DEPTH OF 1" AND NOT LESS THAN 1/4 INCH OR MORE THAN 1/2 INCH IN WIDTH. THE CORNERS OF THE SCORING LINES SHALL HAVE A 1/2 INCH MINIMUM RADII.
6. JOINTS IN THE CURB AND GUTTER SHALL ALIGN WITH CORRESPONDING JOINTS IN THE SIDEWALK.

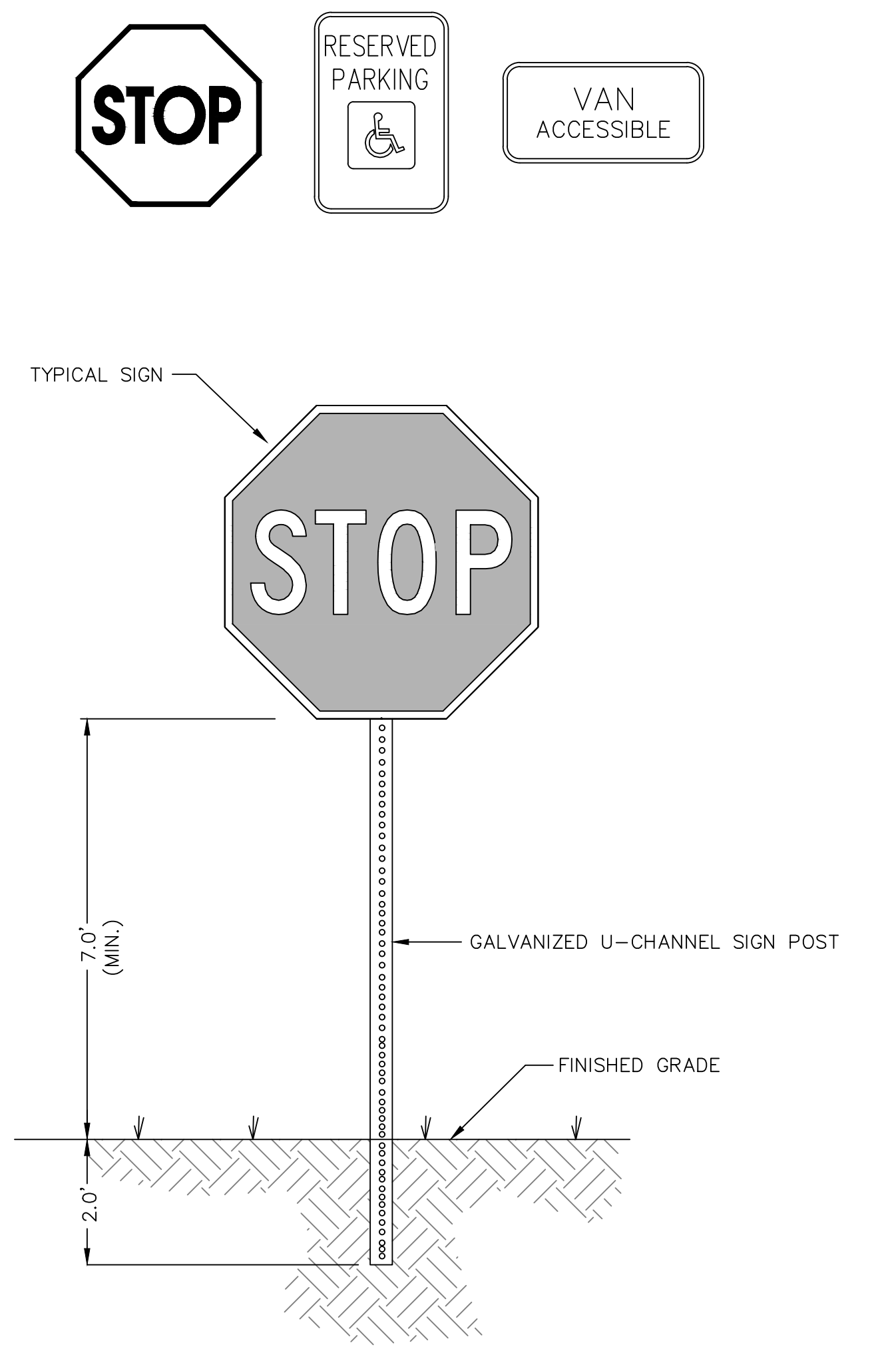
EXPANSION JOINTS AND SCORING LINES

DETAIL 03300-007A


ROAD CENTERLINE (EXISTING)
THERMOPLASTIC WHITE STOP BAR 24" WIDTH
6' MIN 50' MAX.
STOP SIGN R1–1–36
4' MIN. 30' MAX.
6' MIN. 12' MAX.
(PROPOSED ROAD)

TYPICAL STOP SIGN & STOP BAR STRIPING AT INTERSECTION

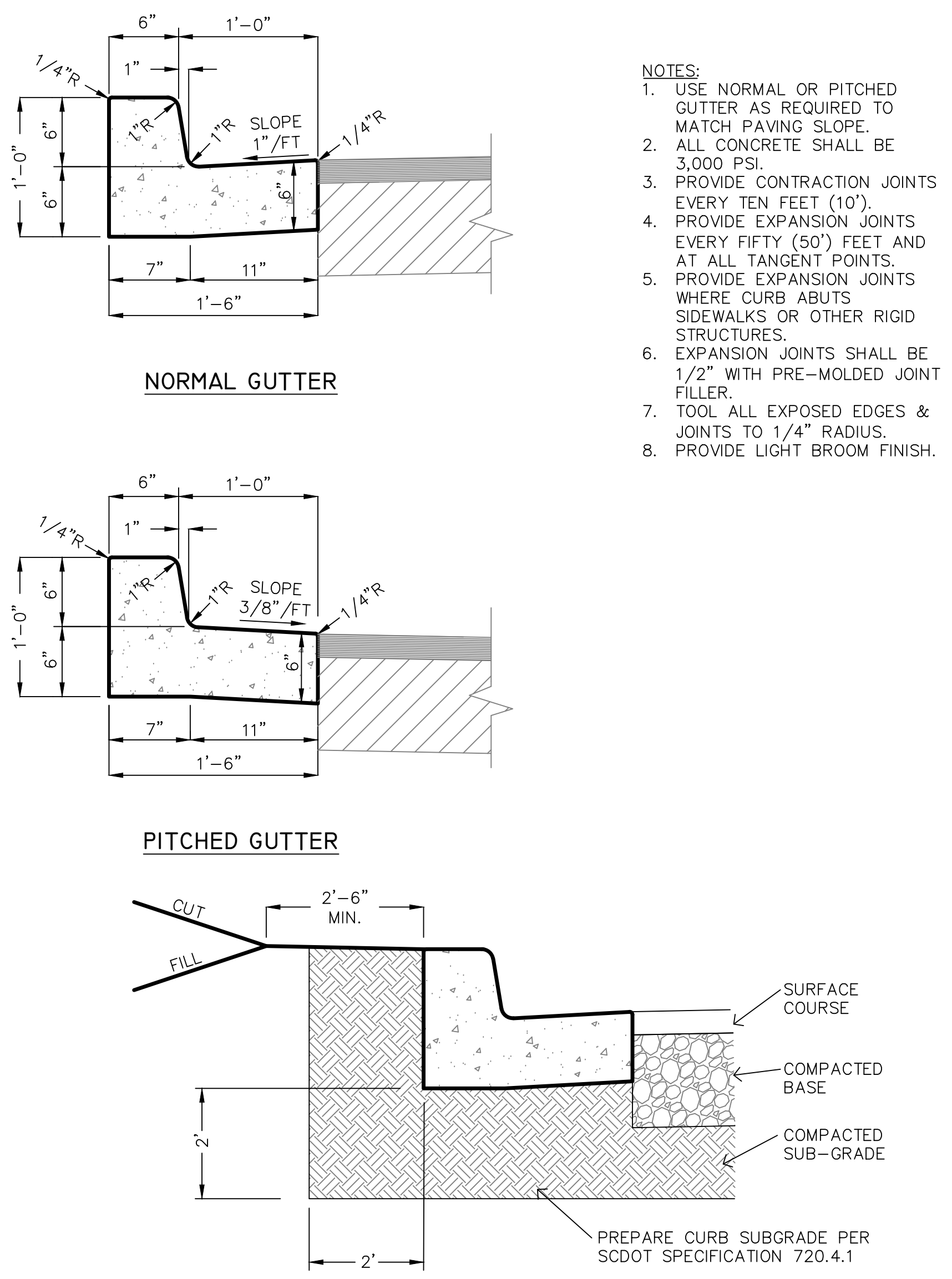
DETAIL #02740-018


STOP
RESERVED PARKING
VAN ACCESSIBLE
TYPICAL SIGN
STOP
7.0' (MIN.)
GALVANIZED U–CHANNEL SIGN POST
FINISHED GRADE
2.0'

NOTE:
- ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (LATEST EDITION) AND THE DEPARTMENT OF TRANSPORTATION STANDARDS AT THE LOCATIONS SHOWN ON THE PLANS.
- BOTTOM OF ALL SIGNAGE TO BE AT 7' ABOVE GRADE, SIGN POSTS TO REMAIN AT LEAST 2' AWAY FROM EDGE OF SIDEWALKS

TYPICAL SIGNAGE

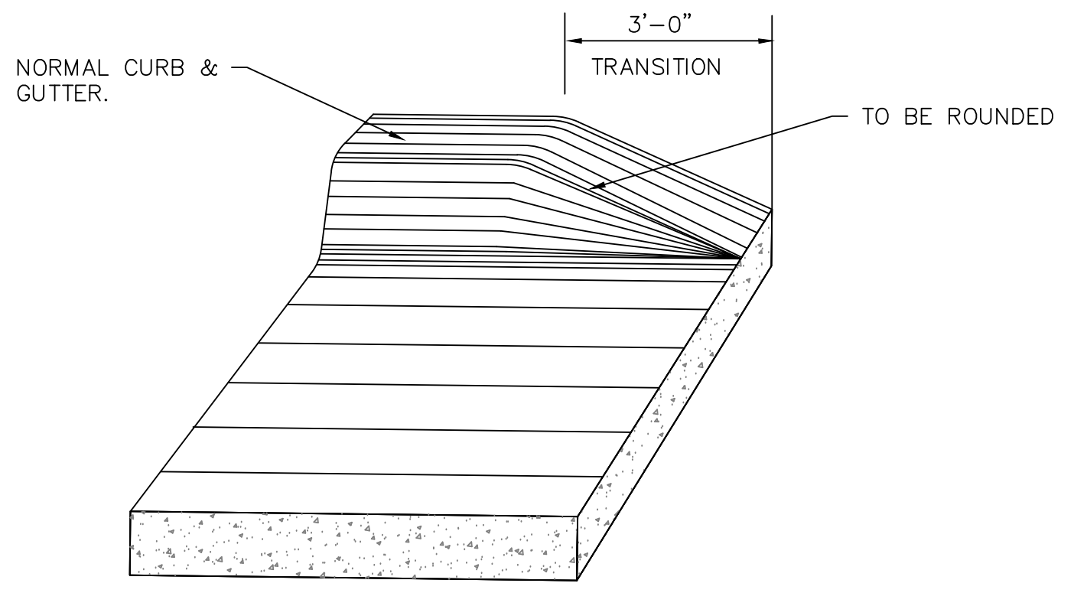
DETAIL #02890-002A


6"
1'–0"
1/4"R
1"
1"R
1"R
SLOPE 1"/FT
1/4"R
1'–0"
6"
6"
6"
7"
11"
1'–6"
NORMAL GUTTER
6"
1'–0"
1/4"R
1"
1"R
1"R
SLOPE 3/8"/FT
1/4"R
1'–0"
6"
6"
6"
7"
11"
1'–6"
PITCHED GUTTER
CUT
FILL
2'–6" MIN.
SURFACE COURSE
COMPACTED BASE
COMPACTED SUB–GRADE
2'
2'
PREPARE CURB SUBGRADE PER SCDOT SPECIFICATION 720.4.1

NOTES:
1. USE NORMAL OR PITCHED GUTTER AS REQUIRED TO MATCH PAVING SLOPE.
2. ALL CONCRETE SHALL BE 3,000 PSI.
3. PROVIDE CONTRACTION JOINTS EVERY TEN FEET (10').
4. PROVIDE EXPANSION JOINTS EVERY FIFTY (50') FEET AND AT ALL TANGENT POINTS.
5. PROVIDE EXPANSION JOINTS WHERE CURB ABUTS SIDEWALKS OR OTHER RIGID STRUCTURES.
6. EXPANSION JOINTS SHALL BE 1/2" WITH PRE–MOLDED JOINT FILLER.
7. TOOL ALL EXPOSED EDGES & JOINTS TO 1/4" RADIUS.
8. PROVIDE LIGHT BROOM FINISH.

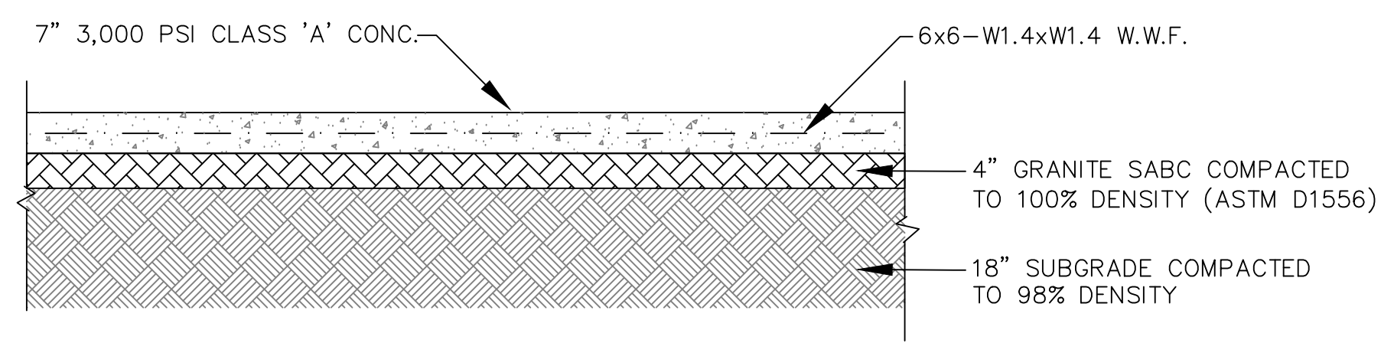
18" CURB AND GUTTER

DETAIL 03300-004A


NORMAL CURB & GUTTER.
3'–0"
TRANSITION
TO BE ROUNDED

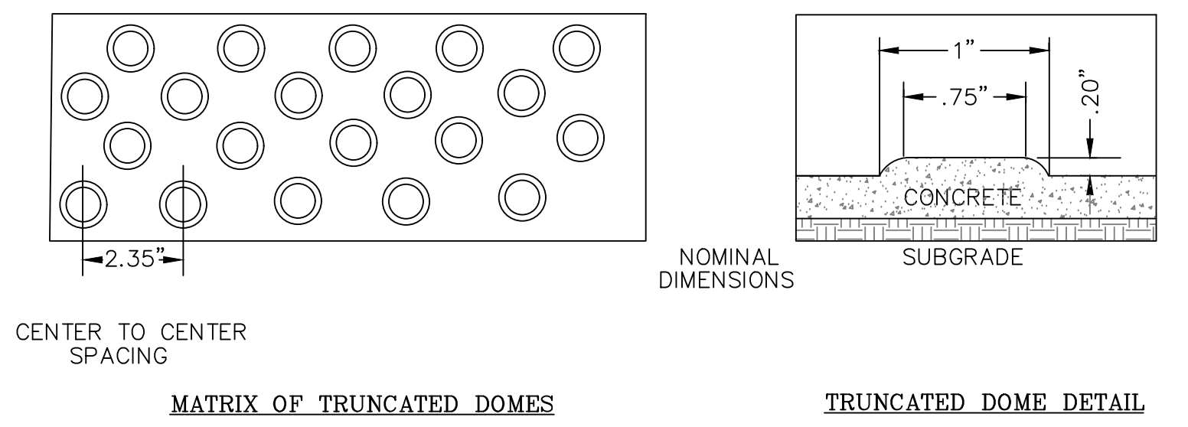
CURB AND GUTTER TRANSITION DETAIL

DETAIL 03300-020


7" 3,000 PSI CLASS 'A' CONC.
6x6–W1.4xW1.4 W.W.F.
4" GRANITE SABC COMPACTED TO 100% DENSITY (ASTM D1556)
18" SUBGRADE COMPACTED TO 98% DENSITY

HEAVY DUTY CONCRETE PAVING SECTION

DETAIL #03300-034


2.35"
CENTER TO CENTER SPACING
NOMINAL DIMENSIONS
1"
.75"
.20"
CONCRETE
SUBGRADE

MATRIX OF TRUNCATED DOMES

TRUNCATED DOME DETAIL

NOTE: Detectable Warning Pavement shall be constructed where shown on the plans as a cost in place colored concrete system, and shall meet the nominal dimensional and color contrast requirements of Section 4.29.2 of Title III of the Americans With Disabilities Act. The color of the detectable warning pavement shall be selected by the Architect. The concrete surface shall be broom–finished for increased slip–resistance.
COORDINATE COLOR SELECTION WITH ARCHITECT

DETECTABLE WARNING PAVEMENT

DETAIL 02740-012

Permit Set - NOT FOR CONSTRUCTION

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WARD EDWARDS
119 PALMETTO WAY
UNIT C
BLUFFTON, SC 29910
843-837-5250

LANDSCAPE
WITMER JONES KEEFER
23 PROMENADE STREET
SUITE 201
BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
DALLAS, TX 75201
704-961-9203

MEP/FP/LV
DWG CONSULTING ENGINEERS
1009 ANNA KNAPP BOULEVARD
SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141

No. 22816
01/23/26
PAUL R. MOORE

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Ward Edwards ENGINEERING
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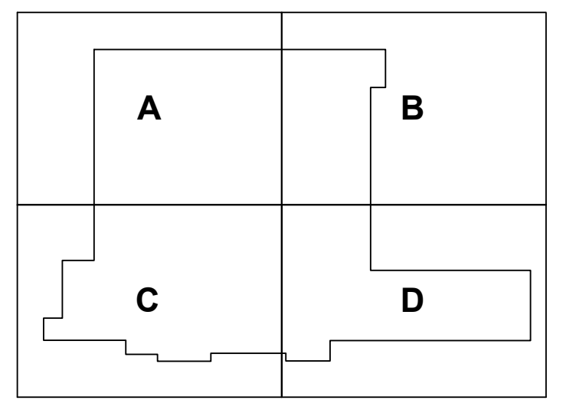
KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

INTERIM REVIEW
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CLIENT
NOVANT HEALTH

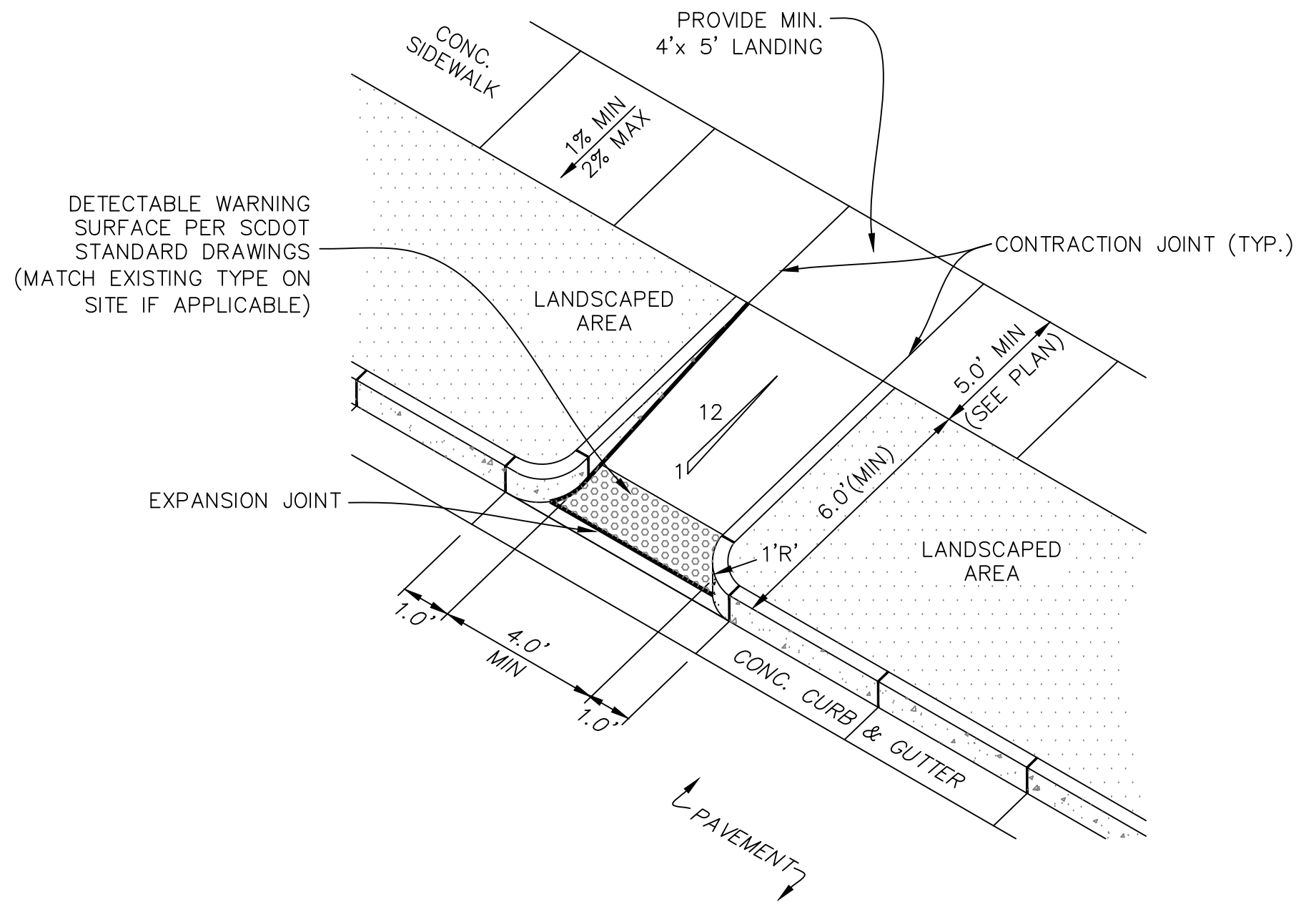
PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER 400501008
ABBREVIATION BLUFFTON HOSPITAL
DRAWN BY GFONSECA
CHECKED BY LKINCAID
ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
PAVING DETAILS

SHEET NUMBER
C-903

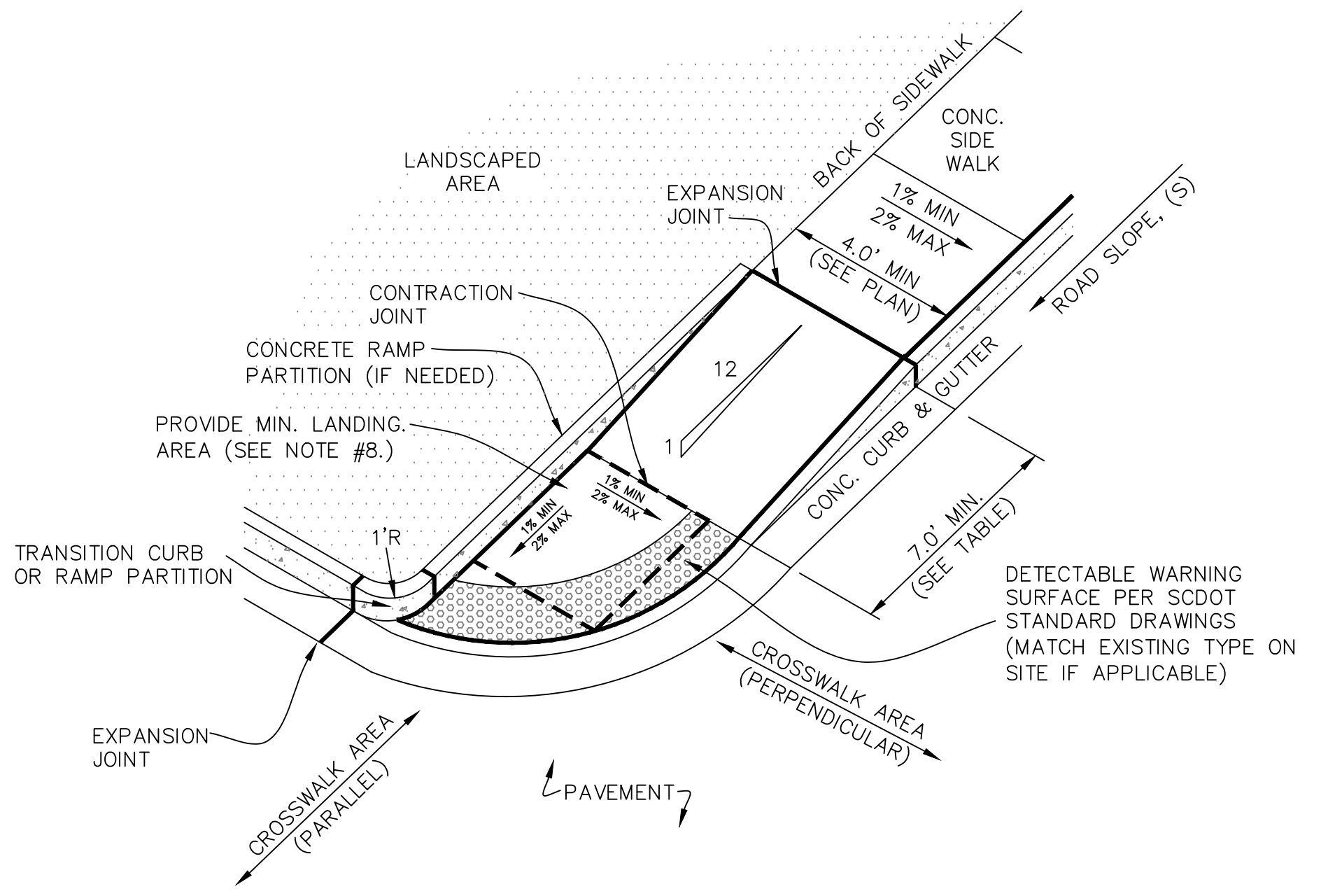
ATTACHMENT 7


CONC. SIDEWALK
1% MIN
2% MAX
PROVIDE MIN. 4'x 5' LANDING
DETECTABLE WARNING SURFACE PER SCDOT STANDARD DRAWINGS (MATCH EXISTING TYPE ON SITE IF APPLICABLE)
CONTRACTION JOINT (TYP.)
LANDSCAPED AREA
12
1
5.0' MIN (SEE PLAN)
6.0'(MIN)
EXPANSION JOINT
1'R'
LANDSCAPED AREA
1.0'
4.0' MIN
1.0'
CONC. CURB & GUTTER
PAVEMENT

NOTES:
1. ALL CONCRETE SHALL BE CLASS A, 3,000 PSI.
2. REFER TO STANDARD DETAILS FOR SIDEWALKS, CURB & GUTTER, AND CONCRETE JOINTS.
3. CURB RAMP SHALL BE BROOM–FINISHED TO PROVIDE A ROUGH, SKID–RESISTANT SURFACE. ALL JOINTS AND EDGES SHALL BE HAND TOOLED.
4. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA. THE SURFACE OF THE RAMP SHALL BE FLUSH WITH THE FLOWLINE OF THE CURB AND GUTTER.
5. PLACE DETECTABLE WARNING IN LINE AND FLUSH WITH BACK OF "DROPPED CURB".
6. SIDE SLOPES OF THE RAMP ARE NOT TO EXCEED 12:1 (8.33%) AT ANY LOCATION WHERE PEDESTRIAN TRAFFIC CROSSES THE RAMP.
7. CROSS SLOPES OF SIDEWALK, RAMP, AND LANDING TO BE BETWEEN 100:1 (1%) AND 50:1 (2%).

CONCRETE CURB RAMP- TYPE D

DETAIL 03300-033

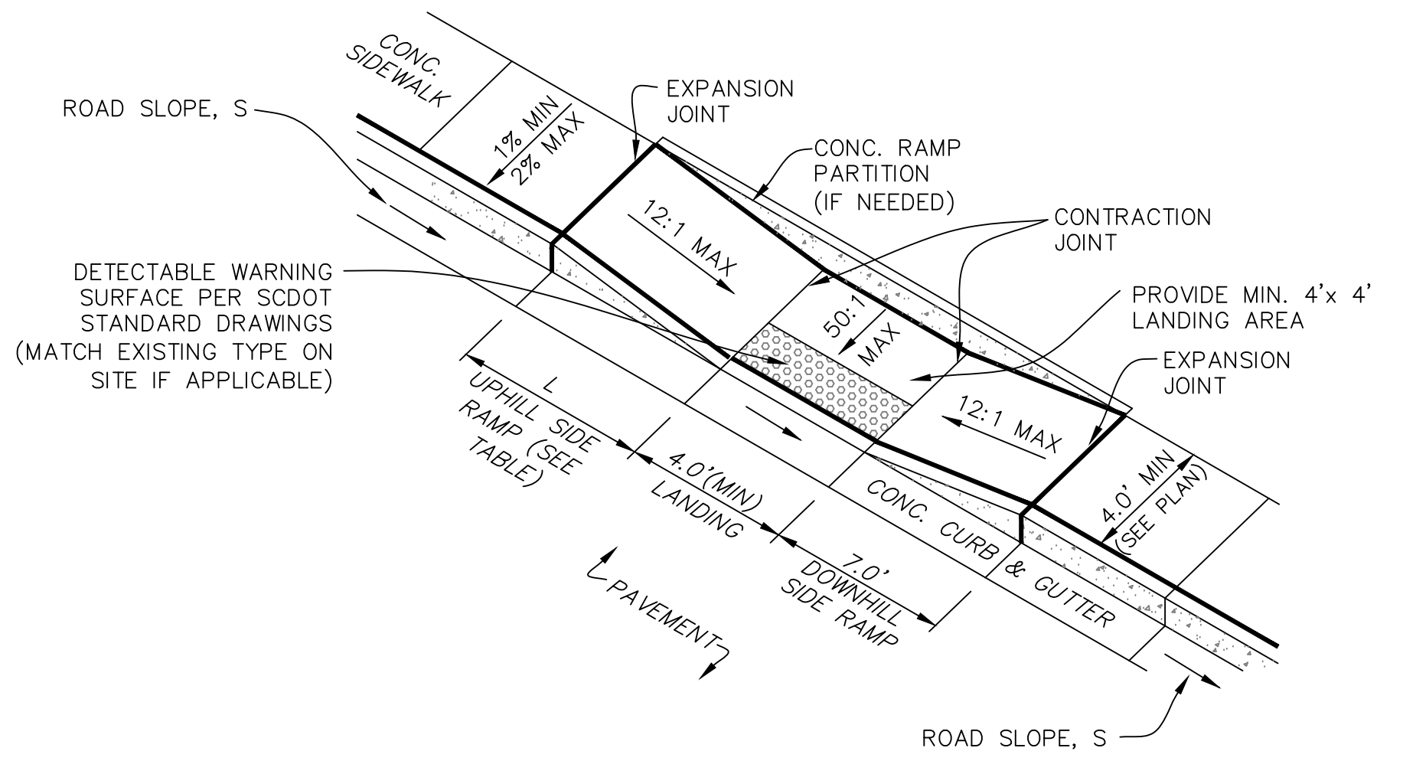

LANDSCAPED AREA
BACK OF SIDEWALK
CONC. SIDE WALK
EXPANSION JOINT
1% MIN
2% MAX
4.0' MIN (SEE PLAN)
ROAD SLOPE, (S)
CONTRACTION JOINT
CONCRETE RAMP PARTITION (IF NEEDED)
PROVIDE MIN. LANDING. AREA (SEE NOTE #8.)
12
1
CONC. CURB & GUTTER
1% MIN
2% MAX
1'R
TRANSITION CURB OR RAMP PARTITION
7.0' MIN. (SEE TABLE)
DETECTABLE WARNING SURFACE PER SCDOT STANDARD DRAWINGS (MATCH EXISTING TYPE ON SITE IF APPLICABLE)
CROSSWALK AREA (PERPENDICULAR)
EXPANSION JOINT
CROSSWALK AREA (PARALLEL)
PAVEMENT

ROAD SLOPE, S (%)	L, (UPHILL SIDE RAMP), [FT]
S ≤ 1%	7'–0"
1% < S ≤ 3%	10'–0"
S > 3%	15'–0"

NOTES:
1. ALL CONCRETE SHALL BE CLASS A, 3,000 PSI.
2. REFER TO STANDARD DETAILS FOR SIDEWALKS, CURB & GUTTER, AND CONCRETE JOINTS.
3. CURB RAMP SHALL BE BROOM–FINISHED TO PROVIDE A ROUGH, SKID–RESISTANT SURFACE. ALL JOINTS AND EDGES SHALL BE HAND TOOLED.
4. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA. THE SURFACE OF THE RAMP SHALL BE FLUSH WITH THE FLOWLINE OF THE CURB AND GUTTER.
5. PLACE DETECTABLE WARNING IN LINE AND FLUSH WITH BACK OF "DROPPED CURB".
6. SIDE SLOPES OF THE RAMP ARE NOT TO EXCEED 12:1 (8.33%) AT ANY LOCATION WHERE PEDESTRIAN TRAFFIC CROSSES THE RAMP.
7. CROSS SLOPES OF SIDEWALK, RAMP, AND LANDING TO BE BETWEEN 100:1 (1%) AND 50:1 (2%).
8. IF CROSSWALK IS PARALLEL WITH WALK, A MIN. LANDING OF 4'x 4' MUST BE PROVIDED. HOWEVER, IF THE CROSSWALK IS PERPENDICULAR TO THE WALK, A MIN. LANDING OF 5'x 5' MUST BE PROVIDED

CONCRETE CURB RAMP TYPE-C

DETAIL 03300-031

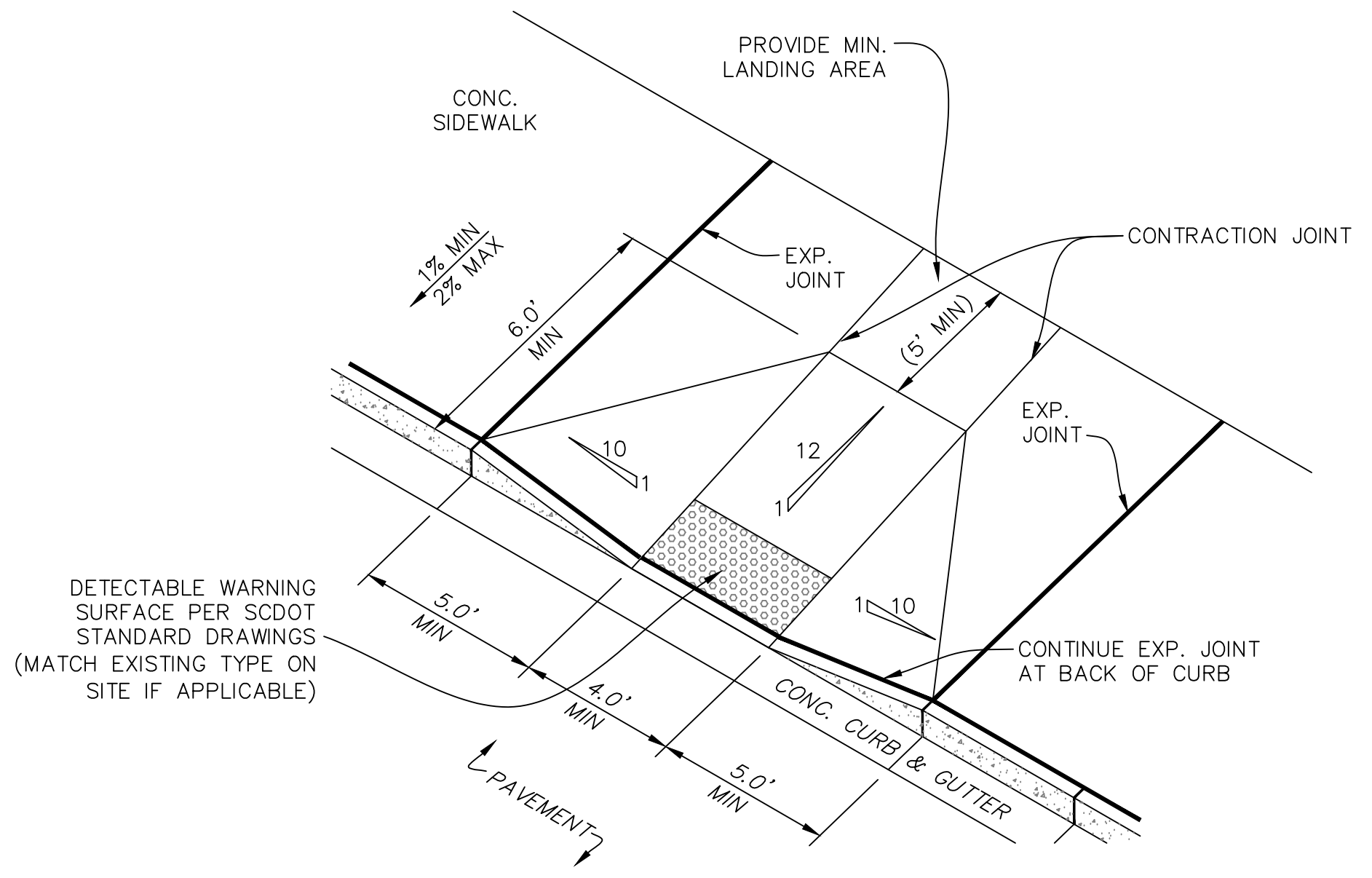

ROAD SLOPE, S
CONC. SIDEWALK
1% MIN
2% MAX
EXPANSION JOINT
CONC. RAMP PARTITION (IF NEEDED)
CONTRACTION JOINT
12:1 MAX
DETECTABLE WARNING SURFACE PER SCDOT STANDARD DRAWINGS (MATCH EXISTING TYPE ON SITE IF APPLICABLE)
50:1 MAX
PROVIDE MIN. 4'x 4' LANDING AREA
EXPANSION JOINT
12:1 MAX
L
UPHILL SIDE RAMP (SEE TABLE)
4.0'(MIN) LANDING
7.0' DOWNHILL SIDE RAMP
CONC. CURB & GUTTER
4.0' MIN (SEE PLAN)
PAVEMENT
ROAD SLOPE, S

ROAD SLOPE, S (%)	L, (UPHILL SIDE RAMP), [FT]
S ≤ 1%	7'–0"
1% < S ≤ 3%	10'–0"
S > 3%	15'–0"

NOTES:
1. ALL CONCRETE SHALL BE CLASS A, 3,000 PSI.
2. REFER TO STANDARD DETAILS FOR SIDEWALKS, CURB & GUTTER, AND CONCRETE JOINTS.
3. CURB RAMP SHALL BE BROOM–FINISHED TO PROVIDE A ROUGH, SKID–RESISTANT SURFACE. ALL JOINTS AND EDGES SHALL BE HAND TOOLED.
4. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA. THE SURFACE OF THE RAMP SHALL BE FLUSH WITH THE FLOWLINE OF THE CURB AND GUTTER.
5. PLACE DETECTABLE WARNING IN LINE AND FLUSH WITH BACK OF "DROPPED CURB".
6. SIDE SLOPES OF THE RAMP ARE NOT TO EXCEED 12:1 (8.33%) AT ANY LOCATION WHERE PEDESTRIAN TRAFFIC CROSSES THE RAMP.
7. CROSS SLOPES OF SIDEWALK, RAMP, AND LANDING TO BE BETWEEN 100:1 (1%) AND 50:1 (2%).

CONCRETE CURB RAMP TYPE-B

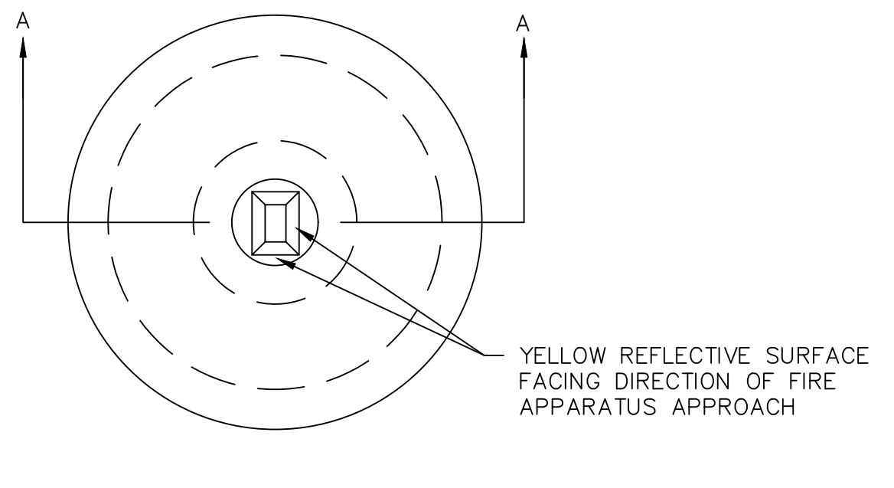
DETAIL 03300-029A


CONC. SIDEWALK
PROVIDE MIN. LANDING AREA
CONTRACTION JOINT
1% MIN
2% MAX
6.0' MIN
EXP. JOINT
(5' MIN)
EXP. JOINT
10
1
12
1
1
10
DETECTABLE WARNING SURFACE PER SCDOT STANDARD DRAWINGS (MATCH EXISTING TYPE ON SITE IF APPLICABLE)
CONTINUE EXP. JOINT AT BACK OF CURB
5.0' MIN
4.0' MIN
5.0' MIN
CONC. CURB & GUTTER
PAVEMENT

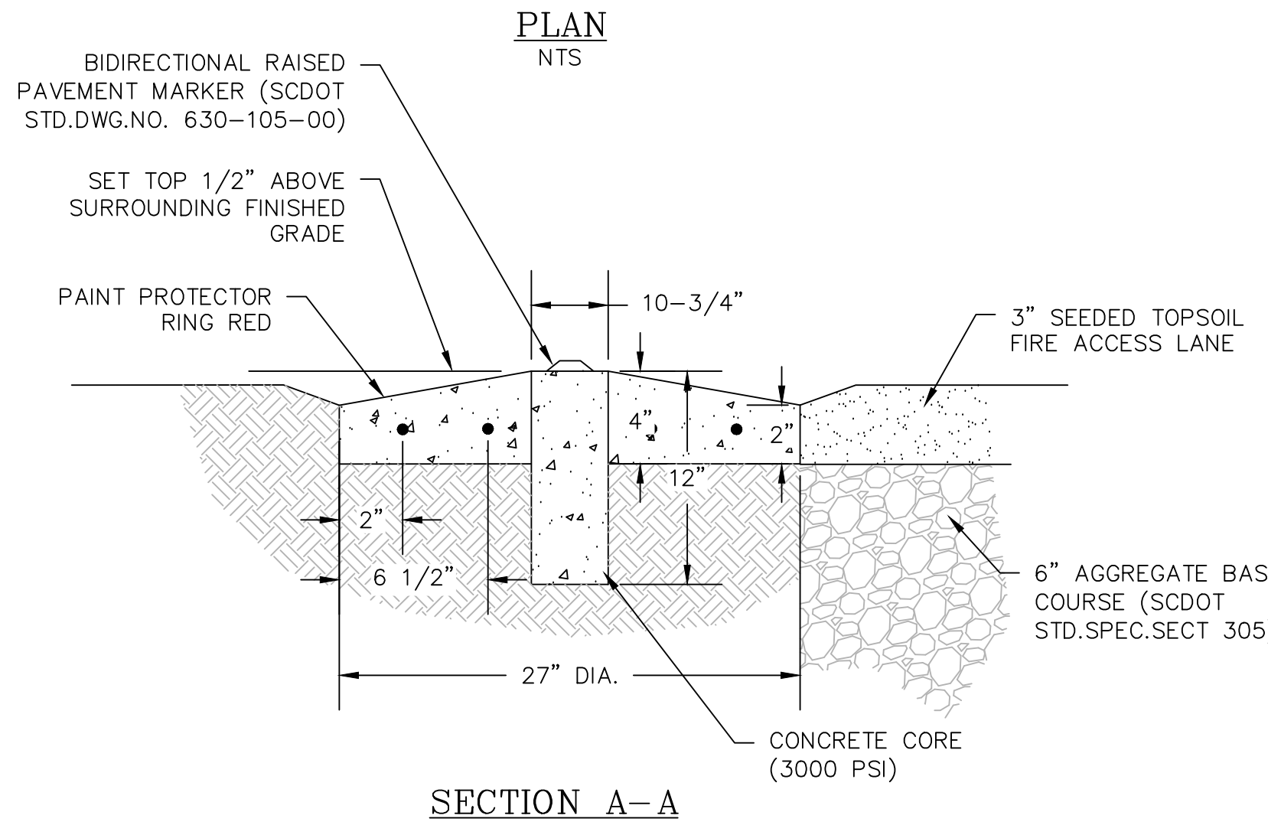
NOTES:
1. ALL CONCRETE SHALL BE CLASS A, 3,000 PSI.
2. REFER TO STANDARD DETAILS FOR SIDEWALKS, CURB & GUTTER, AND CONCRETE JOINTS.
3. CURB RAMP SHALL BE BROOM–FINISHED TO PROVIDE A ROUGH, SKID–RESISTANT SURFACE. ALL JOINTS AND EDGES SHALL BE HAND TOOLED.
4. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA. THE SURFACE OF THE RAMP SHALL BE FLUSH WITH THE FLOWLINE OF THE CURB AND GUTTER.
5. PLACE DETECTABLE WARNING IN LINE AND FLUSH WITH BACK OF "DROPPED CURB".
6. SIDE SLOPES OF THE RAMP ARE NOT TO EXCEED 12:1 (8.33%) AT ANY LOCATION WHERE PEDESTRIAN TRAFFIC CROSSES THE RAMP.
7. CROSS SLOPES OF SIDEWALK, RAMP, AND LANDING TO BE BETWEEN 100:1 (1%) AND 50:1 (2%).

CONCRETE CURB RAMP-TYPE A

DETAIL 03300-028


A
A
YELLOW REFLECTIVE SURFACE FACING DIRECTION OF FIRE APPARATUS APPROACH

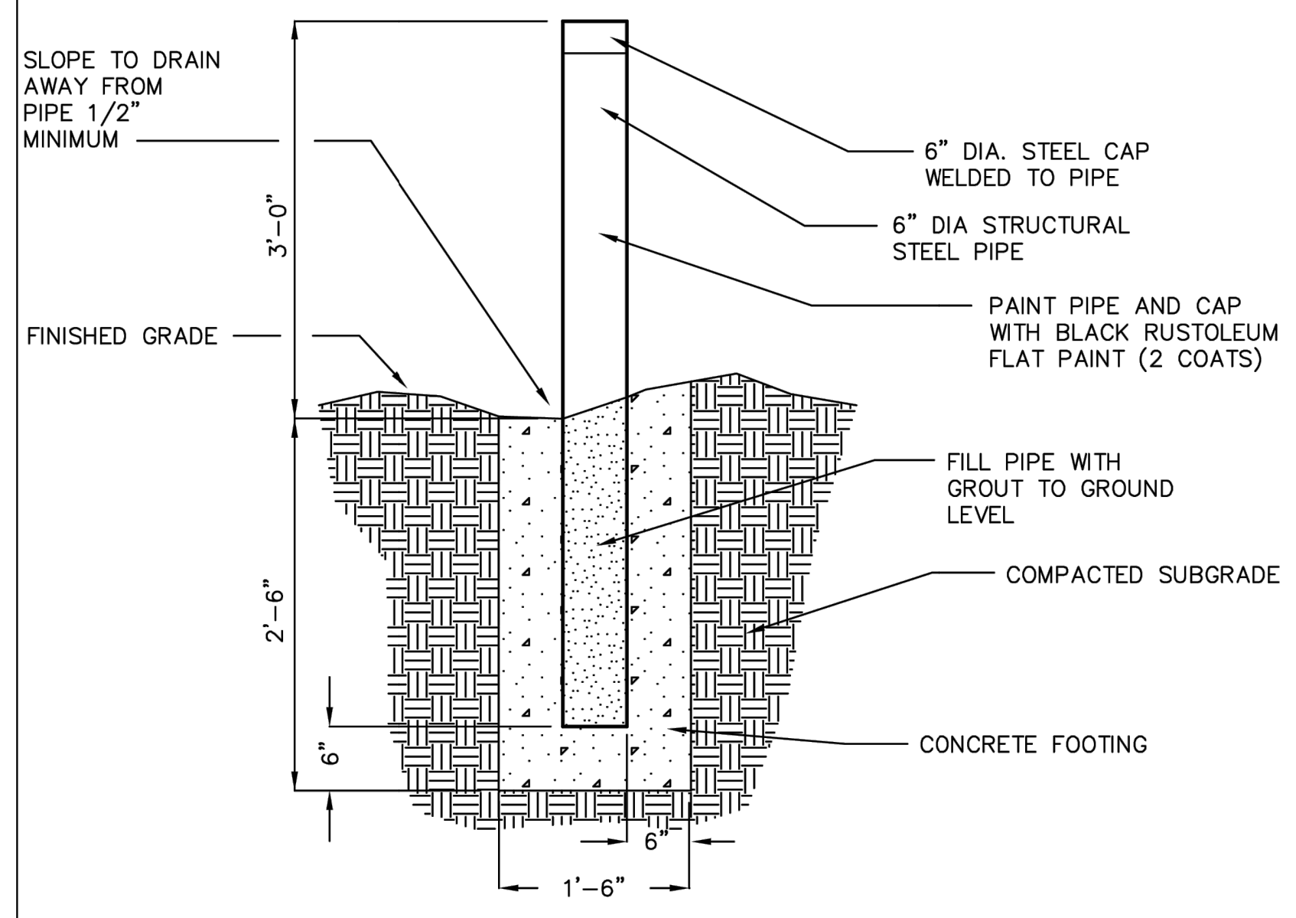
PLAN
NTS


BIDIRECTIONAL RAISED PAVEMENT MARKER (SCDOT STD.DWG.NO. 630–105–00)
SET TOP 1/2" ABOVE SURROUNDING FINISHED GRADE
PAINT PROTECTOR RING RED
10–3/4"
3" SEEDED TOPSOIL FIRE ACCESS LANE
4"
2"
12"
2"
6 1/2"
6" AGGREGATE BASE COURSE (SCDOT STD.SPEC.SECT 305)
27" DIA.
CONCRETE CORE (3000 PSI)

SECTION A–A
NTS

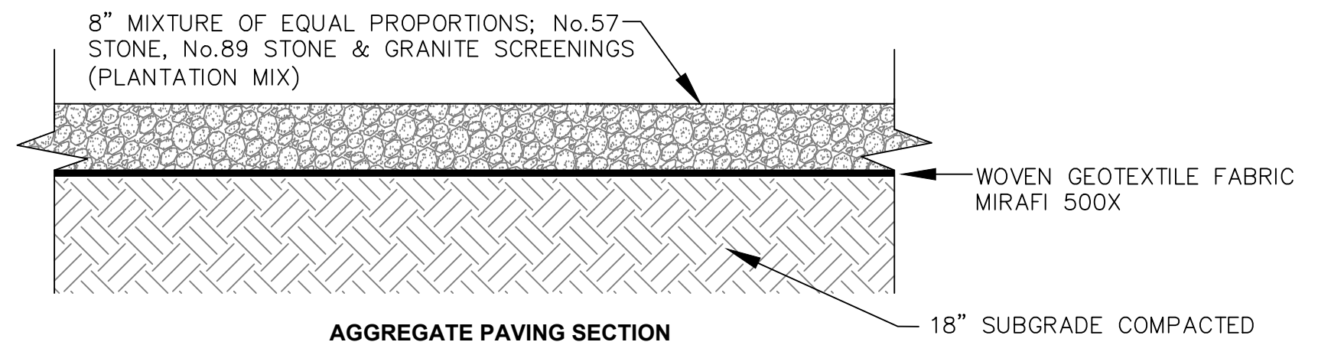
1. PRECAST CONCRETE PROCTOR RINGS SHALL BE INSTALLED WITH CONCRETE CORE IN UNPAVED NON–TRAFFIC AREAS ALONG FIRE LANE AND SHALL NOT CREATE A HINDRANCE TO FUTURE MOWING OPERATIONS.
2. CONCRETE PROTECTOR RING SHALL BE CONSTRUCTED OF 2500 PSI PRECAST REINFORCED CONCRETE.
3. BIDIRECTIONAL RAISED PAVEMENT MARKER SHALL BE ATTACHED TO CONCRETE CORE WITH ADHESIVE MATERIAL.

FIRE DEPT ACCESS LANE DELINEATOR

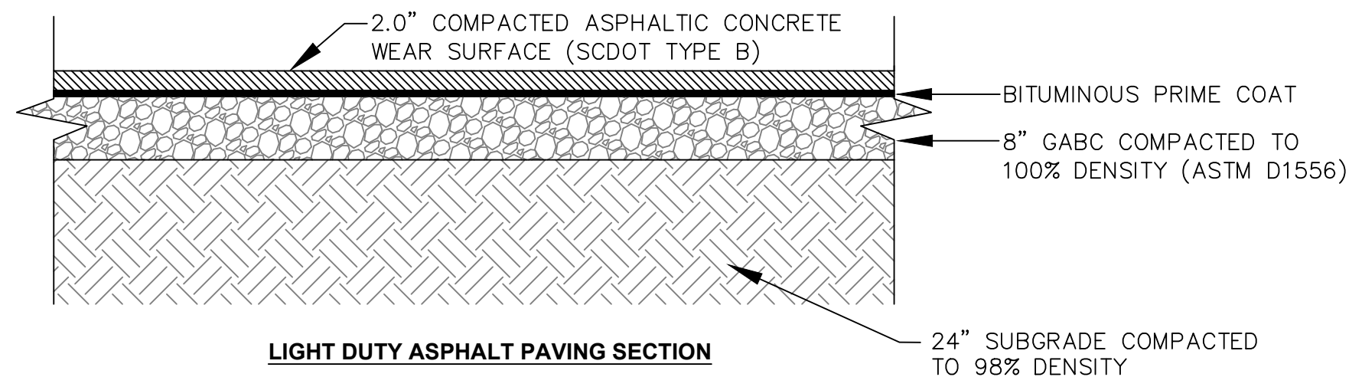

SLOPE TO DRAIN AWAY FROM PIPE 1/2" MINIMUM
3'–0"
FINISHED GRADE
6" DIA. STEEL CAP WELDED TO PIPE
6" DIA STRUCTURAL STEEL PIPE
PAINT PIPE AND CAP WITH BLACK RUSTOLEUM FLAT PAINT (2 COATS)
FILL PIPE WITH GROUT TO GROUND LEVEL
COMPACTED SUBGRADE
2'–6"
6"
CONCRETE FOOTING
6"
1'–6"

STEEL BOLLARD

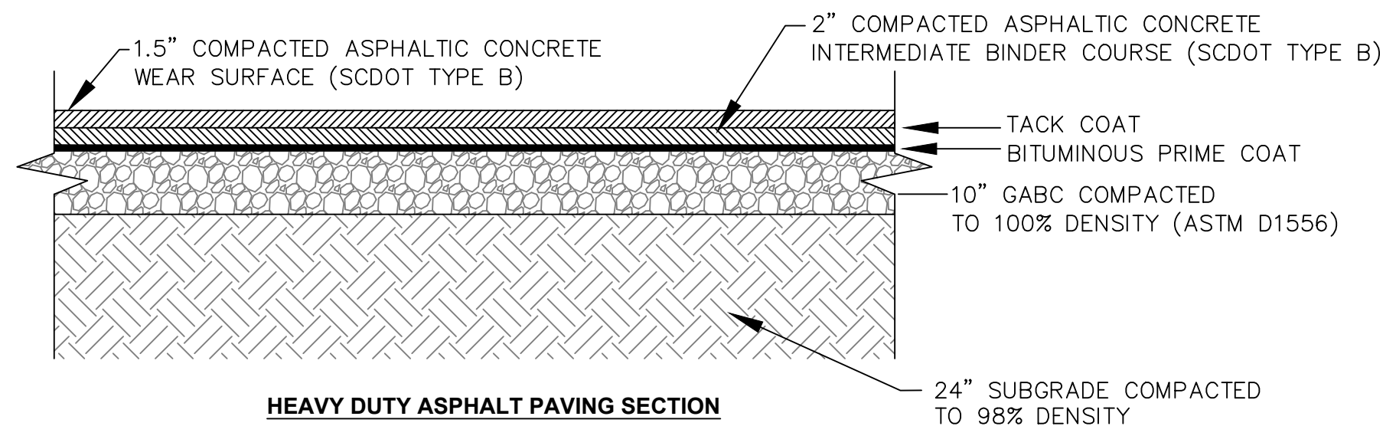
DETAIL 02820-005


8" MIXTURE OF EQUAL PROPORTIONS; No.57 STONE, No.89 STONE & GRANITE SCREENINGS (PLANTATION MIX)
WOVEN GEOTEXTILE FABRIC MIRAFI 500X
18" SUBGRADE COMPACTED TO 98% DENSITY

AGGREGATE PAVING SECTION


2.0" COMPACTED ASPHALTIC CONCRETE WEAR SURFACE (SCDOT TYPE B)
BITUMINOUS PRIME COAT
8" GABC COMPACTED TO 100% DENSITY (ASTM D1556)
24" SUBGRADE COMPACTED TO 98% DENSITY

LIGHT DUTY ASPHALT PAVING SECTION

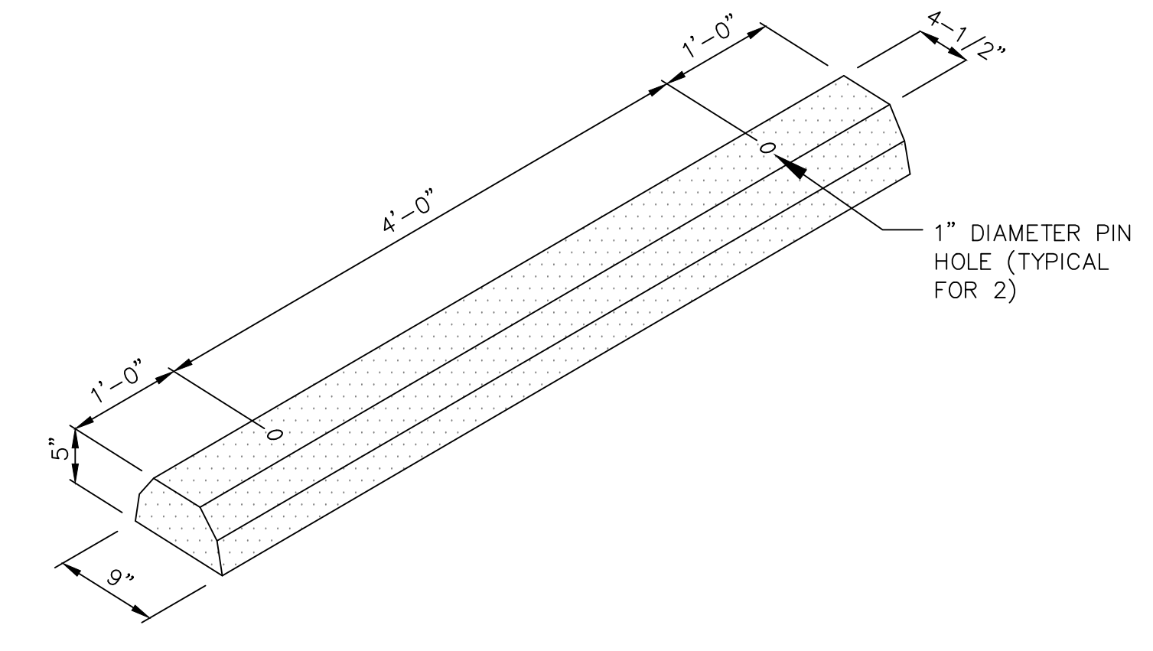

1.5" COMPACTED ASPHALTIC CONCRETE WEAR SURFACE (SCDOT TYPE B)
2" COMPACTED ASPHALTIC CONCRETE INTERMEDIATE BINDER COURSE (SCDOT TYPE B)
TACK COAT
BITUMINOUS PRIME COAT
10" GABC COMPACTED TO 100% DENSITY (ASTM D1556)
24" SUBGRADE COMPACTED TO 98% DENSITY

HEAVY DUTY ASPHALT PAVING SECTION

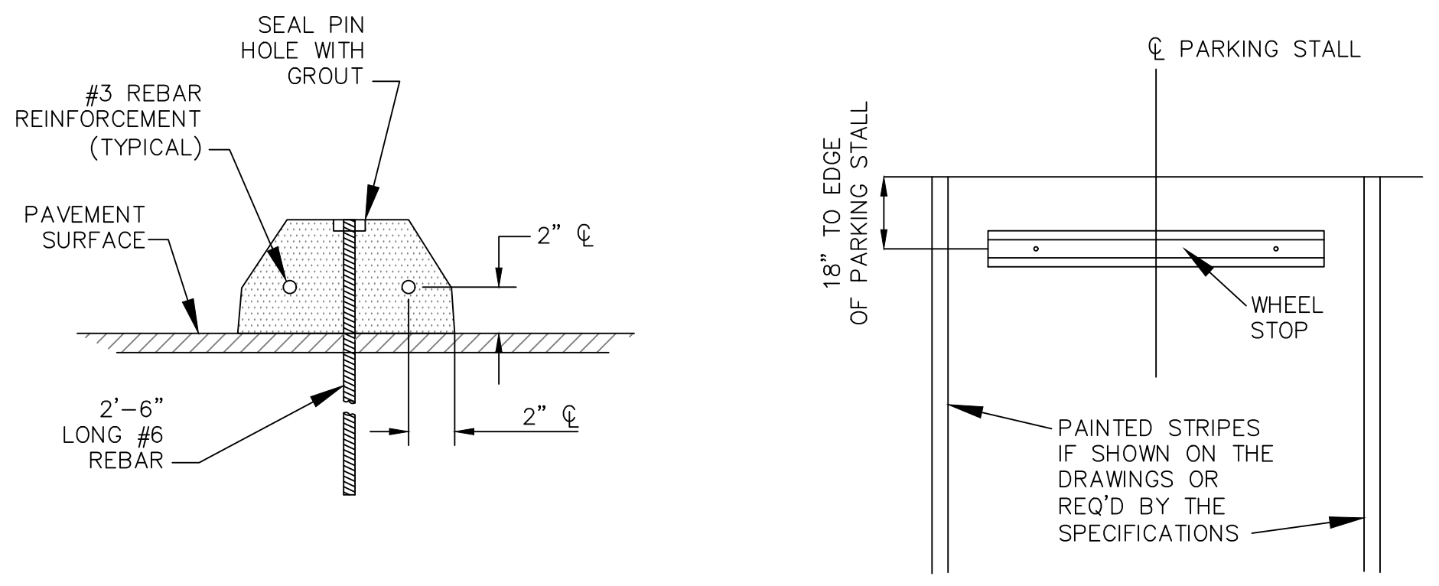
NOTE:
1. INSTALL PER THE "LOW IMPACT DEVELOPMENT IN COASTAL SOUTH CAROLINA GUIDE" AND PER ICPI SPECIFICATIONS.

TYPICAL PAVING SECTIONS

DETAIL 02740-016


1'–0"
4–1/2"
4'–0"
1" DIAMETER PIN HOLE (TYPICAL FOR 2)
1'–0"
5"
9"

ISOMETRIC


SEAL PIN HOLE WITH GROUT
#3 REBAR REINFORCEMENT (TYPICAL)
PAVEMENT SURFACE
2" ℄
2'–6" LONG #6 REBAR
2" ℄
℄ PARKING STALL
18" TO EDGE OF PARKING STALL
WHEEL STOP
PAINTED STRIPES IF SHOWN ON THE DRAWINGS OR REQ'D BY THE SPECIFICATIONS

SECTION

INSTALLATION PLAN

NOTES:
1. WHEEL STOPS SHALL BE STEEL REINFORCED PRECAST UNITS CONSISTING OF SCDOT CLASS 3000 CONCRETE, MINIMUM. ALTERNATE MATERIAL COMPOSITION MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
2. WHEEL STOPS SHALL BE INSTALLED PERPENDICULAR TO PARKING STALL AND SHALL BE PLACED A MINIMUM OF 18" FROM END OF PARKING STALL OR OBSTRUCTION.
3. ANCHORING PINS SHALL BE DRIVEN FLUSH TO THE TOP OF THE WHEEL STOP AND PIN HOLES SHALL BE GROUTED UPON INSTALLATION.

PRECAST CONCRETE WHEEL STOP

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SUITE 201
BLUFFTON, SC 29910
843-757-7411

STRUCTURAL
WALTER P MOORE
500 N. AKARD STREET
SUITE 2300
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704-961-9203

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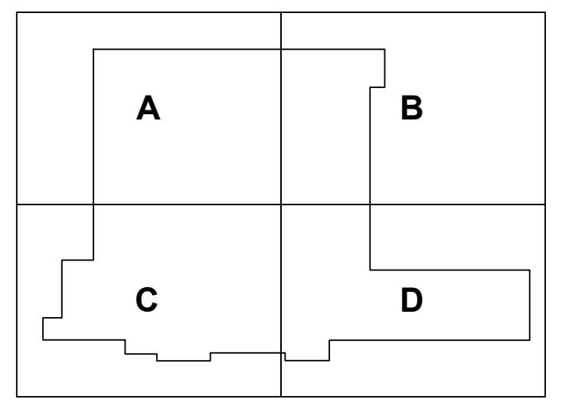
KEYPLAN



REVISION HISTORY

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL
DRAWN BY	CHECKED BY
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
PAVING DETAILS

SHEET NUMBER
C-904

ATTACHMENT 7

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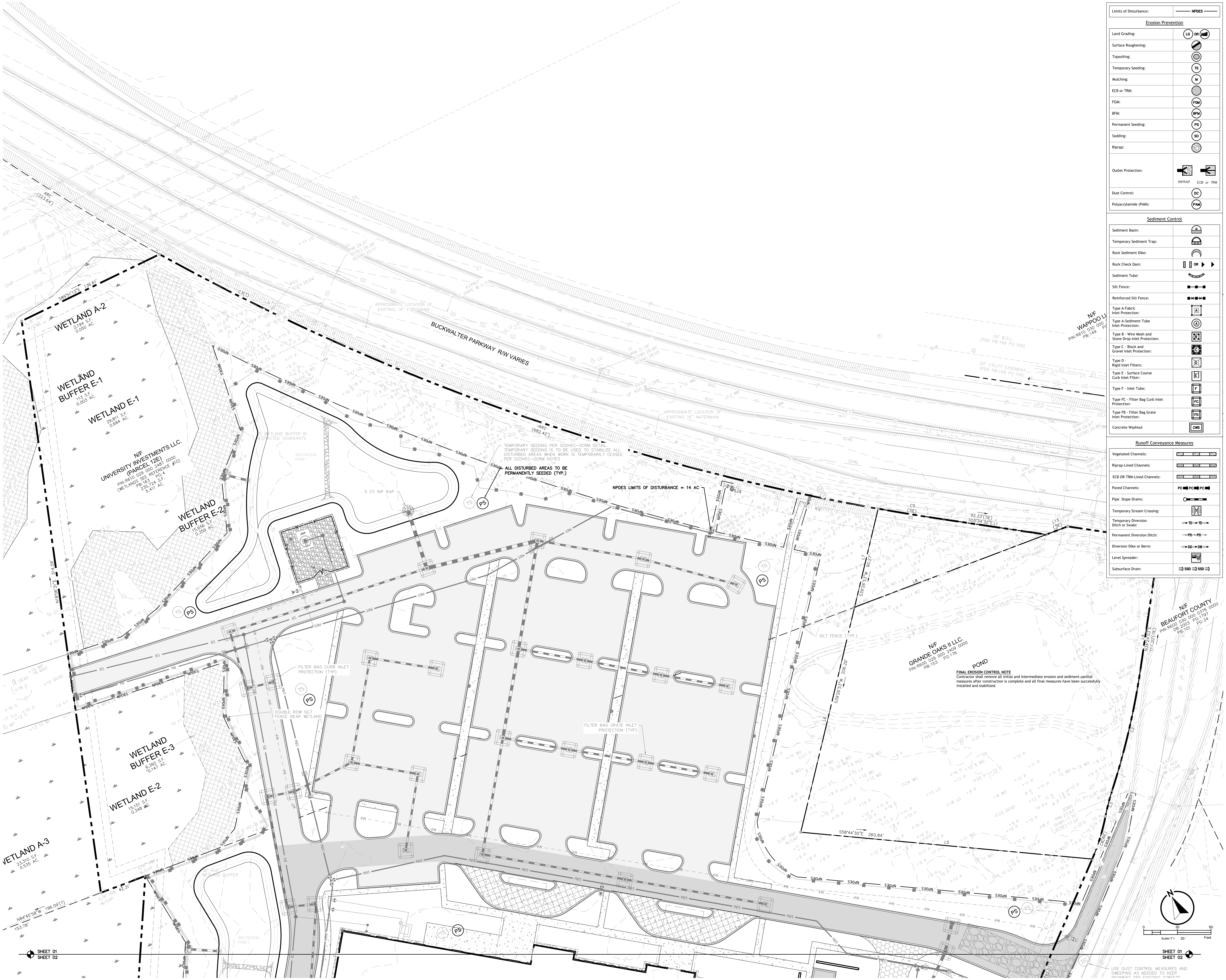
BUCKWALTER PARKWAY R/W VARIES
WETLAND A-2
2,194 S.F.
0.050 AC.
WETLAND BUFFER E-1
113 S.F.
0.003 AC.
WETLAND E-1
29,811 S.F.
0.684 AC.
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12E)
PIN:R610 029 000 2487 0000
(WETLANDS SEE REFERENCE #10)
PB:163 PG:4
235,724 S.F.
5.411 AC.
WETLAND BUFFER E-2
15,656 S.F.
0.359 AC.
WETLAND BUFFER E-3
6,392 S.F.
0.147 AC.
WETLAND E-2
15,151 S.F.
0.348 AC.
WETLAND A-3
23,310 S.F.
0.535 AC.
S89°51'13"E 136.61'
514.59'
N84°45'58"W 196.09'(T)
153.78'
42.31'
5/8" RBF W/CAP
ARC (682.42')
ARC (223.64')
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING 16" WATERMAIN
50' B.S.L. (PCR PB:149 PG:159)
20' UTILITY EASEMENT (PCR PB:149 PG:159)
N/F
WAPPOO LL
PIN:R610 030 000
PB:149
N/F
GRANDE OAKS II LLC.
PIN:R600 029 000 2409 0000
PB:153 PG:176
POND
N/F
BEAUFORT COUNTY
PIN:R600 030 000 0376 0000
DB:2003 PG:1797
PB:101 PG:24
C5 (TIE)
C1
92.33'(TIE)
S55°34'32"E L1
L13 (TIE)
L8
L7
S39°29'53"W 90.27'
L6
S39°29'53"W 206.29'
S58°44'30"E 260.84'
L5
C2
5 CY RIP RAP
SILT FENCE (TYP.)
FILTER BAG CURB INLET PROTECTION (TYP)
FILTER BAG GRATE INLET PROTECTION (TYP)
DOUBLE ROW SILT FENCE NEAR WETLAND
NPDES
TS
PS
DC
SHEET 01
SHEET 02
0
30
60
Scale:1"= 30 '
Feet

TEMPORARY SEEDING PER SCDHEC-OCRM DETAIL. TEMPORARY SEEDING IS TO BE USED TO STABILIZE ALL DISTURBED AREAS WHEN WORK IS TEMPORARILY CEASED PER SCDHEC-OCRM NOTES

ALL DISTURBED AREAS TO BE PERMANENTLY SEEDED (TYP.)

NPDES LIMITS OF DISTURBANCE = 14 AC

FINAL EROSION CONTROL NOTE

Contractor shall remove all initial and intermediate erosion and sediment control measures after construction is complete and all final measures have been successfully installed and stabilized.

USE DUST CONTROL MEASURES AND SWEEPING AS NEEDED TO KEEP SEDIMENT OFF EXISTING STREETS

Limits of Disturbance:	—— NPDES ——

Erosion Prevention

Land Grading:	LG OR
Surface Roughening:	▨
Topsoiling:	◎
Temporary Seeding:	TS
Mulching:	M
ECB or TRM:	▦
FGM:	FGM
BFM:	BFM
Permanent Seeding:	PS
Sodding:	SO
Riprap:	○
Outlet Protection:	RIPRAP ECB or TRM
Dust Control:	DC
Polyacrylamide (PAM):	PAM

Sediment Control

Sediment Basin:	◓
Temporary Sediment Trap:	◓
Rock Sediment Dike:	◠
Rock Check Dam:	▯ ▯ OR ▶ ▶
Sediment Tube:	◡
Silt Fence:	■—■—■
Reinforced Silt Fence:	■×■×■
Type A-Fabric Inlet Protection:	A
Type A-Sediment Tube Inlet Protection:	A
Type B - Wire Mesh and Stone Drop Inlet Protection:	B
Type C - Block and Gravel Inlet Protection:	C
Type D - Rigid Inlet Filters:	D
Type E - Surface Course Curb Inlet Filter:	E
Type F - Inlet Tube:	F
Type FC - Filter Bag Curb Inlet Protection:	FC
Type FB - Filter Bag Grate Inlet Protection:	FG
Concrete Washout	CWS

Runoff Conveyance Measures

Vegetated Channels:	▭
Riprap-Lined Channels:	▭
ECB OR TRM-Lined Channels:	▭
Paved Channels:	PC➡PC➡PC➡
Pipe Slope Drains:	○━━
Temporary Stream Crossing:	T
Temporary Diversion Ditch or Swale:	⇒TD⇒TD⇒
Permanent Diversion Ditch:	→PD→PD→
Diversion Dike or Berm:	⇒DD⇒DB⇒
Level Spreader:	▤
Subsurface Drain:	⇒SSD⇒SSD⇒

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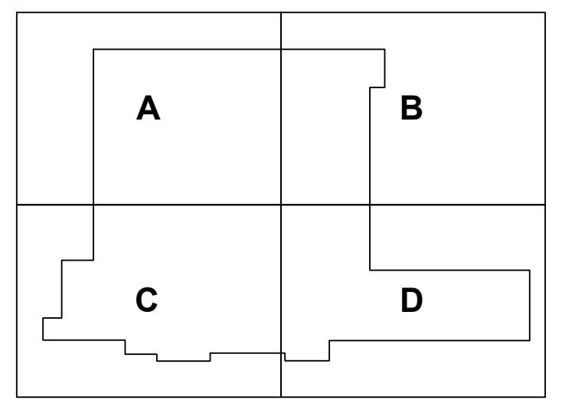

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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL

DRAWN BY	CHECKED BY
GFONSECA	LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
FINAL EROSION
CONTROL PLAN

SHEET NUMBER
C-1001

ATTACHMENT 7

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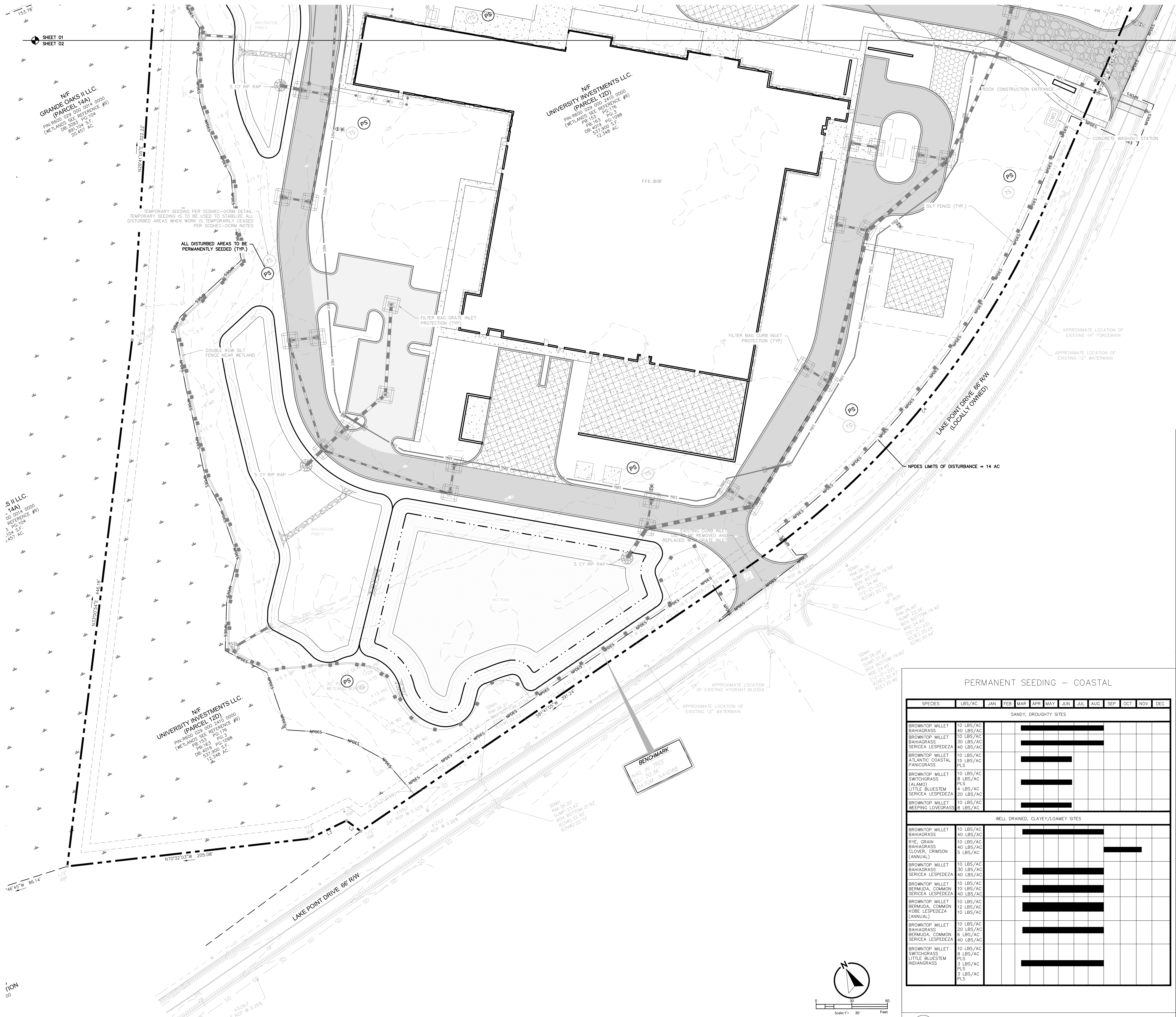
SHEET 01
SHEET 02
153.78'
N/F
GRANDE OAKS II LLC.
(PARCEL 14A)
PIN:R600 029 000 0014 0000
(WETLANDS SEE REFERENCE #9)
DB:3093 PG:104
891,104 S.F.
20.457 AC.
N29°41'05"E 322.22'
INFILTRATION POND 2
5 CY RIP RAP
TEMPORARY SEEDING PER SCDHEC–OCRM DETAIL. TEMPORARY SEEDING IS TO BE USED TO STABILIZE ALL DISTURBED AREAS WHEN WORK IS TEMPORARILY CEASED PER SCDHEC–OCRM NOTES
ALL DISTURBED AREAS TO BE PERMANENTLY SEEDED (TYP.)
DOUBLE ROW SILT FENCE NEAR WETLAND
FILTER BAG GRATE INLET PROTECTION (TYP)
N/F
UNIVERSITY INVESTMENTS LLC.
(PARCEL 12D)
PIN:R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB:153 PG:176
PB:163 PG:3
DB:4019 PG:1098
537,900 S.F.
12.348 AC.
F.F.E.: 30.00'
FILTER BAG CURB INLET PROTECTION (TYP)
ROCK CONSTRUCTION ENTRANCE
USE DUST CONTROL MEASURES AND SWEEPING AS NEEDED TO KEEP SEDIMENT OFF EXISTING STREETS.
CONCRETE WASHOUT STATION
SILT FENCE (TYP.)
S49°20'37"W 242.50'
16.5' BUFFER/33' SETBACK
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING 12" WATERMAIN
LAKE POINT DRIVE 66' R/W (LOCALLY OWNED)
NPDES LIMITS OF DISTURBANCE = 14 AC
NPDES
PS
TS
DC
CWS
N33°00'54"E 446.18'
INFILTRATION POND 3
WET POND
EXISTING CURB INLET LID TO BE REMOVED AND REPLACED WITH GRATE INLET
30' PLUS WETLAND BUFFER
S81°41'05"W 391.24'
APPROXIMATE LOCATION OF EXISTING HYDRANT BL0304
BENCHMARK
NAIL IN TREE
EL.: 30.36'
DATUM: NAVD88
N70°32'03"W 205.08'
86.14'
LAKE POINT DRIVE 66' R/W
N
0 30 60
Scale:1"= 30 ' Feet

FINAL EROSION CONTROL NOTE
Contractor shall remove all initial and intermediate erosion and sediment control measures after construction is complete and all final measures have been successfully installed and stabilized.

PERMANENT SEEDING — COASTAL

SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET BAHIAGRASS	10 LBS/AC 40 LBS/AC			■	■	■	■	■	■				
BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10 LBS/AC 30 LBS/AC 40 LBS/AC			■	■	■	■	■	■				
BROWNTOP MILLET ATLANTIC COASTAL PANICGRASS	10 LBS/AC 15 LBS/AC PLS			■	■	■	■						
BROWNTOP MILLET SWITCHGRASS (ALAMO) LITTLE BLUESTEM SERICEA LESPEDEZA	10 LBS/AC 8 LBS/AC PLS 4 LBS/AC 20 LBS/AC			■	■	■	■						
BROWNTOP MILLET WEEPING LOVEGRASS	10 LBS/AC 8 LBS/AC			■	■	■	■						
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET BAHIAGRASS	10 LBS/AC 40 LBS/AC			■	■	■	■	■	■				
RYE, GRAIN BAHIAGRASS CLOVER, CRIMSON (ANNUAL)	10 LBS/AC 40 LBS/AC 5 LBS/AC									■	■	■	
BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10 LBS/AC 30 LBS/AC 40 LBS/AC			■	■	■	■	■	■				
BROWNTOP MILLET BERMUDA, COMMON SERICEA LESPEDEZA	10 LBS/AC 10 LBS/AC 40 LBS/AC			■	■	■	■	■	■				
BROWNTOP MILLET BERMUDA, COMMON KOBE LESPEDEZA (ANNUAL)	10 LBS/AC 12 LBS/AC 10 LBS/AC			■	■	■	■	■	■				
BROWNTOP MILLET BAHIAGRASS BERMUDA, COMMON SERICEA LESPEDEZA	10 LBS/AC 20 LBS/AC 6 LBS/AC 40 LBS/AC			■	■	■	■	■	■				
BROWNTOP MILLET SWITCHGRASS LITTLE BLUESTEM INDIANGRASS	10 LBS/AC 8 LBS/AC PLS 3 LBS/AC PLS 3 LBS/AC PLS			■	■	■	■	■	■				

PS PERMANENT SEEDING - COASTAL

DETAIL 02370-010

Limits of Disturbance:	— NPDES —

Erosion Prevention

Land Grading:	LG OR
Surface Roughening:	
Topsoiling:	
Temporary Seeding:	TS
Mulching:	M
ECB or TRM:	
FGM:	FGM
BFM:	BFM
Permanent Seeding:	PS
Sodding:	SO
Riprap:	
Outlet Protection:	RIPRAP ECB or TRM
Dust Control:	DC
Polyacrylamide (PAM):	PAM

Sediment Control

Sediment Basin:	
Temporary Sediment Trap:	
Rock Sediment Dike:	
Rock Check Dam:	OR ▶ ▶
Sediment Tube:	
Silt Fence:	■—■—■
Reinforced Silt Fence:	■×■×■
Type A-Fabric Inlet Protection:	A
Type A-Sediment Tube Inlet Protection:	Ⓐ
Type B - Wire Mesh and Stone Drop Inlet Protection:	B
Type C - Block and Gravel Inlet Protection:	C
Type D - Rigid Inlet Filters:	D
Type E - Surface Course Curb Inlet Filter:	E
Type F - Inlet Tube:	F
Type FC - Filter Bag Curb Inlet Protection:	FC
Type FB - Filter Bag Grate Inlet Protection:	FG
Concrete Washout	CWS

Runoff Conveyance Measures

Vegetated Channels:	
Riprap-Lined Channels:	
ECB OR TRM-Lined Channels:	
Paved Channels:	PC ➡ PC ➡ PC ➡
Pipe Slope Drains:	
Temporary Stream Crossing:	T
Temporary Diversion Ditch or Swale:	⇒ TD ⇒ TD ⇒
Permanent Diversion Ditch:	→ PD → PD →
Diversion Dike or Berm:	⇒ DD ⇒ DB ⇒
Level Spreader:	
Subsurface Drain:	⇉ SSD ⇉ SSD ⇉

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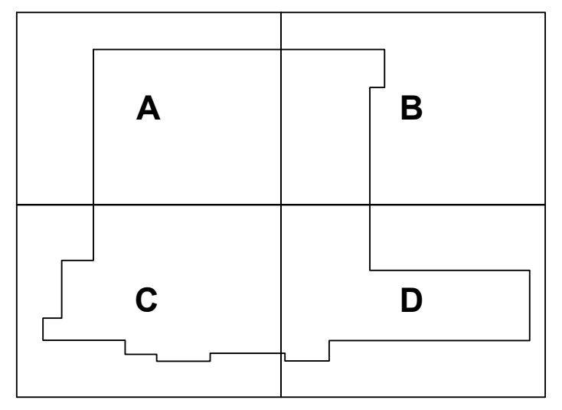
KEYPLAN



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CLIENT
NOVANT HEALTH

PROJECT
BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER
400501008

ABBREVIATION
BLUFFTON HOSPITAL

DRAWN BY
GFONSECA

CHECKED BY
LKINCAID

ORIGINAL ISSUE
SCHEMATIC DESIGN
23 JAN 2026

SHEET NAME
FINAL EROSION
CONTROL PLAN

SHEET NUMBER
C-1002

ATTACHMENT 7

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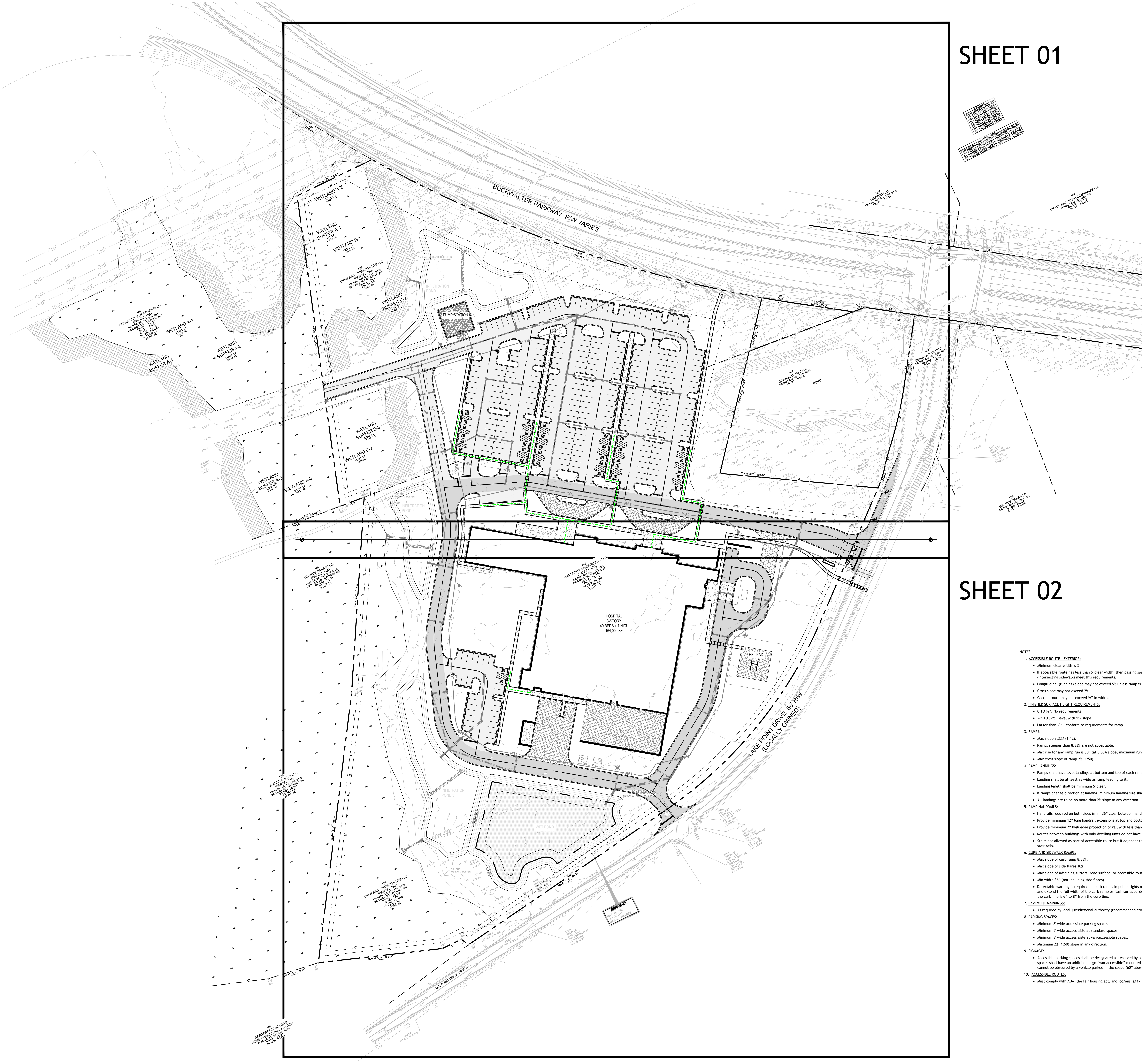
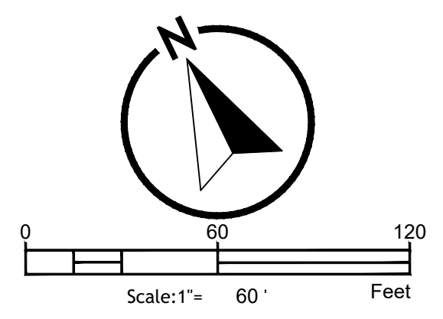

SHEET 01
SHEET 02
BUCKWALTER PARKWAY R/W VARIES
LAKE POINT DRIVE 66' R/W (LOCALLY OWNED)
HOSPITAL
3-STORY
40 BEDS + 7 NICU
164,000 SF
HELIPAD
PUMP STATION
N/F UNIVERSITY INVESTMENTS LLC. (PARCEL 12D)
PIN: R600 029 000 2410 0000
(WETLANDS SEE REFERENCE #9)
PB:153 PG:176
PB:163 PG:3
DB:4019 PG:1098
537,900 S.F.
12.348 AC.
WETLAND A-1
WETLAND BUFFER A-1
WETLAND BUFFER A-2
WETLAND A-2
WETLAND A-3
WETLAND BUFFER A-3
WETLAND E-1
WETLAND BUFFER E-1
WETLAND E-2
WETLAND BUFFER E-2
WETLAND E-3
WETLAND BUFFER E-3
N/F GRANDE OAKS II LLC
POND

🟩 ADA Accessible Route

NOTE:
The accessible route shall comply with the current version of the ADA Standards for Accessible Design.

NOTES:

1. ACCESSIBLE ROUTE - EXTERIOR:
   - Minimum clear width is 3'.
   - If accessible route has less than 5' clear width, then passing spaces at least 5'x5' shall be located every 200' or less (intersecting sidewalks meet this requirement).
   - Longitudinal (running) slope may not exceed 5% unless ramp is installed (ramps may not exceed 8.33%).
   - Cross slope may not exceed 2%.
   - Gaps in route may not exceed ½" in width.
2. FINISHED SURFACE HEIGHT REQUIREMENTS:
   - 0 TO ¼": No requirements
   - ¼" TO ½": Bevel with 1:2 slope
   - Larger than ½": conform to requirements for ramp
3. RAMPS:
   - Max slope 8.33% (1:12).
   - Ramps steeper than 8.33% are not acceptable.
   - Max rise for any ramp run is 30" (at 8.33% slope, maximum run of ramp is 30').
   - Max cross slope of ramp 2% (1:50).
4. RAMP LANDINGS:
   - Ramps shall have level landings at bottom and top of each ramp.
   - Landing shall be at least as wide as ramp leading to it.
   - Landing length shall be minimum 5' clear.
   - If ramps change direction at landing, minimum landing size shall be 5'x5'.
   - All landings are to be no more than 2% slope in any direction.
5. RAMP HANDRAILS:
   - Handrails required on both sides (min. 36" clear between handrails) when ramp rise is greater than 6".
   - Provide minimum 12" long handrail extensions at top and bottom landings.
   - Provide minimum 2" high edge protection or rail with less than 4" clear to ramp if ramp has drop-offs.
   - Routes between buildings with only dwelling units do not have to have handrails.
   - Stairs not allowed as part of accessible route but if adjacent to route or part of tenant space must meet requirements for stair rails.
6. CURB AND SIDEWALK RAMPS:
   - Max slope of curb ramp 8.33%.
   - Max slope of side flares 10%.
   - Max slope of adjoining gutters, road surface, or accessible route 5%.
   - Min width 36" (not including side flares).
   - Detectable warning is required on curb ramps in public rights of way, and shall be 24" minimum in the direction of travel and extend the full width of the curb ramp or flush surface. detectable warnings shall be located so the edge nearest the curb line is 6" to 8" from the curb line.
7. PAVEMENT MARKINGS:
   - As required by local jurisdictional authority (recommended crosswalk marking to designate accessible pedestrian route)
8. PARKING SPACES:
   - Minimum 8' wide accessible parking space.
   - Minimum 5' wide access aisle at standard spaces.
   - Minimum 8' wide access aisle at van-accessible spaces.
   - Maximum 2% (1:50) slope in any direction.
9. SIGNAGE:
   - Accessible parking spaces shall be designated as reserved by a sign showing the symbol of accessibility. van-accessible spaces shall have an additional sign "van-accessible" mounted below the symbol. such signs shall be located so they cannot be obscured by a vehicle parked in the space (60" above grade unless other height required by local jurisdiction).
10. ACCESSIBLE ROUTES:
   - Must comply with ADA, the fair housing act, and icc/ansi a117.1-2017.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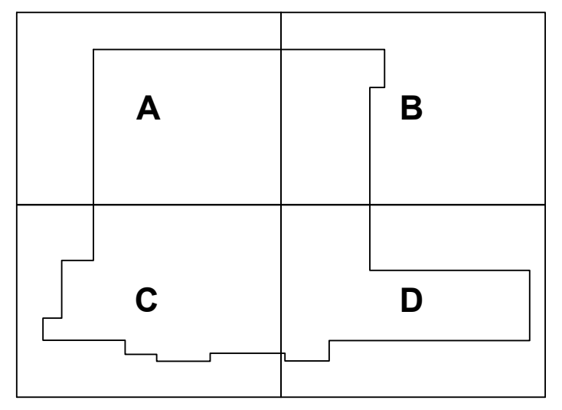

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NOVANT HEALTH

PROJECT

BLUFFTON HOSPITAL
BLUFFTON, SC

PROJECT NUMBER	ABBREVIATION
400501008	BLUFFTON HOSPITAL

DRAWN BY	CHECKED BY
GFONSECA	LKINCAID

ORIGINAL ISSUE

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23 JAN 2026

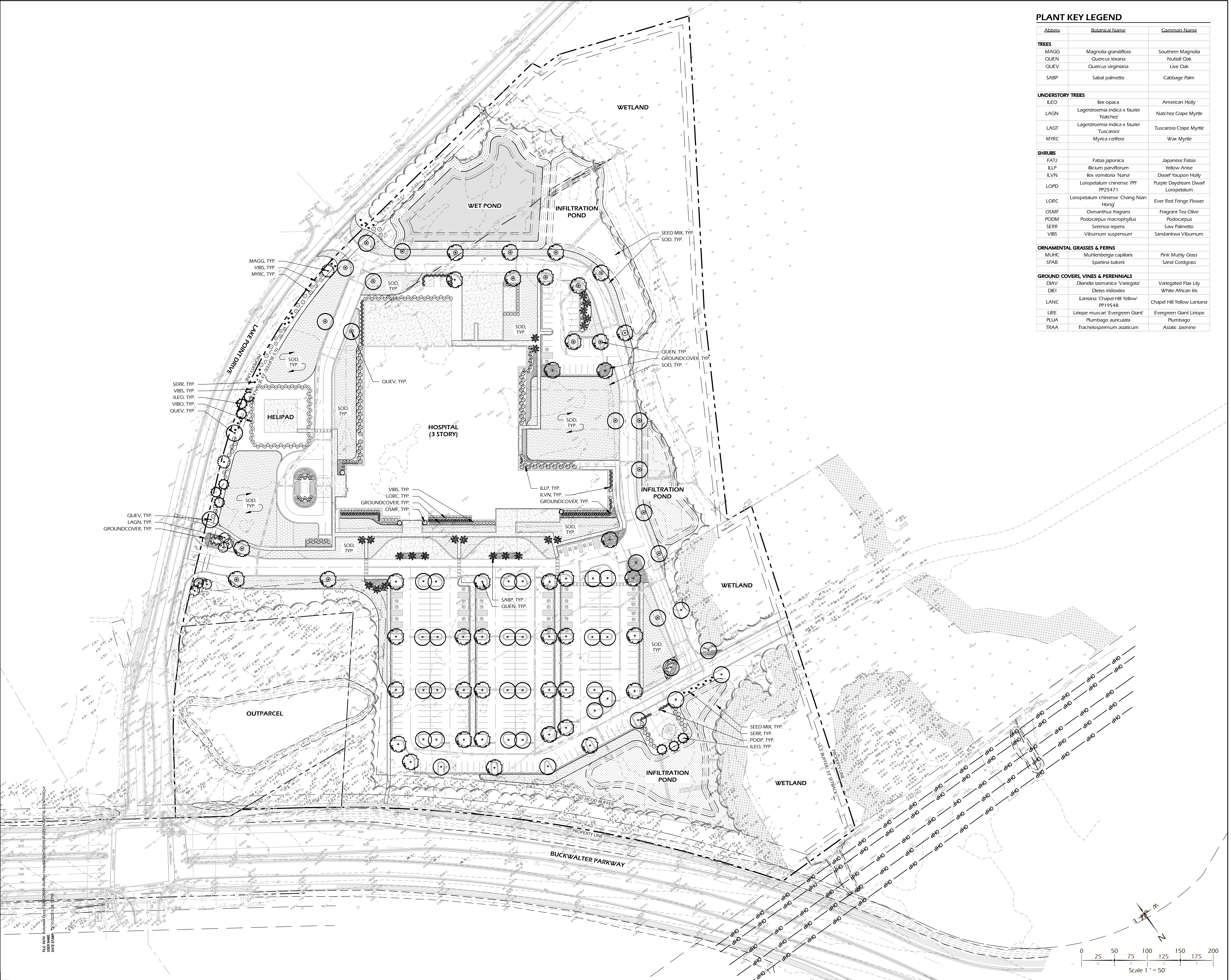
SHEET NAME

ADA ACCESSIBLE
ROUTE PLAN

SHEET NUMBER

C-1101

ATTACHMENT 7


WETLAND
WET POND
INFILTRATION POND
SEED MIX, TYP.
SOD, TYP.
MAGG, TYP.
VIBS, TYP.
MYRC, TYP.
SOD, TYP.
SOD, TYP.
LANE POINT DRIVE
SOD, TYP.
QUEV, TYP.
QUEN, TYP.
GROUNDCOVER, TYP.
SOD, TYP.
SERR, TYP.
VIBS, TYP.
ILEO, TYP.
VIBO, TYP.
QUEV, TYP.
HELIPAD
SOD, TYP.
HOSPITAL
(3 STORY)
SOD, TYP.
SOD, TYP.
VIBS, TYP.
LORC, TYP.
GROUNDCOVER, TYP.
OSMF, TYP.
ILLP, TYP.
ILVN, TYP.
GROUNDCOVER, TYP.
INFILTRATION POND
QUEV, TYP.
LAGN, TYP.
GROUNDCOVER, TYP.
SOD, TYP.
SOD, TYP.
WETLAND
SABP, TYP.
QUEN, TYP.
SOD, TYP.
OUTPARCEL
SEED MIX, TYP.
SERR, TYP.
PODP, TYP.
ILEO, TYP.
INFILTRATION POND
WETLAND
50' HCOD BUFFER
PROPERTY LINE
BUCKWALTER PARKWAY
PROPERTY LINE
16.5' BUFFER
33' SETBACK
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PLANT KEY LEGEND

Abbrev	Botanical Name	Common Name
TREES		
MAGG	Magnolia grandiflora	Southern Magnolia
QUEN	Quercus texana	Nuttall Oak
QUEV	Quercus virginiana	Live Oak
SABP	Sabal palmetto	Cabbage Palm
UNDERSTORY TREES		
ILEO	Ilex opaca	American Holly
LAGN	Lagerstroemia indica x fauriei 'Natchez'	Natchez Crape Myrtle
LAGT	Lagerstroemia indica x fauriei 'Tuscarora'	Tuscarora Crape Myrtle
MYRC	Myrica cerifera	Wax Myrtle
SHRUBS		
FATJ	Fatsia japonica	Japanese Fatsia
ILLP	Illicium parviflorum	Yellow Anise
ILVN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly
LOPD	Loropetalum chinense ‘PPI’ PP25471	Purple Daydream Dwarf Loropetalum
LORC	Loropetalum chinense 'Chang Nian Hong'	Ever Red Fringe Flower
OSMF	Osmanthus fragrans	Fragrant Tea Olive
PODM	Podocarpus macrophyllus	Podocarpus
SERR	Serenoa repens	Saw Palmetto
VIBS	Viburnum suspensum	Sandankwa Viburnum
ORNAMENTAL GRASSES & FERNS		
MUHC	Muhlenbergia capillaris	Pink Muhly Grass
SPAB	Spartina bakerii	Sand Cordgrass
GROUND COVERS, VINES & PERENNIALS		
DIAV	Dianella tasmanica 'Variegata'	Variegated Flax Lily
DIEI	Dietes iridioides	White African Iris
LANC	Lantana 'Chapel Hill Yellow' PP19548	Chapel Hill Yellow Lantana
LIRE	Liriope muscari 'Evergreen Giant'	Evergreen Giant Liriope
PLUA	Plumbago auriculata	Plumbago
TRAA	Trachelospermum asiaticum	Asiatic Jasmine

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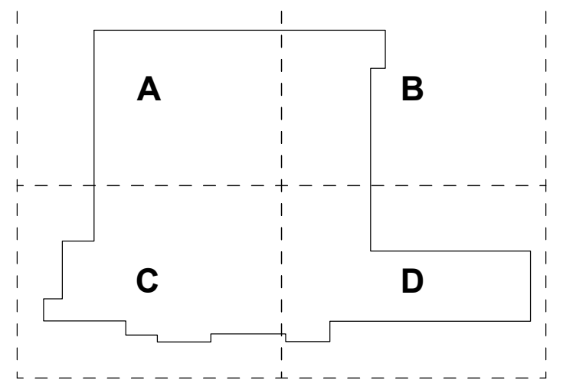

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