for

New Riverside Village Commercial

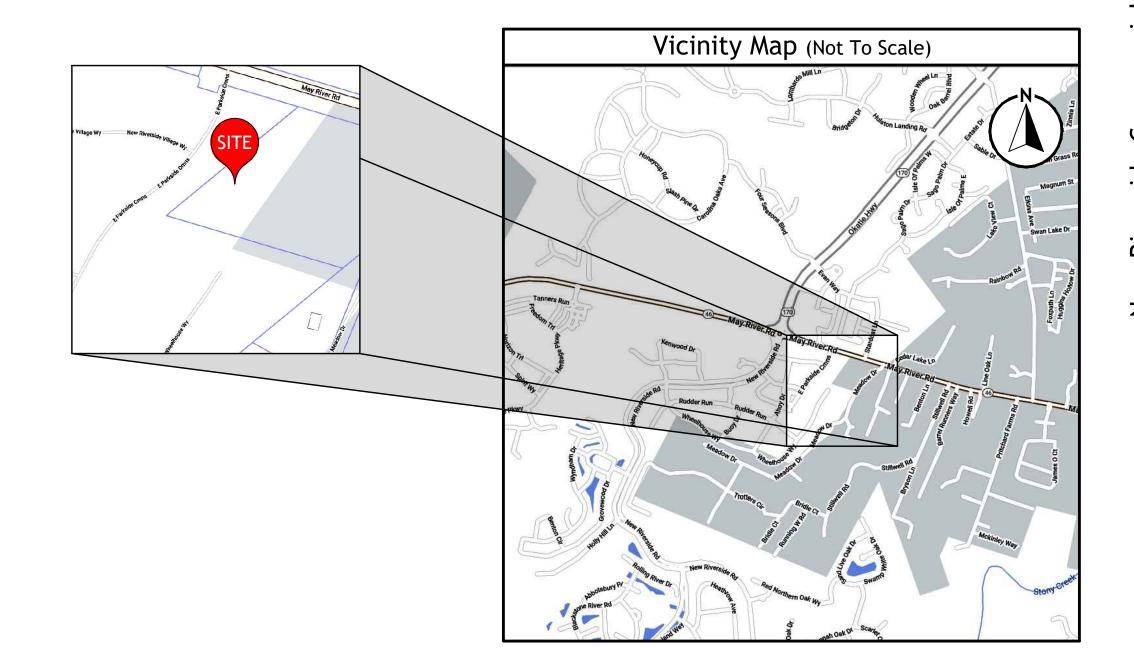
Usage (multi-family)

Town of Bluffton, South Carolina

Tax Map #: R600 036 000 0013 0000

New Riverside Rd & 395 E Parkside Commons

GIS coord: N32° 14′ 23″, W80° 58′ 41″



Schedule of Drawings

Description Sheet No. Cover Sheet **Construction Notes Existing Conditions Plans** Initial Erosion Control Plans and Details Clearing & Demolition Plans and Details Site Layout Plans **Grading Plans and Details** Overall Utility Plan Intermediate & Final Erosion Control Plans and Details Paving Plans, Road Profiles and Details ADA Accessible Route Plan

Release Schedule

Developer:

Steven G. Stowers

steve@a101.design

23A Market, Suite #1, Beaufort, SC 29906

Architecture 101

843.790.4101

Release No.	Description	Date
Α.	Released for Permitting	05-16-23
В.	Released for Permitting	06-28-23
C.	Released for Permitting	06-30-23
D.	Released for Permitting	07-24-23

Architecture 101 Riverside Village (

07/24/23 Designed by: Checked by:

> Not to Scale C001

Design Team

Geotechnical Engineer: 319.721.3517

Landscape Architect: Milling Land Design 843.290.2623

Architect: Architecture 101 843.790.4101

Land Surveyor:

Atlas Surveying, Inc. 843.645.9277

- Boundary information provided by An As-Built tree & topographic survey of parcels 3 & 5 New Riverside Village, dated 04-03-23, by Atlas Surveying, Inc. Topographic data provided by Atlas Surveying, Inc., dated 04-03-23. 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.
- destroyed as a result of contractor's operations, at no cost to the owner, by a licensed surveyor in the state of south carolina. Off-street parking for the contractor's employees and authorized visitors to the site must be provided and maintained throughout construction. 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

Protect bench marks and property monuments from damage during construction operations. replace any bench marks or monuments damaged or

- 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:

- All water and sewer line construction shall conform to applicable state and beaufort jasper water sewer authority (BJWSA) requirements, standards and
- . BJWSA will be responsible for inspection and approval of all water and sewer system construction and for acceptance for operation and maintenance. 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.
- Notify the project engineer, if conflicts with existing structures require that proposed utilities be relocated.
- 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
- Installation of water and sewer lines and appurtenances shall be in accordance with the BJWSA standard construction details and specifications. 3. Contractor shall install mechanical restraints on all bends, plugs and tees, 2" or larger, on waterlines and sanitary sewer force mains. 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
- 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:

- Contractor shall review and comply with all conditions and special provisions contained in the SCDOT encroachment permit(s) issued for this project. 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. All signage, pavement markings, and markers shall conform to current MUTCD guidelines and current SCDOT standard specifications and drawings.
- All paving and drainage construction shall conform to current SCDOT standard specifications and drawings. . All pavement markings in SCDOT right-of-way shall be thermoplastic and conform to current MUTCD guidelines and current SCDOT standard
- 8. Removal of pavement markings shall conform to current SCDOT standard specifications for highway construction section 609.4.1.2.

Tree Protection-Bluffton

- 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.
- 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. 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 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 on zone may be modified only upon approval by town of bluffton 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.
- Vehicle parking
- E. Trenching for utilities

Contractor Note:

6162232464 prepared by WSP.

Permit

BJWSA

Fire Marshal

SCDHEC/MS4 Stormwater

SCDHEC Water

SCDHEC Wastewater

Municipality Development

Contractor to obtain and become familiar with geotechnical report

All work must conform to project technical specifications for

specifications if not provided with the drawings

New Riverside Commercial prepared by Ward Edwards Engineering.

The contractor is responsible for obtaining a copy of the technical

Permits

Permit #

- Where utility lines must pass thru the tree protection zone, they shall be installed by horizontal boring beneath the roots of the tree. 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.

Issued

Expires

- 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. 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
- 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.

SCDHEC/OCRM Sediment and Erosion Control Standard Notes (Revised Dec-2012):

- 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. 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. 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 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. 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.
- 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 seg. 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. . 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.
- . 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:

- 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
- Notify the engineer if conflicts with existing or proposed structures require proposed utilities be relocated.

Site Clearing and Demolition:

- . 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. 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: 11-01-23 Estimated Completion Date: 11-01-24 Items must occur in the order listed; items cannot occur concurrently unless specifically noted.

Phase 1: (Initial) Receive npdes coverage from dhec.

- 2. Hold pre-construction meeting.
- Notify dhec eqc regional office or ocrm office 48 hours prior to beginning land-disturbing activities.
- . Installation of construction entrance. 5. Clearing & grubbing only as necessary for installation of perimeter controls.
- 6. Installation of perimeter controls (e.g. silt fence).
- Install tree protection. 8. Install inlet protection.
- 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
- 23. Perform as-built surveys of all detention structures and submit to dhec or ms4 for acceptance. 24. Submit notice of termination (not) to dhec as appropriate.
- NOTE: Perform weekly site inspections during land disturbing activities and make recommendations for additional BMPs or maintenance of existing
- NOTE: All pumped dewatering shall be performed using an appropriately sized pumped water filter bag.

Project information

deed book 4178 page 0075

deed book 4178 page 10

Source of Title: Beaufort county register of deeds,

existing: undeveloped proposed: Commercial

Front: 00 Feet Rear: 50 Feet Side: 0 Feet Street: 75 Feet Highway

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 %)

875 sq. ft. x 4/1000 sq.ft. = 3.5 spaces Total Lot-1 Parking Required: 24 spaces Total Lot-1 Parking Provided: 24 spaces Accessible parking required: 2 spaces

Retail & Restaurant = 4 spaces/1,000 sq. ft.

Total Parking Required: 72 spaces Total Parking Provided: 72 spaces

SCDHEC-OCRM Certification:

scr100000.

Othley 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
Hargray Communications	843-815-1675	PO Box 3380, Bluffton, SC 29910
Century Link	843-525-0044	2127 Boundary ST #16, Beaufort, SC 29902

4 buildings 16,000 sq ft (total)

xx seats, etc.

Required Setbacks:

Max impervious allowed: XX %

- Restaurant = 4 spaces/1,000 sq. ft. Parking required (interior w/ mechanical rooms) 5,125 sq. ft. x 4/1000 sq.ft. = 20.5 spaces
- Accessible parking provided: 2 spaces

Parking required:

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
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
•		

"I have placed my signature and seal on the design documents submitted signifying that i accept responsibility for the design of the system.

laws of sc, 1976 as amended, pursuant to regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of

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

Circle 46 LLC.

Surface Coverage:

Parking Summary:

- Parking required (outdoor dining & cooler):

12,000 sq. ft. x 4/1000 sq. ft. = 48 spaces Total Lot-2 Parking Required: 48 spaces Total Lot-2 Parking Provided: 48 spaces Accessible parking required: 2 spaces Accessible parking provided: 2 spaces

Hillity Contacts

othery contacts.		
Palmetto Electric	843-208-5512	1 Cooperative Way, Hardeeville, SC 29927
Dominion Energy	800-251-7234	PO Box 100255 Columbia, SC 29202
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Property Owner:

PO Box 6133

Flood Zone:

Proposed Sidewalk/Concrete Hilton Head Island SC 29938 Reinforced Grass Fire Lane Proposed Aggregate/Stones

Paving Hatch Legend

Proposed Concrete Paving

Proposed Asphalt (light duty)

Proposed Asphalt (heavy duty)

Mill & Overlay Asphalt

Drop Inlet

Curb Inlet (with Grate)

Type 16 Curb Inlet

Trench Drain

Weir Inlet

Yard Inlet

Cleanout

Junction Box

Storm Drain

Underdrain

Roof Drain Collector

Flared End Section

Headwall with Wings

Outlet Control Structure

Ditch Centerline

Service Lateral

Milling

Proposed Pervious Concrete Paving

Property Zoning: Planned Unit Development

Site Area: Total: 2.766 acres Disturbed: 2.2 acres Building Height:

Proposed: xx feet Required Buffers: Rear: 50 Feet Side: 10 Feet

Maximum: xx fee

Street: 60 Feet Highway 0 Feet Internal

Proposed Concrete Pavers Clearing / Demolition Legend Riprap: Demolition Outlet Protection: RIPRAP Tree to be Removed **Dust Control:** Tree Protection

Runoff Conveyance Measures

<u>e Legend</u>	Vegetated Channels:	2005 30 2005 3005 3
Proposed		
DI: A1	Riprap-Lined Channels:	22 <u>22</u> 22
CI: A1	ECB OR TRM-Lined Channels:	
• CI: A1	Leb on Trun Emed enamicis.	
VI: A1	Paved Channels:	PC PC PC
TD: A1	Pipe Slope Drains:	
○ WI: A1	Tipe stope brains.	
→ YI: A1	Temporary Stream Crossing:	
① JB: A1	Temporary Diversion	
● CO	Ditch or Swale:	⇒TD ⇒TD ⇒
I	Permanent Diversion Ditch:	
	Diversion Dike or Berm:	⇒ DD ⇒ DB ⇒
	Level Spreader:	
7	Subsurface Drain:	\Rightarrow SSD \Rightarrow SSD \Rightarrow
·	Sediment Co	<u>ontrol</u>
$-\!\to\!\!-\!\to\!\!-$	Sediment Basin:	

Direction of Flow		
		Temporary Sediment Trap
Sanitary Sewe	er Legend	
	Proposed	Rock Sediment Dike:
Sanitary Sewer Manhole	⑤ MH: A1	Rock Check Dam:
Sanitary Sewer Cleanout	● CO	1
Sanitary Sewer Wye	7.1	Sediment Tube:
Check Valve in Manhole	0	Silt Fence:
Plug Valve		
Air Release Valve	ARV	Reinforced Silt Fence:
Sewer Line	——s—	Type A-Fabric
Force Main	—— F——	Inlet Protection:
Reuse Main	—— R——	Type A-Sediment Tube
Service Lateral		Inlet Protection:

Storm Sewer/Drainage Legend

	Proposed	Type C - Block and Gravel Inlet Protection:	
Water Meter	⊡	T D	
Water Valve	•	Type D - Rigid Inlet Filters:	
Reducer	>	Type E - Surface Course	ΠE
Post Indicator Valve	\otimes	Curb Inlet Filter:	E
Fire Hydrant	X	Type F - Inlet Tube:	F
Blowoff Hydrant	~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	L L
Yard Hydrant	•	Type FC - Filter Bag Curb Inlet Protection:	F
Fire Depart. Connection (FDC)			_
Cap	П	Type FB - Filter Bag Grate Inlet Protection:	F
Plug	_		
Backflow Preventor	1	Concrete Washout	CW
Butterfly Valve			
Fittings		ADA Acces	sible route
Water Line	w	ADA Acces	sible foule

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	$-\!\!\rightarrow\!\!-\!\!\!\rightarrow\!\!-\!\!\!\rightarrow$
Direction of Flow	

Limits of Disturbance: ----- NPDES -**Erosion Prevention** Land Grading: Surface Roughening: opsoiling: (rs) emporary Seeding: Mulching: ECB or TRM: FGM PS ermanent Seeding: SO

Polyacrylamide (PAM):

ranon conveyan	
Vegetated Channels:	
Riprap-Lined Channels:	2523 <u>2523</u> 2523
ECB OR TRM-Lined Channels:	
Paved Channels:	PC) PC) PC
Pipe Slope Drains:	0
Temporary Stream Crossing:) (
Temporary Diversion Ditch or Swale:	⇒π⇒π⇒
Permanent Diversion Ditch:	PDPD
Diversion Dike or Berm:	⇒DD ⇒DB ⇒
Level Spreader:	=;;
Subsurface Drain:	⇒ SSD ⇒ SSD ⇒
Sediment C	ontrol

Sediment Basin:	
Temporary Sediment Trap:	
Rock Sediment Dike:	
Rock Check Dam:	[] OR ▶
Sediment Tube:	
Silt Fence:	
Reinforced Silt Fence:	B×B×B
Type A-Fabric Inlet Protection:	A
Type A-Sediment Tube Inlet Protection:	(a)
Type B - Wire Mesh and	

al			
Water System Le	gend	Type B - Wire Mesh and Stone Drop Inlet Protection:	B
	Proposed	Type C - Block and Gravel Inlet Protection:	© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	€	Type D - Rigid Inlet Filters:	D
· Valve	⊗	Type E - Surface Course Curb Inlet Filter:	E
ant	**************************************	Type F - Inlet Tube:	F
Connection (EDC)	***	Type FC - Filter Bag Curb Inlet Protection:	FC
Connection (FDC)	~ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Type FB - Filter Bag Grate Inlet Protection:	FG
ventor	<u>-</u>	Concrete Washout	cws
/e			

	Proposed	1
of Pavement Elevation	⊗ TP: 22.50	
of Walk Elevation	⊗ TW: 22.50	
of Curb Elevation	⊗ TC: 22.50	
h Grade	⊗ FG: 22.5	
Point	⊗ HP	
Point	⊗ LP	
our		
Centerline	$-\!\!\rightarrow\!\!-\!\!\!\rightarrow\!\!-$	

The accessible route shall comply with the current version of the ada standards for accessible design.

> Surveyed by: Surveyor's PLS: 07/24/23

Horiz. Datum:

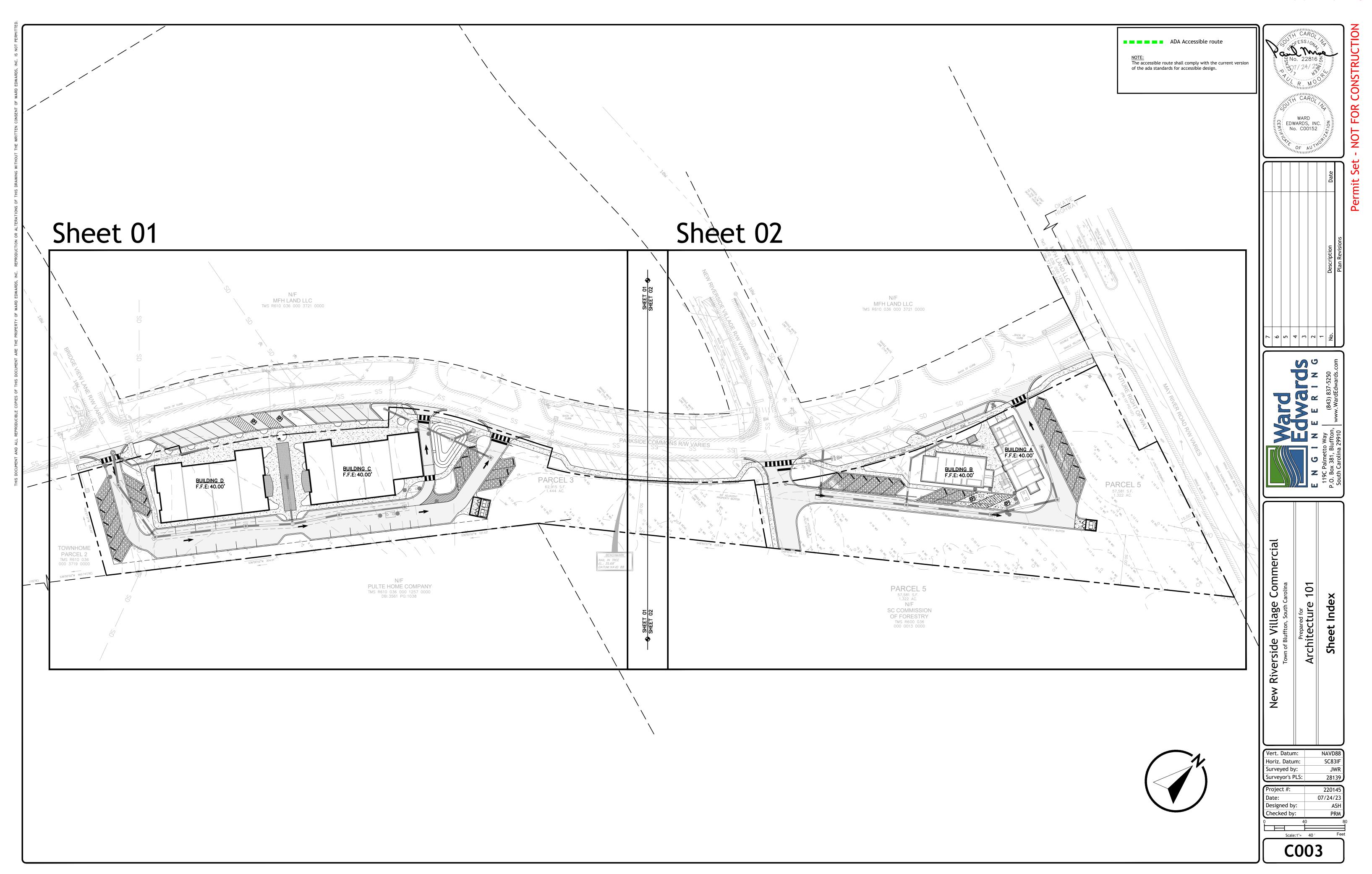
C002

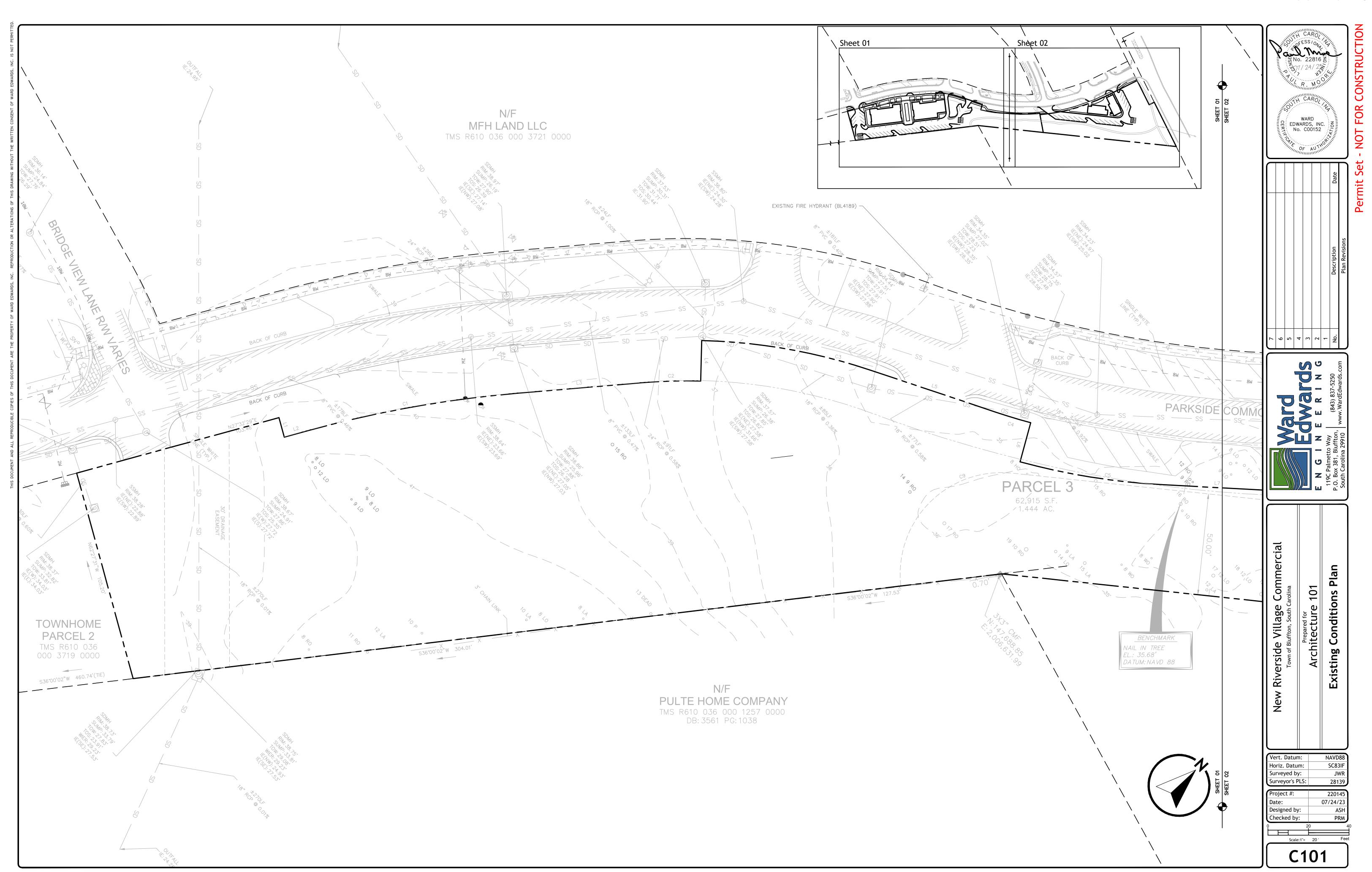
FDWARDS, INC

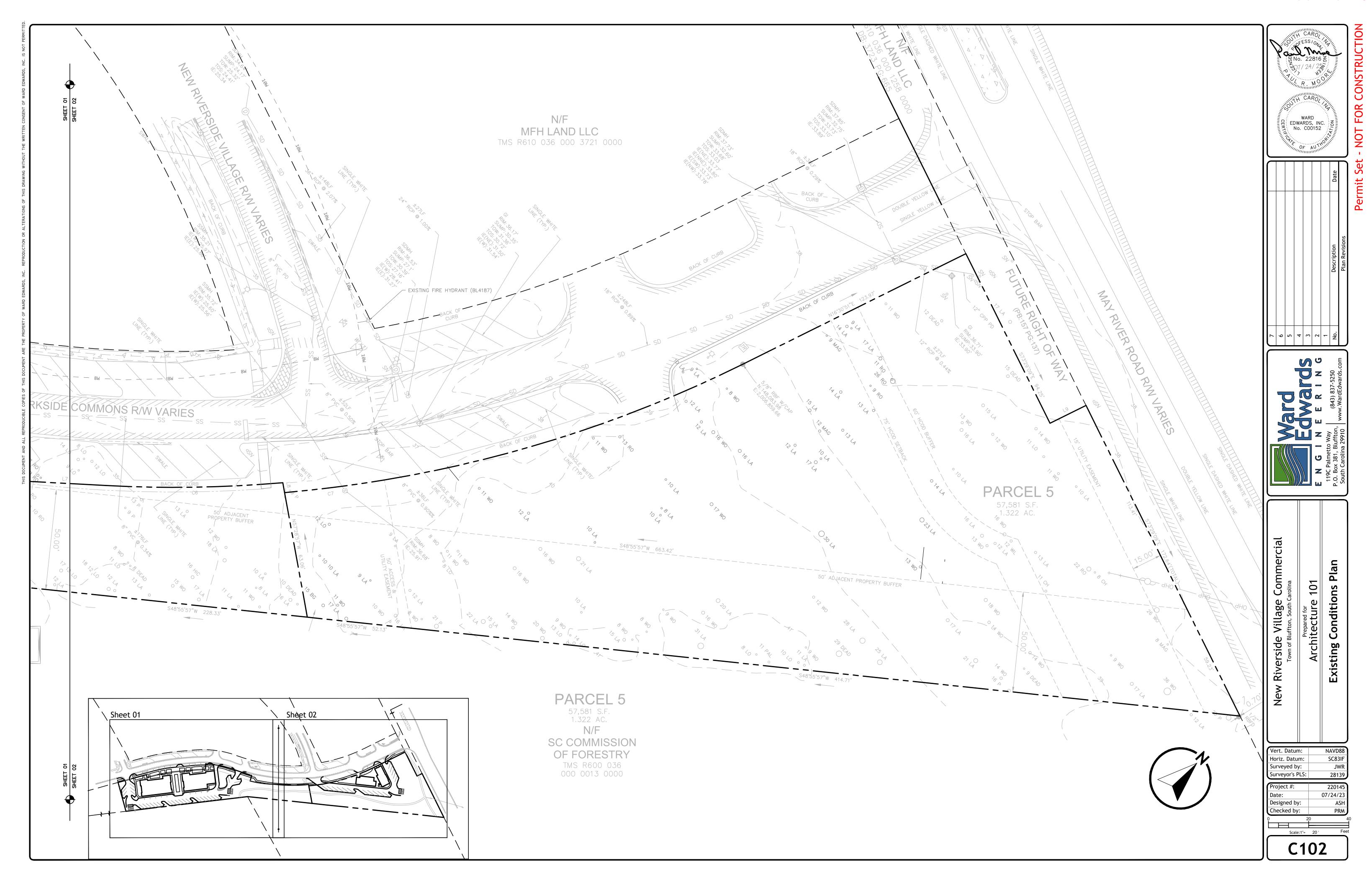
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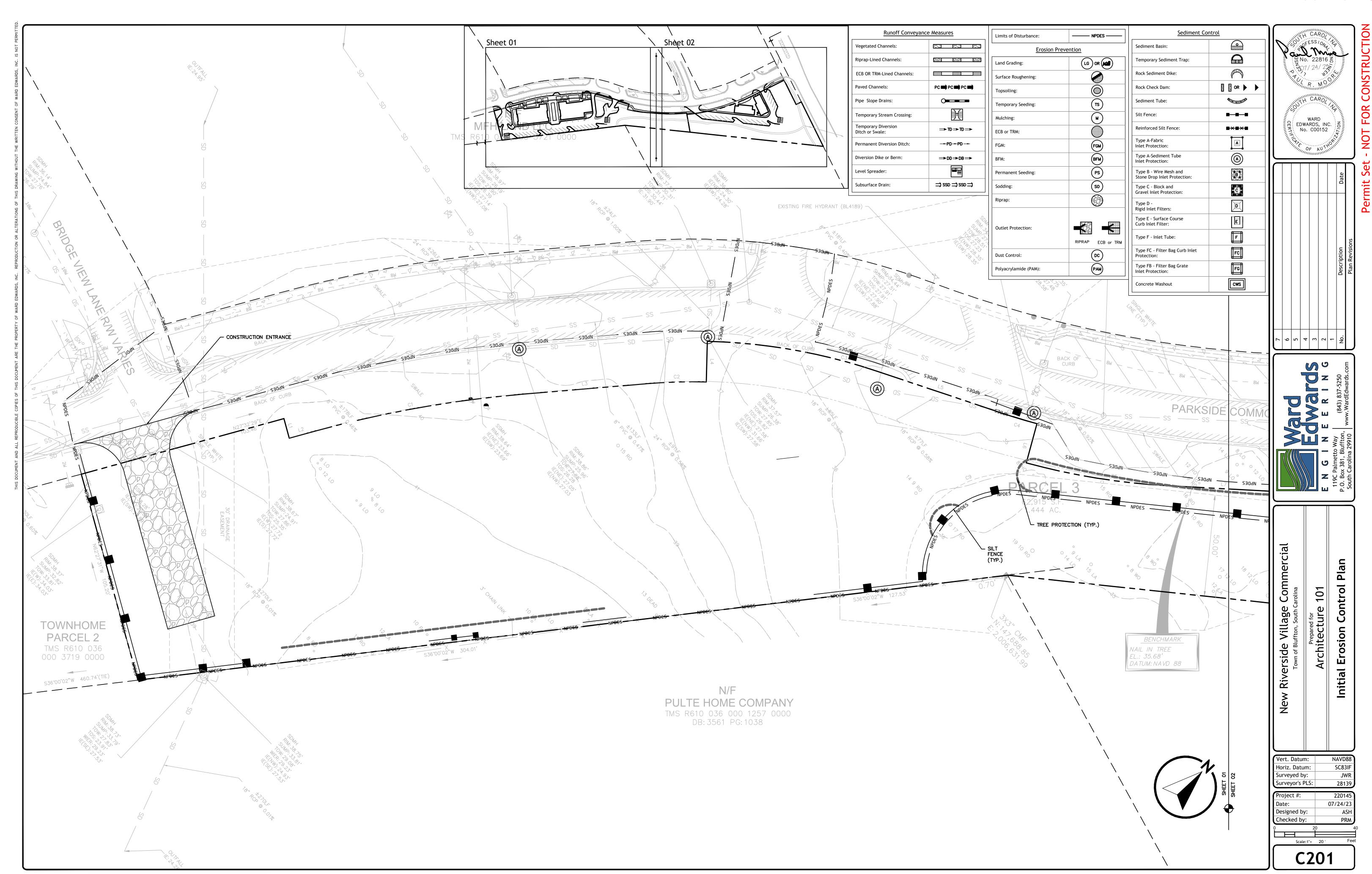
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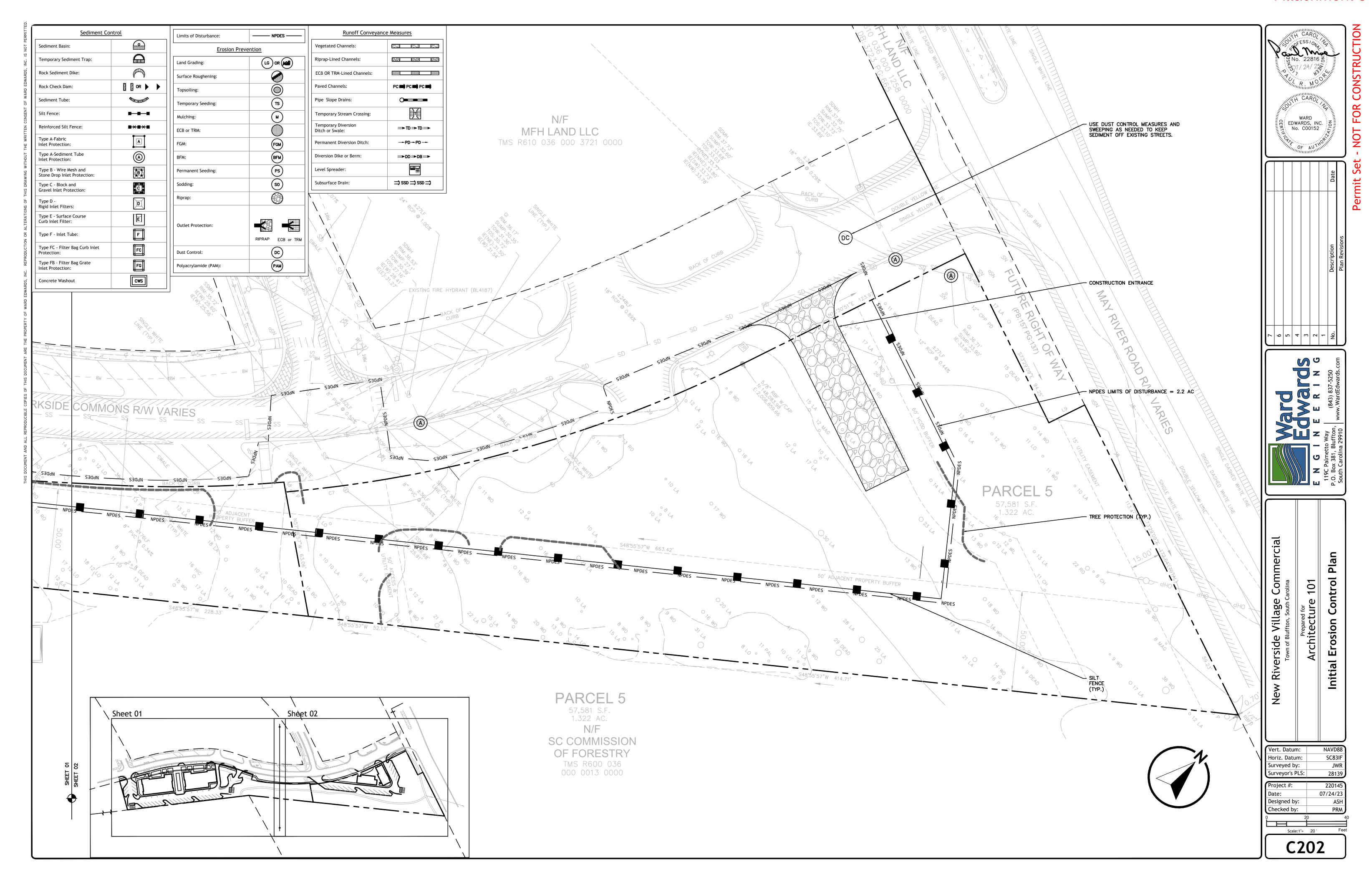
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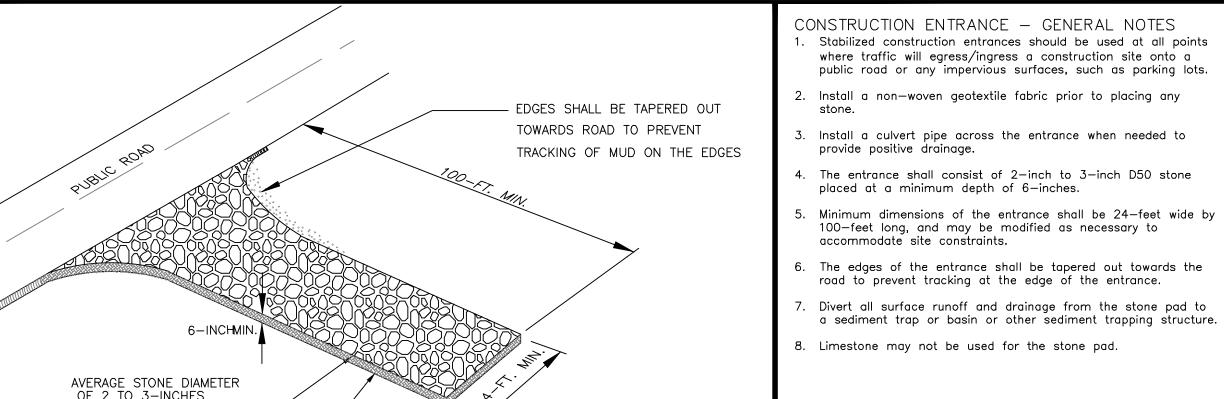
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NAVD8 Vert. Datum: SC83IF Horiz. Datum: Surveyed by:

Surveyor's PLS: 28139 220145 07/24/23 Designed by:

Checked by: Not to Scale

C203



SIZE **SPECIFICATION** -1.33 LBS/LF STEEL POST ROCK PAD THICKNESS 6 INCHES TABLE - RADIUS OF TREE PROTECTION ZONE (TPZ) ROCK PAD WIDTH 24 FEET RADIUS OF CIRCULAR TPZ 100 FEET ROCK PAD LENGTH FOOT PER INCH OF TRUNK DBH BEAUFORT COUNTY BEAUFORT CO. DEV. ROCK PAD STONE SIZE

FILTER FABRIC

BACKFILL TRENCH WITH

minimum overlap:

8-inches of the fabric.

COMPACTED EARTH

CODE 5.11.100 .5 FEET PER INCH OF TRUNK DBH OR TOWN OF BLUFFTON 10 FEET WHICHEVER IS GREATER FENCING AT DRIP LINE FOR ALL TOWN OF HILTON HEAD LMO 16-6-104, J-3A TREES TO BE RETAINED CITY OF BEAUFORT 0.5 FOOT PER INCH OF TRUNK DBH

FENCING AT DRIP LINE FOR ALL TREES JASPER COUNTY ZONING ORD. ART. 13.5 TO BE RETAINED TOWN OF PORT ROYAL 1.5 FEET PER INCH OF TRUNK DBH OR PORT ROYAL CODE 5.7.70 5 FEET WHICHEVER IS GREATER CITY OF HARDEEVILLE FENCING AT DRIP LINE FOR ALL TREES MZ&DO 4.8, F-3 TO BE RETAINED

DBH = TRUNK DIAMETER AT BREAST HEIGHT

TREE PROTECTION FENCE

TREE PROTECTION ZONE DO NOT ENTER

JURISDICTION

UDO 5.3.3

BEAUFORT CODE 5.3.3

6'-0" O.C.

MINIMUM

DETAIL #02915-008

FENCE MATERIAL:

RESISTANT HIGH

POLYETHYLENE

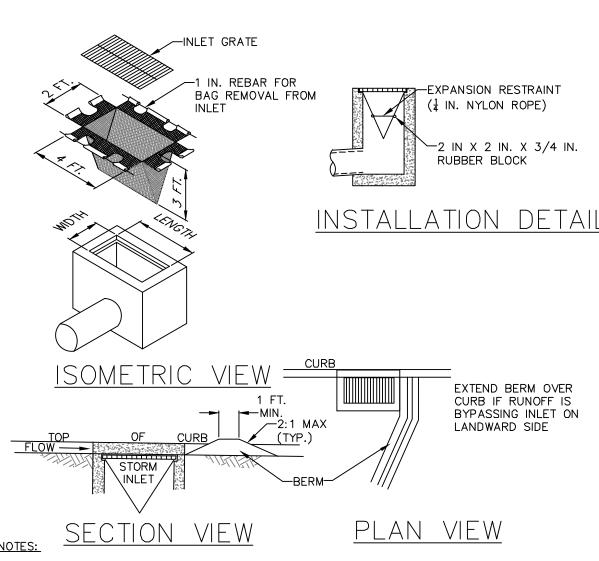
FABRIC

TENSILE STRENGTH

LAMINAR BARRICADE

4'-0" MINIMUM

ORANGE, UV



MAXIMUM DRAINAGE AREA = 1/2 ACRE.

ATTACH SIGN

. ALL TREES DESIGNATED TO BE SAVED SHALL

2. INSTALL TREE PROTECTION FENCE TO RADIUS

INDICATED IN TABLE UNLESS OTHERWISE

WARNING SIGNS TO BE MADE OF DURABLE

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

THE SIZE OF EACH WARNING SIGN MUST BE

6. ATTACH SIGNS SECURELY TO FENCE POSTS

WITHIN THE BOUNDARIES OF THE TREE

TREE PROTECTION FENCING SHALL BE

THE PROJECT. FENCING MUST REMAIN

A MINIMUM OF 2' x 2' AND BE VISIBLE FROM

THERE SHALL BE NO STORAGE OF MATERIAL

MAINTAINED THROUGHOUT THE DURATION OF

BE PROTECTED BY FENCING.

INDICATED ON PLANS.

WATERPROOF MATERIAL

ONE SIGN PER SIDE.

PROTECTION FENCING.

AND FABRIC.

BOTH SIDES OF THE FENCE.

UPRIGHT AND SLACK FREE.

TO POST —

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

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

OF 2 TO 3-INCHES WITH A 6-INCH MINIMUM DEPTH-PLAN SYMBOL UNDERLYING NON-WOVEN GEOTEXTILE FABRIC

PLAN SYMBOL

-SF -SF -

HEAVY DUTY PLASTIC TIE

FOR STEEL POSTS

(RESTRICT TO TOP

8-INCHES OF FABRIC)

D = 2-3 INCHES

SILT FENCE INSTALLATION

1.25 LB./LINEAR FT. STEEL POSTS

USE EITHER FLAT-BOTTOM

Maximum sheet or overland flow path length to the silt fence shall be 100-feet

Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.

l. Silt fence joints, when necessary, shall be completed by one of the following options:

SILT FENCE — GENERAL NOTES . Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not

- Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot

Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top

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.

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

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.

- Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is

OR V-BOTTOM TRENCH

South Carolina Department of Health and Environmental Control CONSTRUCTION ENTRANCE andard drawing no. SC-06 PAGE 1 of 2 NOT TO SCALE

FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

HEAVY DUTY PLASTIC TIE

JHEAVY DUTY PLASTIC TIES

18-IN. TO 24-IN.

_BURY FILTER FABRIC

AT LEAST 12-INCHES

South Carolina Department of

Health and Environmental Contro

SILT FENCE

standard drawing no. SC-03 Page 1 of

NOT TO SCALE

18-IN. TO 24-IN.

FILTER FABRIC

COMPACTED EARTH (

RUNOFF

FILTER FABRIC

RUNOFF

COMPACTED

the following physical characteristics.

Composed of a high strength steel with a minimum yield strength of - 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%) Posts shall be equipped with projections to aid in fastening of filter fabric.

LT FENCE — POST REQUIREMENTS
Silt Fence posts must be 48-inch long steel posts that meet, at a minimum,

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

Install posts to a minimum of 24-inches. A minimum height of 1- to 2inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.

Post spacing shall be at a maximum of 6—feet on center.

SILT FENCE - FABRIC REQUIREMENTS

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,

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.

12—inches of the fabric should be placed within excavated trench and toed in

Filter Fabric shall be purchased in continuous rolls and cut to the length of

the barrier to avoid joints.

- Have a minimum width of 36-inches.

Filter Fabric shall be installed at a minimum of 24—inches above the ground.

GENERAL NOTES FEBRUARY 2014

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.

Accumulated sediment should be continually monitored and removed when

across disturbed area. Stabilize the removed sediment after it is relocated. 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,

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

APPLICATION WATER **ADHESIVE** DILUTION (GAL./ACRE) TYPE 1,200 **SPRAY EMULSION** 12.5:1* 235 SPRAY FINE 4:1* 300 SPRAY

RESIN-IN-WATER **EMULSION** *USE MANUFACTURER'S RECOMMENDATIONS WHEN AVAILABLE.

• PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.

 MULCH DISTURBED AREAS AMD TACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL OR TERRATACK ACCORDING TO

VEGETATION.

APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES

 APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS (NOT MUCK SOILS) AS DESCRIBED IN TABLE 1.

DUST CONTROL ON DISTURBED AREAS

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.

1/2-inch or more of precipitation.

6. Immediately remove mud and sediment tracked or washed onto adiacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

conducted once every calendar week and, as recommended,

3. During regular inspections, check for mud and sediment buildup

4. Reshape the stone pad as necessary for drainage and runoff

and pad integrity. Inspection frequencies may need to be more

within 24-hours after each rainfall even that produces

inspections, routine maintenance, and regular sediment removal.

1. The key to functional construction entrances is weekly

2. Regular inspections of construction entrances shall be

frequent during long periods of wet weather.

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 post-construction.

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 2 of

SILT FENCE - INSPECTION & MAINTENANCE 1. The key to functional silt fence is weekly inspections, routine maintenance, and

3. Attention to sediment accumulations along the silt fence is extremely important.

Remove accumulated sediment when it reaches 1/3 the height of the silt

5. Removed sediment shall be placed in stockpile storage areas or spread thinly

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

> South Carolina Department of Health and Environmental Control SILT FENCE

tandard drawing no. SC-03 PAGE 2 of GENERAL NOTES FEBRUARY 2014 DATE

EMULSION

MAINTENANCE: SUPPLEMENT SURFACE COVERING AS NEEDED.

INSTALLATION: APPLY ACCORDING TO APPROVED PLAN.

ASPHALT

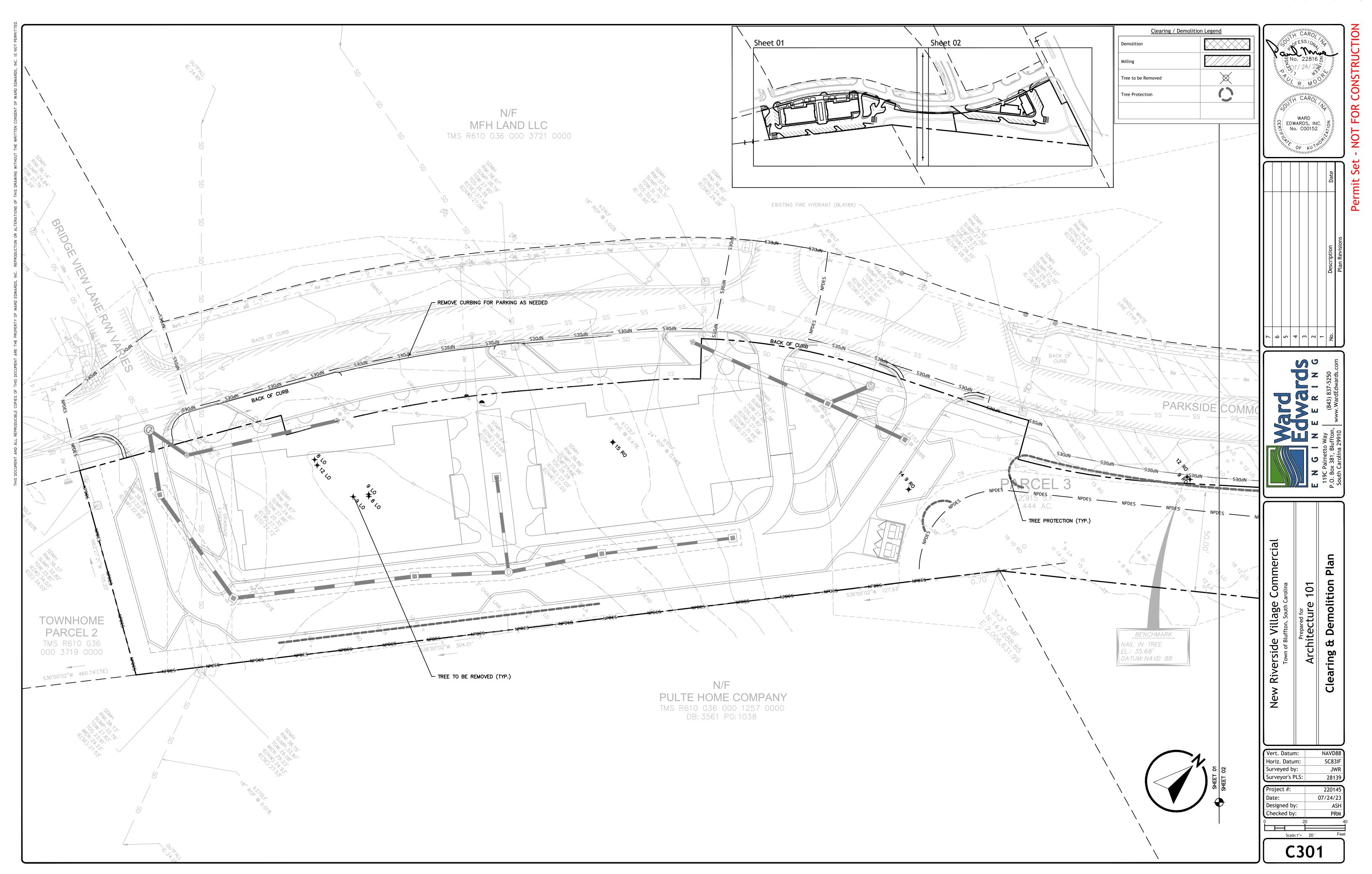
LATEX

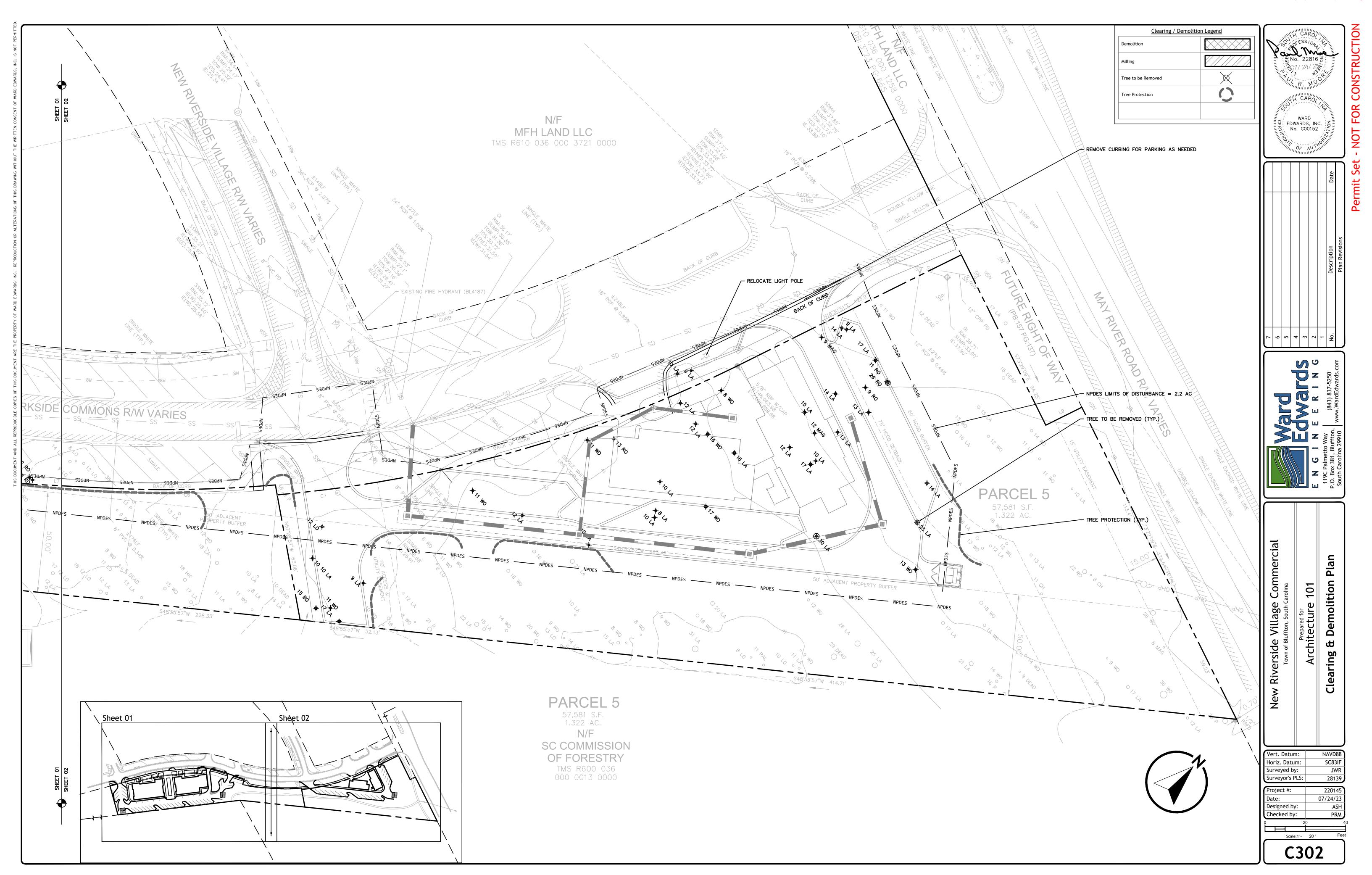
MANUFACTURER'S RECOMMENDATIONS.

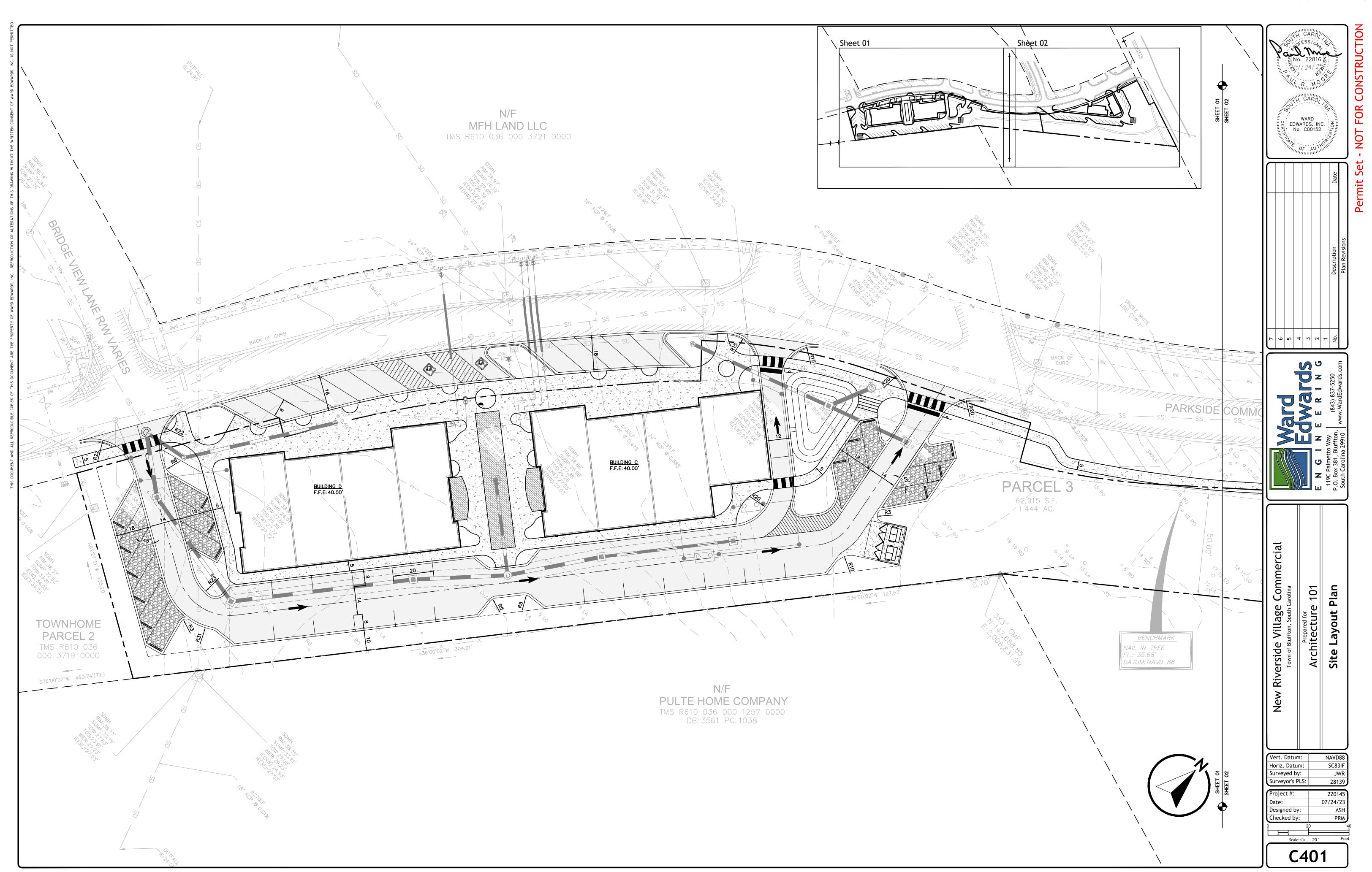
STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT

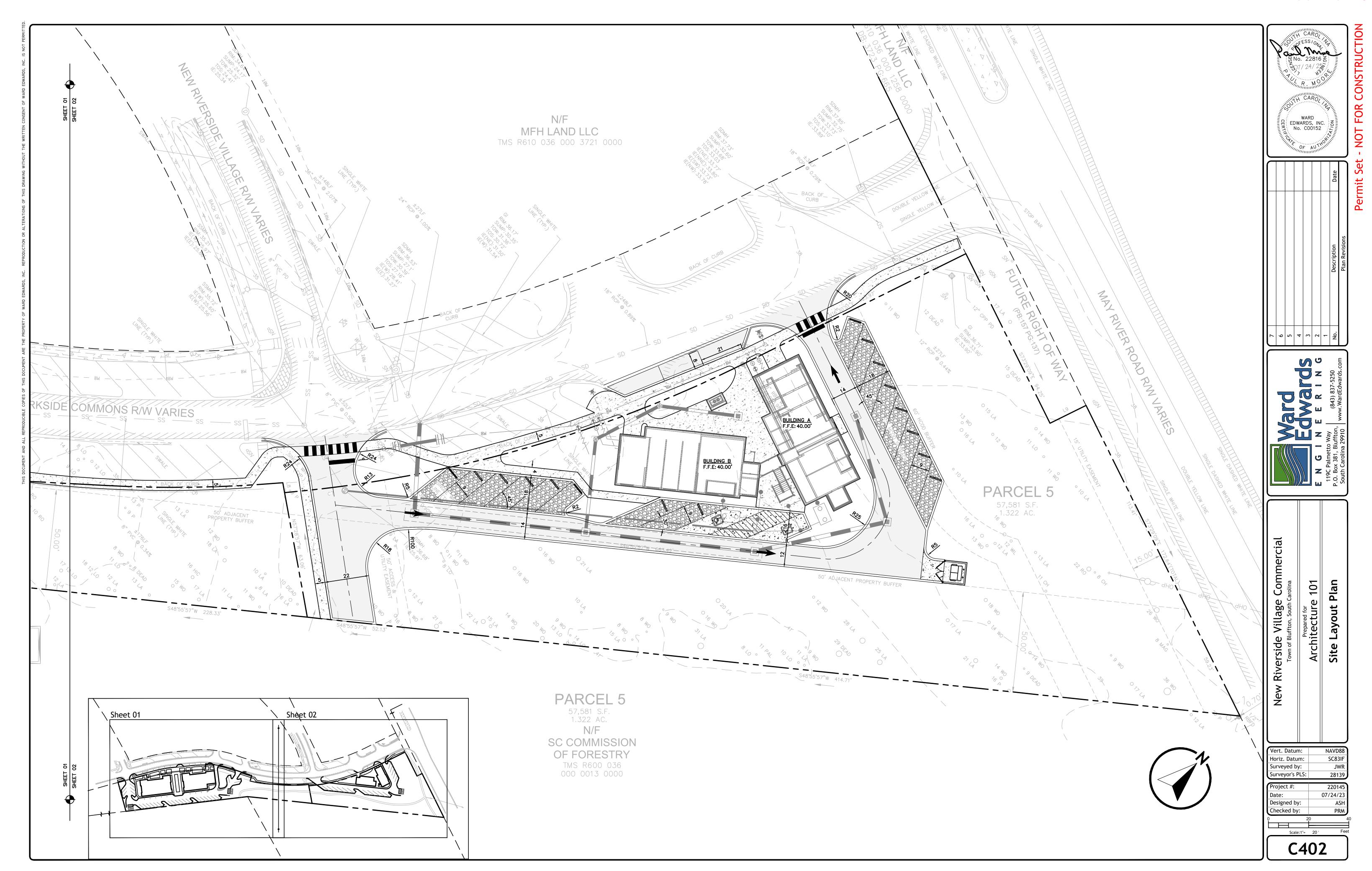
• IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET.

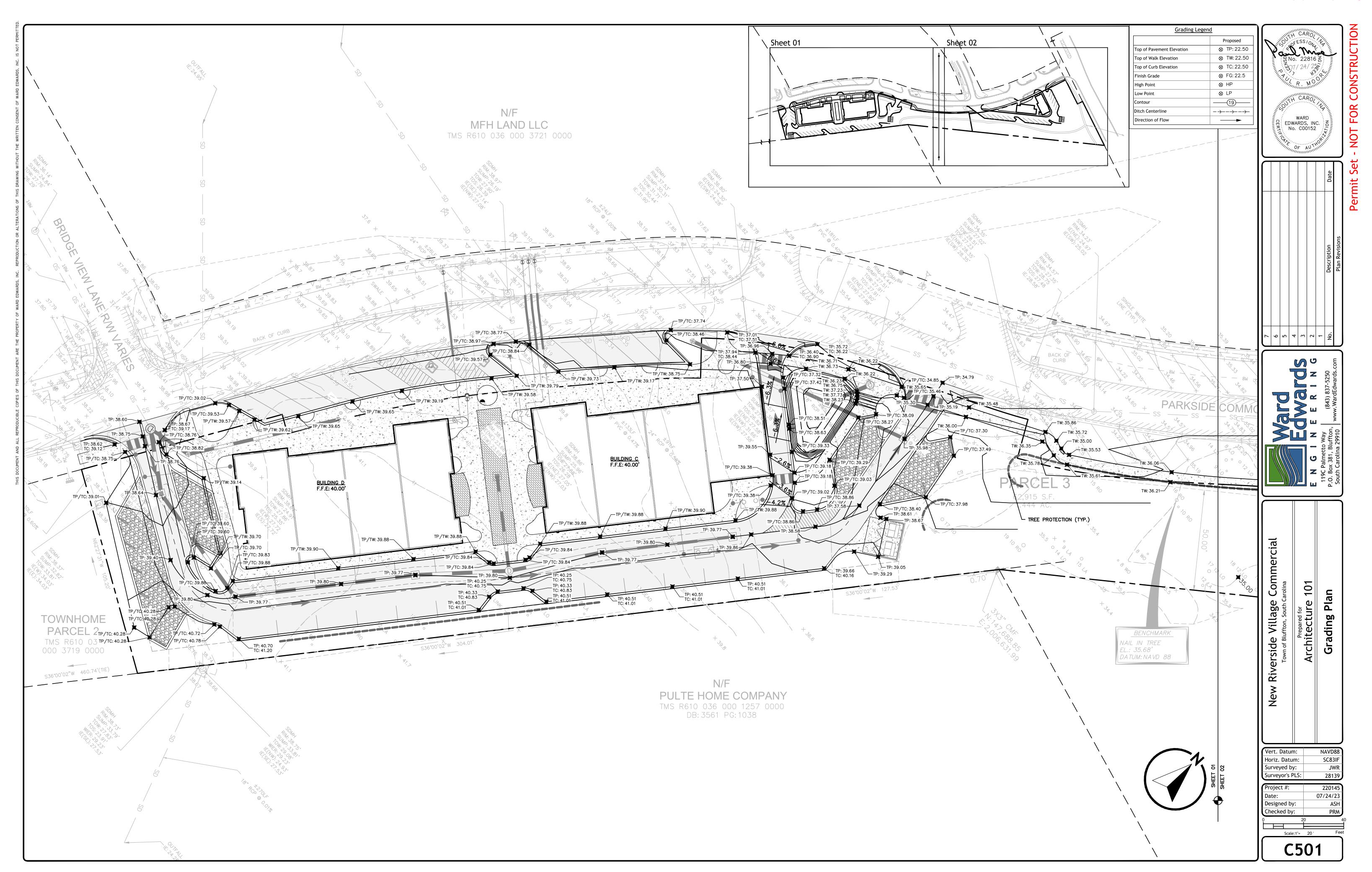
COVER SURFACES WITH CRUSHED STONE OR GRAVEL

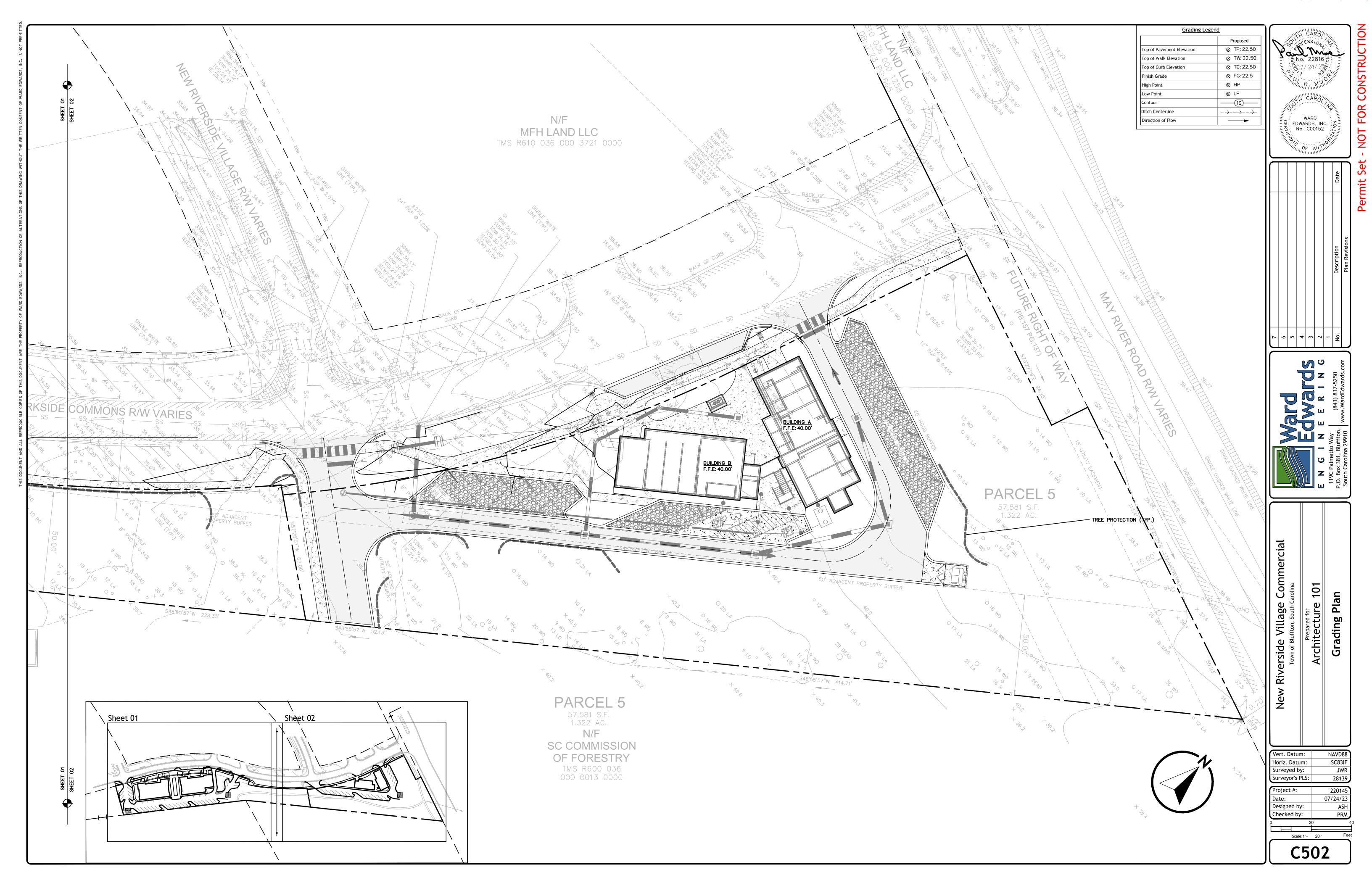


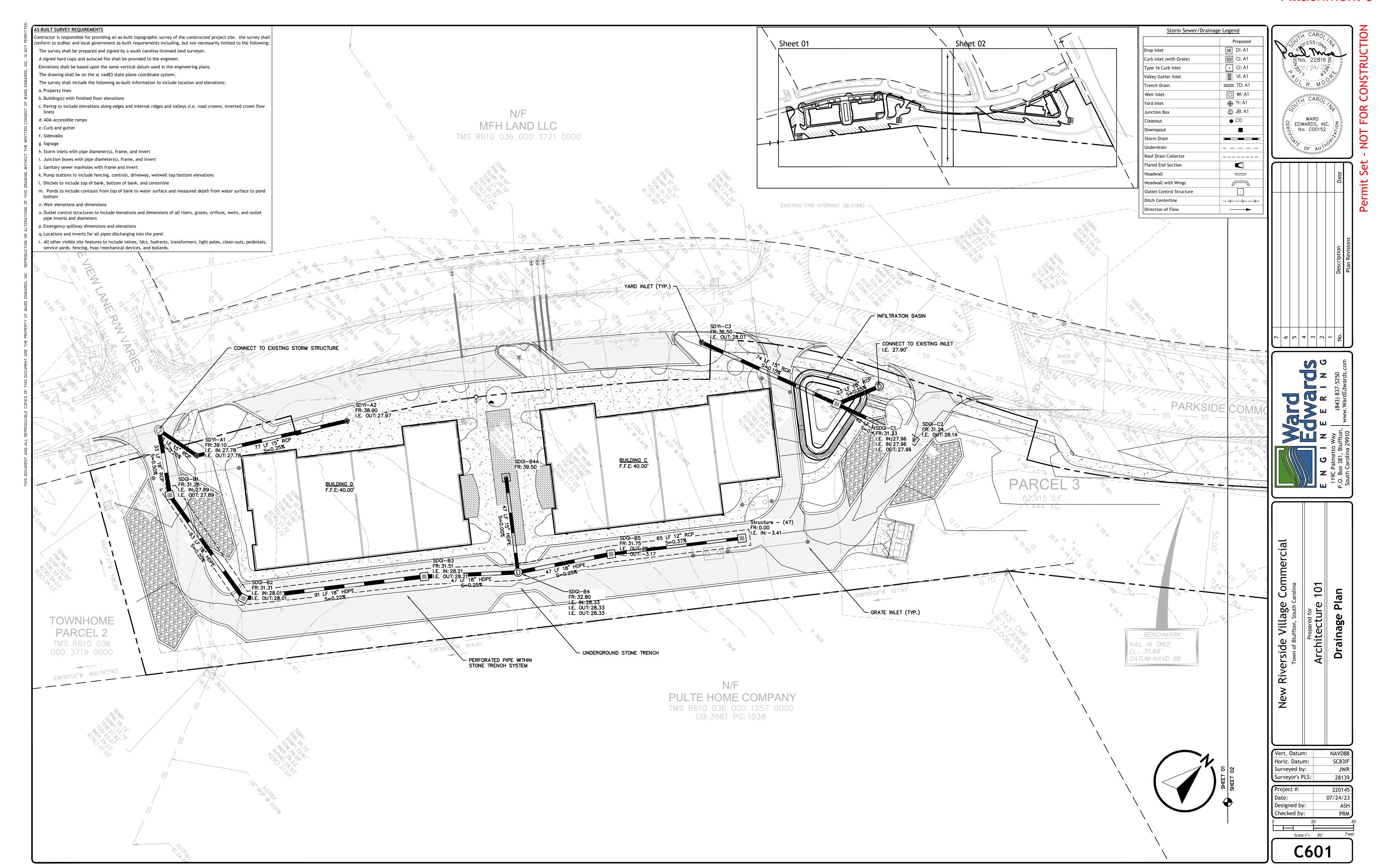


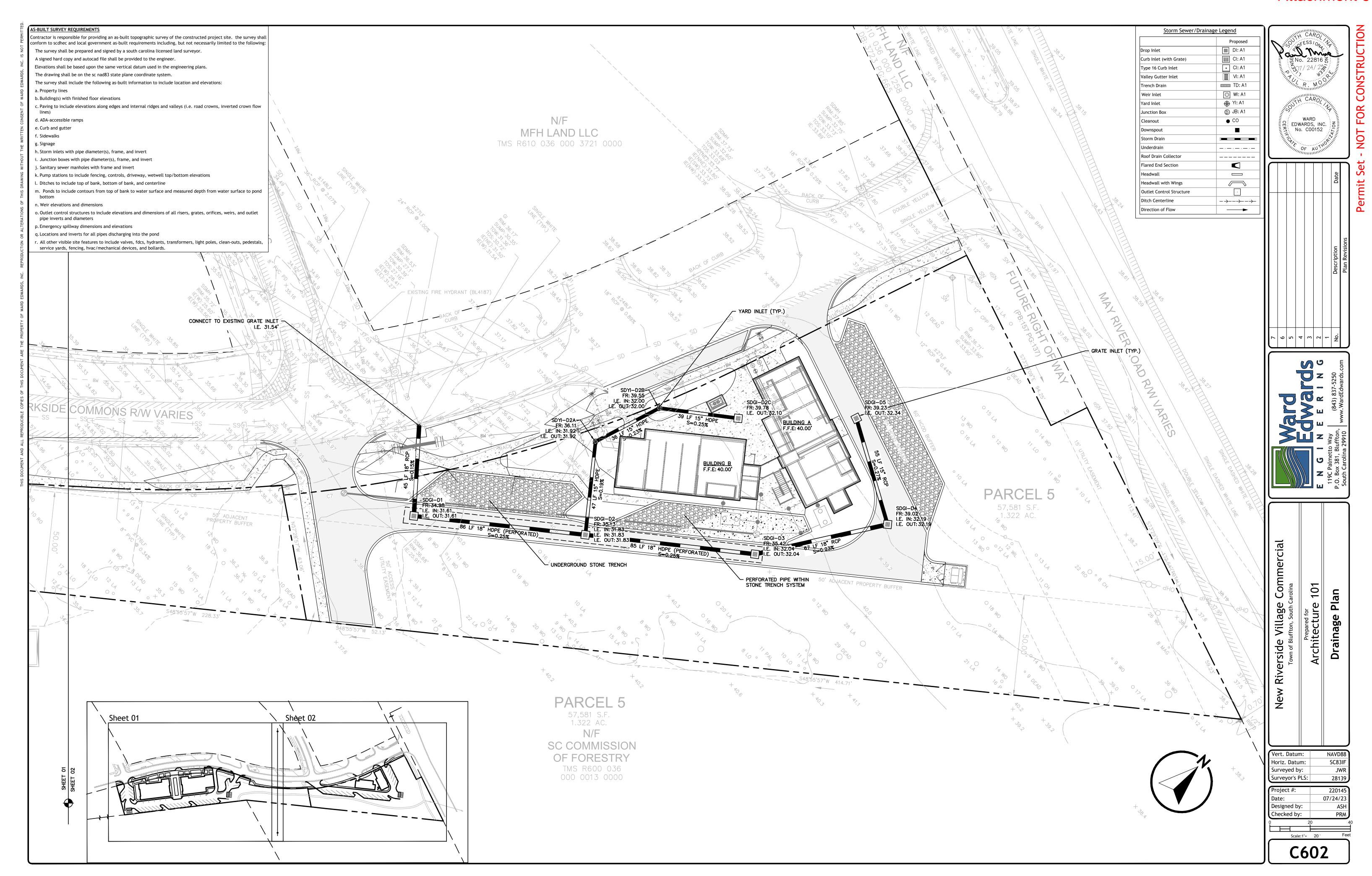


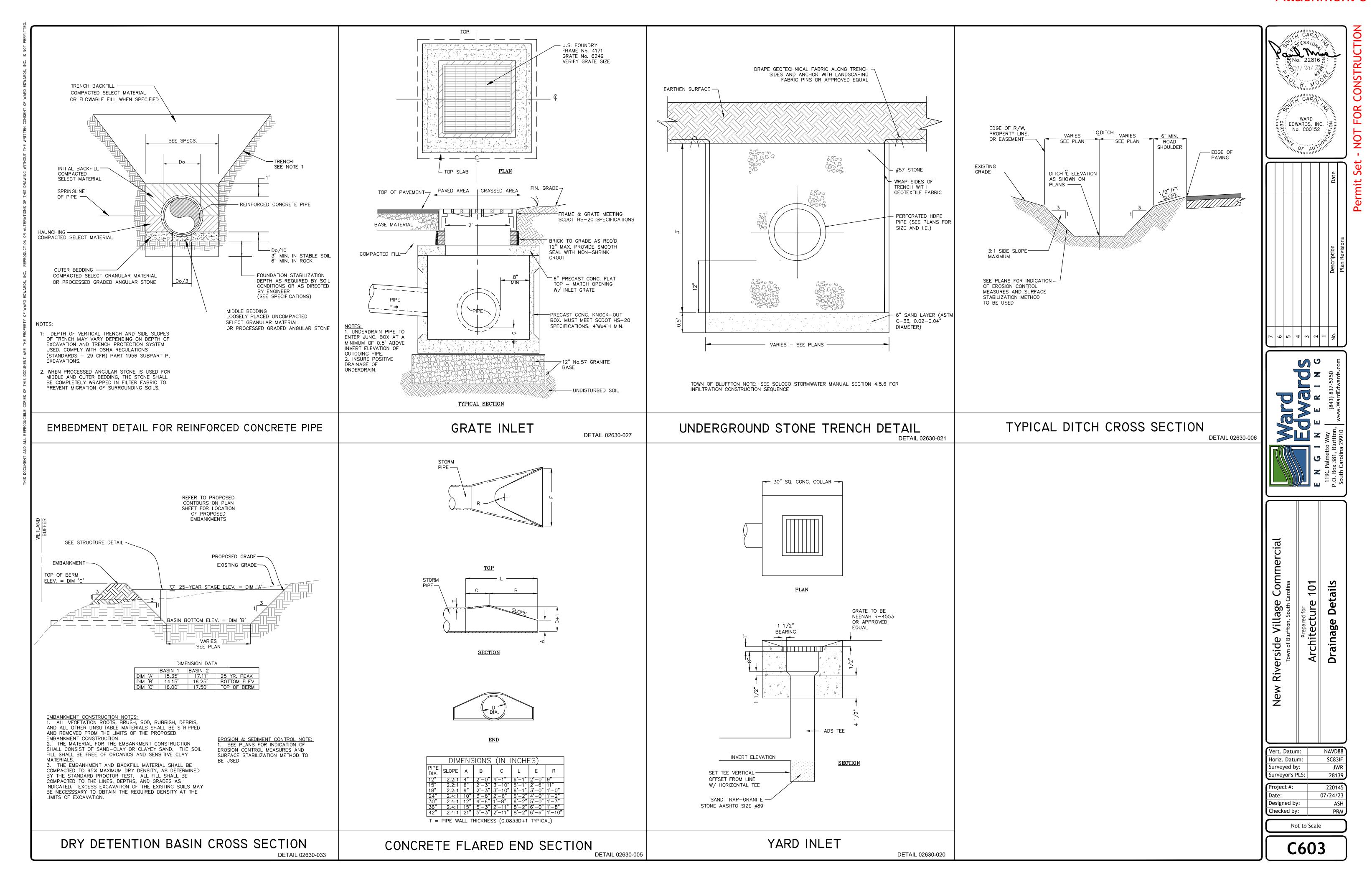


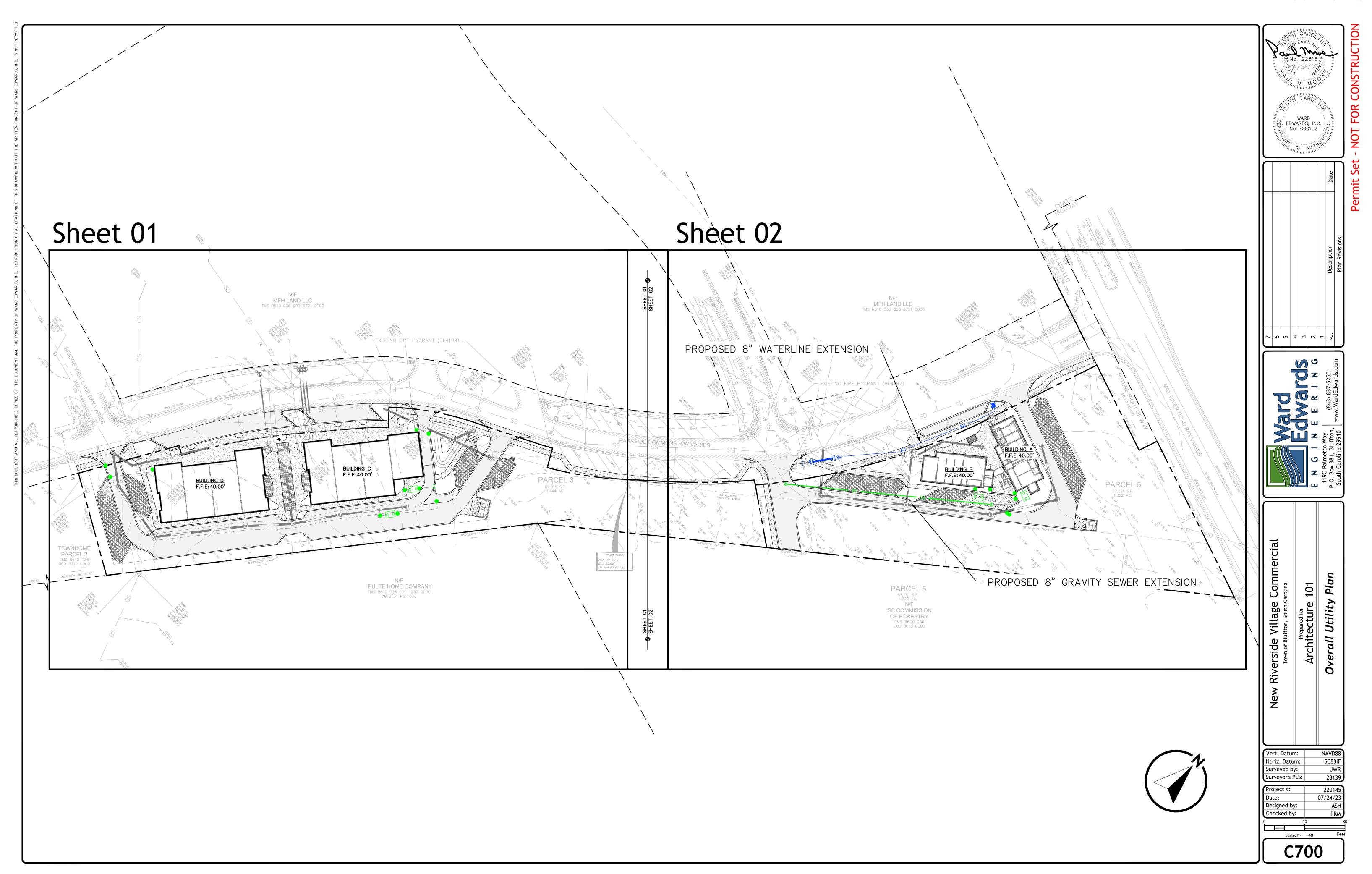


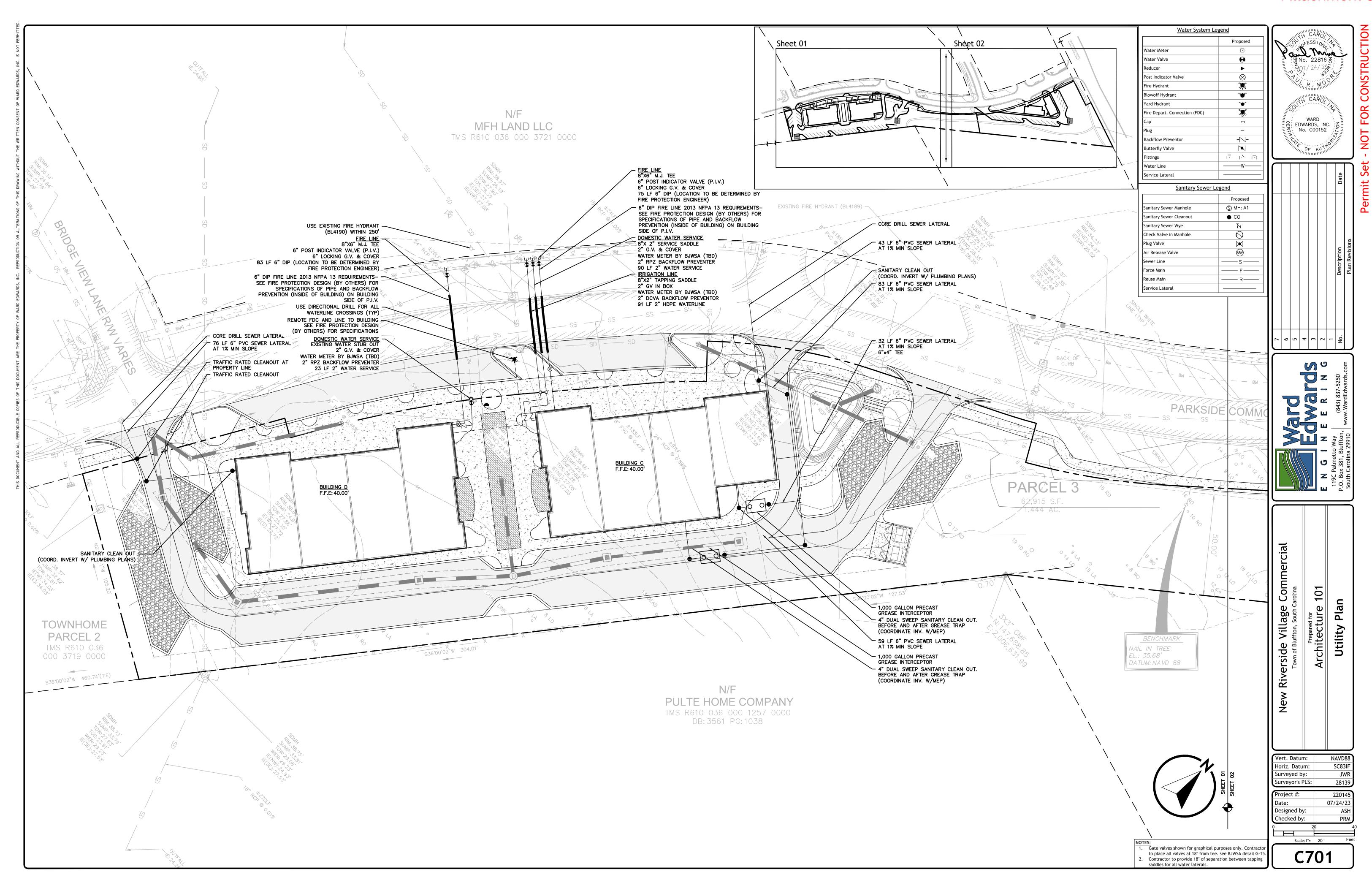


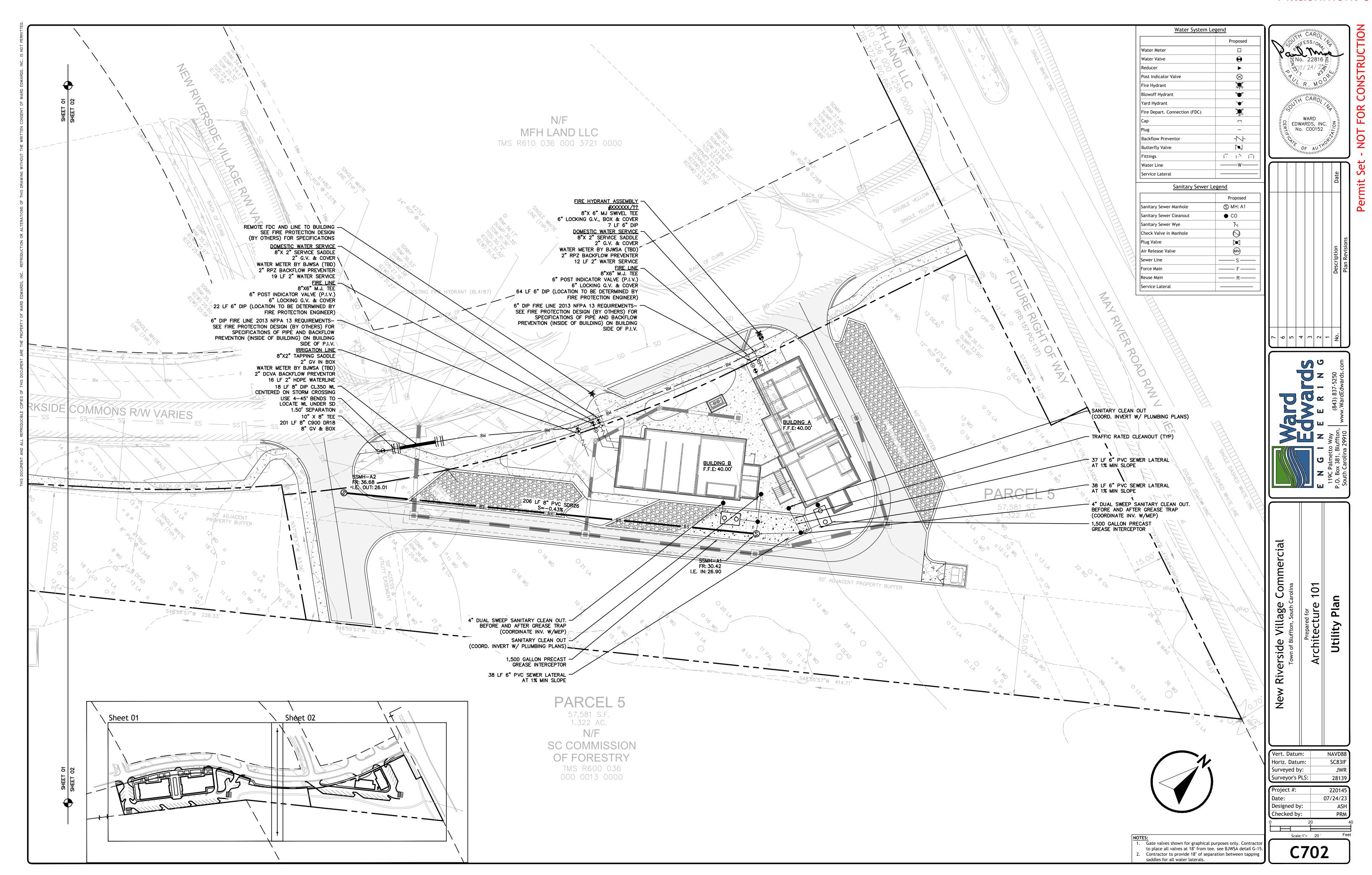


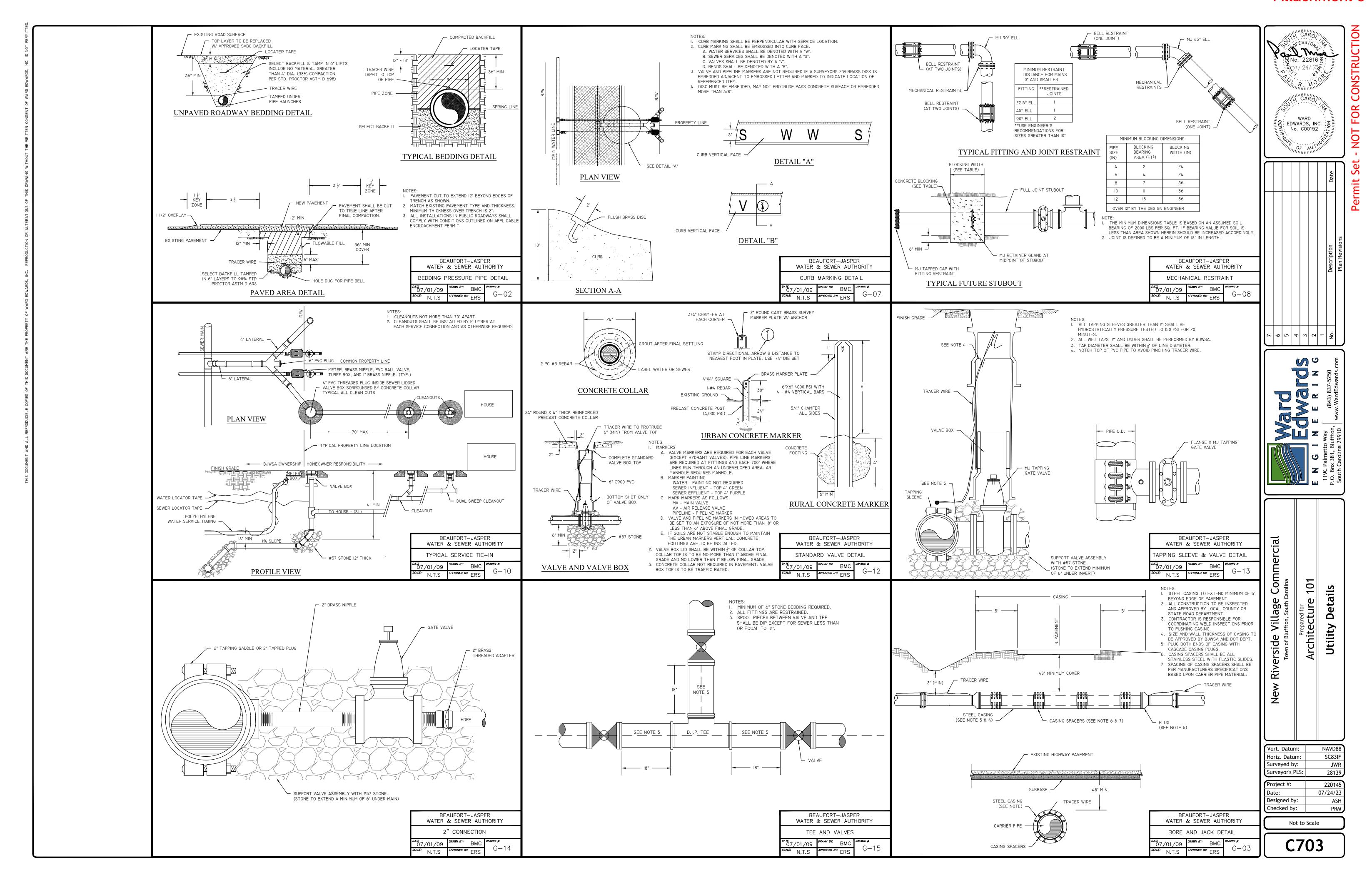


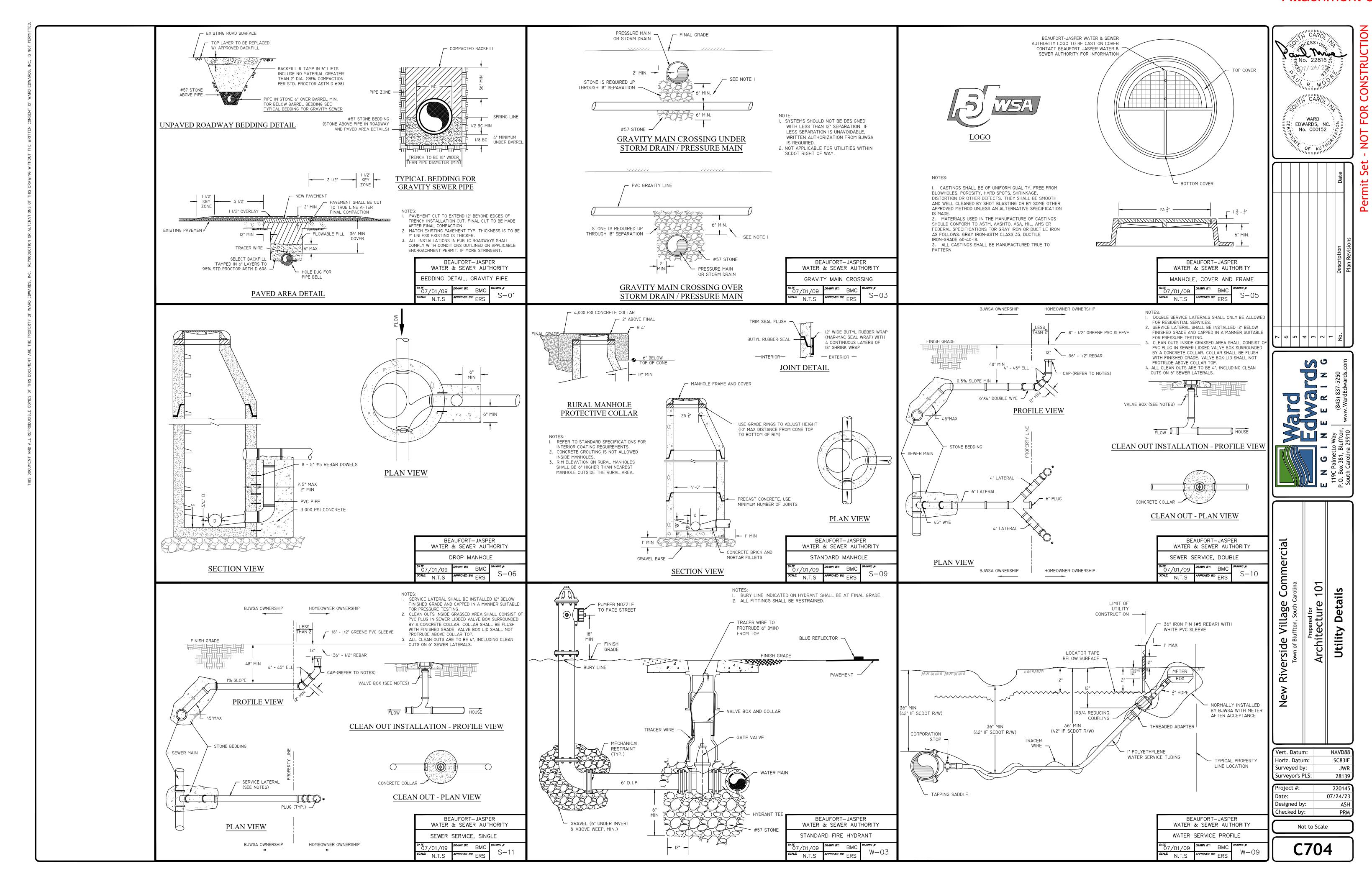


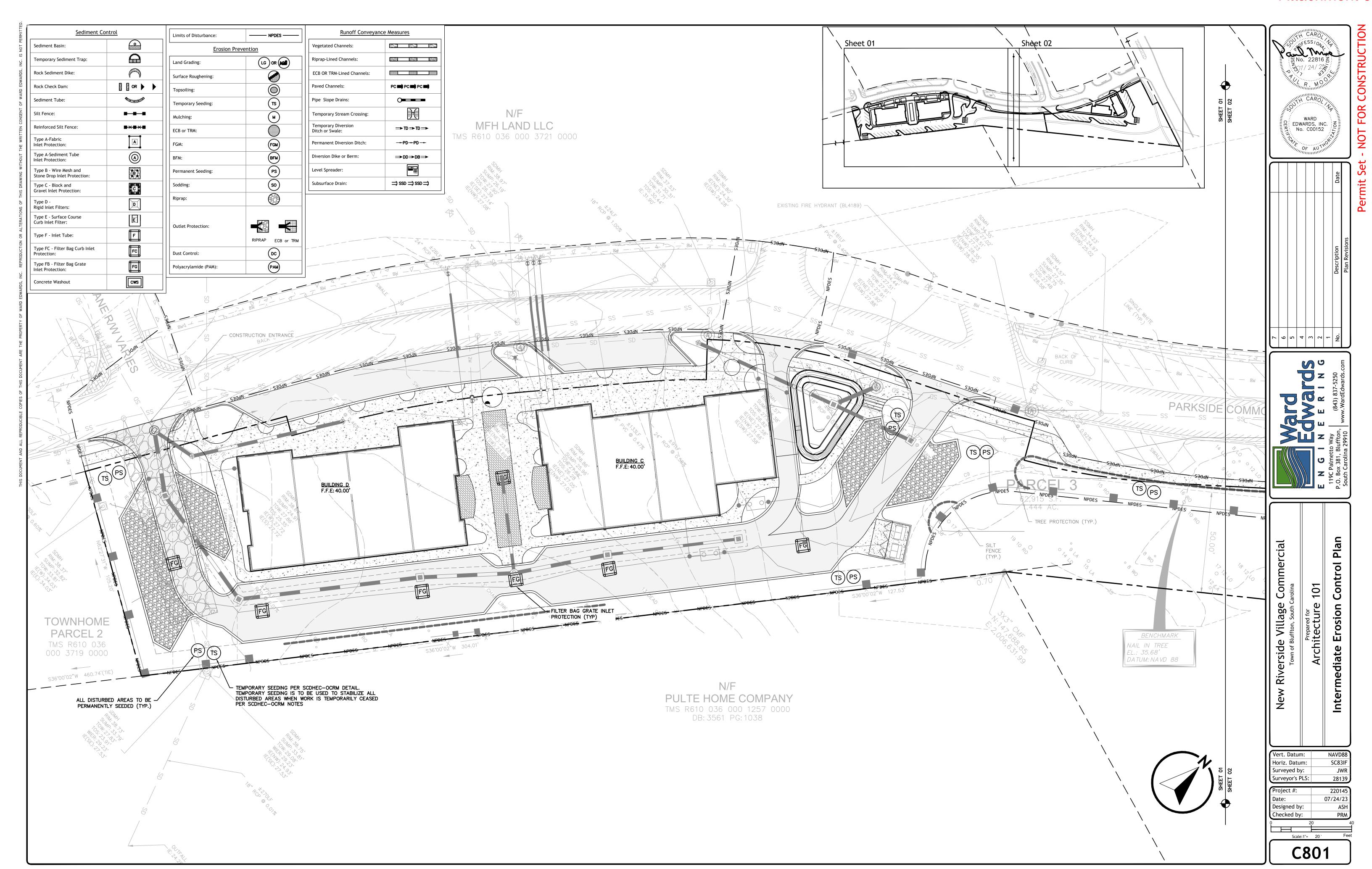


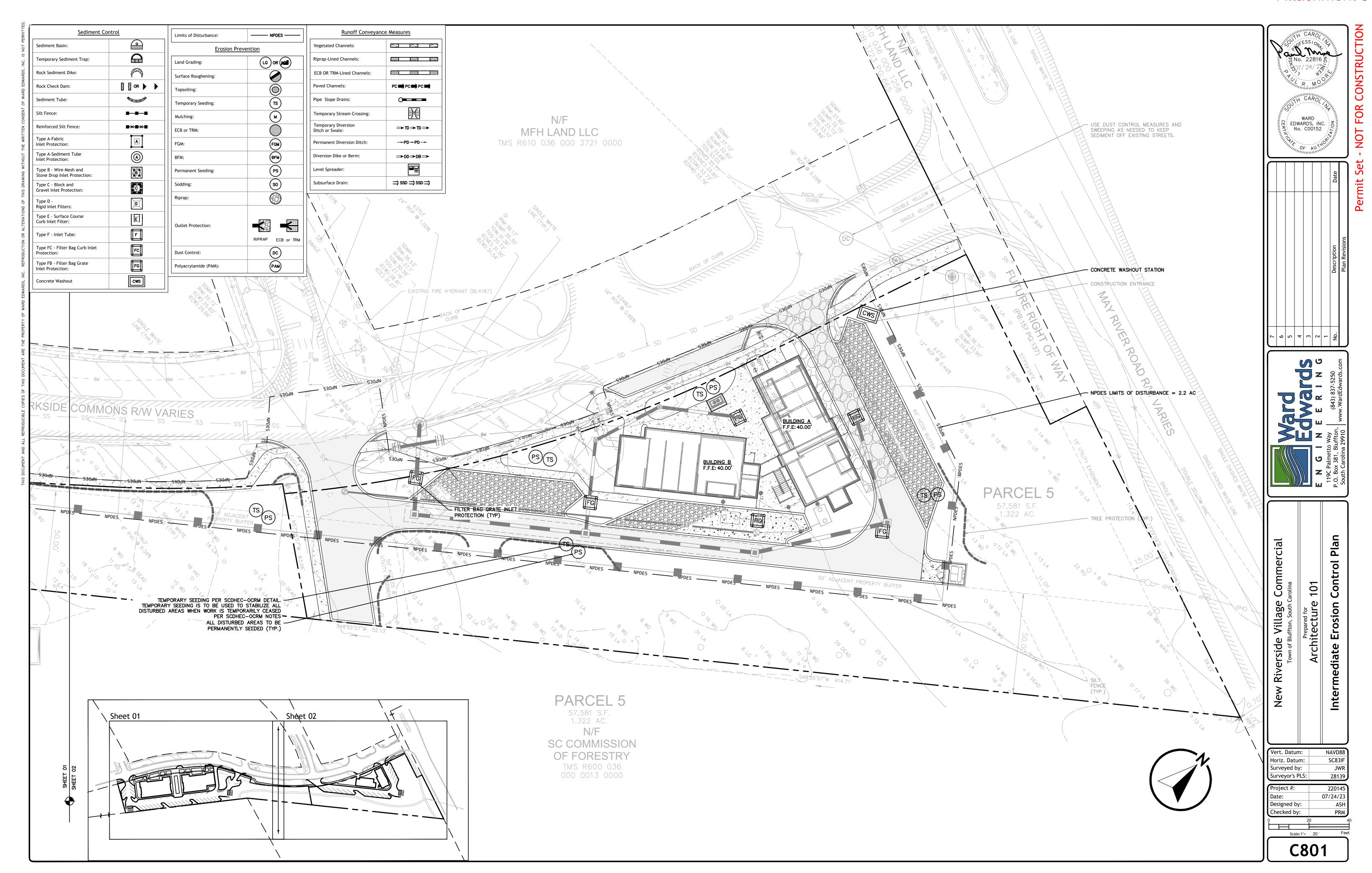


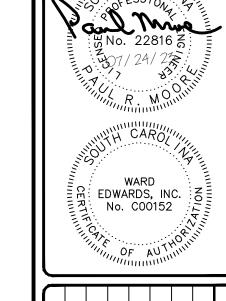


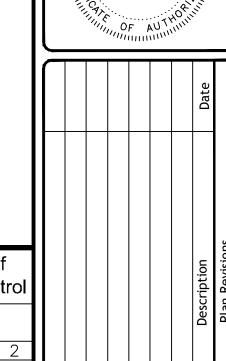












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