



Administrative Approval Action

Case File / Name: ASR-0099-2022
DSLCL - LCCU New Bern Avenue Branch

City of Raleigh
Development Services Department
One Exchange Plaza
Raleigh, NC 27602
(919) 996-2492
currentplanning@raleighnc.gov
www.raleighnc.gov

LOCATION: This site is located on the south side of New Bern Avenue, east of N. Rogers Lane at 5280 New Bern Ave.

REQUEST: Development of a 1.07 acre/46,751sf tract zoned PD (MP-1-96/Z-45-96: Rogers Farm Planned Development) with a base UDO district of -CX. The proposed development is a 5,021 square foot general building for a bank with two drive-thru lanes.

MP-1-96/Z-45-96 - Effective September 3, 1996: Roger's Farm Master Plan Development.

DESIGN ADJUSTMENT(S)/ ALTERNATES, ETC: N/A

FINDINGS: City Administration finds that this request, with the below conditions of approval being met, conforms to the Unified Development Ordinance. This approval is based on a preliminary plan dated November 17, 2023 by Robby Wayne.

CONDITIONS OF APPROVAL and NEXT STEPS:

This document must be applied to the second sheet of all future submittals except for final plats. This is a preliminary plan and as such no permits have been issued with this approval. To obtain permits and/or completion of the project, the following steps are required:

SITE PERMITTING REVIEW - For land disturbance of 12,000 square feet or greater, public or private infrastructure, shared stormwater devices, etc. Site Permitting Review may be submitted upon receipt of this signed approval document.

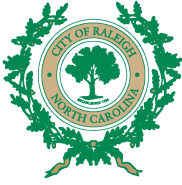
The following items are required prior to approval of Site Permitting Review plans:

General

1. Sheet A202, the transparency table is revised for the North Elevation. The total "provided" transparency calculation "287'sf" is revised & includes all window transparency shown.
2. A recorded copy of plat S-58-02 Roger's Farm Subdivision (BM 2003 PG's 156-158) are inserted with the civil Site Permit Review plans set.
3. Provide verification that a cross access easement has been recorded between the proposed bank site (PIN 1734433643) and the adjacent parcel to the south (PIN 1734339337) and add reference to the easement on the site plan.

Stormwater

4. A surety equal to of the cost of clearing, grubbing and reseeding a site, shall be paid to the City (UDO 9.4.4).



Administrative Approval Action

Case File / Name: ASR-0099-2022
DSLCL - LCCU New Bern Avenue Branch

City of Raleigh
Development Services Department
One Exchange Plaza
Raleigh, NC 27602
(919) 996-2492
currentplanning@raleighnc.gov
www.raleighnc.gov

5. A stormwater control plan with a stormwater operations and maintenance manual and budget shall be approved (UDO 9.2).
6. A nitrogen offset payment must be made to a qualifying mitigation bank (UDO 9.2.2.B).

RECORDED MAP(S) - Submit plat to record new property lines, easements, tree conservation areas, etc.). Plats may be submitted for review when the Site Permitting Review plans, if required, have been deemed ready for mylar signature.

The following items must be approved prior to recording the plat:

Stormwater

1. All stormwater control measures and means of transporting stormwater runoff to and from any nitrogen and stormwater runoff control measures shall be shown on all plats for recording as private drainage easements (UDO 9.2).
2. A surety equal to 125% of the cost of the construction of a stormwater device shall be paid to the Engineering Services Department (UDO 9.2.2.D.1.d).

BUILDING PERMITS - For buildings and structures shown on the approved plans. Commercial building permit plans must include the signed, approved Site Permitting Review plans attached, if applicable. Permit sets may be reviewed prior to the recordation of required plats, but cannot be approved.

The following items must be approved prior to the issuance of building permits:

Urban Forestry

1. A tree impact permit must be obtained for the approved streetscape tree installation in the right of way. This development proposes 9 street trees along New Bern Ave.
2. A public infrastructure surety for the 9 required street trees shall be provided to City of Raleigh Transportation – Development Engineering Division (UDO 8.1.3) in the amount of 100% of the improvement cost for the NCDOT portion and 125% of the improvement cost for the City of Raleigh infrastructure.

The following are required prior to issuance of building occupancy permit:

General

1. All Water, Sanitary Sewer and Reuse facilities shall be installed, inspected, tested and accepted by the City of Raleigh Public Utilities Department for operations and maintenance.

Stormwater



Administrative Approval Action

Case File / Name: ASR-0099-2022
DSLCL - LCCU New Bern Avenue Branch

City of Raleigh
Development Services Department
One Exchange Plaza
Raleigh, NC 27602
(919) 996-2492
currentplanning@raleighnc.gov
www.raleighnc.gov

2. As-built impervious survey is accepted by the Engineering Services Department (UDO 9.2).
3. As-built drawings and associated forms for all Stormwater devices are accepted by the Engineering Services Department (UDO 9.2.2.D.3).

EXPIRATION DATES: The expiration provisions of UDO Section 10.2.8 E, including the ability to request extensions in the expiration date, apply to this site plan. If significant construction has not taken place on a project after administrative site review approval, that approval may expire and be declared void, requiring re-approval before permits may be issued. To avoid allowing this plan approval to expire the following must take place by the following dates:

3-Year Expiration Date: June 6, 2027

Obtain a valid building permit for the total area of the project, or a phase of the project.

4-Year Completion Date:

Within four years after issuance of the first building permit for the site plan, the construction of the entire site plan must be completed unless an applicant has been granted vested rights. Failure to complete construction within this specified time frame shall automatically void the approved site plan for which no building permits have been issued.

I hereby certify this administrative decision.

Signed: _____ *Jermont Purifoy* _____ Date: 06/06/2024
 Development Services Dir/Designee
Staff Coordinator: Jermont Purifoy

EXISTING PROPERTY LINE	----
MAINTAINED AS R/W LINE	-----R/W-----
TEMPORARY CONSTRUCTION EASEMENT	-----C-----
EXISTING EASEMENT	-----E-----
EXISTING SETBACK	-----S-----
EXISTING LANDSCAPE BUFFER	-----L-----
EXISTING PRIVATE DRAINAGE EASEMENT	-----PDC-----
EXISTING SEWER EASEMENT	-----SSE-----
EXISTING CONTOURS	-----E77-----
PROPOSED CONTOURS	-----E77-----
EXISTING EDGE OF PAVEMENT	-----EP-----
EXISTING CURB AND GUTTER	-----CG-----
EXISTING FENCE	-----F-----
PROPOSED CHAIN LINK FENCE	-----CLF-----
EXISTING WOOD FENCE	-----WF-----
EXISTING TELEPHONE FIBER OPTIC	-----TVFO-----
EXISTING CABLE TV FIBER OPTIC	-----CATV-----
EXISTING DITCH LINE	-----DL-----
EXISTING GAS LINE	-----GL-----
EXISTING WATER LINE	-----WL-----
EXISTING WATER SERVICE	-----WS-----
EXISTING SANITARY SEWER	-----SS-----
EXISTING SEWER LATERAL	-----SL-----
EXISTING UNDERGROUND TELEPHONE	-----UT-----
EXISTING UNDERGROUND FIBER OPTIC	-----UF-----
EXISTING UNDERGROUND ELECTRIC	-----UE-----
EXISTING OVERHEAD ELECTRIC	-----OE-----
EXISTING TELEPHONE	-----TE-----
EXISTING STORM DRAINAGE PIPE	-----SDP-----
PROPOSED STORM DRAINAGE PIPE	-----PSDP-----
PROPOSED SLOPE STAKE LIMIT	-----SSL-----
EXISTING TOP OF BANK	-----TOB-----
EXISTING TOE OF BANK	-----TOE-----
EXISTING TREE LINE	-----TL-----
EXISTING TREE	-----T-----
EXISTING SHRUB	-----S-----
TREE PROTECTION	-----TP-----
TREE REMOVAL	-----TR-----
EXISTING GAS VALVE	-----GV-----
EXISTING WATER METER	-----WM-----
EXISTING WATER VALVE	-----WV-----
EXISTING FIRE HYDRANT	-----FH-----
EXISTING SANITARY SEWER MANHOLE/CLEANOUT	-----SSM/C-----
EXISTING HAND HOLD FIBER OPTIC	-----HHFO-----
PROPOSED CATCH BASIN	-----CB-----
EXISTING DROP INLET	-----DI-----
PROPOSED DROP INLET	-----PDI-----
EXISTING STORM DRAIN MANHOLE	-----SDM-----
EXISTING POWER POLE	-----PP-----
EXISTING UTILITY/LIGHT POLE	-----ULP-----
PROPOSED UTILITY/LIGHT POLE	-----PULP-----
EXISTING GUY WIRE	-----GW-----
EXISTING IRON PIN	-----IP-----
PROPOSED CURB	-----PC-----
PROPOSED SIDEWALK	-----PS-----
PROPOSED FULL DEPTH ASPHALT REPLACEMENT	-----PFR-----

INDEX OF SHEETS

COVER	00.0
ADDITIONAL FORMS	00.1
EXISTING CONDITIONS	C1.0
DEMOLITION PLAN	C1.1
SITE PLAN	C2.0
SITE PLAN	C2.1
SITE PLAN DETAILS	C2.2
SITE PLAN DETAILS	C2.3
SITE PLAN DETAILS	C2.4
EROSION CONTROL PHASE 1	C3.0
EROSION CONTROL PHASE 2	C3.1
EROSION CONTROL NOTES	C3.2
EROSION CONTROL NOTES	C3.3
EROSION CONTROL DETAILS	C3.4
GRADING - DRAINAGE	C4.0
DRAINAGE PROFILES	C4.1
GRADING - DRAINAGE DETAILS	C4.2
UTILITY PLAN	C5.0
WATER DETAILS	C5.1
SEWER DETAILS	C5.2
LANDSCAPE PLAN	C6.0
STORMWATER MANAGEMENT FACILITY PLAN	C7.0
STORMWATER MANAGEMENT CONTECH DETAILS	C7.1 - C7.3



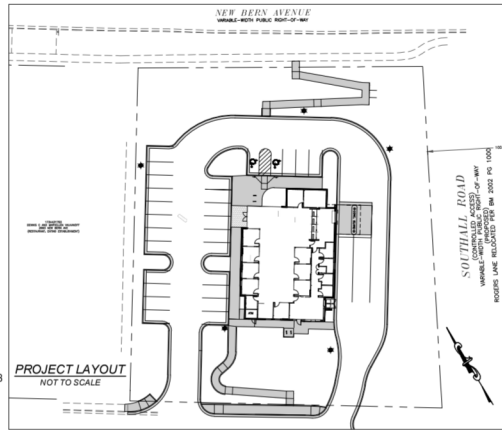
LCCU - NEW BERN AVENUE BRANCH

5280 NEW BERN AVENUE

RALEIGH, NC 27601

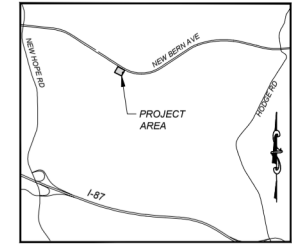
CASE NO. ASR-0099-2022

SITE PERMIT



GENERAL NOTES:

- COORDINATE ALL CURB AND STREET GRADES AT DRIVEWAY INTERSECTIONS WITH INSPECTOR.
- SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
- DIRECT VEHICULAR ACCESS TO AND FROM LOTS IS PROHIBITED.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
- IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB GUTTER.
- THE PURPOSE OF THE STORM DRAINAGE EASEMENT (SDE) IS TO PROVIDE STORM WATER CONCERNING BUILDINGS ARE NOT PERMITTED IN THE EASEMENT AREA. ANY OTHER OBJECTS WHICH IMPED STORM WATER FLOW OR SYSTEM MAINTENANCE ARE ALSO PROHIBITED.
- PE SEALED SHOP DRAWINGS FOR RETAINING WALL MUST BE SUBMITTED TO CITY ENGINEER PRIOR TO CONSTRUCTION.
- "AS-BUILT" DRAWINGS AND PLANS OF THE STORM DRAINAGE SYSTEM, INCLUDING DESIGN DETAIL SHEETS, MUST BE SUBMITTED PRIOR TO FINAL INSPECTION TO THE CITY ENGINEERING DEPARTMENT IN ACCORDANCE WITH THE CITY ORDINANCE.
- PRIOR TO INSTALLATION, PE SEALED SHOP DRAWINGS FOR UNDERGROUND DESIGN SYSTEMS MUST BE FURNISHED TO CITY OF RALEIGH ENGINEERING FOR APPROVAL.
- PRIOR TO CO, SURVIVOR SEALED AS-BUILT DRAWINGS OF ALL WATER QUALITY BMP'S AND DETENTION SYSTEMS MUST BE PROVIDED.
- PRIOR TO PLAT RECONSTRUCTION, OFFSITE RIGHT-OF-WAY (R/W) AND/OR EASEMENTS ARE REQUIRED TO BE OBTAINED ACCORDING TO THE GUIDELINES OF THE "OFFSITE R/W ACQUISITION PROCESS".
- ALL REQUIRED NATURAL AREAS AND/OR POST CONSTRUCTION CONTROLS EASEMENTS (PCCES) MUST BE RECONSTRUCTED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
- NON-STANDARD ITEMS (E.G. PAVERS, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT-OF-WAY REQUIRE A RIGHT-OF-WAY ENCROACHMENT AGREEMENT.
- SIDEWALK WITHIN THE CITY'S R/W THAT REQUIRES REPLACEMENT AS PART OF THE DEVELOPMENT AND/OR STREET IMPROVEMENTS SHOULD BE PHASED IN SUCH A WAY AS TO MINIMIZE THE DURATION OF THE SIDEWALK CLOSURE TO THE EXTENT FEASIBLE. THE DEVELOPER SHOULD MAKE EVERY ATTEMPT TO HAVE SIDEWALK REPAIRED AND REOPENED FOR PUBLIC USE WITHIN 30 DAYS OF REMOVAL.
- ANY WORK WITHIN THE CITY'S R/W THAT REQUIRES CLOSURE OF THE SIDEWALK OR TRAVEL LANE FOR LESS THAN 30 DAYS REQUIRES A R/W USE PERMIT, TRAFFIC CONTROL PLANS FOR ANY SIDEWALK OR TRAVEL LANE CLOSURES MUST BE SUBMITTED AS PART OF THE R/W USE PERMIT REQUEST.
- PER TC-5A-18 & SEC.1.5.4.C, THE PRIMARY STREET DESIGNATION SHALL BE NEW BERN AVE.
- SOLID WASTE SERVICES SHALL BE PROVIDED BY A PRIVATE HAULER (REPUBLIC SERVICES).



VICINITY MAP NOT TO SCALE

TRAFFIC CONTROL AND PEDESTRIAN PLAN (TCPEP) NOTES:

- PRIOR TO ANY WORK THAT IMPACTS THE RIGHT-OF-WAY CLOSURE OR RESTRICTION OF ANY STREET, LANE, OR SIDEWALK, THE CONTRACTOR MUST APPLY FOR A PERMIT WITH RIGHT-OF-WAY SERVICES. PLEASE DIRECT ANY QUESTIONS TO RIGHTOFWAYSERVICES@RALEIGHNC.GOV.
- THE STREET, LANE, SIDEWALK, CLOSURE PERMIT IS REQUIRED FOR ANY CLOSURE ON CITY STREETS AND ALL NCOTD STREETS WITHIN RALEIGH'S JURISDICTION.
- A PERMIT REQUEST WITH A TCPEP PLAN SHALL BE SUBMITTED TO RIGHT-OF-WAY SERVICES THROUGH THE CITY OF RALEIGH PERMIT AND DEVELOPMENT PORTAL.
- PRIOR TO THE START OF WORK, THE CLIENT SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE ENGINEERING INSPECTIONS COORDINATOR TO REVIEW THE SPECIFIC COMPONENTS OF THE APPROVED PLAN, AND ENSURE ALL PERMITS ARE ISSUED.
- ALL TOPEP PLANS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND STANDARDS, INCLUDING BUT NOT LIMITED TO:
 - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
 - PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG)
 - AMERICAN DISABILITY ACT (ADA) REQUIREMENTS
 - RALEIGH STREET DESIGN MANUAL (RSDM)
- ALL PUBLIC SIDEWALKS MUST BE ACCESSIBLE TO PEDESTRIANS WHO ARE VISUALLY IMPAIRED AND/OR PEOPLE WITH MOBILITY CONCERNS. EXISTING AND ALTERNATIVE PEDESTRIAN ROUTES DURING CONSTRUCTION SHALL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). THE ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL PERMITS MUST BE AVAILABLE AND VISIBLE ON SITE DURING THE OPERATION.

SOLID WASTE COMPLIANCE STATEMENT: DEVELOPERS HAVE REVIEWED AND ARE IN COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN THE SOLID WASTE PERIOD MANUAL.

PREPARED BY:

LaBella
Powered by partnership.

400 S. Tryon Street
Suite 1300
Charlotte, NC 28285
704-376-6423
N.C. License # C-0430
labella.com
Robert Wilson, P.E.
rwilson@labellapc.com

PUBLIC UTILITY TABLE	
WATER	OLF
SEWER	OLF

No Public Utility Extensions Required

Administrative Site Review Application

Planning and Development Customer Service Center • One Exchange Plaza, Suite 400 | Raleigh, NC 27601 | (919) 988-2800

This form is required when submitting site plans as referenced in Unified Development Ordinance (UDO) Section 10.2.8. Please check the appropriate building types and include the plan checklist document when submitting.

Office Use Only: Case #: _____ Planner (print): _____

Please review UDO Section 10.2.8 to determine the site plan tier. If assistance determining a Site Plan Tier is needed a Site Plan Tier Verification request can be submitted online via the Permit and Development Portal. (Note: There is a fee for this verification service.)

Site Plan Tier: Tier Two Site Plan Tier Three Site Plan

Building and Development Type	Site Transaction History
<input type="checkbox"/> Detached <input type="checkbox"/> Attached <input type="checkbox"/> Townhouse <input type="checkbox"/> Apartment <input type="checkbox"/> Try house <input type="checkbox"/> Open lot	<input checked="" type="checkbox"/> General <input type="checkbox"/> Mixed use <input type="checkbox"/> Civic <input type="checkbox"/> Cottage Court <input type="checkbox"/> Frequent Transit <input type="checkbox"/> Development Option

Subdivision case #: _____
 Scoping/lotwidth plan case #: _____
 Certificate of Appropriateness #: _____
 Board of Adjustment #: _____
 Zoning Case #: _____
 Design Alternates #: _____

GENERAL INFORMATION

Development name: LCCU - New Bern Avenue Branch
 Inside City limits? Yes No
 Property addresses: 5280 New Bern Avenue, 1030 N. Rodgers Lane (secondary property)
 Site P.I.N(s): 1734433643, 1734339337 (secondary property for downstream easement)
 Please describe the scope of work, include any additions, expansions, and uses (UDO 6.1.4).
 The 1.07 acre project site will consist of constructing a new bank with parking and 2 drive through bays. Construction will consist of adding a 1,07 of building, curb and gutter, asphalt parking, adjacent accessible sidewalk from right-of-way, open spaces, trees and shrubs, underground water quality and detention facility, and drainage outlet. Improvements on the secondary property are driveway and sidewalk access additions to match surrounding lot parcels and extension of storm drain outlet to existing pipe system.

Current Property Owner(s): Etna Claro | Title: Director of Facilities
 Company: Latino Community Credit Union | Address: 100 West Morgan Street, Durham, NC 27701
 Phone #: (919) 595-1733 | Email: etna@latinoocu.org
 Applicant Name (if different from owner, See "who can apply" in instructions): Robert Wilson, PE
 Relationship to owner: Lessee or contract purchaser Owner's authorized agent Easement holder

Company: LaBella Associates | Address: 400 South Tryon Street, Suite 1300, Charlotte, NC 28285
 Secondary Property Owner: | Title: Ashley Cicero, Manager
 Company: Ardema Edgewater LLC | Phone: (919) 796-5064
 Address: PO Box 13470, Richmond, VA 23225 | Email: ashley_cicero@ardemacollins.com
 Signature: _____ | Date: 9/20/2023 | raleighnc.gov

Development Type • SITE DATE TABLE (Applicable to all developments)

SITE DATA	BUILDING DATA
Zoning district(s) (please provide the acreage of each): PD	Existing gross floor area to be demolished:
Gross site acreage: 1.07	Existing gross floor area to be demolished:
# of parking spaces proposed: 27	New gross floor area: 5,021
Max # parking permitted (7.1.2.C): Minimum of 17	Total # of gross (to remain and new): 5,021
Overlay District (if applicable):	Proposed # of buildings: 1
Existing use (UDO 6.1.4): Vacant	Proposed # of stories for each: 1
Proposed use (UDO 6.1.4): Cx-Commercial Mixed Use	Proposed # of basement levels (UDO 1.5.7 A.6) 0

STORMWATER INFORMATION

Imperious Area on Parcels(s):	Imperious Area for Compliance (includes ROW):
Existing (sf): _____	Proposed total (sf): 0.59
Existing (sf): _____	Proposed total (sf): 25,765

RESIDENTIAL AND OVERNIGHT LODGING DEVELOPMENTS

Total # of dwelling units:	Total # of hotel bedrooms:
# of bedroom units: 1br _____ 2br _____ 3br _____ 4br or more _____	
# of lots: _____	Is your project a cottage court? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	A frequent transit development? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Continue to Applicant Signature Block on Page Three.

APPLICANT SIGNATURE BLOCK

Pursuant to state law (N.C. Gen. Stat. § 160D-403(a)), application for development approvals may be made by the landowner, a lessee or person holding an option or contract to purchase or lease land, or an authorized agent of the landowner. An easement holder may also apply for development approval for such development as authorized by the easement.

By submitting this application, the undersigned applicant acknowledges that they are either the property owner or one of the persons authorized by state law (N.C.G.S. 160D-403(a)) to make this application, as specified in the application. The undersigned also acknowledges that the information and statements made in the application are correct and the undersigned understands that development approvals are subject to revocation for false statements or misrepresentations made in securing the development approval, pursuant to N.C. Gen. Stat. § 160D-403(e).

The undersigned indicates that the property owner(s) is aware of this application and that the proposed project described in this application will be maintained in all respects in accordance with the plans and specifications submitted herewith, and in accordance with the provisions and regulations of the City of Raleigh Unified Development Ordinance.

The undersigned hereby acknowledges that, pursuant to state law (N.C.G.S. 143-750(b)), if this permit application is placed on hold at the request of the applicant for a period of six consecutive months or more, or if the applicant fails to respond to comments or provide additional information requested by the City for a period of six consecutive months or more, then the application review is discontinued and a new application is required to proceed and the development requirements are effective at the time permit processing is resumed shall apply to the new application.

Signature: _____ Date: September 18, 2023
 Printed Name: Robert Wilson, PE

Page 3 of 3 | revision 1.23.23 | raleighnc.gov

COOPERATIVA LATINO CREDIT UNION

LCCU - NEW BERN AVENUE BRANCH

5280 NEW BERN AVENUE
RALEIGH, NC 27601

Produced by partnership

SEPTEMBER 2023

LaBella
Powered by partnership.

CO.O

Project Data Sheet

Planning and Development Customer Service Center • One Exchange Plaza, Suite 400 • Raleigh, NC 27601 | 919-996-2300



GENERAL INFORMATION
Development Name: Edgewater Place
Proposed Use: Office (Bank)
Property Address(es): 5280 New Bern Avenue
Approved Site Plan or Subdivision case #:
Wake County Property Identification Number(s) (PIN) for each parcel to which these guidelines will apply:

Wayne, Robby

From: Staley, Marion <Marion.Staley@raleighnc.gov>
Sent: Wednesday, February 22, 2023 3:47 PM
To: Wayne, Robby; Fink, Christine
Cc: SWS Code Compliance DL Purifoy, Jermont
Subject: RE: [EXT] RE: Raleigh Planning Review: SWS Approval Letter - 5280 New Bern Ave Site (2.21.2023 SWS Update)

Thank you. This just keeps all stakeholders clear in the event something changes post construction and demonstrates no backing.

This Plan is approved to move forward in the planning process. Make sure you transpose a copy of the Will Serve Letter on the cover sheet of the plan.

From: Wayne, Robby <RWayne@LaBellaPC.com>
Sent: Wednesday, February 22, 2023 1:02:14 PM
To: Staley, Marion <Marion.Staley@raleighnc.gov>; Fink, Christine <cfink@LaBellaPC.com>
Cc: SWS Code Compliance DL <SWSCodeCompliance@raleighnc.gov>; Purifoy, Jermont <jermont.purifoy@raleighnc.gov>

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you verify that the attachment and content are safe. If you believe this email is suspicious, please click the "Phish Alert" link in the banner to report this message.

From: Staley, Marion <Marion.Staley@raleighnc.gov>
Sent: Wednesday, February 22, 2023 2:03 PM
To: Fink, Christine <cfink@LaBellaPC.com>
Cc: Wayne, Robby <RWayne@LaBellaPC.com>; SWS Code Compliance DL <SWSCodeCompliance@raleighnc.gov>; Purifoy, Jermont <jermont.purifoy@raleighnc.gov>

From: Staley, Marion <Marion.Staley@raleighnc.gov>
Sent: Wednesday, February 22, 2023 2:03 PM
To: Fink, Christine <cfink@LaBellaPC.com>
Cc: Wayne, Robby <RWayne@LaBellaPC.com>; SWS Code Compliance DL <SWSCodeCompliance@raleighnc.gov>; Purifoy, Jermont <jermont.purifoy@raleighnc.gov>



1-17-2023

Re: LATINO COMMUNITY CREDIT UNION
Attn: ETNA CLARO

This is a letter of support for trash and recycling services for your new facility being planned for 5280 NEW BERN AVE RALEIGH NC 27610. We have reviewed the plans and have found that REPUBLIC SERVICES will be able to safely perform all needed services.

If the event that the project design changes, this letter is void and a new letter must be issued. Additionally, this letter is non-transferable.

We want to visit the site during the initial phases of construction to ensure that the site will continue to be safe for us to provide services.

We look forward to providing waste and recycling services at your new property once it has been completed and ready to be serviced.

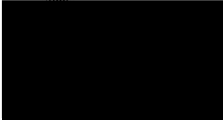
Please feel free to contact me directly 919-519-9739 or email txols@republicservices.com

Best Regards,

Timothy M Volk
Account Executive: Raleigh Metro
Republic Services
919-519-9739

NCDOT ENCROACHMENT AGREEMENT UNDER REVIEW

LaBella Powered by partnership
400 S. Tryon Street, Suite 1300
Charlotte, NC 28285
704-376-6423
labellapp.com NC License # C-0430



LCCU - NEW BERN AVE BRANCH
5280 NEW BERN AVENUE
RALEIGH, NC 27601

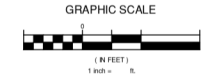


Table with 3 columns: NO, DATE, DESCRIPTION. Row 1: 1, 2-24-23, REVISE PER ASR COMMENTS #1. Row 2: 2, 5-9-23, REVISE PER ASR COMMENTS #2.

Table with 2 columns: PROJECT NUMBER, DRAWING NUMBER. PROJECT NUMBER: 2220725. DRAWING NUMBER: FINAL DESIGN.

ADDITIONAL FORMS

DRAWING NUMBER

CO.1



ROY COOPER
DIRECTOR

J. ERIC BOYETTE
SECRETARY

February 17, 2023

Cade Larson
LaBella Associates
400 S. Tryon Street, Suite 1300
Charlotte, North Carolina 28285

Subject: Planting Permit for the New Bern Avenue Branch

To whom it may concern:

Please be advised that the planting plans have been conditionally approved for the New Bern Avenue Branch located at 5280 New Bern Avenue in Wake County, North Carolina.

This letter is issuing the Planting Permit per North Carolina Department of Transportation policy.

The following standard provisions are made part of this agreement:

- 1. The permittee shall maintain a clear sight distance for vehicles utilizing driveway connections.
2. The Division of Highways will not be responsible for any damage to the plants, which may be done by third parties.
3. Maintenance of the plantings will be the responsibility of the permittee. Should the plants not be maintained in a sufficient manner the plants could be subject to removal.
4. Plants to be free clear quality of their species.
5. A copy of this permit must be on the worksite at all times while the work is being performed.
6. All trees and plants shall be pruned and maintained in such a manner as to not encroach upon the travel way.

LaBella Services
150 SOUTH STREET
BETHLEHEM, NC 27804

Telephone: 704.974.4700
Website: www.labella.com

Division of
Transportation
222 SOUTH STREET
RALEIGH, NC 27601

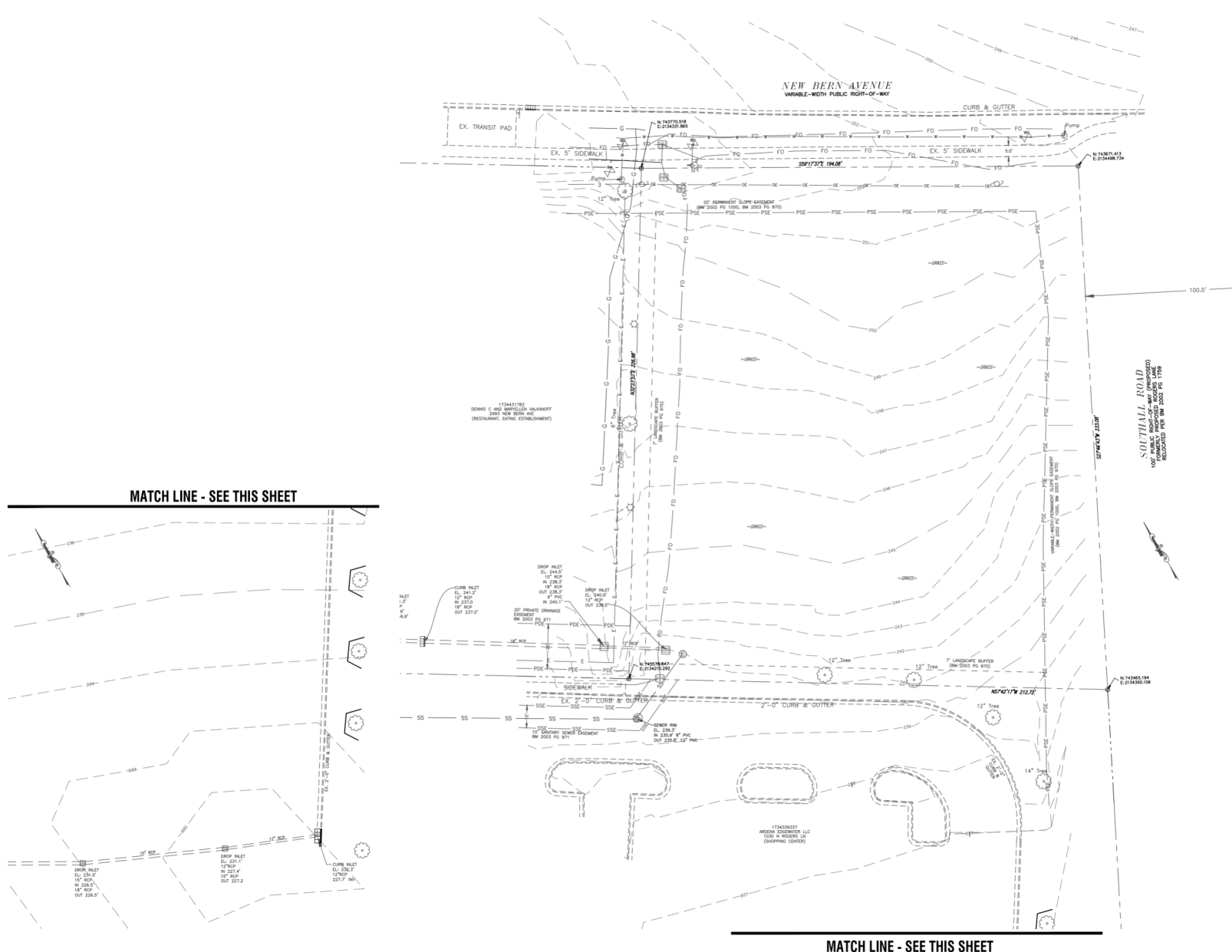
- 7. The traveling public shall be warned of construction with complete and proper signing and traffic control devices in accordance with the current Manual on Uniform Traffic Devices (MUTCD). No work shall be performed in the Right of Way unless this requirement is satisfied. NCDOT reserves the right to require a written traffic control plan for encroachment operations.
8. NCDOT does not guarantee the Right of Way on this road, nor will it be responsible for any claim for damages brought by any property owner by reason of the installation.
9. Two-way traffic shall be maintained at all times.
10. No lane of traffic shall be closed or restricted between the hours of 6:00 AM - 9:00 AM and 4:00 PM - 7:00 PM Monday - Friday. Any violation of these hours will result in termination of the encroachment agreement.
11. NCDOT reserves the right to further limit, restrict, or suspend operations within the Right of Way if, in the opinion of NCDOT, safety or traffic conditions warrant such action.
12. The Traffic Services Supervisor shall be notified at (919) 477-2914 in Durham prior to beginning work on the Right of Way if there are existing NCDOT signs, traffic signals, or signal equipment in or near the proposed work zone. Costs to relocate, replace, or repair NCDOT signs, signals, or associated equipment shall be the responsibility of the Encroacher.
13. The applicant will be required to notify the Roadside Environmental Technician, Mark Comer at (919) 816-9299 prior to beginning and after completion of work.
14. It shall be the responsibility of the Encroacher to determine the location of other utilities within the encroachment area. The Encroacher shall be responsible for notifying other utility owners and providing protection and safeguards to prevent damage or interruption to existing facilities and to maintain accessibility to existing utilities.
15. At the end of each working day, equipment shall be parked a minimum of 30 feet from the edge of any travel lane and be barricaded in order not to have any equipment obstruction within the clear recovery area.
16. The applicant is responsible for identifying project impacts to waters of the United States (wetlands, intermittent streams, perennial streams and ponds) located within the NCDOT right-of-way. The discharge of dredged or fill material into waters of the United States requires authorization from the United States Army Corps of Engineers (USACE) and certification from the North Carolina Division of Water Quality (NCDWQ). The applicant is required to obtain pertinent permits or certification from these regulatory agencies if construction of the project impacts waters of the United States within the NCDOT right-of-way. Additional information can be obtained by contacting the USACE or NCDWQ.
17. The applicant is responsible for complying with the Neuse and Tar-Pamlico Riparian Buffer Rule as regulated by the NCDWQ. The rule regulates activity within a 50-foot buffer along perennial streams, intermittent streams and ponds. Additional information can be obtained by contacting the NCDWQ.

- 18. The applicant is responsible for avoiding impacts to federally protected species during project construction. Bird eagle, Midland's snake, smooth cone-flower, dwarf wedge-mussel, harlequin red-necked woodpecker and tar-spiny mussel are federally protected species that have been identified within NCDOT right-of-way in Durham, Person, Granville, Wake, Franklin, Vance, and Warren counties. Additional information can be obtained by contacting the North Carolina Natural Heritage Program or the United States Fish and Wildlife Service.
19. In the event that plants require relocation or removal for highway construction, reconstruction, maintenance or safety, such removal or relocation will be done immediately by the permittee (municipality or private group/individual) upon notification by the Division of Highways, entirely at the expense of the permittee.
If you should need further assistance, please contact Corey Sudderth by phone at 919-317-4700 or by email at csudderth@ncdot.gov.

Sincerely,
Eric Jones, PE
Division Engineer

RECEIVED
Cc: Corey Sudderth, Roadside Environmental Engineer
FILE

PROJECT NO. 2220
 10/2023/21/001/NEW BERN AVE WALKWAY/CONCRETE/PAVEMENT/ETC/EXISTING CONDITIONS.DWG



MATCH LINE - SEE THIS SHEET

MATCH LINE - SEE THIS SHEET



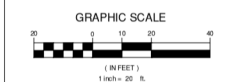
400 S. Tryon Street, Suite 1300
 Charlotte, NC 28285
 704-376-6423
 labellapc.com NC License # C-0430



© 2022 LaBella Associates



LCCU - NEW BERN AVE BRANCH
 5280 NEW BERN AVENUE
 RALEIGH, NC 27601



NO.	DATE	DESCRIPTION

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

EXISTING CONDITIONS

DRAWING NUMBER:

C1.0



© 2022 LaBella Associates



**LCCU - NEW BERN AVE
BRANCH**
5280 NEW BERN AVENUE
RALEIGH, NC 27601



GRAPHIC SCALE



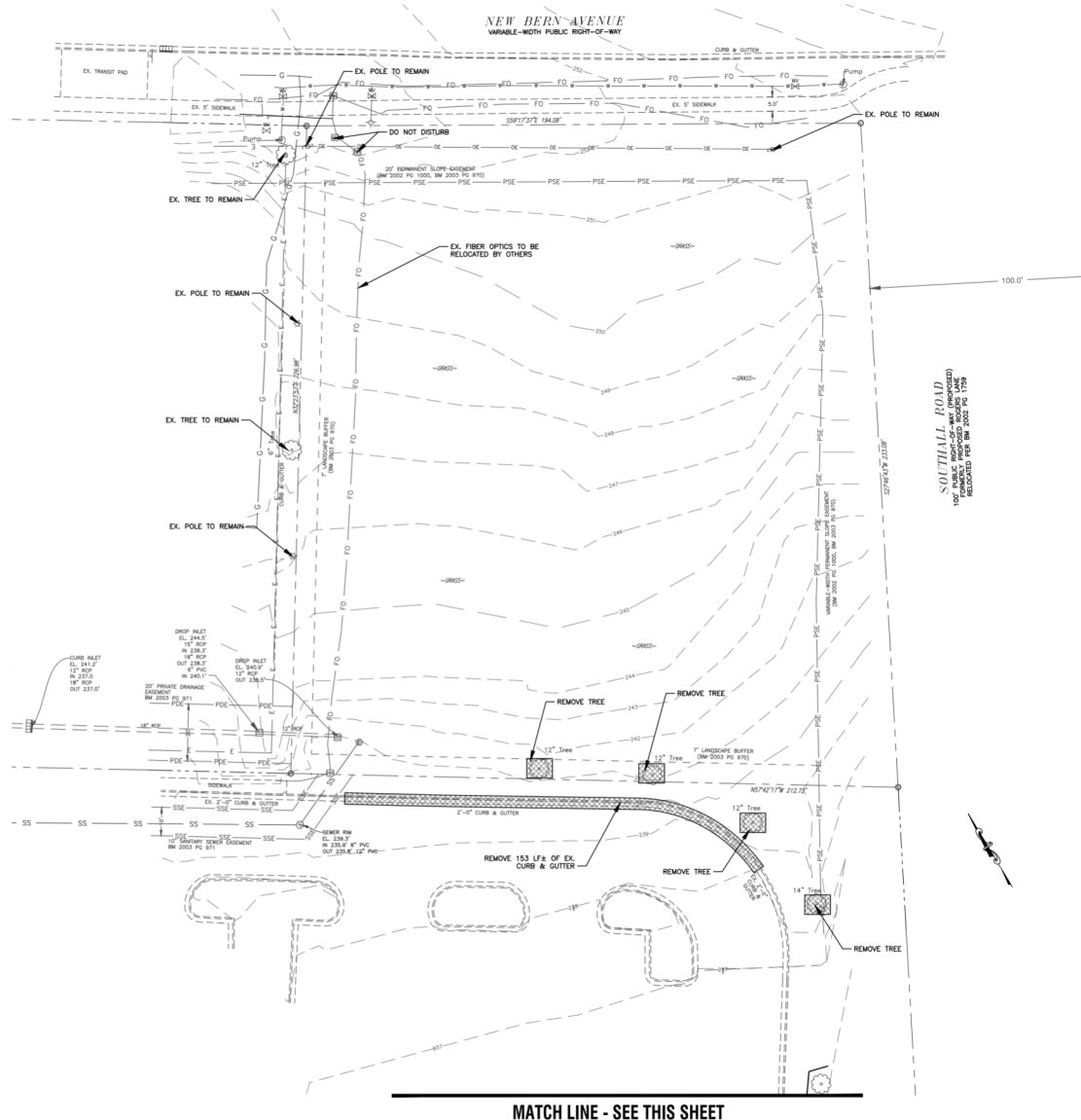
NO.	DATE:	DESCRIPTION:
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

**DEMOLITION
PLAN**

DRAWING NUMBER:

C1.2



MATCH LINE - SEE THIS SHEET

MATCH LINE - SEE THIS SHEET

PROJECT NO. 2220725
 DATE: 9/22/23
 DRAWN BY: TCL
 CHECKED BY: REW
 PROJECT: LCCU - NEW BERN AVE BRANCH



LCCU - NEW BERN AVE
BRANCH
5280 NEW BERN AVENUE
RALEIGH, NC 27601



NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2
3	11-17-23	REVISE PER ASR COMMENTS #3

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	11/17/23

DRAWING NAME:

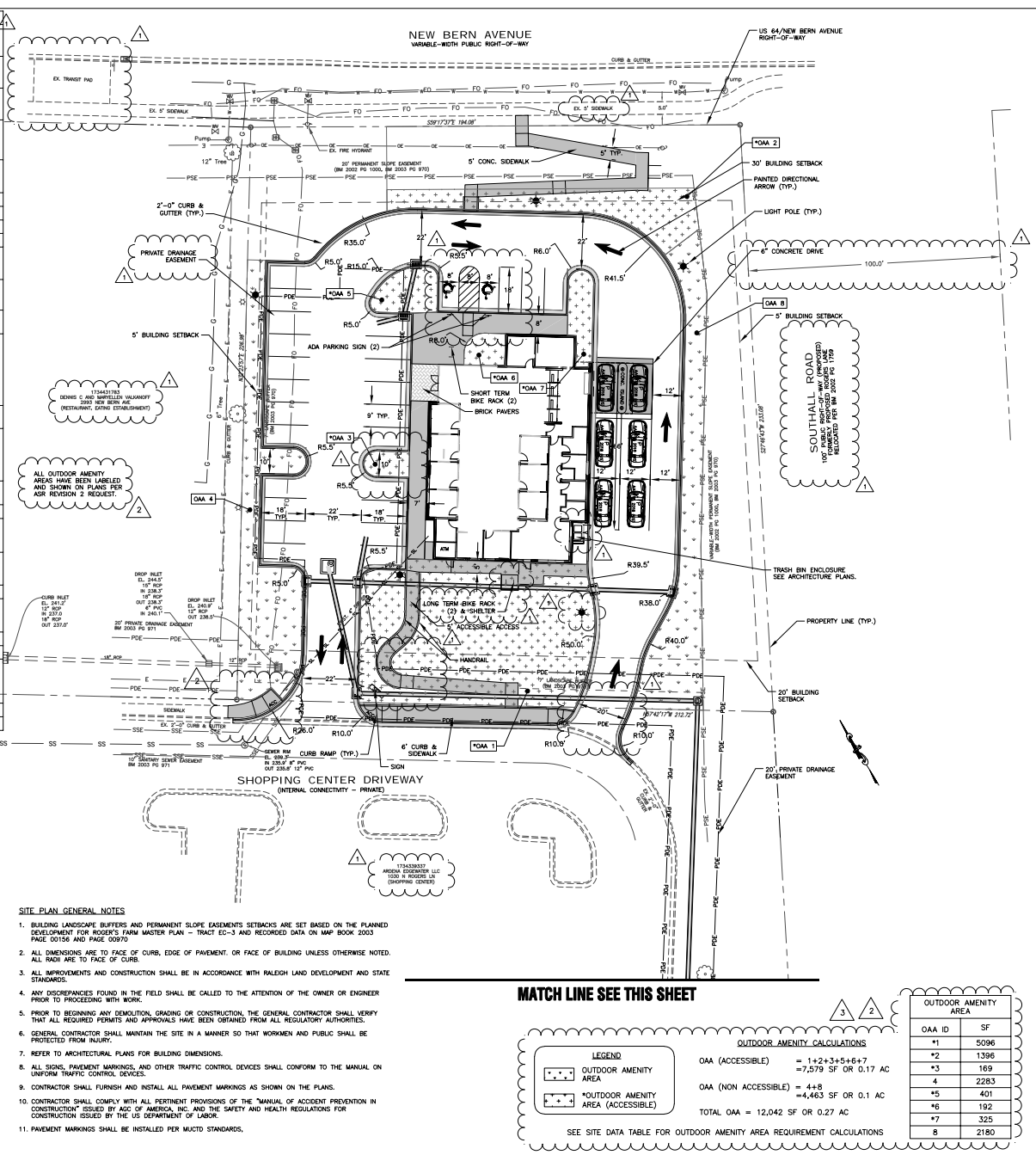
SITE PLAN

DRAWING NUMBER:

C2.0

SITE DEVELOPMENT TABLE																						
OWNER:	LATINO COMMUNITY CREDIT UNION 100 WEST MORGAN STREET DURHAM, NC, 27701																					
OWNER (SECONDARY PROPERTY):	ARJENO EDGEWATER, LLC PO BOX 13470 RICHMOND, VA 23225-8470																					
DEVELOPER:	LATINO COMMUNITY CREDIT UNION 100 WEST MORGAN STREET DURHAM, NC, 27701																					
DESIGNER:	LABELLA ASSOCIATES 400 S. TRYON STREET, SUITE 1300 CHARLOTTE, NC, 28285 704-376-6423																					
ZONING:	PLANNED DEVELOPMENT - ROGER'S FARM - MASTERPLAN CASE# MP-1-96 (2-45-96) BASE DISTRICT: COMMERCIAL MIXED USE (CX DISTRICT)																					
LOT 2 EXISTING USE:	VACANT																					
LOT 2 PROPOSED USE:	OFFICE (BANK)																					
SITE ADDRESS:	5280 NEW BERN AVENUE																					
PARCEL IDENTIFICATION NUMBER (PIN):	1734423643																					
PARKING REQUIREMENTS:	1 SPACE PER 300 SF GROSS FLOOR AREA NOTE: 1 PARKING SPACE PER 300 SF GROSS FLOOR AREA PER MP-1-96/2-45-96																					
PARKING PROVIDED:	25 REGULAR SPACES 2 HANDICAP ACCESSIBLE SPACES 27 TOTAL SPACES																					
BICYCLE PARKING:	SHORT TERM 4 SPACES REQUIRED/PROVIDED LONG TERM 4 SPACES REQUIRED/PROVIDED																					
BUILDING SETBACKS:	<table border="1"> <thead> <tr> <th>REQUIRED PER UDO-CX DISTRICT</th> <th>PROVIDED</th> </tr> </thead> <tbody> <tr> <td>FRONT</td> <td>5 FEET</td> </tr> <tr> <td>SIDE LOT LINE (EAST)</td> <td>0 OR 6 FEET</td> </tr> <tr> <td>SIDE LOT LINE (WEST)</td> <td>0 OR 6 FEET</td> </tr> <tr> <td>REAR ALLEY (SOUTH)</td> <td>5 FEET</td> </tr> </tbody> </table>	REQUIRED PER UDO-CX DISTRICT	PROVIDED	FRONT	5 FEET	SIDE LOT LINE (EAST)	0 OR 6 FEET	SIDE LOT LINE (WEST)	0 OR 6 FEET	REAR ALLEY (SOUTH)	5 FEET	<table border="1"> <thead> <tr> <th>REQUIRED PER UDO-CX DISTRICT</th> <th>PROVIDED</th> </tr> </thead> <tbody> <tr> <td>FRONT</td> <td>5 FEET</td> </tr> <tr> <td>SIDE LOT LINE (EAST)</td> <td>0 OR 3 FT.</td> </tr> <tr> <td>SIDE LOT LINE (WEST)</td> <td>0 OR 3 FT.</td> </tr> <tr> <td>REAR ALLEY (SOUTH)</td> <td>5 FT.</td> </tr> </tbody> </table>	REQUIRED PER UDO-CX DISTRICT	PROVIDED	FRONT	5 FEET	SIDE LOT LINE (EAST)	0 OR 3 FT.	SIDE LOT LINE (WEST)	0 OR 3 FT.	REAR ALLEY (SOUTH)	5 FT.
REQUIRED PER UDO-CX DISTRICT	PROVIDED																					
FRONT	5 FEET																					
SIDE LOT LINE (EAST)	0 OR 6 FEET																					
SIDE LOT LINE (WEST)	0 OR 6 FEET																					
REAR ALLEY (SOUTH)	5 FEET																					
REQUIRED PER UDO-CX DISTRICT	PROVIDED																					
FRONT	5 FEET																					
SIDE LOT LINE (EAST)	0 OR 3 FT.																					
SIDE LOT LINE (WEST)	0 OR 3 FT.																					
REAR ALLEY (SOUTH)	5 FT.																					
AGGREGATE FRONT YARD AND REAR YARD	FRONT YARD - 30 FEET, AGGREGATE FRONT/REAR YARDS - 50 FEET SIDE YARD - 5 FEET, REAR YARD - 20 FEET																					
PARKING SETBACKS:	<table border="1"> <thead> <tr> <th>REQUIRED PER UDO-CX DISTRICT</th> <th>PROVIDED</th> </tr> </thead> <tbody> <tr> <td>FRONT</td> <td>10 FT.</td> </tr> <tr> <td>SIDE LOT LINE (EAST)</td> <td>0 OR 3 FT.</td> </tr> <tr> <td>SIDE LOT LINE (WEST)</td> <td>0 OR 3 FT.</td> </tr> <tr> <td>REAR ALLEY (SOUTH)</td> <td>5 FT.</td> </tr> </tbody> </table>	REQUIRED PER UDO-CX DISTRICT	PROVIDED	FRONT	10 FT.	SIDE LOT LINE (EAST)	0 OR 3 FT.	SIDE LOT LINE (WEST)	0 OR 3 FT.	REAR ALLEY (SOUTH)	5 FT.	<table border="1"> <thead> <tr> <th>REQUIRED PER UDO-CX DISTRICT</th> <th>PROVIDED</th> </tr> </thead> <tbody> <tr> <td>FRONT</td> <td>10 FT.</td> </tr> <tr> <td>SIDE LOT LINE (EAST)</td> <td>0 OR 3 FT.</td> </tr> <tr> <td>SIDE LOT LINE (WEST)</td> <td>0 OR 3 FT.</td> </tr> <tr> <td>REAR ALLEY (SOUTH)</td> <td>5 FT.</td> </tr> </tbody> </table>	REQUIRED PER UDO-CX DISTRICT	PROVIDED	FRONT	10 FT.	SIDE LOT LINE (EAST)	0 OR 3 FT.	SIDE LOT LINE (WEST)	0 OR 3 FT.	REAR ALLEY (SOUTH)	5 FT.
REQUIRED PER UDO-CX DISTRICT	PROVIDED																					
FRONT	10 FT.																					
SIDE LOT LINE (EAST)	0 OR 3 FT.																					
SIDE LOT LINE (WEST)	0 OR 3 FT.																					
REAR ALLEY (SOUTH)	5 FT.																					
REQUIRED PER UDO-CX DISTRICT	PROVIDED																					
FRONT	10 FT.																					
SIDE LOT LINE (EAST)	0 OR 3 FT.																					
SIDE LOT LINE (WEST)	0 OR 3 FT.																					
REAR ALLEY (SOUTH)	5 FT.																					
LOT 2 AREA (EXISTING):	46,751 SF / 1.07 AC																					
OFFSITE IMPROVEMENT AREA:	6,889 SF / 0.16 AC																					
DISTURBED AREA:	48,972 SF / 1.12 AC																					
LOT 2 EXISTING IMPERVIOUS AREA:	0 SF / 0.00 AC																					
LOT 2 PROPOSED IMPERVIOUS AREA:	25,776 SF / 0.59 AC																					
OFFSITE PROPOSED IMPERVIOUS AREA:	1,459 SF / 0.03 AC																					
PROPOSED BUILDING AREA:	5021 SF - 1 STORY - 29'-3" HEIGHT (40' MAX PLUS 1" PER ADDITIONAL SETBACK PER MP-1-96 AND SC 10-2035.D.3)																					
PROPOSED GROUND STORY TRANSPARENCY:	<table border="1"> <thead> <tr> <th>REQUIRED PER UDO-CX DISTRICT</th> <th>PROVIDED</th> </tr> </thead> <tbody> <tr> <td>WALL AREA (64'-4" x 12") = 772 SF</td> <td>255 SF</td> </tr> <tr> <td>TRANSPARENCY (33% OF WALL AREA):</td> <td>127.5 SF</td> </tr> <tr> <td>TRANSPARENCY BETWEEN 3'-8" (50% OF 33%):</td> <td>133 SF</td> </tr> </tbody> </table>	REQUIRED PER UDO-CX DISTRICT	PROVIDED	WALL AREA (64'-4" x 12") = 772 SF	255 SF	TRANSPARENCY (33% OF WALL AREA):	127.5 SF	TRANSPARENCY BETWEEN 3'-8" (50% OF 33%):	133 SF	<table border="1"> <thead> <tr> <th>REQUIRED PER UDO-CX DISTRICT</th> <th>PROVIDED</th> </tr> </thead> <tbody> <tr> <td>WALL AREA (64'-4" x 12") = 772 SF</td> <td>287 SF</td> </tr> <tr> <td>TRANSPARENCY (33% OF WALL AREA):</td> <td>127.5 SF</td> </tr> <tr> <td>TRANSPARENCY BETWEEN 3'-8" (50% OF 33%):</td> <td>133 SF</td> </tr> </tbody> </table>	REQUIRED PER UDO-CX DISTRICT	PROVIDED	WALL AREA (64'-4" x 12") = 772 SF	287 SF	TRANSPARENCY (33% OF WALL AREA):	127.5 SF	TRANSPARENCY BETWEEN 3'-8" (50% OF 33%):	133 SF				
REQUIRED PER UDO-CX DISTRICT	PROVIDED																					
WALL AREA (64'-4" x 12") = 772 SF	255 SF																					
TRANSPARENCY (33% OF WALL AREA):	127.5 SF																					
TRANSPARENCY BETWEEN 3'-8" (50% OF 33%):	133 SF																					
REQUIRED PER UDO-CX DISTRICT	PROVIDED																					
WALL AREA (64'-4" x 12") = 772 SF	287 SF																					
TRANSPARENCY (33% OF WALL AREA):	127.5 SF																					
TRANSPARENCY BETWEEN 3'-8" (50% OF 33%):	133 SF																					
WATER:	CITY OF RALEIGH PUBLIC UTILITIES																					
SEWER:	CITY OF RALEIGH PUBLIC UTILITIES																					
OUTDOOR AMENITY AREA LOT 2 (OPEN OR AMENITY SPACE PER UDO) - CX DISTRICT:	OAA INCLUDING 1' WALK = 12,042 SF / 0.27 AC OAA PROVIDED = 25% (12,042 SF / 0.27 AC) OAA ACCESSIBLE REQUIRED = 50% OF OAA (6,021 SF / 0.14 AC) OAA ACCESSIBLE PROVIDED = 63% OF OAA (7,579 SF / 0.17 AC)																					
WATERSHED:	NEUSE RIVER																					
FLOOD DATA:	N/A - FIRM 3720173400K																					

MATCH LINE SEE THIS SHEET



SITE PLAN GENERAL NOTES

- BUILDING LANDSCAPE BUFFERS AND PERMANENT SLOPE EXEMPTIONS SETBACKS ARE SET BASED ON THE PLANNED DEVELOPMENT FOR ROGER'S FARM MASTER PLAN - TRACT EC-3 AND RECORDED DATA ON MAP BOOK 2003 PAGE 02156 AND PAGE 0097.
- ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR FACE OF BUILDING UNLESS OTHERWISE NOTED. ALL RADII ARE TO FACE OF CURB.
- ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH RALEIGH LAND DEVELOPMENT AND STATE STANDARDS.
- ANY DISCREPANCIES FOUND IN THE FIELD SHALL BE CALLED TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO PROCEEDING WITH WORK.
- PRIOR TO BEGINNING ANY DEMOLITION, GRADING OR CONSTRUCTION, THE GENERAL CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES.
- GENERAL CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY.
- REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
- CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION ISSUED BY THE US DEPARTMENT OF LABOR.
- PAVEMENT MARKINGS SHALL BE INSTALLED PER MUTCD STANDARDS.

MATCH LINE SEE THIS SHEET

LEGEND

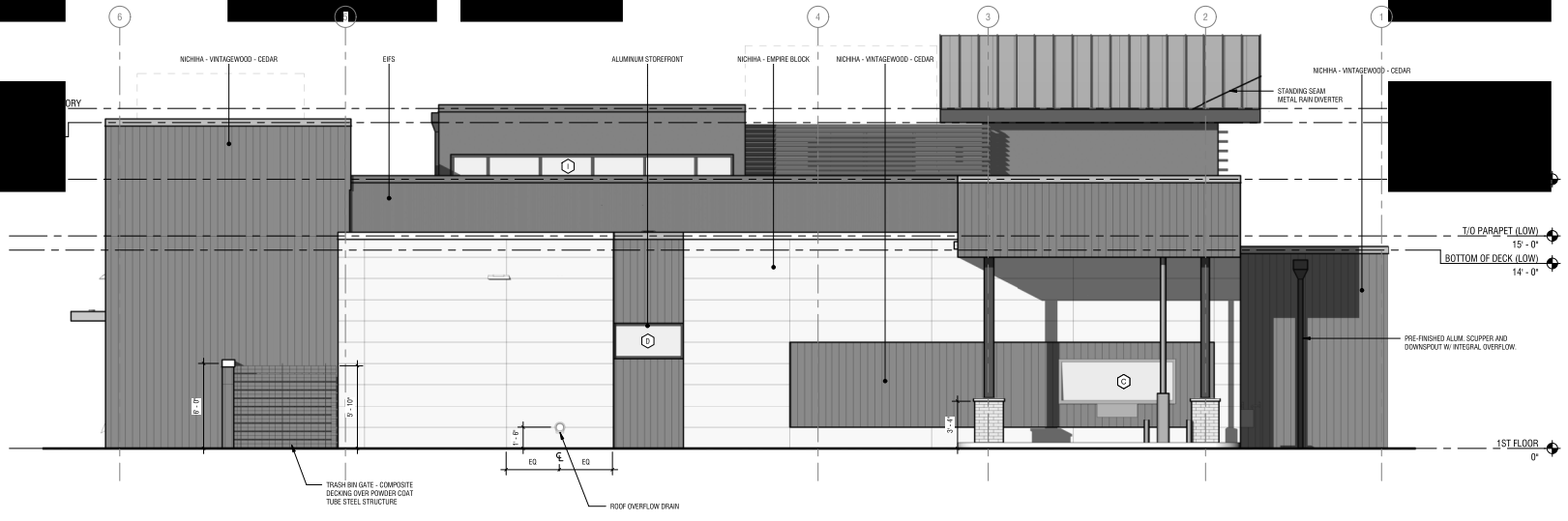
- OUTDOOR AMENITY AREA
- *OUTDOOR AMENITY AREA (ACCESSIBLE)

OUTDOOR AMENITY CALCULATIONS

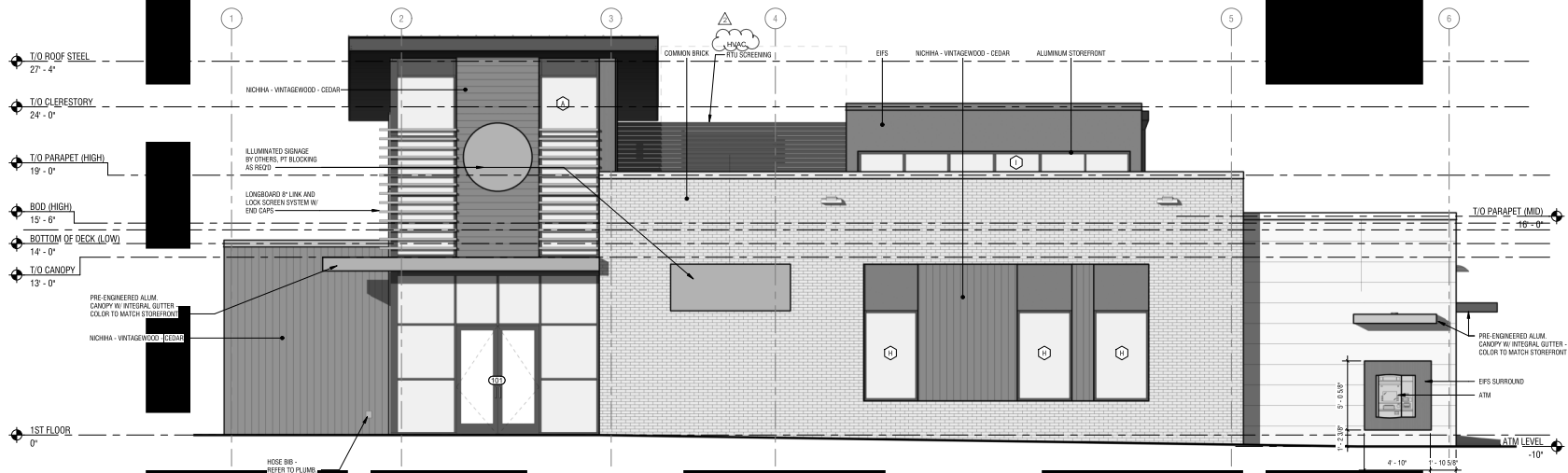
OAA (ACCESSIBLE) = 1+2+3+5+6+7 = 7,579 SF OR 0.17 AC
OAA (NON ACCESSIBLE) = 4+8 = 4,463 SF OR 0.1 AC
TOTAL OAA = 12,042 SF OR 0.27 AC

SEE SITE DATA TABLE FOR OUTDOOR AMENITY AREA REQUIREMENT CALCULATIONS

OAA ID	SF
*1	5096
*2	1396
*3	169
4	2283
*5	401
*6	192
*7	325
8	2180



2 EAST ELEVATION (RIGHT)
 A201 SCALE: 1/4" = 1'-0"



1 WEST ELEVATION
 A201 SCALE: 1/4" = 1'-0"

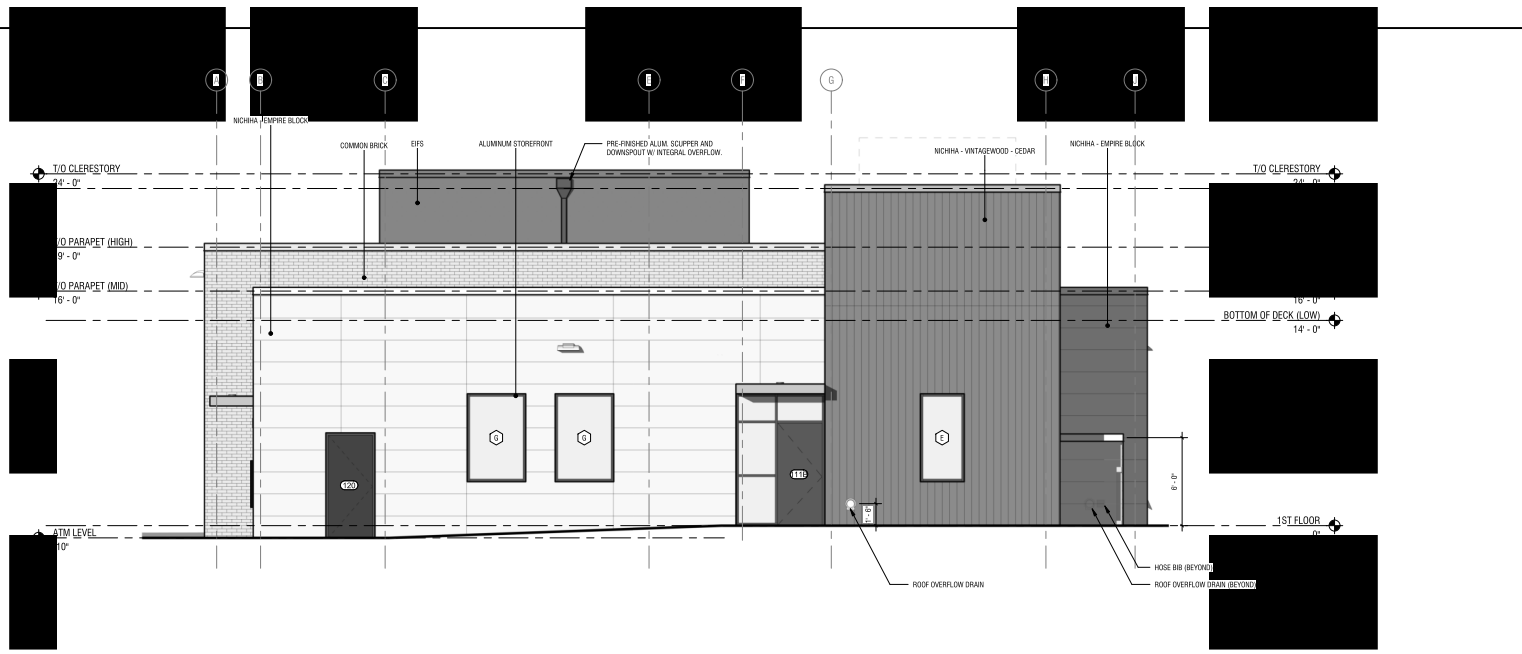
704-376-6423
 labelapp.com

11-20-2022
 © 2022 LIBRIS ASSOCIATES



NO:	
Revision:	
PROJECT NO:	220723
DRAWN BY:	BAW
REVIEWED BY:	TAH
ISSUED FOR:	
DATE:	
DRAWING NO:	

EXTERIOR ELEVATIONS



2 SOUTH ELEVATION (REAR)
SCALE: 1/4" = 1'-0"

TRANSPARENCY CALCULATION

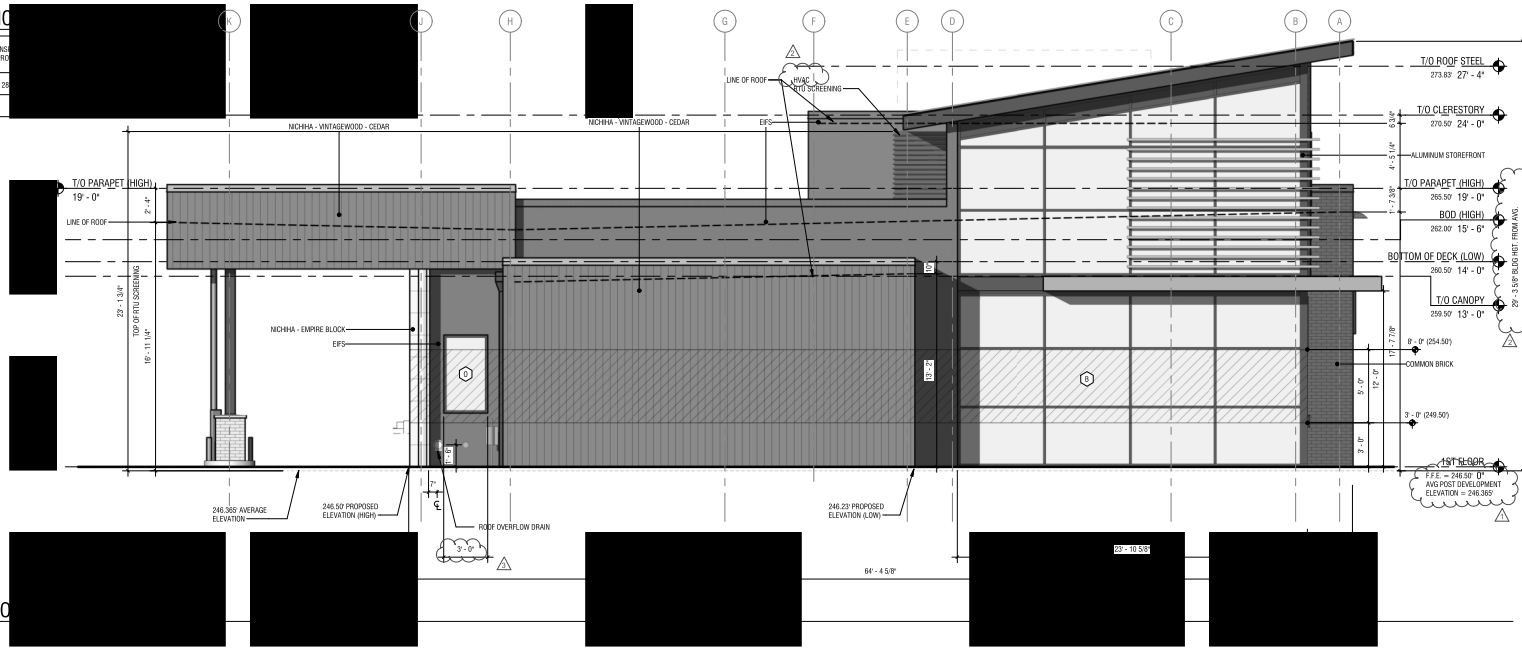
SF OF WALL	TRANSPARENCY REQUIRED (33%)	TRANS. PROVIDED
64'-4" x 12' = 772 SF	772 x .33 = 255 SF	255 SF

Transparency - Raleigh, NC UD Code Section 15.9.B

1. The minimum percentage of windows and doors that must cover a ground story facade is measured between 0 and 12 feet above the surface of the finished ground floor and below grade portions of the facade. A minimum transparency must be located between 3 and 8 feet above ground floor.

2. For general buildings where an Urban Frontage is 75% of the street-facing, street-level window pane area on the ground story side for a depth of at least 10 feet, the facade shall not be made opaque by non-operable windows, awnings, overhangs, blinds or shades within the conditioned space.

4. Glass shall be considered transparent where it has a transparency higher than 50% and external reflectance of less than 15%. Glass on upper stories may have any level of transparency and external reflectance.



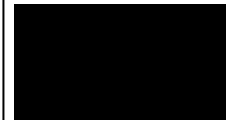
3 NORTH ELEVATION (FRONT)
SCALE: 1/4" = 1'-0"

704-376-6423
labelapp.com



DRAWN BY: BAW
REVIEWED BY: GGA

EXTERIOR ELEVATIONS



01/26/2021

© 2022 LaBella Associates



LCCU - NEW BERN
5280 NEW BERN AVENUE RALEIGH, NC 27610

3	11/17/2023	ASR 3
NO.	DATE	DESCRIPTION

Revisions

S.E.D. NUMBER: 110011

PROJECT NUMBER: 2220723

DRAWN BY: AGR

REVIEWED BY: JMH

ISSUED FOR: OWNER REVIEW

DATE: 07.29.2022

DRAWING NAME:

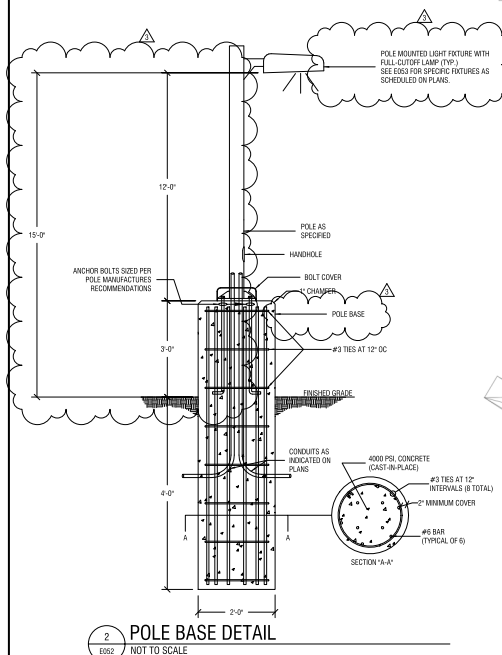
PHOTOMETRIC SITE PLAN

DRAWING NUMBER:

E052

Statistics				
Statistic	Description	Avg	Max	Min
Channel Size		3.16	25.9	0.06
Channel Spacing		3.16	17.0	0.06

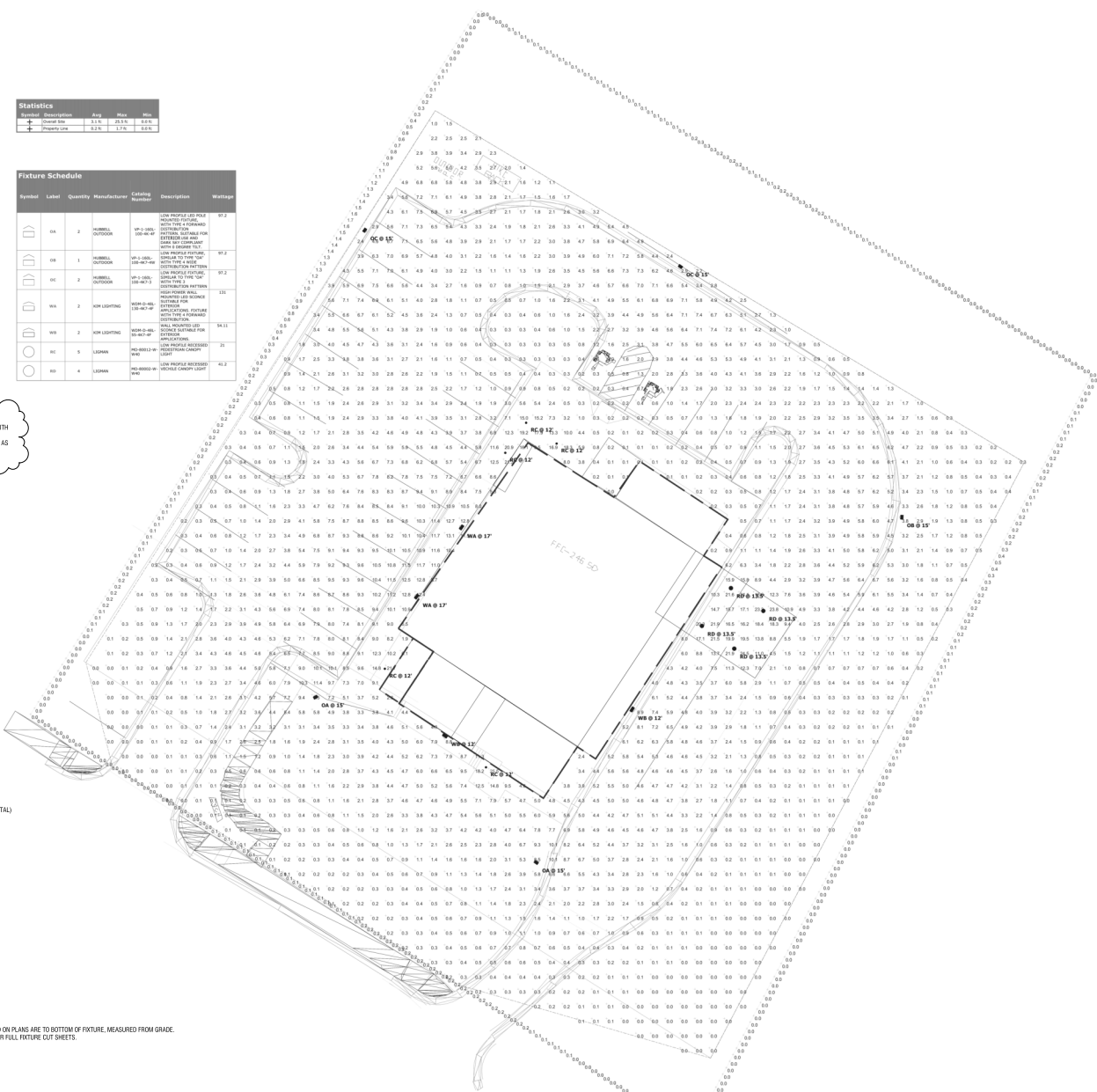
Fixture Schedule						
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Wattage
☐	OH	2	HUBBELL	HP-1-1000-100-40-07	LOW PROFILE LED BOLL LIGHT FIXTURE FOR FORWARD MOUNTING ON POLE WITH EXTENSION AND W/FLX	87.2
☐	OH	1	HUBBELL	HP-1-1000-100-40-07	LOW PROFILE LED BOLL LIGHT FIXTURE FOR FORWARD MOUNTING ON POLE WITH EXTENSION AND W/FLX	87.2
☐	OH	2	HUBBELL	HP-1-1000-100-40-07	LOW PROFILE LED BOLL LIGHT FIXTURE FOR FORWARD MOUNTING ON POLE WITH EXTENSION AND W/FLX	87.2
☐	WA	3	NON LIGHTING	HP-1-1000-100-40-07	NON LIGHTING BOLL LIGHT FIXTURE FOR FORWARD MOUNTING ON POLE WITH EXTENSION AND W/FLX	138
☐	WA	3	NON LIGHTING	HP-1-1000-100-40-07	NON LIGHTING BOLL LIGHT FIXTURE FOR FORWARD MOUNTING ON POLE WITH EXTENSION AND W/FLX	138
○	HC	5	LOMAN	HD-8000-100-40-07	LOW PROFILE LED BOLL LIGHT FIXTURE FOR FORWARD MOUNTING ON POLE WITH EXTENSION AND W/FLX	21
○	HC	4	LOMAN	HD-8000-100-40-07	LOW PROFILE LED BOLL LIGHT FIXTURE FOR FORWARD MOUNTING ON POLE WITH EXTENSION AND W/FLX	41.2



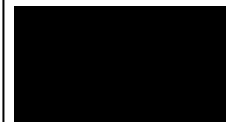
2 POLE BASE DETAIL
NOT TO SCALE

NOTES:
1. HEIGHTS INDICATED ON PLANS ARE TO BOTTOM OF FIXTURE, MEASURED FROM GRADE.
2. SEE SHEET E053 FOR FULL FIXTURE CUT SHEETS.

1 PHOTOMETRIC SITE PLAN
E052 1" = 15' - 0"



11/17/2023 12:02:52 PM



01.26.2021

© 2022 LaBella Associates



LCU - NEW BERN
5260 NEW BERN AVENUE RALEIGH, NC 27610

3	11/17/2023	ASR 3
NO.	DATE	DESCRIPTION
Revisions		
S.E.D. NUMBER: 110011		
PROJECT NUMBER: 2220723		
DRAWN BY: ZCJ		
REVIEWED BY: AGR/JMH		
ISSUED FOR: OWNER REVIEW		
DATE: 07.29.2022		
DRAWING NAME:		

FIXTURE CUT SHEETS

DRAWING NUMBER:



LIGMAN
MONDOVA 4 (MO-80012)

Outdoor Ceiling Luminaires (MONDOVA)

Product description
Flat Name

Optic

Product colour

Luminaire Structure

- Die-cast aluminum housing
- Pre-treated before powder coating ensuring high corrosion resistance
- Two cable entries for through wiring
- Stainless steel fasteners in grade 304 with zinc flake coating (ZFC)
- Double aluminum rubber gaskets
- Clear tempered glass
- High-efficiency optical reflector
- Integral control gear

Electrical

- 120V single-phase, 120 through 277V with a 20% tolerance. Down to Underwriters Laboratories listed.
- High voltage configurations, 347/480. Down to 60V depending on fixture. For each level, see the applicable UL listing.
- Remote dimmer. Down to Underwriters Laboratories listed.
- "Thermal shield" construction. The thermal shield provides protection for the luminaires in the event of LED failure and electrical components.
- Drivers have a greater than 2:1 power factor with their 20% tolerance, operation, and are suitable for operation at 40°C to 60°C ambient temperature.
- Luminaires shall be capable of operating at 100% brightness at 40°C ambient temperature. The housing can be removed for service by sliding the assembly in the shell for easier mounting or to the high flow air mounting and dismounting by using angle.
- Driver assembly shall be mounted to a general purpose wire with quick disconnects in the mounting cavity.

Specifications

SPECIFICATIONS	
Item	Value
Luminaire Range	1,590 - 46,000
Weight Range	34 - 130
Energy Range (lm/W)	81 - 143
Required Life (hours)	175,000/50,000
Weight	20 lbs/9.07 kg

(Specifications continued on page 3)

Notes

- See notes for optic and mounting and design details.
- See note for mounting and design details.
- See note for mounting and design details.

BEACON
VIPER Area/Site

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____

FEATURES

- Low profile, LED enabled luminaire with a variety ofIES distributions for lighting applications with an adjustable, wide, controllable, and narrow lighting beam.
- Featuring two different beam technologies, Beam and Micro Strike Optics, which enable the beam distribution patterns for specific or new construction.
- Rated for high vibration applications including bridges and overpasses. All sizes are listed as IEC.
- Control options including photo control, occupancy sensing, XM Lighting Control™, LightGrid™ and 0-10V with manual control.
- New customizable luminaire output feature allows for the wattage and lumen output to be customized to the facility to meet relevant qualification requirements (e.g. water proofed interchangeability provides additional flexibility after the fixture has shipped).

MICROSTRIKE **STRIKE**

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____

CONTROL TECHNOLOGY

STOCK Q'S TO

SPECIFICATIONS

SIZES	
Item	Value
Beam Diameter	10" - 24"
Beam Length	10" - 24"
Beam Weight	10" - 24"
Beam Power	10" - 24"
Beam Voltage	10" - 24"
Beam Current	10" - 24"
Beam Resistance	10" - 24"
Beam Impedance	10" - 24"
Beam Capacitance	10" - 24"
Beam Inductance	10" - 24"
Beam Conductance	10" - 24"
Beam Susceptance	10" - 24"
Beam Admittance	10" - 24"
Beam Impedance	10" - 24"
Beam Capacitance	10" - 24"
Beam Inductance	10" - 24"
Beam Conductance	10" - 24"
Beam Susceptance	10" - 24"
Beam Admittance	10" - 24"

CONSTRUCTION

- Die-cast aluminum housing with integral heat sink. The housing is pre-treated before powder coating ensuring high corrosion resistance.
- Mounting arm is stainless steel and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

INSTALLATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

OPERATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

MAINTENANCE

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

REVISIONS

NO.	DATE	DESCRIPTION
1	11/17/2023	Initial Issue

NOTES

- See notes for optic and mounting and design details.
- See note for mounting and design details.
- See note for mounting and design details.

CONTACT

Current
current@ligman.com
1-800-368-3688
www.ligman.com

LAUREL LIGHTING

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____

WDM
WALL DIRECTOR

Wall Director

RELATED PRODUCTS

318 Control Gear

FEATURES

- 1/2" x 1/2" in. die-cast
- High performance optics deliver up to 16,000 lumens
- 100% clear maximum optical transmission
- Programmable occupancy sensor dimming
- 100% clear maximum optical transmission
- LED drivers per unit
- UL94V-0, UL94V-0, UL94V-0, UL94V-0

CONTROL TECHNOLOGY

STOCK Q'S TO

SPECIFICATIONS

SIZES	
Item	Value
Beam Diameter	10" - 24"
Beam Length	10" - 24"
Beam Weight	10" - 24"
Beam Power	10" - 24"
Beam Voltage	10" - 24"
Beam Current	10" - 24"
Beam Resistance	10" - 24"
Beam Impedance	10" - 24"
Beam Capacitance	10" - 24"
Beam Inductance	10" - 24"
Beam Conductance	10" - 24"
Beam Susceptance	10" - 24"
Beam Admittance	10" - 24"

CONSTRUCTION

- Die-cast aluminum housing with integral heat sink. The housing is pre-treated before powder coating ensuring high corrosion resistance.
- Mounting arm is stainless steel and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

INSTALLATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

OPERATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

MAINTENANCE

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

REVISIONS

NO.	DATE	DESCRIPTION
1	11/17/2023	Initial Issue

NOTES

- See notes for optic and mounting and design details.
- See note for mounting and design details.
- See note for mounting and design details.

CONTACT

Current
current@ligman.com
1-800-368-3688
www.ligman.com

LAUREL LIGHTING

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____

RD
RD FIXTURE CUT SHEET

RD

FEATURES

- 1/2" x 1/2" in. die-cast
- High performance optics deliver up to 16,000 lumens
- 100% clear maximum optical transmission
- Programmable occupancy sensor dimming
- 100% clear maximum optical transmission
- LED drivers per unit
- UL94V-0, UL94V-0, UL94V-0, UL94V-0

CONTROL TECHNOLOGY

STOCK Q'S TO

SPECIFICATIONS

SIZES	
Item	Value
Beam Diameter	10" - 24"
Beam Length	10" - 24"
Beam Weight	10" - 24"
Beam Power	10" - 24"
Beam Voltage	10" - 24"
Beam Current	10" - 24"
Beam Resistance	10" - 24"
Beam Impedance	10" - 24"
Beam Capacitance	10" - 24"
Beam Inductance	10" - 24"
Beam Conductance	10" - 24"
Beam Susceptance	10" - 24"
Beam Admittance	10" - 24"

CONSTRUCTION

- Die-cast aluminum housing with integral heat sink. The housing is pre-treated before powder coating ensuring high corrosion resistance.
- Mounting arm is stainless steel and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

INSTALLATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

OPERATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

MAINTENANCE

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

REVISIONS

NO.	DATE	DESCRIPTION
1	11/17/2023	Initial Issue

NOTES

- See notes for optic and mounting and design details.
- See note for mounting and design details.
- See note for mounting and design details.

CONTACT

Current
current@ligman.com
1-800-368-3688
www.ligman.com

LAUREL LIGHTING

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____

RD
RD FIXTURE CUT SHEET

RD

FEATURES

- 1/2" x 1/2" in. die-cast
- High performance optics deliver up to 16,000 lumens
- 100% clear maximum optical transmission
- Programmable occupancy sensor dimming
- 100% clear maximum optical transmission
- LED drivers per unit
- UL94V-0, UL94V-0, UL94V-0, UL94V-0

CONTROL TECHNOLOGY

STOCK Q'S TO

SPECIFICATIONS

SIZES	
Item	Value
Beam Diameter	10" - 24"
Beam Length	10" - 24"
Beam Weight	10" - 24"
Beam Power	10" - 24"
Beam Voltage	10" - 24"
Beam Current	10" - 24"
Beam Resistance	10" - 24"
Beam Impedance	10" - 24"
Beam Capacitance	10" - 24"
Beam Inductance	10" - 24"
Beam Conductance	10" - 24"
Beam Susceptance	10" - 24"
Beam Admittance	10" - 24"

CONSTRUCTION

- Die-cast aluminum housing with integral heat sink. The housing is pre-treated before powder coating ensuring high corrosion resistance.
- Mounting arm is stainless steel and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

INSTALLATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

OPERATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

MAINTENANCE

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

REVISIONS

NO.	DATE	DESCRIPTION
1	11/17/2023	Initial Issue

NOTES

- See notes for optic and mounting and design details.
- See note for mounting and design details.
- See note for mounting and design details.

CONTACT

Current
current@ligman.com
1-800-368-3688
www.ligman.com

LAUREL LIGHTING

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____

RD
RD FIXTURE CUT SHEET

RD

FEATURES

- 1/2" x 1/2" in. die-cast
- High performance optics deliver up to 16,000 lumens
- 100% clear maximum optical transmission
- Programmable occupancy sensor dimming
- 100% clear maximum optical transmission
- LED drivers per unit
- UL94V-0, UL94V-0, UL94V-0, UL94V-0

CONTROL TECHNOLOGY

STOCK Q'S TO

SPECIFICATIONS

SIZES	
Item	Value
Beam Diameter	10" - 24"
Beam Length	10" - 24"
Beam Weight	10" - 24"
Beam Power	10" - 24"
Beam Voltage	10" - 24"
Beam Current	10" - 24"
Beam Resistance	10" - 24"
Beam Impedance	10" - 24"
Beam Capacitance	10" - 24"
Beam Inductance	10" - 24"
Beam Conductance	10" - 24"
Beam Susceptance	10" - 24"
Beam Admittance	10" - 24"

CONSTRUCTION

- Die-cast aluminum housing with integral heat sink. The housing is pre-treated before powder coating ensuring high corrosion resistance.
- Mounting arm is stainless steel and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

INSTALLATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

OPERATION

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

MAINTENANCE

- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.

REVISIONS

NO.	DATE	DESCRIPTION
1	11/17/2023	Initial Issue

NOTES

- See notes for optic and mounting and design details.
- See note for mounting and design details.
- See note for mounting and design details.

CONTACT

Current
current@ligman.com
1-800-368-3688
www.ligman.com

LAUREL LIGHTING

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____

RD
RD FIXTURE CUT SHEET

RD

FEATURES

- 1/2" x 1/2" in. die-cast
- High performance optics deliver up to 16,000 lumens
- 100% clear maximum optical transmission
- Programmable occupancy sensor dimming
- 100% clear maximum optical transmission
- LED drivers per unit
- UL94V-0, UL94V-0, UL94V-0, UL94V-0

CONTROL TECHNOLOGY

STOCK Q'S TO

SPECIFICATIONS

SIZES	
Item	Value
Beam Diameter	10" - 24"
Beam Length	10" - 24"
Beam Weight	10" - 24"
Beam Power	10" - 24"
Beam Voltage	10" - 24"
Beam Current	10" - 24"
Beam Resistance	10" - 24"
Beam Impedance	10" - 24"
Beam Capacitance	10" - 24"
Beam Inductance	10" - 24"
Beam Conductance	10" - 24"
Beam Susceptance	10" - 24"
Beam Admittance	10" - 24"

CONSTRUCTION

- Die-cast aluminum housing with integral heat sink. The housing is pre-treated before powder coating ensuring high corrosion resistance.
- Mounting arm is stainless steel and features a 1/2" hole for mounting to a 1/2" hole in the wall. The mounting arm is adjustable and can be rotated to the desired position.
- Mounting arm is pre-treated to ensure corrosion resistance



**LCCU - NEW BERN AVE
BRANCH**
5280 NEW BERN AVENUE
RALEIGH, NC 27601



GRAPHIC SCALE



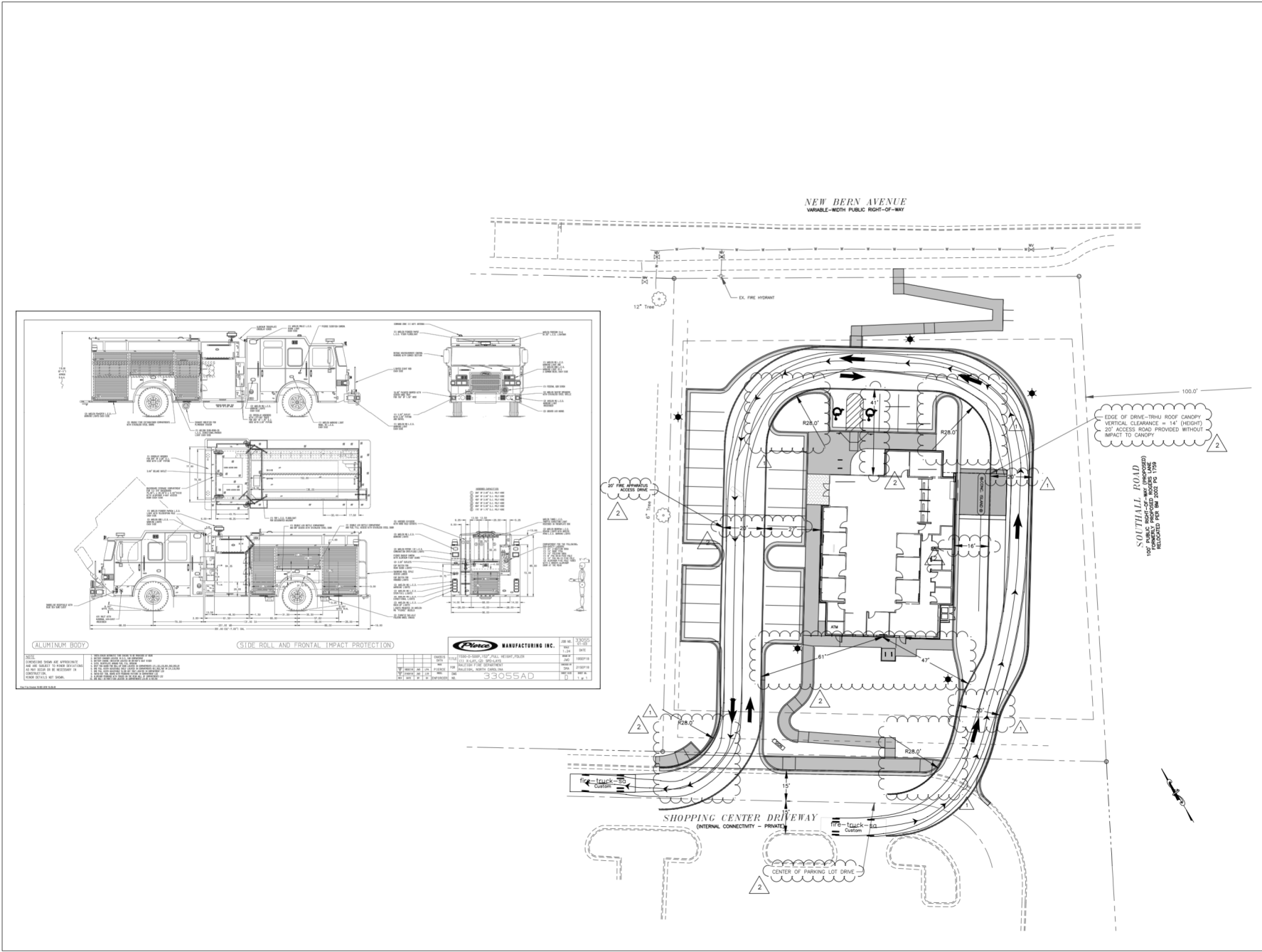
NO.	DATE:	DESCRIPTION:
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

**FIRE TRUCK TURNING
MOVEMENT**

DRAWING NUMBER:

C2.1



PROJECT: LCCU NEW BERN AVE BRANCH 09/22/23
DRAWING: C2.1 NEW BERN AVE BRANCH 09/22/23
DRAWING: C2.1 NEW BERN AVE BRANCH 09/22/23

NO.	DATE:	DESCRIPTION:
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

**SITE PLAN
DETAILS**

DRAWING NUMBER:

C2.3

IN-GROUND MOUNT

SURFACE MOUNT

BIKE RACK INSTALLATION:
SURFACE MOUNT - WHEN INSTALLED ON CONCRETE SURFACE, USE 3/8" ANCHORS TO PLATE MOUNT. SHIM AS NECESSARY TO ENSURE VERTICAL PLACEMENT.
IN-GROUND MOUNT - WHEN INSTALLED ON PAVERS OR OTHER NON-STABLE SURFACES, EMBED INTO BASE. CORE HOLES NO LESS THAN 2" IN DIAMETER AND 12" DEEP.

STANDARD BIKE RACK

**CITY OF RALEIGH
STANDARD DETAIL**

REVISION	DATE	BY	NOT TO SCALE

BIKE RACK PLACEMENT

REVISION	DATE	BY	NOT TO SCALE

B-20.03

PEDESTRIAN CLEARANCE
min 12"

BUILDING OR WALL

SIDEWALK

BIKE RACK

STREET

**CITY OF RALEIGH
STANDARD DETAIL**

REVISION	DATE	BY	NOT TO SCALE

BIKE RACK PLACEMENT

REVISION	DATE	BY	NOT TO SCALE

B-20.01

SEGMENTAL GRAVITY RETAINING WALL

REINFORCED CONCRETE GRAVITY RETAINING WALL

GENERAL NOTES:
1. ALL RETAINING WALLS SHALL BE DESIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER.

**CITY OF RALEIGH
STANDARD DETAIL**

REVISION	DATE	BY	NOT TO SCALE

RETAINING WALL

REVISION	DATE	BY	NOT TO SCALE

TT-09

1/8" RADIUS (TYP.)

JOINT FILLER
NOTE: MAINTAIN 6" MAX. BETWEEN EXPANSION JOINTS AT ALL RIGHT ANGLES.

**FRONT ELEVATION
TRANSVERSE EXPANSION JOINT**

1. 24" CURB & GUTTER

2. 24" VALLEY TYPE GUTTER

4" COMPACTED A.B.C. UNDER STANDARD CURB & GUTTER MIN.

NO VALLEY CURB SHALL BE USED AT INTERSECTIONS, HYDRANTS, ETC.

**MIDIAN CURB AND GUTTER
SIDE ELEVATION**

**MIDIAN CURB AND GUTTER
(NON-MOUNTABLE)**

SPILL CURB DETAIL

NOTES:
1. 10" MAXIMUM BETWEEN DUMMY JOINTS
12" MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE PAVERS
2. 1/2" EXPANSION JOINT EVERY 50'
3. 3000 PSI CONCRETE MINIMUM 4" SLUMP MAXIMUM
4. LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1028.0 OF NCOT STANDARD & SPECIFICATIONS FOR ROADS AND STRUCTURES.
5. ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER IN ACCORDANCE WITH NCOT ROADWAY STANDARD DETAIL 846.01 THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028.0 OF NCOT STANDARD & SPECIFICATIONS FOR ROADS AND STRUCTURES.
6. REFER TO NCOT DETAIL 846.01 FOR CURB AND GUTTER SUPERELEVATION RATES.

**2'-0" CURB AND GUTTER
& 2'-0" CURB AND GUTTER SPILL**

SECTION 1

SECTION 2

NOTES:
1. BRICK OR CONCRETE PAVERS ALLOWED ONLY 1" UNLESS SPECIAL CONDITIONS.
2. THICKNESS OF BASE MAY VARY WITH SUBGRADE/TRAFFIC CONDITIONS.
3. SLABBY SAND OR SUBGRADE OVER CONCRETE WORK AND SHEEP FOOT CURBS.
4. CONCRETE PAVERS SHOULD CONFORM TO REQUIREMENTS OF ASTM C-1313.
5. BRICK PAVERS SHOULD CONFORM TO REQUIREMENTS OF ASTM C-622.
6. SEE CITY OF RALEIGH CODE SECTION 16.7001 (B) FOR CONDITIONS UNDER WHICH CONCRETE / BRICK PAVERS ARE ALLOWED.

**CITY OF RALEIGH
STANDARD DETAIL**

REVISION	DATE	BY	NOT TO SCALE

**CONCRETE/BRICK PAVES
SIDEWALK DETAIL**

REVISION	DATE	BY	NOT TO SCALE

T-30.03

SECTION VIEW

SIDE VIEW

ALUMINUM POST MOUNT

NOTES:
1. CONTRACTOR TO PROVIDE FULL SHOP DRAWINGS FOR HANDRAIL PRIOR TO INSTALLING.

**CITY OF RALEIGH
STANDARD DETAIL**

REVISION	DATE	BY	NOT TO SCALE

HANDRAIL INSTALLATION

REVISION	DATE	BY	NOT TO SCALE

TT-07

PARKING SPACE

PARKING DRIVEWAY

2' x 9.5'

6" ABC STONE

3' x 9.5'

6" ABC STONE

**PARKING LOT
PAVEMENT TYPICAL
SECTION**

NOT TO SCALE

NOTE:
1. CONCRETE SIDEWALK & CURB TO BE ONE CONTINUOUS POUR.
2. CONSTRUCT SIDEWALK & CURB PER CITY OF RALEIGH STD. T-30.01

CONCRETE SIDEWALK WITH CURB DETAIL

NOT TO SCALE

PARKING SPACE PAVEMENT MARKINGS

NOTES:
1. ALL ACCESSIBLE SIGNS (BY: 87-1, 87-1, AND 50.100) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTH EDGE OF SIGN FACE (PER MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
2. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THESE SIGNS ARE REQUIRED AT LOOKING ZONE AREA, MINIMUM 4" WIDE CONTIGUOUS FRIDGE.
3. VERTICAL CLEARANCE FOR SIGNS MUST BE GREATER THAN 88-INCHES.
4. THIS DETAIL IS TO PROVIDE GENERAL GUIDANCE FOR PARKING LAYOUT AND DESIGN. REFER TO MUTCD, TO NATIONAL TRAFFIC CONTROL DEVICES LIMITED USE AGREEMENT, TO MUTCD, TO NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT AND NC BUILDING CODE FOR ADDITIONAL INFORMATION.

**ACCESSIBLE PARKING AND
SIGNAGE STANDARDS**

NOT TO SCALE

NO.	DATE:	DESCRIPTION:
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER: 2220725

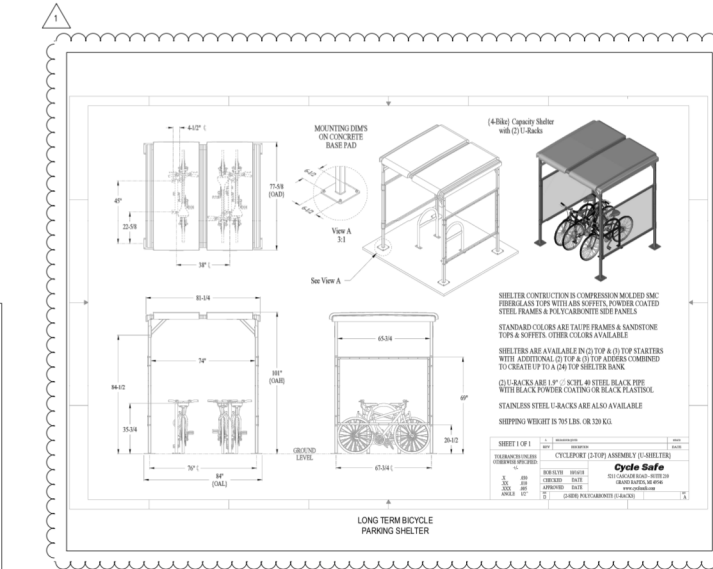
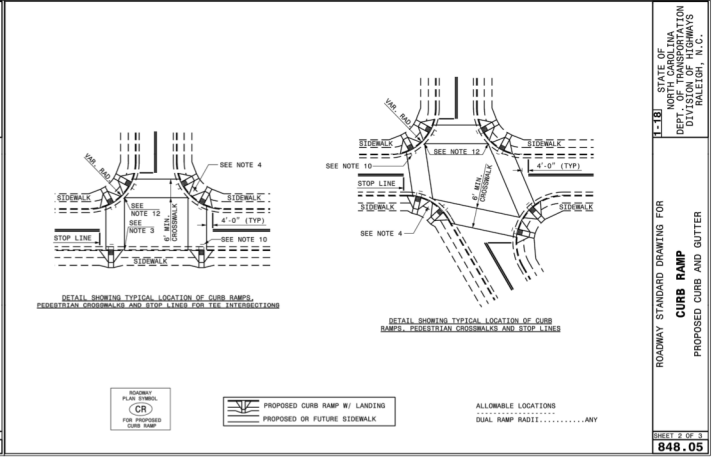
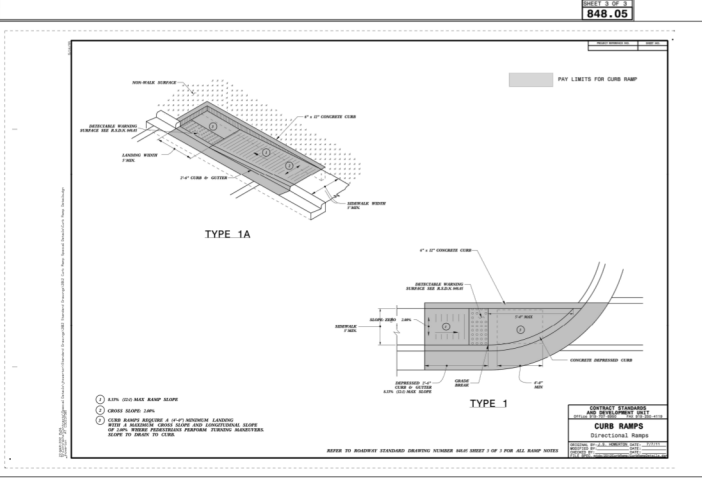
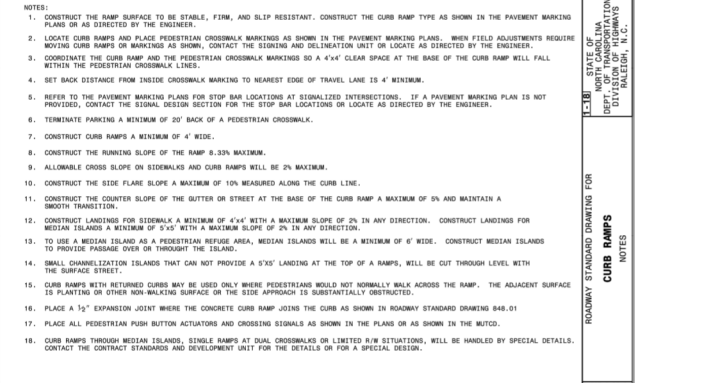
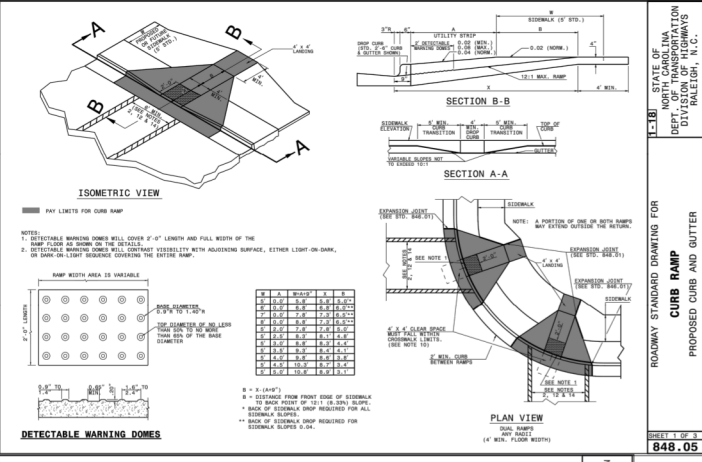
DRAWN BY: TCL

REVIEWED BY: REW

ISSUED FOR: FINAL DESIGN

DATE: 9/22/23

DRAWING NAME:



NARRATIVE

LATINO COMMUNITY CREDIT UNION IS LOCATED IN RALEIGH, NORTH CAROLINA. THE TOTAL DISTURBED ACREAGE FOR THE PROPOSED DEVELOPMENT IS APPROXIMATELY 1.17 ACRES. THE SCOPE OF WORK INCLUDES CLEARING, STRIPPING AND GRADING FOR DRIVEWAYS, PARKING, BUILDING, ASPHALT AND CURB REMOVAL, INFRASTRUCTURE REMOVAL, UTILITY REPLACEMENT/REMOVAL, AND BUILDING PADS. INSTALLATION OF EROSION CONTROL MEASURES, STORM DRAINAGE, CURB AND GUTTER, SIDEWALKS, UTILITIES, AND PAVING.

DOWNSTREAM RECEIVING WATER IS LOWER NEUSE RIVER.

THIS SITE IS NOT IN A FEMA FLOOD ZONE PER FEMA FLOOD MAP COMMUNITY MAP NUMBER 3720173400K DATED 07/19/2022.

PHASING SEQUENCE OF CONSTRUCTION

1. EROSION CONTROL PLAN IS TO BE APPROVED BY THE NC DEQ EROSION CONTROL PROGRAM.
2. SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE CITY ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES.
3. INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS. CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
4. CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
5. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
6. FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
7. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
8. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURE.
9. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N. C. EROSION AND SEDIMENT CONTROL, PLANNING AND DESIGN MANUAL.

PHASE 1

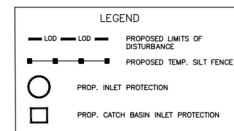
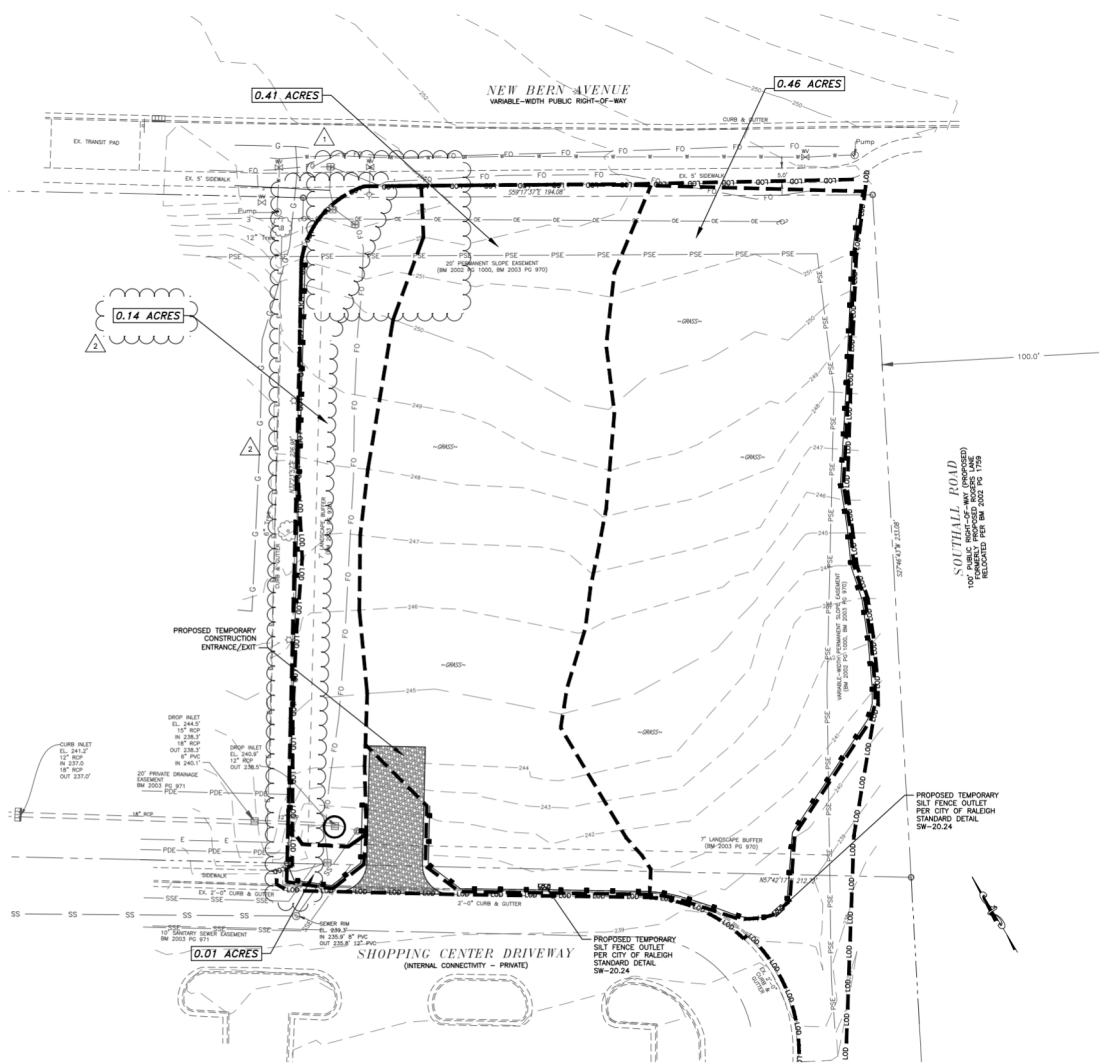
1. CLEAR AND GRADE ONLY AS NECESSARY TO INSTALL EROSION CONTROL MEASURES IN THIS PHASE.
2. INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, & INLET PROTECTION.
3. INSTALL SILT FENCE OUTLET
4. CONTACT EROSION INSPECTOR FOR APPROVAL OF INSTALLED MEASURES PRIOR TO BEGINNING FULL GRADING OPERATIONS.
5. FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.

PHASE 2

1. GRADE SITE TO GRADES SHOWN LEAVING SILT FENCE AND SILT FENCE OUTLET INTACT OR MODIFIED AS SHOWN.
2. MAINTAIN PHASE 1 EROSION CONTROL MEASURES AS NEEDED.
3. CONSTRUCT STORM DRAINAGE, CONCRETE PADS, AND UTILITIES.
4. INSTALL TEMPORARY INLET PROTECTION ON ALL CATCH BASINS AND DROP INLETS (PROPOSED OR EXISTING REMAINING).
5. SEED AND MULCH AREAS AS SPECIFIED.
6. MAINTAIN ALL EROSION CONTROL MEASURES.(IN USE)
7. CALL EROSION CONTROL INSPECTOR FOR APPROVAL TO REMOVE MEASURES AS THE SITE DEVELOPS.

EROSION CONTROL NOTES

1. OFF-SITE CONSTRUCTION OR GRADING REQUIRES A LETTER FROM THE AFFECTED PROPERTY OWNER GRANTING PERMISSION.
 2. ALL "STD." NUMBERS REFER TO THE NCDOT STANDARDS MANUAL.
 3. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
 4. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
 5. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 6. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 7. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.
 8. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING PER NC DEQ.
 9. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN.
 10. ALL AREAS ARE TO BE SEEDED AND MULCHED PER THE TEMPORARY SEEDING SCHEDULE ON SHEET C3.4 AND THE PERMANENT SEEDING SCHEDULE ON SHEET C3.5.
 11. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAYBE REQUIRED BY A REPRESENTATIVE OF CITY OF RALEIGH.
 12. MAXIMUM TEMPORARY GRADED SLOPES ARE 2:1. WHEN STEEPER SLOPES MUST BE USED, PLANS SHALL BE SEALED BY A GEOTECHNICAL ENGINEER FOR SLOPE STABILITY AND FINAL SURFACE STABILIZATION.
 13. ALL FLOW FROM PERMANENT OR TEMPORARY DITCHES SHOULD BE DIRECTED TOWARDS SEDIMENT TRAPS UNTIL SITE IS COMPLETELY STABILIZED.
 14. IF THE NEED ARISES FOR ANY OFF-SITE BORROW OR SPOIL SITE DURING CONSTRUCTION, SUBMIT A REVISION THAT DEMONSTRATES EROSION CONTROL FOR THE AREA AND ACCOUNT FOR THE ADDITIONAL ACREAGE IN THE REVIEW FEE IF AN APPROVED SITE.
 15. WHEN GRASS IS USED FOR STABILIZATION REQUIREMENTS, PERMANENT GROUNDCOVER MUST BE APPLIED OVER 100% OF THE DISTURBED AREA. PERMANENT STABILIZATION IS ACHIEVED WHEN 80% OF THE PERMANENT GROUNDCOVER IS GROWING AND ESTABLISHED WITH NO EVIDENCE OF LARGE BARE PATCHES OR EROSION.
- MAINTENANCE PLAN**
- THE FOLLOWING MAINTENANCE PLAN SHALL BE FOLLOWED UNTIL THE SITE IS COMPLETELY STABILIZED AFTER CONSTRUCTION. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL STRUCTURES.
1. ALL EROSION CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING ANY RAINFALL PRODUCING RUNOFF AND AT LEAST ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY SO THAT ALL EROSION CONTROL MEASURES ARE MAINTAINED AS DESIGNED.
 2. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS IN ORDER TO MAINTAIN A DENSE VEGETATIVE COVER.
 3. SEDIMENT DEPOSITS SHALL BE REMOVED FROM SEDIMENT FENCE AFTER EACH STORM EVENT OR SEDIMENT FENCE SHOULD BE REPLACED. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
 4. SOMMER/SEDIMENT BASINS SHALL BE CLEANED OUT WHEN THE LEVEL REACHES THE MID-DEPTH POINT BELOW THE WEIR ELEVATION. WASHED STONE SHALL BE CLEANED OR REPLACED WHEN THE BASIN NO LONGER DRAINS PROPERLY.
 5. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND WATTLES AFTER EACH STORM EVENT. ALL WATTLES SHALL BE CHECKED, RESTAKED, OR REPLACED IF NECESSARY.

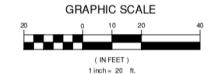


400 S. Tryon Street, Suite 1300
 Charlotte, NC 28285
 704-376-6423
 labellapp.com NC License # C-0430

© 2022 LaBella Associates



LCCU - NEW BERN AVE BRANCH
 5280 NEW BERN AVENUE
 RALEIGH, NC 27601



NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

EROSION CONTROL PLAN PHASE 1

DRAWING NUMBER:

C3.0

DRAWN BY: TCL
 DATE: 9/22/23
 PROJECT: 2220725
 SHEET: C3.0
 TITLE: EROSION CONTROL PLAN PHASE 1



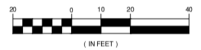
© 2022 LaBella Associates



**LCCU - NEW BERN AVE
BRANCH**
5280 NEW BERN AVENUE
RALEIGH, NC 27601



GRAPHIC SCALE



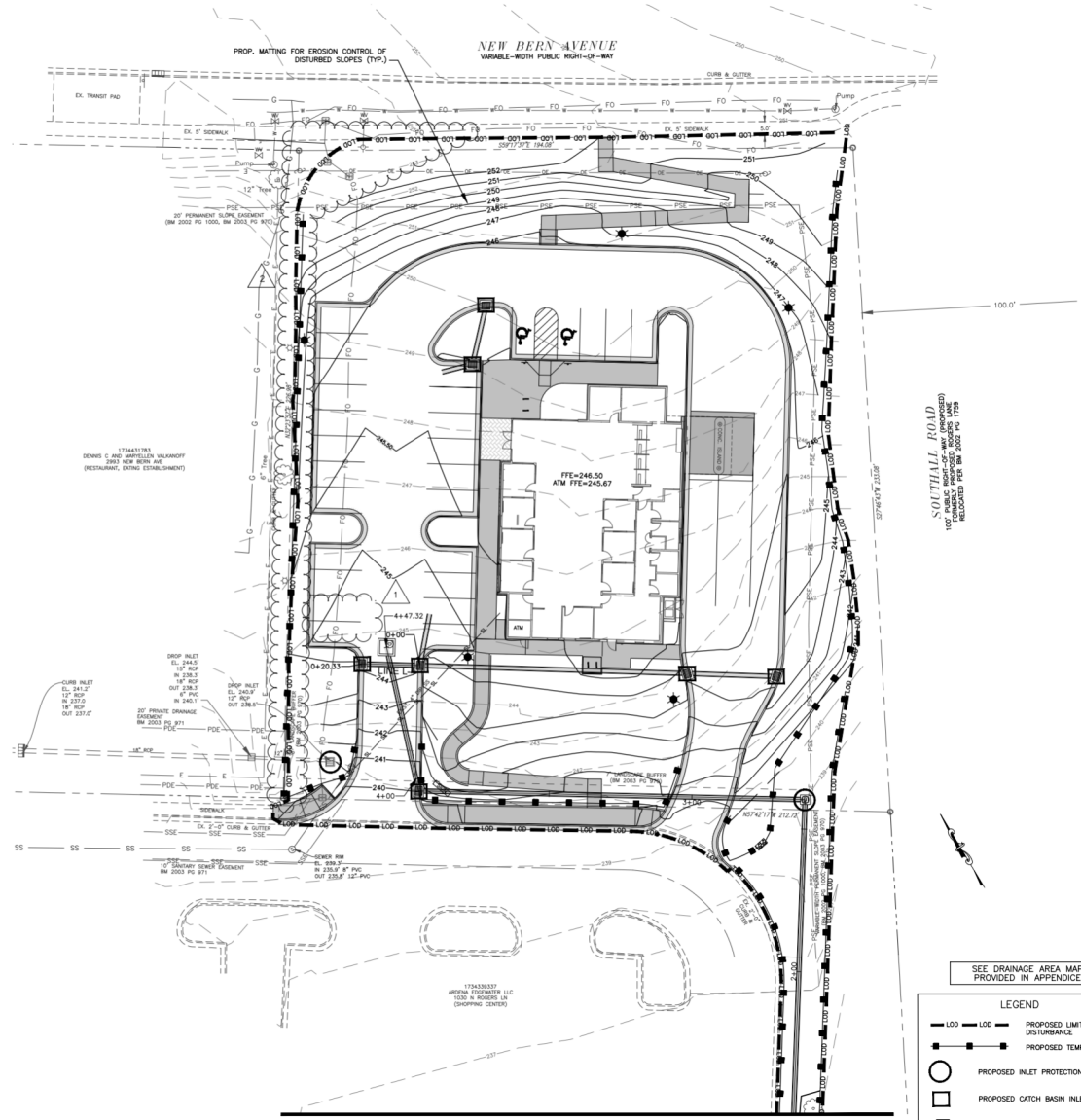
NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

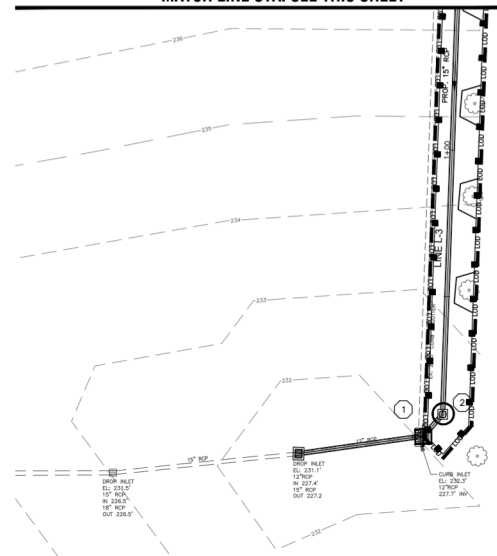
**EROSION CONTROL
PLAN
PHASE 2**

DRAWING NUMBER:

C3.1



MATCH LINE STA. SEE THIS SHEET



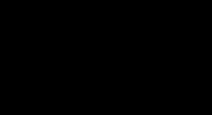
MATCH LINE SEE THIS SHEET

SEE DRAINAGE AREA MAPS PROVIDED IN APPENDICES

LEGEND

- LOC — LOC
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED TEMP. SILT FENCE
- PROPOSED INLET PROTECTION
- PROPOSED CATCH BASIN INLET PROTECTION
- ∩ PROPOSED TREE PROTECTION
- ▨ PROPOSED SILT FENCE OUTLET

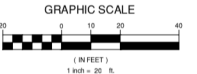
PROJECT: 2220725
 DATE: 9/22/23
 DRAWN BY: TCL
 REVIEWED BY: REW
 ISSUED FOR: FINAL DESIGN
 DATE: 9/22/23
 DRAWING NAME:



© 2022 LaBella Associates



**LCCU - NEW BERN AVE
BRANCH**
5280 NEW BERN AVENUE
RALEIGH, NC 27601



NO.	DATE:	DESCRIPTION:
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

**EROSION CONTROL
NOTES**

DRAWING NUMBER:

C3.2

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

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

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 10)-(c) above	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(j)(7)]	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(i)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION B: RECORDKEEPING

1. E&S Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

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

3. Documentation to be Retained for Three Years

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

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION A: SELF-INSPECTION

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

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item 2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

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

**PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT**

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

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

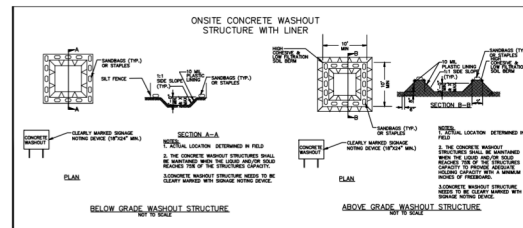
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

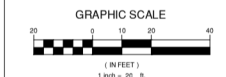
HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

© 2022 LaBella Associates



**LCCU - NEW BERN AVE
BRANCH**
5280 NEW BERN AVENUE
RALEIGH, NC 27601



NO.	DATE:	DESCRIPTION:
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

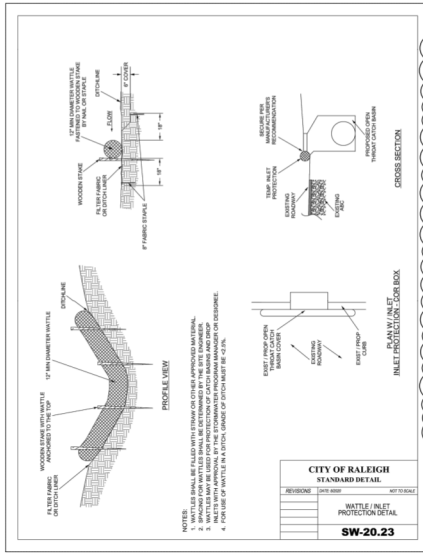
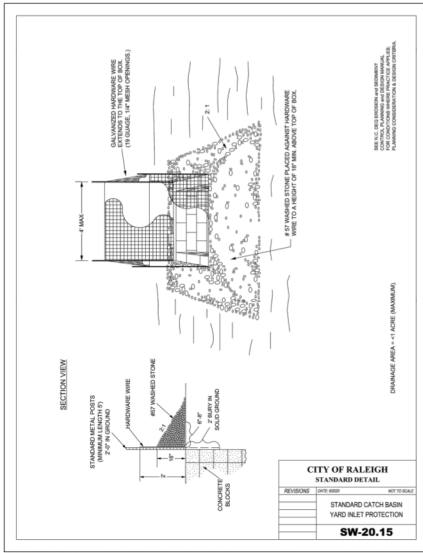
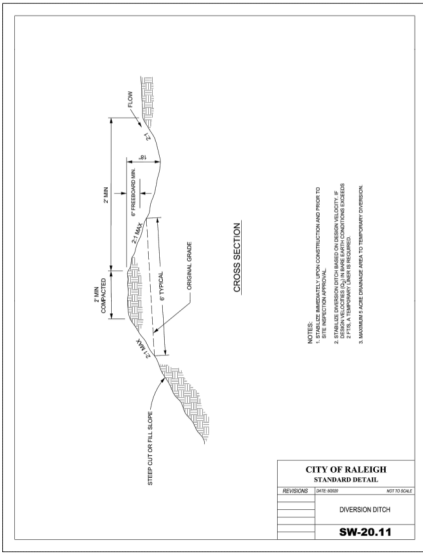
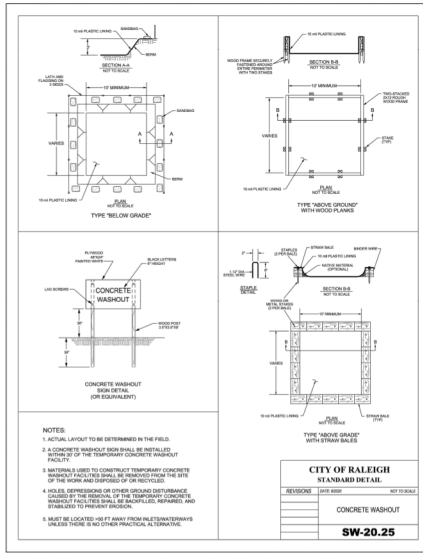
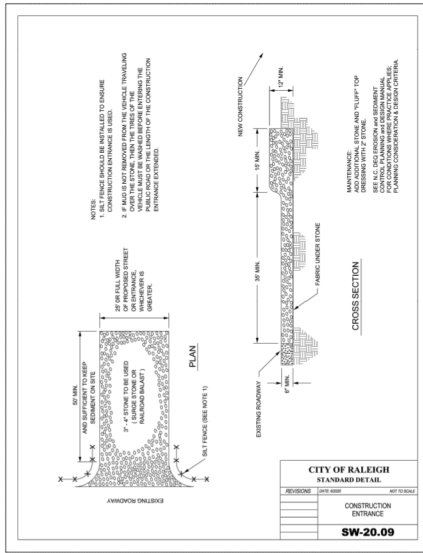
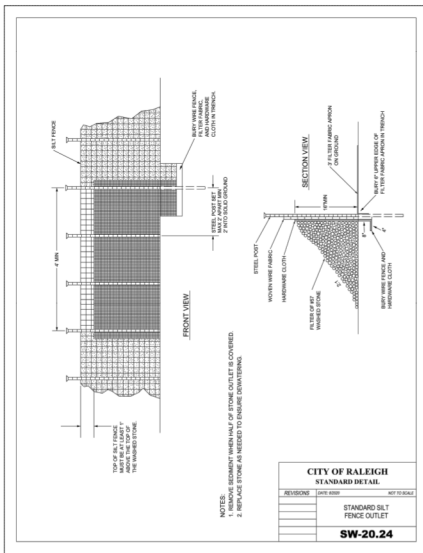
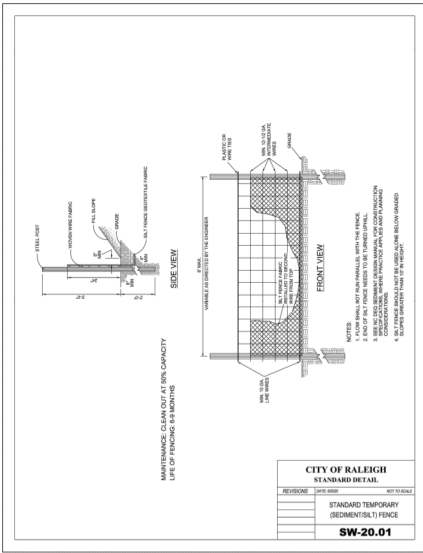
**EROSION CONTROL
NOTES**

DRAWING NUMBER:

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

C3.3



SEEDING SCHEDULE (SEASONAL)

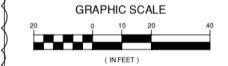
SEEDING MIXTURE	GENTLE SLOPES		STEEP SLOPES	
	80 LBS/ACRE OF TALL FESCUE	100 LBS/ACRE TALL FESCUE 30 LBS/ACRE SERICEA LESPEDEZA (UNSCARIFIED AFTER AUGUST 15) 10 LBS/ACRE KOBE LESPEDEZA	100 LBS/ACRE TALL FESCUE 30 LBS/ACRE SERICEA LESPEDEZA (UNSCARIFIED AFTER AUGUST 15) 10 LBS/ACRE KOBE LESPEDEZA	100 LBS/ACRE TALL FESCUE 30 LBS/ACRE SERICEA LESPEDEZA (UNSCARIFIED AFTER AUGUST 15) 10 LBS/ACRE KOBE LESPEDEZA
SEEDING DATES	FALL: AUGUST 25 – OCTOBER 15 LATE WINTER: FEBRUARY 15 – APRIL 15 TO EXTEND SPRING SEEDING INTO JUNE, ADD 15 LBS/ACRE HALLED BERMUDAGRASS	FALL: AUGUST 25 – OCTOBER 15 LATE WINTER: FEBRUARY 15 – APRIL 15 TO EXTEND SPRING SEEDING INTO JUNE, ADD 15 LBS/ACRE HALLED BERMUDAGRASS	FALL: AUGUST 25 – OCTOBER 15 LATE WINTER: FEBRUARY 15 – APRIL 15 TO EXTEND SPRING SEEDING INTO JUNE, ADD 15 LBS/ACRE HALLED BERMUDAGRASS	FALL: AUGUST 25 – OCTOBER 15 LATE WINTER: FEBRUARY 15 – APRIL 15 TO EXTEND SPRING SEEDING INTO JUNE, ADD 15 LBS/ACRE HALLED BERMUDAGRASS
SEEDING AMENDMENTS	APPLY LIME AND FERTILIZER PER SOIL TESTS, OR 4000 LBS/ACRE LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER.	APPLY LIME AND FERTILIZER PER SOIL TESTS, OR 4000 LBS/ACRE LIMESTONE AND 1000 LBS/ACRE 10-10-10 FERTILIZER.	APPLY LIME AND FERTILIZER PER SOIL TESTS, OR 4000 LBS/ACRE LIMESTONE AND 1000 LBS/ACRE 10-10-10 FERTILIZER.	APPLY LIME AND FERTILIZER PER SOIL TESTS, OR 4000 LBS/ACRE LIMESTONE AND 1000 LBS/ACRE 10-10-10 FERTILIZER.

TEMPORARY SEEDING FOR WARM AND COOL SEASON

SEEDING MIXTURE	EARLY SUMMER SEASON		STEEP SLOPES	
	40 LBS/ACRE OF CERNAM HULLET 80 LBS/ACRE OF TALL FESCUE	120 LBS/ACRE RYE (GRASS) 80 LBS/ACRE TALL FESCUE	120 LBS/ACRE RYE (GRASS) 80 LBS/ACRE TALL FESCUE	120 LBS/ACRE RYE (GRASS) 80 LBS/ACRE TALL FESCUE
SEEDING DATES	MAY 1 – AUGUST 15 REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE.	OCTOBER 25 – DECEMBER 30 BETWEEN DECEMBER 30 – FEBRUARY 15, ADD 50 LBS/ACRE OF ANNUAL KOBE LESPEDEZA.	OCTOBER 25 – DECEMBER 30 BETWEEN DECEMBER 30 – FEBRUARY 15, ADD 50 LBS/ACRE OF ANNUAL KOBE LESPEDEZA.	OCTOBER 25 – DECEMBER 30 BETWEEN DECEMBER 30 – FEBRUARY 15, ADD 50 LBS/ACRE OF ANNUAL KOBE LESPEDEZA.
SEEDING AMENDMENTS	APPLY 4000 LBS/ACRE STRAW OR EQUIVALENT HYDROSEEDING.	APPLY 4000 LBS/ACRE STRAW OR EQUIVALENT HYDROSEEDING.	APPLY 4000 LBS/ACRE STRAW OR EQUIVALENT HYDROSEEDING.	APPLY 4000 LBS/ACRE STRAW OR EQUIVALENT HYDROSEEDING.

NOTE 1
GROUND COVER: PROTECTIVE COVER MUST BE ESTABLISHED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS AFTER LAND DISTURBING ACTIVITY IS COMPLETED OR HAS TEMPORARILY CEASED.

NOTE 2
GRADED SLOPES AND FILLS: PROTECTIVE COVER MUST BE ESTABLISHED ON ALL GRADED SLOPES AND FILLS WITHIN 14 CALENDAR DAYS AFTER A PHASE OF GRADING IS COMPLETED OR HAS TEMPORARILY CEASED.



NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER: 2220725

DRAWN BY: TCL

REVIEWED BY: REW

ISSUED FOR: FINAL DESIGN

DATE: 9/22/23

DRAWING NAME:

© 2022 LaBella Associates



LCCU - NEW BERN AVE
BRANCH
5280 NEW BERN AVENUE
RALEIGH, NC 27601



GRAPHIC SCALE



NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2
3	11-17-23	REVISE PER ASR COMMENTS #3

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	11/17/23
DRAWING NAME:	

GRADING and DRAINAGE PLAN

DRAWING NUMBER:

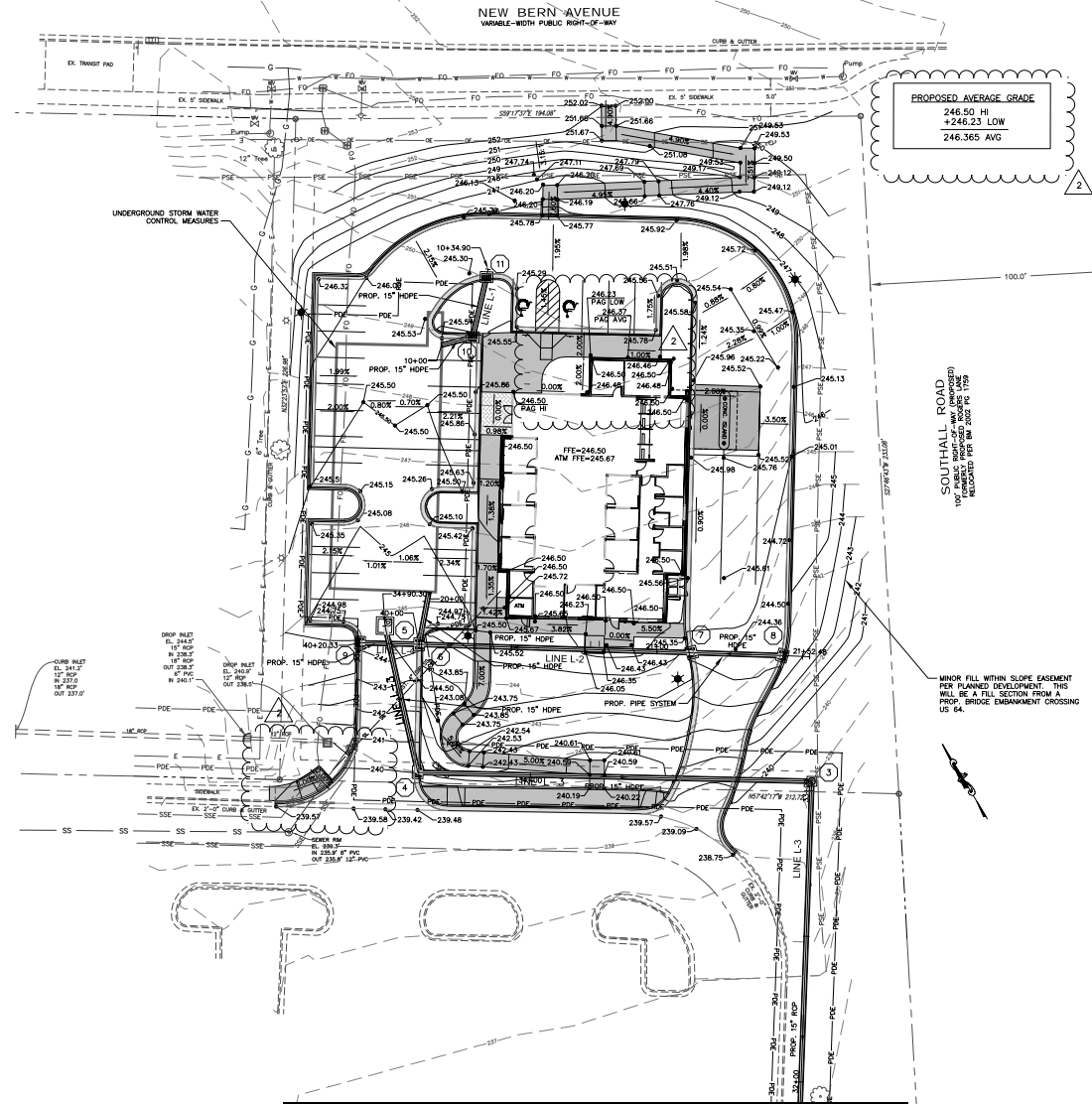
C4.0

GENERAL CONSTRUCTION NOTES

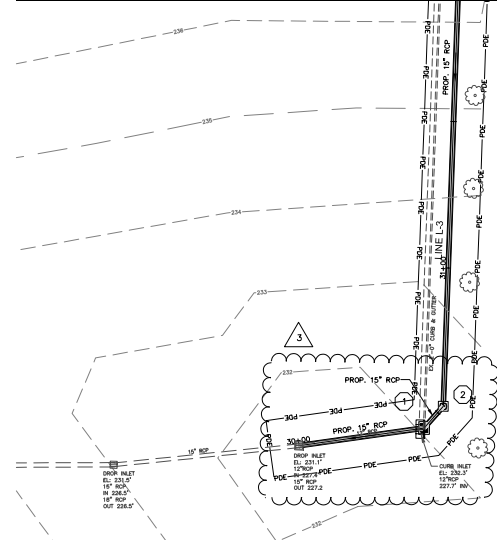
- APPROVAL OF THE PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
- ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES INCLUDING ASPHALT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBGRADE OR AGGREGATE BASE COURSE. ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
- CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER OR ENGINEER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
- ALL EARTH FILL TO BE COMPACTED TO MINIMUM 95% OF STD. PROCTOR MAXIMUM DRY DENSITY.
- TOP 12" OF SUBGRADE OF BUILDING PADS AND PARKING AREAS TO BE COMPACTED TO MINIMUM 100% OF STD. PROCTOR MAXIMUM DRY DENSITY.
- ALL RCP CULVERTS TO BE MINIMUM CLASS III RCP WITH TONGUE AND GROOVE OR BELL AND SPIGOT WATERPROOF JOINTS. JOINT MATERIAL SHALL BE BUTYL RUBBER MASTIC PER FSS-SS-S-00210.
- SUBGRADE OF PARKING AREAS TO BE PROOF ROLLED PRIOR TO STONE PLACEMENT.
- ABC STONE TO BE COMPACTED TO 100% OF STD. PROCTOR.
- BITUMINOUS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NCDOT STANDARD SPECIFICATIONS.
- ALL CONCRETE FOR SIDEWALKS, CURBS, AND DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DOWN SPOUT LOCATIONS. TIE DOWN SPOUTS TO PROPOSED DRAINAGE SYSTEM.
- ALL PVC PIPE FOR THE DRAINAGE SYSTEMS SHALL BE SCHEDULE 40.
- BUILDING SHALL HAVE 4" CLEAN, GRATED AND COMPACTED (NO SLAG) ABC STONE BELOW FOUNDATION. MINIMUM COMPACTION 100% STANDARD PROCTOR MAX DRY DENSITY.

GENERAL NOTES

- ALL PRIVATE STORM DRAINAGE EASEMENTS & STORMWATER MEASURES WILL BE MAINTAINED BY THE PROPERTY OWNERS ASSOCIATION



MATCH LINE STA. 1+50 - SEE THIS SHEET



ASR 1 NOTES

- SPOT ELEVATIONS, SLOPES, AND LABELING ADDED PER ASR REVIEW COMMENTS FROM CITY OF RALEIGH STAFF.

ROCK EXCAVATION NOTES:
ROCK EXCAVATION WILL BE REQUIRED ON THE PROJECT PER THE SUPPLIED GEOTECHNICAL REPORT. REFER TO SECTION 312000.
THE BASE BID QUANTITY FOR ROCK EXCAVATION IS 1,400 CUBIC YARDS FOR THE PROJECT. REFER TO PROJECT SPECIFICATIONS FOR MORE DETAIL REGARDING UNIT RATES AND ALLOWANCES.

11/17/2023 2:48 PM \\P0100101\DRAWING\NEW BERN AVE BRANCH\CONSTRUCTION\ASR\REVISED\C4.0 GRADING DRAINAGE.DWG



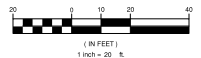
© 2022 LaBella Associates



LCCU - NEW BERN AVE
BRANCH
5280 NEW BERN AVENUE
RALEIGH, NC 27601



GRAPHIC SCALE



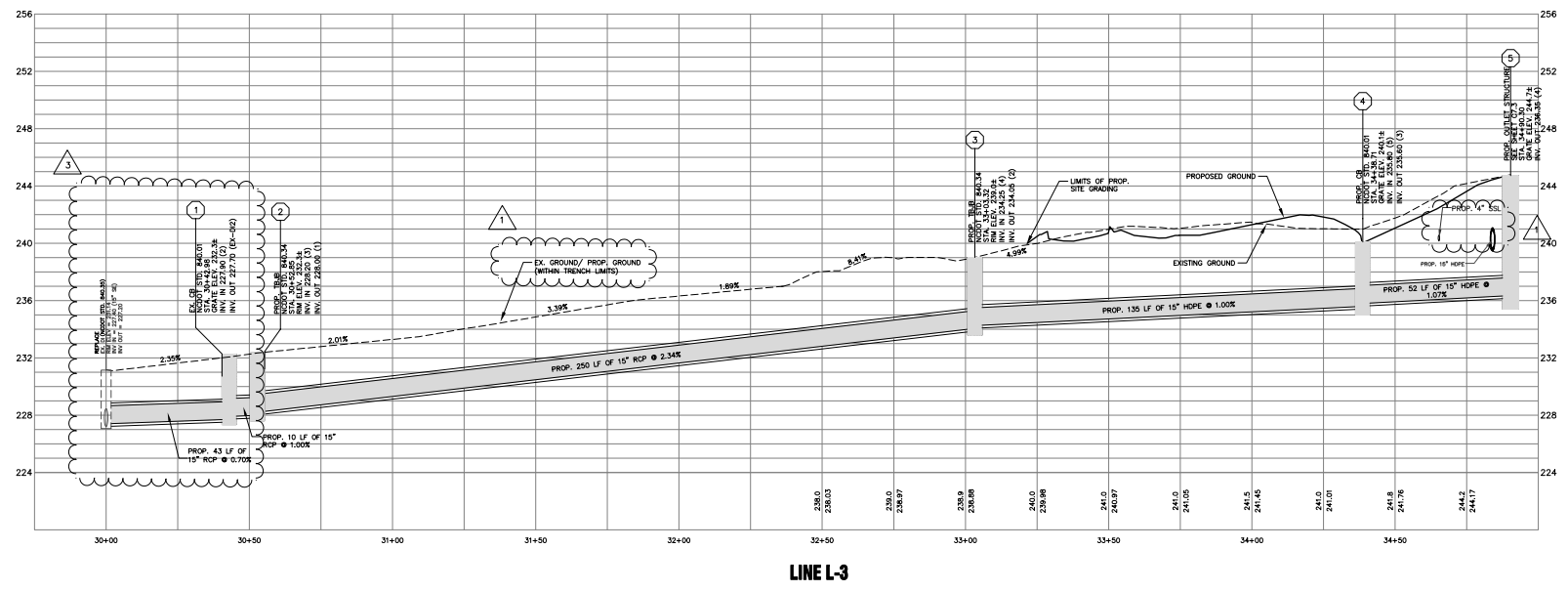
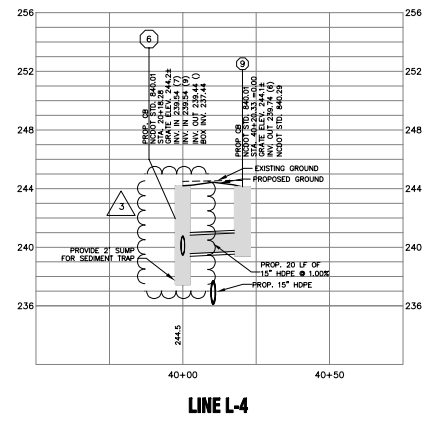
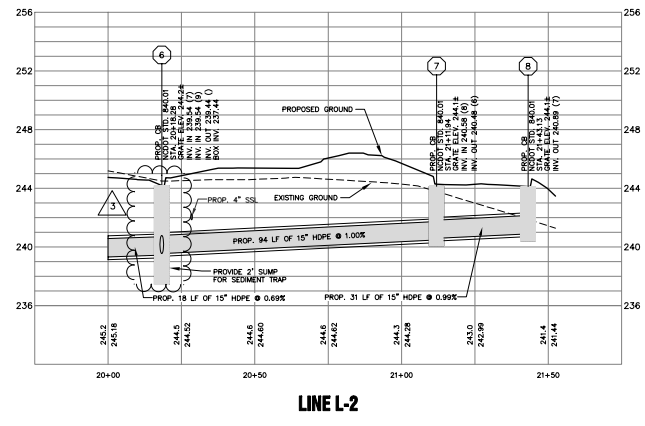
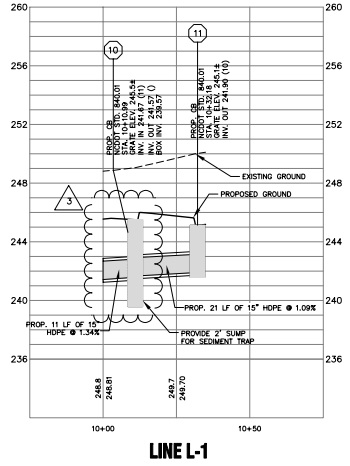
NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2
3	11-17-23	REVISE PER ASR COMMENTS #3

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	11/17/23
DRAWING NAME:	

**STORM DRAINAGE
PROFILES**

DRAWING NUMBER:

C4.1



11/17/2023 1:50 PM C:\PROJECTS\2022\NEW BERN AVE BRANCH\CONCRETE\ASB\STORM DRAINAGE PROFILES.DWG



LCCU - NEW BERN AVE
BRANCH
5280 NEW BERN AVENUE
RALEIGH, NC 27601



GRAPHIC SCALE



NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2
3	11-17-23	REVISE PER ASR COMMENTS #3

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	11/17/23
DRAWING NAME:	

UTILITY PLAN

DRAWING NUMBER

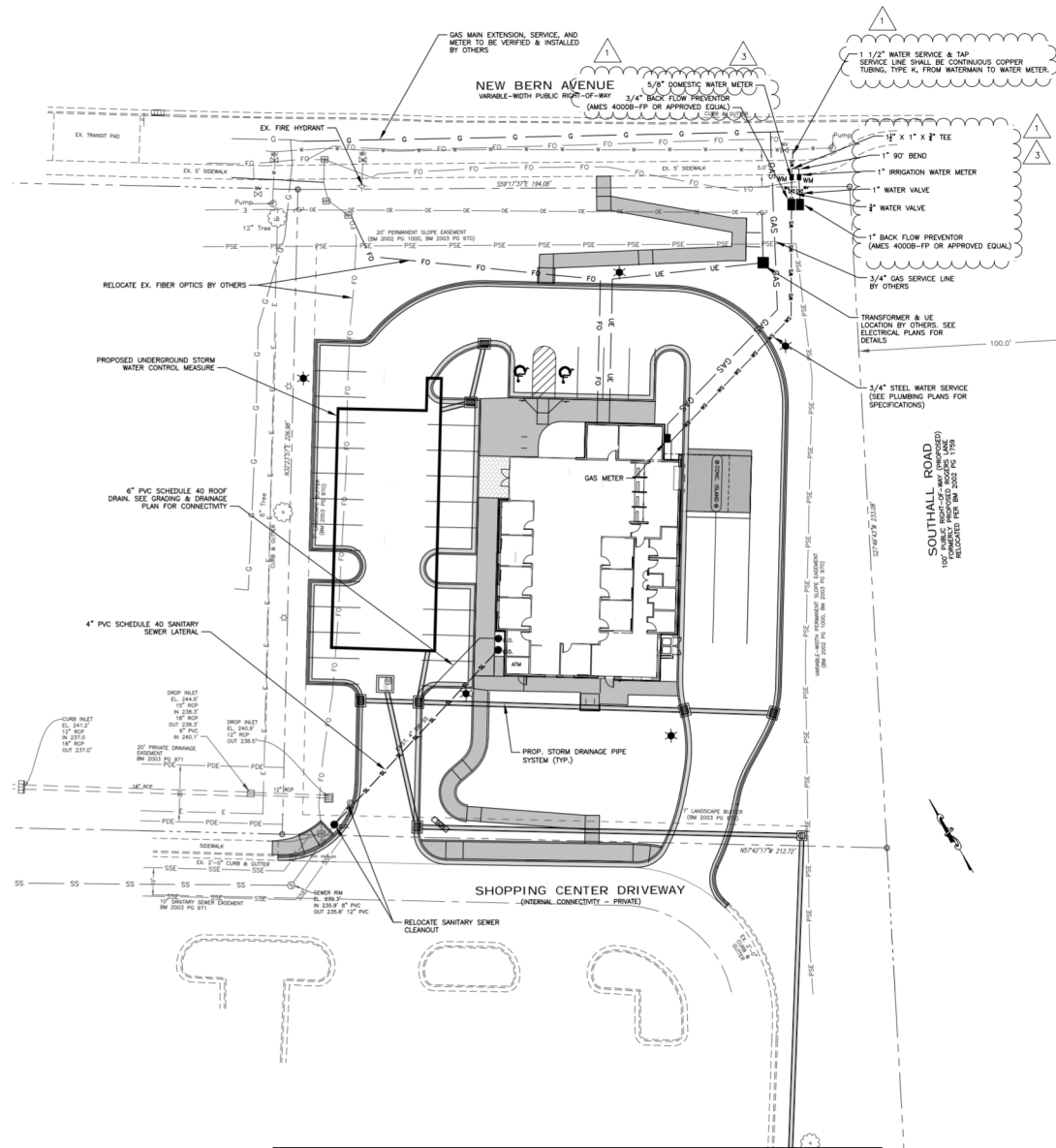
C5.0

BACKFLOW PREVENTION NOTES

1. INSULATED ENCLOSURE SHALL BE PROVIDED WITH A HEATER TO SUSTAIN A MINIMUM TEMPERATURE OF 40°. CONTRACTOR RESPONSIBLE FOR COORDINATING AND HAVING ELECTRICAL SERVICE BROUGHT TO BACKFLOW PREVENTION DEVICE FOR THE HEATER.
2. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS REQUIRED BACKFLOW DEVICE.
3. EACH BACKFLOW PREVENTER IS REQUIRED TO BE TESTED BY AN APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.
4. NO PLASTIC PIPE WITHIN 5 FEET OF EITHER END OF BACKFLOW PREVENTERS.
5. NO PERMANENT INSULATION SHALL BE INSTALLED ON THE BACKFLOW PREVENTER ASSEMBLY.

UTILITY NOTES:

- NCDEQ PRIVATE WATER PERMIT NO. PWP _____
 - NCDEQ PRIVATE SEWER PERMIT NO. WQOO _____
1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVED UTILITY PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 2. ALL PROPOSED UTILITIES SHALL BE CONSTRUCTED, INSPECTED, TESTED, AND CERTIFIED IN ACCORDANCE WITH AGENCY SPECIFICATIONS.



MATCH LINE SEE THIS SHEET

MATCH LINE SEE THIS SHEET



LCCU - NEW BERN AVE BRANCH
5280 NEW BERN AVENUE
RALEIGH, NC 27601



GRAPHIC SCALE



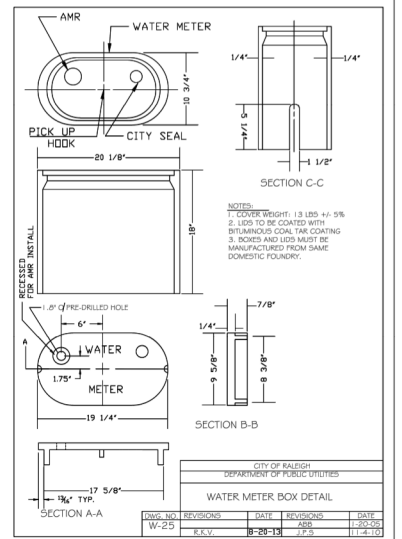
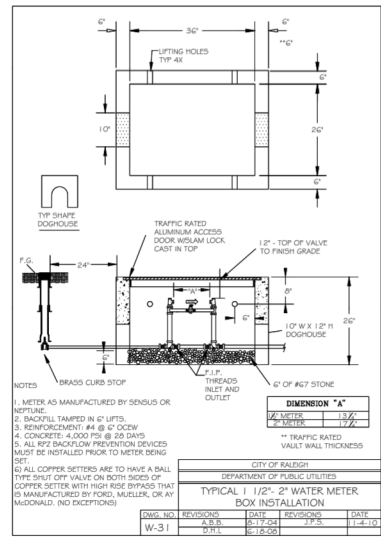
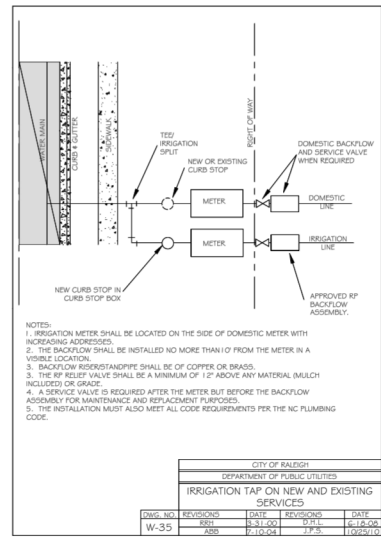
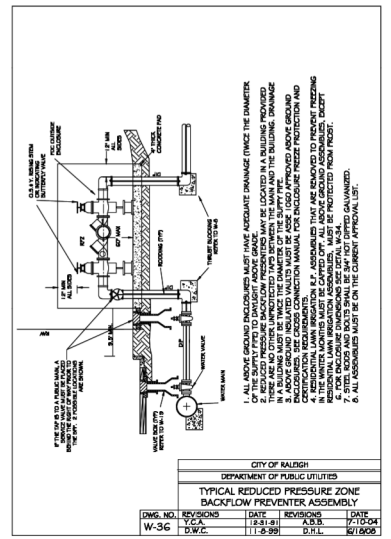
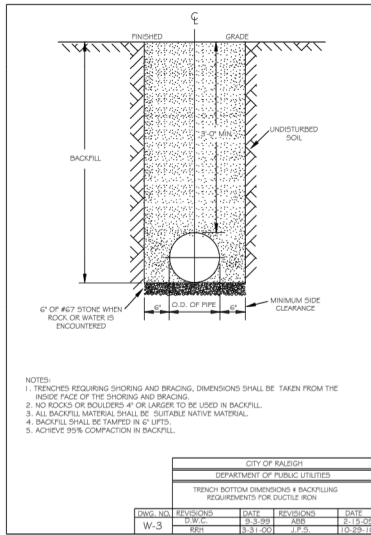
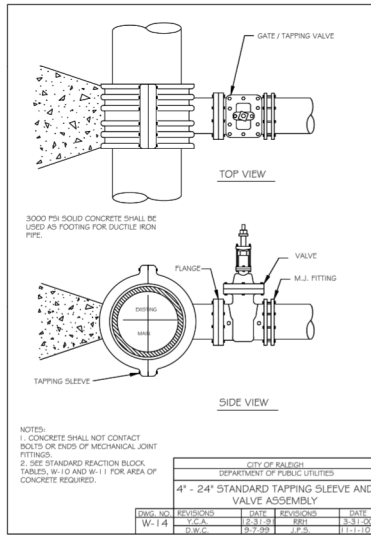
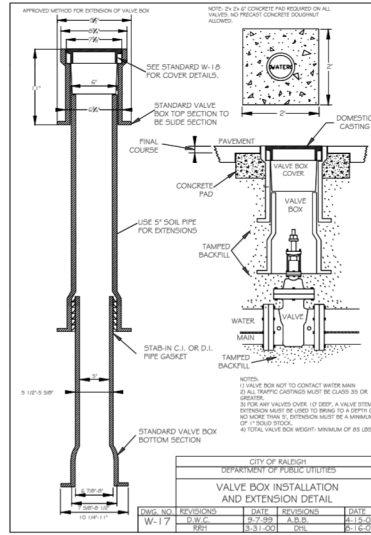
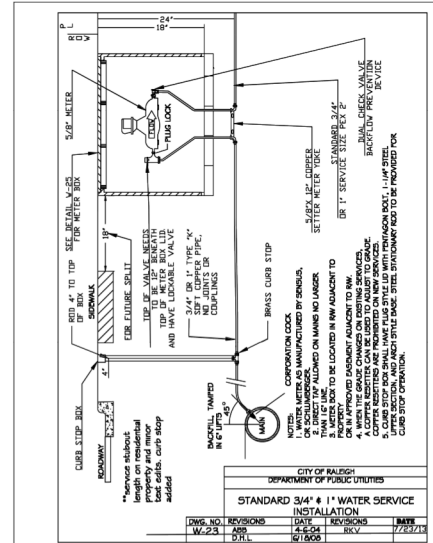
NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

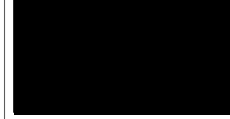
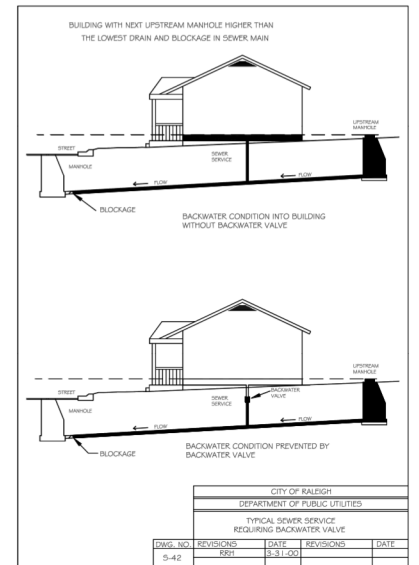
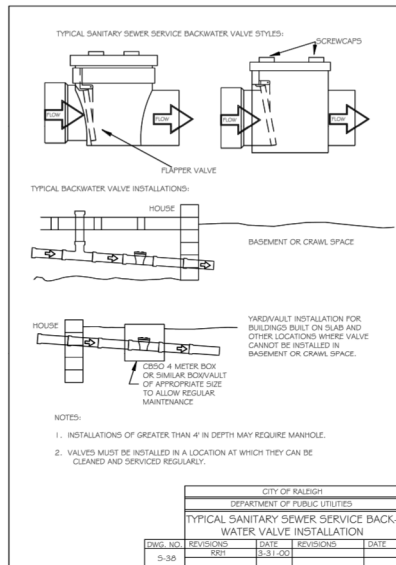
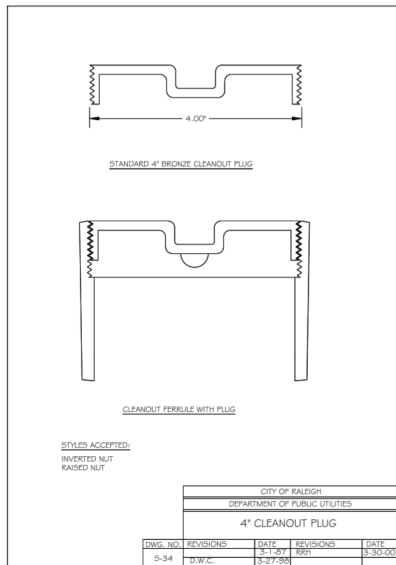
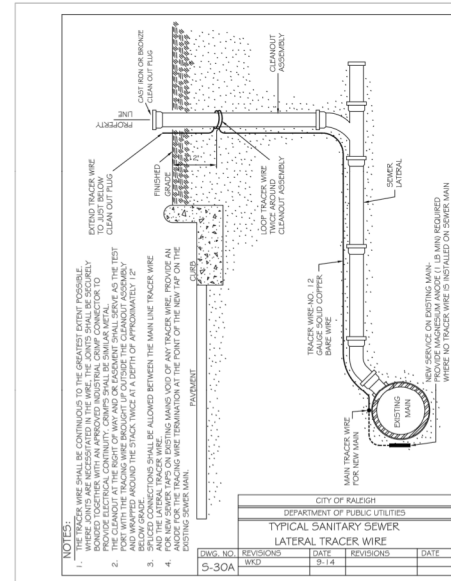
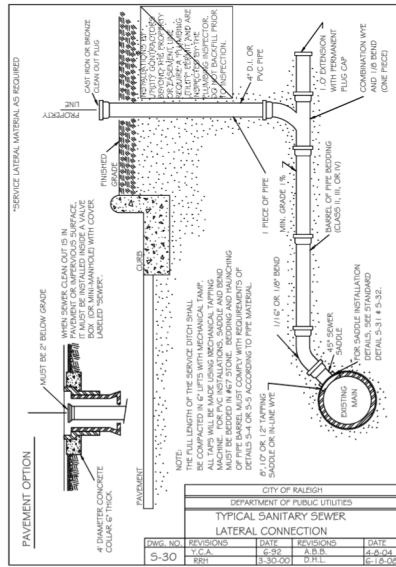
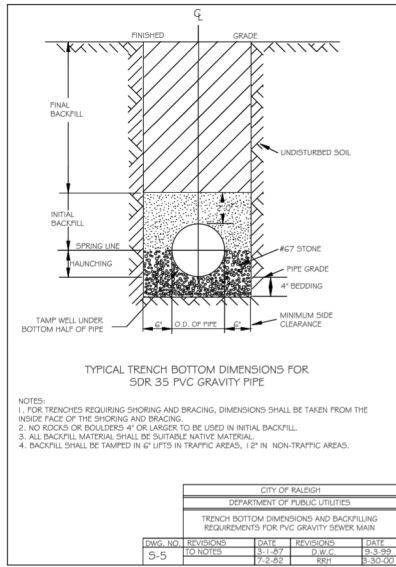
WATER DETAILS

DRAWING NUMBER:

C5.1



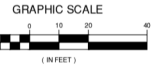
03/2023/05/01 NEW BERN AVE RAILROAD CROSSING/AMR/IRREGIGATION/UTILITY PLAN DWG



© 2022 LaBella Associates



LCCU - NEW BERN AVE BRANCH
 5280 NEW BERN AVENUE
 RALEIGH, NC 27601



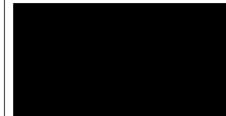
NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2

PROJECT NUMBER:		2220725
DRAWN BY:		TCL
REVIEWED BY:		REW
ISSUED FOR:		FINAL DESIGN
DATE:		9/2/23
DRAWING NAME:		

SEWER DETAILS

DRAWING NUMBER:

C5.2



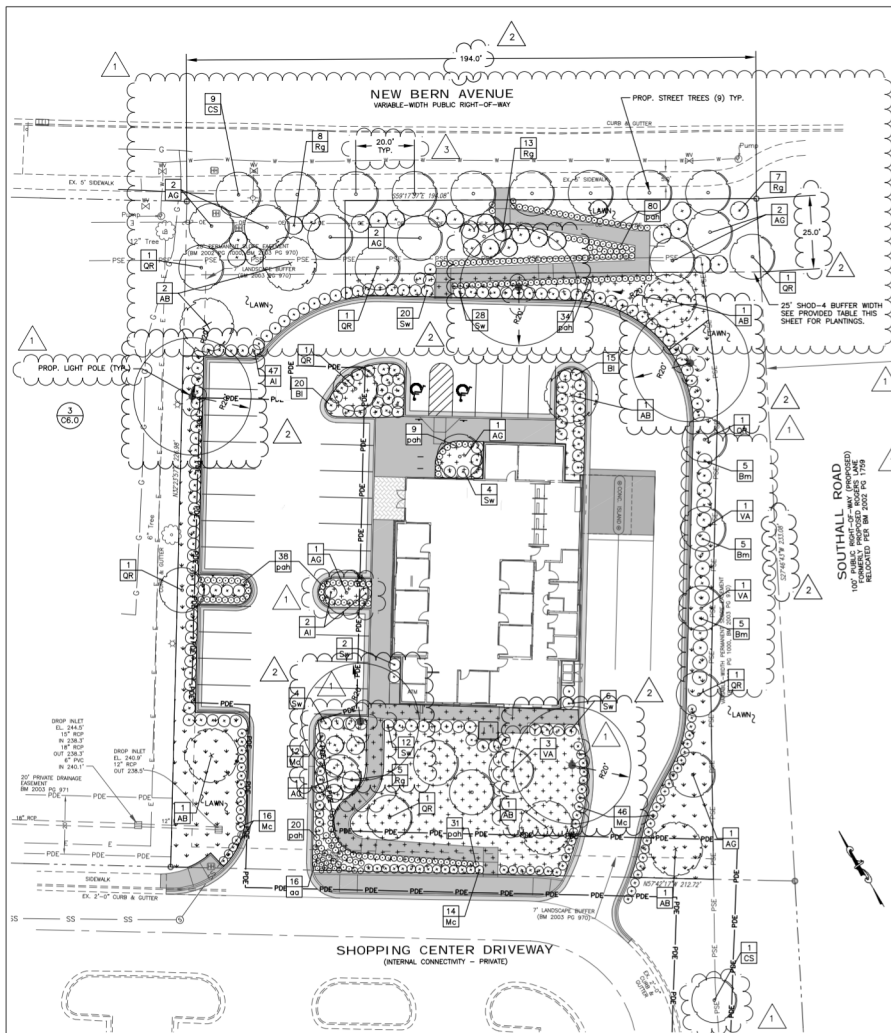
LCCU - NEW BERN AVE
BRANCH
5280 NEW BERN AVENUE
RALEIGH, NC 27601



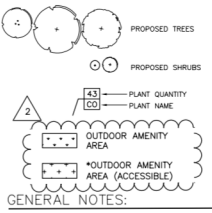
NO.	DATE	DESCRIPTION
1	2-24-23	REVISE PER ASR COMMENTS #1
2	5-5-23	REVISE PER ASR COMMENTS #2
3	11-17-23	REVISE PER ASR COMMENTS #3

PROJECT NUMBER: 2220725
DRAWN BY: TCL
REVIEWED BY: REW
ISSUED FOR: FINAL DESIGN
DATE: 11/17/23
DRAWING NAME:

LANDSCAPE PLAN



PLAN LEGEND:



GENERAL NOTES:

- CONTRACTOR RESPONSIBLE FOR ALL PLANTS SHOWN ON PLAN. QUANTITIES SHOWN FOR CONVENIENCE ONLY.
- SPACE PLANTS AS SHOWN ON PLAN OR IN PLANT LIST. ADJUST AS NECESSARY TO MEET EXISTING CONDITIONS.
- REPORT ANY DISCREPANCIES IN CONTRACT DOCUMENTS TO OWNER'S REPRESENTATIVE.
- FOR NEW PLANTING AREAS, REMOVE ALL PAVERS, GROUND, GRASS, AND CONSTRUCTION DEBRIS BEFORE PREPARING SOIL AND PLANTING TREES AND/OR SHRUBS. EXISTING COMPACTED SOIL SHALL BE REMOVED TO A DEPTH OF 18" AND REPLACED WITH 18" OF TOPSOIL/PLANTING MIX OR EXISTING SOIL MAY BE INCORPORATED TO A DEPTH OF 18" AND AMENDED TO MEET TOPSOIL. SEE NOTES BELOW FOR TOPSOIL REQUIREMENTS.
- ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL. ANY SUBSTITUTIONS IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
- PLANTING AREAS TO BE MULCHED WITH CLEAN SHREDDED BARK TO A MINIMUM DEPTH OF 3" MULCH TRUNKS TO 3"-0" BEYOND TRUNK, MINIMUM, AND TO BED LINES AS SHOWN. KEEP MULCH OFF THE TRUNKS OF TREES. STREET TREES TO BE MULCHED TO A MAXIMUM DEPTH OF 3" AND NO MULCH SHALL TOUCH THE TRUNK OF THE TREE OR COVER THE TREE'S ROOT FLARE.
- ALL PLANTS MUST BE PLANTED IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARD DETAIL SCHEDULE. SEE NOTES BELOW FOR PERMANENT AND TEMPORARY SEEDING MIX.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR/LANDSCAPER TO NOTIFY THE OWNER'S REPRESENTATIVE OF ANY SITE CONDITIONS THAT AFFECT TREE SPECIES OR LOCATIONS PRIOR TO PLANTING TREES AND FOR ANY CONDITIONS REGARDING ROOT, SOIL, OR OTHER CONCERNS. OTHER VALUES OR CHANGE IN RESPONSE MATERIALS.
- STREET TREES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 2 OF THE CITY TREE MANUAL.
- ALL STREET TREES ARE TO BE PLANTED IN ACCORDANCE WITH CITY OF RALEIGH STANDARD DETAIL SPP-03.

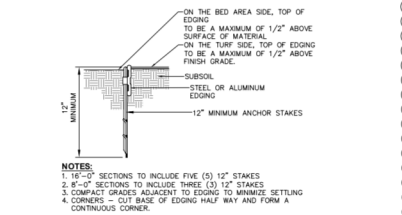
SOIL MIX FOR PLANTINGS:

- IMPORTED TOPSOIL: PROVIDE TOPSOIL CONFORMING TO THE FOLLOWING:
 - LOAM TOPSOIL: WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADDITION OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, GLAY, STONES, SOO OR OTHER OBJECTIONABLE MATERIAL.
 - CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE COMBUSTION METHOD ON A SAMPLE DRIED AT 100°C.
 - CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
- CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION	% PASSING
1/4"	100
NO 200	20-60

STANDARD SEEDBED PREPARATION NOTES:

- SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
- AREAS TO BE SEEDBED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP. TOP SEEDBED PREPARED DEPTH SHALL BE 4"-6" DEEP.
- LOOSE ROCKS, ROOTS, AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH THE ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION.
- IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME TO BE APPLIED ACCORDING TO SEEDING SPECIFICATIONS LISTED. IN ADDITION, PROVIDE 15 LBS/1000 SF OF SUPERPHOSPHATE.
- LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.



3 LANDSCAPE BED EDGING

PERMANENT SEEDING

SEEDING MIXTURE	GENTLE SLOPES	STEEP SLOPES
80 LBS/ACRE OF TALL FESCUE	100 LBS/ACRE TALL FESCUE 50 LBS/ACRE SERICEA LESPEDEZZA (UNSCARIFIED AFTER AUGUST 15) 10 LBS/ACRE KOBE LESPEDEZZA	100 LBS/ACRE TALL FESCUE 50 LBS/ACRE SERICEA LESPEDEZZA (UNSCARIFIED AFTER AUGUST 15) 10 LBS/ACRE KOBE LESPEDEZZA
SEEDING DATES	FALL: AUGUST 25 - OCTOBER 25 LATE WINTER: FEBRUARY 15 - APRIL 15 TO EXTEND SPRING SEEDING INTO JUNE, ADD 15 LBS/ACRE HULLED BERMUADGRASS OVERSEEDING OF KOBE LESPEDEZZA OVER FALL-SEEDED TALL FESCUE IS VERY EFFECTIVE.	FALL: AUGUST 25 - OCTOBER 25 LATE WINTER: FEBRUARY 15 - APRIL 15 TO EXTEND SPRING SEEDING INTO JUNE, ADD 15 LBS/ACRE HULLED BERMUADGRASS OVERSEEDING OF KOBE LESPEDEZZA OVER FALL-SEEDED TALL FESCUE IS VERY EFFECTIVE.
SEEDING AMENDMENTS	APPLY LIME AND FERTILIZER PER SOIL TESTS, OR 4000 LBS/ACRE LIMESTONE AND 1000 LBS/ACRE 10-10-10 FERTILIZER.	APPLY LIME AND FERTILIZER PER SOIL TESTS, OR 4000 LBS/ACRE LIMESTONE AND 1000 LBS/ACRE 10-10-10 FERTILIZER.

STREET TREE CALCULATIONS

(194 LF / 20 LF) = 9.7 UNDERSTORY STREET TREES
REQUIRED STREET TREES = 9
PROVIDED STREET TREES = 9

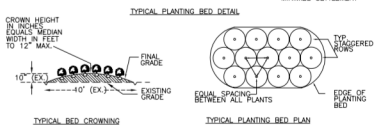
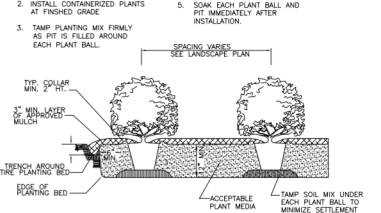
SHOUD-4 PLANTING CALCULATIONS

25' SHOUD-4 BUFFER & PLANTINGS PER MP-196
194 LF ROAD FRONTAGE - SHOUD-4 BUFFER WIDTH = 25 LF
REQUIRED SHADE TREES = (3 TREE/100 LF) = 5
REQUIRED UNDERSTORY TREES = (4 TREE/100 LF) = 7
PROVIDED SHRUBS = 107
PROVIDED SHADE TREES = 4
PROVIDED UNDERSTORY TREES = 6
PROVIDED SHRUBS = 107

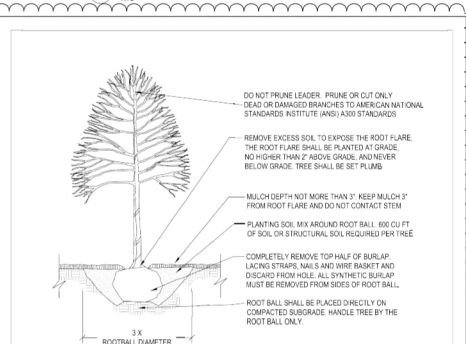
PARKING PLANTING CALCULATIONS

18,367 SF OF PARKING - PERIMETER 620 LF
REQUIRED SHADE TREES = (1 TREE/2000 SF) = 8
REQUIRED SHRUBS = (30 SHRUBS/100 LF PER) = 186
PROVIDED SHADE TREES = 12
PROVIDED UNDERSTORY TREES = 7
PROVIDED SHRUBS = 198

- NOTES:**
- SCAFFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL AT FINISHED GRADE.
 - INSTALL CONTAINERIZED PLANTS AS PER PLANTING MIX FIRMLY AS TAMP IS FILLED AROUND EACH PLANT BALL.
 - OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
 - SOAK EACH PLANT BALL AND FIT IMMEDIATELY AFTER INSTALLATION.



1 SHRUB PLANTING DETAIL



- NOTES:**
- TREES MUST MEET THE TREE QUALITY STANDARDS IN CH 2 OF THE CITY TREE MANUAL.
 - CONTRACTOR IS RESPONSIBLE FOR ADEQUATE DRAINAGE OF ALL PLANTING PITS (POSITIVE DRAINAGE AWAY FROM PIT).
 - TREES SHALL BE PLANTED BETWEEN OCTOBER 1ST AND APRIL 30TH.
 - A TREE IMPACT PERMIT IS REQUIRED.
 - ELECTRICAL OUTLETS AND OTHER UTILITIES ARE PROHIBITED IN THE PLANTING AREA IMMEDIATELY SURROUNDING THE TREES.
 - IF STAKING IN ACCORDANCE WITH THE CITY TREE MANUAL, THE STAKING MUST BE REMOVED WITHIN ONE YEAR.
 - TREES WILL HAVE A MINIMUM 1 YEAR WARRANTY AFTER THE INITIAL PLANTING IS APPROVED BY THE CITY.

CITY OF RALEIGH
STANDARD DETAIL
REVISIONS: NONE
NOTED: NONE
TREE PLANTING DETAIL
TPP-03

2 PLANTING DETAIL - SINGLE STEM TREE

PLANT LIST

QTY	ABRV	BOTANICAL NAME	COMMON NAME	PLANTED SIZE	COND	SPACING	REMARKS
7	AB	Acer buergerianum	Trident Maple	3" Cal./10" Ht.	B&B	As Shown	Single-Stem
8	OR	Quercus rubra	Red Oak	3" Cal./10" Ht.	B&B	As Shown	Single-Stem
11	AG	Amelanchier grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	1.5" Cal./8" Ht.	B&B	As Shown	
10	CS	Cornus spp.	Dogwood	1.5" Cal./8" Ht.	B&B	As Shown	Single-Stem
5	VA	Vitex agnus-castus	Lilac Chastetree	1.5" Cal./8" Ht.	B&B	As Shown	

SHRUBS, PERENNIALS AND ORNAMENTAL GRASSES

47	AI	Abella x grandiflora 'Little Richard'	Little Richard Glossy Abella	18" Ht.	Cont.	As Shown	
76	Sw	Spires x bumaldia 'Anthony Waterer'	Anthony Waterer Spires	18" Ht.	Cont.	As Shown	
88	Mc	Muhlenbergia cogiflora	Pink Muhly Grass	18" Ht.	Cont.	As Shown	
16	OR	Zoster ornata 'Violet Queen'	Heaven Asters	12" Ht.	Cont.	As Shown	
213	paH	Penstemon alpinus 'Hornet'	Hornet Fountain Grass	18" Ht.	Cont.	As Shown	
31	Rg	Rhus aromatica 'Gro-low'	Gro-Low Sumac	18" Ht.	Cont.	As Shown	
35	Bl	Buddleia davidii 'Buddleyer'	Buddleia 'Dapper Lavender'	18" Ht.	Cont.	As Shown	
15	Bm	Buxus microphylla japonica	Winter Gem Boxwood	36" Ht.	Cont.	As Shown	



**LCCU - NEW BERN AVE
BRANCH**
5280 NEW BERN AVENUE
RALEIGH, NC 27601



NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	2220725
DRAWN BY:	TCL
REVIEWED BY:	REW
ISSUED FOR:	FINAL DESIGN
DATE:	9/22/23
DRAWING NAME:	

**STORMWATER
MANAGEMENT CONTECH
DETAILS**

DRAWING NUMBER:

C7.1

PROJECT SUMMARY

CALCULATION DETAILS

- LOADING - HEADSIZES
- APPROX. LINER FOOTAGE = 303 LF

STORAGE SUMMARY

- STORAGE VOLUME REQUIRED = 8,700 CF
- PIPE STORAGE VOLUME = 6,801 CF
- BACKFILL STORAGE VOLUME = 6 CF
- TOTAL STORAGE PROVIDED = 6,807 CF

PIPE DETAILS

- CONCRETE = 8"Ø
- CORRUGATION = S41
- GAGE = 14
- COATING = ALZ
- WALL TYPE = SOLID
- BARREL SPACING = 30"

BACKFILL DETAILS

- WIDTH AT ENDS = 12"
- WIDTH AT SIDES = 12"
- BELOW PIPE = 4"

See sheet C4.0 & C7.3 for system connectivity & details.

NOTE

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONAL DIMENSIONS AND LOCATIONS FOR ALL FITTINGS SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO BEGINNING OF CONSTRUCTION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A536.
- ALL RISERS AND STUBS ARE 20" Ø 3" CORRUGATION AND TO BE FINISH CHANGING TO 18" Ø.
- RISERS TO BE FIELD FINISHED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE WITH THE FITTINGS. THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAIL PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CLIENT.
- BASED UPON THE SUBMITTED LAYOUT FINAL DESIGN.
- THE PROJECT SUMMARY IS REFLECTIVE OF THE DESIGN QUANTITIES AND APPROVAL AND APPROVAL, FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY ACCURATE FOR MATERIALS WITHIN THE ESTIMATED BACKFILL FOR FOOTING.
- THESE DIMENSIONS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PRESCRIPTIONS OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

ASSEMBLY
SCALE: 1" = 10'

DYO030800 LCCU - New Bern Branch
60in UDS - Main and WQV
Raleigh, NC
DETENTION SYSTEM

NO.	DATE:	DESCRIPTION:

DETENTION SYSTEMS - CMP DETENTION / CMP DRAINAGE

Material Location	Description	Material Designation	Configuration
1	1.0	1.0	1.0
2	2.0	2.0	2.0
3	3.0	3.0	3.0
4	4.0	4.0	4.0
5	5.0	5.0	5.0
6	6.0	6.0	6.0
7	7.0	7.0	7.0
8	8.0	8.0	8.0
9	9.0	9.0	9.0
10	10.0	10.0	10.0
11	11.0	11.0	11.0
12	12.0	12.0	12.0
13	13.0	13.0	13.0
14	14.0	14.0	14.0
15	15.0	15.0	15.0
16	16.0	16.0	16.0
17	17.0	17.0	17.0
18	18.0	18.0	18.0
19	19.0	19.0	19.0
20	20.0	20.0	20.0
21	21.0	21.0	21.0
22	22.0	22.0	22.0
23	23.0	23.0	23.0
24	24.0	24.0	24.0
25	25.0	25.0	25.0
26	26.0	26.0	26.0
27	27.0	27.0	27.0
28	28.0	28.0	28.0
29	29.0	29.0	29.0
30	30.0	30.0	30.0
31	31.0	31.0	31.0
32	32.0	32.0	32.0
33	33.0	33.0	33.0
34	34.0	34.0	34.0
35	35.0	35.0	35.0
36	36.0	36.0	36.0
37	37.0	37.0	37.0
38	38.0	38.0	38.0
39	39.0	39.0	39.0
40	40.0	40.0	40.0
41	41.0	41.0	41.0
42	42.0	42.0 </tr	

TYPICAL MANWAY DETAIL
SCALE: N.T.S.

TYPICAL RISER DETAIL
SCALE: N.T.S.

TYPICAL SECTION VIEW
LINER OVER ROWS
SCALE: N.T.S.

NOTE: IF BALDING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, AN HOPE MEMBRANE LINER IS RECOMMENDED WITH THE SYSTEM. THE MEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE COMPUTATIONAL MODEL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

ASSEMBLY
SCALE: 1" = 10'

DYO030800 LCCU - New Bern Branch
60in UDS - Main and WQV
Raleigh, NC
DETENTION SYSTEM

NO.	DATE:	DESCRIPTION:

REINFORCING TABLE

Ø CMP RISER	A	Ø B	REINFORCING	**BEARING PRESSURE (PSF)
24"	8' 6"	20"	#6 @ 12" OC EW	2,410
	4' 6"	16"	#6 @ 12" OC EW	1,980
30"	8' 6"	30"	#6 @ 12" OC EW	2,120
	4' 6"	24"	#6 @ 12" OC EW	1,680
36"	8' 6"	36"	#6 @ 12" OC EW	1,860
	4' 6"	30"	#6 @ 12" OC EW	1,380
42"	8' 6"	44"	#6 @ 12" OC EW	1,200
	4' 6"	36"	#6 @ 12" OC EW	1,210
48"	8' 6"	50"	#6 @ 12" OC EW	1,600
	4' 6"	42"	#6 @ 12" OC EW	1,100

**ASSURED SOIL BEARING CAPACITY

CONSTRUCTION LOADING DIAGRAM
SCALE: N.T.S.

CONSTRUCTION LOADING TABLE

PIPE SPAN INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
18-42	2.0	2.5	3.0	3.0
42-75	3.0	3.0	3.5	4.0
75-120	3.0	3.5	4.0	4.0
120-144	3.5	4.0	4.5	4.5

REVISIONS

NO.	DATE	DESCRIPTION

CONTECH ENGINEERED SOLUTIONS LLC
www.conteches.com
3005 Centre Point Dr., Suite 400, West Chester, OH 45380
953-338-1122 934-665-7000 934-665-7883 FAX

CONTECH CMP DETENTION SYSTEMS
DYDOS DESIGN

DY030800 LCCU - New Bern Branch
60in UDS - Main and WQV
Raleigh, NC
DETENTION SYSTEM

CMP DETENTION INSTALLATION GUIDE

PROPER INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS SYSTEMS SUBSISTEM SCHEMATA AND PIPE CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

FOUNDATION
CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADS APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHT AS WELL AS MAINTAIN ITS INTACT DURING CONSTRUCTION.

IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPACTED BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR Pavement ABOVE. IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERGROUND SOILS AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STIFF REINFORCING GEOTEXTILE REDUCES OVER EQUATION AND REPAIR/REPLACE FILL QUANTITIES.

GEOMEMBRANE BARRIER
A SITES RESISTIVITY MAY CHANGE OVER TIME WHEN VARIOUS TYPES OF SALTING AGENTS ARE USED, SUCH AS ROAD SALT FOR DEICING AGENTS. IF SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE, THE GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM THE USE OF SUCH AGENTS INCLUDE PREMATURE CORROSION AND REDUCED ACTUAL SERVICE LIFE.

THE PROJECTS ENGINEER OF RECORD IS TO EVALUATE WHETHER SALTING AGENTS WILL BE USED ON OR NEAR THE PROJECT SITE, AND USE THE MOST APPROPRIATE TO DETERMINE IF AN ADDITIONAL PROTECTIVE MEASURE IS REQUIRED. BELOW IS A TYPICAL DETAIL SHOWING THE PLACEMENT OF A GEOMEMBRANE BARRIER FOR PROJECTS WHERE SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE.

IN-SITU TRENCH WALL
IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE SHARES AS THE SYSTEM IS LAID. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFLECT. PERFORM A SAMPLER SOIL PRESSURE CHECK USING THE APPLIED LOAD TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE PRINCIPAL LINE OF THE OUTER MOST PIPES.

IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.

BACKFILL PLACEMENT
MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVELS, BUCKETS, ROOFTOP AIR TRIMMERS, VIBRATORY ROLL, OR OTHER EFFECTIVE METHODS.

FOR LARGE SYSTEMS, CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR CRANES WITH STONE BUCKETS MAY BE USED TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADS ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL, AND BEHIND THE SEQUENCE ABOVE, THE SYSTEM IS COMPLETELY BACKFILLED. THE TYPE OF BACKFILL TO BE USED SHALL BE REPRESENTATIVE THEORY IS SATISFIED WITH THE LEVEL OF COMPACTION.

FOR LARGE SYSTEMS, CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR CRANES WITH STONE BUCKETS MAY BE USED TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADS ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL, AND BEHIND THE SEQUENCE ABOVE, THE SYSTEM IS COMPLETELY BACKFILLED. THE TYPE OF BACKFILL TO BE USED SHALL BE REPRESENTATIVE THEORY IS SATISFIED WITH THE LEVEL OF COMPACTION.

FOR LARGE SYSTEMS, CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR CRANES WITH STONE BUCKETS MAY BE USED TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADS ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL, AND BEHIND THE SEQUENCE ABOVE, THE SYSTEM IS COMPLETELY BACKFILLED. THE TYPE OF BACKFILL TO BE USED SHALL BE REPRESENTATIVE THEORY IS SATISFIED WITH THE LEVEL OF COMPACTION.

CONSTRUCTION LOADING
TYPICALLY, THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES 16-20 LB/IN² LEVEL LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PIPE CONSTRUCTION MEETING.

ADDITIONAL CONSIDERATIONS
BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW-GRADE, BACKFILL CAN INVADE THE EXCAVATION POTENTIALLY CAUSING FLOUTATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PIPE BULGE, IT IS BEST TO RESTRICT THE INSTALLATION TO THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR THE WATER TO EXIST. TEMPORARY OVERSIZING REQUIRES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.

CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE
CONSTRUCTION OF UNDERGROUND DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION
INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND REALLY PERFORMS CONTECH RECOMMENDED ONGOING, ANNUAL INSPECTIONS. SITES WITH HIGH TRAFFIC LOAD OR SMALL OUTLET CAPACITY SYSTEMS MAY NEED MORE FREQUENT INSPECTION. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DEPEND ON THE RATE AT WHICH SPECIFIC ACTIVITIES TAKE PLACE. THE SIZE OF CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT WORKSHOP AREAS. IN CITIES WHERE SANDING AND SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS SITUATIONS IN WHICH ONE WOULD EXPECT HEAVY ACCUMULATIONS OF SEDIMENT OR ABRAISIVE/ CORROSIVE CONDITIONS A RECORD OF EACH INSPECTION SHOULD BE MAINTAINED FOR THE LIFE OF THE SYSTEM.

MAINTENANCE
CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVALUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEALED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESS/INSPECTION MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET COVER SHOULD BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES. ALL APPROPRIATE PRECAUTIONS REGARDING CONFIRMED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. DURING THIS INSPECTION, IF EVIDENCE OF SOIL PROLOGUE AGENTS IS OBSERVED WITHIN THE SYSTEM, IT IS BEST PRACTICE FOR AGENTS TO BE REMOVED. INCLUDING ABOVE THE SPREAD LINE SOON AFTER THE SPRING OR EARLY FALL. THE MAINTENANCE PROGRAM FOR THE SYSTEM.

MAINTAINING AN UNDERGROUND DETENTION OR INFILTRATION SYSTEM IS EASIER WHEN THERE IS NO FLOW DURING THE SYSTEM FOR THIS REASON, IT IS A GOOD IDEA TO SCHEDULE THE CLEANOUT DURING DRY WEATHER.

THE FOREGOING INSPECTION AND MAINTENANCE EFFORTS HELD ENSURE UNDERGROUND PIPE SYSTEMS USED FOR STORMWATER STORAGE CONTINUE TO FUNCTION AS INTENDED BY 800+ YEARS OF RECOMMENDED REGULAR INSPECTION AND MAINTENANCE PRACTICES. INSPECTION AND MAINTENANCE RELATED TO THE PIPE OR JOINTS OF THE PIPE OR BEYOND THE SCOPE OF THIS GUIDE.

REVISIONS

NO.	DATE	DESCRIPTION

CONTECH ENGINEERED SOLUTIONS LLC
www.conteches.com
3005 Centre Point Dr., Suite 400, West Chester, OH 45380
953-338-1122 934-665-7000 934-665-7883 FAX

CONTECH CMP DETENTION SYSTEMS
DYDOS DESIGN

DY030800 LCCU - New Bern Branch
60in UDS - Main and WQV
Raleigh, NC
DETENTION SYSTEM

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 2220725

DRAWN BY: TCL

REVIEWED BY: REW

ISSUED FOR: FINAL DESIGN

DATE: 9/22/23

DRAWING NAME:

**STORMWATER
MANAGEMENT CONTECH
DETAILS**

DRAWING NUMBER:

C7.2

