CITY OF FAYETTEVILLE, NORTH CAROLINA

REQUEST FOR QUALIFICATIONS – CONSTRUCTION MANAGER AT RISK (CMAR)

Public Safety Answering Point (PSAP) 911 Call Center

RFQ No. COF1517015

DATE ISSUED: October 5, 2026

SUBMISSIONS DUE: November 19, 2026 at 2:00 PM ET

ISSUED BY: City of Fayetteville, North Carolina

PRIMARY CONTACT:

Kimberly Toon, CLGPO,CLGFO
Assistant Chief Financial Officer-Procurement
kimberlytoon@fayettevillenc.gov
(910) 433-1942

SUBMITTING FIRMS ARE NOT REQUIRED TO RETURN THIS FORM.

FAYETTEVILLE NC
AMERICA'S CAN DO CITY

A message from the City of Fayetteville City Manager, Dr. Douglas J. Hewett, ICMA-CM

The City of Fayetteville is fully committed to providing Small Local Business Enterprises (SLBEs) and small businesses an equal opportunity to participate in all aspects of City contracting, including but not limited to participation in the procurement of contracts relating to construction, professional services, equipment, supplies, and improvements to facilities throughout the City.

It is the policy of the City to prohibit discrimination against any person or business in pursuit of these opportunities on the basis of race, sex, color, religion, national origin, age, or disability, and to conduct its contracting and purchasing programs so as to prevent such discrimination. The City is committed to following all applicable federal, state, and local laws as they relate to procurement practices.

Small Business Participation Commitment

The City will actively seek and identify qualified small businesses, including SLBEs, and offer them the opportunity to participate in the procurement of contracts for all City purchasing and service contracts as well as construction and repair contracts. The City aspires to spend 40% of its eligible contract dollars with small local suppliers and contractors.

Small Business Enterprise Program

The City's Charter has been amended by the General Assembly (H.B. 198) to establish a small business enterprise program to promote the development of small local businesses. The City is authorized to establish bid and proposal specifications that include measures to enhance participation by small business enterprises located in Cumberland and Hoke Counties, including:

- Arranging solicitations, specifications, and contract requirements to facilitate small business participation
- Providing technical assistance and capacity building programs
- Carrying out information and communication programs on contracting procedures and opportunities
- Implementing outreach programs to identify and engage qualified small businesses
- Offering supportive services to help small businesses compete effectively
- Ensuring prompt payment to subcontractors
- Simplifying bonding and insurance requirements where appropriate

Federal and State-Funded Projects - Important Notice

In accordance with state directive following the U.S. Department of Transportation's October 3, 2025 Interim Final Rule to 49 CFR Part 26:

FAYETTEVILLE NC
AMERICA'S CAN DO CITY

For Federally-Funded Contracts:

- No DBE goals may be established for federally-funded contracts until further guidance is provided by the state
- All existing DBE certifications are in suspended status pending Unified Certification Program (UCP) reevaluation under new individualized disadvantage standards
- Firms are not required to submit DBE participation commitments at this time

For State-Funded Contracts:

- No MB/WBE goals may be established for state-funded contracts until further guidance is provided by the state

The City will continue to facilitate participation by all qualified small businesses through the measures listed above and will resume DBE and MB/WBE program activities once the state provides further guidance.

Equal Opportunity for All

The City is committed to:

- Providing equal access to contracting opportunities for all qualified businesses
- Removing barriers to small business participation
- Supporting economic development and capacity building in our community
- Ensuring fair and open competition in all procurements
- Maintaining compliance with all applicable federal, state, and local requirements
- Supporting diversity in our supplier and contractor base

For more information or questions about the SLBE policy, please contact the Purchasing Division at 910-433-1942.

CITY OF FAYETTEVILLE

Dr. Douglas J. Hewett, ICMA-CM
City Manger

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SECTION 1 – KEY NOTICE INFORMATION

KEY NOTICE INFORMATION	
RFQ Release Date:	**October 5, 2026**
Deadline for Questions:	**October 29, 2026 at 5:00 PM ET**
Addendum Release:	**November 5, 2026 at 2:00 PM ET**
Deadline for Submission:	**November 19, 2026 at 2:00 PM ET**
Selection Date:	**December 16, 2026**
Submission Address:	**Kimberly Toon**, Assistant Chief Financial Officer-Procurement City of Fayetteville, City Hall | 433 Hay Street, Fayetteville, NC 28301
Questions & Contact:	COFbiddingquestions@FayettevilleNC.gov
Bid Opportunities:	https://www.fayettevillenc.gov/City-Departments/Finance/Purchasing/Bid-Opportunities

SECTION 2 – GENERAL INFORMATION

2.1 About This Solicitation

The City of Fayetteville, North Carolina (the "City" or "Owner") is issuing this Request for Qualifications ("RFQ") for a Construction Manager at Risk ("CMAR") to provide Pre-Construction Services and Construction Services for the **Public Safety Answering Point (PSAP) 911 Call Center** project.

This is a qualifications-based selection (QBS) solicitation pursuant to N.C. General Statutes § 143-64.31. Technical specifications and construction drawings are NOT included in or required for this RFQ — specifications and drawings will be developed during the design phase and will form the basis of the single Guaranteed Maximum Price (GMP) Amendment.

2.2 Project Summary

This project will create a new, approximately 18,000-square-foot facility designed to support future growth and accommodate up to 30 employees. The design will include a large training room to host regional public safety training, enhancing coordination across agencies. The building will be designed with resilience and safety as core principles— engineered to withstand identified risks and equipped with redundancies to ensure uninterrupted 911 operations during emergencies.

2.3 Project Background

The City of Fayetteville's current Public Safety Answering Point (PSAP), or 911 Center, is located near a hazardous materials railroad right-of-way and in the heart of downtown, an area with frequent civic activity. The facility also faces space constraints that limit its ability to accommodate the additional staff needed to manage the significant increase in service calls over the past decade. Due to these safety concerns and the lack of capacity for expansion, the City identified the PSAP as a high-priority project. In 2022, voters overwhelmingly approved the allocation of bond funding to support its replacement or relocation.

2.4 Construction Budget

The City's estimated construction budget for this project is approximately **$26,000,000**. This figure is for planning purposes only and does not represent a commitment by the City.

2.5 Anticipated Project Schedule

The City's anticipated schedule milestones are as follows. All dates are subject to change:

- **RFQ Release Date: October 5, 2026**
- **Question Deadline: October 29, 2026 at 5:00 PM ET**
- **Addendum Release: November 5, 2026 at 2:00 PM ET**
- **SOQ Submission Deadline: November 19, 2026 at 2:00 PM ET**
- **Shortlist / Interview Notification: November 24, 2026**
- **CMAR Selection: December 16, 2026**
- **Pre-Construction Services Begin: May 2027**
- **Estimated GMP Amendment Execution: July 2027**
- **Estimated Construction Start: August 2027**
- **Estimated Substantial Completion: July 2028**

2.6 Project Delivery Method

The City has elected the Construction Manager at Risk (CMAR) project delivery method as authorized by N.C. General Statutes §§ 143-128(a1)(4) and 143-128.1, with the CMAR selected under the qualifications-based process in N.C. General Statutes § 143-64.31 et seq. The selected CMAR will provide Pre-Construction Services and, upon City Council approval and execution of a single GMP Amendment, Construction Services. The CMAR holds all trade contracts and is responsible for delivering the project within the Guaranteed Maximum Price.

SECTION 3 – SELECTION PROCESS

3.1 Legal Authority

The acquisition of CMAR services shall adhere to N.C. General Statutes § 143-64.31, which requires that firms be selected on the basis of demonstrated competence and qualification without regard to fee. This is a qualifications-based selection (QBS) process.

3.2 Selection Committee

A Selection Committee comprised of City of Fayetteville staff and project team members will assess all SOQ submissions and rank them based on the criteria outlined herein. The City retains the right to select the firm offering the most advantageous benefits to the City.

3.3 Selection Process Overview

- **Step 1 – SOQ Review:** The Selection Committee will evaluate all responsive Statements of Qualifications (SOQs) received by the deadline.
- **Step 2 – Ranking:** The Selection Committee will rank firms based on the evaluation criteria in Section 4.
- **Step 3 – Shortlisting (Optional):** The City may shortlist the top-ranked firms and invite them for interviews or to provide additional information.
- **Step 4 – Fee Negotiation:** The City will negotiate fees and contract terms with the top-ranked firm. If negotiations are unsuccessful, the City may negotiate with the next-ranked firm.
- **Step 5 – Contract Award:** Final contract approval will be taken to City Council once fee negotiations are complete.

3.4 Interviews

After the initial review, the Selection Committee may invite the top 2 to 3 ranked firms to participate in interviews. Interview details will be provided to shortlisted firms separately. The City reserves the right to make a selection without conducting interviews.

3.5 Right to Reject / Cancel

The City of Fayetteville reserves the right to accept or reject any and all submittals, to waive technical irregularities, to cancel this RFQ at any time, and to select the firm deemed most advantageous to the City. This RFQ does not obligate the City to enter into any contract.

SECTION 4 – DETAILED EVALUATION CRITERIA

4.1 Expertise in CMAR Work & Project Delivery Experience

- Provide examples of similar **Public Safety** projects completed or started within the last five (5) years with a construction budget of at least **$12,000,000**.
- Demonstrate understanding of the CMAR delivery method, ability to meet schedules and budgets, and knowledge of relevant North Carolina laws. Provide a description and contact information for each project.
- Accuracy of cost estimates vs. final bid results for the three (3) most recent CMAR projects with a budget of at least **$12,000,000**.
- Provide change order percentage relative to the original construction amount and a description of any litigation, mediation, arbitration, or open claims for each project.
- Provide initial and final GMP with substantial completion dates for example projects.

4.2 Relevant Project Type Experience

- Firm’s demonstrated experience with the construction of **Public Safety** projects.
- Recent **Public Safety** CMAR projects completed within the last five (5) years.
- Experience in pre-qualifying contractors and subcontractors with public safety construction experience.
- Firms approach to cost and quality management during design phases.

4.3 Personnel & Team Qualifications

- Qualifications of key personnel, along with the tenure at the firm, and the proposed team (project team).
- Availability and projected workload of the project team (describe your current workload in terms of project size, percent complete, and completion dates. Indicate the percentage of time that will be devoted to this project by each staff member).
- Experience in collaborative relationships with designers with contact information.
- Project experience and comparison of estimates with the range of bids for the three (3) most recent CM at Risk projects with a budget of at least **$12,000,000**.
- Approach to maximize contractor and subcontractor participation.

4.4 Business Qualifications & SLBE Participation

- Actual SLBE participation on the three (3) most recent CMAR projects of at least **$12,000,000**.
- Construction Manager's outreach program to encourage participation by SLBE-certified contractors and subcontractors, particularly local firms, and SLBE participation on the construction management of those projects. The City of Fayetteville carries an SLBE participation goal of **40%**for this project.
- Location of office and familiarity with the local area.
- Knowledge of local codes and ordinances.

4.5 Project Quality, Safety & Timeliness

- Approach to ensuring a safe project site.
- Current Safety performance record.
- Example of safety plan to be implemented.
- Approach to ensuring timeliness in project delivery.
- Record of meeting substantial completion contract requirements for CMAR projects for the three (3) most recent project completions of at least **$12,000,000**.
- Quality control philosophy.
- Project closeout and punch list approach.

SECTION 5 – SCOPE OF SERVICES

The City of Fayetteville is seeking a CMAR with the necessary resources, experience, and qualifications for the **Public Safety Answering Point (PSAP) 911 Call Center** project. The CMAR will provide services in two phases under a single GMP Amendment:

5.1 Pre-Construction Services

During the pre-construction phase, the CMAR shall provide comprehensive services throughout the design and bidding stages, including but not limited to:

- Prepare independent cost estimates at design milestones: **30% SD, 60% DD, 90% CD, and 100% CD**. The CMAR's cost model shall be independent of the architect's independent estimate.
- Conduct a constructability assessment during the Pre-Construction phase, suggesting cost efficient or value-enhancing strategies, and/or identify conflicts or deficiencies in design planning.

- Formulate a Critical Path Method schedule that outlines procurement methods, approvals, regulatory clearances, staging, construction, and project conclusion.
- Continuously revise and oversee project schedules to ensure alignment with the project's timeline.
- Collaborate with the project team to compile and forward all requisite permits and endorsements.
- Develop the schedule and manage the bidding process, prepare bid packages, prequalify subcontractors, advertise, and coordinate the review and analysis of bids for subcontractor packages. All steps of the bidding process must be conducted in compliance with applicable local, state, and federal laws.
- Deliver a single Guaranteed Maximum Price (GMP) proposal based on **90%** Design Development Documents, inclusive of trade bids, CMAR Fee, General Conditions (fixed lump sum), CMAR-GMP Contingency, and all project-related costs.

5.2 Construction Management Services

Upon City Council approval and execution of the GMP Amendment, the CMAR shall provide construction management services, including but not limited to:

- Working closely with the owners and project team to ensure adherence to quality standards, safety protocols, and alignment with plans.
- Deploying on-site personnel for construction oversight, organizing regular weekly meetings, and participating in monthly sessions with the project team.
- Developing and updating a comprehensive construction timeline, detailing sequencing, phases, traffic management, delivery schedules, inspections, tests, and occupancy plans.
- Developing and maintaining weekly/monthly project schedule updates.
- Establishing and managing a virtual project platform for submittals, requests for information, and change orders workflows.
- Developing and implementing a quality control plan.
- Developing and maintaining a site safety plan.
- Generating and submitting payment applications as required.
- Evaluating shop drawings, coordinating their approval with the project team, and ensuring the collection of as-built drawings during construction.
- Facilitating site walkthroughs, addressing and resolving punch list items, and overseeing the final inspection.
- Manage project close-out tasks, including commissioning of the building systems, assembly of guarantees, manuals, closeout documents, release of liens, record drawings, training sessions, regulatory approvals, and operations and maintenance (O&M) manuals. The CMAR will also review O&M to make sure it is complete with correct information.
- Receive, record, and satisfactorily address all warranty issues.

All work performed by the CMAR shall be consistent with applicable North Carolina statutes and local laws and regulations, including N.C. General Statutes § 143-64.31 et seq.

SECTION 6 – SUBMITTAL REQUIREMENTS

6.1 Required Content

The Statement of Qualifications (SOQ) shall include the following sections in the order listed:

1. Cover Letter

A signed cover letter on firm letterhead stating why your team is best qualified. Identify the firm's primary contact, address, phone, and email.

2. Company General Profile

Firm history, corporate structure, corporate officers, years in business, office locations, number of staff, services offered, and the specific office managing this project. Confirm a current North Carolina General Contractor License with an unlimited license limitation under N.C. Gen. Stat. § 87-10 (provide license number and limitation) and authorization to do business in North Carolina.

3. Company CMAR Experience

Examples of CMAR projects completed within the last five (5) years by the performing office. Do NOT include projects completed by personnel while at another firm. Include: project name, owner, location, type, value, initial and final GMP, completion dates, change order percentage, and owner reference contact.

4. Relevant Project Type Experience

Experience examples of **Public Safety** projects from the performing office. Minimum five (5) projects. Include client name, description, dates, delivery method, final cost, and current owner contact. Last five (5) years only; no projects from prior employment.

5. Proposed Project Team

Names, roles, and firm tenure for: Project Executive, Project Manager, Superintendent, Lead Estimator, and Scheduler. Indicate staff availability and current commitments. Provide a project organizational chart including subconsultants. Maximum one-page resume per key team member.

6. SLBE Certification & Outreach

Describe the firm's outreach program for SLBE participation, particularly local firms. The City of Fayetteville carries a goal of **40%** SLBE participation. Provide certification documentation and actual participation on three (3) most recent comparable CMAR projects.

7. Project Quality & Safety Record

Current EMR and OSHA recordable rates for the past three (3) years. Example site-specific safety plan. Approach to timeliness and quality control.

8. Financial Stability

(Submitted in a separately sealed envelope marked **"CONFIDENTIAL – DO NOT RELEASE PUBLICLY"** – excluded from the page count.) Attach an original letter from a surety company licensed in North Carolina verifying the firm's bonding capacity adequate for this project. **Note: Performance and Payment Bonds naming the City of Fayetteville as obligee are NOT required at SOQ submission; they are due within ten (10) days of GMP Amendment execution.**

6.2 Format Requirements

- SOQ package shall not exceed **30** pages (front and back = two pages). Cover letter, Table of Contents, section dividers, and one-page resumes are excluded from the page count.
- Submit a minimum of **5** hard copies printed on post-consumer recycled paper (at least 30%) and one (1) electronic copy (USB drive), clearly marked:

  "City of Fayetteville RFQ for 911 Call Center – CMAR"

- SOQs must be received by **November 19, 2026 at 2:00 PM ET** at:

  Kimberly Toon, Procurement Manager
  City of Fayetteville – City Hall
  433 Hay Street, Fayetteville, NC 28301

6.3 Submittal Checklist

Include this completed checklist as the first page of the SOQ submission package. SOQs submitted without this checklist may be deemed non-responsive.

✓	Required Submittal Item	Required?
	Cover Letter (signed, firm letterhead)	Yes
	Company General Profile (history, structure, NC license number, authorization)	Yes
	Company CMAR Experience – last five (5) years from the performing office	Yes
	Relevant Project Type Experience – minimum five (5) projects from the performing office	Yes
	Proposed Project Team & Organizational Chart	Yes
	Team Member Resumes (1-page max per member; excluded from page count)	Yes
	SLBE Certification & Outreach Plan	Yes
	Project Quality & Safety Record (EMR, OSHA rates, safety plan example)	Yes
	Financial Stability / Surety Bonding Capacity Letter (separate sealed "Confidential" envelope)	Yes

SECTION 7 – QUESTIONS, ADDENDA & COMMUNICATIONS

7.1 Questions

All questions must be submitted in writing by email to Kimberly Toon, Procurement Manager, at COFBiddingQuestions@FayettevilleNC.gov, no later than **October 29, 2026 at 5:00 PM ET.**

Firms are expressly prohibited from contacting any City of Fayetteville official or employee associated with this RFQ except as specified above. Violation is grounds for immediate disqualification.

7.2 Addenda

Any changes or clarifications will be issued as written addenda posted to https://www.fayettevillenc.gov/City-Departments/Finance/Purchasing/Bid-Opportunities. It is the sole responsibility of each firm to monitor this site. Failure to acknowledge all issued addenda may render the submittal non-responsive.

SECTION 8 – CONTRACT REQUIREMENTS, BONDS & INSURANCE

8.1 Contract Form

The selected CMAR will execute the City of Fayetteville's standard Construction Manager at Risk Agreement covering Pre-Construction Services and Construction Services under a single GMP Amendment. The contract template is subject to change; the City reserves the right to modify contract terms prior to execution. A draft CMAR contract is attached as Appendix B for reference.

8.2 GMP Amendment & Bonds

This project uses a single GMP Amendment. Commencement of Construction Services is contingent upon City Council approval of the GMP and execution of the GMP Amendment.

Within **ten (10) days** of executing the GMP Amendment, the selected CMAR shall deliver to the City Performance and Payment Bonds, each in the amount of one hundred percent (100%) of the GMP, **naming the City of Fayetteville as obligee**, executed by a surety company authorized to do business in North Carolina. Bond forms shall conform to N.C. General Statutes § 44A-33.

Performance and Payment Bonds are NOT required at the time of SOQ submission. Evidence of bonding capacity (surety letter) is required per Section 6.1(8).

8.3 Insurance Requirements

The selected CMAR and all subcontractors shall maintain insurance as required by applicable North Carolina law and as specified in the CMAR contract. All policies shall be issued by companies authorized to do business in North Carolina with an A.M. Best rating of A-VI or better. Minimum required coverages:

- **Commercial General Liability:** $2,000,000 per occurrence / $5,000,000 aggregate.
- **Commercial Automobile Liability:** $1,000,000 per occurrence.
- **Workers' Compensation Liability:** $1,000,000 as required by North Carolina Law.
- **Professional Liability:** $5,000,000 per occurrence and aggregate.
- **Pollution Legal Liability:** $5,000,000 per occurrence and aggregate.
- **Umbrella/Excess Liability:** $25,000,000 per occurrence and aggregate.
- **Builder's Risk (Construction Phase):** All-risk coverage for the full completed project value.

SECTION 9 – TERMS & CONDITIONS

9.1 General Conditions

- **The CMAR contract template attached as Appendix B is a draft and is subject to change.** The City reserves the right to modify contract terms prior to final execution. The final contract must be approved by City Council.

9.2 Conflicts of Interest & Ethics

(a) Statutory prohibitions. No City officer or employee who is involved in making or administering this contract may derive a direct benefit from it, and no such person may solicit or receive any gift, favor, reward, service, or promise of future employment in exchange for recommending, influencing, or attempting to influence the award of this contract. N.C. Gen. Stat. §§ 14-234 and 133-32. Violation is a Class 1 misdemeanor.

(b) Firm certification. By submitting a Statement of Qualifications, the submitting firm certifies that: (i) no City officer or employee, and no member of the immediate family of a City officer or employee, has a financial interest in the firm or in the outcome of this solicitation, except as disclosed in writing with the SOQ; (ii) the firm has not given, and will not give, any gift or favor prohibited by N.C. Gen. Stat. § 133-32 to any City officer or employee; and (iii) the SOQ was prepared independently and without collusion, consultation, or agreement with any other submitting firm as to content or the decision to submit.

(c) Organizational conflicts. The submitting firm shall disclose any current or prior business relationship with the Project Designer or any of its consultants; any ownership, parent, subsidiary, affiliate, or common-control relationship with a prospective first-tier subcontractor or supplier for this Project; and any engagement that would place the firm in a position of advising the City on a matter in which the firm holds a financial interest.

(d) Continuing obligation. The certifications and disclosures required by this Section are continuing representations. The firm shall notify the Procurement Manager in writing within ten (10) business days of any change.

(e) Effect of nondisclosure. Failure to make a required disclosure is grounds for rejection of the SOQ and, after award, for termination of the resulting contract for cause.

(f) City ethics policies. All submitting firms and their employees, agents, and subcontractors shall also comply with applicable City of Fayetteville ethics policies. Any actual or potential conflict of interest must be disclosed immediately.

(g) Required form. Each firm shall complete and submit the Conflict of Interest, Non-Collusion, and Ethics Certification in Appendix A.

9.3 Confidentiality & Public Records

All SOQs become the property of the City upon submission and are subject to the North Carolina Public Records Law (N.C. General Statutes § 132 et seq.) following the conclusion of the procurement process, except for information qualifying as a trade secret or other legally protected exemption.

9.4 Equal Opportunity

The City of Fayetteville is an Equal Opportunity Employer and does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, or any other characteristic protected by applicable law.

9.5 Applicable NC Law

The CMAR and all subcontractors shall comply with all applicable North Carolina statutes and local ordinances, including, but not limited to:

- **N.C. General Statutes § 143-64.31 et seq.** – Procurement of Architectural, Engineering, and Surveying Services (Mini-Brooks Act), governing qualifications-based selection.
- **N.C. General Statutes Chapter 143, Article 8** – Public Contracts.
- **N.C. General Statutes Chapter 87** – General Contractors Licensing Law.
- **N.C. General Statutes Chapter 133** – Public Works.
- **North Carolina State Building Code**, including all applicable building, accessibility, electrical, mechanical, plumbing, fire, and energy conservation codes.
- All applicable requirements of the **North Carolina Department of Labor (NCDOL)**, including occupational safety and health regulations.
- All applicable environmental regulations of the **North Carolina Department of Environmental Quality (NCDEQ)**.
- **N.C.G.S. § 143-128** – Separate specifications for public construction (single-prime/multiple-prime requirements and applicable exceptions).
- **N.C.G.S. § 143-128.1** – Construction management at risk contracts, including subcontractor prequalification, public advertisement and award of first-tier subcontracts, and the CMAR's fiduciary duty in handling and opening bids.
- **N.C.G.S. § 143-129** – Formal bidding requirements (where applicable to trade packages and procurement).
- **N.C.G.S. § 87-15** – Licensing requirements for contractors.
- N.C.G.S. § 143-135.8 – Prequalification of contractors and first-tier subcontractors.
- N.C.G.S. § 143-134.1 – Payment periods, interest on late payments, and retainage on public construction contracts.
- N.C.G.S. Chapter 44A, Article 3 – Payment and performance bonds on public construction contracts.
- N.C.G.S. Chapter 22C – Prompt payment to subcontractors.
- N.C.G.S. Chapter 87, Article 8A – Underground Damage Prevention (utility locates), as rewritten by S.L. 2025-21.
- All applicable City of Fayetteville ordinances, policies, permitting requirements, and development regulations.
- Any other applicable federal, state, or local laws governing public construction, procurement, employment, licensing, safety, environmental protection, and nondiscrimination.

9.6 Protest Procedures

Any firm wishing to protest this procurement shall submit a written protest to Kimberly Toon, Procurement Manager, City of Fayetteville, 433 Hay Street, Fayetteville, NC 28301, within **five**

(5) business days of the basis for the protest becoming known. Protests shall be processed in accordance with the City's adopted procurement procedures and applicable state law.

SECTION 10 – CONTACT INFORMATION & ISSUING AUTHORITY

10.1 Procurement Contact

Procurement Manager:	**Kimberly Toon, Procurement Manager**
Municipality:	City of Fayetteville, North Carolina
Mailing Address:	City Hall, 433 Hay Street, Fayetteville, NC 28301
Email:	KimberlyToon@FayettevilleNC.gov
Phone:	(910) 433-1942
Bid Opportunities:	https://www.fayettevillenc.gov/City-Departments/Finance/Purchasing/Bid-Opportunities

APPENDIX A

REFERENCE FORMS

Three (3) Reference Forms are provided below. Submitting firms shall complete one form per reference project and include completed forms in their SOQ package. Reference forms are excluded from the SOQ page count.

REFERENCE FORM 1 OF 3

City of Fayetteville – CMAR Request for Qualifications

Instructions: Complete one form per reference project. Reference contacts may be contacted by the Selection Committee to verify information. This form may be submitted with the SOQ package and is excluded from the page count.

SECTION A – SUBMITTING FIRM INFORMATION	
Firm Name:	
Office Location (City, State):	
Contact Person for this SOQ:	
Contact Phone:	
Contact Email:	
SECTION B – REFERENCE PROJECT INFORMATION	
Project Name:	
Project Type / Facility:	
Project Location (City, State):	
Owner / Client Name:	
Delivery Method:	
Initial GMP Amount ($):	
Final Contract Amount ($):	
Change Order % of GMP:	
Required Substantial Completion:	
Actual Substantial Completion:	
Brief Project Description:	

CMAR's Role on Project:	

SECTION C – OWNER / CLIENT REFERENCE CONTACT

Note: The reference contact must be an Owner/Client representative with direct knowledge of the CMAR's performance. Do not list CMAR personnel as references.

Reference Name:	
Title / Organization:	
Phone Number:	
Email Address:	
Best Time to Contact:	

SECTION D – PERFORMANCE RATINGS (Owner to Complete, if Pre-Distributed)

Rate the CMAR's performance (1 = Poor, 5 = Excellent):

Schedule adherence: 1 2 3 4 5
Budget management: 1 2 3 4 5
Quality of work: 1 2 3 4 5
Communication / responsiveness: 1 2 3 4 5
Would you hire this CMAR again? Yes / No / Maybe
Comments: _____

_____

SECTION E – FIRM CERTIFICATION

I certify that the information provided on this form is accurate and complete to the best of my knowledge.

Signature: _____ Date: _____
Printed Name: _____ Title: _____
Firm Name:

_____

REFERENCE FORM 2 OF 3

City of Fayetteville – CMAR Request for Qualifications

Instructions: Complete one form per reference project. Reference contacts may be contacted by the Selection Committee to verify information. This form may be submitted with the SOQ package and is excluded from the page count.

SECTION A – SUBMITTING FIRM INFORMATION	
Firm Name:	
Office Location (City, State):	
Contact Person for this SOQ:	
Contact Phone:	
Contact Email:	
SECTION B – REFERENCE PROJECT INFORMATION	
Project Name:	
Project Type / Facility:	
Project Location (City, State):	
Owner / Client Name:	
Delivery Method:	
Initial GMP Amount ($):	
Final Contract Amount ($):	
Change Order % of GMP:	
Required Substantial Completion:	
Actual Substantial Completion:	
Brief Project Description:	

CMAR's Role on Project:	

SECTION C – OWNER / CLIENT REFERENCE CONTACT

Note: The reference contact must be an Owner/Client representative with direct knowledge of the CMAR's performance. Do not list CMAR personnel as references.

Reference Name:	
Title / Organization:	
Phone Number:	
Email Address:	
Best Time to Contact:	

SECTION D – PERFORMANCE RATINGS (Owner to Complete, if Pre-Distributed)

Rate the CMAR's performance (1 = Poor, 5 = Excellent):

Schedule adherence: 1 2 3 4 5
Budget management: 1 2 3 4 5
Quality of work: 1 2 3 4 5
Communication / responsiveness: 1 2 3 4 5
Would you hire this CMAR again? Yes / No / Maybe
Comments: _____

_____

SECTION E – FIRM CERTIFICATION

I certify that the information provided on this form is accurate and complete to the best of my knowledge.

Signature: _____ Date: _____
Printed Name: _____ Title: _____
Firm Name:

_____

REFERENCE FORM 3 OF 3

City of Fayetteville – CMAR Request for Qualifications

Instructions: Complete one form per reference project. Reference contacts may be contacted by the Selection Committee to verify information. This form may be submitted with the SOQ package and is excluded from the page count.

SECTION A – SUBMITTING FIRM INFORMATION	
Firm Name:	
Office Location (City, State):	
Contact Person for this SOQ:	
Contact Phone:	
Contact Email:	
SECTION B – REFERENCE PROJECT INFORMATION	
Project Name:	
Project Type / Facility:	
Project Location (City, State):	
Owner / Client Name:	
Delivery Method:	
Initial GMP Amount ($):	
Final Contract Amount ($):	
Change Order % of GMP:	
Required Substantial Completion:	
Actual Substantial Completion:	
Brief Project Description:	

CMAR's Role on Project:	

SECTION C – OWNER / CLIENT REFERENCE CONTACT

Note: The reference contact must be an Owner/Client representative with direct knowledge of the CMAR's performance. Do not list CMAR personnel as references.

Reference Name:	
Title / Organization:	
Phone Number:	
Email Address:	
Best Time to Contact:	

SECTION D – PERFORMANCE RATINGS (Owner to Complete, if Pre-Distributed)

Rate the CMAR's performance (1 = Poor, 5 = Excellent):

Schedule adherence: 1 2 3 4 5
Budget management: 1 2 3 4 5
Quality of work: 1 2 3 4 5
Communication / responsiveness: 1 2 3 4 5
Would you hire this CMAR again? Yes / No / Maybe
Comments: _____

_____

SECTION E – FIRM CERTIFICATION

I certify that the information provided on this form is accurate and complete to the best of my knowledge.

Signature: _____ Date: _____
Printed Name: _____ Title: _____
Firm Name:

_____

CONFLICT OF INTEREST, NON-COLLUSION, AND ETHICS CERTIFICATION

City of Fayetteville – CMAR Request for Qualifications, RFQ No. COF1517015

Instructions: Complete this form, sign it through a person authorized to bind the firm, and include it in the SOQ package. This form is excluded from the SOQ page count. Failure to submit a completed form, or failure to make a required disclosure, may render the submittal non-responsive or the firm non-responsible.

Submitting Firm: _____

The undersigned, on behalf of the submitting firm, certifies as follows:

1. No City officer or employee, and no member of the immediate family of a City officer or employee, has a financial interest in the firm or in the outcome of this solicitation, except as disclosed below. N.C. Gen. Stat. § 14-234.

2. Neither the firm nor anyone acting on its behalf has given, offered, or promised any gift, favor, reward, service, or promise of future employment to any City officer or employee in connection with this solicitation. N.C. Gen. Stat. § 133-32.

3. This Statement of Qualifications was prepared independently and without collusion, consultation, or agreement with any other submitting firm as to content or the decision to submit.

4. The firm has disclosed below every current or prior business relationship with the Project Designer or any of its consultants, and every ownership, parent, subsidiary, affiliate, or common-control relationship with any prospective first-tier subcontractor or supplier for this Project.

5. The firm understands that these certifications are continuing representations and that it must notify the Procurement Manager in writing within ten (10) business days of any change.

Disclosures (attach additional pages if necessary):

_____

_____

_____

Check one: □ No disclosures. □ Disclosures are stated above or attached.

Signature: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B – DRAFT CMAR CONTRACT

This draft contract is provided for informational purposes only and is subject to change. The City of Fayetteville reserves the right to modify contract terms prior to final execution. The final contract requires City Council approval.

CITY OF FAYETTEVILLE, NORTH CAROLINA

CONSTRUCTION MANAGER AT RISK CONTRACT

FOR PRE-CONSTRUCTION AND CONSTRUCTION SERVICES

Project Name / Description:	_____
Site Address:	_____

City Department:	_____
CMAR Name:	_____
Pre-Construction Fee:	$_____
GMP (upon execution of GMP Amendment):	$_____
Funding Source:	2022 General Obligation Bond Proceeds / NC 911 State Fund / General Fund / Other
Davis-Bacon Act Applies:	Yes / No
Pre-Construction NTP Date:	_____
Projected GMP Amendment Date:	_____
Projected Substantial Completion:	_____

This Contract is made this _____day of _____, 20_____

by and between:_____**("Construction Manager at Risk" or "CMAR")** and **THE CITY OF FAYETTEVILLE ("City" or "Owner").**

RECITALS

WHEREAS, the City issued a Request for Qualifications ("RFQ") seeking a Construction Manager at Risk to provide professional construction management services during the design and construction of the Project; and

WHEREAS, the CMAR submitted a responsive Statement of Qualifications and was selected pursuant to N.C. Gen. Stat. § 143-64.31; and

WHEREAS, the City and CMAR desire to enter into this Contract to define their respective rights and obligations for pre-construction services and, contingent upon execution of a single GMP Amendment, for construction services;

NOW, THEREFORE, for the mutual covenants set forth herein, the City and CMAR agree as follows:

ARTICLE 1: DEFINITIONS

1.1 "City" or "Owner" means the City of Fayetteville, North Carolina. The Owner's Representative is: _____.

1.2 "Construction Manager at Risk" or "CMAR" means the firm identified on the cover page, acting as the City's fiduciary in handling and opening first-tier subcontractor bids pursuant to N.C. Gen. Stat. § 143-128.1(c).

1.3 "Project" means the total construction Work to be performed under this Contract as described in Attachment A.

1.4 "Project Designer" means the architect, engineer, or design professional(s) retained by the City to design the Project.

1.5 "Contract Documents" means this Contract, the RFQ and all attachments, the CMAR's Proposal, the GMP Amendment, all Attachments hereto, and all executed written amendments and change orders.

1.6 "Construction Documents" means the drawings, specifications, and other instruments prepared by the Project Designer defining the scope of the Work.

1.7 "Pre-Construction Phase" means the period commencing upon execution of this Contract and concluding upon execution of the GMP Amendment, during which the CMAR provides pre-construction services as defined in Article 3.

1.8 "Construction Phase" means the period commencing upon execution of the GMP Amendment and concluding upon Final Completion, during which the CMAR performs construction services.

1.9 "GMP" or "Guaranteed Maximum Price" means the maximum total cost to the City for the Work, including Cost of the Work, CMAR-GMP Contingency, General Conditions (fixed lump sum), and CMAR Fee, established pursuant to Article 4.

1.10 "GMP Amendment" means the single formal written amendment to this Contract, executed by both parties and approved by City Council, that establishes the GMP, construction schedule, and bonds and authorizes commencement of the Construction Phase. There shall be one (1) GMP Amendment for this Project.

1.11 "Cost of the Work" means all costs properly allocable to the Project as defined in Article 6.

1.12 "Total Construction Budget" means the maximum amount approved by City Council inclusive of GMP, Owner's Contingency, and all project-related costs.

1.13 "Subcontractor" means any general, mechanical, electrical, plumbing, or specialty contractor, supplier, or vendor with a direct contract with the CMAR for any portion of the Work.

1.14 "Substantial Completion" means the stage when the Work is sufficiently complete that the City can occupy and utilize the Project for its intended purpose, as certified by the Project Designer.

1.15 "Final Completion" means completion of all Work, satisfaction of all closeout requirements, and City acceptance.

1.16 "Change Order" means a written order signed by the CMAR, Project Designer, and City authorizing a change in Work, Contract Sum, or Contract Time after GMP Amendment execution.

1.17 "CMAR-GMP Contingency" means the contingency included within the GMP for CMAR's use to cover unanticipated costs not resulting in a change to the GMP, as described in Article 6.

1.18 "Owner's Contingency" means funds held by the City outside the GMP for Owner-directed scope changes and other costs not covered by the GMP.

1.19 "Cost Savings" means any amount by which the final approved GMP exceeds the sum of the actual Cost of the Work, the CMAR Fee, and the General Conditions lump sum, all of which is retained by the City pursuant to Article 6.3.

1.20 "General Conditions" means the fixed lump sum for direct on-site management, supervision, and field support costs during the Construction Phase, as described in Article 5.3.

1.21 "Pre-Construction Fee" means the fixed fee for Pre-Construction Phase services as set forth in Article 3.

1.22 "CMAR Fee" means the fixed fee for Construction Phase services as set forth in Article 5.

1.23 "Liquidated Damages" means the daily amount payable by the CMAR for each day of unexcused delay beyond required Substantial Completion, as set forth in Article 11.

1.24 "Key Personnel" means CMAR staff identified in Attachment C whose assignment requires City approval.

ARTICLE 2: GENERAL SCOPE AND CONTRACT STRUCTURE

2.1 This Contract is structured in two phases: Pre-Construction Services (Pre-Construction Phase) and Construction Services (Construction Phase). Pre-Construction Services commence upon Contract execution. Construction Services commence only upon execution of the single GMP Amendment. Both phases are governed by the terms set forth herein.

2.2 The CMAR shall act as the fiduciary of the City in handling and opening first-tier subcontractor bids as required by N.C. Gen. Stat. § 143-128.1(c), and shall otherwise act in the City's best interests at all times as a matter of contract.

2.3 The CMAR shall collaborate with the City and Project Designer as an integrated Project Team from design through Final Completion. The City's Owner's Representative is the final decision-making authority on all Project Team disputes, subject to Article 22.

2.4 The City is not obligated to proceed to the Construction Phase. Execution of the GMP Amendment is entirely at the City's discretion and subject to City Council approval of the GMP. If the City elects not to proceed, the CMAR's sole entitlement shall be the Pre-Construction Fee for services performed.

2.5 The CMAR shall not perform any act that would constitute the practice of architecture, engineering, or other licensed professional service.

ARTICLE 3: PRE-CONSTRUCTION SERVICES

3.1 Scope of Pre-Construction Services. During the Pre-Construction Phase, the CMAR shall provide the following services at each design milestone:

3.1.1 Constructability Reviews. At each design milestone in Attachment B, the CMAR shall submit written constructability review comments within twenty-one (21) days of receipt of each milestone submission.

3.1.2 Cost Estimating. The CMAR shall prepare detailed independent cost estimates at Schematic Design (SD), Design Development (DD), and Construction Document (CD) milestones, organized by trade, CSI division, and anticipated subcontract package.

3.1.3 Schedule Development. The CMAR shall develop and maintain a master project schedule incorporating all pre-construction milestones, design review periods, subcontractor pre-qualification, bidding, and construction phases.

3.1.4 Subcontractor Pre-Qualification. No later than sixty (60) days before submission of the final GMP, the CMAR shall commence pre-qualification of first-tier subcontractors for all major trade packages.

3.1.5 Budget Validation Checkpoints. At each design milestone, the CMAR shall submit a written Budget Status Report certifying: current estimated cost; whether the estimate is within the Total Construction Budget; identified risks; and recommended adjustments if the estimate exceeds budget.

3.1.6 MWBE Outreach. The CMAR shall conduct outreach to MWBE subcontractors consistent with the City's goals established in Article 24.

3.2 Pre-Construction Deliverables

The specific deliverables, formats, and due dates for each milestone are set forth in Attachment B. The City shall accept or reject each deliverable in writing within fifteen (15) days of receipt. Deliverables not accepted shall be revised and resubmitted within ten (10) days.

3.3 Pre-Construction Fee

The City shall pay the CMAR a fixed Pre-Construction Fee of $_____for all Pre-Construction Phase services, inclusive of all home office costs, personnel, travel, and overhead. Invoices submitted by the 1st of each month shall be paid within forty-five (45) days, pursuant to N.C. Gen. Stat. § 143-134.1.

3.4 Additional Pre-Construction Services

If the City requests services beyond Section 3.1 scope, the parties shall negotiate compensation in writing before such services commence.

3.5 Key Personnel During Pre-Construction

Key Personnel identified in Attachment C shall be assigned throughout the Pre-Construction Phase. The CMAR shall not reassign Key Personnel without the City's prior written consent. Replacement of Key Personnel requires thirty (30) days written notice and City approval of a proposed replacement of equal or greater qualifications.

3.6 Phase Transition Checkpoint

Before submission of the final GMP, the CMAR shall certify in writing: (a) all Pre-Construction Phase deliverables in Attachment B are complete and accepted; (b) no known unresolved claims from the Pre-Construction Phase; (c) the GMP represents the CMAR's best complete good-faith estimate; (d) subcontractor pre-qualification is complete; and (e) all Key Personnel for the Construction Phase are identified and available.

3.7 Pre-Construction Phase Termination

The City may terminate the Pre-Construction Phase at any time for any reason upon written notice. Upon termination: (a) the CMAR's sole entitlement is the pro-rata Pre-Construction Fee for services performed and accepted, plus documented direct wind-down costs; and (b) the CMAR shall deliver all work product, cost estimates, schedule data, subcontractor pre-

qualification files, and project documents to the City.

3.8 Transition to Construction Phase

The Pre-Construction Phase shall conclude and the Construction Phase shall commence upon the City's execution of the GMP Amendment. The GMP Amendment shall not be executed until: (a) the CMAR has submitted and the City has reviewed the final GMP; (b) City Council has approved the GMP; (c) the CMAR has delivered Performance and Payment Bonds naming the City of Fayetteville as obligee within ten (10) days of executing the GMP Amendment; and (d) all required insurance certificates have been approved by the City.

ARTICLE 4: GMP DEVELOPMENT AND APPROVAL PROCESS

4.1 GMP Submission

Following approval of the final Construction Documents, the CMAR shall develop and submit a single Guaranteed Maximum Price for the entire Project. The GMP submission shall include: (a) a complete list of all Construction Documents forming the GMP basis; (b) a detailed cost breakdown by trade, CSI division, and subcontract package; (c) a basis-of-estimate narrative; (d) a list of identified scope gaps and design allowances; (e) the proposed CMAR-GMP Contingency; (f) the fixed CMAR Fee; (g) the proposed General Conditions fixed lump sum, itemized by category; (h) any pre-bid certified bid tabulations; (i) a Construction Phase schedule; and (j) the proposed Performance and Payment Bond amounts.

4.2 City's Review Period

The City, with assistance from the Project Designer, shall have thirty (30) days following receipt of the complete GMP submission to review, accept, reject, or request revision.

4.3 GMP Negotiation

If the GMP exceeds the Total Construction Budget or the City identifies concerns, the parties shall negotiate in good faith. The CMAR shall work with the City and Project Designer to identify scope adjustments or value engineering without additional compensation.

4.4 City's Right to Reject

If the parties cannot reach GMP agreement within forty-five (45) days of the City's initial rejection, either party may terminate this Contract. Upon termination, the CMAR receives the pro-rata Pre-Construction Fee for services performed but has no further entitlement.

4.5 GMP Amendment

Upon City Council approval, the parties shall execute the GMP Amendment (Attachment D). The GMP Amendment shall: (a) identify the approved GMP amount; (b) incorporate the construction schedule; (c) confirm the fixed CMAR Fee, General Conditions lump sum, and CMAR-GMP Contingency; (d) establish Substantial Completion and Final Completion dates; (e) set Liquidated Damages per Article 11; and (f) list all Construction Documents forming the GMP basis.

4.6 Bonds Upon GMP Execution

Within ten (10) days of executing the GMP Amendment, the CMAR shall deliver to the City Performance and Payment Bonds each in the amount of one hundred percent (100%) of the GMP, naming the City of Fayetteville as obligee, executed by a surety company authorized to do business in North Carolina with an A.M. Best rating of A- or better. Bond forms shall conform to N.C. Gen. Stat. § 44A-33.

4.7 GMP Adjustment

The GMP shall be adjusted only by duly executed Change Order. No adjustment shall be made for conflicts that the CMAR, in the exercise of professional construction management judgment, should have identified during pre-construction constructability reviews. Such costs shall be addressed through the CMAR-GMP Contingency.

ARTICLE 5: CMAR FEE AND GENERAL CONDITIONS

5.1 CMAR Fee

The CMAR Fee for Construction Phase services shall not exceed 3% of the Cost of the Work and CMAR-GMP Contingency, as established in the GMP Amendment. The CMAR Fee is inclusive of all home office costs, officers' compensation, home office support staff, overhead, and profit. Upon execution of the GMP Amendment, the CMAR Fee shall be converted to a fixed lump sum included in the GMP.

5.2 General Conditions – Fixed Lump Sum

The General Conditions shall be established as a fixed lump sum amount in the GMP Amendment. The CMAR shall receive the General Conditions lump sum regardless of actual General Conditions costs incurred, provided the CMAR performs all required on-site management and field support services. General Conditions shall include, but not be limited to:

- Mobilization and demobilization
- On-site field personnel directly and full-time assigned to the Project (Project Manager, Superintendent(s), Project Engineer(s), Field Administrative Staff)
- Temporary facilities, field offices, and utilities
- Safety program, safety materials, and on-site safety personnel
- Site security and daily cleanup
- Surveys and layout services; progress photography
- Performance and Payment Bonds
- Project-specific liability insurance and Builder's Risk Insurance
- Permits (fees paid directly by City unless directed otherwise)
- Close-out and demobilization

General Conditions shall not include any home office costs or items included in the CMAR Fee. The General Conditions lump sum shall not be adjusted except by Owner-directed Change Order extending the construction duration.

5.3 General Conditions Savings

Because General Conditions are a fixed lump sum, the CMAR shall be paid the full lump sum upon complete performance of the required on-site management and field support services, regardless of the CMAR's actual General Conditions costs. There is no shared-savings allocation under this Contract (see Article 6.3).

5.4 Retainage on Fee

No retainage shall be withheld on the CMAR Fee, General Conditions lump sum, bonds, or insurance. Retainage as described in Article 16 applies only to Cost of the Work (subcontract costs).

ARTICLE 6: CONTINGENCY AND COST SAVINGS

6.1 Owner's Construction Contingency

The City shall maintain an Owner's Construction Contingency outside the GMP, funded one hundred percent (100%) by the City, for: (a) Owner-directed scope changes; (b) design errors not reasonably detectable during pre-construction review; and (c) other Owner-initiated costs. Expenditure requires written authorization from the Owner's Representative and shall be processed as a Change Order. The CMAR shall have no claim to, or interest in, any unexpended portion of the Owner's Construction Contingency, which shall be retained solely by the City.

6.2 CMAR-GMP Contingency

The GMP shall include a CMAR-GMP Contingency established at a target of three percent (3.0%) of the Cost of the Work and General Conditions lump sum and in no event exceeding four percent (4.0%) of that amount, for unanticipated costs not constituting Owner-directed changes. The CMAR-GMP Contingency may be applied to Cost of the Work items without a formal Change Order, provided the CMAR notifies the City and Project Designer in writing prior to each application. Cost overruns in excess of the CMAR-GMP Contingency shall be borne solely by the CMAR.

6.3 Cost Savings Retained by the City

The City's funding for this Project includes North Carolina 911 Fund proceeds, which may be used only to pay actual, eligible Project costs and may not be distributed to the CMAR as shared savings, an incentive, a bonus, or any similar payment. Accordingly, there shall be no shared-savings allocation under this Agreement. Upon Final Completion, any amount by which the final approved GMP exceeds the sum of the actual Cost of the Work, the CMAR Fee, and the General Conditions lump sum ("Cost Savings") shall be retained solely by the City. The CMAR shall have no claim to, or interest in, any Cost Savings.

The CMAR's total compensation under this Agreement is limited to the actual Cost of the Work properly incurred, plus the CMAR Fee and the fixed General Conditions lump sum, and in no event shall exceed the GMP. Final payment is subject to: (a) Substantial Completion achieved on or before the required date; (b) no unresolved warranty claims; (c) no open Change Order disputes or outstanding City claims; (d) all closeout requirements satisfied; and (e) the City's final audit confirming actual cost figures.

6.4 Unused CMAR-GMP Contingency

The unused CMAR-GMP Contingency is not subject to any savings split. Upon Final Completion, one hundred percent (100%) of the unused CMAR-GMP Contingency shall be retained by the City. The CMAR shall have no claim to, or interest in, any unexpended portion of the CMAR-GMP Contingency.

ARTICLE 7: SUBCONTRACTS AND SUBCONTRACTORS

7.1 The CMAR shall publicly advertise all subcontract packages as required by N.C. Gen. Stat. § 143-128.1(c), which directs public advertisement in the manner prescribed by N.C. Gen. Stat. § 143-129. Separate bid packages shall be prepared for general construction, electrical, mechanical, plumbing, and fire protection. All bids shall be opened publicly and shall constitute public records under N.C. Gen. Stat. Chapter 132.

7.2 The CMAR shall award each subcontract to the lowest responsible, responsive bidder. Prior to award, the CMAR shall submit certified bid tabulations, copies of all bids, SLBE utilization documentation, and the CMAR's written recommendation. No award shall be made without the City's written concurrence.

7.3 The CMAR may perform a portion of the Work only if both conditions in N.C. Gen. Stat. § 143-128.1(c) are satisfied: (a) bidding produces no responsible, responsive bidder for that portion of the Work, the lowest responsible, responsive bidder will not execute a contract for the bid portion of the Work, or a Subcontractor defaults and a prequalified replacement cannot be obtained in a timely manner; and (b) the City approves the CMAR's performance of that Work in writing. Self-performance exceeding $100,000 on any single package additionally requires City Council approval.

7.4 The CMAR shall require Performance and Payment Bonds from each Subcontractor for subcontracts exceeding $300,000, or as otherwise required by the City.

7.5 Subcontractor Flow-Down Requirements. All Subcontractors shall be bound to the CMAR by subcontract terms consistent with and incorporating all applicable Contract Document obligations. The CMAR shall include in each and every subcontract the following flow-down provisions:

- Flow-Down of Contract Obligations. Each subcontract shall incorporate by reference and flow down to the Subcontractor all applicable obligations, requirements, and restrictions of this Contract, including all terms of the GMP Amendment, City's right to inspect and audit Subcontractor records, quality control requirements, safety requirements, warranty obligations, and indemnification requirements.
- City's Right to Inspect and Audit. The City and authorized representatives shall have the right to inspect, audit, and copy any books, records, invoices, payroll records, and other data maintained by Subcontractors in connection with the Work, at any time during and for five (5) years after Final Completion.
- SLBE Requirements. Each subcontract shall require the Subcontractor to comply with all applicable Small Local Business Enterprise participation requirements, reporting obligations, and E-Verify requirements as set forth in this Contract and City policy.
- Prompt Payment. The CMAR shall pay each Subcontractor within seven (7) days of the CMAR's receipt of payment from the City for that Subcontractor's work, pursuant to N.C. Gen. Stat. § 143-134.1. Retainage withheld from Subcontractors shall not exceed the retainage withheld by the City on account of that Subcontractor's work. Interest on late payments accrues at twelve percent (12%) per annum from the eighth day.
- Safety and Environmental Compliance. Each subcontract shall require the Subcontractor to comply with all applicable OSHA regulations, N.C. Department of Labor requirements, and the CMAR's site safety plan.
- Warranty Flow-Down. Each subcontract shall require the Subcontractor to provide a minimum twelve (12) month warranty on all materials and workmanship from the date of Substantial Completion, with extended warranties as required by the Construction Documents.
- North Carolina Statutory Compliance. Each subcontract shall require the Subcontractor to comply with all applicable North Carolina statutes, including contractor licensing, lien law, workers' compensation, E-Verify (N.C. Gen. Stat. Chapter 64, Article 2), and environmental regulations.

- Insurance Requirements. Each Subcontractor shall maintain Commercial General Liability of at least $2,000,000 per occurrence / $5,000,000 aggregate, Commercial Auto of $1,000,000, and Workers' Compensation as required by law. The City of Fayetteville shall be named as an additional insured on each Subcontractor's CGL policy.

- Contingent Assignment of Subcontracts. Each subcontract is hereby conditionally assigned to the City, becoming effective only upon termination of this Contract by the City for cause and the City's written acceptance, subject to prior rights of the surety.
- No Damages for Delay. Each subcontract shall include appropriate limitations on damages for delay consistent with this Contract.
- City's Right to Approve Changes. No subcontract shall be materially modified or terminated by the CMAR without City approval where such modification or termination affects the GMP, Contract Time, or quality of the Work.
- Non-Disclosure. Subcontractors shall treat all City data, designs, plans, and project information as confidential and shall not disclose such information to third parties without the City's prior written consent.

7.6 Upon completion of all Subcontractor contracts, the CMAR shall deliver to the City copies of all subcontracts, lien waivers, and affidavits from Subcontractors confirming full payment.

7.7 Subcontractor Prequalification. The CMAR shall prequalify and accept bids from first-tier Subcontractors for all construction Work in accordance with N.C. Gen. Stat. § 143-128.1(c), using the prequalification process determined by the City under N.C. Gen. Stat. § 143-135.8. The City and the CMAR shall jointly develop the assessment tool and criteria for this Project, which shall include the prequalification scoring values and the minimum score required for prequalification. The assessment tool, criteria, scoring values, and minimum required score shall be established and made available to prospective Subcontractors before any trade package is advertised. A Subcontractor denied prequalification shall be given written notice of the reasons and an opportunity to respond as provided in the City's prequalification policy.

ARTICLE 8: KEY PERSONNEL AND CONDUCT

8.1 Key Personnel identified in Attachment C shall be assigned for the duration of specified phases. The CMAR shall not reassign, replace, or remove Key Personnel without the City's prior written consent. Replacement requires thirty (30) days advance notice and City approval.

8.2 The City may require the CMAR to remove any employee or Subcontractor employee from the Project for incompetence, carelessness, unsafe practices, or misconduct within forty-eight (48) hours of written notice.

8.3 The CMAR, employees, Subcontractors, and their employees shall comply with all City conduct standards, including: no firearms or explosives on City property; no use of alcohol or controlled substances; no smoking in tobacco-free areas; no solicitation on City property.

ARTICLE 9: TECHNOLOGY, DATA, AND PROJECT MANAGEMENT SYSTEMS

9.1 The CMAR shall use a City-approved project management platform (such as Procore) for document management, RFI tracking, submittal logging, change order management, and schedule maintenance. All project data is the property of the City. The CMAR shall configure all platforms to allow City real-time read access throughout the Project.

9.2 Upon Final Completion or earlier termination, the CMAR shall provide the City with a complete export of all project data within thirty (30) days and shall maintain all project records for a minimum of five (5) years after Final Completion.

ARTICLE 10: INSURANCE REQUIREMENTS

The CMAR shall procure and maintain the following insurance from companies authorized in North Carolina with an A.M. Best rating of A-VI or higher. All policies shall contain a waiver of subrogation in favor of the City and designate the City of Fayetteville as an additional insured (except Workers' Compensation). All policies shall be primary and non-contributing. The CMAR shall provide thirty (30) days advance written notice of cancellation or material change.

10.1 **COMMERCIAL GENERAL LIABILITY:** $**2,000,000** per occurrence / $**5,000,000** aggregate, including products and completed operations maintained for six (6) years after Final Completion.

10.2 **COMMERCIAL AUTOMOBILE LIABILITY:** covering vehicles owned, and non-owned vehicles used by the Construction Manager with policy limits of not less than One Million Dollars ($1,000,000) per accident for bodily injury, death of any person, and property damage arising out of the ownership, maintenance and use of those motor vehicles, along with any other statutorily required automobile coverage.

10.3 **WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY:** Workers' Compensation at statutory limits and Employers Liability with policy limits not less than one Million Dollars ($1,000,000) policy limit.

10.4 **PROFESSIONAL LIABILITY (PRE-CONSTRUCTION PHASE):** covering negligent acts, errors and omissions in the performance of professional services, with policy limits of not less than Five Million Dollars **($5,000,000)** per claim and Five Million Dollars ($5,000,000) in the aggregate, with six (6) year extended reporting period.

10.5 **POLLUTION LEGAL LIABILITY: $5,000,000** per occurrence and aggregate.

10.6 **UMBRELLA/EXCESS LIABILITY:** Twenty-Five Million Dollars ($**25,000,000)** per occurrence and aggregate, following form of underlying policies.

10.7 **BUILDER'S RISK (CONSTRUCTION PHASE):** Unless otherwise specified in the solicitation or Contract Documents, the Contractor shall procure and maintain Builder's Risk insurance when required by the City. Builder's Risk shall be required for new construction, building additions or expansions, major renovations, and other projects where the City determines there is a significant risk of loss or damage to the Work. For minor renovations, repairs, routine maintenance, demolition-only work, or other lower-risk activities, Builder's Risk shall be required only when specifically identified by the City.

- **Coverage Amount.** When Builder's Risk is required, coverage shall be written on a replacement-cost basis in an amount equal to one hundred percent (100%) of the full replacement value of the Work, unless a different amount is stated in the Contract Documents or approved in writing by the City.

- **Coverage Form and Property Covered.** Coverage shall be written on a Special Form (all-risk) basis, subject to standard market exclusions, and shall include the Work in progress and materials and equipment intended for incorporation into the Work.

Coverage shall apply, as applicable, while covered property is located at the Project site, temporarily stored off-site, or in transit.

- **Insurance Carrier Rating.** Builder's Risk insurance shall be provided by an insurance carrier with a minimum A rating.
- **Additional Perils and Project-Specific Coverage.** Coverage shall include flood, windstorm, water intrusion, and temporary structures, earthquake, and earth movement, where commercially available. The City reserves the right to require soft-cost, delay-in-completion, or other project-specific coverage when warranted by the Project's size, location, financing, operational requirements, or risk characteristics.
- **Existing City-Owned Structures.** For renovations or additions involving an existing City-owned structure, the City shall determine whether existing-property coverage is required. If required, the minimum limit shall be equal to the estimated replacement value of the affected structure or such other amount stated in the Contract Documents.
- **Insured Parties.** The City, Contractor, and applicable subcontractors shall be included as Named Insureds, Additional Named Insureds, or Loss Payees, as appropriate to the policy form and the respective interests of the parties.
- **Deductibles.** The Contractor shall be responsible for applicable deductibles unless otherwise stated in the Contract Documents. Deductibles exceeding $25,000, or another amount established by the City, shall require prior written approval by the City.
- **Waiver of Subrogation.** A waiver of subrogation in favor of the City shall be provided to the extent available and permitted by the applicable policy.
- **Evidence and Duration of Coverage.** Evidence of Builder's Risk coverage shall be provided prior to commencement of Work or delivery of materials to the Project site. Coverage shall remain in effect until Substantial Completion and acceptance of the Work by the City, unless otherwise approved in writing by the City.
- **City Adjustment.** The City reserves the right, based on the specific scope, value, location, and risk characteristics of a Project, to require Builder's Risk coverage where it would otherwise not be required, waive the requirement where appropriate, permit the City or another party to place the coverage, or establish additional or different coverage requirements in the solicitation or Contract Documents.

ARTICLE 11: TIME OF COMPLETION AND LIQUIDATED DAMAGES

11.1 The Construction Phase schedule and all milestones are established in the GMP Amendment. Time is of the essence.

11.2 Extensions of Time may be granted for: (a) acts or omissions of the City or Project Designer; (b) Owner-directed changes; (c) unusually severe weather not reasonably anticipated (based on 20-year NOAA average); (d) force majeure events; (e) labor disputes at the Project site beyond CMAR's control; or (f) government-ordered work stoppages. Time extension requests must be submitted in writing within twenty-one (21) days of the delay event. Failure to provide timely notice constitutes a waiver.

11.3 Liquidated Damages. If the CMAR fails to achieve Substantial Completion by the required date, the CMAR shall pay the City $4000 per calendar day for each day beyond the required completion date. The CMAR shall not use the CMAR-GMP Contingency to pay liquidated damages.

ARTICLE 12: CONSTRUCTION SUPERVISION AND SCHEDULE

12.1 The CMAR shall maintain full-time on-site staff adequate to coordinate and supervise all subcontractor work throughout the Construction Phase.

12.2 Within fifteen (15) days of the Construction Phase Notice to Proceed, the CMAR shall submit a detailed CPM schedule using Primavera P6, Microsoft Project, or City-approved equivalent, showing all activities, critical path, major milestones, long-lead procurement, required submittals, and inspection dates.

12.3 The CMAR shall submit an updated schedule monthly with each pay application and shall conduct weekly progress meetings at the Project site, distributing minutes within three (3) business days.

12.4 Underground Damage Prevention. Before any excavation or demolition, the CMAR shall comply with N.C. Gen. Stat. Chapter 87, Article 8A, including notice to the Notification Center, marking of the proposed area of excavation, receipt of a positive response for each affected operator, hand exposure of facilities within the tolerance zone, and maintenance of marks throughout the Work. The CMAR shall immediately notify the affected operator and the City of any contact with or damage to an underground facility, and shall bear the cost of repair of any damage caused by its failure to comply. This obligation flows down to every Subcontractor performing excavation or demolition.

ARTICLE 13: SUBMITTALS, SHOP DRAWINGS, AND RFIs

13.1 The CMAR shall review and stamp all shop drawings and submittals before forwarding to the Project Designer. The Project Designer shall be allowed fifteen (15) business days to review properly submitted and complete submittals.

13.2 The CMAR shall maintain an RFI log and submit an aging report at each weekly progress meeting. RFIs with cost or time impact shall be immediately communicated to the City.

ARTICLE 14: WARRANTY AND GUARANTEE

14.1 The CMAR unconditionally warrants all Work is free from defects in materials and workmanship and conforms to the Contract Documents for twelve (12) months from the date of Substantial Completion.

14.2 Warranty Response Times: (a) Life-Safety / Emergency Failures: respond within twenty-four (24) hours, commence corrective work immediately; (b) Significant Operational Failures: respond within seventy-two (72) hours, commence corrective work within seven (7) days; (c) Non-Urgent Defects: respond within five (5) business days, complete corrective work within thirty (30) days.

14.3 If the CMAR fails to respond within the timeframes above, the City may perform corrective work and charge the CMAR for all costs plus a fifteen percent (15%) administrative surcharge.

ARTICLE 15: SUBSTANTIAL COMPLETION AND PROJECT CLOSEOUT

15.1 Prior to Final Completion, the CMAR shall deliver to the City: (a) As-Built Drawings in CAD and PDF format; (b) O&M Manuals (3 hard copies + electronic); (c) minimum four (4) hours of hands-on training for City personnel; (d) all keys and access devices; (e) specified spare parts and attic stock; (f) Warranty Matrix; (g) final lien waivers from all Subcontractors; (h) notarized payment affidavit; (i) Certificates of Occupancy; (j) final SLBE utilization report; and (k) Consent of Surety to Final Payment.

ARTICLE 16: PAYMENT PROCEDURES

16.1 The CMAR shall submit Applications for Payment by the 21st of each month, including: updated Schedule of Values; NC Sales Tax Affidavit; waivers of lien from Subcontractors; SLBE utilization report; updated CPM schedule; and all other required documentation.

16.2 The City shall make payment within forty-five (45) days pursuant to N.C. Gen. Stat. § 143-134.1. Interest shall accrue on late payments at twelve percent (12%) per annum.

16.3 Retainage. The City shall retain five percent (5%) of each progress payment attributable to Cost of the Work (subcontract costs). No retainage shall be held on the CMAR Fee, General Conditions lump sum, insurance, or bonds. Retainage shall be administered in accordance with N.C. Gen. Stat. § 143-134.1. The City may retain up to five percent (5%) until the Project is fifty percent (50%) complete; thereafter, if the CMAR's performance is satisfactory, no additional retainage shall be withheld. The City shall release retainage on a line-item basis for any early-finishing trade that completes one hundred percent (100%) of its Work before the Project is fifty percent (50%) complete. Upon Substantial Completion or beneficial occupancy, the City shall release all remaining retainage except an amount not to exceed two and one-half (2.5) times the value of the remaining Work.

16.4 Final Payment. Final payment shall be made within forty-five (45) days after Final Completion, receipt of all closeout documentation, the City's final audit, and confirmation of the final Cost of the Work and any Cost Savings retained by the City under Article 6.3.

16.5 Open-Book Audits. The City may conduct open-book audits of General Conditions costs, CMAR-GMP Contingency expenditures, and Cost of the Work at any time. The CMAR shall provide access to all relevant cost records within five (5) business days.

ARTICLE 17: CHANGES IN THE WORK

17.1 No changes shall be performed without written authorization from the City. Pricing Methods: (a) lump sum preferred; (b) unit prices; (c) cost plus a maximum mark-up of fifteen percent (15%) for CMAR's own work and fifteen percent (15%) by Subcontractors plus ten percent (10%) by the CMAR on Subcontractor costs.

17.2 In the absence of Change Order agreement, the City may issue a Construction Change Directive (CCD). The CMAR shall proceed with CCD work while reserving rights to claim an equitable adjustment under Article 22.

17.3 Deductive Change Orders: the CMAR shall deduct no less than five percent (5%) profit (but no overhead) for Subcontractors. All subcontract savings from scope reductions revert to the City in full.

ARTICLE 18: QUALITY CONTROL AND INSPECTIONS

18.1 The CMAR shall establish and maintain a formal Quality Control Program approved by the City and Project Designer before construction commences. The City and its representatives shall have access to the Work at all times for inspection. No Work required to be inspected shall

be covered without required inspection and approval.

ARTICLE 19: SUSPENSION OF WORK

19.1 The City may suspend all or any portion of the Work by written notice. If suspension not caused by the CMAR's fault exceeds thirty (30) consecutive days, the CMAR may be entitled to a Change Order adjusting the GMP and Contract Time.

ARTICLE 20: TERMINATION FOR CONVENIENCE

20.1 The City may terminate this Contract, in whole or in part, at any time for its convenience upon not less than ten (10) days written notice. Upon termination for convenience, the CMAR shall be entitled to payment for: all Work completed and accepted; irrevocably committed materials; documented demobilization costs; subcontract settlement costs; and reasonable profit on Work performed but not on unperformed work.

ARTICLE 21: TERMINATION FOR CAUSE

21.1 The City may terminate for cause if the CMAR: (a) fails to maintain adequate progress; (b) abandons the Work; (c) fails to comply with any material term; (d) becomes insolvent or bankrupt; or (e) anticipatorily repudiates its obligations. Before terminating, the City shall provide written notice with a ten (10) calendar day cure period.

21.2 If it is later determined the termination for cause was improper, it shall be converted to a Termination for Convenience, and the CMAR's sole remedy shall be payment under Article 20.

ARTICLE 22: CLAIMS AND DISPUTE RESOLUTION

22.1 Claims Notice. Any claim for adjustment of the GMP or Contract Time must be submitted in writing within twenty-one (21) days after the event giving rise to the claim. Failure to provide timely notice constitutes a waiver.

22.2 Mediation. If the parties cannot resolve a dispute through negotiation, either party may request non-binding mediation in Cumberland County, North Carolina. Mediation is a condition precedent to litigation. The parties shall share mediation costs equally.

22.3 Litigation. Disputes shall be resolved in the General Court of Justice of North Carolina, Superior Court Division, Cumberland County (Fourteenth Judicial District). North Carolina law shall govern.

22.4 Nothing in this Contract constitutes a waiver of the City's governmental immunity under North Carolina law.

22.5 The CMAR shall continue to perform the Work diligently during pendency of any claim or dispute. Failure to continue performance may constitute a material breach.

ARTICLE 23: REGULATORY COMPLIANCE

23.1 The CMAR warrants it holds a valid North Carolina General Contractor License with an unlimited license limitation under N.C. Gen. Stat. § 87-10 and shall maintain it in good standing throughout the Contract.

23.2 The CMAR shall obtain all required permits. All Work shall comply with the North Carolina State Building Code, applicable local codes, and all applicable regulations.

23.3 E-Verify. The CMAR shall comply with N.C. Gen. Stat. Chapter 64, Article 2, and shall require all Subcontractors to do the same.

23.4 Iran and Israel Certifications. The CMAR certifies it is not identified on the Final Divestment List or Boycott of Israel list pursuant to N.C.G.S. §§ 147-86.58 and 147-86.81, and that it is not ineligible to contract with the City under N.C.G.S. §§ 147-86.60 and 147-86.82. The CMAR shall not use any Subcontractor identified on either list.

23.5 If this Contract is funded in whole or in part with federal funds, the CMAR shall comply with all applicable federal requirements identified in the applicable federal grant or award.

ARTICLE 24: SLBE PARTICIPATION

24.1 The CMAR shall comply with the City of Fayetteville's Small Local Business Enterprise (SLBE) program. The City sets no minority or women business enterprise goal for this Project; N.C. Gen. Stat. §§ 143-128.2, 143-128.3, and 143-128.4 were repealed by S.L. 2026-41. Stated participation goal: SLBE: 40% of the Cost of the Work.

24.2 The CMAR shall make and document good faith efforts to recruit and select small business entities as required by N.C. Gen. Stat. § 143-128.1 at each stage of subcontractor bidding and award, and shall submit SLBE utilization reports with each monthly pay application.

24.3 The CMAR shall not terminate or substitute an SLBE firm listed in its proposal without the City's prior written consent.

ARTICLE 25: GENERAL PROVISIONS

25.1 Governing Law. North Carolina law governs.

25.2 Venue. Cumberland County Superior Court (Fourteenth Judicial District) or U.S. District Court for the Eastern District of North Carolina for federal matters.

25.3 Force Majeure. Neither party shall be in default if performance is prevented by acts of war, nuclear explosion, earthquake, hurricane, tornado, or other catastrophic natural event. Economic conditions, supply chain disruptions, or cost increases shall not constitute force majeure.

25.4 Non-Appropriation. The City's payment obligations are contingent upon appropriation of sufficient funds by City Council. If funds are not appropriated, this Contract shall automatically terminate upon written notice, without penalty to the City.

25.5 Independent Contractor. The CMAR is an independent contractor and is not an employee, agent, or partner of the City.

25.6 No Assignment. The CMAR shall not assign this Contract or any portion thereof without the City's prior written consent.

25.7 Amendment. All amendments shall be in writing and signed by authorized representatives of both parties.

25.8 Entire Agreement. This Contract, together with all Attachments and the GMP Amendment, constitutes the entire agreement of the parties.

25.9 Survival. Warranty, indemnification, audit rights, confidentiality, and record-keeping obligations survive termination or expiration.

25.10 Notices. All notices shall be in writing delivered by personal delivery, certified mail (return receipt requested), or nationally recognized overnight courier.

If to City: City of Fayetteville
City Manager's Office,
P.O. Box 1746,
Fayetteville, NC 28302

If to CMAR: _____

_____

_____

ARTICLE 26: CONFLICT OF INTEREST AND ETHICS

26.1 Statutory Prohibitions. No City officer or employee who is involved in making or administering this Contract may derive a direct benefit from it, and no such person may solicit or receive any gift, favor, reward, service, or promise of future employment in exchange for recommending, influencing, or attempting to influence the award or administration of this Contract. N.C. Gen. Stat. §§ 14-234 and 133-32. The CMAR shall not offer or provide any such gift, favor, reward, service, or promise, and shall flow this prohibition down to every Subcontractor and supplier.

26.2 CMAR Warranty. The CMAR warrants that no City officer or employee involved in making or administering this Contract, and no member of the immediate family of any such person, holds a financial interest in the CMAR or in this Contract, except as disclosed in writing to the City and accepted by the City before execution.

26.3 Bid-Package Disclosure. Before soliciting bids for each trade package, the CMAR shall disclose to the City in writing any ownership, parent, subsidiary, affiliate, or common-control relationship between the CMAR and any prospective bidder on that package, and any financial interest the CMAR holds in a supplier whose product is specified. The CMAR shall not participate in the evaluation or recommendation of any bid as to which it has such a relationship or interest.

26.4 Fiduciary Handling of Bids. The disclosure obligations in this Article are in addition to, and do not limit, the CMAR's duty under N.C. Gen. Stat. § 143-128.1(c) to act as the fiduciary of the City in handling and opening first-tier Subcontractor bids.

26.5 Continuing Obligation. The warranties and disclosures required by this Article are continuing. The CMAR shall notify the City in writing within ten (10) business days of any change.

26.6 Remedy. An undisclosed conflict of interest is a material breach of this Contract. The City may reject the affected bid package, require rebidding at the CMAR's cost, and terminate this Contract for cause under Article 21.

ARTICLE 27: INDEMNIFICATION

27.1 Indemnity. To the extent permitted by N.C. Gen. Stat. § 22B-1, the CMAR shall indemnify, defend, and hold harmless the City and its officers, employees, and agents from and against all claims, damages, losses, and expenses, including reasonable attorneys' fees, arising out of or resulting from performance of the Work, but only to the extent caused by the negligent or wrongful act or omission of the CMAR, a Subcontractor, or anyone directly or indirectly employed by them or anyone for whose acts they may be liable.

27.2 Statutory Limitation. Consistent with N.C. Gen. Stat. § 22B-1, nothing in this Contract requires the CMAR to indemnify or hold harmless the City against liability for damage arising out of bodily injury to persons or damage to property proximately caused by or resulting from the negligence, in whole or in part, of the City, its officers, employees, or agents. Any provision purporting to require such indemnity is void to that extent and shall be read as limited accordingly.

27.3 Insurance Not a Limit. The indemnity obligations in this Article are not limited by the types or amounts of insurance required under Article 10, and the CMAR's failure to maintain required insurance does not relieve it of these obligations.

27.4 Flow-Down. The CMAR shall include an indemnity provision consistent with this Article, and with the limitation in N.C. Gen. Stat. § 22B-1, in every subcontract at every tier.

27.5 Immunity Preserved. Nothing in this Article waives the City's governmental immunity or any defense available to the City under North Carolina law.

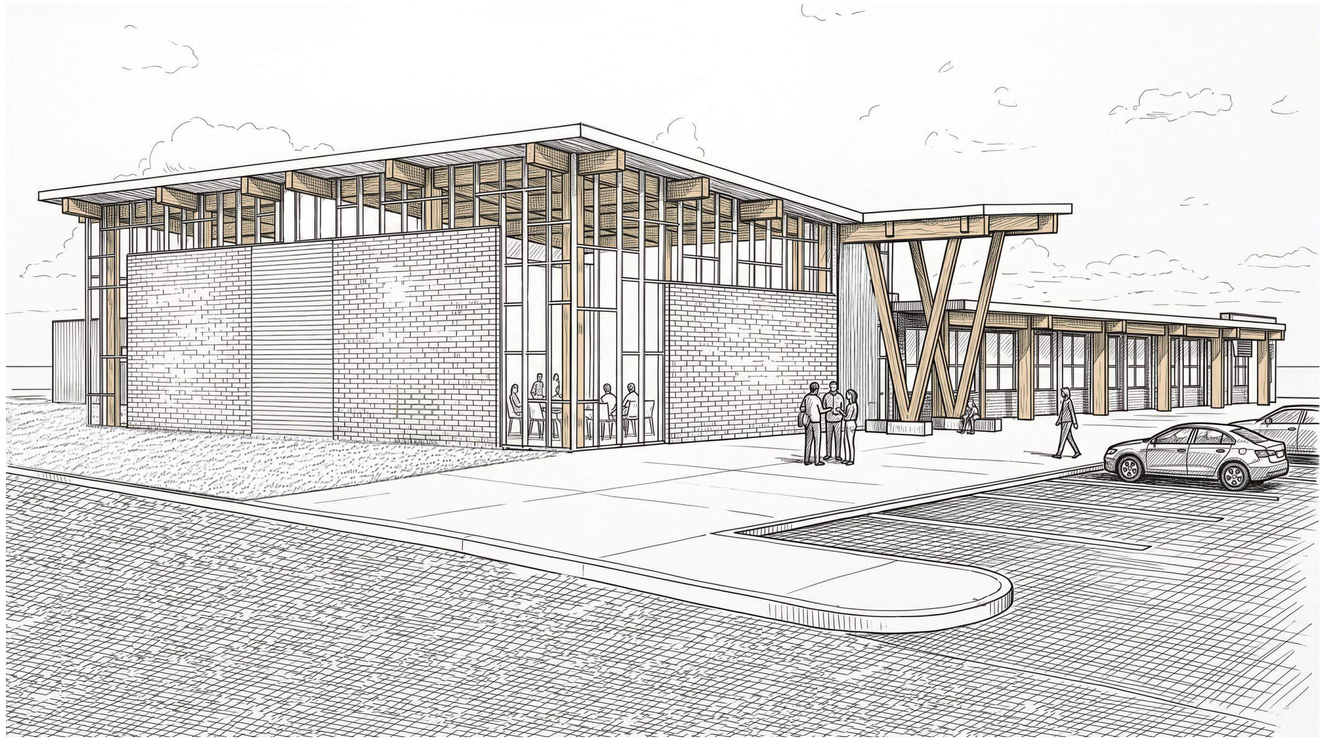
27.6 Survival. This Article survives Substantial Completion, Final Completion, and termination or expiration of this Contract.

APPENDIX C

911 Center | 2026-07-22 Schematic Design

911 CENTER

PROJ: 225358
CITY OF FAYETTEVILLE
433 HAY STREET
FAYETTEVILLE, NC 28301



CURRENT ISSUE: 2026-07-22 SCHEMATIC DESIGN

CIVIL
TIMMONS
5410 TREINITY ROAD
SUITE 102
RALEIGH, NC 27607
919.866.4951
919.859.5663
CONSULTANT 1 CONTACT
CONSULTANT 1 EMAIL

STRUCTURAL
LYNCH MYKINS / IMEG
301 N. WEST STREET
SUITE 105
RALEIGH, NC 27603
919.782.1833
CONSULTANT 2 FAX
CONSULTANT 2 CONTACT
CONSULTANT 2 EMAIL

MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
RALEIGH, NC 27601
CONSULTANT 3 PHONE
CONSULTANT 3 FAX
CONSULTANT 3 CONTACT
CONSULTANT 3 EMAIL

HCM | Schrader
4208 SIX FORKS ROAD
SUITE 1000
RALEIGH, NC 27609
919.825.4882

CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

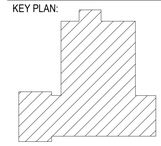
HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

ARCH NAME ARCH ##

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: OA / JS
Checked By: DP

KEY PLAN:



Drawing
COVER SHEET

G-000

NOT FOR CONSTRUCTION

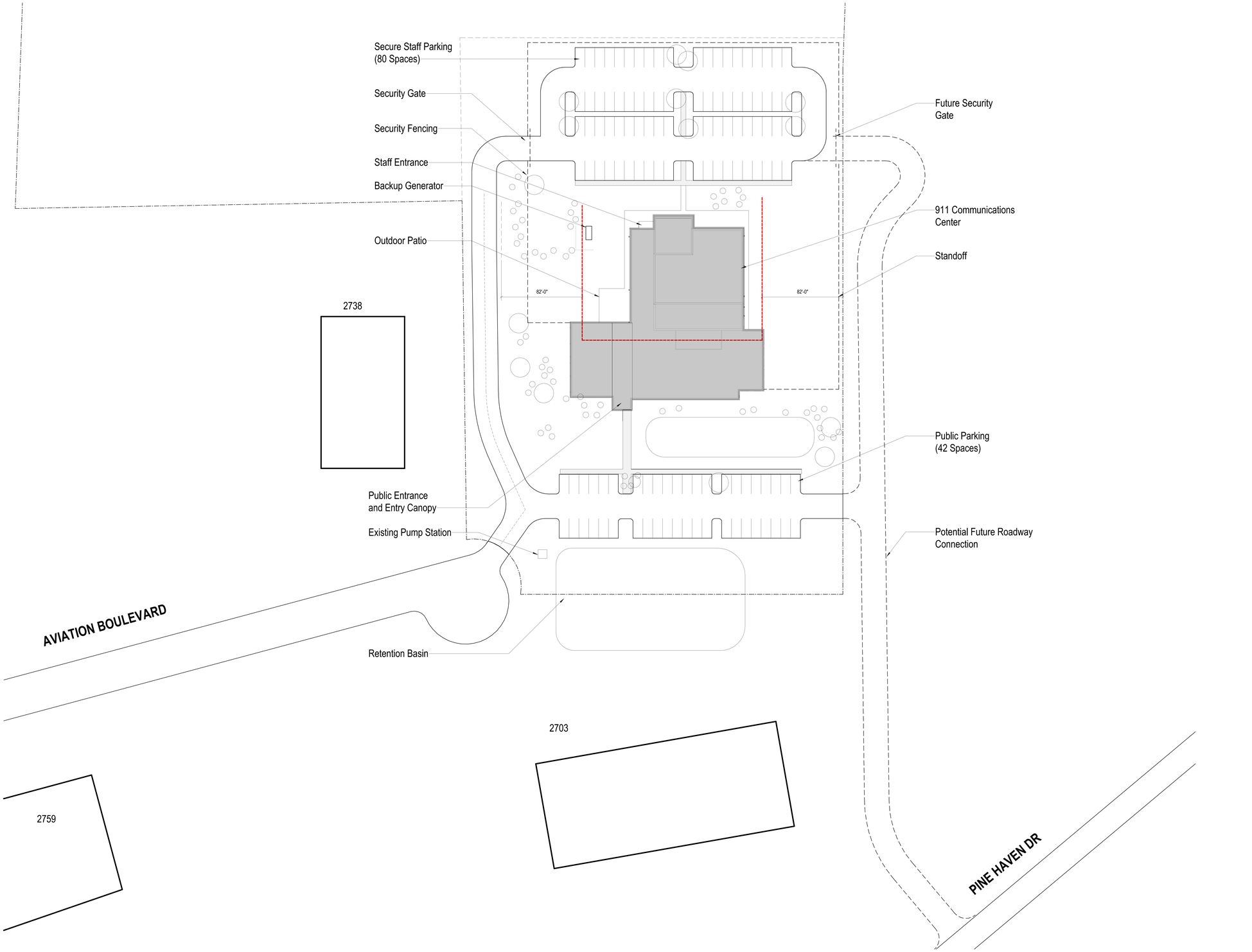
2026-07-22
SCHEMATIC DESIGN PROGRESS

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1 SITE PLAN
A-001 1" = 40'-0"

HCM | Schrader
4208 SIX FORKS ROAD
SUITE 1000
RALEIGH, NC 27609
919.825.4882
CIVIL
TIMMONS
5410 TRENITY ROAD
SUITE 102
919.866.4951
STRUCTURAL
LYNCH MYKINS / IMEG
301 N. WEST STREET
SUITE 100
919.782.1833
MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
CONSULTANT 3 PHONE

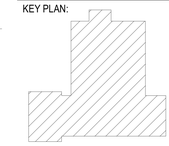
CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number:	225358
Drawn By:	OA / JS
Checked By:	DP

KEY PLAN:



Drawing
SITE PLAN

A-001

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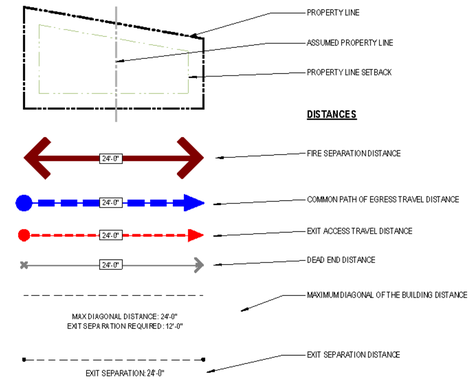
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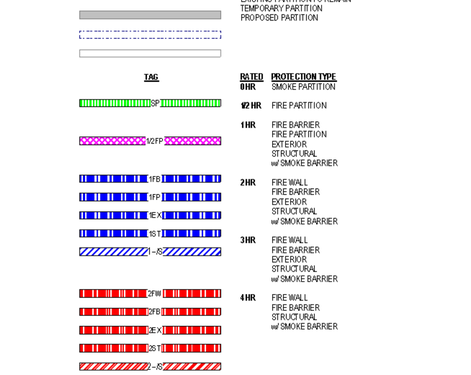
Function of Space

- ASSEMBLEY
- BUSINESS
- RESIDENTIAL
- STORAGE
- UNOCC.

LIFE AND SAFETY LEGEND

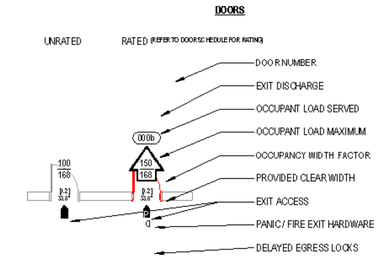


BUILDING ELEMENTS

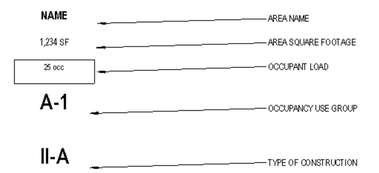


TAG:	RATED	PROTECTION TYPE
SP	0HR	SMOKE PARTITION
½FP	½HR	FIRE PARTITION
1FB	1HR	FIRE BARRIER FIRE PARTITION EXTERIOR STRUCTURAL w/ SMOKE BARRIER
1FP 1EX 1ST /S	2HR	FIRE WALL FIRE BARRIER EXTERIOR STRUCTURAL w/ SMOKE BARRIER
2FB 2EX 2ST /S	3HR	FIRE WALL FIRE BARRIER EXTERIOR STRUCTURAL w/ SMOKE BARRIER
3FB 3EX 3ST /S	4HR	FIRE WALL FIRE BARRIER STRUCTURAL w/ SMOKE BARRIER

DOORS



AREA TAG



1 *Pres Life and Safety Plan - Level 01

A-002 1/8" = 1'-0"

0' 4' 8' 16' 32'

NORTH

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SUITE 1000
RALEIGH, NC 27609
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5410 TRINITY ROAD
SUITE 102
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301 N. WEST STREET
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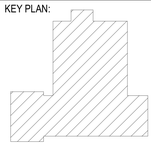
CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number:	225358
Drawn By:	OA / JS
Checked By:	DP

KEY PLAN:



Drawing
LIFE AND SAFETY PLAN

A-002

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2026-07-22
SCHEMATIC DESIGN PROGRESS

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Legend

- IPF - Iron Pipe Found
- ROD/F - Iron Rod Found
- MON - Concrete Monument
- Spigot
- Water Meter
- Water Valve
- Clean Out
- Sanitary Manhole
- Drainage Structure
- Satellite Dish
- Telephone Pedestal
- Cable TV Pedestal
- Utility Vault
- Underground Fiber Optic Marker
- Electric Box
- Electric Meter
- Sign
- Bollard
- Tree
- Approximate Direction
- Irrigation Control Valve

- Deed Line
- Line Not Surveyed
- Fence
- Silt Fence
- Chain Link Fence
- Sanitary Line
- Painted Telephone Line
- Painted Water Line
- Painted Fiber Optic Line
- Painted Cable TV Line
- Painted Power Line
- Edge of Pavement
- Curb and Gutter
- Contour Major
- Contour Minor
- Road Gravel
- Road Unpaved
- Centerline Drain Ditch
- Landscape Area
- Centerline Road
- Concrete
- Edge of Tree Line
- Rip Rap

Abbreviations Legend

CB -	Catch Basin
DB -	Deed Book
INV.-	Invert
NTS -	Not to Scale
PB -	Plat Book
PG -	Page
PIN -	Parcel Identification Number
RCP -	Reinforced Concrete Pipe
SF -	Square Feet
SSMH -	Sanitary Sewer Manhole
MON -	Monument Found
IRF -	Iron Rod Fournd
TYP -	Typical

Survey Notes:

1. Prepared for Schrader Group.
2. This property lies in Zone X, not a special flood hazard area per FIRM 3720043500J, Panel 0435, effective date January 5, 2007. Floodplain shown is approximate.
3. Horizontal control is based on NC State Grid, NAD'83 (2011) as determined by GPS.
4. Vertical control based on NAVD'88.
5. Contour interval is one foot (1.0').
6. This survey was completed without benefit of a title search, not all encumbrances and easements may be shown.
7. This survey does not verify the existence of, nor certify the location of, any jurisdictional wetlands that may exist on this property.
8. This survey is for planning purposes only and should not be used for the transfer of real property.
9. The location of subsurface utilities as shown hereon, if any, are based on field location of surface features and markings provided by Timmon's Group and comply with the ASCE Standard 38-22. Other subsurface utilities may exist on this site that are not included in this survey.

NAD 83

SCALE 1"=40'

0 40' 80'

HCM | Schrader
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SUITE 2450
CONSULTANT 3 PHONE

CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

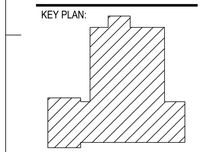
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PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
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KEY PLAN:



Drawing
EXISTING CONDITIONS PLAN

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DEMOLITION NOTES:

1. NOTIFY OWNER AND ARCHITECT IMMEDIATELY OF UTILITY SERVICE INTERRUPTIONS TO NEIGHBORING PROPERTIES.
2. UTILITIES ENCOUNTERED THAT ARE NOT INCLUDED WITHIN THE EXISTING CONDITIONS PLANS SHALL BE REMOVED OR RELOCATED PER THE OWNER, ARCHITECT AND UTILITY PROVIDERS DIRECTION.
3. EVERYTHING WITHIN THE LIMITS OF DISTURBANCE SCHEDULED TO BE DEMOLISHED SHALL ONLY PROCEED AFTER ALL TREE PROTECTION FENCE AND PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND INSPECTED PER THE EROSION CONTROL PLAN. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT LADEN RUNOFF FROM EXITING THE SITE.
4. ALL TRASH AND MISCELLANEOUS DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANOR. CONTRACTOR TO REMOVE ALL SITE FEATURES REQUIRED FOR CONSTRUCTION.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE AND COUNTY STANDARDS.
6. OPEN BURNING OF TREES, LIMBS, STUMPS, AND CONSTRUCTION DEBRIS ASSOCIATED WITH THIS DEVELOPMENT IS PROHIBITED.
7. ALL EXISTING FIRE HYDRANTS TO REMAIN CLEAR AND OPERATIONAL DURING ALL PHASES OF CONSTRUCTION

GENERAL NOTES:

1. CONTRACTOR RESPONSIBLE FOR ALL DEMOLITION REQUIRED WITHIN THE LIMITS OF WORK SHOWN.

DEMOLITION LEGEND

- REMOVE WOODED AREA
- REMOVE SITE FEATURE

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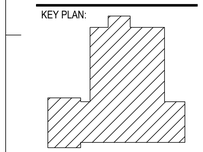
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Drawn By:	SE
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KEY PLAN:



Drawing

DEMOLITION PLAN

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GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH CUMBERLAND COUNTY AND NCDEQ STANDARDS AND SPECIFICATIONS.
2. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
3. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY NCDEQ.
4. FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
5. EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
7. CONTRACTOR SHALL ENSURE THAT ALL TEMPORARY DIVERSIONS ARE INSTALLED WITH POSITIVE DRAINAGE AND SHALL OPPOSE EXISTING GRADE WHEN NECESSARY TO PROVIDE A MINIMUM OF 0.5% LONGITUDINAL SLOPE.
8. ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEPT AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
9. INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
10. CONCRETE WASH-OUTS MUST BE LOCATED AT LEAST 50' FROM ALL DRAINAGE STRUCTURES, CHANNELS AND DRAINAGE WAYS.
11. ALL AREAS OUTSIDE OF LIMITS OF CONSTRUCTION SHALL REMAIN UNDISTURBED.

PHASE I EROSION CONTROL CONSTRUCTION SEQUENCE:

1. OBTAIN AN APPROVED AND APPLICABLE PERMIT PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY. A COPY OF THE APPROVED PLAN AND APPROVAL LETTER MUST BE IN FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED START DATE OF LAND DISTURBING ACTIVITIES BY CONTACTING NCDEQ FAYETTEVILLE REGIONAL OFFICE AT (910) 433-3300. CONTRACTOR SHALL APPLY AND OBTAIN FOR NOTICE OF INTENT (NOI) PER NCDEQ REQUIREMENTS AT HTTPS://EDOCS.DEQ.NC.GOV/FORMS/NCG01-NOI
2. CONTRACTOR SHALL COMPLETE THE ELECTRONIC NOTICE OF INTENT (NOI) THORUGH NCDEQ PRIOR TO ANY LAND DISTURBING ACTIVITIES. THE CONTRACTOR SHALL LIST THEMSELVES AS THE PERSON RESPONSIBLE FOR THE CONSTRUCTION ACTIVITIES WHEN ISSUING THE NOTICE OF INTENT.
3. CONDUCT A PRE-CONSTRUCTION CONFERENCE WITH NCDEQ, OWNER, AND CIVIL ENGINEER.
4. INSTALL CONSTRUCTION ENTRANCE, PERIMETER CONTROL MEASURES, AND CONCRETE WASHOUT AS SHOWN ON PHASE I EROSION CONTROL DRAWING. CLEAN ONLY AS NECESSARY TO INSTALL PHASE I EROSION CONTROL MEASURES.
5. INSTALL SKIMMER BASIN 2 AND ASSOCIATED TEMPORARY DIVERSION DITCHES AS SHOWN ON THIS DRAWING.SEED AND STRAW DIVERSIONS IMMEDIATELY UPON INSTALLATION. INSTALL PERMANENT RISER STRUCTURE H1 AND ASSOCIATED OUTFALL BARREL TO OUTFALL AT STRUCTURE H3. TIE SKIMMER INTO RISER UPON INSTALLATION.
6. INSTALL SKIMMER BASINS 1 AND 3 AND TEMPORARY DIVERSION DITCHES TO EACH AS SHOWN ON THIS DRAWING. SEED AND STRAW DIVERSIONS IMMEDIATELY UPON INSTALLATION.
   NOTE: SEED AND MULCH DISTURBED AREAS AROUND BASIN AS DENOTED ON DRAWING.
7. CONTACT NCDEQ TO SCHEDULE AN INSPECTION OF ALL INSTALLED PHASE I EROSION CONTROL MEASURES.
   NOTE: DEMOLITION, GRADING, AND OTHER LAND DISTURBING ACTIVITIES SHALL NOT OCCUR UNTIL INSTALLED EROSION CONTROL MEASURES HAVE BEEN APPROVED BY ALL REQUIRED AUTHORITIES.
8. STRIP TOPSOIL AND STOCKPILE WITHIN CONSTRUCTION LIMITS.
9. MAINTAIN ALL INSTALLED PHASE I EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION AND PROCEED TO PHASE II EROSION CONTROL.

EROSION CONTROL LEGEND

LOD	LIMITS OF DISTURBANCE
TP	TREE PROTECTION FENCE
	SILT FENCE
	SILT FENCE OUTLET
	DIVERSION DITCH
SB	SKIMMER BASIN
	CHECK DAM
TS	TEMPORARY SEEDING

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

PROVIDE FENCING AS NECESSARY FOR THE SAFETY AND PROTECTION OF STAFF AND VISITORS

LIMITS OF DISTURBANCE:
±6.791 AC

NAD 83

SCALE 1"=40'
0 40' 80'

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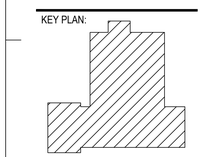
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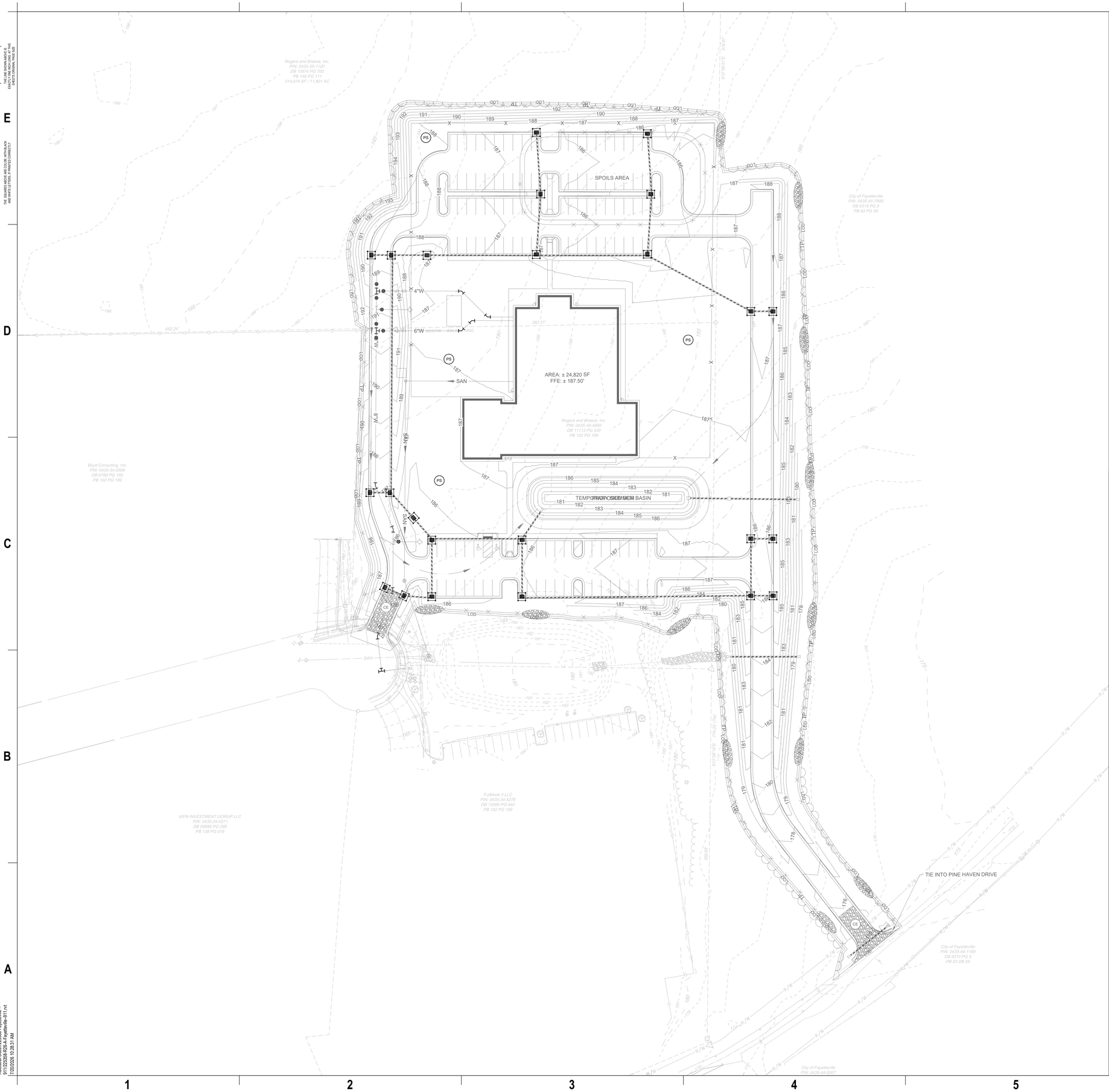
Drawing
EROSION CONTROL PLAN - PHASE I

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GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH CUMBERLAND COUNTY AND NCDEQ STANDARDS AND SPECIFICATIONS.
2. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
3. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY NCDEQ.
4. FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
5. EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
7. CONTRACTOR SHALL ENSURE THAT ALL TEMPORARY DIVERSIONS ARE INSTALLED WITH POSITIVE DRAINAGE AND SHALL OPPOSE EXISTING GRADE WHEN NECESSARY TO PROVIDE A MINIMUM OF 0.5% LONGITUDINAL SLOPE.
8. ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEPT AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
9. INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
10. 'BOX OUT' SILT FENCE IS TO BE PROVIDED AT OUTFALL AREA AND THIS CAN BE REMOVED AS NEEDED FOR ACCESS, BUT MUST BE REESTABLISHED UPON INACTIVITY IN THE AREA. SINGLE ROW SILT FENCE IS ACCEPTABLE IN FOR THIS MEASURE.
11. CONCRETE WASH-OUTS MUST BE LOCATED AT LEAST 50' FROM ALL DRAINAGE STRUCTURES, CHANNELS AND DRAINAGE WAYS.
12. ANY MECHANICAL DE-WATERING MEASURE MUST HAVE WRITTEN AUTHORIZATION FROM EROSION CONTROL INSPECTOR PRIOR TO OCCURRENCE.
13. BAFFLE HEIGHT AND FUNCTION NEED TO BE ADDRESSED WITH DE-WATERING ELEVATIONS. DE-WATERING LOCATION TO BE WITHIN 1' OF BASIN FLOOR OR ELEVATED BAFFLE HEIGHT FOR COVERAGE.
14. CONVERSION OF BASIN MUST HAVE WRITTEN AUTHORIZATION FROM EROSION CONTROL INSPECTOR PRIOR TO OCCURRENCE.
15. TRIASSIC SOIL CODE REQUIREMENTS:
    - 15.1. 5,400 CUBIC FEET PER ACRE VOLUME
    - 15.2. 4 DAY MINIMUM DE-WATERING TIME
    - 15.3. NCDEQ FLOCCULANT GUIDELINE IMPLEMENTATION
    - 15.4. MATTING OR HYDROSEEDIN FOR ALL MODERATE TO SEVERE SLOPES
16. ALL AREAS OUTSIDE OF LIMITS OF CONSTRUCTION SHALL REMAIN UNDISTURBED.

PHASE II EROSION CONTROL CONSTRUCTION SEQUENCE:

1. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CANNOT HAVE HOLES OR TEARS.
2. IMPORTED MATERIAL WILL REQUIRE A PERMITTED SITE APPROVAL BEFORE THIS PROCESS BEGINS.
3. BEGIN GRADING AND CONSTRUCTION ON PROPOSED BUILDING.
4. BEGIN TO INSTALL STORM DRAINAGE SYSTEM AS SHOWN ON DRAWINGS. PIPE INLET PROTECTION SHALL BE UTILIZED AT THE END OF EACH WORK DAY TO ENSURE PIPE NETWORK IS NOT INUNDATED WITH SEDIMENT.
5. BEGIN TO INSTALL SITE IMPROVEMENTS, WATER MAINS, AND UTILITY SERVICES AS SHOWN ON THE APPROVED DRAWINGS. ALL OPEN TRENCHES FOR UTILITY AND STORMWATER INSTALLATION SHALL BE PROTECTED FROM SEDIMENTATION BY PILING EXCAVATION MATERIAL ON THE UPHILL SITE OF EXCAVATION.
6. INSTALL ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES AND/OR INCREASE MAINTENANCE FREQUENCY WHERE APPROVED MEASURES FAIL TO PREVENT ACCELERATION EROSION, OFF-SITE SEDIMENTATION, OR REPETITIVE NON-COMPLIANCE ISSUES. ALL MEASURES MUST BE INSTALLED PER DRAWING DETAIL. ENSURE CONSTRUCTION TRAFFIC IS LIMITED TO THE CONSTRUCTION ENTRANCE ONLY.
7. MODIFICATIONS TO THE APPROVED AND PERMITTED PLANS SHALL BE APPROVED BY EROSION CONTROL INSPECTIONS PRIOR TO THE REMOVAL OR INSTALLED. CONTACT THE EROSION CONTROL INSPECTIONS PRIOR TO REMOVAL OR INSTALLATION. CONTACT THE EROSION CONTROL INSPECTOR TO OBTAIN SIGN-OFF ON THE PLAN.
8. PRIOR TO CONVERTING SKIMMER BASIN TO PERMANENT WET POND. THE BASIN SHALL BE CLEARED OF SILT AND RETURNED TO DESIGN STATE.

PHASE II EROSION CONTROL LEGEND

HARDWARE CLOTH & GRAVEL INLET PROTECTION

PS — PERMANENT SEEDING

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

PROVIDE FENCING AS NECESSARY FOR THE SAFETY AND PROTECTION OF STAFF AND VISITORS

LIMITS OF DISTURBANCE:
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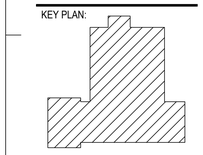
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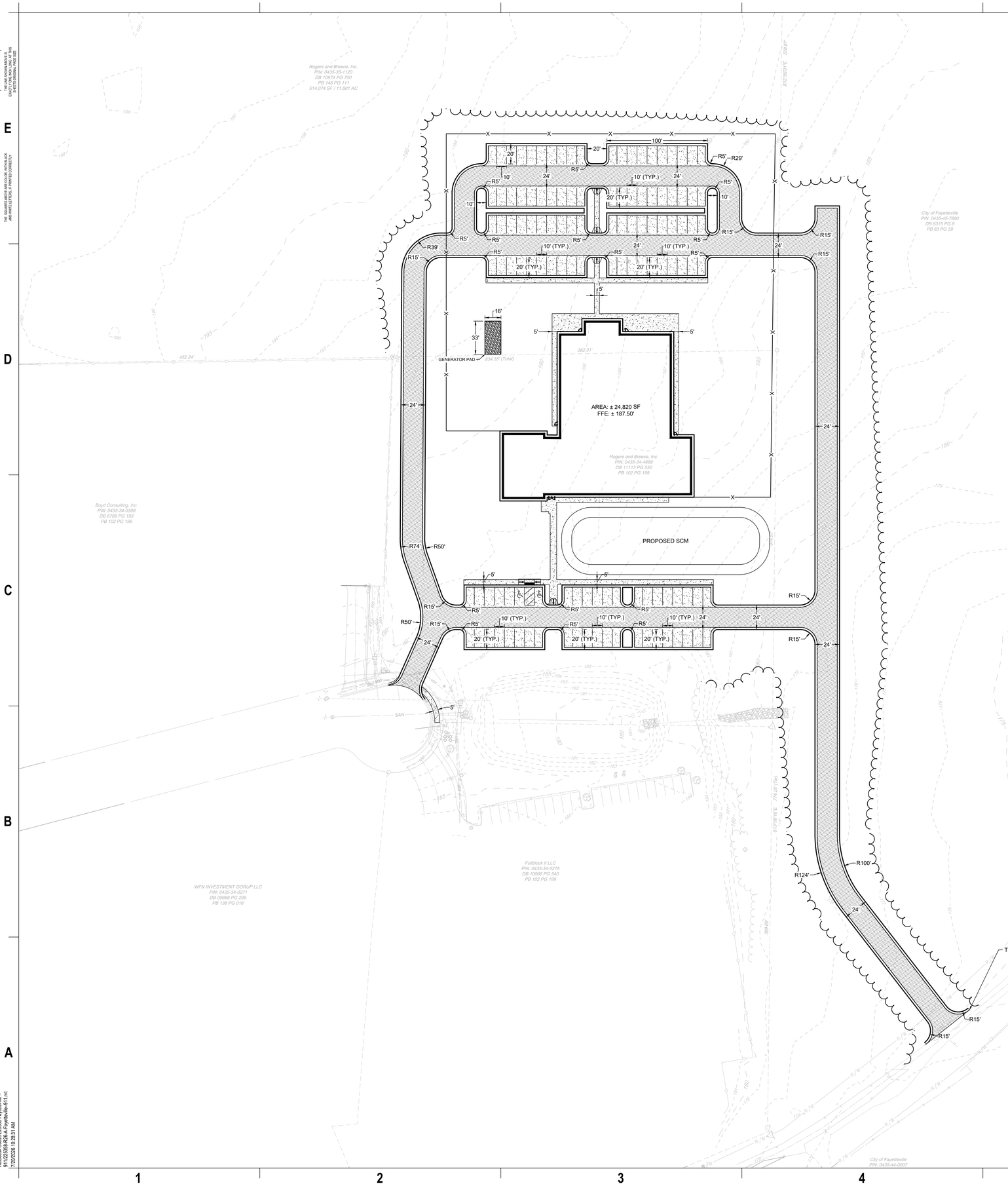
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EROSION CONTROL PLAN - PHASE II

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PIN LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAPER SIZE

GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CUMBERLAND COUNTY AND OSHA STANDARDS.
2. THE CONTRACTOR SHALL RECYCLE ALL PAVING MATERIALS REMOVED FROM THE SITE AND SHALL PROVIDE DOCUMENTATION THAT THE MATERIALS HAVE BEEN RECYCLED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
5. CURB RADII ARE DIMENSIONED FROM FACE OF CURB OR EDGE OF PAVEMENT.
6. RAISE ALL STRUCTURES WITHIN THE AREAS TO BE OVERLAID OR PAVED WITH ASPHALT SUCH THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.

FOR WORK WITHIN THE NCDOT RIGHT OF WAY:

7. ALL PAVING SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR.
8. ALL PAVEMENT MARKINGS SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR.
9. THIS PROJECT IS SUBJECT TO SUPERPAVE MIX REQUIREMENTS AND FILL IMPLEMENTATION OF THE QMS (QUALITY MANAGEMENT SYSTEM) SPECIFICATIONS FOR ALL ASPHALT PAVEMENTS.
10. THE CONTRACTOR MUST NOTIFY NCDOT 48 HOURS IN ADVANCE PRIOR TO BEGINNING WORK.
11. THE CONTRACTOR SHALL REFERENCE NCDOT STANDARD DETAIL 1101.02, SHEETS 1-15 FOR TEMPORARY LANE CLOSURE INFORMATION.

GENERAL SIGNAGE AND STRIPING NOTES

1. ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING AND AMENDMENTS AND SUPPLEMENTS THERETO:
   A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   B. NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARDS.
   C. THE 2018 INTERNATIONAL FIRE CODE.
2. SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS AND TO COMPLY WITH STANDARDS REFERENCED IN NOTE 1 ABOVE.
3. PROVIDE ALL SIGNS, SIGN POSTS AND PAVEMENT MARKINGS.
4. ALL PAVEMENT MARKINGS WITHIN THE NCDOT PUBLIC RIGHT OF WAY SHALL BE 0.125 MIL THERMOPLASTIC

HATCHING LEGEND

- LIGHT DUTY ASPHALT
- MEDIUM DUTY ASPHALT
- HEAVY DUTY ASPHALT
- CONCRETE SIDEWALK
- GRAVEL

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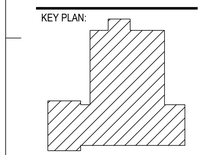
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KEY PLAN:



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SITE PLAN

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GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSCO AND OSHA STANDARDS.
2. COORDINATE THE PROJECT SCHEDULE WITH THE OWNER, ARCHITECT, AND ADJACENT USERS OF THE PROPERTY. MAINTAIN TRAFFIC FLOW AND DO NOT INTERRUPT UTILITIES AROUND THE SITE. DO NO DISTURB OPERATIONS OF ADJACENT SITES AND FACILITIES AND/OR THEIR OWNER'S ONGOING OPERATIONS.
3. THE CONTRACTOR SHALL RECYCLE ALL PAVING MATERIALS REMOVED FROM THE SITE AND SHALL PROVIDE DOCUMENTATION THAT THE MATERIALS HAVE BEEN RECYCLED.
4. OBTAIN ARCHITECTS WRITTEN APPROVAL FOR ANY REQUESTED SHORT-TERM, OFF-HOUR, OR TEMPORARY UTILITY SHUT- DOWNS OR DISRUPTIONS.
5. DISPOSE OFF-SITE WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS. IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY, THE RELATED BORROW OR WASTE ACTIVITY IS PART OF THE LAND DISTURBING ACTIVITY. IF THE BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON, THEY SHALL BE CONSIDERED SEPARATE LAND DISTURBING ACTIVITY AND MUST BE PERMITTED THROUGH THE SEDIMENT POLLUTION CONTROL ACT.
6. REPAIR OR REPLACE ANY ITEMS DAMAGED DUE TO CONSTRUCTION (ONSITE AND/OR OFFSITE) AT NO EXPENSE TO THE OWNER.
7. MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT IN ACCORDANCE WITH NCDEQ LAND QUALITY REQUIREMENTS AND AS DIRECTED BY THE NCDEQ AND CIVIL ENGINEER.
8. FLUSH ALL SEDIMENT OUT OF STORM DRAINAGE PIPES AND STRUCTURES FOLLOWING SITE STABILIZATION AND AT THE END OF CONSTRUCTION. FLUSH OUT PIPES AS NEEDED THROUGHOUT CONSTRUCTION TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
9. ALL SIDEWALKS SHALL HAVE MAXIMUM CROSS SLOPE OF 2%.
10. ALL ADA PARKING SPACES AND STRIPED AREAS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
11. INSTALL ALL STORM SEWERS TO PROVIDE REQUIRED CLEARANCES TO CROSSING UTILITIES AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
12. ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
13. PVC ROOF DRAIN PIPING UNDER PAVEMENT SHALL HAVE 24-IN MINIMUM COVER. IF ROOF DRAIN PIPING UNDER PAVEMENT HAS LESS THAN 24-IN COVER, ROOF DRAIN PIPING SHALL BE 6" DIP (IN LIEU OF PVC).
14. PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS, STORM SEWERS, AND THE STORM WATER MANAGEMENT BASIN.
15. REFER STORM SEWER SCHEDULE FOR SIZES, INVERTS AND SLOPES
    FOR 6", TOP OF GRATE IS 8" BELOW TOP OF CURB/HOOD

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CITY OF FAYETTEVILLE 911 CENTER

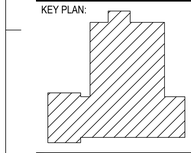
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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



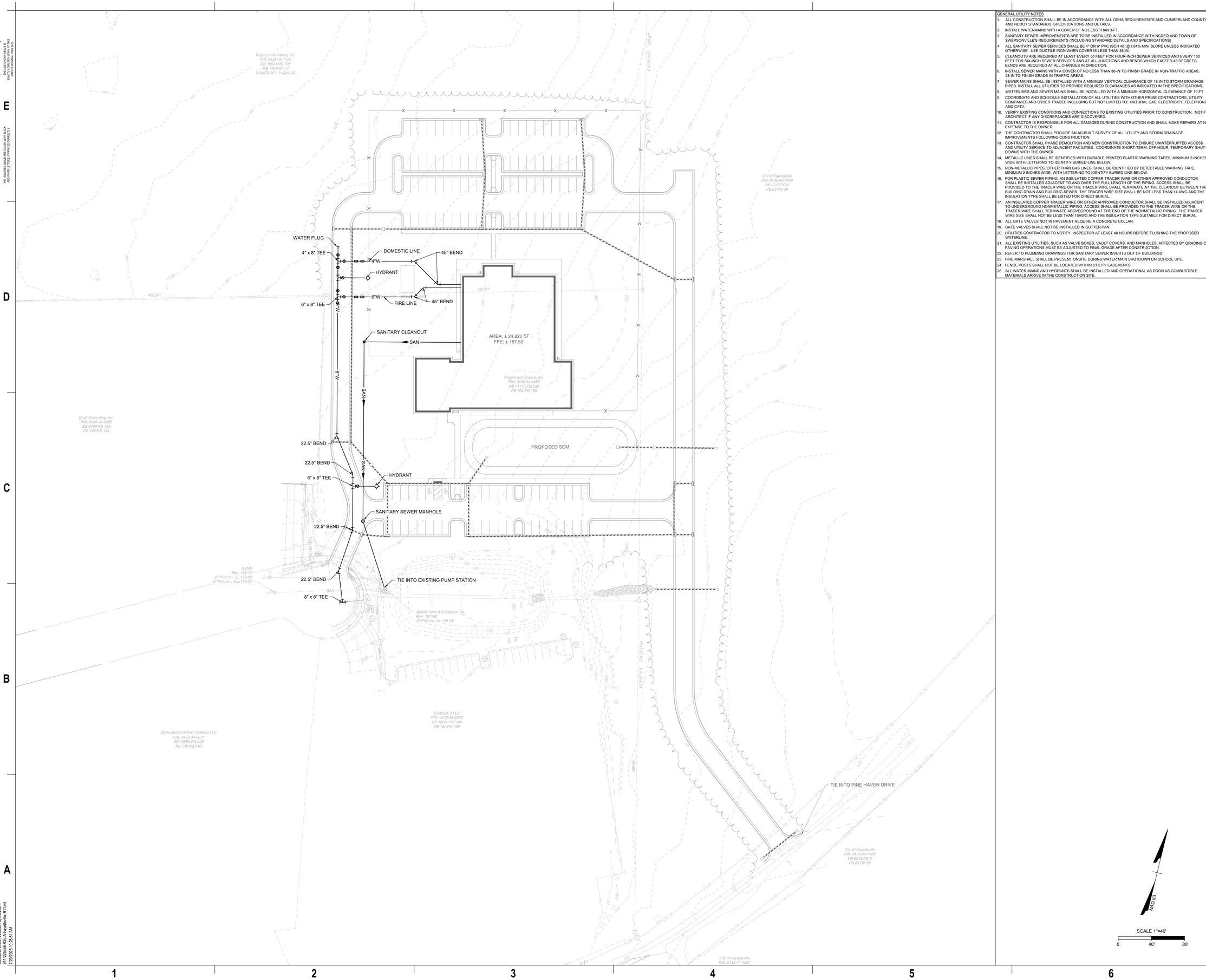
Drawing
GRADING & DRAINAGE PLAN

C4.0

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2026-07-22
SCHEMATIC DESIGN PROGRESS

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GENERAL UTILITY NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL OSHA REQUIREMENTS AND CUMBERLAND COUNTY AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. INSTALL WATERMAINS WITH A COVER OF NO LESS THAN 3-FT.
3. SANITARY SEWER IMPROVEMENTS ARE TO BE INSTALLED IN ACCORDANCE WITH NCDEQ AND TOWN OF SWEPSONVILLE'S REQUIREMENTS (INCLUDING STANDARD DETAILS AND SPECIFICATIONS)
4. ALL SANITARY SEWER SERVICES SHALL BE 4" OR 6" PVC (SCH 40) @1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 36-IN.
5. CLEANOUTS ARE REQUIRED AT LEAST EVERY 50 FEET FOR FOUR-INCH SEWER SERVICES AND EVERY 100 FEET FOR SIX-INCH SEWER SERVICES AND AT ALL JUNCTIONS AND BENDS WHICH EXCEED 45 DEGREES. BENDS ARE REQUIRED AT ALL CHANGES IN DIRECTION.
6. INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 36-IN TO FINISH GRADE IN NON-TRAFFIC AREAS, 48-IN TO FINISH GRADE IN TRAFFIC AREAS.
7. SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 18-IN TO STORM DRAINAGE PIPES. INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
8. WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10-FT.
9. COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
10. VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
11. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
12. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
13. CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
14. METALLIC LINES SHALL BE IDENTIFIED WITH DURABLE PRINTED PLASTIC WARNING TAPES, MINIMUM 3 INCHES WIDE WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
15. NON-METALLIC PIPES, OTHER THAN GAS LINES, SHALL BE IDENTIFIED BY DETECTABLE WARNING TAPE, MINIMUM 2 INCHES WIDE, WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
16. FOR PLASTIC SEWER PIPING, AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF THE PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND BUILDING SEWER. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 14 AWG AND THE INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL.
17. AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVEGROUND AT THE END OF THE NONMETALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18AWG AND THE INSULATION TYPE SUITABLE FOR DIRECT BURIAL.
18. ALL GATE VALVES NOT IN PAVEMENT REQUIRE A CONCRETE COLLAR.
19. GATE VALVES SHALL NOT BE INSTALLED IN GUTTER PAN.
20. UTILITIES CONTRACTOR TO NOTIFY INSPECTOR AT LEAST 48 HOURS BEFORE FLUSHING THE PROPOSED WATERLINE.
21. ALL EXISTING UTILITIES, SUCH AS VALVE BOXES, VAULT COVERS, AND MANHOLES, AFFECTED BY GRADING OR PAVING OPERATIONS MUST BE ADJUSTED TO FINAL GRADE AFTER CONSTRUCTION.
22. REFER TO PLUMBING DRAWINGS FOR SANITARY SEWER INVERTS OUT OF BUILDINGS
23. FIRE MARSHALL SHALL BE PRESENT ONSITE DURING WATER MAIN SHUTDOWN ON SCHOOL SITE.
24. FENCE POSTS SHALL NOT BE LOCATED WITHIN UTILITY EASEMENTS.
25. ALL WATER MAINS AND HYDRANTS SHALL BE INSTALLED AND OPERATIONAL AS SOON AS COMBUSTIBLE MATERIALS ARRIVE IN THE CONSTRUCTION SITE.

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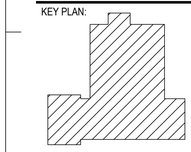
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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



Drawing
UTILITY PLAN

C5.0

NOT FOR CONSTRUCTION

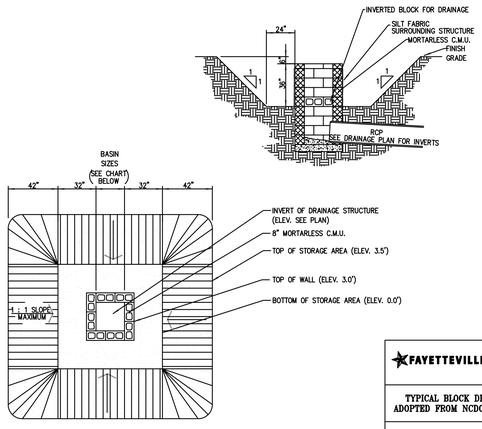
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FIT AND BORDER ARE EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAPER SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

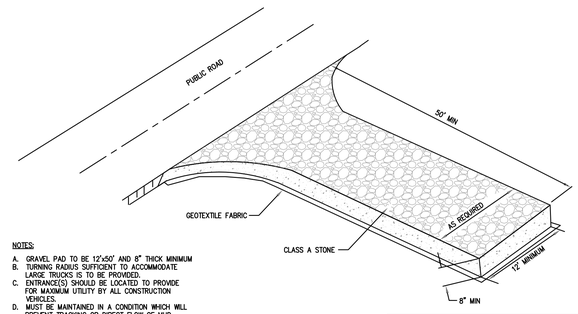
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TYPICAL BLOCK DROP INLET PROTECTION
ADOPTED FROM NCDOT STANDARD NO. 1632.03

Not to Scale
Review Date: JULY 2024

EC-1



NOTES:

A. GRAVEL PAD TO BE 12'x50' AND 8" THICK MINIMUM
B. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
C. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
D. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY; KEEP SOME HANDY.
E. ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.
F. GEOTEXTILE FABRICS SHALL BE USED BENEATH STONE TO IMPROVE STABILITY OF THE FOUNDATION.
G. APPLICABLE AT ALL POINTS OF INGRESS & EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.

GRAVEL CONSTRUCTION ENTRANCE/EXIST
ADOPTED FROM NCDOT STANDARD NO. 1607.01

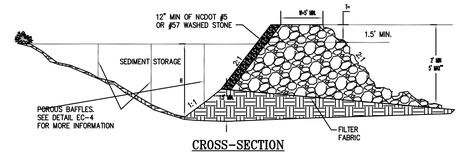
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Review Date: JULY 2024

EC-2

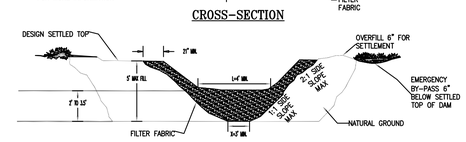
TEMPORARY SEDIMENT TRAP DESIGN CRITERIA	
DRAINAGE AREA (ACRES)	< 1 AC.
MIN. LENGTH TO WIDTH RATIO	2:1
MIN. SEDIMENT STORAGE VOLUME REQUIRED	3600 (CU. FT. PER AC. DISTURBED)
SURFACE AREA REQUIRED	435 (SQ. FT. PER CFS Q10)
POROUS BAFFLES REQUIRED	3
SPILLWAY WEIR LENGTH	4.0 FT. MINIMUM

NOTE:

PLEASE REFER TO NCESCPDM SECTION #6.60 FOR ADDITIONAL DESIGN AND CONSTRUCTION SPECIFICATIONS REGARDING TEMPORARY SEDIMENT TRAPS.



CROSS-SECTION



PLAN VIEW

MAINTENANCE

INSPECT TEMPORARY SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER EACH PERIOD OF SIGNIFICANT RAINFALL (1/2" OR GREATER). REMOVE SEDIMENT AND RESTORE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN A DESIGNATED DISPOSAL AREA AND REPLACE THE PART OF GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.

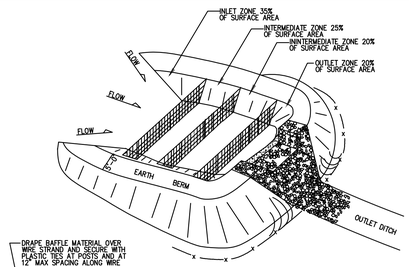
CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OF PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT. BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABLIZE PROPERLY.

TEMPORARY SEDIMENT TRAP
ADOPTED FROM NCDOT STANDARD NO. 1634.02

Not to Scale
Review Date: JULY 2024

EC-3



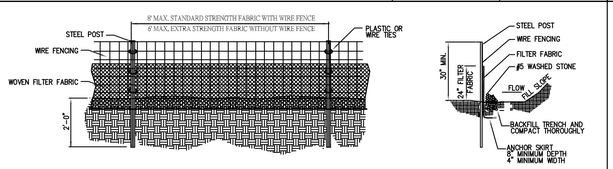
GENERAL NOTES:

1. DRIVE 5' STEEL POST AT LEAST 24" INTO SOLID GROUND.
2. USE 12" 11 GA STAPLES 1' APART HORIZONTALLY AND VERTICALLY TO ATTACH THE FILTER FABRIC TO THE WIRE FENCE.
3. MINIMUM BAFFLE SPACING IS 10'.
4. THE FLOOR OF THE BASIN IN THE OUTLET ZONE AND BERMS SHOULD BE SEEDED IMMEDIATELY AFTER THE BASIN IS CONSTRUCTED.
5. REFER TO NCESCPDM SECTION #6.65 FOR ADDITIONAL SPECIFICATIONS.

BAFFLE INSTALLATION
ADOPTED FROM NCDOT STANDARD NO. 1640.01

Not to Scale
Review Date: JULY 2024

EC-4



GENERAL NOTES:

1. FILTER FABRIC FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
5. TURN SILT FENCE UP SLOPE AT ENDS.
6. WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS.
7. WIRE AND WASHED STONE IS REQUIRED TO BE SHOWN ON PLANS AT THE TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE)
8. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO 50MM BUFFERS, STREAMS OR WETLANDS THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
9. DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
10. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

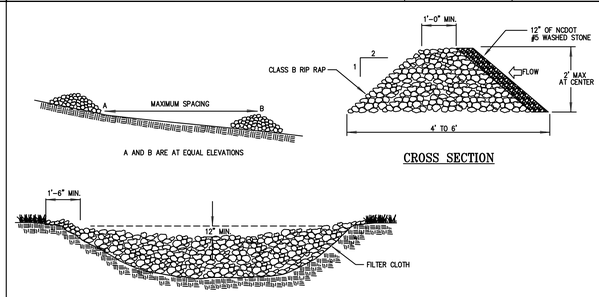
MAINTENANCE NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

HIGH HAZARD
TEMPORARY SILT FENCE

Not to Scale
Review Date: JULY 2024

EC-5



CROSS SECTION

PLAN

GENERAL NOTES:

1. RIPRAP SIZE TO BE CLASS B RIPRAP
2. CHECK DAMS MAY BE USED IN SLOPING DITCHES OR CHANNELS TO SLOW VELOCITY OR TO CREATE SEDIMENT TRAPS.
3. ENSURE THAT MAXIMUM SPACING BETWEEN DAMS PLACES THE TOE OF THE UPSTREAM DAM AT THE SAME ELEVATION AS THE DOWNSTREAM DAM (SEE DIAGRAM BELOW).
4. REFER TO NCESCPDM SECTION #6.83 FOR ADDITIONAL SPECIFICATIONS.

TEMPORARY ROCK
CHECK DAM

Not to Scale
Review Date: JULY 2024

EC-6

	WARMER SEASON	COOL SEASON
SEEDING MIXTURE	100 lbs/acre of tall fesue 25 lbs/acre of german millet 25 lbs/acre of hulled bermuda	100 lbs/acre of tall fesue 30 lbs/acre of wheat 25 lbs/acre of unhulled bermuda
SEEDING DATES	March 15 – September 15	September 15 – March 15
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.

STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES

PERMANENT SEEDING SCHEDULE

Not to Scale
Review Date: JULY 2024

EC-7

	EARLY SUMMER SEASON	FALL/WINTER SEASON
SEEDING MIXTURE	40 lbs/acre of German millet 80 lbs/acre of tall fesue	120 lbs/acre Rye (grain) 80 lbs/acre tall fesue
SEEDING DATES	May 1 – August 15 Refertilize if growth is not fully adequate. Apply 4000 lbs/acre straw or equivalent hydroseeding.	October 25 – December 30 Between December 30 – February 15, add 50 lbs/acre of annual Kobe lespedeza. Apply 4000 lbs/acre straw or equivalent hydroseeding.
SEEDING AMENDMENTS	Apply lime and fertilizer per soil tests, or 2000 lbs/acre limestone and 750 lbs/acre 10-10-10 fertilizer.	Apply lime and fertilizer per soil tests, or 2000 lbs/acre limestone and 750 lbs/acre 10-10-10 fertilizer.

TEMPORARY SEEDING SCHEDULE (SEASONAL)

Not to Scale
Review Date: JULY 2024

EC-8

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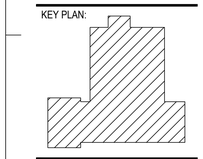
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Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



Drawing
EROSION CONTROL NOTES & DETAILS

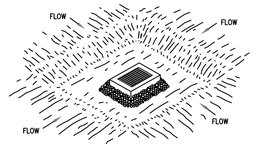
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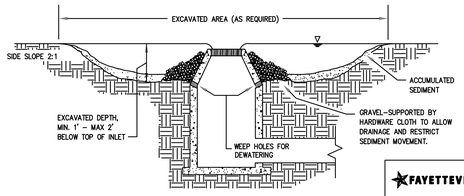
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GENERAL NOTES:

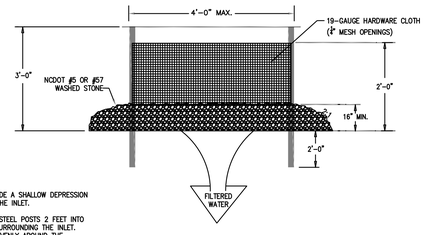
1. CLEAR THE AREA OF ALL DEBRIS THAT MIGHT HINDER EXCAVATION AND DISPOSAL OF SPOIL.
2. GRADE THE APPROACH OF THE INLET UNIFORMLY.
3. PROTECT WEEP HOLES BY GRAVEL.
3. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, SEAL WEEP HOLES, FILL THE EXCAVATED BASIN WITH STABLE SOIL TO FINAL GRADING ELEVATIONS, COMPACT THE FILL PROPERLY AND STABILIZE.



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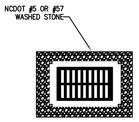
TYPICAL EXCAVATED DROP INLET PROTECTION ADOPTED FROM NCDOT STANDARD NO. 1632.03

Not to Scale | Review Date: JULY 2024 | **EC-1.1**



GENERAL NOTES:

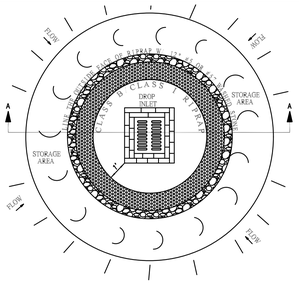
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 18 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUNDCOVER.



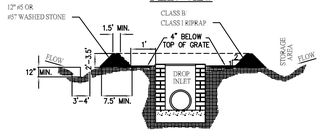
FAYETTEVILLE! ENGINEERING DIVISION 433 HAY ST. 28301 (910) 433-1656 http://www.fayettevillenc.gov

TYPICAL HARDWARE AND GRAVEL DROP INLET PROTECTION ADOPTED FROM NCDOT STANDARD NO. 1632.03

Not to Scale | Review Date: JULY 2024 | **EC-1.2**



PLAN VIEW



SECTION A-A

GENERAL NOTES:

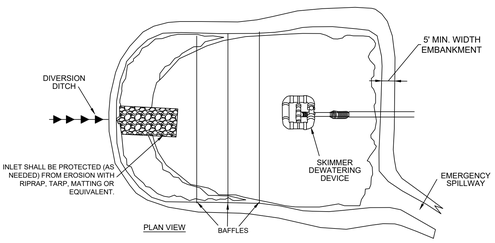
1. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
2. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
3. THE STRUCTURE SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT AFTER EACH STORM EVENT AND REPAIRS MADE AS NECESSARY.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE BASIN HAS BEEN PROPERLY STABILIZED.
6. ON LARGER DRAINAGE AREAS RIP RAP MAY BE REQUIRED UNDER THE WASHED STONE.

NOTE:
SEE SECTION 6.54 OF THE NC EROSION CONTROL MANUAL FOR ADDITIONAL INFORMATION.

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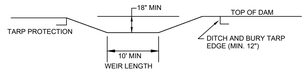
TYPICAL ROCK DOUGHNUT DROP INLET PROTECTION

Not to Scale | Review Date: JULY 2024 | **EC-1.3**

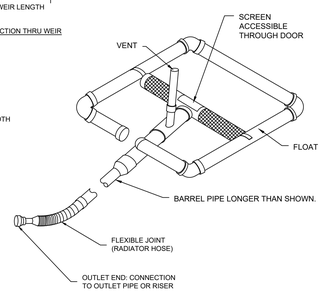


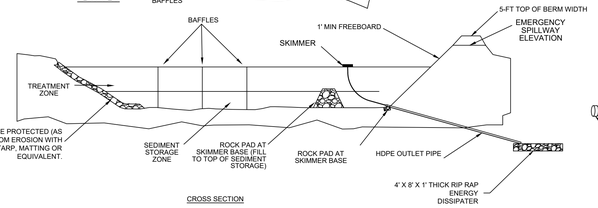
PLAN VIEW

BASIN NOTES:
BASIN SIDES AND WEIR SHALL HAVE MAXIMUM SLOPES OF 2:1 OR FLATTER. DIMENSIONS SHOWN ARE AT WEIR ELEVATION OF BASIN VOLUMES PROVIDED ARE BASED ON AVAILABLE VOLUME AT THE PRINCIPAL SPILLWAY



SECTION THRU WEIR





CROSS SECTION

MAINTENANCE NOTES:

INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

CONSTRUCTION SEQUENCE

1. CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.
2. ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
3. SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OR PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.
4. PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.
5. ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.
6. LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.
7. EARTHEN SPILLWAYS--INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS. (ADAPTED FROM "A MANUAL FOR DESIGNING, INSTALLING AND MAINTAINING SKIMMER SEDIMENT BASINS," FEBRUARY, 1999. J. W. FAIRCLOTH & SON.)
8. INLETS--DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT- LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY (REFERENCES: RUNOFF CONTROL MEASURES AND OUTLET PROTECTION).
9. EROSION CONTROL--CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION (REFERENCES: SURFACE STABILIZATION).
10. INSTALL POROUS BAFFLES AS SPECIFIED IN PRACTICE 6.65
11. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY (REFERENCES: SURFACE STABILIZATION).

BASIN NUMBER	DRAIN AREA(ACRES)	DISTB. AREA(ACRES)	PEAK FLOW(CFS)	BASIN SURFACE AREA(SF)	REQUIRED SURFACE AREA(SF)	BASIN VOLUME (CF)	REQUIRED BASIN VOLUME (CF)	SPILLWAY LENGTH (FT)	SKIMMER SIZE (IN.)	SKIMMER ORIFICE DIAMETER (IN.)	TOP OF BERM ELEV.	EMERGENCY SPILLWAY ELEV.	BOTTOM OF BASIN ELEV.	SIDE SLOPES	DEWATERING TIME (DAYS)

SKIMMER BASIN N.T.S.

HCM | Schrader
4208 SIX FORKS ROAD
SUITE 1000
RALEIGH, NC 27609
919.825.4882

CIVIL
TIMMONS
5410 TRINITY ROAD
SUITE 102
919.866.4951

STRUCTURAL
LYNCH MYKINS / IMEG
301 N. WEST STREET
SUITE 105
919.782.1833

MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
CONSULTANT 3 PHONE

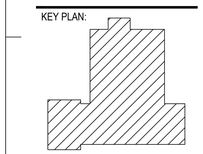
CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



Drawing

EROSION CONTROL NOTES & DETAILS

C6.1

NOT FOR CONSTRUCTION

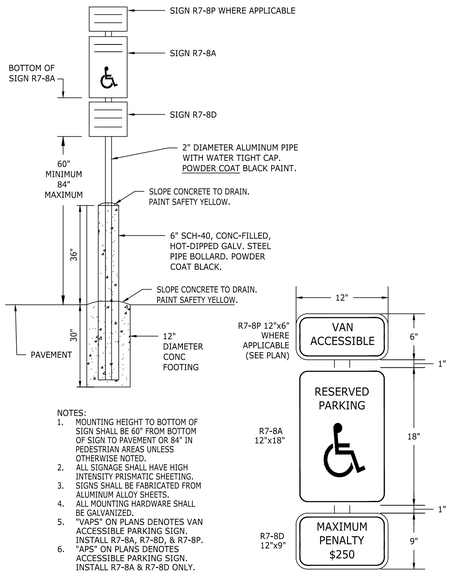
2026-07-22
SCHEMATIC DESIGN PROGRESS

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PRINT SQUARES BEFORE AND COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

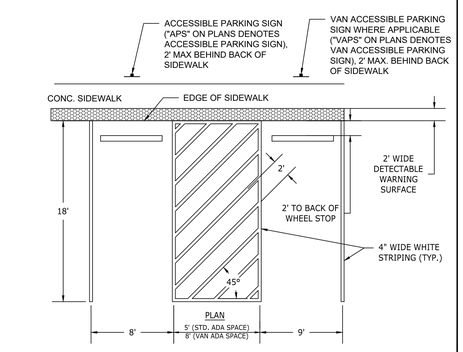
PRINT SQUARES BEFORE AND COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

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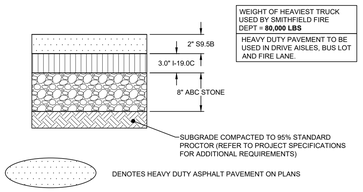
NOTES:
1. MOUNTING HEIGHT TO BOTTOM OF SIGN SHALL BE 60" FROM BOTTOM OF SIGN TO PAVEMENT OR 84" IN PEDESTRIAN AREAS UNLESS OTHERWISE NOTED.
2. ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.
3. SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
4. ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
5. "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.
6. "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.

ACCESSIBLE PARKING SIGN N.T.S.

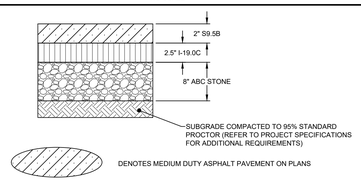


NOTE:
1. ALL PARKING STALL MARKINGS SHALL BE 2-COATS OF WHITE ALKYD RESIN PAINT AT 15 MIL THICKNESS FOR EACH COAT.

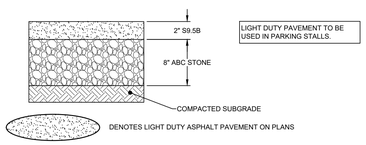
ACCESSIBLE PARKING LAYOUT N.T.S.



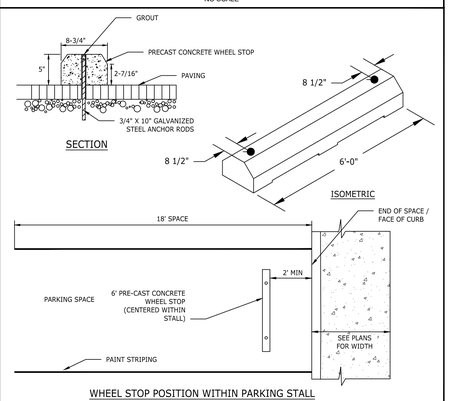
HEAVY DUTY ASPHALT
NO SCALE



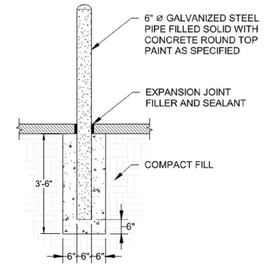
MEDIUM DUTY ASPHALT



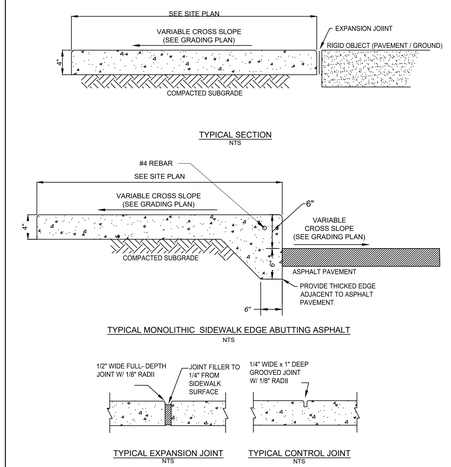
LIGHT DUTY ASPHALT
NO SCALE



PRE-CAST CONCRETE WHEELSTOP N.T.S.



PERMANENT BOLLARD



GENERAL NOTES:
1. PROVIDE GROOVE CONTROL JOINT 1-IN DEEP WITH 1/8-IN RADII IN SIDEWALK AT 5' INTERVALS UNLESS INDICATED OTHERWISE.
2. PROVIDE 1/2-IN EXPANSION JOINT AT 50' INTERVALS.
3. PROVIDE 1/2-IN EXPANSION JOINT WHERE THE SIDEWALK ABUTS ANY RIGID STRUCTURE.
4. SEE SPECIFICATIONS FOR ADDITIONAL JOINT SPACING REQUIREMENTS.
5. ALL CONCRETE SHALL BE 3,000 P.S.I. WITH BROOM FINISH.
6. ALL SIDEWALKS SHALL HAVE 2% OR LESS CROSS SLOPE.
7. ALL SIDEWALKS SHALL HAVE 5% OR LESS LONGITUDINAL SLOPE.

CONCRETE SIDEWALK N.T.S.

HCM | Schrader
4208 SIX FORKS ROAD
SUITE 1000
RALEIGH, NC 27609
919.825.4882

CIVIL
TIMMONS
5410 TRENITY ROAD
SUITE 102
919.866.4951

STRUCTURAL
LYNCH MYKINS / IMEG
301 N. WEST STREET
SUITE 105
919.782.1833

MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
CONSULTANT 3 PHONE

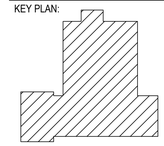
CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



Drawing
SITE NOTES & DETAILS

C6.2

NOT FOR CONSTRUCTION

2026-07-22
SCHEMATIC DESIGN PROGRESS

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PIE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAPER SIZE

THE SQUARES ABOVE ARE SOLID, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

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FIT ARE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAPER SIZE

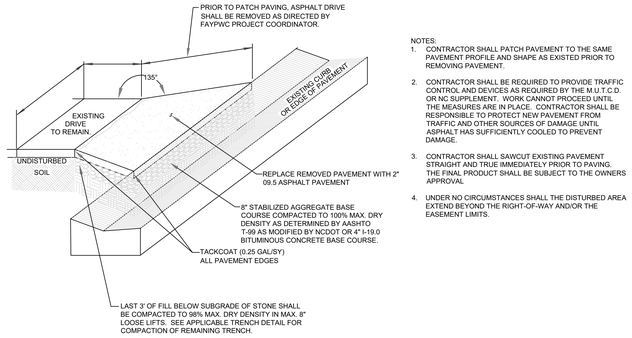
THE SQUARES ABOVE ARE SOLID, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

PAVEMENT REPAIR NOTES

1. CONTRACTOR SHALL SAW CUT OR MILL ALL PAVEMENTS STRAIGHT AND TRUE PRIOR TO TRENCHING. CONTRACTOR SHALL SAW CUT PATCH AREAS AGAIN IMMEDIATELY PRIOR TO PATCH PAVING . THE FINAL SAW CUT FOR PATCHES SHALL BE STRAIGHT WITH A NEAT SQUARE EDGE AND OF UNIFORM WIDTH PARALLEL WITH THE EDGE OF PAVEMENT/CURB LINE. THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
2. CONTRACTOR SHALL SWEEP STREETS AND PROVIDE DUST CONTROL AT ALL TIMES VIA WATER TRUCK, BROOMS, COMPACTORS, ETC. DEBRIS FROM SWEEPING OPERATIONS SHALL NOT BE DIRECTED TOWARD YARDS. CLEAN UP OF DEBRIS, TRASH, EXCESS MATERIALS, ETC. SHALL BE PERFORMED DAILY.
3. ANY TRENCHES OPENED FOR PAVING SHALL BE PAVED BY THE END OF THE SAME DAY. IF WEATHER CONDITIONS CHANGE, EQUIPMENT BREAKS DOWN, OR ANY OTHER OCCURRENCE THAT STOPS THE PAVING OPERATIONS OCCURS, BACKFILL ALL PREPARED AREAS SO THEY ARE PASSABLE BY TRAFFIC.
4. THE CONTRACTOR SHALL PATCH PAVE SERVICE LATERALS ON THE SAME DAY THAT MAIN LINE TRENCHES ARE PAVED. LATERALS SHALL BE PATCHED ON BOTH SIDES OF THE STREET AS PAVING PROGRESSES.
5. THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT PROPER TRAFFIC CONTROL PROVISIONS AND ANY DEVICES REQUIRED TO IDENTIFY OBSTRUCTIONS OR HAZARDS WITHIN THE RIGHT-OF-WAY TO INCLUDE REFLECTIVE CONES AT EACH SERVICE LATERAL, REFLECTIVE BARRELS ON RAISED MANHOLES, ETC.
6. AT NO TIME SHALL THE CONTRACTOR LEAVE MAIN AND/OR LATERAL TRENCHES WITH A VERTICAL ELEVATION DROP EXCEEDING ONE INCH (1") FROM EXISTING ASPHALT TO TRENCH SUB GRADE UNATTENDED, UNSECURED, AND/OR OVERNIGHT.

PAVEMENT REPAIR NOTES			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. M.1	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	PWC	1	07/10	REVISED, DELETED NOTES
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.					

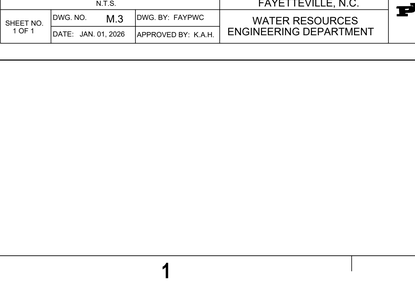
M1-PAVEMENT-REPAIR-NOTES.dwg



NOTES:
1. CONTRACTOR SHALL PATCH PAVEMENT TO THE SAME PAVEMENT PROFILE AND SHAPE AS EXISTED PRIOR TO REMOVING PAVEMENT.
2. CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE M.U.T.C.D. OR NC SUPPLEMENT. WORK CANNOT PROCEED UNTIL THE MEASURES ARE IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT NEW PAVEMENT FROM TRAFFIC AND OTHER SOURCES OF DAMAGE UNTIL ASPHALT HAS SUFFICIENTLY COOLED TO PREVENT DAMAGE.
3. CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT STRAIGHT AND TRUE IMMEDIATELY PRIOR TO PAVING. THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
4. UNDER NO CIRCUMSTANCES SHALL THE DISTURBED AREA EXTEND BEYOND THE RIGHT-OF-WAY AND/OR THE EASEMENT LIMITS.

ASPHALT DRIVEWAY/ PARKING LOT PATCH N.T.S			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. M.4	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	PWC	1	08/10	REVISED, DELETED NOTES
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.					

M4-ASPH-DRIVE-PATCH.dwg



NOTES:
1. CONTRACTOR SHALL PATCH PAVEMENT TO THE SAME PAVEMENT PROFILE AND SHAPE AS EXISTED PRIOR TO REMOVING PAVEMENT.
2. CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE M.U.T.C.D. OR NC SUPPLEMENT. WORK CANNOT PROCEED UNTIL THE MEASURES ARE IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT NEW PAVEMENT FROM TRAFFIC AND OTHER SOURCES OF DAMAGE UNTIL ASPHALT HAS SUFFICIENTLY COOLED TO PREVENT DAMAGE.
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ASPHALT DRIVEWAY/ PARKING LOT PATCH N.T.S			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. M.4	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	PWC	1	08/10	REVISED, DELETED NOTES
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.					

M4-ASPH-DRIVE-PATCH.dwg

NOTES:
1. HEIGHT OF FENCE SHALL BE 6 FEET, UNLESS OTHERWISE APPROVED BY FAYPWC.
2. USE OF COATED AND/OR PLASTIC COATED FABRIC MAY BE REQUIRED TO MATCH EXISTING FENCING. COLOR AND TYPE OF FABRIC TO BE APPROVED BY FAYPWC.
3. WIDTH OF FENCE AND/OR GATES SHALL BE AS APPROVED BY FAYPWC.
4. FAYPWC TO PROVIDE LOCK AND CHAIN.
5. LOCATION OF GATE WITHIN FAYPWC EASEMENT TO BE AS DIRECTED AND APPROVED BY FAYPWC.

TYPICAL CHAIN LINK GATE AND FENCING N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. M.17	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	PWC			
	DATE : JAN. 01, 2026	APPROVED BY: K.A.H.					

M17-TYPICAL-CHAINLINK-GATE-AND-FENCE.dwg

NOTES:
1. CONTRACTOR SHALL PATCH PAVEMENT TO THE SAME PAVEMENT PROFILE AS EXISTED PRIOR TO REMOVING PAVEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THIS DETAIL.
2. WHERE PATCH OF ASPHALT CURBING OCCURS CONTRACTOR SHALL MATCH EXISTING CURB GRADES WITHIN 0.02 FEET. PATCHES THAT ARE ABOVE THE CURB GRADE LINE WILL NOT BE ACCEPTABLE AND SHALL BE REMOVED AND REPLACED. CURB PATCH SHALL BE THE SAME SHAPE/TEMPLATE AS THE EXISTING CURB.
3. CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE M.U.T.C.D. OR NC SUPPLEMENT. WORK CANNOT PROCEED UNTIL THE MEASURES ARE IN PLACE.
4. CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT STRAIGHT AND TRUE IMMEDIATELY PRIOR TO PAVING. THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
5. PATCH PAVING ON NCDOT MAINTAINED ROADS SHALL BE IN ACCORDANCE WITH THE APPROVED NCDOT ENCROACHMENT. REFER TO FAYPWC STANDARD DETAIL M.19 FOR NCDOT PATCH PAVING REQUIREMENTS.

TEMPORARY PAVEMENT PATCH N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. M.3	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	PWC	1	01/07	CHANGED ASPHALT MIX
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.			2	08/10	REVISED, DELETED NOTES
					3	10/16	EDITED I-19.0 ASPHALT CONCRETE

M3-TEMP-PATCH.dwg

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CIVIL
TIMMONS
5410 TRENITY ROAD
SUITE 102
919.866.4951
STRUCTURAL
LYNCH MYKINS / IMEG
301 N. WEST STREET
SUITE 105
919.782.1833
MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
CONSULTANT 3 PHONE

CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:

Drawing
SITE NOTES & DETAILS

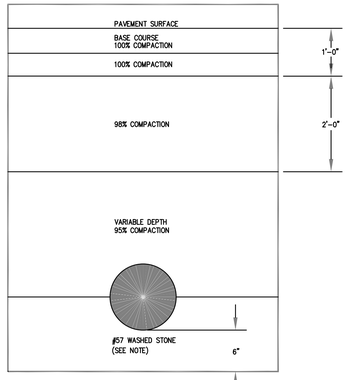
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NOT FOR CONSTRUCTION

2026-07-22
SCHEMATIC DESIGN PROGRESS

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NOTES:

1. STONE BEDDING FOR PIPE IS REQUIRED UNLESS OTHERWISE APPROVED BY CITY ENGINEER OR THEIR DESIGNEE.

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TYPICAL STORM DRAIN COMPACTION

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Review Date: JULY 2024

DR-1

NOTES:

1. EXCAVATE ALL MATERIAL FROM AROUND CASTING TO A WIDTH OF 12" AND TO A DEPTH OF AT LEAST 2" BELOW EXISTING BRICKWORK OR EXISTING STRUCTURE. REMOVE AND DISPOSE OF ALL LOOSE MATERIAL.

2. DETERMINING THE CASTING ADJUSTMENT: THE HEIGHT OF CASTING ADJUSTMENT SHALL BE DETERMINED BY THE USE OF A STRING LINE. THE STRING LINE IS TO BE PULLED ACROSS CASTING AND FOR AT LEAST 10FT ON EACH SIDE OF CASTING PARALLEL TO CURB. HOLD STRING AT A HEIGHT OF ADJUSTMENT. EXAMPLE: 1" ABOVE EXISTING PAVEMENT FOR RESURFACING AND/OR 2" ABOVE SAND/CLAY OR STONE BASE. THEN STRING IS PULLED PERPENDICULAR ACROSS CASTING FROM EDGE OF PAVEMENT AT CURB TO CENTERLINE OF STREET. THE STRING SHALL BE SET AT SAME ADJUSTMENT HEIGHT. EVERY EFFORT SHALL BE TAKEN TO ENSURE THAT THE SURFACE COURSE AND CASTING SHALL PROVIDE AS SMOOTH A RIDE AS POSSIBLE.

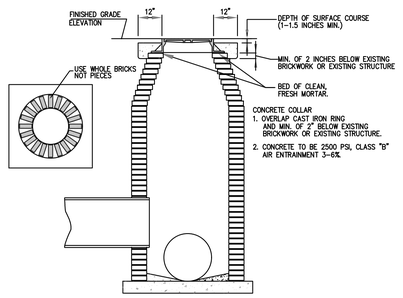
3. ADJUSTMENT OF CASTING BY RAISING: ALL BRICKS ARE TO BE PLACED IN "SPOKE" PATTERN AND LAID IN A BED OF CLEAN FRESH MORTAR. THEN CONTRACTOR IS TO ENSURE ALL BRICKS ARE SET FIRM TO ELIMINATE MOVEMENTOF CASTING.

4. ADJUSTMENT OF CASTING BY LOWERING: ALL BRICKS AND CONCRETE ARE TO BE CUT AWAY, LEAVING A SMOOTH SURFACE. A CAP OF CLEAN FRESH MORTAR SHALL BE APPLIED TO SURFACE AS A SETTING BED FOR CASTING.

5. THE CASTING IS THEN PLACED BACK ON BRICKS AND CARE SHALL BE TAKEN TO ENSURE THAT IT IS SET ON BED OF CLEAN FRESH MORTAR TO ELIMINATE MOVEMENT. MORTAR SHALL MEET REQUIREMENTS OF NCDOT STANDARD SPECIFICATIONS SECTION 1040-9 FOR MORTAR AND SECTION 1014-1 FOR MORTAR SAND.

6. THE EXCAVATED AREA SHALL THEN BE BACKFILLED WITH CLASS 'B' PORTLAND CEMENT CONCRETE LEVEL TO EXISTING SURFACE. THE TOP OF CONCRETE SHALL THEN BE STRUCK SMOOTH WITH EXISTING SURFACE. CASTING TO BE CLEANED OF ANY CONCRETE SPILLAGE. ASPHALT SHALL NOT BE USED TO BACKFILL AROUND CASTING.

7. ALL ADJUSTMENTS SHALL THEN BE PROTECTED FOR AT LEAST 72 HOURS BEFORE THE PLACEMENT OF ANY SURFACING MATERIAL. A FINISH SURFACE TOLERANCE SHALL NOT VARY MORE THAN ¼ INCH IN ANY DIRECTION.

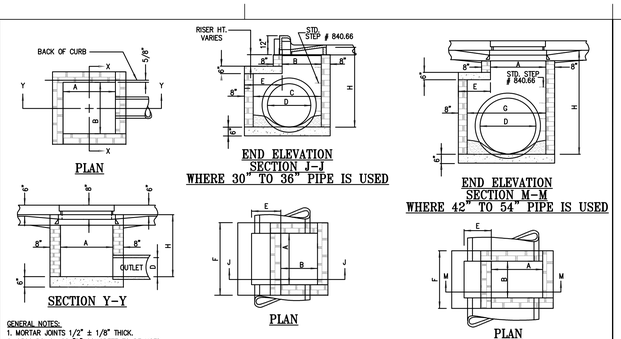


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STANDARD MANHOLE ADJUSTMENT CONCRETE COLLAR (NEW AND EXISTING MANHOLES)

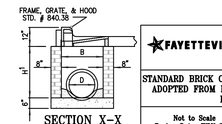
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DR-2



GENERAL NOTES:

1. MORTAR JOINTS 1/2" ± 1/8" THICK.
2. 2500 PSI CLASS "B" CONCRETE TO BE USED.
3. USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
4. DEDUCT FOR PIPE(S) TOTAL CU. YDS. OF BRICK MASONRY.
5. USE #4 BAR DOWELS AT 12" CENTERS FOR ALL PIPE SIZES.
6. ALL CATCH BASINS OVER 3'-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 12" ON CENTERS.
7. USE TYPE "E", "I", & "G" GRATE UNLESS OTHERWISE INDICATED.
8. JUMBO BRICK MILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICKS.
9. FOR 8'-0" IN HEIGHT OR LESS USE 8" WALL. OVER 8'-0" IN HEIGHT USE 12" WALL TO 6'-0" FROM TOP OF WALL, 8" WALL FOR THE UPPER 6'-0".
10. INVERTS SHALL BE SHAPED TO FORM A SMOOTH, REGULAR SURFACE, SLOPED TO PREVENT SEDIMENTATION.
11. FOR VARIABLE DIMENSIONS, SEE STANDARD DETAIL DR-3.1.
12. CONSTRUCT WITH PIPE CROWNS MATCHING.
13. CHAMFER ALL EXPOSED CORNERS 1".



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STANDARD BRICK CATCH BASIN (12" - 54" PIPE) ADOPTED FROM NCDOT STANDARD NO. 840.01 PAGE 1 OF 2

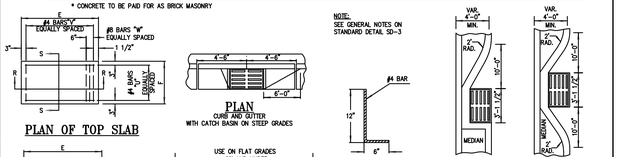
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DR-3

DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN
(LOCATION OF SOME VARIABLES SHOWN IN STANDARD DETAIL SD-3)

DIMENSIONS OF BOX AND PIPE						COVER	REINFORCING							* CUBIC YARDS OF CONCRETE IN BOX			BRICK MASON		DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	HEIGHT	DIMENSION	BARS-U		BARS-V		BARS-W		TOTAL				BRICK MORTAR/TOTAL BRICK IN WALLS & CONCRETE			
D	A	B	C	G	H	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	LBS.	TOP SLAB	FLOOR	TOTAL			C.M.	R.C.
12"	1'-0"	2'-2"	–	–	2'-0"	–	–	–	–	–	–	–	–	–	0.281	0.281	0.883	1.164	0.0200	0.042
15"	1'-0"	2'-2"	–	–	2'-3"	–	–	–	–	–	–	–	–	–	0.281	0.281	0.963	1.244	0.0308	0.047
18"	1'-0"	2'-2"	–	–	2'-6"	–	–	–	–	–	–	–	–	–	0.281	0.281	1.043	1.324	0.0442	0.065
24"	1'-0"	2'-2"	–	–	3'-0"	–	–	–	–	–	–	–	–	–	0.281	0.281	1.204	1.485	0.0784	0.121
30"	1'-0"	2'-2"	3'-4"	–	3'-6"	1'-2"	4	1'-8"	3	4'-1"	3	4'-1"	45	0.147	0.374	0.521	1.606	0.237	0.1224	0.184
36"	1'-0"	2'-2"	4'-10"	–	4'-0"	1'-8"	4	2'-0"	4	4'-1"	3	4'-1"	49	0.187	0.415	0.602	1.914	2.516	0.1760	0.261
42"	1'-0"	2'-2"	–	4'-4"	4'-3"	2'-0"	4	2'-3"	3	4'-1"	3	4'-1"	38	0.135	0.373	0.508	2.152	2.660	0.2400	0.377
48"	1'-0"	2'-2"	–	4'-10"	4'-6"	2'-3"	4	2'-6"	3	4'-1"	3	4'-1"	41	0.173	0.410	0.583	2.415	2.998	0.3131	0.477
54"	1'-0"	2'-2"	–	5'-4"	4'-9"	2'-6"	4	2'-9"	3	4'-1"	3	4'-1"	47	0.201	0.448	0.649	2.808	3.457	0.3958	0.596

* CONCRETE TO BE PAID FOR AS BRICK MASONRY



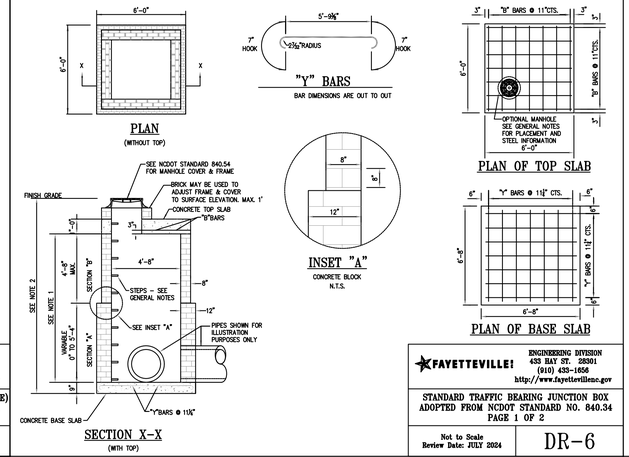
CATCH BASIN INSTALLATION IN MEDIAN WHERE 2'-6" "X6" CURB IS USED
(NOT-TO-BE USED ON FEDERAL-AID PROJECT)

STANDARD BRICK CATCH BASIN (12" THRU 54" PIPE) ADOPTED FROM NCDOT STANDARD NO. 840.01 PAGE 2 OF 2

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STANDARD TRAFFIC BEARING JUNCTION BOX ADOPTED FROM NCDOT STANDARD NO. 840.34 PAGE 1 OF 2

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DR-6

GENERAL NOTES:

STANDARD OR JUMBO BRICK SHALL BE USED FOR WALL CONSTRUCTION. SOLID CONCRETE BRICK OR BLOCK ARE OPTIONAL WALL CONSTRUCTION MATERIAL.

PRECAST UNITS MADE OF CLASS "AA" CONCRETE MAY BE USED IN LIEU OF BRICK MASONRY CONSTRUCTION. DESIGN OF PRECAST UNITS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.

ALL ADJUSTMENTS TO WALLS, SLABS OR REINFORCING MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH UNIT.

OPTIONAL MANHOLE SHALL BE INSTALLED IN POSITION AS DIRECTED BY THE ENGINEER. ALL REBAR CROSSING THIS OPENING SHALL BE CUT OR BENT TO ALLOW 2" MINIMUM CONCRETE COVERAGE. THE OPENING SHALL BE ENCLOSED WITH 8 "A" BARS TIED TO THE REBAR MAT AND SET SO A MINIMUM OF A 3" CONCRETE COVERAGE IS OBTAINED. REFERENCE NCDOT STD. NO. 840.54 FOR ALL MANHOLE INFORMATION.

JUNCTION BOXES OVER 3'-6" IN DEPTH WITH MANHOLES SHALL REQUIRE STEPS TO BE PLACED ON 12" - 16" CENTERS. REFERENCE NCDOT STD. NO. 840.66.

DOWEL "C" BARS SHALL BE SPACED AT A MINIMUM OF 12" CENTERS.

MAXIMUM DEPTH OF THIS UNIT AS SHOWN IS 12'.

BILL OF MATERIALS					
BAR	QTY.	SIZE	LENGTH	WEIGHT
A	8	#5	5'-7"	9.7
B	14	#5	11'-2"	20.1
C	26	#4	11'-6"	28.1
Y	14	#5	14'-11 3/8"	181.5
STEEL TOTAL WEIGHT				217.6
CU. YDS. CLASS "AA" CONC.				2.6
CU. YDS. BRICK/FT. HT. (8')				0.53
CU. YDS. BRICK/FT. HT. (12')				0.84

NOTE 1: SECTION "B" OF THE PROPOSED WALL SHALL BE 8" THICK. SECTION "A" SHALL BE 12" THICK.

NOTE 2: IF PROPOSED STRUCTURE EXCEEDS 12'-0" VERTICAL HEIGHT A DESIGN WILL BE REQUIRED FOR APPROVAL.

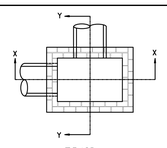
NOTE 3: ALL REINFORCING STEEL SHALL BE SINGLE MAT; EXCEPT DOUBLE MAT STEEL MAY BE USED IN LIEU OF HOOK BARS IN BASE SLAB.

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STANDARD TRAFFIC BEARING JUNCTION BOX ADOPTED FROM NCDOT STANDARD NO. 840.34 PAGE 2 OF 2

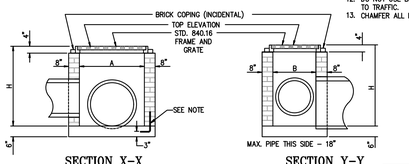
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DR-6.1



GENERAL NOTES:

1. MORTAR JOINTS 1/2" +/- 1/8" THICK.
2. USE CLASS "B" CONCRETE THROUGHOUT.
3. USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
4. USE #4 BAR DOWELS AT 12" CENTERS.
5. DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
6. PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
7. USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
8. IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
9. FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE UPPER 6'-0". QUANTITES TO BE ADJUSTED ACCORDINGLY.
10. CONSTRUCT WITH PIPE CROWNS MATCHING.
11. SEE NCDOT STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES.
12. DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TO TRAFFIC.
13. CHAMFER ALL EXPOSED CORNERS 1".





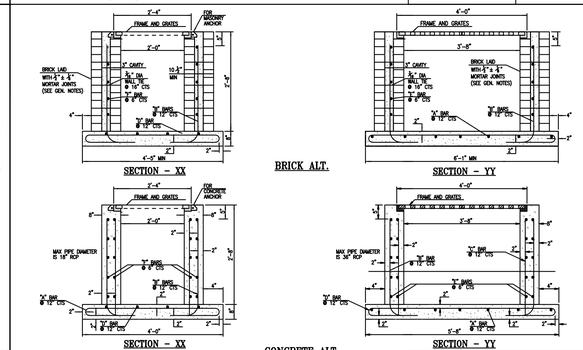
DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)							
DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONCRETE	CUBIC YARDS BRICK MASONRY		DEDUCTIONS FOR ONE PIPE
PIPE	SPAN	WIDTH	MIN. HEIGHT		TOTAL BRICK MASONRY FOR MIN. HEIGHT, H		
D	A	B	H	BOTTOM SLAB	WALL PER FOOT HT.	C.S.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.268	0.313	0.522	0.020	0.032
15"	/	/	2'-3"	0.268	0.313	0.600	0.031	0.047
18"	/	/	2'-6"	0.268	0.313	0.678	0.044	0.065
24"	/	/	3'-0"	0.268	0.313	0.835	0.078	0.113
30"	3'-0"	2'-0"	3'-6"	0.268	0.313	0.991	0.122	0.170

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DROP INLET WITH GRATE 12" TO 30" PIPE ADOPTED FROM NCDOT STANDARD NO. 840.15

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DR-11



GENERAL NOTES:

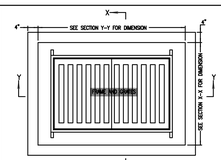
1. HORIZONTAL AND VERTICAL DIMENSIONSMAY BE ADJUSTED AS THE FIELD CONDITIONS AND/OR ALTERNATE DESIGN REQUIRE.
2. MAXIMUM HEIGHT FO THIS STRUCTURE IS 14'-0".
3. MAKE ALL ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
4. DEPTH OF STEEL GRATE WILL REQUIRE DEEPER SEAT ALONG SHORT WALLS.

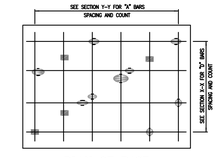
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TRAFFIC BEARING DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES ADOPTED FROM NCDOT STANDARD NO. 840.35 PAGE 1 OF 2

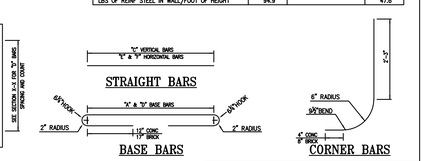
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DR-17





BILL OF MATERIALS							
COMMON		CONCRETE ALT.			BRICK ALT.		
BAR	SIZE	LENGTH	QUANTITY	WEIGHT	LENGTH	QUANTITY	WEIGHT
A	#5	6'-4⅝"	6	39.9	7'-7⅝"	6	47.7
B	#5	3'-4⅝"	16	56.3	3'-4⅝"	16	56.3
C	#5	2'-8"	14	38.9	0	0	0
D	#5	6'-0⅝"	4	33.6	9'-3⅝"	4	38.8
E	#5	3'-0"	20	62.6	3'-0"	10	31.3
F	#5	4'-8"	20	97.3	4'-8"	10	48.7
REINF STEEL (TOTAL WEIGHT LBS)				328.6			222.8
CONCRETE IN BASE CLASS "AA" (CUBIC YARDS)				0.56			0.66
CONCRETE IN WALLS CLASS "AA" (CUBIC YARDS)				0.92			0
CONCRETE IN WALLS CLASS "S" (CUBIC YARDS)				0			0.36
BRICK IN WALLS (CUBIC YARDS)				0			0.91
CONCRETE TOTAL (CUBIC YARDS)				1.48			1.02
BRICK & CONCRETE TOTAL (CUBIC YARDS)				1.48			1.93
CONC CUBIC YARDS IN WALL/FOOT OF HEIGHT				0.35			0.14
BRICK CUBIC YARDS IN WALL/FOOT OF HEIGHT				0			0.34
LBS OF REINF STEEL IN WALL/FOOT OF HEIGHT				94.9			47.6



GENERAL NOTES:

1. USE CLASS "AA" CONCRETE FOR CAST IN PLACE CONCRETE BOX.
2. USE CLASS "B" CONCRETE IN THE WALL CAVITY FOR REINFORCED BRICK CONSTRUCTION AND CLASS "AA" FOR THE FOOTING BASE.
3. CHAMFER ALL EXPOSED CONCRETE CORNERS 1".
4. USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
5. IF PIPES ARE SET IN THE BASE FOLLOW CONSTRUCTION PROCEDURES SHOWN BY STD DWG DR-6.
6. PRECAST UNITS MADE OF CLASS "AA" CONCRETE MAY BE USED IN LIEU OF BRICK MASONRY CONSTRUCTION.
7. INCLUDE REINFORCING STEEL COST IN THE UNIT OR LINEAR FOOT BID PRICE FOR "MASONRY DRAINAGE STRUCTURE".
8. REFERENCE NCDOT STD DWG 840.25 FOR FRAME ANCHORAGE.
9. CONCRETE BRICK, JUMBO BRICK AND 4" SOLID CONCRETE BLOCK WILL BE PERMITTED.
10. CONCRETE FOR BRICK BOX REFER TO SECTION 00405 OF THE STANDARD SPECIFICATIONS.
11. PROVIDE GRATED DROP INLETS OVER 3'-6" DEEP WITH STEPS SPACED 12" TO 16" ON CENTER.
12. FRAME AND GRATES ARE SEPARATE CONTRACT ITEMS.

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TRAFFIC BEARING DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES ADOPTED FROM NCDOT STANDARD NO. 840.35 PAGE 2 OF 2

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919.782.1833

MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
CONSULTANT 3 PHONE

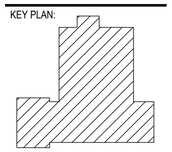
CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



Drawing
STORMWATER
NOTES & DETAILS

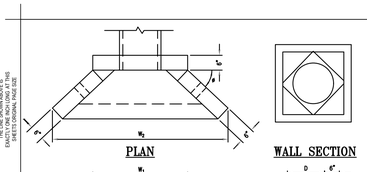
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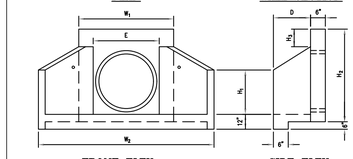
2026-07-22
SCHEMATIC DESIGN PROGRESS

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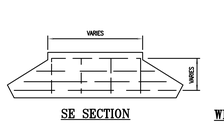


HEADWALL DIMENSIONS FOR CONCRETE PIPE										
PIPE SIZE I.D.	HOLE SIZE	REINF.	W_1	W_2	H_1	H_2	H_3	D	C	#	WT.
12"/15"	19"	#4	3'-0"	5'-0"	1'-3"	3'-3"	12"	1'-3"	1'-9"	40°	1600
18"	27"	#4	3'-6"	6'-1"	1'-9"	3'-7"	12"	1'-6"	2'-3"	40°	2100
21"/24"	33"	#5	4'-3"	7'-3"	2'-0"	4'-3"	12"	1'-10"	2'-9"	40°	2850
27"/30"	39"	#5	4'-9"	8'-4"	2'-4"	4'-9"	12"	2'-2"	3'-3"	40°	3700
36"	48"	#6	5'-8"	10'-0"	2'-3"	5'-8"	12"	2'-11"	4'-4"	40°	5600
42"/48"	56"/57"	#6	6'-7"	12'-6"	2'-6"	6'-8"	12"	3'-4"	5'-3"	40°	7500
54"/60"	72"/67"	#6	8'-0"	15'-4"	3'-0"	8'-0"	15"	3'-4"	7'-3"	50°	10000
66"/72"	91"	#6	8'-6"	13'-4"	4'-3"	9'-0"	27"	3'-4"	7'-5"	50°	10000



GENERAL NOTES:

1. ALL CONCRETE TO BE 4000 PSI MIN.
2. REINFORCEMENT STEEL SHALL MEET ASTM 615 GRADE 60 WITH 2" MIN. CLEARANCE.
3. CHAMFER ALL EXPOSED EDGES 3/4".
4. PRECAST HEADWALL UNIT SHALL BE CAREFULLY POSITIONED ON THE PREPARED FOUNDATION AND PIPE INSERTED INTO HEADWALL OR HEADWALL SLID OVER PIPE AND CHECKED FOR ALIGNMENT.
5. PIPE SHALL BE GROUTED INTO HEADWALL WITH CEMENTITIOUS MATERIAL BY CONTRACTOR. BONDING AGENT MAY BE USED IF REQD.
6. CARE SHALL BE TAKEN DURING BACKFILLING AND COMPACTION TO PREVENT DAMAGE AND MAINTAIN ALIGNMENT. MINOR DAMAGE TO THE UNIT MAY BE REPAIRED BY CONTRACTOR WHEN PERMITTED BY ENGINEER.
7. REINFORCEMENT VARIES WITH SIZE OF UNIT.
8. VARIOUS HOLE SIZE AND SHAPES AVAILABLE BY SPECIAL ORDER.
9. ALL DIMENSIONS ARE NOMINAL.





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PRECAST CONCRETE HEADWALL SYSTEM 12" - 72" PIPE ADOPTED FROM NCDOT STANDARD NO. 838.80

Not to Scale | Review Date: JULY 2024 | DR-18

SIZE IN. D	MIN. SLOPE (FT) RCP	MIN. SLOPE (FT) CMP	CLEARANCE DIST. (FT) RCP	CLEARANCE DIST. (FT) CMP
15	0.00325	0.01107	2.4	2.3
18	0.00255	0.00868	2.7	2.6
24	0.00174	0.00592	3.3	3.1
30	0.00129	0.00439	3.8	3.6
36	0.00101	0.00345	4.3	4.1
42	0.00082	0.00281	4.9	4.6
48	0.00069	0.00235	5.4	5.1

* RCP - REINFORCED CONCRETE PIPE
CMP - CORRUGATED METAL PIPE

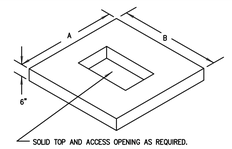
MINIMUM FILL UNDER ROADWAYS	
PIPE CLASS	MINIMUM FILL
CLASS III	2'
CLASS IV	1'
CLASS V	1'
FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE.	

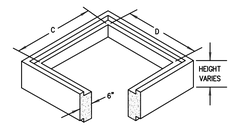
NOTES:
1. THE MAXIMUM PIPE VELOCITY SHALL NOT EXCEED 20 FT PER SEC., BUT SHALL NOT CAUSE SCOUR OR OTHER EROSION PROBLEMS IN THE RECEIVING CHANNEL.
2. SLOPES REQUIRED TO MAINTAIN MINIMUM VELOCITY OF 3 FT PER SEC. AT FULL FLOW.
3. THE MINIMUM SIZE STORM DRAIN PIPE SHALL BE 15 IN.
4. ALL STORM DRAINAGE PIPE USED WITHIN CITY RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP). ALL RCP SHALL BE CLASS III OR HIGHER.
5. A MINIMUM OF 6" OF #57 WASHED STONE IS REQUIRED FOR ALL PIPE INSTALLATION. SEE CITY OF FAYETTVILLE STANDARD DETAIL DR-1.

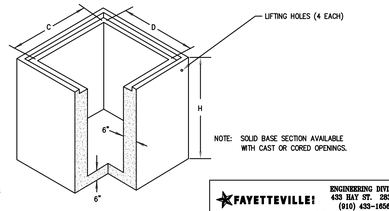
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MINIMUM SLOPE & COVER FOR STORM DRAIN AND CULVERT PIPE

Not to Scale | Review Date: JULY 2024 | DR-19.2







NOTES:
1. CONCRETE 4,000 PSI MINIMUM.
2. REINFORCING STEEL ASTM A-615 GRADE 60.
3. MEETS N.C.D.O.T. APPROVAL TO 10' DEPTH.
4. SOLID BOXES MEET H-20 LOADING TO 15' DEPTH.
5. PRECAST BOXES APPROVED FOR N.C.D.O.T. STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.11, 840.12, 840.14, 840.15, 840.17, 840.18, 840.19,840.26, 840.27, 840.28, 840.31, 840.32, 840.41, 840.45, AND 840.46
6. ANY MODIFICATION TO BOX MAY NULLIFY H-20 LOADING ABILITY.
7. NO WAFFLE BOXES ALLOWED IN CITY RIGHT OF WAY OR EASEMENTS.

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PRECAST CONCRETE SOLID BOX PAGE 1 OF 2

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BOX SIZE	DIMENSIONS A	B	C	D	E	F	H	BASE SECTION MAX. PIPE DIA. C WALL	D WALL
24"X24"	36"	36"	24"	24"	6"	6"	36"		
							2'-6"	12"	12"
24"X44"	36"	56"	24"	44"	6"	6"	3'-6"	18"	18"
							4'-6"	18"	30"
							5'-6"	18"	36"
26"X36"	36"	48"	26"	36"	6"	6"	2'-6"	12"	12"
							3'-6"	18"	18"
							4'-6"	18"	24"
							5'-6"	18"	24"
30"X48"	42"	60"	30"	48"	6"	6"	2'-6"	12"	12"
							3'-6"	18"	18"
							4'-6"	18"	30"
							5'-6"	18"	36"
30"X60"	42"	72"	30"	60"	6"	6"	2'-6"	12"	12"
							3'-6"	18"	18"
							4'-6"	18"	30"
							5'-6"	18"	42"
36"X36"	48"	48"	36"	36"	6"	6"	2'-6"	12"	
							3'-6"	18"	
							4'-6"	24"	
							5'-6"	24"	
48"X48"	60"	60"	48"	48"	10"	10"	2'-6"	12"	
							3'-6"	18"	
							4'-6"	30"	
							5'-6"	36"	
60"X60"	72"	72"	60"	60"	10"	10"	2'-6"	12"	
							3'-6"	18"	
							4'-6"	30"	
							5'-6"	42"	
							6'-6"	48"	

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PRECAST CONCRETE SOLID BOX PAGE 2 OF 2

Rev. Date: 26 JAN 21 | Not to Scale | Review Date: 26 JAN 21 | DR-20.1

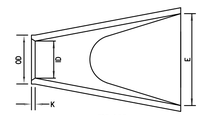
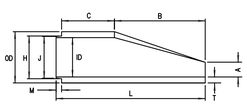


TABLE OF DIMENSIONS												
ID	T	OD	A	B	C	E	H	J	K	M	L	WT.
15"	2-1/4"	19-1/2"	7"	27-1/4"	47-1/2"	30"	17"	18-1/2"	2"	2"	74-3/4"	1038
18"	2-1/2"	23"	9"	27"	47-3/4"	36"	20-1/4"	19-1/2"	2"	2"	74-3/4"	1426
24"	3"	30"	9"	43"	37"	47-3/4"	26-3/4"	26-1/4"	2-13/16"	2-3/4"	80"	2137
30"	3-1/2"	37"	12"	54-1/2"	22-1/2"	60"	33-1/2"	32-1/2"	3"	2-15/16"	77"	2990
36"	4"	44"	18"	60"	37-1/2"	71"	39-3/4"	39"	3-3/4"	3-3/4"	97-1/2"	3860
42"	4-1/2"	51"	22-1/4"	61-3/8"	37"	77-1/4"	46-1/8"	45-1/8"	4-1/4"	4-1/4"	98-3/8"	5160
48"	5"	58"	25-1/4"	70-1/4"	29"	83-1/2"	52-1/2"	51-3/4"	4-1/4"	4-1/4"	99-1/4"	6480
54"	5-1/2"	65-1/4"	28"	65"	39-1/2"	89-3/4"	58-1/4"	57-1/2"	4-1/4"	4-1/4"	104-1/2"	8370
60"	6"	72-1/4"	28-1/2"	57-1/2"	46"	96"	64-3/4"	64"	4-3/4"	4-3/4"	103-1/2"	11650





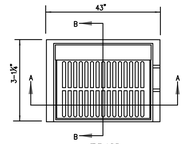
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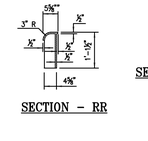
1. REFER TO NCDOT STANDARD SPECIFICATIONS AND DRAWINGS FOR MATERIALS AND INSTALLATION.
2. CONCRETE SHALL BE MINIMUM 4000 P.S.I.

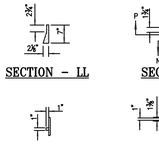
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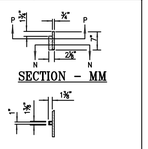
REINFORCED PRECAST CONCRETE FLARED END SECTIONS

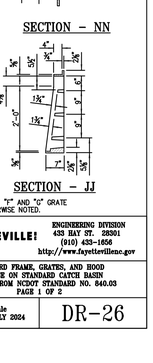
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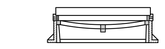


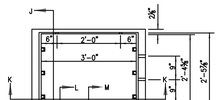




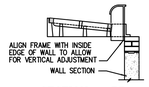


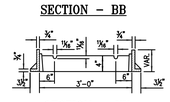


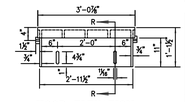




NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.



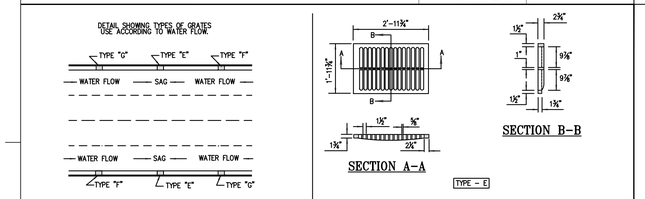


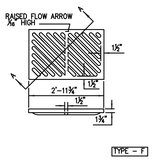


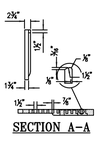
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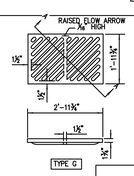
STANDARD FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN ADOPTED FROM NCDOT STANDARD NO. 840.03 PAGE 1 OF 2

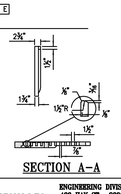
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STANDARD FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN ADOPTED FROM NCDOT STANDARD NO. 840.03 PAGE 2 OF 2

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HCM | Schrader
4208 SIX FORKS ROAD
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CIVIL
TIMMONS
5410 TRINITY ROAD
SUITE 102
919.866.4951
STRUCTURAL
LYNCH MYKINS / IMEG
301 N. WEST STREET
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MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
CONSULTANT 3 PHONE

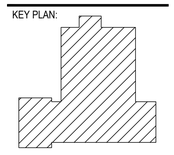
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911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



Drawing
STORMWATER NOTES & DETAILS

C6.5

NOT FOR CONSTRUCTION

2026-07-22
SCHEMATIC DESIGN PROGRESS

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THE SQUARES BEFORE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

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GENERAL NOTES SANITARY SEWER UTILITY (S.1)

1. ALL SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYETTEVILLE FAYPWC STANDARDS.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. CONSTRUCTION STAKING IS REQUIRED FOR ALL FAYPWC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS, SIGNED AND SEALED BY A NC PLS, SHALL BE PROVIDED TO THE FAYPWC WATER RESOURCES ENGINEERING DEPARTMENT AND THE CONTRACTOR IN ADVANCE OF CONSTRUCTION FOR FAYPWC WATER AND SEWER UTILITIES.
4. CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOB SITE. CONSTRUCTION ON FAYPWC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE CONTRACTOR POSSESSES, ON SITE, A SIGNED AND SEALED CUT SHEET FROM THE PROFESSIONAL LAND SURVEYOR.
5. ALL NEW WATER AND SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE TESTED AND/OR DISINFECTED IN ACCORDANCE WITH FAYETTEVILLE FAYPWC STANDARDS PRIOR TO PLACING INTO SERVICE.
6. CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYETTEVILLE FAYPWC PROJECT COORDINATOR.
7. ALL DUCTILE IRON PIPE IN SANITARY SEWER SERVICE SHALL HAVE AN INTERIOR LINING OF PROTECTO 401 OR APPROVED EQUAL.
8. ALL NEW MANHOLES ARE TO BE VACUUM-TESTED IN ACCORDANCE WITH FAYETTEVILLE FAYPWC STANDARDS.
9. CONTRACTOR SHALL REPAIR ALL SEWER LATERALS AND MAINS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY REPORT ALL SEWER MAIN AND LATERAL BREAKS TO THE FAYPWC PROJECT COORDINATOR. THE CONTRACTOR SHALL INITIATE IMMEDIATE REPAIRS IN ACCORDANCE WITH FAYPWC STANDARDS.
10. TRANSFER OF SEWER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
    A. INSTALL AND TEST NEW MAINS, MANHOLES, AND LATERALS. CLEANOUTS SHALL BE INSTALLED 18" INSIDE R/W UNLESS OTHERWISE DIRECTED BY FAYPWC.
    B. CONNECT EXISTING PLUMBING TO NEW LATERAL UTILIZING THE NECESSARY FITTINGS AS DIRECTED BY FAYPWC.
    C. AFTER ALL SERVICES HAVE BEEN TRANSFERRED TO THE NEW MAIN, THE EXISTING SEWER SYSTEM SHALL BE ABANDONED IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
11. CONTRACTOR SHALL ABANDON ("KILL-OUT") ANY EXISTING SEWER SERVICES THAT WILL NOT BE UTILIZED BY UNCOVERING THE EXISTING LATERAL AT THE MAIN, CUT AND PLUG AT BOTH ENDS, REMOVE THE EXISTING CLEANOUT AND COMBINATION, AND PLUG THE TAP OR TEE AT THE MAIN. FOR LATERALS THAT CONNECT TO A MANHOLE AND ARE TO BE ABANDONED ("KILLED-OUT"), THE LATERAL SHALL BE REMOVED FROM THE MANHOLE AND THE REMAINING VOID IN THE MANHOLE SHALL BE FILLED WITH BLOCK AND MORTAR.
12. SEWER PLUGS SHALL BE INSTALLED TO ELIMINATE ANY DEBRIS OR OTHER MATERIAL FROM ENTERING THE ACTIVE SEWER SYSTEM. UPON ACCEPTANCE OF THE NEW SEWER SYSTEM, THE CONTRACTOR SHALL CLEAN THE NEW MAINS, REMOVE ALL DEBRIS, AND THEN REMOVE THE PLUG.
13. ALL EXISTING UTILITIES IMPACTED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE, IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
14. ALL WORK ON FAYPWC SEWER UTILITIES (MAINS, LATERALS, ETC) SHALL BE PERFORMED BY A LICENSED UTILITY CONTRACTOR. THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL OBSERVE AND APPROVE ALL WORK ON FAYPWC SEWER UTILITIES. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
15. SEPARATION REQUIREMENTS:
    A. LATERAL SEPARATION OF SEWER AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWER MAIN/LATERAL, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENTS A 10-FOOT LATERAL SEPARATION - IN WHICH CASE:
       i. THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL; OR
       ii. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER MAIN/LATERAL WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
    B. CROSSING A WATER MAIN OVER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER MAIN/LATERAL, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
    C. CROSSING WATER MAIN UNDER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN/LATERAL, A MINIMUM OF 18-INCHES OF SEPARATION SHALL BE PROVIDED. BOTH THE WATER MAIN AND THE SEWER MAIN/LATERAL SHALL BE CONSTRUCTED OF DUCTILE IRON MATERIAL AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
    D. CROSSING STORM DRAINAGE LINES: A MINIMUM OF 24-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN A SEWER MAIN/LATERAL CROSSING UNDER A STORM DRAINAGE LINE UNLESS DUCTILE IRON PIPE IS USED. IF DUCTILE IRON PIPE IS USED, A MINIMUM OF SIX(6) INCHES OF SEPARATION SHALL BE MAINTAINED, UNLESS OTHERWISE APPROVED BY FAYPWC.

GENERAL NOTES SANITARY SEWER UTILITY | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | WATER RESOURCES ENGINEERING DEPARTMENT | PWC
SHEET NO. 1 OF 1 | DWG. NO. S.1 | DWG. BY: FAYPWC | DATE: JAN. 01, 2026 | APPROVED BY: K.A.H.

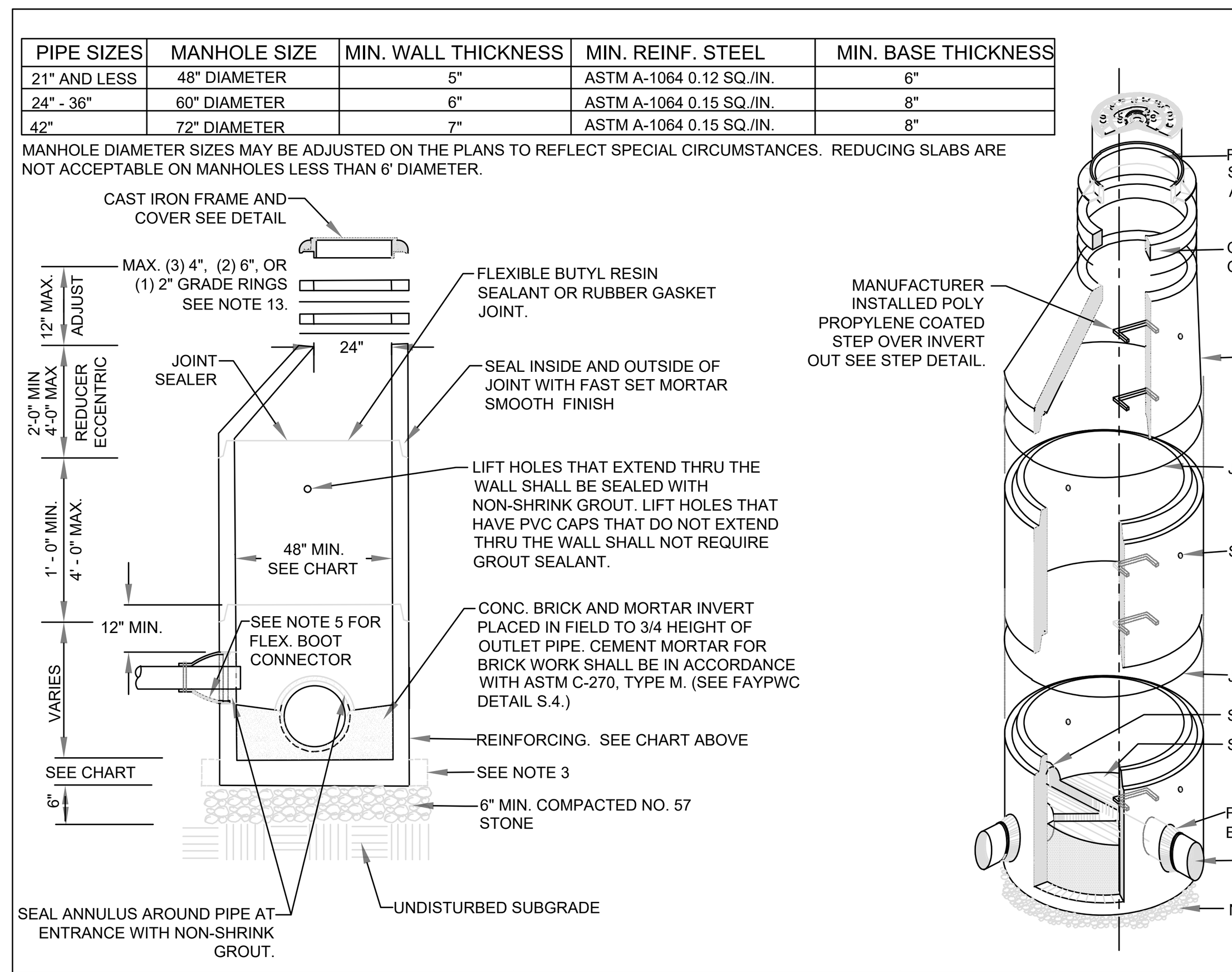
NO.	DATE	REVISION
1	01/18	ADDED NOTES 5, 8
2	06/21	ADDED NOTES 1-8 AND RENUMBERED
3	11/23	REVISED NOTE 15

S1-SEWER-NOTES.dwg

STANDARD MANHOLE (S.2)

PIPE SIZES	MANHOLE SIZE	MIN. WALL THICKNESS	MIN. REINF. STEEL	MIN. BASE THICKNESS
21" AND LESS	48" DIAMETER	5"	ASTM A-1064 0.12 SQ./IN.	6"
24" - 36"	60" DIAMETER	6"	ASTM A-1064 0.15 SQ./IN.	8"
42"	72" DIAMETER	7"	ASTM A-1064 0.15 SQ./IN.	8"

MANHOLE DIAMETER SIZES MAY BE ADJUSTED ON THE PLANS TO REFLECT SPECIAL CIRCUMSTANCES. REDUCING SLABS ARE NOT ACCEPTABLE ON MANHOLES LESS THAN 6' DIAMETER.

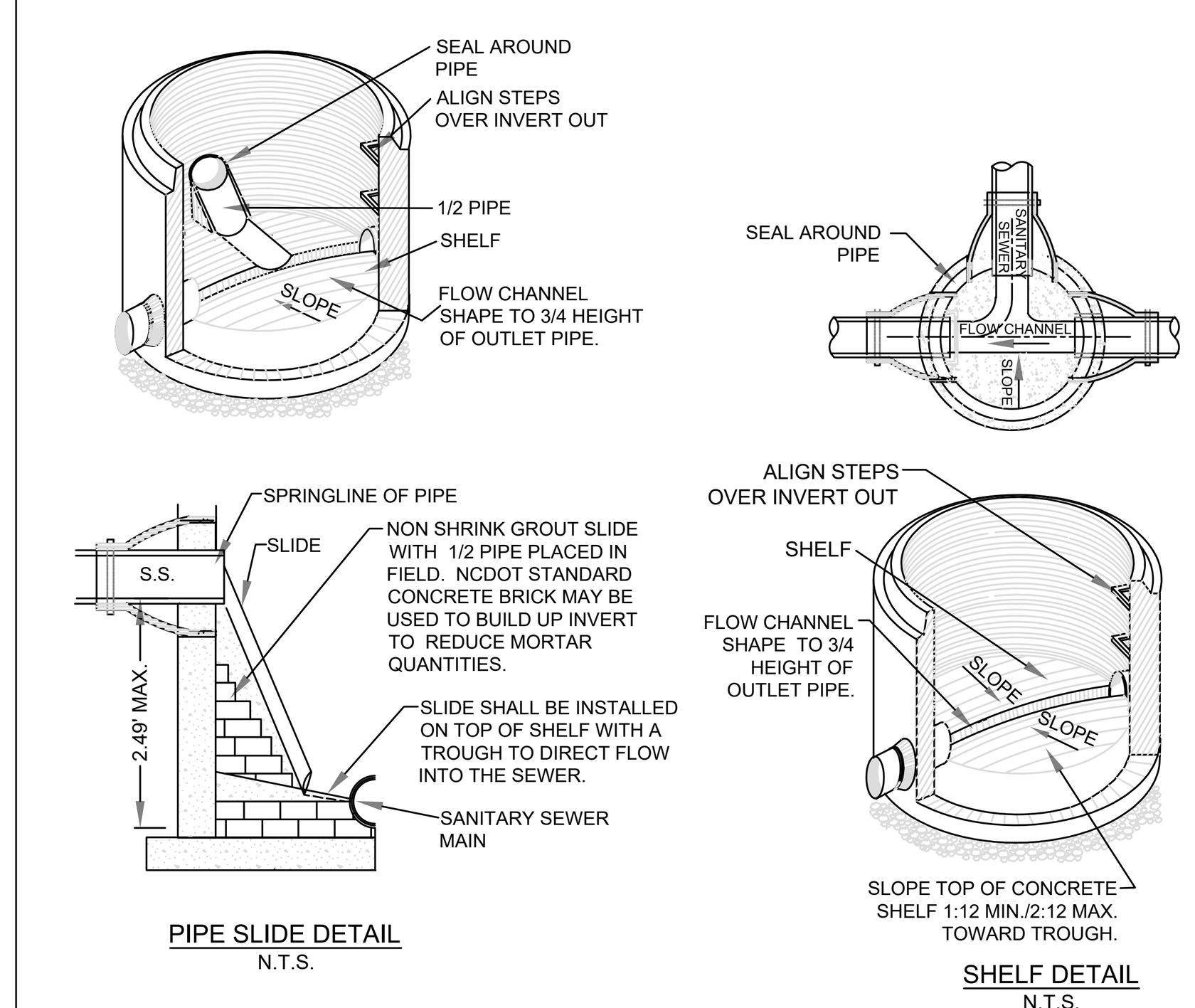


STANDARD MANHOLE N.T.S. | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | WATER RESOURCES ENGINEERING DEPARTMENT | PWC
SHEET NO. 1 OF 2 | DWG. NO. S.2 | DWG. BY: FAYPWC | DATE: JAN. 01, 2026 | APPROVED BY: K.A.H.

NO.	DATE	REVISION
1	02/07	CREATED S.2A ADDED NOTES 13-17
2	07/13	ADDED SHEET 2 OF 2
3	01/01/24	CLARIFIED NOTES REGARDING MORTAR FOR BENCH AND INVERT.

S2-STANDARD-MANHOLE.dwg

PIPE SLIDE AND SHELF DETAILS (S.4)



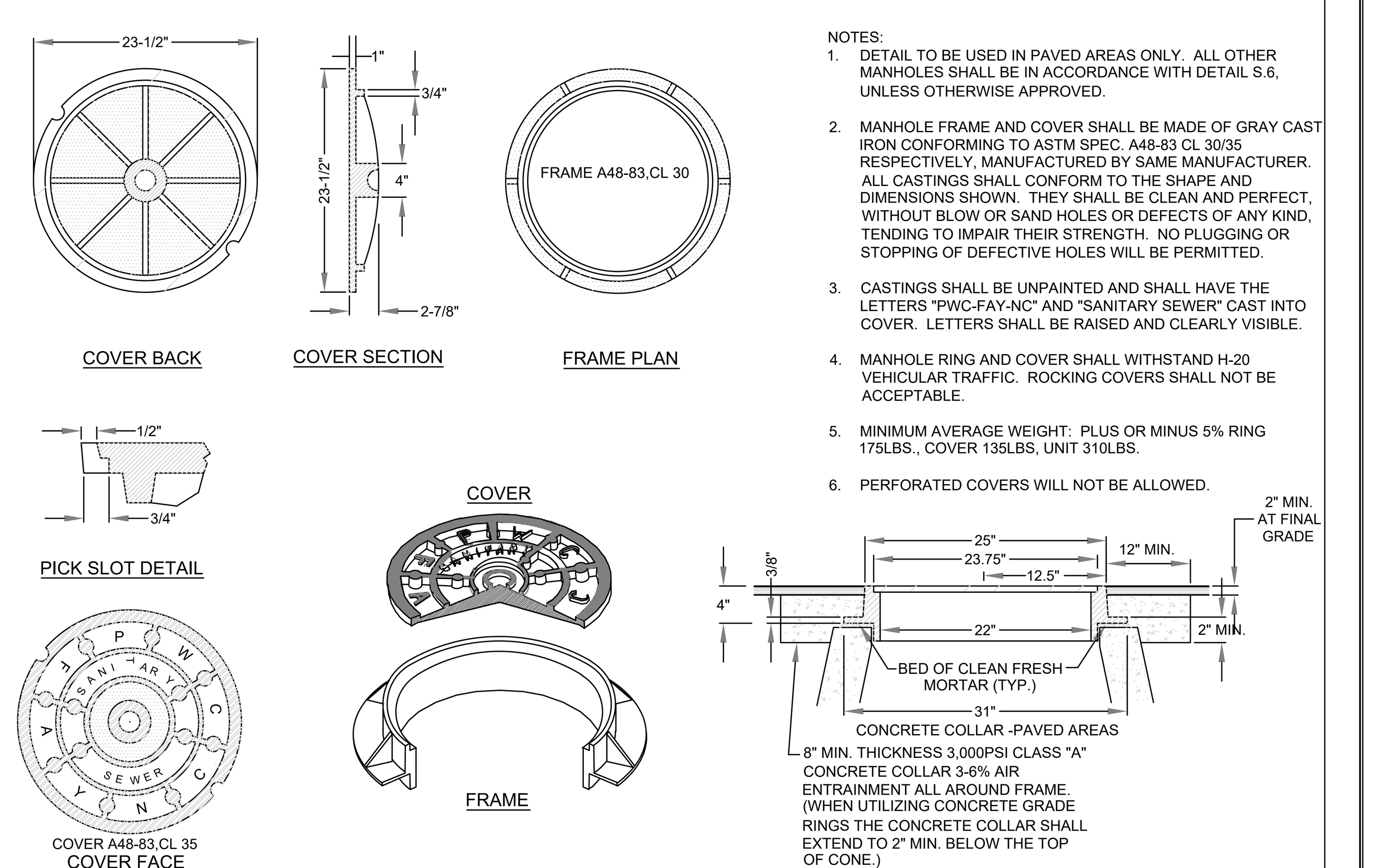
NOTES:
1. PIPE SLIDE REQUIRED WHERE VERTICAL SEPARATION BETWEEN PIPE INVERTS IS LESS THAN 2.5'. FOR LATERAL INVERTS AT OR WITHIN FOUR (4) INCHES OF THE SHELF, CONSTRUCT BENCH AND INVERT AS DIRECTED BY THE FAYPWC PROJECT COORDINATOR.
2. INTERIOR DROP STRUCTURE REQUIRED WHERE VERTICAL SEPARATION BETWEEN INVERTS EQUALS OR EXCEEDS 2.50'. FOR INTERIOR DROP STRUCTURE SEE FAYPWC DETAIL S.5.
3. VERIFY SLIDE INSTALLATION WITH PROJECT COORDINATOR PRIOR TO CONSTRUCTION.
4. MANHOLE AND CONNECTIONS SHALL BE IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
5. BRICK USED FOR INVERT AND SHELF CONSTRUCTION SHALL BE NCDOT STANDARD CONCRETE BRICK.
6. MANHOLES GREATER THAN 12' IN DEPTH SHALL HAVE MINIMUM 6" EXTENDED BASE.
7. THE MINIMUM SLOPE ACROSS THE INVERT OF THE MANHOLE SHALL BE 1% UNLESS OTHERWISE APPROVED BY FAYPWC.
8. DROP AND/OR SLIDE REQUIREMENTS SHALL APPLY TO ALL LATERALS ENTERING MANHOLES AS OUTLINED IN NOTES 1, 2, AND 3. NO MORE THAN 4, FOUR INCH LATERALS OR 3, SIX INCH LATERALS SHALL ENTER A 4' DIAMETER TERMINAL MANHOLE. NO MORE THAN 2 LATERALS (REGARDLESS OF SIZE) SHALL ENTER ALL OTHER 4' DIAMETER MANHOLES. ALL LATERALS SHALL HAVE AN INDIVIDUAL TROUGH. 5' DIAMETER MANHOLES SHALL BE USED IF THE ABOVE CONDITIONS ARE NOT MET. THE INVERT OF THE LATERAL SHALL BE A MINIMUM OF 1" ABOVE THE SHELF.
9. NO MORE THAN 5 LATERALS SHALL ENTER A 5' DIAMETER TERMINAL MANHOLE.
10. USE OF TEE-WYES ON LATERALS IS NOT ALLOWED.

PIPE SLIDE AND SHELF DETAILS N.T.S. | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | WATER RESOURCES ENGINEERING DEPARTMENT | PWC
SHEET NO. 1 OF 1 | DWG. NO. S.4 | DWG. BY: FAYPWC | DATE: JAN. 01, 2026 | APPROVED BY: K.A.H.

NO.	DATE	REVISION
1	01/05	ADDED NOTE 8
2	02/07	REVISED NOTE 8, SLIDE DETAIL, ADDED NOTES 10, 11,12
3	01/18	DELETED MORTAR SLIDE, REVISED NOTES

S4-PSLIDE.dwg

STANDARD TRAFFIC AREA MANHOLE RING AND COVER (S.7)



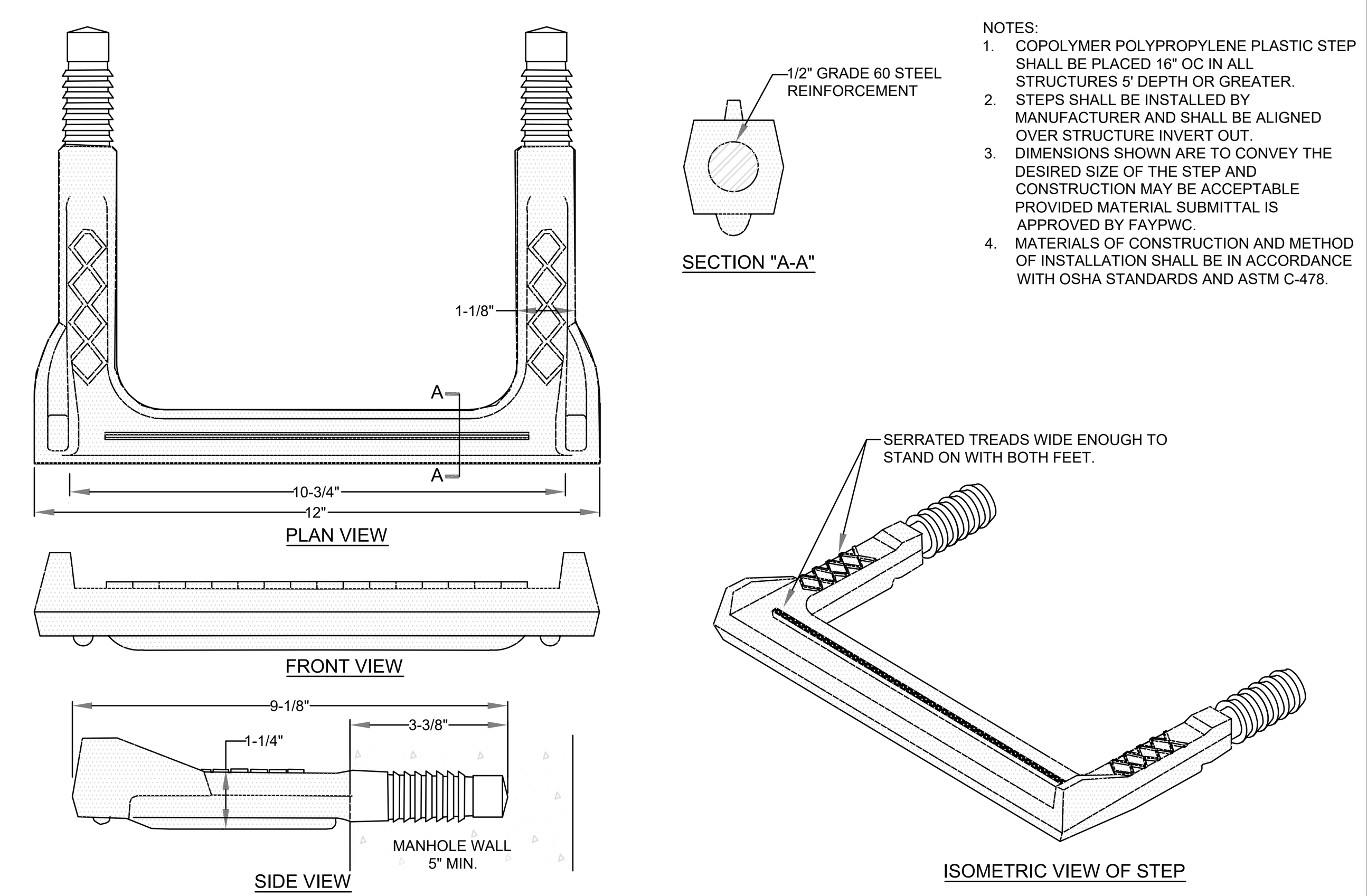
NOTES:
1. DETAIL TO BE USED IN PAVED AREAS ONLY. ALL OTHER MANHOLES SHALL BE IN ACCORDANCE WITH DETAIL S.6, UNLESS OTHERWISE APPROVED.
2. MANHOLE FRAME AND COVER SHALL BE MADE OF GRAY CAST IRON CONFORMING TO ASTM SPEC. A48-83 CL 30/35 RESPECTIVELY, MANUFACTURED BY SAME MANUFACTURER. ALL CASTINGS SHALL CONFORM TO THE SHAPE AND DIMENSIONS SHOWN. THEY SHALL BE CLEAN AND PERFECT, WITHOUT BLOW OR SAND HOLES OR DEFECTS OF ANY KIND, TENDING TO IMPAIR THEIR STRENGTH. NO PLUGGING OR STOPPING OF DEFECTIVE HOLES WILL BE PERMITTED.
3. CASTINGS SHALL BE UNPAINTED AND SHALL HAVE THE LETTERS "PWC-FAY-NC" AND "SANITARY SEWER" CAST INTO COVER. LETTERS SHALL BE RAISED AND CLEARLY VISIBLE.
4. MANHOLE RING AND COVER SHALL WITHSTAND H-20 VEHICULAR TRAFFIC. ROCKING COVERS SHALL NOT BE ACCEPTABLE.
5. MINIMUM AVERAGE WEIGHT: PLUS OR MINUS 5% RING 175LBS., COVER 135LBS, UNIT 310LBS.
6. PERFORATED COVERS WILL NOT BE ALLOWED.

STANDARD TRAFFIC AREA MANHOLE RING AND COVER N.T.S. | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | WATER RESOURCES ENGINEERING DEPARTMENT | PWC
SHEET NO. 1 OF 1 | DWG. NO. S.7 | DWG. BY: FAYPWC | DATE: JAN. 01, 2026 | APPROVED BY: K.A.H.

NO.	DATE	REVISION
1	01/05	CHANGED NON TRAFFIC DETAIL
2	07/06	ADDED NOTE ON CONCRETE COLLAR
3	02/07	REMOVED NON TRAFFIC AREA AND REVISED NOTES
4	07/08	REVISED ASPHALT THICKNESS

S7-RING-COVER.dwg

STRUCTURE STEP (S.8)



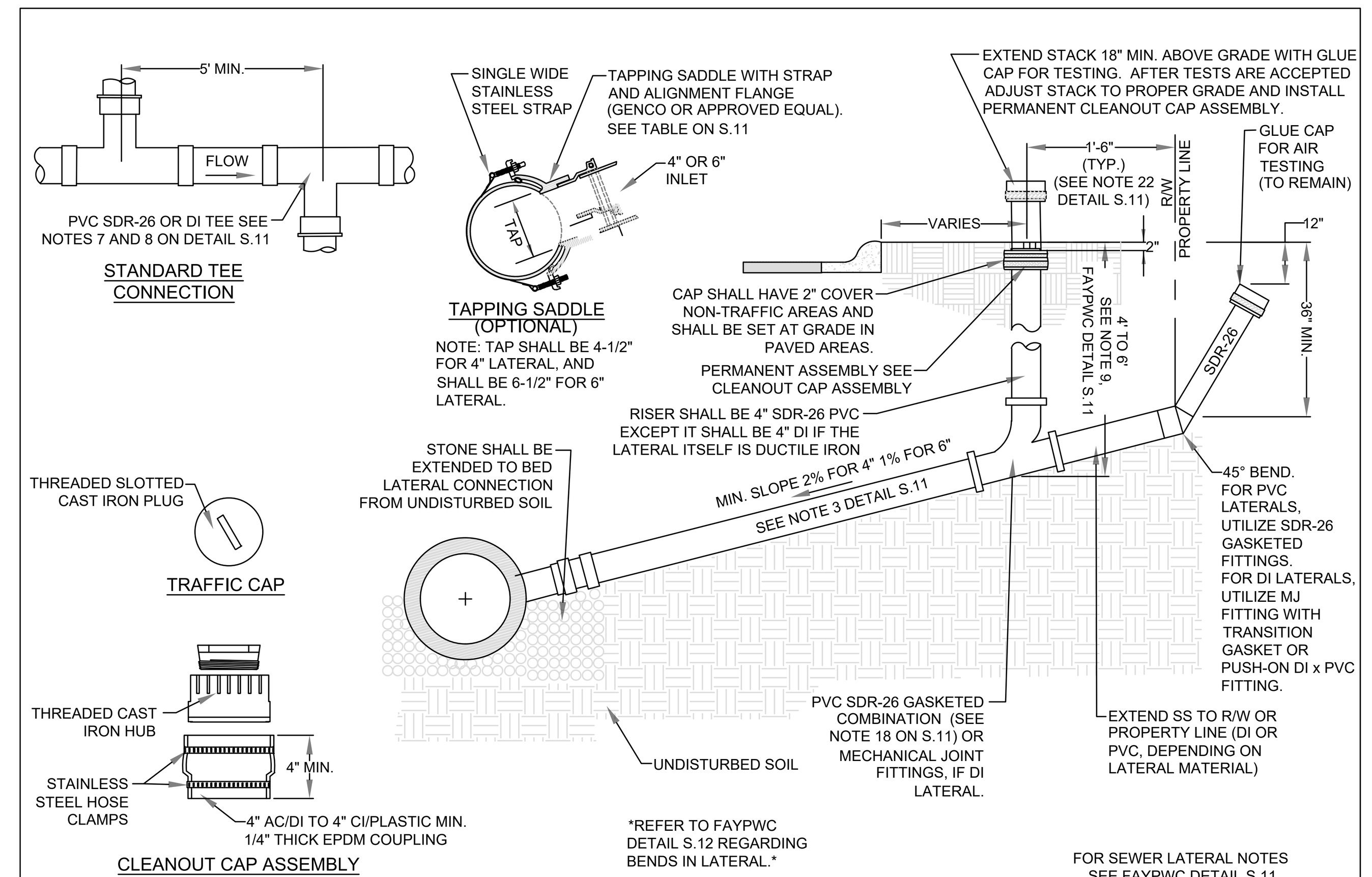
NOTES:
1. COPOLYMER POLYPROPYLENE PLASTIC STEP SHALL BE PLACED 16" OC IN ALL STRUCTURES 5' DEPTH OR GREATER.
2. STEPS SHALL BE INSTALLED BY MANUFACTURER AND SHALL BE ALIGNED OVER STRUCTURE INVERT OUT.
3. DIMENSIONS SHOWN ARE TO CONVEY THE DESIRED SIZE OF THE STEP AND CONSTRUCTION MAY BE ACCEPTABLE PROVIDED MATERIAL SUBMITTAL IS APPROVED BY FAYPWC.
4. MATERIALS OF CONSTRUCTION AND METHOD OF INSTALLATION SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND ASTM C-478.

STRUCTURE STEP N.T.S. | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | WATER RESOURCES ENGINEERING DEPARTMENT | PWC
SHEET NO. 1 OF 1 | DWG. NO. S.8 | DWG. BY: FAYPWC | DATE: JAN. 01, 2026 | APPROVED BY: K.A.H.

NO.	DATE	REVISION

S8-STEP.dwg

SEWER LATERAL (4-INCH AND 6-INCH) (S.10)



REFER TO FAYPWC DETAIL S.12 REGARDING BENDS IN LATERAL.

FOR SEWER LATERAL NOTES SEE FAYPWC DETAIL S.11

SEWER LATERAL (4-INCH AND 6-INCH) N.T.S. | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | WATER RESOURCES ENGINEERING DEPARTMENT | PWC
SHEET NO. 1 OF 1 | DWG. NO. S.10 | DWG. BY: FAYPWC | DATE: JAN. 01, 2026 | APPROVED BY: K.A.H.

NO.	DATE	REVISION
2	01/14	ADDED TAILPIECE, NOTES
3	01/15	REVISED NOTES RE: TAILPIECE
4	07/18	REVISED NOTE RE: LATERAL DEPTH

S10-RESSLAT.dwg

SEWER LATERAL NOTES (S.11)

1. HOLE IN SANITARY SEWER MAIN MUST BE CUT WITH SHELL CUTTER NO HAMMER TAPS ALLOWED.
2. LATERAL SHALL CONFORM TO ASTM SPECS. D-3034 SDR-26 UNLESS OTHERWISE INDICATED AS DI.
3. ALL PIPE AND FITTINGS SHALL BE 4" OR 6" UNLESS OTHERWISE SPECIFIED.
4. ALL DI PIPE SHALL HAVE AN INTERIOR LINING OF CERAMIC EPOXY (PROTECTO 401). THE ENTIRE DI LATERAL SHALL BE COMPRISED OF DI PIPE AND MECHANICAL JOINT FITTINGS.
5. ALL CONNECTIONS SHALL HAVE RUBBER GASKET SEALS INSTALLED.
6. SANITARY SEWER LATERAL CLEANOUT STACK SHALL BE LOCATED 18" FROM WATER LATERAL LOCK VALVE WHEN IN THE SAME DITCH.
7. INSTALLATION OTHER THAN AS SHOWN MUST BE APPROVED BY THE FAYPWC.
8. CONNECTIONS TO THE TOP OF MAIN SHALL NOT BE ALLOWED, UNLESS OTHERWISE APPROVED BY THE FAYPWC PROJECT COORDINATOR.
9. THE DESIGN ENGINEER SHALL DETERMINE THE SLOPE AND DEPTH OF THE LATERAL BASED ON THE TOPOGRAPHY OF THE LOT.
10. LATERAL SHALL CONFORM TO 2% MINIMUM SLOPE FOR 4" OR 1% MINIMUM SLOPE FOR 6". THE MAXIMUM LENGTH OF A SEWER LATERAL SHALL BE 60 FEET, UNLESS OTHERWISE APPROVED BY FAYPWC.
11. SEE INTERIOR DROP STRUCTURE OR SLIDE, MORTAR SLIDE AND SHELF DETAIL FOR VERTICAL DROPS OF MAINS AND LATERALS.
12. LATERALS LESS THAN 3' IN DEPTH OR GREATER THAN 20' DEPTH SHALL UTILIZE DUCTILE IRON PIPE AND FITTINGS WITH CERAMIC EPOXY (PROTECTO 401), OR WHEN SEPARATION REQUIREMENTS CANNOT BE MET.
13. ENTIRE SEWER LATERAL ASSEMBLY SHALL BE AIR TESTED CONCURRENTLY WITH SEWER MAIN.
14. INDIVIDUAL LATERALS SHALL BE CLEANED AND FLUSHED PRIOR TO FLUSHING SANITARY SEWER MAINS.
15. LATERAL SHALL NOT BE BACK-FILLED UNTIL INSPECTED BY THE FAYPWC PROJECT COORDINATOR.
16. WYE CONNECTIONS SHALL NOT BE USED TO TIE LATERALS INTO A MANHOLE.
17. IF BENDS ARE APPROVED BY THE PROJECT COORDINATOR, STONE BEDDING IS REQUIRED TO BE INSTALLED FROM UNDISTURBED (SEE DETAIL S.12) SOIL TO BOTTOM OF BEND.
18. PVC COMBINATION SHALL BE A MOLDED WYE AND BEND, GASKETED, SDR-26, AS MANUFACTURED BY HARCO, GPK, OR APPROVED EQUAL.
19. NO MORE THAN 4, FOUR-INCH LATERALS OR 3, SIX-INCH LATERALS SHALL ENTER A 4' DIAMETER TERMINAL MANHOLE. NO MORE THAN 2 LATERALS (REGARDLESS OF SIZE) SHALL ENTER ALL OTHER 4' DIAMETER MANHOLES. ALL LATERALS SHALL HAVE AN INDIVIDUAL TROUGH. 5' DIAMETER MANHOLES SHALL BE USED IF THE ABOVE CONDITIONS ARE NOT MET.
20. ALL LATERALS (4" AND 6") SHALL UTILIZE A 4" RISER (STACK).
21. REFER TO DETAIL S.12 FOR SEPARATION REQUIREMENTS.
22. FOR SINGLE FAMILY RESIDENTIAL LOTS, CLEANOUT SHALL BE LOCATED 18" FROM RIGHT-OF-WAY OR EASEMENT. FOR ALL NON-SINGLE FAMILY LOTS, CLEANOUT SHALL BE NO CLOSER THAN 10' TO FRONT OF BUILDING, UNLESS OTHERWISE APPROVED BY FAYPWC.

THE FOLLOWING TABLE SUMMARIZES THE MATERIALS TO BE UTILIZED FOR SEWER MAIN TO LATERAL CONNECTIONS:

	PVC Main	DI Main
DI Lateral	DI fitting or approved saddle	MJ fitting or approved saddle
PVC Lateral	PVC fitting or approved saddle	MJ fitting with transition gasket or approved saddle

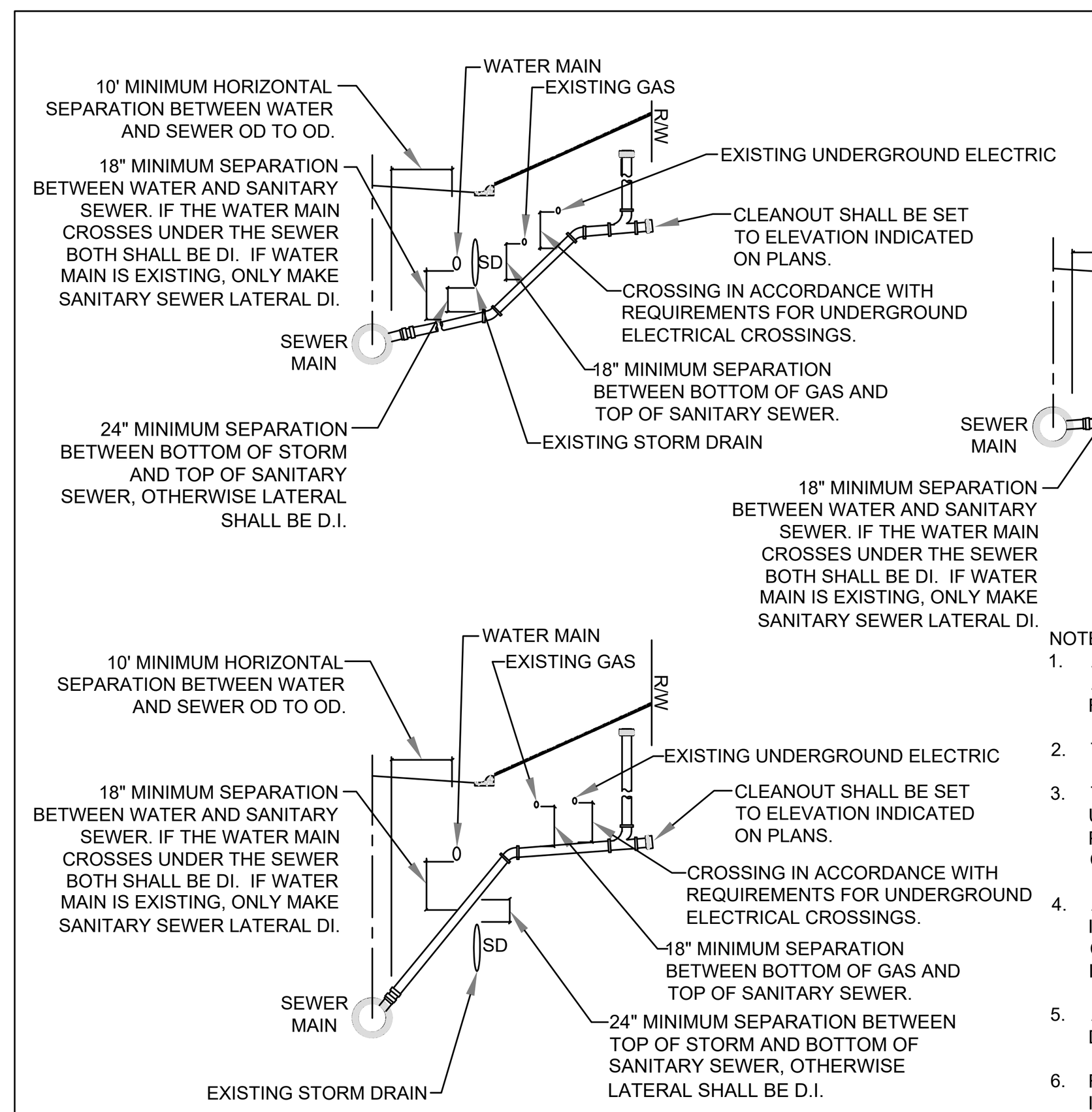
NOTE: REFER TO FAYPWC TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SEWER LATERAL NOTES (4-INCH AND 6-INCH) | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | WATER RESOURCES ENGINEERING DEPARTMENT | PWC
SHEET NO. 1 OF 1 | DWG. NO. S.11 | DWG. BY: FAYPWC | DATE: JAN. 01, 2026 | APPROVED BY: K.A.H.

NO.	DATE	REVISION
3	01/13	REVISED NOTES AND ADDED TABLE
4	01/15	REVISED NOTE 22, TABLE
5	07/18	REVISED NOTES 6, 9

S11-RESSLAT-NOTES.dwg

SEWER LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS (S.12)



NOTES:
1. ALL VERTICAL AND HORIZONTAL SEPARATION SHALL BE IN ACCORDANCE WITH STATE REGULATIONS AND FAYPWC REQUIREMENTS.
2. THE SKETCHES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
3. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY AT EACH CROSSING PRIOR TO CONSTRUCTION OF LATERAL TO ENSURE PROPER CLEARANCES ARE MAINTAINED.
4. ALL PIPE BEND LOCATIONS AND MAXIMUM NUMBER OF BENDS INSTALLED ON LATERALS SHALL BE APPROVED BY THE PROJECT COORDINATOR PRIOR TO INSTALLATION OF BEND OR EXTENDING THE LATERAL FROM THE MAIN.
5. ALL REQUIREMENTS INDICATED IN THE SEWER LATERAL NOTES AND DETAILS SHALL BE APPLICABLE.
6. REFER TO UNDERGROUND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION WHEN CROSSING UNDERGROUND ELECTRICAL FACILITIES.

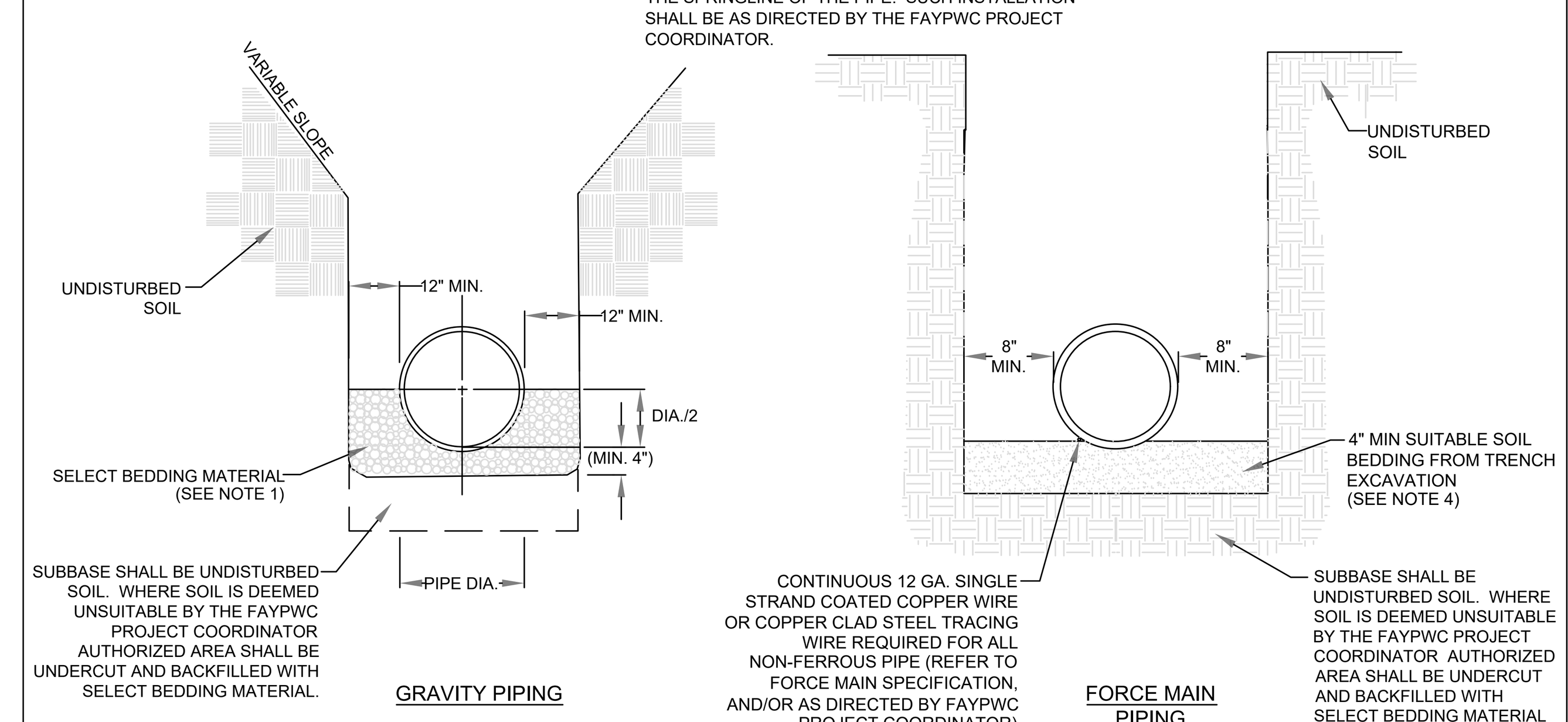
SEWER LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS N.T.S. | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | WATER RESOURCES ENGINEERING DEPARTMENT | PWC
SHEET NO. 1 OF 1 | DWG. NO. S.12 | DWG. BY: FAYPWC | DATE: JAN. 01, 2026 | APPROVED BY: K.A.H.

NO.	DATE	REVISION
1	11/06	ADDED NOTE ON DI LATERALS
2	03/10	ADDED LATERAL AND WM SEPARATION
3	11/23	REVISED/CLARIFIED NOTES

S12-UTIL-CONFLICT.dwg

SEWER BEDDING (S.13)

NOTES:
1. THE SELECT BEDDING MATERIAL SHALL BE WELL GRADED CRUSHED ROCK (NO. 5 OR NO. 57 STONE) FOR THE FULL WIDTH OF THE TRENCH.
2. SELECT BEDDING MATERIAL SHALL EXTEND TO UNDISTURBED TRENCH WALLS.
3. SELECT BEDDING MATERIAL SHALL BE PROPERLY PLACED TO THE SPRING LINE OF THE PIPE FOR ITS ENTIRE LENGTH.
4. SUITABLE SOIL BEDDING IS DEFINED AS "NATIVE" SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH.
5. SUITABLE BEDDING MATERIAL SHALL EXTEND TO UNDISTURBED TRENCH WALLS.
6. IF GROUND CONDITIONS WARRANT, IT MAY BE NECESSARY TO BED DUCTILE IRON FORCE MAINS IN SELECT BEDDING MATERIAL (NO. 5 OR NO. 57 STONE) TO THE SPRINGLINE OF THE PIPE. SUCH INSTALLATION SHALL BE AS DIRECTED BY THE FAYPWC PROJECT COORDINATOR.



SEWER BEDDING N.T.S. | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | WATER RESOURCES ENGINEERING DEPARTMENT | PWC
SHEET NO. 1 OF 1 | DWG. NO. S.13 | DWG. BY: FAYPWC | DATE: JAN. 01, 2026 | APPROVED BY: K.A.H.

NO.	DATE	REVISION
1	01/01/05	REVISED NOTES
2	01/01/16	REVISED NOTES

S13-SEWER-BEDDING.dwg

HCM | Schrader
4208 SIX FORKS ROAD
SUITE 1000
RALEIGH, NC 27609
919.825.4882

CIVIL
TIMMONS
5410 TREINITY ROAD
SUITE 102
919.866.4951

STRUCTURAL
LYNCH MYKINS / IMEG
301 N. WEST STREET
SUITE 105
919.782.1833

MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
CONSULTANT 3 PHONE

CITY OF FAYETTEVILLE 911 CENTER

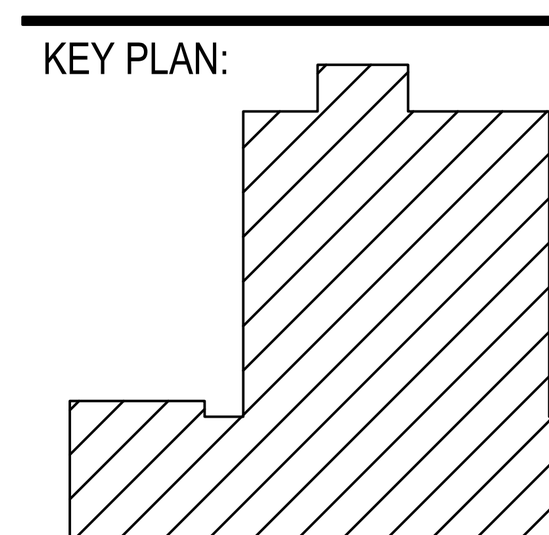
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



Drawing
UTILITY NOTES & DETAILS

C6.6

NOT FOR CONSTRUCTION

2026-07-22
SCHEMATIC DESIGN PROGRESS

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

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THE SQUARES ABOVE ARE SOLID, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

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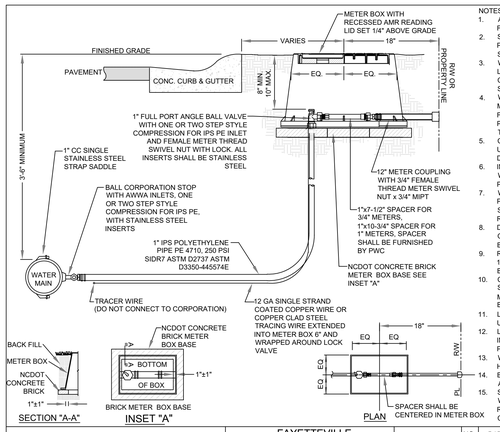
WATER UTILITY NOTES

1. ALL WATER MAINS, LATERALS AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYPWC STANDARDS.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR ALL WATER OUTAGES.
4. CONSTRUCTION STAKING IS REQUIRED FOR ALL FAYPWC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS, SIGNED AND SEALED BY A NC PLS, SHALL BE PROVIDED TO THE FAYPWC WATER RESOURCES ENGINEERING DEPARTMENT AND THE CONTRACTOR IN ADVANCE OF CONSTRUCTION FOR FAYPWC WATER AND SEWER UTILITIES.
5. CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOB SITE. CONSTRUCTION ON FAYPWC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE CONTRACTOR POSSESSES, ON SITE, A SIGNED AND SEALED CUT SHEET FROM THE PROFESSIONAL LAND SURVEYOR.
6. ALL NEW WATER AND SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE TESTED AND/OR DISINFECTED IN ACCORDANCE WITH FAYPWC STANDARDS PRIOR TO PLACING INTO SERVICE.
7. CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYPWC PROJECT COORDINATOR.
8. CONTRACTOR SHALL REPAIR ALL WATER LATERALS AND MAINS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPORT IMMEDIATELY ALL WATER MAIN AND LATERAL BREAKS TO THE FAYPWC PROJECT COORDINATOR. THE CONTRACTOR SHALL INITIATE IMMEDIATE REPAIRS IN ACCORDANCE WITH FAYPWC STANDARDS. CONTRACTOR SHALL NOT OPERATE FAYPWC WATER MAIN VALVES WITHOUT FAYPWC APPROVAL AND SHALL COORDINATE ALL VALVE CLOSINGS WITH FAYPWC.
9. THE CONTRACTOR SHALL NOT USE HOUSE HOSE BIBBS OR ANY OTHER METHOD OF BLOW OFF WHICH ALLOWS DOMESTIC WATER CONTAINING SEDIMENTS OR HIGH LEVELS OF CHLORINE TO PASS THRU RESIDENT'S METERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM ALLOWING "DIRTY" WATER TO ENTER RESIDENT'S PLUMBING SYSTEM, SUCH AS WATER HEATERS, STAINED CLOTHING, CLOGGED SCREENS, ETC.
10. TRANSFER OF WATER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
    - A. INSTALL, TEST AND STERILIZE NEW MAIN AND LATERALS. LATERALS SHALL BE INSTALLED 18" INSIDE RIGHT-OF-WAY UNLESS OTHERWISE DIRECTED BY FAYPWC.
    - B. TRANSFER EXISTING METER TO NEW METER BOX AND TIE NEW WATER LATERAL TO EXISTING DOMESTIC SERVICE UTILIZING BRASS FITTINGS. SAME METER NUMBER SHALL BE INSTALLED ON SAME ADDRESS AND/OR CUSTOMER. BLOW OFF SERVICE AT HOSE BIBB ON HOUSE ONLY AFTER METER HAS BEEN TRANSFERRED.
    - C. AFTER ALL SERVICES ARE TRANSFERRED TO THE NEW SYSTEM, SHUT OFF VALVE ON EXISTING SYSTEM AND ABANDON EXISTING MAINS IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
    - D. CONTRACTOR SHALL SUPPLY NEW METER BOXES AND DISPOSE OF EXISTING METER BOXES.
11. CONTRACTOR SHALL ABANDON ("KILL-OUT") ANY EXISTING WATER SERVICES THAT WILL NOT BE UTILIZED BY CUTTING THE SERVICE AT THE MAIN, PLUGGING THE CORPORATION, AND TURNING OFF THE CORPORATION AT THE METER BOX. THE ABANDONED SERVICE IS TO BE CUT OR CRIMPED, AND BURIED A MINIMUM OF 3 FEET BELOW GRADE.
12. ALL EXISTING UTILITIES IMPACTED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE, IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
13. ALL WORK ON FAYPWC WATER UTILITIES (MAINS, LATERALS, ETC) SHALL BE PERFORMED BY A LICENSED UTILITY CONTRACTOR. THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL OBSERVE AND APPROVE ALL WORK ON FAYPWC WATER UTILITIES. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
14. SEPARATION REQUIREMENTS:
    - A. LATERAL SEPARATION OF SEWERS AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWER MAIN/LATERAL, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION - IN WHICH CASE:
        - i. THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL; OR
        - ii. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER MAIN/LATERAL WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
    - B. CROSSING A WATER MAIN OVER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER MAIN/LATERAL, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
    - C. CROSSING WATER MAIN UNDER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN/LATERAL A MINIMUM OF 18-INCHES OF SEPARATION SHALL BE PROVIDED. BOTH THE WATER MAIN AND THE SEWER MAIN/LATERAL SHALL BE CONSTRUCTED OF DUCTILE IRON MATERIAL AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

WATER UTILITY NOTES	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	PWC
SHEET NO. 1 OF 2 — DWG. NO. W.1 — DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	
DATE: JAN. 01, 2026 — APPROVED BY: K.A.H.		

NO.	DATE	REVISION
1	01/01/18	ADDED NOTES 6, 8
2	06/01/21	ADDED NOTES 1-7 AND RENUMBERED
3	11/23	REVISED NOTES 10, 14

W1-WATER-UTILITY-NOTES.dwg

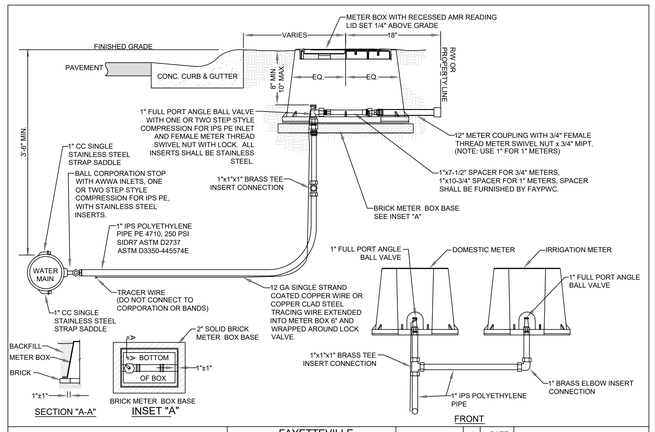


NOTES:
1. ALL MATERIALS TO BE APPROVED BY FAYPWC.
2. SERVICE LATERAL SIZE 1" IPS POLYETHYLENE UNLESS OTHERWISE SPECIFIED.
3. WATER SERVICE LOCK VALVE TO BE LOCATED 18" FROM SANITARY SEWER CLEANOUT STACK WHEN INSTALLED IN SAME DITCH.
4. WHEN INSTALLED IN A PAVED AREA, METER BOX TO BE SET 1/4" ABOVE FINISHED PAVEMENT GRADES AND PAVEMENT FEATHERED TO TOP OF BOX TO PROVIDE DRAIN AWAY FROM BOX.
5. COMPOSITE METER BOXES SHALL BE USED IN TRAFFIC AREAS SEE FAYPWC DETAIL W.4B
6. INSTALL NCDOT CONCRETE BRICK BASE WITH NO GAPS. DO NOT LAY BRICK ON PIPE. SEE INSET "A".
7. WHERE ASPHALT CURB OR STRIP PAVEMENT EXISTS, THE LOCATION OF BOX SHALL BE AS DIRECTED BY FAYPWC REPRESENTATIVE.
8. DISTANCE FROM TOP OF LOCK VALVE OPERATING STEM TO TOP OF BOX SHALL BE 8" MINIMUM TO 10" MAXIMUM.
9. RESIDENTIAL METER BOX SHALL BE SET 18" FROM R/W TO CENTERLINE OF METER BOX PERPENDICULAR TO THE R/W.
10. COMMERCIAL METER BOX LOCATION SHALL BE AS APPROVED (PREFER NO METER BE INSTALLED LESS THAN 5' FROM BUILDING TO EDGE OF BOX).
11. LATERAL SHALL BE CENTERED ON LOT UNLESS OTHERWISE NOTED.
12. LATERAL SHALL NOT BE BACKFILLED UNTIL INSPECTED AND APPROVED BY FAYPWC PROJECT COORDINATOR.
13. WATER MAIN AND LATERAL SHALL PASS HYDROSTATIC AND STERILIZATION TESTS.
14. BARB-TYPE FITTINGS ARE NOT ACCEPTABLE.
15. SHOULD IT BE NECESSARY TO CRIMP THE WATER SERVICE LATERAL, A FULL CIRCLE REPAIR CLAMP SHALL BE PLACED ON THE CRIMPED AREA.

1" WATER SERVICE LATERAL N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	PWC
SHEET NO. 1 OF 1 — DWG. NO. W.2 — DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	
DATE: JAN. 01, 2026 — APPROVED BY: K.A.H.		

NO.	DATE	REVISION
1	07/06	RESIZED METER COUPLING
2	07/13	REVISED NOTE RE: TRACER WIRE
3	07/17	REVISED NOTES

W2-WLAT.dwg



1" SPLIT WATER SERVICE LATERAL N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	PWC
SHEET NO. 1 OF 2 — DWG. NO. W.3 — DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	
DATE: JAN. 01, 2026 — APPROVED BY: K.A.H.		

NO.	DATE	REVISION
1	07/06	ADDED FRONT VIEW AND MOVED NOTES TO SHEET 2
2	07/13	ADDED NOTE RE: TRACER WIRE

W3-SPLIT-WLAT.dwg

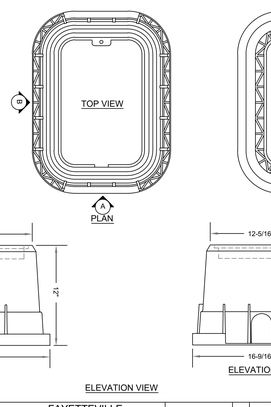
NOTES:
1. ALL MATERIALS TO BE APPROVED BY FAYPWC.
2. SERVICE LATERAL SIZE 1" IPS POLYETHYLENE UNLESS OTHERWISE SPECIFIED.
3. SERVICE LATERAL INSTALLATION SHALL BE APPROVED BY FAYPWC.
4. WATER SERVICE LOCK VALVE TO BE LOCATED 18" FROM SANITARY SEWER CLEANOUT STACK WHEN INSTALLED IN SAME DITCH.
5. WHEN INSTALLED IN A PAVED AREA, METER BOX TO BE SET 1/4" ABOVE FINISHED PAVEMENT GRADES AND PAVEMENT FEATHERED TO TOP OF BOX TO PROVIDE DRAINAGE AWAY FROM BOX.
6. COMPOSITE METER BOXES SHALL BE USED IN TRAFFIC AREAS (SEE FAYPWC DETAIL W.4B)
7. INSTALL SOLID CONCRETE BRICK BASE WITH NO GAPS, DO NOT LAY BRICK ON PIPE. SEE INSET "A".
8. WHERE ASPHALT CURB OR STRIP PAVEMENT EXISTS, THE LOCATION OF THE METER BOX SHALL BE AS DIRECTED BY FAYPWC REPRESENTATIVE.
9. THE DISTANCE FROM TOP OF LOCK VALVE OPERATING STEM TO TOP OF BOX SHALL BE 8" MINIMUM TO 10" MAXIMUM.
10. RESIDENTIAL METER BOX SHALL BE SET 18" FROM RIGHT-OF-WAY TO CENTERLINE OF METER BOX PERPENDICULAR TO THE RIGHT-OF-WAY.
11. COMMERCIAL METER BOX LOCATION SHALL BE AS APPROVED. (NO METER TO BE INSTALLED LESS THAN 5' FROM BUILDING TO EDGE OF BOX).
12. LATERAL SHALL BE CENTERED ON LOT UNLESS OTHERWISE APPROVED BY FAYPWC.
13. LATERAL SHALL NOT BE BACK FILLED UNTIL INSPECTED BY FAYPWC PROJECT COORDINATOR.
14. WATER MAIN AND LATERAL SHALL PASS HYDROSTATIC (200PSI) AND STERILIZATION TESTS.
15. SHOULD IT BE NECESSARY TO CRIMP THE WATER SERVICE LATERAL, A FULL CIRCLE REPAIR CLAMP SHALL BE PLACED ON THE CRIMPED AREA.

1" SPLIT WATER SERVICE LATERAL NOTES	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	PWC
SHEET NO. 2 OF 2 — DWG. NO. W.3 — DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	
DATE: JAN. 01, 2026 — APPROVED BY: K.A.H.		

NO.	DATE	REVISION
1	07/06	ADDED FRONT VIEW AND MOVED NOTES TO SHEET 2
2	02/16	UPDATED NOTES

W3B-SPLIT-WLAT-NOTES.dwg

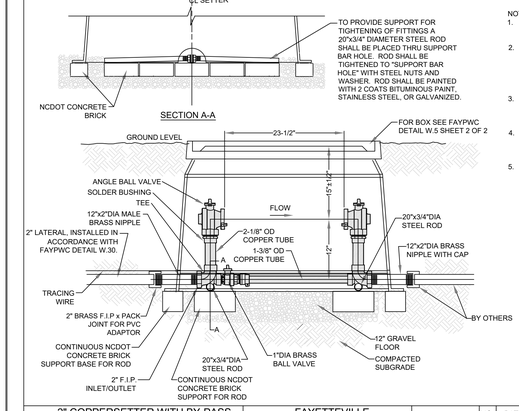
NOTES:
1. ALL MATERIALS SHALL BE APPROVED BY FAYPWC, SEE DRAWING W.4 SHEET 2 OF 2 FOR METER BOX LID DETAIL.
2. METER BOX SHALL NOT BE LOCATED WHERE H-20 LOADINGS CAN IMPACT BOX OR COVER.
3. FOR 1" WATER LATERAL INSTALLATION SEE FAYPWC DETAIL W.2
4. DIMENSION'S ± 1/16 U.N.O.



1-INCH METER BOX DETAILS N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	PWC
SHEET NO. 1 OF 2 — DWG. NO. W.4 — DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	
DATE: JAN. 01, 2026 — APPROVED BY: K.A.H.		

NO.	DATE	REVISION
1	03/10	CHANGED BOX DIMENSIONS

W4-1IN-METERBOX.dwg

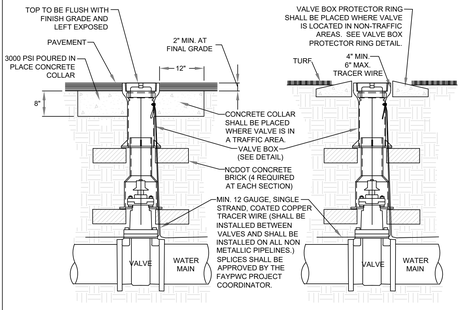


NOTES:
1. ALL MATERIALS SHALL BE APPROVED BY FAYPWC.
2. LOCATION OF BOX SHALL BE AS DETERMINED BY FAYPWC PROJECT COORDINATOR. IN NO CASE SHALL BOX BE INSTALLED CLOSER THAN 5' TO BUILDING.
3. LATERAL SHALL BE INSPECTED AND APPROVED BY FAYPWC PROJECT COORDINATOR PRIOR TO BACKFILL.
4. CONTRACTOR TO INSTALL TRACING WIRE INTO BOX. A MINIMUM 2' OF WIRE SHALL BE IN BOX.
5. FOR METER BOX SEE FAYPWC DETAIL W.5 SHEET 2 OF 2.

2" COPPERSETTER WITH BY-PASS 23-1/2" METER SPACING	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	PWC
SHEET NO. 1 OF 2 — DWG. NO. W.5 — DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	
DATE: JAN. 01, 2026 — APPROVED BY: K.A.H.		

NO.	DATE	REVISION
1	07/13	REVISED, UPDATED NOTES
2	07/17	UPDATED NOTES

W5-2-METER-SETTER.dwg

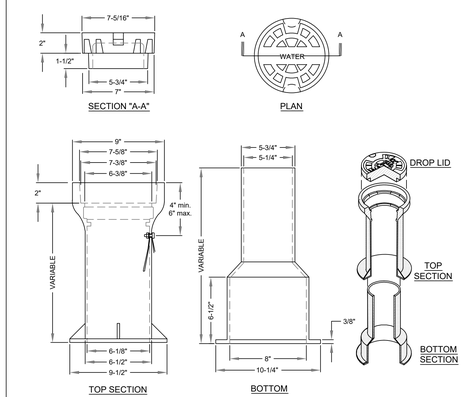


NOTES:
1. ALL MATERIALS SHALL BE IN ACCORDANCE WITH FAYPWC STANDARDS.
2. RESILIENT WEDGE GATE VALVE SHALL BE AS MANUFACTURED BY MUELLER CORP., AMERICAN DARLING OR CLOW CORP.
3. ALL VALVES SHALL HAVE 2" SQUARE OPERATING NUT AND SHALL OPEN COUNTERCLOCKWISE.
4. VALVE BODY, BONNET, AND GATE SHALL BE IN ACCORDANCE WITH AWWA C-509/C-515 AND NSF61.
5. VALVE BODY AND BONNET SHALL BE COATED ON ALL INTERIOR AND EXTERIOR SURFACES WITH A FUSION BONDED EPOXY IN ACCORDANCE WITH AWWA C-550-90.
6. ALL VALVES 24" AND SMALLER SHALL HAVE A SAFE WORKING PRESSURE OF 250PSI.
7. SEE VALVE BOX DETAIL FOR ADDITIONAL INFORMATION.
8. SEE VALVE BOX PROTECTOR RING DETAIL FOR ADDITIONAL INFORMATION.
9. VALVE BOX SECTIONS ARE REQUIRED. THE USE OF PIPE IN LIEU OF VALVE BOX SECTIONS SHALL NOT BE PERMITTED.

GATE VALVE N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	PWC
SHEET NO. 1 OF 1 — DWG. NO. W.6 — DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	
DATE: JAN. 01, 2026 — APPROVED BY: K.A.H.		

NO.	DATE	REVISION
1	6/06	ADDED NOTE NO. 9
2	7/09	CLARIFIED NOTES

W6-GATEVALVE.dwg

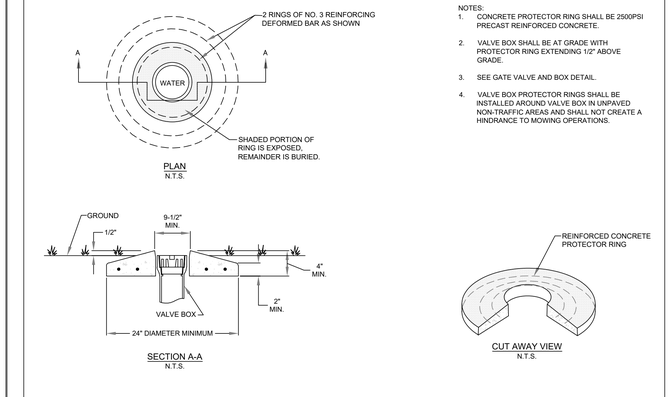


NOTES:
1. VALVE BOX SHALL BE 3 PART SLIP-TYPE MANUFACTURED BY SIGMA CORPORATION (VB-462), TYLER UNION (6855 SERIES), STAR PIPE PRODUCTS (VB-0004), OR APPROVED EQUAL.
2. VALVE BOX SHALL BE 3-PIECE CLOSE GRAINED CAST IRON SLIP-TYPE VALVE BOX WITH A MINIMUM THICKNESS OF 3/16".
3. VALVE BOX SHALL HAVE RAISED LETTERS "WATER" CAST INTO COVER.
4. VALVE BOX SHALL HAVE 3/8" HOLE DRILLED IN TOP SECTION THRU WHICH A 1/4"x1-1/2" GALVANIZED BOLT SHALL BE USED TO SECURE A MINIMUM 12 GAUGE, SINGLE STRAND, COATED COPPER OR COPPER CLAD STEEL TRACER WIRE FOR NON-FERROUS PIPE. A 1/2" WASHER SHALL BE USED BETWEEN NUT AND INSIDE OF BOX. TIGHTEN HAND TIGHT.
5. SCREW TYPE VALVE BOXES ARE NOT ACCEPTABLE.
6. DIMENSIONS SHOWN VARY BASED UPON THE MANUFACTURER. ACTUAL DIMENSIONS SHALL BE APPROVED BY FAYPWC.
7. VALVE BOX SECTIONS ARE REQUIRED. THE USE OF PIPE IN LIEU OF VALVE BOX SECTIONS SHALL NOT BE PERMITTED.
8. TRACING WIRE SHALL BE INSTALLED OUTSIDE OF BOX.
9. REFER TO FAYPWC DETAIL W.6 FOR INSTALLATION REQUIREMENTS.

VALVE BOX N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	PWC
SHEET NO. 1 OF 1 — DWG. NO. W.7 — DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	
DATE: JAN. 01, 2026 — APPROVED BY: K.A.H.		

NO.	DATE	REVISION
1	07/09	ADDED NOTES 7, 8, AND CLARIFIED NOTES
2	01/14	REVISED NOTES 1, 4, 6

W7-VALVEBOX.dwg



NOTES:
1. CONCRETE PROTECTOR RING SHALL BE 2500PSI PRECAST REINFORCED CONCRETE.
2. VALVE BOX SHALL BE AT GRADE WITH PROTECTOR RING EXTENDING 1/2" ABOVE GRADE.
3. SEE GATE VALVE AND BOX DETAIL.
4. VALVE BOX PROTECTOR RINGS SHALL BE INSTALLED AROUND VALVE BOX IN UNPAVED NON-TRAFFIC AREAS AND SHALL NOT CREATE A HINDRANCE TO MOWING OPERATIONS.

VALVE BOX PROTECTOR RING N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	PWC
SHEET NO. 1 OF 1 — DWG. NO. W.8 — DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT	
DATE: JAN. 01, 2026 — APPROVED BY: K.A.H.		

W8-CONC-PROTECTOR-RING.dwg

HCM | Schrader
4208 SIX FORKS ROAD
SUITE 1000
RALEIGH, NC 27609
919.825.4882

CIVIL
TIMMONS
5410 TRENITY ROAD
SUITE 102
919.866.4951

STRUCTURAL
LYNCH MYKINS / IMEG
301 N. WEST STREET
SUITE 105
919.782.1833

MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
CONSULTANT 3 PHONE

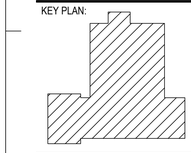
CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



Drawing
UTILITY NOTES & DETAILS

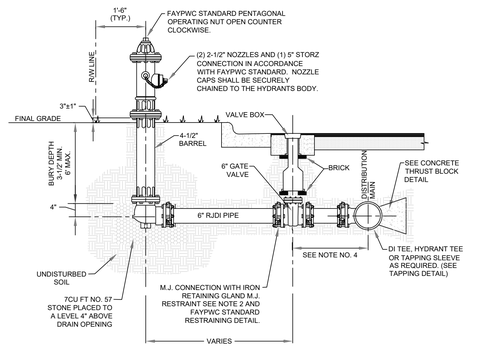
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NOT FOR CONSTRUCTION

2026-07-22
SCHEMATIC DESIGN PROGRESS

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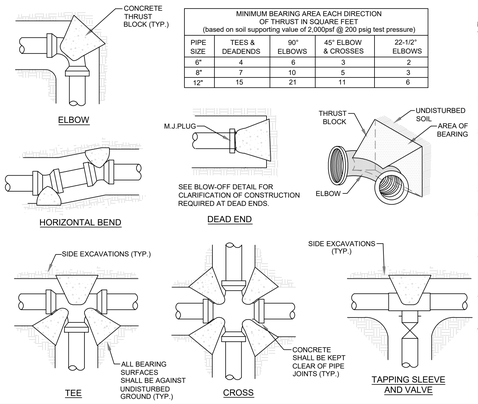
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7/22/2025 10:28:31 AM



FIRE HYDRANT AND VALVE INSTALLATION N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
SHEET NO. 1 OF 2	DWG. NO. W.13	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.	

NO.	DATE	REVISION
1	08/25/23	REVISED NOTES 16 AND 17
2	07/01/09	REVISED NOTE NO. 2. REMOVED NOTE NO. 3 AND ALLOWED RESTRAINT DETAIL
3	07/01/16	REVISED NOTES

W13-FHCC.dwg



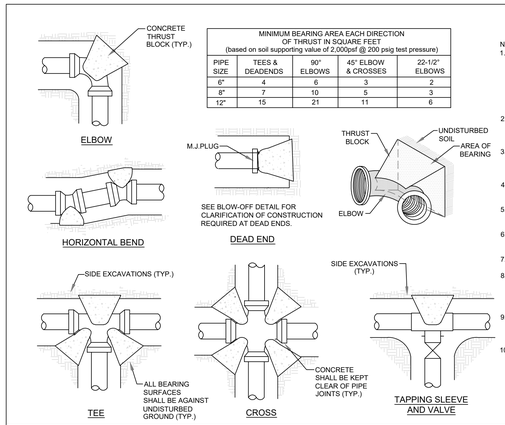
MINIMUM BEARING AREA EACH DIRECTION OF THRUST IN SQUARE FEET (based on soil supporting value of 2,000psf @ 200 psig test pressure)				
PIPE SIZE	TEES & DEADENDS	90° ELBOWS	45° ELBOW & CROSSES	22-1/2° ELBOWS
6"	4	6	3	2
8"	7	10	5	3
12"	15	21	11	6

NOTES:
1. THRUST BLOCKS SHALL BE INSTALLED ON PVC WATER DISTRIBUTION LINES 6" THRU 12" DIAMETER IN THE MANNER SHOWN. SEE FAYPWC STANDARD ALTERNATE RESTRAINING DETAIL W.18 FOR ACCEPTABLE ALTERNATE RESTRAINING SYSTEMS.
2. PIPE GREATER THAN 12 INCH DIAMETER SHALL REQUIRE RESTRAINT JOINT PIPE FOR THE PROPER LENGTH.
3. COMPACT FITTINGS ARE NOT ACCEPTABLE. STANDARD FITTINGS SHALL BE USED WITH CONCRETE THRUST BLOCKING.
4. THRUST BLOCKS SHALL BE INSTALLED ON SEWER FORCE MAIN IN THE MANNER SHOWN.
5. IF SAC-CRETE IS USED, MIXING MUST BE ON SITE UTILIZING A MECHANICAL MIXER.
6. NO CONCRETE SHALL BE PLACED ON BOLTS. WRAP JOINT FITTINGS WITH PLASTIC.
7. CONCRETE SHALL BE A MINIMUM 3,000PSI.
8. ALL BEARING SURFACES SHALL BE AGAINST UNDISTURBED SOIL AND SHALL BE APPROVED BY FAYPWC PROJECT COORDINATOR PRIOR TO PLACEMENT OF CONCRETE.
9. USE OF RESTRAINED JOINT DUCTILE IRON WILL BE REQUIRED IF SOIL CONDITIONS DO NOT ALLOW THE USE OF THRUST BLOCKS.
10. ALL VERTICAL BENDS SHALL BE RESTRAINED USING RESTRAINED JOINT DUCTILE IRON PIPE.

CONCRETE THRUST BLOCK DETAIL N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
SHEET NO. 1 OF 1	DWG. NO. W.17	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.	

NO.	DATE	REVISION
1	09/05	REVISED TABLE
2	02/07	ADDED NOTES 9 AND 10
3	07/13	ADDED TAPPING SLEEVE AND VALVE DETAIL

W17-THRUSTBLOCK.dwg



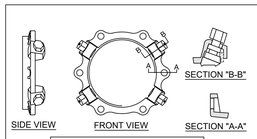
MINIMUM BEARING AREA EACH DIRECTION OF THRUST IN SQUARE FEET (based on soil supporting value of 2,000psf @ 200 psig test pressure)				
PIPE SIZE	TEES & DEADENDS	90° ELBOWS	45° ELBOW & CROSSES	22-1/2° ELBOWS
6"	4	6	3	2
8"	7	10	5	3
12"	15	21	11	6

NOTES:
1. THRUST BLOCKS SHALL BE INSTALLED ON PVC WATER DISTRIBUTION LINES 6" THRU 12" DIAMETER IN THE MANNER SHOWN. SEE FAYPWC STANDARD ALTERNATE RESTRAINING DETAIL W.18 FOR ACCEPTABLE ALTERNATE RESTRAINING SYSTEMS.
2. PIPE GREATER THAN 12 INCH DIAMETER SHALL REQUIRE RESTRAINT JOINT PIPE FOR THE PROPER LENGTH.
3. COMPACT FITTINGS ARE NOT ACCEPTABLE. STANDARD FITTINGS SHALL BE USED WITH CONCRETE THRUST BLOCKING.
4. THRUST BLOCKS SHALL BE INSTALLED ON SEWER FORCE MAIN IN THE MANNER SHOWN.
5. IF SAC-CRETE IS USED, MIXING MUST BE ON SITE UTILIZING A MECHANICAL MIXER.
6. NO CONCRETE SHALL BE PLACED ON BOLTS. WRAP JOINT FITTINGS WITH PLASTIC.
7. CONCRETE SHALL BE A MINIMUM 3,000PSI.
8. ALL BEARING SURFACES SHALL BE AGAINST UNDISTURBED SOIL AND SHALL BE APPROVED BY FAYPWC PROJECT COORDINATOR PRIOR TO PLACEMENT OF CONCRETE.
9. USE OF RESTRAINED JOINT DUCTILE IRON WILL BE REQUIRED IF SOIL CONDITIONS DO NOT ALLOW THE USE OF THRUST BLOCKS.
10. ALL VERTICAL BENDS SHALL BE RESTRAINED USING RESTRAINED JOINT DUCTILE IRON PIPE.

CONCRETE THRUST BLOCK DETAIL N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
SHEET NO. 1 OF 1	DWG. NO. W.17	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.	

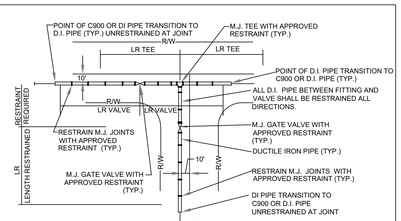
NO.	DATE	REVISION
1	09/05	REVISED TABLE
2	02/07	ADDED NOTES 9 AND 10
3	07/13	ADDED TAPPING SLEEVE AND VALVE DETAIL

W17-THRUSTBLOCK.dwg



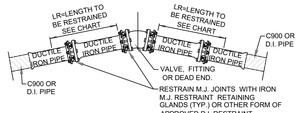
IRON RETAINING GLAND M.J. RESTRAINT			
NOMINAL PIPE SIZE	WEDGES QUANTITY	BOLTS QUANTITY	PRESS RATING
6"	4	6	350
8"		8	350
12"	8		350

8" SIZE SHOWN 6" AND 12" SIMILAR IRON RETAINING GLAND M.J. RESTRAINT



RESTRAINED JOINT DETAIL FOR TYPICAL TEE INTERSECTION 4-WAY INTERSECTION SIMILARLY RESTRAINED

LR (MIN. LENGTH OF RESTRAINT EACH DIRECTION OF THRUST IN LINEAR FEET) Based on 200 psig pressure, Safety Factor of 2.0:1, BARE DI PIPE AND ML Soil, 3.5' cover Chart does not apply to pipes wrapped in polyethylene wrap					
PIPE SIZE	VALVES DEAD ENDS TEES	90° ELBOWS	45° ELBOW & CROSSES	22-1/2° ELBOWS	REDUCER
6"	55'	31'	13'	7'	8"x2" 67'
8"	72'	40'	17'	8'	8"x6" 30'
12"	102'	57'	24'	12'	12"x8" 54'

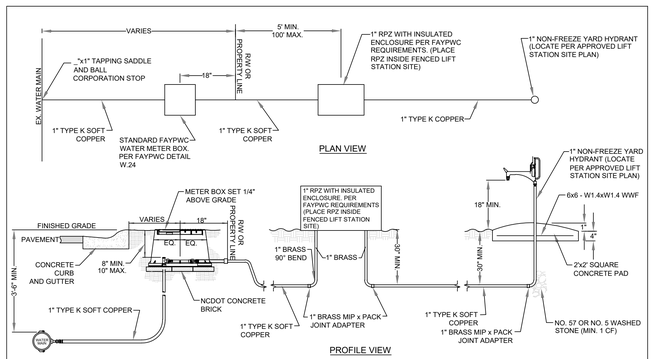


NOTES:
1. THRUST RESTRAINT SHALL BE INSTALLED ON DUCTILE IRON WATER DISTRIBUTION LINES 6" THRU 12" DIAMETER IN THE MANNER SHOWN. SEE FAYPWC STANDARD THRUST BLOCK DETAIL W.17 FOR PVC RESTRAINT.
2. IRON RETAINING GLAND M.J. RESTRAINT OR OTHER FORMS OF IRON RESTRAINT SHALL NOT BE USED ON PVC PIPE.
3. PIPE GREATER THAN 12 INCH DIAMETER SHALL REQUIRE RESTRAINED JOINT PIPE FOR THE PROPER LENGTH.
4. COMPACT FITTINGS ARE ACCEPTABLE FOR USE WITH IRON RETAINING GLAND M.J. RESTRAINT AND OTHER FORMS OF D.I. RESTRAINT.
5. THE MINIMUM LENGTH OF RESTRAINT INDICATED SHALL REQUIRE ALL JOINTS WITHIN THE LR DISTANCE TO BE RESTRAINED.
6. RESTRAINT SYSTEM SHALL BE INSPECTED AND APPROVED BY FAYPWC PRIOR TO BACKFILLING.
7. RESTRAINT SYSTEMS MAY VARY BASED UPON THE ENGINEERS' DESIGN AS SHOWN ON THE PLAN AND PROFILE SHEETS.
8. GRIPPER RING AND FIELD LOK GASKETS ARE AN ACCEPTABLE METHOD OF RESTRAINT ON DUCTILE IRON PIPE ONLY.

ALTERNATE RESTRAINT DETAIL (DUCTILE IRON PIPE ONLY) N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
SHEET NO. 1 OF 1	DWG. NO. W.18	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.	

NO.	DATE	REVISION
1	11/16/07	REVISED TABLE, ADDED NOTE 8

W18-RESTRAINT-DETAIL.dwg

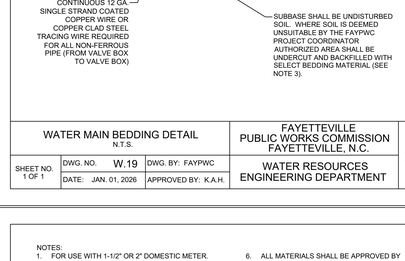


NOTES:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH FAYPWC STANDARDS.
2. LATERAL SHALL BE INSPECTED AND APPROVED BY FAYPWC PROJECT COORDINATOR PRIOR TO BACKFILL.
3. REFER TO APPROVED LIFT STATION SITE PLAN FOR EXACT LOCATIONS.

YARD HYDRANT INSTALLATION N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
SHEET NO. 1 OF 1	DWG. NO. W.27	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.	

NO.	DATE	REVISION
1	07/17	REVISED NOTES

W27-YARD-HYDRANT-INSTALLATION.dwg

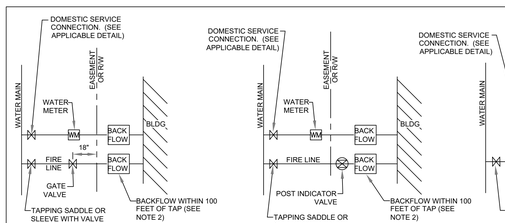


NOTES:
1. SUITABLE SOIL BEDDING IS DEFINED AS "NATIVE" SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH.
2. SUITABLE BEDDING MATERIAL SHALL EXTEND TO UNDISTURBED TRENCH WALLS.
3. IF GROUND CONDITIONS WARRANT, IT MAY BE NECESSARY TO BED DUCTILE IRON WATER MAINS IN SELECT BEDDING MATERIAL (NO. 5 OR NO. 57 STONE) TO THE SPRINGLINE OF THE PIPE. SUCH INSTALLATION SHALL BE AS DIRECTED BY THE FAYPWC PROJECT COORDINATOR.

WATER MAIN BEDDING DETAIL N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
SHEET NO. 1 OF 1	DWG. NO. W.19	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.	

NO.	DATE	REVISION
1	01/01/17	REVISED NOTES
2	07/01/13	REVISED NOTE RE: TRACER WIRE

W19-WATER-BEDDING.dwg



TYPICAL FIRE LINE AND DOMESTIC SERVICE LAYOUT OPTION 1

TYPICAL FIRE LINE AND DOMESTIC SERVICE LAYOUT OPTION 2

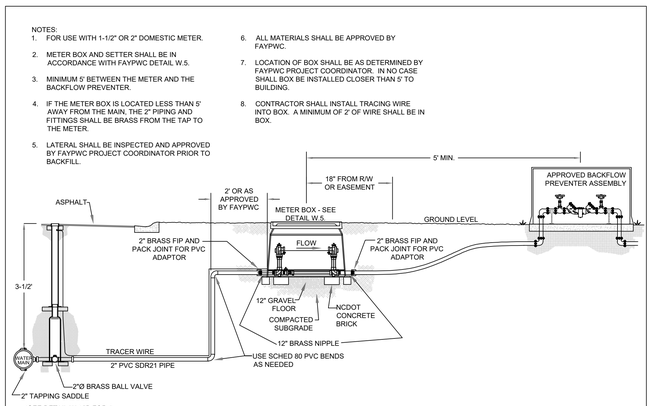
OPTIONAL FIRE LINE AND DOMESTIC SERVICE LAYOUT (AS APPROVED BY FAYPWC)

NOTES:
1. DOMESTIC BACKFLOW MAY BE LOCATED INSIDE THE BUILDING.
2. THE FIRE LINE SHALL HAVE A BACKFLOW DEVICE WITHIN 100 FEET OF THE MAIN AND MAY BE INSIDE THE BUILDING IF WITHIN 100'.
3. REFER TO THE CROSS CONNECTION CONTROL ORDINANCE FOR ADDITIONAL INFORMATION ON BACKFLOW REQUIREMENTS.
4. REFER TO APPROPRIATE METER BOX DETAIL FOR ADDITIONAL INFORMATION.
5. IF THE FIRE LINE HAS A DOMESTIC OR IRRIGATION SERVICE, BOTH THE FIRE LINE AND SERVICE SHALL BE TESTED AND DISINFECTED, REGARDLESS OF THE LENGTH.
6. IF THE FIRE LINE DOES NOT HAVE ANY SERVICES CONNECTED TO IT, DISINFECTION IS ONLY REQUIRED IF THE TOTAL LENGTH OF THE FIRE LINE IS GREATER THAN 20 LINEAR FEET (i.e., ONE (1) FULL JOINT OF PIPE.)
7. IF THE FIRE LINE IS GREATER THAN 20 LINEAR FEET, THEN IT SHALL BE PRESSURE TESTED.
8. ALL TESTING AND DISINFECTION SHALL BE DONE IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
9. DOMESTIC TAPS OFF 2" FIRE LINES WILL NOT BE ALLOWED.
10. NO MORE THAN ONE (1) TAP SHALL BE MADE OFF THE FIRE LINE, REGARDLESS OF THE TAP SIZE.
11. METER BANKS SHALL NOT BE TAPPED OFF THE FIRELINE.
12. DETAIL FOR INFORMATIONAL PURPOSES ONLY. ACTUAL LAYOUT TO BE REVIEWED AND APPROVED BY FAYPWC.

FIRE LINE SERVICES N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
SHEET NO. 1 OF 1	DWG. NO. W.21	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.	

NO.	DATE	REVISION
1	10/17	ADDED NOTES 4, 5, 6, 7, 8.
2	10/19	ADDED NOTES 9, 10 AND 11.

W21-STANDARD-TAPS.dwg



NOTES:
1. FOR USE WITH 1-1/2" OR 2" DOMESTIC METER.
2. METER BOX AND SETTER SHALL BE IN ACCORDANCE WITH FAYPWC DETAIL W.5.
3. MINIMUM 5' BETWEEN THE METER AND THE BACKFLOW PREVENTER.
4. IF THE METER BOX IS LOCATED LESS THAN 5' AWAY FROM THE MAIN, THE 2" PIPING AND FITTINGS SHALL BE BRASS FROM THE TAP TO THE METER.
5. LATERAL SHALL BE INSPECTED AND APPROVED BY FAYPWC PROJECT COORDINATOR PRIOR TO BACKFILL.
6. ALL MATERIALS SHALL BE APPROVED BY FAYPWC.
7. LOCATION OF BOX SHALL BE AS DETERMINED BY FAYPWC PROJECT COORDINATOR. IN NO CASE SHALL BOX BE INSTALLED CLOSER THAN 0' TO BUILDING.
8. CONTRACTOR SHALL INSTALL TRACING WIRE INTO BOX. A MINIMUM OF 2' OF WIRE SHALL BE IN BOX.

2" DOMESTIC LATERAL N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
SHEET NO. 1 OF 1	DWG. NO. W.30	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT
	DATE: JAN. 01, 2026	APPROVED BY: K.A.H.	

NO.	DATE	REVISION
1	07/01/17	REVISED NOTES

W30-2IN-DOMESTIC-LATERAL.dwg

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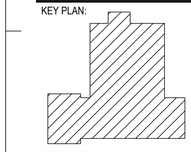
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PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: SE
Checked By: BM

KEY PLAN:



Drawing
UTILITY NOTES & DETAILS

C6.8

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1 **FLOOR PLAN-OVERALL**

A-101 1/8" = 1'-0"

0' 4' 8' 16' 32'

NORTH

QUESTIONS

1. Question: If the entire building is communications center all exterior windows, walls, and doors are ballistic rated. What parts of the building will be a designated critical operations area (DCOA)?

Response: All exterior components will be rated as required in Hardened Area. Please see sheet A-102 for designated Hardened Area shown in red.

2. Question: Large display - short throw projector? Plan south too?

Response: Details will be coordinated in DD phase.

3. Question: Are there any appliances here?

Response: No appliances currently located in Kitchenette 3.3. Appliances can be added in DD as desired.

4. Question: Add power, hidden trash cans, and seats during DDs

Response: Noted, will add the above during DDs.

5. Question: Exit only?

Response: Doors located within Training Room (2.2) are exit doors only.

6. Question: AV cabinet here or another area inside the room.

Response: Noted, will be added during DDs.

7. Question: Add seating and power

Response: Noted, will be added during DDs.

8. Question: Requesting flush mounted bottle fillers, no water fountains

Response: Noted, drawings have been updated.

9. Question: Owner has design concept for public bathrooms - backlit LED mirrors, elongated stall doors

Response: Noted, further coordination will come during DDs.

10. Question: Add ice machine

Response: Under counter ice machine has been added

11. Question: No sink on island- all clear surface.

Response: Sink has been removed.

12. Question: Add vestibule.

Response: Noted, will be further investigated during DDs.

13. Question: Wall in patio

Response: Half-Wall has been added in Patio.

14. Question: Is this millwork for trash & recycling?

Response: This is not millwork as currently shown, but vending machines. Can be millwork if preferred.

15. Question: is it possible to extend this room to accommodate 2 more training seats?

Response :Noted, will be further investigated during DDs.

16. Question: Can UPS go in electrical or MDF?

Response: Noted, will be further investigated during DDs.

17.Question: open storage/locking cabinets- no walls

Response: Walls have been removed and additional storage added.

18. Question: Access to space inside "vestibule"

Response: Key card access.

19. Question: Access from exterior and hardened space?

Response: Current configuration shows access from secured vestibule. This can be investigated further during DDs.

20. Question: exit only? (Call Center)

Response: Correct, exit only.

21. Question: move this door nearer to hallway

Response: Will be investigated further during DDs, pending additional vestibule.

22. Question: this door opening should be in bunk room - double or barn style?

Response: Doors can be double doors.

23. Question: Kitchenette only no full appliance set. fridge, microwave, bottle filler, ice.

Response: Full appliance set has been removed and updated.

24. Question: Rotate so coaching is adj to ops floor toilet(s) behind and small hall - ok to remove 1 toilet room.

Response: Noted, will be further investigated during DDs.

25. Question: remove widow to reduce cost?

Response: Noted, will be further investigated during DDs.

26. Question: remove this door or add vestibule? (Kitchenette 3.3)

Response: Noted, will be further investigated during DDs.

27. Question: Rotate 180 to move work area away from leadership offices

Response: Work area has been rotated. Full impact will be coordinated during DDs.

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Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: OA / JS
Checked By: DP

KEY PLAN:

Drawing
FLOOR PLAN

A-101

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1 FLOOR PLAN-OVERALL

A-102 1/8" = 1'-0"

0' 4' 8' 16' 32'

NORTH

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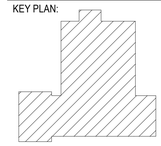
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KEY PLAN:



Drawing
FLOOR PLAN

A-102

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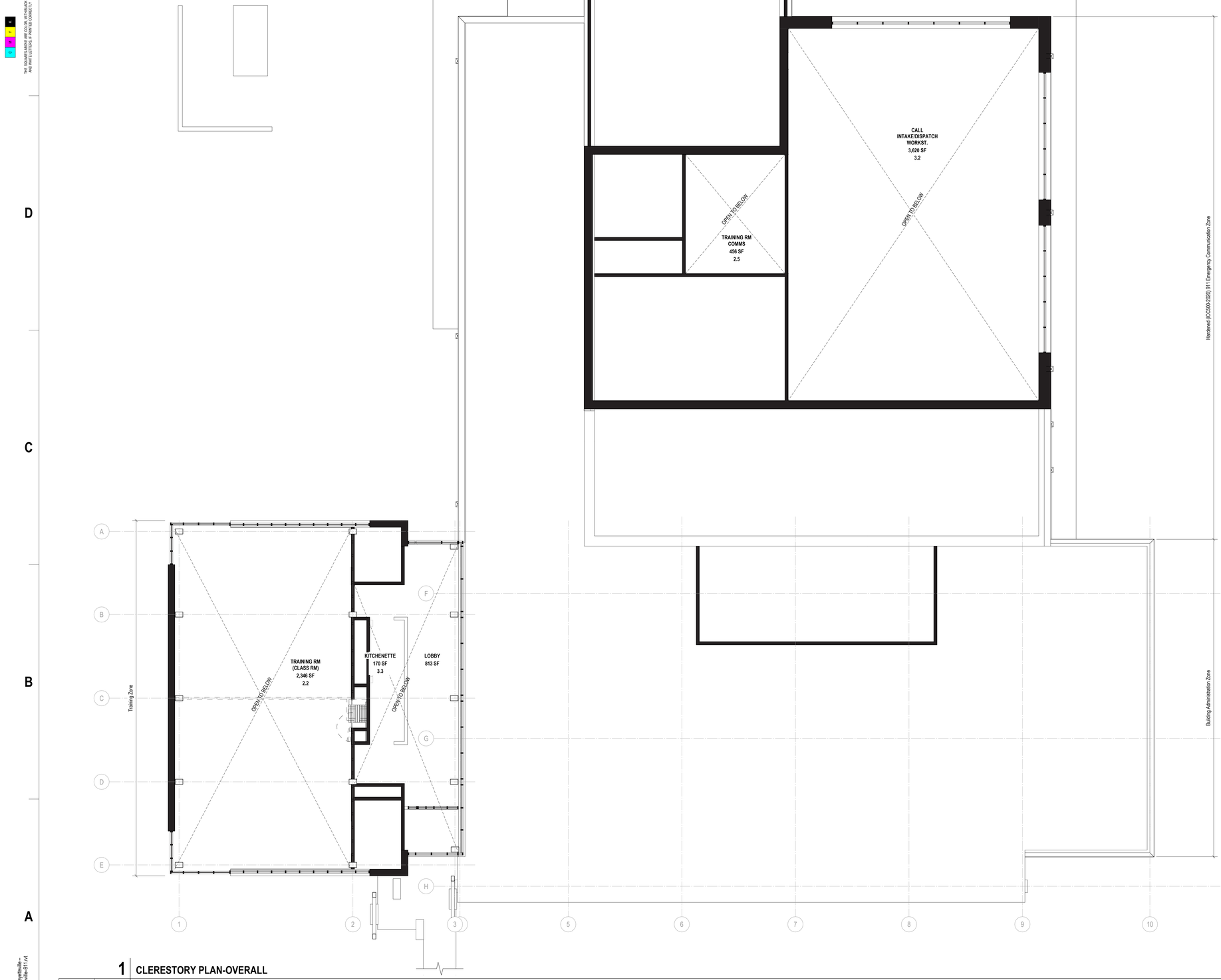
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PIE MIE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAPER SIZE

THE SQUARES MADE ARE (CLOCKWISE FROM TOP): WHITE, BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY



1 CLERESTORY PLAN-OVERALL

A-103 1/8" = 1'-0"

0' 4' 8' 16' 32'

NORTH

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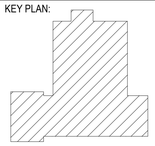
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KEY PLAN:



Drawing
CLERESTORY PLAN

A-103

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1 REFLECTED CEILING PLAN

A-121 | 1/8" = 1'-0"

0' 4' 8' 16' 32'

NORTH

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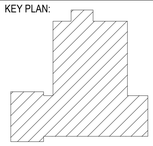
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Drawing
REFLECTED CEILING PLAN

A-121

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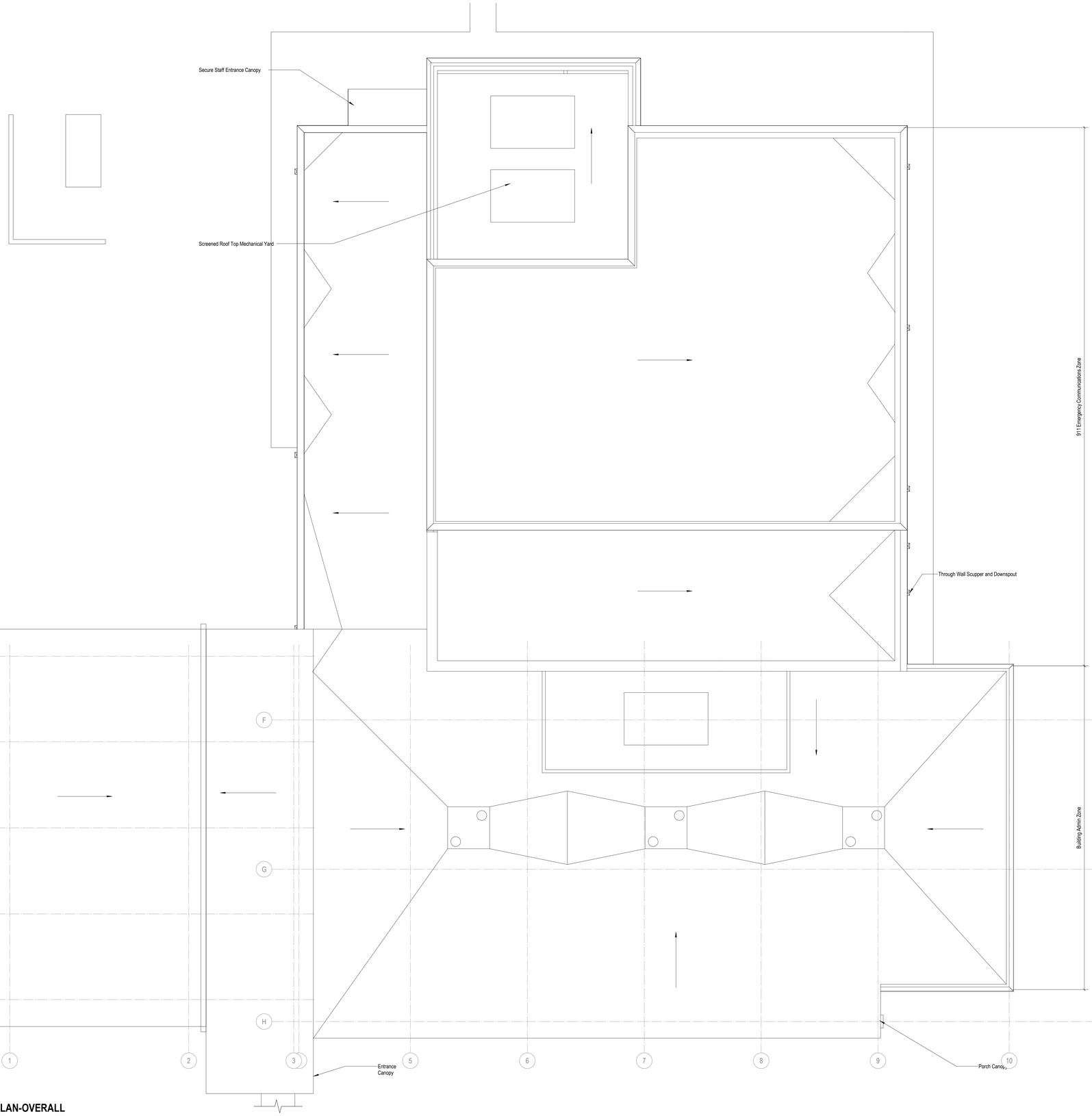
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1 ROOF PLAN-OVERALL

A-141 1/8" = 1'-0"

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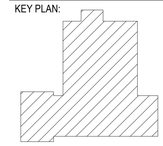
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KEY PLAN:



Drawing
ROOF PLAN

A-141

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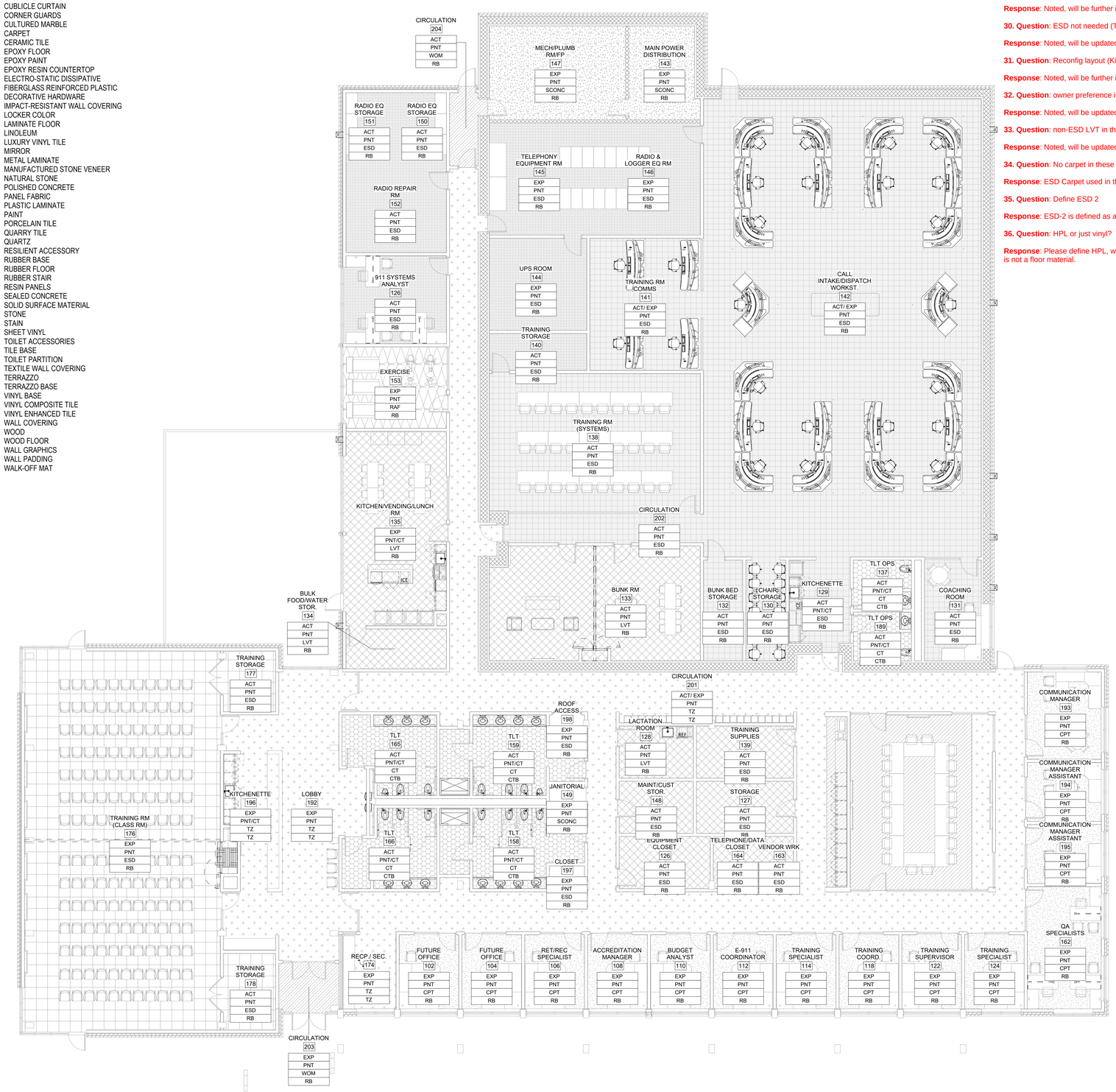
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FINISH ABBREVIATIONS

ACT	ACOUSTICAL CEILING PANEL
AP	ACOUSTICAL PANEL
AWC	ACOUSTICAL WALL COVERING
BR	BRICK
CAB	CABINETS
CC	CUBILICLE CURTAIN
CG	CORNER GUARDS
CM	CULTURED MARBLE
CPT	CARPET
CT	CERAMIC TILE
EF	EPOXY FLOOR
EP	EPOXY PAINT
ER	EPOXY RESIN COUNTERTOP
ESD	ELECTRO-STATIC DISSIPATIVE
FRP	FIBERGLASS REINFORCED PLASTIC
HDW	DECORATIVE HARDWARE
IRWC	IMPACT-RESISTANT WALL COVERING
LC	LOCKER COLOR
LF	LAMINATE FLOOR
LIN	LINOLEUM
LVT	LUXURY VINYL TILE
MIR	MIRROR
ML	METAL LAMINATE
MSV	MANUFACTURED STONE VENEER
NS	NATURAL STONE
PC	POLISHED CONCRETE
PF	PANEL FABRIC
PLAM	PLASTIC LAMINATE
PNT	PAINT
POR	PORCELAIN TILE
QT	QUARRY TILE
QTZ	QUARTZ
RA	RESILIENT ACCESSORY
RB	RUBBER BASE
RF	RUBBER FLOOR
RS	RUBBER STAIR
RP	RESIN PANELS
SC	SEALED CONCRETE
SSM	SOLID SURFACE MATERIAL
ST	STONE
STN	STAIN
SV	SHEET VINYL
TA	TOILET ACCESSORIES
TB	TILE BASE
TP	TOILET PARTITION
TWC	TEXTILE WALL COVERING
TZ	TERRAZZO
TZB	TERRAZZO BASE
VB	VINYL BASE
VCT	VINYL COMPOSITE TILE
VET	VINYL ENHANCED TILE
WC	WALL COVERING
WD	WOOD
WF	WOOD FLOOR
WG	WALL GRAPHICS
WP	WALL PADDING
WOM	WALK-OFF MAT



QUESTIONS

28. Question: Flooring preference is rubber (Radio Repair Room)

Response: Noted, will be updated during DDs.

29. Question: review flooring choice (Telephone Equipment Room)

Response: Noted, will be further investigated during DDs.

30. Question: ESD not needed (Training Room)

Response: Noted, will be updated during DDs.

31. Question: Reconfig layout (Kitchen/Vending/Lunch Room)

Response: Noted, will be further investigated during DDs.

32. Question: owner preference is ESD LVT (poss wood grain)

Response: Noted, will be updated during DDs.

33. Question: non-ESD LVT in these areas.

Response: Noted, will be updated during DDs.

34. Question: No carpet in these technology spaces.

Response: ESD Carpet used in this area to reduce static and protect equipment.

35. Question: Define ESD 2

Response: ESD-2 is defined as an ESD Carpet.

36. Question: HPL or just vinyl?

Response: Please define HPL, which is typically a High-Pressure Laminate. This is not a floor material.

FINISH PLAN GENERAL NOTES

1. IDENTIFICATION OF INTERIOR FINISHES ARE LOCATED THROUGHOUT THE SCOPE OF WORK.
2. UNLESS INDICATED OTHERWISE:
   A. ALL INTERIOR WALLS TO BE PAINTED P-1
   B. ALL HM DOOR FRAMES TO BE PAINTED P-9
   C. ALL WINDOW SILLS TO BE SS-1
   D. ALL IMPACT RESISTANT GYP. TO BE PAINTED P5, UP TO CONTROL JOINT.
3. ALL FLOOR MATERIALS TO BE BUTT JOINTED AT TRANSITIONS ON CENTER OF DOOR LEAF WHERE APPLICABLE, UNO. PROVIDE EDGE PROTECTION AND TRANSITION PROFILES WHERE MATERIAL CHANGES AND/OR STOPS.
4. PAINT ALL EXPOSED STRUCTURE (BEAMS, JOISTS, DECK), EXPOSED CONDUIT, EXPOSED DUCT AND PIPING (INCLUDING INSULATION). REFER TO FINISH LEGEND FOR COLOR.
5. ALL WALL MOUNTED CASEWORK, MILLWORK, HARDWARE, EQUIPMENT, ETC. SHALL BE ANCHORED TO IN-WALL METAL STRAPPING OR PLYWOOD/LUMBER BLOCKING INSTALLED BETWEEN STUD FRAMING, UNO.
6. FIBER REINFORCED PLASTIC PANELING WALL PROTECTION FOR CUSTODIAL ROOMS SHALL BE EXTENDED 4'-0" IN BOTH DIRECTIONS FROM MOP SINK AND SHALL BE 4'-0" ABOVE WALL BASE, UNO.
7. FIBER REINFORCED PLASTIC PANELING WALL PROTECTION FOR KITCHEN AND APPURTENANT ROOMS SHALL BE LOCATED ON ALL WALLS AND EXTEND FROM WALL BASE TO CEILING.
8. ALL FLOORING MATERIALS TO CONTINUE UNDER CASEWORK TO TOE KICK OR IF OPEN, TO WALL.

SHEET KEYNOTES

NUM.	NOTE

ROOM FINISH TAG

CLASSROOM — ROOM NAME
B112 — ROOM NUMBER
ACT-1 — CEILING FINISH
PNT-1 — WALL FINISH
CPT-1 — FLOOR FINISH
RB-1 — BASE MATERIAL

FINISH EXTENTS LEGEND

- ELECTRO-STATIC DISSIPATIVE CARPET (ESD-1)
- ESD-2
- ELECTRO-STATIC DISSIPATIVE LVT (ESD-3)
- LVT-1
- CPT-1
- CPT-2
- CPT-3
- CT-1
- RAF-1
- TZ-1
- SCONC

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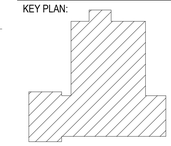
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Δ	DATE	DESCRIPTION

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Checked By: DP

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Drawing
FINISH PLAN- LEVEL 01

A1 FINISH PLAN-OVERALL- LEVEL 01
A-151 1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

A-151

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INTERIOR FINISH SCHEDULE

TAG	MATERIAL	MANUFACTURER	PRODUCT	PRODUCT COLOR	PRODUCT SIZE	INSTALLATION	COMMENTS	CURRENT REV
BASE								
RB-1	RUBBER BASE							
CEILING- TILE								
ACT-1	ACOUSTIC CEILING TILE							
ACT-3								
COUNTERTOP								
QTZ-1	QUARTZ							
FLOORING								
CPT-1	CARPET TILE							
CPT-2	CARPET TILE							
CT-1	CERAMIC TILE							
ESD-1	ELECTRO STATIC DISSIPATIVE CARPET							
ESD-2	ELECTRO STATIC DISSIPATIVE CARPET							
ESD-3	ELECTRO STATIC DISSIPATIVE LVT							
LVT-1	LUXURY VINYL TILE							
RAF-1	RUBBER ATHLETIC FLOORING							
SCONC	SEALED CONCRETE							
TZ-1	TERRAZZO							
GLAZING								
GL11								
GL31								
GYPSUM BOARD								
GB-1								
PLASTIC LAMINATE								
PLAM-1	PLASTIC LAMINATE							

ROOM FINISH SCHEDULE

ROOM		FLOOR			MILLWORK				
NUMBER	NAME	FLOOR	BASE	WALL FINISH	HORIZONTAL	VERTICAL	CEILING	MISCELLANEOUS	NOTES
LEVEL 01									
102	FUTUREOFFICE	CPT	RB	PNT	-	-	EXP		
104	FUTUREOFFICE	CPT	RB	PNT	-	-	EXP		
106	RET/RECSPECIALIST	CPT	RB	PNT	-	-	EXP		
108	ACCREDITATION MANAGER	CPT	RB	PNT	-	-	EXP		
110	BUDGETANALYST	CPT	RB	PNT	-	-	EXP		
112	E-911COORDINATOR	CPT	RB	PNT	-	-	EXP		
114	TRAININGSPECIALIST	CPT	RB	PNT	-	-	EXP		
118	TRAINING COORD.	CPT	RB	PNT	-	-	EXP		
122	TRAINING SUPERVISOR	CPT	RB	PNT	-	-	EXP		
124	TRAINING SPECIALIST	CPT	RB	PNT	-	-	EXP		
124	CONFERENCE	CPT	RB	PNT			ACT/ EXP		
126	911 SYSTEMSANALYST	ESD	RB	PNT	-	-	ACT		
126	EQUIPMENT CLOSET	ESD	RB	PNT	-	-	ACT		
127	STORAGE	ESD	RB	PNT	-	-	ACT		
128	LACTATION ROOM	LVT	RB	PNT	QTZ	PLAM	ACT		
129	KITCHENETTE	ESD	RB	PNT/CT	QTZ	PLAM	ACT		
130	CHAIR STORAGE	ESD	RB	PNT	-	-	ACT		
131	COACHING ROOM	ESD	RB	PNT	-	-	ACT		
132	BUNK BED STORAGE	ESD	RB	PNT	-	-	ACT		
133	BUNK RM.	LVT	RB	PNT	-	-	ACT		
134	BULK FOOD/WATER STOR.	LVT	RB	PNT	-	-	ACT		
135	KITCHEN/VENDING/LUNCH RM	LVT	RB	PNT/CT	QTZ	PLAM	EXP		
137	TLT OPS	CT	CTB	PNT/CT	QTZ	PLAM	ACT		
138	TRAINING RM (SYSTEMS)	ESD	RB	PNT	-	-	ACT		
139	TRAINING SUPPLIES	ESD	RB	PNT	-	-	ACT		
140	TRAINING STORAGE	ESD	RB	PNT	-	-	ACT		
141	TRAINING RM COMMS	ESD	RB	PNT	-	-	ACT/ EXP		
142	CALL INTAKE/DISPATCH WORKST.	ESD	RB	PNT	-	-	ACT/ EXP		
143	MAIN POWER DISTRIBUTION	SCONC	RB	PNT	-	-	EXP		
144	UPS ROOM	ESD	RB	PNT	-	-	EXP		
145	TELEPHONY EQUIPMENT RM	ESD	RB	PNT	-	-	EXP		
146	RADIO & LOGGER EQ RM	ESD	RB	PNT	-	-	EXP		
147	MECH/PLUMB RM/FP	SCONC	RB	PNT	-	-	EXP		
148	MAINT/CUST STOR.	ESD	RB	PNT	-	-	ACT		
149	JANITORIAL	SCONC	RB	PNT	-	-	EXP		
150	RADIO EQ STORAGE	ESD	RB	PNT	-	-	ACT		
151	RADIO EQ STORAGE	ESD	RB	PNT	-	-	ACT		
152	RADIO REPAIR RM	ESD	RB	PNT	-	-	ACT		
153	EXERCISE	RAF	RB	PNT	-	-	EXP		
157	WORK/COPY/FILE AREA	TZ	TZ	PNT	QTZ	PLAM	EXP		
158	TLT	CT	CTB	PNT/CT	QTZ	PLAM	ACT		
159	TLT	CT	CTB	PNT/CT	QTZ	PLAM	ACT		
162	QA SPECIALISTS	CPT	RB	PNT	-	-	EXP		
163	VENDOR WRK	ESD	RB	PNT	-	-	ACT		
164	TELEPHONE/DATA CLOSET	ESD	RB	PNT	-	-	ACT		
165	TLT	CT	CTB	PNT/CT	QTZ	PLAM	ACT		
166	TLT	CT	CTB	PNT/CT	QTZ	PLAM	ACT		
174	RECP./ SEC.	TZ	TZ	PNT	QTZ	PLAM	EXP		
176	TRAINING RM (CLASS RM)	ESD	RB	PNT	-	-	EXP		
177	TRAINING STORAGE	ESD	RB	PNT	-	-	ACT		
178	TRAINING STORAGE	ESD	RB	PNT	-	-	ACT		
189	TLT OPS	CT	CTB	PNT/CT	QTZ	PLAM	ACT		
192	LOBBY	TZ	TZ	PNT	-	-	EXP		
193	COMMUNICATIONMANAGER	CPT	RB	PNT	-	-	EXP		
194	COMMUNICATIONMANAGER ASSISTANT	CPT	RB	PNT	-	-	EXP		
195	COMMUNICATIONMANAGER ASSISTANT	CPT	RB	PNT	-	-	EXP		
196	KITCHENETTE	TZ	TZ	PNT/CT	QTZ	PLAM	EXP		
197	CLOSET	ESD	RB	PNT	-	-	EXP		
198	ROOF ACCESS	ESD	RB	PNT	-	-	EXP		
201	CIRCULATION	TZ	TZ	PNT	-	-	ACT/ EXP		
202	CIRCULATION	ESD	RB	PNT	-	-	ACT		
203	CIRCULATION	WOM	RB	PNT	-	-	EXP		
204	CIRCULATION	WOM	RB	PNT	-	-	ACT		

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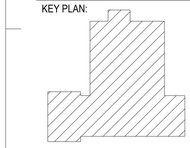
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Drawing

FINISH SPECIFICATIONS & ROOM FINISH SCHEDULE

A-151.1

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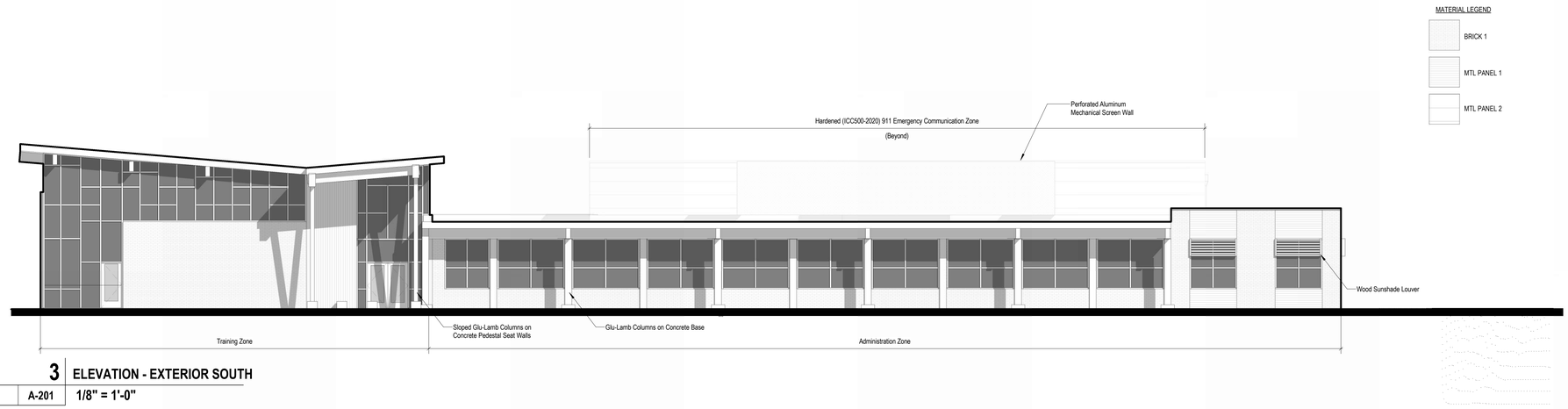
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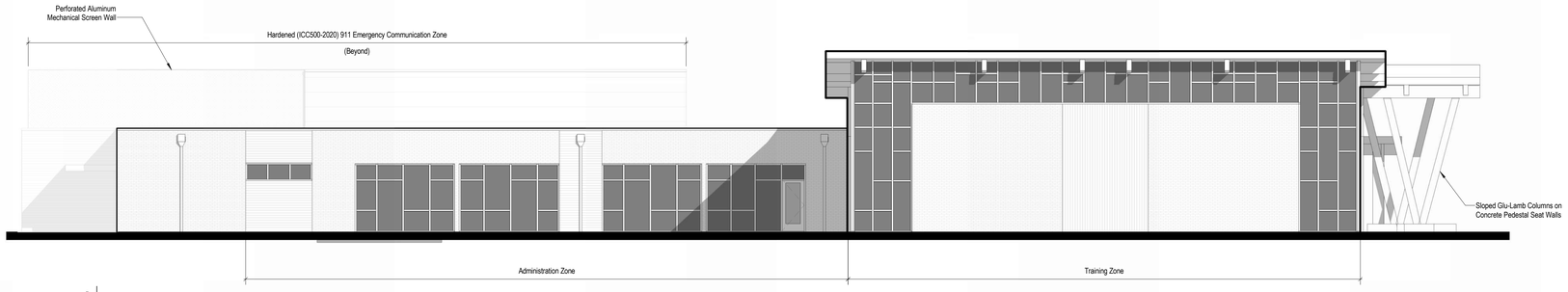
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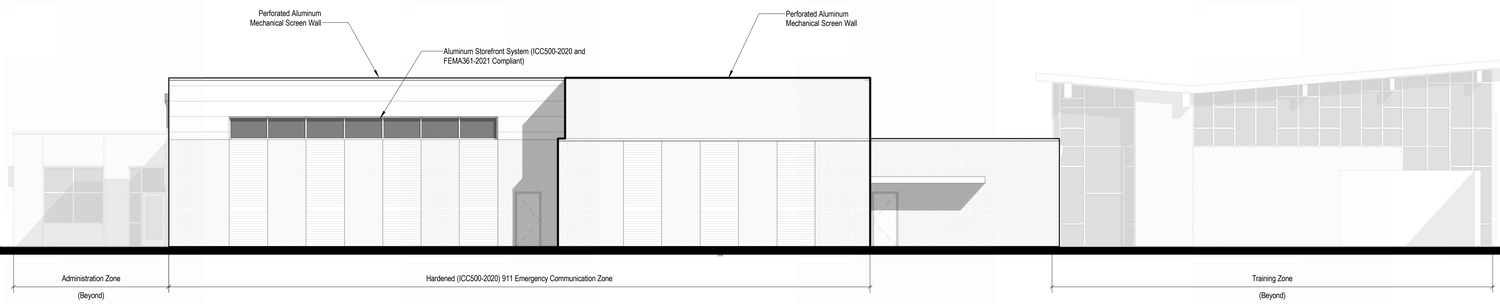
3 ELEVATION - EXTERIOR SOUTH

A-201 1/8" = 1'-0"



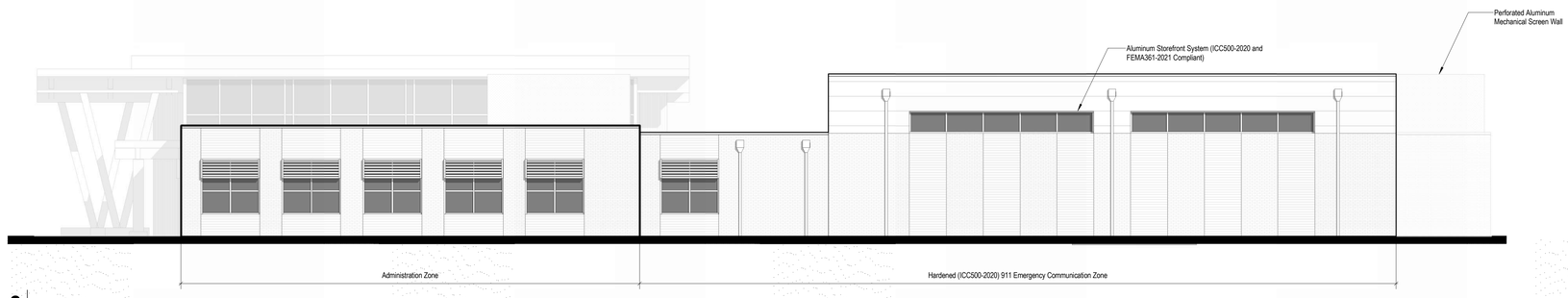
4 ELEVATION - EXTERIOR WEST

A-201 1/8" = 1'-0"



1 ELEVATION - EXTERIOR NORTH

A-201 1/8" = 1'-0"



2 ELEVATION - EXTERIOR EAST

A-201 1/8" = 1'-0"

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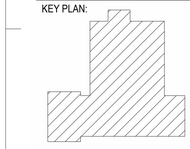
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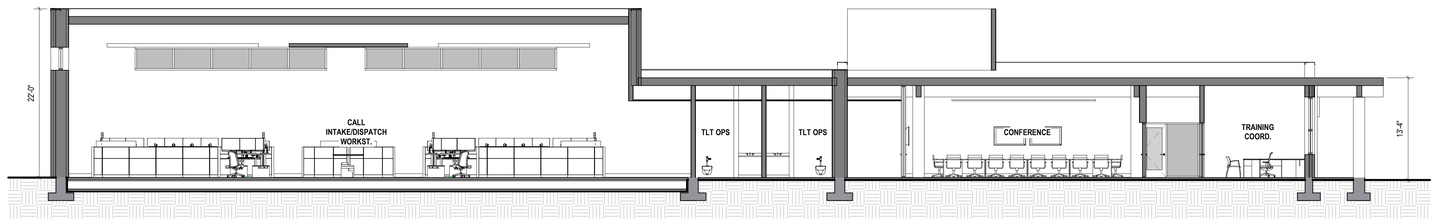
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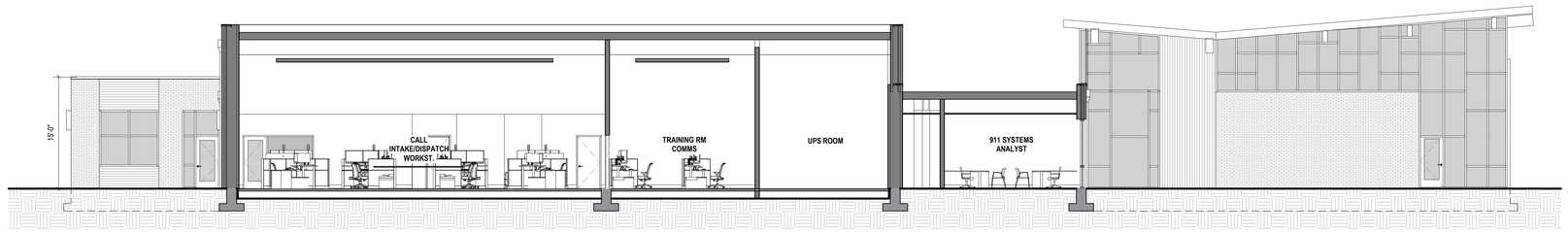
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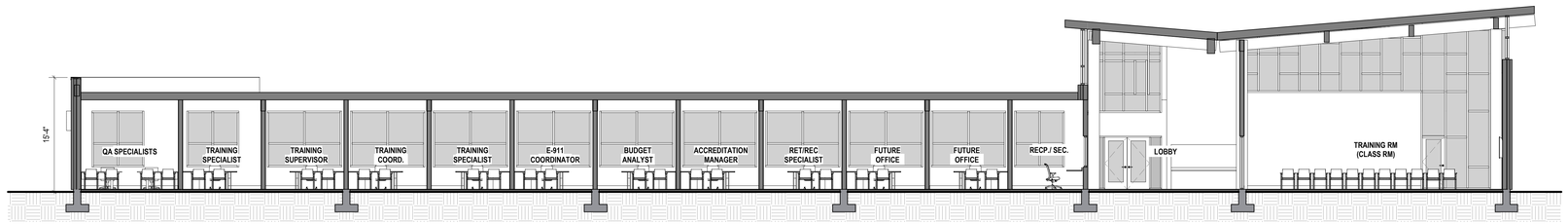
1 BUILDING SECTION - PSAP & OFFICES

A-301 | 1/8" = 1'-0"



2 BUILDING SECTION - PSAP & MECH

A-301 | 1/8" = 1'-0"



3 BUILDING SECTION - OFFICE & TRAINING ROOM

A-301 | 1/8" = 1'-0"

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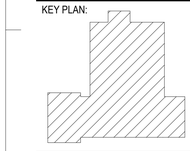
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BUILDING SECTIONS

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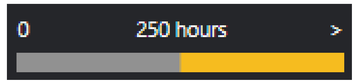
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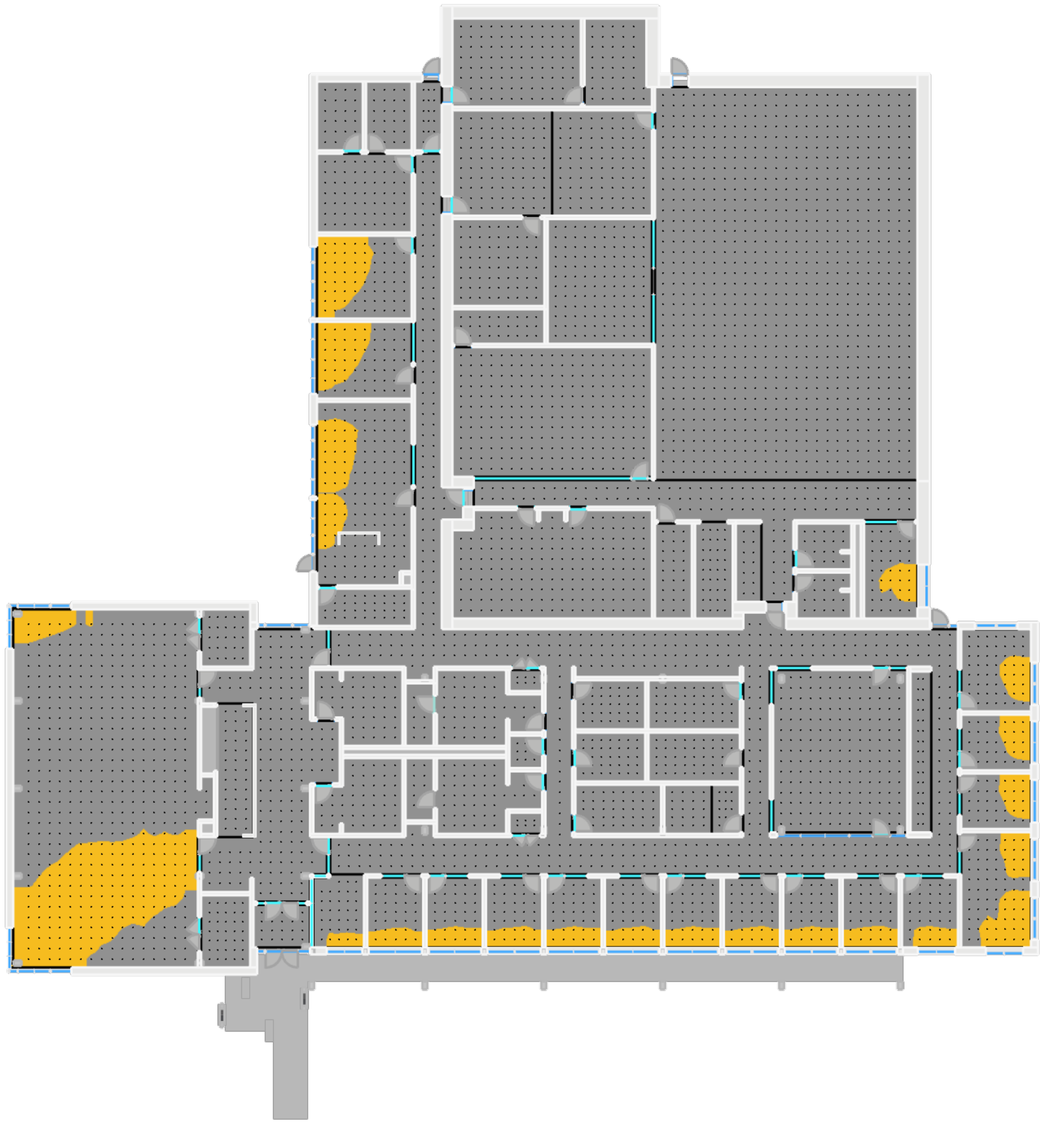
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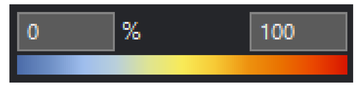
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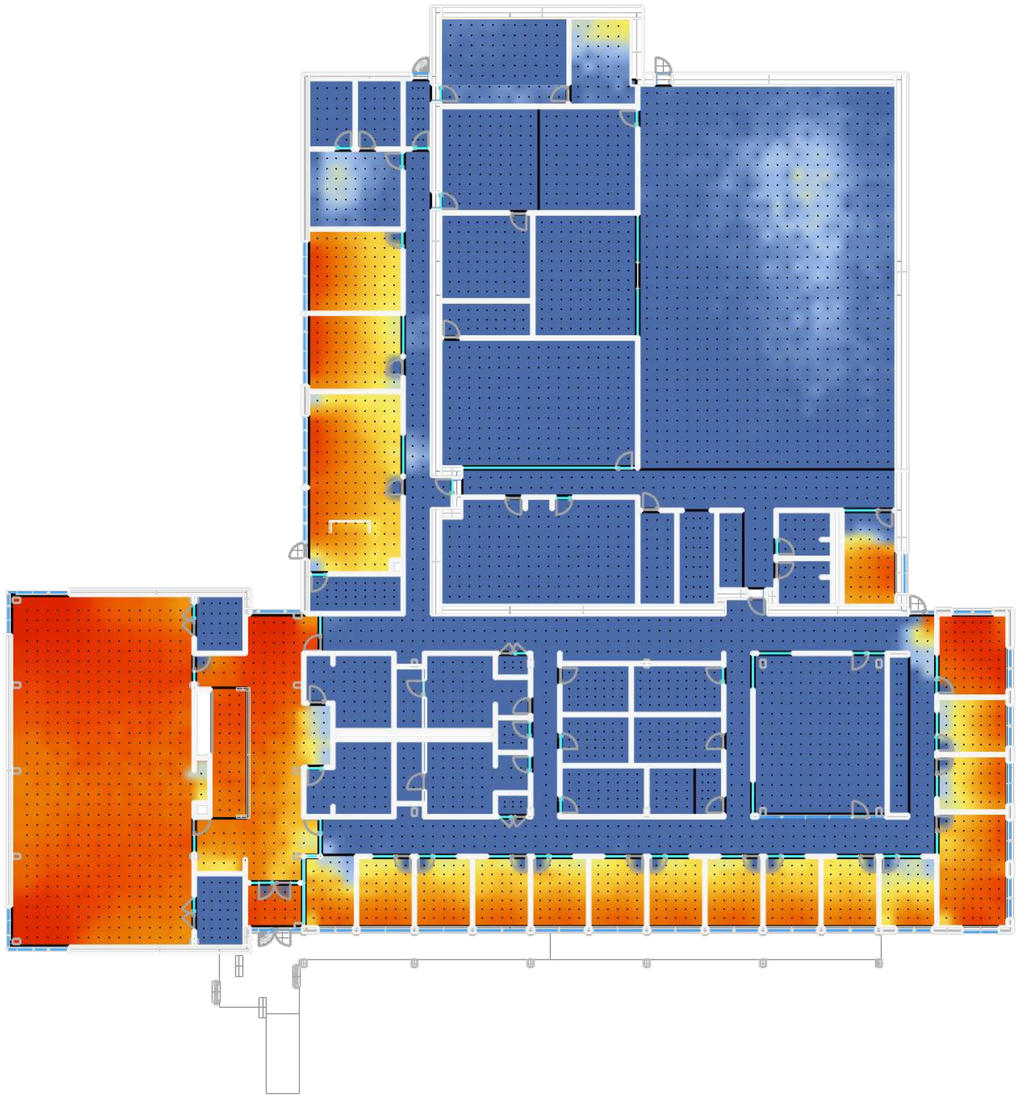
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GLARE STUDY





DAYLIGHT STUDY

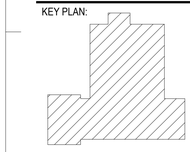
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Drawing
DAYLIGHT STUDY

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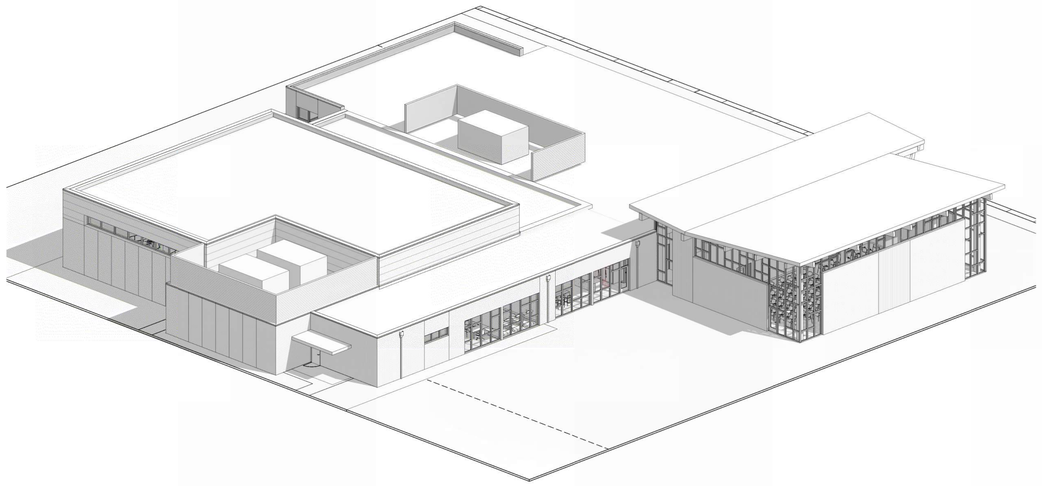
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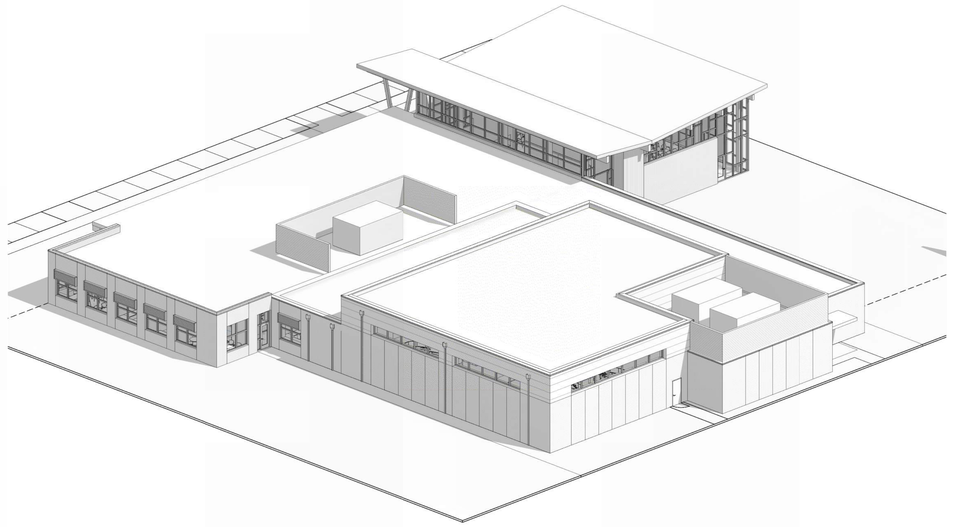
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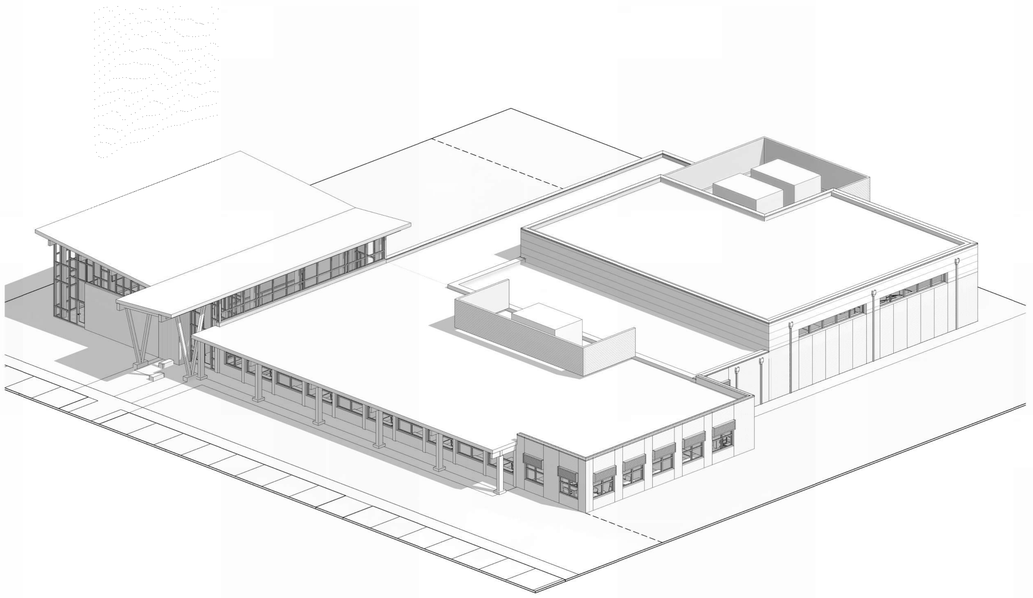
3 AXON-PRESENTATION-PLANAR- LEVEL 1 OVERALL

A-802



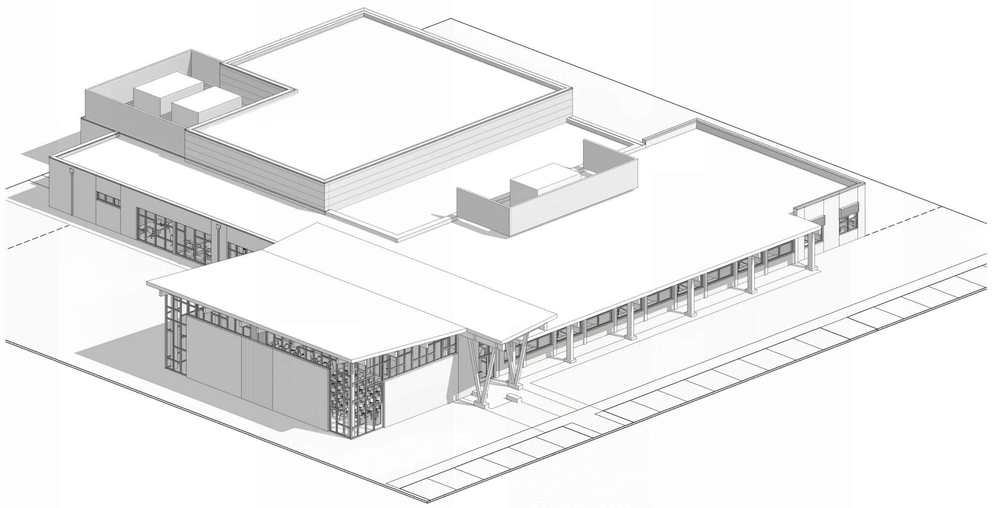
4 AXON-PRESENTATION-PLANAR- LEVEL 1 OVERALL

A-802



1 AXON-PRESENTATION-PLANAR- LEVEL 1 OVERALL

A-802



2 AXON-PRESENTATION-PLANAR- LEVEL 1 OVERALL

A-802

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RALEIGH, NC 27609
919.825.4882

CIVIL
TIMMONS
5410 TRINITY ROAD
SUITE 102
919.866.4951

STRUCTURAL
LYNCH MYKINS / IMEG
301 N. WEST STREET
SUITE 100
919.782.1833

MEP/FP + TECH/AV
OPTIMA
434 FAYETTEVILLE STREET
SUITE 2450
CONSULTANT 3 PHONE

CITY OF FAYETTEVILLE
911 CENTER

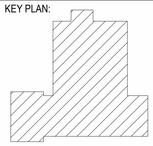
433 HAY STREET
FAYETTEVILLE, NC 28301

HCM | Schrader
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: OA / JS
Checked By: DP

KEY PLAN:



Drawing
AXONOMETRIC VIEWS

A-802

NOT FOR CONSTRUCTION

2026-07-22
SCHEMATIC DESIGN PROGRESS

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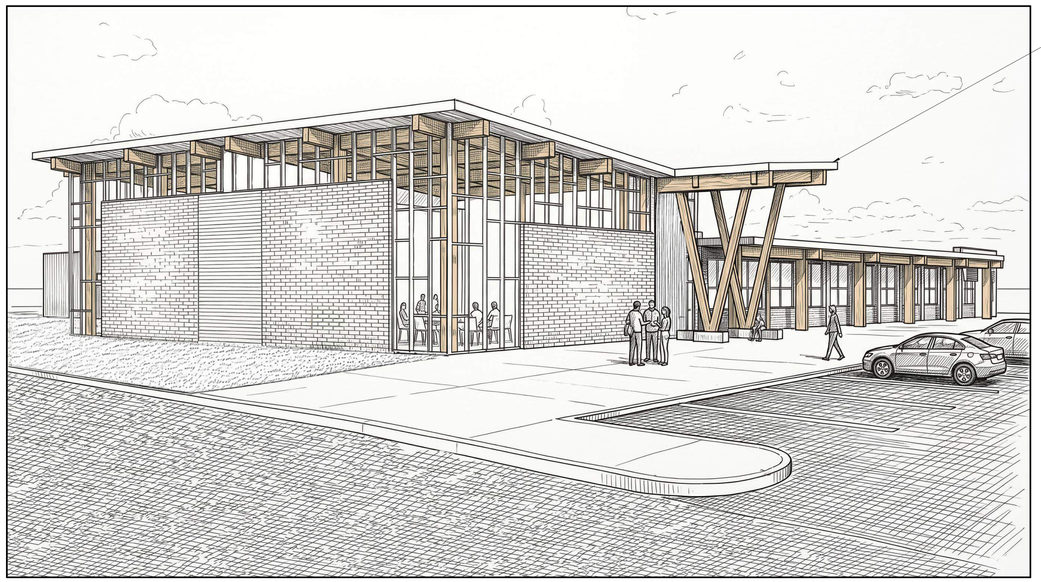
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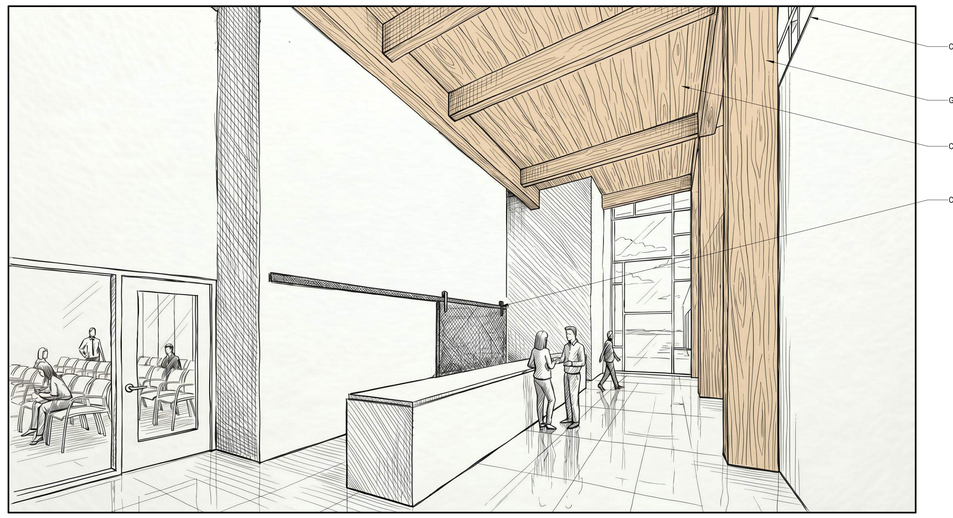
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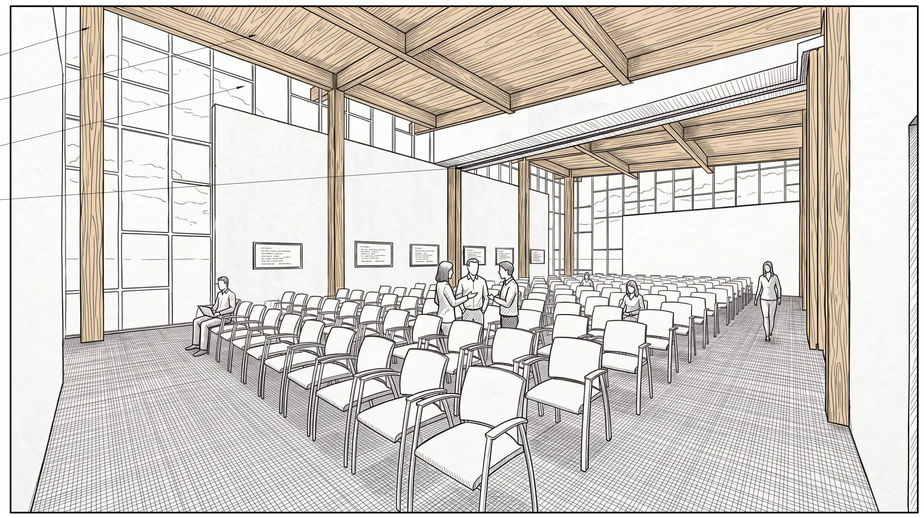
THE SQUARES MADE ARE COLOR: WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY



EXTERIOR PERSPECTIVE



LOBBY PERSPECTIVE



TRAINING ROOM PERSPECTIVE



ADMINISTRATION WING PERSPECTIVE



PSAP PERSPECTIVE

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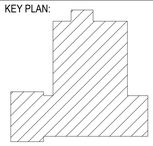
CITY OF FAYETTEVILLE
911 CENTER
433 HAY STREET
FAYETTEVILLE, NC 28301

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 225358
Drawn By: OA / JS
Checked By: DP

KEY PLAN:



Drawing
EXTERIOR AND INTERIOR PERSPECTIVES

A-803

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2026-07-22
SCHEMATIC DESIGN PROGRESS

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ATTACHMENT A – PROJECT DATA SHEET

Complete this form upon contract execution. All figures are subject to revision by written amendment.

PROJECT IDENTIFICATION	
Project Name:	_____
Project Description:	_____
Site Address / Location:	_____
City Department / Division:	_____
Owner's Representative:	_____
Project Designer (Architect / Engineer):	_____
BUDGET & FINANCIAL	
Total Construction Budget (City Council Approved):	$_____

Owner's Construction Contingency (Outside GMP; 100% City-funded**):**	$_____
CMAR-GMP Contingency Cap:	3.0% of Cost of Work + General Conditions lump sum (not to exceed 4.0%)
Cost Savings**:**	100% retained by the City of Fayetteville. No shared savings split. NC 911 Fund proceeds may be used only to pay actual eligible Project costs and may not be distributed as savings, incentive, or bonus.
Unused CMAR-GMP Contingency:	100% retained by the City of Fayetteville
Pre-Construction Fee:	$_____
Liquidated Damages Rate (Construction Phase):	$4,000.00 per calendar day
SCHEDULE	
Pre-Construction NTP Date:	_____
Projected GMP Amendment Date:	_____
Projected Construction Start:	_____
Required Substantial Completion Date:	_____
Required Final Completion Date:	_____
SLBE / FUNDING	
SLBE Goal:	_____%
Federal Funding:	Yes / No
Federal Agency (if applicable):	_____
Federal Award No. (if applicable):	_____
Davis-Bacon Act Applies:	Yes / No

ATTACHMENT B – PRE-CONSTRUCTION DELIVERABLES SCHEDULE

The following deliverables are required from the CMAR at each design milestone. All deliverables shall be submitted to the City's Owner's Representative and the Project Designer simultaneously. Unless otherwise noted, the City shall accept or reject each deliverable in writing within fifteen (15) days of receipt.

Milestone	Required Deliverable	Due (Days After Milestone Docs)	Acceptance Criteria
Schematic Design (SD)	Constructability Review Comments (written)	21	Written comments accepted by City
Schematic Design (SD)	Preliminary Cost Estimate by Trade / CSI Division	21	Estimate within Total Construction Budget or variance documented
Schematic Design (SD)	Budget Status Report – SD Milestone	21	Signed CMAR certification submitted
Schematic Design (SD)	Master Project Schedule – Pre-Construction Baseline	21	Approved by City
Design Development (DD)	Constructability Review Comments	21	Written comments accepted by City
Design Development (DD)	Updated Cost Estimate – DD Level	21	Within Total Construction Budget or variance plan provided
Design Development (DD)	Budget Status Report – DD Milestone	21	Signed CMAR certification submitted
Design Development (DD)	Updated Master Schedule	15	Approved by City
Design Development (DD)	Subcontractor Pre-Qualification – Initial List	30	List approved by City
Construction Documents (CD) 50%	Constructability Review Comments – 50% CD	21	Written comments accepted by City
Construction Documents (CD) 50%	Updated Cost Estimate – 50% CD Level	21	Within Total Construction Budget or variance plan
Construction Documents (CD) 50%	Subcontractor Pre-Qualification – Final List	21	Approved by City
Construction Documents (CD) 100%	Phase Transition Checkpoint Certification (Article 3.6)	10	All certifications confirmed in writing by City

ATTACHMENT C – KEY PERSONNEL

The following individuals are designated as Key Personnel for this Project. Their assignment, replacement, or removal requires the prior written approval of the City's Owner's Representative, subject to Article 8.2 of this Contract.

Role	Name	Phase Assignment	Minimum Availability
Project Executive	_____	Pre-Construction & Construction	Available within 24 hours upon request.
Project Manager	_____	Pre-Construction & Construction	Regular on-site presence during Construction Phase and available within 24 hours upon request
Project Superintendent	_____	Construction Phase	Full-time on-site
Project Engineer	_____	Pre-Construction & Construction	Full-time on-site during Construction Phase
Lead Estimator	_____	Pre-Construction Phase	Available for all estimating milestones
Safety Manager	_____	Construction Phase	Full-time on-site

Additional Key Personnel may be designated by mutual written agreement of the parties.

ATTACHMENT D – GMP AMENDMENT TEMPLATE

GMP AMENDMENT – SINGLE GMP

(Authorization to Commence Construction Services)

This GMP Amendment ("Amendment") is entered into as of the _____ day of _____, 20_____, by and between the City of Fayetteville, North Carolina ("City") and _____("CMAR"), and amends the Construction Manager at Risk Contract dated _____.

WHEREAS, the CMAR has submitted a Guaranteed Maximum Price for the Work; and

WHEREAS, City Council has approved the GMP by resolution dated _____; and

WHEREAS, the parties desire to formalize the GMP and authorize commencement of Construction Services;

NOW, THEREFORE, the parties agree as follows:

GUARANTEED MAXIMUM PRICE BREAKDOWN	
Cost of the Work (Subcontracts + Direct Costs)	$_____
CMAR General Conditions – Fixed Lump Sum	$_____
CMAR-GMP Contingency (3.0% target; not to exceed 4.0%)	$_____
CMAR Fee (_____% – Fixed Lump Sum)	$_____
TOTAL GUARANTEED MAXIMUM PRICE	**$**_____

Construction Services Notice to Proceed Date: _____

Required Substantial Completion Date: _____

Required Final Completion Date: _____

Liquidated Damages Rate: $_____per calendar day after required Substantial Completion

The CMAR shall deliver Performance and Payment Bonds each in the amount of $_____(100% of GMP), naming the City of Fayetteville as obligee, within ten (10) days of executing this Amendment.

There shall be no shared-savings allocation. One hundred percent (100%) of any Cost Savings and of any unused CMAR-GMP Contingency shall be retained by the City pursuant to Article 6. NC 911 Fund proceeds may be used only to pay actual, eligible Project costs.