Town of Rolesville, NC
Department of Planning

502 Southtown Circle
Rolesville, NC 27571
Phone: (919) 556-3506

Comments on #SDP-26-0008 - Planning & Zoning: Site Development Plan

Application Number: #SDP-26-0008
Application Type: Site Development Plan
Date: July 24, 2026
Address: 408 E YOUNG ST, ROLESVILLE, NC 27571
Parcel: 1768098727

THIS DOCUMENT IS NOT AN APPROVAL.

The Town of Rolesville Technical Review Committee has reviewed your Site Development Plan Application and provided a set of comments requiring your attention. These comments must be addressed in full before approval is issued.

Reviewing this document on the GovWell, our online portal, will allow you to view interactive markups on the document. If you are viewing this as a PDF or offline, a list of all comments will be provided below in this cover sheet. These comments must be addressed before approval is granted.

After you have addressed all comments, please upload corrected versions of the plans by clicking here or by visiting https://app.govwell.com/record/fa28f729-d771-4628-afa1-8b9ef3c30250.

Contacts

Austin Bain City of Raleigh Engineer	(919) 996-3468 austin.bain@raleighnc.gov	Updates Requested
David Simmons Police Chief	dsimmons@rolesvillenc.gov	Approved
Eddie Henderson Parks & Recreation	ehenderson@rolesvillenc.gov	Approved
Elizabeth Powell Wake County Watershed Mgmt	elizabeth.powell@wake.gov	No Comment
Jacob Butler Interim Fire Chief	jbutler@rolesvillenc.gov	No Comment
Jacqueline Thompson On-Call Civil Engineer	jacqueline.thompson@bolton-menk.com	Updates Requested

Lorna Withrow Wake County Watershed Mgmt	lorna.withrow@wake.gov	Updates Requested
Meredith Gruber Senior Planner	mgruber@rolesvillenc.gov	Updates Requested
Michael Elabarger Assistant Planning Director	melabarger@rolesvillenc.gov	Repeat Comment(s)
Michele Raby Planner II	mraby@rolesvillenc.gov	Updates Requested
Scott Miles Town Engineer PE	smiles@rolesvillenc.gov	Approved
Stephen Wensman Planning Director	swensman@rolesvillenc.gov	Updates Requested
Stephen Wolf Wake County Deputy Fire Marshal	stephen.wolf@wake.gov	Repeat Comment(s)
Tanner Hayslette Planner I	thayslette@rolesvillenc.gov	Approved
Wyat Hamilton NCDOT	wrhamilton@ncdot.gov	Review complete *See comments

Comments on Plan

Reviewer feedback tied to specific locations on the plan. The number on each comment corresponds to a matching number marked on the plan page. Each comment must be resolved in GovWell.

1 WH Wyat Hamilton
NCDOT

What is phasing for construction of the proposed connector road (already with DOT), the police station, and fire station? What is the timeline for the phasing?

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • June 25, 2026, 11:07am

2 MR Michele Raby
Planner II

Rolesville (not Raleigh) SDP-26-0008

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • June 24, 2026, 8:03am

3 AB Austin Bain
City of Raleigh Engineer

Submit to Energov for COR review. Include the COR review number on cover sheet. Include the Rolesville review in the details on Energov for cross reference.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • July 23, 2026, 9:29am

4 MR Michele Raby
Planner II

Lot 2? Is there an addressing plan? Have you contacted WC E-911 for addressing?

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • June 24, 2026, 8:07am

5 SW Stephen Wolf
Wake County Deputy Fire Marshal

** Plans are preliminary and not for construction. The address listed is for the entire site. Please provide Wake County GIS approved address when building plans are submitted.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • July 8, 2026, 11:23am

6 EP Elizabeth Powell
Wake County Watershed Mgmt

Please make erosion control and stormwater (SEC/SWF) submittals to Wake County to receive comments

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • June 24, 2026, 8:44am

7 MR Michele Raby
Planner II

Area shown is 406 & 408 E Young. Will a recombination plat be recorded?

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • June 24, 2026, 8:06am

8 MG Meredith Gruber
Senior Planner

A Site Development Plan should include a Site Plan as the central plan for the set.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • July 8, 2026, 4:37pm

9 MG Meredith Gruber
Senior Planner

Let's schedule a meeting to go through any questions your team has about recently approved text amendments.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • July 24, 2026, 9:42am

10 MR Michele Raby
Planner II

Please add a lighting plan.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • June 24, 2026, 8:23am

11 MR Michele Raby
Planner II

PIN1768098727 is only for 408 E Young. Please add PIN1769102240 for 406 E Young.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • June 24, 2026, 8:13am

12 ME Michael Elabarger
Assistant Planning Director

The application form indicates a Site Area of 2.5 acres, but the Site Data table on the Cover Sheet (Sheet C-0.00) lists the Deeded Acreage as 13.78 acres and the Disturbed Area as 2.5 acres. Please update the 'Site Area (In Acres)' field on the application form to reflect the total deeded acreage of the parcel.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • July 16, 2026, 3:57pm

13 MR Michele Raby
Planner II

Please add impervious calculations, open space calculations, building height information.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • June 24, 2026, 8:26am

14 LW Lorna Withrow
Wake County Watershed Mgmt

Has yet be submitted to Wake County for erosion control and stormwater review.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • July 9, 2026, 1:49pm

15 MG Meredith Gruber
Senior Planner

See LDO Section 6.2.2.1. Perimeter Buffers, and verify you are looking at the latest version of the LDO dated June 16, 2026. The latest version includes updates as per TA-26-0005 Omnibus Text Amendments--many of these amendments were made to support the Town Campus project. Type 3 Perimeter Buffers require a minimum opacity of 75% up to 6'. This may be achieved with plant material only or a combination of plant material and a wall. At least 50% of plant material shall be evergreen.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • July 8, 2026, 4:30pm

16 MR Michele Raby
Planner II

Please add previous entitlements as shown on the cover sheet example: https://www.rolesvillenc.gov/sites/default/files/uploads/site-development-plans-sdp-non-res-cover-sheet-example.pdf

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1 • June 24, 2026, 8:14am

17 JT Jacqueline Thompson
On-Call Civil Engineer

Please identify if spill curb will be used since a detail is included.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 2 • July 13, 2026, 11:20am

18 JT Jacqueline Thompson
On-Call Civil Engineer

Please show and label a defined property line and the required setbacks and buffers.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 2 • July 14, 2026, 8:20am

19 JT Jacqueline Thompson
On-Call Civil Engineer

Consider a sidewalk connection for convenient access to the larger network.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 2 • July 14, 2026, 8:21am

20 MR Michele Raby
Planner II

Sign easements require recordation and addressing for permits.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 3 • June 24, 2026, 8:21am

21 JT Jacqueline Thompson
On-Call Civil Engineer

Please confirm if this area has been cleared of all vegetation and there are no removals to occur.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 3 • July 14, 2026, 8:23am

22 JT Jacqueline Thompson
On-Call Civil Engineer

Please label all easements

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 3 • July 13, 2026, 11:15am

23 JT Jacqueline Thompson
On-Call Civil Engineer

Confirm if this existing storm system has an easement.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 3 • July 14, 2026, 8:23am

24 JT Jacqueline Thompson
On-Call Civil Engineer

Please confirm if spill curb is expected to be used on site. Identify/label where.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 4 • July 13, 2026, 11:19am

25 JT Jacqueline Thompson
On-Call Civil Engineer

Please confirm if this existing storm is public or private and if it will have an easement.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 4 • July 13, 2026, 11:17am

26 JT Jacqueline Thompson
On-Call Civil Engineer

Please include scale and north arrow.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 4 • July 13, 2026, 11:26am

27 JT Jacqueline Thompson
On-Call Civil Engineer

Please include north arrow and scale.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 5 • July 13, 2026, 11:26am

28 JT Jacqueline Thompson
On-Call Civil Engineer

For all crossing locations, please provide crossing information to ensure minimum separation requirements are being met.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 6 • July 13, 2026, 11:28am

29 SW Stephen Wolf
Wake County Deputy Fire Marshal

** Plans are preliminary and not for construction. Please include fire line, FDC, and all fire hydrant information on the next submittal. Also include a fire truck turning diagram to include a minimum inside turning radius of 28 feet.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 6 • July 8, 2026, 1:25pm

30 MR Michele Raby
Planner II

Will there be a truck gas fueling area?

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 6 • June 24, 2026, 8:20am

31 MR Michele Raby
Planner II

Will there be a trash enclosure?

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 6 • June 24, 2026, 8:29am

32 JT Jacqueline Thompson
On-Call Civil Engineer

Leader is not pointing to anything. Please review and adjust

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 6 • July 13, 2026, 11:29am

33 JT Jacqueline Thompson
On-Call Civil Engineer

Please include a scale and north arrow

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 6 • July 13, 2026, 11:26am

34 SW Stephen Wensman
Planning Director

Is this a sidewalk between paved patio area and public sidewalk?

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:43pm

35 SW Stephen Wensman
Planning Director

If a public access door, provide sidewalk to public R/W sidewalk.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:42pm

36 SW Stephen Wensman
Planning Director

LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:14pm

37 SW Stephen Wensman
Planning Director

LDO Section 6.2.4.4.G Parking Perimeter Plantings Required

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:22pm

38 SW Stephen Wensman
Planning Director

Street buffer required along public streets- but may be eliminated with Downtown Overlay Zoning Text Amendment

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:03pm

39 SW Stephen Wensman
Planning Director

LDO Section 6.2.4.4.G Parking Perimeter Plantings Required

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:23pm

40 SW Stephen Wensman
Planning Director

LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:14pm

41 SW Stephen Wensman
Planning Director

LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:14pm

42 SW Stephen Wensman
Planning Director

LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:15pm

43 SW Stephen Wensman
Planning Director

LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:13pm

44 SW Stephen Wensman
Planning Director

LDO Section 6.2.4.4.G Parking Perimeter Plantings Required

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:23pm

45 SW Stephen Wensman
Planning Director

LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:14pm

46 SW Stephen Wensman
Planning Director

General Note: show parking lot lights on the landscape plan to ensure both plans are coordinated.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:17pm

47 SW Stephen Wensman
Planning Director

LDO Section 6.2.4.4.G Parking Perimeter Plantings Required

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:24pm

48 SW Stephen Wensman
Planning Director

LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:14pm

49 SW Stephen Wensman
Planning Director

LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:15pm

50 SW Stephen Wensman
Planning Director

Provide buffer planting calculations

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 7 • July 1, 2026, 4:39pm

51 ME Michael Elabarger
Assistant Planning Director

Does sheet AR200 replace this sheet A200? having both in the same plan set is confusing. Is there a reason or purpose for A200 given AR200?

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 15 • July 16, 2026, 4:13pm

52 SW Stephen Wensman
Planning Director

This note should be on the landscape plans.

C-0.00 COVER.pdf · Page 1 • July 1, 2026, 4:48pm

53 SW Stephen Wensman
Planning Director

See updated buffer requirements and add 75% opacity requirement to this note

C-0.00 COVER.pdf · Page 1 • July 1, 2026, 4:47pm

54 ME Michael Elabarger
Assistant Planning Director

Remove this 2nd note here - see other Comment about Public Safety uses being exempted from Transparency requirement.

Exterior Elevations_AR200-20260615.pdf · Page 1 • July 16, 2026, 4:01pm

55 ME Michael Elabarger
Assistant Planning Director

LDO 6.8.2.D.2. - the 4th sentence - says: " Public Safety uses included in Government Facility uses are exempt from this requirement. " Please add a note re-stating that on the elevation drawings to explain for the future WHY this building is not meeting the Transparency requirements - because they are Not Applicable to public safety uses. TY.

Exterior Elevations_AR200-20260615.pdf · Page 1 • July 16, 2026, 3:59pm

56 ME Michael Elabarger
Assistant Planning Director

This top note - saying it is applicable is not the plans demonstrating compliance - there are lots of materials and measurement call-outs, but none relate to an LDO standard that says "the minimum of this is X and Y is proposed, and thus complies" - that is demonstration of compliance.

Exterior Elevations_AR200-20260615.pdf · Page 1 • July 16, 2026, 4:04pm

57 ME Michael Elabarger
Assistant Planning Director

SIGNAGE is a separate Permit process - NO signage is being approved within this plan set.

Exterior Elevations_AR200-20260615.pdf · Page 1 • July 16, 2026, 3:48pm

58 ME Michael Elabarger
Assistant Planning Director

While no SIGNAGE is reviewed or approved (permitted) via this Site Development Plan - the numbers indicated do NOT equate to compliance - if the maximum sign area is 200SF, you can't propose 214 SF - that is Not In Compliance.

Exterior Elevations_AR200-20260615.pdf · Page 1 • July 16, 2026, 3:49pm

59 ME Michael Elabarger
Assistant Planning Director

See Previous Comment about Public Safety uses being exempt from Transparency - remove this note altogether.

Exterior Elevations_AR200-20260615.pdf · Page 1 • July 16, 2026, 4:02pm

100% DESIGN DEVELOPMENT

CID-25-07 | RALEIGH PLAN CASE # SDP-26-XX

TOWN OF ROLESVILLE FIRE STATION #1

LOT 2 - 408 E. YOUNG STREET

ROLESVILLE NC, 27571

TOWN OF ROLESVILLE

JUNE 22ND, 2026

VICINITY MAP

0 200 400

SITE DATA

OWNER:	TOWN OF ROLESVILLE 502 S MAIN ST ROLESVILLE, NC 27571 MICHAEL BASSELIOS, PE, PMP DIRECTOR OF PUBLIC WORKS/CE, TOWN OF ROLESVILLE MICHAEL.BASSELIOS@ROLESVILLENC.GOV
LANDSCAPE ARCHITECT/ DESIGNER CONTACT:	CLH DESIGN, P.A. RALEIGH, MATSON, TJ A 919-329-4779 400 REGENCY FOREST DRIVE, STE 120 CARY, NC 27511 RMATSON@CLHDESIGNPA.COM
CIVIL ENGINEER/ DESIGNER CONTACT:	CLH DESIGN, P.A. OLDEHAM, JOSEPH A 919-329-4779 400 REGENCY FOREST DRIVE, STE. 120 CARY, NC 27511 OLDEHAM@CLHDESIGNPA.COM
PROJECT ADDRESS:	LOT 2 - 408 E. YOUNG ST ROLESVILLE, NC 27571
PLANNING JURISD:	TOWN OF ROLESVILLE
PIN:	1768098727
DEEDED ACREAGE:	13.78
ZONING:	MI - INDUSTRIAL BUSINESS INDUSTRIAL AND TECHNOLOGY
EXISTING USE:	VACANT
PROPOSED USE:	FIRE STATION
DISTURBED AREA:	2.5 ACRES
PROPOSED IMP. BUILDING AREA SF:	19,449 SQFT
BUILDING HEIGHT:	
RIVER BASIN:	NEUSE RIVER
FLOODZONE:	N/A
ITDAA MAP#:	PANEL 3720978300J

SHEET INDEX

CIVIL

C-0.00 COVER

C-1.01 STAKING PLAN

C-2.01 EXISTING CONDITIONS & DEMOLITION PLAN

C-3.01 GRADING PLAN

C-4.01 EROSION CONTROL PLAN

C-5.01 UTILITY PLAN

C-6.01 LANDSCAPE PLAN

C-8.01 SITE DETAILS

C-8.02 SITE DETAILS

C-9.01 UTILITY DETAILS

C-9.02 UTILITY DETAILS

C-9.03 UTILITY DETAILS

C-9.04 UTILITY DETAILS

C-9.05 UTILITY DETAILS

ARCHITECTURAL

A200 EXTERIOR ELEVATIONS

PARKING SPACE REQUIREMENTS:

PARKING STANDARD - 2.5 PARKING SPACES PER 1000SF
19,449SF / 1000SF * 2.5
= 49 PARKING SPACES REQUIRED
47 PARKING SPACES PROVIDED + 3 SPACE PARKING CANOPY

BIKE STANDARD - 1 SPACE PER 5000SF
19,449SF / 5,000SF
= 4 BIKE SPACES REQUIRED
4 BIKE SPACES PROVIDED

TYPE 3 LANDSCAPE BUFFER REQUIREMENTS:

25' TYPE 3 LANDSCAPE BUFFER:

STANDARD - 4 TREES PER 100LF - (380LF / 100) X 4 = 15 TREES REQUIRED
15 TREES PROVIDED

STANDARD - 2 UNDERSTORY TREES PER 100LF - (380LF / 100) X 2 = 8 TREES REQUIRED
8 UNDERSTORY TREES PROVIDED

STANDARD - 60 SHRUBS PER 100LF - (380LF / 100) X 60 = 228 SHRUBS REQUIRED
228 SHRUBS PROVIDED

6' WALL - NOT PROVIDED

ATTENTION CONTRACTORS

THE CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER, AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT TO SCHEDULE A PRE-CONSTRUCTION MEETING ON THE DEVELOPMENT PORTAL PRIOR TO BEGINNING ANY CONSTRUCTION.
RALEIGH WATER MUST BE CONTACTED AT (919) 996-4540 AT LEAST TWENTY-FOUR HOURS PRIOR TO BEGINNING ANY WORK ACTIVITY AROUND CRITICAL WATER AND SEWER INFRASTRUCTURE.

FAILURE TO NOTIFY CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, AS REQUIRED BY THE CITY CODE OF ORDINANCES, MAY REQUIRE REINSTALLATION OF ANY WATER OR SEWER FACILITIES NOT INSPECTED AS A RESULT OF THIS NOTIFICATION FAILURE.

FAILURE TO CALL FOR INSPECTION, INSTALL A DOWNSTREAM PLUG, HAVE PERMITTED PLANS ON THE JOBSITE, OR ANY OTHER VIOLATION OF CITY OF RALEIGH STANDARDS WILL RESULT IN A FINE AND POSSIBLE EXCLUSION FROM FUTURE WORK IN THE CITY OF RALEIGH.

TOWN OF ROLESVILLE SIGNATURE BLOCK

RESERVED FOR FINAL SIGNATURES AND STAMPS AFTER FINAL APPROVAL

APPROVED:

EROSION CONTROL ☐ DATE: _____

STORMWATER FACILITY ☐ DATE: _____

FLOOD STUDY ☐ DATE: _____

FIRE: _____

adw architects
environments for life
architecture planning interiors
2815 coliseum centre drive
suite 500
charlotte, nc 28217
704.379.1919
adwarchitects.com

Rolesville
Historic Community, Inspired Connections
Est. 1837

ROLESVILLE FIRE DEPT. VOLUNTEER PROFESSIONALISM DEDICATION

CLH DESIGN
CLH design, p.a.
400 Regency Forest D
Suite 120
Cary, NC 27518
Phone: 919.319.4779
Lic. C-106, PE, C-106

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

COVER

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED IN PART OR IN WHOLE OR PART. IT SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN TO ANY OTHER COMPANY OR AGENCY WITHOUT THE CONSENT OF ADW ARCHITECTS, P.A.

SHEET NUMBER

C-0.00

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 1

1 **Wyat Hamilton**
What is phasing for construction of the proposed connector road (already with DOT), the police station, and fire station? What is the timeline for the phasing?

2 **Michele Raby**
Rolesville (not Raleigh) SDP-26-0008

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Submit to Energov for COR review. Include the COR review number on cover sheet. Include the Rolesville review in the details on Energov for cross reference.

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Lot 2? Is there an addressing plan? Have you contacted WC E-911 for addressing?

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** Plans are preliminary and not for construction. The address listed is for the entire site. Please provide Wake County GIS approved address when building plans are submitted.

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Please make erosion control and stormwater (SEC/SWF) submittals to Wake County to receive comments

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A Site Development Plan should include a Site Plan as the central plan for the set.

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Please add a lighting plan.

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PIN1768098727 is only for 408 E Young. Please add PIN1769102240 for 406 E Young.

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Please add impervious calculations, open space calculations, building height information.

14 **Lorna Withrow**
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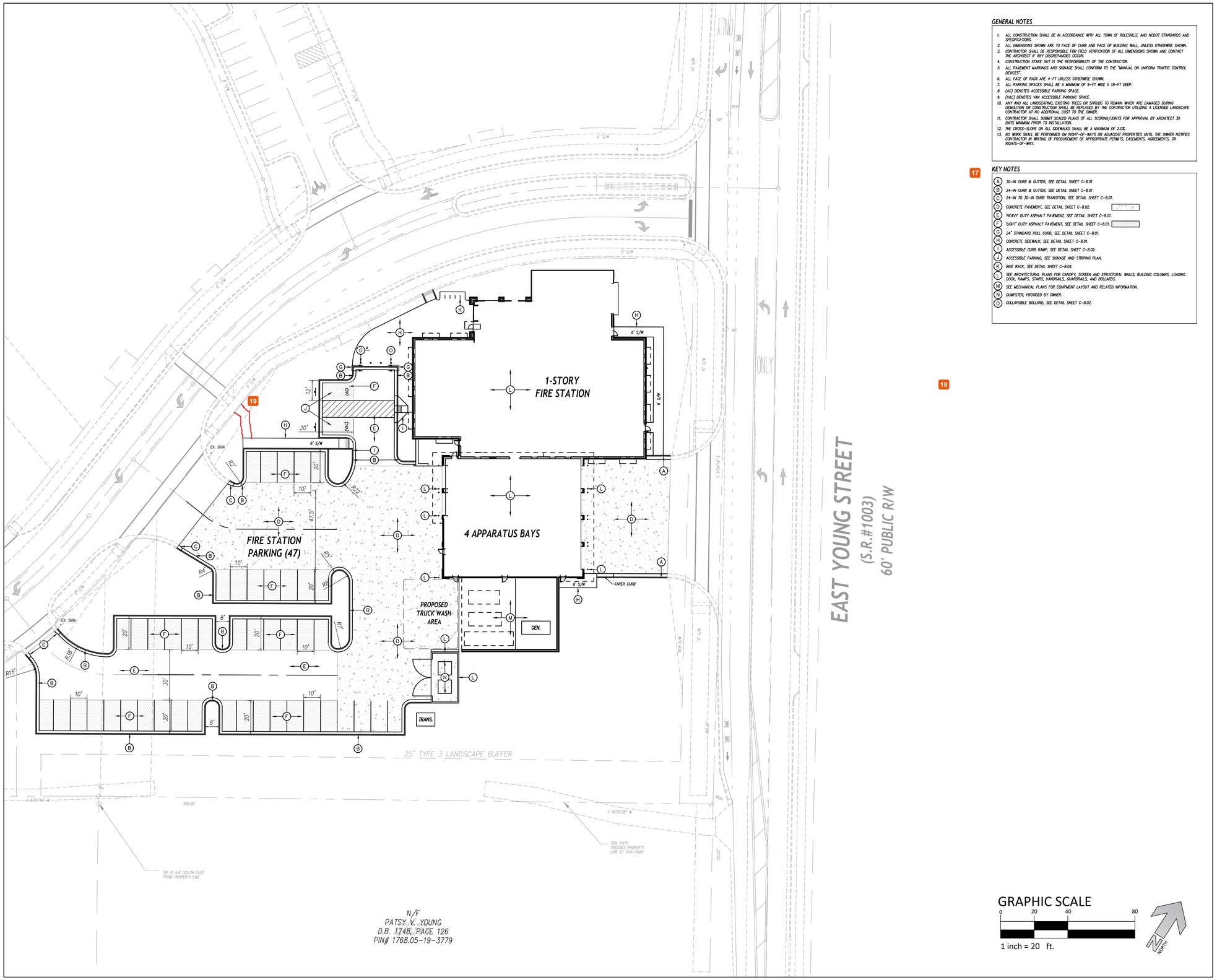
Please add previous entitlements as shown on the cover sheet example: https://www.rolesvillenc.gov/sites/default/files/uploads/site-development-plans-sdp-non-res-cover-sheet-example.pdf



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF RADII ARE 4-FT UNLESS OTHERWISE SHOWN.
7. ALL PARKING SPACES SHALL BE A MINIMUM OF 9-FT WIDE X 18-FT DEEP.
8. (AC) DENOTES ACCESSIBLE PARKING SPACE.
9. (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
10. ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

KEY NOTES

- (A) 30-IN CURB & GUTTER, SEE DETAIL SHEET C-8.01
- (B) 24-IN CURB & GUTTER, SEE DETAIL SHEET C-8.01
- (C) 24-IN TO 30-IN CURB TRANSITION, SEE DETAIL SHEET C-8.01.
- (D) CONCRETE PAVEMENT, SEE DETAIL SHEET C-8.02.
- (E) "HEAVY" DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C-8.01.
- (F) "LIGHT" DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C-8.01.
- (G) 24" STANDARD ROLL CURB, SEE DETAIL SHEET C-8.01.
- (H) CONCRETE SIDEWALK, SEE DETAIL SHEET C-8.01.
- (I) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C-8.02.
- (J) ACCESSIBLE PARKING, SEE SIGNAGE AND STRIPING PLAN.
- (K) BIKE RACK, SEE DETAIL SHEET C-8.02.
- (L) SEE ARCHITECTURAL PLANS FOR CANOPY, SCREEN AND STRUCTURAL WALLS, BUILDING COLUMNS, LOADING DOOR, RAMPS, STAIRS, HANDRAILS, GUARDRAILS, AND BOLLARDS.
- (M) SEE MECHANICAL PLANS FOR EQUIPMENT LAYOUT AND RELATED INFORMATION.
- (N) DUMPSTER, PROVIDED BY OWNER.
- (O) COLLAPSIBLE BOLLARD, SEE DETAIL SHEET C-8.02.

GRAPHIC SCALE
0 20 40 80
1 inch = 20 ft.

NORTH

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LA: C-106, PE: C-1595

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

STAKING PLAN

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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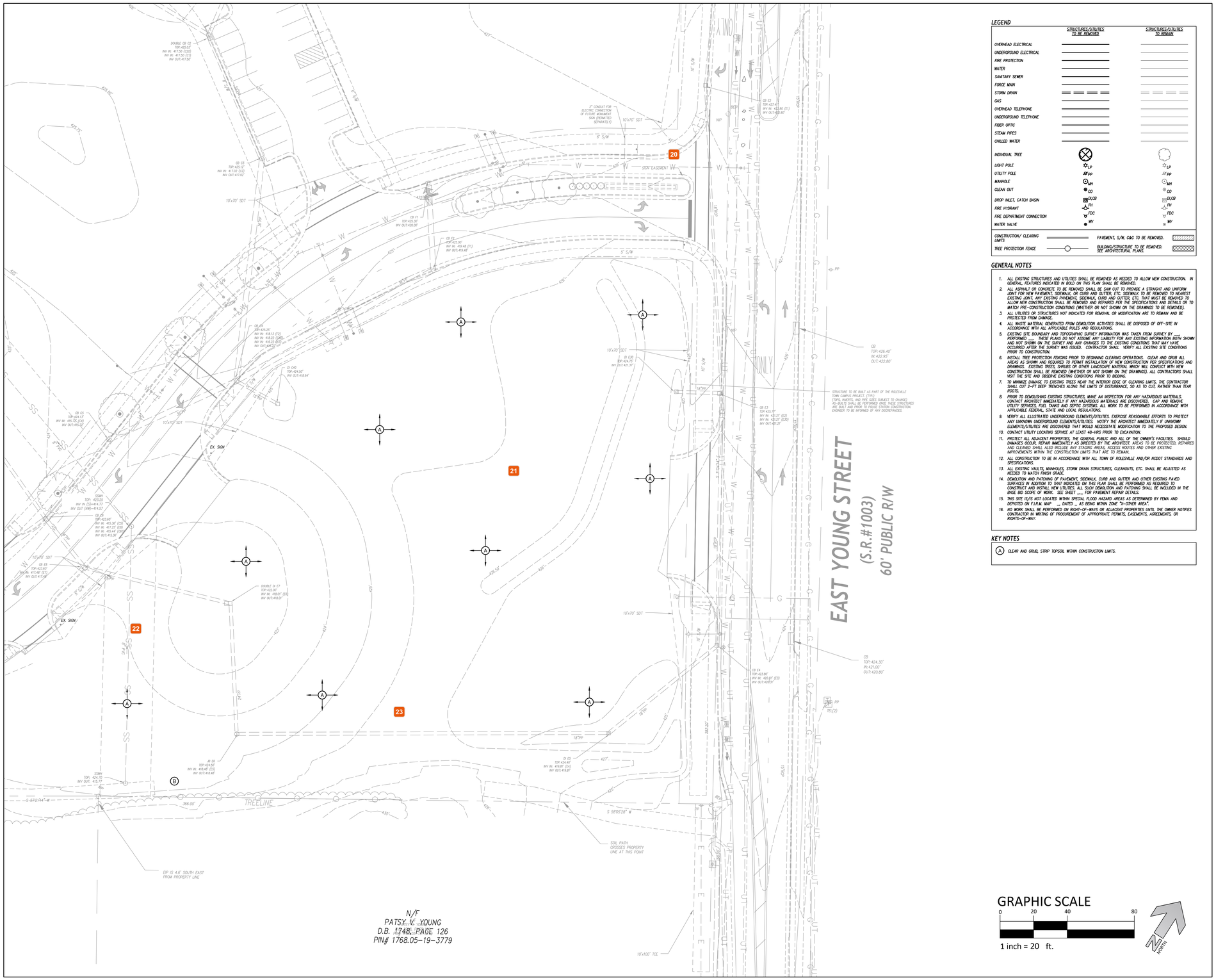
SHEET NUMBER:
C-1.01

17 **Jacqueline Thompson**
Please identify if spill curb will be used since a detail is included.

18 **Jacqueline Thompson**
Please show and label a defined property line and the required setbacks and buffers.

19 **Jacqueline Thompson**
Consider a sidewalk connection for convenient access to the larger network.



LEGEND

	STRUCTURES/UTILITIES TO BE REMOVED	STRUCTURES/UTILITIES TO REMAIN
OVERHEAD ELECTRICAL		
UNDERGROUND ELECTRICAL		
FIRE PROTECTION		
WATER		
SANITARY SEWER		
FORCE MAIN		
STORM DRAIN		
GAS		
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE		
FIBER OPTIC		
STEAM PIPES		
CHILLED WATER		
INDIVIDUAL TREE		
LIGHT POLE	LP	LP
UTILITY POLE	UP	UP
MANHOLE	MH	MH
CLEAN OUT	CO	CO
DROP INLET, CATCH BASIN	DI/CB	DI/CB
FIRE HYDRANT	FH	FH
FIRE DEPARTMENT CONNECTION	FDC	FDC
WATER VALVE	WV	WV

CONSTRUCTION/ CLEARING LIMITS

TREE PROTECTION FENCE

PAVEMENT, S/W, C&G TO BE REMOVED:

BUILDING/STRUCTURE TO BE REMOVED. SEE ARCHITECTURAL PLANS.

GENERAL NOTES

1. ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD ON THIS PLAN SHALL BE REMOVED.
2. ALL ASPHALT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. SIDEWALK TO BE REMOVED TO NEAREST EXISTING JOINT. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
3. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
4. ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
5. EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM SURVEY BY ____, PERFORMED ____. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
6. INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL AREAS AS SHOWN AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS). ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
7. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF CLEARING LIMITS, THE CONTRACTOR SHALL CUT 2-FT DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR ROOTS.
8. PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ARCHITECT IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
9. VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
10. CONTACT UTILITY LOCATING SERVICE AT LEAST 48-HRS PRIOR TO EXCAVATION.
11. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ARCHITECT. AREAS TO BE PROTECTED, REPAIRED AND CLEANED SHALL ALSO INCLUDE ANY STAGING AREAS, ACCESS ROUTES AND OTHER EXISTING IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS THAT ARE TO REMAIN.
12. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE AND/OR NCDOT STANDARDS AND SPECIFICATIONS.
13. ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.
14. DEMOLITION AND PATCHING OF PAVEMENT, SIDEWALK, CURB AND GUTTER AND OTHER EXISTING PAVED SURFACES IN ADDITION TO THAT INDICATED ON THIS PLAN SHALL BE PERFORMED AS REQUIRED TO CONSTRUCT AND INSTALL NEW UTILITIES. ALL SUCH DEMOLITION AND PATCHING SHALL BE INCLUDED IN THE BASE BID SCOPE OF WORK. SEE SHEET ___ FOR PAVEMENT REPAIR DETAILS.
15. THIS SITE IS/IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP ___, DATED __, AS BEING WITHIN ZONE "X-OTHER AREA".
16. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

KEY NOTES

(A) CLEAR AND GRUB, STRIP TOPSOIL WITHIN CONSTRUCTION LIMITS.

GRAPHIC SCALE

0 20 40 80

1 inch = 20 ft.

NORTH

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PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

DEMO PLAN

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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SHEET NUMBER:

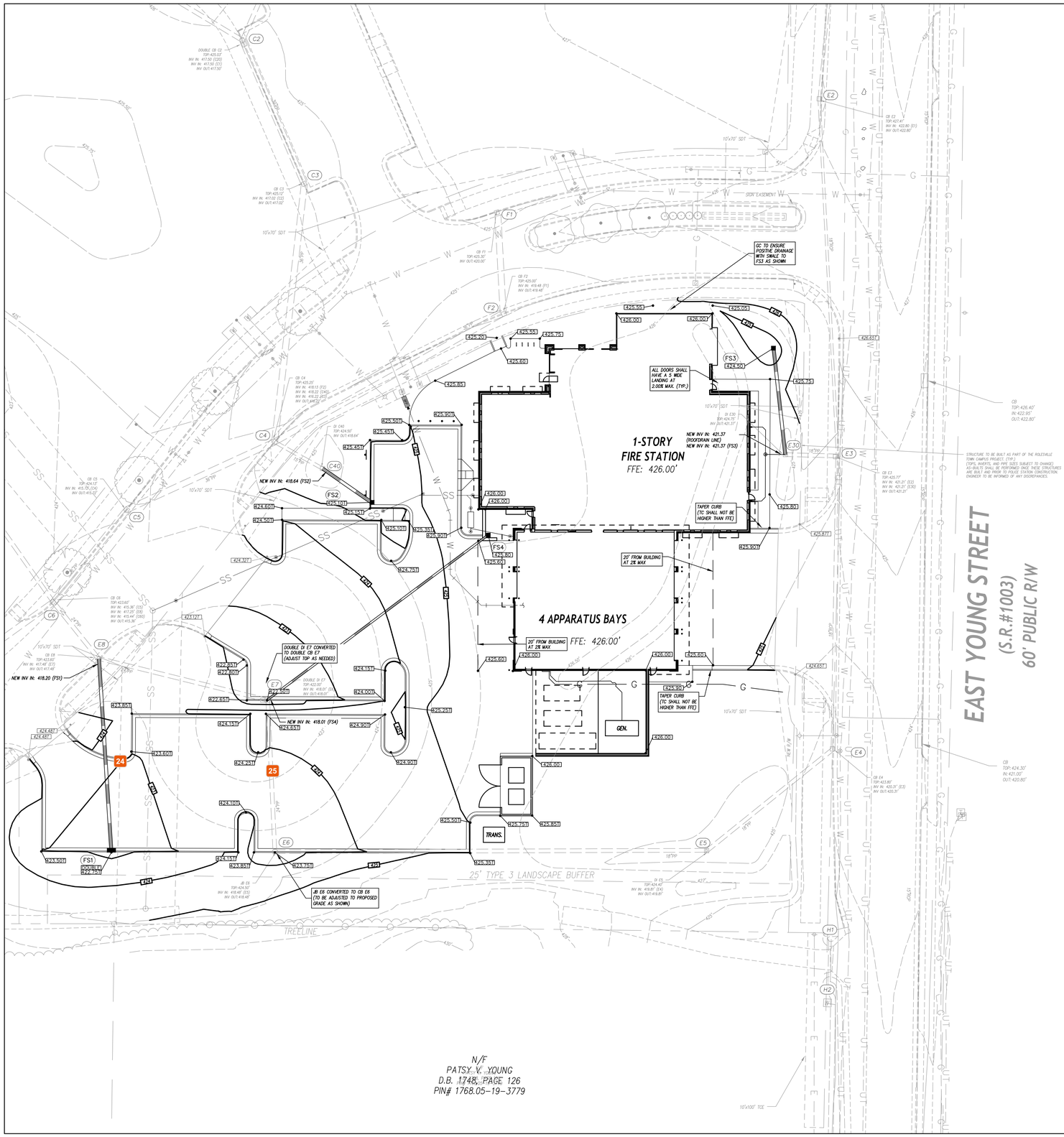
C-2.01

20 **Michele Raby**
Sign easements require recordation and addressing for permits.

21 **Jacqueline Thompson**
Please confirm if this area has been cleared of all vegetation and there are no removals to occur.

22 **Jacqueline Thompson**
Please label all easements

23 **Jacqueline Thompson**
Confirm if this existing storm system has an easement.



GRADING LEGEND

	EXISTING CONTOURS
	FINAL CONTOURS
270.4' +	EXISTING SURVEY SPOT ELEVATION
270.50t	PROPOSED TOP OF CURB SPOT ELEVATION
270.50	PROPOSED GROUND/PAVEMENT ELEVATION
FS4	PROPOSED STORM STRUCTURE NUMBER
(270.50)	GROUND/PAVEMENT ELEVATION BUILT AS PART OF THE ROLESVILLE TOWN CAMPUS PROJECT
A4	STORM STRUCTURE NUMBER BUILT AS PART OF THE ROLESVILLE TOWN CAMPUS PROJECT
	EXISTING STORM DRAIN PIPE
	PROPOSED STORM DRAIN PIPE
FD	PROPOSED FOUNDATION DRAIN DISCHARGE LINE. SEE ARCH. PLANS FOR DRAIN PIPE LOCATIONS ALONG BUILDING WALLS.
RD	PROPOSED ROOF DRAIN
	TREE PROTECTION FENCE

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
3. TOTAL DENUDED AREA = 2.5 AC
4. CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
5. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL ON SHEET C...
7. EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
8. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
10. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
11. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.		PIPE	PIPE	PIPE	PIPE	UPPER	LOWER	UPSTREAM STRUCTURE DATA				
UP STRM	DN STRM	SLOPE	DIA. (IN)	LENGTH (LF)	MATRL	INV. (FT)	INV. (FT)	TOP ELEV. (FT) (1)	DEPTH (FT)		TYPE	NOTES
FS1	E8	0.61%	15	99	PP	418.80	419.20	422.75	3.95		CB	2.
FS2	C40	1.16%	18	31	PP	419.00	418.64	425.10	6.10		CB	1.
FS3	E3	0.60%	15	55	PP	421.70	421.37	424.50	2.80		DI	1.
FS4	E7	1.00%	12	141	PP	419.42	418.01	425.80	6.38		DI	1.

LEGEND	NOTES:
CB CATCH BASIN (SEE DETAIL ON C-5.05) D DROP INLET (SEE DETAIL ON C-5.06) PP POLYPROPYLENE PIPE (A1) STRUCTURE NUMBER	1. USE C-1 INV. 2. DOUBLE INLET

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PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

GRADING PLAN

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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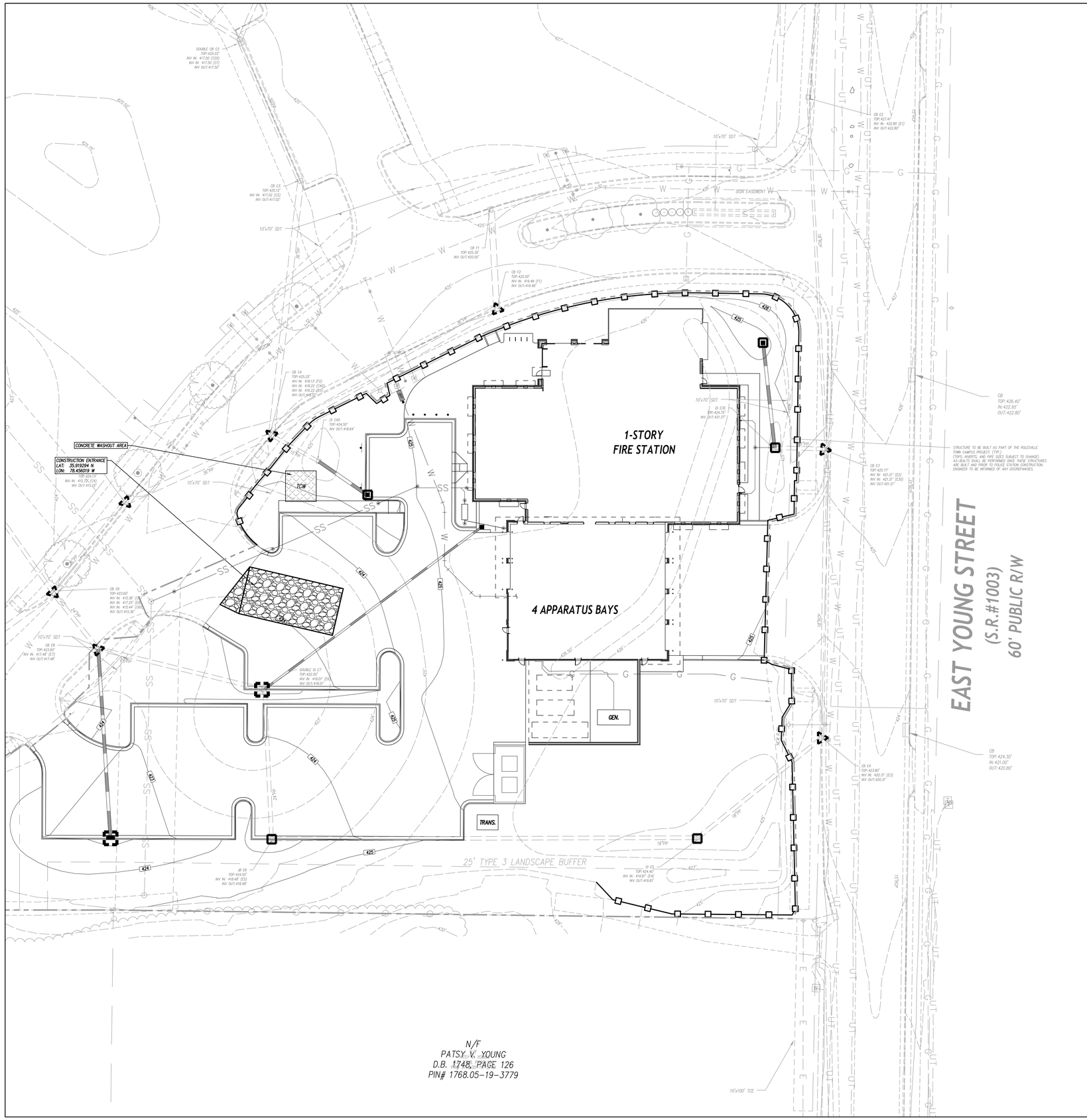
SHEET NUMBER:
C-3.01

24 **Jacqueline Thompson**
Please confirm if spill curb is expected to be used on site. Identify/label where.

25 **Jacqueline Thompson**
Please confirm if this existing storm is public or private and if it will have an easement.

26 **Jacqueline Thompson**
Please include scale and north arrow.



LEGEND

- GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET ___
- TEMP. INLET PROTECTION DEVICE, SEE DETAIL SHEET ___
- TEMP. COMPOST SOCK INLET PROTECTION DEVICE, SEE DETAIL SHEET ___
- TEMP. SILT BAG INLET PROTECTION, SEE DETAIL SHEET ___
- TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET ___
- TEMP. SILT FENCE, SEE DETAIL SHEET ___
- TEMP. REINFORCED SILT FENCE OUTLET, SEE DETAIL SHEET ___
- TEMP. J-HOOK PROTECTION, SEE DETAIL SHEET ___
- PERMANENT OUTLET PROTECTION, SEE DETAIL SHEET ___
- TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET ___ (TCW)
- TEMP. PLASTIC LINING, SEE TEMP. BASIN BAFFLES DETAIL SHEET ___
- TEMP. ROCK CHECK DAM, SEE DETAIL SHEET ___
- TEMP. COFFER DAM, SEE STREAM CROSSING/CULVERT INSTALLATION DETAIL SHEET ___
- TEMP. LEVEL SPREADER, SEE DETAIL SHEET ___
- TEMP. TIMBER/BRIDGE MAT, SEE DETAIL SHEET ___
- TEMP. EXCAVATED INLET, SEE DETAIL SHEET ___
- TEMP. SKIMMER SEDIMENT BASIN, SEE DETAIL SHEET ___ (TSSB)
- TEMP. BAFFLES, SEE DETAIL SHEET ___ (B)
- EXISTING CONTOUR
- FINISHED CONTOUR
- TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
- TEMP. ROCK PIPE INLET PROTECTION, SEE DETAIL SHEET ___
- CHANNEL LINING, SEE DETAIL SHEET ___
- TEMPORARY SLOPE MATTING SLOPES 6:1 OR STEEPER
- TEMP. DEWATERING SILT BAG, SEE DETAIL SHEET ___
- TREE PROTECTION FENCE, SEE DETAIL SHEET ___
- TEMP. COMPOST SOCK, SEE DETAIL SHEET ___
- TEMP. COMPOST SOCK IN CHANNEL, SEE DETAIL SHEET ___
- TEMP. SLOPE DRAIN, SEE DETAIL SHEET ___ (TSD)
- PROPOSED STORM SEWER PIPES
- EXISTING STORM SEWER PIPES
- CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.
- REINFORCED SILT FENCE OUTLET W/ STORAGE, SEE DETAIL SHEET ___
- TRACK-OUT MAT CONSTRUCTION ENTRANCE, SEE DETAIL SHEET ___

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL WAKE COUNTY, NCDEQ, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
4. TOTAL DISTURBED AREA: 2.5 AC.
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET.
6. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
7. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
8. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
9. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
10. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY REQUIRE 1.5 TIMES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
11. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
12. INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET _____ (PERMANENT CHANNEL) AND _____ (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
13. ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
14. ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
15. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
16. CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.
17. CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

MAINTENANCE PLAN

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET _____) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET _____) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
5. ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET ____ FOR SELF-INSPECTION REQUIREMENTS.

THE CONTRACTOR (ACTING AS AN AGENT FOR THE FINANCIALLY RESPONSIBLE PERSON) SHALL PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCDEMLR'S SELF INSPECTION REPORT (WORKSHEET) AND SHALL KEEP COPIES OF INSPECTION REPORTS ONSITE.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET _____.

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION II.B(2) (b)).

THE REQUIREMENTS ON SHEET _____ ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCELSIOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEET ____ EROSION CONTROL CONSTRUCTION SEQUENCE.

SEE SHEET ____ EROSION CONTROL GROUND COVER PLAN FOR MORE INFORMATION.

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CLH DESIGN
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Phone: 919.319.6716
LA: C-106, PE: C-1595

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

EROSION CONTROL PLAN

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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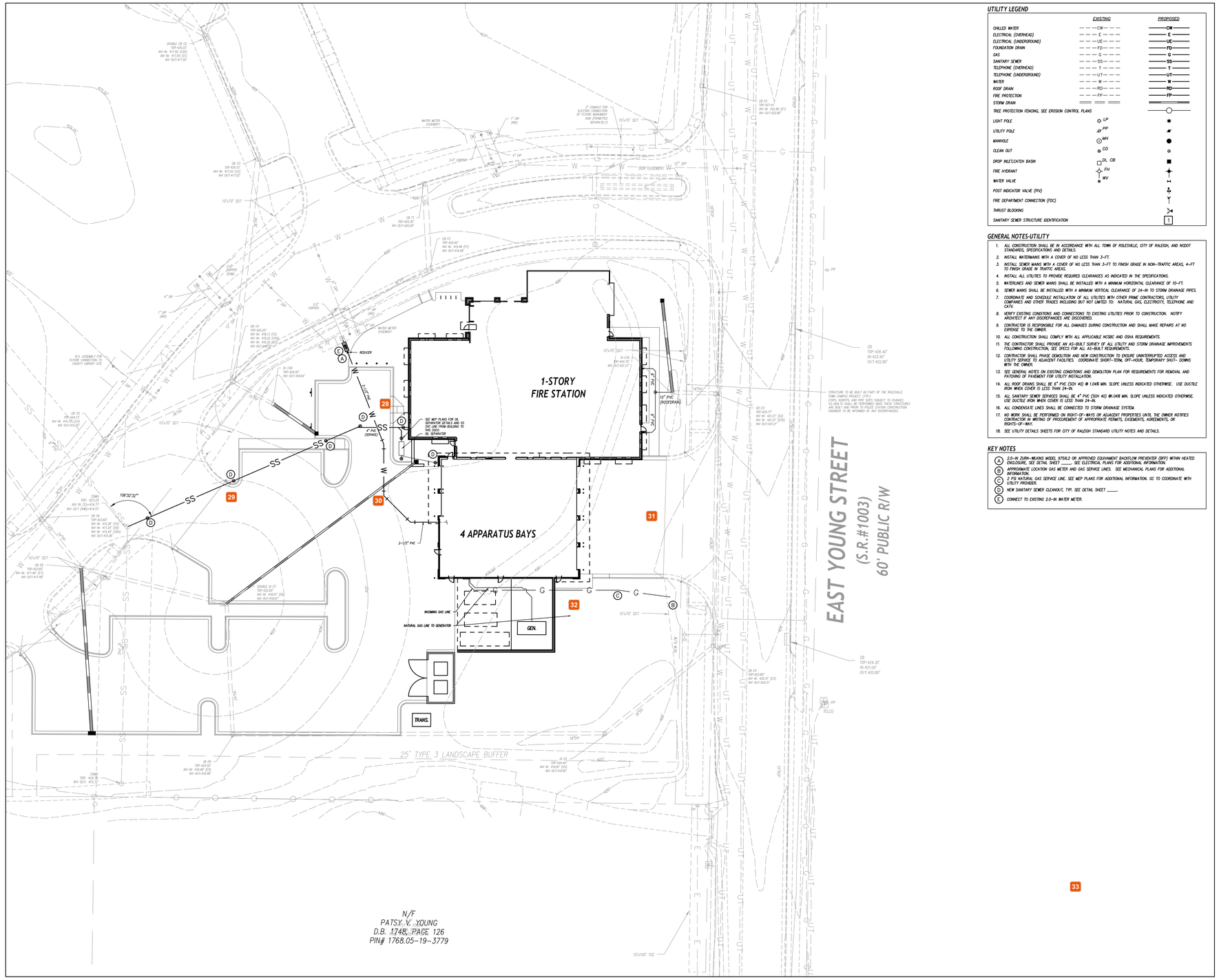
SHEET NUMBER:
C-4.01

27 **Jacqueline Thompson**
Please include north arrow and scale.



UTILITY LEGEND

	EXISTING	PROPOSED
CHILLED WATER	CW	CW
ELECTRICAL (OVERHEAD)	E	E
ELECTRICAL (UNDERGROUND)	UE	UE
FOUNDATION DRAIN	FD	FD
GAS	G	G
SANITARY SEWER	SS	SS
TELEPHONE (OVERHEAD)	T	T
TELEPHONE (UNDERGROUND)	UT	UT
WATER	W	W
ROOF DRAIN	RD	RD
FIRE PROTECTION	FP	FP
STORM DRAIN		
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS		
LIGHT POLE	LP	
UTILITY POLE	PP	
MANHOLE	MH	
CLEAN OUT	CO	
DROP INLET/CATCH BASIN	DI, CB	
FIRE HYDRANT	FH	
WATER VALVE	WV	
POST INDICATOR VALVE (PIV)		
FIRE DEPARTMENT CONNECTION (FDC)		
THRUST BLOCKING		
SANITARY SEWER STRUCTURE IDENTIFICATION		1

GENERAL NOTES-UTILITY

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. INSTALL WATERMAINS WITH A COVER OF NO LESS THAN 3-FT.
3. INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, 4-FT TO FINISH GRADE IN TRAFFIC AREAS.
4. INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
5. WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10-FT.
6. SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 24-IN TO STORM DRAINAGE PIPES.
7. 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.
8. VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
9. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
10. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION, SEE SPECS FOR ALL AS-BUILT REQUIREMENTS.
12. 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.
13. SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
14. 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.
15. ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
16. ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
17. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.
18. SEE UTILITY DETAILS SHEETS FOR CITY OF RALEIGH STANDARD UTILITY NOTES AND DETAILS.

KEY NOTES

- (A) 2.0-IN ZURN-WILKINS MODEL 975XLD OR APPROVED EQUIVALENT BACKFLOW PREVENTER (BFP) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET _____. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (B) APPROXIMATE LOCATION GAS METER AND GAS SERVICE LINES. SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- (C) 2" PSI NATURAL GAS SERVICE LINE. SEE MEP PLANS FOR ADDITIONAL INFORMATION. GC TO COORDINATE WITH UTILITY PROVIDER.
- (D) NEW SANITARY SEWER CLEANOUT, TYP. SEE DETAIL SHEET _____.
- (E) CONNECT TO EXISTING 2.0-IN WATER METER.

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PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

UTILITY PLAN

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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SHEET NUMBER:
C-5.01

28 Jacqueline Thompson
For all crossing locations, please provide crossing information to ensure minimum separation requirements are being met.

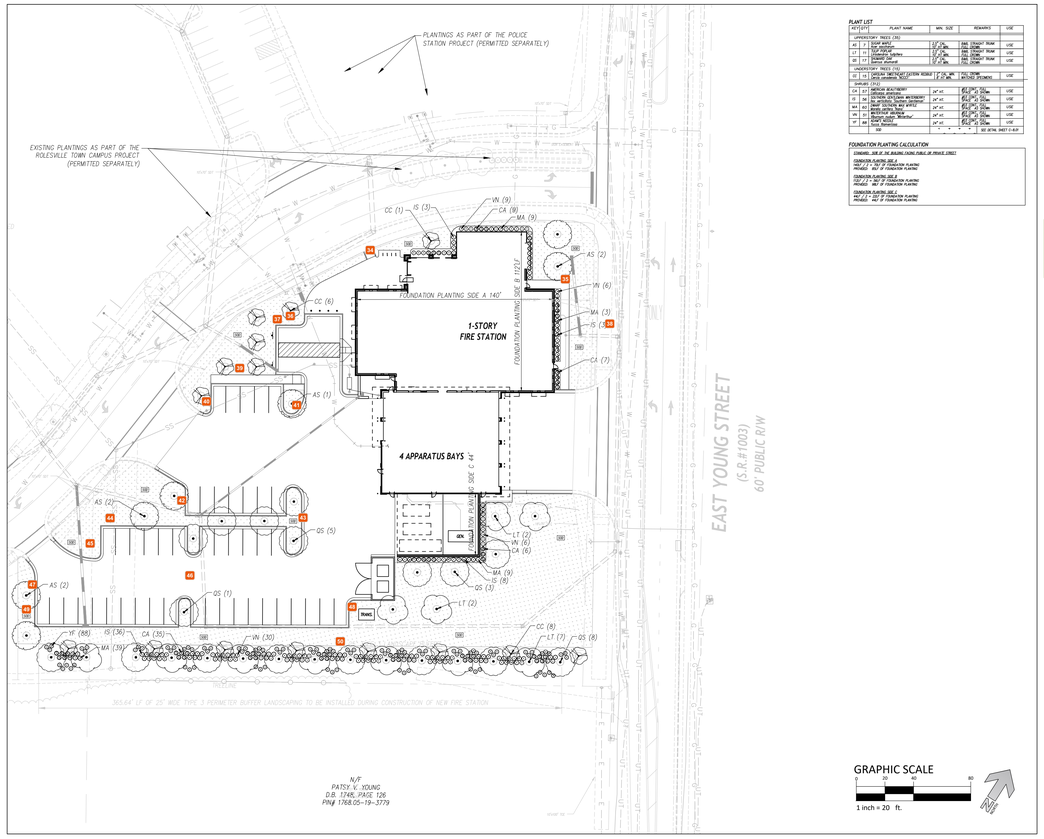
29 Stephen Wolf
** Plans are preliminary and not for construction. Please include fire line, FDC, and all fire hydrant information on the next submittal. Also include a fire truck turning diagram to include a minimum inside turning radius of 28 feet.

30 Michele Raby
Will there be a truck gas fueling area?

31 Michele Raby
Will there be a trash enclosure?

32 Jacqueline Thompson
Leader is not pointing to anything. Please review and adjust

33 Jacqueline Thompson
Please include a scale and north arrow



PLANT LIST

KEY	QTY	PLANT NAME	MIN. SIZE	REMARKS	USE
UPPERCANOPY TREES (TR)					
AR	2	RUBY MAPLE	2.5" CAL.	B&B, STRAIGHT TRUNK	USE
LT	15	TULIP POPLAR	2.5" CAL.	B&B, STRAIGHT TRUNK	USE
QS	17	SAWTOOTH OAK	2.5" CAL.	B&B, STRAIGHT TRUNK	USE
QV	1+7	Quercus shumardii	2.5" CAL.	B&B, STRAIGHT TRUNK FULL CROWN	USE
UNDERSTORY TREES (TU)					
CC	15	CERCIS CANADENSIS 'APPALACHIAN RUBY'	8' HT. MIN.	MULTI-STEM	USE
SHRUBS (SH)					
CA	317	CARISSA GRANDIFLORA	24" HT.	#5 CONT., FULL	USE
IS	142	ILEX X 'SOCIETY GARLAND'	24" HT.	#5 CONT., FULL	USE
MA	165	MYRICA CERIFERA 'DON YOUNG'	24" HT.	#5 CONT., FULL	USE
RR	57	RHAPHIOLEPIS INDICA 'MAJESTIC BEAUTY'	24" HT.	#5 CONT., FULL	USE
YF	268	YUCCA FILAMENTOSA 'GOLDEN SWORD'	24" HT.	#5 CONT., FULL	USE
	958			SEE DETAIL SHEET C-6.01	

FOUNDATION PLANTING CALCULATION

DRAWING: SIDE OF THE BUILDING FACING PUBLIC OR PRIVATE STREET

FOUNDATION PLANTING SIDE A
LENGTH OF FOUNDATION PLANTING
PROVIDED - 40% OF FOUNDATION PLANTING

FOUNDATION PLANTING SIDE B
LENGTH OF FOUNDATION PLANTING
PROVIDED - 40% OF FOUNDATION PLANTING

FOUNDATION PLANTING SIDE C
LENGTH OF FOUNDATION PLANTING
PROVIDED - 40% OF FOUNDATION PLANTING

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Lic: C-106, PE: C-1995

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

LANDSCAPE PLAN

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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SHEET NUMBER
C-6.01

34 **Stephen Wensman**
Is this a sidewalk between paved patio area and public sidewalk?

35 **Stephen Wensman**
If a public access door, provide sidewalk to public R/W sidewalk.

36 **Stephen Wensman**
LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

37 **Stephen Wensman**
LDO Section 6.2.4.4.G Parking Perimeter Plantings Required

38 **Stephen Wensman**
Street buffer required along public streets- but may be eliminated with Downtown Overlay Zoning Text Amendment

39 **Stephen Wensman**
LDO Section 6.2.4.4.G Parking Perimeter Plantings Required

40 **Stephen Wensman**
LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

41 **Stephen Wensman**
LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

42 **Stephen Wensman**
LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

43 **Stephen Wensman**
LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

44 **Stephen Wensman**
LDO Section 6.2.4.4.G Parking Perimeter Plantings Required

45 **Stephen Wensman**
LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

46 **Stephen Wensman**
General Note: show parking lot lights on the landscape plan to ensure both plans are coordinated.

47 **Stephen Wensman**
LDO Section 6.2.4.4.G Parking Perimeter Plantings Required

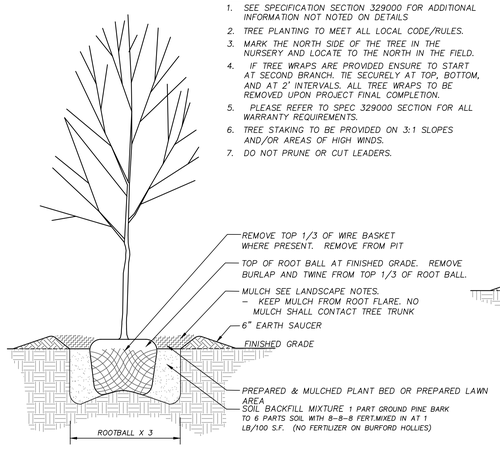
48 **Stephen Wensman**
LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

49 **Stephen Wensman**
LDO Section 6.2.2.4.4. D: Terminal islands shall be landscaped with shrubs, accent plants, ornamental grasses, and ground cover, excluding sod, which is planted to provide one hundred (100) percent coverage within two (2) years.

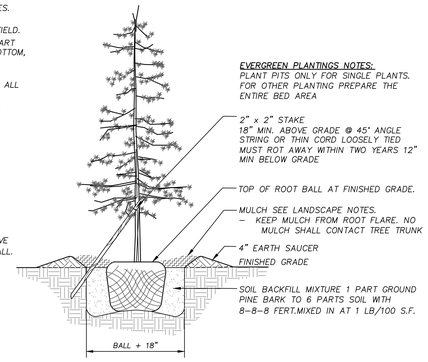
50 **Stephen Wensman**
Provide buffer planting calculations

TREE PLANTING NOTES:

1. SEE SPECIFICATION SECTION 329000 FOR ADDITIONAL INFORMATION NOT NOTED ON DETAILS
2. TREE PLANTING TO MEET ALL LOCAL CODE/RULES.
3. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
4. IF TREE WRAPS ARE PROVIDED ENSURE TO START AT SECOND BRANCH. TIE SECURELY AT TOP, BOTTOM, AND AT 2' INTERVALS. ALL TREE WRAPS TO BE REMOVED UPON PROJECT FINAL COMPLETION.
5. PLEASE REFER TO SPEC 329000 SECTION FOR ALL WARRANTY REQUIREMENTS.
6. TREE STAKING TO BE PROVIDED ON 3:1 SLOPES AND/OR AREAS OF HIGH WINDS.
7. DO NOT PRUNE OR CUT LEADERS.

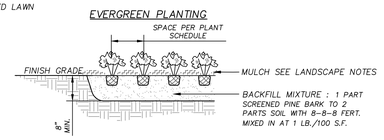


TREE PLANTING

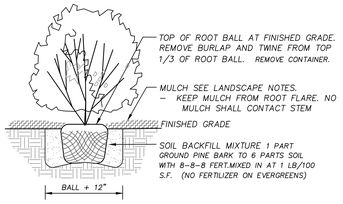


EVERGREEN PLANTINGS NOTES:
PLANT PITS ONLY FOR SINGLE PLANTS. FOR OTHER PLANTING PREPARE THE ENTIRE BED AREA

EVERGREEN PLANTING

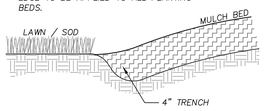


GROUNDCOVER PLANTING



SHRUB PLANTING

MULCH NOTES:
EDGE TO BE APPLIED TO ALL PLANTING BEDS.

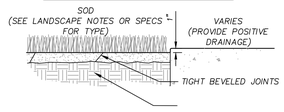


PLANTING BED EDGE

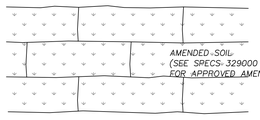
SOD MAINTENANCE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SOD MAINTENANCE UNTIL FINAL COMPLETION.
2. PLEASE REFER TO SPEC 329000 FOR ALL SOD INSTALLATION REQUIREMENT, WARRANTEES AND MAINTENANCE TILL FINAL COMPLETION
3. CONTRACTOR MUST MEET 95% SOD ESTABLISHMENT FOR FINAL COMPLETION. REFER TO SPEC 329000 SECTION 1.9. & 1.12 FOR ALL APPLICABLE REQUIREMENTS.
4. SOD INSTALLED INSTALLED OUTSIDE GROWING SEASON WILL NEED TO MEET THE FOLLOWING SECTION 329000 SECTIONS 1.9 & 1.12
5. PLEASE REFER TO SPEC 329000 SECTION 1.10 FOR ALL WARRANTY REQUIREMENTS.
6. CONTRACTOR IS RESPONSIBLE FOR REGULAR MOWING AND FOR FURNISHING AND APPLYING ADEQUATE WATER TO THE INSTALLED SOD UNTIL PROJECT FINAL COMPLETION BUT NO LESS THAN 4–WEEKS FOLLOWING SOD INSTALLATION
7. WATERING SHALL BE MONITORED TO ENSURE PROPER RATES ARE APPLIED. OVER–WATERING SHALL BE AVOIDED.
8. DEAD OR DYING SOD SHALL BE REPLACED PRIOR TO OWNER'S ACCEPTANCE.

REMOVE NETTING PRIOR TO INSTALLATION



SECTION

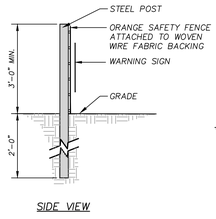


PLAN

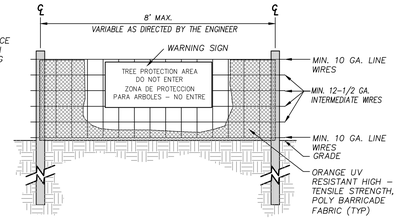
SOD INSTALLATION

PLANTING / LANDSCAPING DETAIL

N.T.S.

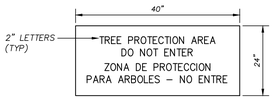


SIDE VIEW



FRONT VIEW

NOTES:
1. INSTALL TREE PROTECTION FENCING PRIOR TO PERFORMING ANY CLEARING OF THE SITE.
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
3. LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
4. SIGNS SHALL BE PLACED AT 100' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 100' ON CENTER THEREAFTER.
5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.



WARNING SIGN DETAIL

TEMPORARY TREE PROTECTION FENCE

N.T.S.

TEMPORARY SEEDING SCHEDULE (JUNE 1ST TO FEBRUARY 28TH)

DATE	TYPE	SEEDING RATE
AUG 15 – APR 15	3–WAY TALL FESCUE BLEND AND CEREAL RYE (GRAIN)	10 LBS PER 1,000/SF 35 LBS/ACRE
APR 15 – AUG 15	3–WAY TALL FESCUE BLEND AND GERMAN MILLET *** OR SUDANGRASS (SMALL–STEMMED VAR.) ***	10 LBS PER 1,000/SF 25 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

*** TEMPORARY – RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

PERMANENT SEEDING SCHEDULE

DATE	TYPE	SEEDING RATE
APR 15 – JULY 15 **	HULLED SUNSTAR OR RIVERA BERMUDA	150 LBS/ACRE *
JULY 15 – AUG 15 (WATERING AT CONTRACTOR'S EXPENSE)	SUNSTAR OR RIVERA BERMUDA	150 LBS/ACRE *

* OR AS REQUIRED TO ACHIEVE 95% COVERAGE AS DETERMINED ON A PER SQUARE YARD BASIS PRIOR TO SUBSTANTIAL COMPLETION.

** WHEN SEEDING MUST TAKE PLACE OUT–OF– SEASON FOR PERMANENT GRASS, APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.

PLANTING / LANDSCAPING GENERAL NOTES

1. LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
2. VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
3. ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
4. ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4–1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED.
5. ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. **3–IN OF DYED BROWN DESIGNER (PALLETIZED)** MULCH SHALL BE USED AROUND ALL PLANTINGS WITH THE EXCEPTION OF BUFFER PLANTINGS. BUFFER PLANTINGS MAY USE TRIPLE SHREDDED HARDWOOD. CONFIRM WITH LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO INSTALLATION.
6. APPLY PRE–EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
7. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
8. DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS). SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
9. CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
   - 9.1. REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION.
   - 9.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
   - 9.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
   - 9.4. ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
10. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
11. LANDSCAPE SUB–CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN/SOD AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE–ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL WATERING INFORMATION.
12. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDED/SOD AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE RE–GRADED AND RE–SEEDED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
13. SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
14. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING. IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
15. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
16. GENERAL LAWN AREAS SHALL BE SEEDED WITH **RIVERA OR SUNSTAR BERMUDA SEED. SOD AREAS SHALL BE TIF–TUF BERMUDA.** 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
17. SEE PLANTING PLAN FOR LIMITS.
18. ALL 3:1 SLOPES OR GREATER SHALL RECEIVE EROSION CONTROL MATTING. REFER TO PLANTING PLANS FOR STABILIZATION REQUIREMENTS.
19. ALL FOUNDATION SHRUBS TO BE PLANTED A MINIMUM OF 5–FT FROM BUILDING WALL. ALL SHADE TREES SHALL BE A MINIMUM DISTANCE OF 10–FT FROM BULDING ROOF EDGE TO CENTER OF TREE. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
20. **INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.**

LIME AND FERTILIZATION SCHEDULE:

1. APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 500 LB/ACRE 10–10–10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION.
2. CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

SURFACE STABILIZATION REQUIREMENTS:

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. USE EXCELSIOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
4. APPLY 4000 LB/ACRE(2 TONS LB/AC) GRAIN STRAW OVER SEEDED AREAS AND ANCHOR STRAW CRIMPING WITH HAND OR MECHANICAL CRIMPER 8" MAX. SPACING, ASPHALT TACKING OR OTHER APPROVED METHOD. ASPHALT TACKING SHALL BE 400 GAL/ACRE (9 GAL/1000 SF).
5. MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.
6. SEE NCDEQ GROUND STABILIZATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

LAWN MAINTENANCE NOTES:

1. SEE SPEC. SECTION 329000 FOR LAWN MAINTENANCE REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE UNTIL FINAL COMPLETION.
3. LAWN MUST BE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW TO BE ACCEPTED.
4. IF NOT AT 95% SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE FOLLOWING GROWING SEASON.
5. DO NOT ALLOW NURSE CROP TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE THE PERMANENT SEEDING MAY BE SHADED OUT.

TURF, SOD AND SEEDBED PREPARATION:

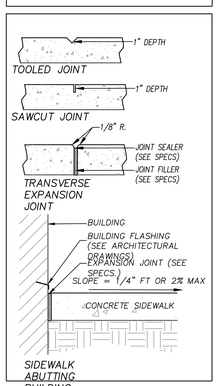
1. CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
2. DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON–SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL–SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATION SECTION 329000.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL–PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
6. SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSED AREAS TO BECOME EXCESSIVELY DRY.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
9. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.

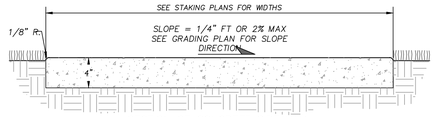
PLANTING / LANDSCAPING DETAIL

N.T.S.

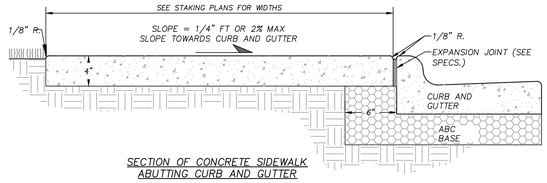
GENERAL NOTES:

1. PROVIDE GROOVE CONTROL JOINT 1–IN DEEP WITH 1/8–IN RADII IN EDGING AT 10' INTERVALS UNLESS INDICATED OTHERWISE.
2. PROVIDE 1/2–IN WIDE EXPANSION JOINT AT 50' INTERVALS AND WHERE EDGING ABUTS ANY RIGID PAVEMENT AND/OR STRUCTURE.
3. ALL CONCRETE SHALL BE 4,000 P.S.I.
4. SURFACE SHALL RECEIVE FINE BROOM FINISH.

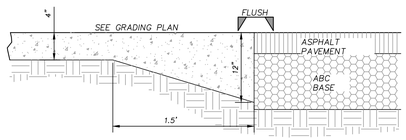




SECTION OF CONCRETE SIDEWALK



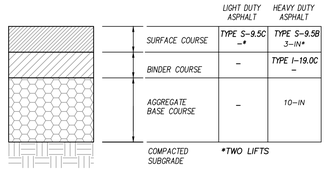
SECTION OF CONCRETE SIDEWALK ABUTTING CURB AND GUTTER



SECTION OF SIDEWALK ABUTTING PAVEMENT FLUSH

CONCRETE SIDEWALK

N.T.S.



SEE SPECIFICATIONS FOR PROOFROLLING, COMPACTION & TESTING REQUIREMENTS.

DETAIL IS FOR ON–SITE PAVING OPERATIONS ONLY.

THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.

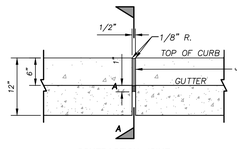
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

PAVEMENT SECTIONS

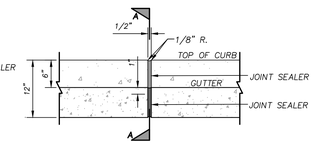
N.T.S.

CURB AND GUTTER NOTES:

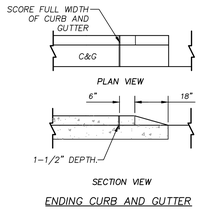
1. ALL CONCRETE SHALL BE 4,000 P.S.I. @ 28 DAYS
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, SPACING MAY BE INCREASED TO 15' IF MACHINE IS USED.
3. CONTRACTION JOINTS SHALL BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1–1/2" SHALL BE OBTAINED.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' MAX INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
5. ALL JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER.
6. SEE SPECIFICATION SECTION 32 13 13 FOR ADDITIONAL INFORMATION



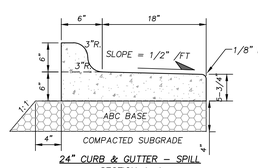
CONTRACTION JOINT



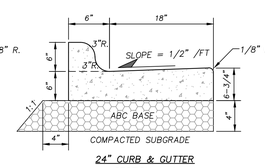
TRANSVERSE EXPANSION JOINT



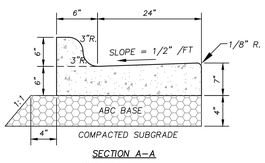
ENDING CURB AND GUTTER



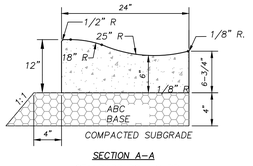
24" CURB & GUTTER – SPILL SECTION A–A



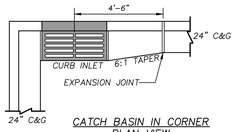
24" CURB & GUTTER SECTION A–A



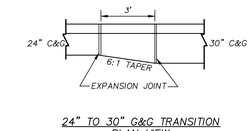
SECTION A–A
30" CURB & GUTTER



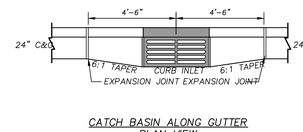
SECTION A–A
STANDARD ROLL CURB



CATCH BASIN IN CORNER PLAN VIEW



24" TO 30" C&G TRANSITION PLAN VIEW



CATCH BASIN ALONG GUTTER PLAN VIEW

CURB AND GUTTER

N.T.S.

adw architects
environments for life
architecture planning interiors
2815 coliseum centre drive
suite 500
charlotte, nc 28217
704.379.1919
adwarchitects.com

Rolesville
Genuine Community • Capital Connection
Est. 1837

ROLESVILLE FIRE SERVICE DEPT DEDICATION PRIDE

CLH DESIGN
CLH design, p.a.
400 Regency Forest Drive
Suite 120
Cary, NC 27518
Phone: 919.319.6716
LA: C–106, PE: C–1595

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

SITE DETAILS

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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SHEET NUMBER:
C-8.01

1600 SERIES

MBR-1600-00008

Legacy # SCBR1600-S

Sustainability Facts

Unit Size	One (1) MBR-1600-00008 Bike Rack
Carbon footprint (GWP) *Measured in kilograms of carbon dioxide equivalent*	160 kg CO2-Eq
Total energy use (TPE) *Measured in megajoules of energy equivalent*	3130 MJ-Eq
Master use (WDP) *Measured in cubic metres of water*	2.28 m3 water
Material recyclability	100%
LEED v4.1 Credits	
Type III Environmental Product Declaration	
Material Inventory	
Low VOC Finishes	
Free of Red List substances	

**Full EPD can be referenced for more information https://www.epdhub.com/maglin*

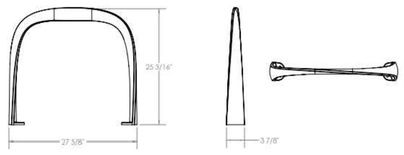
DESCRIPTION: 1600 Series - SC Bike Rack: Cast Aluminum, Surface Mount, 2 Bike Configuration

FINISH: The Maglin Powdercoat System provides a durable finish on all metal surfaces.

INSTALLATION: The bike rack is delivered pre-assembled. It is available with either a surface mount or direct burial installation option.

TO SPECIFY: Select MBR-1600-00008
Choose:
- Powdercoat Color

HEIGHT: 25.19" (63.98cm) LENGTH: 27.62" (70.17cm) WIDTH: 3.375" (8.375cm) WEIGHT: 18.3lbs (8.3kg)



MAGLIN Site Furniture

T 800 796 9506
F 877 280 6553
sales@maglin.com
sales@maglin.com

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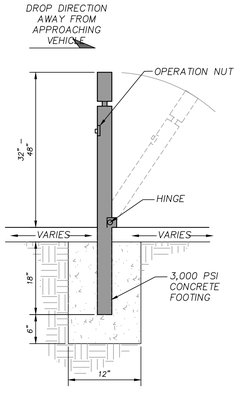


COLLAPSIBLE BOLLARD SPECIFICATION:

COLLAPSIBLE BOLLARD SHALL BE CONSTRUCTED OF COLD ROLLED STEEL WITH STAINLESS STEEL CRITICAL PARTS OF INTERNAL MECHANISM.

BOLLARD SHALL REQUIRE A MAXIMUM GROUND CLEARANCE OF 4" WHEN COLLAPSED.

BOLLARD SHALL BE OPERATED BY APPLYING TORQUE TO A HYDRANT-TYPE NUT WHICH LIFTS A SPRING LOADED LOCKING PIN ALLOWING THE BOLLARD TO COLLAPSE AT ITS HINGE. THE SPRING LOADED PIN SHALL AUTOMATICALLY RESEAT AND LOCK WHEN THE BOLLARD IS REPLACED IN THE UPRIGHT POSITION (WITH NO WRENCH NEEDED).

PRODUCT: MAXIFORCE BOLLARD STYLE MCSW-SS1-S, COLOR IN TIGER DRYLAC "BENGAL BLUE" OR "ROYAL BLUE"
- SUBMIT COLOR SAMPLES TO ARCHITECT TO MOST CLOSELY MATCH FAYETTEVILLE STATE UNIVERSITY RAL COLOR, WITH A CLEAR TOP COAT, OR APPROVED EQUAL. HEIGHT:32", BOLLARD WEIGHT 58 LBS. INSTALLATION PER MANUFACTURER.

BOLLARD SHALL BE FINISHED WITH A RUST INHIBITOR PRIME COAT AND AN EXTERIOR ENAMEL FINISH COAT.

COLLAPSIBLE BOLLARD N.T.S.

ACCESSIBLE RAMP NOTES

RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)

THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.

NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1':FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET. SEE GRADING FOR ADDITIONAL INFORMATION.

NO RAMPS OR SIDEWALK SHALL BE LESS THAN 48" WIDE. REFER TO STAKING SHEETS FOR ALL SIDEWALK AND RAMP WIDTHS.

ALL CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

EXPANSION JOINTS SHALL BE INSTALLED FULL DEPTH WHEN EVER IT ABUTS EXISTING OR CURB AND GUTTER

CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO STREET.

NO RAMP SHALL EXCEED 8.33% (12:1) SLOPE.

CROSS SLOPE SHALL BE MAX 2%

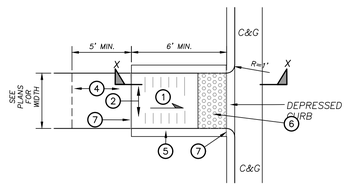
ALL RAMPS SHALL HAVE A 4' MIN. LANDING WITH A MAX SLOPE OF 2% WERE PEDESTRIANS PERFORM TURNING. ENSURE TO PITCH TOWARDS GUTTER.

DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

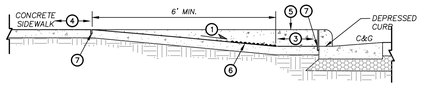
SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL INFORMATION.

DOMES SUBMITTAL SHALL BE SUBMITTED TO DESIGN TEAM PRIOR TO INSTALLATION. COLOR SHALL BE YELLOW UNLESS OTHERWISE NOTED.

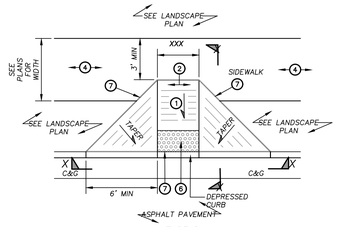
1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2%
3. 2% MAX IN ALL DIRECTIONS
4. 2% LANDING
5. 6" WIDE X 12" DEEP CURB (MONOLITH POUR IS ACCEPTABLE)
6. DETECTABLE WARNING DOME (SEE DETAIL)
7. 1/2" EXPANSION JOINT



TYPE A



SECTION VIEW



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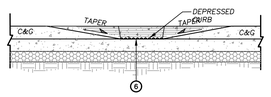


SECTION VIEW

ACCESSIBLE CURB RAMP N.T.S.

ACCESSIBLE PARKING NOTES:

RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)

THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.

NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1':FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET. SEE GRADING FOR ADDITIONAL INFORMATION.

NO RAMPS OR SIDEWALK SHALL BE LESS THAN 48" WIDE. REFER TO STAKING SHEETS FOR ALL SIDEWALK AND RAMP WIDTHS.

ALL CONCRETE SHALL BE 4,000 PSI @ 28 DAYS. SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL INFO.

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

EXPANSION JOINTS SHALL BE INSTALLED FULL DEPTH WHEN EVER IT ABUTS EXISTING OR CURB AND GUTTER

CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO STREET.

ALL RAMPS SHALL HAVE A 4' MIN. LANDING WITH A MAX SLOPE OF 2% WERE PEDESTRIANS PERFORM TURNING. ENSURE TO PITCH TOWARDS GUTTER.

DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

ALL DIMENSIONS ARE FROM FACE OF CURB

ACCESSIBLE STALL WIDTH AND LENGTH AS SHOWN. NO ACCESSIBLE STALL SHALL BE LESS THAT 8' WIDE.
ALL VAN ACCESSIBLE PARKING STALLS ARE AS SHOWN. NO ACCESSIBLE VAN STALL SHALL BE LESS THAT 8' WIDE WITH AISLE BEING NOT LESS THAN 8' WIDE
CONTRACTOR IS RESPONSIBLE FOR MARKING OUT ACCESSIBLE STALL TO ENSURE THEY MEET CODE. ANY DEFICIENCIES SHALL BE REPAIR AT THE CONTRACTORS EXPENSE.
NO RAMP SHALL EXCEED 8.33% (12:1) SLOPE.

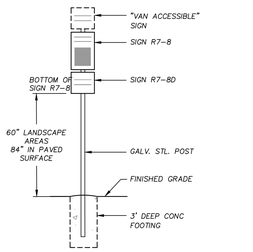
CROSS SLOPE SHALL BE MAX 2%

PARKING STALL AND ACCESSIBLE AISLE SHALL BE WHITE ON ASPHALT SURFACES AND BLUE ON CONCRETE SURFACES.

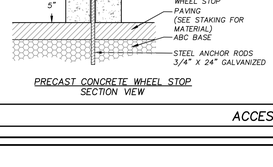
1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2%
3. 2% MAX IN ALL DIRECTIONS
4. 2% LANDING
5. 6" WIDE X 12" DEEP CURB (MONOLITH POUR IS ACCEPTABLE)
6. DETECTABLE WARNING DOME (SEE DETAIL)
7. 1/2" EXPANSION JOINT

NOTE: MAXIMUM PENALTY ($250) IS ESTABLISHED BY LEGISLATURE VIA GENERAL STATUTE 20-37.6

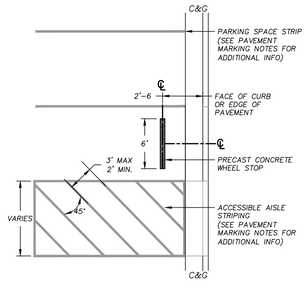
ALL SIGNS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SPECIFICATIONS AND REQUIREMENTS



ACCESSIBLE PARKING SIGNAGE



PRECAST CONCRETE WHEEL STOP
SECTION VIEW



ACCESSIBLE STALL STRIPING AND
90° PARKING SPACE PLAN VIEW

ACCESSIBLE PARKING N.T.S.

GENERAL NOTES:

A GROOVE JOINT 1" DEEP WITH 1/8" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS UNLESS INDICATED OTHERWISE. SEE SPECS FOR ADDITIONAL JOINT SPACING REQUIREMENTS.

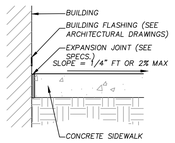
ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS.

A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

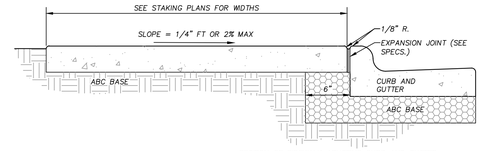
CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.

FINISH SHALL BE BROOM.

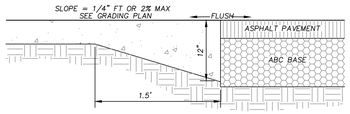
SIDEWALK THAT ABUTS BUILDINGS SHALL BE SET BELOW FLASHING AND BUILDING WEEPS. COORDINATED ELEVATIONS WITH CIVIL AND ARCHITECTURAL PLANS. NOTIFY DESIGN TEAM IN LOCATIONS WERE THIS OCCURS.



AREAS WHERE SIDEWALK ABUTS BUILDING



SECTION OF SIDEWALK ABUTTING CURB AND GUTTER



SECTION OF SIDEWALK ABUTTING PAVEMENT FLUSH

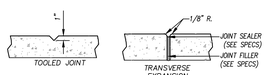
GENERAL NOTES:

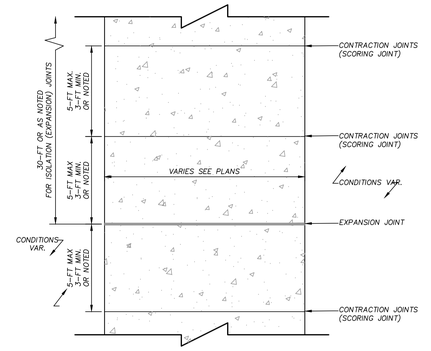
SEE SPEC SECTION 32 13 13 FOR ADDITIONAL CONCRETE INFORMATION.

FOR CONCRETE SIDEWALKS CONTRACTION JOINTS (SCORING JOINTS) IN PATIOS, 5-FT MAX UNLESS OTHERWISE NOTED ON PLANS.

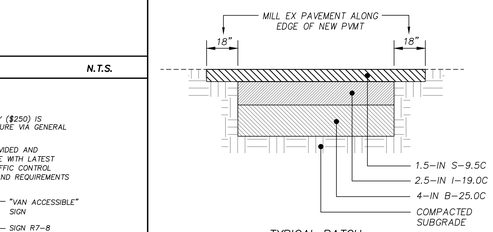
ALL CONCRETE SIDEWALKS WITH WIDTHS OF 8-FT OR LESS SIDEWALKS SHALL BE 5-FT MAX 3-FT MIN SPACED CONTRACTION JOINTS (SCORING JOINTS).

ISOLATION JOINTS (EXPANSION JOINTS) SHALL BE SET EVERY 30-FT INTERVALS OR AS NOTED ON THE PLANS.

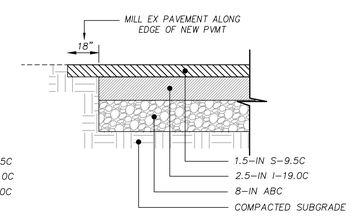




CONCRETE SIDEWALK N.T.S.



TYPICAL PATCH

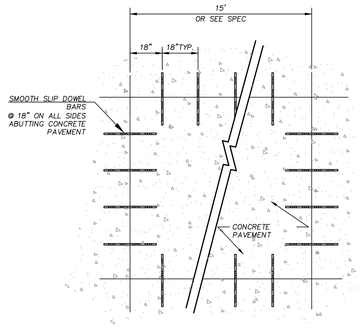


TYPICAL PAVEMENT SECTION

NOTES:

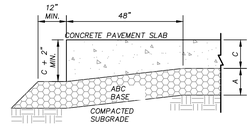
1. ASPHALT PATCH SECTION SHALL BE INSTALLED WHERE PAVEMENT WIDTH IS LESS THAN 6-FT.
2. SEE EARTH MOVING AND ASPHALT PAVEMENT SPECIFICATIONS FOR PROOF-ROLLING, COMPACTION & TESTING REQUIREMENTS.
3. THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

ASPHALT PATCH N.T.S.



PLAN VIEW
NTS

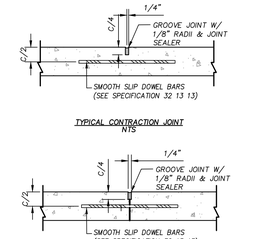
CONCRETE PAVEMENT DIMENSIONS	
CONC SLAB THICKNESS, C	8-IN
ABC THICKNESS, A	8-IN
DOWEL DIAMETER	SEE SPECS



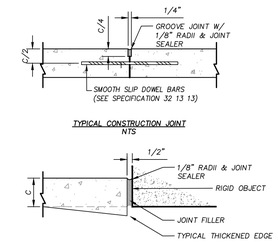
TYPICAL THICKENED EDGE
NTS

NOTES:

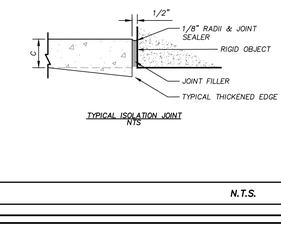
1. ALL CONCRETE SHALL BE OF NCDOT TYPE AA PORTLAND CEMENT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI (ASTM C39).
2. CONTRACTION JOINTS SHALL BE PLACED PER SPECIFICATION 32 13 13.
3. ISOLATION JOINTS SHALL BE PLACED WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
4. JOINTS IN CURB & GUTTER SHALL BE ALIGNED WITH JOINTS IN ADJOINING CONCRETE PAVEMENT.
4. JOINTING PLAN DEVELOPED BY CONTRACTOR IN ACCORDANCE WITH ACI-330R-08 SHALL BE APPROVED BY SITE DESIGN ENGINEER PRIOR TO POURING SLAB.



TYPICAL CONTRACTION JOINT
NTS



TYPICAL CONSTRUCTION JOINT
NTS



TYPICAL ISOLATION JOINT
NTS

HEAVY DUTY CONCRETE PAVEMENT (FIRE STATIONS) N.T.S.

adw architects
environments for life
architecture planning interiors
2815 coliseum centre drive
suite 500
charlotte, nc 28217
704.379.1919
adwarchitects.com

Rolesville
Genuine Community • Capital Connection
Est. 1837

ROLESVILLE FIRE DEPT SERVICE DEDICATION PRIDE

CLH DESIGN
CLH design, p.a.
400 Regency Forest Drive
Suite 120
Cary, NC 27518
Phone: 919.319.6716
LA: C-106, PE: C-1595

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

SITE DETAILS

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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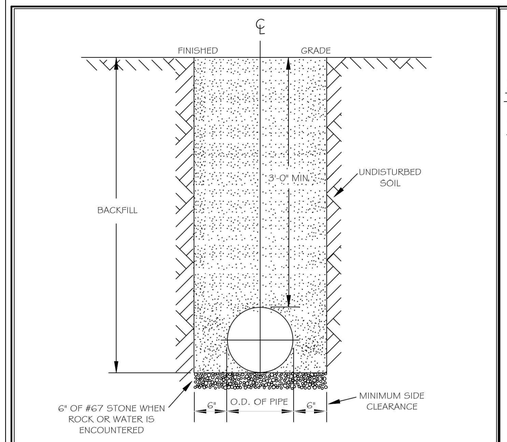
SHEET NUMBER:
C-8.02

CITY OF RALEIGH - STANDARD UTILITY NOTES

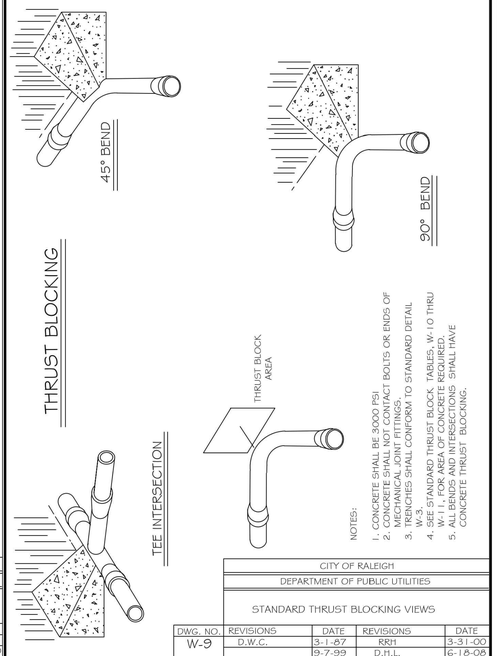
1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   - 2.1. A) A DISTANCE OF 100'SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25'FROM A PRIVATE WELL OR 50'FROM A PUBLIC WELL.
   - 2.2. B) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18"ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
   - 2.3. C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10'ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
   - 2.4. D) 5.0'MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER
   - 2.5. E) MAINTAIN 18"MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18"MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORMDRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6"MIN. CLEARANCE (PER CORPUD DETAILS W– 41 & S–49).
   - 2.6. F) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18"MIN. VERTICAL SEPARATION REQUIRED.
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
5. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24–HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
6. SEWER BYPASS PUMPING – A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.
7. 3.0'MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0'MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
8. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
9. INSTALL WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
10. INSPECTIONS OF 4"AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE PERMIT.
11. PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR SEWER.
12. ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A PLUMBING UTILITY PERMIT IN THE CITY OF RALEIGH. CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE–CONSTRUCTION MEETING ON THE NECESSARY PERMITS.
13. INSTALL SEWER SERVICES WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED PER THE CURRENT NC PLUMBING CODE.
14. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0'ABOVE THE NEXT UPSTREAM MANHOLE.
15. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
16. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
17. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 996–4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
18. CROSS–CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.
19. THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
20. THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A – GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
21. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
22. NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN $250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.
23. PRIVATE SUB–METERING – NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION. SUB–METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE "SAFE DRINKING WATER ACT".



NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS.
5. ACHIEVE 95% COMPACTION IN BACKFILL.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-3	D.W.C.	9-3-99	ABB	2-15-05
	RR1	3-31-00	J.P.S.	10-29-10



NOTES:
1. CONCRETE SHALL BE 3000 PSI.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
3. THRUSTS SHALL CONFORM TO STANDARD DETAIL W-3.
4. SEE STANDARD THRUST BLOCK TABLES, W-10 THRU W-11, FOR AREA OF CONCRETE REQUIRED.
5. ALL BEARING SURFACES SHALL HAVE CONCRETE THRUST BLOCKING.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD THRUST BLOCKING VIEWS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-9	D.W.C.	3-1-57	RR1	3-31-00
		9-7-99	D.H.L.	6-18-08

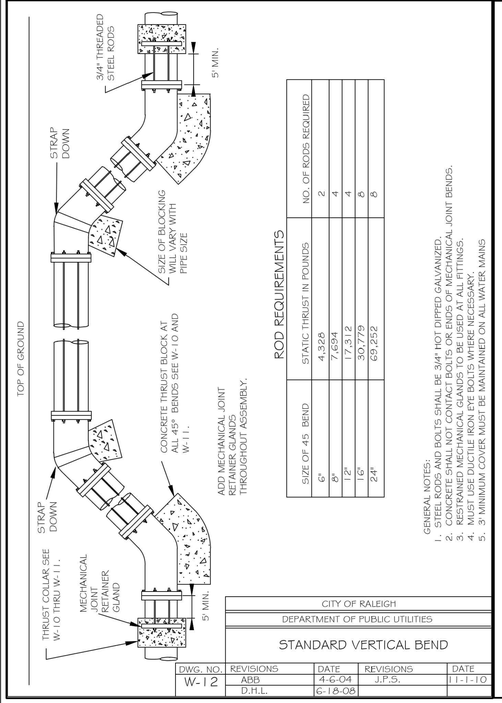
REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS BASED ON TEST PRESSURE OF 200 PSI
ALL AREAS GIVEN IN SQUARE FEET

SIZE OF BEND	DEGREE OF BEND	STATIC THRUST IN POUNDS	MODERATELY DRY CLAY 4,000 LBS/FT²	SOFT CLAY 2,000 LBS/FT²	1,600 LBS/FT² GRAVEL/ COARSE SAND	8,000 LBS/FT² DRY CLAY (ALWAYS DRY)	SAND, COMPACT FIRM 8,000 LBS/FT²	SAND– CLEAN DRY 4,000 LBS/FT²	SOIL 1,000 LBS/FT² QUICKSAND (VERY POOR)	ROCK– POOR 10,000 LBS/FT²
6"	11 ¼°	1,108	1	1	1	1	1	1	2	1
	22 ½°	2,207	1	2	2	1	1	1	3	1
	45°	4,328	2	3	3	1	1	2	5	1
	90°	7,996	2	4	5	1	1	2	8	1
	PLUG	5,655	2	3	4	1	1	2	6	1
8"	11 ¼°	1,970	1	1	2	1	1	1	2	1
	22 ½°	3,922	1	2	3	1	1	1	4	1
	45°	7,694	2	4	5	1	1	2	8	1
	90°	14,215	4	8	9	2	2	4	15	2
	PLUG	10,053	3	5	6	2	2	3	10	1
12"	11 ¼°	4,433	2	3	3	1	1	2	5	1
	22 ½°	8,826	3	5	6	2	2	3	9	1
	45°	17,312	5	9	11	3	3	5	18	2
	90°	31,983	8	16	19	4	4	8	32	4
	PLUG	22,619	6	12	14	3	3	6	23	3
16"	11 ¼°	7,881	2	4	5	1	1	2	8	1
	22 ½°	15,691	4	8	10	2	2	4	16	2
	45°	30,779	8	16	19	4	4	8	31	4
	90°	56,861	15	29	35	8	8	15	57	6
	PLUG	40,213	10	21	25	5	5	10	41	5

NOTES:
1. REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.
2. USE 6" 90° BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	THRUST BLOCKING DESIGN QUANTITY TABLE	
	W-10	



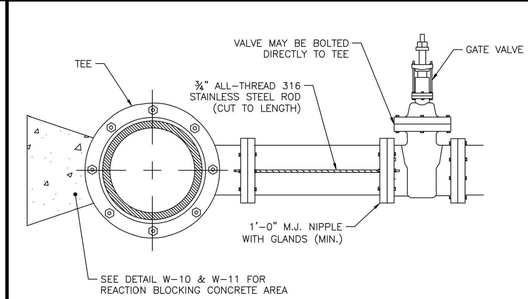
ROD REQUIREMENTS

SIZE OF 45 BEND	STATIC THRUST IN POUNDS	NO. OF RODS REQUIRED
6"	4,328	2
8"	7,694	4
12"	17,312	4
16"	30,779	6
24"	69,252	6

GENERAL NOTES:
1. STEEL RODS AND BOLTS SHALL BE ¾" HOT DIPPED GALVANIZED.
2. CONCRETE SHALL NOT CONTACT BOLTS, OR ENDS OF MECHANICAL JOINT BENDS.
3. RESTRAINED MECHANICAL GLANDS TO BE USED AT ALL FITTINGS.
4. MUST USE DUCTILE IRON EYE BOLTS WHERE NECESSARY.
5. 3' MINIMUM COVER MUST BE MAINTAINED ON ALL WATER MAINS

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD VERTICAL BEND

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-12	ABB	4-6-04	J.P.S.	11-1-10
	D.H.L.	6-18-08		



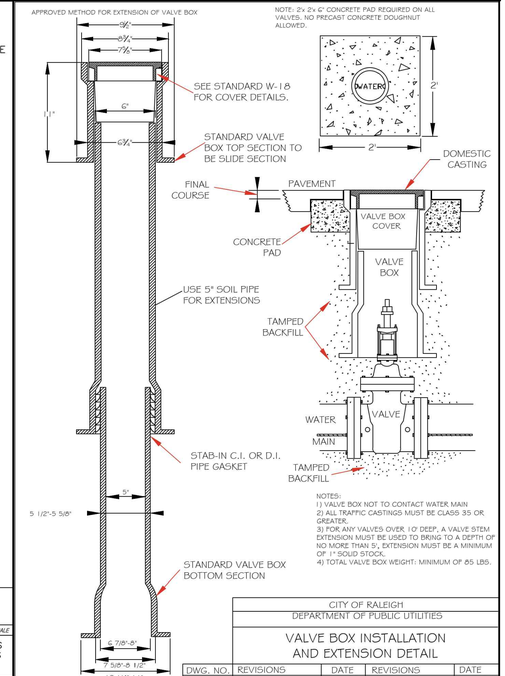
ROD REQUIREMENTS

BRANCH SIZE	NO. OF RODS
4"	2
6"	2
8"	4
12"	4
16"	6
24"	6
30"	8
36"	8

NOTES:
1. STEEL RODS AND BOLTS SHALL BE ¾" 316 STAINLESS STEEL.
2. SEE DETAIL W–10 AND W–11 (THRUST BLOCK TABLES) FOR CONCRETE.
3. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.
4. THIS RODDING REQUIREMENT DOES NOT APPLY TO FIRE HYDRANTS.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	VALVE RESTRAINT AT TEES AND CROSSES FOR LINES (4"–24")	
	W-15	



NOTES:
1) VALVE BOX NOT TO CONTACT WATER MAIN
2) ALL TRAFFIC CASTINGS MUST BE CLASS 35 OR GREATER.
3) FOR ANY VALVES OVER 10' DEEP, A VALVE STEM EXTENSION MUST BE USED TO BRING TO A DEPTH OF NO MORE THAN 5', EXTENSION MUST BE A MINIMUM OF 1" SOLID STOCK.
4) TOTAL VALVE BOX WEIGHT: MINIMUM OF 85 LBS.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
VALVE BOX INSTALLATION AND EXTENSION DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-17	D.W.C.	9-7-99	A.B.B.	4-15-04
	RR1	3-31-00	DHL	8-16-07

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ROLESVILLE FIRE DEPT DEDICATION SERVICE PRIDE

CLH DESIGN
CLH design, p.a.
400 Regency Forest Drive
Suite 120
Cary, NC 27518
Phone: 919.319.6716
LA: C-106, PE: C-1595

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

UTILITY DETAILS

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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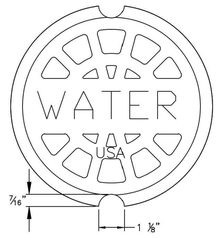
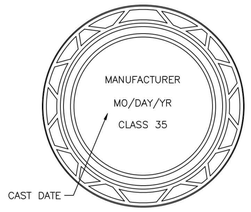
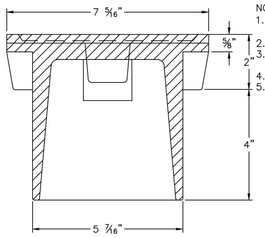
SHEET NUMBER:
C-9.01



PLAN VIEW



BOTTOM VIEW

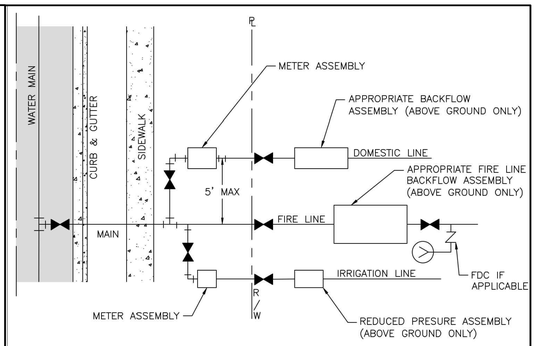


SECTION VIEW

NOTE:
1. "WATER" LETTERING MUST BE 1" RAISED (RECESSED FLUSH).
2. VALVE COVER SHALL BE DOMESTICALLY CAST.
3. COVER MUST HAVE A MINIMUM WEIGHT OF 25 POUNDS.
4. COVER MUST BE CLASS 35 OR GREATER.
5. COVER MUST MEET OR EXCEED AASHTO H-20 LOAD REQUIREMENTS.

CITY OF RALEIGH
STANDARD DETAIL

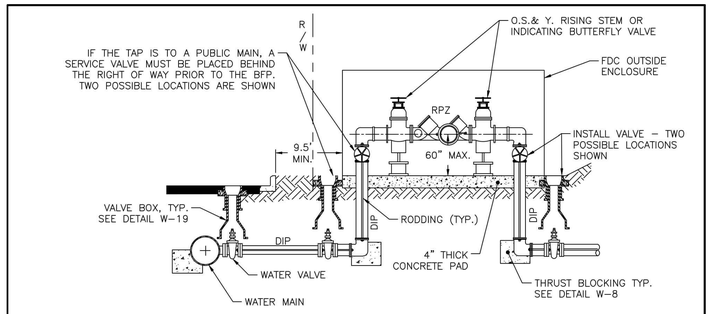
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	5 ¼" VALVE BOX DROP LID WITH 4" SKIRT	
	W-18	



NOTES:
1. SERVICE TAPS FOR 2" AND SMALLER DOMESTIC SERVICES MAY BE BY CORPORATION COCKS. LARGER SERVICES WILL REQUIRE A TEE AND GATE VALVE OR TAPPING SLEEVE AND VALVE ASSEMBLY AND 90° BEND.
2. DOMESTIC SERVICE TAPS SHALL BE ALLOWED ON 4" AND LARGER FIRE LINE BEFORE THE BACKFLOW ASSEMBLY, PROVIDED THAT THE FIRE PROTECTION AND SPRINKLER PLANS AND SITE PLANS ARE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
3. ONE DOMESTIC TAP PER FIRE LINE ON STREET SIDE OF BACKFLOW.
4. FIRE LINE SHALL HAVE A FIRE HYDRANT OR BLOW OFF ASSEMBLY AT ITS END TO FACILITATE FLUSHING WHEN NEEDED.
5. IRRIGATION METER SHALL BE LOCATED ON THE SIDE OF DOMESTIC METER WITH INCREASING ADDRESSES.
6. THE CONTAINMENT BACKFLOW ASSEMBLY SHALL BE INSTALLED WITHIN 50 LINEAR PIPING FEET OF THE METER OR RIGHT-OF-WAY FOR FIRE SERVICE LINES.
7. DOMESTIC/IRRIGATION BACKFLOW RISER/STANDPIPE SHALL BE OF APPROVED MATERIALS AS LISTED IN NC PLUMBING CODE.
8. THE RP RELIEF VALVE SHALL BE A MINIMUM OF 12" ABOVE ANY MATERIAL (MULCH INCLUDED) OR GRADE.
9. A SERVICE VALVE IS REQUIRED AFTER THE METER BUT BEFORE THE BACKFLOW ASSEMBLY FOR MAINTENANCE AND REPLACEMENT PURPOSES.
10. THE INSTALLATION MUST ALSO MEET ALL CODE REQUIREMENTS PER THE NC PLUMBING CODE.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	FIRE, DOMESTIC & IRRIGATION OPTIONS SCHEMATIC	
	W-34	



NOTES:
1. ENCLOSURE MUST BE ASSE 1060 APPROVED AND HAVE ADEQUATE DRAINAGE.
2. CONTAINMENT RPZ/RPDA BACKFLOW ASSEMBLIES ARE TO BE INSTALLED WITHIN 50 LINEAR PIPING FEET OF THE METER OR RIGHT-OF-WAY FOR FIRE SERVICE LINES AND MEET INSTALLATION REQUIREMENTS AS LISTED IN APPENDIX A: GUIDELINES AND REQUIREMENTS OF THE CROSS CONNECTION AND HYDRANT METER PROGRAM.
3. NO VALVE IN THE EXISTING SYSTEM SHALL BE OPERATED WITHOUT FOLLOWING THE PROCEDURE OUTLINED IN THE RALEIGH WATER PUBLIC UTILITY DESIGN MANUAL. THE CONTRACTOR SHALL NOTIFY RALEIGH WATER'S DISTRIBUTION DIVISION AT 919-996-3245 TO REQUEST THE OPERATION OF ANY VALVE.
4. RESIDENTIAL LAWN IRRIGATION R.P. ASSEMBLIES THAT ARE REMOVED TO PREVENT FREEZING IN THE WINTER MONTHS MUST BE CAPPED OFF. ALL ABOVE GROUND ASSEMBLIES, EXCEPT RESIDENTIAL LAWN IRRIGATION ASSEMBLIES, MUST BE PROTECTED FROM FROST.
5. ALL CONTAINMENT BACKFLOW ASSEMBLIES MUST BE ASSE AND USC APPROVED.
6. STEEL RODS AND BOLTS SHALL BE ¾" 316 STAINLESS STEEL.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	REDUCED PRESSURE ZONE AND REDUCED PRESSURE DETECTOR ASSEMBLY	
	W-36	

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PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

UTILITY DETAILS

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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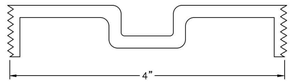
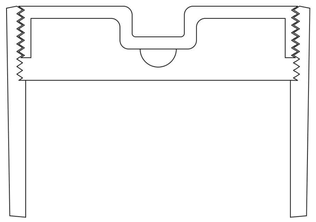
SHEET NUMBER:
C-9.02

V1_SDP_2026-06-22 Rolesville Fire Station 1.pdf · Page 11



STANDARD 4" BRONZE CLEANOUT PLUG



CLEANOUT FERRULE WITH PLUG

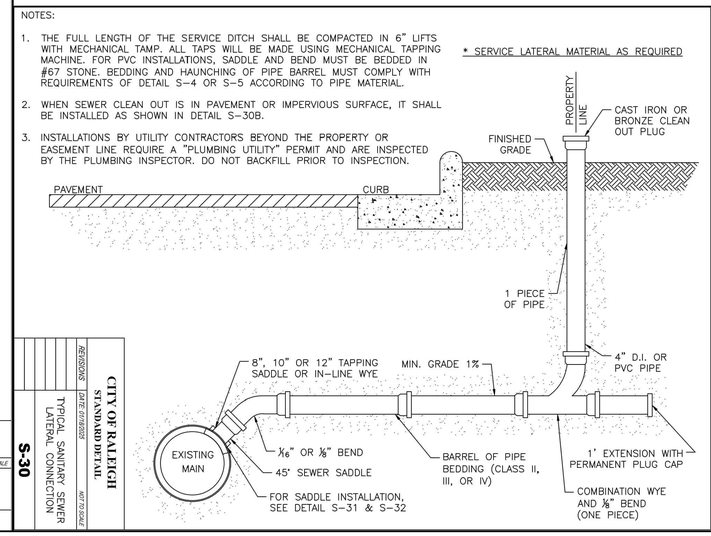
STYLES ACCEPTED:
INVERTED NUT
RAISED NUT

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	4" CLEANOUT PLUG	
	S-34	

NOTES:

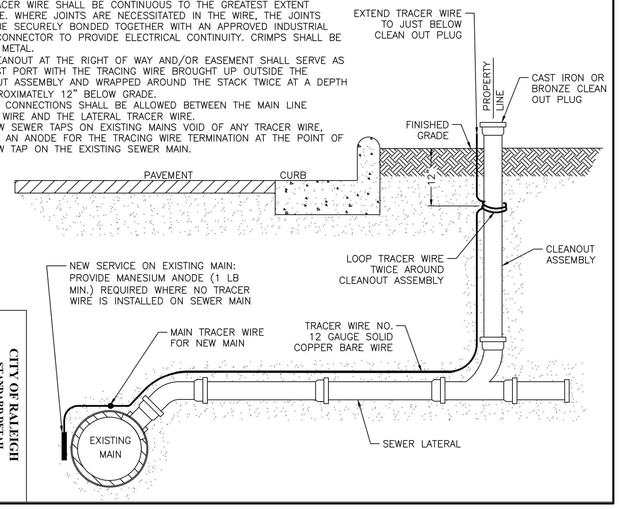
1. THE FULL LENGTH OF THE SERVICE DITCH SHALL BE COMPACTED IN 6" LIFTS WITH MECHANICAL TAMP. ALL TAPS WILL BE MADE USING MECHANICAL TAPPING MACHINE. FOR PVC INSTALLATIONS, SADDLE AND BEND MUST BE BEDDED IN #67 STONE. BEDDING AND HAUNCHING OF PIPE BARREL MUST COMPLY WITH REQUIREMENTS OF DETAIL S-4 OR S-5 ACCORDING TO PIPE MATERIAL.
2. WHEN SEWER CLEAN OUT IS IN PAVEMENT OR IMPERVIOUS SURFACE, IT SHALL BE INSTALLED AS SHOWN IN DETAIL S-30B.
3. INSTALLATIONS BY UTILITY CONTRACTORS BEYOND THE PROPERTY OR EASEMENT LINE REQUIRE A "PLUMBING UTILITY" PERMIT AND ARE INSPECTED BY THE PLUMBING INSPECTOR. DO NOT BACKFILL PRIOR TO INSPECTION.



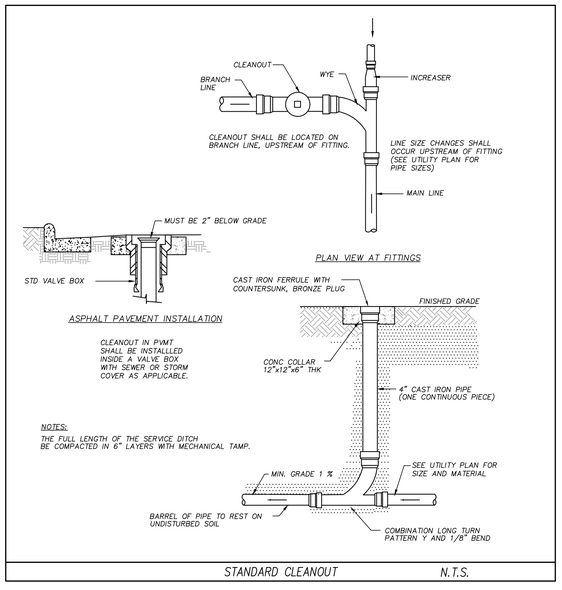
S-30 TYPICAL SANITARY SEWER LATERAL CONNECTION — CITY OF RALEIGH STANDARD DETAIL — REVISIONS — DATE: 01/18/2025 — NOT TO SCALE

NOTES:

1. THE TRACER WIRE SHALL BE CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. WHERE JOINTS ARE NECESSITATED IN THE WIRE, THE JOINTS SHALL BE SECURELY BONDED TOGETHER WITH AN APPROVED INDUSTRIAL CRIMP CONNECTOR TO PROVIDE ELECTRICAL CONTINUITY. CRIMPS SHALL BE SIMILAR METAL.
2. THE CLEANOUT AT THE RIGHT OF WAY AND/OR EASEMENT SHALL SERVE AS THE TEST PORT WITH THE TRACING WIRE BROUGHT UP OUTSIDE THE CLEANOUT ASSEMBLY AND WRAPPED AROUND THE STACK TWICE AT A DEPTH OF APPROXIMATELY 12" BELOW GRADE.
3. SPLICED CONNECTIONS SHALL BE ALLOWED BETWEEN THE MAIN LINE TRACER WIRE AND THE LATERAL TRACER WIRE.
4. FOR NEW SEWER TAPS ON EXISTING MAINS VOID OF ANY TRACER WIRE, PROVIDE AN ANODE FOR THE TRACING WIRE TERMINATION AT THE POINT OF THE NEW TAP ON THE EXISTING SEWER MAIN.



S-30A TYPICAL SANITARY SEWER LATERAL TRACER WIRE — CITY OF RALEIGH STANDARD DETAIL — REVISIONS — DATE: 01/18/2025 — NOT TO SCALE



STANDARD CLEANOUT N.T.S.

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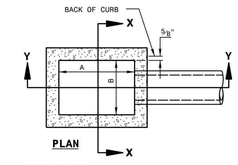
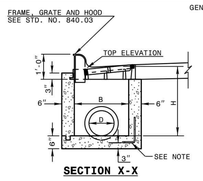
SHEET NUMBER:
C-9.03





GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR. 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.

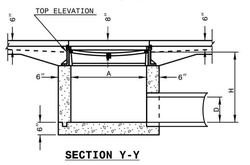
FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.

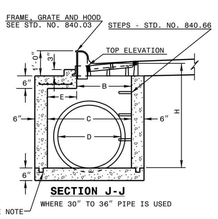
MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 16'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

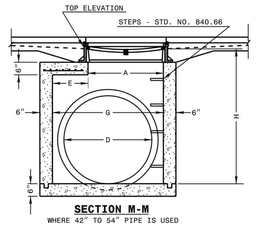
CONSTRUCT WITH PIPE CROWNS MATCHING.

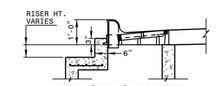
CHAMFER ALL EXPOSED CORNERS 1".

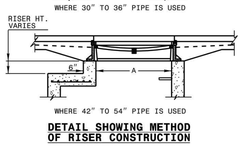
DRAWING NOT TO SCALE.

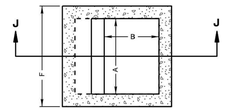


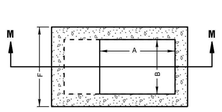










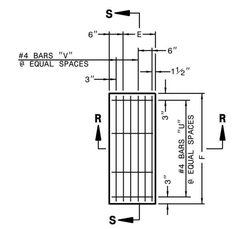


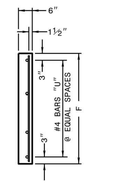
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

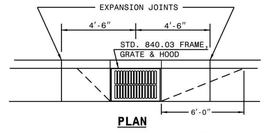
1-24

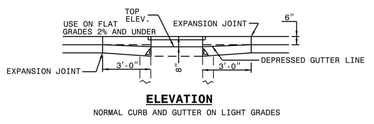
ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
12" THRU 54" PIPE

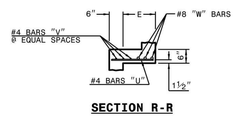
SHEET 1 OF 2
840.02

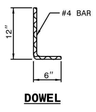


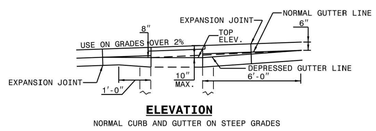












MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN(BASED ON MIN. HEIGHT, H, WITH NO RISER) *

DIMENSIONS OF BOX AND PIPE							COVER DIMENSION		BARS-U		BARS-V		BARS-W		TOTAL LBS.	CU.YDS. CONC. IN BOX		DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT				NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		TOP SLAB	BOTTOM SLAB (TOT. CONC FOR MINIMUM HEIGHT, H	C.M.	R.C.
D	A	B	C	G	H		E	F											
12"	3'-0"	2'-2"	--	--	3'-0"		--	--	--	--	--	--	--	--	--	--	0.235	0.772	0.015	0.026
15"	3'-0"	2'-2"			3'-0"												0.235	0.829	0.023	0.036
18"	3'-0"	2'-2"			3'-3"												0.235	0.887	0.033	0.049
24"	3'-0"	2'-2"			3'-9"												0.235	1.001	0.059	0.085
30"	3'-0"	2'-2"	3'-4"		4'-3"		1'-2"	4'-0"	4	1'-5"	2	3'-9"	3	3'-9"	39	0.123	0.321	1.433	0.092	0.127
36"	3'-0"	2'-2"	3'-10"		4'-9"		1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	3'-9"	43	0.161	0.358	1.714	0.132	0.178
42"	3'-0"	2'-2"		4'-5"	5'-3"		1'-5"	3'-2"	4	1'-8"	2	2'-11"	3	2'-11"	32	0.112	0.318	1.738	0.180	0.243
48"	3'-0"	2'-2"		5'-0"	5'-9"		2'-0"	3'-2"	4	2'-3"	3	2'-11"	3	2'-11"	35	0.145	0.352	2.052	0.235	0.317
54"	3'-0"	2'-2"		5'-7"	6'-3"		2'-7"	3'-2"	4	2'-10"	5	2'-11"	3	2'-11"	41	0.180	0.386	2.387	0.297	0.401

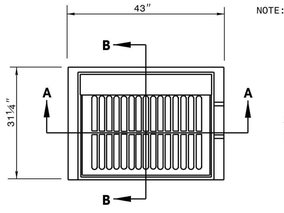
* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

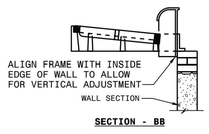
ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
12" THRU 54" PIPE

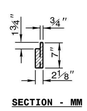
SHEET 2 OF 2
840.02

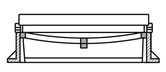


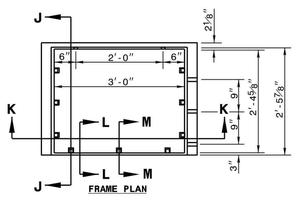
NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.

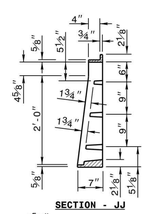
FRAME,GRATE, & HOOD ASS'Y

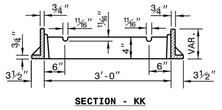


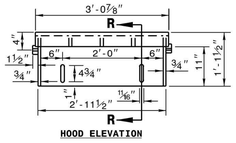


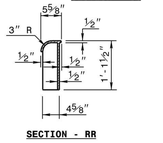












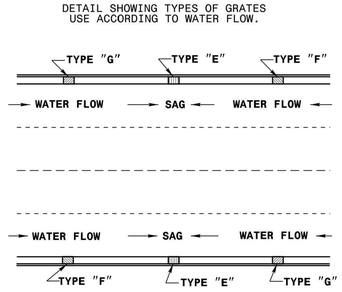
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

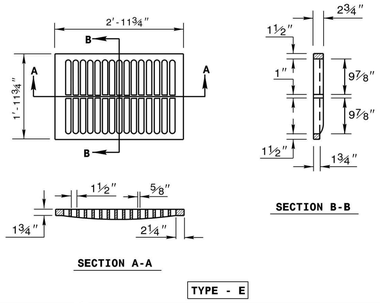
1-24

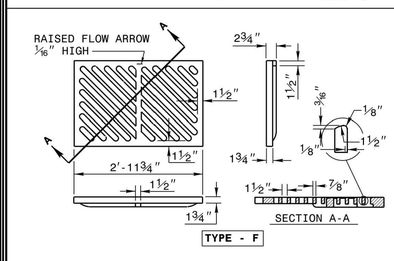
ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

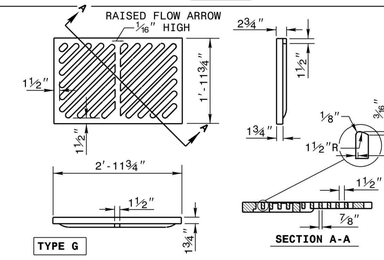
SHEET 1 OF 2
840.03

DETAIL SHOWING TYPES OF GRATES USE ACCORDING TO WATER FLOW.









STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2
840.03

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Rolesville
Genuine Community • Capital Connection
Est. 1837

ROLESVILLE FIRE DEPT DEDICATION SERVICE PRIDE

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CLH design, p.a.
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Suite 120
Cary, NC 27518
Phone: 919.319.6716
LA: C-106, PE: C-1595

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC
27571

UTILITY DETAILS

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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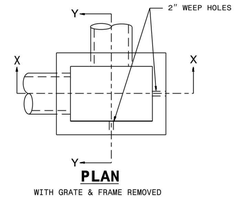
SHEET NUMBER:
C-9.04

CATCH BASIN DETAIL *N.T.S.*



PLAN

WITH GRATE & FRAME REMOVED

GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

MAX.DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STD. DWG. 840.45 OR 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

CONSTRUCT WITH PIPE CROWNS MATCHING.

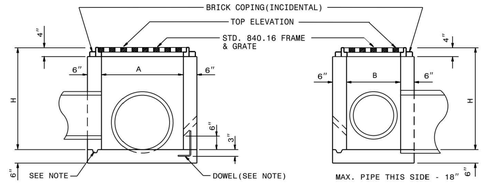
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.

INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.

INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.

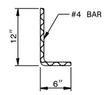
CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.



SECTION X-X

SECTION Y-Y



DOWEL

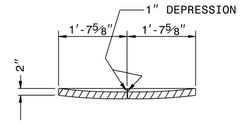
DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)								
DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONC. IN BOX			DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	TOTAL (CONCRETE FOR MINIMUM HEIGHT, H)	C.M.	R.C.
D	A	B	H					
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026
15"	〃	〃	2'-3"	〃	〃	0.648	0.023	0.036
18"	〃	〃	2'-6"	〃	〃	0.703	0.033	0.049
24"	〃	〃	3'-0"	〃	〃	0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

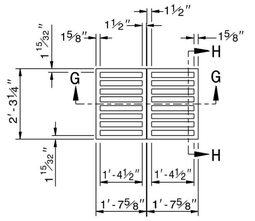
1-24

ROADWAY STANDARD DRAWING FOR
CONCRETE DROP INLET
12" THRU 30" PIPE

SHEET 1 OF 1
840.14

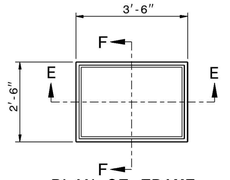


SECTION G-G



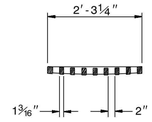
PLAN OF GRATING

CAST IRON

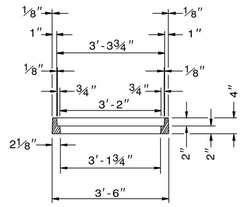


PLAN OF FRAME

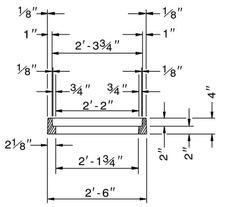
CAST IRON



SECTION H-H



SECTION E-E



SECTION F-F

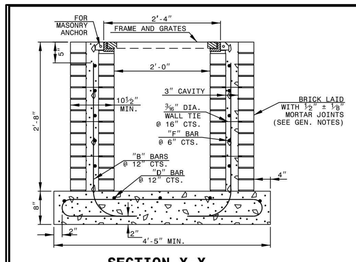
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
DROP INLET FRAME AND GRATES
FOR USE WITH STD. DWG.S 840.14 AND 840.15

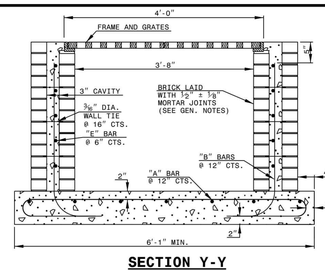
SHEET 1 OF 1
840.16

DROP INLET DETAIL *N.T.S.*



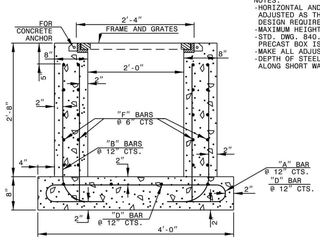
SECTION X-X

BRICK ALT.



SECTION Y-Y

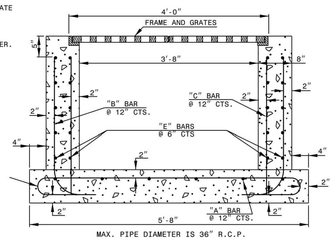
NOTES:
-HORIZONTAL AND VERTICAL DIMENSIONS MAY BE ADJUSTED AS THE FIELD CONDITIONS AND/OR ALTERNATE DESIGN REQUIRE.
-MAXIMUM HEIGHT FOR THIS STRUCTURE IS 14'-0".
-STD. DWG. 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.
-MAKE ALL ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
-DEPTH OF STEEL GRATE WILL REQIURE DEEPER SEAT ALONG SHORT WALLS.



MAX. PIPE DIAMETER IS 18" R.C.P.

SECTION X-X

CONCRETE ALT.



MAX. PIPE DIAMETER IS 36" R.C.P.

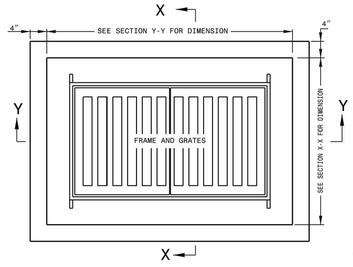
SECTION Y-Y

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

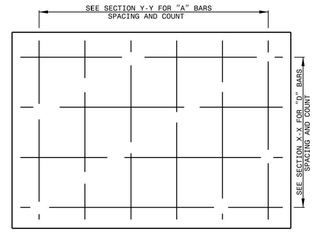
1-24

ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING GRATED DROP INLET
FOR DOUBLE FRAME AND GRATES

SHEET 1 OF 2
840.35



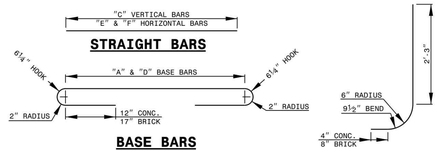
PLAN



PLAN OF BASE

BILL OF MATERIALS

COMMON		CONCRETE ALT.			BRICK ALT.		
BAR	SIZE	LENGTH	QUANTITY	WEIGHT	LENGTH	QUANTITY	WEIGHT
A	#5	6'-4½"	6	39.9	7'-7½"	6	47.7
B	#5	3'-4½"	16	56.3	3'-4½"	16	56.3
C	#5	2'-8"	14	38.9	-0-	-0-	-0-
D	#5	8'-0½"	4	33.6	9'-3½"	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 'B' (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



STRAIGHT BARS

BASE BARS

CORNER BARS

GENERAL NOTES:
-USE CLASS 'AA' CONCRETE FOR CAST IN PLACE CONCRETE BOX.
-USE CLASS 'B' CONCRETE IN THE WALL CAVITY FOR REINFORCED BRICK CONSTRUCTION AND CLASS 'AA' FOR THE FOOTING BASE.
-CHAMFER ALL EXPOSED CONCRETE CORNERS 1".
-USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
-IF PIPES ARE SET IN THE BASE FOLLOW CONSTRUCTION PROCEDURES SHOWN BY STD. DWG. 840.00.
-PRECAST UNITS MADE OF CLASS 'AA' CONCRETE MAY BE USED IN LIEU OF BRICK MASONRY CONSTRUCTION.
-INCLUDE REINFORCING STEEL COST IN THE UNIT OR LINEAR FOOT BID PRICE FOR "MASONRY DRAINAGE STRUCTURE".
-REFERENCE STD. DWG. 840.25 FOR FRAME ANCHORAGE.
-CONCRETE BRICK, JUMBO BRICK AND 4" SOLID CONCRETE BLOCK WILL BE PERMITTED.
-CONCRETE FOR BRICK BOX REFER TO SECTION 832 OF THE STANDARD SPECIFICATIONS.
-PROVIDE GRATED DROP INLETS OVER 3'-6" DEEP WITH STEPS SPACED 12" ON CENTER AS DIRECTED BY STD. DWG. 840.66.
-FRAME AND GRATES ARE SEPARATE CONTRACT ITEMS.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING GRATED DROP INLET
FOR DOUBLE FRAME AND GRATES

SHEET 2 OF 2
840.35

NOTE: SEE DETAIL 840.03 FOR CATCH BASIN GRATE DETAIL

DOUBLE INLET DETAIL *N.T.S.*

STORMWATER DETAILS *N.T.S.*

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ROLESVILLE FIRE SERVICE DEPT DEDICATION PRIDE

CLH DESIGN
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400 Regency Forest Drive
Suite 120
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Phone: 919.319.6716
LA: C-106, PE: C-1595

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

UTILITY DETAILS

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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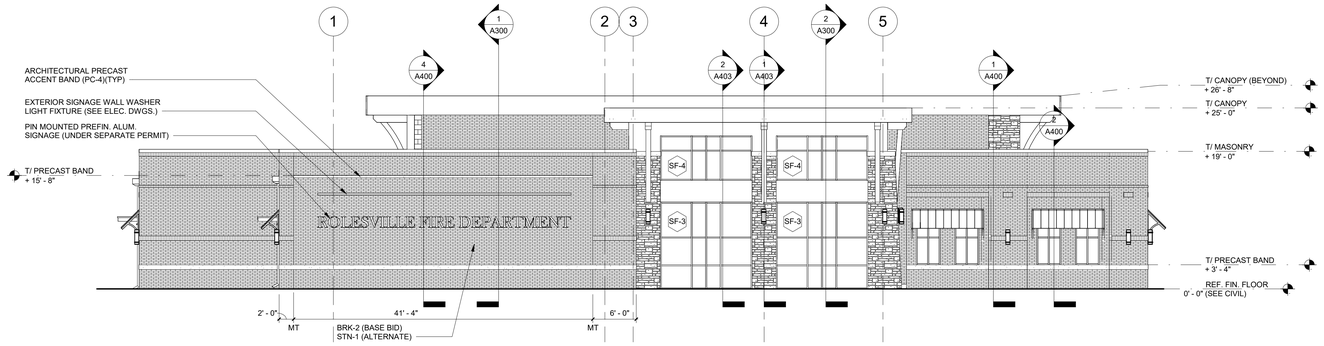
SHEET NUMBER:
C-9.05

EXT. COLOR SCHEDULE:

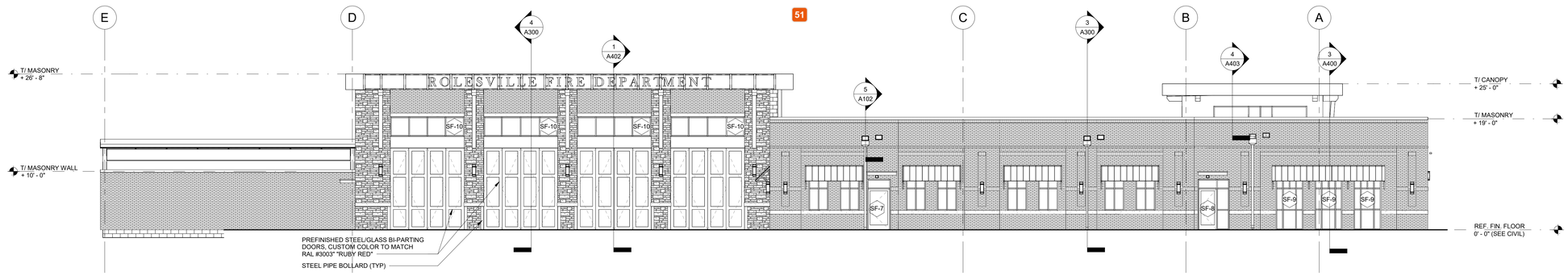
1. BRK-1: MODULAR BRICK VENEER, RUNNING BOND (U.N.O.). BASIS OF DESIGN: TAYLOR CLAY PRODUCTS #318 BURGUNDY WIRECUT. SUBSTITUTION SHALL BE SUBMITTED 10 DAYS PRIOR TO BID, SUBJECT TO COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.
2. BRK-2: MODULAR BRICK VENEER, RUNNING BOND (U.N.O.). BASIS OF DESIGN: TAYLOR CLAY PRODUCTS PEARL GRAY WIRECUT. SUBSTITUTION SHALL BE SUBMITTED 10 DAYS PRIOR TO BID, SUBJECT TO COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.
3. STN-1: INTEGRAL COLOR MODULAR STONE VENEER UNITS. BASIS OF DESIGN: ARRISCRAFT CITADEL 'MOCHA'. SUBSTITUTIONS SHALL BE SUBMITTED 10 DAYS PRIOR TO BID, SUBJECT TO COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.
4. ARCHITECTURAL PRECAST SHALL BE COLORED 'WHITE'. MANUFACTURER TO BE DERTERMINED AT A LATER DATE.
5. MTL-1: PREFINISHED ALUM. TO MATCH PAC-CLAD 'DARK BRONZE'. SUBSTITUTIONS SHALL BE SUBMITTED 10 DAYS PRIOR TO BID. SUBJECT TO COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS. BERRIDGE 'DARK BRONZE' IS ACCEPTABLE SUBSTITUTE. PREFIN. ALUM. COPINGS AS SCHEDULED, PREFIN. ALUM. GUTTERS, SCUPPERS, AND DOWNSPOUTS, PREFIN. ALUM. STANDING SEAM ROOFING & BRACKETS AT AWNINGS.
6. PREFINISHED STEEL AND GLASS BI-PARTING DOORS SHALL BE CUSTOM COLOR TO MATCH RAL #3003 RUBY RED.
7. PREFINISHED ALUM. AND GLASS SECTIONAL DOORS SHALL MATCH RAL #3003 RUBY RED.
8. PREFIN. ALUM. STOREFRONT SHALL MATCH PAC-CLAD 'DARK BRONZE'.
9. EXTERIOR HOLLOW METAL DOORS & FRAMES SHALL BE PAINTED (P-10).
10. BOLLARDS PAINTED (P-10).
11. UTILITY METERS SHALL BE PAINTED TO MATCH ADJACENT WALL.
12. MORTAR SHALL BE CUSTOM COLORED TO MATCH PRECAST AT AREAS WITH PRECAST, CUSTOM COLORED TO MATCH STN-1 AT AREAS WITH STN-1, AND SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS AT AREAS WITH BRK-1 & BRK-2.
13. ALL EXPOSED STEEL SHALL BE PAINTED TO MATCH ADJACENT COLOR U.N.O.
14. SEALANTS/CAULKING SHALL MATCH ADJACENT COLOR U.N.O.
15. SIGNAGE FINISH SHALL BE AS NOTED.

GENERAL NOTES:

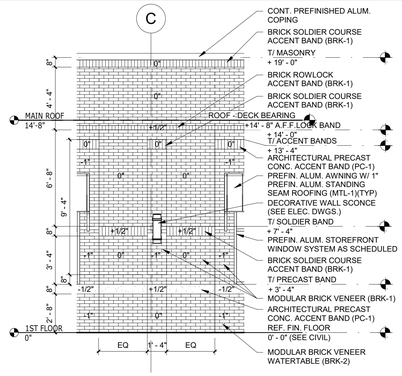
1. MASONRY JOINTS (MJ) ARE TO BE MAX. 30'-0" APPART U.N.O. IN DRAWINGS.
2. MASON IS TO COMPLETELY FILL THE HEAD AND BED JOINTS OF ALL MASONRY (U.N.O.)
3. MASON IS TO KEEP ALL CAVITIES CLEAR OF MORTAR.
4. PROVIDE SOLID BRICKS AT CORNERS AND FOR SOLDIER & ROWLOCK COURSES. PROVIDE FINISHED FACE ON ALL VISIBLE SIDES.
5. SEE SHEET A201 FOR PRECAST DETAILS.
6. SEE SHEET SERIES A400 - WALL SECTIONS FOR ADDITIONAL INFORMATION.
7. ALL WALL MOUNTED EQUIPMENT MUST BE PAINTED TO MATCH THE BUILDING.



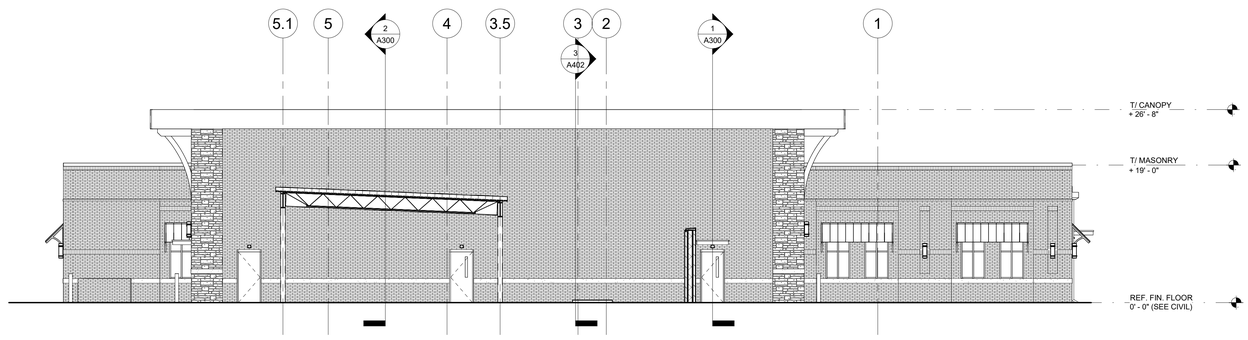
WEST ELEVATION | 1/8" = 1'-0" | 4



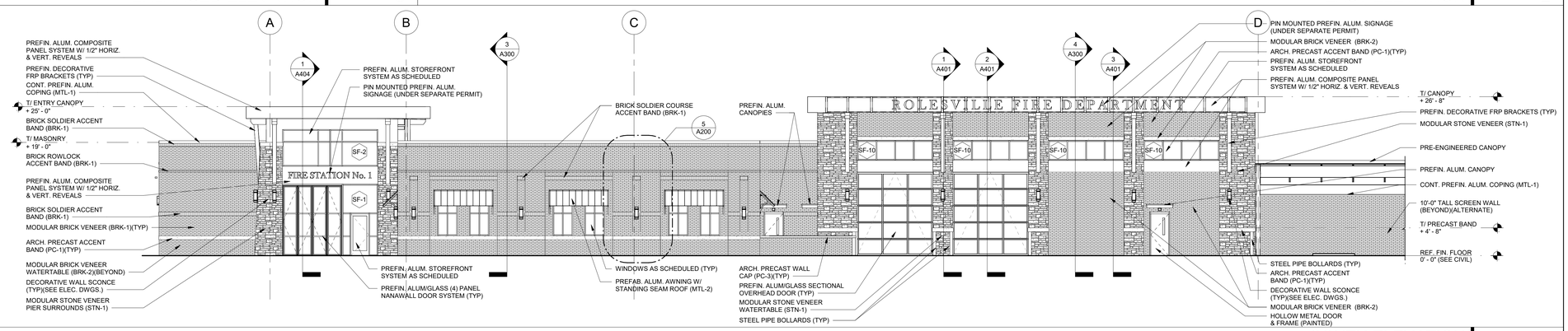
NORTH ELEVATION | 1/8" = 1'-0" | 3



ENLARGED ELEVATION | 1/4" = 1'-0" | 5



EAST ELEVATION | 1/8" = 1'-0" | 2



SOUTH ELEVATION | 1/8" = 1'-0" | 1

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TOWN OF ROLESVILLE FIRE STATION #1

EXTERIOR ELEVATIONS

DATE: 6-03-26
PROJECT NO: 24032

REVISIONS

NO:	DATE:	DESCRIPTION:

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SHEET NUMBER:
A200

51 **Michael Elabarger**
Does sheet AR200 replace this sheet A200? having both in the same plan set is confusing. Is there a reason or purpose for A200 given AR200?

100% DESIGN DEVELOPMENT

CID-25-07 | RALEIGH PLAN CASE # SDP-26-XX

TOWN OF ROLESVILLE FIRE STATION #1

LOT 2 - 408 E. YOUNG STREET

ROLESVILLE NC, 27571

TOWN OF ROLESVILLE

JUNE 22ND, 2026

VICINITY MAP

SITE DATA

OWNER:	*TOWN OF ROLESVILLE*
OWNER CONTACT:	*P.O. BOX 250 ROLESVILLE, NC 27571 MEDHAT BASELIOUS, PE, PMP CAPITAL PROJECT MANAGER, TOWN OF ROLESVILLE MEDHAT.BASELIOUS@ROLESVILLE.NC.GOV*
LANDSCAPE ARCHITECT: DESIGNER CONTACT:	*CLH DESIGN, P.A. RACHEL WATSON, PLA 919-319-6716 400 REGENCY FOREST DRIVE, STE.120 CARY, NC 27511 RWATSON@CLHDESIGNPA.COM*
CIVIL ENGINEER: DESIGNER CONTACT:	*CLH DESIGN, P.A. DANI LOVERA, PE 919-319-6716 400 REGENCY FOREST DRIVE, STE. 120 CARY, NC 27511 DLOVERA@CLHDESIGNPA.COM*
PROJECT ADDRESS:	*LOT 2 – 408 E YOUNG ST ROLESVILLE, NC 27571*
PLANNING JURISD:	*TOWN OF ROLESVILLE*
PIN:	*1768898727*
DEEDED ACREAGE:	*13.39*
ZONING:	*BT – BUSINESS INDUSTRIAL AND TECHNOLOGY*
EXISTING USE:	*VACANT*
PROPOSED USE:	*FIRE STATION*
DISTURBED AREA:	*2.5 ACRES*
PROPOSED FIRE- BUILDING AREA SF: BUILDING HEIGHT:	*19,449 SQFT*
RIVER BASIN:	*NEUSE RIVER*
FLOODZONE:	*N/A*
FEMA MAP:	*PANEL 3720176900J*

SHEET INDEX

CIVIL

C-0.00	*COVER*
C-1.01	*STAKING PLAN*
C-2.01	*EXISTING CONDITIONS & DEMOLITION PLAN*
C-3.01	*GRADING PLAN*
C-4.01	*EROSION CONTROL PLAN*
C-5.01	*UTILITY PLAN*
C-6.01	*LANDSCAPE PLAN*
C-8.01	*SITE DETAILS*
C-8.02	*SITE DETAILS*
C-9.01	*UTILITY DETAILS*
C-9.02	*UTILITY DETAILS*
C-9.03	*UTILITY DETAILS*
C-9.04	*UTILITY DETAILS*
C-9.05	*UTILITY DETAILS*

ARCHITECTURAL

A200	*EXTERIOR ELEVATIONS*

PARKING SPACE REQUIREMENTS:

PARKING STANDARD : 2.5 PARKING SPACES PER 1000SF
(19,449SF / 1000SF) X 2.5
= 49 PARKING SPACES REQUIRED
47 PARKING SPACES PROVIDED + 3 SPACE PARKING CANOPY

BIKE STANDARD : 1 SPACE PER 5000SF
19,449SF / 5,000SF
= 4 BIKE SPACES REQUIRED
4 BIKE SPACES PROVIDED

TYPE 3 LANDSCAPE BUFFER REQUIREMENTS:

25' TYPE 3 LANDSCAPE BUFFER:

STANDARD : 4 TREES PER 100LF – (380LF / 100) X 4 = 15 TREES REQUIRED
15 TREES PROVIDED

STANDARD : 2 UNDERSTORY TREES PER 100LF – (380LF / 100) X 2 = 8 TREES REQUIRED
8 UNDERSTORY TREES PROVIDED

STANDARD : 60 SHRUBS PER 100LF – (380LF / 100) X 60 = 228 SHRUBS REQUIRED
228 SHRUBS PROVIDED

6' WALL – NOT PROVIDED

52

53

ATTENTION CONTRACTORS

THE CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER, AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE INFRASTRUCTURE INSPECTIONS DIVISION AND SCHEDULE A PRE-CONSTRUCTION MEETING ON THE DEVELOPMENT PORTAL PRIOR TO BEGINNING ANY CONSTRUCTION. RALEIGH WATER MUST BE CONTACTED AT (919) 996-4540 AT LEAST TWENTY-FOUR HOURS PRIOR TO BEGINNING ANY WORK ACTIVITY AROUND CRITICAL WATER AND SEWER INFRASTRUCTURE.

FAILURE TO NOTIFY CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, WILL RESULT IN THE ISSUANCE OF MONETARY FINES, AND REQUIRE REINSTALLATION OF ANY WATER OR SEWER FACILITIES NOT INSPECTED AS A RESULT OF THIS NOTIFICATION FAILURE.

FAILURE TO CALL FOR INSPECTION, INSTALL A DOWNSTREAM PLUG, HAVE PERMITTED PLANS ON THE JOBSITE, OR ANY OTHER VIOLATION OF CITY OF RALEIGH STANDARDS WILL RESULT IN A FINE AND POSSIBLE EXCLUSION FROM FUTURE WORK IN THE CITY OF RALEIGH.

TOWN OF ROLESVILLE SIGNATURE BLOCK

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☐ SEC-_____
STORMWATER MGMT.☐SWF-_____
FLOOD STUDY ☐ SWF-_____
DATE_____

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Cary, NC 27518
Phone: 919.319.6716
LA: C-106, PE: C-159

PRELIMINARY - NOT FOR CONSTRUCTION

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

COVER

DATE: 06-22-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

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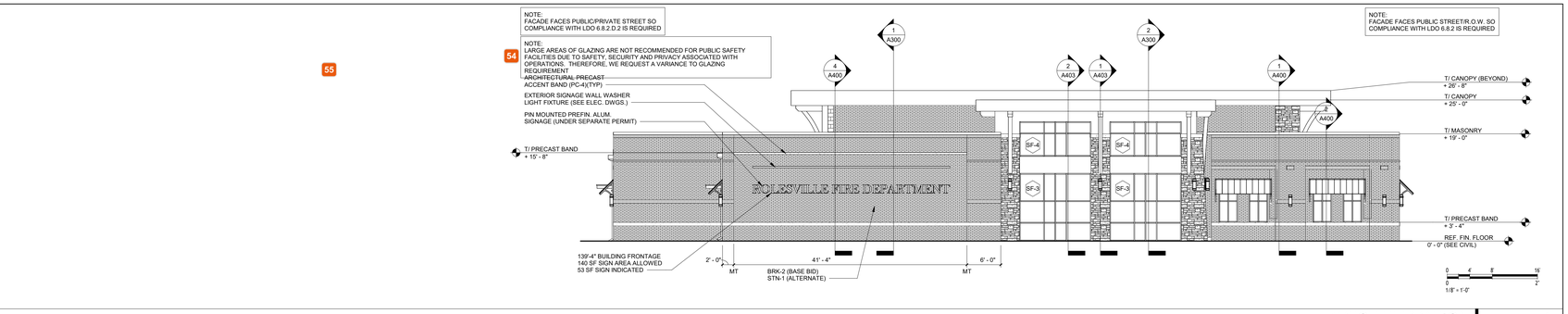
SHEET NUMBER:

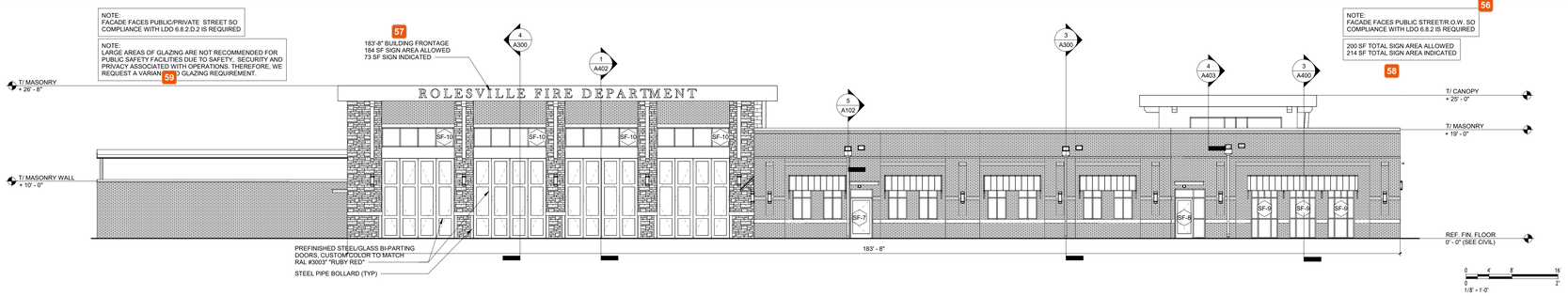
C-0.00

52 **Stephen Wensman**
This note should be on the landscape plans.

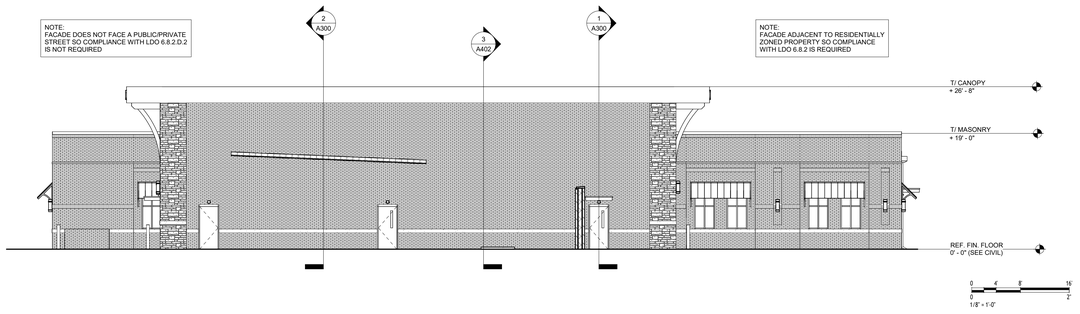
53 **Stephen Wensman**
See updated buffer requirements and add 75% opacity requirement to this note



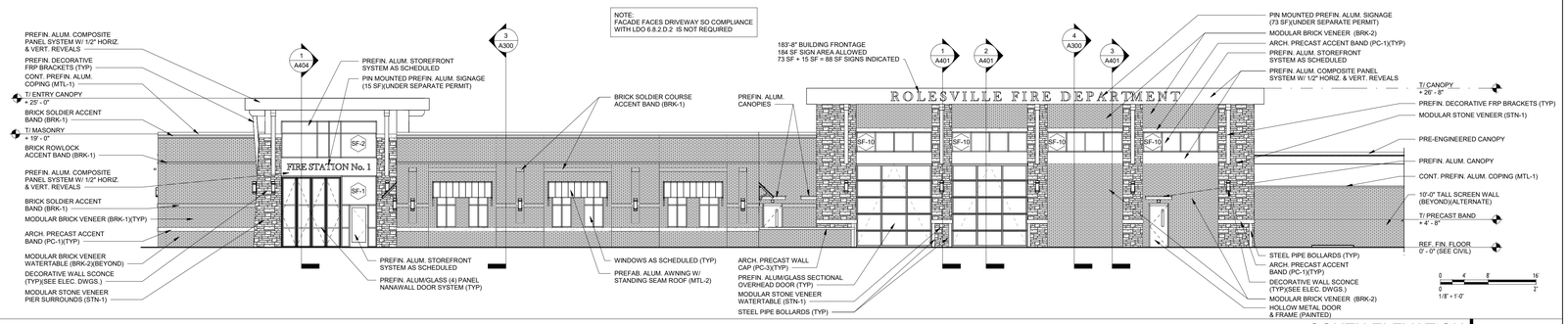
WEST ELEVATION 1/8" = 1'-0" 4



NORTH ELEVATION 1/8" = 1'-0" 3



EAST ELEVATION 1/8" = 1'-0" 2



SOUTH ELEVATION 1/8" = 1'-0" 1

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ROLESVILLE FIRE SERVICE PRIDE DEPT DEDICATION

TOWN OF ROLESVILLE FIRE STATION #1

EXTERIOR ELEVATIONS

DATE: 6-03-26
PROJECT NO: 24032

REVISIONS

NO:	DATE:	DESCRIPTION:

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SHEET NUMBER:
AR200

Exterior Elevations_AR200-20260615.pdf · Page 1

54 Michael Elabarger
Remove this 2nd note here - see other Comment about Public Safety uses being exempted from Transparency requirement.

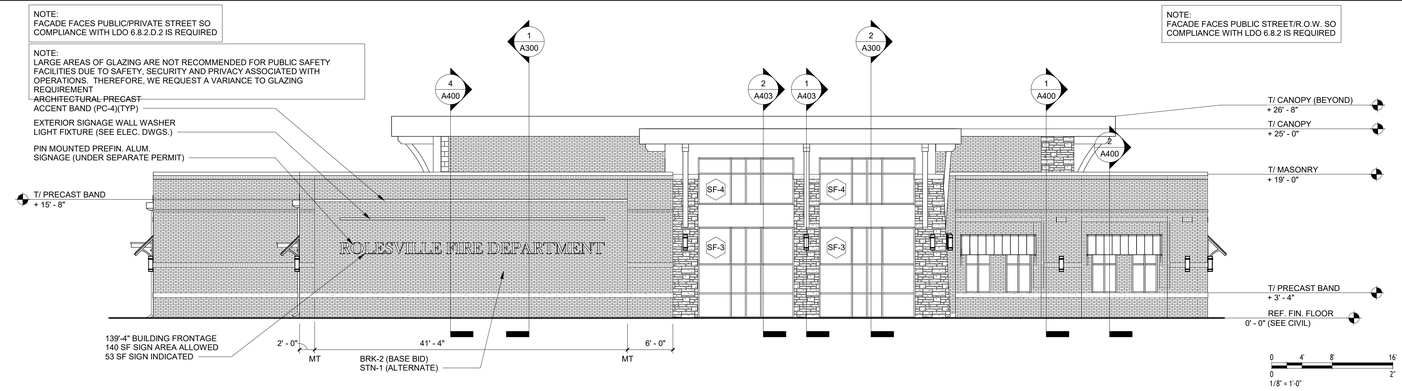
55 Michael Elabarger
LDO 6.8.2.D.2. - the 4th sentence - says: " Public Safety uses included in Government Facility uses are exempt from this requirement. " Please add a note re-stating that on the elevation drawings to explain for the future WHY this building is not meeting the Transparency requirements - because they are Not Applicable to public safety uses. TY.

56 Michael Elabarger
This top note - saying it is applicable is not the plans demonstrating compliance - there are lots of materials and measurement call-outs, but none relate to an LDO standard that says "the minimum of this is X and Y is proposed, and thus complies" - that is demonstration of compliance.

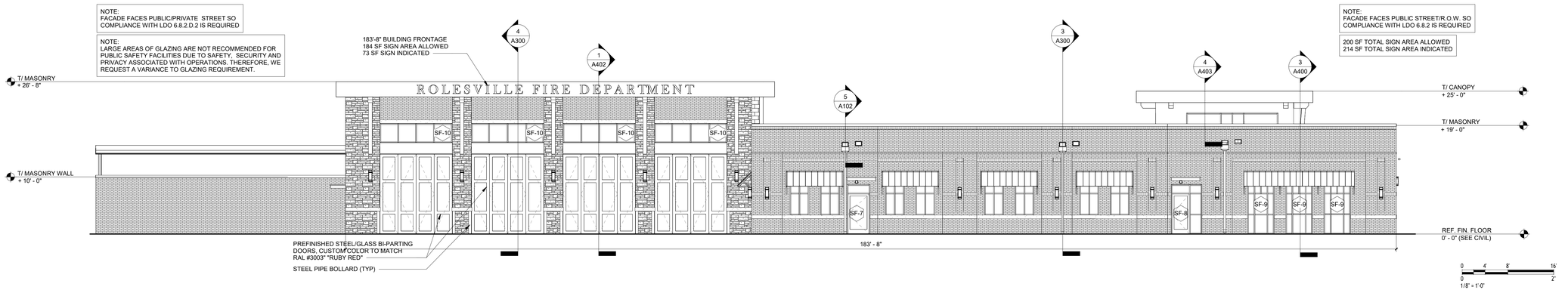
57 Michael Elabarger
SIGNAGE is a separate Permit process - NO signage is being approved within this plan set.

58 Michael Elabarger
While no SIGNAGE is reviewed or approved (permitted) via this Site Development Plan - the numbers indicated do NOT equate to compliance - if the maximum sign area is 200SF, you can't propose 214 SF - that is Not In Compliance.

59 Michael Elabarger
See Previous Comment about Public Safety uses being exempt from Transparency - remove this note altogether.



WEST ELEVATION | 1/8" = 1'-0" | 4



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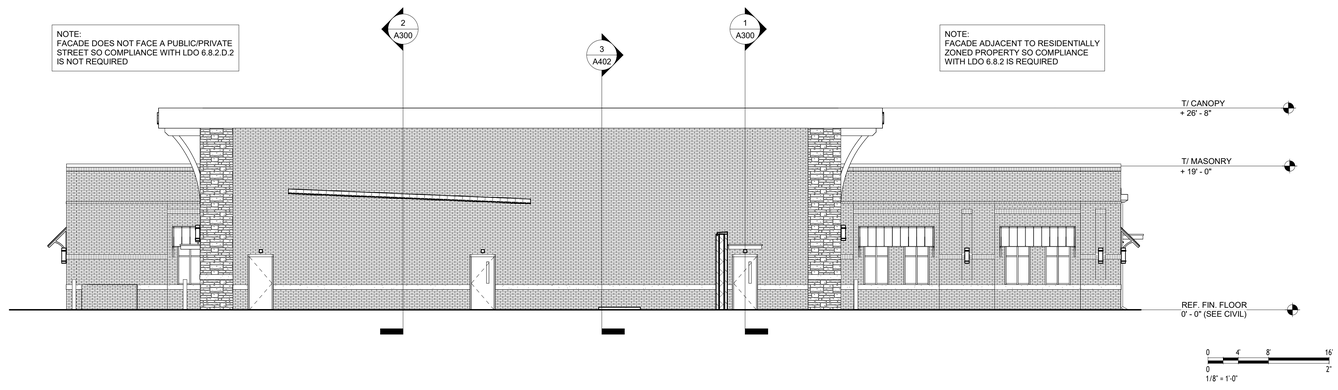
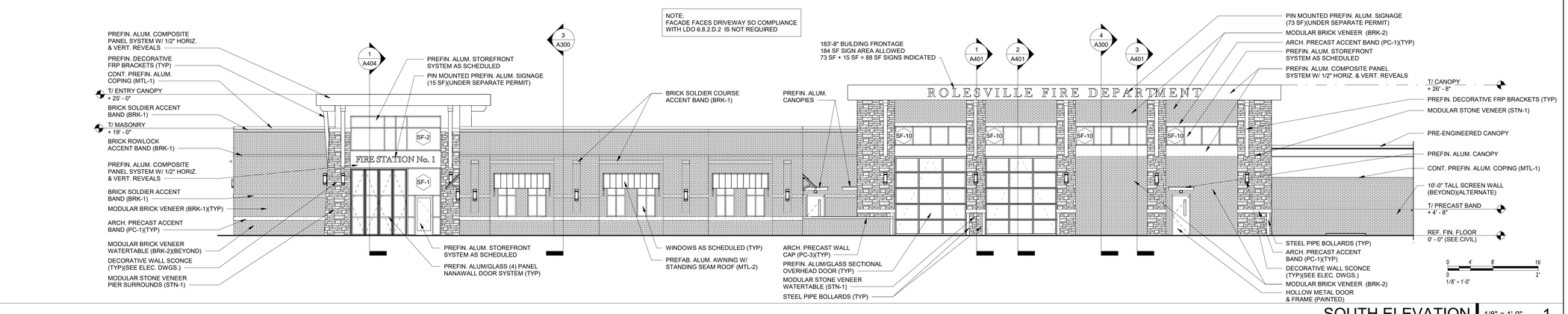


EAST ELEVATION | 1/8" = 1'-0" | 2



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TOWN OF ROLESVILLE FIRE STATION #1

EXTERIOR ELEVATIONS

DATE: 6-03-26
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AR200