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: September 11, 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	Repeat Comment(s)
Jacqueline Thompson On-Call Civil Engineer	jacqueline.thompson@bolton-menk.com	Updates Requested
Michael Elabarger Assistant Planning Director	melabarger@rolesvillenc.gov	Repeat Comment(s)
Michele Raby Planner II	mraby@rolesvillenc.gov	Updates Requested
Stephen Wensman Planning Director	swensman@rolesvillenc.gov	Repeat Comment(s)
Stephen Wolf Wake County Deputy Fire Marshal	stephen.wolf@wake.gov	Updates Requested

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

SW Stephen Wensman
Planning Director

The Site Plan Checklist states that a Lighting Plan is required per LDO Section 6.6.F, but the Lighting Plan section of the checklist is left blank and no Lighting Plan was included in the submitted plan set. Please provide a Lighting Plan prepared, signed, and sealed by a licensed engineer, and update the checklist accordingly.

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 1 • September 1, 2026, 5:56pm

2

ME Michael Elabarger
Assistant Planning Director

This Cover sheet looks a little different than that for POlice - they should be identical in arrangement etc as they are the same thing (SDP). please learn from the other SDP and vice versa to be consistent - TY!

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 1 • September 4, 2026, 10:43am

3

JT Jacqueline Thompson
On-Call Civil Engineer

Please include pre and post impervious and pervious numbers

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 1 • September 11, 2026, 1:04pm

4

SW Stephen Wensman
Planning Director

TAs are not entitlements - please remove

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 1 • September 1, 2026, 5:43pm

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.
** Plans are preliminary and not for construction. Please include fire line, FDC, and all fire hydrant information on the next submittal. Plans will be reviewed once stamped construction drawings are submitted.

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 2 • September 11, 2026, 9:31am

6

JT Jacqueline Thompson
On-Call Civil Engineer

Adjust text to avoid overlap for legiibility

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 3 • September 11, 2026, 1:02pm

7

JT Jacqueline Thompson
On-Call Civil Engineer

It appears there are culverts here - clarify if these will be removed since they are under the roadway

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 4 • September 11, 2026, 1:11pm

8 JT Jacqueline Thompson
On-Call Civil Engineer

Adjust overlapping text for legibility

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 4 • September 11, 2026, 1:06pm

9 JT Jacqueline Thompson
On-Call Civil Engineer

This leader doesn't appear to be pointing at a structure. Please review and adjust as necessary.

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 4 • September 11, 2026, 1:08pm

10 JT Jacqueline Thompson
On-Call Civil Engineer

Adjust text for overlap - this comment applies to all relevant sheets.

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 4 • September 11, 2026, 1:13pm

11 JT Jacqueline Thompson
On-Call Civil Engineer

Please label and define what is being removed for the demo plan - all buildings show as existing but doesn't clarify demo

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 4 • September 11, 2026, 1:07pm

12 JT Jacqueline Thompson
On-Call Civil Engineer

REPEAT: Please include zoning of adjacent properties

V2_SDP 26- 008_2026-08-19 Rolesville Fire Department.pdf · Page 4 • September 11, 2026, 1:09pm

13 SW Stephen Wensman
Planning Director

The exterior elevations provided in the main Site Development Plan set (Sheet A200) differ from the separately uploaded elevations file (Sheet AR200). The separate AR200 sheet includes additional notes regarding LDO compliance and a variance request that are missing from the main plan set. Please ensure all submitted plan sheets are consistent and represent the most current version of the project.

Exterior Elevations_AR200-20260615.pdf · Page 1 • September 1, 2026, 5:57pm

14 SW Stephen Wensman
Planning Director

Sheet AR200 includes a note stating 'WE REQUEST A VARIANCE TO GLAZING REQUIREMENT.' Variances to the Land Development Ordinance cannot be granted through a Site Development Plan review. If you wish to pursue a variance, you must submit a separate Zoning Variance Application to be reviewed by the Board of Adjustment.

Exterior Elevations_AR200-20260615.pdf · Page 1 • September 1, 2026, 5:59pm

100% DESIGN DEVELOPMENT

CID-25-07 | ROLESVILLE PLAN CASE # SDP-26-0008

TOWN OF ROLESVILLE FIRE STATION #1

LOT 2 - 408 E. YOUNG STREET
ROLESVILLE NC, 27571
TOWN OF ROLESVILLE
AUGUST 19TH, 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:	1768098727 & 1769102240
DEEDED ACREAGE:	13.39 ACRES
SITE ACREAGE:	2.5 ACRES
ZONING:	BT - BUSINESS INDUSTRIAL AND TECHNOLOGY
EXISTING USE:	VACANT
PROPOSED USE:	FIRE STATION (GOVERNMENT FACILITY)
DISTURBED AREA:	2.5 ACRES
BUILDING AREA SF:	19,449 SQFT
PROPOSED BUILDING HEIGHT:	26' 8"
RIVER BASIN:	NEUSE RIVER
FLOODZONE:	N/A
FEMA MAP:	PANEL 3720176900J

SHEET INDEX

CIVIL

C-0.00	COVER
C-0.02	FIRE APPARATUS EXHIBIT
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

AR200	EXTERIOR ELEVATIONS
AR201	DUMPSTER ENCLOSURE DETAILS

ELECTRICAL

E010	ELECTRICAL SITE PLAN
E011	ELECTRICAL SITE PHOTOMETRICS
E503	ELECTRICAL DETAILS
E701	ELECTRICAL LIGHTING FIXTURE SCHEDULE

PERVIOUS ENTITLEMENTS

CASE	APPROVAL DATE
CID-26-0003, CID-25-47	-
TA-26-0005	2026-06-16
REZ-26-0003	2026-06-16
PSP-TBD	-

REVISION HISTORY

REV #	DESCRIPTION	DATE SUBMITTED
REV # 1	1st PLAN SUBMITTAL	JUNE 22nd, 2026
REV # 2	TOR COMMENTS	AUGUST 19th, 2026

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

TOWN OF ROLESVILLE SIGNATURE BLOCK

RALEIGH WATER INSPECTIONS QUANTITIES (SUBDIVISIONS & SITE PLANS)	
NUMBER OF LOTS	6
NUMBER OF UNITS	N/A
PUBLIC WATER (LF)	2023
PUBLIC SEWER (LF)	950
PUBLIC FORCE MAIN (LF)	N/A
PRIVATE SEWER (LF)	360
WATER SERVICE STUBS (QTY)	6
SEWER SERVICE STUBS (QTY)	0
AVERAGE DAILY FLOW PER PHASE	TBD

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☐ SEC-_____
STORMWATER MGMT. ☐ SWF-_____
FLOOD STUDY ☐ SWF-_____
DATE_____
This approval is valid for one year from date of approval

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.

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 • Coastal Connection
Est. 1837

ROLESVILLE FIRE DEPT. SERVICE DEDICATION PRIDE

CLH DESIGN
CLH design, p.a.
400 Regency Forest D
Suite 120
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: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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.

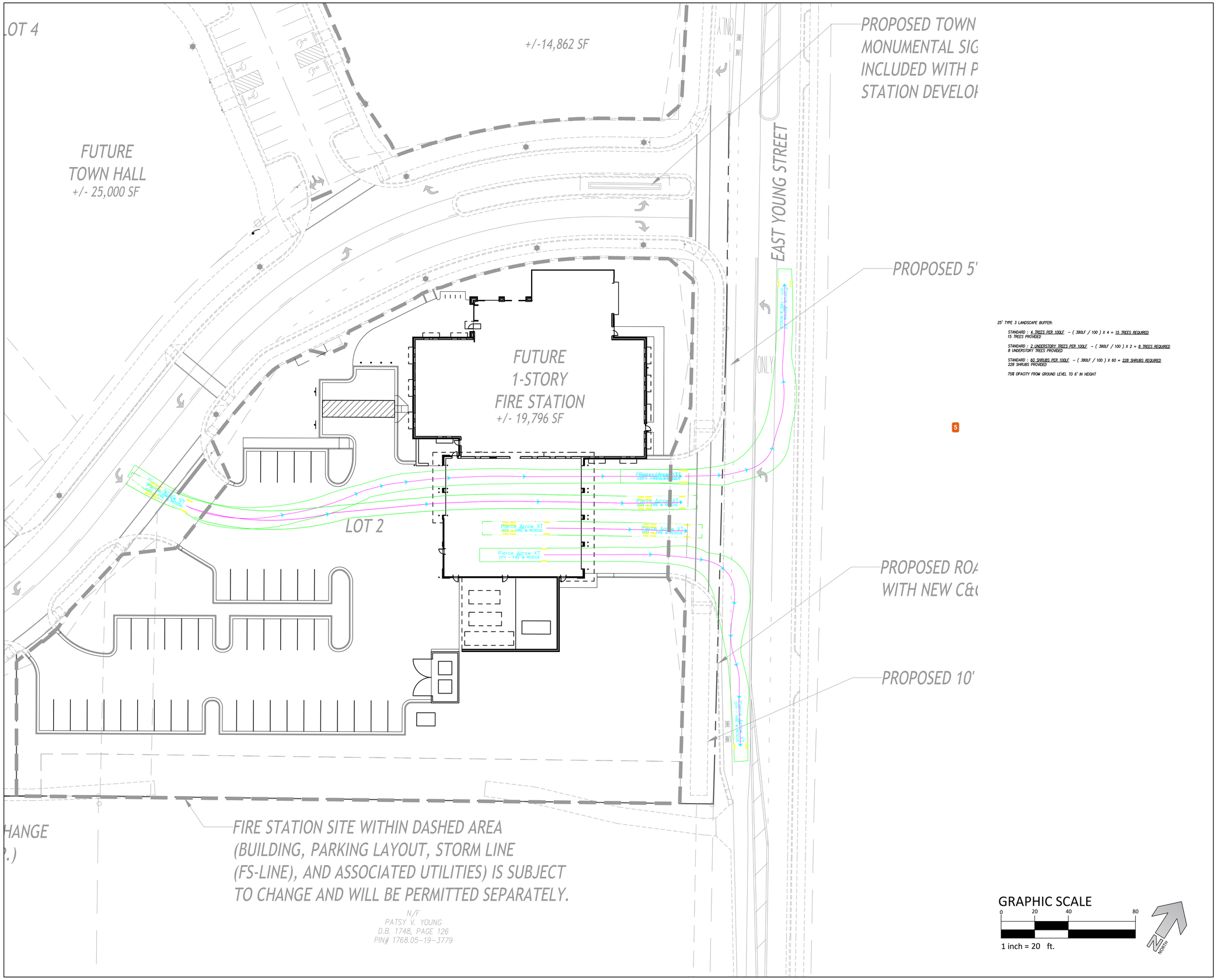
SHEET NUMBER:
C-0.00

1 **Stephen Wensman**
The Site Plan Checklist states that a Lighting Plan is required per LDO Section 6.6.F, but the Lighting Plan section of the checklist is left blank and no Lighting Plan was included in the submitted plan set. Please provide a Lighting Plan prepared, signed, and sealed by a licensed engineer, and update the checklist accordingly.

2 **Michael Elabarger**
This Cover sheet looks a little different than that for POlice - they should be identical in arrangement etc as they are the same thing (SDP). please learn from the other SDP and vice versa to be consistent - TY!

3 **Jacqueline Thompson**
Please include pre and post impervious and pervious numbers

4 **Stephen Wensman**
TAs are not entitlements - please remove



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

75% OPACITY FROM GROUND LEVEL TO 6' IN HEIGHT

5

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

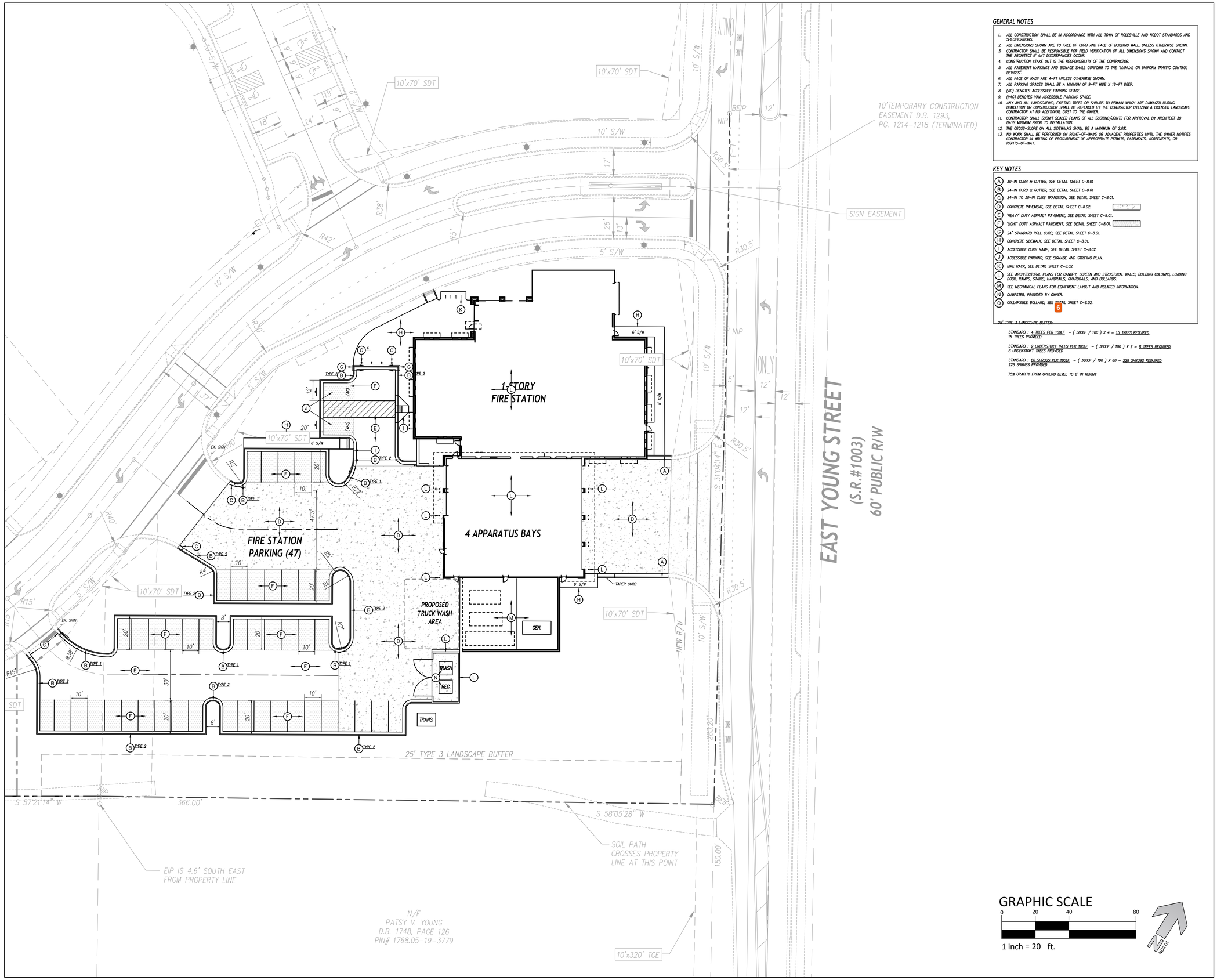
FIRE APPARATUS EXHIBIT

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-0.02

5 **Stephen Wolf**
** 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.
** Plans are preliminary and not for construction. Please include fire line, FDC, and all fire hydrant information on the next submittal. Plans will be reviewed once stamped construction drawings are submitted.



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 DOCK, 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.

6

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

75% OPACITY FROM GROUND LEVEL TO 6' IN HEIGHT

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

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

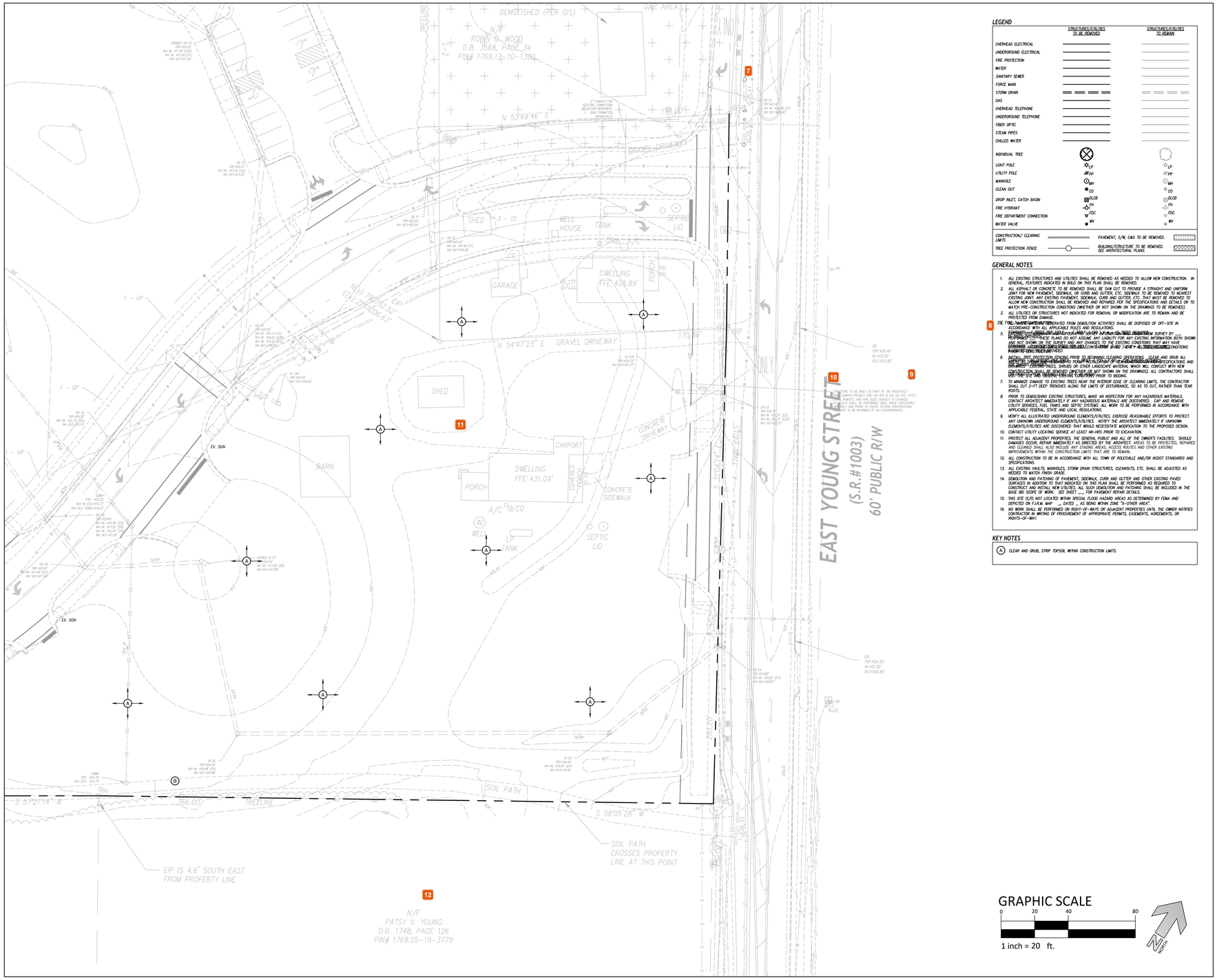
STAKING PLAN

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-1.01

6 Jacqueline Thompson
Adjust text to avoid overlap for legibility



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	PP	PP
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		PAVEMENT, S/W, C&G TO BE REMOVED.	
TREE PROTECTION FENCE		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 EXPANSION 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 MATERIALS SEPARATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
5. ~~EXISTING STRUCTURES, UTILITIES AND OTHER FEATURES SHOWN ON THESE PLANS WERE PLOTTED FROM A SURVEY BY ___ IN ___. 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. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADE, INVERT & OTHER CONDITIONS PRIOR TO CONSTRUCTION.~~
6. INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL VEGETATION, SHRUBS AND OTHER LANDSCAPE MATERIAL WITHIN THE CLEARING LIMITS AS SPECIFIED ON THE PLANS AND IN THE SPECIFICATIONS AND ORDINANCES. PRESERVE 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 BECOME FAMILIAR WITH 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 VALVES, 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

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 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

DEMO PLAN

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-2.01

7 Jacqueline Thompson
It appears there are culverts here - clarify if these will be removed since they are under the roadway

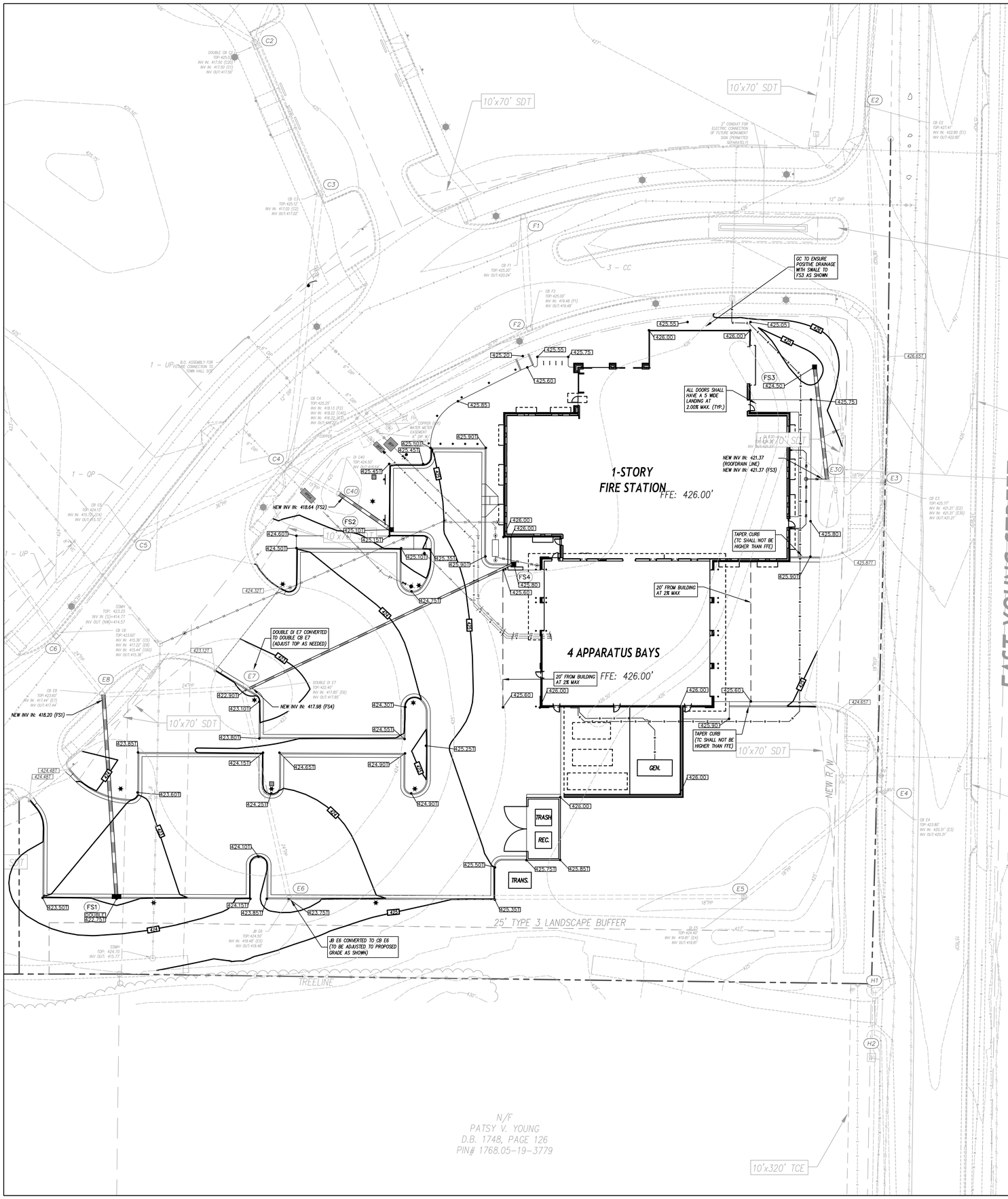
8 Jacqueline Thompson
Adjust overlapping text for legibility

9 Jacqueline Thompson
This leader doesn't appear to be pointing at a structure. Please review and adjust as necessary.

10 Jacqueline Thompson
Adjust text for overlap - this comment applies to all relevant sheets.

11 Jacqueline Thompson
Please label and define what is being removed for the demo plan - all buildings show as existing but doesn't clarify demo

12 Jacqueline Thompson
REPEAT: Please include zoning of adjacent properties



GRADING LEGEND

	EXISTING CONTOURS
	FINAL CONTOURS
270.4' +	EXISTING SURVEY SPOT ELEVATION
270.50	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%.

13.1. 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%	18	99	PP	418.80	418.20	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-9.05)	1. USE C-RING
DI DROP INLET (SEE DETAIL ON C-9.06)	2. DOUBLE INLET
PP POLYPROPYLENE PIPE	
A4 STRUCTURE NUMBER	

GRAPHIC SCALE

0 20 40 80

1 inch = 20 ft.

NORTH

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 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

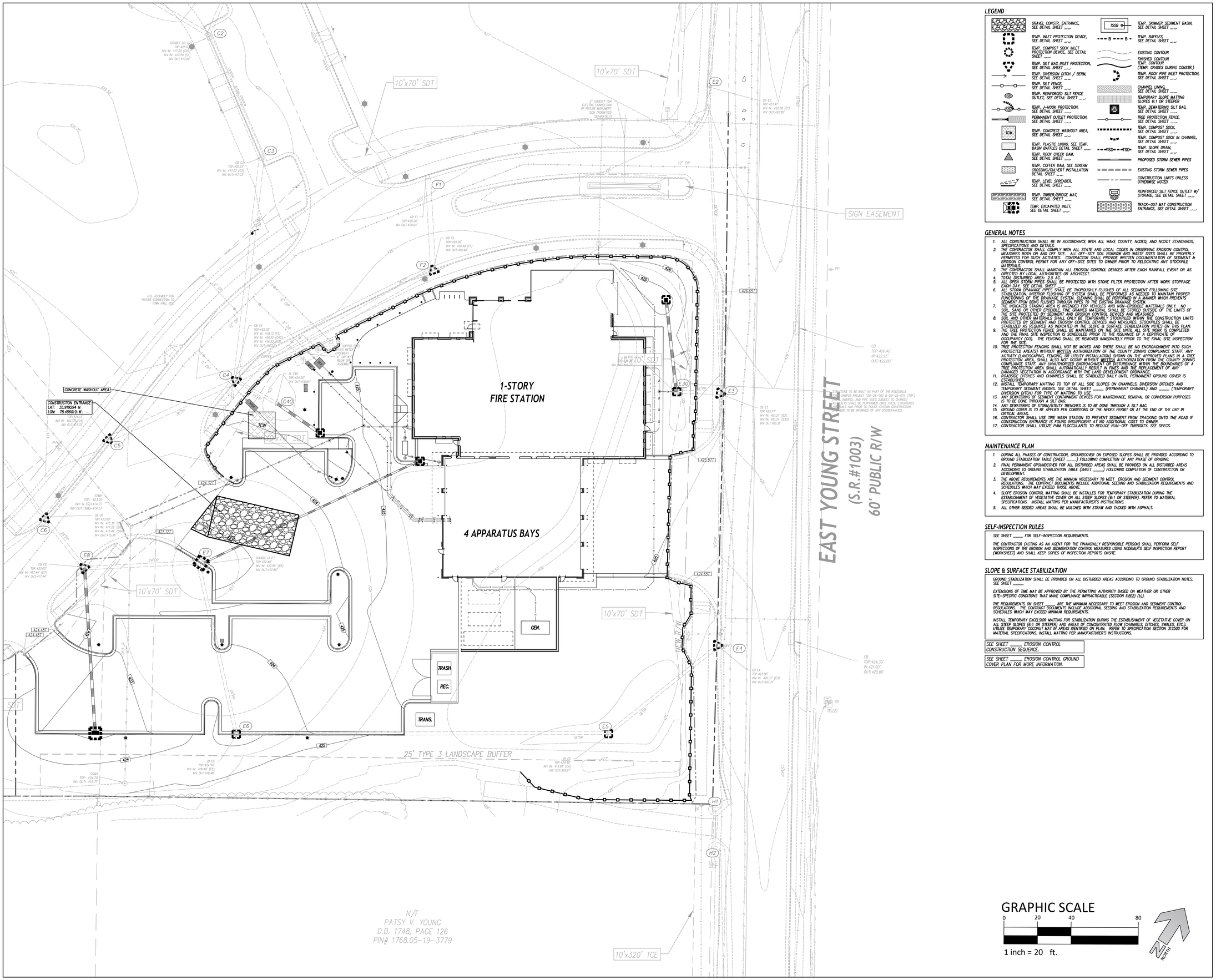
ROLESVILLE, NC 27571

GRADING PLAN

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-3.01



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 ___
- TCW TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET ___
- 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 ___
- TSSB TEMP. SKIMMER SEDIMENT BASIN, SEE DETAIL SHEET ___
- B B TEMP. BAFFLES, SEE DETAIL SHEET ___
- 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 ___
- SD SD TEMP. SLOPE DRAIN, SEE DETAIL SHEET ___
- 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 RESULT IN FINES 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). REFER TO 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.

GRAPHIC SCALE

0 20 40 80

1 inch = 20 ft.

NORTH

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

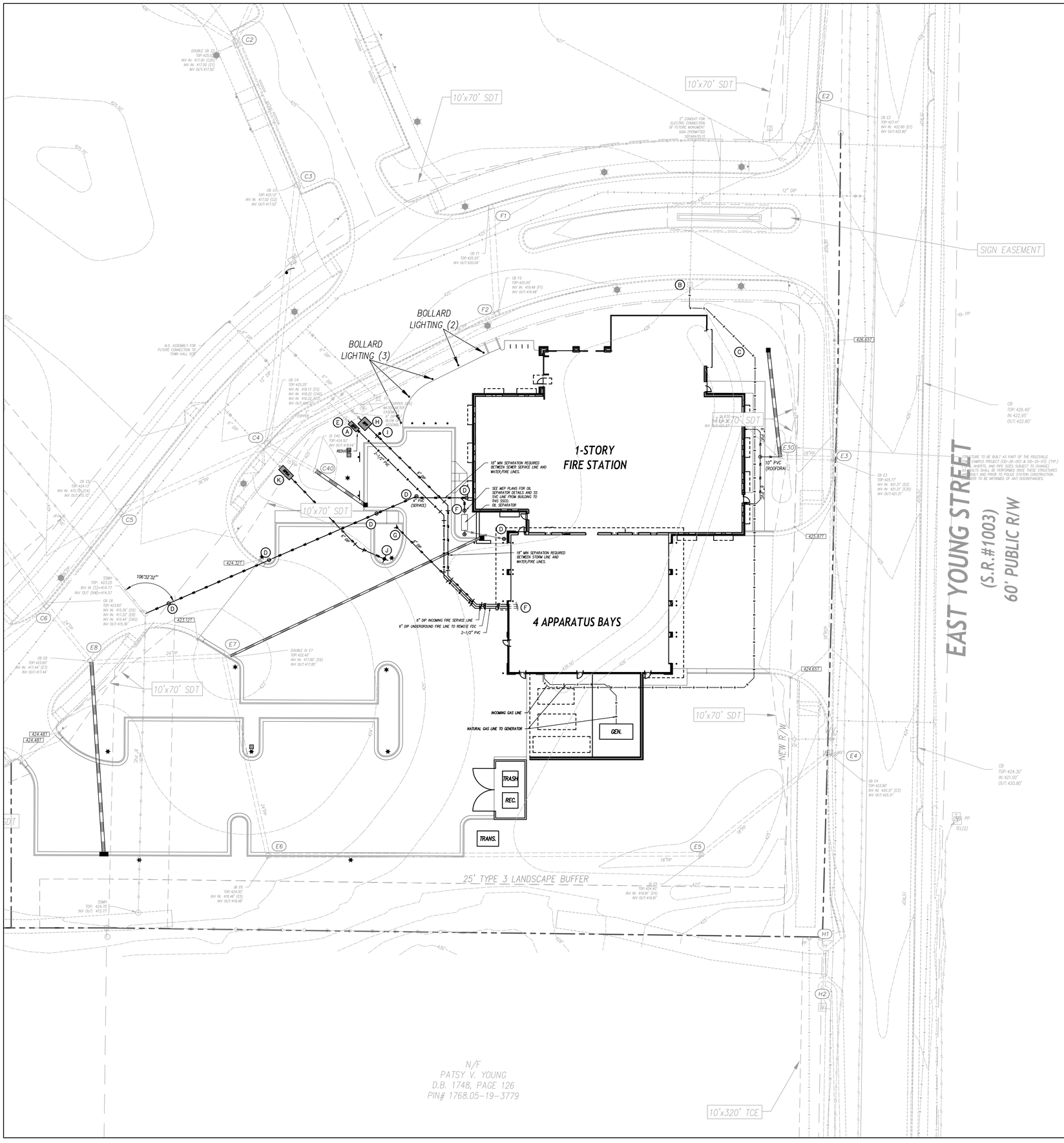
ROLESVILLE, NC 27571

EROSION CONTROL PLAN

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-4.01



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 975XL2 OR APPROVED EQUIVAMENT BACKFLOW PREVENTER (BFP) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C-9.02. 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 C-9.03.
- (E) CONNECT TO EXISTING 2.0-IN WATER METER.
- (F) EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION AND INVERTS.
- (G) FIRE DEPARTMENT CONNECTION, SEE DETAIL SHEET C-9.02.
- (H) 6-IN ZURN-WILKINS MODEL 375 REDUCED PRESSURE BACKFLOW ASSEMBLY (RPA) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C-9.02. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (I) POST INDICATOR VALVE W/ TAMPER SWITCH, SEE DETAIL SHEET C-9.02 AND SPECIFICATIONS. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (J) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C-9.03.
- (K) 6-IN ZURN-WILKINS MODEL 475 REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C-9.02. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

GRAPHIC SCALE

0 20 40 80

1 inch = 20 ft.

NORTH

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

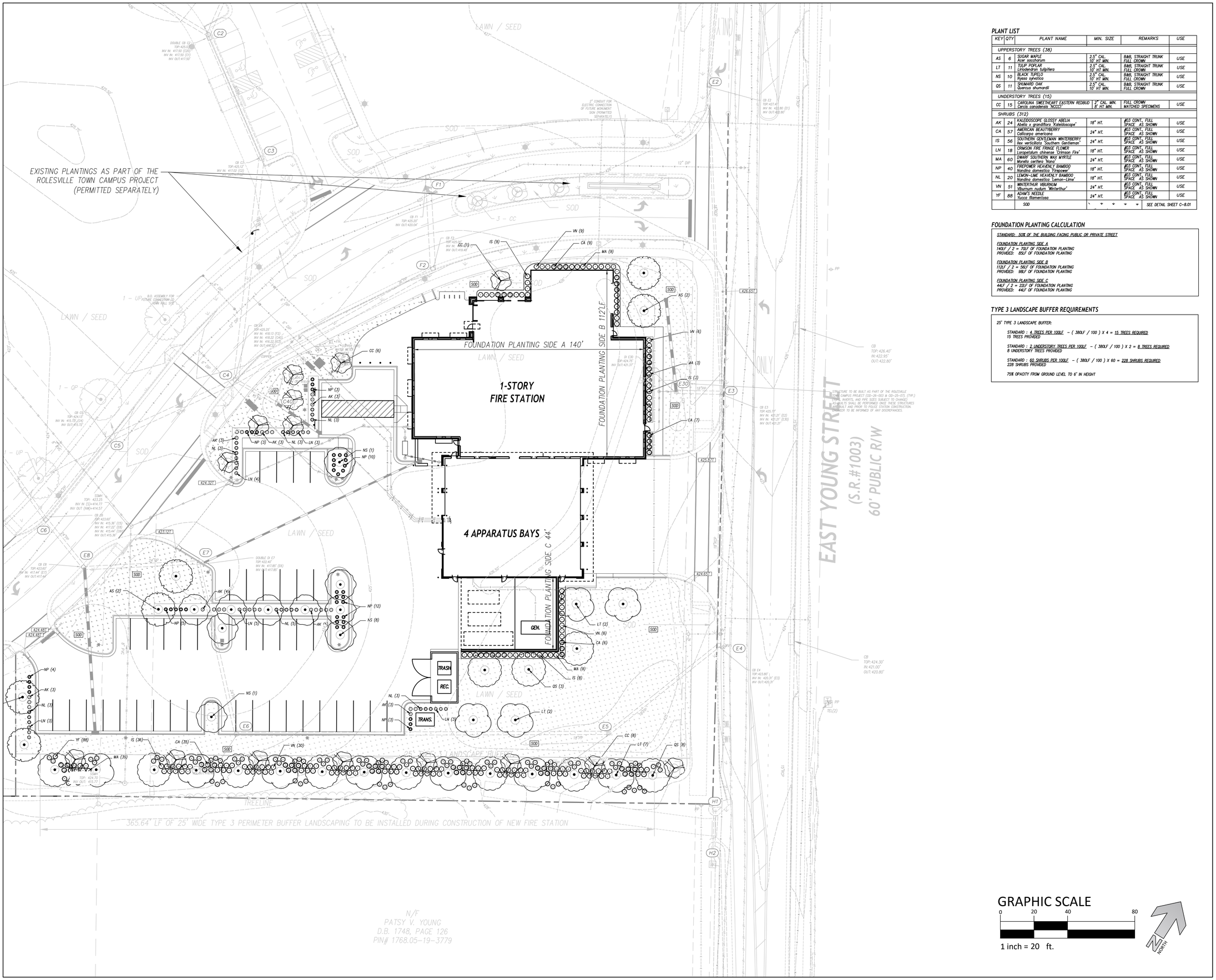
ROLESVILLE, NC 27571

UTILITY PLAN

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-5.01



PLANT LIST

KEY	QTY	PLANT NAME	MIN. SIZE	REMARKS	USE
UPPERSTORY TREES (38)					
AS	6	SUGAR MAPLE *Acer saccharum*	2.5" CAL. 10' HT MIN.	B&B, STRAIGHT TRUNK FULL CROWN	USE
LT	11	TULIP POPLAR *Liriodendron tulipifera*	2.5" CAL. 10' HT MIN.	B&B, STRAIGHT TRUNK FULL CROWN	USE
NS	10	BLACK TUPELO *Nyssa sylvatica*	2.5" CAL. 10' HT MIN.	B&B, STRAIGHT TRUNK FULL CROWN	USE
QS	11	SHUMARD OAK *Quercus shumardii*	2.5" CAL. 10' HT MIN.	B&B, STRAIGHT TRUNK FULL CROWN	USE
UNDERSTORY TREES (15)					
CC	15	CAROLINA SWEETHEART EASTERN REDBUD *Cercis canadensis 'NCCC1'*	2" CAL. MIN. 8' HT. MIN.	FULL CROWN MATCHED SPECIMENS	USE
SHRUBS (312)					
AK	24	KALEIDOSCOPE GLOSSY ABELIA *Abelia x grandiflora 'Kaleidoscope'*	18" HT.	#03 CONT., FULL SPACE AS SHOWN	USE
CA	57	AMERICAN BEAUTYBERRY *Callicarpa americana*	24" HT.	#03 CONT., FULL SPACE AS SHOWN	USE
IS	56	'SOUTHERN GENTLEMAN' WINTERBERRY *Ilex verticillata 'Southern Gentleman'*	24" HT.	#03 CONT., FULL SPACE AS SHOWN	USE
LN	18	CRIMSON FIRE FRINGE FLOWER *Loropetalum chinense 'Crimson Fire'*	18" HT.	#03 CONT., FULL SPACE AS SHOWN	USE
MA	60	DWARF SOUTHERN WAX MYRTLE *Morella cerifera 'Nana'*	24" HT.	#03 CONT., FULL SPACE AS SHOWN	USE
NP	40	FIREPOWER HEAVENLY BAMBOO *Nandina domestica 'Firepower'*	18" HT.	#03 CONT., FULL SPACE AS SHOWN	USE
NL	20	LEMON-LIME HEAVENLY BAMBOO *Nandina domestica 'Lemon-Lime'*	18" HT.	#03 CONT., FULL SPACE AS SHOWN	USE
VN	51	WINTERTHUR VIBURNUM *Viburnum nudum 'Winterthur'*	24" HT.	#03 CONT., FULL SPACE AS SHOWN	USE
YF	88	ADAM'S NEEDLE *Yucca filamentosa*	24" HT.	#03 CONT., FULL SPACE AS SHOWN	USE
		SOD	" " " "	SEE DETAIL SHEET C-8.01	

FOUNDATION PLANTING CALCULATION

STANDARD: 50% OF THE BUILDING FACING PUBLIC OR PRIVATE STREET

FOUNDATION PLANTING SIDE A
140LF / 2 = 70LF OF FOUNDATION PLANTING
PROVIDED: 85LF OF FOUNDATION PLANTING

FOUNDATION PLANTING SIDE B
112LF / 2 = 56LF OF FOUNDATION PLANTING
PROVIDED: 98LF OF FOUNDATION PLANTING

FOUNDATION PLANTING SIDE C
44LF / 2 = 22LF OF FOUNDATION PLANTING
PROVIDED: 44LF OF FOUNDATION PLANTING

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

75% OPACITY FROM GROUND LEVEL TO 6' IN HEIGHT

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

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

LANDSCAPE PLAN

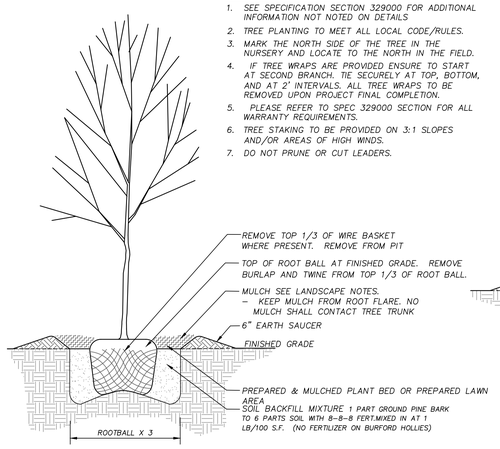
DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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.

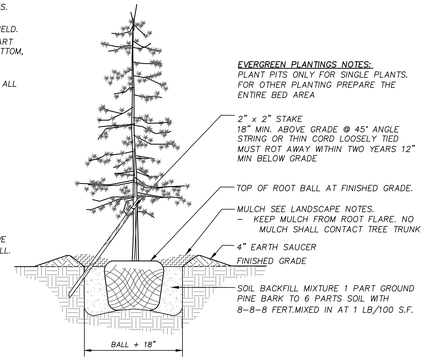
SHEET NUMBER:
C-6.01

TREE PLANTING NOTES:

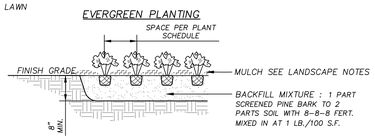
1. SEE SPECIFICATION SECTION 329000 FOR ADDITIONAL INFORMATION NOT NOTED ON DETAILS
2. TREE PLANTING TO MEET ALL LOCAL CODE/RULES.
3. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
4. IF TREE WRAPS ARE PROVIDED ENSURE TO START AT SECOND BRANCH. TIE SECURELY AT TOP, 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.



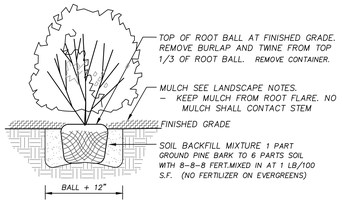
TREE PLANTING



EVERGREEN PLANTING

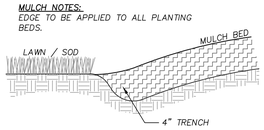


GROUNDCOVER PLANTING



SHRUB PLANTING

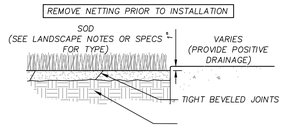
MULCH NOTES:
EDGE TO BE APPLIED TO ALL PLANTING BEDS.



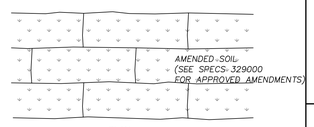
PLANTING BED EDGE

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.



SECTION

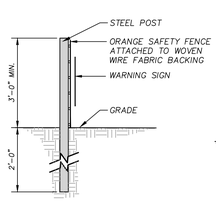


PLAN

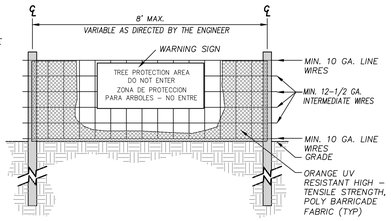
SOD INSTALLATION

PLANTING / LANDSCAPING DETAIL

N.T.S.



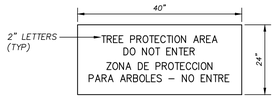
SIDE VIEW



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.

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 **RIVIERA 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 15–FT FROM BUILDING 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.

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.

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 RIVIERA BERMUDA	150 LBS/ACRE *
JULY 15 – AUG 15 (WATERING AT CONTRACTOR'S EXPENSE)	SUNSTAR OR RIVIERA 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.

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.

TURF, SOD AND SEEDBED PREPARATION:

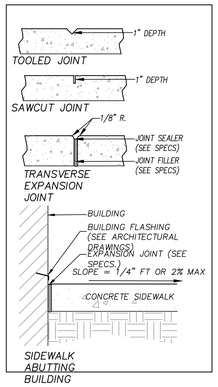
1. CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
2. DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON–SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL–SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE 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.

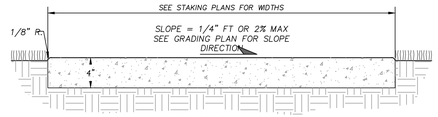
PLANTING / LANDSCAPING DETAIL

N.T.S.

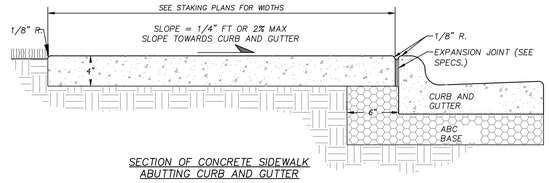
GENERAL NOTES:

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.

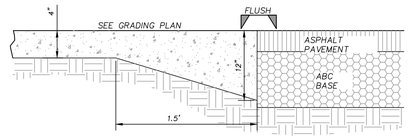




SECTION OF CONCRETE SIDEWALK



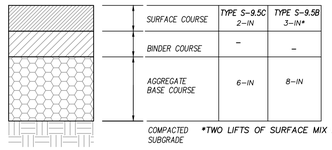
SECTION OF CONCRETE SIDEWALK ABUTTING CURB AND GUTTER



SECTION OF SIDEWALK ABUTTING PAVEMENT FLUSH

CONCRETE SIDEWALK

N.T.S.



	LIGHT DUTY ASPHALT	HEAVY DUTY ASPHALT
SURFACE COURSE	TYPE S–9.5C 2–IN	TYPE S–9.5B 3–IN*
BINDER COURSE	–	–
AGGREGATE BASE COURSE	6–IN	8–IN
COMPACTED SUBGRADE	*TWO LIFTS OF SURFACE MIX REQUIRED	

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.

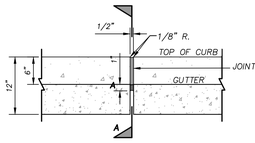
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

PAVEMENT SECTIONS

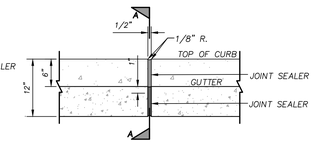
N.T.S.

CURB AND GUTTER NOTES:

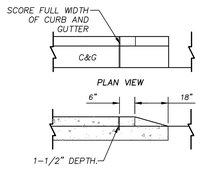
1. ALL CONCRETE SHALL BE **4,000 P.S.I. @ 28 DAYS**
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, SPACING MAY BE INCREASED TO 15' IF MACHINE IS USED.
3. CONTRACTION JOINTS SHALL BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, 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



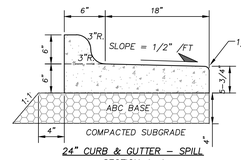
CONTRACTION JOINT



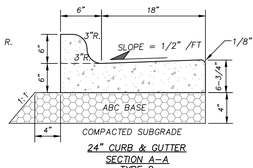
TRANSVERSE EXPANSION JOINT



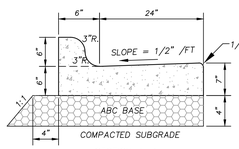
ENDING CURB AND GUTTER



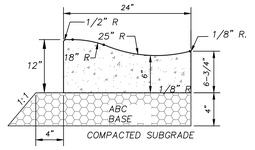
24" CURB & GUTTER – SPILL
SECTION A–A
TYPE 1



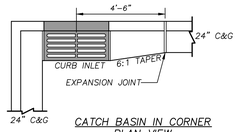
24" CURB & GUTTER
SECTION A–A
TYPE 2



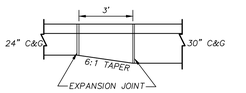
SECTION A–A
30" CURB & GUTTER



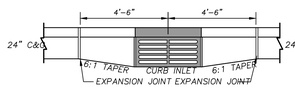
SECTION A–A
STANDARD ROLL CURB



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 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: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-8.01

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 PRIDE DEDICATION

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: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-8.02

ACCESSIBLE CURB RAMP

N.T.S.

ACCESSIBLE RAMP NOTES

RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITES 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%

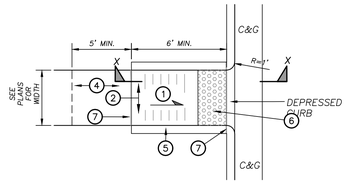
ALL RAMPS SHALL HAVE A 4' MIN. LANDING WITH A MAX SLOPE OF 2% WERE PEDESTRIANS PERFORM TURNING. ENSURE TO PITCH TOWARDS GUTTER.

DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

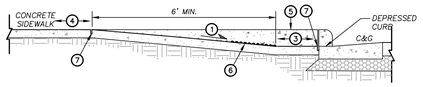
SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL INFORMATION.

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

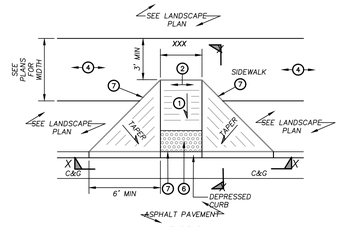
1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2%
3. 2% MAX IN ALL DIRECTIONS
4. 2% LANDING
5. 6" WIDE X 12" DEEP CURB (MONOLITH POUR IS ACCEPTABLE)
6. DETECTABLE WARNING DOME (SEE DETAIL)
7. 1/2" EXPANSION JOINT



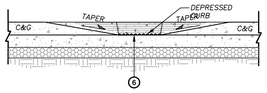
TYPE A



SECTION VIEW



TYPE B



SECTION VIEW

CONCRETE SIDEWALK

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.

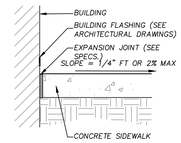
ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS.

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

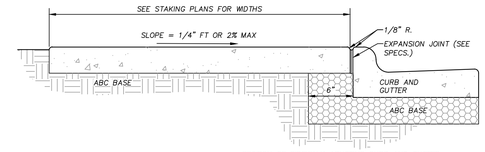
CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.

FINISH SHALL BE BROOM.

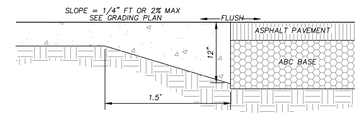
SIDEWALK THAT ABUTS BUILDINGS SHALL BE SET BELOW FLASHING AND BUILDING WEEPS. COORDINATED ELEVATIONS WITH CIVIL AND ARCHITECTURAL PLANS. NOTIFY DESIGN TEAM IN LOCATIONS WERE THIS OCCURS.



AREAS WHERE SIDEWALK ABUTS BUILDING



SECTION OF SIDEWALK ABUTTING CURB AND GUTTER



SECTION OF SIDEWALK ABUTTING PAVEMENT FLUSH

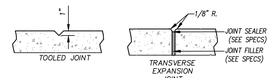
GENERAL NOTES:

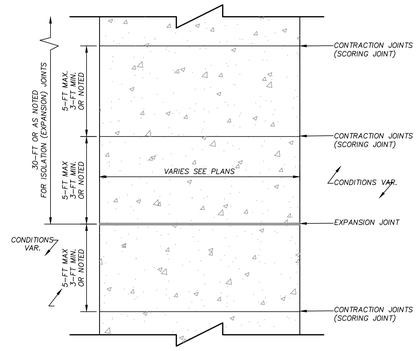
SEE SPEC SECTION 32 13 13 FOR ADDITIONAL CONCRETE INFORMATION.

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).

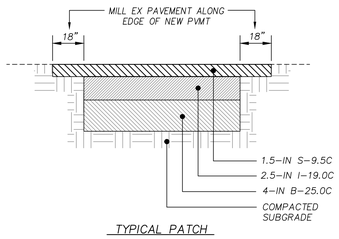
ISOLATION JOINTS (EXPANSION JOINTS) SHALL BE SET EVERY 30-FT INTERVALS OR AS NOTED ON THE PLANS.



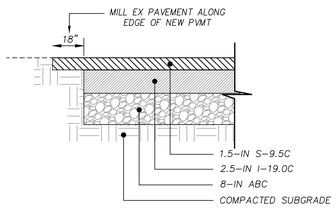


ASPHALT PATCH

N.T.S.



TYPICAL PATCH



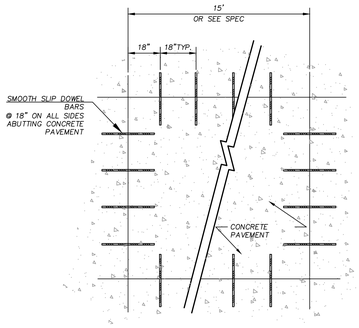
TYPICAL PAVEMENT SECTION

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.

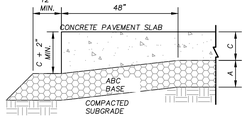
HEAVY DUTY CONCRETE PAVEMENT (FIRE STATIONS)

N.T.S.



PLAN VIEW
NTS

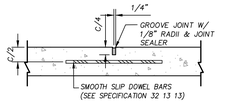
CONCRETE PAVEMENT DIMENSIONS – HEAVY DUTY	
CONC SLAB THICKNESS, C	8-IN
ABC THICKNESS, A	4-IN
DOWEL DIAMETER	SEE SPECS



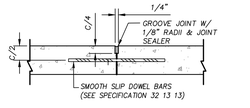
TYPICAL THICKENED EDGE
NTS

NOTES:

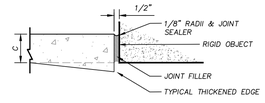
1. ALL CONCRETE SHALL BE OF NCDOT TYPE AA PORTLAND CEMENT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI (ASTM C39).
2. CONTRACTION JOINTS SHALL BE PLACED PER SPECIFICATION 32 13 13.
3. ISOLATION JOINTS SHALL BE PLACED WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
4. JOINTS IN CURB & GUTTER 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

ACCESSIBLE PARKING

N.T.S.

ACCESSIBLE PARKING NOTES:

RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITES 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.

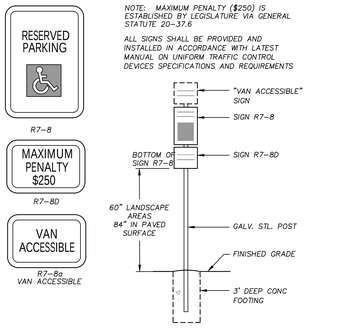
ALL DIMENSIONS ARE FROM FACE OF CURB

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.

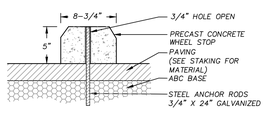
1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2%
3. 2% MAX IN ALL DIRECTIONS
4. 2% LANDING
5. 6" WIDE X 12" DEEP CURB (MONOLITH POUR IS ACCEPTABLE)
6. DETECTABLE WARNING DOME (SEE DETAIL)
7. 1/2" EXPANSION JOINT



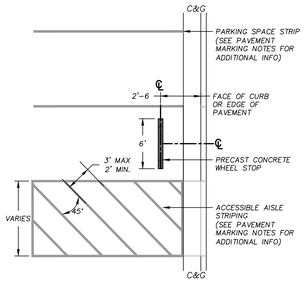
NOTE: MAXIMUM PENALTY ($250) IS ESTABLISHED BY LEGISLATURE VIA GENERAL STATUTE 20-37.6

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

COLLAPSIBLE BOLLARD

N.T.S.

MBR-1600-00008
Legacy # SCBR1600-S

1600 SERIES

Sustainability Facts

Unit Size	One (1) MBR-1600-00008 Bike Rack
Carbon footprint (GWP) *Measured in kilograms of carbon dioxide equivalent*	180 kg CO2-Eq
Total energy use (TPE) *Measured in megajoules of energy equivalent*	3130 Mj-Eq
Wastor 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	

Visit EPD use tbe referenced for more information
https://www.epdhub.gaterstein.com/maglin

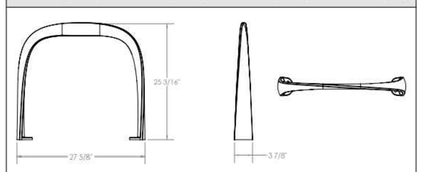
DESCRIPTION: 1600 Series - SC Bike Rack: Cast Aluminum, Surface Mount, 2 Bike Configuration

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.

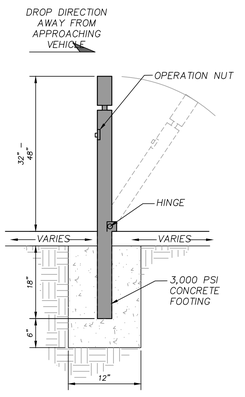
TO SPECIFY: Select MBR-1600-00008
Choose:
- Powdercoat Color

HEIGHT: 25.19" (63.95cm) LENGTH: 27.62" (70.17cm) WIDTH: 3.375" (8.375cm) WEIGHT: 18.3lbs (8.3kg)



MAGLIN Site Furniture
T 800 796 9908
F 877 282 8359
sales@maglin.com
sales@maglin.com

- All drawings, specifications, design and details on this page remain the property of Maglin Site Furniture Inc. and may not be used without Maglin authorization.
- Details and specifications may vary due to continuing improvements of our products.



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.

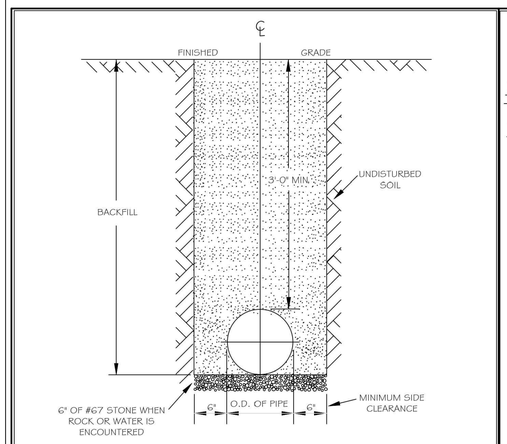
BOLLARD SHALL BE OPERATED BY APPLYING TORQUE TO A HYDRANT-TYPE NUT WHICH LIFTS A SPRING LOADED LOCKING PIN ALLOWING THE BOLLARD TO COLLAPSE AT ITS HINGE. THE SPRING LOADED PIN SHALL AUTOMATICALLY RESEAT AND LOCK WHEN THE BOLLARD IS REPLACED IN THE UPRIGHT POSITION (WITH NO WRENCH NEEDED).

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.

CITY OF RALEIGH - STANDARD UTILITY NOTES

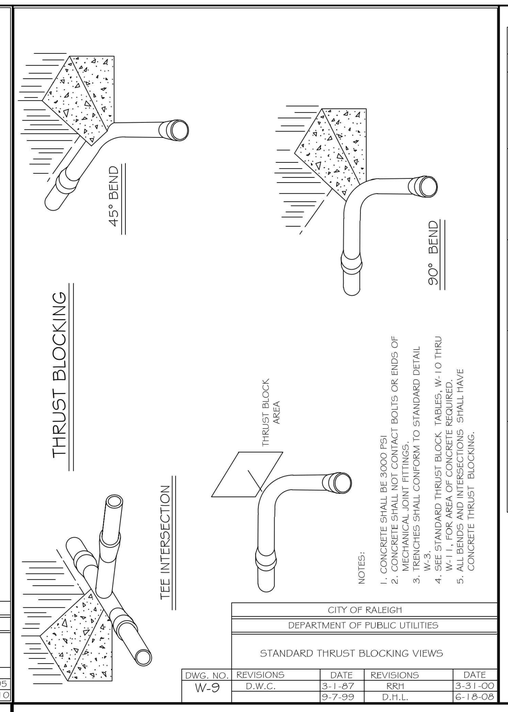
1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   - 2.1. A) A DISTANCE OF 100'SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC 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. TRENCHES 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 BENDS AND INTERSECTIONS 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.	3-1-87	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

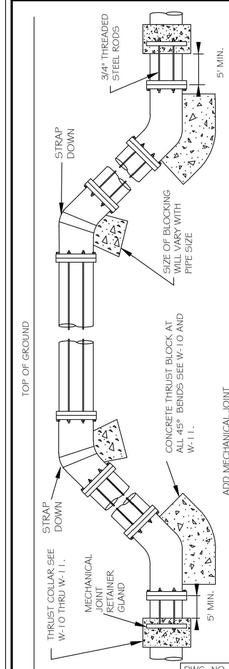
ALL AREAS GIVEN IN SQUARE FEET

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	



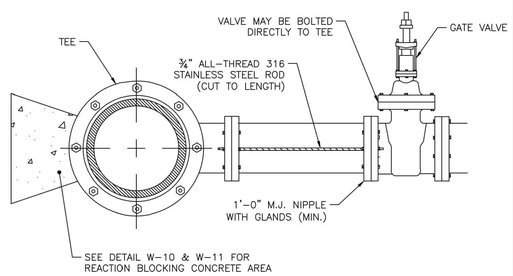
ROD REQUIREMENTS

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 3/4" 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		



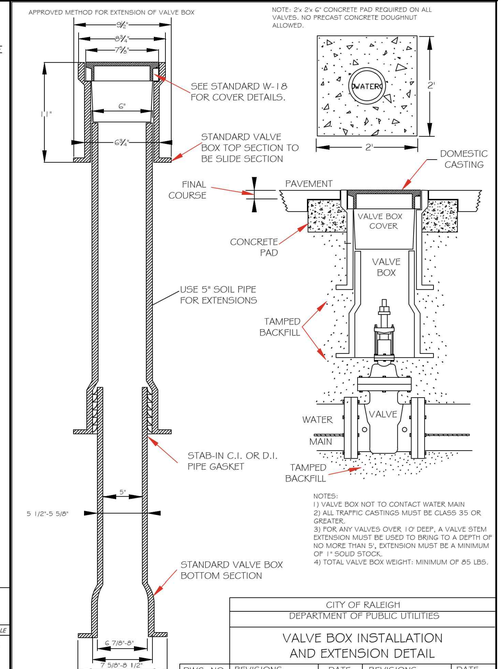
ROD REQUIREMENTS

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 3/4" 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

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 PRIDE DEDICATION

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

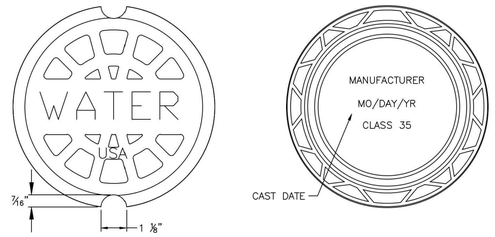
ROLESVILLE, NC 27571

UTILITY DETAILS

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

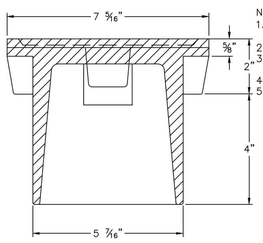
THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR PART. IT SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN TO ANY OTHER COMPANY OR AGENCY WITHOUT THE CONSENT OF ADW ARCHITECTS, P.A.

SHEET NUMBER:
C-9.01



PLAN VIEW

BOTTOM VIEW

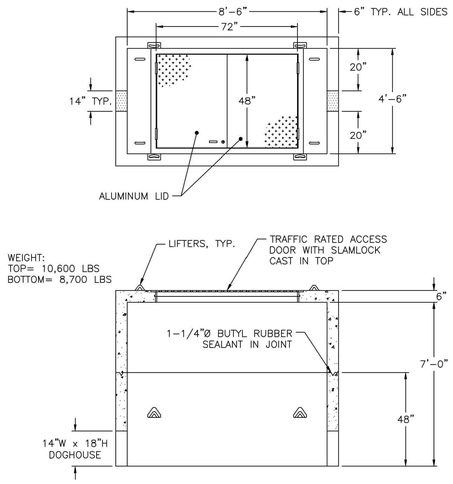


SECTION VIEW

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

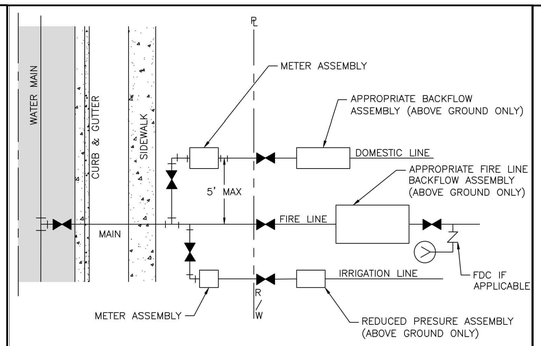
REVISIONS	DATE: 01/18/2025 NOT TO SCALE
	5 ¼" VALVE BOX DROP LID WITH 4" SKIRT
	W-18



NOTES:
1. REINFORCEMENT: #4 @ 6" O.C.E.W.
2. CONCRETE: 4,000 PSI @ 28 DAYS.
3. 6" OF #67 STONE SHALL BE PLACED IN BOTTOM OF VAULT.
4. METER FLANGE SHALL BE PLACED 49" BELOW FINISHED GRADE.
5. HEIGHT ADJUSTMENTS ALLOWED BY PRECAST RISERS OR BRICK AND MORTAR. DRY STACKING OF BLOCK IS NOT ALLOWED.

CITY OF RALEIGH
STANDARD DETAIL

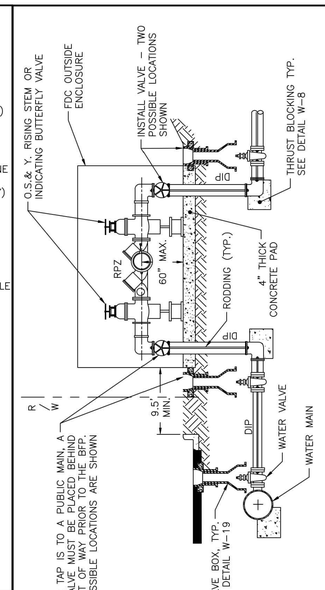
REVISIONS	DATE: 01/18/2025 NOT TO SCALE
	TYPICAL 6" THRU 10" WATER METER VAULT
	W-33



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

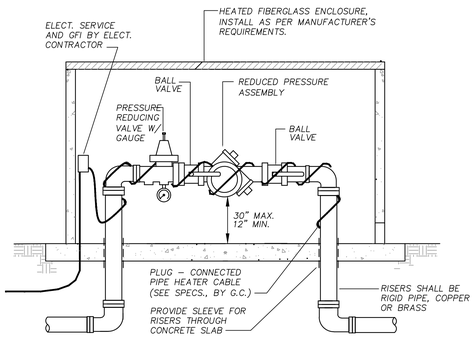
REVISIONS	DATE: 01/18/2025 NOT TO SCALE
	FIRE, DOMESTIC & IRRIGATION OPTIONS SCHEMATIC
	W-34



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 WHETHER SHUT OR OPEN SHALL BE INSTALLED 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 RP ASSEMBLIES THAT ARE REMOVED TO PREVENT FREEZING WILL NOT BE REPLACED UNTIL 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.

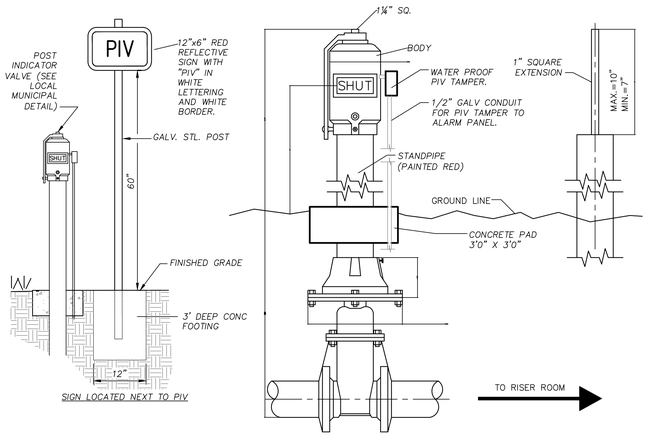
CITY OF RALEIGH
STANDARD DETAIL

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



NOTES:
1. REDUCED PRESSURE ASSEMBLY SHALL BE WILKINS MODEL 975XL2 OR APPROVED EQUAL. ALL BACKFLOW PREVENTERS SHALL BE AS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
2. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS OF BACKFLOW PREVENTER, VALVES, ENCLOSURE, ETC.
3. HEATER AND POWER CORD BY G.C.., SEE SPECIFICATIONS INSTALL PER MANUFACTURES INSTRUCTIONS.

REDUCED PRESSURE ASSEMBLY IN HEATED ENCLOSURE N.T.S.



FIELD ADJUSTMENT INSTRUCTIONS

1. REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
2. CUT THE REQUIRED LENGTH OFF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH STANDPIPE GROUND LINE MARK.
3. CUT THE 1" SQ. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
4. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
5. RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
6. ALL PIV(s) SHALL BE INSTALLED WITH AN ELECTRONICALLY CONTROLLED TAMPER SWITCH.

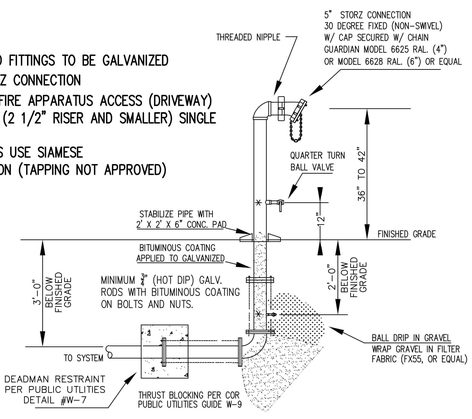
NOTE:

POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 40-ft FROM BUILDING

POST INDICATOR VALVE DETAIL N.T.S.

TYPICAL NOTES:

1)-ALL EXPOSED PIPING AND FITTINGS TO BE GALVANIZED WITH EXCEPTION OF STORZ CONNECTION
2)-40' MAX. FROM FDC TO FIRE APPARATUS ACCESS (DRIVEWAY)
3)-FOR NFPA 13R SYSTEMS (2 1/2" RISER AND SMALLER) SINGLE FDC
4)-FOR HIGH RISE BUILDINGS USE SIAMESE
5)-AN APPROVED CONNECTION (TAPPING NOT APPROVED)



CITY OF RALEIGH FIRE DEPARTMENT
FIRE PROTECTION DIVISION
310 WEST MARTIN ST. RALEIGH, NC 27602

DESCRIPTION:	REVISIONS:	DATE:	DRAWING NO.
YARD FDC DETAIL REQUIREMENTS	5-1-2017	5/1/06	FP-15

CITY OF RALEIGH WATER DETAILS 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 DEDICATION PRIDE DEPT

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

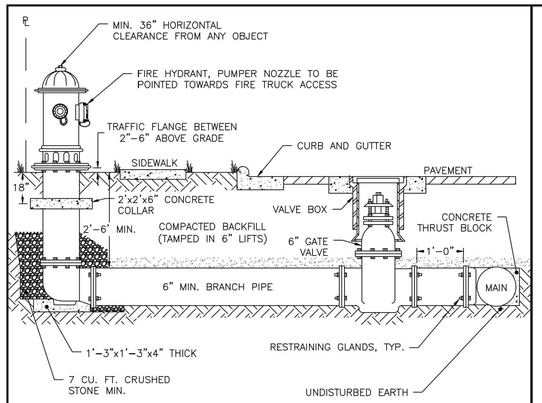
ROLESVILLE, NC 27571

UTILITY DETAILS

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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.

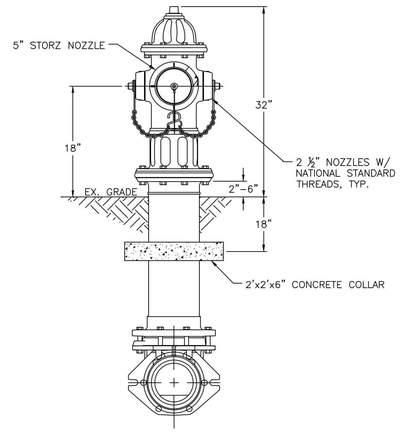
SHEET NUMBER:
C-9.02



NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY OR CLOW.
2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150.
3. 6" GATE VALVE SHALL BE AWWA C500 OPEN LEFT.
4. RODS AND BOLTS SHALL BE ¾" 316 STAINLESS STEEL.
5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION.
6. RODS SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR CAGE SHALL BE INSTALLED NO MORE THAN 10' FROM HYDRANT AND POURED IN CONCRETE.
7. FIRE HYDRANTS TO BE LOCATED IN ROW OR 2.5 FOOT EASEMENT (ON ALL SIDES OF HYDRANT) FOOT EASEMENT ADJACENT TO ROW.
8. ANYTIME SITE WORK, CONSTRUCTION, ROAD WORK, OR ANY OTHER WORK CHANGES THE GRADE OF THE FIRE HYDRANT, THE PERSON RESPONSIBLE FOR THE WORK IS RESPONSIBLE FOR ADJUSTING THE FIRE HYDRANT TO STAY WITHIN COMPLIANCE.

CITY OF RALEIGH
STANDARD DETAIL

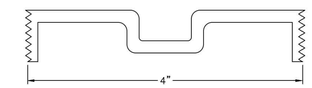
REVISIONS	DATE: 01/18/2025 NOT TO SCALE
	STANDARD FIRE HYDRANT INSTALLATION (RESTRAINT GLANDS)
	W-4



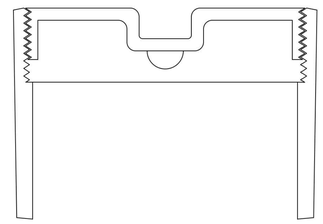
NOTES:
1. ALL PUBLIC FIRE HYDRANTS IN THE CITY OF RALEIGH AND THE MERGER TOWNS OF GARNER, ROLESVILLE, WAKE FOREST, KNIGHTDALE, WENDELL AND ZEBULON SHALL BE PAINTED CHROME YELLOW WITH HIGH REFLECTIVE ALUMINUM SILVER CAPS, BONNETS AND OPERATING NUTS.
2. ALL PRIVATE FIRE HYDRANTS SHALL BE RED.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025 NOT TO SCALE
	STANDARD FIRE HYDRANT WITH 5" STORZ PUMPER NOZZLE
	W-5



STANDARD 4" BRONZE CLEANOUT PLUG



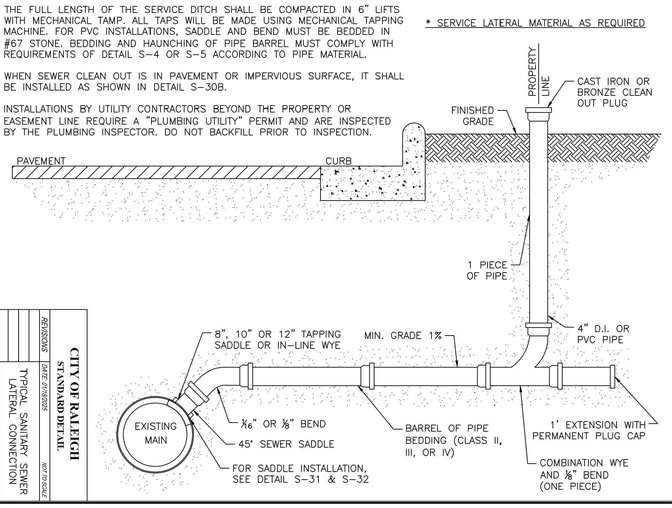
CLEANOUT FERRULE WITH PLUG

STYLES ACCEPTED:
INVERTED NUT
RAISED NUT

CITY OF RALEIGH
STANDARD DETAIL

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

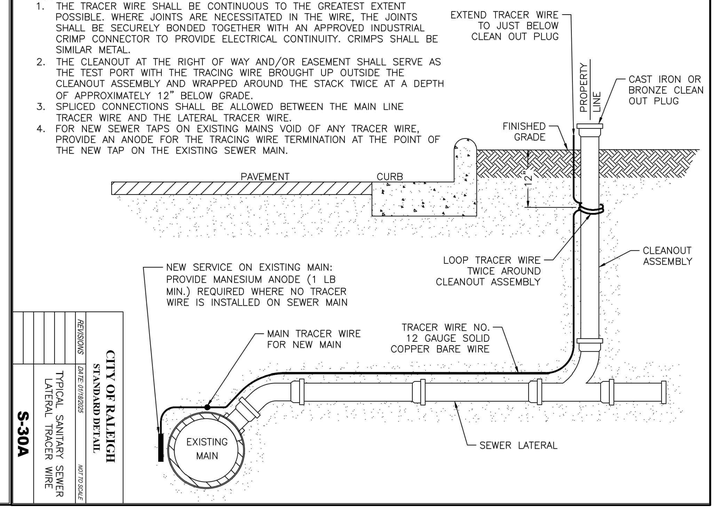
NOTES:
1. THE FULL LENGTH OF THE SERVICE DITCH SHALL BE COMPACTED IN 6" LIFTS WITH MECHANICAL TAMP. ALL TAPS WILL BE MADE USING MECHANICAL TAPPING MACHINE. FOR PVC INSTALLATIONS, SADDLE AND BEND MUST BE BEDDED IN #67 STONE. BEDDING AND HAUNCHING OF PIPE BARREL MUST COMPLY WITH REQUIREMENTS OF DETAIL 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.



CITY OF RALEIGH
STANDARD DETAIL

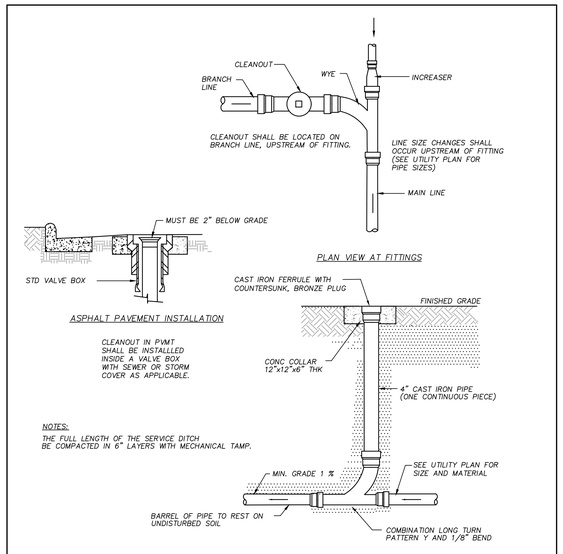
REVISIONS	DATE: 01/18/2025 NOT TO SCALE
	TYPICAL SANITARY SEWER LATERAL CONNECTION
	S-30

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.



CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025 NOT TO SCALE
	TYPICAL SANITARY SEWER LATERAL TRACER WIRE
	S-30A



STANDARD CLEANOUT N.T.S.

CITY OF RALEIGH & STANDARD FIRE HYDRANT & SEWER DETAILS 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

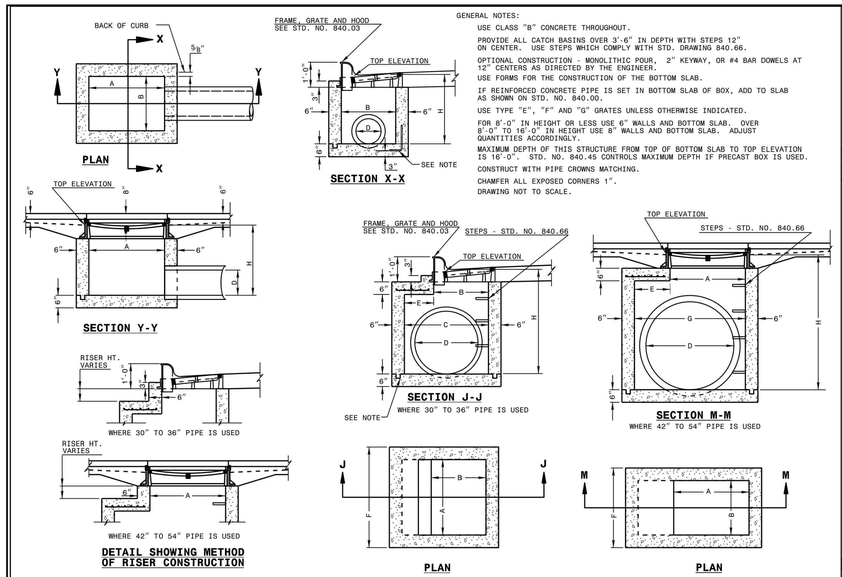
ROLESVILLE, NC 27571

UTILITY DETAILS

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-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.

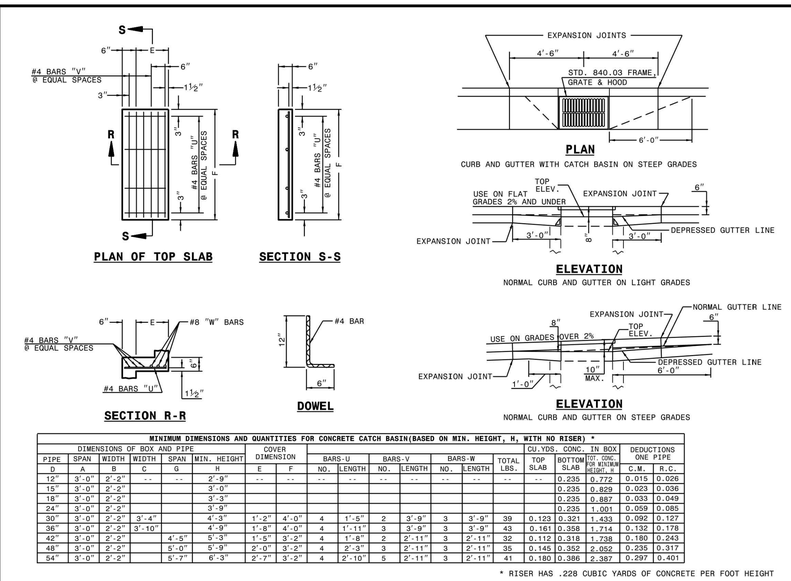
CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.

1-24 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

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) *

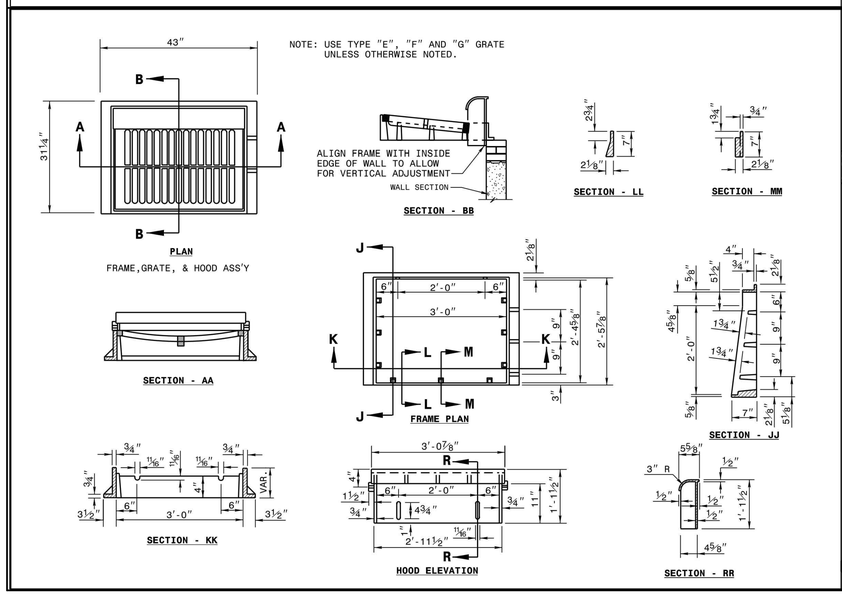
DIMENSIONS OF BOX AND PIPE						COVER DIMENSION		BARS-U		BARS-V		BARS-W		TOTAL LBS.	CU.YDS. CONC. IN BOX		DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		TOP SLAB	BOTTOM SLAB	TOT. CONC. FOR MINIMUM HEIGHT, H	C.M.	R.C.
D	A	B	C	G	H	E	F												
12"	3'-0"	2'-2"	--	--	2'-9"	--	--	--	--	--	--	--	--	--	--	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

1-24 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

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

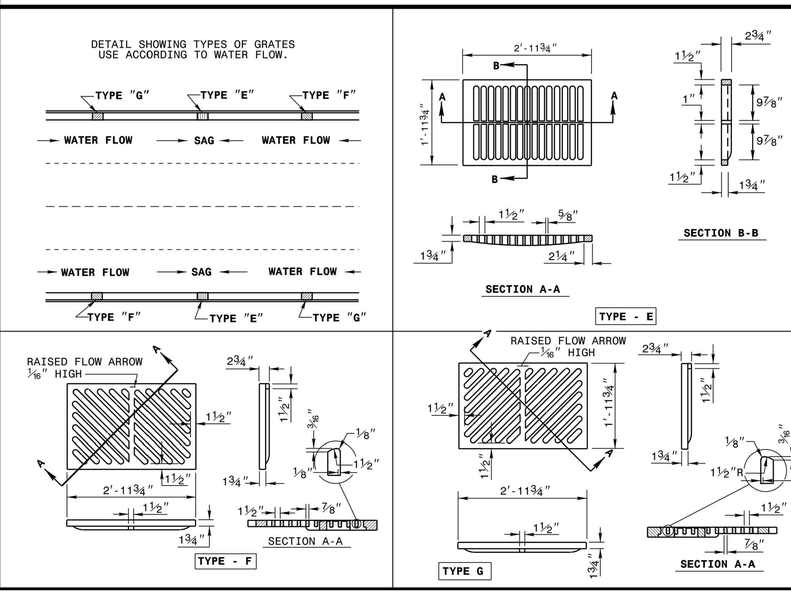
SHEET 2 OF 2
840.02



1-24 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

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

SHEET 1 OF 2
840.03



1-24 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

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

SHEET 2 OF 2
840.03

CATCH BASIN DETAIL *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

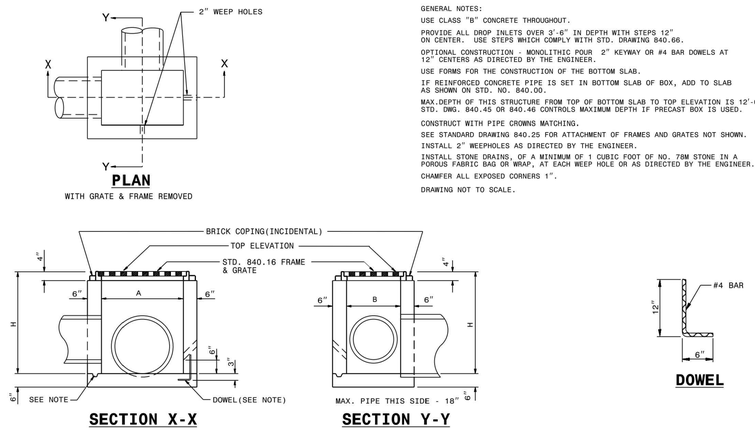
ROLESVILLE, NC 27571

UTILITY DETAILS

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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-9.04



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.

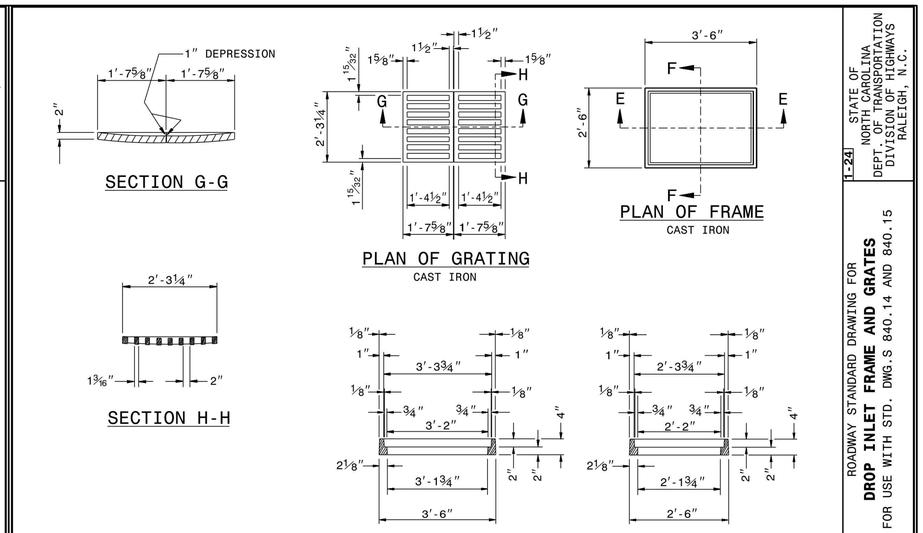
DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)								
DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONC. IN BOX			DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	TOTAL CONCRETE (MINIMUM HEIGHT, H)	C.M.	R.C.
D	A	B	H					
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	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



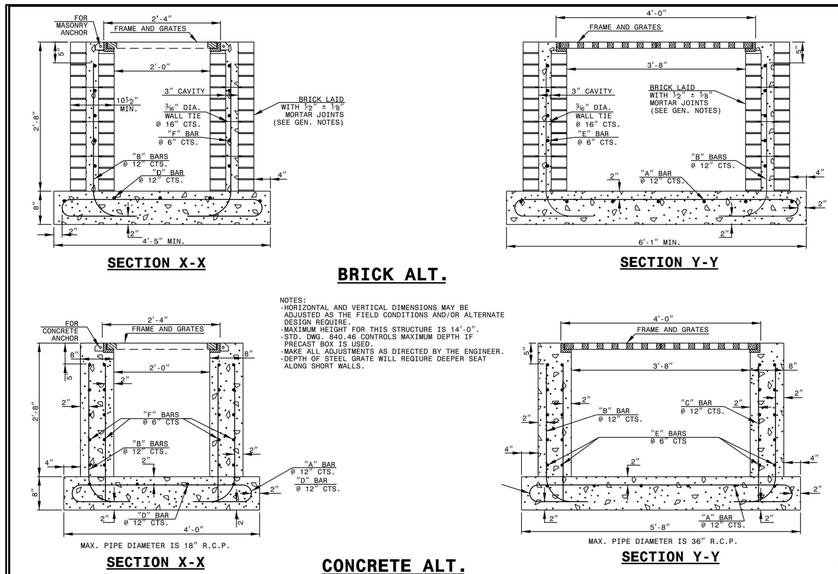
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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.*



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.

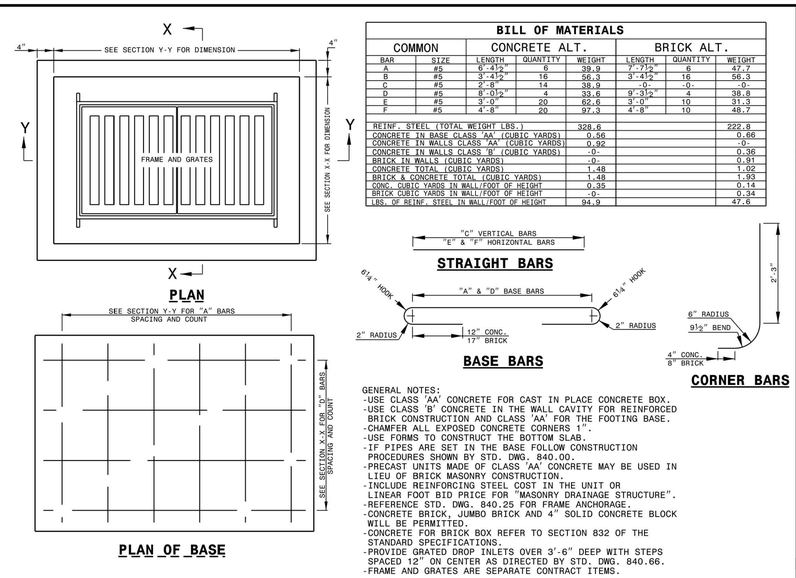
NOTE: SEE DETAIL 840.03 FOR CATCH BASIN GRATE DETAIL

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



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 (BRIC YARDS)				1.48			1.02
BRICK & CONCRETE TOTAL (CUBIC YARDS)				1.48			1.93
CONC. CUBIC YARDS IN WALL/FOOT OF HEIGHT				0.35			0.14
BRICK CUBIC YARDS IN WALL/FOOT OF HEIGHT				-0-			0.34
LBS. OF REINF. STEEL IN WALL/FOOT OF HEIGHT				94.9			47.6

GENERAL NOTES:
-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

DOUBLE INLET DETAIL *N.T.S.*

STORMWATER DETAILS *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

UTILITY DETAILS

DATE: 08-19-2026
PROJECT NO: 24032
CLH PROJECT NO: 25-127

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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.

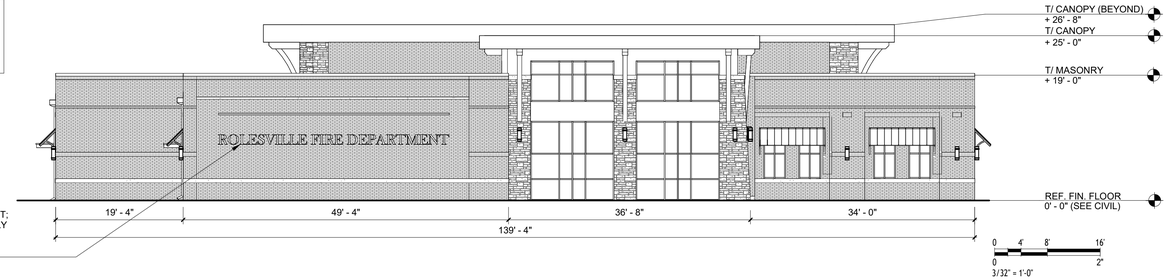
SHEET NUMBER:
C-9.05

NOTE:
PUBLIC SAFETY USES INCLUDED IN GOVERNMENT FACILITY USES ARE EXEMPT FROM MEETING THE TRANSPARENCY REQUIREMENTS PER LDO 6.8.2.D.2

NOTE:
FACADE FACES PUBLIC STREET/R.O.W. SO COMPLIANCE WITH LDO 6.8.2 IS REQUIRED

MATERIALS:

FACADE AREA = 2,875 SF
MASONRY/STONE AREA = 2,045 SF
71% OF TOTAL FACADE AREA
IN COMPLIANCE W/ 60% MIN.



SIGNAGE UNDER SEPARATE PERMIT;
FOR ILLUSTRATIVE PURPOSES ONLY
139'-4" BUILDING FRONTAGE
140 SF SIGN AREA ALLOWED
53 SF SIGN INDICATED

WEST ELEVATION 3/32" = 1'-0" 4

NOTE:
PUBLIC SAFETY USES INCLUDED IN GOVERNMENT FACILITY USES ARE EXEMPT FROM MEETING THE TRANSPARENCY REQUIREMENTS PER LDO 6.8.2.D.2

NOTE:
FACADE FACES PUBLIC STREET/RO.W. SO COMPLIANCE WITH LDO 6.8.2 IS REQUIRED

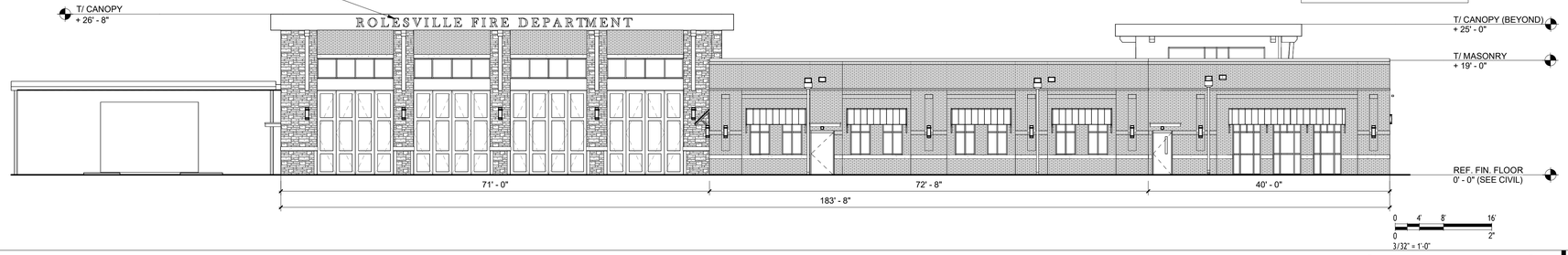
SIGNAGE UNDER SEPARATE PERMIT;
FOR ILLUSTRATIVE PURPOSES ONLY
183'-8" BUILDING FRONTAGE
184 SF SIGN AREA ALLOWED
65 SF SIGN INDICATED

SIGNAGE UNDER SEPARATE PERMIT;
FOR ILLUSTRATIVE PURPOSES ONLY
200 SF TOTAL SIGN AREA ALLOWED
198 SF TOTAL SIGN AREA INDICATED

T/ CANOPY
+ 26' - 8"

MATERIALS:

FACADE AREA = 4,059 SF
MASONRY/STONE AREA = 2,441 SF
60% OF TOTAL FACADE AREA
IN COMPLIANCE W/ 60% MIN.



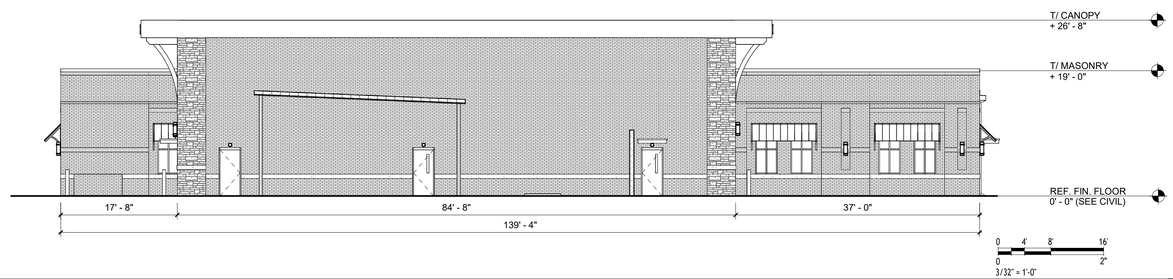
NORTH ELEVATION 3/32" = 1'-0" 3

LDO 6.8.2.D DESIGN STANDARDS COMPLIANCE:

1. FACADES:
   a. VERTICAL MASS: NOT APPLICABLE W/ ONE STORY BUILDING
   b. ROOF LINES: NOT APPLICABLE W/ GOVERNMENT FACILITY USES
   c. HORIZONTAL MASS: NOT APPLICABLE W/ BUILDINGS LESS THAN 35' IN HEIGHT.
   d. WALL OFFSETS: FACADES OF 60 FEET OR GREATER IN WIDTH SHALL INCORPORATE WALL OFFSETS OF AT LEAST ONE FOOT OF DEPTH (" MINIMUM OF EVERY 40 FEET)
   e. REPEATING DESIGN PATTERNS: IN COMPLIANCE
2. TRANSPARENCY: NOT APPLICABLE W/ PUBLIC SAFETY USES INCLUDED IN GOVERNMENT FACILITY USES.
3. BUILDING BLANK WALL AREA: MAXIMUM CONTINUOUS BLANK WALL AREA FOR ANY BUILDINGS IN BUSINESS, INDUSTRY, AND TECHNOLOGY (BT) DISTRICTS SHALL BE A MAXIMUM OF 100 LINEAR FEET. SEE DIMENSIONAL FLOOR PLAN IN CONJUNCTION W/ EXTERIOR ELEVATIONS FOR COMPLIANCE VERIFICATION.
4. MATERIALS: AT LEAST 60% OF THE FACADE FACING A PUBLIC OR PRIVATE STREET SHALL BE BRICK OR STONE (OR A COMBINATION). REFER TO CALCULATIONS ON APPLICABLE ELEVATIONS FOR COMPLIANCE VERIFICATION.
5. COLORS: SPECIFIED EXTERIOR FINISH MATERIALS ARE IN LOW REFLECTANCE EARTH TONES, MUTED, SUBTLE, OR NEUTRAL COLORS.
6. MINIMUM DESIGN ITEMS:
   a. A CHANGE IN PLANE
   b. COMPLEMENTARY CHANGE IN MATERIAL OR TEXTURE
   c. COMPLEMENTARY CHANGE IN COLOR
   d. DIFFERING BUILDING SETBACKS OR PROJECTIONS

NOTE:
PUBLIC SAFETY USES INCLUDED IN GOVERNMENT FACILITY USES ARE EXEMPT FROM MEETING THE TRANSPARENCY REQUIREMENTS PER LDO 6.8.2.D.2

NOTE:
FACADE ADJACENT TO RESIDENTIALLY ZONED PROPERTY SO COMPLIANCE WITH LDO 6.8.2 IS REQUIRED



EAST ELEVATION 3/32" = 1'-0" 2

BUILDING ENTRANCE:
VARIATION IN BUILDING HEIGHT AND ARCHITECTURAL DETAILS

NOTE:
PUBLIC SAFETY USES INCLUDED IN GOVERNMENT FACILITY USES ARE EXEMPT FROM MEETING THE TRANSPARENCY REQUIREMENTS PER LDO 6.8.2.D.2

NOTE:
FACADE FACES PUBLIC STREET/RO.W. SO COMPLIANCE WITH LDO 6.8.2 IS REQUIRED

SIGNAGE UNDER SEPARATE PERMIT;
FOR ILLUSTRATIVE PURPOSES ONLY
183'-8" BUILDING FRONTAGE
184 SF SIGN AREA ALLOWED
65 SF + 15 SF = 80 SF SIGNS INDICATED

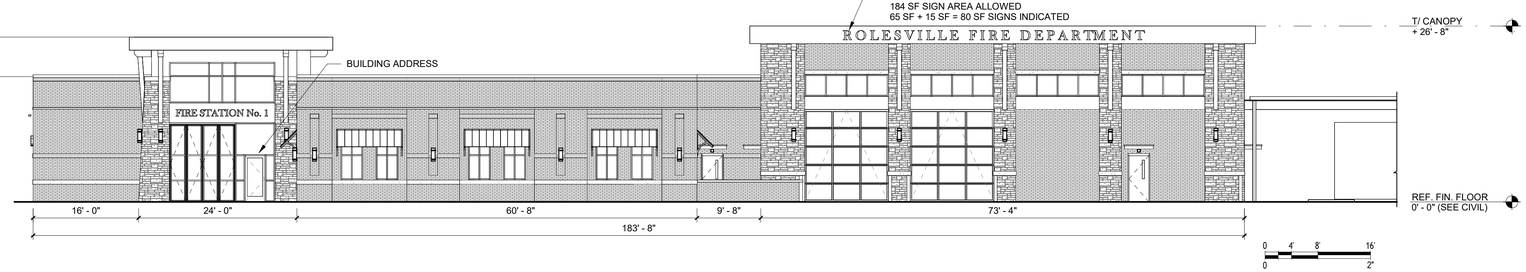
T/ ENTRY CANOPY
+ 25' - 0"

T/ MASONRY
+ 19' - 0"

BUILDING ADDRESS

MATERIALS:

FACADE AREA = 4,219 SF
MASONRY/STONE AREA = 2,759 SF
65% OF TOTAL FACADE AREA
IN COMPLIANCE W/ 60% MIN.



SOUTH ELEVATION 3/32" = 1'-0" 1

adwarchitects
environments for life
architecture planning interiors
2815 COLISEUM CENTRE DRIVE
SUITE 500
CHARLOTTE, NORTH CAROLINA 28217
P704.379.1919
F704.379.1920
www.adwarchitects.com

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC
27571

EXTERIOR ELEVATIONS

DATE: 07/31/26
PROJECT NO: 24032

REVISIONS

NO:	DATE:	DESCRIPTION:

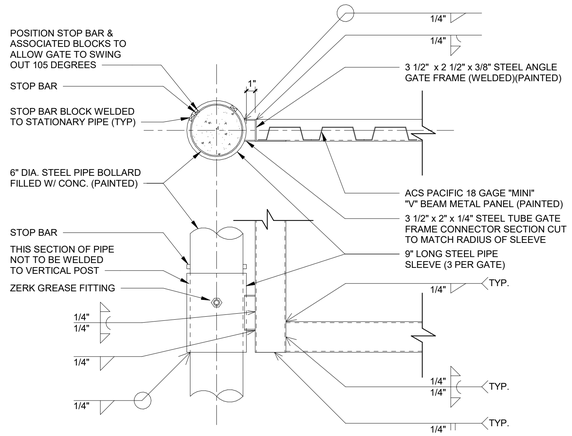
THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, PA. AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR PART. IT SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN TO ANY OTHER COMPANIY OR AGENCY WITHOUT THE CONSENT IF ADW ARCHITECTS, PA.

SEAL:

SHEET NUMBER:

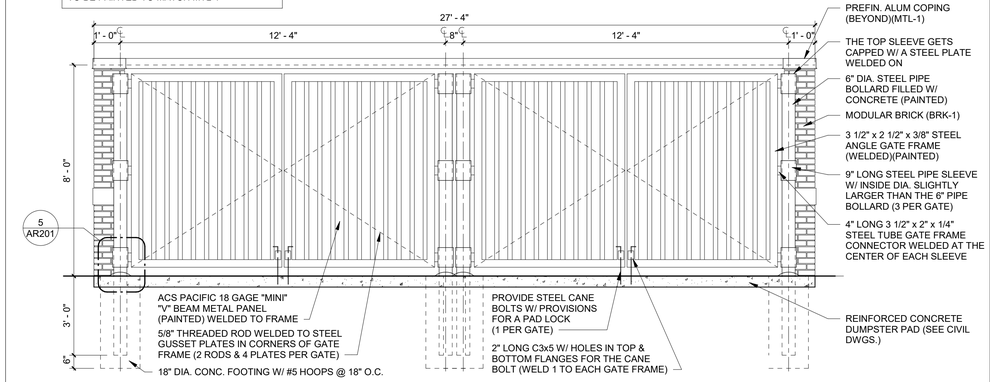
AR200

8/13/2026 11:11:08 AM

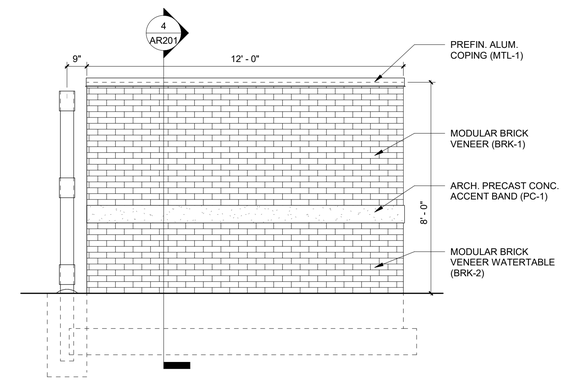


SLEEVE/HINGE DETAIL | 1 1/2" = 1'-0" | 5

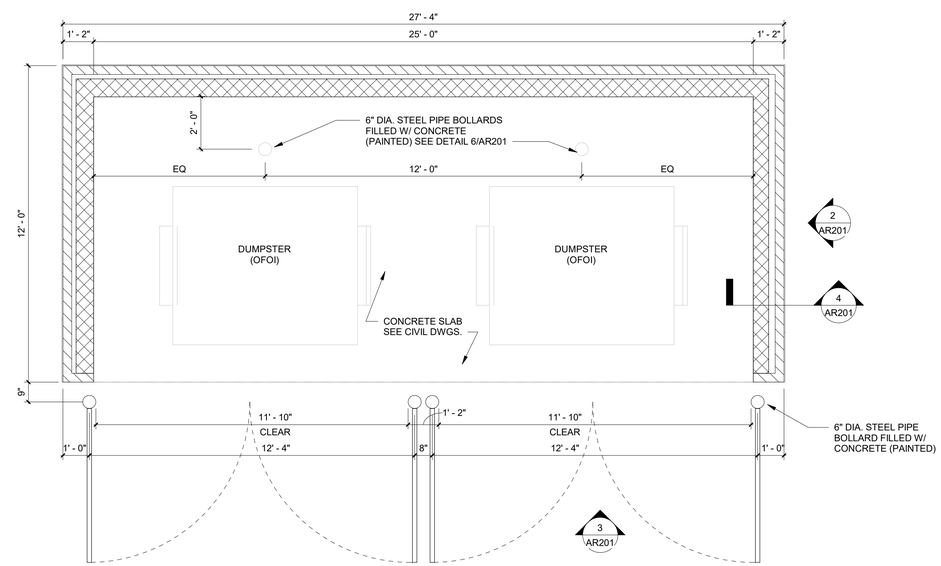
NOTE:
DUMPSTER ENCLOSURE GATES & BOLLARDS TO BE PAINTED TO MATCH MTL-1



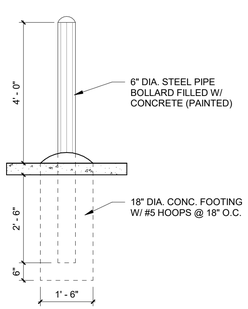
DUMPSTER FRONT ELEVATION | 3/8" = 1'-0" | 3



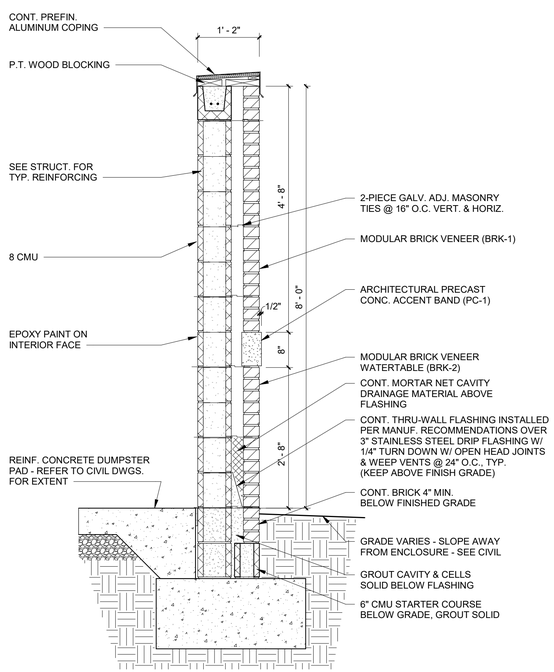
DUMPSTER SIDE ELEVATION | 3/8" = 1'-0" | 2



DUMPSTER ENCLOSURE PLAN | 3/8" = 1'-0" | 1



BOLLARD DETAIL | 1/2" = 1'-0" | 6



WALL SECTION @ ENCLOSURE | 3/4" = 1'-0" | 4

adwarchitects
environments for life
architecture planning interiors
2815 COLISEUM CENTRE DRIVE
SUITE 500
CHARLOTTE, NORTH CAROLINA 28217
P 704.379.1919
F 704.379.1920
www.adwarchitects.com

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

DUMPSTER ENCLOSURE DETAILS

DATE: 08/14/26
PROJECT NO: 24032
REVISIONS

NO:	DATE:	DESCRIPTION:

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

SEAL:

SHEET NUMBER:

AR201

ALTERNATE LEGEND (0)

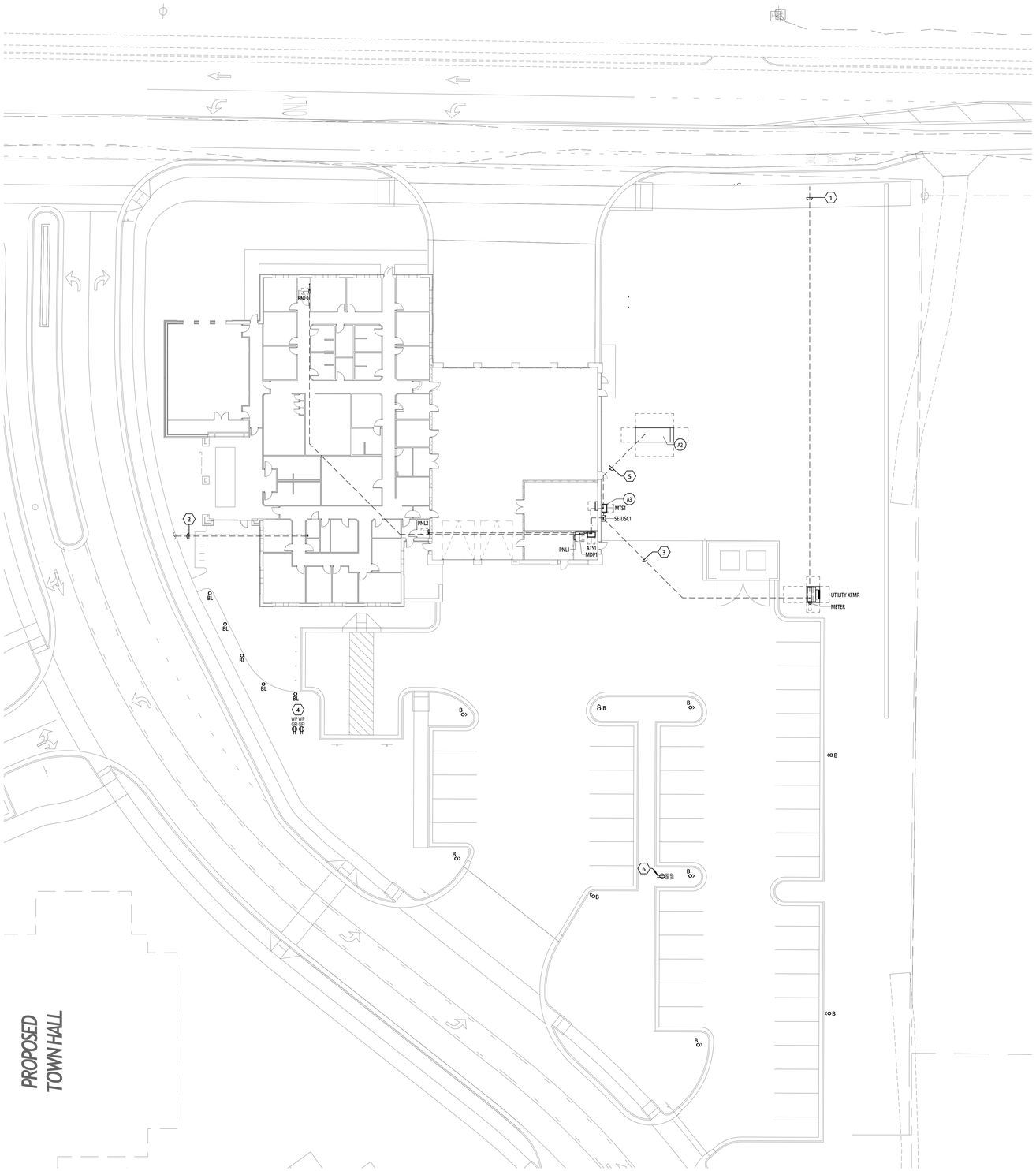
A2	NATURAL GAS GENERATOR IN LIEU OF DIESEL GENERATOR.
A3	PROVIDE MANUAL TRANSFER SWITCH AND ALL ASSOCIATED WIRING AND CONDUIT FOR A FULLY FUNCTIONAL SYSTEM.

GENERAL NOTES - SITE PLAN

A.	REFER TO E001 FOR LEGENDS, SYMBOLS, AND ABBREVIATIONS.
B.	REFER TO E002 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
C.	ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.
D.	ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.
E.	ALL LOW VOLTAGE CONDUIT RUNS SHALL HAVE HAND HOLES/PULL BOXES SUPPLIED AT 150' INTERVALS UNLESS OTHERWISE INDICATED BY LOCAL UTILITY. MINIMUM SIZE SHALL BE 36" X 36".

KEYNOTE LEGEND (0)

1	PROVIDE CONDUITS PER UTILITY REQUIREMENTS FOR NEW ELECTRICAL SERVICE. COORDINATE WITH LOCAL UTILITY FOR TRANSFORMER LOCATION AND TRENCHING PATH. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
2	PROVIDE (2) 4"C FROM MAIN HEAD END (IT) ROOM TO PROPERTY LINE FOR COMMUNICATION SERVICE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY AND IT ROOM LAYOUT BEFORE INSTALLATION.
3	PROVIDE SERVICE FEEDER DUCTBANK FROM SECONDARY SIDE OF UTILITY TRANSFORMER TO MAIN SERVICE DISCONNECT (SE-DSC1). REFER TO RISER DIAGRAM FOR MORE INFORMATION.
4	PROVIDE RECEPTACLES FOR HOT BOX HEATER POWER. COORDINATE EXACT LOCATIONS WITH CIVIL PLANS. COORDINATE QUANTITY OF FIRE SERVICE BACKFLOW DEVICES WITH CIVIL PLANS.
5	PROVIDE GENERATOR FEEDER DUCTBANK FROM MANUAL TRANSFER SWITCH (MTS1) TO GENERATOR (GEN1). REFER TO RISER DIAGRAM FOR MORE INFORMATION. (ALTERNATE A3)
6	PROVIDE RECEPTACLE ON UNISTRUT AT LOCATION SHOWN. BOTTOM OF RECEPTACLE 2' FROM GRADE.



1 ELECTRICAL SITE PLAN
1" = 20'-0"

TRUE NORTH PROJECT NORTH

8/14/2026 12:54:33 PM

THIS DRAWING IS AN INSTRUMENT OF SERVICE. THE DRAWING AND THE INFORMATION THEREON IS THE PROPERTY OF OPTIMA ENGINEERING, P.A. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF OPTIMA ENGINEERING, P.A. IS EXPRESSLY FORBIDDEN. COPYRIGHT © OPTIMA ENGINEERING P.A. 2026, ALL RIGHTS RESERVED.

adwarchitects
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 PRIDE DEDICATION

optima engineering
434 Fayetteville St. Suite 2450, Raleigh NC 27601
Phone: 919.928.2200 - www.optimaengineering.com
North Carolina License Number C-0914

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

ELECTRICAL SITE PLAN

DATE: 6-03-26
PROJECT NO: 24032

REVISIONS

NO:	DATE:	DESCRIPTION:

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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.

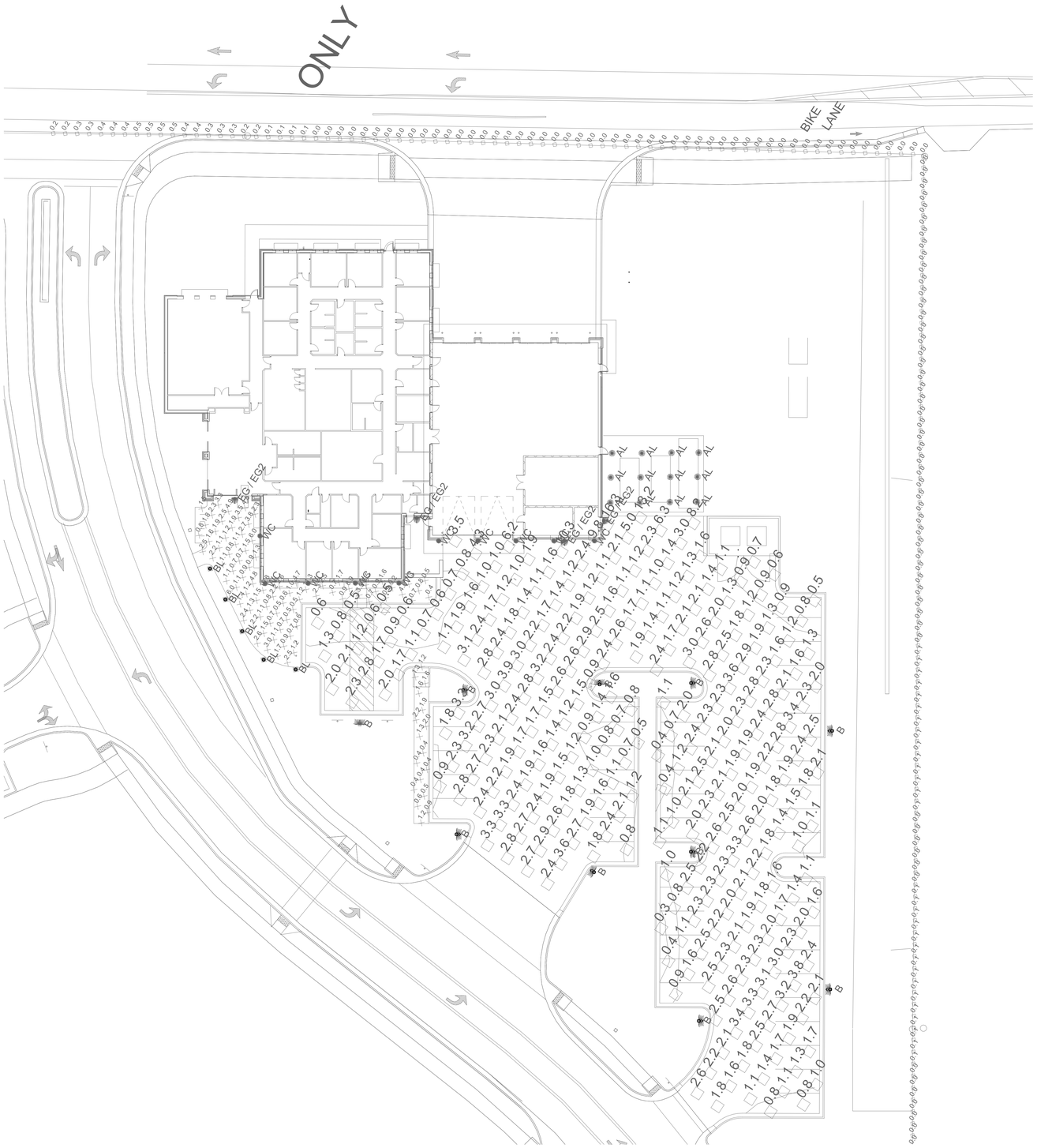
SHEET NUMBER:
E010

ALTERNATE LEGEND (α)

GENERAL NOTES - SITE PLAN

A.	REFER TO E001 FOR LEGENDS, SYMBOLS, AND ABBREVIATIONS.
B.	REFER TO E002 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
C.	ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.
D.	ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.
E.	ALL LOW VOLTAGE CONDUIT RUNS SHALL HAVE HAND HOLES/PULL BOXES SUPPLIED AT 150' INTERVALS UNLESS OTHERWISE INDICATED BY LOCAL UTILITY. MINIMUM SIZE SHALL BE 36" X 36" .

KEYNOTE LEGEND (#)



PHOTOMETRIC CALCULATION STATISTICS						
AREA	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
PROPERTY LINE		0.1 fc	0.5 fc	0.0 fc	N/A	N/A
WALKWAY	×	1.1 fc	2.2 fc	0.4 fc	5.5:1	2.8:1
WALKWAY - ENTRY	×	2.3 fc	11.3 fc	0.4 fc	28.3:1	5.8:1
PARKING LOT	■	2.1 fc	16.3 fc	0.3 fc	54.3:1	7.0:1

NOTES:
- ROADWAY CALCULATIONS ARE TAKEN AT GRADE AT 10' x 10' SPACING
- SIDEWALK CALCULATIONS ARE TAKEN AT GRADE AT 5' x 5' SPACING
- PROPERTY LINE CALCULATIONS ARE TAKEN AT GRADE AT 5' x 5' SPACING
- LIGHT LOSS FACTORS WERE TAKEN AT 0.9
- PROPERTY LINE MAX IS LESS THAN 1 FOR PUBLIC WAY (AT ROADWAYS) AND LESS THAN 0.3 FOR RESIDENTIAL BOARDING PROPERTY

ROLESVILLE SITE LIGHTING REQUIREMENTS				
AREA	AVG	MAX	MIN	AVG/MIN
PARKING	1.9fc - 2.9fc	6.0 fc	0.2fc	6.0:1
ROADS	1.0fc	N/A	N/A	4.0:1
SIDEWALKS	0.8fc	N/A	N/A	6.0:1
PROPERTY LINE (RESIDENTIAL)	N/A	0.3	N/A	N/A
PROPERTY LINE (ROADWAY)	N/A	0.1	N/A	N/A
OUTDOOR LIGHTING FIXTURES SHALL BE DESIGNED, LOCATED AND MOUNTED AT HEIGHTS NO GREATER THAN 18 FEET ABOVE GRADE FOR NON-CUTOFF LIGHTS AND FOR WALL-PACK UNITS, AND 35 FEET ABOVE GRADE FOR POLE MOUNTED CUTOFF LIGHTS.				

1 **ELECTRICAL PHOTOMETRICS SITE PLAN**
1" = 20'-0"

TRUE NORTH PROJECT NORTH

adwarchitects
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 PRIDE DEDICATION

optima engineering
434 Fayetteville St. Suite 2450, Raleigh NC 27601
Phone: 919.926.2200 - www.optimaengineering.com
North Carolina License Number C-0914

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC
27571

ELECTRICAL SITE PHOTOMETRICS

DATE: 6-03-26
PROJECT NO: 24032

REVISIONS

NO:	DATE:	DESCRIPTION:

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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:
E011

THIS DRAWING IS AN INSTRUMENT OF SERVICE. THE DRAWING AND THE INFORMATION THEREON IS THE PROPERTY OF OPTIMA ENGINEERING, P.A. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF OPTIMA ENGINEERING, P.A. IS EXPRESSLY FORBIDDEN. COPYRIGHT © OPTIMA ENGINEERING P.A. 2026, ALL RIGHTS RESERVED.

Project		Catalog #		Type	
Prepared by		Notes		Date	

Streetworks

UTLD Traditionaire

Decorative Post Top Luminaire

Interactive Menu

- Ordering Information page 2
- Product Specifications page 2
- Energy and Performance Data page 3

Product Certifications & Features

Product Specifications

OPTICAL
- Choice of five patented, high-efficiency AccuLED Optic technology manufactured from injection-molded acrylic.
- Optics are precisely designed to shape the light output, maximizing efficiency and application spacing.
- AccuLED Optic technology creates consistent distributions with the scalability to meet customized application requirements.
- Optional 2700K, 3000K, 4000K and 5000K CCT. For the ultimate level of spill light control, an optional house-side shield accessory can be field, or factory installed.
- Optics are IP66 enclosure rated.
- Offered open sided as a standard with four lens options.

ELECTRICAL
- 120-277V 50/60Hz operation. 347V and 480V options available
- 10kV and 20kV surge protection options with series or parallel configurations
- 0-10V dimming standard
- Ambient operating temperature from -40°C to 40°C
- Standard three-position tunnel type compression terminal block

PHYSICAL CHARACTERISTICS
- Hinged (stainless steel hinge pins) die-cast aluminum housing and cover with cupola.
- Self-aligning pole-top fitter for 3" O.D. pole tops or vertical tenons.
- Square headed 1-1/4" polymer coated mounting bolts with a lock nut.
- Cast components finished in a super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear.
- Optional colors include bronze, grey and white. RAL and custom color matches available.

CONTROLS
- 3- and 7-pin photocell receptacle options
- Field Adjustable Dimming Control option for manual adjustment of power consumption and lumen output. Factory preset to highest output level

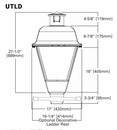
COMPLIANCE
- UL wet location rated
- Configurations available that meet DLC and DLC Premium requirements, submission in progress - visit www.designlights.org to confirm listed variants
- BAA domestic preference option meets BAA requirements. See DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements, submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements

SHIPPING DATA
- Approximate Net Weight: 37 lbs. (17 kgs.)
- Effective Projected Area: 2.3 (Sq. Ft.)

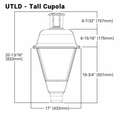
WARRANTY
- Five-year limited warranty. Consult website for details. www.cooperlighting.com/legal

Dimensional Details

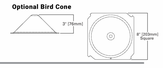
UTLD



UTLD - Tall Cupola



Optional Bird Cone



COOPER Lighting Solutions
a Signify business

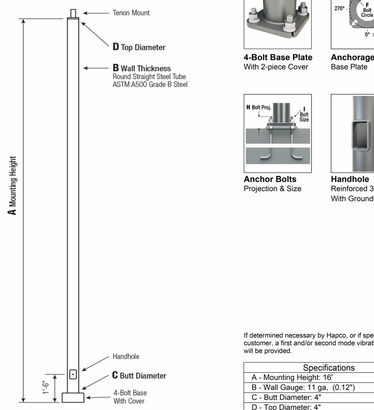
PS506054EN page 1
July 24, 2023 3:35 PM

Proven Performance **hapco** poles & products

RSS16B4-4-T406-FF-GF2-LPC-DP

RSS - Round Straight Steel Pole

16' - 11 ga - 4" Diameter Steel Pole
Finish (DP): 73737-151 (DP) - Black



4-Bolt Base Plate
With 2-piece Cover

Anchorage
Base Plate

Anchor Bolts
Projection & Size

Handhole
Reinforced 3" x 5"
With Grounding

WARNING: Do not install light pole without luminaire.

If determined necessary by Hapco, or if specified by the customer, a first and/or second mode vibration damper will be provided.

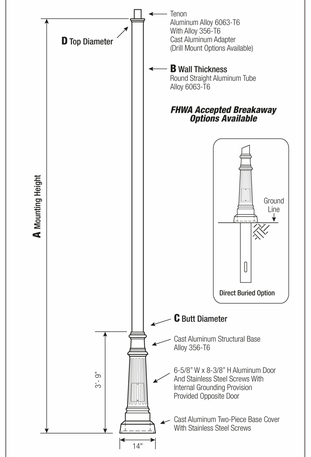
Specifications	
A - Mounting Height: 16'	
B - Wall Gauge: 11 ga. (0.12")	
C - Butt Diameter: 4"	
D - Top Diameter: 4"	
F - Bolt Circle Range: 7.5" - 8.5"	
G - Base Square: 8"	
H - Bolt Proj: 3.75"	
I - Bolt Size: 0.75" x 17" x 3"	
Tenon: 4" OD (3.5" Pipe) x 6" Long	
Add Duplex GFI Receptcle w/ In-Use Cover	
Elec. Box 36" Up (B - 1 @ Odeg)	
Pole Order is Less Pole Cap	

Customer Name:	Optima	
Dealer:		Qty: 31
Project:	Rolesville Campus	Location: Rolesville NC
Notes:		

RSS16B4-4-T406-FF-GF2-LPC-DP

Webpole_040821

HOMEWOOD LARGE STRUCTURAL - STRAIGHT ROUND ALUMINUM POLE



Powder Coated Finish per Customer Specification.

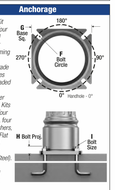
C Butt Dia.	D Top Dia.	F Bolt Cir. Dia.	G Base Sq.	H Bolt Proj.	I Bolt Size
4	4	13 - 14 ■	14	2	.75 x 17 x 3
5	5	13 - 14 ■	14	2	.75 x 17 x 3
6	6	13 - 14 ■	14	2	.75 x 17 x 3

■ *Square Bolt Pattern* — *Dimensions in Inches*

Base
Cast Aluminum. 1-Piece Structural Pedestal Base of Alloy 356 per ASTM B26 or B108. The base shall have an access door with cast aluminum cover and stainless steel attaching hardware. An internal grounding provision will be provided opposite the access door.

Pole
The pole shaft will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft shall be joined to the structural base by means of a complete circumferential weld in accordance with AWS Specification D1.2. The assembly shall be full-length heat-treated after weld to produce a T6 temper.

Anchorage
Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to A449/F0 M314-90 Grade 55. Ten inches (10") of threaded end will be galvanized per ASTM A153. Kits will contain four (4) Hex Nuts, four (4) Lock Washers, and four (4) Flat Washers (all components Galvanized Steel). A bolt circle template will be provided.

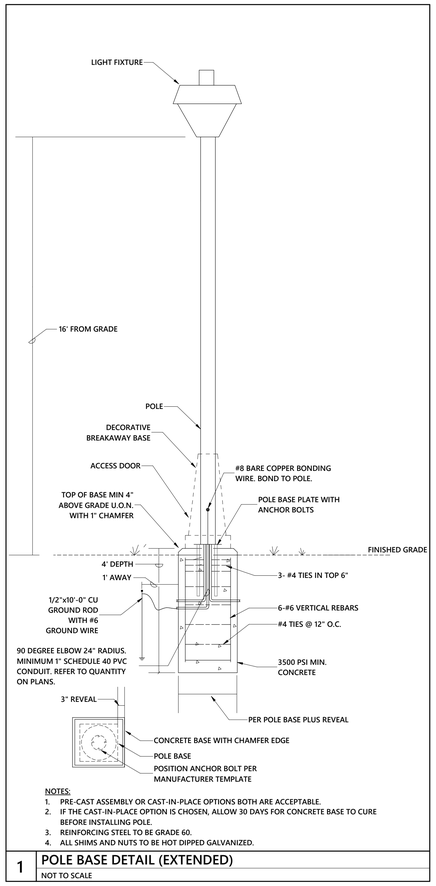


***NOTE:** All HOMEWOOD LARGE pole options may be specified in designs utilizing Direct Buried anchorage.*

Vibration Damper
When determined necessary by Hapco, a Vibration Damper will be factory installed inside the pole shaft. Customer specification of the damper is available.

WARNING: *Do not install light pole without luminaire.*

www.hapco.com **hapco** poles & products **1 OF 2**



NOTES:
1. PRE-CAST ASSEMBLY OR CAST-IN-PLACE OPTIONS BOTH ARE ACCEPTABLE.
2. IF THE CAST-IN-PLACE OPTION IS CHOSEN, ALLOW 30 DAYS FOR CONCRETE BASE TO CURE BEFORE INSTALLING POLE.
3. REINFORCING STEEL TO BE GRADE 60.
4. ALL SHIMS AND NUTS TO BE HOT DIPPED GALVANIZED.

1 POLE BASE DETAIL (EXTENDED)
NOT TO SCALE

---

adwarchitects
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 PRIDE DEDICATION

optima engineering
434 Fayetteville St. Suite 2450, Raleigh NC 27601
Phone: 919.928.2200 - www.optimaengineering.com
North Carolina License Number C-0914

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

ELECTRICAL DETAILS

DATE: 6-03-26
PROJECT NO: 24032

REVISIONS

NO:	DATE:	DESCRIPTION:

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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:
E503

8/14/2026 12:54:36 PM

THIS DRAWING IS AN INSTRUMENT OF SERVICE. THE DRAWING AND THE INFORMATION THEREON IS THE PROPERTY OF OPTIMA ENGINEERING, P.A. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF OPTIMA ENGINEERING, P.A. IS EXPRESSLY FORBIDDEN. COPYRIGHT © OPTIMA ENGINEERING P.A. 2026, ALL RIGHTS RESERVED.

LIGHT FIXTURE SCHEDULE NOTES

1. ALL FIXTURES SHALL BE LED UNLESS OTHERWISE SPECIFIED. COLOR TEMPERATURE SHALL BE 3500K UNLESS OTHERWISE NOTED.
2. LED DRIVERS SHALL BE PROVIDED FROM PER MANUFACTURER RECOMMENDATION. AS PART OF THIS RECOMMENDATION COORDINATE THE REQUIRED WAVE OUTPUT SO THEY ARE COMPATIBLE. THIS INCLUDES EMERGENCY DRIVERS.
3. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.
4. FIXTURES IN FIRE RATED CEILING SHALL BE PROVIDED WITH FIRE RATED TENTS AS REQUIRED.
5. SUSPEND ALL FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
6. FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SUPPLIED WITH 1100 LUMEN INVERTERS.
7. PROVIDE INTEGRAL SURGE PROTECTION ON ALL EXTERIOR LED DRIVER FIXTURE TYPES.
8. DIMMING OF FIXTURES SHALL BE WITH A SWITCH AS RECOMMENDED BY THE DRIVER MANUFACTURER.
9. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.
10. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.
11. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.
12. ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. FIXTURES TO BE INSTALLED IN CEILINGS, INDICATED ON ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH CEILING SURFACE, SHALL BE IC RATED BY MANUFACTURER.
14. LED DRIVERS LOCATED IN UNCONDITIONED SPACES SHALL BE RATED FOR 90 DEGREES F.
15. PROVIDE 90 MINUTE EMERGENCY BATTERY BACK UP. EMERGENCY BACK UP SHALL BE BASED ON TYPE OF FIXTURE, LED DRIVER, BALLAST, ETC. EMERGENCY BACKUP SHALL BE DUAL INPUT FOR BOTH SWITCHING AND CHARGING. PROVIDE UNSWITCHED "HOT" FROM LOCAL CIRCUIT UNLESS OTHERWISE INDICATED ON PLANS. PROVIDE WITH INDICATOR LIGHT. INSTALL LED INDICATOR ON LIGHT FIXTURE UNLESS DECORATIVE. DECORATIVE FIXTURES SHALL HAVE INDICATOR PLACED AT LOCAL CEILING. BODINE, PHILLIPS, POWER SENTRY OR EQUAL.
16. PROVIDE EMERGENCY RELAY BASED ON MINIMUM BODINE GLCD-208 OR EQUAL. SEE PLANS FOR INTENT. PROVIDE EMERGENCY GENERATOR/INVERTER CIRCUIT AND SWITCH LEG NORMAL CIRCUIT. SEE DETAIL.
17. POLES PROVIDED FOR LED FIXTURES SHALL BE METAL, REGARDLESS OF SPECIFICATION FOR GROUNDING PURPOSES.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MINIMUM LUMENS	CCT	TOTAL FIXURE WATTAGE	VOLTAGE	MANUFACTURER	MODEL	REMARKS
AL	SURFACE MOUNTED CANOPY AREA LIGHT	2,000	4000K	26 W	120V	LITHONIA	CNY	80 CRI.
CF	CEILING FAN			0 W	120V	BIG ASS FANS	HAIKU L	PROVIDE PENDANT MOUNTING KIT. 52" DIAMETER.
D6	6" RECESSED DOWNLIGHT	1,000	3500K	10 W	120V	LITHONIA	LDN6	WET LOCATION LISTED. 90 CRI. MINIMUM 10% DIMMMING.
D6E	6" RECESSED DOWNLIGHT EMERGENCY	1,000	3500K	10 W	120V	LITHONIA	LDN6	WET LOCATION LISTED. 90 CRI. MINIMUM 10% DIMMMING.
EG1	INTERIOR EMERGENCY EGRESS LIGHT	500	3500K	6 W	120V	LITHONIA	WLTU MR	PROVIDE 90 MINUTE BATTERY BACKUP. WET LOCATION LISTED.
EG2	EXTERIOR EMERGENCY EGRESS LIGHT	2,000	4000K	11 W	120V	LITHONIA	WDGE2 LED P1	PROVIDE COLD WEATHER 90 MINUTE BATTERY BACKUP. WET LOCATION LISTED.
FL	EXTERIOR FLOOD LIGHT	9,000	4000K	71 W	120V	LITHONIA	WDGE3 LED P3	WET LOCATION LISTED.
HB	HIGH BAY PENDANT	24,000	3500K	150 W	120V	LITHONIA	CPHB	PROVIDE PENDANT MOUNTING KIT AND MOUNT AT HEIGHT INDICATED ON PLANS.
LD	8' LINEAR PENDANT DIRECT/INDIRECT	2,400	3500K	35 W	120V	MARK ARCHITECTURAL LIGHTING	S4PID	90 CRI. MINIMUM 1% DIMMING. DIRECT/INDIRECT DISTRIBUTION. DIRECT: 300 LUMNES/FT, REGRESSED LOUVER LENS INDIRECT: 300 LUMENS/FT, TOP GLOW LENS PROVIDE PENDANT MOUNTING KIT.
PS	4' LINEAR PENDANT STRIP LIGHT	3,000	3500K	42 W	120V	LITHONIA	CLX	80 CRI. MINIMUM 10% DIMMING. PROVIDE PENDANT MOUNTING KIT.
PSE	4' LINEAR PENDANT EMERGENCY	3,000	3500K	42 W	120V	MARK ARCHITECTURAL	CLX	80 CRI. MINIMUM 10% DIMMING. PROVIDE PENDANT MOUNTING KIT. PROVIDE 90 MINUTE BATTERY BACKUP.
S	SURFACE MOUNTED 4' STRIP LIGHT	3,000	3500K	29 W	120V	LITHONIA	WL4	80 CRI.
SE	SURFACE MOUNTED 4' STRIP LIGHT EMERGENCY	3,000	3500K	29 W	120V	LITHONIA	WL4	80 CRI. PROVIDE 90 MINUTE BATTERY BACKUP.
SL	SURFACE MOUNTED 4' STRIP LIGHT	3,000	3500K	29 W	120V	MARK ARCHITECTURAL LIGHTING	SL4L	95 CRI. 1% MINIMUM DIMMING. CONFIRM FINSIH WITH ARCHITECT.
T2	2X2 TROFFER	2,000	3500K	17 W	120V	LITHONIA	STAK 2X2	80 CRI. MINIMUM 10% DIMMING.
T2E	2X2 TROFFER EMERGENCY	2,000	3500K	17 W	120V	LITHONIA	STAK 2X2	80 CRI. MINIMUM 10% DIMMING. PROVIDE 90 MINUTE EMERGENCY BATTERY BACKUP.
T4	2X4 TROFFER	4,000	3500K	33 W	120V	LITHONIA	STAK 2X4	80 CRI. MINIMUM 10% DIMMING.
T4E	2X4 TROFFER	4,000	3500K	33 W	120V	LITHONIA	STAK 2X4	80 CRI. MINIMUM 10% DIMMING. PROVIDE 90 MINUTE EMERGENCY BATTERY BACKUP.
TH	TRACK LIGHT HEAD	400	3500K	10 W	120V	JUNO	R608L	95 CRI. 1% MINIMUM DIMMING. CONFIRM FINSIH WITH ARCHITECT.
UC	UNDER CABINET LINEAR	400	3500K	9 W	120V	LITHONIA	UCES	"-X" APPENDED TO FIXTURE TAG INDICATES LENGHT OF FIXTURE TO BE ORDERED IN FEET. WATTS AND LUMENS LISTED ON THE FIXTURE SCHEDULE ARE PER FOOT OF FIXTURE LENGTH.
V	2' VANITY LINEAR SCONCE	1,000	3500K	18 W	120V	LITHONIA	FMVCCLS	VERIFY FISNIH WITH ARCHITECT
WC	EXTERIOR CYLINDER SCONCE	4,000	4000K	31 W	120V	LITHONIA	WMCL4 P1	UP AND DOWN LIGHT. WET LOCATION LISTED.
WLE	EXTERIOR UTILITY YARD WALL LIGHT WITH 90 MINUTE BATTERY BACKUP	7,000	4000K	18 W	120V	LITHONIA	TWR2	WET LOCATION LISTED. PROVIDE 90 MINUTE COLD WEATHER BATTERY BACKUP.
WW	RECESSED LINEAR WALL WASH	4,000	3500K	57 W	120V	PEERLESS	OPRW	WALL WASH DISTRIBUTION.
X1	UNIVERSAL EXIT SIGN		RED	5 W	120V	LITHONIA	EDG/EDGR	90 MINUTE OPERATION. RED LETTERS AND ARROWS. SEE PLANS FOR FACE STYLE.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MINIMUM LUMENS	CCT	TOTAL FIXURE WATTAGE	VOLTAGE	MANUFACTURER	MODEL	REMARKS
B	16 FT HIGH OUTPUT POLE MOUNTED PARKING LOT LAMP	7,500	4000K	64 W	208V	COOPER LIGHTING SOLUTIONS - STREETWORKS	LXF.LXT-PA1-60-740-U-T4W	BLACK FINISH PROVIDE 4" ROUND SMOOTH ALUMINUM POLE WITH BREAKAWAY DECORATIVE BASE T4 DISTRIBUTION BT-U0-G2
BL	43"X8"X8" BOLLARD	350	4000K	16 W	208V	FORMS AND SURFACES	KNIGHT BOLLARD	BLACK FINISH

NOTES:
- ALL LIGHTS SHALL BE EQUIVALENT TO THE OPTICAL DISTRIBUTION. APPROVED EQUAL MANUFACTURERS ARE LITHONIA, RAB, US OUTDOOR LIGHTING
- ALL LIGHTS TO BE POLE MOUNTED AT 16FT UNLESS OTHERWISE NOTED. REFER TO POLE BASE DETAILS FOR MORE INFORMATION.

adwarchitects
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 PRIDE DEDICATION

optima engineering
434 Fayetteville St.,Suite 2450, Raleigh NC 27601
Phone: 919.928.2200 - www.optimaengineering.com
North Carolina License Number C-0914

TOWN OF ROLESVILLE FIRE STATION #1

ROLESVILLE, NC 27571

ELECTRICAL LIGHTING FIXTURE SCHEDULE

DATE: 6-03-26
PROJECT NO: 24032

REVISIONS

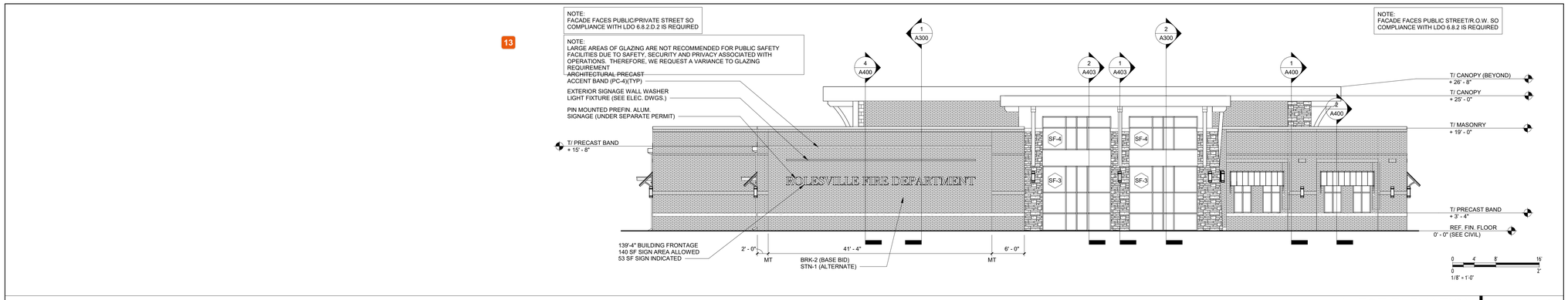
NO:	DATE:	DESCRIPTION:

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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.

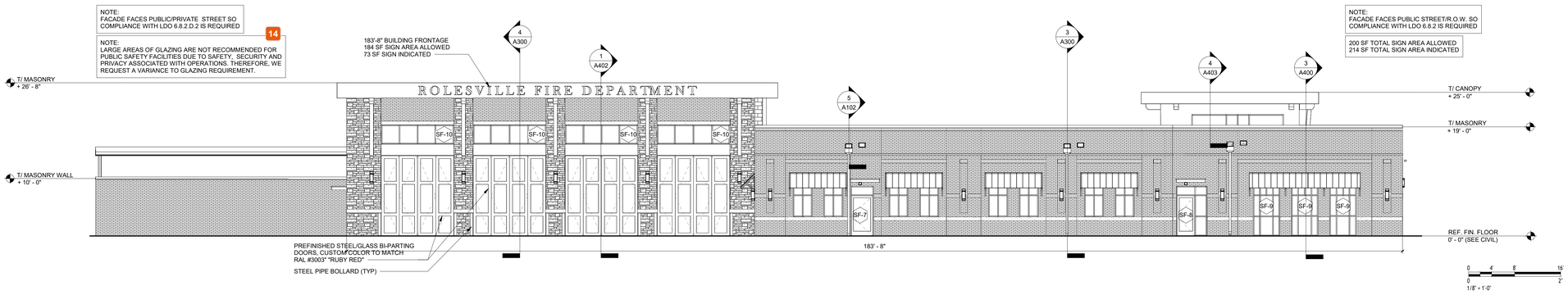
SHEET NUMBER:
E701

8/14/2026 12:54:36 PM

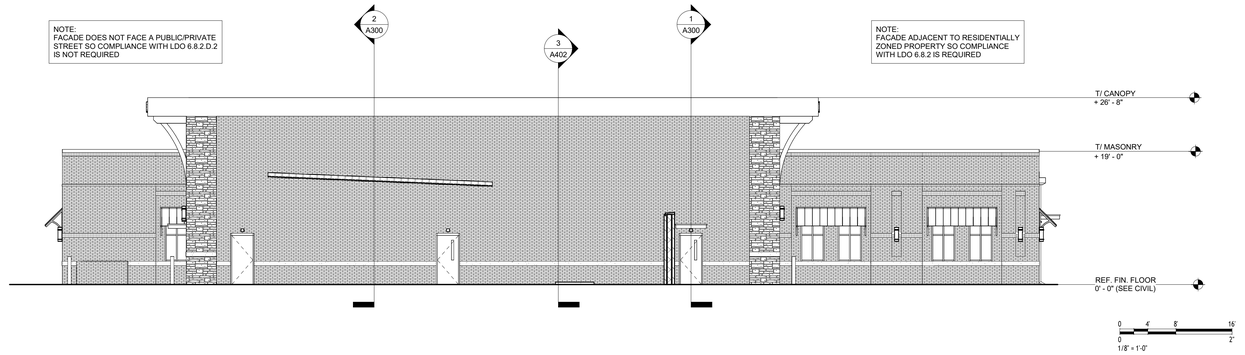
THIS DRAWING IS AN INSTRUMENT OF SERVICE. THE DRAWING AND THE INFORMATION THEREON IS THE PROPERTY OF OPTIMA ENGINEERING, P.A. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF OPTIMA ENGINEERING, P.A. IS EXPRESSLY FORBIDDEN. COPYRIGHT © OPTIMA ENGINEERING P.A. 2026, ALL RIGHTS RESERVED.



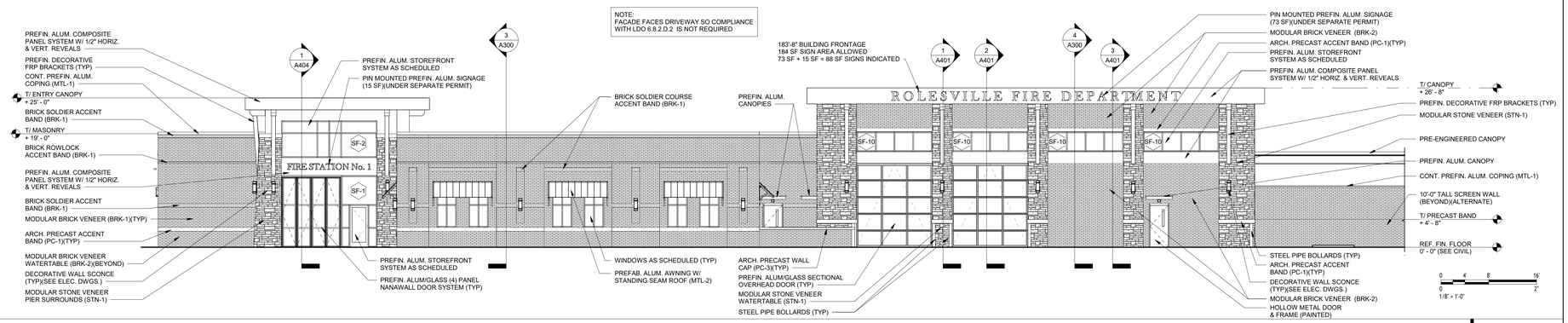
WEST ELEVATION | 1/8" = 1'-0" 4



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



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



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

8/15/2025 11:33:02 AM

adwarchitects
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 DEDICATION PRIDE DEPT

TOWN OF ROLESVILLE FIRE STATION #1

EXTERIOR ELEVATIONS

DATE: 6-03-26
PROJECT NO: 24032

REVISIONS

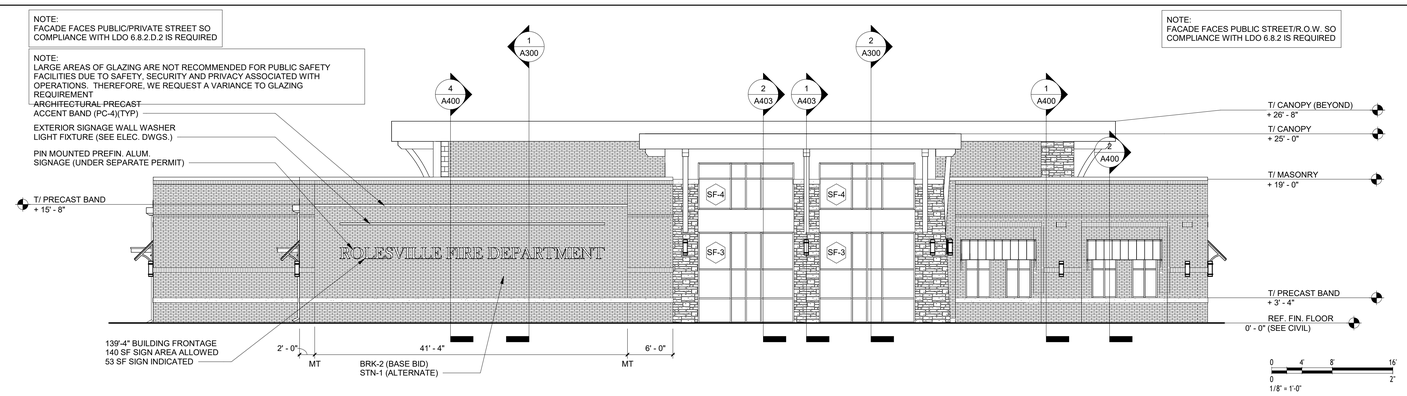
NO:	DATE:	DESCRIPTION:

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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.

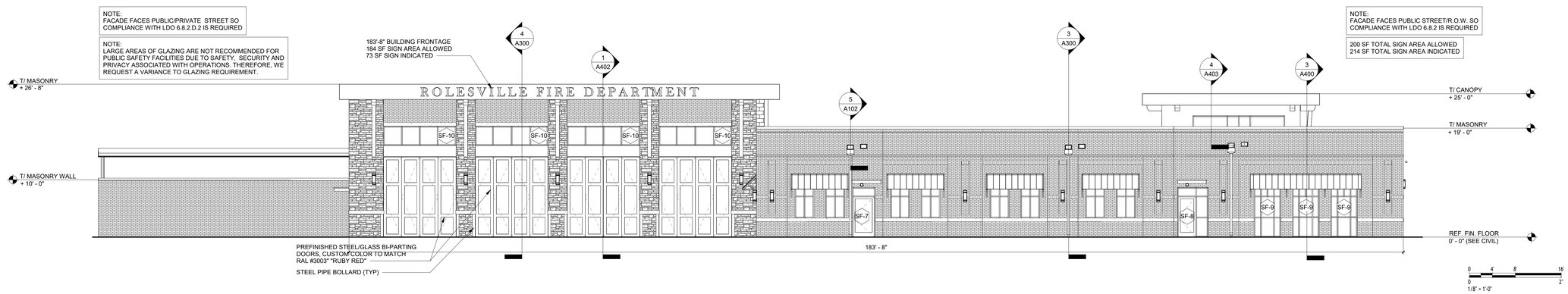
SHEET NUMBER:
AR200

13 Stephen Wensman
The exterior elevations provided in the main Site Development Plan set (Sheet A200) differ from the separately uploaded elevations file (Sheet AR200). The separate AR200 sheet includes additional notes regarding LDO compliance and a variance request that are missing from the main plan set. Please ensure all submitted plan sheets are consistent and represent the most current version of the project.

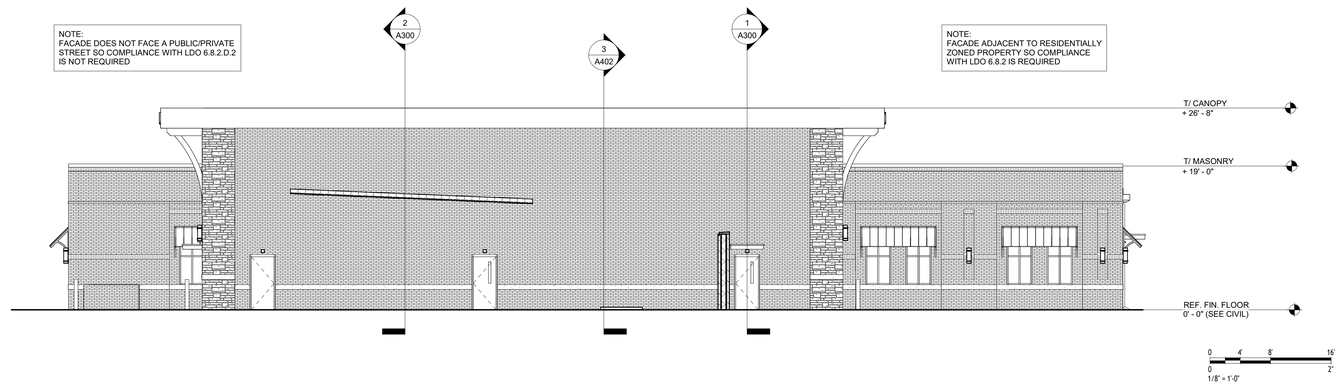
14 Stephen Wensman
Sheet AR200 includes a note stating 'WE REQUEST A VARIANCE TO GLAZING REQUIREMENT.' Variances to the Land Development Ordinance cannot be granted through a Site Development Plan review. If you wish to pursue a variance, you must submit a separate Zoning Variance Application to be reviewed by the Board of Adjustment.



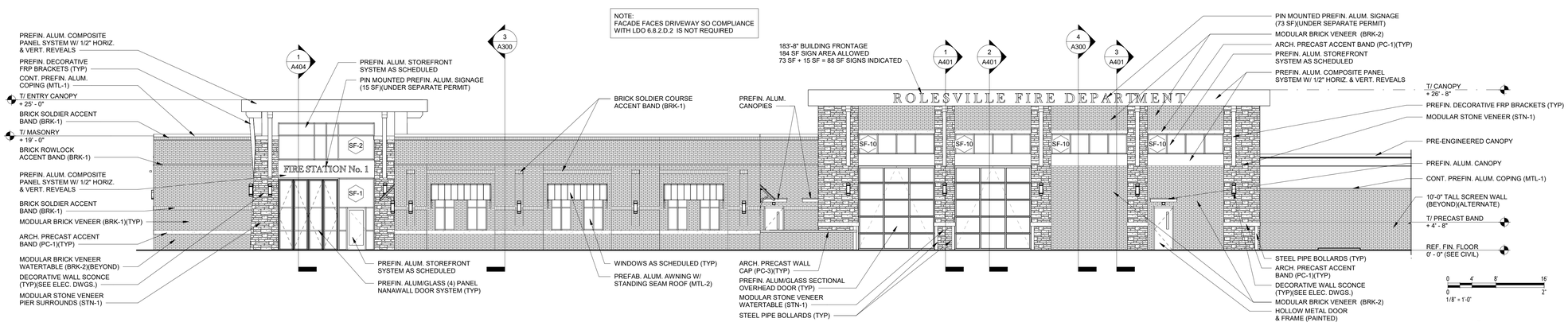
WEST ELEVATION | 1/8" = 1'-0" 4



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



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



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

adwarchitects
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 PRIDE DEDICATION

TOWN OF ROLESVILLE FIRE STATION #1

EXTERIOR ELEVATIONS

DATE: 6-03-26
PROJECT NO: 24032

REVISIONS

NO:	DATE:	DESCRIPTION:

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED 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:
AR200