Town of Rolesville, NC
Department of Planning

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

Comments on #SDP-26-0001 - Planning & Zoning: Site Development Plan

Application Number: #SDP-26-0001
Application Type: Site Development Plan
Date: February 27, 2026
Address: 851 S MAIN ST, ROLESVILLE
Parcel: 1758453676

THIS DOCUMENT IS NOT YOUR PERMIT.

The Rolesville Planning Department has reviewed your application for a Site Development Plan Application and has responded with a set of comments that require your attention. These comments must be addressed in full before an approval will be issued.

Reviewing this document on 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 acknowledged before a permit is issued.

After you have addressed all comments, please upload corrected versions of the plans by clicking here or by visiting https://app.govwell.com/record/f2c63d66-1825-4fce-8c04-b049d71096f1.

Contacts

Austin Bain City of Raleigh Engineer	(919) 996-3468 austin.bain@raleighnc.gov	Updates Requested
Eddie Henderson Parks & Recreation	ehenderson@rolesvillenc.gov	Approved
Jacob Butler Interim Fire Chief	jbutler@rolesvillenc.gov	Approved
Jacqueline Thompson On-Call Civil Engineer	jacqueline.thompson@bolton-menk.com	Updates Requested

Lorna Withrow Wake County Watershed Mgmt	lorna.withrow@wake.gov	Updates Requested
Meredith Gruber Senior Planner	mgruber@rolesvillenc.gov	Updates Requested
Michele Raby Planner II	mraby@rolesvillenc.gov	Updates Requested
Stephen Wolf Wake County Deputy Fire Marshal	stephen.wolf@wake.gov	Updates Requested
Tanner Hayslette Planner I	thayslette@rolesvillenc.gov	Approved
Thomas DeAveiro NCDOT Reviewer	tddeaveiro@ncdot.gov	Approved

General Comments

LW Lorna Withrow
Wake County Watershed Mgmt

Does the North Arrow depicted on the plan sheets coincide with the orientation of the parcel as shown?

February 24, 2026, 1:54pm

Comments on Plan

1 MR Michele Raby
Planner II

Please add PIN and date to top information bar.

Page 1 • February 19, 2026, 9:23am

2 JT Jacqueline Thompson
On-Call Civil Engineer

Please update to the submittal # SDP-26-0001

Page 1 • February 26, 2026, 10:15am

3 JT Jacqueline Thompson
On-Call Civil Engineer

Please add County Information

Page 1 • February 26, 2026, 10:16am

4 JT Jacqueline Thompson
On-Call Civil Engineer

Please update building height information as it becomes available.

Page 1 • February 26, 2026, 10:17am

5 MR Michele Raby
Planner II

Please add Surveyor, Landscape Architect, mark The Site Group as the Civil Engineer, etc. if applicable.

Page 1 • February 19, 2026, 9:25am

6 JT Jacqueline Thompson
On-Call Civil Engineer

This appears to be existing storm not future - please confirm.

Page 2 • February 26, 2026, 10:18am

7 JT Jacqueline Thompson
On-Call Civil Engineer

Label this line

Page 2 • February 26, 2026, 10:17am

8 JT Jacqueline Thompson
On-Call Civil Engineer

To avoid duplicate of information that may not be correct - consider removing this since it is on the cover sheet. If it is to remain, please make sure all updates requested on the front page are made here as well.

Page 3 • February 26, 2026, 10:21am

9 JT Jacqueline Thompson
On-Call Civil Engineer

This sidewalk does not appear to connect to anything. Please review the connectivity of the site to adjacent properties.

Page 3 • February 26, 2026, 10:21am

10 JT Jacqueline Thompson
On-Call Civil Engineer

Ensure either through a label, note, or detail that all pedestrian ramps have domes that match TOR requirements. Check the Standards Manual.

Page 3 • February 26, 2026, 10:24am

11 JT Jacqueline Thompson
On-Call Civil Engineer

Confirm what these grey lines along the curb represent. There doesn't appear to be any labels or anything in the legend.

Page 3 • February 26, 2026, 10:34am

12 JT Jacqueline Thompson
On-Call Civil Engineer

Consider heavy duty concrete for the dumpster pad.

Page 3 • February 26, 2026, 10:19am

13 JT Jacqueline Thompson
On-Call Civil Engineer

Label the 5' walk to make it clear there are 2 different widths being constructed.

Page 3 • February 26, 2026, 10:40am

14 JT Jacqueline Thompson
On-Call Civil Engineer

To match the legend, existing linework should be greyed back to easily distinguish between existing vs. proposed.

Page 3 • February 26, 2026, 10:24am

15 JT Jacqueline Thompson
On-Call Civil Engineer

Please show hatching to clarify heavy duty vs. light duty asphalt instead of these labels.

Page 3 • February 26, 2026, 10:19am

16 JT Jacqueline Thompson
On-Call Civil Engineer

Label all radii - A minimum 28' radius is required for emergency vehicles.

Page 3 • February 26, 2026, 10:25am

17 JT Jacqueline Thompson
On-Call Civil Engineer

It appears there is a taper in sidewalk width here. Please confirm. Consider extending the 5' walk all the way instead of having a taper.

Page 3 • February 26, 2026, 10:40am

18 JT Jacqueline Thompson
On-Call Civil Engineer

To provide connectivity, a receiving ramp will need to be constructed on the south side of the roadway, and a street crossing will be needed.

Page 3 • February 26, 2026, 10:22am

19 JT Jacqueline Thompson
On-Call Civil Engineer

There is an existing sidewalk that should be connected to for overall connectivity.

Page 3 • February 26, 2026, 10:23am

20 JT Jacqueline Thompson
On-Call Civil Engineer

Confirm future vs. existing.

Page 4 • February 26, 2026, 10:25am

21 JT Jacqueline Thompson
On-Call Civil Engineer

Top of curb elevation is lower than the top of the ramp elevation - please review sidewalk and curb grades and assure ADA compliance is being provided. If the top of curb/sidewalk is correct, the ramp does not need to be at 5% and could be reduced in slope.

Page 4 • February 26, 2026, 10:28am

22 JT Jacqueline Thompson
On-Call Civil Engineer

If standard curb is being used, the top of curb at the 389.64 gutter elevation appears to be lower than the top of ramp at 390.23. Please review elevations.

Page 4 • February 26, 2026, 10:29am

23 JT Jacqueline Thompson
On-Call Civil Engineer

This curbline appears to be flat (390.17) across the length - if this is the case, will this curb be gutter out? If not, consider adding intermediate elevations for clarification (high point?).

Page 4 • February 26, 2026, 10:31am

24 JT Jacqueline Thompson
On-Call Civil Engineer

Curb appears to be flat across here (389.64) - will this be gutter out?

Page 4 • February 26, 2026, 10:32am

25 JT Jacqueline Thompson
On-Call Civil Engineer

Where is drainage going from this curb? Will this be gutter out? Is a catch basin needed? Please review all curb elevations and clarify what the intended drainage patterns are either with identifying additional elevations, or labeling if any gutter out curb will be used (or both).

Page 4 • February 26, 2026, 10:36am

26 JT Jacqueline Thompson
On-Call Civil Engineer

Please label minimum cover required

Page 8 • February 27, 2026, 3:53pm

27 JT Jacqueline Thompson
On-Call Civil Engineer

Missing CO11 - CO15 information. Please include all drainage profiles

Page 8 • February 27, 2026, 3:53pm

28 AB Austin Bain
City of Raleigh Engineer

Is a 2" meter and service necessary for the splash pad?

Page 9 • February 16, 2026, 2:08pm

29 AB Austin Bain
City of Raleigh Engineer

Move backflow assemblies out of easement and onto customer property.

Page 9 • February 16, 2026, 2:07pm

30 AB Austin Bain
City of Raleigh Engineer

Please submit Site Dev Plan through Raleigh's Development portal. This will need to be submitted as a Town of Rolesville construction drawing. (MRCP through portal)

Page 9 • February 26, 2026, 9:30am

31 AB Austin Bain
City of Raleigh Engineer

Please reach out if you have any further questions.

Page 9 • February 16, 2026, 2:05pm

32 MG Meredith Gruber
Senior Planner

See LDO Section 6.8.4. Nonresidential Pedestrian Consideration. Demonstrate compliance with this section. It may be helpful to provide a pedestrian circulation exhibit to show connections within and to the site.

Page 9 • February 27, 2026, 5:26pm

33 AB Austin Bain
City of Raleigh Engineer

Obtain FOG approval for the grease trap and attach the approval to plans. https://raleighnc.gov/permits/services/fats-oil-and-grease-fog-permits-and-inspections

Page 9 • February 16, 2026, 2:09pm

34 JT Jacqueline Thompson
On-Call Civil Engineer

This sidewalk detail shows a very specific location and size that does not match up with all sidewalk on site. Please adjust to provide the correct information needed.

Page 13 • February 27, 2026, 3:56pm

35 MG Meredith Gruber
Senior Planner

Please see LDO Section 6.8.2. Nonresidential Building Design Standards. Demonstrate compliance with item D. Standards. If it is faster/easier, you can submit a hand drawn markup of this sheet.

Page 43 • February 27, 2026, 5:10pm

36 MG Meredith Gruber
Senior Planner

This looks like it would be the rear elevation, opposite the front one, instead of the right side?

Page 43 • February 27, 2026, 5:06pm

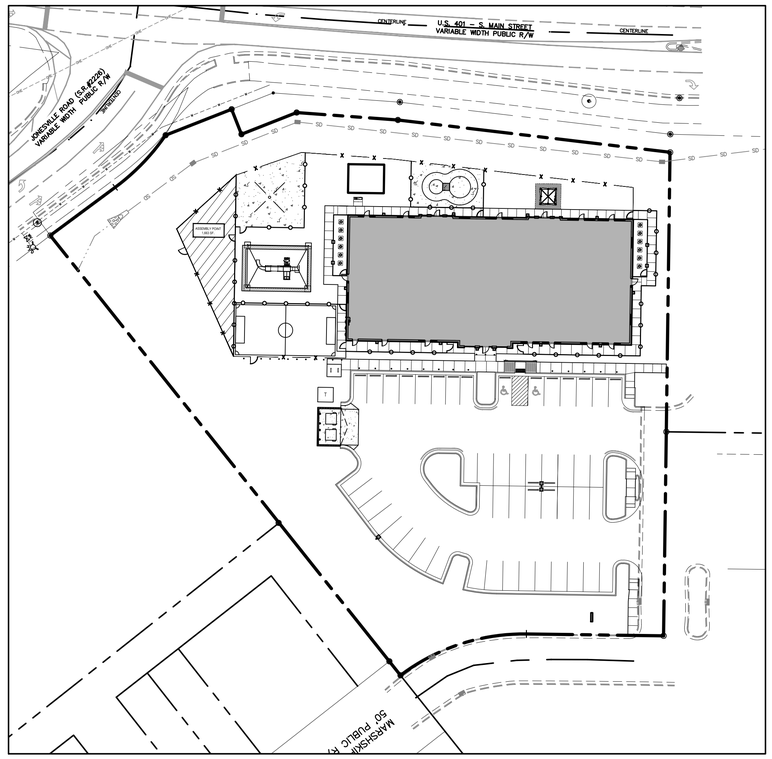
KIDDIE ACADEMY LOT 4 AT WALLBROOK

851 S MAIN ST

Rolesville, North Carolina

SITE DEVELOPMENT PLAN

SDP-26-XX



THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, N.C.

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SAMUEL R. NYE
1/30/2026

DRAWINGS INDEX:

SITE 001	COVER SHEET
SITE 100	EXISTING CONDITIONS & DEMO PLAN (BOUNDARY SURVEY)
SITE 200	SITE LAYOUT PLAN
SITE 300	GRADING & DRAINAGE PLAN
SITE 301	INITIAL EROSION CONTROL PLAN
SITE 302	FINAL EROSION CONTROL PLAN
SITE 303	NPDES SHEET
SITE 304	STORM DRAINAGE PROFILES
SITE 400	UTILITY PLAN
SITE 401	LIGHTING PLAN
SITE 500	LANDSCAPE PLAN
SITE 600	SITE DETAILS
SITE 601	SITE DETAILS
SITE 602	SITE DETAILS
SITE 603	SITE DETAILS
SITE 604	SITE DETAILS
SITE 605	SITE DETAILS
SITE 606	SITE DETAILS
SITE 607	SITE DETAILS
XXX	BUILDING FLOORPLANS (BY OTHERS)
XXX	BUILDING ELEVATIONS (BY OTHERS)

ATTENTION CONTRACTORS

The ***Construction Contractor*** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for ***contacting*** the ***Public Utilities Department*** at ***(919) 996-4540*** at least ***twenty four hours*** prior to beginning any of their construction.

Failure to notify both ***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***.

SPECIAL USE STANDARDS: DAY CARE (LDO SEC. 5.1.3.F)

A. AREAS DEDICATED FOR DROP OFF AND PICK UP MUST BE INCLUDED FOR ANY SITE PLAN OR PERMIT REQUEST FOR A DAY CARE.

COMPLIANCE: PARKING SPOTS ADJACENT TO BUILDING ARE TO BE RESERVED FOR DROP OFF AND PICK UP. PARENTS ARE REQUIRED TO PARK IN ORDER TO CHECK IN THEIR CHILDREN INSIDE.

B. OUTDOOR PLAY AREAS AND PLAYGROUNDS SHALL BE FENCED WITH A MINIMUM SIX (6) FOOT FENCE.

COMPLIANCE: PROPOSED EXTERIOR FENCING IS SIX (6) FOOT HIGH. PROPOSED INTERIOR FENCING IS FOUR (4) FOOT HIGH.

FLOODPLAIN NOTE:

1. THIS PROPERTY IS LOCATED OUTSIDE THE WAKE COUNTY 100 YEAR FUTURE CONDITIONS FLOODPLAIN (1% FUTURE CONDITIONS FLOODPLAIN").

   FEMA REFERENCE DATA:
   FEMA FIRM PANEL No.: 3720175800K
   EFFECTIVE DATE: JULY 19, 2022

   THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3720175800K DATED JULY 19, 2022

RALEIGH WATER

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☐ S-_____
STORMWATER MGMT. ☐ S-_____
FLOOD STUDY ☐ S-_____
DATE_____
ENVIRONMENTAL CONSULTANT SIGNATURE

Rolesville
Genuine Community • Capital Connection
Est. 1837

SITE DATA SUMMARY

PROJECT NAME:	KIDDIE ACADEMY LOT 4 AT WALLBROOK
PARCEL ID(S):	1758-45-3676
SITE ADDRESS:	851 S MAIN ST
JURISDICTION:	RO – ROLESVILLE
EXISTING ZONING:	GC-CZ
RIVER BASIN:	NEUSE
WATERSHED:	LOWER NEUSE
GROSS SITE AREA:	76,124 SF, 1.75 ACRES
CURRENT USE:	VACANT
PROPOSED USE:	DAYCARE
BUILDING AREA:	11,112 SF
BUILDING HEIGHT:	TBD
SETBACKS & DIMENSIONS:	
FRONT BUILDING SETBACK (MIN):	20'
SIDE BUILDING SETBACK (MIN):	15'
REAR BUILDING SETBACK (MIN):	35'
CORNER BUILDING SETBACK (MIN):	25'
LOT WIDTH (MIN):	100'
LOT AREA (MIN):	20,000 SF
PRIMARY STREET PARKING SETBACK:	10'
SIDE LOT PARKING SETBACK:	10'
REAR LOT PARKING SETBACK:	0' OR 3'
VEHICLE PARKING MINIMUM:	2.5 SPACES/1,000 SF = 28 SPACES (INCL. 2 H/C)
VEHICLE PARKING MAXIMUM:	5 SPACES/1,000 SF = 56 SPACES
PROVIDED VEHICLE PARKING:	49 SPACES (INCL. 2 H/C)
BICYCLE PARKING REQUIRED (MIN.):	1 SPACE/5,000 SF = 2 SPACES
BICYCLE PARKING PROVIDED :	2 SPACES
EXISTING IMPERVIOUS AREA:	0 SF
PROPOSED IMPERVIOUS AREA:	37,378 SF, 0.86 AC (49%)
TREE COVERAGE	0 SF
TOTAL DISTURBED AREA:	72,296 SF/1.66 AC.
OPEN SPACE REQUIRED (MIN.): (PER LDO SEC. 6.2.1.D.3)	5% OF GROSS SITE AREA = 3,806 SF
OPEN SPACE PROVIDED:	11,169 SF OF ACTIVE USE AREA

PARKING REQUIREMENTS:

PARKING REQUIRED: DAY CARE		
	MINIMUM: 2.5/1,000 SF = 11,112/1,000*2.5	28 SPACES
	MAXIMUM: 5/1,000 SF = 11,112/1,000*5	56 SPACES
	TOTAL REQUIRED PARKING:	38 SPACES
	REQUIRED HANDICAP PARKING:	2 SPACES
	PARKING PROVIDED:	49 SPACES (INCL. 2 H/C)

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

CONTACT:
SAMUEL R. NYE, PE
THE SITE GROUP, PLLC
1111 OBERLIN ROAD
RALEIGH, NC 27605
PHONE: (919) 835-4787
FAX: (919) 839-2255
EMAIL: SRN@THESITEGROUP.NET

OWNER/DEVELOPER:
SANJAY SHARMA
2111 WINTERBORNE DRIVE
CARY, NC 27519
PHONE: (216) 334-6615
EMAIL: sanjay.sharma@kiddieacademy.net

NORTH

COVER SHEET

SCALE: 1" = 30' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 30 60 90 120

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
1111 Oberlin Road
Raleigh, NC 27605-1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

COVER SHEET

Job Code SSRCC

Dwg No.
SITE 001

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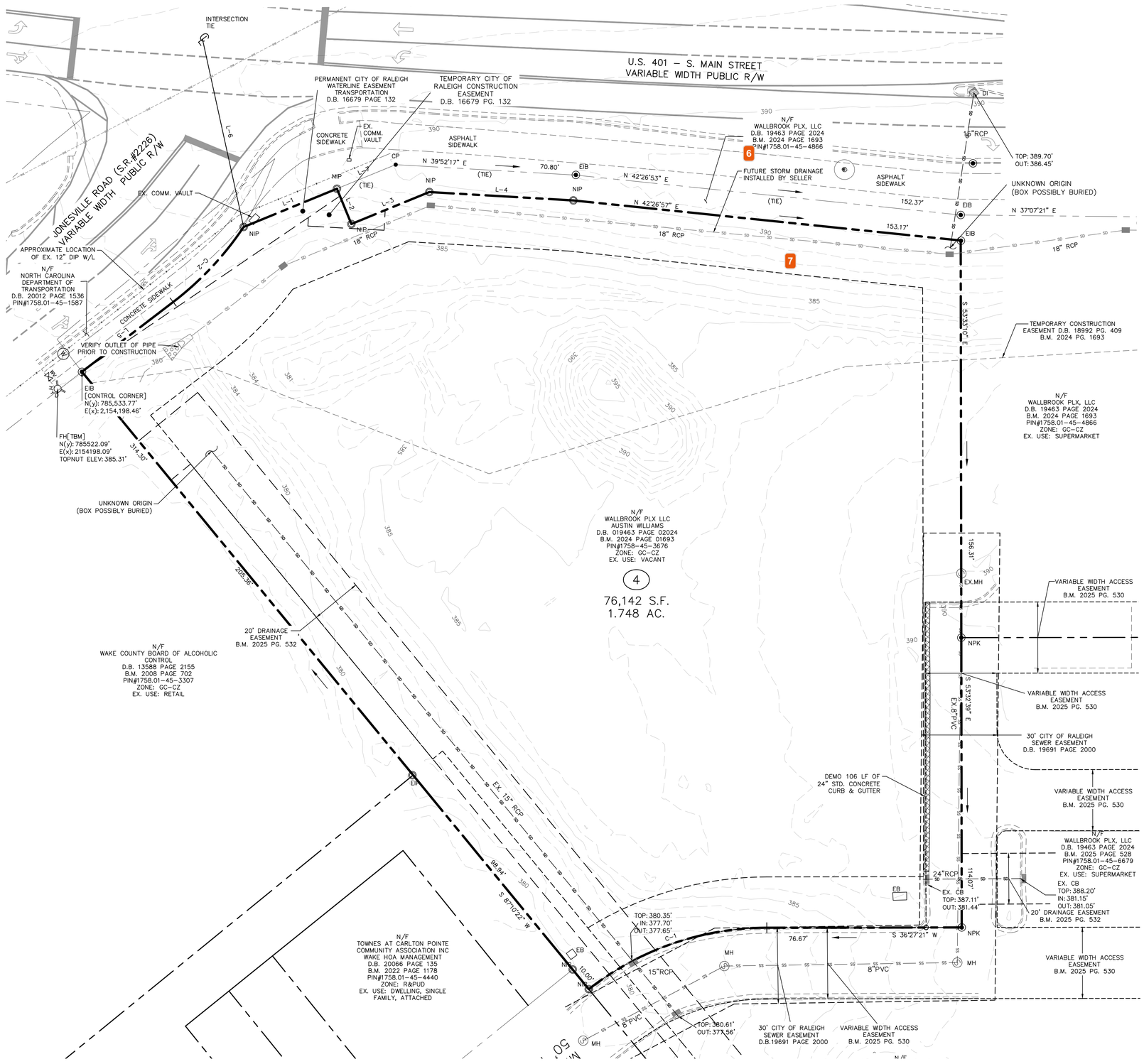

LINE LEGEND

- PROPERTY BOUNDARY
- ADJACENT BOUNDARY
- EXISTING R/W
- FUTURE R/W
- POND/CREEK
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORMWATER
- EXISTING GAS LINE
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- EXISTING FLOOD HAZARD AREA
- EXISTING WETLAND AREA
- EXISTING FENCE
- PROPOSED STORM DRAIN LINE
- LIMITS OF DISTURBANCE
- SILT/TREE PROTECTION FENCE

LINE TABLE		
LINE	BEARING	DISTANCE
L-1	N 14°13'53" E	39.66'
L-2	S 75°46'07" E	15.00'
L-3	N 14°13'53" E	33.14'
L-4	N 39°52'17" E	56.74'
L-5	N 00°52'59" W	45.18'
L-6	N 65°49'01" W	75.66'
L-7	N 14°13'53" E	24.99'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD LENGTH	CHORD BEARING
C-1	75.45'	114.00'	74.08'	S 17°29'39" W
C-2	40.68'	123.92'	40.50'	N 10°17'16" W

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NORTH

EXISTING CONDITIONS & DEMO PLAN

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0 20 40 60 80

THE SITE GROUP, PLLC
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CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SAMUEL R. NITZ
1/30/2026

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KIDDIE ACADEMY LOT 4 AT WALLBROOK

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ROLESVILLE, NORTH CAROLINA

Drawn By BRK
Checked By SRN

DATE:
30 JAN 2026

CONSTRUCTION DOCUMENT

EXISTING CONDITIONS & DEMO PLAN

Job Code SSRCC

Dwg No. SITE 100

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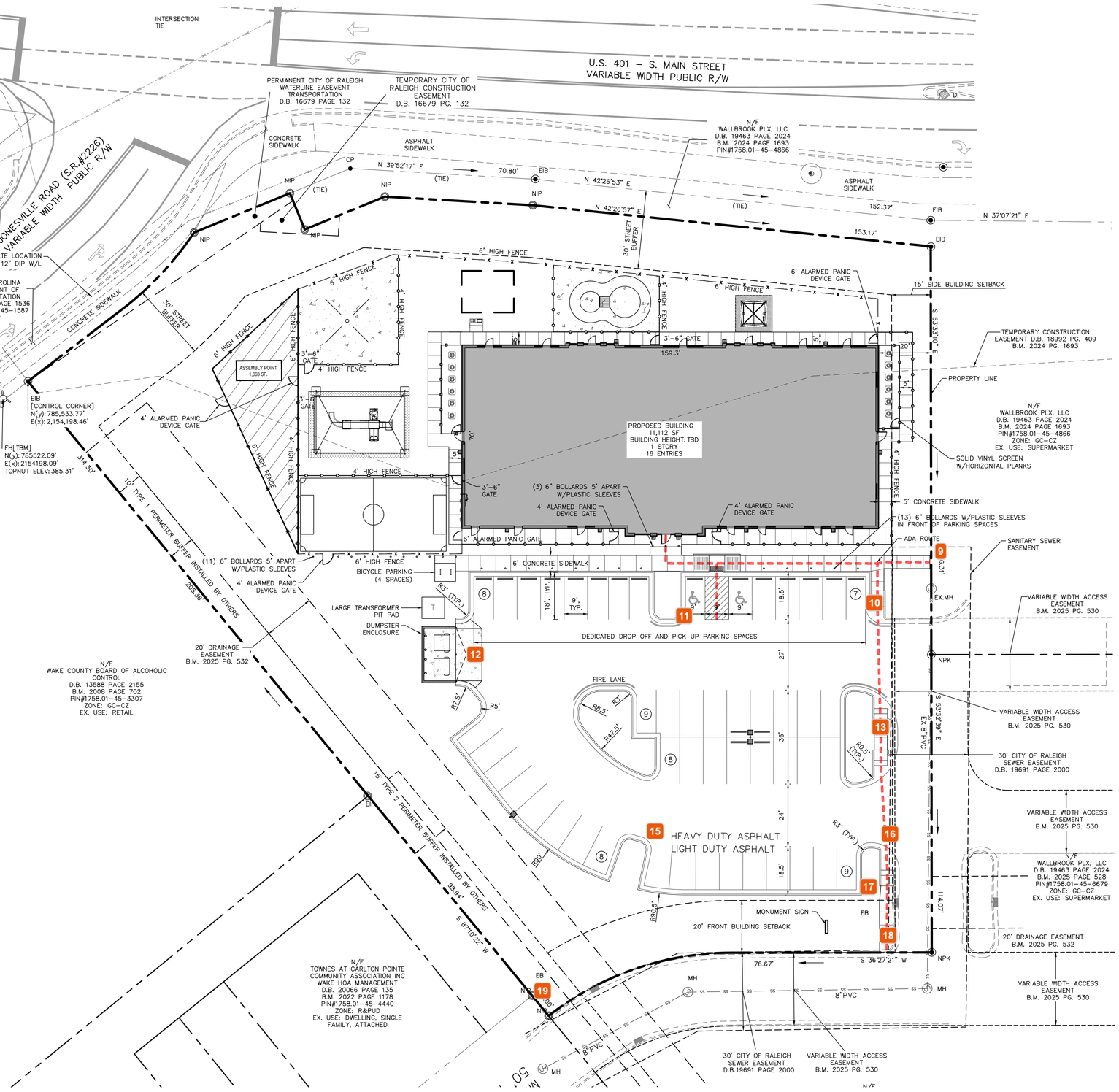

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HATCH LEGEND

- PROPOSED BUILDING
- HEAVY DUTY PAVEMENT

LINE LEGEND

- PROPERTY BOUNDARY
- ADJACENT BOUNDARY
- EXISTING R/W
- FUTURE R/W
- POND/CREEK
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(DRAWING SCALED FOR 24x36 INCH PLOTS)

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Fax: 919.839.2255
E Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By BRK
Checked By SRN

DATE:
30 JAN 2026

CONSTRUCTION DOCUMENT

SITE PLAN

Job Code SSRCC

Dwg No. SITE 200

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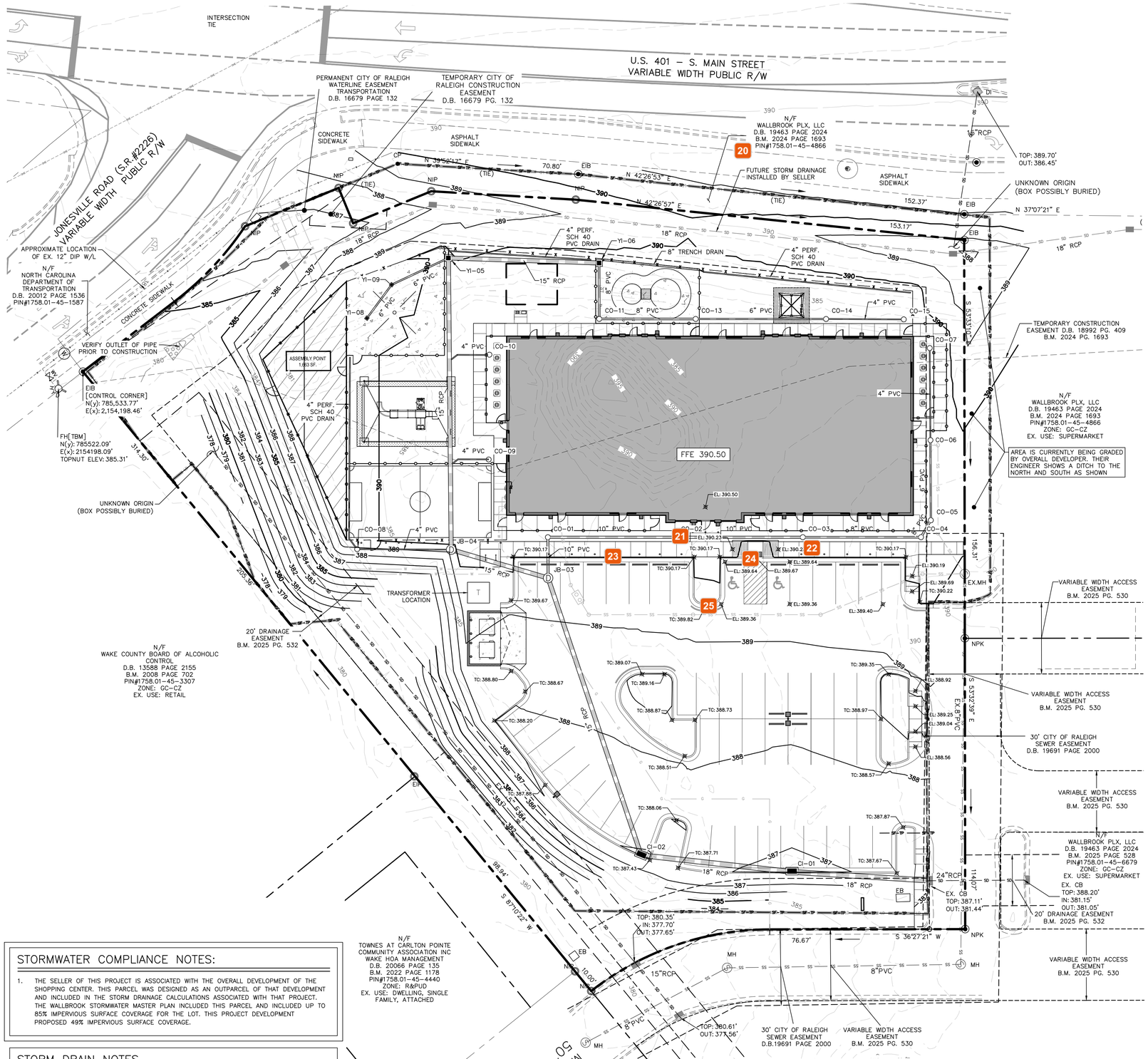

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

GRADING NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OR ANY DISCREPANCIES OR CONFLICTS.
3. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
5. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFOR SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
6. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
7. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
8. A TEMPORARY CONSTRUCTION EASEMENT WILL BE REQUIRED FROM THE ADJACENT OWNER, SONAL PATEL, 734-259-9289 PRIOR TO CONSTRUCTION. THIS DRIVEWAY IS BEING BUILT TO SERVE, BOTH PROPERTY OWNERS, WHO HAVE MET AND AGREED ON THE SHARED LOCATION.

LINE LEGEND

- PROPERTY BOUNDARY
- ADJACENT BOUNDARY
- EXISTING R/W
- FUTURE R/W
- POND/CREEK
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORMWATER
- EXISTING GAS LINE
- EXISTING OVERHEAD UTILITY
- EXISTING COMMUNICATION
- EXISTING UNDERGROUND ELECTRIC
- EXISTING TOPO MAJOR
- EXISTING TOPO MINOR
- PROPOSED TOPO MAJOR
- PROPOSED TOPO MINOR
- EXISTING CENTERLINE
- EXISTING RIPARIAN BUFFER
- EXISTING FLOOD HAZARD AREA
- EXISTING WETLAND AREA
- EXISTING FENCE
- PROPOSED STORM DRAIN LINE
- LIMITS OF DISTURBANCE
- SILT/TREE PROTECTION FENCE

STORMWATER COMPLIANCE NOTES:

1. THE SELLER OF THIS PROJECT IS ASSOCIATED WITH THE OVERALL DEVELOPMENT OF THE SHOPPING CENTER. THIS PARCEL WAS DESIGNED AS AN OUTPARCEL OF THAT DEVELOPMENT AND INCLUDED IN THE STORM DRAINAGE CALCULATIONS ASSOCIATED WITH THAT PROJECT. THE WALLBROOK STORMWATER MASTER PLAN INCLUDED THIS PARCEL AND INCLUDED UP TO 85% IMPERVIOUS SURFACE COVERAGE FOR THE LOT. THIS PROJECT DEVELOPMENT PROPOSED 49% IMPERVIOUS SURFACE COVERAGE.

STORM DRAIN NOTES

1. STORM DRAINAGE PIPING LABELED "PVC" SHALL BE SCHEDULE 40 PVC.

GRADING PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SAMUEL R. NITZ
1/30/2026

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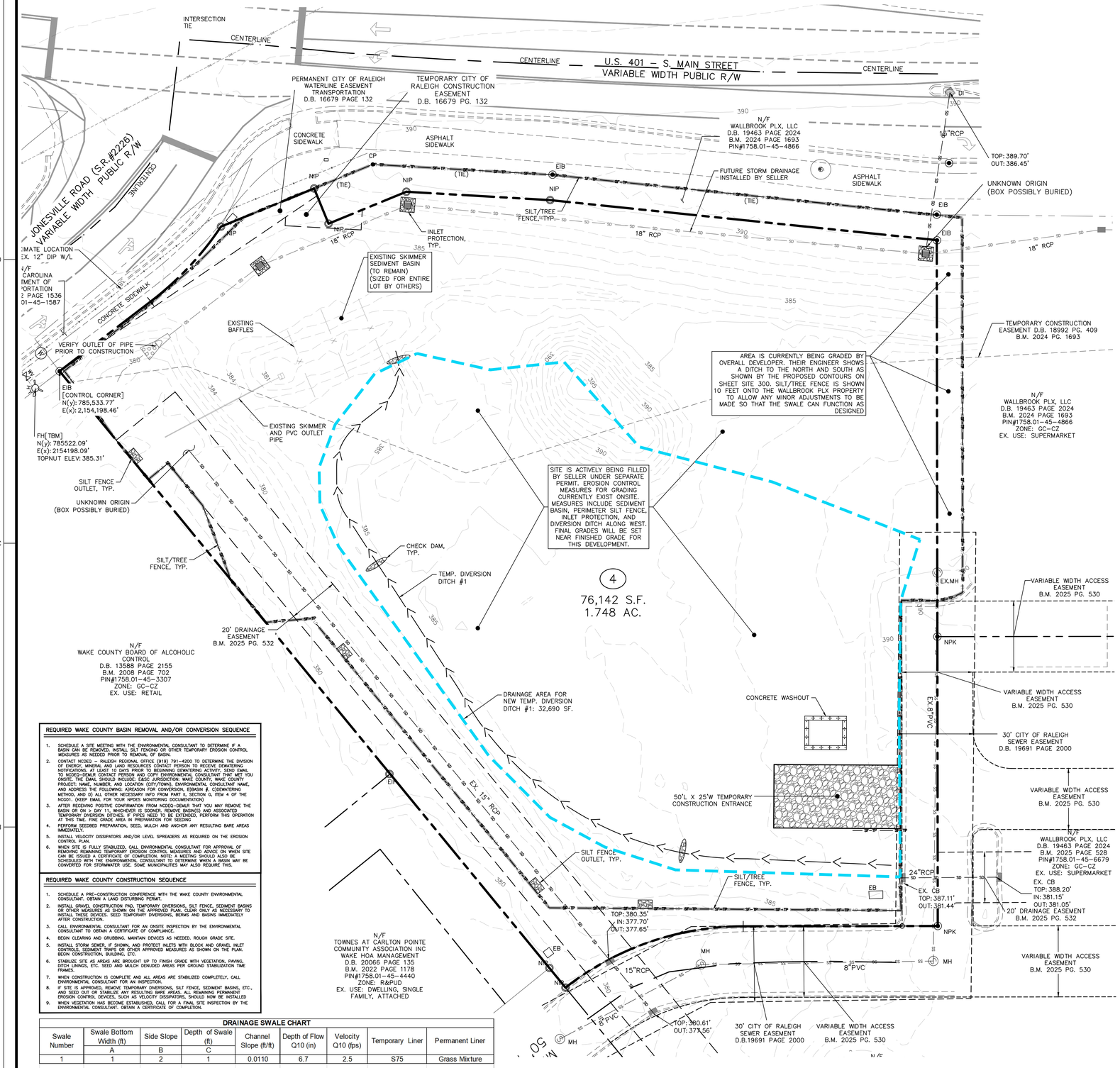

REQUIRED WAKE COUNTY BASIN REMOVAL AND/OR CONVERSION SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF BASIN.
2. CONTACT NCDEQ – RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS, AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY. SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION: WAKE COUNTY, WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A)REASON FOR CONVERSION, B)BASIN #, C)DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION)
3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY.
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET PROTECTION OR OTHER MEASURES. OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

DRAINAGE SWALE CHART

Swale Number	Swale Bottom Width (ft) A	Side Slope B	Depth of Swale (ft) C	Channel Slope (ft/ft)	Depth of Flow Q10 (in)	Velocity Q10 (fps)	Temporary Liner	Permanent Liner
1	1	2	1	0.0110	6.7	2.5	S75	Grass Mixture

NOTE: LINER MATERIAL TO BE NORTH AMERICAN GREEN/TENSAR OR APPROVED EQUAL

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH WAKE COUNTY STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OR ANY DISCREPANCIES OR CONFLICTS.
3. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
5. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
6. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
7. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
8. 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.
9. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE TOWN'S 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 TOWN'S 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.

CONSTRUCTION SEQUENCE (INITIAL PHASE):

1. OBTAIN A LAND DISTURBING PERMIT.
2. PRIOR TO BEGINNING CONSTRUCTION, CALL THE STORMWATER INSPECTOR TO SCHEDULE AN ON-SITE PRECONSTRUCTION MEETING.
3. CLEAR ONLY AS NECESSARY TO INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE INITIAL EROSION CONTROL PLAN:
   A. INSTALL CONSTRUCTION ENTRANCE.
   B. INSTALL SILT FENCING AND SILT FENCE OUTLETS.
   C. INSTALL DIVERSION DITCH.
   D. INSTALL INLET PROTECTION ON EXISTING SD STRUCTURES.
4. VERIFY EXISTING BASIN MEETINGS MINIMUM DIMENSIONS SHOWN ON PLANS, BAFFLES ARE WELL MAINTAINED, AND SKIMMER IS CLEAR AND PLACED ON EXISTING STONE BED.
8. SCHEDULE A SITE INSPECTION THROUGH WAKE COUNTY.
9. UPON APPROVAL OF THE STORMWATER SITE INSPECTION, BEGIN GRADING AND UTILITY SCOPE.
4. INSTALL U/G UTILITIES, STORMWATER PIPES, INLETS, ROAD BEDS, CURB AND GUTTER AND BEGIN BUILDING CONSTRUCITON. AS STORMDRAIN INLETS AND PIPING ARE INSTALLED, PROVIDE INLET PROTECTION. [NOTE: THAT OFFSITE SEDIMENT THROUGH THE SD NETWORK WILL GO DIRECTLY TO EXISTING WET DETENTION BASIN THAT IS INSTALLED AND CONVERTED. TAKE EXTRA CARE TO AVOID SEDIMENT GETTING INTO THE EXISTING STORM DRAINAGE SYSTEM.]
3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CAN NOT HAVE HOLES OR TEARS.
4. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
6. SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.
7. WHEN PROJECT CONSTRUCTION HAS BEEN COMPLETED TO THE POINT WHERE THE EXISTING SKIMMER BASIN MUST BE REMOVED TO CONTINUE, SCHEDULE A SITE INSPECTION THROUGH WAKE COUNTY.
8. UPON APPROVAL OF THE STORMWATER SITE INSPECTION, REMOVE THE EXISTING SEDIMENT SKIMMER BASIN AND STABILIZE BASIN AREA.
9. PROCEED TO FINAL EROSION CONTROL PLAN SCOPE OF WORK. SEE SITE 303.

EROSION CONTROL LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT LOT LINE
- CENTER LINE
- LIMITS OF DISTURBANCE
- SETBACK LINE
- EXISTING EASEMENTS
- EXISTING BUFFER LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- TREE PROTECTION FENCING
- CHECK DAM
- SILT FENCE OUTLET
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- INLET PROTECTION

DISTURBED AREA = 37,378 SF. (0.86 AC.)

NORTH

INITIAL EROSION CONTROL PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, N.C.
NC ENGINEERING LICENSE NO. P-0803
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 BRANDON D. MCKEE
1/30/2026
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851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By CJB
Checked By BDM

DATE: 30 JAN 2026

SITE DEVELOP. PLAN

INITIAL EROSION CONTROL PLAN

Job Code SSRCC

Dwg No. SITE 301

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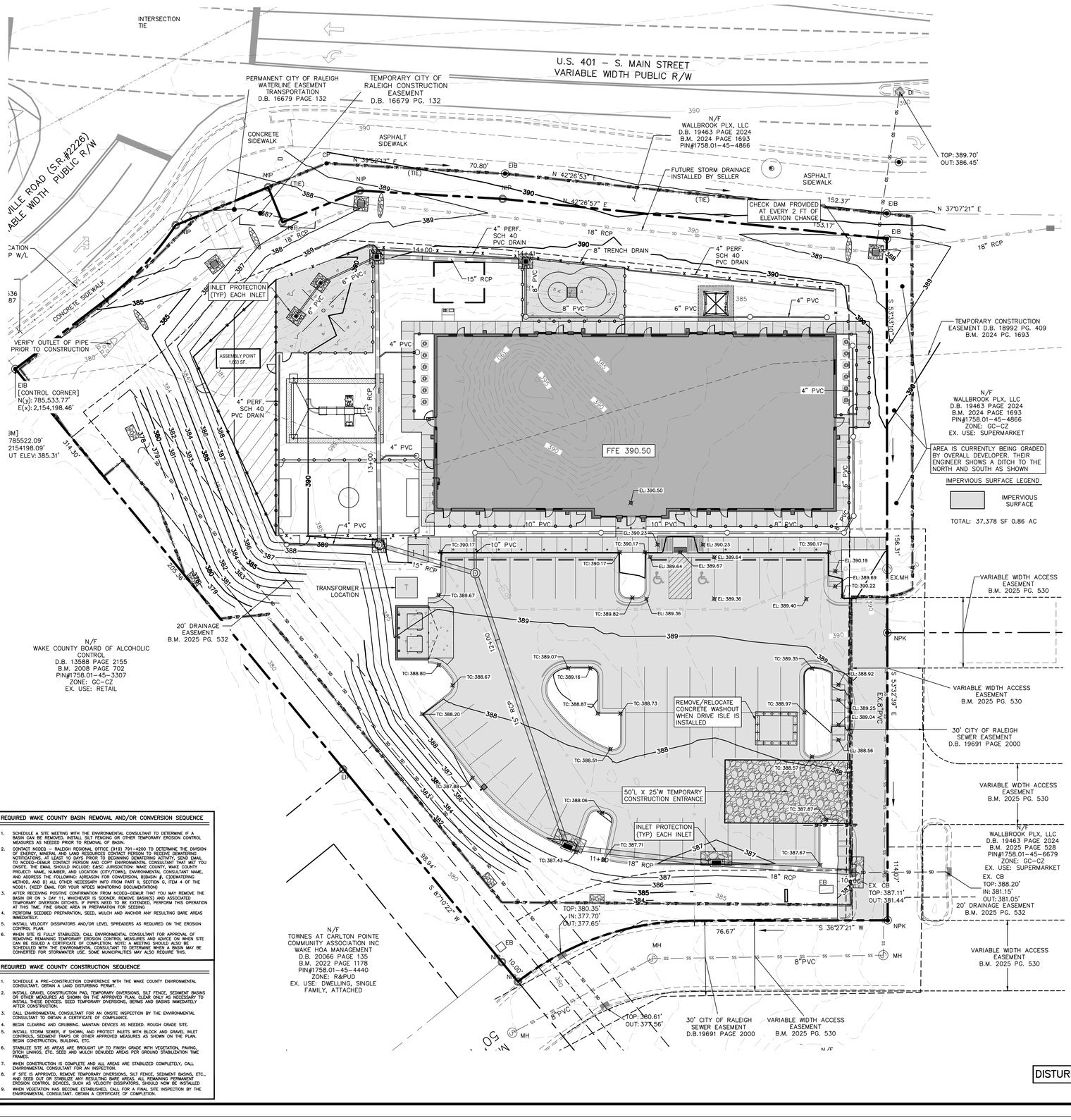

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF APEX, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY PENNONI ASSOCIATES, DATED JUNE 20, 2023. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM APPROVED PLANS FOR ARDEN AT SUMMIT PINES PUD. ADDITIONAL OFFSITE INFORMATION TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIEND VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH WAKE COUNTY STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OR ANY DISCREPANCIES OR CONFLICTS.
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6. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
7. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
8. 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.
9. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE TOWN'S 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 TOWN'S 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.

CONSTRUCTION SEQUENCE (FINAL PHASE):

CONTINUED FROM SHEET SITE 301

1. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CAN NOT HAVE HOLES OR TEARS.
2. CALL SAM NYE AT 919-835-4787 FOR SITE INSPECTION A MINIMUM TWO WEEKS PRIOR TO REQUESTING TOWN FINAL INSPECTION.
3. ONCE APPROVED, SURVEY EXISTING SCM TOPO AND STRUCTURE ELEVATIONS.
4. AS-BUILTS MUST BE COMPLETED AND SUBMITTED ONE WEEK PRIOR TO FINAL INSPECTION.
5. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
6. SCHEDULE THE FINAL SITE INSPECTION THROUGH WAKE COUNTY.
7. SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.

REQUIRED WAKE COUNTY BASIN REMOVAL AND/OR CONVERSION SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF BASIN.
2. CONTACT NCDEQ – RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO ASCERTAIN DRAWDOWN REQUIREMENTS FOR REMOVAL OF THE TEMPORARY SEDIMENTATION BASIN(S). SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION: WAKE COUNTY; WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN); ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A)REASON FOR CONVERSION, B)BASIN #, C)DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION)
3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING
4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY.
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OF STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

EROSION CONTROL LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT LOT LINE
- CENTER LINE
- LIMITS OF DISTURBANCE
- SETBACK LINE
- EXISTING EASEMENTS
- EXISTING BUFFER LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- TREE PROTECTION FENCING
- CHECK DAM
- SILT FENCE OUTLET
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- INLET PROTECTION

DISTURBED AREA = 37,378 SF. (0.86 AC.)

NORTH

FINAL EROSION CONTROL PLAN

SCALE: 1" = 40' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 40 80 120 160

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 BRADLEY M. DIMMEL
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By CJB
Checked By BDM

DATE: 30 JAN 2026

SITE DEVELOP. PLAN

FINAL EROSION CONTROL PLAN

Job Code SSRCC

Dwg No. SITE 302

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

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

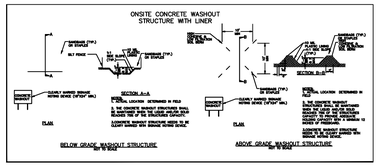
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled,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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

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



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING | EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

(a) This General Permit as well as the Certificate of Coverage, after it is received.

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

3. Documentation to be Retained for Three Years

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

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

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

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING | EFFECTIVE: 04/01/19

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CERT. NO. 353
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RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER BRANDEL R. NIX
11/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By CJB
Checked By BDM

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

NPDES PLAN

Job Code SSRCC

Dwg No.
SITE
303

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GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

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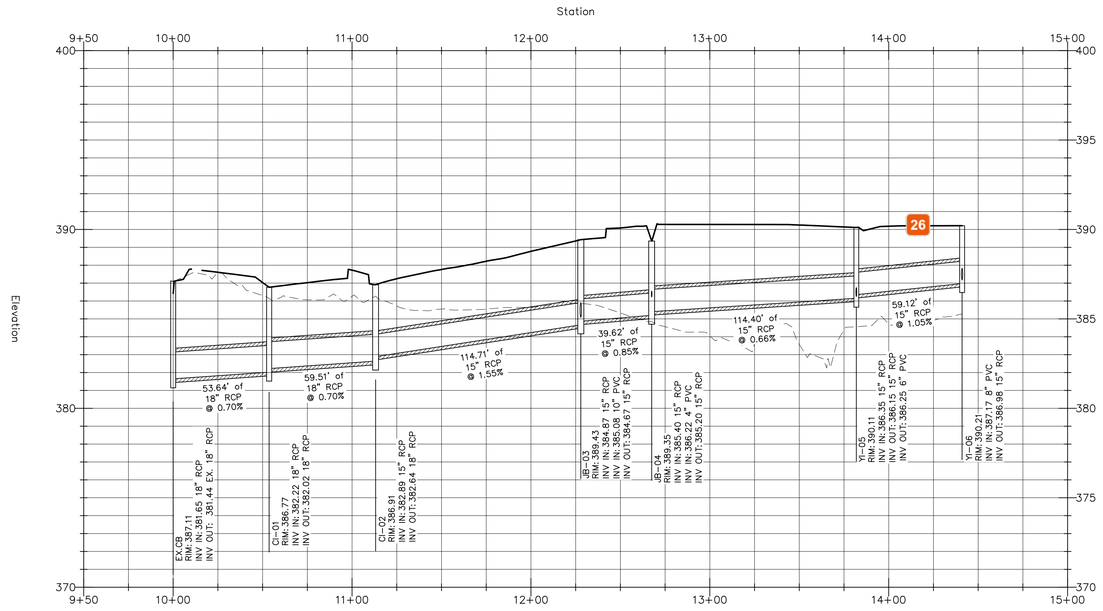

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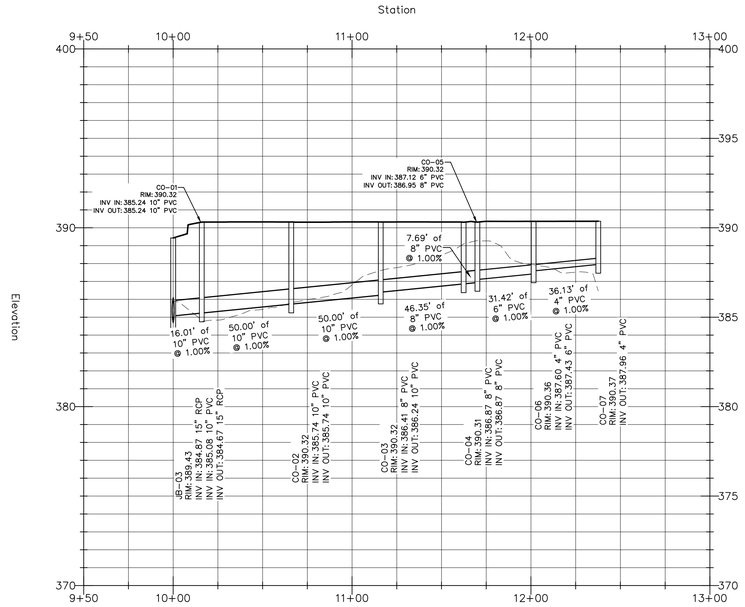

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RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SAMUEL R. NITZ
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK

551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: CJB
Checked By: BDM

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

STORM DRAINAGE PROFILES

Job Code: SSRCC

Dwg No.
SITE
304

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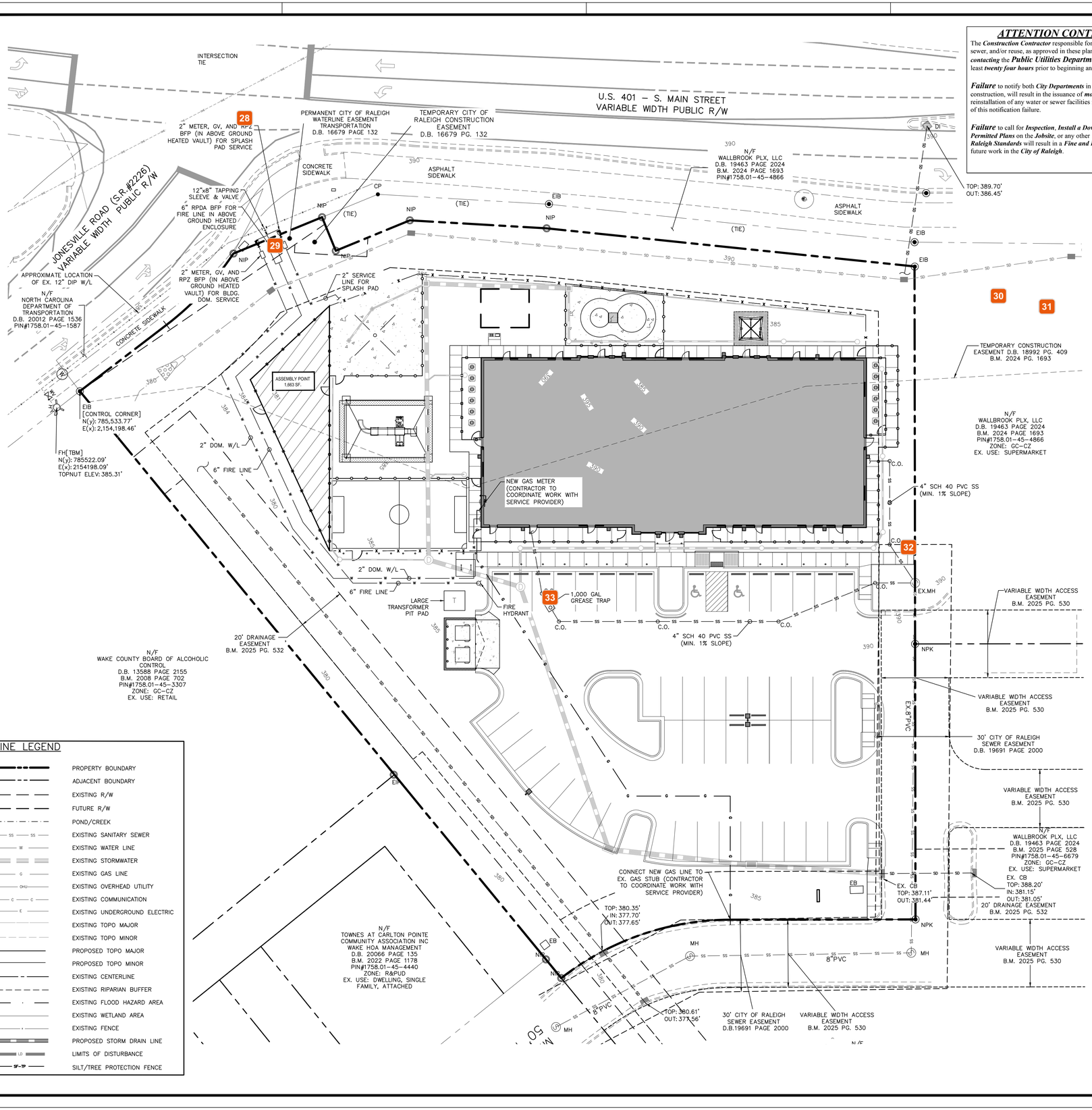

ATTENTION CONTRACTORS

The ***Construction Contractor*** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for ***contacting*** the ***Public Utilities Department*** at ***(919) 996-4540*** at least ***twenty four hours*** prior to beginning any of their construction.

Failure to notify both ***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***.

GENERAL NOTES

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4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

STANDARD UTILITY NOTES (AS APPLICABLE):

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:
   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.
   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.
   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.
   d. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
   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).
   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".

NORTH

UTILITY PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SAMUEL R. NITZ
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK
551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By	BRK
Checked By	SRN

DATE: 30 JAN 2026

SITE DEVELOP. PLAN

UTILITY PLAN

Job Code SSRCC

Dwg No. SITE 400

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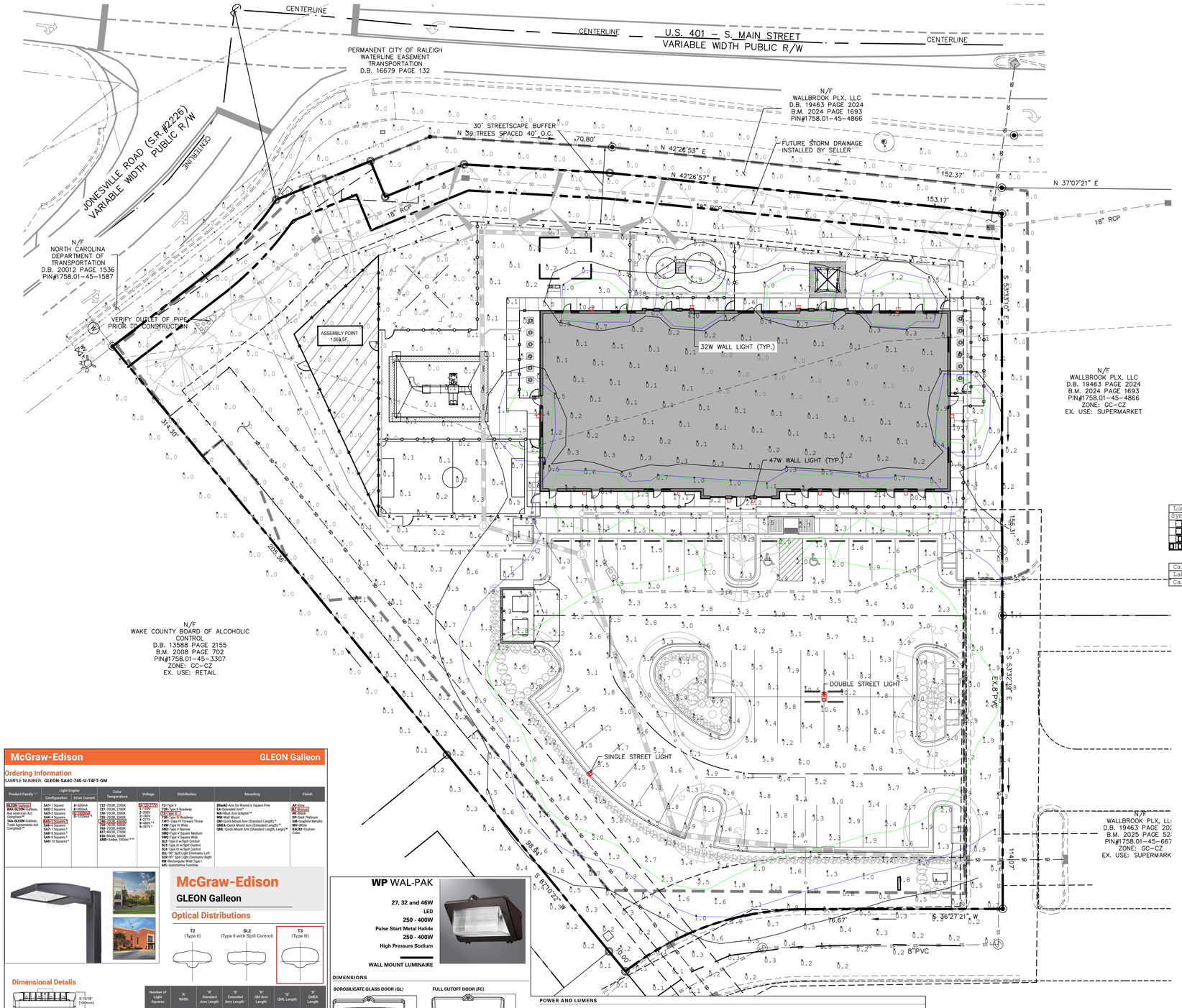
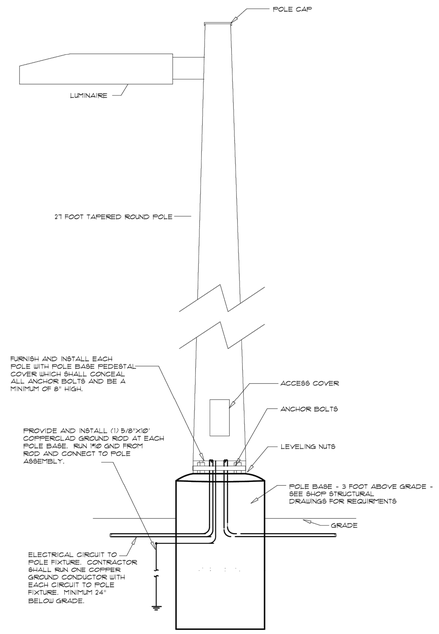




2 SE-21 POLE BASE DETAIL – POLE MOUNTED FIXTURE
NOT TO SCALE
ELEVATED POLE BASE

Luminaire Schedule							
Sym	Qty	Label	Arrangement	Mounting HT	Description	Tag	LLF
	4	LDWP-FC-4B-ED-704 1	Single	8'	LDWP-FC-4B-ED-7040	32W WALL LIGHT	1.000
	8	LDWP-FC-6B-ED-7040	Single	8'	LDWP-FC-6B-ED-7040	47W WALL LIGHT	1.000
	1	GLEON-SA5C-740-U-5WQ 1	Single	30'	GLEON-SA5C-740-U-T4W	SINGLE STREET LIGHT	1.000
	1	GLEON-SA5C-740-U-5WQ	Back-Back	30'	GLEON-SA5C-740-U-T3	DOUBLE STREET LIGHT	1.000

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Max/Avg
CalcPts 1	Illuminance	Fc	1.40	26.2	0.0	N.A.	N.A.	N.A.

LIGHTING NOTES

1. LIGHT POLES ARE TO BE LOCATED 20' (MIN) AWAY FROM CANOPY TREES.
2. LIGHT LEVELS AT RESIDENTIAL PROPERTY LINES SHALL NOT EXCEED 0.5 FC
3. LIGHT LEVELS AT PUBLIC RIGHT OF WAYS SHALL NOT EXCEED 2.0 FC
4. ANY WALL PACKS INSTALLED ON THE BUILDING MUST BE FULL CUT OFF FIXTURES.
5. FIXTURE SYMBOLS ARE ILLUSTRATIVE AND HAVE BEEN INCREASED IN SIZE.
6. DUKE ENERGY PROGRESS SERVICE IS AVAILABLE FOR THIS SITE. FINAL PHOTOMETRICS TO BE PER DUKE ENERGY LAYOUT.

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY STEWART-PROCTOR ENGINEERING & SURVEYING DATED JUNE 5, 2025. ADDITIONAL SITE INFORMATION TAKEN FROM WAKE COUNTY GIS.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A STANDARDS.

NORTH

LIGHTING PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

McGraw-Edison — GLEON Galleon

Ordering Information

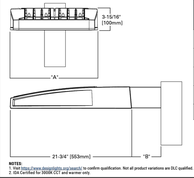
SAMPLE NUMBER: **GLEON-SA4C-740-U-T4FT-GM**

Product Family *	Light Engine: Configuration	Light Engine: Drive Current	Color Temperature	Voltage	Distribution	Mounting	Finish
GLEON Galleon **BAA-GLEON** Galleon, Buy American Act Compliant * **TAA-GLEON** Galleon, Trade Agreements Act Compliant *	**SA1**=1 Square **SA2**=2 Squares **SA3**=3 Squares **SA4**=4 Squares **SA5**=5 Squares **SA6**=6 Squares * **SA7**=7 Squares * **SA8**=8 Squares * **SA9**=9 Squares * **SA10**=10 Squares *	**A**=400mA **B**=800mA **C**=1000mA **D**=1200mA *	**727**=727K, 2700K **730**=730K, 3000K **735**=735K, 3500K **740**=740K, 4000K **750**=750K, 5000K **757**=757K, 5700K **827**=827K, 2700K **830**=830K, 3000K **AMB**=Amber, 590nm *	**UNIVERSAL** **U**=120V-277V **H**=347V-480V **3**=120V **4**=277V **8**=480V * **9**=347V *	**T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SNV**=Type V Narrow **SNM**=Type V Square Medium **SNW**=Type V Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type II **AFL**=Automotive Frontline	**(Blank)**=Arm for Round or Square Pole **EA**=Extended Arm * **MA**=Mast Arm Adapter * **QA**=QML Arm **QM**=Quick Mount Arm (Standard Length) * **QMEA**=Quick Mount Arm (Extended Length) * **QML**=Quick Mount Arm (Standard Length, Large) *	**AP**=Grey **BLC**=Black **BR**=Bronze **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **RAL9X**=Custom Color

McGraw-Edison
GLEON Galleon

Optical Distributions

Dimensional Details



Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length	"F" QM Arm Length	"G" QML Length	"H" QMEA Length
1-4	15-1/2"	7"	10"	10-5/8"	--	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	--	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	10-5/16"	--
9-10	33-3/4"	7"	16"	--	10-5/16"	--

NOTES:
1. Visit http://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. Not Certified for DSSA CCT and wattage only.

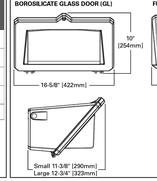
WP WAL-PAK

27, 32 and 46W
LED
250 - 400W
Pulse Start Metal Halide
250 - 400W
High Pressure Sodium

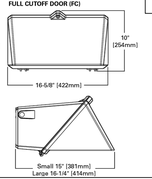
WALL MOUNT LUMINAIRE

DIMENSIONS

BOROSILICATE GLASS DOOR (GL)



FULL CUTOFF DOOR (FC)



POWER AND LUMENS

Catalog Number	Lumens	Power Consumption (Watts)	B.U.G. Rating	Correlated Color Temperature CCT (Kelvin)	Color Rendering Index (CRI)
Full Cutoff Door (FC)					
LDWP-FC-3B-ED-7040	1,884	27W	B1-U0-G1	4000K	72
LDWP-FC-4B-ED7040	2,239	32W	B1-U0-G1	4000K	73
LDWP-FC-6B-ED-7040	3,137	47W	B1-U0-G1	4000K	73

Product Family *	Lamp Type	Door Type *	Lamp Wattage *	Voltage *
WP=Wal-Pak BAA-WP=Wal-Pak, Buy American Act Compliant *, TAA-WP=Wal-Pak, Trade Agreements Act Compliant *	LED=Solid State Light-Emitting Diodes (LED) * † HP=High Pressure Sodium MP=Pulse Start Metal Halide	GL=Borosilicate Glass Door FC=Full Cutoff Door	LED 3B=(3 Package), 27W 4B=(4 Package), 32W 6B=(6 Package), 46W HP 250=250W 400=400W	120V=120V 208V=208V 240V=240V 277V=277V 347V=347V † 480V=480V * DT=Dual-Tap

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NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 BRANDEL R. MITCHELL 1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By BDM

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

LIGHTING PLAN

Job Code SSRCC

Dwg No.
SITE
401

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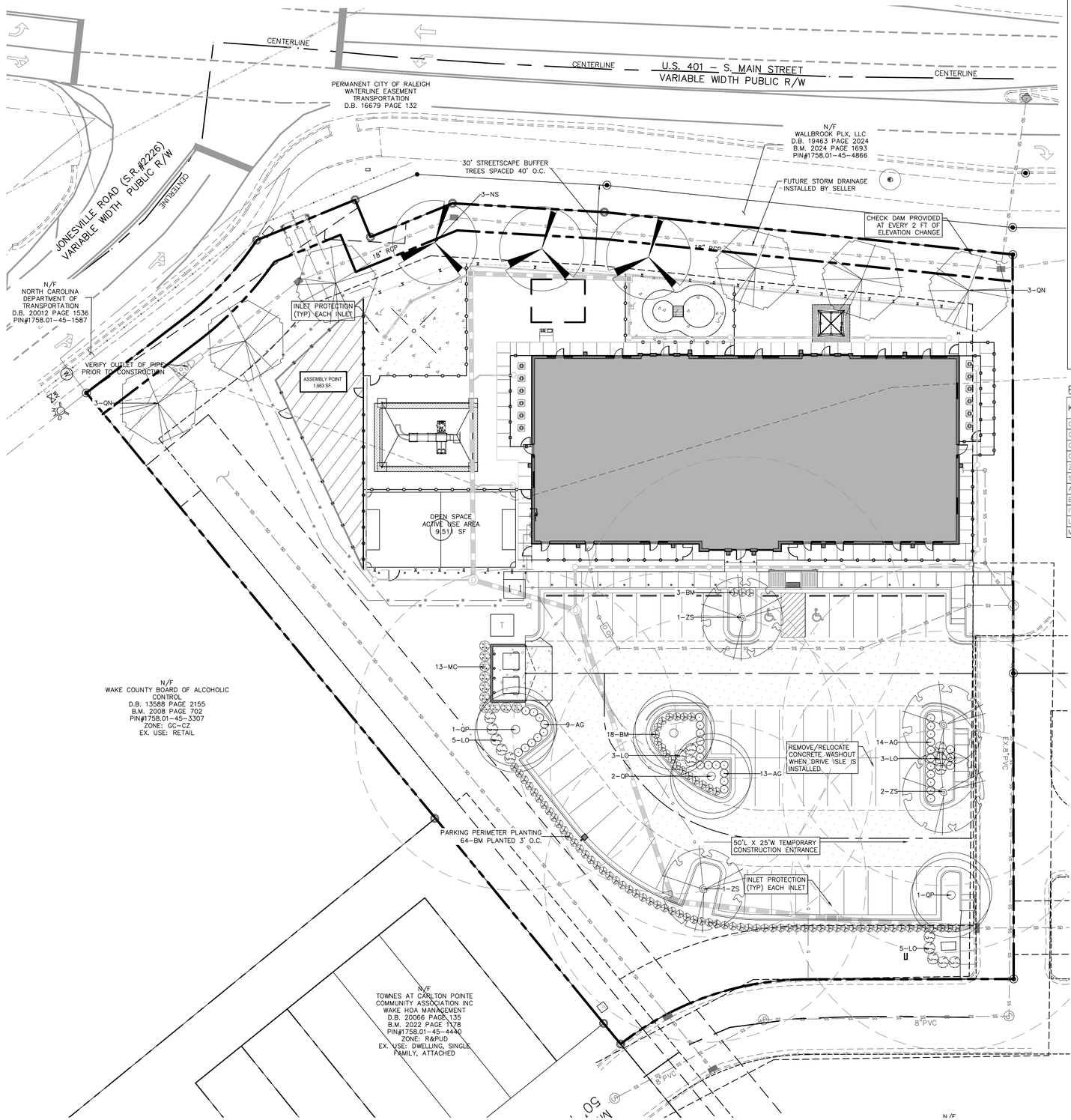

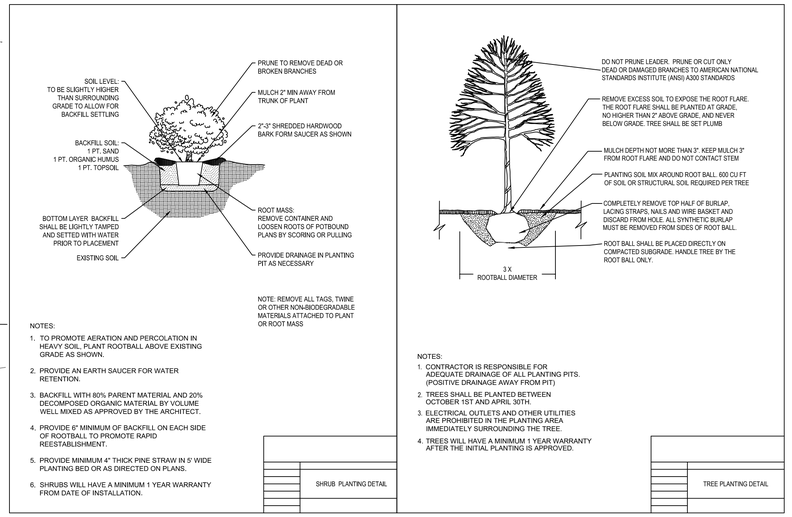

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SIZE	ROOT	SPACING	NATIVE STATUS	MATURE HT./SPRD
CANOPY TREES									
QL	3	NYSSA SYLVATICA 'WILDFIRE'	BLACK GUM	12" HT. MIN.	3" CAL.	B&B	40' MAX	NATIVE	50'/40'
QN	6	QUERCUS NUTTALLII	NUTTALL OAK	12" HT. MIN.	3" CAL.	B&B	40' MAX	NATIVE	60'/40'
QP	4	QUERCUS PHELLOS	WILLOW OAK	12" HT. MIN.	3" CAL.	B&B	AS SHOWN	NATIVE	60'/40'
ZS	4	ZELKOVA SERRATA 'VILLAGE GREEN'	JAPANESE ZELKOVA	12" HT. MIN.	3" CAL.	B&B	AS SHOWN	NON-NATIVE	50'/40'
SHRUBS									
AG	36	ABELIA GRANDIFORA 'ROSE CREEK'	ROSE CREEK ABELIA	24" HT. MIN.		CONT.	AS SHOWN	NON-NATIVE	3'/4'
BM	85	BUXUS MICROPHYLLA VAR. JAPONICA 'WINTER GEM'	WINTERGEM BOXWOOD	24" HT. MIN.		CONT.	3' O.C.	NON-NATIVE	5'/5'
IVS	17	ILEX VOMITORIA 'SCHILLINGS'	DWARF YAUPON HOLLY	24" HT. MIN.		CONT.	4' O.C.	NATIVE	3'/4'
LO	16	LOROPETALUM CHINENSIS 'RUBY'	CHINESE FRINGE FLOWER	24" HT. MIN.		CONT.	AS SHOWN	NON-NATIVE	5'/5'
MC	10	MYRICA CERIFERA	SOUTHERN WAX MYRTLE	36" HT. MIN.		CONT.	AS SHOWN	NATIVE	15'/10'

PLANTING NOTES:

LOCATE PLANTS AND PLANTING BEDS BY USING SCALED DIMENSIONS FROM STREET, PROPERTY LINES, BACK OF CURB, BUILDINGS, WALLS, ETC. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET BY THE U.S.D.A. FOR NURSERY STOCK SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., WASHINGTON, D.C. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND/OR THE LANDSCAPE ARCHITECT.

SYMBOLS: B&B = BALLED & BURLAPPED; B.R. = BARE ROOT; CONT. = CONTAINER, O.C. = ON-CENTER, (R) = TO REMAIN

MULCH: MULCH ALL BED AREAS WITH SHREDDED PINE MULCH TO A DEPTH OF 3".

NOTE:

1. NO PORTION OF ANY PARKING SPACE SHALL BE LOCATED MORE THAN SIXTY (60) FEET FROM AN ON-SITE LARGE (CANOPY) TREE. FOR PURPOSES OF THIS SECTION, THE MEASUREMENT SHALL BE FROM THE CLOSEST EDGE OF THE SUBJECT AREA TO THE CENTER OF THE BASE OF THE CLOSEST QUALIFYING TREE IN ACCORDANCE WITH SEC 6.2.4.4 OF THE LDO.
2. ALL SHRUB SPECIES SHALL REACH A MINIMUM OF 36" WITHIN THREE YEARS OF INSTALLATION.
3. MINIMUM PLANT SIZES SHALL BE IN ACCORDANCE WITH THE SECTION 6.2.4.3 OF THE LDO AS FOLLOWS:

PLANTING MATERIAL TYPE	MINIMUM PLANTING SIZE
DECIDUOUS CANOPY TREE (≥ 35' HT, ≥ 30' SPREAD)	3" CALIPER, 12' HT
EVERGREEN SHRUB	24" HT

4. DUMPSTER SHALL BE ENCLOSED ON 3 SIDES IN ACCORDANCE WITH SECTION 6.2.4.6.
5. NO TREES OR SHRUBS SHALL BE PLANTED WITHIN SANITARY SEWER, WATERLINE, OR ELECTRIC EASEMENTS WITHOUT THE TOWN AND EASEMENT HOLDER APPROVAL.
6. LANDSCAPING SHALL BE COMPLIANT WITH SECTION 6.2.4.
7. MINIMUM 3 FEET CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE BUILDING CODE.

LANDSCAPE REQUIREMENTS:

1. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
2. ALL MECHANICAL EQUIPMENT, WASTE DISPOSAL FACILITIES, AND VEHICULAR USE AREAS (DRIVES AND PARKING) SHALL BE SCREENED FROM PUBLIC VIEW.
3. ALL ABOVE GROUND UTILITY EQUIPMENT AND FACILITIES ASSOCIATED WITH ON-SITE ELECTRIC, CABLE, TELEPHONE, GAS OR OTHER SIMILAR UTILITY SHALL BE LOCATED IN THE SIDE OF REAR YARD AREA OF THE SITE AND SCREENED, TO THE EXTENT POSSIBLE, WITH EVERGREEN PLANTINGS. PLANTINGS SHALL ALLOW FOR A MINIMUM OF 5' CLEARANCE AROUND THE STRUCTURE TO ALLOW FOR ACCESS. ADDITIONALLY, ANY SIDE OF THE STRUCTURE HAVING A DOOR OR LOCK, THE PLANTINGS SHALL ALLOW FOR A 10' CLEARANCE. THE AMOUNT OF CLEARANCE SHALL ACCOUNT FOR THE SIZE OF THE PLANT MATERIAL AT MATURITY.
4. THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHANG FROM THE BACK OF CURB.
5. NO TREE SHALL BE LOCATED WITHIN A ROADWAY RIGHT OF WAY OR WITHIN 5' OF A SIDEWALK AND WITHIN 20' OF A LIGHTING LOCATION.
6. ALL SHRUBS INSTALLED AS VEHICULAR USE SCREENING WILL BE MAINTAINED AS A CONTINUOUS HEDGE AT A MINIMUM HEIGHT OF 36 INCHES.
7. WHERE EXISTING OR PROPOSED VEGETATION FAILS TO FUNCTION ADEQUATELY AS REQUIRED, THE CITY OF RALEIGH SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL PLANTINGS IN ADDITION TO THOSE SHOWN ON THE LANDSCAPE PLAN BASED ON ACTUAL FIELD CONDITIONS.
8. UPON ESTABLISHMENT OF FINISHED GRADES AND PRIOR TO BEGINNING INSTALLATION OF ANY TREES, A SOIL AMENDMENT SCHEDULE FOR ALL TREE PLANTINGS SHALL BE PREPARED BY A CERTIFIED LANDSCAPE ARCHITECT.
9. THE PROPERTY OWNER OR DEVELOPER SHALL PROVIDE FOR CONTINUOUS MAINTENANCE OF THE LANDSCAPE AREAS AFTER OCCUPANCY OF THE BUILDING. THE PROPERTY OWNER SHALL ENSURE THAT PERFORMANCE CRITERIA WITHIN THIS ORDINANCE AND/OR INCLUDED ON THE APPROVED SITE AND/OR SUBDIVISION PLAN ARE MET. FAILURE TO CORRECT DEFICIENCIES IN

NORTH

LANDSCAPE PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1419 BRANDON D. SCOTT
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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
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Drawn By LLF
Checked By BDM

DATE:
PROGRESS

SITE DEVELOP. PLAN

LANDSCAPE PLAN

Job Code SSRCC

Dwg No.
SITE
500

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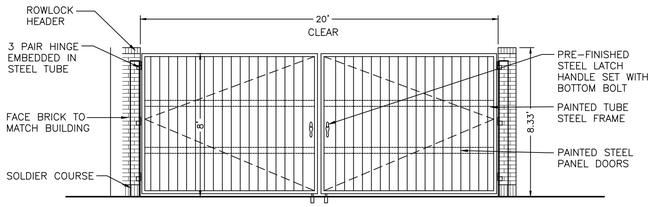
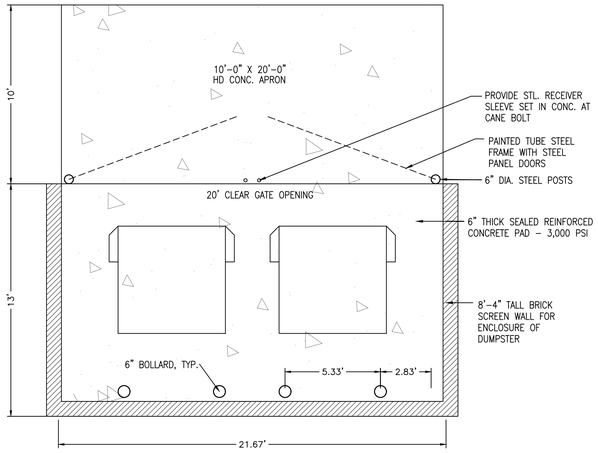
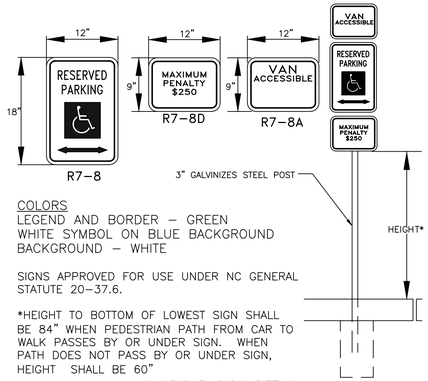




TRASH ENCLOSURE DETAIL
SCALE: 1/4"=1'-0"

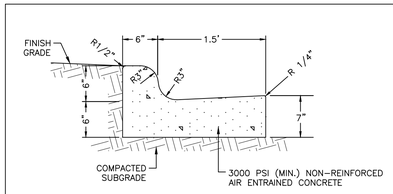


COLORS
LEGEND AND BORDER – GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND – WHITE

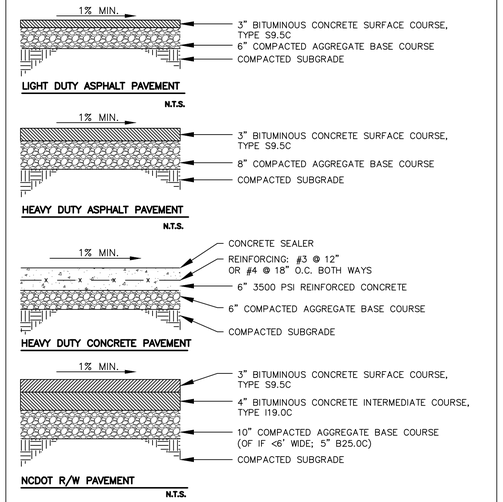
SIGNS APPROVED FOR USE UNDER NC GENERAL STATUTE 20-37.6.

*HEIGHT TO BOTTOM OF LOWEST SIGN SHALL BE 84" WHEN PEDESTRIAN PATH FROM CAR TO WALK PASSES BY OR UNDER SIGN. WHEN PATH DOES NOT PASS BY OR UNDER SIGN, HEIGHT SHALL BE 60"

HANDICAP SIGN DETAIL
N.T.S.

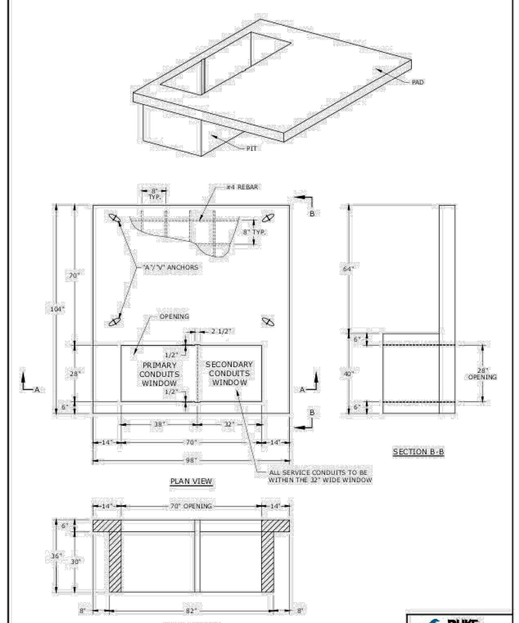


24" CONCRETE CURB & GUTTER
(TYPICAL ON SITE) NTS



TYPICAL PAVING SECTIONS
N.T.S.

NOTE:
FINAL PAVEMENT SECTIONS TO BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

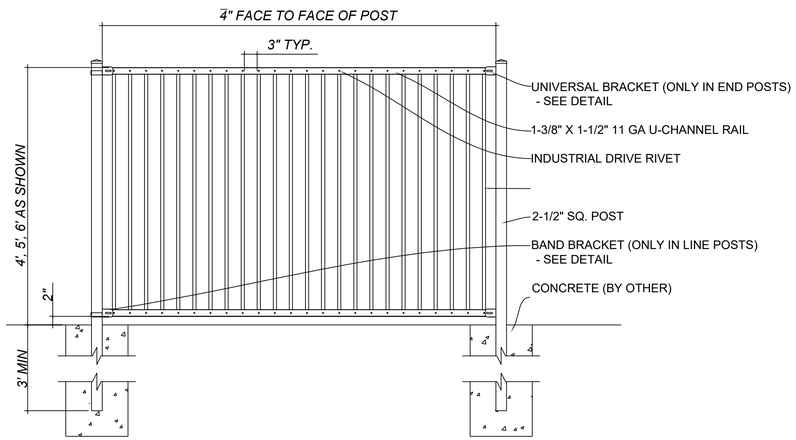


LARGE PIT PAD SPECIFICATIONS

DUKE ENERGY.

DEC	DEM	DEP	DEF
X		X	

PAGE 4



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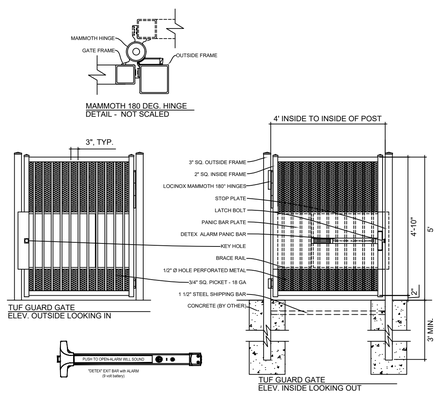
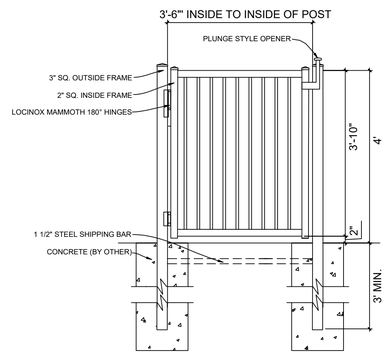
Merchants Metals®
the first name in fence solutions



*IF PERMITTED BY LOCAL AHJ OTHERWISE PANIC DEVICE WITH LEVER HANDLE



NOTES:
1. SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
2. ALL COMPONENTS OF THE PANEL TO BE COATED BLACK.
3. VERIFY POST DEPTH AND FOOTING DIMENSIONS WITH LOCAL CODES AND SITE CONDITIONS.

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NITZ
1/30/2026

THE SITE GROUP
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E Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE
600

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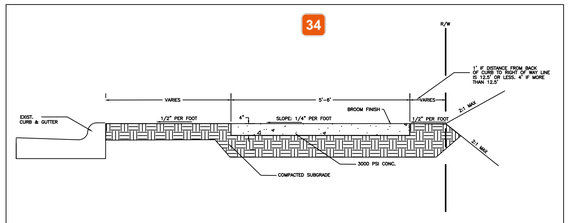


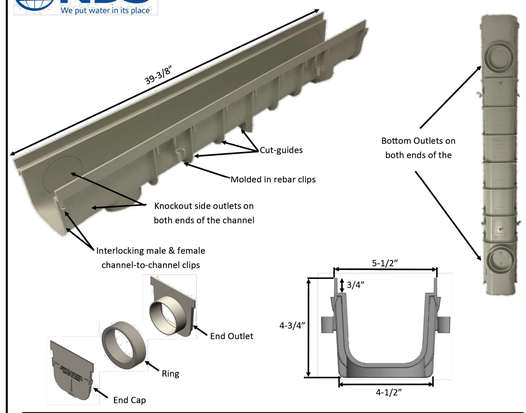
TYPICAL SIDEWALK SECTION DETAIL
NO SCALE

NOTE: CONSTRUCTION TO CONFORM TO CITY OF RALEIGH STANDARD AND SPECIFICATIONS

PROJECT NAME: | FILE # TS_PS_5IN_CHANNEL_KIT-864

NDS We put water in its place

TECHNICAL SPECIFICATION



PART NUMBER	SIZE	MATERIAL	WEIGHT
864	5-1/2" X 4-3/4" X 39-3/8"	POLYPROPYLENE W/ UV INHIBITORS	3.03LBS

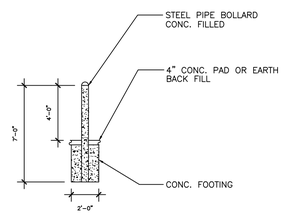
SPECIFICATION:
- 5" WIDE DEEP PROFILE CHANNEL DRAIN WITH MECHANICAL INTERLOCKING JOINTS.
- INTEGRATED KNOCKOUT BOTTOM OUTLETS THAT FIT 3" AND 4" SEWER AND DRAIN FITTINGS
- SIDE OUTLET KNOCKOUTS THAT FIT 3" SEWER AND DRAIN PIPE
- MOLDED REBAR CLIPS TO FIT #4 (1/2") REBAR

KIT INCLUDES: CHANNEL #800 (QTY. 1)
LIGHT GRAY PLASTIC GRATE #814 (QTY. 2)
END CAP #812 (QTY. 1)
END OUTLET WITH RING #813 (QTY. 1)
GRATE SCREWS #829 (QTY. 8)

5" PRO SERIES CHANNEL DRAIN KIT
WITH PLASTIC GRATE—#864

FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT techservice@ndspro.com, DESIGN ASSISTANCE- designworx@ndspro.com
851 N. HARVARD AVE. LINDSAY, CA 93247 WWW.NDSPRO.COM 1-800-726-1994

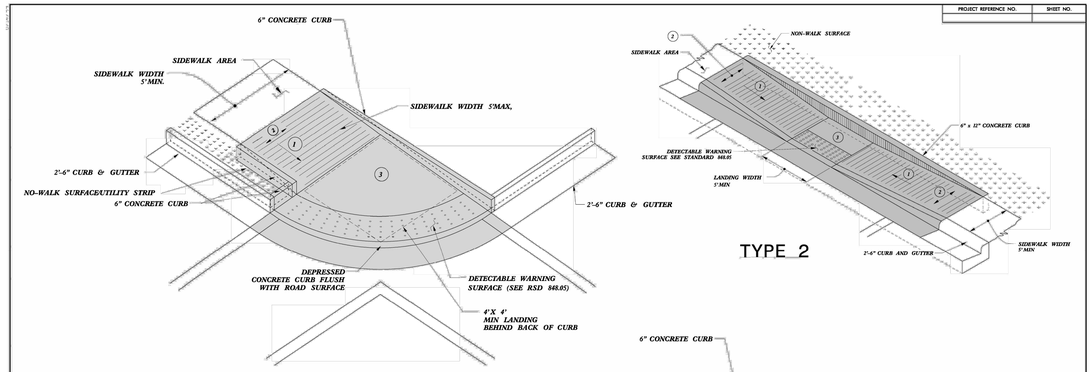
Rev—07/26/2022



6" BOLLARD
SCALE: NTS

NOTES:
1. INSTALL 6" DIA. CONC. FILLED STEEL BOLLARDS 48" HIGH ABOVE GRADE. SET IN 24" DIA. CONC. FILLED CYLINDER 36" DEEP.
2. COAT STEEL PIPE WITH MIN. 2 COATS EPOXY BASED YELLOW REFLECTIVE PAINT TO T.O. CONCRETE FOOTING.

PROJECT REFERENCE NO. | SHEET NO.



1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00%
3. CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

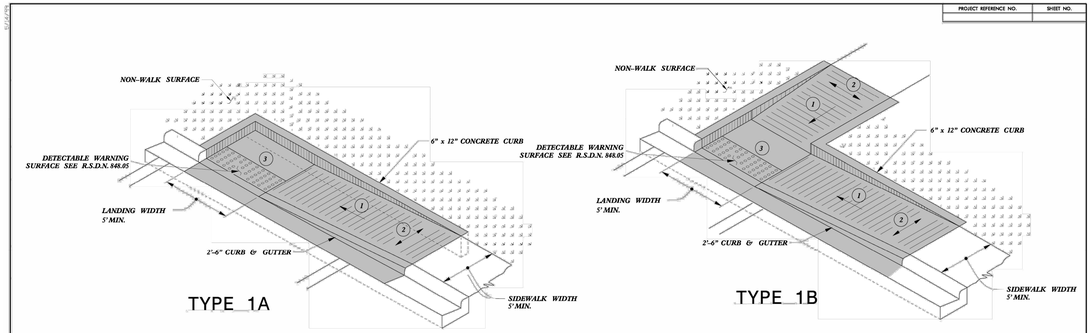
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: N:\ds\2012CurbRamp\CurbRampDetails.dgn

PROJECT REFERENCE NO. | SHEET NO.



1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00%
3. CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS
Directional Ramps

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: N:\ds\2012CurbRamp\CurbRampDetails.dgn

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CERT. NO. 353
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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE 601

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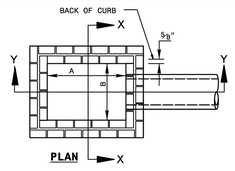
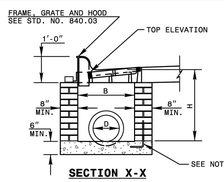
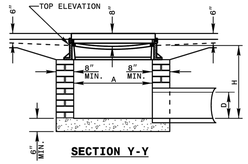
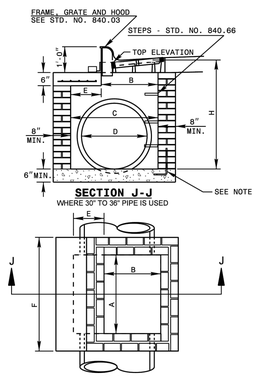
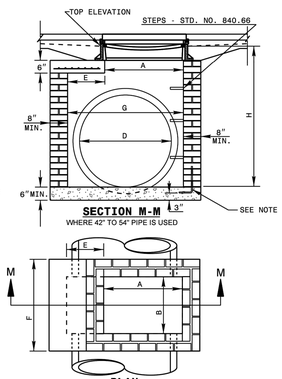


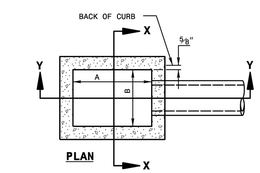


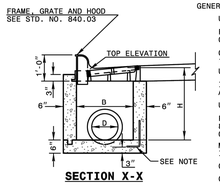
NOTES: MORTAR JOINTS ½" +/- ⅛" THICK.
USE CLASS "B" CONCRETE THROUGHOUT.
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
USE #4 BAR DOWELS AT 12" CENTERS FOR ALL PIPE SIZES.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUANTITES TO BE ADJUSTED ACCORDINGLY.
MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH OF PRECAST BOX IF USED.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.



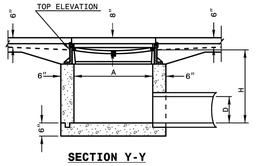


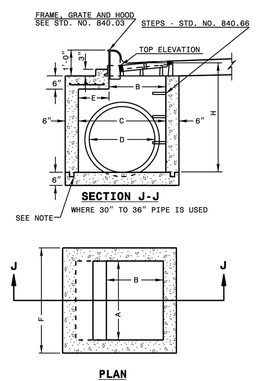


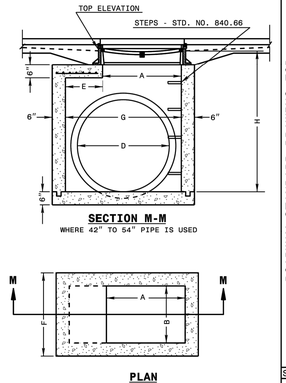




GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE 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.







CURB AND GUTTER WITH CATCH BASIN ON STEEP GRADES

NORMAL CURB AND GUTTER ON LIGHT GRADES

NORMAL CURB AND GUTTER ON STEEP GRADES

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

DIMENSIONS OF BOX AND PIPE						TOP SLAB DIMENSIONS		BARS-U		BARS-V		BARS-W			CU.YDS. CONC. IN BOX		BRICK MASONRY		DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	TOTAL LBS.	TOP SLAB	BOTTOM CONC.	BRICK MSNRY. IN WALLS	TOTAL BRICK AND CONCRETE	C.M.	R.C.
D	A	B	C	G	H	E	F													
12"	3'-0"	2'-2"	--	--	2'-9"	--	--	--	--	--	--	--	--	--	--	0.281	0.281	0.883	1.164	0.020	0.042
15"	3'-0"	2'-2"			3'-0"											0.281	0.281	0.963	1.244	0.031	0.047
18"	3'-0"	2'-2"			3'-3"											0.281	0.281	1.043	1.324	0.044	0.065
24"	3'-0"	2'-2"			3'-9"											0.281	0.281	1.204	1.485	0.078	0.121
30"	3'-0"	2'-2"	3'-4"		4'-3"	1'-2"	4'-4"	4	1'-6"	3	4'-1"	3	4'-1"	45	0.147	0.374	0.521	1.606	2.217	0.122	0.184
36"	3'-0"	2'-2"	3'-10"		4'-9"	1'-8"	4'-4"	4	2'-0"	4	4'-1"	3	4'-1"	49	0.187	0.415	0.602	1.914	2.516	0.176	0.261
42"	3'-0"	2'-2"		4'-5"	5'-3"	1'-5"	3'-6"	4	1'-9"	3	3'-3"	3	3'-3"	38	0.135	0.373	0.508	2.152	2.660	0.240	0.371
48"	3'-0"	2'-2"		5'-0"	5'-9"	2'-0"	3'-6"	4	2'-6"	4	3'-3"	3	3'-3"	41	0.173	0.410	0.583	2.415	2.998	0.313	0.477
54"	3'-0"	2'-2"		5'-7"	6'-3"	2'-7"	3'-6"	4	3'-0"	6	3'-3"	3	3'-3"	47	0.211	0.448	0.659	2.806	3.465	0.396	0.595

* RISER HAS .321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT

CURB AND GUTTER WITH CATCH BASIN ON STEEP GRADES

NORMAL CURB AND GUTTER ON LIGHT GRADES

NORMAL CURB AND GUTTER ON STEEP GRADES

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			CU.YDS. CONC. IN BOX		DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT					NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	TOTAL LBS.	TOP SLAB	BOTTOM SLAB	C.M.	R.C.
D	A	B	C	G	H	E	F													
12"	3'-0"	2'-2"			2'-9"	--	--	--	--	--	--	--	--	--	--	--	--	0.235	0.015	0.026
15"	3'-0"	2'-2"			3'-0"													0.235	0.023	0.036
18"	3'-0"	2'-2"			3'-3"													0.235	0.033	0.049
24"	3'-0"	2'-2"			3'-9"													0.235	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

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RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SCOTT R. NIELSEN
1/30/2026

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE
602

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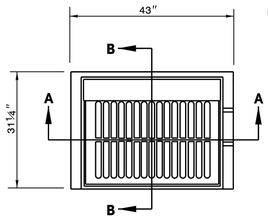
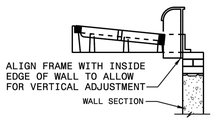


PLAN

FRAME,GRATE, & HOOD ASS'Y

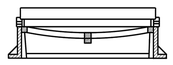
NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.



SECTION - BB

SECTION - LL

SECTION - MM



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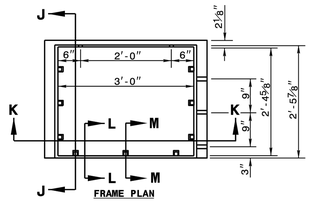
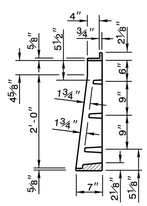


FRAME PLAN



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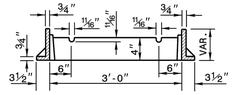

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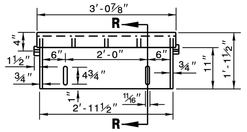
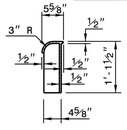


HOOD ELEVATION



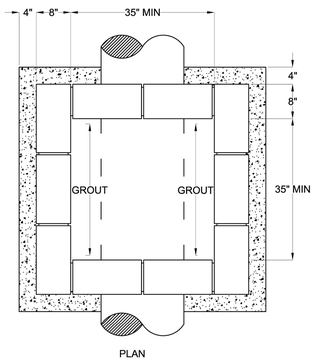
SECTION - RR

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

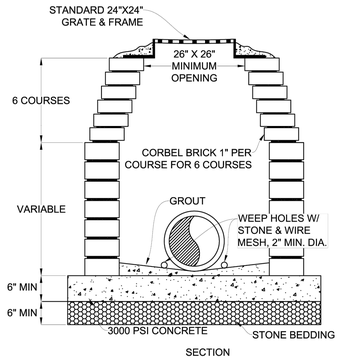
1-24

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

SHEET 1 OF 2
840.03



PLAN



SECTION

NOTE:
1. EITHER SOLID BLOCK, CONCRETE, OR PRECAST CONCRETE MAY BE USED.
2. FOR 24" R.C.P. AND LARGER--USE PIPE DIA PLUS 12" FOR MINIMUM INSIDE DIMENSION.
3. CAST IN PLACE DESIGNS TO BE SUBMITTED.

YARD INLET W/ GRATE & FRAME

STD. NO. 500.02
SHEET 1 OF 1

DETAIL SHOWING TYPES OF GRATES USE ACCORDING TO WATER FLOW.

SECTION A-A

SECTION B-B

TYPE - E

TYPE - F

SECTION A-A

TYPE G

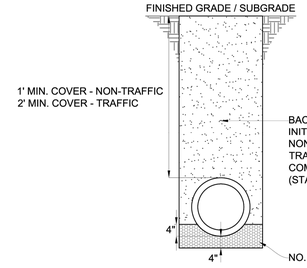
SECTION A-A

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

1-24

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

SHEET 2 OF 2
840.03



NOTES:

1. EXCAVATE TO 4 INCHES BELOW THE PROPOSED PIPE ELEVATION.
2. PROVIDE 4 INCHES STONE BEDDING AND 4 INCHES STONE BACKFILL.
3. WHERE BELL AND SPIGOT PIPE IS USED, PROVIDE RECESSES TO RECEIVE PIPE BELL.
4. UNDERCUT UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER AND BACKFILL WITH STONE OR OTHER APPROVED MATERIAL.
5. WHERE NECESSARY, TEMPORARILY DIVERT SURFACE WATER TO MAINTAIN A DRY CONDITION IN THE PIPE FOUNDATION. DIRECT THIS TEMPORARY FLOW INTO SUITABLE EROSION CONTROL DEVICES.

STORM DRAIN PIPE BEDDING & BACKFILLING

STD. NO. 500.09
SHEET 1 OF 1

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, N.C.

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NIX
1/30/2026

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Job Code SSRCC

Dwg No.
SITE 603

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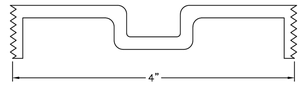
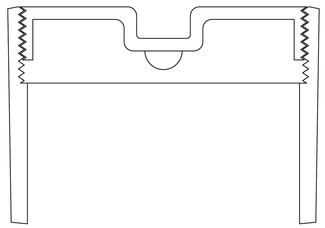


STANDARD 4" BRONZE CLEANOUT PLUG

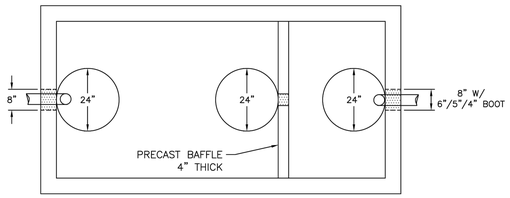


CLEANOUT FERRULE WITH PLUG

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. REINFORCEMENT: H-20 BRIDGE LOADING (TRAFFIC RATED).
2. CONCRETE: 4,000 PSI @ 28 DAYS.
3. EARTHCOVER: 0' TO 5' MAX.
4. HDPE ALLOWED IN LIEU OF CONCRETE. MEET SAME LOADING REQUIREMENTS.

CITY OF RALEIGH
STANDARD DETAIL

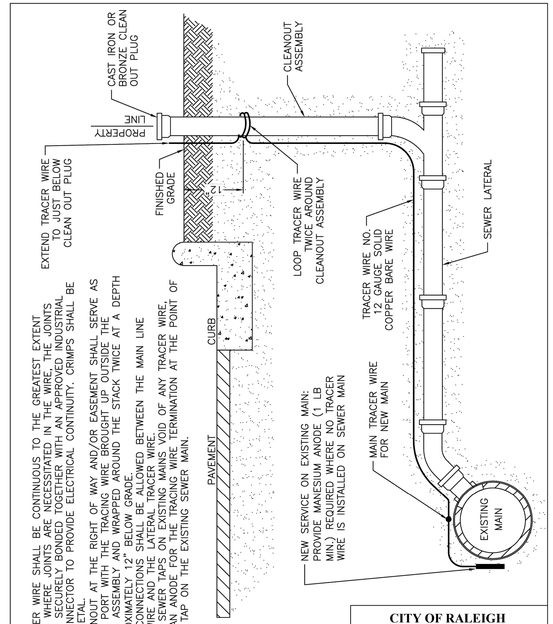
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	1,000 GALLON GREASE INTERCEPTOR	
	S-40	

LOCALLY AVAILABLE SIZES	
INTERCEPTORS CAPACITY (GAL.)	SEPARATORS CAPACITY (GAL.)
300	1,000
550	1,200
750	1,600
1,000	
1,200	
1,500	
2,000	
2,500	
3,000	
4,000	
5,000	
6,000	
8,000	

NOTES:
1. BAFFLE WALLS LOCATED AT A DISTANCE FROM INLET WALL ⅔ TO ¾ OF THE TOTAL LENGTH OF THE INTERCEPTOR OR SEPARATOR AS SHOWN ON DETAIL S-40. BAFFLE WALLS LOCATED AT A DISTANCE APPROXIMATELY OF ½ OF THE TOTAL LENGTH OF THE SEPARATOR AS SHOWN ON DETAIL S-40A.
2. EACH INTERCEPTOR OR SEPARATOR SHALL HAVE INLET AND OUTLET TEES. THE OUTLET TEE SHALL EXTEND 50% INTO THE LIQUID DEPTH. THE INLET TEE SHALL EXTEND 25% INTO THE LIQUID DEPTH. INLET AND OUTLET TEES MUST BE OPEN TO ALLOW THE COLLECTION OF F.O.G. SAMPLE.
3. ACCESS OPENINGS OVER EACH COMPARTMENT WITHIN THE INTERCEPTOR OR SEPARATOR SHALL BE 24 INCHES IN DIAMETER AND CONTAIN PICK HOLES. ALL COVERS SHALL BE CONSTRUCTED OF CAST IRON OR EQUIVALENT TRAFFIC BEARING MATERIAL. MANHOLE COVERS MUST EXTEND TO FINISH GRADE AND BE INSTALLED TO EXCLUDE THE ENTRANCE OF STORMWATER INTO THE INTERCEPTOR OR SEPARATOR.
4. FULL SIZE DUAL SWEEP CLEANOUTS SHALL BE INSTALLED ON THE INLET AND OUTLET SIDES OF THE INTERCEPTOR OR SEPARATOR.
5. INTERCEPTORS AND SEPARATORS MUST BE VENTED IN ACCORDANCE WITH THE NC STATE PLUMBING CODE.
6. CONCRETE: 4,000 PSI @ 28 DAYS.
7. DESIGN: ACI 318 BUILDING CODE
   ASTM C1613-06 FOR GREASE INTERCEPTORS
   ASTM C913-02 FOR WATER AND WASTEWATER STRUCTURES
   ASTM C890-06 FOR MINIMAL STRUCTURAL DESIGN LOADING
8. INTERCEPTORS AND SEPARATORS SHALL BE DESIGNED TO WITHSTAND AN H-20 WHEEL LOAD.
9. INTERCEPTORS OR SEPARATORS MADE OF POLYETHYLENE OR FIBERGLASS SHALL INCLUDE A MINIMUM 12,000 PSI TENSILE STRENGTH, 19,000 PSI FLEXURAL STRENGTH, AND 800,000 PSI FLEXURAL MODULUS.
10. ALL INTERCEPTORS AND SEPARATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

CITY OF RALEIGH
STANDARD DETAIL

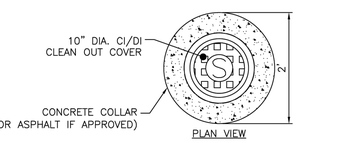
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	DIMENSIONS: GREASE INTERCEPTORS & OIL-WATER SAND SEPARATORS	
	S-41	

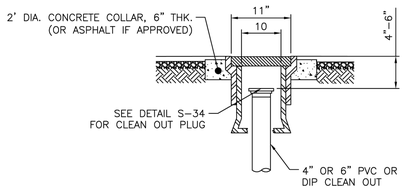


NOTES:
1. THE TRACER WIRE SHALL BE CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. WHERE JOINTS ARE NECESSITATED IN THE WIRE, THE JOINTS SHALL BE SECURELY BONDED TOGETHER WITH AN APPROVED INDUSTRIAL GRADE CONNECTOR TO PROVIDE ELECTRICAL CONTINUITY. CRIMPS SHALL BE SIMILAR METAL.
2. THE CLEANOUT AT THE RIGHT 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. SPLICING OF THE TRACER WIRE 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	

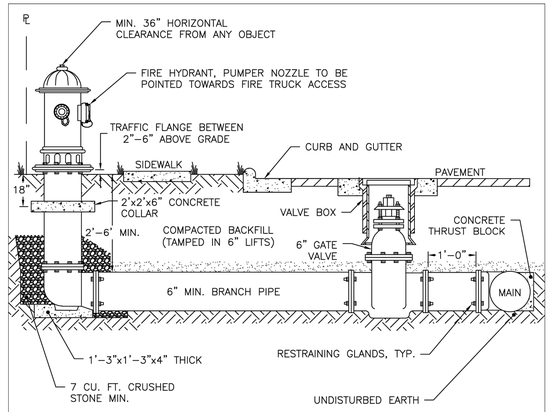




SECTION VIEW

CITY OF RALEIGH
STANDARD DETAIL

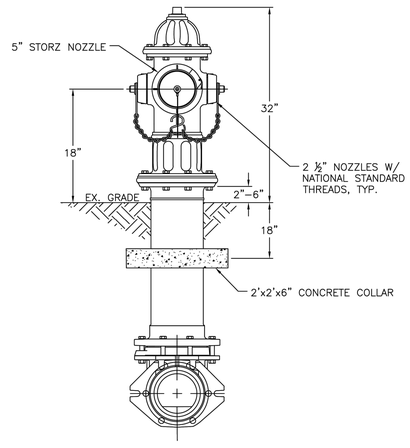
REVISIONS	DATE: 05/24/2024	NOT TO SCALE
	TRAFFIC RATED CLEAN OUT STRUCTURE	
	S-30B	



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

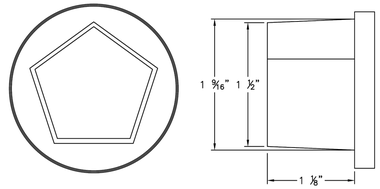
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	STANDARD FIRE HYDRANT INSTALLATION (RESTRAINT GLANDS)	
	W-4	



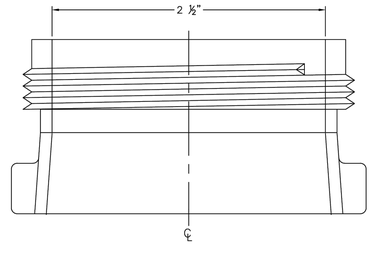
NOTES:
1. ALL PUBLIC FIRE HYDRANTS IN THE CITY OF RALEIGH AND THE MERGER TOWNS OF GARNER, ROLESVILLE, WAKE FOREST, KNIGHTDALE, WENDELL AND ZEBULON SHALL BE PAINTED CHROME YELLOW WITH HIGH REFLECTIVE ALUMINUM SILVER CAPS, BONNETS AND OPERATING NUTS.
2. ALL PRIVATE FIRE HYDRANTS SHALL BE RED.

CITY OF RALEIGH
STANDARD DETAIL

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



1 9/16" OPERATION NUT



2 ½" NATIONAL STANDARD OUTLET THREADS

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	HYDRANT OPERATING NUT AND 2 ½" OUTLET THREADS	
	W-6	

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Drawn By LLF
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SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE 604

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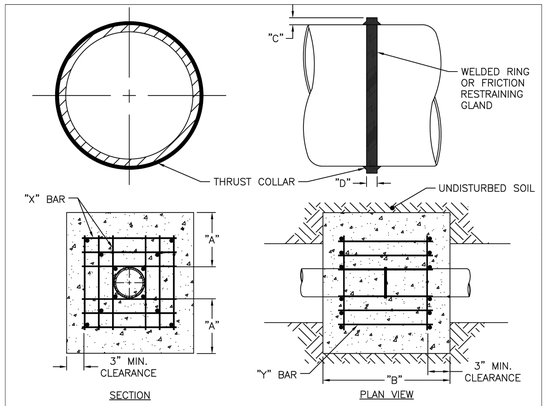


REINFORCING REQUIREMENTS

I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR LENGTH	"Y" BAR WEIGHT	NO. REQUIRED
6"–36"	#5	2'–2"+ O.D. PIPE	1.043 LBS/FT	1'–1"	1.1 LBS. EACH	X–24 Y–12
≥48"	#6	3'–0"+ O.D. PIPE	1.502 LBS/FT	1'–3"	1.9 LBS. EACH	X–24 Y–12

THRUST COLLAR AND THRUST SCHEDULE

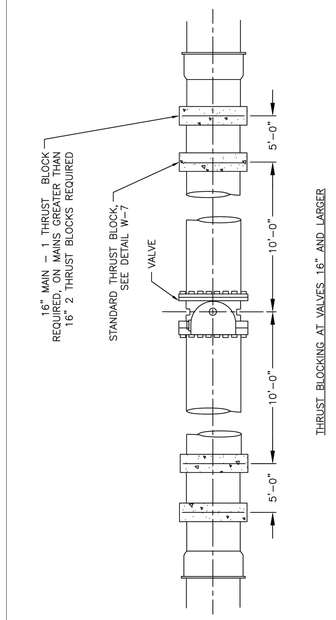
I.D. PIPE	"A"	"B"	"C"	"D"
6"–16"	1'–4"	1'–7"	2"	⅜"
20"–24"	1'–4"	1'–7"	3"	½"
30"–36"	1'–4"	1'–7"	4"	⅝"
≥48"	1'–8"	1'–9"	6"	⅞"

NOTES:
1. SEE DETAIL W–9 FOR THRUST BLOCK LOCATIONS.
2. CONCRETE SHALL BE 3,000 PSI AND TRANSIT MIXED.
3. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
4. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON DETAIL W–3.
5. BACKFILL TAMPED IN 6" LIFTS, SEE DETAIL W–3.
6. THRUST COLLAR MUST BE FACTORY WELDED ON BOTH SIDES ALONG BOTH EDGES OF COLLAR AROUND CIRCUMFERENCE.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	THRUST BLOCKING DESIGN DATA FOR WATER MAINS	

W-7

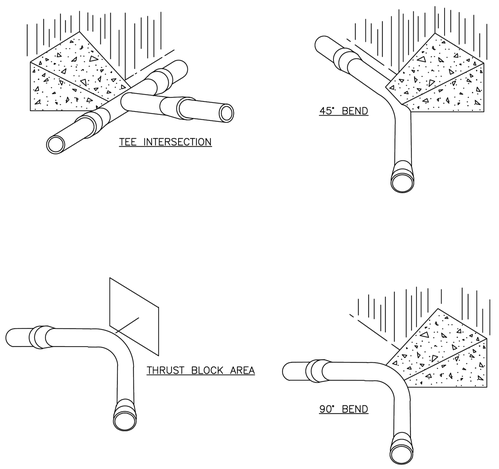


CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	STANDARD THRUST BLOCKING INSTALLATION FOR 16" AND LARGER VALVES AND DEAD END MAINS	

W-8

THRUST BLOCKING



NOTES:
1. CONCRETE SHALL BE 3,000 PSI.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
3. TRENCHES SHALL CONFORM TO DETAIL W–3.
4. SEE DETAIL W–10 & W–11 (THRUST BLOCK TABLES) FOR AREA OF CONCRETE REQUIRED.
5. ALL BENDS AND INTERSECTIONS SHALL HAVE CONCRETE THRUST BLOCKING.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	THRUST BLOCKING VIEWS	

W-9

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

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

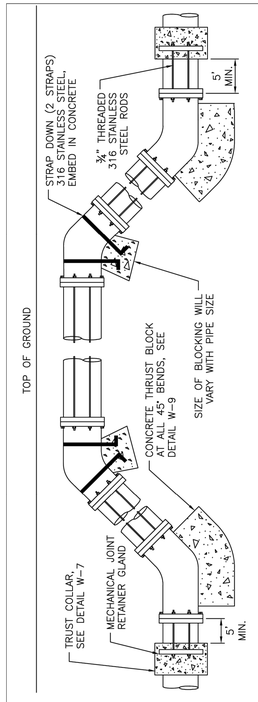
SIZE OF BEND	DEGREE OF BEND	STATIC THRUST IN POUNDS	MODERATELY DRY CLAY 4,000 LBS/FT²	SOFT CLAY 2,000 LBS/FT²	1,600 LBS/FT² GRAVE/ COARSE SAND	8,000 LBS/FT² DRY CLAY (ALWAYS DRY)	SAND, COMPACT FIRM 8,000 LBS/FT²	SAND– CLEAN DRY 4,000 LBS/FT²	SOIL 1,000 LBS/FT² QUICKSAND (VERY POOR)	ROCK– POOR 10,000 LBS/FT²
24"	11 ¼°	17,734	5	9	11	3	3	5	18	2
	22 ½°	35,305	9	18	22	5	5	9	36	4
	45°	69,252	18	35	42	9	9	18	70	7
	90°	127,936	32	64	77	16	16	32	128	113
	PLUG	90,478	23	46	55	12	12	23	91	10
30"	11 ¼°	27,709	7	14	17	4	4	7	2	3
	22 ½°	55,163	14	28	34	7	7	14	56	6
	45°	108,206	28	55	65	14	14	28	109	11
	90°	199,900	50	100	120	25	25	50	200	20
	PLUG	141,372	36	71	85	18	18	36	142	15
36"	11 ¼°	39,901	10	20	24	5	5	10	40	4
	22 ½°	79,439	20	40	48	10	10	20	30	8
	45°	155,816	39	78	94	20	20	39	156	16
	90°	287,855	72	144	172	36	36	72	288	29
	PLUG	203,575	51	102	122	26	26	51	204	21
48"	11 ¼°	70,935	18	36	43	9	9	18	71	8
	22 ½°	141,218	36	71	85	18	18	36	142	15
	45°	277,007	70	139	166	35	35	70	277	28
	90°	511,742	128	256	320	64	64	128	512	52
	PLUG	361,911	91	181	217	46	46	91	362	37

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-11



RESTRAINT REQUIREMENTS

PIPE DIA	RODDING	RJ GLANDS	THRUST COLLAR	THRUST BLOCKING
<12"	X	X	X	X
≥12"	X	X	X	X

"X" DENOTES REQUIRED RESTRAINT.

STRAP REQUIREMENTS

STRAP WIDTH	STRAP THICKNESS
1"	3/16"
1.5"	3/16"
2"	¼"
2"	¼"
4"	½"

ROD REQUIREMENTS

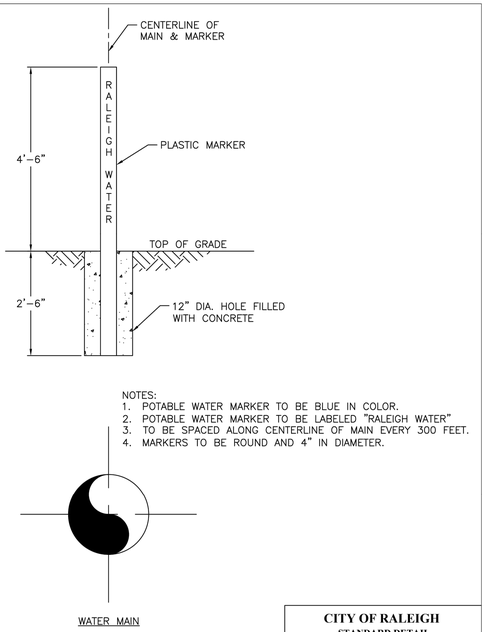
SIZE OF 45° BEND	STATIC TRUST IN POUNDS	NO. OF RODS REQUIRED
6"	4,328	2
8"	7,694	4
12"	17,312	4
16"	30,779	8
24"	69,252	8

NOTES:
1. STEEL RODS AND BOLTS SHALL BE ¾" 316 STAINLESS STEEL.
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.
6. EXTERNAL RESTRAINT REQUIRED. INTEGRAL BELL RESTRAINT REQUIRES DIRECTOR'S APPROVAL.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	STANDARD VERTICAL BEND	

W-12

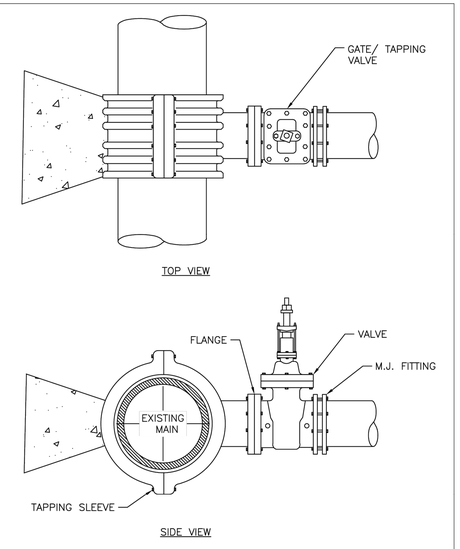


NOTES:
1. POTABLE WATER MARKER TO BE BLUE IN COLOR.
2. POTABLE WATER MARKER TO BE LABELED "RALEIGH WATER"
3. TO BE SPACED ALONG CENTERLINE OF MAIN EVERY 300 FEET.
4. MARKERS TO BE ROUND AND 4" IN DIAMETER.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	MAIN & VALVE MARKER FOR POTABLE WATER IN EASEMENTS	

W-13



NOTES:
1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
2. SEE DETAIL W–10 & W–11 (REACTION BLOCK TABLES) FOR AREA OF CONCRETE REQUIRED.
3. 3,000 PSI SOLID CONCRETE SHALL BE USED AS FOOTING FOR DUCTILE IRON PIPE.
4. FULL CIRCUMFERENCE SLEEVE, STAINLESS STEEL MATERIAL REQUIRED.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	4"–24" STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY	

W-14

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, N.C.
NC ENGINEERING LICENSE NO. P–0803
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SAMUEL R. NITZ
1/30/2026
THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
1111 Oberlin Road
Raleigh, NC 27605–1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP–26–XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE
605

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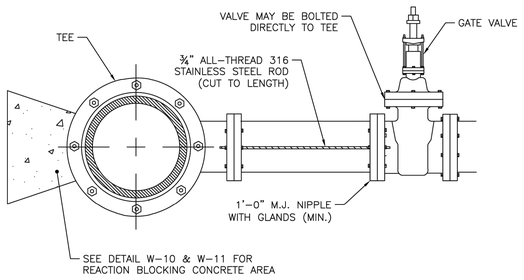


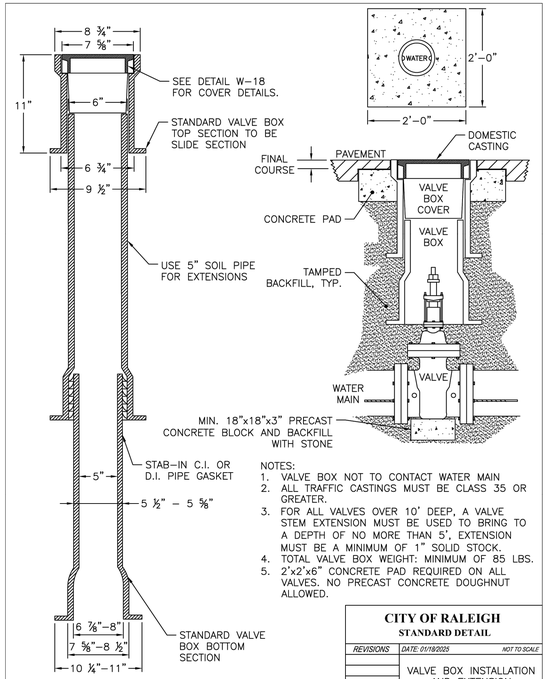
ROD REQUIREMENTS

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

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

CITY OF RALEIGH
STANDARD DETAIL

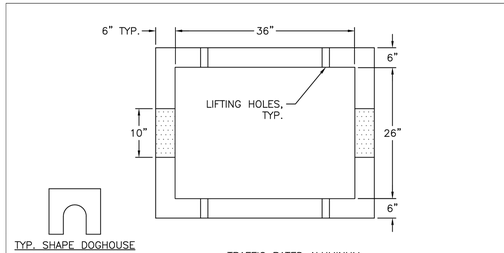
REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	VALVE RESTRAINT AT TEES AND CROSSES FOR LINES (4"–24")	
	W-15	

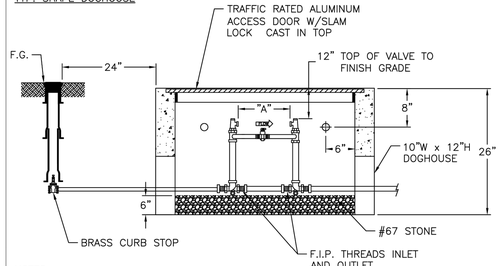


NOTES:
1. VALVE BOX NOT TO CONTACT WATER MAIN
2. ALL TRAFFIC CASTINGS MUST BE CLASS 35 OR GREATER.
3. FOR ALL VALVES OVER 10' DEEP, A VALVE STEM EXTENSION MUST BE USED TO BRING TO A DEPTH OF NO MORE THAN 5', EXTENSION MUST BE A MINIMUM OF 1" SOLID STOCK.
4. TOTAL VALVE BOX WEIGHT: MINIMUM OF 85 LBS.
5. 2'x2'x6" CONCRETE PAD REQUIRED ON ALL VALVES. NO PRECAST CONCRETE DOUGHNUT ALLOWED.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	VALVE BOX INSTALLATION AND EXTENSION	
	W-17	





NOTES:
1. METER AS MANUFACTURED BY SENSUS OR NEPTUNE. METER TO BE PROVIDED BY RALEIGH WATER.
2. BACKFILL TAMPED IN 6" LIFTS.
3. REINFORCEMENT: #4 @ 6" O.C.E.W.
4. CONCRETE: 4,000 PSI @ 28 DAYS.
5. ALL RPZ BACKFLOW PREVENTION DEVICES MUST BE INSTALLED PRIOR TO METER BEING SET.
6. ALL COPPER SETTERS ARE TO HAVE A BALL TYPE SHUT OFF VALVE ON BOTH SIDES OF COPPER SETTER WITH HIGH RISE BYPASS THAT IS MANUFACTURED BY FORD, MUELLER, OR AY McDONALD (NO EXCEPTIONS).
7. HEIGHT ADJUSTMENTS ALLOWED BY PRECAST RISERS OR BRICK AND MORTAR. DRY STACKING OF BLOCK IS NOT ALLOWED.

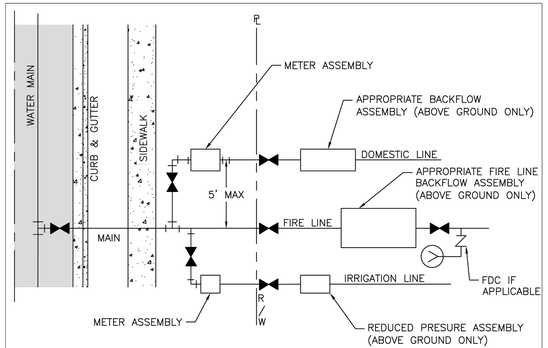
"A"

1 ½" METER	13 ¼"
2" METER	17 ¼"

** TRAFFIC RATED VAULT WALL THICKNESS

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	TYPICAL 1 ½"–2" WATER METER BOX INSTALLATION	
	W-31	



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: 01/19/2025	NOT TO SCALE
	FIRE, DOMESTIC & IRRIGATION OPTIONS SCHEMATIC	
	W-34	

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SCOTT R. NEWMAN 1/30/2026

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SITE DEVELOPMENT PLAN (SDP–26–XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code: SSRCC

Dwg No.
SITE
606

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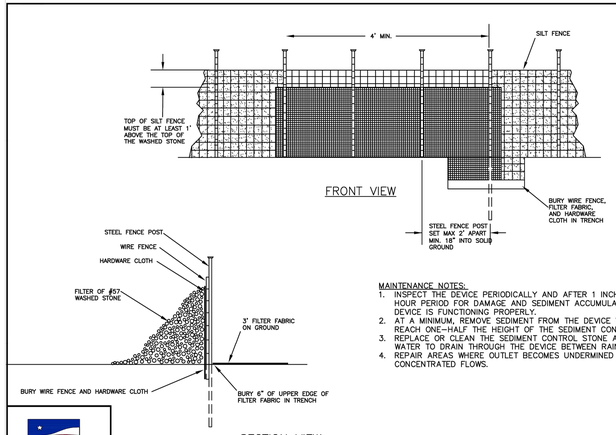
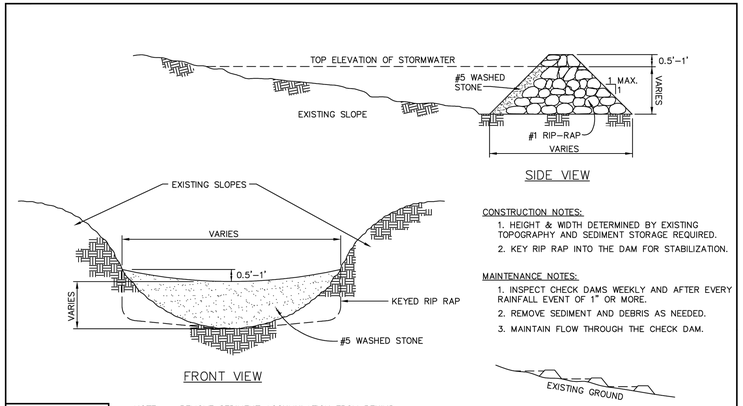


MAINTENANCE NOTES:
1. INSPECT THE DEVICE PERIODICALLY AND AFTER 1 INCH RAINFALL OVER 24 HOUR PERIOD FOR DAMAGE AND SEDIMENT ACCUMULATION TO CONFIRM THE DEVICE IS FUNCTIONING PROPERLY.
2. AT A MINIMUM, REMOVE SEDIMENT FROM THE DEVICE WHEN ACCUMULATIONS REACH ONE-HALF THE HEIGHT OF THE SEDIMENT CONTROL STONE.
3. REPLACE OR CLEAN THE SEDIMENT CONTROL STONE AS NEEDED TO ALLOW WATER TO DRAIN THROUGH THE DEVICE BETWEEN RAINFALL EVENTS.
4. REPAIR AREAS WHERE OUTLET BECOMES UNDERMINED DUE TO CONCENTRATED FLOWS.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 10/15/2025

STANDARD SILT FENCE OUTLET



CONSTRUCTION NOTES:
1. HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
2. KEY RIP RAP INTO THE DAM FOR STABILIZATION.

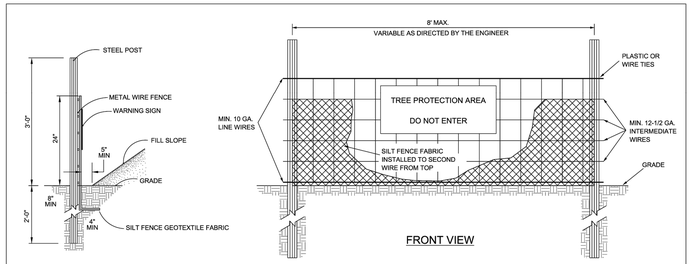
MAINTENANCE NOTES:
1. INSPECT CHECK DAMS WEEKLY AND AFTER EVERY RAINFALL EVENT OF 1" OR MORE.
2. REMOVE SEDIMENT AND DEBRIS AS NEEDED.
3. MAINTAIN FLOW THROUGH THE CHECK DAM.

NOTE: REMOVE SEDIMENT ACCUMULATION FROM BEHIND CHECK DAMS TO PREVENT DAMAGE TO CHANNEL VEGETATION. FLOW SHOULD BE MAINTAINED THROUGH THE DAM.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 10/15/2025

STANDARD CHECK DAM

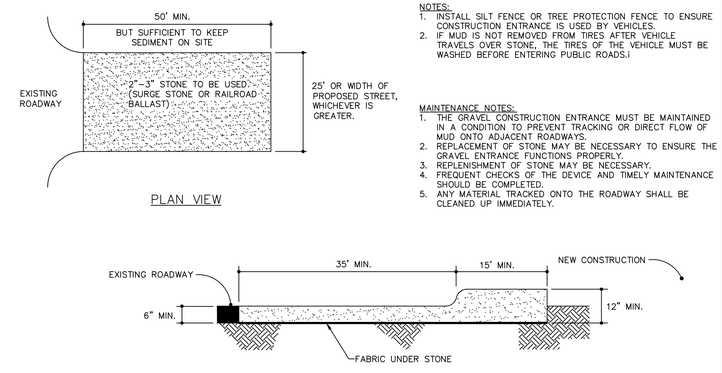


MAINTENANCE: CLEAN OUT AT 50% CAPACITY
LIFE OF FENCING: 6-9 MONTHS
DO NOT DISTURB TREE CONSERVATION AREAS
SILT FENCE SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10' IN HEIGHT.

NOTES:
1. TREE PROTECTION FENCING MUST BE INSTALLED AT A MINIMUM RADIUS OF THE CRITICAL ROOT ZONE (SEE DETAIL TPP-02 FOR EXAMPLES)
2. THE TREE PROTECTION FENCING MUST REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE APPROVED BY URBAN FORESTRY STAFF.
3. APPROVED IMPACT PROTECTION DEVICES MUST BE REMOVED AFTER CONSTRUCTION WHEN APPLICABLE.
4. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER FOR THE REMAINDER
5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTED AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF RALEIGH BASED ON ACTUAL FIELD CONDITIONS.
8. SIGNS ARE TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL WITH LETTERS A MINIMUM OF 2 1/2" HIGH, CLEARLY LEGIBLE AND SPACED AS SHOWN.
9. FLOW SHALL NOT RUN PARALLEL WITH THE FENCE. END OF SILT FENCE NEEDS TO BE TURNED UPHILL.
10. SEE NC STATE DEQ PRACTICE STANDARDS & SPECIFICATIONS SEDIMENT FENCE SET FOR CONDITIONS WHERE APPLIES; PLANNING CONSIDERATIONS & DESIGN CRITERIA. (HOWEVER, FLOW SHALL NOT RUN PARALLEL WITH THE TOE OF THE FENCE.)

CONTACT INFORMATION:
CITY OF RALEIGH PARKS, RECREATION AND CULTURAL RESOURCES DEPARTMENT
URBAN FORESTER:
TREES@RALEIGHNC.GOV
WWW.RALEIGHNC.GOV

REVISIONS	DATE ISSUED	STANDARD TEMPORARY TREE PROTECTION FENCE (SEDIMENTS LIMIT)	NOT TO SCALE	CITY OF RALEIGH STANDARD DETAIL	TPP-08



NOTES:
1. INSTALL SILT FENCE OR TREE PROTECTION FENCE TO ENSURE CONSTRUCTION ENTRANCE IS USED BY VEHICLES.
2. IF MUD IS NOT REMOVED FROM TIRES AFTER VEHICLE TRAVELS OVER STONE, THE TIRES OF THE VEHICLE MUST BE WASHED BEFORE ENTERING PUBLIC ROADS.i

MAINTENANCE NOTES:
1. THE GRAVEL CONSTRUCTION ENTRANCE MUST BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO ADJACENT ROADWAYS.
2. REPLACEMENT OF STONE MAY BE NECESSARY TO ENSURE THE GRAVEL ENTRANCE FUNCTIONS PROPERLY.
3. REPLENISHMENT OF STONE MAY BE NECESSARY.
4. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE SHOULD BE COMPLETED.
5. ANY MATERIAL TRACKED ONTO THE ROADWAY SHALL BE CLEANED UP IMMEDIATELY.

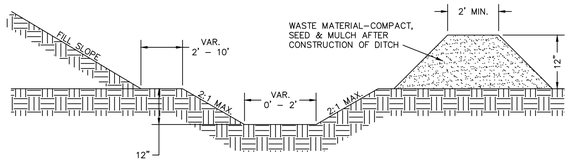
WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD CONSTRUCTION ENTRANCE

NOTES:
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
2. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.

MAINTENANCE NOTES:
1. INSPECT ONCE A WEEK AND AFTER EVERY 1" RAINFALL.
2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
4. CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.
5. AFTER DRAINAGE AREA IS PERMANENTLY STABILIZED, PLACE WASTE MATERIAL IN DITCH TO BLEND WITH NATURAL GROUND AND STABILIZE.

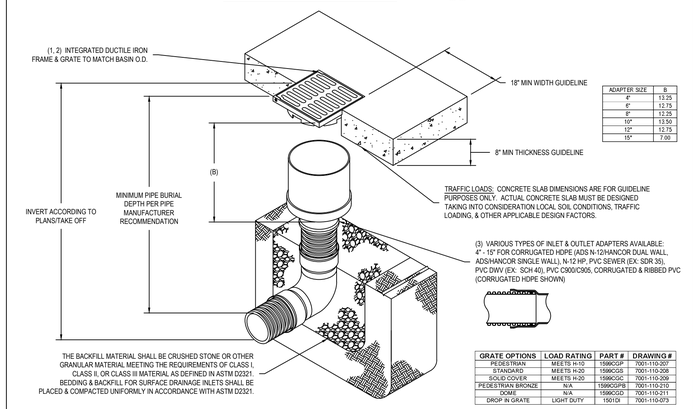


WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 10/15/2025

STANDARD TEMPORARY DIVERSION DITCH

NYLOPLAST 15" INLINE DRAIN: 2715AG _ _ X



ADAPTER SIZE	B
4"	13.75
6"	13.75
8"	12.25
10"	13.50
12"	12.75
15"	7.00

TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

(3) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 15" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC (CORRUGATED HDPE SHOWN)

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1599CGP	7001-110-207
STANDARD	MEETS H-20	1599CGS	7001-110-208
SOLID COVER	MEETS H-20	1599CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1599CGPB	7001-110-210
DOME	N/A	1599CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501DI	7001-110-073

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - DIMENSIONS ARE IN INCHES.
6 - SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

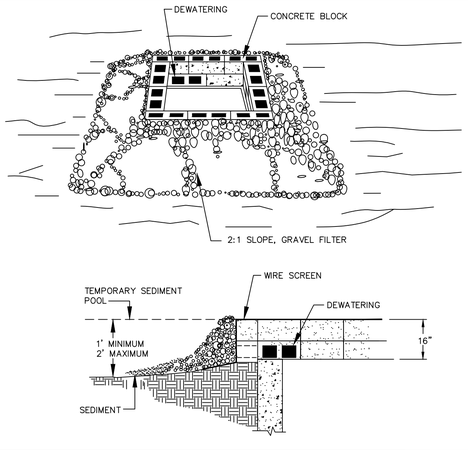
THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2013 NYLOPLAST

DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-15-16		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
15 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7003-110-026 REV E



CONSTRUCTION SPECIFICATIONS

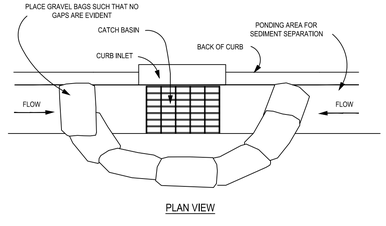
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 3/4 TO 1/2 INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

MAINTENANCE: INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

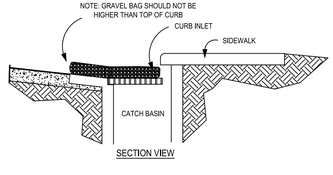
WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD BLOCK & GRAVEL DROP INLET PROTECTION



NOTES:
1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH ⅔ INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
4. WHEN INSTALLING CURB INLET PROTECTION DEVICES, **NEVER** BLOCK THE CURB INLET.



WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD GRAVEL BAG CURB INLET PROTECTION

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NITZ
1/30/2026

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
1111 Oberlin Road
Raleigh, NC 27605-1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE 607

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Rolesville
Genuine Community • Capital Connection
Est. 1837

Development Plan Review Application

Town of Rolesville Planning Department | PO Box 250 | Rolesville, NC 27571 | 919-554-6517 | planning@rolesville.nc.gov

Planning Department Home Page: Official Town Webpage

PROJECT & PLAN INFORMATION:

☐ Preliminary Subdivision Plat (PSP)	■ Site Development Plan (SDP)
☐ Construction Infrastructure Drawings (CID)	☐ Final Subdivision Plat (FSP)

Submittal #: ■ Original ☐ 2nd ☐ 3rd ☐ Other _____ OR ☐ Revision to Previously Approved (_____)

If a resubmittal, revisions to the plan must be clouded and a comment response letter must be provided for the resubmittal to be complete.

Legal Description (Book of Maps if platted, or Register of Deeds Bk/Pg if not):

Proposed Project Name: Kiddie Academy (Lot 4 at Wallbrook)	Site Address: 851 South Main Street
PIN(s) or REID(s): 1758-45-3676	Site Area (in acres): 1.75 Acres
Associated Previous Case Number(s):	Current Use(s):Vacant
Zoning District(s): GC-CZ	Zoning and/or Watershed Overlay(s): Lower Neuse Watershed
Proposed # of New Lots (Residential **or** Nonresidential): Nonresidential	Proposed Residential Dwelling Units; Proposed Residential Density:

Summary Description of Proposed Use / Project:

11,112 SF Daycare

APPLICATION REQUIREMENTS - the following documents by the submittal deadline to be considered complete and ready for review. Additional supporting documents may be requested by the TRC Staff case by case.

■ Completed Application & Specific application checklist .	■ Sketch/Pre-Submittal meeting notes (if applicable).
■ PDF's (Flattened, < than 100MB) of any/all documents	■ Any approved/recorded Special Use Permits, Variances, etc.
■ FIRM panel, USGS, and Soil Survey Maps,as applicable.	■ Traffic Impact Analysis, ITE Traffic Generation Letter, or Letter/Email from Planning staff confirming one is not required

Note: INVOICE issued for the Application fee payment during the completeness check or following application review.

Financially Responsible Party

(*that who receives and will pay Invoices for the Actual Cost Consultant Review Fees*)

Mailing Address 2111 Winterborne Dr City/State/Zip Cary, NC 27519

Phone (216) 334-6615 Email sanjay.sharma@kiddieacademy.net

Property Owner (PRINT) Sanjay Sharma (if more than 1 use separate sheet)

Property Owner (Signature) _____

Mailing Address 2111 Winterborne Dr City/State/Zip Cary, NC 27519

Phone (216) 334-6615 Email sanjay.sharma@kiddieacademy.net

Applicant / Engineer / Architect / Attorney / Agents

Name: Samuel Nye (Engineer) Phone: (919) 835-4787

Email: SRN@thesitegroup.net

Name: Lian Farruggio (Applicant) Phone: (910) 553-6520 Email: llf@thesitegroup.net

Name: Patricia Chenery (Architect) Phone: (919) 906-4262 Email: PChenery@redlinedg.com

Rolesville
Genuine Community • Capital Connection
Est. 1837

Town of Rolesville Planning Department
Property Owner Consent & Authorization Form
planning@rolesvillenc.gov

Consent is required from the property owner(s) or legal representative. Unless otherwise specified, consent is valid for one year from the date of application.

Please provide a separate form for each parcel number. For properties with multiple owners, an individual form must be completed for each owner. (A husband and wife may both sign and submit one form.)

Project/ Subdivision Name: Kiddie Academy (Lot 4 at Wallbrook)

Site Address: 851 South Main Street

Parcel ID: 1758-45-3676 **Deed Reference:** Book #019463, Page #02024

Financially Responsible Party *This field is required.

Name: Sanjay Sharma (type or print clearly) Signature: [signature]

Company Name: _____ Title: _____

Mailing Address: 2111 Winterborne Drive City/State/Zip: Cary, NC 27519

Phone: (216) 334-6615 Email: sanjay.sharma@kiddieacademy.net

☐ **Applicant** ■ **Owner** ☐ **P.O.A.** ☐ **Agent** ☐ **Legal Representative**
Check all that apply.

1). Name: Sanjay Sharma *(type or print clearly)* Signature: [signature]

Mailing Address: 2111 Winterborne Drive City/State/Zip: Cary, NC 27519

Phone: (216) 334-6615 Email: sanjay.sharma@kiddieacademy.net

2). Name: _____ *(type or print clearly) (spouse if applicable)* Signature: _____

Mailing Address: _____ City/State/Zip: _____

Phone: _____ Email: _____

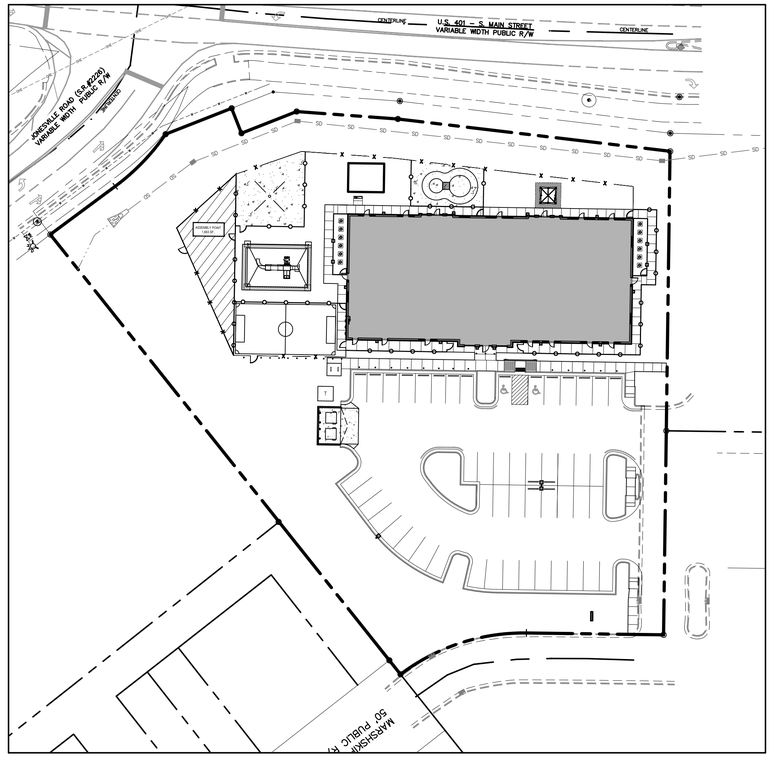
By signing the above, I swear and affirm that I am the owner(s) or authorized representative as shown in the records of Wake County, North Carolina, which is the subject of this application. **I further affirm that I am fully aware of the Town's application, fees, and procedural requirements, and I consent to this Application. I authorize the person(s) listed below to submit this Application and serve as the representative and point of contact for this Application.**

KIDDIE ACADEMY LOT 4 AT WALLBROOK

851 S MAIN ST

Rolesville, North Carolina

SITE DEVELOPMENT PLAN
SDP-26-XX



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CERT. NO. 353
NORTH CAROLINA
RALEIGH, N.C.

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SAMUEL R. NYE
1/30/2026

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SITE 601	SITE DETAILS
SITE 602	SITE DETAILS
SITE 603	SITE DETAILS
SITE 604	SITE DETAILS
SITE 605	SITE DETAILS
SITE 606	SITE DETAILS
SITE 607	SITE DETAILS
XXX	BUILDING FLOORPLANS (BY OTHERS)
XXX	BUILDING ELEVATIONS (BY OTHERS)

SITE DATA SUMMARY

PROJECT NAME:	KIDDIE ACADEMY LOT 4 AT WALLBROOK
PARCEL ID(S):	1758-45-3676
SITE ADDRESS:	851 S MAIN ST
JURISDICTION:	RO – ROLESVILLE
EXISTING ZONING:	GC-CZ
RIVER BASIN:	NEUSE
WATERSHED:	LOWER NEUSE
GROSS SITE AREA:	76,124 SF, 1.75 ACRES
CURRENT USE:	VACANT
PROPOSED USE:	DAYCARE
BUILDING AREA:	11,112 SF
BUILDING HEIGHT:	TBD
SETBACKS & DIMENSIONS:	
FRONT BUILDING SETBACK (MIN):	20'
SIDE BUILDING SETBACK (MIN):	15'
REAR BUILDING SETBACK (MIN):	35'
CORNER BUILDING SETBACK (MIN):	25'
LOT WIDTH (MIN):	100'
LOT AREA (MIN):	20,000 SF
PRIMARY STREET PARKING SETBACK:	10'
SIDE LOT PARKING SETBACK:	10'
REAR LOT PARKING SETBACK:	0' OR 3'
VEHICLE PARKING MINIMUM:	2.5 SPACES/1,000 SF = 28 SPACES (INCL. 2 H/C)
VEHICLE PARKING MAXIMUM:	5 SPACES/1,000 SF = 56 SPACES
PROVIDED VEHICLE PARKING:	49 SPACES (INCL. 2 H/C)
BICYCLE PARKING REQUIRED (MIN.):	1 SPACE/5,000 SF = 2 SPACES
BICYCLE PARKING PROVIDED :	2 SPACES
EXISTING IMPERVIOUS AREA:	0 SF
PROPOSED IMPERVIOUS AREA:	37,378 SF, 0.86 AC (49%)
TREE COVERAGE	0 SF
TOTAL DISTURBED AREA:	72,296 SF/1.66 AC.
OPEN SPACE REQUIRED (MIN.): (PER LDO SEC. 6.2.1.D.3)	5% OF GROSS SITE AREA = 3,806 SF
OPEN SPACE PROVIDED:	11,169 SF OF ACTIVE USE AREA

PARKING REQUIREMENTS:

PARKING REQUIRED: DAY CARE		
	MINIMUM: 2.5/1,000 SF = 11,112/1,000*2.5	28 SPACES
	MAXIMUM: 5/1,000 SF = 11,112/1,000*5	56 SPACES
	TOTAL REQUIRED PARKING:	38 SPACES
	REQUIRED HANDICAP PARKING:	2 SPACES
	PARKING PROVIDED:	49 SPACES (INCL. 2 H/C)

GENERAL NOTES

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2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

ATTENTION CONTRACTORS

The ***Construction Contractor*** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for ***contacting*** the ***Public Utilities Department*** at ***(919) 996-4540*** at least ***twenty four hours*** prior to beginning any of their construction.

Failure to notify both ***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.

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SPECIAL USE STANDARDS: DAY CARE (LDO SEC. 5.1.3.F)

A. AREAS DEDICATED FOR DROP OFF AND PICK UP MUST BE INCLUDED FOR ANY SITE PLAN OR PERMIT REQUEST FOR A DAY CARE.

COMPLIANCE: PARKING SPOTS ADJACENT TO BUILDING ARE TO BE RESERVED FOR DROP OFF AND PICK UP. PARENTS ARE REQUIRED TO PARK IN ORDER TO CHECK IN THEIR CHILDREN INSIDE.

B. OUTDOOR PLAY AREAS AND PLAYGROUNDS SHALL BE FENCED WITH A MINIMUM SIX (6) FOOT FENCE.

COMPLIANCE: PROPOSED EXTERIOR FENCING IS SIX (6) FOOT HIGH. PROPOSED INTERIOR FENCING IS FOUR (4) FOOT HIGH.

FLOODPLAIN NOTE:

1. THIS PROPERTY IS LOCATED OUTSIDE THE WAKE COUNTY 100 YEAR FUTURE CONDITIONS FLOODPLAIN (1% FUTURE CONDITIONS FLOODPLAIN").

   FEMA REFERENCE DATA:
   FEMA FIRM PANEL No.: 3720175800K
   EFFECTIVE DATE: JULY 19, 2022

   THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3720175800K DATED JULY 19, 2022

RALEIGH WATER

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☐ S-_____
STORMWATER MGMT. ☐ S-_____
FLOOD STUDY ☐ S-_____
DATE_____
ENVIRONMENTAL CONSULTANT SIGNATURE

Rolesville
Genuine Community • Capital Connection
Est. 1837

CONTACT:
SAMUEL R. NYE, PE
THE SITE GROUP, PLLC
1111 OBERLIN ROAD
RALEIGH, NC 27605
PHONE: (919) 835-4787
FAX: (919) 839-2255
EMAIL: SRN@THESITEGROUP.NET

OWNER/DEVELOPER:
SANJAY SHARMA
2111 WINTERBORNE DRIVE
CARY, NC 27519
PHONE: (216) 334-6615
EMAIL: sanjay.sharma@kiddieacademy.net

NORTH

COVER SHEET

SCALE: 1" = 30' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 30 60 90 120

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
1111 Oberlin Road
Raleigh, NC 27605-1136 USA
Office: 919.835.4787
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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

COVER SHEET

Job Code: SSRCC

Dwg No.
SITE 001

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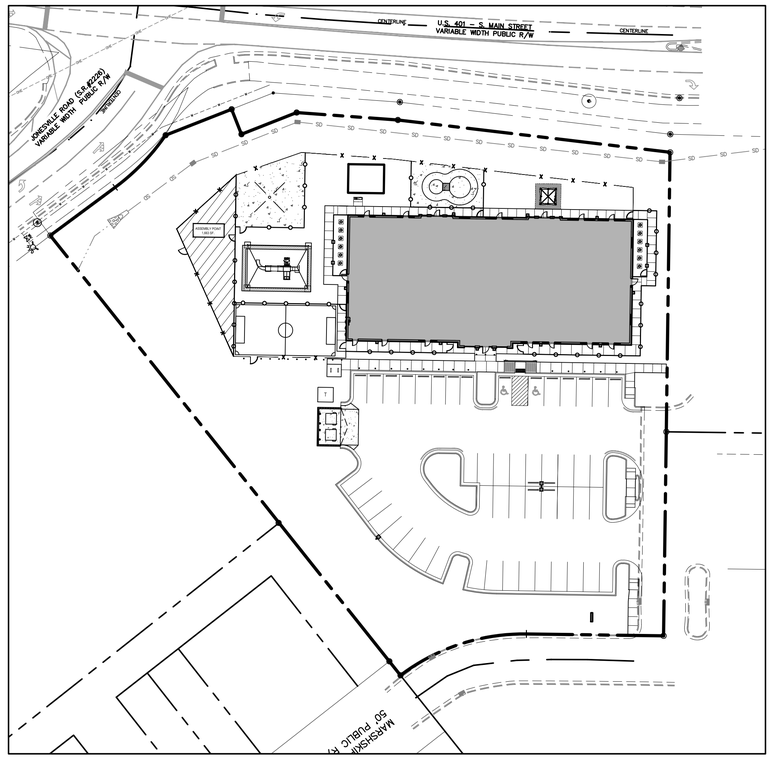
KIDDIE ACADEMY LOT 4 AT WALLBROOK

851 S MAIN ST

Rolesville, North Carolina

SITE DEVELOPMENT PLAN
SDP-26-XX



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RALEIGH WATER

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☐ S-_____
STORMWATER MGMT. ☐ S-_____
FLOOD STUDY ☐ S-_____
DATE_____
ENVIRONMENTAL CONSULTANT SIGNATURE

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CONTACT:
SAMUEL R. NYE, PE
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1111 OBERLIN ROAD
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PHONE: (919) 835-4787
FAX: (919) 839-2255
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OWNER/DEVELOPER:
SANJAY SHARMA
2111 WINTERBORNE DRIVE
CARY, NC 27519
PHONE: (216) 334-6615
EMAIL: sanjay.sharma@kiddieacademy.net

NORTH

COVER SHEET

SCALE: 1" = 30' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 30 60 90 120

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, N.C.

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SAMUEL R. NYE
1/30/2026

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
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Raleigh, NC 27605-1136 USA
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E Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

COVER SHEET

Job Code: SSRCC

Dwg No.
SITE 001

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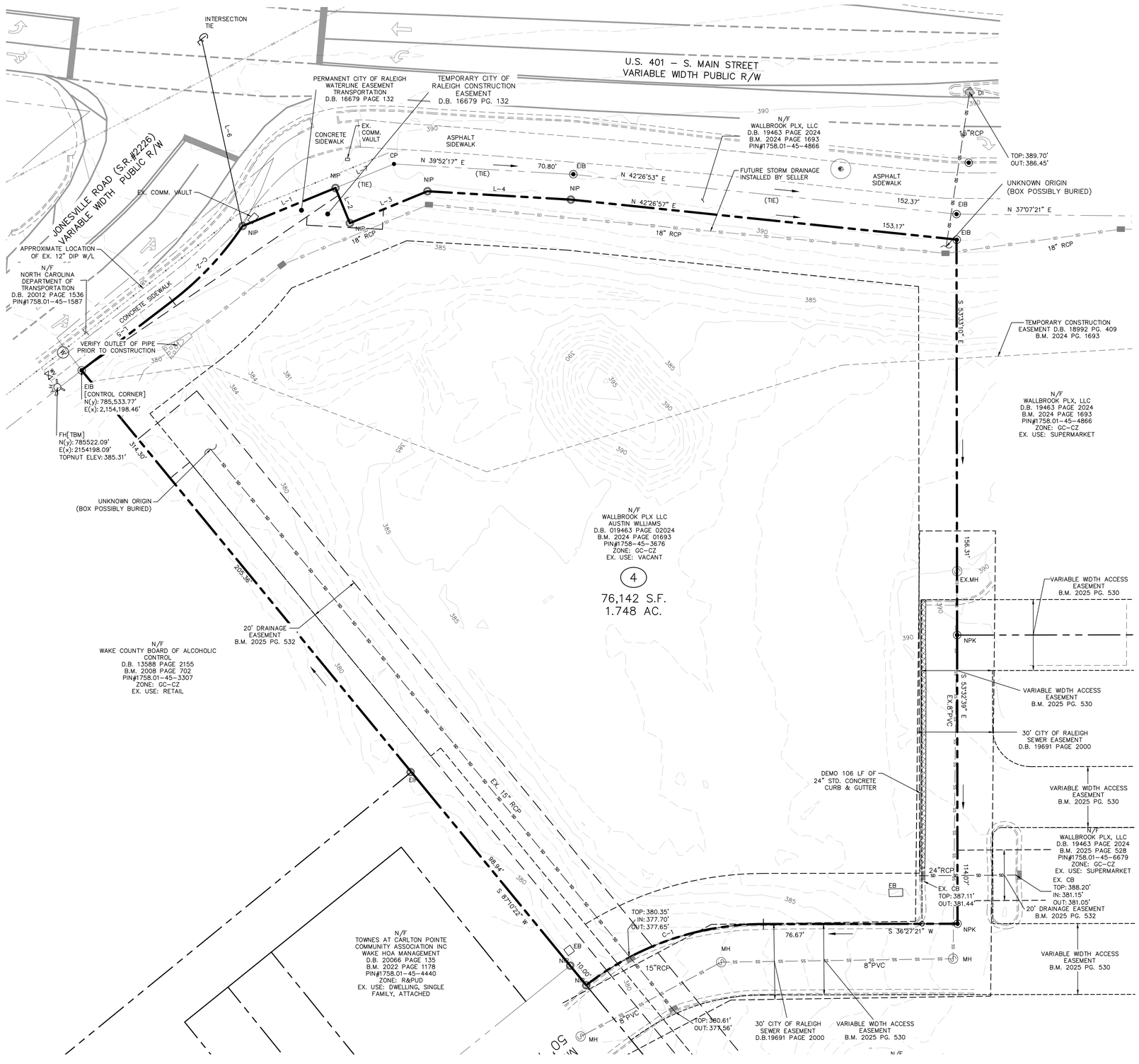

LINE LEGEND

- PROPERTY BOUNDARY
- ADJACENT BOUNDARY
- EXISTING R/W
- FUTURE R/W
- POND/CREEK
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORMWATER
- EXISTING GAS LINE
- EXISTING OVERHEAD UTILITY
- EXISTING COMMUNICATION
- EXISTING UNDERGROUND ELECTRIC
- EXISTING TOPO MAJOR
- EXISTING TOPO MINOR
- PROPOSED TOPO MAJOR
- PROPOSED TOPO MINOR
- EXISTING CENTERLINE
- EXISTING RIPARIAN BUFFER
- EXISTING FLOOD HAZARD AREA
- EXISTING WETLAND AREA
- EXISTING FENCE
- PROPOSED STORM DRAIN LINE
- LIMITS OF DISTURBANCE
- SILT/TREE PROTECTION FENCE

LINE TABLE		
LINE	BEARING	DISTANCE
L-1	N 14°13'53" E	39.66'
L-2	S 75°46'07" E	15.00'
L-3	N 14°13'53" E	33.14'
L-4	N 39°52'17" E	56.74'
L-5	N 00°52'59" W	45.18'
L-6	N 65°49'01" W	75.66'
L-7	N 14°13'53" E	24.99'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD LENGTH	CHORD BEARING
C-1	75.45'	114.00'	74.08'	S 17°29'39" W
C-2	40.68'	123.92'	40.50'	N 10°17'16" W

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

NORTH

EXISTING CONDITIONS & DEMO PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

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NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NITZ
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY LOT 4 AT WALLBROOK

551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By BRK
Checked By SRN

DATE:
30 JAN 2026

CONSTRUCTION DOCUMENT

EXISTING CONDITIONS & DEMO PLAN

Job Code SSRCC

Dwg No. SITE 100

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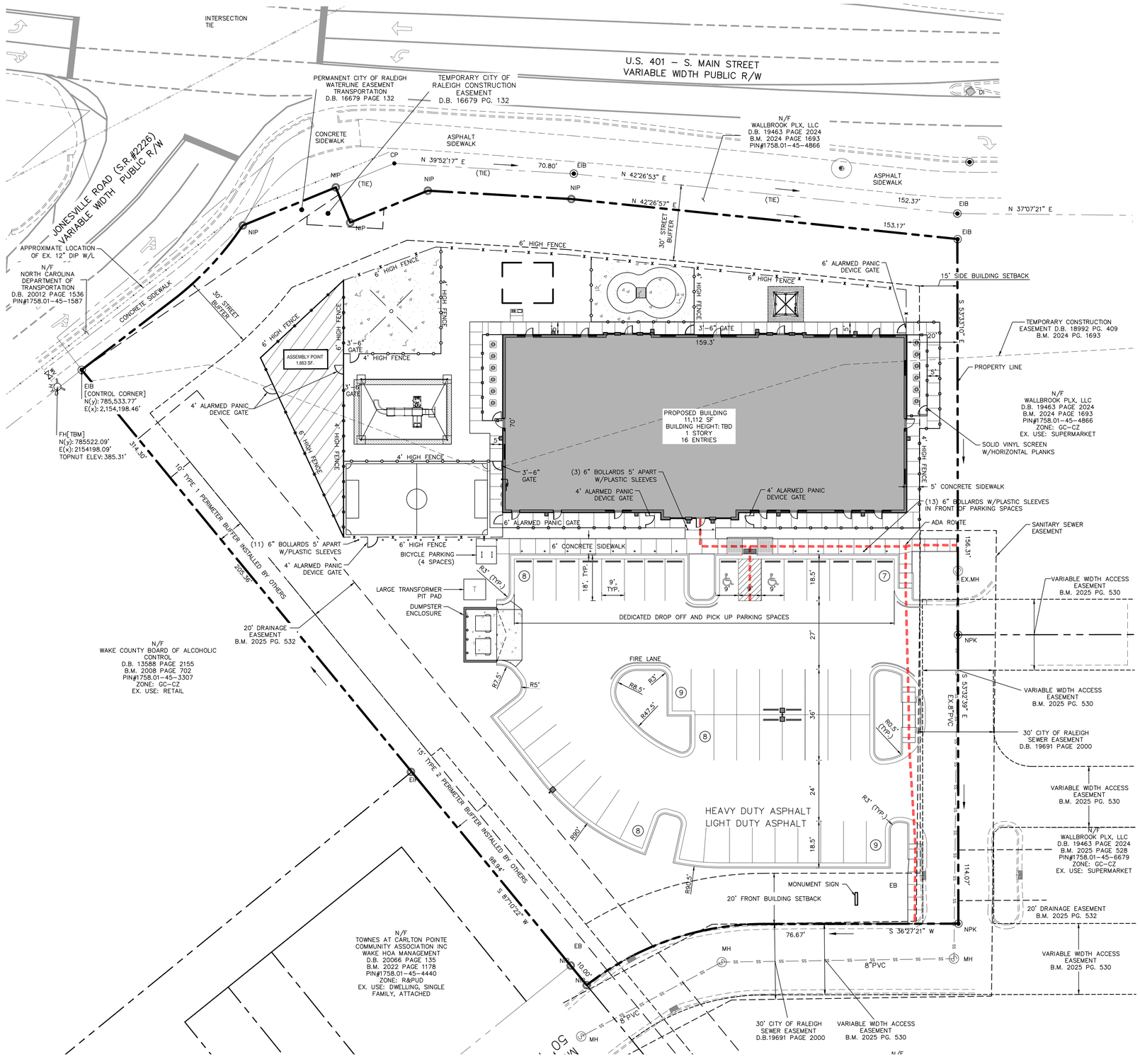

SITE DATA SUMMARY

PROJECT NAME:	KIDDIE ACADEMY LOT 4 AT WALLBROOK
PARCEL ID(S):	1758-45-3676
SITE ADDRESS:	851 S MAIN ST
JURISDICTION:	RO – ROLESVILLE
EXISTING ZONING:	GC-CZ
RIVER BASIN:	NEUSE
WATERSHED:	LOWER NEUSE
GROSS SITE AREA:	76,124 SF, 1.75 ACRES
CURRENT USE:	VACANT
PROPOSED USE:	DAYCARE
BUILDING AREA:	11,112 SF
BUILDING HEIGHT:	TBD
SETBACKS & DIMENSIONS:	
FRONT BUILDING SETBACK (MIN):	20'
SIDE BUILDING SETBACK (MIN):	15'
REAR BUILDING SETBACK (MIN):	35'
CORNER BUILDING SETBACK (MIN):	25'
LOT WIDTH (MIN):	100'
LOT AREA (MIN):	20,000 SF
PRIMARY STREET PARKING SETBACK:	10'
SIDE LOT PARKING SETBACK:	10'
REAR LOT PARKING SETBACK:	0' OR 3'
VEHICLE PARKING MINIMUM:	2.5 SPACES/1,000 SF = 28 SPACES (INCL. 2 H/C)
VEHICLE PARKING MAXIMUM:	5 SPACES/1,000 SF = 56 SPACES
PROVIDED VEHICLE PARKING:	49 SPACES (INCL. 2 H/C)
BICYCLE PARKING REQUIRED (MIN.):	1 SPACE/5,000 SF = 2 SPACES
BICYCLE PARKING PROVIDED :	2 SPACES
EXISTING IMPERVIOUS AREA:	0 SF
PROPOSED IMPERVIOUS AREA:	37,378 SF, 0.86 AC (49%)
TREE COVERAGE	0 SF
TOTAL DISTURBED AREA:	72,296 SF/1.66 AC.
OPEN SPACE REQUIRED (MIN.): (PER LDO SEC. 6.2.1.D.3)	5% OF GROSS SITE AREA = 3,806 SF
OPEN SPACE PROVIDED:	11,169 SF OF ACTIVE USE AREA

PARKING REQUIREMENTS:

PARKING REQUIRED: DAY CARE		
	MINIMUM: 2.5/1,000 SF = 11,112/1,000*2.5	28 SPACES
	MAXIMUM: 5/1,000 SF = 11,112/1,000*5	56 SPACES
	TOTAL REQUIRED PARKING:	38 SPACES
	REQUIRED HANDICAP PARKING:	2 SPACES
	PARKING PROVIDED:	49 SPACES (INCL. 2 H/C)

GENERAL NOTES

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HATCH LEGEND

- PROPOSED BUILDING
- HEAVY DUTY PAVEMENT

LINE LEGEND

- PROPERTY BOUNDARY
- ADJACENT BOUNDARY
- EXISTING R/W
- FUTURE R/W
- POND/CREEK
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORMWATER
- EXISTING GAS LINE
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- EXISTING FENCE
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- LIMITS OF DISTURBANCE
- SILT/TREE PROTECTION FENCE

NORTH

SITE PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

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NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 BRANDEL R. KING 1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: BRK
Checked By: SRN

DATE: 30 JAN 2026

CONSTRUCTION DOCUMENT

SITE PLAN

Job Code: SSRCC

Dwg No. SITE 200

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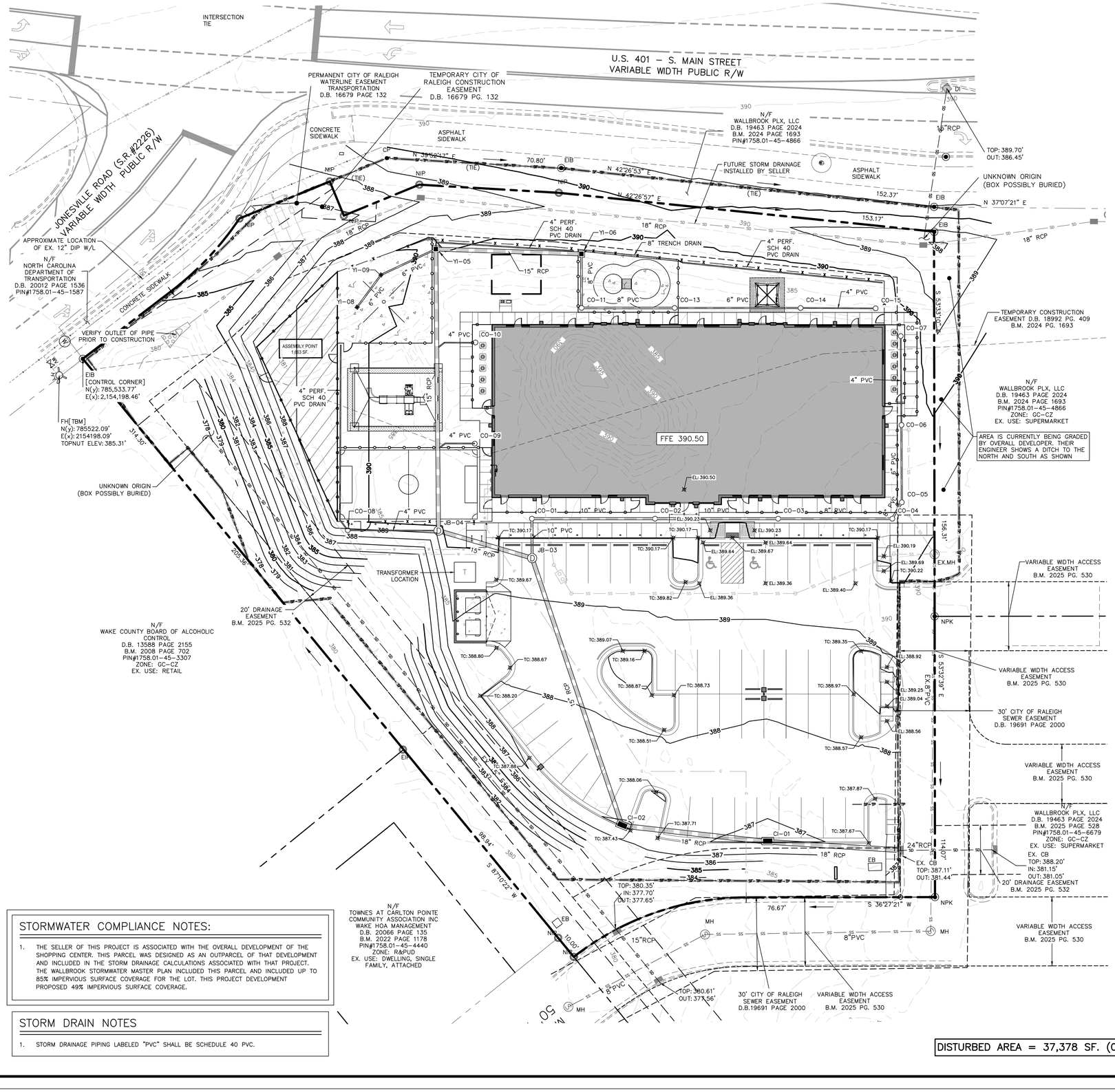

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4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

GRADING NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OR ANY DISCREPANCIES OR CONFLICTS.
3. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
5. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFOR SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
6. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
7. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
8. A TEMPORARY CONSTRUCTION EASEMENT WILL BE REQUIRED FROM THE ADJACENT OWNER, SONAL PATEL, 734-259-9289 PRIOR TO CONSTRUCTION. THIS DRIVEWAY IS BEING BUILT TO SERVE, BOTH PROPERTY OWNERS, WHO HAVE MET AND AGREED ON THE SHARED LOCATION.

LINE LEGEND

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- SILT/TREE PROTECTION FENCE

STORMWATER COMPLIANCE NOTES:

1. THE SELLER OF THIS PROJECT IS ASSOCIATED WITH THE OVERALL DEVELOPMENT OF THE SHOPPING CENTER. THIS PARCEL WAS DESIGNED AS AN OUTPARCEL OF THAT DEVELOPMENT AND INCLUDED IN THE STORM DRAINAGE CALCULATIONS ASSOCIATED WITH THAT PROJECT. THE WALLBROOK STORMWATER MASTER PLAN INCLUDED THIS PARCEL AND INCLUDED UP TO 85% IMPERVIOUS SURFACE COVERAGE FOR THE LOT. THIS PROJECT DEVELOPMENT PROPOSED 49% IMPERVIOUS SURFACE COVERAGE.

STORM DRAIN NOTES

1. STORM DRAINAGE PIPING LABELED "PVC" SHALL BE SCHEDULE 40 PVC.

DISTURBED AREA = 37,378 SF. (0.86 AC.)

GRADING PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

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NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 SHANNON R. NITCHMAN
1/30/2026

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KIDDIE ACADEMY LOT 4 AT WALLBROOK

851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: BRK
Checked By: SRN

DATE: 30 JAN 2026

CONSTRUCTION DOCUMENT

GRADING PLAN

Job Code: SSRCC

Dwg No. SITE 300

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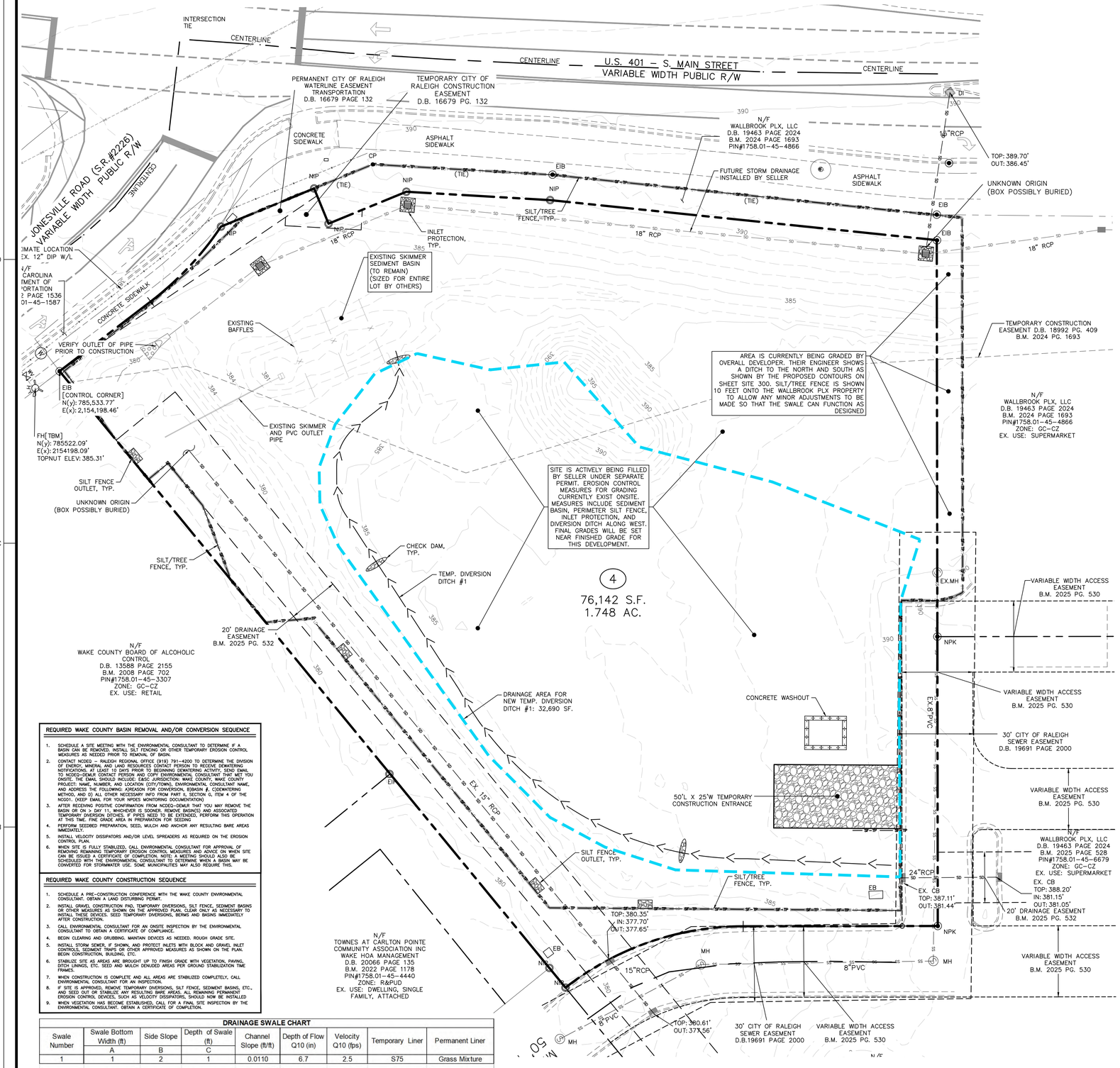

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EROSION CONTROL NOTES

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6. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
7. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
8. 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.
9. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE TOWN'S 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 TOWN'S 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.

CONSTRUCTION SEQUENCE (INITIAL PHASE):

1. OBTAIN A LAND DISTURBING PERMIT.
2. PRIOR TO BEGINNING CONSTRUCTION, CALL THE STORMWATER INSPECTOR TO SCHEDULE AN ON-SITE PRECONSTRUCTION MEETING.
3. CLEAR ONLY AS NECESSARY TO INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE INITIAL EROSION CONTROL PLAN:
   A. INSTALL CONSTRUCTION ENTRANCE.
   B. INSTALL SILT FENCING AND SILT FENCE OUTLETS.
   C. INSTALL DIVERSION DITCH.
   D. INSTALL INLET PROTECTION ON EXISTING SD STRUCTURES.
4. VERIFY EXISTING BASIN MEETINGS MINIMUM DIMENSIONS SHOWN ON PLANS, BAFFLES ARE WELL MAINTAINED, AND SKIMMER IS CLEAR AND PLACED ON EXISTING STONE BED.
8. SCHEDULE A SITE INSPECTION THROUGH WAKE COUNTY.
9. UPON APPROVAL OF THE STORMWATER SITE INSPECTION, BEGIN GRADING AND UTILITY SCOPE.
4. INSTALL U/G UTILITIES, STORMWATER PIPES, INLETS, ROAD BEDS, CURB AND GUTTER AND BEGIN BUILDING CONSTRUCITON. AS STORMDRAIN INLETS AND PIPING ARE INSTALLED, PROVIDE INLET PROTECTION. [NOTE THAT OFFSITE SEDIMENT THROUGH THE SD NETWORK WILL GO DIRECTLY TO EXISTING WET DETENTION BASIN THAT IS INSTALLED AND CONVERTED. TAKE EXTRA CARE TO AVOID SEDIMENT GETTING INTO THE EXISTING STORM DRAINAGE SYSTEM.]
3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CAN NOT HAVE HOLES OR TEARS.
4. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
6. SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.
7. WHEN PROJECT CONSTRUCTION HAS BEEN COMPLETED TO THE POINT WHERE THE EXISTING SKIMMER BASIN MUST BE REMOVED TO CONTINUE, SCHEDULE A SITE INSPECTION THROUGH WAKE COUNTY.
8. UPON APPROVAL OF THE STORMWATER SITE INSPECTION, REMOVE THE EXISTING SEDIMENT SKIMMER BASIN AND STABILIZE BASIN AREA.
9. PROCEED TO FINAL EROSION CONTROL PLAN SCOPE OF WORK. SEE SITE 303.

REQUIRED WAKE COUNTY BASIN REMOVAL AND/OR CONVERSION SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF BASIN.
2. CONTACT NCDEQ – RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION: WAKE COUNTY, WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A)REASON FOR CONVERSION, B)BASIN #, C)DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION)
3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY.
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET PROTECTION OR OTHER SIMILAR, EFFECTIVE APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION OF BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

DRAINAGE SWALE CHART

Swale Number	Swale Bottom Width (ft) A	Side Slope B	Depth of Swale (ft) C	Channel Slope (ft/ft)	Depth of Flow Q10 (in)	Velocity Q10 (fps)	Temporary Liner	Permanent Liner
1	1	2	1	0.0110	6.7	2.5	S75	Grass Mixture

NOTE: LINER MATERIAL TO BE NORTH AMERICAN GREEN/TENSAR OR APPROVED EQUAL

EROSION CONTROL LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT LOT LINE
- CENTER LINE
- LIMITS OF DISTURBANCE
- SETBACK LINE
- EXISTING EASEMENTS
- EXISTING BUFFER LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- TREE PROTECTION FENCING
- CHECK DAM
- SILT FENCE OUTLET
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- INLET PROTECTION

DISTURBED AREA = 37,378 SF. (0.86 AC.)

NORTH

INITIAL EROSION CONTROL PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 BRIDGET M. DEMEL
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY LOT 4 AT WALLBROOK

851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By CJB
Checked By BDM

DATE: 30 JAN 2026

SITE DEVELOP. PLAN

INITIAL EROSION CONTROL PLAN

Job Code SSRCC

Dwg No. SITE 301

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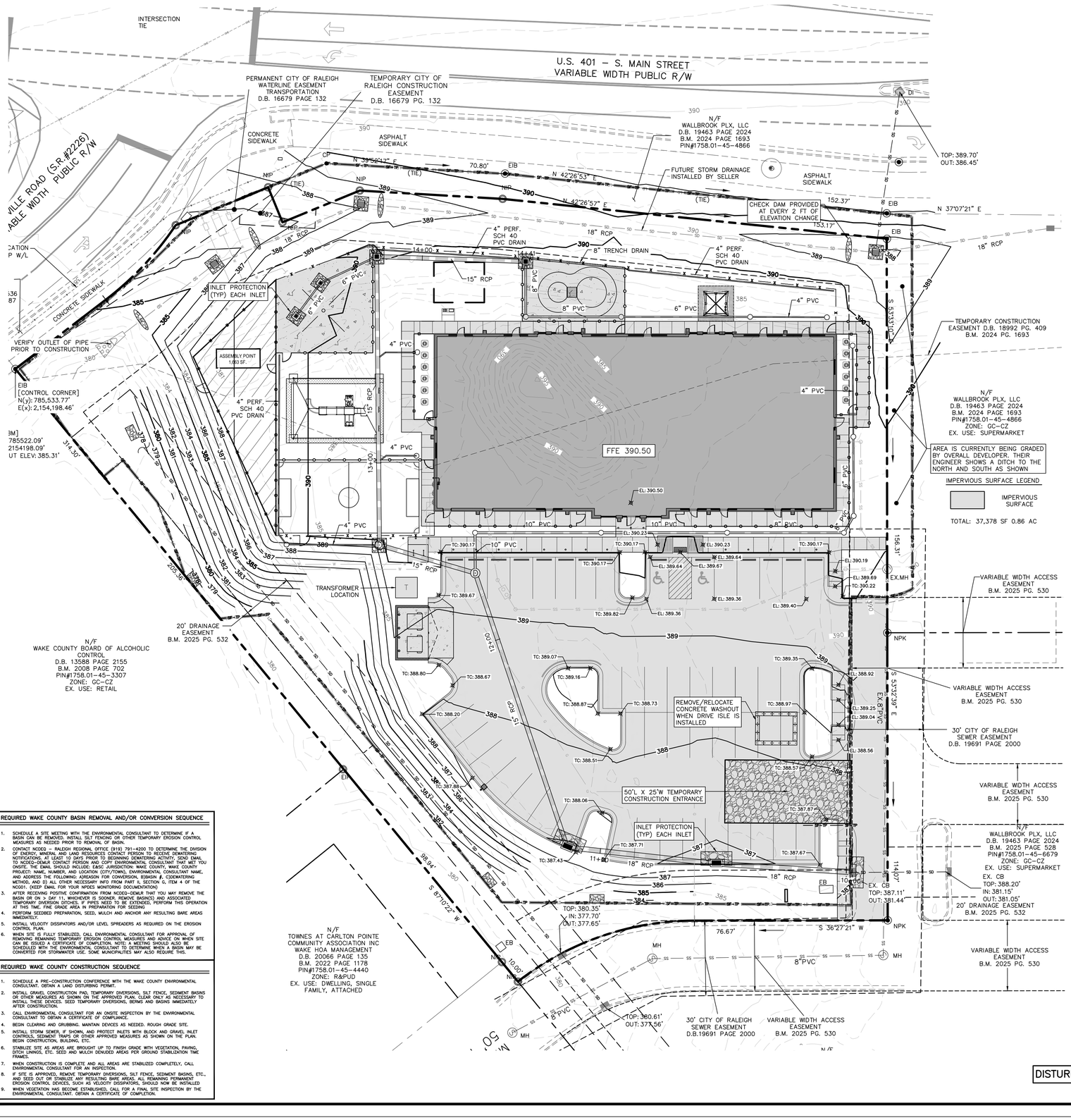

REQUIRED WAKE COUNTY BASIN REMOVAL AND/OR CONVERSION SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF BASIN.
2. CONTACT NCDEQ – RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO ASCERTAIN DRAWDOWN REQUIREMENTS FOR REMOVING OR CONVERTING THE REMAINING SEDIMENTATION BASIN(S). SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION: WAKE COUNTY; WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN); ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A)REASON FOR CONVERSION, B)BASIN #, C)DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION)
3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING
4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OF STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF APEX, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY PENNONI ASSOCIATES, DATED JUNE 20, 2023. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM APPROVED PLANS FOR ARDEN AT SUMMIT PINES PUD. ADDITIONAL OFFSITE INFORMATION TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIEND VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH WAKE COUNTY STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OR ANY DISCREPANCIES OR CONFLICTS.
3. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
5. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
6. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
7. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
8. 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.
9. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECT AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE TOWN'S 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 TOWN'S 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.

CONSTRUCTION SEQUENCE (FINAL PHASE):

CONTINUED FROM SHEET SITE 301

1. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CAN NOT HAVE HOLES OR TEARS.
2. CALL SAM NYE AT 919-835-4787 FOR SITE INSPECTION A MINIMUM TWO WEEKS PRIOR TO REQUESTING TOWN FINAL INSPECTION.
3. ONCE APPROVED, SURVEY EXISTING SCM TOPO AND STRUCTURE ELEVATIONS.
4. AS-BUILTS MUST BE COMPLETED AND SUBMITTED ONE WEEK PRIOR TO FINAL INSPECTION.
5. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
6. SCHEDULE THE FINAL SITE INSPECTION THROUGH WAKE COUNTY.
7. SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.

EROSION CONTROL LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT LOT LINE
- CENTER LINE
- LIMITS OF DISTURBANCE (LD)
- SETBACK LINE
- EXISTING EASEMENTS
- EXISTING BUFFER LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- TREE PROTECTION FENCING (SF-TP)
- CHECK DAM
- SILT FENCE OUTLET
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- INLET PROTECTION

DISTURBED AREA = 37,378 SF. (0.86 AC.)

NORTH

FINAL EROSION CONTROL PLAN

SCALE: 1" = 40' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 40 80 120 160

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CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER BRENDEL R. NYE
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By CJB
Checked By BDM

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

FINAL EROSION CONTROL PLAN

Job Code SSRCC

Dwg No. SITE 302

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

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

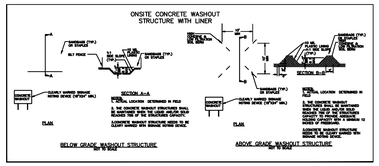
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled,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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

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



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

(a) This General Permit as well as the Certificate of Coverage, after it is received.

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

3. Documentation to be Retained for Three Years

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours,*** an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours,*** an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours,*** an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours,*** an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

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

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

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER BRANDEL R. NIX
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By CJB
Checked By BDM

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

NPDES PLAN

Job Code SSRCC

Dwg No.
SITE
303

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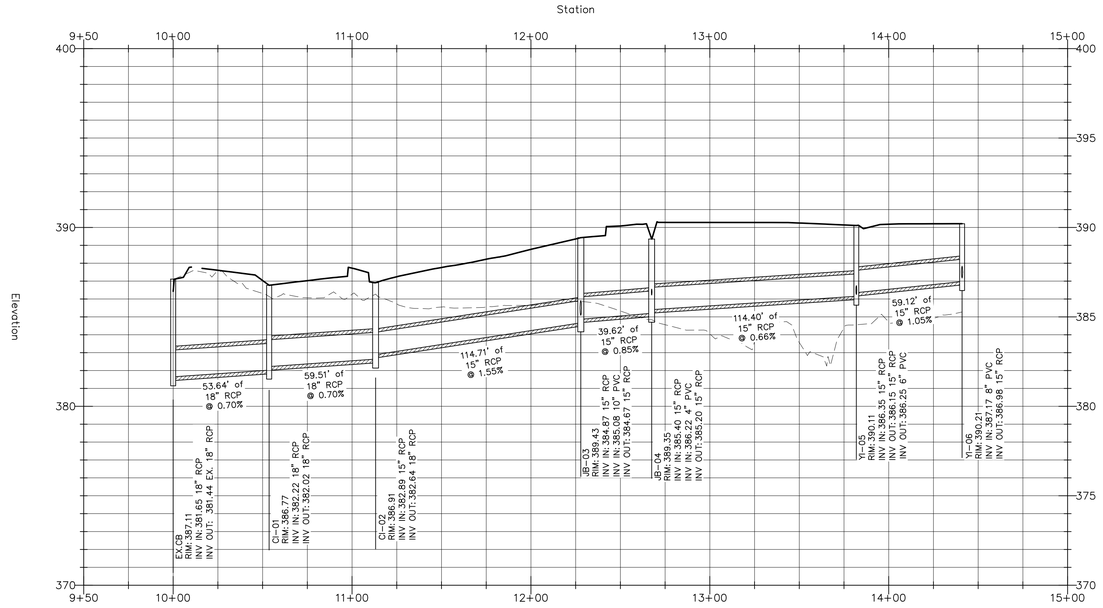

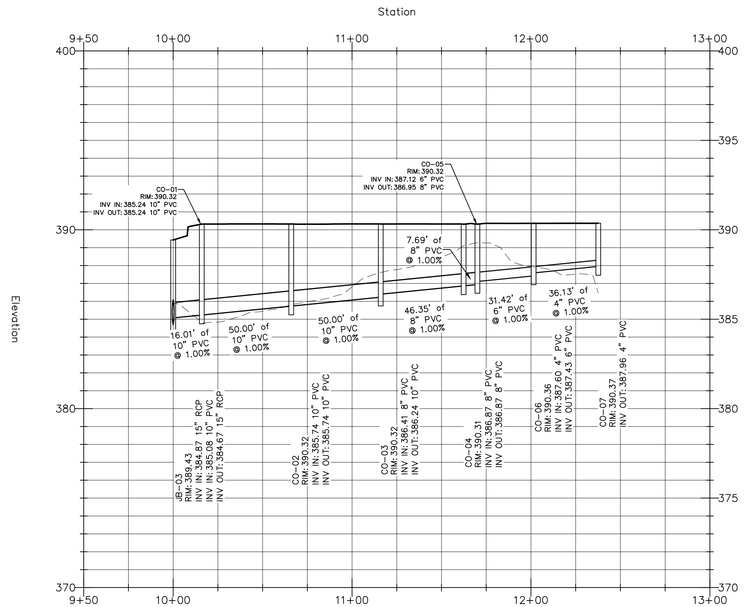

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

THE SITE GROUP, PLLC
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CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NITZ
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK

551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: CJB
Checked By: BDM

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

STORM DRAINAGE PROFILES

Job Code: SSRCC

Dwg No.
SITE
304

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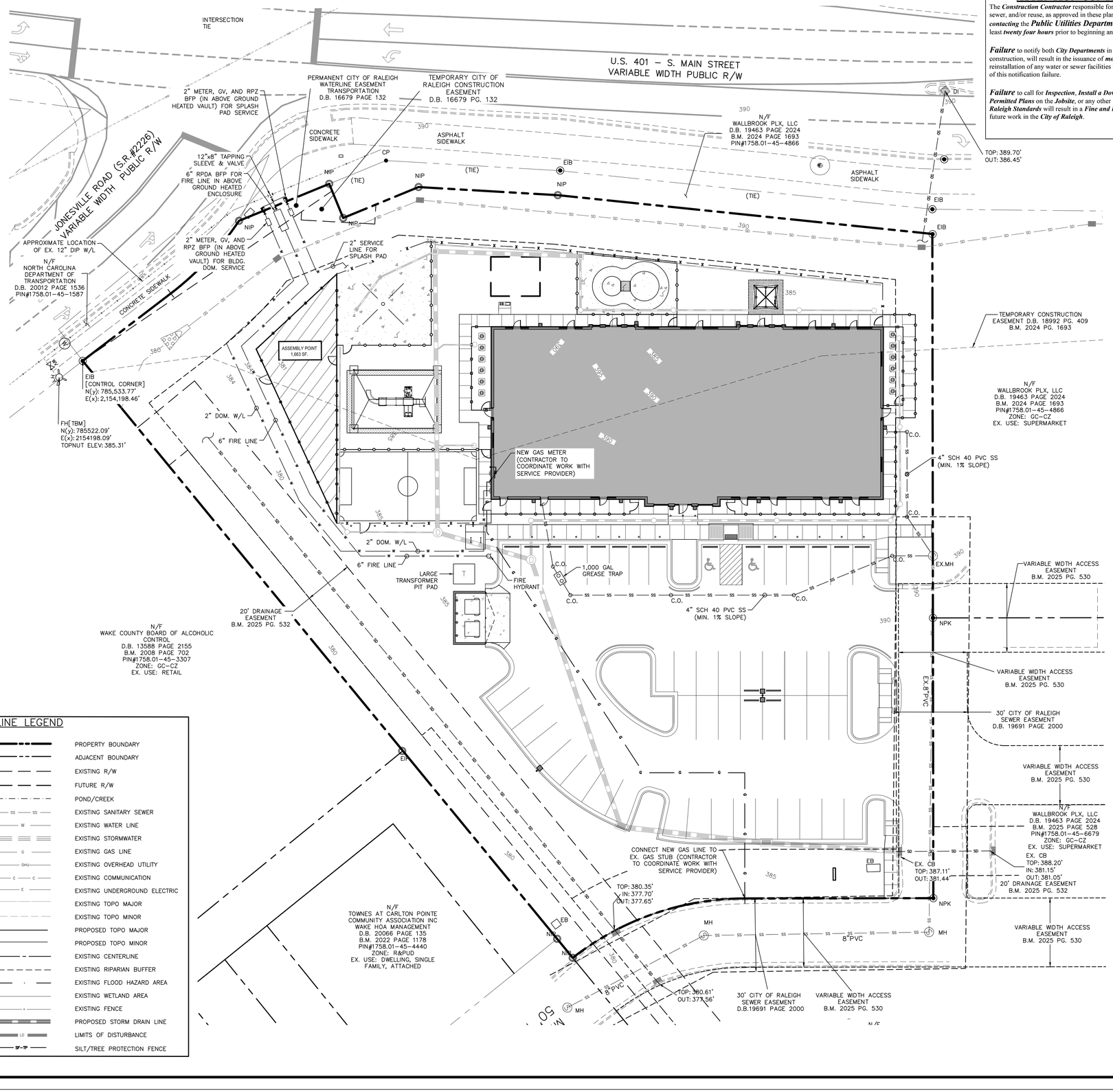

ATTENTION CONTRACTORS

The ***Construction Contractor*** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for ***contacting*** the ***Public Utilities Department*** at ***(919) 996-4540*** at least ***twenty four hours*** prior to beginning any of their construction.

Failure to notify both ***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***.

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

STANDARD UTILITY NOTES (AS APPLICABLE):

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:
   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.
   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.
   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.
   d. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
   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).
   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".

LINE LEGEND

- PROPERTY BOUNDARY
- ADJACENT BOUNDARY
- EXISTING R/W
- FUTURE R/W
- POND/CREEK
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORMWATER
- EXISTING GAS LINE
- EXISTING OVERHEAD UTILITY
- EXISTING COMMUNICATION
- EXISTING UNDERGROUND ELECTRIC
- EXISTING TOPO MAJOR
- EXISTING TOPO MINOR
- PROPOSED TOPO MAJOR
- PROPOSED TOPO MINOR
- EXISTING CENTERLINE
- EXISTING RIPARIAN BUFFER
- EXISTING FLOOD HAZARD AREA
- EXISTING WETLAND AREA
- EXISTING FENCE
- PROPOSED STORM DRAIN LINE
- LIMITS OF DISTURBANCE
- SILT/TREE PROTECTION FENCE

UTILITY PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NITZ
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY LOT 4 AT WALLBROOK

551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By	BRK
Checked By	SRN

DATE: 30 JAN 2026

SITE DEVELOP. PLAN

UTILITY PLAN

Job Code SSRCC

Dwg No. SITE 400

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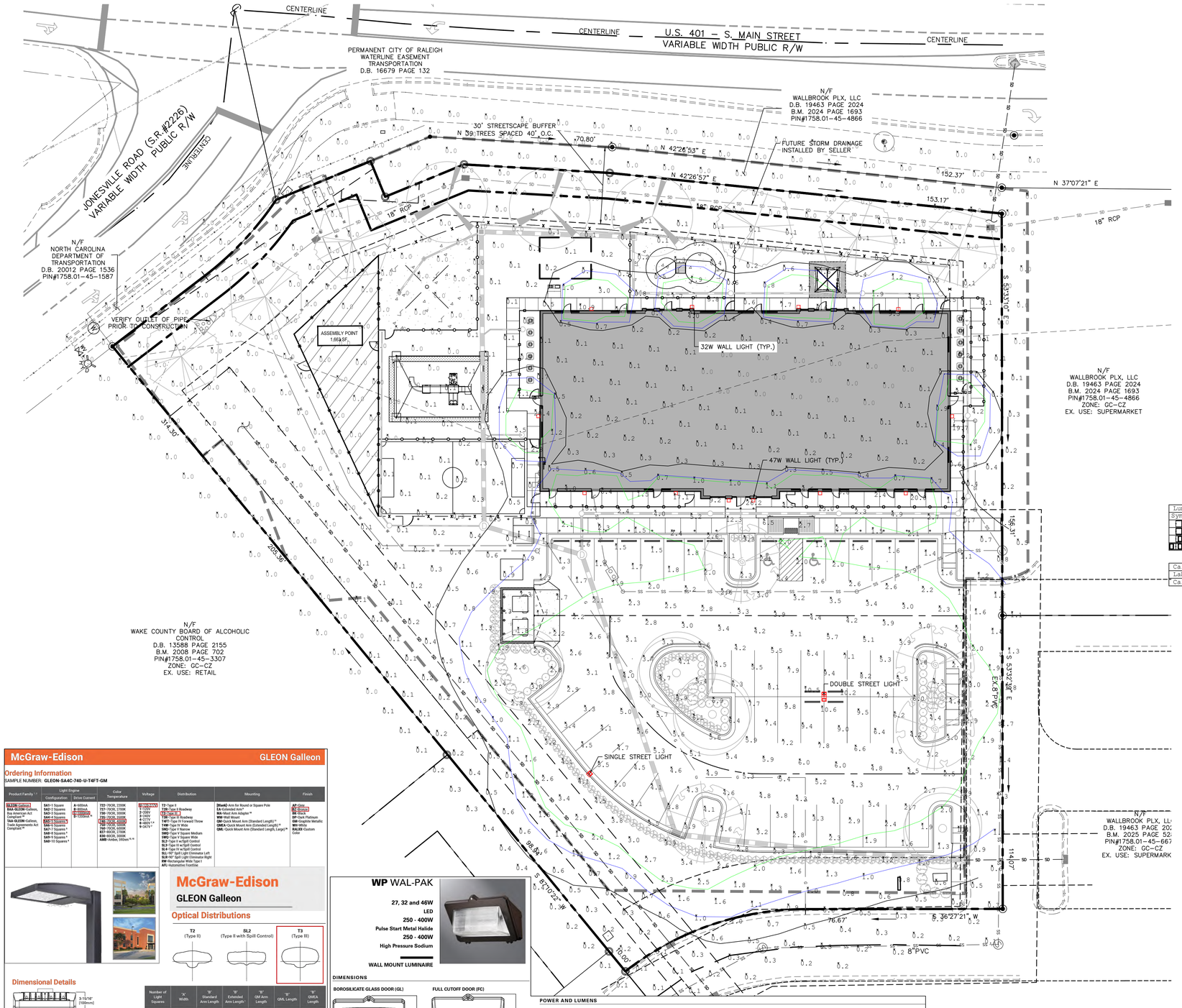
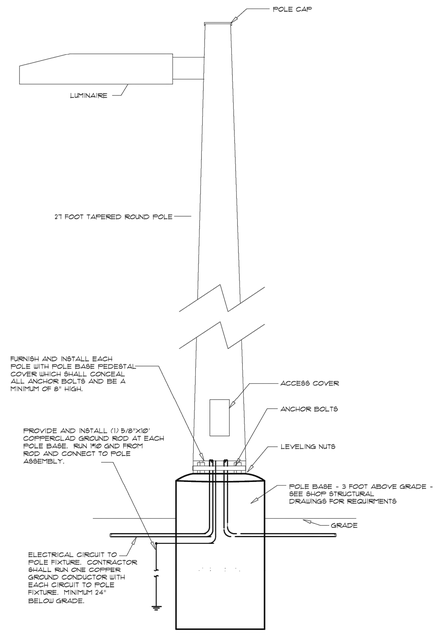




2 SE-21 POLE BASE DETAIL – POLE MOUNTED FIXTURE
NOT TO SCALE
ELEVATED POLE BASE

Luminaire Schedule							
Sym	Qty	Label	Arrangement	Mounting HT	Description	Tag	LLF
	4	LDWP-FC-4B-ED-704 1	Single	8'	LDWP-FC-4B-ED-7040	32W WALL LIGHT	1.000
	8	LDWP-FC-6B-ED-7040	Single	8'	LDWP-FC-6B-ED-7040	47W WALL LIGHT	1.000
	1	GLEON-SA5C-740-U-5WQ 1	Single	30'	GLEON-SA5C-740-U-T4W	SINGLE STREET LIGHT	1.000
	1	GLEON-SA5C-740-U-5WQ	Back-Back	30'	GLEON-SA5C-740-U-T3	DOUBLE STREET LIGHT	1.000

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Max/Avg
CalcPts 1	Illuminance	Fc	1.40	26.2	0.0	N.A.	N.A.	N.A.

LIGHTING NOTES

1. LIGHT POLES ARE TO BE LOCATED 20' (MIN) AWAY FROM CANOPY TREES.
2. LIGHT LEVELS AT RESIDENTIAL PROPERTY LINES SHALL NOT EXCEED 0.5 FC
3. LIGHT LEVELS AT PUBLIC RIGHT OF WAYS SHALL NOT EXCEED 2.0 FC
4. ANY WALL PACKS INSTALLED ON THE BUILDING MUST BE FULL CUT OFF FIXTURES.
5. FIXTURE SYMBOLS ARE ILLUSTRATIVE AND HAVE BEEN INCREASED IN SIZE.
6. DUKE ENERGY PROGRESS SERVICE IS AVAILABLE FOR THIS SITE. FINAL PHOTOMETRICS TO BE PER DUKE ENERGY LAYOUT.

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY STEWART-PROCTOR ENGINEERING & SURVEYING DATED JUNE 5, 2025. ADDITIONAL SITE INFORMATION TAKEN FROM WAKE COUNTY GIS.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A STANDARDS.

NORTH

LIGHTING PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

McGraw-Edison — GLEON Galleon

Ordering Information

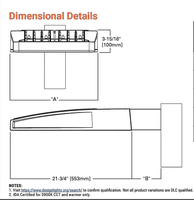
SAMPLE NUMBER: **GLEON-SA4C-740-U-T4FT-GM**

Product Family * 1	Light Engine: Configuration	Light Engine: Drive Current	Color Temperature	Voltage	Distribution	Mounting	Finish
GLEON Galleon **BAA-GLEON** Galleon, Buy American Act Compliant * **TAA-GLEON** Galleon, Trade Agreements Act Compliant *	**SA1**=1 Square **SA2**=2 Squares **SA3**=3 Squares **SA4**=4 Squares **SA5**=5 Squares **SA6**=6 Squares * **SA7**=7 Squares * **SA8**=8 Squares * **SA9**=9 Squares * **SA10**=10 Squares *	**A**=400mA **B**=800mA **C**=1000mA **D**=1200mA *	**727**=727K, 2700K **730**=730K, 3000K **735**=735K, 3500K **740**=740K, 4000K **750**=750K, 5000K **757**=757K, 5700K **807**=807K, 7700K **830**=830K, 3000K **AMB**=Amber, 590nm *	**UNIVERSAL** **120**=120V **208**=208V **240**=240V **277**=277V **347**=347V **480**=480V **HVU**=347V-480V *	**T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SNV**=Type V Narrow **SNM**=Type V Square Medium **SNW**=Type V Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type II **AFL**=Automotive Frontline	**(Blank)**=Arm for Round or Square Pole **EA**=Extended Arm * **MA**=Mast Arm Adaptor ** **QA**=QML Arm **QM**=Quick Mount Arm (Standard Length) * **QMEA**=Quick Mount Arm (Extended Length) * **QML**=Quick Mount Arm (Standard Length, Large) *	**AP**=Grey **DP**=Dark Platinum **DM**=Graphite Metallic **WH**=White **RAL9**=Custom Color

McGraw-Edison
GLEON Galleon

Optical Distributions

Dimensional Details



Number of Light Squares	'A' Width	'B' Standard Arm Length	'B' Extended Arm Length	'B' QM Arm Length	'B' QML Length	'B' QMEA Length
1-4	15-1/2"	7"	10"	10-5/8"	--	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	--	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	10-5/16"	--
9-10	33-3/4"	7"	16"	--	10-5/16"	--

NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. Not Certified for 5000K CCT and warmer only.

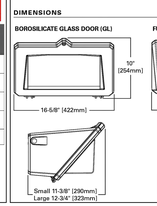
WP WAL-PAK

27, 32 and 46W
LED
250 - 400W
Pulse Start Metal Halide
250 - 400W
High Pressure Sodium

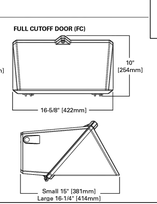
WALL MOUNT LUMINAIRE

DIMENSIONS

BOROSILICATE GLASS DOOR (GL)



FULL CUTOFF DOOR (FC)



POWER AND LUMENS

Catalog Number	Lumens	Power Consumption (Watts)	B.U.G. Rating	Correlated Color Temperature CCT (Kelvin)	Color Rendering Index (CRI)
Full Cutoff Door (FC)					
LDWP-FC-3B-ED-7040	1,884	27W	B1-U0-G1	4000K	72
LDWP-FC-4B-ED7040	2,239	32W	B1-U0-G1	4000K	73
LDWP-FC-6B-ED-7040	3,137	47W	B1-U0-G1	4000K	73

Product Family *	Lamp Type	Door Type *	Lamp Wattage *	Voltage *
WP-Wal-Pak BAA-WP-Wal-Pak, Buy American Act Compliant * TAA-WP-Wal-Pak, Trade Agreements Act Compliant *	LED-Solid State Light-Emitting Diodes (LED) * 1 HP-High Pressure Sodium MP-Pulse Start Metal Halide	GL-Borosilicate Glass Door FC-Full Cutoff Door	LED 3B-(3 Package), 27W 4B-(4 Package), 32W 6B-(6 Package), 46W HP 250-250W 400-400W	120V-120V 208V-208V 240V-240V 277V-277V 347V-347V * 480V-480V * DT-Dual-Tap

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 34981 BRADLEY D. MCDANIEL JR. 1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: BDM

DATE:
30 JAN 2026

SITE DEVELOP. PLAN

LIGHTING PLAN

Job Code: SSRCC

Dwg No.
SITE 401

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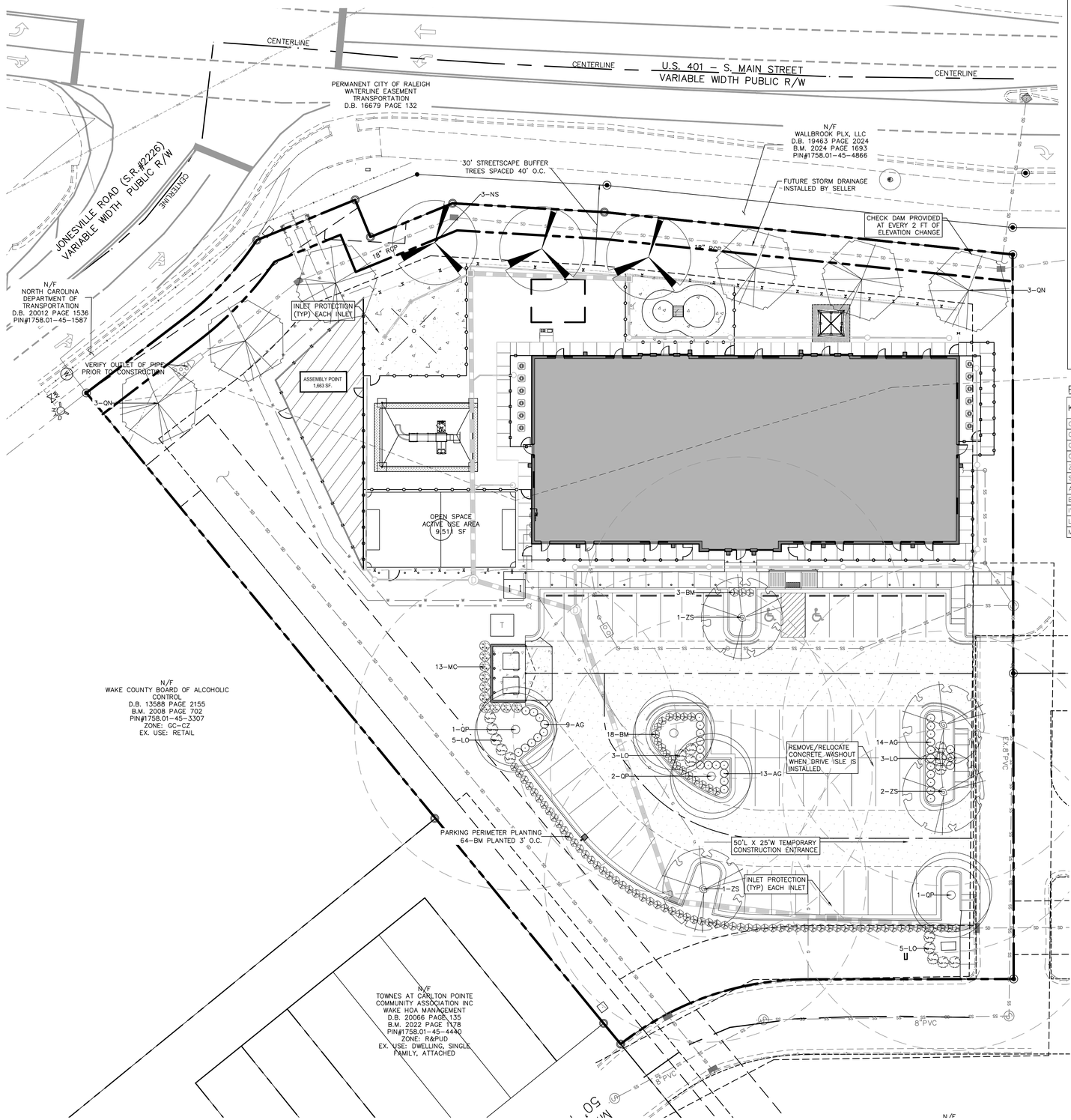
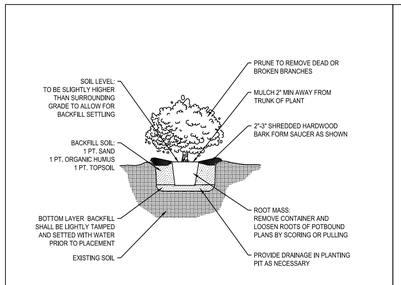
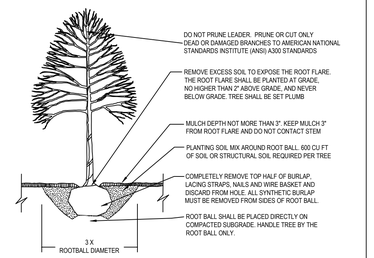




NOTES:

1. TO PROMOTE AERATION AND PERCOLATION IN HEAVY SOIL, PLANT ROOTBALL ABOVE EXISTING GRADE AS SHOWN.
2. PROVIDE AN EARTH SAUCER FOR WATER RETENTION.
3. BACKFILL WITH 80% PARENT MATERIAL AND 20% DECOMPOSED ORGANIC MATERIAL BY VOLUME WELL MIXED AS APPROVED BY THE ARCHITECT.
4. PROVIDE 6" MINIMUM OF BACKFILL ON EACH SIDE OF ROOTBALL TO PROMOTE RAPID REESTABLISHMENT.
5. PROVIDE MINIMUM 4" THICK PINE STRAW IN 5' WIDE PLANTING BED OR AS DIRECTED ON PLANS.
6. SHRUBS WILL HAVE A MINIMUM 1 YEAR WARRANTY FROM DATE OF INSTALLATION.

SHRUB PLANTING DETAIL



NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE DRAINAGE OF ALL PLANTING PITS. (POSITIVE DRAINAGE AWAY FROM PIT)
2. TREES SHALL BE PLANTED BETWEEN OCTOBER 1ST AND APRIL 30TH.
3. ELECTRICAL OUTLETS AND OTHER UTILITIES ARE PROHIBITED IN THE PLANTING AREA IMMEDIATELY SURROUNDING THE TREE.
4. TREES WILL HAVE A MINIMUM 1 YEAR WARRANTY AFTER THE INITIAL PLANTING IS APPROVED.

TREE PLANTING DETAIL

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SIZE	ROOT	SPACING	NATIVE STATUS	MATURE HT./SPRD
CANOPY TREES									
QL	3	NYSSA SYLVATICA 'WILDFIRE'	BLACK GUM	12" HT. MIN.	3" CAL.	B&B	40' MAX	NATIVE	50'/40'
QN	6	QUERCUS NUTTALLII	NUTTALL OAK	12" HT. MIN.	3" CAL.	B&B	40' MAX	NATIVE	60'/40'
QP	4	QUERCUS PHELLOS	WILLOW OAK	12" HT. MIN.	3" CAL.	B&B	AS SHOWN	NATIVE	60'/40'
ZS	4	ZELKOVA SERRATA 'VILLAGE GREEN'	JAPANESE ZELKOVA	12" HT. MIN.	3" CAL.	B&B	AS SHOWN	NON-NATIVE	50'/40'
SHRUBS									
AG	36	ABELIA GRANDIFORA 'ROSE CREEK'	ROSE CREEK ABELIA	24" HT. MIN.		CONT.	AS SHOWN	NON-NATIVE	3'/4'
BM	85	BUXUS MICROPHYLLA VAR. JAPONICA 'WINTER GEM'	WINTERGEM BOXWOOD	24" HT. MIN.		CONT.	3' O.C.	NON-NATIVE	5'/5'
IVS	17	ILEX VOMITORIA 'SCHILLINGS'	DWARF YAUPON HOLLY	24" HT. MIN.		CONT.	4' O.C.	NATIVE	3'/4'
LO	16	LOROPETALUM CHINENSIS 'RUBY'	CHINESE FRINGE FLOWER	24" HT. MIN.		CONT.	AS SHOWN	NON-NATIVE	5'/5'
MC	10	MYRICA CERIFERA	SOUTHERN WAX MYRTLE	36" HT. MIN.		CONT.	AS SHOWN	NATIVE	15'/10'

PLANTING NOTES:

LOCATE PLANTS AND PLANTING BEDS BY USING SCALED DIMENSIONS FROM STREET, PROPERTY LINES, BACK OF CURB, BUILDINGS, WALLS, ETC. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET BY THE U.S.D.A. FOR NURSERY STOCK SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., WASHINGTON, D.C. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND/OR THE LANDSCAPE ARCHITECT.

SYMBOLS: B&B = BALLED & BURLAPPED; B.R. = BARE ROOT; CONT. = CONTAINER, O.C. = ON-CENTER, (R) = TO REMAIN

MULCH: MULCH ALL BED AREAS WITH SHREDDED PINE MULCH TO A DEPTH OF 3".

NOTE:

1. NO PORTION OF ANY PARKING SPACE SHALL BE LOCATED MORE THAN SIXTY (60) FEET FROM AN ON-SITE LARGE (CANOPY) TREE. FOR PURPOSES OF THIS SECTION, THE MEASUREMENT SHALL BE FROM THE CLOSEST EDGE OF THE SUBJECT AREA TO THE CENTER OF THE BASE OF THE CLOSEST QUALIFYING TREE IN ACCORDANCE WITH SEC 6.2.4.4 OF THE LDO.
2. ALL SHRUB SPECIES SHALL REACH A MINIMUM OF 36" WITHIN THREE YEARS OF INSTALLATION.
3. MINIMUM PLANT SIZES SHALL BE IN ACCORDANCE WITH THE SECTION 6.2.4.3 OF THE LDO AS FOLLOWS:

PLANTING MATERIAL TYPE	MINIMUM PLANTING SIZE
DECIDUOUS CANOPY TREE (≥ 35' HT, ≥ 30' SPREAD)	3" CALIPER, 12' HT
EVERGREEN SHRUB	24" HT

4. DUMPSTER SHALL BE ENCLOSED ON 3 SIDES IN ACCORDANCE WITH SECTION 6.2.4.6.
5. NO TREES OR SHRUBS SHALL BE PLANTED WITHIN SANITARY SEWER, WATERLINE, OR ELECTRIC EASEMENTS WITHOUT THE TOWN AND EASEMENT HOLDER APPROVAL.
6. LANDSCAPING SHALL BE COMPLIANT WITH SECTION 6.2.4.
7. MINIMUM 3 FEET CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE BUILDING CODE.

LANDSCAPE REQUIREMENTS:

1. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
2. ALL MECHANICAL EQUIPMENT, WASTE DISPOSAL FACILITIES, AND VEHICULAR USE AREAS (DRIVES AND PARKING) SHALL BE SCREENED FROM PUBLIC VIEW.
3. ALL ABOVE GROUND UTILITY EQUIPMENT AND FACILITIES ASSOCIATED WITH ON-SITE ELECTRIC, CABLE, TELEPHONE, GAS OR OTHER SIMILAR UTILITY SHALL BE LOCATED IN THE SIDE OF REAR YARD AREA OF THE SITE AND SCREENED, TO THE EXTENT POSSIBLE, WITH EVERGREEN PLANTINGS. PLANTINGS SHALL ALLOW FOR A MINIMUM OF 5' CLEARANCE AROUND THE STRUCTURE TO ALLOW FOR ACCESS. ADDITIONALLY, ANY SIDE OF THE STRUCTURE HAVING A DOOR OR LOCK, THE PLANTINGS SHALL ALLOW FOR A 10' CLEARANCE. THE AMOUNT OF CLEARANCE SHALL ACCOUNT FOR THE SIZE OF THE PLANT MATERIAL AT MATURITY.
4. THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHANG FROM THE BACK OF CURB.
5. NO TREE SHALL BE LOCATED WITHIN A ROADWAY RIGHT OF WAY OR WITHIN 5' OF A SIDEWALK AND WITHIN 20' OF A LIGHTING LOCATION.
6. ALL SHRUBS INSTALLED AS VEHICULAR USE SCREENING WILL BE MAINTAINED AS A CONTINUOUS HEDGE AT A MINIMUM HEIGHT OF 36 INCHES.
7. WHERE EXISTING OR PROPOSED VEGETATION FAILS TO FUNCTION ADEQUATELY AS REQUIRED, THE CITY OF RALEIGH SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL PLANTINGS IN ADDITION TO THOSE SHOWN ON THE LANDSCAPE PLAN BASED ON ACTUAL FIELD CONDITIONS.
8. UPON ESTABLISHMENT OF FINISHED GRADES AND PRIOR TO BEGINNING INSTALLATION OF ANY TREES, A SOIL AMENDMENT SCHEDULE FOR ALL TREE PLANTINGS SHALL BE PREPARED BY A CERTIFIED LANDSCAPE ARCHITECT.
9. THE PROPERTY OWNER OR DEVELOPER SHALL PROVIDE FOR CONTINUOUS MAINTENANCE OF THE LANDSCAPE AREAS AFTER OCCUPANCY OF THE BUILDING. THE PROPERTY OWNER SHALL ENSURE THAT PERFORMANCE CRITERIA WITHIN THIS ORDINANCE AND/OR INCLUDED ON THE APPROVED SITE AND/OR SUBDIVISION PLAN ARE MET. FAILURE TO CORRECT DEFICIENCIES IN

NORTH

LANDSCAPE PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)

0 20 40 60 80

THE SITE GROUP, PLLC
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NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1419 BRANNON D. SCOTT

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By BDM

DATE:
PROGRESS

SITE DEVELOP. PLAN

LANDSCAPE PLAN

Job Code SSRCC

Dwg No.
SITE 500

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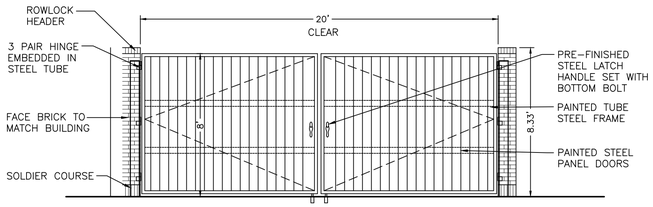
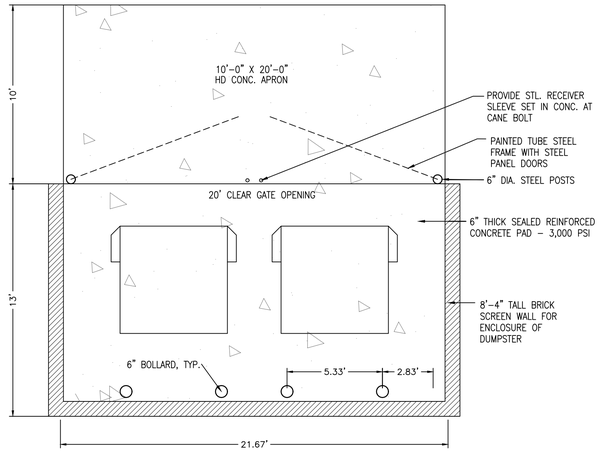
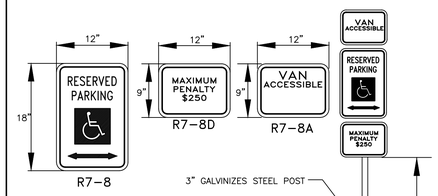




TRASH ENCLOSURE DETAIL
SCALE: 1/4"=1'-0"

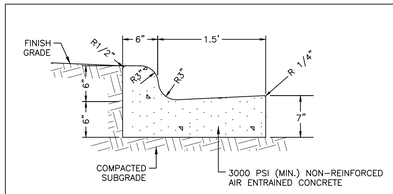


COLORS
LEGEND AND BORDER – GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND – WHITE

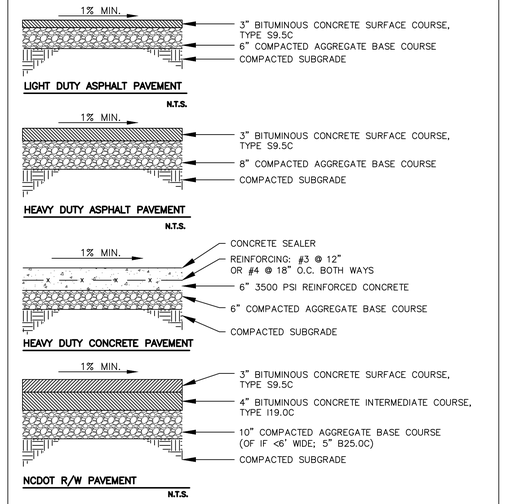
SIGNS APPROVED FOR USE UNDER NC GENERAL STATUTE 20-37.6.

*HEIGHT TO BOTTOM OF LOWEST SIGN SHALL BE 84" WHEN PEDESTRIAN PATH FROM CAR TO WALK PASSES BY OR UNDER SIGN. WHEN PATH DOES NOT PASS BY OR UNDER SIGN, HEIGHT SHALL BE 60"

HANDICAP SIGN DETAIL
N.T.S.

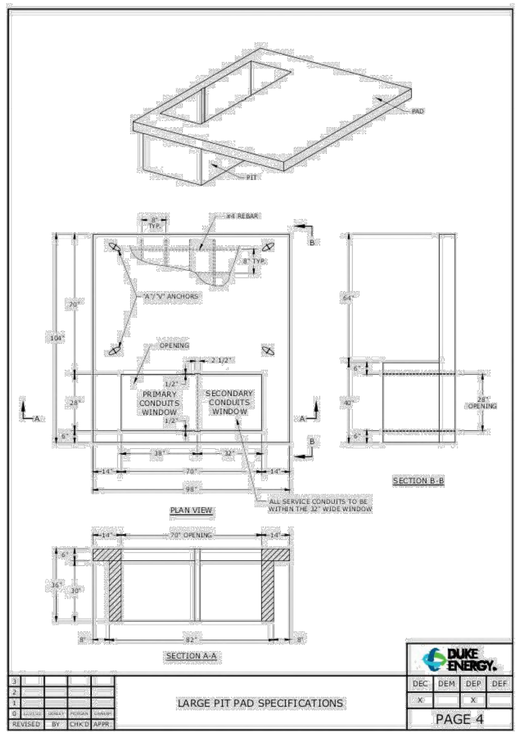


24" CONCRETE CURB & GUTTER
(TYPICAL ON SITE) NTS



TYPICAL PAVING SECTIONS
N.T.S.

NOTE:
FINAL PAVEMENT SECTIONS TO BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

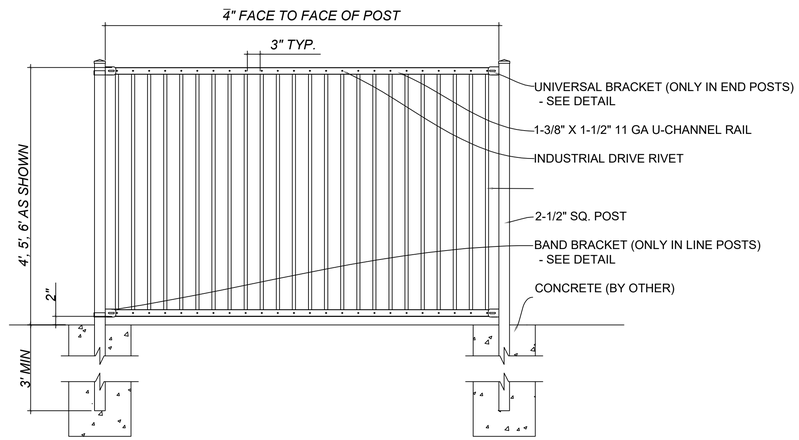


LARGE PIT PAD SPECIFICATIONS

DUKE ENERGY.

DEC.	DEM	DEP	DEF
X		X	

PAGE 4



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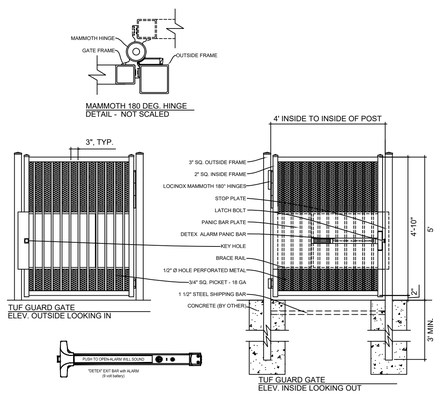
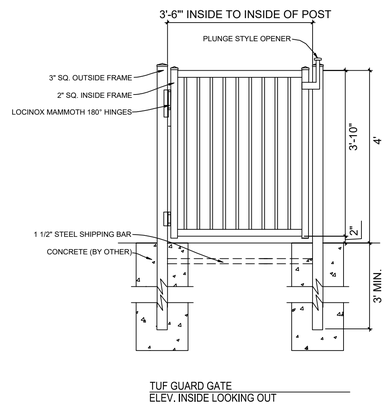
the first name in fence solutions



*IF PERMITTED BY LOCAL AHJ OTHERWISE PANIC DEVICE WITH LEVER HANDLE



1. SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
2. ALL COMPONENTS OF THE PANEL TO BE COATED BLACK.
3. VERIFY POST DEPTH AND FOOTING DIMENSIONS WITH LOCAL CODES AND SITE CONDITIONS.

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NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NITZ
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE
600

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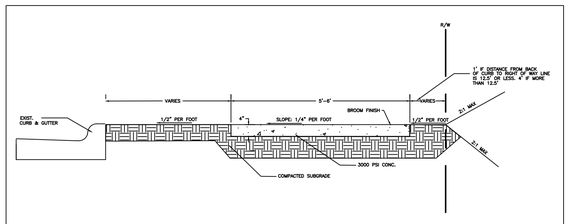


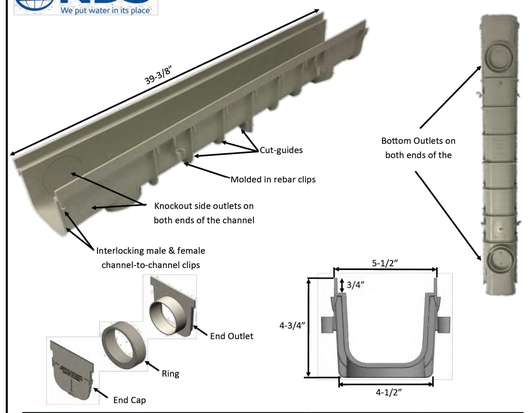
TYPICAL SIDEWALK SECTION DETAIL
NO SCALE

NOTE: CONSTRUCTION TO CONFORM TO CITY OF RALEIGH STANDARD AND SPECIFICATIONS

PROJECT NAME: | FILE # TS_PS_5IN_CHANNEL_KIT-864

NDS
We put water in its place

TECHNICAL SPECIFICATION



PART NUMBER	SIZE	MATERIAL	WEIGHT
864	5-1/2" X 4-3/4" X 39-3/8"	POLYPROPYLENE W/ UV INHIBITORS	3.03LBS

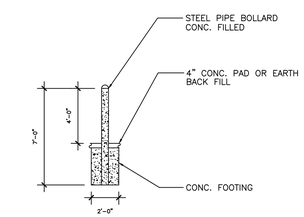
SPECIFICATION:
- 5" WIDE DEEP PROFILE CHANNEL DRAIN WITH MECHANICAL INTERLOCKING JOINTS.
- INTEGRATED KNOCKOUT BOTTOM OUTLETS THAT FIT 3" AND 4" SEWER AND DRAIN FITTINGS
- SIDE OUTLET KNOCKOUTS THAT FIT 3" SEWER AND DRAIN PIPE
- MOLDED REBAR CLIPS TO FIT #4 (1/2") REBAR

KIT INCLUDES:
- CHANNEL #800 (QTY. 1)
- LIGHT GRAY PLASTIC GRATE #814 (QTY. 2)
- END CAP #812 (QTY. 1)
- END OUTLET WITH RING #813 (QTY. 1)
- GRATE SCREWS #829 (QTY. 8)

5" PRO SERIES CHANNEL DRAIN KIT
WITH PLASTIC GRATE—#864

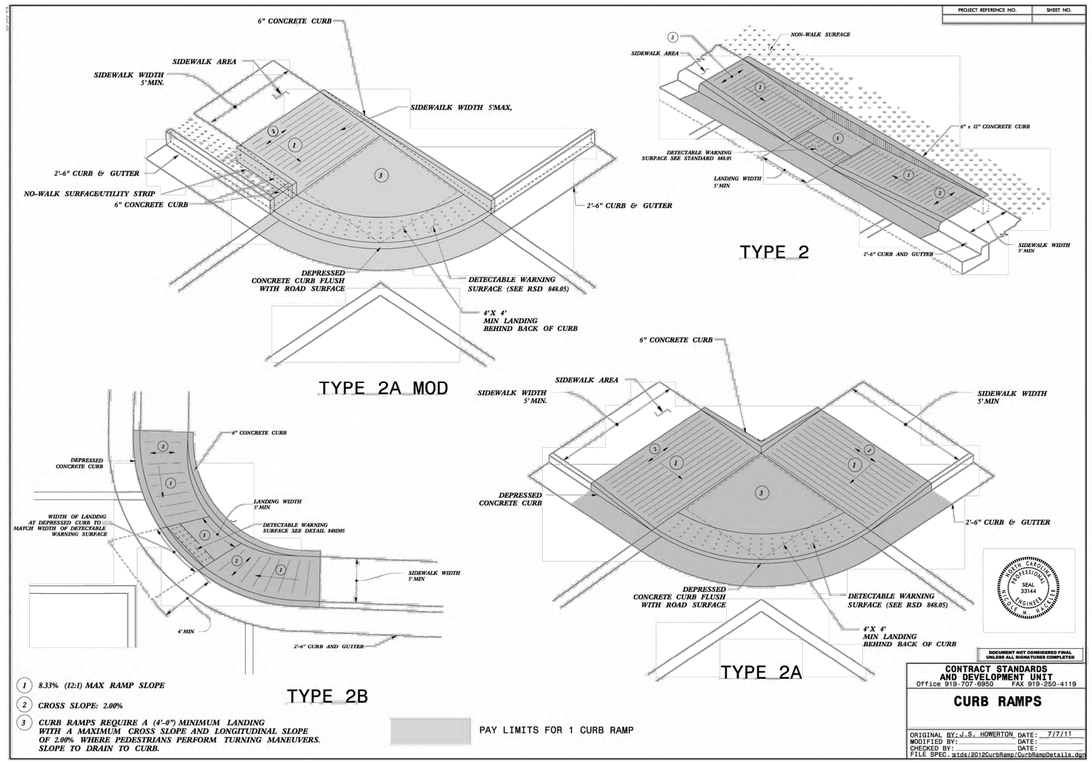
FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT techservice@ndspro.com, DESIGN ASSISTANCE- designworx@ndspro.com
851 N. HARVARD AVE. LINDSAY, CA 93247 WWW.NDSPRO.COM 1-800-726-1994

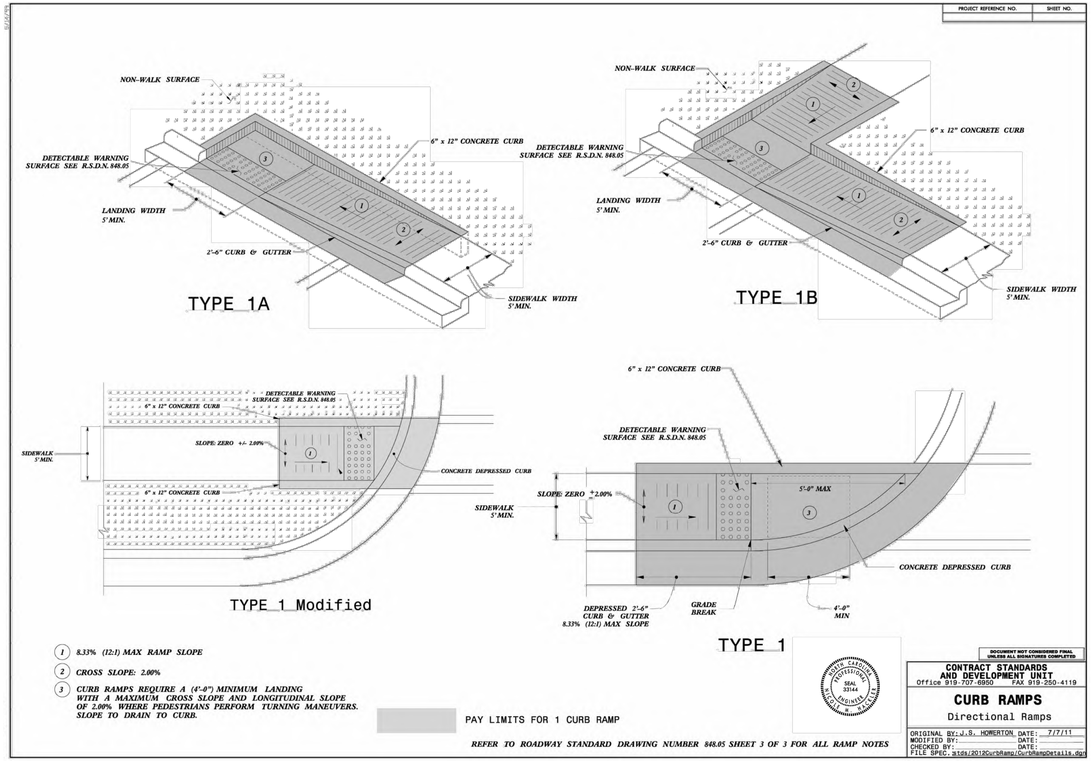
Rev—07/26/2022



6" BOLLARD
SCALE: NTS

NOTES:
1. INSTALL 6" DIA. CONC. FILLED STEEL BOLLARDS 48" HIGH ABOVE GRADE, SET IN 24" DIA. CONC. FILLED CYLINDER 36" DEEP.
2. COAT STEEL PIPE WITH MIN. 2 COATS EPOXY BASED YELLOW REFLECTIVE PAINT TO T.O. CONCRETE FOOTING.





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1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code: SSRCC

Dwg No.
SITE 601

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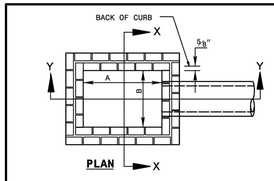
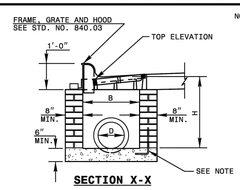
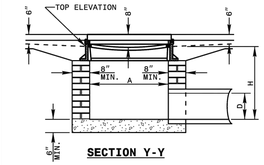
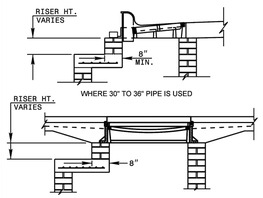
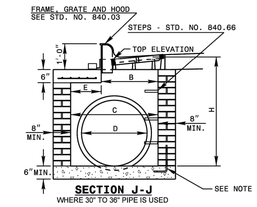


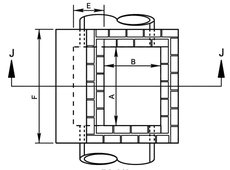


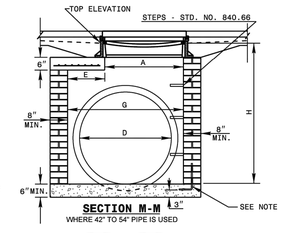
NOTES: MORTAR JOINTS ½" +/- ⅛" THICK.
USE CLASS "B" CONCRETE THROUGHOUT.
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
USE #4 BAR DOWELS AT 12" CENTERS FOR ALL PIPE SIZES.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUANTITES TO BE ADJUSTED ACCORDINGLY.
MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH OF PRECAST BOX IF USED.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

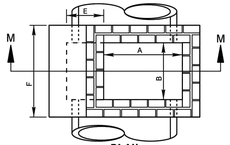








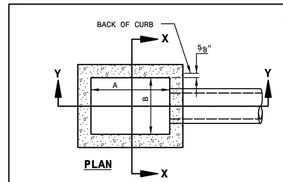


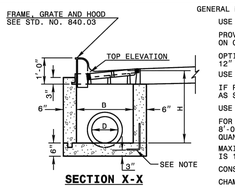


STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-24

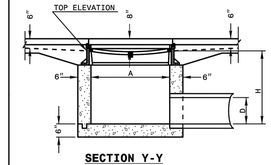
ROADWAY STANDARD DRAWING FOR
BRICK CATCH BASIN
12" THRU 54" PIPE

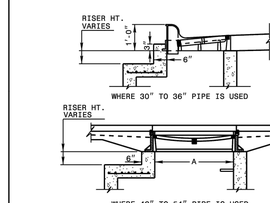
SHEET 1 OF 2
840.01

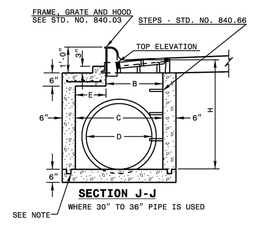


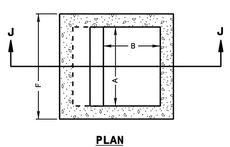


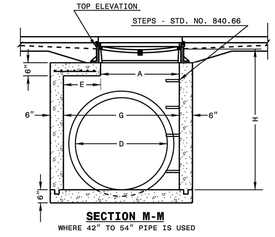
GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 16'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

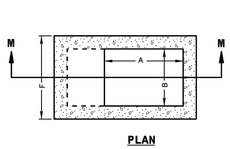












STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-24

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

SHEET 1 OF 2
840.02

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

DIMENSIONS OF BOX AND PIPE						TOP SLAB DIMENSIONS		BARS-U		BARS-V		BARS-W			CU.YDS. CONC. IN BOX		BRICK MASONRY		DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	TOTAL LBS.	TOP SLAB	BOTTOM SLAB	TOTAL CONC.	BRICK MSNRY. IN WALLS	TOTAL BRICK AND CONCRETE	C.M.	R.C.
D	A	B	C	G	H	E	F														
12"	3'-0"	2'-2"	--	--	2'-9"	--	--	--	--	--	--	--	--	--	--	0.281	0.281	0.883	1.164	0.020	0.042
15"	3'-0"	2'-2"			3'-0"											0.281	0.281	0.963	1.244	0.031	0.047
18"	3'-0"	2'-2"			3'-3"											0.281	0.281	1.043	1.324	0.044	0.065
24"	3'-0"	2'-2"			3'-9"											0.281	0.281	1.204	1.485	0.078	0.121
30"	3'-0"	2'-2"	3'-4"		4'-3"	1'-2"	4'-4"	4	1'-6"	3	4'-1"	3	4'-1"	45	0.147	0.374	0.521	1.606	2.217	0.122	0.184
36"	3'-0"	2'-2"	3'-10"		4'-9"	1'-8"	4'-4"	4	2'-0"	4	4'-1"	3	4'-1"	49	0.187	0.415	0.602	1.914	2.516	0.176	0.261
42"	3'-0"	2'-2"		4'-5"	5'-3"	1'-5"	3'-6"	4	1'-9"	3	3'-3"	3	3'-3"	38	0.135	0.373	0.508	2.152	2.660	0.240	0.371
48"	3'-0"	2'-2"		5'-0"	5'-9"	2'-0"	3'-6"	4	2'-6"	4	3'-3"	3	3'-3"	41	0.173	0.410	0.583	2.415	2.998	0.313	0.477
54"	3'-0"	2'-2"		5'-7"	6'-3"	2'-7"	3'-6"	4	3'-0"	6	3'-3"	3	3'-3"	47	0.211	0.448	0.659	2.806	3.465	0.396	0.595

* RISER HAS .321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT

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

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

SHEET 2 OF 2
840.01

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

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

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

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

SHEET 2 OF 2
840.02

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, N.C.

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SCOTT R. NIMMO
1/30/2026

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
1111 Oberlin Road
Raleigh, NC 27605-1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code: SSRCC

Dwg No.
SITE
602

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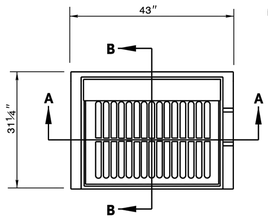
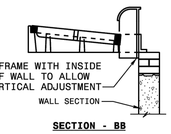


FRAME,GRATE, & HOOD ASS'Y

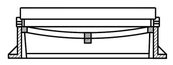
NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.



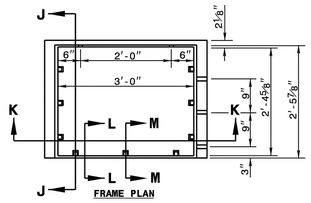
SECTION - BB

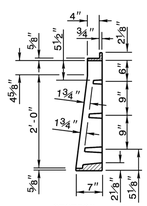
SECTION - LL

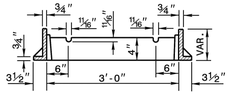
SECTION - MM

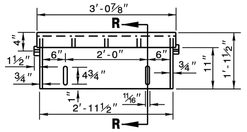


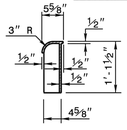
SECTION - AA









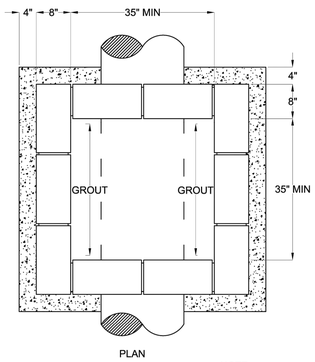


STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

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

SHEET 1 OF 2
840.03



NOTE:
1. EITHER SOLID BLOCK, CONCRETE, OR PRECAST CONCRETE MAY BE USED.
2. FOR 24" R.C.P. AND LARGER--USE PIPE DIA PLUS 12" FOR MINIMUM INSIDE DIMENSION.
3. CAST IN PLACE DESIGNS TO BE SUBMITTED.

YARD INLET W/ GRATE & FRAME

STD. NO. 500.02
SHEET 1 OF 1

DETAIL SHOWING TYPES OF GRATES USE ACCORDING TO WATER FLOW.

TYPE - E

TYPE - F

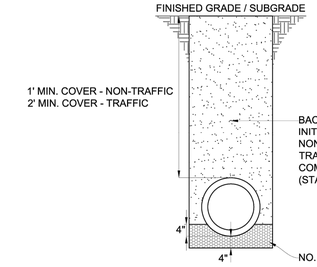
TYPE G

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

1-24

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

SHEET 2 OF 2
840.03



NOTES:

1. EXCAVATE TO 4 INCHES BELOW THE PROPOSED PIPE ELEVATION.
2. PROVIDE 4 INCHES STONE BEDDING AND 4 INCHES STONE BACKFILL.
3. WHERE BELL AND SPIGOT PIPE IS USED, PROVIDE RECESSES TO RECEIVE PIPE BELL.
4. UNDERCUT UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER AND BACKFILL WITH STONE OR OTHER APPROVED MATERIAL.
5. WHERE NECESSARY, TEMPORARILY DIVERT SURFACE WATER TO MAINTAIN A DRY CONDITION IN THE PIPE FOUNDATION. DIRECT THIS TEMPORARY FLOW INTO SUITABLE EROSION CONTROL DEVICES.

STORM DRAIN PIPE BEDDING & BACKFILLING

STD. NO. 500.09
SHEET 1 OF 1

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NIX
1/30/2026

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
1111 Oberlin Road
Raleigh, NC 27605-1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE 603

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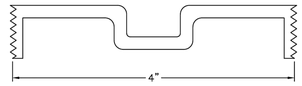
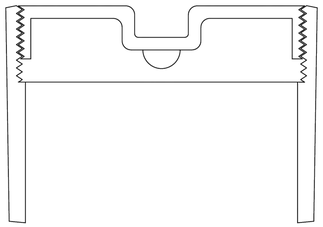


STANDARD 4" BRONZE CLEANOUT PLUG

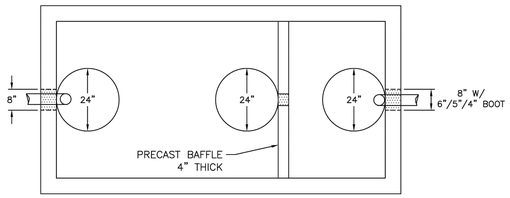


CLEANOUT FERRULE WITH PLUG

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. REINFORCEMENT: H-20 BRIDGE LOADING (TRAFFIC RATED).
2. CONCRETE: 4,000 PSI @ 28 DAYS.
3. EARTHCOVER: 0' TO 5' MAX.
4. HDPE ALLOWED IN LIEU OF CONCRETE. MEET SAME LOADING REQUIREMENTS.

CITY OF RALEIGH
STANDARD DETAIL

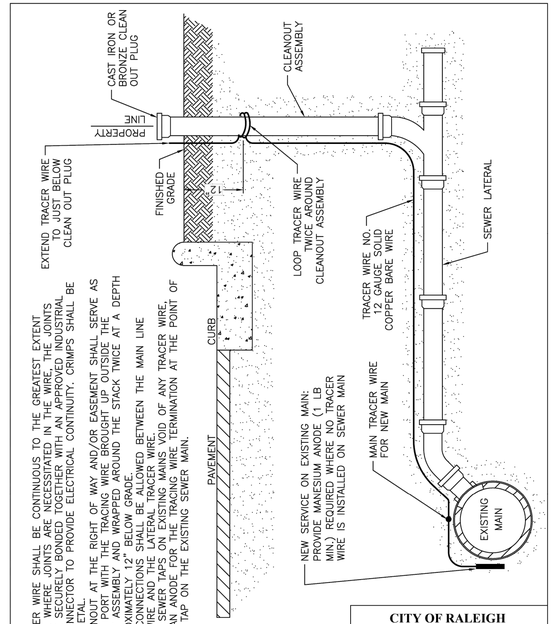
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	1,000 GALLON GREASE INTERCEPTOR	
	S-40	

LOCALLY AVAILABLE SIZES	
INTERCEPTORS CAPACITY (GAL.)	SEPARATORS CAPACITY (GAL.)
300	1,000
550	1,200
750	1,600
1,000	
1,200	
1,500	
2,000	
2,500	
3,000	
4,000	
5,000	
6,000	
8,000	

NOTES:
1. BAFFLE WALLS LOCATED AT A DISTANCE FROM INLET WALL ⅔ TO ¾ OF THE TOTAL LENGTH OF THE INTERCEPTOR OR SEPARATOR AS SHOWN ON DETAIL S-40. BAFFLE WALLS LOCATED AT A DISTANCE APPROXIMATELY OF ½ OF THE TOTAL LENGTH OF THE SEPARATOR AS SHOWN ON DETAIL S-40A.
2. EACH INTERCEPTOR OR SEPARATOR SHALL HAVE INLET AND OUTLET TEES. THE OUTLET TEE SHALL EXTEND 50% INTO THE LIQUID DEPTH. THE INLET TEE SHALL EXTEND 25% INTO THE LIQUID DEPTH. INLET AND OUTLET TEES MUST BE OPEN TO ALLOW THE COLLECTION OF F.O.G. SAMPLE.
3. ACCESS OPENINGS OVER EACH COMPARTMENT WITHIN THE INTERCEPTOR OR SEPARATOR SHALL BE 24 INCHES IN DIAMETER AND CONTAIN PICK HOLES. ALL COVERS SHALL BE CONSTRUCTED OF CAST IRON OR EQUIVALENT TRAFFIC BEARING MATERIAL. MANHOLE COVERS MUST EXTEND TO FINISH GRADE AND BE INSTALLED TO EXCLUDE THE ENTRANCE OF STORMWATER INTO THE INTERCEPTOR OR SEPARATOR.
4. FULL SIZE DUAL SWEEP CLEANOUTS SHALL BE INSTALLED ON THE INLET AND OUTLET SIDES OF THE INTERCEPTOR OR SEPARATOR.
5. INTERCEPTORS AND SEPARATORS MUST BE VENTED IN ACCORDANCE WITH THE NC STATE PLUMBING CODE.
6. CONCRETE: 4,000 PSI @ 28 DAYS.
7. DESIGN: ACI 318 BUILDING CODE
   ASTM C1613-06 FOR GREASE INTERCEPTORS
   ASTM C913-02 FOR WATER AND WASTEWATER STRUCTURES
   ASTM C890-06 FOR MINIMAL STRUCTURAL DESIGN LOADING
8. INTERCEPTORS AND SEPARATORS SHALL BE DESIGNED TO WITHSTAND AN H-20 WHEEL LOAD.
9. INTERCEPTORS OR SEPARATORS MADE OF POLYETHYLENE OR FIBERGLASS SHALL INCLUDE A MINIMUM 12,000 PSI TENSILE STRENGTH, 19,000 PSI FLEXURAL STRENGTH, AND 800,000 PSI FLEXURAL MODULUS.
10. ALL INTERCEPTORS AND SEPARATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

CITY OF RALEIGH
STANDARD DETAIL

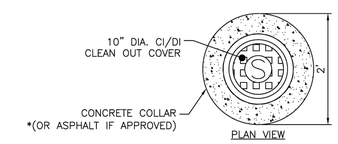
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	DIMENSIONS: GREASE INTERCEPTORS & OIL-WATER SAND SEPARATORS	
	S-41	



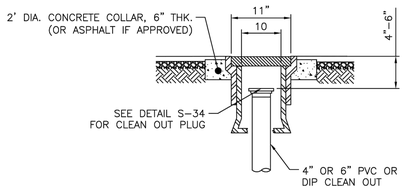
NOTES:
1. THE TRACER WIRE SHALL BE CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. WHERE JOINTS ARE NECESSITATED IN THE WIRE, THE JOINTS SHALL BE SECURELY BONDED TOGETHER WITH AN APPROVED INDUSTRIAL GRADE CONNECTOR TO PROVIDE ELECTRICAL CONTINUITY. CRIMPS SHALL BE SIMILAR METAL.
2. THE CLEANOUT AT THE RIGHT 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. SPLICING OF THE TRACER WIRE 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	



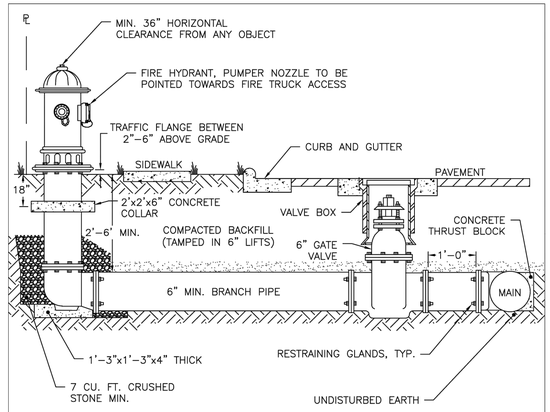
PLAN VIEW



SECTION VIEW

CITY OF RALEIGH
STANDARD DETAIL

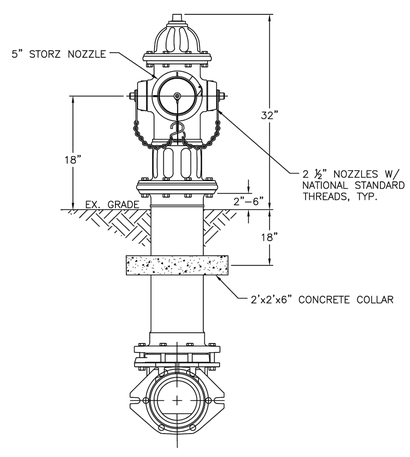
REVISIONS	DATE: 05/24/2024	NOT TO SCALE
	TRAFFIC RATED CLEAN OUT STRUCTURE	
	S-30B	



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

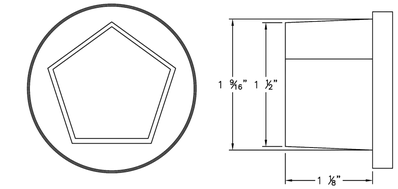
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	STANDARD FIRE HYDRANT INSTALLATION (RESTRAINT GLANDS)	
	W-4	

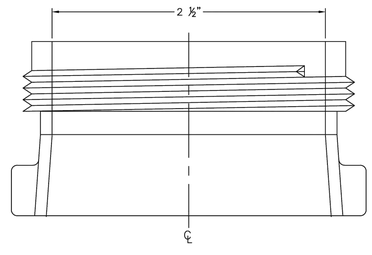


NOTES:
1. ALL PUBLIC FIRE HYDRANTS IN THE CITY OF RALEIGH AND THE MERGER TOWNS OF GARNER, ROLESVILLE, WAKE FOREST, KNIGHTDALE, WENDELL AND ZEBULON SHALL BE PAINTED CHROME YELLOW WITH HIGH REFLECTIVE ALUMINUM SILVER CAPS, BONNETS AND OPERATING NUTS.
2. ALL PRIVATE FIRE HYDRANTS SHALL BE RED.

CITY OF RALEIGH
STANDARD DETAIL

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





2 ½" NATIONAL STANDARD OUTLET THREADS

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	HYDRANT OPERATING NUT AND 2 ½" OUTLET THREADS	
	W-6	

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NITZ
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code: SSRCC

Dwg No.
SITE
604

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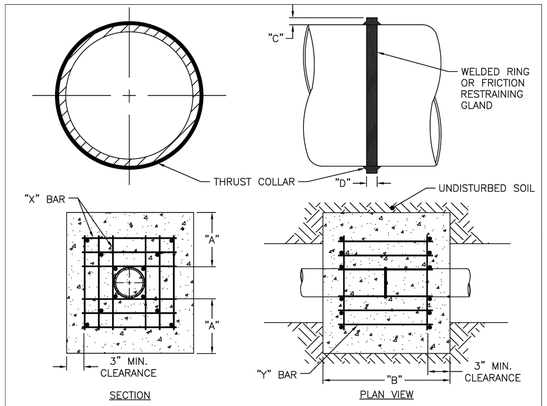


REINFORCING REQUIREMENTS

I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR LENGTH	"Y" BAR WEIGHT	NO. REQUIRED
6"–36"	#5	2'–2"+ O.D. PIPE	1.043 LBS/FT	1'–1"	1.1 LBS. EACH	X–24 Y–12
≥48"	#6	3'–0"+ O.D. PIPE	1.502 LBS/FT	1'–3"	1.9 LBS. EACH	X–24 Y–12

THRUST COLLAR AND THRUST SCHEDULE

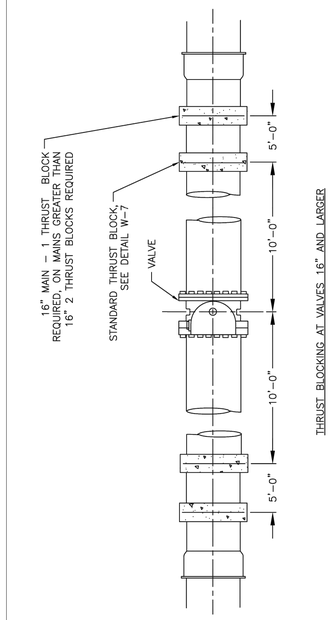
I.D. PIPE	"A"	"B"	"C"	"D"
6"–16"	1'–4"	1'–7"	2"	⅜"
20"–24"	1'–4"	1'–7"	3"	½"
30"–36"	1'–4"	1'–7"	4"	⅝"
≥48"	1'–8"	1'–9"	6"	⅞"

NOTES:
1. SEE DETAIL W–9 FOR THRUST BLOCK LOCATIONS.
2. CONCRETE SHALL BE 3,000 PSI AND TRANSIT MIXED.
3. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
4. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON DETAIL W–3.
5. BACKFILL TAMPED IN 6" LIFTS, SEE DETAIL W–3.
6. THRUST COLLAR MUST BE FACTORY WELDED ON BOTH SIDES ALONG BOTH EDGES OF COLLAR AROUND CIRCUMFERENCE.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	THRUST BLOCKING DESIGN DATA FOR WATER MAINS	

W-7

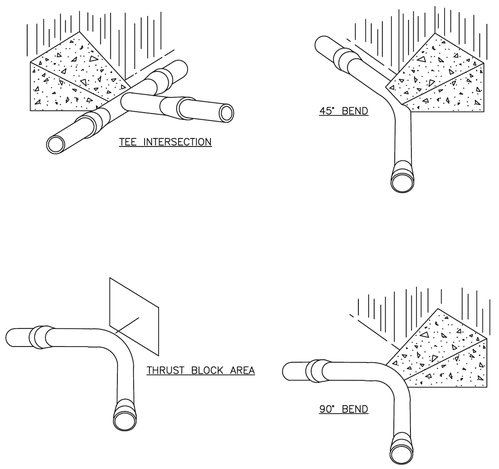


CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	STANDARD THRUST BLOCKING INSTALLATION FOR 16" AND LARGER VALVES AND DEAD END MAINS	

W-8

THRUST BLOCKING



NOTES:
1. CONCRETE SHALL BE 3,000 PSI.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
3. TRENCHES SHALL CONFORM TO DETAIL W–3.
4. SEE DETAIL W–10 & W–11 (THRUST BLOCK TABLES) FOR AREA OF CONCRETE REQUIRED.
5. ALL BENDS AND INTERSECTIONS SHALL HAVE CONCRETE THRUST BLOCKING.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	THRUST BLOCKING VIEWS	

W-9

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: 01/19/2025	NOT TO SCALE
	THRUST BLOCKING DESIGN QUANTITY TABLE	

W-10

REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS BASED ON TEST PRESSURE OF 200 PSI

ALL AREAS GIVEN IN SQUARE FEET

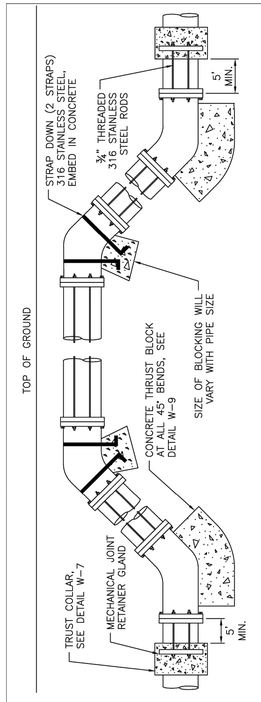
SIZE OF BEND	DEGREE OF BEND	STATIC THRUST IN POUNDS	MODERATELY DRY CLAY 4,000 LBS/FT²	SOFT CLAY 2,000 LBS/FT²	1,600 LBS/FT² GRAVE/ COARSE SAND	8,000 LBS/FT² DRY CLAY (ALWAYS DRY)	SAND, COMPACT FIRM 8,000 LBS/FT²	SAND– CLEAN DRY 4,000 LBS/FT²	SOIL 1,000 LBS/FT² QUICKSAND (VERY POOR)	ROCK– POOR 10,000 LBS/FT²
24"	11 ¼°	17,734	5	9	11	3	3	5	18	2
	22 ½°	35,305	9	18	22	5	5	9	36	4
	45°	69,252	18	35	42	9	9	18	70	7
	90°	127,936	32	64	77	16	16	32	128	113
	PLUG	90,478	23	46	55	12	12	23	91	10
30"	11 ¼°	27,709	7	14	17	4	4	7	2	3
	22 ½°	55,163	14	28	34	7	7	14	56	6
	45°	108,206	28	55	65	14	14	28	109	11
	90°	199,900	50	100	120	25	25	50	200	20
	PLUG	141,372	36	71	85	18	18	36	142	15
36"	11 ¼°	39,901	10	20	24	5	5	10	40	4
	22 ½°	79,439	20	40	48	10	10	20	30	8
	45°	155,816	39	78	94	20	20	39	156	16
	90°	287,855	72	144	172	36	36	72	288	29
	PLUG	203,575	51	102	122	26	26	51	204	21
48"	11 ¼°	70,935	18	36	43	9	9	18	71	8
	22 ½°	141,218	36	71	85	18	18	36	142	15
	45°	277,007	70	139	166	35	35	70	277	28
	90°	511,742	128	256	320	64	64	128	512	52
	PLUG	361,911	91	181	217	46	46	91	362	37

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: 01/19/2025	NOT TO SCALE
	THRUST BLOCKING DESIGN QUANTITY TABLE	

W-11



RESTRAINT REQUIREMENTS

PIPE DIA	RODDING	RJ GLANDS	THRUST COLLAR	THRUST BLOCKING
<12"	X	X	X	X
≥12"	X	X	X	X

"X" DENOTES REQUIRED RESTRAINT.

STRAP REQUIREMENTS

STRAP WIDTH	STRAP THICKNESS
1"	3/16"
1.5"	3/16"
2"	1/4"
2"	1/2"
4"	1/2"

ROD REQUIREMENTS

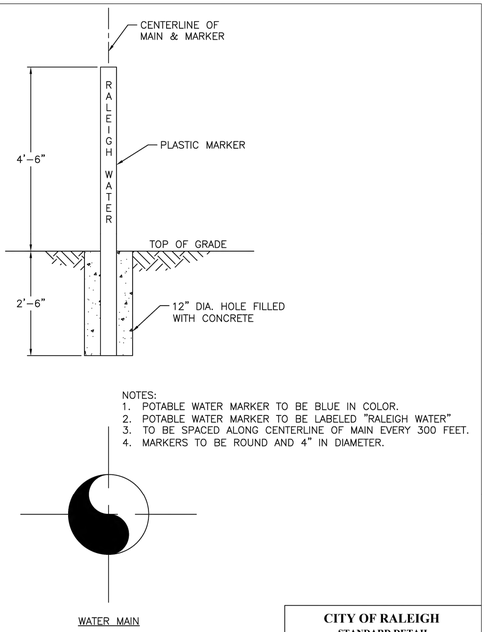
SIZE OF 45° BEND	STATIC TRUST IN POUNDS	NO. OF RODS REQUIRED
6"	4,328	2
8"	7,694	4
12"	17,312	4
16"	30,779	8
24"	69,252	8

NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" 316 STAINLESS STEEL.
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.
6. EXTERNAL RESTRAINT REQUIRED. INTEGRAL BELL RESTRAINT REQUIRES DIRECTOR'S APPROVAL.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	STANDARD VERTICAL BEND	

W-12

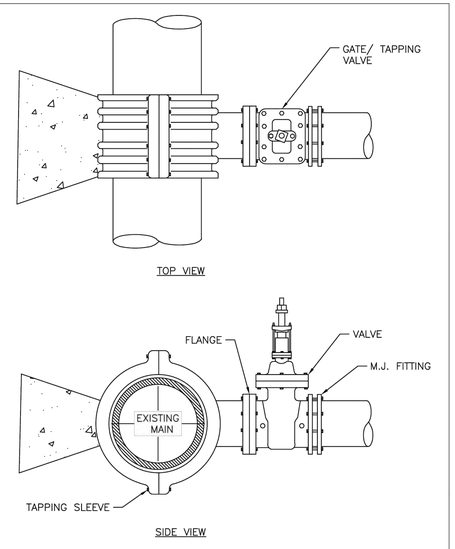


NOTES:
1. POTABLE WATER MARKER TO BE BLUE IN COLOR.
2. POTABLE WATER MARKER TO BE LABELED "RALEIGH WATER"
3. TO BE SPACED ALONG CENTERLINE OF MAIN EVERY 300 FEET.
4. MARKERS TO BE ROUND AND 4" IN DIAMETER.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	MAIN & VALVE MARKER FOR POTABLE WATER IN EASEMENTS	

W-13



NOTES:
1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
2. SEE DETAIL W–10 & W–11 (REACTION BLOCK TABLES) FOR AREA OF CONCRETE REQUIRED.
3. 3,000 PSI SOLID CONCRETE SHALL BE USED AS FOOTING FOR DUCTILE IRON PIPE.
4. FULL CIRCUMFERENCE SLEEVE, STAINLESS STEEL MATERIAL REQUIRED.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	4"–24" STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY	

W-14

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
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NC ENGINEERING LICENSE NO. P–0803

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NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SAMUEL R. NITZ
1/30/2026

SITE DEVELOPMENT PLAN (SDP–26–XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE
605

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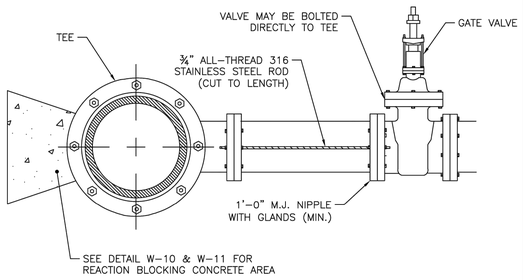


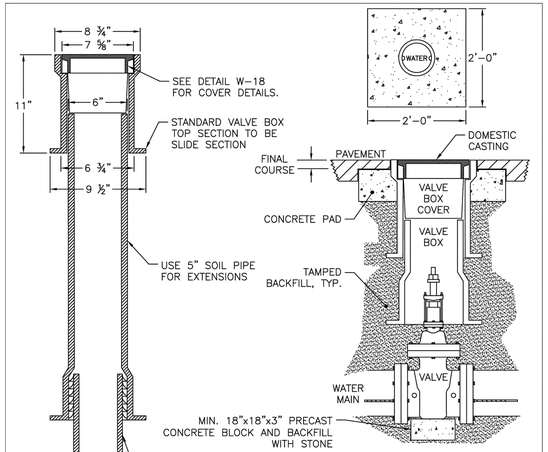
ROD REQUIREMENTS

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

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

CITY OF RALEIGH
STANDARD DETAIL

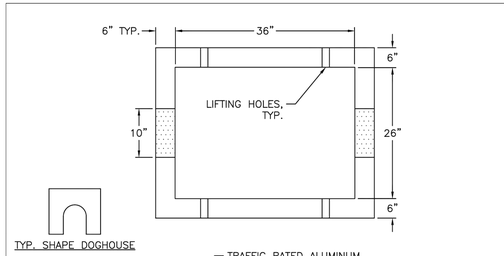
REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	VALVE RESTRAINT AT TEES AND CROSSES FOR LINES (4"–24")	
	W-15	

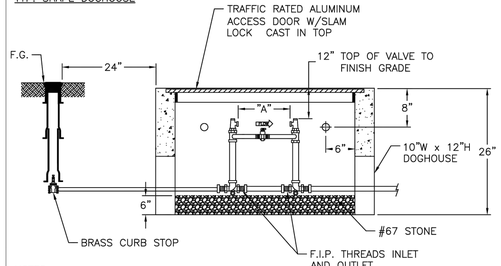


NOTES:
1. VALVE BOX NOT TO CONTACT WATER MAIN
2. ALL TRAFFIC CASTINGS MUST BE CLASS 35 OR GREATER.
3. FOR ALL VALVES OVER 10' DEEP, A VALVE STEM EXTENSION MUST BE USED TO BRING TO A DEPTH OF NO MORE THAN 5', EXTENSION MUST BE A MINIMUM OF 1" SOLID STOCK.
4. TOTAL VALVE BOX WEIGHT: MINIMUM OF 85 LBS.
5. 2'x2'x6" CONCRETE PAD REQUIRED ON ALL VALVES. NO PRECAST CONCRETE DOUGHNUT ALLOWED.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	VALVE BOX INSTALLATION AND EXTENSION	
	W-17	





NOTES:
1. METER AS MANUFACTURED BY SENSUS OR NEPTUNE. METER TO BE PROVIDED BY RALEIGH WATER.
2. BACKFILL TAMPED IN 6" LIFTS.
3. REINFORCEMENT: #4 @ 6" O.C.E.W.
4. CONCRETE: 4,000 PSI @ 28 DAYS.
5. ALL RPZ BACKFLOW PREVENTION DEVICES MUST BE INSTALLED PRIOR TO METER BEING SET.
6. ALL COPPER SETTERS ARE TO HAVE A BALL TYPE SHUT OFF VALVE ON BOTH SIDES OF COPPER SETTER WITH HIGH RISE BYPASS THAT IS MANUFACTURED BY FORD, MUELLER, OR AY McDONALD (NO EXCEPTIONS).
7. HEIGHT ADJUSTMENTS ALLOWED BY PRECAST RISERS OR BRICK AND MORTAR. DRY STACKING OF BLOCK IS NOT ALLOWED.

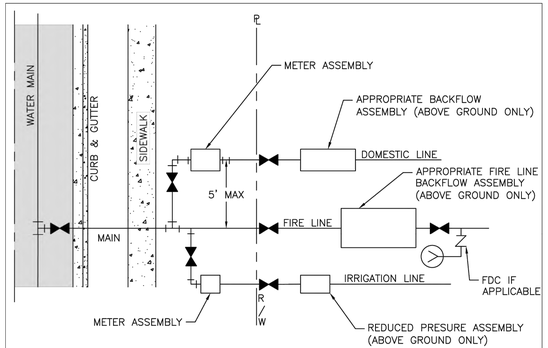
"A"

1 ½" METER	13 ¼"
2" METER	17 ¼"

** TRAFFIC RATED VAULT WALL THICKNESS

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	TYPICAL 1 ½"–2" WATER METER BOX INSTALLATION	
	W-31	



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: 01/19/2025	NOT TO SCALE
	FIRE, DOMESTIC & IRRIGATION OPTIONS SCHEMATIC	
	W-34	

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, N.C.

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 54981 ENGINEER SAMUEL R. NITZ
1/30/2026

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS

THE SITE GROUP, PLLC.
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Raleigh, NC 27605–1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP–26–XX) FOR:

KIDDIE ACADEMY
LOT 4 AT WALLBROOK
551 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code: SSRCC

Dwg No.
SITE
606

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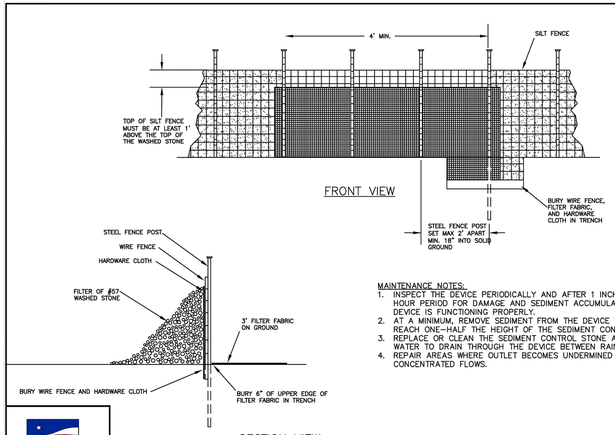
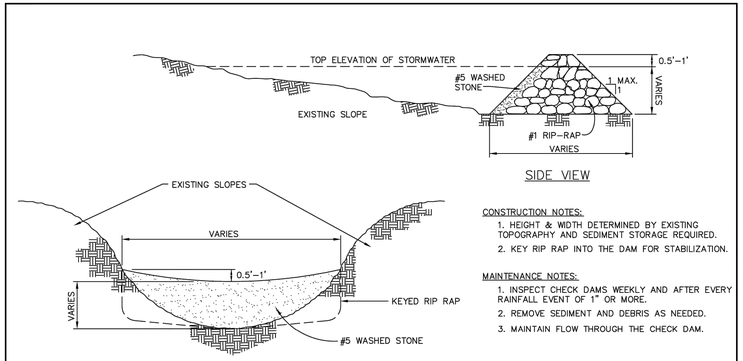


MAINTENANCE NOTES:
1. INSPECT THE DEVICE PERIODICALLY AND AFTER 1 INCH RAINFALL OVER 24 HOUR PERIOD FOR DAMAGE AND SEDIMENT ACCUMULATION TO CONFIRM THE DEVICE IS FUNCTIONING PROPERLY.
2. AT A MINIMUM, REMOVE SEDIMENT FROM THE DEVICE WHEN ACCUMULATIONS REACH ONE-HALF THE HEIGHT OF THE SEDIMENT CONTROL STONE.
3. REPLACE OR CLEAN THE SEDIMENT CONTROL STONE AS NEEDED TO ALLOW WATER TO DRAIN THROUGH THE DEVICE BETWEEN RAINFALL EVENTS.
4. REPAIR AREAS WHERE OUTLET BECOMES UNDERMINED DUE TO CONCENTRATED FLOWS.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 10/15/2025

STANDARD SILT FENCE OUTLET



CONSTRUCTION NOTES:
1. HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
2. KEY RIP RAP INTO THE DAM FOR STABILIZATION.

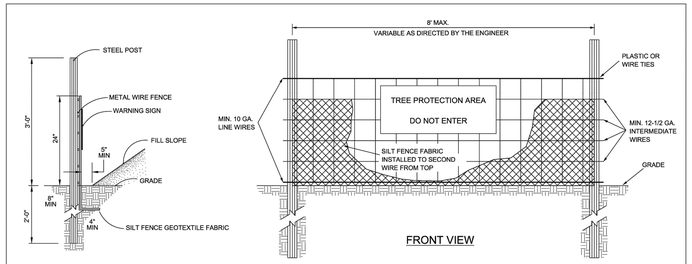
MAINTENANCE NOTES:
1. INSPECT CHECK DAMS WEEKLY AND AFTER EVERY RAINFALL EVENT OF 1" OR MORE.
2. REMOVE SEDIMENT AND DEBRIS AS NEEDED.
3. MAINTAIN FLOW THROUGH THE CHECK DAM.

NOTE: REMOVE SEDIMENT ACCUMULATION FROM BEHIND CHECK DAMS TO PREVENT DAMAGE TO CHANNEL VEGETATION. FLOW SHOULD BE MAINTAINED THROUGH THE DAM.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 10/15/2025

STANDARD CHECK DAM

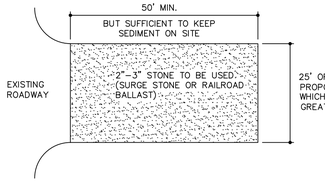


MAINTENANCE: CLEAN OUT AT 50% CAPACITY
LIFE OF FENCING: 6-9 MONTHS
DO NOT DISTURB TREE CONSERVATION AREAS
SILT FENCE SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10' IN HEIGHT.

NOTES:
1. TREE PROTECTION FENCING MUST BE INSTALLED AT A MINIMUM RADIUS OF THE CRITICAL ROOT ZONE (SEE DETAIL TPP-02 FOR EXAMPLES)
2. THE TREE PROTECTION FENCING MUST REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE APPROVED BY URBAN FORESTRY STAFF.
3. APPROVED IMPACT PROTECTION DEVICES MUST BE REMOVED AFTER CONSTRUCTION WHEN APPLICABLE.
4. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER FOR THE REMAINDER
5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTED AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF RALEIGH BASED ON ACTUAL FIELD CONDITIONS.
8. SIGNS ARE TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL WITH LETTERS A MINIMUM OF 2 1/2" HIGH, CLEARLY LEGIBLE AND SPACED AS SHOWN.
9. FLOW SHALL NOT RUN PARALLEL WITH THE FENCE. END OF SILT FENCE NEEDS TO BE TURNED UPHILL.
10. SEE NC STATE DEQ PRACTICE STANDARDS & SPECIFICATIONS SEDIMENT FENCE SET FOR CONDITIONS WHERE APPLIES; PLANNING CONSIDERATIONS & DESIGN CRITERIA. (HOWEVER, FLOW SHALL NOT RUN PARALLEL WITH THE TOE OF THE FENCE.)

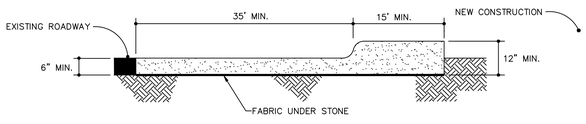
CONTACT INFORMATION:
CITY OF RALEIGH PARKS, RECREATION AND CULTURAL RESOURCES DEPARTMENT
URBAN FORESTER:
TREES@RALEIGHNC.GOV
WWW.RALEIGHNC.GOV

CITY OF RALEIGH STANDARD DETAIL
STANDARD TEMPORARY (SEDIMENT/SILT) PROTECTION FENCE
NOT TO SCALE
DATE ISSUED
REVISIONS
TPP-08



NOTES:
1. INSTALL SILT FENCE OR TREE PROTECTION FENCE TO ENSURE CONSTRUCTION ENTRANCE IS USED BY VEHICLES.
2. IF MUD IS NOT REMOVED FROM TIRES AFTER VEHICLE TRAVELS OVER STONE, THE TIRES OF THE VEHICLE MUST BE WASHED BEFORE ENTERING PUBLIC ROADS.i

MAINTENANCE NOTES:
1. THE GRAVEL CONSTRUCTION ENTRANCE MUST BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO ADJACENT ROADWAYS.
2. REPLACEMENT OF STONE MAY BE NECESSARY TO ENSURE THE GRAVEL ENTRANCE FUNCTIONS PROPERLY.
3. REPLENISHMENT OF STONE MAY BE NECESSARY.
4. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE SHOULD BE COMPLETED.
5. ANY MATERIAL TRACKED ONTO THE ROADWAY SHALL BE CLEANED UP IMMEDIATELY.



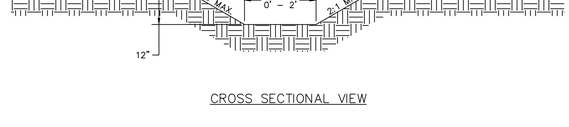
WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD CONSTRUCTION ENTRANCE

NOTES:
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
2. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.

MAINTENANCE NOTES:
1. INSPECT ONCE A WEEK AND AFTER EVERY 1" RAINFALL.
2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
4. CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.
5. AFTER DRAINAGE AREA IS PERMANENTLY STABILIZED, PLACE WASTE MATERIAL IN DITCH TO BLEND WITH NATURAL GROUND AND STABILIZE.

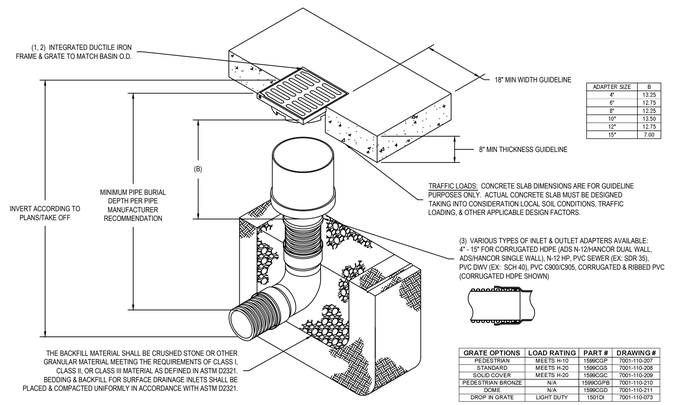


WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 10/15/2025

STANDARD TEMPORARY DIVERSION DITCH

NYLOPLAST 15" INLINE DRAIN: 2715AG _ _ X



ADAPTER SIZE	B
4"	13.75
6"	13.75
8"	12.25
10"	13.50
12"	12.75
15"	7.00

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1599CGP	7001-110-207
STANDARD	MEETS H-20	1596CGS	7001-110-208
SOLID COVER	MEETS H-20	1599CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1599CGPB	7001-110-210
DOME	N/A	1596CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501DI	7001-110-073

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - DIMENSIONS ARE IN INCHES.
6 - SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

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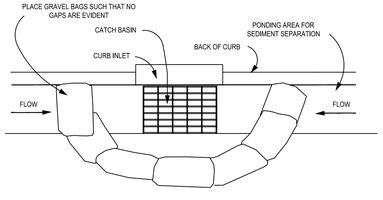
DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-15-16		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

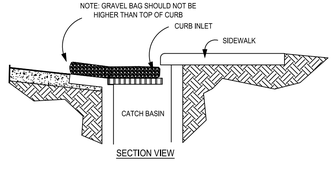
ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
15 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7003-110-026 REV E



NOTES:
1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH ¾ INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
4. WHEN INSTALLING CURB INLET PROTECTION DEVICES, **NEVER** BLOCK THE CURB INLET.



WAKE COUNTY NORTH CAROLINA

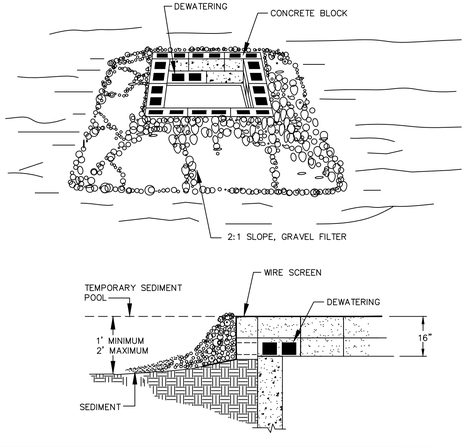
EFFECTIVE: 01/31/08

STANDARD GRAVEL BAG CURB INLET PROTECTION

CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 3/4 TO 1/2 INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

MAINTENANCE: INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.



WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD BLOCK & GRAVEL DROP INLET PROTECTION

THE SITE GROUP, PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO. 353
NORTH CAROLINA
RALEIGH, NC

NC ENGINEERING LICENSE NO. P-0803

NORTH CAROLINA PROFESSIONAL SEAL 34981 ENGINEER SCOTT R. NEWTON
1/30/2026

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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By LLF
Checked By SRN

DATE:
30 JAN 2026

SITE DEVELO. PLAN

SITE DETAILS

Job Code SSRCC

Dwg No.
SITE 607

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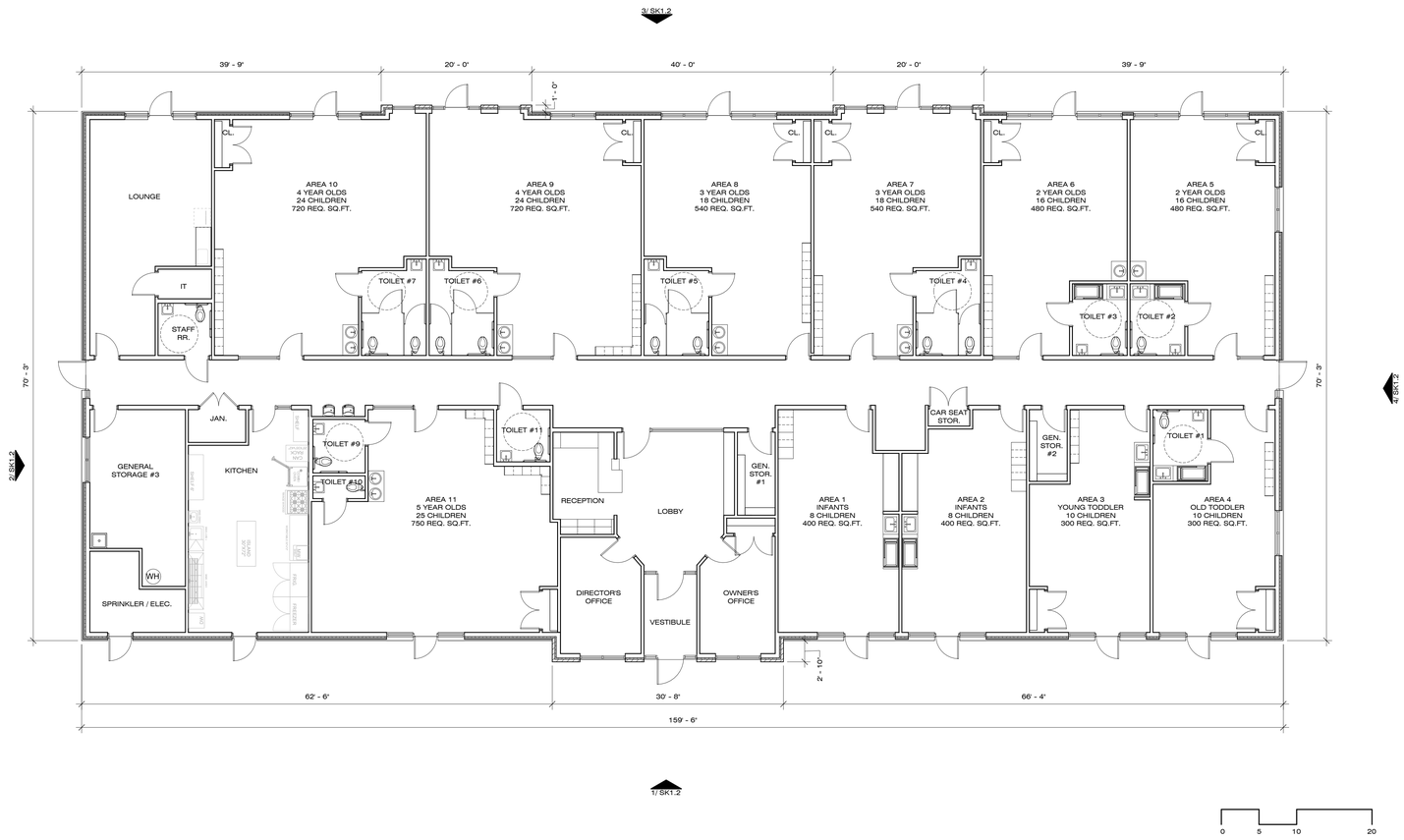

1 FLOOR PLAN

SCALE: 1/8" = 1'-0"

REDLINE

925 Tuckaseegee Rd.
Suite 110
Charlotte, NC 28208

704.377.2990

www.redlinedg.com

SITE PLAN SUBMISSION
NOT FOR CONSTRUCTION

KIDDIE ACADEMY @ WALLBROOK

851 S MAIN ST.
ROLLESVILLE, NC 27571

#	△	DESCRIPTION	DATE
1		SITE PLAN SUBMISSION	01.30.26
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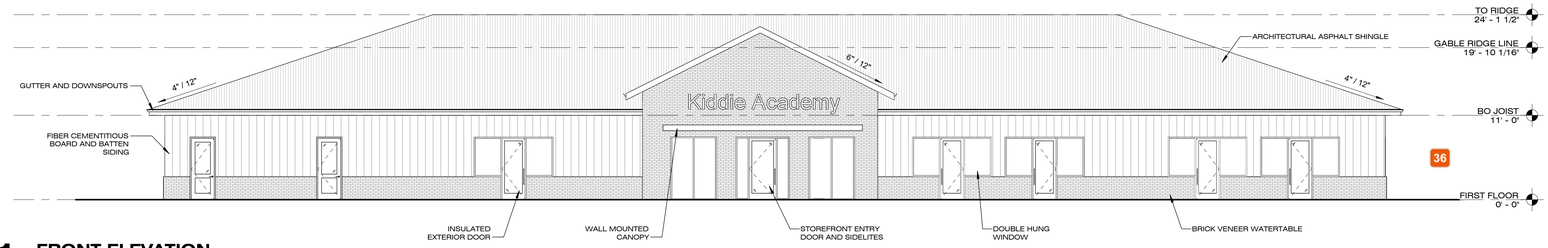
ARCH. PROJECT # RDU 25-167

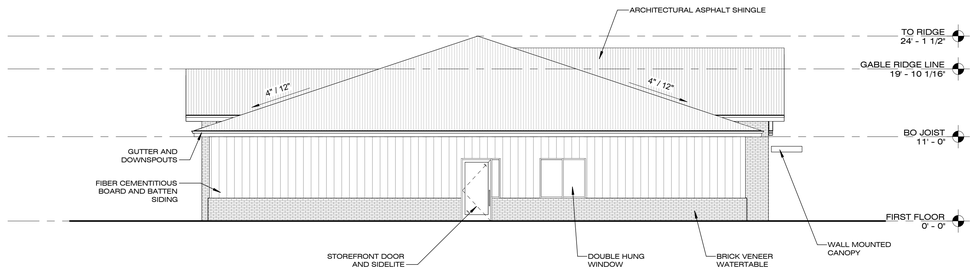
FLOOR PLAN

SCALE: 1/8" = 1'-0"

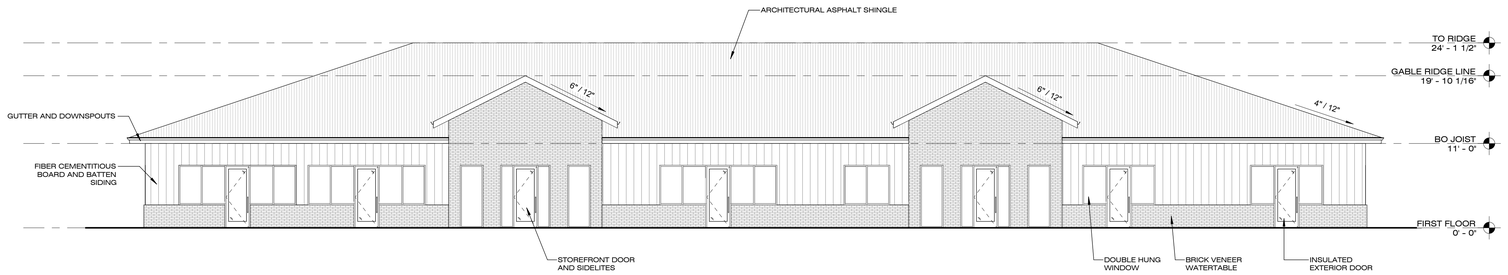
SHEET # **SK1.1**



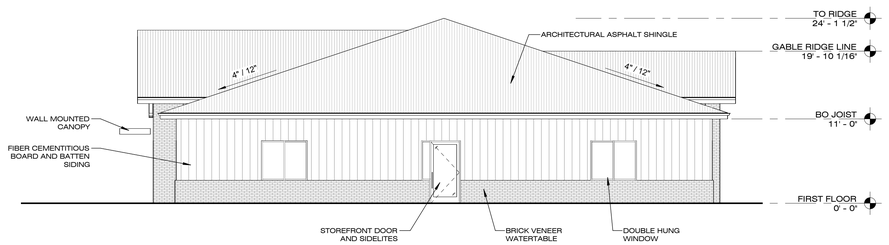
1 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



2 LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



3 RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



4 REAR ELEVATION
SCALE: 1/8" = 1'-0"

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925 Tuckaseegee Rd.
Suite 110
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SITE PLAN SUBMISSION
NOT FOR CONSTRUCTION

KIDDIE ACADEMY @ WALLBROOK

851 S MAIN ST.
ROLLESVILLE, NC 27571

#	△	DESCRIPTION	DATE
1		SITE PLAN SUBMISSION	01.30.26
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ARCH. PROJECT # RDU 25-167

EXTERIOR ELEVATIONS

SCALE: 1/8" = 1'-0"

SHEET # SK1.2