



# Administrative Approval Action

Case File / Name: ASR-0118-2022  
DSLCL - ARROW PRESCHOOL

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

**LOCATION:** This 1.81 acre site, specifically identified as 4109 Old Poole Road, is located south of Poole Road, east of Dowling Road, west of Bus Way, and north of Farm Grove Lane. The property is adjacent to New Bethel Christian Church.

**REQUEST:** The vacant property is zoned CX-3-CU. The plan proposes a 6,000 square foot, 1-story general building to be used as a preschool and day care center with associated parking and infrastructure, to be known as Arrow Preschool.

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

**FINDINGS:** City Administration finds that this request, with the below conditions of approval being met, conforms to the Unified Development Ordinance. This approval is based on a preliminary plan dated August 21, 2023 by Curry Engineering.

## **CONDITIONS OF APPROVAL and NEXT STEPS:**

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

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

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

### **Engineering**

1. Required NCDOT encroachment and/or driveway permits must be approved and copies provided to the City of Raleigh Transportation Department – Mobility Strategy and Infrastructure Division prior to Site Permit review approval.

### **Stormwater**

2. A surety equal to of the cost of clearing, grubbing and reseeding a site, shall be paid to the City (UDO 9.4.4).
3. A nitrogen offset payment must be made to a qualifying mitigation bank (UDO 9.2.2.B).
4. A stormwater control plan with a stormwater operations and maintenance manual and budget shall be approved (UDO 9.2).

☒ **LEGAL DOCUMENTS** - Email to legaldocumentreview@raleighnc.gov. Legal documents must be approved, executed, and recorded prior to or in conjunction with the recorded plat on which the associated easements are shown. Copies of recorded documents must be returned to the City within one business day of recording to avoid withholding of further permit issuance.



# Administrative Approval Action

Case File / Name: ASR-0118-2022  
DSLCL - ARROW PRESCHOOL

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

<input checked="" type="checkbox"/>	Cross Access Agreements Required
<input checked="" type="checkbox"/>	Utility Placement Deed of Easement Required

<input checked="" type="checkbox"/>	Right of Way Deed of Easement Required
-------------------------------------	--

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

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

## Engineering

1. A public infrastructure surety shall be provided to City of Raleigh Transportation – Development Engineering Division (UDO 8.1.3) in the amount of 100% of the improvement cost for the NCDOT portion and 125% of the improvement cost for the City of Raleigh infrastructure.
2. A cross access agreement among the lots identified as PINs 16746521 shall be approved by the Development Services Department for recording in the Wake County Registry, and a copy of the recorded offer of cross access easement shall be returned to the Development Services Department within one day of plat recordation. If a recorded copy of the document is not provided within this time, further recordings and building permit issuance will be withheld.
3. A public street right-of-way deed of easement, in addition to a plat showing the location of the easement, shall be submitted to the Planning and Development Services Department for review, and if acceptable, approved for recordation. Approved plats must be recorded at the Wake County Register of Deeds Office on or before the 14th day following approval by the City. The 14-day expiration date shall be clearly indicated on the plat. By the end of the next business day following recordation of the plat, all required legal instruments (including deeds of easement) shall be recorded, and recorded copies of the plat and all legal instruments required by the City in association with development approval shall be provided to the City. (Reference: UDO 8.1.7.A; 10.2.5.F.4.d)
4. A 5' utility placement easement deed of easement, in addition to a plat showing the location of the easement, shall be submitted to the Planning and Development Services Department for review, and if acceptable, approved for recordation. Approved plats must be recorded at the Wake County Register of Deeds Office on or before the 14th day following approval by the City. The 14-day expiration date shall be clearly indicated on the plat. By the end of the next business day following recordation of the plat, all required legal instruments (including deeds of easement) shall be recorded, and recorded copies of the plat and all legal instruments required by the City in association with development approval shall be provided to the City. (Reference: UDO 8.1.7.A; 10.2.5.F.4.d)

## Public Utilities

5. A Petition for Annexation into the City limits shall be submitted in accordance with City Council policy for extension of utility service to properties currently outside of the City limits. This voluntary annexation in no way obligates the City to extend utility services to the property.



# Administrative Approval Action

Case File / Name: ASR-0118-2022  
DSLC - ARROW PRESCHOOL

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

## Stormwater

6. All stormwater control measures and means of transporting stormwater runoff to and from any nitrogen and stormwater runoff control measures shall be shown on all plats for recording as private drainage easements (UDO 9.2).

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

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

## Public Utilities

1. A Petition for Annexation into the City limits shall be submitted in accordance with City Council policy for extension of utility service to properties currently outside of the City limits. This voluntary annexation in no way obligates the City to extend utility services to the property.

## Stormwater

2. A surety equal to 125% of the cost of the construction of a stormwater device shall be paid to the Engineering Services Department (UDO 9.2.2.D.1.d).

## Urban Forestry

3. A tree impact permit must be obtained for the approved streetscape tree installation in the right of way. This development proposes 18 street trees along Old Poole Rd.
4. A public infrastructure surety for the 18 required street trees shall be provided to City of Raleigh Transportation – Development Engineering Division (UDO 8.1.3) in the amount of 100% of the improvement cost for the NCDOT portion of infrastructure. As these are small maturing trees, submit a survey for 9 street trees, rather than 18.

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

## Stormwater

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

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



# Administrative Approval Action

Case File / Name: ASR-0118-2022  
DSLC - ARROW PRESCHOOL

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

permits may be issued. To avoid allowing this plan approval to expire the following must take place by the following dates:

**3-Year Expiration Date:** October 11, 2026

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

**4-Year Completion Date:**

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

I hereby certify this administrative decision.

Signed: *Daniel L. Stegall* Date: 10/11/2023  
Development Services Dir/Designee  
Staff Coordinator: Jessica Gladwin




A map showing the site location. A north arrow is in the top left. I-495 runs diagonally from the top left to the middle right. E New Hope Rd runs diagonally from the middle right to the bottom right. Pooler Rd runs horizontally across the middle. Old Pooler Rd runs horizontally below Pooler Rd. A shaded area labeled 'SITE' is located between Pooler Rd and Old Pooler Rd, west of E New Hope Rd.

**VICINITY MAP**  
SCALE: NOT TO SCALE

# DRAWING INDEX

C-00	COVER SHEET
C-01	CIVIL NOTES
C-02	EXISTING CONDITIONS AND DEMOLITION PLAN
C-03	SITE PLAN
C-04	UTILITY PLAN
C-05	GRADING PLAN
C-06	LIGHTING PLAN
C-07	STORMWATER POA PLAN - EXISTING
C-08	STORMWATER POA PLAN - PROPOSED
D-01	SITE DETAILS
D-02	SCM DETAILS
S-01	ORIGINAL SEALED SURVEY
L-01	LANDSCAPE PLAN
L-02	LANDSCAPE DETAILS
A1.0	ARCHITECTURAL ELEVATIONS

<b>GOVERNING AGENCIES:</b>	<b>UTILITY AGENCIES:</b>	<b>PHONE</b>
<b>PLANNING/ZONE:</b>	<b>WATER / SEWER</b>	<b>ATTN:</b>
<b>CITY OF RALEIGH</b>	<b>CITY OF RALEIGH PUBLIC UTILITIES</b>	<b>1313 GLENWOOD AVE</b>
<b>1000 E. RALEIGH PLAZA SUITE 304</b>	<b>1000 E. RALEIGH PLAZA</b>	<b>RALEIGH NC 27612</b>
<b>RALEIGH NC 27601</b>	<b>RALEIGH NC 27601</b>	<b>1700-769-0000</b>
<b>919-996-2471</b>	<b>919-996-2404</b>	<b>CONTACT: WANDA HARRIS</b>
<b>919-996-2471</b>	<b>CONTACT: KATHY TEW</b>	<b>EMAIL: wh114@cityofnc.org</b>
<b>SEWER/STORMWATER</b>	<b>CONTACT: JIMMIE GUNN</b>	
<b>1000 E. RALEIGH PLAZA</b>	<b>NATURAL GAS</b>	<b>CABLE</b>
<b>1000 E. RALEIGH PLAZA</b>	<b>1000 E. RALEIGH PLAZA SCANA</b>	<b>TIME WARNER CABLE</b>
<b>919-996-3519</b>	<b>1351 SPRING FORTER RD</b>	<b>101 INNOVATION AVE</b>
<b>CONTACT: BEN BROWN</b>	<b>RALEIGH NC 27601</b>	<b>MORRISVILLE NC 27560</b>
<b>EMAIL: ben.brown@cityofraleigh.gov</b>	<b>919-501-7665</b>	<b>919-582-4414</b>
	<b>919-501-7665</b>	<b>CONTACT: JEFF JANTZER</b>
<b>SEMINATION &amp; EROSION CONTROL</b>	<b>CONTACT: GREG SCHOLL</b>	<b>EMAIL: jeff.jantzer@tsccable.com</b>
<b>CITY OF RALEIGH</b>	<b>ELECTRIC</b>	
<b>1000 E. RALEIGH PLAZA</b>	<b>PROGRESS ENERGY BUSINESS</b>	
<b>919-996-3519</b>	<b>9021 FAYETTEVILLE RD</b>	
<b>CONTACT: BEN BROWN</b>	<b>RALEIGH NC 27603</b>	
<b>EMAIL: ben.brown@cityofraleigh.gov</b>	<b>CONTACT: JEFF JANTZER</b>	



## Administrative Site Plan Application

Planning and Development Customer Service Center • 100 Exchange Place, Suite 200 • Hays, NJ 07841 • Tel: 973.939.1000

---

This form is required when submitting site plan applications to the Unified Land Development Ordinance (ULDO) Section 10-2.2. Please refer to the appropriate building plan and reference the plan identifier document when submitting.

**Office Use Only:** Case # \_\_\_\_\_ Planner priority \_\_\_\_\_

Please review ULDO Section 10.2.2 to determine the site plan tier. If the site plan tier is required a Site Plan Tier Verification form can be submitted online at the [Planning and Development Page](#). (Note: There is no fee for this verification service)

Site Plan Tier	Building Type	Tier	Site Plan Transaction History
<input type="checkbox"/> Detached	<input type="checkbox"/> Cottage Court	Subdivision case # _____	Subdivision case # SCDFE 0179-2002-_____
<input type="checkbox"/> Attached	<input type="checkbox"/> General use	Certificate of Appropriateness # _____	Certificate of Appropriateness # _____
<input type="checkbox"/> Assembled	<input type="checkbox"/> Mixed use	Special Use Permit # _____	Special Use Permit # _____
<input type="checkbox"/> Overlaid	<input type="checkbox"/> Zoning Case # _____	Zoning Case # _____	Zoning Case # _____
<input type="checkbox"/> Tiny houses	<input type="checkbox"/> Other	Design Alterance # _____	Design Alterance # _____

**GENERAL INFORMATION**

Development name: \_\_\_\_\_ Owner: \_\_\_\_\_  
 Address: City street \_\_\_\_\_  
 Property address(es): \_\_\_\_\_  
 4105 Old Trade Road  
 Site P.I.N. #: 7212 74.8194

Please describe the scope of work, include any appropriate, existing, and/or site (ULDO 6.1.4):  
 Proposed 6,000 sq foot commercial parking with utility infrastructure

---

**Current Property Address:** Quirtz Lane \_\_\_\_\_ Title: Owner  
 Address: 4400 Old Trade Road, Raleigh, NC 27614  
 Home #: 884-222-0277 Email: [quirtzlane@currentproperty.com](mailto:quirtzlane@currentproperty.com)

**Applicant Name:** (if different from owner: Bill "who can sign" in parentheses) \_\_\_\_\_  
 ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_  
 ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_  
 ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

Company: \_\_\_\_\_ Address: 4400 Old Trade Road, Raleigh, NC 27610

Page 3 of 3

www.ralphnj.com

2/2/2016 11:51 AM

707E: please attach signed agreement or contract, lease, or statement when submitting this form. <b>Developer Contact:</b> <u>Quartus Planning</u>		Email: <u>quartus@quartusprospect.com</u>	
Company: <u>Active Preschool</u>		Title: <u>Owner</u>	
Address: <u>4002 Old Poide Road, Raleigh, NC 27617</u>		Email: <u>quartus@quartusprospect.com</u>	
Phone: <u>919-824-2227</u>		Address: <u>4002 Old Poide Road, Raleigh, NC 27617</u>	
Applicant Name: <u>Quartus Planning</u>		Email: <u>quartus@quartusprospect.com</u>	
Company: <u>Active Preschool</u>		Address: <u>4002 Old Poide Road, Raleigh, NC 27617</u>	
Phone: <u>919-824-2227</u>		Email: <u>quartus@quartusprospect.com</u>	

DEVELOPMENT TYPE + SITE DATA TABLE		BUILDING DATA	
<b>SITE DATA</b> Zoning district(s) please provide the average width of each lot: C-100 1.97' Is parking space projected 1:2 Max parking (permitted) 1:2. No maximum Estimated parking: 10A Existing use: UDDO 6.1.4 Vacant Proposed use: UDDO 6.1.4 Day Care Center	Existing gross area (not to be developed): 0 Existing gross floor area to be developed: 0 New gross floor area: 6,000 Total gross (to be removed and new): 6,000 Proposed # of buildings: 1 Proposed # of stories for each: 1 Proposed # of basement levels: UDDO 15.7.6.4.0		
<b>STORMWATER INFORMATION</b> Impervious Area on Parcel(s): Existing: <u>1.485</u> Stormwater runoff on: <u>29.420</u> Estimated: <u>1.485</u>	Impervious Area for Compliance (includes ROW): Existing: <u>1.485</u> Proposed: <u>1.485</u> Project total: <u>29.420</u>		
<b>RESIDENTIAL OVERSIGHTING</b> Total of all existing units: of all buildings: _____ of _____ of all units: _____ of _____ Is a proposed unit a single story? _____ Is a frequent travel development? _____		Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	

[illegible]

## ASR APPLICATION

**SOLID WASTE NOTES:**

1. SOLID WASTE WILL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE SOLID WASTE DESIGN MANUAL, AND PER THE CITY OF RALEIGH CODE, A COPY OF DESIGN MANUAL CAN BE FOUND: <http://www.raleighnc.gov/content/SolidWasteDocuments/SolidWasteServicesDesignManual.pdf>
2. SOLID WASTE AND RECYCLING SERVICE SHALL BE PROVIDED BY A PRIVATE GARBAGE COLLECTION SERVICE.

**ZONING CONDITIONS (Z-10-16):**  
CONDITIONS DATED: OCTOBER 18, 2016

THE FOLLOWING USES SHALL BE PROHIBITED ON THE PROPERTY TO BE REZONED: BAR, NIGHT CLUB, TAVERN, LOUNGE, ADULT ESTABLISHMENT

### ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water, sewer and/or reuse, as approved in these plans, is responsible for contact the Public Works Department at (319) 396-2409 and the Public Utilities Department at (319) 396-4540 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 **rehabilitation** 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 **Permit** Plans, the **Jobable**, 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**.

**BLOCK PERIMETER NOTES:**  
BLOCK PERIMETER REQUIREMENTS DO NOT APPLY TO THE SUBJECT  
PROPERTY SINCE THE PARCEL IS LESS THAN 5 AC IN SIZE. REF. CO  
UDO 8332A2b

**ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH  
CITY OF RALEIGH STANDARDS & SPECIFICATIONS**

**Arrow Preschool**  
4400 Old Poole Rd.  
Raleigh, NC 27614  
984.222.0277  
Contact: Quintala Parham

**Design Development Architects**  
800 Salem Woods Drive  
Raleigh, NC 27615  
919.848.4474 (o)  
Contact: Tom Wells, AIA

**Cawthorne, Moss and Panciera, P.C.**  
P.O. Box 1253  
Wake Forest N.C., 27588  
919.556.3148  
Contact: Michael Moss, PLS

**The Curry Engineering Group, PLLC**  
NC License # P-0799  
205 S. Fuquay Ave  
Fuquay-Varina, NC 27526  
919.552.0849 (o)  
919.880.9857 (m)  
Contact: Don Curry, PE  
don@curryeng.com

**Southwell Design, PLLC**  
P.O. Box 37178  
Raleigh, NC 27627  
919.272.6729 (v)  
Contact: Adam Southwell, PLA, ASLA  
adam@southwelldesign.com

NOT FOR CONSTRUCTION

ARROW PRE-SCHOOL - RALEIGH, NC  
COVER SHEET

T (619) 532-0849  
F (619) 532-2043  
205 S. Piquay Avenue  
Piquay-Varna, NC 27526

**Curry**  
ENGINEERING  
C-00

### GENERAL CONSTRUCTION NOTES:

1. TOPOGRAPHICAL DATA PERFORMED BY CANTHORNE, MOSS AND PANDELA, P.C. SITE BENCHMARK IS AVAILABLE FROM SURVEYOR. CONTOURS SHOWN HEREON ARE FROM AN ACTUAL FIELD SURVEY. BOUNDARY INFORMATION SUPPLIED BY OWNER AND SHOWN FOR REFERENCE ONLY. CONSULT PLS FOR ACTUAL BOUNDARY DATA.
2. ALL WORK, CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS, LATEST EDITION.
3. ALL WORK, CONSTRUCTION AND MATERIALS WITHIN NCDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE 2018 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
4. ALL RIGHT OF WAY SHALL BE PUBLIC.
5. THIS SITE IS LOCATED IN A FLOOD HAZARD ZONE X PER FEMA MAP 170217200K DATED 02/19/2022.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL, IN OR ADJACENT TO NCDOT RIGHT-OF-WAY. TRAFFIC CONTROL SHALL BE MAINTAINED AT ALL TIMES WITH PROPER SIGNAGE, SIGNALS, LIGHTING, FLAGMEN, ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
7. COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION. THIS INCLUDES APPROVED CONSTRUCTION PLANS, APPROVED EROSION CONTROL PLANS, ENCROACHMENT AGREEMENTS, DRIVEWAY PERMITS, WATERSEWER PERMITS, ETC.
8. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CONTACT THE NC ONE CALL CENTER AT LEAST 48 HOURS PRIOR TO DIGGING @ 1.800.633.4348. UNDERGROUND LINES SHOWN HEREON ARE APPROXIMATE OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. THE SURVEYOR DOES NOT GUARANTEE THAT ANY UNDERGROUND STRUCTURES SUCH AS UTILITIES, TANKS AND PIPES ARE LOCATED HEREON.
9. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE EXCAVATING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO S&D FACILITIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY TOWN OR NCDOT DAMAGED PROPERTY. THE CONTRACTOR SHALL REPAIR THE DAMAGED PROPERTY TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE AGENCY HOLDING JURISDICTION AT NO COST TO THE OWNER.
11. ANY DAMAGE DUE TO PRIVATE PROPERTY OWNERS SIGNS, MAILBOX, DRIVEWAY CULVERTS, OR OTHER PROPERTY SHALL BE RESTORED TO ORIGINAL CONDITION.
12. CONTRACTOR IS RESPONSIBLE FOR FENCING AND SECURITY OF HIS LAYDOWN AND STORAGE AREA.
13. CONTRACTOR SHALL KEEP ALL ROADS FREE OF DIRT AND DEBRIS AT ALL TIMES.
14. CONTRACTOR SHALL PROTECT EXISTING PAVEMENTS AND UTILITIES FROM HEAVY EARTH MOVING EQUIPMENT. PROVIDE TRAFFIC CONTROL AND ADEQUATE PROTECTION METHODS AT ALL EQUIPMENT CROSSINGS.
15. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
16. ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ALL STICKS, ROCKS, AND CLUMPS OF MUD. ALL ROCKS GREATER THAN 3" DURING EXCAVATION SHALL BE REMOVED.
17. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN AN APPROVED, LEGAL, DISPOSAL SITE.
18. CONCRETE SIDEWALKS THAT ARE TO BE REMOVED SHALL BE CUT BACK TO NEAREST EXPANSION OR CONTROL JOINT AND REPLACED WITH 4-INCH CONCRETE SIDEWALK FINISHED TO MATCH EXISTING SIDEWALKS.
19. CONTRACTOR TO COORDINATE WITH CITY OF RALEIGH FOR TEMPORARY WATER NEEDED DURING CONSTRUCTION. IF PERMITTED TO CONNECT TO EXISTING FIRE HYDRANT A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER WILL BE REQUIRED.
20. THE TRANSITION OF PROPOSED ROADWAY TO EXISTING ROADWAY SHALL BE DONE WITH A MINIMUM 6:1 TRANSITION WHERE THE EXISTING PAVEMENT IS MILLED TO A MINIMUM DEPTH OF 4-12" AND OVERLAP.
21. ALL PAVEMENT SAW CUTS SHALL BE NEAT, STRAIGHT AND FULL DEPTH.
22. ALL RIP-RAP IS TO BE INSTALLED WITH NON-WOVEN FILTER FABRIC BENEATH (MIRAF 140N OR APPROVED EQUAL).
23. ALL EXCESS TOPSOIL AND UNCLASSIFIED EXCAVATION IS TO BE HAULED OFF-SITE UNLESS OTHERWISE DIRECTED BY THE OWNER TO AN APPROVED NCDOT LOCATION.
24. ALL SITE CONSTRUCTION MUST BE INSPECTED BY THE GEOTECHNICAL ENGINEER AT THE FOLLOWING STAGES:
  - A. COMPLETION OF GRADING SUBGRADE PRIOR TO PLACING STONE BASE.
  - B. COMPLETION OF STONE PLACEMENT PRIOR TO PAVING.
  - C. FINAL INSPECTION WHEN ALL WORK IS COMPLETE.

### SIGNAGE NOTES:

1. ALL SIGNS SHALL BE I.A.W. THE LATEST EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARDS & SPECIFICATIONS.
2. ALL SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS WITH HIGH INTENSITY SHEETING. COLORS SHALL BE RETROREFLECTIVE.
3. STOP & STREET SIGNS SHALL BE MOUNTED ON A 3-1/2" DIAMETER BLACK POWDER COATED ALUMINUM POST WITH DECORATIVE CAP AND BRACKET.
4. ALL OTHER SIGNS SHALL BE MOUNTED ON A 3-1/2" U-CORNER GALVANIZED STEEL (12 GAUGE) MOUNTING POST WITH MINIMUM CLEARANCE OF 8'-0". SIGNS SHALL BE BURIED MINIMUM 2 FEET IN GROUND WITH A BREAKAWAY Joints.
5. MOUNTING HARDWARE FOR SIGNS SHALL BE GALVANIZED STEEL.
6. ALL SIGNS SHALL BE DESIGNATED AS FOLLOWS PER MUTCD STANDARDS.

### CITY OF RALEIGH TRANSPORTATION NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH AND/OR NCDOT STANDARDS.
2. THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER AND WITH A MINIMUM AMOUNT OF INCONVENIENCE TO TRAFFIC.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL ADHERE TO THE PROVISIONS OF THE MUTCD (MOST CURRENT EDITION).
4. PRIOR TO START OF WORK, A PRE-CONSTRUCTION MEETING MUST BE SET UP WITH THE CONTRACTOR AND CITY OF RALEIGH TRANSPORTATION FIELD SERVICES STAFF. CONTACT ENGINEERING INSPECTIONS AT 919-496-2490 TO SET UP THE MEETING.
5. THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY OBSTRUCTION PERMIT FOR ANY WORK WHICH REQUIRES THE TEMPORARY CLOSURE OF A STREET, TRAVEL LANE, PARKING SPACE OR SIDEWALK FOR RIGHT-OF-WAY SERVICES AT LEAST 48 HOURS IN ADVANCE.
6. ANY TEMPORARY STREET CLOSURE MUST BE SUBMITTED A MINIMUM OF 2 WEEKS PRIOR TO THE START OF WORK. SEE "RIGHT-OF-WAY CLOSURES" ON WWW.RALEIGHNC.GOV. COMPLETE AND SEND THE RIGHT-OF-WAY OBSTRUCTION PERMIT TO RIGHTOFWAYSERVICES@RALEIGHNC.GOV.
7. ANY CONTRACTOR OR PROJECT MANAGER THAT IS WORKING ON A CITY PROJECT SHALL SUBMIT A NOTIFICATION TO THE RAY OBSTRUCTION APPLICATION FOR EMERGENCY MAINTENANCE WORK PRIOR TO THE START OF WORK.
8. PRIOR TO CONSTRUCTION BEGINNING, ALL SIGNAGE AND TRAFFIC CONTROL SHALL BE IN PLACE.
9. THE CONTRACTOR SHALL REPAIR ALL DAMAGED INFRASTRUCTURE IN THE RIGHT-OF-WAY AND RESTORE IT TO PREVIOUS OR BETTER CONDITION.
10. THE CONTRACTOR SHALL REPAIR ANY DAMAGES TO ADJACENT PROPERTIES AND RESTORE IT TO PREVIOUS OR BETTER CONDITION.
11. ALL SIDEWALKS MUST BE ACCESSIBLE TO PERSONS WHO ARE PHYSICALLY IMPAIRED AND PEOPLE WITH MOBILITY DISABILITIES. PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROVAGI, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

### GENERAL ABBREVIATIONS:

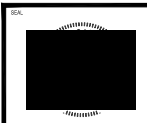
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
6	AND CENTERLINE	W	WEST
8	DIAMETER OR ROUND PROPERTY LINE	MAX	MAXIMUM
8	DIAMETER OR ROUND PROPERTY LINE	MIN	MINIMUM
ABC	AGGREGATE BASE ASPH	N	NORTH
AVE	AVENUE	NCDENR	NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
BLVD	BOULEVARD	NCDOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
BLOC	BUILDING	NTS	NOT TO SCALE
BWC	BACK OF CURB	OH	OVERHEAD
BTM	BOTTOM OF WALL	OCC	OFF-SET CATCH BASIN
CB	CATCH BASIN	OCB	OVERHEAD
CI	CURB INLET	PCC	PORTLAND CEMENT CONCRETE
CP	CAST IRON PIPE	PE	POLYETHYLENE
CLS	CLASS	PROVY	PROVINCIAL
CJ	CONTROL JOINT	PCC	POINT OF CONNECTION
CO	CLEANOUT	PVC	POLY(VINYL CHLORIDE)
CONC	CONCRETE	R	RADIUS
DI	DROP INLET	RCP	REINFORCED CONCRETE PIPE
DIA	DIAMETER	R.O.W.	RIGHT OF WAY
DIP	DOMESTIC IRON PIPE	RPZA	REDUCED PRESSURE DETECTOR ASSEMBLY
DOM	DOMESTIC	RPZ	REDUCED PRESSURE ZONE
DR	DRIVE	S	SOUTH
(XX)	EXISTING ELEVATION	SD	STORM DRAIN
EL	ELEVATION	S&H	STORM DRAIN MANHOLE
EJ	EXPANSION JOINT	SDE	SIGHT DISTANCE EASEMENT
EOP	EDGE OF PAVEMENT	SS&H	SANITARY SEWER MANHOLE
EA	EXISTING	SS	SANITARY SEWER
EVAP	EVAPORATIVE	STA	STATION
FDC	FIRE DEPARTMENT CONNECTION	STD	STANDARD
FES	FINISHED END SECTION	STL	STAINLESS STEEL
FPE	FINISHED FLOOR ELEVATION	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
FG	FINISHED GRADE	T	TEMPORARY
PH	FIRE HYDRANT	TB	TOP OF BARRIER
PL	FLOW LINE	TOP	TOP OF CURB
FT	FOOT OR FEET	TOC	TEMPORARY DIVERSION
G	GAS	TH	TEST HEADER
GALV	GALVANIZED	TOP	TOP OF PIPE
GB	GRADE BREAK	TP	TOP OF PAD
GE	GENERAL ELECTRIC	TYP	TYPICAL
GR	GRADE	TOP	TOP OF WALL
HDPE	HIGH DENSITY POLYETHYLENE	UG	UNDERGROUND
HORIZ	HORIZONTAL	UG	UNDERGROUND
HQV	HIGH OCCUPANCY VEHICLE	VEG	VEGETATED
HP	HIGH POINT	VERT	VERTICAL
I	IN ACCORDANCE WITH	W	WEST
IH	INTERSTATE HIGHWAY	W/O	WITHOUT
INV	INVERT	W/O	WITHOUT
LEN	LENGTH	YI	YARD INLET
LEV	LOW EMISSION VEHICLE		
LF	LINEAL FEET		
LP	LOW POINT		

\*\* ALL SYMBOLS & ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS DRAWING PACKAGE \*\*



ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS & SPECIFICATIONS

NOT FOR CONSTRUCTION



Curry ENGINEERING

C-01

ARROW PRE-SCHOOL - RALEIGH, NC

CIVIL NOTES

2024 ARROW PRE-SCHOOL  
2024 ARROW PRE-SCHOOL  
2024 ARROW PRE-SCHOOL

Curry ENGINEERING

C-01

# LEGEND

- YELLOW OAK
- WATER OAK
- PECAN
- MAPLE
- CEDAR
- CHERRY
- ASH
- DOGWOOD
- ELM
- PEAR
- RED OAK
- PINE

LINE	LENGTH	BEARING
L-1	28.46'	S 81°16'30" E
L-2	22.22'	S 38°53'07" E
L-3	38.85'	N 04°22'10" E

CURVE	LENGTH	RADIUS	CHORD	BEARING
C-1	75.11'	385.93'	75.09'	N 30°22'15" W

## Surveyor:

Cawthorne, Moss and Panciera, P.C.  
P.O. Box 1253  
Wake Forest N.C., 27588  
919.556.3148  
Contact: Michael Moss, PLS

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH  
CITY OF RALEIGH STANDARDS & SPECIFICATIONS

## GENERAL NOTES:

- THIS PLAN IS NOT INTENDED FOR PLATTING OR RECORDATION.
- THE INTENT OF THIS PLAN IS TO ILLUSTRATE THE EXISTING FEATURES, STRUCTURES AND TOPOGRAPHY OF THE PROPERTY. THE INFORMATION SHOWN ON THIS PLAN WAS PROVIDED AND DEVELOPED BY OTHERS. CURRY ENGINEERING DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION. THIS IT HAS NOT BEEN SEALED. SURVEY INFORMATION SHOWN WITHIN THE PARENT PROPERTY BOUNDARY REPRESENTS FIELD SURVEY INFORMATION CONDUCTED IN OCTOBER 17, 2022, BY CANTHORNE, MOSS AND PANCIERA LAND SURVEYORS.
- NO TITLE OPINION ON THIS PROPERTY HAS BEEN FURNISHED.
- AREAS COVERED BY THE COORDINATE METHOD.
- THE PROPERTY SHOWN HEREON IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS, COVENANTS, AND RESTRICTIONS OF RECORD.
- ALL DISTANCES SHOWN ON THE SURVEY ARE HORIZONTAL GROUND DISTANCES.
- THE PROPERTY SHOWN IS LOCATED IN FLOOD ZONE X FLOODPLAIN PER FEMA FIRM PANEL 370712200K DATED 07/16/2002.
- VERTICAL DATUM: NAVD83, HORIZONTAL DATUM: NAD83
- CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS, DEPTHS, AND MATERIALS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITY ON SITE. UNDERGROUND UTILITIES ARE SHOWN BASED ON MARKINGS PROVIDED BY THE NC ONE CALL CENTER AND ABOVE GROUND EVIDENCE. EXISTING CONDITIONS SHOULD BE CONSIDERED APPROXIMATE IN NATURE. WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THE INFORMATION GIVEN, ACTUAL FIELD CONDITIONS MAY VARY AND SHOULD BE CONFIRMED PRIOR TO CONSTRUCTION.
- NO TEMPORARY OR PERMANENT ENCROACHMENTS INCLUDING BUT NOT LIMITED TO CLEARING, GRADING, FENCING, AND THE INSTALLATION OF RETAINING WALLS OR OTHER STRUCTURES ARE PERMITTED WITHIN THE GREENWAY EASEMENT AREA WITHOUT PRIOR APPROVAL BY THE CITY OF RALEIGH.

## DEMOLITION NOTES:

- NO EQUIPMENT IS ALLOWED ON THE SITE OR DISTURBANCE IS PERMITTED UNTIL ALL THE TREE PROTECTION AND SILT FENCING HAS BEEN INSTALLED AND APPROVED.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER IN THE EVENT THAT UNANTICIPATED HAZARDOUS MATERIALS ARE ENCOUNTERED. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AND REGULATIONS REGARDING THE HANDLING AND DISPOSAL OF HAZARDOUS MATERIALS. A COPY OF THE DEMOLITION NOTIFICATION FROM THE NORTH CAROLINA HEALTH HAZARD CONTROL UNIT AN ASBESTOS INSPECTION REPORT FROM A NORTH CAROLINA ACCREDITED ASBESTOS INSPECTOR MUST ACCOMPANY THE APPLICATION FOR THE DEMOLITION PERMIT WHICH MUST BE OBTAINED PRIOR TO THE START OF DEMOLITION.
- DEMOLITION OF STRUCTURES AND/OR UTILITIES BASED ON EXISTING CONDITIONS SURVEY. IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON THIS PLAN THAT REQUIRES ADDITIONAL DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR THE ENGINEER PRIOR TO PROCEEDING WITH REMOVAL OF STRUCTURE AND/OR UTILITY. SUBSURFACE UTILITIES AND FEATURES IDENTIFIED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE IN NATURE AND HAVE BEEN LOCATED TO THE EXTENT POSSIBLE VIA LEVEL "C" SUE METHODS. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXCAVATION, INCLUDING UTILITY "POTHOLING" OR BY THE EXCAVATION OF TEST PITS AS NECESSARY TO DETERMINE THE UTILITY LOCATION, DEPTHS, AND MATERIALS.
- CONTRACTOR SHALL NOT BEGIN ANY DEMOLITION WORK PRIOR TO APPROVAL AND ISSUANCE OF LAND DISTURBANCE AND DEMOLITION PERMITS ISSUED BY THE CITY OF RALEIGH.
- DO NOT INTERRUPT EXISTING UTILITY SERVICES FOR FACILITIES OCCUPIED BY THE OWNER OR OTHERS EXCEPT WHEN PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE ACCEPTABLE TEMPORARY UTILITY SERVICES.
  - NOTIFY OWNER NOT LESS THAN 72 HOURS IN ADVANCE OF PROPOSED UTILITY SERVICE INTERRUPTIONS.
- DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT RECEIVING WRITTEN PERMISSION FROM THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING CITY OF RALEIGH OR NC DOT INFRASTRUCTURE, PRIVATE UTILITY, COMPANY, INFRASTRUCTURE, OR ADJACENT PROPERTY OWNERS PROPERTY.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER IN THE EVENT THAT UNANTICIPATED HAZARDOUS MATERIALS ARE ENCOUNTERED. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AND REGULATIONS FOR DISPOSAL OF HAZARDOUS MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELOCATION OR DEMOLITION OF PRIVATE UTILITIES WITH THE PROPER PRIVATE UTILITY COMPANY.
- CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND IMPLEMENTING A TRAFFIC CONTROL PLAN PER NC DOT AND MUTCD STANDARDS.
- CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF HIGHER EQUIPMENT AND MATERIALS STORED ON-SITE DURING CONSTRUCTION.
- ANY PAVEMENT CUT SHALL BE DONE AS A FULL DEPTH SAW CUT WITH LINES STRAIGHT AND NEAT.
- REMOVE ALL EXISTING ON-SITE TRASH AND DEBRIS. TRASH SHALL BE REMOVED AND DEPOSED OF IN A LEGAL MANNER. NOTIFY OWNER AND ENGINEER IF ANY HAZARDOUS MATERIALS (ASBESTOS, LEAD PAINT, ETC.) ARE ENCOUNTERED.
- REMOVE SIDEWALK, CURBS AND GUTTER, AND OTHER CONCRETE SECTIONS BY SAW CUTTING THE NEAREST CONTROL JOINT AWAY FROM THE AREA DESIGNATED TO BE REMOVED ON THE DEMOLITION PLAN.
- NOTIFY AND COORDINATE ANY REQUIRED RELOCATION AND/OR REMOVAL OF EXISTING UNDERGROUND UTILITIES, POLES, METERS, OR OTHER ABOVE GROUND APPURTENANCES WITH THE APPROPRIATE UTILITY PROVIDER (E.G. POWER, TELEPHONE, CABLE, AND NATURAL GAS) PRIOR TO THE START OF SELECTIVE DEMOLITION WORK.
- ALL DEMOLISHED MATERIALS SHALL BE DEPOSED OF OFF-SITE IN A LAWFUL MANNER.
- CONTRACTOR SHALL MAINTAIN A CLEAN WORK SITE, FREE OF DEBRIS, TRASH OR OTHER CONSTRUCTION MATERIALS. AREAS SUBJECT TO SITE CONSTRUCTION ADJACENT TO THE PUBLIC RIGHT OF WAY AND PEDESTRIAN SIDEWALKS SHALL BE LEFT "BROOM CLEAN" AT THE END OF EACH WORK DAY.
- CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY UTILITIES NEEDED DURING CONSTRUCTION.

## DEMOLITION LEGEND

- APURTENANCE/POLE REMOVAL
- TREE REMOVAL
- TREE & VEGETATION REMOVAL
- TRASH & DEBRIS REMOVAL
- REMOVAL
- CONCRETE REMOVAL
- UTILITY DEMOLITION
- TREE PROTECTION FENCE

## SURVEYOR'S NOTES

- THIS PLAT SUBJECT TO ALL EASEMENTS, AGREEMENTS AND RIGHTS OF WAY OF RECORD PRIOR TO THE DATE OF THIS PLAT.
- NO UNDERGROUND UTILITIES HAVE BEEN MAPPED OR LOCATED FOR THIS PLAT.
- ALL BEARINGS AND DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS PRIOR TO THE DATE OF THIS PLAT.
- ALL ELEVATIONS ARE BASED ON APPROXIMATE NC83 DATUM.
- ALL CONTOURS ARE AT 1' INTERVALS DERIVED FROM LIDAR.

NOT FOR CONSTRUCTION

ARROW PRE-SCHOOL - RALEIGH, NC  
EXISTING CONDITIONS & DEMOLITION PLAN

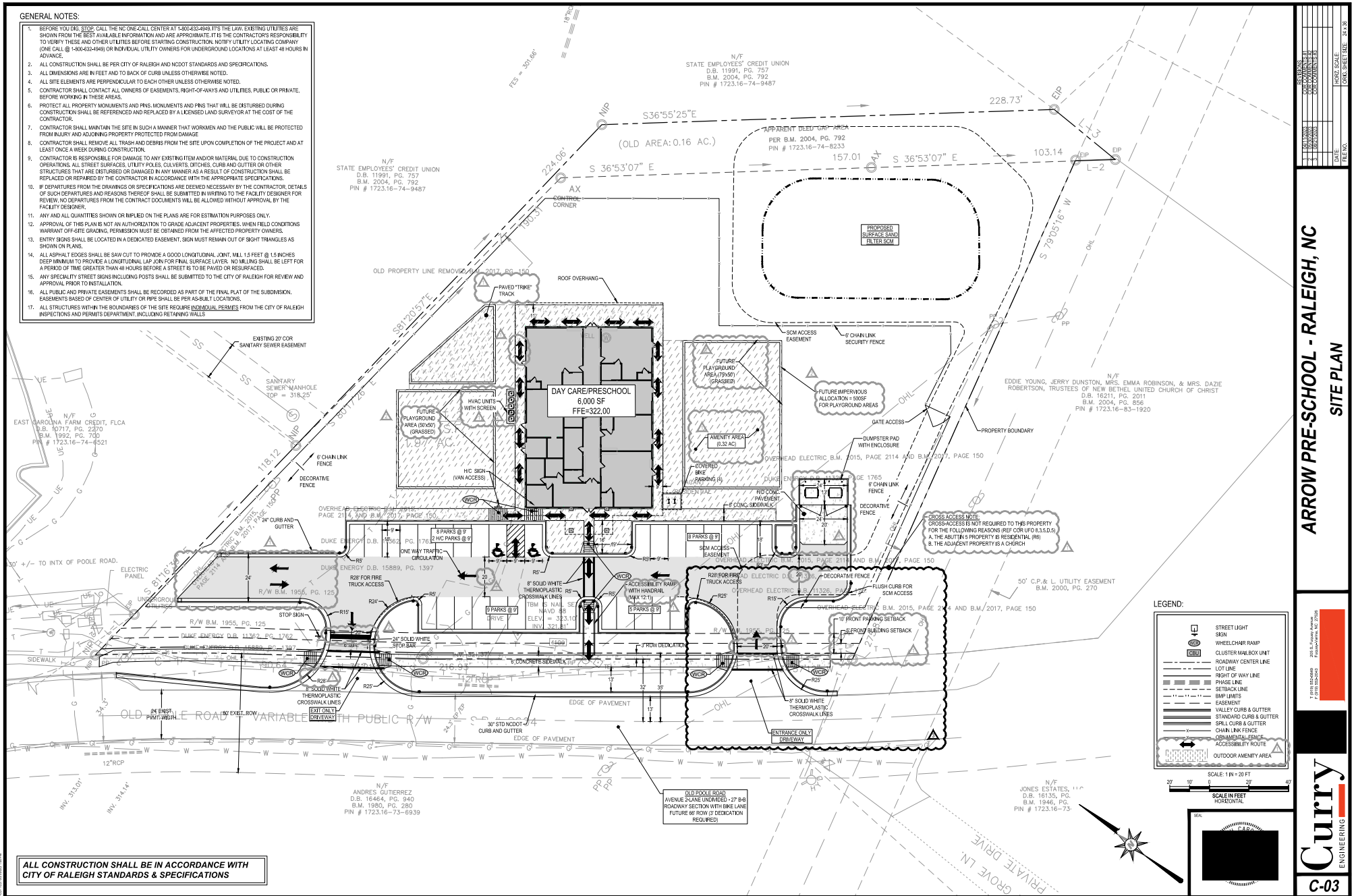
Curry Engineering  
P.O. Box 1253  
Wake Forest, NC 27588  
919.556.3148

Curry  
ENGINEERING

C-02

# GENERAL NOTES:

- BEFORE YOU DIG STOP, CALL THE NC ONE-CALL CENTER AT 1-800-432-4649. IT'S THE LAW. EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE AND OTHER UTILITIES BEFORE STARTING CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (ONE CALL @ 1-800-432-4649) OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.
- ALL CONSTRUCTION SHALL BE PER CITY OF RALEIGH AND NC DOT STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS ARE IN FEET AND TO BACK OF CURB UNLESS OTHERWISE NOTED.
- ALL SITE ELEMENTS ARE PERPENDICULAR TO EACH OTHER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, RIGHT-OF-WAYS AND UTILITIES, PUBLIC OR PRIVATE, BEFORE WORKING IN THESE AREAS.
- PROTECT ALL PROPERTY MONUMENTS AND PINS. MONUMENTS AND PINS THAT WILL BE OBTAINED DURING CONSTRUCTION SHALL BE REFERENCED AND REPLACED BY A LICENSED LAND SURVEYOR AT THE COST OF THE CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN THE SITE IN SUCH A MANNER THAT WORKMEN AND THE PUBLIC WILL BE PROTECTED FROM INJURY AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL DUE TO CONSTRUCTION OPERATIONS. ALL STREET SURFACES, UTILITY POLES, CULVERTS, DITCHES, CURB AND GUTTER OR OTHER STRUCTURES THAT ARE OBTAINED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATIONS.
- IF DEPARTURES FROM THE DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED IN WRITING TO THE FACILITY DESIGNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS WILL BE ALLOWED WITHOUT APPROVAL BY THE FACILITY DESIGNER.
- ANY AND ALL QUANTITIES SHOWN OR IMPLIED ON THE PLANS ARE FOR ESTIMATION PURPOSES ONLY.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
- ENTRY SIGNS SHALL BE LOCATED IN A DEDICATED EASEMENT. SIGN MUST REMAIN OUT OF SIGHT TRIANGLES AS SHOWN ON PLANS.
- ALL ASPHALT EDGES SHALL BE SAW CUT TO PROVIDE A GOOD LONGITUDINAL JOINT. MILL 1.5 FEET @ 1.5 INCHES DEEP MINIMUM TO PROVIDE A LONGITUDINAL LAP JOINT FOR FINAL SURFACE LAYER. NO MILLING SHALL BE LEFT FOR A PERIOD OF TIME GREATER THAN 48 HOURS BEFORE A STREET IS TO BE PAVED OR RESURFACED.
- ANY SPECIALTY STREET SIGNS INCLUDING POSTS SHALL BE SUBMITTED TO THE CITY OF RALEIGH FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- ALL PUBLIC AND PRIVATE EASEMENTS SHALL BE RECORDED AS PART OF THE FINAL PLAT OF THE SUBMISSION. EASEMENTS BASED ON CENTER OF UTILITY OR PIPE SHALL BE PER AS-BUILT LOCATIONS.
- ALL STRUCTURES WITHIN THE BOUNDARIES OF THE SITE REQUIRE INDIVIDUAL PERMITS FROM THE CITY OF RALEIGH INSPECTIONS AND PERMITS DEPARTMENT, INCLUDING RETAINING WALLS.



ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS & SPECIFICATIONS

ARROW PRE-SCHOOL - RALEIGH, NC

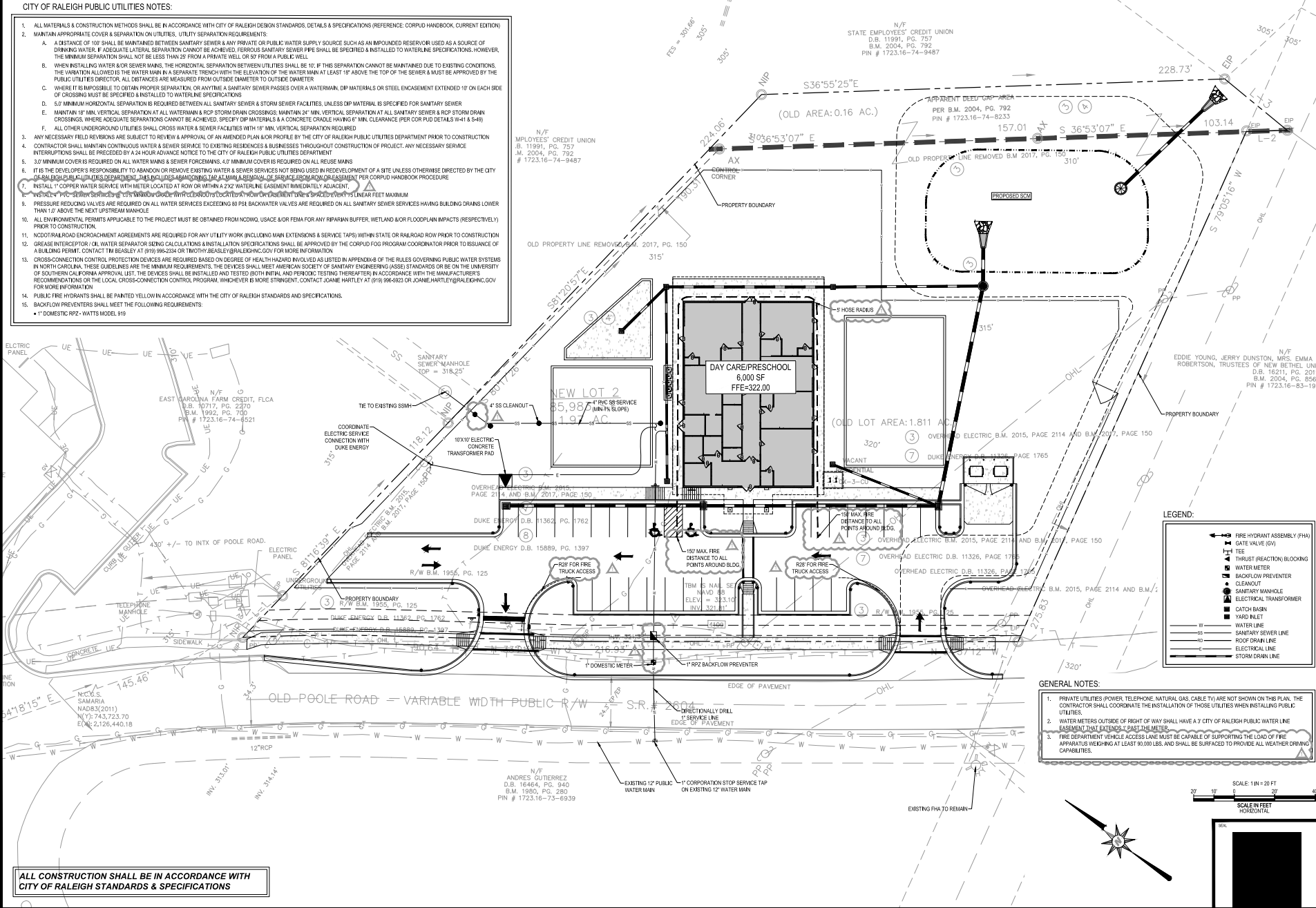
SITE PLAN

Curry  
ENGINEERING  
C-03



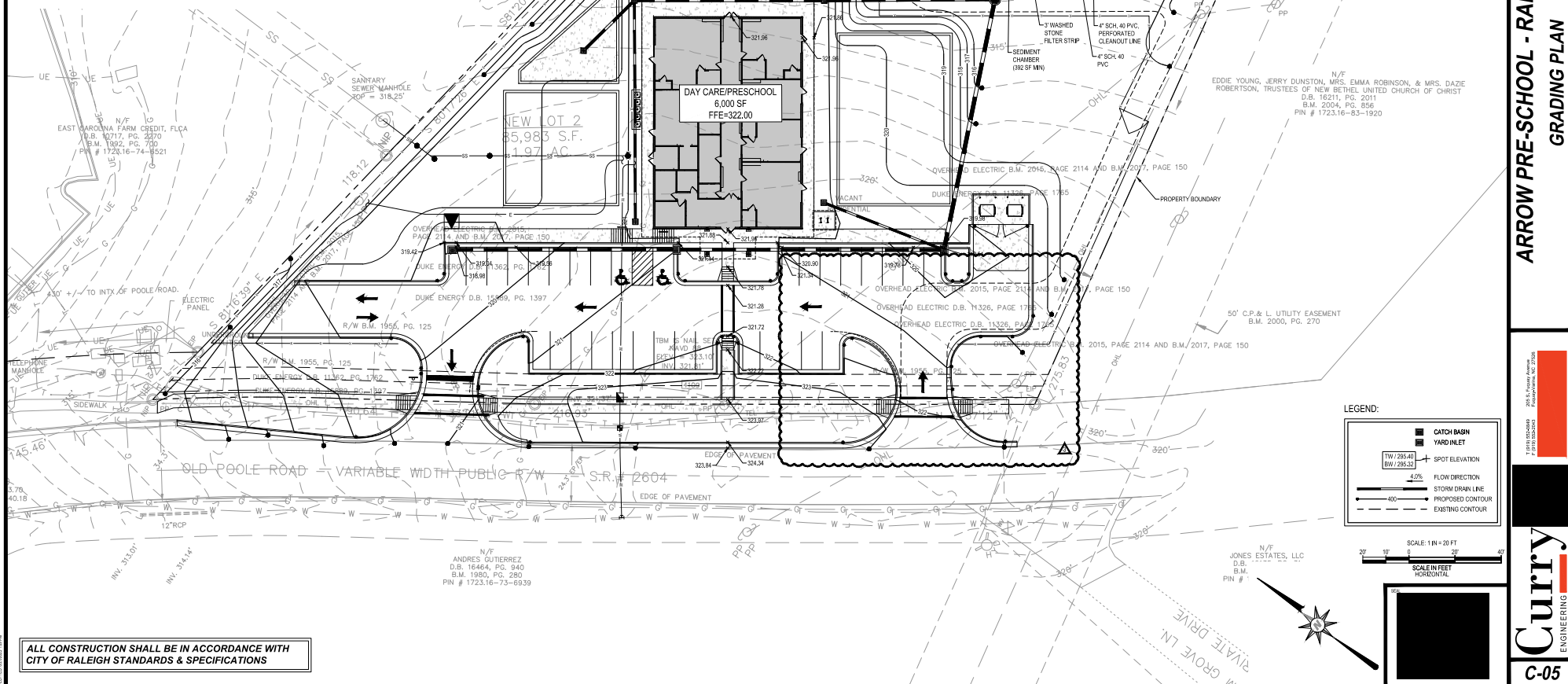
# CITY OF RALEIGH PUBLIC UTILITIES NOTES:

- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
- MAINTAIN APPROPRIATE COVER & SEPARATION ON UTILITIES. UTILITY SEPARATION REQUIREMENTS:
  - A DISTANCE OF 10' 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 PUBLIC WELL.
  - WHEN INSTALLING WATER &/or SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 12'. 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.
  - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 12" ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
  - 5/2" MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
  - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS. MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS, WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED. SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & W-49).
  - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- 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.
- 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.
- 3/2" MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4/2" MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- 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 OF ALL MAINS & SERVICE LINES FROM R.O.W. OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- INSTALL 1" COPPER WATER SERVICE WITH METER LOCATED AT R.O.W. OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT.
- USUALLY 1" P.V.C. SEWER SERVICES @ 1/2" MIN. COVER WITH CLEANS OUTS LOCATED AT R.O.W. OR EASEMENT LINES & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- 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 12" ABOVE THE NEXT UPSTREAM MANHOLE.
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDCW, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- NECOTIA ROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK INCLUDING MAIN EXCHANGES & SERVICE TAPS WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
- GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TM BEASLEY AT (919) 986-2334 OR TMH@BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
- CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED BOTH INITIAL AND PERIODIC TESTING THEREAFTER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ON THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 986-8923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
- PUBLIC FIRE HYDRANTS SHALL BE PAINTED YELLOW IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
- BACKFLOW PREVENTERS SHALL MEET THE FOLLOWING REQUIREMENTS:
  - 1" DOMESTIC RP2 - WATTS MODEL 319



# GENERAL NOTES:

- BEFORE YOU DIG, STOP, CALL THE NC ONE-CALL CENTER AT 1-800-432-4449. IT'S THE LAW. EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE AND OTHER UTILITIES BEFORE STARTING CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (ONE CALL @ 1-800-432-4449) OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARD SPECIFICATIONS AND DETAILS.
- TREE PROTECTION FENCING SHALL BE PROVIDED ALONG ALL VEGETATED RIPARIAN AND VEGETATED PERMITTER BUFFER AREAS AS WELL AS TREE CONSERVATION AREAS.
- 20' STORM EASEMENTS SHALL BE CENTERED ON ALL STORM SEWER PIPE LOCATED OUTSIDE OF STREET RIGHT OF WAYS.
- UTILITY PIPE SIZES & LOCATIONS ARE PRELIMINARY AND SHALL BE FINALIZED DURING CONSTRUCTION DRAWING REVIEW & APPROVAL.
- ALL STORM DRAINAGE WITHIN THE RIGHT OF WAY SHALL BE PUBLIC. ALL STORM DRAINAGE OUTSIDE THE RIGHT OF WAY SHALL BE PRIVATE.
- STORM DRAINAGE PIPING SHALL BE CLASS IV RCP UNLESS OTHERWISE NOTED. STORM DRAINAGE WITH LESS THAN 12" OF COVER MEASURED FROM SUBGRADE SHALL BE CLASS IV RCP.
- ANY STORM DRAINAGE PIPING THAT IS TO BE LAID FLAT SHALL BE O-RING GASKETTED PIPE CONFORMING TO ASTM C-443.
- PRIVATE UTILITIES (POWER, TELEPHONE, NATURAL GAS, CABLE TV) ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THOSE UTILITIES WHEN INSTALLING STORM DRAINAGE TO AVOID CONFLICTS.
- RIM ELEVATION FOR YARD INLETS (YI) REFERS TO THE CENTER OF THE TOP OF GRATE. RIM ELEVATION OF MANHOLES (SDMH) REFERS TO THE CENTER OF THE TOP OF MANHOLE COVER. TOP ELEVATION OF CATCH BASINS (CB) REFERS TO THE CENTER OF THE TOP OF CASTING ELEVATION.
- PROPOSED CONTOURS ILLUSTRATE THE FINISHED SURFACE ELEVATION FOR PAVEMENT. FINISHED SUBGRADE ELEVATION IN OPEN AREAS AND TOP OF RIP-RAP UNLESS OTHERWISE NOTED.
- CUTFILL SLOPES SHALL BE GRADED AT A MAXIMUM OF 3:1 V UNLESS OTHERWISE INDICATED.
- NO GRADING EQUIPMENT SHALL BE PERMITTED ON-SITE UNTIL A GRADING PERMIT HAS BEEN ISSUED BY THE CITY OF RALEIGH.
- ALL RIP-RAP IS TO BE INSTALLED WITH NON-WOVEN FILTER FABRIC BENEATH (MIN 140N OR APPROVED EQUAL).
- WHERE PROPOSED EDGE OF PAVEMENT CONNECTS TO EXISTING, CONTRACTOR SHALL MATCH EXISTING ELEVATION AND CREATE A SMOOTH TRANSITION.
- CONTRACTOR SHALL RAISE ALL STRUCTURES TO FINISHED GRADE ELEVATIONS.
- ALL STORM DRAINAGE LINES OUTSIDE OF PUBLIC RIGHT OF WAY REQUIRE 20' PRIVATE DRAINAGE EASEMENTS CENTERED ON PIPE.
- ANY REQUIRED DISTURBANCE ON ADJACENT PROPERTIES REQUIRE APPROVAL FROM ADJACENT PROPERTY OWNER PRIOR TO ISSUANCE OF GRADING PERMIT. APPROVAL FROM PROPERTY OWNER CAN BE IN FORM OF A TEMPORARY CONSTRUCTION EASEMENT GRANTED OR LETTER OF CONSENT TO DISTURBANCE.



ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS & SPECIFICATIONS

ARROW PRE-SCHOOL - RALEIGH, NC

GRADING PLAN

Curry  
ENGINEERING

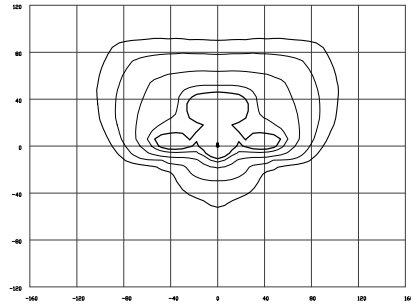
C-05

# ISOFOOTCANDLE CURVES

FIXTURE: LEDISO, EATON  
MOUNTING HEIGHT: 30 FT  
LIGHT SOURCE: LED'S, 4000K, 70 CRI  
PATTERN: TYPE IV S3-U0-G3 (zero light at or above 90 degrees)

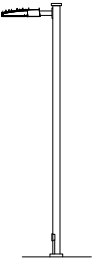
ASSY# LFIX-SBX-LED-150-BLK-IV-MULTIV-...-P  
P.O.E. ASSY# LPOLE-48-STL-30FT-BLK-S3-...-P (BLACK)  
BRACKET ASSY# LBKT-SIDE-12IN-BLK-UV-STL-...-P (BLACK)

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LED LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION FOR INITIAL FOOTCANDLES. DIVIDE THE READINGS BELOW BY .85.

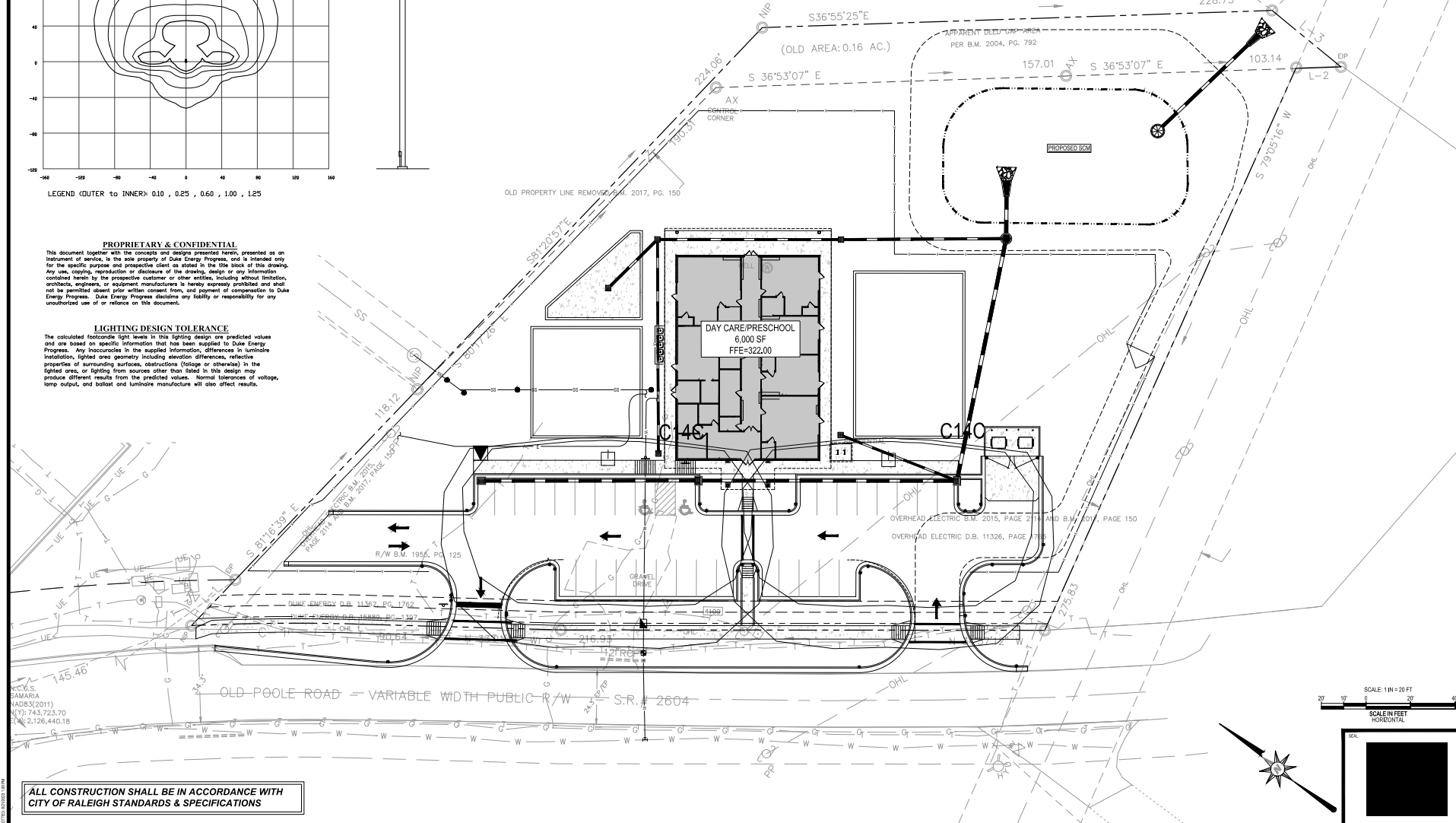


LEGEND (OUTER to INNER): 0.10, 0.25, 0.60, 1.00, 1.25

C14C



TYPE	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	W/F	QTY
C14C	⬤	EATON - STREETW SB150L_N_HSS (1) "E14S" GAN-AF-03-LED-U-SL44HSS	(48) SB150L_N_Shield	15872	30' MT HT Single Fixture	0.85	2

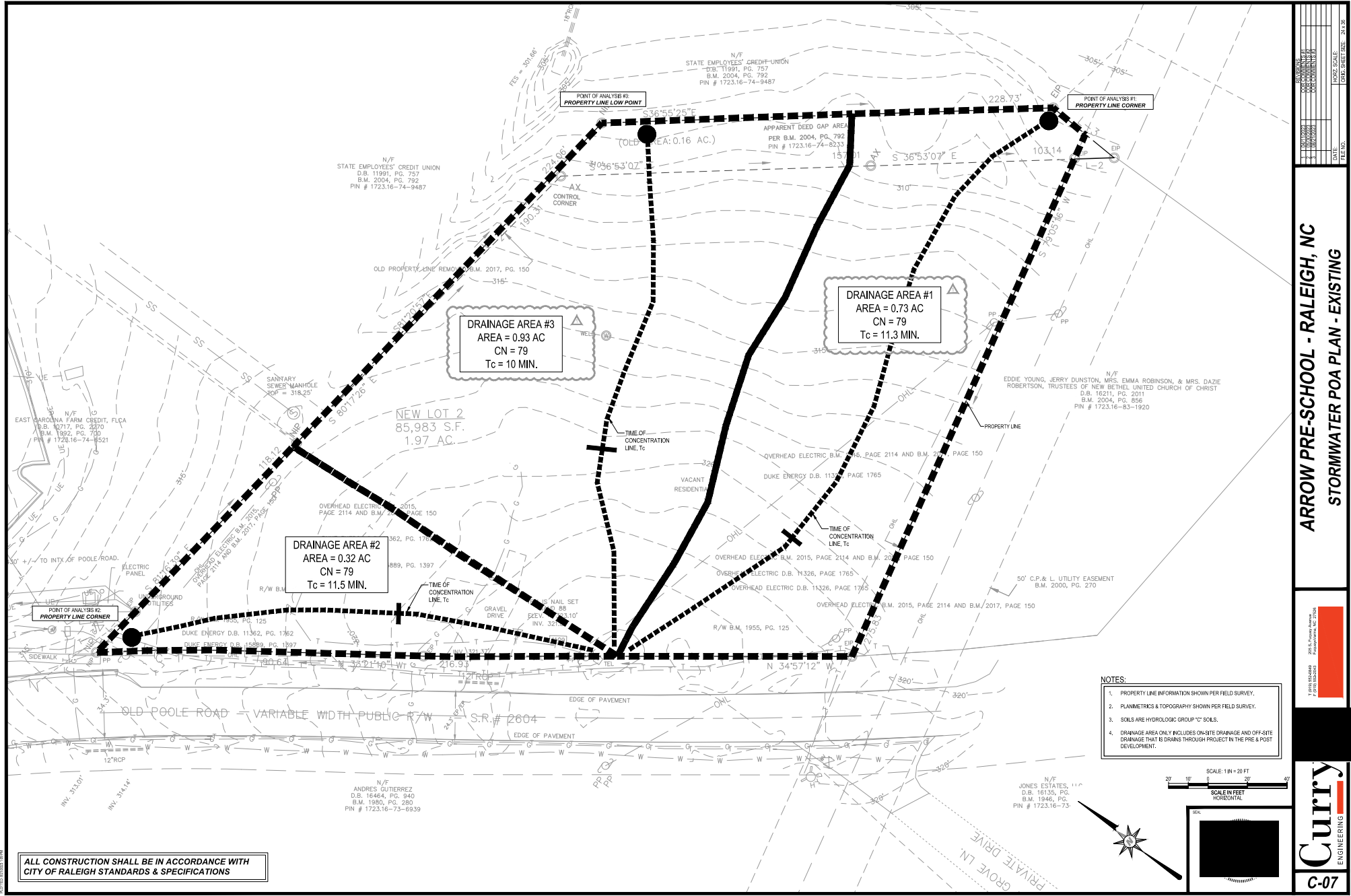


ARROW PRE-SCHOOL - RALEIGH, NC  
LIGHTING PLAN

DATE: 08/08/2011  
PROJECT: ARROW PRE-SCHOOL  
DRAWN BY: J. HARRIS  
CHECKED BY: J. HARRIS  
APPROVED BY: J. HARRIS

Curry  
ENGINEERING  
C-06

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS & SPECIFICATIONS



ARROW PRE-SCHOOL - RALEIGH, NC  
STORMWATER POA PLAN - EXISTING

DATE: 10/11/2019  
PROJECT: Arrow Pre-School  
DRAWN BY: [Redacted]  
CHECKED BY: [Redacted]  
APPROVED BY: [Redacted]



PCA#2 PRE & POST (HYD #2, 3)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	0.76	0.29	-0.47	-62%
10 yr	1.44	0.59	-0.85	-59%
25 yr	1.86	0.78	-1.08	-58%
100 yr	2.90	1.09	-1.81	-62%

PCA#3 PRE & POST (HYD #3, 4)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	2.20	0.89	-1.31	-60%
10 yr	4.20	1.82	-2.38	-57%
25 yr	5.40	2.41	-2.99	-55%
100 yr	7.27	3.33	-3.94	-54%

PCA#4 PRE & POST (HYD #4, 5)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	3.90	0.56	-3.34	-86%
10 yr	7.45	0.52	-6.93	-93%
25 yr	9.86	0.45	-9.41	-95%
100 yr	12.83	0.74	-12.09	-94%

TOTAL SITE (HYD #14)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	8.85	1.73	-7.12	-80%
10 yr	13.69	2.92	-10.77	-79%
25 yr	18.84	4.26	-14.58	-77%
100 yr	22.68	6.11	-16.57	-73%

TOTAL SITE (HYD #14)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	8.85	1.73	-7.12	-80%
10 yr	13.69	2.92	-10.77	-79%
25 yr	18.84	4.26	-14.58	-77%
100 yr	22.68	6.11	-16.57	-73%

TOTAL SITE (HYD #14)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	8.85	1.73	-7.12	-80%
10 yr	13.69	2.92	-10.77	-79%
25 yr	18.84	4.26	-14.58	-77%
100 yr	22.68	6.11	-16.57	-73%

TOTAL SITE (HYD #14)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	8.85	1.73	-7.12	-80%
10 yr	13.69	2.92	-10.77	-79%
25 yr	18.84	4.26	-14.58	-77%
100 yr	22.68	6.11	-16.57	-73%

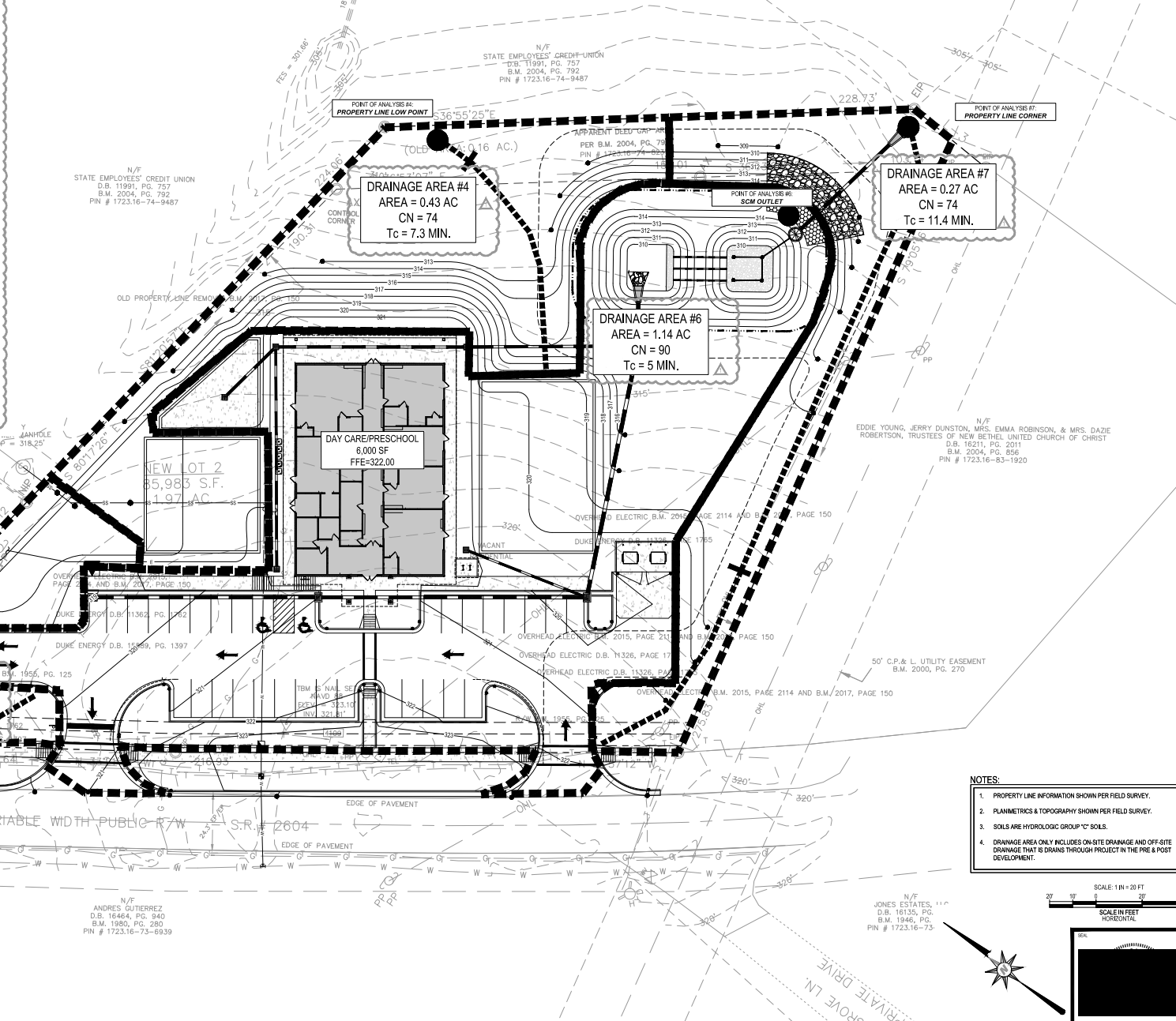
TOTAL SITE (HYD #14)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	8.85	1.73	-7.12	-80%
10 yr	13.69	2.92	-10.77	-79%
25 yr	18.84	4.26	-14.58	-77%
100 yr	22.68	6.11	-16.57	-73%

TOTAL SITE (HYD #14)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	8.85	1.73	-7.12	-80%
10 yr	13.69	2.92	-10.77	-79%
25 yr	18.84	4.26	-14.58	-77%
100 yr	22.68	6.11	-16.57	-73%

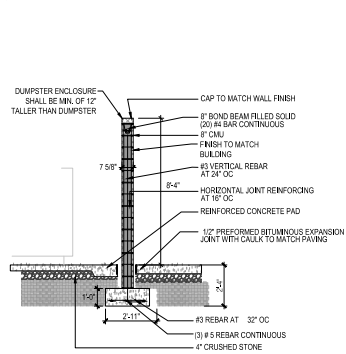
TOTAL SITE (HYD #14)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	8.85	1.73	-7.12	-80%
10 yr	13.69	2.92	-10.77	-79%
25 yr	18.84	4.26	-14.58	-77%
100 yr	22.68	6.11	-16.57	-73%

TOTAL SITE (HYD #14)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	8.85	1.73	-7.12	-80%
10 yr	13.69	2.92	-10.77	-79%
25 yr	18.84	4.26	-14.58	-77%
100 yr	22.68	6.11	-16.57	-73%

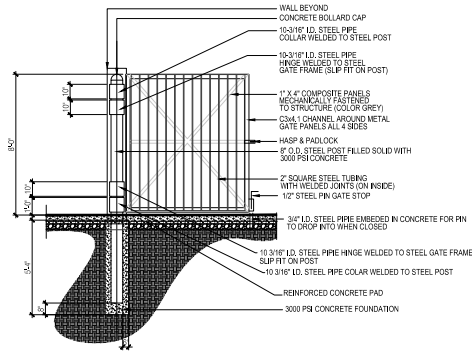
TOTAL SITE (HYD #14)				
Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)	Net Change (cfs)	% Change (%)
2 yr	8.85	1.73	-7.12	-80%
10 yr	13.69	2.92	-10.77	-79%
25 yr	18.84	4.26	-14.58	-77%
100 yr	22.68	6.11	-16.57	-73%



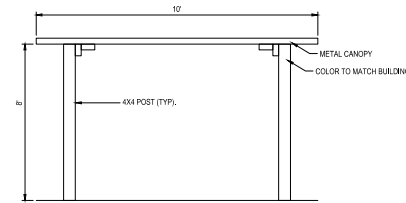
THIS DOCUMENT IS THE PROPERTY OF CURRY ENGINEERING. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF CURRY ENGINEERING.



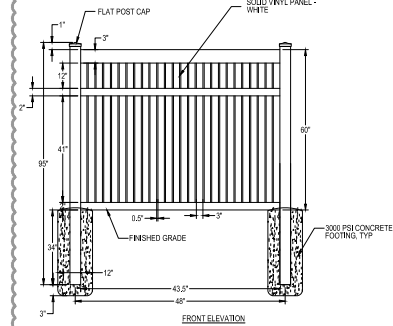
1 DUMPSTER ENCLOSURE  
SCALE: NTS



2 DUMPSTER ENCLOSURE GATE  
SCALE: NTS



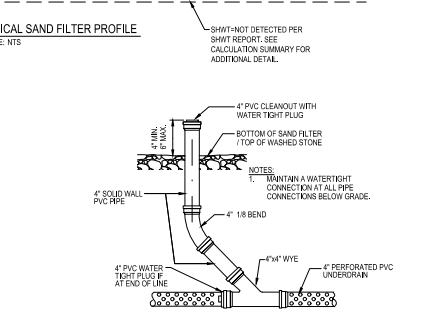
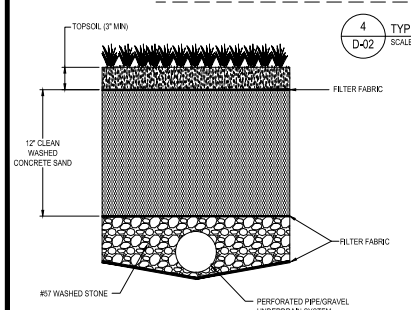
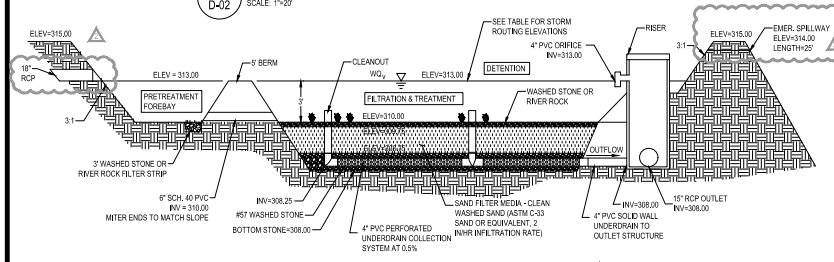
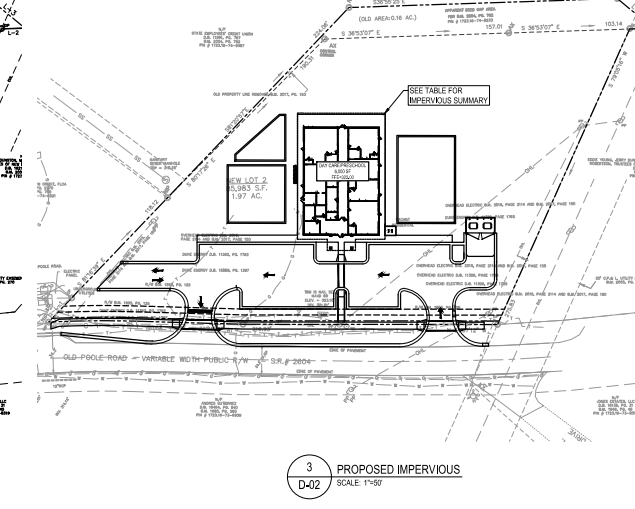
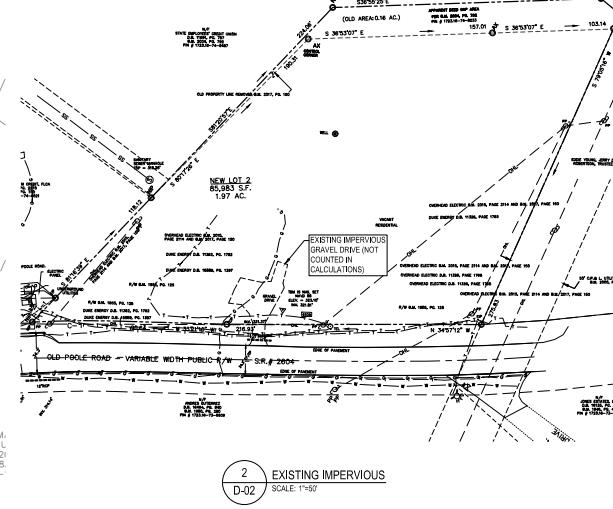
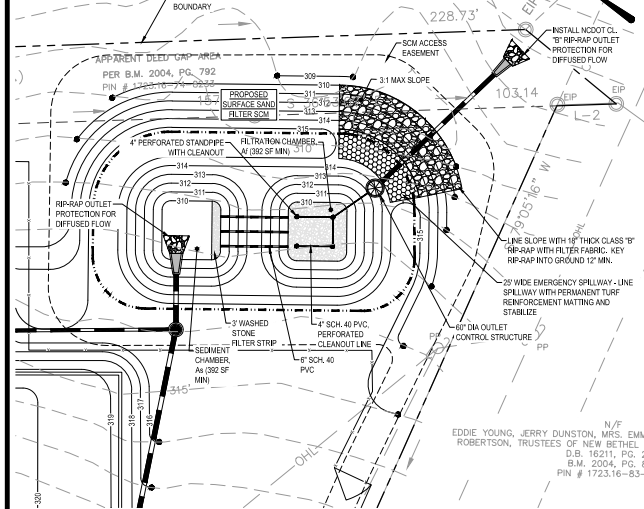
3 COVERED BICYCLE PARKING  
SCALE: NTS



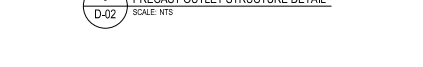
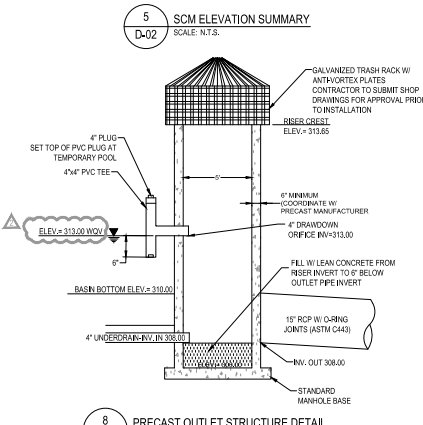
- NOTES:
1. PANELS MAY REQUIRE TRIMMING TO MEET 48" WIDTH.
  2. PANEL MUST EXTEND 12" ABOVE OUTDOOR HVAC UNIT.
  3. INSTALLATION OF FENCE PANEL SHALL BE PER MANUFACTURERS RECOMMENDATION.
  4. CONTRACTOR TO COORDINATE COLOR OF PANEL WITH OWNER. COLOR OF PANEL SHALL MATCH COLOR OF BUILDING.

4 HVAC SCREENING  
SCALE: NTS

N/T/  
EMPLOYEES' CREDIT-UNION  
B.T. 11991, PG. 757  
W. 2004, PG. 792  
# 1723.16-74-9487



SCM ELEVATIONS	
STORM	ELEVATION
Q2	313.27
Q10	313.83
Q25	313.93
Q100	313.98



- NOTES:
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCDEQ AND CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
  2. CONTRACTOR SHALL COORDINATE ALL GRADING OPERATIONS WITH THE OWNER'S GEOTECHNICAL ENGINEER, AS APPROPRIATE.
  3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL GRADES PRIOR TO THE START OF CONSTRUCTION.
  4. MAXIMUM SLOPE OF BASIN IS 3:1
  5. ALL SIDE SLOPES, EMBANKMENTS AND SPILLWAYS SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR PER ASTM D-998.
  6. CONTROLLED FILL AS SPECIFIED BY THE ENGINEER IN THE DAM EMBANKMENT SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LOOSE LAYERS WITHIN 3 FEET OF EITHER SIDE OF THE PRINCIPLE SPILLWAY PIPE TO A DEPTH OF 2-FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OR WITHIN 2% IN ACCORDANCE WITH ASTM D883.
  7. ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL PRIOR TO COMPACTING TO THE REQUIRED DENSITY. SOILS WITH ORGANIC MATTER CONTENT EXCEED 2% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3/4" IN ANY DIRECTION SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTING. THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS.
  8. ANY FILL LAYER THAT IS SMOOTH OR ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LEVEL.
  9. SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF THE CONTROLLED FILL.
  10. FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OR COMPRESSIBLE AND/OR UNSUITABLE SOILS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.
  11. TREATMENT OF SEEPAGE AREAS, SUBGRADE PREPARATIONS, FOUNDATION DRAINAGE, AND ROCK FOUNDATION PREPARATION MAY BE REQUIRED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER.
  12. FILL ADJACENT TO THE RISER AND PRINCIPAL SPILLWAY PIPE SHALL BE PLACED SO THAT LIFTS ARE AT THE SAME LEVEL ON BOTH SIDES OF THE STRUCTURE.
  13. EARTHWORK COMPACTED WITHIN 10' OF ANY STRUCTURES SHALL BE ACCOMPANIED BY MEANS OF HAND TAMPERS, MANUALLY DIRECTED POWER TAMPERS OR PLATE COMPACTORS OR MINIMUM SELF-PROPELLED ROLLERS.
  14. COMPACTATION BY MEANS OF DROP WEIGHTS FROM A CRANE OR HOIST SHALL NOT BE PERMITTED.
  15. HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES UNTIL ADEQUATE CURING TIME HAS ELAPSED.
  16. TO RE-ESTABLISH VEGETATION AFTER CONSTRUCTION, A 2 TO 3-INCH LAYER OF TOPSOIL SHALL BE PLACED ON THE DISTURBED EMBANKMENT SURFACE AND THE AREA SEEDED AND MULCHED OR HYDROSEEDED.
  17. ALL RISER STRUCTURES, INCLUDING RISER WALL TYPE STRUCTURES, SHALL BE REINFORCED CONCRETE, BRICK/CONCRETE BLOCK AND MORTAR TYPE STRUCTURES WILL NOT BE ACCEPTED.
  18. ALL RISER STRUCTURES SHALL BE LOCATED SUCH THAT DIRECT ACCESS FROM THE DAM EMBANKMENT CAN BE ACHIEVED.
  19. RISER STRUCTURES WITH MULTIPLE BARREL SECTIONS SHALL HAVE GASKETED JOINTS, AND EACH SECTION SHALL BE BOLTED TO ADJACENT SECTIONS WITH STAINLESS STEEL STRAPS. STEEL STRAPS SHALL BE MINIMUM 1/4" WIDE, 1/4" THICK, STRAP CENTERED ON JOINT WITH MINIMUM 2" OVERLAP. ATTACH STRAP TO BARREL SECTIONS WITH (2) 1/2" HEXBOLTS EMBEDDED IN STRUCTURE 3 INCHES. EPOXY BOLTS INTO STRUCTURE.
  20. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL TO ENGINEER TRASH RACK & TRASH GUARD PRIOR TO INSTALLATION.
  21. SHWT ANALYSIS PERFORMED BY SAEC ON MAR 17, 2023, REVEALED NO PRESENCE OF SHWT WITHIN 8' OF THE EXISTING SURFACE.

NOT FOR CONSTRUCTION

ARROW PRE-SCHOOL - RALEIGH, NC

SCM DETAILS

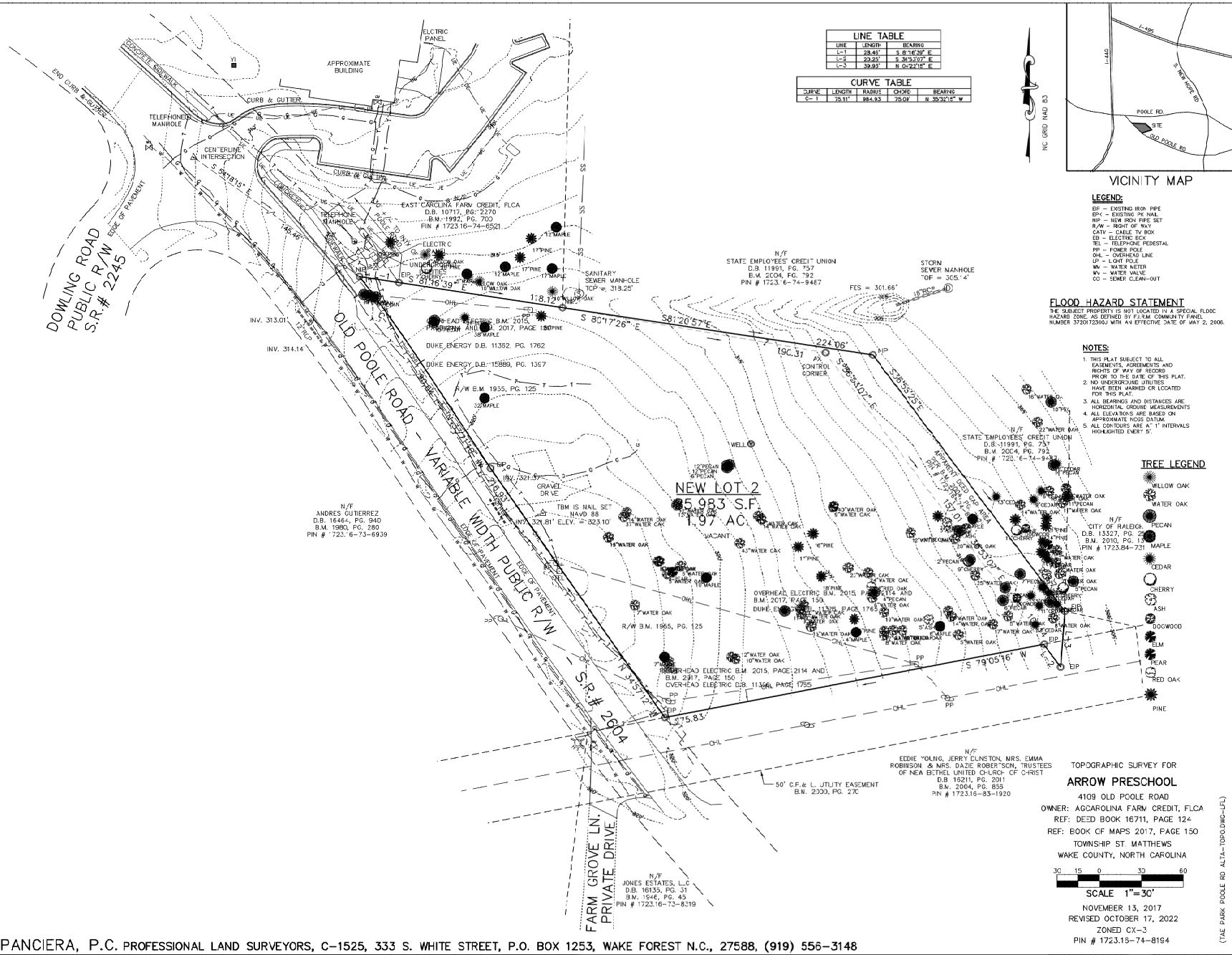
Curry  
ENGINEERING  
D-02

I, MICHAEL A. MOSS, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION. THAT THE SOURCE OF INFORMATION FOR THE SURVEY IS SHOWN HEREON, THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED, THAT THE RATIO OF PRECISION IS GREATER THAN 1:10,000, THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH U.S. 47-30 AS AMENDED, AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1000), WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL.

THIS 17TH DAY OF OCTOBER, 2022.  
Michael A. Moss  
PROFESSIONAL LAND SURVEYOR (L-2794)



CAWTHORNE, MOSS & PANCIERA, P.C. PROFESSIONAL LAND SURVEYORS, C-1525, 333 S. WHITE STREET, P.O. BOX 1253, WAKE FOREST N.C., 27588, (919) 556-3148



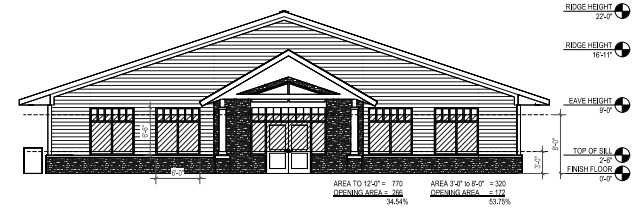


1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS & SPECIFICATIONS, NO PERMIT FOR THE CONSTRUCTION, RECONSTRUCTION, EXTENSION, REPLACEMENT OR ALTERATION OF ANY STRUCTURE, INCLUDING BUT NOT LIMITED TO BUILDINGS AND/OR ANY PART OF ANY BUILDING, OR ANY OTHER CONSTRUCTION, SHALL BE ISSUED UNTIL LANDSCAPING HAS BEEN PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RALEIGH STREET DESIGN MANUAL.
2. THE DEVELOPMENT SERVICES DEPARTMENT CANNOT ISSUE A CERTIFICATE OF COMPLIANCE UNTIL ALL LANDSCAPING HAS BEEN INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF RALEIGH STREET DESIGN MANUAL. A CERTIFICATE OF COMPLIANCE WILL BE ISSUED TO THE DEVELOPMENT SERVICES DEPARTMENT DETERMINES THAT DUE TO THE UNAVAILABILITY OF PLANT MATERIAL, OR WEATHER, THE PLANTING OF THE LANDSCAPING WILL BE DELAYED BEYOND THE 180 DAY PERIOD. THE DEVELOPMENT SERVICES DEPARTMENT WILL THEN BE REQUIRED TO SET A NEW PLANTING PERIOD OF UP TO 1 YEAR FOLLOWING THE DATE OF APPLICATION FOR A CERTIFICATE OF COMPLIANCE, IF APPLICABLE.
3. ALL STREET TREES SHALL BE PLANTED IN ACCORDANCE WITH CITY OF RALEIGH STANDARD DETAIL, TYPICAL.
4. TREE AND SHRUB PLANTINGS SHOULD NOT INTERFERE WITH THE SAFE VEHICULAR AND PEDESTRIAN TRAVEL ALONG THE STREET.
5. LANDSCAPING SHALL NOT OBSTRUCT THE VIEWS OF MOTORISTS USING ANY STREET, DRIVEWAY, PARKING ALONG OR THE APPROACH TO ANY STREET INTERSECTION.
6. LANDSCAPING INSTALLATION SHALL NOT BE ALLOWED TO INTERFERE WITH THE ENGINEERING REQUIREMENTS OF THE RALEIGH STREET DESIGN MANUAL.
7. TREES SHALL BE PLANTED WITHIN A TREE CONSERVATION AREA OR THE CRITICAL ROOT ZONE OF AN EXISTING TREE.
8. NO REQUIRED LANDSCAPING OR SCREENING SHALL BE PLANTED NEAR UTILITIES AND DRAINAGE SYSTEMS, INCLUDING BUT NOT LIMITED TO SEWERS, CASEWAYS, UNDER THE CITY AND C&S EASEMENT HOODS.
9. THE DEVELOPMENT SERVICES DEPARTMENT IS RESPONSIBLE FOR MAINTAINING ALL REQUIRED LANDSCAPING IN GOOD HEALTH, ANY DEAD, UNEALTHY OR MISSING LANDSCAPING MUST BE REPLACED WITH LANDSCAPING THAT CONFORMS TO THE UDO WITHIN 30 DAYS OR WITHIN 180 DAYS WHERE WETTER CONCERNS WOULD BE CONCERNED. THE HEALTH OF THE LANDSCAPING WILL BE MONITORED BY THE CITY OF RALEIGH. SEVERELY DAMAGED DUE TO AN UNUSUAL WEATHER OR OTHER CAUSE OF NATURE, THE DEVELOPMENT SERVICES DEPARTMENT WILL BE REQUIRED TO REPLACE THE LANDSCAPING WITHIN 180 DAYS.
10. ALL PLANTING AREAS MUST BE STABILIZED FROM SOIL EROSION IMMEDIATELY UPON PLANTING AND MUST BE MAINTAINED FOR THE DURATION OF THE UDO.
11. ALL REQUIRED LANDSCAPING SHALL BE MAINTAINED TO MEET ITS REQUIRED SIZE AND SHALL BE MAINTAINED AT THAT REQUIRED SIZE.
12. STREET TREES SHALL BE MAINTAINED AND MONITORED TO MEET ITS REQUIRED SIZE AND SHALL BE MAINTAINED AT THAT REQUIRED SIZE.

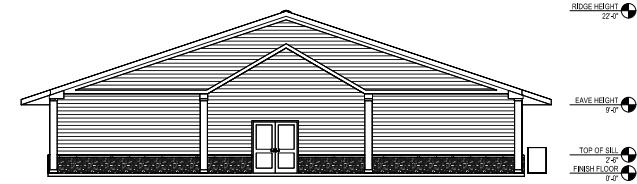


**L-01**

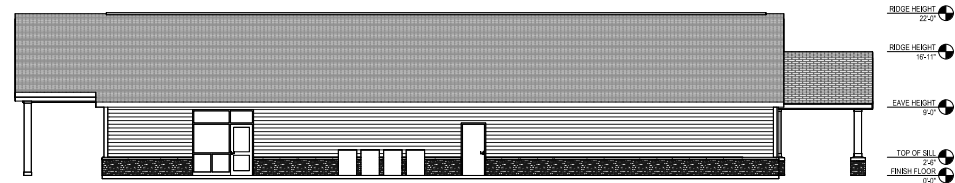




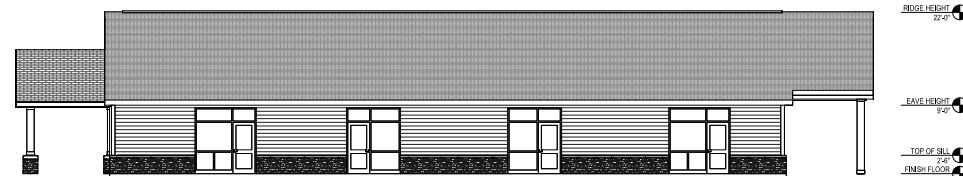
**1 COR - WEST ELEVATION**  
1/8" = 1'-0"



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



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



**4 COR - SOUTH ELEVATION**  
1/8" = 1'-0"

**REVIEW SET  
NOT FOR  
CONSTRUCTION**

**ARROW CHRISTIAN PRESCHOOL**  
4109 OLD POOLE RD  
RALEIGH, NC

No.	Description	Date
-----	-------------	------

PROJECT #: 210008

DATE: Issue Date

CITY OF RALEIGH  
ELEVATIONS

**S2.1COR**

DIGITAL PRINT DATE: 3/14/2023 1:52:18 PM