PROGRESS PLOT DATE: 1/16/2024

# KNIGHTDALE - CREEKVIEW CROSSING

# CONSTRUCTION PLAN

## TOWN OF KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA

ST. MATTHEWS TOWNSHIP

ZMA - 5 - 21

ORDINANCE #22-08-17-005

### SITE INFORMATION:

| | |
|---|---|
| LOCATION: | 4325 OLD FAISON RD |
| COUNTY: | WAKE |
| PARENT PIN: | 1744711175, 1744910921, 1744619718, 1744920445, 1744811114, 1744713798. |
| CURRENT ZONING: | PD - GR3 |
| ACREAGE: | 102.01 AC |
| LAND CLASS: | RESIDENTIAL |

| MINIMUM BUILDING SETBACKS: | SINGLE FAMILY | TOWNHOME |
|---|---|---|
| FRONT YARD: | 10' | 20' |
| SIDE YARD: | MIN 5' (FRONT LOADED), 3' (REAR LOADED) | 0' (10' BETWEEN BUILDINGS ) |
| REAR YARD: | 25' | 15' |
| CORNER YARD: | 10' | 10' |

| LOT ACREAGE: | |
|---|---|
| TOTAL NUMBER PROPOSED LOTS: | 273 (TOTAL AC: 22.94 AC) |
| PROPOSED DENSITY: | 2.68 DU/AC |
| MINIMUM ALLOWED LOT SIZE: | 2,000 SF |
| MINIMUM PROPOSED LOT SIZE: | 2,000 SF |
| MAXIMUM PROPOSED LOT SIZE: | 15,892 SF (LOT 64) |
| AVERAGE PROPOSED LOT SIZE: | 3,659 SF |
| MINIMUM ALLOWABLE LOT WIDTH: | 20' |
| MINIMUM PROPOSED LOT WIDTH: | 20' |

| LOT TYPE BREAKDOWN: | |
|---|---|
| TOWNHOMES (20'X100'): | 35 UNITS |
| 3 STORY TOWNHOMES (20'X100'): | 27 UNITS |
| SINGLE FAMILY (30'X110'): | 75 UNITS |
| SINGLE FAMILY (60'X120'): | 46 UNITS |
| SINGLE FAMILY (70'X120'): | 22 UNITS |
| BUILDING (70'X135'): | 68 UNITS |

| OPEN SPACE BREAKDOWN: | |
|---|---|
| PROPERTY BOUNDARY: | 4,443,566 SF (102.01 AC) |
| REQUIRED OPEN SPACE: | 322,344 SF (7.4 AC) |
| IMPROVED OPEN SPACE REQUIRED: | 80,586 SF (1.85 AC) |
| PROVIDED OPEN SPACE: | 2,602,649 SF (59.75 AC) |
| - PASSIVE OPEN SPACE PROVIDED : | 147,995 SF (3.40 AC) |
| + PARK | 117,053 SF (2.69 AC) |
| + PARK WITH BENCHES: | 30,942 SF (0.71 AC) |
| - ACTIVE OPEN SPACE PROVIDED: | 142,811 SF (3.28 AC) |
| + PLAYGROUND: | 10,454 SF (0.24 AC) |
| + AMENITY CENTER WITH POOL AREA: | 25,605 SF (0.59 AC) |
| + PUBLIC TRAIL: | 35,809 SF (0.82 AC) |
| + PRIVATE TRAIL: | 11,003 SF (0.25 AC) |
| + GREENWAY EASEMENT: | 40,732 SF (0.94 AC) |
| + BOCCE PARK: | 19,208 SF (0.44 AC) |
| - PRESERVED OPEN SPACE: | 2,311,843 SF (53.07 AC) |
| - TREE COVERAGE: | 2,311,843 SF (53.07 AC) |

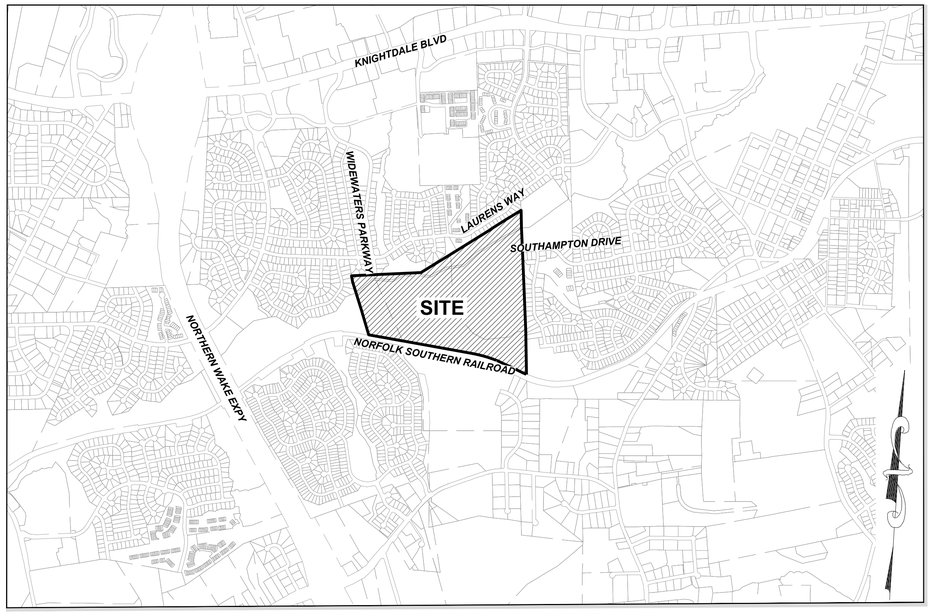
| IMPERVIOUS AREAS: | |
|---|---|
| PARKING PROVIDED: | 166 |
| ROADWAYS / PARKING: | 344,682 SF (7.91 AC) |
| SIDEWALKS: | 93,401 SF (2.14 AC) |
| 20' LOTS (1,400 SF/UNIT): (AVG) | 86,800 SF (1.99 AC) |
| 30' LOTS (1,500 SF/UNIT): (AVG) | 112,500 SF (2.58 AC) |
| 60' LOTS (2,100 SF/UNIT): (AVG) | 96,600 SF (2.22 AC) |
| 70' LOTS (2,100 SF/UNIT): (AVG) | 46,200 SF (1.06 AC) |
| BUILDING UNIT (7,800 SF/12 UNITS): (AVG) | 44,200 SF (1.01 AC) |
| TOTAL ON-SITE IMPERVIOUS AREA: | 824,383 SF (18.9 AC) |
| TOTAL ON-SITE IMPERVIOUS PERCENT: | 18.55% |

| UTILITY DEMANDS: | |
|---|---|
| SEWAGE USAGE: | 59,625 GPD<br>75 GPD / BEDROOM X 3 BEDROOM X 265 UNITS |
| WATER USAGE: | 66,250 GPD<br>250 GPD / RESIDENTIAL UNIT X 265 UNITS |

| STREET TYPE SUMMARY: | |
|---|---|
| 54' ROW SECTION: | 6,176 LF |
| 64' ROW SECTION: | 2,510 LF |
| CONNECTIVITY INDEX: | 1.52 |

| CONCRETE/ASPHALT: | | |
|---|---|---|
| PUBLIC STREETS | 9,166 | LF |
| PRIVATE STREET | 852 | LF |
| PRIVATE ALLEYS | 5,693 | LF |
| PUBLIC 5' SIDEWALK | 17,392 | LF |
| 30" CURB & GUTTER | 18,655 | LF |
| GREENWAY | 1,358 | LF |
| PUBLIC STORMDRAIN | 12,082 | LF |

811 Know what's below. Call before you dig.




**VICINITY MAP**

1" = 1200'

### OWNER:

ELLIS DEVELOPMENTS NC, LLC
C/O STRONG ROCK DEVELOPMENT COMPANY
8362 SIX FORKS RD.
SUITE 104 RALEIGH, NC 27615
919-770-4174 (P)
CONTACT: JOSH LAMBERT
josh@strongrockdev.com

### SURVEYOR:

TAYLOR LAND CONSULTANTS
5448 APEX PEAKWAY
APEX, NC 27502
919-801-1104 (O)
919-337-7998 (M)
CONTACT: JEREMY TAYLOR, PLS
jeremy@taylorlc.com

### ENVIRONMENTAL:

SAGE ECOLOGICAL SERVICES
3707 SWIFT DRIVE
RALEIGH, NORTH CAROLINA, 27606
919-559-1537
CONTACT: SEAN CLARK
sclark@sageecological.com

### CIVIL ENGINEERING:

STRONG ROCK ENGINEERING GROUP, PLLC
PO BOX 55992
RALEIGH, NC 27624
COMPANY LICENSE #: P-2166
CONTACT: JOSH LAMBERT, PE
984.200.1932 (O)
information@strongrockengineering.com

**PUBLIC INFRASTRUCTURE QUANTITIES TABLE**

| SEWER: | | |
|---|---|---|
| MANHOLES | 65 | EA |
| 8" PUBLIC SANITARY SEWER | 8,816 | LF |
| 12" PUBLIC SANITARY SEWER | 736 | LF |
| SEWER SERVICES | 240 | EA |
| **WATER:** | | |
| 8" DIP W/L | 5,844 | LF |
| 12" DIP W/L | 2,989 | LF |
| WATER SERVICES | 240 | EA |
| FIRE HYDRANT ASSEMBLIES | 26 | EA |
| 8" GATE VALVES | 21 | EA |
| 12" GATE VALVES | 11 | EA |
| 8" X 8" TEES | 5 | EA |
| 12" X 12" TEES | 4 | EA |
| 12" X 12" CROSS | 1 | EA |
| BEND 23° | 2 | EA |
| 2" BLOW OFF ASSEMBLIES | 3 | EA |
| 8" BLOW OFF ASSEMBLIES | 3 | EA |
| **STORM DRAINAGE:** | | |
| CATCH BASINS | 88 | EA |
| FLARED END SECTIONS | 11 | EA |
| DROP INLETS | 55 | EA |
| STORM DRAIN MANHOLES | 1 | EA |
| OUTLET CONTROL STRUCTURES | 5 | EA |
| 15" STORMWATER PIPE | 4,029 | LF |
| 18" STORMWATER PIPE | 4,418 | LF |
| 24" STORMWATER PIPE | 2,094 | LF |
| 30" STORMWATER PIPE | 944 | LF |
| 36" STORMWATER PIPE | 597 | LF |

### SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #S-5067

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK. CITY OF RALEIGH PUBLIC. CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #W-3942

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

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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.

**A. TOWN APPROVED STANDARDS SHALL CONTROL.** IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THESE CONSTRUCTION DRAWINGS AND THE TOWN OF KNIGHTDALE'S APPROVED STANDARDS FOR THIS PROJECT, THE APPROVED STANDARDS SHALL CONTROL. TOWN OF KNIGHTDALE APPROVED STANDARDS SHALL MEAN ALL DEVELOPMENT DOCUMENTS NECESSARY FOR APPROVAL FOR THE PROPERTY INCLUDING, BUT NOT LIMITED TO, ANY SPECIAL USE PERMIT, SUBDIVISION PLAN, SITE PLAN, SUBDIVISION PLAT(S), PHASING SCHEDULE, DEVELOPMENT AGREEMENT, UTILITY ALLOCATION AGREEMENT, ANNEXATION AGREEMENT, THE TOWN OF KNIGHTDALE STANDARD SPECIFICATION AND DETAILS MANUAL AND APPLICABLE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE.

**B. TOWN CERTIFICATION.** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

**C. PROFESSIONAL DESIGN ENGINEER CERTIFICATION.** THESE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND WITH THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.
I, _____, PE, CERTIFY THAT THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE HAVE BEEN THOROUGHLY CHECKED AND FOUND TO BE APPLICABLE TO THIS PROJECT. ALL EXCEPTIONS TO THE APPLICABLE TOWN STANDARDS HAVE BEEN PREVIOUSLY APPROVED BY THE TOWN OF KNIGHTDALE AND SAID EXCEPTIONS ARE SHOWN ON SHEET(S)_____OF THESE DRAWINGS.
SEAL BY: _____, PE
DATE: _____

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**COVER SHEET**

DRAWING SHEET

**C-1.0**

**01 OF 112**

## GENERAL CONSTRUCTION NOTES:

1. SEE GENERAL NOTES ON SHEET C-5.0.
2. WITHIN ALL NOTES, THE TERM CONTRACTOR WILL MEAN THE GENERAL CONTRACTOR AND ANY SUBCONTRACTORS OR VENDORS PERFORMING WORK ON THE PROJECT.
3. ANY CONTRACTOR SUBMITTING A BID FOR THIS PROJECT SHALL MAKE A SITE VISIT PRIOR TO SUBMITTING BID.
4. BOUNDARY DATA PERFORMED BY TAYLOR LAND CONSULTANTS. SEE SURVEY FOR BENCHMARK & TBM INFORMATION. SURVEY IS REFERENCED TO NC GRID NAD 83. REFER TO EXISTING CONDITIONS PLAN.
5. ANY RELOCATION OF BENCHMARKS SHALL BE PERFORMED BY A NC LICENSED SURVEYOR.
6. ALL WORK, CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITES DEPARTMENT (CORPUD), AND/OR NCDOT STANDARDS AND SPECIFICATIONS, LATEST EDITION.
7. ALL WORK, CONSTRUCTION AND MATERIALS WITHIN NCDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE 2018 NCDOT STANDARDS SPECIFICATIONS FOR ROADS AND STRUCTURES.
8. 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, AND/OR FLAGMEN. ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
9. 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, WATER/SEWER PERMITS, ETC.
10. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CONTACT THE NC ONE CALL CENTER AT LEAST 72 HOURS AND UP TO 12 DAYS PRIOR TO DIGGING @ 1.800.632.4949. 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.
11. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO PUBLICLY OWNED 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.
13. ANY DAMAGE DONE TO PRIVATE PROPERTY OWNERS SIGNS, MAILBOX, DRIVEWAY CULVERTS, LANDSCAPING OR OTHER PROPERTY SHALL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO OWNER.
14. CONTRACTOR IS RESPONSIBLE FOR FENCING AND SECURITY OF HIS LAYDOWN AND STORAGE AREA.
15. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
16. CONTRACTOR SHALL KEEP ALL ROADS FREE OF DIRT AND DEBRIS AT ALL TIMES.
17. CONTRACTOR SHALL PROTECT EXISTING PAVEMENTS AND UTILITIES FROM HEAVY EARTH MOVING EQUIPMENT. PROVIDE TRAFFIC CONTROL AND ADEQUATE PROTECTION METHODS AT ALL EQUIPMENT CROSSINGS.
18. ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ALL STICKS, ROCKS, AND CLUMPS OF MUD. ALL ROCKS GREATER THAN 3" SHALL BE REMOVED FROM ALL BACKFILL MATERIAL.
19. CONTRACTOR TO COORDINATE WITH ONSLOW WATER AND SEWER AUTHORITY 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. ALL PAVEMENT SAW CUTS SHALL BE NEAT, STRAIGHT AND FULL DEPTH.
21. ALL RIP-RAP IS TO BE INSTALLED WITH NON-WOVEN FILTER FABRIC BENEATH (MIRAFI 14ON OR APPROVED EQUAL).
22. 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.
23. PRIOR TO PLACING CABC STONE BASE, THE CONTRACTOR SHOULD NOTIFY THE GEOTECHNICAL ENGINEER TO INSPECT THE PROOF ROLL OF THE SUBGRADE. ANY STONE PLACED WITHOUT PRIOR APPROVAL WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO RE-CONSTRUCTION IF SUBGRADE DOES NOT MEET TOWN OF KNIGHTDALE AND/OR NCDOT STANDARDS & SPECIFICATIONS.
24. ALL UTILITY SERVICES, (POWER, TELEPHONE, CABLE, ETC.) ARE PROPOSED TO BE UNDERGROUND. THE CONTRACTOR SHALL COORDINATE WITH THE PRIVATE UTILITY SERVICE COMPANIES FOR ANY REQUIRED CONDUITS OR POINT OF CONTACT CONDITIONS.
25. ALL PUBLIC UTILITIES THAT REQUIRE AN ENGINEERING CERTIFICATION MUST BE INSPECTED BY A PROFESSIONAL ENGINEER ON A PERIODIC BASIS. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER WHEN INSTALLING UTILITIES FOR PERIODIC INSPECTIONS. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AT THE TIME OF PRESSURE TESTING AND WATER LINE DISINFECTION. THE CONTRACTOR SHALL SUPPLY THE PROJECT ENGINEER PRESSURE TEST AND WATER SAMPLING RESULTS.
26. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12 INCHES, WHICH EVER IS LESS, CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
27. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT PRICE THE REMOVAL AND DISPOSAL, TO AN APPROVED NCDENR LOCATION, OF ANY EXCESS TOPSOIL OR UNCLASSIFIED EXCAVATION HE DETERMINES IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATION. ALTERNATIVELY, A SUITABLE ON-SITE AREA MAY BE USED UPON APPROVAL BY THE OWNER, THE E.O.R AND/OR AHJ.
28. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKEOUT ASSOCIATED WITH THE PROJECT. PREPARATION OF THE NECESSARY/REQUIRED AS-BUILT PLANS TO BE SUBMITTED TO TOWN OF KNIGHTDALE, WAKE COUNTY AND/OR CORPUD AND/OR ALL OTHER INFORMATION REQUIRED IN CONNECTION WITH RELEASE OF BONDS.
29. THE CONTRACTOR SHALL INCLUDE IN THE PRICE, ANY AND ALL COSTS ASSOCIATED WITH PROVIDING A PROFESSIONAL ENGINEER ON SITE IF REQUIRED, DURING THE CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES, UNDERGROUND UTILITIES, ETC. AS REQUIRED FOR AS-BUILT CERTIFICATION.
30. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. NCDOT, TOWN OF KNIGHTDALE, WAKE COUNTY, CORPUD & ENGINEER OF RECORD ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.
31. TESTING BY SITE DEVELOPER: SITE DEVELOPER SHALL EMPLOY AT HIS EXPENSE AN OUTSIDE INDEPENDENT SOIL TESTING SERVICE (APPROVED BY THE OWNER) TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. COPIES OF RESULTS OF TESTS SHALL BE SUBMITTED BY THE TESTING SERVICE DIRECTLY TO THE CONTRACTOR, THE OWNER, AND THE APPLICABLE APPROVING AGENCY. --THE TESTING SERVICE WILL CLASSIFY PROPOSED ON-SITE AND TO BORROW SOILS TO VERIFY THAT SOILS COMPLY WITH SPECIFIED REQUIREMENTS AND TO PERFORM REQUIRED FIELD AND LABORATORY TESTING. (MINIMUM REQUIRED SOIL BEARING CAPACITY IS NOTED ON THE STRUCTURAL DRAWINGS). -IN PAVED AND BUILDING SLAB AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 2000 SQUARE FEET OF FILL IN EACH COMPACTED FILL LAYER. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION. --IN FOUNDATION WALL AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH OF FILL IN EACH COMPACTED FILL LAYER, WITH NO LESS THAN TWO TESTS ALONG A WALL FACE. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION.
32. COMPACTION: COMPACT EACH LAYER OF BACKFILL AND FILL SOIL MATERIALS AND THE TOP 12" OF SUBGRADE IN CUT AREAS TO 98% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T99 FOR STRUCTURES, SLABS, AND PAVEMENTS AND 95% OF MAXIMUM DENSITY FOR EMBANKMENTS OR UNPAVED AREAS. MAX LIFT THICKNESS FOR FILL AREAS IS 8 INCHES.
33. DESIGN/FIELD CONDITIONS QUITE EASILY MAY VARY FROM THAT REPRESENTED IN THE INITIAL SOILS REPORT AND/OR TOPOGRAPHICAL REPORT. ISOLATED AREAS MAY SHOW UP WEAK AND ADVERSE SOILS OR GROUNDWATER CONDITIONS MAY BE DISCOVERED THAT WERE NOT REVEALED DURING THE INITIAL SOILS INVESTIGATION. THEREFORE, THE OWNER/CLIENT IS TO BE AWARE THAT ENGINEER OF RECORD WILL NOT AND CANNOT BE HELD RESPONSIBLE FOR ANY FAILURES TO EITHER A STREET OR PARKING LOT PAVEMENT DESIGN UNLESS WE CAN BE FULLY AND TOTALLY INVOLVED IN THE CONSTRUCTION PROCESS WHICH MAY INCLUDE, BUT MAY NOT NECESSARILY BE LIMITED TO, TESTING SUBGRADE AND BASE DENSITY, ENGAGING THE GEOTECHNICAL ENGINEER FOR THE EVALUATION OF THE SUBGRADE AND FOR THE OBSERVATION OF PROOF ROLLING SUBGRADE AND BASE AT VARIOUS STEPS OF CONSTRUCTION, OPPORTUNITY FOR THE DESIGN ENGINEER TO CALL IN A GEOTECHNICAL ENGINEER FOR CONSULTATION AND ADVICE, ETC. - STEPS WHICH TAKEN ALTOGETHER WITH THE INITIAL DESIGN SHOWN ON THE PLANS, CONSTITUTE THE COMPLETE DESIGN OF THE ROAD, STREET OF PARKING AREA (PRIVATE OR PUBLIC). THE DESIGN ENGINEER MUST BE GIVEN THE FULL LATITUDE AND OPPORTUNITY TO COMPLETE THE DESIGN BY FULLY PARTICIPATING IN THE CONSTRUCTION PROCESS. PLAN DESIGN IS A SMALL PORTION OF THE DESIGN AND CANNOT BE SEPARATED FROM THE CONSTRUCTION PROCESS IF THE OWNER'S/CLIENT'S DESIRE IS TO HAVE THE DESIGN ENGINEER STAND BEHIND THE COMPLETED DESIGNED PROJECT.
34. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING PADS.
35. THE SITE PREVIOUSLY CONTAINED RESIDENTIAL / FARM STRUCTURES CONTRACTOR RESPONSIBLE FOR REMOVAL OF ANY WELLS FOUNDATIONS AND/OR SEPTIC SYSTEMS PER NCDENR REQUIREMENTS.
36. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH TOWN OF KNIGHTDALE AND CORPUD PRIOR TO BEGINNING CONSTRUCTION.
37. NO BUILDING OR PROPERTY WITHIN OR ADJACENT TO THIS PROJECT LOCATION ARE ON THE NATIONAL REGISTER OF HISTORIC PLACES, ACCORDING TO NORTH CAROLINA HISTORIC PRESERVATION OFFICE INTERACTIVE MAP.

## SCM INSPECTION AND DOCUMENTATION NOTES:

WHEN SCHEDULING INSPECTIONS, PLEASE CALL THE PUBLIC WORKS ADMINISTRATIVE ASSISTANT AT (919) 217-2250.
PLEASE NOTE: THE FOLLOWING PERSONNEL MUST BE PRESENT AT ALL INSPECTIONS:
1) SITE SUPERVISOR
2) GEOTECH
3) AS-BUILT CERTIFYING ENGINEER OR SOMEONE UNDER THEIR SUPERVISION
THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SCM WITH DAM:
1) KEY TRENCH EXCAVATION
2) PRINCIPAL SPILLWAY PIPE AND ASSOCIATED COMPONENTS:
a. CONCRETE CRADLE
b. ANTI-SEEP COLLAR
c. SEEPAGE DIAPHRAGM
3) OUTLET STRUCTURE
4) ANTI-FLOTATION BALLAST
5) ANY SITE-CONSTRUCTED REINFORCED CONCRETE STRUCTURES
THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SAND FILTERS OR BIORETENTION DEVICES
a. SUBGRADE OR CONSTRUCTED FOUNDATION
b. OUTLET OR RISER IN COMBINATION WITH CONNECTING UNDERDRAINS
c. FILTER MEDIA
d. DAM ITEMS ON PREVIOUS LIST IF APPLICABLE

GEOTECHNICAL TESTING AND CERTIFICAITON
ALL REPORTS ARE TO BE SUBMITTED WITHIN 30-DAYS OF DAM COMPLETION
REQUIRED GEOTECHNICAL RECORDS INCLUDE:
1) DAM EMBANKMENT MATERIAL COMPOSITION AND DENSITY TESTING
2) MAP THAT LABELS ALL POINTS WHERE THE DAM AND DAM FOUNDATION AREAS WERE TESTED
3) DIGITAL PHOTOS SHOWING THE DAM FOUNDATION AREAS, THE RISER, THE PRINCLIPLE SPILLWAY PIPE, THE CONCRETE CRADLE, THE SEEPAGE DIAPHRAM, RELIEF DRAINS, ETC., BEING INSTALLED.

**A. TOWN CERTIFICATION** . THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## ZONING CONDITIONS:

A. TOWNHOMES SHALL BE TWO-STORY AND THREE-STORY HOMES WITH A MINIMUM WIDTH OF 20-FEET WIDE AND HAVE A MINIMUM HEATED AREA OF 1,400 SQUARE FEET. THREE-STORY TOWNHOMES WILL COMPRISE AT LEAST 30% OF THE PRODUCT MIX.

B. NEO TRADITIONAL SINGLE FAMILY DETACHED HOMES SHALL BE REAR LOADED TWO-STORY HOMES BUILT ON LOTS LESS THAN 60 FEET WIDE WITH A MINIMUM HEATED AREA OF 1,500 SQUARE FEET.

C. TRADITIONAL SINGLE FAMILY DETACHED HOMES SHALL BE TWO-STORY HOMES BUILT ON LOTS AT LEAST 60 FEET WIDE WITH A MINIMUM HEATED AREA OF 2,100 SQUARE FEET.

D. ALL HOMES WILL EITHER CONSIST OF A SINGLE MATERIAL OF BRICK OR STONE OR WILL HAVE A COMBINATION OF TWO OR MORE OF THE FOLLOWING MATERIALS ON THE FRONT FAÇADE (NOT INCLUDING FOUNDATIONS): STONE, BRICK, LAP SIDING, FIBER CEMENT SIDING, SHAKES, OR BOARD AND BATTEN SIDING, WITH SIDE AND REAR FACADES OF FIBER CEMENT SIDING. WHEN TWO MATERIALS ARE USED, THE MATERIALS SHALL BE DIFFERENT BUT COMPLIMENTARY COLORS. VINYL MAY ONLY BE USED OF SOFFITS, FASCIA, AND CORNER BOUNDS.

E. ALL SINGLE FAMILY DETACHED HOMES WILL HAVE FRONT PORCHES WITH A MINIMUM DEPTH OF FIVE FEET. TOWNHOMES WILL HAVE RECESSED FRONT PORCHES WITH A MINIMUM DEPTH OF FIVE FEET AND/OR BALCONIES.

F. ALL TRADITIONAL SINGLE FAMILY DETACHED HOMES WILL HAVE A REAR PATIO OR DECKS A MINIMUM OF 10-FEET X 10-FEET. ALL SINGLE-FAMILY RANCH DETACHED HOMES WILL HAVE A MINIMUM 6-FOOT X 10-FOOT COVERED PATIO.

G. MAIN ROOF PITCHES (EXCLUDING PORCHES) FRONTING THE STREET WILL BE AT LEAST 7:12, WITH THE EXCEPTION OF RANCH HOMES IN WHICH 6:12 SHALL BE ALLOWED.

H. FOR EVERY 30-FEET (OR FRACTION) OF CONTINUOUS SIDE ELEVATION (CALCULATED ON A PER FLOOR BASIS), THERE SHALL BE ONE WINDOW OR DOOR ADDED TO THE SIDE ELEVATIONS. ANY SIDING BREAK ON THE SIDE OF THE HOME, SUCH AS A FIREPLACE, SIDE PORCH, OR WALL OFFSETS MAY BE USED AS AN ALTERNATE TO WINDOWS.

I. THERE SHALL BE A MINIMUM 12-INCH OVERHANG ON EVERY GABLE END FOR EVERY HOME.

J. GARAGES ON ALL NEO TRADITIONAL SINGLE FAMILY DETACHED HOMES AND TOWNHOMES SHALL BE ALLEY FED.

K. ALL FRONT-LOADED GARAGE DOORS SHALL HAVE GLASS WINDOWS AND HARDWARE.

L. ALL SINGLE FAMILY DETACHED HOMES SHALL BE RAISED FROM THE FINISHED GRADE A MINIMUM OF 18-INCHES AND SHALL HAVE STEM WALL OR RAISED SLAB FOUNDATIONS THAT SHALL BE COVERED ON ALL SIDES WITH BRICK OR STONE. AREAS UNDER PORCHES MAY BE ENCLOSED WITH LATTICE.

M. ALL SINGLE FAMILY ATTACHED HOMES SHALL BE RAISED FROM THE FINISHED GRADE A MINIMUM OF 12-INCHES AND SHALL HAVE STEM WALL OR RAISED SLAB FOUNDATIONS THAT SHALL BE COVERED ON ALL SIDES WITH BRICK OR STONE. AREAS UNDER PORCHES MAY BE ENCLOSED WITH LATTICE.

N. ANY SINGLE-FAMILY HOMES WITH A CRAWL SPACE SHALL BE WRAPPED IN BRICK, OR STONE ON ALL SIDES AND 18-INCH EXPOSED FOUNDATION.

O. FOR FRONT LOAD SINGLE FAMILY DETACHED HOMES, NO MORE THAN 10% CAN HAVE GARAGE DOORS THAT EXCEED 45% OF THE OVERALL WIDTH OF THE HOUSE, AND IN NO CASES CAN THE GARAGE DOOR EXCEED 48% OF THE OVERALL WIDTH OF THE HOUSE. SPLIT BAY DOORS SHALL BE AN OPTION.

P. ALL HOMES SHALL HAVE FRONT DOOR GLASS INSERTS.

Q. GARAGES FOR LOTS THAT ARE AT LEAST 60-FEET WIDE WILL NOT PROTRUDE MORE THAN SIX-FEET FROM THE FRONT PORCH OR STOOP AND ALL GARAGE DOORS SHALL BE CARRIAGE STYLE WITH WINDOW INSERTS AND HARDWARE.

R. THE COMMUNITY SHALL INCLUDE HOMES WITH MORE THAN ONE ELEVATION TYPE.

S. AT LEAST 50% OF THE SINGLE-FAMILY DETACHED HOMES WILL HAVE FRONT PORCHES THAT EXTEND THE WIDTH OF THE FRONT ELEVATION OF THE HOME EXCLUSIVE OF THE GARAGE.

5. APPLICANT WILL COMMIT TO ADDITIONAL TREATMENT OF THE CROSSWALK AT THE MINGO CREEK GREENWAY AND WIDEWATERS PARKWAY. THIS MAY ONE OF THE FOLLOWING TREATMENTS: STAMPED CONCRETE, ARTISTIC PAINTED CROSSWALK, OR A RAISED CROSSWALK. ADDITIONAL LANDSCAPING WILL BE PROVIDED IN THE PEDESTRIAN REFUGE TO PROVIDE ADDITIONAL PEDESTRIAN PROTECTION.

6. APPLICANT WILL PHASE THE DEVELOPMENT SUCH THAT WIDEWATERS PARKWAY IS OPENED AS PART OF PHASE 1.

7. THE SUBMITTED PLANNED UNIT DEVELOPMENT DOCUMENT (EXHIBIT A) AND SUBMITTED SITE PLAN (EXHIBIT B) WILL SERVE AS THE SITE-SPECIFIC DEVELOPMENT PLAN. HOWEVER, THE APPLICANT MUST SUBMIT CONSTRUCTION DRAWINGS TO THE TOWN FOR APPROVAL THAT ARE IN CONFORMANCE WITH THE APPROVED CONDITIONS OF THE GR3-PUD ZONING DISTRICT, MASTER PLAN COMMENTS, UNIFIED DEVELOPMENT ORDINANCE, AND COMMENTS FROM THE MAY 12, 2022 DRC MEETING.

## GENERAL ABBREVIATIONS:

| IDENTIFIER | DESCRIPTION |
|---|---|
| & | AND |
| C | CENTERLINE |
| Ø | DIAMETER OR ROUND |
| P | PROPERTY LINE |
| ABC | AGGREGATE BASE ASPH ASPHALT |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AVE | AVENUE |
| BLVD | BOULEVARD |
| BLDG | BUILDING |
| BOC | BACK OF CURB |
| BW | BOTTOM OF WALL |
| CB | CATCH BASIN |
| CI | CURB INLET |
| CIP | CAST IRON PIPE |
| CLS | CLASS |
| CJ | CONTROL JOINT |
| CO | CLEANOUT |
| CONC | CONCRETE |
| DI | DROP INLET |
| DIA | DIAMETER |
| DIP | DUCTILE IRON PIPE |
| DOM | DOMESTIC |
| DR | DRIVE |
| (XX) | EXISTING ELEVATION |
| E | EAST, EASTING |
| EL | ELEVATION |
| EJ | EXPANSION JOINT |
| EOP | EDGE OF PAVEMENT |
| E.O.R | ENGINEER OF RECORD |
| EX | EXISTING |
| EVAP | EVAPORATIVE |
| FDC | FIRE DEPARTMENT CONNECTION |
| FES | FLARED END SECTION |
| FFE | FINISHED FLOOR ELEVATION |
| FG | FINISHED GRADE |
| FHA | FIRE HYDRANT ASSEMBLY |
| FL | FLOW LINE |
| FT | FOOT OR FEET |
| G | GAS |
| GALV | GALVANIZED |
| GB | GRADE BREAK |
| GE | GENERAL ELECTRIC |
| GR | GRADE |
| HDPE | HIGH DENSITY POLYETHYLENE |
| HORIZ | HORIZONTAL |
| HOV | HIGH OCCUPANCY VEHICLE |
| HP | HIGH POINT |
| IAW | IN ACCORDANCE WITH |
| I.H. | INTERSTATE HIGHWAY |
| INV | INVERT |

## GENERAL ABBREVIATIONS:

| IDENTIFIER | DESCRIPTION |
|---|---|
| LEN | LENGTH |
| LEV | LOW EMISSION VEHICLE |
| LF | LINEAR FEET |
| LP | LOW POINT |
| MAX | MAXIMUM |
| MH | MANHOLE |
| MIN | MINIMUM |
| N | NORTH, NORTHING |
| NCDENR | NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES |
| NCDOT | NORTH CAROLINA DEPARTMENT OF TRANSPORTATION |
| NTS | NOT TO SCALE |
| OH | OVERHEAD |
| OCB | OFF-SET CATCH BASIN |
| PCC | PORTLAND CEMENT CONCRETE |
| PE | POLYETHYLENE |
| PKWY | PARKWAY |
| POC | POINT OF CONNECTION |
| PVC | POLYVINYL CHLORIDE |
| R | RADIUS |
| RCP | REINFORCED CONCRETE PIPE |
| R.O.W | RIGHT OF WAY |
| RPDA | REDUCED PRESSURE DETECTOR ASSEMBLY |
| RPZ | REDUCED PRESSURE ZONE |
| S | SOUTH |
| SD | STORM DRAIN |
| SDMH | STORM DRAIN MANHOLE |
| SDE | SIGHT DISTANCE EASEMENT |
| SSMH | SANITARY SEWER MANHOLE |
| SS | SANITARY SEWER |
| STA | STATION |
| STD | STANDARD |
| ST.STL | STAINLESS STEEL |
| SWPPP | STORMWATER POLLUTION PREVENTION PLAN |
| TB | THRUST BLOCKING |
| TC/TOC | TOP OF CURB |
| TD | TEMPORARY DIVERSION |
| TH | TEST HEADER |
| TOP | TOP OF PIPE |
| TP | TOP OF PAD |
| TYP | TYPICAL |
| TW | TOP OF WALL |
| UG | UNDERGROUND |
| VEG | VEGETATED |
| VERT | VERTICAL |
| W | WEST |
| W/ | WITH |
| W/O | WITHOUT |
| YI | YARD INLET |

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

SEE SCM DETAIL SHEETS (105 - D-1.2 THROUGH 107 - D-1.4) FOR SCM DETAILS AND NOTES

| BY | DATE | REVISIONS | No. |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN | DESIGNED BY | JWL | DRAWN BY | SRG | CHECKED BY | JWL |
|---|---|---|---|---|---|---|---|---|---|

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**CIVIL NOTES**

DRAWING SHEET
**C-2.0**

PROGRESS PLOT DATE: 1/16/2024

TYBOROWSKI, PIOTR
PIN: 1744829588
D.B. 017614, PG. 942
ZONING: GR-8 RESIDENTIAL

GUERRERO-PEREZ, ENCARNACION
HERNANDEZ, YANITZA E ROMER
PIN: 1744829524
D.B. 014379, PG. 1325
ZONING: GR-8 RESIDENTIAL

ROMAH, BOM KPA, HVAN
PIN: 1744828551
D.B. 013010, PG. 1281
ZONING: GR-8 RESIDENTIAL

RAMIREZ, JOSE ALEJANDRO
RAMIREZ, MARIBEL
PIN: 1744827485
D.B. 017498, PG. 2043
ZONING: GR-8 RESIDENTIAL

WIDEWATERS VILLAGE
COMMUNITY ASSN INC
PIN: 1744825350
D.B. 012834, PG. 1631
ZONING: GR-8 RESIDENTIAL

HUGHES, LINDA K
PIN: 1744920695
D.B. 10935, PG. 2629
ZONING: GR-8 RESIDENTIAL

YIZNITSKY, GEORGE PAUL V
PIN: 1744920641
D.B. 009460, PG. 789
ZONING: GR-8 RESIDENTIAL

LUCKY HOMES LLC
PIN: 1744922702
D.B. 015470, PG. 1633
ZONING: GR-8 RESIDENTIAL

EVANS, TESHENA M EVANS,
RAYMOND L
PIN: 1744921659
D.B. 008483, PG. 2594
ZONING: GR-8 RESIDENTIAL

VAN ARKEL, JACY PAIGE
PIN: 1744922766
D.B. 016744, PG. 2781
ZONING: GR-8 RESIDENTIAL

KNIGHT, DANIEL W JR
KNIGHT, CYNTHIA T
PIN: 1744923729
D.B. 008484, PG. 1929
ZONING: GR-8 RESIDENTIAL

VALENTINE, KELLY A
PIN: 1744923883
D.B. 016953, PG. 348
ZONING: GR-8 RESIDENTIAL

ARGUETA, MARIA
ALVARADO
PIN: 1744925901
D.B. 017348, PG.0371
ZONING: GR-8 RESIDENTIAL

FISSE, TAYLOR REES, BRYAN PAUL
PIN: 1744924847
D.B. 016915, PG. 852
ZONING: GR-8 RESIDENTIAL

PROGRESS RESIDENTIAL
BORROWER 3 LLC
PIN: 1744710836
D.B. 017050, PG. 2629
ZONING: GR-8 RESIDENTIAL

NGUYEN, GINGER NICOLE
RICHARDS, CLARENCE N
PIN: 1744711897
D.B. 016474, PG. 2202
ZONING: GR-8 RESIDENTIAL

HAINES, KEVIN JAY HAINES,
MIMOSA C
PIN: 1744619815
D.B. 011658, PG. 182
ZONING: GR-8 RESIDENTIAL

TOPPS, SETH TOPPS, HEATHER
PIN: 1744618804
D.B. 017162, PG. 1823
ZONING: GR-8 RESIDENTIAL

HOWARD, INGRID M
PIN: 1744616769
D.B. 0-E, PG. 847
ZONING: GR-8 RESIDENTIAL

NOYES, SHAWN NOYES, DIANA
PIN: 1744616783
D.B. 015243, PG. 1161
ZONING: GR-8 RESIDENTIAL

THE LANDINGS AT
PLANTERS WALK, PH. II B
B.M. 1988, PG. 1422

WRIGHT, ADAM WRIGHT, KARA
PIN: 1744616684
D.B. 016167, PG. 1347
ZONING: GR-8 RESIDENTIAL

THE LANDINGS AT
PLANTERS WALK, PH. II C
B.M. 1989, PG. 850

LOPEZ, MARK LOPEZ,
THERESA L
PIN: 1744616596
D.B. 005729, PG. 118
ZONING: GR-8 RESIDENTIAL

THE TOWN OF KNIGHTDALE
D.B. 6389, PG. 492
B.M. 1994, PG. 1087, TRACT E

CHURCHILL COMMUNITY ASSN INC
PIN: 1744606258
D.B. 13266, PG. 1372
ZONING: GR-8 RESIDENTIAL

CHURCHILL COMMUNITY ASSN INC
PIN: 1744705462
D.B. 13266, PG. 1376
ZONING: GR-8 RESIDENTIAL

MARLOWE & MOYC LLC
PIN: 1743895866
D.B. 17271, PG. 639
ZONING: GR-8 RESIDENTIAL

LARA-CUBAS, MARLON
YUNIOR ELIAS, LESLIE C
PIN: 1744907789
D.B. 016543, PG. 1012
ZONING: GR-8 RESIDENTIAL

N/F
BROOKEFIELD STATION
DEVELOPMENT, LLC
B.M. 1997, PG. 1014, TRACT 2B
D.B. 11783, PG. 1

PATTERSON, STEPHANIE KRISTINE
PIN: 1744907962
D.B. 015057, PG. 1772
ZONING: GR-8 RESIDENTIAL

STEVENS, JAMES E STEVENS,
SHANNAN COLLEEN
PIN: 1744907962
D.B. 011366, PG. 2542
ZONING: GR-8 RESIDENTIAL

SUITE, TYLER M SUITE, DANIELLE B
PIN: 1744917106
D.B. 015658, PG. 2335
ZONING: GR-8 RESIDENTIAL

CROSBY, NEAL
PIN: 1744916294
D.B. 016666, PG. 1950
ZONING: GR-8 RESIDENTIAL

THOMPSON, HANNAH
PIN: 1744916392
D.B.016110, PG. 182
ZONING: GR-8 RESIDENTIAL

PAMELA LEIGH FAISON HALE
& TERESA ANN FAISON BREWER
PIN: 1744910921
B.M. 1981. PG. 547
D.B. 16323, PG. 2009

DEBORAH JANE
& MELTON E TART JR
PIN: 1744811114
B.M. 1981. PG. 67
D.B. 1009, PG. 576

PAMELA LEIGH FAISON HALE
& TERESA ANN FAISON BREWER
PIN: 1744711175
B.M. 1981. PG. 547
D.B. 16323, PG. 2009

WIDEWATERS SUBDIVISION
PH. I B
LOTS 92 103, 125-131
B.M. 2003, PG. 2272

COMMON AREA
WIDEWATERS SUBDIVISION, PH. II
B.M. 2005, PG. 2011

OPEN SPACE
WIDEWATERS SUBDIVISION, PH. II
B.M. 2005, PG. 2011

TIMBER RIDGE SUB.
PH. III SEC. I
B.M. 1998, PG. 1451

TIMBER RIDGE SUB.
PH. III SEC. II
B.M. 1999, PG. 1769

THE TOWN OF KNIGHTDALE
D.B. 1876, PG. 67
PIN: 1744-92-7973

THE TOWN OF KNIGHTDALE
D.B. 8095, PG. 1115
PIN: 1754-02-0595

LEWIS LANDING
SUBDIVISION, PH. I
LOTS 1-12
B.M. 1999, PG. 1347

LEWIS LANDING
SUBDIVISION, PHASE 2
B.M. 2001, PG. 1390

LARSON, JOHN D JR EVERETT, TINA M
PIN: 1744926142
D.B. 016560, PG. 2110
ZONING: GR-8 RESIDENTIAL

TOWNE, CHARLTON C
TOWNE, ANNA M
PIN: 1744927033
D.B. 016921, PG. 349
ZONING: GR-8 RESIDENTIAL

LEWIS LANDING COMMUNITY
ASSOC INC
PIN: 1744916876
D.B. 009210, PG. 2584
ZONING: GR-8 RESIDENTIAL

UWANDJI, KISASE JEAN
PIN: 1744916782
D.B. 11144, PG. 750
ZONING: GR-8 RESIDENTIAL

JONES, LITISHA M
PIN: 1744916682
D.B. 010713, PG.02088
ZONING: GR-8 RESIDENTIAL

MURPHY, JENNIFER MURPHY, ERIC
PIN: 1744916584
D.B. 15030, PG. 644
ZONING: GR-8 RESIDENTIAL

HALL, BRUCE R II
PIN: 1744916497
D.B.017450, PG. 01256
ZONING: GR-8 RESIDENTIAL

RABON, PHILIP A RABON, NICHOLE N
PIN: 1744916399
D.B. 013291, PG. 2092
ZONING: GR-8 RESIDENTIAL

JERNIGAN, JOAN H
PIN: 1744917018
D.B. 010437, PG. 2060
ZONING: GR-8 RESIDENTIAL

ROBINSON, RENEE
PIN: 1744917020
D.B. 015150, PG. 2453
ZONING: GR-8 RESIDENTIAL

STEAMBOAT ST
CALAVARAS LN
JUMPIMG FROG LN
STERN WHEEL WAY
MINGOCREST DR
SULLEY CT
TORTOLA PL
VALLEY PARK DR
DELTA RIVER WAY
WIDEWATERS PARKWAY
LAURENS WAY
CLAY HILL DR
SUNDAY SILENCE DR
OLD ROSEBUD DR
UNBRIDLED DR
SOUTHAMPTON DRIVE
ST JOHNS ST
CARIBBEAN CT
BALLASTED DR
NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY

WETLAND WA-1
WETLAND WA-2
WETLAND WA-3
WETLAND WB
WETLAND WC
WETLAND WD
WETLAND WF
WETLAND WG-1
WETLAND WG-2
WETLAND WH-1
STREAM SA
STREAM SAA
STREAM SB
STREAM SC
STREAM SCA
STREAM SCB
STREAM SCD
STREAM SCE
STREAM SCF
STREAM SCG
STREAM SCH
STREAM SHA

100 YR FLOOD LINE
100YR FLOODWAY LINE
EXISTING STREAM BUFFER ZONE 1 (TYP.)
EXISTING STREAM BUFFER ZONE 2 (TYP.)
TOP OF BANKS
26' EDGE OF EXISTING PAVEMENT WIDTH
36' EDGE OF EXISTING PAVEMENT WIDTH
±10' ASPHALT PATH
±10' SOIL PATH
EXISTING POND
50' EXISTING BUFFER OF POND
CREEK CROSSES PROPERTY LINE (TYP.)
EX. CONCRETE MONUMENT
EX. 30' SANITARY SEWER AND GREENWAY EASEMENT
ELECTRIC EASEMENT
EX. 20' SANITARY SEWER EASEMENT

RIM: 222.22'
INV: 213.5' INV 36" RCP
INV: 213.7' INV 36" RCP
INV: 207.3' INV OUT 12" PVC
RIM: 216.65'
INV: 209.1' INV IN 10" PVC
INV: 207.4' INV IN 12" PVC
INV: 212.9' INV 36" RCP
INV: 212.8' INV 36" RCP
INV: 212.9' INV 36" RCP
RIM: 217.75'
INV: 212.4' INV IN 6" PVC
INV: 211.3' INV IN 12" PVC
INV: 213.5' INV OUT 12" PVC
RIM: 224.43'
INV: 213.3' INV IN 12" PVC
INV: 213.7' INV 36" PVC
RIM: 219.91'
INV: 209.9' INV OUT 12" PVC
INV: 209.3' INV IN 12" PVC
INV: 209.3' INV OUT 12" PVC
RIM: 247.14'

N 87°16'44" E 368.69'
N 87°16'44" E 797.99'
N 87°16'44" E 944.46'
N 58°26'14" E 395.82'
N 58°26'14" E 405.68'
N 57°25'28" E 299.11'
S 02°12'28" E 1,320.48'
S 02°12'28" E 1,225.11'
S 30°57'24" E 299.71'
S 38°19'58" E 305.38'
S 17°04'37" E 90.25'
N 17°04'37" W 422.39'
N 79°37'23" W 575.92'
N 79°37'23" W 1,079.25'
N 79°17'36" W 136.79'
N 66°00'17" W 56°33'06" W 226.49'
N 24°56'08" W 212.37'
N 40°17'15" W 500.00'
N 67°23'36" W 223.11'
S 84°17'29" W 397.39'
S 54°56'08" W 140.31'
S 30°30'31" W 151.43'
S 10°10'57" E 221.62'

GRAPHIC SCALE
200 0 100 200 400 800
( IN FEET )
1 inch = 200 ft.

CURVE TABLE

| CURVE | RADIUS | LENGTH | CHORD | BEARING |
|---|---|---|---|---|
| C1 | 3699.59' | 176.51' | 176.49' | N 64°48'33" W |
| C2 | 2064.68' | 395.00' | 394.40' | N 73°48'45" W |

## LEGEND:

- EXISTING ADJOINER PROPERTY LINE
- 10' CONTOUR
- 2' CONTOUR
- EXISTING OVERHEAD POWER
- EXISTING STREAM
- EXISTING STREAM BUFFER - ZONE 2
- EXISTING STREAM BUFFER - ZONE 1
- EXISTING POND
- EXISTING ELECTRIC EASEMENT
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER EASEMENT
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WETLAND

## GENERAL NOTES:

1. BOUNDARY TAKEN FROM THE SURVEY PREPARED BY TAYLOR LAND CONSULTANTS.
2. TOPOGRAPHIC INFORMATION TAKEN FROM THE SURVEY PREPARED BY TRIANGLE AERIAL SURVEYS LLP.
3. WETLAND AND STREAM DELINEATION BY SAGE ECOLOGICAL SERVICES, INC.
4. THE SUBJECT PROPERTY IS LOCATED IN ZONE X AE IN ACCORDANCE WITH FIRM MAP #3720174400J, EFFECTIVE ON MAY 2, 2006.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
STRONG ROCK ENGINEERING GROUP
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 | RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| | |
|---|---|
| STRONG ROCK PROJECT | |
| | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**OVERALL EXISTING CONDITIONS**

DRAWING SHEET
**C-3.0**

**03 OF 112**

PROGRESS PLOT DATE: 1/16/2024

DELTA RIVER WAY
LAURENS WAY
CLAY HILL DR
60' PUBLIC R/W
WIDEWATERS PARKWAY
60' PUBLIC R/W

PROGRESS RESIDENTIAL BORROWER 3 LLC
PIN: 1744710836
D.B. 017050, PG. 2629

HAINES, KEVIN JAY
HAINES, MIMOSA C
PIN: 1744619815
D.B. 011658, PG. 182

TOPPS, SETH TOPPS, HEATHER
PIN: 1744618804
D.B. 017162, PG. 1823

HOWARD, INGRID M
PIN: 1744616769
D.B. 0-E, PG. 847

NOYES, SHAWN
NOYES, DIANA
PIN: 1744616783
D.B. 015243, PG. 1161

WRIGHT, ADAM
WRIGHT, KARA
PIN: 1744616684
D.B. 016167, PG. 1347

LOPEZ, MARK LOPEZ, THERESA L
PIN: 1744616596
D.B. 005729, PG. 118

NGUYEN, GINGER NICOLE
RICHARDS, CLARENCE N
PIN: 1744711897
D.B. 016474, PG. 2202

WIDEWATERS VILLAGE COMMUNITY ASSN INC
PIN: 1744825350
D.B. 012834, PG. 1631

WIDEWATERS VILLAGE COMMUNITY ASSN INC
PIN: 1744717834
D.B. 012834, PG. 1631

WIDEWATERS SUBDIVISION
LOTS 47-62, 64-70
B.M. 2003, PG. 310

WIDEWATERS SUBDIVISION
PH. I B
LOTS 92 103, 125-131
B.M. 2003, PG. 2272

THE TOWN OF KNIGHTDALE
D.B. 6389, PG. 492
B.M. 1994, PG. 1087, TRACT E

PAMELA LEIGH FAISON HALE & TERESA ANN FAISON BREWE
PIN: 1744711175
B.M. 1981. PG. 547
D.B. 16323, PG. 2009

DEBORAH JANE & MELTON E TART JR
PIN: 1744811114
B.M. 1981. PG. 67
D.B. 1009, PG. 576

CHURCHILL COMMUNITY ASSN INC
PIN: 1744606258
D.B. 13266, PG. 1372

CHURCHILL COMMUNITY ASSN INC
PIN: 1744705462
D.B. 13266, PG. 1376

MARLOWE & MOYE LLC
PIN: 1743895866
D.B. 017271, PG. 639

FEATURE A
WOOD BRIDGE CREEK
FEATURE D
FEATURE E
FEATURE F
FEATURE G
FEATURE H
FEATURE HA
WETLAND WA-3
WETLAND WD
WETLAND WF
WETLAND WG-1
WETLAND WG-2

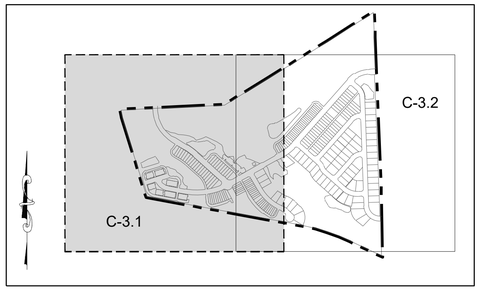
368.69' N 87°16'44" E
797.99' N 87°16'44" E
N 58°20'14" E 585.82'
N 09°43'09" W 101.14'
S 17°14'07" E 507.63'
N 23°48'58" W 1,212.57'
N 17°04'31" W 472.39'
S 17°04'31" E 90.25'
N 79°37'23" W 575.92'
N 79°37'23" W 1,079.25'
N 07°24'49" W 944.46'

RIM: 222.22'
RIM: 217.75'
RIM: 216.65'
RIM: 219.91'
RIM: 224.43'

INV: 207.3' INV OUT 12" PVC
INV: 209.1' INV IN 10" PVC
INV: 207.4' INV IN 12" PVC
INV: 213.5' INV 36" RCP
INV: 213.7' INV 36" RCP
INV: 213.7' INV 36" PVC
INV: 212.9' INV 36" RCP
INV: 212.8' INV 36" RCP
INV: 212.9' INV 36" RCP
INV: 212.4' INV IN 6" PVC
INV: 211.3' INV IN 12" PVC
INV: 209.9' INV OUT 12" PVC
INV: 209.3' INV IN 12" PVC
INV: 209.3' INV OUT 12" PVC
INV: 213.5' INV OUT 12" PVC
INV: 213.3' INV IN 12" PVC

±10' ASPHALT PATH
±10' SOIL PATH
FLOODWAY LINE
100 YR FLOOD LINE
TOP OF BANKS
EXISTING STREAM (TYP.)
EXISTING STREAM BUFFER ZONE 2 (TYP.)
EXISTING STREAM BUFFER ZONE 1 (TYP.)
100' STREAM BUFFER (TYP.)
CREEK CROSSES PROPERTY LINE (TYP.)
EX. CONCRETE MONUMENT
50' EXISTING BUFFER OF POND
NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY
SUNDAY SILENCE DR
UNBRIDLED DR

MATCH LINE
FOR CONTINUATION, SEE C-3.2




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-3.0 FOR LEGEND

**A. TOWN CERTIFICATION** . THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE
100 0 50 100 200 400
( IN FEET )
1 inch = 100 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA

**CONSTRUCTION PLANS**

**PARTIAL EXISTING CONDITION I**

DRAWING SHEET
**C-3.1**

**04 OF 112**

WIDEWATERS VILLAGE COMMUNITY ASSN INC
PIN: 1744825350
D.B. 012834, PG. 1631

FEATURE D

FEATURE CA

FEATURE CC

±10' ASPHALT PATH

N 58°26'14" E 405.68'

N 58°26'14" E 585.82'

WETLAND WD

INV: 213.5'
INV OUT 12" PVC
RIM: 224.43'

INV: 213.3'
INV IN 12" PVC

N 20°54'45" W 934.46'

FOR CONTINUATION, SEE C-3.1

MATCH LINE

FEATURE H

TOP OF BANKS

EXISTING STREAM

EXISTING STREAM BUFFER ZONE 2

EXISTING STREAM BUFFER ZONE 1

WETLAND WH-1

N 65°11'00" W 500.00'

EXISTING POND

50' EXISTING BUFFER OF POND

N 61°23'36" W 223.11'

S 84°17'29" W 397.39'

S 54°56'06" W 140.31'

S 82°30'31" W 151.43'

±10' SOIL PATH

N 79°37'23" W 1,079.25'

N 79°17'36" W 136.79'

C2

N 66°00'17" W 140.62'

N 68°33'05" W 226.49'

MARLOWE & MOYE LLC
PIN: 1743895866
D.B. 017271, PG. 639

MARLOWE & MOYE LLC
PIN: 1743895866
D.B. 017271, PG. 639

PAMELA LEIGH FAISON HALE
& TERESA ANN FAISON BREWER
PIN: 1744910921
B.M. 1981. PG. 547
D.B. 16323, PG. 2009

DEBORAH JANE
& MELTON E TART JR
PIN: 1744811114
B.M. 1981. PG. 67
D.B. 1009, PG. 576

100 YR FLOOD LINE

FLOODWAY LINE

TOP OF BANKS

WETLAND WB

FEATURE B

100' STREAM BUFFER (TYP.)

WETLAND WH-2

FEATURE H

FEATURE I

N/F
BROOKEFIELD STATION
DEVELOPMENT, LLC
B.M. 1997, PG. 1014, TRACT 2B
D.B. 11783, PG. 1

S 41°12'28" E 1,306.48'

S 41°10'51" E 722.69'

ST JOHNS ST
50' PUBLIC R/W

TORTOLA PI

CARIBBEAN CT

BALLASTED DR
60' PUBLIC R/W

THE TOWN OF KNIGHTDALE
D.B. 8095, PG. 1115
PIN: 1754-02-0595

RIM: 247.14'

LARSON, JOHN D JR
EVERETT, TINA M
PIN: 1744926142
D.B. 016560, PG. 2110

TOWNE, CHARLTON C
TOWNE, ANNA M
PIN: 1744927033
D.B. 016921, PG. 349

LEWIS LANDING COMMUNITY ASSOC INC
PIN: 1744916876
D.B. 009210, PG. 2584

UWANDJI, KISASE JEAN
PIN: 1744916782
D.B. 11144, PG. 750

JONES, LITISHA M
PIN: 1744916682
D.B. 010713, PG.02088

MURPHY, JENNIFER
MURPHY, ERIC
PIN: 1744916584
D.B. 15030, PG. 644

HALL, BRUCE R II
PIN: 1744916497
D.B.017450, PG. 01256

RABON, PHILIP A
RABON, NICHOLE N
PIN: 1744916399
D.B.013291, PG. 2092

THOMPSON, HANNAH
PIN: 1744916392
D.B.016110, PG. 182

CROSBY, NEAL
PIN: 1744916294
D.B. 016666, PG. 1950

SUITE, TYLER M SUITE,
DANIELLE B
PIN: 1744917106
D.B. 015658, PG. 2335

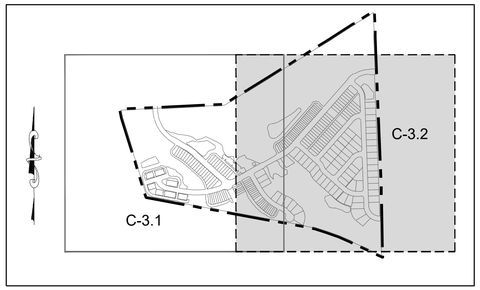
JERNIGAN, JOAN H
PIN: 1744917018
D.B. 010437, PG. 2060

ROBINSON, RENEE
PIN: 1744917020
D.B. 015150, PG. 2453

STEVENS, JAMES E
STEVENS, SHANNAN
COLLEEN
PIN: 1744907962
D.B. 011366, PG. 2542

PATTERSON, STEPHANIE
KRISTINE
PIN: 1744907962
D.B. 015057, PG. 1772

LARA-CUBAS, MARLON
YUNIOR ELIAS, LESLIE C
PIN: 1744907789
D.B. 016543, PG. 1012




## SITE KEY PLAN

## LEGEND:

SEE SHEET C-3.0 FOR LEGEND

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE

100 0 50 100 200 400

( IN FEET )
1 inch = 100 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA

CONSTRUCTION PLANS

**PARTIAL EXISTING CONDITION II**

DRAWING SHEET

**C-3.2**

**05 OF 112**

PROGRESS PLOT DATE: 1/16/2024

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

ROMAH, BOM KPA, HVAN
PIN: 1744828551
D.B. 013010, PG. 1281
ZONING: GR-8 RESIDENTIAL

RAMIREZ, JOSE ALEJANDRO
RAMIREZ, MARIBEL
PIN: 1744827485
D.B. 017498, PG. 2043
ZONING: GR-8 RESIDENTIAL

WIDEWATERS VILLAGE COMMUNITY ASSN INC
PIN: 1744825350
D.B. 012834, PG. 1631
ZONING: GR-8 RESIDENTIAL

EVANS, TESHENA M EVANS, RAYMOND L
PIN: 1744921659
D.B. 008483, PG. 2594
ZONING: GR-8 RESIDENTIAL

LUCKY HOMES LLC
PIN: 1744922702
D.B. 015470, PG. 1633
ZONING: GR-8 RESIDENTIAL

VAN ARKEL, JACY PAIGE
PIN: 1744922766
D.B. 016744, PG. 2781
ZONING: GR-8 RESIDENTIAL

HUGHES, LINDA K
PIN: 1744920695
D.B. 10935, PG. 2629
ZONING: GR-8 RESIDENTIAL

KNIGHT, DANIEL W JR
KNIGHT, CYNTHIA T
PIN: 1744923729
D.B. 008484, PG. 1929
ZONING: GR-8 RESIDENTIAL

YIZNITSKY, GEORGE PAUL V
PIN: 1744920641
D.B. 009460, PG. 789
ZONING: GR-8 RESIDENTIAL

VALLEY PARK DR

TORTOLA PL

MINGOCREST DR

SULLEY CT

TIMBER RIDGE SUB. PH. III SEC. I
B.M. 1998, PG. 1451

TIMBER RIDGE SUB. PH. III SEC. II
B.M. 1999, PG. 1769

VALENTINE, KELLY A
PIN: 1744923883
D.B. 016953, PG. 348
ZONING: GR-8 RESIDENTIAL

FISSE, TAYLOR REES, BRYAN PAUL
PIN: 1744924847
D.B. 016915, PG. 852
ZONING: GR-8 RESIDENTIAL

ARGUETA, MARIA ALVARADO
PIN: 1744925901
D.B. 017348, PG.0371
ZONING: GR-8 RESIDENTIAL

THE TOWN OF KNIGHTDALE
D.B. 1876, PG. 67
PIN: 1744-92-7973

PROGRESS RESIDENTIAL BORROWER 3 LLC
PIN: 1744710836
D.B. 017050, PG. 2629
ZONING: GR-8 RESIDENTIAL

CALAVARAS LN

JUMPIMG FROG LN

STERN WHEEL WAY

TEAMBOAT ST

HAINES, KEVIN JAY HAINES, MIMOSA C
PIN: 1744619815
D.B. 011658, PG. 182
ZONING: GR-8 RESIDENTIAL

TOPPS, SETH TOPPS, HEATHER
PIN: 1744618804
D.B. 017162, PG. 1823
ZONING: GR-8 RESIDENTIAL

DELTA RIVER WAY

WIDEWATERS VILLAGE COMMUNITY ASSN INC
PIN: 1744717834
D.B. 012834, PG. 1631
ZONING: GR-8 RESIDENTIAL

COMMON AREA
WIDEWATERS SUBDIVISION, PH. II
B.M. 2005, PG. 2011

OPEN SPACE
WIDEWATERS SUBDIVISION, PH. II
B.M. 2005, PG. 2011

NGUYEN, GINGER NICOLE
RICHARDS, CLARENCE N
PIN: 1744711897
D.B. 016474, PG. 2202
ZONING: GR-8 RESIDENTIAL

HOWARD, INGRID M
PIN: 1744616769
D.B. 0-E, PG. 847
ZONING: GR-8 RESIDENTIAL

WIDEWATERS PARKWAY
60' PUBLIC R/W

CLAY HILL DR

WETLAND WF

STREAM SCD

STREAM SCF

STREAM SCA

STREAM SC

STREAM SAA

WETLAND WA-1

WETLAND WD

WETLAND WB

STREAM SB

WETLAND WC

WETLAND WA-2

STREAM SCB

THE TOWN OF KNIGHTDALE
D.B. 8095, PG. 1115
PIN: 1754-02-0595

SOUTHAMPTON DRIVE
60' PUBLIC R/W

LARSON, JOHN D JR EVERETT, TINA M
PIN: 1744926142
D.B. 016560, PG. 2110
ZONING: GR-8 RESIDENTIAL

TOWNE, CHARLTON C
TOWNE, ANNA M
PIN: 1744927033
D.B. 016921, PG. 349
ZONING: GR-8 RESIDENTIAL

LEWIS LANDING COMMUNITY ASSOC INC
PIN: 1744916876
D.B. 009210, PG. 2584
ZONING: GR-8 RESIDENTIAL

UWANDJI, KISASE JEAN
PIN: 1744916782
D.B. 11144, PG. 750
ZONING: GR-8 RESIDENTIAL

NOYES, SHAWN NOYES, DIANA
PIN: 1744616783
D.B. 015243, PG. 1161
ZONING: GR-8 RESIDENTIAL

WIDEWATERS SUBDIVISION PH. I B
LOTS 92 103, 125-131
B.M. 2003, PG. 2272

RIM: 222.22'
20' SANITARY SEWER EASEMENT
INV: 213.5' INV 36" RCP
INV: 213.7' INV 36" RCP
INV: 213.7' INV 36" PVC
INV: 207.3' INV OUT 12" PVC
RIM: 216.65'
INV: 209.1' INV IN 10" PVC
INV: 207.4' INV IN 12" PVC
INV: 212.9' INV 36" RCP
INV: 212.8' INV 36" RCP
INV: 212.9' INV 36" RCP
TOP OF BANKS

RIM: 217.75'
INV: 212.4' INV IN 6" PVC
INV: 211.3' INV IN 12" PVC
INV: 209.9' INV OUT 12" PVC
±10' ASPHALT PATH

INV: 213.5' INV OUT 12" PVC
RIM: 224.43'
INV: 213.3' INV IN 12" PVC

RIM: 247.14'

TYBOROWSKI, PIOTR
PIN: 1744829588
D.B. 017614, PG. 942
ZONING: GR-8 RESIDENTIAL

LEWIS LANDING SUBDIVISION, PH. I
LOTS 1-12
B.M. 1999, PG. 1347

THE LANDINGS AT PLANTERS WALK, PH. II B
B.M. 1988, PG. 1422

WRIGHT, ADAM WRIGHT, KARA
PIN: 1744616684
D.B. 016167, PG. 1347
ZONING: GR-8 RESIDENTIAL

GUERRERO-PEREZ, ENCARNACION HERNANDEZ, YANITZA E ROMER
PIN: 1744829524
D.B. 014379, PG. 1325
ZONING: GR-8 RESIDENTIAL

JONES, LITISHA M
PIN: 1744916682
D.B. 010713, PG.02088
ZONING: GR-8 RESIDENTIAL

MURPHY, JENNIFER MURPHY, ERIC
PIN: 1744916584
D.B. 15030, PG. 644
ZONING: GR-8 RESIDENTIAL

THE LANDINGS AT PLANTERS WALK, PH. II C
B.M. 1989, PG. 850

LOPEZ, MARK LOPEZ, THERESA L
PIN: 1744616596
D.B. 005729, PG. 118
ZONING: GR-8 RESIDENTIAL

STREAM SA

WOOD BRIDGE CREEK

WETLAND WA-3

THE TOWN OF KNIGHTDALE
D.B. 6389, PG. 492
B.M. 1994, PG. 1087, TRACT E

RIM: 219.91'
INV: 209.3' INV IN 12" PVC
INV: 209.3' INV OUT 12" PVC

STREAM SCE

STREAM SHA

STREAM SCH

STREAM SCG

PAMELA LEIGH FAISON HALE & TERESA ANN FAISON BREWER
PIN: 1744711175
B.M. 1981. PG. 547
D.B. 16323, PG. 2009

WETLAND WG-1

TOP OF BANKS

WETLAND WG-2

DEBORAH JANE & MELTON E TART JR
PIN: 1744811114
B.M. 1981. PG. 67
D.B. 1009, PG. 576

FLOODWAY LINE

EXISTING STREAM (TYP.)

TOP OF BANKS

EXISTING STREAM BUFFER ZONE 1 (TYP.)

EXISTING STREAM BUFFER ZONE 2 (TYP.)

100 YR FLOOD LINE

30' SANITARY SEWER AND GREENWAY EASEMENT

ELECTRIC EASEMENT

PAMELA LEIGH FAISON HALE & TERESA ANN FAISON BREWER
PIN: 1744910921
B.M. 1981, PG. 547
D.B. 16323, PG. 2009

THOMPSON, HANNAH
PIN: 1744916392
D.B.016110, PG. 182
ZONING: GR-8 RESIDENTIAL

HALL, BRUCE R II
PIN: 1744916497
D.B.017450, PG. 01256
ZONING: GR-8 RESIDENTIAL

ST JOHNS ST
50' PUBLIC R/W

TORTOLA PL

LEWIS LANDING SUBDIVISION, PHASE 2
B.M. 2001, PG. 1390

RABON, PHILIP A RABON, NICHOLE N
PIN: 1744916399
D.B. 013291, PG. 2092
ZONING: GR-8 RESIDENTIAL

CROSBY, NEAL
PIN: 1744916294
D.B. 016666, PG. 1950
ZONING: GR-8 RESIDENTIAL

JERNIGAN, JOAN H
PIN: 1744917018
D.B. 010437, PG. 2060
ZONING: GR-8 RESIDENTIAL

CARIBBEAN CT

EXISTING POND

±10' SOIL PATH

SUITE, TYLER M SUITE, DANIELLE B
PIN: 1744917106
D.B. 015658, PG. 2335
ZONING: GR-8 RESIDENTIAL

ROBINSON, RENEE
PIN: 1744917020
D.B. 015150, PG. 2453
ZONING: GR-8 RESIDENTIAL

50' EXISTING BUFFER OF POND

BALLASTED DR
60' PUBLIC R/W

STEVENS, JAMES E STEVENS, SHANNAN COLLEEN
PIN: 1744907962
D.B. 011366, PG. 2542
ZONING: GR-8 RESIDENTIAL

PATTERSON, STEPHANIE KRISTINE
PIN: 1744907962
D.B. 015057, PG. 1772
ZONING: GR-8 RESIDENTIAL

CONCRETE MONUMENT

CREEK CROSSES PROPERTY LINE (TYP.)

NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY

CHURCHILL COMMUNITY ASSN INC
PIN: 1744606258
D.B. 13266, PG. 1372
ZONING: GR-8 RESIDENTIAL

SUNDAY SILENCE DR

OLD ROSEBUD DR

UNBRIDLED DR

CHURCHILL COMMUNITY ASSN INC
PIN: 1744705462
D.B. 13266, PG. 1376
ZONING: GR-8 RESIDENTIAL

MARLOWE & MOYC LLC
PIN: 1743895866
D.B. 17271, PG. 639
ZONING: GR-8 RESIDENTIAL

WETLAND WH-1

WETLAND WH-2

STREAM SCH

N/F
BROOKEFIELD STATION DEVELOPMENT, LLC
B.M. 1997, PG. 1014, TRACT 2B
D.B. 11783, PG. 1

LARA-CUBAS, MARLON YUNIOR ELIAS, LESLIE C
PIN: 1744907789
D.B. 016543, PG. 1012
ZONING: GR-8 RESIDENTIAL

GRAPHIC SCALE
200 0 100 200 400 800
( IN FEET )
1 inch = 200 ft.

## LEGEND:

- MASTER PLAN BOUNDARY
- EXISTING ADJOINER PROPERTY LINE
- 300 — 10' CONTOUR
- 2' CONTOUR
- OP — OP — EXISTING OVERHEAD POWER
- EXISTING STREAM
- EXISTING STREAM BUFFER - ZONE 2
- EXISTING STREAM BUFFER - ZONE 1
- EXISTING POND
- EXISTING ELECTRIC EASEMENT
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER EASEMENT
- EXISTING SANITARY SEWER MANHOLE
- WTLD — WTLD — EXISTING WETLAND
- DEMO / ABANDON
- DEMO EXISTING ROAD UNPAVED

## DEMOLITION KEYNOTES:

1. EXISTING ROAD UNPAVED TO BE REMOVED.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE: AS SHOWN | DESIGNED BY: JWL / DRAWN BY: SRG / CHECKED BY: JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

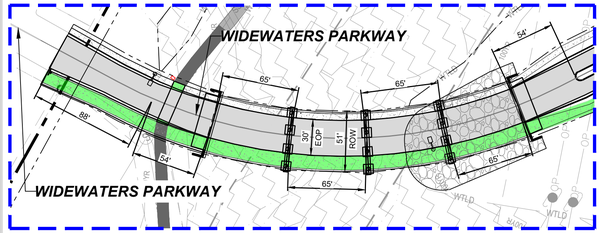
**DEMOLITION PLAN**

DRAWING SHEET
**C-4.0**

**06 OF 112**

## GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO TOWN OF KNIGHTDALE AND CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
2. ROADS AND DRIVEWAYS SHALL COMPLY WITH NCDOT AND TOWN OF KNIGHTDALE STANDARDS.
3. SIGN PERMITS SHALL BE REQUIRED FOR ANY ENTRANCE SIGNAGE. PERMITS SHALL BE REQUIRED PRIOR TO FABRICATION OR INSTALLATION OF SIGNS. SIGNAGE SHALL BE RESTRICTED TO AN ON-SITE LOCATION.
4. THE WATER AND SEWER SYSTEMS SHALL COMPLY WITH CITY OF RALEIGH STANDARDS.
5. ALL DESIGN AND CONSTRUCTION METHODS SHALL COMPLY WITH WAKE COUNTY'S SEDIMENTATION AND EROSION CONTROL REGULATIONS. AN EROSION CONTROL PLAN SHALL BE APPROVED BY WAKE COUNTY PRIOR TO ANY GRADING.
6. CONSTRUCTION DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE TOWN OF KNIGHTDALE AND CITY OF RALEIGH PRIOR TO CONSTRUCTION.
7. ALL STREETS WITHIN THE SUBDIVISION WILL HAVE A POSTED SPEED LIMIT OF 25 MPH.
8. RESTRICTIVE COVENANTS SHALL BE APPROVED AND RECORDED PRIOR TO RECORDING OF FINAL PLAT.
9. STORMWATER CONTROL MEASURES SHALL BE CONTAINED IN AND ACCESSED VIA OPEN SPACE MAINTAINED AND OWNED BY THE HOMEOWNER'S ASSOCIATION. A MAINTENANCE PLAN MUST BE DEVELOPED TO ADDRESS THE STORMWATER CONTROL MEASURES.
10. PRIVATE STORM DRAINAGE EASEMENTS SHALL BE MAINTAINED BY THE HOA.
11. SUBDIVISION LOTS MUST BE LOTS OF RECORD PRIOR TO RECEIVING A BUILDING PERMIT.




SECTION ALONG WIDEWATERS PARKWAY

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

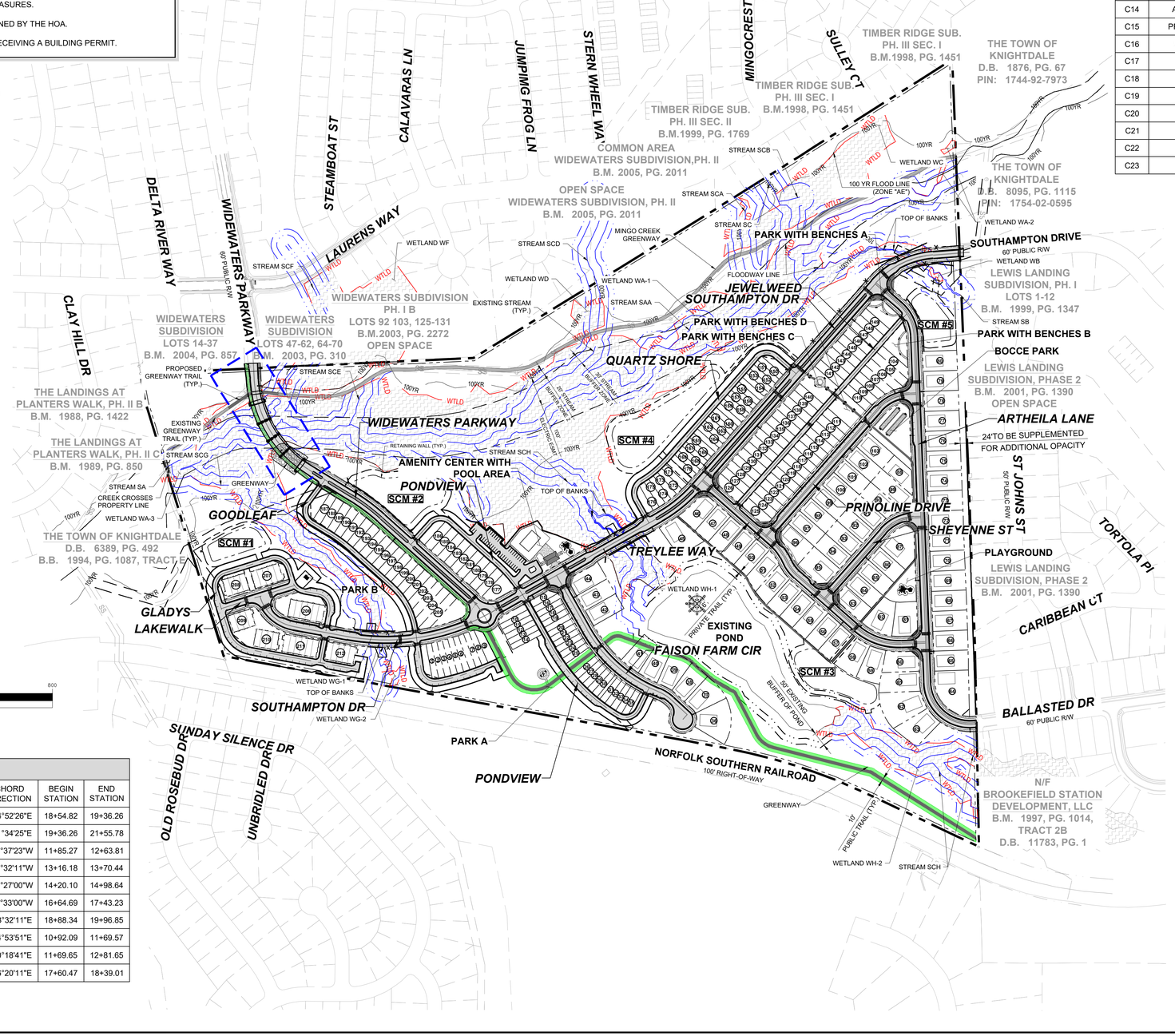
BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## USPS NOTE

CLUSTER MAILBOXES TO BE LOCATED WITHIN NEIGHBORHOOD OPEN SPACE. KIOSK LOCATION SHALL BE APPROVED BY USPS PRIOR TO SUBDIVISION APPROVAL. IF TEMPORARY LOCATIONS ARE REQUIRED, APPROVAL OF LOCATIONS SHALL BE RECEIVED FROM USPS. MIAL KIOSK WILL HAVE ADA COMPLIANT RAMPS AND PARKING SPACES.

## LEGEND:

- EXISTING PROPERTY LINE
- STREET LIGHT
- SIGN
- WHEELCHAIR RAMP
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- STANDARD CURB & GUTTER
- DRAINAGE EASEMENT
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- WETLAND




GRAPHIC SCALE

200 0 100 200 400 800

( IN FEET )
1 inch = 200 ft.

## CURVE TABLE

| NAME | ROADWAY | RADIUS | ARC LENGTH | CHORD LENGTH | CHORD DIRECTION | BEGIN STATION | END STATION |
|---|---|---|---|---|---|---|---|
| C1 | WIDEWATERS PARKWAY | 400.00' | 384.65' | 370.00' | S30°57'36"E | 10+73.54 | 14+58.19 |
| C2 | WIDEWATERS PARKWAY | 700.00' | 127.86' | 127.68' | S53°16'32"E | 16+36.65 | 17+64.51 |
| C3 | WIDEWATERS PARKWAY | 300.00' | 107.81' | 107.23' | S37°44'52"E | 21+74.24 | 22+82.05 |
| C4 | SOUTHAMPTON DR | 150.00' | 162.77' | 154.90' | S48°32'11"E | 10+03.97 | 11+66.74 |
| C5 | SOUTHAMPTON DR | 750.00' | 521.88' | 511.41' | N80°26'34"E | 13+57.98 | 18+79.86 |
| C6 | SOUTHAMPTON DR | 500.00' | 167.31' | 166.53' | N50°55'21"E | 25+55.34 | 27+22.65 |
| C7 | SOUTHAMPTON DR | 300.00' | 232.44' | 226.67' | N63°31'56"E | 36+70.27 | 39+02.71 |
| C8 | FAISON FARM CIR | 500.00' | 337.57' | 331.20' | S48°49'58"E | 12+16.84 | 15+54.41 |
| C9 | FAISON FARM CIR | 150.00' | 54.64' | 54.34' | S57°44'19"E | 15+54.41 | 16+09.05 |
| C10 | TREYLEE WAY | 150.00' | 53.82' | 53.53' | S38°23'08"E | 13+34.80 | 13+88.62 |
| C11 | TREYLEE WAY | 150.00' | 53.82' | 53.53' | S38°23'08"E | 14+19.66 | 14+73.47 |
| C12 | TREYLEE WAY | 225.00' | 170.78' | 166.71' | S70°24'29"E | 17+50.90 | 19+21.68 |
| C13 | ARTHEILA LANE | 150.00' | 121.77' | 118.45' | S25°24'29"E | 11+14.13 | 12+35.89 |
| C14 | ARTHEILA LANE | 150.00' | 250.29' | 222.25' | S49°57'13"E | 24+50.64 | 27+00.92 |
| C15 | PRINOLINE DRIVE | 150.17' | 123.77' | 120.30' | N64°56'52"E | 15+96.86 | 17+20.63 |
| C16 | SHEYENNE ST | 150.00' | 121.77' | 118.45' | N64°35'31"E | 13+16.96 | 14+38.73 |
| C17 | PONDVIEW | 50.00' | 78.54' | 70.71' | N86°57'25"E | 11+02.00 | 11+80.54 |
| C18 | PONDVIEW | 452.00' | 157.08' | 156.29' | S40°19'41"E | 13+83.76 | 15+40.83 |
| C19 | PONDVIEW | 637.00' | 330.80' | 327.10' | S44°22'07"E | 17+57.67 | 20+88.48 |
| C20 | PONDVIEW | 50.00' | 82.80' | 73.66' | N73°18'39"E | 20+88.48 | 21+71.28 |
| C21 | GOODLEAF | 50.00' | 83.09' | 73.86' | S10°54'00"E | 10+97.86 | 11+80.95 |
| C22 | GOODLEAF | 548.00' | 100.09' | 99.95' | S53°16'32"E | 12+51.75 | 13+51.85 |
| C23 | GOODLEAF | 250.00' | 173.79' | 170.32' | S28°07'40"E | 15+40.10 | 17+13.89 |

## LINE TABLE

| NAME | ROADWAY | LENGTH | DIRECTION | BEGIN STATION | END STATION |
|---|---|---|---|---|---|
| L1 | WIDEWATERS PARKWAY | 73.54' | S3°24'42"E | 10+00.00 | 10+73.54 |
| L2 | WIDEWATERS PARKWAY | 178.46' | S58°30'30"E | 14+58.19 | 16+36.65 |
| L3 | WIDEWATERS PARKWAY | 409.73' | S48°02'35"E | 17+64.51 | 21+74.24 |
| L4 | WIDEWATERS PARKWAY | 37.13' | S27°27'08"E | 22+82.05 | 23+19.18 |
| L5 | SOUTHAMPTON DR | 3.97' | S17°27'00"E | 10+00.00 | 10+03.97 |
| L6 | SOUTHAMPTON DR | 191.25' | S79°37'23"E | 11+66.74 | 13+57.98 |
| L7 | SOUTHAMPTON DR | 675.48' | N60°30'31"E | 18+79.87 | 25+55.34 |
| L8 | SOUTHAMPTON DR | 947.62' | N41°20'11"E | 27+22.66 | 36+70.27 |
| L9 | SOUTHAMPTON DR | 127.68' | N85°43'42"E | 39+02.71 | 40+30.39 |
| L10 | FAISON FARM CIR | 216.84' | S29°29'29"E | 10+00.00 | 12+16.84 |
| L11 | FAISON FARM CIR | 75.17' | S47°18'10"E | 16+09.06 | 16+84.22 |
| L12 | FAISON FARM CIR | 23.00' | S42°41'50"W | 16+84.23 | 17+07.22 |
| L13 | TREYLEE WAY | 334.80' | S48°39'49"E | 10+00.00 | 13+34.80 |
| L14 | TREYLEE WAY | 31.04' | S28°06'27"E | 13+88.62 | 14+19.66 |
| L15 | TREYLEE WAY | 277.43' | S48°39'49"E | 14+73.48 | 17+50.90 |
| L16 | TREYLEE WAY | 85.20' | N87°50'51"E | 19+21.68 | 20+06.88 |
| L17 | ARTHEILA LANE | 114.13' | S48°39'49"E | 10+00.00 | 11+14.13 |
| L18 | ARTHEILA LANE | 1214.74' | S2°09'09"E | 12+35.90 | 24+50.64 |
| L19 | ARTHEILA LANE | 1.47' | N82°14'43"E | 27+00.93 | 27+02.39 |
| L20 | PRINOLINE DRIVE | 596.86' | N41°20'11"E | 10+00.00 | 15+96.86 |
| L21 | PRINOLINE DRIVE | 21.00' | N87°50'12"E | 17+22.21 | 17+43.21 |
| L22 | SHEYENNE ST | 316.96' | N41°20'11"E | 10+00.00 | 13+16.96 |
| L23 | SHEYENNE ST | 24.54' | N87°50'51"E | 14+38.73 | 14+63.27 |
| L24 | PONDVIEW | 102.00' | N41°57'25"E | 10+00.00 | 11+02.00 |
| L25 | PONDVIEW | 203.22' | S48°02'35"E | 11+80.54 | 13+83.76 |
| L26 | PONDVIEW | 216.84' | S29°29'29"E | 15+40.84 | 17+57.67 |
| L27 | PONDVIEW | 84.87' | N25°52'04"E | 21+71.28 | 22+56.15 |
| L28 | GOODLEAF | 97.86' | S36°42'29"W | 10+00.00 | 10+97.86 |
| L29 | GOODLEAF | 70.80' | S58°30'30"E | 11+80.96 | 12+51.75 |
| L30 | GOODLEAF | 188.25' | S48°02'35"E | 13+51.85 | 15+40.10 |
| L31 | GOODLEAF | 140.92' | S8°12'45"E | 17+13.90 | 18+54.82 |
| L32 | GLADYS | 185.27' | N10°22'37"E | 10+00.00 | 11+85.27 |
| L33 | GLADYS | 52.37' | N79°37'23"W | 12+63.82 | 13+16.18 |
| L34 | GLADYS | 49.66' | N17°27'00"W | 13+70.44 | 14+20.10 |
| L35 | GLADYS | 166.05' | S72°33'00"W | 14+98.64 | 16+64.69 |
| L36 | GLADYS | 145.11' | S17°27'00"E | 17+43.23 | 18+88.34 |
| L37 | GLADYS | 377.72' | S79°37'23"E | 19+96.86 | 23+74.57 |
| L38 | JEWELWEED | 912.76' | N41°20'14"E | 10+00.00 | 19+12.76 |
| L39 | QUARTZ SHORE | 92.09' | N29°29'29"W | 10+00.00 | 10+92.09 |
| L40 | QUARTZ SHORE | 0.08' | N59°17'12"E | 11+69.57 | 11+69.65 |
| L41 | QUARTZ SHORE | 478.82' | N41°20'11"E | 12+81.65 | 17+60.47 |
| L42 | QUARTZ SHORE | 92.00' | S48°39'49"E | 18+39.01 | 19+31.01 |
| L43 | LAKEWALK | 268.45' | S72°33'00"W | 10+00.00 | 12+68.45 |

## CURVE TABLE

| NAME | ROADWAY | RADIUS | ARC LENGTH | CHORD LENGTH | CHORD DIRECTION | BEGIN STATION | END STATION |
|---|---|---|---|---|---|---|---|
| C24 | GOODLEAF | 50.00' | 81.44' | 72.73' | S54°52'26"E | 18+54.82 | 19+36.26 |
| C25 | GOODLEAF | 912.00' | 219.52' | 218.99' | N71°34'25"E | 19+36.26 | 21+55.78 |
| C26 | GLADYS | 50.00' | 78.54' | 70.71' | N34°37'23"W | 11+85.27 | 12+63.81 |
| C27 | GLADYS | 50.00' | 54.26' | 51.63' | N48°32'11"W | 13+16.18 | 13+70.44 |
| C28 | GLADYS | 50.00' | 78.54' | 70.71' | N62°27'00"W | 14+20.10 | 14+98.64 |
| C29 | GLADYS | 50.00' | 78.54' | 70.71' | S27°33'00"W | 16+64.69 | 17+43.23 |
| C30 | GLADYS | 100.00' | 108.51' | 103.27' | S48°32'11"E | 18+88.34 | 19+96.85 |
| C31 | QUARTZ SHORE | 50.00' | 77.47' | 69.95' | N14°53'51"E | 10+92.09 | 11+69.57 |
| C32 | QUARTZ SHORE | 357.50' | 112.00' | 111.54' | N50°18'41"E | 11+69.65 | 12+81.65 |
| C33 | QUARTZ SHORE | 50.00' | 78.54' | 70.71' | N86°20'11"E | 17+60.47 | 18+39.01 |

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONG ROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**OVERALL SITE PLAN**

DRAWING SHEET
**C-5.0**

**07 OF 112**

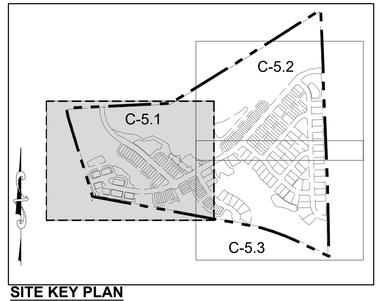
PROGRESS PLOT DATE: 1/16/2024

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-5.0 FOR LEGEND, LINE AND CURVE TABLES

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

WIDEWATERS SUBDIVISION LOTS 14-37 B.M. 2004, PG. 857

SUBDIVISION LOTS 47-62, 64-70 B.M. 2003, PG. 310

THE TOWN OF KNIGHTDALE D.B. 6389, PG. 492 B.M. 1994, PG. 1087, TRACT E

WIDEWATERS PARKWAY 64' PUBLIC R/W

PONDVIEW 20' PRIVATE R/W

GOODLEAF 20' PRIVATE R/W

LAKEWALK 54' PUBLIC R/W

GLADYS 20' PRIVATE R/W

SOUTHAMPTON DR 64' PUBLIC R/W

SCM #1

SCM #2

PARK A

PARK B

AMENITY CENTER WITH POOL AREA

NORFOLK SOUTHERN RAILROAD 100' RIGHT-OF-WAY

MATCH LINE
FOR CONTINUATION, SEE C-5.2


NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT
SEAL

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609

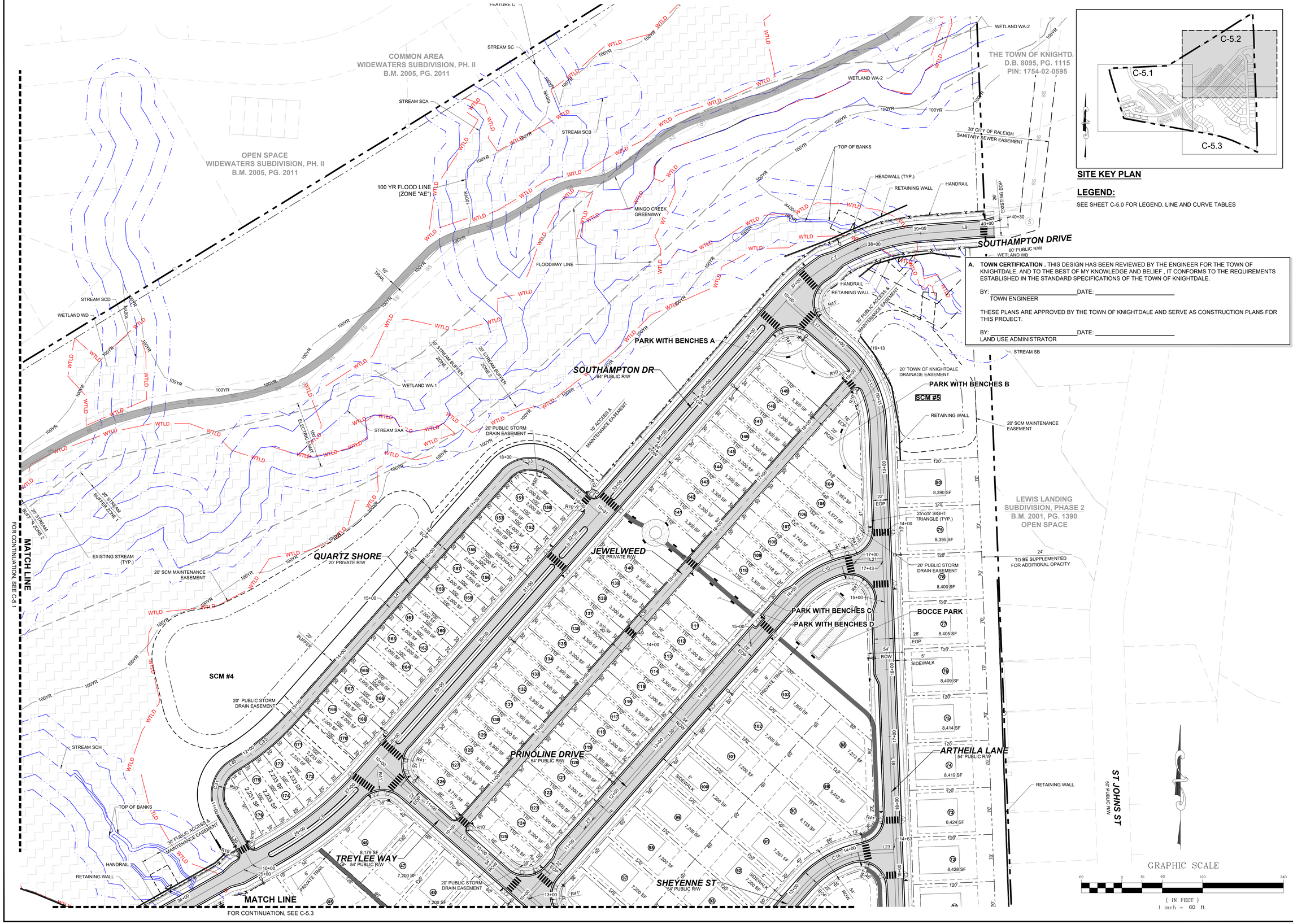
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**PARTIAL SITE PLAN I**

DRAWING SHEET
**C-5.1**

**08 OF 112**

PROGRESS PLOT DATE: 1/16/2024







## SITE KEY PLAN

## LEGEND:

SEE SHEET C-5.0 FOR LEGEND, LINE AND CURVE TABLES

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT
SEAL

| No. | REVISIONS | DATE | BY |
|---|---|---|---|


STRONGROCK
ENGINEERING GROUP
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| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

# PARTIAL SITE PLAN II

DRAWING SHEET
C-5.2

09 OF 112

PROGRESS PLOT DATE: 1/16/2024

FOR CONTINUATION, SEE C-5.2

FOR CONTINUATION, SEE C-5.1

MATCH LINE

MATCH LINE

SOUTHAMPTON DR
54' PUBLIC R/W

TREYLEE WAY
54' PUBLIC R/W

PRINOLINE DRIVE
54' PUBLIC R/W

SHEYENNE ST
54' PUBLIC R/W

ARTHEILA LANE
54' PUBLIC R/W

FAISON FARM CIR
54' PUBLIC R/W

PONDVIEW
20' PRIVATE R/W

ST JOHNS ST
50' PUBLIC R/W

BALLASTED DR
60' PUBLIC R/W

CARIBBEAN CT

PARK A

EXISTING POND

SCM #3

PLAYGROUND

THE POND FOUNTAIN

ENHANCED CROSSWALK

WETLAND WH-1

WETLAND WH-2

STREAM SCH

TOP OF BANKS

HANDRAIL

RETAINING WALL

HEADWALL

30' PUBLIC ACCESS & MAINTENANCE EASEMENT

10' ACCESS & MAINTENANCE EASEMENT

20' PUBLIC STORM DRAIN EASEMENT

20' SCM MAINTENANCE EASEMENT

10' PUBLIC TRAIL

6' PRIVATE TRAIL

5' SIDEWALK

25'x25' SIGHT TRIANGLE (TYP.)

MAIL KIOSK WITH OVER HEAD SHELTER 5' BEYOND FOOTPRINT

50' EXISTING BUFFER OF POND

NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY

10' BUFFER

30' GREENWAY EASEMENT

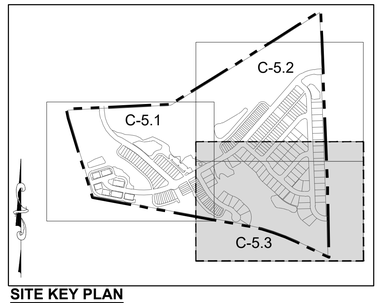
20' STREAM BUFFER ZONE 2

30' STREAM BUFFER ZONE 1

LEWIS LANDING SUBDIVISION, PHASE 2
B.M. 2001, PG. 1390

TO BE SUPPLEMENTED FOR ADDITIONAL OPACITY

N/F
BROOKEFIELD STATION DEVELOPMENT, LLC
B.M. 1997, PG. 1014, TRACT 2B




## SITE KEY PLAN

## LEGEND:

SEE SHEET C-5.0 FOR LEGEND, LINE AND CURVE TABLES

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | | DESIGNED BY | JWL |
| | NOT FOR CONSTRUCTION | DRAWN BY | SRG |
| | SCALE AS SHOWN | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL SITE PLAN III**

DRAWING SHEET
**C-5.3**

**10 OF 112**

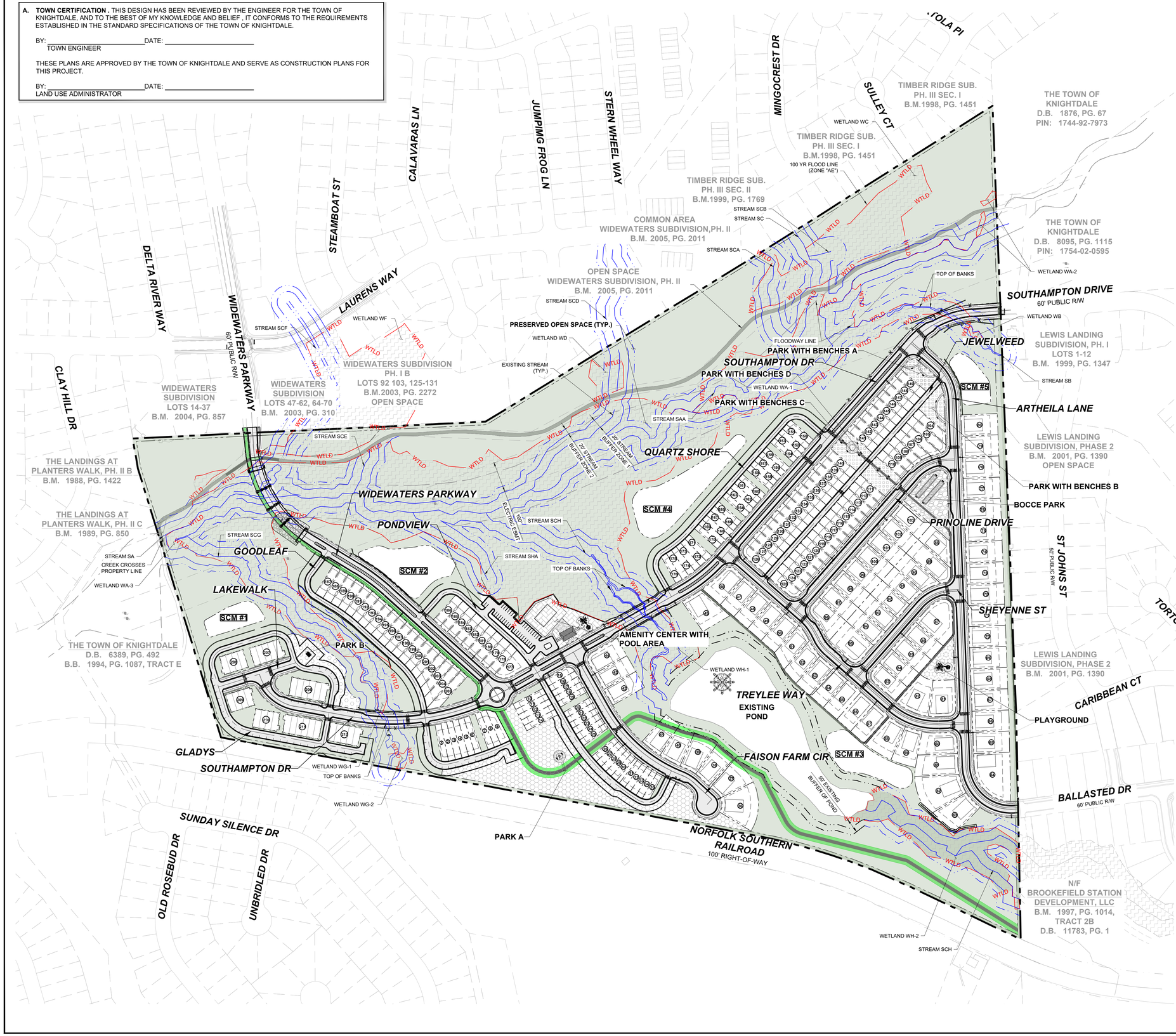
PROGRESS PLOT DATE: 1/16/2024

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR




**LEGEND:**

- EXISTING PROPERTY LINE
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- STANDARD CURB & GUTTER
- DRAINAGE EASEMENT
- STREET LIGHT
- SIGN
- CONCRETE SIDEWALK
- PASSIVE & PRESERVED OPEN SPACE
- PARK WITH BENCHES
- AMENITY CENTER WITH POOL AREA
- PLAYGROUND
- PARK WITH FIRE PIT
- PARK
- BOCCE PARK
- WETLANDS

| | AREA |
|---|---|
| ACTIVE OPEN SPACE | 142,811 SF (3.28 AC) |
| PASSIVE OPEN SPACE | 147,995 SF (3.40 AC) |
| PRESERVED OPEN SPACE | 2,311,843 SF (53.07 AC) |
| TOTAL | 2,602,649 SF (59.75 AC) |

GRAPHIC SCALE
150 0 75 150 300 600
( IN FEET )
1 inch = 150 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONG ROCK ENGINEERING GROUP

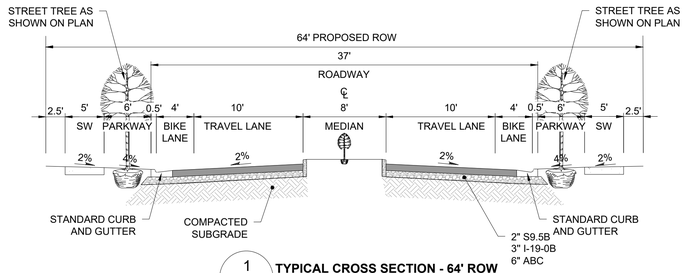
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
STRONG ROCK ENGINEERING GROUP, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

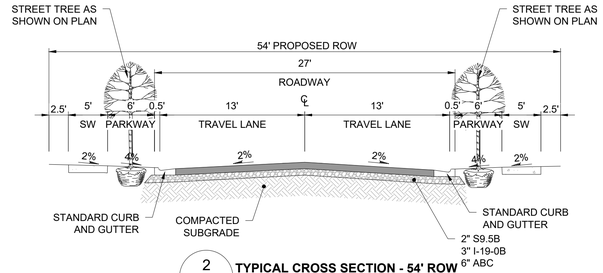
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**OPEN SPACE PLAN**

DRAWING SHEET
**C-5.4**

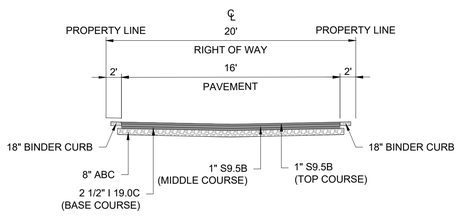
**11 OF 112**



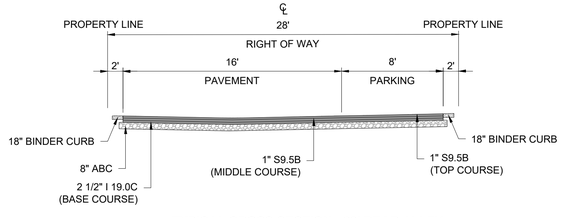

1 C-5.5 **TYPICAL CROSS SECTION - 64' ROW**
SCALE: NTS



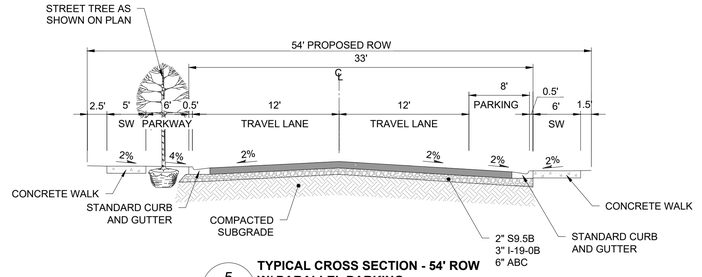

2 C-5.5 **TYPICAL CROSS SECTION - 54' ROW**
SCALE: NTS




3 C-5.5 **TYPICAL CROSS SECTION - 20' REAR ALLEY**
SCALE: NTS




4 C-5.5 **TYPICAL CROSS SECTION - 28' REAR ALLEY W/ PARALLEL PARKING**
SCALE: NTS




5 C-5.5 **TYPICAL CROSS SECTION - 54' ROW W/ PARALLEL PARKING**
SCALE: NTS

**A. TOWN CERTIFICATION** , THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**SITE AND STREET DETAILS**

DRAWING SHEET
**C-5.5**

PROGRESS PLOT DATE: 1/16/2024

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK. CITY OF RALEIGH PUBLIC. CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

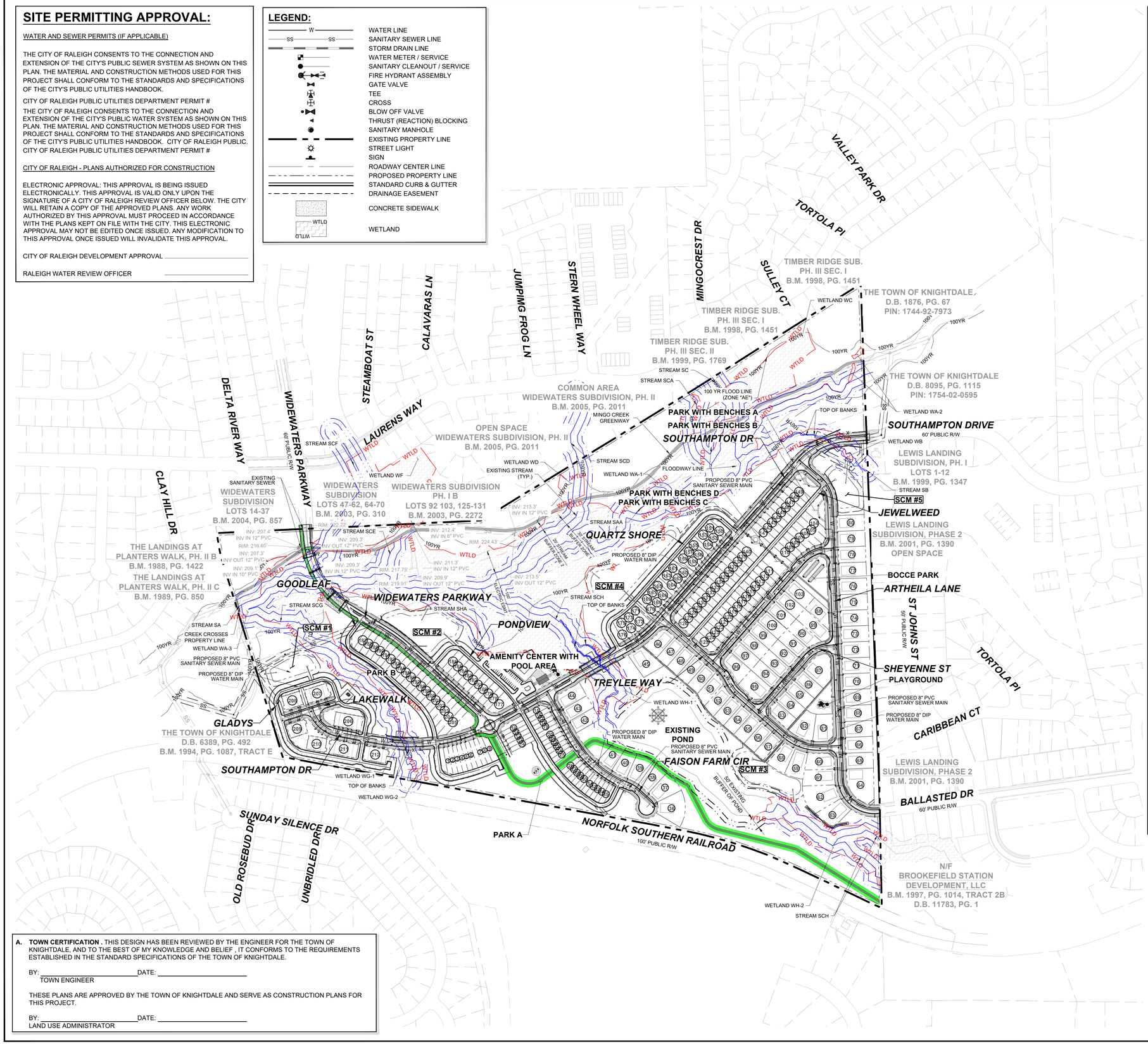
ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

## LEGEND:

- WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- WATER METER / SERVICE
- SANITARY CLEANOUT / SERVICE
- FIRE HYDRANT ASSEMBLY
- GATE VALVE
- TEE
- CROSS
- BLOW OFF VALVE
- THRUST (REACTION) BLOCKING
- SANITARY MANHOLE
- EXISTING PROPERTY LINE
- STREET LIGHT
- SIGN
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- STANDARD CURB & GUTTER
- DRAINAGE EASEMENT
- CONCRETE SIDEWALK
- WETLAND




## STANDARD UTILITY NOTES:

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   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 WATER MAIN, 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 STORM DRAIN 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. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
7. 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.
8. INSTALL 3/4" COPPER* 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.
9. INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
10. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALLSANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
11. 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.
12. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
13. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC / BLDG PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
14. 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 OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. A CERTIFICATE OF COMPLIANCE SHALL ALSO BE OBTAINED FROM THE RW CROSS - CONNECTION COORDINATOR FOR EACH DEVICE PRIOR TO ISSUANCE OF A UC / BLDG PERMIT. CONTACT (919) 996-5923 OR CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
15. NOTICE FOR PROJECTS WITH REPLACED OR OVERSIZED MAINS: IF THE CITY'S REIMBURSEMENT FOR AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT PROJECT IS $250,000 OR GREATER - THE PROJECT MUST BE PUBLICLY BI.
16. BELOW GROUNDS INFASTRUCTURE IS ASSUMED TO FOLLOW THE R/W.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE
150 0 75 150 300 600
( IN FEET )
1 inch = 150 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**OVERALL UTILITY PLAN**

DRAWING SHEET
**C-6.0**

**13 OF 112**

PROGRESS PLOT DATE: 1/16/2024

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

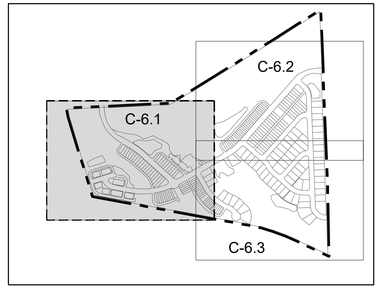
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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-6.0 FOR LEGEND

SUBDIVISION
LOTS 47-62, 64-70
B.M. 2003, PG. 310

THE TOWN OF KNIGHTDALE
D.B. 6389, PG. 492
B.M. 1994, PG. 1087, TRACT E

WIDEWATERS PARKWAY
GOODLEAF
GLADYS
LAKEWALK
PARK B
SOUTHAMPTON DR
PONDVIEW
FAISON FARM CIR
NORFOLK SOUTHERN RAILDOAD
100' RIGHT-OF-WAY
PARK A

SCM #1
SCM #2

AMENITY CENTER WITH POOL AREA

MATCH LINE
FOR CONTINUATION, SEE C-6.2

79 LF 8" PVC - SDR 26 @ 0.5% MIN.

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


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| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL UTILITY PLAN I**

DRAWING SHEET
**C-6.1**

**14 OF 112**

PROGRESS PLOT DATE: 1/16/2024

COMMON AREA
WIDEWATERS SUBDIVISION, PH. II
B.M. 2005, PG. 2011

OPEN SPACE
WIDEWATERS SUBDIVISION, PH. II
B.M. 2005, PG. 2011

STREAM SCA
STREAM SCB
STREAM SCD
WETLAND WD
WETLAND WA-1
STREAM SAA
STREAM SCH
EXISTING STREAM (TYP.)
MINGO CREEK GREENWAY
FLOODWAY LINE
30' STREAM BUFFER ZONE 1
20' STREAM BUFFER ZONE 2
100YR
WTLD
SS

SOUTHAMPTON DRIVE
60' PUBLIC R/W
SOUTHAMPTON DR
QUARTZ SHORE
JEWELWEED
TREYLEE WAY
SHEYENNE ST
ARTHEILA LANE
PRINOLINE DRIVE
ST JOHNS ST
50' PUBLIC R/W

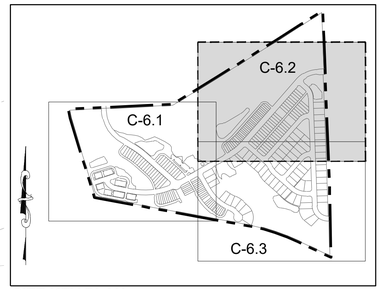
PARK WITH BENCHES A
PARK WITH BENCHES B
PARK WITH BENCHES C
PARK WITH BENCHES D
BOCCE PARK
SCM #4
SCM #5

SSMH #30043 (EX)
CONNECT TO EXISTING SANITARY SEWER MANHOLE
30' CITY OF RALEIGH SANITARY SEWER EASEMENT
REPLACE EXISTING SANITARY SEWER PIPE & MANHOLE
TOP OF BANKS
8" BLOW-OFF ASSEMBLY
12" DIP W/L
8" DIP W/L
FHA
12"x12" DIP TEE W / (3) 12" GV
8"x8" DIP TEE W / (3) 8" GV
4" SANITARY SEWER C/O & SERVICE (TYP.)
3/4" WATER METER & SERVICE (TYP.)
RETAINING WALL (TYP.)
PIPE #30 PIPE #31 PIPE #32 PIPE #33 PIPE #34 PIPE #35 PIPE #36 PIPE #37 PIPE #38 PIPE #39 PIPE #40 PIPE #41 PIPE #42 PIPE #43 PIPE #44 PIPE #45 PIPE #46 PIPE #47 PIPE #48 PIPE #57 PIPE #58 PIPE #59 PIPE #60 PIPE #61 PIPE #62 PIPE #63 PIPE #64 PIPE #65
SSMH #31 SSMH #32 SSMH #33 SSMH #34 SSMH #35 SSMH #36 SSMH #37 SSMH #38 SSMH #39 SSMH #40 SSMH #41 SSMH #42 SSMH #43 SSMH #44 SSMH #45 SSMH #46 SSMH #47 SSMH #57 SSMH #58 SSMH #59 SSMH #60 SSMH #61 SSMH #62 SSMH #63 SSMH #64 SSMH #65
WETLAND WB

LEWIS LANDING SUBDIVISION, PHASE 2
B.M. 2001, PG. 1390
OPEN SPACE

MATCH LINE
FOR CONTINUATION, SEE C-6.1

MATCH LINE
FOR CONTINUATION, SEE C-6.3




## SITE KEY PLAN LEGEND:

SEE SHEET C-6.0 FOR LEGEND

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK. CITY OF RALEIGH PUBLIC. CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONG ROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
|---|---|
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL UTILITY PLAN II**

DRAWING SHEET
**C-6.2**

**15 OF 112**

PROGRESS PLOT DATE: 1/16/2024

FOR CONTINUATION, SEE C-6.2

FOR CONTINUATION, SEE C-6.1

MATCH LINE

MATCH LINE

PRINOLINE DRIVE

SOUTHAMPTON DR

SHEYENNE ST

ARTHEILA LANE

TREYLEE WAY

PLAYGROUND

FAISON FARM CIR

PONDVIEW

PARK A

EXISTING POND

SCM #3

CARIBBEAN CT

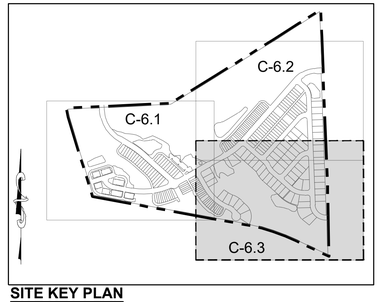
BALLASTED DR
60' PUBLIC R/W

NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY

LEWIS LANDING SUBDIVISION, PHASE 2
B.M. 2001, PG. 1390

N/F
BROOKEFIELD STATION DEVELOPMENT, LLC
B.M. 1997, PG. 1014, TRACT 2B
D.B. 11783, PG. 1

TOP OF BANKS
FEATURE H
WETLAND WH-1
WETLAND WH-2
STREAM SCH
RETAINING WALL (TYP.)
50' EXISTING BUFFER OF POND
25' STREAM BUFFER ZONE 2
30' STREAM BUFFER ZONE 1
WTLD
WTLB
FHA
PIPE #9
PIPE #10
PIPE #11
PIPE #12
PIPE #13
PIPE #14
PIPE #31
PIPE #48
PIPE #49
PIPE #50
PIPE #51
PIPE #52
PIPE #53
PIPE #54
PIPE #55
PIPE #56
PIPE #57
PIPE #58
PIPE #60
PIPE #61
SSMH #9
SSMH #10
SSMH #11
SSMH #12
SSMH #13
SSMH #14
SSMH #31
SSMH #48
SSMH #49
SSMH #50
SSMH #51
SSMH #52
SSMH #53
SSMH #54
SSMH #55
SSMH #56
SSMH #57
SSMH #58
SSMH #60
12" DIP W/L
8" DIP W/L
8"x8" DIP TEE W / (3) 8" GV
4" SANITARY SEWER C/O & SERVICE (TYP.)
3/4" WATER METER & SERVICE (TYP.)
CLEAN OUT
2" BLOW-OFF ASSEMBLY
SS
W




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-6.0 FOR LEGEND

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

A. **TOWN CERTIFICATION** , THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

# PARTIAL UTILITY PLAN III

DRAWING SHEET

**C-6.3**

| SSMH TABLE | | | | | |
|---|---|---|---|---|---|
| SSMH NO | SIZE | TOP | INV. IN | INV. OUT | DEPTH |
| 01 | 4' | 238.70 | | 231.74 NW | 6.97 |
| 02 | 4' | 234.55 | 227.37 SE | 227.17 NW | 7.38 |
| 03 | 5' | 231.10 | 224.57 SE | 224.37 NW | 6.75 |
| 04 | 5' | 227.44 | 217.95 SE | 217.75 W | 9.69 |
| 05 | 5' | 222.45 | 213.29 E | 213.09 W | 9.36 |
| 06 | 5' | 218.77 | 211.19 E | 210.99 SW | 7.78 |
| 07 | 4' | 213.18 | 207.93 NE<br>207.93 SE | 207.73 SW | 5.45 |
| 08 | 4' | 214.59 | 206.69 NE | 206.49 W | 8.10 |
| 09 | 4' | 253.90 | | 248.21 NW | 5.71 |
| 10 | 4' | 252.67 | 245.00 SE | 244.80 NW | 7.87 |
| 11 | 4' | 251.06 | 242.63 SE | 242.43 NW | 8.63 |
| 12 | 4' | 249.50 | 242.01 SE | 241.81 NW | 7.68 |
| 13 | 4' | 247.56 | 239.87 SE | 239.67 NW | 7.90 |
| 14 | 4' | 244.64 | 233.01 SE | 232.81 NW | 11.83 |
| 15 | 4' | 234.51 | 224.00 SE | 223.80 SW | 10.71 |
| 16 | 5' | 238.83 | 222.64 NE | 222.44 SW | 16.40 |
| 17 | 4' | 240.53 | | 234.67 NW | 6.02 |
| 18<br>OUTSIDE DROP | 5' | 239.11 | 233.25 SE<br>222.16 NE | 221.96 W | 17.15 |
| 19 | 5' | 238.86 | 221.66 E | 221.46 W | 17.40 |
| 20 | 5' | 236.63 | 221.10 E | 220.90 W | 15.73 |
| 21 | 5' | 232.49 | 220.32 E | 220.12 W | 12.37 |
| 22 | 5' | 231.19 | 217.98 E | 217.78 W | 13.41 |
| 23 | 5' | 230.67 | 217.24 E | 217.04 W | 13.63 |
| 24 | 5' | 230.92 | 215.89 E | 215.69 W | 15.23 |
| 25 | 5' | 229.82 | 215.35 E | 215.15 NW | 14.67 |
| 26 | 5' | 228.65 | 214.85 SE | 214.65 NW | 14.00 |
| 27 | 4' | 228.78 | | 222.98 W | 5.80 |
| 28 | 5' | 227.97 | 214.40 SE<br>214.40 E | 214.20 W | 13.77 |
| 29 | 5' | 228.80 | 213.54 E | 213.34 N | 15.46 |
| 30 | 5' | 228.61 | 212.94 S | 212.74 NW | 15.87 |
| 31 | 4' | 242.27 | | 236.43 NE | 5.83 |
| 32 | 4' | 245.38 | 236.00 SW | 235.80 NE | 9.58 |
| 33 | 4' | 246.94 | 235.18 SE<br>235.18 SW | 234.98 NE | 11.96 |
| 34 | 5' | 247.82 | 233.95 SW | 233.75 NE | 14.07 |
| 35 | 5' | 245.27 | 232.59 SW | 232.39 NE | 12.87 |
| 36 | 4' | 241.02 | 231.20 SW | 231.00 NE | 10.02 |
| 37 | 4' | 238.99 | 229.80 SW<br>229.80 SE | 229.60 NE | 9.39 |
| 38 | 4' | 238.87 | 229.12 SW | 228.92 SE | 9.95 |
| 39 | 4' | 235.83 | 228.45 NW | 228.25 NE | 7.59 |
| 40 | 4' | 237.93 | 228.03 SW | 227.83 N | 10.10 |
| 41 | 5' | 243.36 | 227.66 S | 227.46 E | 15.89 |
| 42 | 6' | 246.76 | 227.23 W | 227.03 N | 19.73 |
| 43 | 4' | 241.32 | 232.00 SE | 231.80 NW | 9.52 |
| 44 | 4' | 242.93 | 233.04 S | 232.84 NW | 10.09 |
| 45 | 4' | 245.09 | 237.40 S | 237.20 N | 7.89 |

| SSMH TABLE | | | | | |
|---|---|---|---|---|---|
| SSMH NO | SIZE | TOP | INV. IN | INV. OUT | DEPTH |
| 46 | 4' | 250.11 | 241.07 S<br>241.07 W | 240.87 N | 9.23 |
| 47 | 5' | 260.19 | 246.52 S | 246.32 N | 13.87 |
| 48 | 5' | 266.90 | 248.18 S | 247.98 N | 18.92 |
| 49 | 4' | 259.03 | 249.87 S | 249.67 N | 9.36 |
| 50 | 4' | 259.33 | 250.96 SE | 250.76 N | 8.57 |
| 51 | 4' | 259.70 | | 251.96 NW | 7.80 |
| 52 | 4' | 258.01 | | 250.75 W | 7.26 |
| 53 | 4' | 256.80 | 246.53 E | 246.33 NW | 10.47 |
| 54 | 4' | 255.90 | 245.92 SE | 245.72 NW | 10.19 |
| 55 | 4' | 255.27 | 244.97 SE<br>244.97 NE | 244.77 NW | 10.50 |
| 56 | 5' | 255.96 | 244.07 SE | 243.87 NW | 12.09 |
| 57 | 5' | 256.38 | 243.44 SE | 243.24 NW | 13.14 |
| 58 | 5' | 254.94 | 242.88 SE<br>242.88 NE | 242.68 NW | 12.28 |
| 59 | 4' | 247.42 | 238.77 SE | 238.57 NW | 8.85 |
| 60 | 4' | 263.00 | | 253.36 SW | 9.67 |
| 61 | 4' | 255.28 | 248.24 NE | 248.04 SW | 7.24 |
| 62 | 4' | 256.65 | | 249.95 SW | 6.91 |
| 63 | 4' | 256.79 | | 251.09 NE | 5.70 |
| 64 | 4' | 255.58 | 247.50 SW | 247.30 NE | 8.28 |
| 65 | 4' | 253.40 | 244.30 SW | 244.10 E | 9.30 |
| 98 (EX) | 4' | 215.73 | 205.10 SE<br>205.10 E | 204.90 NW | 10.83 |
| 30043 (EX) | 4' | 236.67 | 226.33 S | 226.13 N | 10.54 |

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 01 | PVC - SDR 26 | 8" | 242 | 231.74 | 227.37 | 1.80% |
| 02 | PVC - SDR 26 | 8" | 201 | 227.17 | 224.57 | 1.29% |
| 03 | PVC - SDR 26 | 8" | 196 | 224.37 | 217.95 | 3.28% |
| 04 | PVC - SDR 26 | 8" | 133 | 217.75 | 213.29 | 3.36% |
| 05 | PVC - SDR 35 | 8" | 263 | 213.09 | 211.19 | 0.72% |
| 06 | PVC - SDR 35 | 8" | 160 | 210.99 | 207.93 | 1.91% |
| 07 | PVC - SDR 35 | 8" | 207 | 207.73 | 206.69 | 0.50% |
| 08 | PVC - SDR 35 | 8" | 279 | 206.49 | 205.10 | 0.50% |
| 09 | PVC - SDR 26 | 8" | 106 | 248.21 | 245.00 | 3.03% |
| 10 | PVC - SDR 26 | 8" | 85 | 244.80 | 242.63 | 2.57% |
| 11 | PVC - SDR 26 | 8" | 83 | 242.43 | 242.01 | 0.50% |
| 12 | PVC - SDR 26 | 8" | 76 | 241.81 | 239.87 | 2.57% |
| 13 | PVC - SDR 26 | 8" | 86 | 239.67 | 233.01 | 7.73% |
| 14 | PVC - SDR 26 | 8" | 264 | 232.81 | 224.00 | 3.34% |
| 15 | PVC - SDR 26 | 8" | 233 | 223.80 | 222.64 | 0.50% |
| 16 | PVC - SDR 26 | 8" | 56 | 222.44 | 222.16 | 0.50% |
| 17 | PVC - SDR 26 | 8" | 114 | 234.67 | 233.25 | 1.25% |
| 18 | PVC - SDR 26 | 8" | 59 | 221.96 | 221.66 | 0.50% |
| 19 | PVC - SDR 26 | 8" | 72 | 221.46 | 221.10 | 0.50% |
| 20 | PVC - SDR 26 | 8" | 116 | 220.90 | 220.32 | 0.50% |
| 21 | PVC - SDR 26 | 8" | 106 | 220.12 | 217.98 | 2.02% |
| 22 | PVC - SDR 26 | 8" | 108 | 217.78 | 217.24 | 0.50% |
| 23 | PVC - SDR 26 | 8" | 230 | 217.04 | 215.89 | 0.50% |
| 24 | PVC - SDR 26 | 8" | 68 | 215.69 | 215.35 | 0.50% |
| 25 | PVC - SDR 26 | 8" | 59 | 215.15 | 214.85 | 0.50% |
| 26 | PVC - SDR 26 | 8" | 50 | 214.65 | 214.40 | 0.50% |
| 27 | PVC - SDR 26 | 8" | 113 | 222.98 | 214.40 | 7.57% |
| 28 | PVC - SDR 26 | 8" | 132 | 214.20 | 213.54 | 0.50% |
| 29 | PVC - SDR 26 | 8" | 79 | 213.34 | 212.94 | 0.50% |
| 30 | PVC - SDR 26 | 8" | 172 | 212.74 | 207.93 | 2.80% |
| 31 | PVC - SDR 26 | 8" | 87 | 236.43 | 236.00 | 0.50% |
| 32 | PVC - SDR 26 | 8" | 124 | 235.80 | 235.18 | 0.50% |
| 33 | PVC - SDR 26 | 8" | 207 | 234.98 | 233.95 | 0.50% |
| 34 | PVC - SDR 26 | 8" | 232 | 233.75 | 232.59 | 0.50% |
| 35 | PVC - SDR 26 | 8" | 239 | 232.39 | 231.20 | 0.50% |
| 36 | PVC - SDR 26 | 8" | 240 | 231.00 | 229.80 | 0.50% |
| 37 | PVC - SDR 26 | 12" | 96 | 229.60 | 229.12 | 0.50% |
| 38 | PVC - SDR 26 | 12" | 168 | 228.92 | 228.45 | 0.28% |
| 39 | PVC - SDR 35 | 12" | 77 | 228.25 | 228.03 | 0.28% |
| 40 | PVC - SDR 26 | 12" | 61 | 227.83 | 227.66 | 0.28% |
| 41 | PVC - SDR 26 | 12" | 84 | 227.46 | 227.23 | 0.28% |
| 42 | PVC - SDR 35 | 12" | 250 | 227.03 | 226.33 | 0.28% |
| 43 | PVC - SDR 26 | 8" | 106 | 231.80 | 229.80 | 1.88% |
| 44 | PVC - SDR 26 | 8" | 59 | 232.84 | 232.00 | 1.43% |
| 45 | PVC - SDR 26 | 8" | 79 | 237.20 | 233.04 | 5.26% |

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 46 | PVC - SDR 26 | 8" | 188 | 240.87 | 237.40 | 1.85% |
| 47 | PVC - SDR 26 | 8" | 281 | 246.32 | 241.07 | 1.87% |
| 48 | PVC - SDR 26 | 8" | 292 | 247.98 | 246.52 | 0.50% |
| 49 | PVC - SDR 26 | 8" | 299 | 249.67 | 248.18 | 0.50% |
| 50 | PVC - SDR 26 | 8" | 178 | 250.76 | 249.87 | 0.50% |
| 51 | PVC - SDR 26 | 8" | 65 | 251.96 | 250.96 | 1.53% |
| 52 | PVC - SDR 26 | 8" | 93 | 250.75 | 246.53 | 4.55% |
| 53 | PVC - SDR 26 | 8" | 82 | 246.33 | 245.92 | 0.50% |
| 54 | PVC - SDR 26 | 8" | 150 | 245.72 | 244.97 | 0.50% |
| 55 | PVC - SDR 26 | 8" | 140 | 244.77 | 244.07 | 0.50% |
| 56 | PVC - SDR 26 | 8" | 85 | 243.87 | 243.44 | 0.50% |
| 57 | PVC - SDR 26 | 8" | 73 | 243.24 | 242.88 | 0.50% |
| 58 | PVC - SDR 26 | 8" | 187 | 242.68 | 238.77 | 2.10% |
| 59 | PVC - SDR 26 | 8" | 108 | 238.57 | 235.18 | 3.13% |
| 60 | PVC - SDR 26 | 8" | 362 | 253.36 | 244.97 | 2.32% |
| 61 | PVC - SDR 26 | 8" | 155 | 248.04 | 242.88 | 3.34% |
| 62 | PVC - SDR 26 | 8" | 257 | 249.95 | 248.24 | 0.66% |
| 63 | PVC - SDR 26 | 8" | 172 | 251.09 | 247.50 | 2.09% |
| 64 | PVC - SDR 26 | 8" | 50 | 247.30 | 244.30 | 6.06% |
| 65 | PVC - SDR 26 | 8" | 81 | 244.10 | 241.07 | 3.76% |

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

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BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| STRONG ROCK PROJECT | | | | | |
|---|---|---|---|---|---|
| NOT FOR CONSTRUCTION | SCALE | AS SHOWN | DESIGNED BY | JWL | |
| | | | DRAWN BY | SRG | |
| | | | CHECKED BY | JWL | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**SANITARY SEWER TABLE**

DRAWING SHEET
**C-6.4**

**17 OF 112**

PROGRESS PLOT DATE: 1/16/2024

## UTILITY NOTES

1. THE STORM DRAINAGE LAYOUT IS CONCEPTUAL AND SUBJECT TO CHANGE. APPROVAL BY TOWN STAFF IS REQUIRED.
2. THE STORM DRAINAGE SYSTEM SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH TOWN OF KNIGHTDALE UDO AND ENGINEERING STANDARDS & SPECIFICATIONS.
3. THE STORMWATER PLAN SHALL PROVIDE FOR ADEQUATE NITROGEN REDUCTION AND ATTENUATION OF STORMWATER RUNOFF.
4. FENCING AND LANDSCAPING FOR ALL PROPOSED STORMWATER CONTROL MEASURES SHALL MEET TOWN OF KNIGHTDALE REQUIREMENTS FOR EACH TYPE OF MEASURE PROPOSED.
5. STORMWATER CONTROL MEASURES SHALL BE LOCATED IN OPEN SPACE AREAS DEDICATED TO AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION (HOA).
6. A MAINTENANCE PLAN ALONG WITH A MEMORANDUM OF AGREEMENT MUST BE DEVELOPED FOR ALL STORMWATER CONTROL MEASURES (SCMS) INSTALLED TO ACHIEVE NITROGEN LOADING AND/OR FLOW ATTENUATING REQUIREMENTS AS PART OF THIS PROJECT. THIS MAINTENANCE PLAN IS REQUIRED TO BE RECORDED AT THE WAKE COUNTY REGISTER OF DEEDS PRIOR TO PLAT RECORDATION. PROOF OF SAID RECORDING WILL BE REQUIRED AT THE TIME OF PLAT RECORDATION.
7. MAINTENANCE AND ACCESS EASEMENTS ARE REQUIRED FOR ALL SCMS.
8. AT THE CONCLUSION OF THE PROJECT ALL SCMS INSTALLED ON-SITE MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AND THE TOWN OF KNIGHTDALE ENGINEERING DEPT. MUST RECEIVE ALL AS-BUILT DRAWINGS PRIOR TO RECEIVING THE CERTIFICATE OF OCCUPANCY.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF KNIGHTDALE, CITY OF RALEIGH AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS.

## LEGEND:

- EX. MAJOR CONTOURS
- EX. MINOR CONTOURS
- PROP. MAJOR CONTOURS
- PROP. MINOR CONTOURS
- STORM DRAIN LINE
- FLARED END SECTION
- CATCH BASIN
- STORM DRAIN MANHOLE
- YARD INLET
- EXISTING PROPERTY LINE
- STREET LIGHT
- SIGN
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- STANDARD CURB & GUTTER
- DRAINAGE EASEMENT
- CONCRETE SIDEWALK
- WETLAND (WTLD)

GRAPHIC SCALE
200 0 100 200 400 800
( IN FEET )
1 inch = 200 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**OVERALL GRADING AND DRAINAGE PLAN**

DRAWING SHEET
**C-7.0**

PROGRESS PLOT DATE: 1/16/2024

**A. TOWN CERTIFICATION** . THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

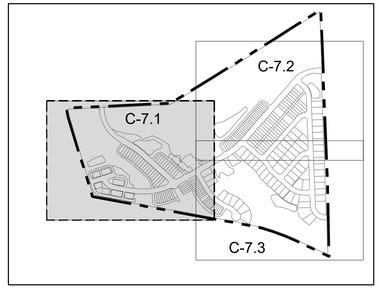
THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.




**SITE KEY PLAN**

**LEGEND:**
SEE SHEET C-7.0 FOR LEGEND

WIDEWATERS PARKWAY
GOODLEAF
PONDVIEW
LAKEWALK
SOUTHAMPTON DR
GLADYS
PARK B
AMENITY CENTER WITH POOL AREA
PARK A
NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY
SCM #1
SCM #2
STREAM SA
STREAM SCE
STREAM SCG
STREAM SCH
STREAM SHA
CREEK CROSSES PROPERTY LINE
WETLAND WA-3
WETLAND WG-1
WETLAND WG-2
TOP OF BANKS
EMERGENCY SPILLWAY: 221.5
EMERGENCY SPILLWAY: 220.5
INV OUT: 220.10
INV IN: 221.14
ELECTRIC EASMT
MATCH LINE
FOR CONTINUATION, SEE C-7.2
THE TOWN OF KNIGHTDALE
D.B. 6389, PG. 492
B.M. 1994, PG. 1087, TRACT E
EX. CONCRETE MONUMENT

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL


STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


STRONG ROCK PROJECT

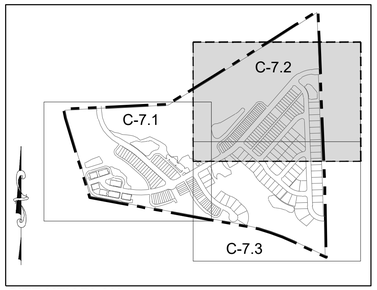
| | |
|---|---|
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL GRADING AND DRAINAGE PLAN I**

DRAWING SHEET
**C-7.1**

**19 OF 112**

PROGRESS PLOT DATE: 1/16/2024




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-7.0 FOR LEGEND

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL


STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL GRADING AND DRAINAGE PLAN II**

DRAWING SHEET
**C-7.2**

**20 OF 112**

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

MATCH LINE
FOR CONTINUATION, SEE C-7.1

MATCH LINE
FOR CONTINUATION, SEE C-7.3

PROGRESS PLOT DATE: 1/16/2024

FOR CONTINUATION, SEE C-7.2

MATCH LINE

SOUTHAMPTON DR

PRINOLINE DRIVE

SHEYENNE ST

ARTHEILA LANE

TREYLEE WAY

PLAYGROUND

CARIBBEAN CT

BALLASTED DR
60' PUBLIC R/W

FAISON FARM CIR

PONDVIEW

PARK A

NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY

EXISTING POND

SCM #3

EMERGENCY SPILLWAY: 250.0

50' EXISTING BUFFER OF POND

WETLAND WH-1

WETLAND WH-2

STREAM SCH

WTLD

CB #42 CB #39 CB #37 CB #36 CB #56 CB #57 CB #58 CB #53 CB #59 CB #55 CB #52 CB #60 CB #54 CB #62 CB #71 CB #75 CB #61 CB #74 CB #73 CB #76 CB #72 CB #70 CB #67 CB #69 CB #68 CB #66 CB #65 CB #64 CB #63 CB #29 CB #28 CB #25 CB #24 CB #23 CB #21 CB #22 CB #20 CB #19

PIPE #107 PIPE #110 PIPE #109 PIPE #108 PIPE #079 PIPE #081 PIPE #080 PIPE #078 PIPE #076 PIPE #082 PIPE #075 PIPE #084 PIPE #083 PIPE #077 PIPE #085 PIPE #094 PIPE #095 PIPE #096 PIPE #097 PIPE #098 PIPE #100 PIPE #099 PIPE #101 PIPE #091 PIPE #093 PIPE #090 PIPE #092 PIPE #089 PIPE #102 PIPE #087 PIPE #088 PIPE #086 PIPE #074 PIPE #035 PIPE #034 PIPE #030 PIPE #029 PIPE #028 PIPE #027 PIPE #019 PIPE #026 PIPE #025 PIPE #024 PIPE #018 PIPE #023 PIPE #017

FES #306 FES #307

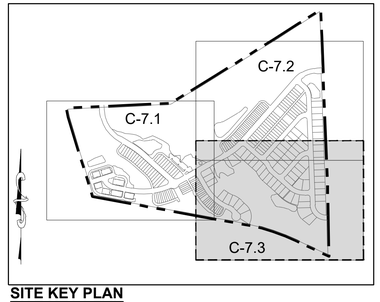
SDMH #101

OCS #403

DI #240 DI #239 DI #230 DI #229 DI #231 DI #255

INV OUT: 224.97
INV IN: 225.32

LW: 232.15 BW: 230.65
LW: 232.15 BW: 231.65
LW: 235.07 BW: 231.57
LW: 235.7 BW: 229.87
LW: 235.1 BW: 229.95
LW: 233.6 BW: 229.45
LW: 233.6 BW: 229.35
LW: 238.46 BW: 229.06
LW: 238.56 BW: 229.16
LW: 238.66 BW: 229.26
LW: 238.76 BW: 229.36
LW: 238.46 BW: 229.06
LW: 237.5 BW: 227.85
LW: 233.09 BW: 228.19
LW: 232.59 BW: 227.4
LW: 235.1 BW: 228.56
LW: 239.56 BW: 230.53
LW: 238.39 BW: 228.19
LW: 235.19 BW: 227.07
LW: 248.41 BW: 248.41
LW: 248.91 BW: 248.91
LW: 237.64 BW: 237.4
LW: 253.57 BW: 247.37
LW: 248.56 BW: 248.32
LW: 248.06 BW: 248.07
LW: 270.24 BW: 270.14
LW: 270.38 BW: 270.28
LW: 274.80 BW: 274.36
LW: 274.90 BW: 270.80
LW: 274.45 BW: 267.77
LW: 274.59 BW: 268.16
LW: 275.77 BW: 265.37
LW: 274.90 BW: 264.25
LW: 265.48 BW: 265.08




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-7.0 FOR LEGEND

LEWIS LANDING
SUBDIVISION, PHASE 2
B.M. 2001, PG. 1390

N/F
BROOKEFIELD STATION
DEVELOPMENT, LLC
B.M. 1997, PG. 1014, TRACT 2B
D.B. 11783, PG. 1

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | DESIGNED BY | JWL |
| | SCALE AS SHOWN | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL GRADING AND DRAINAGE PLAN III**

DRAWING SHEET
**C-7.3**

| CATCH BASIN TABLE | | | | |
|---|---|---|---|---|
| CB NO | SIZE | TOP | INV. IN | INV. OUT |
| 01 | 2' X 3' | 226.26 | | 222.07 SW |
| 02 | 2' X 3' | 229.63 | 220.91 NW | 220.71 SE |
| 03 | 2' X 3' | 231.10 | 220.29 SE<br>220.29 NW | 220.09 NE |
| 04 | 2' X 3' | 231.14 | 218.52 SW | 218.32 E |
| 05 | 2' X 3' | 233.97 | 230.32 NE<br>230.32 SE | 230.12 NW |
| 06 | 2' X 3' | 233.97 | | 230.49 SW |
| 07 | 2' X 3' | 237.05 | 233.40 NE | 233.20 NW |
| 08 | 2' X 3' | 237.04 | | 233.57 SW |
| 09 | 2' X 3' | 237.63 | | 234.19 N |
| 10 | 2' X 3' | 237.70 | 234.07 S | 233.87 W |
| 11 | 2' X 3' | 231.05 | | 226.68 N |
| 12 | 2' X 3' | 231.05 | 226.56 E<br>226.56 S | 226.36 W |
| 13 | 2' X 3' | 230.57 | | 225.93 N |
| 14 | 2' X 3' | 230.45 | 225.78 S<br>225.78 E | 225.58 W |
| 15 | 2' X 3' | 228.06 | | 224.62 W |
| 16 | 2' X 3' | 227.65 | 224.22 E | 224.02 NW |
| 17 | 2' X 3' | 238.13 | | 231.80 NW |
| 18 | 2' X 3' | 238.14 | 229.61 SE | 229.41 NE |
| 19 | 2' X 3' | 251.09 | 245.86 SW | 245.66 NW |
| 20 | 2' X 3' | 249.45 | 245.24 SE | 245.04 NW |

| CATCH BASIN TABLE | | | | |
|---|---|---|---|---|
| CB NO | SIZE | TOP | INV. IN | INV. OUT |
| 21 | 2' X 3' | 246.78 | | 241.93 NE |
| 22 | 2' X 3' | 246.90 | 240.00 SE<br>240.00 SW | 239.80 NW |
| 23 | 2' X 3' | 241.42 | | 233.29 NE |
| 24 | 2' X 3' | 241.62 | 233.14 SW<br>233.14 SE | 232.94 NW |
| 25 | 2' X 3' | 235.97 | 229.08 SE | 228.88 SW |
| 26 | 2' X 3' | 236.02 | 228.76 NE | 228.56 W |
| 27 | 2' X 3' | 234.65 | 227.58 E | 227.38 NW |
| 28 | 2' X 3' | 233.69 | | 226.88 NW |
| 29 | 2' X 3' | 233.69 | 226.72 SE | 226.52 SW |
| 30 | 2' X 3' | 234.60 | 225.66 NE<br>225.66 SE | 225.46 SW |
| 31 | 2' X 3' | 256.32 | | 252.88 NW |
| 32 | 2' X 3' | 256.88 | 252.73 SE | 252.53 SW |
| 33 | 2' X 3' | 255.45 | | 251.91 NW |
| 34 | 2' X 3' | 256.02 | 251.72 SE<br>251.72 NE | 251.52 SW |
| 35 | 2' X 3' | 254.72 | | 250.98 NW |
| 36 | 2' X 3' | 254.26 | 250.46 SE<br>250.46 NE | 250.26 W |
| 37 | 2' X 3' | 252.08 | 247.77 E | 247.57 SW |
| 38 | 2' X 3' | 252.07 | 246.94 NE | 246.74 NW |
| 39 | 2' X 3' | 247.88 | 243.22 SE<br>243.22 NE | 243.02 NW |
| 40 | 2' X 3' | 246.87 | | 240.06 SW |

| CATCH BASIN TABLE | | | | |
|---|---|---|---|---|
| CB NO | SIZE | TOP | INV. IN | INV. OUT |
| 41 | 2' X 3' | 246.84 | 239.67 SE<br>239.67 NE | 239.47 NW |
| 42 | 2' X 3' | 244.54 | | 241.10 NW |
| 43 | 2' X 3' | 244.53 | 240.93 SE | 240.73 NE |
| 44 | 2' X 3' | 246.59 | 237.63 SW<br>237.63 SE | 237.43 NW |
| 45 | 2' X 3' | 238.58 | | 235.19 NW |
| 46 | 2' X 3' | 238.58 | 235.01 SE | 234.81 SW |
| 47 | 2' X 3' | 239.10 | | 234.95 NW |
| 48 | 2' X 3' | 239.16 | 234.14 SE<br>234.14 NE | 233.94 SW |
| 49 | 2' X 3' | 240.71 | | 234.40 NW |
| 50 | 2' X 3' | 240.71 | 233.13 NE<br>233.13 SE | 232.93 SW |
| 51 | 2' X 3' | 243.81 | | 235.97 NW |
| 52 | 2' X 3' | 255.95 | | 252.24 NE |
| 53 | 2' X 3' | 256.52 | 252.09 SW | 251.89 SE |
| 54 | 2' X 3' | 255.39 | 251.36 NW | 251.16 E |
| 55 | 2' X 3' | 255.84 | 250.88 W | 250.68 SE |
| 56 | 2' X 3' | 263.16 | | 259.06 SE |
| 57 | 2' X 3' | 263.16 | 258.92 NW | 258.72 SW |
| 58 | 2' X 3' | 259.40 | | 255.43 SE |
| 59 | 2' X 3' | 259.40 | 255.31 NW<br>255.31 NE | 255.11 SW |
| 60 | 2' X 3' | 255.85 | 250.56 NE<br>250.56 NW | 250.36 S |

| CATCH BASIN TABLE | | | | |
|---|---|---|---|---|
| CB NO | SIZE | TOP | INV. IN | INV. OUT |
| 61 | 2' X 3' | 254.94 | | 251.51 NE |
| 62 | 2' X 3' | 254.94 | 251.39 SW<br>250.09 N | 249.89 SE |
| 63 | 2' X 3' | 260.08 | 255.34 NE | 255.14 NW |
| 64 | 2' X 3' | 259.68 | | 255.73 N |
| 65 | 2' X 3' | 259.62 | 254.65 S<br>254.65 SE | 254.45 NW |
| 66 | 2' X 3' | 259.23 | 254.10 SE | 253.90 N |
| 67 | 2' X 3' | 258.69 | 253.30 S | 253.10 W |
| 68 | 2' X 3' | 258.66 | 252.98 E | 252.78 NW |
| 69 | 2' X 3' | 258.26 | 252.52 SE | 252.32 N |
| 70 | 2' X 3' | 263.40 | | 259.96 W |
| 71 | 2' X 3' | 263.41 | 259.53 E | 259.33 S |
| 72 | 2' X 3' | 259.51 | 254.67 N | 254.47 SW |
| 73 | 2' X 3' | 258.29 | 252.20 S<br>252.20 NE | 252.00 W |
| 74 | 2' X 3' | 257.25 | 251.60 E | 251.40 NW |
| 75 | 2' X 3' | 255.90 | 249.30 SE<br>249.30 NW | 249.10 SW |
| 76 | 2' X 3' | 255.88 | 248.97 NE | 248.77 SW |
| 77 | 2' X 3' | 261.47 | | 258.04 W |
| 78 | 2' X 3' | 261.48 | 257.92 E | 257.72 N |
| 79 | 2' X 3' | 256.77 | | 252.49 W |
| 80 | 2' X 3' | 256.78 | 252.00 E<br>252.00 S | 251.80 N |

| CATCH BASIN TABLE | | | | |
|---|---|---|---|---|
| CB NO | SIZE | TOP | INV. IN | INV. OUT |
| 81 | 2' X 3' | 251.83 | 247.62 S | 247.42 NW |
| 82 | 2' X 3' | 252.07 | 246.88 SE | 246.68 N |
| 83 | 2' X 3' | 250.68 | 246.00 S | 245.80 NE |
| 84 | 2' X 3' | 248.24 | | 244.64 W |
| 85 | 2' X 3' | 248.23 | 243.23 SW<br>243.23 E | 243.03 N |
| 86 | 2' X 3' | 244.58 | | 240.37 W |
| 87 | 2' X 3' | 244.55 | 239.60 S<br>239.60 E | 239.40 N |
| 88 | 2' X 3' | 242.28 | 234.68 SW | 234.48 NE |

| DROP INLET TABLE | | | | |
|---|---|---|---|---|
| DI NO | SIZE | TOP | INV. IN | INV. OUT |
| 201 | 2' X 3' | 241.56 | | 238.12 W |
| 202 | 2' X 3' | 237.74 | 234.30 E | 233.95 W |
| 203 | 2' X 3' | 235.92 | 232.06 E | 231.82 N |
| 204 | 2' X 3' | 232.00 | 228.25 S | 228.05 N |
| 205 | 2' X 3' | 231.98 | 227.24 E<br>227.24 S | 227.04 W |
| 206 | 2' X 3' | 230.99 | | 227.28 N |
| 207 | 2' X 3' | 230.97 | 225.06 E<br>226.55 S | 224.86 N |
| 208 | 2' X 3' | 230.31 | 224.47 S | 224.27 NW |
| 209 | 2' X 3' | 229.86 | 224.04 SE | 223.84 W |
| 210 | 2' X 3' | 229.13 | 223.30 E | 223.10 NW |
| 211 | 2' X 3' | 228.88 | 222.61 SE | 222.41 N |
| 212 | 2' X 3' | 228.49 | 221.02 S | 220.82 W |
| 213 | 2' X 3' | 228.22 | 219.22 E | 219.02 W |
| 214 | 2' X 3' | 229.67 | | 226.24 W |
| 215 | 2' X 3' | 230.51 | 225.55 E | 225.35 W |
| 216 | 2' X 3' | 230.55 | 224.02 E | 223.82 NW |
| 217 | 2' X 3' | 229.87 | 223.46 SE | 223.26 N |
| 218 | 2' X 3' | 228.51 | 222.39 S | 222.19 NE |
| 219 | 2' X 3' | 228.26 | 221.92 SW | 221.72 E |
| 220 | 2' X 3' | 227.71 | 223.78 SE | 223.58 N |

| DROP INLET TABLE | | | | |
|---|---|---|---|---|
| DI NO | SIZE | TOP | INV. IN | INV. OUT |
| 221 | 2' X 3' | 227.98 | 221.27 W<br>221.27 S | 221.07 E |
| 222 | 2' X 3' | 228.04 | 218.29 W<br>218.29 E | 218.09 N |
| 223 | 2' X 3' | 230.42 | | 226.98 NW |
| 224 | 2' X 3' | 228.82 | 225.39 SE | 225.19 NW |
| 225 | 2' X 3' | 227.85 | 224.41 SE | 224.21 NW |
| 226 | 2' X 3' | 226.91 | 223.47 SE | 223.27 N |
| 227 | 2' X 3' | 226.38 | 222.70 S | 222.50 NE |
| 228 | 2' X 3' | 225.65 | 221.90 NE<br>221.90 SW | 221.70 SE |
| 229 | 2' X 3' | 244.13 | | 240.92 NW |
| 230 | 2' X 3' | 248.73 | 240.65 SE | 240.45 NW |
| 231 | 2' X 3' | 246.81 | 239.85 SE | 239.65 NW |
| 232 | 2' X 3' | 243.68 | 238.97 SE | 238.77 NW |
| 233 | 2' X 3' | 239.96 | 234.25 SE | 234.05 NW |
| 234 | 2' X 3' | 235.57 | 226.88 SE | 226.68 NW |
| 235 | 2' X 3' | 235.52 | 225.03 NE<br>225.03 SW<br>225.03 SE | 224.83 NW |
| 236 | 2' X 3' | 233.68 | 224.32 SE | 224.12 NW |
| 237 | 2' X 3' | 232.31 | 223.74 SE | 223.54 NW |
| 238 | 2' X 3' | 230.27 | 219.76 SE | 219.56 NW |
| 239 | 2' X 3' | 249.99 | | 246.55 NE |
| 240 | 2' X 3' | 250.97 | 246.21 SW | 246.01 NE |

| DROP INLET TABLE | | | | |
|---|---|---|---|---|
| DI NO | SIZE | TOP | INV. IN | INV. OUT |
| 241 | 2' X 3' | 243.75 | 233.68 SE<br>232.01 NE | 231.81 NW |
| 242 | 2' X 3' | 238.94 | 231.44 SE | 231.24 W |
| 243 | 2' X 3' | 236.46 | 230.96 E | 230.76 SW |
| 244 | 2' X 3' | 234.83 | 230.30 NE | 230.10 SW |
| 245 | 2' X 3' | 236.71 | 229.44 NE | 229.24 SW |
| 246 | 2' X 3' | 236.24 | 228.46 NE | 228.26 SW |
| 247 | 2' X 3' | 234.07 | | 228.25 NE |
| 248 | 2' X 3' | 234.95 | 226.47 NE<br>226.47 SW<br>226.47 SE | 226.27 NW |
| 249 | 2' X 3' | 248.60 | | 244.82 SW |
| 250 | 2' X 3' | 247.89 | 244.05 NE | 243.85 SW |
| 251 | 2' X 3' | 247.17 | | 243.56 NE |
| 252 | 2' X 3' | 243.03 | 239.00 SW | 238.80 NE |
| 253 | 2' X 3' | 240.86 | 236.97 SW | 236.77 NE |
| 254 | 2' X 3' | 242.23 | 236.22 S<br>236.22 SW | 236.02 NE |
| 255 | 2' X 3' | 258.96 | | 255.52 SW |

| FES TABLE | | | | |
|---|---|---|---|---|
| FES NO | SIZE | TOP | INV. IN | INV. OUT |
| 301 | 30" | 219.88 | | 217.00 S |
| 302 | 15" | 216.52 | | 215.00 E |
| 303 | 30" | 220.88 | | 218.00 W |
| 304 | 36" | 221.42 | | 218.00 SE |
| 305 | 15" | 218.52 | | 217.00 SW |
| 306 | 30" | 249.88 | | 247.00 E |
| 307 | 15" | 246.52 | | 245.00 N |
| 308 | 30" | 225.87 | | 223.00 SE |
| 309 | 15" | 222.52 | | 221.00 SE |
| 310 | 30" | 236.88 | | 234.00 SW |
| 311 | 15" | 234.04 | | 232.52 S |

| SDMH TABLE | | | | |
|---|---|---|---|---|
| SDMH NO | SIZE | TOP | INV. IN | INV. OUT |
| 101 | 4' | 251.29 | 247.47 NE | 247.27 W |

| OCS TABLE | | | | |
|---|---|---|---|---|
| OCS NO | SIZE | TOP | INV. IN | INV. OUT |
| 401 | 4' X 4' | 218.00 | | 215.21 W |
| 402 | 4' X 4' | 220.00 | | 217.37 NE |
| 403 | 4' X 4' | 248.00 | | 245.24 S |
| 404 | 4' X 4' | 224.00 | | 221.22 NW |
| 405 | 4' X 4' | 236.00 | | 233.00 N |

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**STORM DRAINAGE TABLE**

DRAWING SHEET
**C-7.4**

**22 OF 112**

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 01 | RCP | 15" | 34 | 233.57 | 233.40 | 0.50% |
| 02 | RCP | 15" | 180 | 233.20 | 230.32 | 1.60% |
| 03 | RCP | 15" | 34 | 230.49 | 230.32 | 0.50% |
| 04 | RCP | 18" | 167 | 230.12 | 220.29 | 5.88% |
| 05 | RCP | 15" | 180 | 226.98 | 225.39 | 0.89% |
| 06 | RCP | 15" | 109 | 225.19 | 224.41 | 0.71% |
| 07 | RCP | 15" | 106 | 224.21 | 223.47 | 0.70% |
| 08 | RCP | 18" | 57 | 223.27 | 222.70 | 1.01% |
| 09 | RCP | 18" | 85 | 222.50 | 221.90 | 0.70% |
| 010 | RCP | 15" | 34 | 222.07 | 221.90 | 0.50% |
| 011 | RCP | 18" | 159 | 221.70 | 220.91 | 0.50% |
| 012 | RCP | 18" | 84 | 220.71 | 220.29 | 0.50% |
| 013 | RCP | 24" | 34 | 220.09 | 218.52 | 4.61% |
| 014 | RCP | 30" | 64 | 218.32 | 218.00 | 0.50% |
| 015 | RCP | 18" | 34 | 231.80 | 229.61 | 6.51% |
| 016 | RCP | 24" | 81 | 229.41 | 225.03 | 5.39% |
| 017 | RCP | 15" | 54 | 240.92 | 240.65 | 0.50% |
| 018 | RCP | 15" | 121 | 240.45 | 239.85 | 0.50% |
| 019 | RCP | 15" | 136 | 239.65 | 238.97 | 0.50% |
| 020 | RCP | 18" | 125 | 238.77 | 234.25 | 3.60% |

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 021 | RCP | 18" | 145 | 234.05 | 226.88 | 4.94% |
| 022 | RCP | 18" | 35 | 226.68 | 225.03 | 4.76% |
| 023 | RCP | 15" | 67 | 246.55 | 246.21 | 0.50% |
| 024 | RCP | 18" | 30 | 246.01 | 245.86 | 0.50% |
| 025 | RCP | 18" | 85 | 245.66 | 245.24 | 0.50% |
| 026 | RCP | 18" | 92 | 245.04 | 240.00 | 5.47% |
| 027 | RCP | 15" | 30 | 241.93 | 240.00 | 6.49% |
| 028 | RCP | 18" | 136 | 239.80 | 233.14 | 4.89% |
| 029 | RCP | 15" | 30 | 233.29 | 233.14 | 0.50% |
| 030 | RCP | 18" | 141 | 232.94 | 229.08 | 2.74% |
| 031 | RCP | 18" | 24 | 228.88 | 228.76 | 0.50% |
| 032 | RCP | 18" | 56 | 228.56 | 227.58 | 1.75% |
| 033 | RCP | 18" | 34 | 227.38 | 225.66 | 5.12% |
| 034 | RCP | 15" | 34 | 226.88 | 226.72 | 0.50% |
| 035 | RCP | 18" | 170 | 226.52 | 225.66 | 0.50% |
| 036 | RCP | 18" | 88 | 225.46 | 225.03 | 0.50% |
| 037 | RCP | 30" | 101 | 224.83 | 224.32 | 0.50% |
| 038 | RCP | 36" | 75 | 224.12 | 223.74 | 0.50% |
| 039 | RCP | 36" | 147 | 223.54 | 219.76 | 2.58% |
| 040 | RCP | 36" | 131 | 219.56 | 218.00 | 1.19% |

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 041 | RCP | 15" | 57 | 217.37 | 217.00 | 0.64% |
| 042 | RCP | 15" | 138 | 226.24 | 225.55 | 0.50% |
| 043 | RCP | 15" | 265 | 225.35 | 224.02 | 0.50% |
| 044 | RCP | 15" | 73 | 223.82 | 223.46 | 0.50% |
| 045 | RCP | 18" | 174 | 223.26 | 222.39 | 0.50% |
| 046 | RCP | 18" | 53 | 222.19 | 221.92 | 0.50% |
| 047 | RCP | 24" | 89 | 221.72 | 221.27 | 0.50% |
| 048 | RCP | 15" | 41 | 224.62 | 224.22 | 0.99% |
| 049 | RCP | 15" | 47 | 224.02 | 223.78 | 0.50% |
| 050 | RCP | 15" | 102 | 223.58 | 221.27 | 2.26% |
| 051 | RCP | 24" | 58 | 221.07 | 218.29 | 4.78% |
| 052 | RCP | 15" | 120 | 238.12 | 234.30 | 3.17% |
| 053 | RCP | 18" | 60 | 233.95 | 232.06 | 3.17% |
| 054 | RCP | 18" | 124 | 231.82 | 228.25 | 2.89% |
| 055 | RCP | 18" | 22 | 228.05 | 227.24 | 3.71% |
| 056 | RCP | 15" | 24 | 234.19 | 234.07 | 0.50% |
| 057 | RCP | 18" | 157 | 233.87 | 227.24 | 4.22% |
| 058 | RCP | 24" | 95 | 227.04 | 226.56 | 0.50% |
| 059 | RCP | 15" | 24 | 226.68 | 226.56 | 0.50% |
| 060 | RCP | 24" | 116 | 226.36 | 225.78 | 0.50% |

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 061 | RCP | 18" | 30 | 225.93 | 225.78 | 0.50% |
| 062 | RCP | 24" | 104 | 225.58 | 225.06 | 0.50% |
| 063 | RCP | 18" | 25 | 227.28 | 226.55 | 3.00% |
| 064 | RCP | 24" | 78 | 224.86 | 224.47 | 0.50% |
| 065 | RCP | 24" | 46 | 224.27 | 224.04 | 0.50% |
| 066 | RCP | 24" | 81 | 223.84 | 223.30 | 0.67% |
| 067 | RCP | 24" | 28 | 223.10 | 222.61 | 1.75% |
| 068 | RCP | 24" | 85 | 222.41 | 221.02 | 1.64% |
| 069 | RCP | 30" | 48 | 220.82 | 219.22 | 3.34% |
| 070 | RCP | 30" | 44 | 219.02 | 218.29 | 1.65% |
| 071 | RCP | 30" | 72 | 218.09 | 217.00 | 1.51% |
| 072 | RCP | 15" | 43 | 215.21 | 215.00 | 0.50% |
| 073 | RCP | 36" | 92 | 221.14 | 220.10 | 1.13% |
| 074 | RCP | 36" | 71 | 225.32 | 224.97 | 0.50% |
| 075 | RCP | 15" | 30 | 252.24 | 252.09 | 0.50% |
| 076 | RCP | 15" | 106 | 251.89 | 251.36 | 0.50% |
| 077 | RCP | 18" | 57 | 251.16 | 250.88 | 0.50% |
| 078 | RCP | 18" | 24 | 250.68 | 250.56 | 0.50% |
| 079 | RCP | 15" | 24 | 259.06 | 258.92 | 0.61% |
| 080 | RCP | 18" | 162 | 258.72 | 255.31 | 2.10% |

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 081 | RCP | 15" | 24 | 255.43 | 255.31 | 0.50% |
| 082 | RCP | 18" | 156 | 255.11 | 250.56 | 2.91% |
| 083 | RCP | 24" | 55 | 250.36 | 250.09 | 0.50% |
| 084 | RCP | 15" | 24 | 251.51 | 251.39 | 0.50% |
| 085 | RCP | 24" | 117 | 249.89 | 249.30 | 0.50% |
| 086 | RCP | 15" | 37 | 255.52 | 255.34 | 0.50% |
| 087 | RCP | 18" | 81 | 255.14 | 254.65 | 0.60% |
| 088 | RCP | 15" | 27 | 255.73 | 254.65 | 4.00% |
| 089 | RCP | 18" | 71 | 254.45 | 254.10 | 0.50% |
| 090 | RCP | 18" | 118 | 253.90 | 253.30 | 0.50% |
| 091 | RCP | 18" | 24 | 253.10 | 252.98 | 0.50% |
| 092 | RCP | 18" | 53 | 252.78 | 252.52 | 0.50% |
| 093 | RCP | 24" | 24 | 252.32 | 252.20 | 0.50% |
| 094 | RCP | 15" | 24 | 259.96 | 259.53 | 1.78% |
| 095 | RCP | 18" | 135 | 259.33 | 254.67 | 3.46% |
| 096 | RCP | 24" | 53 | 254.47 | 252.20 | 4.31% |
| 097 | RCP | 24" | 79 | 252.00 | 251.60 | 0.50% |
| 098 | RCP | 24" | 101 | 251.40 | 249.30 | 2.07% |
| 099 | RCP | 30" | 25 | 249.10 | 248.97 | 0.50% |
| 100 | RCP | 30" | 136 | 248.77 | 247.47 | 0.96% |

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 101 | RCP | 30" | 53 | 247.27 | 247.00 | 0.50% |
| 102 | RCP | 15" | 48 | 245.24 | 245.00 | 0.50% |
| 103 | RCP | 15" | 30 | 252.88 | 252.73 | 0.50% |
| 104 | RCP | 15" | 162 | 252.53 | 251.72 | 0.50% |
| 105 | RCP | 15" | 30 | 251.91 | 251.72 | 0.61% |
| 106 | RCP | 18" | 168 | 251.52 | 250.46 | 0.63% |
| 107 | RCP | 18" | 24 | 250.98 | 250.46 | 2.17% |
| 108 | RCP | 18" | 44 | 250.26 | 247.77 | 5.64% |
| 109 | RCP | 18" | 25 | 247.57 | 246.94 | 2.57% |
| 110 | RCP | 18" | 102 | 246.74 | 243.22 | 3.43% |
| 111 | RCP | 15" | 141 | 244.82 | 244.05 | 0.54% |
| 112 | RCP | 18" | 23 | 243.85 | 243.22 | 2.77% |
| 113 | RCP | 24" | 96 | 243.02 | 239.67 | 3.48% |
| 114 | RCP | 15" | 23 | 240.06 | 239.67 | 1.72% |
| 115 | RCP | 24" | 75 | 239.47 | 237.63 | 2.46% |
| 116 | RCP | 15" | 35 | 241.10 | 240.93 | 0.50% |
| 117 | RCP | 15" | 119 | 240.73 | 237.63 | 2.60% |
| 118 | RCP | 24" | 125 | 237.43 | 226.47 | 8.79% |
| 119 | RCP | 15" | 34 | 235.19 | 235.01 | 0.50% |
| 120 | RCP | 15" | 135 | 234.81 | 234.14 | 0.50% |

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 121 | RCP | 15" | 36 | 234.95 | 234.14 | 2.27% |
| 122 | RCP | 15" | 161 | 233.94 | 233.13 | 0.50% |
| 123 | RCP | 15" | 34 | 234.40 | 233.13 | 3.77% |
| 124 | RCP | 18" | 183 | 232.93 | 232.01 | 0.50% |
| 125 | RCP | 15" | 35 | 235.97 | 233.68 | 6.61% |
| 126 | RCP | 18" | 75 | 231.81 | 231.44 | 0.50% |
| 127 | RCP | 18" | 57 | 231.24 | 230.96 | 0.50% |
| 128 | RCP | 18" | 92 | 230.76 | 230.30 | 0.50% |
| 129 | RCP | 24" | 131 | 230.10 | 229.44 | 0.50% |
| 130 | RCP | 24" | 156 | 229.24 | 228.46 | 0.50% |
| 131 | RCP | 24" | 116 | 228.26 | 226.47 | 1.54% |
| 132 | RCP | 18" | 76 | 228.25 | 226.47 | 2.34% |
| 133 | RCP | 30" | 67 | 226.27 | 223.00 | 4.89% |
| 134 | RCP | 15" | 39 | 221.22 | 221.00 | 0.57% |
| 135 | RCP | 15" | 150 | 243.56 | 239.00 | 3.05% |
| 136 | RCP | 15" | 137 | 238.80 | 236.97 | 1.34% |
| 137 | RCP | 15" | 110 | 236.77 | 236.22 | 0.50% |
| 138 | RCP | 15" | 24 | 258.04 | 257.92 | 0.50% |
| 139 | RCP | 18" | 131 | 257.72 | 252.00 | 4.37% |
| 140 | RCP | 15" | 24 | 252.49 | 252.00 | 2.06% |

| PIPE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| PIPE NO | TYPE | SIZE | LF | INV. IN | INV. OUT | GRADE |
| 141 | RCP | 18" | 145 | 251.80 | 247.62 | 2.88% |
| 142 | RCP | 24" | 34 | 247.42 | 246.88 | 1.58% |
| 143 | RCP | 24" | 35 | 246.68 | 246.00 | 1.92% |
| 144 | RCP | 30" | 51 | 245.80 | 243.23 | 5.06% |
| 145 | RCP | 15" | 24 | 244.64 | 243.23 | 5.92% |
| 146 | RCP | 30" | 139 | 243.03 | 239.60 | 2.47% |
| 147 | RCP | 15" | 24 | 240.37 | 239.60 | 3.20% |
| 148 | RCP | 30" | 78 | 239.40 | 236.22 | 4.06% |
| 149 | RCP | 30" | 25 | 236.02 | 234.68 | 5.28% |
| 150 | RCP | 30" | 40 | 234.48 | 234.00 | 1.20% |
| 151 | RCP | 15" | 97 | 233.00 | 232.52 | 0.50% |
| 152 | RCP | 36" | 82 | 230.33 | 229.03 | 1.59% |

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**STORM DRAINAGE TABLE**

DRAWING SHEET
**C-7.5**

**23 OF 112**

## OFFSITE SPOIL NOTE:

1. IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A SEPARATE LAND-DISTURBANCE PERMIT.

## STAGE 1 SPECIFIC SEQUENCE:

1. INSTALL CONSTRUCTION ENTRANCE, SILT FENCING, SILT FENCE OUTLETS, DIVERSION DITCHES, AND SKIMMER BASINS AS SHOWN ON APPROVED STAGE 1 EROSION CONTROL PLAN. CLEAR AND GRADE ONLY AREAS NECESSARY TO INSTALL THESE EROSION AND SEDIMENT CONTROL DEVICES. INSTALL SILT FENCE OUTLETS AT LOW POINTS IN THE SILT FENCING AS NEEDED TO PREVENT BLOWOUTS.
2. STABILIZE ALL DISTURBED AREAS DOWNSTREAM OF SEDIMENT BASINS AND OTHER CRITICAL EROSION CONTROL AREAS IMMEDIATELY UPON INSTALLATION. ONCE APPROVED, BEGIN CLEARING AND GRADING REMAINDER OF THE SITE. MAINTAIN EROSION CONTROL DEVICES AS NEEDED. INSTALL DIVERSION DITCHES AS SHOWN ON THE STAGE 1 EROSION CONTROL PLANS. MAINTAIN DIVERSION DITCHES AS SITE IS BROUGHT TO FINAL GRADE IN ORDER TO DIVERT AS MUCH RUNOFF INTO SEDIMENT BASINS AS POSSIBLE.
3. STABILIZE GRADED AREAS AS THEY ARE CLEARED. TEMPORARILY SEED AND MULCH DENUDED AREAS PER THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE SEC. 12.10.4(B). ONCE FINAL GRADE HAS BEEN ACHIEVED, PAVE OR PERMANENTLY SEED ALL AREAS AND SLOPES PER NCDENR'S EROSION SEDIMENT CONTROL PLANNING AND DESIGN MANUAL VERSION 6/06, SECTION 6.10 AND 6.11.
4. MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAIN EVENT THROUGHOUT CONSTRUCTION.

## STAGE 2 SPECIFIC SEQUENCE:

1. AFTER CONTRACTOR HAS COMPLETED ROUGH GRADING OPERATIONS:

   A. CONTRACTOR SHALL STABILIZE HOUSE LOTS EXCLUDING THE 60' WIDE LOTS WHICH MUST REMAIN UNDISTURBED WITH TEMPORARY SEEDING; REFER TO SEEDING DETAILS.

   B. CONTRACTOR SHALL PERMANENTLY STABILIZE ALL SLOPES AND/OR OTHER AREAS THAT ARE AT FINAL GRADE.

   C. COMPLETE OUTSTANDING RETAINING WALL CONSTRUCTION AND STABILIZE UPSLOPE.
2. INSTALL UTILITIES, INCLUDING STORM NETWORK. CONTRACTOR SHALL ONLY EXCAVATE THE AMOUNT OF TRENCH TO ALLOW FOR ONE DAY OF PIPE INSTALLATION.
3. CONTRACTOR SHALL USE BERMS, DIVERSIONS, AND PIPE INLET PROTECTION TO PREVENT SEDIMENT RUNOFF FROM ENTERING THE STORM SYSTEM.
4. INSTALL INLET PROTECTION ON ALL COMPLETED STORM STRUCTURES
5. UPON APPROVAL OF PERMANENT STABILIZATION, REMOVE BALANCE OF EROSION CONTROL MEASURES, GRADE AND STABILIZE REMAINDER OF SITE.
6. WITH APPROVAL OF EROSION CONTROL INSPECTOR, REMOVE THE REMAINER OF THE EROSION CONTROL DEVICES.

## EROSION CONTROL NARRATIVE:

1. THE PURPOSE OF THIS PLAN IS TO DEVELOP A 283 LOT RESIDENTIAL SUBDIVISION. LAND DISTURBANCE WILL BE KEPT TO THE MINIMUM AMOUNT NEEDED TO INSTALL THE INFRUSTRAUTRE, STORMWATER DEVICES AND ROUGH GRADED LOTS SHOWN ON THE PLANS.
2. EROSION SHALL BE CONTROLLED BY USING A COMBINATION OF TEMPORARY AND PERMANENT STABILIZATION MEASURES THROUGHOUT THE SITE. IN GENERAL STRIPPING OF VEGETATION, REGRADING OR OTHER DEVELOPMENT IS TO BE DONE IN SUCH A WAY THAT WILL MINIMIZE EROSION. EROSION AND SEDIMENT WILL BE CONTROLLED BY SILT FENCE, DIVERSION DITCHES, DAMS, SEDIMENT/SKIMMER BASINS, INLET AND OUTLET PROTECTION, SLOPE DRAINS AND EROSION CONTROLMATTING. CONSTRUCTION ENTRANCES WILL PROVIDE ACCESS TO THE SITE. THE AMOUNT OF DISTURBED AREA AND THE DURATION OF EXPOSURE WILL BE KEPT TO A PRACTICAL MINIMUM AND PERMANENT VEGETATION AND SCM'S WILL BE INSTALLED AS SOON AS POSSIBLE TO PREVENT EROSION.

## REQUIRED TOWN OF KNIGHTDALE SCM BASIN REMOVAL SEQUENCE:

1. SCHEDULE A SITE MEETING WITH THE TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE 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: TOWN OF KNIGHTDALE, TOK 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 USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID BERMUDA).
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL EROSION CONTROL INSPECTOR 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 EROSION CONTROL INSPECTOR AND STORMWATER TECHNICIAN TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE.

A. **TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____DATE: _____
LAND USE ADMINISTRATOR

## EROSION CONTROL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF KNIGHTDALE STANDARDS, SPECIFICATIONS AND DETAILS.
2. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE TOWN OF KNIGHTDALE SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
3. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER QUALITY (DWQ) STANDARDS AND SPECIFICATIONS. WHERE DIFFERENT FROM WAKE COUNTY STANDARDS, THE MORE STRINGENT METHOD SHALL BE APPLIED.
4. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE FINANCIALLY RESPONSIBLE PARTY TO FINES AND PENALTIES ISSUED BY EITHER THE WAKE COUNTY EROSION CONTROL DEPARTMENT OR THE DWQ.
5. CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (GREATER THAN 2H:1V) WITHIN 7 DAYS, 10 DAYS FOR MODERATE SLOPES (3H:1V OR GREATER) AND WITHIN 14 CALENDAR DAYS EVERYWHERE ELSE (STATE LAW 2009-486).
6. FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
7. NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
8. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
9. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY NCDEQ ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCES)
10. CONTRACTOR SHALL INSPECT ALL SEDIMENT /EROSION CONTROL DEVICES AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
11. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
12. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
13. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
14. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
15. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
16. A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
17. PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
18. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS AND PONDING.
19. TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.
20. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
21. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
22. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.
23. SLOPES GREATER THAN 3:1 AND/OR GREATER THAN 10' IN VERTICAL DIFFERENCE SHALL BE INSTALLED WITH ROLLED EROSION CONTROL PRODUCT IMMEDIATELY UPON INSTALLATION.

## TOK SCM PLANTING NOTES:

1. THE DAM STRUCTURE, INCLUDING FRONT AND BACK EMBANKMENT SLOPES, OF THE POND SHALL BE VEGETATED WITH NON-CLUMPING TURF GRASS OR SOD. (CENTIPEDE/HYBRID-BERMUDA) 90% GERMINATION OF NON-CLUMPING TURF WILL BE REQUIRED PRIOR TO FINAL CERTIFICATION FORM THE TOWN.
2. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 PLANTS PER 200 FEET OF SHELF AREA.
3. CONTRACTOR TO WORK WITH SOILS SCIENTIST TO ENSURE SOILS ARE ADEQUATE TO SUPPORT PROPER ESTABLISHMENT AND GROWTH OF THE AQUATIC PLANTINGS. CONTRACTOR TO AMEND SOILS AND INSTALL SOILS IN PLANT, SHRUB, AND TREE AREAS PER DETAILS, SOIL SPECIFICATIONS. NCDENR SPECIFICATION, AND SOIL SCIENTIST RECOMMENDATIONS.
4. ALL AQUATIC PLANTINGS ARE TO BE INSTALLED DURING THE APPROPRIATE TIME OF YEAR TO ENSURE SURVIVABILITY. (LAST SPRING FROST AND THE FIRST FALL FROST).
5. ALL DISTURBED AREAS AROUND THE OUTSIDE OF THE DEVICE SHALL BE SEEDED WITH A LAWN AREA SEED MIX (PER SEEDING SPECIFICATIONS) NATIVE GRASSES, LEGUMES, CLOVERS, AND WILDFLOWERS.
6. IF THE DEVICE WAS USED DURING CONSTRUCTION AS A SEDIMENT BASIN OR TRAP, THE BASIN MUST BE CLEANED OUT, GRADED, APPROPRIATE AREAS COVERED WITH 4" OF TOPSOIL AS SPECIFIED IN NOTE #2 ABOVE, AND VEGETATED WITHIN 14 DAYS OF THE COMPLETION OF CONSTRUCTION.
7. CONTRACTOR SHALL WATER ALL VEGETATION AND GRASS ON A WEEKLY BASIS AS NEEDED TO ENSURE GRASS AND PLANT SURVIVAL UNTIL AFTER THE SCM IS CERTIFIED AND ACCEPTED BY THE TOWN.

## GENERAL SEQUENCE:

ENFORCEMENT NOTE 1. FAILURE TO FOLLOW THIS CONSTRUCTION SEQUENCE MAY RESULT IN LOCAL ENFORCEMENT ACTIONS, INCLUDING BUT NOT LIMITED TO CIVIL PENALTIES TO $5000 PER VIOLATION PER DAY, INJUNCTIVE RELIEF, CRIMINAL PENALTIES, AND PERMIT REVOCATION. ADDITIONALLY, OFF-SITE SEDIMENTATION MAY RESULT IN RESTORATION REQUIREMENTS.

ENFORCEMENT NOTE 2. IF THE WAKE COUNTY S&E STAFF DETERMINES THAT EXCESSIVE SEDIMENT IS LEAVING THE SITE, A REVISED SEDIMENTATION AND EROSION CONTROL PLAN MAY BE REQUIRED, WITH ASSOCIATED REQUIREMENTS FOR ADDITIONAL S&E MEASURES.

CONSTRUCTION SEQUENCE

1. SCHEDULE AND HOLD A PRE-CONSTRUCTION CONFERENCE PRIOR TO BEGINNING ANY LAND-DISTURBING ACTIVITIES. THIS CONFERENCE SHOULD BE ATTENDED BY A REPRESENTATIVE OF THE FINANCIALLY RESPONSIBLE PARTY AND/OR THE GENERAL CONTRACTOR, GRADING SUB-CONTRACTOR, EROSION CONTROL SUB-CONTRACTOR AND THE WAKE COUNTY S&E OFFICE.
2. OBTAIN LAND DISTURBING PERMIT AND PLACARD, AND POST THE PLACARD ON SITE.
3. OBTAIN AN APPROVED (STAMPED) S&E CONTROL PLAN AND KEEP IT ON SITE, EITHER IN THE INSPECTION BOX, CONSTRUCTION OFFICE OR WITH THE CONTRACTOR.
4. INSTALL CONSTRUCTION EGRESS/EXITS, SILT FENCING, SEDIMENT TRAPS/BASINS, DIVERSION DITCHES, TEMPORARY PIPES, CLEAR WATER DIVERSIONS, CHECK DAMS, AND OTHER INITIAL EROSION CONTROL MEASURES AS SPECIFIED IN THE PLAN (PHASE 1). REMOVE ONLY TREES AND GROUND COVER NECESSARY TO INSTALL THESE DEVICES.
5. IF A STOCKPILE IS NECESSARY DUE TO EXCAVATION OF THE SEDIMENT TRAP/BASIN, PLACE A DOUBLE ROW OF SILT FENCE 10 FEET APART. TREES AND GROUNDCOVER MAY BE REMOVED ONLY AS NECESSARY FOR THIS STOCKPILE. IF MATERIAL IS GOING TO BE HAULED OFF-SITE, A SEPARATE EROSION CONTROL PERMIT MUST BE OBTAINED FOR THE DESTINATION OF THE MATERIAL.
6. PROVIDE TEMPORARY GROUNDCOVER FOR DIVERSION DITCHES AND SEDIMENT TRAPS/BASINS WITHIN 3 DAYS OF COMPLETION.
7. NOTIFY THE WAKE COUNTY S&E SITE INSPECTOR AFTER MEASURES HAVE BEEN INSTALLED AND PROJECT HAS STARTED.
8. BEGIN CLEARING, GRUBBING AND GRADING OF SITE IN ACCORDANCE WITH THE APPROVED S&E CONTROL PLAN.
9. FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
10. REMOVE ALL EROSION CONTROL MEASURES AFTER THE WAKE COUNTY S&E OFFICE APPROVAL OF PERMANENT STABILIZATION.

LIMITS OF DISTURBANCE: 2,227,963 SF (51.15 AC)

## PERMITTING AND ENVIRONMENTAL REGULATIONS NOTES:

1. ESC PERMITTING AND INSPECTIONS:
   A. ONCE THE EROSION AND SEDIMENT CONTROL (ESC) PLAN HAS BEEN REVIEWED AND ACCEPTED BY THE TOWN OF KNIGHTDALE (TOK), A FORMAL PLAN APPROVAL LETTER WILL BE ISSUED TO THE FRP AND APPLICANTS. NOTE: AN ESC APPROVAL LETTER DOES NOT INDICATE PERMIT ISSUANCE.
   B. AN NCG01 CERTIFICATE OF COVERAGE MUST BE OBTAINED FROM THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ). THE MAINTENANCE PERMIT CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT DEQ.NC.GOV/NCG01. PLEASE NOTE, THE E-NOI FORM MAY ONLY BE COMPLETED ONCE ESC PLANS HAVE BEEN APPROVED (A).
   C. THE TOWN OF KNIGHTDALE STORMWATER DEPARTMENT REQUIRES AN ON-SITE PRECONSTRUCTION (PRECON) MEETING PRIOR TO ISSUING A DEVELOPMENT PERMIT. THIS MEETING IS AN OPPORTUNITY TO GO OVER SITE MANAGEMENT EXPECTATIONS AND DISCUSS ANY PROJECT CONCERNS.
   D. ONCE THE PRECON MEETING HAS BEEN HELD AND ALL FEES PAID, THE LAND DEVELOPMENT PERMIT (LDP) WILL BE ISSUED FOR THE PROJECT.
   E. FOLLOWING SITE MOBILIZATION, ROUTINE "CONSTRUCTION SITE INSPECTIONS" BY TOK STAFF WILL OCCUR AS OUTLINED IN THE TOK EROSION AND SEDIMENT CONTROL ENFORCEMENT TREE. TO NOTE, "COMPLIANT/SATISFACTORY" INSPECTIONS WILL NEED TO OCCUR FOLLOWING:
      i. INSTALLATION OF INITIAL ESC PERIMETER CONTROLS (SF, SF/TP, SFOS) ONLY CLEARING THE PERIMETER RIBBON (25' MAX) - "PERIMETER CONTROL INSPECTION".
      ii. INSTALLATION OF ALL PHASE 1 ESC MEASURES INCLUDING ENGINEERED STRUCTURES - "CERTIFICATE OF COMPLANCE INSPECTION".
      IT IS THE RESPONSIBILITY OF THE SITE MANAGER TO FORMALLY REQUEST THESE TYPES OF INSPECTIONS BY CONTACTING TOK PUBLIC WORKS. CLEARING/GRUBBING OUTSIDE OF THE LIMITED AREAS REQUIRED TO COMPLETE THE ABOVE ITEMS WILL RESULT IN ENFORCEMENT ACTION BY THE TOK.
   F. FOLLOWING THE COMPLETION OF THE ITEMS ABOVE - THE SITE CAN BE CLEARED AND DEVELOPED IN ACCORDANCE WITH THE APPROVED PLAN.
2. PERMITS BOX CONTENTS - A COPY OF THE TOK LAND DEVELOPMENT PERMIT, THE NCG01 CERTIFICATE OF COVERAGE (COC) AND REGULAR NPDES INSPECTIONS, A COPY OF THE APPROVED/REVISED ESC PLAN, AND (WHEN OBTAINED) THE TOK CERTIFICATE OF COMPLIANCE - MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION. LOCATE A RAIN GAUGE ON SITE FOR FACILITATION OF INSPECTIONS AND RECORD KEEPING.
3. 401/404 PERMITS - APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL PLAN DOES NOT AUTHORIZE IMPACTS TO WETLANDS, COASTAL MARSH, STREAMS, OR OTHER WATERS OF THE STATE OR UNITED STATES OR SUPERSEDE ANY OTHER PERMITTING REQUIREMENT OF ANY FEDERAL, STATE OR LOCAL AGENCY.
   A. IF APPLICABLE, PROVIDE A COPY OF THE USACE 404 PERMIT AND DWR 401 CERTIFICATIONS. PROVIDE A COPY OF THE DWR BUFFER AUTHORIZATION.
      i. SUBMIT DOCUMENTATION WITH MAPS SHOWING LOCATION AND EXTENT OF IMPACTS TO STREAMS AND WETLANDS WITH ANY SPECIAL CONDITIONS PERTAINING TO EROSION AND SEDIMENT CONTROL AND RESTORATION OF AFFECTED AREAS.
      ii. IDENTIFY THE STREAMS, WETLANDS, AND BUFFERS ON THE PLAN SHEETS. INCLUDE ANY ADDITIONAL MEASURES, CONSTRUCTION SPECIFICATIONS, MAINTENANCE REQUIREMENTS AND CONSTRUCTION SEQUENCING AS REQUIRED BY THE 404/401/BUFFER DETERMINATION AND BUFFER AUTHORIZATION ON THE PLAN SHEETS.
      iii. FOLLOW ALL CONDITIONS OUTLINED IN THE CERTIFICATIONS, SPECIFICALLY REPORTING ANY DISCHARGES OUTSIDE OF THE PERMITTED SCOPE OF WORK.
4. AREAS OF ENVIRONMENTAL CONCERN AND CULTURAL RESOURCES – BEFORE ANY SITE WORK OCCURS, ADEQUATELY IDENTIFY KEY ENVIRONMENTAL AND/OR CULTURAL RESOURCES BY USING APPROPRIATE IDENTIFIERS IN THE FIELD (TREE PROTECTION FENCING, FLAGGING, ETC.).
5. FILL/BORROW - ANY OFF-SITE BORROW AND/OR FILL REQUIRED FOR THIS PROJECT MUST COME FROM A SITE WITH AN APPROVED EROSION CONTROL PLAN, A SITE REGULATED UNDER THE MINING ACT OF 1971, OR A LANDFILL REGULATED BY THE NC DIVISION OF SOLID WASTE MANAGEMENT. TRASH/DEBRIS FROM DEMOLITION ACTIVITIES OR GENERATED BY ANY ACTIVITIES ON SITE MUST BE DISPOSED OF AT A FACILITY REGULATED BY THE NC DIVISION OF SOLID WASTE MANAGEMENT, OR PER NC DIVISION OF SOLID WASTE MANAGEMENT OR NC DIVISION OF WATER RESOURCES RULES AND REGULATIONS.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
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STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE AS SHOWN | DESIGNED BY JWL | DRAWN BY SRG | CHECKED BY JWL

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**EROSION NOTES**

DRAWING SHEET
**C-8.0**

**LEGEND:**

- EXISTING ADJOINER PROPERTY LINE
- EXISTING EDGE OF PAVEMENT
- EX. MAJOR CONTOURS
- EX. MINOR CONTOURS
- SF/LD — SILT FENCE\ LIMITS OF DISTURBANCE
- LD — LD — LIMITS OF DISTURBANCE
- TEMPORARY DITCH
- BAFFLES
- CONSTRUCTION ENTRANCE
- TEMPORARY SLOPE DRAIN
- SILT FENCE OUTLET
- TEMPORARY SKIMMER
- CHECK DAM
- DISSIPATOR PAD
- WTLD — WTLD — EXISTING WETLAND

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

GRAPHIC SCALE

200 0 100 200 400 800

( IN FEET )
1 inch = 200 ft.




| No. | REVISIONS | DATE | BY |
|---|---|---|---|

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SEAL

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| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

# ESROSION CONTROL PLAN - OVERALL STAGE 1

DRAWING SHEET
C-8.1

25 OF 112

PROGRESS PLOT DATE: 1/16/2024

DELTA RIVER WAY

WIDEWATERS PARKWAY

PROPERTY BOUNDARY (TYP.)

STREAM SCE

±10' ASPHALT PATH

20' STREAM BUFFER ZONE 2

CONSTRUCTION ENTRANCE (TYP.)

CREEK CROSSES PROPERTY LINE

STREAM SA

CREEK CROSSES PROPERTY LINE

WETLAND WA-3

STREAM SCG

FES (TYP.)

OCS (TYP.)

SKIMMER DEVICE (TYP.)

SILT BAG (TYP.) TO THE EMPTIED AND REPLACED WHEN HALF FULL

OUTLET HOSE (TYP.)

PUMP (TYP.)

INTAKE HOSE (TYP.)

DISSIPATOR PAD (TYP.)

SB #2

STREAM SCH

STREAM SHA

SLOPE DRAIN #2

DIVERSION DITCH #2

SILT FENCE OUTLET (TYP.)

SILT FENCE/LIMITS OF DISTURBANCE (TYP.)

COIR BAFFLES (TYP.)

TEMPORARY CHECK DAM (TYP.)

TOP OF BANKS

SB #1

SLOPE DRAIN #1

DIVERSION DITCH #7

DIVERSION DITCH #1

WETLAND WG-1

WETLAND WH-1

STREAM SBA

STREAM SBB

NORFOLK SOUTHERN RAILROAD

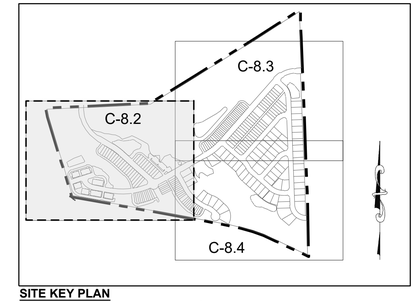
100' RIGHT-OF-WAY

EX. CONCRETE MONUMENT

100' ELECTRIC EASMT

MATCH LINE

FOR CONTINUATION, SEE C-8.4




SITE KEY PLAN

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

**LEGEND:**
SEE SHEET C-8.1 FOR LEGEND

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

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| | | | |
|---|---|---|---|
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| | SCALE | AS SHOWN | JWL |
| | DESIGNED BY | JWL | |
| | DRAWN BY | SRG | |
| | CHECKED BY | JWL | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**EROSION CONTROL PLAN - STAGE 1**

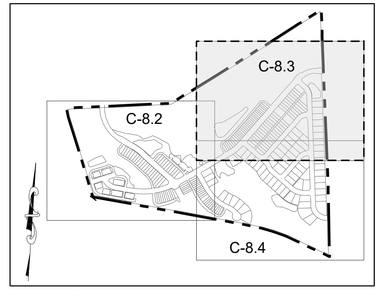
DRAWING SHEET

**C-8.2**

**26 OF 112**

PROGRESS PLOT DATE: 1/16/2024

STREAM SCA
STREAM SCB
MINGO CREEK GREENWAY
FLOODWAY LINE
WETLAND WA-1
STREAM SAA
LIMITS OF DISTURBANCE (TYP.)
TOP OF BANKS
CONSTRUCTION ENTRANCE (TYP.)
SOUTHAMOTON DRIVE
WETLAND WB
SILT BAG (TYP.) TO THE EMPTIED AND REPLACED WHEN HALF FULL
OUTLET HOSE (TYP.)
PUMP (TYP.)
INTAKE HOSE (TYP.)
STREAM SB
SB #5
SILT FENCE/LIMITS OF DISTURBANCE (TYP.)
DISSIPATOR PAD (TYP.)
SLOPE DRAIN #5
DIVERSION DITCH #5
SILT FENCE OUTLET (TYP.)
TEMPORARY CHECK DAM (TYP.)
FES (TYP.)
OCS (TYP.)
SKIMMER DEVICE (TYP.)
COIR BAFFLES (TYP.)
SLOPE DRAIN #4
DIVERSION DITCH #6
SB #4
DIVERSION DITCH #4
PROPERTY BOUNDARY (TYP.)
ST JOHNS ST
30' PUBLIC R/W
TORTOLA PL
MATCH LINE
FOR CONTINUATION, SEE C-8.2
MATCH LINE
FOR CONTINUATION, SEE C-8.4




**SITE KEY PLAN**

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

**LEGEND:**
SEE SHEET C-8.1 FOR LEGEND

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


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| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**EROSION CONTROL PLAN - STAGE 1**

DRAWING SHEET
**C-8.3**

**27 OF 112**

PROGRESS PLOT DATE: 1/16/2024

FOR CONTINUATION, SEE C-8.3

MATCH LINE

FOR CONTINUATION, SEE C-8.2

MATCH LINE

EXISTING POND

WETLAND WH-1

WETLAND WH-2

STREAM SCH

DIVERSION DITCH #4

SILT FENCE/LIMITS OF DISTURBANCE (TYP.)

SILT FENCE OUTLET (TYP.)

TEMPORARY CHECK DAM (TYP.)

DIVERSION DITCH #3

DISSIPATOR PAD (TYP.)

SLOPE DRAIN #3

COIR BAFFLES (TYP.)

SB #3

SKIMMER DEVICE (TYP.)

OCS (TYP.)

FES (TYP.)

INTAKE HOSE (TYP.)

PUMP (TYP.)

OUTLET HOSE (TYP.)

SILT BAG (TYP.) TO THE EMPTIED AND REPLACED WHEN HALF FULL

50' EXISTING BUFFER OF POND

PROPERTY BOUNDARY (TYP.)

CARIBBEAN CT

BALLASTED DR
60' PUBLIC R/W

NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY

CREEK CROSSES PROPERTY LINE

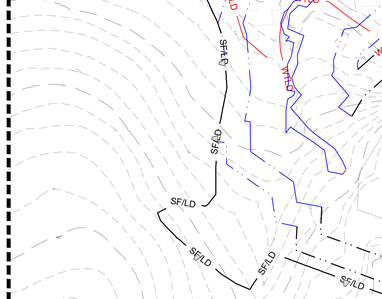
SF/LD

WTLD

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.




SITE KEY PLAN

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

**LEGEND:**
SEE SHEET C-8.1 FOR LEGEND

| No. | REVISIONS | DATE | BY |
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SEAL
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|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**EROSION CONTROL PLAN - STAGE 1**

DRAWING SHEET
**C-8.4**

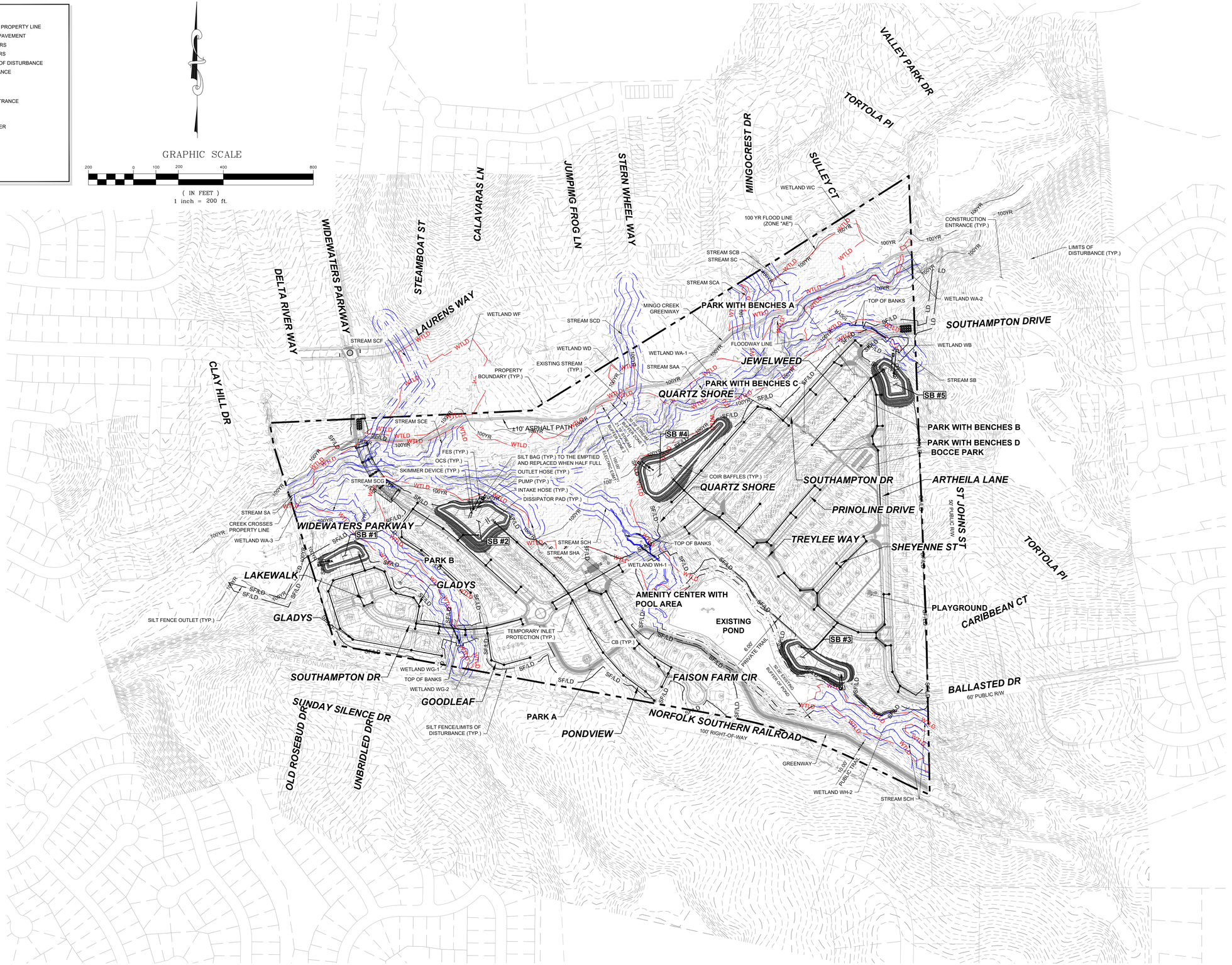
**28 OF 112**

**LEGEND:**

- EXISTING ADJOINER PROPERTY LINE
- EXISTING EDGE OF PAVEMENT
- EX. MAJOR CONTOURS
- EX. MINOR CONTOURS
- SF/LD — SILT FENCE\ LIMITS OF DISTURBANCE
- LD — LD — LIMITS OF DISTURBANCE
- TEMPORARY DITCH
- BAFFLES
- CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- TEMPORARY SKIMMER
- CHECK DAM
- DISSIPATOR PAD
- WTLD — WTLD — EXISTING WETLAND

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

GRAPHIC SCALE
200 0 100 200 400 800
( IN FEET )
1 inch = 200 ft.




| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | | | |
| | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

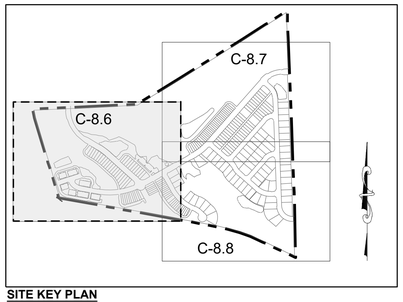
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**ESROSION CONTROL PLAN - OVERALL STAGE 2**

DRAWING SHEET
**C-8.5**

**29 OF 112**

PROGRESS PLOT DATE: 1/16/2024




SITE KEY PLAN

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

**LEGEND:**
SEE SHEET C-8.5 FOR LEGEND

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

WIDEWATERS PARTWAY
EX.20' SANITARY SEWER (BM 2001, PG 2072)
EX.30' SANITARY SEWER AND GREENWAY EASEMENT (BM 1993, PG 1409)
STREAM SCE
PROPERTY BOUNDARY (TYP.)
CONSTRUCTION ENTRANCE (TYP.)
±10' ASPHALT PATH
100' ELECTRIC EASMT
CREEK CROSSES PROPERTY LINE
COIR BAFFLES (TYP.)
FES (TYP.)
OCS (TYP.)
SKIMMER DEVICE (TYP.)
DISSIPATOR PAD (TYP.)
SB #2
STREAM SA
STREAM SCG
WETLAND WA-3
CB (TYP.)
SILT FENCE OUTLET (TYP.)
SILT FENCE/LIMITS OF DISTURBANCE (TYP.)
TEMPORARY INLET PROTECTION (TYP.)
GOODLEAF
20' PRIVATE R/W
WIDEWATERS PARKWAY
64' PUBLIC R/W
PONDVIEW
20' PRIVATE R/W
STREAM SHA
STREAM SCH
TOP OF BANKS
SOUTHAMPTON DR
64' PUBLIC R/W
AMENITY CENTER WITH POOL AREA
SB #1
INTAKE HOSE (TYP.)
PUMP (TYP.)
OUTLET HOSE (TYP.)
SILT BAG (TYP.) TO THE EMPTIED AND REPLACED WHEN HALF FULL
LAKEWALK
54' PUBLIC R/W
PARK B
WETLAND WG-1
SOUTHAMPTON DR
54' PUBLIC R/W
FAISON FARM CIR
54' PUBLIC R/W
GLADYS
20' PRIVATE R/W
EX. CONCRETE MONUMENT
NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY
TOP OF BANKS
WETLAND WG-2
GOODLEAF
20' PRIVATE R/W
PARK A

**MATCH LINE**
FOR CONTINUATION, SEE C-8.7

**MATCH LINE**
FOR CONTINUATION, SEE C-8.8

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


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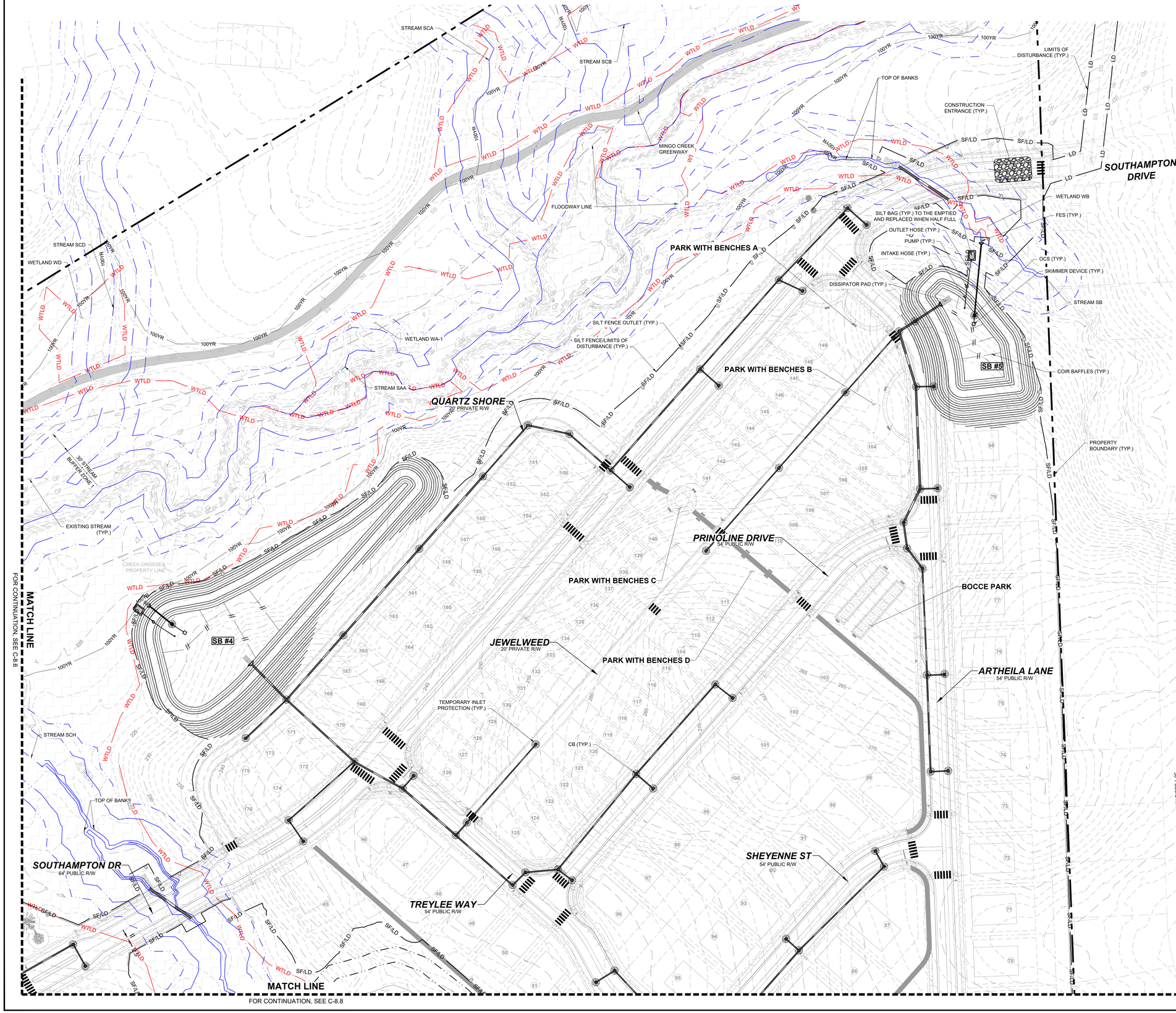

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

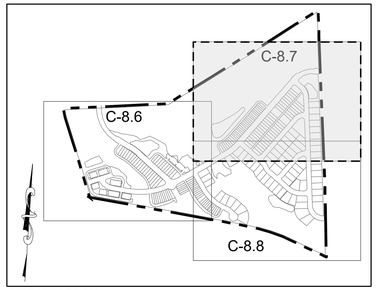
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**EROSION CONTROL PLAN - STAGE 2**

DRAWING SHEET
**C-8.6**

**30 OF 112**

PROGRESS PLOT DATE: 1/16/2024




SITE KEY PLAN

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

**LEGEND:**
SEE SHEET C-8.5 FOR LEGEND

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

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| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | | |
|---|---|---|---|
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**EROSION CONTROL PLAN - STAGE 2**

DRAWING SHEET
**C-8.7**

**31 OF 112**

PROGRESS PLOT DATE: 1/16/2024

FOR CONTINUATION, SEE C-8.7

MATCH LINE

FOR CONTINUATION, SEE C-8.6

MATCH LINE

PRINOLINE DRIVE
54' PUBLIC R/W

SHEYENNE ST
54' PUBLIC R/W

TREYLEE WAY
54' PUBLIC R/W

SOUTHAMPTON DR
64' PUBLIC R/W

ARTHEILA LANE
64' PUBLIC R/W

FAISON FARM CIR
54' PUBLIC R/W

PONDVIEW
20' PRIVATE R/W

BALLASTED DR
60' PUBLIC R/W

CARIBBEAN CT

PLAYGROUND

EXISTING POND

PARK A

WETLAND WH-1

WETLAND WH-2

STREAM SCH

SB #3

DISSIPATOR PAD (TYP.)

COIR BAFFLES (TYP.)

SILT FENCE OUTLET (TYP.)

SILT FENCE/LIMITS OF DISTURBANCE (TYP.)

50' EXISTING BUFFER OF POND

SILT BAG (TYP.) TO THE EMPTIED AND REPLACED WHEN HALF FULL

INTAKE HOSE (TYP.)

PUMP (TYP.)

OUTLET HOSE (TYP.)

SKIMMER DEVICE (TYP.)

OCS (TYP.)

FES (TYP.)

TEMPORARY INLET PROTECTION (TYP.)

CB (TYP.)

24.00'TO BE SUPPLEMENTED FOR ADDITIONAL OPACITY

6.00' PRIVATE TRAIL

10.00' PUBLIC TRAIL

GREENWAY

PROPERTY LINE

NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY

CREEK CROSSES PROPERTY LINE

SF/LD

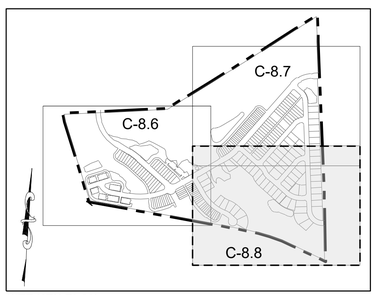
WTLD

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

SITE KEY PLAN




**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

**LEGEND:**
SEE SHEET C-8.5 FOR LEGEND

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

| No. | REVISIONS | DATE | BY |
|---|---|---|---|


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| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | DESIGNED BY | JWL |
| | SCALE AS SHOWN | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**EROSION CONTROL PLAN - STAGE 2**

DRAWING SHEET
**C-8.8**

**32 OF 112**

PROGRESS PLOT DATE: 1/16/2024

**LEGEND:**

- EXISTING ADJOINER PROPERTY LINE
- EXISTING EDGE OF PAVEMENT
- EX. MAJOR CONTOURS
- EX. MINOR CONTOURS
- SF/LD — SILT FENCE\ LIMITS OF DISTURBANCE
- LD — LD — LIMITS OF DISTURBANCE
- TEMPORARY DITCH
- BAFFLES
- CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- TEMPORARY SKIMMER
- CHECK DAM
- DISSIPATOR PAD
- WTLD — WTLD — EXISTING WETLAND

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

GRAPHIC SCALE
200 0 100 200 400 800
( IN FEET )
1 inch = 200 ft.




| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


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| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | | | |
| | NOT FOR CONSTRUCTION | | |
| | SCALE | AS SHOWN | JWL |
| | DESIGNED BY | | JWL |
| | DRAWN BY | | SRG |
| | CHECKED BY | | JWL |

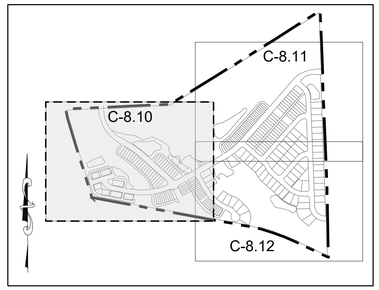
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**ESROSION CONTROL PLAN - OVERALL STAGE 3**

DRAWING SHEET
**C-8.9**

**33 OF 112**

PROGRESS PLOT DATE: 1/16/2024




**SITE KEY PLAN**

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

**LEGEND:**
SEE SHEET C-8.9 FOR LEGEND

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

WIDEWATERS PARKWAY
EX.30' SANITARY SEWER AND GREENWAY EASEMENT (BM 1993, PG 1409)
EX.20' SANITARY SEWER (BM 2001, PG 2022)
CONSTRUCTION ENTRANCE (TYP.)
STREAM SCE
PROPERTY BOUNDARY (TYP.)
±10' ASPHALT PATH
ELECTRIC EASMT
CREEK CROSSES PROPERTY LINE
WIDEWATERS PARKWAY
50' PUBLIC R/W
TEMPORARY INLET PROTECTION (TYP.)
FES (TYP.)
OCS (TYP.)
SKIMMER DEVICE (TYP.)
EMERGENCY SPILLWAY: 221.5
DISSIPATOR PAD (TYP.)
STREAM SA
CREEK CROSSES PROPERTY LINE
WETLAND WA-3
STREAM SCG
SILT FENCE OUTLET (TYP.)
SILT FENCE/LIMITS OF DISTURBANCE (TYP.)
CB (TYP.)
SCM #2
PONDVIEW
20' PRIVATE R/W
STREAM SHA
STREAM SCH
TOP OF BANKS
AMENITY CENTER WITH POOL AREA
GOODLEAF
20' PRIVATE R/W
EMERGENCY SPILLWAY: 220.5
SCM #1
INTAKE HOSE (TYP.)
PUMP (TYP.)
OUTLET HOSE (TYP.)
SILT BAG (TYP.) TO THE EMPTIED AND REPLACED WHEN HALF FULL
PARK B
WETLAND WG-1
FAISON FARM CIR
54' PUBLIC R/W
LAKEWALK
54' PUBLIC R/W
SOUTHAMPTON DR
54' PUBLIC R/W
GLADYS
20' PRIVATE R/W
EX. CONCRETE MONUMENT
TOP OF BANKS
WETLAND WG-2
PARK A
MATCH LINE
FOR CONTINUATION, SEE C-8.11
MATCH LINE
FOR CONTINUATION, SEE C-8.12

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

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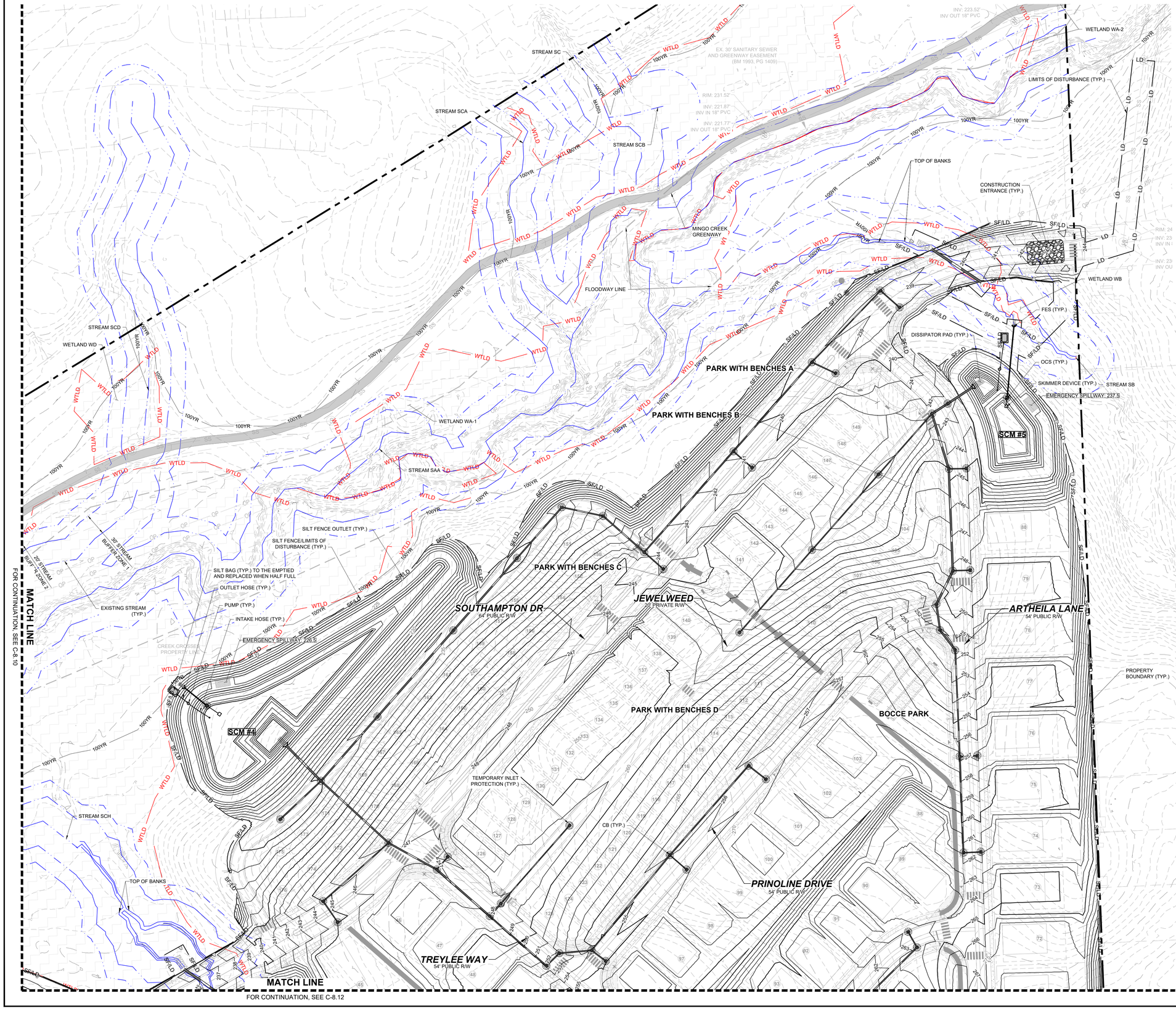
| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

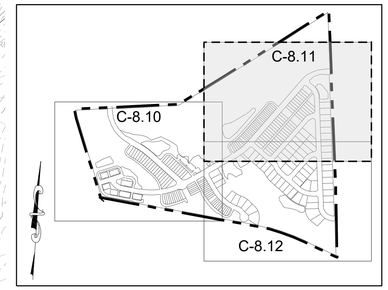
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**EROSION CONTROL PLAN - STAGE 3**

DRAWING SHEET
**C-8.10**

**34 OF 112**

PROGRESS PLOT DATE: 1/16/2024




**SITE KEY PLAN**

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

**LEGEND:**
SEE SHEET C-8.9 FOR LEGEND

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

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| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | DESIGNED BY | JWL |
| | SCALE AS SHOWN | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**EROSION CONTROL PLAN - STAGE 3**

DRAWING SHEET
**C-8.11**

**35 OF 112**

PROGRESS PLOT DATE: 1/16/2024

FOR CONTINUATION, SEE C-8.11

MATCH LINE

MATCH LINE
FOR CONTINUATION, SEE C-8.10

SOUTHAMPTON DR
64' PUBLIC R/W

FAISON FARM CIR
54' PUBLIC R/W

FAISON FARM CIR
54' PUBLIC R/W

PARK A

PONDVIEW
20' PRIVATE R/W

TOP OF BANKS

WETLAND WH-1

SILT FENCE/LIMITS OF DISTURBANCE (TYP.)

SILT FENCE OUTLET (TYP.)

EXISTING POND

6.00' PRIVATE TRAIL

DISSIPATOR PAD (TYP.)

SCM #3

EMERGENCY SPILLWAY: 250.50

INTAKE HOSE (TYP.)

PUMP (TYP.)

OUTLET HOSE (TYP.)

SILT BAG (TYP.) TO THE EMPTIED AND REPLACED WHEN HALF FULL

50' EXISTING BUFFER OF POND

GREENWAY

TREYLEE WAY
54' PUBLIC R/W

SHEYENNE ST
54' PUBLIC R/W

ARTHEILA LANE
54' PUBLIC R/W

CB (TYP.)

TEMPORARY INLET PROTECTION (TYP.)

SKIMMER DEVICE (TYP.)

OCS (TYP.)

FES (TYP.)

PLAYGROUND

PROPERTY BOUNDARY (TYP.)

CARIBBEAN CT

BALLASTED DR
60' PUBLIC R/W

WETLAND WH-2

STREAM SCH

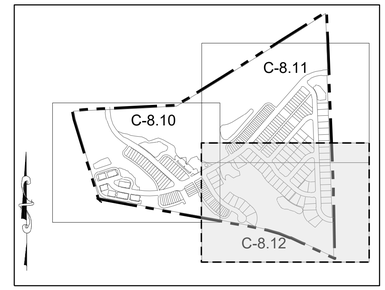
10.00' PUBLIC TRAIL

CREEKVIEW PROPERTIES

WTLD

SF/LD

SE/LD




## SITE KEY PLAN

**NOTE:**
EROSION CONTROL NOTES : SEE SHEET C-8.0

**LEGEND:**
SEE SHEET C-8.9 FOR LEGEND

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

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| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | | |
| | SCALE | AS SHOWN | JWL |
| | DESIGNED BY | JWL | |
| | DRAWN BY | SRG | |
| | CHECKED BY | JWL | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**EROSION CONTROL PLAN - STAGE 3**

DRAWING SHEET
**C-8.12**

**36 OF 112**

## NOTES:

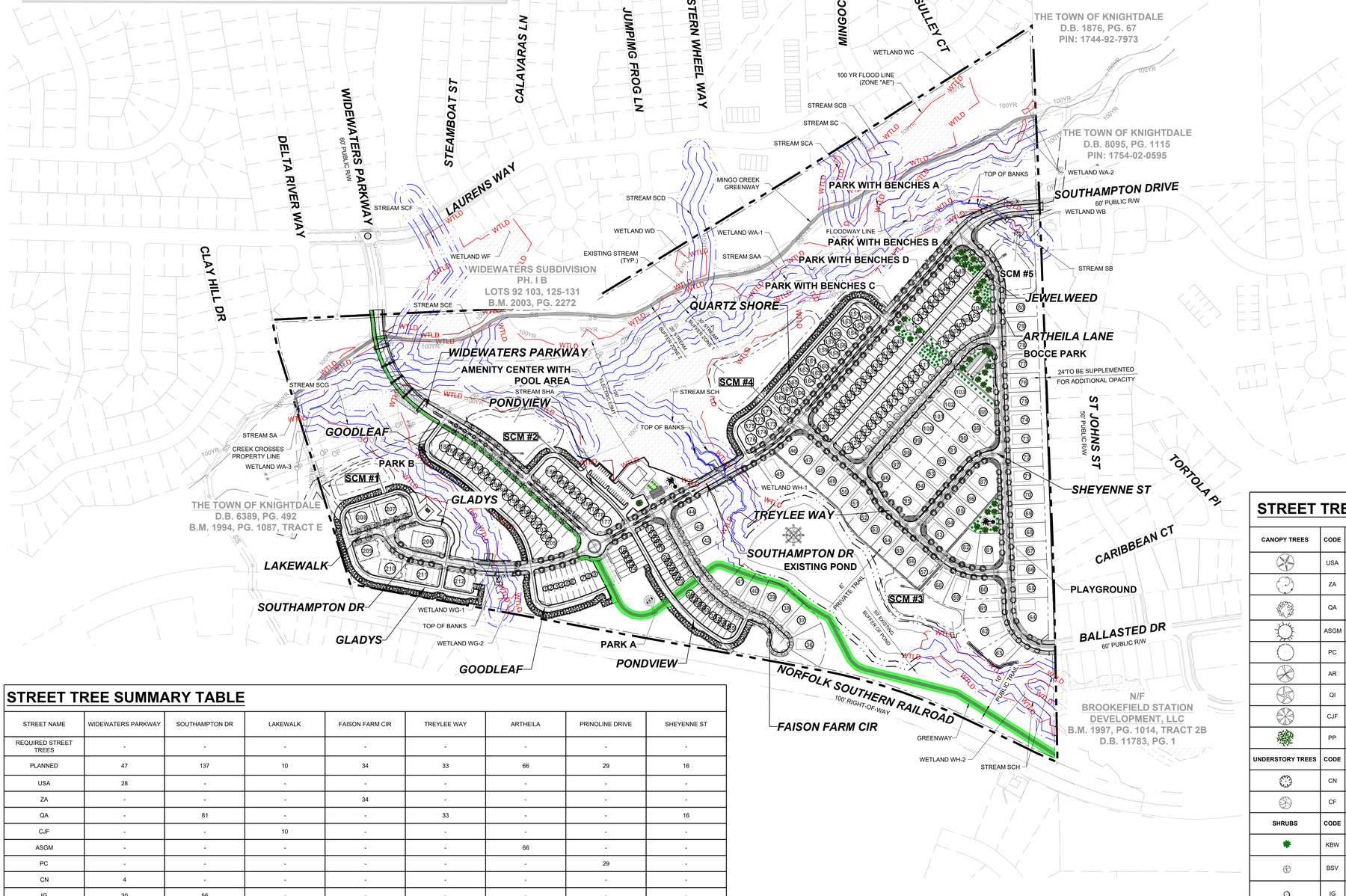
1. STREET TREES SHALL BE LOCATED WITHIN THE RIGHT OF WAY.
2. STREET TREES SHALL BE PLANTED BY EACH BUILDER PRIOR TO RECEIVING C.O. FOR HOUSE.
3. ALL LANDSCAPING SHOULD BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TOWN OF KNIGHTDALE'S UDO.
4. ALL PLANT MATERIALS TO COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK ANSI.Z60.
5. CONTRACTOR ENGAGED IN LANDSCAPE IMPLEMENTATION SHALL BE A LANDSCAPE CONTRACTOR REGISTERED IN THE STATE OF NORTH CAROLINA.
6. SUBSTITUTIONS OF PLANT MATERIALS SPECIFIED CAN ONLY OCCUR WITH PRIOR APPROVAL BY LANDSCAPE ARCHITECT.
7. ALL NEW TREES TO HAVE A 5' DIAMETER SHREDDED HARDWOOD MULCH RING AT 4" DEEP UNLESS OTHERWISE NOTED OR LOCATED IN A PLANT BED PER SITE PLAN.
8. LANDSCAPE CONTRACTOR TO GUARANTEE PLANT MATERIALS FOR A ONE YEAR PERIOD FOLLOWING SUBSTANTIAL COMPLETION.
9. AREAS DAMAGED BY LANDSCAPE CONTRACTOR TO BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE OWNER.
10. ALL LANDSCAPE ISLANDS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED.
11. ALL ABOVE GROUND UTILITIES MUST BE SCREENED.

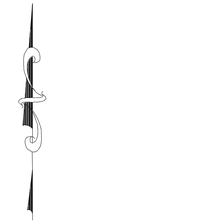
**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

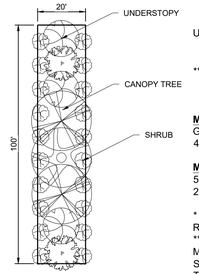
BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR




TYPE B BUFFER YARD
NTS

MINIMUM PLANTING REQUIREMENTS
*CANOPY TREES
- (3) TREES / 100LF
- MIN. HEIGHT: 8', MIN. SIZE: 2' CAL

UNDERSTORY
- (5) UNDERSTORY / 100LF
- MIN.HEIGHT: 6', MIN.SIZE: 1 ¼" CAL

**SHRUBS
- (20) SHRUBS / 100LF
- MIN.HEIGHT: 18", MIN.SIZE: 3 CAL

**MINIMUM HEIGHT & OPACITY:**
GROUND TO 4' (SEMI-OPAQUE SCREEN)
4' - 30' (INTERMITTENT VISUAL OBSTRUCTION)

**MAXIMUM HORIZONTAL OPENINGS:**
5' (SEMI-OPAQUE SCREEN)
20' (INTERMITTENT VISUAL OBSTRUCTION)

* CANOPY TREES MAY COUNT TOWARD REPLACEMENT TREE REQUIREMENTS
** FENCES OR WALLS WITH EARTHEN BERMS MAY BE SUBSTITUTED FOR HALF OF THE SHRUBS REQUIREMENT IN ALL BUFFER YARD TYPES

### THE LENGTH OF THE PERIMETER BUFFERS

| THE PERIMETER BUFFERS | LOCATION | SQUARE FEET/ LINEAR FEET |
|---|---|---|
| TYPE B BUFFER PONDVIEW | PONDVIEW | 733 LF |
| TYPE B BUFFER GOODLEAF | GOODLEAF | 1,074 LF |
| TYPE B BUFFER GLADYS | GLADYS | 1,076 LF |
| TYPE B BUFFER QUARTZ SHORE | QUARTZ SHORE | 892 LF |

### STREET TREE SUMMARY TABLE

| STREET NAME | WIDEWATERS PARKWAY | SOUTHAMPTON DR | LAKEWALK | FAISON FARM CIR | TREYLEE WAY | ARTHEILA | PRINOLINE DRIVE | SHEYENNE ST |
|---|---|---|---|---|---|---|---|---|
| REQUIRED STREET TREES | - | - | - | - | - | - | - | - |
| PLANNED | 47 | 137 | 10 | 34 | 33 | 66 | 29 | 16 |
| USA | 28 | - | - | - | - | - | - | - |
| ZA | - | - | - | 34 | - | - | - | - |
| QA | - | 81 | - | - | 33 | - | - | 16 |
| CJF | - | - | 10 | - | - | - | - | - |
| ASGM | - | - | - | - | - | 66 | - | - |
| PC | - | - | - | - | - | - | 29 | - |
| CN | 4 | - | - | - | - | - | - | - |
| IG | 30 | 56 | - | - | - | - | - | - |

### STREET TREE TABLE:

| CANOPY TREES | CODE | QTY | BOTANICAL NAME | COMMON NAME | CAL | CONT | SIZE | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | USA | 28 | ULMUS PARVIFOLIA 'ATHENA' | ATHENA LACEBARK ELM | 2.5" CAL | B&B | 12'-14' HT | - |
| | ZA | 34 | ZELKOVA SERRATA 'AUTUMN GLOW' | AUTUMN GLOW ZELKOVA | 2.5" CAL | B&B | 12'-14' HT | - |
| | QA | 130 | QUERCUS ACCUTISSIMA | SAWTOOTH OAK | 2.5" CAL | B&B | 12'-14' HT | - |
| | ASGM | 66 | ACER SACCHARUM "GREEN MOUNTAIN" | GREEN MOUNTAIN MAPLE | 2.5" CAL | B&B | 12'-14' HT | - |
| | PC | 29 | PISTACIA CHINENSIS | CHINESE PISTACHE TREE | 2.5" CAL | B&B | 12'-14' HT | - |
| | AR | 64 | ACER RUBRUM | RED MAPLE "AUTUM FLAME" | 2.5" CAL | B&B | 12'-14' HT | - |
| | QI | 32 | QUERCUS IMBRICARIA | SHINGLE OAK | 2.5" CAL | B&B | 12'-14' HT | - |
| | CJF | 10 | CRYTOMERIA JAPONICA 'BEN FRANKLIN' | FRANKLIN CRYPTOMENIA | 2.5" CAL | B&B | 12'-14' HT | - |
| | PP | 32 | PINUS PALUSTRIS | LONGLEAF PINE | 2.5" CAL | B&B | 12'-14' HT | - |
| **UNDERSTORY TREES** | **CODE** | **QTY** | **BOTANICAL NAME** | **COMMON NAME** | **CAL** | **CONT** | **SIZE** | **REMARKS** |
| | CN | 70 | CERCIS CANADENSIS | REDBUD | 1.25" CAL | B&B | 10'-12' HT | - |
| | CF | 96 | CORNUS FLORIDA | DOGWOOD | 1.25" CAL | B&B | 10'-12' HT | - |
| **SHRUBS** | **CODE** | **QTY** | **BOTANICAL NAME** | **COMMON NAME** | **SIZE** | **HEIGHT** | **SPACING** | **REMARKS** |
| | KBW | 111 | KOREAN BOXWOOD WINTERGREEN | WINTERGREEN BOXWOOD | CONT. | 18" MIN | 48" O.C | - |
| | BSV | 746 | BUXUS SINICA VAR. INSULARIS 'WINTERGREEN' | WINTERGREEN BOXWOOD | CONT. | 18" MIN | 48" O.C | - |
| | IG | 86 | ILEX GLABRA | 'CHEROKEE' CRAPE MYRLE | CONT. | 18"MIN | 48" O.C | - |
| | DGA | 6 | GARDENIA JASMINODIES | DWARF GARDENIA | CONT. | 18"MIN | 48" O.C | - |

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036225 JOSHUA W. LAMBERT

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

STRONG ROCK ENGINEERING GROUP

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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**OVERALL LANDSCAPE PLAN**

DRAWING SHEET
**C-9.0**

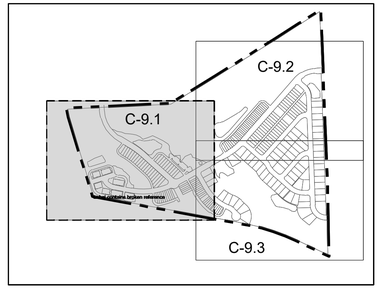
PROGRESS PLOT DATE: 1/16/2024

**A. TOWN CERTIFICATION** . THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR




## SITE KEY PLAN

## LEGEND:

SEE SHEET C-9.0 FOR LEGEND

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

WIDEWATERS PARKWAY
STREAM SCE
STREAM SA
CREEK CROSSES PROPERTY LINE
WETLAND WA-3
STREAM SCG
EXISTING GREENWAY TRAIL (TYP.)
PROPOSED GREENWAY TRAIL (TYP.)
ELECTRIC EASMT
STREAM SCH
STREAM SHA
TOP OF BANKS
SCM #2
SCM #1
AMENITY CENTER WITH POOL AREA
PARK B
GOODLEAF
PONDVIEW
SOUTHAMPTON DR
FAISON FARM CIR
WETLAND WG-1
LAKEWALK
GLADYS
TOP OF BANKS
WETLAND WG-2
NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY
PARK A
MATCH LINE
FOR CONTINUATION, SEE C-9.3

THE TOWN OF KNIGHTDALE
D.B. 6389, PG. 492
B.M. 1994, PG. 1087, TRACT E

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

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| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL LANDSCAPE PLAN I**

DRAWING / SHEET
**C-9.1**

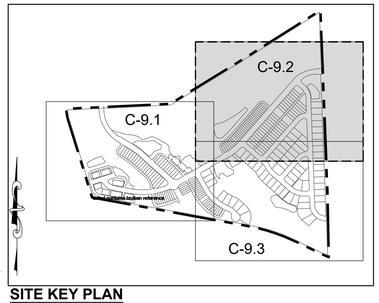
PROGRESS PLOT DATE: 1/16/2024

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-9.0 FOR LEGEND.

OPEN SPACE
WIDEWATERS
SUBDIVISION, PH. II
B.M. 2005, PG. 2011

STREAM SCA
STREAM SCB
MINGO CREEK GREENWAY
FLOODWAY LINE
STREAM SCD
WETLAND WD
WETLAND WA-1
STREAM SAA
STREAM SCH
30' STREAM BUFFER ZONE 1
EXISTING STREAM (TYP.)
TOP OF BANKS

SOUTHAMPTON DRIVE
60' PUBLIC R/W
WETLAND WB
LEWIS LANDING SUBDIVISION, PH. I
LOTS 1-12
B.M. 1999, PG. 1347
STREAM SB
SOUTHAMPTON DR
ARTHEILA LANE
PARK WITH BENCHES A
PARK WITH BENCHES B
PARK WITH BENCHES C
PARK WITH BENCHES D
SCM #5
SCM #4
QUARTZ SHORE
JEWELWEED
PRINOLINE DRIVE
BOCCE PARK
SHEYENNE ST
TREYLEE WAY
LEWIS LANDING SUBDIVISION, PHASE 2
B.M. 2001, PG. 1390
OPEN SPACE
24.2'TO BE SUPPLEMENTED FOR ADDITIONAL OPACITY
ST JOHNS ST
55' PUBLIC R/W

MATCH LINE
FOR CONTINUATION, SEE C-9.1

MATCH LINE
FOR CONTINUATION, SEE C-9.3

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

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ENGINEERING GROUP
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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**PARTIAL LANDSCAPE PLAN II**

DRAWING SHEET
**C-9.2**

**39 OF 112**

PROGRESS PLOT DATE: 1/16/2024

FOR CONTINUATION, SEE C-9.2

MATCH LINE

AMENITY CENTER WITH POOL AREA

QUARTZ SHORE

SOUTHAMPTON DR

PRINOLINE DRIVE

SHEYENNE ST

TREYLEE WAY

PLAYGROUND

ARTHEILA LANE

CARIBBEAN CT

BALLASTED DR
60' PUBLIC R/W

EXISTING POND

SCM #3

6.0' PRIVATE TRAIL

WETLAND WH-1

WETLAND WH-2

STREAM SCH

WTLD

50' EXISTING BUFFER OF POND

FAISON FARM CIR

PARK A

PONDVIEW

NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY

GREENWAY

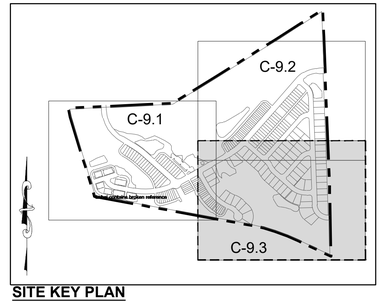
10.0' PUBLIC TRAIL

LEWIS LANDING SUBDIVISION, PHASE 2
B.M. 2001, PG. 1390

N/F
BROOKEFIELD STATION DEVELOPMENT, LLC
B.M. 1997, PG. 1014, TRACT 2B
D.B. 11783, PG. 1

FOR CONTINUATION, SEE C-9.1

MATCH LINE




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-9.0 FOR LEGEND.

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL


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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL LANDSCAPE PLAN III**

DRAWING SHEET
**C-9.3**

**40 OF 112**

PROGRESS PLOT DATE: 1/16/2024

**A. TOWN CERTIFICATION** , THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

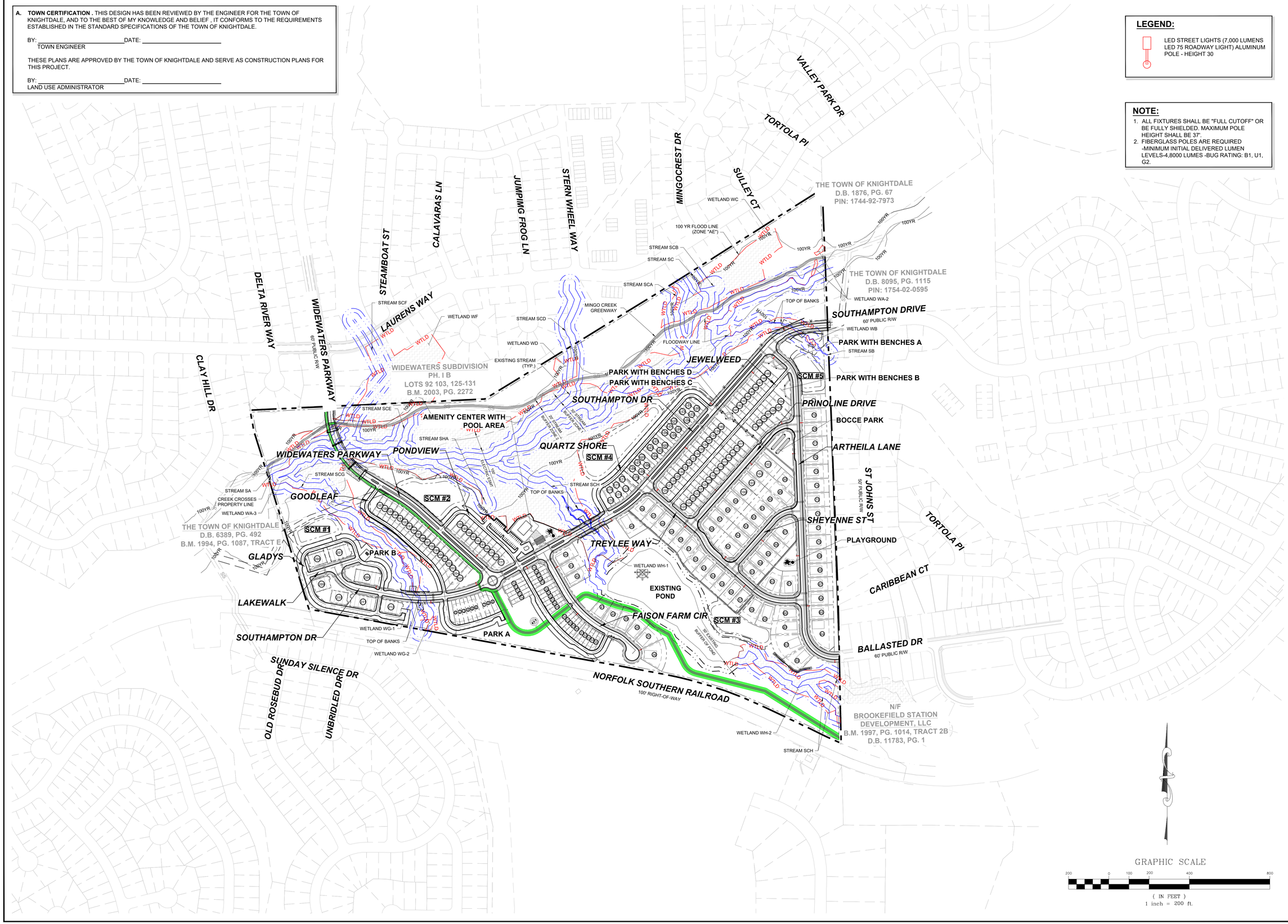
BY: _____ DATE: _____
LAND USE ADMINISTRATOR

**LEGEND:**

LED STREET LIGHTS (7,000 LUMENS LED 75 ROADWAY LIGHT) ALUMINUM POLE - HEIGHT 30

**NOTE:**

1. ALL FIXTURES SHALL BE "FULL CUTOFF" OR BE FULLY SHIELDED. MAXIMUM POLE HEIGHT SHALL BE 37'.
2. FIBERGLASS POLES ARE REQUIRED -MINIMUM INITIAL DELIVERED LUMEN LEVELS-4,8000 LUMES -BUG RATING: B1, U1, G2.




GRAPHIC SCALE

200 0 100 200 400 800

( IN FEET )
1 inch = 200 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

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| | |
|---|---|
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| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**OVERALL LIGHTING PLAN**

DRAWING / SHEET
**C-10.0**

**41 OF 112**

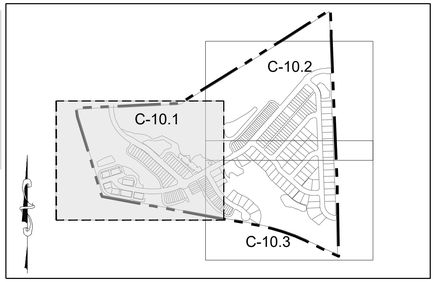
PROGRESS PLOT DATE: 1/16/2024

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-10.0 FOR LEGEND

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

STREET LIGHT
STREAM SCE
STREAM SA
CREEK CROSSES PROPERTY LINE
WETLAND WA-3
STREAM SCG
STREAM SCH
STREAM SHA
TOP OF BANKS
WETLAND WG-1
WETLAND WG-2
WIDEWATERS PARKWAY
PONDVIEW
AMENITY CENTER WITH POOL AREA
SCM #1
SCM #2
GOODLEAF
PARK B
GLADYS
LAKEWALK
SOUTHAMPTON DR
FAISON FARM CIR
PARK A
THE TOWN OF KNIGHTDALE
D.B. 6389, PG. 492
B.M. 1994, PG. 1087, TRACT E
NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY
MATCH LINE
FOR CONTINUATION, SEE C-10.2

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036225 JOSHUA W. LAMBERT

STRONG ROCK ENGINEERING GROUP

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SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609

| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
|---|---|
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

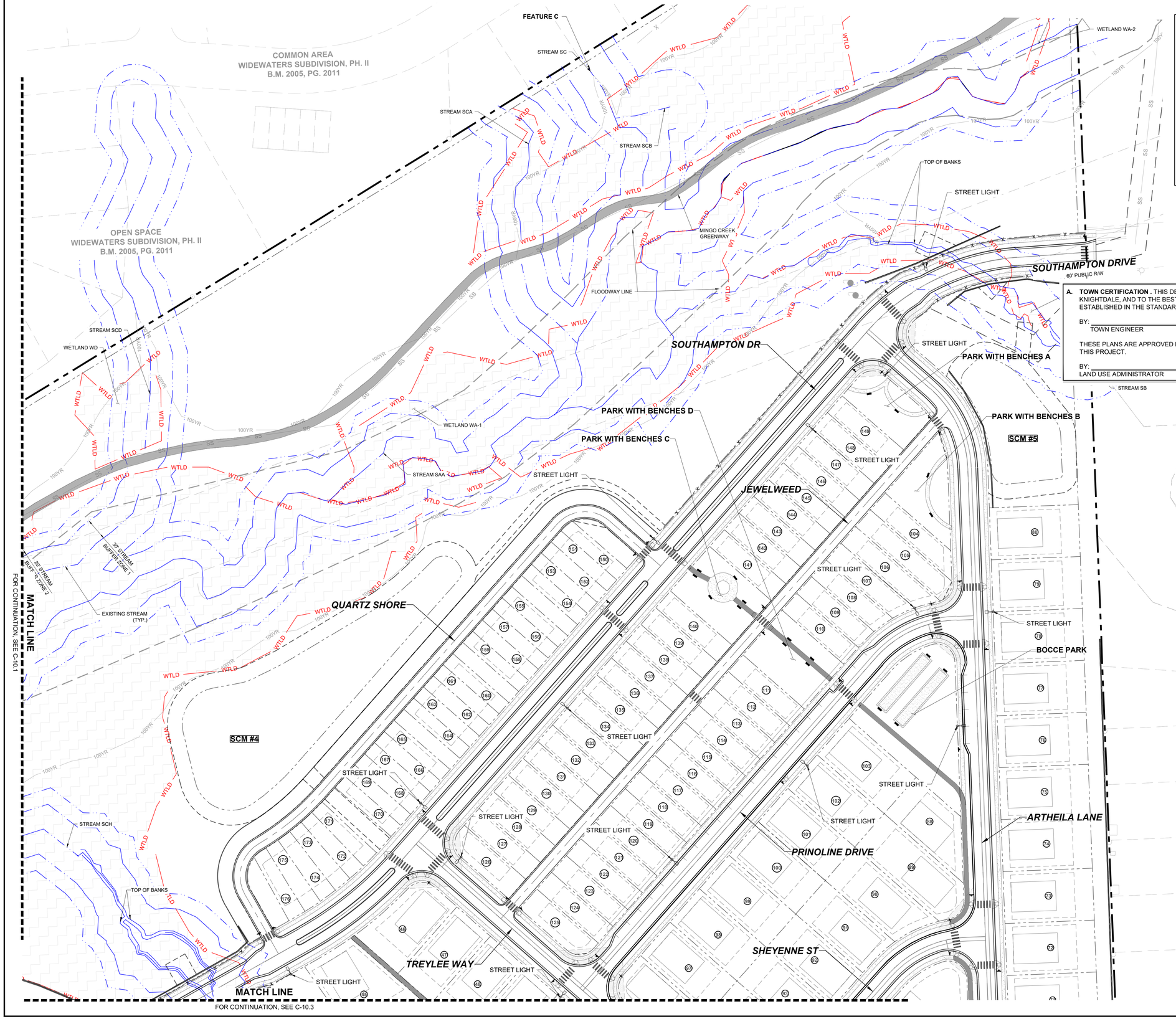
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

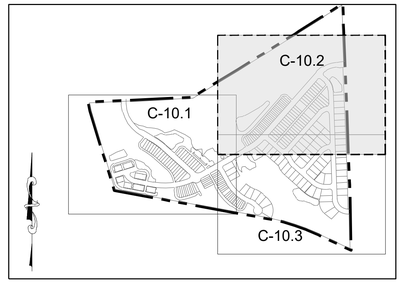
**PARTIAL LIGHTNG PLAN I**

DRAWING / SHEET
**C-10.1**

**42 OF 112**

PROGRESS PLOT DATE: 1/16/2024




## SITE KEY PLAN LEGEND:

SEE SHEET C-10.0 FOR LEGEND

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL


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|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
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| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

# PARTIAL LIGHTNG PLAN II

DRAWING SHEET

**C-10.2**

PROGRESS PLOT DATE: 1/16/2024

FOR CONTINUATION, SEE C-10.2

MATCH LINE

STREET LIGHT

TOP OF BANKS

QUARTZ SHORE

SOUTHAMPTON DR

STREET LIGHT

WTLD

STREET LIGHT

STREET LIGHT

PRINOLINE DRIVE

SHEYENNE ST

STREET LIGHT

STREET LIGHT

STREET LIGHT

PLAYGROUND

WETLAND WH-1

STREET LIGHT

FAISON FARM CIR

TREYLEE WAY

ARTHEILA LANE

EXISTING POND

SCM #3

STREET LIGHT

STREET LIGHT

STREET LIGHT

PONDVIEW

PARK A

STREET LIGHT

50' EXISTING BUFFER OF FOMD

WETLAND WH-2

STREAM SCH

BALLASTED DR

60' PUBLIC R/W

STREET LIGHT

CARIBBEAN CT

N/F
BROOKEFIELD STATION
DEVELOPMENT, LLC
B.M. 1997, PG. 1014, TRACT 2B
D.B. 11783, PG. 1

NORFOLK SOUTHERN RAILDOAD
100' RIGHT-OF-WAY

FOR CONTINUATION, SEE C-10.1

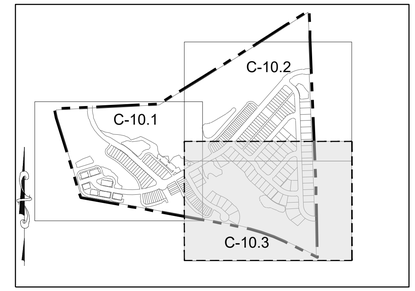
MATCH LINE

A. **TOWN CERTIFICATION** . THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR




**SITE KEY PLAN**

**LEGEND:**

SEE SHEET C-10.0 FOR LEGEND

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036225 JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
|---|---|---|---|
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

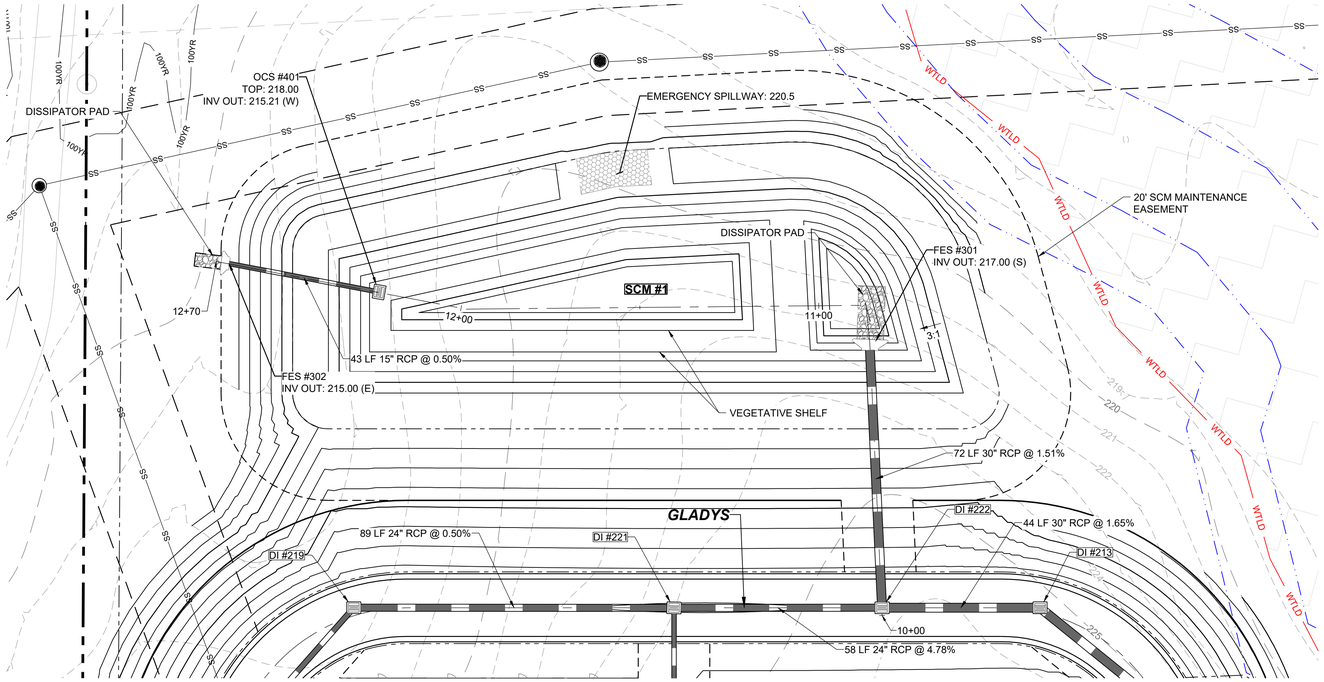
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL LIGHTNG PLAN III**

DRAWING SHEET
**C-10.3**

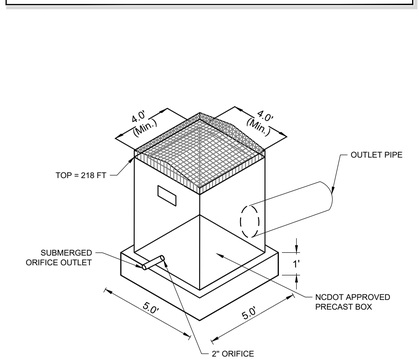
**44 OF 112**

## SCM BASIN REMOVAL SEQUENCE:

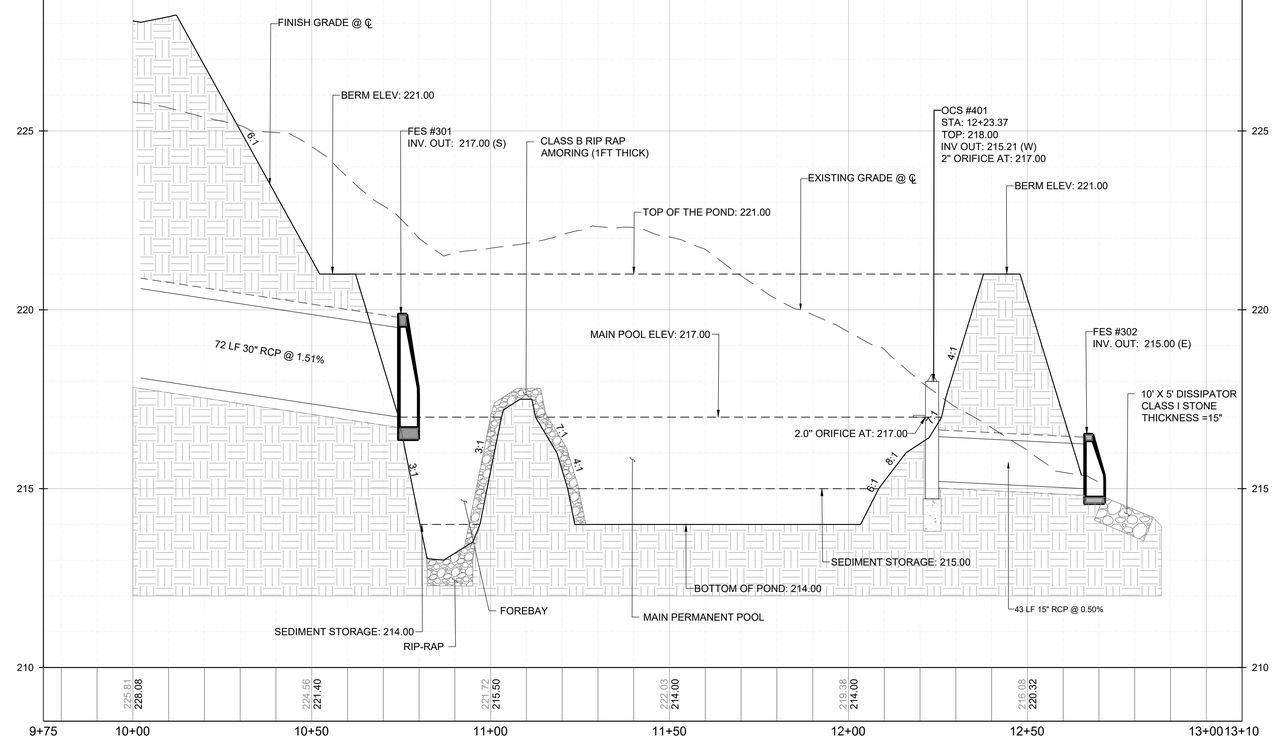
1. SCHEDULE A SITE MEETING WITH THE TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
2. CONTACT NCDEQ – RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE 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: TOWN OF KNIGHTDALE, TOK 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 USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID BERMUDA).
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL EROSION CONTROL INSPECTOR 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 EROSION CONTROL INSPECTOR AND STORMWATER TECHNICIAN TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE.




**SCM #1 - PLAN**
**HORIZONTAL: 1" = 20'**




**OUTLET CONTROL STRUCTURE DETAIL**
N.T.S




**SCM #1 - PROFILE**
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

## TOWN OF KNIGHTDALE SCM PLANTING NOTES:

1. THE DAM STRUCTURE, INCLUDING FRONT AND BACK EMBANKMENT SLOPES, OF THE POND SHALL BE VEGETATED WITH NON-CLUMPING TURF GRASS OR SOD. (CENTIPEDE/HYBRID-BERMUDA) 90% GERMINATION OF NON-CLUMPING TURF WILL BE REQUIRED PRIOR TO FINAL CERTIFICATION FORM THE TOWN.
2. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 PLANTS PER 200 FEET OF SHELF AREA.
3. CONTRACTOR TO WORK WITH SOILS SCIENTIST TO ENSURE SOILS ARE ADEQUATE TO SUPPORT PROPER ESTABLISHMENT AND GROWTH OF THE AQUATIC PLANTINGS. CONTRACTOR TO AMEND SOILS AND INSTALL SOILS IN PLANT, SHRUB, AND TREE AREAS PER DETAILS, SOIL SPECIFICATIONS. NCDENR SPECIFICATION, AND SOIL SCIENTIST RECOMMENDATIONS.
4. ALL AQUATIC PLANTINGS ARE TO BE INSTALLED DURING THE APPROPRIATE TIME OF YEAR TO ENSURE SURVIVABILITY. (LAST SPRING FROST AND THE FIRST FALL FROST).
5. ALL DISTURBED AREAS AROUND THE OUTSIDE OF THE DEVICE SHALL BE SEEDED WITH A LAWN AREA SEED MIX (PER SEEDING SPECIFICATIONS) NATIVE GRASSES, LEGUMES, CLOVERS, AND WILDFLOWERS.
6. IF THE DEVICE WAS USED DURING CONSTRUCTION AS A SEDIMENT BASIN OR TRAP, THE BASIN MUST BE CLEANED OUT, GRADED, APPROPRIATE AREAS COVERED WITH 4" OF TOPSOIL AS SPECIFIED IN NOTE #2 ABOVE, AND VEGETATED WITHIN 14 DAYS OF THE COMPLETION OF CONSTRUCTION.
7. CONTRACTOR SHALL WATER ALL VEGETATION AND GRASS ON A WEEKLY BASIS AS NEEDED TO ENSURE GRASS AND PLANT SURVIVAL UNTIL AFTER THE SCM IS CERTIFIED AND ACCEPTED BY THE TOWN.

GRAPHIC SCALE
20 0 10 20 40 80
( IN FEET )
1 inch = 20 ft.

## REQUIRED SCM INSPECTIONS SEQUENCE - SCM INSTILLATION:

WHEN SCHEDULING INSPECTIONS, PLEASE CALL THE PUBLIC WORKS ADMINISTRATIVE ASSISTANT AT (919) 217-2250.
PLEASE NOTE: THE FOLLOWING PERSONNEL MUST BE PRESENT AT ALL INSPECTIONS:
1. SITE SUPERVISOR.
2. GEOTECH.
3. AS-BUILT CERTIFYING ENGINEER OR SOMEONE UNDER THEIR SUPERVISION.

THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SCM WITH DAM:
1. KEY TRENCH EXCAVATION.
2. PRINCIPAL SPILLWAY PIPE AND ASSOCIATED COMPONENTS:
   a. CONCRETE CRADLE.
   b. ANTI-SEEP COLLAR.
   c. SEEPAGE DIAPHRAGM.
3. OUTLET STRUCTURE.
4. ANTI-FLOTATION BALLAST.
5. ANY SITE-CONSTRUCTED REINFORCED CONCRETE STRUCTURES.

THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SAND FILTERS OR BIORETENTION DEVICES:
   a. SUBGRADE OR CONSTRUCTED FOUNDATION.
   b. OUTLET OR RISER IN COMBINATION WITH CONNECTING UNDERDRAINS.
   c. FILTER MEDIA.
   d. DAM ITEMS ON PREVIOUS LIST IF APPLICABLE.

GEOTECHNICAL TESTING AND CERTIFICAITON.
ALL REPORTS ARE TO BE SUBMITTED WITHIN 30-DAYS OF DAM COMPLETION REQUIRED GEOTECHNICAL RECORDS INCLUDE:
1. DAM EMBANKMENT MATERIAL COMPOSITION AND DENSITY TESTING.
2. MAP THAT LABELS ALL POINTS WHERE THE DAM AND DAM FOUNDATION AREAS WERE TESTED.
3. DIGITAL PHOTOS SHOWING THE DAM FOUNDATION AREAS, THE RISER, THE PRINCLIPLE SPILLWAY PIPE, THE CONCRETE CRADLE, THE SEEPAGE DIAPHRAM, RELIEF DRAINS, ETC., BEING INSTALLED.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | | | |
| | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

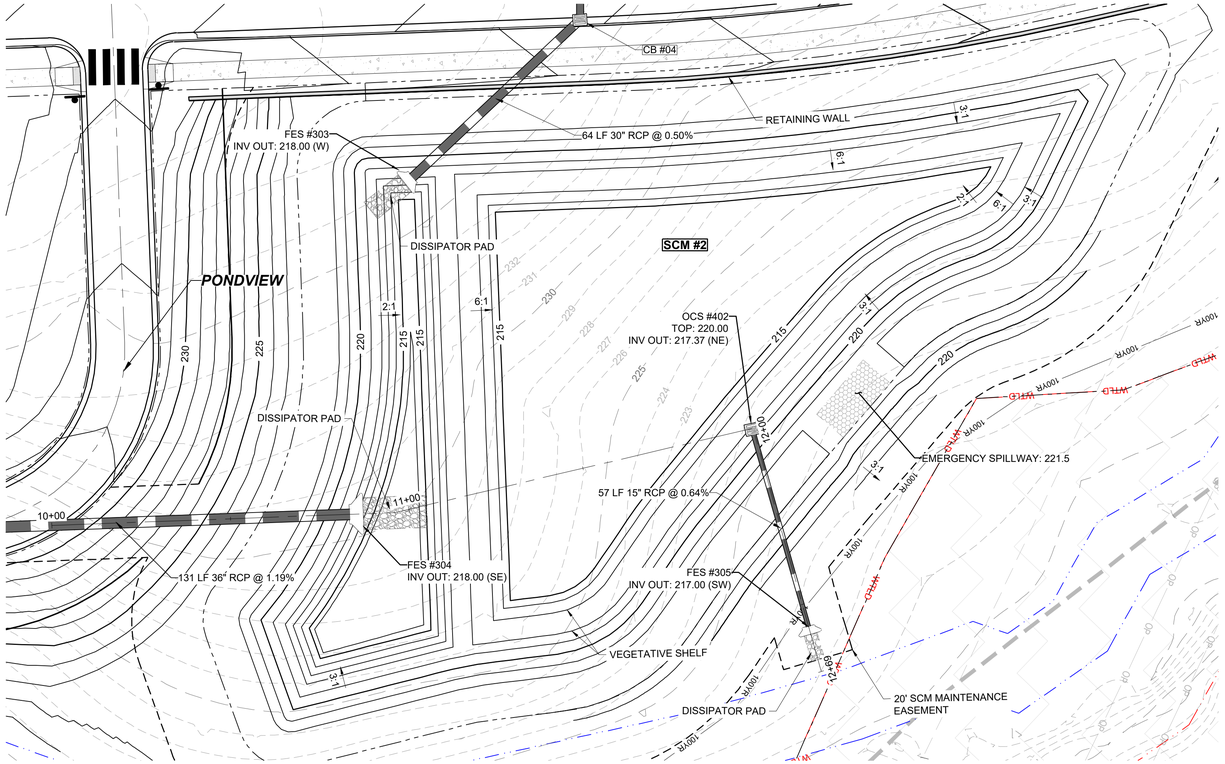
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**STORM CONTROL MEASURES**

DRAWING SHEET
**C-11.0**

**45 OF 112**

## SCM BASIN REMOVAL SEQUENCE:

1. SCHEDULE A SITE MEETING WITH THE TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE 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: TOWN OF KNIGHTDALE, TOK 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.
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4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID BERMUDA).
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL EROSION CONTROL INSPECTOR 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 EROSION CONTROL INSPECTOR AND STORMWATER TECHNICIAN TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE.




**SCM #2 - PLAN**
**HORIZONTAL: 1" = 20'**

## TOWN OF KNIGHTDALE SCM PLANTING NOTES:

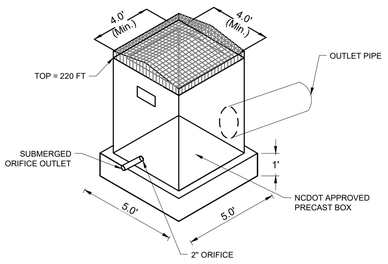
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2. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 PLANTS PER 200 FEET OF SHELF AREA.
3. CONTRACTOR TO WORK WITH SOILS SCIENTIST TO ENSURE SOILS ARE ADEQUATE TO SUPPORT PROPER ESTABLISHMENT AND GROWTH OF THE AQUATIC PLANTINGS. CONTRACTOR TO AMEND SOILS AND INSTALL SOILS IN PLANT, SHRUB, AND TREE AREAS PER DETAILS, SOIL SPECIFICATIONS. NCDENR SPECIFICATION, AND SOIL SCIENTIST RECOMMENDATIONS.
4. ALL AQUATIC PLANTINGS ARE TO BE INSTALLED DURING THE APPROPRIATE TIME OF YEAR TO ENSURE SURVIVABILITY. (LAST SPRING FROST AND THE FIRST FALL FROST).
5. ALL DISTURBED AREAS AROUND THE OUTSIDE OF THE DEVICE SHALL BE SEEDED WITH A LAWN AREA SEED MIX (PER SEEDING SPECIFICATIONS) NATIVE GRASSES, LEGUMES, CLOVERS, AND WILDFLOWERS.
6. IF THE DEVICE WAS USED DURING CONSTRUCTION AS A SEDIMENT BASIN OR TRAP, THE BASIN MUST BE CLEANED OUT, GRADED, APPROPRIATE AREAS COVERED WITH 4" OF TOPSOIL AS SPECIFIED IN NOTE #2 ABOVE, AND VEGETATED WITHIN 14 DAYS OF THE COMPLETION OF CONSTRUCTION.
7. CONTRACTOR SHALL WATER ALL VEGETATION AND GRASS ON A WEEKLY BASIS AS NEEDED TO ENSURE GRASS AND PLANT SURVIVAL UNTIL AFTER THE SCM IS CERTIFIED AND ACCEPTED BY THE TOWN.



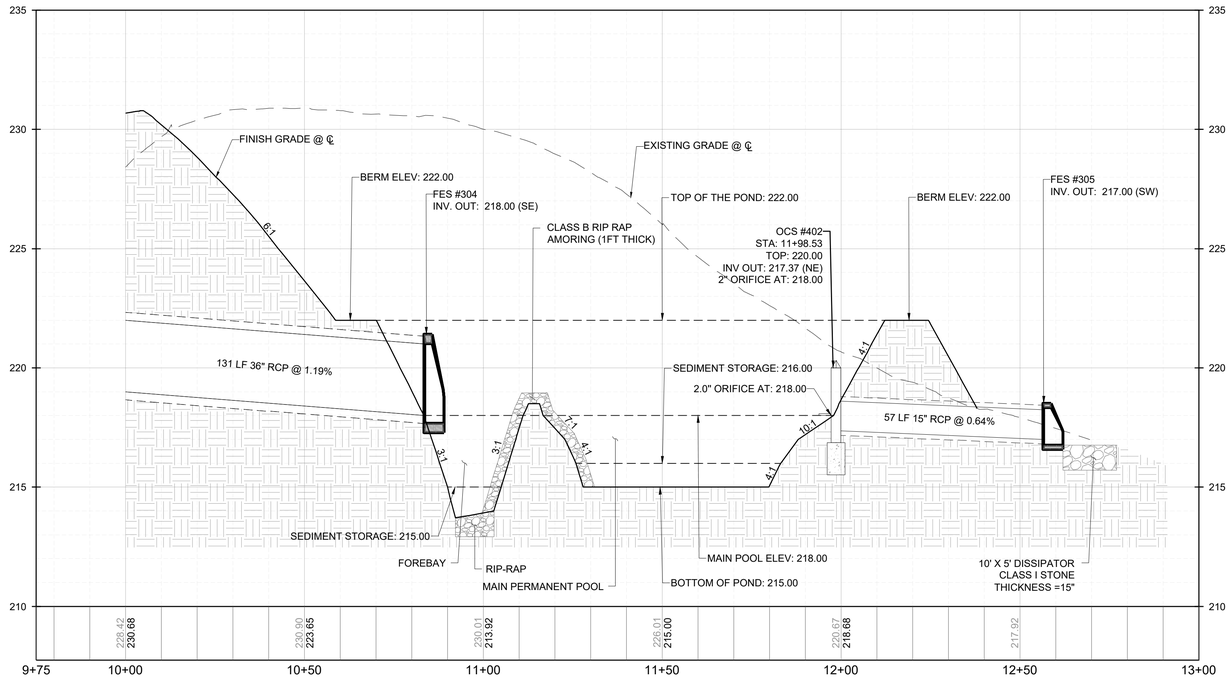
GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20 ft.




**OUTLET CONTROL STRUCTURE DETAIL**
N.T.S




**SCM #2 - PROFILE**
**VERTICAL: 1" = 3'**
**HORIZONTAL: 1" = 20'**

## REQUIRED SCM INSPECTIONS SEQUENCE - SCM INSTILLATION:

WHEN SCHEDULING INSPECTIONS, PLEASE CALL THE PUBLIC WORKS ADMINISTRATIVE ASSISTANT AT (919) 217-2250.
PLEASE NOTE: THE FOLLOWING PERSONNEL MUST BE PRESENT AT ALL INSPECTIONS:
1. SITE SUPERVISOR.
2. GEOTECH.
3. AS-BUILT CERTIFYING ENGINEER OR SOMEONE UNDER THEIR SUPERVISION.

THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SCM WITH DAM:
1. KEY TRENCH EXCAVATION.
2. PRINCIPAL SPILLWAY PIPE AND ASSOCIATED COMPONENTS:
   a. CONCRETE CRADLE.
   b. ANTI-SEEP COLLAR.
   c. SEEPAGE DIAPHRAGM.
3. OUTLET STRUCTURE.
4. ANTI-FLOTATION BALLAST.
5. ANY SITE-CONSTRUCTED REINFORCED CONCRETE STRUCTURES.

THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SAND FILTERS OR BIORETENTION DEVICES:
   a. SUBGRADE OR CONSTRUCTED FOUNDATION.
   b. OUTLET OR RISER IN COMBINATION WITH CONNECTING UNDERDRAINS.
   c. FILTER MEDIA.
   d. DAM ITEMS ON PREVIOUS LIST IF APPLICABLE.

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1. DAM EMBANKMENT MATERIAL COMPOSITION AND DENSITY TESTING.
2. MAP THAT LABELS ALL POINTS WHERE THE DAM AND DAM FOUNDATION AREAS WERE TESTED.
3. DIGITAL PHOTOS SHOWING THE DAM FOUNDATION AREAS, THE RISER, THE PRINCLIPLE SPILLWAY PIPE, THE CONCRETE CRADLE, THE SEEPAGE DIAPHRAM, RELIEF DRAINS, ETC., BEING INSTALLED.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

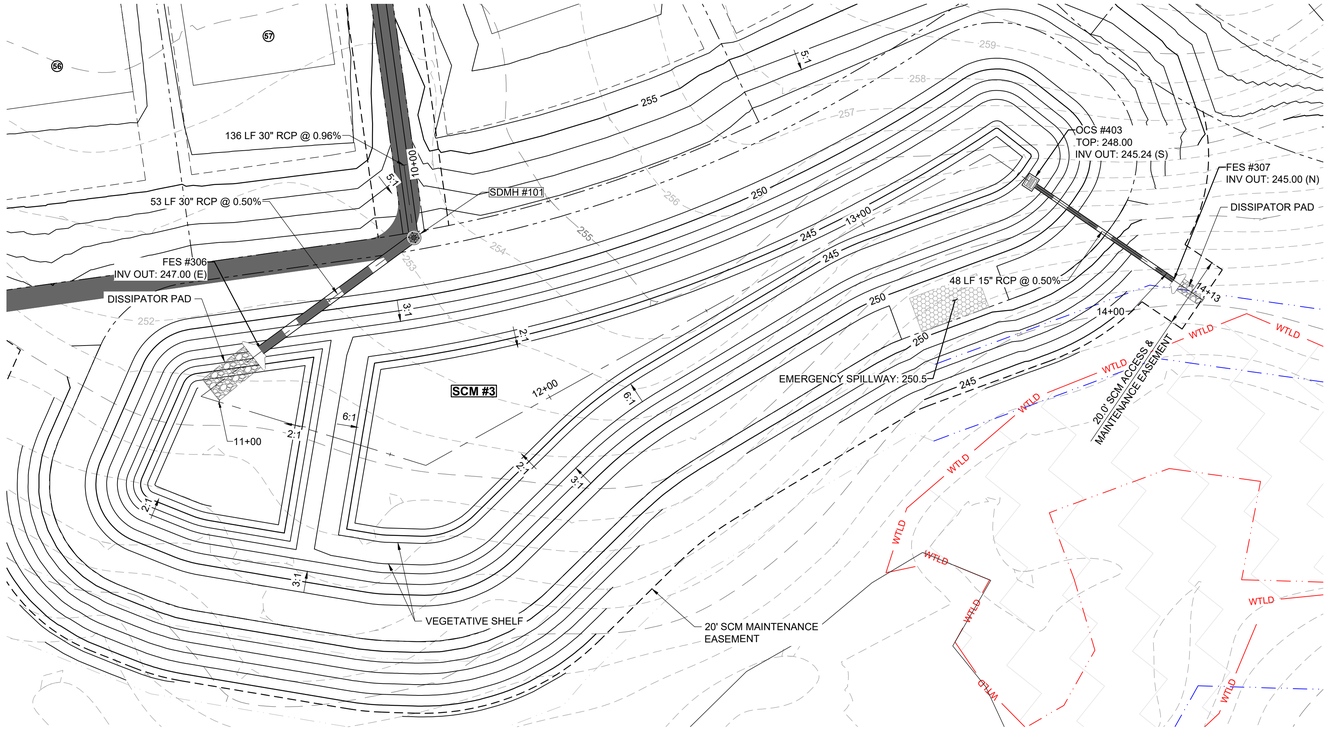
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**STORM CONTROL MEASURES**

DRAWING SHEET
**C-11.1**

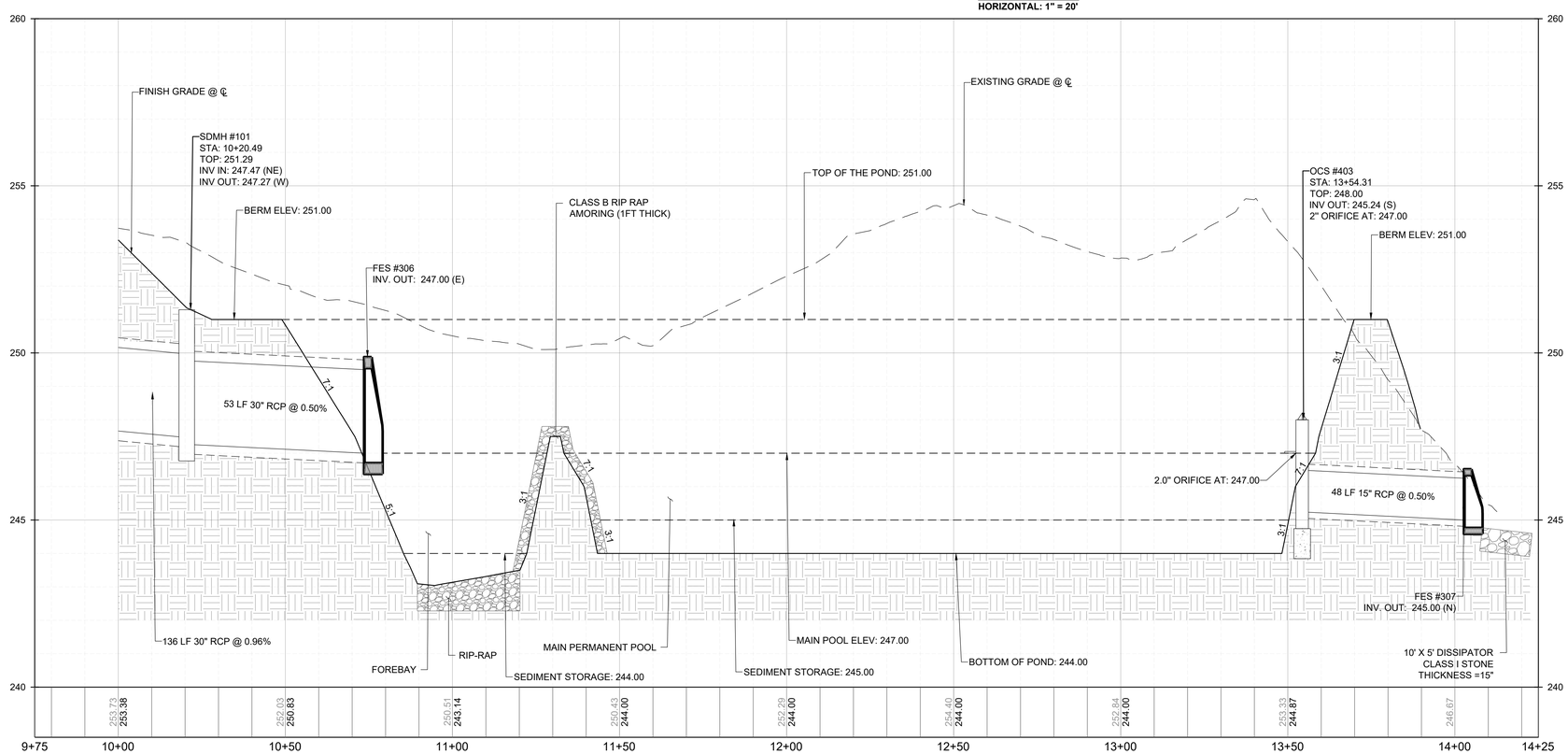
**46 OF 112**

## SCM BASIN REMOVAL SEQUENCE:

1. SCHEDULE A SITE MEETING WITH THE TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE 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: TOWN OF KNIGHTDALE, TOK 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.
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4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID BERMUDA).
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL EROSION CONTROL INSPECTOR 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 EROSION CONTROL INSPECTOR AND STORMWATER TECHNICIAN TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE.




### SCM #3 - PLAN
**HORIZONTAL: 1" = 20'**




### SCM # 3 - PROFILE
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

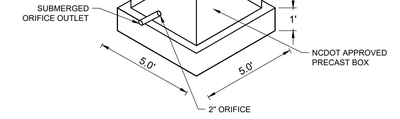
## TOWN OF KNIGHTDALE SCM PLANTING NOTES:

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2. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 PLANTS PER 200 FEET OF SHELF AREA.
3. CONTRACTOR TO WORK WITH SOILS SCIENTIST TO ENSURE SOILS ARE ADEQUATE TO SUPPORT PROPER ESTABLISHMENT AND GROWTH OF THE AQUATIC PLANTINGS. CONTRACTOR TO AMEND SOILS AND INSTALL SOILS IN PLANT, SHRUB, AND TREE AREAS PER DETAILS, SOIL SPECIFICATIONS. NCDENR SPECIFICATION, AND SOIL SCIENTIST RECOMMENDATIONS.
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7. CONTRACTOR SHALL WATER ALL VEGETATION AND GRASS ON A WEEKLY BASIS AS NEEDED TO ENSURE GRASS AND PLANT SURVIVAL UNTIL AFTER THE SCM IS CERTIFIED AND ACCEPTED BY THE TOWN.

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20 ft.




### OUTLET CONTROL STRUCTURE DETAIL
N.T.S

## REQUIRED SCM INSPECTIONS SEQUENCE - SCM INSTILLATION:

WHEN SCHEDULING INSPECTIONS, PLEASE CALL THE PUBLIC WORKS ADMINISTRATIVE ASSISTANT AT (919) 217-2250.
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BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

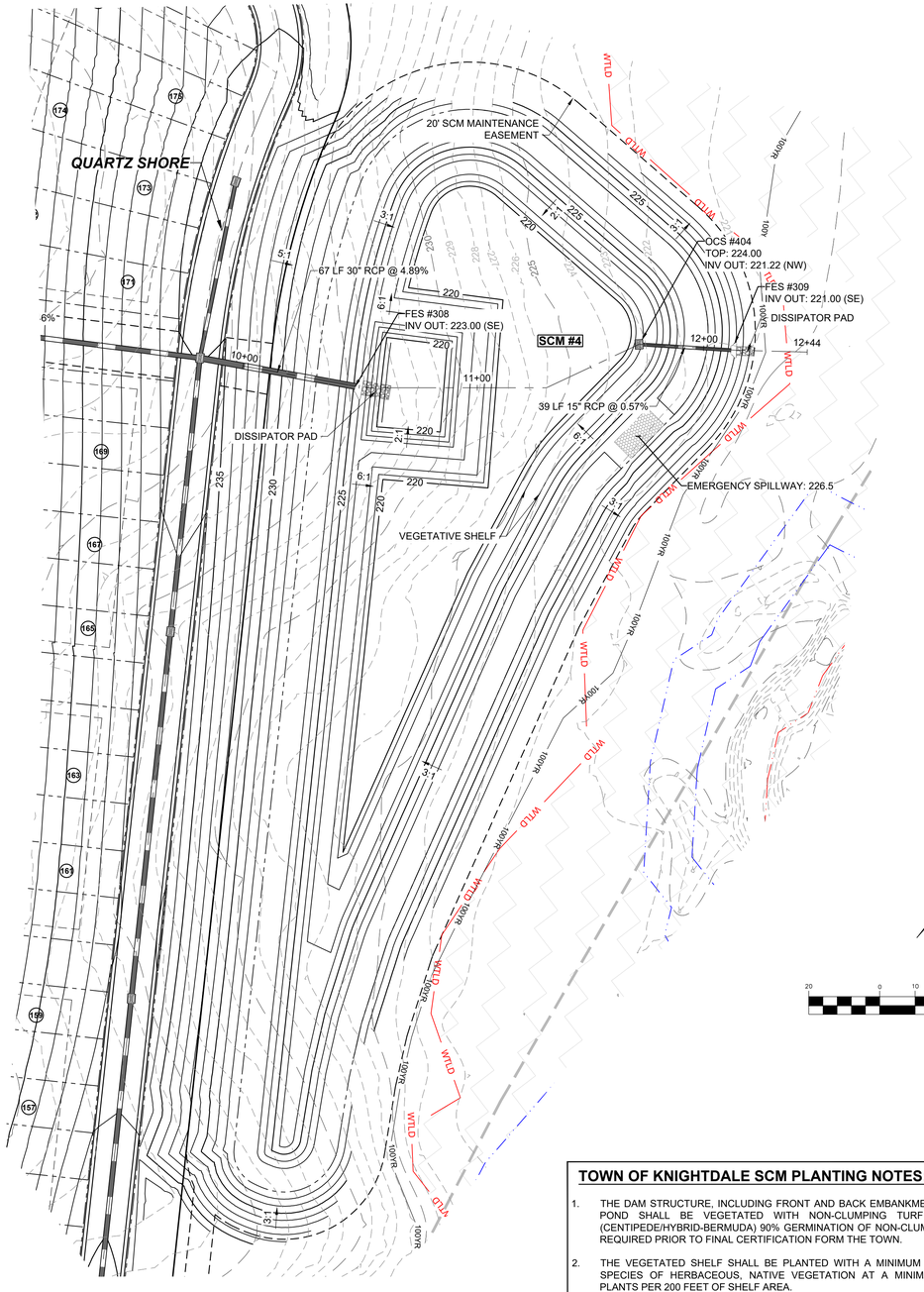
STRONGROCK ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

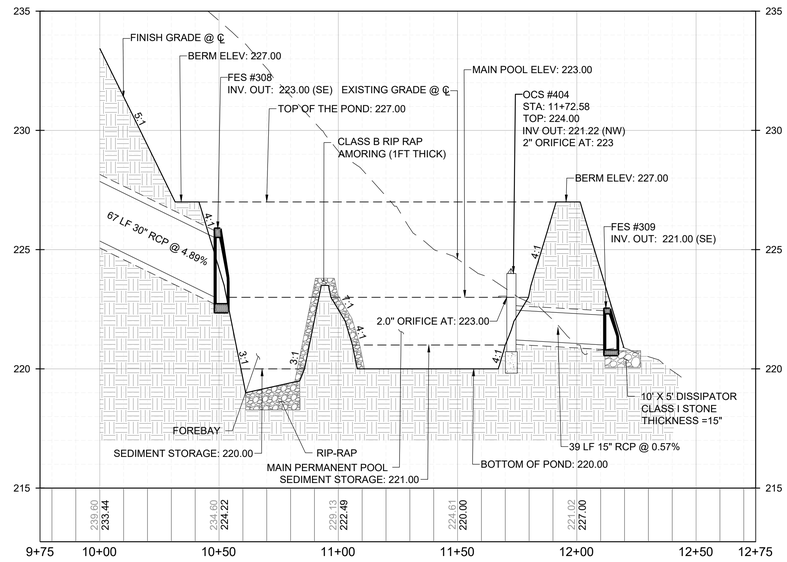
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**STORM CONTROL MEASURES**

DRAWING SHEET
**C-11.2**

**47 OF 112**




**SCM #4 - PLAN**
**HORIZONTAL: 1" = 30'**




**SCM #4 - PROFILE**
**VERTICAL: 1" = 3'**
**HORIZONTAL: 1" = 30'**



GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20 ft.




**OUTLET CONTROL STRUCTURE DETAIL**
N.T.S

**A. TOWN CERTIFICATION** . THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## TOWN OF KNIGHTDALE SCM PLANTING NOTES:

1. THE DAM STRUCTURE, INCLUDING FRONT AND BACK EMBANKMENT SLOPES, OF THE POND SHALL BE VEGETATED WITH NON-CLUMPING TURF GRASS OR SOD. (CENTIPEDE/HYBRID-BERMUDA) 90% GERMINATION OF NON-CLUMPING TURF WILL BE REQUIRED PRIOR TO FINAL CERTIFICATION FORM THE TOWN.
2. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 PLANTS PER 200 FEET OF SHELF AREA.
3. CONTRACTOR TO WORK WITH SOILS SCIENTIST TO ENSURE SOILS ARE ADEQUATE TO SUPPORT PROPER ESTABLISHMENT AND GROWTH OF THE AQUATIC PLANTINGS. CONTRACTOR TO AMEND SOILS AND INSTALL SOILS IN PLANT, SHRUB, AND TREE AREAS PER DETAILS, SOIL SPECIFICATIONS. NCDENR SPECIFICATION, AND SOIL SCIENTIST RECOMMENDATIONS.
4. ALL AQUATIC PLANTINGS ARE TO BE INSTALLED DURING THE APPROPRIATE TIME OF YEAR TO ENSURE SURVIVABILITY. (LAST SPRING FROST AND THE FIRST FALL FROST).
5. ALL DISTURBED AREAS AROUND THE OUTSIDE OF THE DEVICE SHALL BE SEEDED WITH A LAWN AREA SEED MIX (PER SEEDING SPECIFICATIONS) NATIVE GRASSES, LEGUMES, CLOVERS, AND WILDFLOWERS.
6. IF THE DEVICE WAS USED DURING CONSTRUCTION AS A SEDIMENT BASIN OR TRAP, THE BASIN MUST BE CLEANED OUT, GRADED, APPROPRIATE AREAS COVERED WITH 4" OF TOPSOIL AS SPECIFIED IN NOTE #2 ABOVE, AND VEGETATED WITHIN 14 DAYS OF THE COMPLETION OF CONSTRUCTION.
7. CONTRACTOR SHALL WATER ALL VEGETATION AND GRASS ON A WEEKLY BASIS AS NEEDED TO ENSURE GRASS AND PLANT SURVIVAL UNTIL AFTER THE SCM IS CERTIFIED AND ACCEPTED BY THE TOWN.

## REQUIRED SCM INSPECTIONS SEQUENCE - SCM INSTILLATION:

WHEN SCHEDULING INSPECTIONS, PLEASE CALL THE PUBLIC WORKS ADMINISTRATIVE ASSISTANT AT (919) 217-2250.
PLEASE NOTE: THE FOLLOWING PERSONNEL MUST BE PRESENT AT ALL INSPECTIONS:
1. SITE SUPERVISOR.
2. GEOTECH.
3. AS-BUILT CERTIFYING ENGINEER OR SOMEONE UNDER THEIR SUPERVISION.

THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SCM WITH DAM:
1. KEY TRENCH EXCAVATION.
2. PRINCIPAL SPILLWAY PIPE AND ASSOCIATED COMPONENTS:
   a. CONCRETE CRADLE.
   b. ANTI-SEEP COLLAR.
   c. SEEPAGE DIAPHRAGM.
3. OUTLET STRUCTURE.
4. ANTI-FLOTATION BALLAST.
5. ANY SITE-CONSTRUCTED REINFORCED CONCRETE STRUCTURES.

THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SAND FILTERS OR BIORETENTION DEVICES:
   a. SUBGRADE OR CONSTRUCTED FOUNDATION.
   b. OUTLET OR RISER IN COMBINATION WITH CONNECTING UNDERDRAINS.
   c. FILTER MEDIA.
   d. DAM ITEMS ON PREVIOUS LIST IF APPLICABLE.

GEOTECHNICAL TESTING AND CERTIFICAITON.
ALL REPORTS ARE TO BE SUBMITTED WITHIN 30-DAYS OF DAM COMPLETION REQUIRED GEOTECHNICAL RECORDS INCLUDE:
1. DAM EMBANKMENT MATERIAL COMPOSITION AND DENSITY TESTING.
2. MAP THAT LABELS ALL POINTS WHERE THE DAM AND DAM FOUNDATION AREAS WERE TESTED.
3. DIGITAL PHOTOS SHOWING THE DAM FOUNDATION AREAS, THE RISER, THE PRINCLIPLE SPILLWAY PIPE, THE CONCRETE CRADLE, THE SEEPAGE DIAPHRAM, RELIEF DRAINS, ETC., BEING INSTALLED.

## SCM BASIN REMOVAL SEQUENCE:

1. SCHEDULE A SITE MEETING WITH THE TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE 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: TOWN OF KNIGHTDALE, TOK 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 USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID BERMUDA).
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL EROSION CONTROL INSPECTOR 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 EROSION CONTROL INSPECTOR AND STORMWATER TECHNICIAN TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

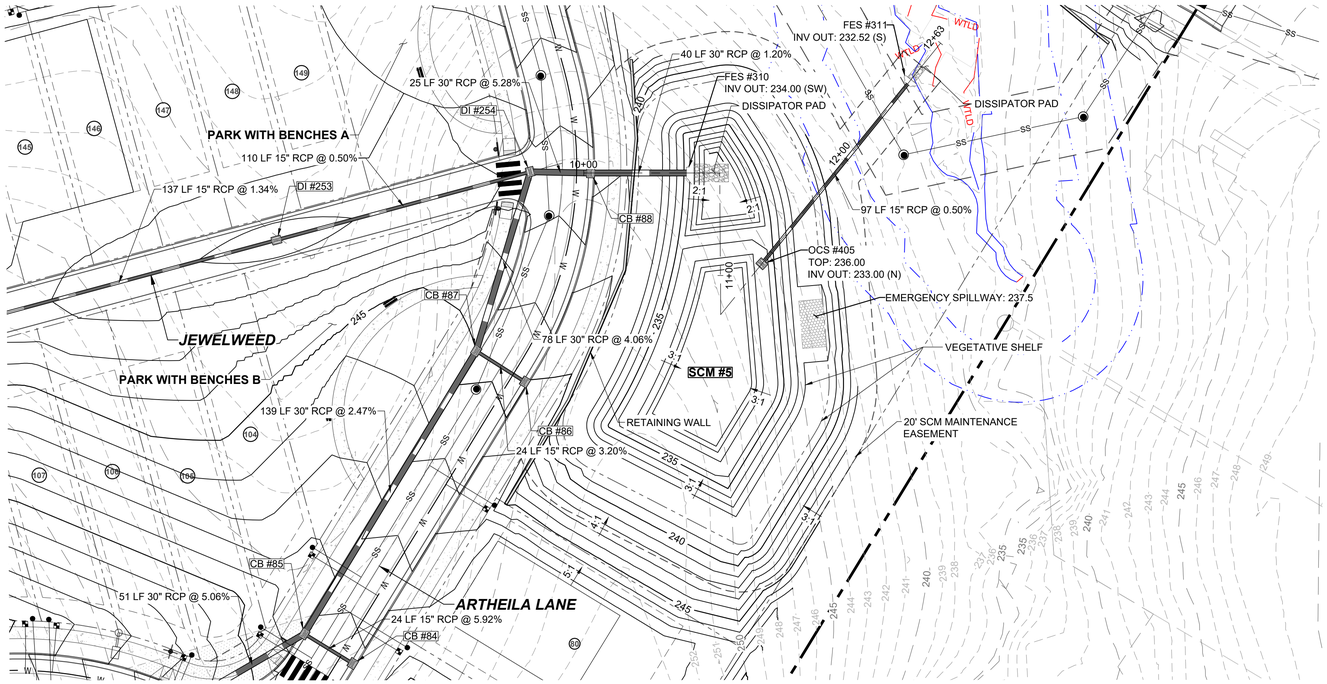
| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
| DESIGNED BY | JWL | DRAWN BY | SRG |
| CHECKED BY | JWL | | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**STORM CONTROL MEASURES**

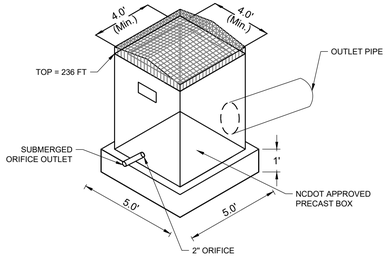
DRAWING SHEET
**C-11.3**

## SCM BASIN REMOVAL SEQUENCE:

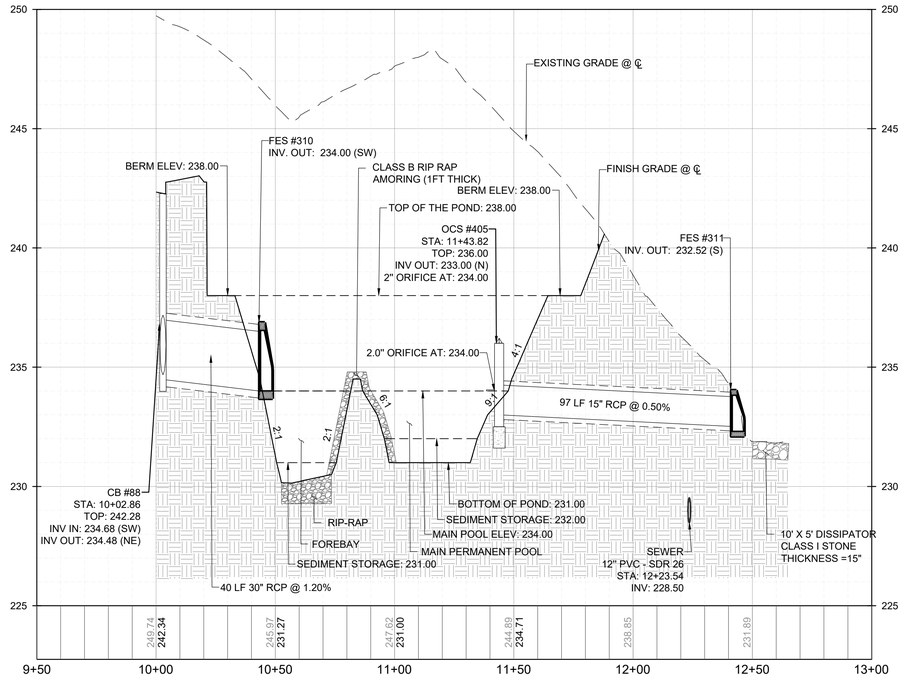
1. SCHEDULE A SITE MEETING WITH THE TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
2. CONTACT NCDEQ – RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE 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: TOWN OF KNIGHTDALE, TOK 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.
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4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID BERMUDA).
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL EROSION CONTROL INSPECTOR 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 EROSION CONTROL INSPECTOR AND STORMWATER TECHNICIAN TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE.




**SCM #5 - PLAN**
**HORIZONTAL: 1" = 30'**




**OUTLET CONTROL STRUCTURE DETAIL**
N.T.S




**SCM #5 - PROFILE**
**VERTICAL: 1" = 3'**
**HORIZONTAL: 1" = 30'**

## TOWN OF KNIGHTDALE SCM PLANTING NOTES:

1. THE DAM STRUCTURE, INCLUDING FRONT AND BACK EMBANKMENT SLOPES, OF THE POND SHALL BE VEGETATED WITH NON-CLUMPING TURF GRASS OR SOD. (CENTIPEDE/HYBRID-BERMUDA) 90% GERMINATION OF NON-CLUMPING TURF WILL BE REQUIRED PRIOR TO FINAL CERTIFICATION FORM THE TOWN.
2. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 PLANTS PER 200 FEET OF SHELF AREA.
3. CONTRACTOR TO WORK WITH SOILS SCIENTIST TO ENSURE SOILS ARE ADEQUATE TO SUPPORT PROPER ESTABLISHMENT AND GROWTH OF THE AQUATIC PLANTINGS. CONTRACTOR TO AMEND SOILS AND INSTALL SOILS IN PLANT, SHRUB, AND TREE AREAS PER DETAILS, SOIL SPECIFICATIONS. NCDENR SPECIFICATION, AND SOIL SCIENTIST RECOMMENDATIONS.
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7. CONTRACTOR SHALL WATER ALL VEGETATION AND GRASS ON A WEEKLY BASIS AS NEEDED TO ENSURE GRASS AND PLANT SURVIVAL UNTIL AFTER THE SCM IS CERTIFIED AND ACCEPTED BY THE TOWN.

GRAPHIC SCALE
30 0 15 30 60 120
( IN FEET )
1 inch = 30 ft.

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2. GEOTECH.
3. AS-BUILT CERTIFYING ENGINEER OR SOMEONE UNDER THEIR SUPERVISION.

THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SCM WITH DAM:
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2. PRINCIPAL SPILLWAY PIPE AND ASSOCIATED COMPONENTS:
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   b. ANTI-SEEP COLLAR
   c. SEEPAGE DIAPHRAGM.
3. OUTLET STRUCTURE.
4. ANTI-FLOTATION BALLAST.
5. ANY SITE-CONSTRUCTED REINFORCED CONCRETE STRUCTURES.

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   b. OUTLET OR RISER IN COMBINATION WITH CONNECTING UNDERDRAINS.
   c. FILTER MEDIA.
   d. DAM ITEMS ON PREVIOUS LIST IF APPLICABLE.

GEOTECHNICAL TESTING AND CERTIFICAITON.
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2. MAP THAT LABELS ALL POINTS WHERE THE DAM AND DAM FOUNDATION AREAS WERE TESTED.
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**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

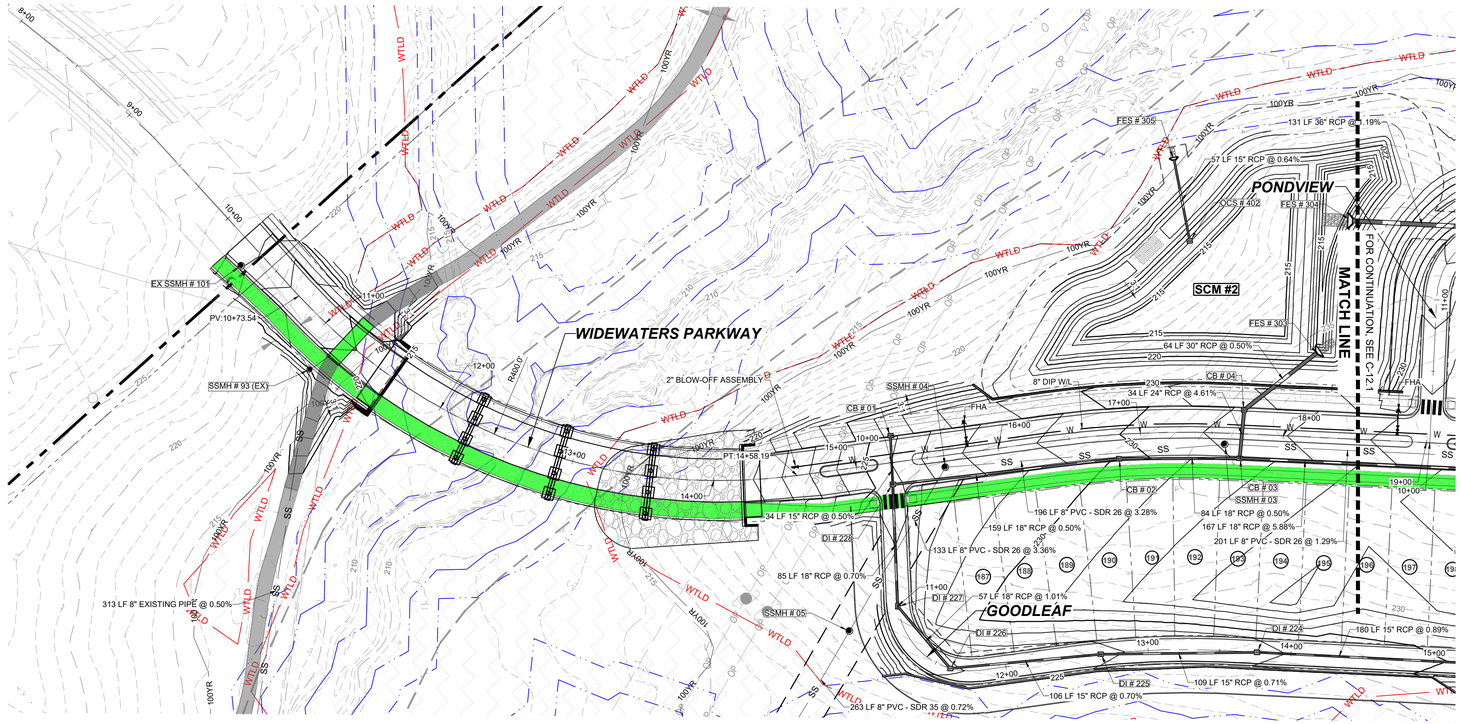
STRONGROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**STORM CONTROL MEASURES**

DRAWING SHEET
**C-11.4**

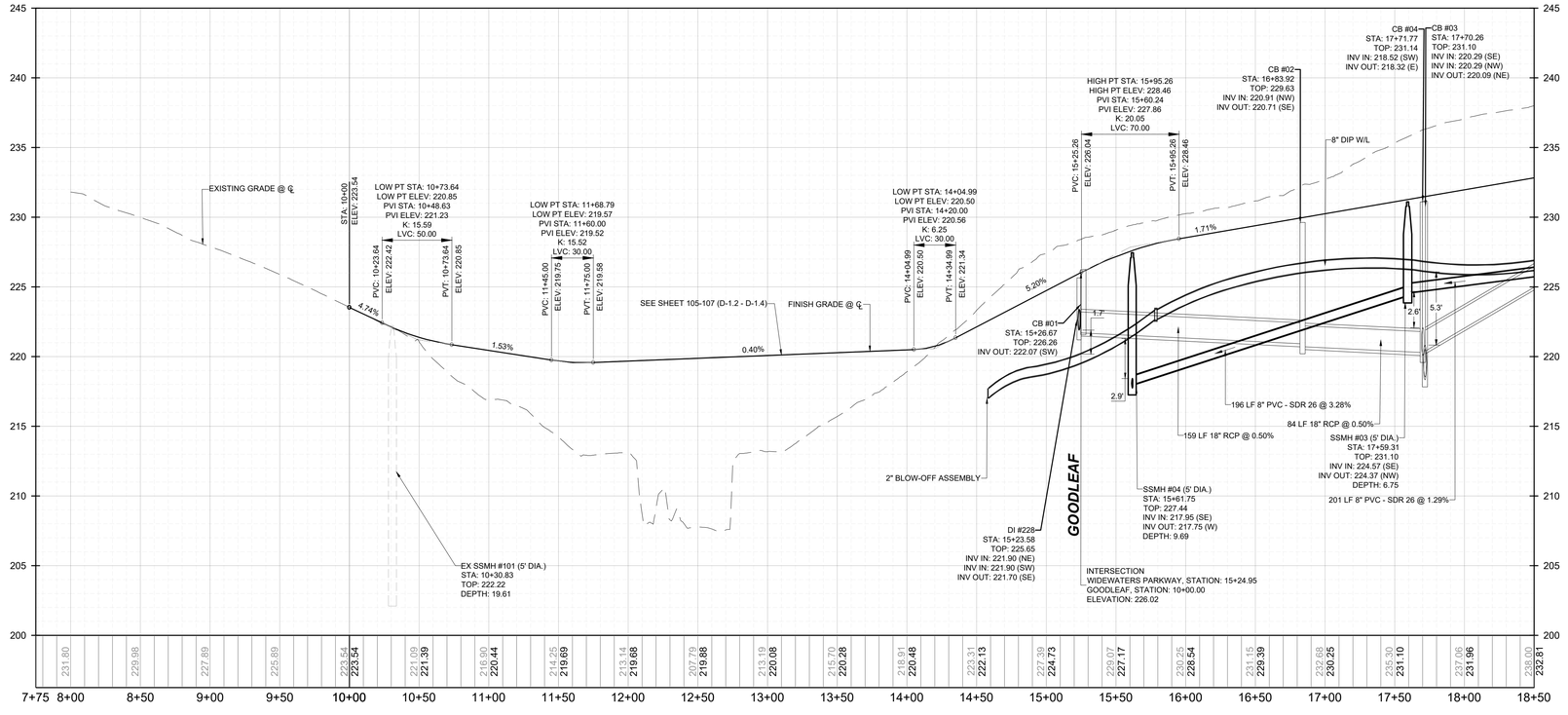



**PROPOSED WIDEWATERS PARKWAY - PLAN**
**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




**PROPOSED WIDEWATERS PARKWAY - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK. CITY OF RALEIGH PUBLIC. CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

STRONGROCK

ENGINEERING GROUP

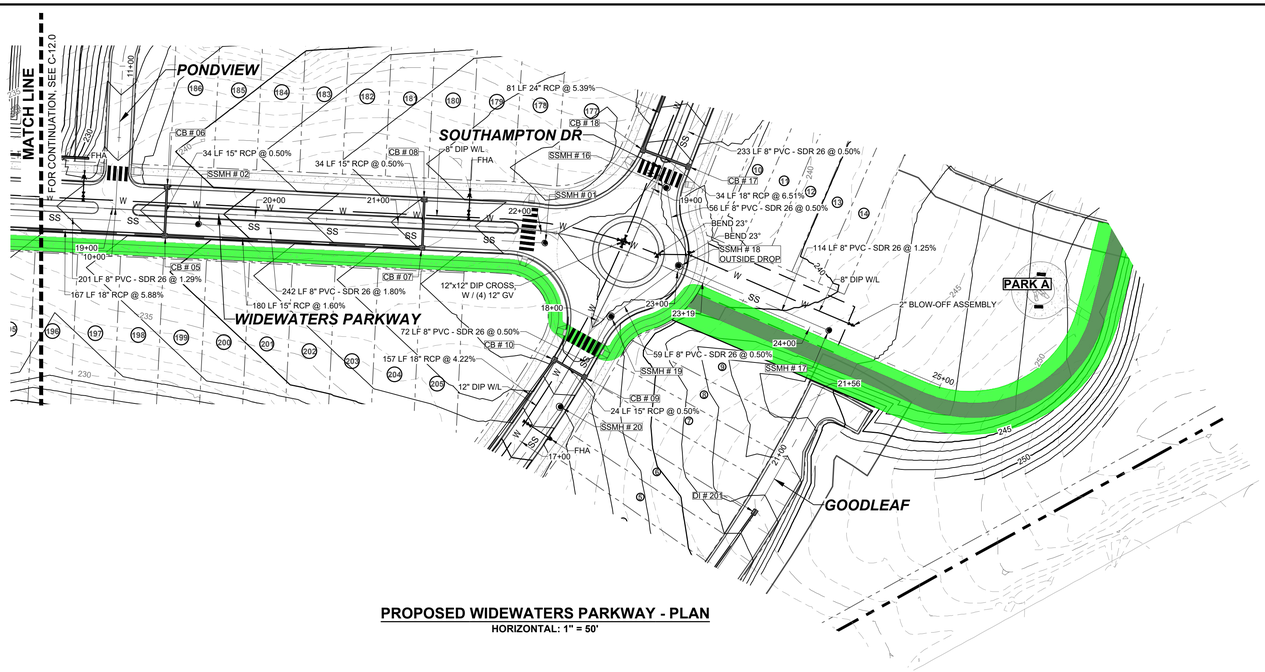
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM
305 CHURCH AT NORTH HILLS STREET, SUITE 1110

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**PROPOSED WIDEWATERS PARKWAY - PLAN & PROFILE**

DRAWING / SHEET
**C-12.0**

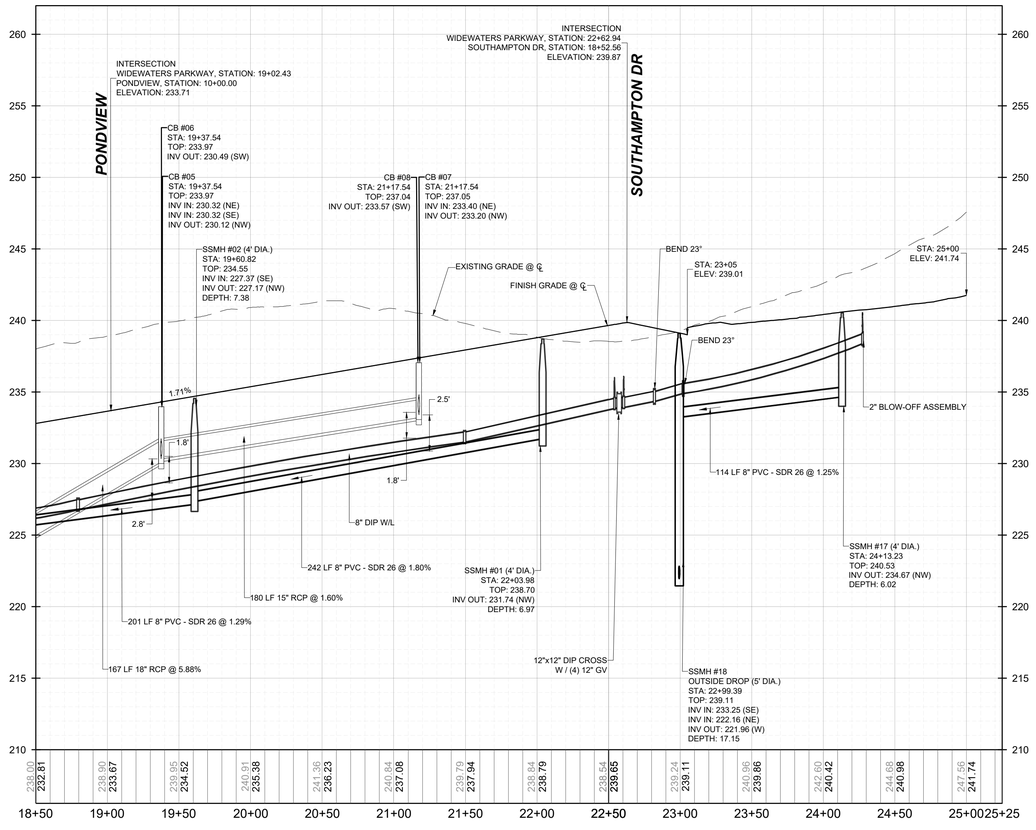



**PROPOSED WIDEWATERS PARKWAY - PLAN**
**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




**PROPOSED WIDEWATERS PARKWAY - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK. CITY OF RALEIGH PUBLIC. CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

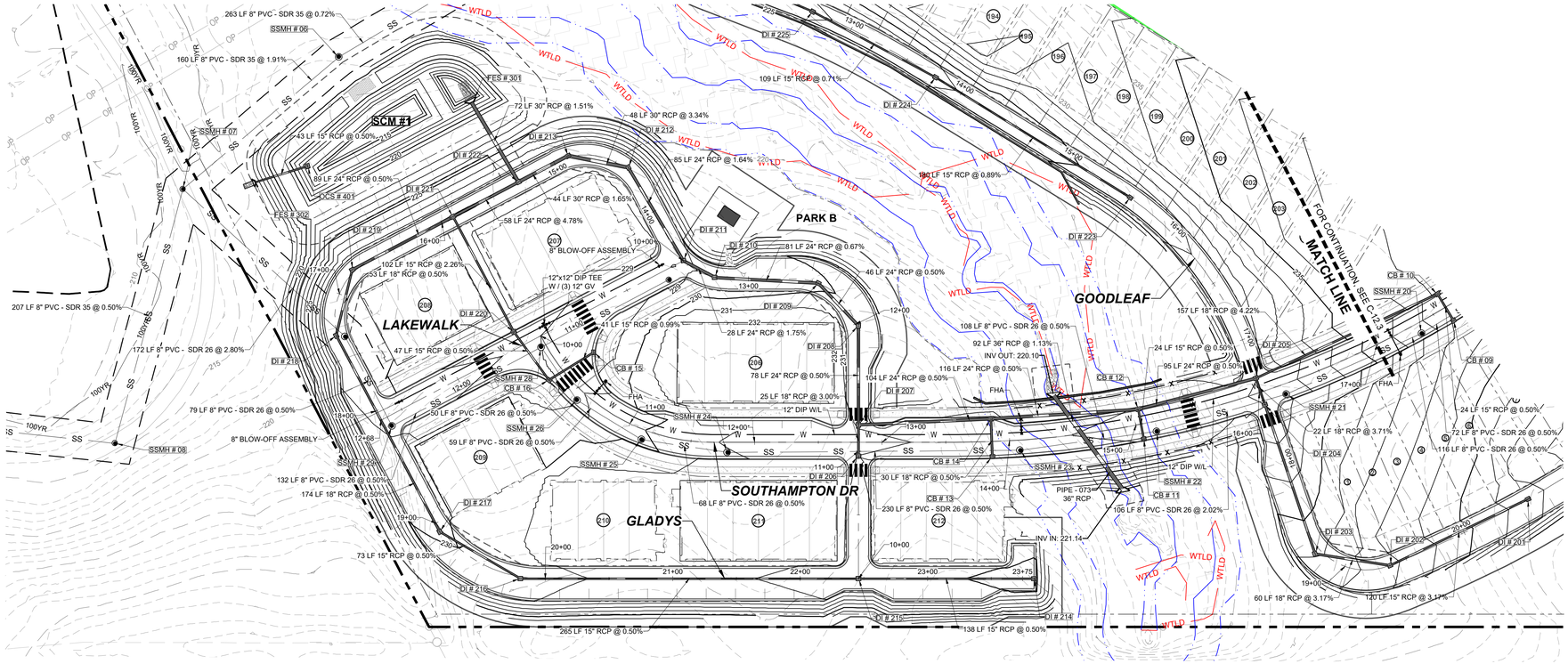
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| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**PROPOSED WIDEWATERS PARKWAY - PLAN & PROFILE**

DRAWING SHEET
**C-12.1**




## PROPOSED SOUTHAMPTON DR - PLAN

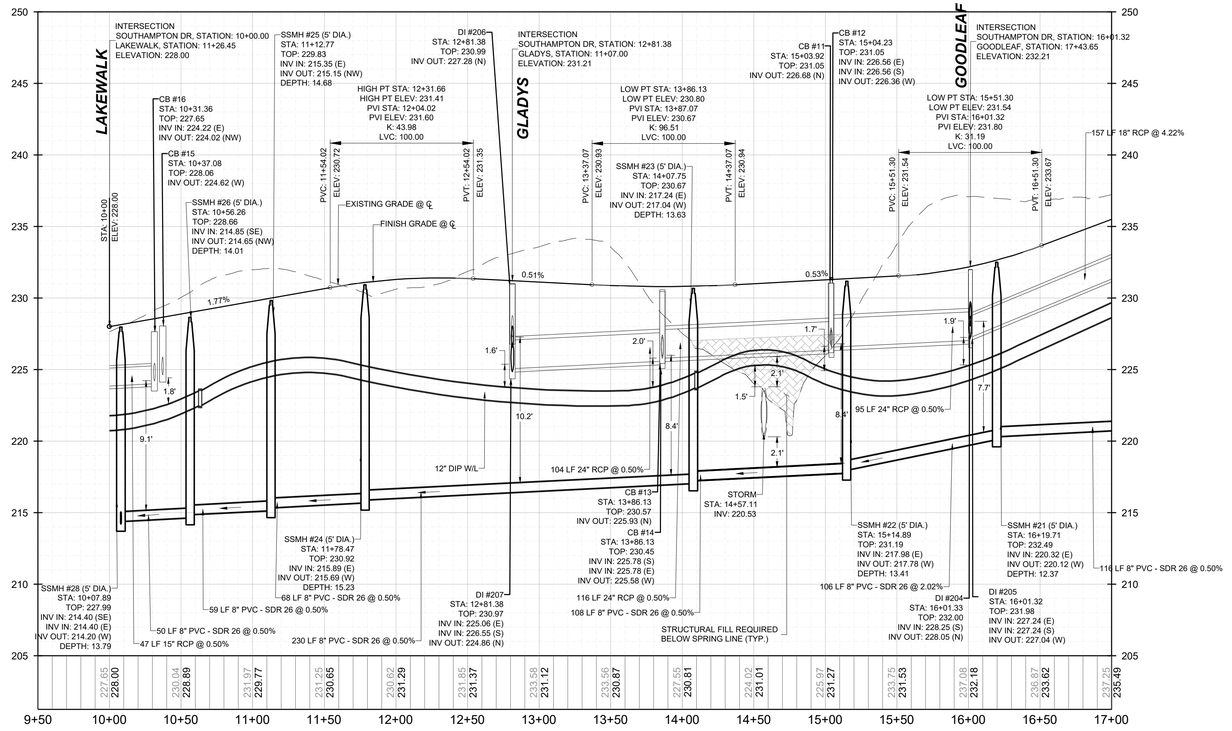
**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )

1 inch = 50 ft.




## PROPOSED SOUTHAMPTON DR - PROFILE

**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | | | |
| NOT FOR CONSTRUCTION | SCALE | AS SHOWN | |
| | DESIGNED BY | JWL | |
| | DRAWN BY | SRG | |
| | CHECKED BY | JWL | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED SOUTHAMPTON DR - PLAN & PROFILE**

DRAWING SHEET
**C-12.2**

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

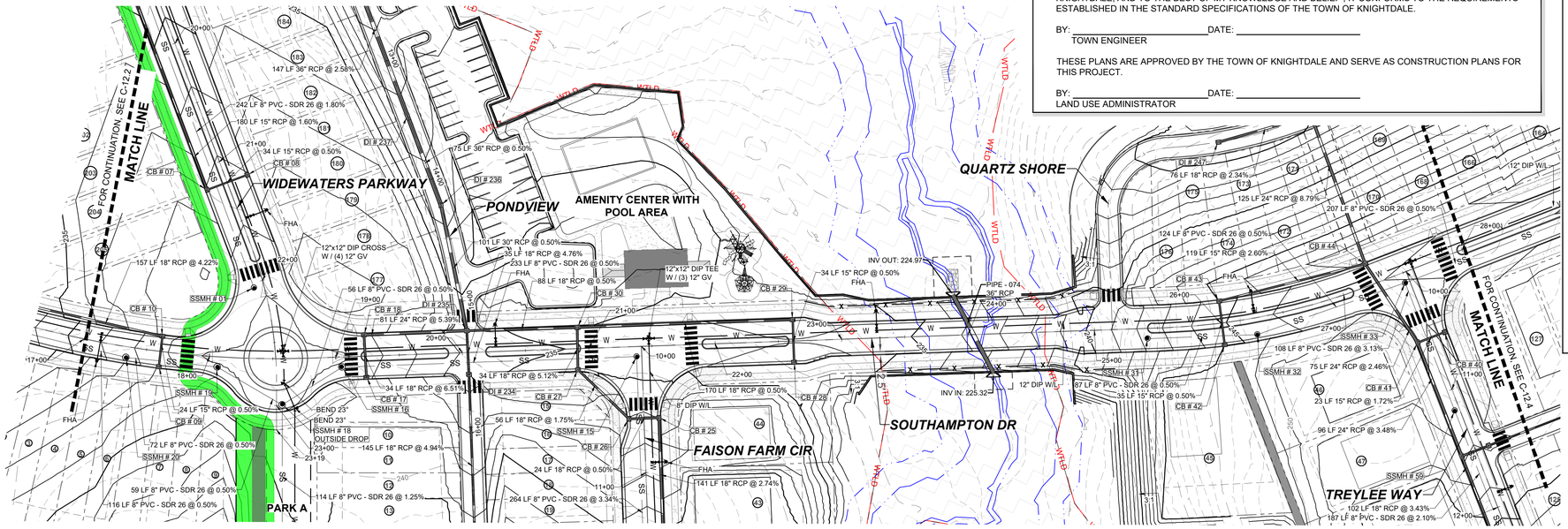
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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____



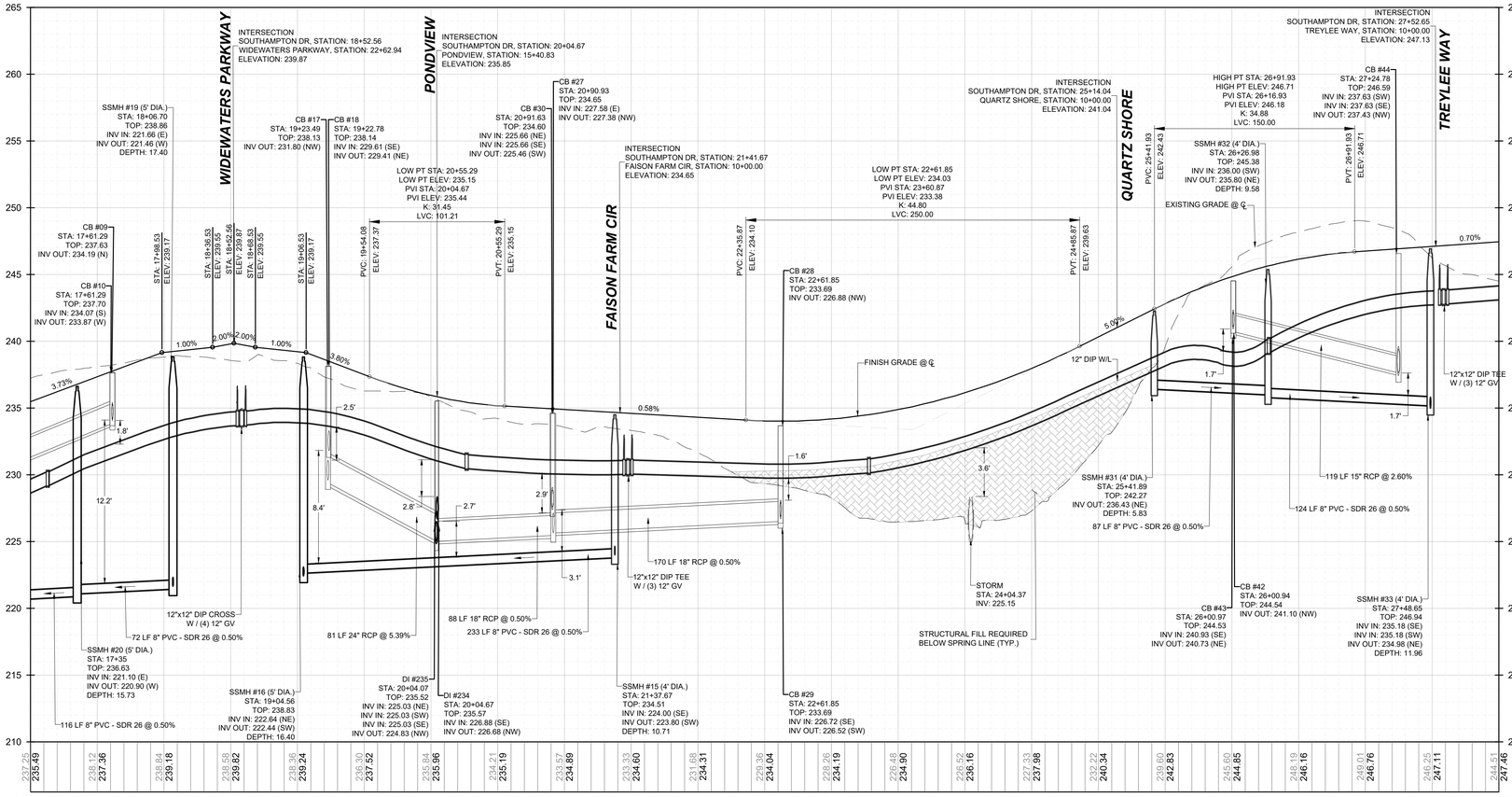

## PROPOSED SOUTHAMPTON DR - PLAN

**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




## PROPOSED SOUTHAMPTON DR - PROFILE

**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

STRONGROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| STRONG ROCK PROJECT | | | |
|---|---|---|---|
| | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED SOUTHAMPTON DR - PLAN & PROFILE**

DRAWING SHEET
**C-12.3**

**53 OF 112**

PROGRESS PLOT DATE: 1/16/2024

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

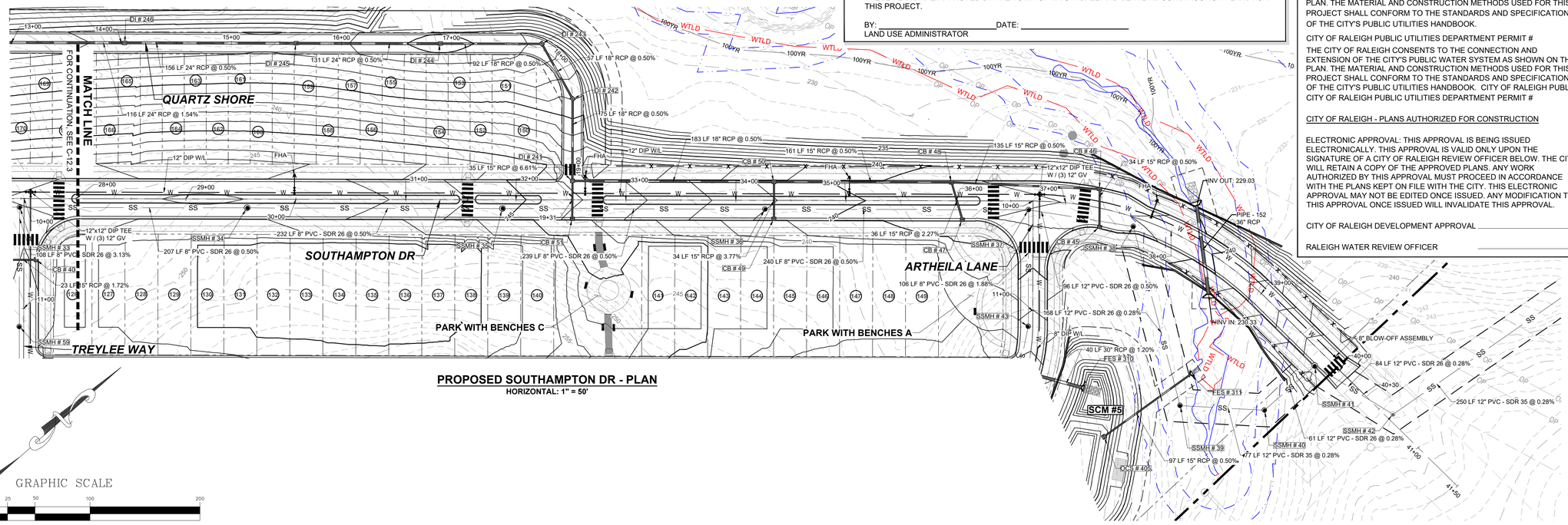
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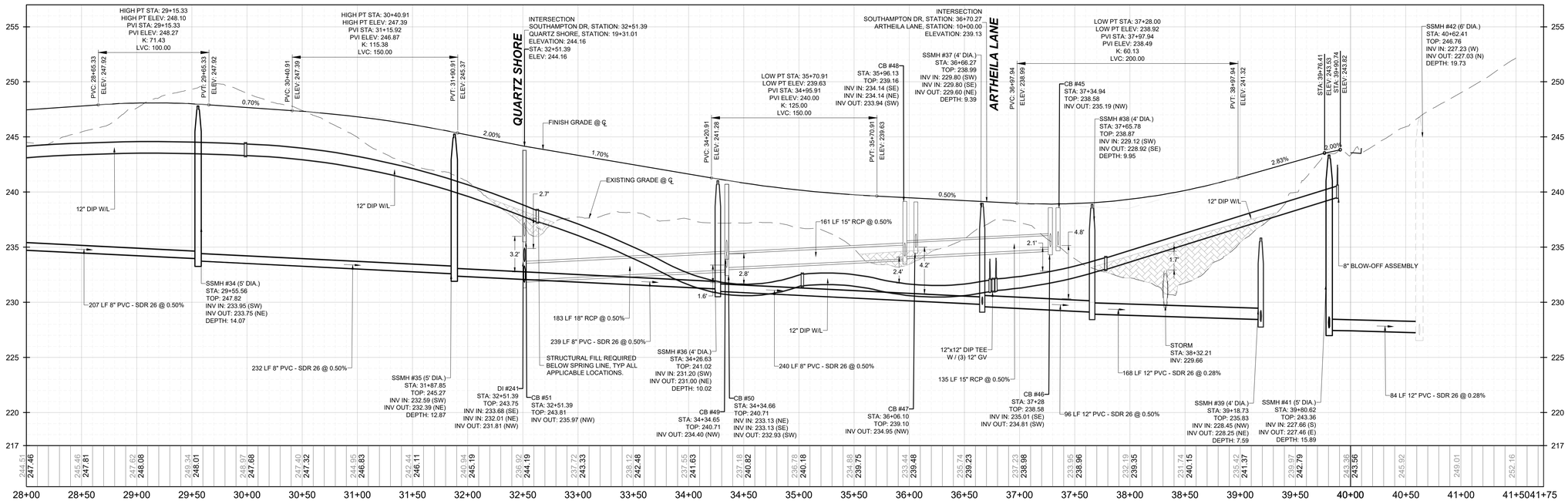
CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____




**PROPOSED SOUTHAMPTON DR - PLAN**
**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE
50 0 25 50 100 200
( IN FEET )
1 inch = 50 ft.




**PROPOSED SOUTHAMPTON DR - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONG ROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609

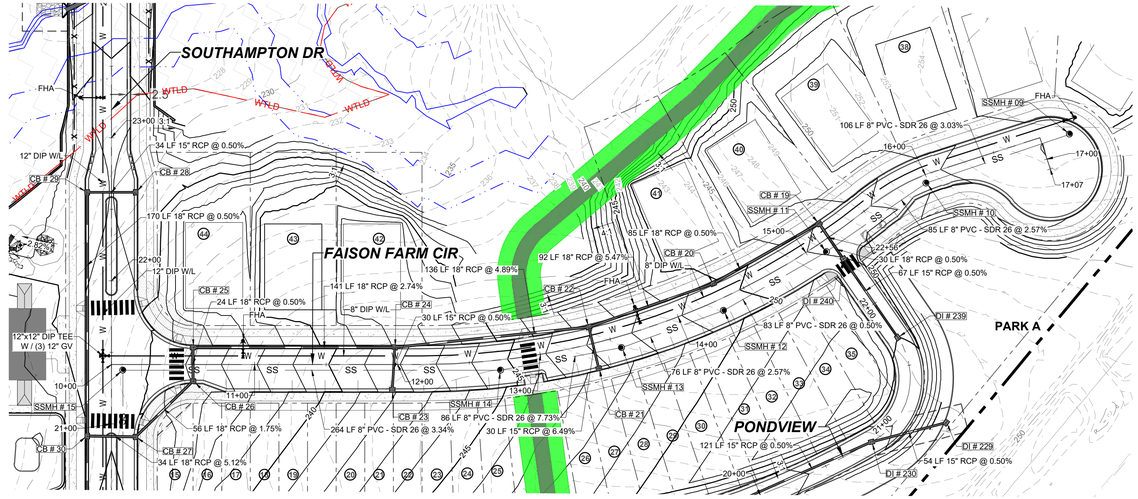
| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**PROPOSED SOUTHAMPTON DR - PLAN & PROFILE**

DRAWING SHEET
**C-12.4**

**54 OF 112**



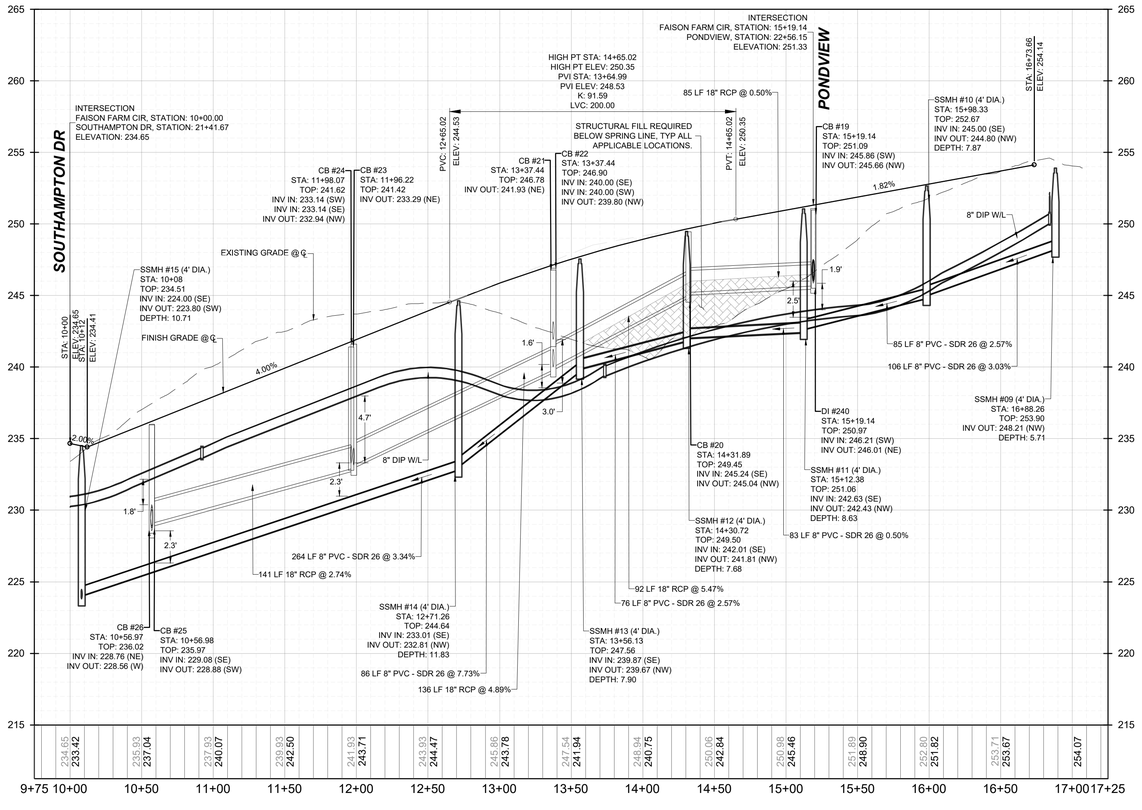

## PROPOSED FAISON FARM CIR - PLAN

**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




## PROPOSED FAISON FARM CIR - PROFILE

**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

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BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK ENGINEERING GROUP

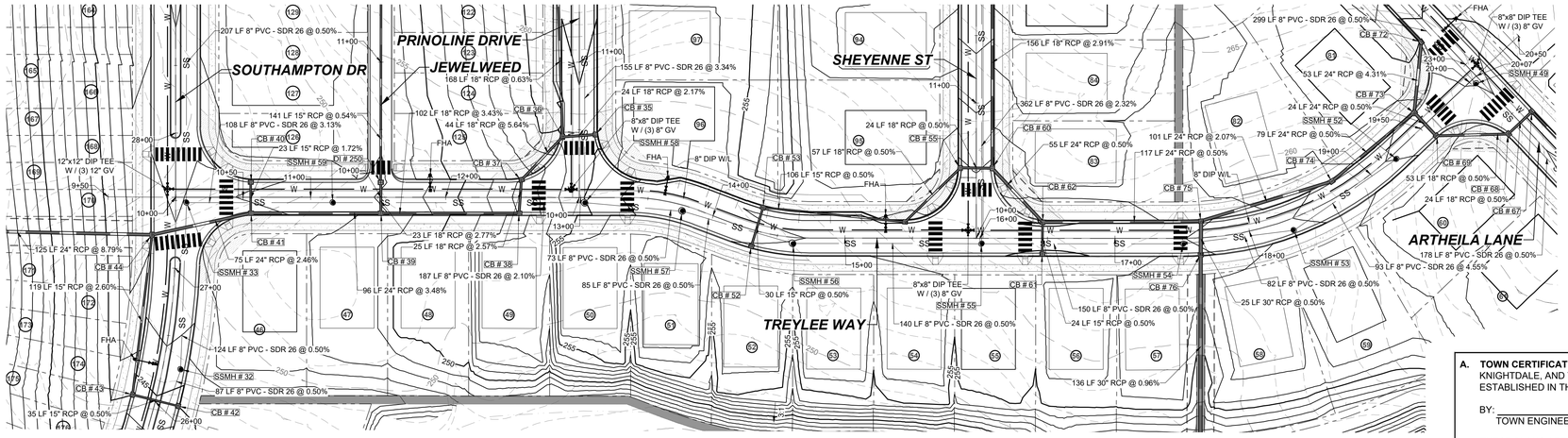
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED FAISON FARM CIR - PLAN & PROFILE**

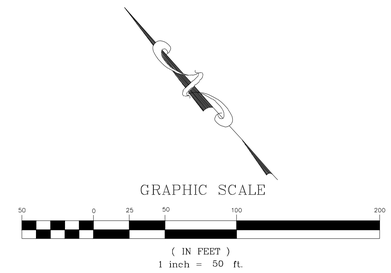
DRAWING SHEET
**C-12.5**

**55 OF 112**




## PROPOSED TREYLEE WAY - PLAN

**HORIZONTAL: 1" = 50'**

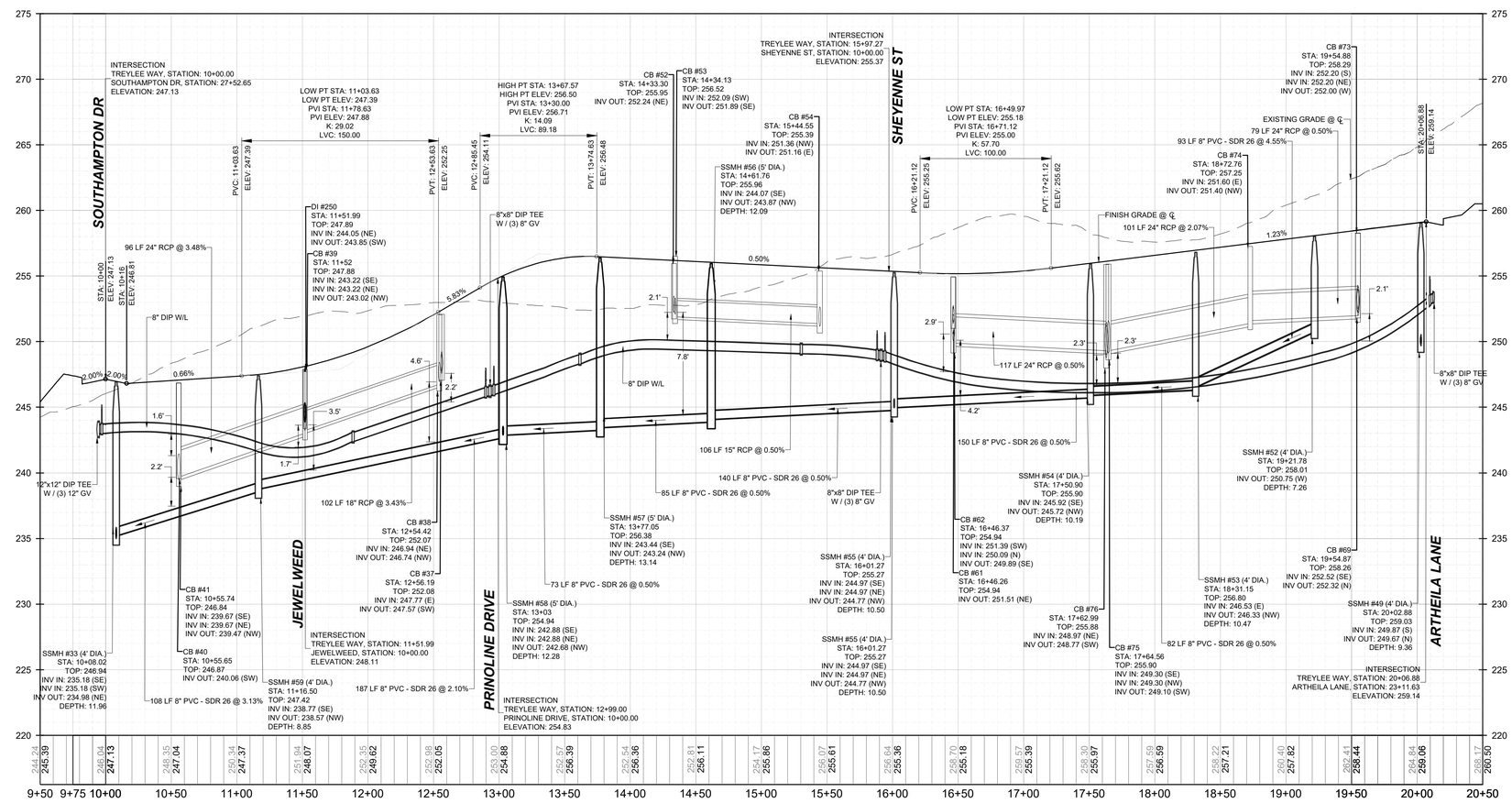



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BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR




## PROPOSED TREYLEE WAY - PROFILE

**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

| No. | REVISIONS | DATE | BY |
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| | | | |

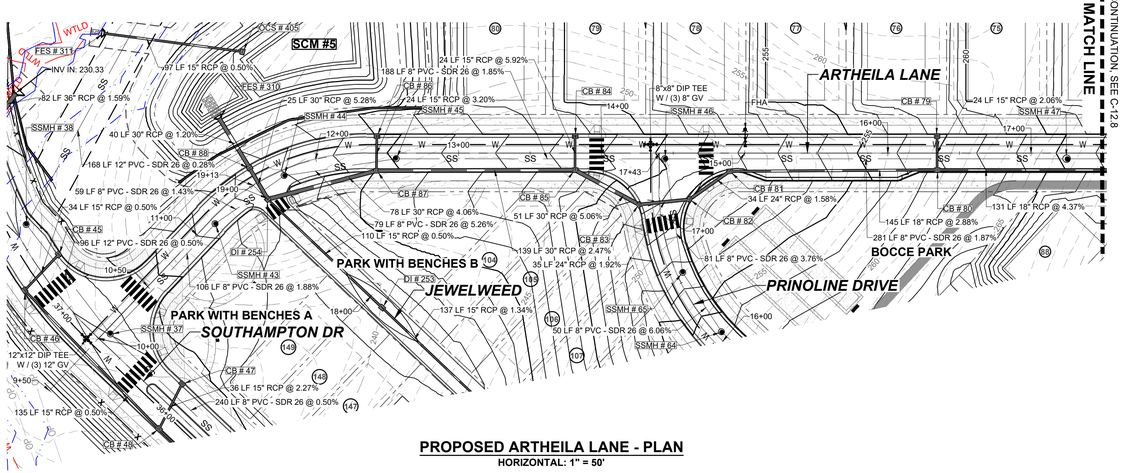
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036225 JOSHUA W. LAMBERT
SEAL

STRONGROCK
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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
| DESIGNED BY | JWL | DRAWN BY | SRG |
| CHECKED BY | JWL | | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED TREYLEE WAY - PLAN & PROFILE**

DRAWING SHEET
**C-12.6**

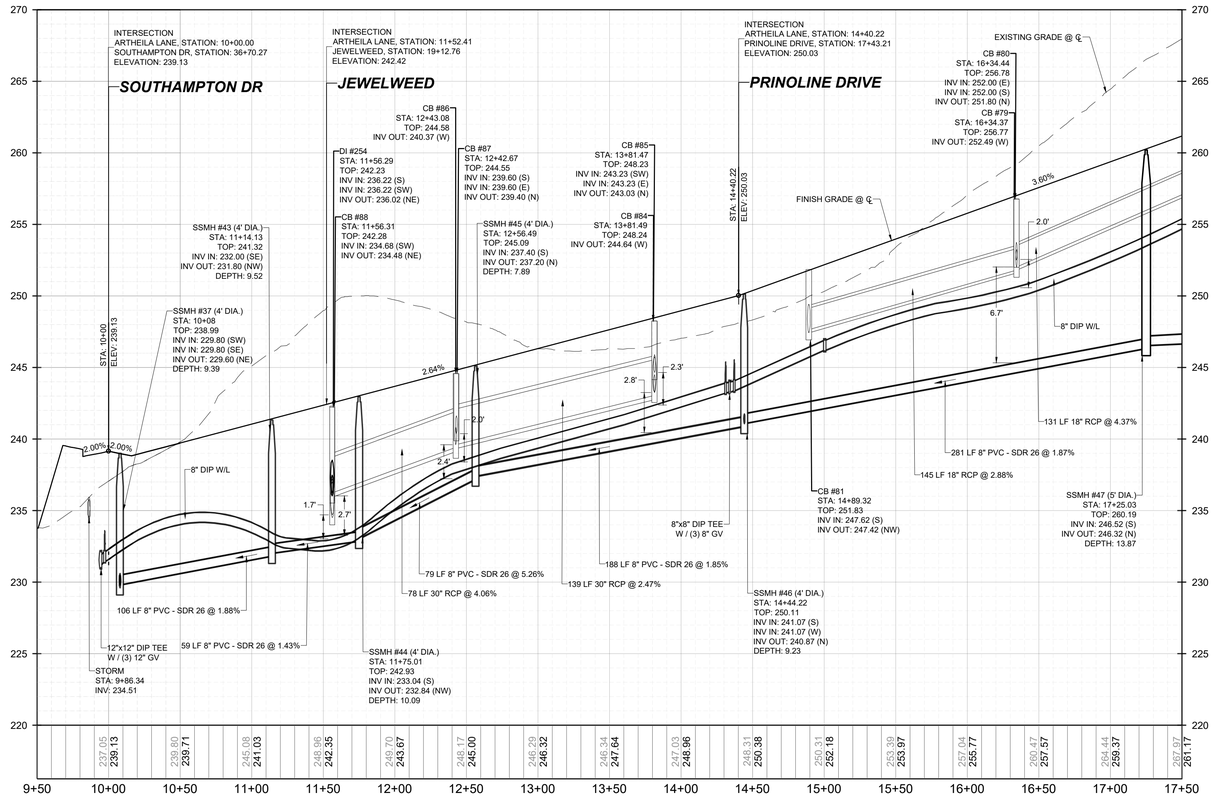



**PROPOSED ARTHEILA LANE - PLAN**
**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




**PROPOSED ARTHEILA LANE - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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RALEIGH WATER REVIEW OFFICER _____

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BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

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| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
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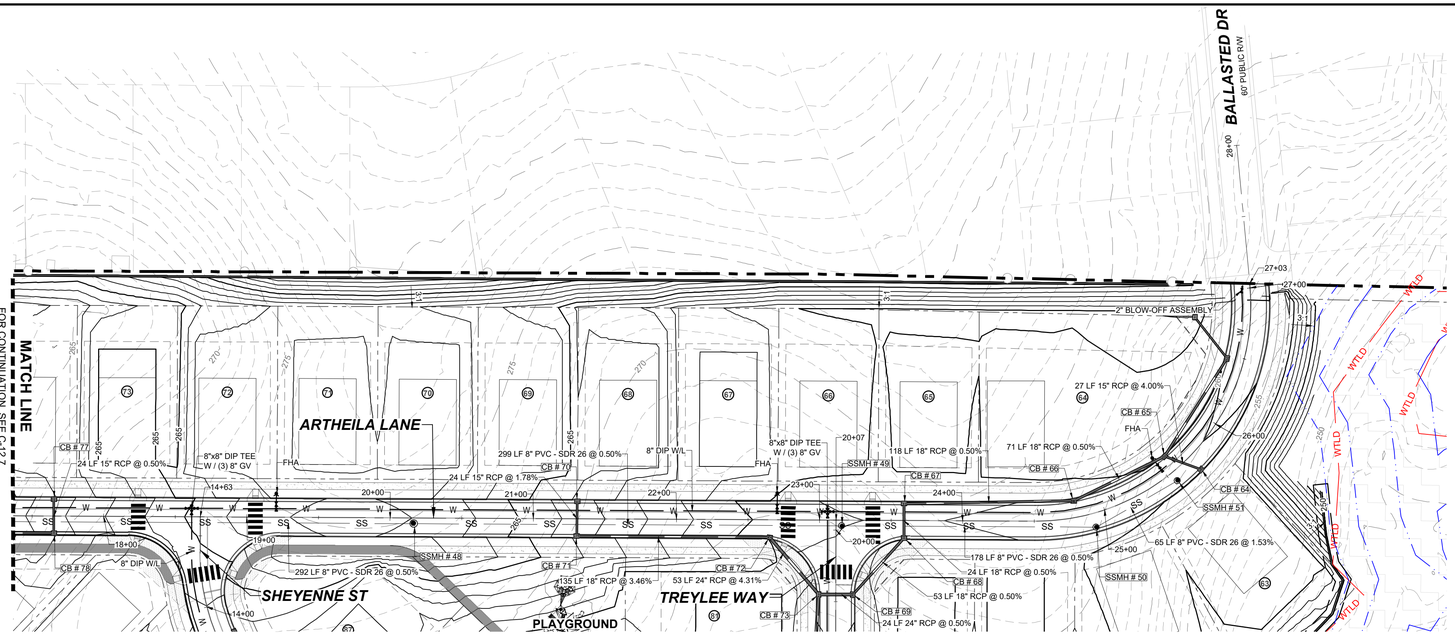
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**PROPOSED ARTHEILA LANE - PLAN & PROFILE**

DRAWING SHEET

**C-12.7**

**57 OF 112**

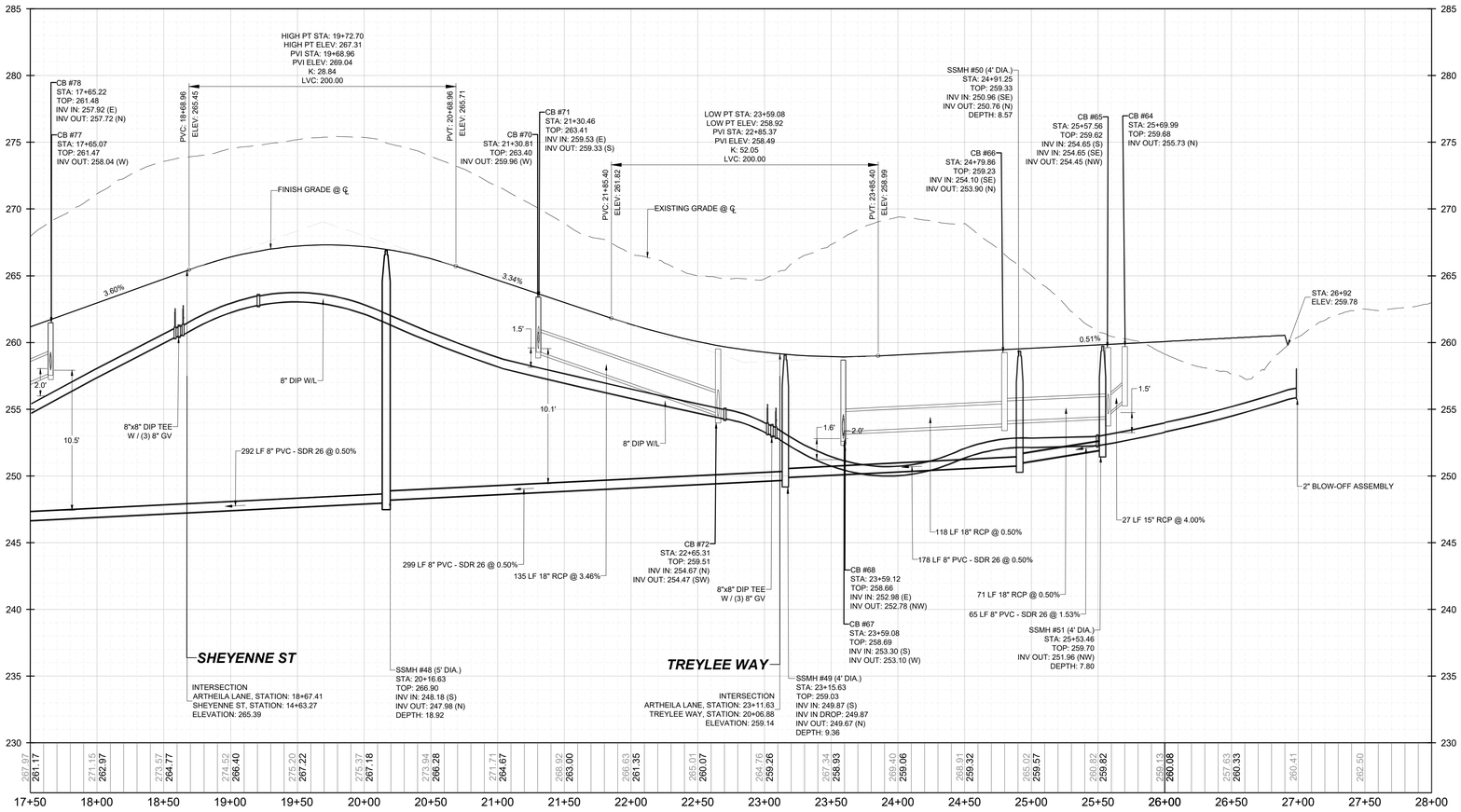



## PROPOSED ARTHEILA LANE - PLAN
**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




## PROPOSED ARTHEILA LANE - PROFILE
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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RALEIGH WATER REVIEW OFFICER _____

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TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
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| | | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

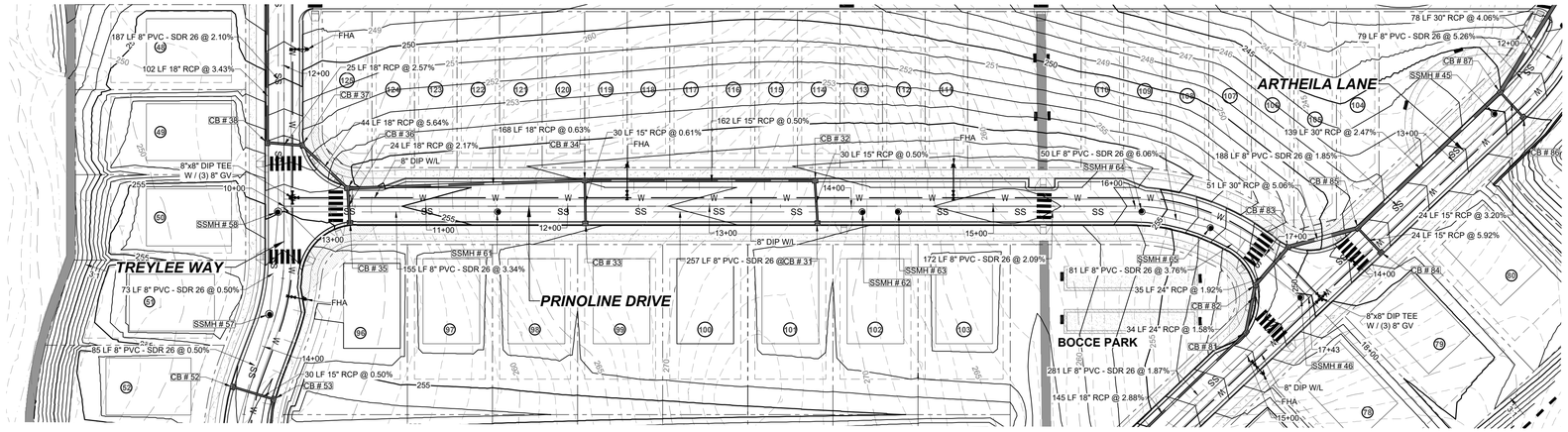
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED ARTHEILA LANE - PLAN & PROFILE**

DRAWING SHEET
**C-12.8**

**58 OF 112**

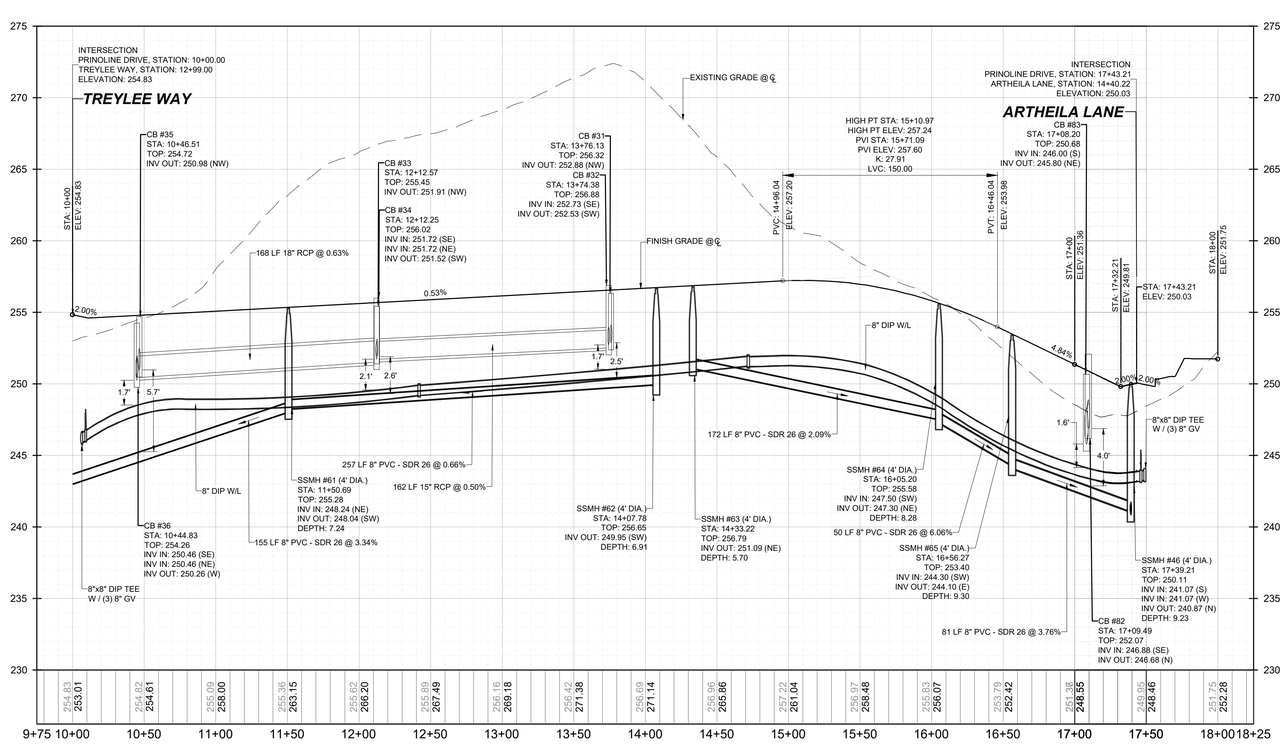



**PROPOSED PRINOLINE DRIVE - PLAN**
**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




**PROPOSED PRINOLINE DRIVE - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

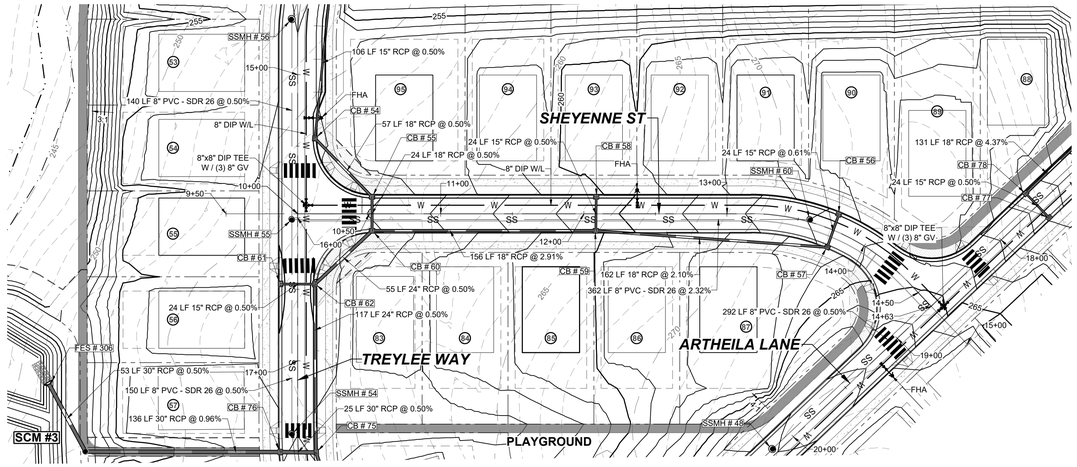
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM
305 CHURCH AT NORTH HILLS STREET, SUITE 1110

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED PRINOLINE DRIVE - PLAN & PROFILE**

DRAWING SHEET
**C-12.9**

**59 OF 112**



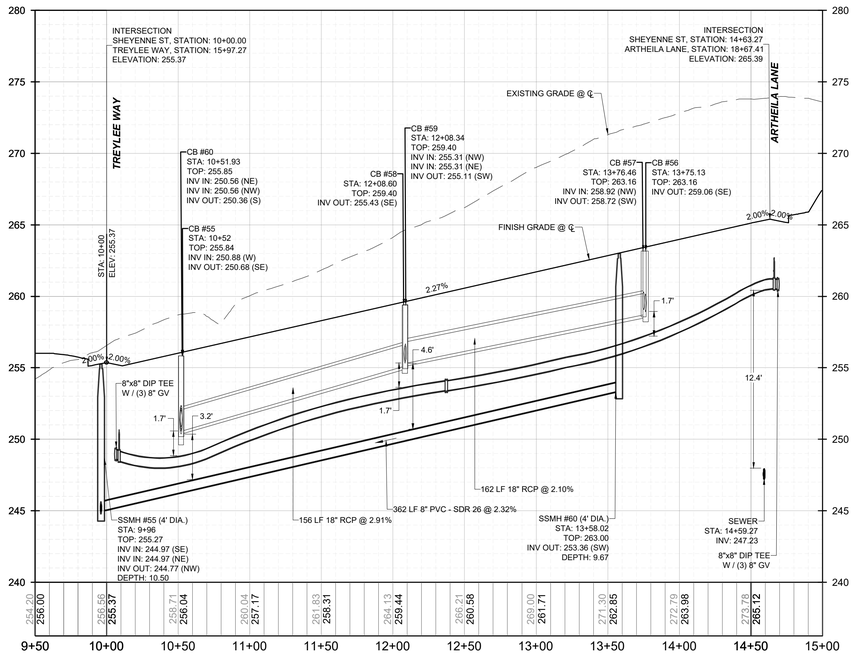

**PROPOSED SHEYENNE ST - PLAN**
**HORIZONTAL: 1" = 50'**



GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




**PROPOSED SHEYENNE ST - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

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BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

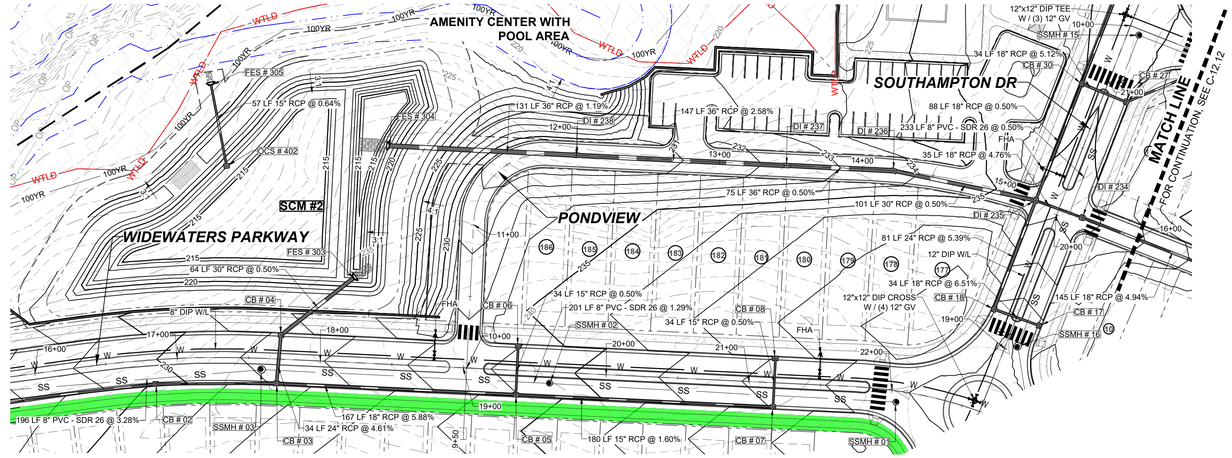
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED SHEYENNE ST - PLAN & PROFILE**

DRAWING SHEET
**C-12.10**

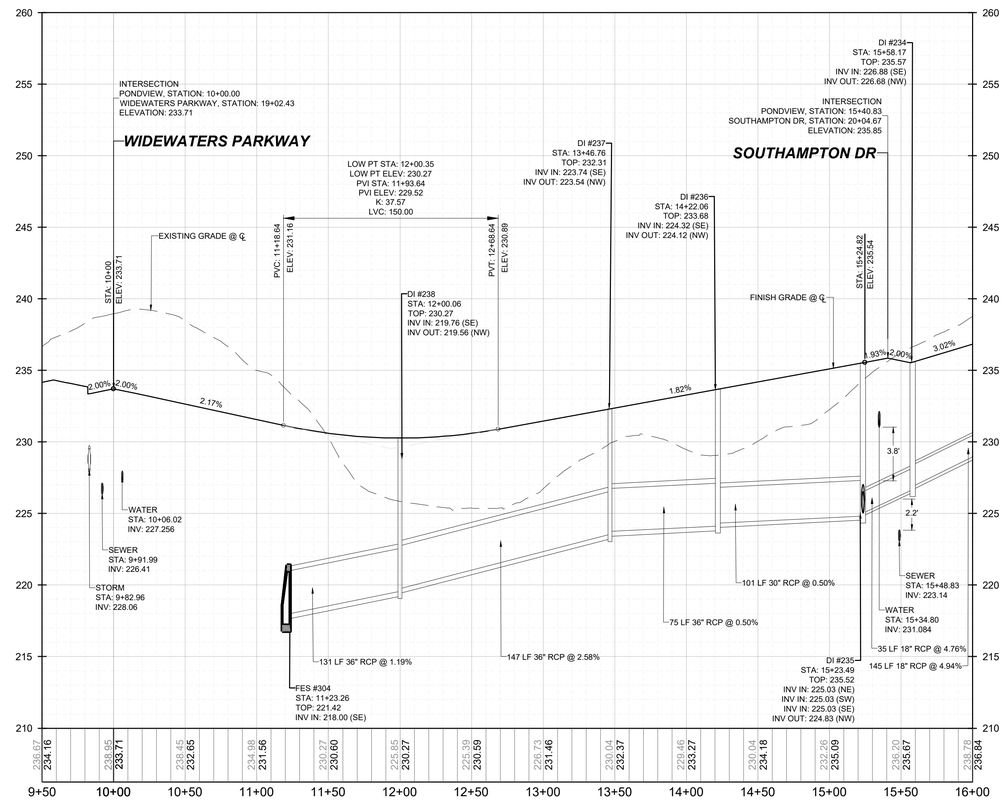



**PROPOSED PONDVIEW - PLAN**
**HORIZONTAL: 1" = 50'**

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




**PROPOSED PONDVIEW - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
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NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT
SEAL

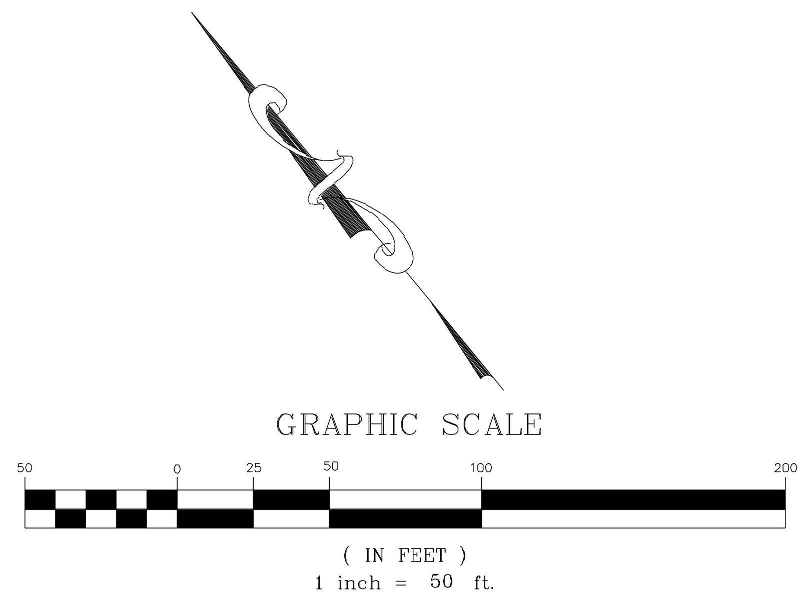
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

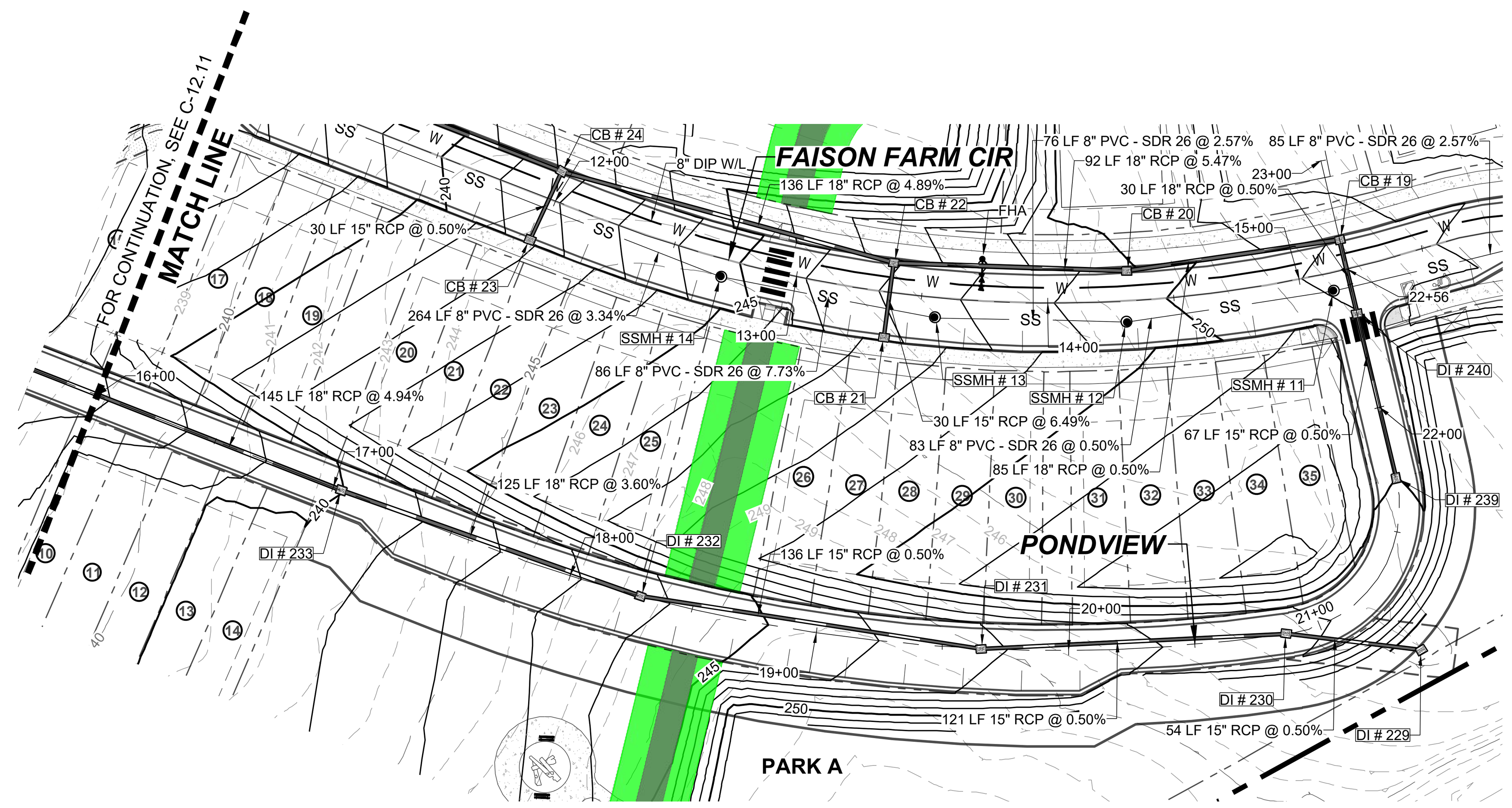
| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED PONDVIEW - PLAN & PROFILE**

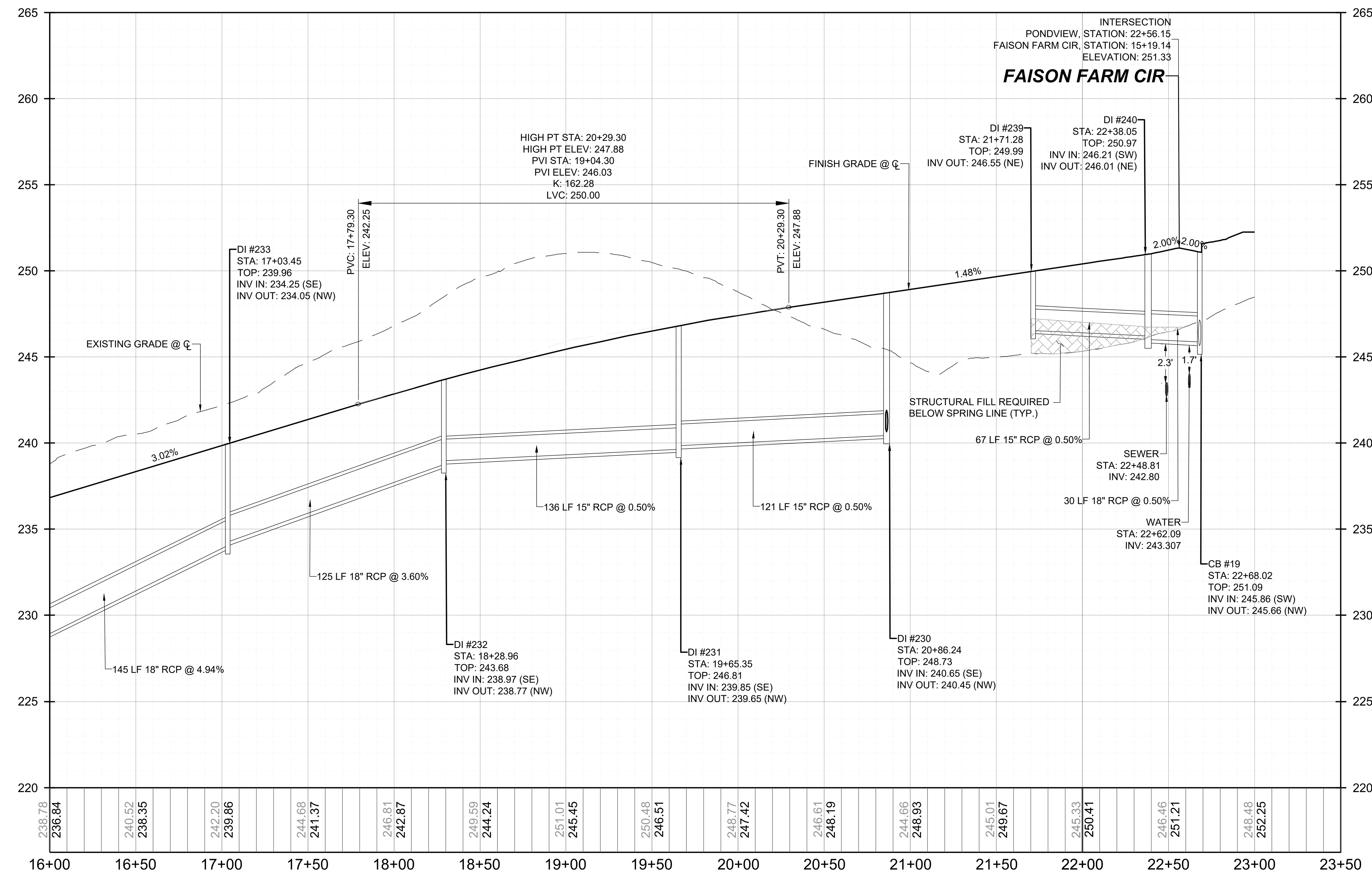
DRAWING SHEET
**C-12.11**

**61 OF 112**




**PROPOSED PONDVIEW - PLAN**
HORIZONTAL: 1" = 50'




**PROPOSED PONDVIEW - PROFILE**
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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RALEIGH WATER REVIEW OFFICER ____________________

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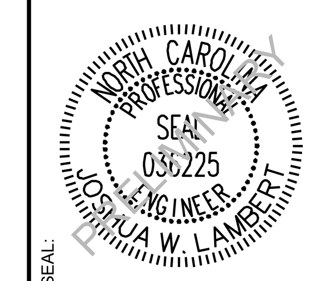
BY: ____________________ DATE: ____________________
TOWN ENGINEER

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BY: ____________________ DATE: ____________________
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

SEAL:




STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED PONDVIEW - PLAN & PROFILE**

DRAWING
SHEET
**C-12.12**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

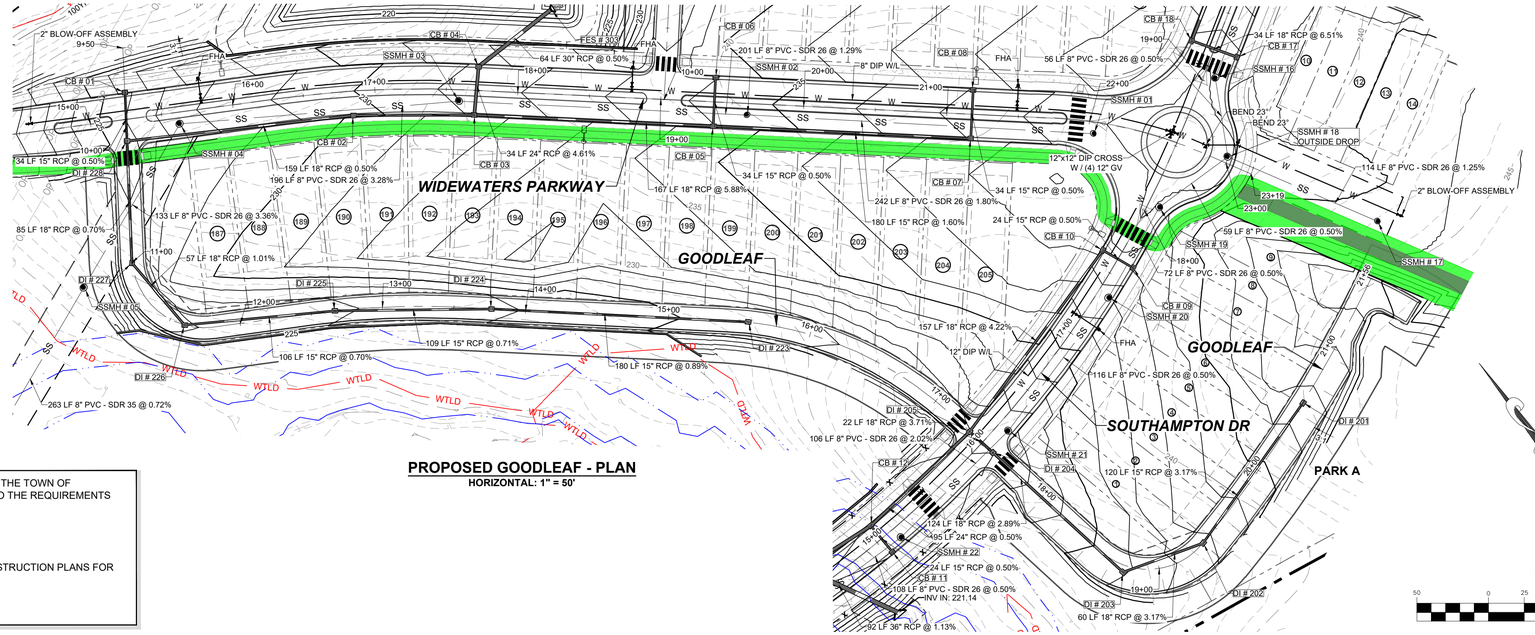
RALEIGH WATER REVIEW OFFICER _____

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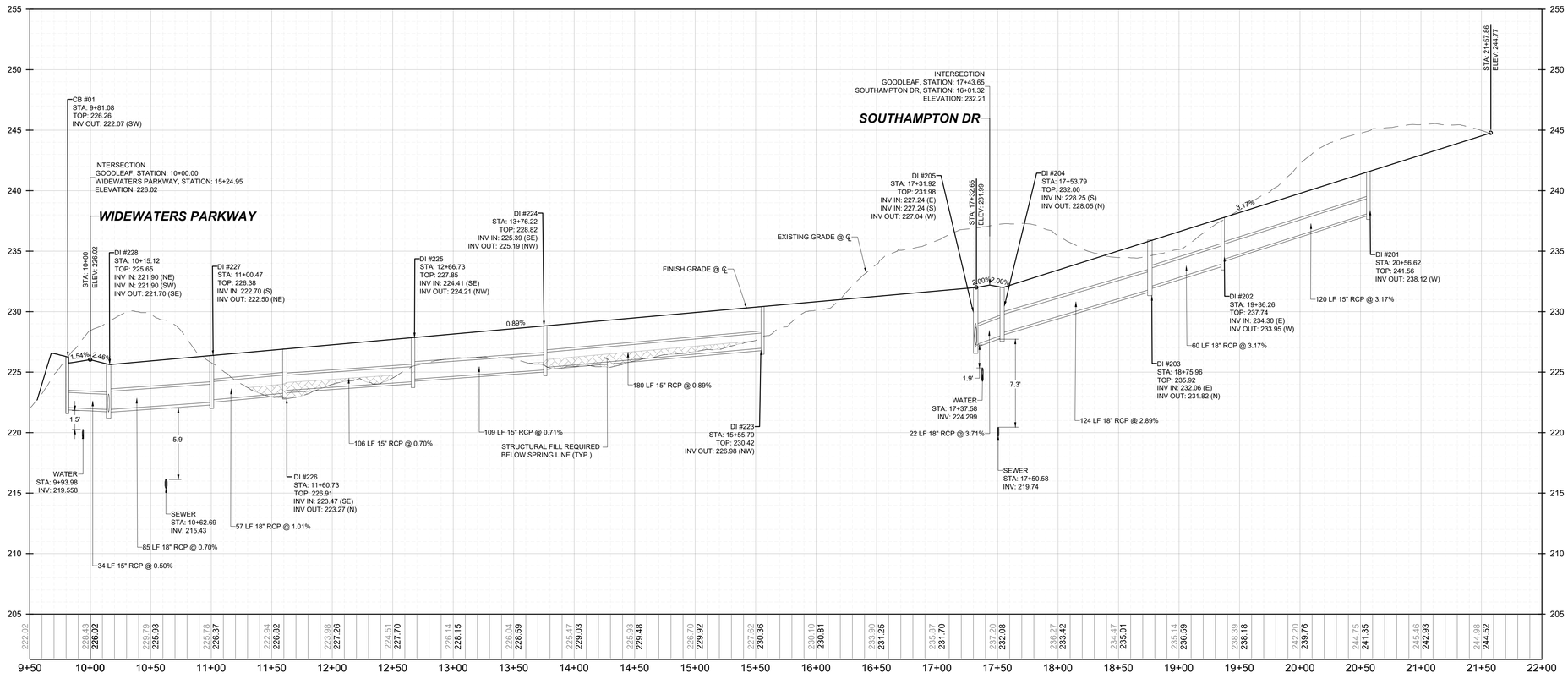
BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR




**PROPOSED GOODLEAF - PLAN**
**HORIZONTAL: 1" = 50'**




**PROPOSED GOODLEAF - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036225 JOSHUA W. LAMBERT

STRONG ROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED GOODLEAF - PLAN & PROFILE**

DRAWING SHEET
**C-12.13**

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LAND USE ADMINISTRATOR

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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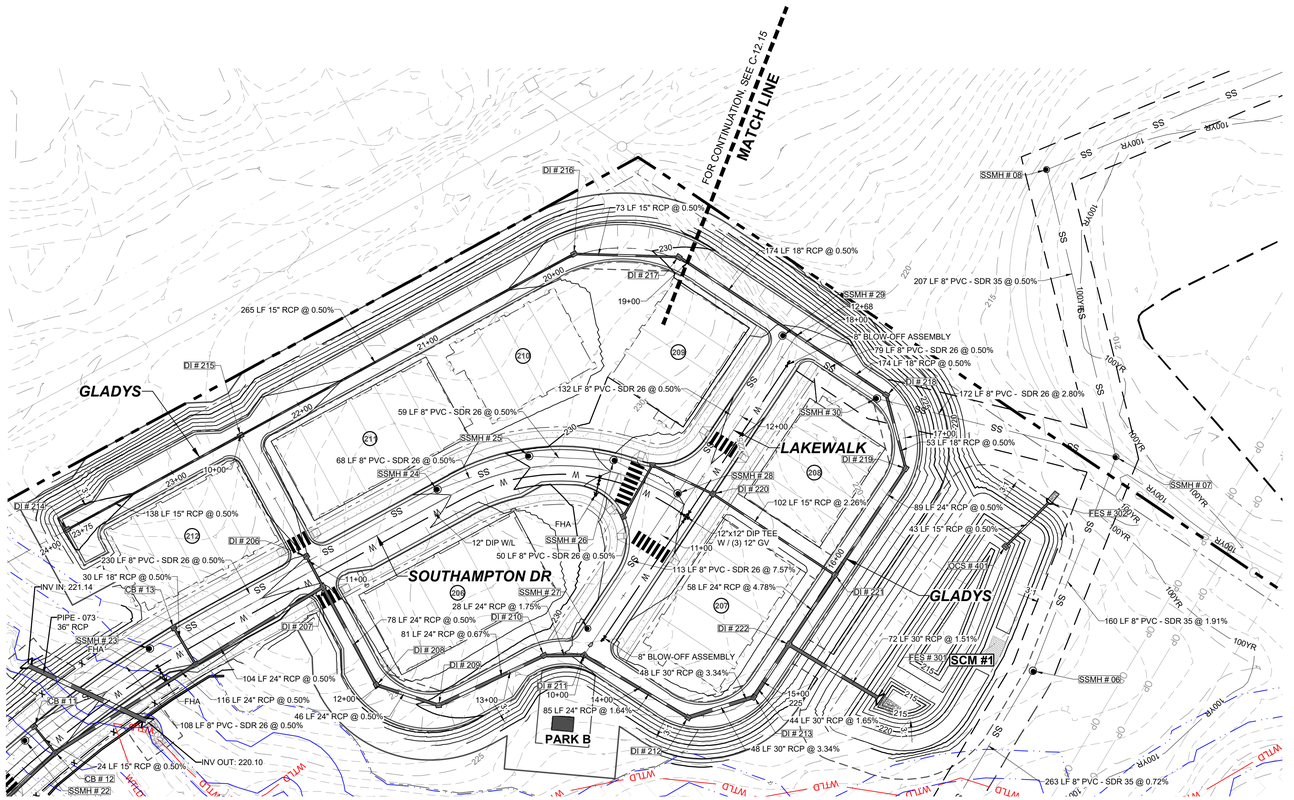
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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____



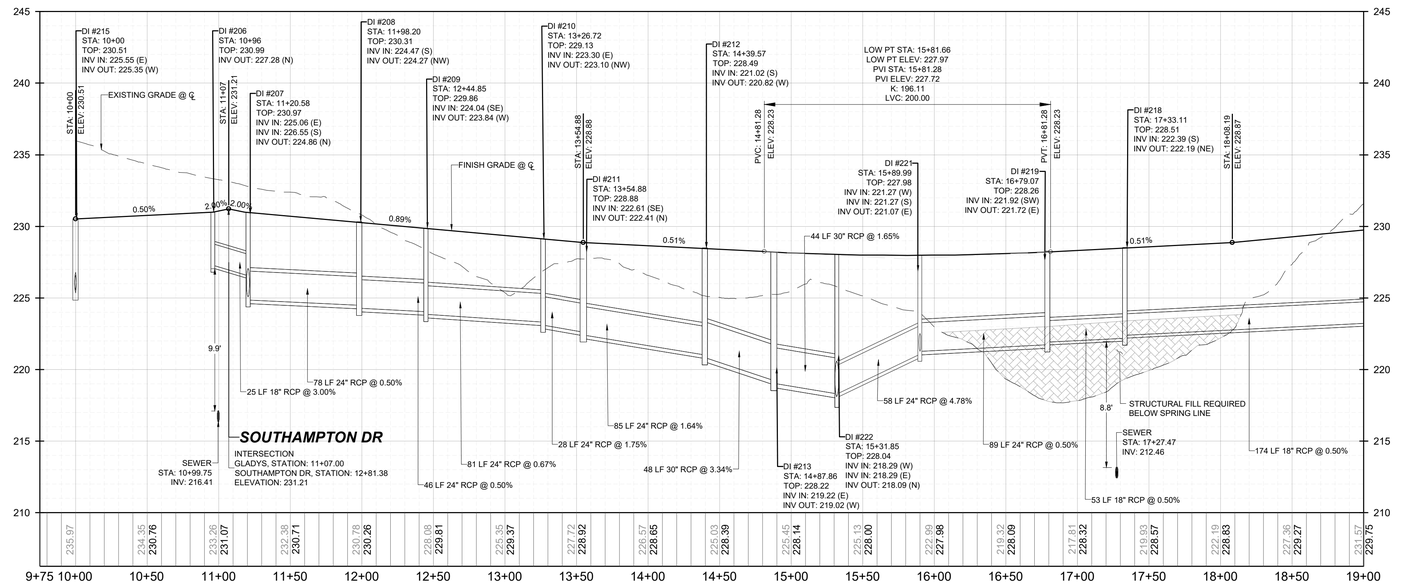

**PROPOSED GLADYS - PLAN**
**HORIZONTAL: 1" = 50'**



GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




**PROPOSED GLADYS - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NOAH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| STRONG ROCK PROJECT | | | |
|---|---|---|---|
| | NOT FOR CONSTRUCTION | | |
| | | SCALE | AS SHOWN |
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED GLADYS - PLAN & PROFILE**

DRAWING SHEET
**C-12.14**

**64 OF 112**

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
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LAND USE ADMINISTRATOR

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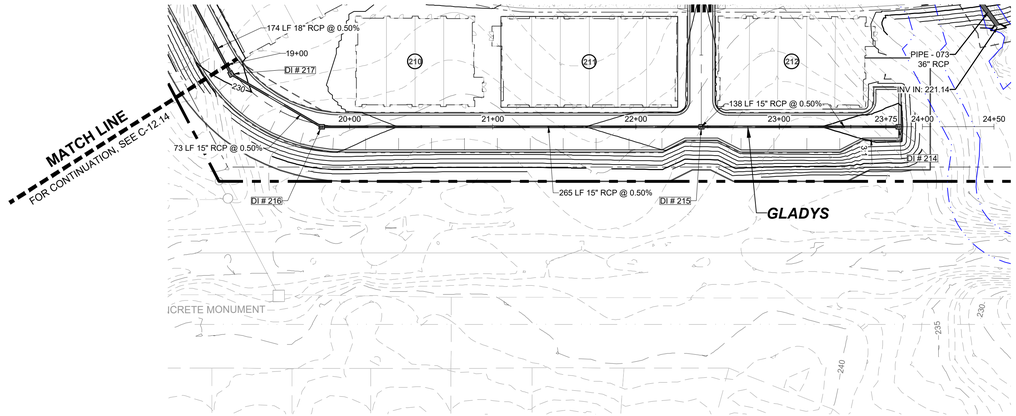
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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____



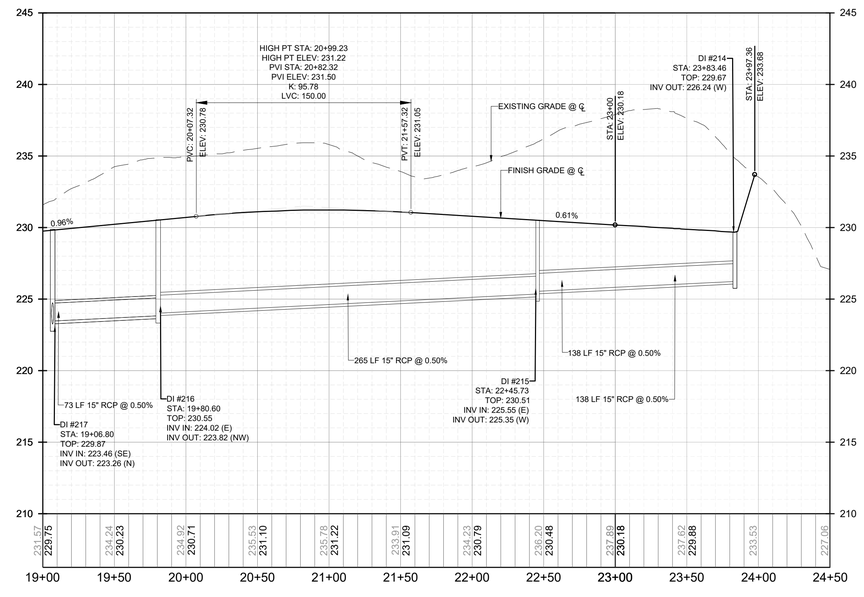

**PROPOSED GLADYS - PLAN**
**HORIZONTAL: 1" = 50'**



GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




**PROPOSED GLADYS - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

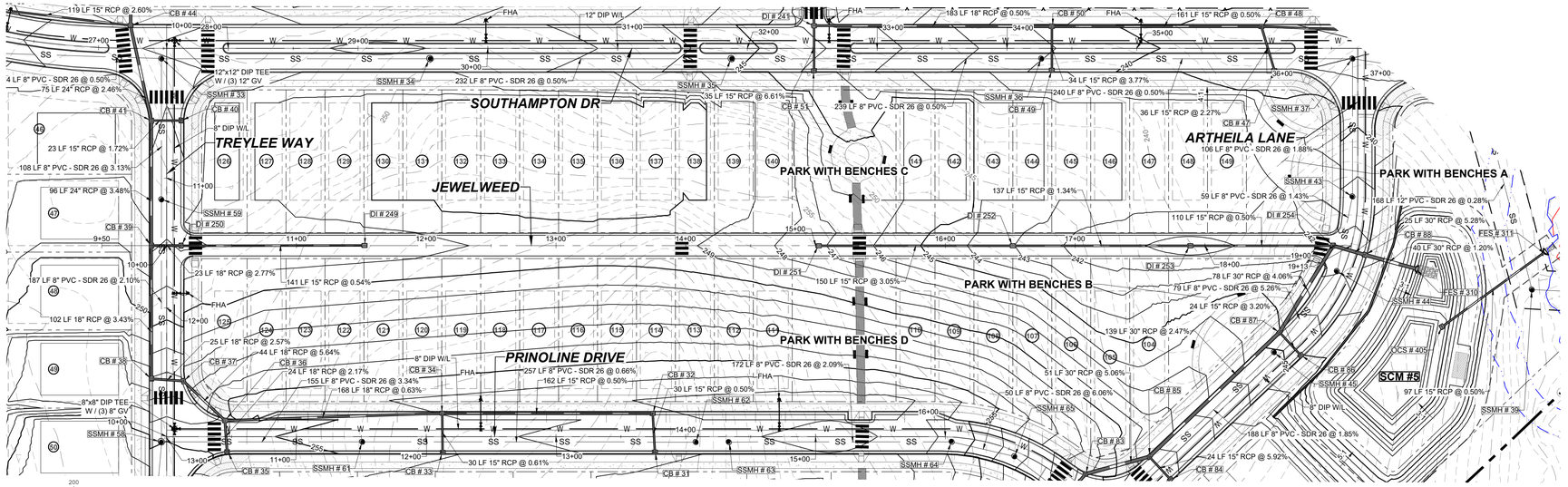
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED GLADYS - PLAN & PROFILE**

DRAWING / SHEET
**C-12.15**

**65 OF 112**

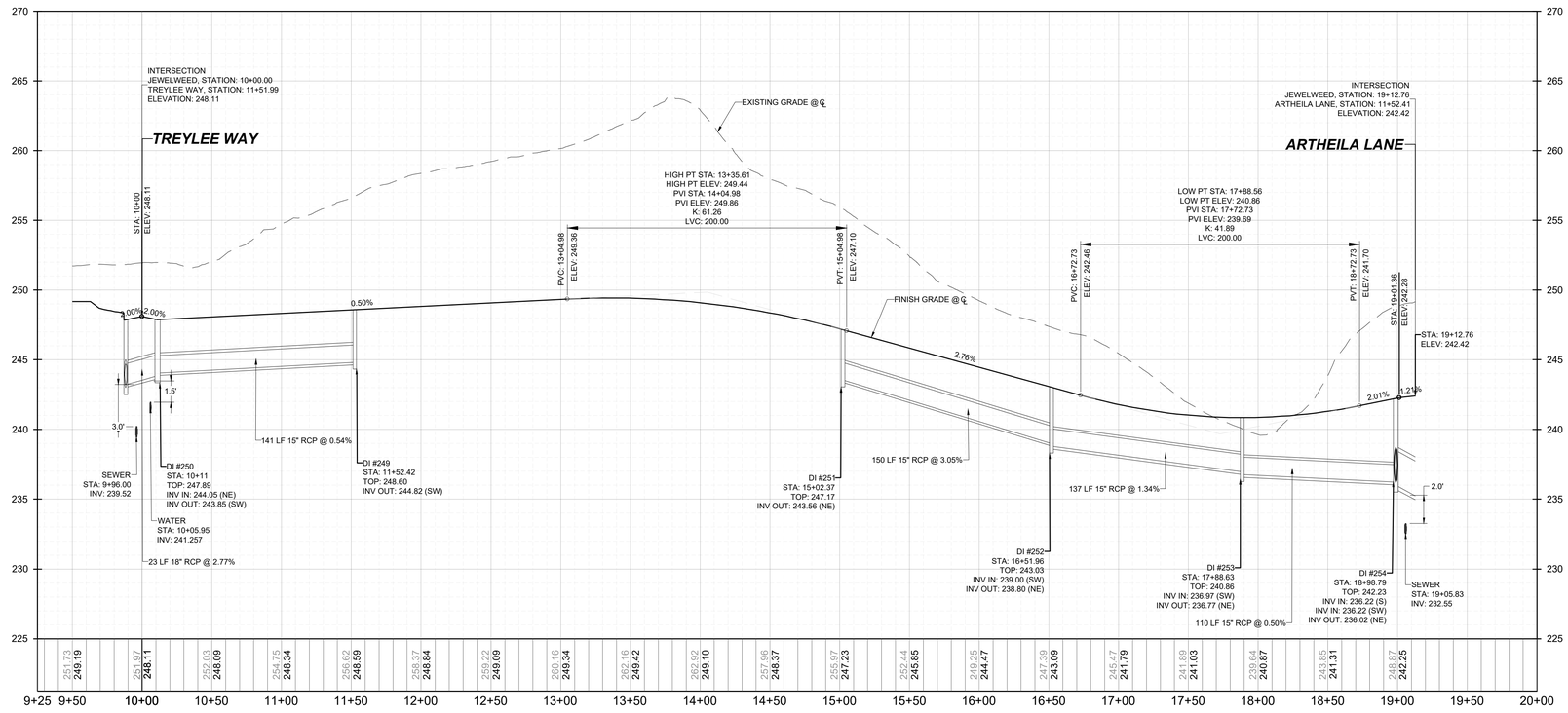



GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.

**PROPOSED JEWELWEED - PLAN**
**HORIZONTAL: 1" = 50'**




**PROPOSED JEWELWEED - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK. CITY OF RALEIGH PUBLIC. CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED JEWELWEED - PLAN & PROFILE**

DRAWING SHEET
**C-12.16**

PROGRESS PLOT DATE: 1/16/2024

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK. CITY OF RALEIGH PUBLIC. CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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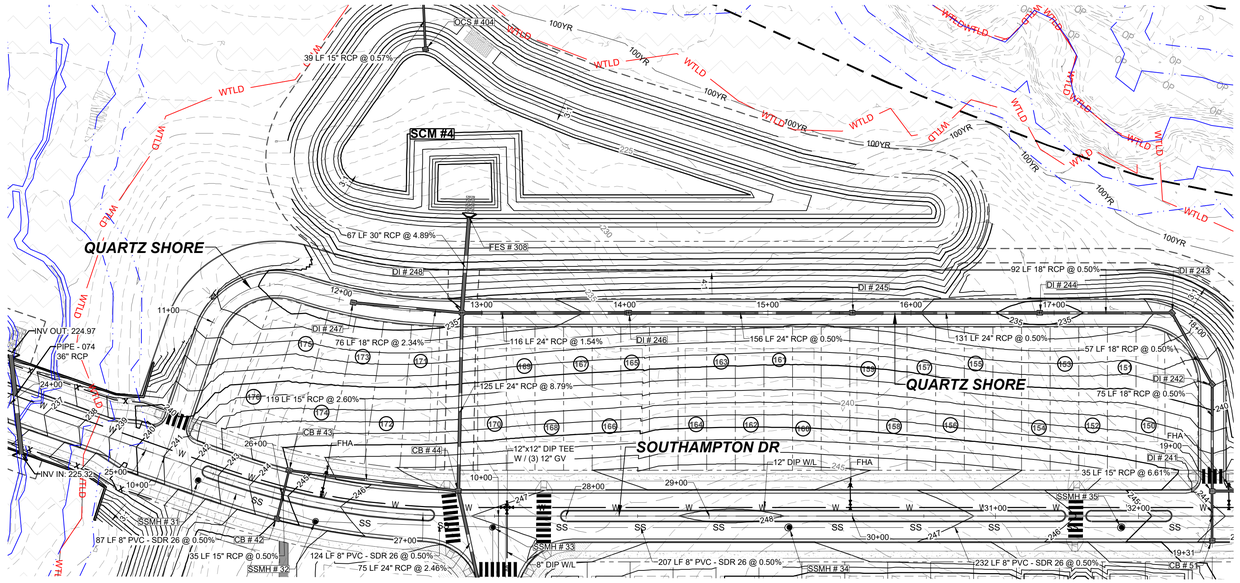
CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

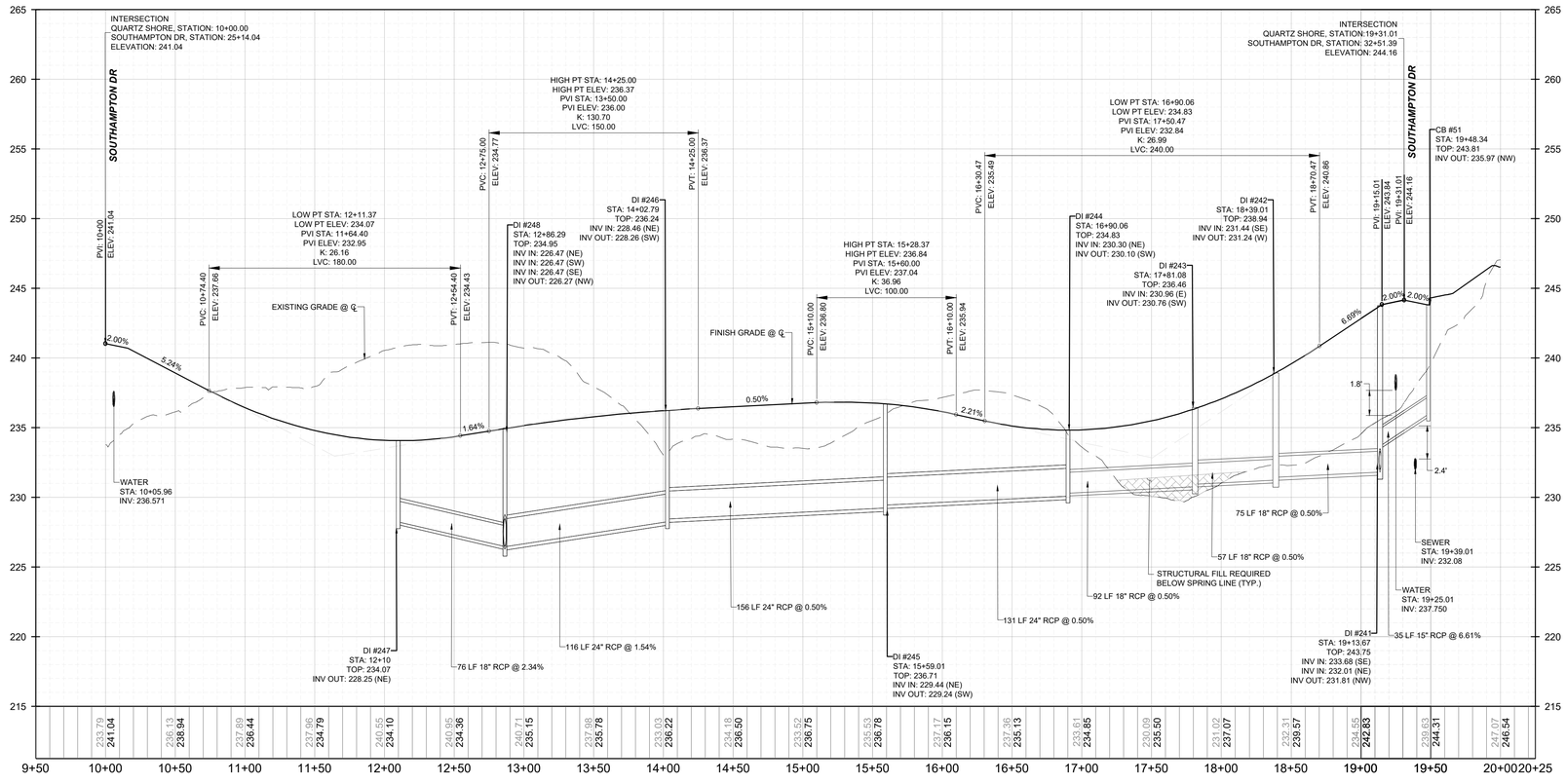
GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




**PROPOSED QUARTZ SHORE - PLAN**
**HORIZONTAL: 1" = 50'**




**PROPOSED QUARTZ SHORE - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

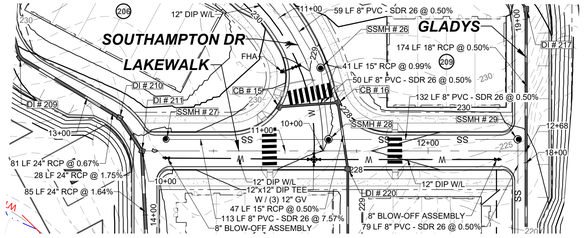

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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| STRONG ROCK PROJECT | | | |
|---|---|---|---|
| | NOT FOR CONSTRUCTION | | |
| | SCALE | AS SHOWN | JWL |
| | DESIGNED BY | JWL | |
| | DRAWN BY | SRG | |
| | CHECKED BY | JWL | |

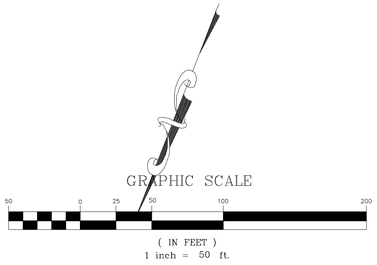
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED QUARTZ SHORE - PLAN & PROFILE**

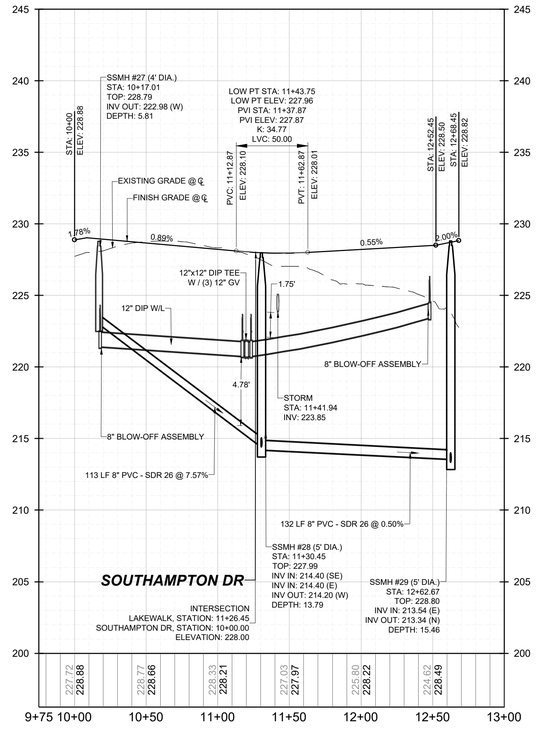
DRAWING SHEET
**C-12.17**

**67 OF 112**




**PROPOSED LAKEWALK - PLAN**
**HORIZONTAL: 1" = 50'**




**PROPOSED LAKEWALK - PROFILE**
**VERTICAL: 1" = 5'**
**HORIZONTAL: 1" = 50'**

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT
SEAL

STRONGROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PROPOSED LAKEWALK - PLAN & PROFILE**

DRAWING SHEET
**C-12.18**

PROGRESS PLOT DATE: 1/16/2024

## SIGN LEGEND:

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

| SIGN | MUTCD STD. | SIZE |
|---|---|---|
| STOP | R1-1 3 | 30"X30" |
| 25 MPH | R2-1 | 24"X30" |
| ROAD CLOSED | R11-2 | 48"X30" |
| STREET NAME | D3-1 | VARIES"X12" |
| PEDESTRIAN CROSSING | W11-2 | 30" |
| PEDESTRIAN CROSSING | W16-7P | 30" |
| YIELD SIGN | R1-2 | 30"x30"x30" |

2. ALL SIGNS SHALL BE MOUNTED WITH 8' MIN FOR STREET SIGNS. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT SIGN DEEP X 12-IN DIA. CONCRETE FOOTING. MUTCD STD. SIZE KNIGHTDALE AND/OR NCDOT PRIOR TO SIGN INSTALLATION.

3. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY THE TOWN OF KNIGHTDALE AND/OR NCDOT PRIOR TO SIGN INSTALLATION.

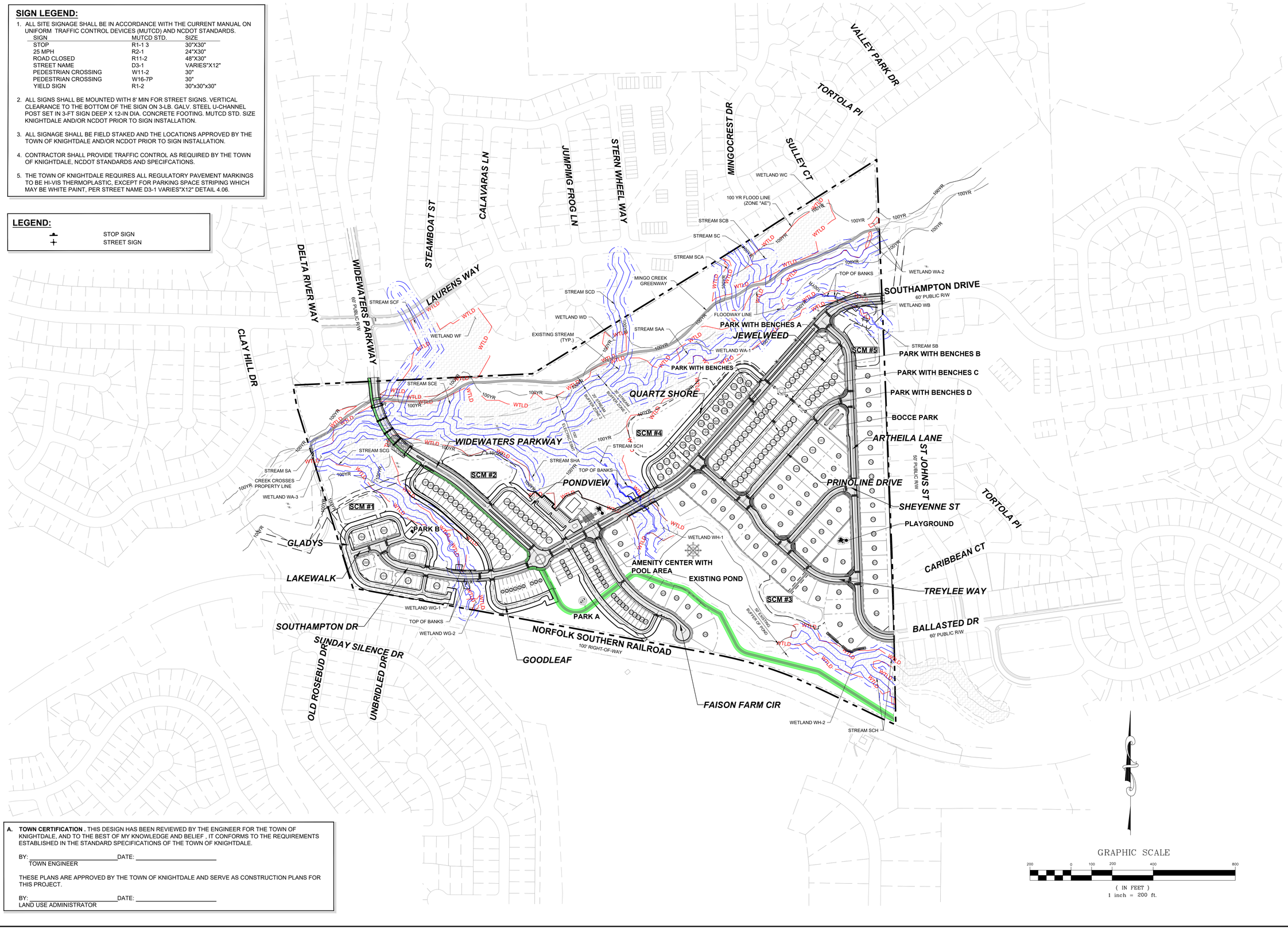
4. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY THE TOWN OF KNIGHTDALE, NCDOT STANDARDS AND SPECIFCATIONS.

5. THE TOWN OF KNIGHTDALE REQUIRES ALL REGULATORY PAVEMENT MARKINGS TO BE HI-VIS THERMOPLASTIC, EXCEPT FOR PARKING SPACE STRIPING WHICH MAY BE WHITE PAINT, PER STREET NAME D3-1 VARIES"X12" DETAIL 4.06.

## LEGEND:

STOP SIGN

STREET SIGN




GRAPHIC SCALE

200 0 100 200 400 800

( IN FEET )
1 inch = 200 ft.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

# OVERALL SIGNS AND MARKINGS PLAN

DRAWING SHEET

**C-13.0**

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

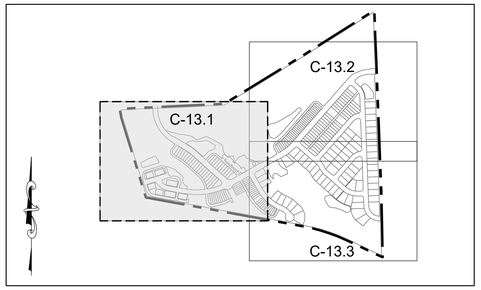
BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## SIGN LEGEND:

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

| SIGN | MUTCD STD. | SIZE |
|---|---|---|
| STOP | R1-1 3 | 30"X30" |
| 25 MPH | R2-1 | 24"X30" |
| ROAD CLOSED | R11-2 | 48"X30" |
| STREET NAME | D3-1 | VARIES"X12" |
| PEDESTRIAN CROSSING | W11-2 | 30" |
| PEDESTRIAN CROSSING | W16-7P | 30" |
| YIELD SIGN | R1-2 | 30"x30"x30" |

2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT SIGN DEEP X 12-IN DIA. CONCRETE FOOTING. MUTCD STD. SIZE KNIGHTDALE AND/OR NCDOT PRIOR TO SIGN INSTALLATION.
3. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY THE TOWN OF KNIGHTDALE AND/OR NCDOT PRIOR TO SIGN INSTALLATION.
4. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY THE TOWN OF KNIGHTDALE, NCDOT STANDARDS AND SPECIFCATIONS.
5. THE TOWN OF KNIGHTDALE REQUIRES ALL REGULATORY PAVEMENT MARKINGS TO BE HI-VIS THERMOPLASTIC, EXCEPT FOR PARKING SPACE STRIPING WHICH MAY BE WHITE PAINT, PER STREET NAME D3-1 VARIES"X12" DETAIL 4.06.




## SITE KEY PLAN LEGEND:

SEE SHEET C-13.0 FOR LEGEND

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

WIDEWATERS PARKWAY
60' PUBLIC R/W
SPEED LIMIT SIGN
STREAM SCE
CREEK CROSSES PROPERTY LINE
WETLAND WA-3
STREAM SCG
CROSSWALK (TYP.)
SPEED LIMIT SIGN
STOP SIGN
SCM #2
STREAM SHA
STREAM SCH
TOP OF BANKS
PONDVIEW
AMENITY CENTER WITH POOL AREA
PEDESTRIAN CROSSING SIGNS
STOP SIGN
SPEED LIMIT SIGN
CROSSWALK (TYP.)
STOP SIGN
STOP BAR
SPEED LIMIT SIGN
SCM #1
GLADYS
GOODLEAF
PARK B
FEATURE G
PEDESTRIAN CROSSING SIGNS
WETLAND WG-1
SPEED LIMIT SIGN
STOP SIGN
PEDESTRIAN CROSSING SIGNS
YIELD LINE
R1-2 YIELD SIGN
STREET SIGN
LAKEWALK
PEDESTRIAN CROSSING SIGNS
SPEED LIMIT SIGN
STOP SIGN
YIELD LINE
R1-2 YIELD SIGN
STOP SIGN
R1-2 YIELD SIGN
PEDESTRIAN CROSSING SIGNS
SPEED LIMIT SIGN
GLADYS
SOUTHAMPTON DR
TOP OF BANKS
WETLAND WG-2
NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY
PARK A
PARK WITH FIRE PIT
PONDVIEW
FAISON FARM CIR
THE TOWN OF KNIGHTDALE
D.B. 6389, PG. 492
B.M. 1994, PG. 1087, TRACT E
MATCH LINE
FOR CONTINUATION, SEE C-13.2

STRONGROCK
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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL SIGNS AND MARKINGS PLAN I**

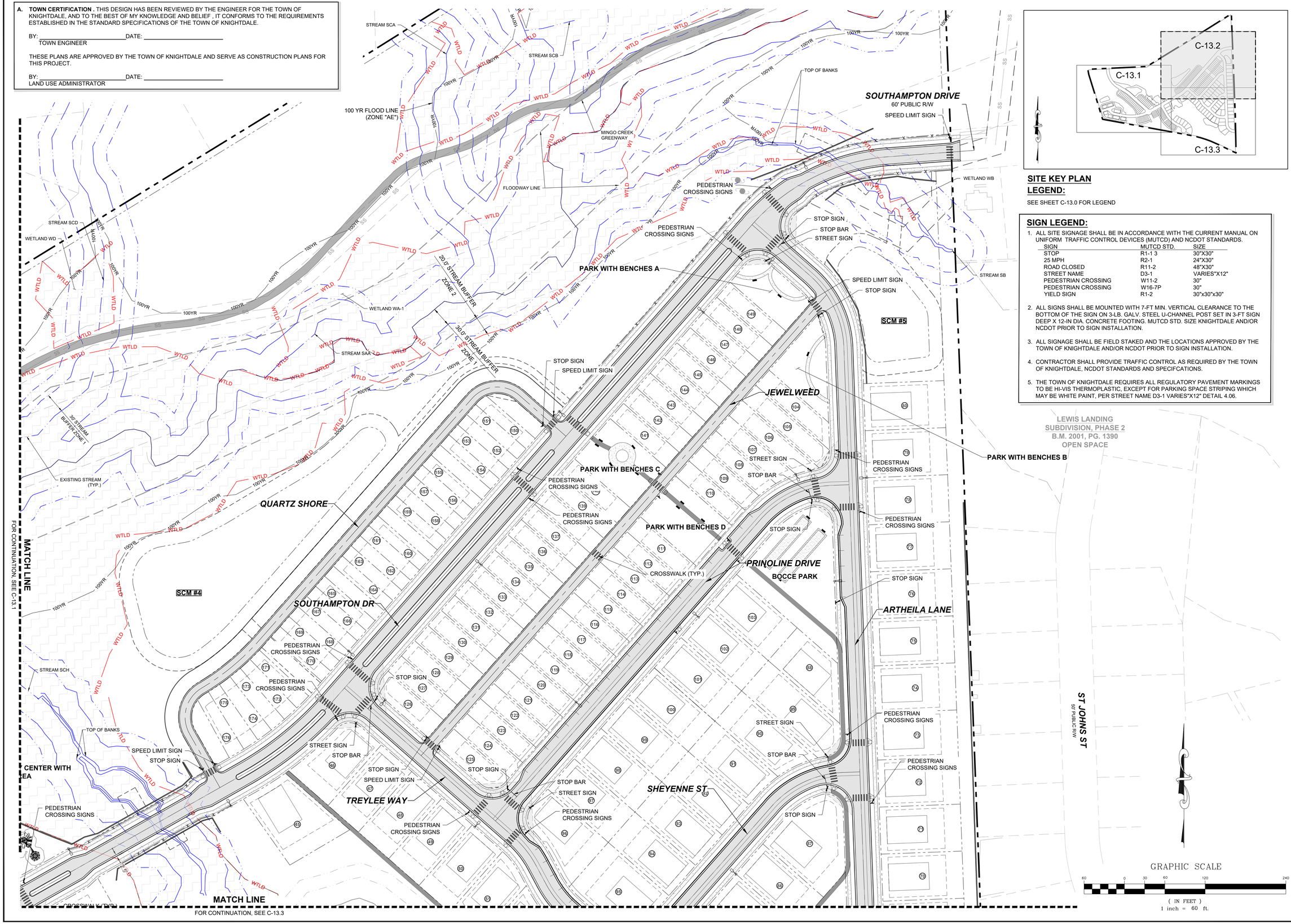
DRAWING SHEET
**C-13.1**

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR







## SITE KEY PLAN LEGEND:

SEE SHEET C-13.0 FOR LEGEND

## SIGN LEGEND:

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

| SIGN | MUTCD STD. | SIZE |
|---|---|---|
| STOP | R1-1 3 | 30"X30" |
| 25 MPH | R2-1 | 24"X30" |
| ROAD CLOSED | R11-2 | 48"X30" |
| STREET NAME | D3-1 | VARIES"X12" |
| PEDESTRIAN CROSSING | W11-2 | 30" |
| PEDESTRIAN CROSSING | W16-7P | 30" |
| YIELD SIGN | R1-2 | 30"x30"x30" |

2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT SIGN DEEP X 12-IN DIA. CONCRETE FOOTING. MUTCD STD. SIZE KNIGHTDALE AND/OR NCDOT PRIOR TO SIGN INSTALLATION.
3. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY THE TOWN OF KNIGHTDALE AND/OR NCDOT PRIOR TO SIGN INSTALLATION.
4. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY THE TOWN OF KNIGHTDALE, NCDOT STANDARDS AND SPECIFCATIONS.
5. THE TOWN OF KNIGHTDALE REQUIRES ALL REGULATORY PAVEMENT MARKINGS TO BE HI-VIS THERMOPLASTIC, EXCEPT FOR PARKING SPACE STRIPING WHICH MAY BE WHITE PAINT, PER STREET NAME D3-1 VARIES"X12" DETAIL 4.06.

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

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| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL SIGNS AND MARKINGS PLAN II**

DRAWING SHEET
**C-13.2**

PROGRESS PLOT DATE: 1/16/2024

FOR CONTINUATION, SEE C-13.2

MATCH LINE

FEATURE HA

SOUTHAMPTON DR

PRINOLINE DRIVE

SHEYENNE ST

ARTHEILA LANE

TREYLEE WAY

FAISON FARM CIR

PONDVIEW

PARK A

BALLASTED DR
60' PUBLIC R/W

NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY

EXISTING POND

SCM #3

PLAYGROUND

WETLAND WH-1

WETLAND WH-2

STREAM SCH

30' EXISTING BUFFER OF POND

PEDESTRIAN CROSSING SIGNS

CROSSWALK (TYP.)

STOP SIGN

STOP BAR

STREET SIGN

SPEED LIMIT SIGN

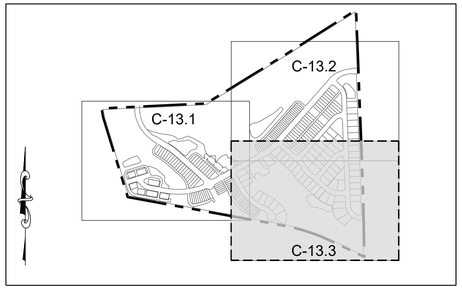
TYPE 3 BARRICADE (TYP.)

WTLD

N/F
BROOKEFIELD STATION
DEVELOPMENT, LLC
B.M. 1997, PG. 1014, TRACT 2B
D.B. 11783, PG. 1

FOR CONTINUATION, SEE C-13.1

MATCH LINE




## SITE KEY PLAN

## LEGEND:

SEE SHEET C-13.0 FOR LEGEND

## SIGN LEGEND:

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

| SIGN | MUTCD STD. | SIZE |
|---|---|---|
| STOP | R1-1 3 | 30"X30" |
| 25 MPH | R2-1 | 24"X30" |
| ROAD CLOSED | R11-2 | 48"X30" |
| STREET NAME | D3-1 | VARIES"X12" |
| PEDESTRIAN CROSSING | W11-2 | 30" |
| PEDESTRIAN CROSSING | W16-7P | 30" |
| YIELD SIGN | R1-2 | 30"x30"x30" |

2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT SIGN DEEP X 12-IN DIA. CONCRETE FOOTING. MUTCD STD. SIZE KNIGHTDALE AND/OR NCDOT PRIOR TO SIGN INSTALLATION.
3. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY THE TOWN OF KNIGHTDALE AND/OR NCDOT PRIOR TO SIGN INSTALLATION.
4. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY THE TOWN OF KNIGHTDALE, NCDOT STANDARDS AND SPECIFCATIONS.
5. THE TOWN OF KNIGHTDALE REQUIRES ALL REGULATORY PAVEMENT MARKINGS TO BE HI-VIS THERMOPLASTIC, EXCEPT FOR PARKING SPACE STRIPING WHICH MAY BE WHITE PAINT, PER STREET NAME D3-1 VARIES"X12" DETAIL 4.06.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL
SEAL 036225 ENGINEER
JOSHUA W. LAMBERT


STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


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| DESIGNED BY | JWL |
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| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARTIAL SIGNS AND MARKINGS PLAN III**

DRAWING SHEET
**C-13.3**

PROGRESS PLOT DATE: 1/16/2024




**LEGEND:**

- EXISTING PROPERTY LINE
- STREET LIGHT
- SIGN
- WHEELCHAIR RAMP (WCR)
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- STANDARD CURB & GUTTER
- DRAINAGE EASEMENT
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- WETLAND (WTLD)

GRAPHIC SCALE

200 0 100 200 400 800

( IN FEET )
1 inch = 200 ft.

**A. TOWN CERTIFICATION** . THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL


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KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

# OVERALL AMENITIES PLAN

DRAWING SHEET

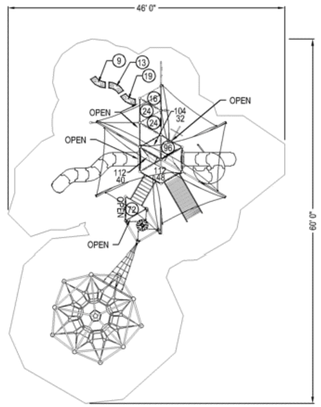
**C-14.0**

**73 OF 112**

PROGRESS PLOT DATE: 1/16/2024

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P.O. BOX 549, 660 VAN DYNE RD.
FOND DU LAC, WI 54936-0549
TOLL FREE: 1-800-356-2070
PHONE: (920) 921-9220
FAX: (920) 921-9566
www.bciburke.com

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TOP VIEW

SCALE IN FEET
0 5 10

**SPECIFICATIONS:**
**TOTAL AREA:** 1653 SQ. FT.
**PERIMETER:** 198 FT.

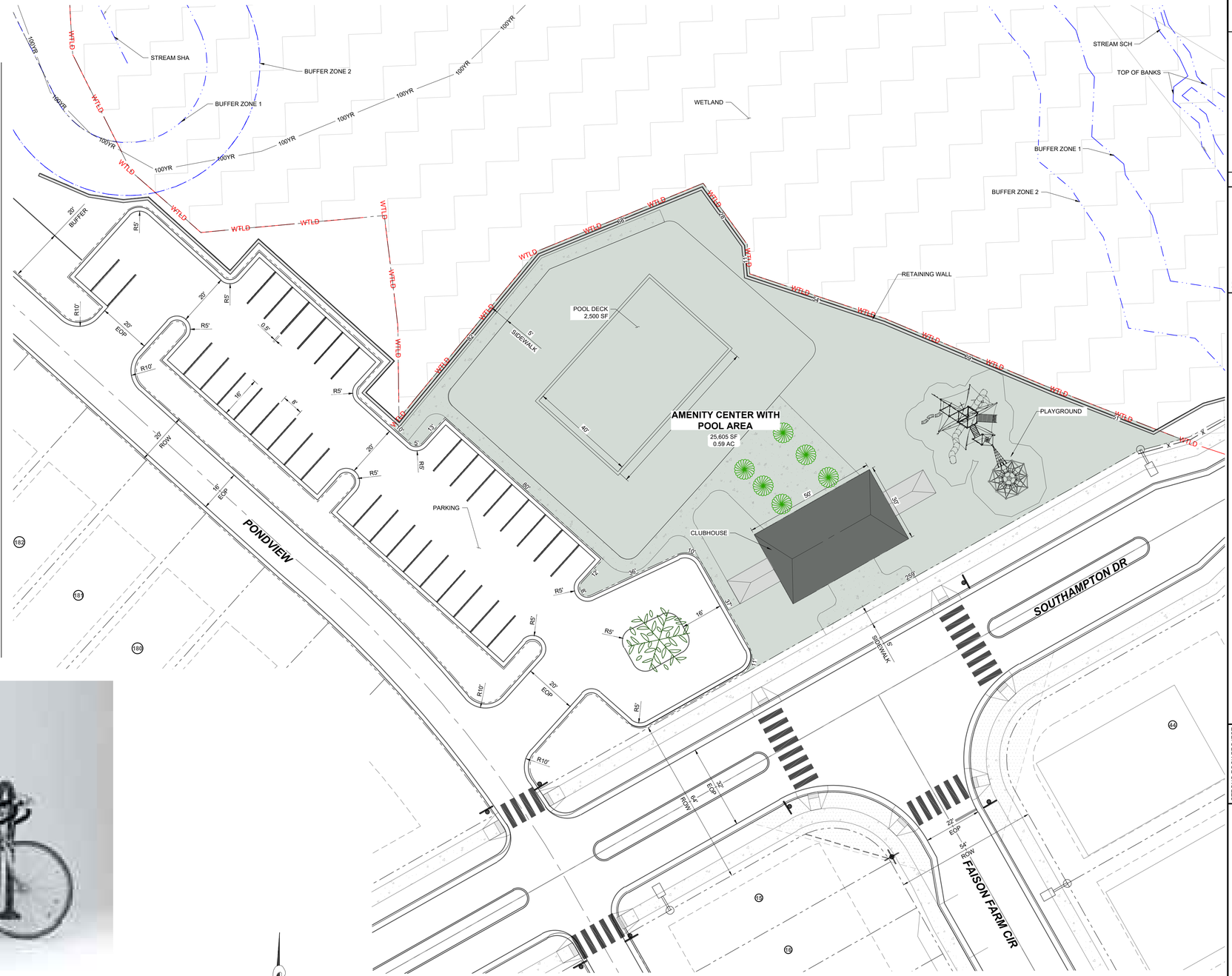
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 208-1112

SCHOOL AGED PLAYGROUNDS
NU-2891

208-1112 REVISION DATE 06/10/2020

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GRAPHIC SCALE
20 0 10 20 40 80
( IN FEET )
1 inch = 20 ft.

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BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
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| STRONG ROCK PROJECT | |
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| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**AMENITY CENTER PLAN**

DRAWING SHEET
**C-14.1**

**74 OF 112**



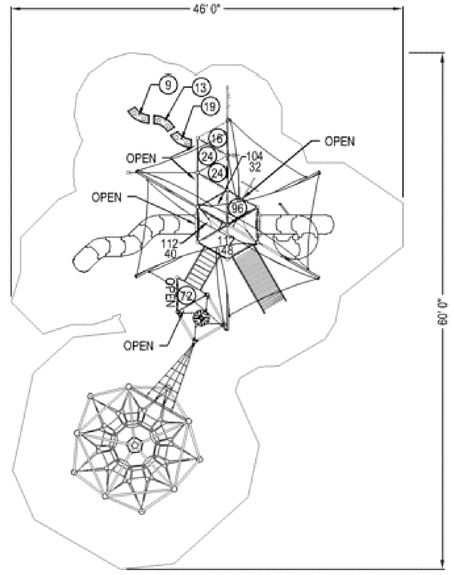

GRAPHIC SCALE

10 0 05 10 20 40

( IN FEET )
1 inch = 10 ft.

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FAX: (920) 921-9566
www.bciburke.com

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TOP VIEW

**SPECIFICATIONS:**
**TOTAL AREA:** 1653 SQ. FT.
**PERIMETER:** 198 FT.

SCALE IN FEET
0 5 10

NOTES:
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SCHOOL AGED PLAYGROUNDS
NU-2891

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BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036225 JOSHUA W. LAMBERT
SEAL

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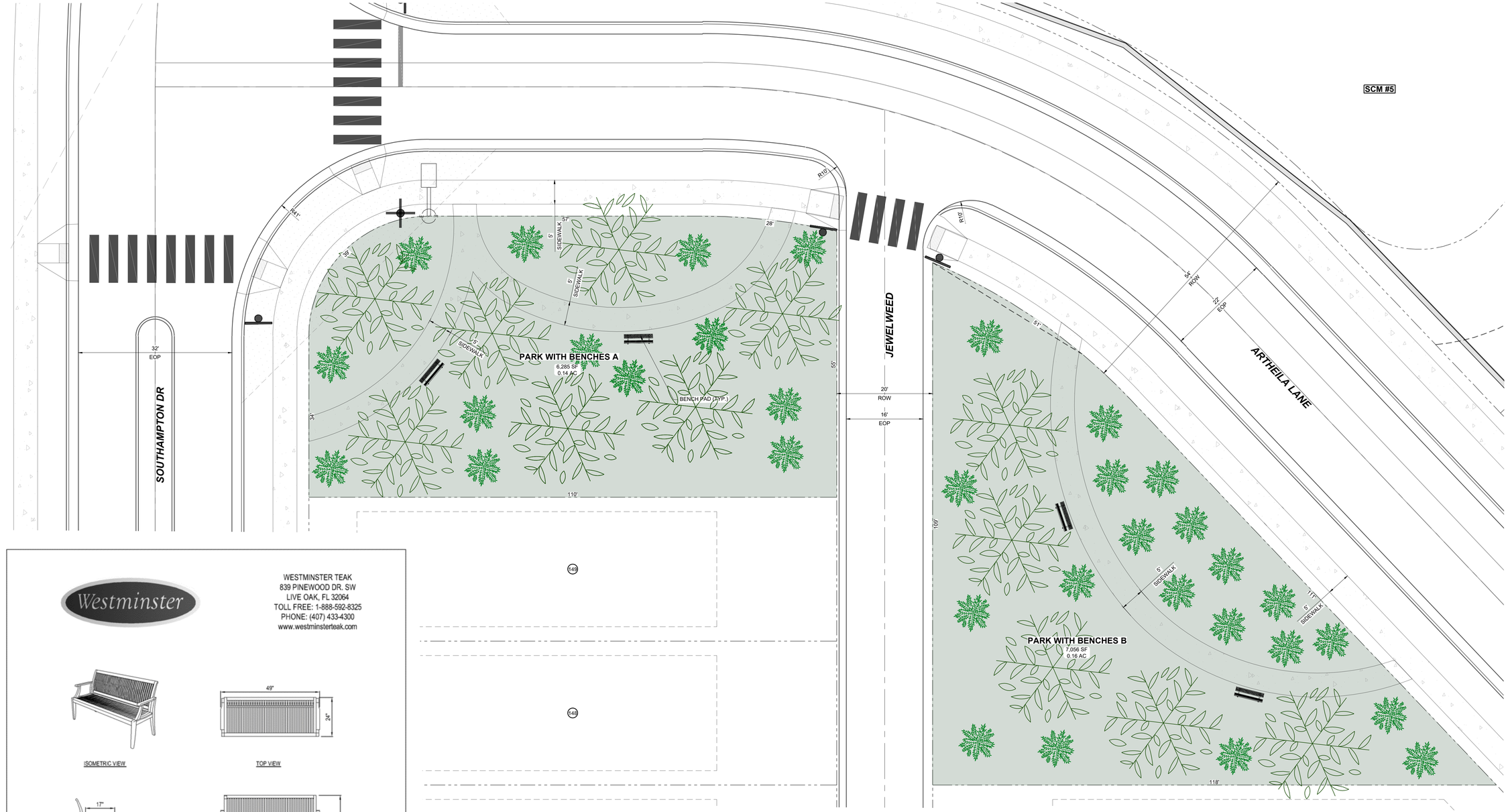
| STRONG ROCK PROJECT | | | |
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| NOT FOR CONSTRUCTION | SCALE | AS SHOWN | DESIGNED BY JWL |
| | | | DRAWN BY SRG |
| | | | CHECKED BY JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PLAYGROUND PLAN**

DRAWING SHEET
**C-14.2**

**75 OF 112**

PROGRESS PLOT DATE: 1/16/2024







GRAPHIC SCALE

10 0 05 10 20 40

( IN FEET )

1 inch = 10 ft.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
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SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


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| CHECKED BY | JWL | | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**PARKING WITH BENCHES PLAN**

DRAWING SHEET

**C-14.3**

**76 OF 112**




**BOCCE PARK PLAN**
**HORIZONTAL: 1" = 10'**





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BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE

10 0 05 10 20 40

( IN FEET )
1 inch = 10 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

STRONGROCK ENGINEERING GROUP

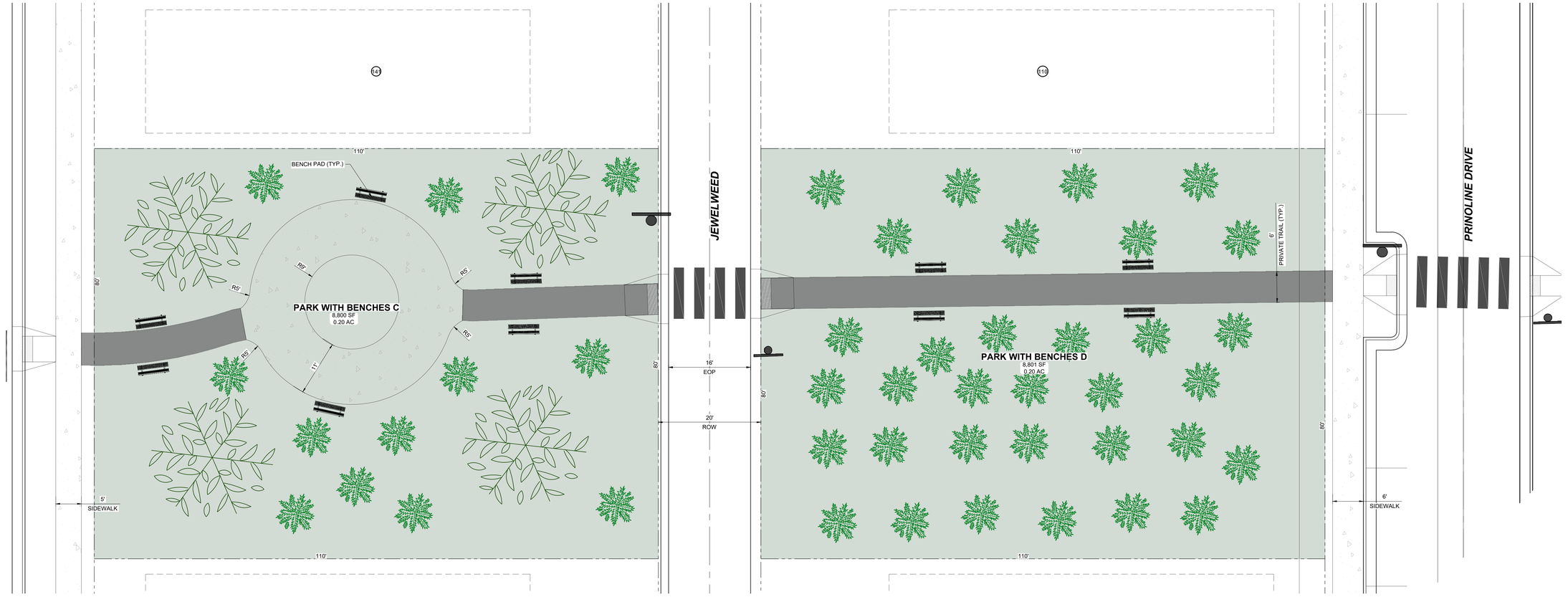
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| | CHECKED BY | JWL | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**BOCCE PARK PLAN**

DRAWING SHEET
**C-14.4**

PROGRESS PLOT DATE: 1/16/2024







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BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR



GRAPHIC SCALE

10 0 05 10 20 40

( IN FEET )
1 inch = 10 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

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KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA

CONSTRUCTION PLANS

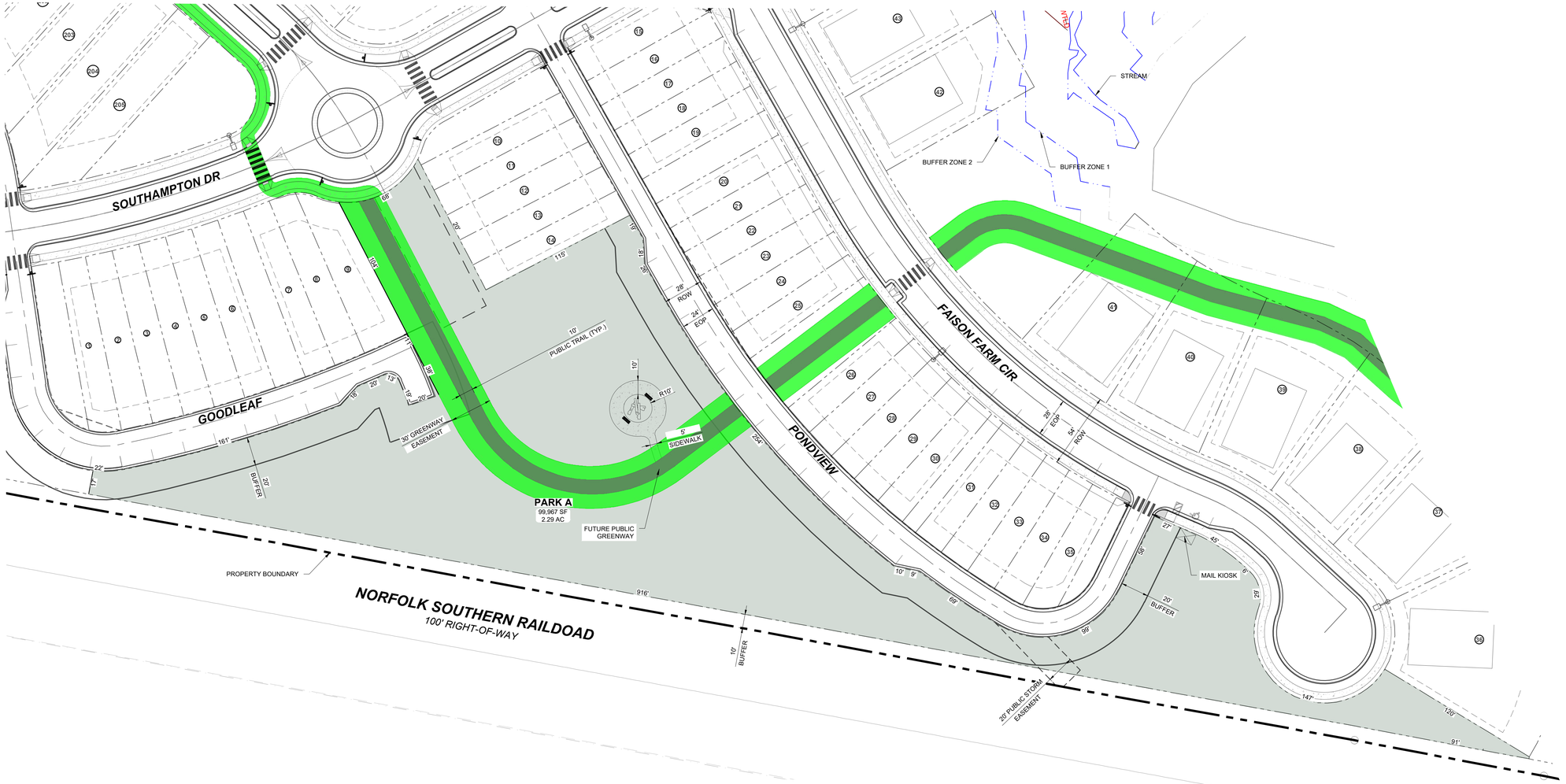
**PARK WITH BENCHES PLAN**

DRAWING SHEET

**C-14.5**

**78 OF 112**

PROGRESS PLOT DATE: 1/16/2024




**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE

40 0 20 40 80 160

( IN FEET )
1 inch = 40 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


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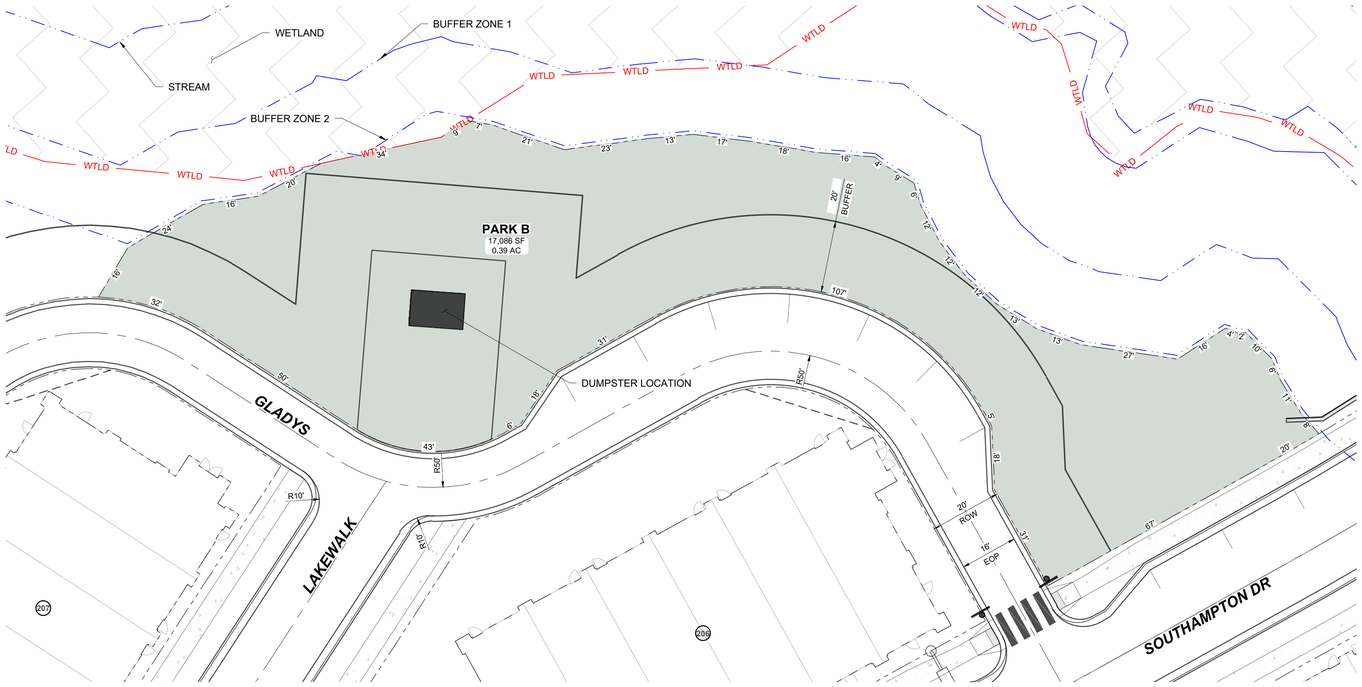

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|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
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| DESIGNED BY | JWL |
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| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**PARK PLAN**

DRAWING SHEET
**C-14.6**

PROGRESS PLOT DATE: 1/16/2024




**A. TOWN CERTIFICATION** , THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE

40 0 20 40 80 160

( IN FEET )
1 inch = 40 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK ENGINEERING GROUP

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| CHECKED BY | JWL | | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**PARK PLAN**

DRAWING SHEET
**C-14.7**

**80 OF 112**

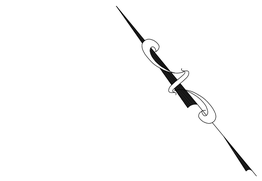
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BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR



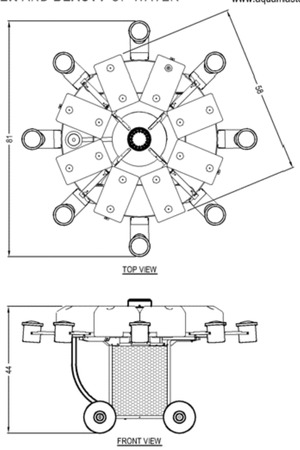
GRAPHIC SCALE

40 0 20 40 80 160

( IN FEET )
1 inch = 40 ft.

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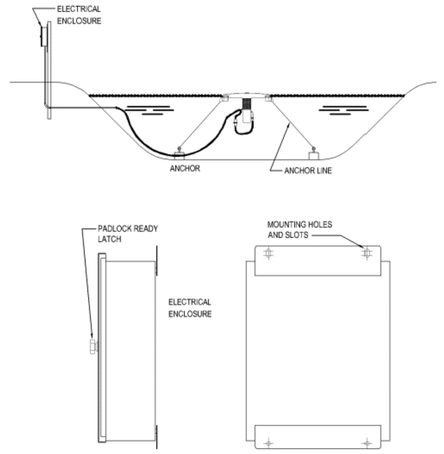

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MASTERS SERIES
7.5 - 10 HP FLOAT DIMENSIONS

011-003 REVISION DATE 06/12/2017

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FAX: (920) 693-3634
www.aquamasterfountains.com




NOTES:
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2. DO NOT SCALE DRAWINGS.
3. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 011-014.

MASTERS SERIES®
ELECTRICAL PANEL INSTALLATION DETAILS

011-014

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MASTER THE **POWER** AND **BEAUTY** OF WATER

**BOTTOM ANCHORING FOR 7.5-10 HP MASTERS**

CAUTION: IF THE UNIT IS NOT PROPERLY ANCHORED WITH ADEQUATE TENSION, THE UNIT WILL ROTATE WHEN IN OPERATION, RESULTING IN TWISTED AND DAMAGED ELECTRICAL CABLE(S).

IN A LARGER BODY OF WATER OR WHERE VANDALISM IS A CONCERN, BOTTOM ANCHORING IS THE PREFERRED METHOD.

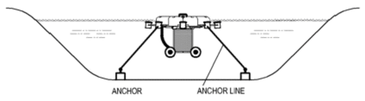
REQUIRED EQUIPMENT (NOT PROVIDED):

TWO (2) ANCHOR LINES (1/4 INCH NYLON, 1/8" STAINLESS STEEL CABLE OR EQUIVALENT). ANCHOR LINE LENGTH SHOULD EQUAL TWICE THE DEPTH OF THE POND AT POINT OF INSTALLATION. (EXAMPLE, IF POND DEPTH IS EIGHT FEET, EACH ANCHOR LINE SHOULD BE AT LEAST SIXTEEN FEET.) IF THE DEPTH OF THE POND VARIES MORE THAN THREE FEET, USE BOTTOM ANCHORING.

TWO (2) ANCHORS (EIGHT INCH CONCRETE BLOCKS, APPROXIMATE WEIGHT OF 30 POUNDS EACH IS SUFFICIENT).

ANCHORING STEPS

1. WITH UNIT FULLY ASSEMBLED AND STILL ON SHORE, ATTACH ANCHOR LINES TO THE FLOAT. ONLY USE THE ANCHOR HOLES WHICH ARE OPPOSITE FROM ONE ANOTHER. NEXT, CAREFULLY LOWER UNIT INTO THE POND. DO NOT TANGLE ANCHOR LINES AND ELECTRICAL CABLE(S).
2. POSITION UNIT AT DESIRED LOCATION IN POND, PLAYING OUT ELECTRICAL CABLE(S) FROM SHORE. ATTACH ANCHOR LINES TO ANCHORS AND ANCHOR UNIT MAKING SURE YOU CANNOT ROTATE UNIT MORE THAN 45 DEGREES. SOME MOVEMENT IS NECESSARY TO ALLOW FLOAT TO MOVE UP AND DOWN WITH CHANGES IN WATER DEPTH. IF YOU CAN ROTATE FLOAT MORE THAN 45 DEGREES, ADJUST ANCHOR LINES OR RELOCATE ANCHORS.




NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 011-004.

MASTERS SERIES
7.5 - 10 HP BOTTOM ANCHORING DETAILS

011-004 REVISION DATE 06/12/2017

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NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT
SEAL

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| | SCALE AS SHOWN | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**THE POND FOUNTAIN**

DRAWING SHEET
**C-14.8**

**81 OF 112**







WIDEWATERS PARKWAY
60' PUBLIC R/W

WIDEWATERS SUBDIVISION
LOTS 47-62, 64-70
B.M. 2003, PG. 310

PROPOSED GREENWAY TRAIL (TYP.)

NATURE TRAIL SIGNAGE

EXISTING GREENWAY TRAIL (TYP.)

STREAM SCE
STREAM SA
STREAM SCG
CREEK CROSSES PROPERTY LINE
WETLAND WA-3
WETLAND WG-1
WETLAND WG-2

EX. 30' SANITARY SEWER
30' CITY OF RALEIGH SANITARY SEWER EASEMENT

TOP OF BANKS
10' TRAIL
11'-4" GREENWAY EASEMENT
4' SIDEWALK
ENHANCED CROSSWALK
RETAINING WALL
20' SCM MAINTENANCE EASEMENT
20' PUBLIC STORM DRAIN EASEMENT
20' BUFFER

WIDEWATERS PARKWAY
GOODLEAF
SOUTHAMPTON DR
LAKEWALK
GLADYS
FEATURE G
PARK B
SCM #1
SCM #2

THE TOWN OF KNIGHTDALE
D.B. 6389, PG. 492
B.M. 1994, PG. 1287, TRACT E

EX. CONCRETE MONUMENT

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

**A. TOWN CERTIFICATION** , THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR




| No. | REVISIONS | DATE | BY |
|---|---|---|---|

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SEAL

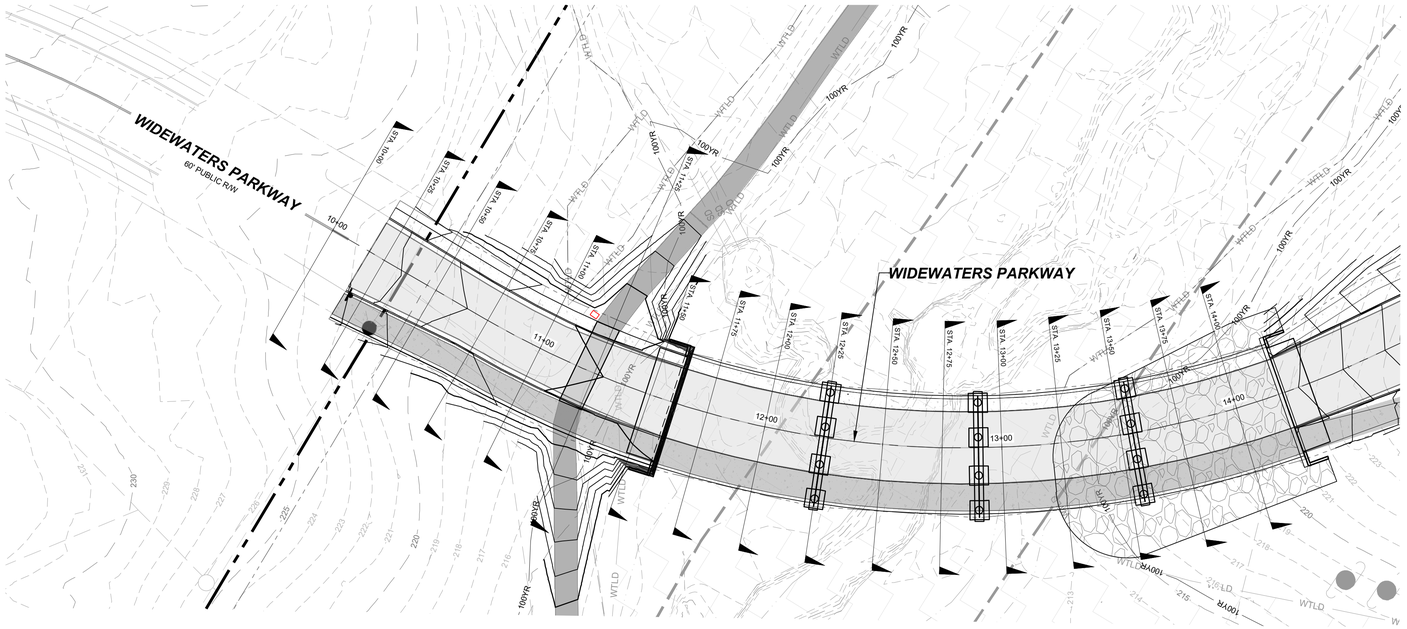
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| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

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TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**NATURE TRAIL SIGNAGE**

DRAWING SHEET
**C-14.9**




**STREET A IMPROVEMENT- PLAN**
**HORIZONTAL: 1" = 30'**



GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )
1 inch = 30 ft.

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TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
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SEAL
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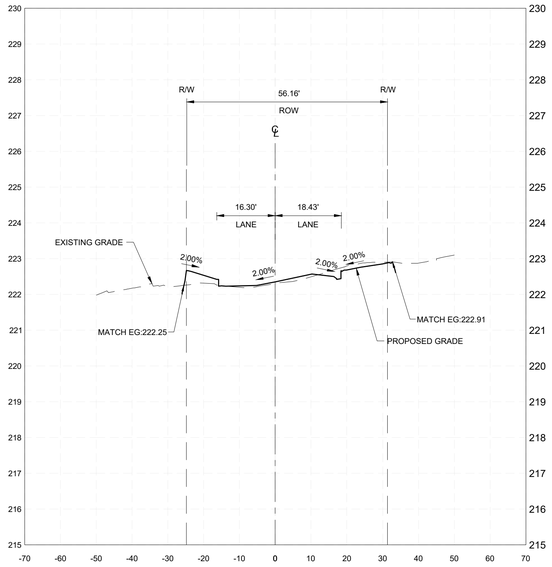
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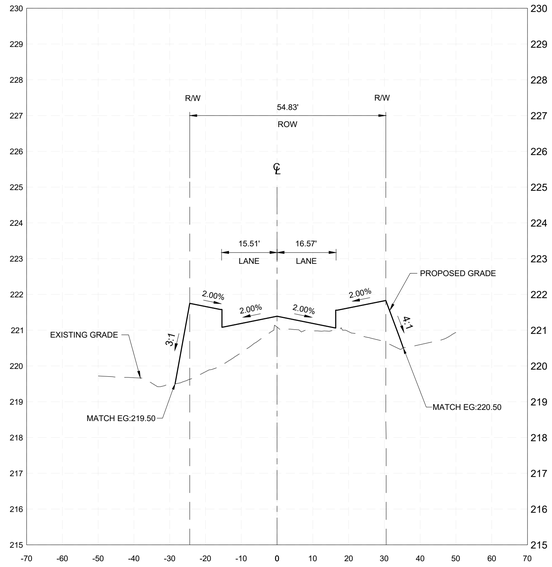
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**WIDEWATERS PARKWAY**
**- CROSS SECTIONS**

DRAWING SHEET
**C-15.0**

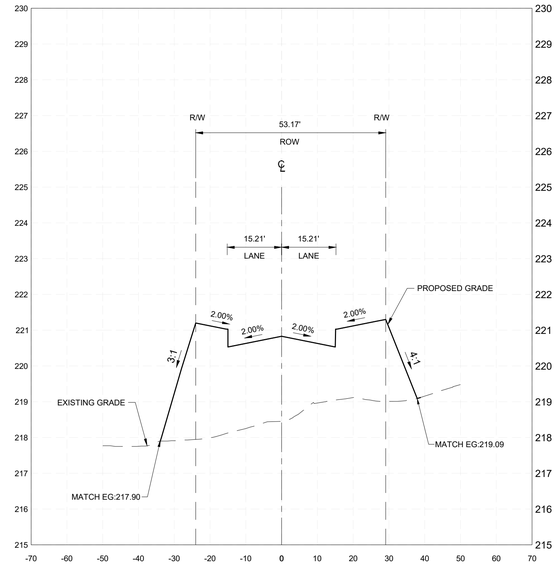
### 10+25.00



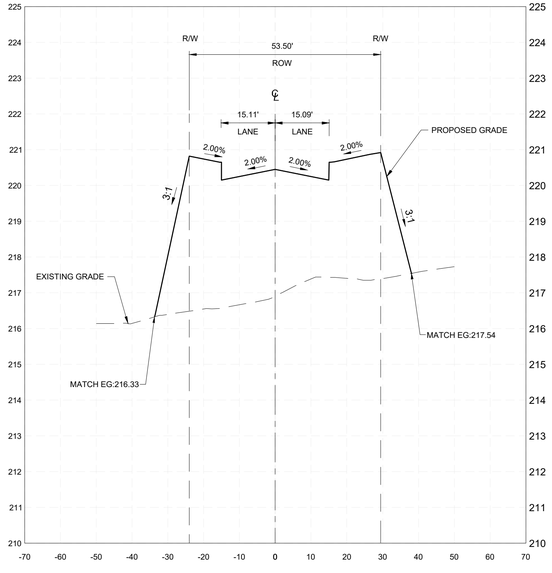

### 10+50.00



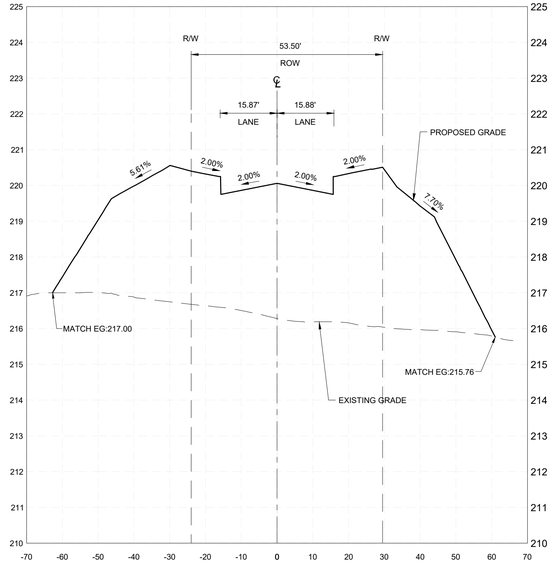

### 10+75.00



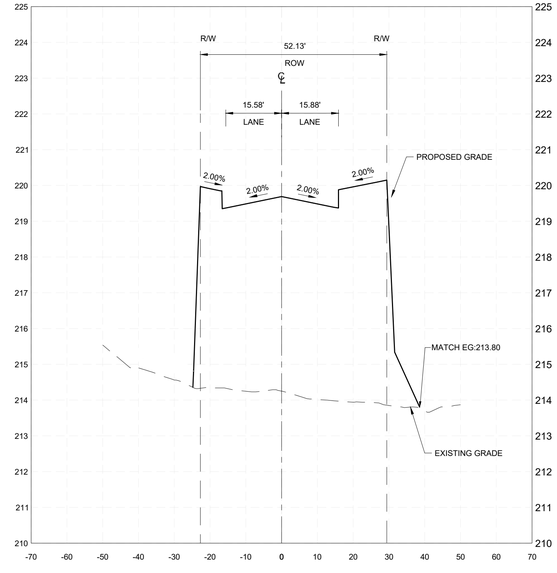

### 11+00.00




### 11+25.00




### 11+50.00




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BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## CROSS SECTIONS

**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

| No. | REVISIONS | DATE | BY |
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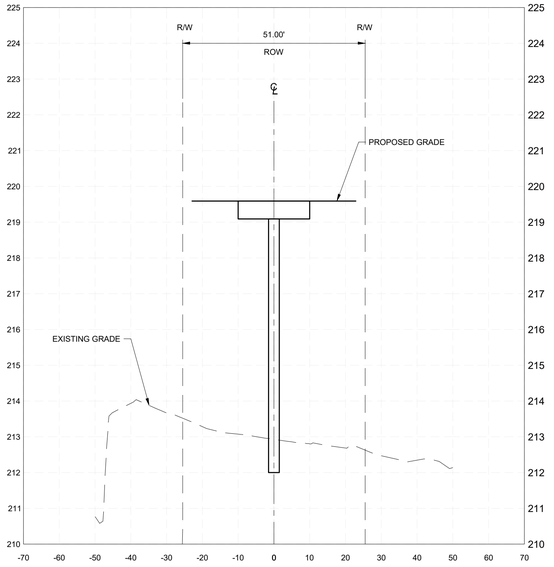
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| | | CHECKED BY | JWL |

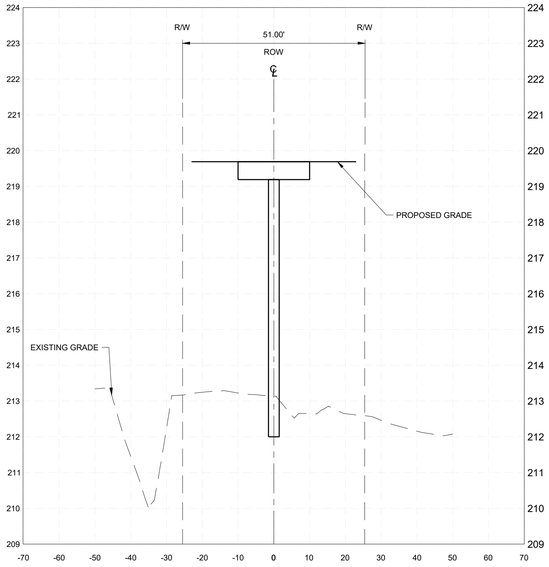
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**WIDEWATERS PARKWAY**
**- CROSS SECTIONS**

DRAWING SHEET
**C-15.1**

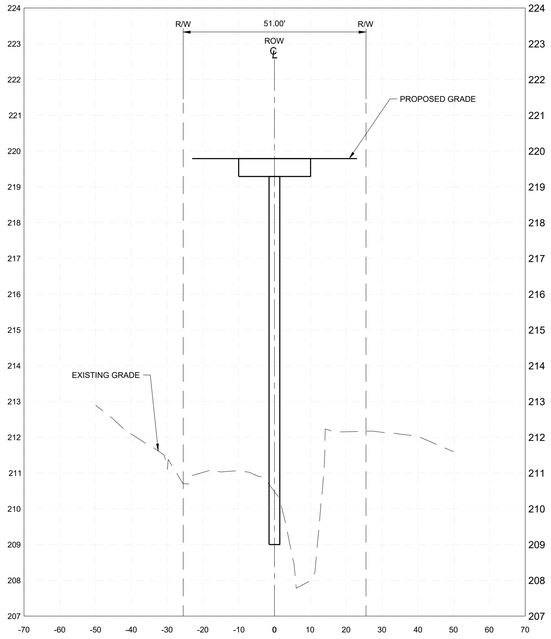
### 11+75.00



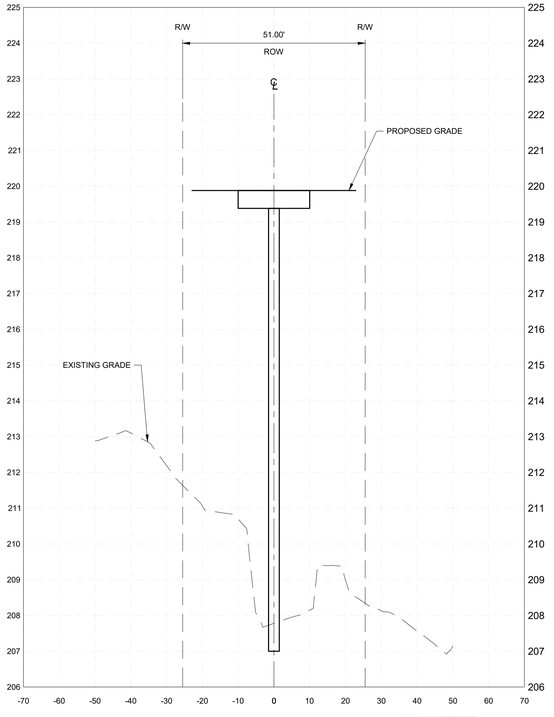

### 12+00.00



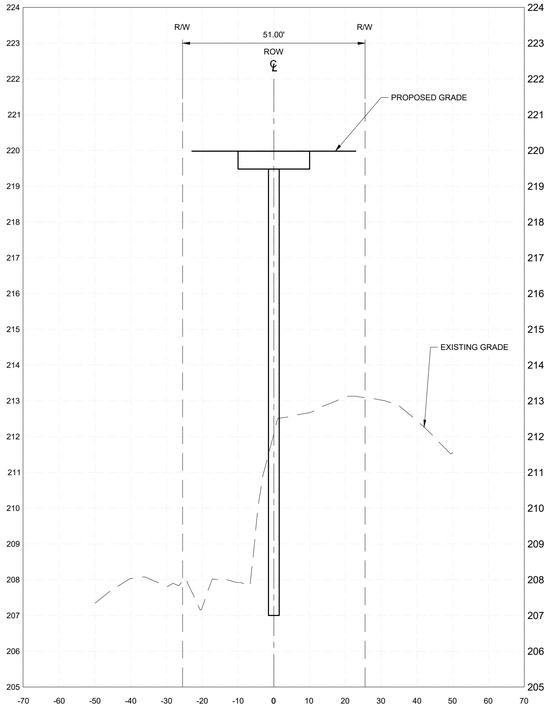

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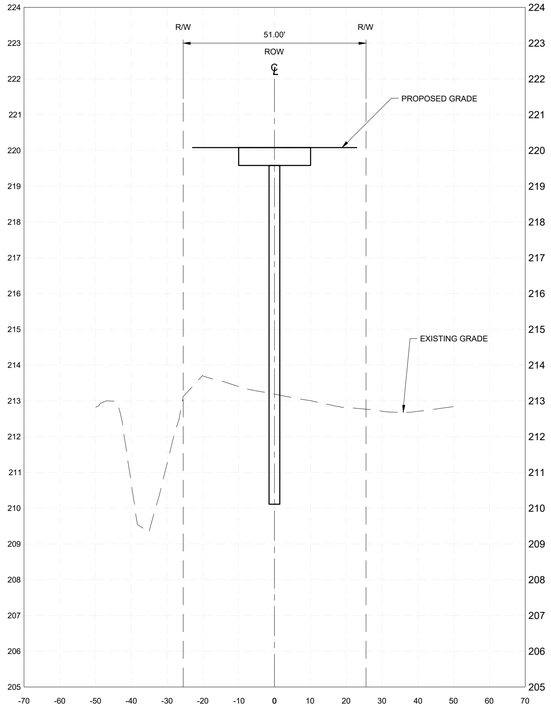

### 12+50.00




### 12+75.00




### 13+00.00




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BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## CROSS SECTIONS

**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

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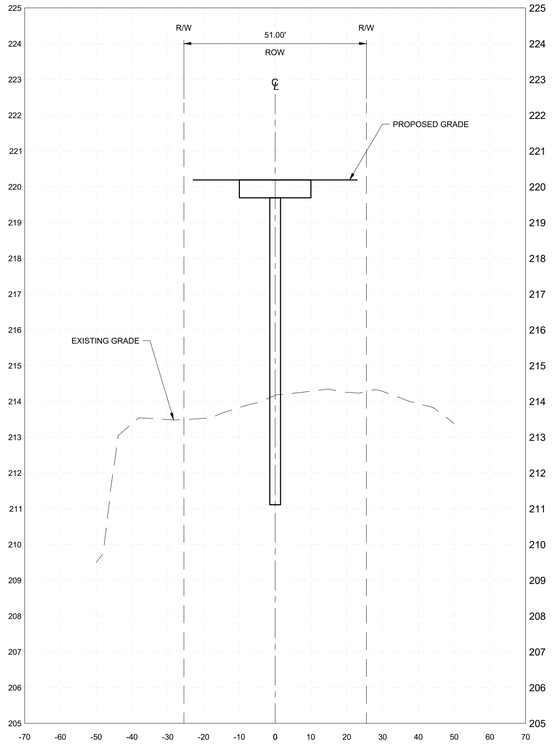
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| | | CHECKED BY | JWL |

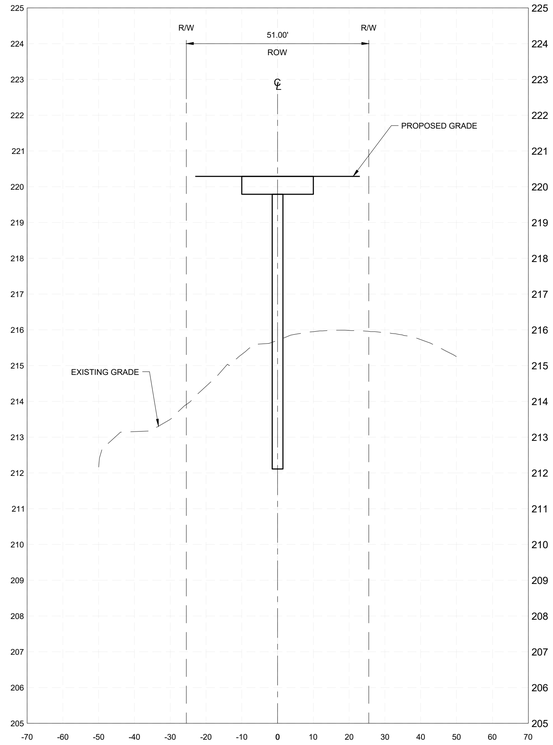
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**WIDEWATERS PARKWAY**
**- CROSS SECTIONS**

DRAWING SHEET
**C-15.2**

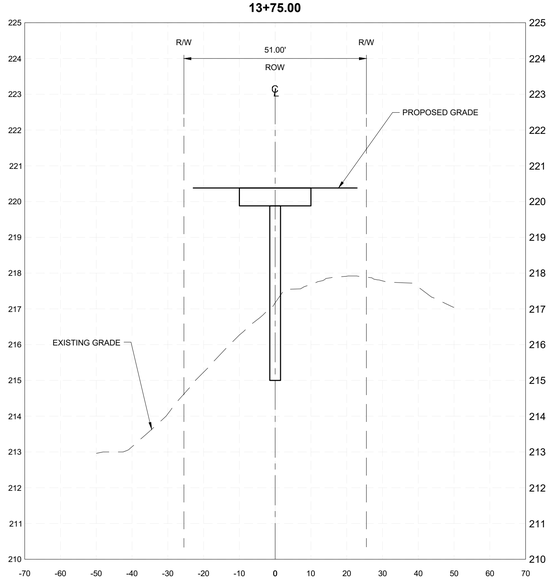
### 13+25.00



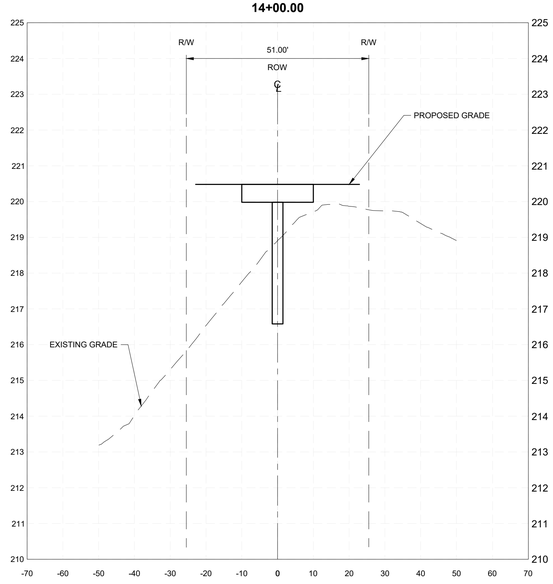

### 13+50.00




### 13+75.00




### 14+00.00




**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

**CROSS SECTIONS**
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

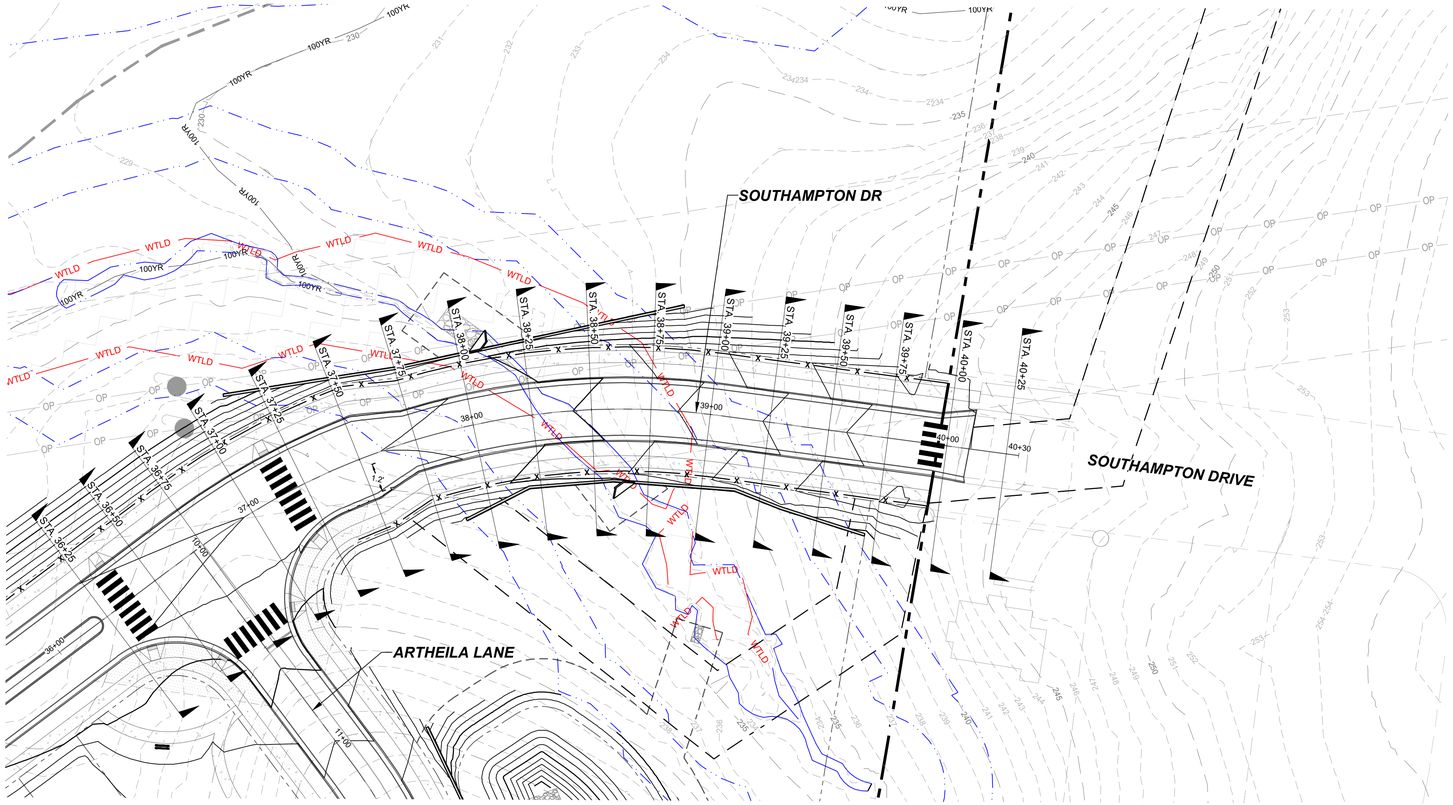
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KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**WIDEWATERS PARKWAY**
**- CROSS SECTIONS**

DRAWING SHEET
**C-15.3**




GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )
1 inch = 30 ft.

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LAND USE ADMINISTRATOR

**SOUTHAMPTON DR - CROSS SECTION - PLAN**
**HORIZONTAL: 1" = 30'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

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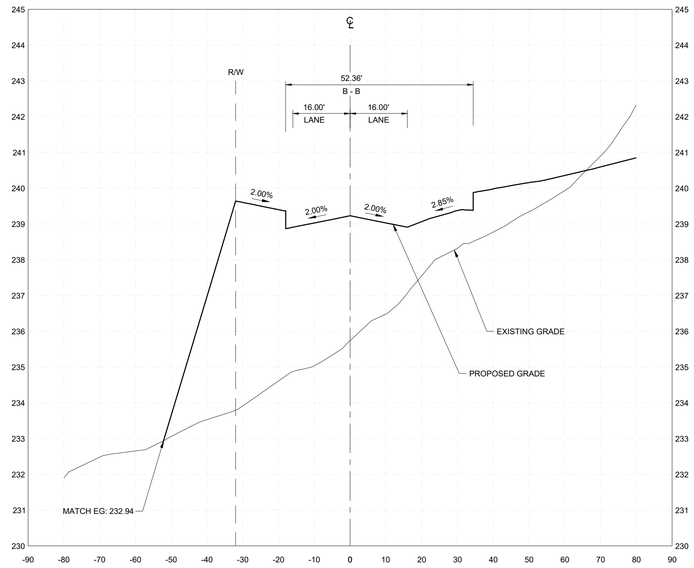
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| | DESIGNED BY | JWL | SRG |
| | DRAWN BY | SRG | JWL |
| | CHECKED BY | JWL | |

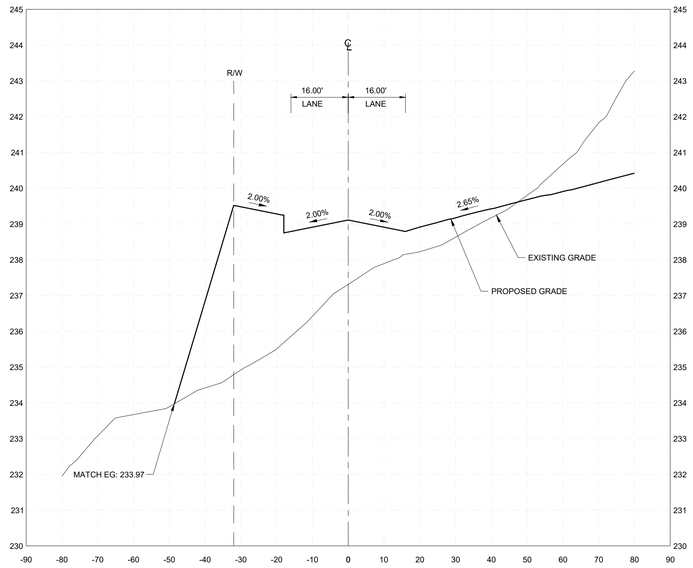
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TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**SOUTHAMPTON DR - CROSS SECTIONS**

DRAWING SHEET
**C-16.0**

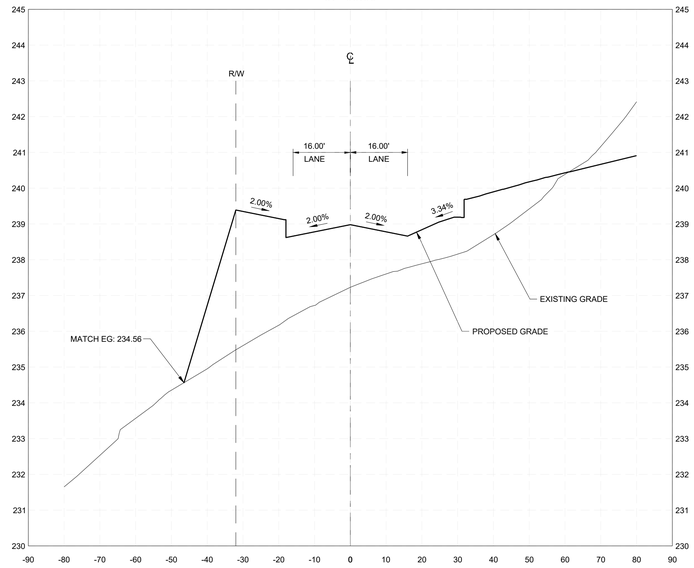
36+50.00



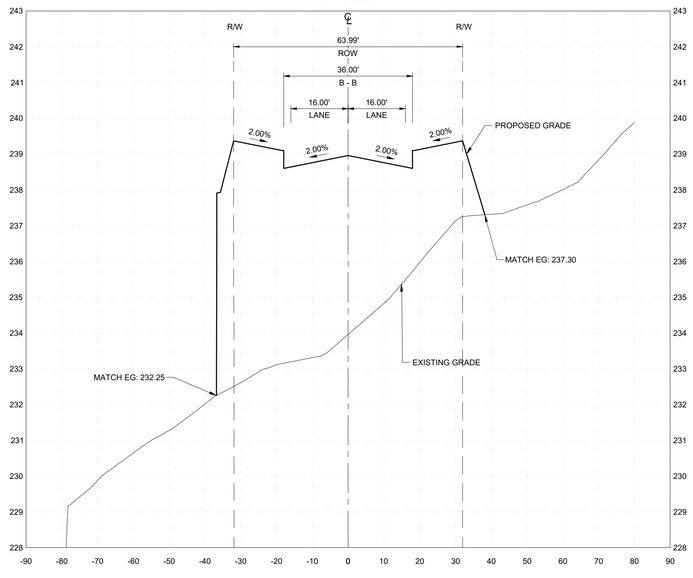

36+75.00



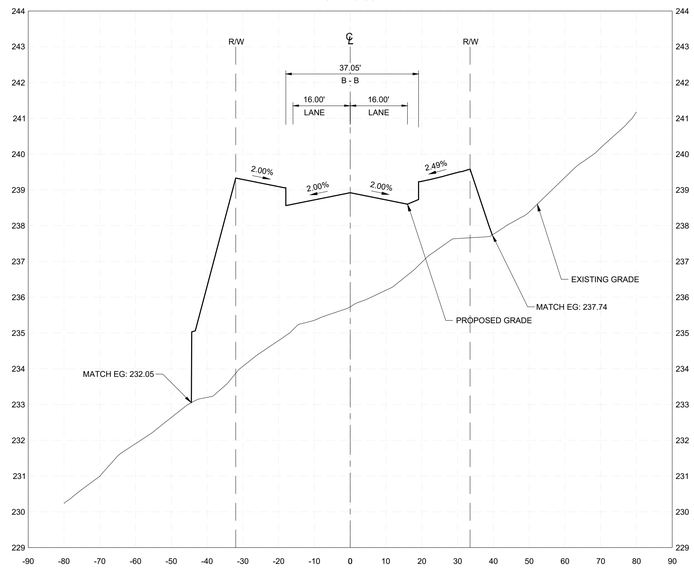

37+00.00




37+50.00




37+25.00




**CROSS SECTIONS**
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

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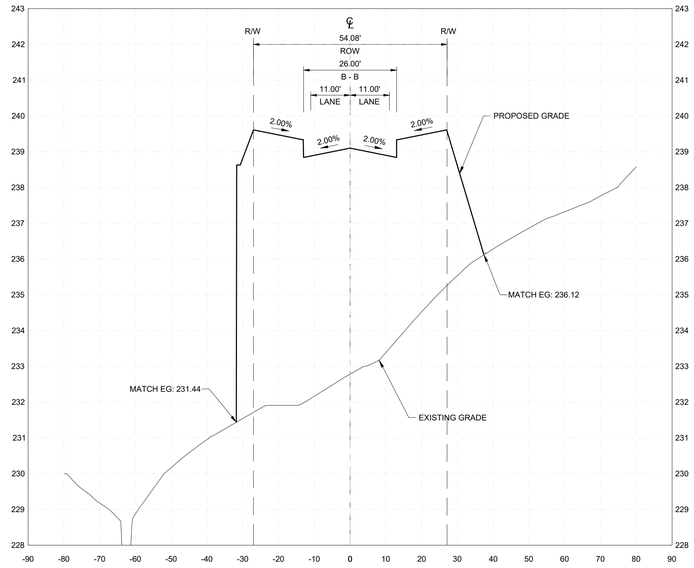
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| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

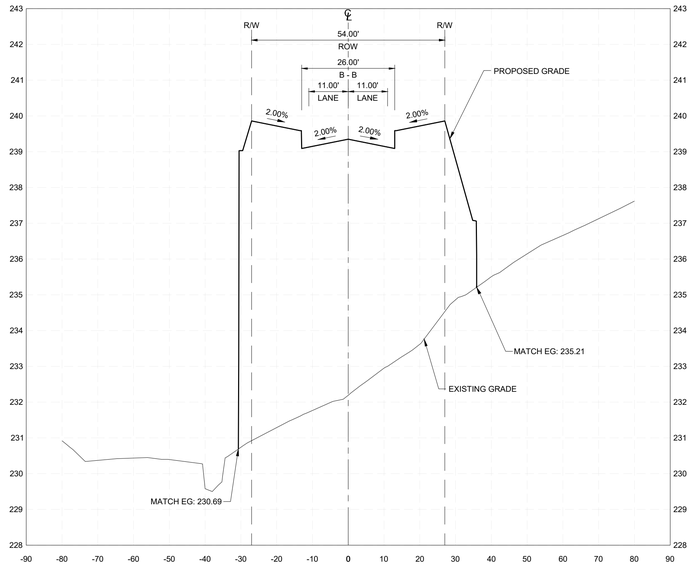
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**SOUTHAMPTON DR**
**- CROSS SECTIONS**

DRAWING SHEET
**C-16.1**

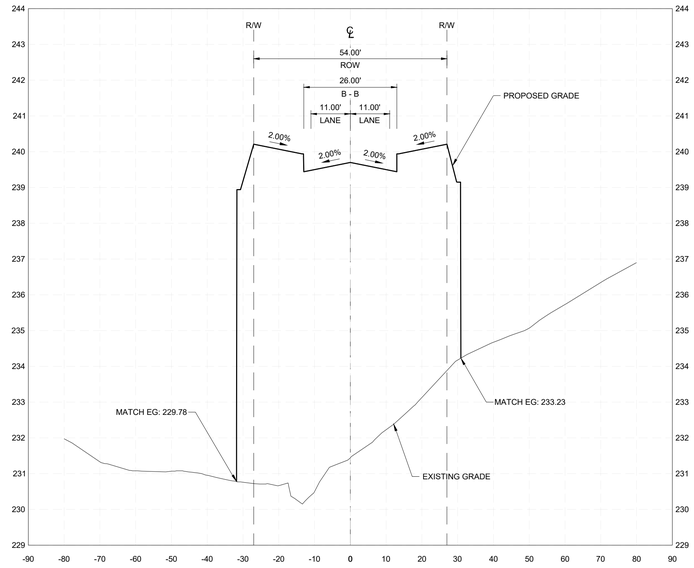
37+75.00



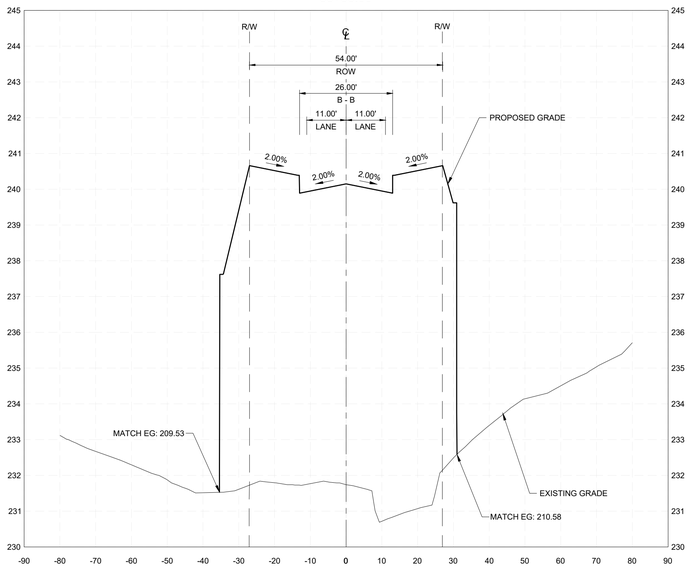

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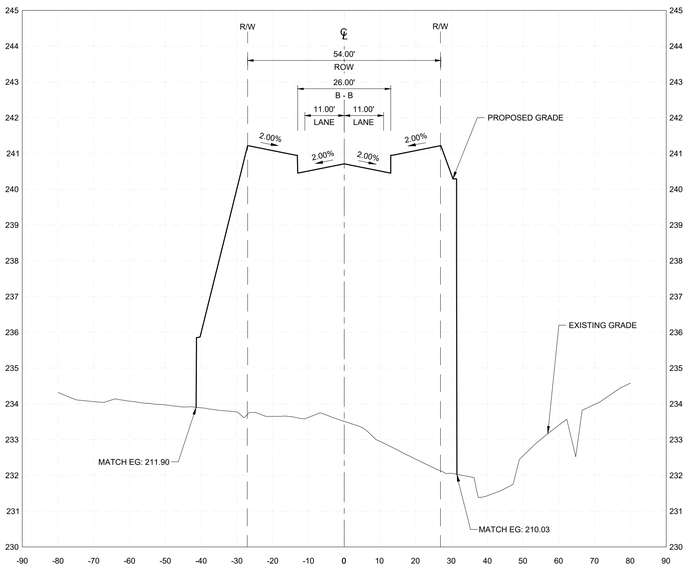

38+25.00




38+50.00




38+75.00




**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

**CROSS SECTIONS**
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

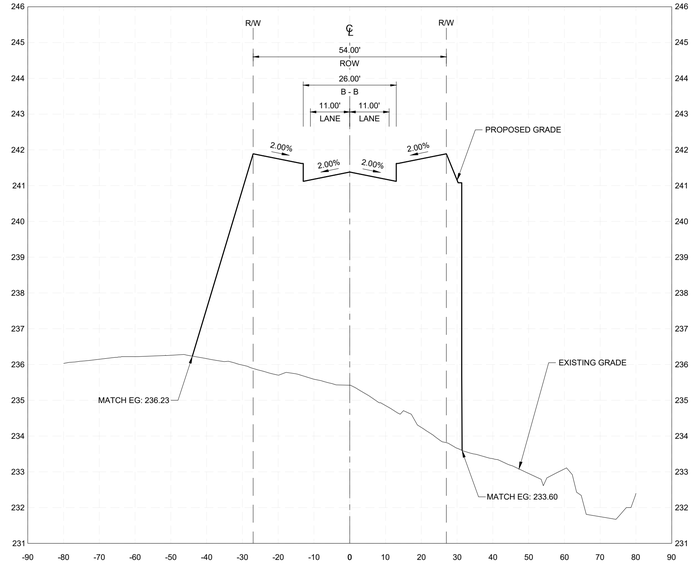
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

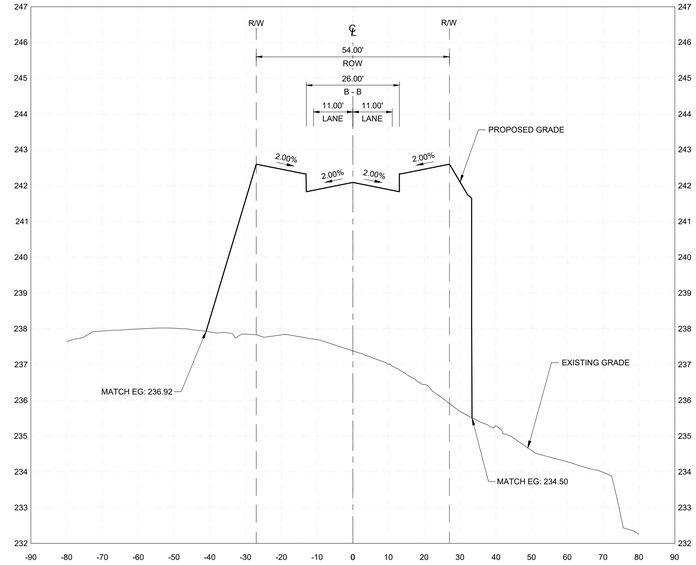
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**SOUTHAMPTON DR**
**- CROSS SECTIONS**

DRAWING SHEET
**C-16.2**

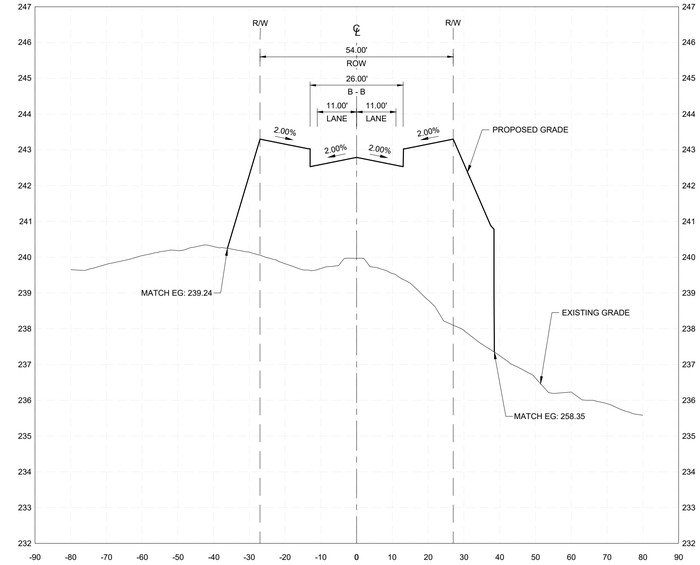
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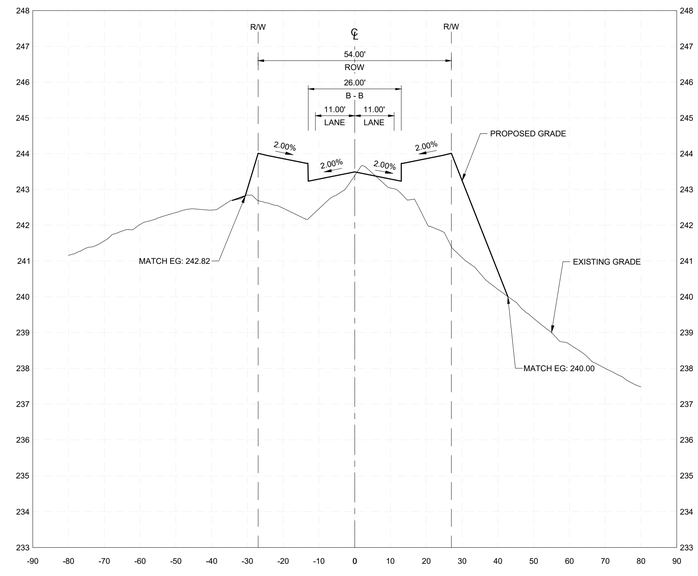

39+25.00



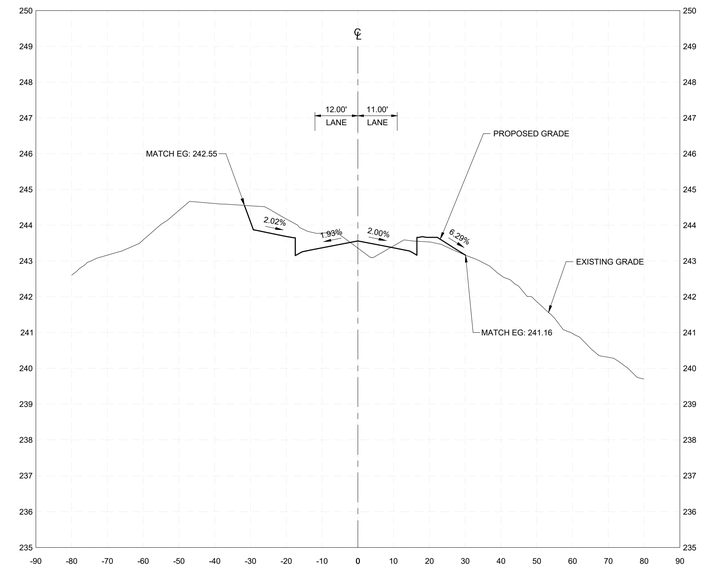

39+50.00



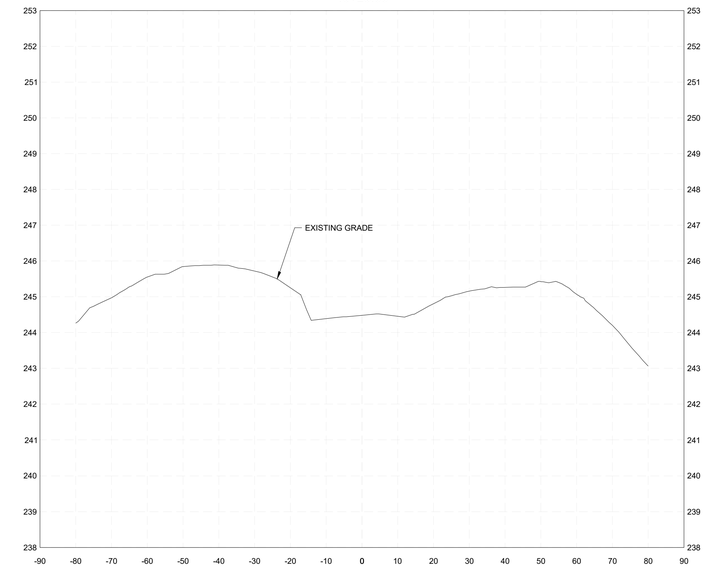

39+75.00




40+00.00




40+25.00




**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

**CROSS SECTIONS**
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**SOUTHAMPTON DR**
**- CROSS SECTIONS**

DRAWING SHEET
**C-16.3**

**A. TOWN CERTIFICATION** , THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____DATE: _____
LAND USE ADMINISTRATOR




GRAPHIC SCALE
50 0 25 50 100 200
( IN FEET )
1 inch = 50 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**HODGE RD AND LYNNWOOD IMPROVEMENTS PLAN**

DRAWING SHEET
**C-17.0**

PROGRESS PLOT DATE: 1/16/2024




**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


| | | | |
|---|---|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | | |
| SCALE | AS SHOWN | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

# WIDEWATERS PARKWAY & LAURENS WAY IMPROVEMENTS PLAN

DRAWING SHEET
C-17.1

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____DATE: _____
LAND USE ADMINISTRATOR

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

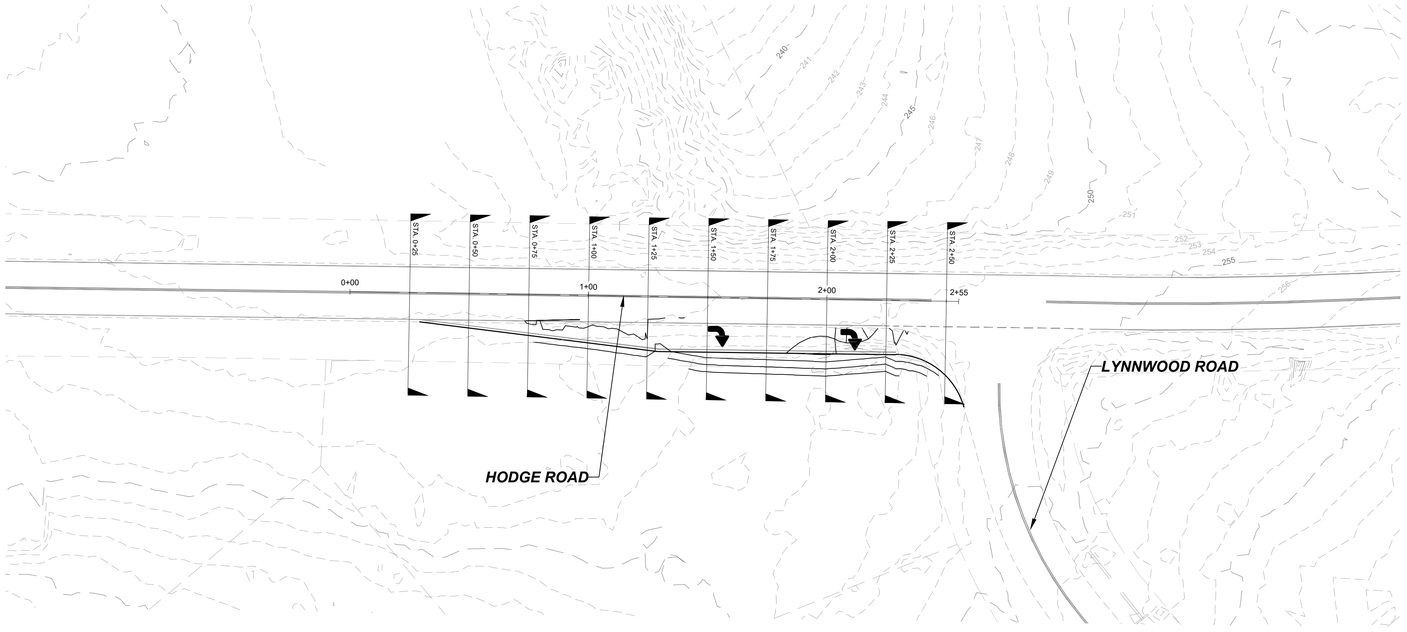
STRONGROCK
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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

# CARRINGTON DRIVE & SMITHFIELD ROAD IMPROVEMENTS PLAN

DRAWING SHEET
C-17.2



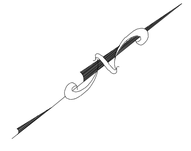

**HODGE ROAD IMPROVEMENT- PLAN**
**HORIZONTAL: 1" = 30'**

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR



GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )
1 inch = 30 ft.

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

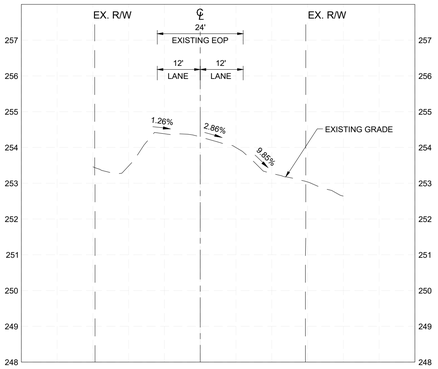
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

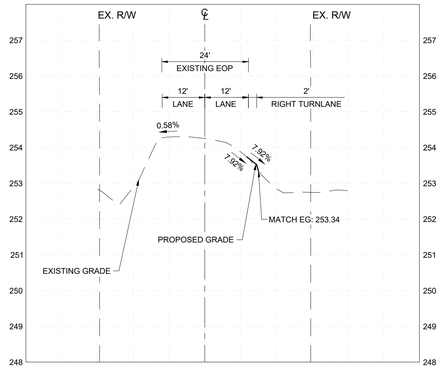
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**HODGE ROAD - CROSS SECTIONS**

DRAWING SHEET
**C-18.0**

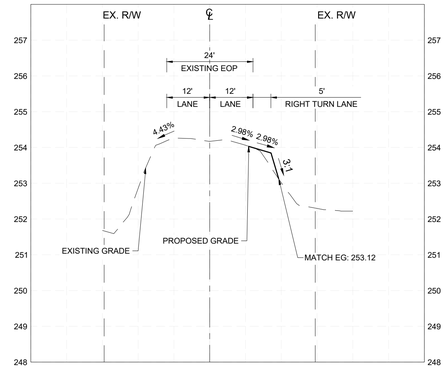
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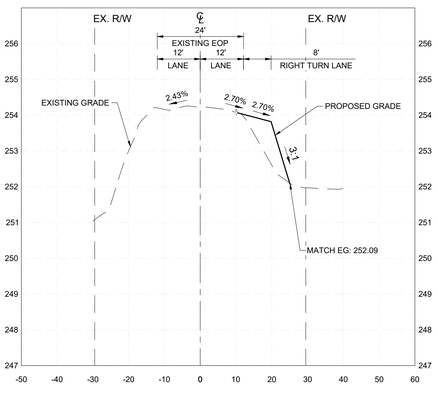

## 0+50.00



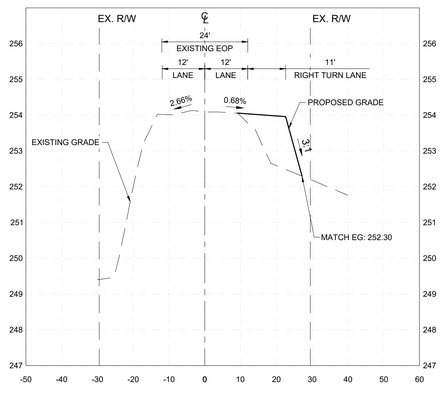

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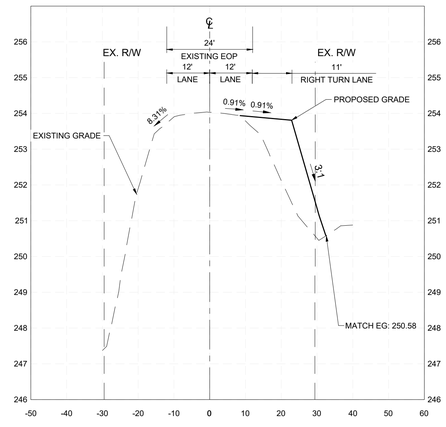

## 1+00.00




## 1+25.00




## 1+50.00




**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

**CROSS SECTIONS**
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

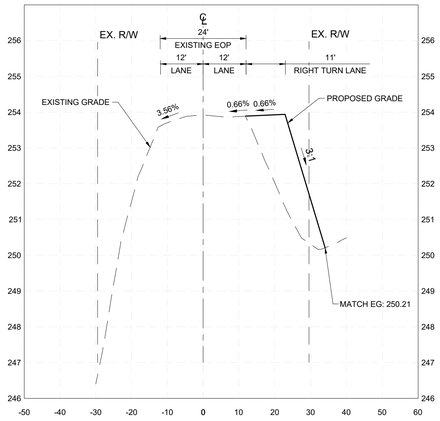
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

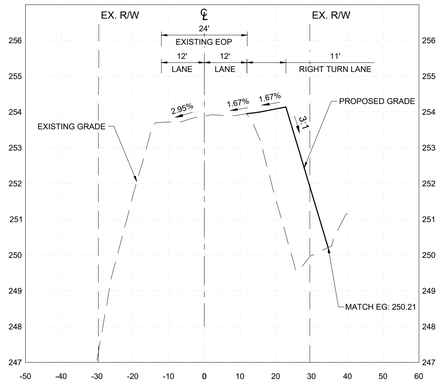
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**HODGE ROAD - CROSS SECTIONS**

DRAWING SHEET
**C-18.1**

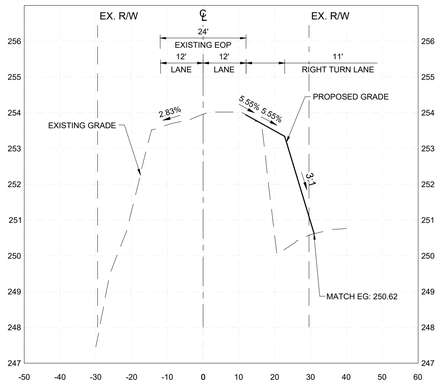
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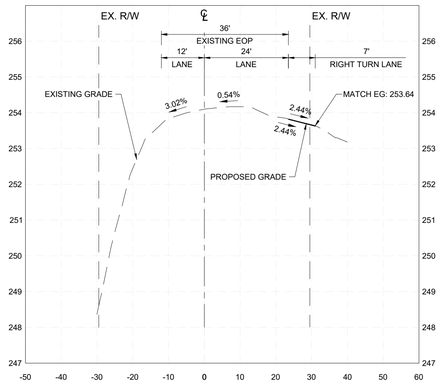

## 2+00.00




## 2+25.00




## 2+50.00




**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

**CROSS SECTIONS**
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

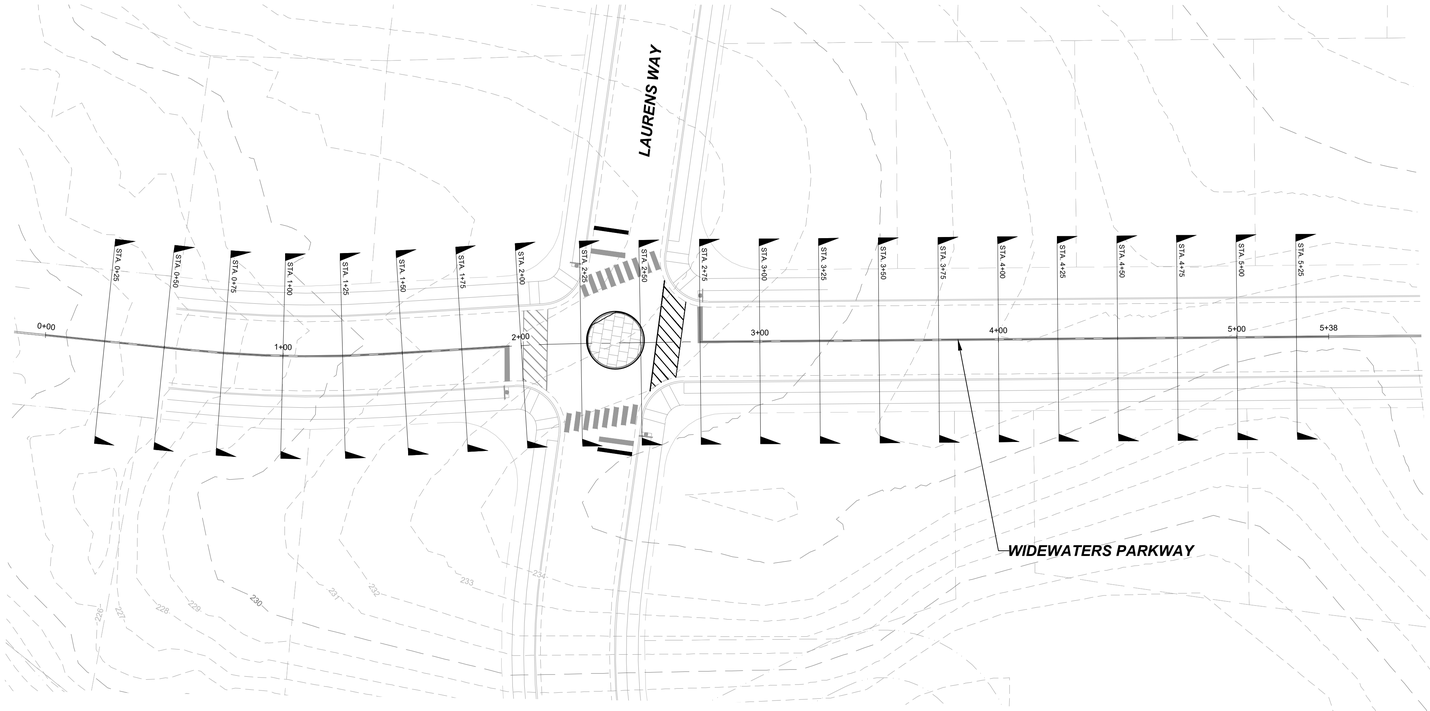
| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**HODGE ROAD - CROSS SECTIONS**

DRAWING / SHEET
**C-18.2**

PROGRESS PLOT DATE: 1/16/2024




**WIDEWATERS PARKWAY IMPROVEMENT- PLAN**
**HORIZONTAL: 1" = 30'**

GRAPHIC SCALE
30 0 15 30 60 120
( IN FEET )
1 inch = 30 ft.

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

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BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT


STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

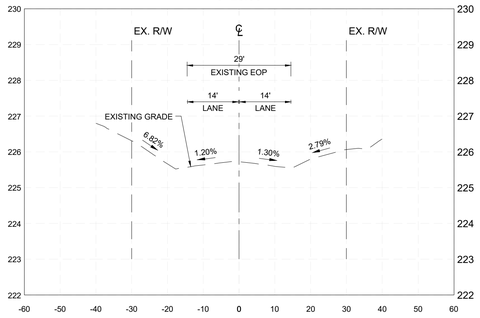

| STRONG ROCK PROJECT | | | |
|---|---|---|---|
| NOT FOR CONSTRUCTION | SCALE | AS SHOWN | |
| | DESIGNED BY | JWL | |
| | DRAWN BY | SRG | |
| | CHECKED BY | JWL | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**WIDEWATERS PARKWAY - CROSS SECTIONS**

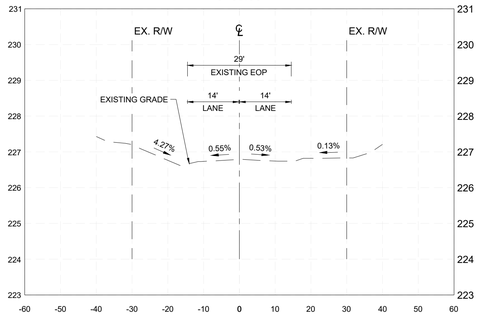
DRAWING SHEET
**C-19.0**

**97 OF 112**

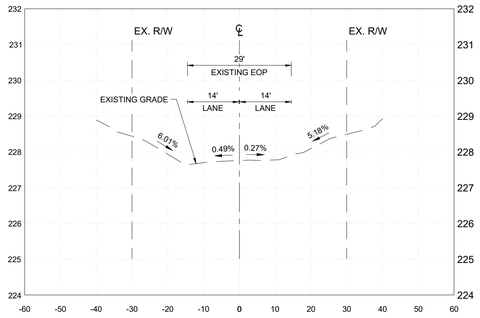
**0+25.00**



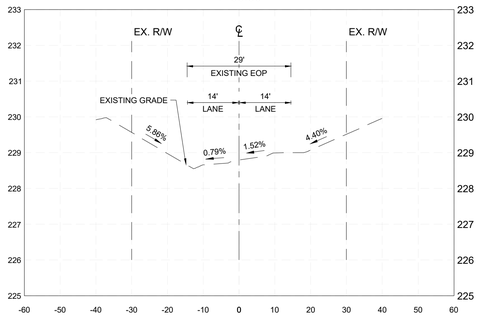

**0+50.00**



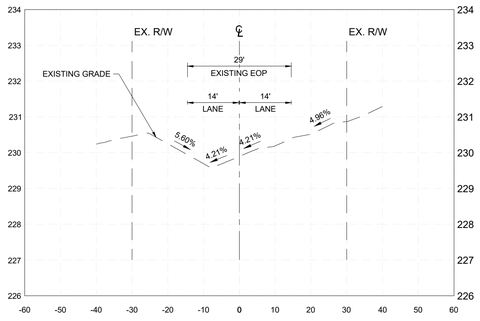

**0+75.00**



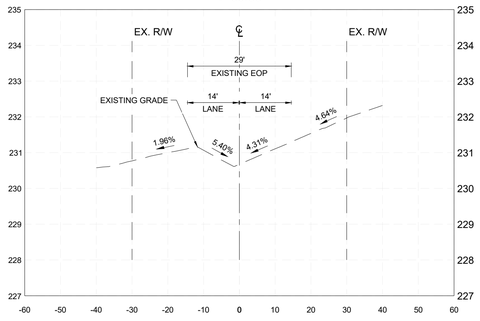

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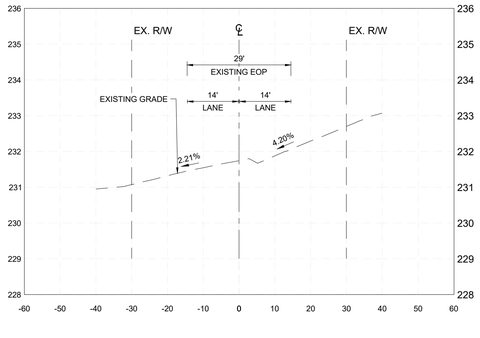

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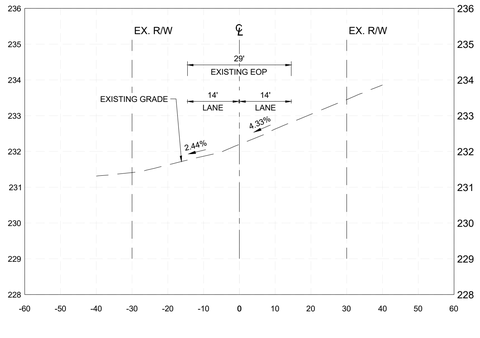

**1+50.00**



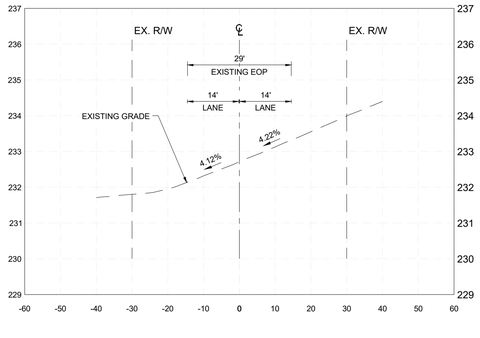

**1+75.00**




**2+00.00**




**2+25.00**




## CROSS SECTIONS

**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

**A. TOWN CERTIFICATION** , THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

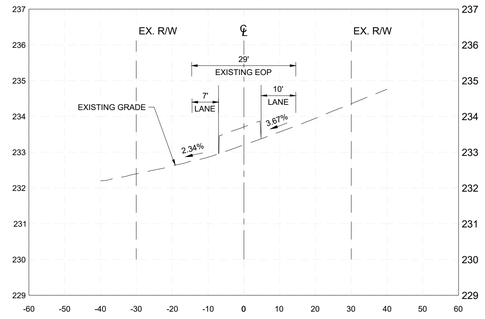
STRONGROCK
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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

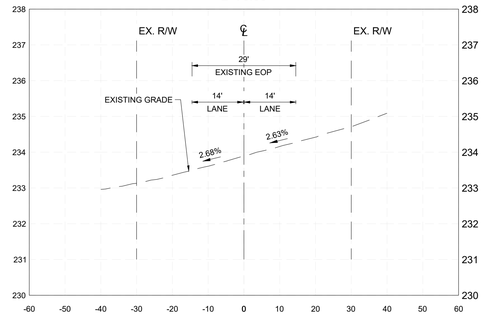
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**WIDEWATERS PARKWAY - CROSS SECTIONS**

DRAWING / SHEET
**C-19.1**

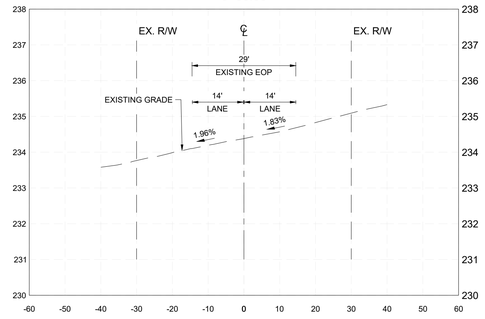
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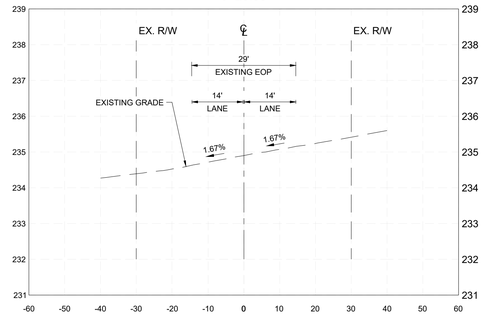

### 2+75.00



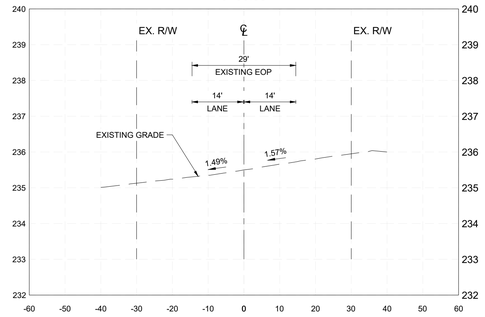

### 3+00.00



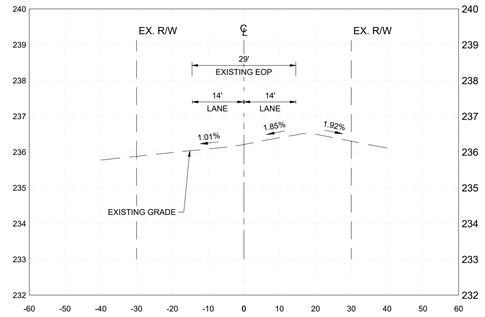

### 3+25.00



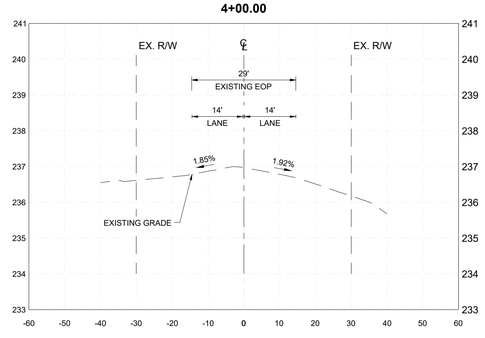

### 3+50.00



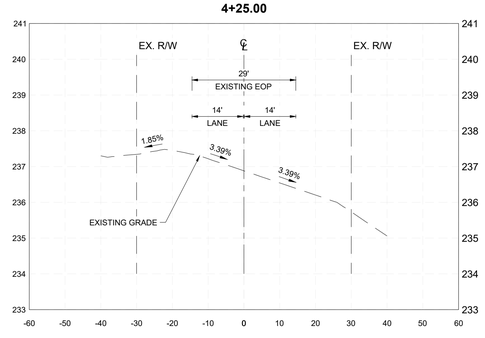

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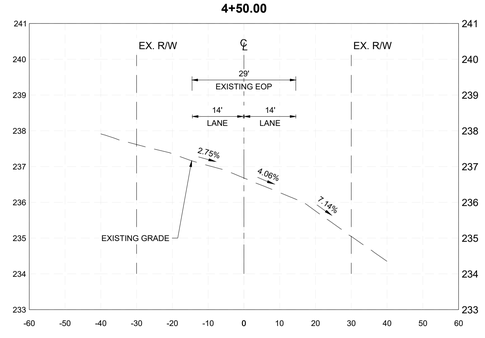

### 4+00.00




### 4+25.00




### 4+50.00




## CROSS SECTIONS

**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

**A. TOWN CERTIFICATION** . THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

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LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT
SEAL

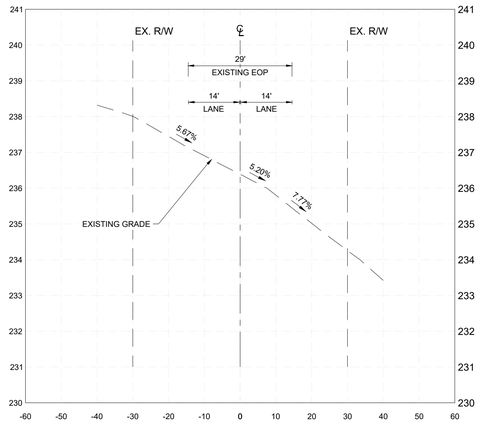
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| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

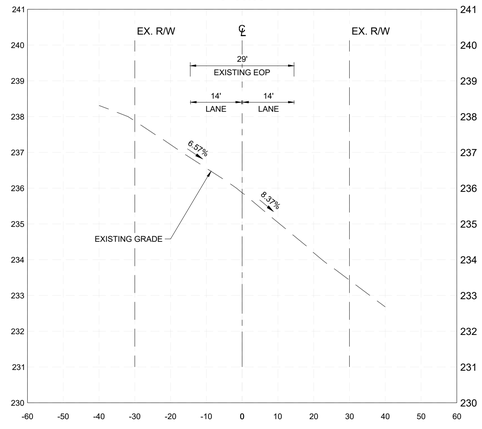
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**WIDEWATERS PARKWAY**
**- CROSS SECTIONS**

DRAWING
SHEET
**C-19.2**

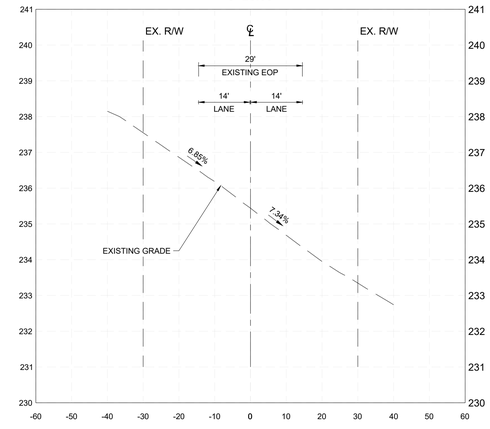
**4+75.00**




**5+00.00**




**5+25.00**




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LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
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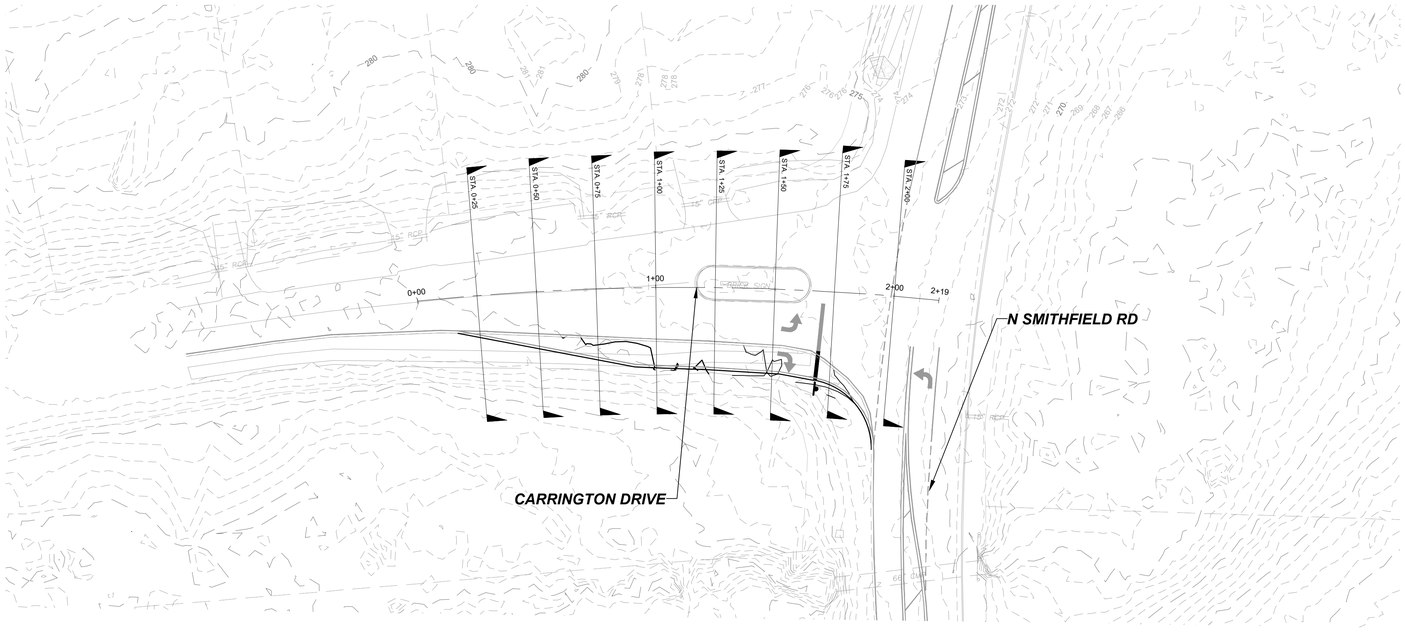
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

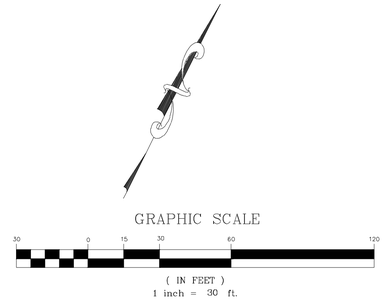
| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**WIDEWATERS PARKWAY**
**- CROSS SECTIONS**

DRAWING SHEET
**C-19.3**




**CARRINGTON DRIVE IMPROVEMENT- PLAN**
**HORIZONTAL: 1" = 30'**




**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

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LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

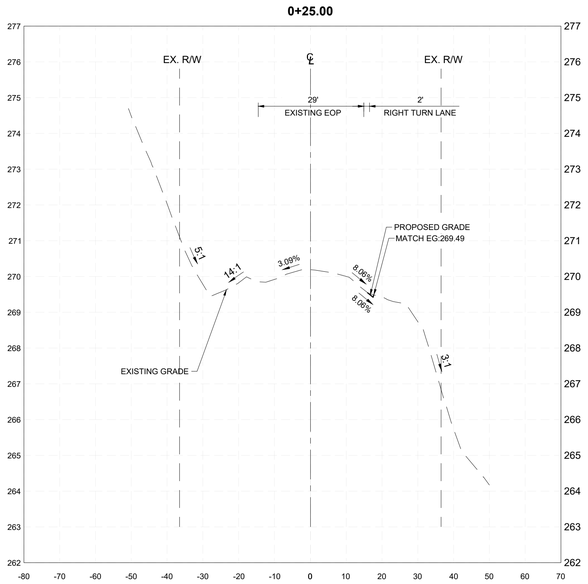
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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

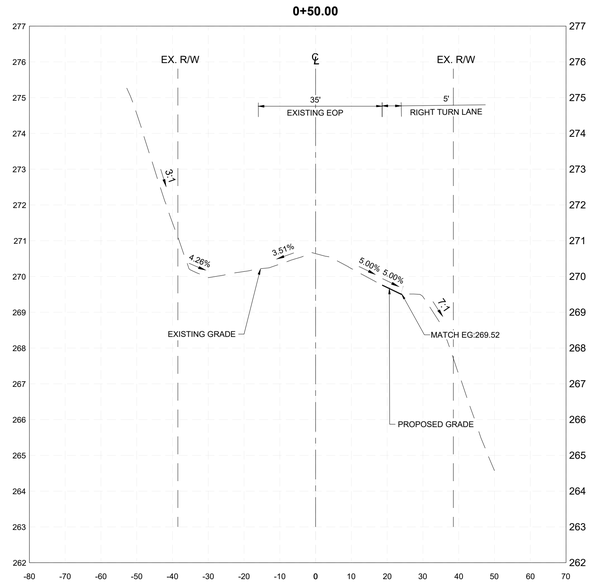
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| STRONG ROCK PROJECT | |
| | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

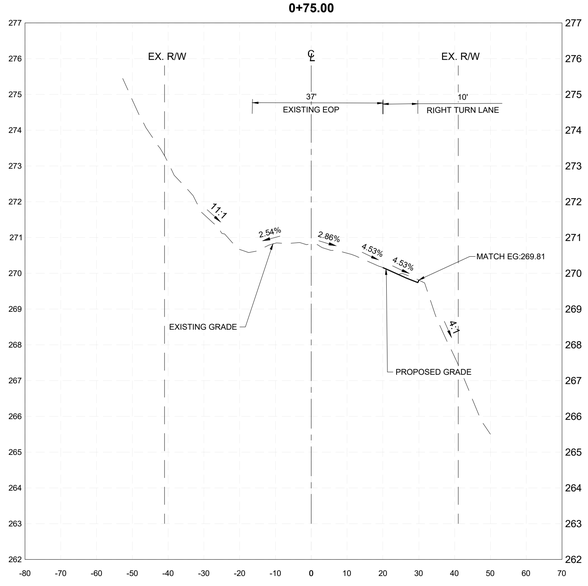
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**CARRINGTON DRIVE - CROSS SECTIONS**

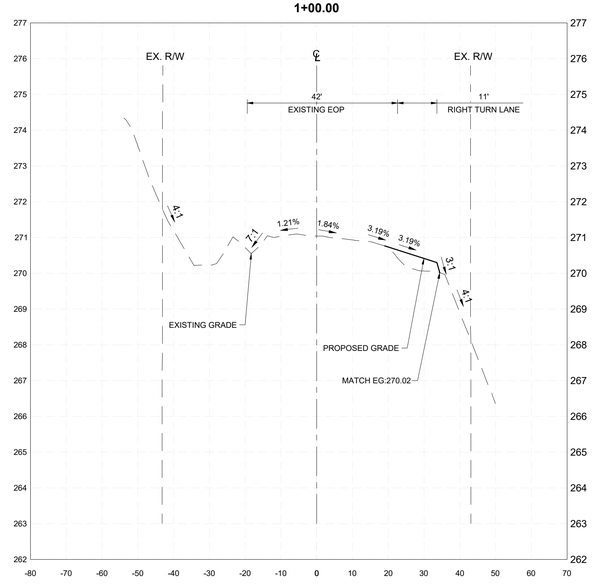
DRAWING SHEET
**C-20.0**

**101 OF 112**




**CROSS SECTIONS**
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

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LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

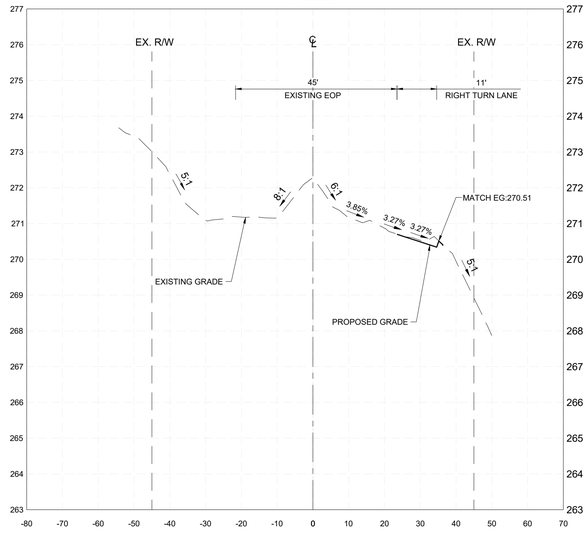
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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

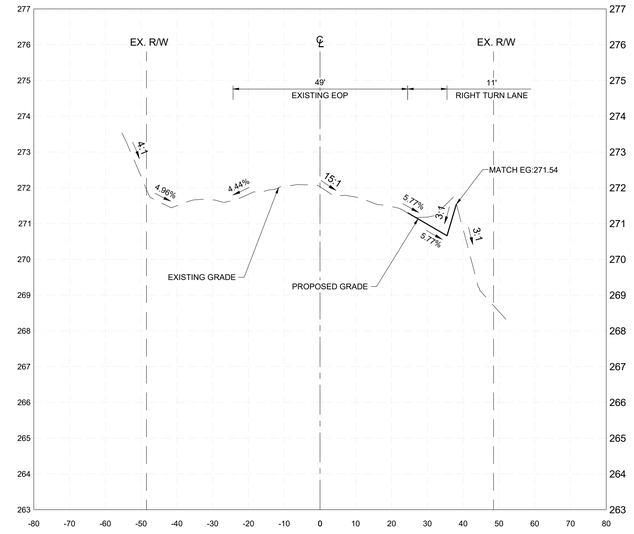
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**CARRINGTON DRIVE - CROSS SECTIONS**

DRAWING / SHEET
**C-20.1**

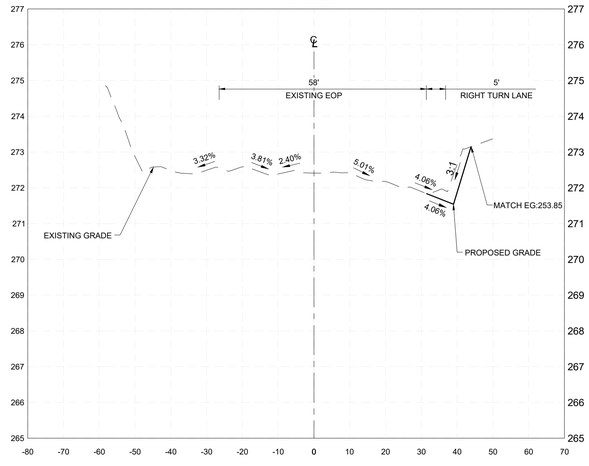
**1+25.00**



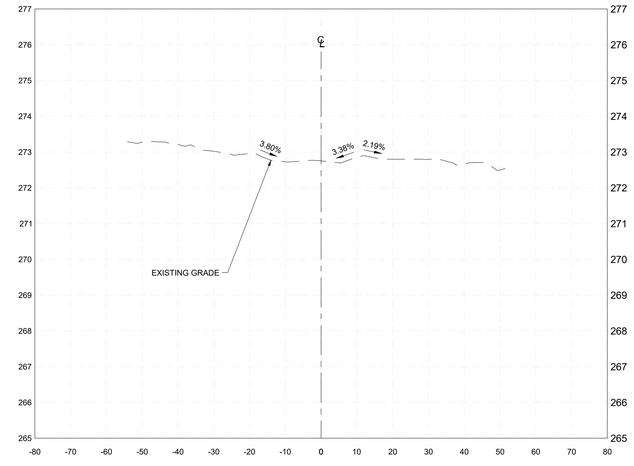

**1+50.00**




**1+75.00**




**2+00.00**




**CROSS SECTIONS**
**VERTICAL: 1" = 2'**
**HORIZONTAL: 1" = 20'**

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TOWN ENGINEER

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LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

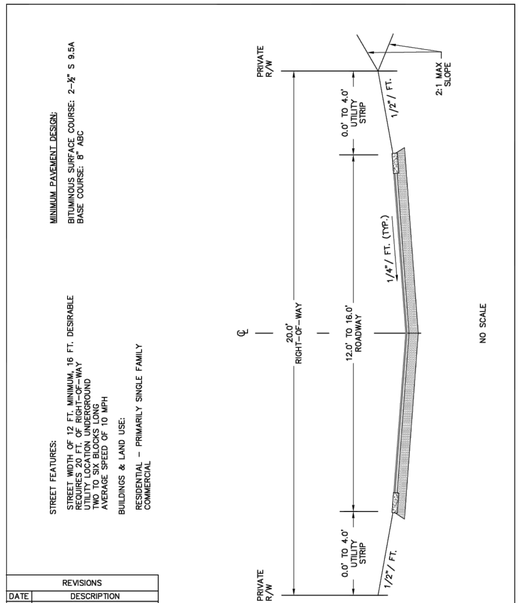
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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

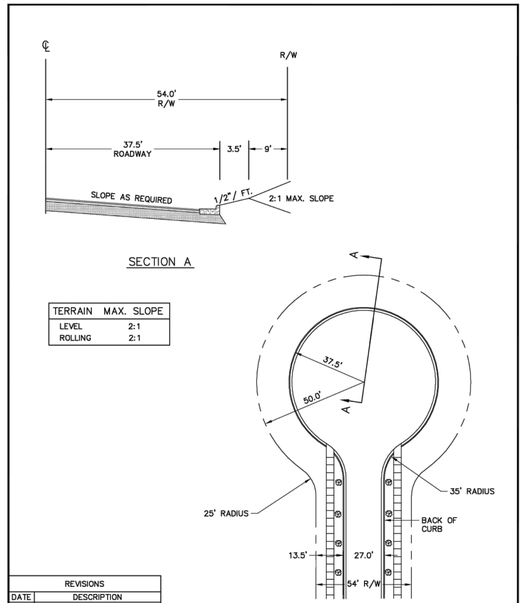
# CARRINGTON DRIVE - CROSS SECTIONS

DRAWING SHEET
**C-20.2**



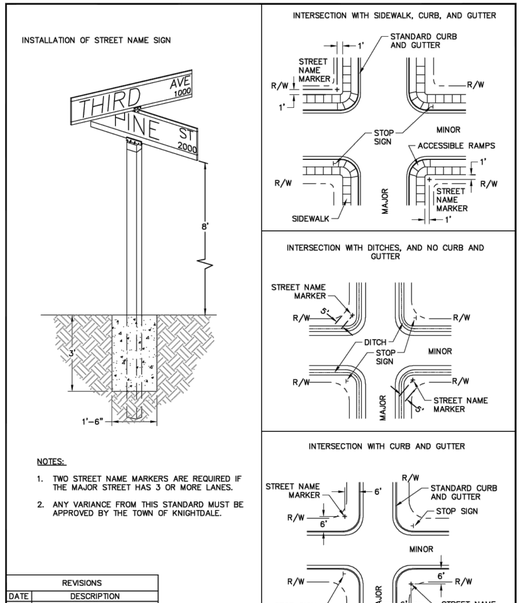

| REVISIONS | |
|---|---|
| DATE | DESCRIPTION |
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| TOWN OF KNIGHTDALE STANDARD DETAILS | ALLEY SECTION | STD. NO. 3.01 |
|---|---|---|




| REVISIONS | |
|---|---|
| DATE | DESCRIPTION |
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| TOWN OF KNIGHTDALE STANDARD DETAILS | CUL DE SAC SECTION | STD. NO. 3.08 |
|---|---|---|

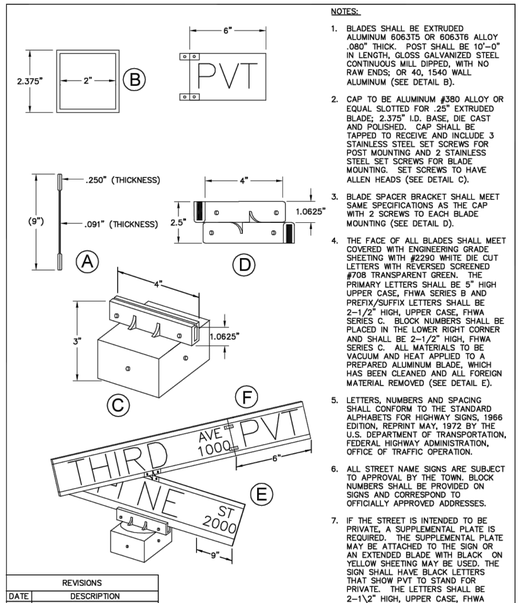



NOTES:

1. TWO STREET NAME MARKERS ARE REQUIRED IF THE MAJOR STREET HAS 3 OR MORE LANES.
2. ANY VARIANCE FROM THIS STANDARD MUST BE APPROVED BY THE TOWN OF KNIGHTDALE.

| REVISIONS | |
|---|---|
| DATE | DESCRIPTION |
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| TOWN OF KNIGHTDALE STANDARD DETAILS | STREET NAME SIGN INSTALLATION LOCATIONS | STD. NO. 3.16 |
|---|---|---|

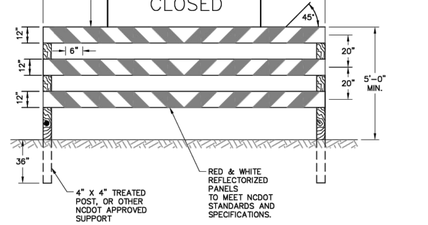



NOTES:

1. BLADES SHALL BE EXTRUDED ALUMINUM 6063T5 OR 6063T6 ALLOY .080" THICK. POST SHALL BE 10'-0" IN LENGTH. GLOSS GALVANIZED STEEL CONTINUOUS MILL DIPPED, WITH NO RAW ENDS; OR 40, 1540 WALL ALUMINUM (SEE DETAIL B).
2. CAP TO BE ALUMINUM #380 ALLOY OR EQUAL SLOTTED FOR .25" EXTRUDED BLADE; 2.375" I.D. BASE, DIE CAST AND POLISHED. CAP SHALL BE TAPPED TO RECEIVE AND INCLUDE 3 STAINLESS STEEL SET SCREWS FOR POST MOUNTING AND 2 STAINLESS STEEL SET SCREWS FOR BLADE MOUNTING. SET SCREWS TO HAVE ALLEN HEADS (SEE DETAIL C).
3. BLADE SPACER BRACKET SHALL MEET SAME SPECIFICATIONS AS THE CAP WITH 2 SCREWS TO EACH BLADE MOUNTING (SEE DETAIL D).
4. THE FACE OF ALL BLADES SHALL MEET COVERED WITH ENGINEERING GRADE SHEETING WITH #2290 WHITE DIE CUT LETTERS WITH REVERSED SCREENED #708 TRANSPARENT GREEN. THE PRIMARY LETTERS SHALL BE 5" HIGH UPPER CASE, FHWA SERIES B AND PREFIX/SUFFIX LETTERS SHALL BE 2-1/2" HIGH, UPPER CASE, FHWA SERIES C. BLOCK NUMBERS SHALL BE PLACED IN THE LOWER RIGHT CORNER AND SHALL BE 2-1/2" HIGH, FHWA SERIES C. ALL MATERIALS TO BE VACUUM AND HEAT APPLIED TO A PREPARED ALUMINUM BLADE, WHICH HAS BEEN CLEANED AND ALL FOREIGN MATERIAL REMOVED (SEE DETAIL E).
5. LETTERS, NUMBERS AND SPACING SHALL CONFORM TO THE STANDARD ALPHABETS FOR HIGHWAY SIGNS, 1966 EDITION, REPRINT MAY, 1972 BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, OFFICE OF TRAFFIC OPERATION.
6. ALL STREET NAME SIGNS ARE SUBJECT TO APPROVAL BY THE TOWN. BLOCK NUMBERS SHALL BE PROVIDED ON SIGNS AND CORRESPOND TO OFFICIALLY APPROVED ADDRESSES.
7. IF THE STREET IS INTENDED TO BE PRIVATE, A SUPPLEMENTAL PLATE IS REQUIRED. THE SUPPLEMENTAL PLATE MAY BE ATTACHED TO THE SIGN OR AN EXTENDED BLADE WITH BLACK ON YELLOW SHEETING MAY BE USED. THE SIGN SHALL HAVE BLACK LETTERS THAT SHOW PVT TO STAND FOR PRIVATE. THE LETTERS SHALL BE 2-1\2" HIGH, UPPER CASE, FHWA SERIES C, ON A BACKGROUND OF YELLOW ENGINEERING GRADE SHEETING. (SEE DETAIL F).

| REVISIONS | |
|---|---|
| DATE | DESCRIPTION |
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| TOWN OF KNIGHTDALE STANDARD DETAILS | STREET NAME SIGN | STD. NO. 3.17 |
|---|---|---|

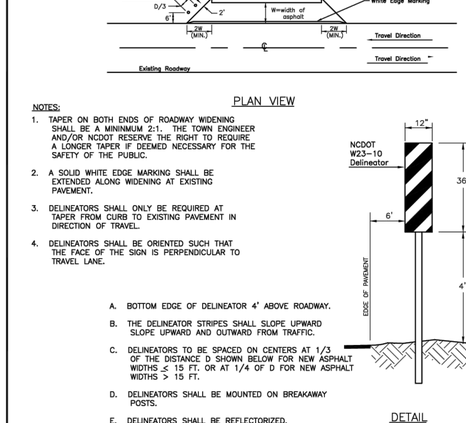



NOTES:

1. BARRICADE(S) TO BE ERECTED ACROSS ENTIRE ROADWAY INCLUDING CURB & GUTTER.
2. ADVANCE WARNING SIGN W14-1 (DEAD END) SHALL BE PLACED JUST AFTER LAST INTERSECTING STREET.
3. MARKINGS FOR BARRICADE RAILS SHALL BE REFLECTIVE AND ALTERNATE RED AND WHITE STRIPS.
4. "ROAD CLOSED" SIGN SHALL MEET SPECIFICATIONS OF M.U.T.C.D R11-2 AND BE REQUIRED ATOP EACH BARRICADE USED.

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| TOWN OF KNIGHTDALE STANDARD DETAILS | TEMPORARY BARRICADE FOR DEAD END ROADS | STD. NO. 3.18 |
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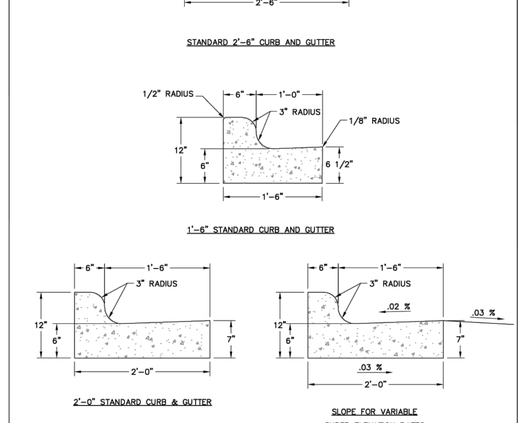

NOTES:

1. TAPER ON BOTH ENDS OF ROADWAY WIDENING SHALL BE A MININMUM 2:1. THE TOWN ENGINEER AND/OR NCDOT RESERVE THE RIGHT TO REQUIRE A LONGER TAPER IF DEEMED NECESSARY FOR THE SAFETY OF THE PUBLIC.
2. A SOLID WHITE EDGE MARKING SHALL BE EXTENDED ALONG WIDENING AT EXISTING PAVEMENT.
3. DELINEATORS SHALL ONLY BE REQUIRED AT TAPER FROM CURB TO EXISTING PAVEMENT IN DIRECTION OF TRAVEL.
4. DELINEATORS SHALL BE ORIENTED SUCH THAT THE FACE OF THE SIGN IS PERPENDICULAR TO TRAVEL LANE.

A. BOTTOM EDGE OF DELINEATOR 4' ABOVE ROADWAY.
B. THE DELINEATOR STRIPES SHALL SLOPE UPWARD SLOPE UPWARD AND OUTWARD FROM TRAFFIC.
C. DELINEATORS TO BE SPACED ON CENTERS AT 1/3 OF THE DISTANCE D SHOWN BELOW FOR NEW ASPHALT WIDTHS ≤ 15 FT. OR AT 1/4 OF D FOR NEW ASPHALT WIDTHS > 15 FT.
D. DELINEATORS SHALL BE MOUNTED ON BREAKAWAY POSTS.
E. DELINEATORS SHALL BE REFLECTORIZED.

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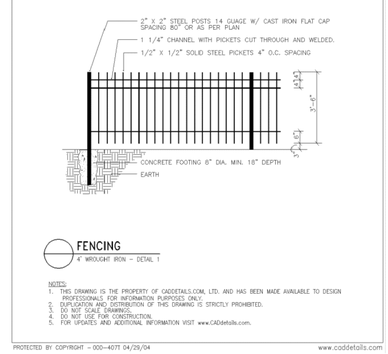
| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD PAVEMENT WIDENING TAPER AND MARKINGS | STD. NO. 3.19 |
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1 of 3

| TOWN OF KNIGHTDALE STANDARD DETAILS | CURB AND GUTTER | STD. NO. 4.01 |
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## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #S-5067

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
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NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT
SEAL

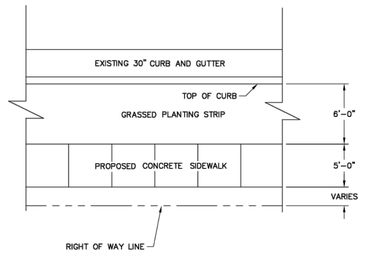
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
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| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

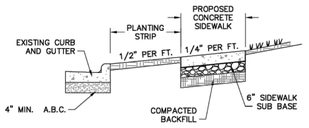
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**SITE DETAILS**

DRAWING SHEET
**D-1.0**




PLAN VIEW




TYPICAL SECTION

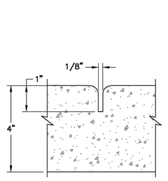
NOTES:

1. TRANSVERSE EXPANSION JOINTS TO BE A MAXIMUM OF 50 FEET APART.
2. CONTROL JOINTS TO BE AT 5 FEET O.C.
3. ALL CONCRETE TO BE FINISHED WITH CURING COMPOUND.
4. SIDEWALK SUB BASE TO BE A MIXTURE OF 70 PERCENT #57 STONE AND ASTM C33 SAND OR EQUAL.

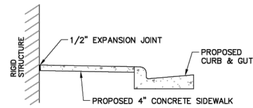
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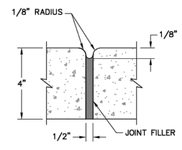
| TOWN OF KNIGHTDALE STANDARD DETAILS | CONCRETE SIDEWALKS | STD. NO. 4.04 |
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GROOVE JOINT IN SIDEWALK




DETAILS SHOWNG EXPANSION JOINTS IN CONCRETE SIDEWALK




TRANSVERSE EXPANSION JOINT IN SIDEWALK

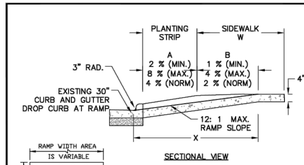
NOTES:

1. A GROOVE JOINT 1" DEEP WITH 1/8" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 45' INTERVALS NOT TO EXCEED 50' AND MATCHING EXPANSION/CONSTRUCTION JOINT IN ADJACENT CURB. A SEALED 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
2. SIDEWALK AT DRIVEWAY ENTRANCES TO BE 6" THICK.
3. WIDTH OF SIDEWALK ON THOROUGHFARE STREETS SHALL BE A MINIMUM OF 5'. WIDTH OF SIDEWALKS IN THE CENTRAL BUSINESS DISTRICT WILL BE DETERMINED BY THE TOWN ENGINEER.
4. WIDTH OF SIDEWALKS ON NON-THOROUGHFARE STREETS SHALL BE A MINIMUM OF 5' UNLESS OTHERWISE SPECIFIED BY THE TOWN'S UNIFIED DEVELOPMENT ORDINANCE.
5. SIDEWALK TO BE POURED TO END OF RADIUS AT INTERSECTING STREETS.
6. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 PSI IN 28 DAYS.

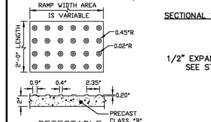
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| TOWN OF KNIGHTDALE STANDARD DETAILS | CONCRETE SIDEWALKS | STD. NO. 4.04 |
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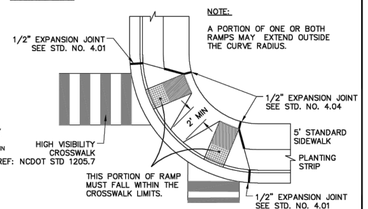



SECTIONAL VIEW

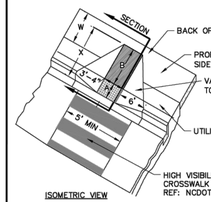



DETECTABLE WARNING DOMES

ALTERNATE MATERIAL MAY BE SUBSTITUTED, PROVIDED THE PRODUCT IS ON THE TOWN'S APPROVED MANUFACTURER LIST AND THE MANUFACTURER'S PRODUCT AND INSTALLATION SPECIFICATIONS ARE FOLLOWED.




PLAN VIEW




ISOMETRIC VIEW

| W | A | W+A+9" | X | B |
|---|---|---|---|---|
| 5' | 0.0' | 5.8' | 5.8' | 5.0' * |
| 6' | 0.0' | 6.8' | 6.8' | 6.0' * * |
| 7' | 0.0' | 7.8' | 7.3' | 6.5' * * |
| 8' | 0.0' | 8.8' | 7.3' | 6.5' * * |
| 5' | 2.0' | 7.8' | 7.8' | 5.0' |
| 5' | 2.5' | 8.3' | 8.1' | 4.8' |
| 5' | 3.0' | 8.8' | 8.3' | 4.4' |
| 5' | 3.5' | 9.3' | 8.4' | 4.1' |
| 5' | 4.0' | 9.8' | 8.6' | 3.8' |
| 5' | 4.5' | 10.3' | 8.7' | 3.4' |
| 5' | 5.0' | 10.8' | 8.9' | 3.1' |

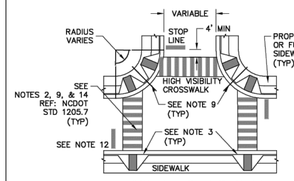
B = X – (A + 9")
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES
* * BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES OF 0.04.

DIMENSION SCHEDULE

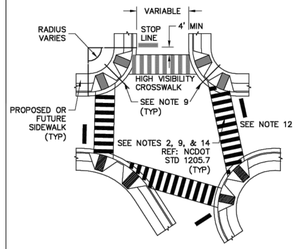
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| TOWN OF KNIGHTDALE STANDARD DETAILS | WHEELCHAIR RAMP CURB CUT | STD. NO. 4.06 |
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TYPICAL WHEELCHAIR RAMPS AND CROSSWALKS AT TEE INTERSECTIONS




TYPICAL WHEELCHAIR RAMPS AND CROSSWALKS AND STOP LINES

NOTES:

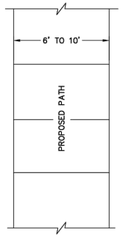
3. NC GEN. ST. 136-44.14 REQUIRES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED SHALL INCLUDE WHEELCHAIR RAMPS AT ALL INTERSECTIONS AND OTHER POINTS OF PEDESTRIAN TRAFFIC.

   WHEELCHAIR RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE TOWN. LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE TOWN TO AVOID POWER POLES, FIRE HYDRANTS, STORM INLETS, ETC. NO LESS THAN TWO (2) FEET OF FULL HEIGHT CURB SHALL BE PLACED BETWEEN THE RAMPS.
5. NO SLOPE ON THE WHEELCHAIR RAMP SHALL EXCEED 1" PER FOOT (12:1 OR 8.33%) IN RELATIONSHIP TO THE GRADE OF THE STREET.
6. THE WHEELCHAIR RAMP SHALL BE A MINIMUM OF 40" (3'-4") WIDE.
7. CONCRETE SHALL BE A MINIMUM OF 3000 P.S.I. AND FINISHED WITH A NON-SKID SURFACE.
8. AN EXPANSION JOINT OF 1/2" SHALL BE PLACED AT THE JOINT BETWEEN THE WHEELCHAIR RAMP AND THE CURB OR SIDEWALK.
9. THE INSIDE PEDESTRIAN CROSSWALK LINES SHALL BE SET NO CLOSER INTO THE INTERSECTION THAN WOULD BE ESTABLISHED BY BISECTING THE CURB RADII.
10. THE CURB CUTS AND THE PEDESTRIAN CROSSWALK LINES SHALL BE COORDINATED SO THAT THE BEGINNING OF THE WHEELCHAIR RAMP WILL FALL COMPLETELY WITHIN THE CROSSWALK LINES.
11. THE MINIMUM WIDTH OF THE PEDESTRIAN CROSSWALKS SHALL BE 5'-0".
12. STOP LINES SHALL BE PLACED AS SHOWN TO INDICATE THE POINT AT WHICH VEHICLES MUST COME TO A STOP. THIS POINT SHALL BE A MINIMUM OF 4'-0" FROM THE PEDESTRIAN CROSSWALK.
13. PARKING SHALL NOT BE ALLOWED WITHIN 20' OF PEDESTRIAN CROSSWALKS.
14. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD. ALL PAVEMENT MARKINGS SHALL CONFORM WITH NC DOT SPECIFICATIONS SECTIONS 920 AND 1087.
15. ALL STOP BARS SHALL BE 4 FEET BEHIND EDGE OF CROSSWALK.

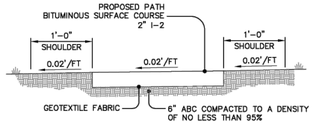
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| TOWN OF KNIGHTDALE STANDARD DETAILS | WHEELCHAIR RAMP CURB CUT | STD. NO. 4.06 |
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PLAN VIEW



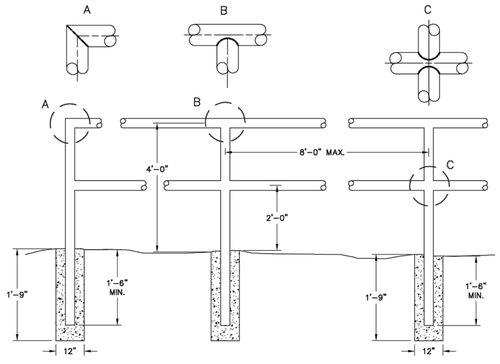

TYPICAL SECTION

NOTES:

1. CROSS SLOPE DIRECTION VARIES. SEE LAYOUT PLANS FOR DIRECTION OF SLOPE.
2. CONTRACTOR IS RESPONSIBLE FOR REESTABLISHING ALL SLOPES DISTURBED BY CONSTRUCTION.

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| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD MULTI-USE PATH GREENWAY | STD. NO. 4.09 |
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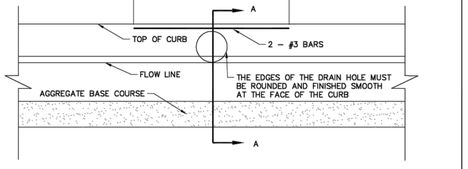


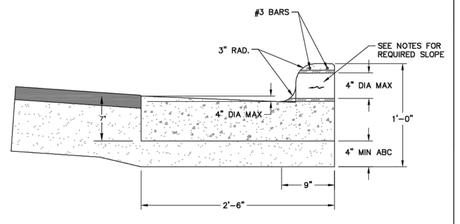

NOTES:

1. ALL CONCRETE TO BE 3600 PSI COMPRESSIVE STRENGTH.
2. TYPE OF PIPE TO BE USED IS 1-5/8" MAX. O.D. BLACK IRON, LOW CARBON PIPE.
3. ALL JOINTS TO HAVE A 1/2" FILLET WELD.
4. AFTER INSTALLATION, PAINT ASSEMBLY WITH BLACK ALL WEATHER ENAMEL.
5. TO BE USED AS REQUIRED BY THE TOWN ENGINEER.

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| TOWN OF KNIGHTDALE STANDARD DETAILS | TYPICAL HANDRAIL | STD. NO. 4.13 |
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SECTION A-A

NOTES:

1. CURB DRAINS SHALL NOT BE CONSTRUCTED WITHIN 10' OF CONTRACTION OR EXPANSION JOINTS.
2. OPENING GRADE MAY VARY BETWEEN A MAXIMUM SLOPE OF 1/2" PER FT AND A MINIMUM OF 1/4" PER FT.
3. MORE THAN ONE HOLE MAY BE INSTALLED PROVIDED THE HOLES ARE LOCATED WITH 18" SPACING.

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| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD CURB DRAIN | STD. NO. 4.02 |
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## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #S-5067

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

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BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
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NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION | SCALE | AS SHOWN |
|---|---|---|---|
| | | DESIGNED BY | JWL |
| | | DRAWN BY | SRG |
| | | CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**SITE DETAILS**

DRAWING SHEET

**D-1.1**

**105 OF 112**

106 OF 112

DRAWING SHEET
D-1.2

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**SITE DETAILS**

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| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

STRONGROCK
ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

SEAL:




| No. | REVISIONS | DATE | BY |
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PROGRESS PLOT DATE: 1/16/2024

107 OF 112

DRAWING SHEET
D-1.3

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**SITE DETAILS**

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| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |


STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


SEAL:




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PROGRESS PLOT DATE: 1/16/2024

108 OF 112

DRAWING SHEET
D-1.4

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**SITE DETAILS**

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| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |


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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM


SEAL:

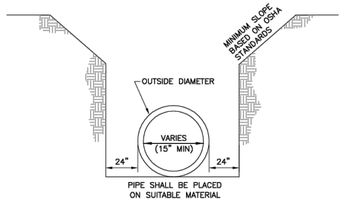



| No. | REVISIONS | DATE | BY |
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PROGRESS PLOT DATE: 1/16/2024

NOTES:

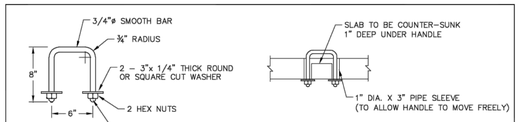
1. A MINIMUM OF 24" FROM OUTSIDE DIAMETER OF PIPE TO SIDE OF TRENCH MUST BE ALLOWED FOR COMPACTION OF FILL MATERIAL. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER THE PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE PLACED IN LAYERS NOT TO EXCEED 6", UNDER NO CIRCUMSTANCES SHALL WATER BE PERMITTED TO RISE IN UNBACKFILLED TRENCHES AFTER THE PIPE HAS BEEN PLACED. COMPACTION REQUIREMENTS SHALL BE ATTAINED BY THE USE OF MECHANICAL TAMPS ONLY. EACH AND EVERY LAYER OF BACKFILL SHALL BE PLACED LOOSE AND THOROUGHLY COMPACTED INTO PLACE.
2. ALL BACKFILL MATERIAL SHALL HAVE AN IN PLACE COMPACTED DENSITY OF AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY.
3. THE FINAL 24" OF BACKFILL MATERIAL SHALL BE COMPACTED TO 100% OF THE STANDARD PROCTOR MAXIMUM DENSITY.
4. ALL TRENCHING OPERATIONS SHALL MEET OSHA STANDARDS.
5. BACKFILL MATERIAL BENEATH ROADWAY SHALL BE SELECT BACKFILL MATERIAL.



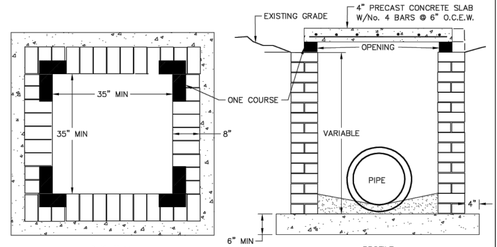

PIPE SHALL BE PLACED ON SUITABLE MATERIAL

| REVISIONS | |
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| DATE | DESCRIPTION |
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|---|---|---|
| TOWN OF KNIGHTDALE STANDARD DETAILS | TRENCH FOR STORM DRAIN PIPES | STD. NO. 5.02 |



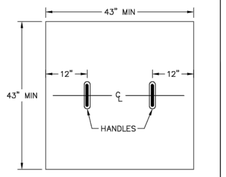

DETAIL OF HANDLE




PLAN VIEW PROFILE

NOTES:

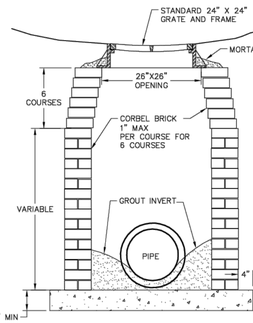
1. EITHER SOLID BRICK, SOLID BLOCK OR PRECAST CONRETE MAY BE USED.
2. PRECAST CONCRETE WALLS SHALL BE 6" THICK MINIMUM.
3. ALL CONCRETE SHALL BE 3000 P.S.I.
4. FOR 24" PIPE AND LARGER USE PIPE DIA. PLUS 12" AS INSDE DIMENSIONS.




PRECAST CONCRETE SLAB

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|---|---|
| DATE | DESCRIPTION |
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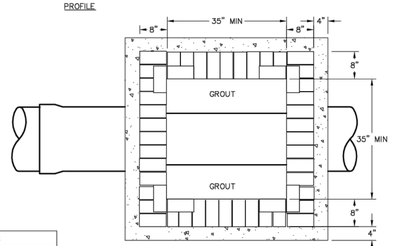
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|---|---|---|
| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD YARD INLET WITH CONCRETE SLAB | STD. NO. 5.03 |




PROFILE

NOTES:

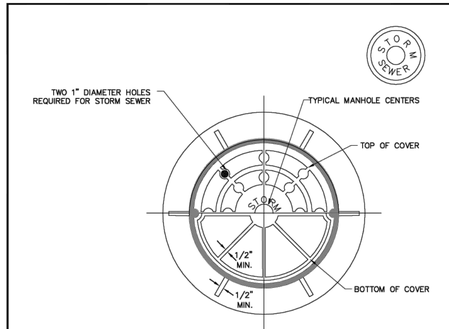
1. EITHER SOLID BRICK, SOLID BLOCK, OR PRECAST CONRETE MAY BE USED.
2. PRECAST CONCRETE WALLS SHALL BE 6" THICK MINIMUM.
3. ALL CONCRETE SHALL BE 3000 P.S.I.
4. FOR 24" PIPE AND LARGER USE PIPE DIA. PLUS 12" AS INSDE DIMENSIONS.



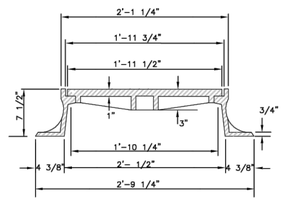

PLAN VIEW

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| DATE | DESCRIPTION |
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| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD DROP INLET WITH GRATE AND FRAME | STD. NO. 5.04 |




PLAN VIEW

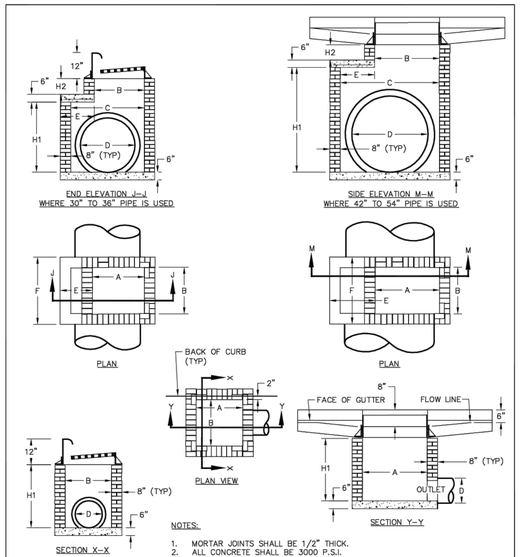



SECTION

| MINIMUM AVERAGE WEIGHT | |
|---|---|
| RING | 190 |
| COVER | 120 |
| TOTAL | 310 |

| REVISIONS | |
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| DATE | DESCRIPTION |
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|---|---|---|
| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD MANHOLE RING & COVER | STD. NO. 5.10 |



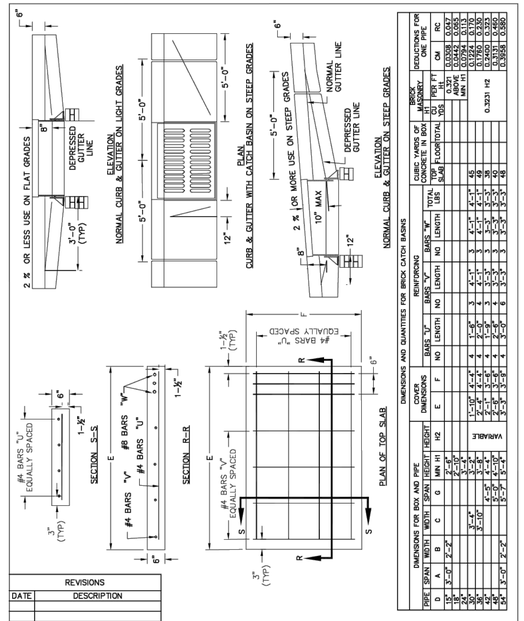

NOTES:

1. MORTAR JOINTS SHALL BE 1/2" THICK.
2. ALL CONCRETE SHALL BE 3000 P.S.I.
3. BASE SLABS SHALL BE FORMED PRIOR TO PLACING OF CONCRETE.
4. USETYPE "A" GRATE AT SAG POINTS, OTHERWISE USE TYPE "B" OR "C" FOR THE APPROPRIATE FLOW DIRECTION.
5. MASONRY UNITS MAY BE JUMBO BRICK, CONCRETE BRICK OR SOLID CONCRETE BLOCK.
6. ALL WALLS GREATER THAN 6' IN DEPTH SHALL BE CONSTRUCTED 12" THICK

| REVISIONS | |
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| DATE | DESCRIPTION |
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1 of 2

| | | |
|---|---|---|
| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD CURB INLET | STD. NO. 5.05 |




DIMENSIONS FOR BOX AND PIPE

| PIPE DIA | SPAN A | WIDTH B | WIDTH C | SPAN G | HEIGHT MIN H1 | HEIGHT H2 |
|---|---|---|---|---|---|---|
| 15" | 2'-0" | 2'-2" | | 2'-4" | 2'-10" | VARIABLE |
| 24" | 3'-0" | | | 3'-4" | 3'-10" | |
| 30" | 3'-6" | | 3'-4" | 3'-10" | 4'-4" | |
| 36" | 4'-0" | | | 4'-4" | 4'-10" | |
| 42" | 4'-6" | | | 4'-10" | 5'-4" | |
| 48" | 5'-0" | | 4'-10" | 5'-4" | 5'-10" | |
| 54" | 5'-6" | | | 5'-4" | 6'-4" | |

DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASINS

| COVER DIMENSIONS F | REINFORCING BARS "L" NO | REINFORCING BARS "L" LENGTH | REINFORCING BARS "V" NO | REINFORCING BARS "V" LENGTH | REINFORCING BARS "H" NO | REINFORCING BARS "H" LENGTH | REINFORCING TOTAL LBS | CUBIC YARDS OF CONCRETE IN BOX SLAB | CUBIC YARDS OF CONCRETE IN BOX FLOOR | TOTAL | BRICK MASONRY 1 BOX | PER FT ADJ'S ANGLE MIN 11½ | DEFLECTIONS FOR ONE PIPE CM | DEFLECTIONS FOR ONE PIPE RC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1'-10" | 4 | 1'-4" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | 0.3231 H2 | 0.0194 | 0.0194 | 0.0194 |
| 2'-4" | 4 | 2'-0" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | | 0.0194 | 0.0194 | 0.0194 |
| 2'-10" | 4 | 2'-6" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | | 0.0194 | 0.0194 | 0.0194 |
| 3'-4" | 4 | 3'-0" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | | 0.0194 | 0.0194 | 0.0194 |
| 3'-10" | 4 | 3'-6" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | | 0.0194 | 0.0194 | 0.0194 |
| 4'-4" | 4 | 4'-0" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | | 0.0194 | 0.0194 | 0.0194 |
| 4'-10" | 4 | 4'-6" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | | 0.0194 | 0.0194 | 0.0194 |
| 5'-4" | 4 | 5'-0" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | | 0.0194 | 0.0194 | 0.0194 |
| 5'-10" | 4 | 5'-6" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | | 0.0194 | 0.0194 | 0.0194 |
| 6'-4" | 4 | 6'-0" | 4 | 1'-4" | 3 | 4'-1" | 4'-11" | 1.45 | 0.49 | 1.94 | | 0.0194 | 0.0194 | 0.0194 |

2 of 2

| | | |
|---|---|---|
| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD CURB INLET | STD. NO. 5.05 |

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #S-5067

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK. CITY OF RALEIGH PUBLIC. CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #W-3942

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

SEAL

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

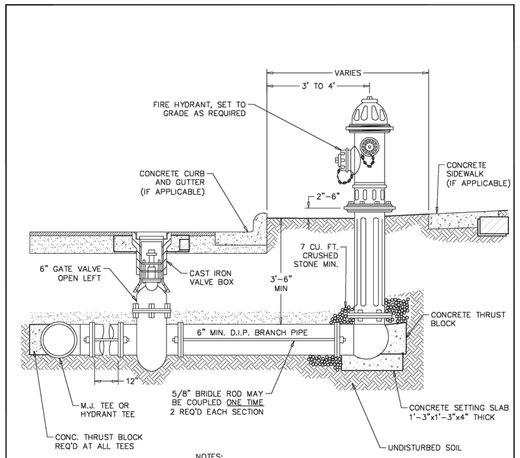
| | |
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| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**STORM DETAILS**

DRAWING SHEET

**D-2.0**




NOTES:

HYDRANTS SHALL BE EQUIPPED WITH ONE 5" STORZ NOZZLE AND TWO 2-1/2" NOZZLES WITH NATIONAL STANDARD THREADS.

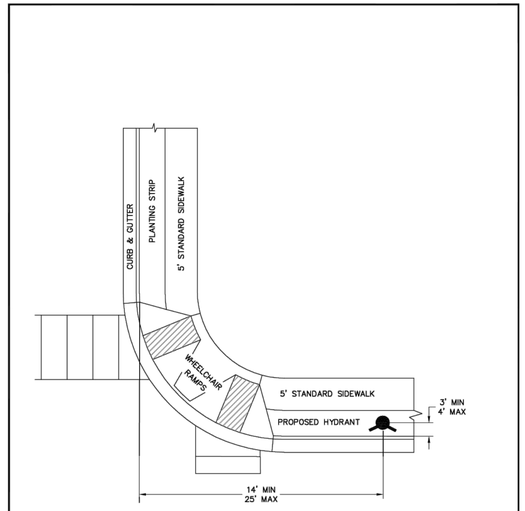
CONCRETE BLOCKING SHALL BE POURED SO AS TO LEAVE ALL FITTING BOLTS AND FLANGES EXPOSED.

IF HYDRANT IS LOCATED IN RURAL AREA, HYDRANT SHALL BE LOCATED APPROX. 1' INSIDE R/W.

IF HYDRANT IS LOACTED IN DOT R/W, USE DOT STANDARDS FOR LOCATION OF HYDRANT.

| REVISIONS | |
|---|---|
| DATE | DESCRIPTION |
| 7/08 | CORRECTED NOZZLE SIZE & TYPE |
| | |
| | |

| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD HYDRANT INSTALLATION - URBAN | STD. NO. 6.02 |
|---|---|---|




| REVISIONS | |
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| DATE | DESCRIPTION |
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| TOWN OF KNIGHTDALE STANDARD DETAILS | STANDARD HYDRANT LOCATION | STD. NO. 6.03 |
|---|---|---|

**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

## SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT #S-5067

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH DEVELOPMENT APPROVAL _____

RALEIGH WATER REVIEW OFFICER _____

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
|---|---|
| STRONG ROCK PROJECT | NOT FOR CONSTRUCTION |
| SCALE | AS SHOWN |
| DESIGNED BY | JWL |
| DRAWN BY | SRG |
| CHECKED BY | JWL |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

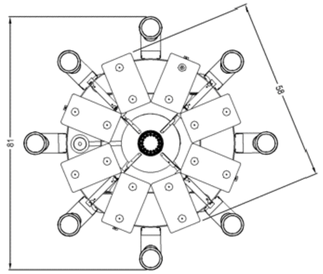
**WATER DETAILS**

DRAWING / SHEET

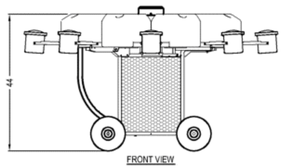
**D-3.0**

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www.aquamasterfountains.com

MASTER THE **POWER** AND **BEAUTY** OF WATER




TOP VIEW




FRONT VIEW

NOTES:
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2. DO NOT SCALE DRAWING.
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4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 011-003.

## MASTERS SERIES
7.5 - 10 HP FLOAT DIMENSIONS

011-003 REVISION DATE 06/12/2017

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www.aquamasterfountains.com

MASTER THE **POWER** AND **BEAUTY** OF WATER

**BOTTOM ANCHORING FOR 7.5-10 HP MASTERS**

CAUTION: IF THE UNIT IS NOT PROPERLY ANCHORED WITH ADEQUATE TENSION, THE UNIT WILL ROTATE WHEN IN OPERATION, RESULTING IN TWISTED AND DAMAGED ELECTRICAL CABLE(S).

IN A LARGER BODY OF WATER OR WHERE VANDALISM IS A CONCERN, BOTTOM ANCHORING IS THE PREFERRED METHOD.

REQUIRED EQUIPMENT (NOT PROVIDED):

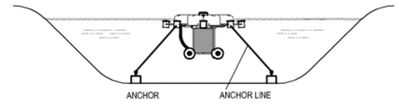
TWO (2) ANCHOR LINES (1/4 INCH NYLON, 1/8" STAINLESS STEEL CABLE OR EQUIVALENT). ANCHOR LINE LENGTH SHOULD EQUAL TWICE THE DEPTH OF THE POND AT POINT OF INSTALLATION. (EXAMPLE, IF POND DEPTH IS EIGHT FEET, EACH ANCHOR LINE SHOULD BE AT LEAST SIXTEEN FEET.) IF THE DEPTH OF THE POND VARIES MORE THAN THREE FEET, USE BOTTOM ANCHORING.

TWO (2) ANCHORS (EIGHT INCH CONCRETE BLOCKS, APPROXIMATE WEIGHT OF 30 POUNDS EACH IS SUFFICIENT).

ANCHORING STEPS

1. WITH UNIT FULLY ASSEMBLED AND STILL ON SHORE, ATTACH ANCHOR LINES TO THE FLOAT. ONLY USE THE ANCHOR HOLES WHICH ARE OPPOSITE FROM ONE ANOTHER. NEXT, CAREFULLY LOWER UNIT INTO THE POND. DO NOT TANGLE ANCHOR LINES AND ELECTRICAL CABLE(S).

2. POSITION UNIT AT DESIRED LOCATION IN POND, PLAYING OUT ELECTRICAL CABLE(S) FROM SHORE. ATTACH ANCHOR LINES TO ANCHORS AND ANCHOR UNIT MAKING SURE YOU CANNOT ROTATE UNIT MORE THAN 45 DEGREES. SOME MOVEMENT IS NECESSARY TO ALLOW FLOAT TO MOVE UP AND DOWN WITH CHANGES IN WATER DEPTH. IF YOU CAN ROTATE FLOAT MORE THAN 45 DEGREES, ADJUST ANCHOR LINES OR RELOCATE ANCHORS.




NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 011-004.

## MASTERS SERIES
7.5 - 10 HP BOTTOM ANCHORING DETAILS

011-004 REVISION DATE 06/12/2017

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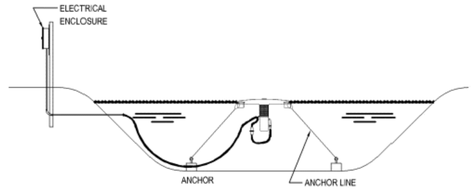
**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

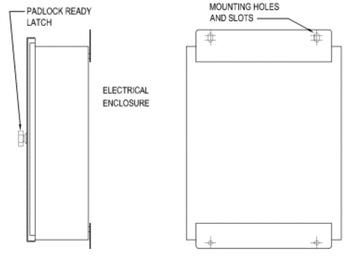
BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

AQUAMASTER FOUNTAINS AND AERATORS
16024 CTH X
KIEL, WI 53024
1-800-693-3144
PHONE: (920) 693-3121
FAX: (920) 693-3634
www.aquamasterfountains.com



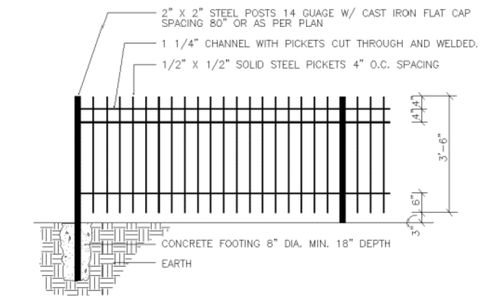

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## MASTERS SERIES®
ELECTRICAL PANEL INSTALLATION DETAILS

011-014

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NOTES:
- ALL METAL TO BE DEGREASED, PHOSPHATIZED WITH RUST RETARDANT UNDERCOAT AND DIP COATED WITH TWO COATS OF INDUSTRIAL GRADE FLAT BLACK ENAMEL.




## FENCING
4' WROUGHT IRON – DETAIL 1

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SEAL: NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

| | |
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| STRONG ROCK PROJECT | |
| NOT FOR CONSTRUCTION | |
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| DRAWN BY | SRG |
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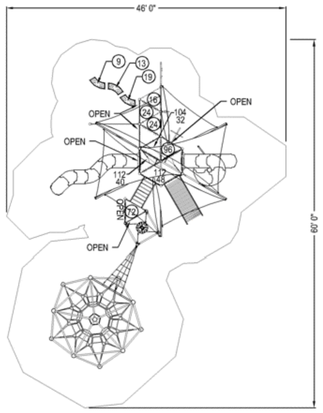
KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**LANDSCAPE & AMENITIES DETAILS**

DRAWING SHEET
**D-4.0**

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TOP VIEW

SCALE IN FEET
0 5 10

**SPECIFICATIONS:**
**TOTAL AREA:** 1653 SQ. FT.
**PERIMETER:** 198 FT.

NOTES:
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## SCHOOL AGED PLAYGROUNDS

NU-2891

208-1112 REVISION DATE 06/10/2020

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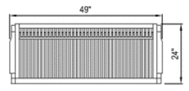


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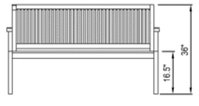
ISOMETRIC VIEW




TOP VIEW




SIDE ELEVATION




FRONT ELEVATION

MANUFACTURER NOTES:
1. PLEASE CONTACT MANUFACTURER FOR FABRIC AND COLOR OPTIONS.

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## LAGUNA

LAGUNA 5' BENCH ( 13811 )

4773-018 REVISION DATE 04/01/2018

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**A. TOWN CERTIFICATION .** THIS DESIGN HAS BEEN REVIEWED BY THE ENGINEER FOR THE TOWN OF KNIGHTDALE, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF , IT CONFORMS TO THE REQUIREMENTS ESTABLISHED IN THE STANDARD SPECIFICATIONS OF THE TOWN OF KNIGHTDALE.

BY: _____ DATE: _____
TOWN ENGINEER

THESE PLANS ARE APPROVED BY THE TOWN OF KNIGHTDALE AND SERVE AS CONSTRUCTION PLANS FOR THIS PROJECT.

BY: _____ DATE: _____
LAND USE ADMINISTRATOR

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

NORTH CAROLINA PROFESSIONAL SEAL 036225 ENGINEER JOSHUA W. LAMBERT
SEAL

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| | DESIGNED BY | JWL | |
| | DRAWN BY | SRG | |
| | CHECKED BY | JWL | |

KNIGHTDALE - CREEKVIEW CROSSING
TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

**LANDSCAPE & AMENITIES DETAILS**

DRAWING SHEET
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