SYMBOLS AND ABBREVIATIONS

				The <i>Construction Contractor</i> 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
ABC	AGGREGATE BASE COURSE		EXISTING CURB INLET EXISTING GRATE INLET/YARD INLE	least <i>twenty four hours</i> prior to beginning any of their construction.
ALUM	ALUMINUM		EXISTING GRATE INLET TARD INLE	<i>Failure</i> to notify both <i>City Departments</i> in advance of beginning
AST2	ALUMINIZED STEEL - TYPE 2	-0-	EXISTING FIRE HYDRANT	construction, will result in the issuance of <i>monetary fines</i> , and require
В-В	ВАСК ТО ВАСК		EXISTING BLOW-OFF ASSEMBLY	reinstallation of any water or sewer facilities not inspected as a result
BOA	BLOW-OFF ASSEMBLY	\bowtie	EXISTING GATE VALVE	of this notification failure.
C&G	CURB AND GUTTER	⊳	EXISTING REDUCER	Failure to call for Inspection, Install a Downstream Plug, have
CFS	CUBIC FEET PER SECOND		EXISTING WATER METER	Domitted Diang on the Johaite on any other Violation of City of
CI	CURB INLET	S	EXISTING SAN SEWER MANHOLE	Raleigh Standards will result in a Fine and Possible Exclusion from TOWN C
CL	CENTER LINE	0	EXISTING CLEAN OUT	future work in the <i>City of Raleigh</i> .
CMP	CORRUGATED METAL PIPE	\sim	EXISTING POWER POLE	
			EXISTING TELEPHONE PEDESTAL	
CO	CLEAN OUT	÷	EXISTING AREA LIGHT EXISTING SIGN	
СОМ	COMMUNICATION		NEW CURB INLET	
CONC	CONCRETE		NEW GRATE INLET/YARD INLET	NOTE: ALL CONSTRUCTION ACTIVITY MUST BE
DCV	DOUBLE CHECK VALVE	-	NEW FLARED END SECTION	IN ACCORDANCE WITH THE ACCEPTED
DDCV	DOUBLE DETECTOR CHECK VALVE		NEW FIRE HYDRANT	POLICIES OF THE TOWN OF KNIGHTDALE AND
DI	DROP INLET	M •	NEW BLOW-OFF ASSEMBLY	NCDOT
DIP	DUCTILE IRON PIPE	M	NEW GATE VALVE	
EASE	EASEMENT	►	NEW REDUCER	EROSION CONTROL, STORMWATER
			NEW WATER METER	AND FLOODPLAIN MANAGEMENT
ELEC	ELECTRIC	171	NEW TEE	
EX	EXISTING		NEW PLUG	APPROVED
FES	FLARED END SECTION	\bullet	NEW MANHOLE	EROSION CONTROL 🗌 S
FH	FIRE HYDRANT	۲	NEW CLEAN OUT	STORMWATER MGMT. S
FM	FORCE MAIN	•	NEW SIGN	FLOOD STUDY S
FT	FEET	Å	IRON PIPE BENCHMARK	DATE
FT/SEC	FEET PER SEC	$\mathbf{\Psi}$	BENCHWARK	
GALV	GALVANIZED		TEMP SILT FENCE	ENVIRONMENTAL CONSULTANT SIGNATURE
GV	GATE VALVE	TPF TPF	TEMP TREE PROTECTION FENCE	ERVIRONMENTAL CONSULTANT SIGNATORE
HDPE	HIGH DENSITY POLYETHYLENE		TEMP COMBINATION SILT/TREE PF	
HDFE				WATER ALLOCATION POLICY BONUS POINT CHART
L	LENGTH		TEMP DIVERSION DITCH	Points
LF	LINEAR FEET	_ • •	DISTURBED LIMITS	Base Points - Major Residential Subdivision 15
мн	MANHOLE	<u> </u>	STREAM	Bonus Point Items (Additional 35 Points required)
PAVE	PAVEMENT	G G G	EXISTING GAS LINE	Residential Architectural Standards 15
PE	FINISHED PAD ELEVATION	сом сом	EXISTING COMMUNICATIONS LINE	Development within Old Town District 4
PP	POWER POLE		EXISTING UNDERGROUND TELEPHO	IPEMA Certified Playground Equipment 4
PVC	POLYVINYL CHLORIDE			Stoffwater - Wet Fond Wy Journann 4
R	RADIUS		EXISTING UNDERGROUND ELECTRIC	Outdoor Display of Public Art 4
R/W	RIGHT-OF-WAY	OHE OHE OHE	EXISTING OVERHEAD ELECTRIC	Total Proposed Bonus Points: 35
•		w w	EXISTING WATER LINE	Total Points (50 Points Required) 50
RED	REDUCER	FM FM FM	EXISTING SANITARY SEWER FORCE	E MAIN
RCP	REINFORCED CONCRETE PIPE	ss ss	EXISTING SANITARY SEWER	QUANTITY SUMMARY
RPZ	REDUCED PRESSURE ZONE	=================	EXISTING STORM DRAINAGE	
SS	SANITARY SEWER		NEW STORM DRAINAGE	PUBLIC WATER (LF)274WATER SERVICE CONNECTIONS17
STA	STATION		· NEW WATER LINE	PUBLIC SEWER (LF) 505
TDD	TEMPORARY DIVERSION DITCH		NEW SANITARY SEWER	SANITARY SEWER SERVICE CONNECTIONS 17
TELE	TELEPHONE			PUBLIC STORM DRAINAGE (LF) 426
TSB	TEMPORARY SEDIMENT BASIN	FM FM	NEW SANITARY SEWER FORCE MA	PUBLIC STREET (LF) 246
		G G	· NEW GAS MAIN	PUBLIC SIDEWALK (LF) 823
UG		• • • • • • • • • • • • • • • •	HANDICAPPED ACCESSIBLE ROUTE	PUBLIC CURB AND GUTTER (LF) 597
WCR	WHEELCHAIR RAMP			
W/L	WATER LINE			
WM	WATER METER			NOTE: UTILITY CONNECTION PERMITS FOR THIS PROJECT WILL BE

CONSTRUCTION NOTES

YARD INLET

YI

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPALITY STANDARDS, SPECIFICATIONS, AND DETAILS, WORK IN THIS PROJECT SHALL ALSO CONFORM TO THESE PLANS. THE LATEST EDITIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROAD AND BRIDGE SPECIFICATIONS. THE ROAD AND BRIDGE STANDARDS. THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT SHALL
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TRENCH SAFETY DURING ALL PHASES OF
- THE LOCATION AND SIZE OF EXISTING UTILITIES AS SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC OR PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE NORTH CAROLINA ONE-CALL UTILITIES LOCATION SERVICE (ULOCO) AT 1-800-632-4949 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- TRAFFIC CONTROL ON PUBLIC STREETS SHALL BE IN CONFORMANCE WITH THE TRAFFIC CONTROL PLAN, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES," AND AS FURTHER DIRECTED BY CITY AND STATE INSPECTORS.
- ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE MEETING WITH THE CITY ENGINEERING DIVISION.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION
- ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND APPLICABLE MUNICIPALITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION. CONSERVATION. AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURES, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AS SET OUT IN ASTM STANDARD D698. STONE BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST AS SET OUT IN ASTM STANDARD THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY.

- ISSUED BY THE TOWN OF KNIGHTDALE ONLY AFTER A DRAFT OF THE PLAT SUBDIVISION AND RIGHT OF WAY DEDICATIONS HAVE BEEN REVIEWED FOR APPROVAL BY CORPUD THEN RECORDED.
- 12. PROPOSED CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE, PROPOSED SPOT FLEVATIONS AND ROADWAY PROFILES/SUPERELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY. THE CONTRACTOR SHALL REVIEW, VERIFY AND COORDINATE ALL DIMENSIONS SHOWN ON PLANS.
- INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER PRIOR TO STARTING PROJECT. 14. ALL CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT
- RADIUS POINTS IS 1.5 FEET. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT. 15. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA
- REQUIREMENTS AND THE "NORTH CAROLINA STATE BUILDING CODE, VOL. 1-C ACCESSIBILITY CODE. 16. OWNER SHALL PROVIDE FENCING AND OTHER SAFETY MEASURES NECESSARY IN AND AROUND ANY PROPOSED STORMWATER MANAGEMENT MEASURES (PONDS, WETLANDS, ETC.) OBTAINING PROPER PERMITS SHALL BE THE RESPONSIBILITY OF THE OWNER.
- 17. RETAINING WALLS EXCEEDING 30 INCHES IN HEIGHT SHALL INCLUDE FALL PROTECTION IN THE FORM OF A HANDRAIL OR FENCING ON THE HIGH SIDE OF THE RETAINING WALL AND WILL REQUIRE A SEPARATE BUILDING PERMIT
- 18. PROPER COMPACTION OF ALL FILL SOILS PLACED ON SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COMPACTION SHALL BE ADEQUATE TO SUPPORT THE PROPOSED USE OF AREAS IN WHICH FILL SOILS ARE PLACED. THE CONTRACTOR SHALL HIRE A GEOTECHNICAL ENGINEER TO TEST AND VERIFY THAT COMPACTION IS ADEQUATE FOR THE PROPOSED USE OF IN THE AREA OF FILL PLACEMENT
- ALL ASPECTS OF THIS PROJECT SHALL BE IN FULL COMPLIANCE WITH CURRENT ADA STANDARDS. IF 19. THE CONTRACTOR NOTES ANY ASPECTS OF THE PROJECT WHICH ARE NOT IN COMPLIANCE, THE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY FURTHER WORK BEING PERFORMED. ANY WORK PERFORMED AFTER THE CONTRACTOR NOTES SUCH A NON COMPLIANCE IS SUBJECT TO REMOVAL AND REPAIR AT THE CONTRACTOR'S EXPENSE.
- 20. THE CONTRACTOR OR OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO TEST ALL EMBANKMENTS AND FILL PLACEMENT FOR PROPER COMPACTION. PROPER COMPACTION SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS OR THESE PLANS, WHICHEVER IS MORE STRINGENT. EMBANKMENTS FOR PONDS SHALL BE PLACED IN 6 INCH LOOSE LAYERS AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE OUTLET STRUCTURE AT ALL AT ALL PHASES OF INSTALLATION AND SHALL RETAIN WITH GEOTECHNICAL TESTING DATA. THE CONTRACTOR SHALL ALSO RETAIN ALL SHIPPING RECORDS AND SPECIFICATIONS FOR THE OUTLET STRUCTURE MATERIALS AND STRUCTURES. ALL OF THE ABOVE DATA MAY BE REQUIRED AS PART OF THE MUNICIPALITY AS-BUILT PROCESS AND SHALL BE MADE AVAILABLE TO THE ENGINEER UPON REQUEST. THE CONTRACTOR AND OWNER SHALL HAVE DOCUMENTATION OF THESE TESTS AVAILABLE UPON REQUEST.
- . RETAINING WALLS SHOWN HEREIN SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER WITH EXPERIENCE DESIGNING RETAINING WALLS. AT LEAST 14 DAYS PRIOR TO BEGINNING CONSTRUCTION OF RETAINING WALLS, THE CONTRACTOR SHALL CONTACT THE OWNER'S GEOTECHNICAL ENGINEER TO SCHEDULE AND COORDINATE ALL APPROPRIATE INSPECTIONS, TESTING, AND VERIFICATION NECESSARY DURING RETAINING WALL CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS INSPECTION, TESTING AND VERIFICATION FOR THE DURATION OF RETAINING WALL CONSTRUCTION. PROPER SCHEDULING, EXECUTION, AND RECORD KEEPING FOR ALL REQUIRED INSPECTIONS TESTING AND VERIFICATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH RECORDS SHALL BE RETAINED AND SHALL BE PROVIDED TO THE OWNER AND BASS, NIXON & KENNEDY, INC. ALL MONITORING, TESTING, AND VERIFICATION SHALL CONFORM TO THE MOST RECENT VERSION OF THE NC BUILDING CODE CHAPTER 18, SECTION 1806 OR THE WALL DESIGN ENGINEER'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT TOWN OF KNIGHTDALE STANDARDS AND SPECIFICATIONS **FLOWERS PLACE** ATTENTION CONTRACTORS The Construction Contractor responsible for the extension of water C0.1

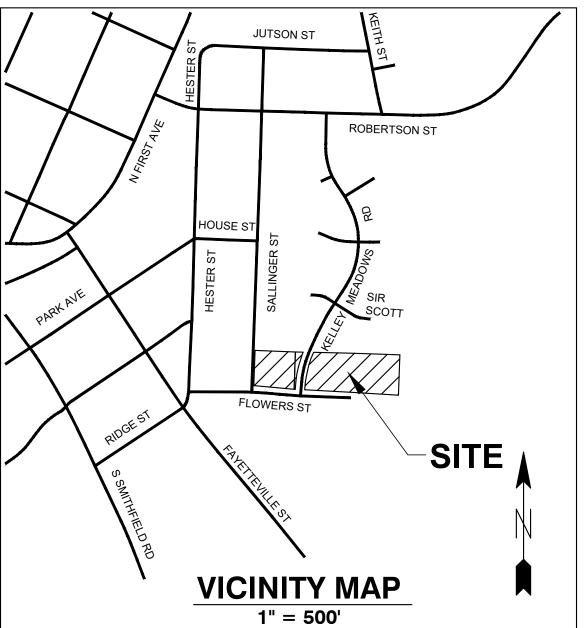
SUBDIVISION

(ELLEY MEADOWS ROAD OF KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA

NSTRUCTION DRAWINGS

NOTE: UTILITY CONNECTION PERMITS FOR THIS PROJECT WILL BE

TOWN OF KNIGHTDALE PUD CASE NO. ZMA-9-19



OWNER/ **DEVELOPER:**

HABITAT FOR HUMANITY **OF WAKE COUNTY** 2420 NORTH RALEIGH BLVD. **RALEIGH, NC 27604**

CONTACT: JIM MIDDLETON PHONE: 919-833-1999 EMAIL: Jim.Middleton@habitatwake.org

ENGINEER:





CONSULTING ENGINEERS 6310 CHAPEL HILL ROAD, SUITE 250 **RALEIGH, NORTH CAROLINA 27607 TELEPHONE: (919) 851-4422** FAX: (919) 851-8968 **CERTIFICATION NUMBERS: NCBELS (C-0110)**

NCBOLA (C-0267) CONTACT: MARTY D. BIZZELL, PE EMAIL: Marty.Bizzell@BNKinc.com



C4.1 C4.2 **PUBLIC SEWER PLAN AND PROFILE** DETAILS C5.1 C5.2 DETAILS DETAILS C5.3 DETAILS C5.4 C5.5 DETAILS LANDSCAPE PLAN L1.0 L1.1 LANDSCAPE PLAN

SITE LIGHTING



ZONING CONDITIONS

ZMA-9-19 HABITAT FOR HUMANITY PLANNED UNIT DEVELOPMENT SECTION 1: That the Unified Development Ordinance of the Town of Knightdale Code, which includes the Zoning District Map, be amended to rezone approximately 2.29 ± acres located within the Town of Knightdale's Corporate Limits located east of Kelley Meadows Road and north of Flowers Street, addressed 201 Flowers Street, and identified as Wake County PIN 1754-51-5410 from Urban Residential 12 (UR12) to Urban Residential-12 Planned Unit Development (UR12-PUD) as indicated.

SECTION 2. That the additional conditions contained within the application identified as ZMA-S 19 and PUD Document (Exhibit 1), and listed below apply as additional zoning conditions to the parcel of land identified as PIN 1754-51-5410:

1. All lots will be 30 feet in width, rear loaded on a private alley, and served by driveways that are a minimum length of 20 ft. rather than the UDO requirement of 35 ft.

2. The 20-foot Type B landscape buffer yard required between the proposed subdivision and existing Wil-Ros Meadows subdivision to the north will be reduced accordingly: the buffer will be reduced to a width of 5 ft. along Lot 1 and the alley; and to a width of 10 ft. along the proposed playground area. A 6 ft. wood privacy fence along with vegetation will be provided for the reduced buffer areas. The applicant will provide the full 20 ft. Type B buffer along the remainder of the shared northern property line.

3. The applicant will provide an uncovered Cluster Mailbox Unit (CBU) instead of a CBU covered by a shelter as required by UDO Ch. 4.7.E.

4. The applicant has provided actual home elevations that will be built in the subdivision (included in PUD document). In addition to the elevations, the applicant agrees to the Single-Family Dwelling Architectural Standards found in UDO Ch. 5.7 and the additional conditions listed below:

a. All dwellings will be 2-story single family homes built on 30 ft. wide lots and will have a minimum of 1,150 heated square feet.

b. All driveways will be a paved surface accessed from a rear alley with space to accommodate two vehicles. Garages will not be provided for this development. A paved or hard surface walking path will be provided from the driveway to the rear of the home.

c. All single-family homes shall be raised from the finished grade a minimum of 18" and shall have crawlspace foundations that shall be covered on all sides with brick or stone. Areas under porches may be enclosed with lattice.

d. All homes shall have a combination of two or more of the following materials on the front façade above the foundation: stone, brick, lap siding, shake, or board and batten. All siding shall be fiber cement. Vinyl may be used for soffits, fascia, and corner

e. All single-family homes will have a front porch with a minimum depth of six (6) feet. Front porch posts will be at least 6"x6" and extend at least 50% of the façade.

f. Main roof pitches (excluding porches) for 2-story homes shall be at least 7:12. Some dwellings may have hip roof design. Monopitch (shed) roofs are allowed only if they are attached to the wall of the main building and shall have a pitch of at least 3:12.

g. There shall be a 12" overhang on every gable roof end and hip roof end.

h. For every linear 30 feet (or fraction) of continuous side elevation, there shall be one window or door added to the side elevation. Any siding break on the side of the home such as a fireplace, porch, wall offset can be used as an alternative to a window or door.

5. The submitted site plan (Exhibit 2) and home elevations 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 UR12PUD zoning district, master plan comments, Unified Development Ordinance, and comments from the January 9, 2020 DRC meeting.

SECTION 3. That all laws and clauses of law in conflict herewith are hereby repealed to the extent of said conflict.

SECTION 4. That if this ordinance or application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions of this ordinance which can be given separate effect and to the end the provisions of this ordinance are declared to be severable.

SECTION 5. That this ordinance has been adopted following a duly advertised public hearing of the Town Council and following review and recommendation by the Land Use Review Board.

SECTION 6. That this ordinance shall be enforced as provided in G.S. 160A-175 or as provided for in the Knightdale Town Code.

SECTION 7. That this ordinance shall become effective upon its adoption by Town Council. Adopted this 19th day of February, 2020

FLOWERS PLACE SUBDIVISION

1754-51-1400

0 SALLINGER STREET

KNIGHTDALE, NORTH CAROLINA

0103135

UR12

UR12

EXEMPT

0060563

UR12

VACANT

17

UR12-PUD

EXEMPT/WET POND

1754-51-5410

0 KELLEY MEADOWS ROAD

SINGLE FAMILY RESIDENTIAL

0.076 AC (3,296 SF)

2.214 AC (96,458 SF) 2.290 AC (99.754

0.024 AC (1,035 SF)

7.502 UNITS/AC

51 BEDROOMS

3,210 SF

3,387 SF

4,096 SF

28,283 SF (0.65 AC)

KNIGHTDALE, NORTH CAROLINA

SITE DATA

PROJECT NAME: WET POND SITE: TOWN OF KNIGHTDALE PROPERTY PIN: REAL ID NUMBER ADDRESS: ZONING:

EXISTING: PROPOSED USE:

EXISTING: PROPOSED: SINGLE FAMILY RESIDENTIAL SITE: HABITAT FOR HUMANITY PROPERT PIN: REAL ID NUMBER:

ADDRESS: ZONING: EXISTING:

USE: EXISTING: PROPOSED:

SITE AREA (GROSS) WESTERN TRACT EASTERN TRACT:

PROPOSED:

DEDICATED R/W AREA FLOWERS STREET

MAX LOT SIZE PROPOSED:

OPEN SPACE PROVIDED

NET SITE AREA: 2.266 AC (98,719 SF) NUMBER OF LOTS: DENSITY (17 UNITS/2.266 AC): NUMBER OF BEDROOMS (3 PER UNIT x 17 UNITS): MINIMUM LOT WIDTH: MIN. LOT SIZE PROPOSED AVG LOT SIZE PROPOSED:

RECREATIONAL OPEN SPACE CALCULATIONS: (ENTIRE SITE IS WITHIN 1/4 MILE OF KNIGHTDALE ELEMENTARY PARK) DFNSITY: 17 UNITS/2.27 AC=7.5 UNITS/AC TOTAL BEDROOMS=17 x 3.0=51 BEDROOMS BEDROOM ESTIMATE: 51 BEDROOMS x 275 SF=14,025 SF (14.05%) OPEN SPACE REQUIRED: 50% ACTIVE: 14.025 x 0.50=7.013 SF 14,025 x 0.50=7,012 SF 50% PASSIVE

SETBACKS: FRONT: 10' MIN FRONT YARD ENCROACHMENT SIDF: 20% OF LOT WIDTH (WITH 3' MIN) REAR: 25' OR 20' FROM CL OF ALLEY DRIVEWAY LENGTH: 20' MIN 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

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 Utilities Department Permit # <u>- W-3700</u>

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions 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 # ____

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.

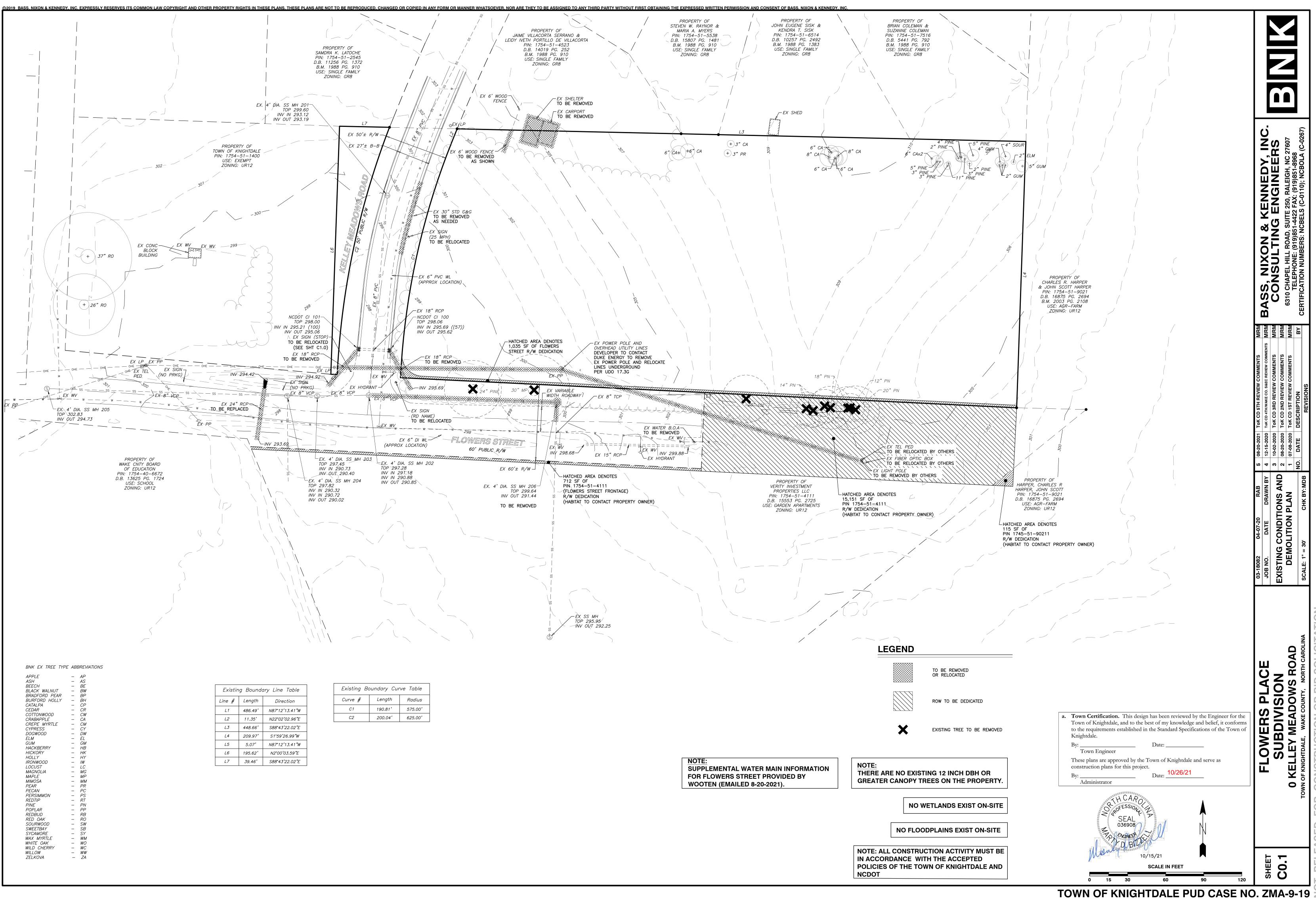
By: _____ Date: _____ Town Engineer These plans are approved by the Town of Knightdale and serve as construction plans for this project. 10/26/21 Date:

- Administrator . 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. 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 _, 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.

Date:

EXISTING CONDITIONS & DEMOLITION PLAN

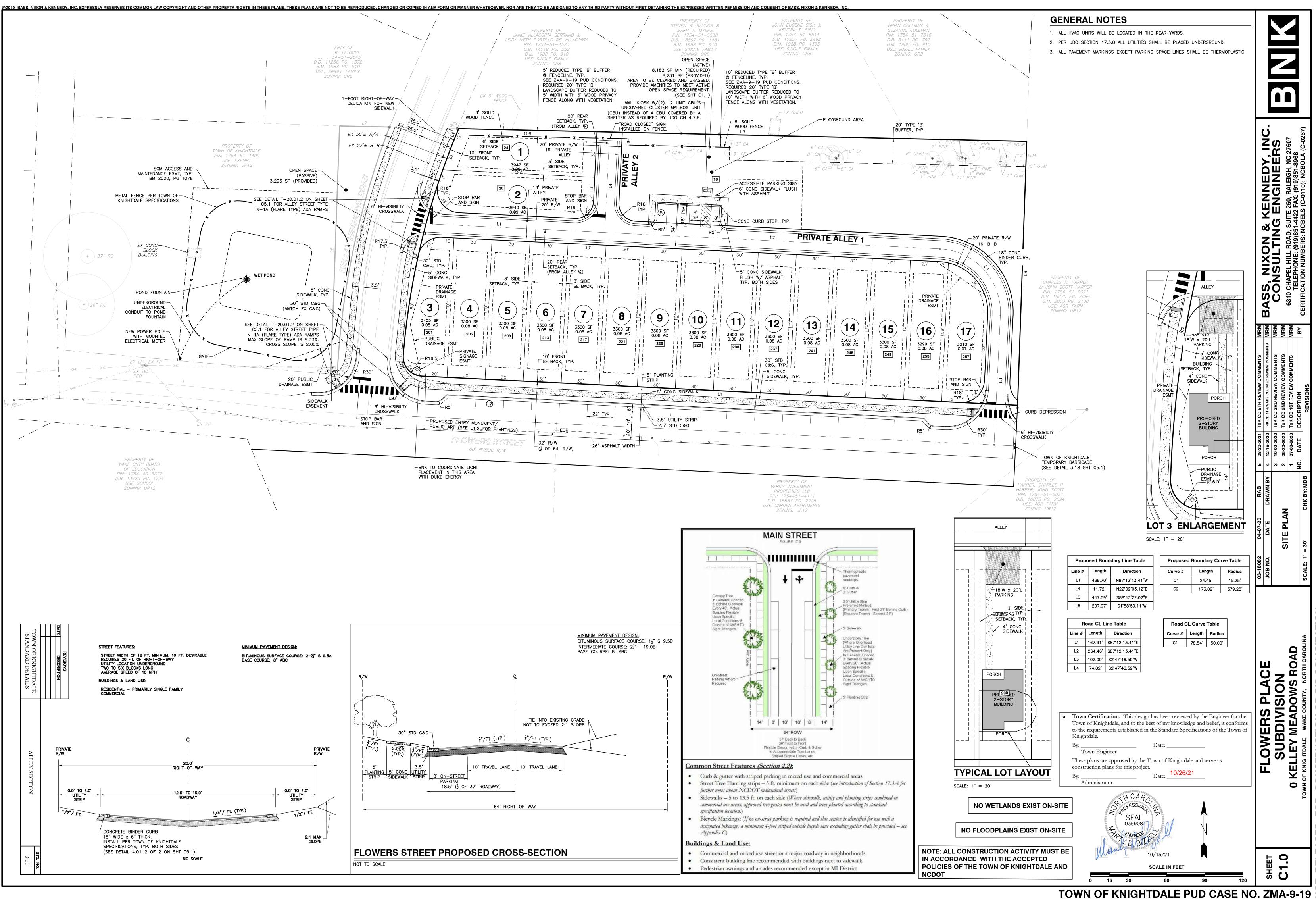
- **PRIVATE ALLEY 1 & 2 PLAN AND PROFILE** FLOWERS STREET ROAD WIDENING AND

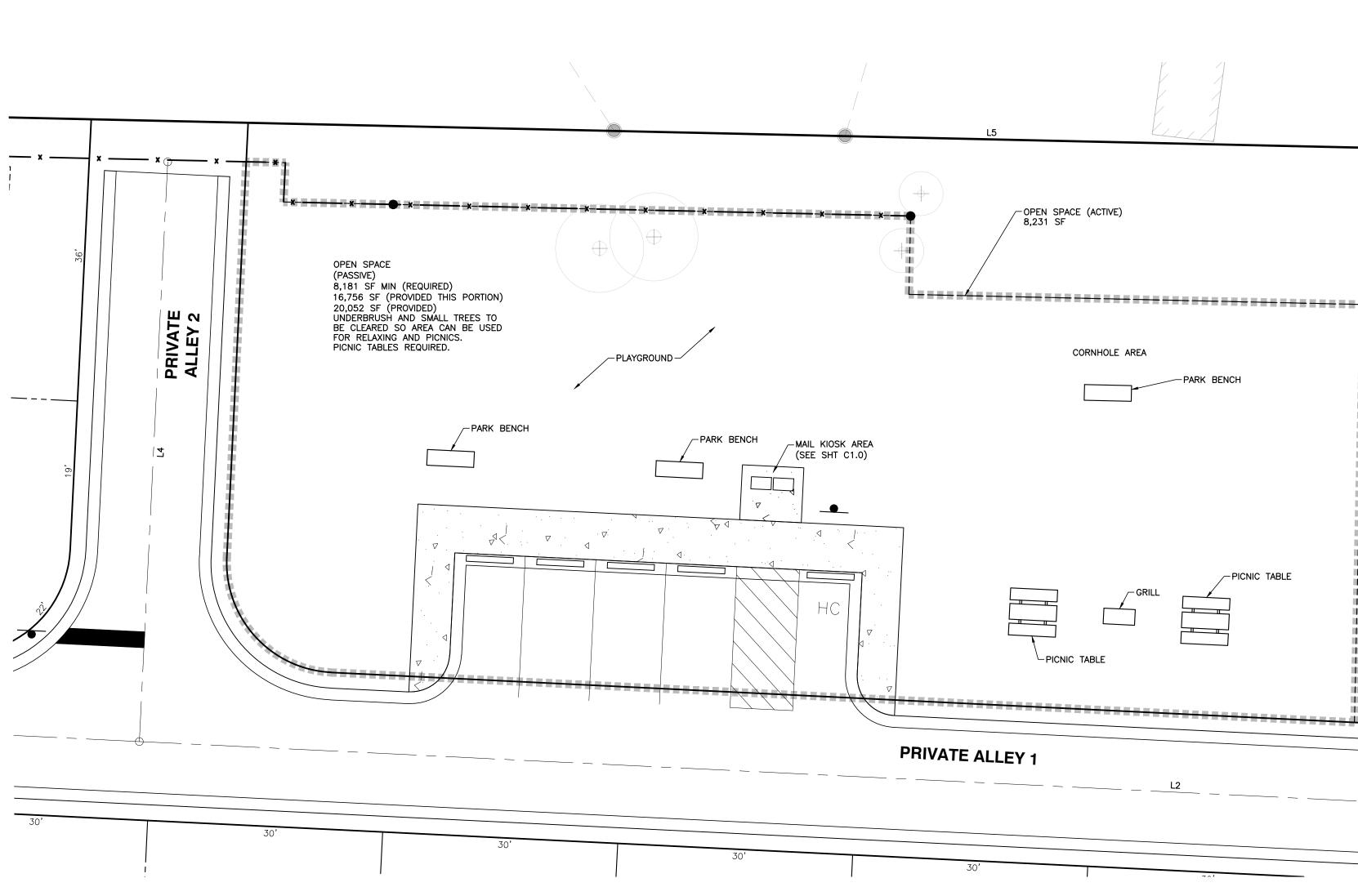


BNK EX TREE TYPE	E AB	BREVIATIOI
APPLE ASH BEECH BLACK WALNUT BRADFORD PEAR BURFORD HOLLY CATALPA CEDAR COTTONWOOD CRABAPPLE CREPE MYRTLE CYPRESS DOGWOOD ELM GUM HACKBERRY HICKORY HOLLY IRONWOOD LOCUST MAGNOLIA MAPLE MIMOSA PEAR PECAN PERSIMMON REDTIP PINE POPLAR REDBUD RED OAK SOURWOOD SWEETBAY SYCAMORE WAX MYRTLE WHITE OAK WILD CHERRY WILLOW ZELKOVA		AP AS BBW BP CCW CCM CCM CCW EGM BKY MW CCG MM RCS SCW WO CW ZA

Existing Boundary Line Table							
Line #	Length	Direction					
L1	486.49'	N87°12'13.41"W					
L2	11.35'	N22*02'02.96"E					
L3 448.66'		S88*43'22.02"E					
L4	209.97'	S1*59'26.99"W					
L5	5.07'	N87°12'13.41"W					
L6 195.62'		N2*00'03.59"E					
L7	39.46'	S88*43'22.02"E					

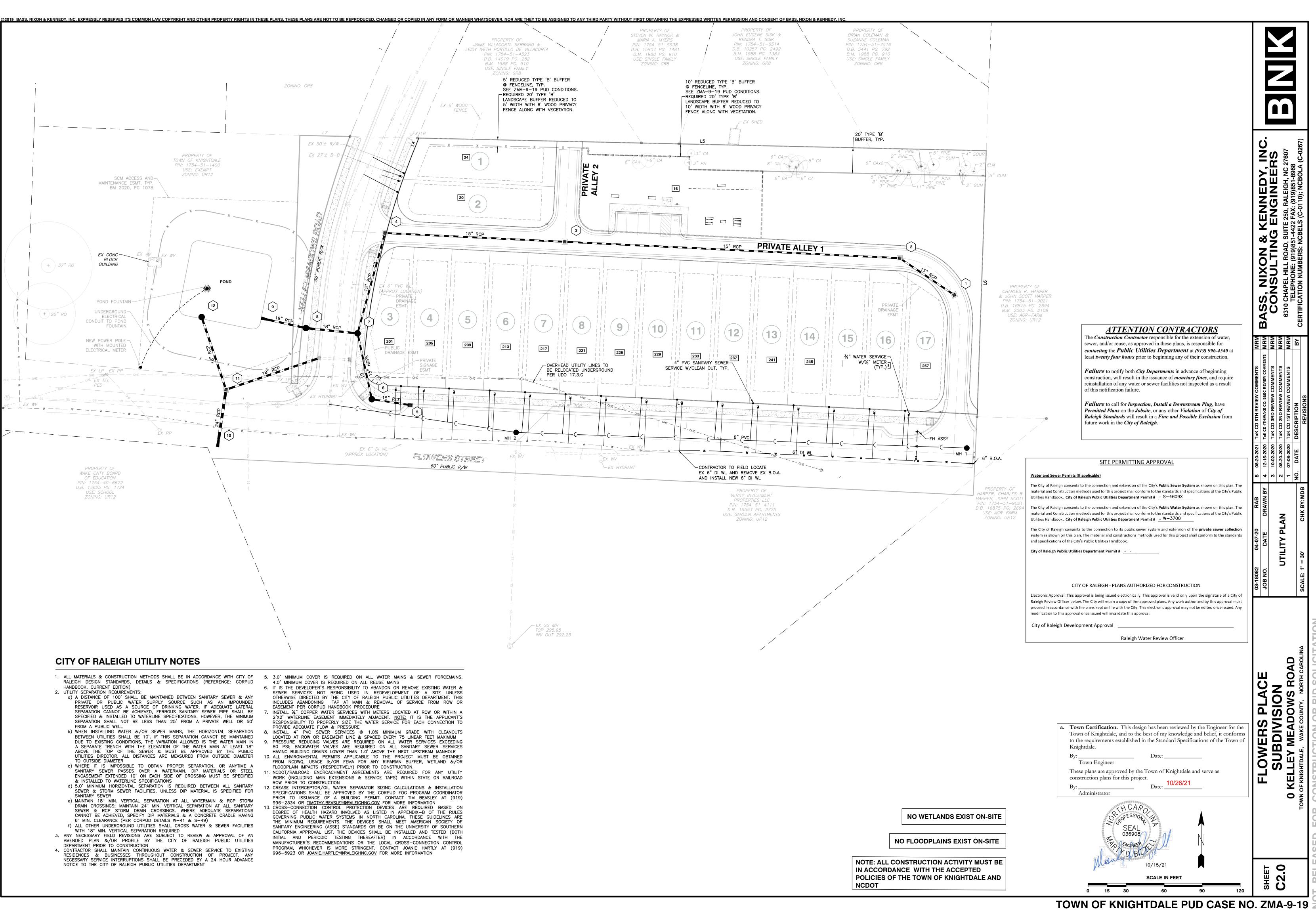
Existing Bo	oundary Cur	ve Table
Curve #	Length	Radius
C1	190.81'	575.00'
C2	200.04'	625.00'

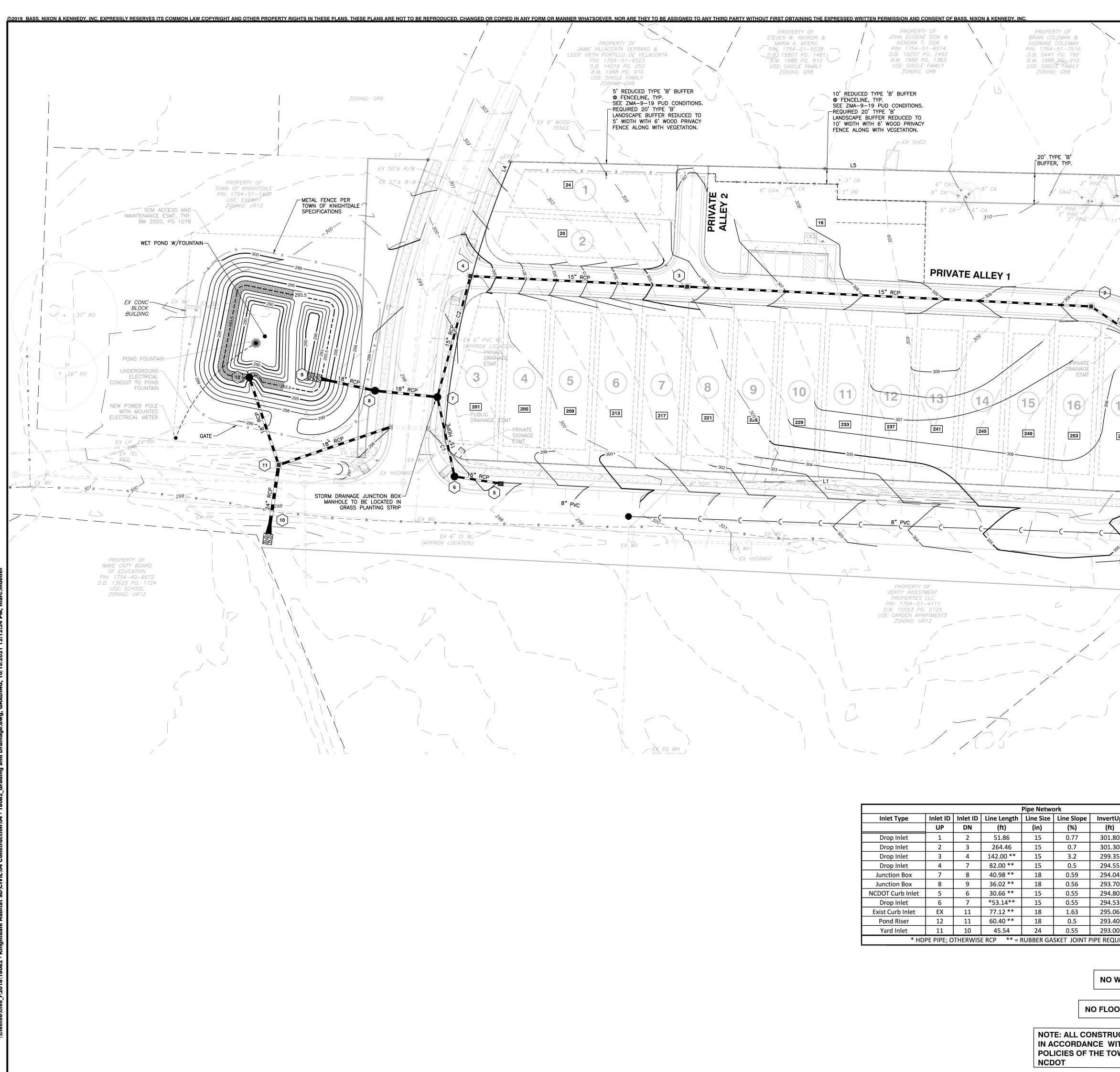




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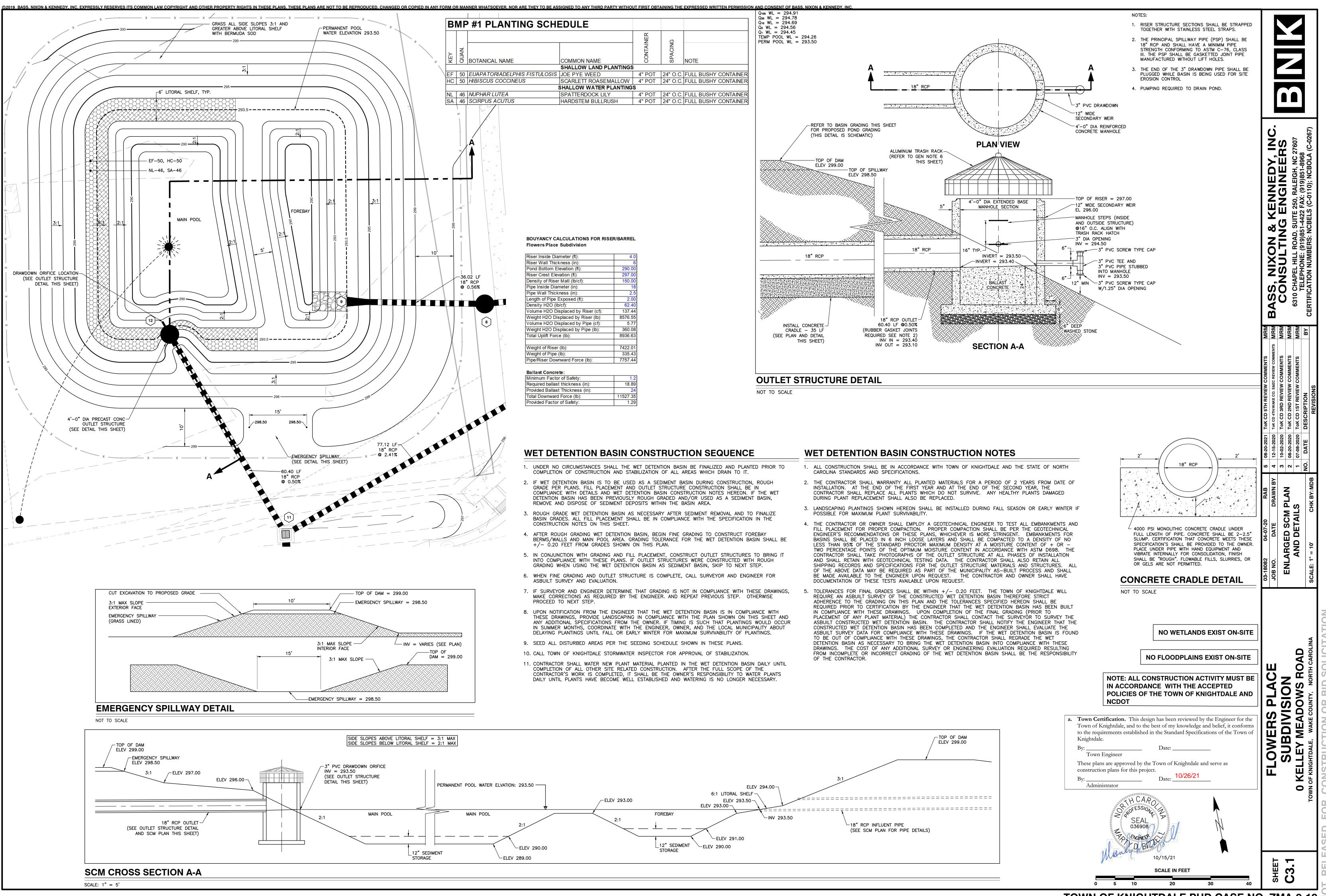
Tow Retrification Tow Retrification Tow Retrigement The ALL CONSTRUCTION ACTIVITY MUST FRE Texa LA CONSTRUCTION ACTIVITY MUST FRE				RS	6310 CHAPEL HILL ROAD, SUITE 250, RALEIGH, NC 27607	I ELEPHONE: (919)851-4422 FAX: (919)851-8968 CERTIFICATION NUMBERS: NCBELS (C-0110): NCBOLA (C-0267)	
			MRM MRM	MRM	MRM MRM	ВҮ	
						DESC	REVISIONS
Image: Second Structure of the Second Structure			5 4	6	- 10	ÖN	
In the requirements existing the second provided by the Engineer for the Town of Knightalae, and to the best of my knowledge and belief, it conforms to the requirements existing the second provided and belief, it conforms to the requirements existing the second provided and belief, it conforms to the requirements existing the second provided and belief, it conforms to the requirements existing the second provided and belief, it conforms to the requirements existing the second provided and belief, it conforms to the requirements existing the requirements					<u> </u>		
Image: State of the state			03-18082 JOB NO.		ACTIVE O	 =	_
ACCORDANCE WITH THE ACCEPTED LICIES OF THE TOWN OF KNIGHTDALE AND DOT	NO WETLANDS EXIST ON-SITE	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: 10/26/21 By: Date: Date: N	WERS PLA	NOISIVIUAI			
	TE: ALL CONSTRUCTION ACTIVITY MUST BE ACCORDANCE WITH THE ACCEPTED LICIES OF THE TOWN OF KNIGHTDALE AND DOT	10/15/21 SCALE IN FEET	CUEET		5		

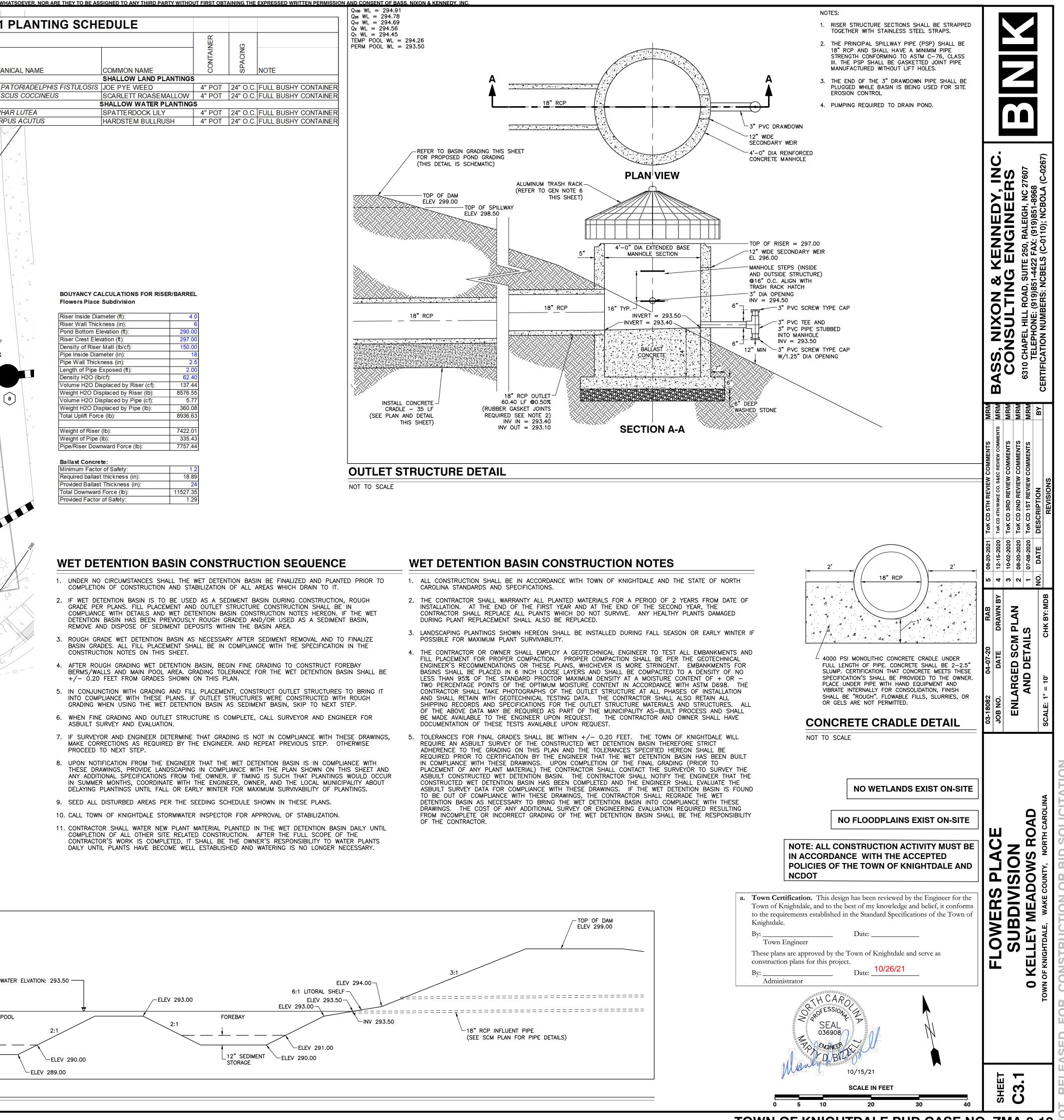


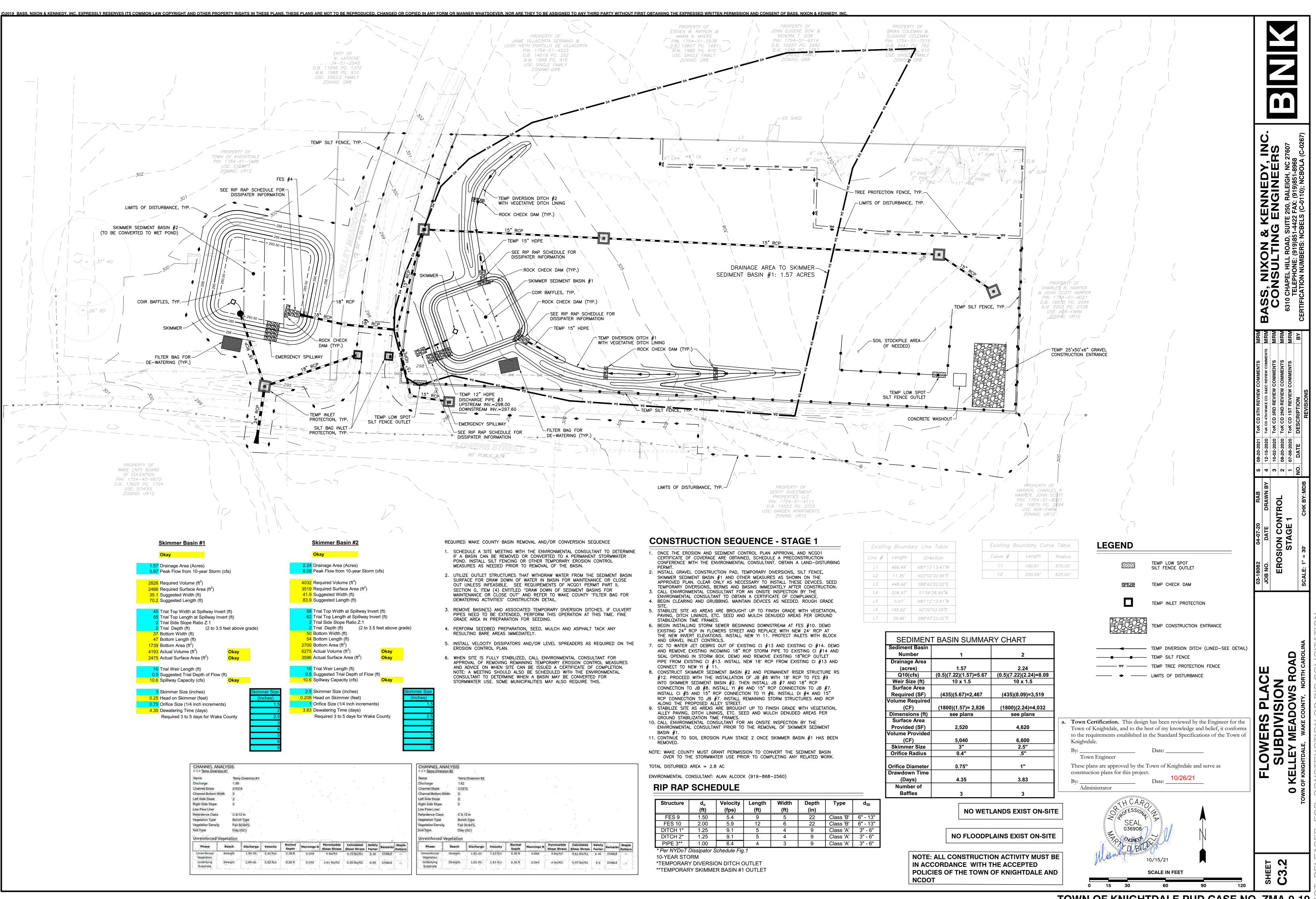


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FLOWERS PLACE 03-18082 04-07-20 RAB SUBDIVISION GRADING AND DRAINAG	B 5 08-20-2021 Tok CD 5TH REVIEW COMMENTS MRM N BY 4 12-15-2020 Tok CD 3TH REVIEW COMMENTS MRM 3 10-02-2020 Tok CD 3RD REVIEW COMMENTS MRM GE 2 08-20-2020 Tok CD 3RD REVIEW COMMENTS MRM A 1 07-08-2020 Tok CD 3RD REVIEW COMMENTS MRM GE 2 08-20-2020 Tok CD 3RD REVIEW COMMENTS MRM GE 2 08-20-2020 Tok CD 3RD REVIEW COMMENTS MRM GE 2 08-20-2020 Tok CD 3RD REVIEW COMMENTS MRM G1 07-08-2020 Tok CD 15T REVIEW COMMENTS MRM 6310 CHAPEL HILL ROAD, SUITE 250, RALEIGH, NC 27607 D D ND DATE D D D ND DATE D D D D ND DATE D D D D D D

TOWN OF KNIGHTDALE PUD CASE NO. ZMA-9-19 $\stackrel{\smile}{\simeq}$

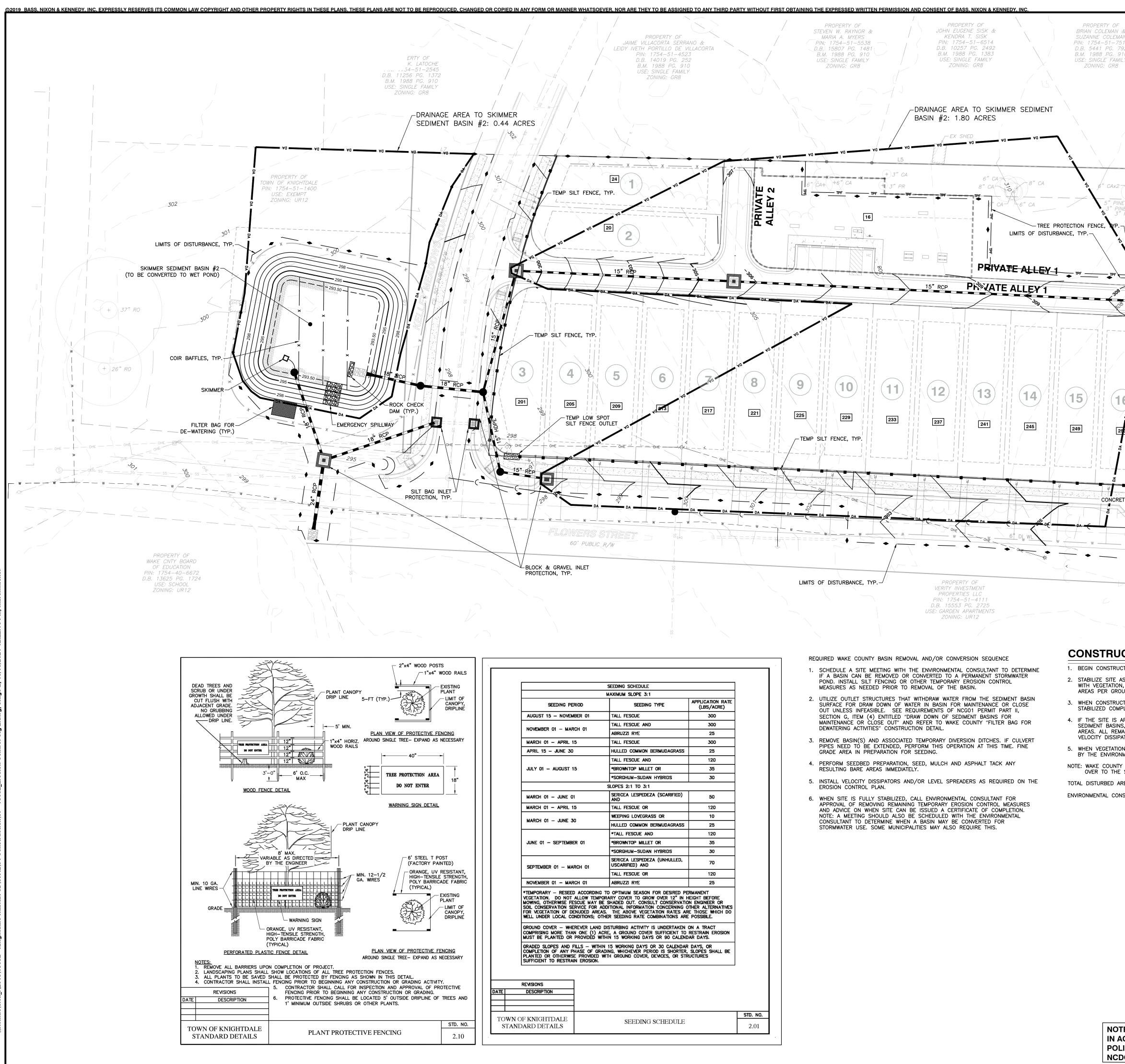






Structure	d _o	Velocity	Length	Width	Depth	Туре	d ₅₀				
	(ft)	(fps)	(ft)	(ft)	(in)						
FES 9	1.50	5.4	9	5	22	Class 'B'	6" - 13"				
FES 10	2.00	5.9	12	6	22	Class 'B'	6" - 13"				
DITCH 1*	1.25	9.1	5	4	9	Class 'A'	3" - 6"				
DITCH 2*	1.25	9.1	5	4	9	Class 'A'	3" - 6"				
PIPE 3**	1.00	6.4	4	3	9	Class 'A'	3" - 6"				

Line #	Length	Di
L1	486.49'	N87° ;
L2	11.35'	N22°0
L3	448.66'	S88°4
L4	209.97'	S1°5
L5	5.07'	N87° 1
L6	195.62'	N2°0
L7	39.46'	S88°4



	5	EEDING SCHEDULE	
	M	AXIMUM SLOPE 3:1	
SEEDING PER	RIOD	SEEDING TYPE	APPLICATION RATE (LBS/ACRE)
15 — NOVEM	BER 01	TALL FESCUE	300
R 01 - MAR		TALL FESCUE AND	300
K UI - MAR		ABRUZZI RYE	25
1 – APRIL 1	5	TALL FESCUE	300
- JUNE 30		HULLED COMMON BERMUDAGRASS	25
		TALL FESCUE AND	120
- AUGUST 1	5	*BROWNTOP MILLET OR	35
		*SORGHUM-SUDAN HYBRIDS	30
	5	LOPES 2:1 TO 3:1	
1 – JUNE 01	l	SERICEA LESPEDEZA (SCARIFIED) AND	50
1 – APRIL 1	5	TALL FESCUE OR	120
1 – JUNE 30	.	WEEPING LOVEGRASS OR	10
1 - JUNE JU	J	HULLED COMMON BERMUDAGRASS	25
		*TALL FESCUE AND	120
- septembe	IR 01	*BROWNTOP MILLET OR	35
		*SORGHUM-SUDAN HYBRIDS	30
ER 01 - MAR	RCH 01	SERICEA LESPEDEZA (UNHULLED, USCARIFIED) AND	70
		TALL FESCUE OR	120
R 01 - MAR	СН 01	ABRUZZI RYE	25
N. DO NOT THERWISE FE ERVATION SE ATION OF DE R LOCAL CO OVER - WHE G MORE THAN	ALLOW TEMPORA SCUE MAY BE S RVICE FOR ADDI NUDED AREAS. NDITIONS; OTHEI REVER LAND DIS N ONE (1) ACRE	OPTIMUM SEASON FOR DESIRED PE RY COVER TO GROW OVER 12" IN H HADED OUT. CONSULT CONSERVATIO TIONAL INFORMATION CONCERNING O THE ABOVE VEGETATION RATES AR R SEEDING RATE COMBINATIONS ARE STURBING ACTIVITY IS UNDERTAKEN , A GROUND COVER SUFFICIENT TO N 15 WORKING DAYS OR 90 CALEND	IEIGHT BEFORE IN ENGINEER OR ITHER ALTERNATIVES IE THOSE WHICH DO I POSSIBLE.
N OF ANY PI	HASE OF GRADIN	5 Working Days or 30 Calendar 1g, Whichever Period Is Shorter, 1 ground cover, devices, or str	SLOPES SHALL BE
RY - RESEED N. DO NOT THERWSE FE ERVATION SE ERVATION OF DE R LOCAL CO OVER - WHE G MORE THAR PLANTED OR OPES AND F N OF ANY PI N OF ANY PI N OF ANY PI	ACCORDING TO ALLOW TEMPORA SCUE MAY BE S RVICE FOR ADDI NUDED AREAS. NDITIONS; OTHEI REVER LAND DIS N ONE (1) ACRE PROVIDED WITHIN TILLS - WITHIN 1 HASE OF GRADIT E PROVIDED WITHIN	OPTIMUM SEASON FOR DESIRED PE IRY COVER TO GROW OVER 12" IN H HADED OUT. CONSULT CONSERVATO TIONAL INFORMATION CONCERNING O THE ABOVE VEGETATION RATES AR R SEEDING RATE COMBINATIONS ARE STURBING ACTIVITY IS UNDERTAKEN , A GROUND COVER SUFFICIENT TO N 15 WORKING DAYS OR 90 CALENDAR IS WORKING DAYS OR 30 CALENDAR IG, WHICHEVER PERIOD IS SHORTER,	RMANENT IEIGHT BEFORE IN ENGINEER OR ITHER ALTERNATIVE IE THOSE WHICH DO POSSIBLE. ON A TRACT RESTRAIN EROSION VAR DAYS. DAYS, OR SLOPES SHALL BE
TDALE		SEEDING SCHEDULE	

- 4. IF THE SITE IS A SEDIMENT BASINS AREAS. ALL REMA
- 5. WHEN VEGETATION BY THE ENVIRON

NOTE: WAKE COUNTY OVER TO THE

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F N & MAN 7516 792 910 MILY 8 2 2 PINE PINE P		CENNEDY, INC. ENGINEERS ESO, RALEIGH, NC 27607 22 FAX: (919)851-8968 LS (C-0110); NCBOLA (C-0267)
	HARPER HARPER 1–9021 G. 2694 G. 2108 FARM	MRM MRM MRM MRM 6310 CHAPEL HILL ROAD, SUITE 2 7 TELEPHONE: (919)851-4422 I 7 CERTIFICATION NUMBERS: NCBELS
TEMP 25'S CONSTRUCT	'x50'x6" GRAVEL CTION ENTRANCE	5 08-20-2021 ToK CD 5TH REVIEW COMMENTS 4 12-15-2020 ToK CD 4TH/WAKE CO. S&EC REVIEW COMMENTS 3 10-02-2020 ToK CD 3RD REVIEW COMMENTS 2 08-20-2020 ToK CD 3RD REVIEW COMMENTS 1 07-08-2020 ToK CD 2ND REVIEW COMMENTS NO. DATE DESCRIPTION REVISIONS REVISIONS
PROPERTY OF HARPER, CHARLES R HARPER, JOHN SCOTT PIN: 1754–51–9021 D.B. 16875 PG. 2694 USE: AGR-FARM ZONING: UR12 UCTION OF THE INDIVIDUAL HOMES. AS NEW DISTURBED AREAS ARE BROUGHT UP TO FINISH GRADE ON, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED ROUND STABILIZATION TIME FRAMES. UCTION OF ALLEY STREET IS COMPLETE AND ALL AREAS ARE MPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.	LEGEND	03-18082 04-07-20 RAB JOB NO. DATE DRAWN BY JOB NO. DATE DRAWN BY FROSION CONTROL STAGE 2 SCALE: 1" = 30' CHK BY: MDB
APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, INS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE EMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS IPATORS, SHOULD NOW BE INSTALLED. TION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION DONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION. ITY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN HE STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK. AREA = 2.8 AC ONSULTANT: ALAN ALCOCK (919–868–2560)	Image: Definition Image: Definition <td>LACE ION WS ROAD TY, NORTH CAROLINA</td>	LACE ION WS ROAD TY, NORTH CAROLINA
ר ד ד ד ר ר ר ר ר ר ר ר ר ר ר ר ר ר ר ר	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:	FLOWERS PL SUBDIVISIO D KELLEY MEADOW TOWN OF KNIGHTDALE, WAKE COUNTY
NO FLOODPLAINS EXIST ON-SITE DTE: ALL CONSTRUCTION ACTIVITY MUST BE ACCORDANCE WITH THE ACCEPTED DLICIES OF THE TOWN OF KNIGHTDALE AND CDOT	SEAL 36908 5 KoineER 5 KoineER	SHEET C3.3

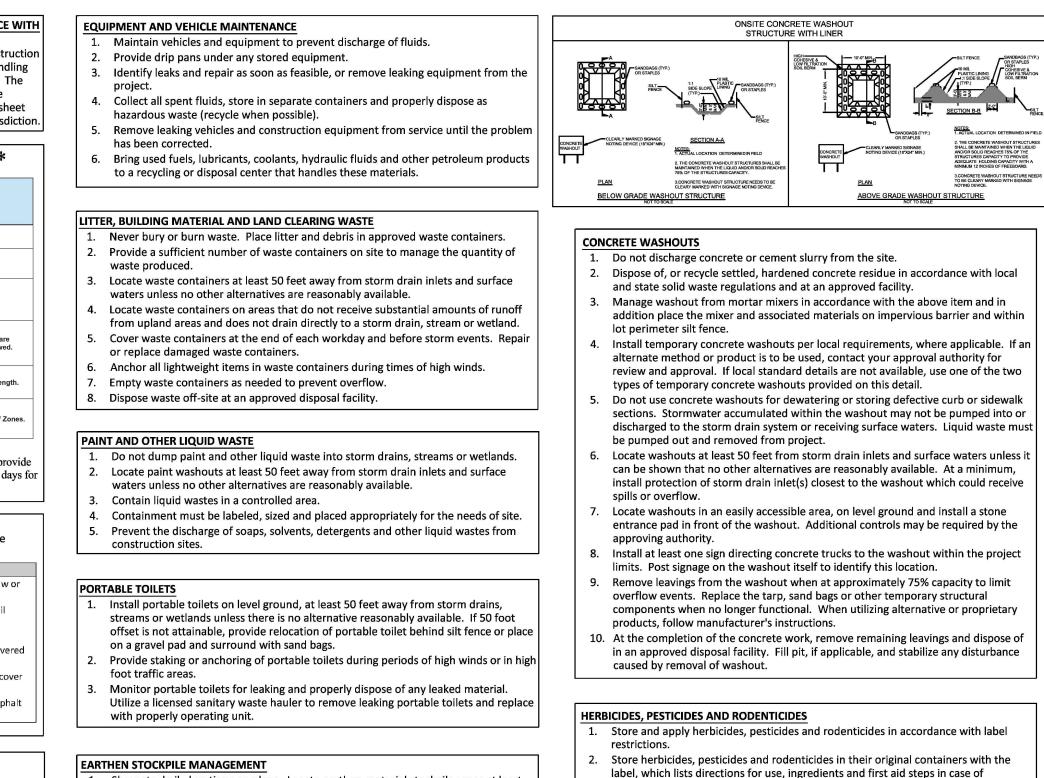
GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMI Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction Temporary and Permanent Groundcover* STADILIZATION TIMEEDAMES

302019 BASS, NIXON & KENNEDY, INC. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN PERMISSION AND CONSENT OF BASS, NIXON & KENNEDY, INC. EXPRESSION AND CONSENT OF BASS, INC. EXPRESSION AND CONSENT

(Effective Aug. 3, 2011)								
	SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS					
and the second s	Perimeter dikes, swales, ditches, slopes	7 days	None					
	High Quality Water (HQW) Zones	7 days	None					
	Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed					
	Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in leng					
/	All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zo					
		1						
	lize the ground sufficiently so that random in the table below: Temporary Stabilization	-	islodge the soil. Use one of the Permanent Stabilization					
Tre of Ri Ri A	niques in the table below: Temporary Stabilization emporary grass seed covered with straw of ther mulches and tackifiers ydroseeding olled erosion control products with or with emporary grass seed ppropriately applied straw or other mulch	or • Perm other hout • Hydro • Shrub	Permanent Stabilization anent grass seed covered with straw mulches and tackifiers extile fabrics such as permanent soil procement matting pseeding as or other permanent plantings cover					
 Chr T O¹ H R t A 	niques in the table below: Temporary Stabilization emporary grass seed covered with straw of ther mulches and tackifiers ydroseeding olled erosion control products with or with emporary grass seed	or Perm other hout Shrut with Unifo suffic Struc	Permanent Stabilization anent grass seed covered with straw mulches and tackifiers extile fabrics such as permanent soil procement matting pseeding					
T(O ¹ R R te	niques in the table below: Temporary Stabilization emporary grass seed covered with straw of ther mulches and tackifiers ydroseeding olled erosion control products with or with emporary grass seed ppropriately applied straw or other mulch	or Perm other hout Shrut with Unifo suffic Struc	Permanent Stabilization anent grass seed covered with straw mulches and tackifiers extile fabrics such as permanent soil preement matting oseeding os or other permanent plantings cover mulch rm and evenly distributed ground cov ient to restrain erosion tural methods such as concrete, asph					
• T(o' • H • R te • A • P	niques in the table below: Temporary Stabilization emporary grass seed covered with straw of ther mulches and tackifiers ydroseeding olled erosion control products with or with emporary grass seed ppropriately applied straw or other mulch	or • Perm other • Geote hout • Hydro • Hydro • Shrut with • Unifo suffic • Struc or ret ULANTS iate for the s	Permanent Stabilization anent grass seed covered with straw mulches and tackifiers extile fabrics such as permanent soil preement matting oseeding os or other permanent plantings cover mulch rm and evenly distributed ground cov ient to restrain erosion tural methods such as concrete, asph- aining walls oils being exposed during					
chr • T(• H • R • te • A • P!	Temporary Stabilization emporary grass seed covered with straw of ther mulches and tackifiers ydroseeding olled erosion control products with or with emporary grass seed ppropriately applied straw or other mulch lastic sheeting YACRYLAMIDES (PAMS) AND FLOCCC Select flocculants that are appropr construction, selecting from the No	ain will not d	Permanent Stabilization anent grass seed covered with straw mulches and tackifiers extile fabrics such as permanent soil orcement matting oseeding so or other permanent plantings cover mulch rm and evenly distributed ground cov ient to restrain erosion tural methods such as concrete, asph- aining walls oils being exposed during <i>Approved PAMS/Flocculants</i> .					
chr T(o H R te A P DL1	Temporary Stabilization emporary grass seed covered with straw of ther mulches and tackifiers ydroseeding olled erosion control products with or wit emporary grass seed ppropriately applied straw or other mulch lastic sheeting //ACRYLAMIDES (PAMS) AND FLOCC Select flocculants that are appropr	ain will not d	Permanent Stabilization anent grass seed covered with straw mulches and tackifiers extile fabrics such as permanent soil orcement matting oseeding so or other permanent plantings cover mulch rm and evenly distributed ground cov ient to restrain erosion tural methods such as concrete, asph- aining walls oils being exposed during <i>CApproved PAMS/Flocculants</i> . ion and Sediment Control Measu d in the NC DWR List of Approve					
• T(or • H • R • te • A • P	Temporary Stabilization emporary grass seed covered with straw of ther mulches and tackifiers ydroseeding olled erosion control products with or wit emporary grass seed ppropriately applied straw or other mulch lastic sheeting ACRYLAMIDES (PAMS) AND FLOCC Select flocculants that are appropr construction, selecting from the <i>Ne</i> Apply flocculants at or before the in Apply flocculants at the concentra	ain will not d or • Perm other • Geote Hydro • Hydro • Shrub with • Unifo suffic • Struc or ret ULANTS iate for the s <i>C DWR List oj</i> inlets to Eros tions specifie ce with the n	Permanent Stabilization anent grass seed covered with straw mulches and tackifiers extile fabrics such as permanent soil preement matting oseeding is or other permanent plantings cover mulch rm and evenly distributed ground cov ient to restrain erosion tural methods such as concrete, asph- aining walls oils being exposed during <i>FApproved PAMS/Flocculants</i> . ion and Sediment Control Measu d in the NC DWR List of Approve- nanufacturer's instructions.					

NORTH CAROLINA Environmental Quality

PART III PART III PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING SELF-INSPECTION. RECORD KEEPING AND REPORTING SELF-INSPECTION, RECORDKEEPING AND REPORTING SECTION A: SELF-INSPECTION SECTION B: RECORDKEEPING SECTION C: REPORTING Self-inspections are required during normal business hours in accordance with the table 1. E&SC Plan Documentation . Occurrences that Must be Reported below. When adverse weather or site conditions would cause the safety of the inspection The approved E&SC plan as well as any approved deviation shall be kept on the site. The Permittees shall report the following occurrences: personnel to be in jeopardy, the inspection may be delayed until the next business day on approved E&SC plan must be kept up-to-date throughout the coverage under this permit. (a) Visible sediment deposition in a stream or wetland. which it is safe to perform the inspection. In addition, when a storm event of equal to or The following items pertaining to the E&SC plan shall be kept on site and available for greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be inspection at all times during normal business hours. (b) Oil spills if: performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record. Item to Document Documentation Requirements They are 25 gallons or more, (a) Each E&SC measure has been installed Initial and date each E&SC measure on a copy • They are less than 25 gallons but cannot be cleaned up within 24 hours, (during normal Inspection records must include: and does not significantly deviate from the of the approved E&SC plan or complete, date Inspect • They cause sheen on surface waters (regardless of volume), or business hours) locations, dimensions and relative elevations and sign an inspection report that lists each Daily rainfall amount (1) Rain gauge shown on the approved E&SC plan. E&SC measure shown on the approved E&SC • They are within 100 feet of surface waters (regardless of volume). If no daily rain gauge observations are made during weekend or maintained in plan. This documentation is required upon the holiday periods, and no individual-day rainfall information is good working initial installation of the E&SC measures or if available, record the cumulative rain measurement for those unorder Releases of hazardous substances in excess of reportable quantities under Section 311 attended days (and this will determine if a site inspection is the E&SC measures are modified after initial of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA needed). Days on which no rainfall occurred shall be recorded as installation. "zero." The permittee may use another rain-monitoring device (Ref: 40 CFR 302.4) or G.S. 143-215.85. (b) A phase of grading has been completed. Initial and date a copy of the approved E&SC approved by the Division. plan or complete, date and sign an inspection Identification of the measures inspected (2) E&SC At least once pe 7 calendar days . Date and time of the inspection, report to indicate completion of the (d) Anticipated bypasses and unanticipated bypasses. Name of the person performing the inspection. and within 24 construction phase. Indication of whether the measures were operating hours of a rain Initial and date a copy of the approved E&SC (c) Ground cover is located and installed event ≥ 1.0 inch in properly, (e) Noncompliance with the conditions of this permit that may endanger health or the plan or complete, date and sign an inspection in accordance with the approved E&SC 24 hours Description of maintenance needs for the measure, environment. report to indicate compliance with approved Description, evidence, and date of corrective actions taken. (3) Stormwater At least once per Identification of the discharge outfalls inspected, ground cover specifications. 7 calendar days 2. Date and time of the inspection, discharge (d) The maintenance and repair Complete, date and sign an inspection report. **Reporting Timeframes and Other Requirements** outfalls (SDCs) and within 24 Name of the person performing the inspection requirements for all E&SC measures hours of a rain 4. Evidence of indicators of stormwater pollution such as oil After a permittee becomes aware of an occurrence that must be reported, he shall contact have been performed. sheen, floating or suspended solids or discoloration, event \geq 1.0 inch in 24 hours the appropriate Division regional office within the timeframes and in accordance with the 5. Indication of visible sediment leaving the site, (e) Corrective actions have been taken Initial and date a copy of the approved E&SC Description, evidence, and date of corrective actions taken. other requirements listed below. Occurrences outside normal business hours may also be to E&SC measures. plan or complete, date and sign an inspection (4) Perimeter of At least once per If visible sedimentation is found outside site limits, then a record reported to the Department's Environmental Emergency Center personnel at (800) report to indicate the completion of the 7 calendar days of the following shall be made: 858-0368. . Actions taken to clean up or stabilize the sediment that has left and within 24 corrective action. hours of a rain the site limits, 2. Additional Documentation to be Kept on Site event \geq 1.0 inch in 2. Description, evidence, and date of corrective actions taken. and Reporting Timeframes (After Discovery) and Other Requirements Occurrence In addition to the E&SC plan documents above, the following items shall be kept on the 24 hours 3. An explanation as to the actions taken to control future (a) Visible sediment • Within 24 hours, an oral or electronic notification. site and available for inspectors at all times during normal business hours, unless the deposition in a • Within 7 calendar days, a report that contains a description of the (5) Streams or At least once per If the stream or wetland has increased visible sedimentation or a Division provides a site-specific exemption based on unique site conditions that make stream or wetland sediment and actions taken to address the cause of the deposition. stream has visible increased turbidity from the construction wetlands onsite 7 calendar days this requirement not practical: Division staff may waive the requirement for a written report on a or offsite and within 24 activity, then a record of the following shall be made: case-by-case basis. (where hours of a rain Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division If the stream is named on the <u>NC 303(d) list</u> as impaired for sedimentaccessible) event ≥ 1.0 inch in (a) This General Permit as well as the Certificate of Coverage, after it is received. Regional Office per Part III, Section C, Item (2)(a) of this permit. related causes, the permittee may be required to perform additional (6) Ground After each phase The phase of grading (installation of perimeter E&SC monitoring, inspections or apply more stringent practices if staff (b) Records of inspections made during the previous twelve months. The permittee shall stabilization of grading measures, clearing and grubbing, installation of storm determine that additional requirements are needed to assure compliance record the required observations on the Inspection Record Form provided by the drainage facilities, completion of all land-disturbing measures with the federal or state impaired-waters conditions. activity, construction or redevelopment, permanent Division or a similar inspection form that includes all the required elements. Use of (b) Oil spills and Within 24 hours, an oral or electronic notification. The notification ground cover) electronically-available records in lieu of the required paper copies will be allowed if release of shall include information about the date, time, nature, volume and Documentation that the required ground stabilization shown to provide equal access and utility as the hard-copy records. hazardous measures have been provided within the required location of the spill or release. timeframe or an assurance that they will be provided as substances per Iter 3. Documentation to be Retained for Three Years oon as possible 1(b)-(c) above All data used to complete the e-NOI and all inspection records shall be maintained for a period (c) Anticipated A report at least ten days before the date of the bypass, if possible NOTE: The rain inspection resets the required 7 calendar day inspection requirement. of three years after project completion and made available upon request. [40 CFR 122.41] bypasses [40 CFR The report shall include an evaluation of the anticipated quality and 122.41(m)(3)] effect of the bypass (d) Unanticipated Within 24 hours, an oral or electronic notification. PART II, SECTION G, ITEM (4) bypasses [40 CFR • Within 7 calendar days, a report that includes an evaluation of the DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT 122.41(m)(3)] quality and effect of the bypass. (e) Noncompliance Within 24 hours, an oral or electronic notification. Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down with the conditions • Within 7 calendar days, a report that contains a description of the for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). of this permit that noncompliance, and its causes; the period of noncompliance, Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met: may endanger including exact dates and times, and if the noncompliance has not health or the been corrected, the anticipated time noncompliance is expected to environment[40 continue; and steps taken or planned to reduce, eliminate, and (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal CFR 122.41(I)(7)] prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6). shall not commence until the E&SC plan authority has approved these items, Division staff may waive the requirement for a written report on a b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, case-by-case basis. (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems, d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above, NORTH CAROLINA (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and 🕼 Environmental Quality) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States. NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING **EFFECTIVE: 04/01/19**



- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile. Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.
- label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately. . Do not stockpile these materials onsite.

EFFECTIVE: 03/01/19

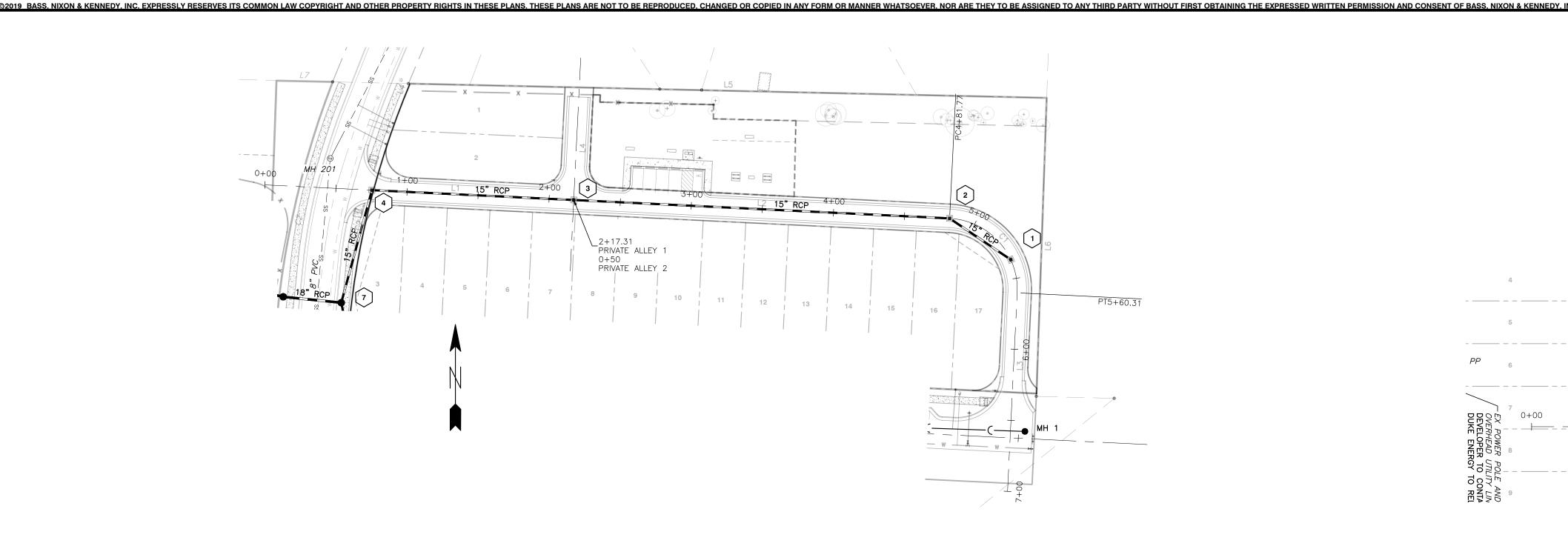
HAZARDOUS AND TOXIC WASTE

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

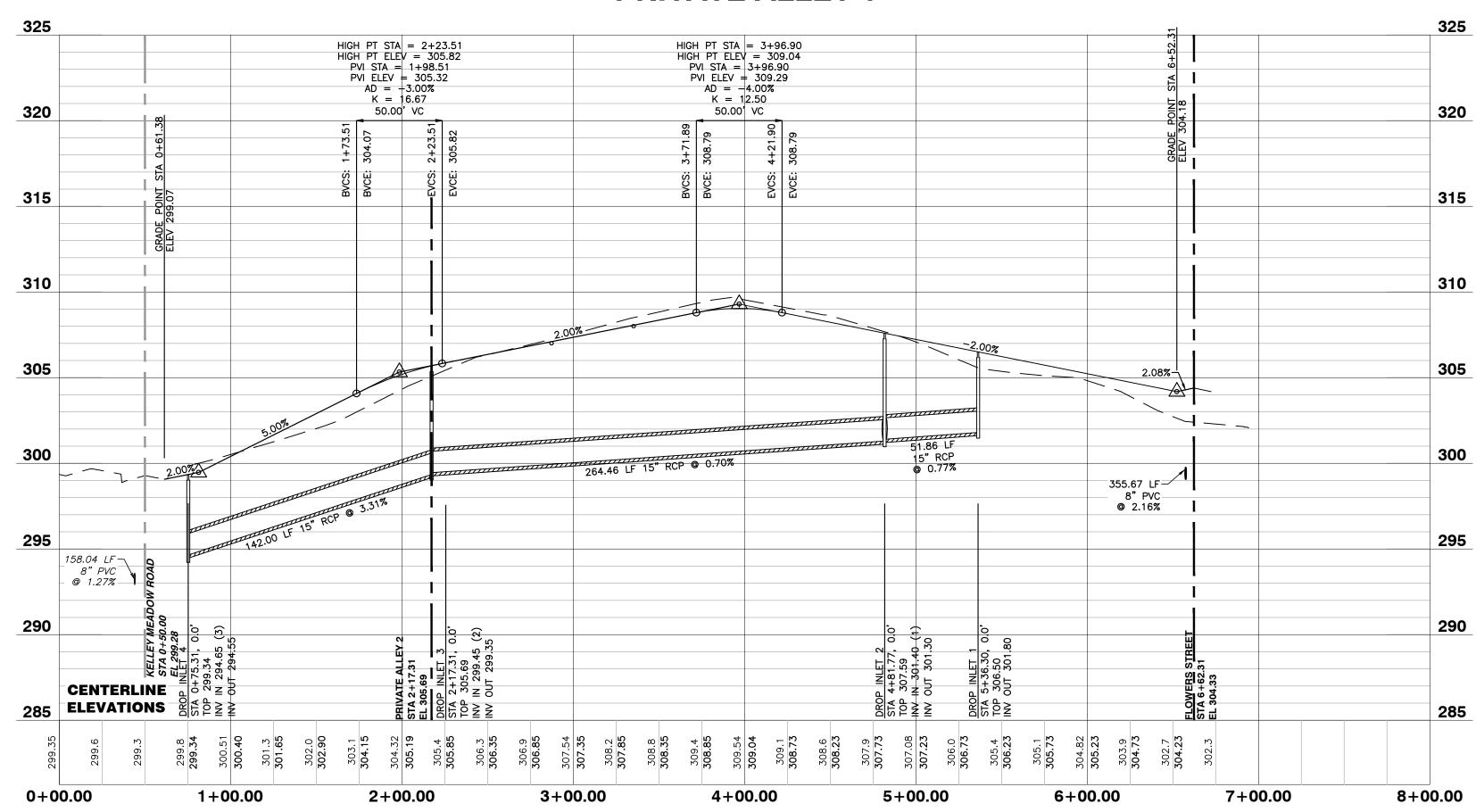
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

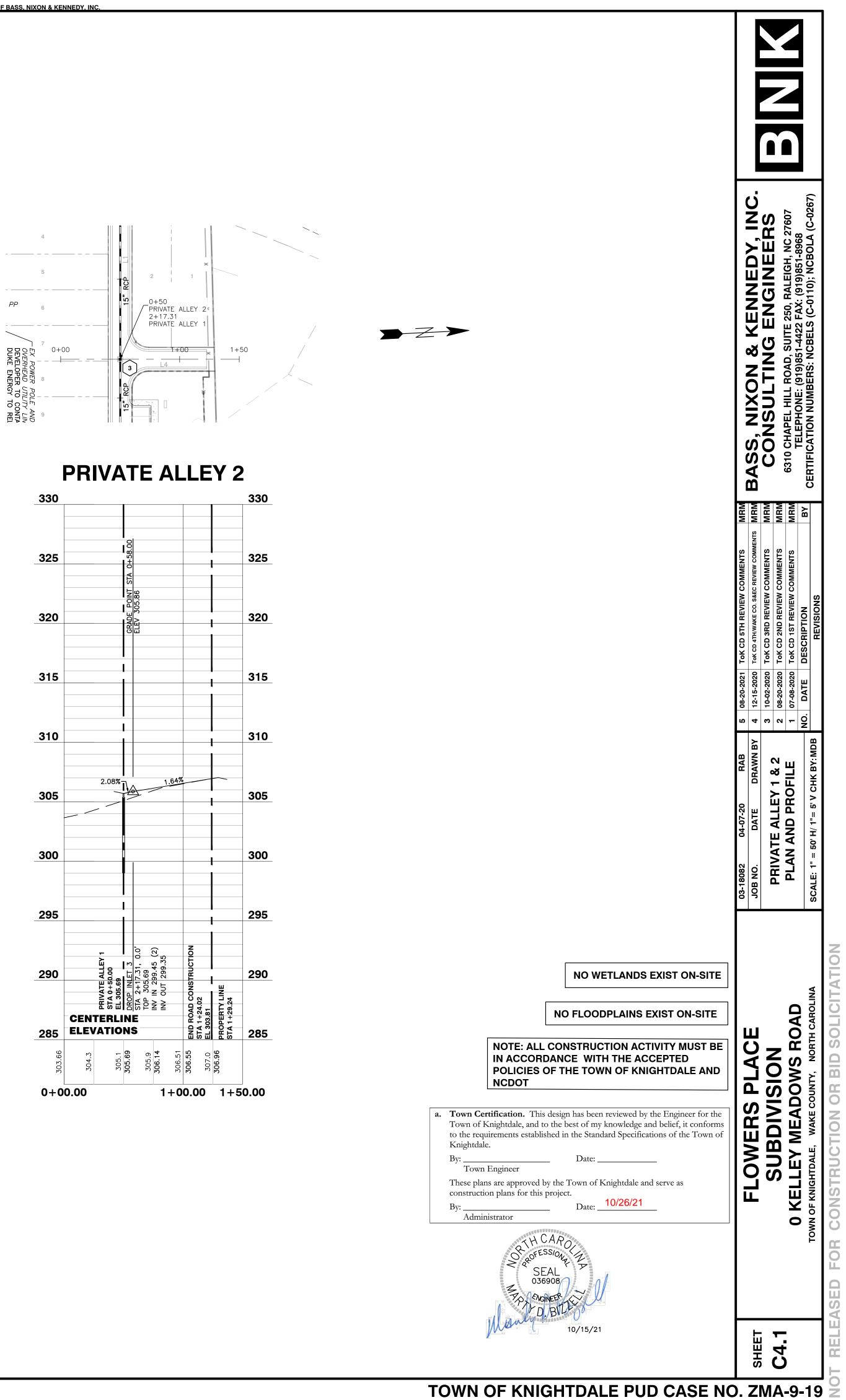
XON & KENNEDY, INC.	GONSULTING ENGINERS 6310 CHAPEL HILL ROAD, SUITE 250, RALEIGH, NC 27607 TELEPHONE: (919)851-4422 FAX: (919)851-8968 CERTIFICATION NUMBERS: NCBELS (C-0110); NCBOLA (C-0267)	
BASS, NIXON	GONSI 6310 CHAPEL TELEPHO RTIFICATION N	
08-20-2021 ToK CD 5TH REVIEW COMMENTS MRM 12-15-2020 ToK CD 5TH REVIEW COMMENTS MRM	3 10-02-2020 1 OK CD 3HD REVIEW COMMENTS MIKIN 2 08-20-2020 T K CD 2ND REVIEW COMMENTS MRM 1 07-08-2020 T K CD 15T REVIEW COMMENTS MRM NO. DATE DESCRIPTION BY CER REVISIONS	
04-07-20 DATE DRAWN BY	NCG01 PLAN T.S. CHK BY: MDB	
03-18082 04 JOB NO.	NCGC SCALE: N.T.S.	
• 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: Maininistrator	SUBDIVISION 0 KELLEY MEADOWS ROAD TOWN OF KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA	SED FOR CONSTRUCTION OR BID SOLICITATION
10/15/21	C3.4	r released

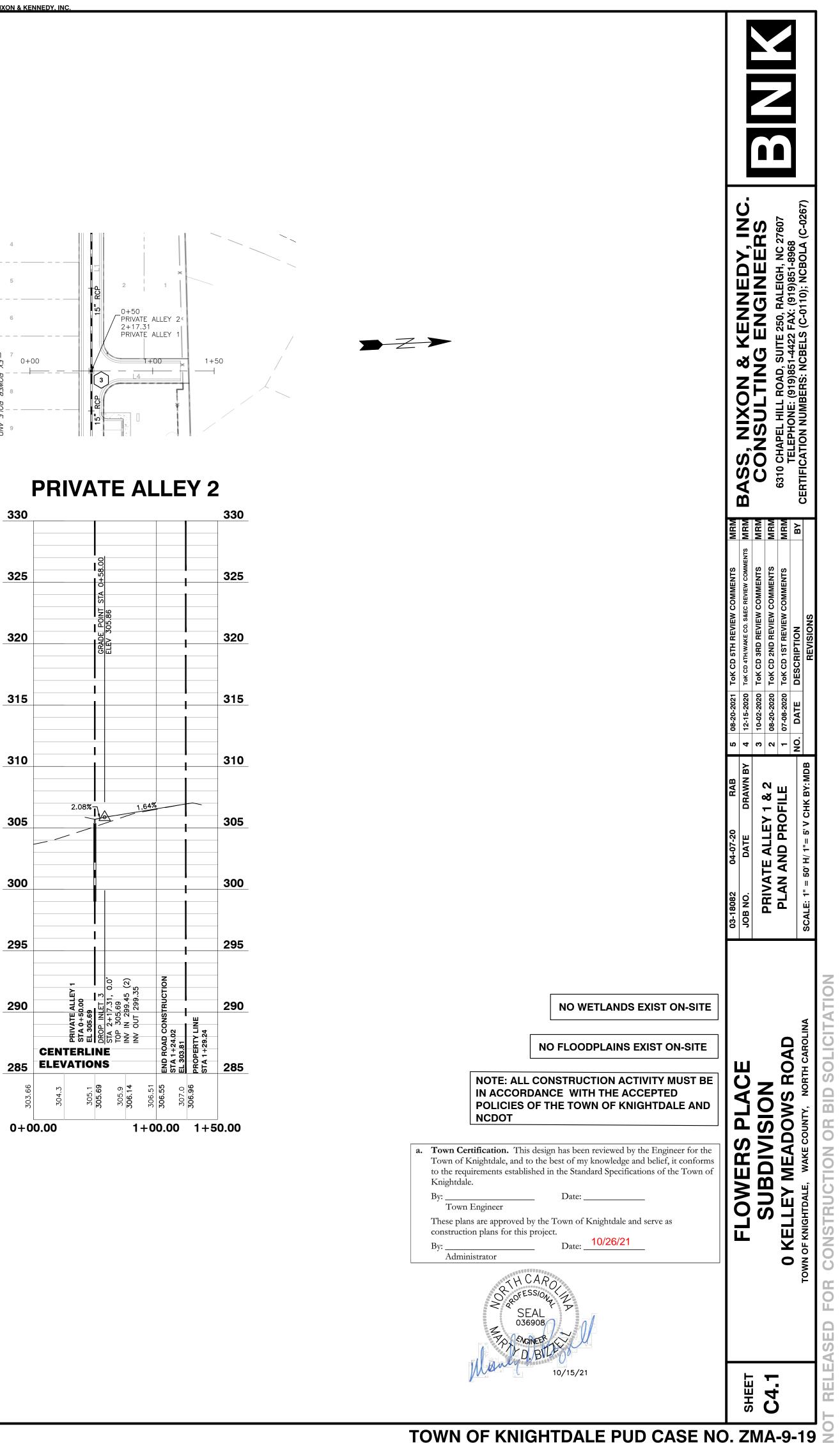
TOWN OF KNIGHTDALE P

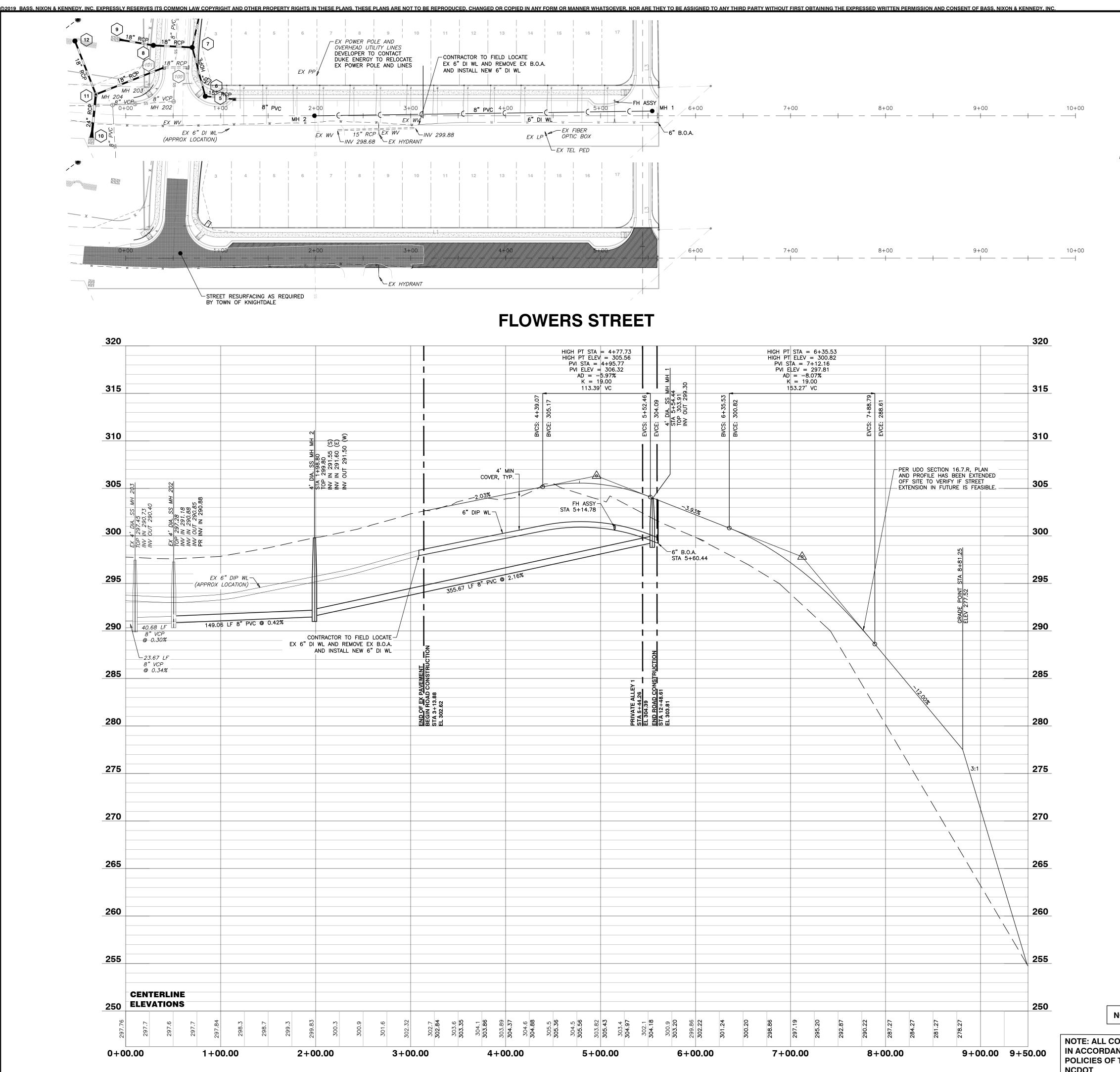












IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF KNIGHTDALE AND NCDOT

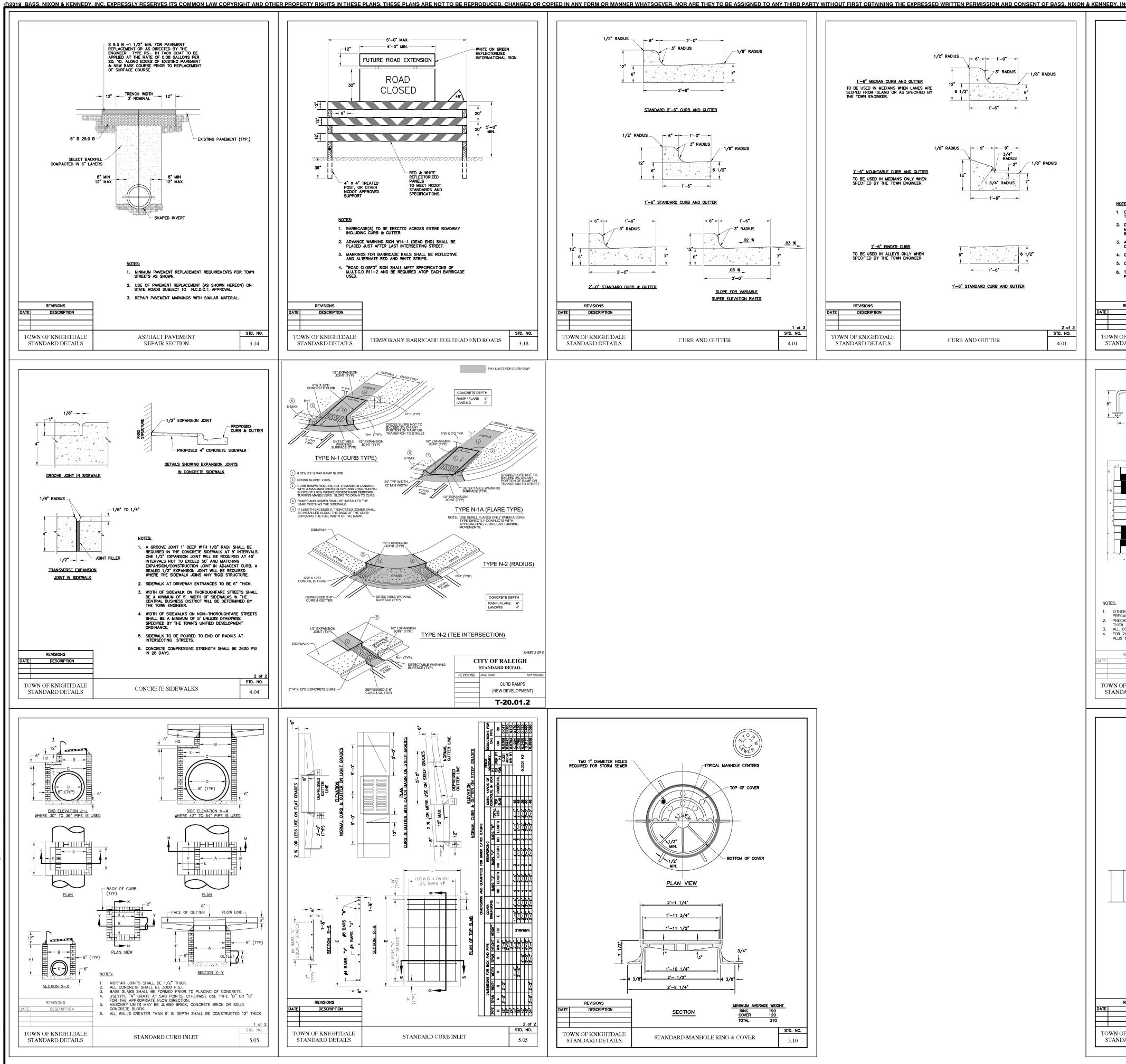
	BASS, NIXON & KENNEDY, INC. CONSULTING ENGINEERS 6310 CHAPEL HILL ROAD, SUITE 250, RALEIGH, NC 27607 TELEPHONE: (919)851-4422 FAX: (919)851-8968 CERTIFICATION NUMBERS: NCBELS (C-0110); NCBOLA (C-0267)
ATTENTION CONTRACTORS The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for	MRM MRM MRM MRM MRM MRM MRM
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. SITE PERMITTING APPROVAL Water and Sewer Permits (if applicable)	5 08-20-2021 ToK CD 5TH REVIEW COMMENTS 7 4 12-15-2020 ToK CD 3RD REVIEW COMMENTS 7 3 10-02-2020 ToK CD 3RD REVIEW COMMENTS 7 2 08-20-2020 ToK CD 2ND REVIEW COMMENTS 7 1 07-08-2020 ToK CD 1ST REVIEW COMMENTS 7 NO. DATE DESCRIPTION 7 REVISIONS
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 # <u>- S-4609X</u> 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 Utilities Department Permit # <u>- W-3700</u> The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions 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 # <u></u> 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	03-18082 04-07-20 RAB JOB NO. DATE DRAWN BY FLOWERS ST. WIDENING & PUBLIC SANITARY SEWER PUBLIC SANITARY SEWER PLAN AND PROFILE SCALE: 1" = 50' H/ 1"= 5' V CHK BY: MDB
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:	FLOWERS PLACE SUBDIVISION 0 KELLEY MEADOWS ROAD TOWN OF KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA
10/15/21	ц о
	SHEE C4.

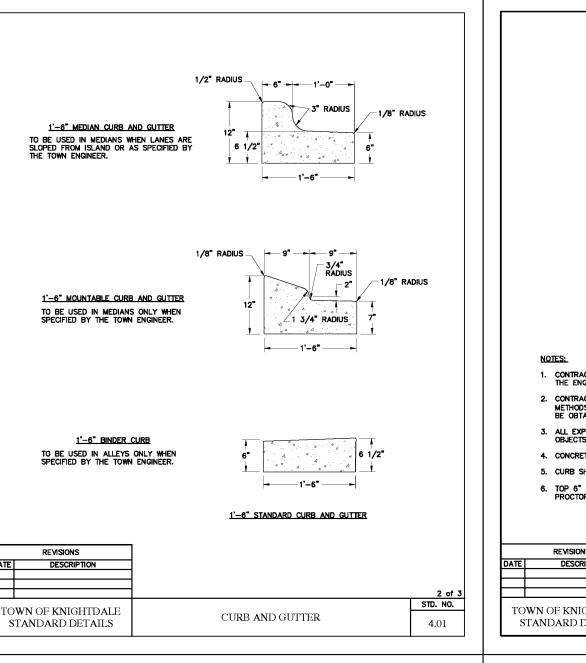
TOWN OF KNIGHTDALE PUD CASE NO. ZMA-9-19 $\stackrel{\circ}{\sim}$

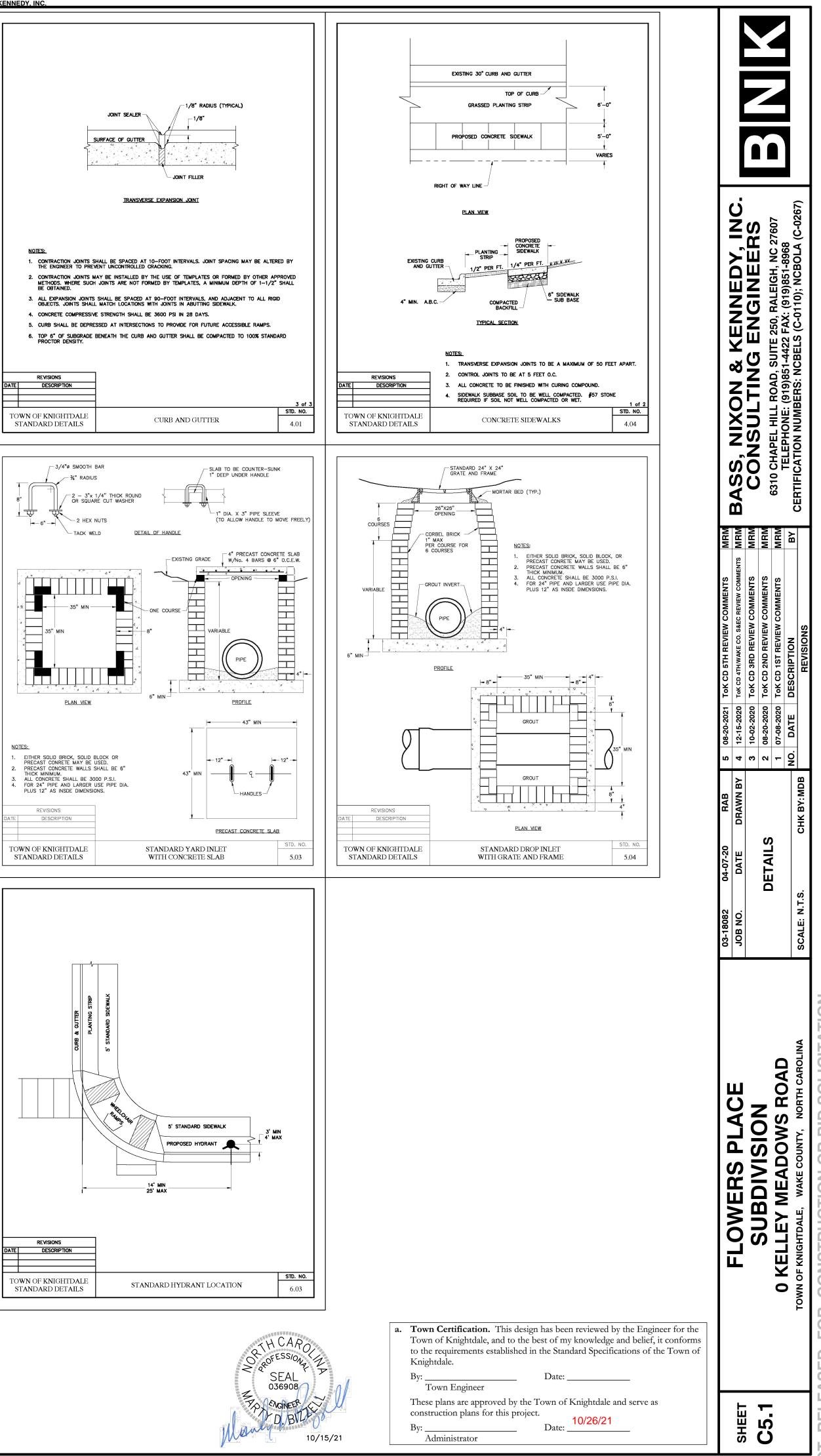
NO WETLANDS EXIST ON-SITE

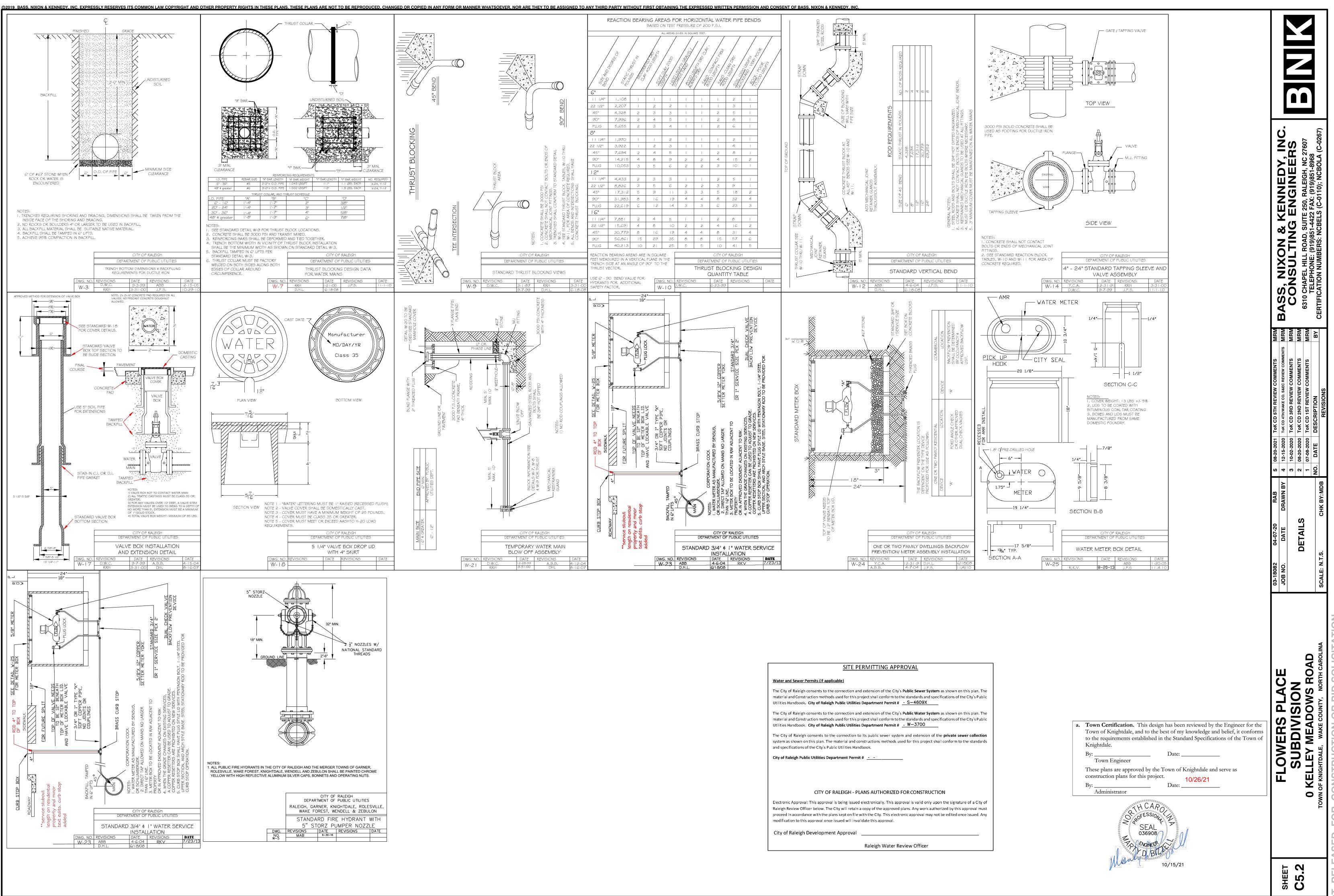
NO FLOODPLAINS EXIST ON-SITE

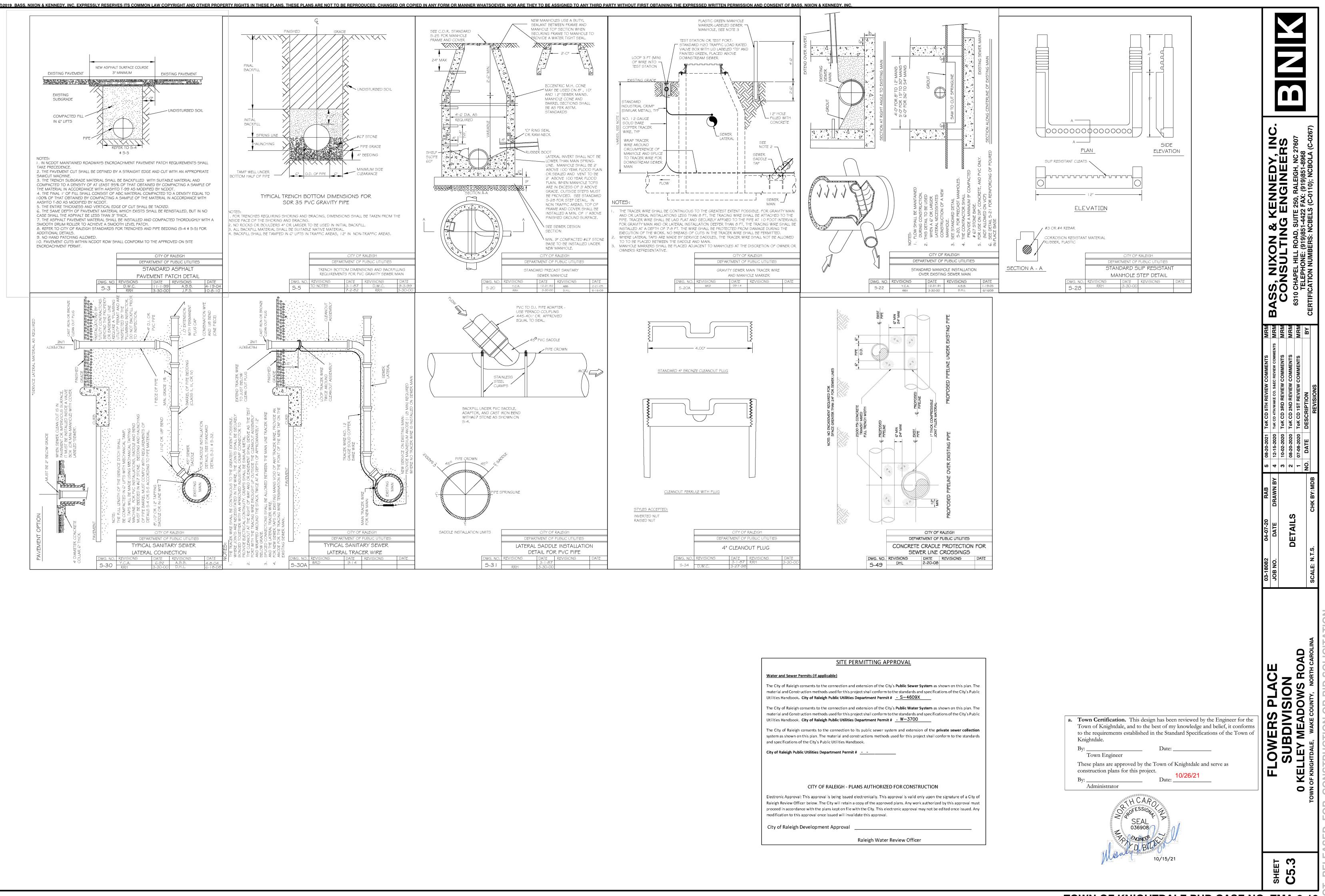
NOTE: ALL CONSTRUCTION ACTIVITY MUST BE



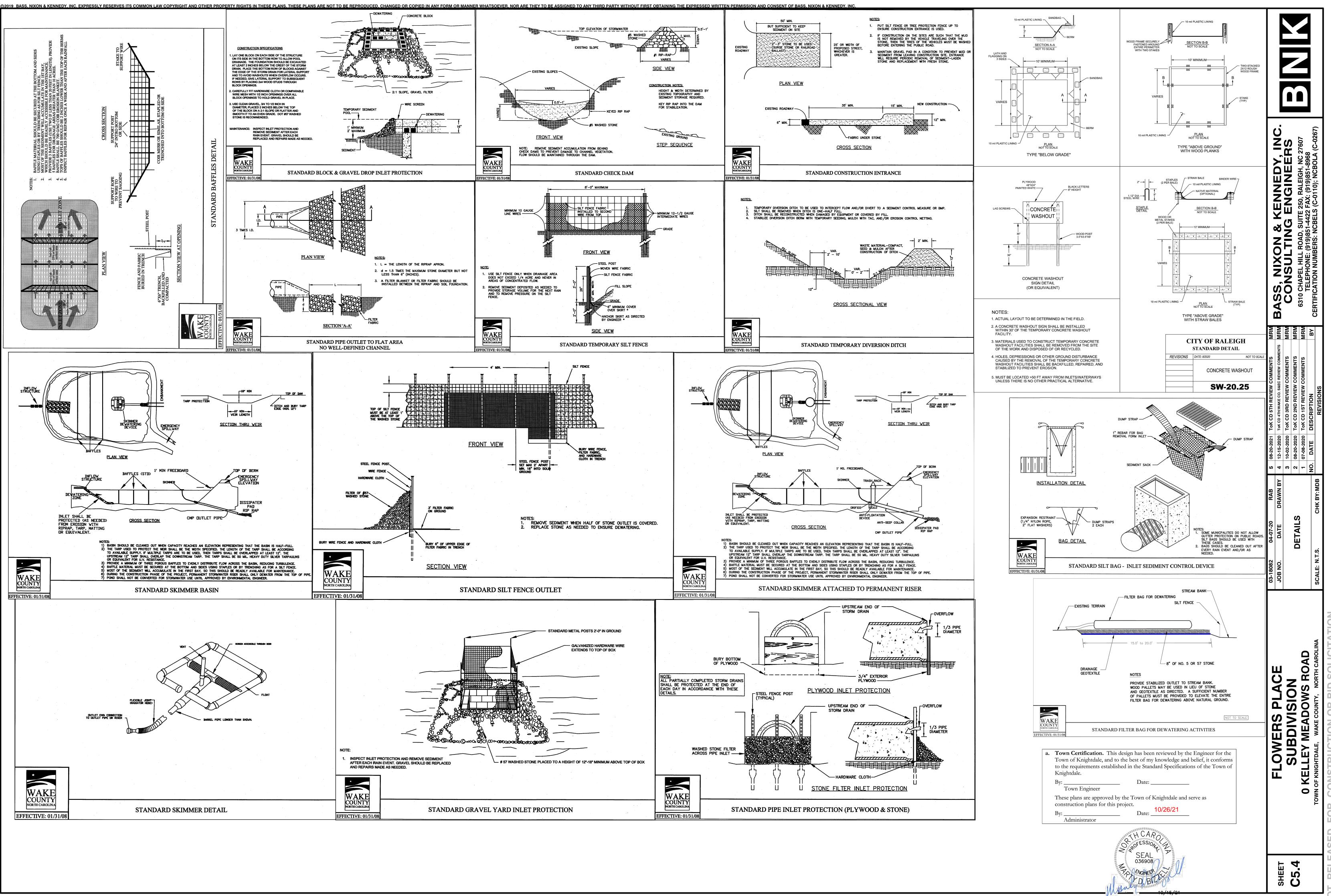


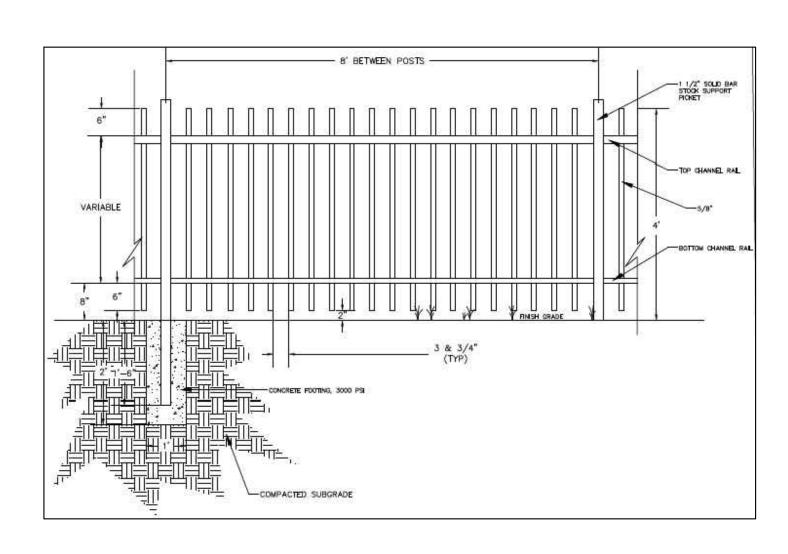






SITE	PERMITTING APPROVAL





4' ALUMINUM FENCE (BLACK)

SCALE: N.T.S.

9/22/2020

384 Sq. Premium Park Grill - The Park Catalog



The Park Catalog 220 Congress Park Drive, Suite 215 Delray Beach FL 33445 5616207878 sales@theparkcatalog.com



384 Sq. Premium Park Grill

Be the first to review this product <u>form)</u>

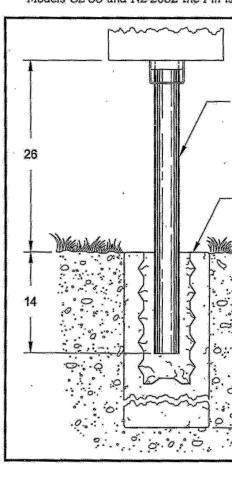
\$237.00

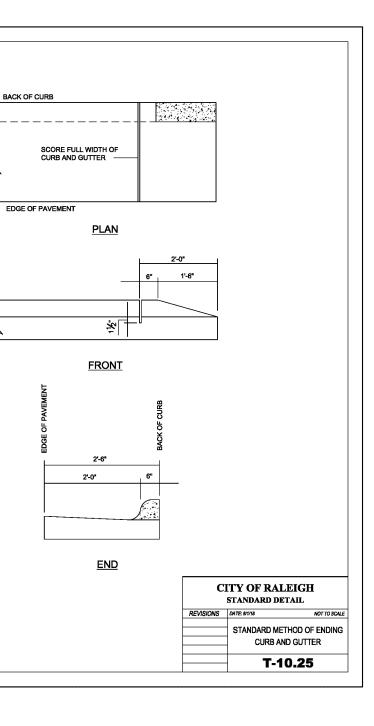


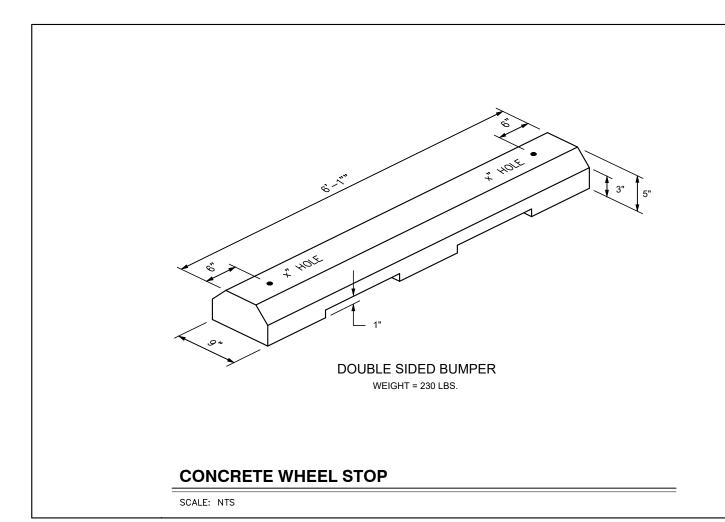
©2019 BASS, NIXON & KENNEDY, INC. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN PERMISSION AND CONSENT OF BASS, NIXON & KENNEDY, INC.

- 1. Use a post hole digger to make a hole a minimum of 12" dia. x 36" deep. Fill the hole with concrete (see Fig. 1).

 Insert the provided Locking Pin through the aligned holes leaving an equal length of pin protruding from each side of the Swivel Mechanism (see Fig. 2). **NOTE:** Figs. 1 & 2 show a grill design without a reinforce-ment ring on the bottom of the grill box. Models A-20 and B-24 do have a reinforcement ring and it works best to insert the Locking Pin from the back side of the Grill. Pass the Pin under the ring and angle up slightly to the swivel hole. On Models C2-36 and N2-2032 the Pin is inserted through the









Destination: _	
-	\$.
Model #:	
Order #:	

GRILL POST BASE INSTALLATION, GRILL LOCKING, and MAINTENANCE INSTRUCTIONS

NOTE: Local soil conditions may require a larger footing. Check local codes. This footing size applies to Models

A-20, B-24, C2-36, H-16, J-20, K-20, N-20, N/G-20, NS-20, N-24, N/G-24, N2-2032, Q-20, Q/G-20, Q-24, and Q/G-24. Concrete footing recommendations for Models D2-48, L-1500, P-1000, and Q3-2460 are on page 2.

Take the end of the Post Base that has 2 holes in it and place the opposite end into the concrete. Install the Post 26" above ground level and plumb vertically (see Fig. 1). Allow the concrete to cure before installing the Grill on the Post.

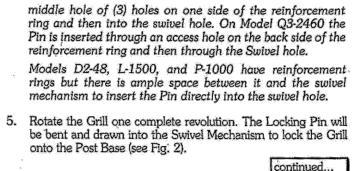
Install the Grill on the Post Base. Line up the holes in the Grill Swivel Mechanism with the holes in the Post Base (see Fig. 2).

(Fig. 1)

- PLUMB POST VERTICALLY

- 12 DIA, MIN

36 MIN

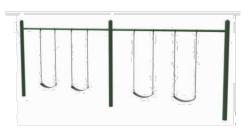


 $\sim\sim\sim\sim\sim\sim$ ROTATE (1) COMPLETE REVOLUTION FIREBOX ----LOCKING PIN -MECHANISM Fig. 2 - POST BASE

DO NOT DISCARD!



Playground Equipment List for Flowers Place, Knightdale Swing Set



Vendor: Sports Play- 4 seats, single posts Durable 4.5" single posts (7 gauge pipe Top Rail is 2 3/8 in diameter (11 gauge pipe) 8" tall swing beam Weight limit of 200 lbs. per swing

Bouncy Spring Animals/Truck

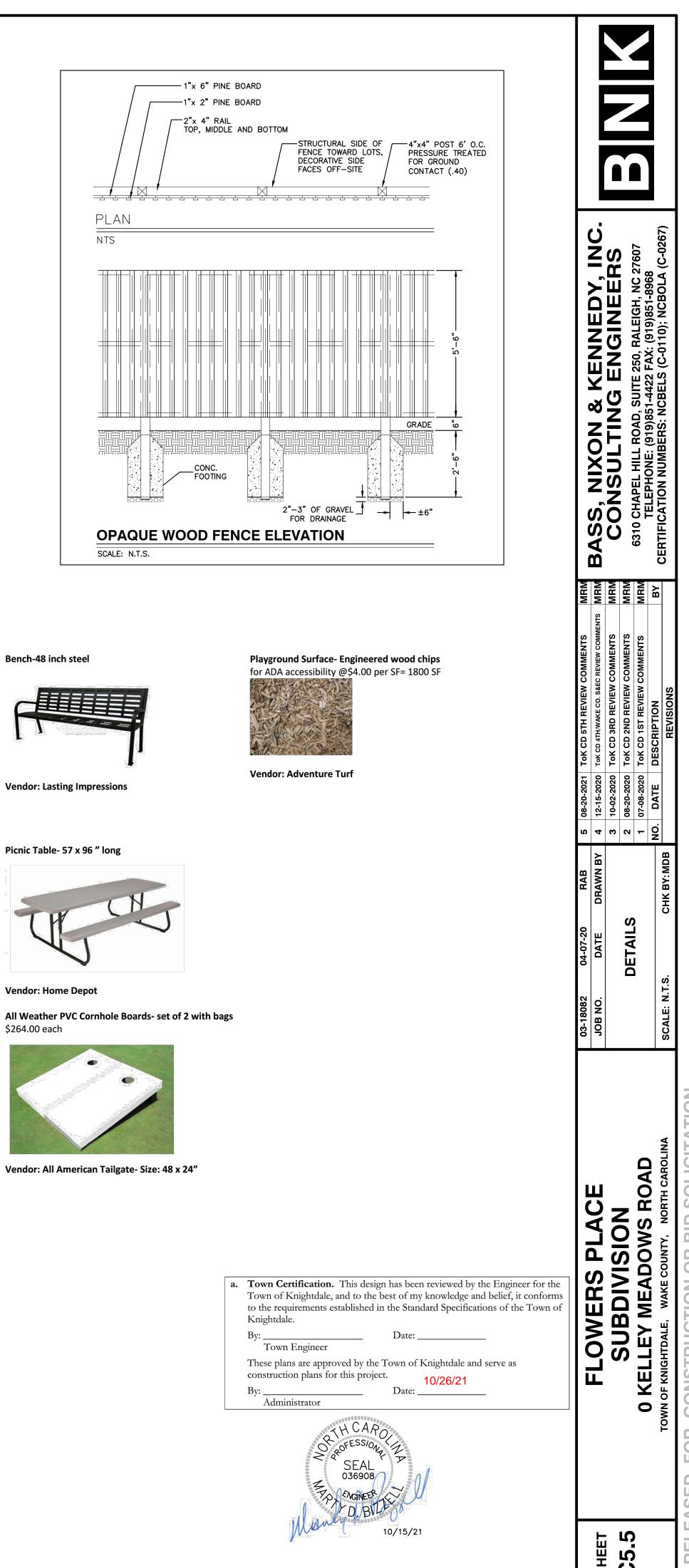


Vendor: PlaygroundEquipment.com Space Required 13' 2" x 19' 11" (4,01m x 6,06m)

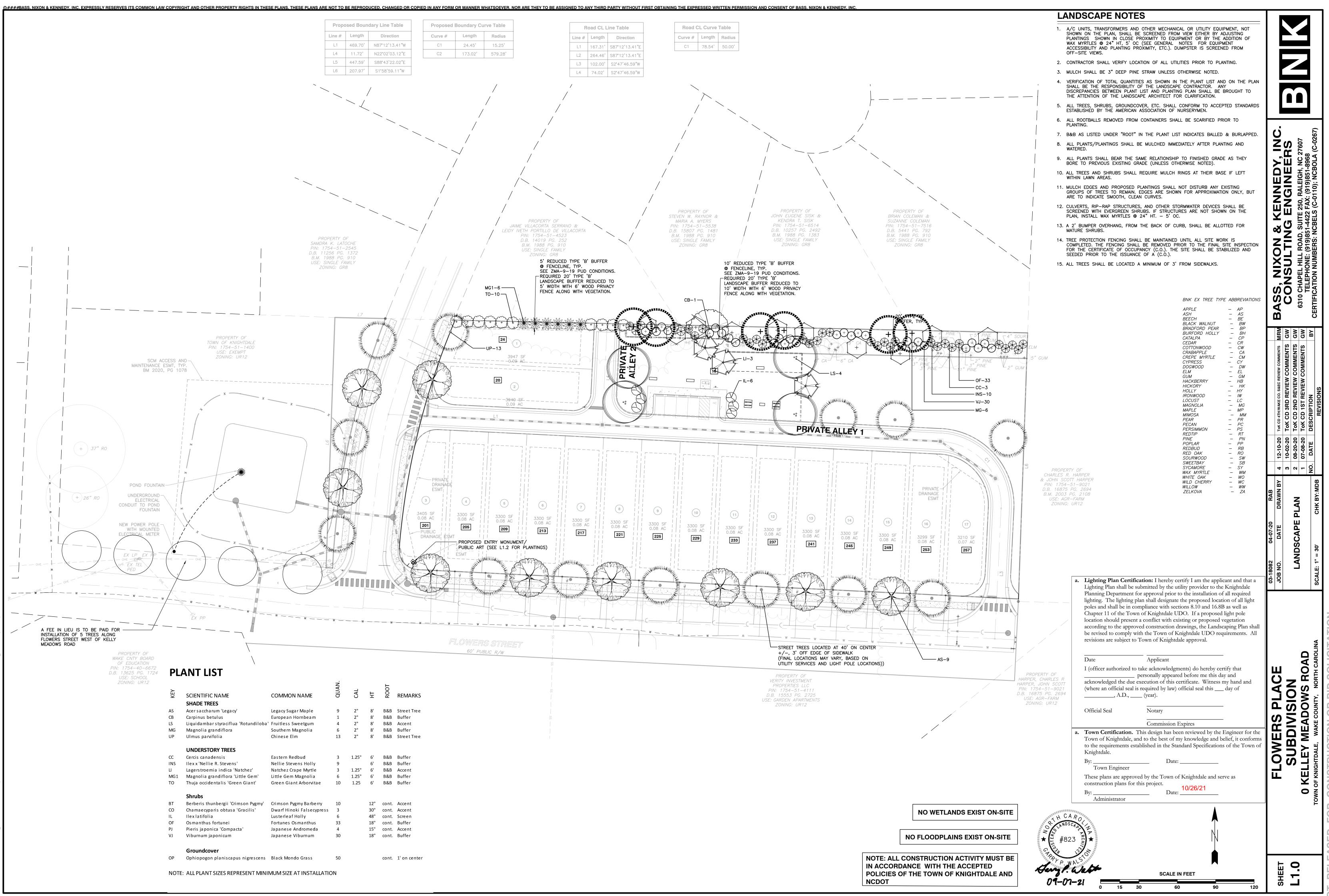
Free Standing Glide Slide (48-in deck)

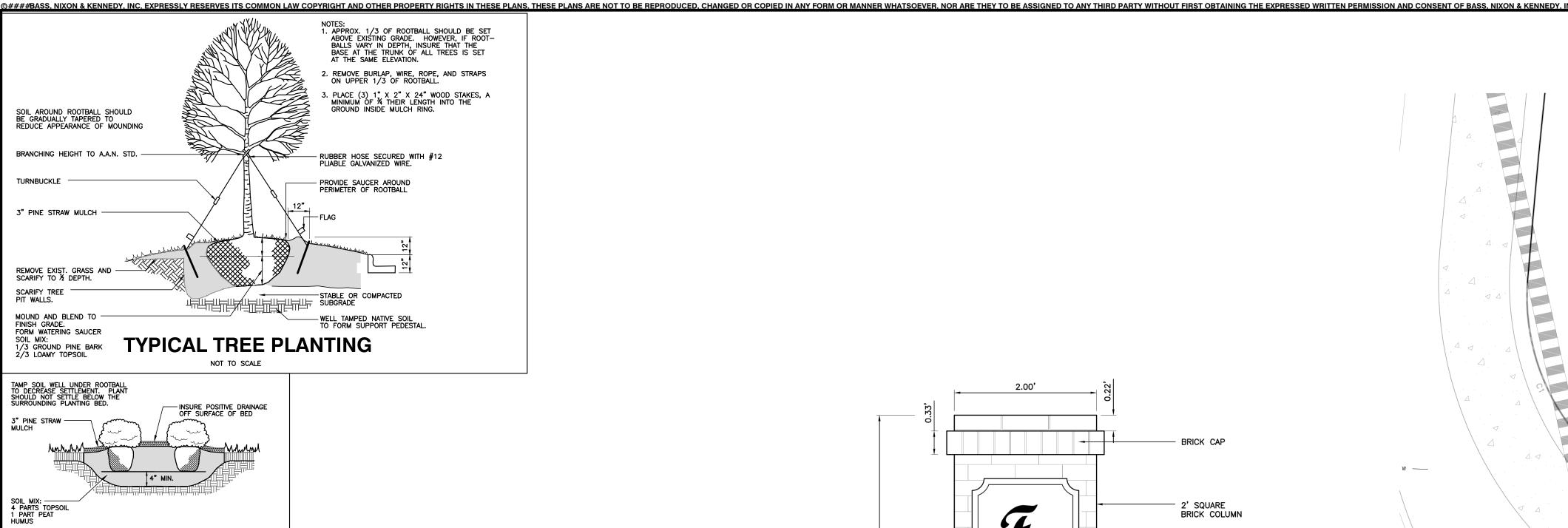


Vendor: PlayWorld Space Required 15' 2" x 24' 6" (4,61m x 7,48m)

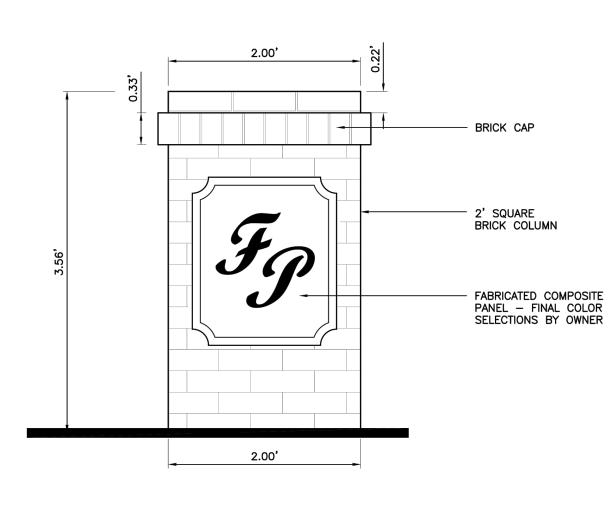


Ϋ́ Ο TOWN OF KNIGHTDALE PUD CASE NO. ZMA-9-19 \ge



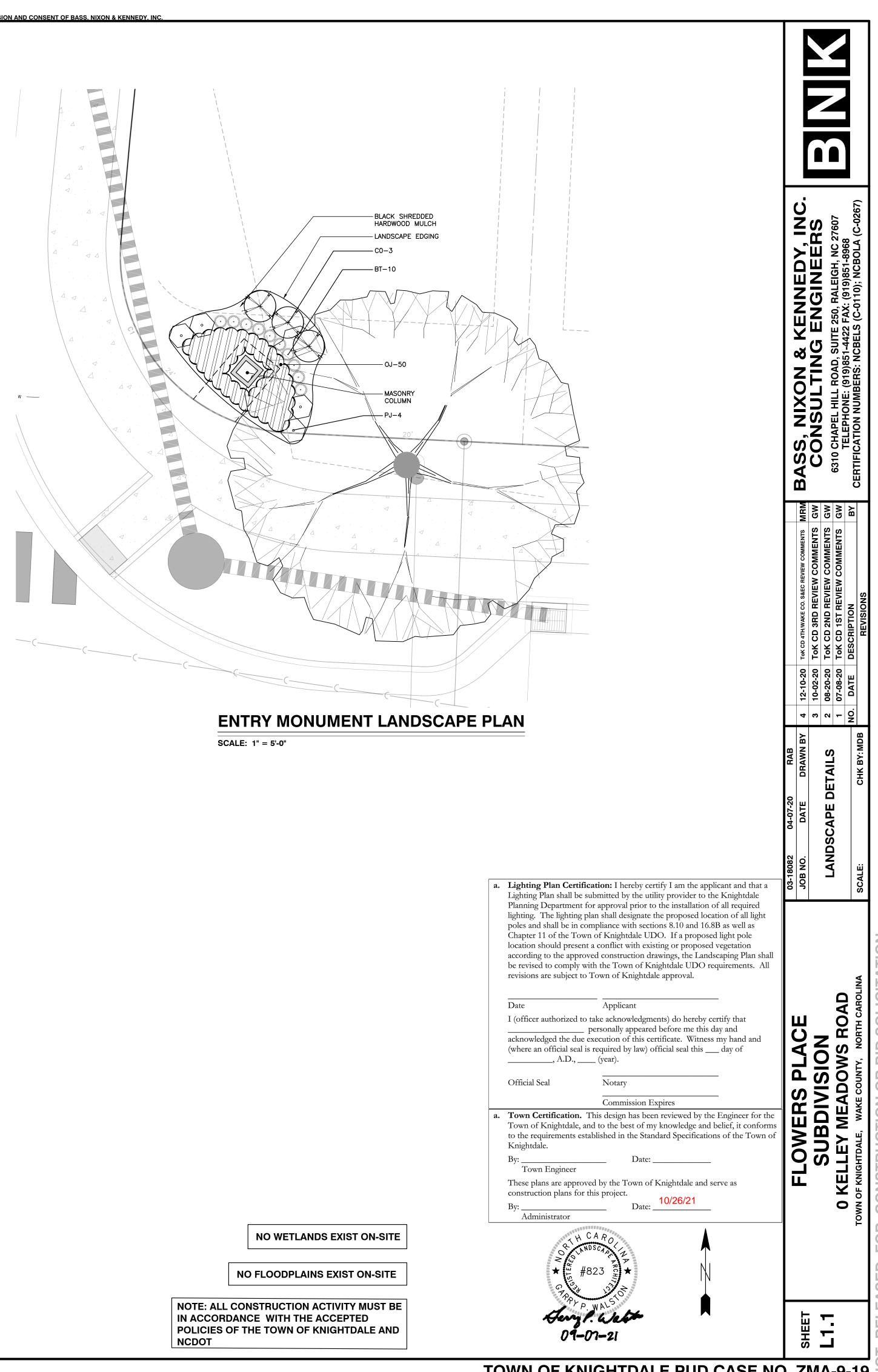


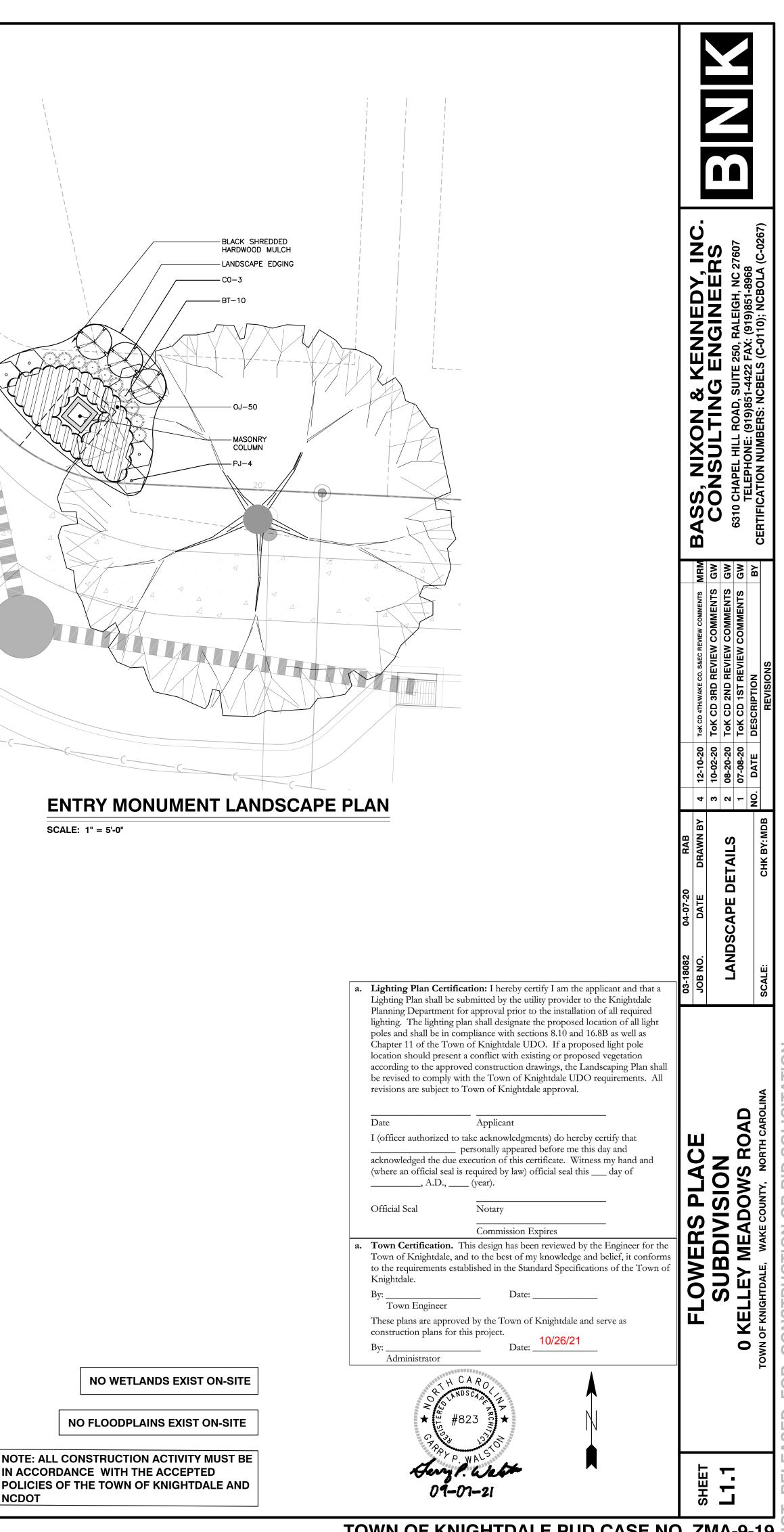
CONTINUOUS SHRUB PLANTING NOT TO SCALE

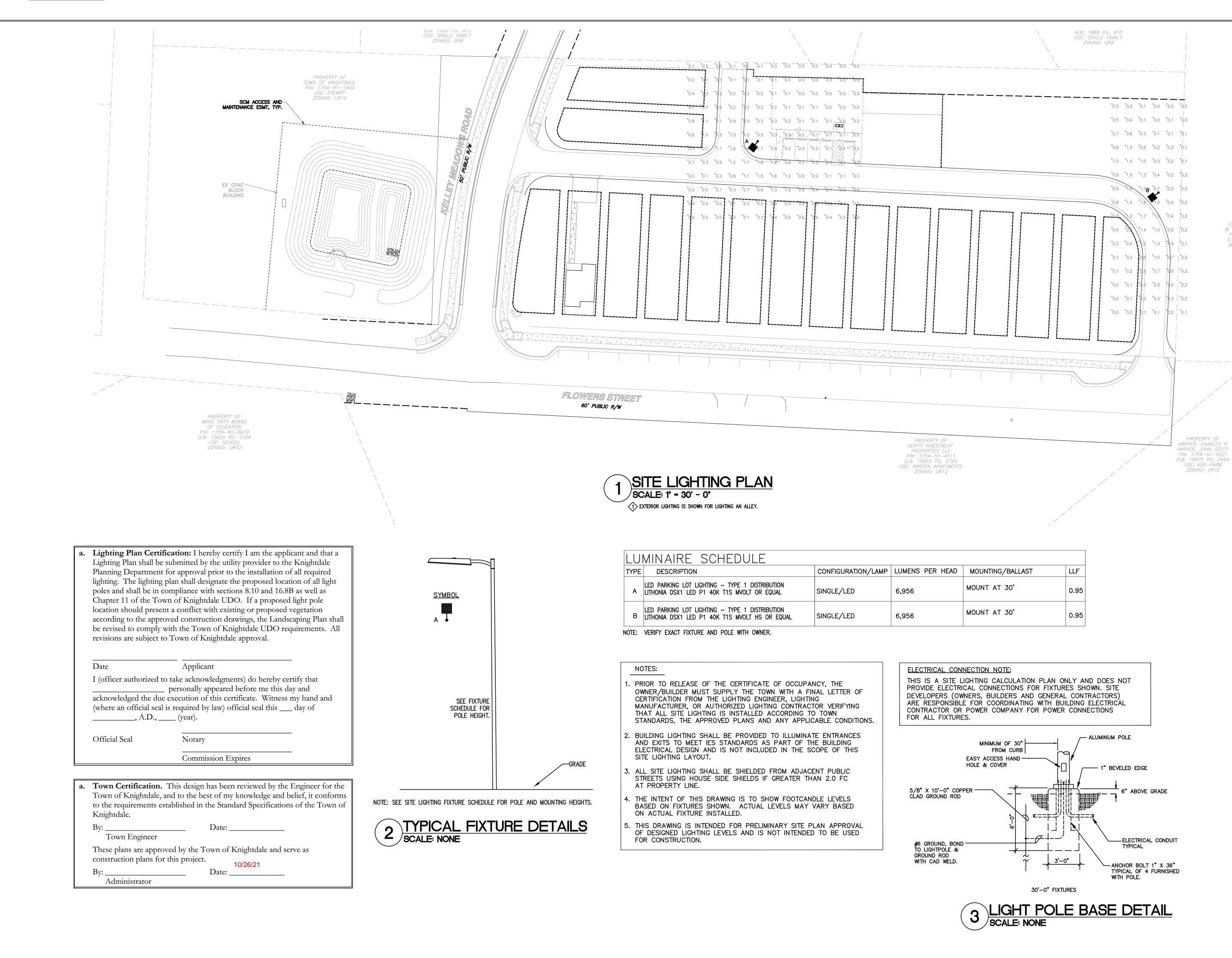


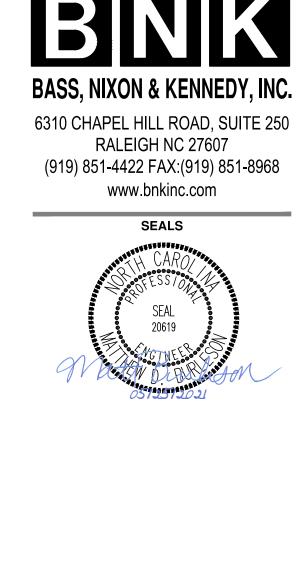
ENTRY MONUMENT ELEVATION

SCALE: 1" = 1'-0"





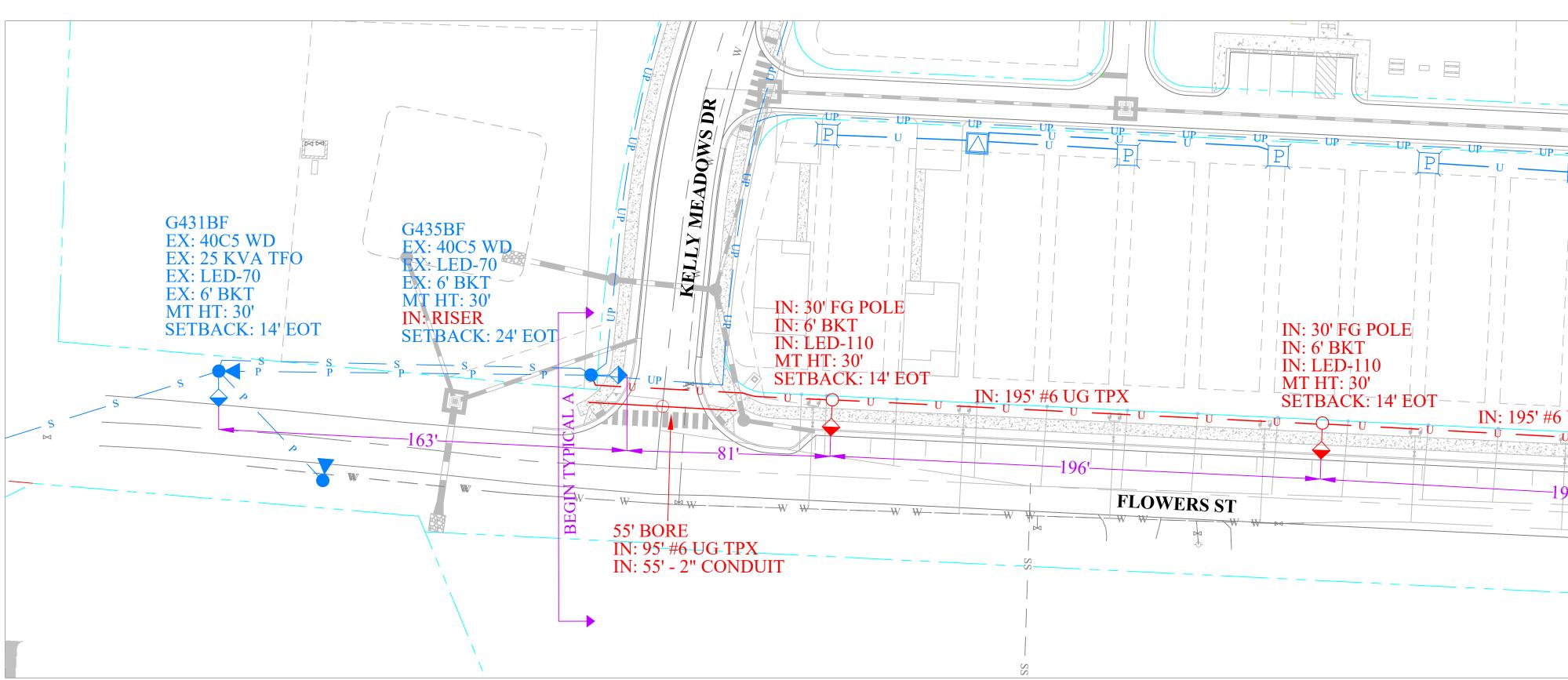




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	REVISIONS	
NUMBER	DESCRIPTION	DATE
	SHEET	
DRAWN BY: C	МС	
CHECKED BY: N	IDB	
date issued: 05	/25/2021	
SHEET NAME:		
SITE LIGH	ITING	
SHEET		
NUMBER:		
C	L-10 ⁻	1

1 of 1 TOTAL: 1



FOR CONSTRUCTION DETAILS, REFER IN PARTICULAR TO THE FOLLOWING PE SPECIFICATION DRAWINGS

DRAWING NUMBER	DRAWING TITLE
22.01-104	TRENCH DETAILS
03.02-100	SECONDARIES & SE
30.02-120	LIGHTING BRACKE STEEL & FIBERGLAS
30.09-101	GRAY FIBERGLASS LIGHTING INSTALL
30.08-124	MOUNTING HEIGHT LUMINAIRES

NOTES

1. LIGHTING LEVELS ARE BASED ON ONE-SIDED LIGHTING FOR THE ROADWAY.

2. ALL LUMINARIES WILL BE 110 LED ROADWAY TYPE III, 4000K, RECTANGLE PATTERN WITH PHOTOCELLS AND BALLAST, RATED: 12,415 LUMENS 240V.

3. ALL LIGHTING WITH UNDERGROUND SERVICE WILL BE INSTALLED ON FIBERGLASS POLES LOCATED INSIDE OF ROAD R/W.

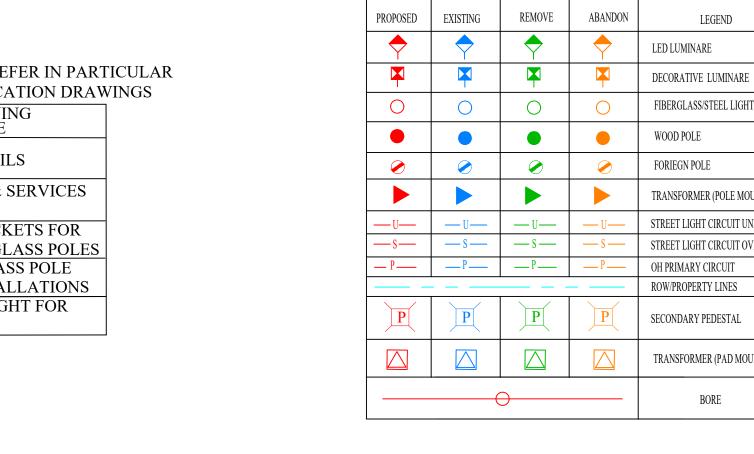
4. MOUNTING HEIGHT FOR LIGHTING FIXTURES: 30' WITH 6' BRACKET ON NEW FBGL POLES.

5. MINIMUM SETBACK OF NEW LIGHTING POLES IS 10' BACK OF TRAVEL LANE WHERE CURB AND GUTTER EXISTS. DESIGN SETBACK IS 14'-20' BACK OF THE CURB AND GUTTER OR APPROX 1 FOOT BEHIND SIDEWALK.

6. ALL POWER SOURCES WILL BE FROM DUKE ENERGY-PROGRESS FACILITIES.

7. ALL CONSTRUCTION WILL COMPLY WITH NESC REQUIREMENTS AND DUKE ENERGY-PROGRESS SPECIFICATIONS. REFER TO THE DUKE ENERGY-PROGRESS DRAWINGS LISTED.

> PERSONAL AR > ACTIVE CARRI > HAZARD REC	CCOUNTABILITY ?	Safe REMEMBER: Work zone	ety Reminders / Adven		r this job! Ev	eryone is respo	nsible for	WZS: 5 WZS: 5 WZS: 1 WZS:	SET PROPEF SET PROPEF REMEMBER	R WORK Z R SIGNS, C . WALK A	CIRCLE OF SA CONE NEEDED CONES, AND ROUNDS AND Formation is c	D BARRICAD D PRETRIP	
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NO.	DATE			REVIS	SION						BY		



IES REQUIREMENTS LOCAL/INTERMEDIATE	ACTUAL							
AVE. MAINT. FC : AVE. / MIN. RATIO :	0.7 6:1 0.4·1	MIN. MAX. MAX	0.81 5.69:1 0.27:1					
LIGHTING LEVELS CA AVG DAILY TRAFFIC DESIGN SPEED LIMIT	VEILING LUMS RATIO : 0.4:1 MAX. 0.27:1 LIGHTING LEVELS CALCULATED USING ALADAN/LI AVG DAILY TRAFFIC: N/A DESIGN SPEED LIMIT: N/A ACTUAL SPEED LIMIT: N/A AVG SPAN DISTANCE: 150 EEET							

