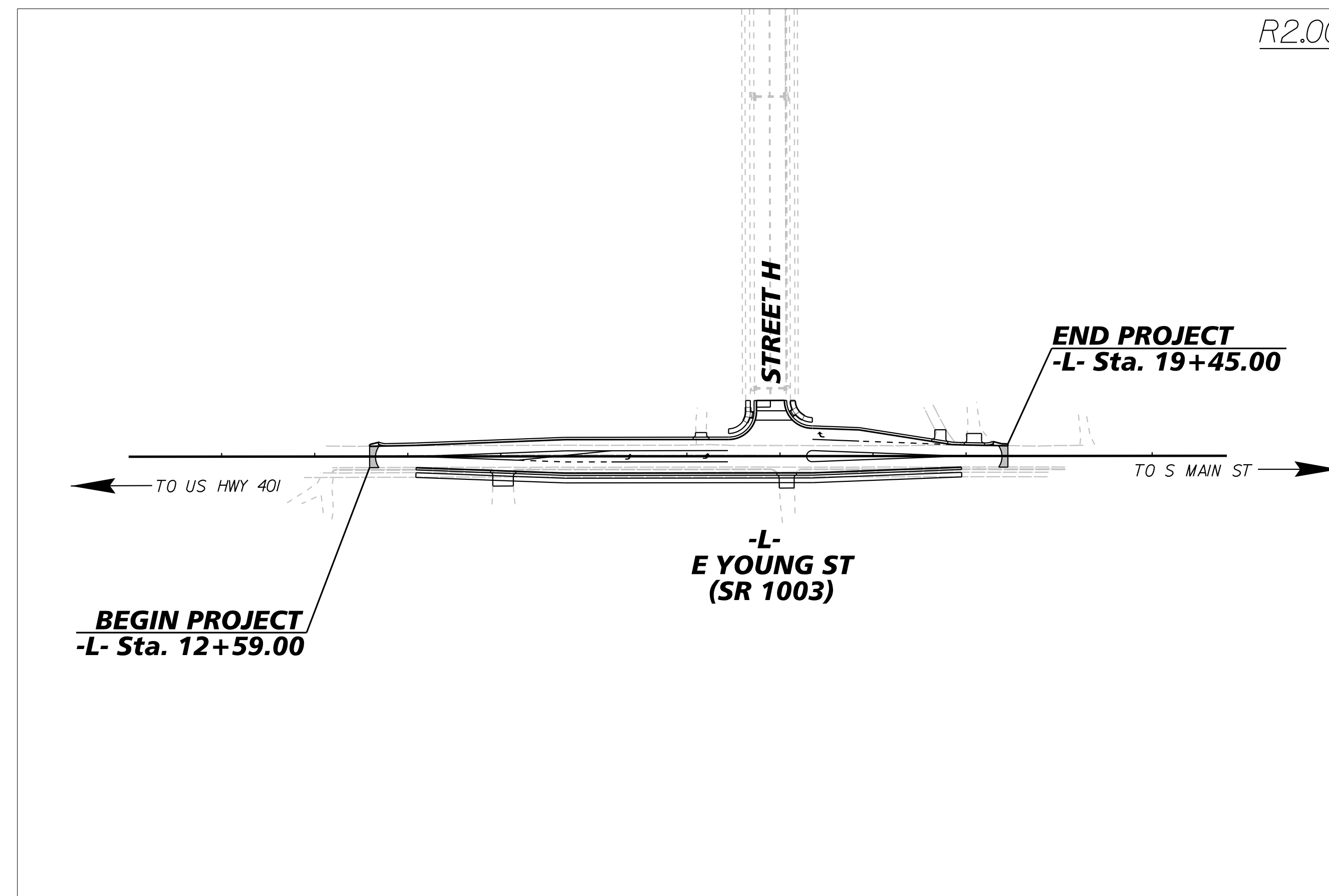


**PARKER RIDGE  
OFFSITE IMPROVEMENTS  
ROLESVILLE, NC**

**LOCATION: E. YOUNG STREET (SR 1003) FROM  
APPROX. 2100' NORTH OF THE INTERSECTION OF  
US HWY 401 AND E YOUNG ST (SR 1003)  
TO APPROX. 1400' SOUTH OF THE INTERSECTION OF  
S MAIN ST AND E YOUNG ST (SR 1003)**



DEVELOPER:

LENNAR CAROLINAS, LLC  
1100 PERIMETER PARK DR. SUITE 112  
MORRISVILLE, NC 27560  
MICHAEL TAYLOR  
919.465.5903  
michael.taylor@lennar.com

ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC.  
300 MORRIS ST. SUITE 200  
DURHAM, NC 27701  
TYLER WHITE, P.E.  
919.677.2074  
tyler.white@kimley-horn.com

SURVEYOR:

ADVANCED CIVIL DESIGN  
51 KILMAYNE DRIVE, SUITE 102  
CARY, NORTH CAROLINA, 27511  
CAMERON RICE  
919.481.6290  
crice@advancedcivildesign.com

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## INDEX OF SHEETS

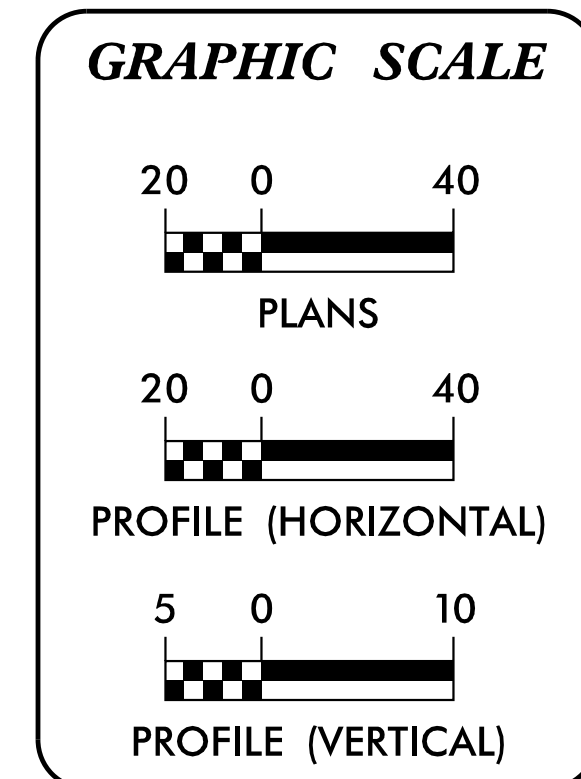
SHEET NO.	DESCRIPTION
R0.00	TITLE SHEET
R0.01	PROJECT NOTES
R0.02	CONVENTIONAL SYMBOLS
R1.00	TYPICAL SECTIONS
R1.01 THRU R1.02	DETAILS
R1.03	DRAINAGE SUMMARY SHEET
R1.04	EXISTING CONDITIONS
R2.00	PLAN VIEW
R3.00	TRAFFIC MANAGEMENT PLAN
R4.00	PAVEMENT MARKING AND SIGNING PLAN
R5.00	EROSION CONTROL PLAN
R5.01 THRU 5.02	EROSION CONTROL DETAILS
R6.00 THRU R6.02	-L- CROSS SECTIONS



**CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION**

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[illegible]



*Note: Not to Scale*

*\*S.U.E. = Subsurface Utility Engineering*

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

**BOUNDARIES AND PROPERTY:**

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	

**BUILDINGS AND OTHER CULTURE:**

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

**HYDROLOGY:**

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Swamp Marsh	
Proposed Lateral, Tail, Head Ditch	
False Sump	

**RAILROADS:**

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

**RIGHT OF WAY:**

Baseline Control Point	
Existing Right of Way Marker	
Existing Right of Way Line	
Proposed Right of Way Line	
Proposed Right of Way Line with Iron Pin and Cap Marker	
Proposed Right of Way Line with Concrete or Granite Marker	
Existing Control of Access	
Proposed Control of Access	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Utility Easement	
Proposed Public Access Easement	

**ROADS AND RELATED FEATURES:**

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Wheel Chair Ramp	
Curb Cut for Future Wheel Chair Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	

**VEGETATION:**

Single Tree	
Single Shrub	
Hedge	
Woods Line	
Orchard	
Vineyard	

**EXISTING STRUCTURES:**

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

**UTILITIES:**

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
Recorded U/G Power Line	
Designated U/G Power Line (S.U.E.*)	

**TELEPHONE:**

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Booth	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
Recorded U/G Telephone Cable	
Designated U/G Telephone Cable (S.U.E.*)	
Recorded U/G Telephone Conduit	
Designated U/G Telephone Conduit (S.U.E.*)	
Recorded U/G Fiber Optics Cable	
Designated U/G Fiber Optics Cable (S.U.E.*)	

**WATER:**

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
Recorded U/G Water Line	
Designated U/G Water Line (S.U.E.*)	
Above Ground Water Line	

**TV:**

TV Satellite Dish	
TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
Recorded U/G TV Cable	
Designated U/G TV Cable (S.U.E.*)	
Recorded U/G Fiber Optic Cable	
Designated U/G Fiber Optic Cable (S.U.E.*)	

**GAS:**

Gas Valve	
Gas Meter	
Recorded U/G Gas Line	
Designated U/G Gas Line (S.U.E.*)	
Above Ground Gas Line	

**SANITARY SEWER:**

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
Recorded SS Forced Main Line	
Designated SS Forced Main Line (S.U.E.*)	

**MISCELLANEOUS:**

Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line	
U/G Tank; Water, Gas, Oil	
A/G Tank; Water, Gas, Oil	
U/G Test Hole (S.U.E.*)	
Abandoned According to Utility Records	
End of Information	

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**Kimley»Horn**

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PHONE: 919-682-3583  
WWW.KIMLEY-HORN.COM  
NC LICENSE # F-0102



KHA PROJECT	013829007
DATE	9/27/2023
SCALE	NTS
DESIGNED BY:	TOW
DRAWN BY:	JWV
CHECKED BY:	TOW

CONVENTIONAL  
SYMBOLS

PARKER RIDGE  
OFFSITE  
IMPROVEMENTS

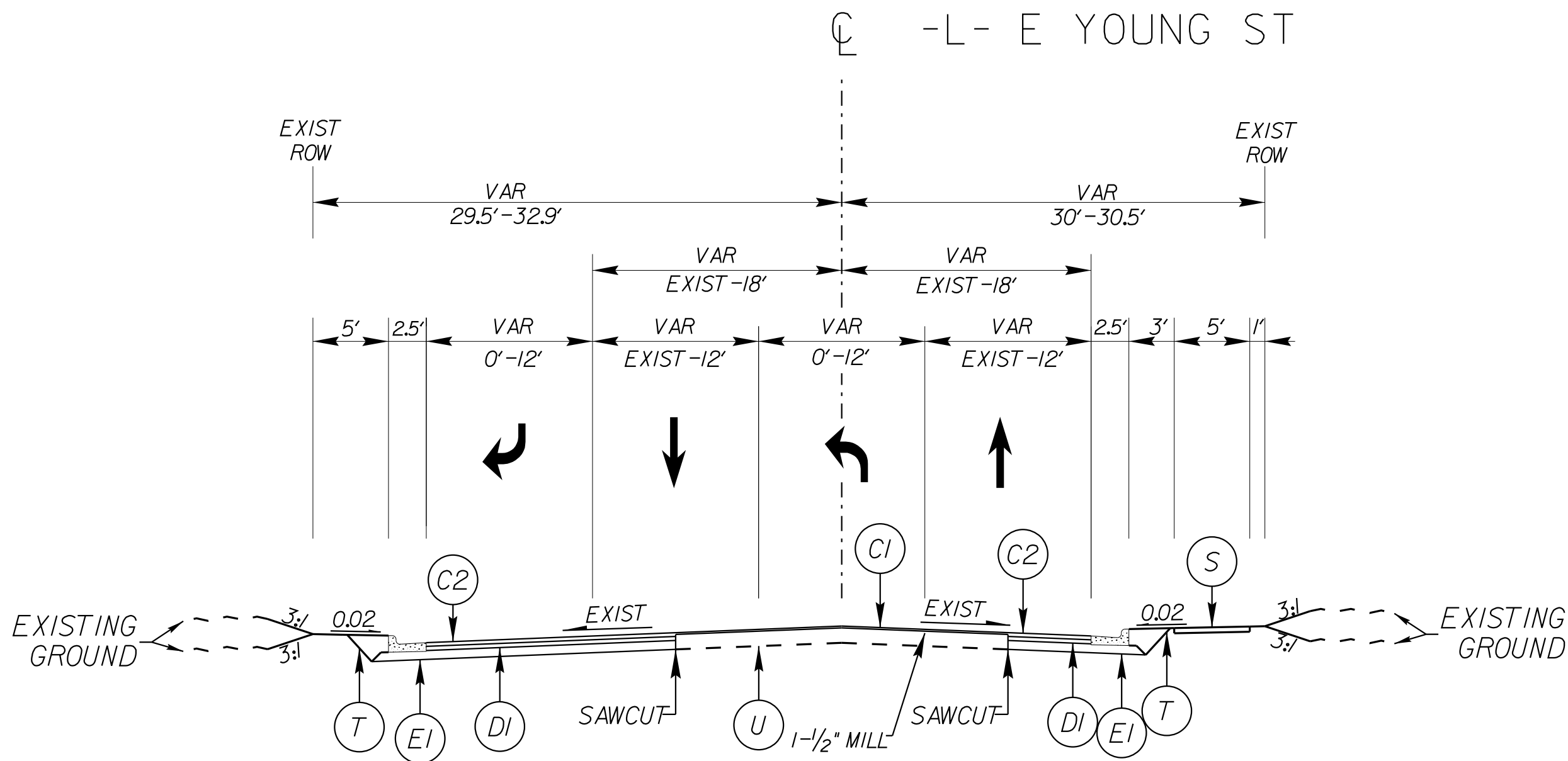
NORTH CAROLINA

SHEET NUMBER  
R0.02

9/27/2023 K:\DUR\_Roadway\013829007 - Parker Ridge OS\Plan\Plan Sheets\013829007\_hypadgn

PAVEMENT SCHEDULE	
C1	PROPOSED APPROX 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROPOSED APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
DI	PROPOSED APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
EI	PROPOSED APPROX. 5" ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
S	PROPOSED 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT

NOTES:  
1. REFER TO PLAN SHEETS FOR VARIABLE WIDTHS.  
2. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED





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

ENGLISH DETAIL DRAWING FOR  
MINIMUM DEPTH  
CONCRETE CATCH BASIN  
12" THRU 84" PIPE

SHEET 1 OF 2  
840D02

BACK OF CURB  
X  
Y  
PLAN

FRAME, GRATE AND HOOD  
SEE STD. NO. 840.03  
TOP ELEVATION  
SECTION X-X

GENERAL NOTES:  
USE CLASS "B" CONCRETE THROUGHOUT.  
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.  
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.  
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.  
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.  
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.  
FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.  
CONSTRUCT WITH PIPE CROWNS MATCHING.  
CHAMFER ALL EXPOSED CORNERS 1".  
\*\* FOR STRUCTURES WITH PIPE LARGER THAN 54", MAKE THE TOP SLAB 8" THICK.

TOP ELEVATION  
SECTION Y-Y

RISE RHT. VARIES

RISE RHT. VARIES

DETAIL SHOWING METHOD OF RISER CONSTRUCTION

FRAME, GRATE AND HOOD  
SEE STD. NO. 840.03  
TOP ELEVATION  
SECTION J-J

SEE NOTE

FRAME, GRATE AND HOOD  
SEE STD. NO. 840.03  
TOP ELEVATION  
SECTION M-M

PLAN

PLAN

SHEET 1 OF 3  
840D02

STATE OF  
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RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
MINIMUM DEPTH  
CONCRETE CATCH BASIN  
12" THRU 84" PIPE

SHEET 1 OF 3  
840D02

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ENGLISH DETAIL DRAWING FOR  
MINIMUM DEPTH  
CONCRETE CATCH BASIN  
12" THRU 84" PIPE

SHEET 2 OF 2  
840D02

PLAN OF TOP SLAB

SECTION S-S

SECTION R-R

DOWEL

EXPANSION JOINTS  
4'-6" 4'-6"  
STD. 840.03 FRAME, GRATE & HOOD  
PLAN  
CURB AND GUTTER WITH CATCH BASIN ON STEEP GRADES  
TOP ELEV.  
EXPANSION JOINT  
USE ON FLAT GRADES 2% AND UNDER  
EXPANSION JOINT  
DEPRESSED GUTTER LINE  
ELEVATION  
NORMAL CURB AND GUTTER ON LIGHT GRADES  
EXPANSION JOINT  
TOP ELEV.  
EXPANSION JOINT  
USE ON GRADES OVER 2%  
EXPANSION JOINT  
DEPRESSED GUTTER LINE  
ELEVATION  
NORMAL CURB AND GUTTER ON STEEP GRADES

\* RISER HAS .226 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

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

DIMENSIONS OF BOX AND PIPE										COVER DIMENSION		BARS-U				BARS-V		BARS-W		TOTAL LBS.	TOP SLAB	BOTTOM SLAB	DEDUCTIONS ONE PIPE	
PIPE D	SPAN A	WIDTH B	SPAN C	WIDTH D	MIN. HEIGHT H	E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	C.M.	R.C.					
12"	3'-0"	2'-2"	--	--	2'-0"	--	--	--	--	--	--	--	--	--	--	--	--	0.235	0.272	0.015	0.026			
15"	3'-0"	2'-2"	--	--	2'-3"	--	--	--	--	--	--	--	--	--	--	--	--	0.235	0.329	0.023	0.036			
18"	3'-0"	2'-2"	--	--	2'-6"	--	--	--	--	--	--	--	--	--	--	--	--	0.235	0.487	0.033	0.049			
24"	3'-0"	2'-2"	--	--	3'-1"	--	--	--	--	--	--	--	--	--	--	--	--	0.235	1.001	0.059	0.085			
30"	3'-0"	2'-2"	3'-4"	3'-4"	3'-10"	1'-2"	4'-4"	4	1'-5"	2	4'-1"	3	4'-1"	39	0.123	0.347	1.433	0.092	0.127					
36"	3'-0"	2'-2"	3'-10"	3'-10"	4'-6"	1'-8"	4'-10"	4	1'-11"	3	4'-7"	3	4'-7"	43	0.161	0.432	1.714	0.132	0.178					
42"	3'-0"	2'-2"	4'-5"	4'-5"	4'-11"	2'-2"	5'-5"	5	2'-5"	4	5'-2"	3	5'-2"	47	0.200	0.543	1.738	0.160	0.243					
48"	3'-0"	2'-2"	5'-0"	5'-0"	5'-6"	2'-10"	6'-0"	5	3'-1"	4	5'-9"	3	5'-9"	51	0.235	0.667	2.052	0.235	0.317					
54"	3'-0"	2'-2"	5'-7"	5'-7"	6'-0"	3'-5"	6'-7"	6	3'-8"	5	6'-4"	3	6'-4"	56	0.289	0.802	2.387	0.297	0.401					
60"	3'-0"	2'-2"	6'-3"	6'-3"	6'-6"	4'-1"	7'-3"	6	4'-4"	5	7'-0"	3	7'-0"	61	0.340	0.973	2.732	0.363	0.546					
66"	3'-0"	2'-2"	6'-11"	6'-11"	7'-0"	4'-8"	7'-11"	7	5'-0"	6	7'-8"	3	7'-8"	66	0.391	1.160	3.057	0.440	0.655					
72"	3'-0"	2'-2"	7'-8"	7'-8"	7'-6"	5'-3"	8'-8"	7	5'-8"	6	8'-3"	3	8'-3"	72	0.442	1.340	3.392	0.524	0.774					
78"	3'-0"	2'-2"	8'-1"	8'-1"	8'-0"	5'-11"	9'-1"	8	6'-2"	7	8'-10"	3	8'-10"	78	0.493	1.530	3.727	0.615	0.893					
84"	3'-0"	2'-2"	8'-8"	8'-8"	8'-8"	6'-7"	9'-9"	8	6'-10"	7	9'-6"	3	9'-6"	84	0.544	1.760	4.082	0.713	1.010					

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ENGLISH DETAIL DRAWING FOR  
MINIMUM DEPTH  
CONCRETE CATCH BASIN  
12" THRU 84" PIPE

SHEET 2 OF 2  
840D02

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PHONE: 919-682-3583  
WWW.KIMLEY-HORN.COM  
NC LICENSE # F-0102

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION  
ENGINEER  
TYLER D. WHITE

KHA PROJECT  
013829007  
DATE  
9/27/2023  
SCALE  
NTS  
DESIGNED BY:  
TDW  
DRAWN BY:  
JHV  
CHECKED BY:  
TDW

DETAILS

PARKER RIDGE  
OFFSITE  
IMPROVEMENTS

NORTH CAROLINA

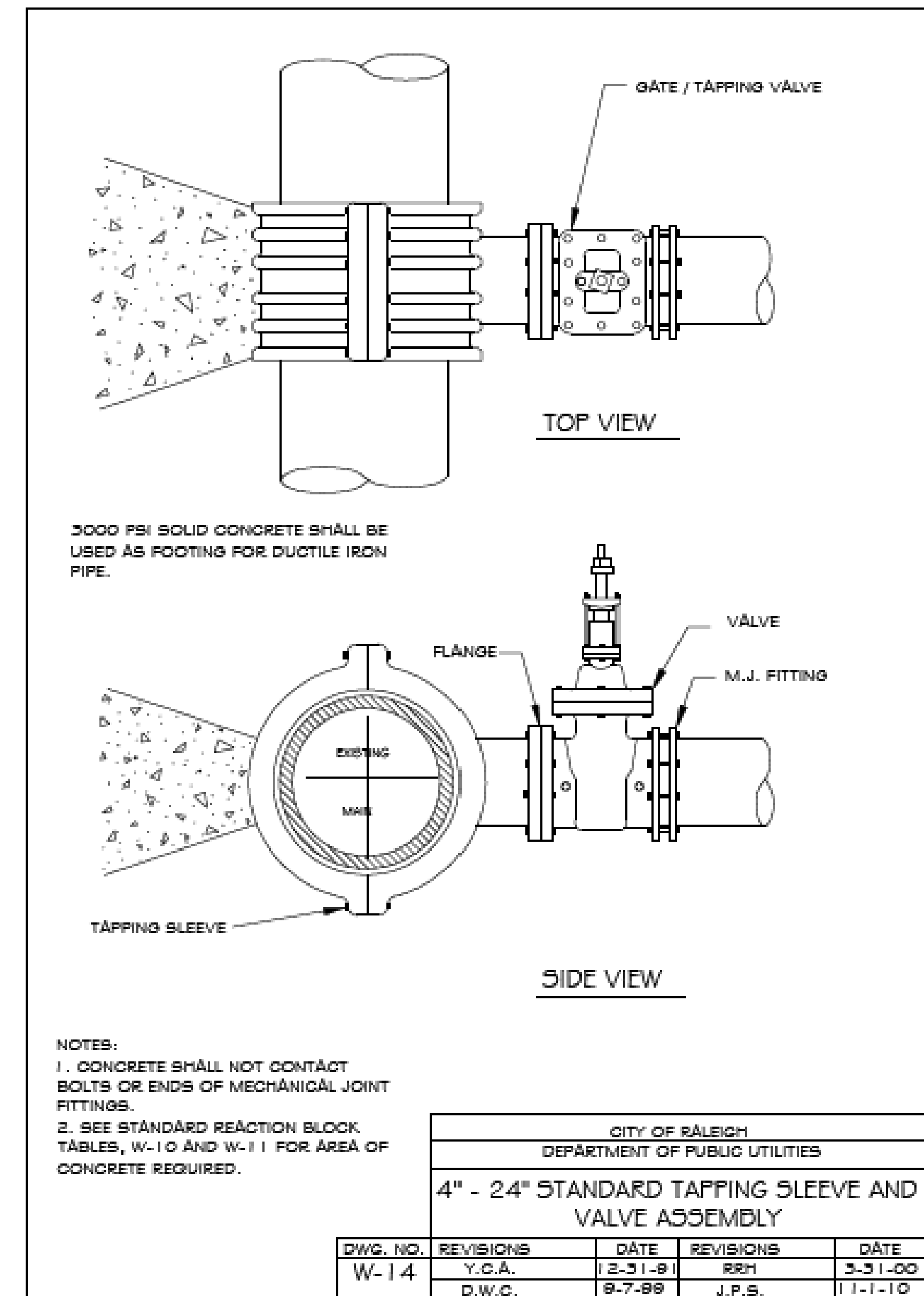
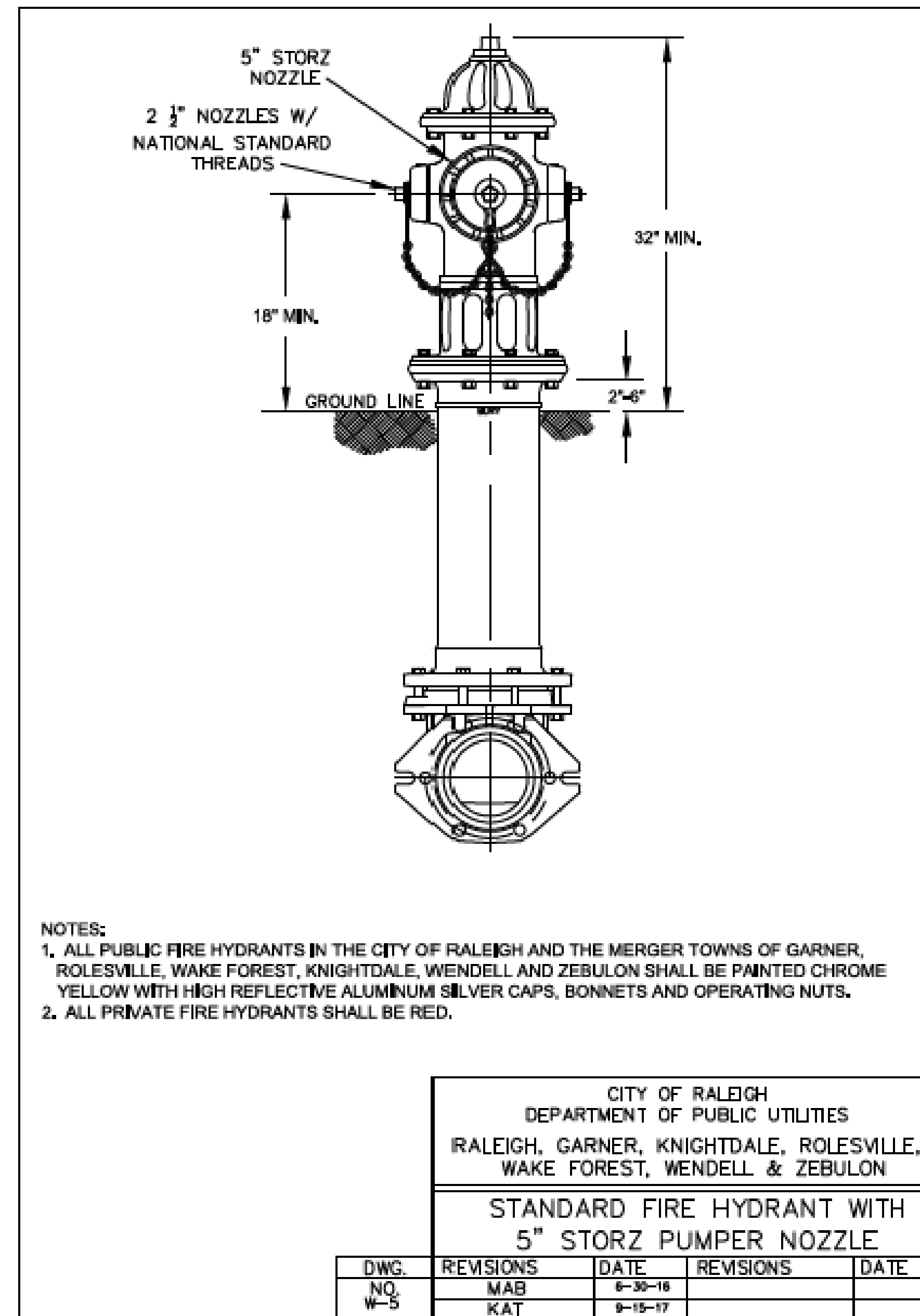
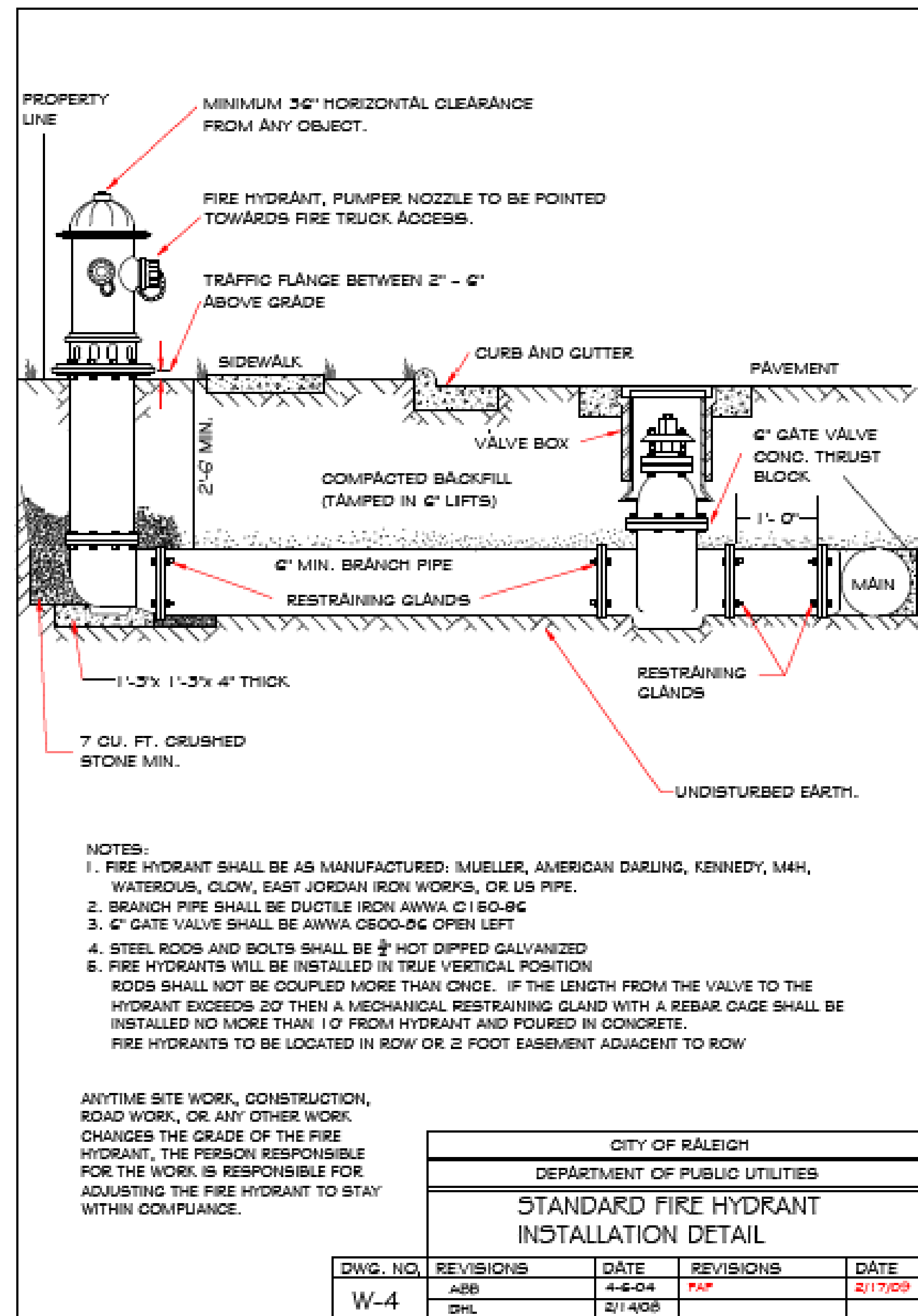
WAKE

SHEET NUMBER  
R1.01

REVISIONS

DATE

BY



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PHONE: 919-682-3583  
WWW.KIMLEY-HORN.COM  
NC LICENSE #: F-0102



KHA PROJECT	NTS
013829007	
DATE	
9/27/2023	
SCALE	TDW
DESIGNED BY:	JHV
DRAWN BY:	
CHECKED BY:	TDW

## DETAILS

# PARKER RIDGE OFFSITE IMPROVEMENTS

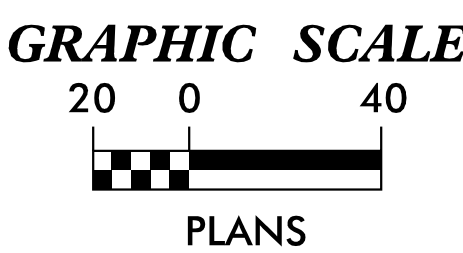
WAKE NORTH CAROLINA

SHEET NUMBER  
**R1.02**

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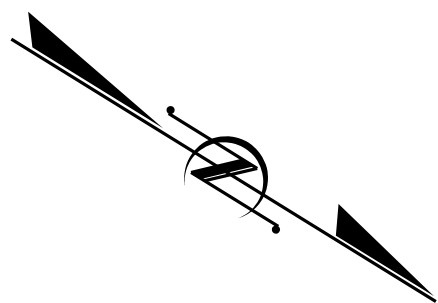
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EXISTING  
CONDITIONS

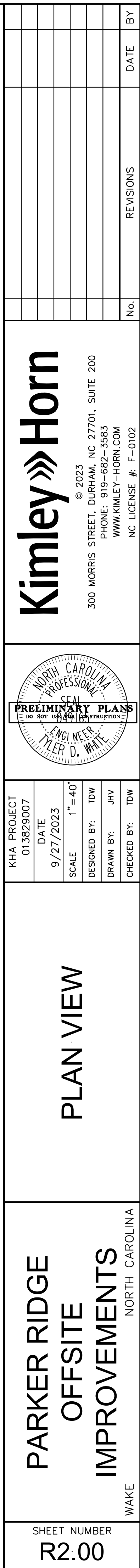
KHA PROJECT 013829007
DATE 9/27/2023
SCALE 1"=40'
DESIGNED BY: TDW
DRAWN BY: JHV
CHECKED BY: TDW



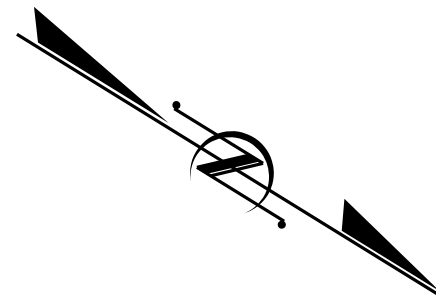
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SHEET NUMBER  
R4.00





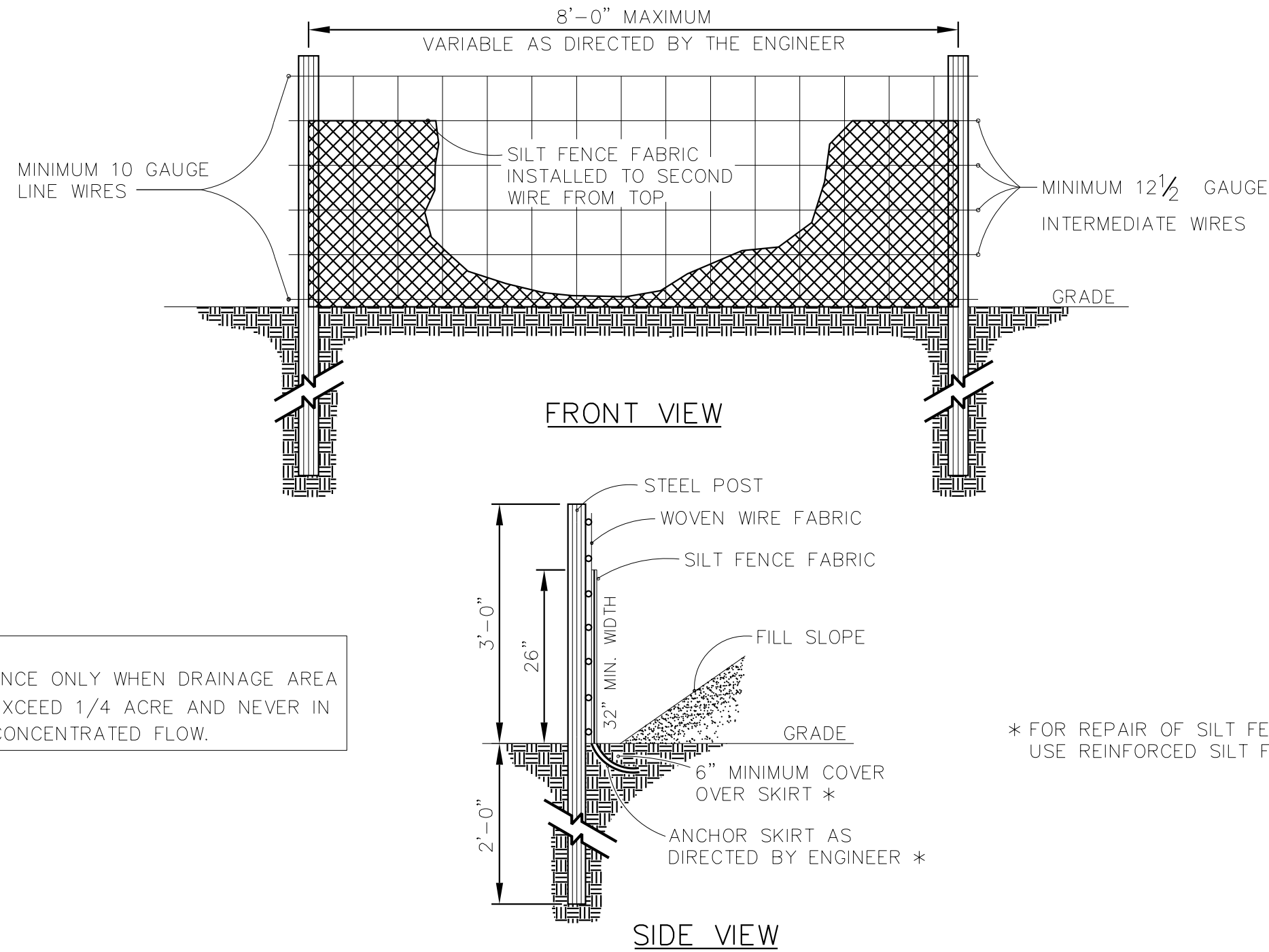


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9/27/2023

<div>CONSTRUCTION SEQUENCE</div> <div>CONSTRUCTION SPECIFICATIONS</div> <div>1. Request preconstruction meeting.</div> <div>2. Obtain grading permit;</div> <div>3. Install all erosion control measures as shown;</div> <div>4. Obtain certificate of compliance through on-site inspection by Erosion Control Officer;</div> <div>5. Proceed with grading;</div> <div>6. Clean sediment basins when one-half full;</div> <div>7. Seed and mulch denuded area within 15 days or duration shown on ground stabilization requirements, whichever is shorter, after any phase of grading;</div> <div>8. Maintain soil erosion control measures until permanent ground cover is established;</div> <div>9. Request final approval by Erosion Control Officer;</div> <div>10. Remove soil erosion control measures and stabilize these areas.</div> <div>MAINTENANCE</div> <div>Follow the construction sequence throughout project development. When changes in construction activities are needed, amend the sequence schedule in advance to maintain management control.</div> <div>Notification of Land Resources Sediment and Erosion Control Self-Inspection Program:</div> <div>The Sedimentation Pollution Control Act was amended in 2006 to require that persons responsible for land-disturbing activities inspect a project after each phase of the project to make sure that the approved erosion and sedimentation control plan is being followed. Rules detailing the documentation of these inspections took effect October 1, 2010. The self-inspection program is separate from the weekly self-monitoring program of the NPDES Stormwater Permit for Construction Activities. The focus of the self-inspection report is the installation and maintenance of erosion and sedimentation control measures according to the approved plan. The inspections must be conducted after each phase of the project, and continue until permanent ground cover is established in accordance with NCGS 113A-54.J and 15A NCAC 4B.D131. The Self-Inspection Report form is available as an Excel spreadsheet from <a href="http://portal.ncdenr.org/web/11/erosion">http://portal.ncdenr.org/web/11/erosion</a>. If you have questions or cannot access the form, please contact NC DENR Division of Land Resources at (919) 791-4200.</div>	<div>VEGETATIVE PLAN (NC DENR 6.J1)</div> <div>SEEDING AND MULCHING</div> <div>The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined by the Engineer.</div> <div><table><thead><tr><th>Date</th><th>Type</th><th>Planting Rate</th></tr></thead><tbody><tr><td>Mar. 1-Aug. 31</td><td>Tall Fescue Centipede Hulled Common Bermudagrass Fertilizer Limestone</td><td>50 lbs./acre 5 lbs./acre 25 lbs./acre 500 lbs./acre 4000 lbs./acre</td></tr><tr><td>Sep. 1-Feb. 28</td><td>Tall Fescue Centipede Unhulled Common Bermudagrass Fertilizer Limestone</td><td>50 lbs./acre 5 lbs./acre 35 lbs./acre 500 lbs./acre 4000 lbs./acre</td></tr></tbody></table><div>Slopes (2:1 and steeper) and Waste &amp; Borrow Locations</div><div><table><tbody><tr><td>Jan. 1-Dec. 31</td><td>Tall Fescue Unhulled Common Bermudagrass Fertilizer Limestone</td><td>75 lbs./acre 35 lbs./acre 500 lbs./acre 4000 lbs./acre</td></tr></tbody></table><div>Approved Tall Fescue Cultivars</div><div><table><tbody><tr><td>Adventure</td><td>Adventure II</td><td>Amigo</td><td>Anthem</td></tr><tr><td>Apache</td><td>Austin</td><td>Arid</td><td>Austin</td></tr><tr><td>Brookstone</td><td>Bonanza</td><td>Bonanza II</td><td>Chapel Hill</td></tr><tr><td>Chesapeake</td><td>Chertain</td><td>Coronado</td><td>Crossfire II</td></tr><tr><td>Debutante</td><td>Falcon</td><td>Falcon II</td><td>Duster</td></tr><tr><td>Finelawn Petite</td><td>Finelawn</td><td>Finelawn I</td><td>Genesis</td></tr><tr><td>Grande</td><td>Guardian</td><td>Hawk</td><td>Haundog</td></tr><tr><td>Jaguar</td><td>Jaguar III</td><td>Kentucky 31</td><td>Kitty</td></tr><tr><td>Monarch</td><td>Montauk</td><td>Mustang</td><td>Olympic</td></tr><tr><td>Pacer</td><td>Phoenix</td><td>Pixie</td><td>Pyramid</td></tr><tr><td>Rebel</td><td>Rebel Jr.</td><td>Rebel II</td><td>Renegade</td></tr><tr><td>Safari</td><td>Shenandoah</td><td>Tempo</td><td>Titan</td></tr><tr><td>Tomahawk</td><td>Trailblazer</td><td>Tribe</td><td>Vegas</td></tr><tr><td>Wolf pack</td><td>Wrangle</td><td></td><td></td></tr></tbody></table></div></div><div>SEEDING AND MULCHING</div><div>On cut and fill slopes 2:1 or steeper, add 30* (23kg) Sericea Lespedeza January 1-December 31.</div><div>Fertilizer shall be 10-20-20 analysis. Upon written approval of the Engineer, a different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis.</div><div>SEEDBED PREPARATION</div><div>The Contractor shall cut and satisfactorily dispose of weeds or other unacceptable growth on the areas to be seeded. Uneven and rough areas outside of the graded section, such as crop rows, farm contours, ditches, and ditch spoil banks, fence line and hedgerow soil accumulations, and other minor irregularities which cannot be obliterated by normal seedbed preparation operations, shall be shaped and smoothed as directed by the Engineer to provide for more effective seeding and for ease of subsequent mowing operations.</div><div>The soil shall then be scarified or otherwise loosened to a depth of not less than 5 inches except as otherwise provided below or otherwise directed by the Engineer. Clods shall be broken and the top 2 to 3 inches of soil shall be worked into an acceptable seedbed by the use of soil pulverizers, drag or harrows; or by other methods approved by the Engineer. All rock and debris 3 inches or larger shall be removed on median, shoulder, and ditch cut or fill slopes which are 3:1 or flatter, prior to the application of seed and fertilizer.</div><div>On cut slopes that are 2:1 and steeper, both the depth of preparation and the degree of smoothness of the seedbed may be reduced as permitted by the Engineer, but in all cases the slope surface shall be scarified, grooved, trenched, or punctured so as to provide pockets, ridges, or trenches in which the seeding materials can lodge. Contractor shall be responsible for providing the required seed bed. It may be necessary to seed these sections with a hydro-seeded.</div><div>On cut slopes that are either 2:1 or steeper, the Engineer may permit the preparation of a partial or complete seedbed during the grading of the slope, if at the time of seeding and mulching operations such preparation is still in a condition acceptable to the Engineer, additional seedbed preparation may be reduced or eliminated.</div><div>Seeded preparation within 2 feet of the edge of any pavement shall be limited to a depth of 2 to 3 inches.</div><div>The preparation of seedbeds shall not be done when the soil is frozen, extremely wet, or when the Engineer determines that it is an otherwise unfavorable working condition.</div><div>APPLYING AND COVERING LIMESTONE, FERTILIZER, AND SEED</div><div>A) GENERAL:</div><div>Seasonal limitation for seeding operations; the kinds of grades of fertilizers; the kinds of seed; and the rates of application of limestone, fertilizer, and seed shall be as stated in the special provisions.</div><div>Equipment to be used for the application, covering, or compaction of limestone, fertilizer, and seed shall have been approved by the Engineer before being used on the project. Approval may be revoked at any time if equipment is not maintained in satisfactory working condition, or if the equipment operation damages the seed.</div><div>Limestone, fertilizer, and seed shall be applied within 24 hours after completion of seedbed preparation unless otherwise permitted by the Engineer, but no limestone or fertilizer shall be distributed and no seed shall be sown when the Engineer determines the weather and soil conditions are unfavorable for such operations.</div><div>During the application of fertilizer, adequate precautions shall be taken to prevent damage to traffic, structures, guardrails, traffic control devices, or any other appurtenances. The Contractor shall either provide adequate drainage covering or change methods of application as required to avoid such damage. When such damage occurs, the Contractor shall repair it, including any cleaning that may be necessary.</div></div>	Date	Type	Planting Rate	Mar. 1-Aug. 31	Tall Fescue Centipede Hulled Common Bermudagrass Fertilizer Limestone	50 lbs./acre 5 lbs./acre 25 lbs./acre 500 lbs./acre 4000 lbs./acre	Sep. 1-Feb. 28	Tall Fescue Centipede Unhulled Common Bermudagrass Fertilizer Limestone	50 lbs./acre 5 lbs./acre 35 lbs./acre 500 lbs./acre 4000 lbs./acre	Jan. 1-Dec. 31	Tall Fescue Unhulled Common Bermudagrass Fertilizer Limestone	75 lbs./acre 35 lbs./acre 500 lbs./acre 4000 lbs./acre	Adventure	Adventure II	Amigo	Anthem	Apache	Austin	Arid	Austin	Brookstone	Bonanza	Bonanza II	Chapel Hill	Chesapeake	Chertain	Coronado	Crossfire II	Debutante	Falcon	Falcon II	Duster	Finelawn Petite	Finelawn	Finelawn I	Genesis	Grande	Guardian	Hawk	Haundog	Jaguar	Jaguar III	Kentucky 31	Kitty	Monarch	Montauk	Mustang	Olympic	Pacer	Phoenix	Pixie	Pyramid	Rebel	Rebel Jr.	Rebel II	Renegade	Safari	Shenandoah	Tempo	Titan	Tomahawk	Trailblazer	Tribe	Vegas	Wolf pack	Wrangle			<div>APPLYING AND COVERING LIMESTONE, FERTILIZER, AND SEED</div> <div>B) LIMESTONE AND FERTILIZER:</div> <div>Limestone may be applied as a part of the seedbed preparation, provided it is immediately worked into the soil. If not so applied, limestone and fertilizer shall be distributed uniformly over the prepared seedbed at the specified rate of application and then harrowed, raked, or otherwise thoroughly worked or mixed into the seedbed.</div> <div>If liquid fertilizer is used, storage containers for the liquid fertilizer shall be located on the project and shall be equipped for agitation of the liquid prior to its use. The storage containers shall be equipped with approved measuring or metering devices which will enable the Engineer to record at any time the amount of liquid that has been removed from the container. Application equipment for liquid fertilizer, other than a hydraulic seeder, shall be calibrated to ensure that the required rate of fertilizer is applied uniformly.</div> <div>C) SEED:</div> <div>Seed shall be distributed uniformly over the seedbed at the required rate of application, and immediately harrowed, dragged, raked, or otherwise worked so as to over the seed with a layer of soil. The depth of covering shall be as directed by the Engineer. If 2 kinds of seed are to be used which require different depths of covering, they shall be sown separately.</div> <div>When a combination seed and fertilizer drill is used, fertilizer may be drilled in with the seed after limestone has been applied and worked into the soil. If 2 kinds of seed are being used which require different depth of covering, the seeding requiring the lighter covering may be sown broadcast or with a special attachment to the drill, or drilled lightly following the initial drilling operation.</div> <div>When a hydraulic seeder is used for application of seed and fertilizer, the seed shall not remain in water containing fertilizer for more than 30 minutes prior to application unless otherwise permitted by the Engineer.</div> <div>Immediately after seed has been properly covered the seedbed shall be compacted in the manner and degree approved by the Engineer.</div> <div>MULCHING</div> <div>A) GENERAL:</div> <div>All seeded areas shall be mulched unless otherwise indicated in the special provisions or directed by the Engineer.</div> <div>Grain straw may be used as mulch at any time of year, if permissions to use material other than grain straw is requested by the Contractor and the use of such material is approved by the Engineer, the seasonal limitations, the methods and rates of application, the type of binding material, or other conditions governing the use of such material will be established by the Engineer at the time of approval.</div> <div>B) APPLYING MULCH:</div> <div>Mulch shall be applied within 24 hours after completion of seeding unless otherwise permitted by the Engineer. Care shall be exercised to prevent displacement of soil or seed or other damage to the seeded area during the mulching operations. Mulch shall be uniformly spread by hand or by approved mechanical spreaders or blowers that will provide an acceptable application. An acceptable application will be that which will allow some sunlight to penetrate and air to circulate but will also partially shade the ground, reduce erosion, and conserve soil moisture.</div> <div>C) HOLDING MULCH:</div> <div>Mulch shall be held in place by applying a sufficient amount of asphalt or other approved binding material to assure that the mulch is properly held in place. The rate and method of application of binding material shall meet the approval of the Engineer. Where the binding material is not applied directly with the mulch it shall be applied immediately following the mulch application.</div> <div>During the application of asphalt binding material, or other approved binding materials which may cause damage, adequate precautions shall be taken to prevent damage to traffic, structures, guardrails, traffic control devices, or any other appurtenances. The Contractor shall either provide adequate covering or change methods of application as required to avoid such damage. When such damage occurs the Contractor shall repair it, including any cleaning that may be necessary.</div> <div>The Contractor shall take sufficient precautions to prevent mulch from entering drainage structures through displacement by wind, water, or other causes and shall promptly remove any blockage to drainage facilities that may occur.</div>	<div>CONSTRUCTION SPECIFICATIONS</div> <div>MATERIALS</div> <div>Determine whether the quality and quantity of available topsoil justifies selective handling. Quality topsoil has the following characteristics:</div> <div>Texture – loam, sandy loam, and silt loam are best; sandy clay loam, silty clay loam, clay loam, and loamy sand are fair. Do not use heavy clay and organic soils such as peat or muck as topsoil.</div> <div>Organic matter content – (sometimes referred to as "humic matter") should be greater than 1.5% by weight.</div> <div>Acidity – pH should be greater than 3.6 before liming, and liming is required if it is less than 6.0.</div> <div>Soluble salts – should be less than 500 ppm.</div> <div>Sodium – sodium adsorption ratio should be less than 12.</div> <div>The depth of material meeting the above qualifications should be at least 2 inches. Soil factors such as rock, slope, depth to water table, and layer thickness affect the ease of excavation and spreading of topsoil.</div> <div>Generally, the upper part of the soil, which is richest in organic matter, is most desirable; however, material excavated from deeper layers may be worth storing if it meets the other criteria listed above.</div> <div>Organic soils such as mucks and peats do not make good topsoil. They can be identified by their extremely light weight when dry.</div> <div>STRIPPING</div> <div>Strip topsoil only from those areas that will be disturbed by excavation, filling, roadbuilding, or compaction by equipment. A 4 to 6-inch stripping depth is common, but depth varies depending on the site. Determine depth of stripping by taking soil cores at several locations within each area to be stripped. Topsoil depth generally varies along a gradient from hilltop to toe of the slope. Put sediment basins, diversions, and other controls into place before stripping.</div> <div>STOCKPILING</div> <div>Select stockpile location to avoid slopes and natural drainageways, avoiding traffic routes, and other sites. Stockpiling is easier and more economical when topsoil is stockpiled in small piles located near areas where they will be used. All stockpile areas used shall be stabilized with silt fence and seeded.</div> <div>Sediment barriers – Use sediment fences or other barriers where necessary to retain sediment.</div>	<div>TOPSOILING (6.04)</div> <div>Temporary seeding – Protect topsoil stockpiles by temporarily seeding as soon as possible, no more than 30 working days or 120 calendar days after the formation of the stockpile.</div> <div>Permanent vegetation – If stockpiles will not be used within 12 months they must be stabilized with permanent vegetation to control erosion and weed growth.</div> <div>SITE PREPARATION</div> <div>Before spreading topsoil, establish erosion and sedimentation control practices such as diversions, berms, dikes, waterways, and sediment basins.</div> <div>Grading – Maintain grades on the areas to be topsoiled according to the approved plan and do not alter them by adding topsoil.</div> <div>Liming of subsoil – Where the pH of the existing subsoil is 6.0 or less, or the soil is composed of heavy clays, incorporate agricultural limestone in amounts recommended by soil tests or specified for the seeding mixture to be used. Incorporate lime to a depth of at least 2 inches by diskling.</div> <div>Roughening – Immediately prior to spreading the topsoil, loosen the subgrade by diskling or scarifying to a depth of at least 4 inches, to ensure bonding of the topsoil and subsoil. If no amendments have been incorporated, loosen the soil to a depth of at least 6 inches before spreading topsoil.</div> <div>SPREADING TOPSOIL</div> <div>Do not spread topsoil while it is frozen or muddy or when subgrade is wet or frozen. Correct any irregularities in the surface that result from topsoiling or other operations to prevent the formation of depressions or water pockets.</div> <div>Compact the topsoil enough to ensure good contact with the underlying soil, but avoid excessive compaction, as it increases runoff and inhibits seed germination. Light packing with a roller is recommended where high-maintenance turf is to be established.</div> <div>On slopes and areas that will not be mowed, the surface may be left rough after spreading topsoil. A disk may be used to promote bonding at the interface between topsoil and subsoil.</div> <div>After topsoil application, follow procedure for seedbed preparation, taking care to avoid excessive mixing of topsoil into the subsoil.</div>	<div>LAND GRADING (6.02)</div> <div>CONSTRUCTION SPECIFICATIONS</div> <div>1. Construct and maintain all erosion and sedimentation control practices and measures in accordance with the approved sedimentation control plan and construction schedule.</div> <div>2. Remove good topsoil from areas to be graded and filled, and preserve it for use in finishing the grading of all critical areas.</div> <div>3. Scarify areas to be topsoiled to a minimum depth of 2 inches before placing topsoil.</div> <div>4. Clear and grub areas to be filled to remove trees, vegetation, roots, or other objectionable material that would affect the planned stability of the fill.</div> <div>5. Ensure that fill material is free of brush, rubbish, rocks, logs, stumps, building debris, and other materials inappropriate for constructing stable fills.</div> <div>6. Place all fill in layers not to exceed 9 inches in thickness, and compact the layers as required to reduce erosion, slippage, settlement, or other related problems.</div> <div>7. Do not incorporate frozen material or soft or highly compressible materials into fill slopes.</div> <div>8. Do not place fill on a frozen foundation, due to possible subsidence and slippage.</div> <div>9. Keep diversions and other water conveyance measures free of sediment during all phases of development.</div> <div>10. Handle seeps or springs encountered during construction in accordance with approved methods.</div> <div>11. Permanently stabilize all graded areas immediately after final grading is completed on each area in the grading plan. Apply temporary stabilization measures on all graded areas when work is to be interrupted or delayed for 15 working days or longer.</div> <div>12. Show topsoil stockpiles, borrow areas, and spoil areas on the plans, and make sure they are adequately protected from erosion. Include final stabilization of these areas in the plan.</div> <div>MAINTENANCE</div> <div>Periodically check all graded areas and the supporting erosion and sedimentation control practices, especially after heavy rainfalls. Promptly remove all sediment from diversion and other water disposal practices. If washouts or breaks occur, repair them immediately. Prompt maintenance of small eroded areas before they become significant gullies is an essential part of an effective erosion and sedimentation control plan.</div>	<div>EROSION CONTROL DETAILS</div> <div>PRELIMINARY PLANS</div> <div>DO NOT USE FOR CONSTRUCTION</div> <div>SCALE 1"=40'</div> <div>DESIGNED BY: TDW</div> <div>DRAWN BY: JUV</div> <div>CHECKED BY: TDW</div> <div>WAKE</div> <div>SHEET NUMBER R5.01</div> <div>REVISIONS</div> <div>DATE</div> <div>BY</div>
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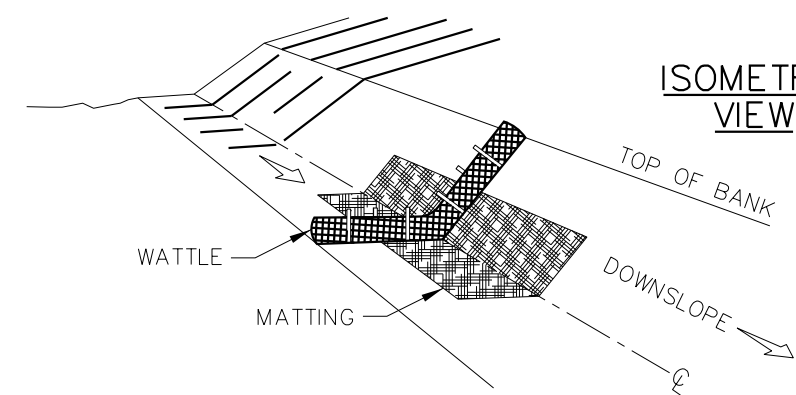
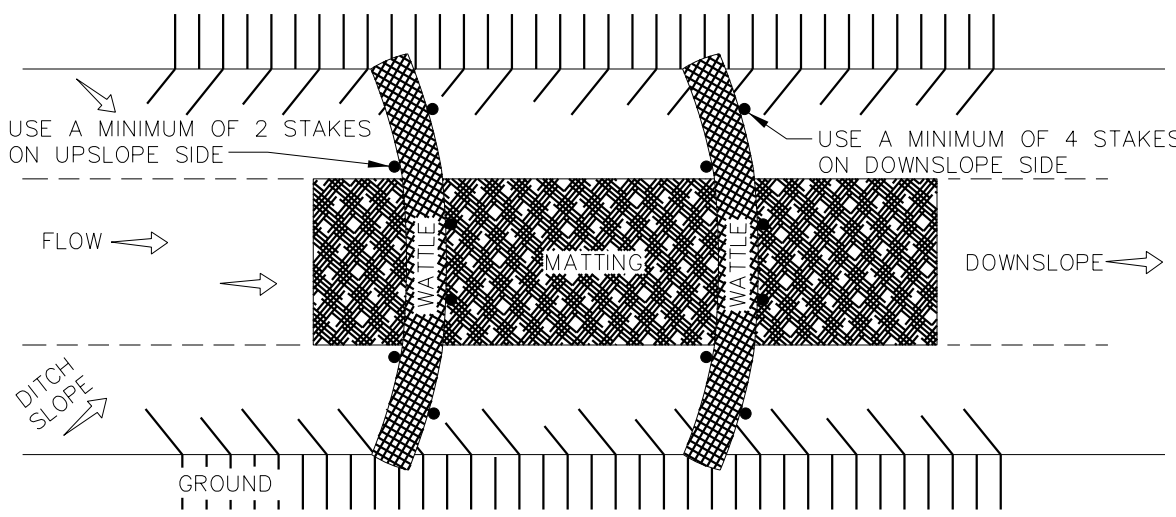




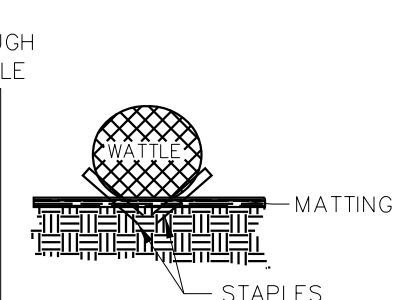
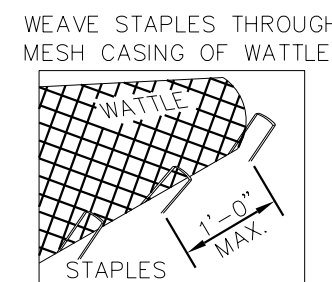
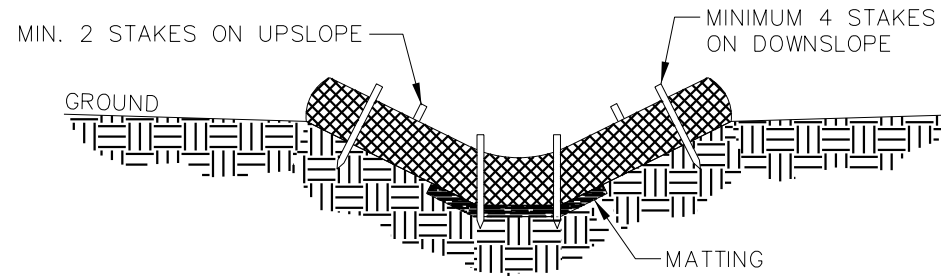
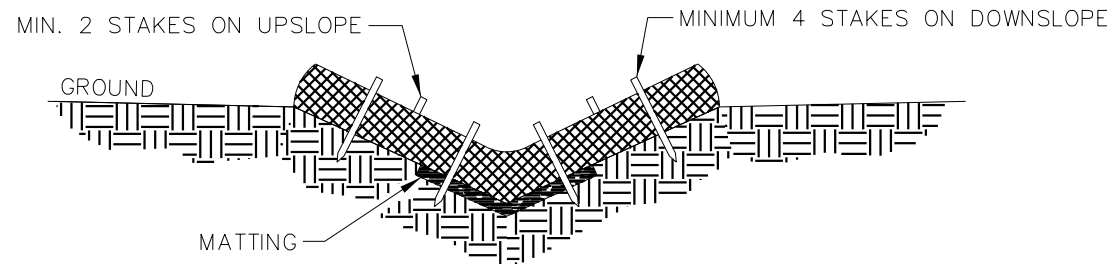
NOTE:  
USE SILT FENCE ONLY WHEN DRAINAGE AREA  
DOES NOT EXCEED 1/4 ACRE AND NEVER IN  
AREAS OF CONCENTRATED FLOW.

\* FOR REPAIR OF SILT FENCE FAILURES  
USE REINFORCED SILT FENCE OUTLET DETAIL

STANDARD TEMPORARY SILT FENCE



- NOTES:
- 1) USE A MINIMUM 12 INCH DIAMETER EXCELSIOR WATTLE.
  - 2) USE 24 INCH LONG WOODEN STAKES WITH A 2"x2" NOMINAL CROSS SECTION.
  - 3) INSTALL WATTLE(S) TO A HEIGHT ON SLOPE SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR SLOPES, OR AS DIRECTED.
  - 4) INSTALL A MINIMUM OF TWO UPSLOPE STAKES AND FOUR DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND AT BOTTOM.
  - 5) PROVIDE STAPLES MADE OF 0.125 INCH DIAMETER STEEL WIRE FORMED INTO A U-SHAPE NOT LESS THAN 12 INCHES IN LENGTH.
  - 6) INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
  - 7) AFTER INSTALLATION OF STAPLES, CHINK ANY GAPS BETWEEN WATTLE AND GROUND WITH MATTING.



WATTLE

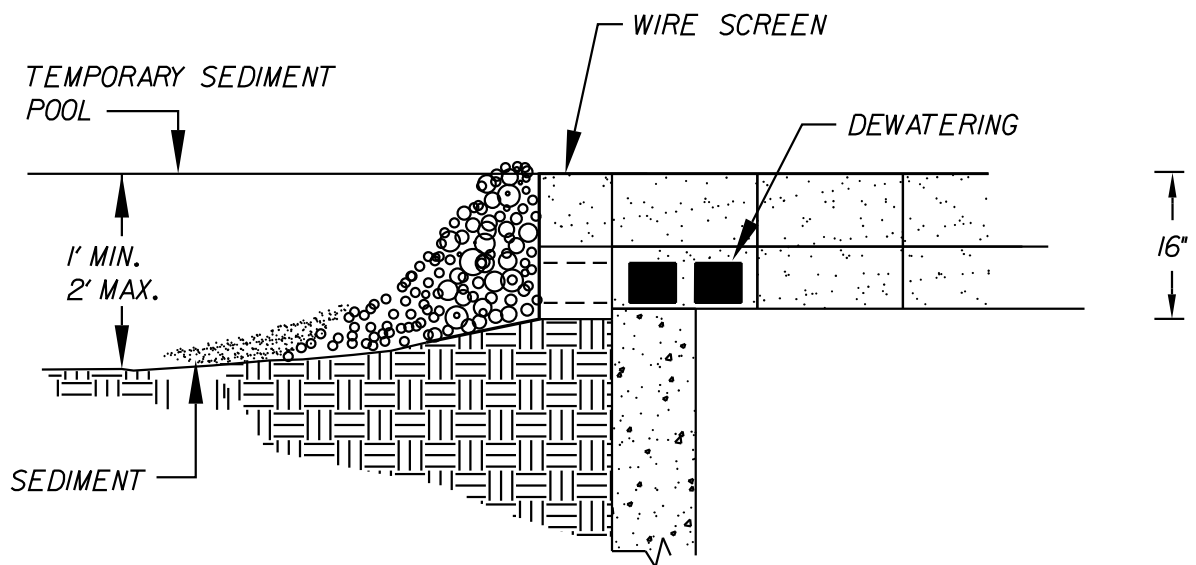
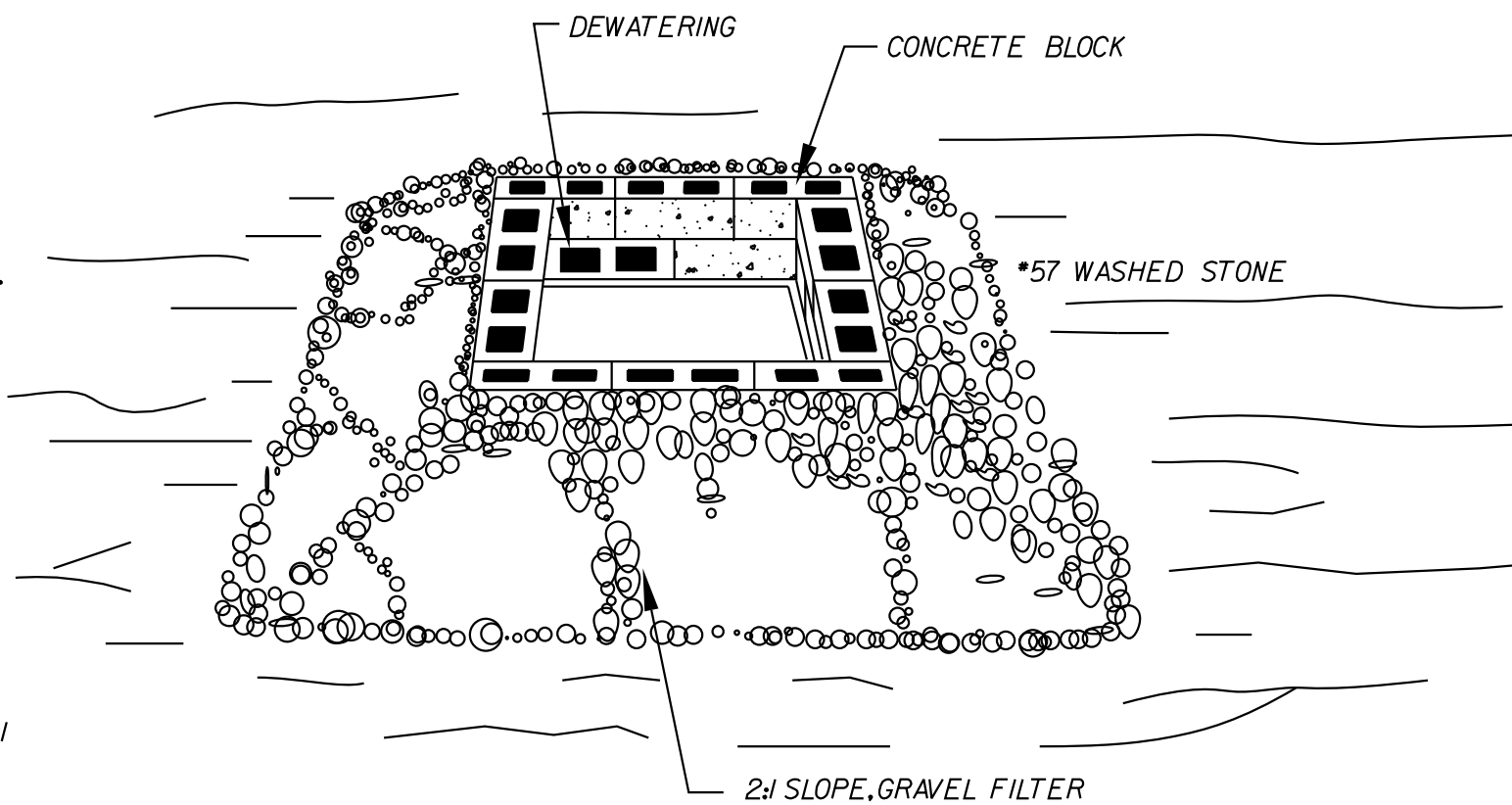
BLOCK AND GRAVEL INLET PROTECTION (6.52)

NOTES:

1. Use block and gravel inlet protection when inlet is at existing pavement locations.
2. Use block & gravel device or acceptable alternative over grate drain holes.

CONSTRUCTION SPECIFICATIONS

1. Lay one block on each side of the structure on its side in the bottom row to allow pool drainage. The foundation should be excavated at least 2 inches below the crest of the storm drain. Place the bottom row of blocks against the edge of the storm drain for lateral support and to avoid washouts when overflow occurs. If needed, give lateral support to subsequent rows by placing 2x4 wood studs through block openings.
2. Carefully fit hardware cloth or comparable wire mesh with 1/2-inch openings over all block openings to hold gravel in place.
3. Use clean gravel, 3/4 to 1/2-inch diameter, placed 2 inches below the top of the block on a 2:1 slope or flatter and smooth it to an even grade. Use DOT #57 washed stone.
4. The structure shall be inspected after each rain and repairs made as needed.
5. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
6. Structures shall be removed and the area stabilized when the remaining drainage area has been properly stabilized.
7. No. 57 stone shall be paid for at the contract unit price per ton "Sediment Control Stone".



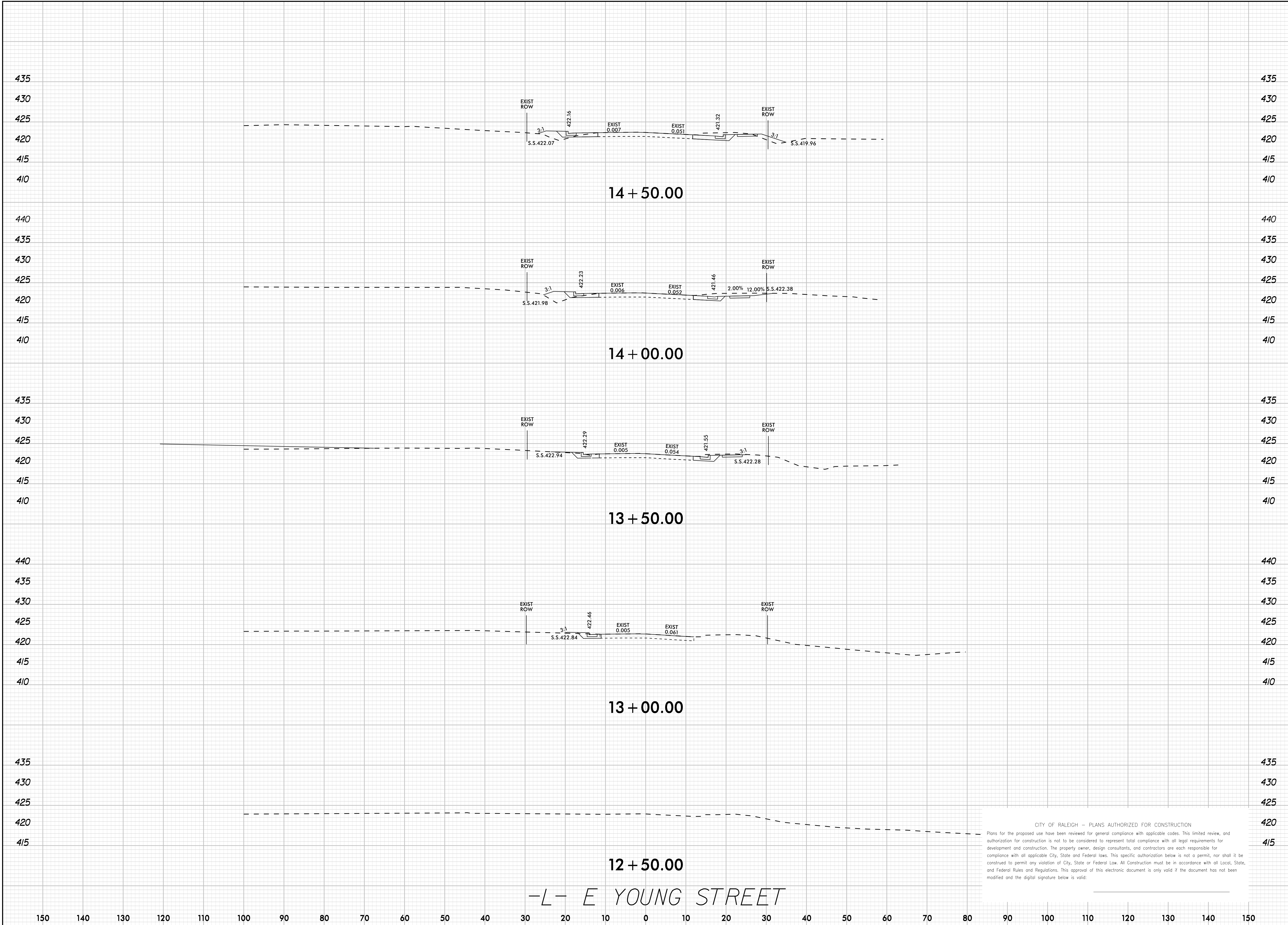
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid:

City of Raleigh Development Approval \_\_\_\_\_

KHA PROJECT 013829007		DATE 9/27/2023		SCALE 1" = 40'	DESIGNED BY: TDW	DRAWN BY: JHY	CHECKED BY: TDW
EROSION CONTROL DETAILS							
PARKER RIDGE OFFSITE IMPROVEMENTS NORTH CAROLINA							
SHEET NUMBER R5.02							
WAKE							
Kimley»Horn © 2023 300 MORRIS STREET, DURHAM, NC 27701, SUITE 200 PHONE: 919-682-3583 WWW.KIMLEY-HORN.COM NC LICENSE # F-0102							
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION NORTH CAROLINA PROFESSIONAL ENGINEER TYLER D. WHITE							
REVISIONS							
DATE							
BY							

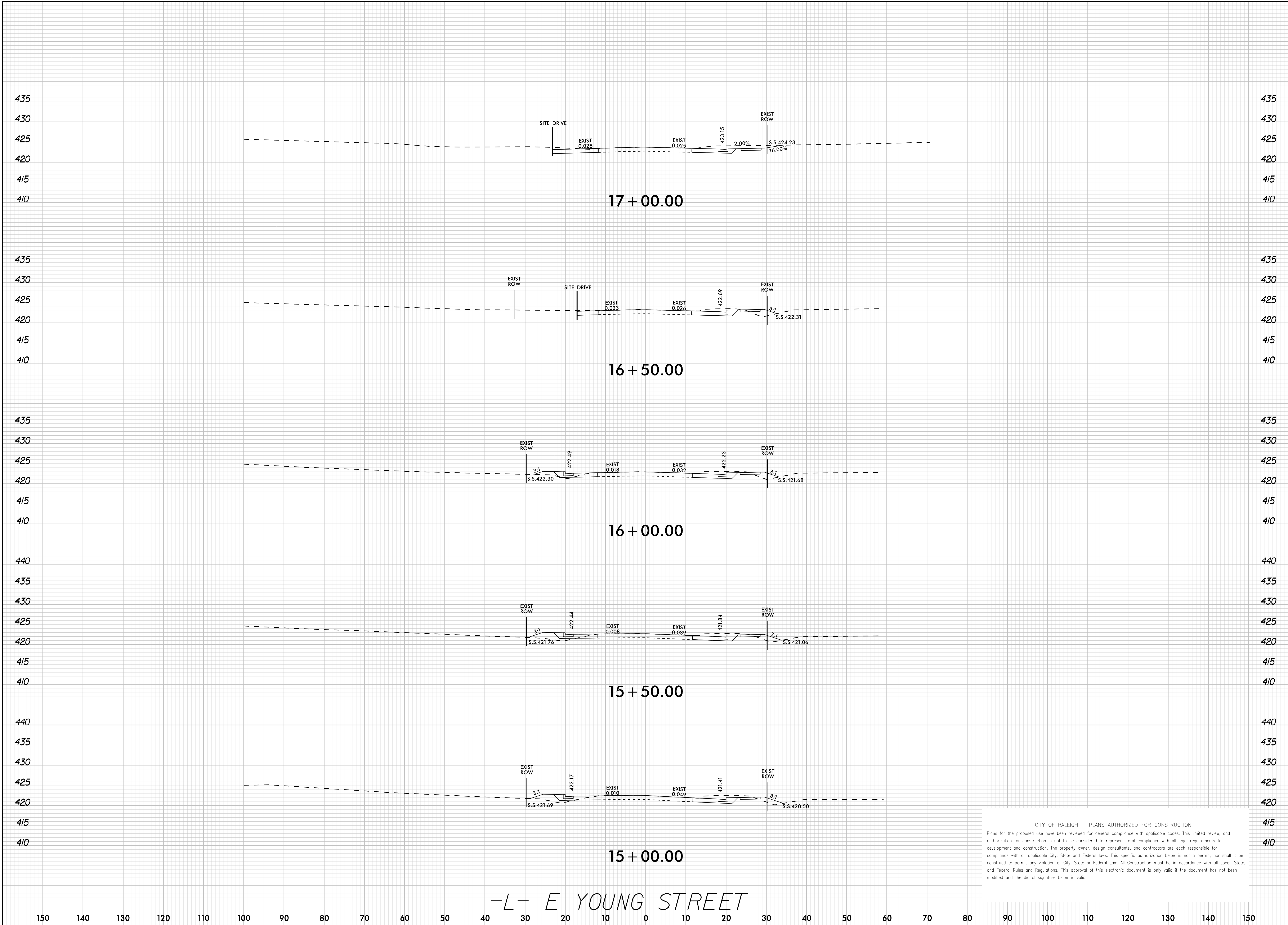
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CITY OF RALEIGH — PLANS AUTHORIZED FOR CONSTRUCTION  
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KHA PROJECT 013829007		DATE 9/27/2023		SCALE 1"=10'		DESIGNED BY: TDW		DRAWN BY: JHV		CHECKED BY: TDW	
ROADWAY CROSS-SECTIONS						PARKER RIDGE OFFSITE IMPROVEMENTS NORTH CAROLINA					
SHEET NUMBER R6.00						WAKE					
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PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION TYLER D. WAKE ENGINEER						NORTH CAROLINA PROFESSIONAL SEAL					
REVISIONS						BY DATE					

9/27/2023 K:\DUP\_Roadway\013829007 - Parker Ridge OS\Plan\Cross-Sections\013829007\_xpl.Ldgn

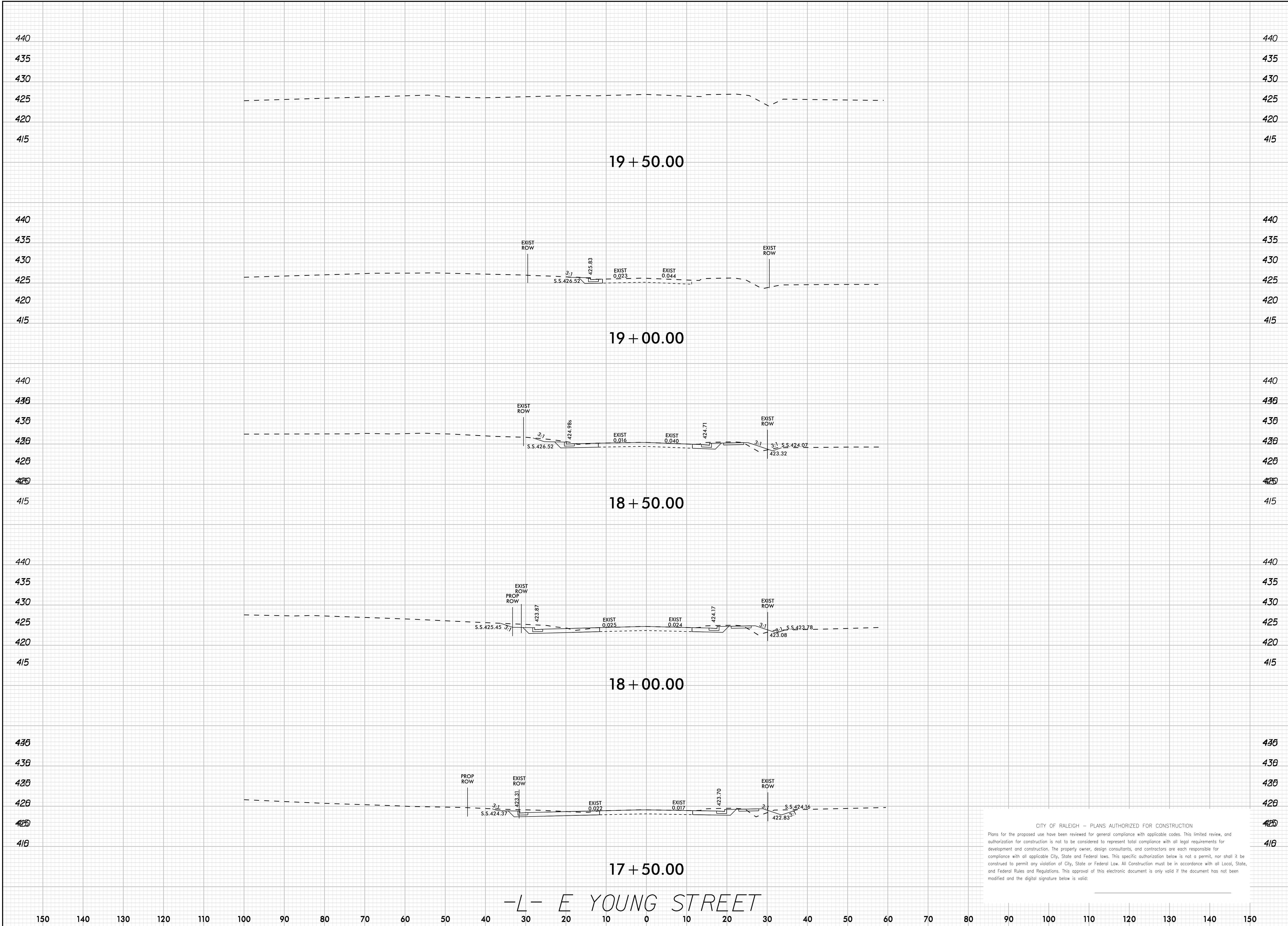


CITY OF RALEIGH — PLANS AUTHORIZED FOR CONSTRUCTION  
Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid:

KHA PROJECT 013829007		DATE 9/27/2023		SCALE 1"=10'		DESIGNED BY: TDW		DRAWN BY: JHV		CHECKED BY: TDW	
ROADWAY CROSS-SECTIONS						PARKER RIDGE OFFSITE IMPROVEMENTS NORTH CAROLINA					
SHEET NUMBER R6.01						WAKE					
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PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION TYLER D. WHITE ENGINEER						NORTH CAROLINA PROFESSIONAL ENGINEER					
REVISIONS						BY DATE					



9/27/2023 K:\DUP\_Roadway\013829007 - Parker Ridge OS\Plan\Cross-Sections\013829007\_xpl.Ldgn



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KHA PROJECT 013829007		DATE 9/27/2023		SCALE 1"=10'		DESIGNED BY: TDW		DRAWN BY: JHV		CHECKED BY: TDW	
ROADWAY CROSS-SECTIONS										PARKER RIDGE OFFSITE IMPROVEMENTS	
NORTH CAROLINA										WAKE	
SHEET NUMBER R6.02											
Kimley»Horn										© 2023 300 MORRIS STREET, DURHAM, NC 27701, SUITE 200 PHONE: 919-682-3583 WWW.KIMLEY-HORN.COM NC LICENSE #: F-0102	
PRELIMINARY PLANS										TYLER D. WHITE	
REVISIONS										BY DATE	