

# ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT TOWN OF ROLESVILLE STANDARDS AND SPECIFICATIONS

## SYMBOLS AND ABBREVIATIONS

ABC	AGGREGATE BASE COURSE		EXISTING CURB INLET
ALUM	ALUMINUM		EXISTING GRATE INLET/YARD INLET
AST2	ALUMINIZED STEEL - TYPE 2		EXISTING FLARED END SECTION
B-B	BACK TO BACK		EXISTING FIRE HYDRANT
BOA	BLOW-OFF ASSEMBLY		EXISTING BLOW-OFF ASSEMBLY
C&G	CURB AND GUTTER		EXISTING GATE VALVE
CFS	CUBIC FEET PER SECOND		EXISTING REDUCER
CI	CURB INLET		EXISTING WATER METER
CL	CENTER LINE		EXISTING SAN SEWER MANHOLE
CMP	CORRUGATED METAL PIPE		EXISTING CLEAN OUT
CO	CLEAN OUT		EXISTING POWER POLE
COM	COMMUNICATION		EXISTING TELEPHONE PEDESTAL
CONC	CONCRETE		EXISTING AREA LIGHT
DCV	DOUBLE CHECK VALVE		EXISTING SIGN
DDCV	DOUBLE DETECTOR CHECK VALVE		NEW CURB INLET
DI	DROP INLET		NEW GRATE INLET/YARD INLET
DIP	DUCTILE IRON PIPE		NEW FLARED END SECTION
EASE	EASEMENT		NEW FIRE HYDRANT
ELEC	ELECTRIC		NEW BLOW-OFF ASSEMBLY
EX	EXISTING		NEW GATE VALVE
FES	FLARED END SECTION		NEW REDUCER
FH	FIRE HYDRANT		NEW WATER METER
FM	FORCE MAIN		NEW TEE
FT	FEET		NEW PLUG
FT/SEC	FEET PER SEC		NEW MANHOLE
GALV	GALVANIZED		NEW CLEAN OUT
GV	GATE VALVE		NEW SIGN
HDPE	HIGH DENSITY POLYETHYLENE		IRON PIPE
(HP)	HIGH POINT		BENCHMARK
	LENGTH		TEMP SILT FENCE
LF	LINEAR FEET		TEMP TREE PROTECTION FENCE
LP	LIGHT POLE		TEMP COMBINATION SILT/TREE PROTECTION FENCE
(LP)	LOW POINT		TEMP DIVERSION DITCH
MH	MANHOLE		DISTURBED LIMITS
PAVE	PAVEMENT		STREAM
PE	FINISHED PAD ELEVATION		EXISTING GAS LINE
PP	POWER POLE		EXISTING COMMUNICATIONS LINE
PVC	POLYVINYL CHLORIDE		EXISTING UNDERGROUND TELEPHONE
R/W	RIGHT-OF-WAY		EXISTING UNDERGROUND ELECTRIC
RED	REDUCER		EXISTING OVERHEAD ELECTRIC
RCP	REINFORCED CONCRETE PIPE		EXISTING WATER LINE
RPZ	REDUCED PRESSURE ZONE		EXISTING SANITARY SEWER FORCE MAIN
SS	SANITARY SEWER		EXISTING SANITARY SEWER
STA	STATION		EXISTING STORM DRAINAGE
TDD	TEMPORARY DIVERSION DITCH		NEW STORM DRAINAGE
TELE	TELEPHONE		NEW WATER LINE
TSB	TEMPORARY SEDIMENT BASIN		NEW SANITARY SEWER
UG	UNDERGROUND		NEW SANITARY SEWER FORCE MAIN
WCR	WHEELCHAIR RAMP		NEW GAS MAIN
W/L	WATER LINE		HANDICAPPED ACCESSIBLE ROUTE
WM	WATER METER		
YI	YARD INLET		



# 971 GRANITE FALLS BOULEVARD

TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

## SITE DEVELOPMENT PLANS

### TOWN OF ROLESVILLE PROJECT NO. SP 22-08



VICINITY MAP  
SCALE: 1" = 400'

NO.	DATE	DESCRIPTION
7	03-06-24	PER WAKE CO COMMENTS
6	01-25-24	PER WAKE CO COMMENTS
5	11-01-23	PER NCDOT COMMENTS
4	10-17-23	PER WAKE CO/NCDOT
3	08-09-23	WAKE CO EC SUBMITTAL
2	06-02-23	PER TOR COMMENTS
1	04-03-23	PER TOR COMMENTS

SITE DATA	
PROJECT NAME:	NORTH WAKE EYE CARE
SUBMITTAL TYPE:	SITE PLAN
OWNER:	SJM HOLDING COMPANY, LLC 303 MIDDLEHAM DRIVE ROLESVILLE NC 27571-9209
DEVELOPER:	G&G BUILDERS, INC. 1603 S. HOLLYBROOK ROAD WENDELL, NC 27591
PIN:	1759-71-7504
ADDRESS:	971 GRANITE FALLS BOULEVARD
LEGAL DESCRIPTION:	LOT 8, BM 2006 PG 1428
ZONING:	GC-CZ (MA04-02)
USE:	EXISTING: VACANT PROPOSED: MEDICAL OFFICE/RETAIL
SITE AREA:	1.25 AC (54451 SF)
IMPERVIOUS AREA: (ON-SITE)	EXISTING: 0 AC (0 SF) - 0% IMPERVIOUS PROPOSED: 0.59 AC (25580 SF) - 47% IMPERVIOUS
OPENSACE:	REQUIRED: (5%) 0.06 AC (2723 SF) PROPOSED: (5% - SMALL O/S: PLAZA) 0.06 AC (2731 SF)
PRINCIPAL BUILDING SETBACKS: (GC)	FRONT: 20' SIDE: 15' REAR: 35' CORNER: 25' WIDTH: 100' AREA: 20000 SF
PRINCIPAL BUILDING: (NON-RESIDENTIAL)	MEDICAL: 5800 SF RETAIL: 4300 SF RETAIL: 1500 SF
PRINCIPAL BUILDING HEIGHT: (SINGLE-STORY)	26' - 2 1/2"
PARKING: (VEHICLE)	REQUIRED: (MIN/MAX) 18 SPACES/33 SPACES MEDICAL: (2 SP/1000 SF/5 SP/1000 SF) 9 SPACES/22 SPACES RETAIL: (2.5 SP/1000 SF/7.5 SP/1000 SF) 4 SPACES/11 SPACES PROVIDED: 30 SPACES ( INCL. 2 HC) - 91% OF MAX
PARKING: (BICYCLE)	REQUIRED: 1 SP/5000 SF PROVIDED: 2 SPACES (1 RACK) 4 SPACES (2 RACKS)
* TREE COVERAGE DATA:	EXISTING: 1.1 AC (50055 SF - 92%) PROPOSED: 0 AC (607 SF - 1%)
LIMITS OF DISTURBANCE:	1.4 AC (60380 SF)
* SITE < 2 ACRES, AND THEREFORE TREE PRESERVATION PER LDO 6.2.4.5 IS NOT REQUIRED	

## SHEET INDEX

- C0.0 COVER
- C1.0 EXISTING CONDITIONS & DEMOLITION PLAN
- C1.1 SITE PLAN
- C2.1 UTILITY PLAN
- C3.1 GRADING AND DRAINAGE PLAN
- C3.2 SEGMENTAL RETAINING WALL & SCM PLAN
- C3.3 EROSION CONTROL PLAN (STAGE 1)
- C3.4 EROSION CONTROL PLAN (STAGE 2)
- C3.5 EROSION CONTROL PLAN (STAGE 3)
- C3.6 NPDES STABILIZATION PLAN
- C3.7 NCG01 GROUND STABILIZATION PLAN
- C3.8 NCG01 SELF INSPECTION PLAN
- L1.1 LANDSCAPE PLAN
- SL-1.01 SITE LIGHTING PLAN
- C5.1 SITE DETAILS
- C5.2 NCDOT DETAILS
- C5.3 EROSION CONTROL DETAILS
- A-1.01 EAST/WEST ELEVATIONS
- A-1.02 NORTH/SOUTH ELEVATIONS
- A-2.01 FIRST FLOOR PLAN

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT	
APPROVED	
EROSION CONTROL	<input checked="" type="checkbox"/> SEC-108168-2023
STORMWATER MGMT.	<input checked="" type="checkbox"/> SWF-108164-2023
FLOOD STUDY	<input type="checkbox"/> SWF-
DATE	_____
ENVIRONMENTAL CONSULTANT SIGNATURE	

**ENGINEER:**

**REAL ENGINEERING, INC.**  
6109 WILKINSBURG ROAD  
RALEIGH, NORTH CAROLINA 27612  
TELEPHONE: (919) 539-7340  
CERTIFICATION NUMBERS: NCBELS (C-4406)

**CONTACT: DANNY L. HOWELL, JR. PE**  
EMAIL: Danny@RealEngineeringNC.com

*Seal: REAL ENGINEERING, INC. ENGINEER DANNY L. HOWELL, JR. PE 029993 03-06-24*

**OWNER:**

**SJM HOLDING COMPANY, LLC**  
303 MIDDLEHAM DRIVE  
ROLESVILLE NC 27571-9209

**CONTACT: DR. STEPHEN MERCKLE**  
PHONE: (919) 554-2440  
EMAIL: SJMerckle@gmail.com

**DEVELOPER:**

**G&G BUILDERS, INC.**  
1603 S. HOLLYBROOK ROAD  
WENDELL, NC 27591

**CONTACT: JUSTIN JACKSON**  
PHONE: (919) 669-2425  
EMAIL: Justin@GGBuildersNC.com

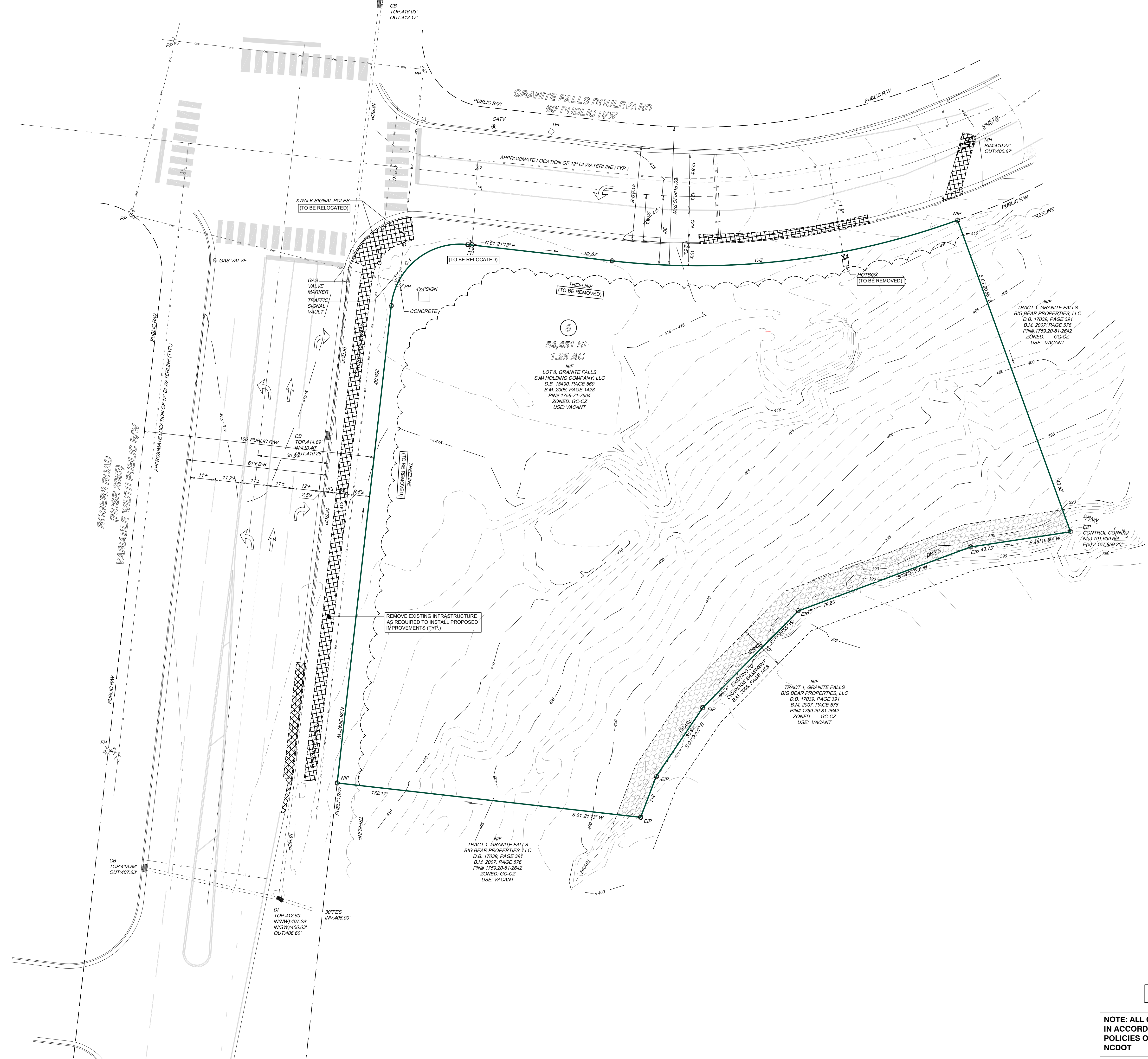


SP 22-08 / Site Development Plan /  
971 Granite Falls Blvd. North Wake Eye Center

**APPROVED**  
Date: April 12, 2024

*Meredith Gruber*

Town of Rolesville Planning Department



LINE TABLE			
LINE	BEARING	DISTANCE	
L-1	S 68°17'46" E	78.04'	
L-2	S 14°13'47" E	19.02'	

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD LENGTH	CHORD BEARING
C-1	47.13'	30.00'	42.43'	N 16°21'13" E
C-2	151.88'	330.00'	150.54'	N 48°10'07" E



**REAL ENGINEERING**  
 6109 WILKINSBURG ROAD  
 RALEIGH, NC 27612  
 (919) 539-7340  
 NCBELS FIRM NO: C-4406

JOB NO: 21027 DATE: 10-03-22  
**EXISTING CONDITIONS & DEMOLITION PLAN**  
 SCALE: 1" = 20'

**NorthWake Eye Care**  
 A MEMBER OF *WakeSource*  
**971 GRANITE FALLS BOULEVARD**  
 TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

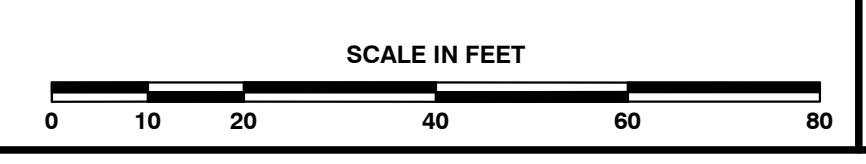
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**SHEET C1.0**

**LEGEND**

- 20' DRAINAGE EASEMENT
- NO WETLANDS EXIST ON-SITE
- NO FLOODPLAINS EXIST ON-SITE

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT



REFER TO SHEET C0.0, COVER, FOR PERTINENT SITE INFORMATION

**G&G BUILDERS, INC.**

**TJ ARCHITECTURE**

**REAL ENGINEERING**  
 6109 WILKINSBURG ROAD  
 RALEIGH, NC 27612  
 (919) 539-7340  
 NCBELS FIRM NO: C-4406

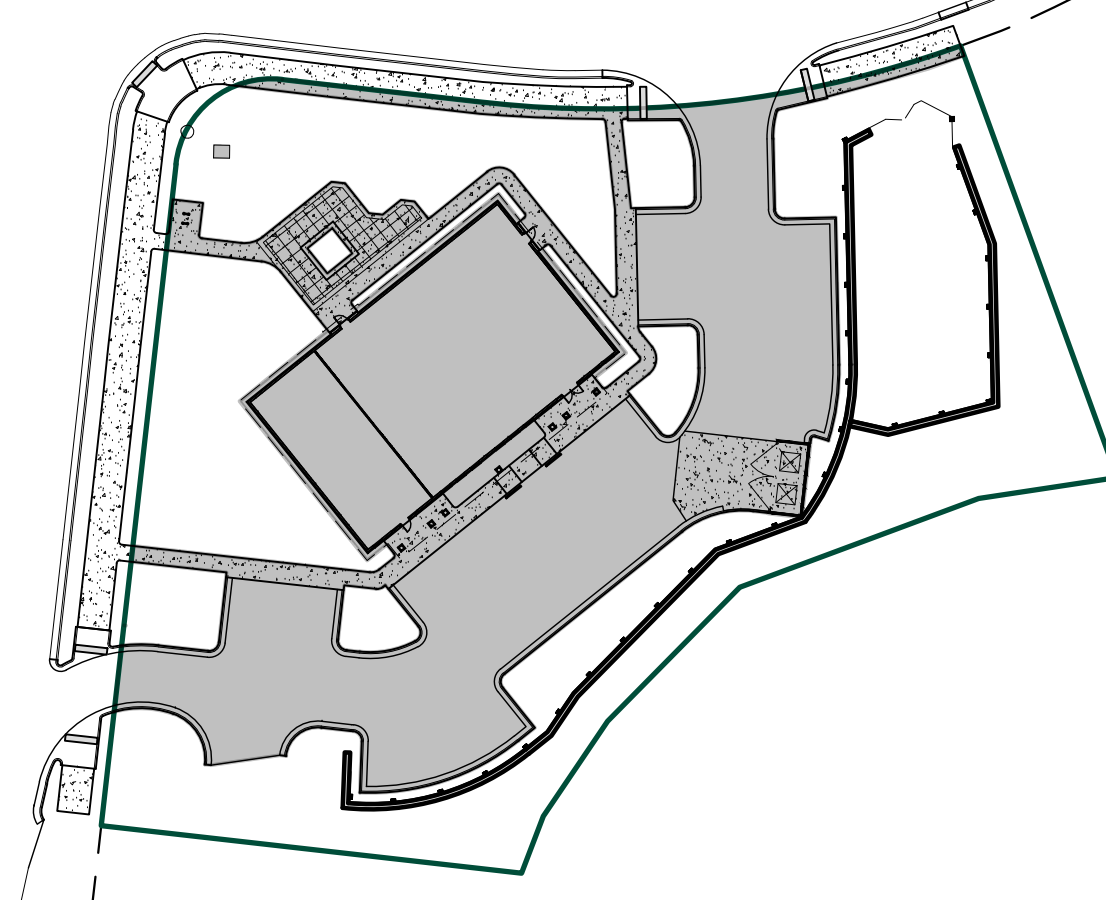
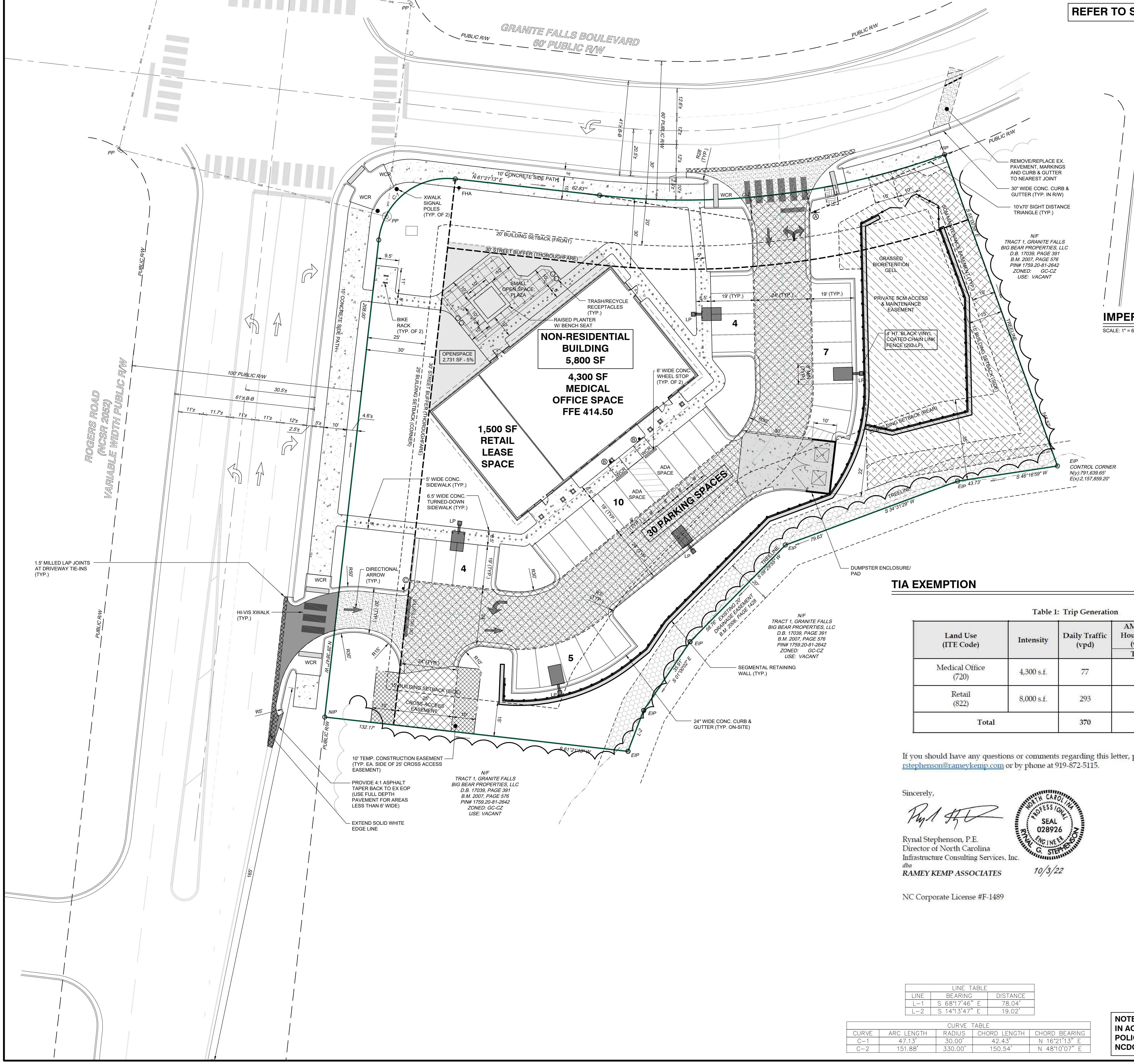
TOWN OF ROLESVILLE PROJECT NO. SP 22-08

**SITE PLAN**  
 DATE: 10-03-22  
 JOB NO.: 21027

**NorthWake Eye Care**  
 A MEMBER OF *WakeSource*  
**971 GRANITE FALLS BOULEVARD**  
 TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

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**SHEET C1.1**



**IMPERVIOUS KEY**  
 SCALE: 1" = 60'

**TRAFFIC CONTROL NOTES**

- ALL SITE SIGNAGE SHALL BE ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
 

SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
ACCESSIBLE PARKING	R7-8(A/D)	REFER TO DETAIL
DO NOT ENTER	R5-1	30"x30"
- ALL SIGNS SHALL BE MOUNTED WITH 5-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2LB GALVANIZED STEEL U-CHANNEL POST SET IN 3FT DEEP x 12IN DIA. CONCRETE FOOTING.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.
 

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACES	1205.08	4IN	WHITE
DIRECTIONAL ARROWS	---	4IN	WHITE
NO PARKING- FIRE LANE	---	4IN	YELLOW
HIGH-VISIBILITY CROSSWALK	1205.07	STD.	WHITE
STANDARD CROSSWALK	1205.07	STD.	WHITE
STOP BAR	1205.01	STD.	WHITE
EDGE LINES	1205.01	4IN	WHITE
EDGE LINES	1205.01	4IN	YELLOW
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE WHICH MAY BE THERMOPLASTIC OR ALKYD-RESIN TYPE PAINT.

**LEGEND**

- NCDOT SUPERPAVE (>6' WIDE)
  - 3" BCSC (TYPE-S 9.5B), 4" BCBC (TYPE 119.0B), 10" ABC
  - NCDOT SUPERPAVE (<= 6' WIDE)
    - 3" BCSC (TYPE-S 9.5B), 4" BCBC (TYPE 119.0B), 5" BCBC (TYPE B 25.0B)
- HEAVY-DUTY PAVING (2" BCSC TYPE-S 9.5B, 8" ABC)
- LIGHT-DUTY PAVING (2" BCSC TYPE-S 9.5B, 6" ABC)
- CONCRETE PAVING (8" THICK 3000 PSI CONCRETE W/ 6"x6" 1% WWF)
- CONCRETE SIDEWALK (4" THICK 3000 PSI CONCRETE)
- HANDICAPPED ACCESSIBLE ROUTE
- 20' DRAINAGE EASEMENT
- PRIVATE SCM ACCESS & MAINTENANCE EASEMENT
- SCM MAINTENANCE EASEMENT
- CITY OF RALEIGH WATERLINE EASEMENT (1' EA. SIDE OF METER BOX, TYP.)
- 25' CROSS-ACCESS EASEMENT
- 10' TEMP. CONSTRUCTION EASEMENT (TYP. EA. SIDE OF 25' CROSS-ACCESS EASEMENT)

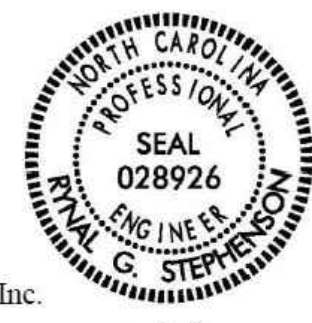
**TIA EXEMPTION**

Table 1: Trip Generation

Land Use (ITE Code)	Intensity	Daily Traffic (vpd)	Peak Hour Trips (vph)	
			AM Peak	PM Peak
Medical Office (720)	4,300 s.f.	77	14	14
Retail (822)	8,000 s.f.	293	8	20
<b>Total</b>		<b>370</b>	<b>22</b>	<b>34</b>

If you should have any questions or comments regarding this letter, please feel free to contact me at [stephenson@rameykemp.com](mailto:stephenson@rameykemp.com) or by phone at 919-872-5115.

Sincerely,  
  
 Rynal Stephenson, P.E.  
 Director of North Carolina Infrastructure Consulting Services, Inc.  
 d/b/a RAMEY KEMP ASSOCIATES



10/3/22

NC Corporate License #F-1489

LINE TABLE				
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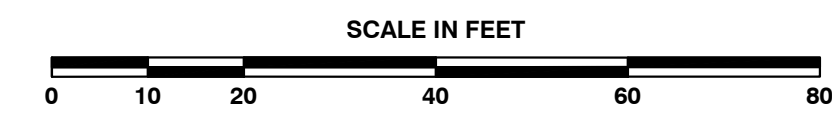
  

CURVE TABLE				
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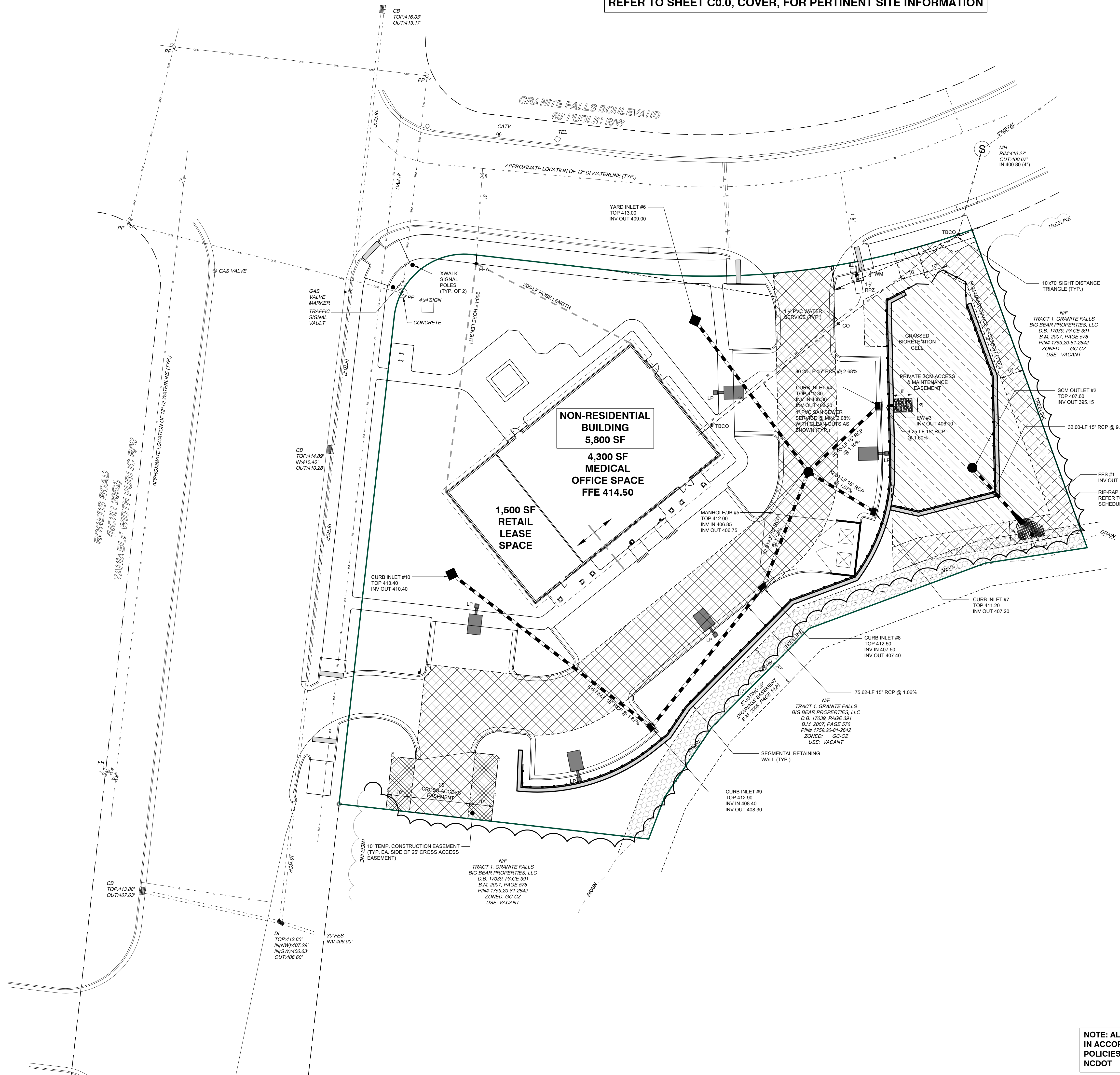
NO WETLANDS EXIST ON-SITE

NO FLOODPLAINS EXIST ON-SITE

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT



REFER TO SHEET C0.0, COVER, FOR PERTINENT SITE INFORMATION



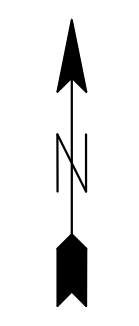
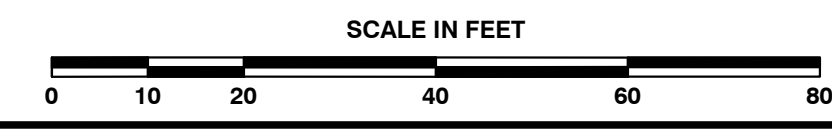
**LEGEND**

[Pattern]	20' DRAINAGE EASEMENT
[Pattern]	PRIVATE SCM ACCESS & MAINTENANCE EASEMENT
[Pattern]	SCM MAINTENANCE EASEMENT
[Pattern]	CITY OF RALEIGH WATERLINE EASEMENT (1' EA. SIDE OF METER BOX, TYP.)
[Pattern]	TEMP. CROSS-ACCESS EASEMENT
[Pattern]	10' TEMP. CONSTRUCTION EASEMENT (TYP. EA. SIDE OF TEMP. CROSS-ACCESS EASEMENT)

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**TJ ARCHITECTURE**

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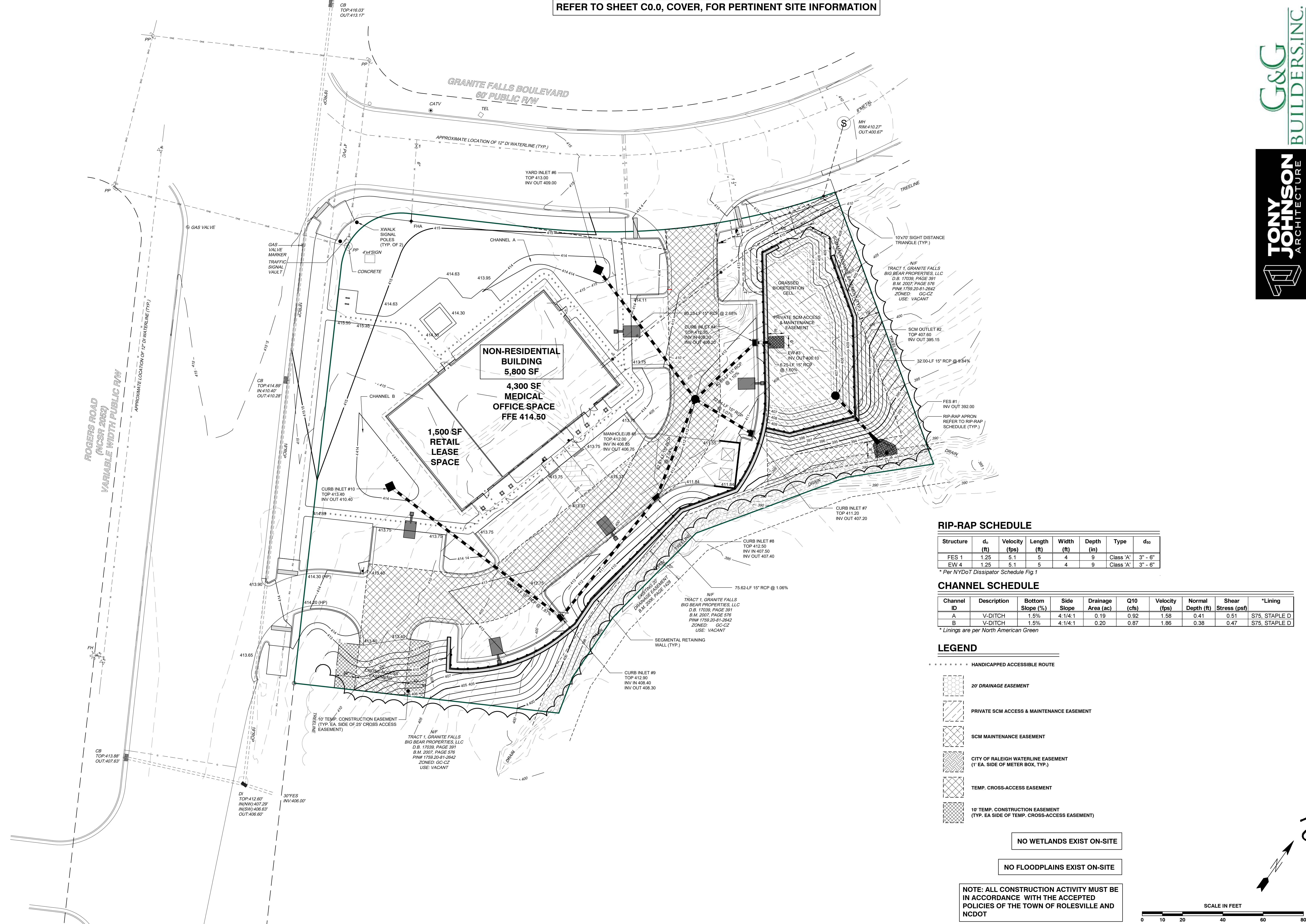
**UTILITY PLAN**  
 DATE: 10-03-22  
 JOB NO: 21027

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 A MEMBER OF *WakeSource*  
**971 GRANITE FALLS BOULEVARD**  
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**SHEET C2.1**

REFER TO SHEET C0.0, COVER, FOR PERTINENT SITE INFORMATION



**RIP-RAP SCHEDULE**

Structure	d <sub>50</sub> (ft)	Velocity (fps)	Length (ft)	Width (ft)	Depth (ft)	Type	d <sub>50</sub>
FES 1	1.25	5.1	5	4	9	Class 'A'	3" - 6"
EW 4	1.25	5.1	5	4	9	Class 'A'	3" - 6"

\* Per NYDOT Dissipator Schedule Fig.1

**CHANNEL SCHEDULE**

Channel ID	Description	Bottom Slope (%)	Side Slope	Drainage Area (ac)	Q10 (cfs)	Velocity (fps)	Normal Depth (ft)	Shear Stress (psf)	*Lining
A	V-DITCH	1.5%	4:1/4:1	0.19	0.92	1.58	0.41	0.51	S75, STAPLE D
B	V-DITCH	1.5%	4:1/4:1	0.20	0.87	1.86	0.38	0.47	S75, STAPLE D

\* Linings are per North American Green

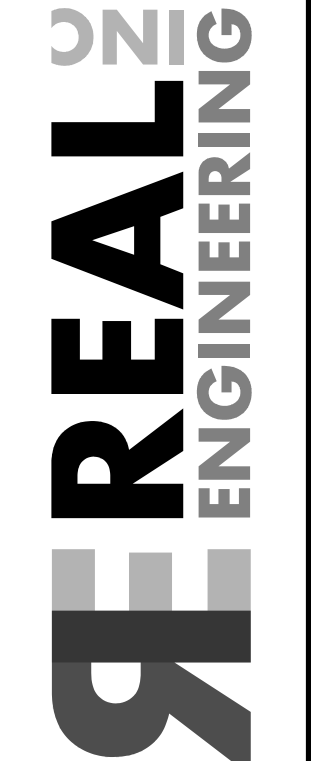
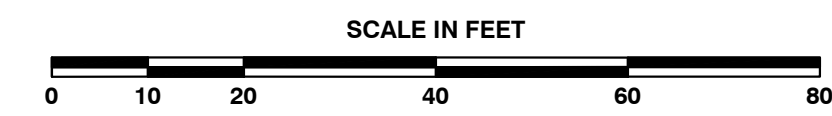
**LEGEND**

- ..... HANDICAPPED ACCESSIBLE ROUTE
- [Pattern] 20' DRAINAGE EASEMENT
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- [Pattern] SCM MAINTENANCE EASEMENT
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- [Pattern] 10' TEMP. CONSTRUCTION EASEMENT (TYP. EA. SIDE OF TEMP. CROSS-ACCESS EASEMENT)

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6109 WILKINSBURG ROAD  
RALEIGH, NC 27612  
(919) 539-7340  
NCBELS FIRM NO: C-4406

DATE: 10-03-22  
JOB NO.: 21027  
**GRADING & DRAINAGE PLAN**  
SCALE: 1" = 20'

**NorthWake**  
EYE CARE  
A MEMBER OF *WakeSource*

**971 GRANITE FALLS BOULEVARD**  
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

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SHEET  
**C3.1**





- REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE**
- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE, 919-819-8907. OBTAIN A LAND DISTURBING PERMIT.
  - INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND MAT BASIN EMBANKMENTS IMMEDIATELY AFTER CONSTRUCTION.
  - CALL ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE, 919-819-8907, FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
  - BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
  - INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
  - STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENuded AREAS PER GROUND STABILIZATION TIME FRAMES.
  - WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE, 919-819-8907, FOR AN INSPECTION.
  - IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC. AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
  - WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE, 919-819-8907. OBTAIN A CERTIFICATE OF COMPLETION.

TOTAL DISTURBED AREA: 1.4 AC  
 P.I.N.: 1759-71-7504  
 ZONED: TGFV CG-CZ (MA04-02)  
 WATERSHED: NEUSE RIVER

\*NOTE: CONTRACTOR TO REVIEW AND ADHERE TO THIS SPECIAL CONSTRUCTION SEQUENCE

ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AFTER EVERY RAIN EVENT AND ONCE PER WEEK. THE CONTRACTOR OR THE OWNER SHALL CONDUCT INSPECTIONS IN COMPLIANCE WITH NPDES REQUIREMENTS AND RECORDS OF THOSE INSPECTIONS SHALL BE KEPT AVAILABLE ONSITE.

ALL ADJACENT STREETS WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.



**REAL ENGINEERING**  
 6109 WILKINSBURG ROAD  
 RALEIGH, NC 27612  
 (919) 539-7340  
 NCBELS FIRM NO: C-4406

TOWN OF ROLESVILLE PROJECT NO. SP 22-08

JOB NO: 21027 DATE: 10-03-22  
**EROSION CONTROL PLAN (STAGE 1)**  
 SCALE: 1" = 20'

**NorthWake Eye Care**  
 A MEMBER OF *WakeSource*  
**971 GRANITE FALLS BOULEVARD**  
 TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

NO.	DATE	DESCRIPTION
7	03-06-24	PER WAKE CO COMMENTS
6	01-25-24	PER WAKE CO COMMENTS
5	11-01-23	PER NCDOT COMMENTS
4	10-17-23	PER WAKE CO NCDOT
3	08-09-23	WAKE CO EC SUBMITTAL
2	06-02-23	PER TOR COMMENTS
1	04-03-23	PER TOR COMMENTS

- LEGEND**
- 20' DRAINAGE EASEMENT
  - TEMP LOW SPOT SILT FENCE OUTLET
  - TEMP WATTLE
  - TEMP SILT SOCK
  - TEMP INLET PROTECTION
  - TEMP CONSTRUCTION ENTRANCE
  - BELOW-GRADE CONCRETE WASHOUT
  - COIR BAFFLES
  - TEMP SILT FENCE
  - LIMITS OF DISTURBANCE
  - TEMP FILTER BAG/PAD

**SEDIMENT BASIN SCHEDULE**

TYPE	STAGE 2
DRAINAGE AREA	RISER BARREL SKIMMER BASIN
DENUDED AREA	0.94 AC
C-VALUE	1.4 AC
Q <sub>2</sub>	0.698
Q <sub>10</sub>	3.8 CFS
Q <sub>25</sub>	4.7 CFS
VOL PROVIDED	6.3 CFS
SA REQUIRED	1692 CF
SA PROVIDED	6576 CF
SIZE	2048 SF
DEPTH	2810 SF
SLOPE RATIO	MIN. SIZE 78" L x 26" W
WEIR LENGTH	4 FT
SKIMMER?	2:1
ORIFICE SIZE	10 FT
NOTES:	YES**
	1.5"
	0.75"
	USE PERM. BIORETENTION FOOTPRINT FOR TEMP.

NOTES: \*VOLUME REQUIRED (CF) = 1800 \* DRAINAGE AREA (AC)  
 SURFACE AREA REQUIRED (SF) = 325 \* Q<sub>25</sub> (CFS)  
 \*\*A SKIMMER WILL BE USED DURING LIFE OF CONSTRUCTION. ADD COIR FIBER BAFFLES TO BASIN

WEIR CALCULATION:  $Q_{25} = c_w L h^{3/2}$  (WHERE  $c_w = 3.0$  AND  $h = 1.5$ )

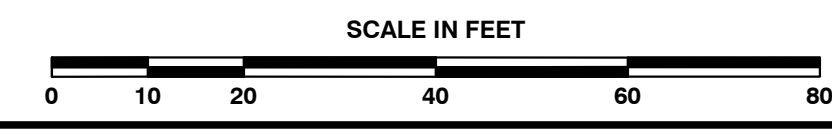
**SKIMMER SCHEDULE**

Skimmer Basin
Stage 2 - Basin 1
0.94 Drainage Area (Acres)
6.30 Peak Flow from 25-year Storm (cfs)
1692 Required Volume ft <sup>3</sup>
2048 Required Surface Area ft <sup>2</sup>
26 Suggested Width ft
78 Suggested Length ft
10 Trial Weir Length ft
1.5 Trial Depth of Flow ft
55.1 Spillway Capacity cfs
1.5 Skimmer Size (inches)
0.125 Head on Skimmer (feet)
0.75 Orifice Size (1/4 inch increments)
3.68 Dewatering Time (days)
Suggest about 3-5 days

NO WETLANDS EXIST ON-SITE

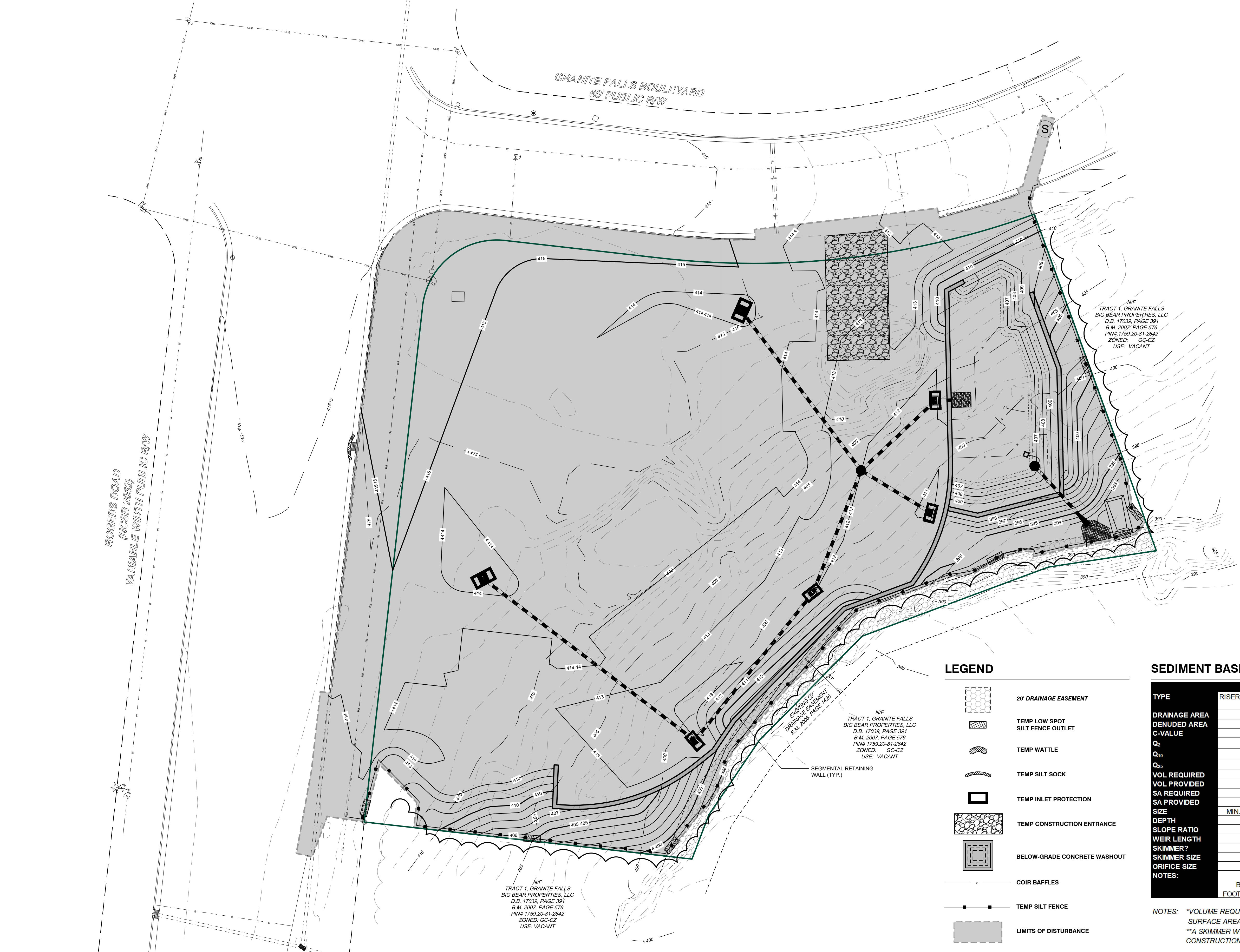
NO FLOODPLAINS EXIST ON-SITE

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT



SHEET  
**C3.3**

REFER TO SHEET C0.0, COVER, FOR PERTINENT SITE INFORMATION



- REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE**
- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE, 919-819-8907. OBTAIN A LAND DISTURBING PERMIT.
  - INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND MAT BASIN EMBANKMENTS IMMEDIATELY AFTER CONSTRUCTION.
  - CALL ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE, 919-819-8907, FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
  - BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
  - INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
  - STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDEED AREAS PER GROUND STABILIZATION TIME FRAMES.
  - WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE, 919-819-8907, FOR AN INSPECTION.
  - IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
  - WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE, 919-819-8907. OBTAIN A CERTIFICATE OF COMPLETION.

TOTAL DISTURBED AREA: 1.4 AC  
 P.I.N.: 1759-71-7504  
 ZONED: TGFV CG-CZ (MA04-02)  
 WATERSHED: NEUSE RIVER

\*NOTE: CONTRACTOR TO REVIEW AND ADHERE TO THIS SPECIAL CONSTRUCTION SEQUENCE

ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AFTER EVERY RAIN EVENT AND ONCE PER WEEK. THE CONTRACTOR OR THE OWNER SHALL CONDUCT INSPECTIONS IN COMPLIANCE WITH NPDES REQUIREMENTS AND RECORDS OF THOSE INSPECTIONS SHALL BE KEPT AVAILABLE ONSITE.

ALL ADJACENT STREETS WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.

**LEGEND**

- 20' DRAINAGE EASEMENT
- TEMP LOW SPOT
- SILT FENCE OUTLET
- TEMP WATTLE
- TEMP SILT SOCK
- TEMP INLET PROTECTION
- TEMP CONSTRUCTION ENTRANCE
- BELOW-GRADE CONCRETE WASHOUT
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**SEDIMENT BASIN SCHEDULE**

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DENUDED AREA	1.4 AC
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SA REQUIRED	6576 CF
SA PROVIDED	2048 SF
SIZE	2810 SF
DEPTH	MIN. SIZE 78" x 26"W
SLOPE RATIO	4 FT
WEIR LENGTH	2:1
SKIMMER?	10 FT
SKIMMER SIZE	YES**
ORIFICE SIZE	1.5"
ORIFICE SIZE	0.75"
NOTES:	USE PERM. BIORETENTION FOOTPRINT FOR TEMP.

NOTES: \*VOLUME REQUIRED (CF) = 1800 \* DRAINAGE AREA (AC)  
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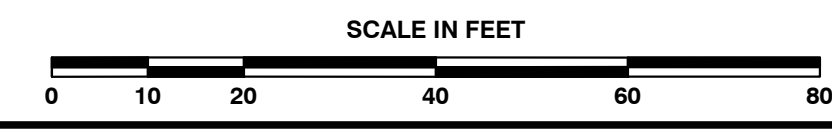
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1.5 Skimmer Size (inches)
0.125 Head on Skimmer (feet)
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3.68 Dewatering Time (days)
Suggest about 3-5 days

NO WETLANDS EXIST ON-SITE

NO FLOODPLAINS EXIST ON-SITE

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT



**REAL ENGINEERING**  
 6109 WILKINSBURG ROAD  
 RALEIGH, NC 27612  
 (919) 539-7340  
 NCBELS FIRM NO: C-4406

**EROSION CONTROL PLAN (STAGE 2)**  
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 SCALE: 1" = 20'

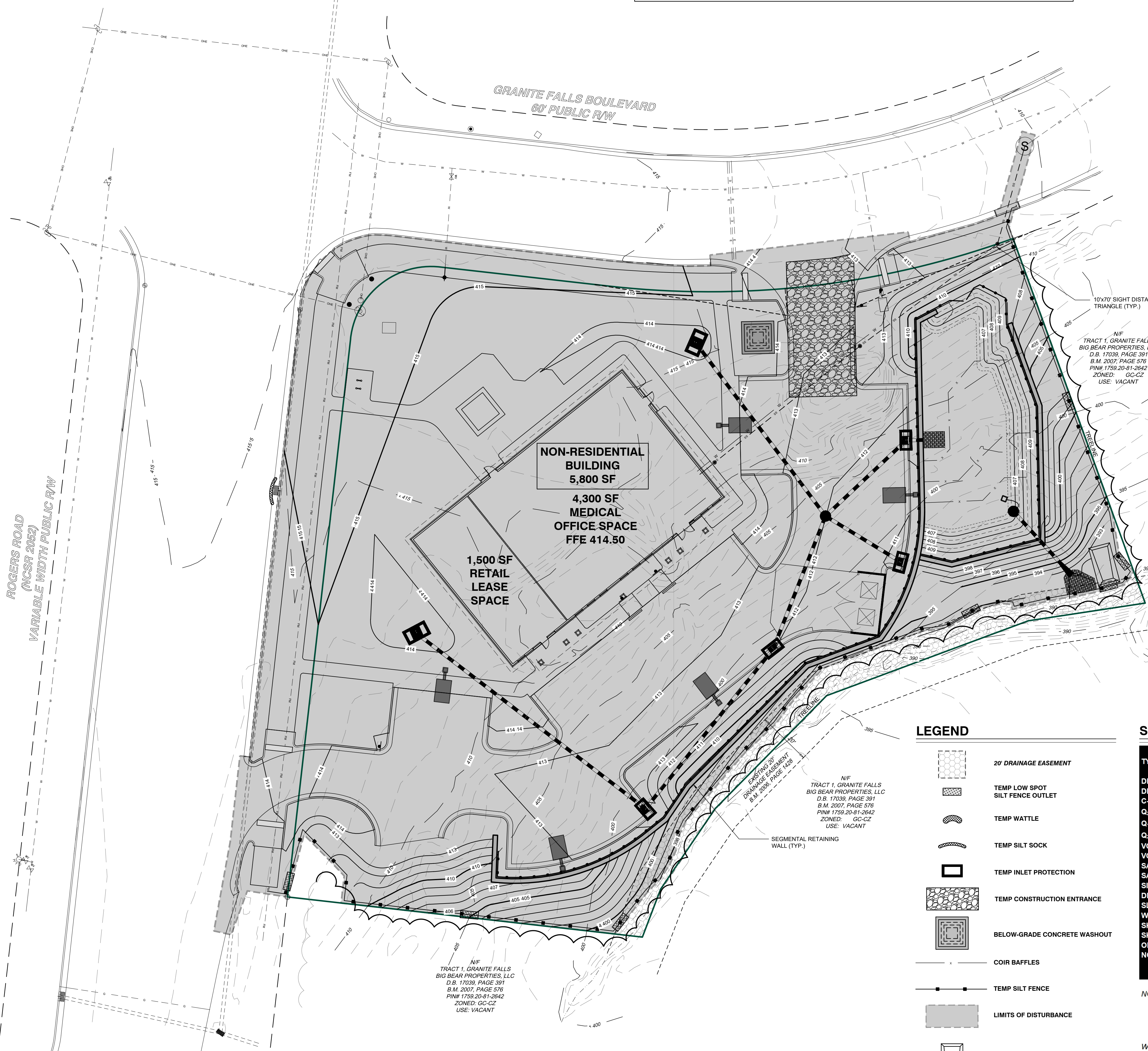
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SEAL 029993  
 03-06-24  
**SHEET C3.4**



REFER TO SHEET C0.0, COVER, FOR PERTINENT SITE INFORMATION



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  - BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
  - INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
  - STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENuded AREAS PER GROUND STABILIZATION TIME FRAMES.
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ALL ADJACENT STREETS WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.

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

- REQUIRED WAKE COUNTY SCM CONVERSION SEQUENCE**
- CONTACT YOUR FIELD INSPECTOR TO DETERMINE IF THE SITE IS STABLE ENOUGH TO CONVERT THE BASIN(S). INSTALL PERMANENT STORMWATER DEVICES. CONVERSION FOR SUBDIVISIONS SHOULD START NO LATER THAN 75% BUILD OUT. NON-RESIDENTIAL PROJECTS SHALL BE COMPLETED PRIOR TO BUILDING PERMIT CO (CERTIFICATE OF OCCUPANCY).
  - REVIEW YOUR CONSTRUCTION PLAN FOR CONVERSION SEQUENCE / NOTES FROM THE ENGINEER. IF NO NOTES, CONTACT THE DESIGN ENGINEER.
  - CONVERT THE BASIN AND STABILIZE/ LANDSCAPE EACH STORMWATER DEVICE PER THE APPROVED PLAN.
  - CONTACT YOUR EROSION CONTROL INSPECTOR TO VERIFY THAT EACH DEVICE HAS BEEN CONVERTED AND PERMANENTLY STABILIZED.
  - HAVE THE ENGINEER SUBMIT AS-BUILT PLANS WITH FIELD INSPECTION REPORT AND PHOTOS THROUGH THE PERMIT PORTAL.
  - STORMWATER CONTROL MEASURES (SCMS) MUST PASS COUNTY FIELD INSPECTION FOR APPROVAL.
- CONTACT: watershedmanagement@wake.gov

**LEGEND**

- 20' DRAINAGE EASEMENT
- TEMP LOW SPOT
- SILT FENCE OUTLET
- TEMP WATTLE
- TEMP SILT SOCK
- TEMP INLET PROTECTION
- TEMP CONSTRUCTION ENTRANCE
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**SEDIMENT BASIN SCHEDULE**

TYPE	STAGE 2	
	RISER BARREL SKIMMER	BASIN
DRAINAGE AREA	0.94 AC	
DENUDED AREA	1.4 AC	
C-VALUE	0.698	
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SLOPE RATIO	2:1	
WEIR LENGTH	10 FT	
SKIMMER?	YES**	
SKIMMER SIZE	1.5"	
ORIFICE SIZE	0.75"	
NOTES:	USE PERM. BIORETENTION FOOTPRINT FOR TEMP.	

NOTES: \*VOLUME REQUIRED (CF) = 1800 \* DRAINAGE AREA (AC)  
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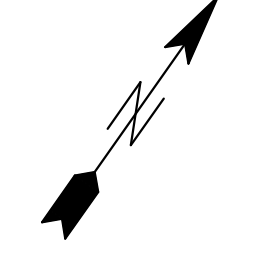
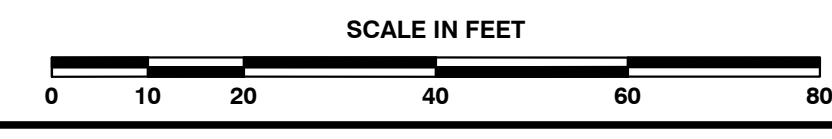
**SKIMMER SCHEDULE**

Skimmer Basin	
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78 Suggested Length ft	
10 Trial Weir Length ft	
1.5 Trial Depth of Flow ft	
55.1 Spillway Capacity cfs	
1.5 Skimmer Size (inches)	
0.125 Head on Skimmer (feet)	
0.75 Orifice Size (1/4 inch increments)	
3.68 Dewatering Time (days)	
Suggest about 3-5 days	

NO WETLANDS EXIST ON-SITE

NO FLOODPLAINS EXIST ON-SITE

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT



**G&G BUILDERS, INC.**

**TJON JOHNSON ARCHITECTURE**

**REAL ENGINEERING**

6109 WILKINSBURG ROAD  
 RALEIGH, NC 27612  
 (919) 539-7340  
 NCBELS FIRM NO: C-4406

**EROSION CONTROL PLAN (STAGE 3)**

SCALE: 1" = 20'

JOB NO: 21027 DATE: 10-03-22

**NorthWake Eye Care**  
 A MEMBER OF *WakeSource*

971 GRANITE FALLS BOULEVARD  
 TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

NO.	DATE	DESCRIPTION
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SHEET  
**C3.5**

REFER TO SHEET C0.0, COVER, FOR PERTINENT SITE INFORMATION

**NPDES GROUND STABILIZATION REQUIREMENTS**

- SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
  - ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
  - ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- CONDITIONS - IN MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:
  - EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.
  - ALL SLOPES 50' IN LENGTH OR GREATER SHALL APPLY THE GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE IS FLATTER THAN 4:1. SLOPES LESS THAN 50' SHALL APPLY GROUND COVER WITHIN 14 DAYS EXCEPT WHEN SLOPES ARE STEEPER THAN 3:1, THE 7-DAY REQUIREMENT APPLIES.
  - ANY SLOPED AREA FLATTER THAN 4:1 SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT.
  - SLOPES 10' OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT EXCEPT WHEN THE SLOPE IS STEEPER THAN 2:1.
  - ALTHOUGH STABILIZATION IS USUALLY SPECIFIED AS GROUND COVER, OTHER METHODS, SUCH AS CHEMICAL STABILIZATION, MAY BE ALLOWED ON A CASE-BY-CASE BASIS.
  - FOR PORTIONS OF PROJECT WITHIN THE SEDIMENT CONTROL COMMISSION-DEFINED "HIGH QUALITY WATER ZONE" (15A NCAC 04A.0105), STABILIZATION WITH GROUND COVER SHALL BE ACHIEVED AS SOON AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS OF THE SITE WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACT.
  - PORTIONS OF A SITE THAT ARE LOWER IN ELEVATION THAN ADJACENT DISCHARGE LOCATIONS AND ARE NOT EXPECTED TO DISCHARGE DURING CONSTRUCTION MAY BE EXEMPT FROM THE TEMPORARY GROUND COVER REQUIREMENTS IF IDENTIFIED ON THE APPROVED E&SC PLAN OR ADDED BY THE PERMITTING AUTHORITY.

**NPDES NOTES**

- THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000;
- THIS PAGE CAN BE APPROVED BY THE CITY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY;
- THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000;
- THE TOWN/COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT A PART OF THE APPROVED PLANS FOR PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY CODE

**LEGEND**

- 20' DRAINAGE EASEMENT
- TEMP LOW SPOT SILT FENCE OUTLET
- TEMP SILT SOCK
- TEMP CONSTRUCTION ENTRANCE
- TEMP SILT FENCE
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SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	Stabilize within this many calendar days after ceasing land disturbance	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 30' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

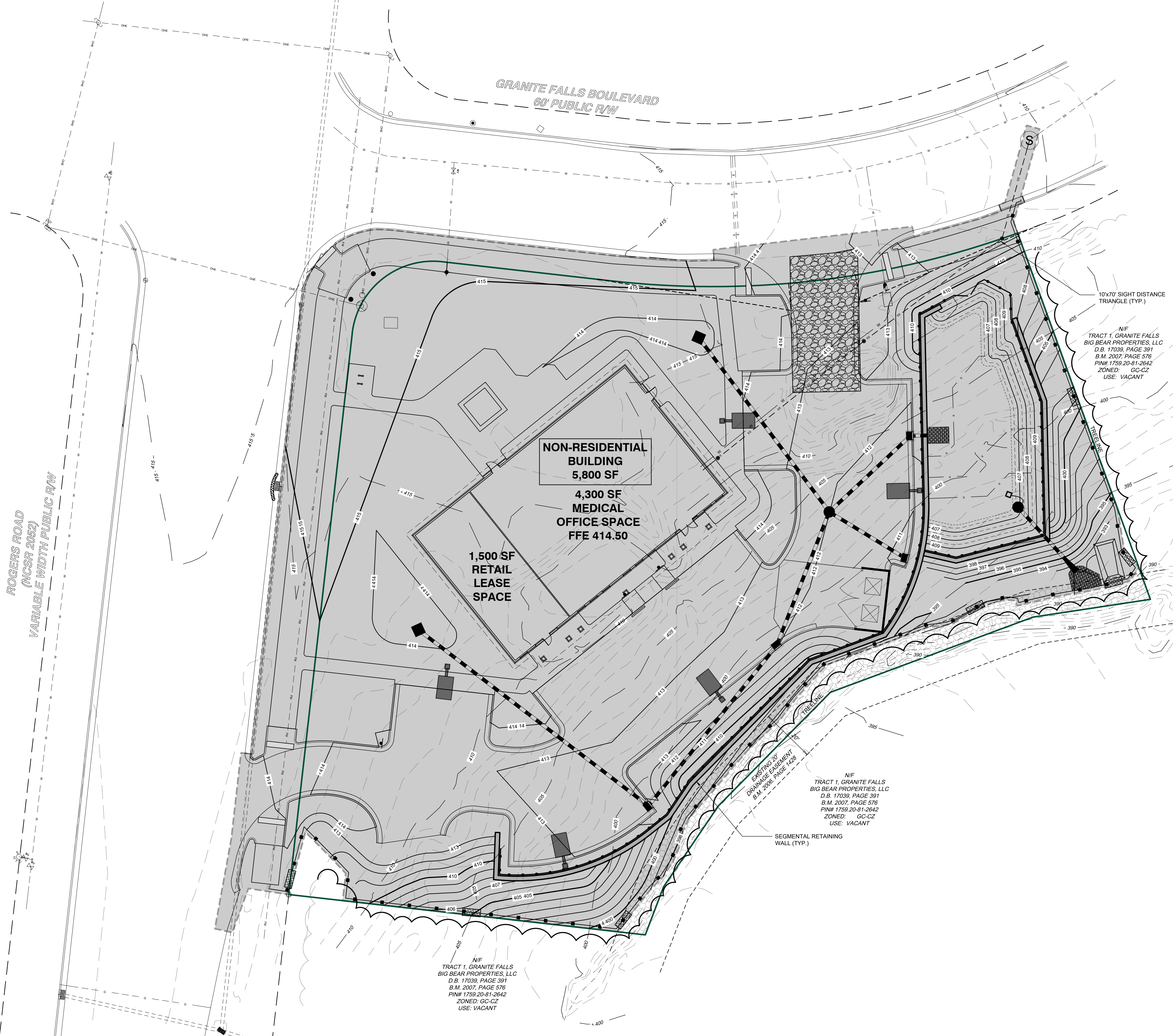
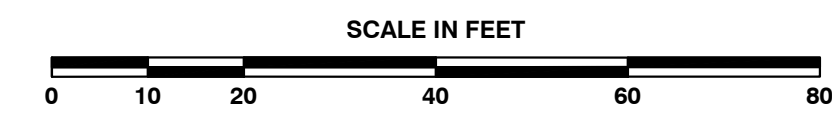
Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization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

GROUND STABILIZATION SPECIFICATION	
Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:	
Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> <li>• Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>• Hydroseeding</li> <li>• Rolled erosion control products with or without temporary grass seed</li> <li>• Appropriately applied straw or other mulch</li> <li>• Plastic sheeting</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>• Geotextile fabrics such as permanent soil reinforcement matting</li> <li>• Hydroseeding</li> <li>• Shrubs or other permanent plantings covered with mulch</li> <li>• Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>• Structural methods such as concrete, asphalt or retaining walls</li> <li>• Rolled erosion control products with grass seed</li> </ul>

NO WETLANDS EXIST ON-SITE

NO FLOODPLAINS EXIST ON-SITE

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT

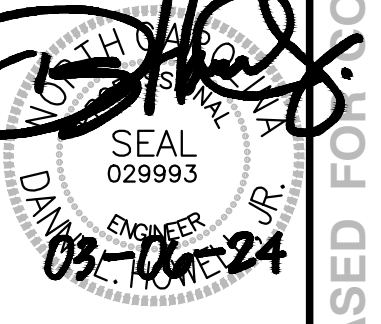


**REAL ENGINEERING**  
 6109 WILKINSBURG ROAD  
 RALEIGH, NC 27612  
 (919) 539-7340  
 NCBELS FIRM NO: C-4406

**NPDES STABILIZATION PLAN**  
 SCALE: 1" = 20'

**NorthWake Eye Care**  
 A MEMBER OF *WakeSource*  
**971 GRANITE FALLS BOULEVARD**  
 TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

NO.	DATE	DESCRIPTION
7	03-05-24	PER WAKE CO COMMENTS
6	01-25-24	PER WAKE CO COMMENTS
5	11-01-23	PER NCDOT COMMENTS
4	10-17-23	PER WAKE CO NCDOT
3	08-09-23	WAKE CO EC SUBMITTAL
2	06-02-23	PER TOR COMMENTS
1	04-03-23	PER TOR COMMENTS



**SHEET C3.6**

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

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

**SECTION E: GROUND STABILIZATION**

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

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

**GROUND STABILIZATION SPECIFICATION**

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

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> <li>Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>Hydroseeding</li> <li>Rolled erosion control products with or without temporary grass seed</li> <li>Appropriately applied straw or other mulch</li> <li>Plastic sheeting</li> </ul>	<ul style="list-style-type: none"> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt or retaining walls</li> <li>Rolled erosion control products with grass seed</li> </ul>

**POLYACRYLAMIDES (PAMS) AND FLOCCULANTS**

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

**EQUIPMENT AND VEHICLE MAINTENANCE**

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

**LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**

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

**PAINT AND OTHER LIQUID WASTE**

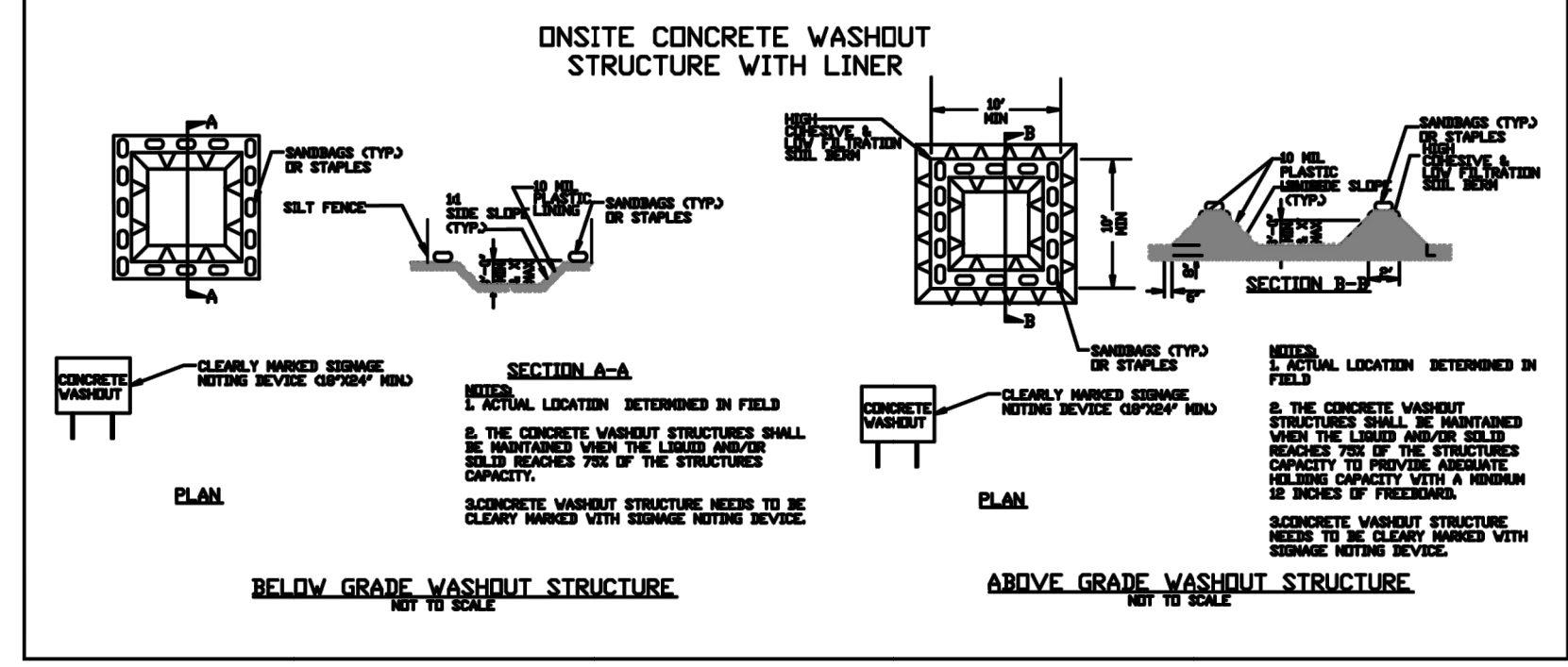
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

**PORTABLE TOILETS**

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

**EARTHEN STOCKPILE MANAGEMENT**

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- 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.



**CONCRETE WASHOUTS**

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

**HERBICIDES, PESTICIDES AND RODENTICIDES**

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- 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.

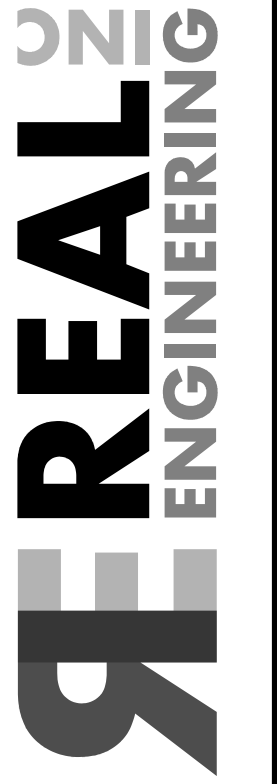
**HAZARDOUS AND TOXIC WASTE**

- 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**

**EFFECTIVE: 04/01/19**

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT



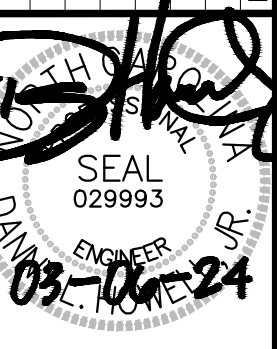
6109 WILKINSBURG ROAD  
RALEIGH, NC 27612  
(919) 539-7340  
NCBELS FIRM NO: C-4406

DATE: 10-03-22  
JOB NO: 21027  
NCG01 GROUND STABILIZATION PLAN  
SCALE: N.T.S.

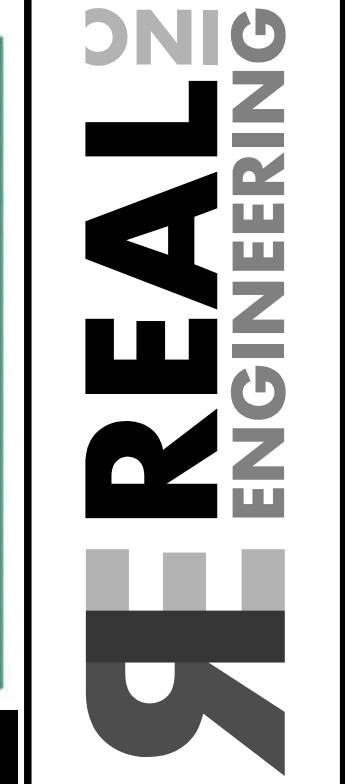


971 GRANITE FALLS BOULEVARD  
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

NO.	DATE	DESCRIPTION
7	03-06-24	PER WAKE CO COMMENTS
6	01-25-24	PER WAKE CO COMMENTS
5	11-01-23	PER NCDOT COMMENTS
4	10-17-23	PER WAKE CO NCDOT
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2	06-02-23	PER TOR COMMENTS
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SHEET  
**C3.7**



6109 WILKINSBURG ROAD  
RALEIGH, NC 27612  
(919) 539-7340  
NCBELS FIRM NO: C-4406

DATE: 10-03-22  
JOB NO: 21027  
NCG01 SELF INSPECTION PLAN

NorthWake Eye Care  
A MEMBER OF WakeSource  
971 GRANITE FALLS BOULEVARD  
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

NO.	DATE	DESCRIPTION
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SHEET  
C3.8

### PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

#### SECTION A: SELF-INSPECTION

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

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

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

### PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

#### SECTION B: RECORDKEEPING

##### 1. E&SC Plan Documentation

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

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

##### 2. Additional Documentation to be Kept on Site

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

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

##### 3. Documentation to be Retained for Three Years

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

### PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

#### SECTION C: REPORTING

##### 1. Occurrences that Must be Reported

- Permittees shall report the following occurrences:
- (a) Visible sediment deposition in a stream or wetland.
  - (b) Oil spills if:
    - They are 25 gallons or more,
    - They are less than 25 gallons but cannot be cleaned up within 24 hours,
    - They cause sheen on surface waters (regardless of volume), or
    - They are within 100 feet of surface waters (regardless of volume).
  - (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
  - (d) Anticipated bypasses and unanticipated bypasses.
  - (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

##### 2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the <a href="#">NC 303(d) List</a> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> </ul>
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>A report at least ten days before the date of the bypass, if possible.</b> The report shall include an evaluation of the anticipated quality and effect of the bypass.</li> </ul>
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that includes an evaluation of the quality and effect of the bypass.</li> </ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul>

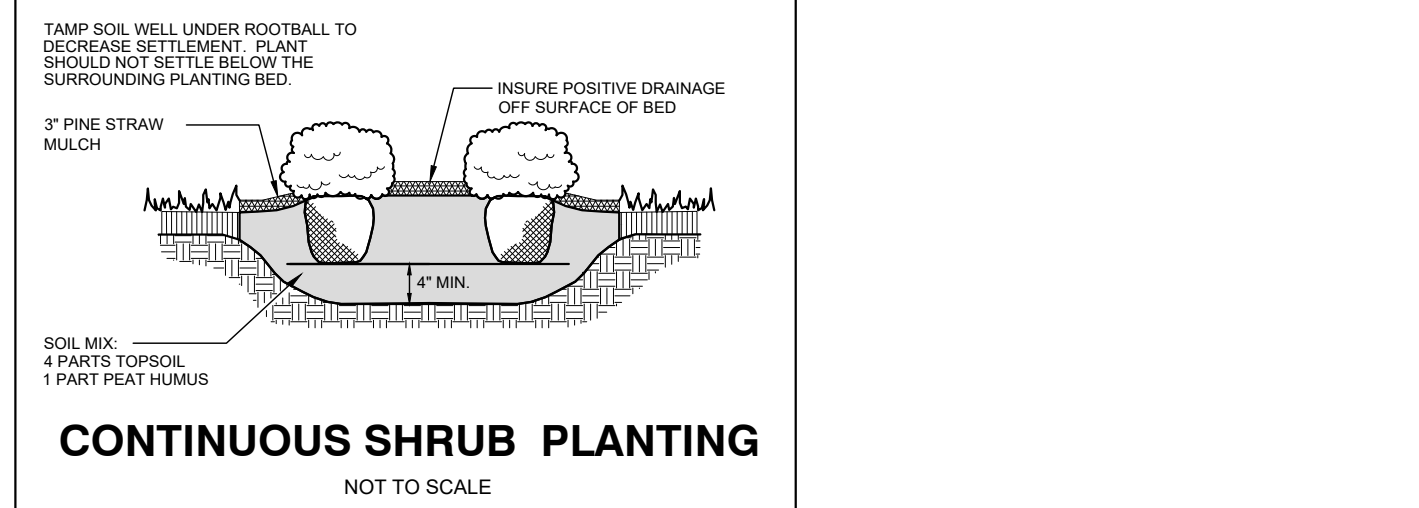
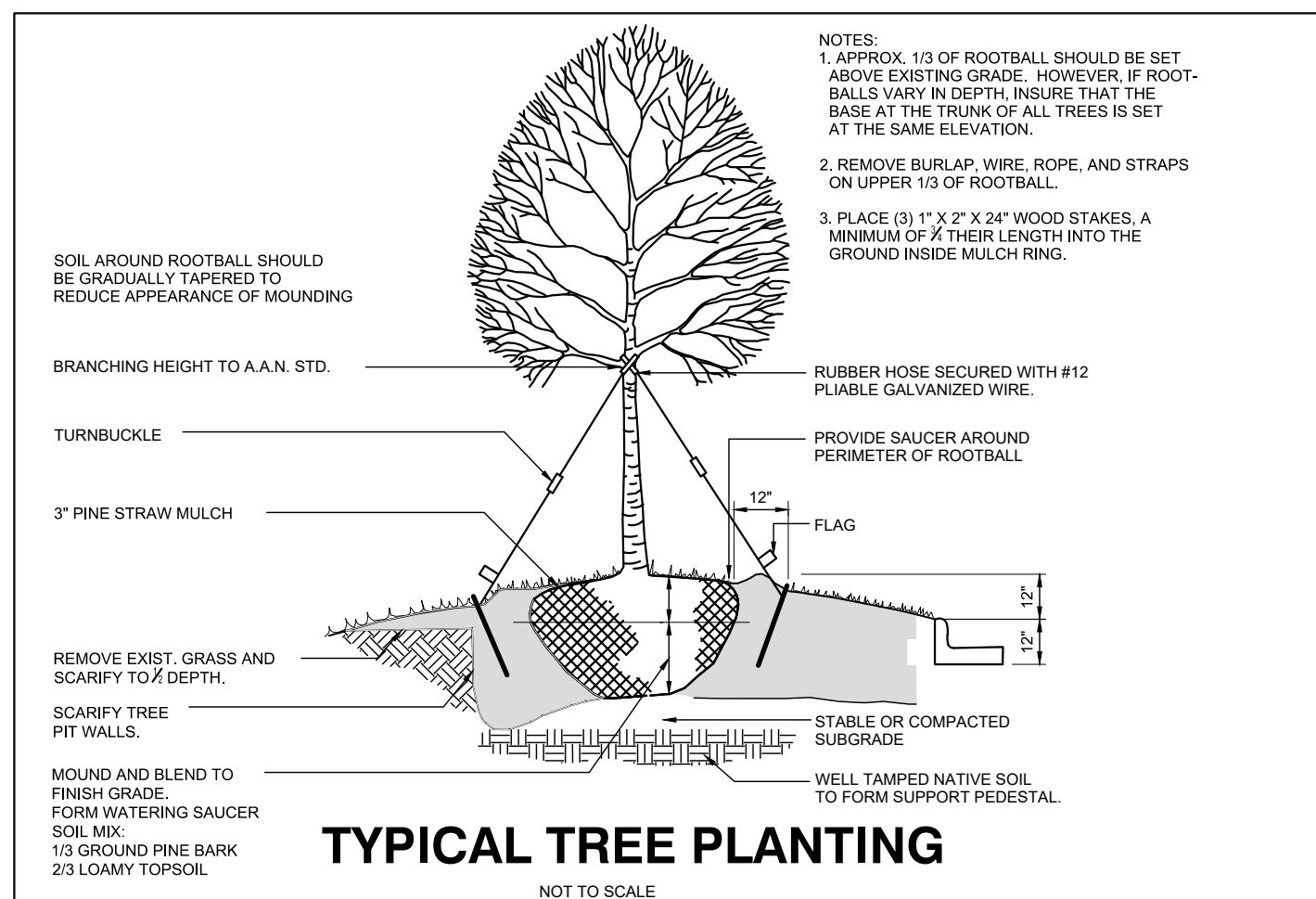


## NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT

REFER TO SHEET C0.0, COVER, FOR PERTINENT SITE INFORMATION



**LANDSCAPE CALCULATIONS**

**STREETYARD BUFFERS**

**GRANITE FALLS BOULEVARD**  
(236 LF OF 30' THOROUGHFARE BUFFER)

- 1 CANOPY TREE/40 LF: 236/40 x 1 = 6 CANOPY TREES REQ'D/6 PROV'D

**ROGERS ROAD**  
(229 LF OF 30' THOROUGHFARE BUFFER)

- 1 CANOPY TREE/40 LF: 229/40 x 1 = 6 CANOPY TREES REQ'D/6 PROV'D

\*ADDED A SINGLE CANOPY TREE TO SMALL OPEN SPACE: PLAZA RAISED PLANTER PARKING, TOTALS 13 TREES

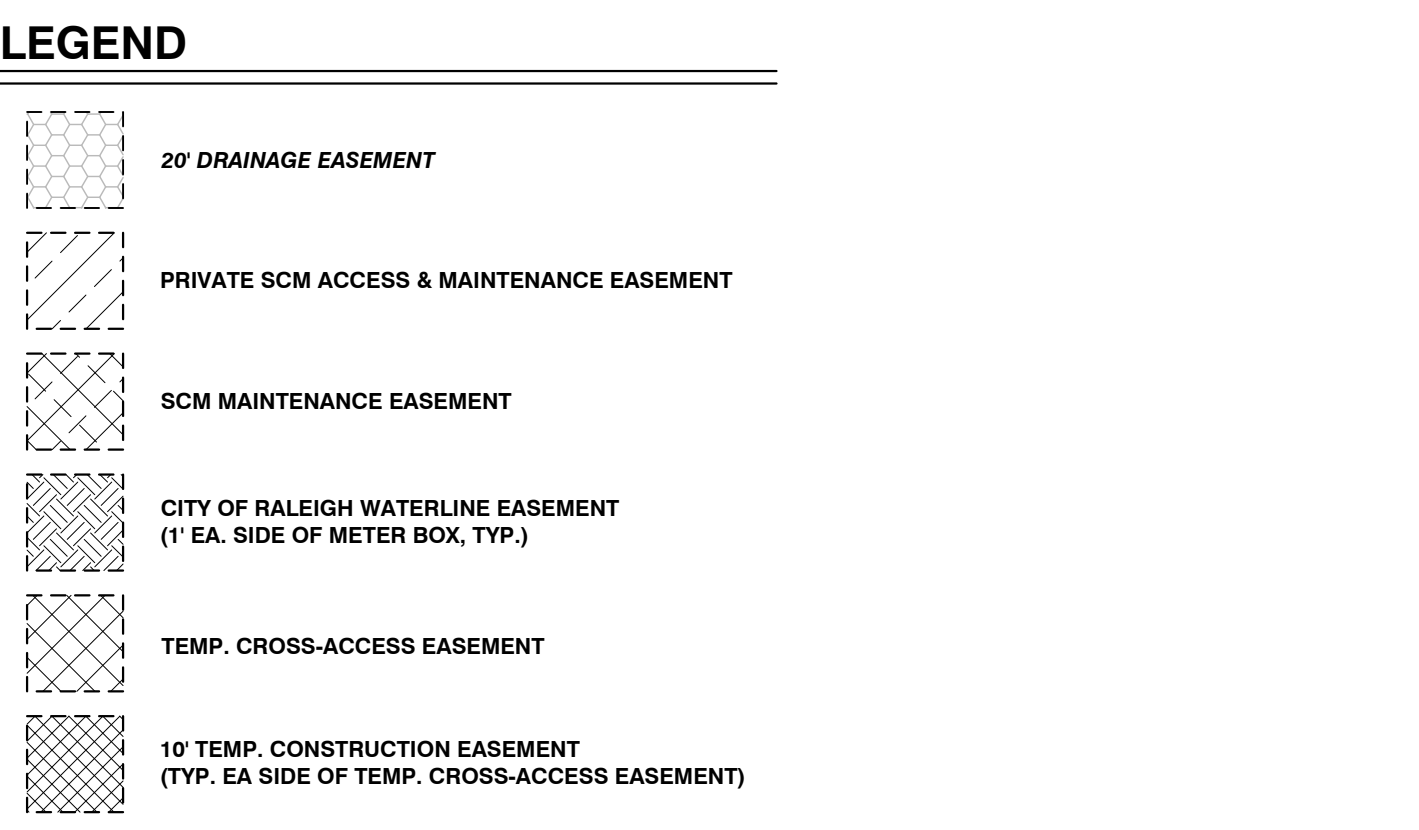
**PARKING LOT LANDSCAPING**

- 1 CANOPY TREE PER TERMINAL/INTERNAL ISLAND
- 5 PARKING BAYS/3 ISLANDS: 5 x 1 = 5 CANOPY TREES REQ'D/5 PROV'D
- ALL PARKING SPACES SHALL BE WITHIN SIXTY (60) FEET OF TRUNK OF CANOPY TREE

**PLANT SCHEDULE**

KEY	SCIENTIFIC NAME	COMMON NAME	QUAN.	CAL	HT	ROOT	REMARKS
<b>CANOPY TREES</b>							
AR	Acer rubrum 'Red Sunset'	Red Sunset Maple	6	3"	12'	B&B	Streetyard
QP	Quercus palustris	Pin Oak	7	3"	12'	B&B	Streetyard
CC	Carpinus caroliniana	American Hornbeam	5	3"	12'	B&B	VUA/Parking Lot
<b>SHRUBS</b>							
AG	Abelia x 'Edward Goucher'	Edward Goucher	18		30"	cont	VUA/Parking Perimeter
PL	Prunus laurocerasus 'Schipkaensis'	Skip Laurel	16		30"	cont	VUA/Parking Perimeter

**SITE IS LESS THAN 2 ACRES, AND THEREFORE TREE PRESERVATION PER LDO 6.2.4.5 IS NOT REQUIRED**



NO WETLANDS EXIST ON-SITE

NO FLOODPLAINS EXIST ON-SITE

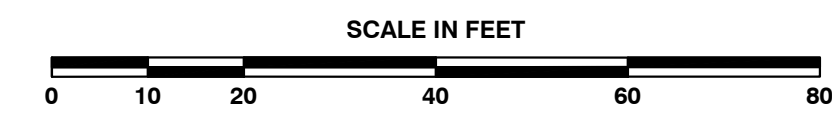
NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT

**LINE TABLE**

LINE	BEARING	DISTANCE
L-1	S 68°17'46" E	78.04'
L-2	S 14°13'47" E	19.02'

**CURVE TABLE**

CURVE	ARC LENGTH	RADIUS	CHORD LENGTH	CHORD BEARING
C-1	47.13'	30.00'	42.43'	N 16°21'13" E
C-2	151.88'	330.00'	150.54'	N 48°10'07" E



**G&G BUILDERS, INC.**

**TJ ARCHITECTURE**

**REAL ENGINEERING**

6109 WILKINSBURG ROAD  
RALEIGH, NC 27612  
(919) 539-7340  
NCBELS FIRM NO: C-4406

DATE: 10-03-22  
JOB NO: 21027

**LANDSCAPE PLAN**

SCALE: 1" = 20'

**NorthWake Eye Care**  
A MEMBER OF *WakeSource*

**971 GRANITE FALLS BOULEVARD**  
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

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SEAL 029993  
DATE 03-06-24

**SHEET L1.1**

REFER TO SHEET C0.0, COVER, FOR PERTINENT SITE INFORMATION

Lighting Fixture Schedule

Type Mark	Description	Manufacturer	Model	Wattage	Mounting Height
A	NEW LED POLE MOUNTED PARKING LOT LIGHTING - TYPE 3 DISTRIBUTION WITH TYPE 4 DISTRIBUTION	EATON/STREETWORKS	GAN-AF-03-LED-U-TW4	166.0 W	30'

**Streetworks**  
GAN Galleon  
Area / Roadway Luminaire

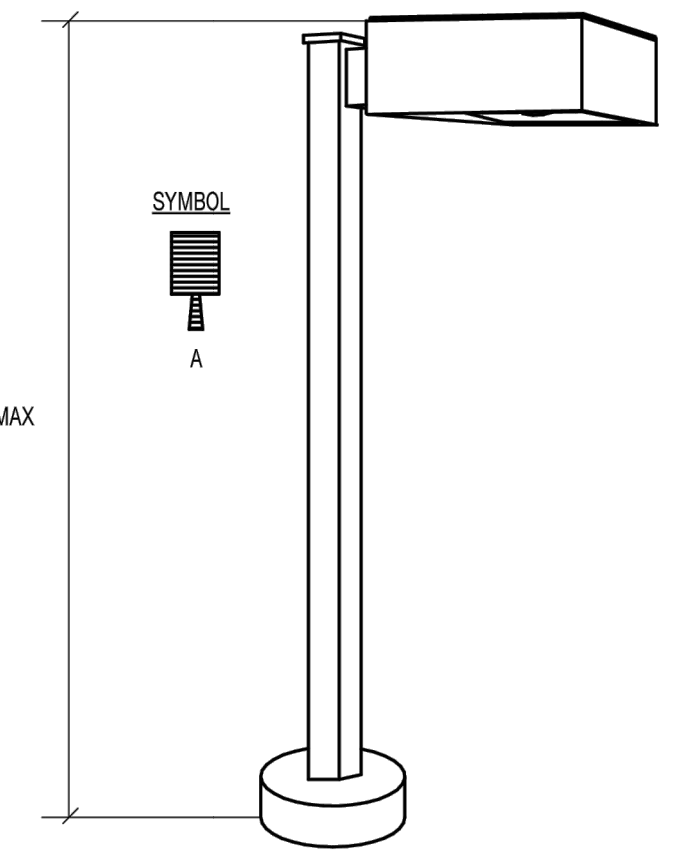
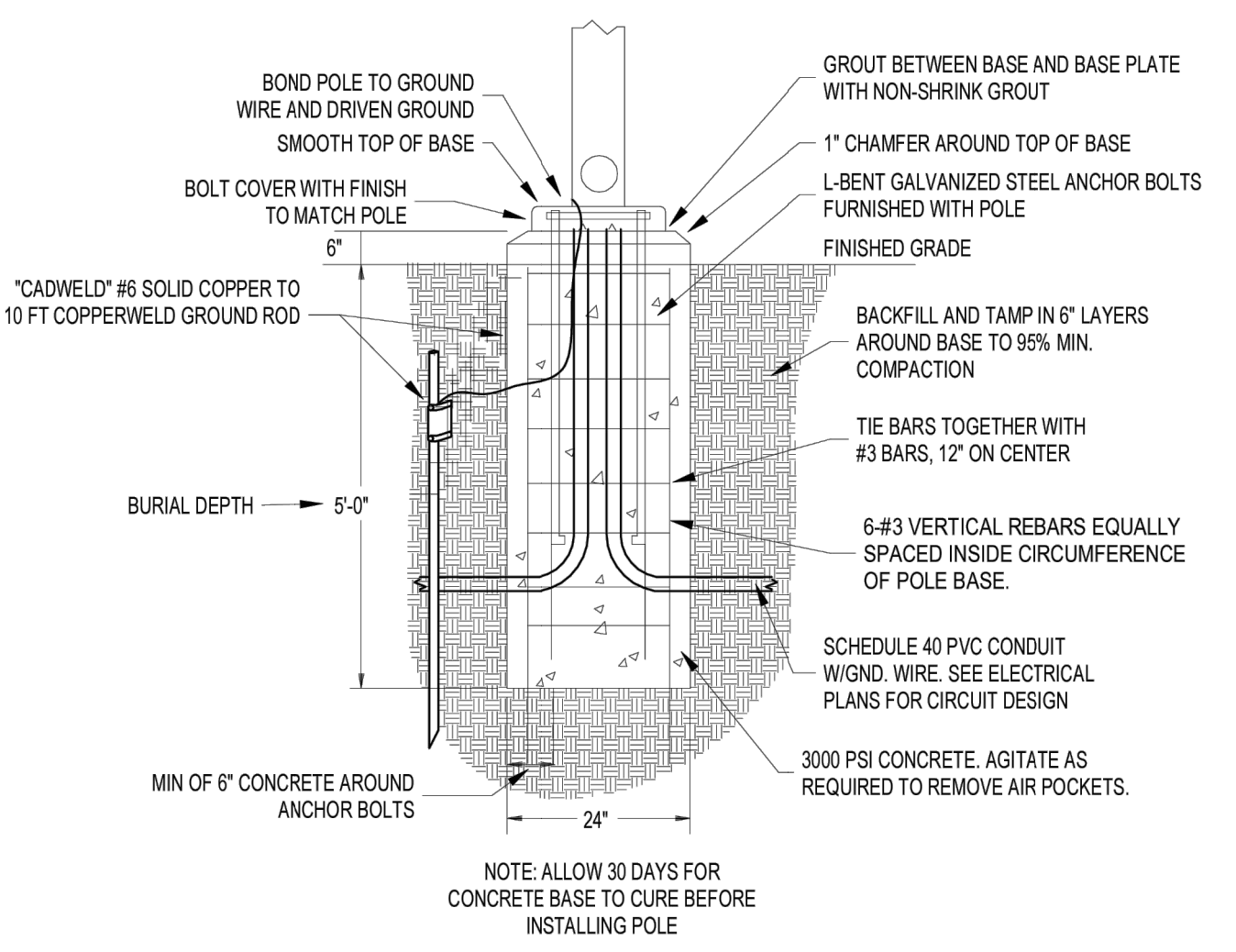
**Product Certifications:** ETL, UL, IES, etc.

**Quick Facts:**  
• Lumen packages range from 4,200 - 80,800 (34W - 640W)  
• Efficiency up to 156 lumens per watt

**Connected Systems:**  
• WavetLinx  
• Enlighted

- NOTE:**
- BUILDING LIGHTING SHALL BE PROVIDED TO ILLUMINATE ENTRANCES AND EXITS TO MEET IES STANDARDS AS PART OF THE BUILDING ELECTRICAL DESIGN AND IS NOT INCLUDED IN THE SCOPE OF THIS SITE LIGHTING LAYOUT.
  - ALL SITE LIGHTING SHALL BE SHIELDED FROM ADJACENT PUBLIC STREETS USING HOUSE SIDE SHIELDS IF GREATER THAN 2.0 FC AT PROPERTY LINE.
  - THE INTENT OF THIS DRAWING IS TO SHOW FOOTCANDLE LEVELS BASED ON FIXTURES SHOWN. ACTUAL LEVELS MAY VARY BASED ON ACTUAL FIXTURE INSTALLED.
  - THIS DRAWING IS INTENDED FOR PRELIMINARY SITE PLAN APPROVAL OF DESIGNED LIGHTING LEVELS AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.

**ELECTRICAL CONNECTION NOTE:**  
THIS IS A SITE LIGHTING CALCULATION PLAN ONLY AND DOES NOT PROVIDE ELECTRICAL CONNECTIONS FOR FIXTURES SHOWN. SITE DEVELOPERS (OWNERS, BUILDERS AND GENERAL CONTRACTORS) ARE RESPONSIBLE FOR COORDINATING WITH BUILDING ELECTRICAL CONTRACTOR OR POWER COMPANY FOR POWER CONNECTIONS FOR ALL FIXTURES.



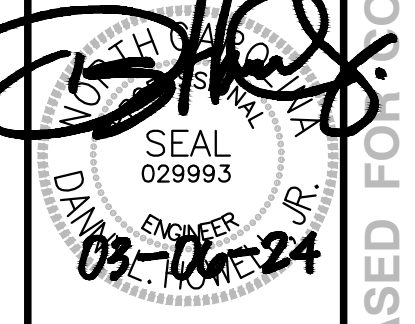
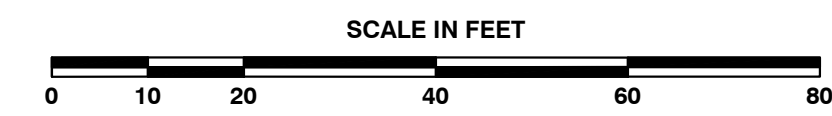
**LEGEND**

- 20' DRAINAGE EASEMENT
- PRIVATE SCM ACCESS & MAINTENANCE EASEMENT
- CITY OF RALEIGH WATERLINE EASEMENT (1' EA. SIDE OF METER BOX, TYP.)
- TEMP. CROSS-ACCESS EASEMENT
- 10' TEMP. CONSTRUCTION EASEMENT (TYP. EA. SIDE OF TEMP. CROSS-ACCESS EASEMENT)

NO WETLANDS EXIST ON-SITE

NO FLOODPLAINS EXIST ON-SITE

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT



SHEET  
**SL-1.01**

**G&G BUILDERS, INC.**

**TJ ARCHITECTURE**

**REAL ENGINEERING**

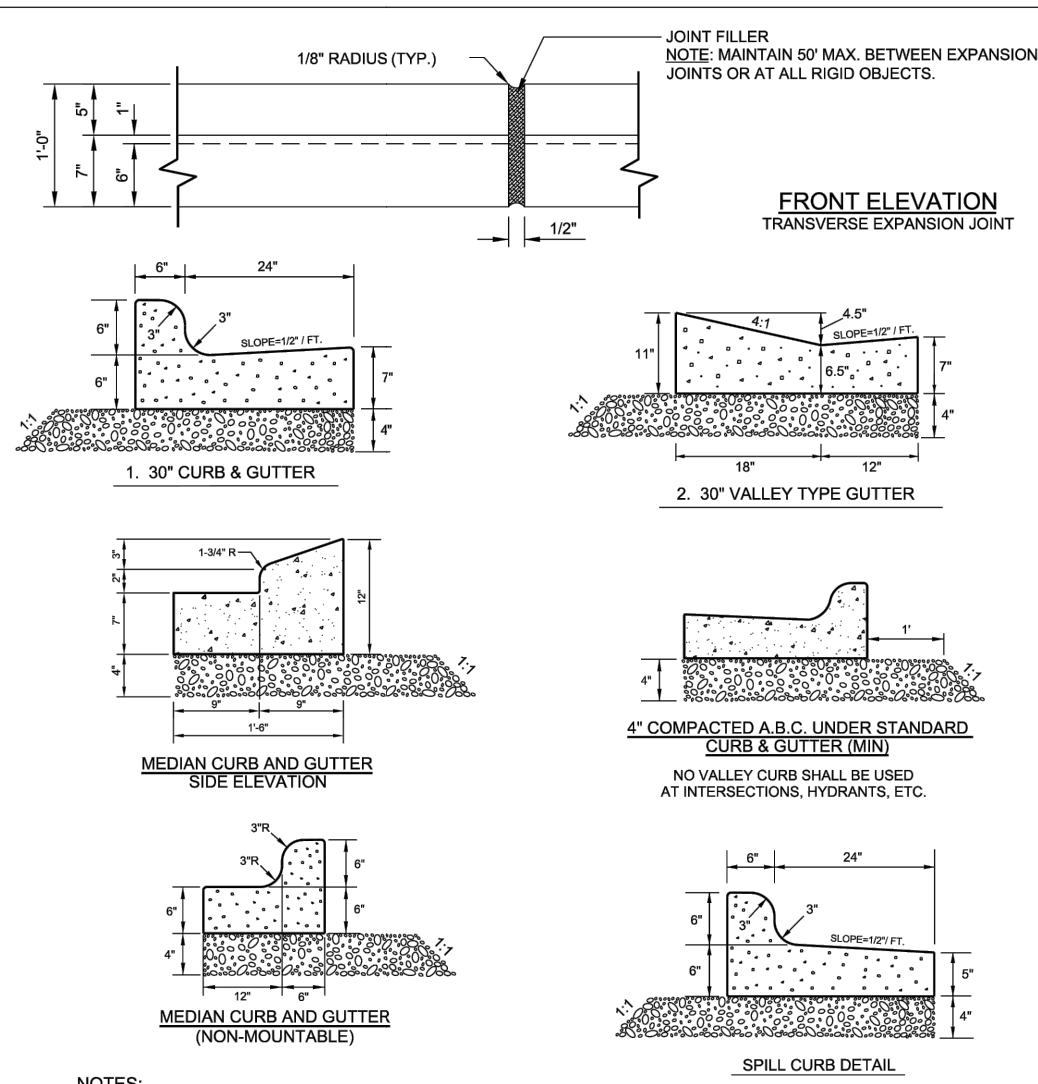
6109 WILKINSBURG ROAD  
RALEIGH, NC 27612  
(919) 539-7340  
NCBELS FIRM NO: C-4406

JOB NO: 21027 DATE: 10-03-22  
**SITE LIGHTING PLAN**  
SCALE: 1" = 20'

**NorthWake Eye Care**  
A MEMBER OF *WISCONSIN SOURCE*

**971 GRANITE FALLS BOULEVARD**  
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

NO.	DATE	DESCRIPTION
7	03-06-24	PER WAKE CO COMMENTS
6	01-25-24	PER WAKE CO COMMENTS
5	11-01-23	PER NCDOT COMMENTS
4	10-17-23	PER WAKE CO NCDOT
3	08-09-23	WAKE CO EC SUBMITTAL
2	06-02-23	PER TOR COMMENTS
1	04-03-23	PER TOR COMMENTS



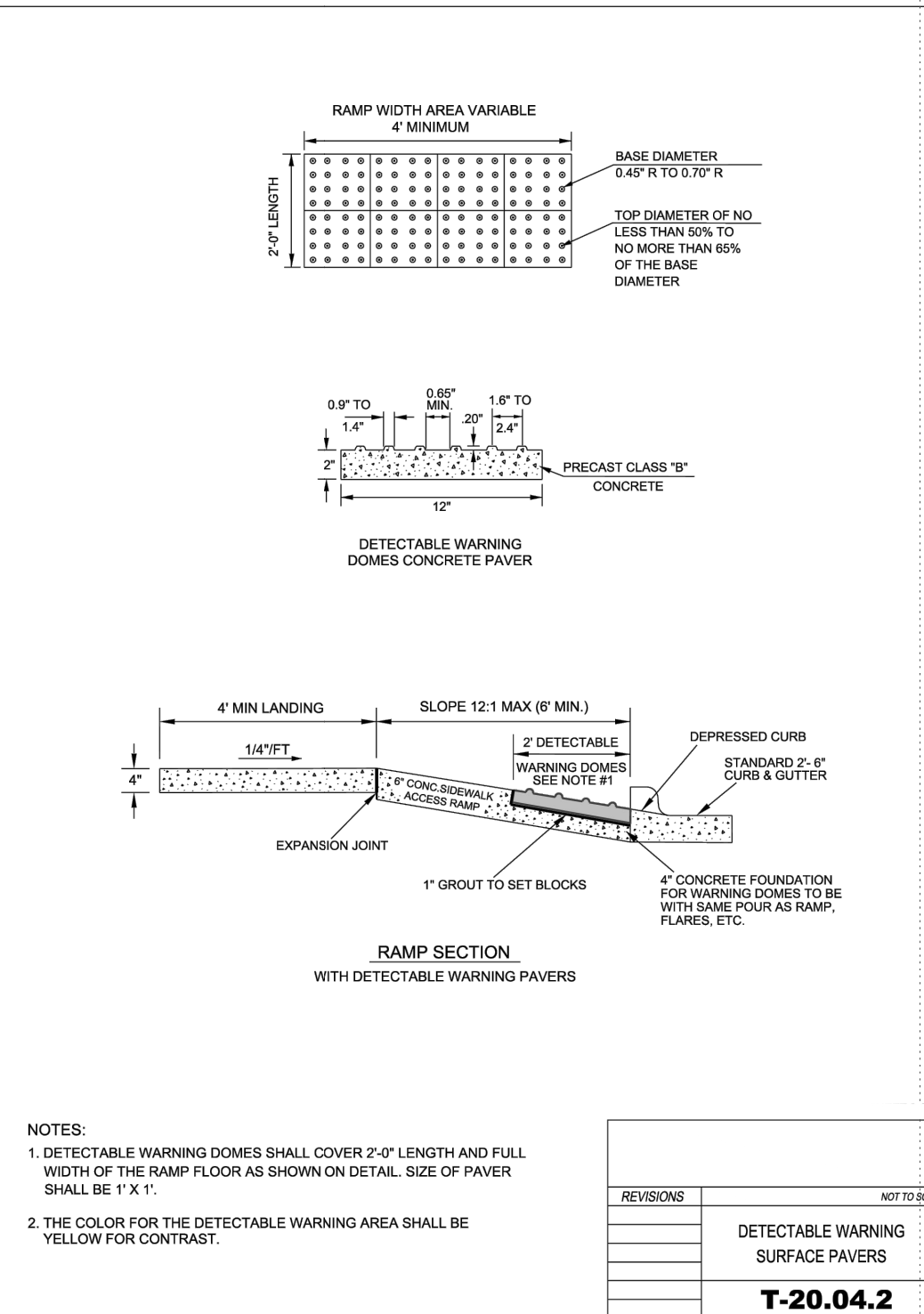
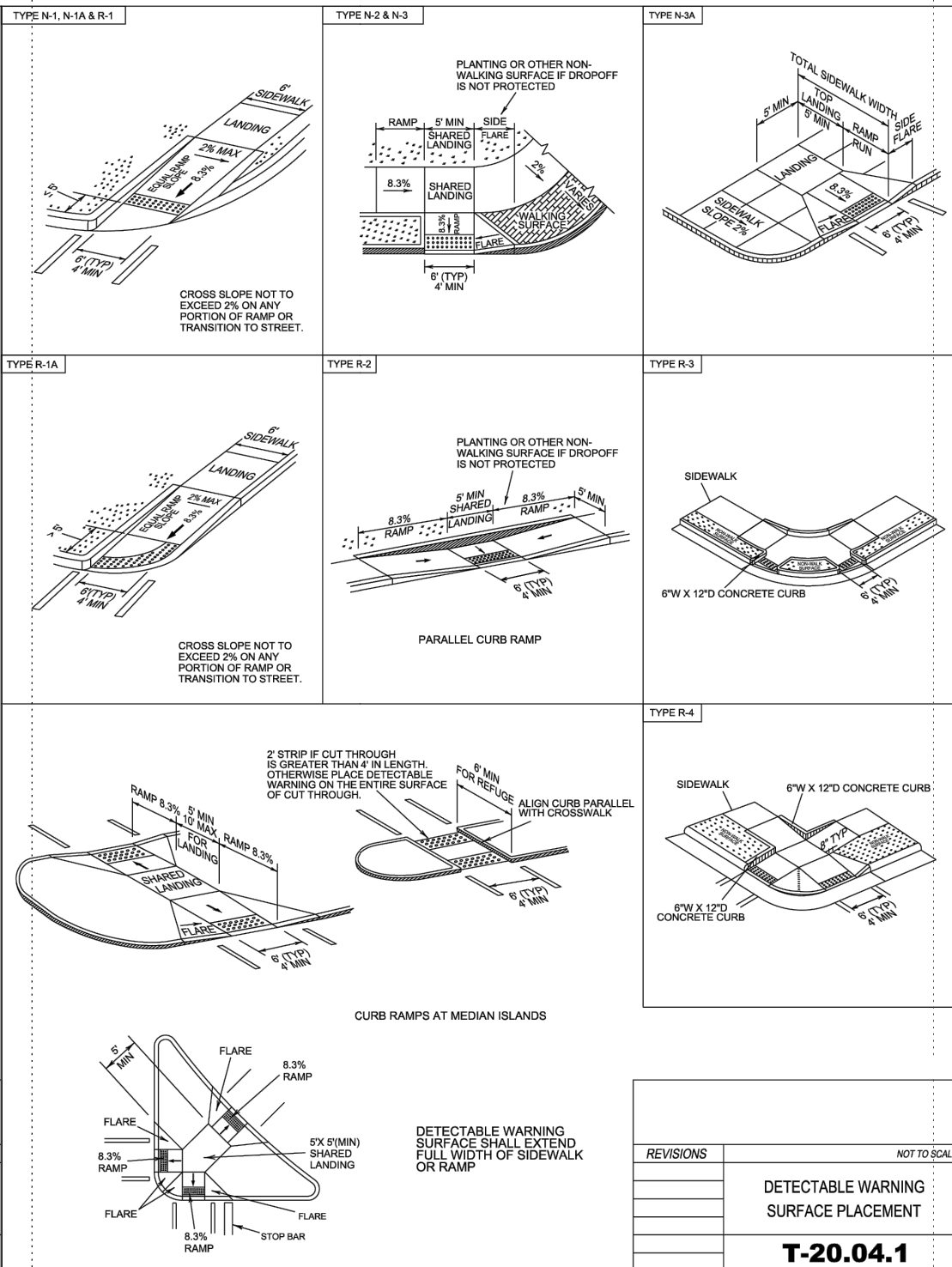
- NOTES:**
- 10" MAXIMUM BETWEEN DUMMY JOINTS
  - 10" MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS
  - 10" EXPANSION JOINT EVERY 50'
  - 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM
  - LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 108.01 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS AND STRUCTURES
  - ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL MESH. THE JOINT MATERIAL SHALL CONFORM TO SECTION 108.01 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS AND STRUCTURES.
  - REFER TO NCDOT DETAIL M46.01 FOR CURB AND GUTTER SUPERELEVATION NOTES.

REVISIONS	NOT TO SCALE

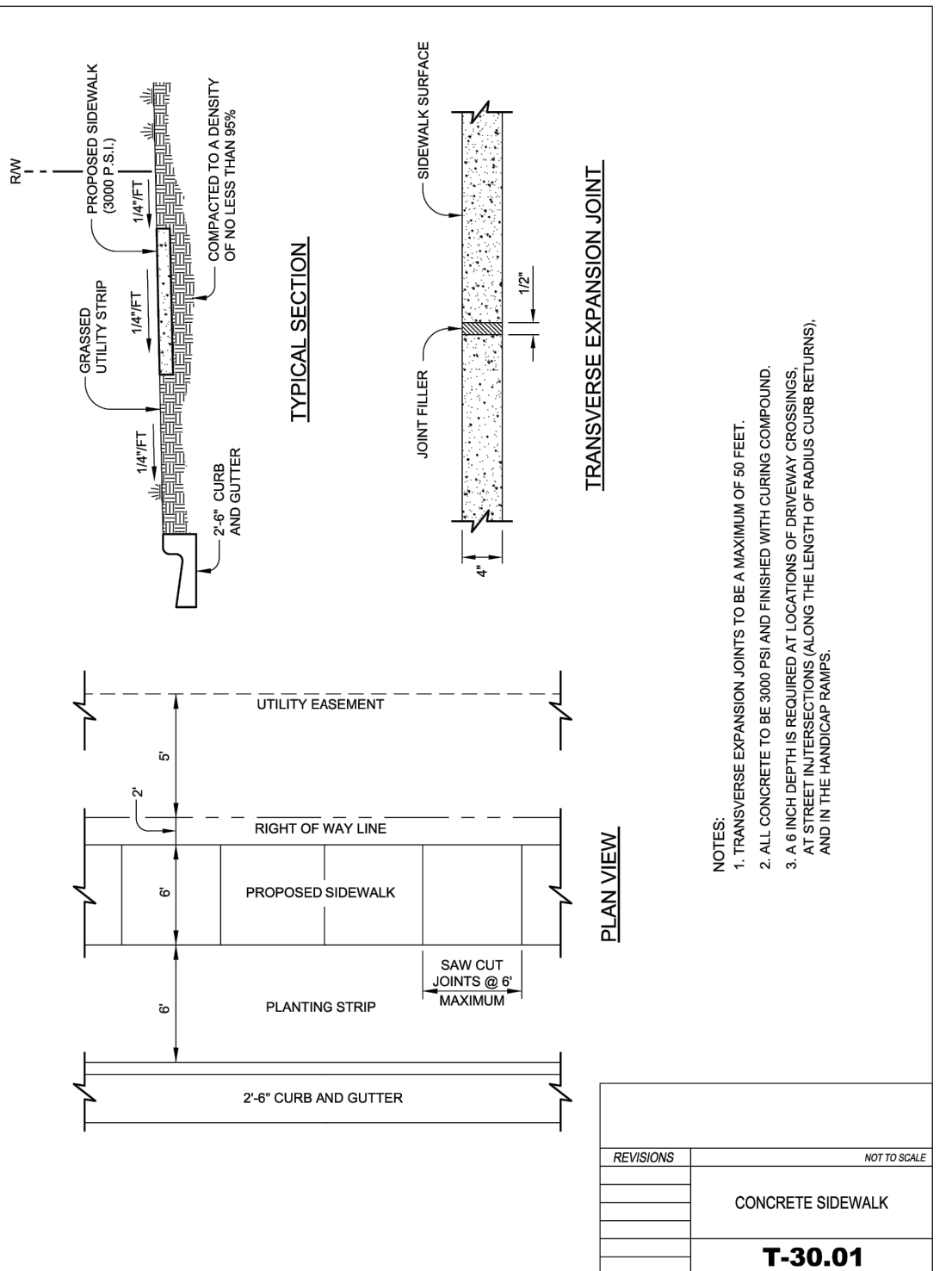
**T-10.26.1**  
CURB AND GUTTER

**CITY OF RALEIGH CURB RAMPS GENERAL NOTES**

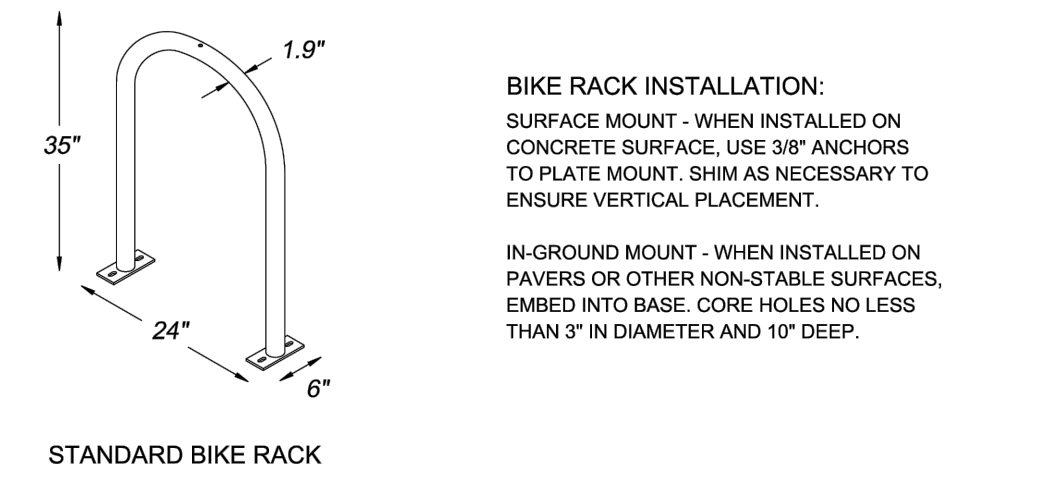
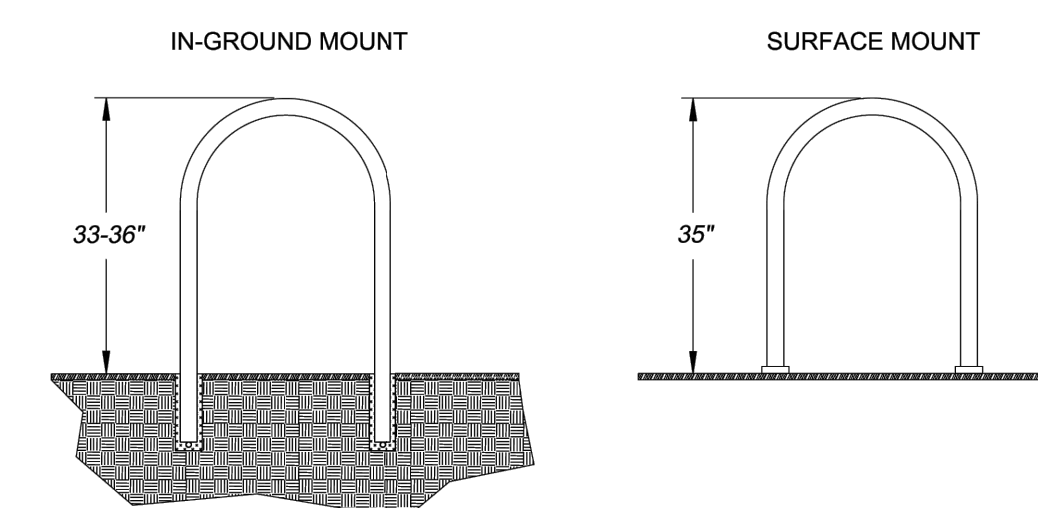
- CITY OF RALEIGH STANDARD CURB RAMPS HAVE BEEN DEVELOPED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND PUBLIC RIGHT OF WAY ACCESS GUIDELINES (PROWAG).
- CURB RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SIDEWALK ACCESS RAMPS SHALL BE LOCATED AS INDICATED IN THE DETAIL, HOWEVER, THE LOCATION MAY BE ADJUSTED IN COORDINATION WITH THE CITY OF RALEIGH WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT.
- DOUBLE WHEELCHAIR RAMPS ARE TO BE INSTALLED AT ALL PUBLIC STREET INTERSECTIONS WHERE SIDEWALK IS REQUIRED.
- THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.
- NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 11°/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
- IN NO CASE SHALL THE WIDTH OF THE SIDEWALK ACCESS RAMP BE LESS THAN 48" ALL RAMPS SHALL BE INSTALLED THE SAME WIDTH AS THE SIDEWALK.
- USE CLASS A (3000 PSI) CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NONSKID SURFACE.
- A 1/2" EXPANSION JOINT INSTALLED FULL DEPTH WILL BE REQUIRED WHERE THE CONCRETE SIDEWALK ACCESS RAMP JOINS THE CURB AND ALSO WHERE NEW CONCRETE ABUTS EXISTING CONCRETE.
- CURB RAMPS SHOULD BE PLACED PARALLEL TO THE DIRECTION OF TRAVEL.



- NOTES:**
- DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAIL. SIZE OF PAVEMENT SHALL BE 1' x 1'.
  - THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.



- NOTES:**
- TRANSVERSE EXPANSION JOINTS TO BE A MAXIMUM OF 50 FEET.
  - ALL CONCRETE TO BE 3000 PSI AND FINISHED WITH CURING COMPOUND.
  - A 1/2" DEPTH IS REQUIRED AT LOCATIONS OF DRIVEWAY CROSSINGS, AND IN THE HANDICAP RAMPS.



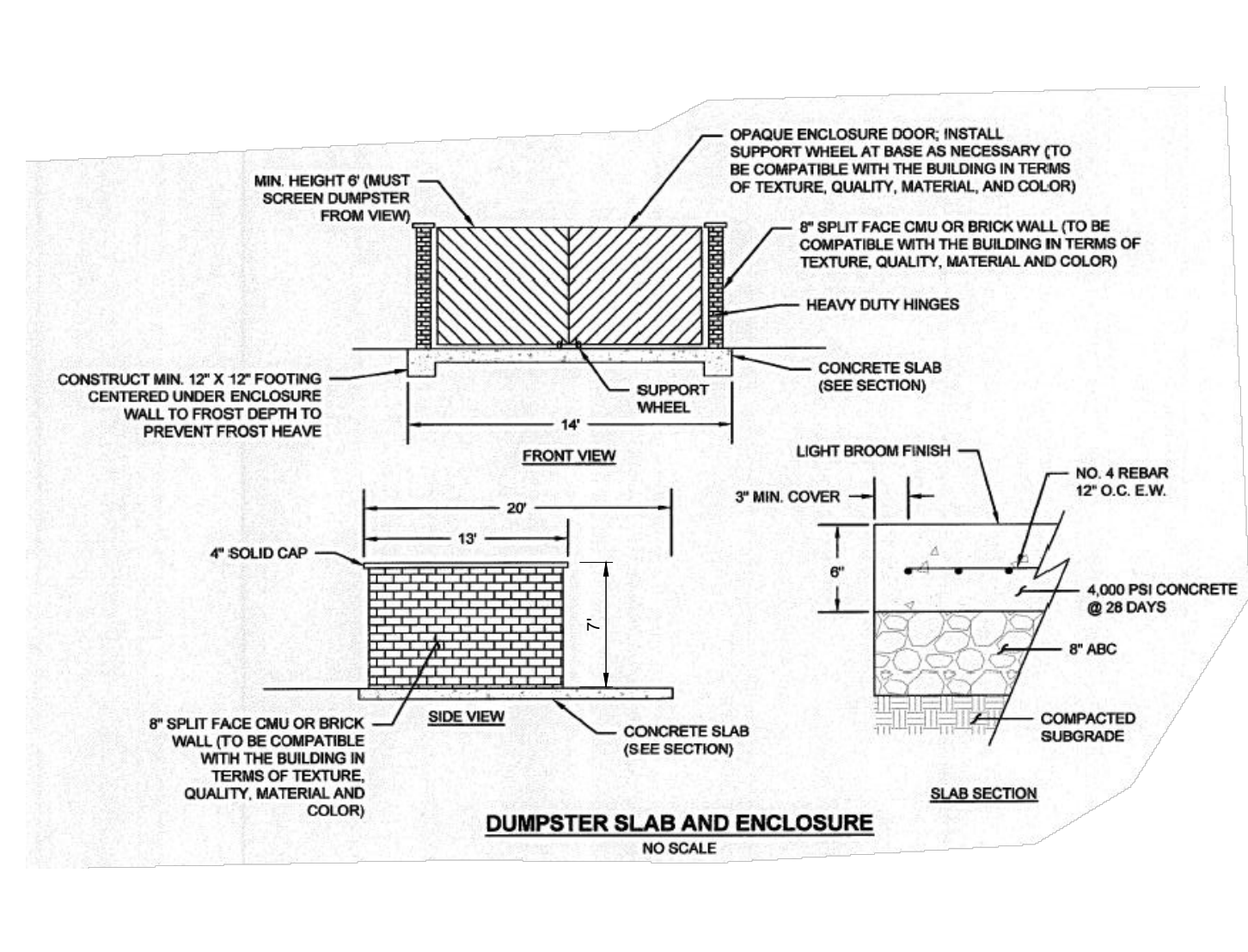
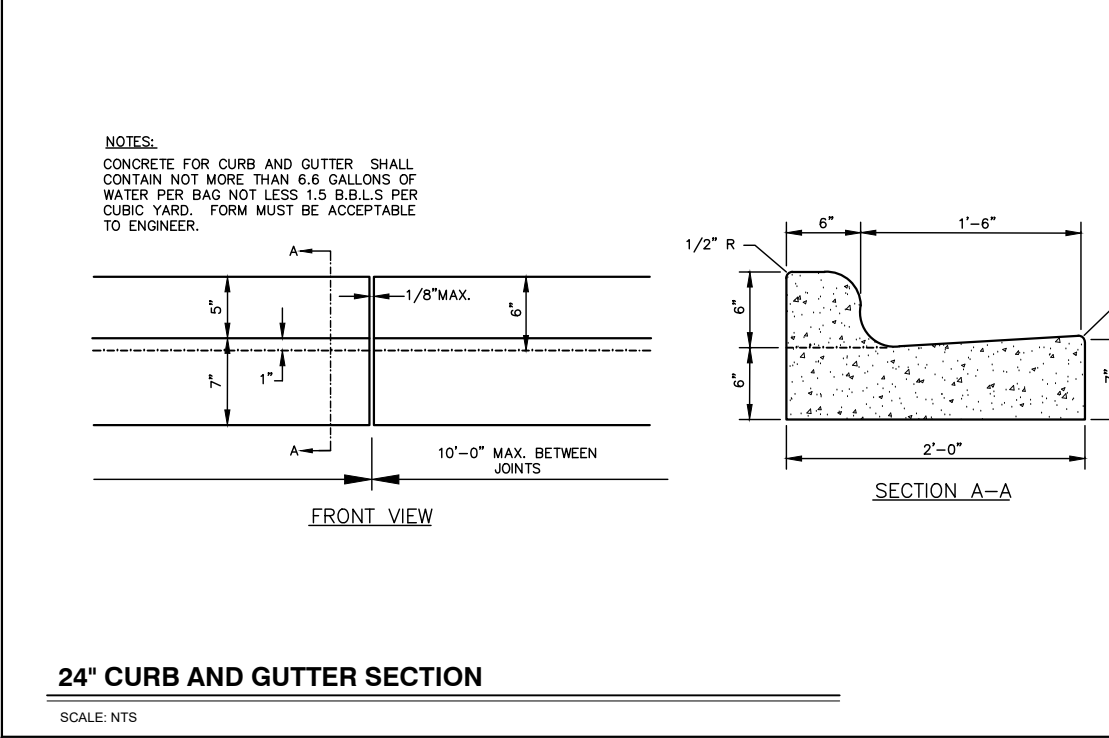
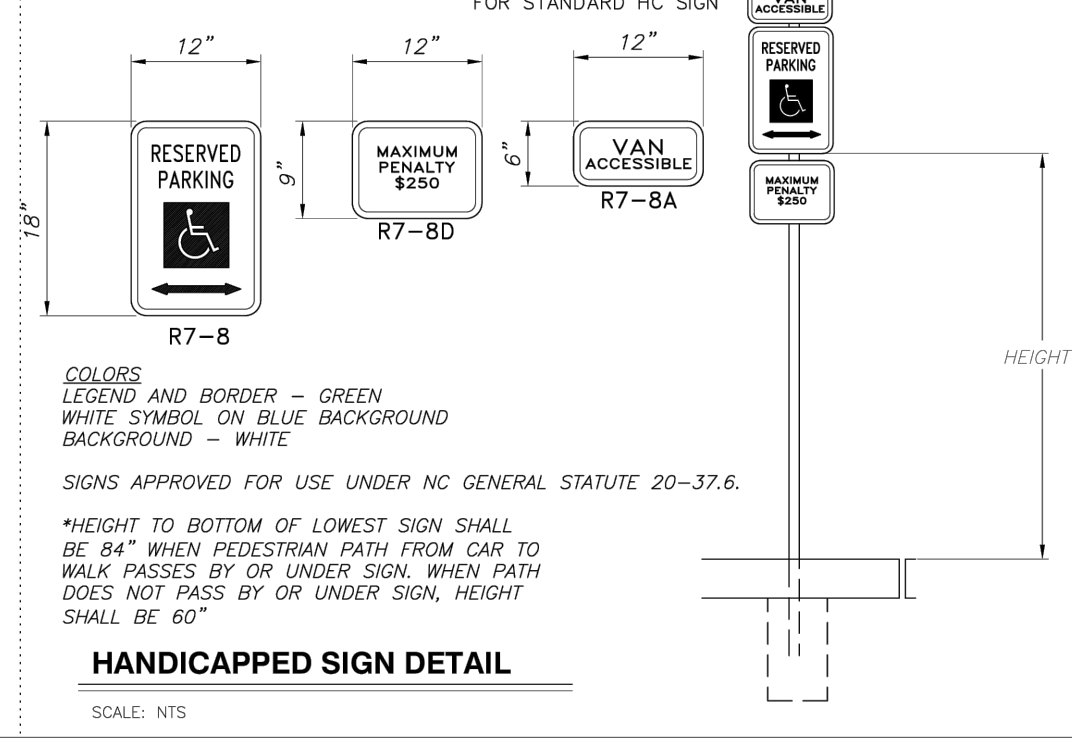
**BIKE RACK INSTALLATION:**

**SURFACE MOUNT -** WHEN INSTALLED ON CONCRETE SURFACE, USE 3/8" ANCHORS TO PLATE MOUNT. SHIM AS NECESSARY TO ENSURE VERTICAL PLACEMENT.

**IN-GROUND MOUNT -** WHEN INSTALLED ON PAVERS OR OTHER NON-STABLE SURFACES, EMBED INTO BASE. CORE HOLES NO LESS THAN 3" IN DIAMETER AND 10" DEEP.

REVISIONS	NOT TO SCALE

**B-20.03**  
BIKE RACK DETAILS



**G&G BUILDERS, INC.**

**REAL ENGINEERING**

6109 WILKINSBURG ROAD  
RALEIGH, NC 27612  
(919) 539-7340  
NCBELS FIRM NO: C-4406

**JOHN JOHNSON ARCHITECTURE**

**SITE DETAILS**

DATE: 10-03-22

**NorthWake Eye Care**  
A MEMBER OF *WakeSource*

971 GRANITE FALLS BOULEVARD  
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

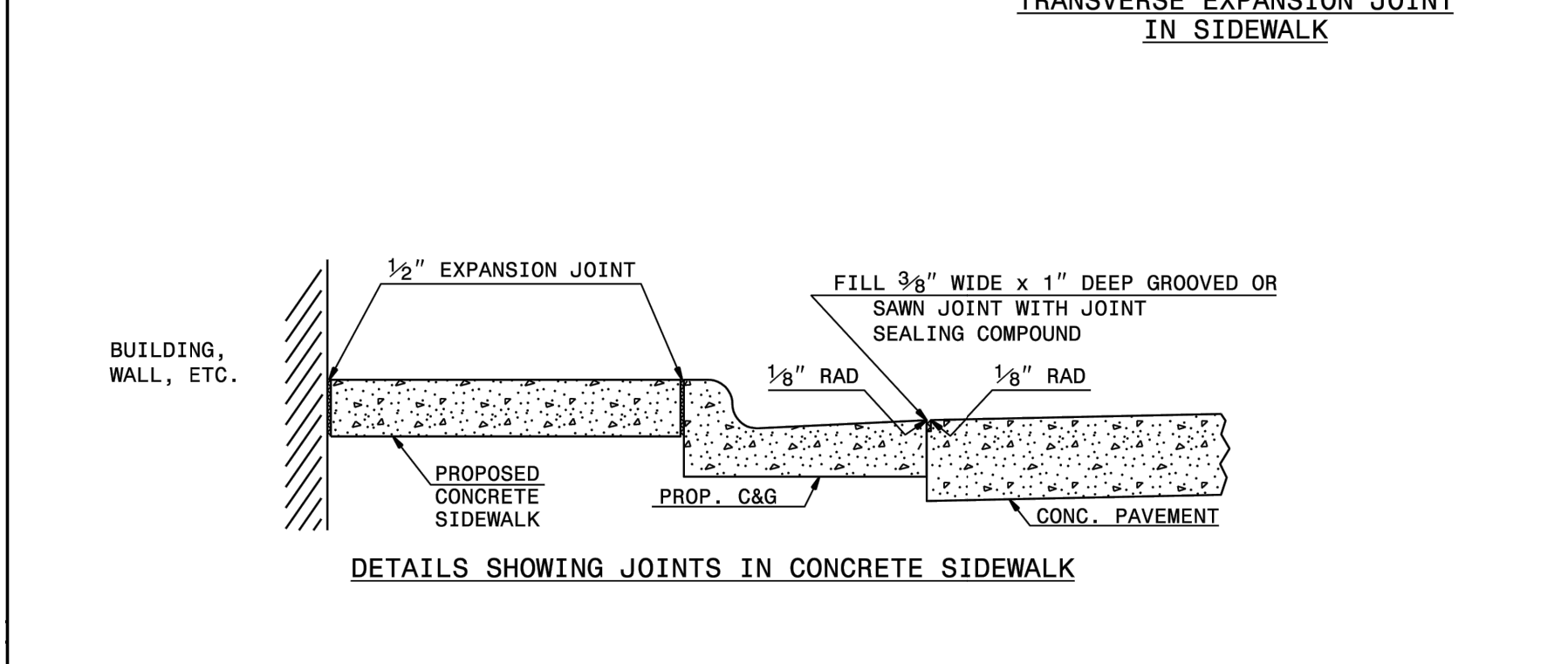
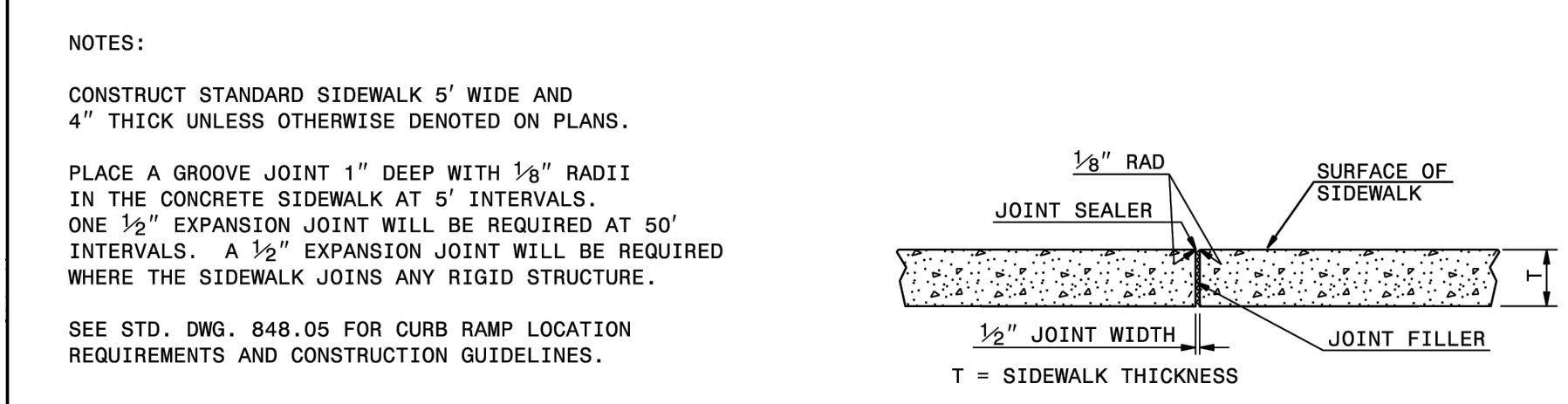
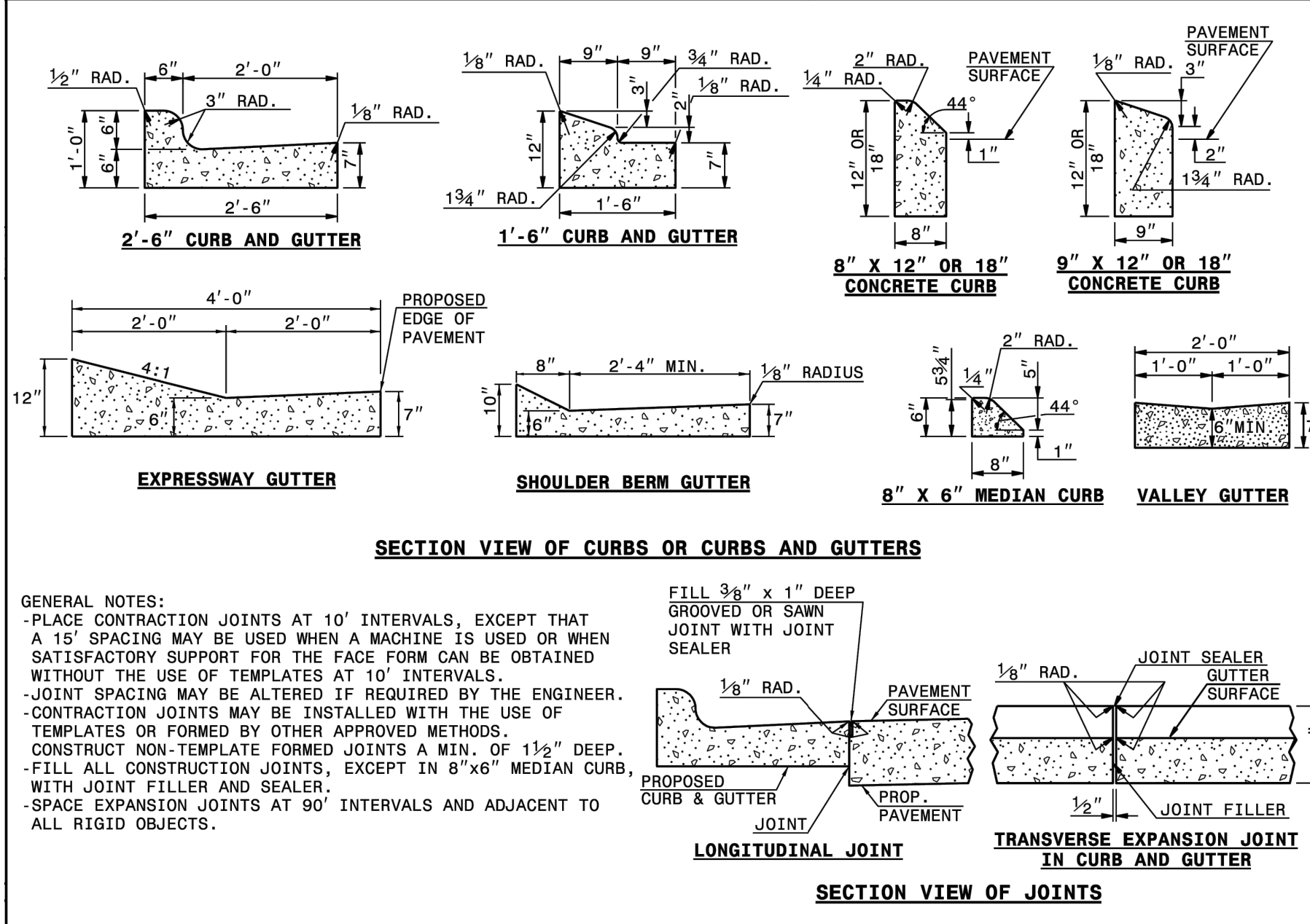
NO.	DATE	DESCRIPTION
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2	06-02-23	PER TOR COMMENTS
1	04-03-23	PER TOR COMMENTS

**SEAL**  
029993

**DATE**  
03-06-24

**SHEET**  
**C5.1**

**NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT**



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

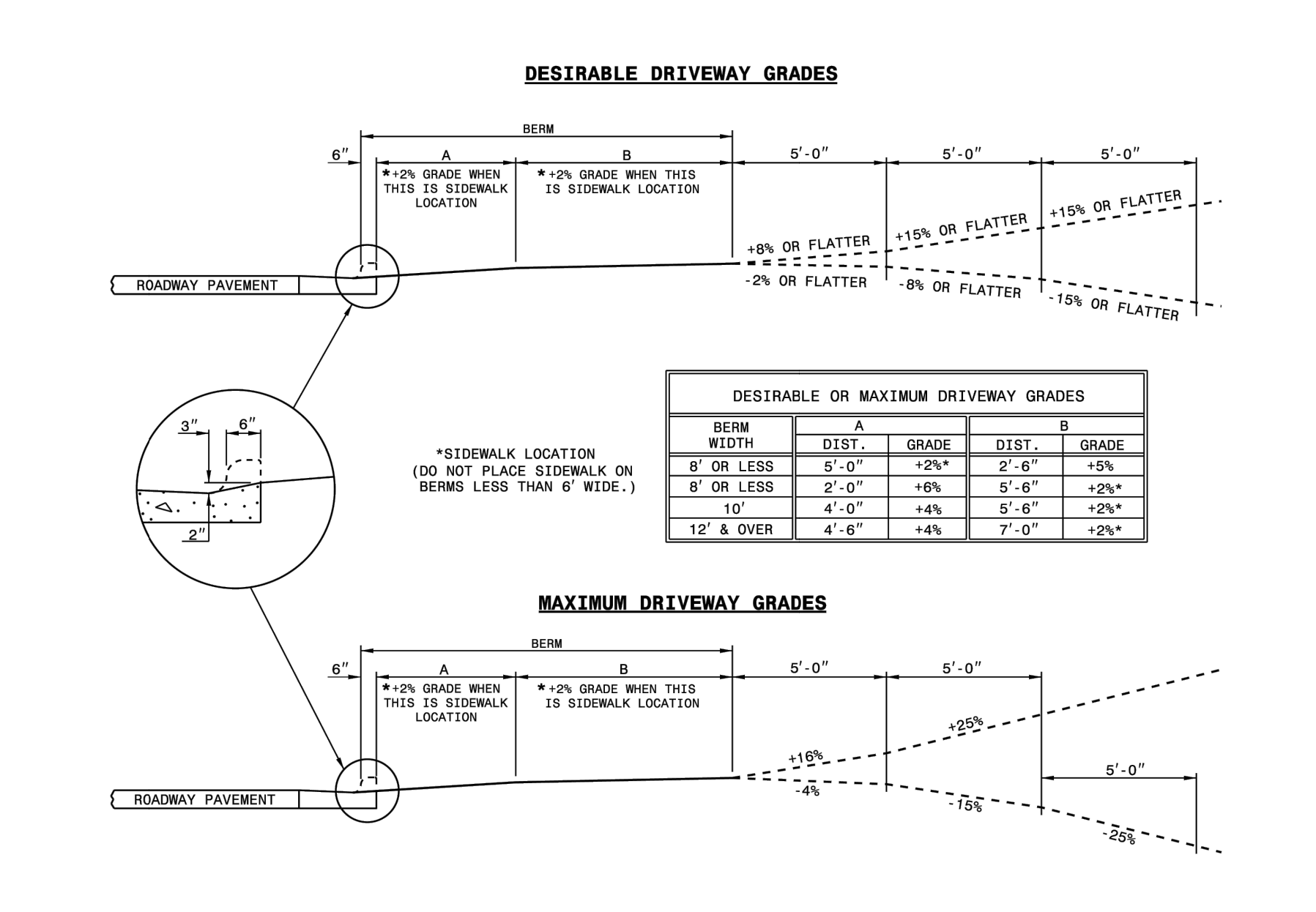
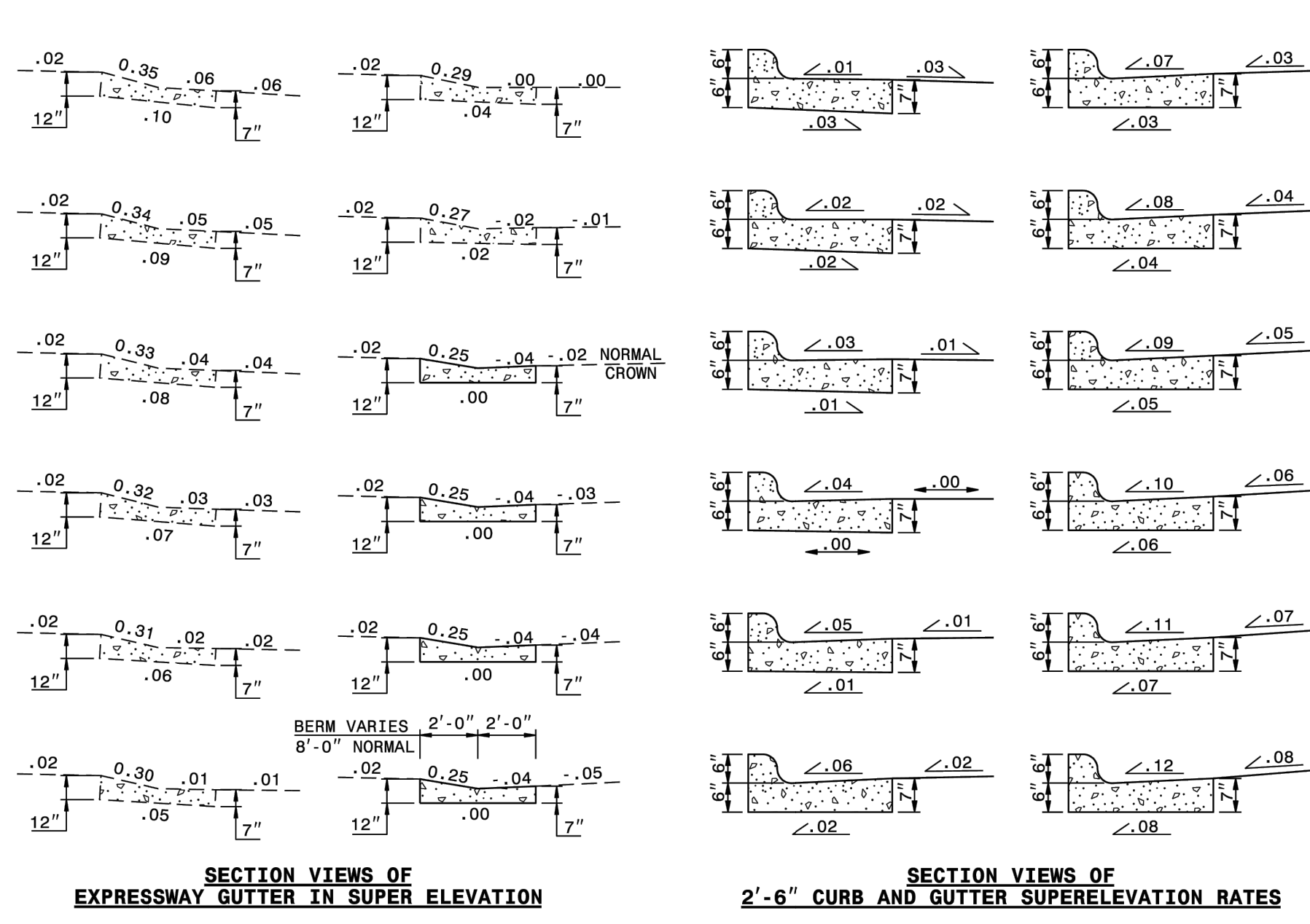
ROADWAY STANDARD DRAWING FOR  
**CONCRETE CURB, GUTTER  
AND CURB & GUTTER**

SHEET 1 OF 3  
**846.01**

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

ROADWAY STANDARD DRAWING FOR  
**CONCRETE SIDEWALK**

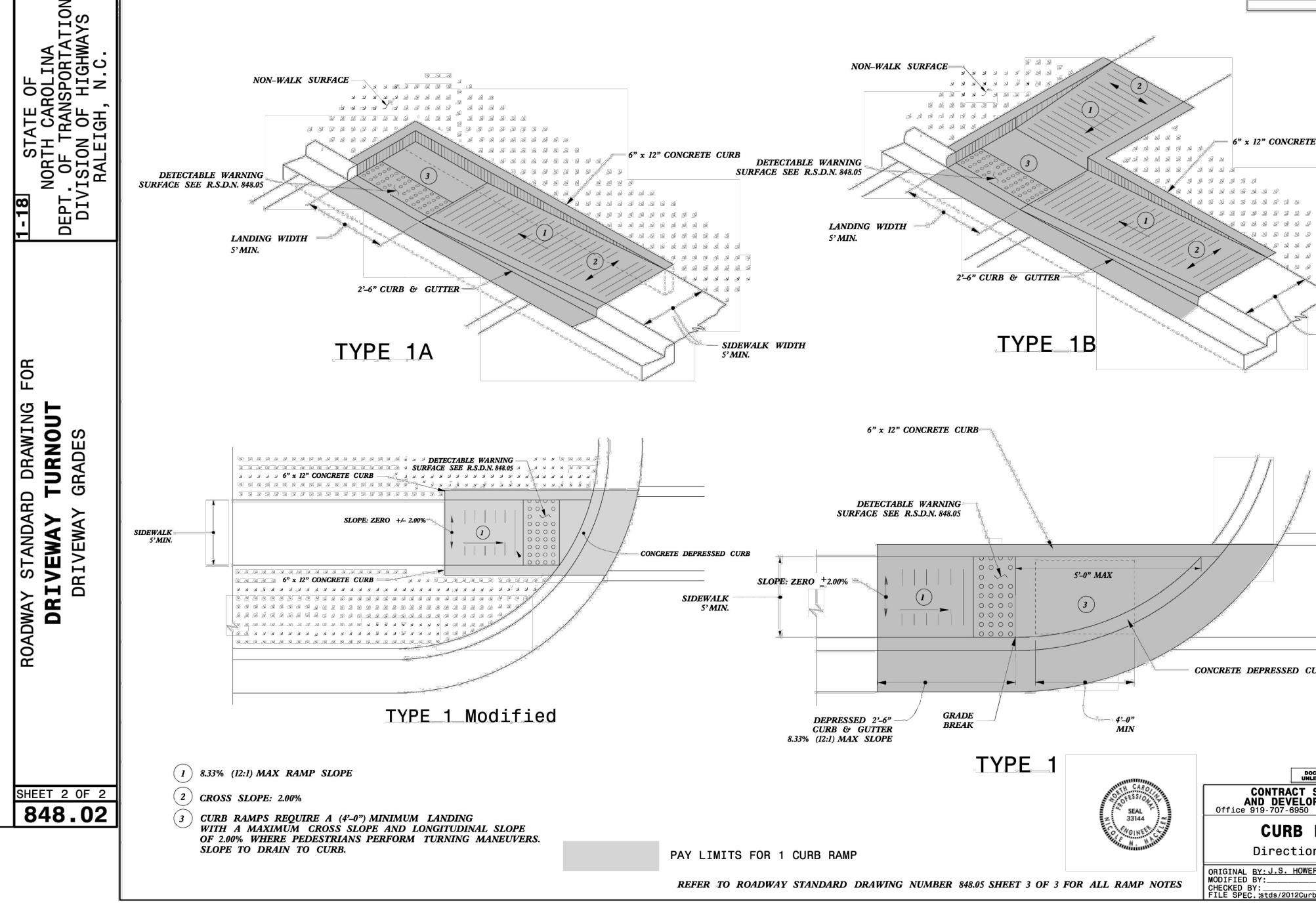
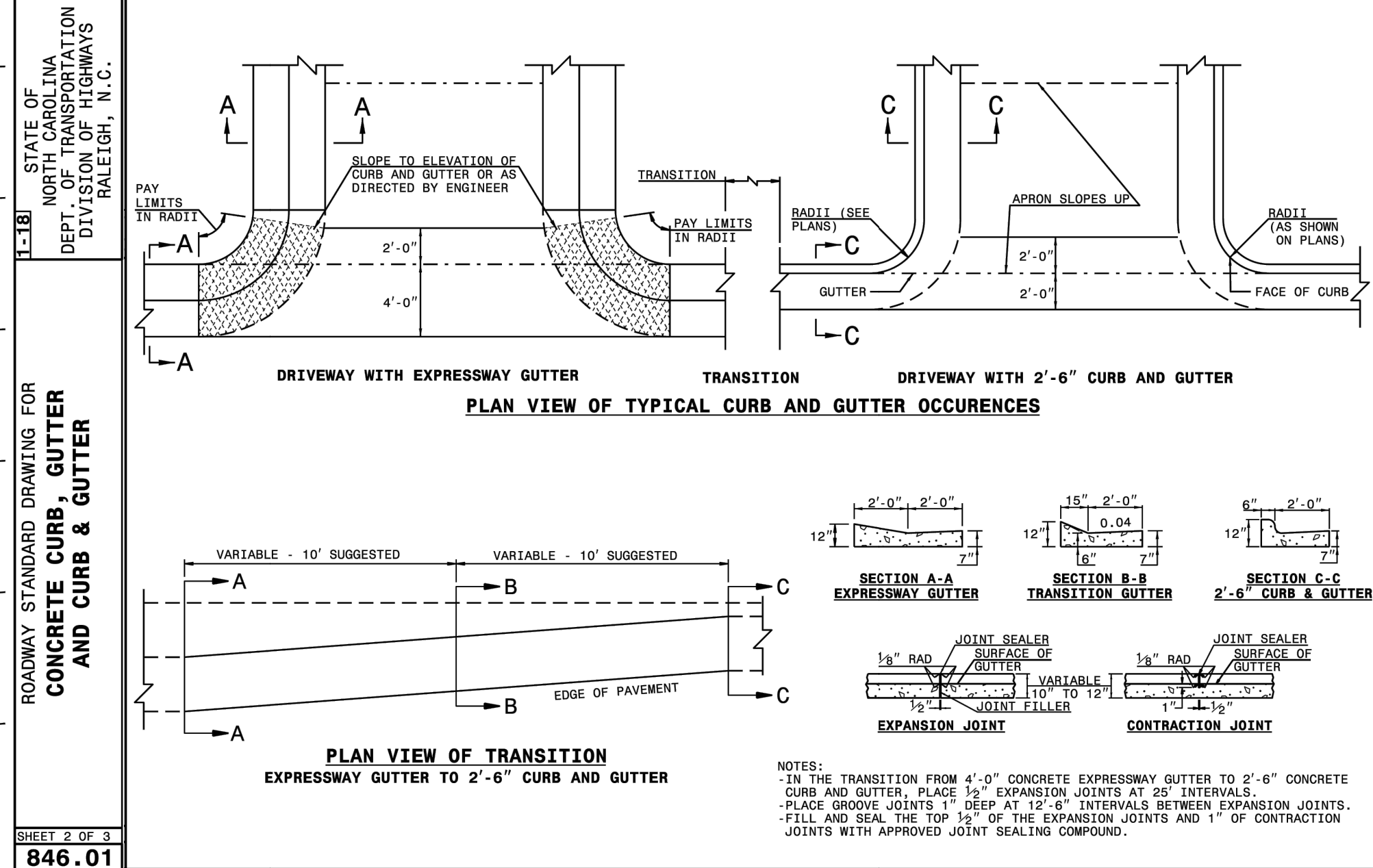
SHEET 2 OF 2  
**848.01**



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

ROADWAY STANDARD DRAWING FOR  
**DRIVEWAY TURNOUT**

SHEET 2 OF 2  
**848.02**



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

ROADWAY STANDARD DRAWING FOR  
**CONCRETE CURB, GUTTER  
AND CURB & GUTTER**

SHEET 3 OF 3  
**846.01**

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

ROADWAY STANDARD DRAWING FOR  
**CONCRETE CURB, GUTTER  
AND CURB & GUTTER**

SHEET 3 OF 3  
**846.01**



6109 WILKINSBURG ROAD  
RALEIGH, NC 27612  
(919) 539-7340  
NCBELS FIRM NO: C-4406

DATE: 10-03-22  
JOB NO: 21027  
NCDOT  
DETAILS  
SCALE: N.T.S.

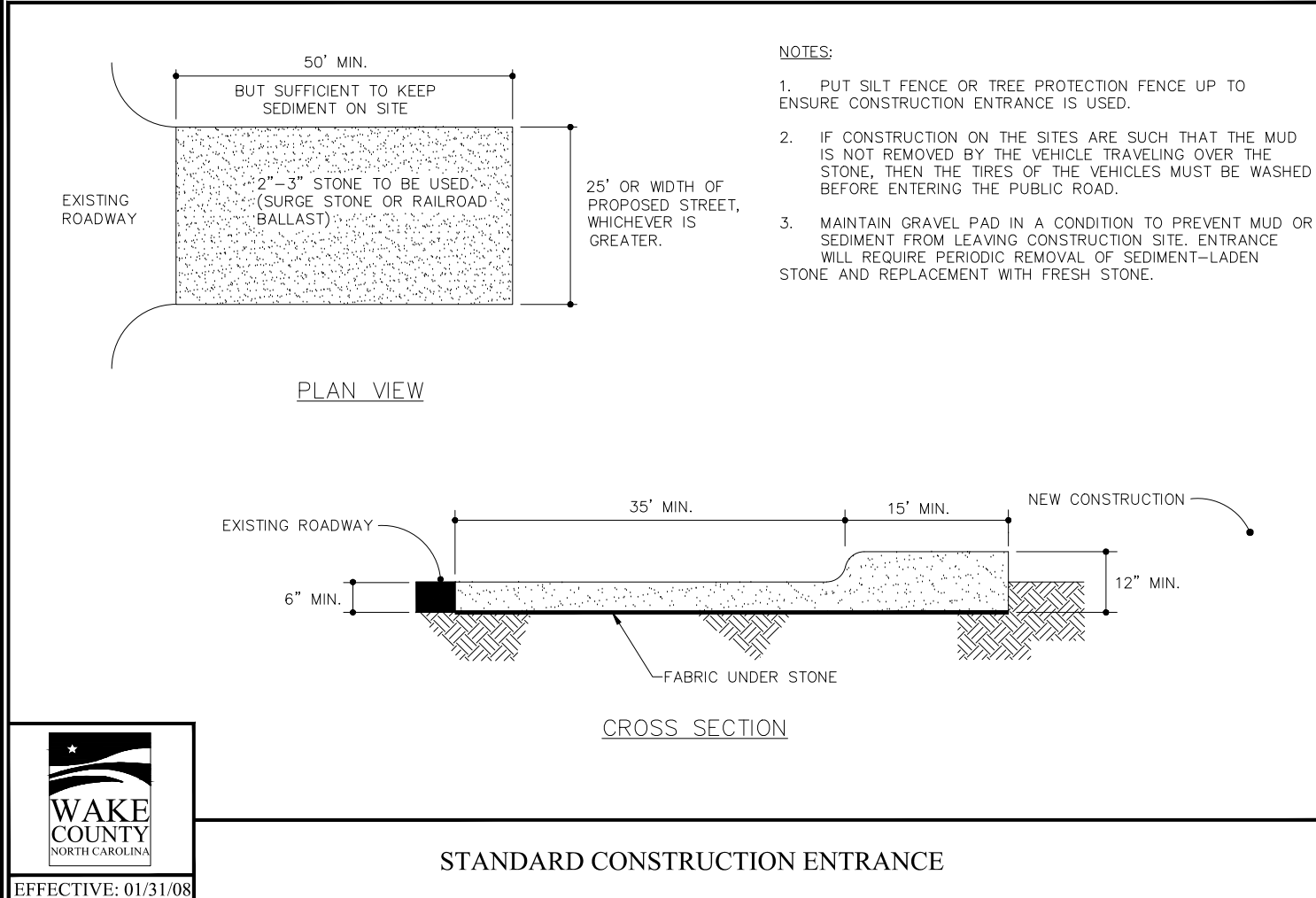
NorthWake Eye Care  
A MEMBER OF WakeSource  
971 GRANITE FALLS BOULEVARD  
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

NO.	DATE	DESCRIPTION
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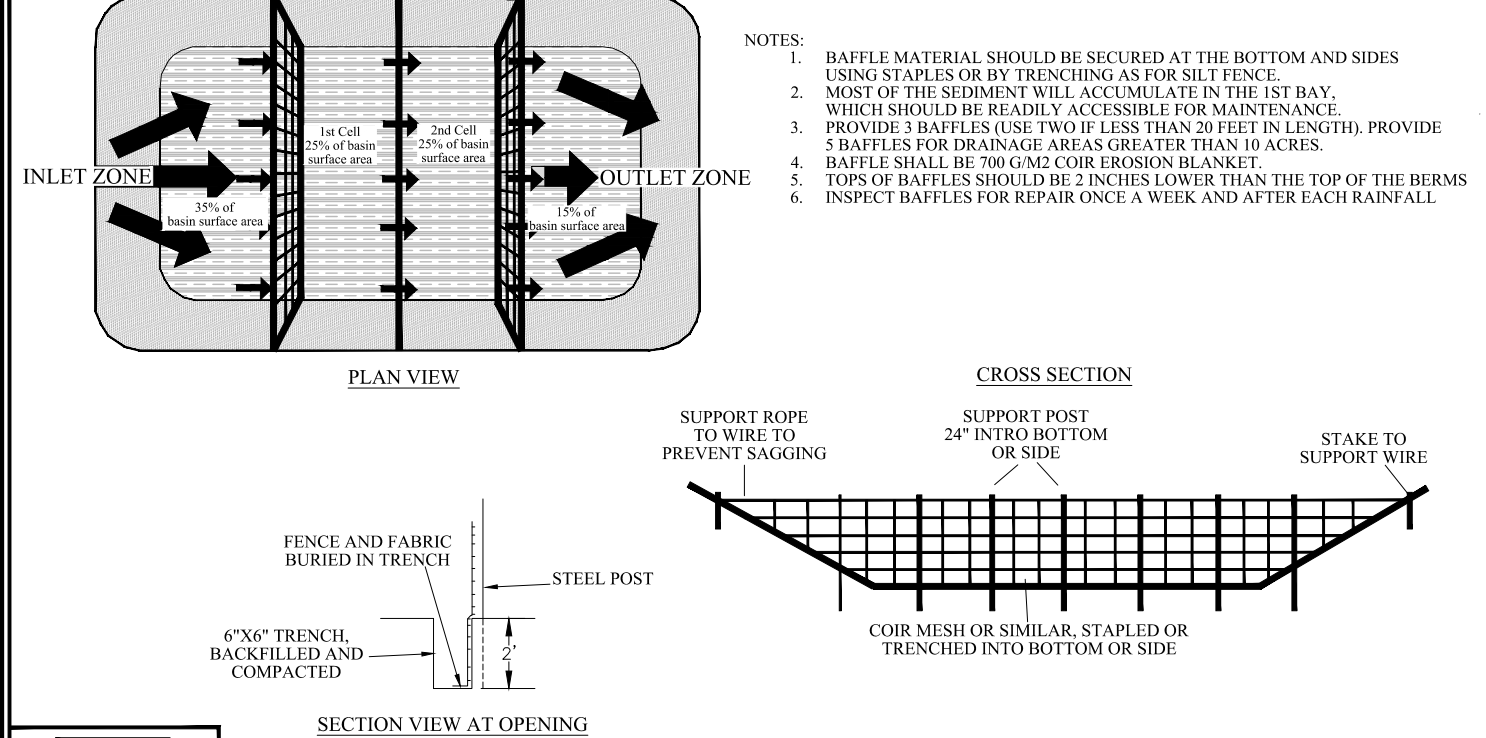
SHEET  
**C5.2**

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT





### STANDARD CONSTRUCTION ENTRANCE



### STANDARD BAFFLES DETAIL

#### Seedbed Preparation:

- Chisel compacted areas and spread topsoil three inches deep over adverse soil conditions, if available.
- Rip the entire area to six inches deep.
- Remove all loose rock, roots and other obstructions, leaving surface reasonably smooth and uniform.
- Apply agricultural lime, fertilizer and superphosphate uniformly and mix with soil (see mixture below).
- Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared four to six inches deep.
- Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding.
- Mulch immediately after seeding and anchor mulch.
- Inspect all seeded areas and make necessary repairs or reseedings within the planting season, if possible. If stand should be more than 60% damaged, re-establish following the original lime, fertilizer and seeding rates.
- Consult S&E Environmental Engineers on maintenance treatment and fertilization after permanent cover is established.

Mixture	Rate
Agricultural Limestone	2 tons/acre (3 tons/acre in clay soils)
Fertilizer	1,000 lbs/acre - 10-10-10
Superphosphate	500 lbs/acre - 20% analysis
Mulch	2 tons/acre - small grain straw
Anchor	Asphalt emulsion at 300 gals/acre

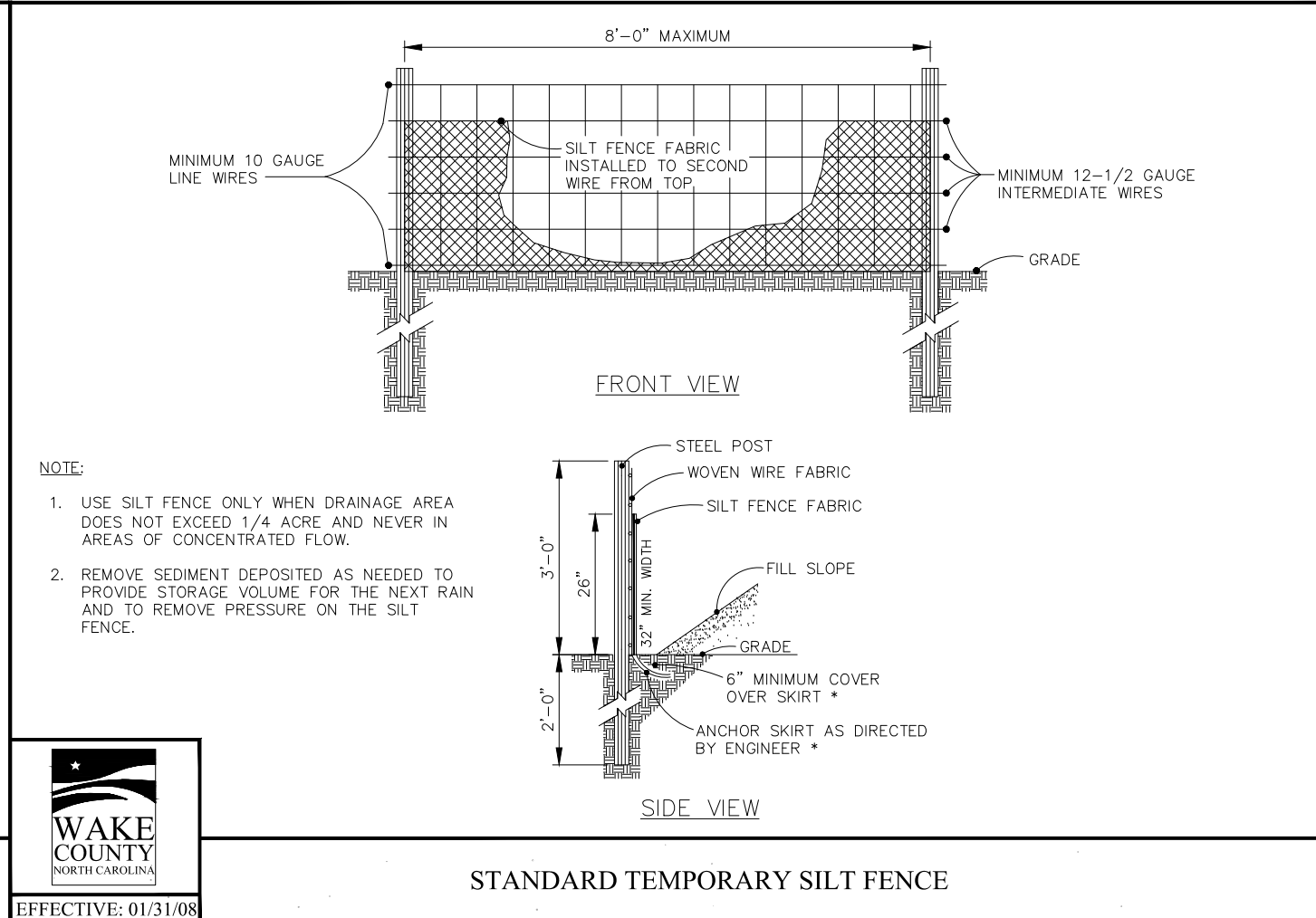
#### Seeding Schedule

Date	Type	Planting Rate
Aug 15 - Nov 1	Tall Fescue	300 lbs/acre
Nov 1 - Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre
Mar 1 - Apr 15	Tall Fescue	300 lbs/acre
Apr 15 - Jun 30	Hulled Common Bermudagrass	25 lbs/acre
Jul 1 - Aug 15	Tall Fescue AND Browntop Millet or Sorghum-Sudan Hybrids***	125 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids)

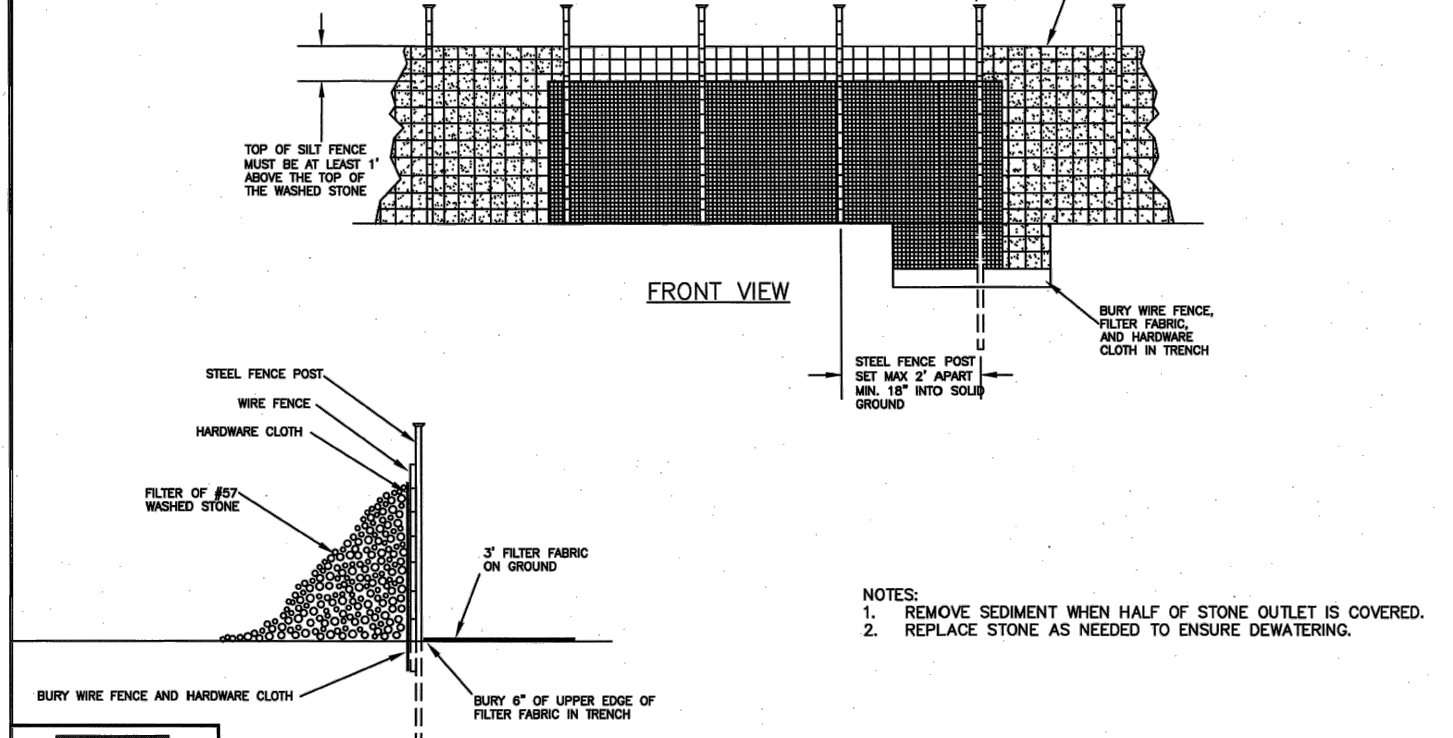
#### For Shoulders, Side Ditches, Slopes (3:1 to 2:1):

Date	Type	Planting Rate
Mar 1 - Jun 1	Sericea Lespedeza (scarified) and use the following combinations:	50 lbs/acre (Sericea Lespedeza)
Mar 1 - Apr 15	Add Tall Fescue	120 lbs/acre
Mar 1 - Jun 30	Or add Weeping Love grass	10 lbs/acre
Mar 1 - Jun 30	Or add Hulled Common Bermudagrass	25 lbs/acre
Jun 1 - Sept 1	Tall Fescue AND Browntop Millet or Sorghum-Sudan Hybrids***	120 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids)
Sept 1 - Mar 1	Sericea Lespedeza (unhulled - unscarified) AND Tall Fescue	70 lbs/acre (Sericea Lespedeza); 120 lbs/acre (Tall Fescue)
Nov 1 - Mar 1	AND Abruzzi Rye	25 lbs/acre

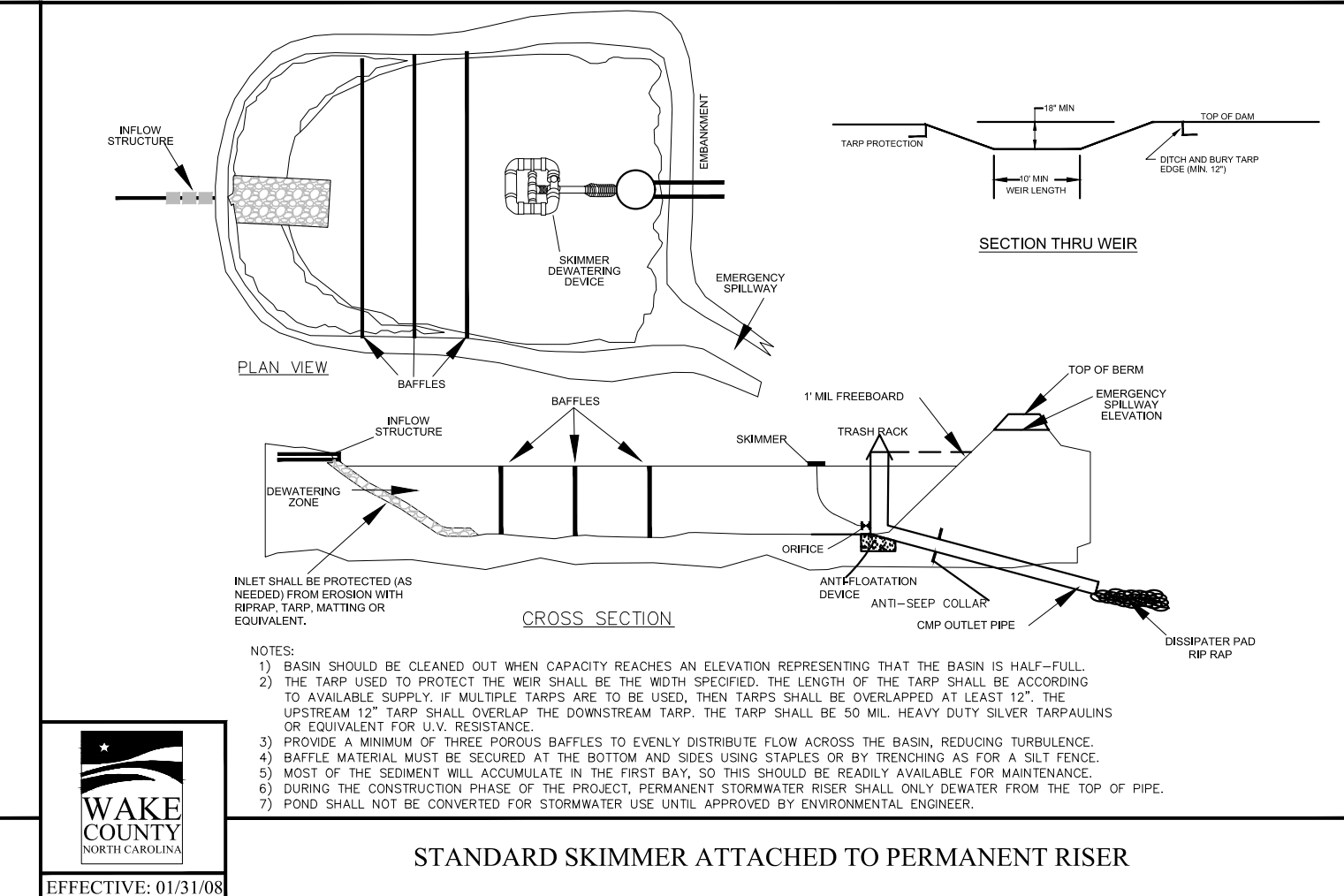
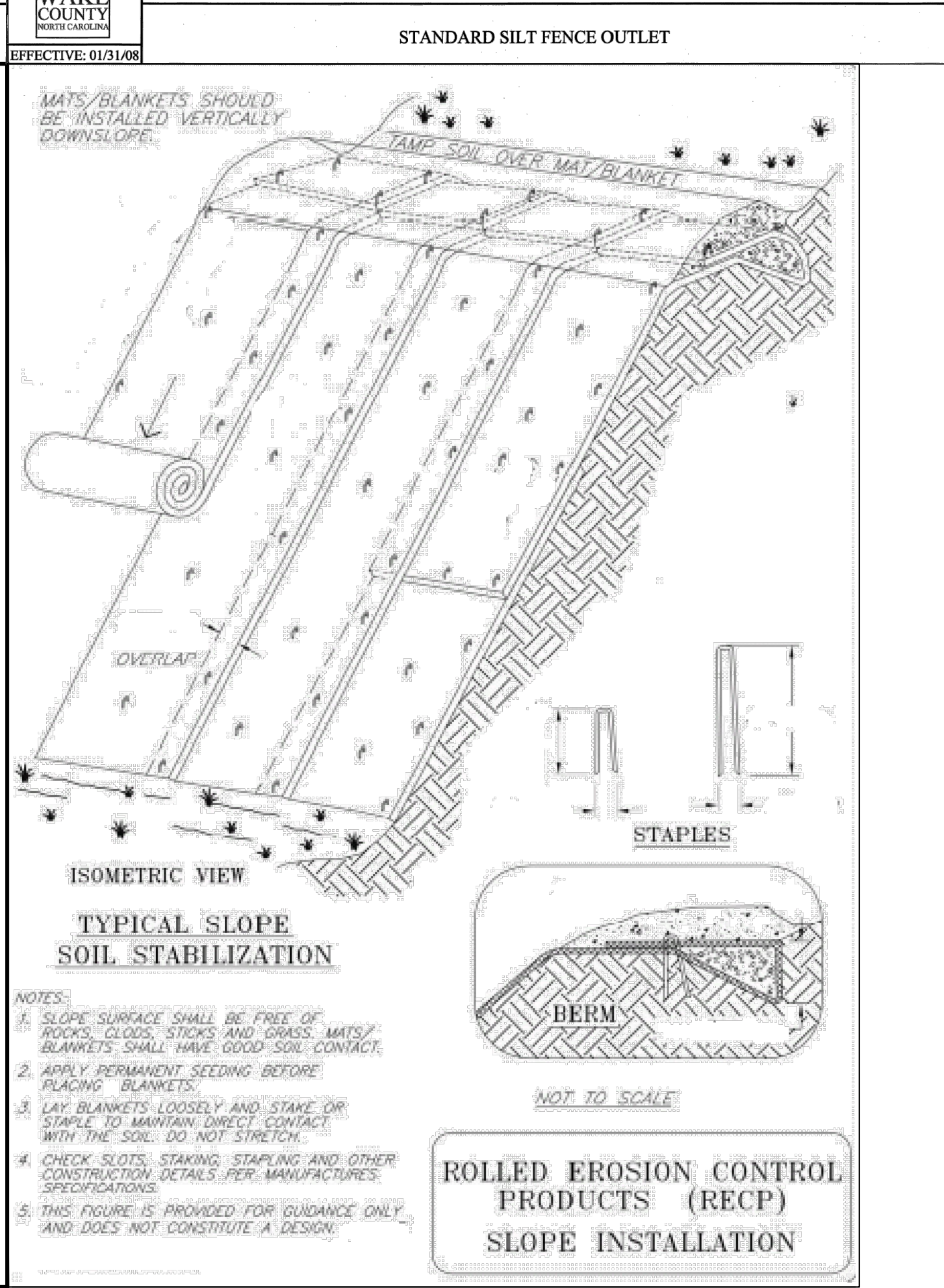
Consult S&E Environmental Engineers for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those that do well under local conditions; other seeding rate combinations are possible. \*\*\* TEMPORARY: Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow more than 12" in height before mowing; otherwise, fescue may be shaded out.



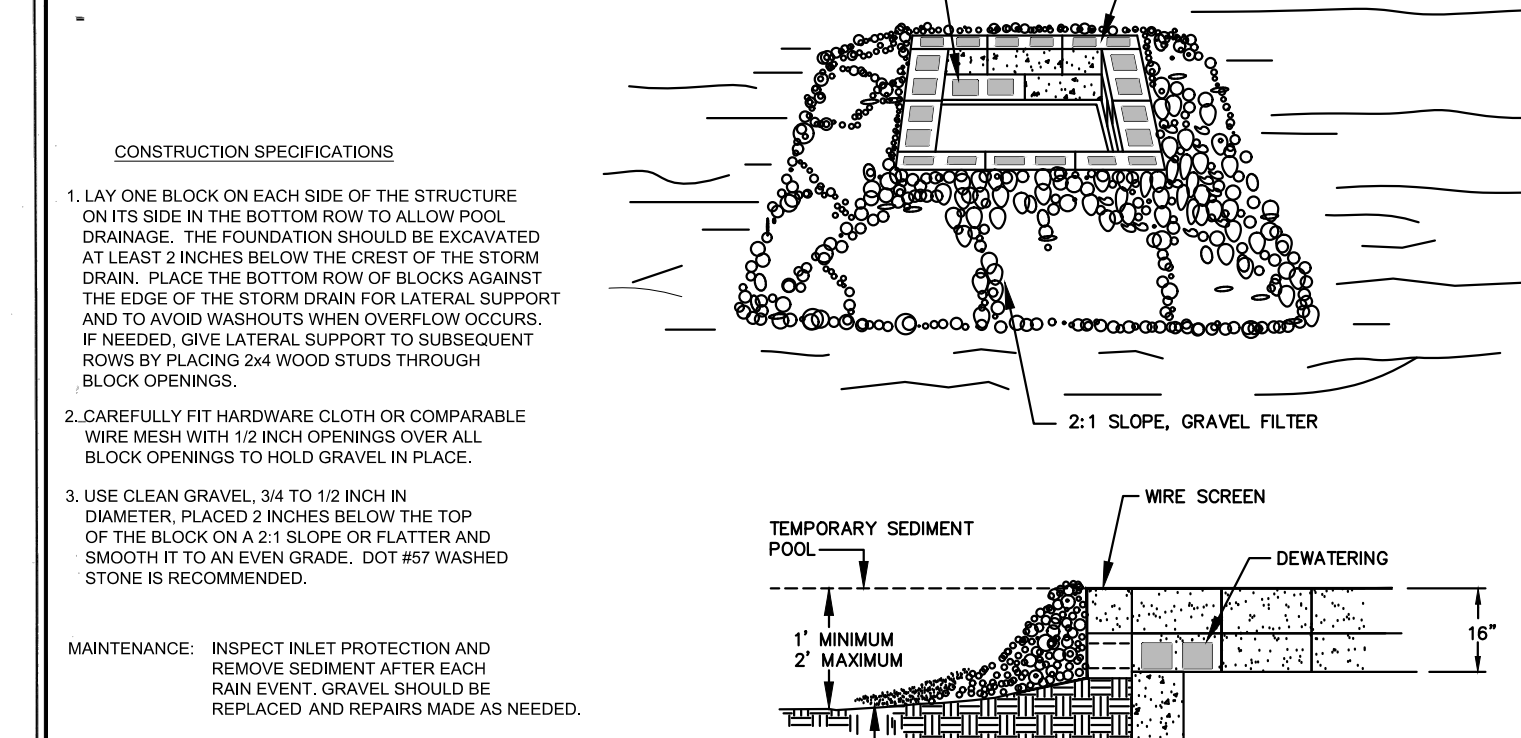
### STANDARD TEMPORARY SILT FENCE



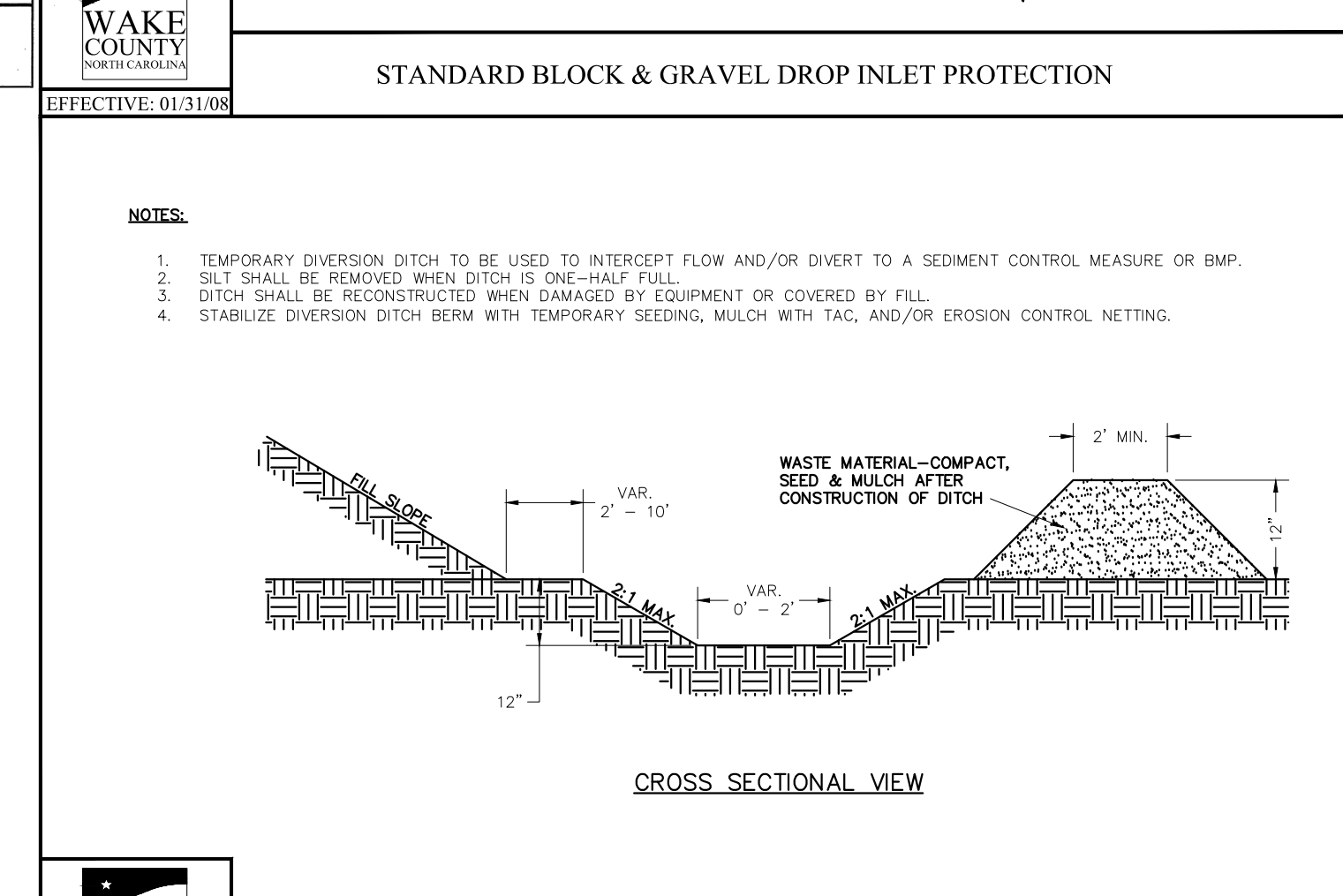
### STANDARD SILT FENCE OUTLET



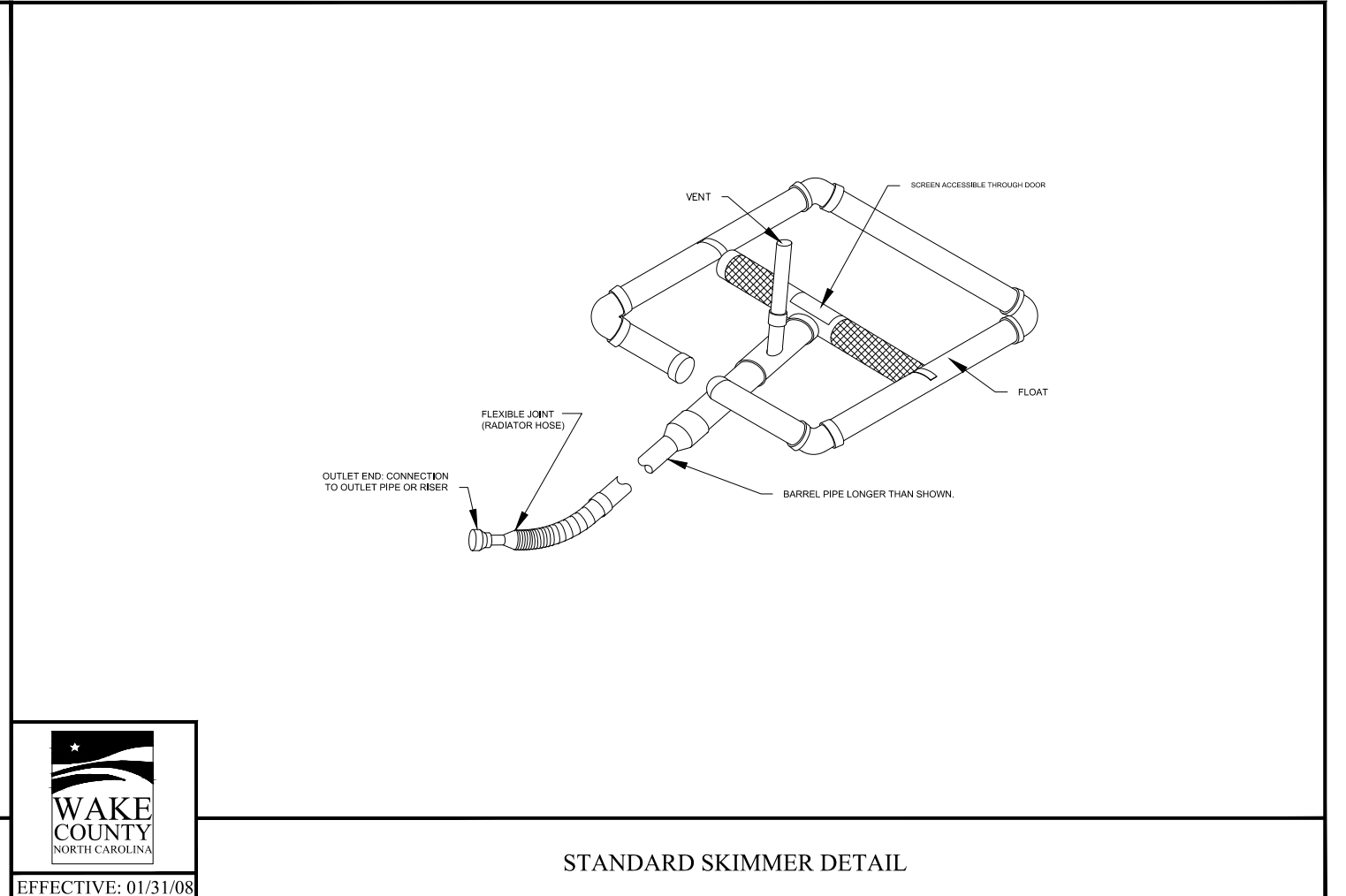
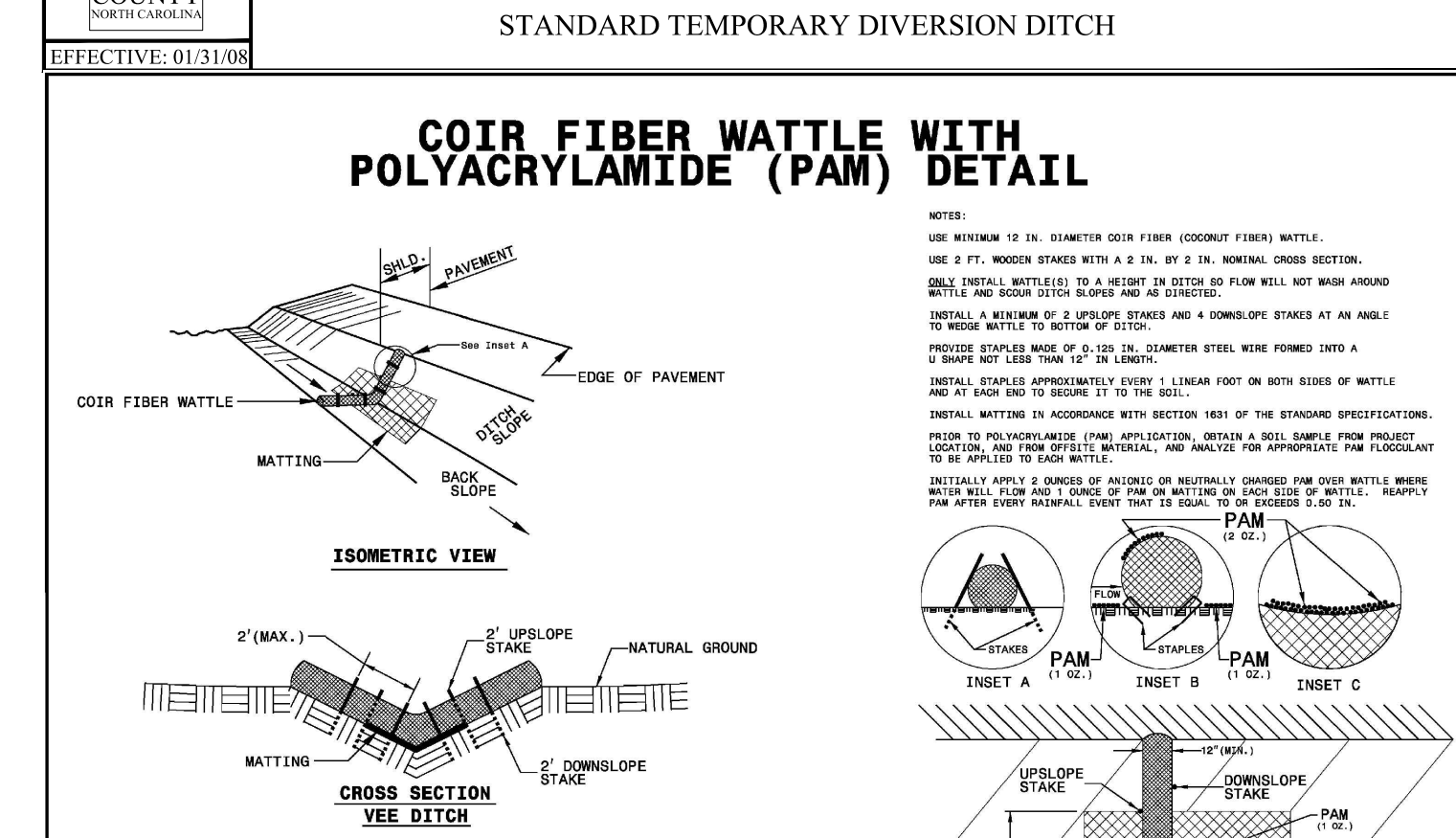
### STANDARD SKIMMER ATTACHED TO PERMANENT RISER



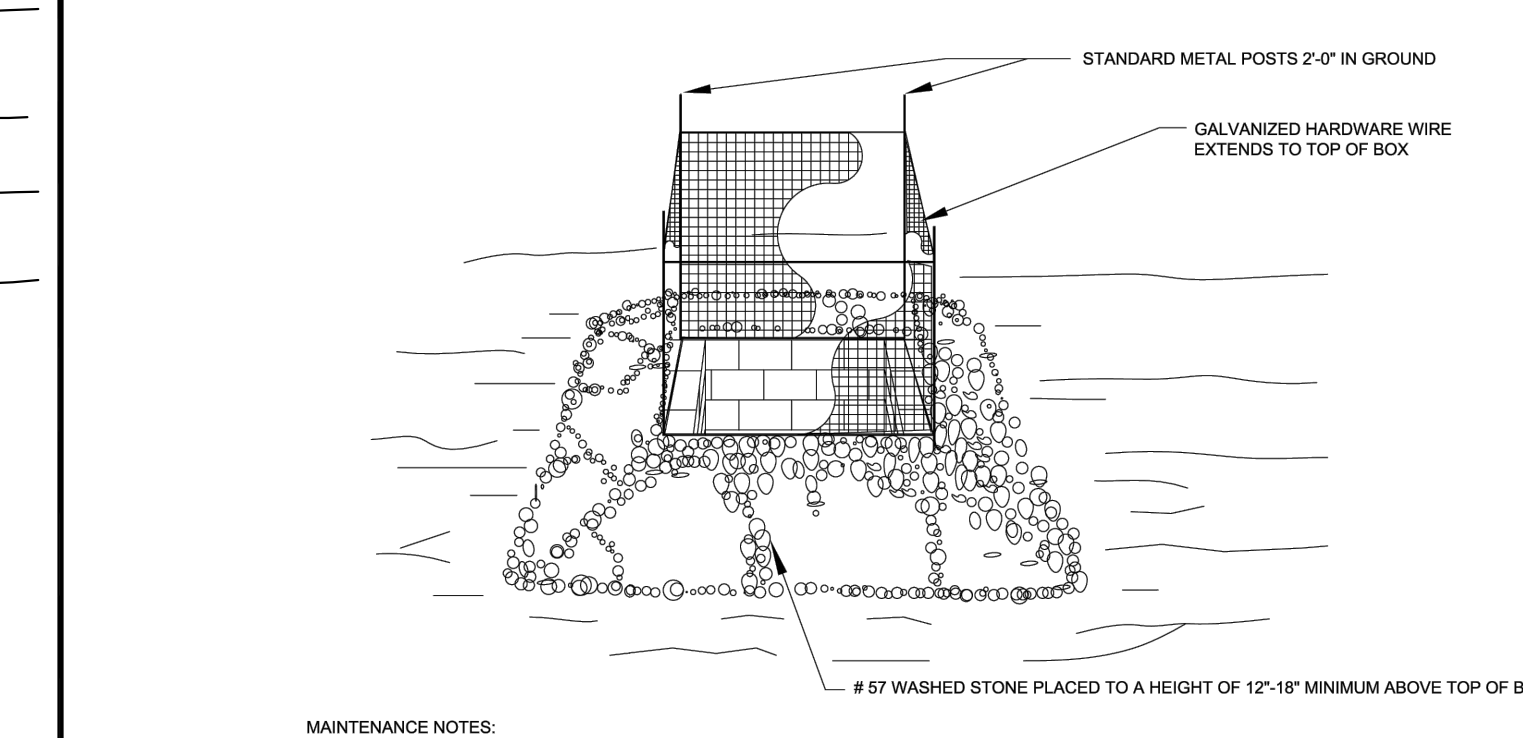
### STANDARD BLOCK & GRAVEL DROP INLET PROTECTION



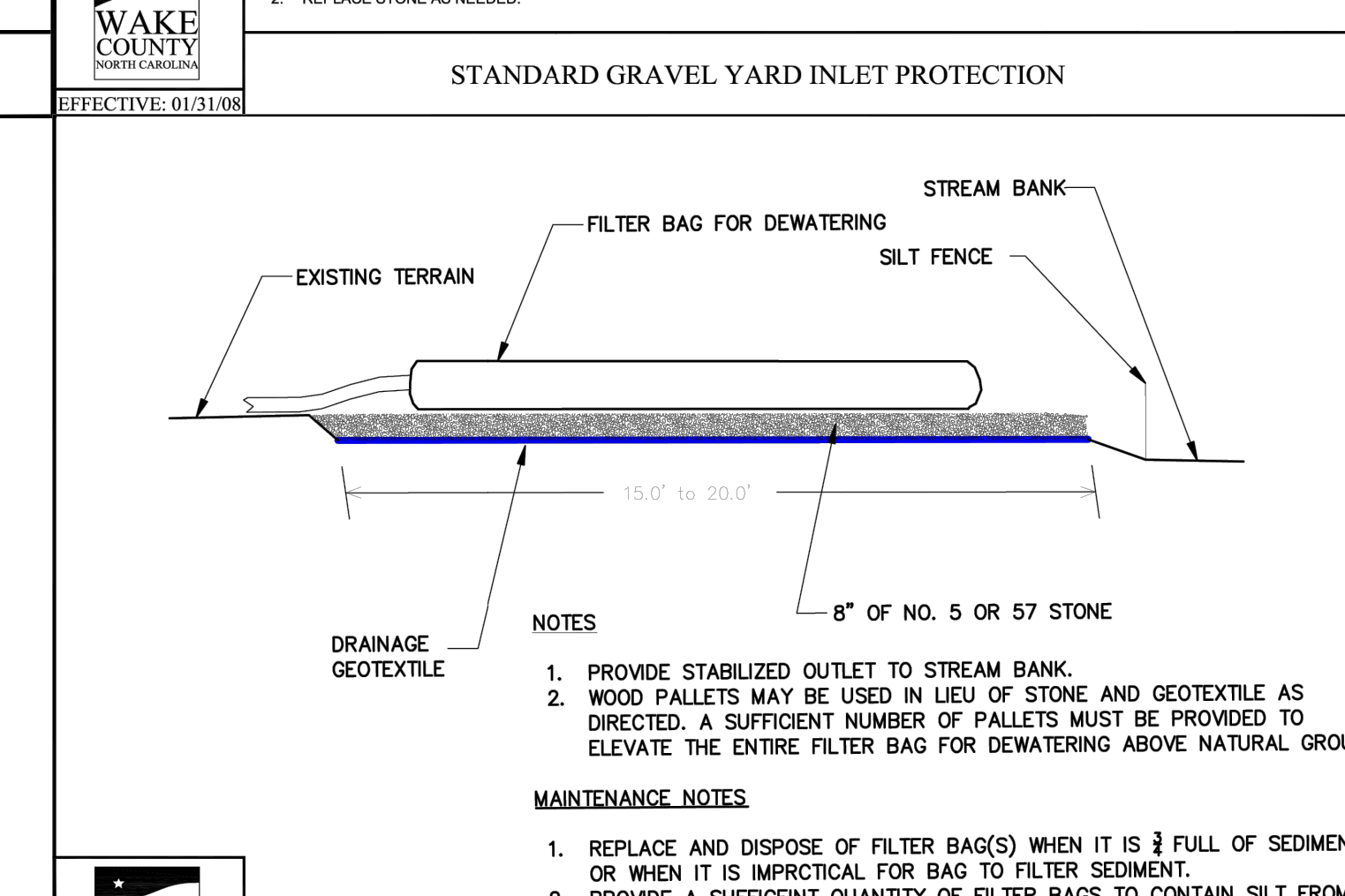
### STANDARD TEMPORARY DIVERSION DITCH



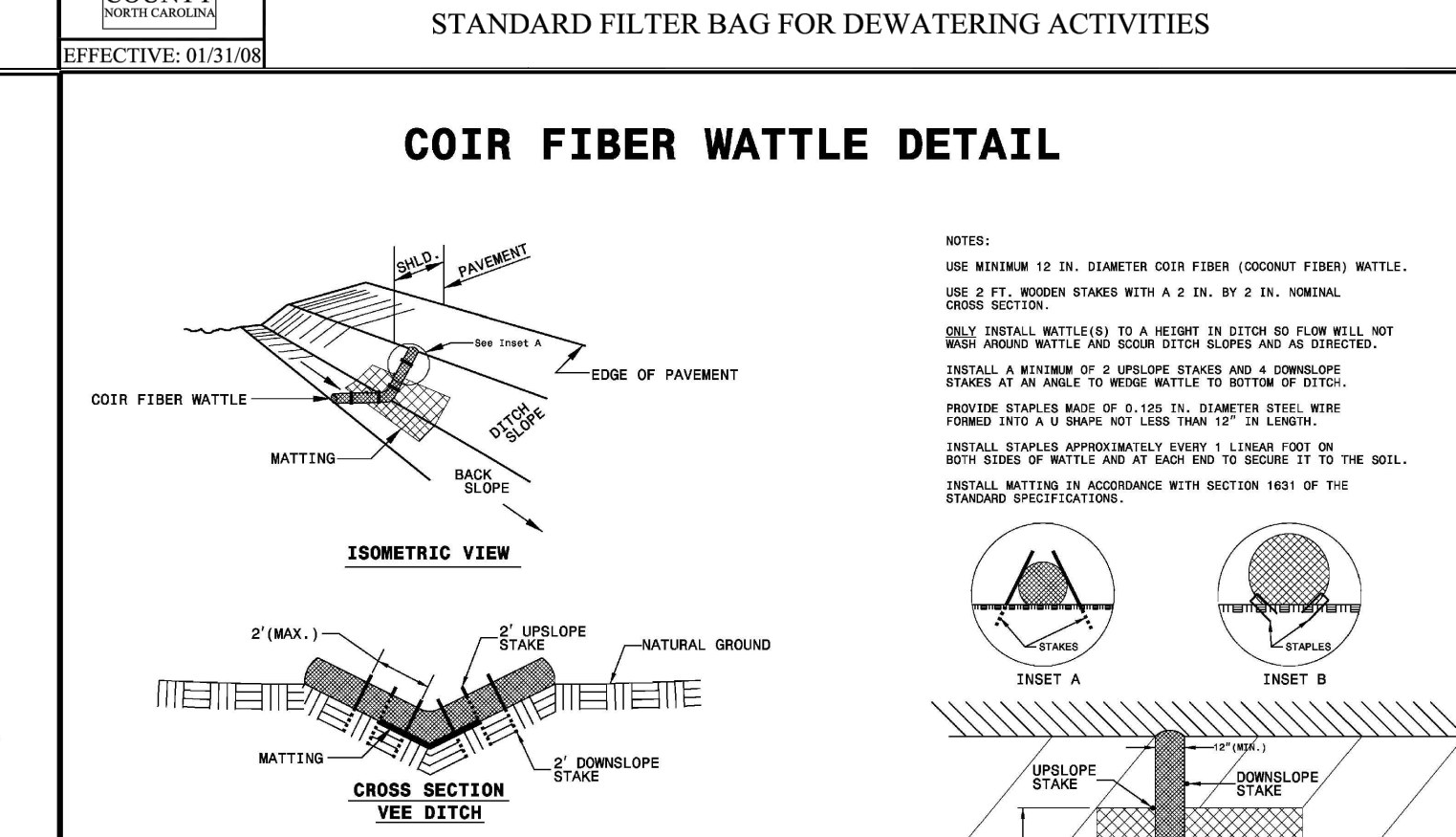
### STANDARD SKIMMER DETAIL



### STANDARD GRAVEL YARD INLET PROTECTION



### STANDARD FILTER BAG FOR DEWATERING ACTIVITIES



WAKE COUNTY ARCHITECTURE

EFFECTIVE: 01/31/08

WAKE COUNTY ARCHITECTURE

EFFECTIVE: 01/31/08

WAKE COUNTY ARCHITECTURE

EFFECTIVE: 01/31/08

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WAKE COUNTY ARCHITECTURE

EFFECTIVE: 01/31/08

G&G BUILDERS, INC.

JOHNSON ARCHITECTURE

REAL ENGINEERING

6109 WILKINSBURG ROAD  
RALEIGH, NC 27612  
(919) 539-7340  
NCBELS FIRM NO: C-4406

WAKE COUNTY ARCHITECTURE

EFFECTIVE: 01/31/08

EROSION CONTROL DETAILS

DATE: 10-03-22  
JOB NO: 21027  
SCALE: N.T.S.

WAKE COUNTY ARCHITECTURE

EFFECTIVE: 01/31/08

NorthWake Eye Care  
A MEMBER OF Vision Source

971 GRANITE FALLS BOULEVARD  
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

WAKE COUNTY ARCHITECTURE

EFFECTIVE: 01/31/08

7

NO.	DATE	DESCRIPTION
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DATE: 03-06-24  
SEAL 029993

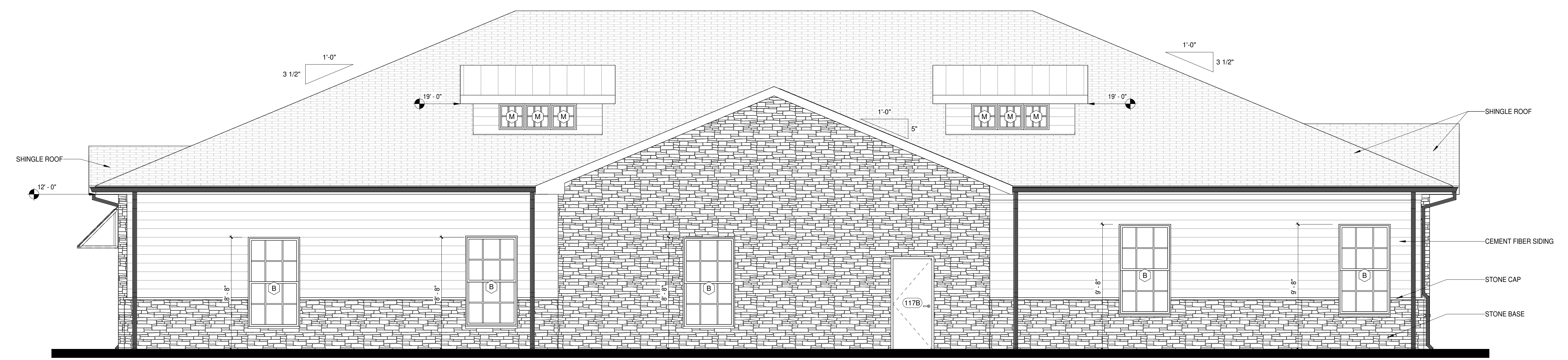
NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ROLESVILLE AND NCDOT

SHEET  
C5.3

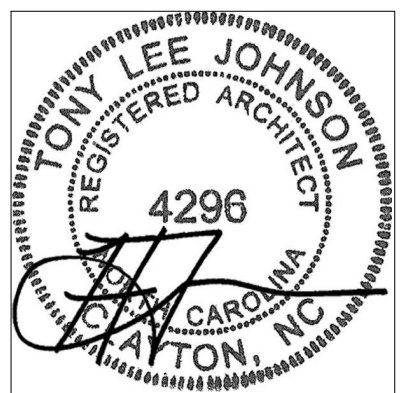


2 EAST ELEVATION - PARKING LOT  
1/4" = 1'-0"

BLACK GUTTERS AND DOWNSPOUTS - TYPICAL ALL ELEVATIONS



1 WEST ELEVATION - ROGERS / GRANITE FALLS CORNER  
1/4" = 1'-0"



NORTH WAKE EYE CARE

971 GRANITE FALLS BLVD ROLESVILLE, NC

919-550-7717  
Tony@TonyJohnsonArchitect.com  
146 Durham Street  
Clayton, NC 27520  
TonyJohnsonArchitect.com

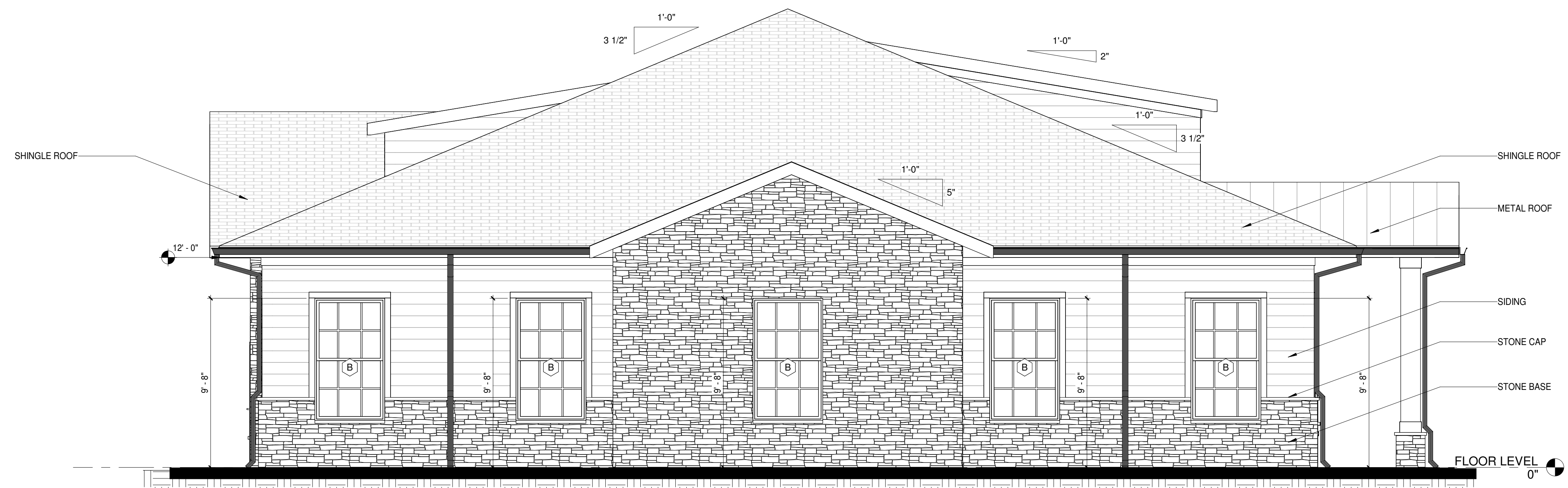


ISSUE DATE	06-27-2022
REVISION	
PROJECT #	2021-135

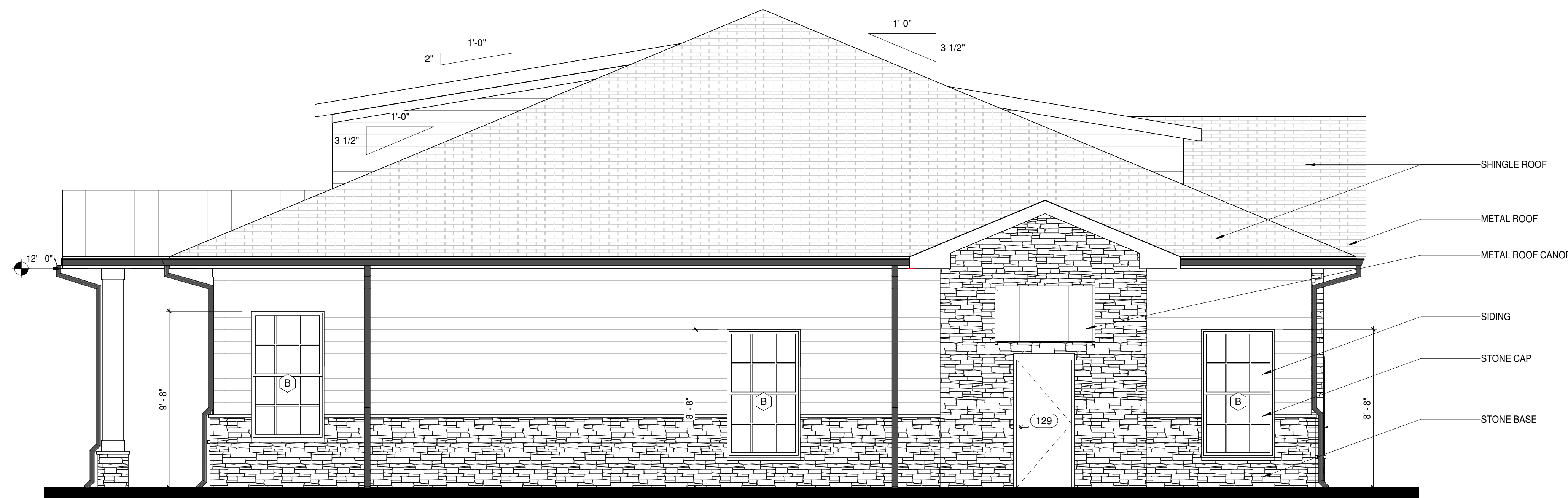
EAST / WEST ELEVATIONS

SHEET

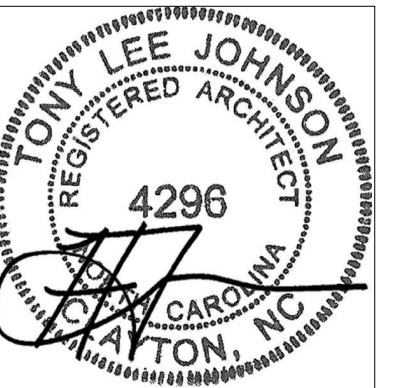
A-1.01



① SOUTH ELEVATION - ROGERS ROAD  
1/4" = 1'-0"



② NORTH ELEVATION - GRANITE FALLS  
1/4" = 1'-0"



06-27-2022



NORTH WAKE EYE CARE

971 GRANITE FALLS BLVD ROLESVILLE, NC

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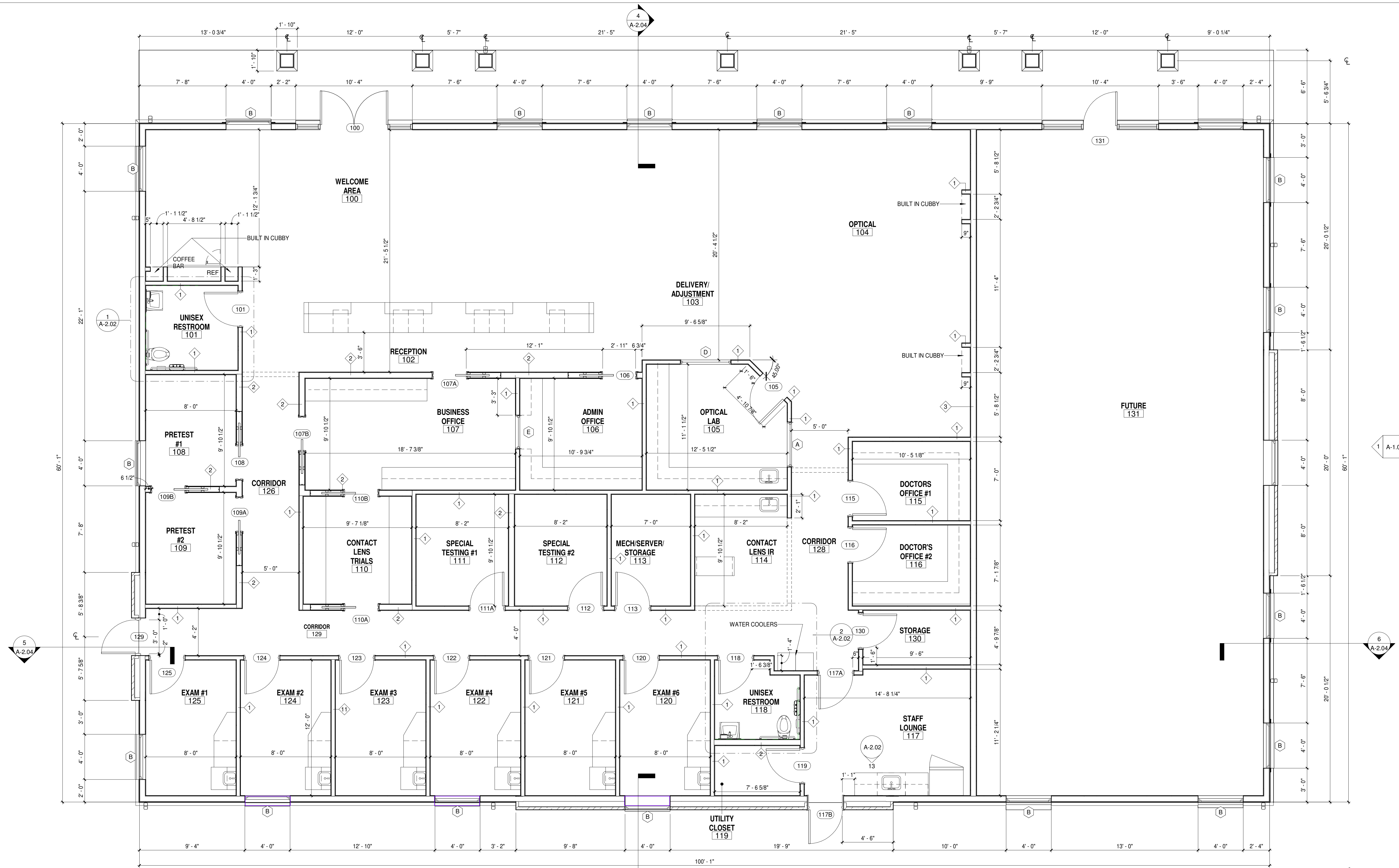
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NORTH / SOUTH ELEVATIONS

SHEET

A-1.02

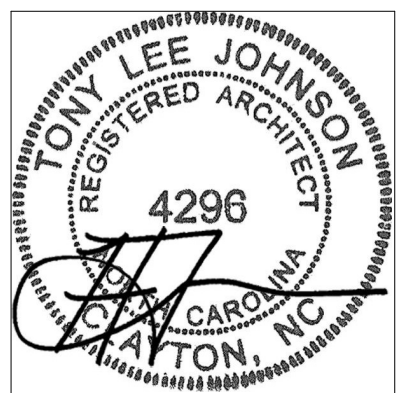


2 FLOOR PLAN  
1/4" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE TO FINISHED FACE OF WALL UNLESS NOTED OTHERWISE

**WALL TYPES**

- 1 - INTERIOR WALL: 2X4 WOOD STUDS @ 16" OC TO ABOVE CEILING GRID -5/8" GWB EACH FACE- SOUND BATT INSULATION
  - 2 - INTERIOR WALL: 2x6 WOOD STUDS @ 16" OC TO ABOVE CEILING-5/8" GWB EACH EXPOSED FACE- SOUND BATT INSULATION
  - 3 - INTERIOR WALL: 2x6 WOOD STUDS @ 16" OC TO ROOF DECK-5/8" GWB EACH EXPOSED FACE-R-19 BATT INSULATION
- THERE ARE NO RATED WALLS



**NORTH WAKE EYE CARE**

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