





**BULLARD RESTAURANT GROUP**  
**9131 ANSON WAY, #305**  
**RALEIGH, NC 27615**

**CSD PROJECT NUMBER: BUL-2103**  
**CASE NUMBER: SDP-23-02**

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<b>REVISIONS:</b>			
	2023-5-3	ROLESVILLE TRC COMMENTS	KL
NO.	DATE	DESCRIPTION	BY

<b>EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT</b>  <b>APPROVED</b>  EROSION CONTROL <input type="checkbox"/> S- _____ STORMWATER MGMT. <input type="checkbox"/> S- _____ FLOOD STUDY <input type="checkbox"/> S- _____ DATE _____
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">   <b>WAKE COUNTY</b>  <small>OFFICE OF THE DIRECTOR OF WPD</small> </div> <div style="flex-grow: 1; text-align: center;">             ENVIRONMENTAL CONSULTANT SIGNATURE           </div> </div>

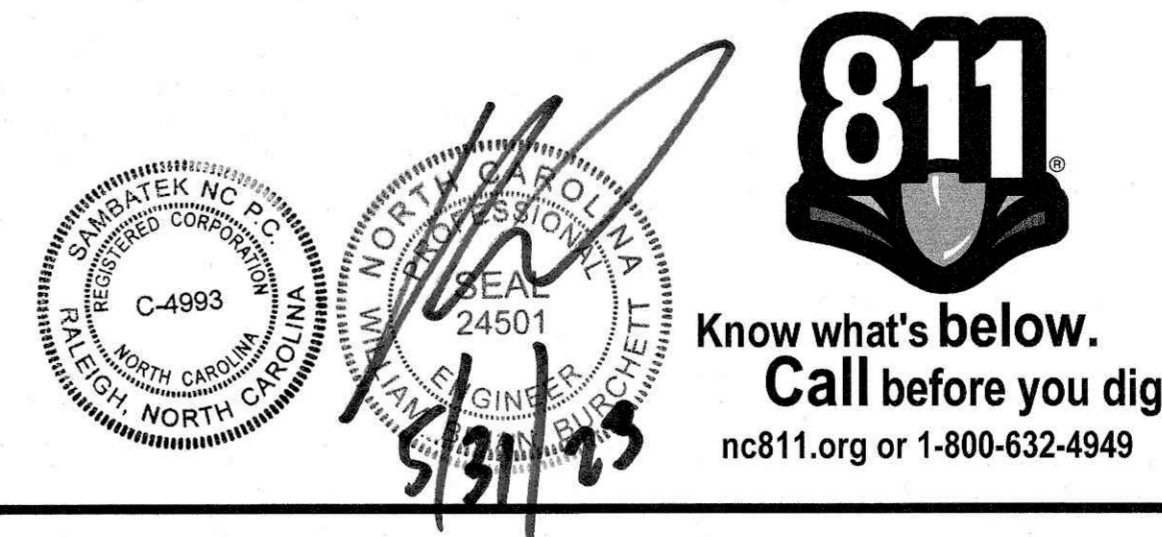


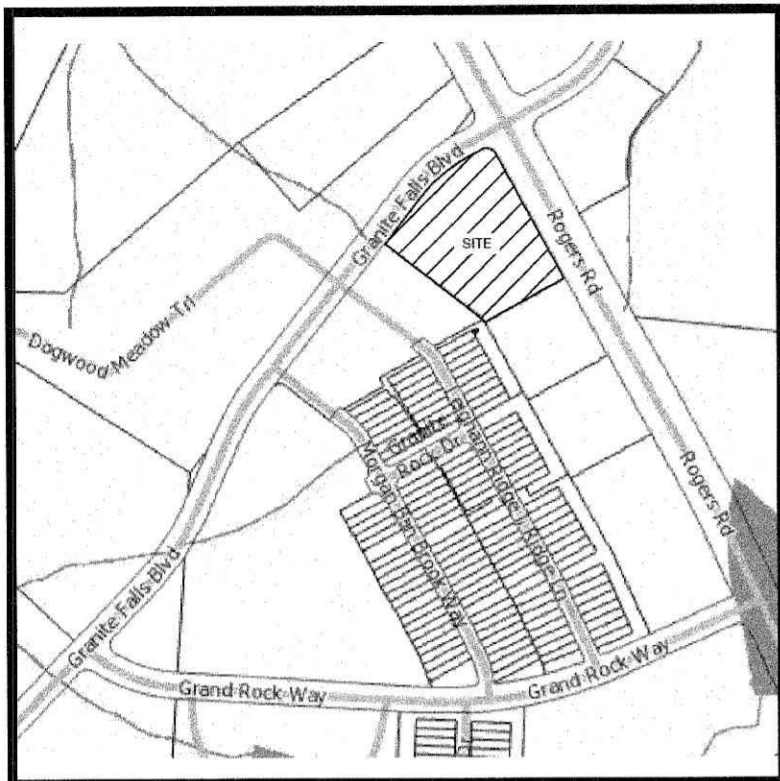
**CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION**

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City of Raleigh Development Approval

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VICINITY MAP  
NTS

**FLOOD NOTE:**

SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY HUD F.I.R.M. COMMUNITY PANEL NUMBER 3720175900K WITH AN EFFECTIVE DATE OF JULY 19, 2022

N/F  
PEARCE, FRANK C JR  
REID: 0053650  
BOM: 1993 Pg. 839  
PIN 1759, 1961 9137  
DB: 5742 Pg. 202

**DEMOLITION KEYNOTES:**

- 1 REMOVE EXISTING ITEM, COORDINATE REMOVAL WITH APPLICABLE FEDERAL, STATE, COUNTY, CITY, LOCAL AGENCIES OR LOCAL UTILITY COMPANY.
- 2 RELOCATE EXISTING ITEM, COORDINATE RELOCATION WITH APPLICABLE FEDERAL, STATE, COUNTY, CITY, LOCAL AGENCIES OR LOCAL UTILITY COMPANY.
- 3 ITEM TO REMAIN.

..... SAWCUT LINE

**GENERAL NOTES:**

1. THE INFORMATION SHOWN HEREIN WAS TAKEN FROM A TOPOGRAPHIC SURVEY PREPARED BY:  
COMMERCIAL SITE DESIGN  
8312 CREEDMOOR ROAD  
RALEIGH, NC 27613  
PHONE: (919) 848-6121
2. THE LOCATIONS OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UTILITIES WITH THE UTILITY OWNERS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA	BEARING	CHORD	TANGENT
C1	147.42'	365.00'	23.14°	S49°42'58"W	146.42'	74.73'
C2	39.28'	25.00'	90.02°	N73°42'07"W	35.36'	25.01'



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A Santelek Company  
(919) 848-6121 FAX: (919) 848-2741  
WWW.CSITDESIGN.COM



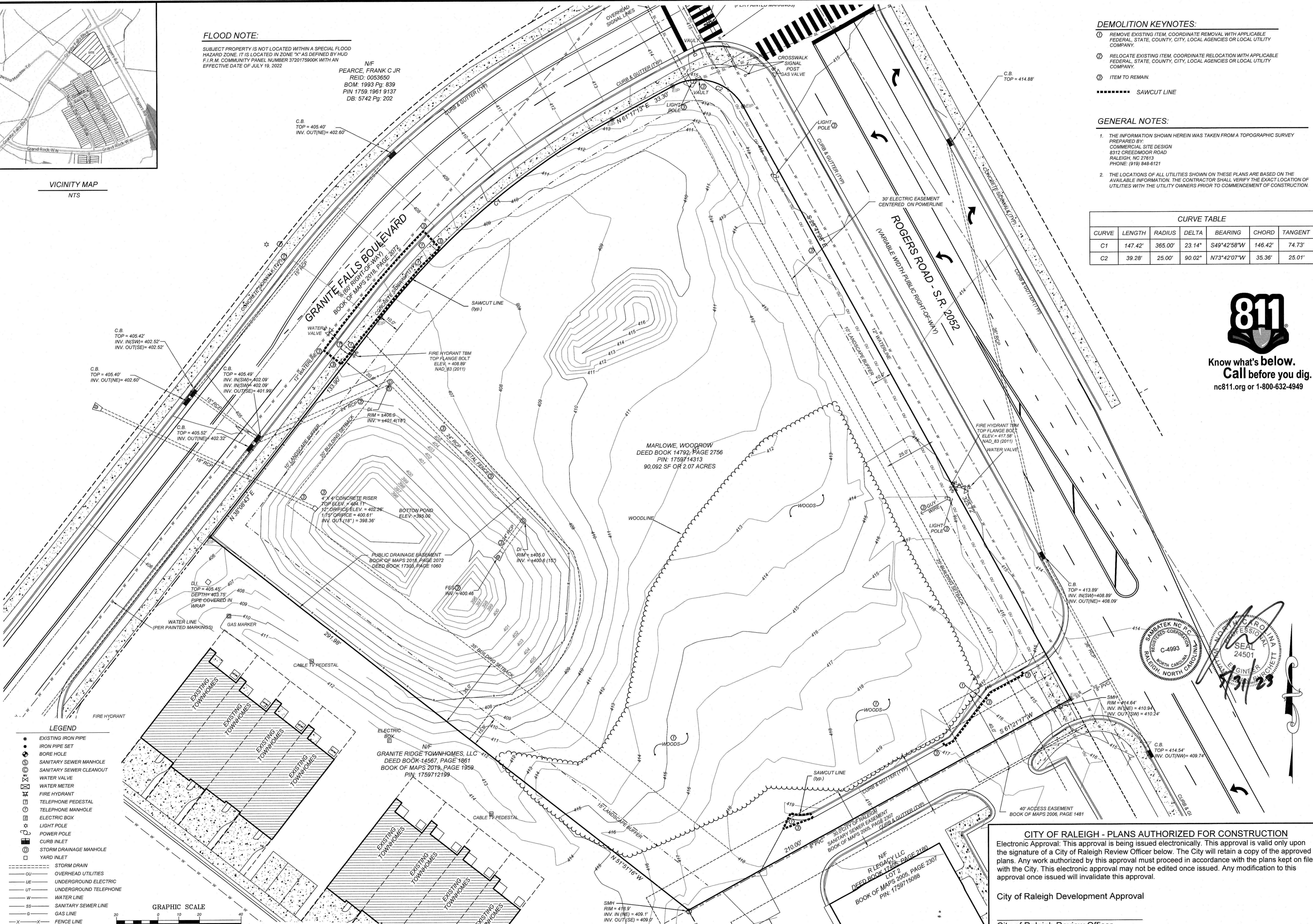
872 CREEDMOOR ROAD  
RALEIGH, NORTH CAROLINA 27613

CLIENT:  
BULLARD RESTAURANT GROUP  
9131 ANSON WAY, # 505  
RALEIGH, NC 27615

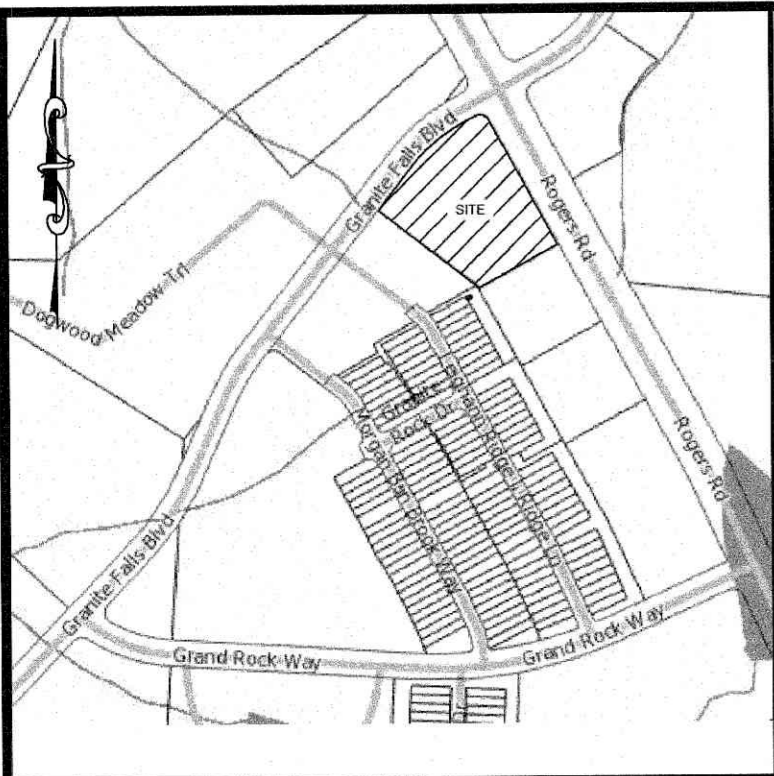
PROPOSED RETAIL AND  
RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

EXISTING CONDITIONS / DEMOLITION PLAN

PROJECT NO: BUL-2103  
FILENAME: BUL2103-DP  
DRAWN BY: RCN  
SCALE: 1" = 20'  
DATE: 12-06-2022  
SHEET NO: C-1



X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-SP.DWG, 5/30/2023 1:46:09 PM, chrisn



VICINITY MAP  
NTS

#### SITE KEYNOTES:

1. CONSTRUCT 2' 0" CONCRETE SPILLING CURB AND GUTTER PER DETAIL SHEET
2. CONSTRUCT 2' 0" CONCRETE CATCHING CURB AND GUTTER PER DETAIL SHEET
3. CONSTRUCT CONCRETE SIDEWALK PER DETAIL SHEET
4. CONSTRUCT CONCRETE SIDEWALK PER NCDOT STANDARDS & SPECIFICATIONS
5. CONSTRUCT CONCRETE HANDICAP RAMP PER DETAIL SHEET
6. CONSTRUCT CONCRETE HANDICAP RAMP PER NCDOT STANDARDS & SPECIFICATIONS
7. HANDICAP PARKING STALL
8. INSTALL HANDICAP PARKING SIGN PER DETAIL SHEET
9. INSTALL "VAN ACCESSIBLE" PARKING SIGN PER DETAIL SHEET
10. CONCRETE PAVEMENT PER DETAIL SHEET
11. ASPHALT PAVEMENT PER DETAIL SHEET
12. TRANSFORMER PAD BY GENERAL CONTRACTOR, PER ELECTRIC COMPANY SPECIFICATIONS, (COORDINATE SIZE AND LOCATION WITH UTILITY COMPANY)
13. CONSTRUCT DUMPSTER PAD, MINIMUM 6" CONCRETE WITH 4" ABC BASE, AND TRASH ENCLOSURE WITH GATES, SEE ARCHITECTURAL SHEETS FOR DETAIL, MATERIALS TO MATCH BUILDING
14. CONCRETE WHEEL STOP PER DETAIL SHEET
15. POLE MOUNTED AREA LIGHT, SEE LIGHTING PLAN
16. PAINT 4" WIDE STRIPE, WHITE
17. PAINT 4" WIDE STRIPE @ 45°, 2 FEET APART
18. PAINT TRAFFIC ARROWS PER DETAIL SHEET
19. SITE IDENTIFICATION SIGN
20. CONCRETE VALLEY GUTTER PER DETAIL SHEET
21. MATCH EXISTING CURB & GUTTER
22. ASPHALT/CONCRETE TRANSITION PER DETAIL
23. INSTALL STEEL PIPE BOLLARD PER DETAIL SHEET
24. MATCH EXISTING ASPHALT PAVEMENT
25. MATCH EXISTING CONCRETE SIDEWALK
26. PAINT CROSSWALK PER DETAIL SHEET
27. INSTALL "RIGHT TURN ONLY" SIGN PER MUTCD AND NCDOT STANDARDS & SPECIFICATION
28. INSTALL "STOP" SIGN AND "DO NOT ENTER" SIGN PER MUTCD AND NCDOT STANDARDS & SPECIFICATION
29. INSTALL "STOP" SIGN PER MUTCD AND NCDOT STANDARDS & SPECIFICATION
30. PAINT "STOP" BAR PER MUTCD AND NCDOT STANDARDS & SPECIFICATION
31. PAINT "DO NOT ENTER" PER MUTCD AND NCDOT STANDARDS & SPECIFICATION
32. RETAINING WALL WITH PEDESTRIAN HAND RAIL, DESIGN BY STRUCTURAL ENGINEER
33. INSTALL MENU BOARD AND SPEAKER POST, COORDINATE WITH OWNER & ARCHITECT
34. CONSTRUCT CONCRETE LOADING RAMP
35. BICYCLE PARKING
36. PAINT CROSSWALK PER DETAIL SHEET
37. PATIO SEATING
38. 15' X 30' LOADING AREA



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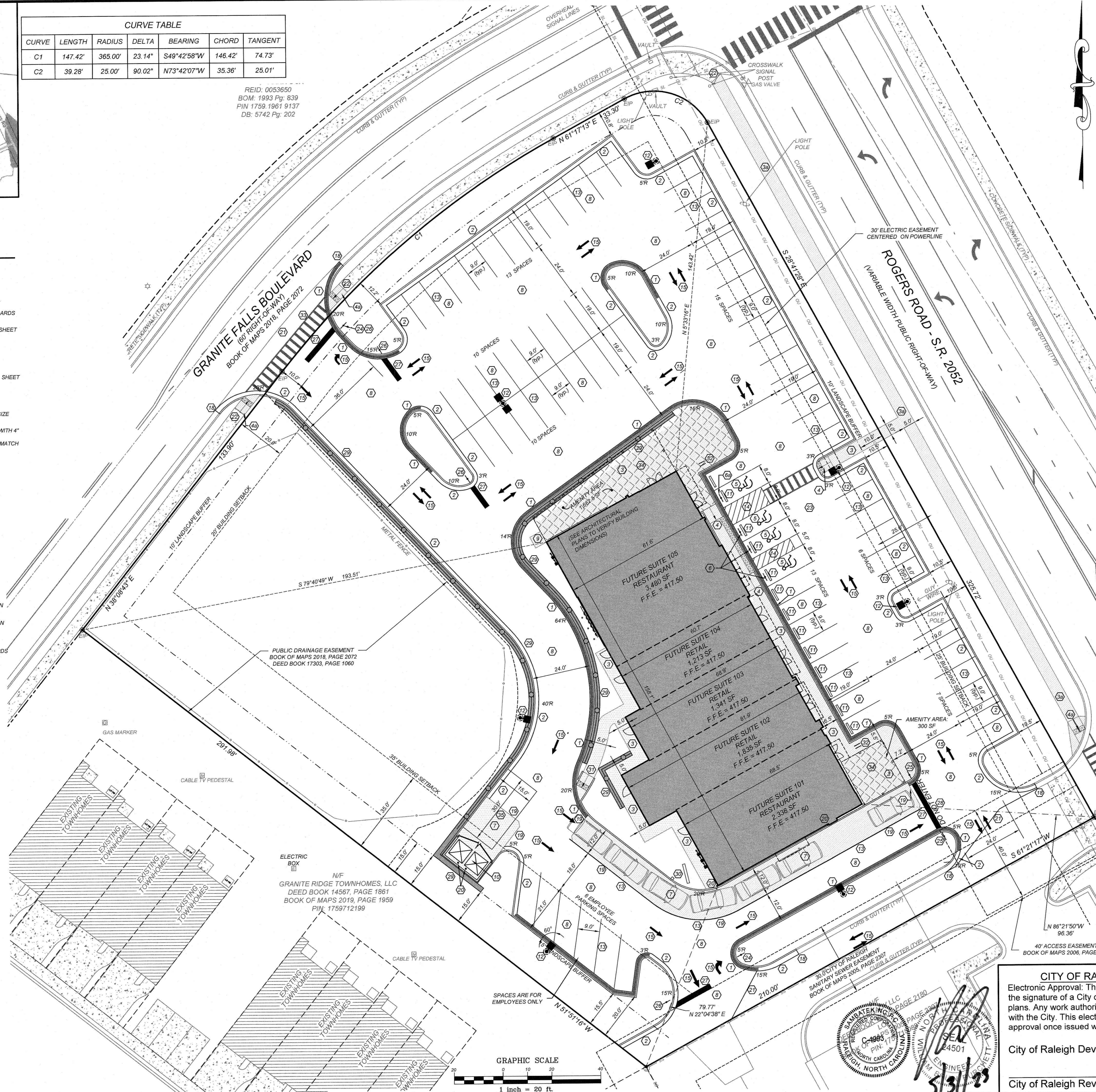
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#### SITE LEGEND

- SPILL CURB
- HANDICAP RAMP
- HANDICAP STALL
- PROPOSED CONCRETE
- EXISTING CONCRETE
- PROPERTY LINE
- SIGN
- BOLLARD
- EX. FIRE HYDRANT
- FENCE
- POLE MOUNTED AREA LIGHT
- PROPERTY CORNER
- FINISH FLOOR ELEVATION

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	BEARING	CHORD
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COMMERCIAL SITE DESIGN  
8312 CREEDMOOR ROAD  
RALEIGH, NC 27613  
PHONE: (919) 848-6121
2. THE LOCATIONS OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UTILITIES WITH THE UTILITY OWNERS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. ALL HANDICAP SITE FEATURES SHALL BE CONSTRUCTED TO MEET ALL FEDERAL, STATE AND LOCAL CODES.
4. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
5. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. FAILURE OF THE CONTRACTOR TO FOLLOW THIS PROCEDURE SHALL CAUSE THE CONTRACTOR TO ASSUME FULL RESPONSIBILITY FOR ANY SUBSEQUENT MODIFICATION OF THE WORK MANDATED BY ANY REGULATORY AUTHORITY. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY AND LOCAL CODES.
6. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
7. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
8. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH RESPECTIVE UTILITY.
9. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE CONTRACT LIMITS DUE TO CONSTRUCTION OPERATIONS.
10. ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.
11. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
12. THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
13. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
14. GENERAL CONTRACTOR WILL ERECT AND ILLUMINATE A SITE IDENTIFICATION SIGN, PER OWNER'S SPECIFICATION. COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE UNLESS NOTED DIFFERENT ON PLAN.
15. FINISH CURB AND WALK ELEVATIONS SHALL BE 6" ABOVE FINISH PAVEMENT GRADE UNLESS NOTED DIFFERENT ON PLAN.
16. CONTRACTOR SHALL ENSURE THAT ADEQUATE SITE LIGHTING IS PROVIDED PER OWNER'S SPECIFICATIONS.
17. ALL RADII DIMENSIONS ARE TO FACE OF CURB.
18. ALL UTILITIES TO SERVICE BUILDING SHALL BE UNDERGROUND ON SITE, UNLESS OTHERWISE INDICATED.
19. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, CURB AND GUTTERS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.
20. ALL DISTURBED AREAS SHALL HAVE TEMPORARY SEEDING AND MULCHING. ALL AREAS THAT ARE PLANNED TO BE BARE FOR MORE THAN 45 DAYS SHALL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS.
21. ALL LOT STRIPING AND DIRECTIONAL ARROWS TO BE WHITE REFLECTIVE MARKINGS AND SHALL CONFORM TO LOCAL REGULATIONS.
22. COMPACTION AND MAINTENANCE OF PROPER MOISTURE CONTENT OF THE SOIL UNDER BUILDINGS AND PAVED AREAS SHALL BE ACCOMPLISHED TO ACHIEVE 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY OR AS RECOMMENDED IN THE SOIL REPORT.
23. THE CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
24. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHO PREPARED THE PLANS OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATIONS TO THESE PLANS OR OF ANY FIELD CONFLICTS.
25. ALL PERMITS RELATIVE TO THE PROJECT MUST BE OBTAINED, PRIOR TO CONSTRUCTION. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY AND LOCAL CODES.
26. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS.
27. ALL PARKING LOT DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
28. CONTRACTOR SHALL COORDINATE EXACT SIZE OF HVAC CONCRETE PADS WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS FOR DETAILS.
29. ALL SEEDING, TEMPORARY AND PERMANENT, TO BE INSTALLED TO LOCAL REGULATIONS AND STANDARD PRACTICES.
30. ALL ROAD WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.
31. ANY AND ALL QUANTITIES SHOWN OR IMPLIED ON THESE PLANS ARE FOR ESTIMATION PURPOSES ONLY.
32. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE IRRIGATION CONTRACTOR, FOR IRRIGATION SLEEVE SIZE FOR IRRIGATION SYSTEM.
33. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.

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REVISIONS		ROLESVILLE TRC COMMENTS	KL	NO.	DATE	DESCRIPTION	BY
1	2023-5-3						

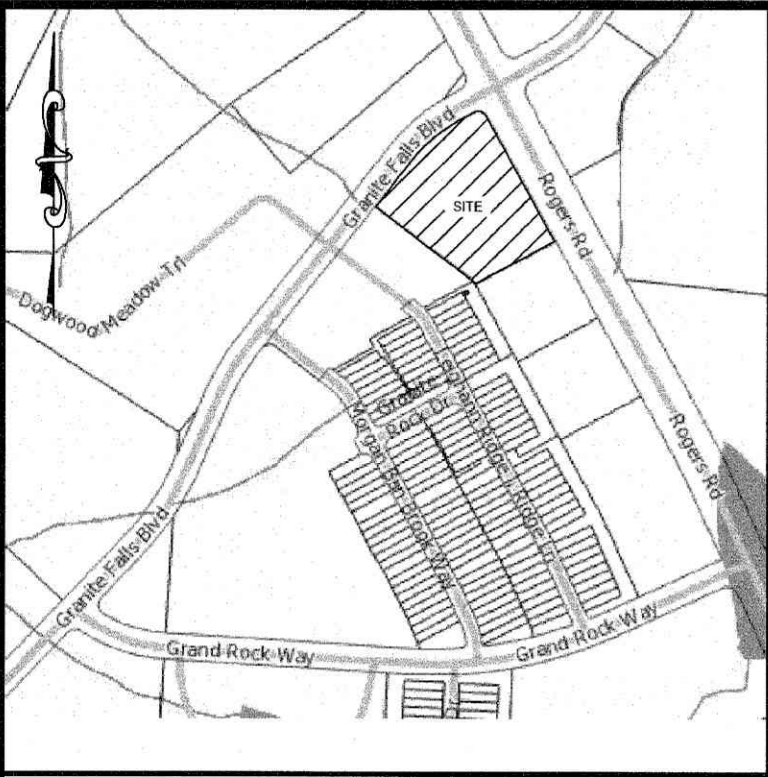


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SITE DESIGN  
A Sambatek Company  
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CLIENT:  
BULLARD RESTAURANT GROUP  
9731 ANSON WAY, # 305  
RALEIGH, NC 27615

PROPOSED RETAIL AND  
RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

PROJECT NO.	BUL-2103
FILENAME:	BUL2103-SP
DRAWN BY:	RCN
SCALE:	1" = 20'
DATE:	12-06-2022
SHEET NO.	C-2



VICINITY MAP  
NTS

#### MAINTENANCE NOTES:

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED AND MAINTAINED DAILY AND AFTER EACH RAINFALL EVENT. ANY SEDIMENT THAT HAS BEEN TRANSPORTED BEYOND THE PROJECT LIMITS SHALL BE REMOVED. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

##### CONSTRUCTION ENTRANCE:

INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESSES WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.

##### SILT FENCE:

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

##### SILT FENCE GRAVEL OUTLET:

INSTALL SILT FENCE GRAVEL OUTLETS AT ALL LOW POINTS IN FENCE. INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.

##### OUTLET STABILIZATION STRUCTURE:

INSPECT RIP RAP STRUCTURES WEEKLY AND AFTER SIGNIFICANT (10 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

##### BLOCK AND GRAVEL INLET PROTECTION:

INSTALL BLOCK GRAVEL INLET PROTECTION ON ALL STORM STRUCTURES. INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY, BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

##### DIVERSION DITCHES:

INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL, TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

##### SKIMMER BASIN:

INSPECT SKIMMER BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REMOVE IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

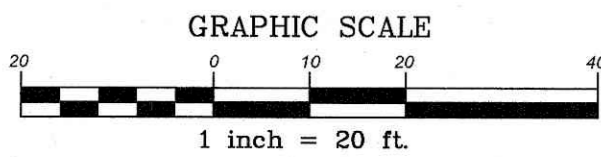
REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

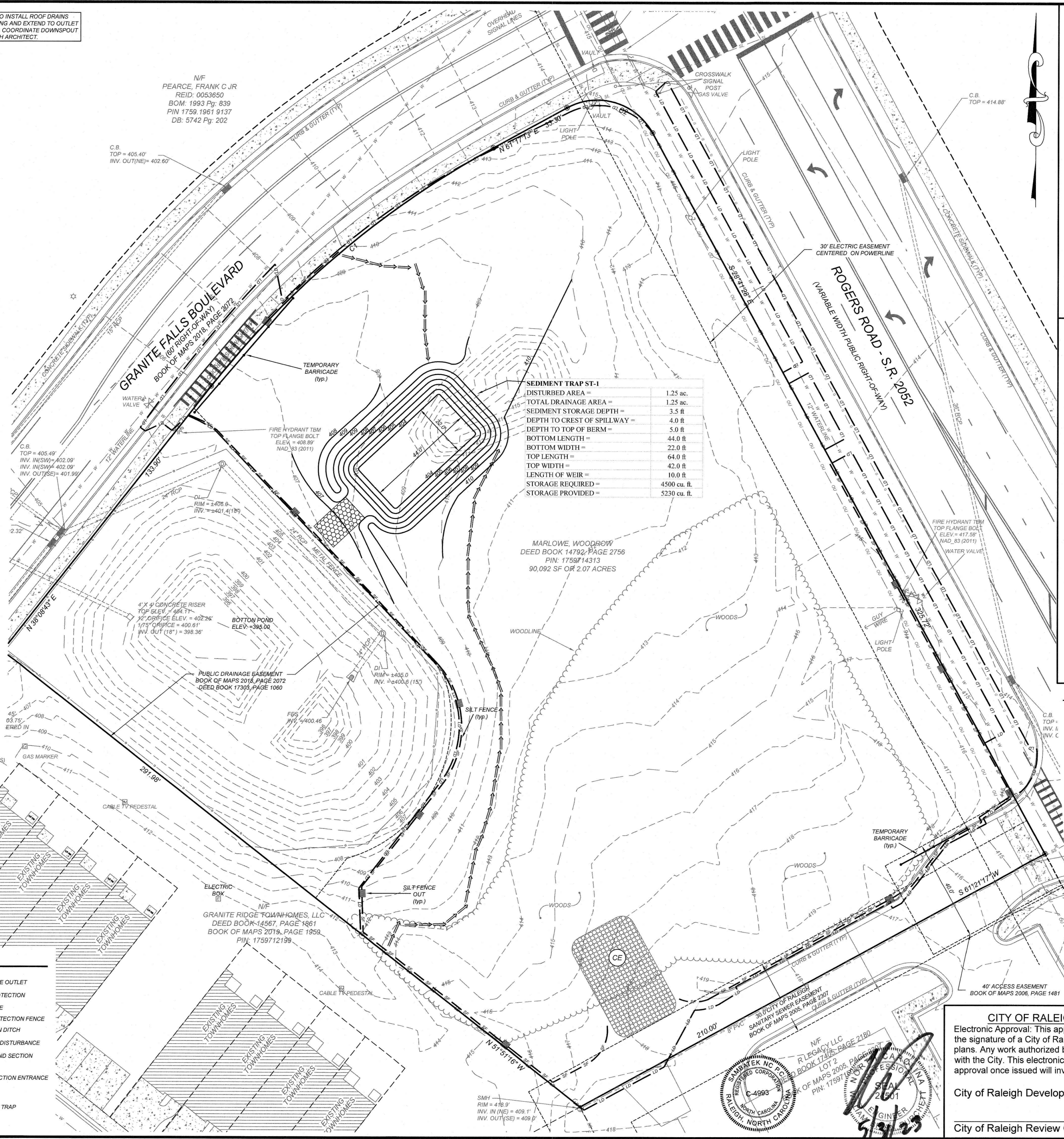
FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.



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#### GRADING/EROSION CONTROL LEGEND

■ DROP INLET	■ SILT FENCE OUTLET
■ CURB INLET	○ INLET PROTECTION
--- STORM PIPE	○ SILT FENCE
XXX-XX TOP OF CURB	TP TREE PROTECTION FENCE
XXX-XX BOTTOM OF CURB	→ DIVERSION DITCH
--- HANDICAP AREA (2% MAX. SLOPE)	LD LIMITS OF DISTURBANCE
--- SPILL CURB	FLARED END SECTION
TH=XXXXXX GROUND AT TOP OF WALL	■ CONSTRUCTION ENTRANCE
BW=XXXXXX GROUND AT BOTTOM OF WALL	■ SEDIMENT TRAP
■ INLINE DRAIN	
--- RD ROOF DRAIN	
9" CORRUGATED PLASTIC	
3" MIN. COVER	
1% MIN. SLOPE	
PVC IN TRAP AREAS	
CLEANOUTS LOCATED @ ALL BENDS	



#### CONSTRUCTION SEQUENCE:

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EROSION IS MINIMIZED AND THAT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES IS MAINTAINED THROUGHOUT EXECUTION OF THIS PROJECT.

##### PHASE I - SHEET C-3

- OBTAIN A LAND DISTURBING PERMIT. SCHEDULE A PRE-CONSTRUCTION MEETING.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT TRAPS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEE TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION. SEE DETAIL ON SEEDING SCHEDULE. CONTRACTOR SHALL BEGIN WITH SEDIMENT FENCING AND ALL OTHER SEDIMENT CONTAINMENT DEVICES FOLLOWED BY ALL DIVERSION AND BY-PASS DITCHES/BERMS.
- BEGIN CLEARING/GRUBBING AND GENERAL EXCAVATION ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHASE/STAGE EROSION CONTROL TO ALLOW FOR CONSTRUCTION.  
NOTE: CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION DEVICES AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES/SEDIMENT TRAPS UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.

##### PHASE II - SHEET C-4

- BEGIN INSTALLING UPSTREAM STORM DRAINAGE SYSTEM. INSTALL APPROVED INLET PROTECTION. TERMINATE STORM DRAINAGE SYSTEM AT TEMPORARY SEDIMENT TRAP DEVICES UNTIL SUCH DEVICES HAVE BEEN APPROVED FOR REMOVAL. ADDITIONAL MEASURES MAY BE REQUIRED BY THE INSPECTOR DUE TO THE ROUTING OF THE STORM DRAINAGE SYSTEM AND ACTUAL FIELD CONDITIONS.  
NOTE: SEDIMENT BASINS SHALL BE FUNCTIONAL THROUGHOUT GRADING AND EXCAVATING.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.  
NOTE: THE CONTRACTOR SHALL ENSURE THAT THE EROSION CONTROL DEVICES REMAIN UNDISTURBED DURING CONSTRUCTION OF THE BUILDING PADS AND ASSOCIATED PARKING/DRIVE AREAS ADJACENT TO THESE DEVICES UNTIL THE CONTRIBUTING UPSTREAM AREAS HAVE BEEN STABILIZED AND APPROVED.
- WHEN SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCING, SEDIMENT BASINS, ETC., AND SEED OUT OR PAVE ANY RESULTING BARE AREAS. CONNECT UPSTREAM STORM DRAINAGE.

#### GRADING/EROSION CONTROL NOTES

- ALL GRADING, BACKFILLING, EXCAVATION, ETC., SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORTS. REFER TO THESE REPORTS FOR ADDITIONAL INFORMATION NOT TRANSFERRED TO THESE PLANS.
- CONTRACTOR IS TO CONTACT NORTH CAROLINA "ONE CALL" AT 800-632-4949 FOR UNDERGROUND UTILITY LOCATION 48 HOURS PRIOR TO ANY DIGGING.
- THE EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY EARTHWORK.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
- ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED AND REPAIRED AT A MINIMUM OF WEEKLY BASIS AND AFTER EVERY RAIN EVENT.
- ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LOADED RUNOFF TO ANY STORM DRAINAGE SYSTEM.
- CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- PURSUANT TO G.S. 113A-57(2), THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PURSUANT TO G.S. 113A-57(3), PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- ALL CUT AND FILL SLOPES AND CHANNEL SIDESLOPES WHICH ARE NOT TO BE PAVED, SHALL BE SEEDING UNTIL A GOOD STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH: A. 100 LBS PER 1,000 SQUARE FOOT GROUND LIME/STONE OR EQUIVALENT. NO SOIL TEST REQUIRED FOR INITIAL ESTABLISHMENT.  
B. 20 LBS OF 10-10-10 FERTILIZER OR EQUIVALENT PER 1,000 SQUARE FOOT.  
C. VARIETIES TO BE SEEDING:  
1. SPRING SEEDING - MARCH 1 - APRIL 30; SPRING OATS 2.5 LBS PER 1,000 SQUARE FOOT.  
2. SUMMER SEEDING - MAY 1 - AUGUST 1; WEEPING LOVE GRASS AT 2 OZ PER SQUARE FOOT MIXED WITH 1 BUSHEL OF SANDHAT FOR UNIFORM SEEDING.  
3. ASPHALT MULCH 5 GALLONS PER 1,000 SQUARE FOOT. ALL SEEDING WILL BE MULCHED.
- SEE LANDSCAPE PLAN FOR PERMANENT SEEDING.
- ALL FINISHED SURFACES SHOULD SLOPE AWAY FROM BUILDING, TOWARDS DRAINAGE OUTLETS FOR POSITIVE DRAINAGE AND TO AVOID STANDING WATER.

#### TEMPORARY SEEDING IN NORTH CAROLINA

SEEDING MIXTURE	
SPECIES	RATE (lb/acre)
LATE WINTER & EARLY SPRING	120
RYE (GRAIN)	
ANNUAL LESPEDEZA (KOBÉ)	
IN PIEDMONT AND COASTAL PLAIN,	
KOREAN IN MOUNTAINS	50
SUMMER	40
OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUNDAGRASS	
FALL	120
RYE (GRAIN)	
IS NOT TO EXTEND BEYOND JUNE	
MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE	
SEEDING DATES:	
MOUNTAINS - ABOVE 2500 FT. FEB. 15 - MAY 15	
BELOW 2500 FT. FEB. 1 - MAY 1	
PIEDMONT - JAN. 1 - MAY 1	
COASTAL PLAIN - DEC. 1 - APR. 15	
SUMMER	
MOUNTAINS - MAY 15 - AUG. 15	
PIEDMONT - MAY 1 - AUG. 15	
COASTAL PLAIN - APR. 15 - AUG. 15	
FALL	
MOUNTAINS - AUG. 15 - DEC. 15	
COASTAL PLAIN AND PIEDMONT - AUG. 15 - DEC. 30	
SOIL AMENDMENTS	
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER	
MULCH	
APPLY 4,000 LBS/ACRE STRAW; ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.	
MAINTENANCE	
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.	

#### CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval

City of Raleigh Review Officer

REVISIONS		ROLESVILLE TRC COMMENTS	KL	DATE	DESCRIPTION	BY
1	2023-5-3					
1						

**COMMERCIAL SITE DESIGN**

A Samsbathek Company

(919) 948-8421 FAX: (919) 948-3741  
WWW.CSITDESIGN.COM

8872 CREEDMOOR ROAD  
RALEIGH, NORTH CAROLINA 27613

CLIENT:

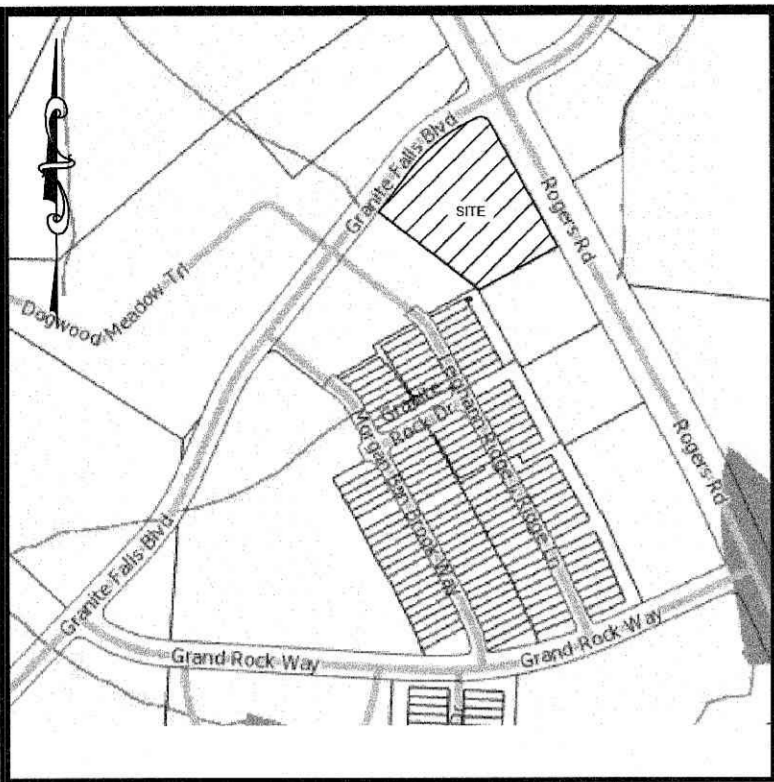
BULLARD RESTAURANT GROUP  
9131 ANSON WAY, # 305  
RALEIGH, NC 27615

PROPOSED RETAIL AND RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

EROSION CONTROL PLAN - PHASE I

PROJECT NO.	BUL-2103
FILENAME:	BUL2103-ECP
DRAWN BY:	RCN
SCALE:	1"= 20'
DATE:	12-06-2022
SHEET NO.	C-3

X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-GP.dwg, 5/30/2023 1:45:13 PM, chrisn



VICINITY MAP  
NTS

#### MAINTENANCE NOTES:

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED AND MAINTAINED DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. ANY SEDIMENT THAT HAS BEEN TRANSPORTED BEYOND THE PROJECT LIMITS SHALL BE REMOVED. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

**CONSTRUCTION ENTRANCE:**  
INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDING AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.

**SILT FENCE:**  
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

**SILT FENCE GRAVEL OUTLET:**  
INSTALL SILT FENCE GRAVEL OUTLETS AT ALL LOW POINTS IN FENCE. INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.

**OUTLET STABILIZATION STRUCTURE:**  
INSPECT RIP RAP STRUCTURES WEEKLY AND AFTER SIGNIFICANT (0.5 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLOADED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

**BLOCK AND GRAVEL INLET PROTECTION:**  
INSTALL BLOCK GRAVEL INLET PROTECTION AT ALL STORM STRUCTURES. INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

**DIVERSION DITCHES:**  
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL, TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

**SKIMMER BASIN:**  
INSPECT SKIMMER BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

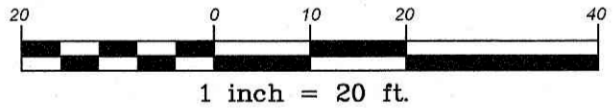
IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED. IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE TO REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

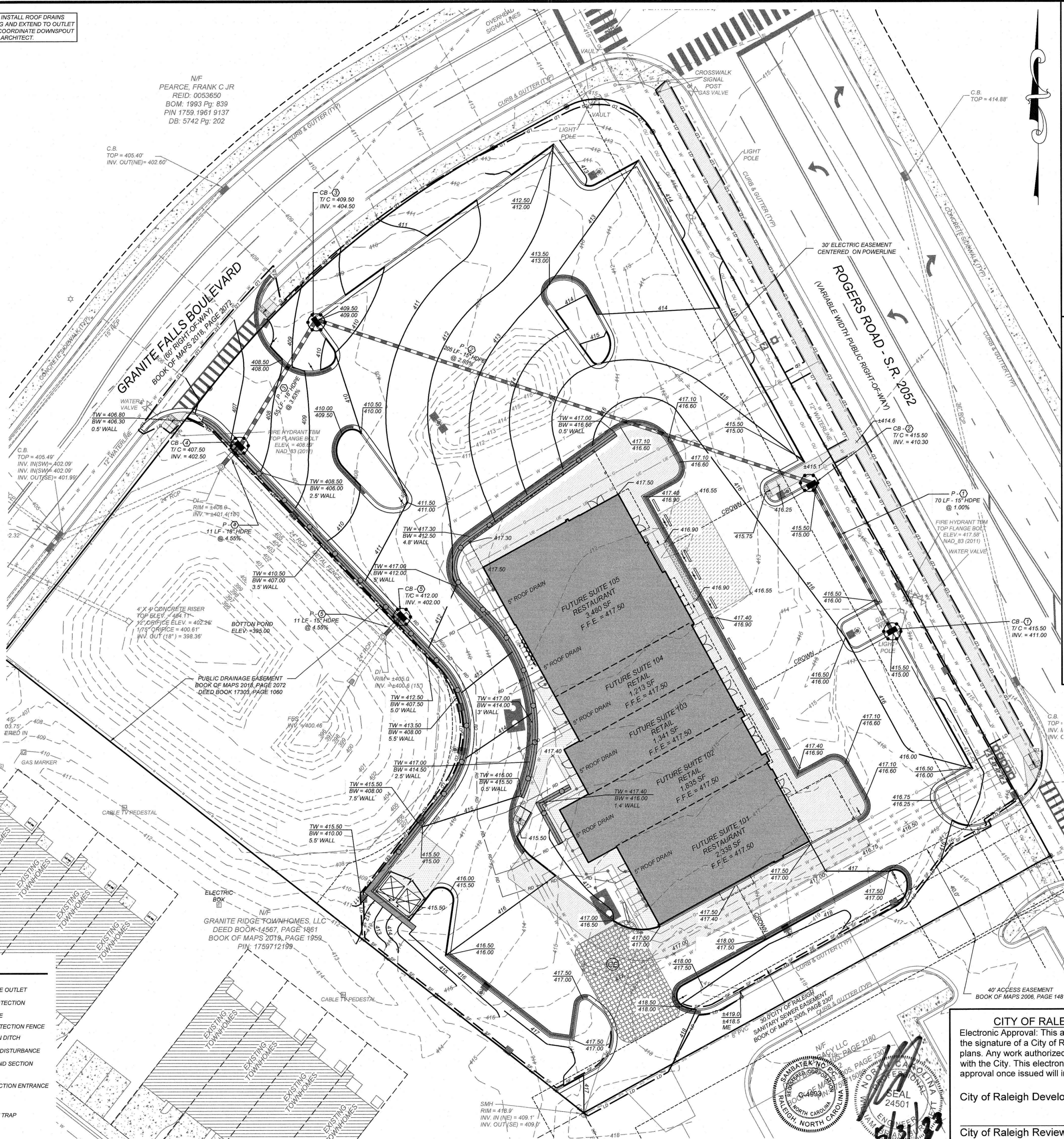
GRAPHIC SCALE



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nc811.org or 1-800-632-4949

#### GRADING/EROSION CONTROL LEGEND

■ DROP INLET	— SILT FENCE OUTLET
■ CURB INLET	○ INLET PROTECTION
— STORM PIPE	— SF — SILT FENCE
XXX-XX TOP OF CURB	— TP — TREE PROTECTION FENCE
XXX-XX BOTTOM OF CURB	— DIVERSION DITCH
— HANDICAP AREA (2% MAX. SLOPE)	— LD — LIMITS OF DISTURBANCE
— SPILL CURB	— FLARED END SECTION
TW-XXXXX GROUND AT TOP OF WALL	— CONSTRUCTION ENTRANCE
BW-XXXXX GROUND AT BOTTOM OF WALL	— SEDIMENT TRAP
■ INLINE DRAIN	
— ROOF DRAIN	
6" CORRUGATED PLASTIC	
1% MIN. SLOPE	
75% IN TRAFFIC AREAS	
CLEANOUTS LOCATED @ ALL BENDS	



#### CONSTRUCTION SEQUENCE:

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EROSION IS MINIMIZED AND THAT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES IS MAINTAINED THROUGHOUT EXECUTION OF THIS PROJECT.

##### PHASE I - SHEET C-3

- OBTAIN A LAND DISTURBING PERMIT. SCHEDULE A PRE-CONSTRUCTION MEETING.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT TRAPS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION. SEE DETAIL ON SEEDING SCHEDULE. CONTRACTOR SHALL BEGIN WITH SEDIMENT FENCING AND ALL OTHER SEDIMENT CONTAINMENT DEVICES FOLLOWED BY ALL DIVERSION AND BY-PASS DITCHES/BERMS.
- BEGIN CLEARING/GRUBBING AND GENERAL EXCAVATION ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHASE/STAGE EROSION CONTROL TO ALLOW FOR CONSTRUCTION. NOTE: CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION DEVICES AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES/SEDIMENT TRAPS UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.

##### PHASE II - SHEET C-4

- BEGIN INSTALLING UPSTREAM STORM DRAINAGE SYSTEM. INSTALL APPROVED INLET PROTECTION. TERMINATE STORM DRAINAGE SYSTEM AT TEMPORARY SEDIMENT TRAP DEVICES UNTIL SUCH DEVICES HAVE BEEN APPROVED FOR REMOVAL. ADDITIONAL MEASURES MAY BE REQUIRED BY THE INSPECTOR DUE TO THE ROUTING OF THE STORM DRAINAGE SYSTEM AND ACTUAL FIELD CONDITIONS. NOTE: SEDIMENT BASINS SHALL BE FUNCTIONAL THROUGHOUT GRADING AND EXCAVATING.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION. NOTE: THE CONTRACTOR SHALL ENSURE THAT THE EROSION CONTROL DEVICES REMAIN UNDISTURBED DURING CONSTRUCTION OF THE BUILDING PADS AND ASSOCIATED PARKING/DRIVE AREAS ADJACENT TO THESE DEVICES UNTIL THE CONTRIBUTING UPSTREAM AREAS HAVE BEEN STABILIZED AND APPROVED.
- WHEN SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCING, SEDIMENT BASINS, ETC., AND SEED OUT OR PAVE ANY RESULTING BARE AREAS. CONNECT UPSTREAM STORM DRAINAGE.

#### GRADING/EROSION CONTROL NOTES

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- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
- ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED AND REPAIRED AT A MINIMUM OF WEEKLY BASIS AND AFTER EVERY RAIN EVENT.
- ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
- CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- PURSUANT TO G.S. 113A-57(2), THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATELY MAINTAINED EROSION CONTROL DEVICES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PURSUANT TO G.S. 113A-57(3), PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- ALL CUT AND FILL SLOPES AND CHANNEL SIDESLOPES WHICH ARE NOT TO BE PAVED SHALL BE SEED UNTIL A GOOD STAND OF GRASS IS OBTAINED AND MAINTAINED UNTIL:  
A. 100 LBS PER 1,000 SQUARE FOOT GROUND LIMESTONE OR EQUIVALENT, NO SOIL TEST REQUIRED FOR INITIAL ESTABLISHMENT.  
B. 20 LBS OF 10-10-10 FERTILIZER OR EQUIVALENT PER 1,000 SQUARE FOOT.  
C. VARIETIES TO BE SEED:  
1. SPRING SEEDING - MARCH 1 - APRIL 30; SPRING OATS 2.5 LBS PER 1,000 SQUARE FOOT.  
2. SUMMER SEEDING - MAY 1 - AUGUST 1; WEEPING LOVE GRASS AT 2 OZ. PER SQUARE FOOT MIXED WITH 1 BUSH OF SAWDUST FOR UNIFORM SEEDING.  
3. ASPHALT MULCH 6 GALLONS PER 1,000 SQUARE FOOT. ALL SEEDING WILL BE MULCHED.  
D. SEE LANDSCAPE PLAN FOR PERMANENT SEEDING.
- ALL FINISHED SURFACES SHOULD SLOPE AWAY FROM BUILDING, TOWARDS DRAINAGE OUTLETS FOR POSITIVE DRAINAGE AND TO AVOID STANDING WATER.

#### TEMPORARY SEEDING IN NORTH CAROLINA

	SEEDING MIXTURE	RATE (lb/acre)
	SPECIES	
LATE WINTER & EARLY SPRING	RYE (GRAIN) ANNUAL LESPEDEZA (KOBE) IN PIEDMONT AND COSTAL PLAIN, KOREAN IN MOUNTAINS	120 50
SUMMER	GERMAN MILLET OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IN THE PIEDMONT AND MOUNTAINS. A SMALL-STEMMED SUNDAGRASS	40
FALL	RYE (GRAIN) DO NOT TO EXCEED BEYOND JUNE. MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE.	120
LATE WINTER & EARLY SPRING	SEEDING DATES: MOUNTAINS - ABOVE 2500 FT. FEB. 15 - MAY 15 PIEDMONT - JAN. 1 - MAY 1 COASTAL PLAIN - DEC. 1 - APR. 15	
SUMMER	MOUNTAINS - MAY 15 - AUG. 15 PIEDMONT - MAY 1 - AUG. 15 COASTAL PLAIN - APR. 15 - AUG. 15	
FALL	MOUNTAINS - AUG. 15 - DEC. 15 COASTAL PLAIN AND PIEDMONT - AUG. 15 - DEC. 30	

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER.

**MULCH**  
APPLY 4,000 LBS/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

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City of Raleigh Development Approval

City of Raleigh Review Officer

REVISIONS	ROLESVILLE TRC COMMENTS	DATE	DESCRIPTION
1	2023-5-3		

COMMERCIAL  
SITE DESIGN  
A Sambatsky Company  
(919) 848-4321 FAX: (919) 848-3741  
WWW.SITEDESIGN.COM



682 GREENMOOR ROAD  
RALEIGH, NORTH CAROLINA 27615

CLIENT:  
BULLARD RESTAURANT GROUP  
9331 ANSON WAY, # 305  
RALEIGH, NC 27615

PROPOSED RETAIL AND  
RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

#### GRADING/EROSION CONTROL PLAN - PHASE II

PROJECT NO.	BUL-2103
FILENAME	BUL2103-GP
DRAWN BY	RCN
SCALE	1" = 20'
DATE	12-06-2022
SHEET NO.	C-4



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

**EQUIPMENT AND VEHICLE MAINTENANCE**  
1. Maintain vehicles and equipment to prevent discharge of fluids.  
2. Provide drip pans under any stored equipment.  
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.  
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).  
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.  
6. 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**  
1. Never bury or burn waste. Place litter and debris in approved waste containers.  
2. Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.  
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.  
4. 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.  
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.  
6. Anchor all lightweight items in waste containers during times of high winds.  
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.  
8. Dispose waste off-site at an approved disposal facility.  
9. On business days, clean up and dispose of waste in designated waste containers.

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

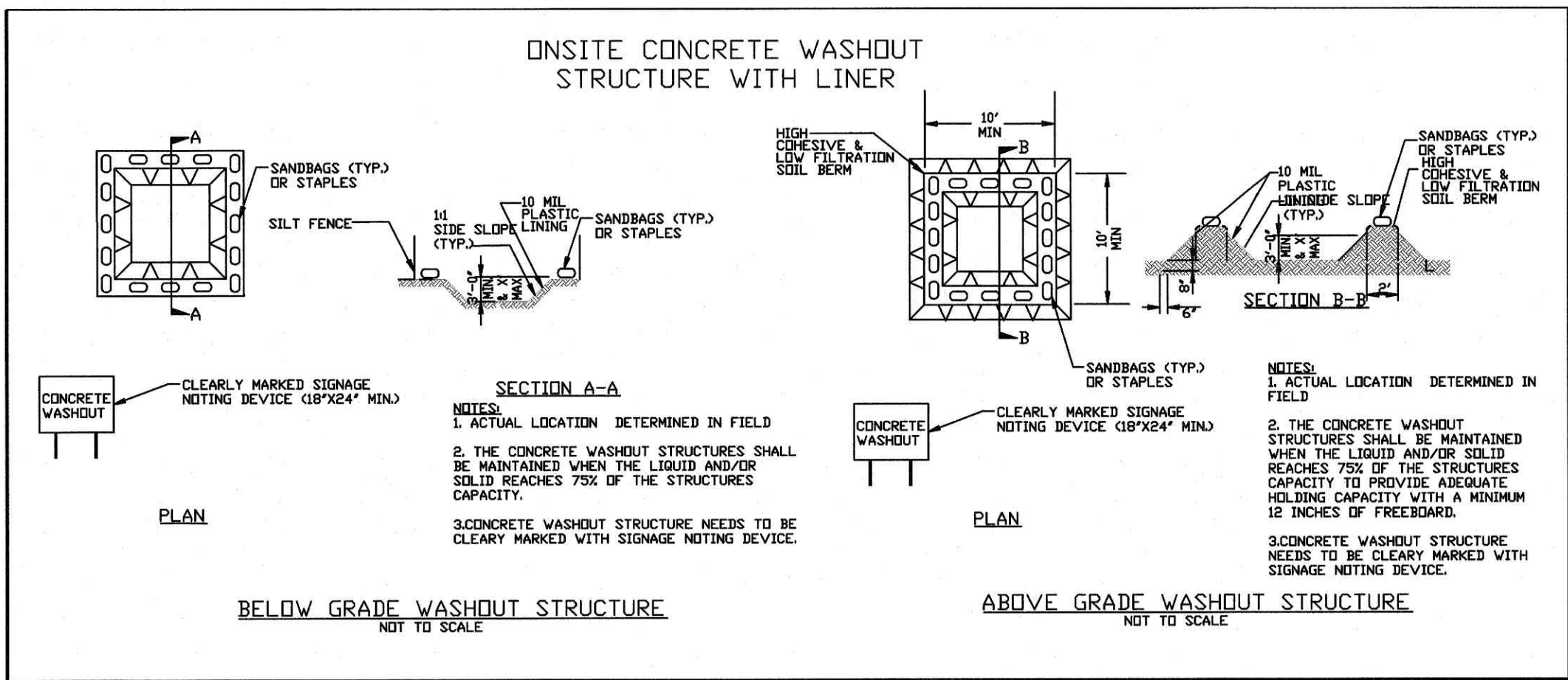
**PORTABLE TOILETS**  
1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.  
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.  
3. 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**  
1. 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.  
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.  
3. Provide stable stone access point when feasible.  
4. 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**  
1. Do not discharge concrete or cement slurry from the site.  
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.  
3. 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.  
4. 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.  
5. 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.  
6. 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.  
7. 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.  
8. 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.  
9. 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.  
10. 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**  
1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.  
2. 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.  
3. 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.  
4. Do not stockpile these materials onsite.

**HAZARDOUS AND TOXIC WASTE**  
1. Create designated hazardous waste collection areas on-site.  
2. Place hazardous waste containers under cover or in secondary containment.  
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.



## NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

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 $\geq 1.0$ 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 (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event $\geq 1.0$ 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 $\geq 1.0$ 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 $\geq 1.0$ 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	
<b>1. E&amp;SC Plan Documentation</b> 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 paining 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	
<b>1. Occurrences that Must be Reported</b> Permittees shall report the following occurrences: (a) Visible sediment deposition in a stream or wetland. (b) Oil spills if: <ul style="list-style-type: none"><li>They are 25 gallons or more,</li><li>They are less than 25 gallons but cannot be cleaned up within 24 hours,</li><li>They cause sheen on surface waters (regardless of volume), or</li><li>They are within 100 feet of surface waters (regardless of volume).</li></ul> (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.	
<b>2. Reporting Timeframes and Other Requirements</b> 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 NC 303(d) list 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 310-(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(i)(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(i)(6).</li><li>Division staff may waive the requirement for a written report on a case-by-case basis.</li></ul>

### PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items.  
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item 2(c) and (d) of this permit.  
(c) Dewatering discharges are treated with discharge traps to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems.  
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above.  
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and  
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

## NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

REVISIONS		ROLESVILLE TRC COMMENTS		NO		DATE		DESCRIPTION	
KL									
1	2023-5-3								

**COMMERCIAL SITE DESIGN**  
A Sambatek Company  
(919) 846-6321 FAX: (919) 846-6741  
WWW.SAMTEKDESIGN.COM

8875 CREEDMOOR ROAD  
RALEIGH, NORTH CAROLINA 27615

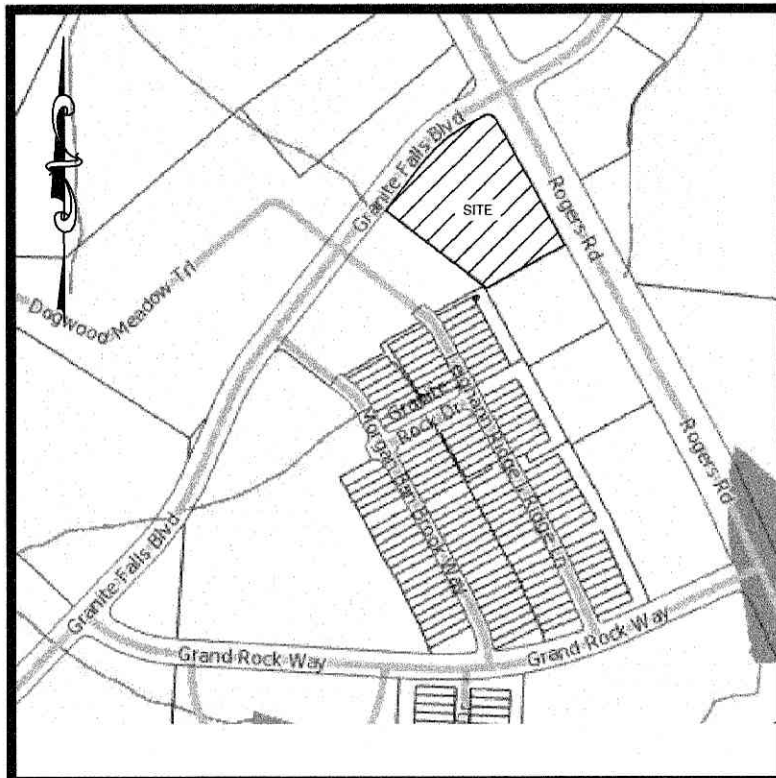
CLIENT:  
BULLARD RESTAURANT GROUP  
9137 ANSON WAY, # 305  
RALEIGH, NC 27615

PROPOSED RETAIL AND RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

NPDES DETAILS

PROJECT NO.	BUL-2103
FILENAME	BIS1807-NPDES2
DRAWN BY:	RCN
SCALE	N.T.S.
DATE	12-06-2022
SHEET NO.	C-6

X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-UP.dwg, 5/30/2023 1:50:11 PM, chrisn



**NOTE TO CONTRACTOR:**  
GENERAL CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES FOR VERIFICATION OF EXACT LOCATION AND DEPTH PRIOR TO ANY CONSTRUCTION.

UTILITY INFORMATION SHOWN IS A COMBINATION OF SURVEY AND COUNTY AS-BUILTS.



Know what's below.  
Call before you dig.  
nc811.org or 1-800-632-4949

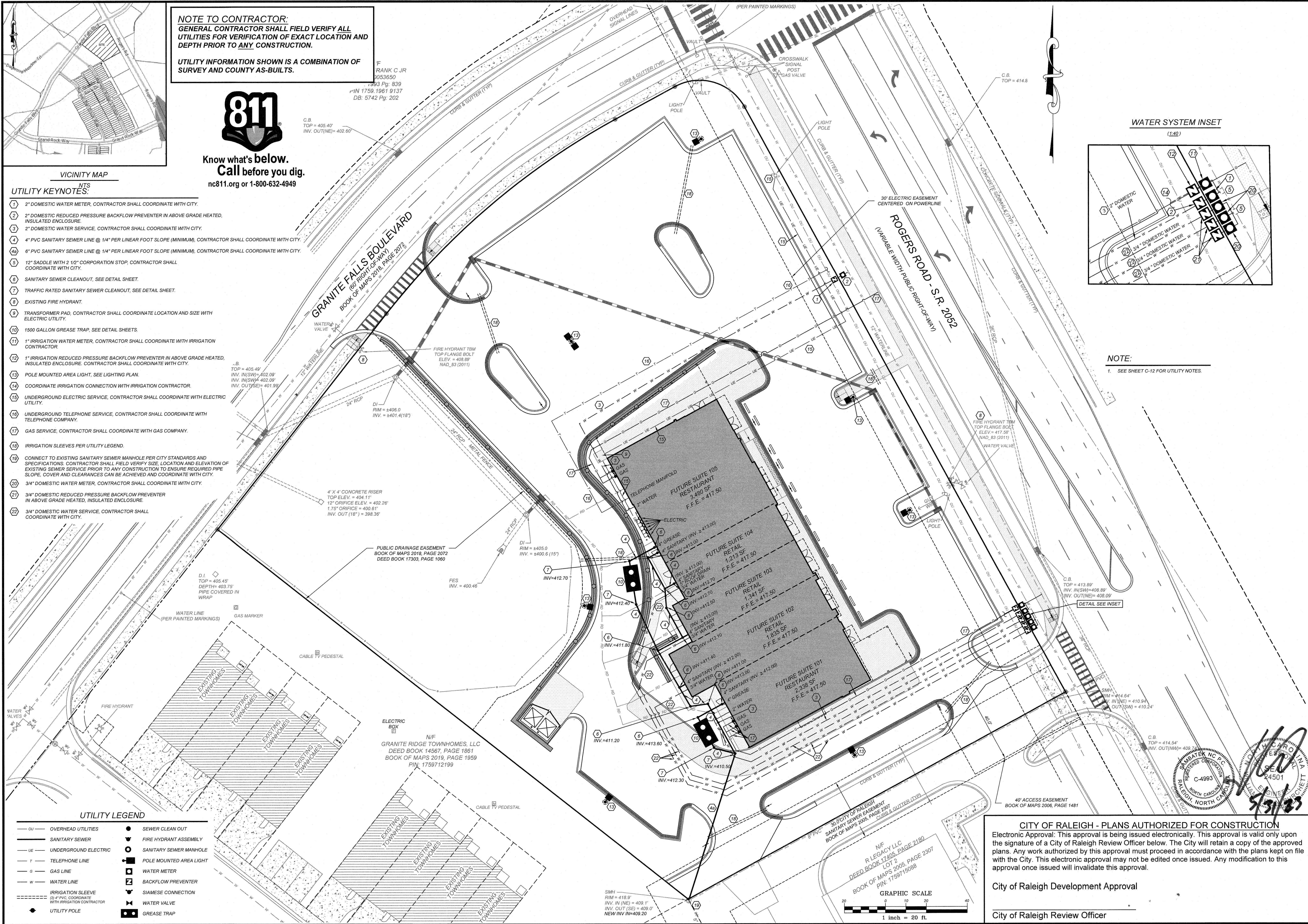
#### VICINITY MAP

#### UTILITY KEYNOTES:

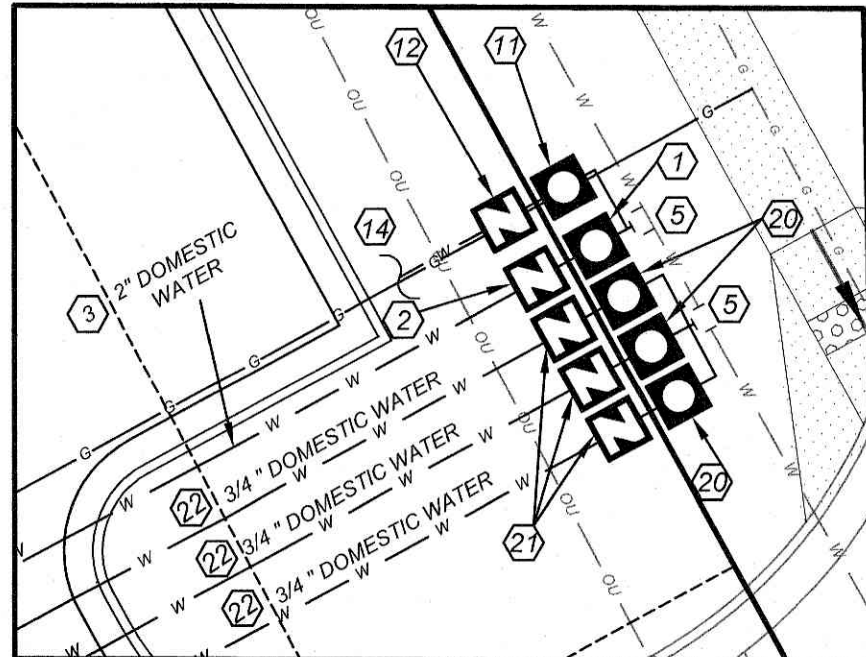
- 2" DOMESTIC WATER METER, CONTRACTOR SHALL COORDINATE WITH CITY.
- 2" DOMESTIC REDUCED PRESSURE BACKFLOW PREVENTER IN ABOVE GRADE HEATED, INSULATED ENCLOSURE.
- 2" DOMESTIC WATER SERVICE, CONTRACTOR SHALL COORDINATE WITH CITY.
- 4" PVC SANITARY SEWER LINE @ 1/4" PER LINEAR FOOT SLOPE (MINIMUM), CONTRACTOR SHALL COORDINATE WITH CITY.
- 6" PVC SANITARY SEWER LINE @ 1/4" PER LINEAR FOOT SLOPE (MINIMUM), CONTRACTOR SHALL COORDINATE WITH CITY.
- 12" SADDLE WITH 2 1/2" CORPORATION STOP, CONTRACTOR SHALL COORDINATE WITH CITY.
- SANITARY SEWER CLEANOUT, SEE DETAIL SHEET.
- TRAFFIC RATED SANITARY SEWER CLEANOUT, SEE DETAIL SHEET.
- EXISTING FIRE HYDRANT.
- TRANSFORMER PAD, CONTRACTOR SHALL COORDINATE LOCATION AND SIZE WITH ELECTRIC UTILITY.
- 1500 GALLON GREASE TRAP, SEE DETAIL SHEETS.
- 1" IRRIGATION WATER METER, CONTRACTOR SHALL COORDINATE WITH IRRIGATION CONTRACTOR.
- 1" IRRIGATION REDUCED PRESSURE BACKFLOW PREVENTER IN ABOVE GRADE HEATED, INSULATED ENCLOSURE, CONTRACTOR SHALL COORDINATE WITH CITY.
- POLE MOUNTED AREA LIGHT, SEE LIGHTING PLAN.
- COORDINATE IRRIGATION CONNECTION WITH IRRIGATION CONTRACTOR.
- UNDERGROUND ELECTRIC SERVICE, CONTRACTOR SHALL COORDINATE WITH ELECTRIC UTILITY.
- UNDERGROUND TELEPHONE SERVICE, CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY.
- GAS SERVICE, CONTRACTOR SHALL COORDINATE WITH GAS COMPANY.
- IRRIGATION SLEEVES PER UTILITY LEGEND.
- CONNECT TO EXISTING SANITARY SEWER MANHOLE PER CITY STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL FIELD VERIFY SIZE, LOCATION AND ELEVATION OF EXISTING SEWER SERVICE PRIOR TO ANY CONSTRUCTION TO ENSURE REQUIRED PIPE SLOPE, COVER AND CLEARANCES CAN BE ACHIEVED AND COORDINATE WITH CITY.
- 3/4" DOMESTIC WATER METER, CONTRACTOR SHALL COORDINATE WITH CITY.
- 3/4" DOMESTIC REDUCED PRESSURE BACKFLOW PREVENTER IN ABOVE GRADE HEATED, INSULATED ENCLOSURE.
- 3/4" DOMESTIC WATER SERVICE, CONTRACTOR SHALL COORDINATE WITH CITY.

#### UTILITY LEGEND

- |      |  |   |                         |
|------|--|---|-------------------------|
| —OU— | OVERHEAD UTILITIES                           | ● | SEWER CLEAN OUT         |
| —S—  | SANITARY SEWER                               | ● | FIRE HYDRANT ASSEMBLY   |
| —UE— | UNDERGROUND ELECTRIC                         | ● | SANITARY SEWER MANHOLE  |
| —T—  | TELEPHONE LINE                               | ● | POLE MOUNTED AREA LIGHT |
| —G—  | GAS LINE                                     | ● | WATER METER             |
| —W—  | WATER LINE                                   | ● | BACKFLOW PREVENTER      |
| —IR— | IRRIGATION SLEEVE                            | ● | SIAMESE CONNECTION      |
| —C—  | 2" PVC COORDINATE WITH IRRIGATION CONTRACTOR | ● | WATER VALVE             |
| ●    | UTILITY POLE                                 | ● | GREASE TRAP             |



#### WATER SYSTEM INSET



#### NOTE:

- SEE SHEET C-12 FOR UTILITY NOTES.

REVISIONS	KL	ROLESVILLE TRC COMMENTS	BY
1	2023-5-3		

NO.	DATE	DESCRIPTION

**COMMERCIAL SITE DESIGN**  
A Santelek Company  
(919) 846-6021 FAX: (919) 846-2741  
WWW.CSTDDESIGN.COM



8972 CREEDMOOR ROAD  
RALEIGH, NORTH CAROLINA 27619

**CLIENT:**  
BULLARD RESTAURANT GROUP  
9131 ANSON WAY, # 305  
RALEIGH, NC 27615

**PROPOSED RETAIL AND RESTAURANT DEVELOPMENT**  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

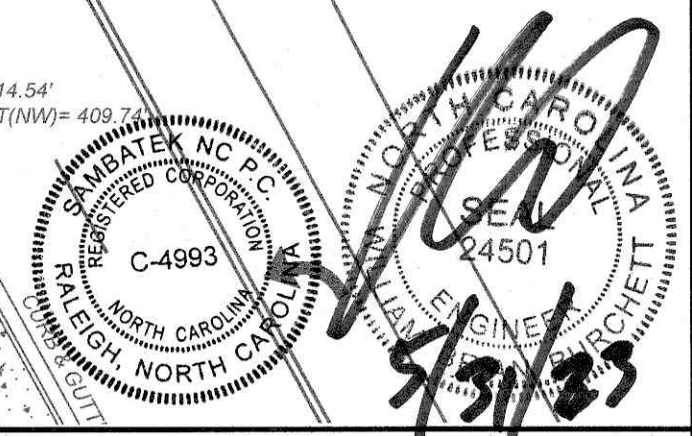
**UTILITY PLAN**

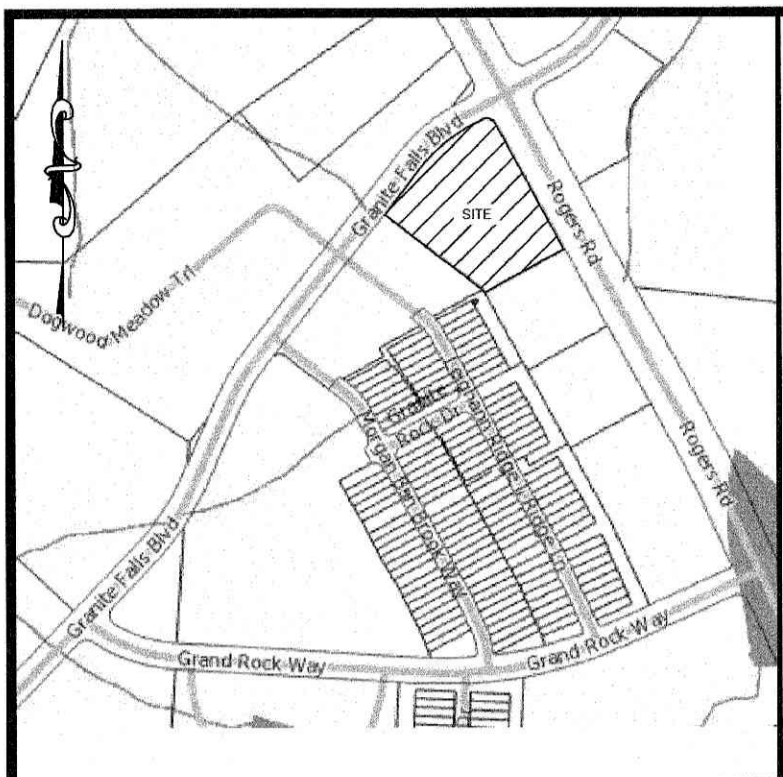
#### CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

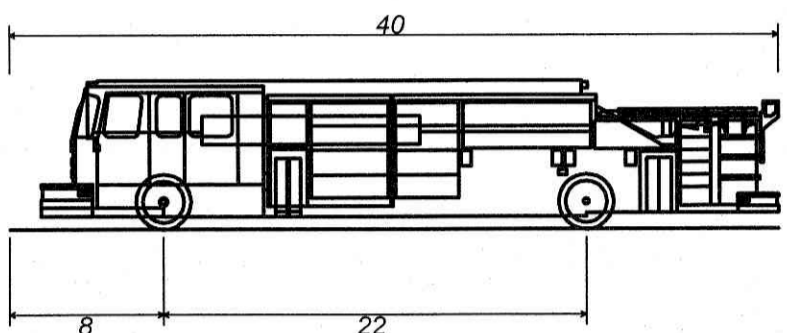
City of Raleigh Development Approval

City of Raleigh Review Officer





VICINITY MAP  
NTS



Fire Truck  
Overall Length  
Overall Width  
Overall Body Height  
Min Body Ground Clearance  
Track Width  
Lock-to-lock time  
Max Wheel Angle

40.000ft  
8.167ft  
7.745ft  
0.656ft  
8.167ft  
5.00s  
45.00°

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	BEARING	CHORD
C1	147.42'	365.00'	23.14°	S49°42'58"W	146.42'
C2	39.28'	25.00'	90.02°	N73°42'07"W	35.36'

REID: 0053650  
BOM: 1993 Pg: 839  
PIN 1759, 1961 9137  
DB: 5742 Pg: 202

GRANITE FALLS BOULEVARD  
BOOK OF MAPS 2018, PAGE 1912

PUBLIC DRAINAGE EASEMENT  
BOOK OF MAPS 2018, PAGE 2072  
DEED BOOK 17303, PAGE 1060

N/F  
GRANITE RIDGE TOWNHOMES, LLC  
DEED BOOK 14567, PAGE 1861  
BOOK OF MAPS 2019, PAGE 1959  
PIN: 1759712199

N/F  
R LEGACY LLC  
DEED BOOK 17405, PAGE 2180  
BOOK OF MAPS 2005, PAGE 2307  
PIN: 1759715088



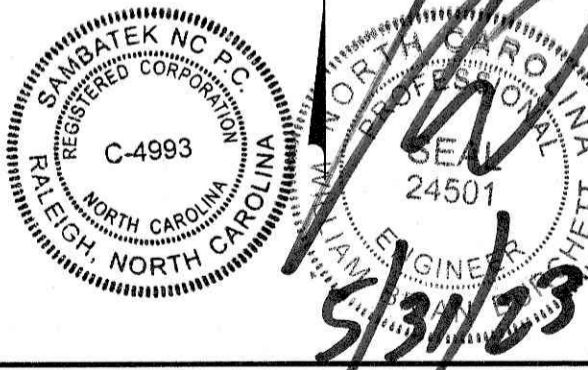
Know what's below.  
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nc811.org or 1-800-632-4949

SITE LEGEND

- SPILL CURB
- HANDICAP RAMP
- HANDICAP STALL
- PROPOSED CONCRETE
- EXISTING CONCRETE
- PROPERTY LINE
- SIGN
- BOLLARD
- EX. FIRE HYDRANT
- FENCE
- POLE MOUNTED AREA LIGHT
- PROPERTY CORNER
- FINISH FLOOR ELEVATION

GRAPHIC SCALE

1 inch = 20 ft.



**CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION**  
Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval

City of Raleigh Review Officer

REVISIONS			
KL	2023-5-3	ROLESVILLE TRC COMMENTS	
1			

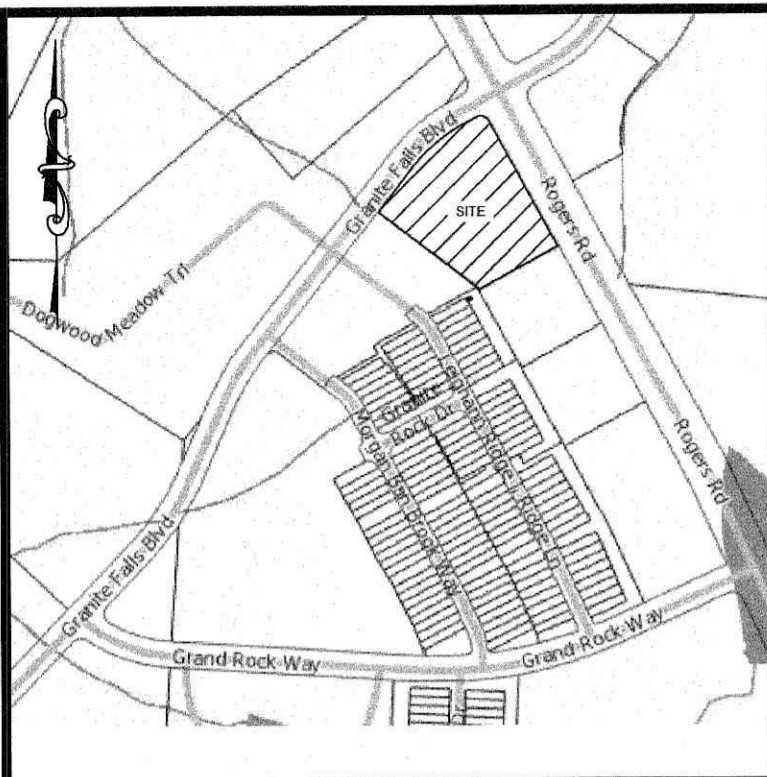
**COMMERCIAL SITE DESIGN**  
A Sambatek Company  
(919) 848-6121, FAX: (919) 848-7741  
WWW.CSDESIGN.COM

8812 CREEDMOOR ROAD  
RALEIGH, NORTH CAROLINA 27663

CLIENT:  
BULLARD RESTAURANT GROUP  
9131 ANSON WAY, # 305  
RALEIGH, NC 27615

PROPOSED RETAIL AND RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA  
FIRE TRUCK TURN PLAN

PROJECT NO.	BUL-2103
FILENAME:	BUL2103-TT
DRAWN BY:	RCN
SCALE:	1" = 20'
DATE:	12-06-2022
SHEET NO.	C-7a



VICINITY MAP  
NTS

**TURF NOTES:**

- CHISEL, COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- RIP ENTIRE AREA TO 6 INCHES IN DEPTH.
- 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 BELOW).
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 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 OVER 60% DAMAGED, RE-ESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

\*APPLY: 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 @ 300 GALS/ACRE

SOD PREPARATION:  
FOLLOW PREPARATION AS DIRECTED FOR STEPS 1-5 ABOVE, IMMEDIATELY WATER SOD UPON INSTALLATION AND CONTINUE UNTIL ROOTS ARE ESTABLISHED.

- CONTRACTOR SHALL WATER AND MAINTAIN ALL LAWN AREAS UNTIL AN ACCEPTABLE STAND OF GRASS HAS BEEN ESTABLISHED.
- ONCE AN ACCEPTABLE STAND OF GRASS HAS BEEN ESTABLISHED, THE CONTRACTOR SHALL REPAIR ALL DAMAGED AREAS AND MONITOR THE LAWN AREAS UNTIL THE GRASS REACHES A HEIGHT OF 4 INCHES TALL.
- AT THE TIME THE GRASS REACHES A HEIGHT OF 4 INCHES TALL, THE CONTRACTOR SHALL MOW THE GRASS TO THE HEIGHT OF 3 INCHES AND TURN OVER THE LAWN MAINTENANCE TO THE OWNER.
- AN ACCEPTABLE STAND OF GRASS SHALL BE 92% COVERAGE OR BETTER.

**LANDSCAPE NOTES:**

- THE GENERAL CONTRACTOR SHALL LEAVE THIS SITE AT FINISHED GRADE. THE LANDSCAPE CONTRACTOR SHALL REVISE GRADES AT A MINIMUM TO ENSURE SMOOTH TRANSITIONS BETWEEN PLANTING BEDS AND LAWN AREAS.
- PLANT GUARANTEE: ALL PLANTS SHALL BE GUARANTEED TO LIVE FOR TWELVE MONTHS. THE GUARANTEE SHALL COMMENCE UPON FINAL ACCEPTANCE OF THE PROJECT. IF ANY PLANTS ARE DEAD OR IN AN UNHEALTHY CONDITION BEFORE FINAL ACCEPTANCE, THE LANDSCAPE CONTRACTOR SHALL REPLACE THEM AT HIS EXPENSE. THIS REPLACEMENT SHALL NOT BE CONSIDERED A GUARANTEED REPLACEMENT.
- ALL PLANTING SHALL BE PLACED WITHIN A MULCHED PLANTING BED AND ALL STRAPPING AND THE TOP 20" OF WIRE BASKETS MUST BE CUT AWAY AND REMOVED FROM ROOT BALLS PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/4" OF BURLAP FROM ROOT BALL.
- ALL LANDSCAPE WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY STANDARD DETAILS AND SPECIFICATIONS.
- ALL AREAS NOT MULCHED SHALL BE SEEDED OR SODDED IN ACCORDANCE WITH THE AREA SPECIFIED ON PLANS WITH "REBEL II" HYBRID TALL FESCUE OR EQUIVALENT AS PRESCRIBED IN THE SCHEDULING SCHEDULE AS SHOWN ON THIS SHEET.
- SITE LIGHTING SHALL NOT BE PLACED IN CONFLICT WITH PLANTED TREES.
- TREE PROTECTION FENCING TO BE PROVIDED AROUND TREE PRESERVATION AREAS IN ACCORDANCE WITH CITY STANDARDS.
- COORDINATE ALL WORK WITH SITE LAYOUT AND SITE GRADING, DRAINAGE & UTILITIES PLAN.
- VERIFY LOCATION OF UTILITIES BEFORE PLANTING.
- MULCH ALL AREAS, THAT ARE NOT SEEDED OR SODDED, WITH SHREDDED HARDWOOD MULCH TO A DEPTH OF 3"-4".
- THE SELECTION AND INSTALLATION OF PLANTS AND PLANTING METHODS SHALL CONFORM WITH THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN OR THE CITY STANDARD DETAILS AND SPECIFICATIONS, WHICHEVER IS STRICTER.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES. DRAWINGS SHALL RULE OVER PLANT LISTS.
- SUBSTITUTIONS SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL, PRIOR TO INSTALLATION. SUBSTITUTIONS MAY REQUIRE ADDITIONAL APPROVAL BY THE GOVERNING JURISDICTION.
- ALL LANDSCAPING SOIL AND FILL SHALL BE FREE FROM WEEDS, REFUSE, AND DEBRIS AT ALL TIMES.
- TREES AND LARGE SHRUBS SHALL BE ADEQUATELY SUPPORTED, AS NECESSARY, USING STAKES AND GUYS. SUCH SUPPORTS SHALL BE DESIGNED SO AS TO PROTECT TREES AND SHRUBS FROM INJURY. TREES AND SHRUBS SHALL BE FASTENED TO THE SUPPORT WITH AN ACCEPTABLE COMMERCIAL TREE TIE OF PLASTIC OR HOSE COVERED WIRE.
- THE MAXIMUM GROWTH HEIGHT OF ANY LANDSCAPING WITHIN THE SIGHT TRIANGLE SHALL BE THREE (3) FEET IN HEIGHT.

**LANDSCAPE REQUIREMENTS:**

STREET YARD BUFFER:

1. Small trees shall be located under overhead power lines. Such small trees shall be at least one and one-half inches in caliper at the time of installation and two such trees shall be installed or maintained for every 40 linear feet of streetscape, rather than one larger tree per 40 feet required above.

2. One street tree of at least two and one-half inches in caliper

REQUIRED: PROPOSED:  
CANOPY TREES (219 FT): 6 (10)  
SMALL TREES (337 FT): 17 (18)

SCREENING BUFFER:

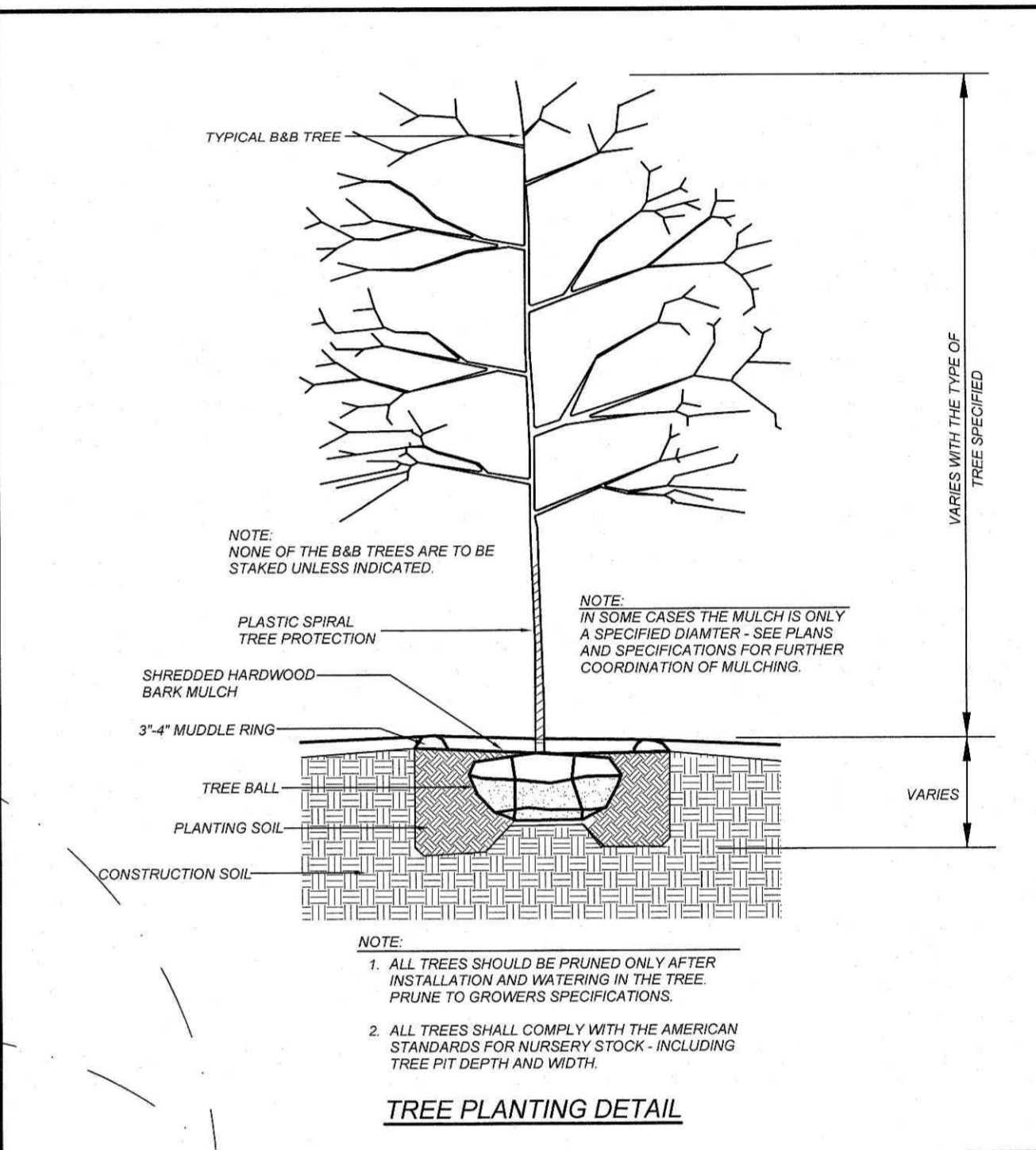
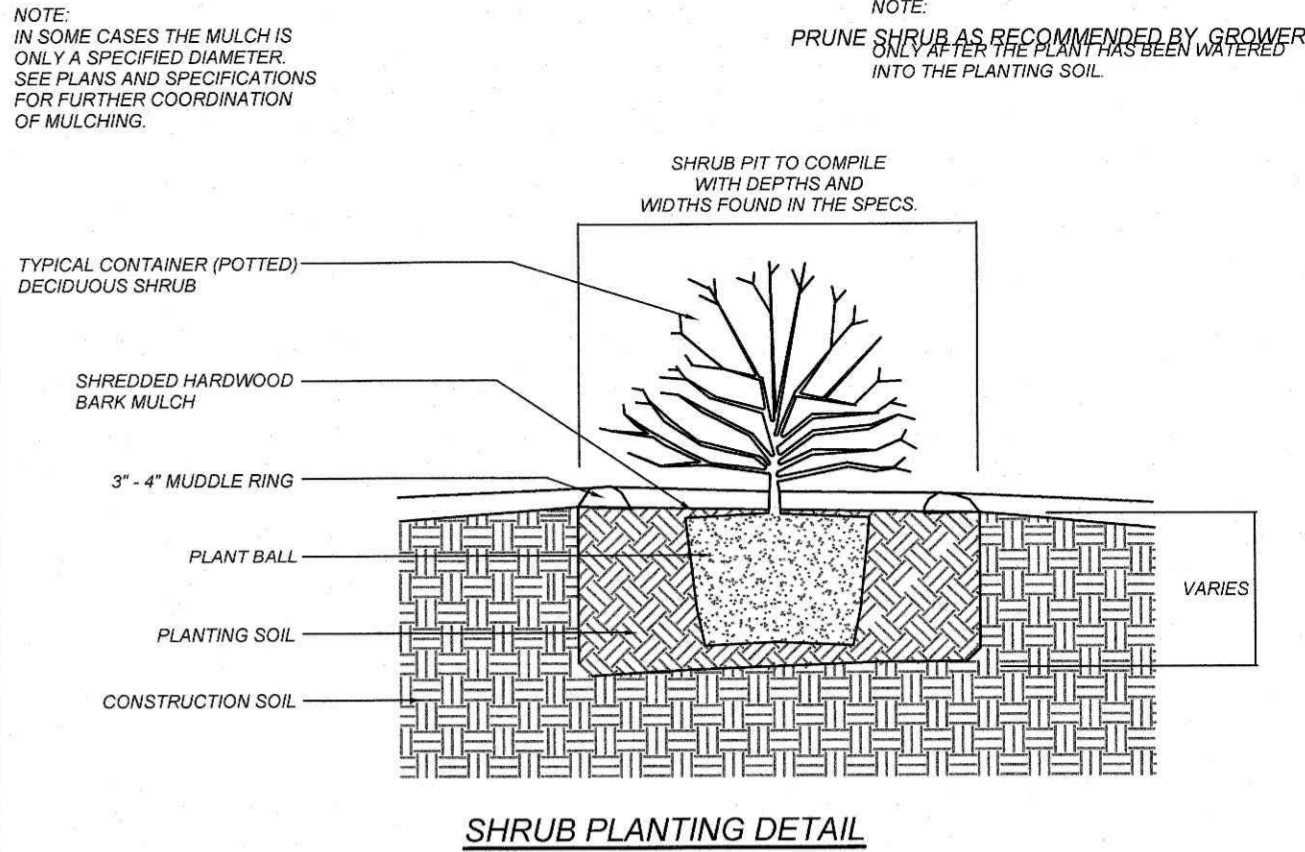
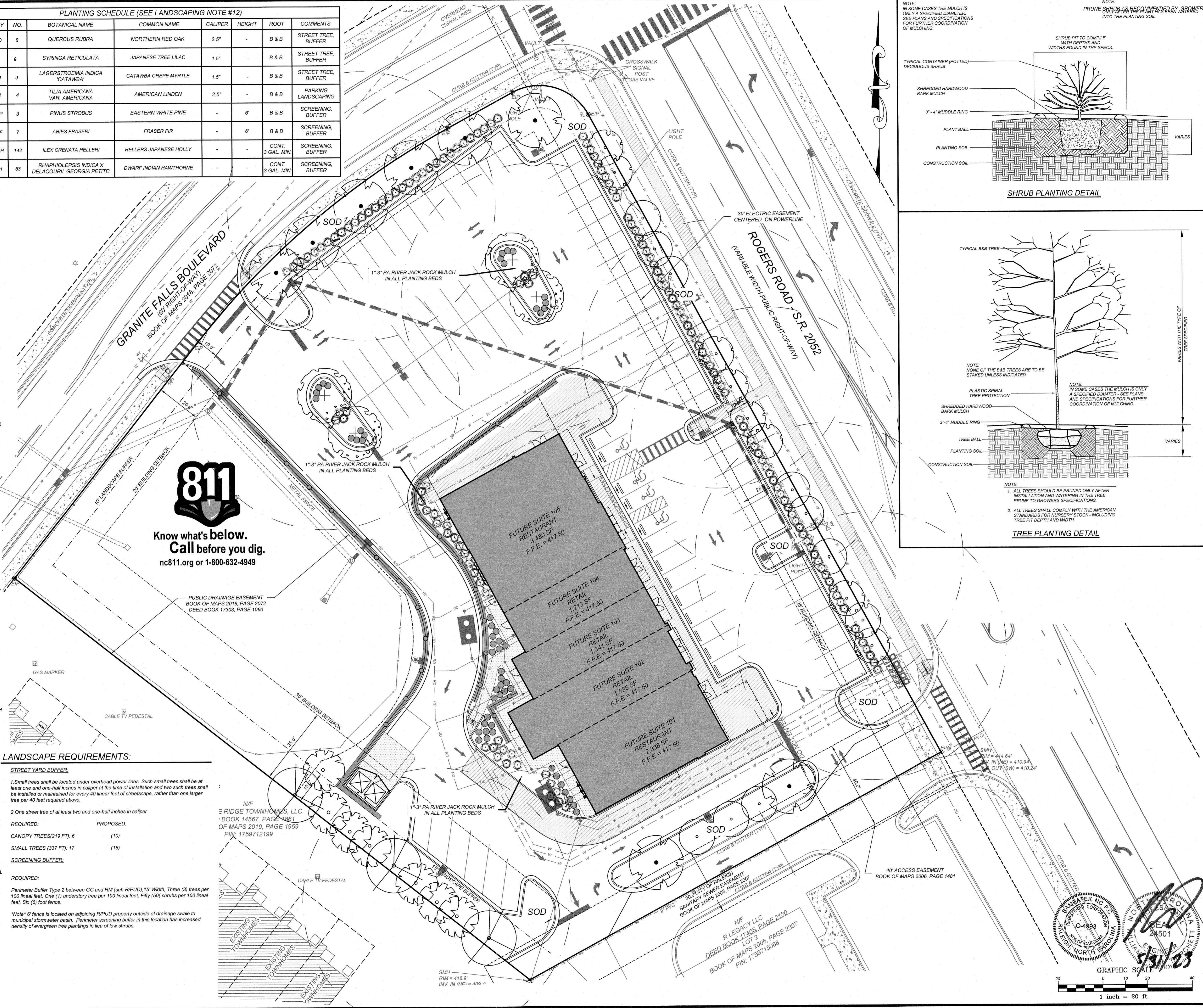
REQUIRED:

Perimeter Buffer Type 2 between GC and RM (sub R/PUD), 15' Width, Three (3) trees per 100 linear feet, One (1) understory tree per 100 linear feet, Fifty (50) shrubs per 100 linear feet, Six (6) foot fence.

\*Note: 6' fence is located on adjoining R/PUD property outside of drainage swale to municipal stormwater basin. Perimeter screening buffer in this location has increased density of evergreen tree plantings in lieu of low shrubs.

PLANTING SCHEDULE (SEE LANDSCAPING NOTE #12)							
SYMBOL	KEY	NO.	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	ROOT
	RO	8	QUERCUS RUBRA	NORTHERN RED OAK	2.5"	-	B & B
	JL	9	SYRINGA RETICULATA	JAPANESE TREE LILAC	1.5"	-	B & B
	CM	9	LAGERSTROEMIA INDICA 'CATAWBA'	CATAWBA CREPE MYRTLE	1.5"	-	B & B
	TA	4	TILIA AMERICANA VAR. AMERICANA	AMERICAN LINDEN	2.5"	-	B & B
	WP	3	PINUS STROBUS	EASTERN WHITE PINE	-	6'	B & B
	FF	7	ABIES FRASERI	FRASER FIR	-	6'	B & B
	ICH	142	ILEX CRENATA HELLERI	HELLERS JAPANESE HOLLY	-	-	CONT. 3 GAL. MIN.
	IH	53	RHAPHIOLEPSIS INDICA X DELACOURII 'GEORGIA PETITE'	DWARF INDIAN HAWTHORNE	-	-	CONT. 3 GAL. MIN.

**811**  
Know what's below.  
Call before you dig.  
nc811.org or 1-800-632-4949



REVISIONS		ROLESVILLE TRC COMMENTS		NO.		DATE		DESCRIPTION	
1	2023-5-3								

**COMMERCIAL SITE DESIGN**  
A Sambaek Company  
(919) 848-8201 FAX: (919) 848-2701  
WWW.CSITDESIGN.COM

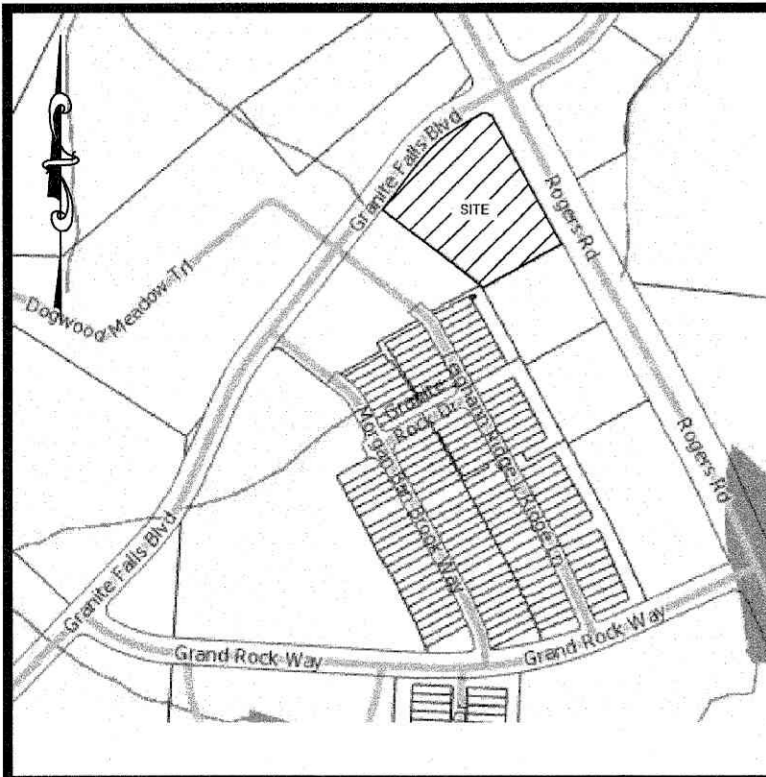
897 GREENWOOD ROAD  
RALEIGH, NORTH CAROLINA 27603

**CLIENT:**  
BULLARD RESTAURANT GROUP  
9131 ANSON WAY, # 305  
RALEIGH, NC 27615

**PROPOSED RETAIL AND RESTAURANT DEVELOPMENT**  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

**LANDSCAPE PLAN**

PROJECT NO: BUL-2103  
FILENAME: BUL2103-LS  
DRAWN BY: RCN  
SCALE: 1" = 20'  
DATE: 12-06-2022  
SHEET NO: C-8



VICINITY MAP  
NTS

PHOTOMETRIC EVALUATION  
NOT FOR CONSTRUCTION

BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE THE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

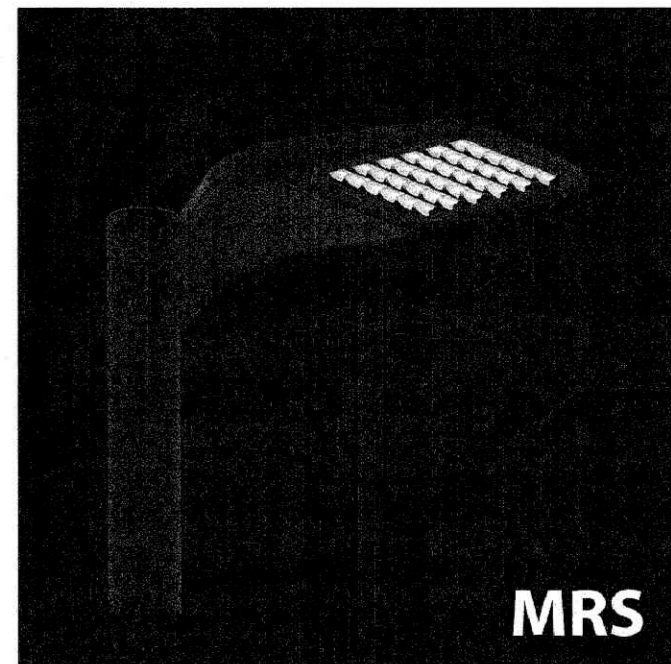
THIS LIGHTING PLAN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY (IES) APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRES MAY VARY DUE TO CHANGES IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMP/LED'S AND OTHER VARIABLE FIELD CONDITIONS. CALCULATIONS DO NOT INCLUDE OBSTRUCTIONS SUCH AS BUILDINGS, CURBS, LANDSCAPING, OR ANY OTHER ARCHITECTURAL ELEMENTS UNLESS NOTED. FIGURE NOMENCLATURE NOTED DOES NOT INCLUDE MOUNTING HARDWARE OR POLES. THIS DRAWING IS FOR PHOTOMETRIC EVALUATION PURPOSES ONLY AND SHOULD NOT BE USED AS A CONSTRUCTION DOCUMENT OR AS A FINAL DOCUMENT FOR ORDERING PRODUCT.

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Mounting Height	LLD	LLF	Arr. Lum. Lumens	Arr. Watts
	6	A	Single	MRS-LED-24L-SIL-FT-50-70CRI-SINGLE	24' POLE+3' BASE	1.000	1.000	22581	196
	1	B	D180°	MRS-LED-24L-SIL-5W-50-70CRI-D180	24' POLE+3' BASE	1.000	1.000	45044	392

PLEASE CONTACT SHANNON & ASSOCIATES FOR PRICING AT (704) 640-6134 OR T.FULTON@SHANNONANDASSOC.COM

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CALCULATION POINTS @ GRADE	Illuminance	Fc	0.89	5.4	0.0	N.A.	N.A.
PARKING & DRIVING SUMMARY	Illuminance	Fc	2.78	5.4	0.9	3.09	6.00

CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	BEARING	CHORD	TANGENT



MRS

10000 ALLIANCE RD. CINCINNATI, OHIO 45240 USA  
(513) 750-3000 FAX (513) 704-0057

**LIGHTING PROPOSAL** LO-157444

Strip Center  
Granite Falls Rd & Rogers Rd  
Roelsville, NC

BY: SAM DATE: 2/14/23 REV: SHEET 1 OF 1

REVISIONS		ROLESVILLE TRC COMMENTS	
KL			
1	2023-5-3		

NO.	DATE	DESCRIPTION

**COMMERCIAL  
SITE DESIGN**

A Santelek Company  
(919) 848-6021 FAX: (919) 848-7741  
WWW.CSTIDESIGN.COM

8812 CREEDMOOR ROAD  
RALEIGH, NORTH CAROLINA 27615

**CLIENT:**

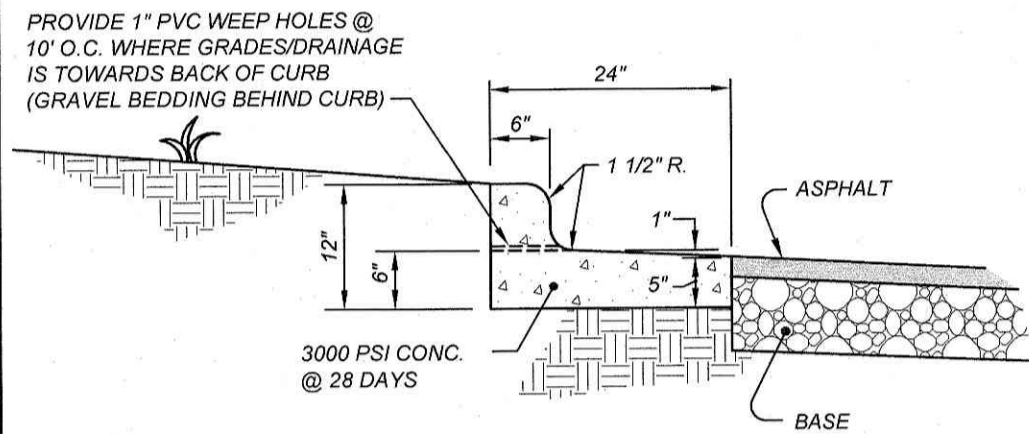
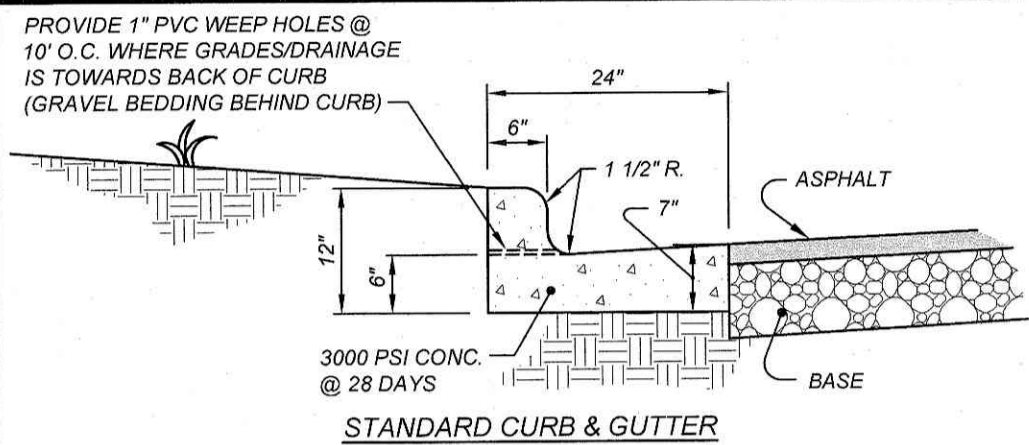
BULLARD RESTAURANT GROUP  
9131 ANSON WAY, # 305  
RALEIGH, NC 27615

**PROPOSED RETAIL AND  
RESTAURANT DEVELOPMENT**  
6000 ROGERS ROAD  
RALEIGH, NORTH CAROLINA

**LIGHTING PLAN**

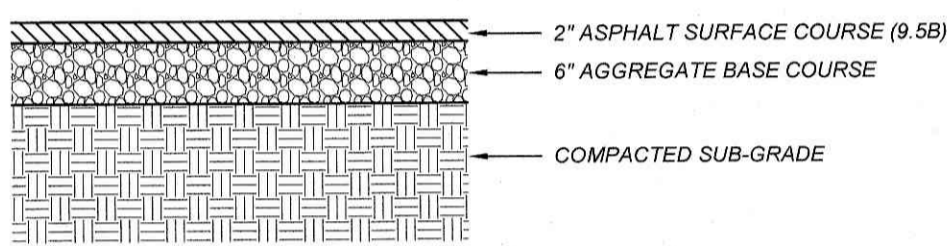
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FILENAME: BUL2103-LJ  
DRAWN BY: RCN  
SCALE: 1" = 20'  
DATE: 12-06-2022  
SHEET NO: C-9

X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-DTL1.dwg, 5/30/2023 1:53:29 PM, chrisn

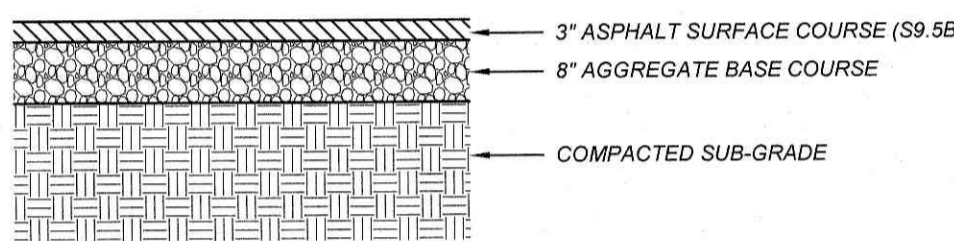


- NOTES:
1. SCORE CURB / VALLEY GUTTER AT 15' O.C.
  2. PROVIDE 1/2" EXPANSION JOINTS AT 90' O.C.
  3. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS. (A 15' SPACING WILL BE ALLOWED WHEN A MACHINE IS USED.)
  4. FINISH ALL CONCRETE WITH CURING COMPOUND.

#### 2'-0" STANDARD CURB AND GUTTER



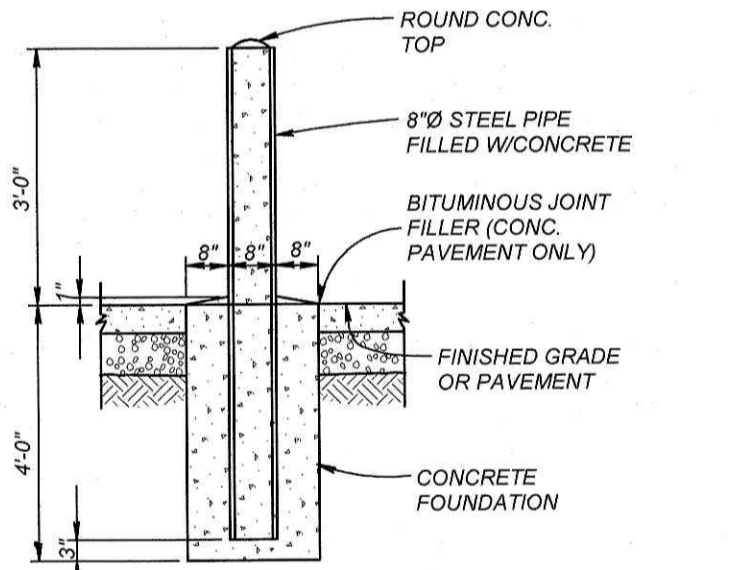
#### PARKING STALL ASPHALT PAVEMENT



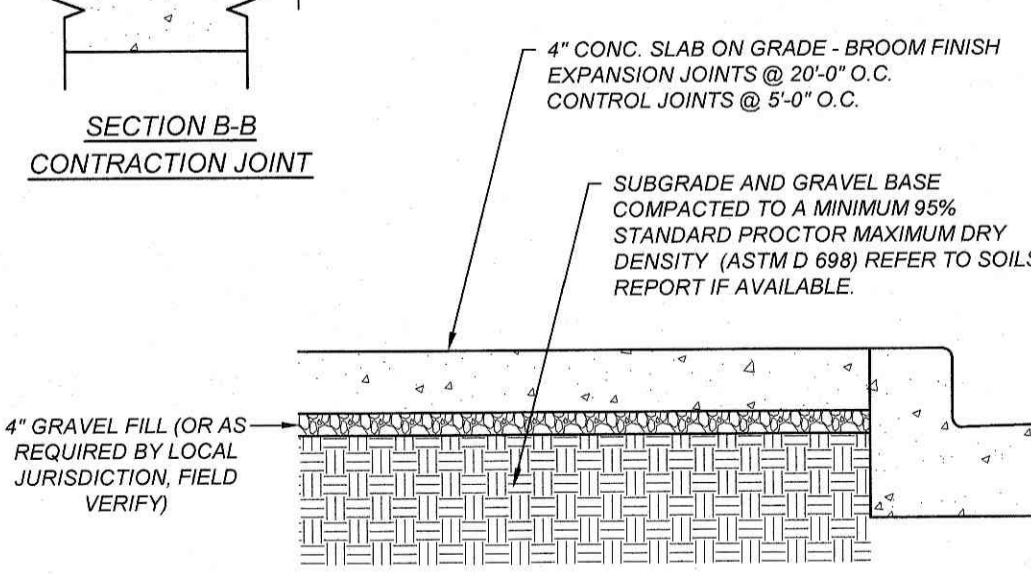
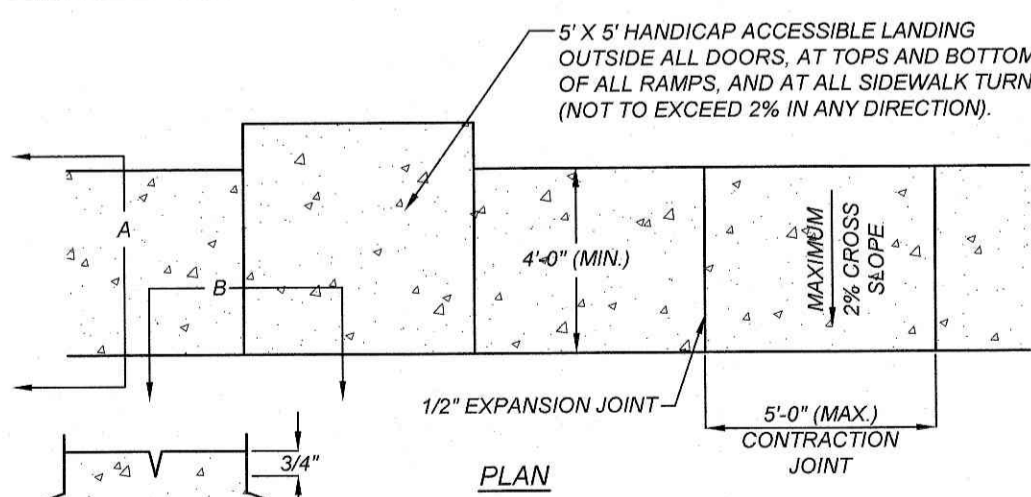
#### TRAFFIC AISLE ASPHALT PAVEMENT

- NOTES:
1. CONTRACTOR SHALL OBTAIN SOILS REPORT PREPARED BY ECS SOUTHEAST, LP, PROJECT # 06-24897, DATED AUGUST 17, 2022.
  2. CONTRACTOR SHALL PLACE BINDER COURSE DURING CONSTRUCTION, THEN PLACE SURFACE COURSE AFTER BUILDING AND SITE CONSTRUCTION.
  3. SUBGRADE COMPACTED TO A MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) REFER TO SOILS REPORT IN NOTE ABOVE.

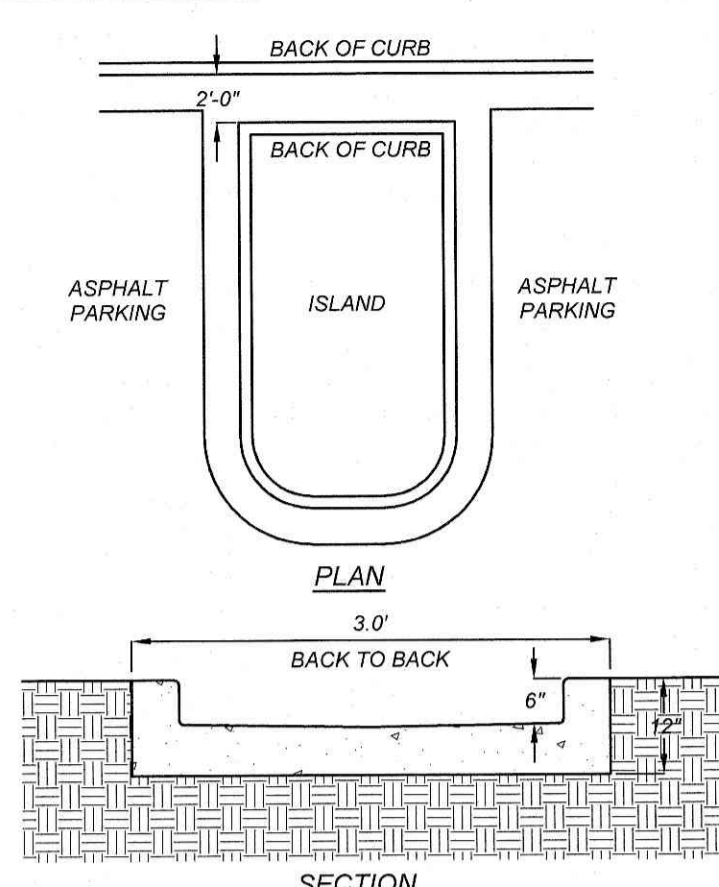
#### ASPHALT PAVEMENT DETAIL



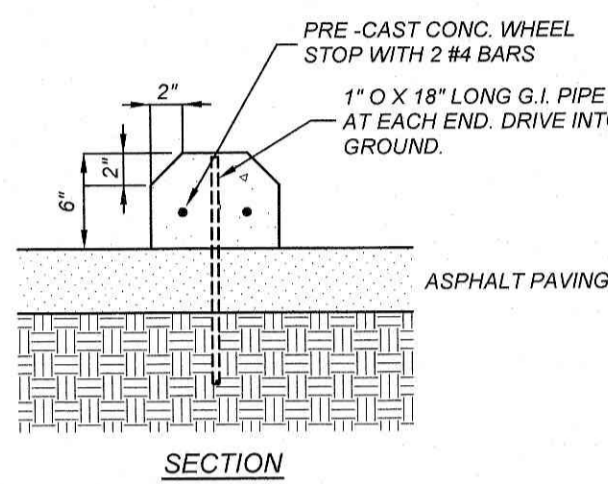
#### CONCRETE BOLLARD



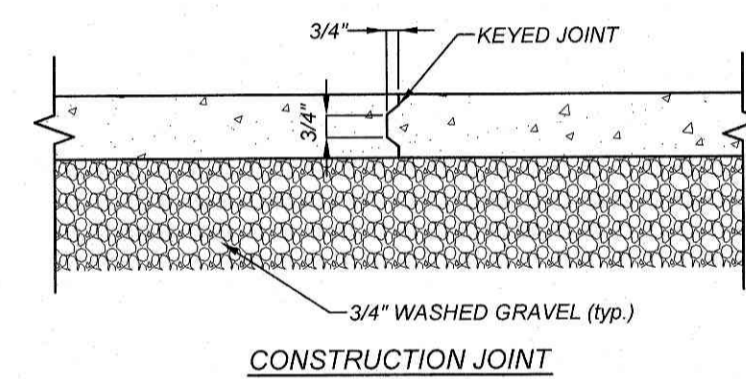
#### CONCRETE SIDEWALK



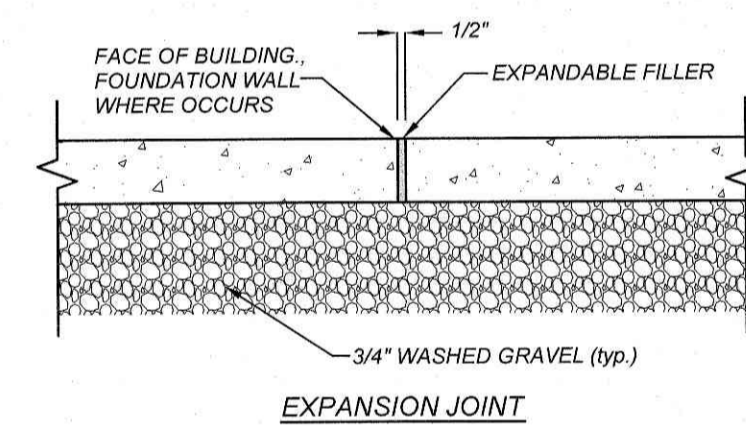
#### CONCRETE FLUME



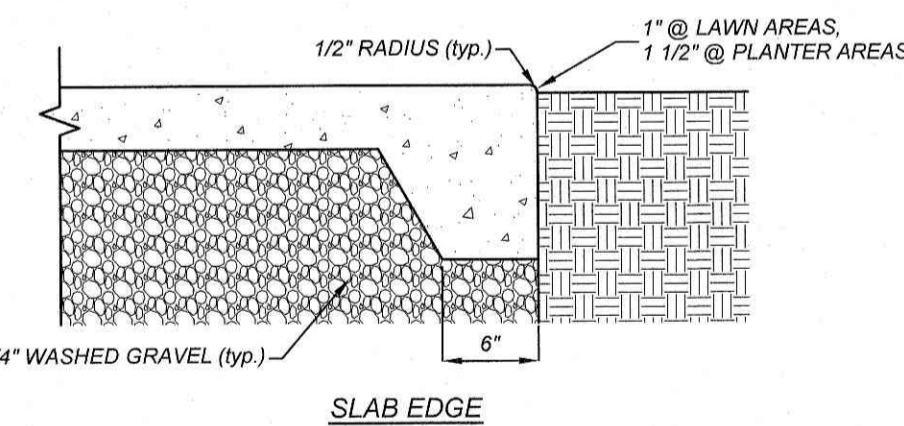
#### CONCRETE WHEEL STOP



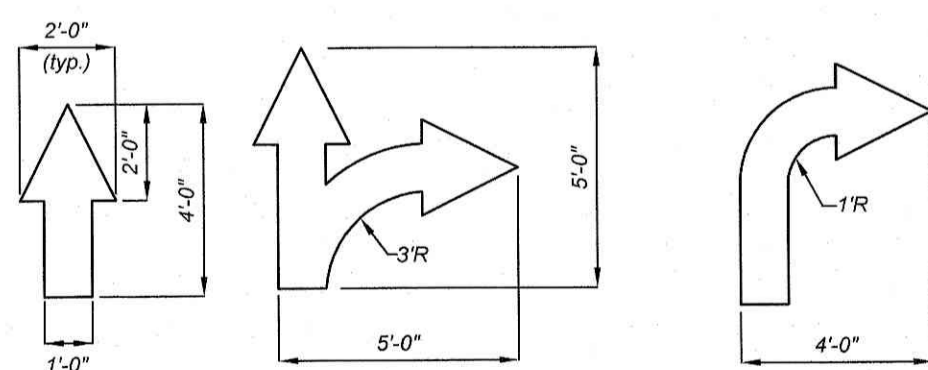
#### CONSTRUCTION JOINT



#### EXPANSION JOINT

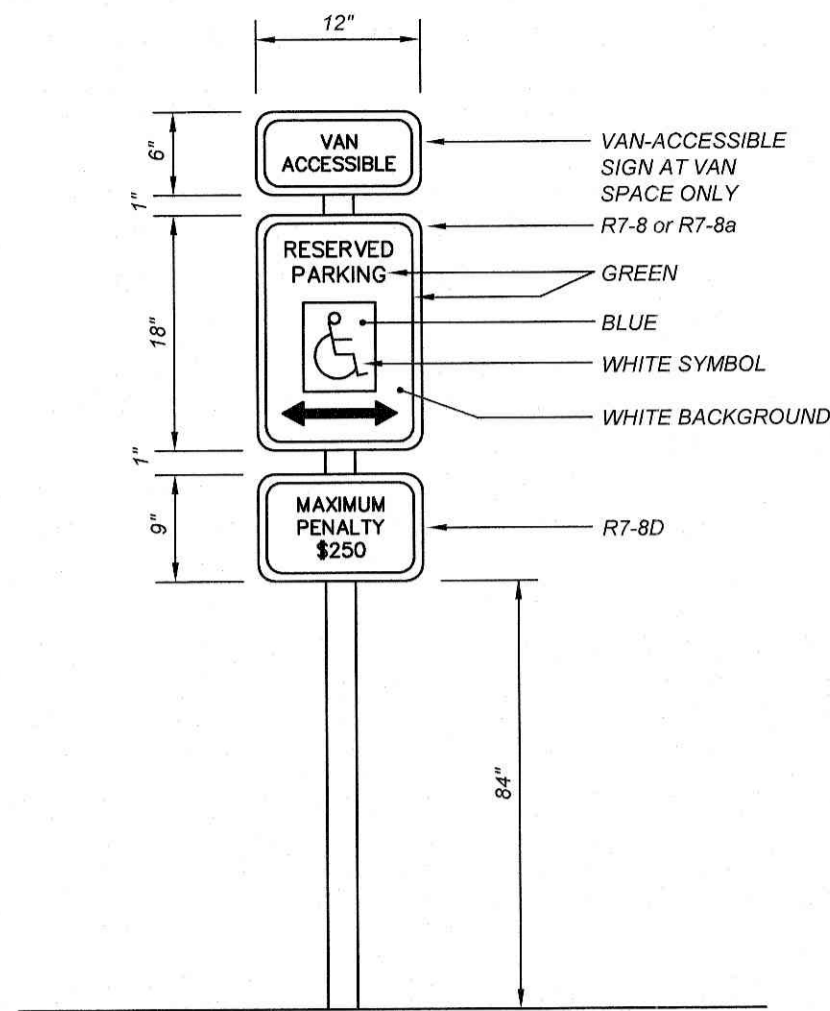


#### CONCRETE SLAB DETAIL

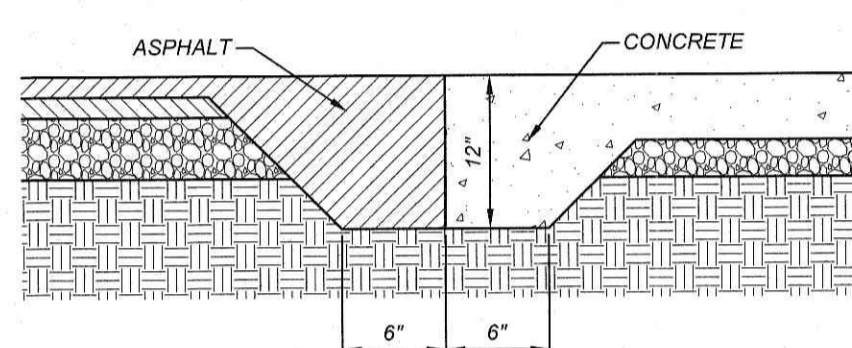


#### TRAFFIC ARROWS

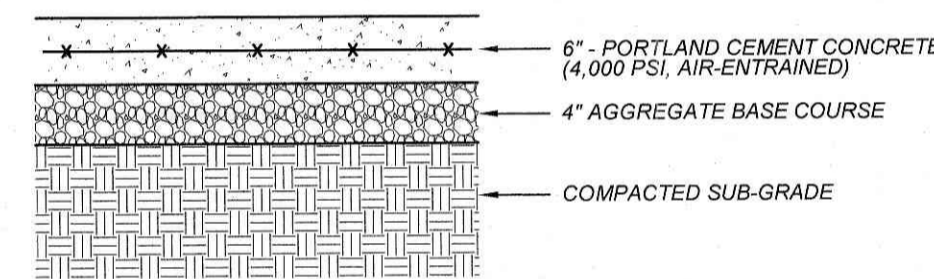
NOTE: ALL TRAFFIC ARROWS TO BE WHITE IN COLOR



#### HANDICAP SIGN DETAIL

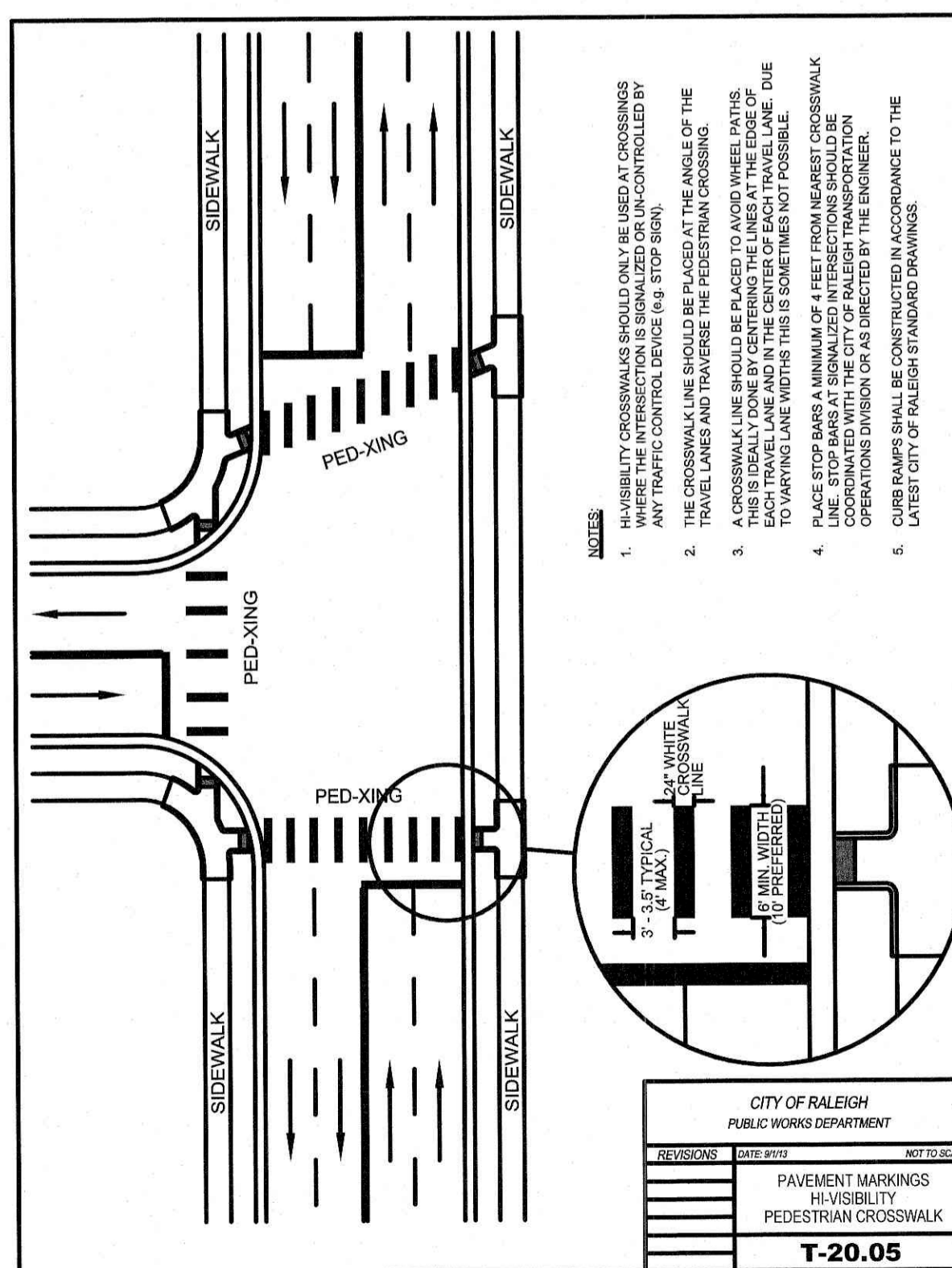


#### ASPHALT/CONCRETE TRANSITION

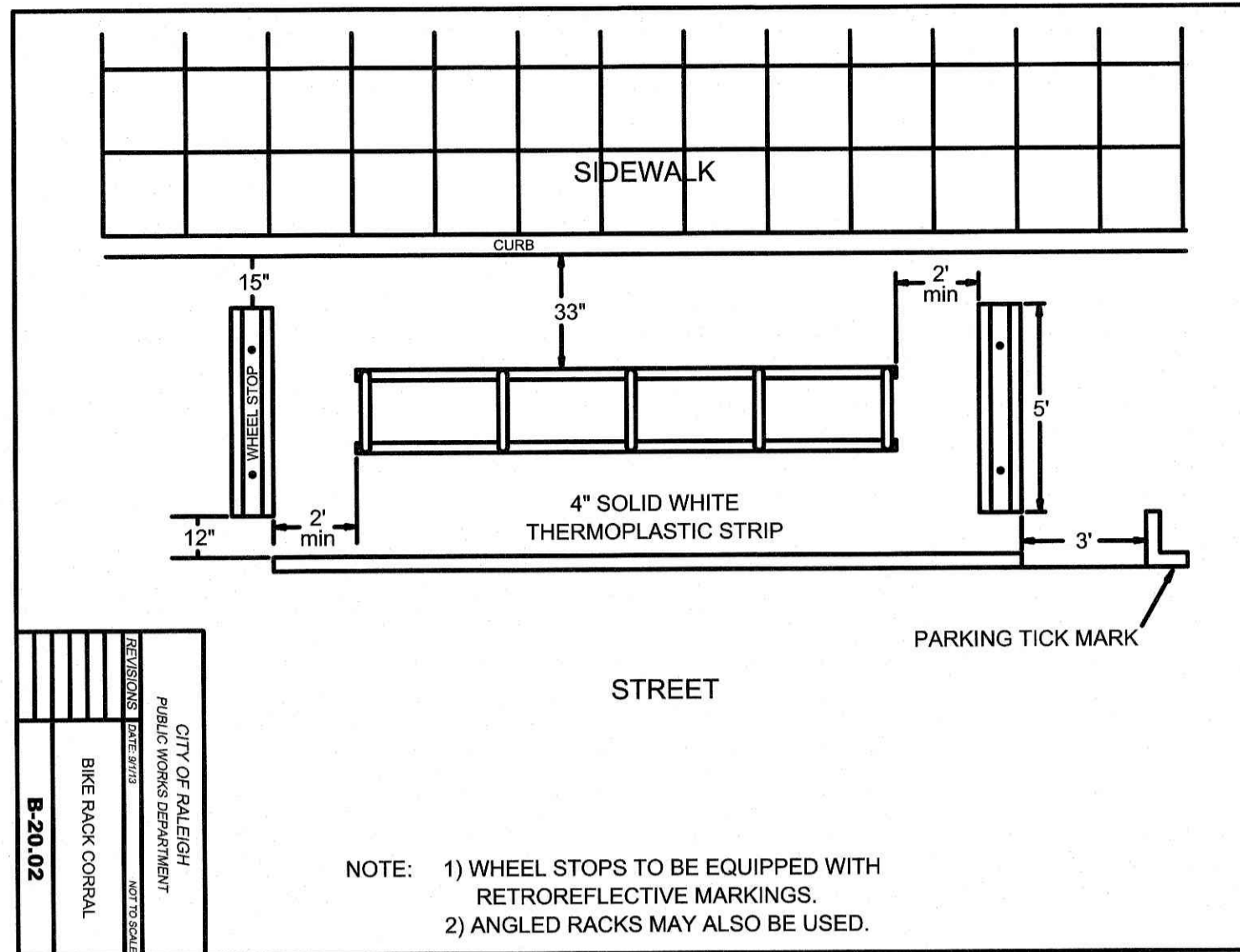


#### CONCRETE PAVEMENT DETAIL

- NOTES:
1. CONTRACTOR SHALL OBTAIN SOILS REPORT PREPARED BY ECS SOUTHEAST, LP, PROJECT # 06-24897, DATED AUGUST 17, 2022.

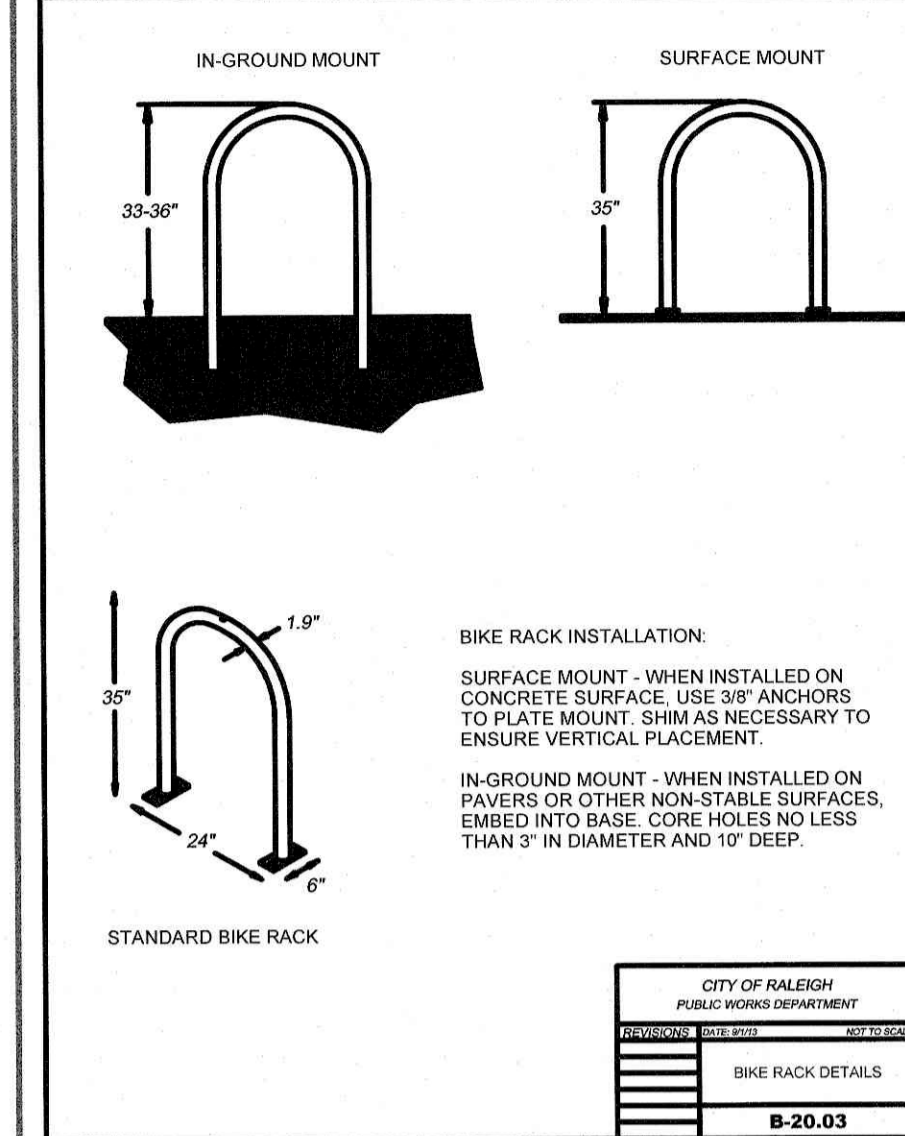


REVISIONS		DATE	BY
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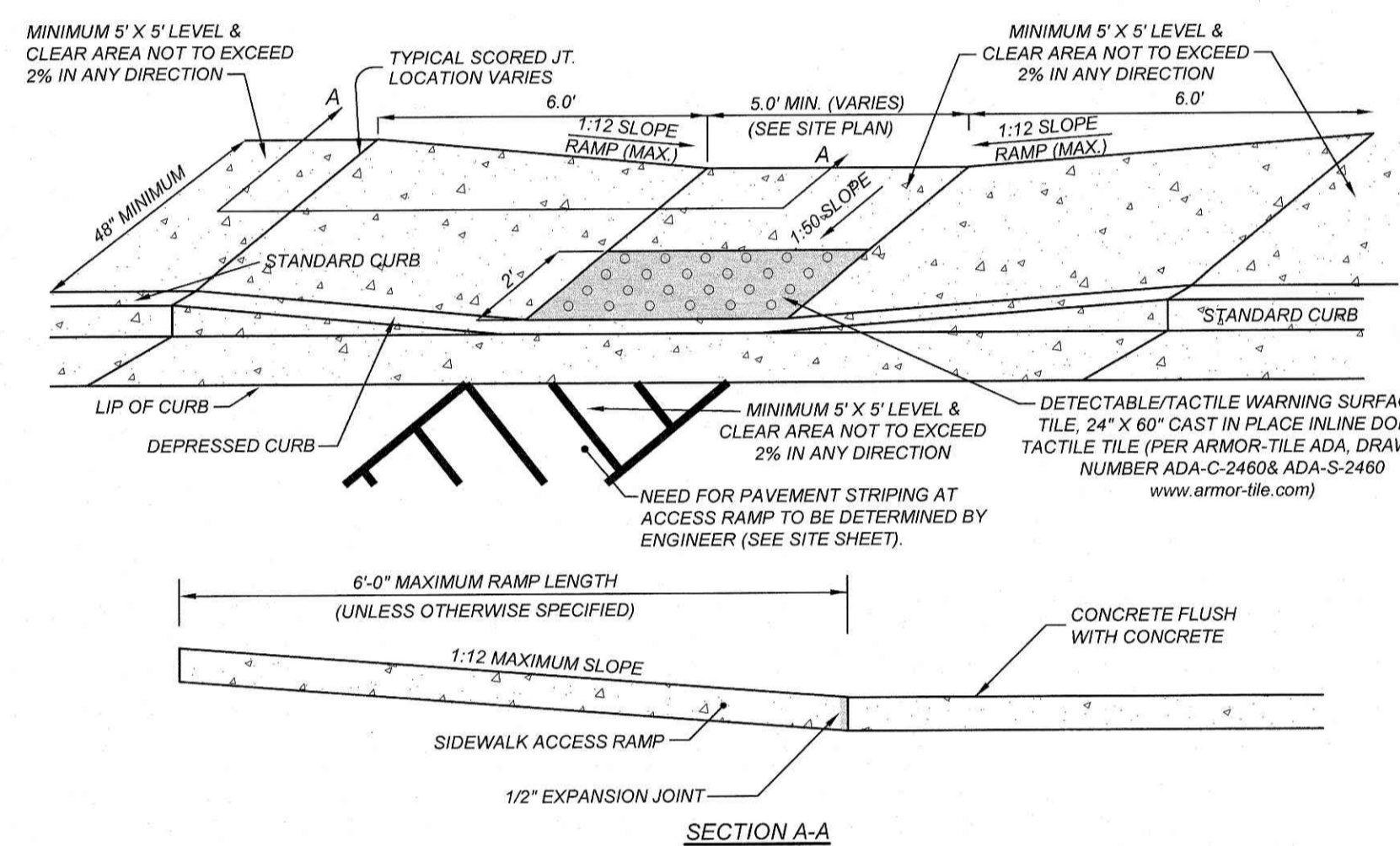
- NOTE: 1) WHEEL STOPS TO BE EQUIPPED WITH RETROREFLECTIVE MARKINGS.  
2) ANGLED RACKS MAY ALSO BE USED.

REVISIONS		DATE	BY
1	2023-5-3	2023-05-03	CHN



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		DATE	BY
1	2023-5-3	2023-05-03	CHN

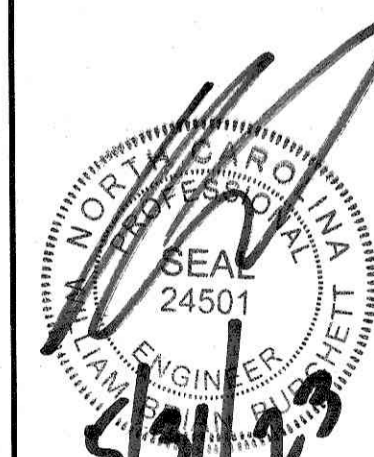
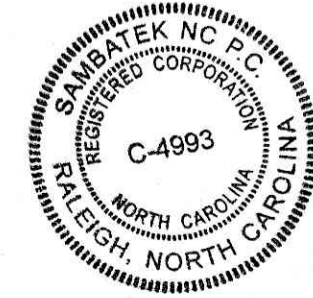


#### FLUSH HANDICAP RAMP DETAIL

NOTE TO CONTRACTOR:  
ALL PROPOSED HANDICAP RAMPS HAVE ADA COMPLIANT DETECTABLE WARNING SURFACES, WHICH MUST BE THE FULL LENGTH OF THE RAMP LANDING

#### GENERAL NOTES

THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR(S) SHALL CONTACT "NC ONE CALL" AT 1-800-632-4949 FOR ASSISTANCE IN LOCATING EXISTING UTILITIES. CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.



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nc811.org or 1-800-632-4949

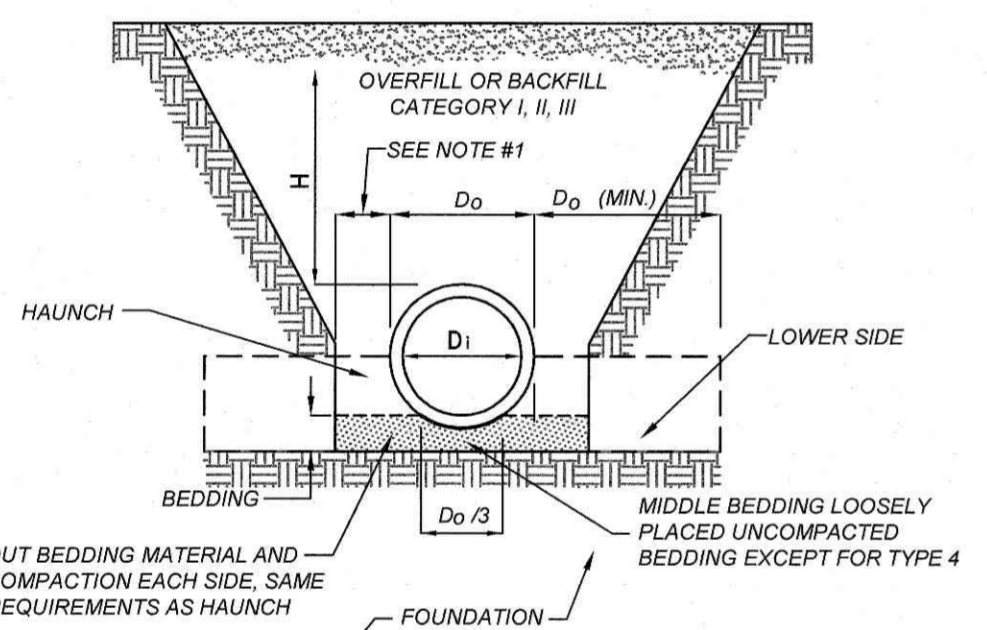
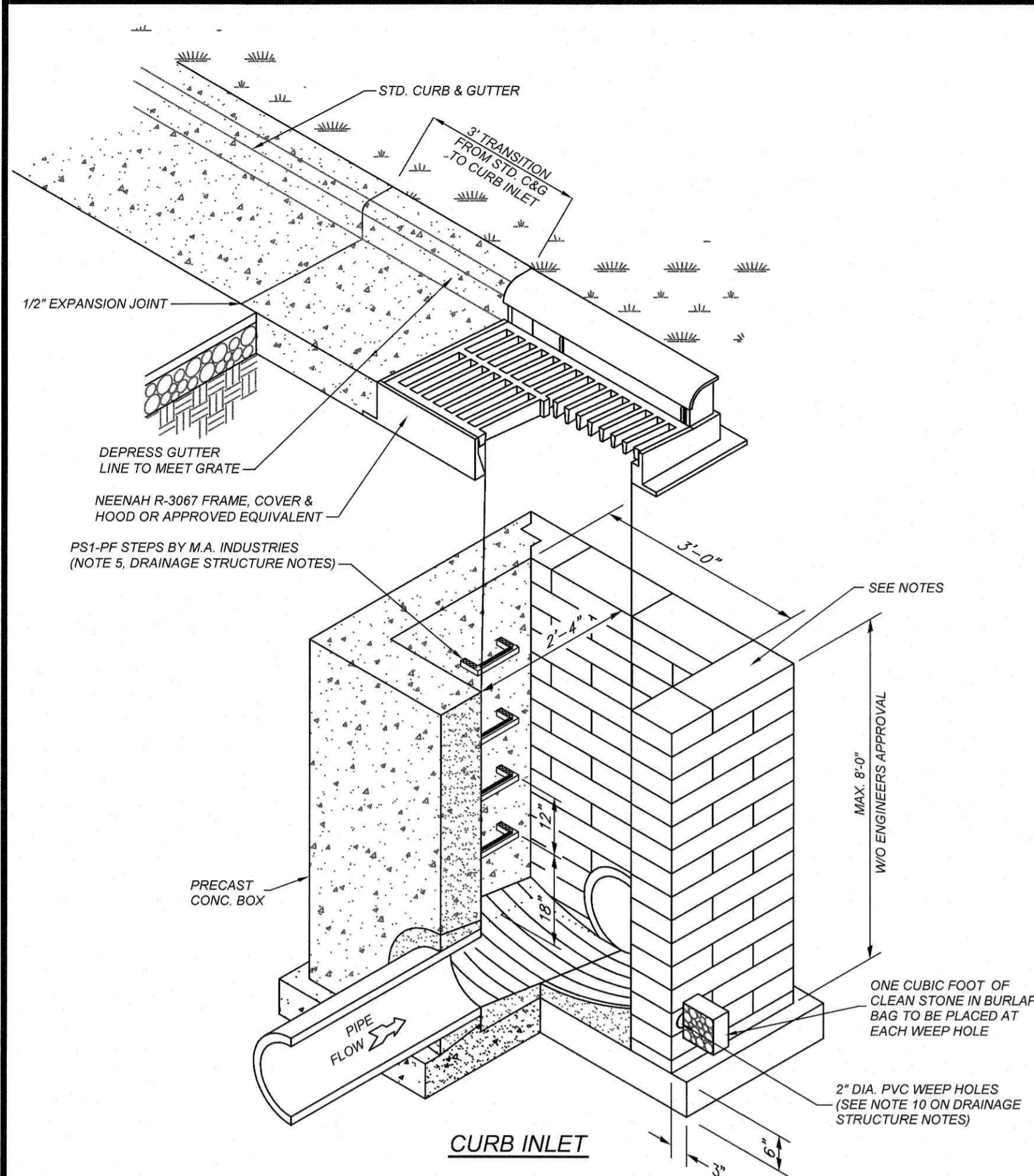
REVISIONS		DATE	BY
1	2023-5-3	2023-05-03	CHN

COMMERCIAL  
SITE DESIGN  
A Sambatak Company  
(919) 948-4821, FAX: (919) 948-5741  
WWW.CSTDDESIGN.COM  
8872 CREEDMOOR ROAD  
RALEIGH, NORTH CAROLINA 27619

CLIENT:  
BULLARD RESTAURANT GROUP  
9131 ANSON WAY, # 305  
RALEIGH, NC 27615

PROPOSED RETAIL AND  
RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

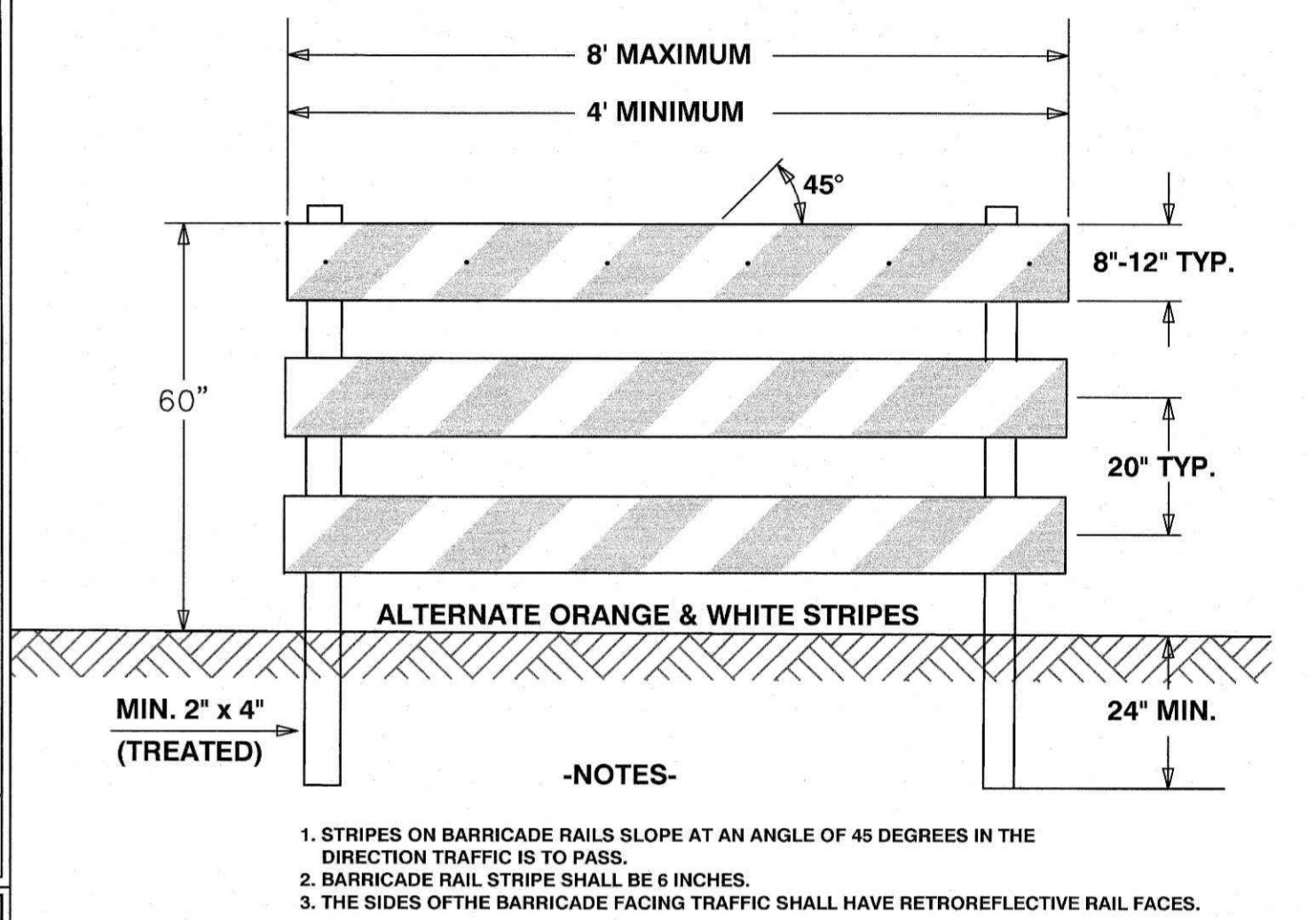
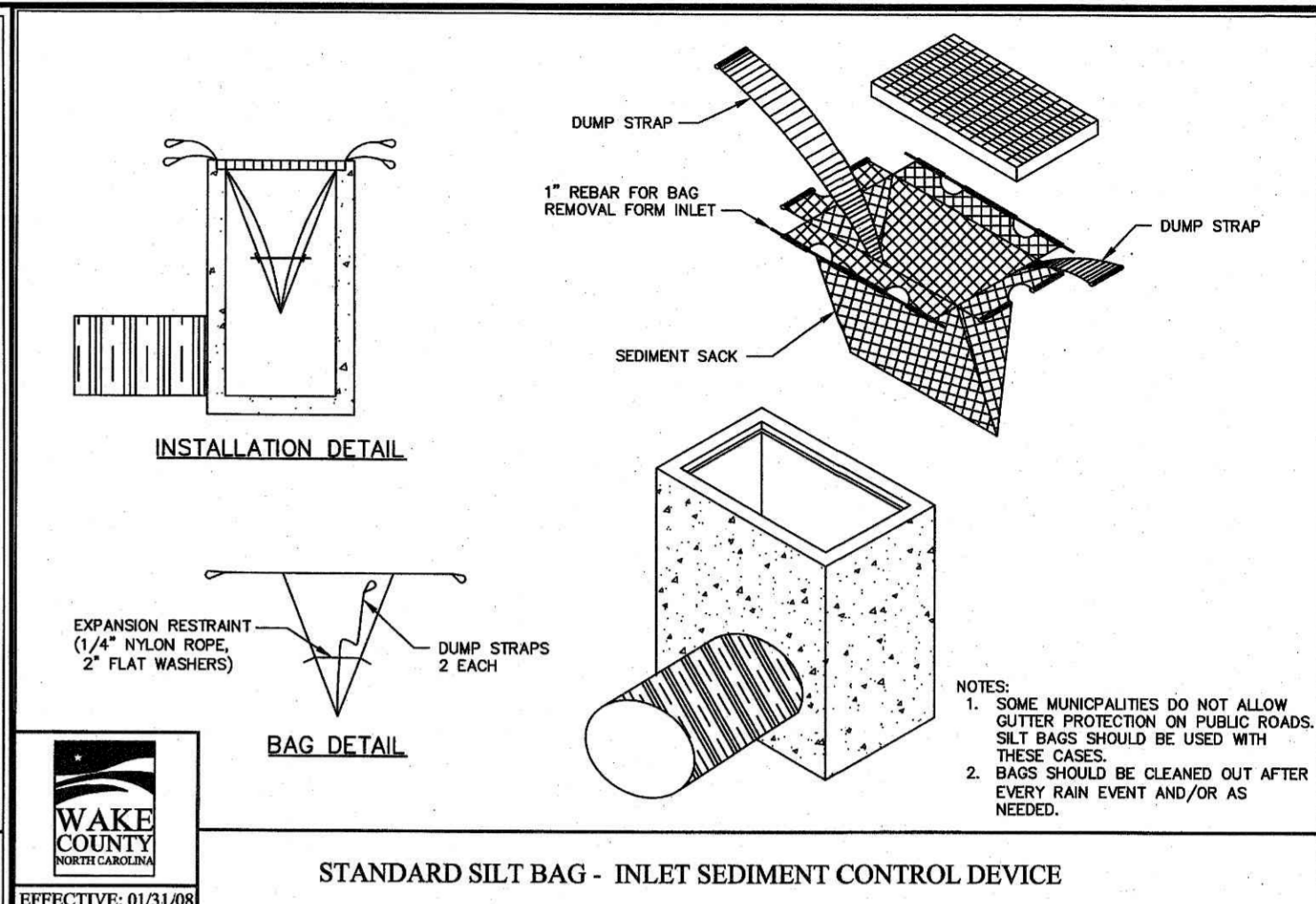
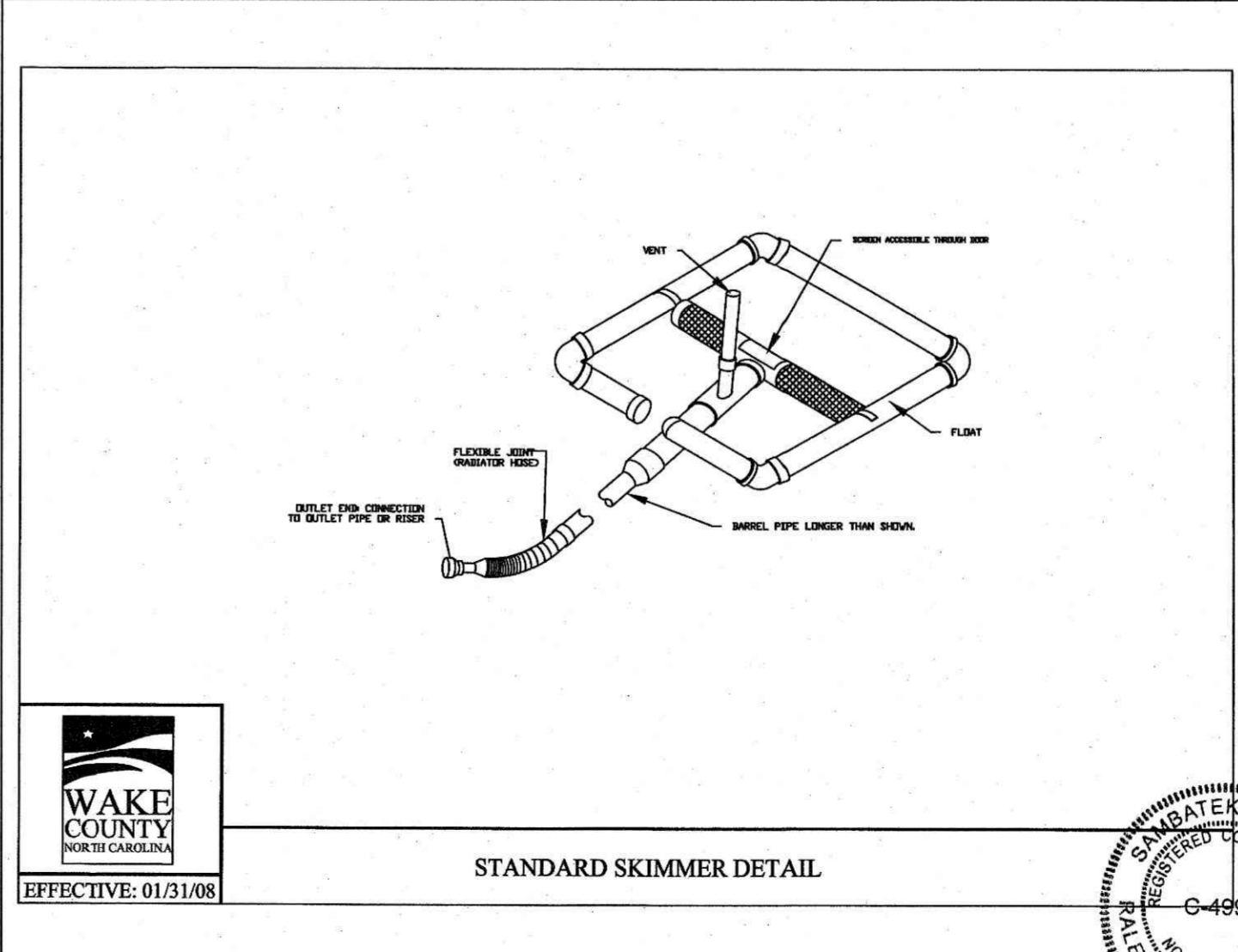
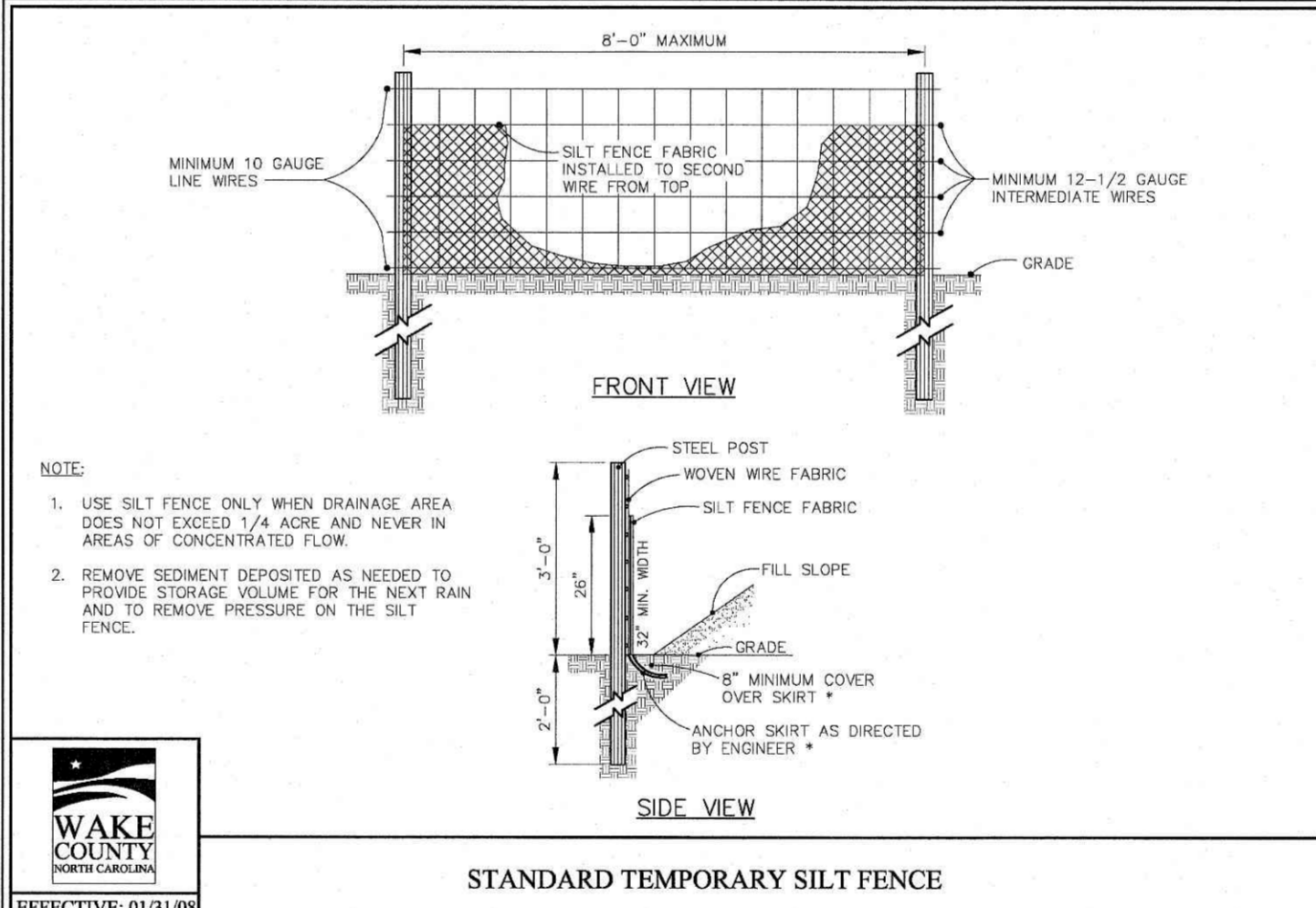
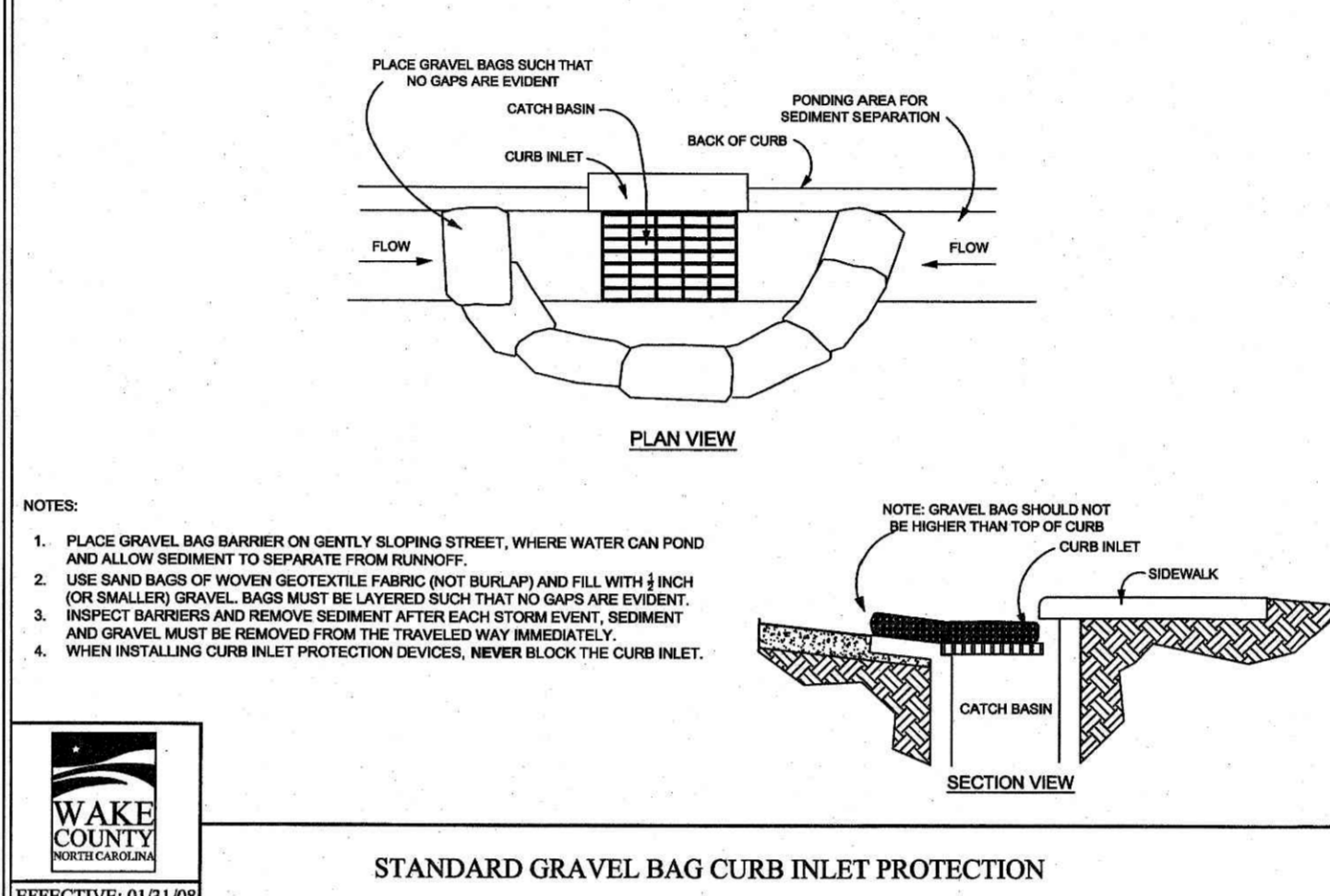
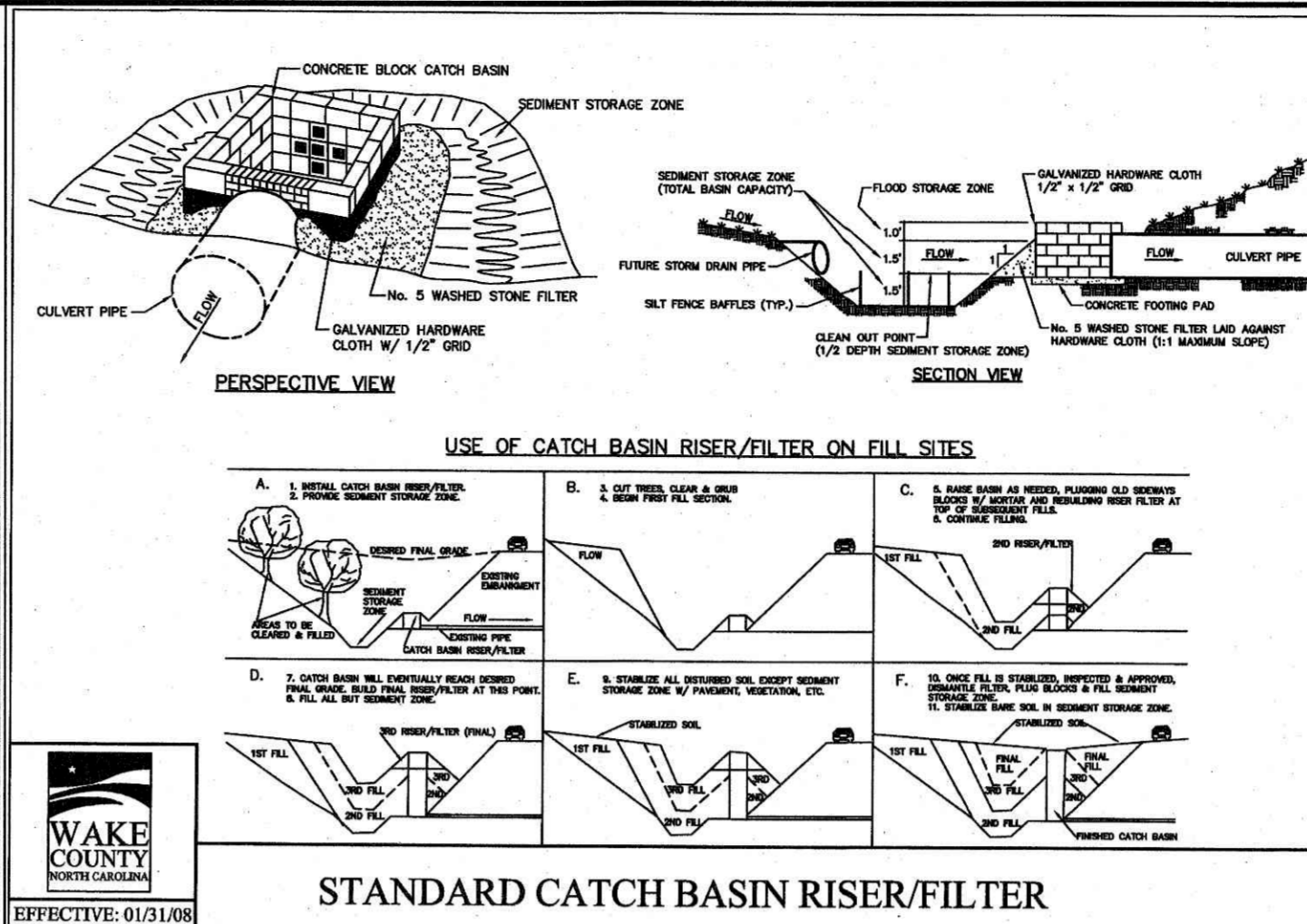
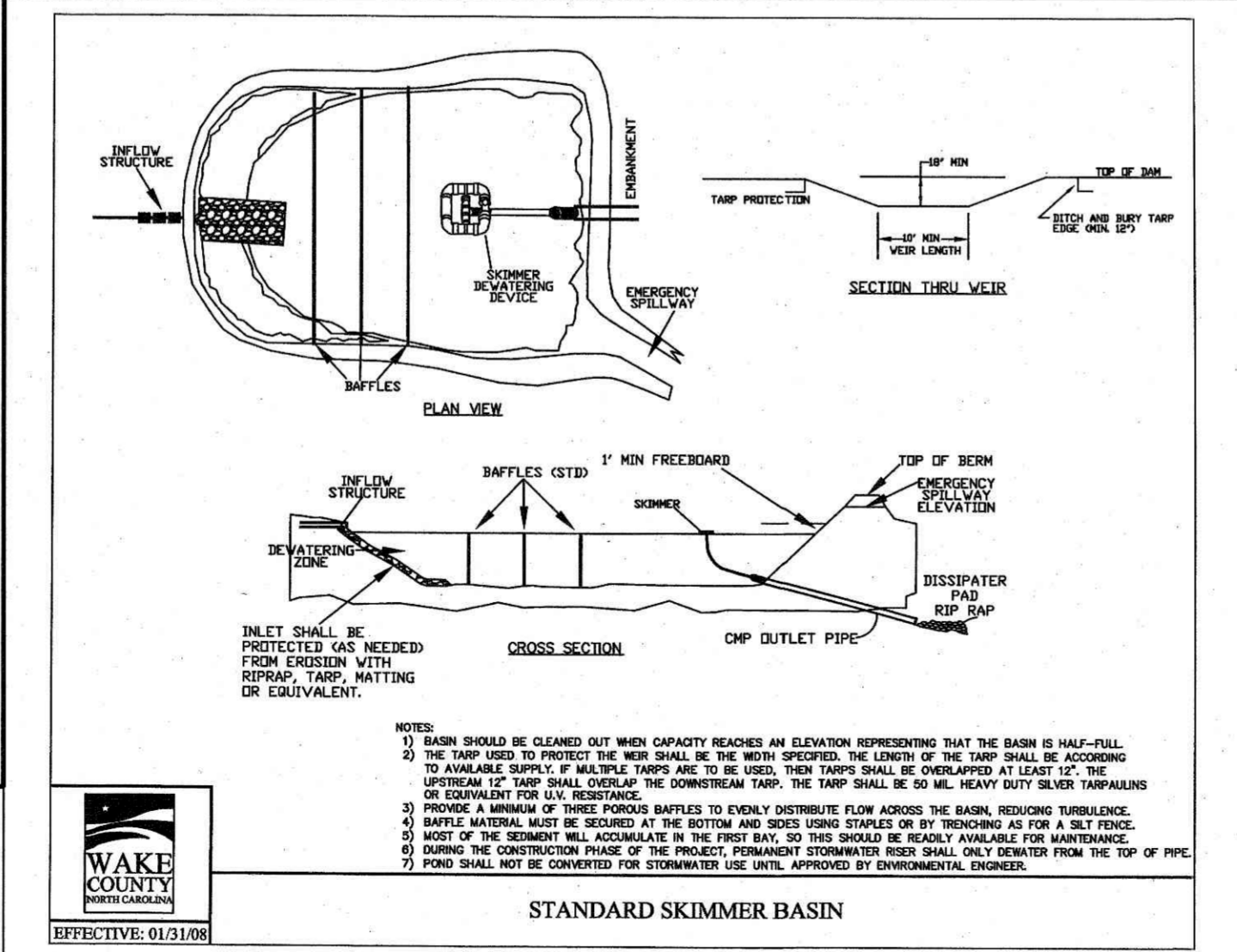
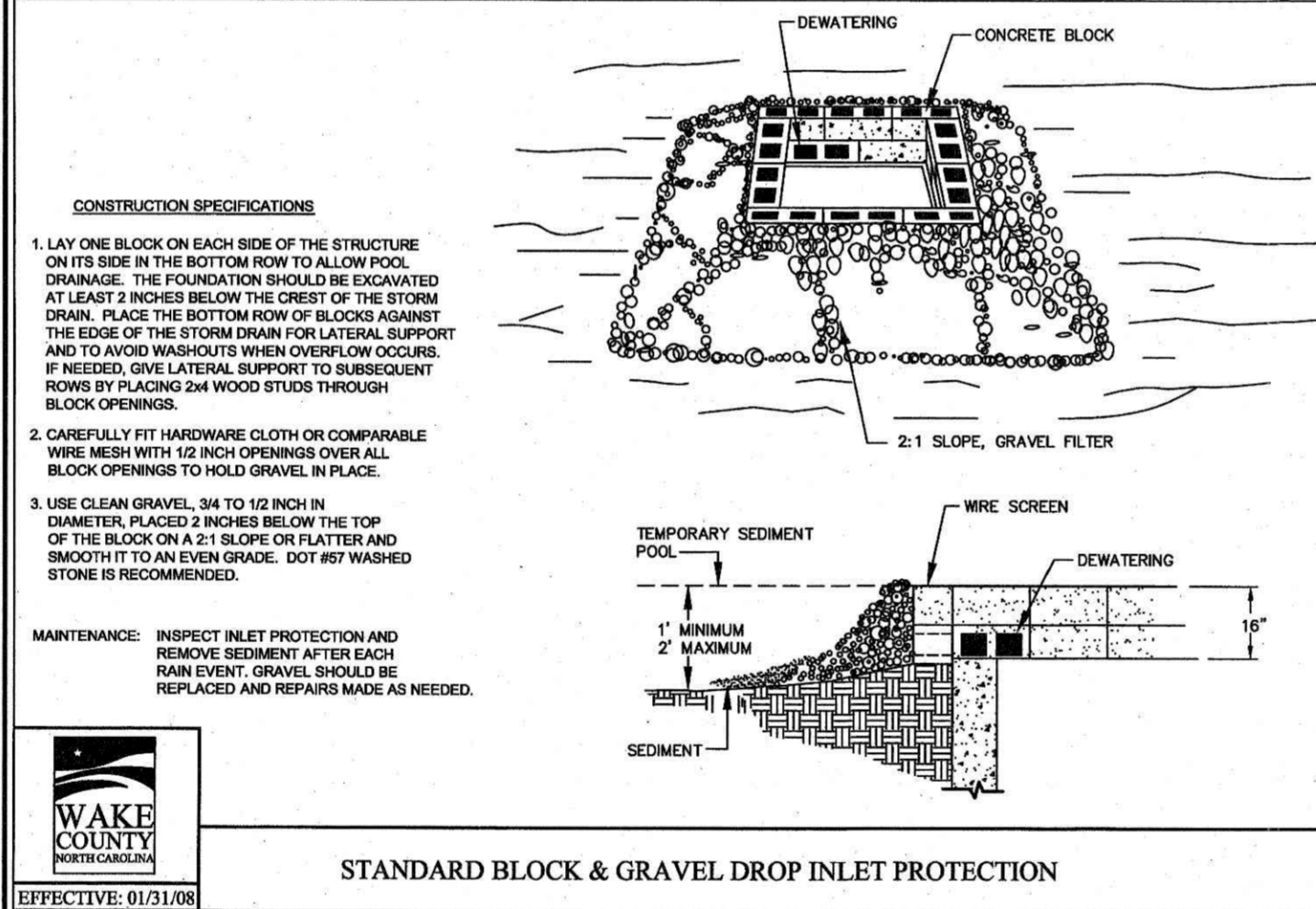
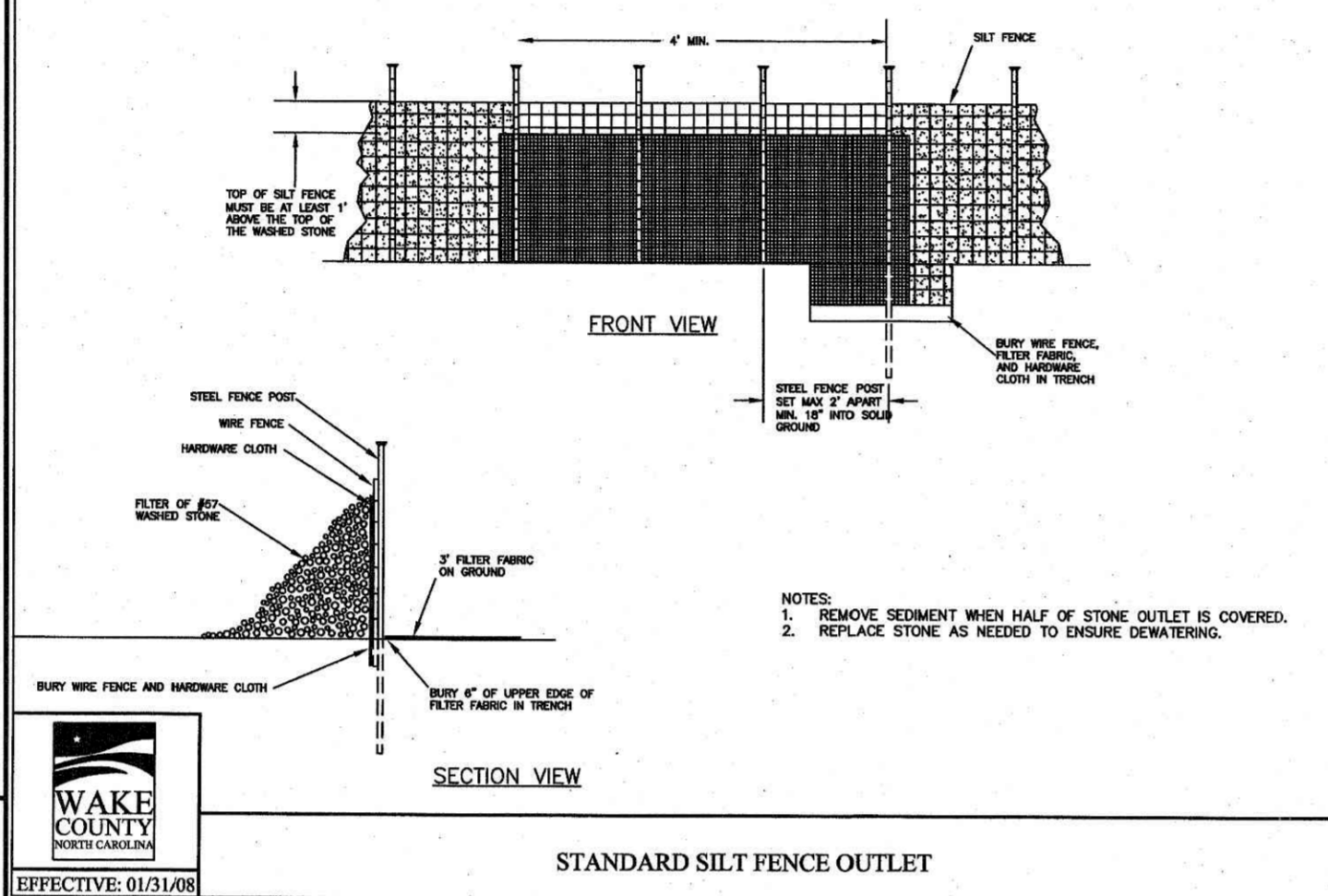
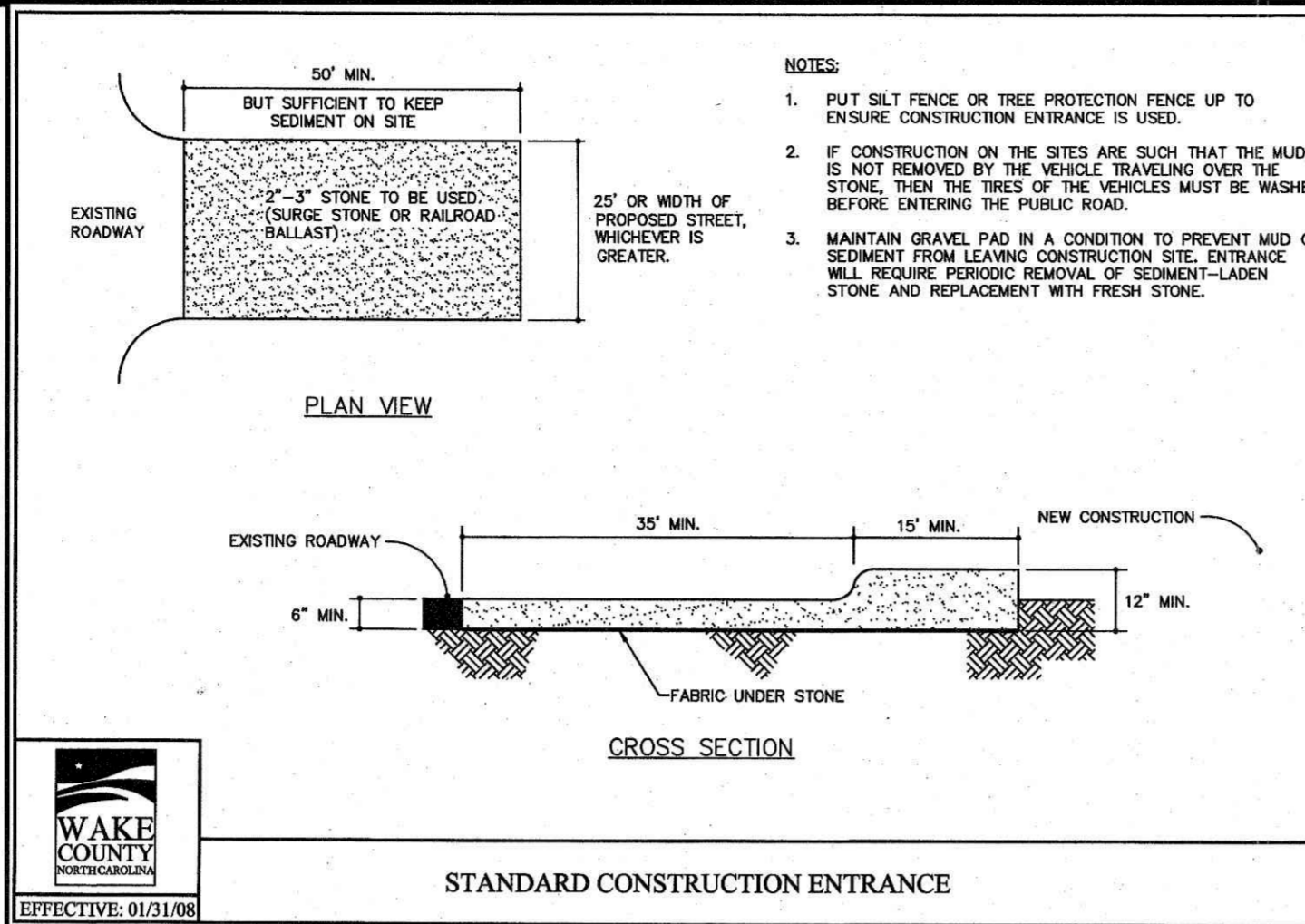
PROJECT NO.	BUL-2103
FILENAME	BUL2103-DTL1
DRAWN BY	RCN
SCALE	N.T.S.
DATE	12-06-2022
SHEET NO.	C-10



INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE I	D <sub>2</sub> /24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION. USE D <sub>2</sub> /12 MINIMUM; NOT LESS THAN 6 IN.	95% CATEGORY I	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 90% CATEGORY I, 95% CATEGORY II, OR 100% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.

1. **COMPACTION AND SOIL SYMBOLS, THAT IS, 95% CATEGORY I, REFER TO CATEGORY I SOIL MATERIAL WITH A MINIMUM STANDARD PROCTOR COMPACTION OF 95%.**
2. **THE TRENCH TOP ELEVATION SHALL BE NO LOWER THAN 0.1 H BELOW FINISHED GRADE OR, FOR ROADWAYS, ITS TOP SHALL BE NO LOWER THAN AN ELEVATION OF 1 FT BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.**
3. **WHEN THE TRENCH WIDTH SPECIFIED MUST BE EXCEEDED, THE ENGINEER SHALL BE NOTIFIED.**
4. **SOIL IN BEDDING AND HAUNCH ZONES SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS SPECIFIED FOR THE MAJORITY OF SOIL IN THE BACKFILL ZONE.**
5. **THE TRENCH WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.**
6. **FOR TRENCH WALLS THAT ARE WITHIN 10 DEGREES OF VERTICAL, THE COMPACTION FIRMNESS OF THE SOIL IN THE TRENCH WALLS AND LOWER SIDE ZONE NEED NOT BE CONSIDERED, SEE NOTE 3.**
7. **FOR TRENCH WALLS GREATER THAN 10 DEGREE SLOPES THAT CONSIST OF EMBANKMENT, THE LOWER SIDE SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS SPECIFIED FOR THE SOIL IN BACKFILL ZONE, SEE NOTE 3.**
8. **REQUIRED BEDDING THICKNESS IS THE THICKNESS OF THE BEDDING AFTER THE PLACEMENT OF THE PIPE ON THE BEDDING AND PRIOR TO THE PLACEMENT OF THE BACKFILL.**

TYPE I - TRENCH DETAIL



### STANDARD TEMPORARY BARRICADE (NOT TO SCALE)



**Know what's below.  
Call before you dig.**  
nc811.org or 1-800-632-4949

## DRAINAGE STRUCTURE NOTES

1. BOXES SHALL COMPLY WITH LOCAL JURISDICTIONAL STANDARDS AND SPECIFICATIONS.
2. ANY NONSTANDARD DRAIN IS TO BE DESIGNED BY A PROFESSIONAL ENGINEER.  
  
THE MAXIMUM HEIGHT OF AN UN-REINFORCED MASONRY DRAINAGE STRUCTURE WITH A TOP SHALL BE LIMITED TO 8'-0" FROM INVERT OF THE OUTLET PIPE TO THE TOP OF THE CASTING. DEPTHS GREATER THAN 8'-0" SHALL HAVE WALLS 12" THICK, BASINS OVER 12" IN TOTAL DEPTH SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER. FOUR REINFORCING BARS ARE NOT ALLOWED IN NON-DRAIN STRUCTURES. BOTTOM SLAB ON STRUCTURES SHALL BE REINFORCED WHEN BOX DEPTHS EXCEEDS 8 FT.
4. STEPS ARE TO BE PROVIDED ON ALL BASINS DEEPER THAN 42".
5. STEPS ARE TO BE P51-PF AS MANUFACTURED BY M.A. INDUSTRIES OR AN APPROVED EQUAL. LOCATE ON NON-PIPE WALLS.
6. MORTAR IN MASONRY BOXES IS TO BE TYPE M.
7. CLAY BRICK STRUCTURES ARE NOT ALLOWED.
8. CONCRETE PIPE IS TO BE MINIMUM CLASS III.
9. CONCRETE BUILDING BRICK IS TO MEET ASTM C-55, GRADE N, TYPE 1.
10. BASINS LOCATED IN WET AREAS, OR AS OTHERWISE REQUIRED BY THE TOWN ENGINEER, SHALL HAVE WEEP HOLES AS SHOWN ON DETAILS.
11. ALL CAST-IN-PLACE PRECAST CONCRETE DRAINAGE STRUCTURES LOCATED IN PAVED AREAS ARE SUBJECT TO TRUCK LOADINGS TO BE DESIGNED TO MEET AASHTO HS 20-44 LOADING. SEE MANUFACTURER'S DETAILS FOR WALL, TOP AND BOTTOM THICKNESS.

REVISIONS			
1	2023-5-3	ROLESVILLE TRC COMMENTS	KL
NO.	DATE	DESCRIPTION	BY



**COMMERCIAL  
SITE DESIGN**  
A Sambatek Company

(919) 848-6121 FAX: (919) 848-5741  
WWW.CSDTDESIGN.COM

8972 CREEDMOOR ROAD  
RALEIGH, NORTH CAROLINA 27615

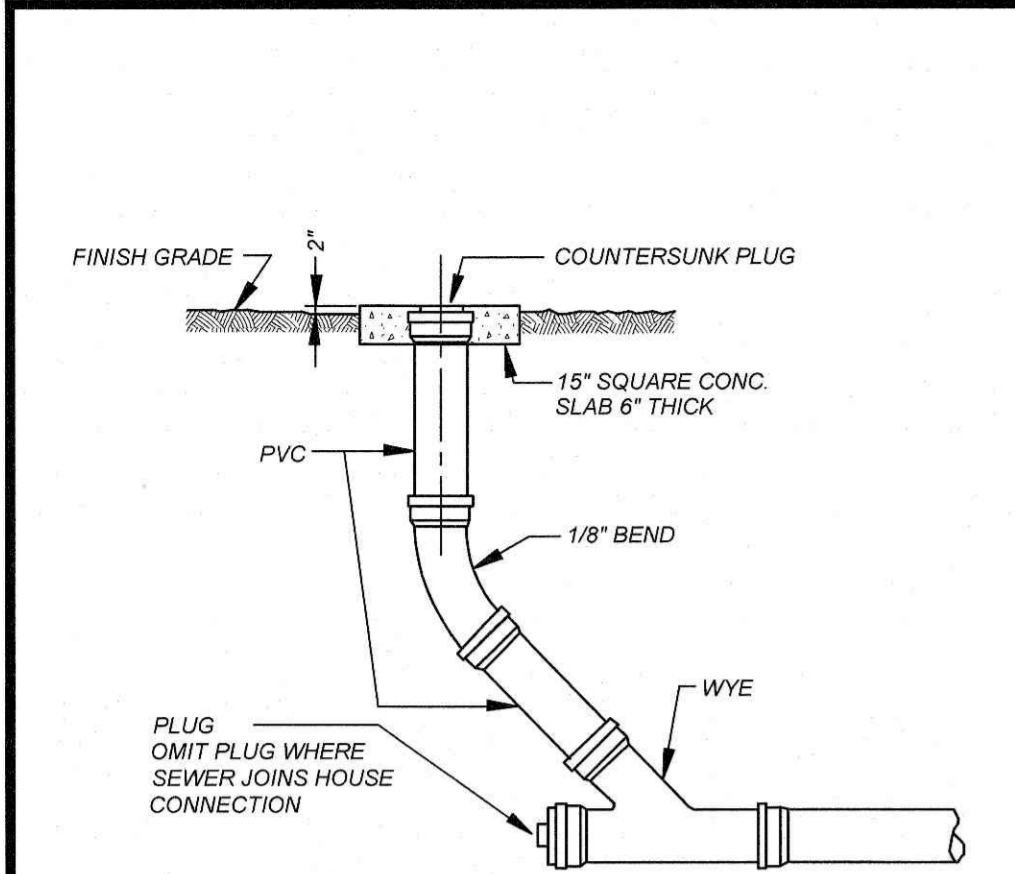
AGENT: BULLARD RESTAURANT GROUP  
9131 ANSON WAY, # 305  
RALEIGH, NC 27615

PROPOSED RETAIL AND  
RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

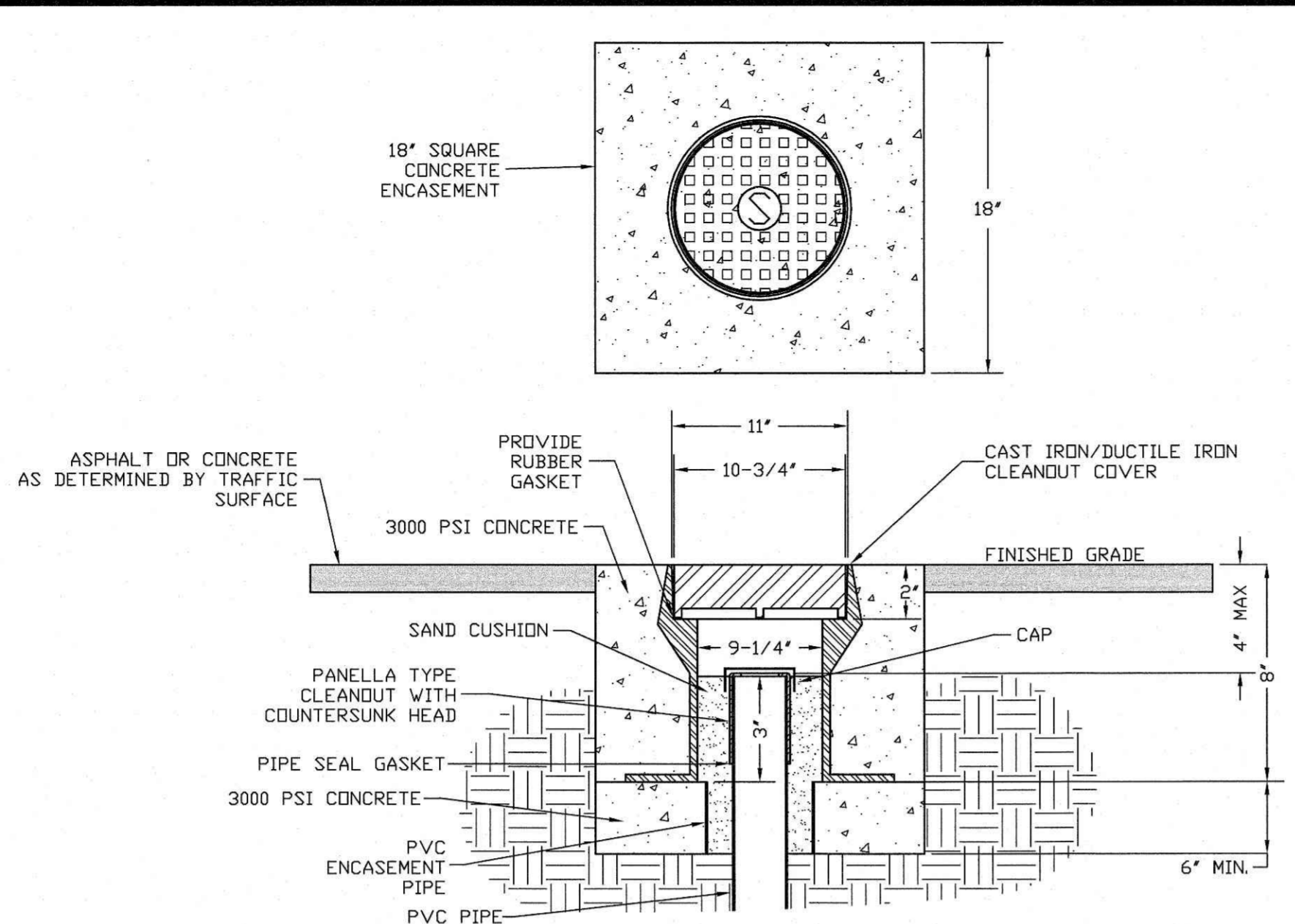
DETAIL S

PROJECT NO.	BUL-2103
FILENAME:	BUL32103-DTL2
DRAWN BY:	RCN
SCALE:	N.T.S.
DATE:	12-06-2022
SHEET NO.	

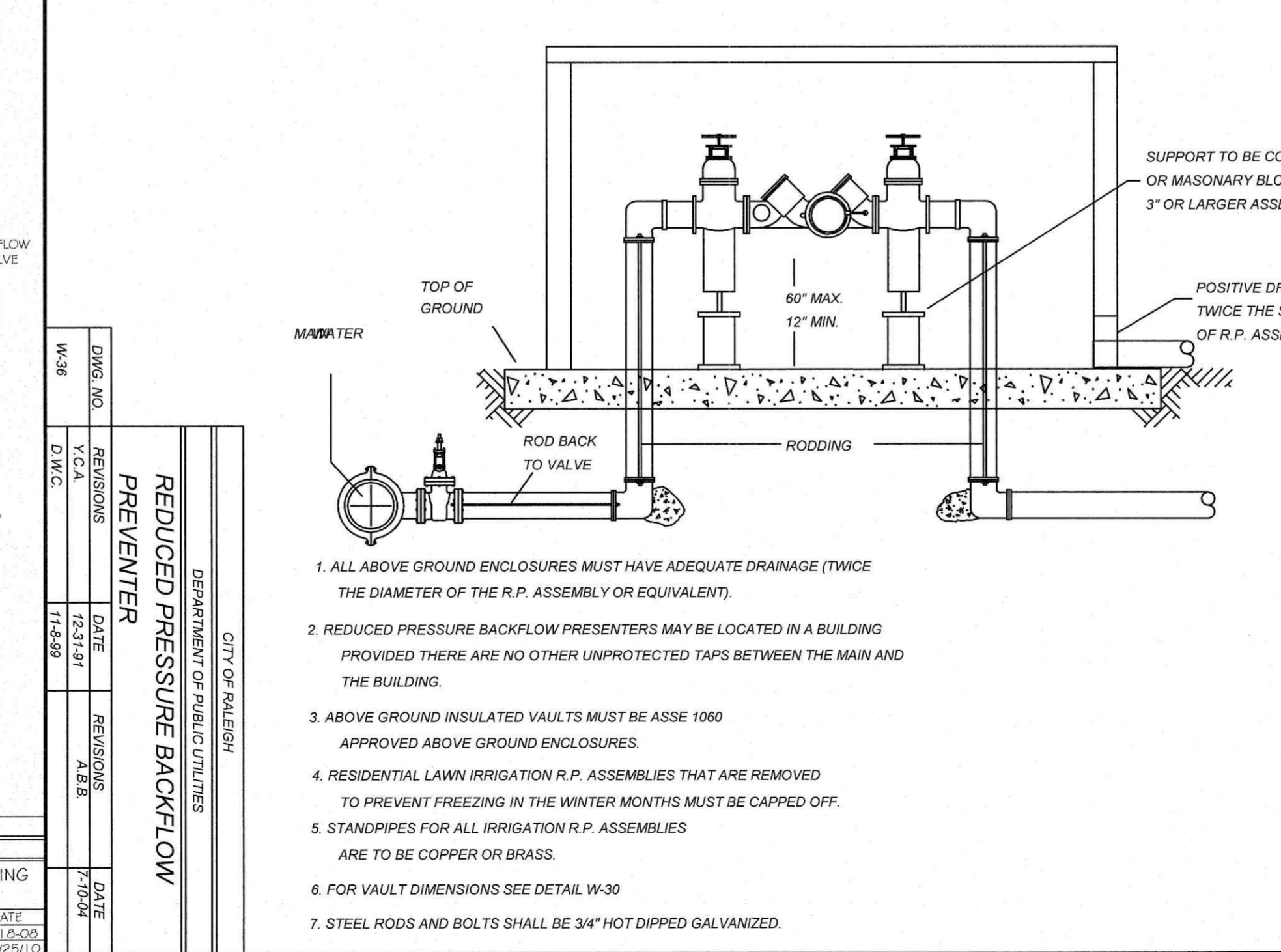
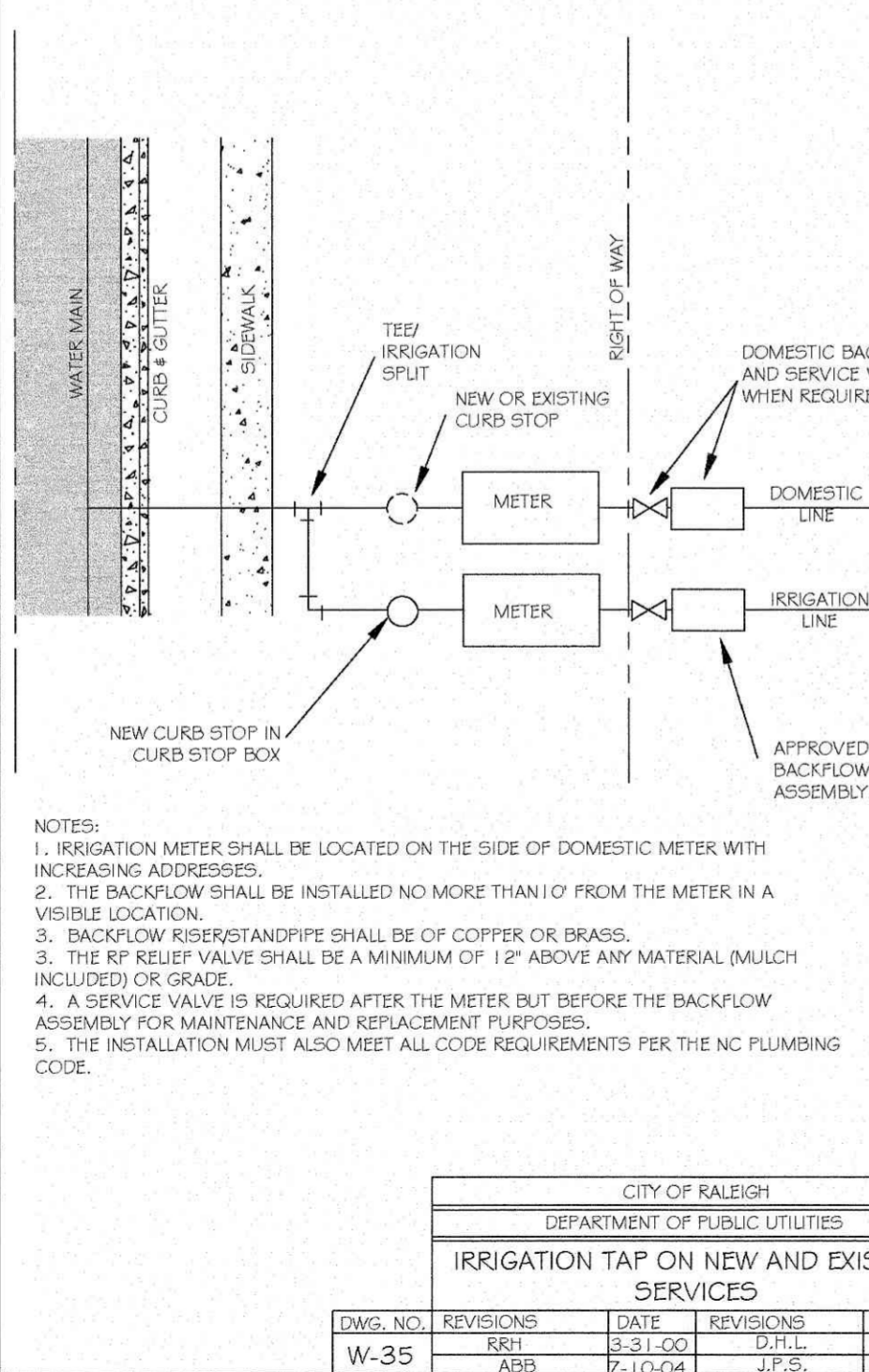
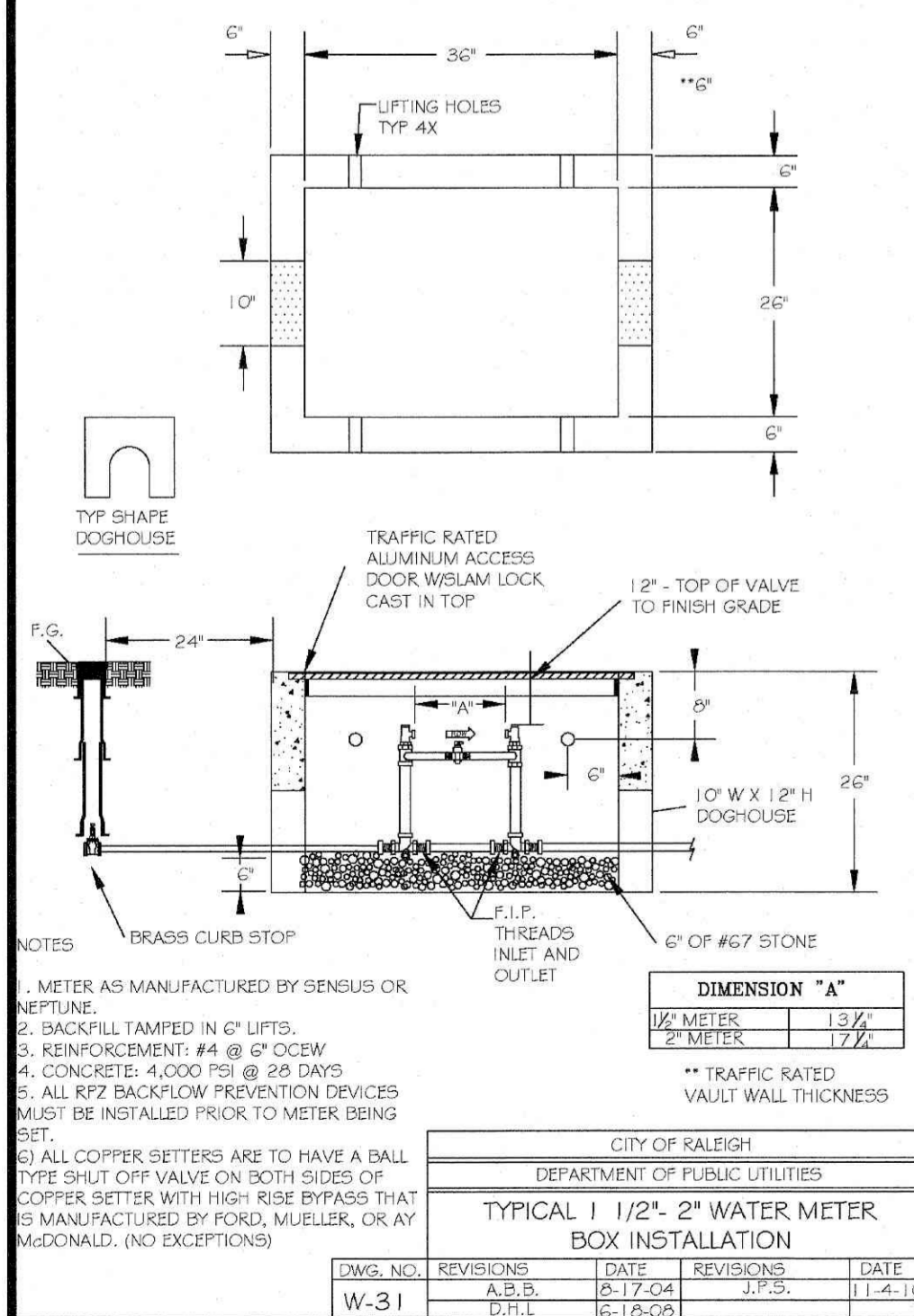
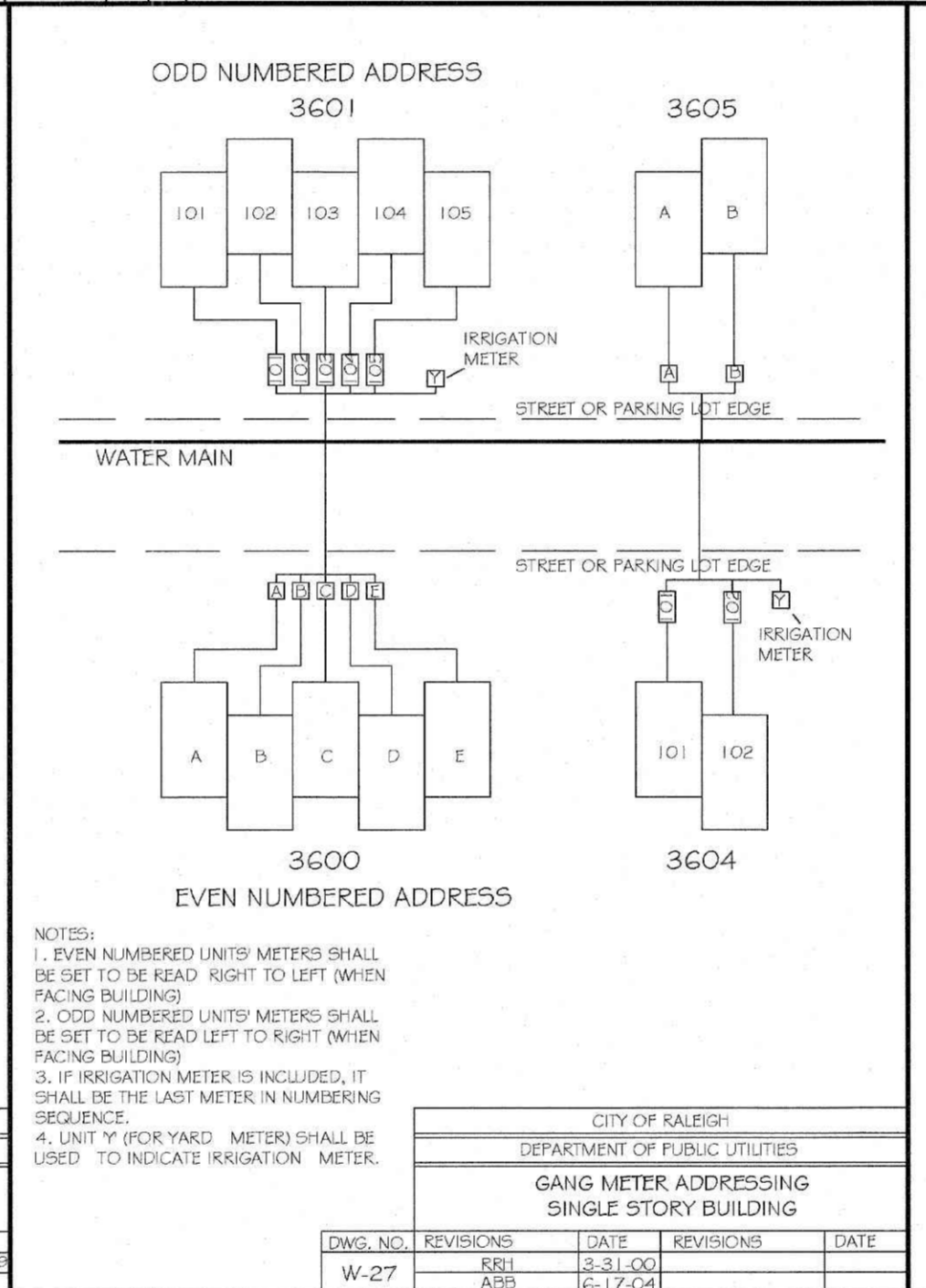
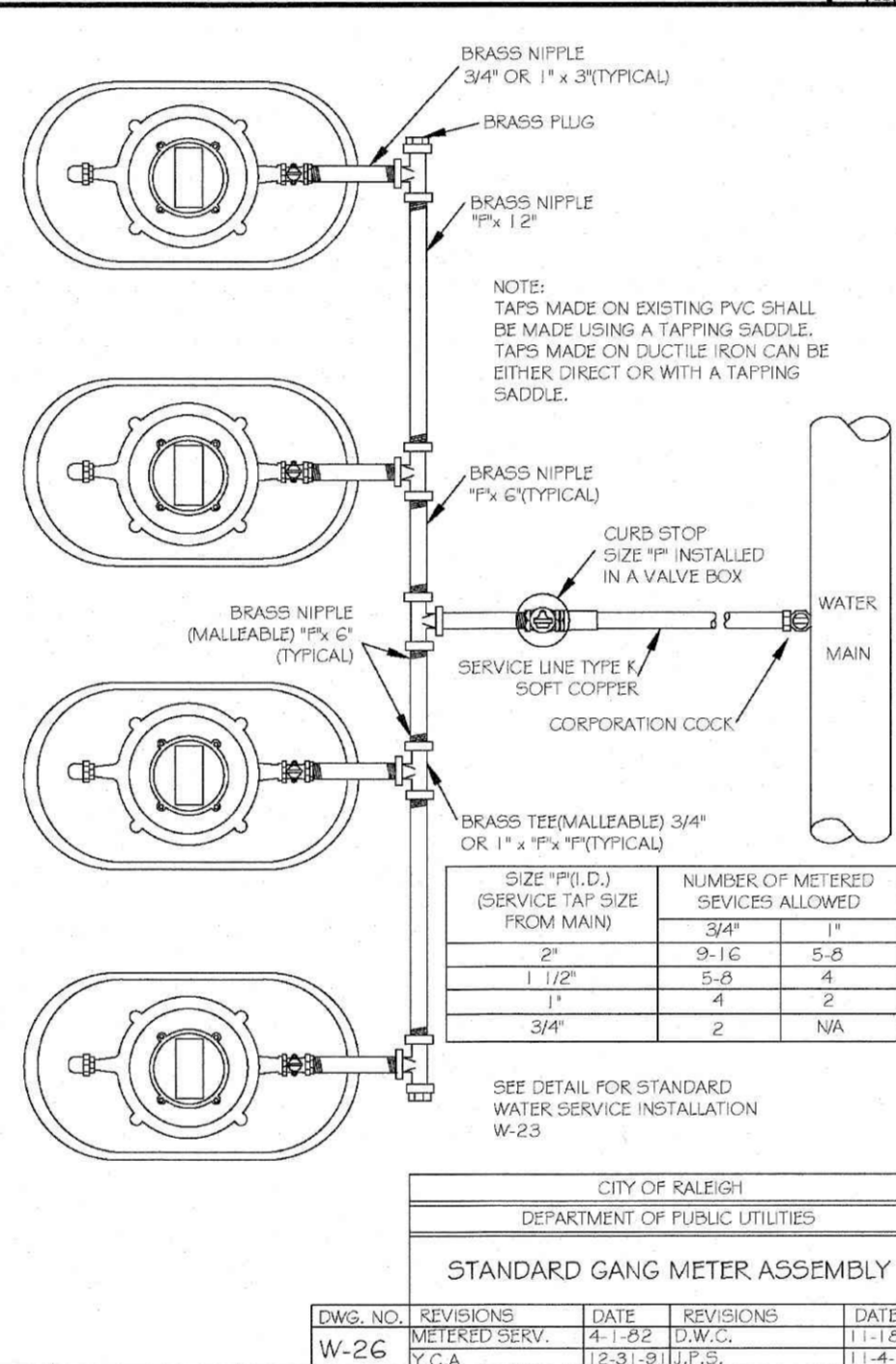
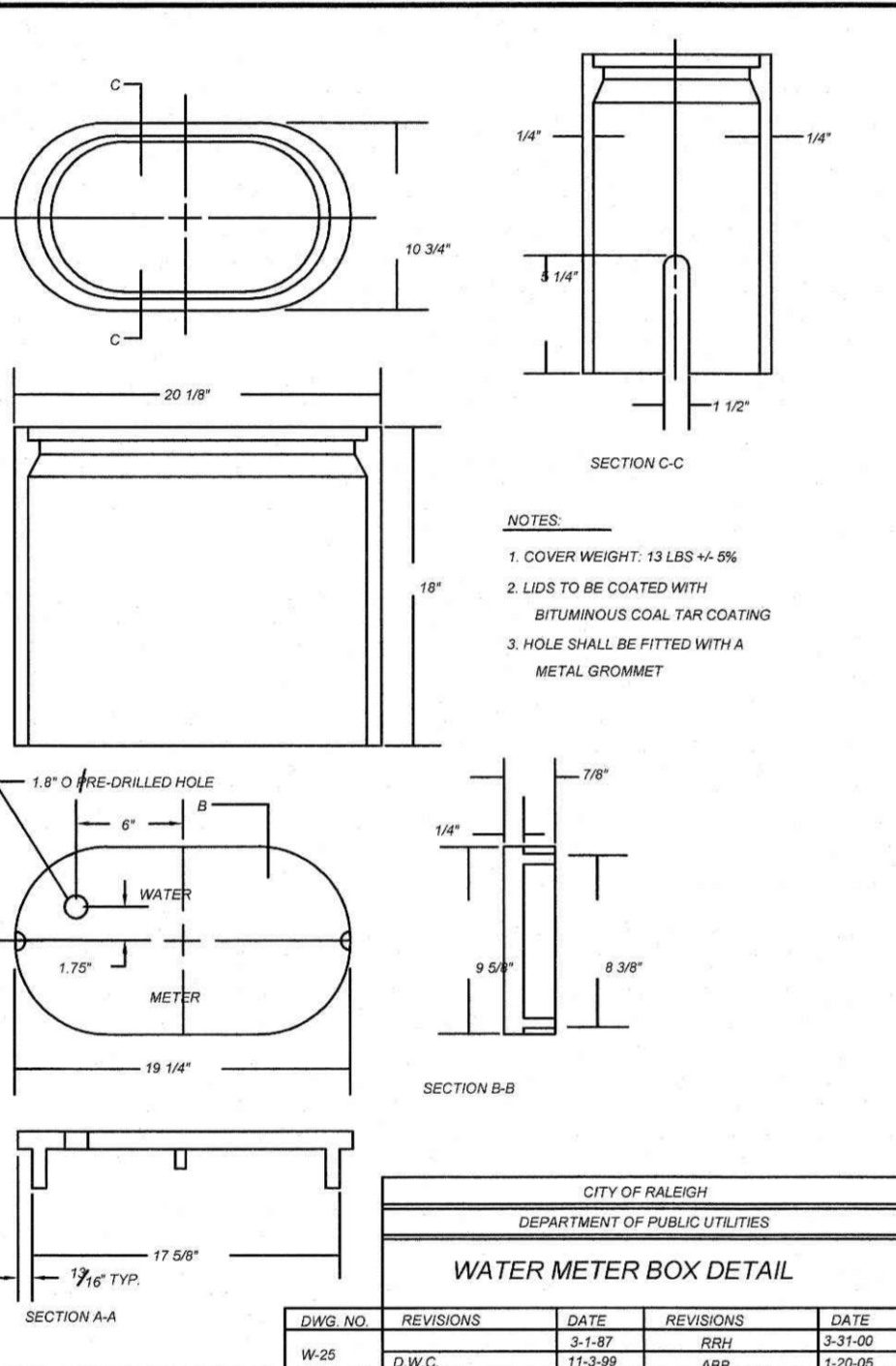
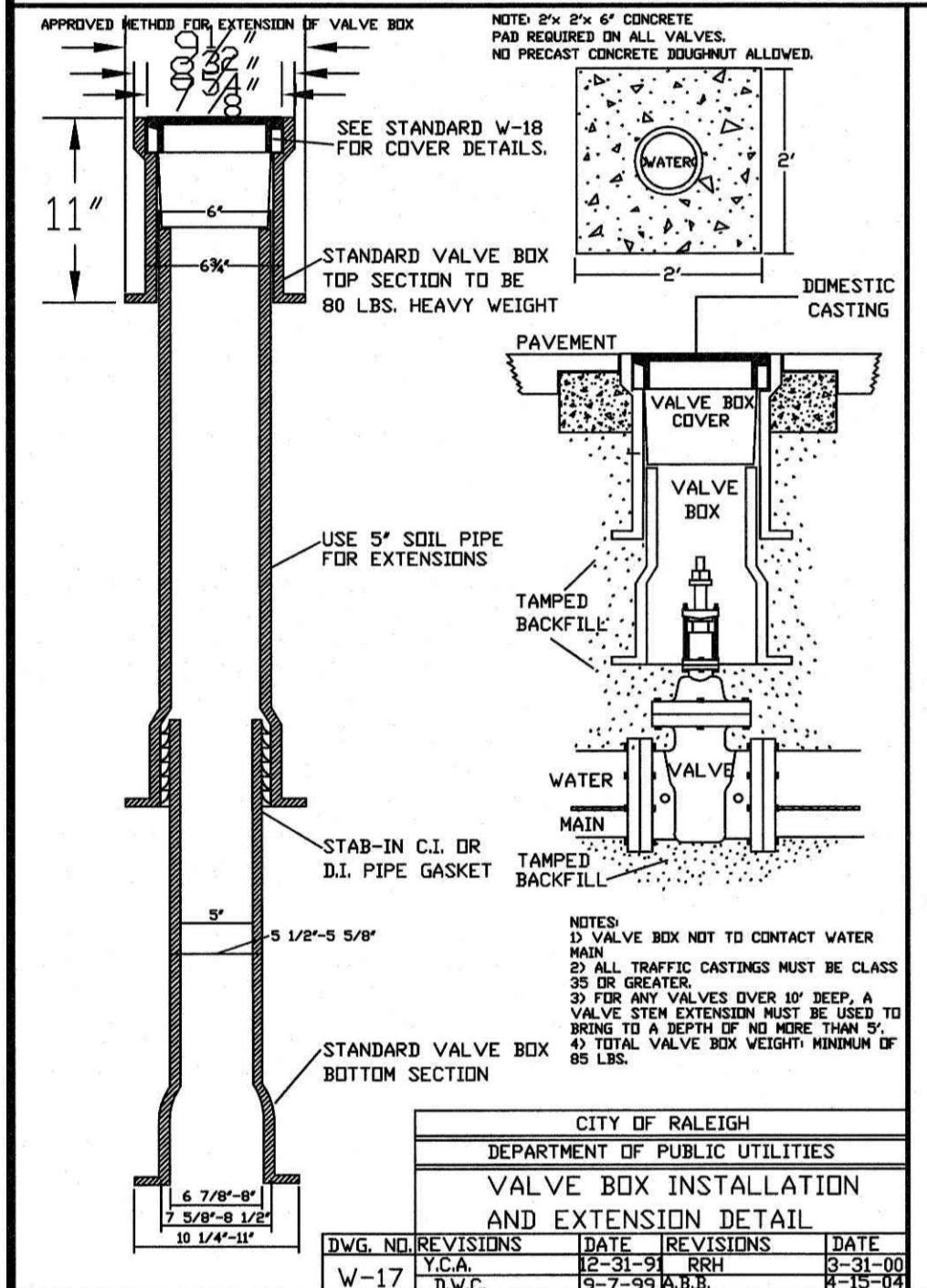
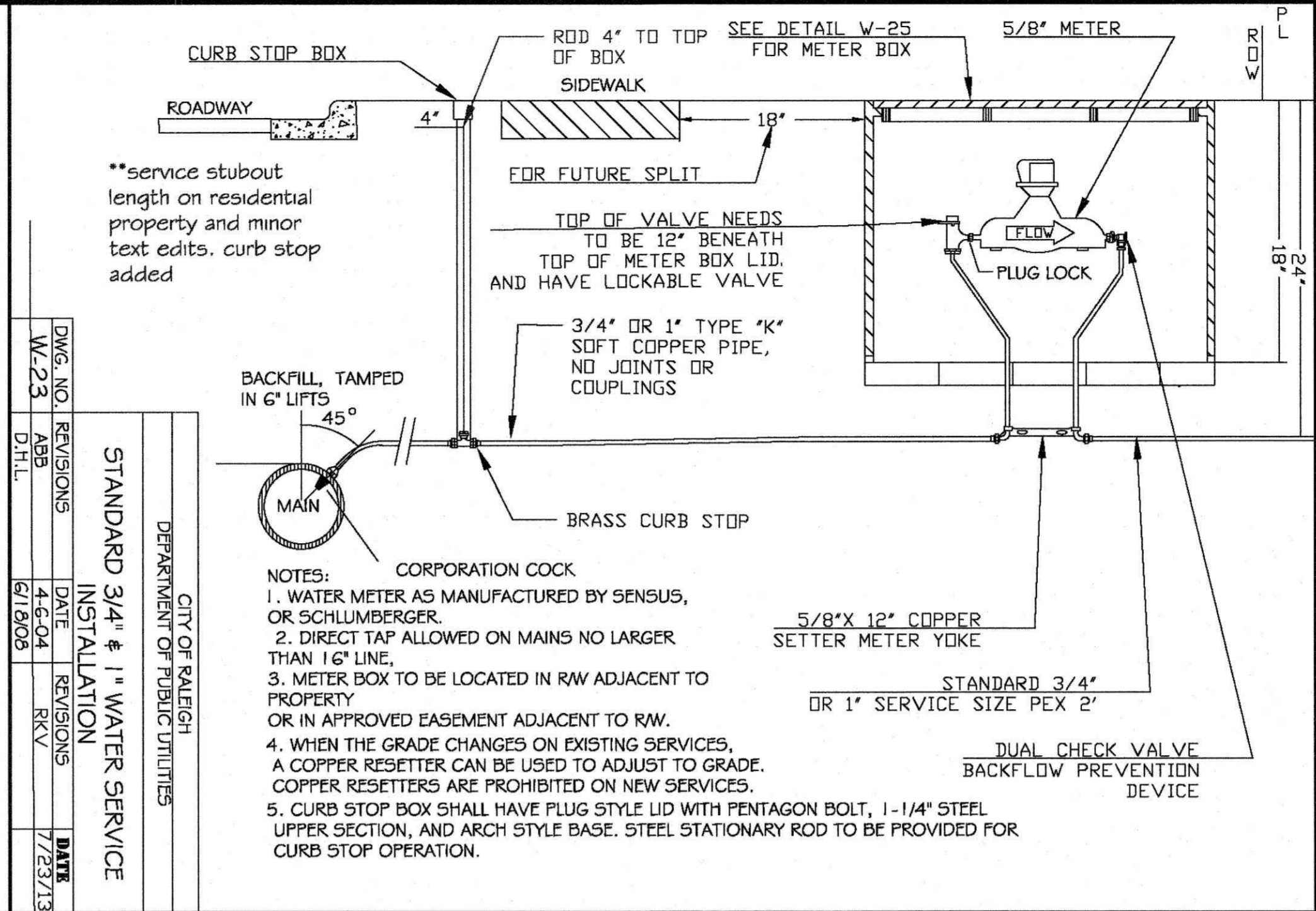
**C-11**



SANITARY SEWER CLEANOUT



CLEANOUT COVER ASSEMBLY TRAFFIC AREA



REVISIONS	ROLESVILLE TRC COMMENTS	KL	DATE	DESCRIPTION
1	2023-5-3			

PROJECT NO.	BUL-2103
FILENAME:	BUL2103-DTL3
DRAWN BY:	RCN
SCALE:	N.T.S.
DATE:	12-06-2022
SHEET NO.	C-12

COMMERCIAL  
SITE DESIGN

8912 CREEDMOOR ROAD  
RALEIGH, NORTH CAROLINA 27618

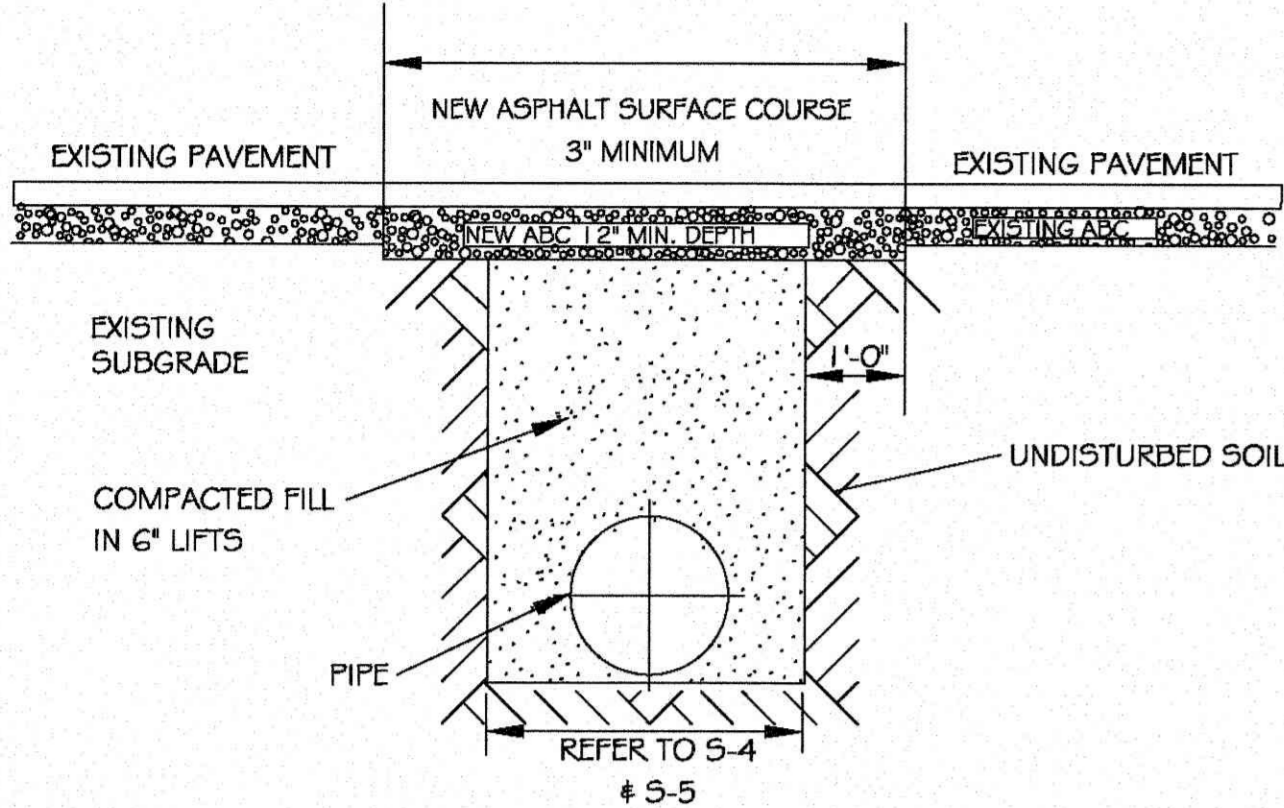
PROPOSED RETAIL AND  
RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

DETAILS

CLIENT:  
BULLARD RESTAURANT GROUP  
9131 ANSON WAY # 305  
RALEIGH, NC 27615

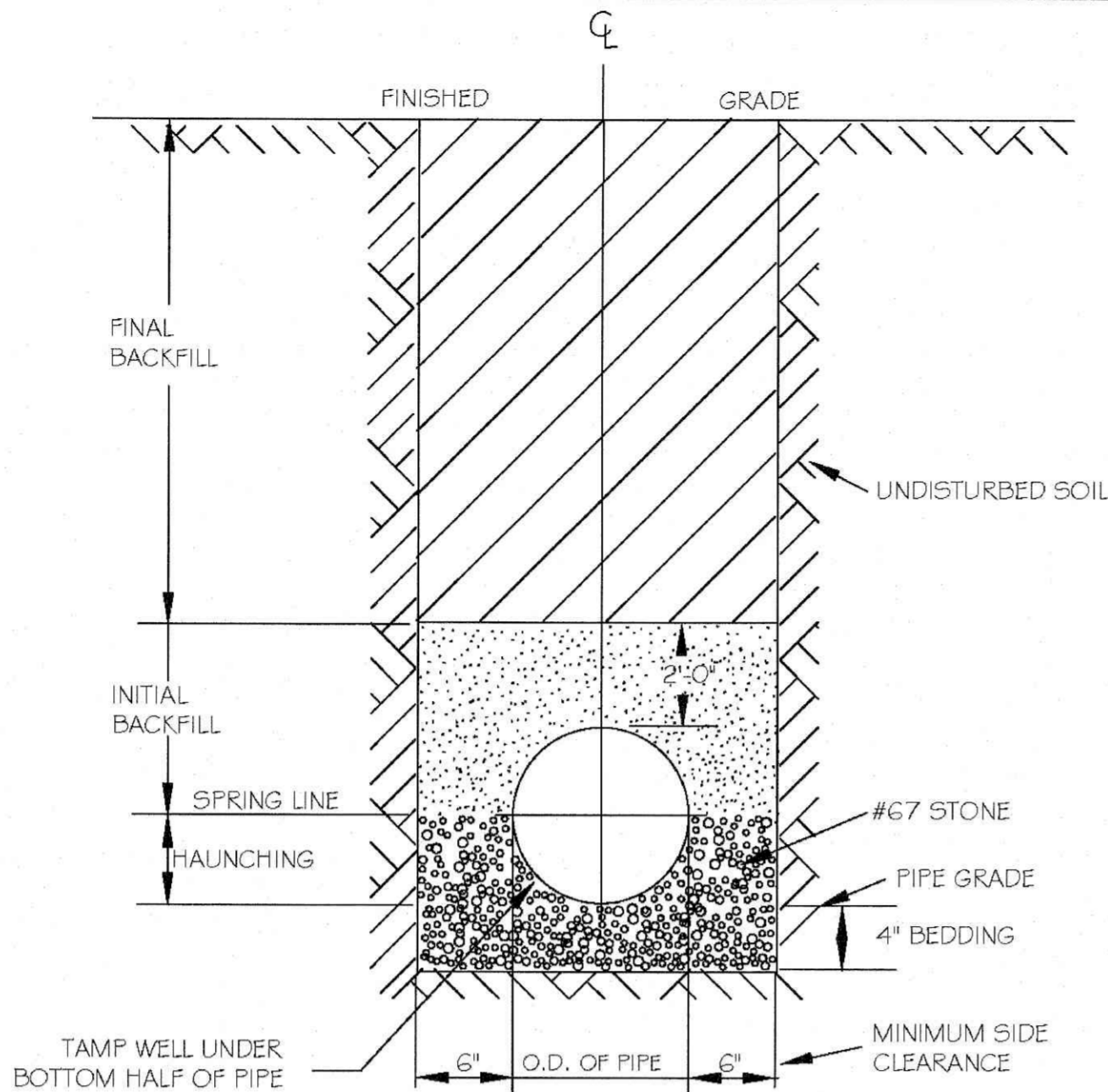
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FILENAME: BUL2103-DTL3  
DRAWN BY: RCN  
SCALE: N.T.S.  
DATE: 12-06-2022  
SHEET NO. C-12

X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-DTL4.dwg, 5/30/2023 1:56:10 PM, chris



- NOTES:
1. IN NCDOT MAINTAINED ROADWAYS ENCROACHMENT PAVEMENT PATCH REQUIREMENTS SHALL TAKE PRECEDENCE.
  2. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAWCUT MACHINE.
  3. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
  4. THE FINAL 1" OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT.
  5. THE ENTIRE THICKNESS AND VERTICAL EDGE OF CUT SHALL BE TACKED.
  6. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
  7. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
  8. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING (S-4 & S-5) FOR ADDITIONAL DETAILS.
  9. NO HAND PATCHING ALLOWED.
  10. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

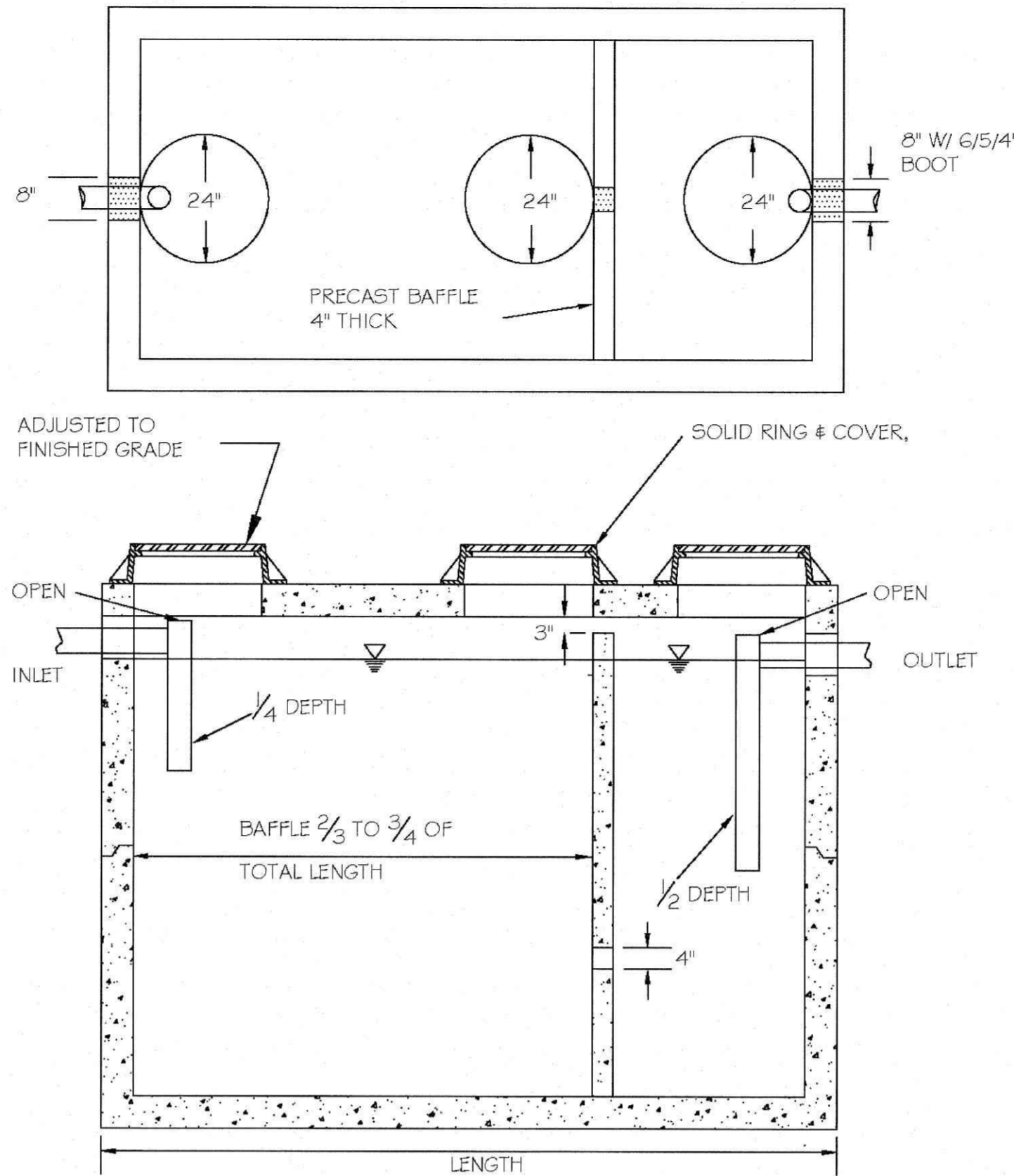
CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD ASPHALT PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-3	D.W.C.	11-1-99	A.B.B.	4-19-04
	RRH	3-30-00	J.P.S.	10-6-10



TYPICAL TRENCH BOTTOM DIMENSIONS FOR SDR 35 PVC GRAVITY PIPE

- NOTES:
1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
  2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
  3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
  4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS FOR PVC GRAVITY SEWER MAIN				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-5	TO NOTES	3-1-87	D.W.C.	9-3-99
		7-2-82	RRH	3-30-00



- NOTES:
1. REINFORCEMENT: H-20 BRIDGE LOADING (TRAFFIC RATED)
  2. CONCRETE: 4000 PSI @ 28 DAYS
  3. EARTH COVER: 0' TO 5' MAX.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
1000 GALLON GREASE INTERCEPTOR				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-40	RRH	3/9/00	D.H.L.	6/18/08
	ABB	3/19/04		

LOCALLY AVAILABLE SIZES	
INTERCEPTORS CAPACITY (GAL.)	SEPARATORS CAPACITY (GAL.)
300	1000
550	1200
750	1600
1000	
1200	
1500	
2000	
2500	
3000	
4000	
5000	
6000	
8000	

NOTES:

1. BAFFLE WALL LOCATED AT A DISTANCE FROM INLET WALL  $\frac{1}{4}$  TO  $\frac{3}{4}$  OF THE TOTAL LENGTH OF THE INTERCEPTOR OR SEPARATOR AS SHOWN ON DETAIL S-40.
2. EACH INTERCEPTOR OR SEPARATOR SHALL HAVE INLET AND OUTLET TEES. THE OUTLET TEE SHALL EXTEND 50% INTO THE LIQUID DEPTH. THE INLET TEE SHALL EXTEND 25% INTO THE LIQUID DEPTH. INLET AND OUTLET TEES MUST BE OPEN TO ALLOW THE COLLECTION OF F.O.G. SAMPLE.
3. ACCESS OPENINGS OVER EACH COMPARTMENT WITHIN THE INTERCEPTOR OR SEPARATOR SHALL BE 24 INCHES IN DIAMETER AND CONTAIN PICK HOLES. ALL COVERS SHALL BE CONSTRUCTED OF CAST IRON OR EQUIVALENT TRAFFIC BEARING MATERIAL. MANHOLE COVERS MUST EXTEND TO FINISH GRADE AND BE INSTALLED TO EXCLUDE THE ENTRANCE OF STORMWATER INTO THE INTERCEPTOR OR SEPARATOR.
4. FULL SIZE DUAL SWEEP CLEANOUTS SHALL BE INSTALLED ON THE INLET AND OUTLET SIDES OF THE INTERCEPTOR OR SEPARATOR.
5. INTERCEPTORS AND SEPARATORS MUST BE VENTED IN ACCORDANCE WITH THE NC STATE PLUMBING CODE.
6. CONCRETE: 4000 PSI @ 28 DAYS.
7. DESIGN: ACI 318 BUILDING CODE  
ASTM C1613-06 FOR GREASE INTERCEPTORS  
ASTM C913-02 FOR WATER AND WASTEWATER STRUCTURES  
ASTM C890-06 FOR MINIMAL STRUCTURAL DESIGN LOADING
8. INTERCEPTORS AND SEPARATORS SHALL BE DESIGNED TO WITHSTAND AN H-20 WHEEL LOAD.
9. INTERCEPTORS OR SEPARATORS MADE OF POLYETHYLENE OR FIBERGLASS SHALL INCLUDE A MINIMUM 12,000 PSI TENSILE STRENGTH, 19,000 PSI FLEXURAL STRENGTH, AND 800,000 PSI FLEXURAL MODULUS.
10. ALL INTERCEPTORS AND SEPARATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
DIMENSIONS: GREASE INTERCEPTORS OIL-WATER-SAND SEPARATORS				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-41	RRH	3/9/00	D.H.L.	6/18/08
	ABB	3/19/04		

REVIEWS		ROLESVILLE TRC COMMENTS		KL	
1	2023-5-3				
NO.	DATE	DESCRIPTION	BY		



CLIENT:  
BULLARD RESTAURANT GROUP  
9131 ANSON WAY, # 305  
RALEIGH, NC 27615

PROPOSED RETAIL AND RESTAURANT DEVELOPMENT  
6000 ROGERS ROAD  
ROLESVILLE, NORTH CAROLINA

DETAILS



PROJECT NO.	BUL-2103
FILENAME	BUL2103-DTL4
DRAWN BY:	RCN
SCALE:	N.T.S.
DATE	12-06-2022
SHEET NO.	C-13

## ELEVATION NOTES:

- 1 DARK BRONZE STOREFRONT SYSTEM SEE DOOR & WINDOW SCHEDULE FOR MORE INFORMATION.
- 2 EXTERIOR WALL SIGNAGE UNDER SEPARATE PERMIT AND TO BE PROVIDED BY TENANT'S SIGN VENDOR. EC TO COORDINATE WITH SIGN VENDOR AND PROVIDE EMPTY -BOX AND BLOCKING AT SIGN LOCATIONS AS REQUIRED. SEE ELEC DWGS.
- 3 METAL HANGER ROD CANOPY PROVIDED & INSTALLED BY GENERAL CONTRACTOR - UNDER SEPARATE PERMIT. G.C. TO PROVIDE BLOCKING AS REQUIRED.
- 4 HOLLOW METAL DOOR & FRAME, PAINT DOORS AND FRAMES-PAINTED AS SHOWN. REFER TO DRAWING A601.
- 5 ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DRAWINGS.
- 6 LINE OF ROOF BEYOND
- 7 METAL SNAP ON COMPRESSION EDGE PROVIDED GENERAL CONTRACTOR. 24 GAUGE - REFER TO DETAILS ON DRAWING A501.
- 8 "KNOX BOX" INSTALLED ON SIDE OF BRICK PIER PER LOCAL AUTHORITY REQUIREMENTS.
- 9 EMERGENCY LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS.
- 10 DECORATIVE EXTERIOR LIGHTS - REFER TO ELECTRICAL DRAWINGS.
- 11 EXTERIOR WALL PACK LIGHT - REFER TO ELECTRICAL DRAWINGS.

- 12 METAL OVERFLOW DECORATIVE NOZZLE FLANGE - REFER DETAIL 5/A502.
- 13 GAS METERS - REFER TO PLUMBING DRAWINGS.
- 14 INTERIOR ROOF DRAINS TO TIE TO STORM DRAIN - REFER CIVIL DRAWINGS BY OTHERS. REFER TO DETAIL 2/A502.
- 15 E.I.F.S. "V" GROOVE JOINT- REFER TO DETAIL 3/A501.
- 16 WOOD POST WRAPPED IN BREAK METAL TO MATCH STOREFRONT-REFER TO WINDOW SCHEDULE AND STRUCTURAL DRAWINGS.
- 17 20 GAUGE BREAK METAL TO MATCH COPING ON TOWER CAP - REFER TO WALL SECTIONS AND ENLARGED DETAILS.
- 18 PROJECTED FRAMING WRAPPER IN 20 GAUGE BREAK METAL TO MATCH M-1. REFER TO WALL SECTIONS.
- 19 METAL AWNING PROVIDED & INSTALLED BY GENERAL CONTRACTOR - UNDER SEPARATE PERMIT. G.C. TO PROVIDE BLOCKING AS REQUIRED.
- 20 METAL PATIO ROOF PROVIDED & INSTALLED BY GENERAL CONTRACTOR - UNDER SEPARATE PERMIT. G.C. TO PROVIDE BLOCKING AS REQUIRED.
- 21 BOLLARD - SEE DETAIL 8/A501.
- 22 USE 4" HEAD FRAME AT BRICK VENEER.

## EXTERIOR MATERIAL:

## EXTERIOR INSULATION &amp; FINISH SYSTEMS (EIFS)

E-1	TYPE: E.I.F.S. MANUFACTURER: DRYVIT COLOR: 6274 TWILIGHT GRAY FINISH: SANDPABLE FINE STYLE: OUTSULATION LOMD-3
-----	--

## METAL

M-1	TYPE: 2-PEICE SNAP-ON COMPRESSION EDGING MANUFACTURER: FIRESTONE UNA-GLAD COLOR: EXTRA DARK BRONZE
M-2	TYPE: METAL HANGER ROD CANOPY MANUFACTURER: BY GENERAL CONTRACTOR COLOR: EXTRA DARK BRONZE
M-3	TYPE: METAL AWNING MANUFACTURER: BY GENERAL CONTRACTOR COLOR: EXTRA DARK BRONZE
M-4	TYPE: METAL PATIO ROOF & COLUMN MANUFACTURER: BY GENERAL CONTRACTOR COLOR: EXTRA DARK BRONZE

## LIGHTING

L-1	EXTERIOR LIGHTING TYPE: CYLINDER LIGHT SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION
L-2	EXTERIOR LIGHTING TYPE: HALF ROUND SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION
L-3	EXTERIOR LIGHTING TYPE: EMERGENCY FIXTURE SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION

## PAINT

P-1	TYPE: PAINT MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7030 "ANEW GRAY"
-----	--

## BRICK VENEER

B-1	TYPE: TRAD. BRICK WITH 3/8" JOINT MANUFACTURER: GLEN-CERY COLOR: EBONITE VELOUR GROUT: DARK GRAY
B-2	TYPE: TRAD. BRICK WITH 3/8" JOINT MANUFACTURER: TRIANGLE BRICK COLOR: EVELYN BAY GRAY GROUT: LIGHT GRAY

## STONE VENEER

ST-1	TYPE: THIN MANUFACTURED STONE VENEER MANUFACTURER: PRESTIGE STONE COLOR: QUARRY CUT PORTLAND MIST GROUT: GRAY
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## FIBER CEMENT SIDING

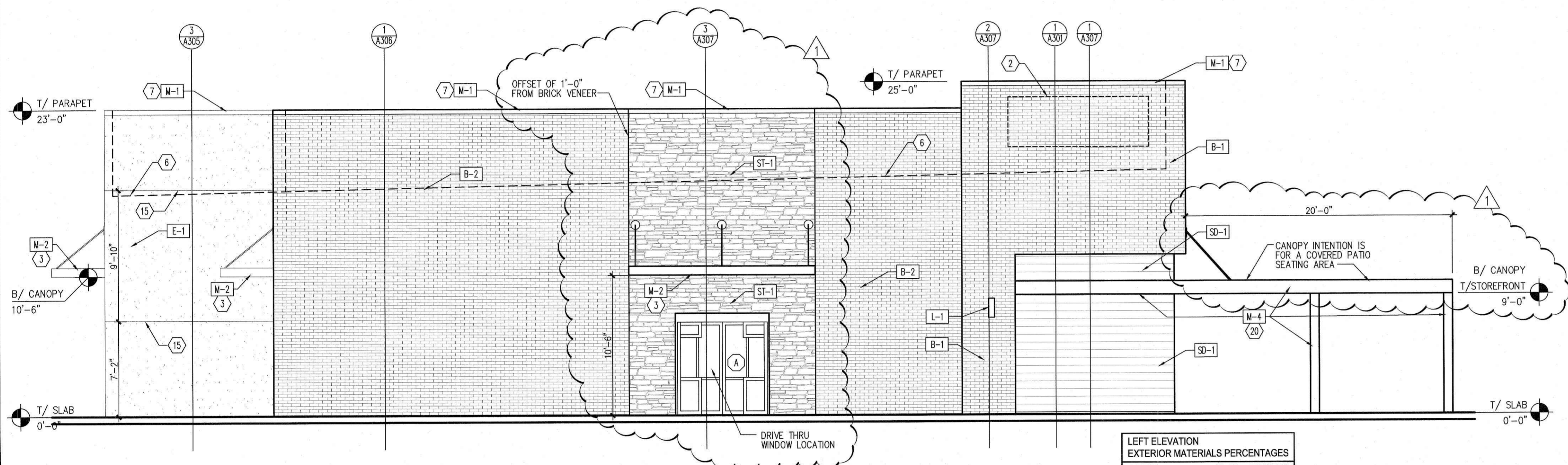
SD-1	TYPE: VINTAGEWOOD SIDING WITH BUILT-IN RAIN SCREEN MANUFACTURER: NICHHA COLOR: CEDAR
------	---

## STOREFRONT

SF-1	TYPE: THERMALLY BROKEN ALUMINUM FRAME WITH INSULATED GLAZING MANUFACTURER: KANWEER COLOR: DARK BRONZE
------	--

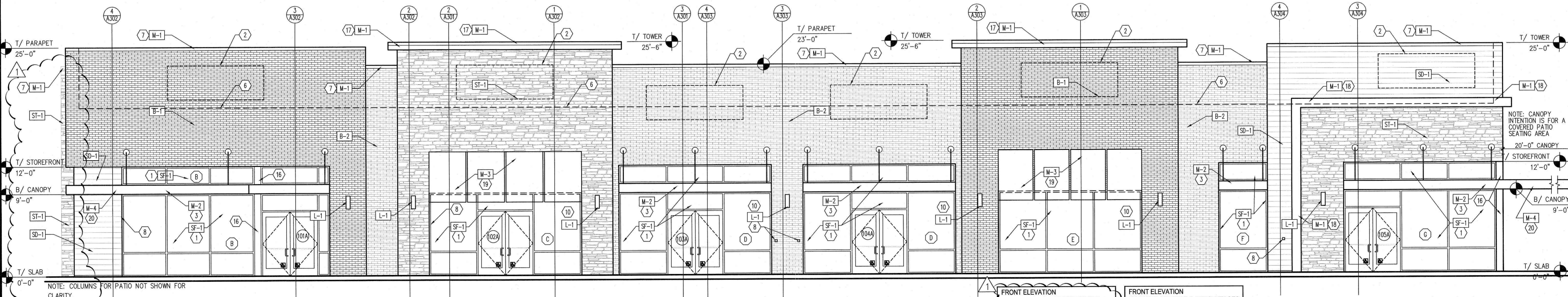
## GENERAL NOTES:

1. NEW SIGNAGE AND CANOPIES BY TENANT - TO BE FILED UNDER SEPARATE PERMIT - TYPICAL.
2. SUBMIT CANOPY SHOP DRAWINGS TO ARCHITECT FOR APPROVAL.
3. COORD. WITH CIVIL DRAWINGS FOR GENERAL GRADING AND FINAL SURFACE ELEVATIONS.



2 LEFT (SOUTH) ELEVATION  
A201 SCALE: 3/16" = 1'-0"

LEFT ELEVATION EXTERIOR MATERIALS PERCENTAGES		
MATERIAL	SQ. FT.	PERCENTAGE
E.I.F.S. (BEYOND)	284	15%
BRICK VENEER	1,222	63%
STONE VENEER	146	8%
FIBER CEMENT SIDING	131	7%
D/T WINDOW/DOORS	54	3%
AWNINGS/CANOPES/METAL	47	2%
TOTAL	1,884	100%



1 FRONT (EAST) ELEVATION  
A201 SCALE: 3/16" = 1'-0"

FRONT ELEVATION  
TRANSPARENCY REQUIREMENTS

MATERIAL	SQ. FT.	PERCENTAGE
STOREFRONT/DOORS	1,121	30%
TOTAL (TAKEN FROM SLAB TO BOTTOM OF DECK)	2,874	100%

NOTE: PER I.D.O. SECTION 6.8.2.2, NO MIRROR WINDOW  
GLAZING OR FAUX WINDOWS TO BE INSTALLED.

FRONT ELEVATION  
EXTERIOR MATERIALS PERCENTAGES

MATERIAL	SQ. FT.	PERCENTAGE
E.I.F.S.	0	0%
BRICK VENEER	1,534	41%
STONE VENEER	542	14%
FIBER CEMENT SIDING	253	7%
STOREFRONT/DOORS	1,121	30%
AWNINGS/CANOPES/METAL	302	8%
TOTAL	3,752	100%

LMHT Project No. 22245

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ARCHITECT AND MAY NOT BE REPRODUCED OR  
USED WITHOUT HIS WRITTEN PERMISSION.

LMHT ASSOCIATES  
7205 ACCORDS ROAD, 2ND FLOOR,  
RALEIGH, NC 27617  
Phone: 919.544.0087 Fax: 919.544.9999



5/9/23

PROJECT: RETAIL SHOPS  
6000 ROGERS ROAD  
ROLESVILLE, NC 27571  
DRAWING: EXTERIOR ELEVATIONS

## Revisions

REVISION DATE  
1 PLANNING COMMENTS  
5/9/2023

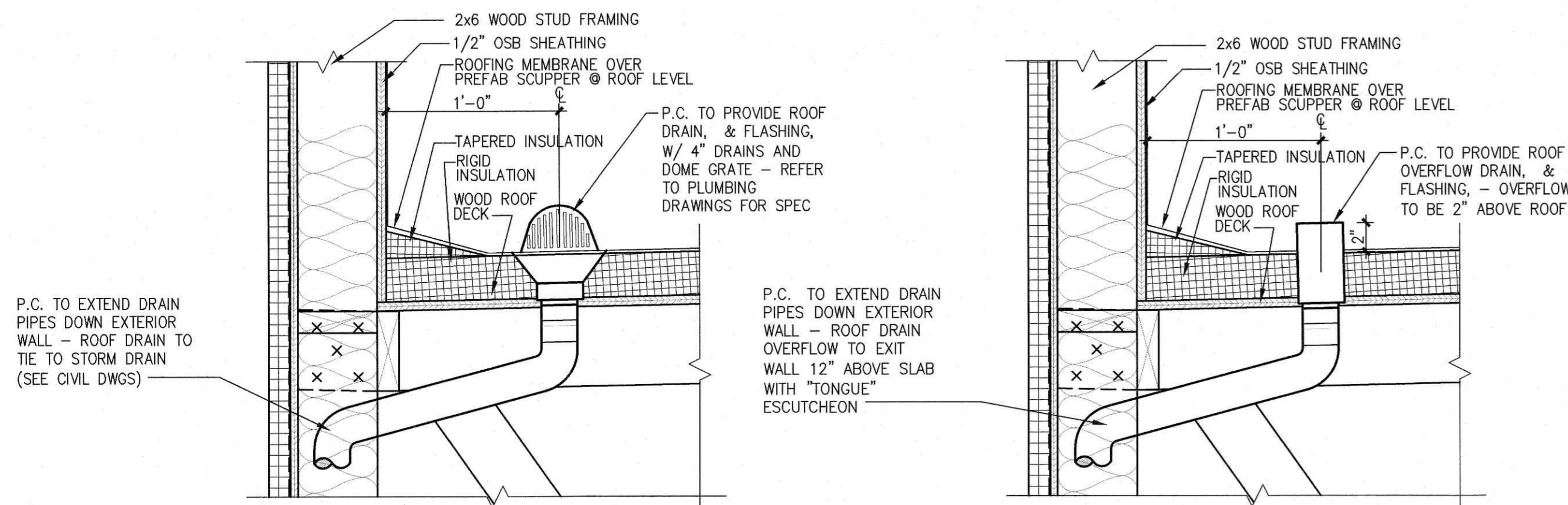
PROJECT DATE  
2/21/2023

Drawn By  
MTP

Checked By  
GRL

Sheet No.

A201



**4 INTERNAL ROOF DRAIN**  
A202 SCALE: 1 1/2" = 1'-0"

**3 INTERNAL ROOF OVERFLOW**  
A202 SCALE: 1 1/2" = 1'-0"

## ELEVATION NOTES:

- 1 DARK BRONZE STOREFRONT SYSTEM SEE DOOR & WINDOW SCHEDULE FOR MORE INFORMATION.
- 2 EXTERIOR WALL SIGNAGE UNDER SEPARATE PERMIT AND TO BE PROVIDED BY TENANT'S SIGN VENDOR. EC TO COORDINATE WITH SIGN VENDOR AND PROVIDE EMPTY L-BOX AND BLOCKING AT SIGN LOCATIONS AS REQUIRED. SEE ELEC DWGS.
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- 8 "KNOX BOX" INSTALLED ON SIDE OF BRICK PIER PER LOCAL AUTHORITY REQUIREMENTS.
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- 10 DECORATIVE EXTERIOR LIGHTS - REFER TO ELECTRICAL DRAWINGS.
- 11 EXTERIOR WALL PACK LIGHT - REFER TO ELECTRICAL DRAWINGS.

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- 13 GAS METERS - REFER TO PLUMBING DRAWINGS.
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## EXTERIOR MATERIAL:

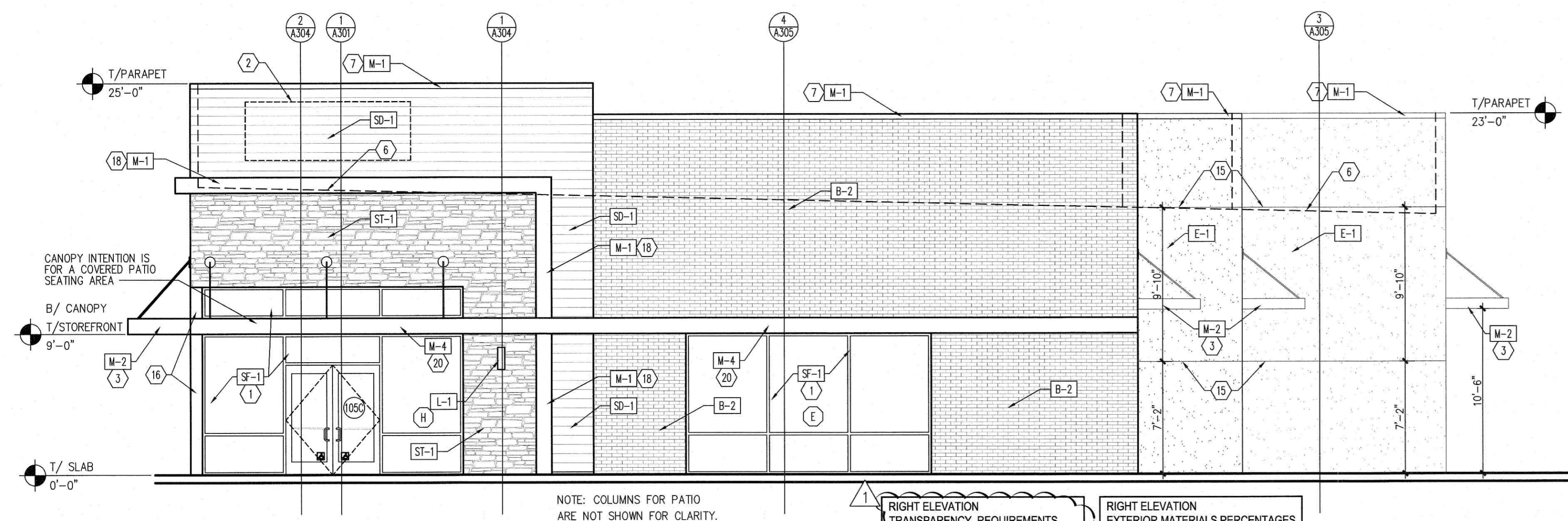
EXTERIOR INSULATION & FINISH SYSTEMS (EIFS)	
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METAL	
M-1	TYPE: 2-PIECE SNAP-ON COMPRESSION EDGING MANUFACTURER: FIRESTONE UNA-CLAD COLOR: EXTRA DARK BRONZE
M-2	TYPE: METAL HANGER ROD CANOPY MANUFACTURER: BY GENERAL CONTRACTOR COLOR: EXTRA DARK BRONZE
M-3	TYPE: METAL AWNING MANUFACTURER: BY GENERAL CONTRACTOR COLOR: EXTRA DARK BRONZE
M-4	TYPE: METAL PATIO ROOF & COLUMN MANUFACTURER: BY GENERAL CONTRACTOR COLOR: EXTRA DARK BRONZE
LIGHTING	
L-1	EXTERIOR LIGHTING TYPE: CYLINDER LIGHT SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION
L-2	EXTERIOR LIGHTING TYPE: HALF ROUND SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION
L-3	EXTERIOR LIGHTING TYPE: EMERGENCY FIXTURE SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION

## PAINT

P-1	TYPE: PAINT MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7030 "ANEW GRAY"
BRICK VENEER	
B-1	TYPE: TRAD. BRICK WITH 3/8" JOINT MANUFACTURER: GLEN-GERY COLOR: EBONITE VELOUR GROUT: DARK GRAY
B-2	TYPE: TRAD. BRICK WITH 3/8" JOINT MANUFACTURER: TRIANGLE BRICK COLOR: EVELYN BAY GRAY GROUT: LIGHT GRAY
STONE VENEER	
ST-1	TYPE: THIN MANUFACTURED STONE VENEER MANUFACTURER: PRESTIGE STONE COLOR: QUARRY CUT PORTLAND MIST GROUT: DARK GRAY
FIBER CEMENT SIDING	
SD-1	TYPE: VINTAGEWOOD SIDING WITH BUILT-IN RAIN SCREEN MANUFACTURER: NICHHA COLOR: CEDAR
STOREFRONT	
SF-1	TYPE: THERMALLY BROKEN ALUMINUM FRAME WITH INSULATED GLAZING MANUFACTURER: KANWEER COLOR: DARK BRONZE

## GENERAL NOTES:

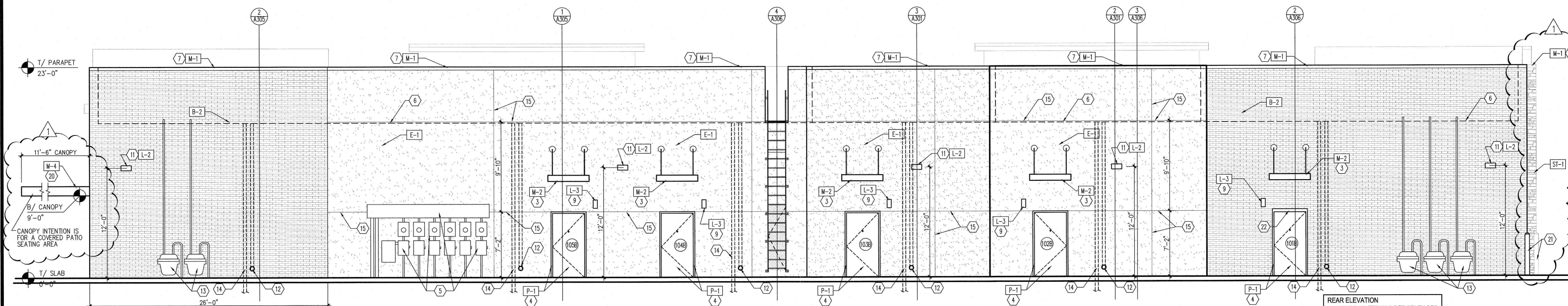
1. NEW SIGNAGE AND CANOPIES BY TENANT - TO BE FILED UNDER SEPARATE PERMIT - TYPICAL.
2. SUBMIT CANOPY SHOP DRAWINGS TO ARCHITECT FOR APPROVAL.
3. COORD. WITH CIVIL DRAWINGS FOR GENERAL GRADING AND FINAL SURFACE ELEVATIONS.



**2 RIGHT (NORTH) ELEVATION**  
A202 SCALE: 3/16" = 1'-0"

RIGHT ELEVATION TRANSPARENCY REQUIREMENTS		
MATERIAL	SQ. FT.	PERCENTAGE
STOREFRONT/DOORS	332	31%
TOTAL (TAKEN FROM SLAB TO BOTTOM OF DECK)	1,071	100%
NOTE: PER LDO SECTION 6.8.2.C, NO MIRROR WINDOW GLAZING OR TALK WINDOWS TO BE INSTALLED.		

RIGHT ELEVATION EXTERIOR MATERIALS PERCENTAGES		
MATERIAL	SQ. FT.	PERCENTAGE
E.I.F.S. (BEYOND)	439	23%
BRICK VENEER	611	33%
STONE VENEER	163	10%
FIBER CEMENT SIDING	193	10%
STOREFRONT/DOORS	332	18%
AWNINGS/CANOPIES/METAL	111	6%
TOTAL:	1,869	100%



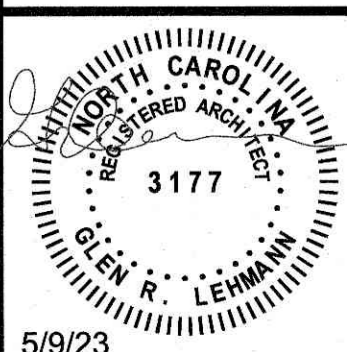
**1 REAR (WEST) ELEVATION**  
A202 SCALE: 3/16" = 1'-0"

REAR ELEVATION EXTERIOR MATERIALS PERCENTAGES		
MATERIAL	SQ. FT.	PERCENTAGE
E.I.F.S.	2,056	57%
BRICK VENEER	1,351	38%
STONE VENEER	0	0%
FIBER CEMENT SIDING	0	0%
STOREFRONT	136	4%
H.W. DOORS	15	1%
AWNINGS/CANOPIES/METAL	3,558	100%

LMHT Project No. 22245

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5/9/23

PROJECT: **RETAIL SHOPS**  
6000 ROGERS ROAD  
ROLESVILLE, NC 27571  
DRAWING: EXTERIOR ELEVATIONS

Revisions	
REVISION DATE	
PLANNING COMMENTS	5/9/2023
PROJECT DATE	
2/21/2023	
Drawn By	MTP
Checked By	GRL
Sheet No.	A202

