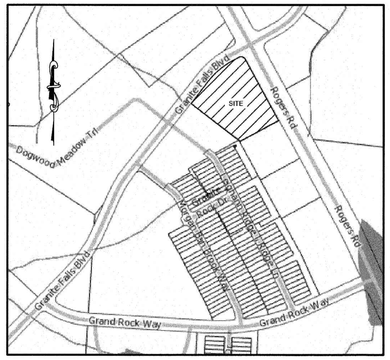
SDP-23-02
V1 Submittal
Architectural Sheets A201 and A202 added to this for review.

PROPOSED RETAIL AND RESTAURANT DEVELOPMENT



VICINITY MAP
NTS

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

SITE ADDRESS: 6000 ROGERS ROAD
ROLESVILLE, NORTH CAROLINA

CSD PROJECT NUMBER: BUL-2103

#1 - PLEASE SUBMIT STORM PACKAGE SHOWING 10-YEAR HGLS

SITE INFORMATION	
OWNER:	WOODROW MARLOE P.O.BOX 34 CHARLOTTE, NC 28433 - 0034
DEVELOPER:	BULLARD RESTAURANT GROUP 9131 ANSON WAY, 305 RALEIGH, NC 27615
DESIGNER:	SAMBATEK NC PC 8312 CREEDMOOR ROAD RALEIGH, NORTH CAROLINA 27613 PHONE: (919) 848-6121
ZONING:	COMMERCIAL OUTLYING - SPECIAL USE DISTRICT (SETBACK BELOW FOLLOW GC ZONING REGULATIONS
LOT 7 EXISTING USE:	VACANT
LOT 7 PROPOSED USE:	RETAIL / RESTAURANT
SITE ADDRESS:	6000 ROGERS ROAD
PARCEL IDENTIFICATION NUMBER:	1759714313
PARKING REQUIREMENTS: RESTAURANT: RETAIL:	MINIMUM: 2.5 PER 1,000 SF (OUTDOOR SEATING INCLUDED - 2,036 SF) 7,854 SF / 1,000 SF X 2.5 = 20 SPACES MAXIMUM: 10 PER 1,000 SF (OUTDOOR SEATING INCLUDED - 2,036 SF) 7,854 SF / 1,000 SF X 10 = 79 SPACES MINIMUM: 2.5 PER 1,000 SF 4,389 SF / 1,000 SF = 4 SPACES MAXIMUM: 7.5 PER 1,000 SF 4,389 SF / 1,000 SF X 7.5 = 33 SPACES TOTAL SPACES REQUIRED: MINIMUM = 24 SPACES MAXIMUM = 112 SPACES
PARKING PROVIDED:	81 REGULAR SPACES 4 HANDICAP SPACES 85 TOTAL SPACES
BUILDING SETBACKS:	FRONT: 20 FEET RIGHT CORNER: 25 FEET LEFTSIDE: 15 FEET REAR: 35 FEET
LANDSCAPE BUFFERS:	FRONT: 10 FEET RIGHT SIDE: 10 FEET LEFT SIDE: 10 FEET REAR: 15 FEET (TYPE 2 WITH FENCE)
TOTAL SITE AREA: DISTURBED AREA: EXISTING IMPERVIOUS AREA: PROPOSED IMPERVIOUS AREA:	90,092 SF OR 2.07 ACRES 73,665 SF OR 1.69 ACRES 2,557 SF OR 0.06 ACRES OR 4% 59,240 SF OR 1.36 ACRES OR 66%
PROPOSED BUILDING AREA:	10,207 SF (TOTAL)
WATER:	CITY OF RALEIGH PUBLIC UTILITIES
SEWER:	CITY OF RALEIGH PUBLIC UTILITIES

SHEET INDEX

REVISIONS:

NO.	DATE	DESCRIPTION	BY
1	.	.	.

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

APPROVED

EROSION CONTROL ☐ S-_____

STORMWATER MGMT. ☐ S-_____

FLOOD STUDY ☐ S-_____

DATE_____

WAKE COUNTY NORTH CAROLINA EFFECTIVE: 06/2015

ENVIRONMENTAL CONSULTANT SIGNATURE

SAMBATEK NC P.C. REGISTERED CORPORATION C-4993 RALEIGH, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 24501 ENGINEER WILLIAM J. CHETT

COMMERCIAL SITE DESIGN
A Sambatek Company
8312 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27613
(919) 848-6121, FAX: (919) 848-5741
WWW.CSITEDESIGN.COM

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nc811.org or 1-800-632-4949

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.

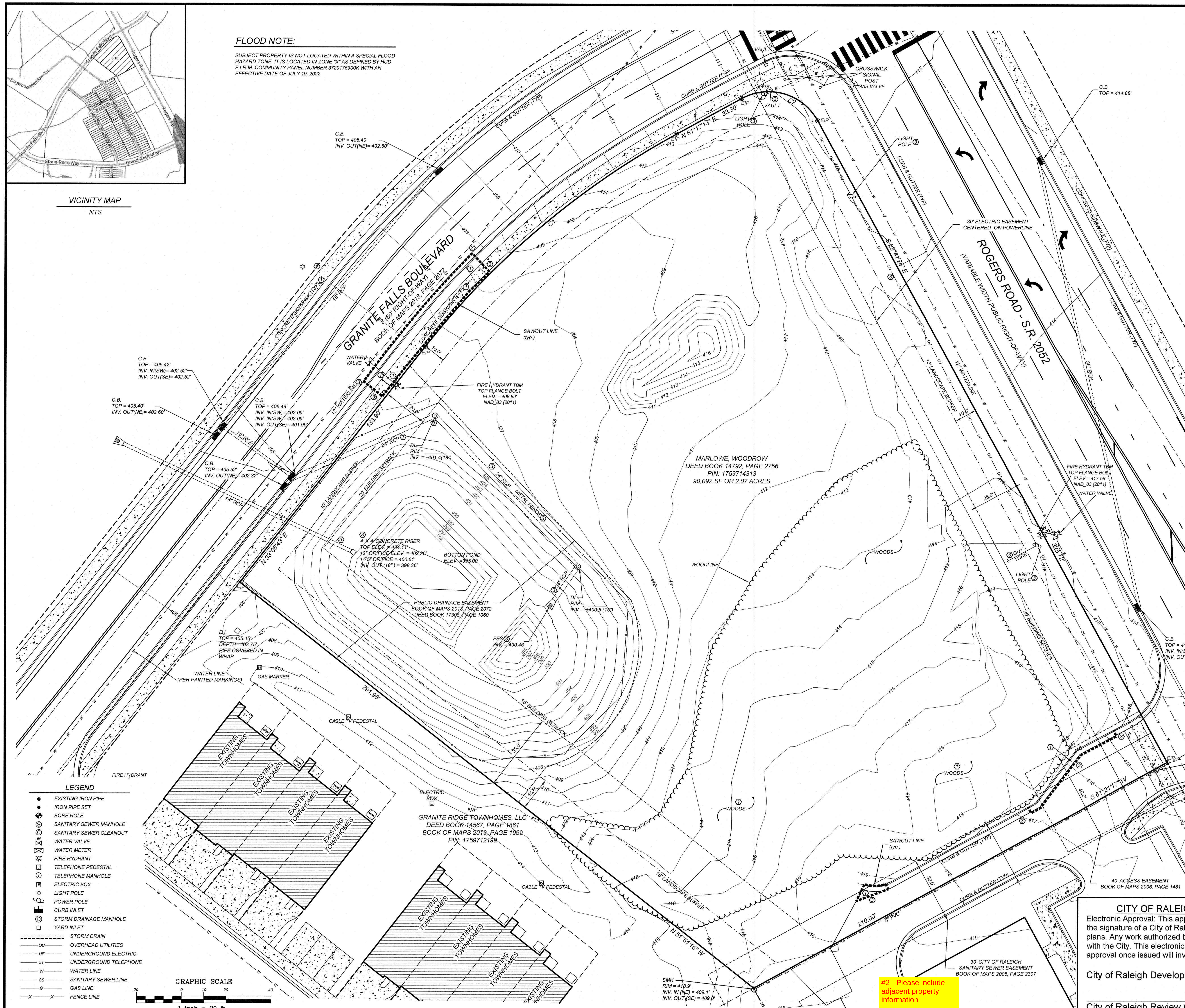
City of Raleigh Development Approval

_____
City of Raleigh Review Officer

X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-CS.dwg, 2/23/2023 2:01:28 PM, chrisn

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



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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City of Raleigh Review Officer

REVISIONS

NO.	DATE	DESCRIPTION

COMMERCIAL SITE DESIGN
A Sambatek Company
8312 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27613
(919) 848-6121, FAX: (919) 848-3741
WWW.CSITEDESIGN.COM

CLIENT:
BULLARD RESTAURANT GROUP
9131 ANSON WAY, # 305
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-DP.dwg, 2/23/2023 7:18:42 AM, chrisn

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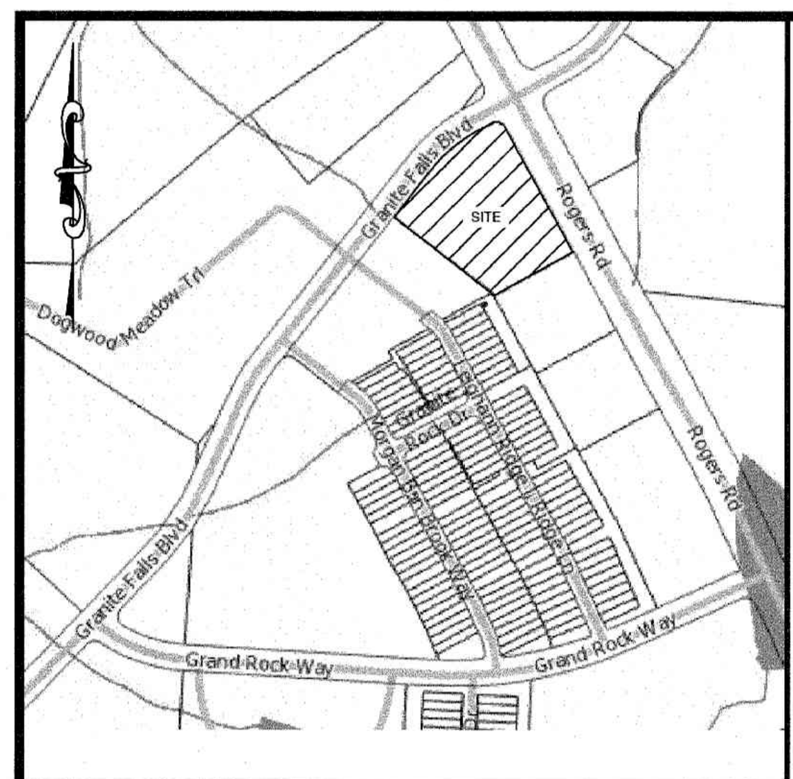

VICINITY MAP

NTS

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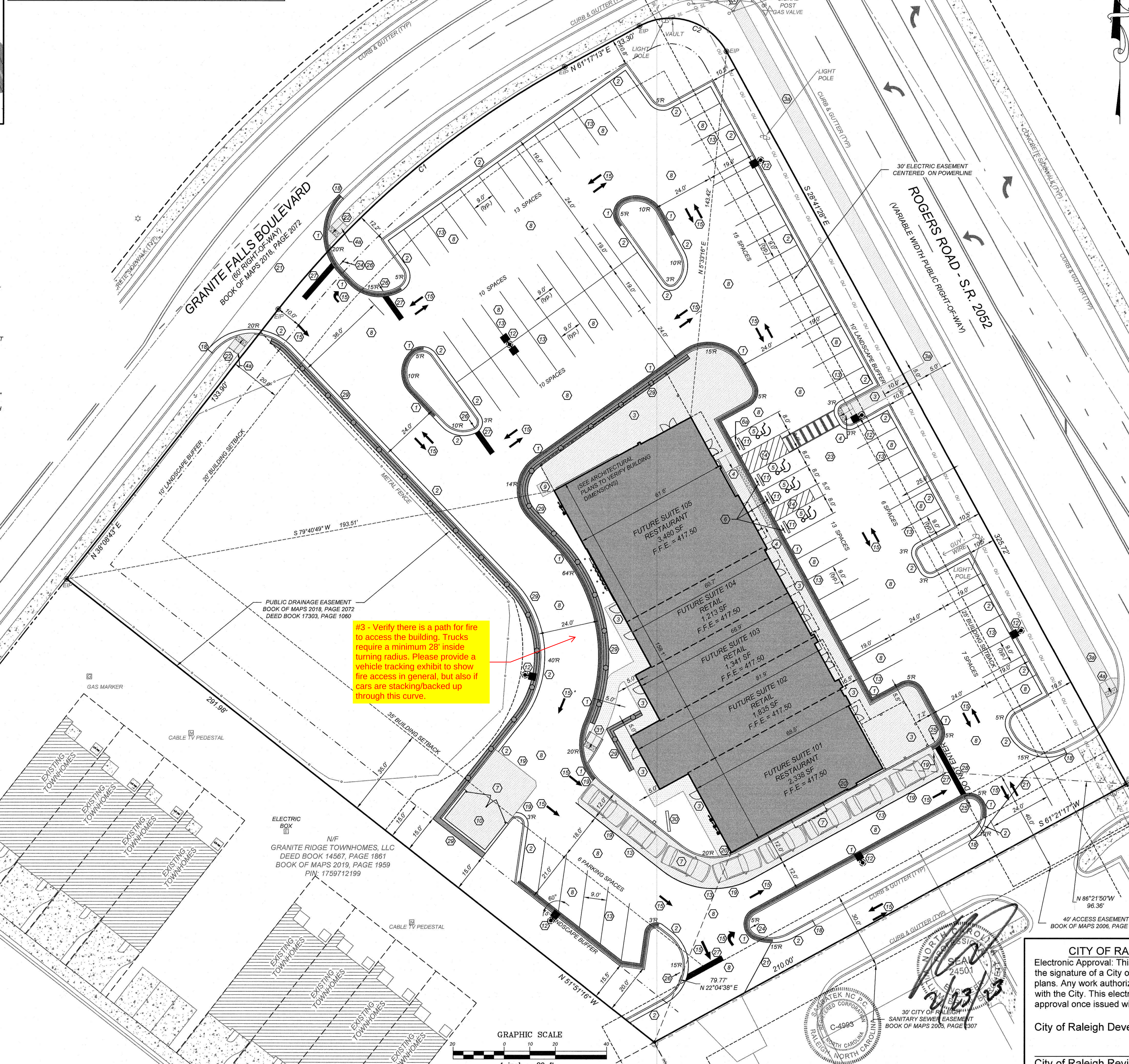

#3 - Verify there is a path for fire to access the building. Trucks require a minimum 28' inside turning radius. Please provide a vehicle tracking exhibit to show fire access in general, but also if cars are stacking/backed up through this curve.

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

3a. CONSTRUCT CONCRETE SIDEWALK PER NCDOT STANDARDS & SPECIFICATIONS

4. CONSTRUCT CONCRETE HANDICAP RAMP PER DETAIL SHEET

4a. CONSTRUCT CONCRETE HANDICAP RAMP PER NCDOT STANDARDS & SPECIFICATIONS

5. HANDICAP PARKING STALL
6. INSTALL HANDICAP PARKING SIGN PER DETAIL SHEET

6a. INSTALL "VAN ACCESSIBLE" PARKING SIGN PER DETAIL SHEET

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

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

SITE LEGEND

- SPILL CURB
- HANDICAP RAMP
- HANDICAP STALL
- CONCRETE
- PROPERTY LINE
- SIGN
- BOLLARD
- EX. FIRE HYDRANT
- —X—X— FENCE
- POLE MOUNTED AREA LIGHT
- PROPERTY CORNER
- F.F.E. = XXX.XX FINISH FLOOR ELEVATION

GENERAL NOTES:

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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
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. 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.
22. ALL LOT STRIPING AND DIRECTIONAL ARROWS TO BE WHITE REFLECTIVE MARKINGS AND SHALL CONFORM TO LOCAL REGULATIONS.
23. 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.
24. 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.
25. 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.
26. 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.
27. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS.
28. ALL PARKING LOT DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
29. CONTRACTOR SHALL COORDINATE EXACT SIZE OF HVAC CONCRETE PADS WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS FOR DETAILS.
30. ALL SEEDING, TEMPORARY AND PERMANENT, TO BE INSTALLED TO LOCAL REGULATIONS AND STANDARD PRACTICES.
31. ALL ROAD WORK SHALL BE PERFORMED IN ACCORDANCE WITH "THE CURRENT EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS".
32. ANY AND ALL QUANTITIES SHOWN OR IMPLIED ON THESE PLANS ARE FOR ESTIMATION PURPOSES ONLY.
33. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE IRRIGATION CONTRACTOR, FOR IRRIGATION SLEEVE SIZE FOR IRRIGATION SYSTEM.
34. 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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NO.	DATE	DESCRIPTION	BY

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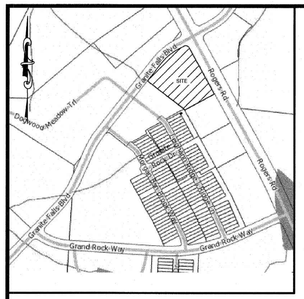
PROPOSED RETAIL AND RESTAURANT DEVELOPMENT
6000 ROGERS ROAD
ROLESVILLE, NORTH CAROLINA

SITE PLAN

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



VICINITY MAP
NTS

CONTRACTOR TO INSTALL ROOF DRAINS AROUND BUILDING AND EXTEND TO OUTLET AT 2% MINIMUM. COORDINATE DOWNSPOUT LOCATIONS WITH ARCHITECT.

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 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 (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 DISLODGED. 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 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.

#4 - Show how sediment trap will be graded in

SEDIMENT TRAP ST-1

DISTURBED AREA =	1.25 ac.
TOTAL DRAINAGE AREA =	1.25 ac.
SEDIMENT STORAGE DEPTH =	3.5 ft
DEPTH TO CREST OF SPILLWAY =	4.0 ft
DEPTH TO TOP OF BERM =	5.0 ft
BOTTOM LENGTH =	44.0 ft
BOTTOM WIDTH =	22.0 ft
TOP LENGTH =	64.0 ft
TOP WIDTH =	42.0 ft
LENGTH OF WEIR =	10.0 ft
STORAGE REQUIRED =	4500 cu. ft.
STORAGE PROVIDED =	5230 cu. ft.

MARLOWE, WOODROW
DEED BOOK 14792, PAGE 2756
PIN: 1759714313
90,092 SF OR 2.07 ACRES

GRAPHIC SCALE
20 0 10 20 40
1 inch = 20 ft.

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

GRADING/EROSION CONTROL LEGEND

- DROP INLET
- CURB INLET
- STORM PIPE
- XXX.XX TOP OF CURB / XXX.XX BOTTOM OF CURB
- HANDICAP AREA (2% MAX. SLOPE)
- SPILL CURB
- TW=XXX.XX GROUND AT TOP OF WALL / BW=XXX.XX GROUND AT BOTTOM OF WALL
- INLINE DRAIN
- RD ROOF DRAIN — 8" CORRUGATED PLASTIC, 5" MIN. COVER, 1% MIN. SLOPE, PVC IN TRAFFIC AREAS, CLEANOUTS LOCATED @ ALL BENDS
- SILT FENCE OUTLET
- INLET PROTECTION
- SF SILT FENCE
- TP TREE PROTECTION FENCE
- DIVERSION DITCH
- LD LIMITS OF DISTURBANCE
- FLARED END SECTION
- CONSTRUCTION ENTRANCE
- SEDIMENT TRAP

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

1. OBTAIN A LAND DISTURBING PERMIT. SCHEDULE A PRE-CONSTRUCTION MEETING.
2. 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.
3. 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

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.
5. 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.
6. 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

1. 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.
2. CONTRACTOR IS TO CONTACT NORTH CAROLINA "ONE CALL" AT 800-632-4949 FOR UNDERGROUND UTILITY LOCATION 48 HOURS PRIOR TO ANY DIGGING.
3. THE EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY EARTHWORK.
4. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
5. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED AND REPAIRED AT A MINIMUM OF WEEKLY BASIS AND AFTER EVERY RAIN EVENT.
6. 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.
7. CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
8. 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.
9. ALL CUT AND FILL SLOPES AND CHANNEL SIDESLOPES WHICH ARE NOT TO BE PAVED, SHALL BE SEEDED UNTIL A GOOD STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH:
   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 SEEDED:
      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 SAWDUST FOR UNIFORM SEEDING.
      3. ASPHALT MULCH 6 GALLONS PER 1,000 SQUARE FOOT. ALL SEEDING WILL BE MULCHED.
10. SEE LANDSCAPE PLAN FOR PERMANENT SEEDING.
11. 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	RYE (GRAIN)	120
	ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COSTAL PLAIN, KOREAN IN MOUNTAINS	50
SUMMER	GERMAN MILLET	40
	OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUNDAGRASS	
FALL	RYE (GRAIN)	120
	IS NOT TO EXTEND BEYOND JUNE MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE.	

SEEDING DATES:

LATE WINTER & EARLY SPRING	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			
NO.	DATE	DESCRIPTION	BY
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.			
.			

COMMERCIAL SITE DESIGN
A Sambatek Company
(919) 848-6021 FAX: (919) 848-7241
WWW.CSITEDESIGN.COM
8312 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27615

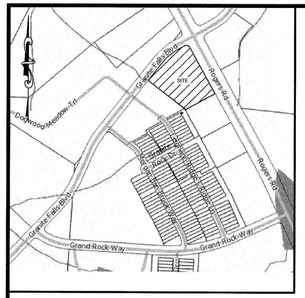
CLIENT:
BULLARD RESTAURANT GROUP
9131 ANSON WAY, # 305
RALEIGH, NC 27615

PROPOSED RETAIL AND RESTAURANT DEVELOPMENT
6000 ROGERS ROAD
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-ECP.dwg, 2/23/2023 10:36:24 AM, chrisn



VICINITY MAP
NTS

CONTRACTOR TO INSTALL ROOF DRAINS AROUND BUILDING AND EXTEND TO OUTLET AT 2% MINIMUM. COORDINATE DOWNSPOUT LOCATIONS WITH ARCHITECT.

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 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 SEDIMENT REMOVAL. 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 DISLODGED. 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 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.

GRAPHIC SCALE
20 0 10 20 40
1 inch = 20 ft.

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

GRADING/EROSION CONTROL LEGEND

- DROP INLET
- CURB INLET
- STORM PIPE
- XXX.XX TOP OF CURB / XXX.XX BOTTOM OF CURB
- HANDICAP AREA (2% MAX. SLOPE)
- SPILL CURB
- TW=XXX.XX GROUND AT TOP OF WALL / BW=XXX.XX GROUND AT BOTTOM OF WALL
- INLINE DRAIN
- RD ROOF DRAIN — 6" CORRUGATED PLASTIC, 3' MIN. COVER, 1% MIN. SLOPE, PVC IN TRAFFIC AREAS, CLEANOUTS LOCATED @ ALL BENDS
- SILT FENCE OUTLET
- INLET PROTECTION
- SF SILT FENCE
- TP TREE PROTECTION FENCE
- DIVERSION DITCH
- LD LIMITS OF DISTURBANCE
- FLARED END SECTION
- CONSTRUCTION ENTRANCE
- SEDIMENT TRAP

#6 - Please confirm there is a 2' clear zone from back of curb to fence/wall

#5 - MISSING RIM ELEVATION; SHOW PROPOSED INVERT

#5 - MISSING RIM ELEVATION; SHOW PROPOSED INVERT

#7 - Please confirm curb elevations; Is there a reason why this is not a 0.5' difference?

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

1. *OBTAIN A LAND DISTURBING PERMIT. SCHEDULE A PRE-CONSTRUCTION MEETING.*
2. *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.*
3. *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

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.
5. *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.
6. *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

1. *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.*
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6. *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.*
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8. *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.*
9. *ALL CUT AND FILL SLOPES AND CHANNEL SIDESLOPES WHICH ARE NOT TO BE PAVED, SHALL BE SEEDED UNTIL A GOOD STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH:*
   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 SEEDED:
   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 SAWDUST FOR UNIFORM SEEDING.
   3. ASPHALT MULCH 6 GALLONS PER 1,000 SQUARE FOOT. ALL SEEDING WILL BE MULCHED.
10. *SEE LANDSCAPE PLAN FOR PERMANENT SEEDING.*
11. *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	RYE (GRAIN)	120
	ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COSTAL PLAIN, KOREAN IN MOUNTAINS	50
SUMMER	GERMAN MILLET	40
	OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUNDAGRASS	
FALL	RYE (GRAIN)	120
	IS NOT TO EXTEND BEYOND JUNE MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE.	

SEEDING DATES:

LATE WINTER & EARLY SPRING	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

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City of Raleigh Development Approval

City of Raleigh Review Officer

NO.	DATE	DESCRIPTION	BY

REVISIONS

COMMERCIAL SITE DESIGN
A Sambatek Company
(919) 846-8221, FAX: (919) 846-7741
WWW.CSITEDESIGN.COM
8701 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27615

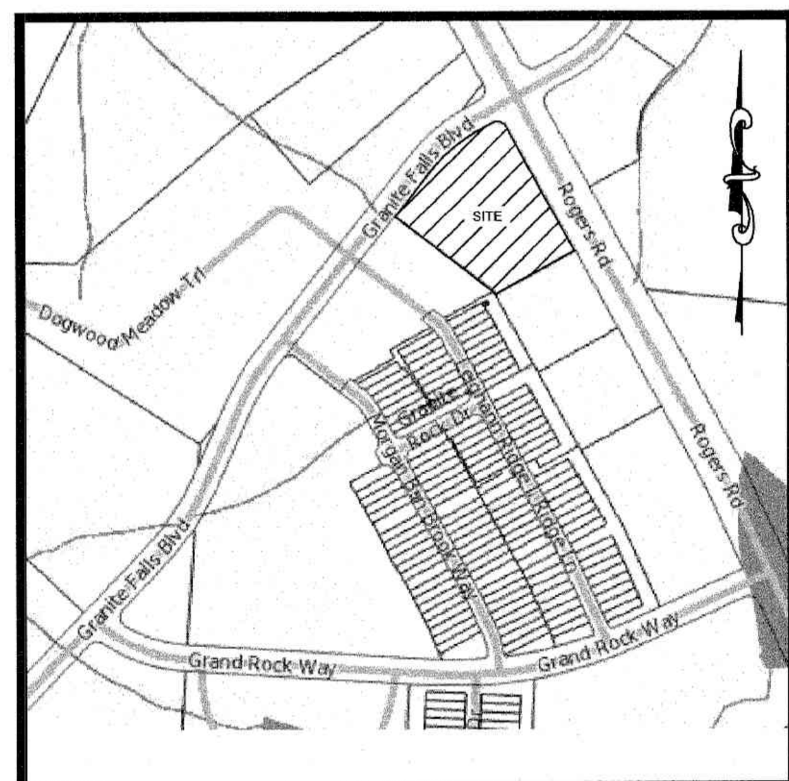
CLIENT:
BULLARD RESTAURANT GROUP
9131 ANSON WAY, # 305
RALEIGH, NC 27615

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

GRADING/EROSION CONTROL PLAN - PHASE II

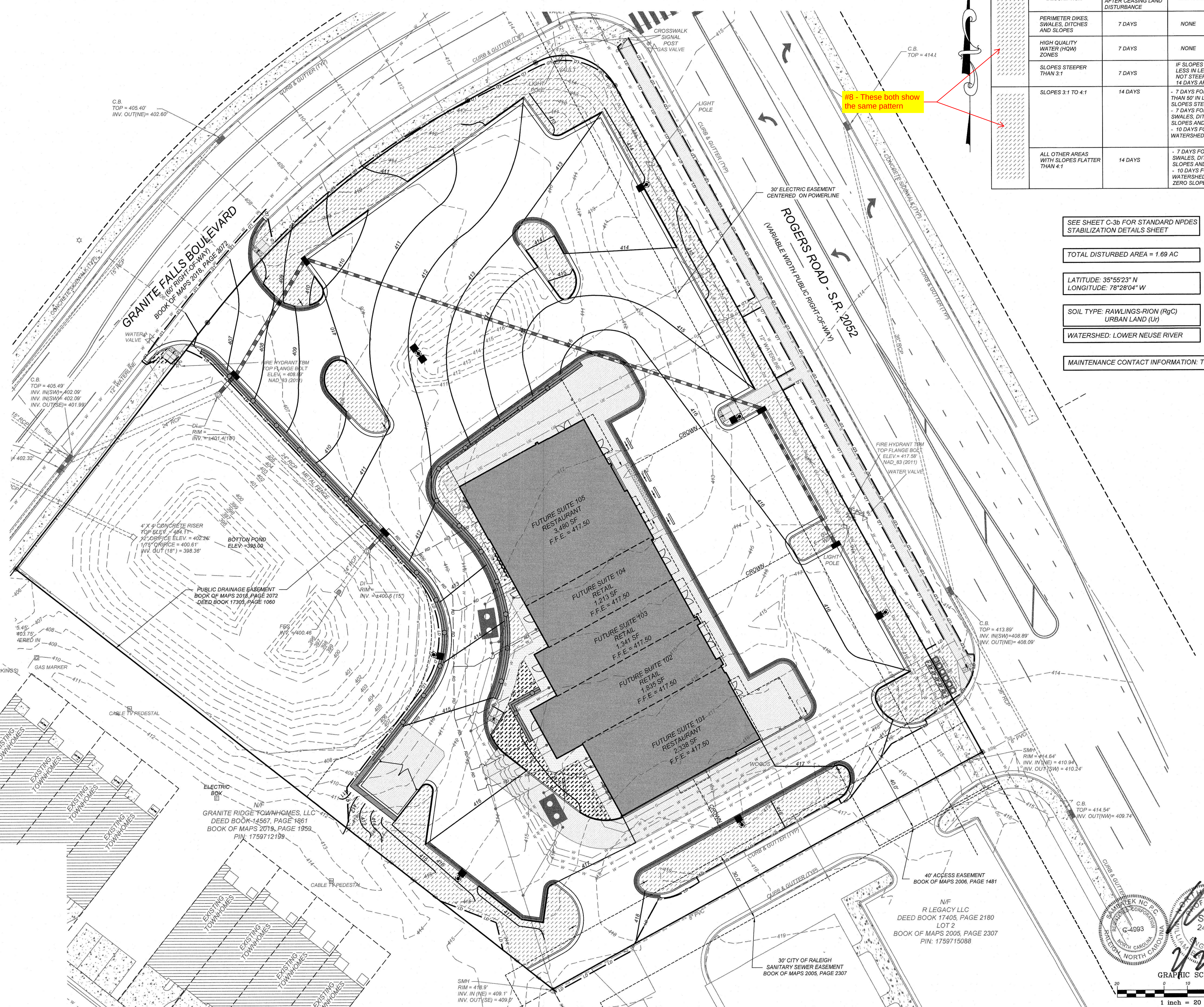
PROJECT NO:	BUL-2103
FILENAME:	BUL2103-GP
DRAWN BY:	RCN
SCALE:	1"= 20'
DATE:	12-06-2022
SHEET NO.	C-4

X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-GP.dwg, 2/23/2023 10:38:05 AM, chrisn



VICINITY MAP

NTS



LABEL	1) GROUND STABILIZATION		
	SITE AREA DESCRIPTION	STABILIZE WITHIN THIS MANY CALENDAR DAYS AFTER CEASING LAND DISTURBANCE	TIME FRAME VARIATIONS
	PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
	HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
	SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1. 14 DAYS ARE ALLOWED.
	SLOPES 3:1 TO 4:1	14 DAYS	- 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH AND WITH SLOPES STEEPERTHAN 4:1 - 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND HQW ZONES - 10 DAYS FOR FALLS LAKE WATERSHED
	ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	- 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND HQW ZONES - 10 DAYS FOR FALLS LAKE WATERSHED UNLESS THERE IS ZERO SLOPE.

SEE SHEET C-3b FOR STANDARD NPDES STABILIZATION DETAILS SHEET

TOTAL DISTURBED AREA = 1.69 AC

LATITUDE: 35°55'23" N
LONGITUDE: 78°28'04" W

SOIL TYPE: RAWLINGS-RION (RgC)
URBAN LAND (Ur)

WATERSHED: LOWER NEUSE RIVER

MAINTENANCE CONTACT INFORMATION: TBD

GRAPHIC SCALE

20 0 10 20 40

1 inch = 20 ft.

SAMBATEK NC P.C. REGISTERED CORPORATION C-4993 RALEIGH, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 24501 ENGINEER WILLIAM BRYANT BURCHETT

2/23/23

REVISIONS			
NO.	DATE	DESCRIPTION	BY
.	.	.	.

COMMERCIAL SITE DESIGN
A Sambatek Company
8312 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27613
(919) 848-6121, FAX: (919) 848-3741
WWW.CSITEDESIGN.COM

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

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

NPDES STABILIZATION PLAN

PROJECT NO.	BUL-2103
FILENAME:	NPDES
DRAWN BY:	RCN
SCALE:	1" = 20'
DATE:	12-06-2022
SHEET NO.	C-5

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

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

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

(a) This General Permit as well as the Certificate of Coverage, after it is received.

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

3. Documentation to be Retained for Three Years

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

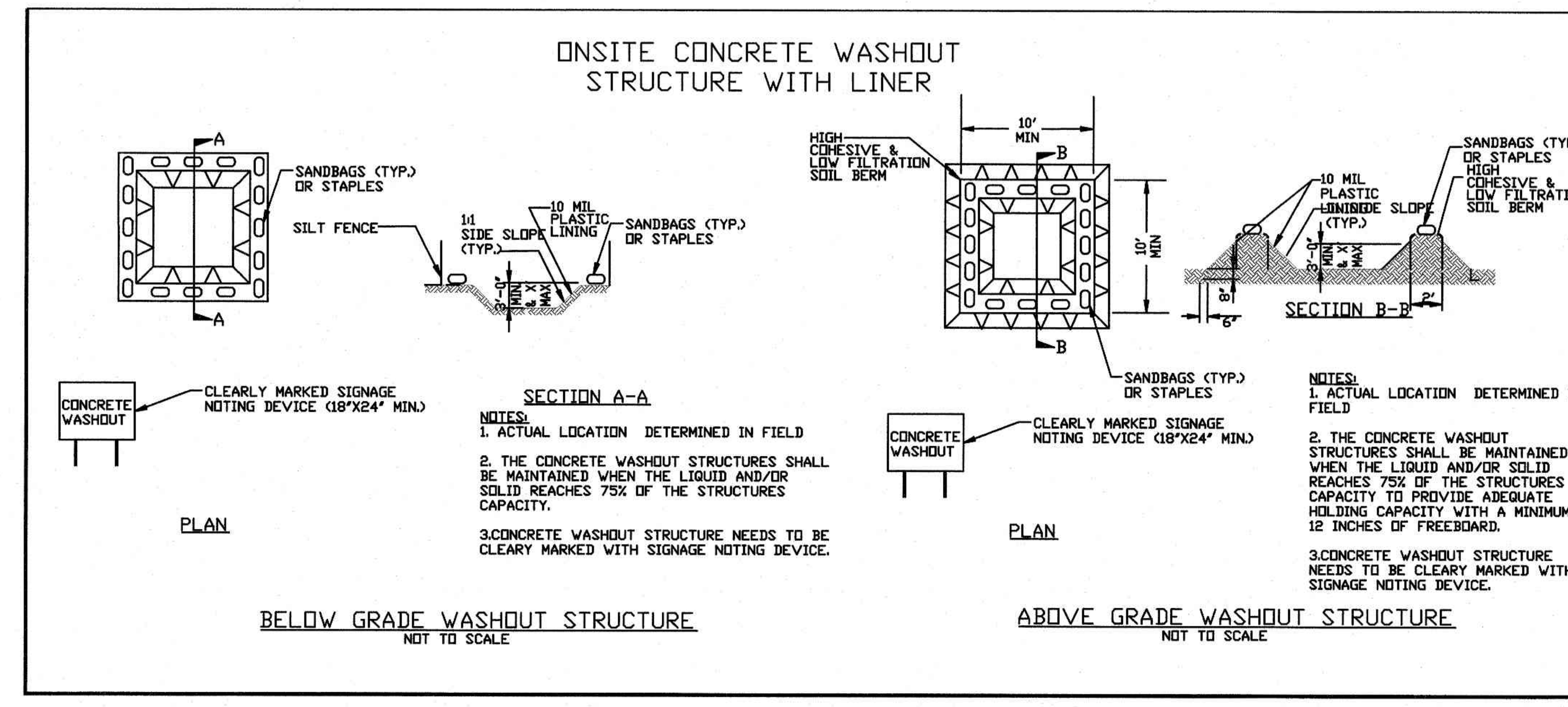
Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • 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.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

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 controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(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



C-4993
SEAL 24501

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

REVISIONS

NO.	DATE	DESCRIPTION	BY

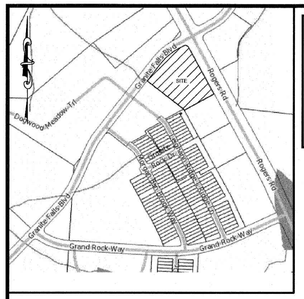
COMMERCIAL SITE DESIGN
A Sambatek Company
8312 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27613
(919) 848-6121, FAX: (919) 848-3741
WWW.CSITEDESIGN.COM

CLIENT:
BULLARD RESTAURANT GROUP
9131 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



VICINITY MAP
NTS

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.

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

UTILITY KEYNOTES:

1. 2" DOMESTIC WATER METER, CONTRACTOR SHALL COORDINATE WITH CITY.
2. 2" DOMESTIC REDUCED PRESSURE BACKFLOW PREVENTER IN ABOVE GRADE HEATED, INSULATED ENCLOSURE.
3. 2" DOMESTIC WATER SERVICE, CONTRACTOR SHALL COORDINATE WITH CITY.
4. 4" PVC SANITARY SEWER LINE @ 1/4" PER LINEAR FOOT SLOPE (MINIMUM), CONTRACTOR SHALL COORDINATE WITH CITY.
4a. 6" PVC SANITARY SEWER LINE @ 1/4" PER LINEAR FOOT SLOPE (MINIMUM), CONTRACTOR SHALL COORDINATE WITH CITY.
5. 4" SADDLE WITH 1 1/2" CORPORATION STOP, CONTRACTOR SHALL COORDINATE WITH CITY.
6. SANITARY SEWER CLEANOUT, SEE DETAIL SHEET.
7. TRAFFIC RATED SANITARY SEWER CLEANOUT, SEE DETAIL SHEET.
8. EXISTING FIRE HYDRANT.
9. TRANSFORMER PAD, CONTRACTOR SHALL COORDINATE LOCATION AND SIZE WITH ELECTRIC UTILITY.
10. 1500 GALLON GREASE TRAP, SEE DETAIL SHEETS.
11. 1" IRRIGATION WATER METER, CONTRACTOR SHALL COORDINATE WITH IRRIGATION CONTRACTOR.
12. 1" IRRIGATION REDUCED PRESSURE BACKFLOW PREVENTER IN ABOVE GRADE HEATED, INSULATED ENCLOSURE. CONTRACTOR SHALL COORDINATE WITH CITY.
13. POLE MOUNTED AREA LIGHT, SEE LIGHTING PLAN.
14. COORDINATE IRRIGATION CONNECTION WITH IRRIGATION CONTRACTOR.
15. UNDERGROUND ELECTRIC SERVICE, CONTRACTOR SHALL COORDINATE WITH ELECTRIC UTILITY.
16. UNDERGROUND TELEPHONE SERVICE, CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY.
17. GAS SERVICE, CONTRACTOR SHALL COORDINATE WITH GAS COMPANY.
18. IRRIGATION SLEEVES PER UTILITY LEGEND.
19. 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.
20. 3/4" DOMESTIC WATER METER, CONTRACTOR SHALL COORDINATE WITH CITY.
21. 3/4" DOMESTIC REDUCED PRESSURE BACKFLOW PREVENTER IN ABOVE GRADE HEATED, INSULATED ENCLOSURE.
22. 3/4" DOMESTIC WATER SERVICE, CONTRACTOR SHALL COORDINATE WITH CITY.

GRANITE FALLS BOULEVARD
(80' RIGHT-OF-WAY)
BOOK OF MAPS 2018, PAGE 2072

ROGERS ROAD - S.R. 2052
(VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)

FUTURE SUITE 105 RESTAURANT 3,480 SF F.F.E. = 417.50
FUTURE SUITE 104 RETAIL 1,213 SF F.F.E. = 417.50
FUTURE SUITE 103 RETAIL 1,341 SF F.F.E. = 417.50
FUTURE SUITE 102 RETAIL 1,835 SF F.F.E. = 417.50
FUTURE SUITE 101 RESTAURANT 2,338 SF F.F.E. = 417.50

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

EXISTING TOWNHOMES

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

30' ELECTRIC EASEMENT CENTERED ON POWERLINE

40' ACCESS EASEMENT
BOOK OF MAPS 2006, PAGE 1481

30' CITY OF RALEIGH SANITARY SEWER EASEMENT
BOOK OF MAPS 2005, PAGE 2307

UTILITY LEGEND

OU — OVERHEAD UTILITIES	SEWER CLEAN OUT
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
IRRIGATION SLEEVE (2) 4" PVC, COORDINATE WITH IRRIGATION CONTRACTOR	SIAMESE CONNECTION
UTILITY POLE	WATER VALVE
	GREASE TRAP

GRAPHIC SCALE
20 0 10 20 40
1 inch = 20 ft.

NOTE:
1. SEE SHEET C-12 FOR UTILITY NOTES.

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			
NO.	DATE	DESCRIPTION	BY

COMMERCIAL SITE DESIGN
A Sambatek Company
(919) 846-4201, FAX: (919) 846-5741
WWW.CSITEDESIGN.COM
8012 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27615

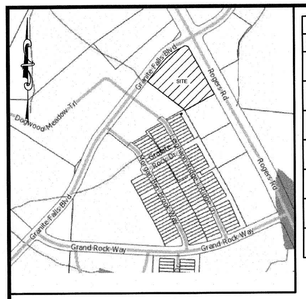
CLIENT:
BULLARD RESTAURANT GROUP
9131 ANSON WAY, # 305
RALEIGH, NC 27615

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

UTILITY PLAN

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

X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-UP.dwg, 2/23/2023 10:40:35 AM, chrisn



VICINITY MAP
NTS

PLANTING SCHEDULE (SEE LANDSCAPING NOTE #12)

SYMBOL	KEY	NO.	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	ROOT	COMMENTS
	RO	10	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	
	WP	3	PINUS STROBUS	EASTERN WHITE PINE	-	6'	B & B	
	FF	7	ABIES FRASERI	FRASER FIR	-	6'	B & B	
	ICH	46	ILEX CRENATA HELLERI	HELLERS JAPANESE HOLLY	-	-	CONT. 3 GAL. MIN.	
	IH	69	RHAPHIOLEPSIS INDICA X DELACOURII 'GEORGIA PETITE'	DWARF INDIAN HAWTHORNE	-	-	CONT. 3 GAL. MIN.	

TURF NOTES:

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP ENTIRE AREA TO 6 INCHES IN DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW*).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. 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.
9. 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 GAL/ACRE

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

10. CONTRACTOR SHALL WATER AND MAINTAIN ALL LAWN AREAS UNTIL AN ACCEPTABLE STAND OF GRASS HAS BEEN ESTABLISHED.
11. 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.
12. 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.
13. AN ACCEPTABLE STAND OF GRASS SHALL BE 92% COVERAGE OR BETTER.

LANDSCAPE NOTES:

1. 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.
2. 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.
3. ALL PLANTING SHALL BE PLACED WITHIN A MULCHED PLANTING BED. ALL STRAPPING AND THE TOP 2/3 OF WIRE BASKETS MUST BE CUT AWAY AND REMOVED FROM ROOT BALLS PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF BURLAP FROM ROOT BALL.
4. ALL LANDSCAPE WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY STANDARD DETAILS AND SPECIFICATIONS.
5. 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 SEEDING SCHEDULE AS SHOWN ON THIS SHEET.
6. SITE LIGHTING SHALL NOT BE PLACED IN CONFLICT WITH PLANTED TREES.
7. TREE PROTECTION FENCING TO BE PROVIDED AROUND TREE PRESERVATION AREAS IN ACCORDANCE WITH CITY STANDARDS.
8. COORDINATE ALL WORK WITH SITE LAYOUT AND SITE GRADING, DRAINAGE & UTILITIES PLAN.
9. VERIFY LOCATION OF UTILITIES BEFORE PLANTING.
10. MULCH ALL AREAS, THAT ARE NOT SEEDED OR SODDED, WITH SHREDDED HARDWOOD MULCH TO A DEPTH OF 3"-4".
11. 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.
12. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES. DRAWINGS SHALL RULE OVER PLANT LISTS.
13. SUBSTITUTIONS SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL, PRIOR TO INSTALLATION. SUBSTITUTIONS MAY REQUIRE ADDITIONAL APPROVAL BY THE GOVERNING JURISDICTION.
14. ALL LANDSCAPING SOIL AND FILL SHALL BE FREE FROM WEEDS, REFUSE, AND DEBRIS AT ALL TIMES.
15. 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.
16. 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:

20' Opaque Type A This buffer functions as an opaque screen from the ground to a height of at least six feet. Plantings of deciduous and evergreen trees are expected to reach a height of no less than 20 feet and to have no unobstructed openings wider than ten feet between tree canopies at maturity. The Type "A" buffer shall include a wall, an opaque fence, landscaped earthen berm, existing or planted vegetation, or any appropriate combination of these elements which will create the desired spatial separation between land uses. At least 50 percent of the required trees and shrubs must be of the evergreen species. Shrubbery is to be planted sufficiently close together to form an opaque screen within three years after planting.

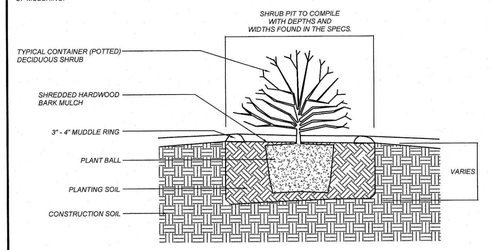
REQUIRED:

10' Spatial Definition Type C This buffer is intended to provide a sense of separation between adjoined properties without specifically obstructing the view from one to the other. Generally, it will be less opaque than the Type B buffer, and more oriented towards aesthetic enhancement. A Type C buffer may include a wall, fence, earthen berm, planted vegetation, existing vegetation, or any appropriate combination of these elements. Tree plantings may be installed in either a random or clustered fashion with unobstructed openings between canopies no greater than 50 feet at maturity.

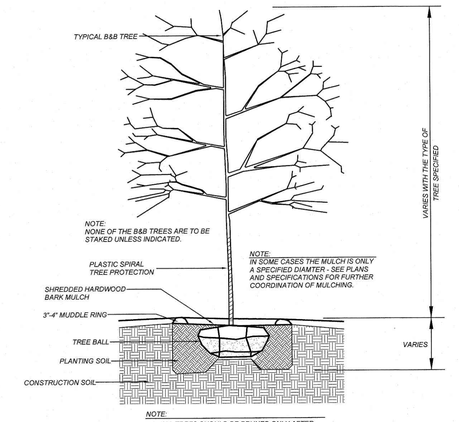
811 Know what's below. Call before you dig. nc811.org or 1-800-632-4949

NOTE:
IN SOME CASES THE MULCH IS ONLY A SPECIFIED DIAMETER SEE PLANS AND SPECIFICATIONS FOR FURTHER COORDINATION OF MULCHING.

NOTE:
PRUNE SHRUB AS RECOMMENDED BY GROWER ONLY AFTER THE PLANT HAS BEEN WATERED INTO THE PLANTING SOIL.



SHRUB PLANTING DETAIL



NOTE:
1. ALL TREES SHOULD BE PRUNED ONLY AFTER INSTALLATION AND WATERING IN THE TREE. PRUNE TO GROWERS SPECIFICATIONS.
2. ALL TREES SHALL COMPLY WITH THE AMERICAN STANDARDS FOR NURSERY STOCK - INCLUDING TREE PIT DEPTH AND WIDTH.

TREE PLANTING DETAIL

REVISIONS			
NO.	DATE	DESCRIPTION	BY

COMMERCIAL SITE DESIGN
A Samblatek Company
(919) 848-4821, FAX: (919) 848-3741
WWW.CSITEDESIGN.COM
8872 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27615

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

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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

GRAPHIC SCALE
20 0 10 20 40
1 inch = 20 ft.

2/23/23

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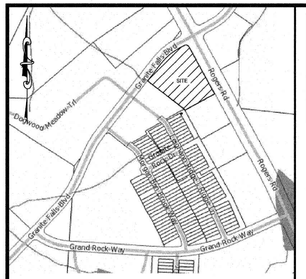


VICINITY MAP
NTS

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 & ASSOICATES FOR PRICING AT (704) 640-6134 OR T.FULTON@SHANNONANDASSOC.COM

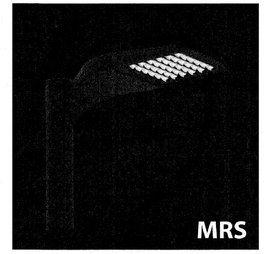
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CALCULATION POINTS @ GRADE	Illuminance	Fc	0.89	5.4	0.0	N.A.	N.A.
PARKING & DRIVING SUMMARY	Illuminance	Fc	2.78	5.4	0.9	3.09	6.00

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 LAMPS/LED'S AND OTHER VARIABLE FIELD CONDITIONS. CALCULATIONS DO NOT INCLUDE OBSTRUCTIONS SUCH AS BUILDINGS, CURBS, LANDSCAPING, OR ANY OTHER ARCHITECTURAL ELEMENTS UNLESS NOTED. FIXTURE 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.

CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	BEARING	CHORD	TANGENT



GRAPHIC SCALE
20 0 10 20 40
1 inch = 20 ft.

REVISIONS			
NO.	DATE	DESCRIPTION	BY

COMMERCIAL SITE DESIGN
A Sambatek Company
(919) 848-4311 FAX: (919) 848-7741
WWW.CSITEDESIGN.COM
8312 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

LIGHTING PLAN

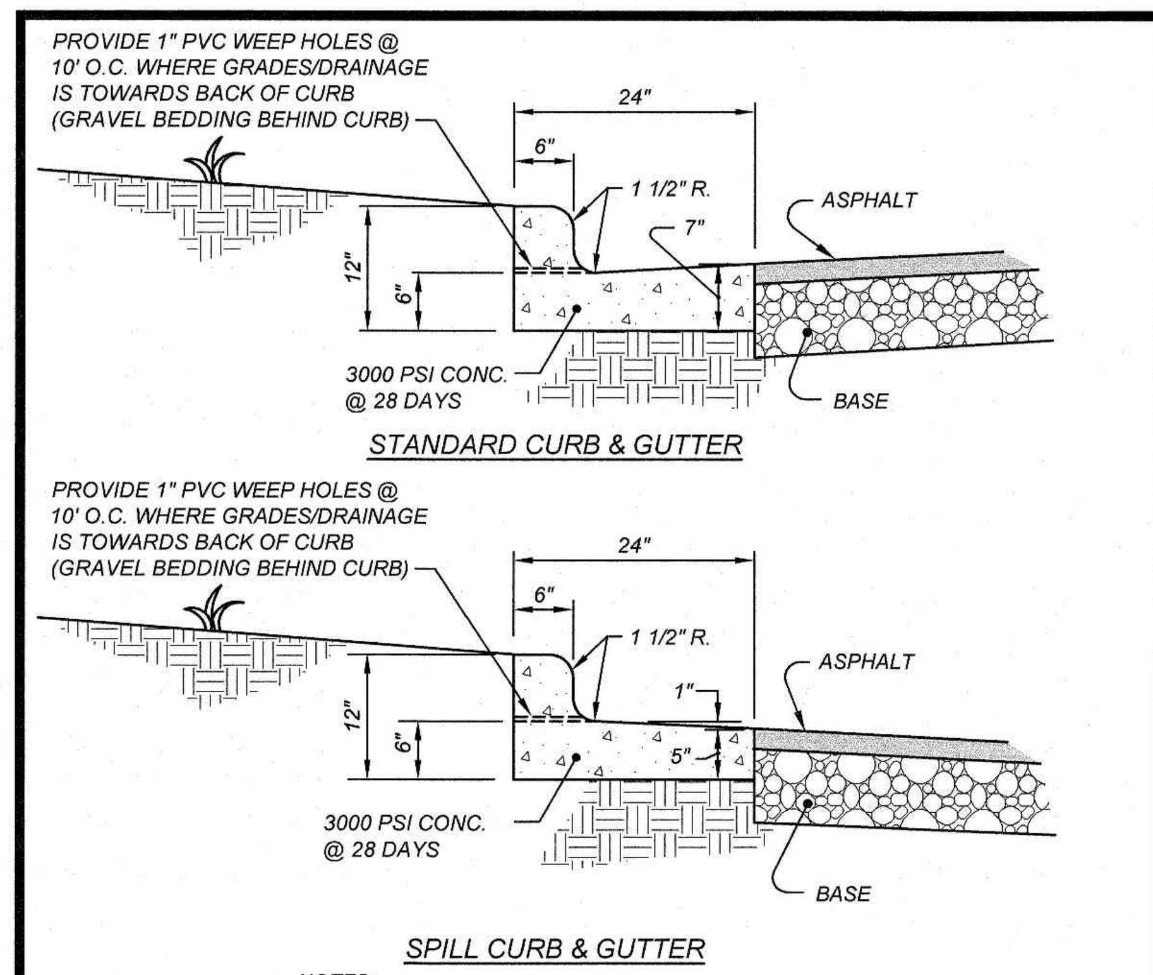
PROJECT NO.	BUL-2103
FILENAME:	BUL2103-LI
DRAWN BY:	RCN
SCALE:	1" = 20'
DATE:	12-06-2022
SHEET NO.	C-9

10000 ALLIANCE RD. CINCINNATI, OHIO 45242 USA
(513) 793-3200 * FAX (513) 793-6023

LIGHTING PROPOSAL LO-157444

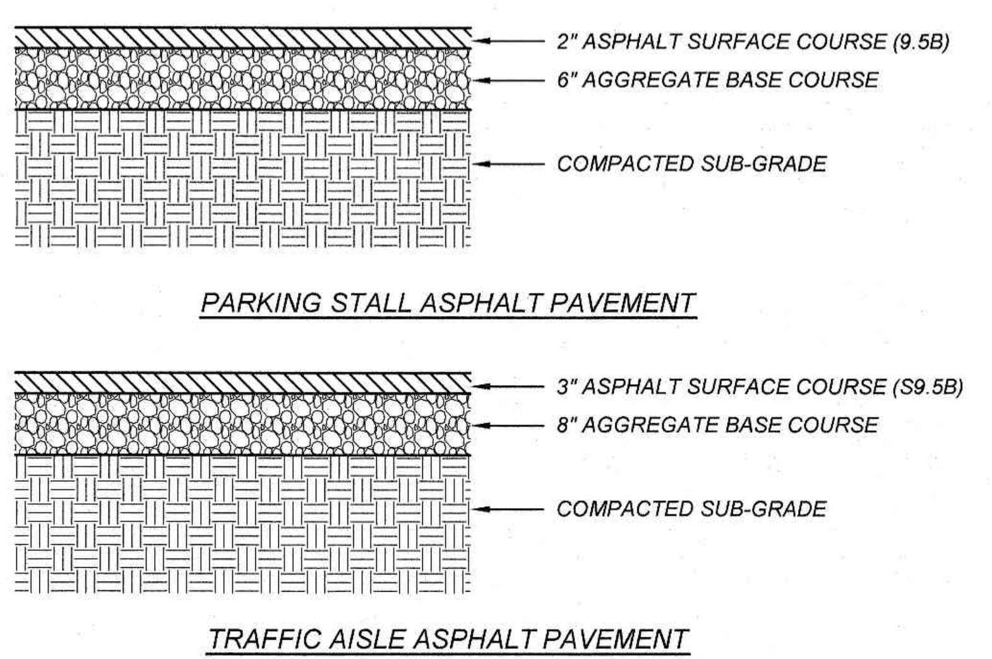
Strip Center
Granite Falls Rd & Rogers Rd
Roelsville, NC

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



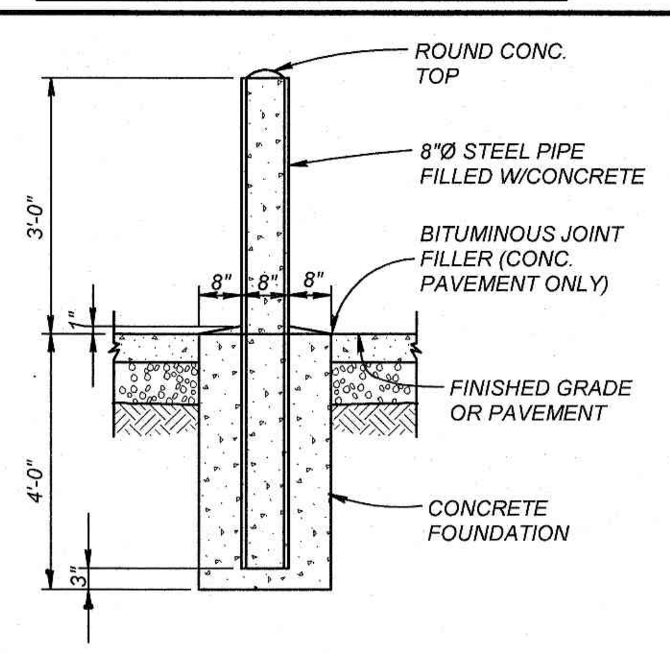
NOTES:
1. SCORE CURB / VALLEY GUTTER AT 15' O.C.
2. PROVIDE 1/2" EXPANSION JOINTS AT 90' O.C.
3. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS. (A 15' SPACING WILL BE ALLOWED WHEN A MACHINE IS USED.)
4. FINISH ALL CONCRETE WITH CURING COMPOUND.

2'-0" STANDARD CURB AND GUTTER

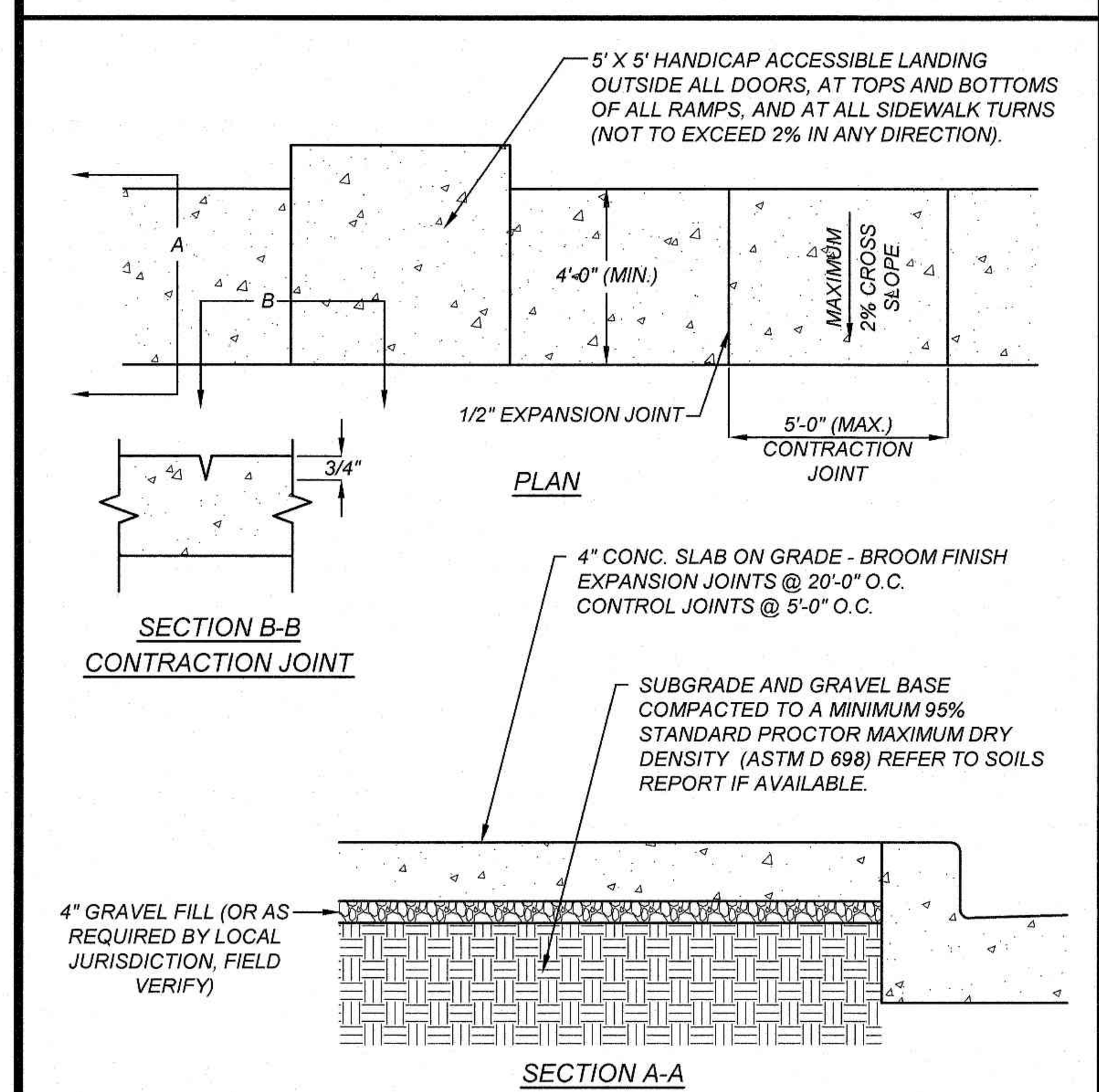


NOTES:
1. CONTRACTOR SHALL OBTAIN SOILS REPORT PREPARED BY ECS SOUTHEAST, LP, PROJECT # 06:24897, DATED AUGUST 17, 2022.
2. CONTRACTOR SHALL PLACE BINDER COURSE DURING CONSTRUCTION, THEN PLACE SURFACE COURSE AFTER BUILDING AND SITE CONSTRUCTION.
3. SUBGRADE COMPACTED TO A MINIMUM 98% STANDARD PROCTOR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

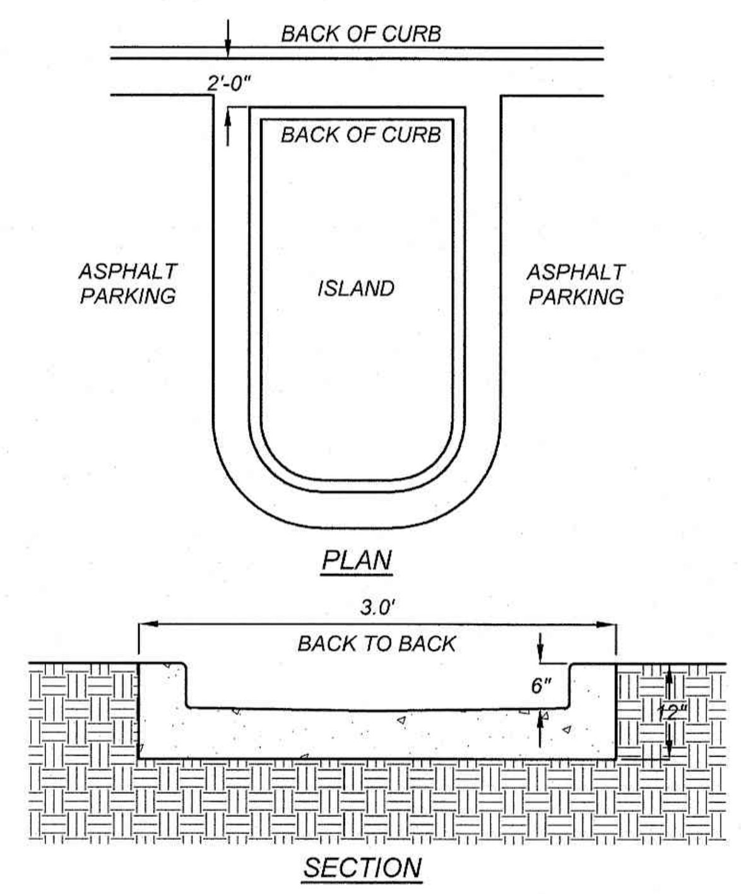
ASPHALT PAVEMENT DETAIL



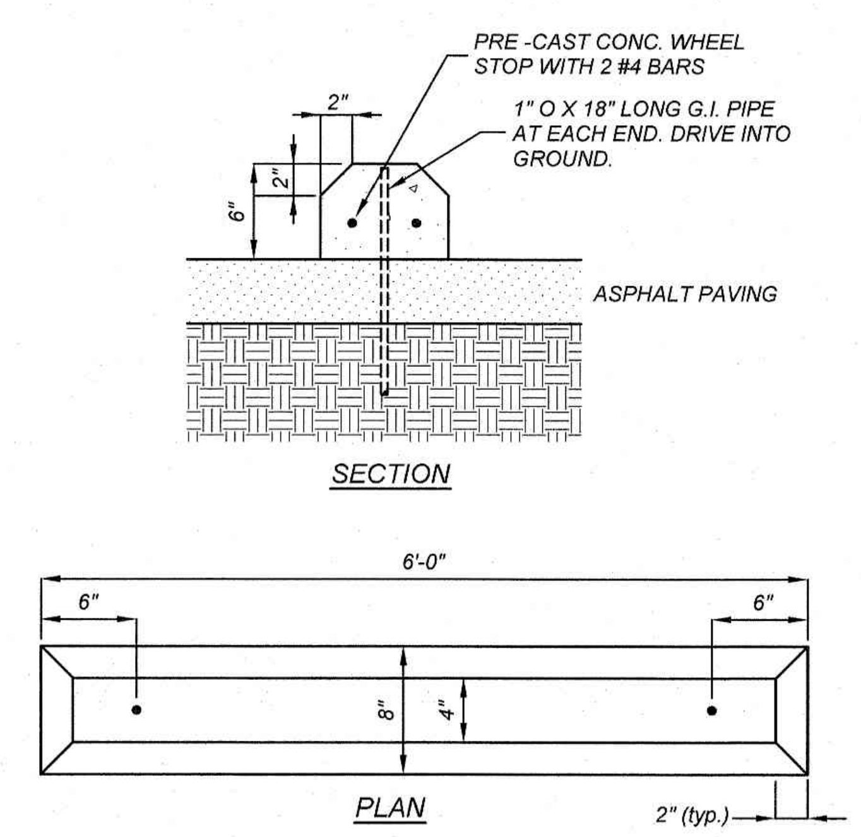
CONCRETE BOLLARD



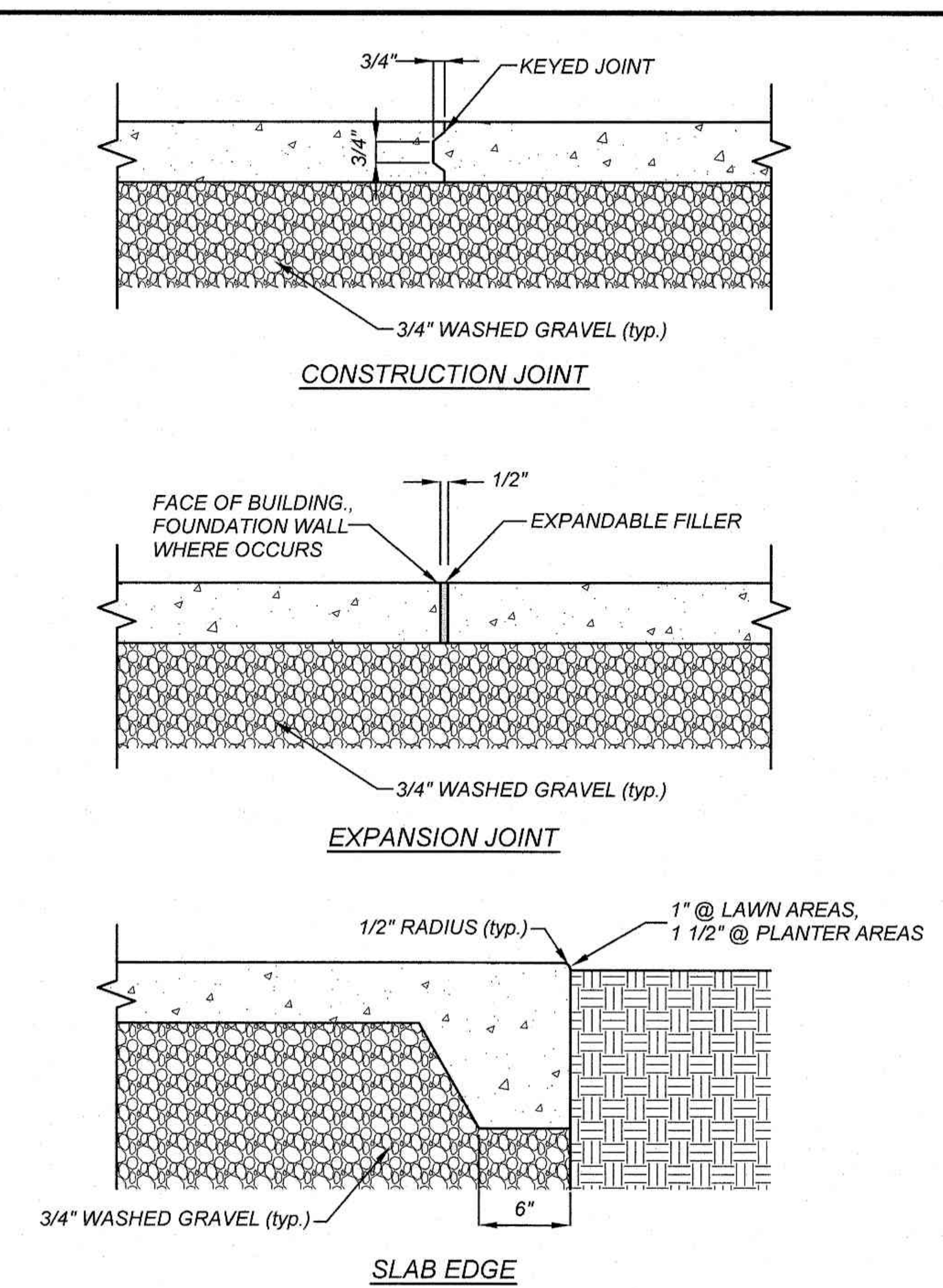
CONCRETE SIDEWALK



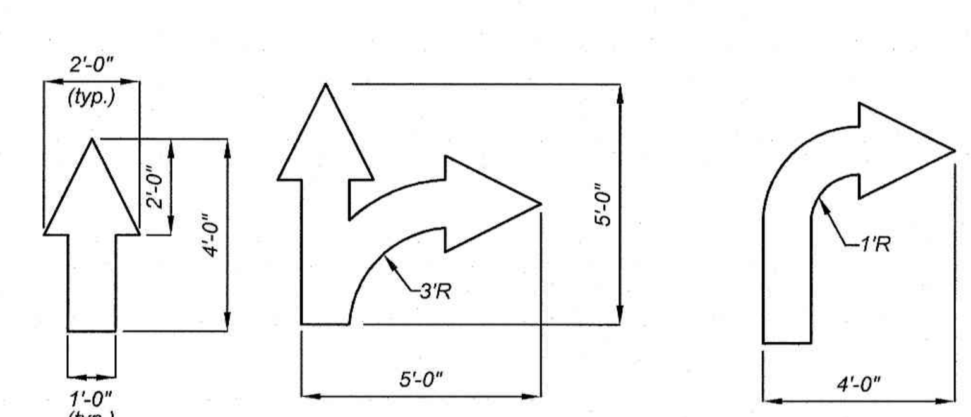
CONCRETE FLUME



CONCRETE WHEEL STOP

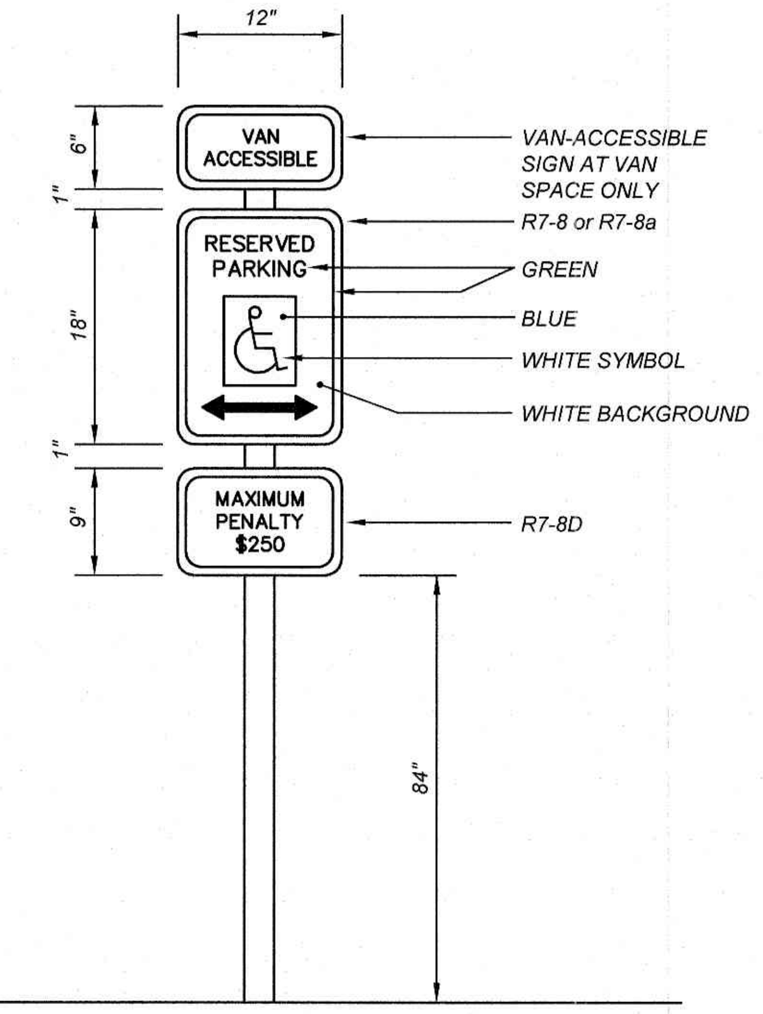


CONCRETE SLAB DETAIL

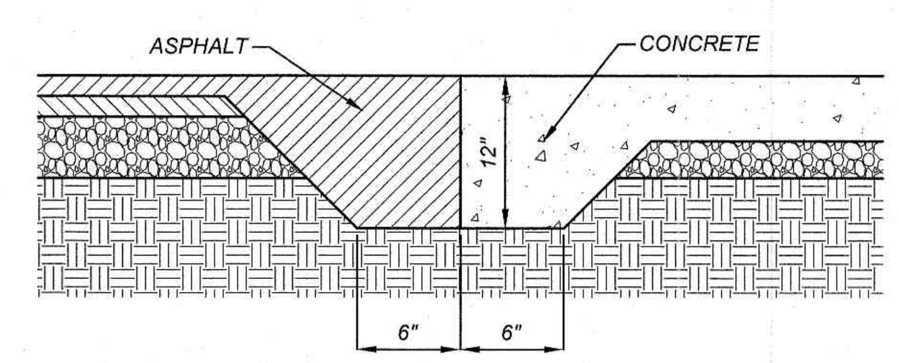


NOTE: ALL TRAFFIC ARROWS TO BE WHITE IN COLOR

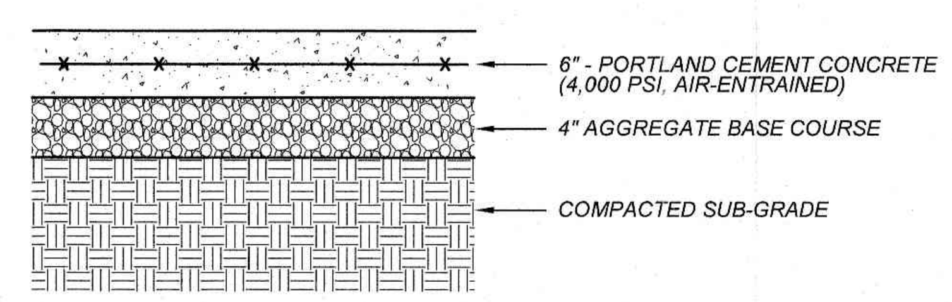
TRAFFIC ARROWS



HANDICAP SIGN DETAIL



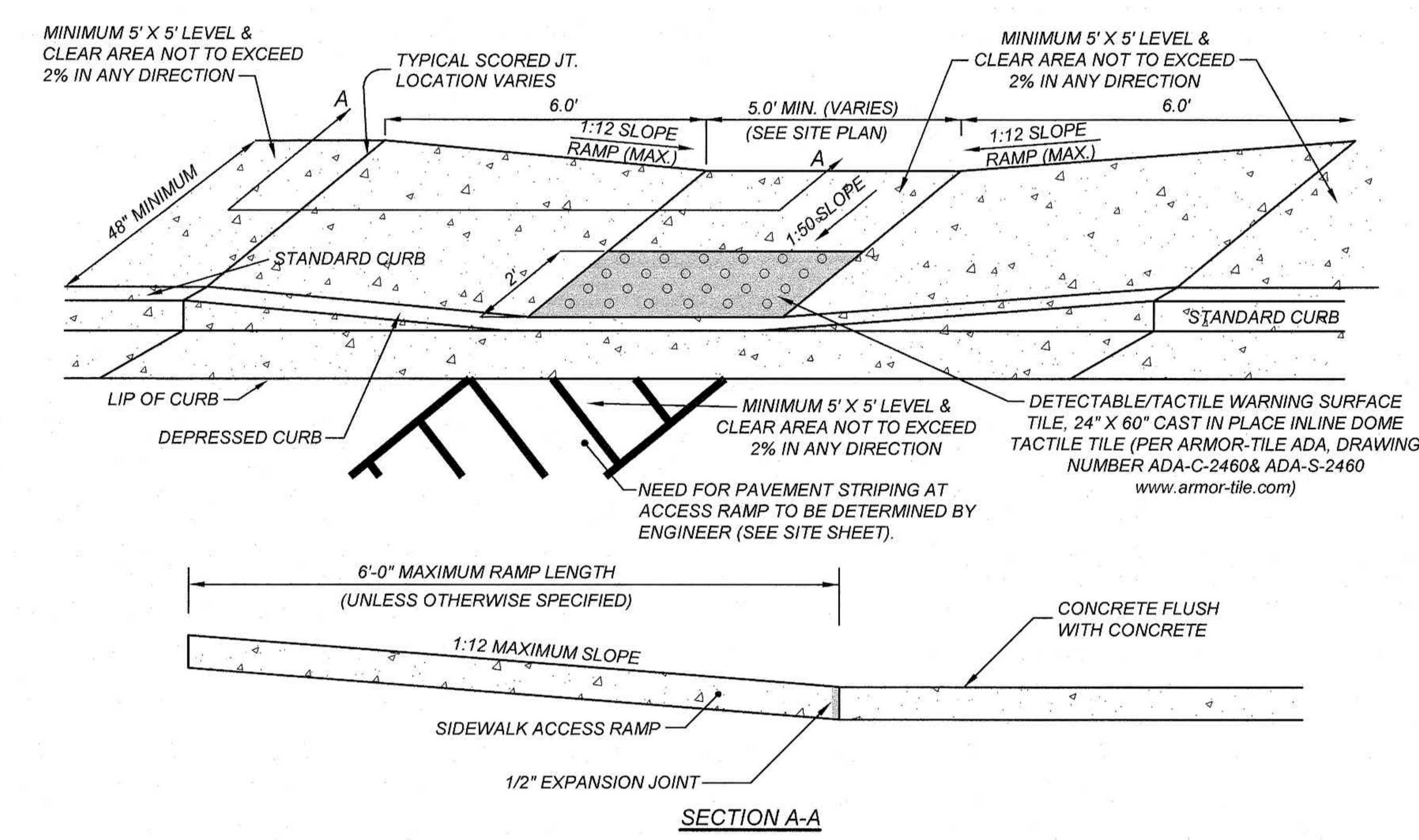
ASPHALT/CONCRETE TRANSITION



SUBGRADE AND GRAVEL BASE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) REFER TO REPORT PREPARED BY ECS SOUTHEAST, LP, PROJECT # 06:24897, DATED AUGUST 17, 2022.

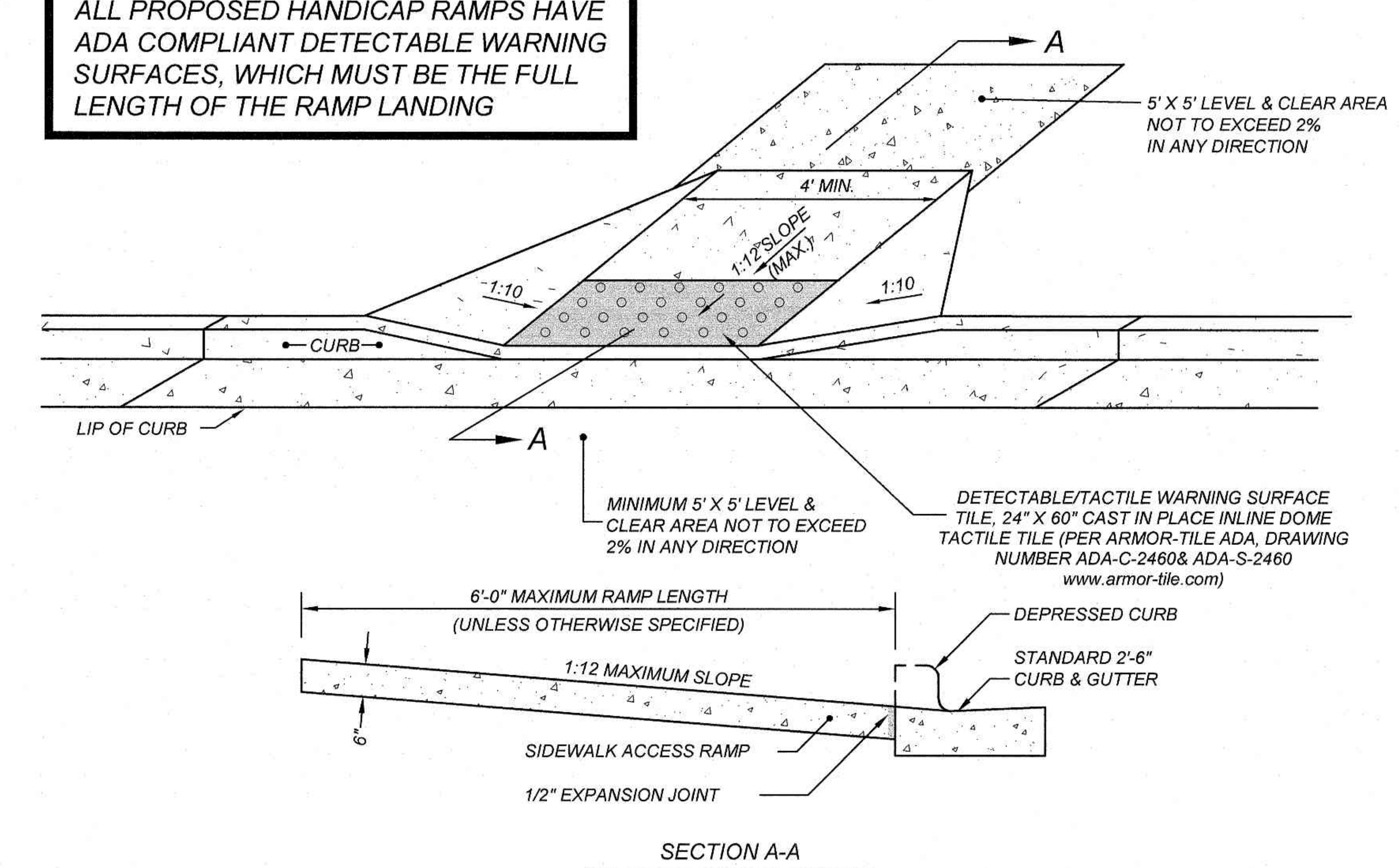
NOTES:
1. CONTRACTOR SHALL OBTAIN SOILS REPORT PREPARED BY ECS SOUTHEAST, LP, PROJECT # 06:24897, DATED AUGUST 17, 2022.

CONCRETE PAVEMENT DETAIL



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



STANDARD HANDICAP RAMP DETAIL

REVISIONS		
NO.	DATE	DESCRIPTION

COMMERCIAL SITE DESIGN
A Sambatek Company
8312 CREEDMOOR ROAD RALEIGH, NORTH CAROLINA 27613
(919) 848-6121, FAX: (919) 848-3741 WWW.CSITEDESIGN.COM

CLIENT:
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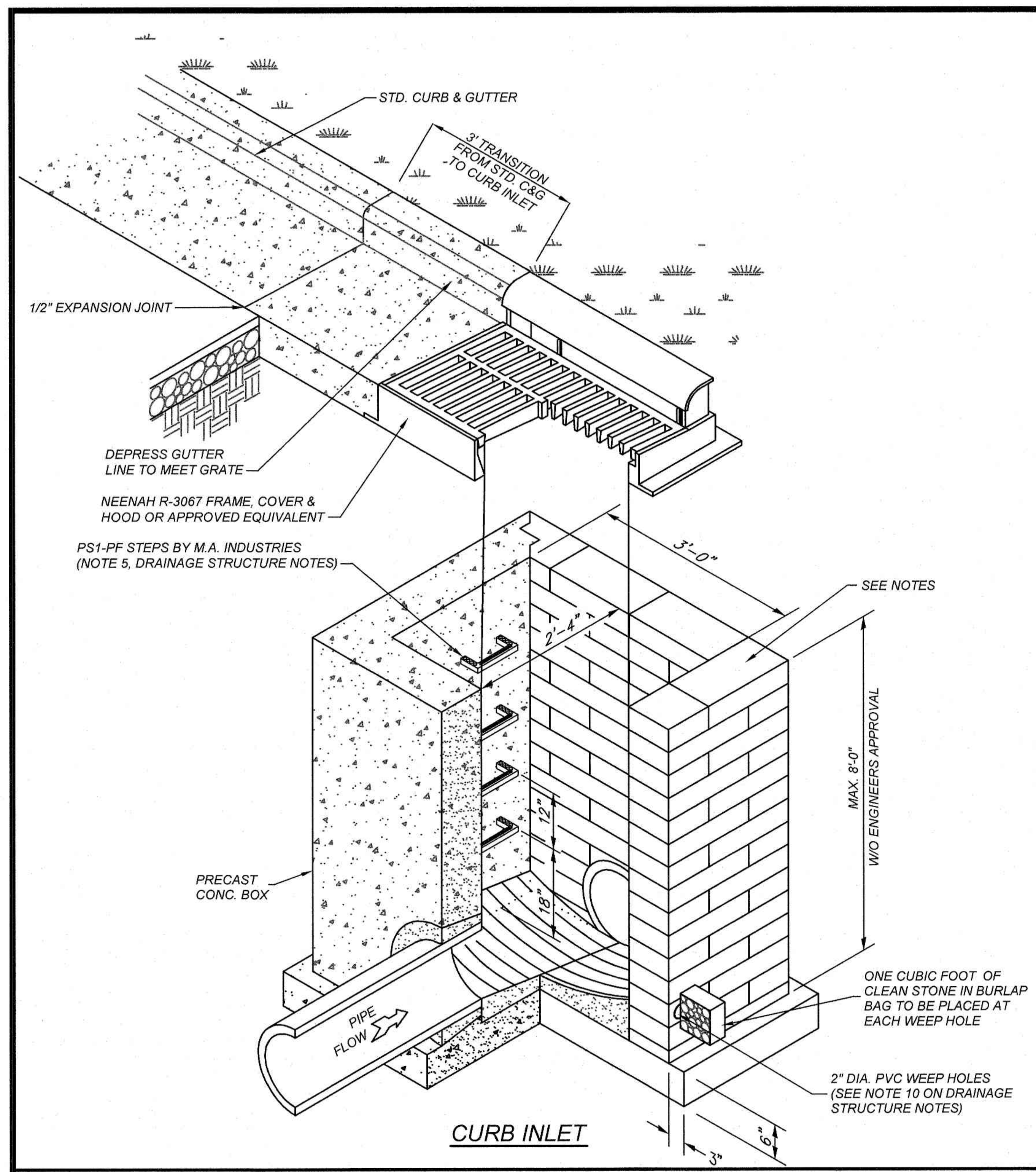
9131 ANSON WAY, # 305
RALEIGH, NC 27615

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

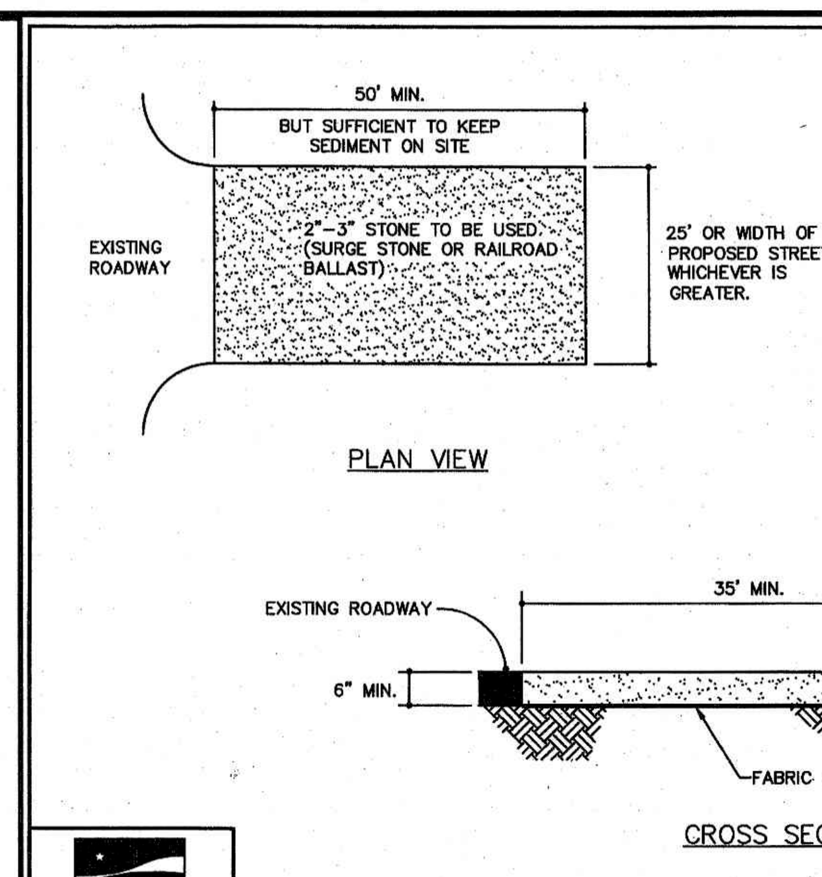
DETAILS

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

X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-DTL1.dwg, 2/23/2023 8:02:49 AM, chrisn



CURB INLET



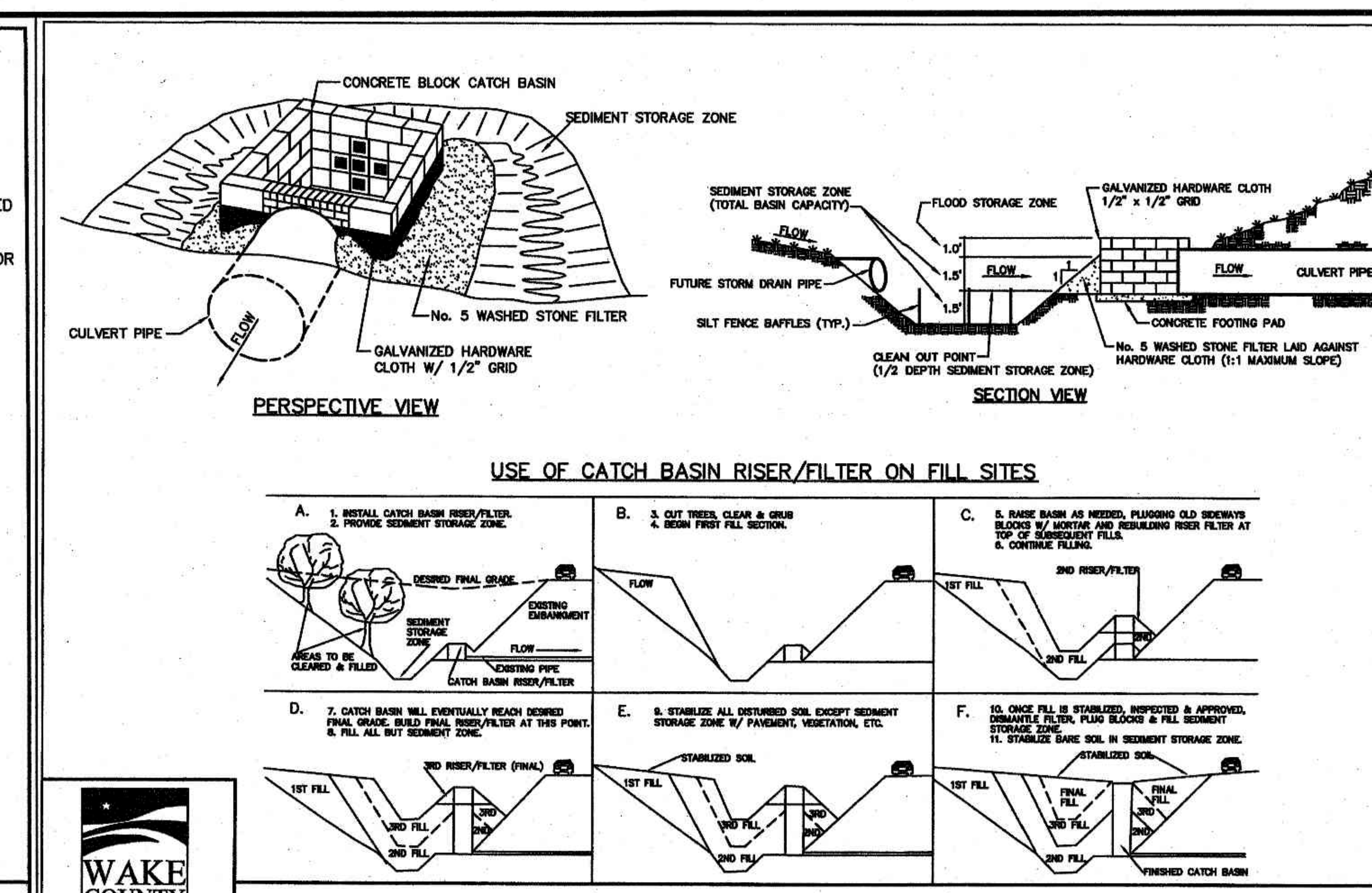
NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

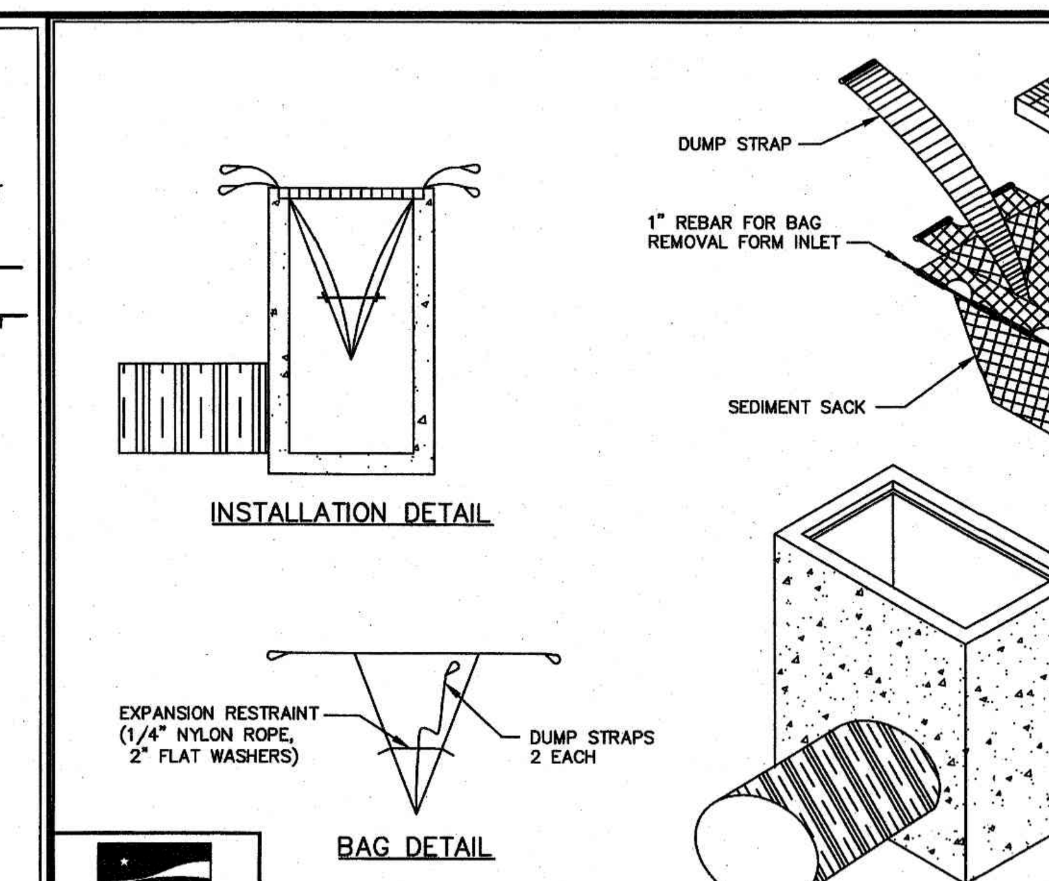
STANDARD CONSTRUCTION ENTRANCE



WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD CATCH BASIN RISER/FILTER



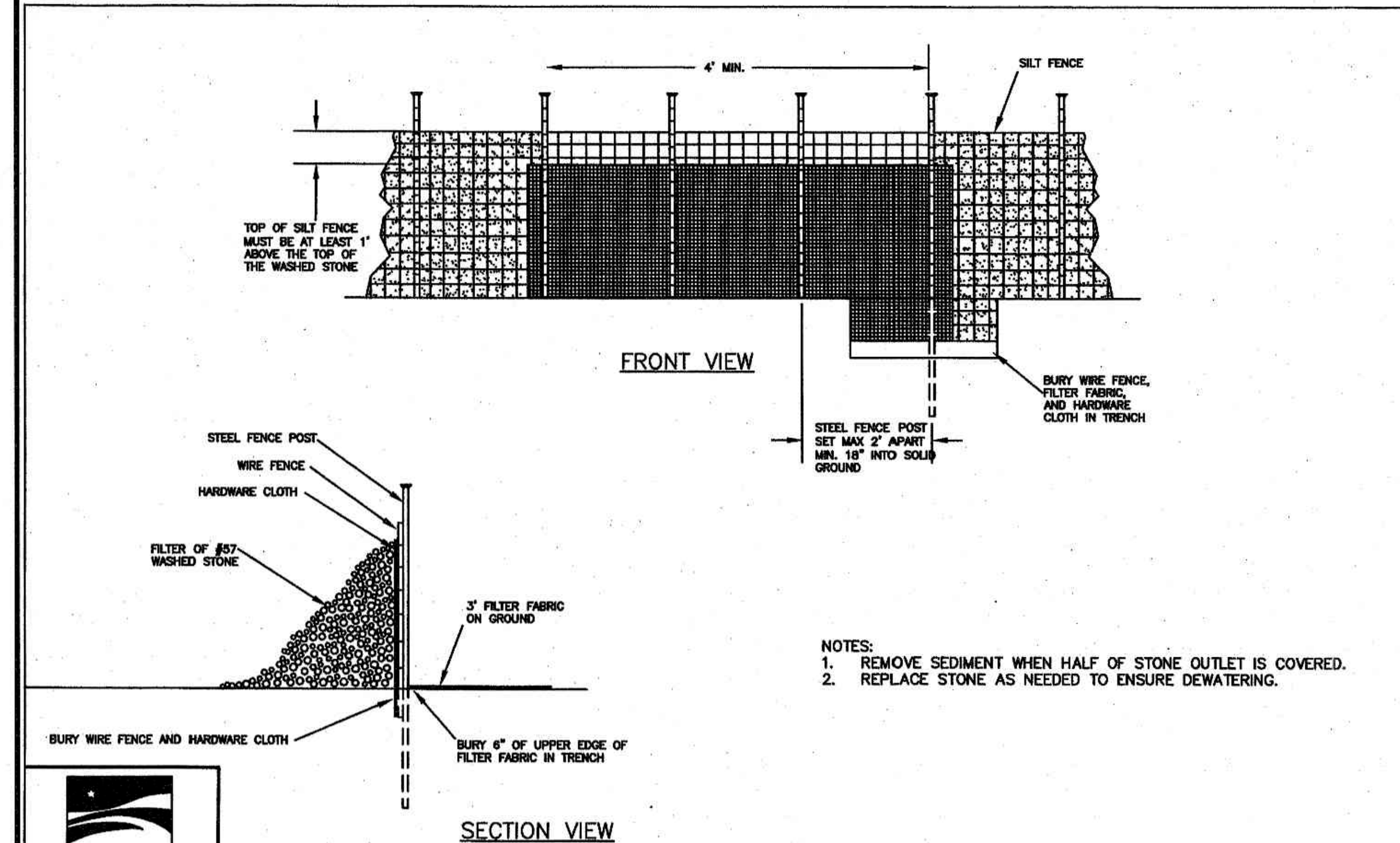
NOTES:

1. SOME MUNICIPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE



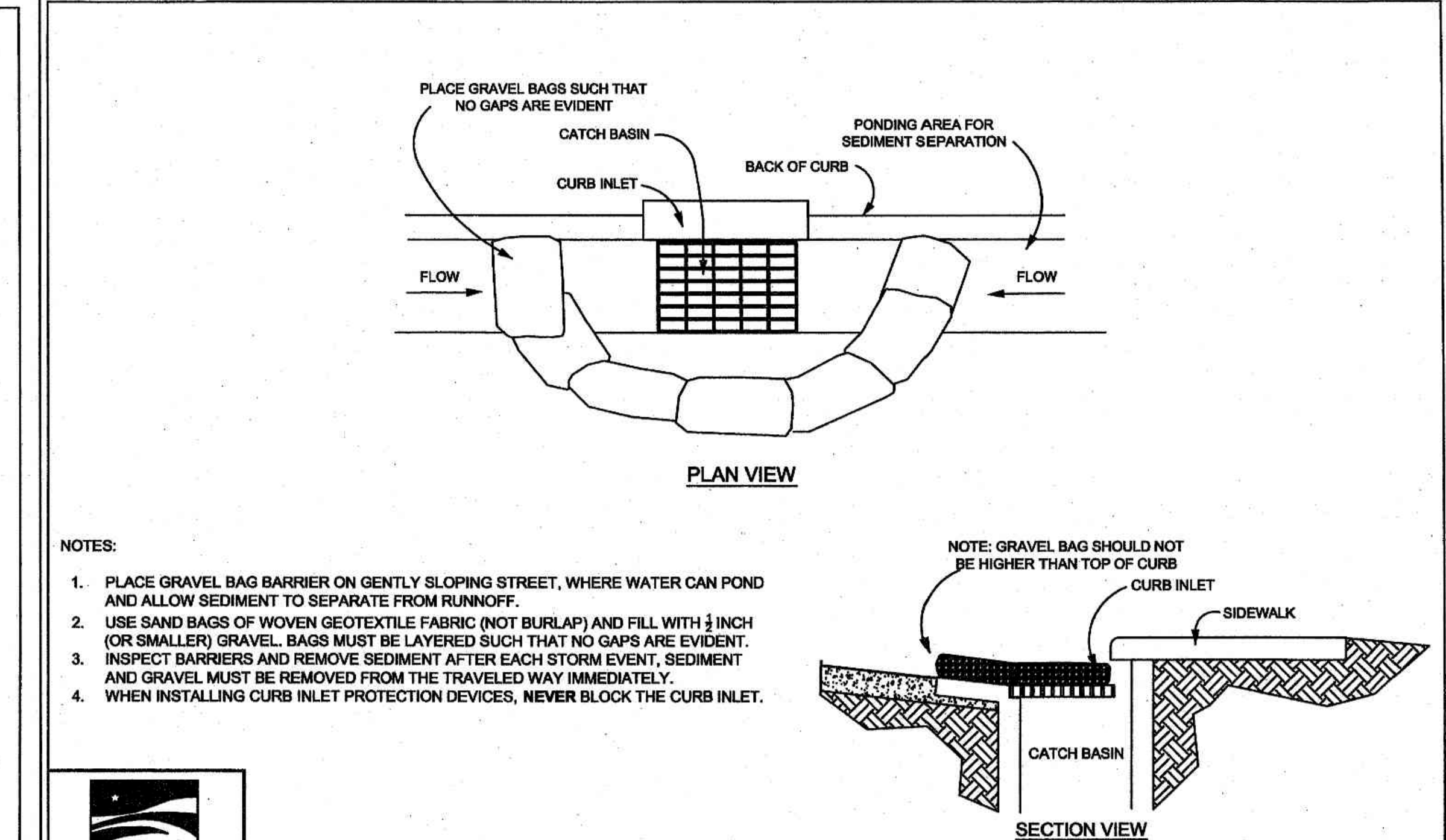
NOTES:

1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD SILT FENCE OUTLET



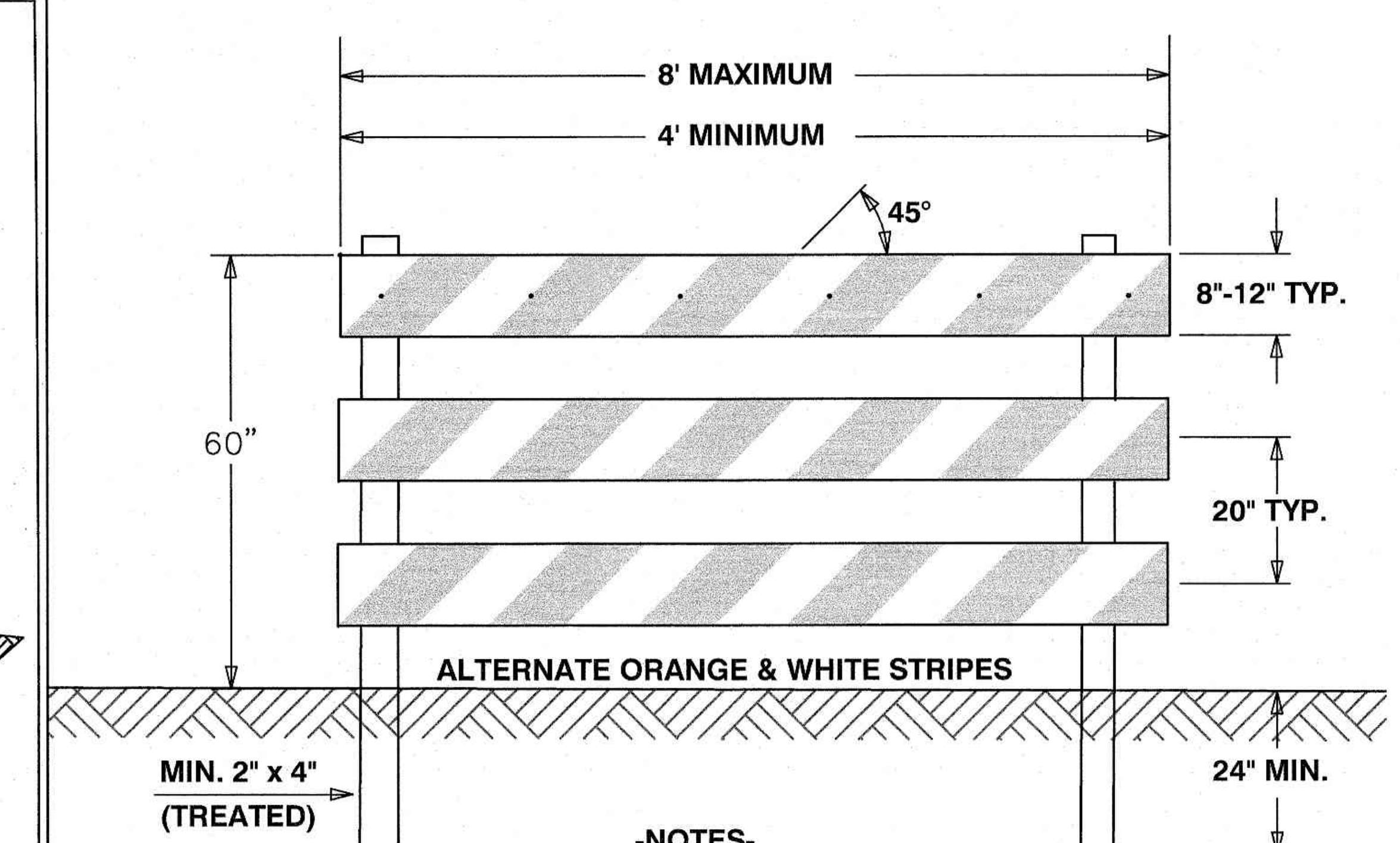
NOTES:

1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH 3/4 INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
4. WHEN INSTALLING CURB INLET PROTECTION DEVICES, NEVER BLOCK THE CURB INLET.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD GRAVEL BAG CURB INLET PROTECTION

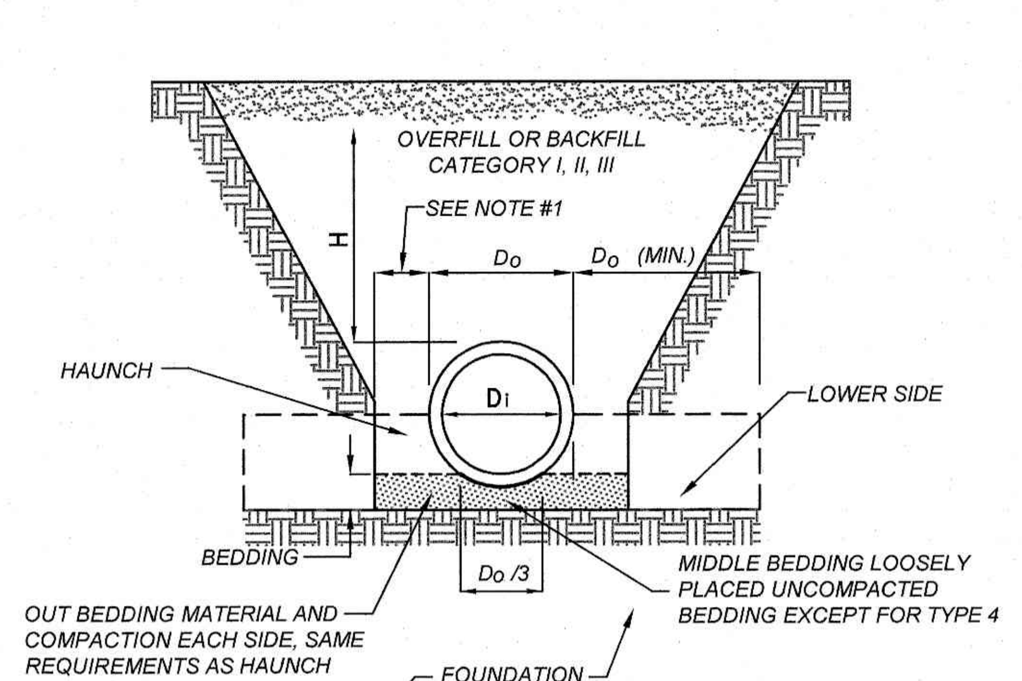


-NOTES-

1. STRIPES ON BARRICADE RAILS SLOPE AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
2. BARRICADE RAIL STRIPE SHALL BE 6 INCHES.
3. THE SIDES OFTHE BARRICADE FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.

STANDARD TEMPORARY BARRICADE

(NOT TO SCALE)

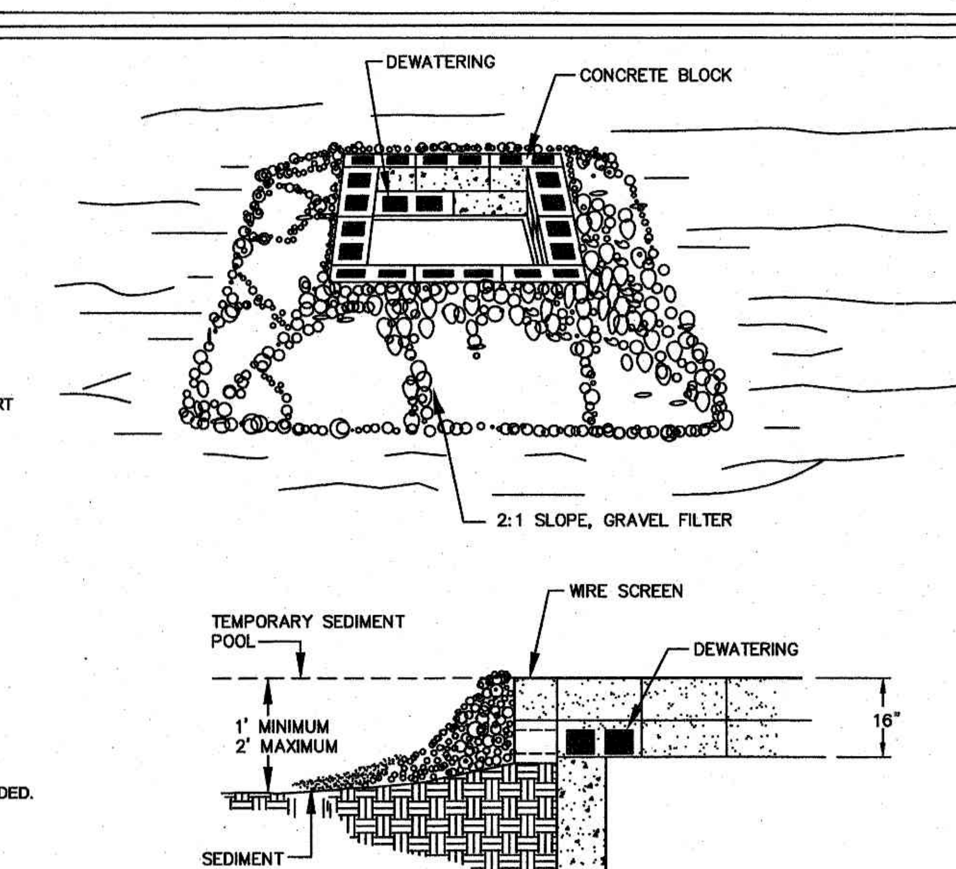


NOTE 1: CLEARANCE BETWEEN PIPE AND TRENCH WALL SHALL BE ADEQUATE TO ENABLE SPECIFIC COMPACTION, BUT NOT LESS THAN D_O /6.

INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE I	D_O/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION, USE D_O/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



CONSTRUCTION SPECIFICATIONS

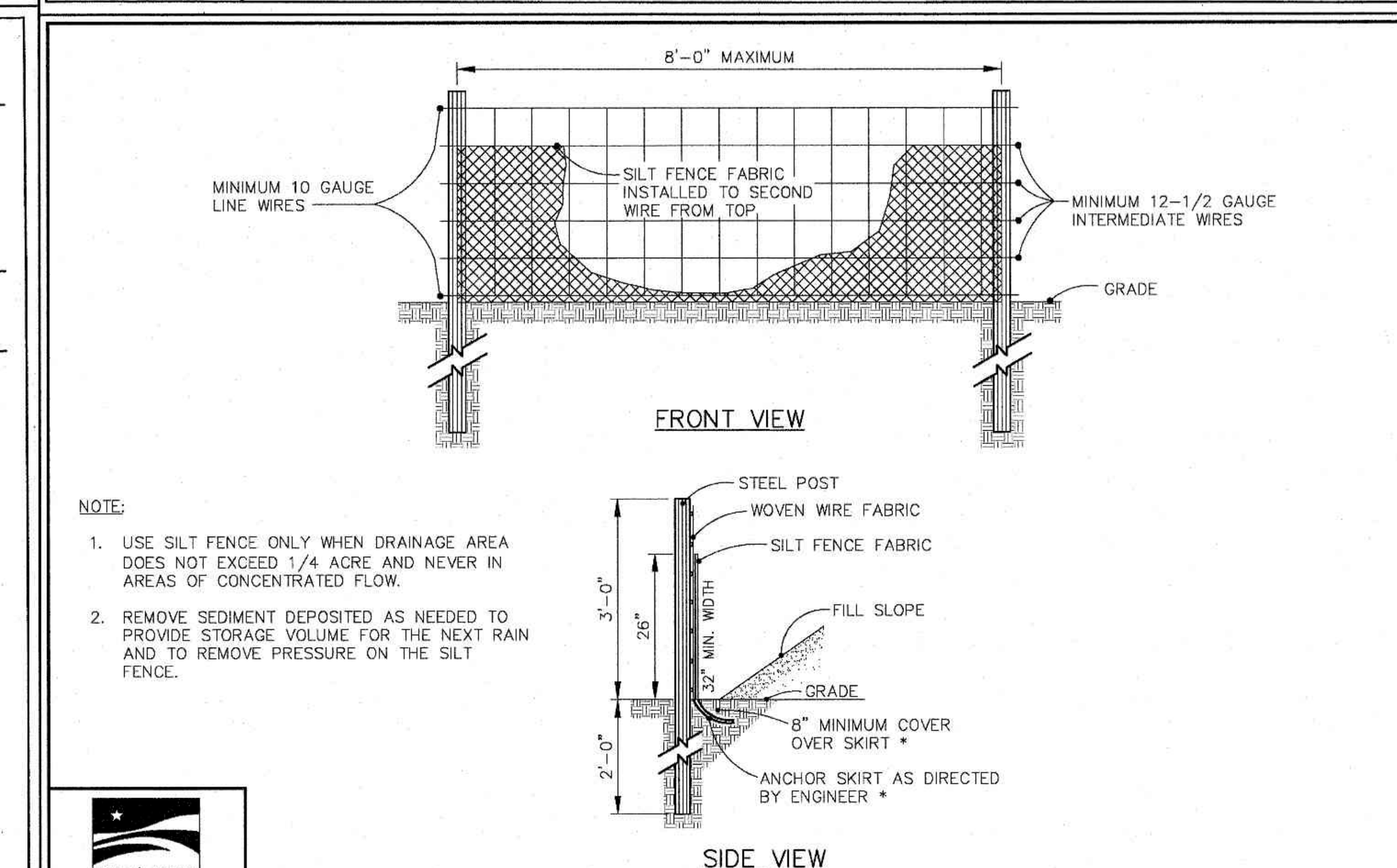
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 3/4 TO 1/2 INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

MAINTENANCE: INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD BLOCK & GRAVEL DROP INLET PROTECTION



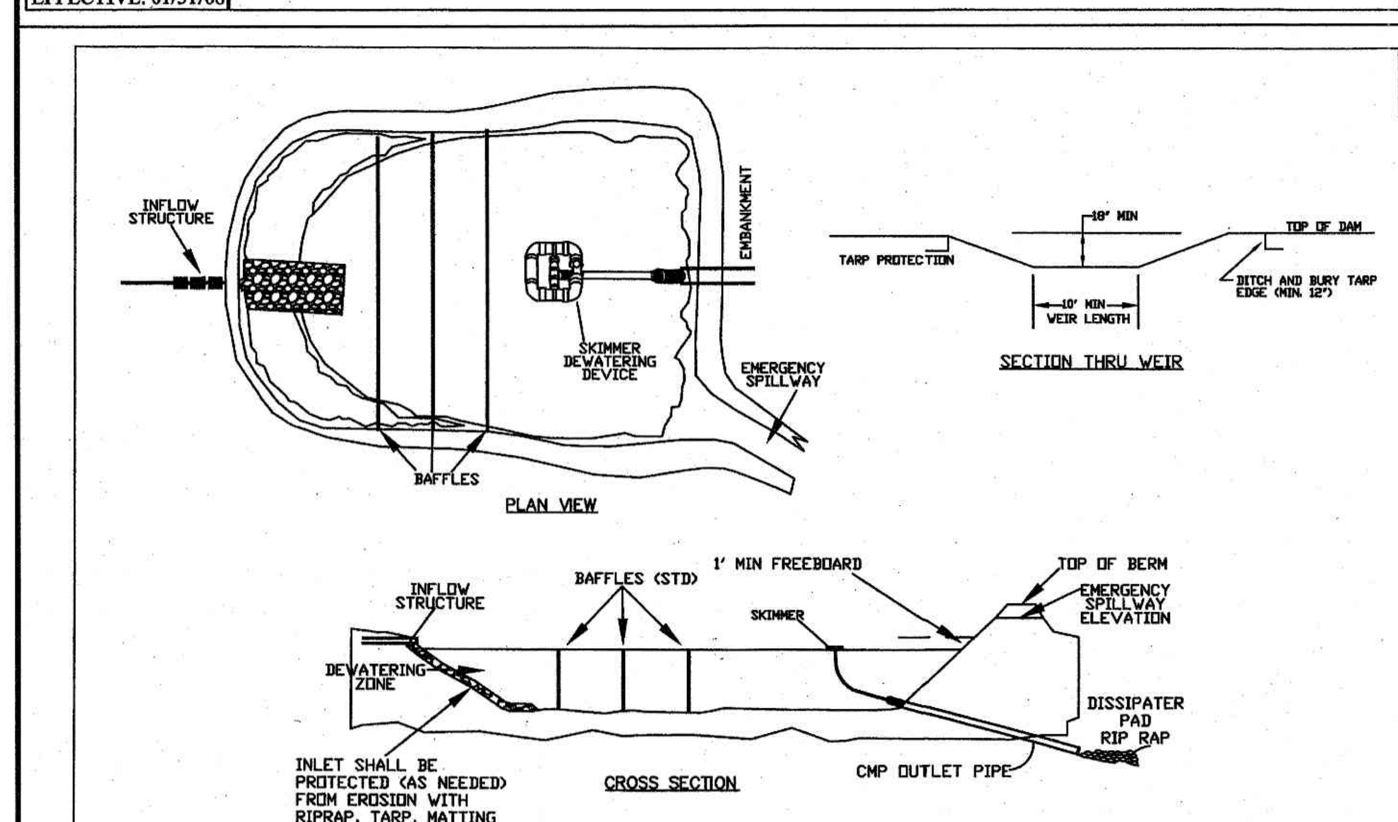
NOTE:

1. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
2. REMOVE SEDIMENT DEPOSITED AS NEEDED TO PROVIDE STORAGE VOLUME FOR THE NEXT RAIN AND TO REMOVE PRESSURE ON THE SILT FENCE.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

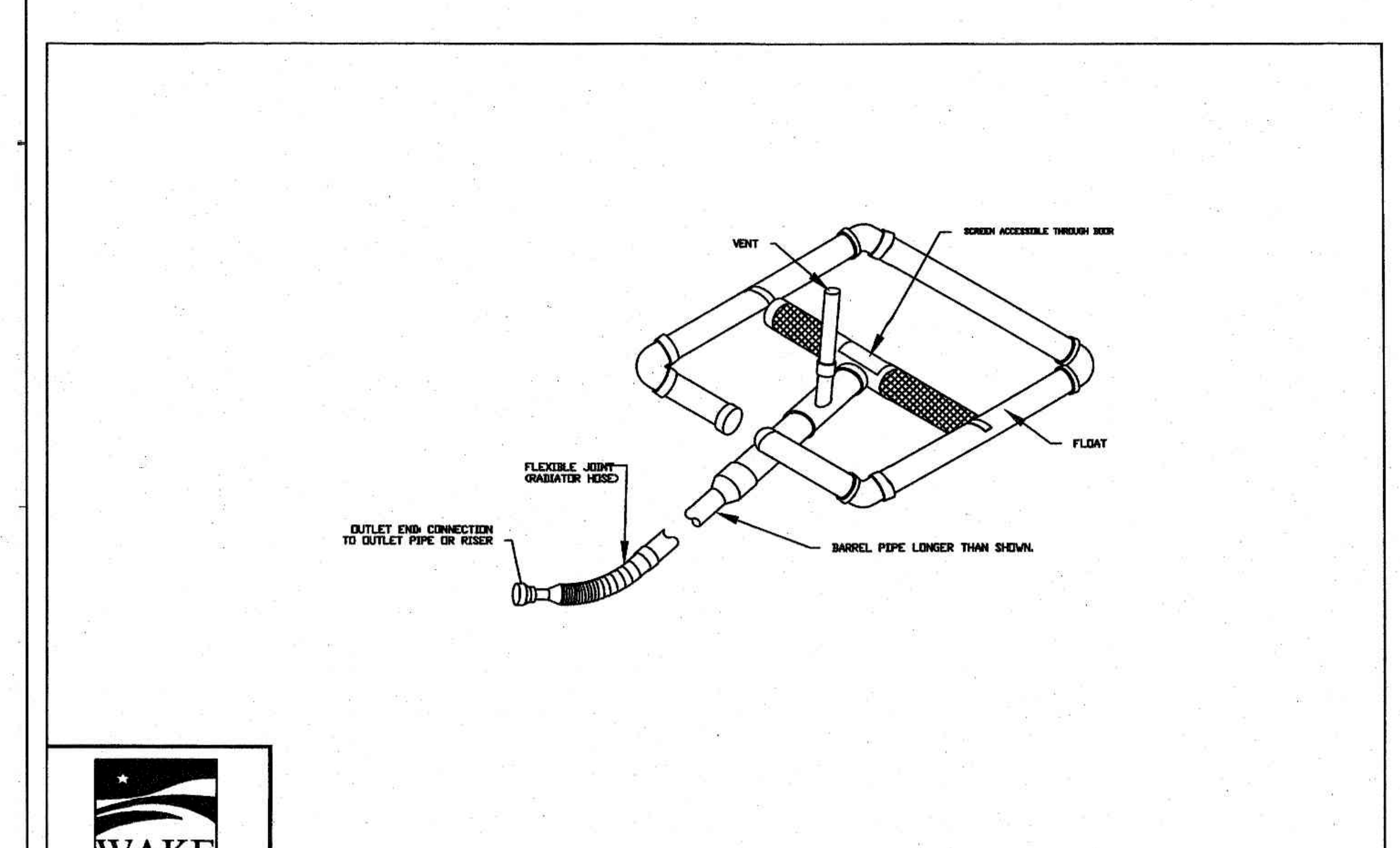
STANDARD TEMPORARY SILT FENCE



WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD SKIMMER BASIN



WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD SKIMMER DETAIL

SAMBATEK NC P.C. REGISTERED CORPORATION C-4993 RALEIGH, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 24501

2/23/23

811 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 BOX IS TO BE DESIGNED BY A PROFESSIONAL ENGINEER.
3. THE MAXIMUM HEIGHT OF AN UN-REINFORCED MASONRY DRAINAGE STRUCTURE WITH 8" WALLS 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 INCH WALLS ARE NOT ALLOWED ON DRAINAGE 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 PS1-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 ACCESSIBLE TO TRUCK LOADINGS TO BE DESIGNED TO MEET AASHTO HS 20-44 LOADING. SEE MANUFACTURERS DETAILS FOR WALL, TOP AND BOTTOM THICKNESS.

REVISIONS

NO.	DATE	DESCRIPTION	BY

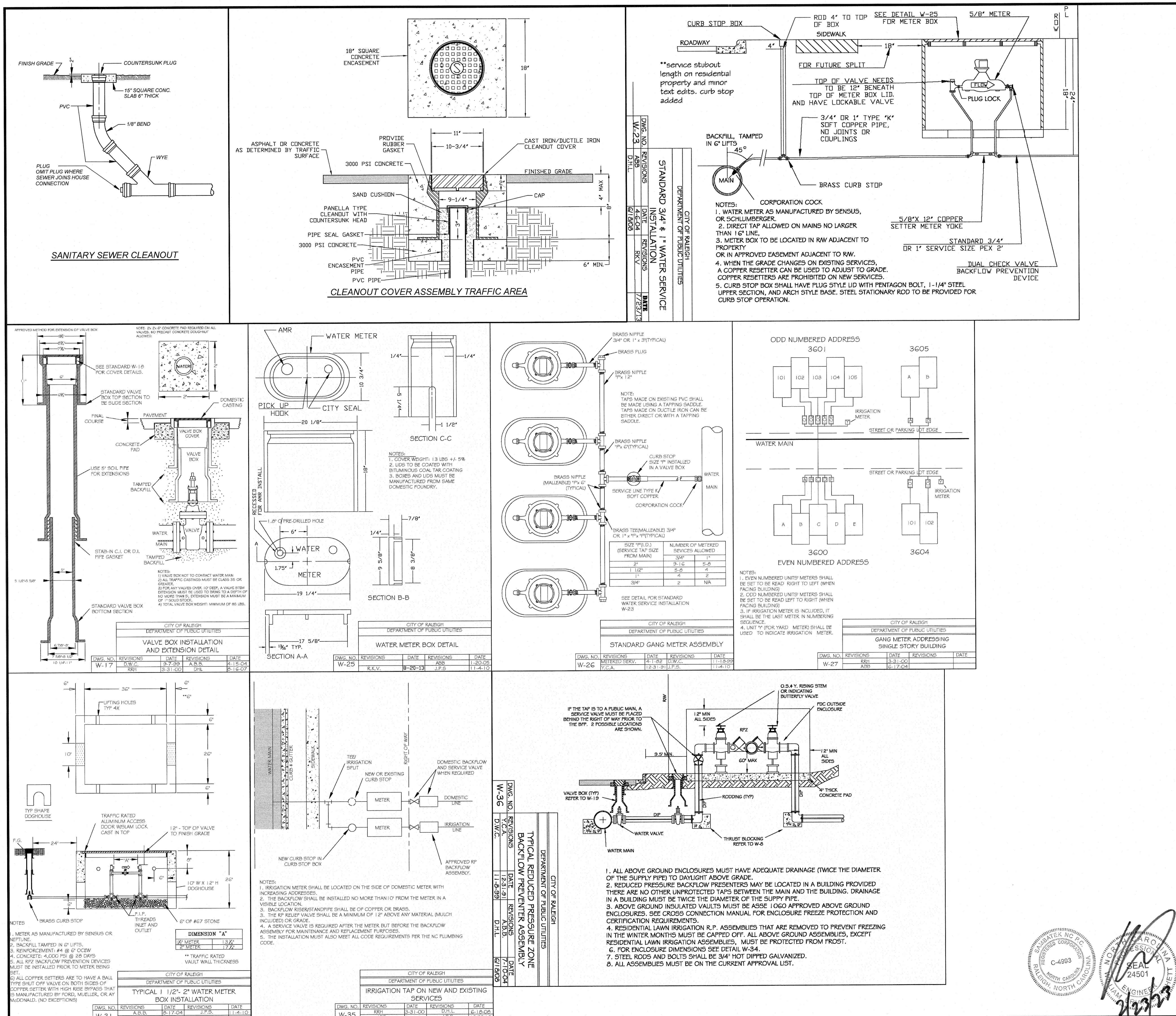
COMMERCIAL SITE DESIGN
A Sambatek Company
8312 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27613
(919) 848-6121, FAX: (919) 848-3741
WWW.CSITEDESIGN.COM

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:	BUL32103-DTL2
DRAWN BY:	RCN
SCALE:	N.T.S.
DATE:	12-06-2022
SHEET NO.	C-11



UTILITY NOTES:

1. UTILITY INFORMATION SHOWN HEREON WAS OBTAINED FROM THE BEST AVAILABLE SOURCE AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF EXISTING UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITIES, EITHER PUBLIC OR PRIVATE, SHOWN HEREON OR NOT SHOWN HEREON. ANY REPAIRS SHALL BE DONE TO THE SATISFACTION OF THE APPROPRIATE UTILITY COMPANY.
2. THE GENERAL CONTRACTOR SHALL CONFIRM ALL NEW UTILITY TAP LOCATIONS WITH THE UTILITY OWNERS. ALL FEES SHALL BE THE RESPONSIBILITY OF DEVELOPER.
3. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE ACTUAL LOCATION AND AVAILABILITY OF ALL EXISTING AND PROPOSED UTILITIES IN THE FIELD PRIOR TO GROUND BREAKING.
4. NEW LOT LIGHT FOUNDATION BASES, CONDUIT AND WIRING ARE BY THE GENERAL CONTRACTOR. POLES, FIXTURES, ANCHOR BOLTS & HARDWARE SHALL BE COORDINATED WITH THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
5. ALL NEW LOT LIGHTS AND THE MAIN IDENTIFICATION SIGN SHALL HAVE A MINIMUM 10 FEET CLEARANCE FROM ALL OVERHEAD UTILITIES.
6. GENERAL CONTRACTOR IS RESPONSIBLE FOR PERMITS AND/OR APPROVALS NECESSARY FOR ANY WORK IN ROADWAY OR RIGHT-OF-WAY.
7. ALL TRENCH EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH TRENCH BACKFILL DETAIL SHOWN ON THESE PLANS.
8. MINIMUM COVER FOR CONDUITS SHALL BE 36" UNLESS OTHERWISE SHOWN OR NOTED ON THESE PLANS.
9. ALL MANHOLES, VALVES, AND MONUMENT FRAMES SHALL BE SET TO FINISH GRADE AFTER PAVING.
10. THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS. TRENCHES SHALL BE SHORED IN ACCORDANCE WITH OSHA.
11. THE MINIMUM SLOPE FOR SANITARY SEWER LINES SHALL BE AS FOLLOWS: 1) 1/4"/FT FOR 4" LINES AND 2) 1/8"/FT FOR 6" LINES. CLEANOUTS SHALL BE PLACED AT 75' INTERVALS.
12. ALL WATER LINES SHALL HAVE A FINAL COVER DEPTH OF 3'-0" IN NON-TRAFFIC AREAS AND 4'-0" MINIMUM IN TRAFFIC AREAS UNLESS SPECIFICALLY NOTED OTHERWISE.
13. ALL SEWER LINES SHALL HAVE A FINAL COVER DEPTH 4'-0" IN NON-TRAFFIC AREAS AND 5'-0" MINIMUM IN TRAFFIC AREAS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
14. SANITARY SEWER SERVICES SHALL BE PVC SDR 35 TO R/W, THEN PVC SCH. 40 TO BUILDING. WATER SERVICE SHALL BE TYPE "K" COPPER.
15. CABLE TV SERVICE ROUTING IS NOT PART OF THIS PLAN, CONTRACTOR TO COORDINATE WITH CABLE COMPANY .
16. EXISTING MANHOLES SHOULD BE FIELD VERIFIED FOR RIMS AND INVERTS.
17. ALL WORK SHALL BE GOVERNED BY THE LATEST EDITIONS OF THE STATE MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, BUILDING CODE, ENERGY CONSERVATION, HANDICAP ACCESSIBILITY, NATIONAL ELECTRICAL CODES AND NATIONAL FIRE PROTECTION ASSOCIATION CODES AND AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION.
18. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
19. CONTRACTOR SHALL GUARANTEE, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF SYSTEMS BY OWNER, EACH AND EVERY PIECE OF APPARATUS WHICH HAS BEEN INSTALLED UNDER THIS CONTRACT.
20. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS/METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
21. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING 5 FEET IN DEPTH.
22. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
23. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED PRIOR APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO THE SUBSTITUTION OF ALTERNATE EQUIPMENT.
24. 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.
25. ONLY SEWAGE NOT CONTAINING GREASE IS ALLOWED TO BYPASS THE GREASE TRAP.
26. ALL SANITARY SEWER SERVICES AND STORM DRAIN PIPING 8" IN DIAMETER OR SMALLER SHALL BE SCH. 40 PVC WITH ADHESIVE "WELDED JOINTS, UNLESS SPECIFIED OTHERWISE OR REQUIRED BY LOCAL GOVERNING MUNICIPALITY. MINIMUM SLOPES ON SANITARY SEWER SERVICES: 4" - 1/4"/FT, 6" - 1/8"/FT.
27. BELOW GRADE WATER SERVICE PIPING SHALL BE TYPE "K" HARD DRAWN COPPER TUBING WITH SILVER SOLDER JOINTS. SOLDERS CONTAINING LEAD SHALL NOT BE USED FOR ANY PURPOSE ON THIS PROJECT, WHERE PIPING IS REQUIRED TO RUN BELOW BUILDING SLAB, IT SHALL BE INSTALLED WITHOUT JOINTS BELOW SLAB.
28. WATER PIPING SHALL BE CONNECTED TO BUILDING STUBS, VERIFY LOCATIONS PRIOR TO BEGINNING WATER PIPE INSTALLATION.
29. WASTE PIPING SHALL BE CONNECTED TO BUILDING STUBS, VERIFY LOCATIONS AND INVERTS PRIOR TO BEGINNING ANY WASTE PIPE INSTALLATION.
30. CONTRACTOR SHALL NOTIFY "NC ONE CALL" AT 1-800-632-4949 AT LEAST HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENTLY.
31. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ROLESVILLE PUBLIC UTILITIES AND CROSS CONNECTION CONTROL REGULATIONS AND STANDARDS.
32. SITE UTILITY CONTRACTOR TO PROVIDE WATER, SANITARY SEWER, AND ROOF DRAIN LEADERS TO WITHIN 5 FEET OF THE BUILDING. CONTRACTOR SHALL COORDINATE SITE PLAN CONNECTIONS WITH THE ARCHITECTURAL BUILDING PLANS.
33. SANITARY CLEANOUTS SHALL BE PLACED NO MORE THAN 75 FEET APART. CLEAN OUTS LOCATED IN PAVEMENT AREAS SHALL HAVE HEAVY DUTY TRAFFIC RATED CONSTRUCTION.
34. CONNECTION OF SANITARY SEWER SERVICE TO AN EXISTING MANHOLE SHALL COMPLY WITH THE TOWN OF ROLESVILLE STANDARDS, INCLUDING: CORE DRILL FOR OPENING INTO MANHOLE AND INSTALL WITH FLEXIBLE BOOT. IF PAVEMENT CUT IS REQUIRED, CONTRACTOR SHALL PATCH PAVEMENT WITH A SECTION TO MATCH EXISTING PAVEMENT: 3" I-2, 8" ABC OR BETTER.
35. RELATION OF WATER MAINS TO SEWERS:
    - A. LATERAL SEPARATION OF SEWER AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT LATERAL SEPARATION, IN WHICH CASE:
        1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, OR
        2. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER LINE WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND ABOVE THE TOP OF THE SEWER.
    - B. CROSSING A WATER MAIN OVER A SEWER MAIN: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION - IN WHICH CASE BOTH THE WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
    - C. CROSSING A WATER MAIN UNDER A SEWER MAIN: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN BOTH THE WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
    - D. CROSSING A SEWER LINE OVER OR UNDER A STORM DRAIN: WHENEVER IT IS NECESSARY FOR A SEWER LINE TO CROSS A STORM DRAIN PIPE, THE SEWER LINES SHALL BE LAID AT SUCH AN ELEVATION THAT THE OUTSIDE OF THE SEWER LINE NEAREST TO THE OUTSIDE OF THE STORM DRAIN PIPE SHALL MAINTAIN A 12 INCH CLEAR SEPARATION DISTANCES, OR ENCASED IN EITHER CONCRETE OR DUCTILE IRON PIPE FOR AT LEAST 5 FEET ON EITHER SIDE OF THE CROSSING.
36. UNDERGROUND CONDUITS TO SIGNS, LOT LIGHTS, ETC., SHALL BE PLACED IN GRASS OR LANDSCAPE AREAS WHENEVER POSSIBLE. THE LOCATION OF THE CONDUIT AS SHOWN ON THESE PLANS SHALL BE CONSIDERED TO BE SCHEMATIC WITH ACTUAL LOCATION TO BE VERIFIED BY THE GENERAL CONTRACTOR, PVC SCH. 40 SLEEVES SHALL BE INSTALLED FOR ALL CONDUIT CROSSING UNDER PAVED AREAS.
37. SEE ELECTRICAL SHEETS FOR SIZE OF CONDUIT AND WIRE ON ALL ELECTRICAL SERVICE.
38. TRANSFORMER BY ELECTRIC COMPANY, GENERAL CONTRACTOR TO PROVIDE PAD. REFER TO ELECTRIC COMPANY SPECIFICATIONS FOR PAD CONSTRUCTION.

SAMBATEK NC P.C. REGISTERED CORPORATION C-4993 RALEIGH, NORTH CAROLINA
NORTH CAROLINA PROFESSIONAL SEAL 24501 ENGINEER
2/23/23

REVISIONS

NO.	DATE	DESCRIPTION	BY

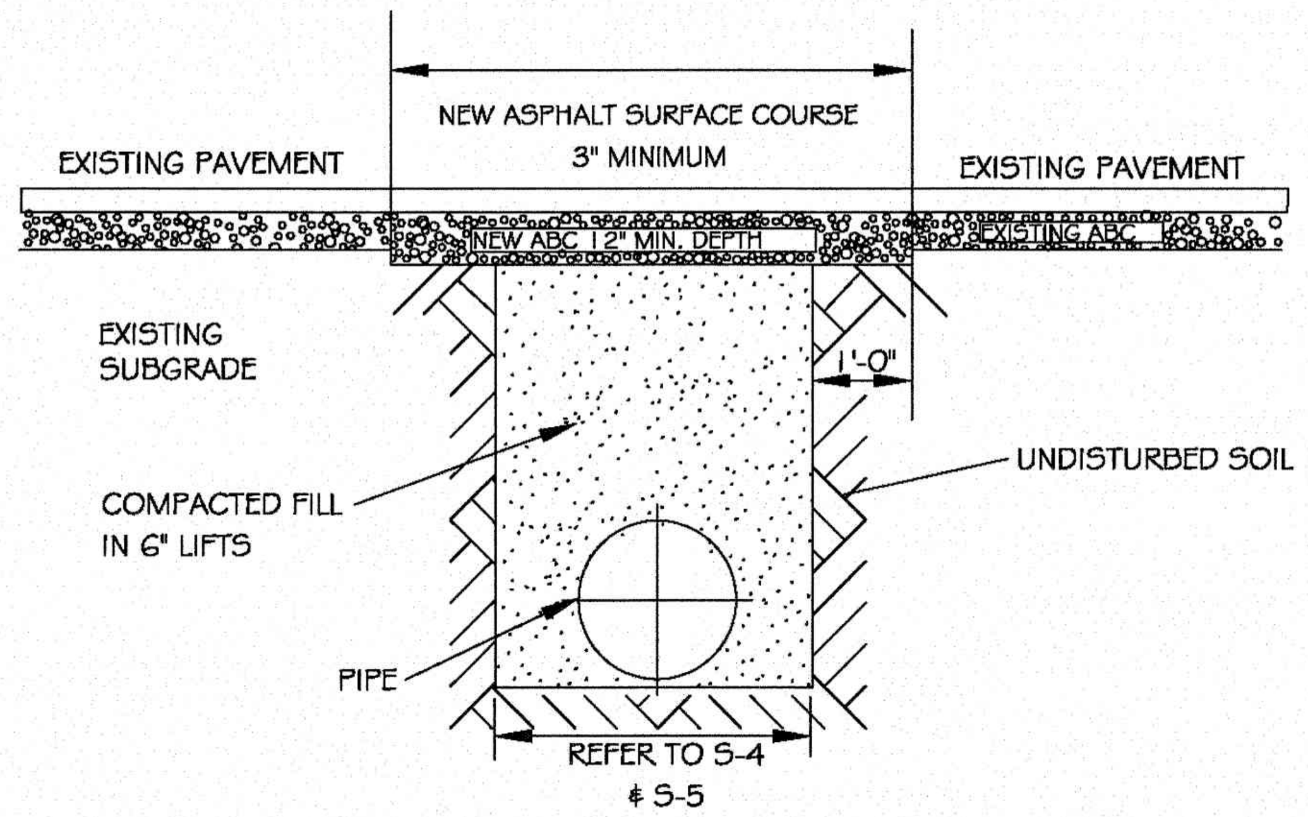
COMMERCIAL SITE DESIGN
A Sambatek Company
8312 CREEDMOOR ROAD
RALEIGH, NORTH CAROLINA 27613
(919) 848-6121, FAX: (919) 848-3741
WWW.CSITEDESIGN.COM

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

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

DETAILS

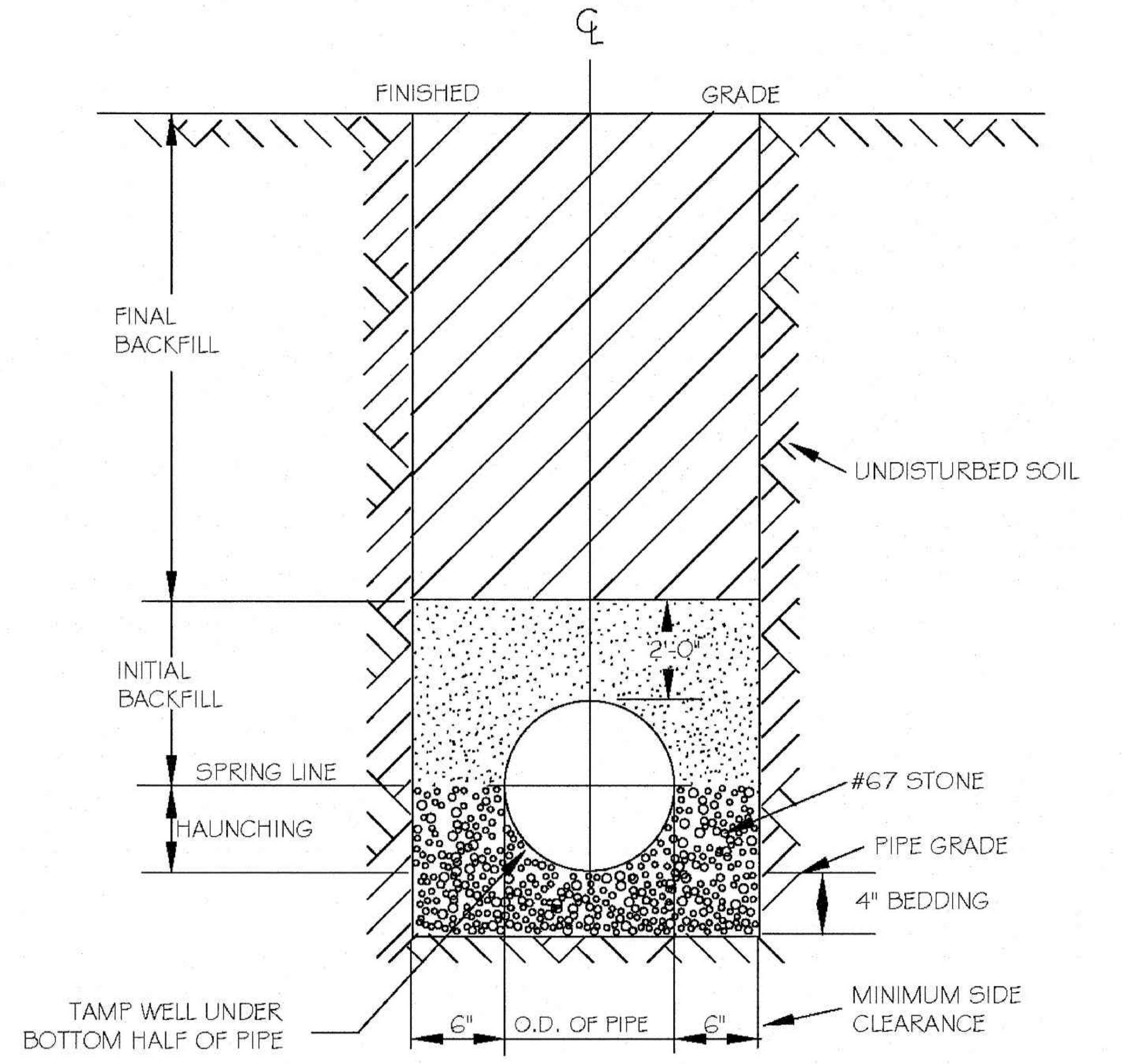
PROJECT NO.	BUL-2103
FILENAME:	BUL2103-DTL3
DRAWN BY:	RCN
SCALE:	N.T.S.
DATE:	12-06-2022
SHEET NO.	C-12



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.	10-8-10

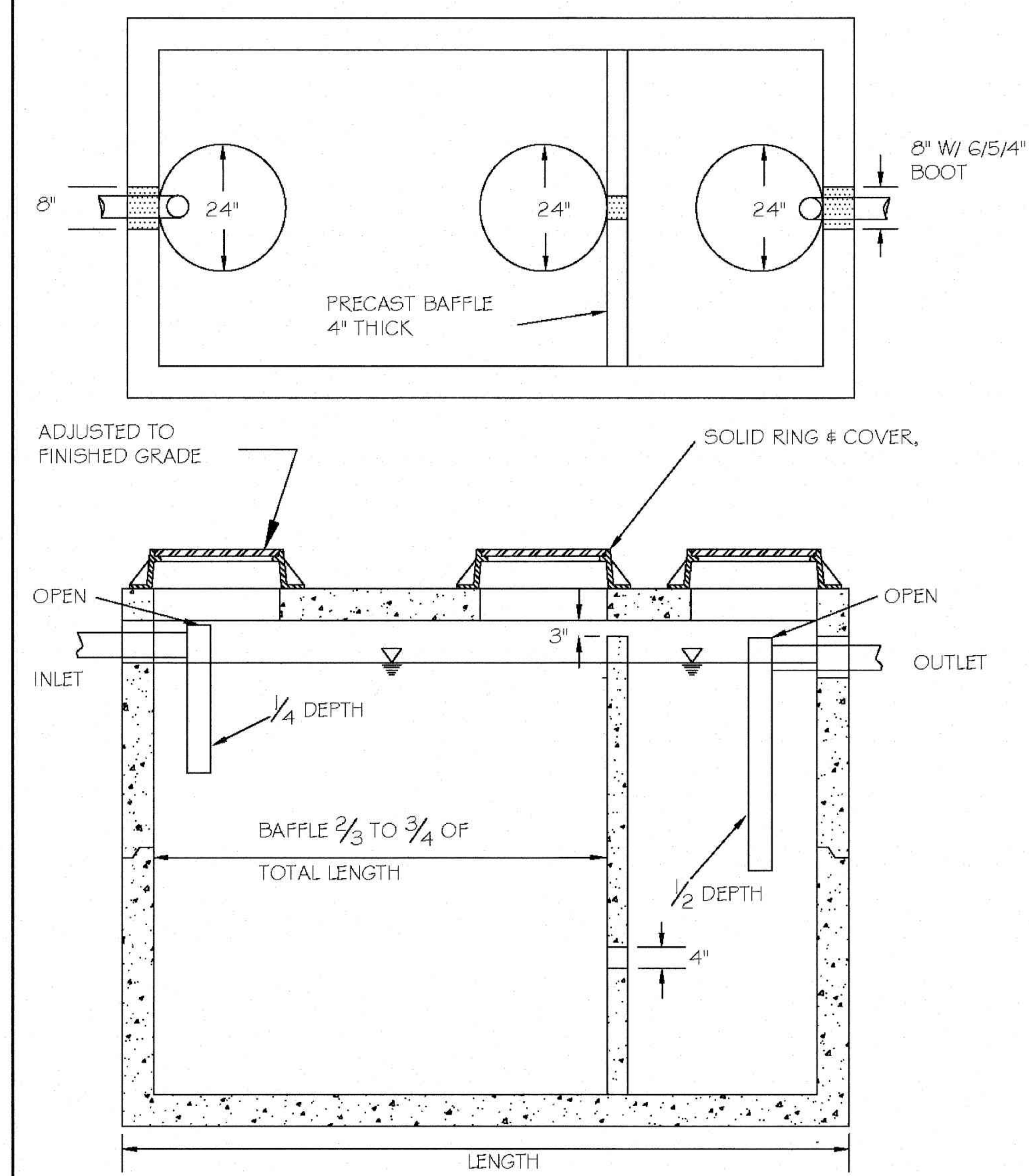


TYPICAL TRENCH BOTTOM DIMENSIONS FOR SDR 35 PVC GRAVITY PIPE

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. EARTHCOVER: 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

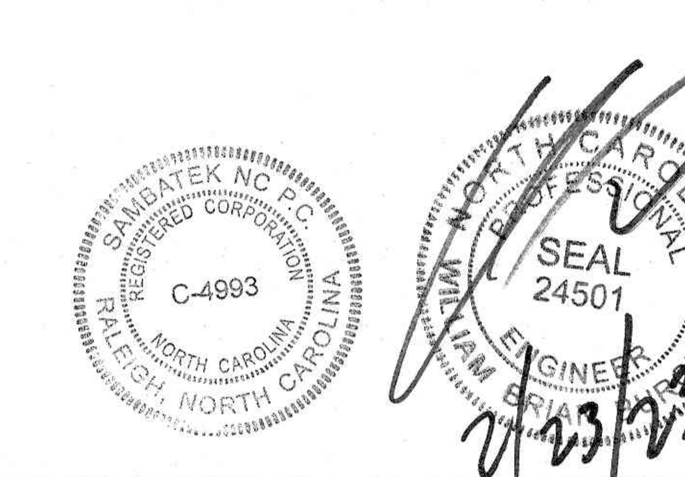
INTERCEPTORS CAPACITY (GAL.)	SEPARATORS CAPACITY (GAL.)
300	1000
550	1200
750	1600
1000	
1200	
1500	
2000	
2500	
3000	
4000	
5000	
6000	
8000	

NOTES:

1. BAFFLE WALL LOCATED AT A DISTANCE FROM INLET WALL 2/3 TO 3/4 OF THE TOTAL LENGTH OF THE INTERCEPTOR OR SEPARATOR AS SHOWN ON DETAIL S-40.
BAFFLE WALLS LOCATED AT A DISTANCE APPROXIMATELY OF 1/3 OF THE TOTAL LENGTH OF THE SEPARATOR AS SHOWN ON DETAIL S-40.01.
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. ACESS 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 FEXURAL 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		



NO.	DATE	DESCRIPTION	BY

REVISIONS

COMMERCIAL SITE DESIGN
A Sambatek Company
(919) 848-6121, FAX: (919) 848-3741
WWW.CSITEDESIGN.COM
8312 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

DETAILS

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

X:\BUL - Bullard, Inc\2103 - Rolesville, NC\CAD\BUL2103-DTL4.dwg, 2/23/2023 8:05:36 AM, chrisn

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 J-BOX AND BLOCKING AT SIGN LOCATIONS AS REQUIRED. SEE ELECT 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/AS501.
22. USE 4" HEAD FRAME AT BRICK VENEER.

EXTERIOR MATERIAL:

EXTERIOR INSULATION & FINISH SYSTEMS (EIFS)

E-1	TYPE:	E.I.F.S.
	MANUFACTURER:	DRYVIT
	COLOR:	627A TWILIGHT GRAY
	FINISH:	SANDPABBLE FINE
	STYLE:	OUTSULATION LCMD-3

METAL

M-1	TYPE:	2-PEICE 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:	GRAY

FIBER CEMENT SIDING

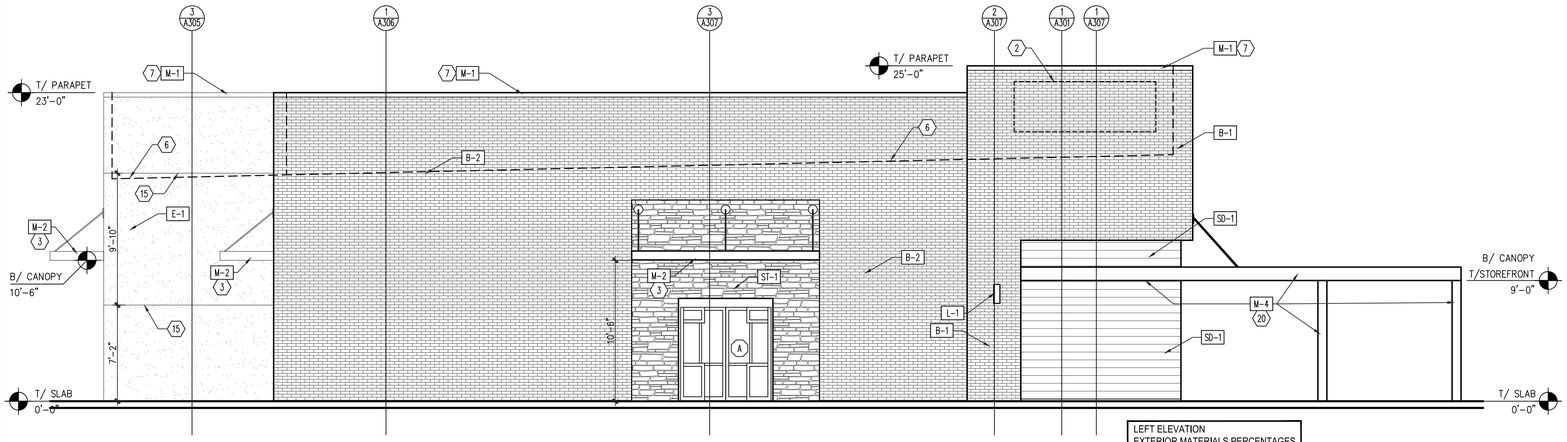
SD-1	TYPE:	VINTAGEWOOD SIDING WITH BUILT-IN RAIN SCREEN
	MANUFACTURER:	NICHIHA
	COLOR:	CEDAR

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.

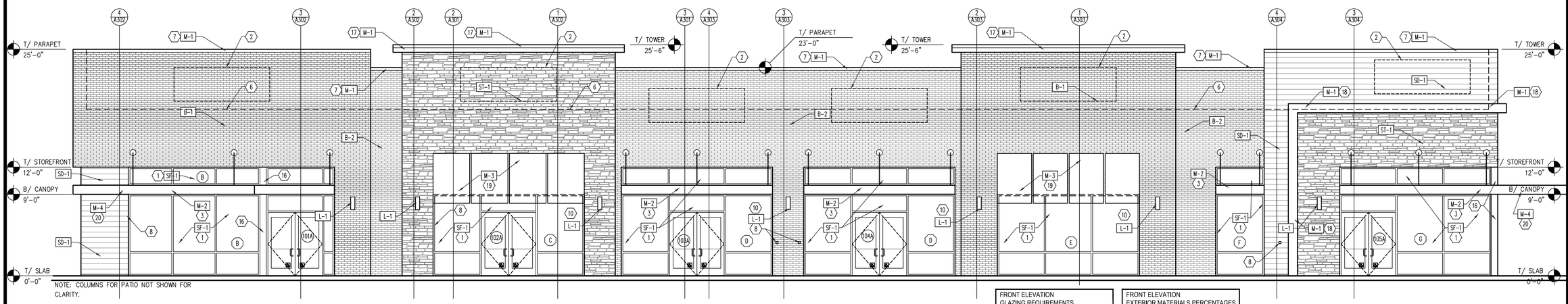


2 A201 LEFT (SOUTH) ELEVATION

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	65%
STONE VENEER:	146	8%
FIBER CEMENT SIDING:	131	7%
D/T WINDOW/DOOR:	54	3%
AWNINGS/CANOPIES/METAL:	47	2%
TOTAL:	1,884	100%



1 A201 FRONT (EAST) ELEVATION

SCALE: 3/16" = 1'-0"

FRONT ELEVATION
GLAZING REQUIREMENTS

MATERIAL	SQ. FT.	PERCENTAGE
STOREFRONT/DOORS:	1,121	39%
TOTAL (TAKEN FROM SLAB TO BOTTOM OF DECK)	2,874	100%

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/CANOPIES/METAL:	302	8%
TOTAL:	3,752	100%

LMHT ASSOCIATES
7208 ACC BLVD. 2ND FLOOR
RALEIGH, NC 27617
phone: 919.844.0027 fax: 919.544.9999

NORTH CAROLINA REGISTERED ARCHITECT 3177 KAREN R. LEHMAN

2/21/23

LMHT Project No. 22245

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

DRAWING: EXTERIOR ELEVATIONS

Revisions

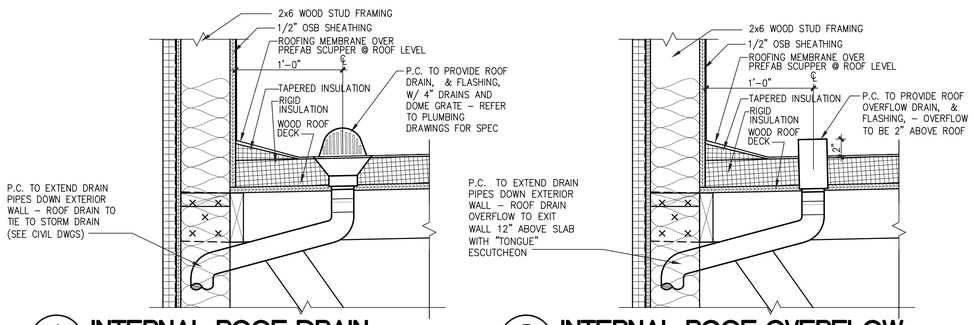
REVISION	DATE

PROJECT DATE
2/21/2023

Drawn By
MTP

Checked By
GRL

Sheet No.
A201



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

3 A202 **INTERNAL ROOF OVERFLOW**
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 J-BOX AND BLOCKING AT SIGN LOCATIONS AS REQUIRED. SEE ELECT 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.
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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/AS501.
22. USE 4" HEAD FRAME AT BRICK VENEER.

EXTERIOR MATERIAL:

EXTERIOR INSULATION & FINISH SYSTEMS (EIFS)

E-1	TYPE:	E.I.F.S.
	MANUFACTURER:	DRYVIT
	COLOR:	627A TWILIGHT GRAY
	FINISH:	SANDPABBLE FINE
	STYLE:	OUTSULATION LCMD-3

METAL

M-1	TYPE:	2-PEICE 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:	GRAY

FIBER CEMENT SIDING

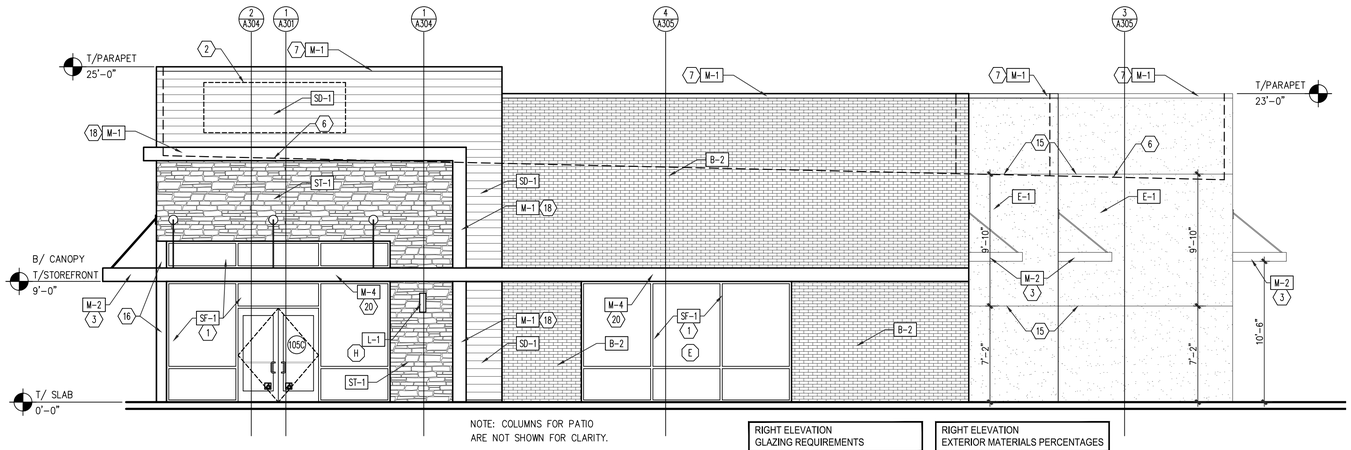
SD-1	TYPE:	VINTAGEWOOD SIDING WITH BUILT-IN RAIN SCREEN
	MANUFACTURER:	NICHIHA
	COLOR:	CEDAR

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.



NOTE: COLUMNS FOR PATIO ARE NOT SHOWN FOR CLARITY.

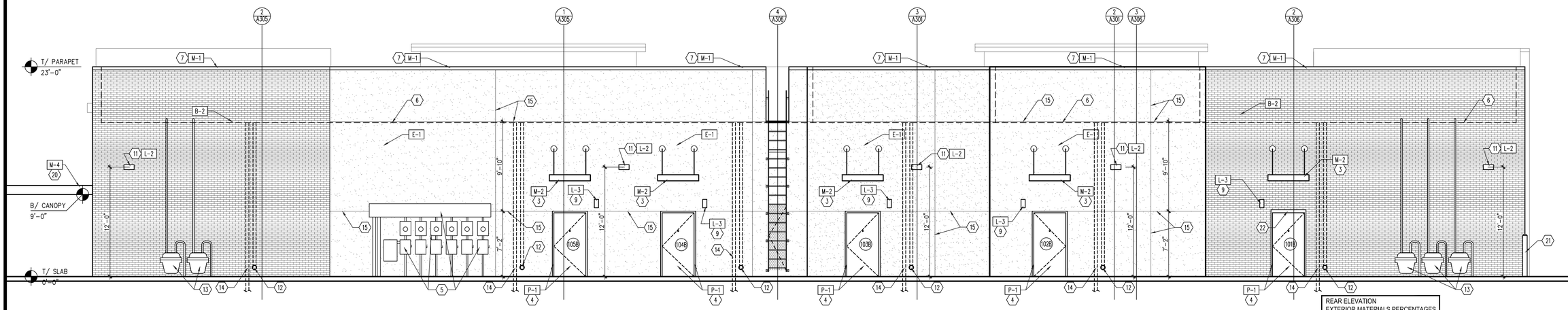
2 A202 **RIGHT (NORTH) ELEVATION**
SCALE: 3/16" = 1'-0"

RIGHT ELEVATION
GLAZING REQUIREMENTS

MATERIAL	SQ. FT.	PERCENTAGE
STOREFRONT/DOORS:	332	31%
TOTAL (TAKEN FROM SLAB TO BOTTOM OF DECK)	1,071	100%

RIGHT ELEVATION
EXTERIOR MATERIALS PERCENTAGES

MATERIAL	SQ. FT.	PERCENTAGE
E.I.F.S. (BEYOND):	439	23%
BRICK VENEER:	611	33%
STONE VENEER:	183	10%
FIBER CEMENT SIDING:	193	10%
STOREFRONT/DOORS:	332	18%
AWNINGS/CANOPIES/METAL:	111	6%
TOTAL:	1,869	100%



1 A202 **REAR (WEST) ELEVATION**
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:	0	0%
H.M. DOORS:	136	4%
AWNINGS/CANOPIES/METAL:	15	1%
TOTAL:	3,558	100%

LMHT Project No. 22245

LMHT ASSOCIATES
7208 ACC BLVD, 2ND FLOOR
RALEIGH, NC 27617
phone: 919.844.0027 fax 919.544.9999

NORTH CAROLINA REGISTERED ARCHITECT 3177 GLEN R. LEHMAN
2/21/23

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

DRAWING: EXTERIOR ELEVATIONS

Revisions

REVISION	DATE

PROJECT DATE 2/21/2023

Drawn By MTP

Checked By GRL

Sheet No. A202