

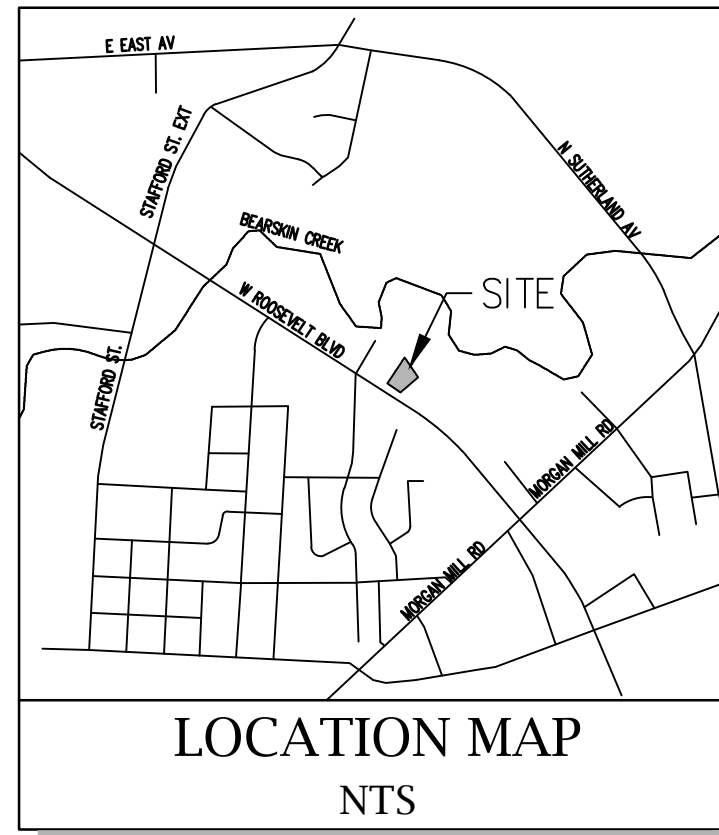
Ay Caramba

A New Family Restaurant



650 West Roosevelt Blvd
Monroe, NC 28110

REV #	DATE:	DESCRIPTION:
2	8-30-22	FOR CONSTRUCTION

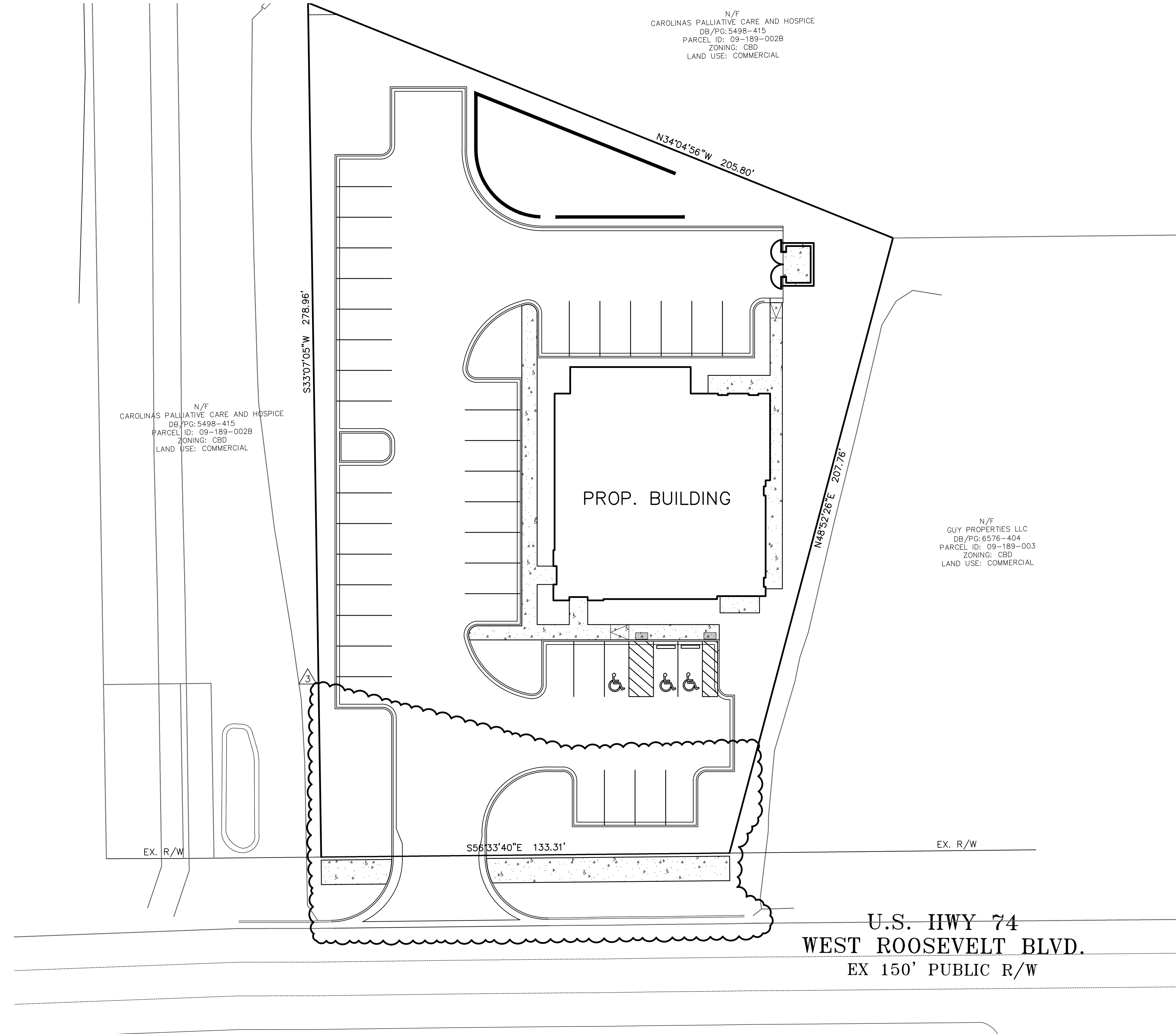
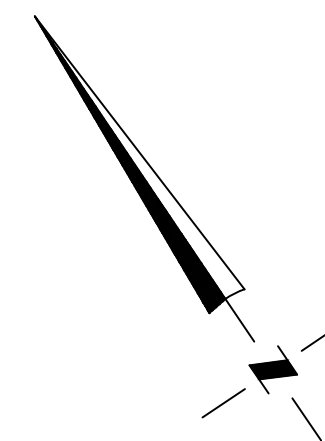
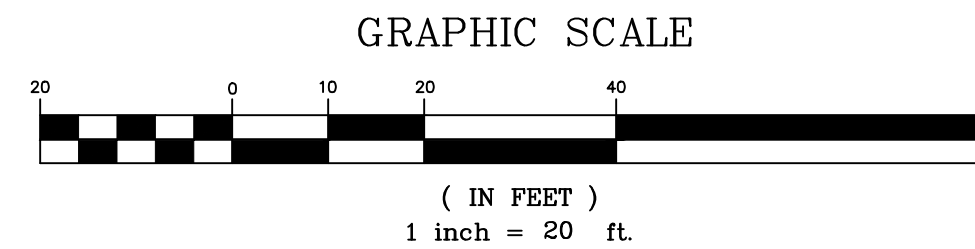


AY CARAMBA

MONROE, UNION COUNTY

650 WEST ROOSEVELT BOULEVARD

MONROE, NC 28110



EXISTING CONDITIONS AND DEMOLITION PLAN	
SITE PLAN	C1.0
UTILITY PLAN	C2.0
EROSION CONTROL PLAN PH1	C3.0
EROSION CONTROL PLAN PH2	C3.1
NGC01 STANDARD NOTES	C3.2
GRADING PLAN	C4.0
STORMWATER SCM DETAIL PLAN	C4.1
PRE-DEVELOPMENT DRAINAGE AREA PLAN	C4.2
POST-DEVELOPMENT DRAINAGE AREA PLAN	C4.3
LANDSCAPE PLAN	C5.0
INTERSECTION SIGHT DISTANCE	C6.0
TRAFFIC CONTROL PLAN	C6.1
SITE DETAILS	C9.0-C9.4

SHEET INDEX

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXERCISING REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE ILLUSTRATED DESIGN.

2. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC, AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, CONTRACTOR SHALL REPAIR IMMEDIATELY AS DIRECTED BY THE ENGINEER.

3. CONTRACTOR SHALL HOLD HARMLESS THE OWNER AND THE ENGINEER FOR DAMAGES, INJURIES OR OTHER ACCIDENTS WHICH OCCUR DURING THESE CONSTRUCTION ACTIVITIES.

4. TREES AND EXISTING LANDSCAPING NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF ALL ILLUSTRATED CONSTRUCTION ACTIVITIES AT THE JOB SITE.

6. SAFETY PROVISIONS: THE CONTRACTOR SHALL COMPLY WITH THE "RULES AND REGULATIONS GOVERNING THE CONSTRUCTION INDUSTRY" AS PROMULGATED FOR THE HEALTH, SAFETY AND GENERAL WELFARE OF EMPLOYEES BY THE COMMISSION OF LABOR UNDER GENERAL STATUTES OF NORTH CAROLINA, AND 29CFR PART 1926 AND PART 1910. ARTICULAR REFERENCE IS MADE BUT NOT LIMITED TO THE FOLLOWING RULES AND REGULATIONS: BUILDING CONSTRUCTION WORK, DEMOLITION, EXCAVATION, PERMIT REQUIRED CONFINED SPACES AND TRENCHING. IN ADDITION TO THE FOREGOING SAFETY PROVISIONS, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR AND COMPLY WITH THE DEPARTMENT OF LABOR SAFETY REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (L 91-54). WHERE THE REQUIREMENTS OF THESE ACTS ARE IN EXCESS OF THOSE REQUIREMENTS SPECIFIED, THE REQUIREMENTS OF THESE ACTS SHALL GOVERN. SHOULD THE PLANS OR SPECIFICATIONS REQUIRE MATERIALS OR METHODS IN CONFLICT WITH THE SAFETY AND HEALTH REGULATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST OF THE ENGINEER ANY CHANGES THAT MAY BE NECESSARY.

7. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT HIS EXPENSE.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION ADJUSTMENTS OF ALL EXISTING VAULTS (REGARDLESS OF FUNCTION), METER BOXES, FIRE HYDRANTS, CLEAN OUTS, MANHOLES ETC. TO MATCH FINISHED GRADES AND SITE PLAN. ALL SUCH WORK SHALL BE COORDINATED WITH THE ENGINEER.

9. UTILIZE SIGNS, BARRICADES, FLAGMEN, OR GUARDS AS REQUIRED TO ENSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC DURING ALL CONSTRUCTION ACTIVITIES.

10. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ADJACENT PROPERTY OWNERS AS REQUIRED FOR WORK OUTSIDE OF PROPERTY LINES. UNDER ABSOLUTELY NO CIRCUMSTANCES SHALL ANY UNMANNED EXCAVATION BE LEFT OPEN OR UNPROTECTED DURING NON-WORKING HOURS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK AS ILLUSTRATED ON PLANS. IF EXISTING CONDITIONS DIFFER FROM THOSE ILLUSTRATED ON PLANS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION.

12. VERIFY ALL DIMENSIONS AND GRADES AT THE JOB SITE. IF DIFFERENCES ARE FOUND, NOTIFY ENGINEER SO THAT MODIFICATIONS TO THESE DRAWINGS CAN BE MADE.

13. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY OF MONROE EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.

14. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

15. PROJECTS DISTURBING LESS THAN 1 ACRE DO NOT FALL UNDER THE NCG01 PERMIT. ANY QUESTIONS IN REFERENCE TO THE CITY OF MONROE GRADING PERMIT CAN BE DIRECTED TO THE CITY OF MONROE ENGINEERING DEPARTMENT. THE CITY OF MONROE EROSION CONTROL SECTION IS AN AUTHORIZED STATE DELEGATED PROGRAM.

16. THE CITY OF MONROE ENGINEERING DEPARTMENT HAS NOT REVIEWED THE STRUCTURAL STABILITY OF ANY RETAINING WALLS ON THE SITE AND DOES NOT ASSUME RESPONSIBILITY FOR THEM.

17. ALL SUBSURFACE DRAINAGE PIPE SHALL BE AS SPECIFIED ON THE PLANS SHEETS C4.0.

18. EXISTING CONTOURS SHOWN ARE AT 1-FOOT INTERVALS.

19. ALL CONSTRUCTION ACTIVITY AND MATERIALS SHALL CONFORM TO THE CITY OF MONROE STANDARDS AND SPECIFICATIONS DETAIL MANUAL AND NCDOT STANDARDS AND SPECIFICATIONS.

20. IN AREAS WHERE 2 FEET OF COVER CAN NOT BE MAINTAINED OVER STORM DRAIN PIPES, THE CONTRACTOR IS TO SUBSTITUTE CLASS IV ROP.

21. THE UTILITIES AND THE LOCATIONS THEREOF, SHOWN ON THE DRAWING REPRESENT THE DESIGNERS UNDERSTANDING OF EXISTING UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND EXISTENCE OF ALL UTILITIES (ELECTRICAL, MECHANICAL, WATER, SEWER, TELEPHONE, GAS, ETC.) WITHIN THE CONSTRUCTION AREA WITH THE UTILITY OWNER AND/OR THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING ANY EXCAVATION. THE OMISSION OF OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF, OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO CALL NORTH CAROLINA 1-CALL (FORMERLY ULOCO) AT (800) 632-4849 AND OTHER UTILITY PROVIDERS NOT A MEMBER OF THE 1-CALL SERVICE.

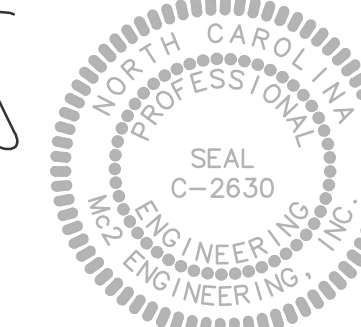
22. THERE SHALL BE NO ON-SITE BURIAL PITS. ALL SOLID WASTE GENERATED FROM THE PROJECT INCLUDING CONSTRUCTION AND LAND CLEARING DEBRIS, ETC. WILL BE PROPERLY DISPOSED OF OFFSITE IN AN APPROVED DISPOSAL FACILITY.

23. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FEATURES AND TOPOGRAPHY AS NEEDED DURING CONSTRUCTION STAKING.

24. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFFSITE GRADING, PERMISSION MUST BE OBTAINED FROM AFFECTED PROPERTY OWNERS PRIOR TO GRADING ACTIVITIES. SHOULD FIELD CONDITIONS WARRANT DISTURBING SITE AREAS IN EXCESS OF THE AMOUNT OF DISTURBED ACREAGE APPROVED, THE CONTRACTOR SHALL FIRST OBTAIN APPROVAL FROM THE CITY OF MONROE EROSION CONTROL INSPECTOR WHICH MAY REQUIRE REVISIONS TO THE EROSION CONTROL PERMIT.

25. THE DEVELOPMENT WILL ADHERE TO ALL DIMENSIONAL REQUIREMENTS SET FORTH FOR THEIR RESPECTIVE DISTRICTS IN THE TOWN OF WAXHAW LAND DEVELOPMENT CODE.

26. CURB-MIN. 20' RADIUS, R/W MIN. 30' RADIUS AT COLLECTOR ROADS & 20' MIN. R/W RADIUS OTHERWISE.

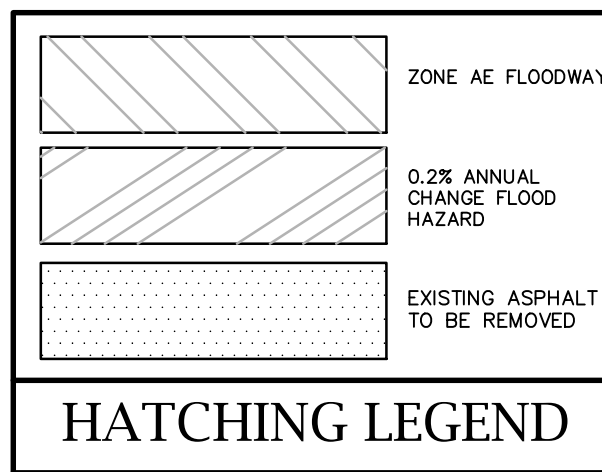


CAD FILE:	22-008 BASE.DWG
PROJECT NO.:	22-008
DESIGNED BY:	JDM
SUBMITTAL DATE:	AUGUST 30, 2022

REVISIONS	
1	9/30/22 CITY COMMENTS
2	10/28/22 VARIOUS COMMENTS
3	2/6/23 VARIOUS COMMENTS
4	2/21/23 MONROE STORMWATER

AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

Mc²
ENGINEERING
Mc² ENGINEERING, INC.
2110 BEN CRAIG DR.
SUITE 400
CHARLOTTE, NC 28262
PHONE 704.510.9797

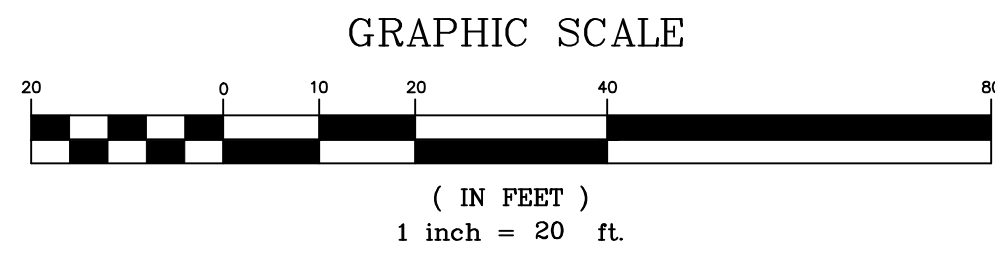


STANDARD SYMBOLS

SURVEY LEGEND

DEMOLITION NOTES

1. THE CONTRACTOR SHALL OBTAIN NECESSARY DEMOLITION PERMIT PRIOR TO ANY REMOVAL OF STRUCTURES, UTILITIES OR EQUIPMENT.
2. SITE DEMOLITION WORK SHALL INCLUDE REMOVAL OF ALL BUILDING STRUCTURES, ASSOCIATE UTILITIES, FOUNDATIONS, CONCRETE WALKS, CURB AND GUTTER AND SPECIFIED ASPHALT.
3. THE CONTRACTOR SHALL NOTIFY ALL PERTINENT UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION WORK.
4. TRENCHES AND EXCAVATION AREAS SHALL BE RECOMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY.
5. THE CONTRACTOR SHALL PROVIDE TREE PROTECTION FOR EXISTING TREES WHERE SPECIFIED.
6. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT A PERMITTED FACILITY.
7. REFER TO SHEET C3.0 FOR PLACEMENT OF EROSION CONTROL MEASURES AND RELATED NOTES.
8. THE REMOVAL OR RELOCATION OF EXISTING LIGHT POLES SHALL BE COORDINATED WITH RESPECTIVE UTILITY OR LIGHTING COMPANY.
9. EXISTING PAVEMENT AND CURB SHOWN TO BE REMOVED SHALL BE SAW CUT.



THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF
Mc2 ENGINEERING, INC. REPRODUCTION OR USE FOR ANY
PURPOSE OTHER THAN THAT AUTHORIZED BY Mc2
ENGINEERING, INC. IS PROHIBITED. 2021 ©

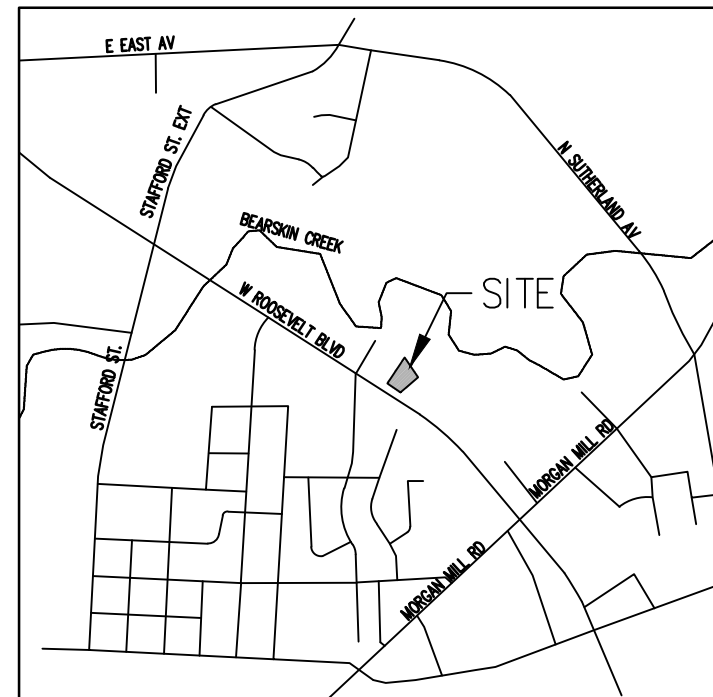
AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

DEMO PLAN

[illegible]

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-00
DESIGNED BY: JD
REVIEWED BY: JD
DATE: AUGUST 30, 202

C1.0



LOCATION MAP
NTS

TOTAL SITE AREA: 0.91 ACRES (±39,811 SF)
PARCEL IDS: 09-189-002
JURISDICTION: CITY OF MONROE
DEED BOOK / PAGE: 8130 / 259
CURRENT ZONING: GB
CURRENT USE: VACANT
PROPOSED USE: COMMERCIAL (RESTAURANT)
FRONT SETBACK: 50'
REAR SETBACK: 10'
SIDEYARD SETBACK: 10'

PARKING CALCULATIONS
REQUIRED PARKING: 26
-1 SPACE PER 200 SF (PROPOSED BUILDING IS 5,100 SF)
PROPOSED ON-SITE PARKING: 41
REQUIRED HANDICAP PARKING: 3
- 2 VAN ACCESSIBLE SPACE

IMPERVIOUS CALCULATIONS
PROPOSED CONCRETE: 1,635 SF
PROPOSED ASPHALT: 19,370 SF
PROPOSED BUILDING: 5,100 SF

DEVELOPMENT SUMMARY

KEY NOTES:
(A) INSTALL STANDARD 1'-6" CURB AND GUTTER. SEE DETAILS 1-2/C9.0.

(B) CONTRACTOR SHALL INSTALL TRUNCATED DOMES PER DETAIL 4/C9.0.

(C) SEE DETAIL 9/C9.0 FOR PROPOSED DUMPSTER ENCLOSURE. ENCLOSURE SHALL INCLUDE 2 BOLLARDS IN REAR OF DUMPSTER.

(D) INSTALL STANDARD DUTY ASPHALT PAVEMENT PER TYPICAL SECTION 3/C9.1.

(E) INSTALL HANDICAP ACCESSIBLE RAMP (WIDTH SHOWN ON PLANS) PER DETAILS 5-6/C9.0. RAMP SHALL INCLUDE TRUNCATED DOMES PER DETAIL 4/C9.0.

(F) INSTALL SIDEWALK SEE PROPOSED WIDTH ON PLANS SEE DETAIL 3/C9.0.

(G) INSTALL HANDICAP PARKING SIGNAGE SEE DETAILS 5-6/C9.1.

(H) CITY OF MONROE 35' X 35' SIGHT TRIANGLE

(I) 10' X 70' SIGHT TRIANGLE

(J) INSTALL HEAVY DUTY CONCRETE PAVEMENT PER TYPICAL SECTION 3/C9.1.

(K) 122 LF OF SEGMENTAL BLOCK RETAINING WALL. SEE GRADING PLAN (C4.0) FOR PROPOSED SPOT GRADES. WALL TO BE DESIGNED, PERMITTED AND CERTIFIED BY OTHERS.

(L) 42 LF OF SEGMENTAL BLOCK RETAINING WALL. SEE GRADING PLAN (C4.0) FOR PROPOSED SPOT GRADES. WALL TO BE DESIGNED, PERMITTED AND CERTIFIED BY OTHERS.

(M) INSTALL CONCRETE WHEEL STOP PER DETAIL 5/C9.0.

(N) CONTRACTOR SHALL REPAIR EXISTING ROAD SURFACE AFTER INSTALLATION OF NEW STORM WATER SERVICE. REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH (CITY OF MONROE 02.06.01) SEE DETAIL 9/C9.1.

SITE NOTES:

1. DIMENSIONS AND COORDINATE POINTS ARE TO BACK OF CURB OR CORNER OF BUILDING UNLESS OTHERWISE NOTED.

2. ANY DISCREPANCIES FOUND IN THE FIELD SHALL BE CALLED TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO PROCEEDING WITH WORK.

3. PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND APPROVALS NOT ALREADY OBTAINED BY THE DESIGN TEAM FROM ALL REGULATORY AUTHORITIES AND SHALL KEEP COPIES OF ALL APPLICABLE PERMITS ON SITE.

4. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHT-OF-WAYS, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.

5. GENERAL CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND THE PUBLIC SHALL BE PROTECTED FROM INJURY.

6. DO NOT SCALE DRAWING FOR ACTUAL DIMENSIONS, AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.

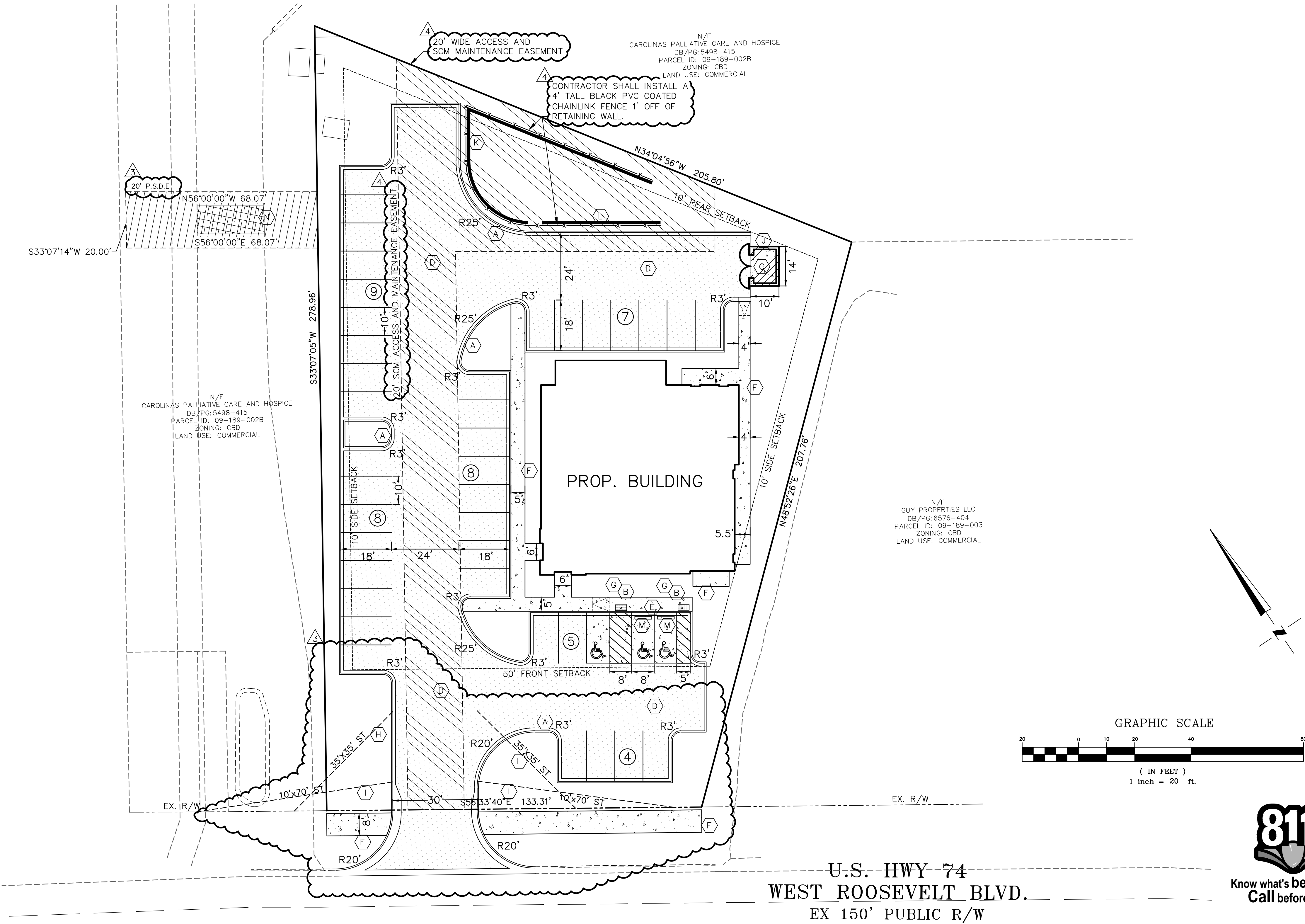
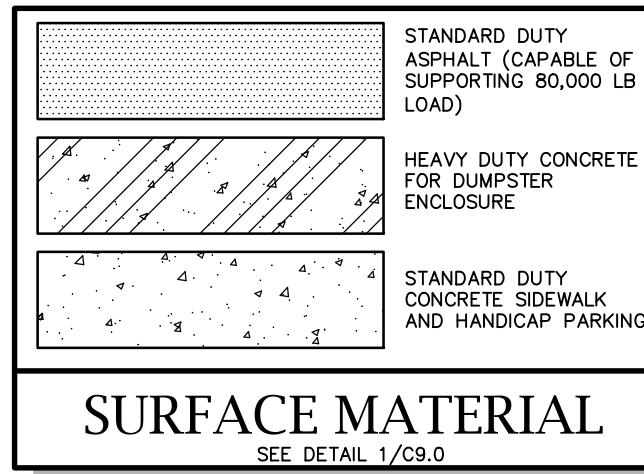
7. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(MUTCD), 1988 EDITION AS AMENDED.

8. ALL PAVEMENT MARKINGS SHALL BE FOUR (4) INCHES WIDE "YELLOW" UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

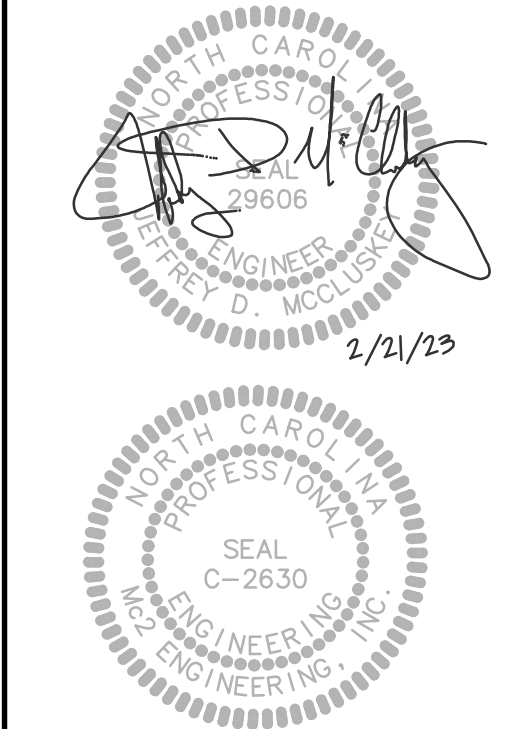
9. CONTRACTOR SHALL SAW-CUT EXISTING ASPHALT PAVEMENT AREAS TO TIE IN SMOOTHLY TO PROPOSED PAVEMENT AT CONNECTION TO NEW ASPHALT PARKING AREA.

CITY OF MONROE ZONING NOTES:

AN AS-BUILT SURVEY SHALL BE REQUIRED FOR ALL NEW, EXPANDED, OR RELOCATED STRUCTURES WHICH SHALL ACCURATELY SHOW THE FOOTPRINT OF THE STRUCTURE, APPURTENANCES, ALL EXISTING STRUCTURES, APPLICABLE SETBACKS, AND PROPERTY BOUNDARY LINES PRIOR TO THE RELEASE OF ANY CERTIFICATE OF OCCUPANCY. **ALL ZONING REQUIREMENTS MUST BE INSPECTED BY THE ZONING OFFICER PRIOR TO REQUESTING A CERTIFICATE OF OCCUPANCY IF REQUIRED.** CALL 704.282.4524 TO SCHEDULE A ZONING INSPECTION.



Mc² ENGINEERING
MC² ENGINEERING, INC.
2110 BEN CRAIG DR., STE. 400
CHARLOTTE, NC 28262
PHONE 704.510.9797



THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF MC² ENGINEERING, INC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY MC² ENGINEERING, INC. IS PROHIBITED.

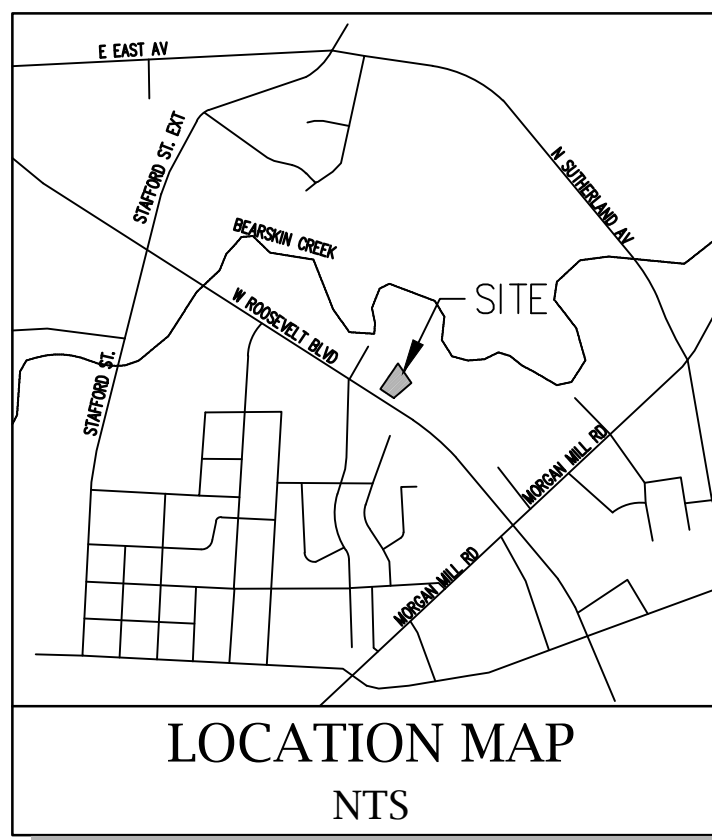
AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

SITE
PLAN

REVISIONS		
1	9/30/22	CITY COMMENTS
2	10/28/22	VARIOUS COMMENTS
3	2/6/23	VARIOUS COMMENTS
4	2/21/23	MONROE STORMWATER

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2022

C2.0



SITE/UTILITY NOTES

- SITE/UTILITY NOTES:**
1. MAINTAIN MINIMUM 10' HORIZONTAL SEPARATION BETWEEN WATER LINE AND OTHER UTILITY LINES.
 2. CONTRACTOR TO LOCATE BUILDING TIE-INS PER PLUMBING PLANS.
 3. ALL BACKFLOW PREVENTERS SHALL BE IN ACCORDANCE WITH APPENDIX B OF THE NORTH CAROLINA "RULES GOVERNING PUBLIC WATER SYSTEMS"
 4. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BY-PASS HYDRANTS, FIRE DEPARTMENT CONNECTIONS OR OTHER WATER USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND THE REQUIRED BACKFLOW ASSEMBLY.
 5. REQUIRED BACKFLOW PREVENTER SHALL BE TESTED BY AN APPROVED CERTIFIED TESTER PRIOR TO PLACING WATER SYSTEM IN SERVICE.
 6. WATER SERVICE TO BE INSTALLED PER CITY OF MONROE REQUIREMENTS.
 7. NO PERMANENT INSULATION MAY BE INSTALLED ON THE BP ASSEMBLY.
 8. WATERLINE SHALL BE INSTALLED WITH A MINIMUM OF 36" OF COVER.
 9. CONTRACTOR SHALL INSTALL A COPPER TRACER WIRE WITH PROPOSED PVC WATERLINE FOR FUTURE LOCATING. CONTRACTOR SHALL PROVIDE EXTRA LOOP OF TRACER IN VALVE BOXES.
 10. CONTRACTOR SHALL FURNISH TRAFFIC BEARING SANITARY SEWER CLEANOUT COVERS IN ALL TRAFFIC BEARING LOCATIONS AND SIDEWALKS.
 11. ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND

1 CITY OF MONROE UTILITY NOTES:

1. THE WATER MAINS ALONG US HWY 74 ARE ASBESTOS CEMENT. NO SIGNIFICANT GRADING SHALL OCCUR OVER THE WATER MAINS. NO LARGE/HEAVY EQUIPMENT SHALL BE PARKED OVER THE WATER MAINS. PLEASE CONTACT CHARLES DERRICK AT 704.282.4610 WITH ANY QUESTIONS.
2. SHOP DRAWINGS OF ALL CONTRACTOR INSTALLED METERS, BACKFLOW DEVICES AND VAULTS MUST BE SUBMITTED TO THE WATER RESOURCES ENGINEERING DIVISION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. A CITY OF MONROE WATER RESOURCES DEPARTMENT STAMPED APPROVAL OF THE SHOP DRAWINGS SUBMITTALS SHALL BE SENT TO THE CONTRACTOR. ALL INSTALLED METERS, BACKFLOW DEVICES AND VAULTS NOT MEETING THE REQUIREMENTS OF THE CITY OF MONROE WATER RESOURCES DEPARTMENT STAMPED APPROVED SHOP DRAWINGS SHALL BE REJECTED. FAILURE TO SUBMIT SHOP DRAWINGS OF ALL METERS, BACKFLOW DEVICES AND VAULTS WILL RESULT IN A DELAY IN THE INSPECTION OF THE INSTALLATION AND A DELAY IN OBTAINING THE BUILDING'S CERTIFICATE OF OCCUPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPLACE UNAPPROVED INSTALLATION OR INSTALLATIONS NOT MEETING ALL REQUIREMENTS.
3. PLEASE CONTACT CHARLES DERRICK, WATER RESOURCES MAINTENANCE SUPERINTENDENT, AT 704.282.4610 TO CONDUCT AN ONSITE INSPECTION OF THE METER AND BACKFLOW INSTALLATION AND VERIFY THE RADIO READ SIGNAL OF THE METER ARE FUNCTIONING PROPERLY. THE APPLICANT MUST INSTALL THE METERS AND BACKFLOWS IN ACCORDANCE WITH THE CITY OF MONROE STANDARD SPECIFICATIONS AND DETAILS. ANY THEN SHALL CONTACT THE WATER RESOURCES DEPARTMENT 72 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION OF ALL CONTRACTOR INSTALLED METERS. FAILURE TO CONTACT THE WATER RESOURCES MAINTENANCE SUPERINTENDENT WILL RESULT IN A DENIAL OF THE RELEASE OF CERTIFICATE OF OCCUPANCY.
4. SEE DETAIL 3. ON SHEET C9.3 FOR THE CITY OF MONROE STANDARD DETAILS FOR METERS.
5. CONTRACTOR SHALL INSTALL AND TEST A REDUCED DETECTOR PRESSURE ZONE ASSEMBLY BACKFLOW PREVENTION DEVICE APPROVED BY CITY OF MONROE FIRE SERVICE BETWEEN CITY METER BOX AND FIRST BRICK TAP. DEVICE SHALL BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN.
6. CONTRACTOR SHALL REQUIRE HIS/HER PLUMBER TO DETERMINE IF A BACKFLOW IN ACCORDANCE WITH THE NC STATE BUILDING CODE, VOLUME II OR VOLUME VII. IF REQUIRED, A BACKFLOW PREVENTER CERTIFICATION OF PLUMBING INDICATOR THAT PLUMBER HAS DETERMINED ELEVATION OF CLOSEST UPSTREAM MANHOLE OF PUBLIC SEWER IS BELOW THE ELEVATION OF ALL PLUMBING FIXTURES INSTALLED. APPROXIMATE LOCATION OF CLOSEST UPSTREAM MANHOLE ON CITY OF MONROE PUBLIC SEWER IS ON CIVIL PLANS, PLUMBER 704.282.4601. IF ASSISTANCE FROM CITY IN LOCATING MANHOLE IS REQUIRED.
8. PURSUANT TO NORTH CAROLINA GS 143-355.4, ALL NEW NEW 10-ROUND IRRIGATION SYSTEMS INSTALLED BY THE CONTRACTOR SHALL BE CONNECTED TO A SEPARATE WATER METER.
9. DRIVEWAYS SHALL BE LOCATED SIX (6) FEET AWAY FROM FIRE HYDRANTS IF LOCATED ON PROPERTY.
10. ANY GRADING RESULTING IN GRADE CHANGES AROUND FIRE HYDRANTS OR WATER VALVES SHALL REQUIRE FIRE HYDRANTS OR WATER VALVES TO BE ADJUSTED AT THE CONTRACTOR'S EXPENSE.
11. NO METER BOX OR SEWER CLEANOUT SHALL BE LOCATED WITHIN THE DRIVEWAY. ANY CONFLICTS SHALL REQUIRE THE CONTRACTOR TO PAY FOR THE SERVICES TO BE RELOCATED BY THE WATER RESOURCES DEPARTMENT.
12. SEWER CLEANOUTS SHALL BE LOCATED OUTSIDE OF ANY LOW LYING AREAS NOT SUBJECT TO RUNOFF.
13. NO PERMANENT STRUCTURES, FENCES, EXTENSIVE LANDSCAPING OR TREES SHALL BE PLACED WITHIN 10' OF A WATER MAIN OR WITHIN 15' OF A SANITARY SEWER MAIN.

14. ANY GRADING RESULTING IN DEPTH OF COVER OVER EXISTING WATER OR SEWER MAINS SHALL REQUIRE WRITTEN APPROVAL FROM WATER RESOURCES DEPARTMENT.
15. ANY CONFLICTS WITH EXISTING MAINS OR APPURTENANCES SHALL BE BROUGHT TO THE ATTENTION OF THE WATER RESOURCES ENGINEER FOR REVIEW AND APPROVAL AND RESOLVED AT THE DEVELOPERS EXPENSE.
16. WATER AND SEWER TAPS ARE TO BE INSTALLED BY A LICENSED UTILITY CONTRACTOR. SEWER TAPS FOR A 6" SERVICE MUST BE MADE TO A MANHOLE. THE WATER AND SEWER TAPS MUST BE INSTALLED UNDER THE SUPERVISION OF THE WATER RESOURCES MAINTENANCE SUPERINTENDENT OR AN AUTHORIZED REPRESENTATIVE. TAPS MUST BE SCHEDULED A MINIMUM OF 72-HOURS IN ADVANCE. CONTACT CHARLES DERRICK AT (704) 282-4610 TO SCHEDULE TAPS.
17. THE SEWER SERVICE INSTALLATION MAY RESULT IN RE-GRADING OVER TOP THE EXISTING 8" AC WATER MAIN ALONG US HWY 74. CONTRACTOR TO PROTECT ALL UTILITY FEATURES IN PLACE AND ADJUST THEM FLUSH WITH FINAL GRADE. A MINIMUM OF 3' OF COVER IS REQUIRED FOR WATER MAINS.
18. AN ENCROACHMENT AGREEMENT WITH NCDOT IS REQUIRED FOR THE WATER SERVICE INSTALLED BY A UTILITY CONTRACTOR WITHIN THE US HWY 74 RIGHT-OF-WAY.
19. PLEASE CONTACT THE PRETREATMENT COORDINATOR, KEVIN KESLER, AT 704-282-4632 WITH ANY QUESTIONS BEFORE ORDERING THE TAP. TO SCHEDULE AN ONSITE INSPECTION OF THE GREASE TRAP. GREASE TRAP MUST BE INSPECTED PRIOR TO BACKFLOWING.
20. 72 HOURS ADVANCE NOTICE IS REQUIRED PRIOR TO INSPECTION VISIT. GREASE TRAP SHALL BE CLEANED PRIOR TO THE INSPECTION UNLESS IT IS A NEW UNIT.
21. CONTRACTOR SHALL INSTALL AND TEST A REDUCED PRESSURE ZONE ASSEMBLY BACKFLOW PREVENTION DEVICE APPROVED BY CITY ON BUILDING SIDE OF STREET BETWEEN CITY METER BOX AND FIRST BRANCH TAP. DEVICE SHALL BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN,

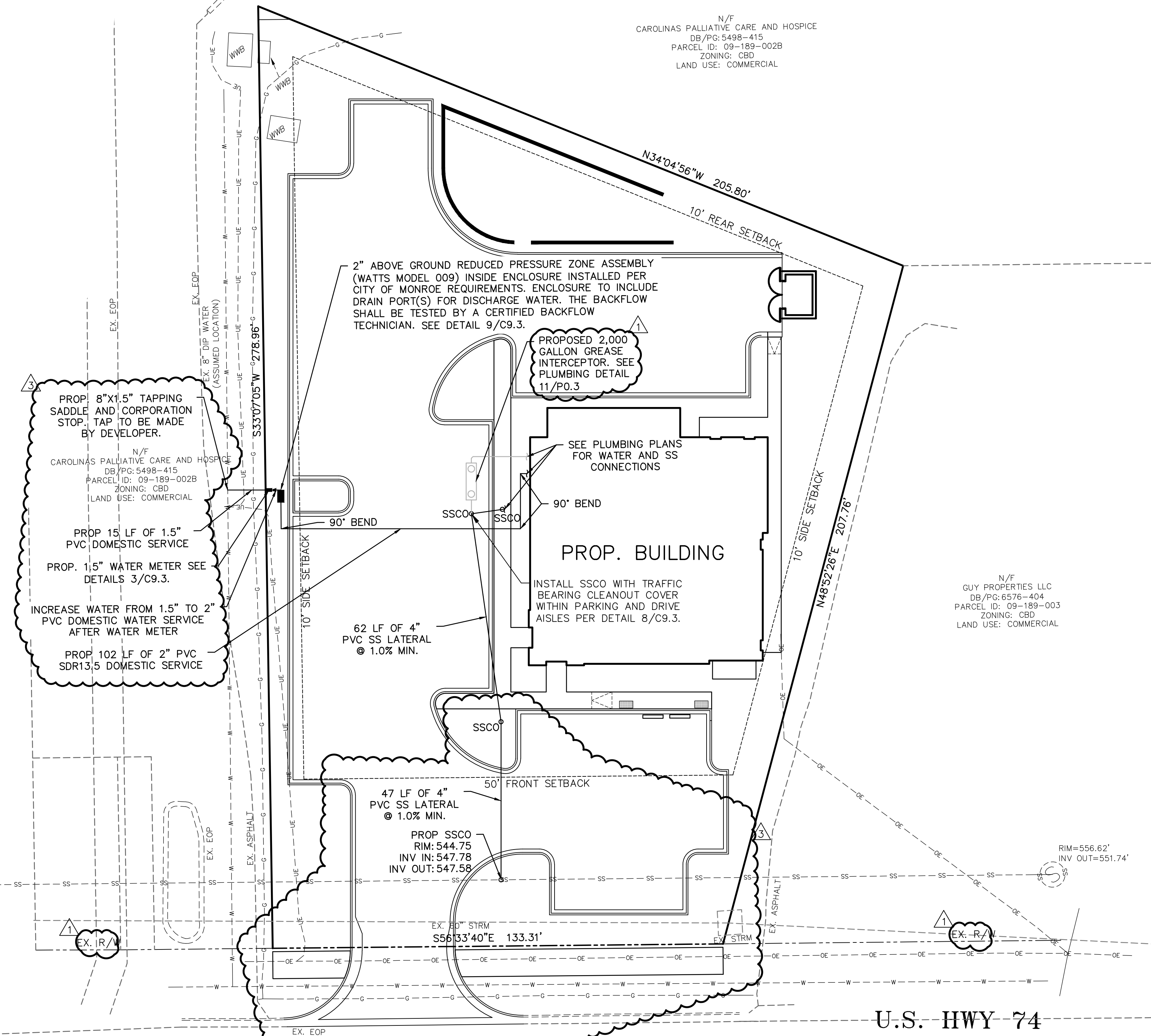
RELATION OF WATER MAINS TO SEWERS (TAKEN FROM 15A NCAC 18C SECTION .0906 AND 15A NCAC 2T :

LATERAL SEPARATION OF SEWERS AND WATER MAINS

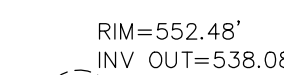
1. SEWER AND WATER MAINS SHALL HAVE AT LEAST A 10 FEET HORIZONTALLY SEPARATION MEASURED FROM OUTSIDE EDGE TO OUTSIDE EDGE OF PIPE.
 2. IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS DESCRIBED ABOVE OR ANYTIME THE SEWER IS OVER THE WATER MAIN, BOTH THE WATER MAIN AND SEWER MUST BE CONSTRUCTED OF FERROUS PIPE COMPING WITH PUBLIC WATER SUPPLY DESIGN STANDARDS AND BE PRESSURE TESTED TO 150 PSI TO ASSURE WATERTIGHTNESS BEFORE BACKFILLING.
 3. A 24 INCH VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR FERROUS PIPE SPECIFIED.
- CROSSING A WATER MAIN OVER A SEWER
4. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT BOTH THE BOTTOM OF THE WATER MAIN IS AT LEAST 24 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 24 INCH VERTICAL SEPARATION IN WHICH CASE BOTH THE WATER MAIN AND SEWER 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.
- CROSSING A WATER MAIN UNDER A SEWER
5. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER 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. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

CROSSING A WATER MAIN UNDER A SEWER

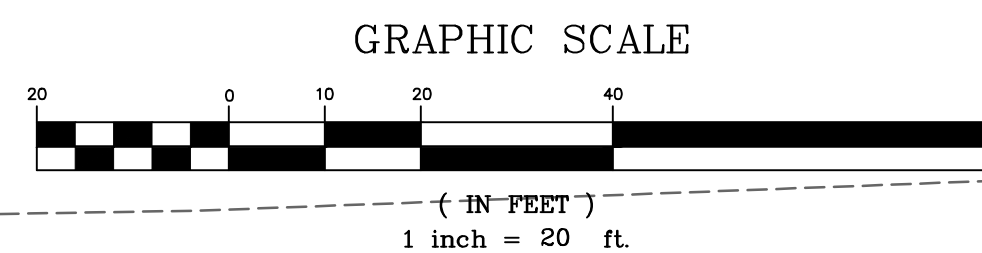
5. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.



U.S. HWY 74
WEST ROOSEVELT BLVD.
EX 150' PUBLIC R/W



Know what's **below**.
Call before you dig.



THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF
Mc2 ENGINEERING, INC. REPRODUCTION OR USE FOR ANY
PURPOSE OTHER THAN THAT AUTHORIZED BY Mc2
ENGINEERING, INC. IS PROHIBITED. 2021 ©

AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

UTILITY PLAN

[illegible]

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2022

C2.1



SOIL TYPE:
BuB - Badin Urban Land Complex
CnB - CID Urban Land Complex

TEMPORARY SILT FENCE

STONE OUTLET

TEMPORARY SILT FENCE

1. TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE PROVIDED FOR ALL LAND DISTURBING WORK IN ACCORDANCE WITH AN EROSION CONTROL PLAN REVIEWED AND APPROVED BY THE CITY OF MONROE ENGINEERING DEPARTMENT.

- CITY OF MONROE CONSTRUCTION SEQUENCE NOTE

- BC = BACK OF CURB
TS = TOP OF SIDEWALK
HC = HANDICAP
BW = BOTTOM OF WALL
EP = EDGE OF PAVEMENT
HP = RELATIVE HIGH POINT
CL = CENTERLINE OF DRIVE
OC = OUTLET CONTROL
FES = FLARED END SECTION

1. ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM UNION COUNTY.
2. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY THE CITY OF MONROE EROSION CONTROL SPECIALIST.
3. SLOPES SHALL BE MAINTAINED NO STEEPER THAN 2:1.
4. THE DEVELOPER SHALL OBTAIN AN APPROVED ENCROACHMENT AGREEMENT PRIOR TO BEGINNING WORK WITHIN AN NCDOT RIGHT-OF-WAY FOR ALL UTILITIES, SIDEWALK AND STORM DRAINAGE IMPROVEMENTS.
5. THE CONTRACTOR SHALL SECURE A PERMIT FOR GRADING, STAGING OR STOCKPILING MATERIALS; HOWEVER, IF ANY EXCESS SOIL IS HAULED OFFSITE IT MUST BE TO OR FROM AN APPROVED PERMITTED SITE.
6. ALL EROSION CONTROL DESIGNS SHALL BE IN ACCORDANCE WITH THE NCDEN EROSION AND SEDIMENTATION CONTROL PLANNING AND DESIGN MANUAL, LATEST EDITION, UNLESS STATED BY THE CITY OF MONROE STANDARD SPECIFICATIONS AND DETAIL MANUAL.
7. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE CITY OF MONROE EROSION CONTROL SPECIALIST, SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.

8. THE CONTRACTOR SHALL MAINTAIN EACH STREAM, CREEK OR CHANNEL IN AN UNOBSTRUCTED CONDITION AND SHALL REMOVE FROM THESE AREAS A DEBRIS, LOGS, TIMBER, TRASH, JUNK AND OTHER ACCUMULATIONS.
9. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS VIOLATION OF CITY OF MONROE EROSION AND SEDIMENTATION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
10. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE NC SEDIMENTATION EROSION AND SEDIMENTATION CONTROL LAWS AND IS SUBJECT TO SEVERE FINES.
11. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING MORE THAN 12,000 SF OF LAND FOR COMMERCIAL, INDUSTRIAL OR SUBDIVISION DEVELOPMENT.
12. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL SELF-INSPECT REPORTS.
13. THE CITY OF MONROE EROSION CONTROL SPECIALIST WILL PERFORM PERI

- OPERATIONS. NO LAND DISTURBING ACTIVITY, EXCEPT THAT WHICH IS REQUIRED TO INSTALL EROSION CONTROL MEASURES, MAY COMMENCE PRIOR TO APPROVAL OF CERTIFICATION FORM 1-01 BY THE ENGINEERING DIRECTOR.
2. ANY FAILURE TO MAINTAIN EROSION CONTROL MEASURES WILL RESULT IN APPROPRIATE ENFORCEMENT ACTIONS IN ACCORDANCE WITH THE CITY OF MONROE EROSION AND SEDIMENTATION CONTROL ORDINANCE, THE NORTH CAROLINA SEDIMENTATION POLLUTION CONTROL ACT OF 1973 (NCGS CHAPTER 113A, ARTICLE 4), AND THE NORTH CAROLINA ADMINISTRATIVE CODE TITLE 15A, DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES CHAPTER 4.
3. IF FAILURES TO MAINTAIN EROSION CONTROL MEASURES ARE NOT CORRECTED, THE CITY OF MONROE WILL INITIATE ENFORCEMENT ACTION AS AUTHORIZED BY THE CITY CODE OF ORDINANCES.
4. ANY EXISTING STREETS THAT ARE AFFECTED BY MUD, DEBRIS, OR SEDIMENT SHALL BE CLEANED WITHIN 24 HOURS OF NOTICE. IF THE STREETS ARE NOT CLEANED WITHIN 24 HOURS OF NOTICE, THE CITY WILL INITIATE CORRECTIONS AND BILL THE DEVELOPER IN THE AMOUNT OF CURRENT POLICES FOR A NEW SUBDIVISION. THE CITY OF MONROE SHALL NOT ACCEPT THE RIGHT-OF-WAY FOR MAINTENANCE UNTIL ALL OUTSTANDING BILLS ARE PAID IN FULL.

TEMPORARY SILT FENCE SEE DETAIL 1/C9.2.

TEMPORARY STABILIZED CONSTRUCTION EROSION CONTROL SEE DETAIL 2/C9.2.

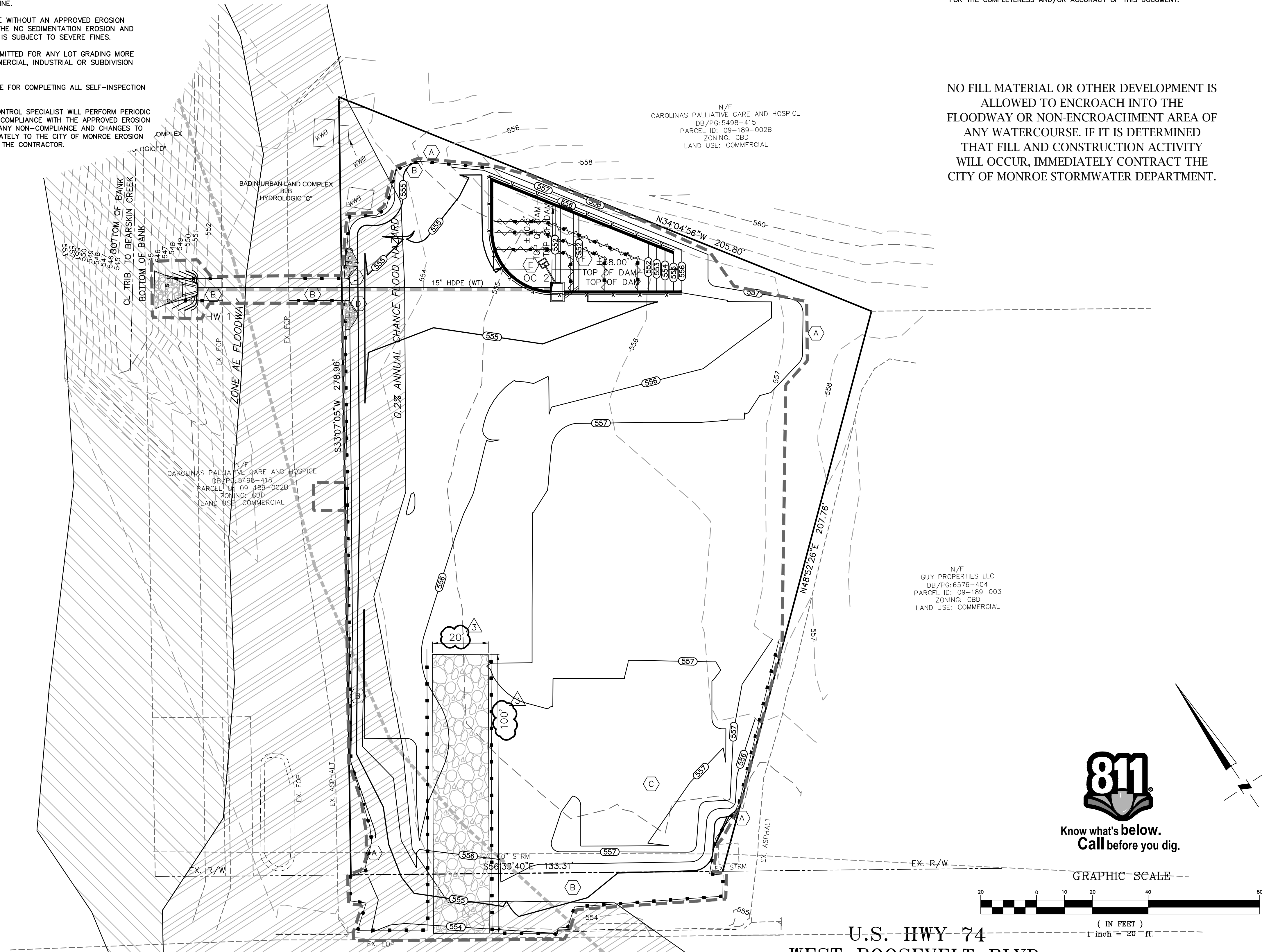
INSTALL TEMPORARY SILT FENCE STONE OUTLET SEE DETAIL 3/C9.2.

SEE RISER CONTROL STRUCTURE (OC 2) DETAIL FOR CONSTRUCTION DETAILS. CONTRACTOR SHALL PROVIDE SKIMMER TO PROPOSED 6" UNDERDRAIN CONNECTION SEE DETAIL 549.57.

TEMPORARY SKIMMER SEDIMENT BASIN (TSS) SEE DETAIL 2-3/C9.4. ALL TSSB SHALL CONFORM TO DETAIL 1/C9.4.

- EXPOSED SLOPES SHALL BE APPLIED WITHIN 14 WORKING DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE APPLIED WITHIN 15 WORKING DAYS OR 60 CALENDAR DAYS, WHICHEVER IS SOONER. SLOPES LEFT EXPOSED WILL, WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GRASS COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
2. NO LAND DISTURBING ACTIVITY, EXCEPT THAT WHICH IS REQUIRED TO INSTALL EROSION CONTROL MEASURES, MAY COMMENCE PRIOR TO APPROVAL BY THE ENGINEERING DIRECTOR OF CERTIFICATION FORM 1-01.
3. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BASED UPON SPECIFIC SITE CONDITIONS.
4. CONTACT THE CITY OF MONROE ENGINEERING DEPARTMENT, AT 704-282-4515, FOR A PRECONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBING ACTIVITY.
5. CONTRACTOR IS TO KEEP STREET CLEAR OF MUD AND OTHER DEBRIS PER THE CITY OF MONROE MUD ORDINANCE, TITLE VII, PARAGRAPH 71.20.
6. THE PROFESSIONAL ENGINEER REGISTERED WITH THE STATE OF NORTH CAROLINA WHO PREPARED THE EROSION CONTROL PLAN IS SOLELY RESPONSIBLE FOR IDENTIFICATION AND LOCATION OF ALL ENVIRONMENTAL WETLANDS, PERENNIAL AND INTERMITTENT STREAMS AND BUFFERS SHOWN ON THE PLANS.
7. THE CITY OF MONROE IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND ELEVATIONS, WHICH SHALL BE OBTAINED AND CORRELATED AT THE JOB SITE. THE CITY OF MONROE, THROUGH THE APPROVAL OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

NO FILL MATERIAL OR OTHER DEVELOPMENT IS ALLOWED TO ENCROACH INTO THE FLOODWAY OR NON-ENCROACHMENT AREA OF ANY WATERCOURSE. IF IT IS DETERMINED THAT FILL AND CONSTRUCTION ACTIVITY WILL OCCUR, IMMEDIATELY CONTRACT THE CITY OF MONROE STORMWATER DEPARTMENT.



Mc²
ENGINEERING

Mc² ENGINEERING, INC.
2110 BEN DRAIE DR., STE. 400
CHARLOTTE, NC 28262
PHONE 704.510.9797

The image shows two circular professional engineer stamps from the State of North Carolina. The top stamp is for Jeffrey D. Niccolis, License No. 28606, with a signature and the date 2/21/23. The bottom stamp is for M2 Engineering, Inc., License No. C-2630, and is blank.

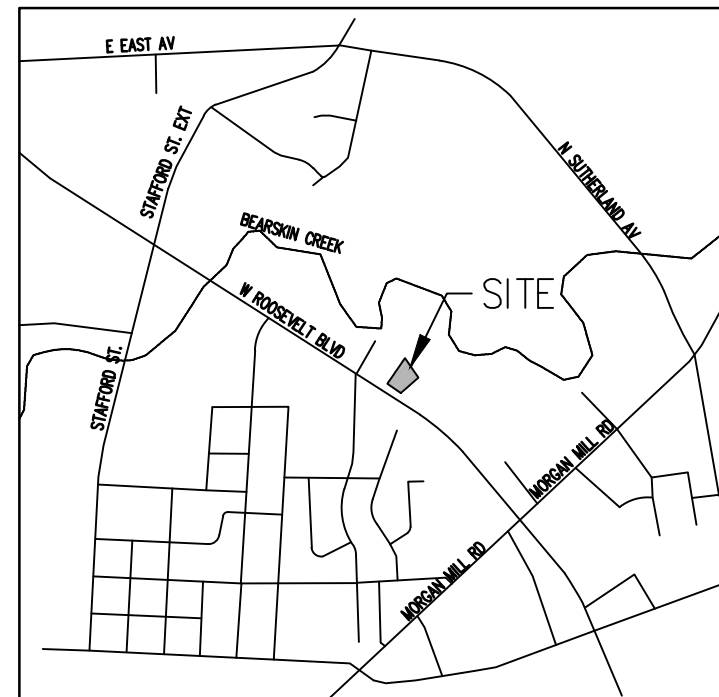
AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

EROSION
CONTROL
PLAN - PHASE 1

[illegible]

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2022

C3.0

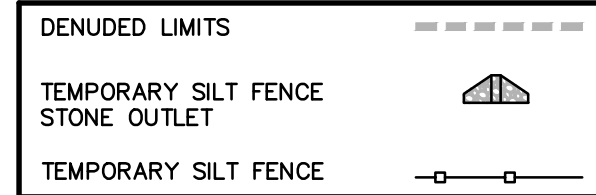


LOCATION MAP
NTS

DISTURBED ACREAGE:
±0.93 AC (40,298 SF)

SOIL TYPE:
BuB - Badin Urban Land Complex
CnB - CID Urban Land Complex

SOIL LEGEND



CITY OF MONROE SCHEDULING NOTES:

- TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE PROVIDED FOR ALL LAND DISTURBING WORK IN ACCORDANCE WITH AN EROSION CONTROL PLAN REVIEWED AND APPROVED BY THE CITY OF MONROE ENGINEERING DEPARTMENT.
- A GRADING PERMIT SHALL BE OBTAINED FROM THE CITY OF MONROE ENGINEERING DEPARTMENT PRIOR TO BEGINNING SITE WORK.
- EROSION CONTROL MEASURES SHALL BE INSTALLED BY THE DEVELOPER AND INSPECTED BY THE CITY OF MONROE ENGINEERING DEPARTMENT FOR COMPLIANCE PRIOR TO ANY LAND DISTURBING ACTIVITY.
- ALL PERMANENT EROSION CONTROL MEASURES SHALL BE INCORPORATED INTO THE WORK AT THE EARLIEST PRACTICAL TIME.
- ALL TEMPORARY MEASURES SHALL BE MAINTAINED UNTIL THE PERMANENT MEASURES HAVE TAKEN EFFECT OR ARE APPROVED FOR REMOVAL BY THE CITY OF MONROE ENGINEERING DEPARTMENT.
- TEMPORARY AND PERMANENT MEASURES SHALL BE COORDINATED TO PROVIDE EFFECTIVE AND CONTINUOUS EROSION CONTROL THROUGHOUT THE CONSTRUCTION AND POST-CONSTRUCTION PERIOD TO MINIMIZE SILTATION OF STREAMS, LAKES, RESERVOIRS, AND OTHER IMPOUNDMENTS, GROUND SURFACES, AND OTHER PROPERTY.
- TEMPORARY MEASURES SHALL REMAIN IN PLACE UNTIL THE ENGINEERING DIRECTOR APPROVES CERTIFICATION FORM 1-06 FINAL EROSION CONTROL ACCEPTANCE FORM.

CITY OF MONROE CONSTRUCTION SEQUENCE NOTES:

- OBTAIN APPROVAL LETTER FOR EROSION CONTROL AND SCHEDULE PRE-CONSTRUCTION MEETING ON-SITE WITH THE CITY OF MONROE ENGINEERING DEPARTMENT EROSION CONTROL SPECIALIST. ALL APPROVED PLANS AND REQUIRED PERMITS WILL BE ISSUED AT THE MEETING PRIOR TO ANY LAND DISTURBING ACTIVITY.
- INSTALL ALL EROSION CONTROL MEASURES AS SHOWN ON APPROVED PLAN.
- SUBMIT CERTIFICATION FORM 1-01, PRIMARY EROSION CONTROL INSPECTION FORM, TO THE EROSION CONTROL SPECIALIST DURING THE INSPECTION OF INSTALLED EROSION CONTROL MEASURES.
- PROCEED WITH GRADING.
- SEED AND MULCH DENUDED AREA IMMEDIATELY AFTER FINISHED GRADES ARE ESTABLISHED.
- MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL A PERMANENT GROUND COVER IS ESTABLISHED.
- ADDITIONAL MEASURES MAY BE REQUIRED BASED UPON ACTUAL SITE CONDITIONS.
- SUBMIT CERTIFICATION FORM 1-06, FINAL EROSION CONTROL ACCEPTANCE FORM, TO THE EROSION CONTROL SPECIALIST TO SCHEDULE A FINAL ON-SITE INSPECTION.
- REMOVE SOIL EROSION CONTROL MEASURES AND STABILIZE THESE AREAS UPON APPROVAL OF CERTIFICATION FORM 1-06.
- SUBMIT CERTIFICATION FORM 1-07 WHEN THERE IS AN INTERMEDIARY REMOVAL OF EROSION CONTROL MEASURES.

BC = BACK OF CURB
TS = TOP OF SIDEWALK
HC = HANDICAP
BW = BOTTOM OF WALL
EP = EDGE OF PAVEMENT
HP = RELATIVE HIGH POINT
CL = CENTERLINE OF DRIVE
OC = OUTLET CONTROL
FES = FLARED END SECTION

ABBREVIATION LEGEND

EROSION CONTROL NOTES:

- ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM UNION COUNTY.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY THE CITY OF MONROE EROSION CONTROL SPECIALIST.
- SLOPES SHALL BE GRADED NO STEEPER THAN 2:1.
- THE DEVELOPER SHALL OBTAIN AN APPROVED ENCROACHMENT AGREEMENT PRIOR TO BEGINNING WORK WITHIN AN NCDOT RIGHT-OF-WAY FOR ALL UTILITY, SIDEWALK AND STORM DRAINAGE IMPROVEMENTS.
- THE CONTRACTOR SHALL SECURE A PERMIT FOR GRADING, STAGING OR STOCKPILING MATERIALS; HOWEVER, IF ANY EXCESS SOIL IS HAULED OFFSITE OR IMPORTED IT MUST BE TO OR FROM AN APPROVED PERMITTED SITE.
- ALL EROSION CONTROL DESIGNS SHALL BE IN ACCORDANCE WITH THE NCDENR EROSION AND SEDIMENTATION CONTROL PLANNING AND DESIGN MANUAL LATEST EDITION, UNLESS STATED BY THE CITY OF MONROE STANDARD SPECIFICATIONS AND DETAIL MANUAL.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE CITY OF MONROE EROSION CONTROL SPECIALIST, SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN EACH STREAM, CREEK OR CHANNEL IN AN UNOBSTRUCTED CONDITION AND SHALL REMOVE FROM THESE AREAS ALL DEBRIS, LOGS, TIMBER, TRASH, JUNK AND OTHER ACCUMULATIONS.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF CITY OF MONROE EROSION AND SEDIMENTATION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE NC SEDIMENTATION EROSION AND SEDIMENTATION CONTROL LAWS AND IS SUBJECT TO SEVERE FINES.
- A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING MORE THAN 12,000 SF OF LAND FOR COMMERCIAL, INDUSTRIAL OR SUBDIVISION DEVELOPMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL SELF-INSPECTION REPORTS.
- THE CITY OF MONROE EROSION CONTROL SPECIALIST WILL PERFORM PERIODIC INSPECTIONS OF THE SITE TO INSURE COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. ANY NON-COMPLIANCE AND CHANGES TO THE SITE SHALL BE REPORTED IMMEDIATELY TO THE CITY OF MONROE EROSION CONTROL SPECIALIST FOR REMEDY BY THE CONTRACTOR.

CITY OF MONROE CONSTRUCTION NOTES:

- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CLEARING OPERATIONS. NO LAND DISTURBING ACTIVITY, EXCEPT THAT WHICH IS REQUIRED TO INSTALL EROSION CONTROL MEASURES, MAY COMMENCE PRIOR TO APPROVAL OF CERTIFICATION FORM 1-01 BY THE ENGINEERING DIRECTOR.
- ANY FAILURE TO MAINTAIN EROSION CONTROL MEASURES WILL RESULT IN APPROPRIATE ENFORCEMENT ACTIONS IN ACCORDANCE WITH THE CITY OF MONROE EROSION AND SEDIMENTATION CONTROL ORDINANCE, THE NORTH CAROLINA SEDIMENTATION POLLUTION CONTROL ACT OF 1973 (NCGS CHAPTER 113A, ARTICLE 4), AND THE NORTH CAROLINA ADMINISTRATIVE CODE TITLE 15A, DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES CHAPTER 4.
- IF FAILURES TO MAINTAIN EROSION CONTROL MEASURES ARE NOT CORRECTED, THE CITY OF MONROE WILL INITIATE ENFORCEMENT ACTION AS AUTHORIZED BY THE CITY CODE OF ORDINANCES.
- ANY EXISTING STREETS THAT ARE AFFECTED BY MUD, DEBRIS, OR SEDIMENT SHALL BE CLEANED WITHIN 24 HOURS OF NOTICE. IF THE STREETS ARE NOT CLEANED WITHIN 24 HOURS OF NOTICE, THE CITY WILL INITIATE CLEANING AND BILL THE DEVELOPER IN THE AMOUNT OF CURRENT POLICIES. FOR A NEW SUBDIVISION, THE CITY OF MONROE SHALL NOT ACCEPT THE RIGHT-OF-WAY FOR MAINTENANCE UNTIL ALL OUTSTANDING BILLS ARE PAID IN FULL.

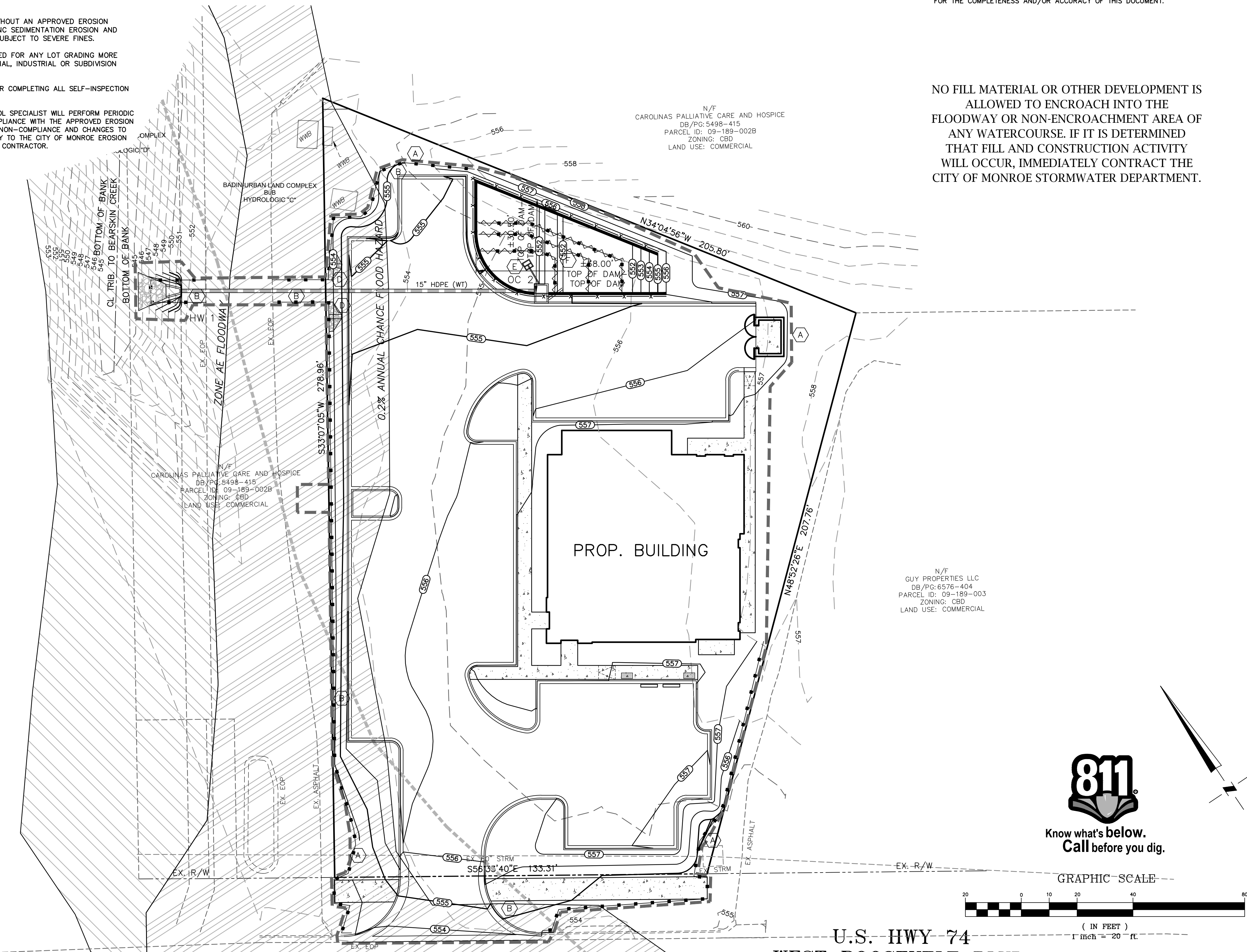
KEY NOTES:

- DENUDED LIMITS.
- TEMPORARY SILT FENCE SEE DETAIL 1/C9.2.
- TEMPORARY STABILIZED CONSTRUCTION ENTRANCE SEE DETAIL 2/C9.2.
- INSTALL TEMPORARY SILT FENCE STONE OUTLET. SEE DETAIL 3/C9.2.
- SEE RISER CONTROL STRUCTURE (OC 2) DETAIL 6/C9.2 FOR CONSTRUCTION DETAILS. CONTRACTOR SHALL CONNECT SKIMMER TO PROPOSED 6" UNDERDRAIN CONNECTION AT 549.57.
- TEMPORARY SKIMMER SEDIMENT BASIN (TSSB #1) SEE DETAILS 2-3/C9.4. ALL TSSB SHALL CONTAIN BAFFLES PER DETAIL 1/C9.4.

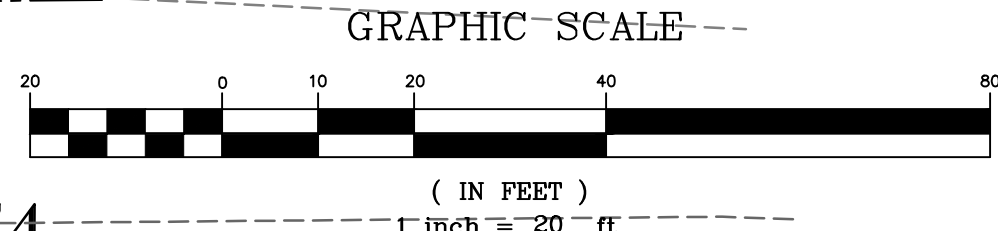
CITY OF MONROE EROSION CONTROL NOTES:

- IF DISTURBING LESS THAN 1 ACRE, ADD THIS NOTE: GROUND COVER ON EXPOSED SLOPES SHALL BE APPLIED WITHIN 14 WORKING DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE APPLIED WITHIN 15 WORKING DAYS OR 60 CALENDAR DAYS, WHICHEVER IS SOONER. 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.
- NO LAND DISTURBING ACTIVITY, EXCEPT THAT WHICH IS REQUIRED TO INSTALL EROSION CONTROL MEASURES, MAY COMMENCE PRIOR TO APPROVAL BY THE ENGINEERING DIRECTOR OF CERTIFICATION FORM 1-01.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BASED UPON SPECIFIC SITE CONDITIONS.
- CONTACT THE CITY OF MONROE ENGINEERING DEPARTMENT, AT 704-282-4515, FOR A PRECONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBING ACTIVITY.
- CONTRACTOR IS TO KEEP STREET CLEAR OF MUD AND OTHER DEBRIS PER THE CITY OF MONROE MUD ORDINANCE, TITLE VII, PARAGRAPH 71.20.
- THE PROFESSIONAL ENGINEER REGISTERED WITH THE STATE OF NORTH CAROLINA WHO PREPARED THE EROSION CONTROL PLAN IS SOLELY RESPONSIBLE FOR IDENTIFICATION AND LOCATION OF ALL ENVIRONMENTAL WETLANDS, PERENNIAL AND INTERMITTENT STREAMS AND BUFFERS SHOWN ON THE PLANS.
- THE CITY OF MONROE IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND ELEVATIONS, WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF MONROE, THROUGH THE APPROVAL OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

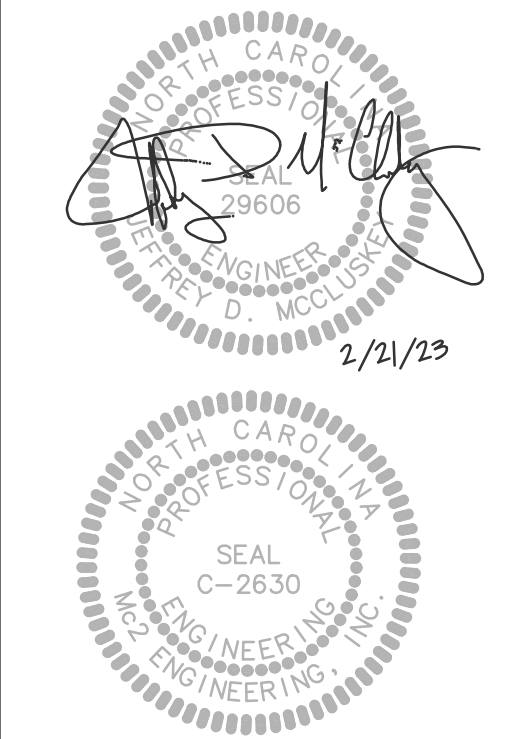
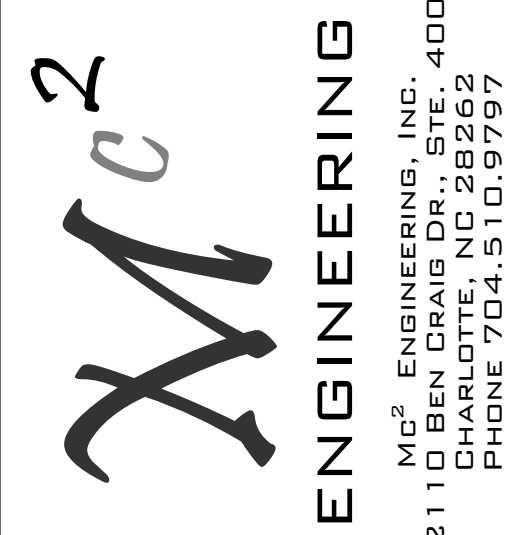
NO FILL MATERIAL OR OTHER DEVELOPMENT IS ALLOWED TO ENCROACH INTO THE FLOODWAY OR NON-ENCROACHMENT AREA OF ANY WATERCOURSE. IF IT IS DETERMINED THAT FILL AND CONSTRUCTION ACTIVITY WILL OCCUR, IMMEDIATELY CONTRACT THE CITY OF MONROE STORMWATER DEPARTMENT.



Know what's below.
Call before you dig.



U.S. HWY 74



THE DESIGN AND DRAWINGS SHOWN ARE THE PROPERTY OF MC2 ENGINEERING, INC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY MC2 ENGINEERING, INC. IS PROHIBITED. 2021 ©

AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

EROSION CONTROL PLAN - PHASE 2

REVISIONS		
3	2/6/23	VARIOUS COMMENTS
4	2/21/23	MONROE STORMWATER

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2022

C3.1

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 (H2O) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	- 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 - 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones - 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	- 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones - 10 days for Falls Lake Watershed unless there is zero slope

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none">Temporary grass seed covered with straw or other mulches and tackifiersHydroseedingRollled erosion control products with or without temporary grass seedAppropriately applied straw or other mulchPlastic sheeting	<ul style="list-style-type: none">Permanent grass seed covered with straw or other mulches and tackifiersGeotextile fabrics such as permanent soil reinforcement mattingHydroseedingShrubs or other permanent plantings covered with mulchUniform and evenly distributed ground cover sufficient to restrain erosionStructural methods such as concrete, asphalt or retaining wallsRollled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

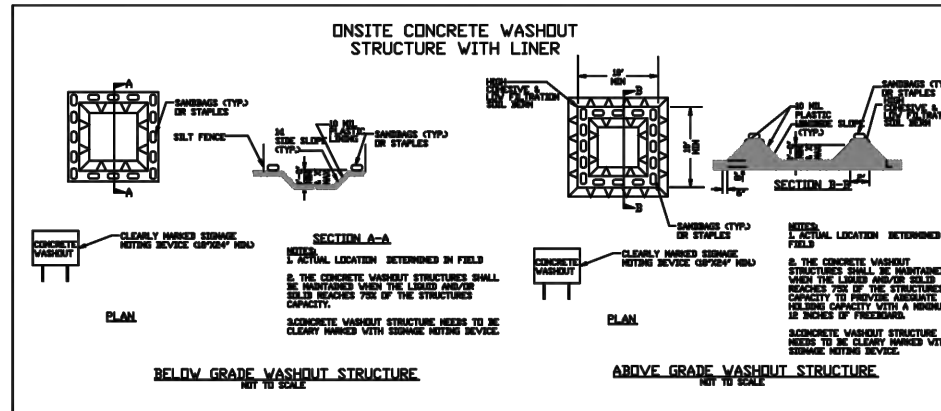
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

**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 rate measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measures. 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	1. Identification of the perimeter E&SC measures. 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.
(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	1. Identification of the stream or wetland. 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.
(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 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. 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:

- 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.
- 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.
- 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.
- 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.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Permit 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

**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:

- This General Permit as well as the Certificate of Coverage, after it is received.

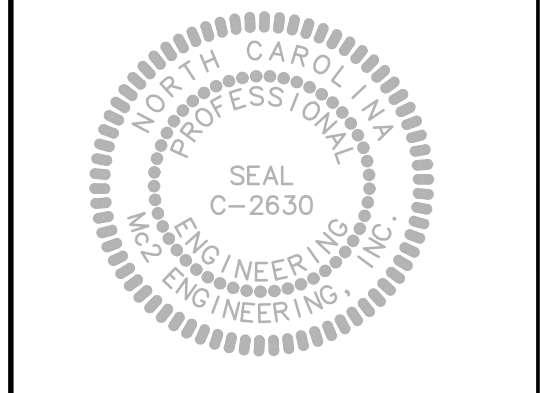
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required 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-NOL 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]

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none">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 3(b)-(c) above	<ul style="list-style-type: none">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)]	<ul style="list-style-type: none">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)]	<ul style="list-style-type: none">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 the permit [40 CFR 122.41(k)(7)]	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the noncompliance, and its cause, and the permittee's plan to correct the 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 recurrence of the noncompliance. [40 CFR 122.41(k)(6)].Division staff may waive the requirement for a written report on a case-by-case basis.



MC² ENGINEERING
MC² ENGINEERING, INC.
2110 BEN CRAIG DR., STE. 400
CHARLOTTE, NC 28262
PHONE 704.510.9797



THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF MC² ENGINEERING, INC. NO REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY MC² ENGINEERING, INC. IS PROHIBITED. 2021 ©

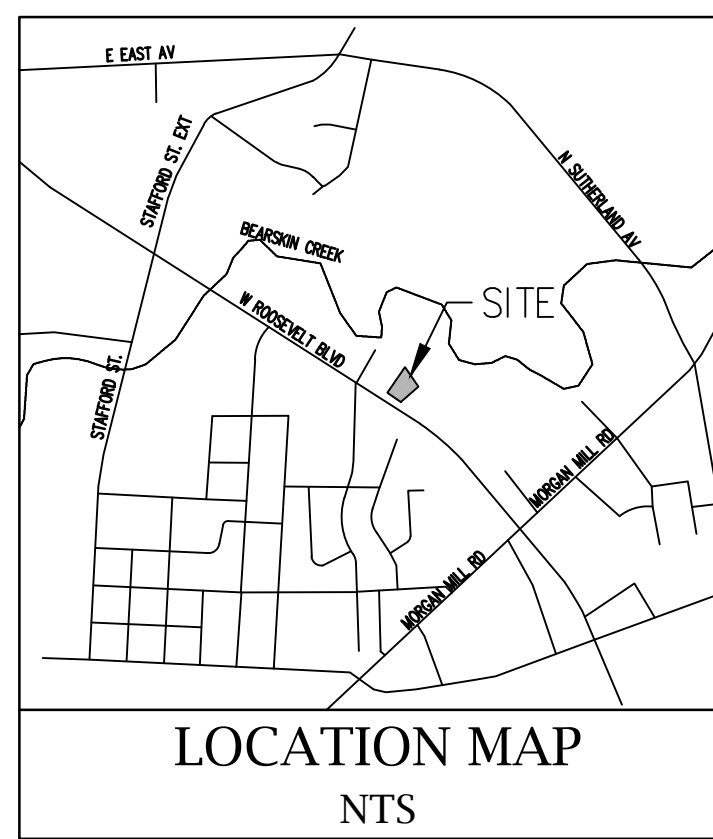
**AY CARAMBA
FAMILY RESTAURANT**
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

**EROSION
CONTROL -
NCG01 SHEET**

REVISIONS		
	DATE	COMMENTS
3	2/6/23	VARIOUS COMMENTS

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2022

C3.2



DISTURBED ACREAGE:
±0.93 AC (40,298 SF)

SOIL TYPE:
BuB - Badin Urban Land Comple
CnB - CID Urban LAnd Complex

SOIL LEGEND

BC = BACK OF CURB
TS = TOP OF SIDEWALK
HC = HANDICAP
BW = BOTTOM OF WALL
EP = EDGE OF PAVEMENT
HP = RELATIVE HIGH POINT
CL = CENTERLINE OF DRIVE
OC = OUTLET CONTROL
FES = FLARED END SECTION

ABBREVIATION LEGEND

GRADING NOTES

1. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL GRADED AREAS, INCLUDING PAVING, LAWN AND LANDSCAPE AREAS.

2. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITION AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK, BOTH PUBLIC AND PRIVATE. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS CONTRACT.

3. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.

4. THE PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN DRIVES, PARKING LOTS, AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT.

5. PIPE LENGTHS SHOWN ARE THE ENGINEER'S ESTIMATE USED TO COMPUTE PIPE SLOPES AND INVERTS AND SHALL NOT BE CONSTRUED BY THE CONTRACTOR TO REPRESENT THE ACTUAL QUANTITY OF PIPE REQUIRED.

6. NO DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING, ETC., SHALL BE ALLOWED IN TREE PROTECTION ZONES. NO ON-SITE BURIAL WILL BE ALLOWED.

HDPE PIPE INSTALLATION NOTES

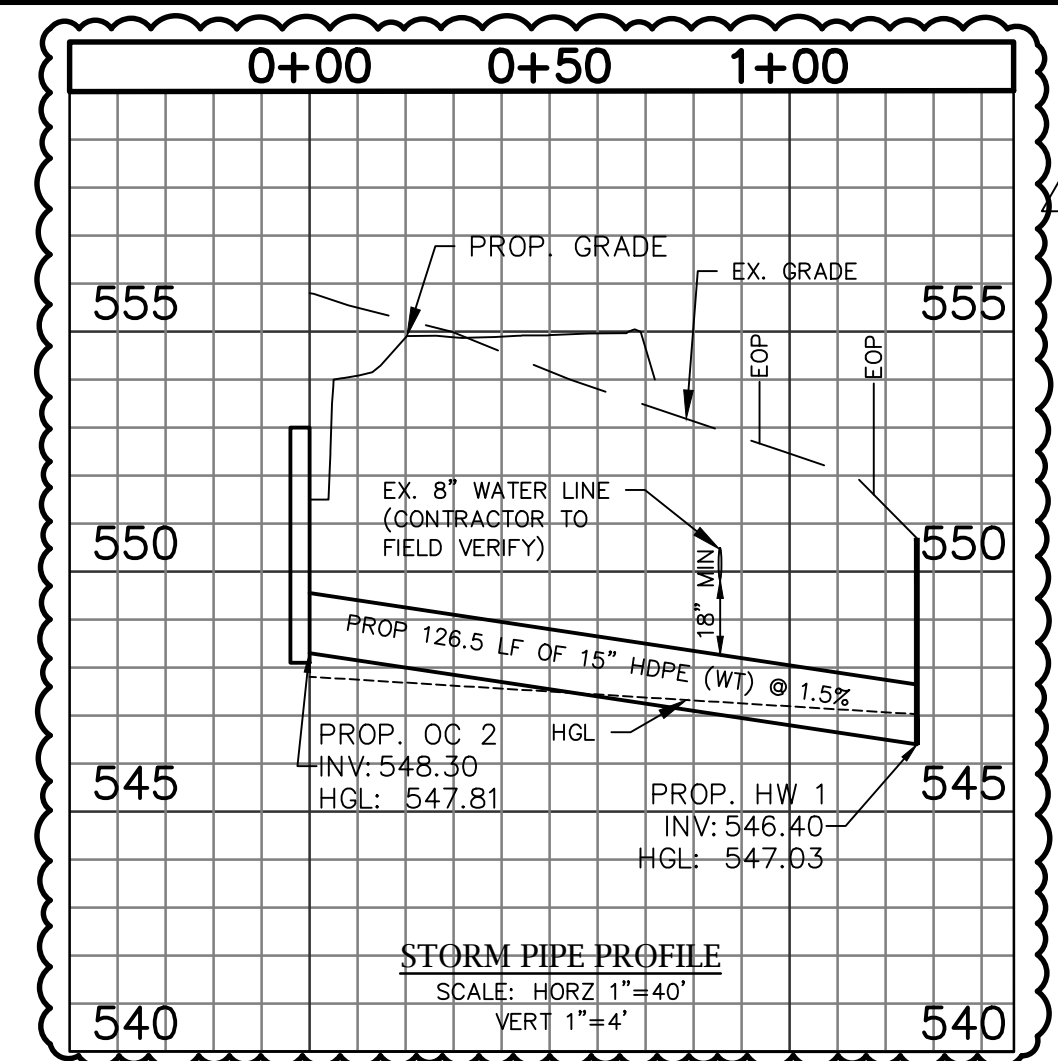
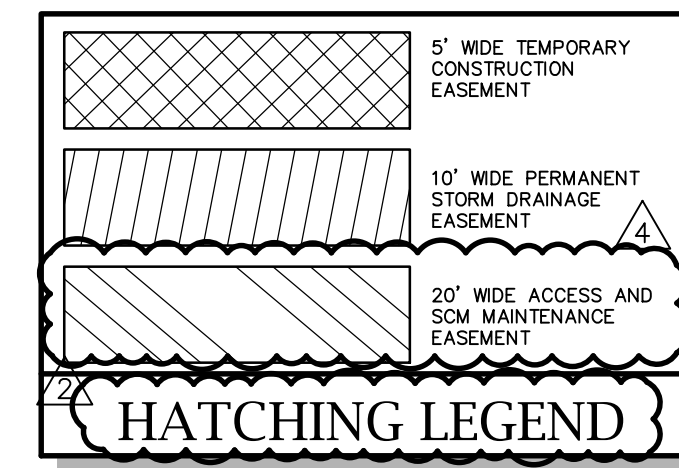
1. THE PRODUCT USED SHALL BE CORRUGATED EXTERIOR/SMOOTH INTERIOR PIPE (TYPE S), CONFORMING TO THE REQUIREMENTS OF AASHTO SPECIFICATION M294 (LATEST EDITION) FOR CORRUGATED POLYETHYLENE PIPE.

2. BELL AND SPIGOT JOINTS SHALL BE REQUIRED ON ALL PIPE INSIDE THE RIGHT-OF-WAY. BELL SHALL COVER AT LEAST TWO FULL CURRIGATIONS ON EACH SECTION OF PIPE. THE BELL AND SPIGOT JOINT SHALL HAVE AN "O"-RING RUBBER GASKET MEETING ASTM F477 WITH THE GASKET FACTORY INSTALLED, PLACED ON THE SPIGOT END OF THE PIPE. ALL JOINTS SHALL MEET OR EXCEED THE SOIL TIGHTNESS REQUIREMENT OF AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, SECTION 23, PARAGRAPH 23.5.4(E). PIPE JOINTS SHALL ALSO MEET ALL REQUIREMENTS OF AASHTO M294.

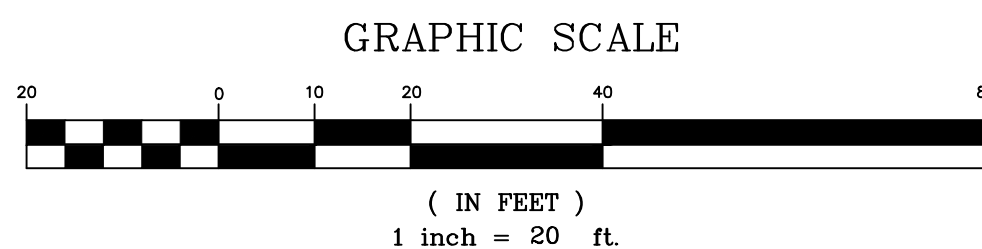
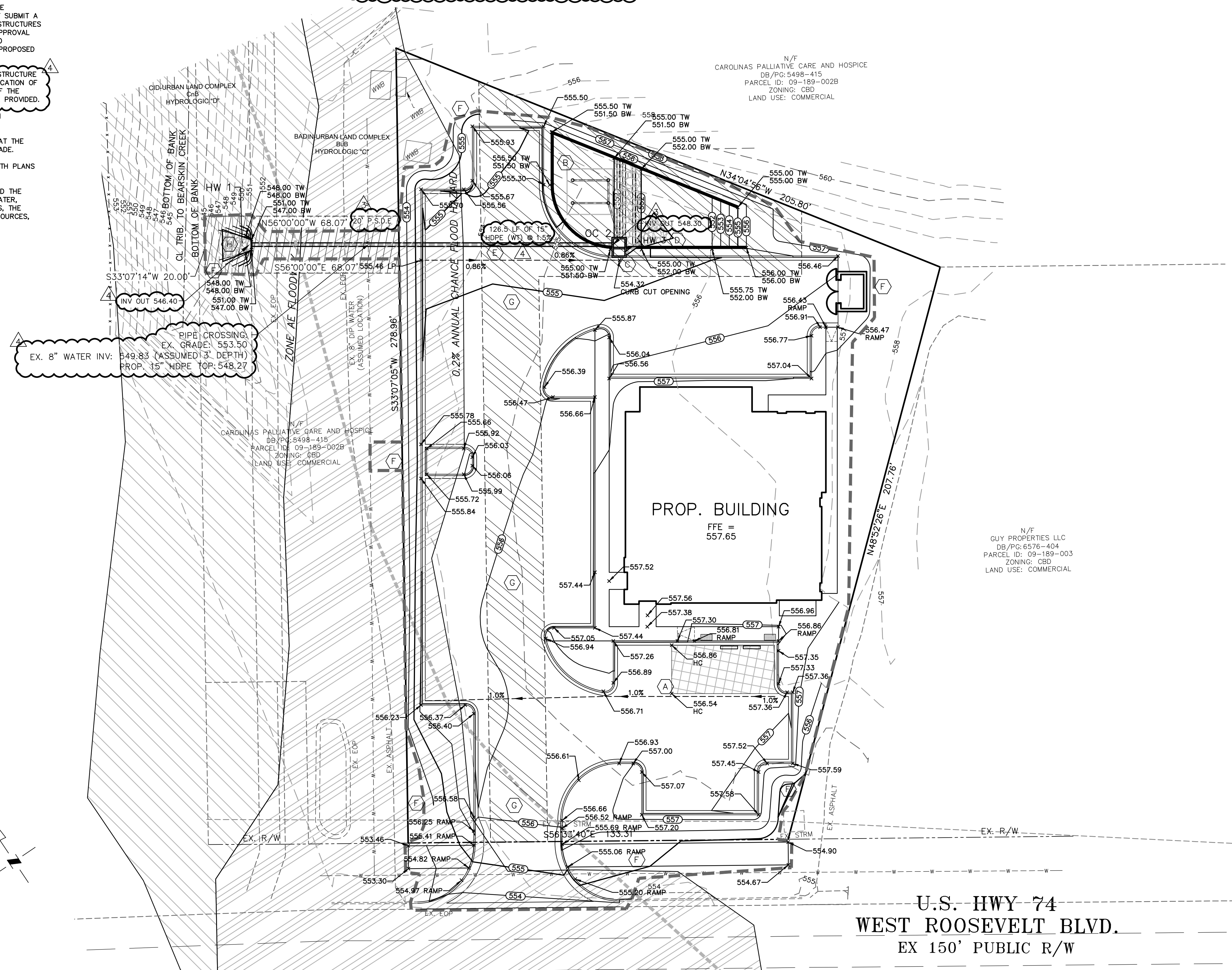
3. BACKFILL MATERIAL USED TO INSTALL RCP PIPE WITHIN THE STREET RIGHT-OF-WAY SHALL BE SELECT MATERIAL CLASS II-IV, AS DEFINED BY SECTION 1016-3 OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. UPON SUBMITTAL OF WRITTEN CERTIFICATION OF MATERIAL SUITABILITY BY A LICENSED GEOTECHNICAL ENGINEER, NCDOT CLASS I SELECT MATERIAL MAY BE USED. ALL BACKFILL MATERIAL SHALL BE APPROVED BY THE CITY INSPECTOR PRIOR TO PLACEMENT OF THE MATERIAL WITHIN THE STREET RIGHT-OF-WAY.

4. THE MINIMUM LENGTH OF HDPE PIPE PERMITTED FOR USE SHALL BE FOUR (4) FEET. HDPE FLARED END SECTIONS ARE NOT PERMITTED.

5. ALL HDPE PIPE INSTALLED SHALL BE THIRD PARTY CERTIFIED AND SHALL BEAR THE PLASTIC PIPE INSTITUTE'S (PPI) CERTIFICATION STICKER.



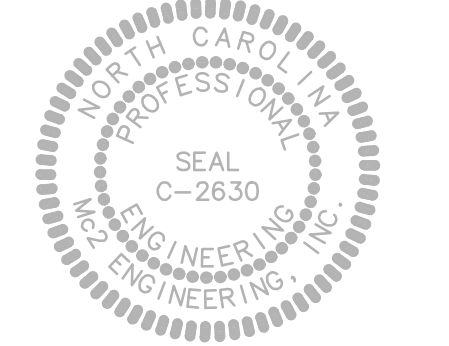
- KEY NOTES:**
- (A) HANDICAP PARKING AREA (SHADED AREA) SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0% FROM PARKING SPACES TO ADJACENT SIDEWALK.
 - (B) PROPOSED SAND FILTER SEE DETAILS ON SHEET C4.1.
 - (C) OUTLET CONTROL SPLITTER BOX SEE DETAIL 6/C9.2.
 - (D) RIP RAP APRON AT PIPE OUTLETS SEE DETAIL 4/C9.2.
 - (E) PROPOSED 126.50 LF OF 15" HDPE (WT) PIPE INSTALLED AT 1.0%.
 - (F) DENUDED LIMITS.
 - (G) 20' SCM ACCESS AND MAINTENANCE EASEMENT PROVIDED.
 - (H) PROPOSED CONCRETE ENDWALL (NCDOT 838.80) PER DETAIL 4/C9.3. AND RIP RAP OUTLET PROTECTION SEE DETAIL 4/C9.2.



Know what's **below**.
Call before you dig.



2/21/23



THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF
Mc2 ENGINEERING, INC. REPRODUCTION OR USE FOR ANY
PURPOSE OTHER THAN THAT AUTHORIZED BY Mc2
ENGINEERING, INC. IS PROHIBITED. 2021 ©

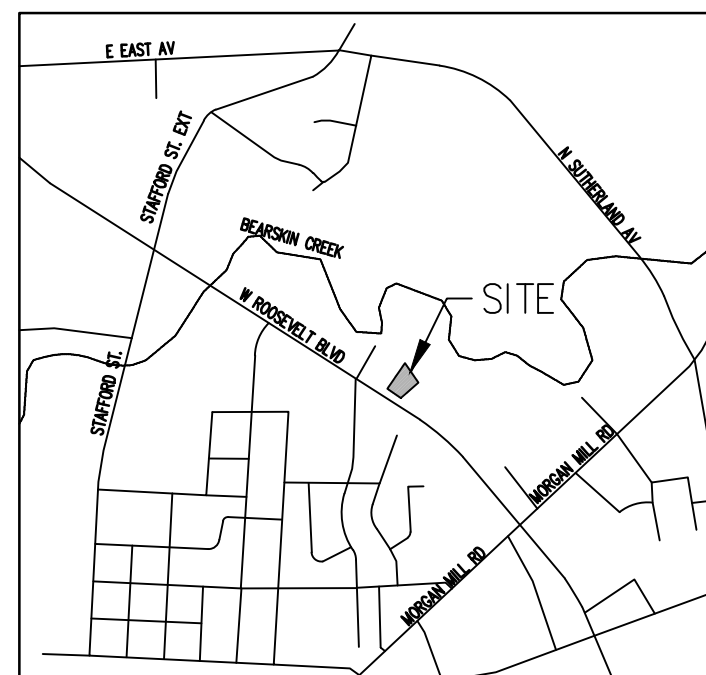
AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

GRADING PLAN

[illegible]

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2022

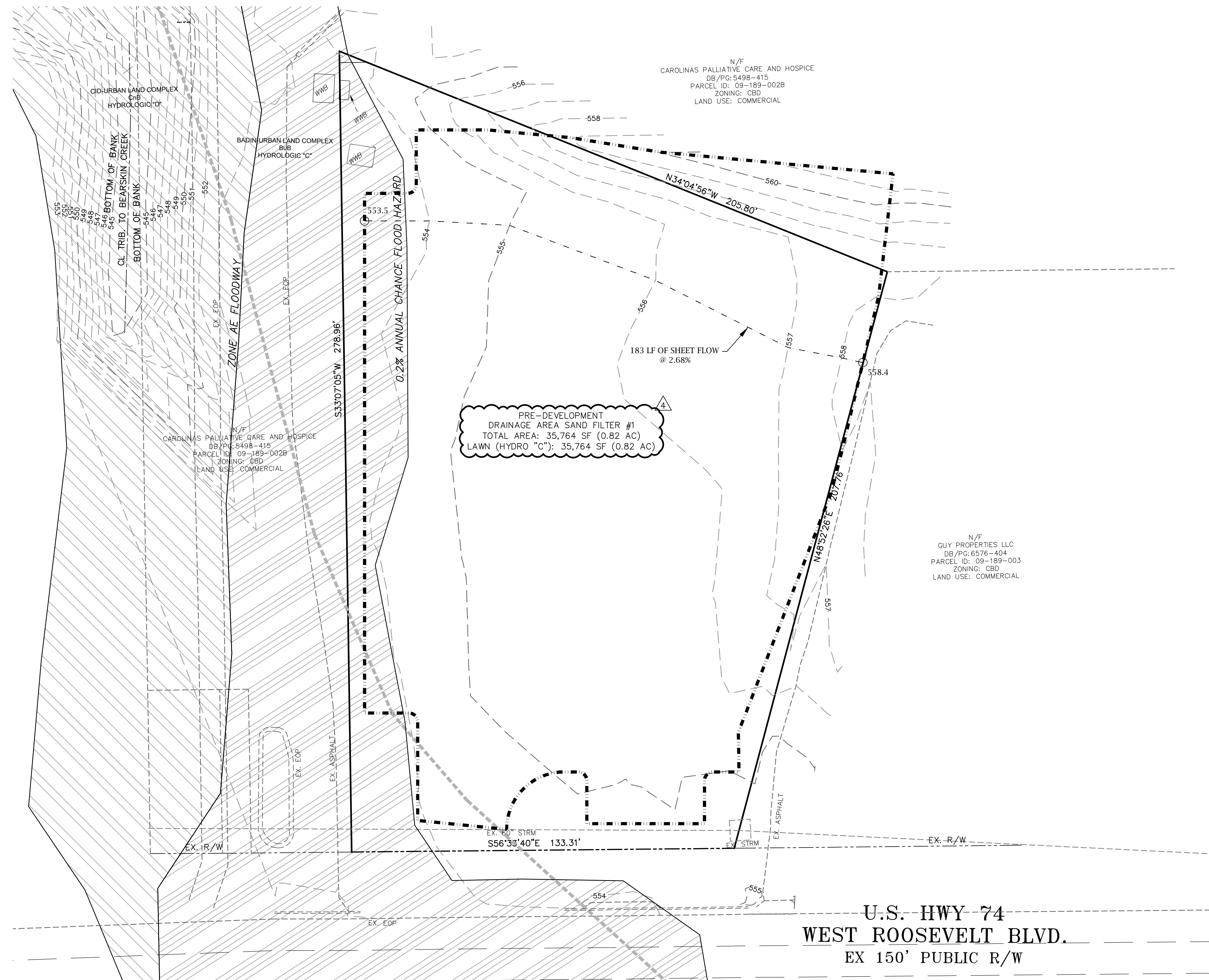
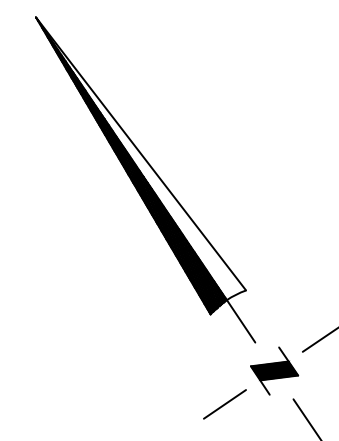
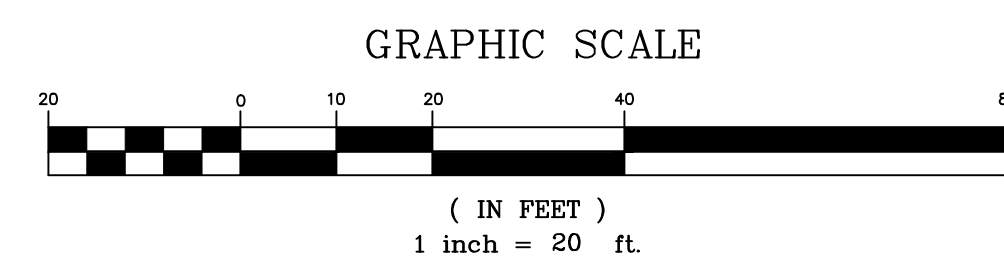
C4.0



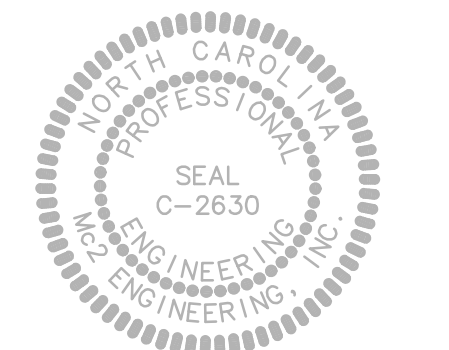
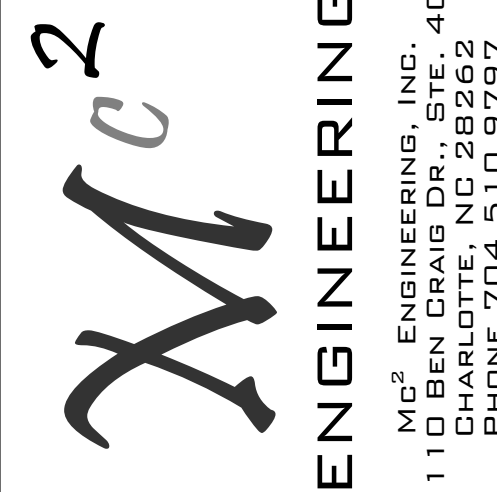
LOCATION MAPS



Know what's **below**.
Call before you dig.



U.S. HWY 74
WEST ROOSEVELT BLVD.
EX 150' PUBLIC R/W



THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF
Mc2 ENGINEERING, INC. REPRODUCTION OR USE FOR ANY
PURPOSE OTHER THAN THAT AUTHORIZED BY Mc2
ENGINEERING, INC. IS PROHIBITED. 2021 ©

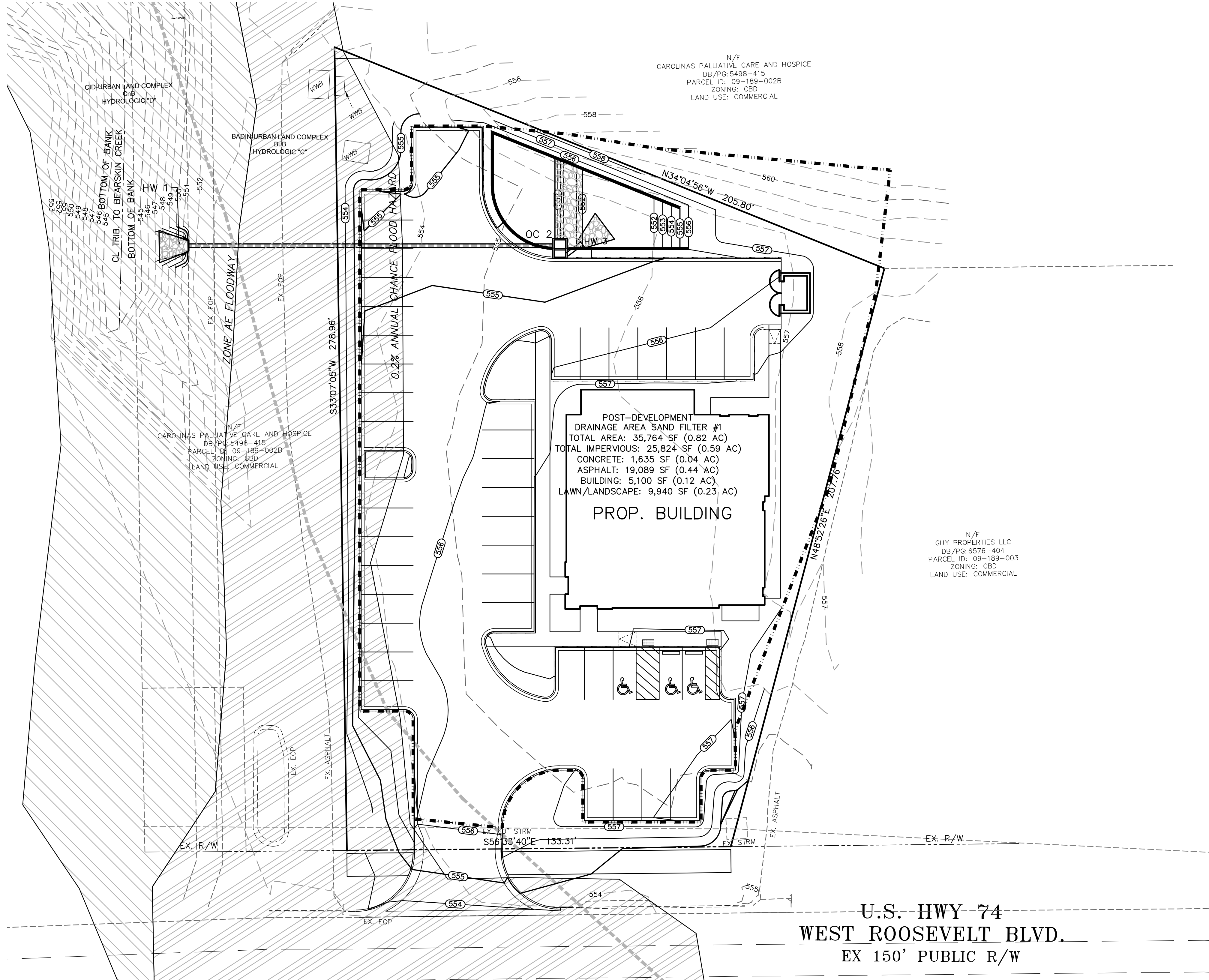
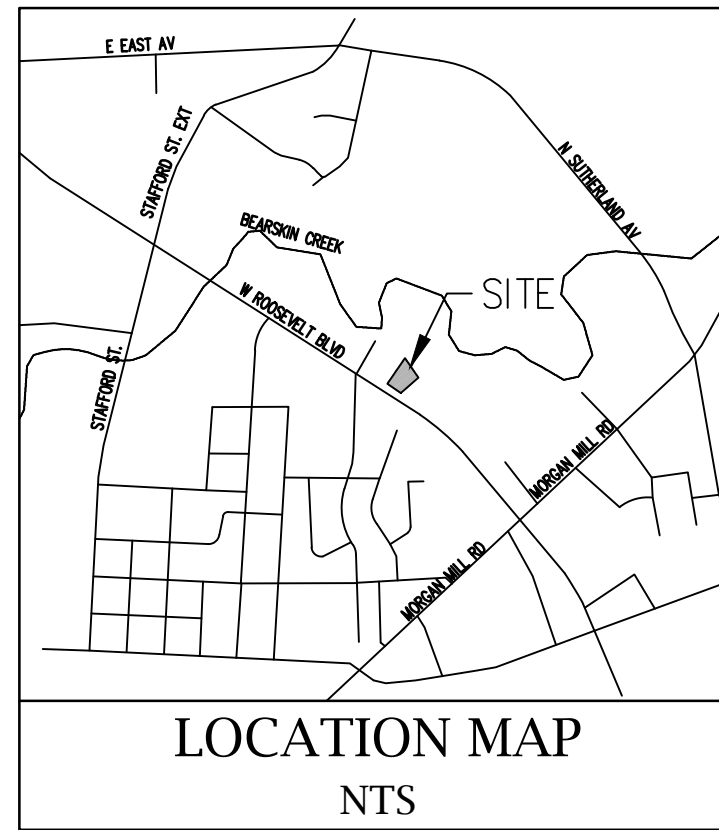
AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

PRE-
DEVELOPMENT
DRAINAGE AREA
PLAN

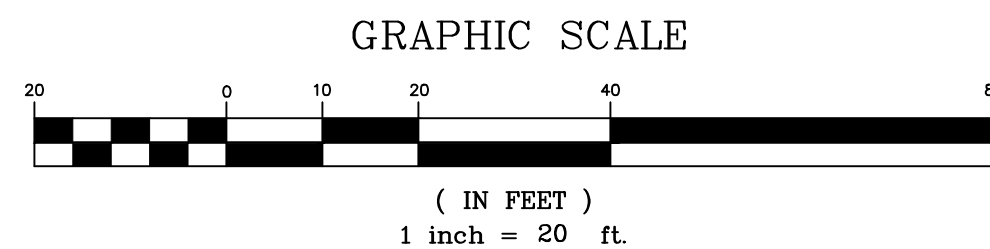
REVISIONS		
2	10/28/22	VARIOUS COMMENTS
3	2/6/23	VARIOUS COMMENTS
4	2/21/23	MONROE STORMWATER

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2023

C4.2



Know what's below.
Call before you dig.



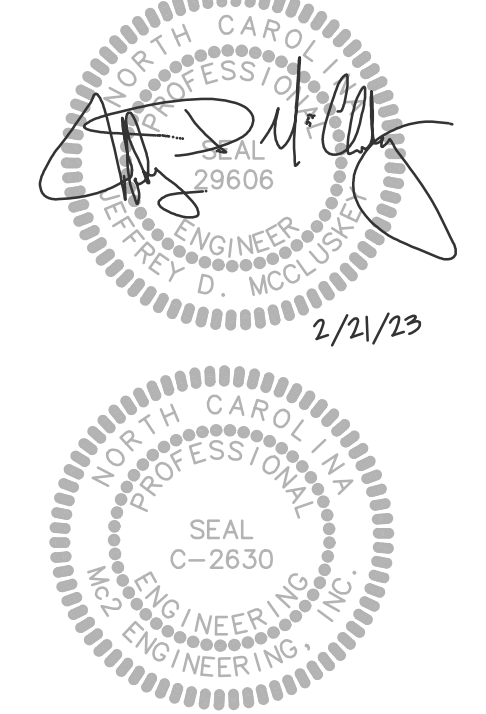
AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

POST-
DEVELOPMENT
DRAINAGE AREA
PLAN

REVISIONS		
4	2/21/23	MONROE STORMWATER

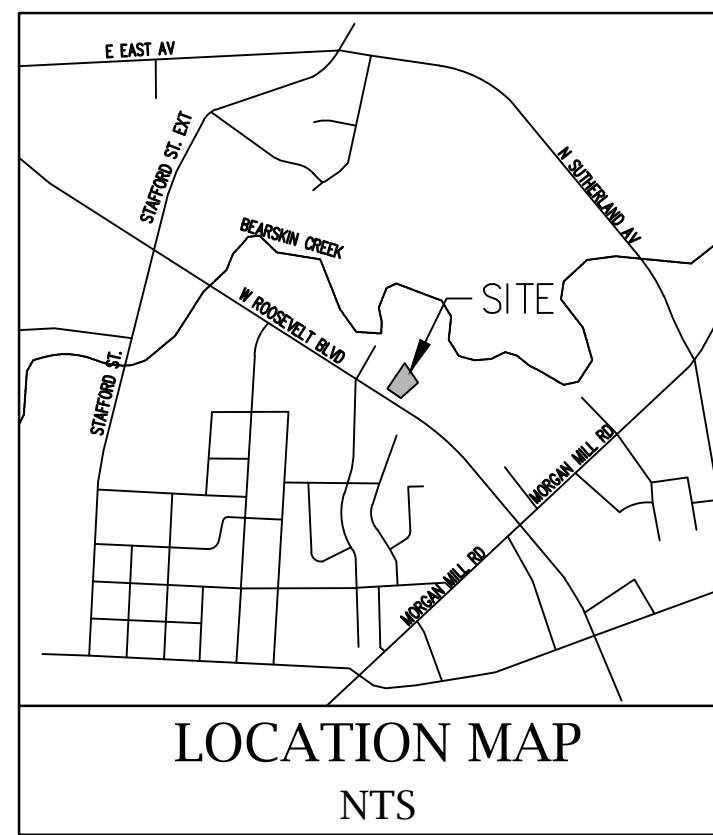
CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2022

4
C4.3

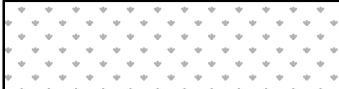










THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF
MC² ENGINEERING, INC. REPRODUCTION OR USE FOR ANY
PURPOSE OTHER THAN THAT AUTHORIZED BY MC² ENGINEERING, INC. IS PROHIBITED.

MC² ENGINEERING, INC.
2110 BEN CRAIG DR., STE. 400
CHARLOTTE, NC 28262
PHONE 704.510.9797



- KEY NOTES:**
- (A) INSTALL NEW TREE PER TREE PLANTING DETAIL SEE DETAIL 4 AND 7/C9.1. CONTRACTOR SHALL INSTALL 6" DIAMETER 4" HARDWOOD MULCH LAYER AROUND PLANTED TREES WITHIN PROPOSED GRASSED AREAS.
 - (B) INSTALL SHRUBS PER SHRUB PLANTING DETAIL SEE DETAIL 1/C9.1. SHRUB HEDGES SHALL BE LANDSCAPED WITH 4" HARDWOOD MULCH LAYER.
 - (C) CITY OF MONROE 35' X 35' SIGHT TRIANGLE
 - (D) 10' X 70' SIGHT TRIANGLE
 - (E) 65' TREE CIRCLE
 - (F) THE LANDSCAPER SHALL SEED AS INDICATED IN THE SPECIFICATIONS. LANDSCAPER SHALL PREPARE SOIL BY ADDING STARTER FERTILIZER, LIMESTONE AND FESCUE SEED MIX.

	GRASS SEED
	MULCH
	FESCUE SOD
	SAND FILTER (C4-1)

SYMBOL	QTY	COMMON NAME	SCIENTIFIC NAME	CALIPER	MIN. HEIGHT
	4	RED MAPLE	<i>Acer rubrum</i>	2"	8'
	3	WILLOW OAK	<i>Quercus phellos</i>	2"	8'
	2	EASTERN REDBUD	<i>Cercis canadensis</i>	1 1/2"	6'
	40	INDIAN HAWTHORN	<i>Raphiolepis indica</i>	18-24"	
	30	DWARF BURFORD HOLLY	<i>Ilex cornuta "Burfordii Nana"</i>	18-24"	

NOTE:
1. CONTRACTOR SHALL NOT PLANT TREES OR SHRUBS IN ANY SIGHT TRIANGLES.

PLANT MATERIALS LIST

TREE PLANTING NOTES:

1. ALL STRAPPING & TOP ¾ OF WIRE BASKET MUST BE CUT AWAY & REMOVED FROM THE ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP ¾ OF THE BURLAP FROM THE ROOT BALL.
2. FOR NEW PLANTING AREAS, REMOVE CONSTRUCTION DEBRIS, UN-COMPACT & AMEND THE TOP 24" OF EXISTING SOIL TO MEET TOPSOIL/PLANTING MIX STANDARDS FOR TREES.
3. LARGE MATURING TREES MAY NOT BE PLANTED WHERE OVERHEAD DISTRIBUTION OR TRANSMISSION LINES EXIST. IF TREES CONFLICT WITH POWER LINES OR SIGNS, CALL THE CITY INSPECTOR TO RESOLVE BEFORE PLANTING.
4. ADJUST TREE-PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES.

CITY OF MONROE STANDARD LANDSCAPING NOT

1. ALL TREES SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTE IN DIVISION 06.00 OF THE CITY OF MONROE STANDARD SPECIFICATIONS AT DETAIL MANUAL.
2. THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL PRIOR TO DIGGING.
3. PLANTING BACKFILL MIXTURE: 4 PARTS TOPSOIL; 1 PART PEAT MOSS, 10 LBS. 5-10-5 PLANTING FERTILIZER THOROUGHLY MIXED PER CUBIC YARD.
4. STAKE TREES IMMEDIATELY AFTER PLANTING.
5. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH DIVISION 06.00 OF THE CITY OF MONROE STANDARD SPECIFICATIONS AND DETAIL MANUALS.

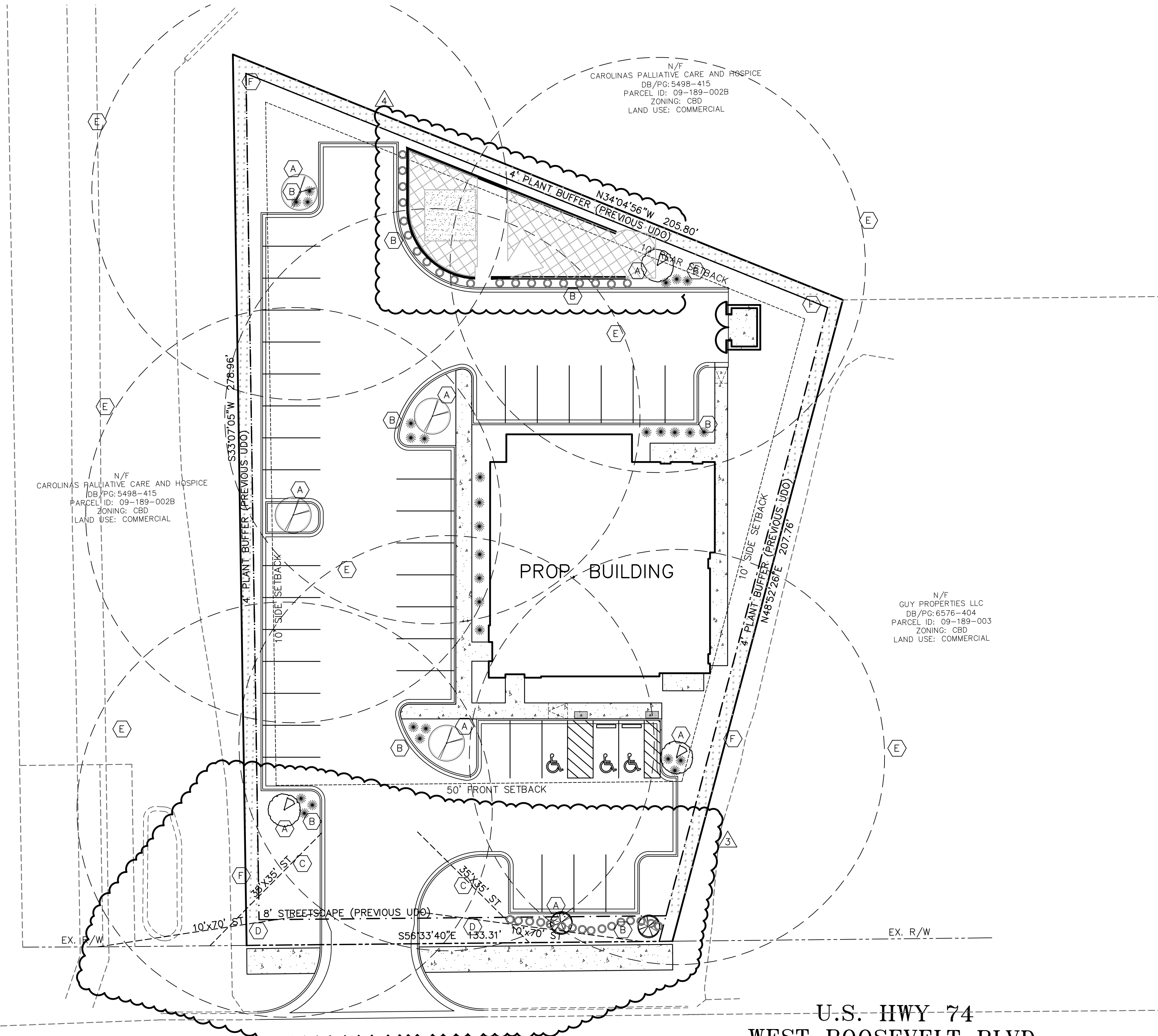
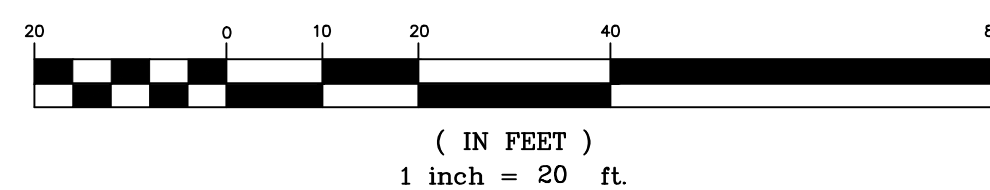
8' WIDE STREETSCAPE BUFFER (WEST ROOSEVELT BOULEVARD)	
PER PREVIOUS UDO	
- TOTAL LF OF STREETSCAPE BUFFER	95
- MINIMUM WIDTH (FT)	8
- MIN. REQ. 2 CANOPY TREES PER 100 LF	2
PROVIDED UNDERSTORY TREES	2
- CANOPY TREES - 1 WITH UNDERSTORY	2
- DUE TO OVERHEAD ELECTRIC	
- MIN. REQ. 20 SHRUBS PER 100 LF	20
- PROVIDED SHRUBS	20
4' MINIMUM GRASSED AREA (ALL PROPERTY BOUNDARIES)	
PER PREVIOUS UDO	
- FREE OF ANY IMPERVIOUS ENCROACHMENTS	

PARKING LOT YARD PER PREVIOUS UDO	
- TOTAL VEHICLE SPACES:	43
- MIN. REQ. 1 CANOPY TREE PER 12 SPACES	4
(HIGHEST REQUIREMENT)	5,100 SF
- GROSS FLOOR AREA	3
- MIN. REQ. 1 CANOPY TREE PER 2,000 SF GFA	3
- PROVIDED CANOPY TREES	7
- MIN. REQ. 6 SHRUBS PER 12 SPACES	22
(HIGHEST REQUIREMENT)	18
- MIN. REQ. 6 SHRUBS PER 2,000 SF GFA	16
- PROVIDED SHRUBS	22
- MAXIMUM ALLOWABLE PERCENT DECIDUOUS SHRUBS	40%
- PROVIDED PERCENT DECIDUOUS SHRUBS	0%
<p>(NO PARKING SPACE MAY BE LOCATED MORE THAN SIXTY-FIVE (65) FEET AWAY FROM A CANOPY/DECIDUOUS TREE.</p>	

LANDSCAPE SUMMAR



Know what's **below**.
Call before you dig.



U.S. HWY 74
WEST ROOSEVELT BLVD.
EX 150' PUBLIC R/W



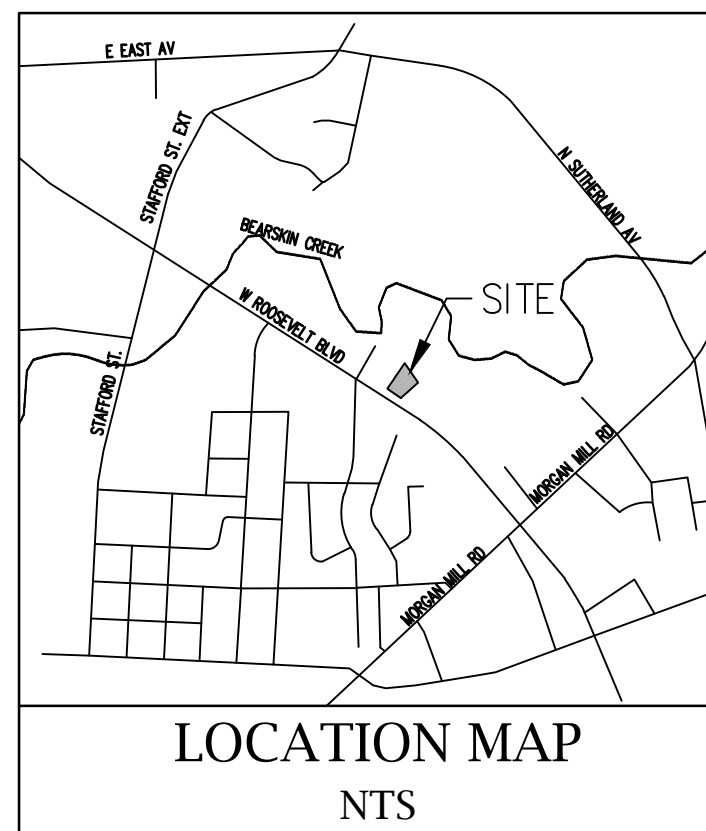
THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF
Mc2 ENGINEERING, INC. REPRODUCTION OR USE FOR ANY
PURPOSE OTHER THAN THAT AUTHORIZED BY Mc2
ENGINEERING, INC. IS PROHIBITED. 2021 ©

AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110

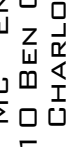
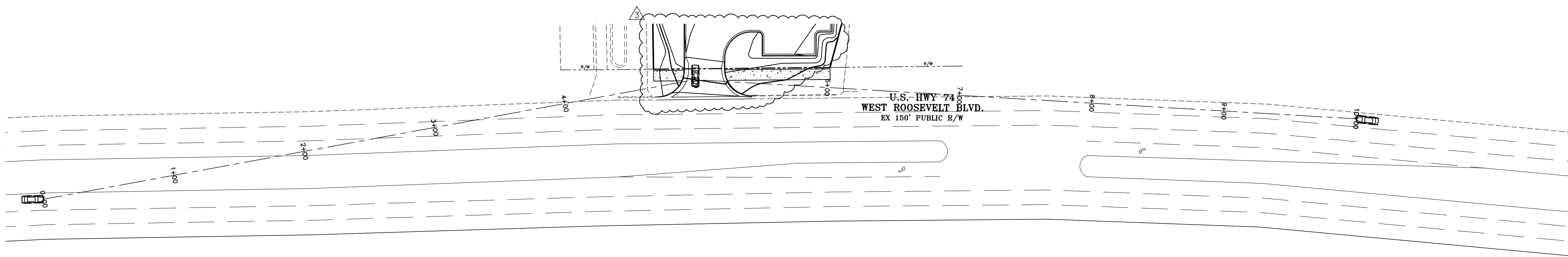
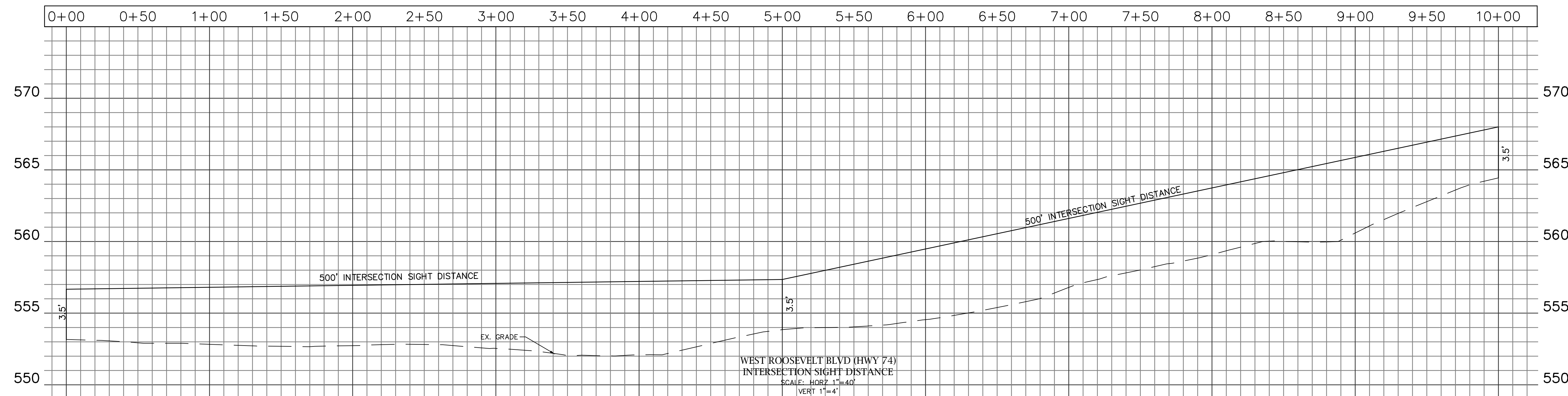
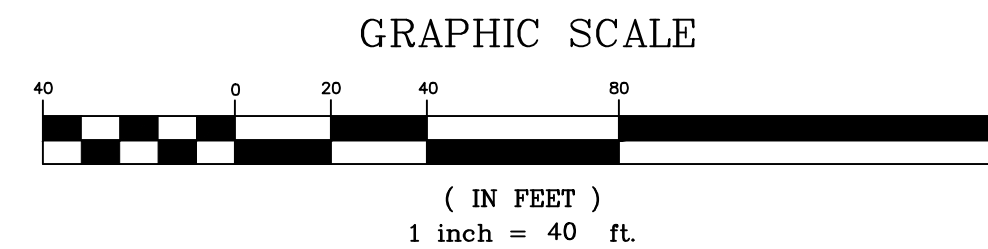
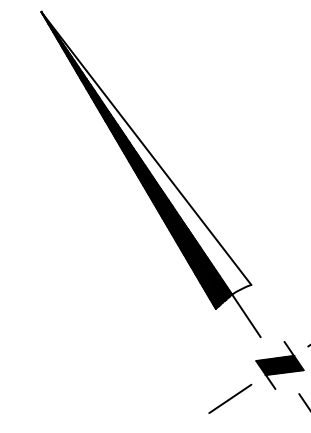
LANDSCAPE
PLAN[illegible]

CAD FILE:	22-008 BASE.DWG
PROJECT NO.:	22-008
DESIGNED BY:	JDM
REVIEWED BY:	JDM
DATE:	AUGUST 30, 2022

C5.0



Know what's **below**.
Call before you dig



Mc²
ENGINEERING

Mc² ENGINEERING, INC.
110 BEN CRAIG DR. STE. 400
CHARLOTTE, NC 28262
PHONE 704.510.9797



2/6/23



THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF
Mc2 ENGINEERING, INC. REPRODUCTION OR USE FOR ANY
PURPOSE OTHER THAN THAT AUTHORIZED BY Mc2
ENGINEERING, INC. IS PROHIBITED. 2021

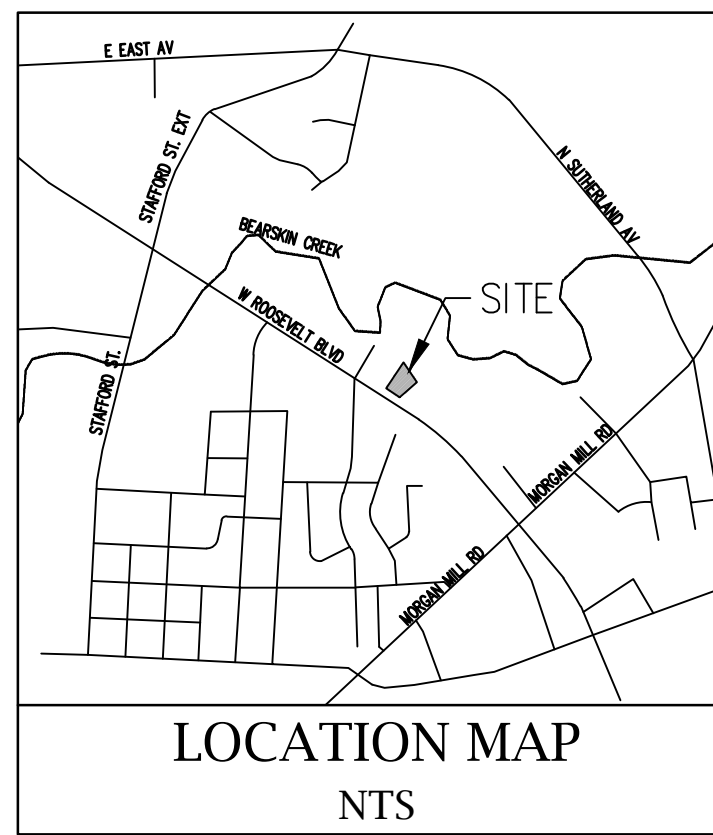
**AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110**

INTERSECTION SIGHT DISTANCE

[illegible]

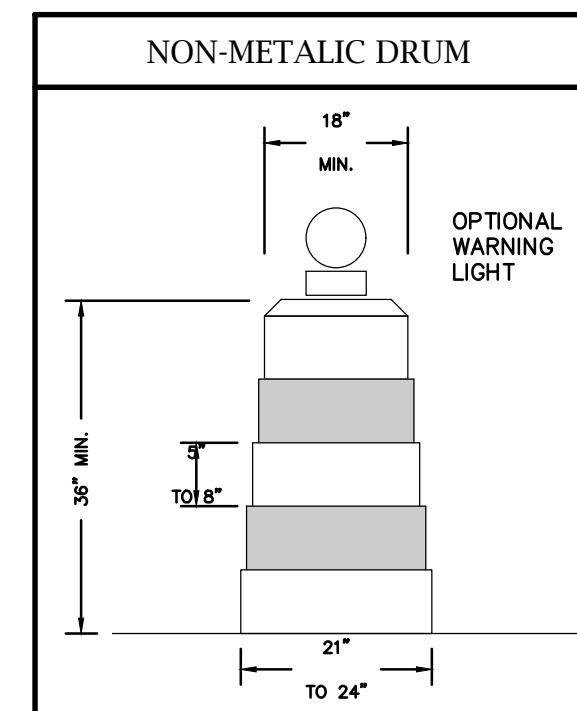
CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2022

C6.0



NCDOT INSPECTOR CAN REQUEST
TRAFFIC CONTROL REVISION IF NEEDED

POLICE MUST ASSIST WITH TRAFFIC
CONTROL AT THE SIGNAL.



GENERAL REQUIREMENTS – PAVEMENT WIDENING TRAFFIC CONTROL STANDARDS

A. STREET SPACE IS AT A MINIMUM SO NO MORE SPACE SHOULD BE USED FOR CONSTRUCTION OR MAINTENANCE WORK THAN IS ABSOLUTELY NECESSARY. THROUGH BARRICADING AND CHANNELIZATION, THE REMAINING STREET SPACE IS TO BE USED TO CARRY THE TRAFFIC AROUND THE WORK AREA IN THE BEST WAY POSSIBLE UNDER PREVAILING CONDITIONS.

B. TRAFFIC CONTROL DEVICES SHALL BE SET UP PRIOR TO THE START OF CONSTRUCTION OR MAINTENANCE OPERATIONS, AND SHALL BE REMOVED OR RELOCATED AS THE WORK IS FINISHED OR WORK CONDITIONS CHANGE. THE AGENCY DOING THE WORK SHALL PATROL THE WORK SITE AS REQUIRED TO ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND OPERATING AT ALL TIMES.

C. ALL TRAFFIC CONTROL SIGNS FOR THE WORK AREA SHALL BE REFLECTORIZED. THE REFLECTIVE MATERIALS USED SHALL BE EQUAL TO OR BETTER THAN THE TYPE I, LEVEL A REFLECTIVE SHEETING REQUIREMENTS IN SECTION 633 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-74).

D. AT NIGHT, ADEQUATE BARRICADES WITH REFLECTORIZED MATERIAL AND LIGHTS ARE REQUIRED TO CALL ATTENTION TO AND TO INDICATE THE ACTUAL LOCATION OF OBSTRUCTIONS AND HAZARDS.

E. WHEN NOT IN USE DURING WORK HOURS OR CONSTRUCTION INACTIVITY, EQUIPMENT SHALL BE PARKED IN SUCH A MANOR AS TO NOT CREATE A SIGHT TRIANGLE DISTANCE HAZARD BLOCKING THE MOTORISTS VIEW OF TRAFFIC SIGNS AND

F. THE MINIMUM WIDTH FOR TEMPORARY TRAVEL LANES IS 10 FEET; HOWEVER, A 12-FOOT LANE IS ADVISABLE AND SHOULD BE PROVIDED WHENEVER POSSIBLE.

G. WHENEVER TRAFFIC MUST BE ROUTED ACROSS THE CENTERLINE, THE TWO DIRECTIONS OF TRAFFIC MUST BE PHYSICALLY SEPARATED. TRAFFIC CONES CAN BE EFFECTIVELY USED FOR THIS PURPOSE DURING DAYLIGHT HOURS; REFLECTORIZED DRUMS MUST BE USED AT NIGHT.

H. TRAFFIC SHALL NOT BE ROUTED ACROSS CENTERLINE WITH CONES OR DRUMS DURING NON-WORKING HOURS. CONTRACTOR MUST BE ON SITE OR CHANGE PAVEMENT MARKINGS APPROPRIATELY.

I. GENERALLY, THE PEAK FLOW OF TRAFFIC OCCURS BETWEEN THE HOURS OF 7-9 AM AND 4-6 PM, MONDAY THROUGH FRIDAY. DURING THESE HOURS CONSTRUCTION OR MAINTENANCE WORK WHICH INVOLVE A LANE CLOSURE OR IN ANY WAY IMPEDES TRAFFIC WILL NOT BE ALLOWED ON THOROUGHFARE STREETS EXCEPT FOR EMERGENCY CONDITIONS OR WITH PRIOR APPROVAL FROM THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.

J. THE AGENCY DOING THE WORK SHALL PROVIDE FLAGGERS AND/OR POLICE CONTROL WHEN REQUIRED. THE CONTRACTOR MAY ALSO BE REQUIRED TO PROVIDE A UNIFORM OFFICER TO CONTROL TRAFFIC WHEN WORKING IN AN AROUND A SIGNALIZED INTERSECTION.

K. EVERY ATTEMPT SHALL BE MADE TO SCHEDULE AND EXPEDITE THE WORK TO CAUSE THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC.

L. IN SITUATIONS NOT COVERED IN THIS STANDARD, THE PROTECTION OF TRAVELING PUBLIC AND THE PROTECTION OF THE WORKERS ON SITE WILL DICTATE THE MEASURES TO BE TAKEN CONSISTANT WITH THE GENERAL PRINCIPLES OF CHAPTER 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

M. THE CONTRACTOR, UTILITY COMPANY OR GOVERNMENTAL AGENCY INVOLVED IN THE WORK IS RESPONSIBLE FOR NOTIFYING THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION OF ANY MAJOR WORK WHERE THE NUMBER OF TRAVEL LANES ARE REDUCED FROM NORMAL CONDITIONS OR THE STREET IS REQUIRED TO BE CLOSED. EXCEPT IN EMERGENCIES, THE FOLLOWING NOTIFICATION IS REQUIRED:

1. BEGINNING OF CONSTRUCTION - TEN DAYS PRIOR TO BEGINNING WORK.
2. CLOSING 1 OR MORE TRAVEL LANES - FIVE(5) WORKING DAYS PRIOR TO THE SCHEDULED WORK.
3. CLOSING A STREET - TEN (10) WORKING DAYS PRIOR TO THE SCHEDULED WORK.

THIS LEAD TIME IS NECESSARY FOR PLANNING AND NOTIFYING THE PUBLIC OF EXPECTED CHANGES IN THE NORMAL TRAFFIC CONDITIONS.

N. DURING CONSTRUCTION INACTIVITY, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE TRAVEL LANE IN EACH DIRECTION. THE CONTRACTOR SHALL BACK FILL DROP-OFF ADJACENT TO THE TRAVEL LANE IN ACCORDANCE WITH SECTION XI OF THE WATCH.

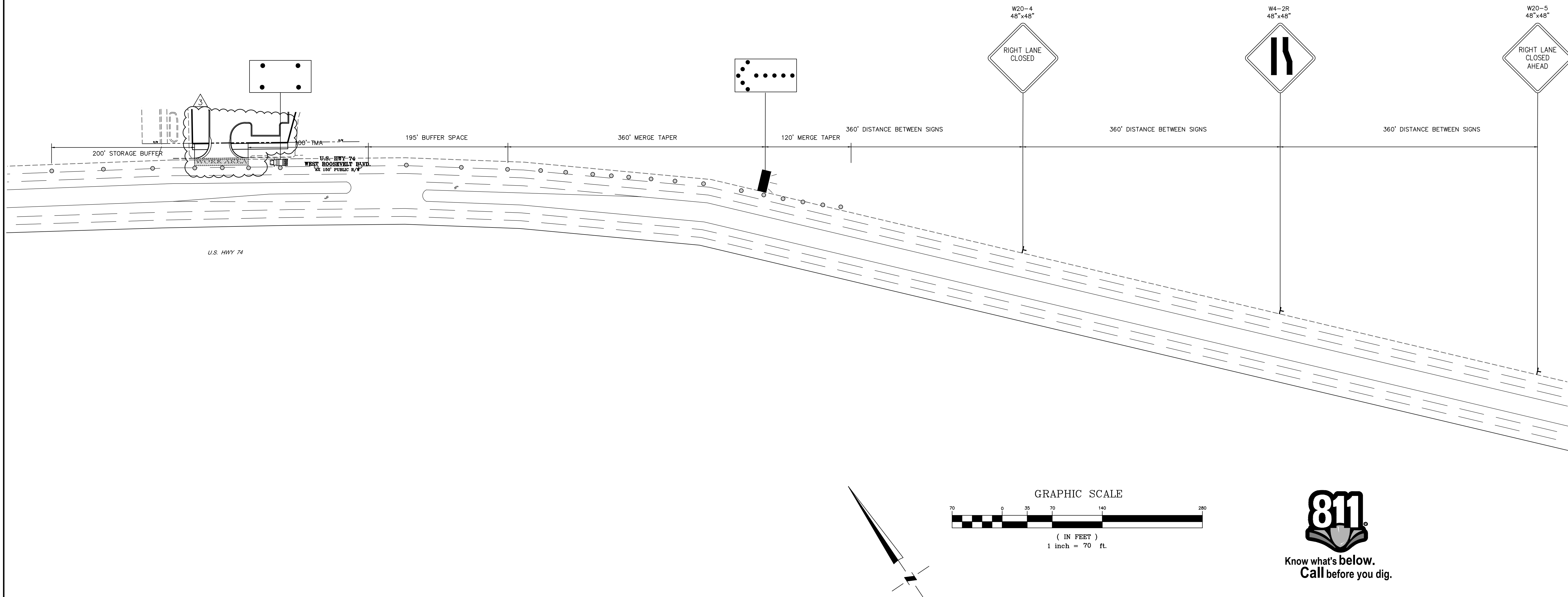
O. THE NCDOT DISTRICT ENGINEER OR REPRESENTATIVES ARE AUTHORIZED TO STOP ANY CONSTRUCTION OR MAINTENANCE ACTIVITY WHICH IS NOT PROPERLY SIGNED AND BARRICADED AS REQUIRED BY THIS STANDARD AND THE MUTCD UNTIL SUCH REQUIREMENTS ARE MET.

P. THIS DESIGN STANDARD CANNOT BE USED FOR ALL ROADWAY CONSTRUCTION SITUATIONS. IT IS INTENDED ONLY TO BE USED AS GUIDELINE. SPECIFIC SITUATIONS MAY REQUIRE ENGINEERING JUDGMENT IN THE PLACEMENT OF TRAFFIC CONTROL DEVICES, BECAUSE OF LIMITED VERTICAL AND/OR HORIZONTAL SIGHT DISTANCE.

R. WHEN PERSONNEL AND/OR EQUIPMENT ARE WITHIN 3' OF THE OF AN OPEN TRAVEL LANE, THE CONTRACTOR SHALL REFER TO THE TRAFFIC CONTROL PLAN OR NCDOT ROADWAY STD. DWG. NO. 150.05 FOR THE APPROPRIATE LANE CLOSURE.

S. OPERATIONAL SIGNS ARE GENERALLY MOUNTED ON PORTABLE SUPPORT. THESE ARE USUALLY USED FOR SHORT TERM OPERATIONS WARN AND GUIDE TRAFFIC.

T. ALL DRUMS SHALL BE BALLASTED IN SUCH A MANNER THAT THEY WILL BE STABLE UNDER WIND AND VEHICLE ACTION. BALLASTING SHALL BE DONE WITH SANDBAGS OR OTHER YEILDING MATERIAL SITUATED AT THE BASE OF THE DRUM.



Know what's **below**.
Call before you dig.



THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF
Mc2 ENGINEERING, INC. REPRODUCTION OR USE FOR ANY
PURPOSE OTHER THAN THAT AUTHORIZED BY Mc2
ENGINEERING, INC. IS PROHIBITED. 2021 ©

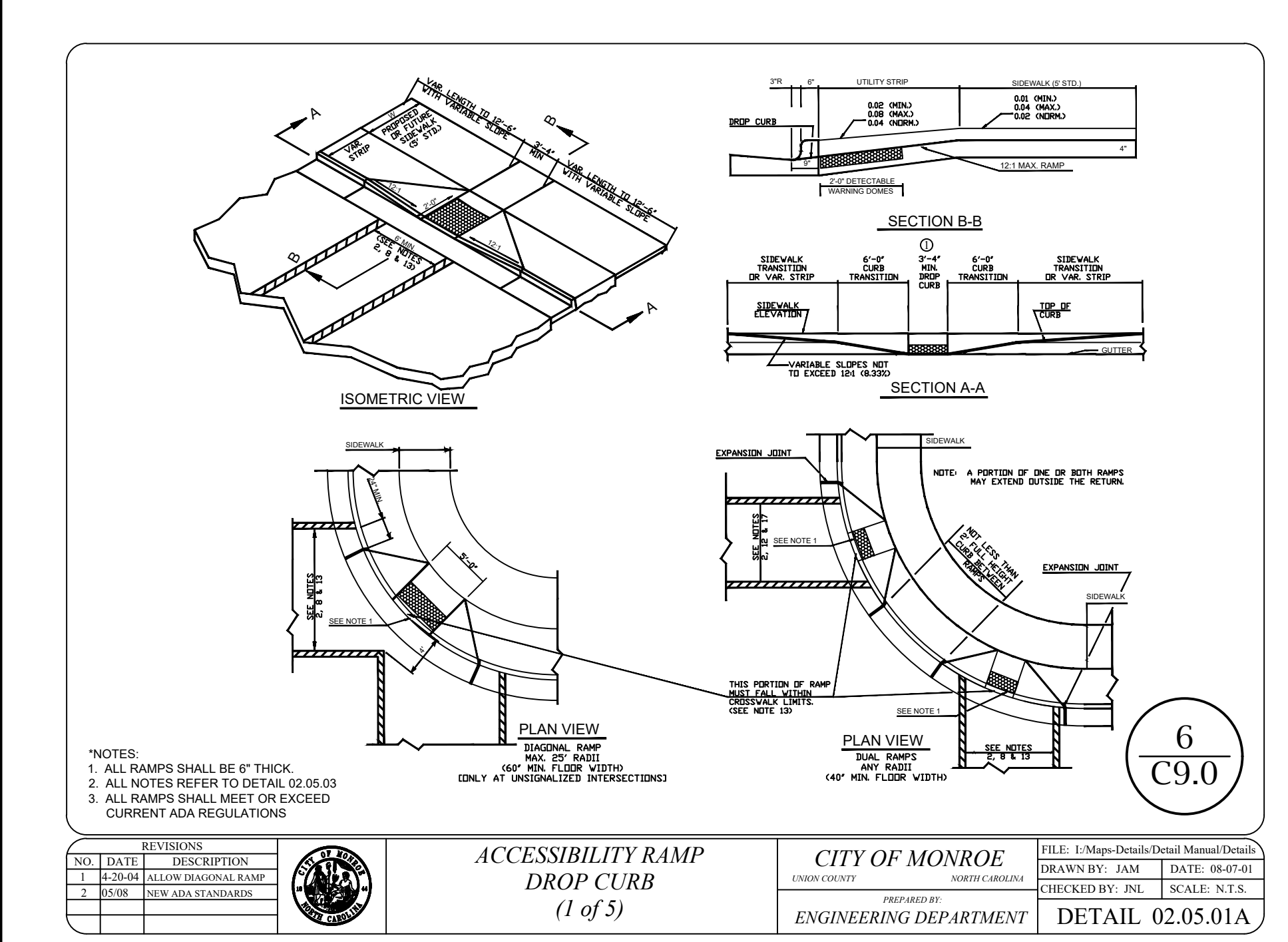
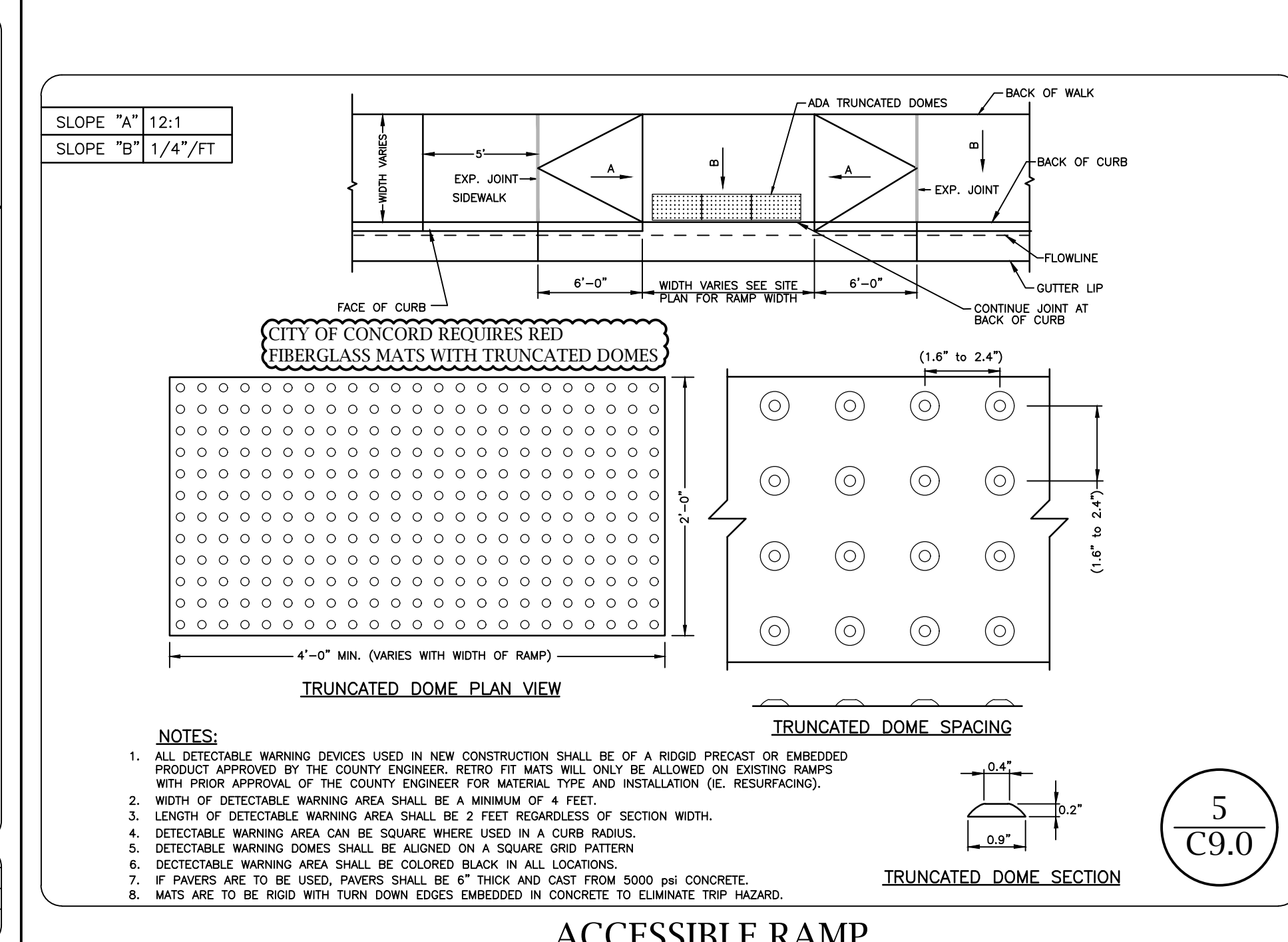
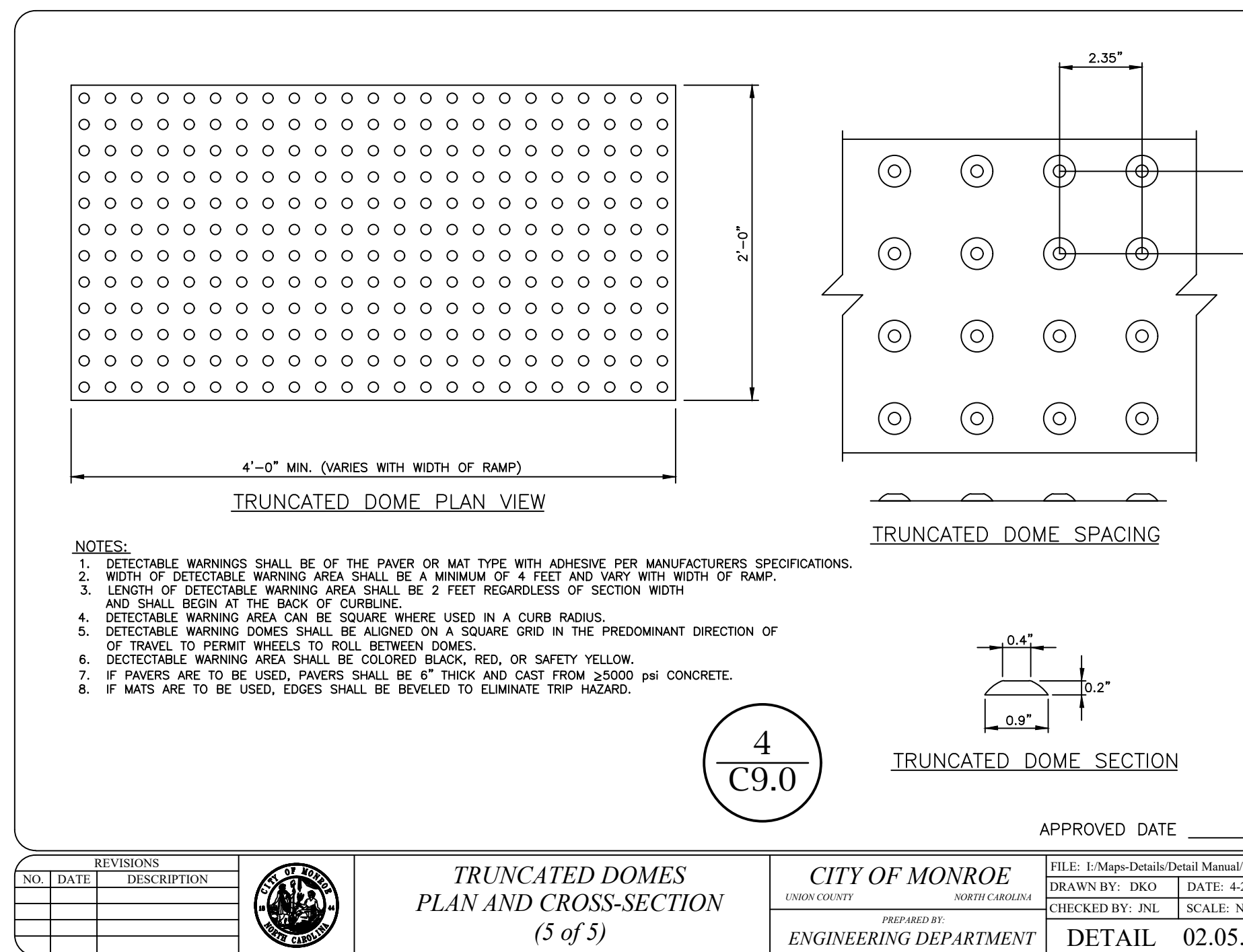
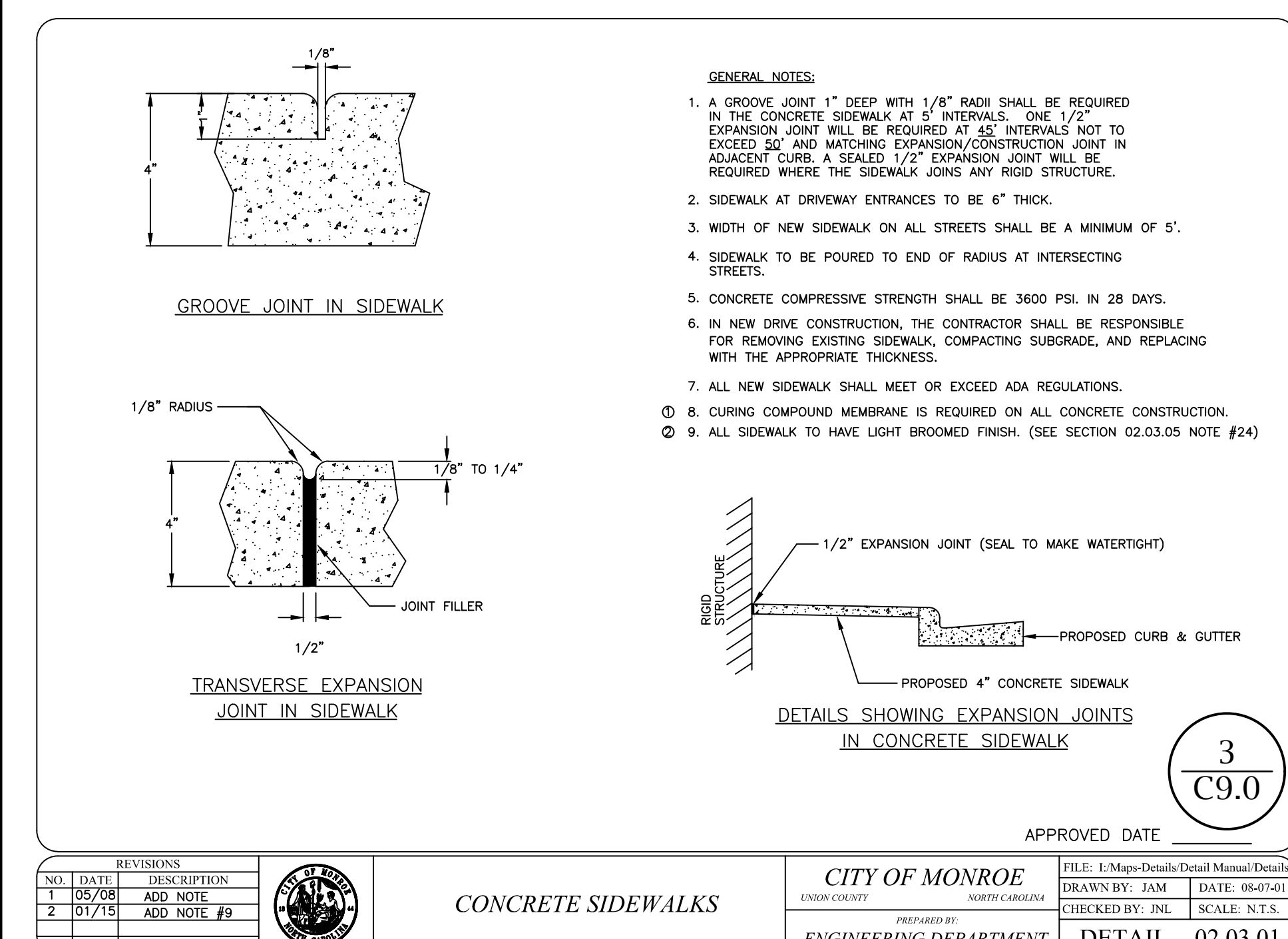
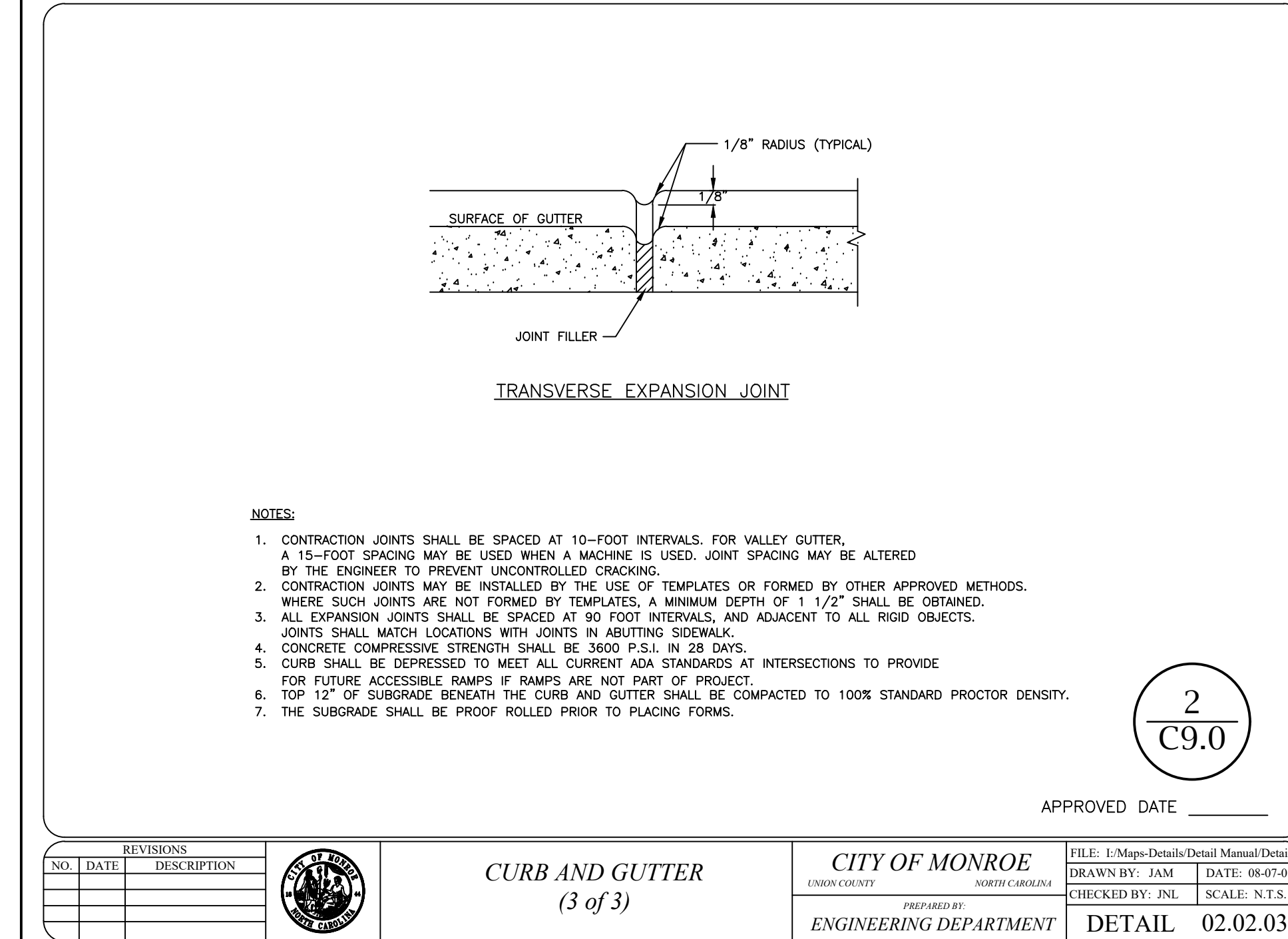
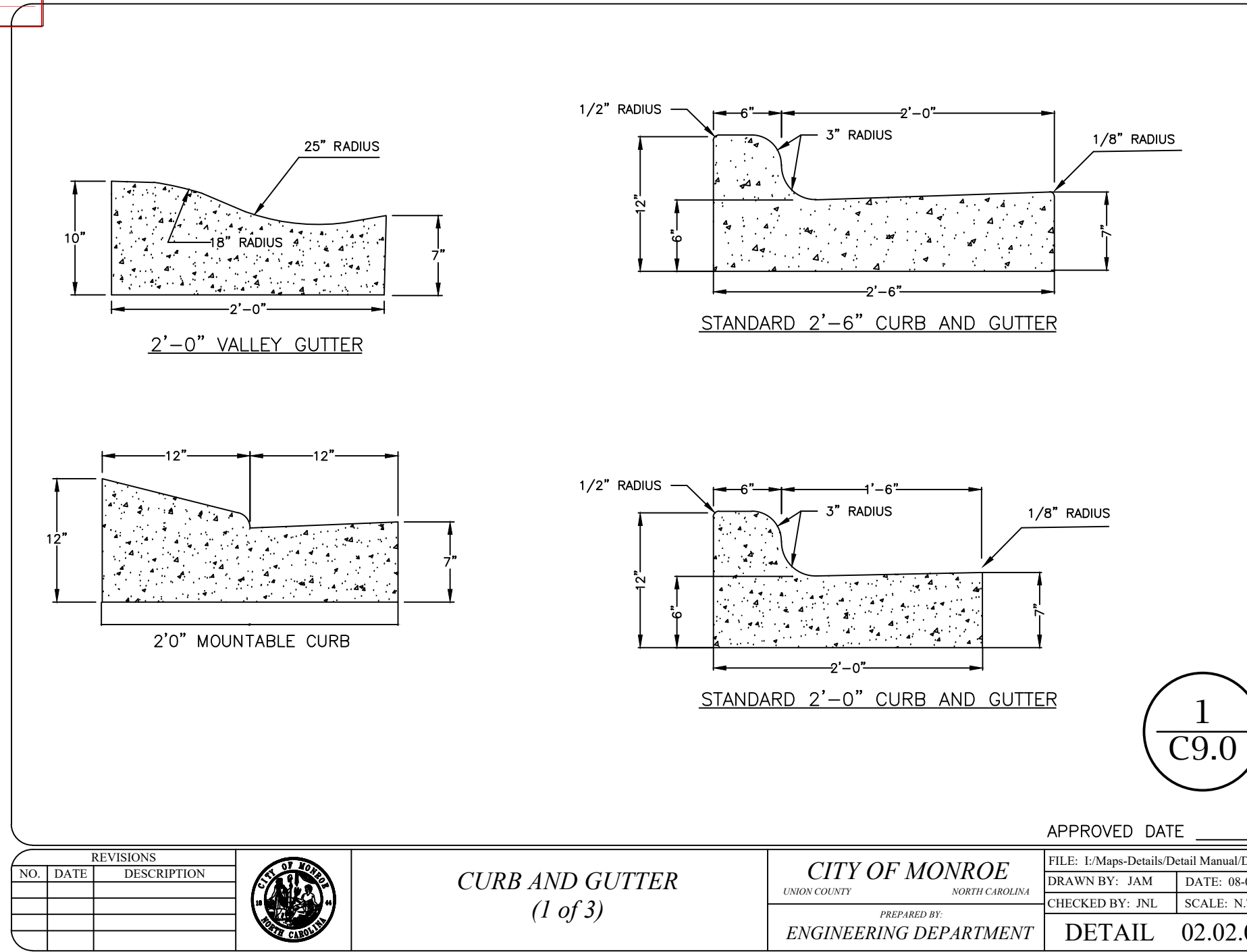
**AY CARAMBA
FAMILY RESTAURANT
650 WEST ROOSEVELT BOULEVARD
MONROE, NC 28110**

TRAFFIC CONTROL PALN

[illegible]

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: AUGUST 30, 2022

C6.1



SEEDING:

SEEDING MIXTURE:

GRASS SEED FOR URBAN LANDSCAPE PLANTINGS SHALL BE A BLEND OF TWO OR MORE VARIETIES OF TURF-TYPE TALL FESCUES AS SPECIFIED ON PLANS OR APPROVED BY ENGINEER. SEED SELECTION SHALL BE APPROVED BY THE CITY.

ALL SEED SHALL HAVE A 98% MIN. PURITY, 85% MIN. GERMINATION, AND BE FREE OF NOXIOUS WEED SEEDS, AS CERTIFIED BY THE NORTH CAROLINA CO-OP IMPROVEMENT ASSOCIATION OR ITS APPROVED EQUIVALENT BY THE ENGINEER. SEED SHALL BE DELIVERED TO THE SITE IN SEALED STANDARD SIZED CONTAINERS, SHOWING WEIGHT, ANALYSIS, NAME OF VENDOR AND GERMINATION TEST, SEED WHICH HAS BECOME WET, MOLDY, OVER ONE YEAR OLD, OR OTHERWISE DAMAGED, WILL NOT BE ACCEPTED.

TURF-TYPE FESCUE MAY BE SEEDD YEAR-ROUND; HOWEVER, ANY VARIANCE IN THE BELOW SEEDING SCHEDULE WILL REQUIRE AT LEAST ONE OVER-SEEDING APPLICATION FROM AUG. 22 - OCT. 31 TO ENSURE 100% COVERAGE. THIS OVER-SEEDING IS CONSIDERED INCIDENTAL AND THERE SHALL BE NO SEPARATE MEASUREMENT OR PAYMENT FOR OVER-SEEDING AND SHALL BE DONE IN CONJUNCTION WITH CORE AERATION.

WRITTEN REQUESTS FOR A VARIANCE MUST BE APPROVED BY THE ENGINEER.

APPLY TURF-TYPE FESCUE AT OR AT MINIMUM OF SIX (6) LBS. PER 1000 SF. ORGANIC LAWN MULCH SHALL BE SPREAD UNIFORM.

SEEDING DATES FOR TURF-TYPE FESCUE:

FALL: AUG. 5 - OCT. 15
SPRING: FEB. 15 - APR. 15

SOIL AMENDMENTS:

FOLLOW RECOMMENDATIONS OF SOIL TESTS. LIME SHALL BE PELLETED DOLOMITE LIMESTONE THAT MEETS NCM STANDARDS FOR PARTICLE SIZES. ALL LIME SHALL BE UNIFORM IN COMPOSITION, DRY, FREE FLOWING AND SHALL BE DELIVERED TO THE SITE IN ORIGINAL UNOPENED CONTAINER, EACH BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS. ANY LIME WHICH BECOMES CAKED OR OTHERWISE DAMAGED WILL NOT BE ACCEPTED. COMMERCIAL FERTILIZER APPLIED AT SEEDING/SODDING TIME SHALL BE A SLOW RELEASE STARTER FERTILIZER. ALL FERTILIZER SHALL BE UNIFORM IN COMPOSITION, DRY, FREE FLOWING AND SHALL BE DELIVERED TO THE SITE IN ORIGINAL UNOPENED CONTAINER, EACH BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS. ANY LIME WHICH BECOMES CAKED OR OTHERWISE DAMAGED WILL NOT BE ACCEPTED.

PROTECTIVE ORGANIC MULCH:

MULCH SHALL BE CLEAN THRESHED WHEAT OR OAT STRAW FROM THE LATEST AVAILABLE HARVEST CROP AND SHALL BE FREE OF NOXIOUS WEED SEEDS AND FOREIGN MATERIAL. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER.

SOIL TESTING:

TESTING RESULTS SHALL BE PROVIDED BY CONTRACTOR PRIOR TO INSTALLATION OF CROP. BASED ON SOIL TESTS RESULTS AND DIRECTION OF ENGINEER, DETONATIONS SHALL BE CORRECTED BY THE CONTRACTOR. ANY SAMPLE FOR APPROVAL MUST BE THE CONTRACTOR'S OR VENDOR'S RESPONSIBILITY AND MUST BE TESTED BY A REPUTABLE SOIL TESTING LAB.

PREPARATION OF SEED BED:

UNLESS OTHERWISE APPROVED BY THE CITY, ALL OTHER SITE WORK REQUIRED BY THIS CONTRACT SHALL BE COMPLETE AND IN PLACE BEFORE GRASSING OPERATIONS ARE BEGUN. WORK MAY BE COMPLETED IN PARTS IF SO REQUESTED BY THE CONTRACTOR AND APPROVED BY THE CITY. PRIOR TO SEEDING OPERATIONS, ALL PREPARED LAWN AREAS SHALL BE SCARIFIED/TILLED TO 4" DEPTH AND PREPARED UNTIL THE SURFACE IS SMOOTH, FRABLE AND OF A UNIFORMLY FINE TEXTURE. REMOVE STONES AND FOREIGN MATERIAL OVER ONE INCH IN DIAMETER AND ORANGE FOR POSITIVE DRAINAGE AS REQUIRED TO PREVENT PONDING OF WATER. AFTER FINE GRADING/RAKING, THE SOIL SHALL BE FIRMED SO THAT THE SOIL SURFACE SHALL BEAR THE WEIGHT OF A PERSON AND NOT FORM A DEPRESSION IN EXCESS OF ONE (1) INCH.

LIME, SOIL ADDITIVES AND STARTER FERTILIZER SHALL BE BROADCASTED AND WORKED INTO THE SOIL UNIFORM DURING TILLAGE AT ALL AREAS AT THE RATE DICTATED BY THE SOIL TEST THAT WILL PROVIDE A PH LEVEL OF 6.5 TO 7.0.

MAINTENANCE:

SEEDING AREAS SHALL CONSIST OF FERTILIZATION, EROSION REPAIR, RESEEDING AND INCIDENTAL OPERATIONS AS NECESSARY TO ESTABLISH A VIGOROUS, HEALTHY AND UNIFORM STAND OF SPECIFIED GRASS. ALL AREAS THAT FAIL TO SHOW A UNIFORM STAND OF GRASS FOR ANY REASON SHALL BE TREATED PROPERLY UNTIL A UNIFORM STAND OF AT LEAST 90% COVERAGE IS ATTAINED WITH NO BARE AREAS.

GRASS MOWING OPERATIONS SHALL BE PERFORMED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE WORK. TRASH AND DEBRIS SHALL BE REMOVED PRIOR TO MOWING. MOWING SHALL BE PERFORMED ONLY WHEN THE GRASS IS DRY, NO MORE THAN 1/3 LEAF BLADE SHALL BE REMOVED AT EACH MOWING. TURF TYPE TALL FESCUE SHALL BE MAINTAINED AT A 3.5 TO 4 INCH HEIGHT. BERMUDA SHALL BE MAINTAINED AT A HEIGHT OF 1.5 TO 2 INCHES. ALL MAINTENANCE PERFORMED PRIOR TO ACCEPTANCE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.

WATERING SEEDING AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MANAGE A WATERING PROGRAM THAT RESULTS IN A STAND OF TURF THAT MEETS THE GUARANTEE REQUIREMENT OF THESE STANDARDS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DECIDE THE IRRIGATION DURATION AND FREQUENCY, BASED ON WEATHER AND SOIL CONDITIONS THAT PRODUCE THE REQUIRED RESULTS.

FERTILIZER TOP DRESSING SHALL BE DONE AS PER MANUFACTURER'S RECOMMENDED DATES.

7
C9.0

FOR LATE WINTER AND EARLY SPRING:

SEEDING MIXTURE:

RYE (GRAIN) - 120 LB/ACRE
ANNUAL LESPEDEZA (KOBÉ) - 50 LB/ACRE
(OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXCEED BEYOND JUNE)

SEEDING DATES:

JAN. 1 - MAY 1

FOR SUMMER:

SEEDING MIXTURE:

GERMAN MILLET - 40 LB/ACRE
(A SMALL-STEMMED SUBGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE)

SEEDING DATES:

MAY 1 - AUG. 15

FOR FALL:

SEEDING MIXTURE:

RYE (GRAIN) - 120 LB/ACRE

SEEDING DATES:

AUG. 15 - DEC. 30

FOR ADDITIONAL INFORMATION, REFER TO NCDEM EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (ESCPDM), SECTION 6.10. FOR PERMANENT SEEDING SPECIFICATIONS, INCLUDING SEED BED PREP, SEASONAL LIMITATIONS FOR SEEDING OPERATIONS, THE KINDS OF GRADES OF FERTILIZERS, THE KINDS OF SEED, AND THE DATES OF APPLICATION OF LIME, FERTILIZER, AND SEED, REFER TO NCDEM ESOPDM SECTION 6.11 AND THE CHARLOTTE LANDSCAPE CONSTRUCTION STANDARDS SECTION 04200 SEEDING AND SODDING OF TURFGRASS.

SOIL AMENDMENTS:

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

MULCH:

APPLY 4,000 LB/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, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE

SOIL AMENDMENTS:

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

MULCH:

APPLY 4,000 LB/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, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE

SOIL AMENDMENTS:

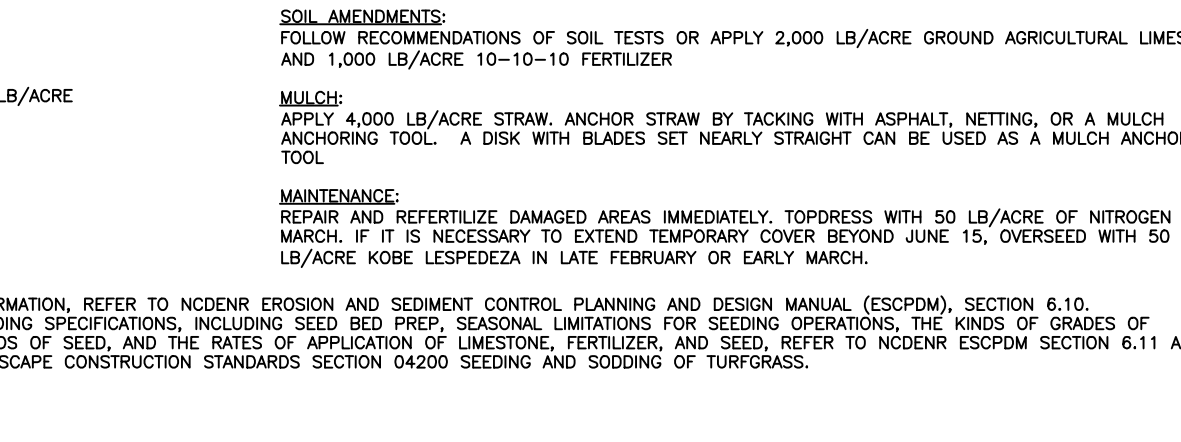
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER

MULCH:

APPLY 4,000 LB/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:

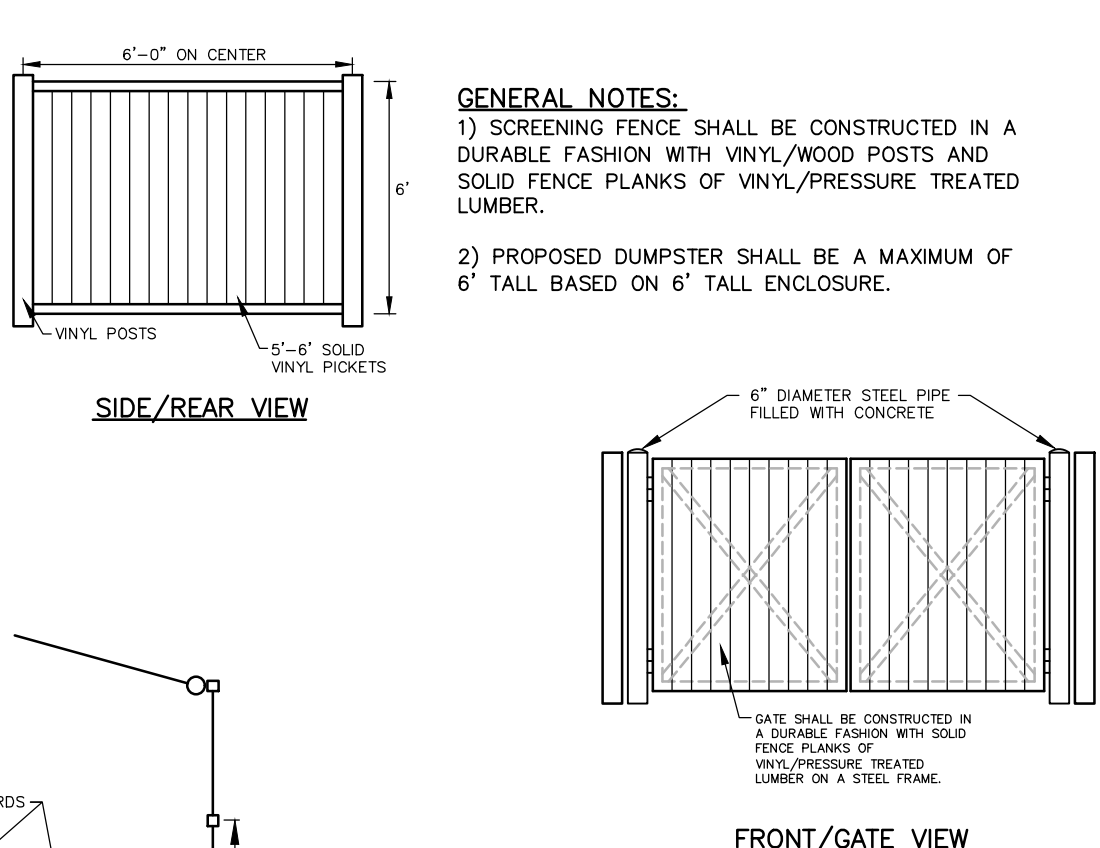
REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBÉ LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.



TEMPORARY SEEDING SCHEDULE

-NTS-

8
C9.0



DUMPSTER ENCLOSURE WITH FENCE

-NTS-

9
C9.0

Mc² ENGINEERING

Mc² ENGINEERING, INC., 400
CUTHBERTSON ROAD
CHARLOTTE, NC 28262
PHONE 704.510.9797

THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF Mc² ENGINEERING, INC. AND ARE FOR THE EXCLUSIVE USE OF THE PROJECT FOR WHICH THEY WERE PREPARED. NO PART OF THESE DESIGNS OR DRAWINGS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF Mc² ENGINEERING, INC.

2021 © Mc² ENGINEERING, INC.

AY CARAMBA
FAMILY RESTAURANT
2525 CUTHBERTSON ROAD
WAXHAW, NC 28173

SITE DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

CAD FILE: 22-008 BASE.DWG

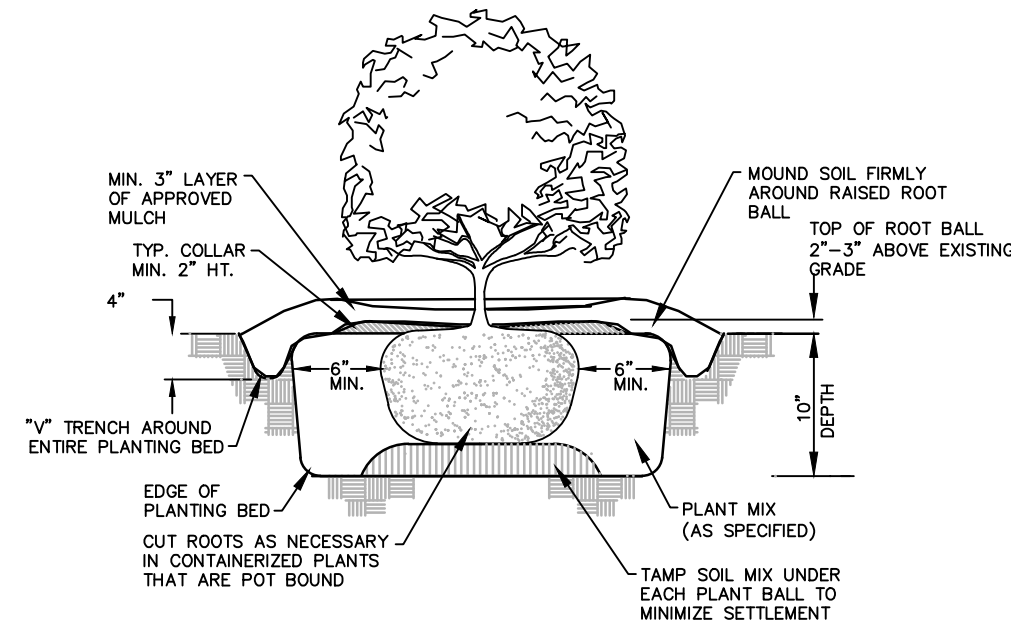
PROJECT NO.: 22-008

DESIGNED BY: JDM

REVIEWED BY: JDM

DATE: JUNE 29, 2022

C9.0



TYPICAL PLANTING BED DETAIL

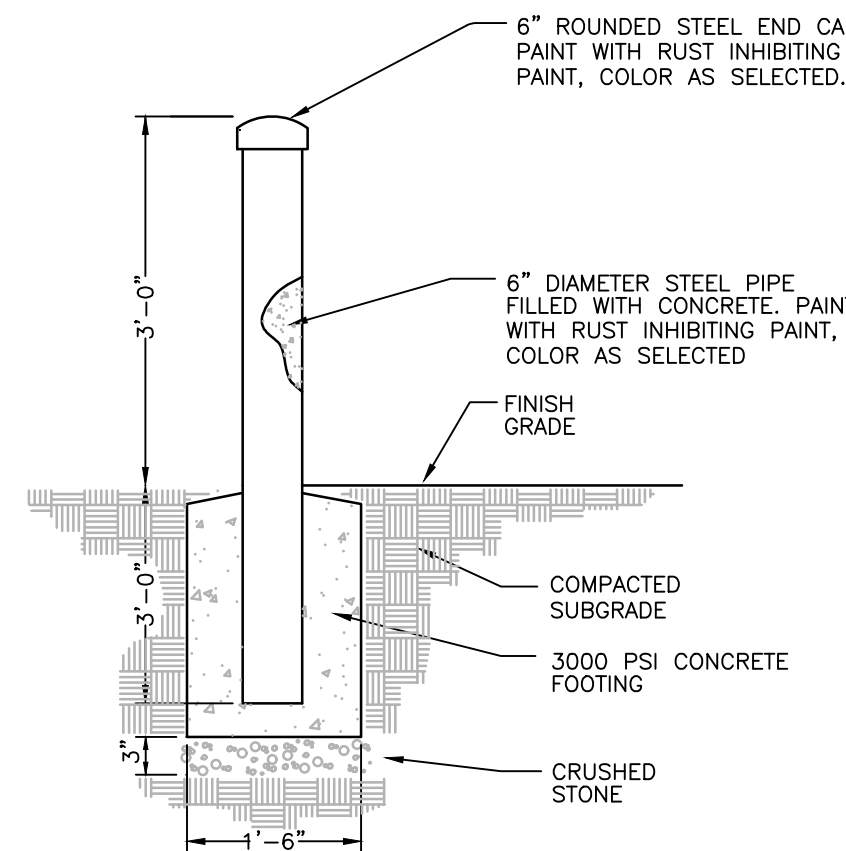
NOTES:

1. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
2. INSTALL TOP OF PLANT BALL 2"-3" ABOVE ADJACENT GRADE.
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. SOAK EACH PLANT BALL AND FIT IMMEDIATELY AFTER INSTALLATION.
5. SEE SPECIFICATIONS FOR OTHER PLANTING REQUIREMENTS.

SHRUB PLANTING DETAIL

-NTS-

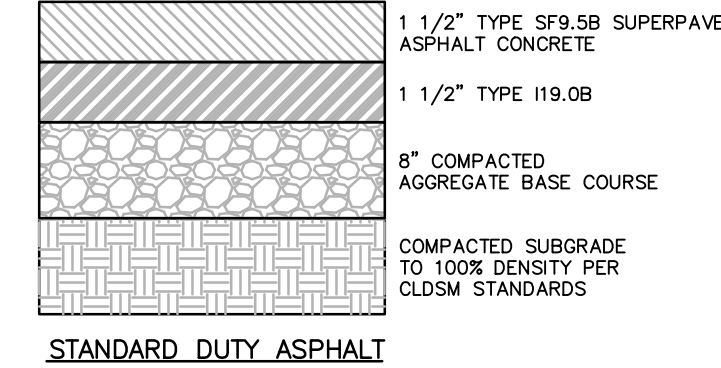
1
C9.1



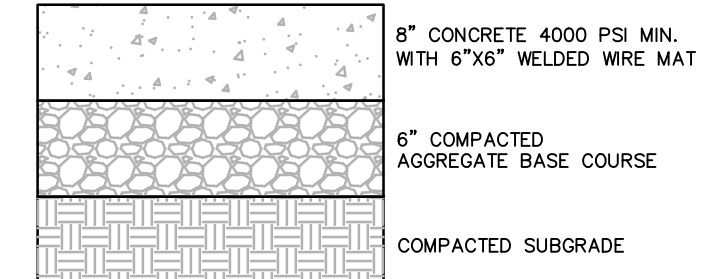
BOLLARD

-NTS-

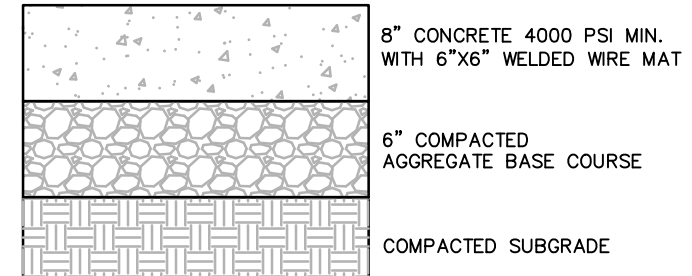
2
C9.1



STANDARD DUTY ASPHALT



CONCRETE FOR DUMPSTER PAD

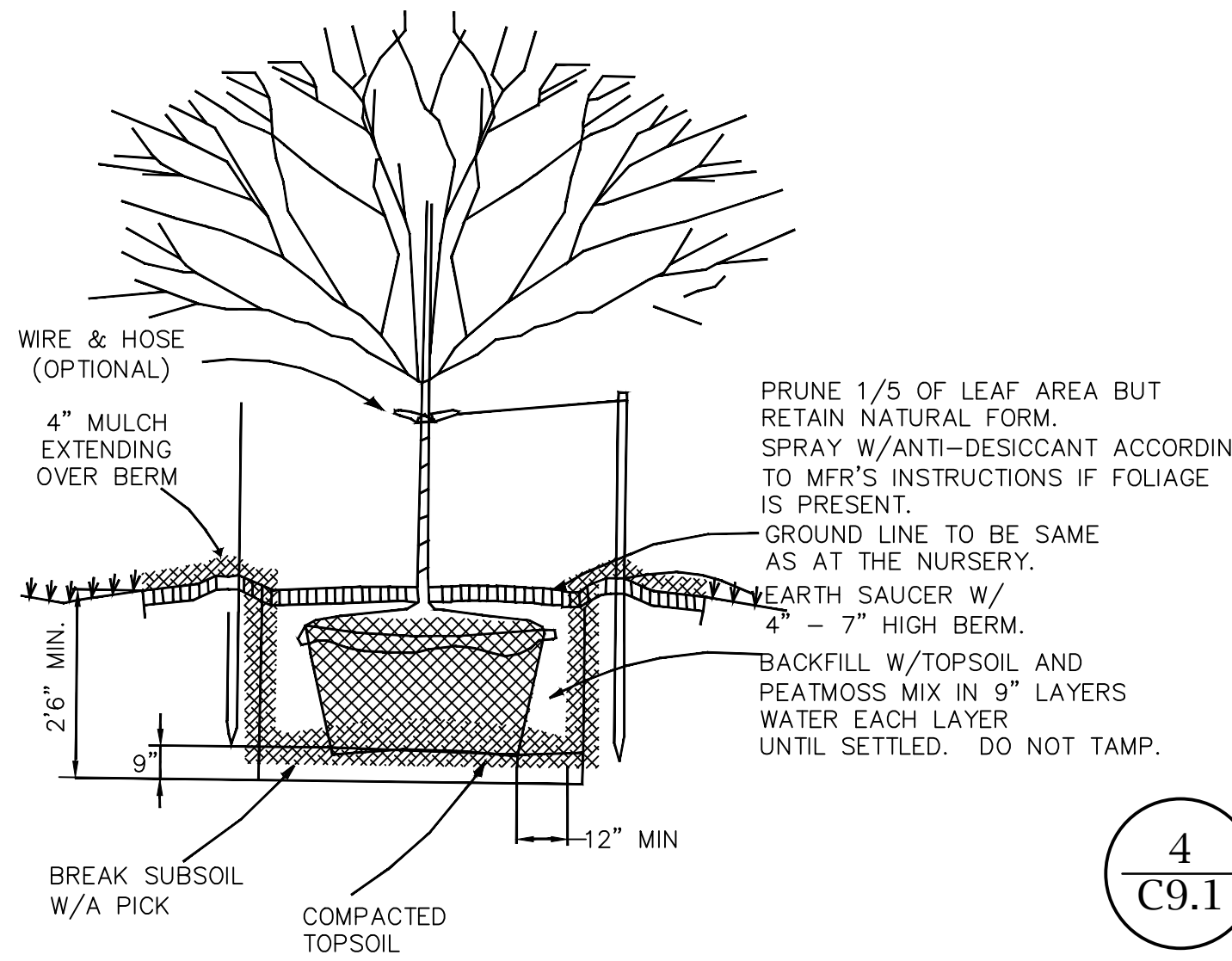


HEAVY DUTY CONCRETE FOR
DUMPSTER PAD

TYPICAL PAVEMENT SECTIONS

-NTS-

3
C9.1



- PRUNE 1/5 OF LEAF AREA BUT
RETAIN NATURAL FORM.
SPRAY W/ANTI-DESICCANT ACCORDING
TO MFR'S INSTRUCTIONS IF FOLIAGE
IS PRESENT.
GROUND LINE TO BE SAME
AS AT THE NURSERY.
EARTH SAUCER W/
4" - 7" HIGH BERM.
BACKFILL W/TOPSOIL AND
PEATMOSS MIX IN 9" LAYERS
WATER EACH LAYER
UNTIL SETTLED. DO NOT TAMP.

4
C9.1

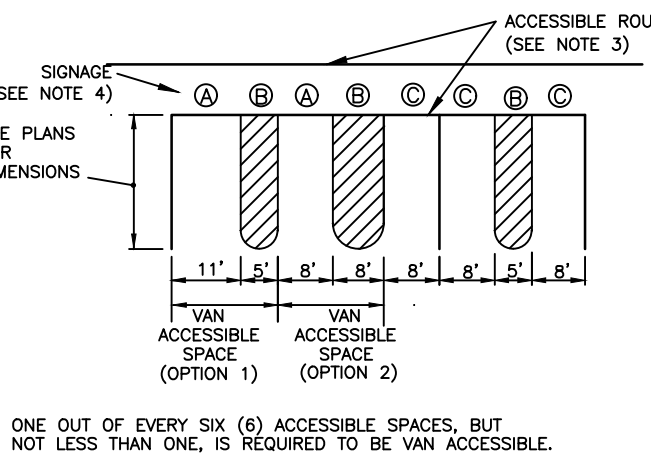
APPROVED DATE _____

ACCESSIBLE PARKING REQUIREMENTS

TOTAL PARKING SPACES PROVIDED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED TO BE VAN ACCESSIBLE
1 TO 25	1	1
26 TO 50	2	1
51 TO 75	3	1
76 TO 100	4	1
101 TO 150	5	1
151 TO 200	6	1
201 TO 300	7	2
301 TO 400	8	2
401 TO 500	9	2
501 TO 1000	2% OF TOTAL	1 IN EVERY 8 ACCESSIBLE SPACES
1001 AND OVER	20 PLUS 1 FOR EACH 100 OVER 1000	

REFERENCE: SECTION 208 OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN

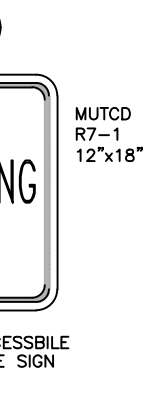
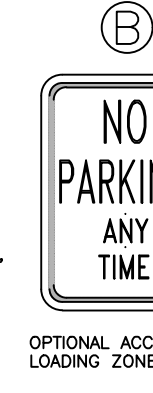
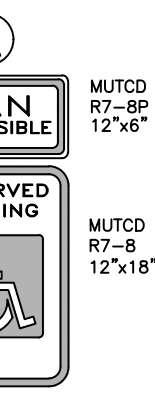
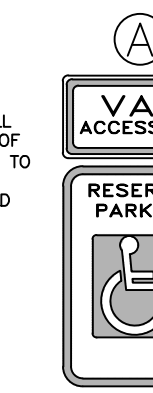
PARKING SPACE PAVEMENT MARKINGS



ONE OUT OF EVERY SIX (6) ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, IS REQUIRED TO BE VAN ACCESSIBLE.

NOTES:

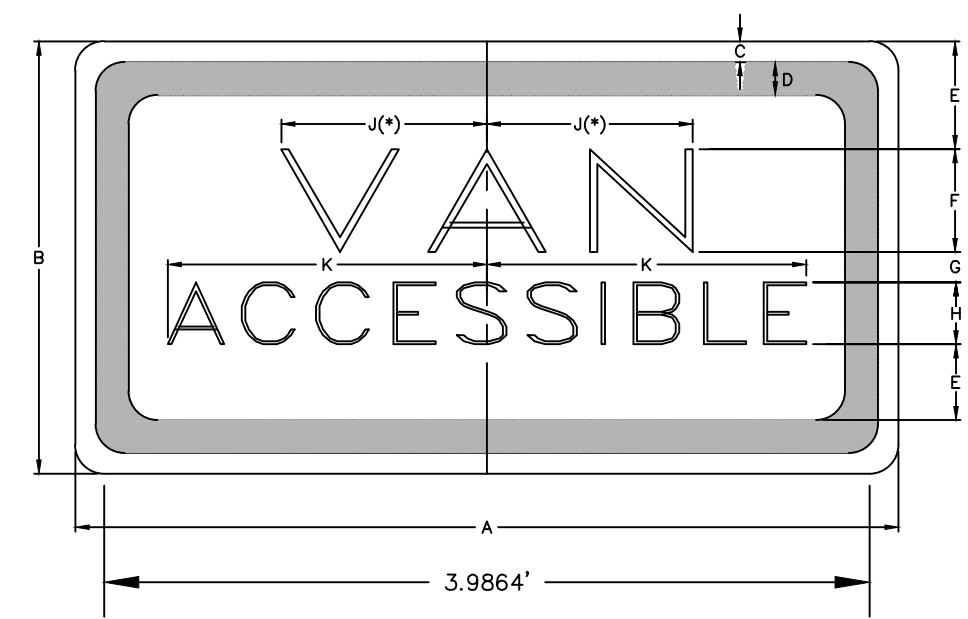
1. ALL 12"x18" ACCESSIBLE SIGNS (R7-8 & R7-1) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
2. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT.
3. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMP ARE REQUIRED AT LOADING ZONE AREA.
4. SIGNAGE MUST NOT OBSTRUCT ACCESSIBLE ROUTE OR RAMPS.



HANDICAP PARKING SIGNAGE

-NTS-

5
C9.1



R7-8P DIMENSIONS (INCHES)										
A	B	C	D	E	F	G	H	J	K	L
12	6	3/8	3/8	1-1/2	1-1/20	1/2	10	2-1/2	4	1-1/2

- * INCREASE SPACING 50%
- D-FHWA (FEDERAL HIGHWAY ADMINISTRATION/USDOT)
- SERIES D LETTERS

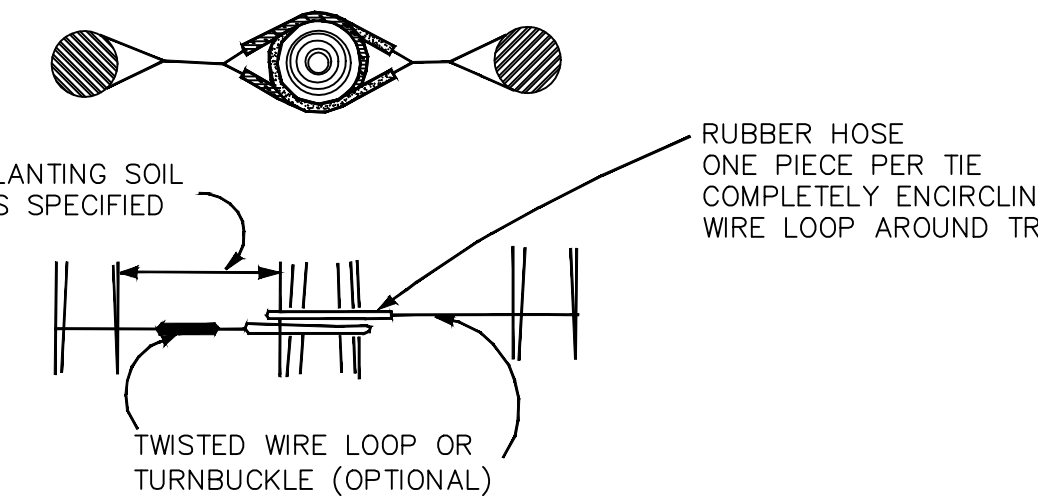
LEGEND AND BORDER - GREEN
BACKGROUND - WHITE

SUPPLEMENTAL ACCESSIBLE SIGN

-NTS-

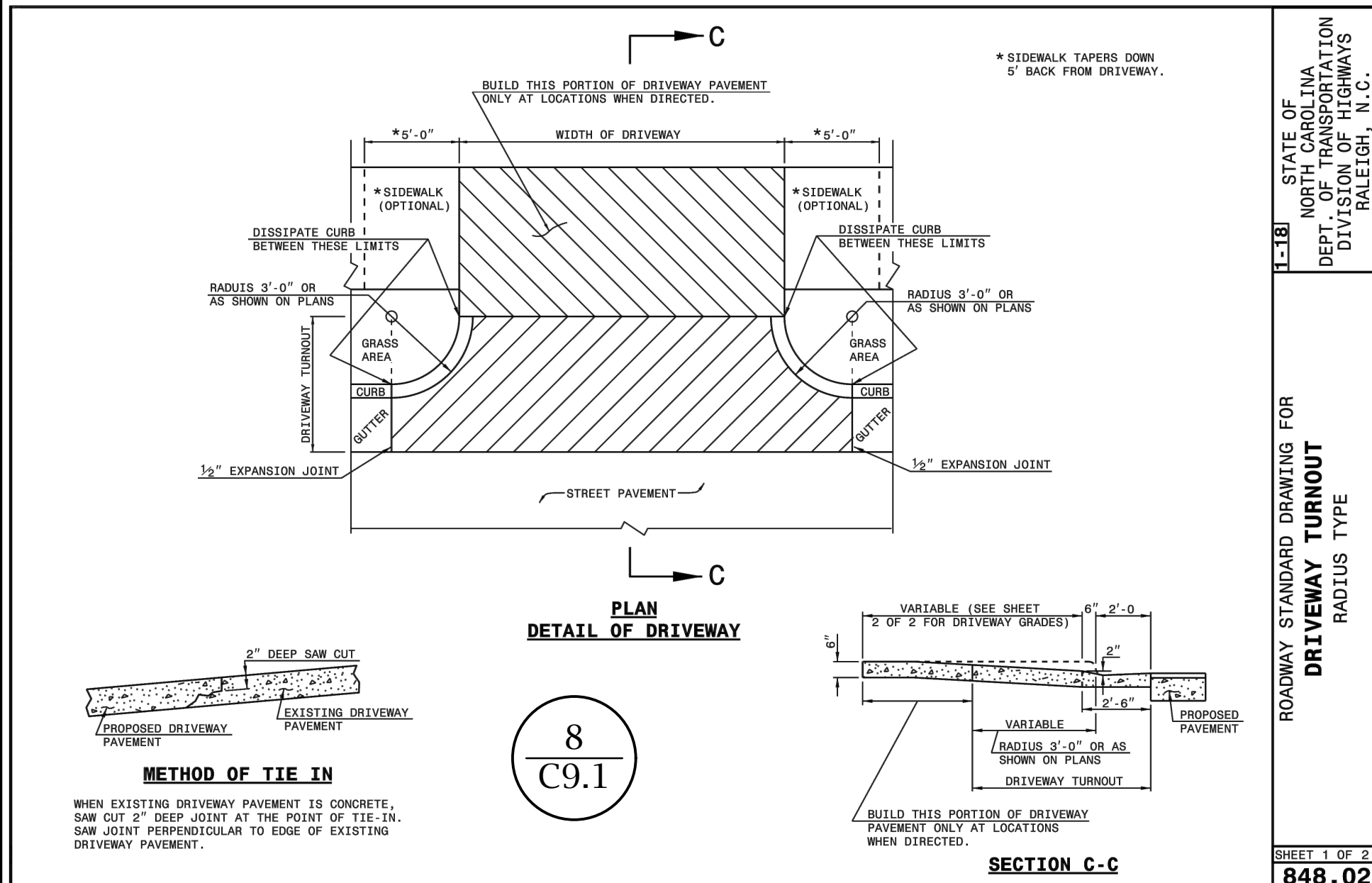
6
C9.1

NOTE: USE ANCHOR INSTEAD OF STAKES
TREES OVER 3" CAULIPER



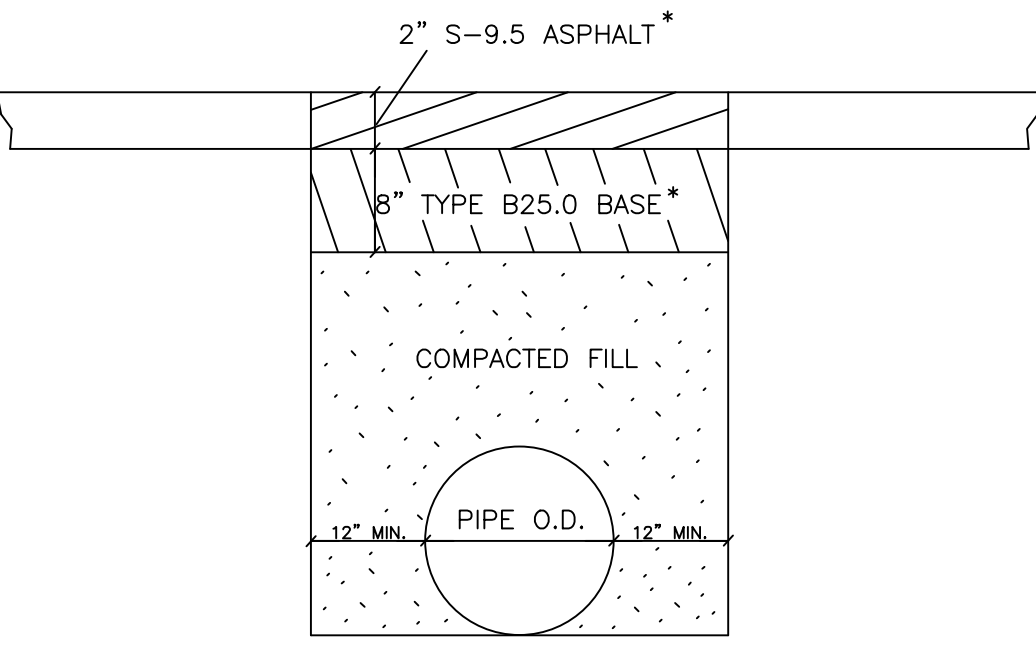
RUBBER HOSE
ONE PIECE PER TIE
COMPLETELY ENCIRCLING
WIRE LOOP AROUND TREE

APPROVED DATE _____



8
C9.1

SECTION C-C

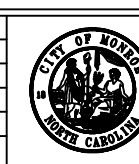


PAVEMENT REPAIR OF UTILITY CUTS

*REFER TO DETAIL 02.01.13
FOR ASPHALT TYPE

9
C9.1

REVISIONS		
NO.	DATE	DESCRIPTION

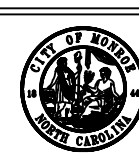


TYPICAL TREE PLANTING

CITY OF MONROE
UNION COUNTY NORTH CAROLINA
PREPARED BY:
ENGINEERING DEPARTMENT

FILE: I:\Maps-Detail\Detail Manual Details
DRAWN BY: JAM DATE: 08-07-01
CHECKED BY: JNL SCALE: N.T.S.
DETAIL 06.01.01

REVISIONS		
NO.	DATE	DESCRIPTION

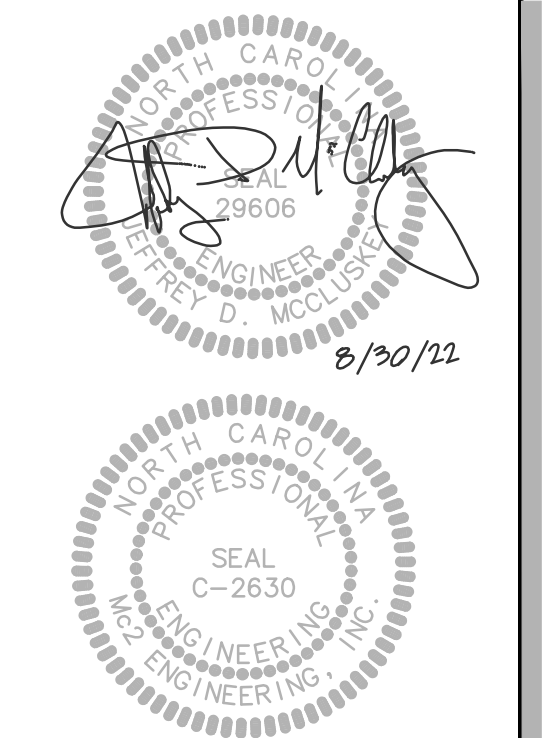


TREE STAKING

CITY OF MONROE
UNION COUNTY NORTH CAROLINA
PREPARED BY:
ENGINEERING DEPARTMENT

FILE: I:\Maps-Detail\Detail Manual Details
DRAWN BY: JAM DATE: 08-07-01
CHECKED BY: JNL SCALE: N.T.S.
DETAIL 06.01.02

Mc²
ENGINEERING
Mc² ENGINEERING, INC., 400
2110 BELLEVILLE RD., SUITE 200
CHARLOTTE, NC 28262
PHONE 704.510.9797



THE DESIGNS AND DRAWINGS SHOWN ARE THE PROPERTY OF
Mc² ENGINEERING, INC. REPRODUCTION OR USE FOR ANY
PURPOSE OTHER THAN THAT AUTHORIZED BY Mc² ©
ENGINEERING, INC. IS PROHIBITED. 0021

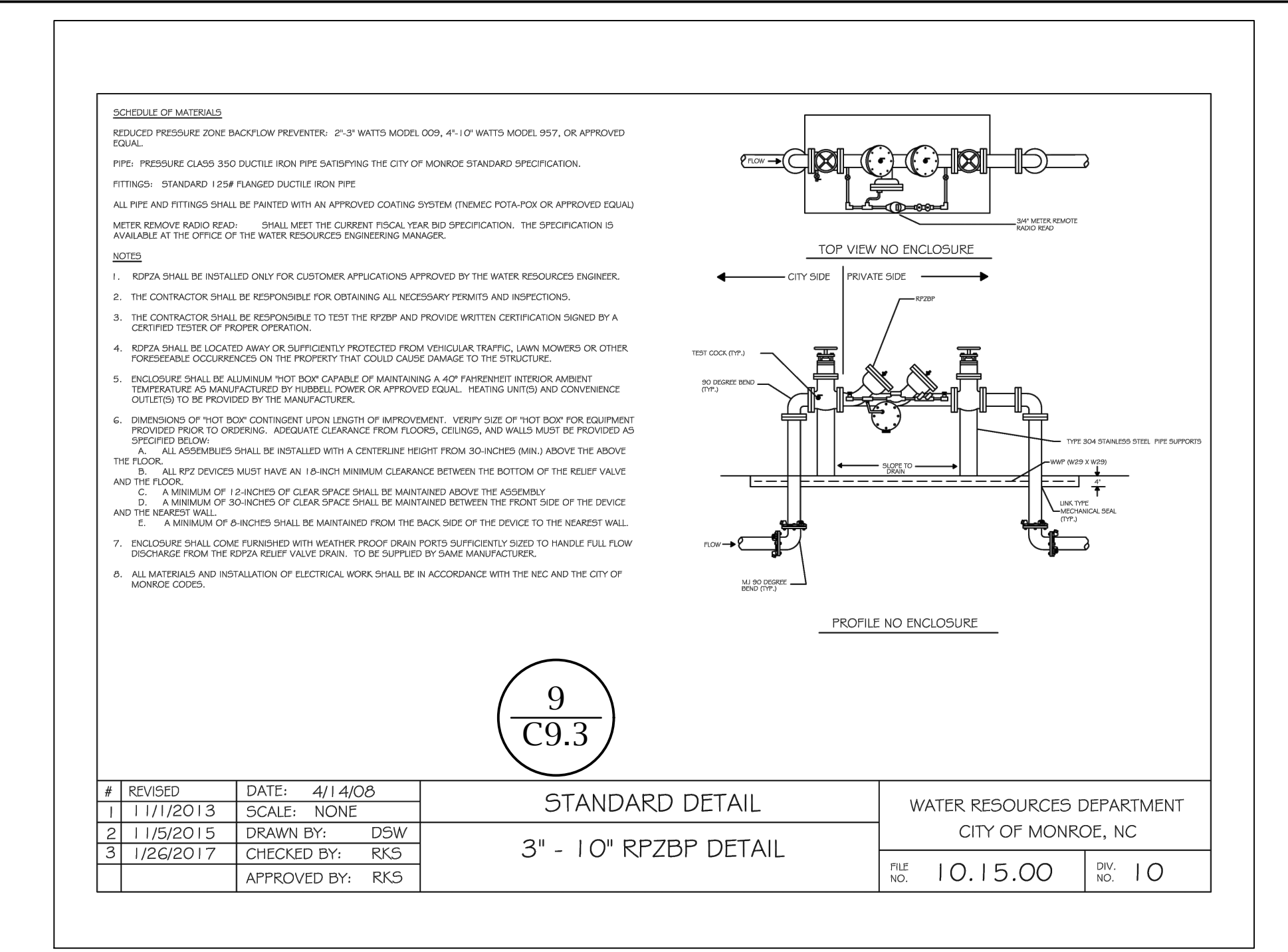
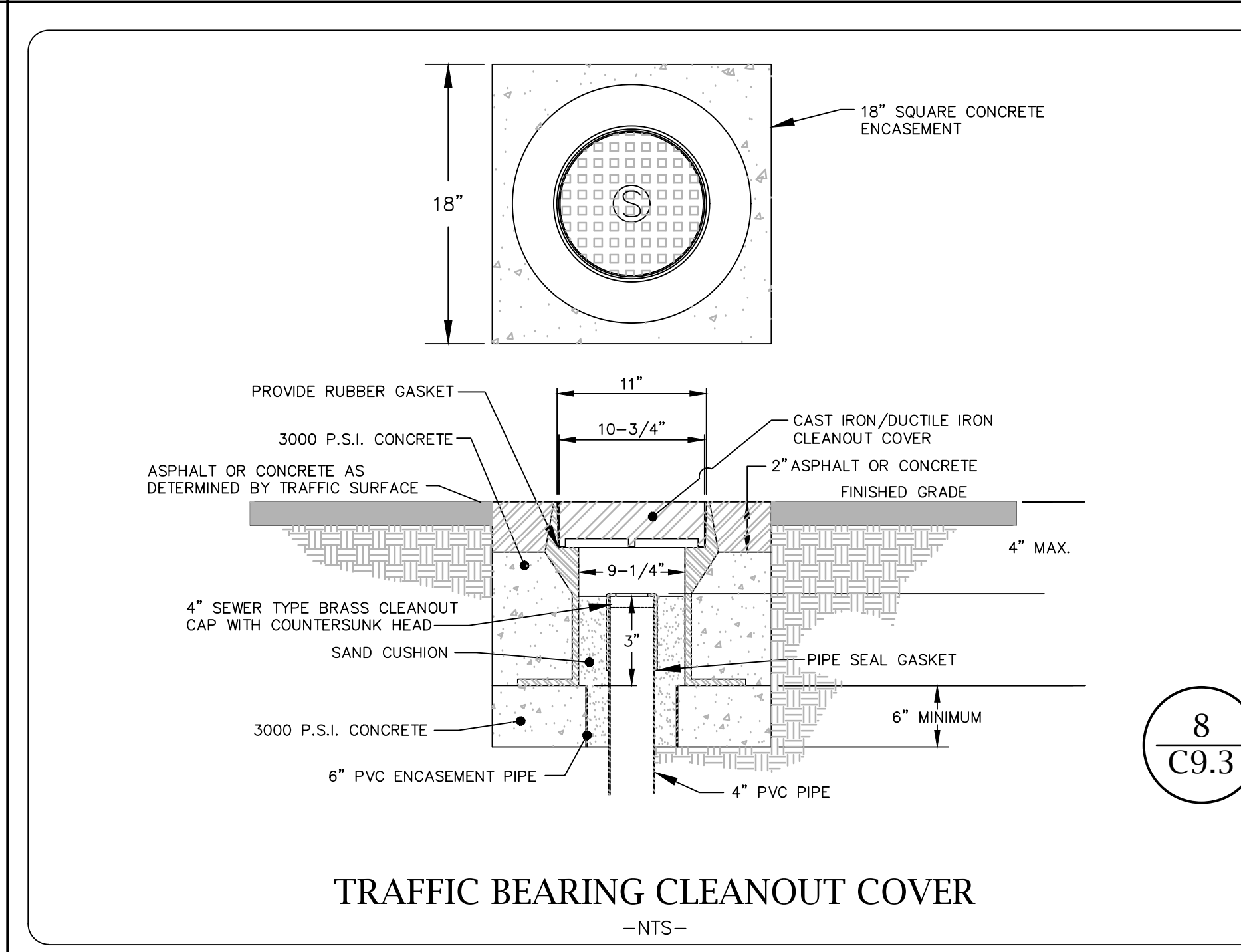
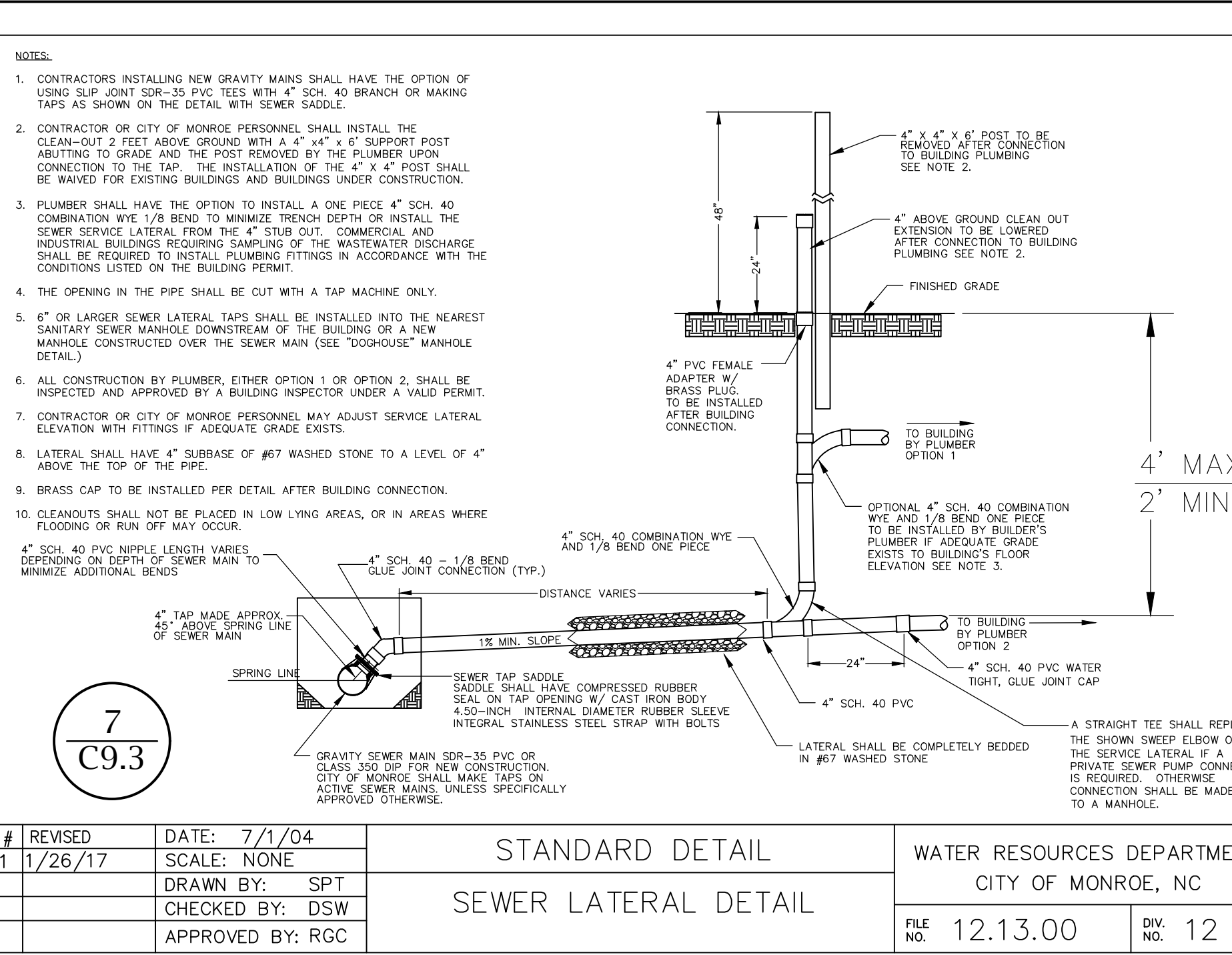
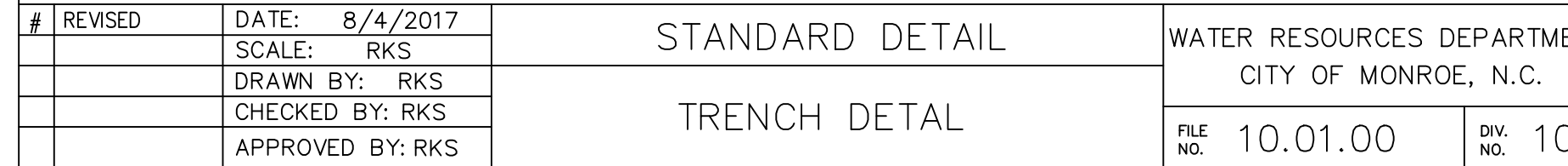
AY CARAMBA
FAMILY RESTAURANT
2525 CUTHBERTSON ROAD
WAXHAW, NC 28173

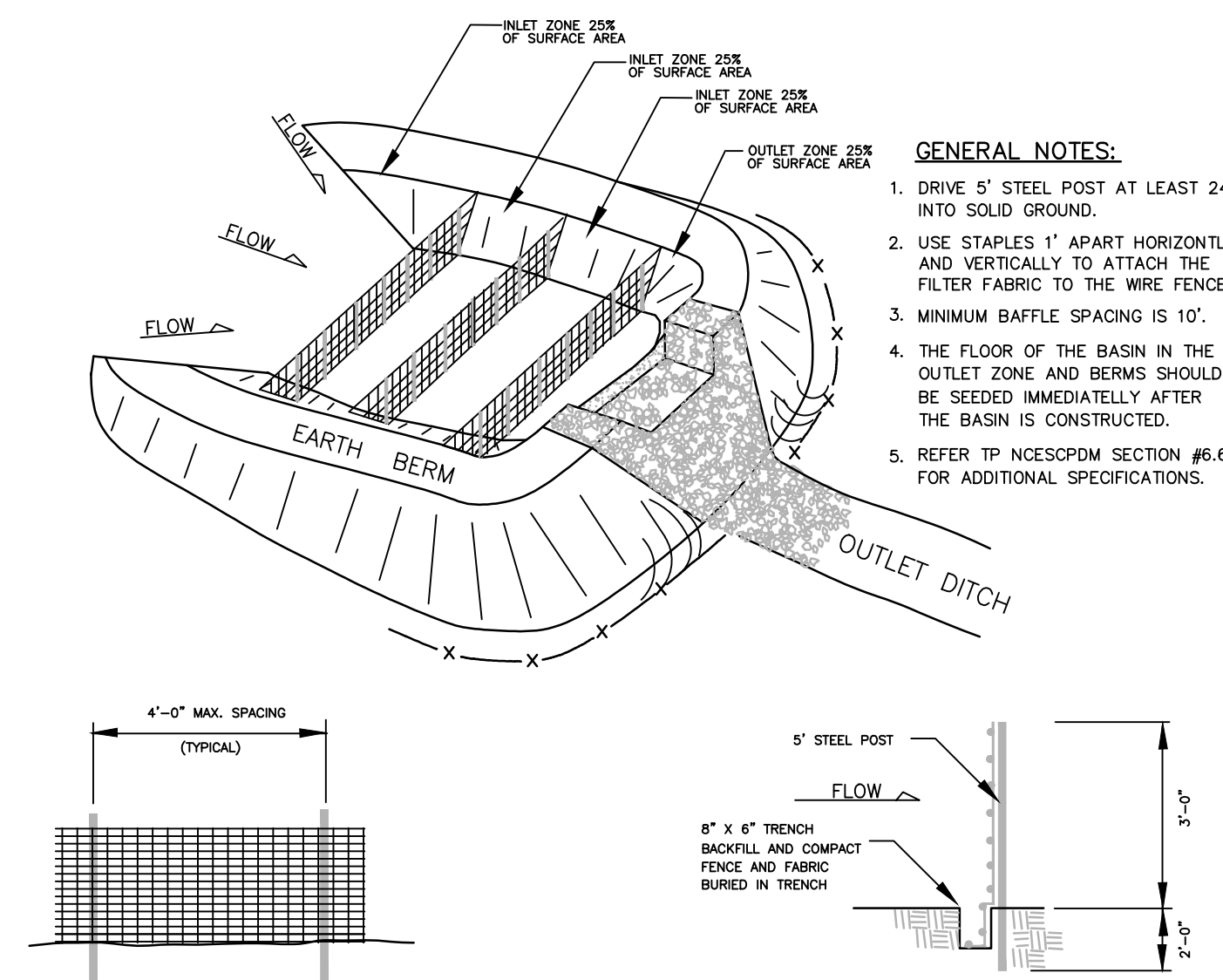
SITE
DETAILS

REVISIONS		
4	2/21/23	MONROE STORMWATER

CAD FILE: 22-008 BASE.DWG
PROJECT NO.: 22-008
DESIGNED BY: JDM
REVIEWED BY: JDM
DATE: JUNE 29, 2022

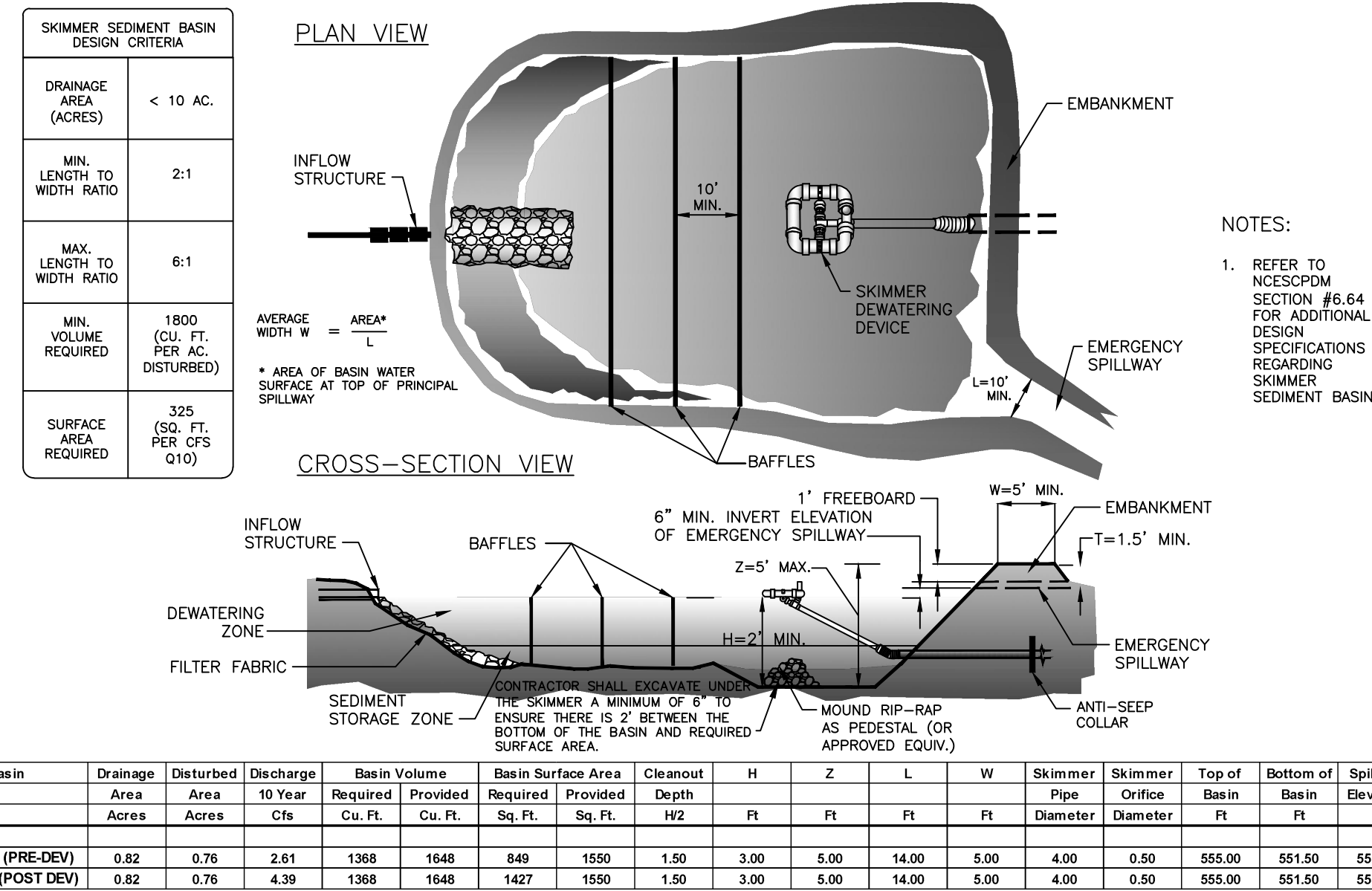
C9.1



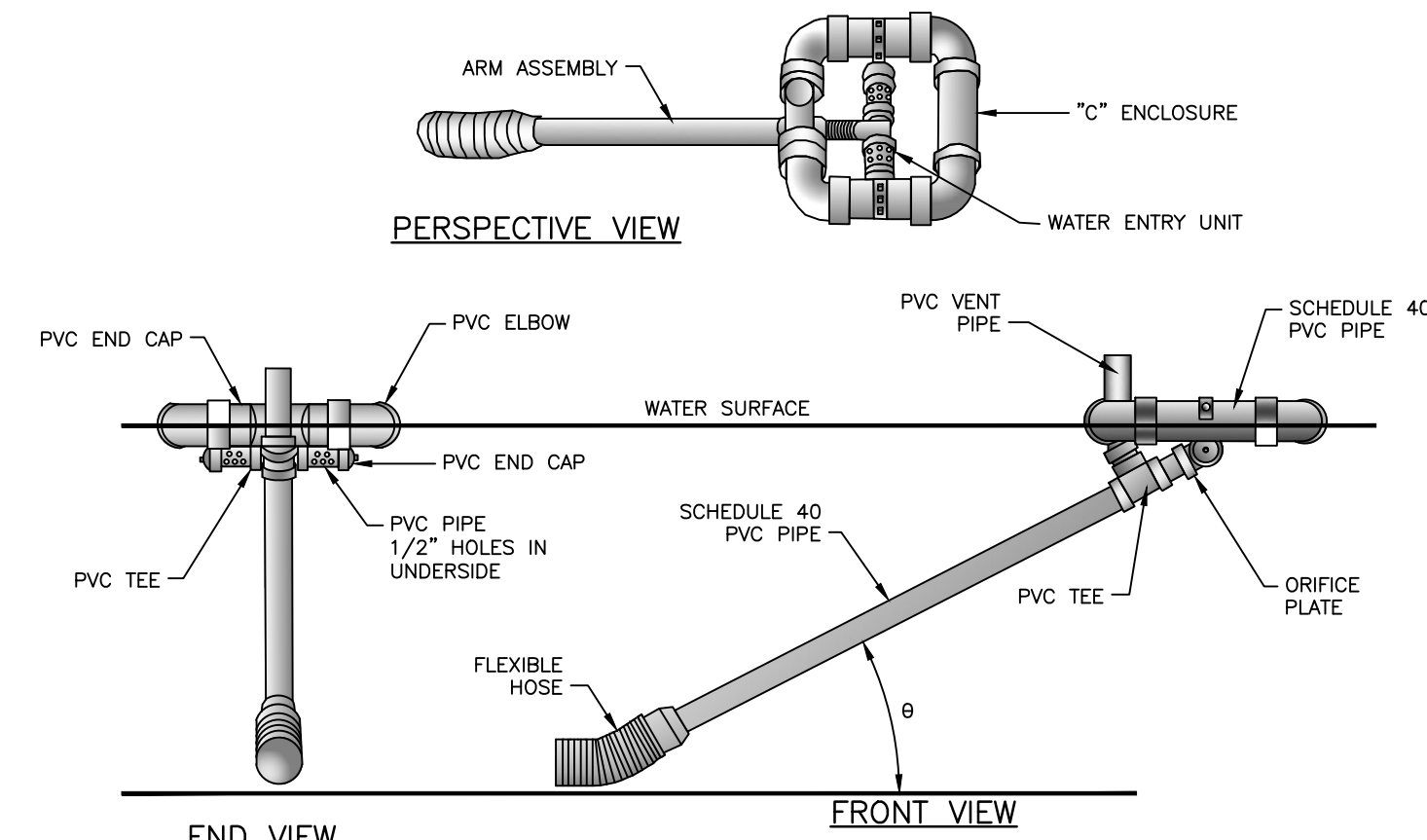


BAFFLE INSTALLATION

—NTS—



SKIMMER SEDIMENT BASIN
-NTS-



MAINTENANCE:

INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL. REMOVE SEDIMENT IMMEDIATELY. REMOVE SEDIMENT AND RETURN THE BASIN TO ITS ORIGINAL DESIGNING WHEN IT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT REMAINS ON THE OTHER SIDE OF THE FIRST BAFFLE. DO NOT ALLOW THE SKIMMER TO BE PULLED TO THE OTHER SIDE OF 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.

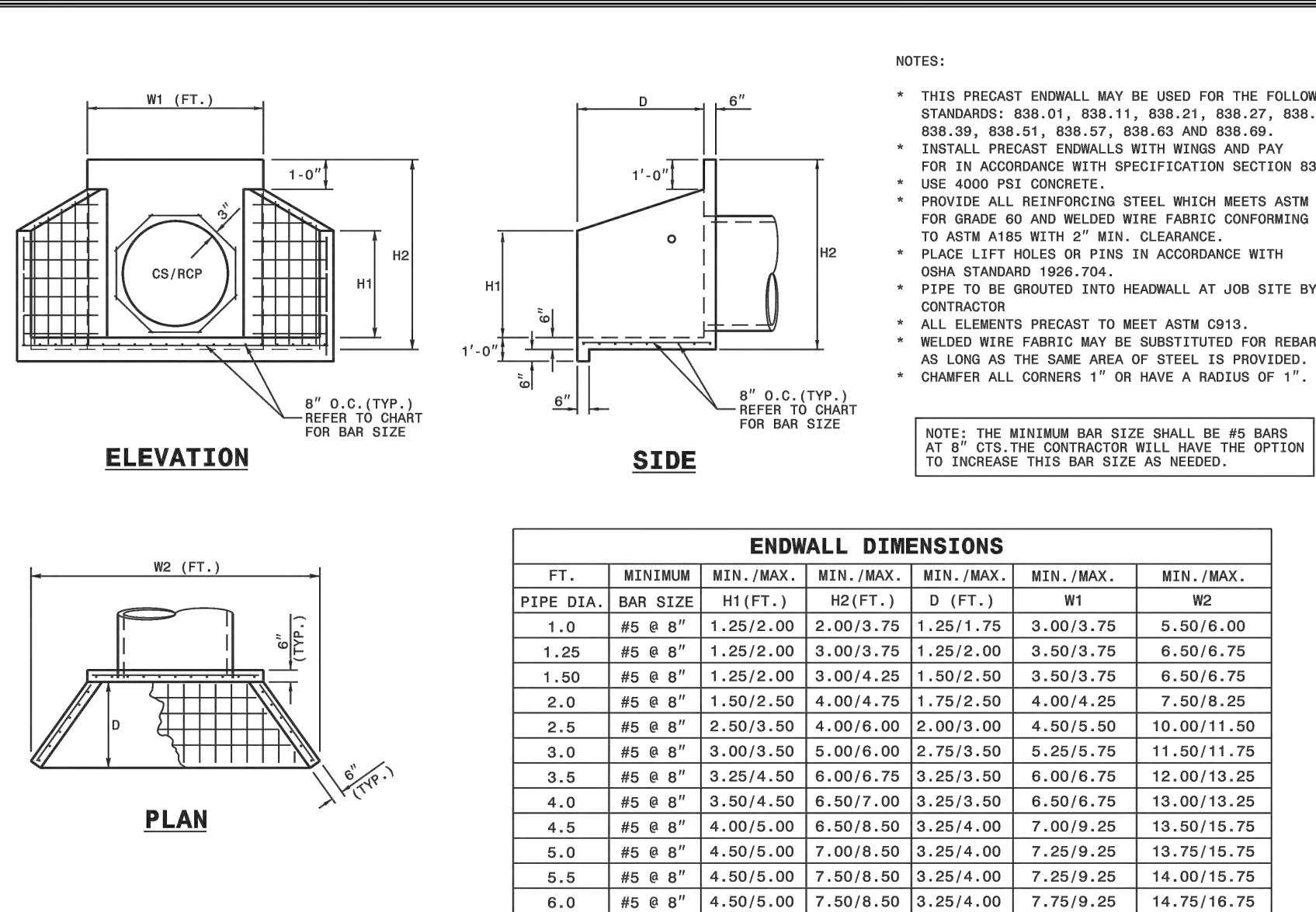
IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY EXCEEDING ONE FOOT, WALK TO THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORFICE INSIDE THE SKIMMER TO MAKE SURE IT IS NOT CLOGGED.

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

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

ICE FREEZING WATER 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.

SKIMMER
-NTS-



8388-8	SHEET 1 OF 8
ROADWAY STANDARD DRAWING FOR PRECAST CONCRETE ENDWALL FOR SINGLE 12" THRU 72" PIPE - 90° SKEW	
1-18	NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

ENDWALL DIMENSIONS								
FT.	MINIMUM	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.
PIPE DIA.	BAR SIZE	H1 (FT.)	H2 (FT.)	D (FT.)	W1	W2		
1.0	#5 8" E	1.125/0.21	2.00/0.75	1.125/1.75	3.00/3.75	5.50/6.00		
1.25	#5 8" E	1.252/0.20	3.00/3.75	1.252/2.00	3.50/3.75	6.50/6.75		
1.50	#5 8" E	1.252/0.20	3.00/4.25	1.50/2.50	3.50/3.75	6.50/6.75		
2.0	#5 8" E	2.50/0.50	4.00/4.75	1.75/2.50	4.00/4.50	7.50/8.25		
2.5	#5 8" E	1.50/3.50	4.00/6.00	2.00/3.00	4.50/5.50	10.00/11.50		
3.0	#5 8" E	3.50/3.50	5.50/6.00	2.75/3.50	5.25/5.75	11.50/11.75		
3.5	#5 8" E	3.50/3.50	5.50/6.00	2.75/3.50	5.25/5.75	12.00/12.00		
4.0	#5 8" E	3.00/4.50	8.50/7.00	3.25/3.50	5.50/6.75	13.00/13.25		
4.5	#5 8" E	4.00/5.00	8.50/8.50	3.25/4.00	7.00/9.25	13.50/15.75		
5.0	#5 8" E	4.50/5.00	7.00/8.50	3.25/4.00	7.25/9.25	13.75/15.75		
5.5	#5 8" E	4.50/5.00	7.50/8.50	3.25/4.00	7.25/9.25	14.00/15.75		
6.0	#5 8" E	4.50/5.00	7.50/8.50	3.25/4.00	7.75/9.25	14.75/16.75		

SHEET 1 OF 1
838.8

INTENTIONALLY LEFT BLANK

INTENTIONALLY LEFT BLANK

INTENTIONALLY LEFT BLANK

INTENTIONALLY LEFT BLANK

INTENTIONALLY LEFT BLANK

SITE DETAILS

[illegible]

CAD FILE:	22-008 BASE.DWG
PROJECT NO.:	22-008
DESIGNED BY:	JDM
REVIEWED BY:	JDM
DATE:	JUNE 29, 2022

C9.4