



**McADAMS**

The John R. McAdams Company, Inc.  
2905 Meridian Parkway  
Durham, NC 27713

phone 919. 361. 5000  
fax 919. 361. 2269  
license number: C-0293, C-187

www.mcadamsco.com

**CLIENT**

REFUEL OPERATING COMPANY, LLC  
547 LONG POINT RS, SUITE 103  
MT. PLEASANT, SC 29464  
Ryan Robinson, PMP  
PHONE: 843. 388. 4966



**STARPOINT - REFUEL MARKET  
CONDITIONAL ZONING PERMIT  
1950 US HWY 15-501 N  
CHAPEL HILL, NC 27516**



**REVISIONS**

NO.	DATE

**PLAN INFORMATION**

PROJECT NO.	RFM-21002
FILENAME	RFM21002-SS1
CHECKED BY	SJC
DRAWN BY	LJL
SCALE	1" = 20'
DATE	09.23.2022

**SHEET**

**STEEP SLOPES PLAN**

**C1.02**

**STEEP SLOPE LEGEND**

- SLOPES 0% - 10% (1.02 AC) (44,438 SF)
- SLOPES 10% - 15% (0.05 AC) (2,108 SF)
- SLOPES 15% - 25% (0.03 AC) (1,385 SF)
- SLOPES >25% (0.04 AC) (1,945 SF)
- MANMADE SLOPES >25% (0.04 AC) (1,945 SF)



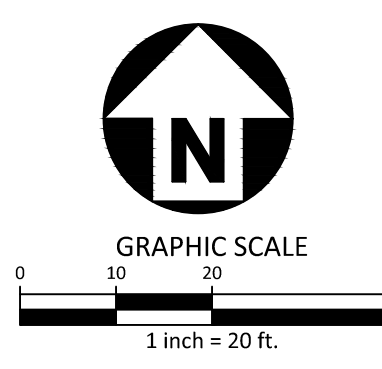
N/F  
CLIFTON M. AND MIRIAM K. NIXON  
PIN: 9776680339  
1715 SMITH LEVEL ROAD  
PB 4, PG 23  
DB 4393, PG 332

N/F  
GORDON N. MITCHELL  
PIN: 9776681259  
1930 US 15-501 SOUTH  
PB 4, PG 23  
DB 269, PG 1043

STARPOINT GROUP PARTNERSHIP  
PIN: 9776680129  
1950 US 15-501 SOUTH  
PB 4, PG 23  
DB 564, PG 607  
48,501 SQFT, 1.11 AC

SEE SHEET C0.00 FOR ALL PROJECT, SITE,  
GRADING, STORM DRAINAGE AND UTILITY  
NOTES

ALL CONSTRUCTION SHALL BE IN  
ACCORDANCE WITH THE CURRENT TOWN  
OF CHAPEL HILL, NCDOT, OWASA, AND  
ORANGE COUNTY ENGINEERING DESIGN  
AND CONSTRUCTION STANDARDS



PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



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CHAPEL HILL, NC 27516



**REVISIONS**

NO. DATE

**PLAN INFORMATION**

PROJECT NO. RFM-21002  
FILENAME RFM21002-51  
CHECKED BY SJC  
DRAWN BY WHM  
SCALE 1" = 20'  
DATE 09.23.2022

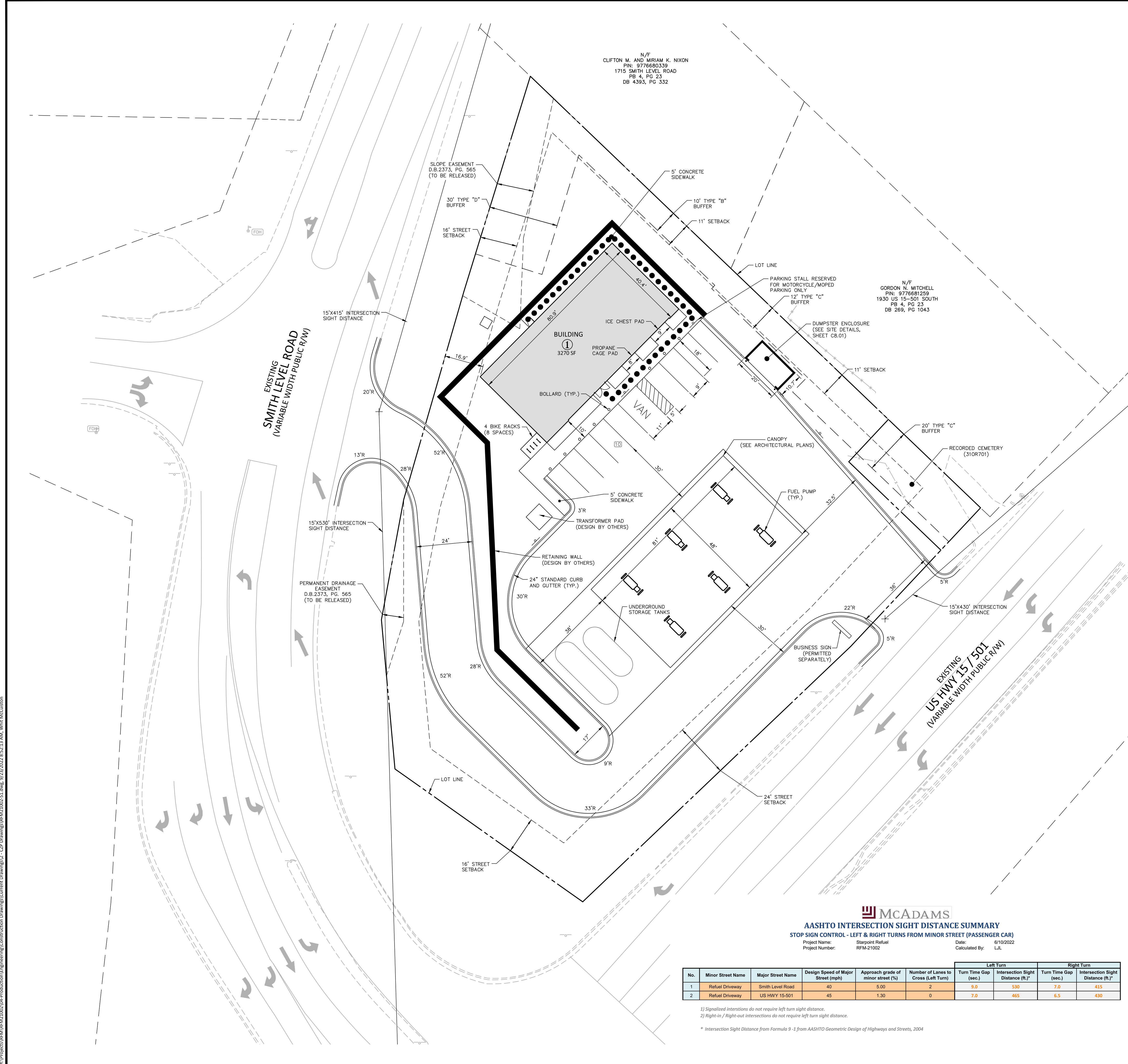
**SHEET**

**SITE PLAN**

**C2.00**

**SITE LEGEND**

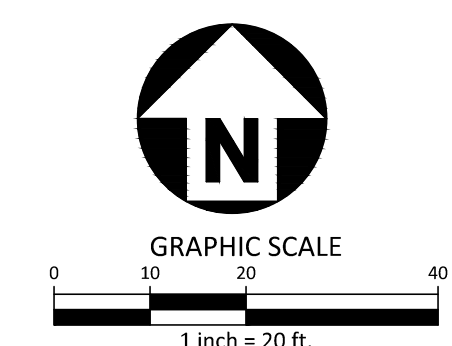
	SIGNAGE
	YARD LIGHTS
	LIGHT POLE
	POWER POLE
	TRAFFIC DIRECTIONAL ARROW
	ACCESSIBLE PARKING STALL
	VAN ACCESSIBLE PARKING STALL
	PARKING SPACE COUNT
	ACCESSIBLE RAMPS
	ACCESSIBLE ROUTE
	PHASE LINE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	EASEMENT LINE
	CENTERLINE



**AASHTO INTERSECTION SIGHT DISTANCE SUMMARY**  
STOP SIGN CONTROL - LEFT & RIGHT TURNS FROM MINOR STREET (PASSENGER CAR)

No.	Minor Street Name	Major Street Name	Design Speed of Major Street (mph)	Approach grade of minor street (%)	Number of Lanes to Cross (Left Turn)	Left Turn		Right Turn	
						Turn Time Gap (sec.)	Intersection Sight Distance (ft.) <sup>1)</sup>	Turn Time Gap (sec.)	Intersection Sight Distance (ft.) <sup>1)</sup>
1	Refuel Driveway	Smith Level Road	40	5.00	2	9.0	530	7.0	415
2	Refuel Driveway	US HWY 15-501	45	1.30	0	7.0	465	6.5	430

1) Signalized intersections do not require left turn sight distance.  
2) Right-in / Right-out intersections do not require left turn sight distance.  
\* Intersection Sight Distance from Formula 9-3 from AASHTO Geometric Design of Highways and Streets, 2004

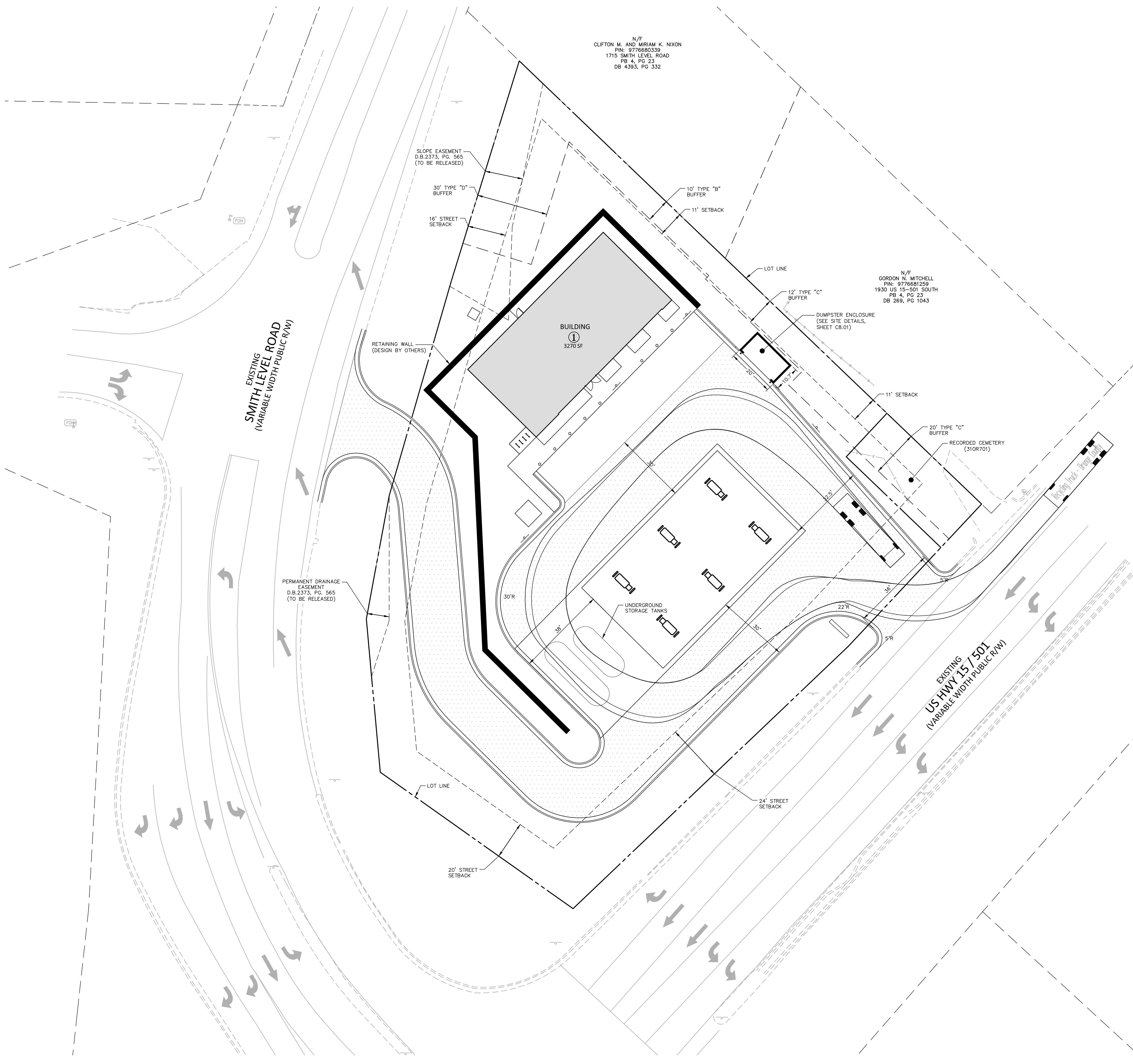


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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

I:\Projects\RFM\RFM21002\04-Production\Engineering\Construction Drawings\1 - CIP Drawing\RFM21002-51.dwg, 9/23/2022 8:52:13 AM, Whit McCutcheon

I:\Projects\RFM\RFM21002\Production\Engineering\Construction Drawings\2 - CDP Drawing\RFM21002-SWST1.dwg, 9/23/2022 8:53:12 AM, WHM\ACadison



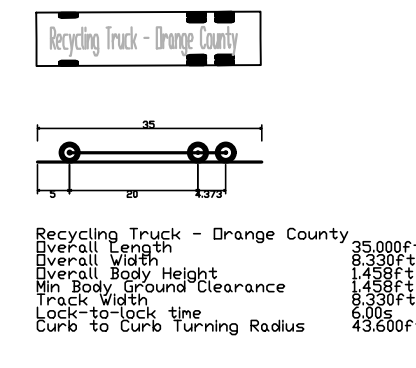
N/F  
 CLIFTON M. AND MIRIAM K. NIXON  
 PIN: 977680339  
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 PB 4, PG 23  
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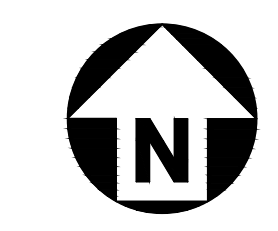
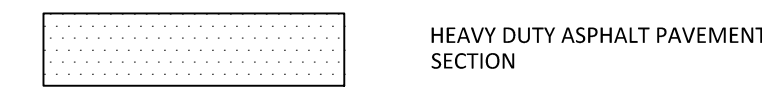
**GENERAL SOLID WASTE AND RECYCLING NOTES:**

- ALL EXISTING STRUCTURES 500 SQUARE FEET AND LARGER IN SIZE SHALL BE ASSESSED PRIOR TO DEMOLITION TO ENSURE COMPLIANCE WITH THE COUNTY'S REGULATED RECYCLABLE MATERIALS ORDINANCE (RRMO) AND TO ASSESS THE POTENTIAL FOR DE-CONSTRUCTION AND/OR THE RE-USE OF SALVAGEABLE MATERIALS.
- BY ORANGE COUNTY ORDINANCE, CLEAN WOOD WASTE, SCRAP METAL, AND CORRUGATED CARDBOARD PRESENT IN CONSTRUCTION OR DEMOLITION WASTE MUST BE RECYCLED.
- BY ORANGE COUNTY ORDINANCE, ALL HAULERS OF MIXED CONSTRUCTION AND DEMOLITION WASTE THAT INCLUDES ANY REGULATED RECYCLABLE MATERIALS SHALL BE LICENSED BY ORANGE COUNTY.
- PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE THE APPLICANT SHALL HOLD A PRE-DEMOLITION/PRE-CONSTRUCTION CONFERENCE WITH THE SOLID WASTE STAFF (919-968-2788). THIS MAY BE THE SAME PRE-CONSTRUCTION MEETING HELD WITH OTHER DEVELOPMENT/ENFORCEMENT OFFICIALS.
- THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS (ACM) AND/OR OTHER HAZARDOUS MATERIALS IN CONSTRUCTION AND DEMOLITION WASTE SHALL BE HANDLED IN ACCORDANCE WITH ANY AND ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND GUIDELINES.
- IF ANY VEHICLES ARE PARKED IN THE REFUSE OR RECYCLABLES COLLECTION VEHICLE ACCESS AREA, THE CONTAINERS WILL NOT RECEIVE SERVICE UNTIL THE NEXT SCHEDULED COLLECTION DAY.
- THE OWNER, OR THEIR DESIGNEE, SHALL BE RESPONSIBLE FOR MAINTAINING A FIRE WATCH DURING CONSTRUCTION AND DEMOLITION WHERE MATERIALS SUBJECT TO SPONTANEOUS COMBUSTION OR OTHER HAZARDOUS CONSTRUCTION OR DEMOLITION IS OCCURRING.
- ALL CONSTRUCTION AND DEMOLITION SHALL BE CONDUCTED IN COMPLIANCE WITH THE CURRENT EDITION OF CHAPTER 14 OF THE NC FPC.
- ITEMS TO BE RECYCLED WILL INCLUDE ALL MATERIALS ACCEPTED BY ORANGE COUNTY SOLID WASTE (INCLUDED BUT NOT LIMITED TO:):
  - 9.1.1. GLASS (CLEAR, BROWN AND GREEN)
  - 9.1.2. PLASTIC
  - 9.1.3. NEWSPAPERS, MAGAZINES AND OTHER PAPER
  - 9.1.4. METAL CANS
  - 9.1.5. CARDBOARD
- ADEQUATE SITE LIGHTING SHALL BE PROVIDED IN/AROUND THE SOLID WASTE AND RECYCLING STORAGE AREAS.
- HEAVY DUTY ASPHALT AND CONCRETE SECTIONS ARE PROVIDED ON SHEET C2.01. THESE SECTIONS APPLY UNLESS OTHERWISE INSTRUCTED BY THE GEOTECHNICAL ENGINEER.

**TRUCK DIMENSIONS:**



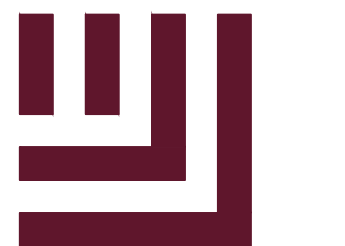
**PAVEMENT LEGEND:**



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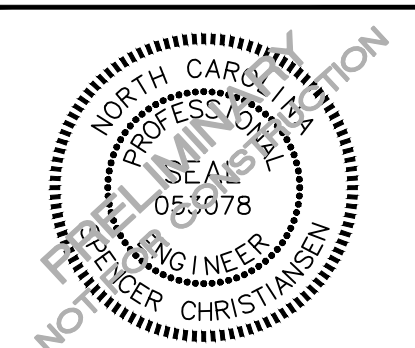
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**STARPOINT - REFUEL MARKET**  
**CONDITIONAL ZONING PERMIT**  
 1950 US HWY 15-501 N  
 CHAPEL HILL, NC 27516



**REVISIONS**

NO. DATE

**PLAN INFORMATION**

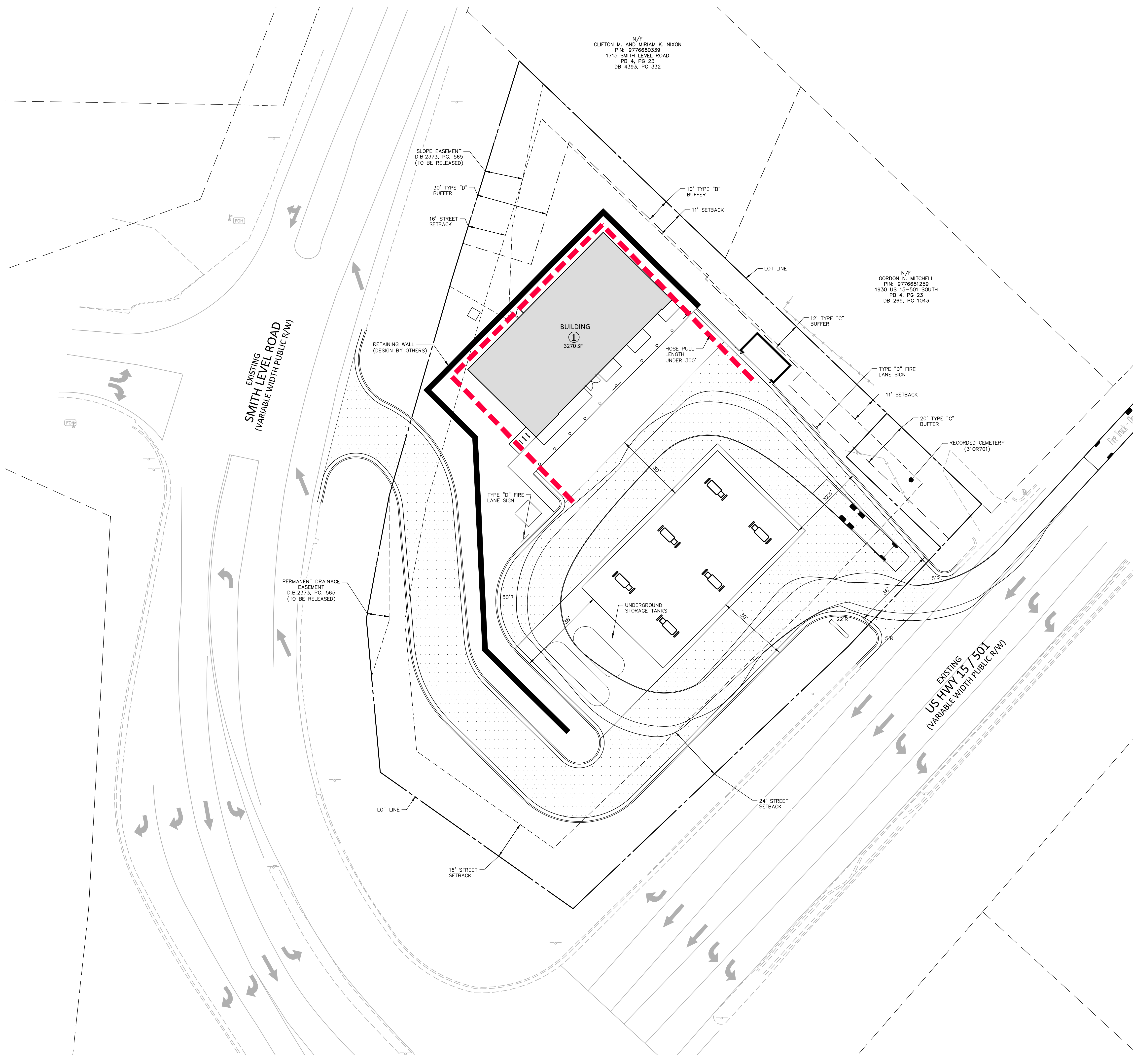
PROJECT NO. RFM-21002  
 FILENAME RFM21002-SWST1  
 CHECKED BY SJC  
 DRAWN BY WHM  
 SCALE 1" = 20'  
 DATE 09.23.2022

**SHEET**

**SOLID WASTE PLAN**

**C2.01**

M:\Projects\RFM\RFM21002\04-Production\Engineering\Construction Drawings\2 - CIP Drawing\RFM21002-FP1.dwg, 9/23/2022 8:54:08 AM, WHM, McAdams



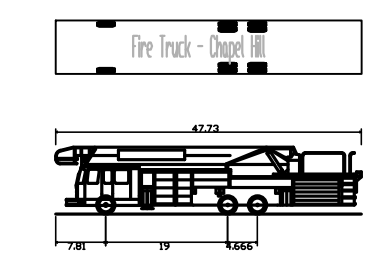
**GENERAL NOTES:**  
1. OUTER PATH IS TRUCK OVERHANG, INNER PATH IS TIRE TRACKING



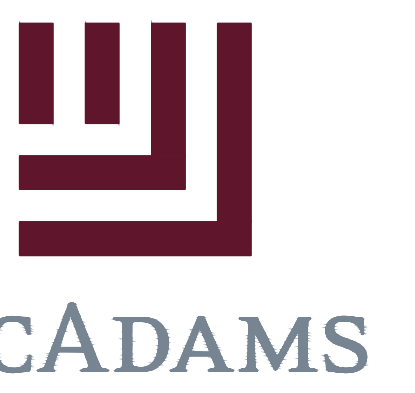
12"x18"

**PAVEMENT LEGEND:**  
HEAVY DUTY ASPHALT PAVEMENT SECTION

**TRUCK DIMENSIONS:**



Fire Truck - Chapel Hill  
Overall Length 43.330ft  
Overall Width 8.500ft  
Overall Height 10.000ft  
Wheelbase 12.000ft  
Pin Body Ground Clearance 4.000ft  
Track Width 8.000ft  
CGH to CGH Turning Radius 40.000ft



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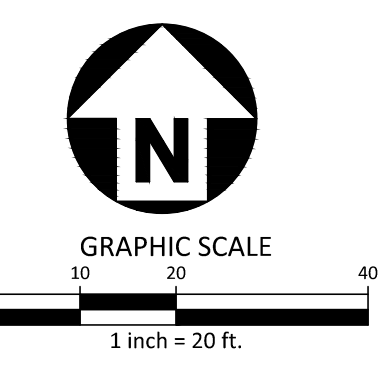


**REVISIONS**  
NO. DATE

**PLAN INFORMATION**  
PROJECT NO. RFM-21002  
FILENAME RFM21002-FP1  
CHECKED BY SJC  
DRAWN BY WHM  
SCALE 1" = 20'  
DATE 09.23.2022

**SHEET**  
FIRE PROTECTION PLAN

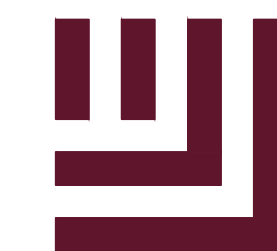
**C2.02**



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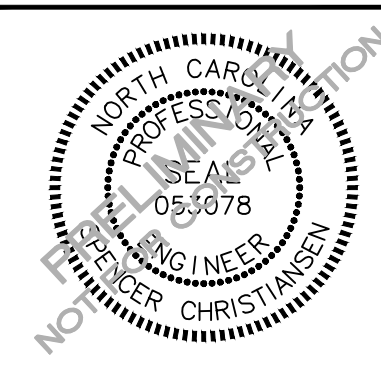
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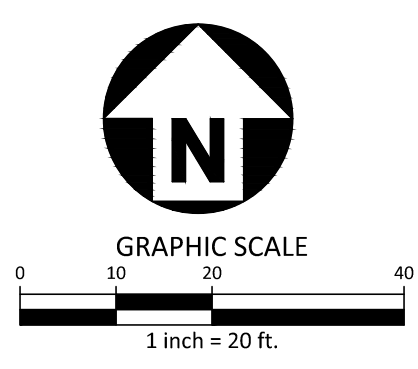
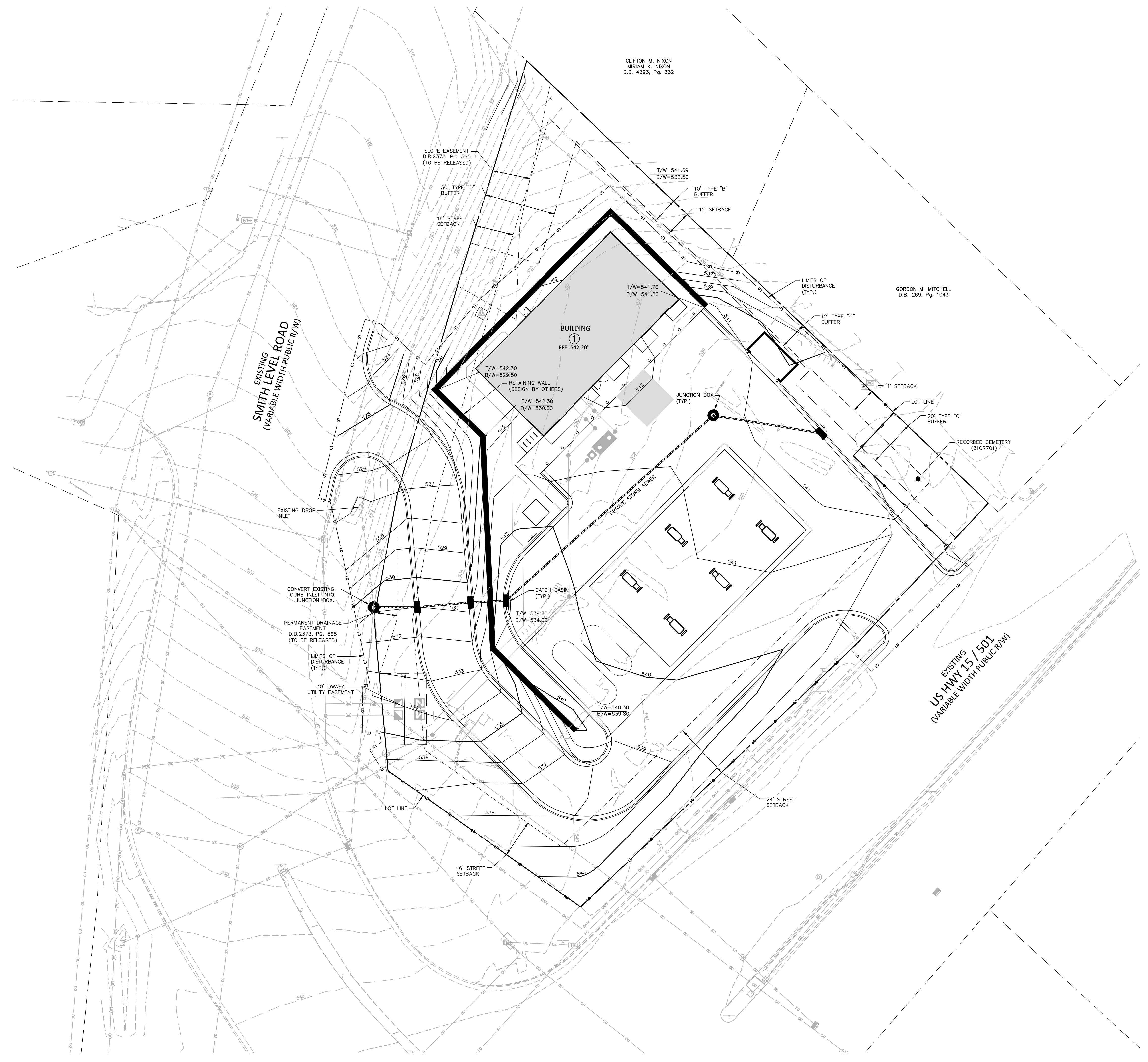


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1950 US HWY 15-501 N  
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**GRADING LEGEND**

	FLARED END SECTION
	ENDWALL SECTION
	CATCH BASIN
	DROP INLET
	STORM SERVICE INLET
	STORM SERVICE ROOF-DRAIN
	JUNCTION BOX
	DRAINAGE FLOW ARROW
	LINE BREAK SYMBOL
	TOP & BOTTOM CURB ELEVATIONS
	TOP OF WALL ELEVATION
	BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
	SPOT ELEVATION
	STORM DRAINAGE
	STORM SERVICE LINE
	TREE PROTECTION FENCE
	LIMITS OF DISTURBANCE
	WOODED AREA
	MAJOR CONTOUR
	MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EASEMENT LINE
	ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)



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**REVISIONS**

NO.	DATE
1	
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6	

**PLAN INFORMATION**

PROJECT NO. RFM-21002  
 FILENAME RFM21002-G1  
 CHECKED BY SJC  
 DRAWN BY WHM  
 SCALE 1" = 20'  
 DATE 09.23.2022

**SHEET**

**GRADING PLAN**

**C3.00**

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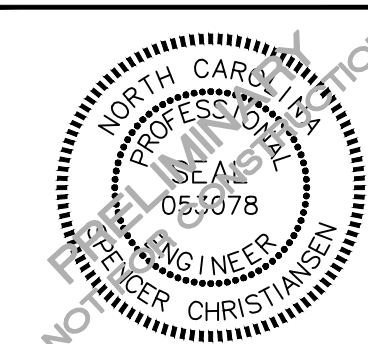
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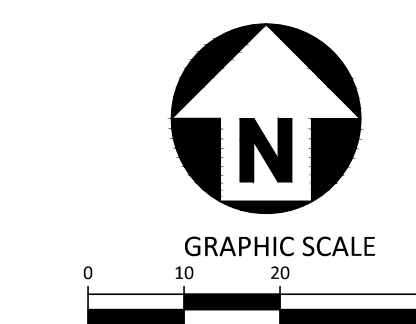
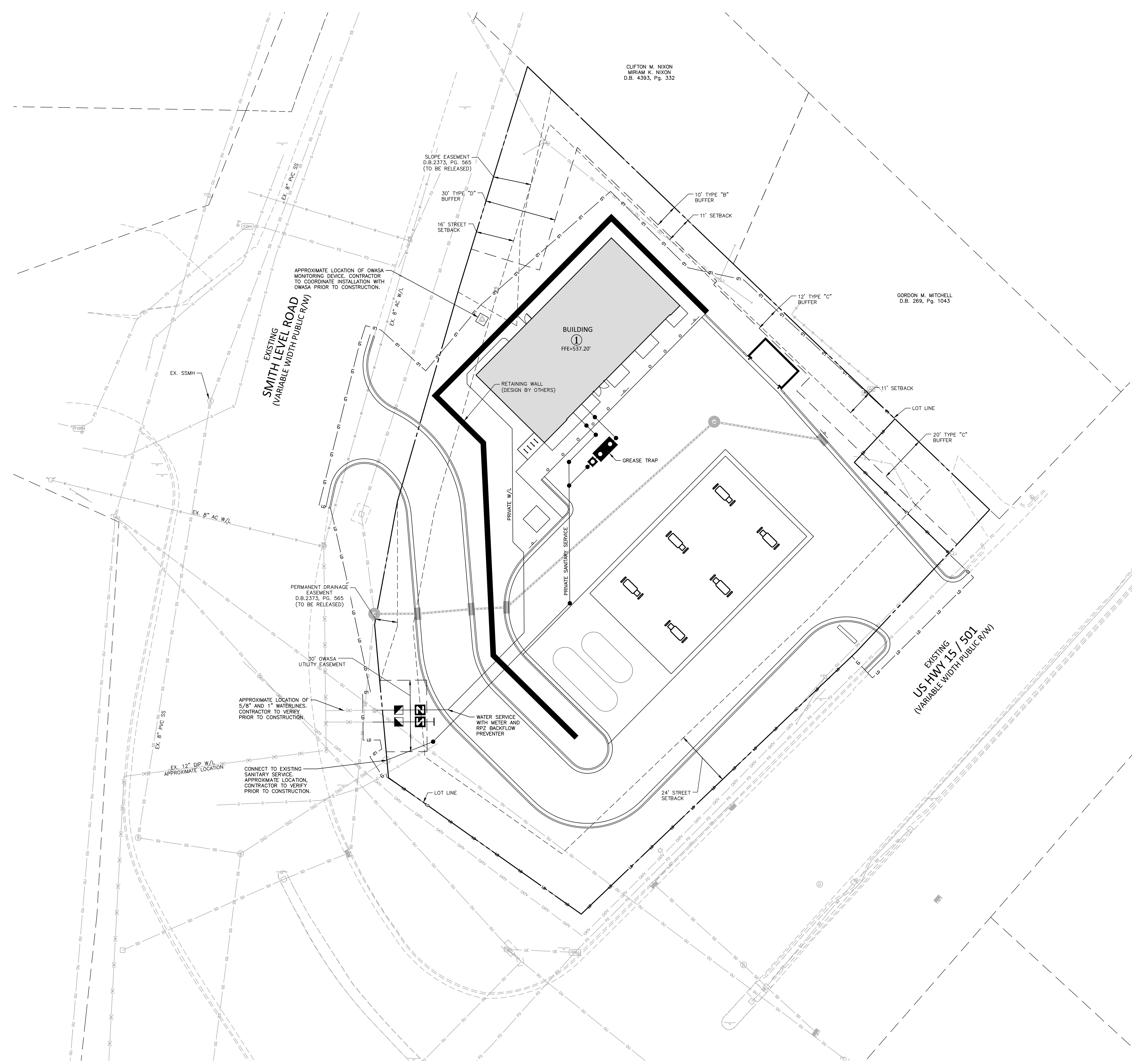


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**UTILITY LEGEND**

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE
- VALVE IN MANHOLE
- METER & VAULT
- BACKFLOW PREVENTER
- REDUCER
- PLUG
- BLOW-OFF ASSEMBLY
- SANITARY SEWER MANHOLE
- SEWER CLEAN-OUT
- GREASE TRAP
- SEWER FLOW DIRECTION ARROW
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- LINE BREAK SYMBOL
- WATERLINE
- WATER SERVICE LINE
- UTILITY SLEEVE
- SANITARY SEWER
- SEWER SERVICE LINE
- SEWER FORCE MAIN
- GAS LINE
- OVERHEAD UTILITY
- UNDERGROUND ELECTRIC
- TELEPHONE
- EASEMENT LINE



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I:\Projects\RFM\RFM21002\04-Production\Engineering\Construction Drawings\Current Drawings\1 - CIP Drawing\RFM21002-U1.DWG, 9/23/2022 8:56:38 AM, WHM, McAdams

**REVISIONS**

NO.	DATE
1	
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**PLAN INFORMATION**

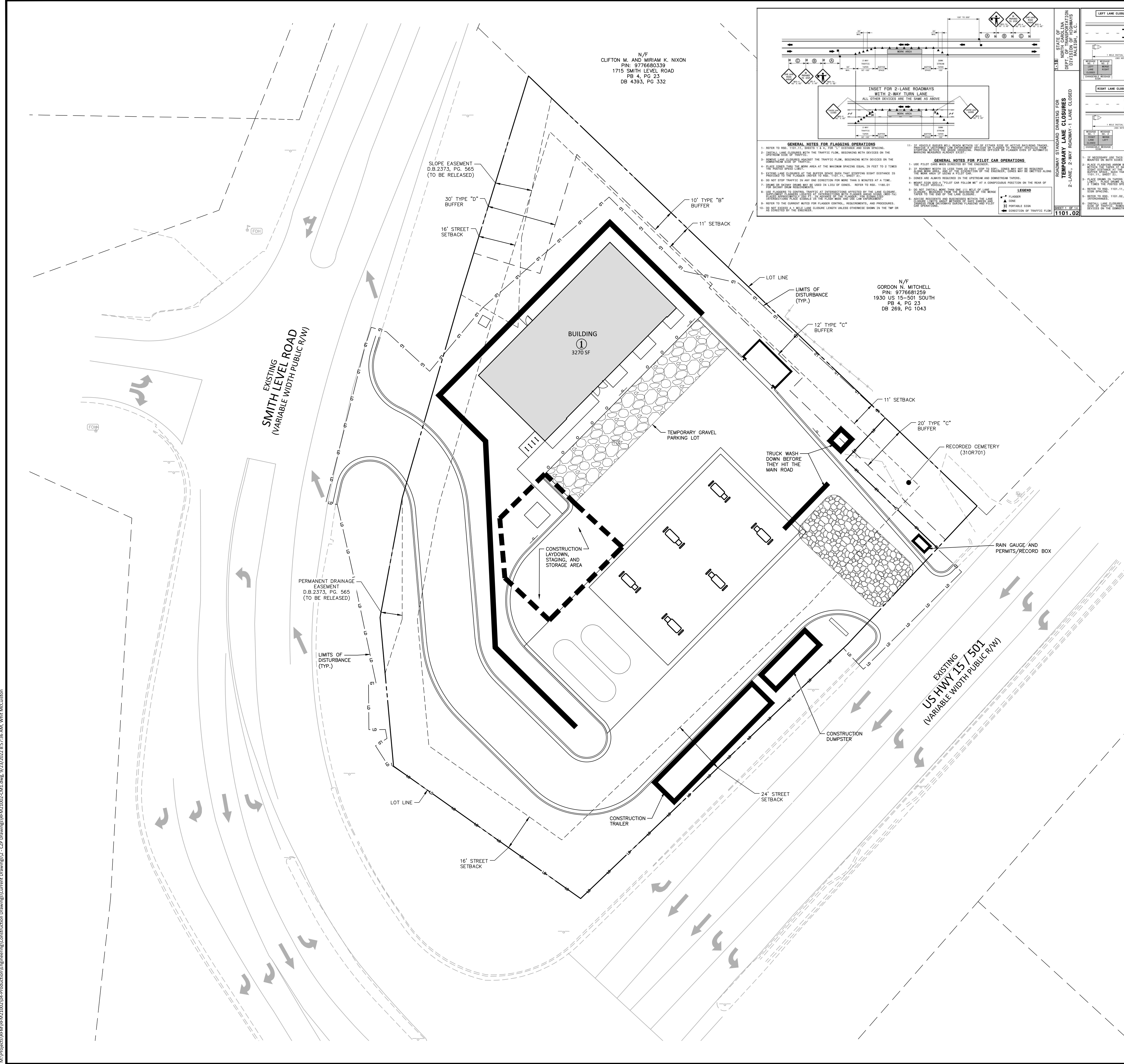
PROJECT NO. RFM-21002  
 FILENAME RFM21002-U1  
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**SHEET**

UTILITY PLAN

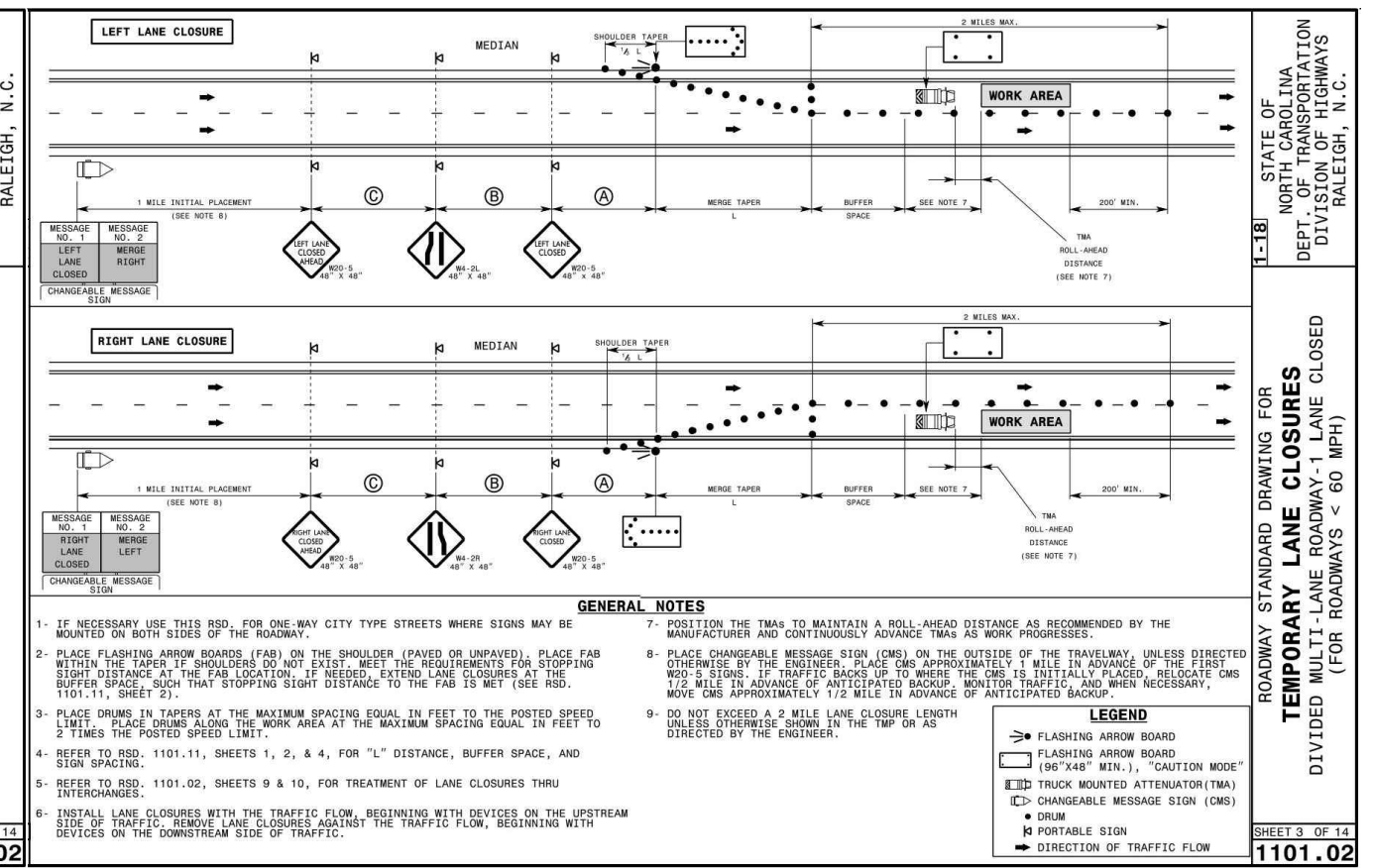
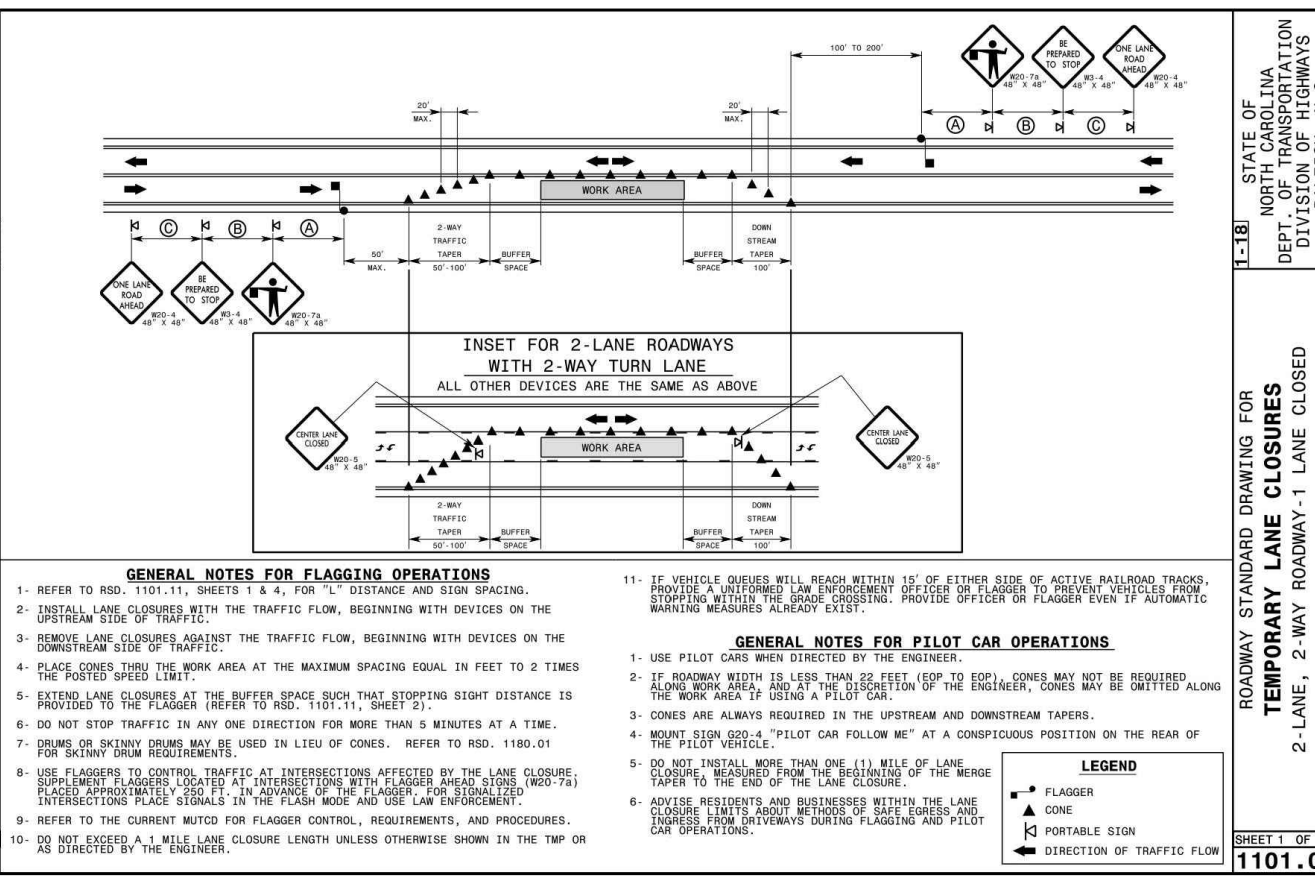
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N/F  
CLIFTON M. AND MIRIAM K. NIXON  
PIN: 977680339  
1715 SMITH LEVEL ROAD  
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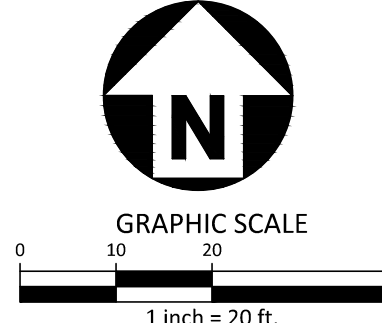


**CONSTRUCTION MANAGEMENT NOTES:**

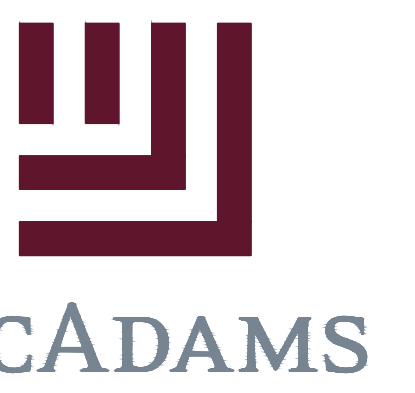
- ALL LARGE TRUCKS AS RELATED TO VEHICULAR CONSTRUCTION TRAFFIC SHALL ENTER/LEAVE THE SITE THROUGH THE TEMPORARY CONSTRUCTION ENTRANCES & EXITS AS SHOWN ON THIS PLAN UNLESS OTHERWISE NOTED ON THE EROSION CONTROL PLANS. LANE CLOSURES SHALL BE ESTABLISHED AS SHOWN ON THIS PLAN AND CONSTRUCTION PERSONNEL SHALL BE IN ATTENDANCE TO MANAGE AND DIRECT VEHICULAR AND PEDESTRIAN TRAFFIC.
- ENTRANCE AND EXIT GATES SHALL BE CLOSED UNLESS CONSTRUCTION OR DELIVERY VEHICLES ARE ENTERING OR EXITING THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL PROVIDE WORK ZONE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH ALL APPLICABLE MCDOT STANDARDS. REFER TO THE TRAFFIC AND PEDESTRIAN CONTROL PLAN FOR SPECIFIC NOTES AND DETAILS.
- NO OPEN BURNING SHALL BE PERMITTED.
- THE APPLICANT SHALL POST A CONSTRUCTION SIGN ON THE DEVELOPMENT SITE THAT LISTS THE FOLLOWING:
  - PROPERTY OWNER'S REPRESENTATIVE & TELEPHONE NUMBER
  - CONTRACTOR'S REPRESENTATIVE & TELEPHONE NUMBER
  - TELEPHONE NUMBER FOR REGULATORY INFO AT TIME OF BUILDING PERMIT
  - SIGN MAY BE A MAXIMUM OF 32 SF AND A MAXIMUM HEIGHT OF 8 FT.
- FENCING AROUND PROJECT SHALL INCLUDE ACCESS GATES WITH A 20-FOOT SWING OR SLIDE MOTION.
- CONSTRUCTION FENCE SHALL BE MODIFIED AS REQUIRED DURING CONSTRUCTION PHASING FOR PEDESTRIAN CIRCULATION.
- PRIOR TO ANY TRAFFIC LANE AND/OR SIDEWALK CLOSURES, THE APPLICANT SHALL CONTACT THE CHAPEL HILL TRAFFIC ENGINEERING OFFICE (919-969-5096 OR 919-969-5100) AT LEAST 5 WORKING DAYS BEFORE THE PROPOSED WORK TO APPLY FOR A LAND CLOSURE PERMIT.
- ROAD CLOSURES ON PUBLIC STREETS WILL BE PERMITTED THROUGH MUST BE COORDINATED WITH AND APPROVED BY THE TOWN OF CHAPEL HILL.
- TEMPORARY STREET ROAD SIGNS ARE REQUIRED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADS ALLOWS FOR THE PASSAGE OF VEHICLES. SIGNS SHALL BE OF APPROVED SIZE, WEATHER RESISTANT AND BE MAINTAINED UNTIL REPLACED BY PERMANENT SIGNS.
- CONTRACTOR TO PROVIDE DEDICATED ONSITE PARKING SPACES FOR INSPECTORS AT EACH BUILDING AND NEAR THE JOB TRAILER FOR THE DURATION OF CONSTRUCTION
- ROADS WITH CURB AND GUTTER AND THE FIRST LIFT OF ASPHALT WILL NEED TO BE CONSTRUCTED BEFORE COMBUSTIBLES ARE ON SITE IN ORDER TO MEET REQUIREMENTS FROM FIRE CODE, STORMWATER, AND OWASA. HYDRANTS SHALL BE ACTIVE IN THE AREAS FOR CONSTRUCTION.
- CONSTRUCTION OPERATIONS FROM 7:00 AM TO 9:00 PM ON WEEKDAYS AND 8:00 AM TO 5:00 PM ON THE WEEKENDS FOR WHICH BUILDING PERMITS HAVE BEEN ISSUED, OR CONSTRUCTION OPERATIONS NOT REQUIRING PERMITS DUE TO OWNERSHIP OF THE PROJECT BY AN AGENCY OF GOVERNMENT, PROVIDING ALL EQUIPMENT IS OPERATED IN ACCORD WITH THE MANUFACTURER'S SPECIFICATIONS, AND WITH ALL STANDARD EQUIPMENT, AND WITH MANUFACTURER'S MUFFLERS AND NOISE-REDUCING EQUIPMENT IN USE, AND IN PROPER OPERATING CONDITION.
- CONSTRUCTION PARKING IN RESIDENTIAL NEIGHBORHOODS IS PROHIBITED.

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



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547 LONG POINT RS, SUITE 103  
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PHONE: 843. 388. 4966



**STARPOINT - REFUEL MARKET**  
**CONDITIONAL ZONING PERMIT**  
1950 US HWY 15-501 N  
CHAPEL HILL, NC 27516



**REVISIONS**

NO.	DATE

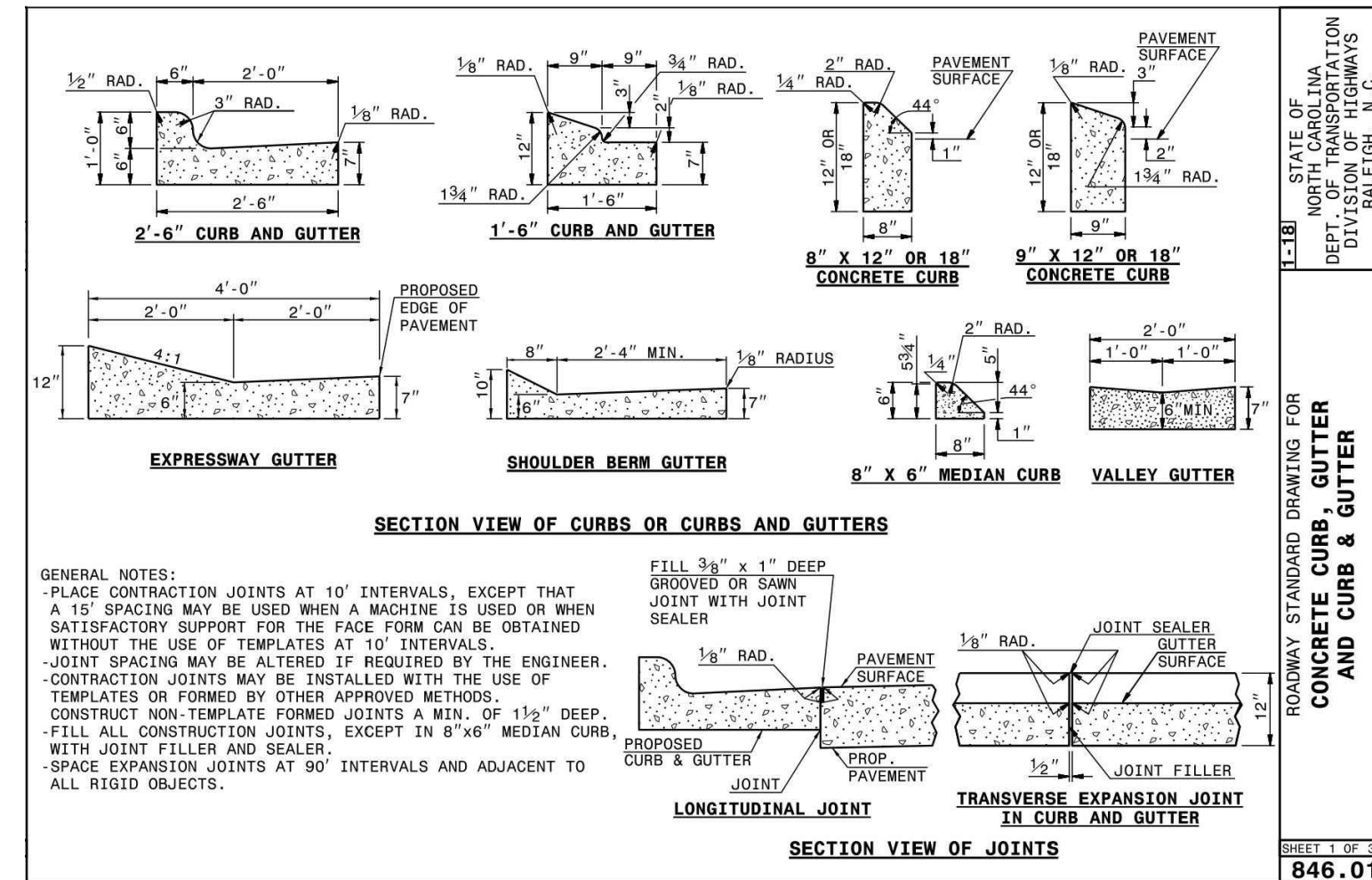
**PLAN INFORMATION**

PROJECT NO.	RFM-21002
FILENAME	RFM21002-CM1
CHECKED BY	SJC
DRAWN BY	WHM
SCALE	1" = 20'
DATE	09.23.2022

**SHEET**

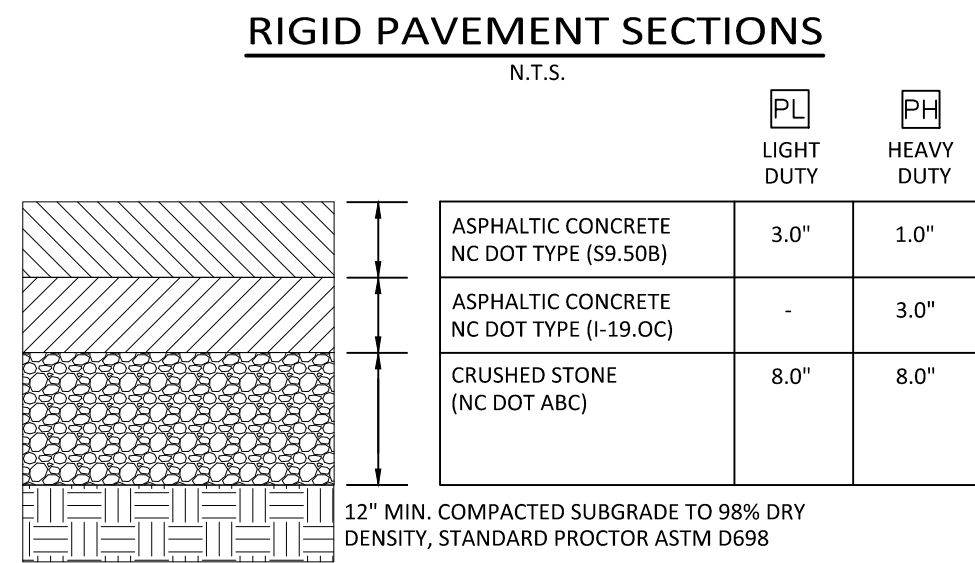
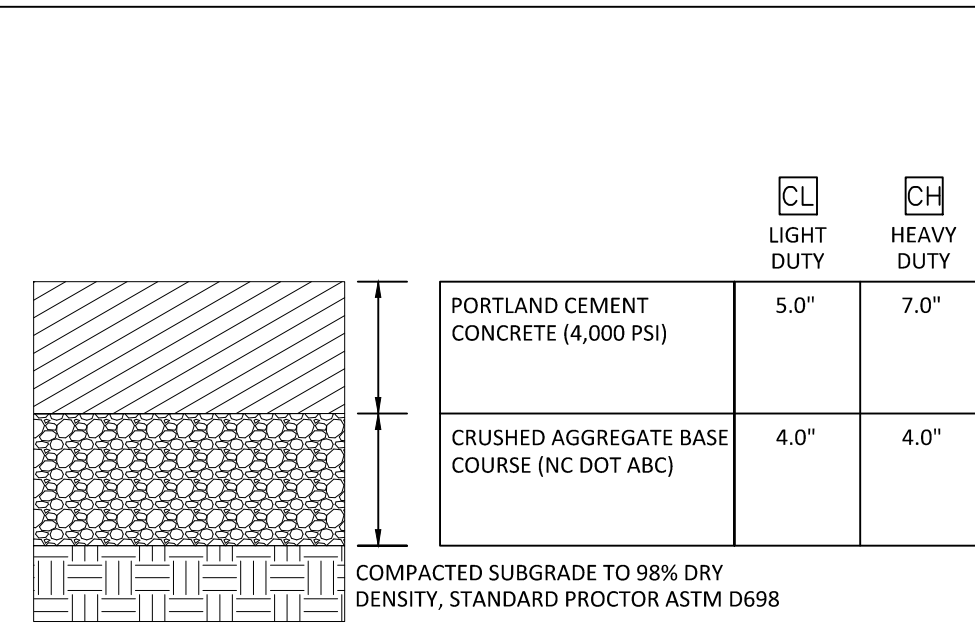
**CONSTRUCTION**  
**MANAGEMENT PLAN**  
**C7.00**

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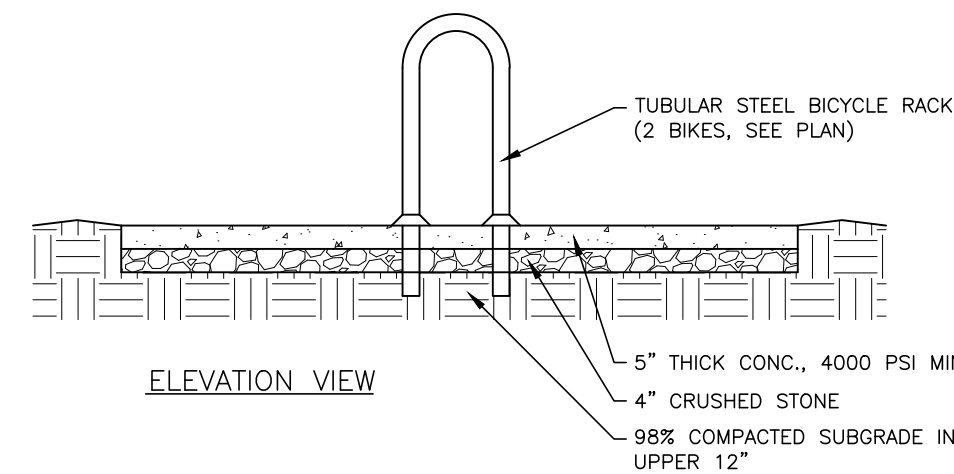
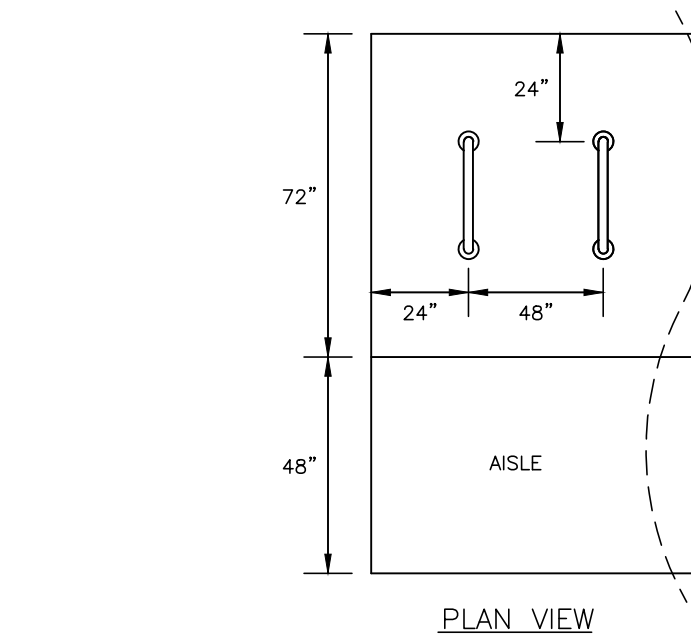
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
 CONCRETE CURB, GUTTER AND CURB & GUTTER  
 SHEET 1 OF 1  
**846.01**

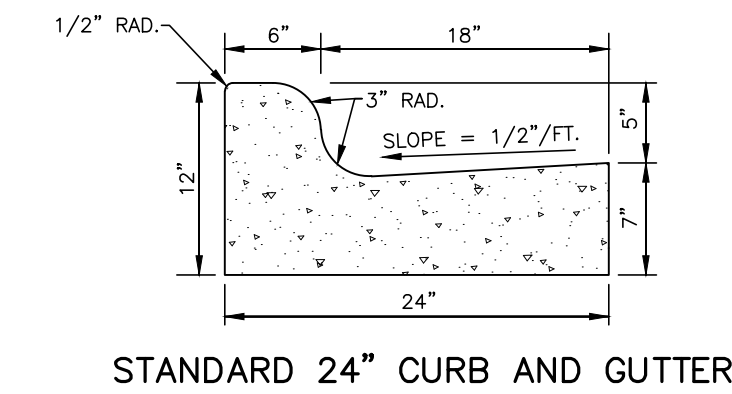


**FLEXIBLE PAVEMENT SECTIONS**  
N.T.S.

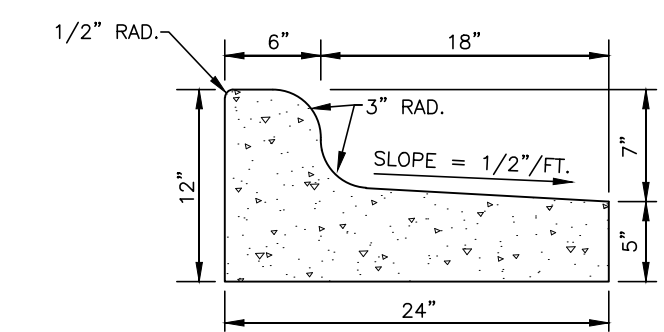
**NOTE:**  
 THE PAVEMENT SECTIONS SHOWN ARE PRELIMINARY. THE CONTRACTOR SHALL VERIFY PAVEMENT DESIGN WITH THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.



**BICYCLE RACK**  
N.T.S.



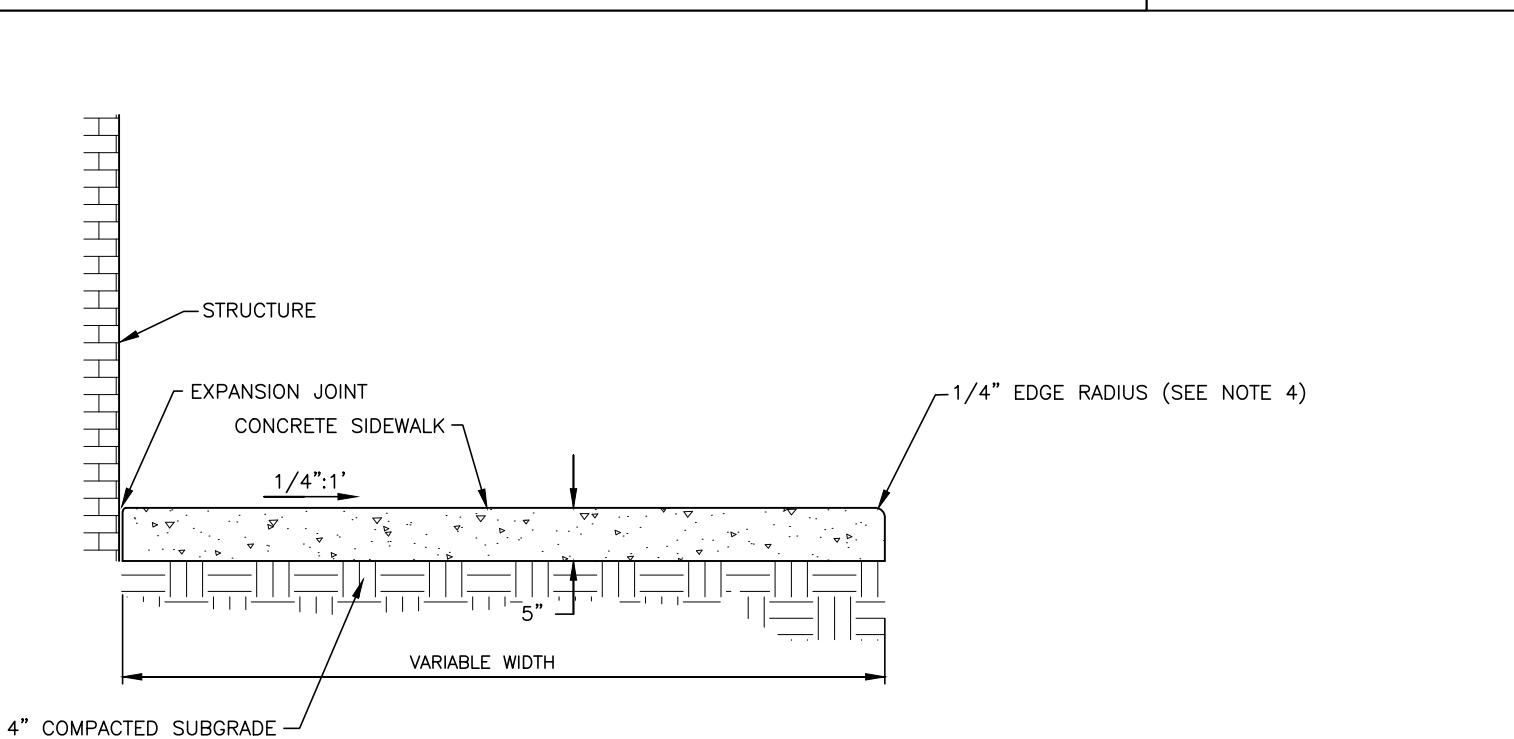
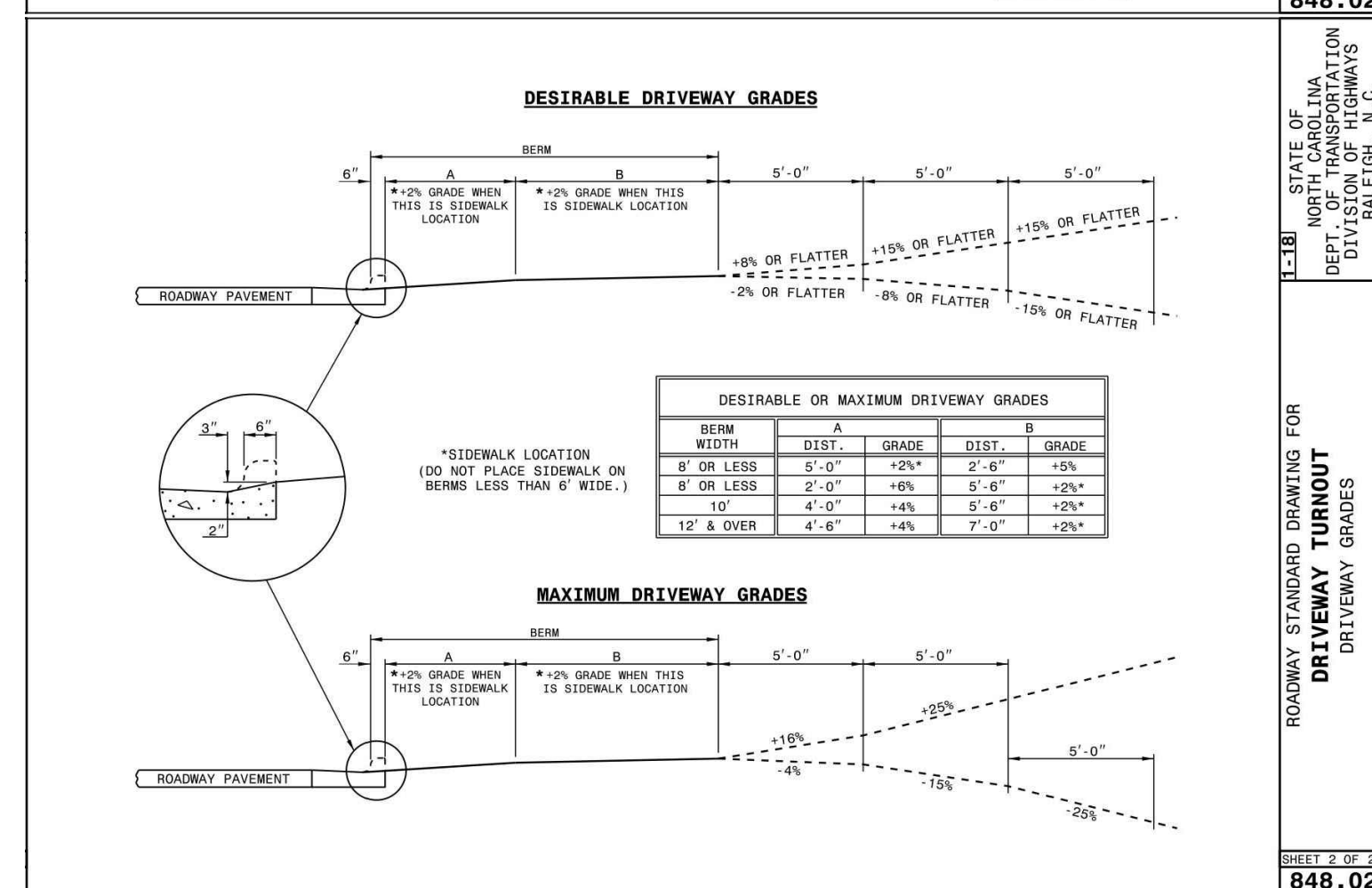
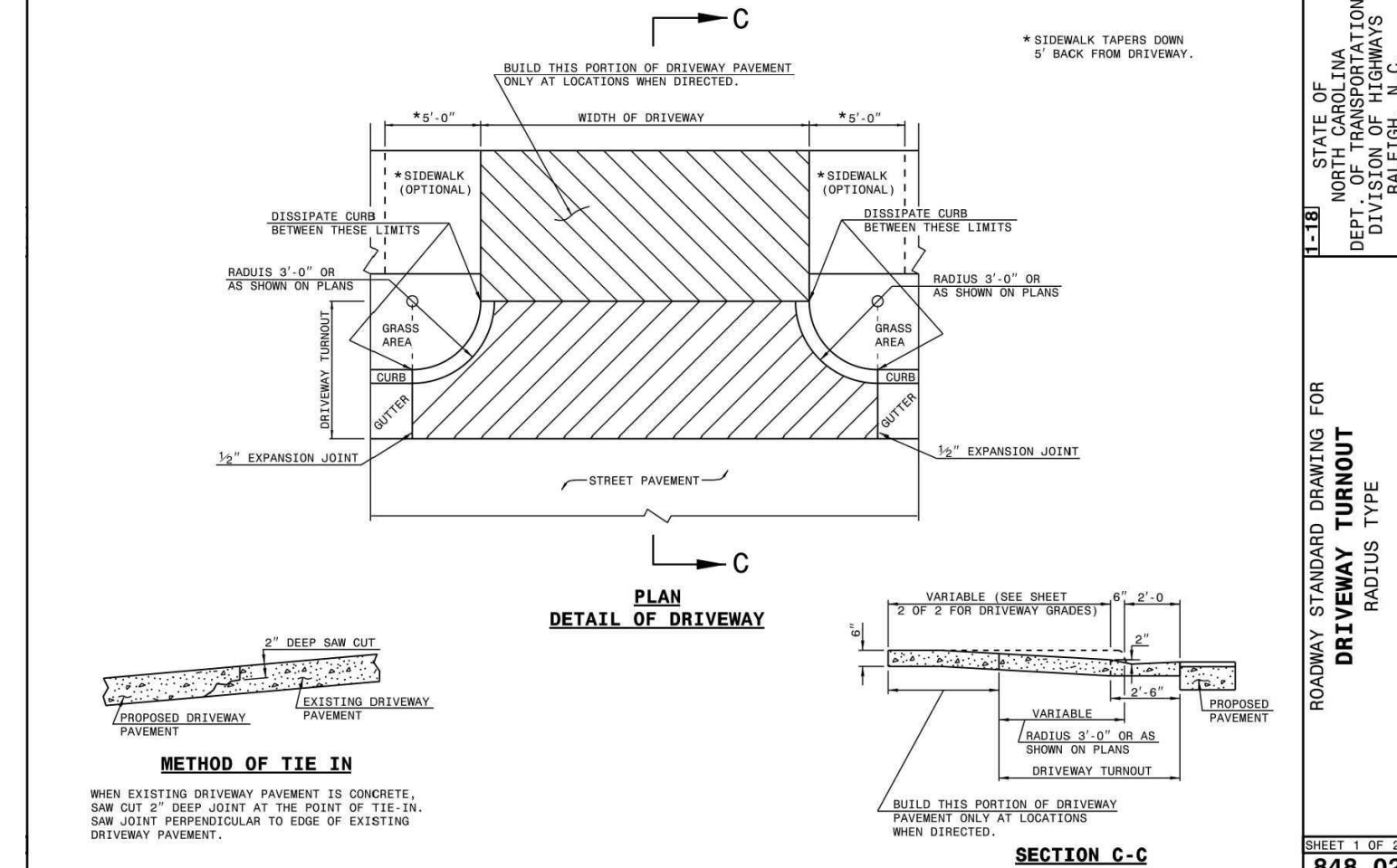
**STANDARD 24" CURB AND GUTTER**  
N.T.S.



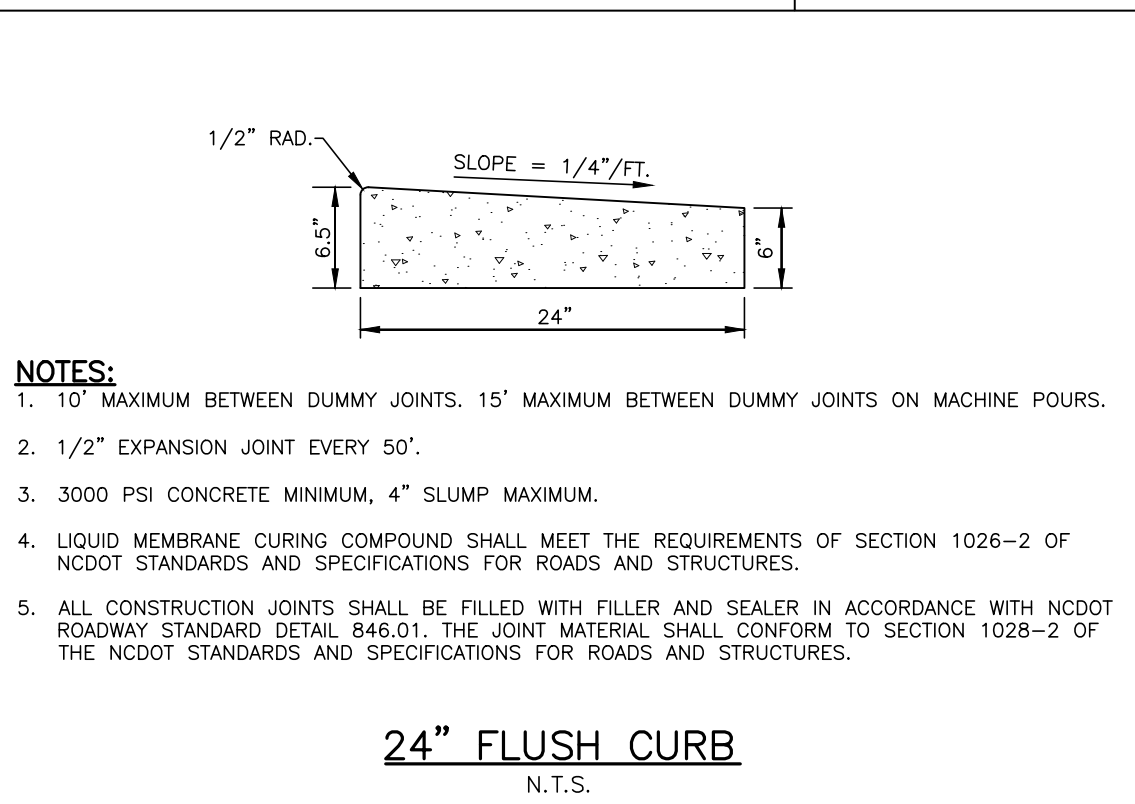
**24" SPILL CURB AND GUTTER**  
N.T.S.

- NOTES:**
- 10' MAXIMUM BETWEEN DUMMY JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
  - 1/2" EXPANSION JOINT EVERY 50'.
  - 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
  - LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
  - ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH FILLER AND SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF THE NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
  - REFER TO NCDOT DETAIL 846.01 FOR CURB AND GUTTER SUPERELEVATION RATES.

**24" CURB AND GUTTER**  
N.T.S.

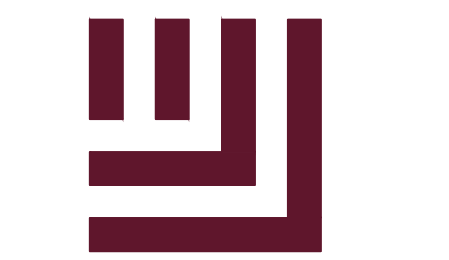


**CONCRETE SIDEWALK**  
N.T.S.



- NOTES:**
- 10' MAXIMUM BETWEEN DUMMY JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
  - 1/2" EXPANSION JOINT EVERY 50'.
  - 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
  - LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
  - ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH FILLER AND SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF THE NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.

**24" FLUSH CURB**  
N.T.S.



**McADAMS**

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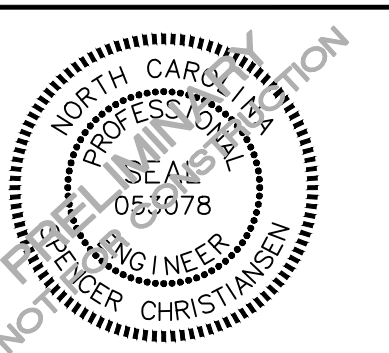
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**STARPOINT - REFUEL MARKET**  
**CONDITIONAL ZONING PERMIT**  
**1950 US HWY 15-501 N**  
**CHAPEL HILL, NC 27516**



**REVISIONS**

NO. DATE

**PLAN INFORMATION**

PROJECT NO. RFM-21002  
 FILENAME RFM21002-01  
 CHECKED BY SJC  
 DRAWN BY WHM  
 SCALE N/A  
 DATE 09. 23. 2022

**SHEET**

**SITE DETAILS**

**C8.00**

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

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