PHONE: 919-554-6517 EMAIL: PLANNING@ROLESVILLE.NC.GOV

TRANSPORTATION AUTHORITY TOWN OF ROLESVILLE **CONTACT: JG FERGUSON** PHONE: 919-556-3506

STORM SEWER WAKE COUNTY ENGINEERING CONTACT: JEEVAN NEUPANE, PE

PHONE: 919-819-8907 **EMAIL: JEEVAN.NEUPANE@WAKEGOV.COM**

SANITARY SEWER CITY OF RALEIGH PUBLIC UTILITIES CONTACT: MIKE BARITELL PHONE: 919-996-3245 EMAIL: MIKE.BARITELL@RALEIGHNC.GOV

WATER CITY OF RALEIGH PUBLIC UTILITIES **CONTACT: MIKE BARITELL** PHONE: 919-996-3245 EMAIL: MIKE.BARITELL@RALEIGHNC.GOV

DOMINION ENERGY

CONTACT: BUSINESS DEVELOPMENT CONTACT

PHONE: 1-877-776-2427

ELECTRIC WAKE ELECTRIC CONTACT: BUILDERS LINE PHONE: 800-545-3853

TELEPHONE & CABLE AT&T PHONE: 800-767-2355

SPECTRUM PHONE: 919-595-4892



SP 22-01 / Site Development Plan / Heartland Dental 908 S. Main St.

APPROVED

Date: October 27, 2023

Meredith Truber

Town of Rolesville Planning Department

4,260 SQUARE FOOT - SINGLE STORY DENTAL OFFICE

ROLESVILLE, NC DENTAL OFFICE

DESIGN CONTACTS

DRAWING INDEX

C2.2

SHEET NO. SHEET TITLE

COVER SHEET NOTES SHEET

ALTA SURVEY

DEMOLITION PLAN RECORDED PLAT

SITE LAYOUT PLAN

ROW PLAN

UTILITY PLAN UTILITY PROFILE **GRADING PLAN**

DRAINAGE PLAN

CIVIL DETAILS **CIVIL DETAILS**

CIVIL DETAILS

CIVIL DETAILS

CIVIL DETAILS

CIVIL DETAILS

CIVIL DETAILS

LANDSCAPE PLAN

PHOTOMETRIC PLAN

A11.1 DUMPSTER ENCLOSURE DETAILS

FIRE TRUCK TURN EXHIBIT

GARBAGE TRUCK TURN EXHIBIT

LANDSCAPE NOTES & DETAILS

A4.1-4 BUILDING ELEVATIONS & MATERIALS

BMP PLAN AND PROFILE

TREE PRESERVATION PLAN

SURVEYOR: BALLENTINE ASSOCIATES, P.A..

221 PROVIDENCE ROAD **CHAPEL HILL, NC 27514**

PHONE: 984-884-4635

8650 E STATE RD 32

ZIONSVILLE, IN 46077

PHONE: 317-572-8277

PHONE: 502-648-3803

CONTACT: BRIAN SCHROCK

EROSION & SEDIMENT CONTROL PLAN PHASE 1 EROSION & SEDIMENT CONTROL PLAN PHASE 2

EROSION & SEDIMENT CONTROL PLAN DETAILS

EROSION & SEDIMENT CONTROL PLAN DETAILS

UNDERGROUND BMP MDC REQUIREMENTS

UNDERGROUND DETENTION DETAILS UNDERGROUND DETENTION DETAILS

UNDERGROUND DETENTION DETAILS UNDERGROUND DETENTION DETAILS

EFFINGHAM, IL 62401

PHONE: 314-537-4140

CIVIL ENGINEER / LANDSCAPE ARCHITECT: TARR GROUP, LLC

DEVELOPER: WMG DEVELOPMENT, LLC.

PO BOX 768

CONTACT: DAVID E. BOWERS PLS

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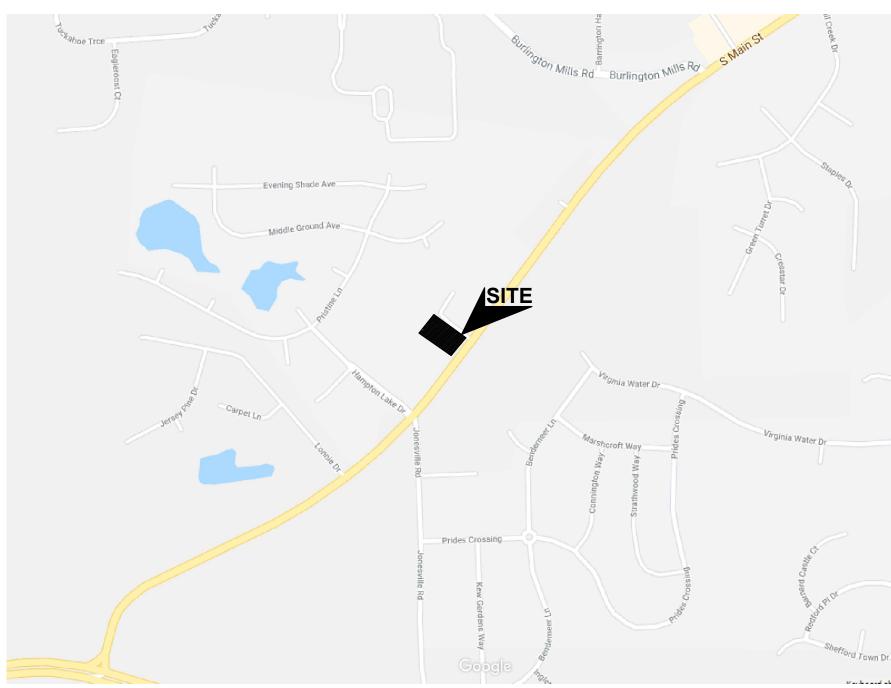
ENGINEERING CONTACT: DYLAN TARR

EMAIL: DYLAN@TARR-GROUP.COM LANDSCAPE ARCHITECT: TIM HUBER

EMAIL: BSCHROCK@WMGDEVELOPMENT.COM

EMAIL: TIM@TARR-GROUP.COM

908 S MAIN ST. ROLESVILLE, NORTH CAROLINA PARCEL PIN# 1758461097 **SP22-01**



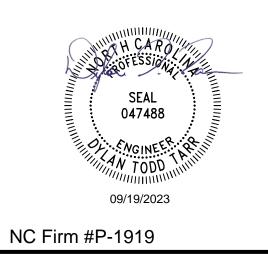
VICINITY MAP

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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

City of Raleigh Development Approval

Raleigh Water Review Officer



ROLESVILLE I WMG DEVEL 908 S I ROLESN

OF	ORIGINAL ISSUE DATE: 01/05/22				
RE	EVISIONS:				
\triangle	REVISION 1	03/28/2022			
2	REVISION 2	04/13/2022			
<u>/3</u>	REVISION 3	06/22/2022			
4	REVISION 4	09/01/2022			
<u> </u>	REVISION 5	10/03/2022			
<u>6</u>	REVISION 6	01/13/2023			
\triangle	REVISION 7	07/20/2023			
<u>8</u>	REVISION 8	09/18/2023			

PROJ. NO.: 21040

CIVIL COVER SHEET

EROSION AND SEDIMENT CONTROL APPROVED PLAN DATE 09/19/2023 PERMIT NO. S- SEC-077186-2022 Wake County Environmental Services Sedimentation & Erosion Control

919-856-7400

ENVIRONMENTAL CONSULTANT SIGNATURE

IF THIS SHEFT DOES NOT MEASURE 24"x36". IT HAS BEEN ENLARGED OR REDUCED. PLEASE ADJUST SCALE ACCORDINGLY.

- THE DEMOLITION PLAN IS BASED ON EXISTING CONDITION SITE INFORMATION OBTAINED FROM THE OWNER. TARR GROUP HAS NOT FIELD VERIFIED EXISTING CONDITIONS. REMOVAL ITEMS SHOWN ARE BASED ON BEST AVAILABLE INFORMATION AND ARE SHOWN SCHEMATICALLY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BE FULLY FAMILIAR WITH THE EXTENT OF THE REMOVAL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NECESSARY TO COMPLETE CONSTRUCTION. QUESTIONS REGARDING ITEMS TO BE REMOVED SHALL BE DIRECTED TO TARR GROUP PRIOR TO DEMOLITION ACTIVITIES.
- CAREFULLY PRESERVE AND MAINTAIN EXISTING BENCHMARKS, HORIZONTAL/VERTICAL CONTROL MONUMENTS, PROPERTY LINE PIPES AND PINS AND OTHER REFERENCE POINTS. CONTRACTOR TO RESTORE OR REPLACE AT OWN EXPENSE.
- ONSITE BLASTING AND BURNING IS NOT ALLOWED. EMPLOY JACK HAMMERING AND OTHER LOUD NOISES AND METHODS SPARINGLY AND ONLY DURING TIME PERIODS APPROVE BY OWNER.
- CONTRACTOR SHALL ARRANGE FOR DISPOSITION OF REMOVAL ITEMS IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- LOCATION OF DUMP, LENGTH OF HAUL, AND DISPOSAL EXPENSES ARE CONTRACTOR'S RESPONSIBILITY. MATERIALS ENCOUNTERED THAT ARE SUSPECTED OF CONTAINING HAZARDOUS MATERIALS SHALL NOT BE
- DISTURBED. CONTACT CIVIL ENGINEER OR OWNER IMMEDIATELY.
- SALVAGED ITEMS ARE TO BE CLEANED, PACKED OR CRATED IN CLEARLY IDENTIFIED CONTAINERS, AND STORED IN A SECURE AREA UNTIL DELIVERED TO OWNER. CONTRACTOR TO PROTECT ITEMS FROM DAMAGE DURING TRANSPORT
- THE CONTRACTOR SHALL CONTACT OWNER TO ARRANGE THE STORAGE OF ANY REMOVED SIGNS, LIGHTING, OR OTHER OBJECTS THAT ARE IDENTIFIED ON THE PLAN AS BEING RETURNED TO OWNER.
- REFER TO THE CIVIL DRAWINGS FOR UTILITY DEMOLITION INFORMATION (IF APPLICABLE). ALL EXISTING PLANTS TO REMAIN ARE TO BE PROTECTED FROM DAMAGE BY CONSTRUCTION OPERATIONS. DO NOT OPERATE EQUIPMENT, STORE, STOCKPILE, OR PARK WITHIN DRIP LINE OF PLANTS. REMOVE SOD OVER PROMINENT ROOTS BY HAND TO MINIMIZE DAMAGE TO ROOT SYSTEM. CONTRACTOR IS RESPONSIBLE FOR HEALTH AND LIFE OF
- ALL PLANTS TO REMAIN OR BE RELOCATED THROUGHOUT CONSTRUCTION AND WARRANTY PERIOD. THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING IRRIGATION MAINLINE PRIOR TO DEMOLITION ACTIVITIES.
- IRRIGATION TO EXISTING LANDSCAPE AREAS SHALL BE PROTECTED AND MAINTAINED DURING CONSTRUCTION. MINIMIZE DISTURBANCE IN CONSTRUCTION STAGING AREAS. REPLACE/RESTORE ALL LANDSCAPE, HARDSCAPE IRRIGATION, LIGHTING, ETC. WHICH IS DISTURBED BY CONSTRUCTION.
- 12. CONTRACTOR TO CONDUCT SELECTIVE DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
- CONTRACTOR TO PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTIONS REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
- CONTRACTOR SHALL NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. CONTRACTOR TO REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. 15. CONTRACTOR TO COMPLY WITH ALL APPLICABLE LAWS FOR MATERIALS TRANSPORTATION DURING ONSITE AND
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO EXISTING CONDITION BEFORE SELECTIVE DEMOLITION OPERATIONS
- 17. THE LIMITS OF WORK DESCRIBED IN THE DRAWINGS ARE APPROXIMATE. WORK REQUIRED OUTSIDE THESE LIMITS
- WHICH IS NEEDED TO MEET THE INTENT OF THE DRAWING IS THE RESPONSIBILITY OF THE CONTRACTOR.

LAYOUT AND PAVING NOTES

- THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- ALL EXISTING STRUCTURES, CONCRETE PADS/WALKS/DRIVES AND UTILITY SERVICES ON THE SITE SHALL BE REMOVED TO FULL DEPTH PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL PERMITS AND PAY ALL FEES PRIOR TO BEGINNING WORK
- PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT, FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES AND IRRIGATION SLEEVES PRIOR TO INSTALLATION OF
- PAVEMENT. THE CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN, IN ACCORDANCE WITH THE SPECIFICATIONS. DO NOT
- OPERATE OR STORE HEAVY EQUIPMENT OR STORE MATERIALS WITHIN THE DRIPLINES OF TREES OR OUTSIDE THE LIMIT OF GRADING CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH WITH NO EXPOSED AGGREGATE ON ANY FACE. ALL
- CONCRETE TO BE MINIMUM 4.000 PSI COMPRESSIVE STRENGTH WITH 5%(+/-1%) AIR ENTRAINMENT. MIXTURES WITH WATER/CEMENT RATIOS AT 0.5 OR BELOW ARE RECOMMENDED. CURB RAMPS, SIDEWALK SLOPES, AND DRIVEWAY RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL CURRENT LOCAL REQUIREMENTS. IF APPLICABLE, THE CONTRACTOR SHALL REQUEST INSPECTION OF SIDEWALK AND RAMP FORMS PRIOR TO PLACEMENT OF CONCRETE, NO FLY ASH PERMITTED.
- CONSTRUCTION OF REINFORCED CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH ACI 330 STANDARD SPECIFICATIONS. CURING COMPOUND SHALL BE APPLIED TO ALL CONCRETE SURFACES IMMEDIATELY AFTER BROOM CONTRACTOR SHALL REJECT CONCRETE IF IT CANNOT BE PLACED WITHIN 90 MINUTES OF BATCH TIME OR WITHIN 75 MINUTES DURING SUMMER HIGH TEMPERATURE CONDITIONS.
- ALL DAMAGE TO EXISTING ASPHALT PAVEMENT TO REMAIN RESULTING FROM NEW CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
- 10. DIMENSIONS ARE TO THE FACE OF CURB, EXPOSED FACE OF WALL, EDGE OF CONCRETE OR TO THE FACE OF BUILDING, IRRIGATION NOTES UNLESS OTHERWISE NOTED.
- 11. SCREENED ITEMS INDICATE A PRE-CONSTRUCTION TOPOGRAPHIC SURVEY PROVIDED BY BALLENTINE ASSOCIATES, P.A., (919-929-0481), DATED 08/05/21.
- 12. CONCRETE PAVEMENT CONTRACTION JOINTS SHALL BE CONSTRUCTED TO A DEPTH OF AT LEAST 1/4 THE CONCRETE THICKNESS, AND SHALL DIVIDE CONCRETE ROUGHLY INTO SQUARES WITH MAXIMUM 10' SEGMENTS. JOINTS CAN BE SAWCUT, FORMED, OR TOOLED.
- 13. MAINTAIN ONE SET OF MARKED-UP AS-BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE ENGINEER UPON COMPLETION.
- 14. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR COMPLETED SITE. CONSULT ENGINEER FOR SPECIFIC REQUIREMENTS
- 15. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING POSTAL DELIVERY METHOD WITH THE LOCAL JURISDICTION. IF A PHYSICAL MAILBOX IS REQUIRED, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, LOCATION PLACEMENT, AND INSTALLATION.
- 16. ALL PAVEMENT MARKINGS, SIGNAGE, AND TRAFFIC CONTROL SHALL CONFORM TO THE LOCAL DEPARTMENT OF TRANSPORTATION AND THE MUTCD STANDARDS, CURRENT EDITION, UNLESS NOTED OTHERWISE.
- 17. ALL CURBING CURB TO BE PAINTED YELLOW WHERE LESS THAN 6" (TYP)
- 18. IF PAVEMENT IS CONCRETE, ADD 4" WIDE SAFETY YELLOW STRIPE AT EDGE OF ALL SIDEWALK BORDERING PAVEMENT.

GENERAL UTILITY NOTES

- WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODES AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PAY ALL FEES AND OBTAIN PERMITS. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND ARE BASED ON BEST INFORMATION
- AVAILABLE. ADDITIONAL UTILITIES MAY BE PRESENT. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS. THE CONTRACTOR SHALL NOTIFY THE STATE ONE-CALL SYSTEM AT (811) AT LEAST THREE WORKING DAYS PRIOR TO ANY
- EXCAVATION AND/OR DEMOLITION. MAINTAIN 10-FOOT HORIZONTAL AND 24-INCH VERTICAL SEPARATIONS BETWEEN SANITARY SEWER AND WATER SUPPLY
- LINES. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN 14 DAYS OF MOBILIZATION. TAKE $^{4\cdot}$ CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE

CONTRACTORS EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM INSTALL UTILITIES PRIOR TO FINAL PAVEMENT CONSTRUCTION.
- BACKFILL UTILITY TRENCHES UNDER PAVEMENT AREAS WITH CRUSHED STONE OR GRAVEL. BACKFILL UTILITY TRENCHES IN LAWN AREAS WITH SATISFACTORY FILL MATERIAL COMPACTED TO AT LEAST 95% OF MAXIMUM PER ASTM
- ADJUST ALL EXISTING CASTINGS TO MATCH PROPOSED FINISH GRADE.
- 10. ALL SANITARY SEWER PIPE SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE.
- 11. WATER SERVICE PIPE SHALL BE SDR21 PVC PRESSURE RATING 200 PSI.
- 12. CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (ELECTRIC, WATER, GAS, SEPTIC, SEWER) AS WELL AS PROVIDING ALL INFRASTRUCTURE REQUIRED BY UTILITY COMPANY
- 13. SANITARY SEWER CLEANOUT LIDS SHALL BE HEAVY-DUTY RATED WHEN LOCATED IN PAVEMENT AND WHEN ACCESSIBLE BY VEHICLE, AND MEDIUM-DUTY RATED WHEN IN LANDSCAPED AREAS.
- 14. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR COMPLETED UTILITIES. CONSULT ENGINEER FOR SPECIFIC REQUIREMENTS. TOP OF PIPE ELEVATIONS WILL BE REQUIRED FOR WATER AND SEWER AT ALL BENDS,
 - APPURTENANCES, FITTINGS, ETC. FOR AS-BUILT SURVEY.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations. This approval of this electronic document is only

valid if the document has not been modified and the digital signature below is valid:

City of Raleigh Development Approval

EROSION AND SEDIMENT CONTROL NOTES

- ALL LOCATIONS OF TEMPORARY EROSION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE
- PROVIDE TEMPORARY SEEDING AND MULCH ON STOCKPILES AND ALL OTHER AREAS OF THE SITE THAT WILL REMAIN
- UNDISTURBED FOR 14 DAYS OR MORE.
- SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE BARRICADES, FENCING, AND OTHER DEVICES TO KEEP UNAUTHORIZED PERSONNEL
- FROM THE PROJECT SITE AND WORK ZONES AND TO DIRECT TRAFFIC TO EXISTING PARKING AS NEEDED. STAGING LOCATION FOR CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH AND APPROVED BY
- 10. SEE EROSION CONTROL DETAILS FOR LOCAL NOTES AND STANDARDS ALONG WITH SIZING CALCULATIONS FOR INDIVIDUAL PRACTICES.

- A MINIMUM DEPTH OF 6 INCHES. MAKE STOCKPILES FREE DRAINING AND PROVIDE EROSION AND SEDIMENTATION
- SATISFACTORY TOPSOIL IS DEFINED AS SOIL BEING FREE OF SUBSOIL, CLAY LUMPS, STONES, OTHER OBJECTS OVER 1

- ALL SITE OPEN SPACE NOT OTHERWISE PAVED TO BE STABILIZED PER LANDSCAPE PLAN L2.1.

- TOP OF GRATE ELEVATIONS FOR CURB INLETS ARE GIVEN TO THE CENTER OF THE INLETS AT THE FACE OF CURB. THE
- 11. NOTIFY LOCAL UTILITY LOCATOR SERVICE OF INTENDED EXCAVATION/UTILITY TRENCHING OPERATIONS. SEE GENERAL
- 12. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS OR IF PROBLEMS ARE ENCOUNTERED DURING

- 15. CONTRACTORS SHALL VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO BEGINNING WORK.

- 18. ALL CURBS AND SIDEWALKS SHALL BE BACKFILLED FLUSH WITH TOPSOIL, AND SEEDED AND MULCHED UNLESS OTHERWISE NOTED.
- 19. ALL PIPES UNDER PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED STONE. ALL PIPES UNDER LAWN AREAS SHALL BE BACKFILLED WITH SATISFACTORY MATERIAL, COMPACTED TO 95% OF MAXIMUM PER ASTM D698.

- 22. EARTHWORK FILL SHALL INCLUDE STRIPPING TOPSOIL AND PLACING ENGINEERED FILL IN MAXIMUM 8" LOOSE MATERIAL LIFTS AND COMPACTED TO MAXIMUM DRY DENSITY OF 98% OF STANDARD PROCTOR DENSITY (ASTM D698).
- 23. FINISHED GRADE AT EXTERIOR WALLS SHALL BE A MINIMUM OF 6 INCHES BELOW FINISHED FLOOR AT ALL NON PAVED
- 25. STORM CLEANOUT LIDS SHALL BE HEAVY-DUTY RATED WHEN LOCATED IN PAVEMENT AND WHEN ACCESSIBLE BY VEHICLE, AND MEDIUM-DUTY RATED WHEN IN LANDSCAPED AREAS.
- 26. ALL SUBGRADE PREPARATION WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETED IN ACCORDANCE WITH THE

- THE IRRIGATION SYSTEM SHALL BE DESIGNED TO CONFORM TO THE REQUIREMENTS OF THE TOWN OF ROLESVILLE CODE OF
- IRRIGATION SYSTEM TO BE DESIGN BUILD BY CONTRACTOR.
- ALL LATERAL AND SUPPLY LINES SHALL BE CLASS 200 PVC, SIZED FOR FLOW VELOCITIES OF 5 FT./SEC. OR LESS
- PROVIDE TWO " QUICK COUPLING VALVES ON SUPPLY LINE.
- PROVIDE AUTOMATIC DRAIN VALVES AT ALL LOW POINTS ON SUPPLY AND LATERAL LINES.
- PROVIDE TWO PLASTIC SUPPLY LINE MANUAL DRAIN VALVES.
- 7. ACCEPTABLE SYSTEM COMPONENTS:
 - SYSTEM CONTROLLER: HUNTER X-CORE SERIES, TOR0 TMC-212 SERIES, RAIN BIRD RZX SERIES, CONTROLLER SHALL BE
 - B. ZONE CONTROL VALVES: HUNTER PGV SERIES, TORO 250/260 SERIES, RAIN BIRD DV/DVF SERIES
 - C. SPRINKLER HEADS: HUNTER SRM AND PRO SPRAY SERIES, TORO 570Z AND 300 SERIES, RAIN BIRD 1800 AND 3500 SERIES
 - RAIN/FREEZE SENSORS: HUNTER RAIN CLIK PLUS HUNTER FREEZE CLIK, TORO TWRFS

CONSTRUCTION CLOSE-OUT

- LANDSCAPE ARCHITECT ARE TO BE RECONSTRUCTED AT CONTRACTOR'S EXPENSE
- INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE COMPLETION OF THIS WORK.
- WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSES, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK, SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY THE ENGINEER AND/OR LANDSCAPE ARCHITECT AT THE
- THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR
- PROJECT. CONTRACTOR TO VERIFY UTILITY FINAL ACCEPTANCE PROCESS AND COORDINATE WITH THE APPROPRIATE PARTIES. THESE
 - TASKS CAN INCLUDE, BUT ARE NOT LIMITED TO: 7.1. AS-BUILTS
 - 7.2. INSPECTIONS

 - 7.4. CLEANING
 - 7.5. EASEMENT RECORDATION
 - 7.6. OPERATIONS AND MAINTENANCE AGREEMENT CONTRACTOR TO VERIFY GRADING AND DRAINAGE FINAL ACCEPTANCE PROCESS AND COORDINATE WITH THE APPROPRIATE PARTIES. THESE TASKS CAN INCLUDE, BUT ARE NOT LIMITED TO:
 - 8.2. INSPECTIONS
 - 8.3. EASEMENT RECORDATION
 - 8.4. OPERATIONS AND MAINTENANCE AGREEMENT
- CONTRACTOR TO VERIFY LANDSCAPE FINAL ACCEPTANCE PROCESS AND COORDINATE WITH THE APPROPRIATE PARTIES. THESE ASKS CAN INCLUDE, BUT ARE NOT LIMITED TO:
- 9.1. AS-BUILTS
- 9.2. INSPECTIONS
- 9.3. MATERIALS APPROVAL BY LANDSCAPE ARCHITECT
- LINES)

- CONSTRUCT TEMPORARY EROSION CONTROL AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS
- ARCHITECT/ENGINEER.

- REPLACE DAMAGED AND WORN OUT SILT BARRIERS AS DIRECTED BY THE ENGINEER OR AS NECESSARY PER THE SWPPP NARRATIVE (IF APPLICABLE).
- WHEN THE TEMPORARY EROSION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE (IN THE ENGINEER'S OPINION), THEY SHALL BE REMOVED.
- ALL DRAINAGE STRUCTURES, PIPES WITHIN THE LIMITS OF CONSTRUCTION AND DETENTION PONDS SHALL HAVE
- THE OWNER

GRADING AND DRAINAGE NOTES

- TOPSOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO
- CONTROLS AROUND STOCKPILES
- INCH IN DIAMETER, OR CONTAMINANTS.
- 4. STABILIZED AREAS SHALL HAVE NO BARE SPOTS.
- 6. AFTER STRIPPING TOPSOIL, PROOFROLL SUBGRADE WITH A LOADED DUMP TRUCK WITH A MINIMUM WEIGHT OF 16 TONS.
- THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATE TO REMAIN. DO NOT OPERATE OR STORE HEAVY EQUIPMENT,
- GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADE. ADJUST THE CASTING TO FALL ALONG THE CURB
- REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AT CONTRACTOR'S EXPENSE.
- UTILITY NOTE #4 ON THIS SHEET FOR PHONE NUMBER.
- CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 16. EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE OWNER'S PROPERTY AT NO ADDITIONAL COST
- 17. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING GRADING DESIGN AND REFLECT THE PLANNED INTENT WITH REGARD TO DRAINAGE. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THIS INTENT OR ANY PROBLEMS WITH THE CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED PRIOR TO BEGINNING WORK.
- SCREENED EXISTING CONDITIONS ITEMS INDICATE A PRE-CONSTRUCTION TOPOGRAPHIC SURVEY PROVIDED BY
- 21. MAXIMUM SLOPES IN ALL DIRECTIONS OF HANDICAP PARKING SPACES/AISLES SHALL NOT EXCEED 2%
- 24. ALL HDPE STORM PIPE SHALL BE ADS N-12 ST IB OR APPROVED EQUAL

- MAINTAIN ONE SET OF MARKED-UP AS-BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE ENGINEER UPON COMPLETION.
- REPAIR OR REPLACE DAMAGE TO EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC.) DESIGNATED TO REMAIN, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTORS EXPENSE. WORK DONE CONTRARY TO THE INSTRUCTIONS OF THE ENGINEER AND/OR LANDSCAPE ARCHITECT WORK DONE BEYOND THE LINES SHOWN ON THE PLANS, OR ANY EXTRA WORK DONE WITHOUT AUTHORITY WILL NOT BE PAID
- REMOVED DURING CONSTRUCTION. NEW MONUMENT SHALL BE REESTABLISHED BY A LICENSED SURVEYOR IN THE STATE OF THE
 - 7.3. TESTING
 - 8.1. AS-BUILTS

 - 9.4. PLANTING LOCATIONS IN REFERENCE TO AS-BUILT UTILITY LOCATIONS (NO TREE PLANTED WITH 10' OF ANY UTILITY

SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.

ALL GRADED AREAS SHALL BE HAVE STABILIZATION APPLIED WITHIN 15 DAYS AFTER GRADING IS COMPLETED.

FINISH GRADE TOLERANCES ARE 0.10 FOOT ABOVE OR BELOW DESIGN ELEVATIONS.

- NOR HANDLE/STORE MATERIALS WITHIN DRIPLINES OF TREES.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, PROTECT UTILITIES TO REMAIN, AND
- 13. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS. 14. SPOT ELEVATIONS AND CONTOURS REPRESENT PROPOSED FINISHED GRADE AND TOP OF FINISHED PAVEMENT.

- BALLENTINE ASSOCIATES, P.A., (919-929-0481), DATED 08/05/21.
- AREAS.

GEOTECHNICAL REPORT PREPARED BY PARTNER, PROJECT NO. 21-321152.2, DATED 06/23/2021.

- LOCATED IN THE RECEIVING AREA NEXT TO THE ELECTRICAL PANEL.
- RAIN/FREEZE SENSOR OR RAIN BIRD WR2 WIRELESS RAIN/FREEZE SENSOR.
- ANY PLAN SUBSTITUTIONS THAT ARE NOT PREVIOUSLY APPROVED AND FOUND TO BE UNACCEPTABLE BY CIVIL ENGINEER & / OR ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT, SHALL BE CONSIDERED

047488

NC Firm #P-1919

FLARED END SECTION FM FORCEMAIN FOOT HIGH-DENSITY **POLYETHYLENE** INVERT ELEVATION INCH INTERNAL WATER STORAGE LINEAR FEET MATCH EXISTING MANHOLE MUTCD MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES NORTH NORTH CAROLINA NCDOT DEPARTMENT OF TRANSPORTATION ON CENTER POINT OF CONNECTION POLYVINYL CHLORIDE RADIUS SLOPE / SOUTH SEASONAL HIGH WATER TABLE SANITARY SEWER STAINLESS STEEL SIDEWALK TOP OF CURB **TYPICAL** UNO **UNLESS NOTED OTHERWISE** WEST WATER QUALITY WQv **VOLUME**

İ							
		PARKING CALCULATIONS					
	PROPOSED USE	AREA (SF)	REQUIRED PARKING/UNIT	MAX SPACES	PROVIDED SPACES		
	DENTAL OFFICE	4,260	2 / 1,000 SF	9	30 (INCLUDING 2 HC)		
	BICYCLE PARKING		2/LOT	-	2		
	LOADING		1/LOT	-	1		

DATUM INFO

CONDITIONS SHEET, C1.1.

FLOOD MAP INFO

SITE LIGHTING

AND CIVIL PLANS.

O: 978-661-1884

C: 978-404-1333

CONTACT: RYAN HUNT

SITE DATA TABLE

PROPERTY USE:

MIN. LOT WIDTH:

MIN. LOT SIZE:

ACTUAL LOT WIDTH

ACTUAL LOT SIZE:

ELEVATIONS SHOWN REFERENCE THE NORTH

AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

PER F.I.R.M. NO. 3720175800 J, EFFECTIVE 05/02/2006,

GC IS TO SOLICIT LIGHTING BIDS FOR ALL SHELL

BUILDING LIGHTING & SITE LIGHTING FROM THE

CONTACTOR SHALL SUPPLY AND INSTALL THE

EMAIL: RHUNT@STANDARDELECTRIC.COM

PROPERTY ZONED: CO (COMMERCIAL)

BUILDING SETBACKS: FRONT = 20'

SITE AREA 46,173± S.F. = 1.06± ACRES

PROVIDED BUILDING COVERAGE:

BUILDING AREA: 4.260 S.F. GROSS AREA

MIN. GREEN SPACE/OPEN SPACE AREA:

CO (VACANT COMMERCIAL)

ONE-STORY, MAX HEIGHT = 35'-0"

5%

145'±

20,000 SF

46,173± SF

LEFT SIDE = 0'

REAR = 35'

MAX. FLOOR AREA/MAX. BUILDING COVERAGE: N/A

PROVIDED OPEN SPACE AREA: (0.053+ ACRES) 5%+

EXISTING IMPERVIOUS AREA: 0.00 ACRES = 0%

EXISTING PERVIOUS AREA: 1.06 ACRES = 100%

PROPOSED IMPERVIOUS AREA: 0.68 ACRES = 64%

PROPOSED PERVIOUS AREA: 0.36 ACRES = 36%

RIGHT SIDE = 15'

EXTERIOR LIGHTING PACKAGE WHICH CONSISTS OF

ALL LIGHTING SHOWN IN THE SHELL BUILDING PLANS F

OWNERSHIP'S PREFERRED VENDORS ONLY. AWARD (CNTRL

SHALL BE AT THE CONTRACTOR'S DISCRETION. THE STR)

REFERENCE THE SURVEY ON THE EXISTING

THE PROJECT SITE IS LOCATED IN ZONE X.

STRIPING LEGEND SURFACES SHOULD BE CLEAN, DRY AND METAL SURFACES FREE OF

BOLLARDS - | ENAMEL SAFETY YELLOW B55Y300

FIRE MARSHAL INSPECTOR.

FIRE LANE

STRIPING -

STRIPING -SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS -PARKING LOT: PRO MAR TRAFFIC MARKING PAINT YELLOW TM5495 HANDICAP SURFACES SHOULD BE CLEAN, DRY, TOP COAT SHERWIN WILLIAMS -STRIPING -PRO MAR TRAFFIC MARKING PAINT "H.C." BLUE AND WHITE. PARKING LOT:

ABBREVIATIONS CENTERLINE PROPERTY LINE **APPROXIMATE** APPROX APPROXIMATE ARCHITECTURE **BOTTOM OF CURB**

ELEVATION FLUSH

CONTROL STRUCTURE

ΑT

ARCH

BLDG

BTM

CO

ELEV

DIAMETER

BUILDING

BOTTOM

CLEANOUT

POC

S/W WATER SURFACE **ELEVATION** WATER

SPACE

PARKING LOT:

PARKING LOT: | COORDINATE AND CONFIRM SPACING AND PAINT COLOR WITH CITY

SURFACES SHOULD BE CLEAN, DRY. STRIPING TO BE PAINTED RED

AND "FIRE LANE NO PARKING" TO BE PAINTED RED OR WHITE.

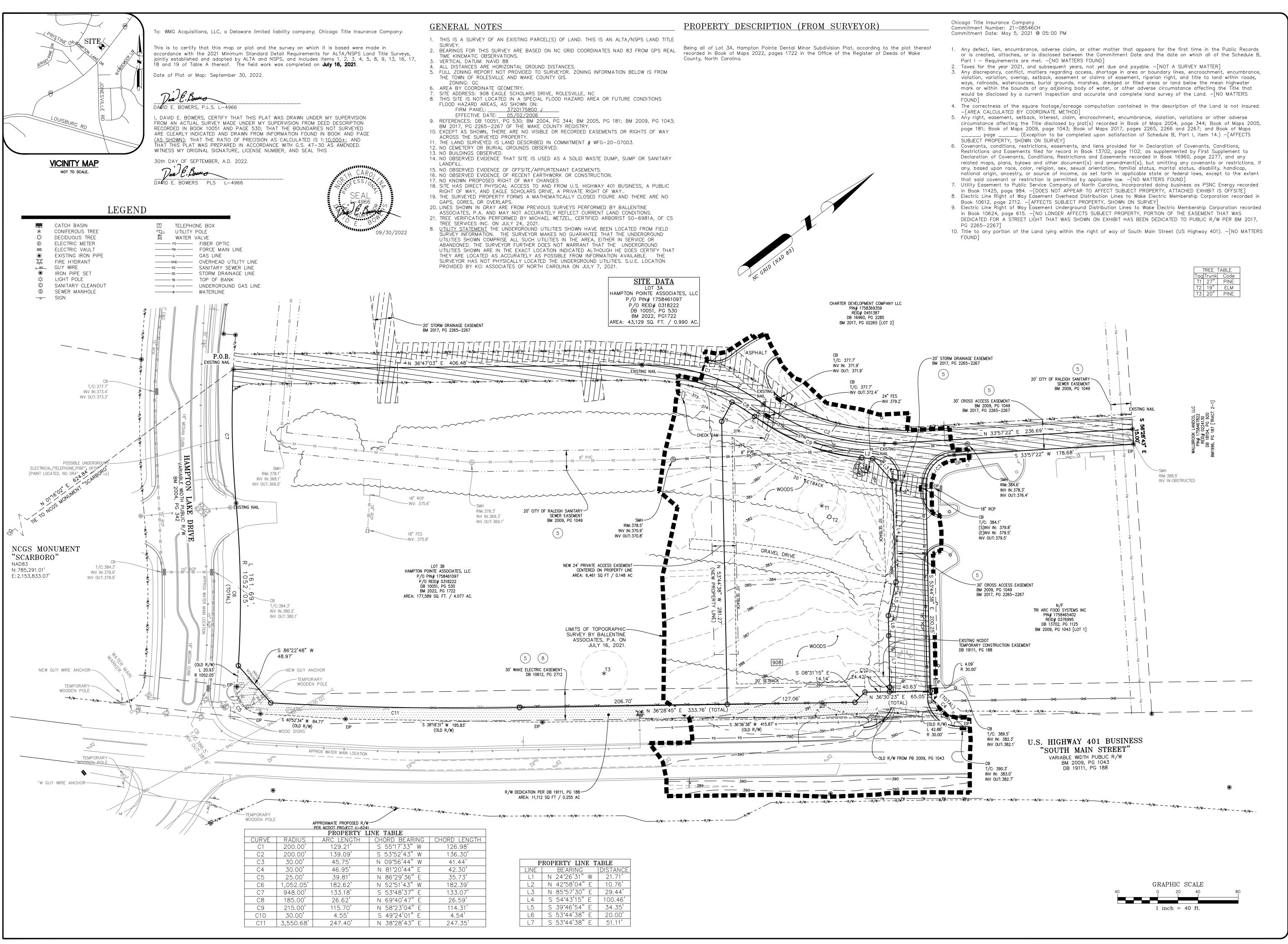
CURBING AND RUST. TWO COATS SHERWIN WILLIAMS - KEM4000 ACRYLIC ALKYD

> 0 8 X

ORIGINAL ISSUE DATE: 01/05/22 **REVISIONS: REVISION 1** 03/28/2022 **REVISION 2** 04/13/2022 **REVISION 3** 06/22/2022 **REVISION 4** 09/01/2022 **REVISION 5** 10/03/2022 **REVISION 6** 01/13/2023 **REVISION 7** 07/20/2023 **REVISION 8** 09/18/2023

NOTES SHEET

PROJ. NO.: 21040



enti a M

CORPORATE SEAL C328

OWNER INFORMATION: HAMPTON POINTE ASSOCIATES, LLO 1207 ROSENEATH RD STE 200 RICHMOND, VA 23230-4638 OWNERS REPRESENTATIVE: CHICAGO TITLE COMPANY, LLC MS. L DAWN MARTIN PH. (704) 375-0700 FAX (704) 332-7509

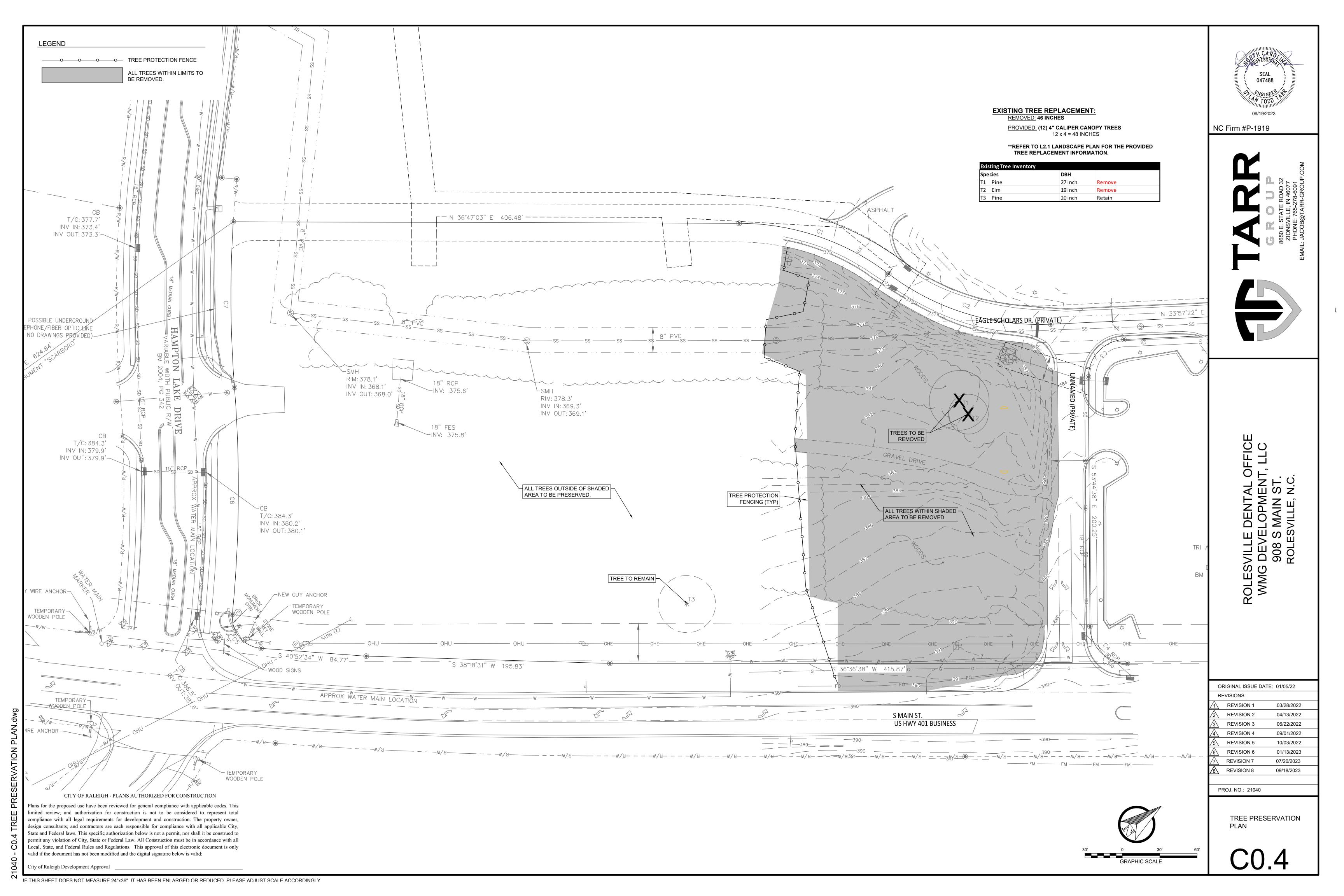
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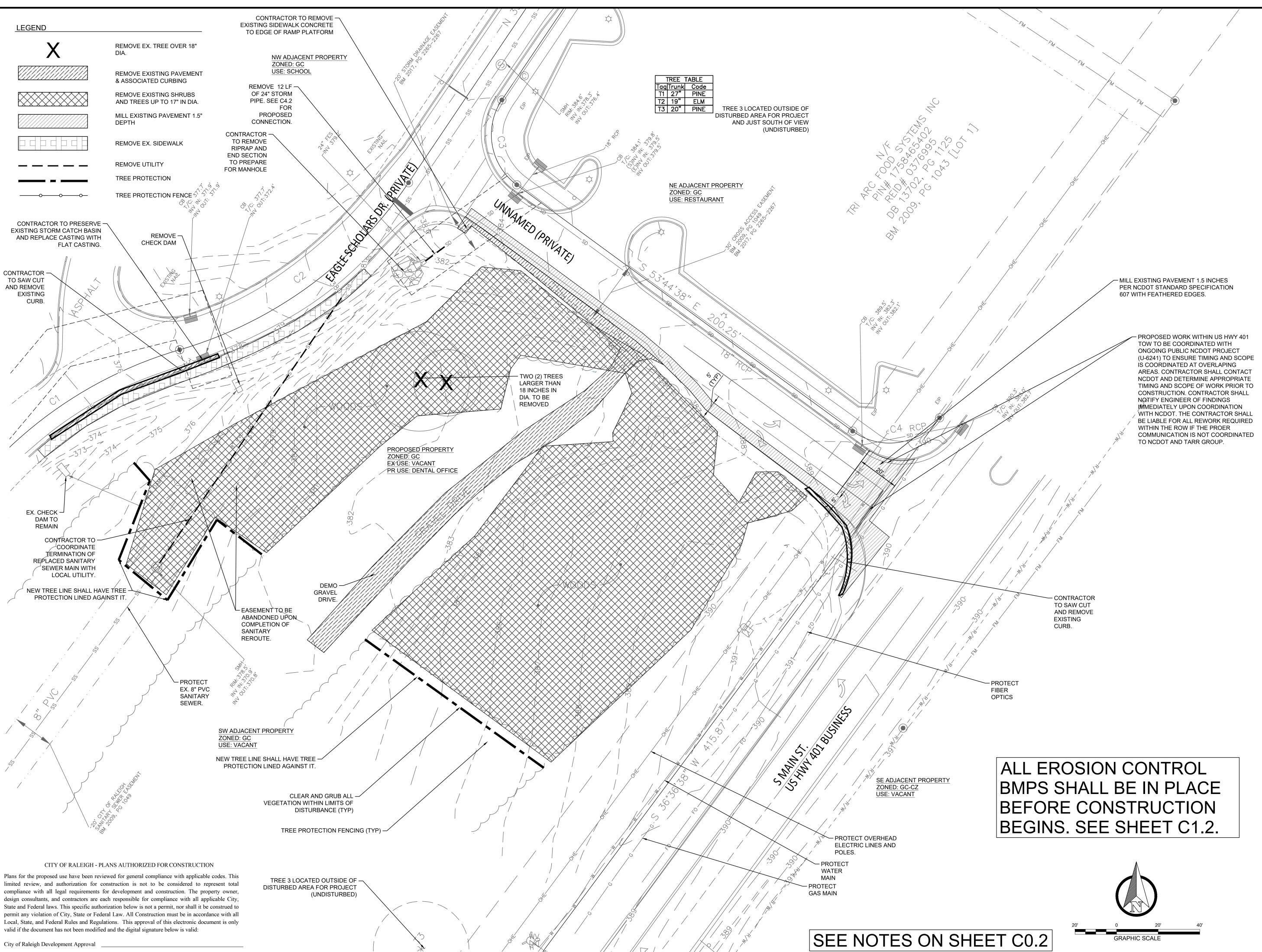
DRIVE ASSOCIATES, SCHOLARS 908

JOB NUMBER: 221027.00 05 AUG 21 SCALE: 1"=40'DDS, EJS DRAWN BY: REVIEWED BY:

SHEET

_







NC Firm #P-1919

G R O U P
8650 E. STATE ROAD 32
ZIONSVILLE, IN 46077
PHONE: 765-278-6091

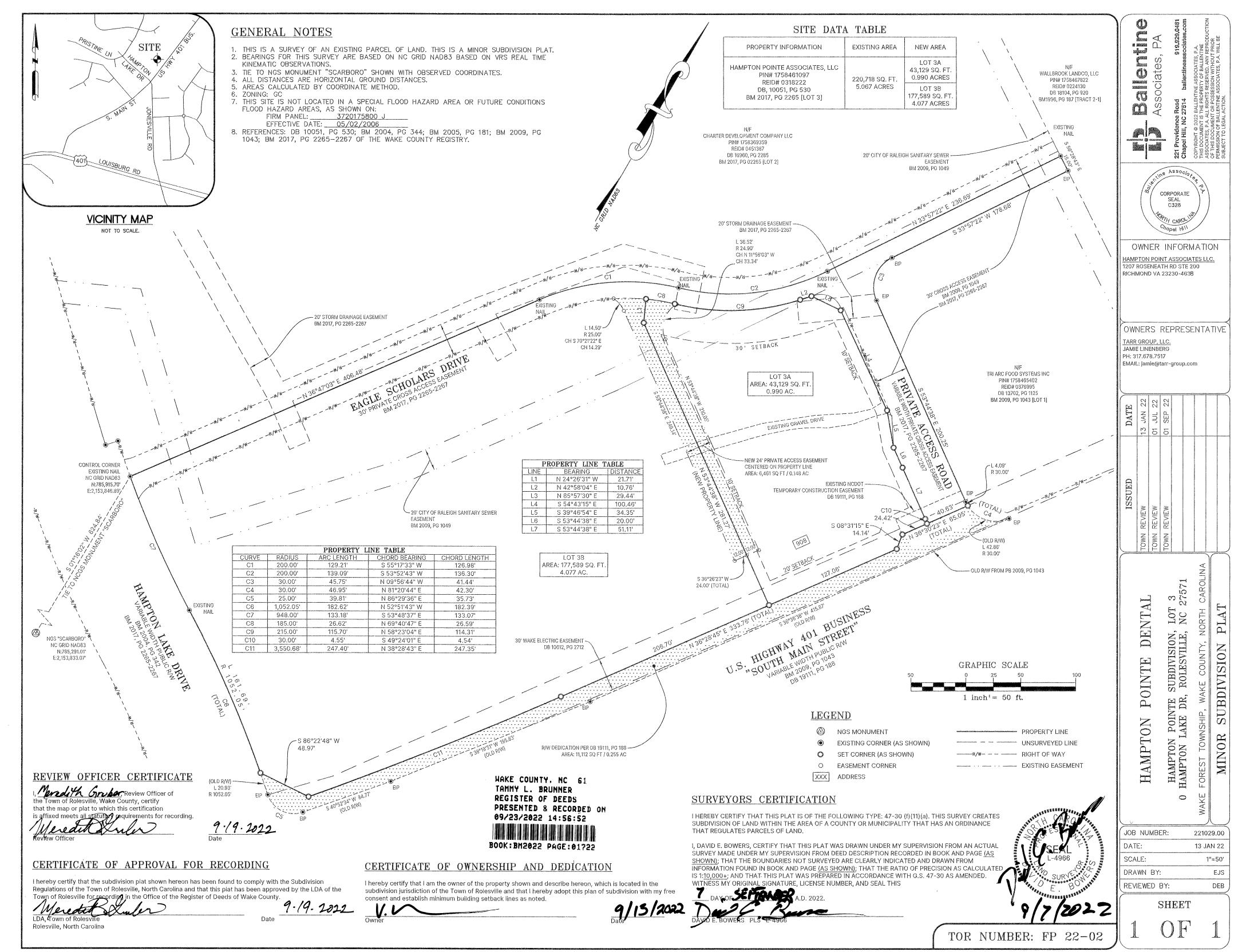
ROLESVILLE DENTAL OFFICE WMG DEVELOPMENT, LLC 908 S MAIN ST.

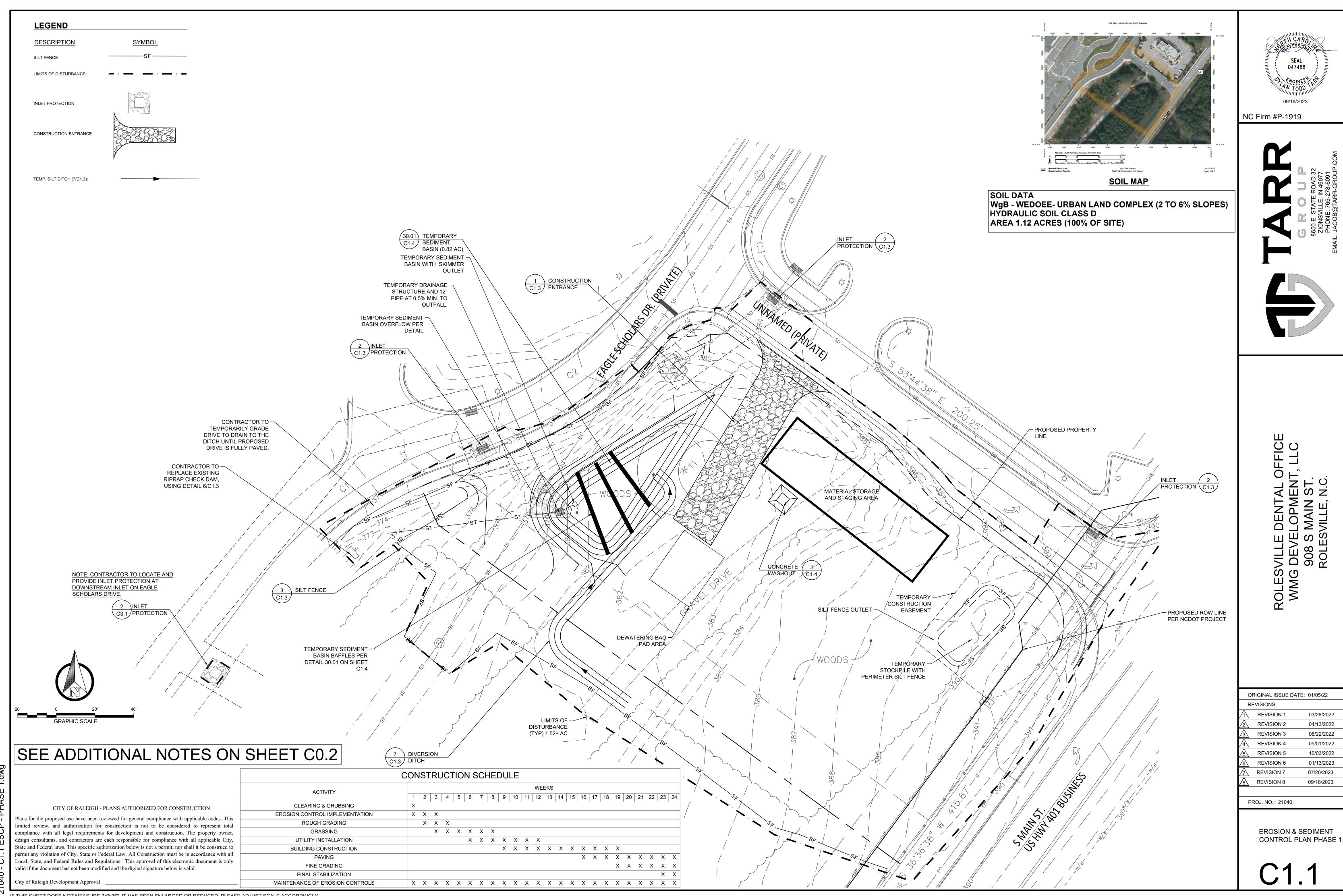
C	ORIGINAL ISSUE DATE: 01/05/22				
REVISIONS:					
1	REVISION 1	03/28/2022			
2	REVISION 2	04/13/2022			
3\	REVISION 3	06/22/2022			
1	REVISION 4	09/01/2022			
5	REVISION 5	10/03/2022			
3	REVISION 6	01/13/2023			
$\overline{\lambda}$	REVISION 7	07/20/2023			
3	REVISION 8	09/18/2023			

PROJ. NO.: 21040

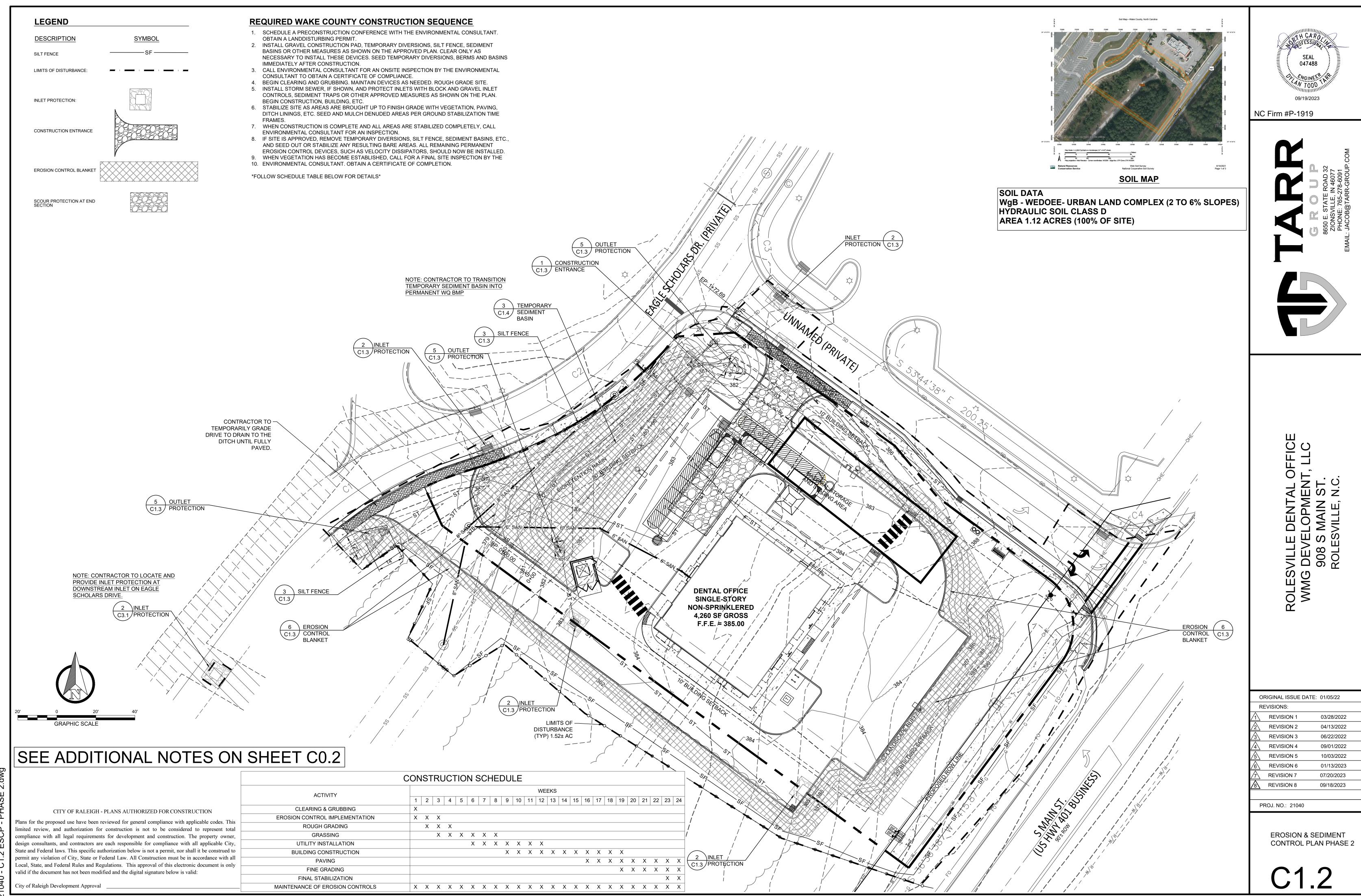
DEMOLITION PLAN

C0.5

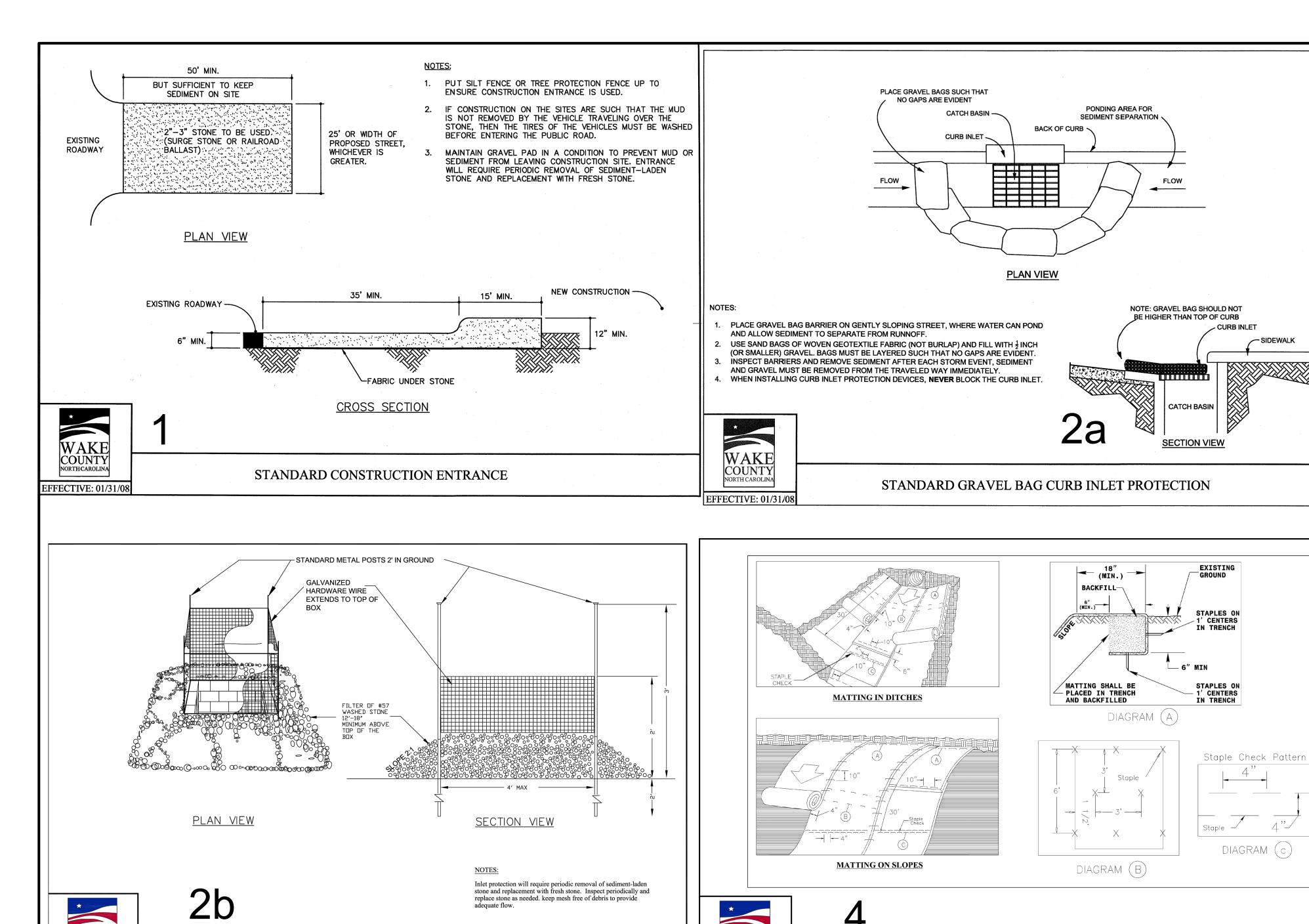




IF THIS SHEET DOES NOT MEASURE 24"x36" IT HAS BEEN ENLARGED OR REDUCED. PLEASE ADJUST SCALE ACCORDINGLY

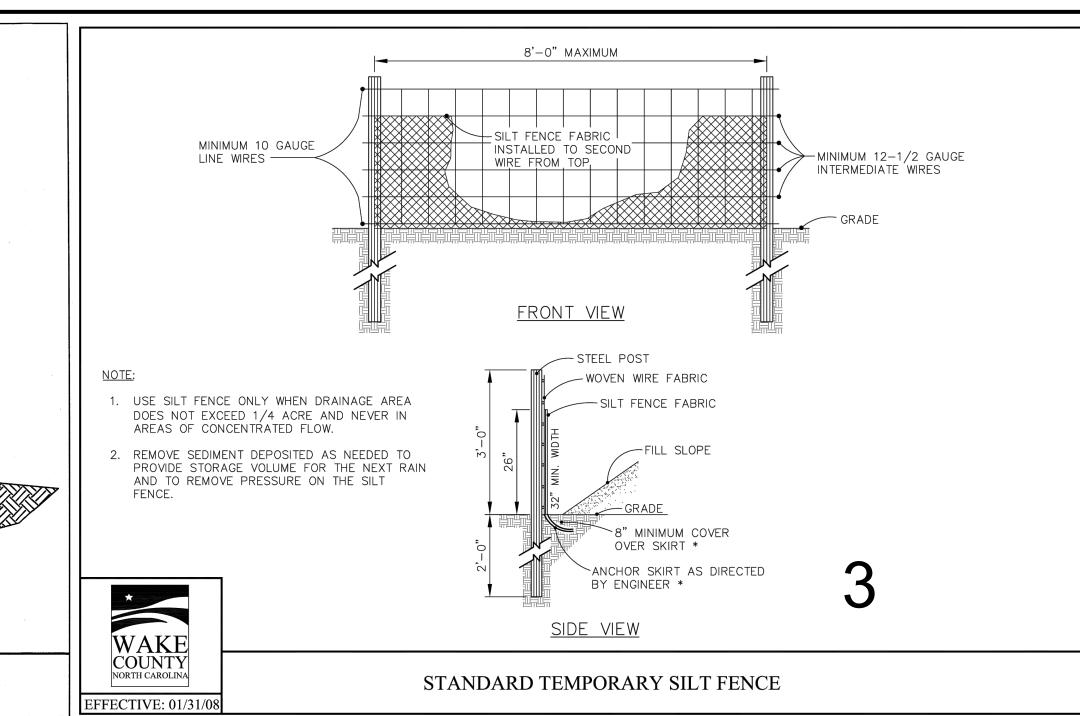


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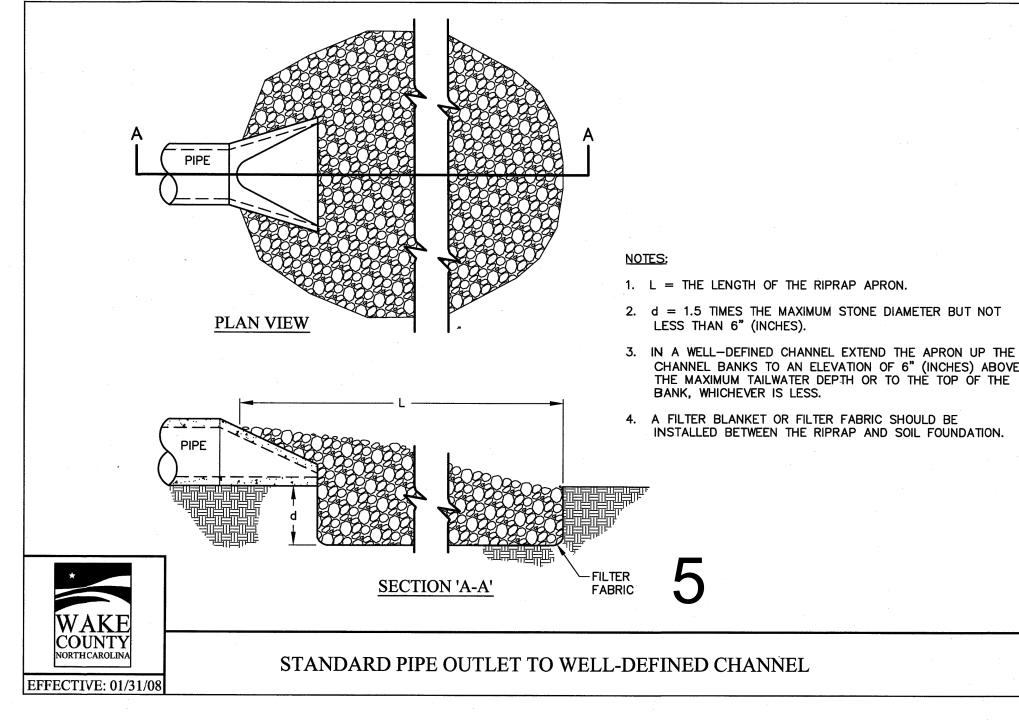


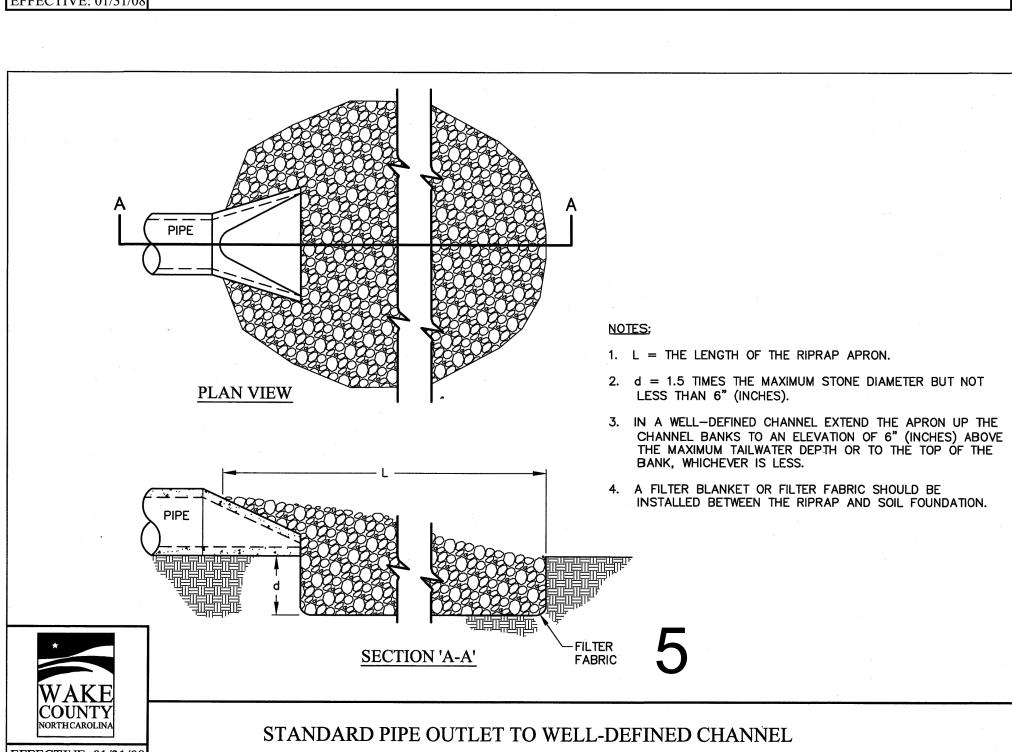
COUNTY

NORTH CAROLINA



-SIDEWALK







047488

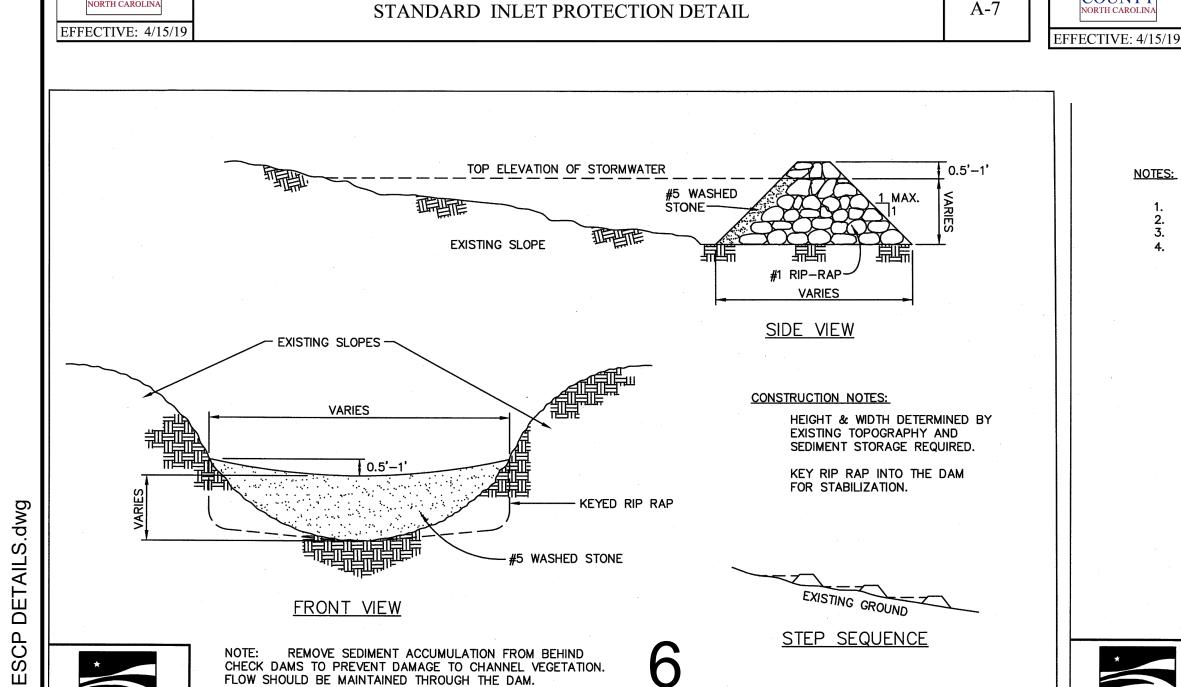
09/19/2023

NC Firm #P-1919

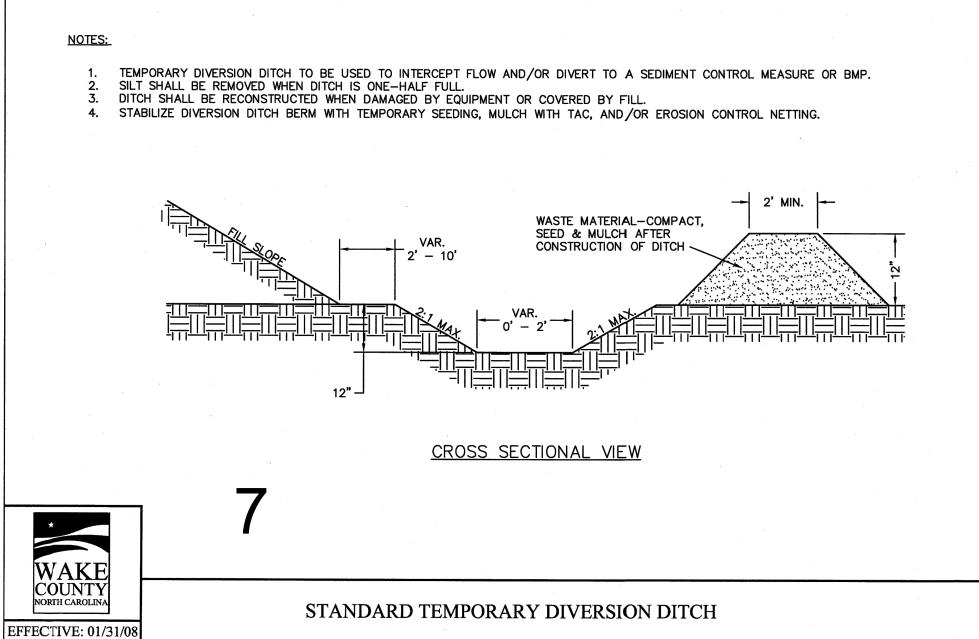
ORIGINAL ISSUE DATE: 01/05/22				
RI	EVISIONS:			
1	REVISION 1	03/28/2022		
2	REVISION 2	04/13/2022		
3	REVISION 3	06/22/2022		
4	REVISION 4	09/01/2022		
<u>5</u>	REVISION 5	10/03/2022		
<u>6</u>	REVISION 6	01/13/2023		
$\overline{\wedge}$	REVISION 7	07/20/2023		
8	REVISION 8	09/18/2023		

PROJ. NO.: 21040

EROSION AND SEDIMENT CONTROL **DETAILS**



STANDARD CHECK DAM



ROLLED EROSION CONTROL PRODUCT INSTALLATION DETAIL

IF THIS SHEFT DOES NOT MEASURE 24"x36". IT HAS BEEN ENLARGED OR REDUCED. PLEASE ADJUST SCALE ACCORDINGLY.

COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/0

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

SECTION E: GROUND STABILIZATION

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

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

Temporary Stabilization

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

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

sufficient to restrain erosion

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 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.

to a recycling or disposal center that handles these materials.

- Identify leaks and repair as soon as feasible, or remove leaking equipment from the
- 4. 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. 6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products

ITTER. 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. 9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

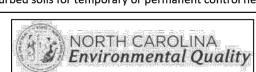
- Do not dump paint and other liquid waste into storm drains, streams or wetlands. 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area
- Containment must be labeled, 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 MANAGEMEN

- 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
- 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.
- l. 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.



ONSITE CONCRETE WASHOU STRUCTURE WITH LINER 2. THE CONCRETE VASHOUT STRUCTURES SHAL BE HADITAINED WHEN THE LIQUID AND/OR SOLID REACHES 75X OF THE STRUCTURES 3.CONCRETE VASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED VITH SIGNAGE NOTING DEVICE. 3.CINCRETE VASHBUT STRUCTURE NEEDS TO BE CLEARY MARKED VITH SIGNAGE NOTING DEVICE. ABOVE GRADE WASHOUT STRUCTURE

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

components when no longer functional. When utilizing alternative or proprietary

- 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
- 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

- 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. 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

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

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 of holiday periods, and no individual-day rainfall information available, record the cumulative rain measurement for those us attended days (and this will determine if a site inspection needed). Days on which no rainfall occurred shall be recorded a "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	Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has lef the site limits, 2. Description, evidence, and date of corrective actions taken, an 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit
(6) Ground stabilization measures	After each phase of grading	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).

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

Documentation that the required ground stabilization

timeframe or an assurance that they will be provided as

SELF-INSPECTION, RECORDKEEPING AND REPORTING

ECTION B: RECORDKEEPIN 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

2. Additional Documentation to be Kept on Site

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

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records. 3. Documentation to be Retained for Three Years

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

PART 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 dowr for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

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

NORTH CAROLINA Environmental Quality

SELF-INSPECTION, RECORDKEEPING AND REPORTING

.. Occurrences that Must be Reported

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

. Reporting Timeframes and Other Requirements

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

deposition in a stream or wetland (b) Oil spills and release of hazardous location of the spill or release substances per Ite 1(b)-(c) above

(d) Unanticipated

bypasses [40 CFR

122.41(m)(3)]

may endanger

environment[40

CFR 122.41(I)(7)]

health or the

Occurrence

Reporting Timeframes (After Discovery) and Other Requirements (a) Visible sediment • 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 Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and

(c) Anticipated A report at least ten days before the date of the bypass, if possible bypasses [40 CFF The report shall include an evaluation of the anticipated quality and 122.41(m)(3)]

- effect of the bypas: 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 Within 24 hours, an oral or electronic notification. with the conditions • Within 7 calendar days, a report that contains a description of the of this permit that noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and

prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).

Division staff may waive the requirement for a written report on a

EFFECTIVE: 04/01/19

of a new responsible party for that stockpile.

COUNTY

EFFECTIVE: 01/31/0

ORANGE, UV RESISTANT HIGH TENSILE STRENGTH POLYETHYLENE LAMINAR BARRICADE FABRIC -TO POST MINIMUM — 1.33 lbs/LF STEEL POST MINIMUM COUNTY STANDARD TREE PROTECTION FENCE DETAIL A-11 EFFECTIVE: 4/15/19

FENCE MATERIAL

Required Wake County Basin Removal Sequence

(2 to 3.5 feet above grade)

Skimmer Basin

0.82 Drainage Area (Acres)

1476 Required Volume (ft³)

24.0 Suggested Width (ft)

48.0 Suggested Length (ft)

Trial Depth (ft)

29 Bottom Width (ft)

23 Bottom Length (ft)

667 Bottom Area (ft²)

2054 Actual Volume (ft³)

1435 Actual Surface Area (ft²)

Trial Weir Length (ft)

10.6 Spillway Capacity (cfs)

1.5 Skimmer Size (inches)

0.125 Head on Skimmer (feet)

3.21 Dewatering Time (days)

Suggested Trial Depth of Flow (ft)

0.75 Orifice Size (1/4 inch increments)

Required 3 to 5 days for Wake County

1153 Required Surface Area (ft²)

Trial Side Slope Ratio Z:1

2.65 Peak Flow from 10-year Storm (cfs)

Trial Top Width at Spillway Invert (ft)

Trial Top Length at Spillway Invert (ft)

- 1. Schedule a site meeting with the Environmental Consultant to determine if a basin can be removed. Install silt fencing or other temporary erosion control measures as needed prior to removal of the basin.
- 2. Contact NCDEQ Raleigh Regional Office (919) 791-4200 to determine the Division of Energy, Mineral and Land Resources contact person to receive dewatering notifications. At least 10 days prior to beginning dewat activity, send Email to NCDEQ-DEMLR contact person and copy Environmental Consultant that met you onsite. The email should include: E&SC Jurisdiction: Wake County, Wake County Project: Name, Number, and Location (city/town), Environmental Consultant Name, and address the following: a)Reason for conversion, b)Basin #, c)Dewatering method, and d) all other necessary info from Part II, Section G, Item 4 of the NCG01. (keep email for your NPDES monitoring documentation
- . After receiving positive confirmation from NCDEQ-DEMLR that you may remove the basin OR on ≥ Day 11, whichever is sooner. Remove Basin(s) and associated temporary diversion ditches. If pipes need to be extended, perform this operation at this time. Fine grade area in preparation for
- 4. Perform seedbed preparation, seed, mulch and anchor any resulting bare areas immediately
- 5. Install velocity dissipators and/or level spreaders as required on the **Erosion Control Plan.**
- 6. When site is fully stabilized, call Environmental Consultant for approval of removing remaining temporary erosion control measures and advice on when site can be issued a Certificate of Completion. Note: A meeting should also be scheduled with the Environmental Consultant to determine when a basin may be converted for stormwater use. Some municipalities may also require this.

*		тец 919 856 7400 FAX: 919 743 4772
WAKE	Environmental	Sedimentation & Erosion Control
SORTH CAROLISA	Services	336 Fayetteville St. • P.O. Box 550 • Raleigh, NC 27602

Effective September 1, 2008

Soil stockpiles shall be located on the approved plan and shall adhere to the following requirements:

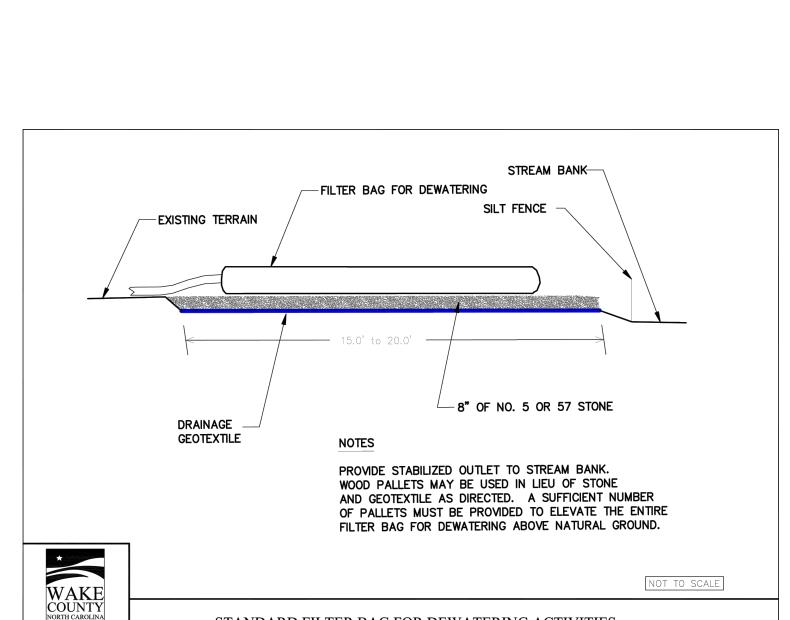
approved BMP.

- a. A 25-foot temporary maintenance and access easement shall be shown around all proposed stockpiles (erosion control measures surrounding the
- stockpile shall be shown at the outer limit of this easement). b. Stockpile footprints shall be setback a minimum of 25' from adjacent
- c. A note shall be provided on the approved plan that stockpile height shall not exceed 35 feet.
- d. Stockpile slopes shall be 2:1 or flatter.
- e. Approved BMPs shall be shown on a plan to control any potential sediment loss from a stockpile. f. Stockpiling materials adjacent to a ditch, drainageway, watercourse,
- wetland, stream buffer, or other body of water shall be avoided unless an alternative location is demonstrated to be unavailable. g. Any concentrated flow likely to affect the stockpile shall be diverted to an
- h. Off-site spoil or borrow areas must be in compliance with Wake County UDO and State Regulations. All spoil areas over an acre are required to have an approved sediment control plan. Developer/Contractor shall notify Wake County of any offsite disposal of soil, prior to disposal. Fill of FEMA Floodways and Non-encroachment Areas are prohibited except as otherwise provided by subsection 14-19-2 of the Wake County Unified Development Ordinance (certifications and permits required).

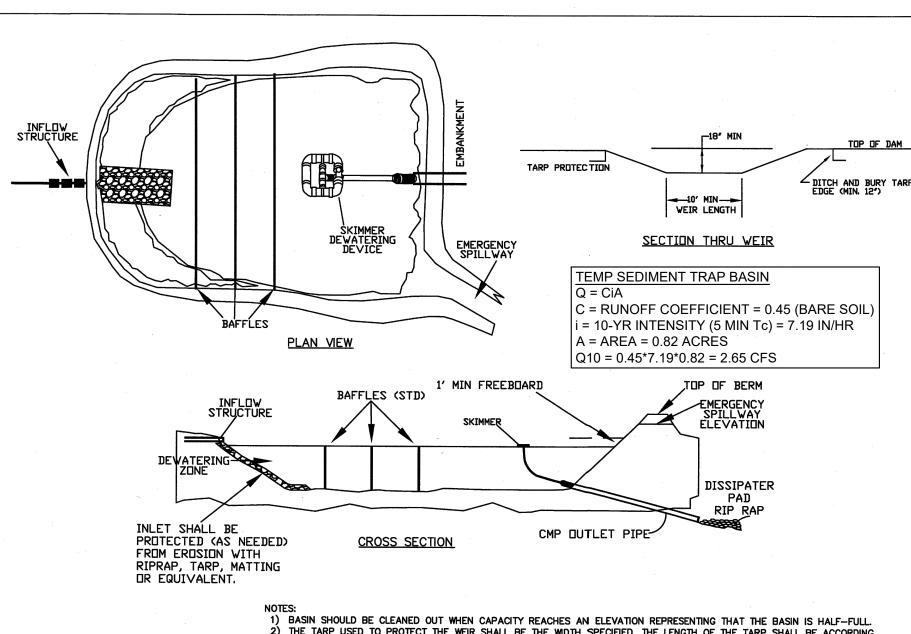
Maintenance Requirements to be Noted on the Plan . Seeding or covering stockpiles with tarps or mulch is required and will

reduce erosion problems. Tarps should be keyed in at the top of the slope to keep water from running underneath the plastic. If a stockpile is to remain for future use after the project is complete (builders, etc.), the financial responsible party must notify Wake County

- k. The approved plan shall provide for the use of staged seeding and mulching on a continual basis while the stockpile is in use.
- 1. Establish and maintain a vegetative buffer at the toe of the slope (where practical).



STANDARD FILTER BAG FOR DEWATERING ACTIVITIES



2) THE TARP USED TO PROTECT THE WEIR SHALL BE THE WIDTH SPECIFIED. THE LENGTH OF THE TARP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TARPS ARE TO BE USED, THEN TARPS SHALL BE OVERLAPPED AT LEAST 12". TI UPSTREAM 12" TARP SHALL OVERLAP THE DOWNSTREAM TARP. THE TARP SHALL BE 50 MIL. HEAVY DUTY SILVER TARPAULINS OR EQUIVALENT FOR U.V. RESISTANCE. 5) PROVIDE A MINIMUM OF THREE POROUS BAFFLES TO EVENLY DISTRIBUTE FLOW ACROSS THE BASIN, REDUCING TURBULENCE. I) BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE. 5) MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE. 6) DURING THE CONSTRUCTION PHASE OF THE PROJECT, PERMANENT STORMWATER RISER SHALL ONLY DEWATER FROM THE TOP OF PIP
7) POND SHALL NOT BE CONVERTED FOR STORMWATER USE UNTIL APPROVED BY ENVIRONMENTAL ENGINEER. STANDARD SKIMMER BASIN



NC Firm #P-1919

1. All plants designated to be saved shall be protected by

. Install tree protection fence at tree drip line or at edge of

disturbed area, as shown on plans, prior to commencement

300 feet. The size of each sign must be a minimum of 2'

Space tree protection zone signs a minimum of one every

2' and be visible from both sides of the fence. The sign

must contain the following language in both english &

4. There shall be no storage of material within the boundaries

of the tree protection fencing.

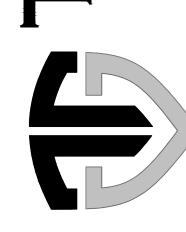
Tree protection fencing shall be maintained throughout the

"TREE PROTECTION ZONE, KEEP OUT".

fencing, as illustrated.

duration of the project.

of construction.

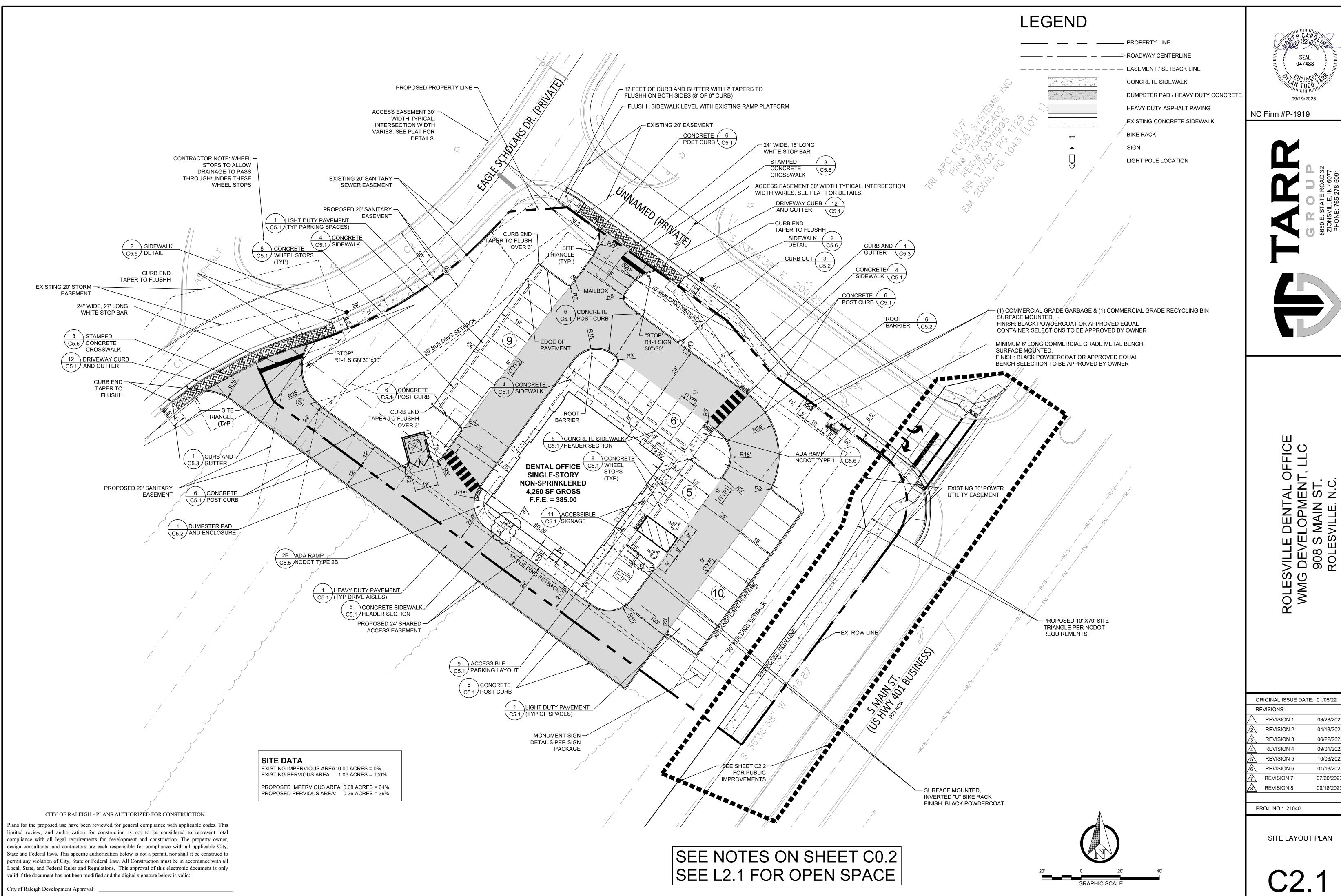


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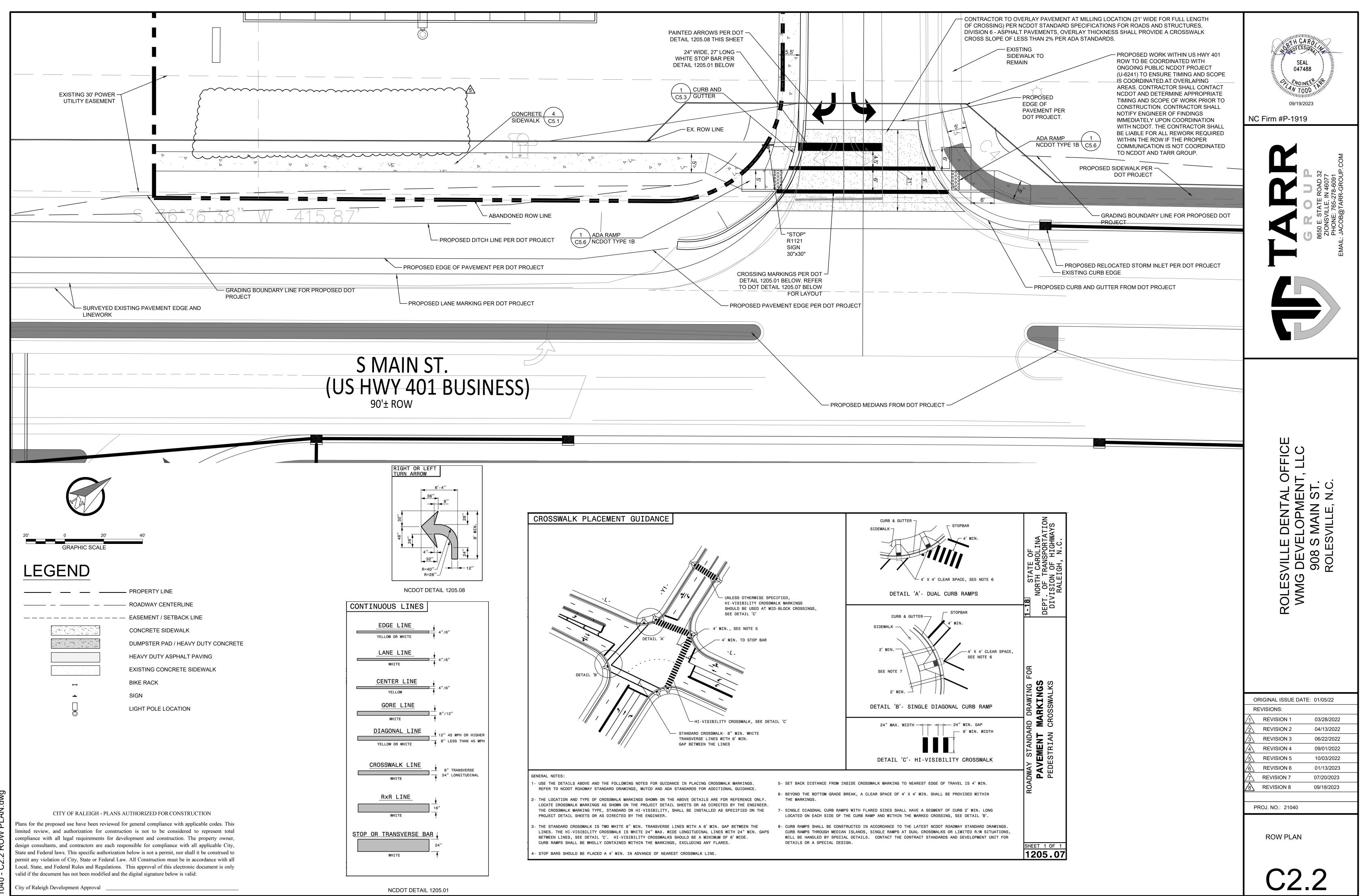
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EROSION AND SEDIMENT CONTROL **DETAILS**

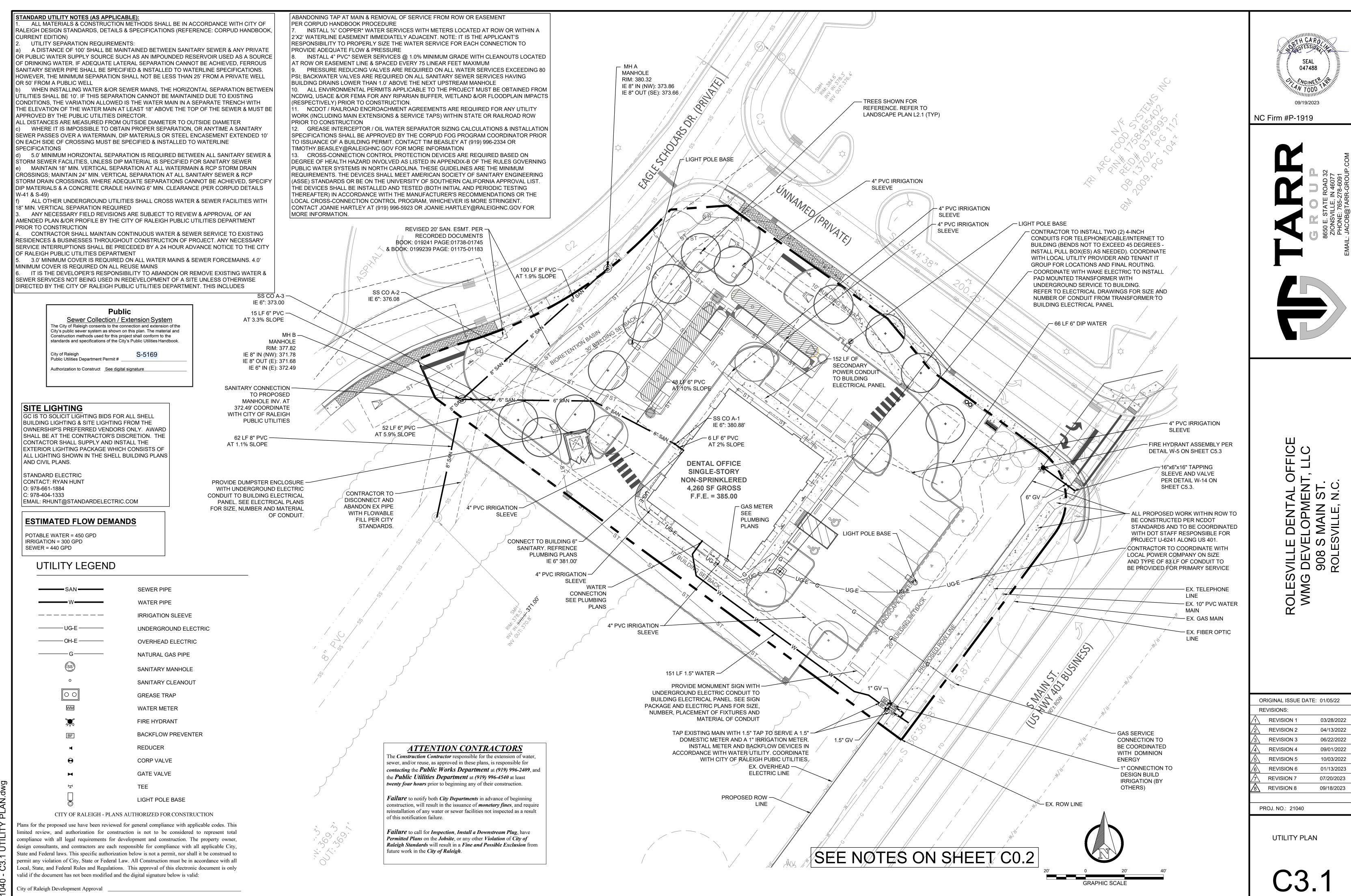


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SITE LAYOUT PLAN



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SANITARY SEWER INSTALLATION NOTE

HOURS OF THE BOJANGLES.

CONTRACTOR TO CONSTRUCT THE PROPOSED STRUCTURES AND PIPE BEFORE DISCONNECTING THE EXISTING PIPE. CONTRACTOR TO PERFORM CONNECTION DURING NON-PEAK HOURS. CONTRACTOR TO COORDINATE CONNECTION INTERRUPTION WITH THE BOJANGLES TO PERFORM WORK DURING THE CLOSED

CONTRACTOR TO MAINTAIN MINIMUM COVER OF 3' OVER TOP OF PIPE AS REQUIRED BY UTILITY.



NC Firm #P-1919



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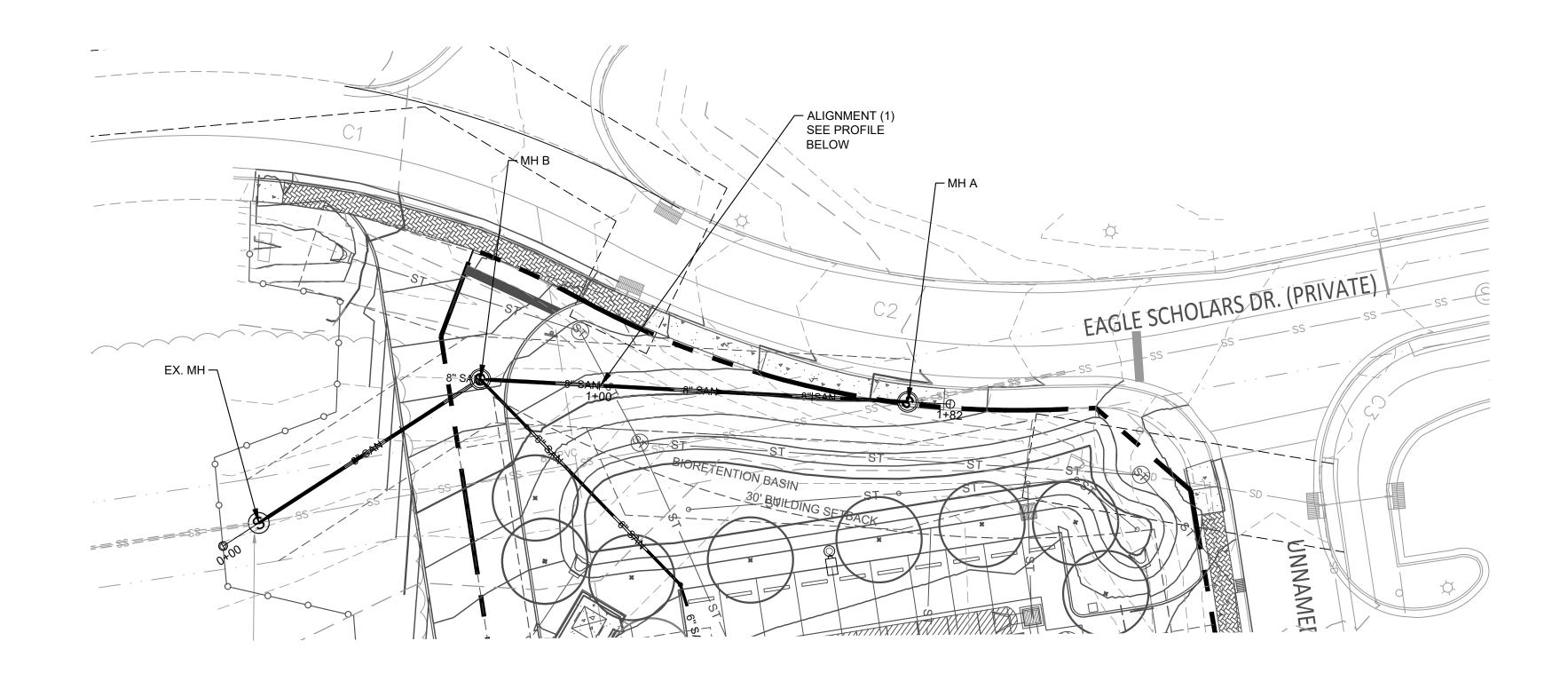
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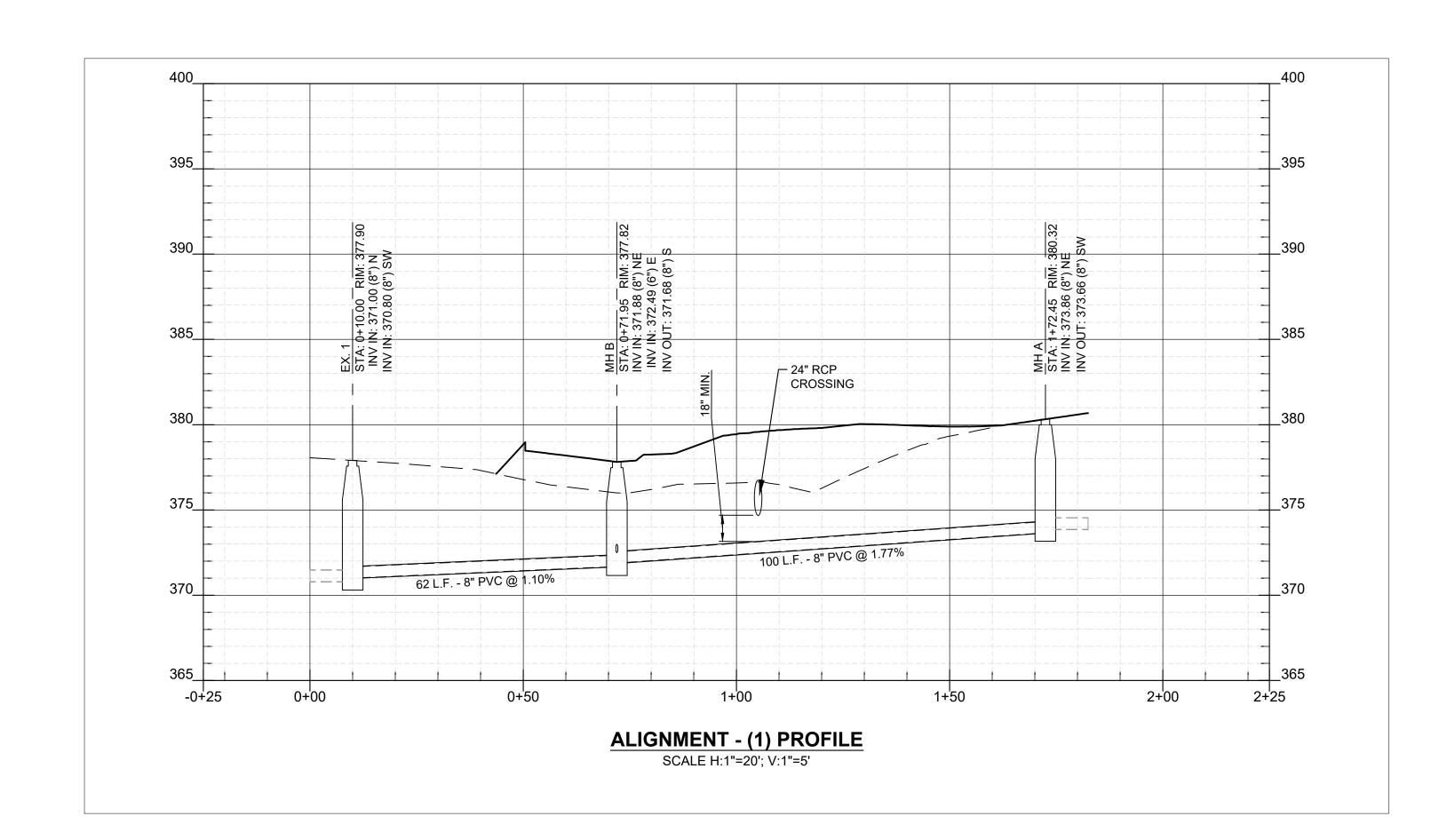
09/18/2023

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REVISION 8

UTILITY PROFILE





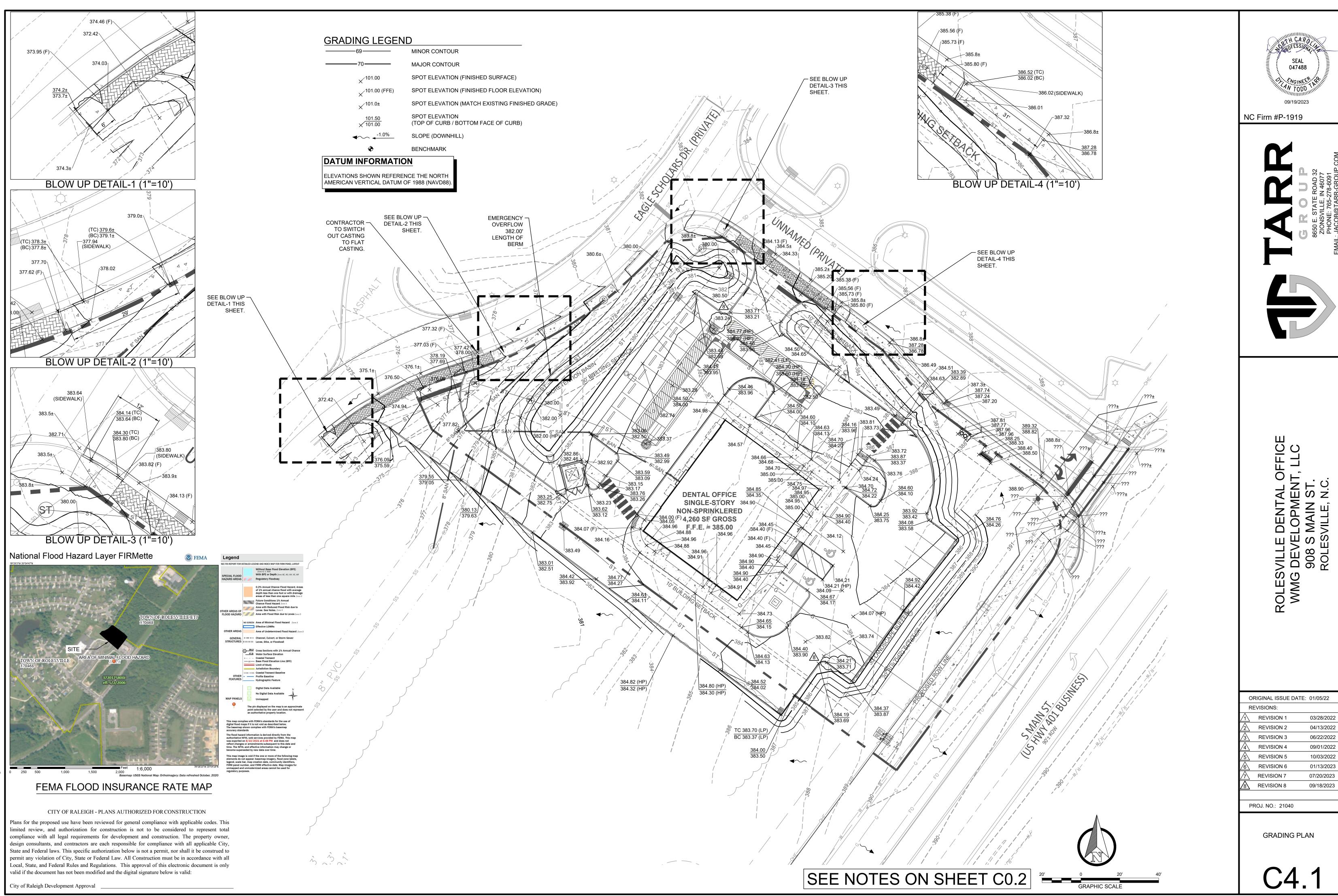
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DRAINAGE PLAN

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BIORETENTION MDC REQUIREMENT PARAMETERS:

- 1. SEPARATION FROM SHWT IS 3.2 FEET FROM THE BOTTOM OF MEDIA MEETING THE REQUIREMENT OF
- OVER TWO FEET AS SHOWN IN PROFILE BELOW.

 2. MAX DEPTH FOR THE DESIGN VOLUME IS 1' ABOVE BOTTOM OF THE . WATER QUALITY VOLUME ELEVATION
- IS 381.00. THIS PROVIDES APROX. 3,500 CUBIC FEET OF STORAGE WHICH IS MORE THAN THE REQUIRED 2,523 CUBIC FEET WATER QUALITY VOLUME. DRAWDOWN IS GREATER THAN 2,600 CF IN THE 2-5 DAY DESIGN PERIOD THROUGH THE SUBGRADE AND UNDERDRAIN. MEDIA SQUARE FOOTAGE = 1,386.
- 3. PEAK ATTENUATION VOLUME MAXIMUM WATER ELEVATION IS 381.97 FEET WHICH IS LESS THAN 24 INCHES ABOVE BOTTOM OF MEETING THE 24" MAXIMUM REQUIREMENT. THE OUTLET RIM ELEVATION IS 1.1 FEET ABOVE PLANTING SURFACE MEETING THE 18" MAXIMUM REQUIREMENT.
- 4. THE UNDERDRAIN WILL BE PROVIDED FOR THIS AREA AS 2 IN/HR INFILTRATION IS NOT MET IN SOME PLACES. A MAJORITY OF THE AREA WILL HAVE AN INFILTRATION RATE OF 3 IN/HR PER THE INFILTRATION TESTING RESULTS. INTERNAL WATER STORAGE (IWS) OF 18" BELOW PLANTING SURFACE IS PROVIDED. SEE OULTET CONTROL STRUCTURE DETAIL BELOW.
- 5. MEDIA DEPTH IS DESIGNED AT 36 INCHES WITH AN INTERNAL WATER STORAGE COMPONENT.
- MEDIA MIX IS AS SHOWN BELOW IN THE BIORETENTION TYPICAL CROSS SECTION DETAIL.
 THE PHOSPHORUS INDEX (P-INDEX) SHALL NOT EXCEED 30 (DRAINS TO NSW WATERS) AS DEFINED IN 15A
- NCAC 02B .0202 AS NOTED IN NOTE 9 OF THE BIORETENTION TYPICAL CROSS SECTION NOTES.

 8. NO MECHANICALLY COMPACTED MEDIA OR SUBGRADE IS ALLOWED PER THIS DESIGN.
- 9. MAINTENANCE OF THE MEDIA WILL BE PER O&M MANUAL FOR THE SITE WHICH REQUIRES A MAINTENANCE OF AT LEAST 1 INCH PER HOUR INFILTRATION RATE. PLEASE SEE O&M MANUAL.
- 10. LANDSCAPING IS USING NON-CLUMPING, DEEP ROOTED SOD. PLANTING AND SEEDING PER LANDSCAPE PLAN ON SHEET L2.1. ASSOCIATED DETAILS PROVIDED ON L5.1.
- 11. SOD IS BEING USED FOR THIS DESIGN, NO MULCH REQUIRED.
- 12. CLEANOUTS ARE PROVIDED AT THE END OF EACH UNDERDRAIN. PVC PIPES EXTEND AT LEAST 2 FEET OUT OF THE GROUND WITH CAPS AS REQUIRED.

METAL FRAME & -GRATE COVER PER CB NCDOT STANDARDS **INFLOW** RIM ELEV. 381.10. — PLAN METAL FRAME & — GRATE COVER PER NCDOT STANDARDS DRAINAGE STRUCTURE IWS ELEV. 378.50 STEPS NCDOT 18" OUT -4"X4"X4" TEE WITH -4" PERFORATED -OUTFLOW UNDER DRAIN CONNECTION (CORED) IE. 378.50 **SECTION Y-Y SECTION X-X**

BIORETENTION OUTLET CONTROL STRUCTURE OCS 3.2

WATER QUALITY VOLUME WSE = 381.00 **EMBANKMENT** MAX WSE = 381.97 36 INCHES OF EXISTING GRADE SPILLWAY ELEVATION = 382.00 BIORETENTION BOTTOM OF = 380.00 CLEANOUT MEDIA PER DETAIL BOTTOM OF MEDIA = 377.00 PROPOSED GRADE -THIS SHEET SHWT ELEVATION = 374.0± - EMERGENCY IWS ELEVATION = 378.50 CAPPED CLEANOUT OVERFLOW 1-YR PEAK WSE = 381.35 RIM 2' ABOVE BED QUALITY VOLUME **ELEVATION** = 382.00 10-YR PEAK WSE = 381.61 **BETWEEN 380.00** 100-YR PEAK WSE = 381.97 AND 381.00 - MAX WSE = 381.97 BTM OF BASIN = 380.00 WATER QUALITY VOLUME WSE 381.00. - NO MECHANICAL COMPACTION ALLOWED FOR MEDIA OR SUBGRADE. OUTLET CONTROL THE MEDIA SHALL NOT BE WATERED OR STRUCTURE CB 3.2 WALKED ON IT AS IT IS PLACED. RIM = 381.10'(NO ORIFICE, <u>6" PERFORATED -</u> UNDERDRAIN ONLY) UNDERDRAIN 6" SAN. — 18" HDPE -APPROXIMATE SHWT **ELEVATION OF**

BIORETENTION PROFILE

SCALE H:1"=20'; V:1"=4'

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

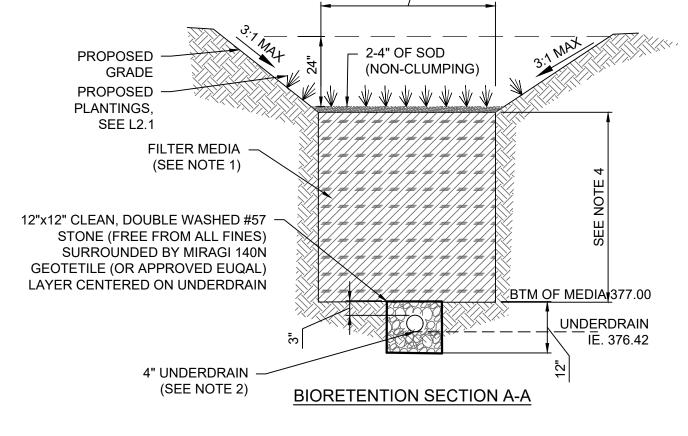
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FOLLOW ALL NC DEQ MANUAL STANDARDS AND DETAILS FOR CONSTRUCTION OF BIORETENTION AND INFILTRATION BMPS

CONTRACTOR TO AVOID RUNNING OVER BIORETENTION BASIN AREA WITH HEAVY MACHINERY TO AVOID

OVER COMPACTION IMPACTING THE SOILS INFILTRATION RATES.



NOTES:

- 1. FILTER MEDIA SHALL CONSIST THE FOLLOWING: 70%-85% SAND; 8%-10% SILT + CLAY, WITH NO MORE THAN 10% CLAY; AND 5% TO 10% ORGANIC MATTER. FILTER MEDIA SHALL HAVE A CATION EXCHANGE CAPACITY OF GREATER THAN 10 meq/100 g, AND A MINIMUM INFILTRATION RATE OF 1 TO 2 INCHES PER HOUR. A RATIO OF 50% SAND, 30% TOPSOIL AND 20% ACCEPTABLE LEAF COMPOST IS RECOMMENDED FOR TREE PLANTING AREAS. (ASTM C33, AASHTO M 6/M 80, ASTM C330, AASHTO M195, OR EQUIVALENT.)
- 2. UNDERDRAIN SHALL BE 6 INCH CORRUGATED HDPE PIPE WITH $\frac{3}{8}$ " PERFORATIONS AT 6" ON CENTER, WITH A MINIMUM OF 4 HOLES PER ROW AROUND THE CIRCUMFERENCE OF THE PIPE. SLOPE PIPE AT 0.5% MINIMUM.
- PROVIDE CLEANOUTS AT THE END OF UNDERDRAIN LINES.
 FILTER MEDIA DEPTH SHALL BE 36-INCHES DEEP MINIMUM FOR BIORETENTION.
- 5. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS DURING EACH PHASE OF INSTALLATION TO DEMONSTRATE PROPER MEDIA AND GRAVEL DEPTHS WERE INSTALLED PER PLANS.
- 6. BIORETENTION FACILITY MUST MEET ALL REQUIREMENTS FROM THE NCDEQ STORMWATER DESIGN MANUAL. SEE C-2 BIORETENTION CELL FOR MORE INFORMATION. REFERENCE MDC REQUIREMENTS ABOVE FOR FURTHER
- CLEAN OUTS SHALL BE PROVIDED AT THE END OF EACH UNDERDRAIN WITH A CAP AT A MIN. 2' ABOVE PLANT SURFACE (CAP ELEV. 382.00)
- CONTRACTOR TO SUBMIT SOIL MEDIA SAMPLE FOR APPROVAL TO NC DEPARTMENT OF AGRICULTURE LAB OR EQUIVALENT FOR PHOSPHORUS INDEX (P-INDEX) ANALYSIS. P-INDEX SHALL NOT EXCEED 30 (DRAINS TO NSW WATERS) AS DEFINED IN 15A NCAC 02B .0202. SUBMIT P-INDEX RESULTS TO ENGINEER PRIOR TO CONSTRUCTION.

BIORETENTION TYP. CROSS SECTION



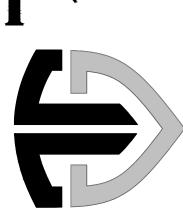
WIDTH VARIES SEE GRADING PLAN



NC Firm #P-1919

GROUP.

8650 E. STATE ROAD 32
ZIONSVILLE, IN 46077
PHONE: 765-278-6091
EMAIL: JACOB@TARR-GROUP.COM



ROLESVILLE DENTAL OFFICE WMG DEVELOPMENT, LLC 908 S MAIN ST. POI FSVILLE, N.C.

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BMP PLAN AND PROFILE

C4.3

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<u>8</u>	REVISION 8	09/18/2023		

PROJ. NO.: 21040

UNDERGROUND BMP MDC REQUIREMENTS

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CONSTRUCTION OF BIORETENTION AND INFILTRATION BMPS

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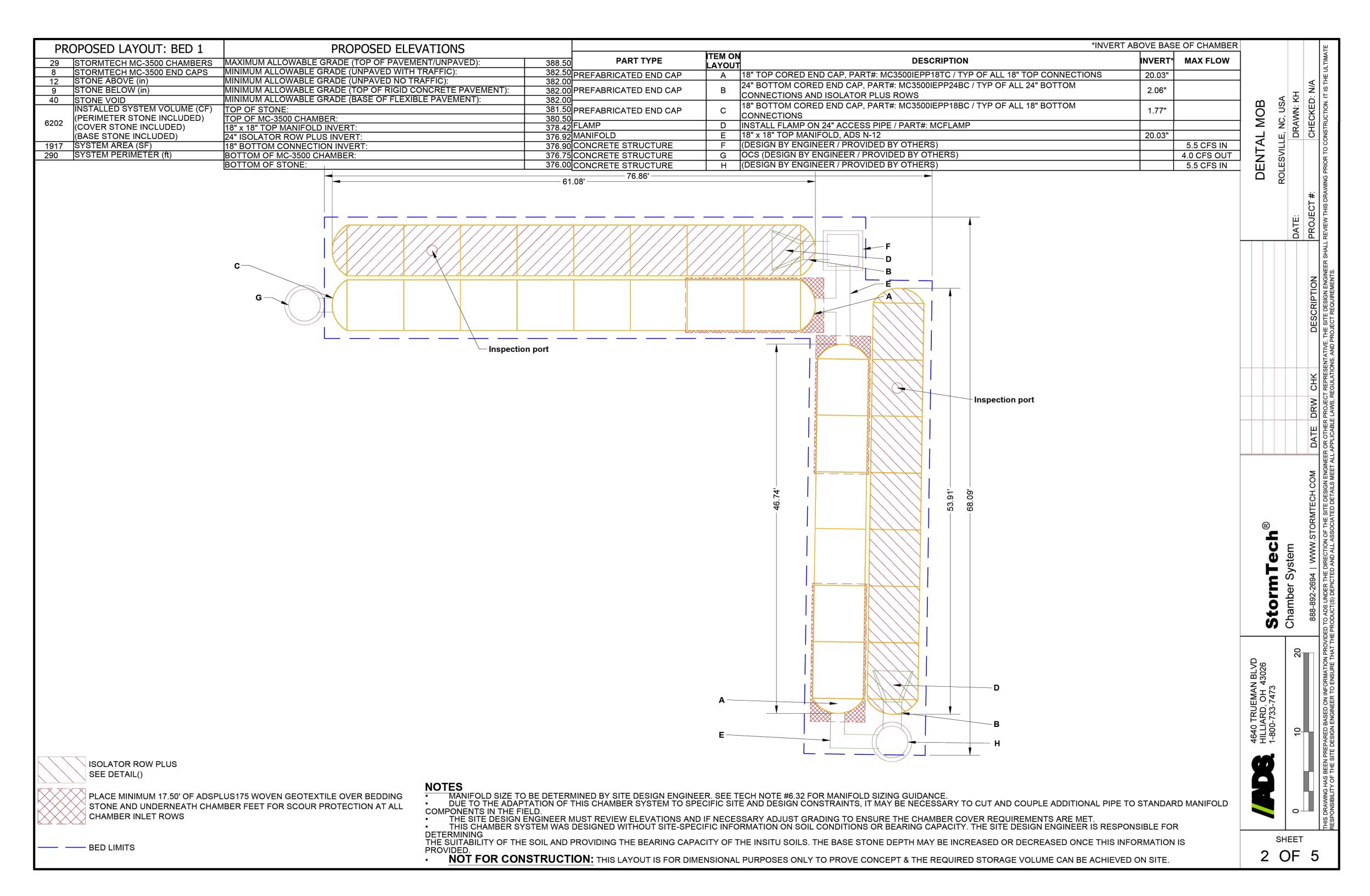
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WMG DEVELOPMENT, LLC
908 S MAIN ST.

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UNDERGROUND DETAILS

C4.5



CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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3 OF 5

UNDERGROUND DETAILS

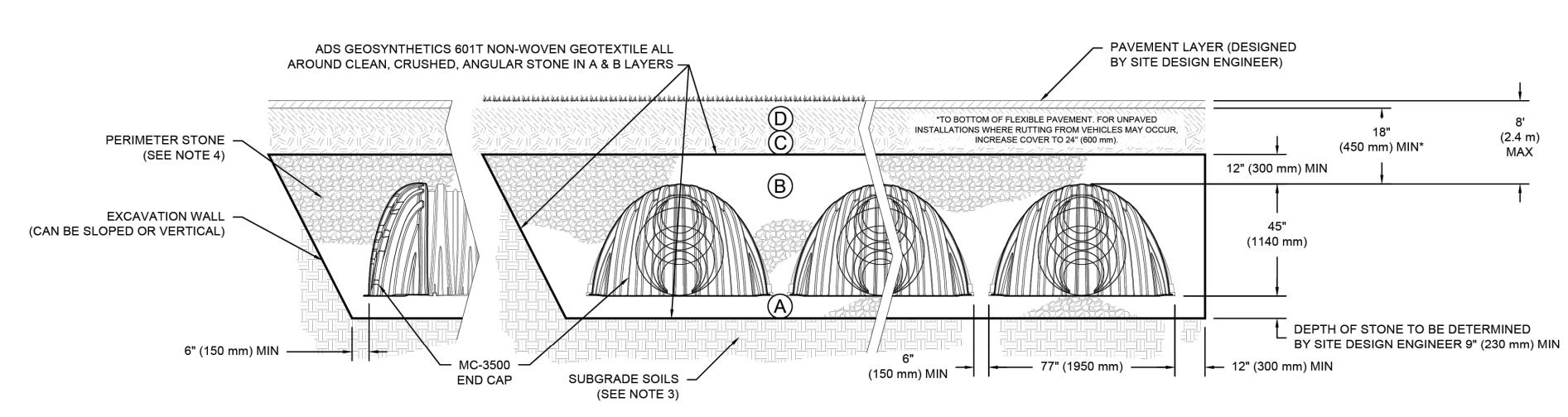
C4.6

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGNS LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FO COMPACTION REQUIREMENTS.
- 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- 2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBER
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval

Carolina Www.nc811.org

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FOLLOW ALL NC DEQ MANUAL STANDARDS AND DETAILS FOR CONSTRUCTION OF BIORETENTION AND INFILTRATION BMPS

NC Firm #P-1919

ROLESVILLE I WMG DEVEL 908 S I ROLESN

ORIGINAL ISSUE DATE: 01/05/22 **REVISION 1** 03/28/2022 04/13/2022 **REVISION 2 REVISION 3** 06/22/2022 **REVISION 4** 09/01/2022 **REVISION 5** 10/03/2022 01/13/2023 **REVISION 6 REVISION 7** 07/20/2023 **REVISION 8** 09/18/2023

PROJ. NO.: 21040

UNDERGROUND DETENTION DETAILS

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DENTAL MOB

ROLESVILLE, NC, USA

1. CHAMBERS SHALL BE STORMTECH MC-3500.

2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- 4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- 6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- 7. REQUIREMENTS FOR HANDLING AND INSTALLATION:

FROM REFLECTIVE GOLD OR YELLOW COLORS.

- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS.
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED
- 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE
- DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS: THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
- THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO
- LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE. THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- 1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
- BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.

STONESHOOTER LOCATED OFF THE CHAMBER BED.

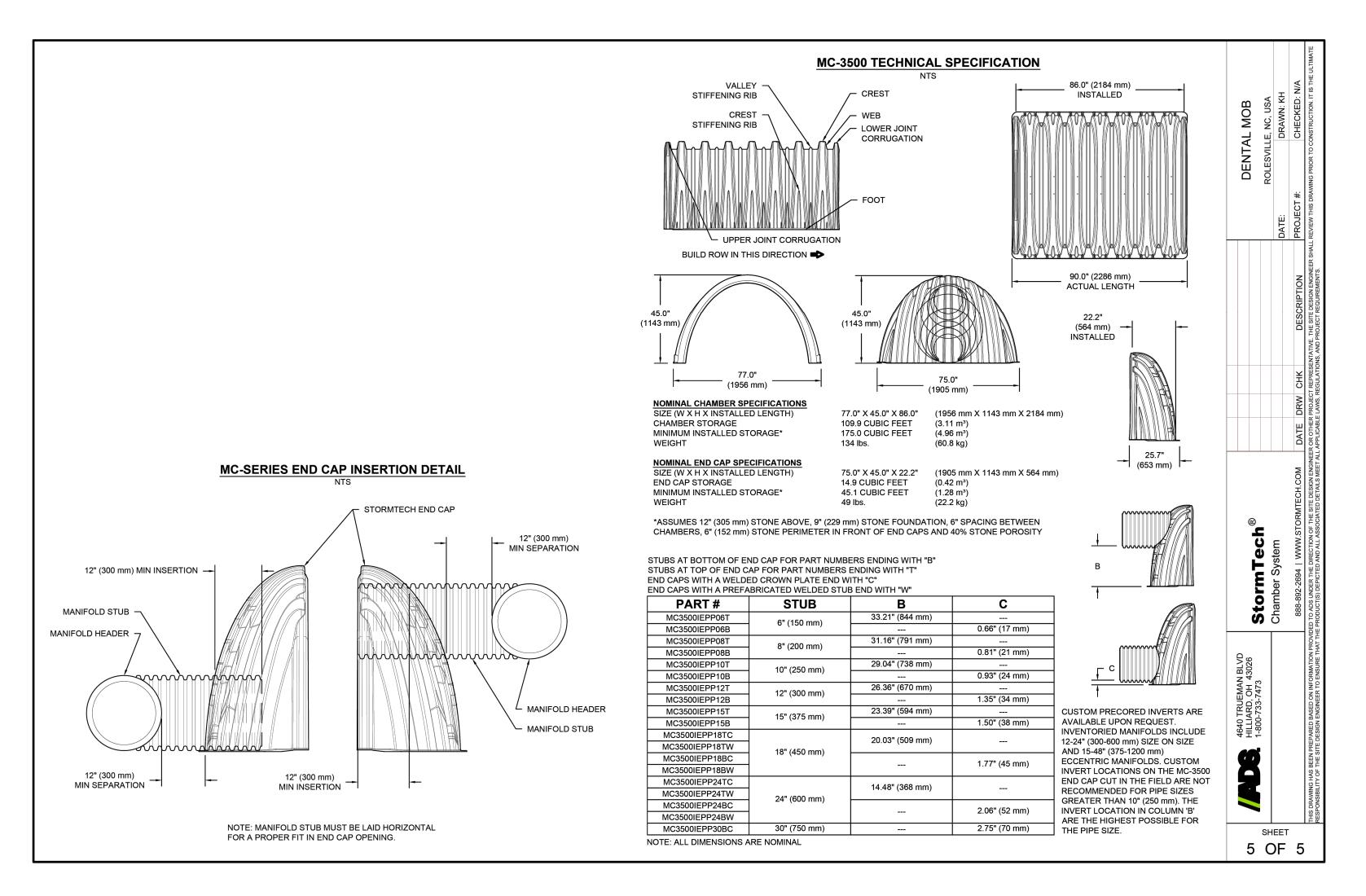
- 7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- 8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3
- 9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- 10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN
- 11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- 2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED: NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
- NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE
- WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE". WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



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047488 09/19/2023 NC Firm #P-1919

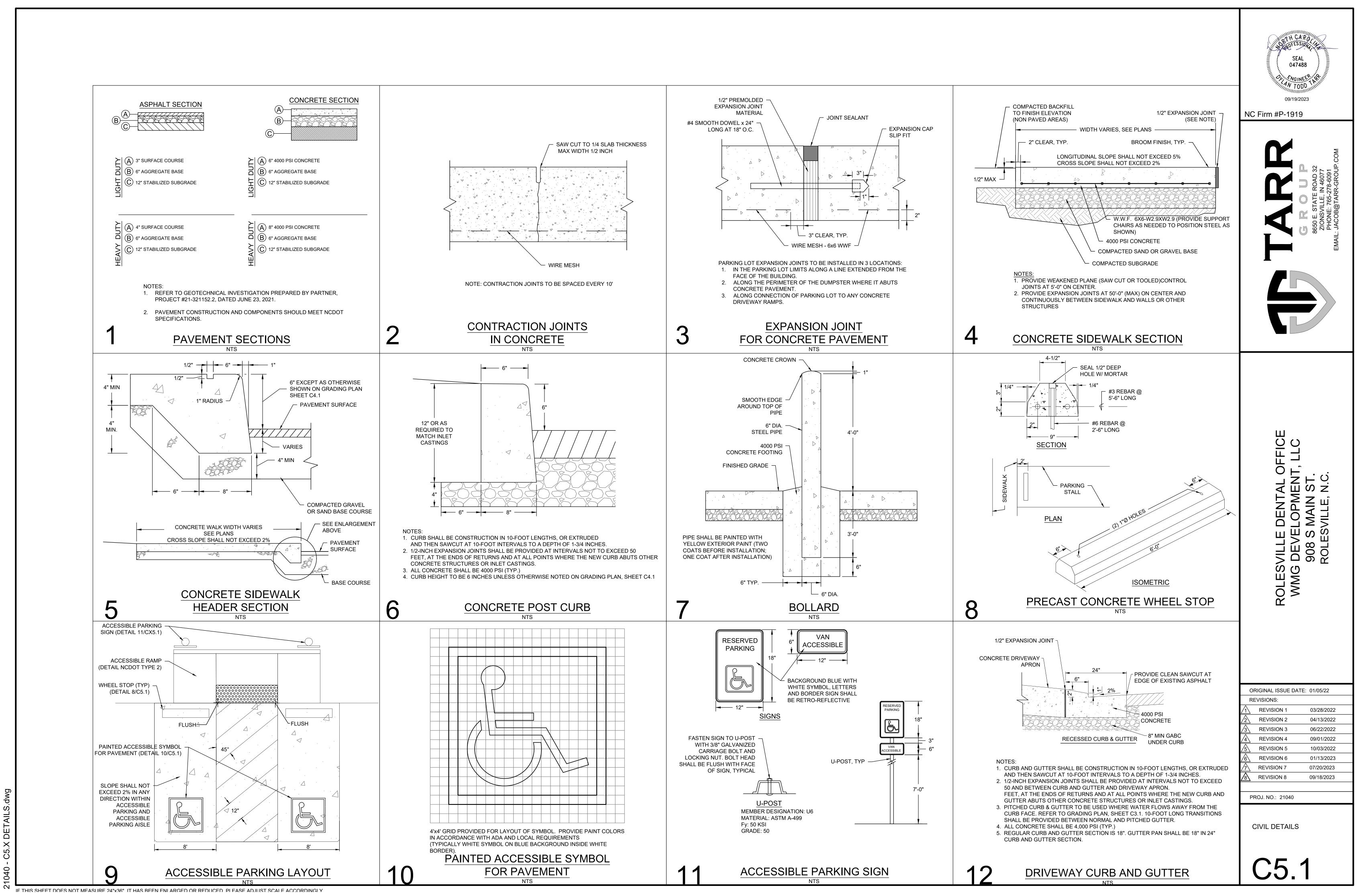


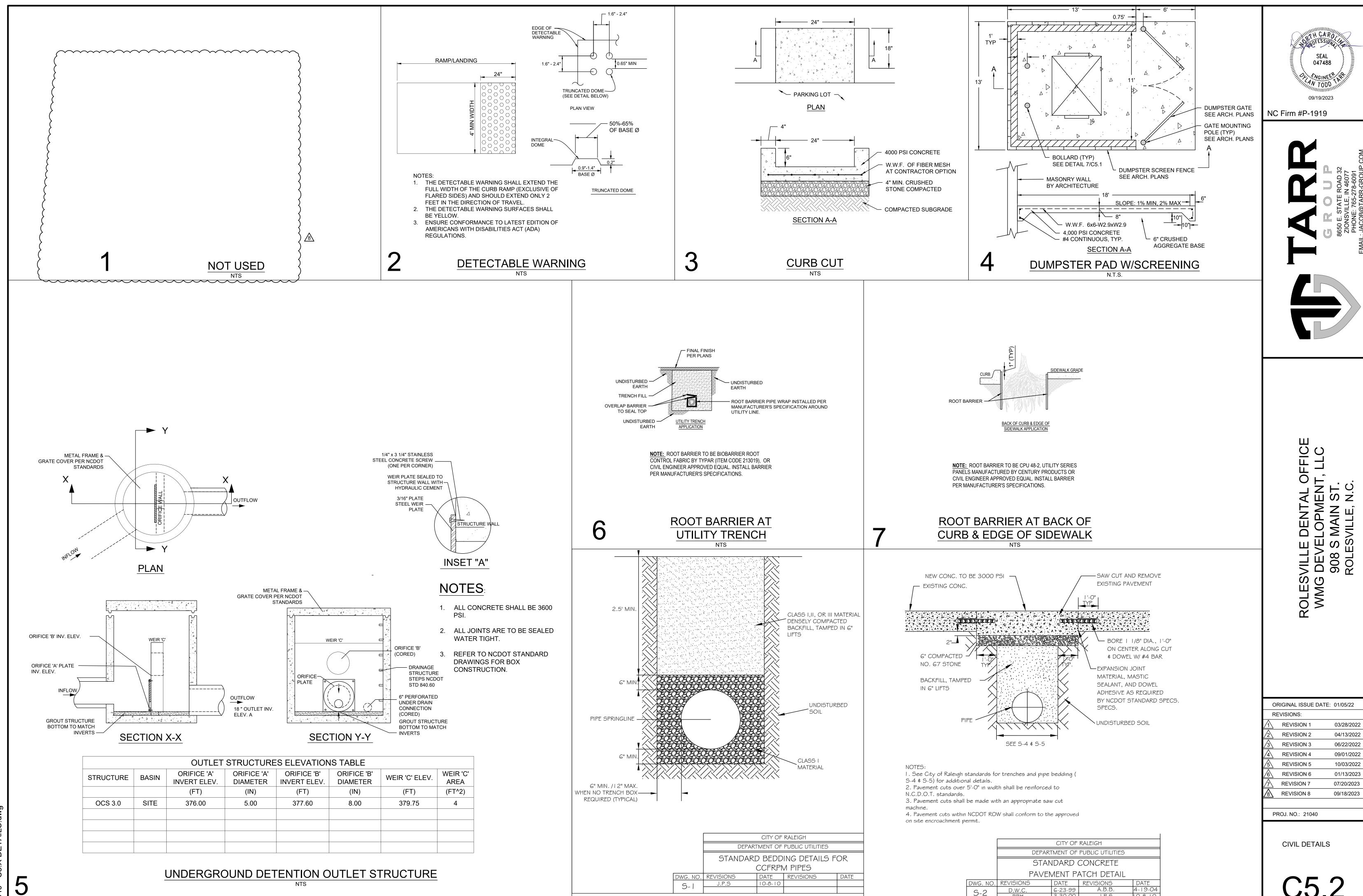
ROLESVILL WMG DEV 908 ROLE

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PROJ. NO.: 21040

UNDERGROUND DETENTION DETAILS





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COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT

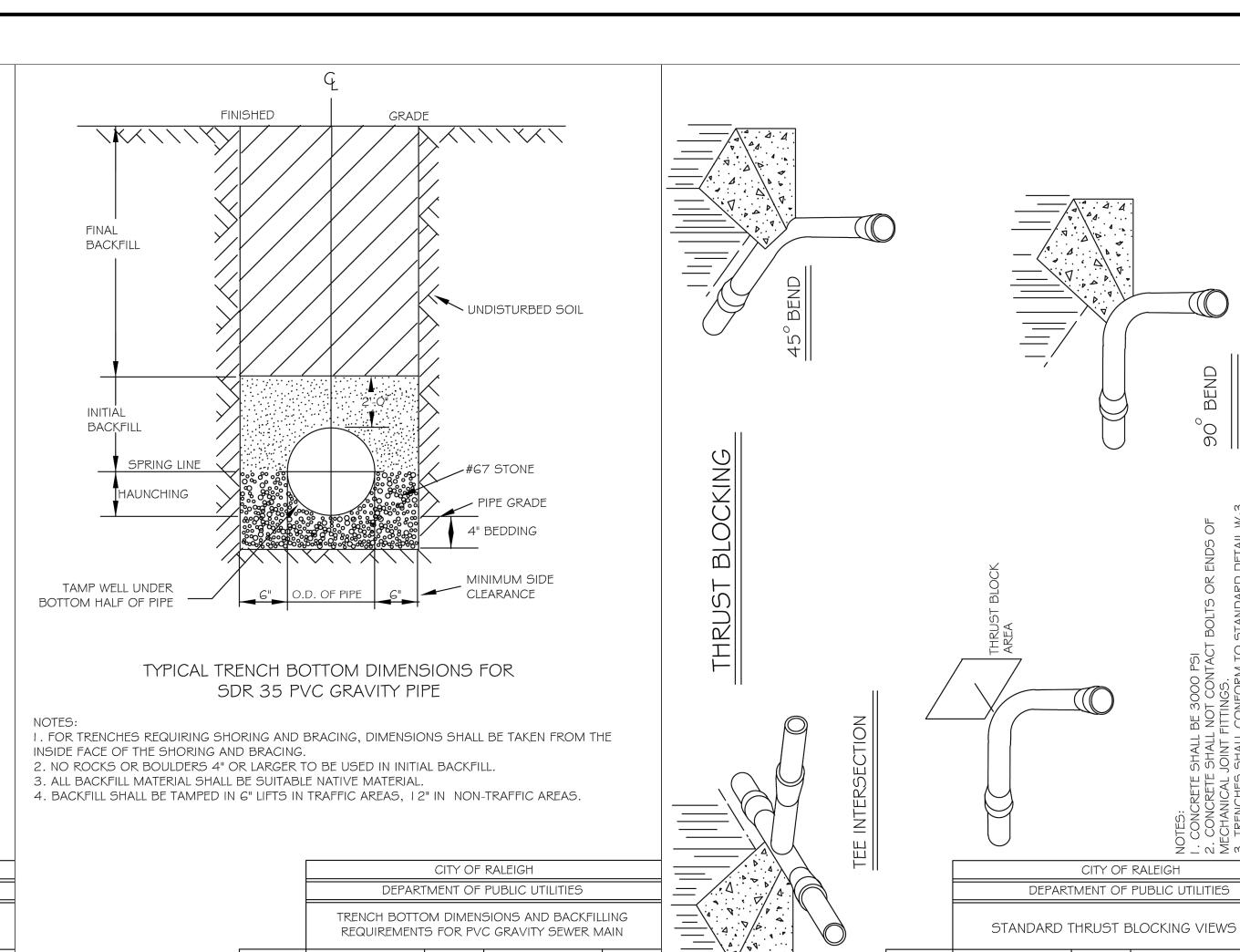
4. THE FINAL I' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT. 5. THE ENTIRE THICKNESS AND VERTICAL EDGE OF CUT SHALL BE TACKED.

6. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 2" THICK. 7. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A

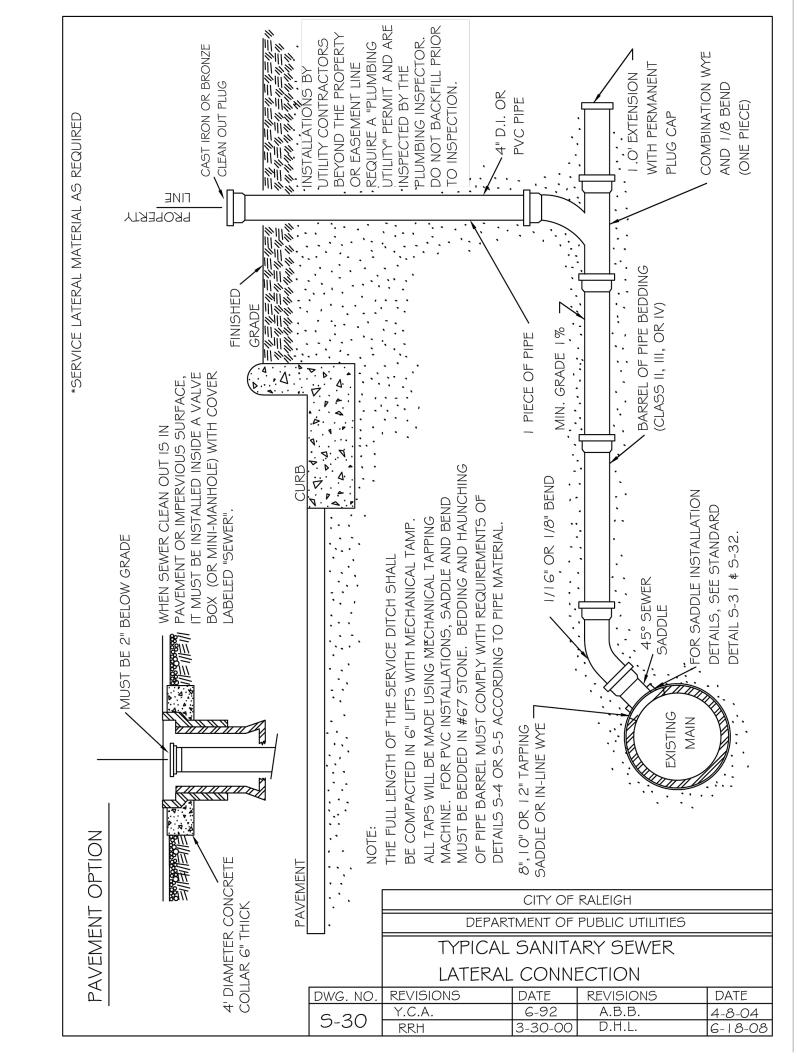
SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH. 8. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING (S-4 \$ S-5) FOR ADDITIONAL DETAILS.

9. NO HAND PATCHING ALLOWED. IO. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

	CITY OF RALEIGH					
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	PAVEN	MENT PA	ATCH DETAIL			
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J-J	RRH	3-30-00	J.P.S.	10-8-10		



7-2-82



CITY OF RALEIGH

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CITY OF RALEIGH

DEPARTMENT OF PUBLIC UTILITIES

THRUST BLOCKING DESIGN

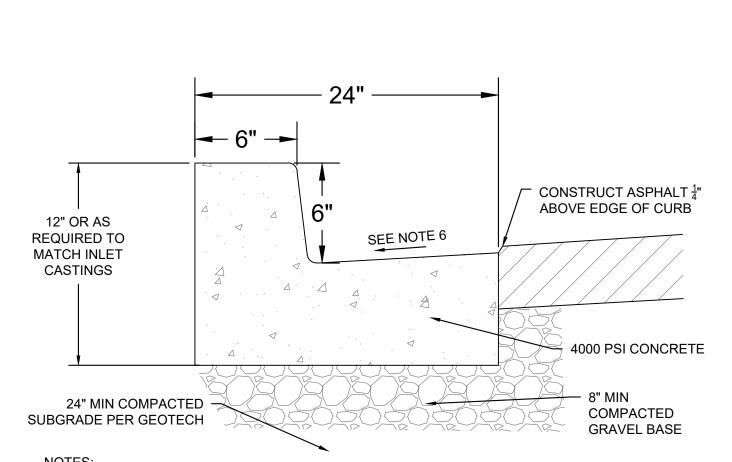
QUANTITY TABLE

DATE REVISIONS

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8



1. CURB AND GUTTER SHALL BE CONSTRUCTION IN 10-FOOT LENGTHS, OR EXTRUDED AND THEN SAWCUT AT 10-FOOT INTERVALS TO A DEPTH OF 1-3/4 INCHES.

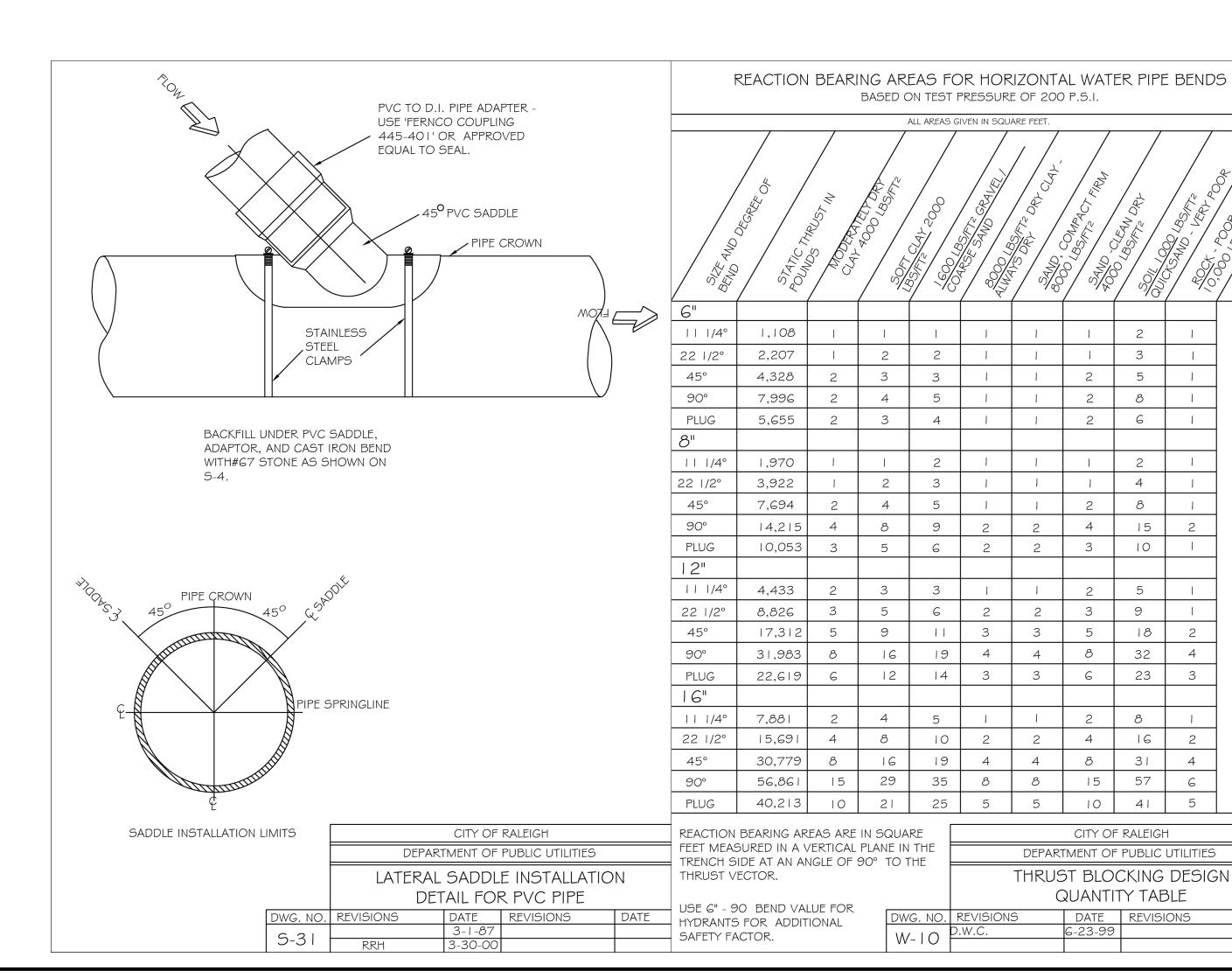
- 2. 1/2-INCH EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 50 FEET, AT THE ENDS OF RETURNS AND AT ALL POINTS WHERE THE NEW CURB AND GUTTER ABUTS OTHER CONCRETE STRUCTURES OR INLET CASTINGS.
- 3. PITCHED CURB & GUTTER TO BE USED WHERE WATER FLOWS AWAY FROM THE CURB FACE. REFER TO GRADING PLAN, C4.1. 10-FOOT LONG TRANSITIONS SHALL BE PROVIDED BETWEEN NORMAL GUTTER AND PITCHED GUTTER. 4. ALL CONCRETE SHALL BE 4,000 PSI (TYP.)

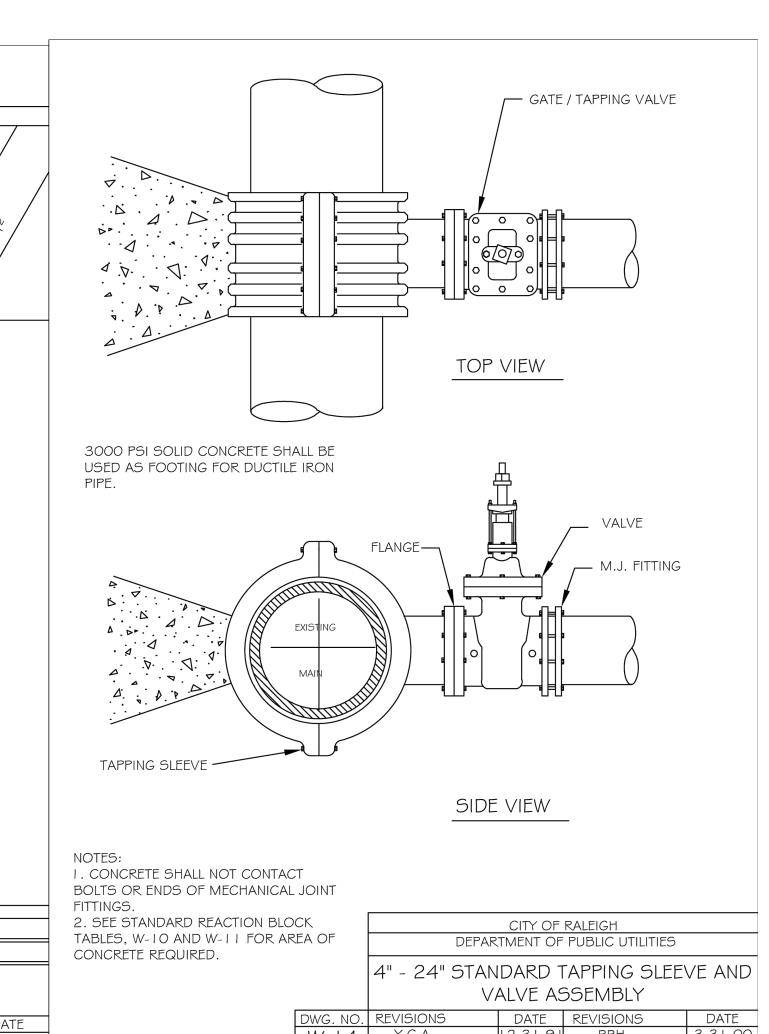
DETAILS.

C5.

5. CURB HEIGHT TO BE 6 INCHES UNLESS OTHERWISE NOTED ON GRADING PLAN, SHEET C3.1 6. CONSTRUCT NORMAL GUTTER SLOPE AT 8% SLOPE WHEN DRAINING TOWARDS CURB. CONSTRUCT PITCHED GUTTER AT 4% SLOPE WHEN DRAINING AWAY FROM CURB. WHERE GUTTER IS IN FRONT OF CURB RAMPS OR ACCESSIBLE ROUTES, CONSTRUCT GUTTER AT 1.5% MAX. SLOPE.

CURB AND GUTTER





9-7-99 J.P.S.



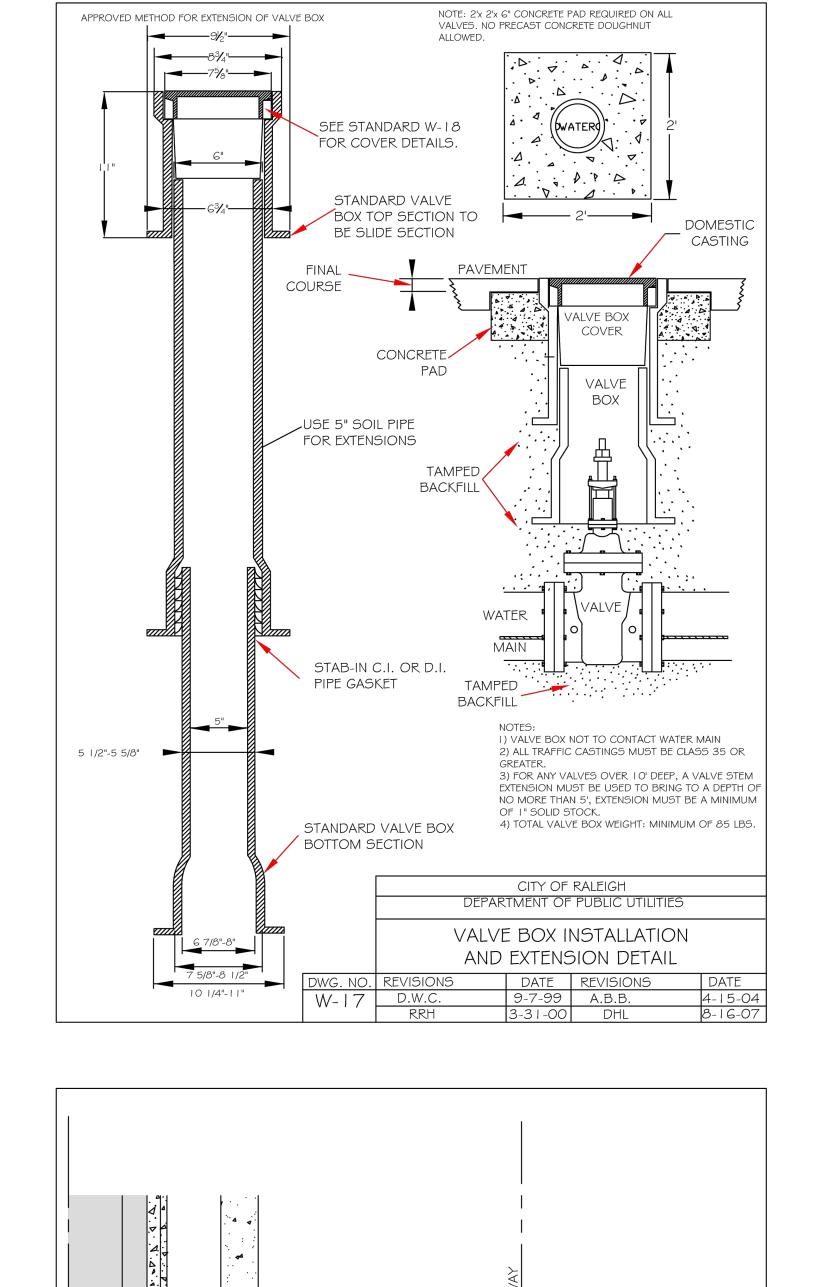
INT, ROLESVILLE I WMG DEVEL 908 S I ROLES\

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PROJ. NO.: 21040

CIVIL DETAILS





, IRRIGATION

I . IRRIGATION METER SHALL BE LOCATED ON THE SIDE OF DOMESTIC METER WITH

2. THE BACKFLOW SHALL BE INSTALLED NO MORE THAN I O' FROM THE METER IN A

3. THE RP RELIEF VALVE SHALL BE A MINIMUM OF 12" ABOVE ANY MATERIAL (MULCH

5. THE INSTALLATION MUST ALSO MEET ALL CODE REQUIREMENTS PER THE NC PLUMBING

4. A SERVICE VALVE IS REQUIRED AFTER THE METER BUT BEFORE THE BACKFLOW

3. BACKFLOW RISER/STANDPIPE SHALL BE OF COPPER OR BRASS.

ASSEMBLY FOR MAINTENANCE AND REPLACEMENT PURPOSES.

NEW CURB STOP IN

INCREASING ADDRESSES.

VISIBLE LOCATION.

INCLUDED) OR GRADE.

CURB STOP BOX

NEW OR EXISTING

/ CURB STOP

DOMESTIC BACKFLOW

AND SERVICE VALVE

WHEN REQUIRED

DOMESTIC

APPROVED RP

BACKFLOW

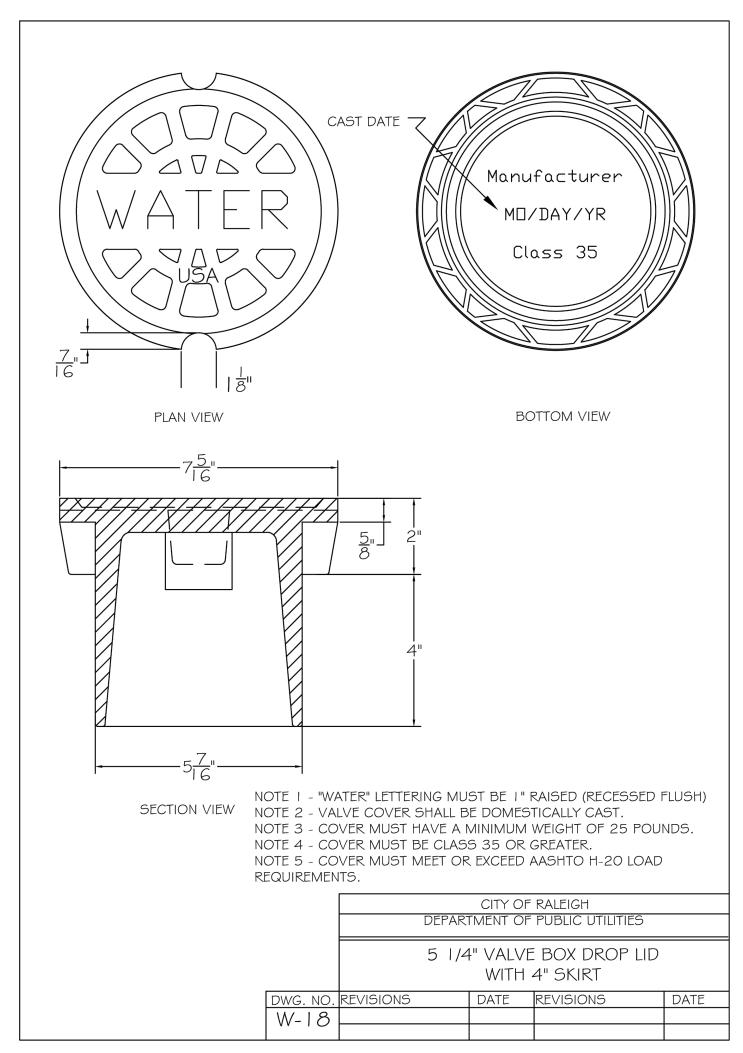
ASSEMBLY.

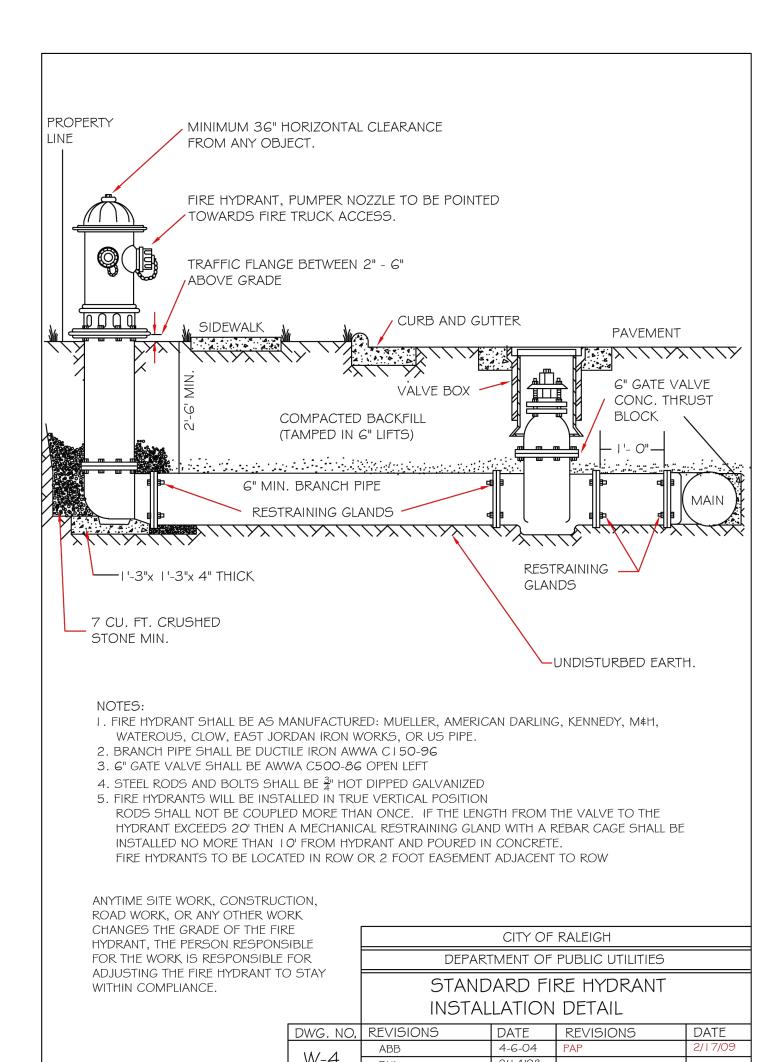
CITY OF RALEIGH

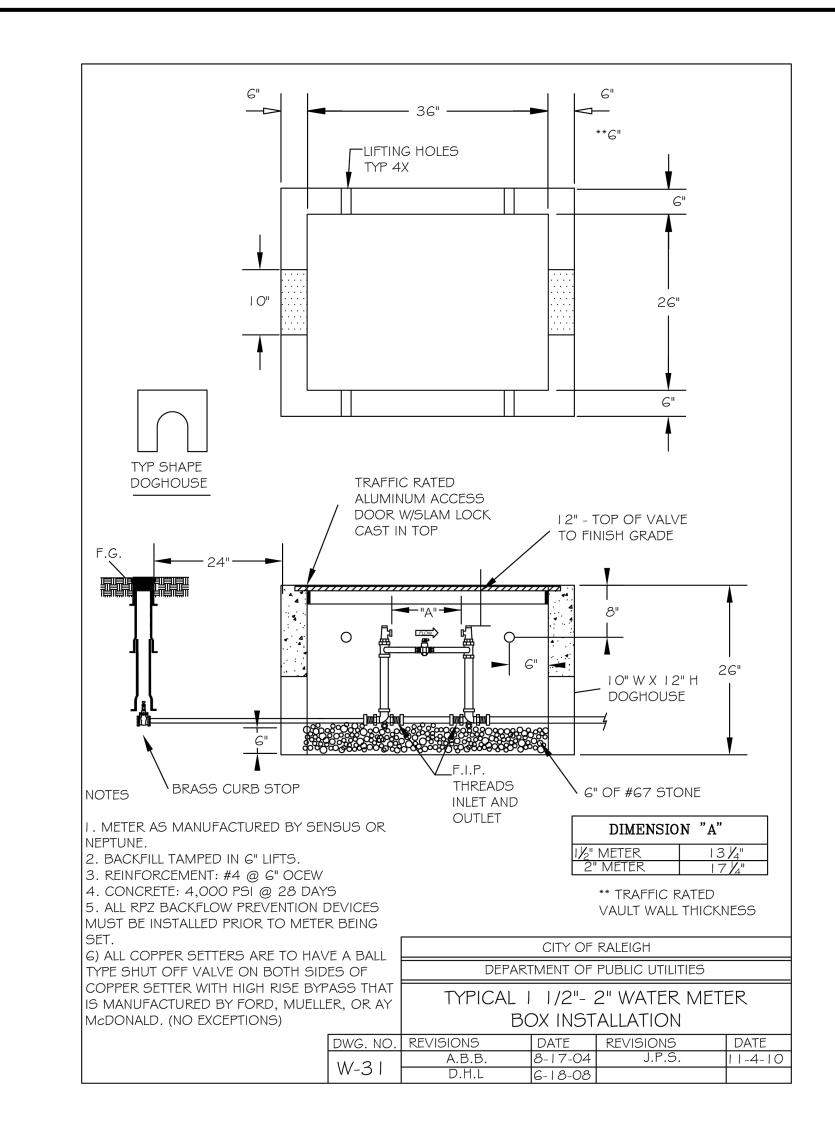
DEPARTMENT OF PUBLIC UTILITIES

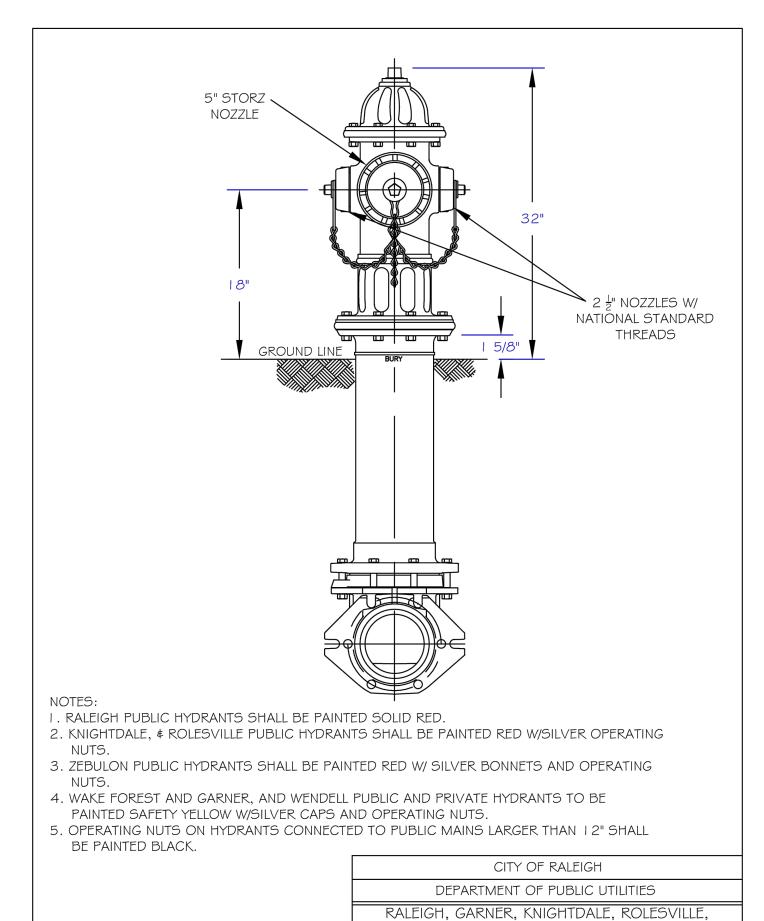
IRRIGATION TAP ON NEW AND EXISTING

SERVICES









WAKE FOREST, WENDELL & ZEBULON

STANDARD FIRE HYDRANT WITH 5"

STORZ PUMPER NOZZLE

3-1-87 3-31-00

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ROLESVILLE I WMG DEVEL 908 S I ROLESN

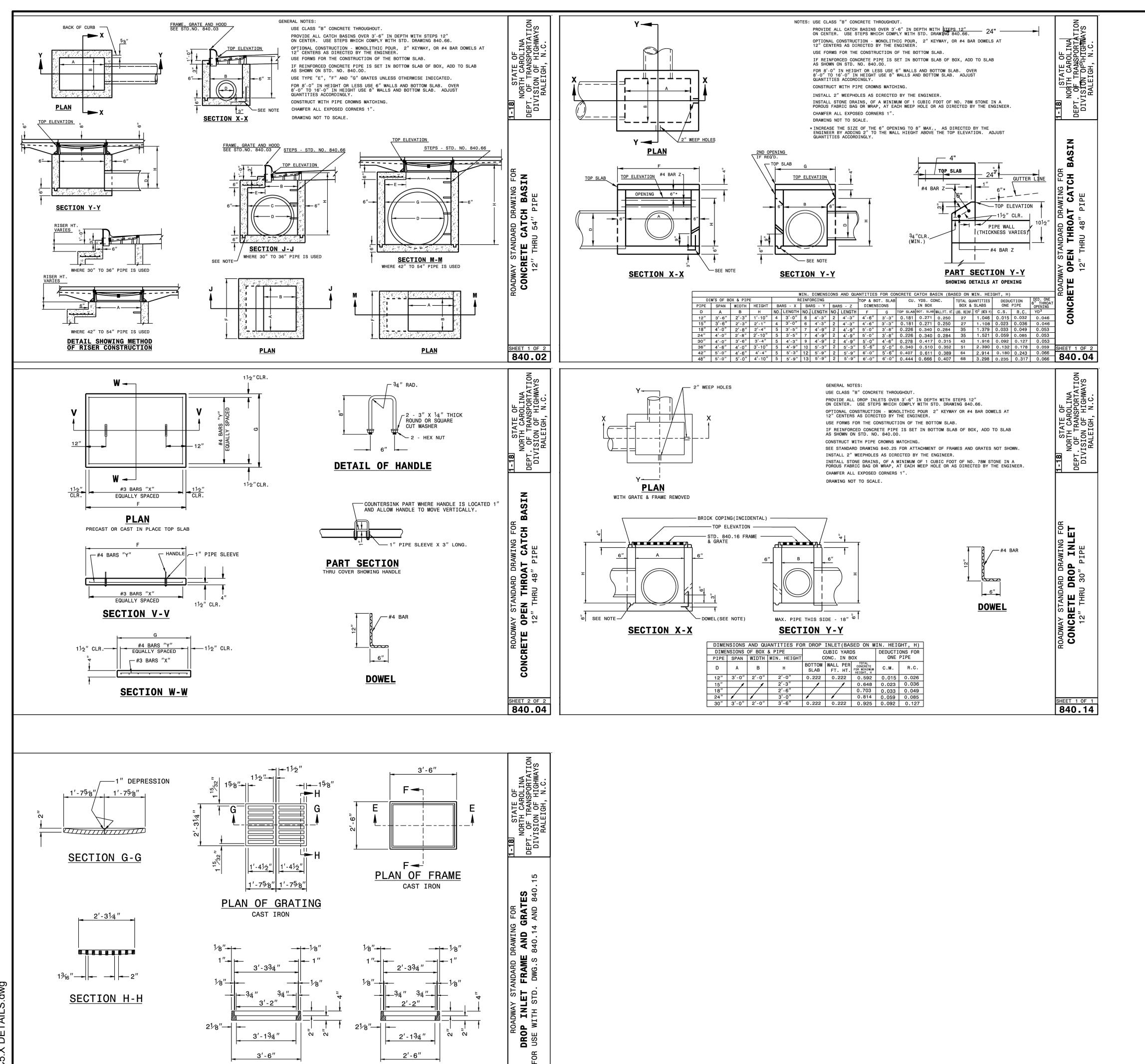
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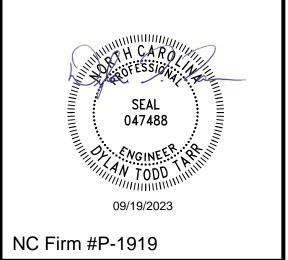
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CIVIL DETAILS







ROLESVILLE DENTAL OFFIC WMG DEVELOPMENT, LLC 908 S MAIN ST. ROLESVILLE, N.C.

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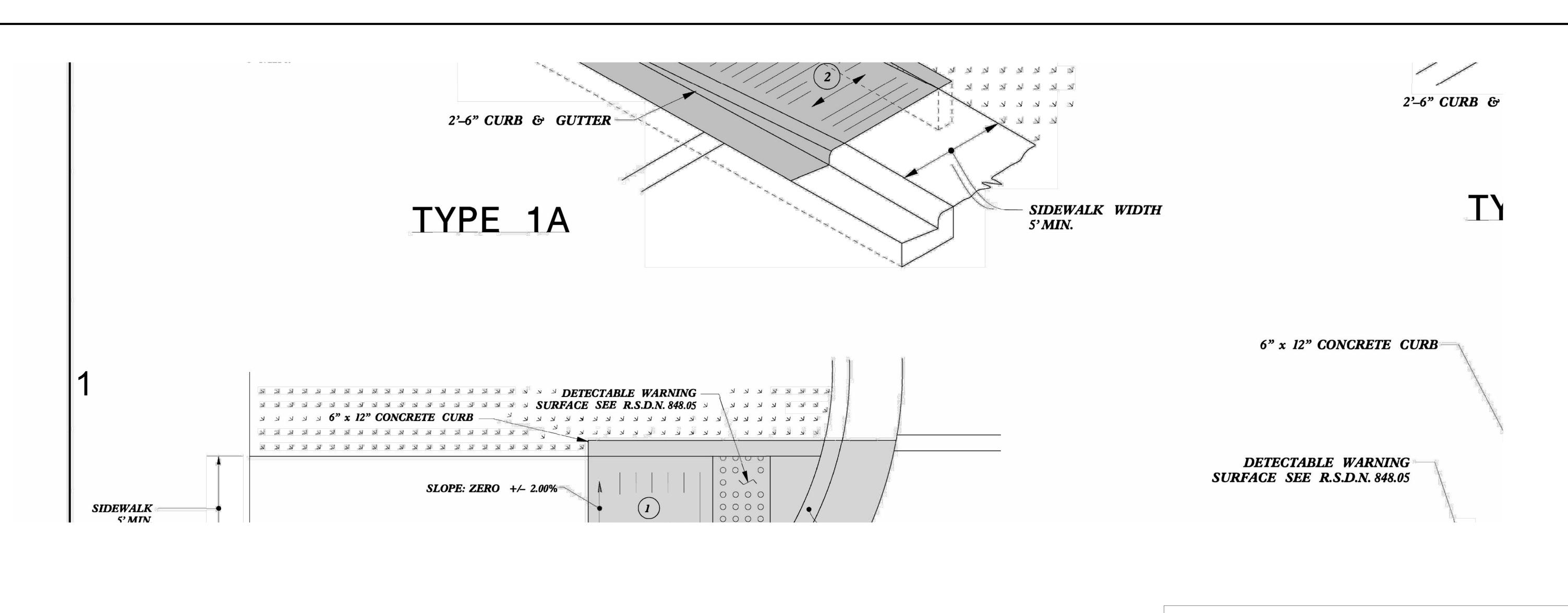
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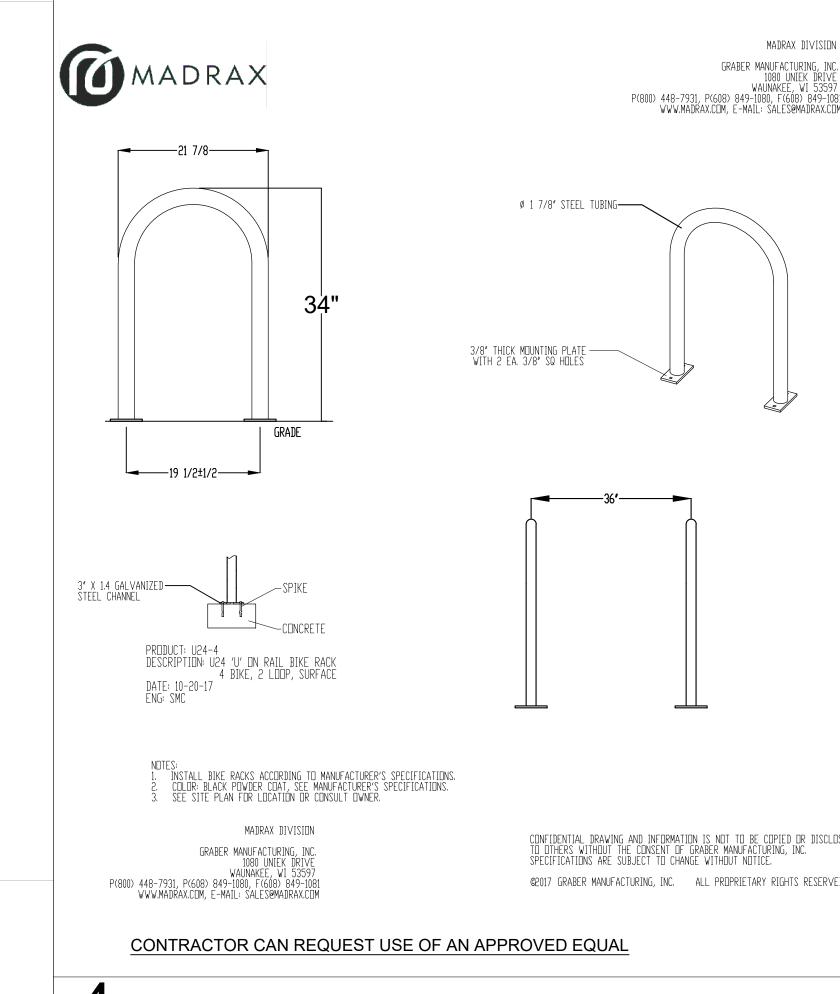
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SECTION F-F

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BIKE RACK



NC Firm #P-1919

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PROJ. NO.: 21040

CIVIL DETAILS

C5.6

FLOW LINE OF GUTTER CONCRETE CURB AND GUTTER (DETAIL 1/C5.3) CONCRETE WALK WIDTH VARIES PAVEMENT SEE PLANS CROSS SLOPE SHALL NOT EXCEED 1.5% SURFACE - BASE COURSE SECTION A-A CONCRETE WALK LENGTH VARIES FLOW LINE OF GUTTER (BEYOND) SEE PLANS SLOPE SHALL NOT EXCEED 4.5% SIDEWALK BEGIN STAMPED CONCRETE SIDEWALK BASE COURSE FLUSH CURB END -TAPER TO FLUSH SECTION B-B BACK OF BACK OF CURB ELEVATION AT DRIVE APRON CURB TO SIDEWALK VARIES FROM - 6" EXPOSED CURB FLUSH TO 6 INCHES OVER THE VARIED LENGTHS. SECTION WITH

SIDEWALK PLACEMENT DETAIL

Stamped Asphalt Cable Stamping Patterns

Pattern: Herringbone Item No: CSTA-HB Brick size: 9.75" x 4.75" (24.75 cm x 12.0 cm) Cable size: .325" (.825 cm)

NOTE: CONTRACTOR MAY SELECT A SIMILAR PRODUCT



Pattern Paving Products 1750 Hwy 160 West Unit 101-222 Fort Mill, SC 29708 888-434-8611 toll free 704-996-7248 direct 215-893-4827 fax www.patternpaving.com

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STAMPED

SHEET)

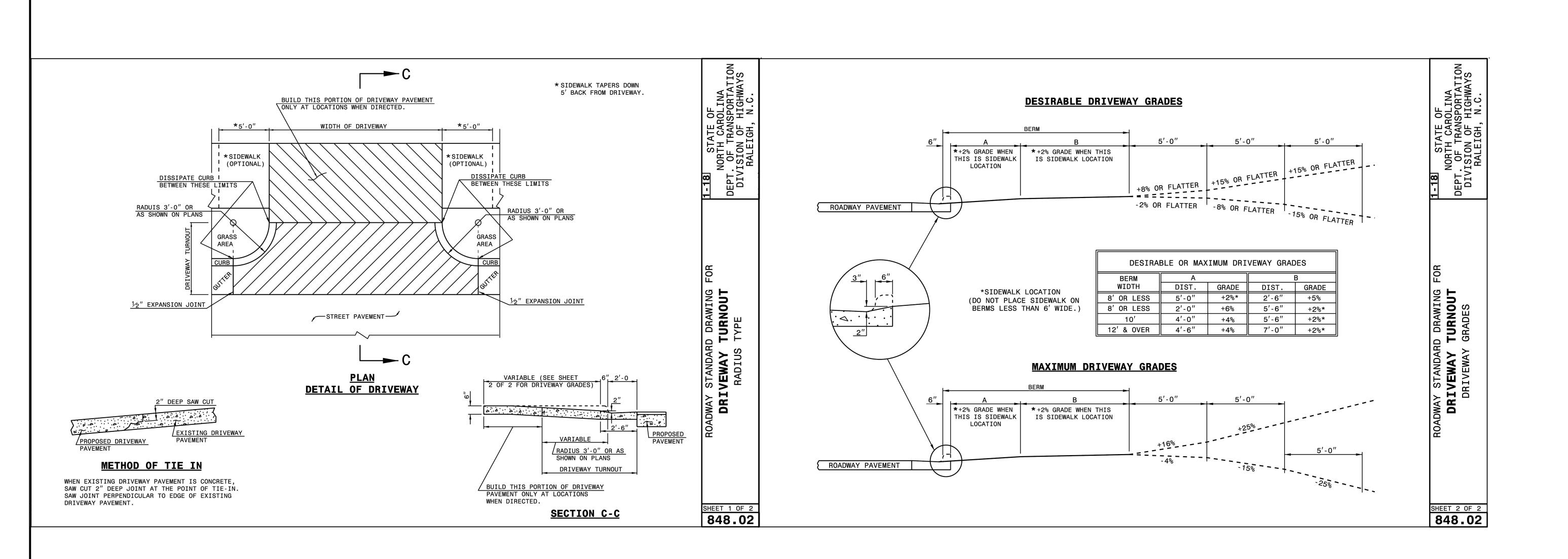
SIDEWALK

FLUSH WITH DRIVE APRON

CONCRETE PATTERN

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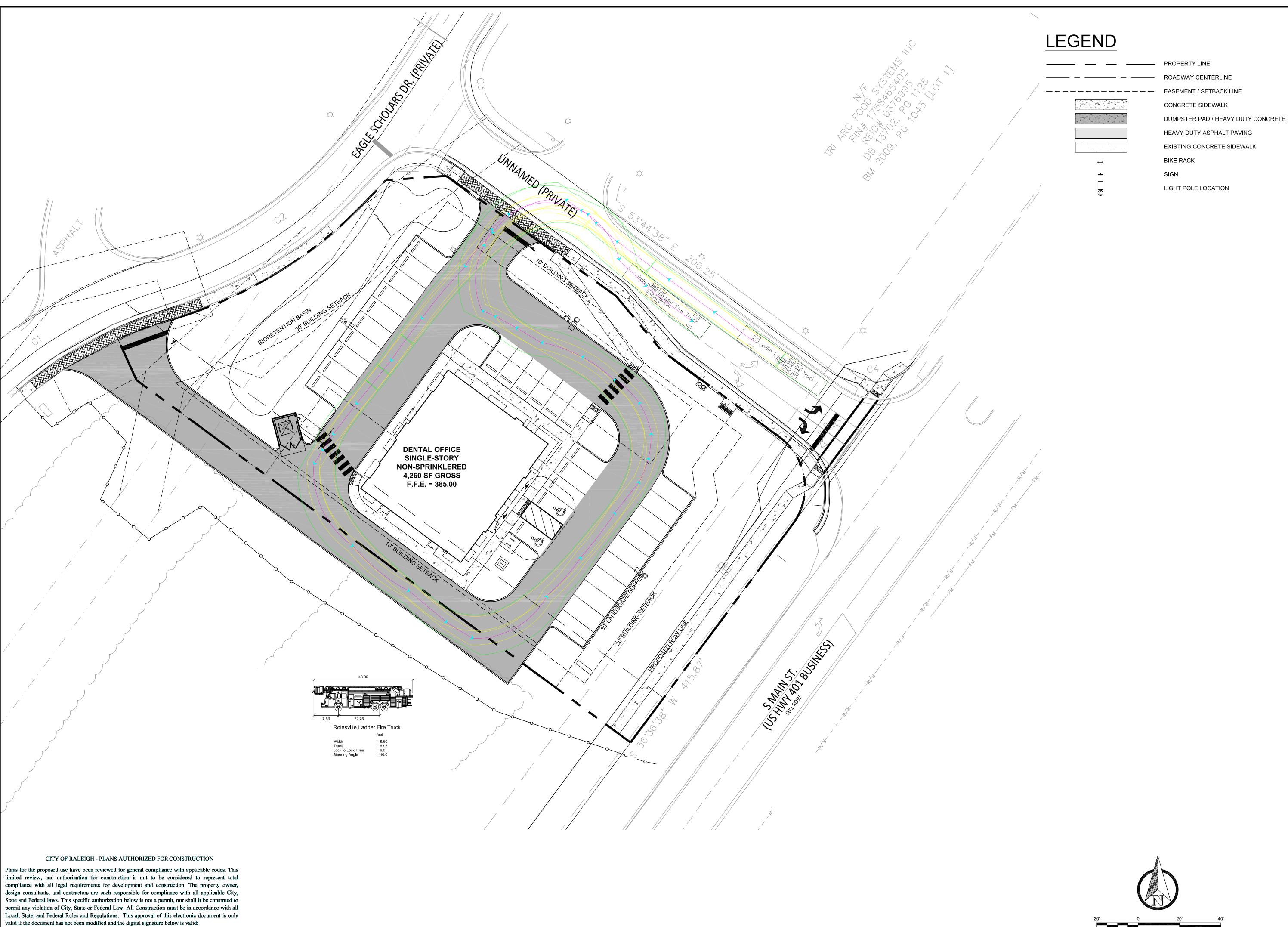


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CIVIL DETAILS



Y LINE

Y CENTERLINE

T / SETBACK LINE

E SIDEWALK

SEAL

047488

09/19/2023

NC Firm #P-1919

GROUP8650 E. STATE ROAD 32
ZIONSVILLE, IN 46077
PHONE: 765-278-6091



ROLESVILLE DENTAL OFFICE WMG DEVELOPMENT, LLC 908 S MAIN ST. ROLESVILLE, N.C.

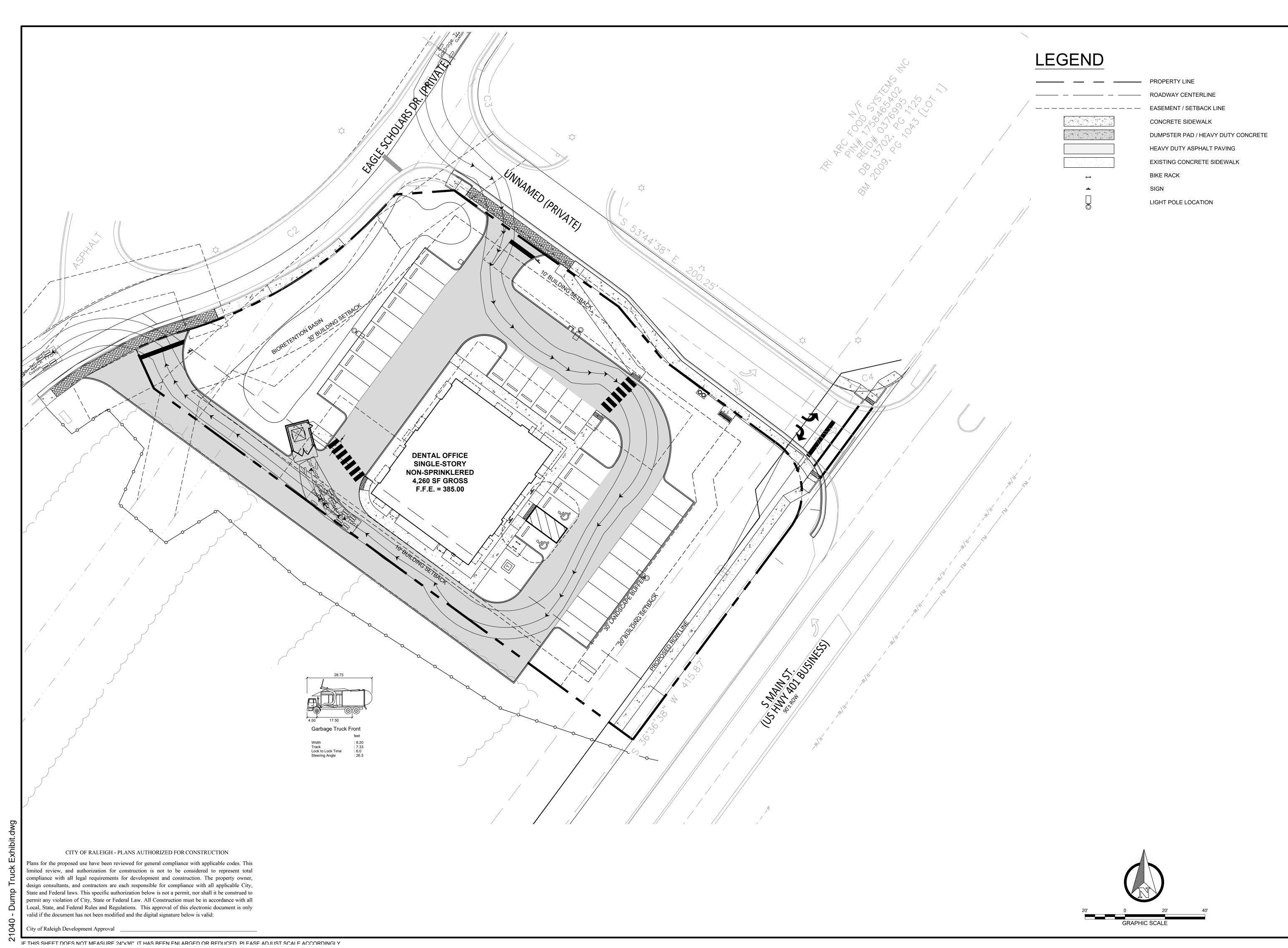
OF	RIGINAL ISSUE DATE:	01/05/22
RE	EVISIONS:	
7	REVISION 1	03/28/2022
7	REVISION 2	04/13/2022
7	REVISION 3	06/22/2022
7	REVISION 4	09/01/2022
7	REVISION 5	10/03/2022
7	REVISION 6	01/13/2023
7	REVISION 7	07/20/2023
<u> </u>	REVISION 8	09/18/2023

PROJ. NO.: 21040

FIRE TRUCK EXHIBIT

C6.1

GRAPHIC SCALE



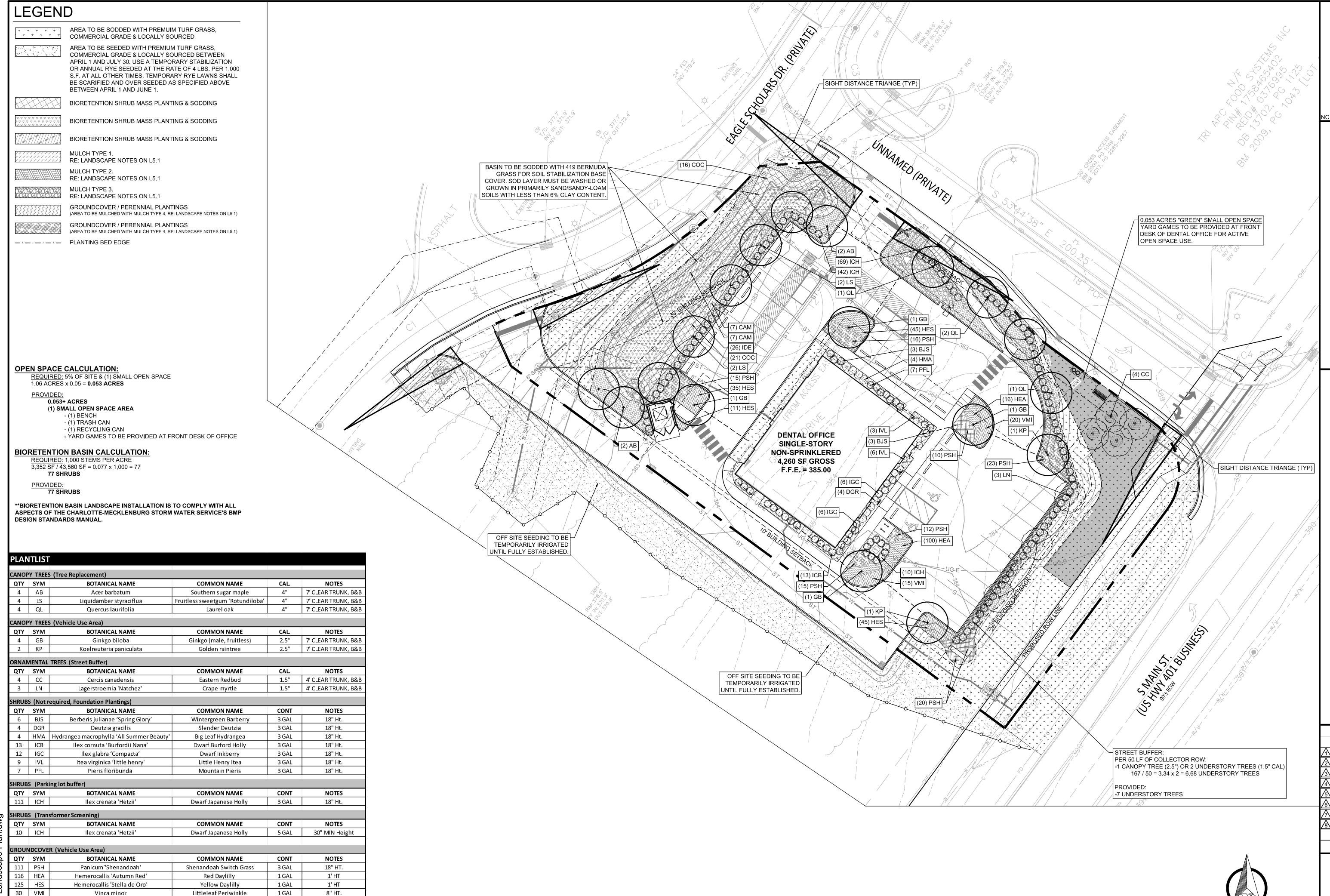


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REVISION 8	09/18/2023
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PROJ. NO.: 21040

DUMP TRUCK EXHIBIT



NC Firm No. C-668

DENTAL OF ELOPMENT, I AKE DR. & LC SVILLE, N.C. SVILLE IG DEVELONDEN LA ROLESA

ORIGINAL ISSUE DATE: 1/5/2022 **REVISIONS: REVISION 1** 03/28/2022 **REVISION 2** 04/13/2022 **REVISION 3** 06/21/2022 **REVISION 4** 09/01/2022 **REVISION 5** 10/06/2022 **REVISION 6** 1/13/2023 **REVISION 7** 7/19/2023 **REVISION 8** 9/18/2023

PROJ. NO.: 21040

LANDSCAPE PLAN

GRAPHIC SCALE

llex decidua Deciduous holly IF THIS SHEET DOES NOT MEASURE 24"x36", IT HAS BEEN ENLARGED OR REDUCED. PLEASE ADJUST SCALE ACCORDINGLY.

Buttonbush

Silky Dogwood

Cephalanthus occidentalis

Cornus amomum

36" MIN Height

36" MIN Height

36" MIN Height

5 GAL.

5 GAL.

ioretention Area Plants

14 | CAM

LANDSCAPE NOTES

- THE LANDSCAPE PLAN DESCRIBES THE LANDSCAPE PORTION OF THE PROJECT ONLY. SEE OTHER SHEETS FOR SITE IMPROVEMENT INFORMATION.
- 2. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL CONTACT THE UTILITIES NOTIFICATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION OR CONSTRUCTION TO REQUEST EXACT FIELD LOCATIONS OF ALL UTILITIES.
- 3. WHEN APPLICABLE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING TREES TO REMAIN. NO HEAVY EQUIPMENT SHOULD BE PERMITTED TO OPERATE OR BE STORED, NOR ANY MATERIALS TO BE HANDLED OR STORED, WITHIN THE DRIPLINES OF TREES OUTSIDE THE LIMIT OF GRADING
- 4. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND TO PROTECT UTILITIES THAT ARE TO REMAIN. THE CONTRACTOR SHALL REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- CONTRACTOR TO HAVE ALL UTILITIES FIELD LOCATED AND MARKED ON SITE PRIOR TO LANDSCAPE BEING PLANTED.

 UTILITY LOCATION DISCREPANCIES FROM PLANS TO BE IDENTIFIED AND LANDSCAPE ARCHITECT TO BE INFORMED PRIOR
 TO PLANTING. TREES MUST NOT BE PLANTED WITHIN 10' OF ANY UTILITIES.
- 6. CONTRACTOR SHALL HAVE EXISTING AND NEW UTILITY LOCATIONS MARKED, FOR REFERENCE, DURING APPROVAL OF FINAL 32. TREE PLANTING LAYOUT.
- MINIMIZE DISTURBANCE OUTSIDE SCOPE OF WORK . ANY DAMAGE OUTSIDE SCOPE OF WORK INCURRED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO LIKE NEW CONDITION.
- 8. CONTRACTOR SHALL MAINTAIN IRRIGATION TO EXISTING SOD AND OTHER PLANT MATERIAL TO REMAIN.
- THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL PLANTING PLANS. SHOULD DISCREPANCIES EXIST BETWEEN THE QUANTITIES OR S.F. AREAS PROVIDED IN THE LABEL AND THOSE DRAWN ON THE PLAN, THE PLAN SHALL GOVERN.
- 10. NO PLANT SHALL BE INSTALLED BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT, OR EQUAL.
- 11. ALL PLANTS SHALL HAVE THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING, UNLESS OTHERWISE SPECIFIED OR DETAILED.
- 12. ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL SHALL BE REMOVED COMPLETELY AT TIME OF
- 13. CUT AWAY ROPES OR WIRES FROM B&B PLANTS. PULL BACK BURLAP FROM TOP OF ROOT BALL. DO NOT ALLOW BURLAP TO BE EXPOSED AT SURFACE. TOTALLY REMOVE BURLAP IF IT IS SYNTHETIC.IF CONTAINER GROWN PLANTS SHOW SIGNS OF BEING ROOT BOUND, SCORE ROOTS VERTICALLY.
- 14. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN AT LEAST TWO VERTICAL LOCATIONS.
- 15. DO NOT PLANT TREES WITHIN 10 FEET OF CENTERLINE OF UTILITIES OR WITHIN UTILITY EASEMENTS. IF UTILITY INSTALLATION DIFFERS FROM WHAT PLANS SHOW THEN INFORM LANDSCAPE ARCHITECT AND CIVIL ENGINEER OF CONFLICTING CONDITIONS.
- 16. REFER TO THE DETAILS AND NOTES FOR REQUIRED PLANTING METHODS, SOIL PREPARATION, AND OTHER INFORMATION REGARDING PLANTING.
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING NECESSARY FOR INITIAL ESTABLISHMENT OF LANDSCAPE. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR MORE OFTEN, IF NECESSARY, DURING THE FIRST GROWING SEASON. CONTRACTOR SHALL ALSO BE REQUIRED TO MAINTAIN LANDSCAPE THROUGH SUBSTANTIAL COMPLETION. MAINTENANCE SHALL INCLUDE (BUT IS NOT LIMITED TO) WATERING, MOWING, PRUNING, AND WEEDING.
- 18. PLANT MATERIAL SHALL NOT BE PRUNED UNLESS OTHERWISE INDICATED IN PLANTING SCHEDULE.
- 19. AREAS TO RECEIVE LANDSCAPE SHALL BE TILLED TO A DEPTH OF 12-INCHES. THEN APPLY SPECIFIED SOIL AMENDMENT OVER SURFACE. TILL AREAS AGAIN TO A MINIMUM DEPTH OF 8- INCHES.
- 20. FINISH GRADES IN PLANTING AREAS SHALL BE SET TO INCLUDE THE APPLICATION OF TOPSOIL IN MEETING SPOT ELEVATIONS ON CONTOURS SHOWN ON PLANS. SLOPES SHALL BE SMOOTH AND WORKED. SOIL SHALL NOT BE LEFT IN CLUMP FORM. HOLD FINISHED GRADE OF MULCH A MINIMUM OF 3" BELOW EDGE OF WALK, EDGING, OR CURB.
- 21. PROVIDE AT LEAST (2) 4" DIAMETER SCHEDULE 40 PVC SLEEVES UNDER ALL WALKS AND DRIVES FOR IRRIGATION PIPING AND WIRING, PRIOR TO INSTALLATION OF WALKS AND DRIVES. SITE CONTRACTOR SHALL COORDINATE INSTALLATION OF SLEEVES WITH LANDSCAPE CONTRACTOR. REFER TO APPROVED IRRIGATION PLANS FOR LOCATIONS WHERE SLEEVES ARE REQUIRED.
- 22. STEEL EDGER WITH A ROLLED TOP SHALL SEPARATE ALL SODDED AREAS, BED AREAS, MINERAL MULCH AREAS, NATIVE SEED AREAS, AND AREAS OF POLYMER BOUND AGGREGATE SURFACES. PRODUCT CUT SHEET TO BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 23. TRANSPLANTED TREES SHALL HAVE THE SAME ASPECT IN FINAL LOCATION (I.E. EXISTING NORTH ASPECT SHALL FACE NORTH IN FINAL LOCATION).
- 24. ALL AREAS DISTURBED BY UTILITY TRENCHING, SITE AND BUILDING CONSTRUCTION SHALL BE STABILIZED WITH SODDING AND SEEDING AS SHOWN BY THE PLAN.
- 25. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO CONFIRM MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY. THE QUANTITIES SHOWN ON THE PLAN SHALL TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT
- 26. THE LANDSCAPE INSTALLATION SHALL BE COORDINATED WITH THE IRRIGATION INSTALLATION WHEN APPLICABLE.
- 27. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES AND TAKE SPECIAL CARE TO INSURE THAT BED PREPARATION DOES NOT INHIBIT DRAINAGE.
- 28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING BEHIND THE CURB SO GRADE IS LEVEL WITH TOP OF CURB.
- 29. ALL LAWN AREAS SHALL BE CULTIVATED TO A DEPTH OF 4" PRIOR TO SODDING AND SEEDING. PREPARED SOD AND SEED BEDS SHALL BE FREE FROM STONES OVER 2" DIAMETER AND OTHER DELETERIOUS MATERIAL
- 30. THE LANDSCAPE CONTRACTOR SHALL RAKE SMOOTH ALL SEED OR SOD AREAS PRIOR TO INSTALLATION.
- 31. SODDED AREAS SHALL HAVE NO BARE AREAS. SEEDED AREAS SHALL BE CONSIDERED ACCEPTABLE WHEN FULL COVERAGE OF THE PERMANENT TURFGRASS SPECIES IS ESTABLISHED.
- 32. THE QUANTITIES INDICATED ON THE PLANT LIST AND PLAN ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY WHICH PERTAINS TO THOSE QUANTITIES AND TO ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS. QUESTIONS SHOULD BE DIRECTED TO THE LANDSCAPE ARCHITECT.
- 33. ALL PLANT MATERIALS SHALL BE NURSERY GROWN, UNLESS OTHERWISE NOTED AND SHALL COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK: ANSI Z-60.1; LATEST EDITION, FOR SIZE AND QUALITY.
- 34. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO CONFIRM MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY, THE QUANTITIES SHOWN ON THE PLAN SHALL TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT LIST.
- 35. NO SUBSTITUTIONS AS TO TYPE, SIZE, OR SPACING OF PLANT MATERIALS SPECIFIED ON THIS PLAN MAY BE MADE WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. CONTACT LANDSCAPE ARCHITECT.
- 36. SOIL USED FOR PLANTING SHALL CONSIST OF 5 PARTS TOPSOIL, 1 PART SAND AND 2 PARTS ORGANIC MATTER, MIXED WITH I POUND OF FERTILIZER PER CUBIC YARD.
- SAND SHALL BE CLEAN MASONRY SAND.
 ORGANIC MATTER SHALL BE PEAT MOSS, OR WELL COMPOSTED PINE BARK, OR APPROVED EQUAL AND SHALL BE
- FINELY GROUND AND FREE OF WEEDS.

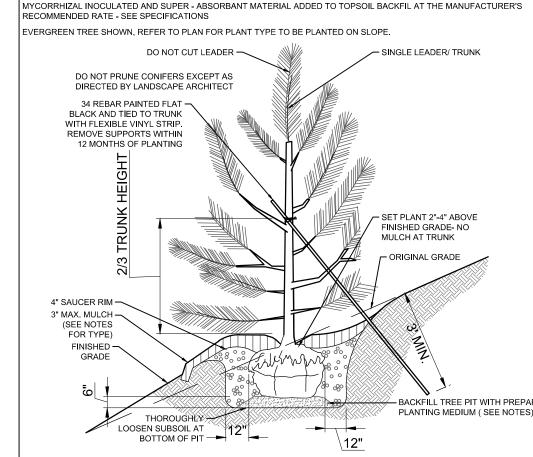
 ALL FERTILIZER SHALL BE 10-10-10 WITH MINOR ELEMENTS. FERTILIZER SHALL HAVE 40-50% OF ITS TOTAL NITROGEN IN A WATER INSOLUBLE FORM.
- . PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AND SOD AREAS PRIOR TO INSTALLATION. TREFLAN OR

- 38. ALL PLANT BEDS SHALL HAVE A MINIMUM OF 3" DEEP MULCH. ALL MULCH TYPE SAMPLES TO BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL, PRIOR TO INSTALLATION.
 - MULCH TYPE 1: 1.5" LOCAL RIVER ROCK. COLOR: MIX OF BEIGE, GREY, BROWN. SOIL SEPARATOR FABRIC REQUIRED.
 - MULCH TYPE 2: 3" INORGANIC ANGULAR FACE ROCK MULCH. COLOR: MIX OF BEIGE, GREY, BROWN. SOIL SEPARATOR FABRIC REQUIRED.
 - MULCH TYPE 3: NCDOT CLASS B RIP RAP. SOIL SEPARATOR FABRIC REQUIRED.
 - MULCH TYPE 4: FINE-GROUND SHREDDED HARDWOOD BARK MULCH DOUBLE-GROUND, PARTIALLY COMPOSTED, AND FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. PH RANGE 6.0-7.0
- 30. TREES PLANTED IN LAWN AREA TO HAVE A 3'-0" RADIUS MULCH BED AROUND THE BASE. MULCH TO BE MULCH TYPE 1.
- 31. THE LANDSCAPE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANT MATERIAL THAT HAS BEEN DAMAGED BY VANDALISM, FIRE, RELOCATION, WILDLIFE, THEFT, SEVERE WEATHER OR OTHER ACTIVITIES BEYOND THE LANDSCAPE CONTRACTOR'S CONTROL.
- 32. PRIOR TO FINAL PAYMENT, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS ON PROPER CARE OF ALL SPECIFIED PLANT MATERIALS.
- 33. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- 34. ALL REPLACEMENTS SHALL BE OF THE SAME TYPE, SIZE, AND QUALITY AS SPECIFIED ON THE PLANT LIST, UNLESS APPROVED OTHERWISE IN WRITING BY THE LANDSCAPE ARCHITECT AND CITY.
- 35. ANY MATERIAL THAT IS DEEMED TO BE 25% DEAD OR MORE SHALL BE CONSIDERED DEAD, AND MUST BE REPLACED AT NO CHARGE. A TREE IS CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK, OR MORE THAN 25% OF THE CROWN IS DEAD.
- 36. REPLACEMENTS SHALL BE MADE DURING THE NEXT PLANTING SEASON UNLESS THE LANDSCAPE CONTRACTOR AGREES TO AN EARLIER DATE. FINAL CERTIFICATE OF OCCUPANCY MAY BE WITHHELD UNTIL PLANTING IS COMPLETE.
- 37. THE LANDSCAPE CONTRACTOR MUST SUBMIT MATERIAL SAMPLES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. SUBMITTALS ARE TO CONFIRM COMPLIANCE AND MATERIAL QUALITY. THESE SAMPLES INCLUDE, BUT ARE NOT LIMITED TO: MULCHES, EDGING, & PLANTS. CONTRACTOR TO CONTACT LANDSCAPE ARCHITECT.

CONSTRUCTION CLOSE-OUT

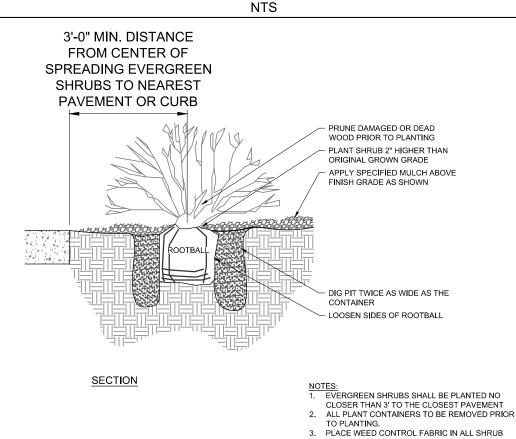
- MAINTAIN ONE SET OF MARKED-UP AS-BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE LANDSCAPE ARCHITECT UPON COMPLETION.
- 2. ANY PLAN SUBSTITUTIONS THAT ARE NOT PREVIOUSLY APPROVED AND FOUND TO BE UNACCEPTABLE BY LANDSCAPE ARCHITECT ARE TO BE RECONSTRUCTED AT CONTRACTOR'S EXPENSE.
- 3. ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE COMPLETION OF THIS WORK.
- 4. REPAIR OR REPLACE DAMAGE TO EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC.) DESIGNATED TO REMAIN, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSES, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK, SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY THE LANDSCAPE ARCHITECT AT THE CONTRACTORS EXPENSE. WORK DONE CONTRARY TO THE INSTRUCTIONS OF THE LANDSCAPE ARCHITECT, WORK DONE BEYOND THE LINES SHOWN ON THE PLANS, OR ANY EXTRA WORK DONE WITHOUT AUTHORITY WILL NOT BE PAID FOR.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENT SHALL BE REESTABLISHED BY A LICENSED SURVEYOR IN THE STATE OF THE PROJECT.
- 7. CONTRACTOR TO PROVIDE LANDSCAPE ARCHITECT PHOTOGRAPHS OF AS-BUILT SITE UPON CONSTRUCTION AND LANDSCAPE INSTALLATION FOR REVIEW AND APPROVAL. CONTACT LANDSCAPE ARCHITECT.
- 4. CONTRACTOR TO VERIFY LANDSCAPE FINAL ACCEPTANCE PROCESS AND COORDINATE WITH THE APPROPRIATE PARTIES.
 THESE TASKS CAN INCLUDE. BUT ARE NOT LIMITED TO:
 - 4.1. AS-BUILTS.
 - 4.2. INSPECTIONS.4.3. MATERIALS APPROVAL BY LANDSCAPE ARCHITECT.
 - 4.4. PLANTING LOCATIONS IN REFERENCE TO AS-BUILT UTILITY LOCATIONS.
 - 4.4.1. NO TREE PLANTED WITHIN 10' OF ANY UTILITY LINES UNLESS SAID UTILITY LINE IS NOTED TO BE WRAPPED IN ROOT BARRIER.

DO NOT CUT LEADER. PRUNE DAMAGED DEAD WOOD IMMEDIATELY AFTER PLANTIN USE NYLON TREE STRAPS AT END OF WIRE → NORTH 2 GAUGE GALVANIZED WIRE, DOUBLE - POST WITH GROMMETED NYLON STRAP TREE STAKING DRIVE (30" MIN.) INTO SUBGRADE. ADJUS STAKE SO THAT TOP IS LEVEL WITH OR JU BELOW FIRST BRANCHES. ALLOW FOR 1" MIN. OF TRUNK SWAY BETWEEN STAKES PLANTING AREA ASSEMBL' FORM SOIL INTO 3" WATER RING AROUND REE BASE AT TIME OF PLANTING, REMOVE PRIOR TO MULCHING FINISH GRADE OVER 3" CAL.TREE - SLOPE SIDES OF HOLE TO BE 3 TO 5 TIMES WIDE AS THE DIAMETER OF THE ROOTBALL - PLANT TOP MOST ROOT IN ROOTBALL A OR SLIGHTLY HIGHER THAN LEVEL AT WHICH IT GREW SPECIFIED BACKFILL MIXTURE WITH SPECIFIED FERTILIZER APPLICATION REMOVE UPPER 3/3 OF WIRE, ROPE AND - SET ROOTBALL DIRECTLY ON UNDISTURBE SUBSOIL. BROKEN OR CRUMBLING PLANTING AREA SHALL BE LOOSENED AND AERATED ROOTBALLS WILL BE REJECTED AT LEAST 3 TO 5 TIMES THE DIAMETER OF ROOTBALL PLANT MATERIAL SHALL CONFORM TO "THE AMERICAN STANDARD FOR NURSERY STOCK"



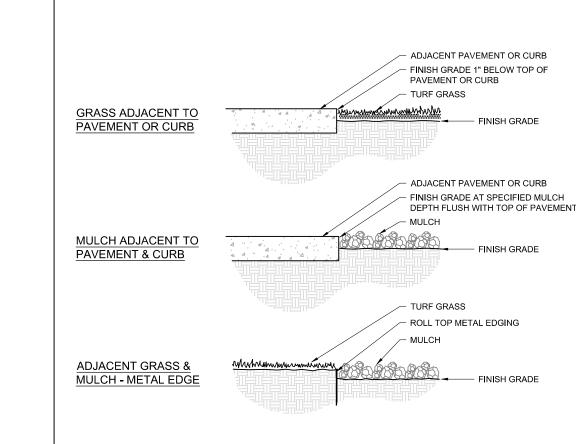
ANSI Z60.1; LATEST EDITION) FOR SIZE FORM AND QUALITY





SHRUB PLANTING DETAIL

BACKFILL AND WATER IN THOROUGHLY
 BROKEN ROOTBALLS WILL BE REJECTED



EDGING DETAILS

ROLESVILLE DENTAL OFFICE
WMG DEVELOPMENT, LLC
NORTH OF HAMPTON LAKE DR. & LOUISBURG RD.

2056

NC Firm No. C-668

ORIGINAL ISSUE DATE: 1/5/2022 **REVISIONS: REVISION 1** 03/28/2022 04/13/2022 **REVISION 2 REVISION 3** 06/21/2022 **REVISION 4** 09/01/2022 **REVISION 5** 10/06/2022 1/13/2023 REVISION 6 **REVISION 7** 7/19/2023 **REVISION 8** 9/18/2023

PROJ. NO.: 21040

LANDSCAPE NOTES & DETAILS

L5.1

IF THIS SHEET DOES NOT MEASURE 24"x36", IT HAS BEEN ENLARGED OR REDUCED. PLEASE ADJUST SCALE ACCORDINGLY.

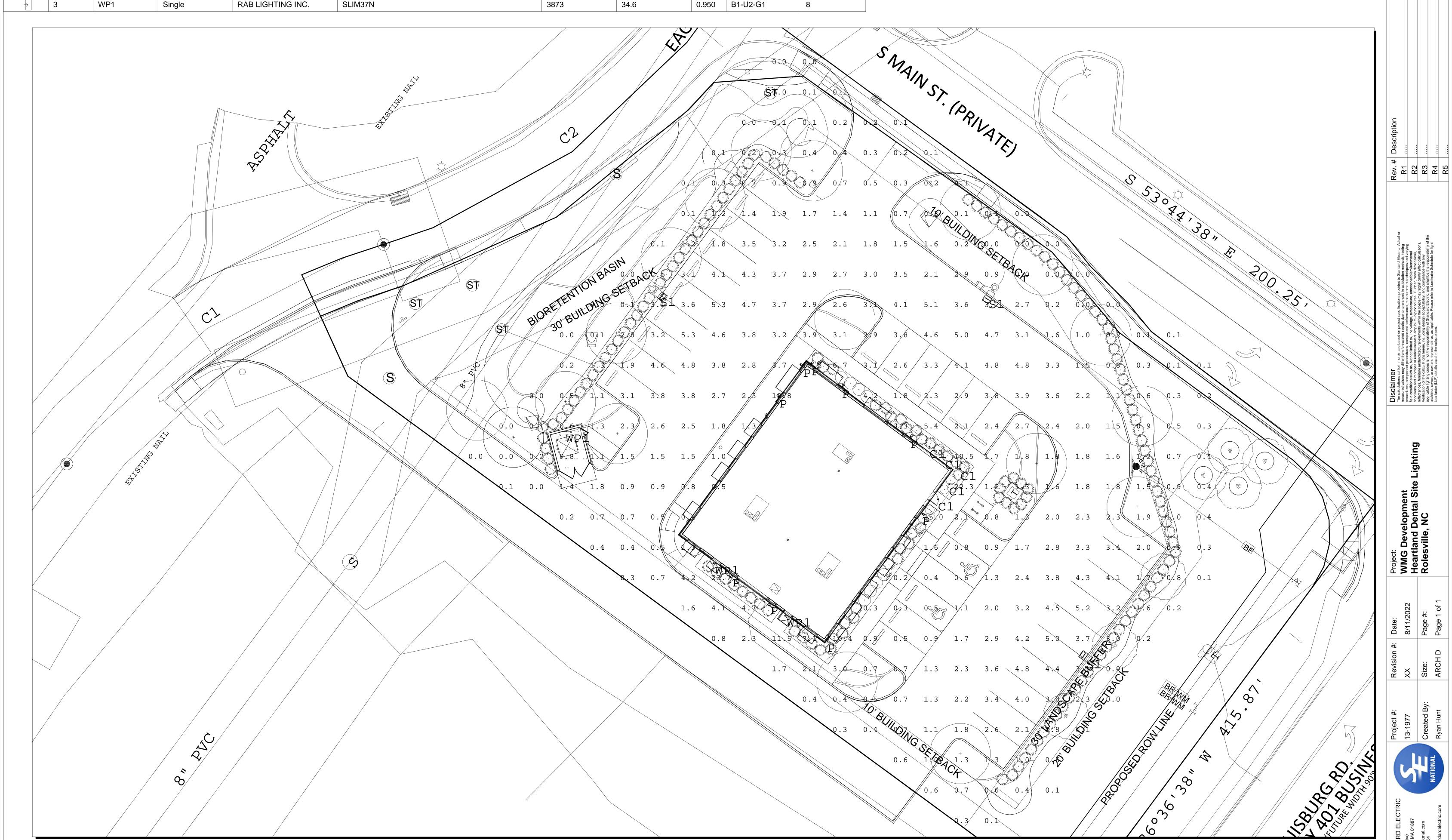


AN APPROVED EQUAL SHALL BE USED.

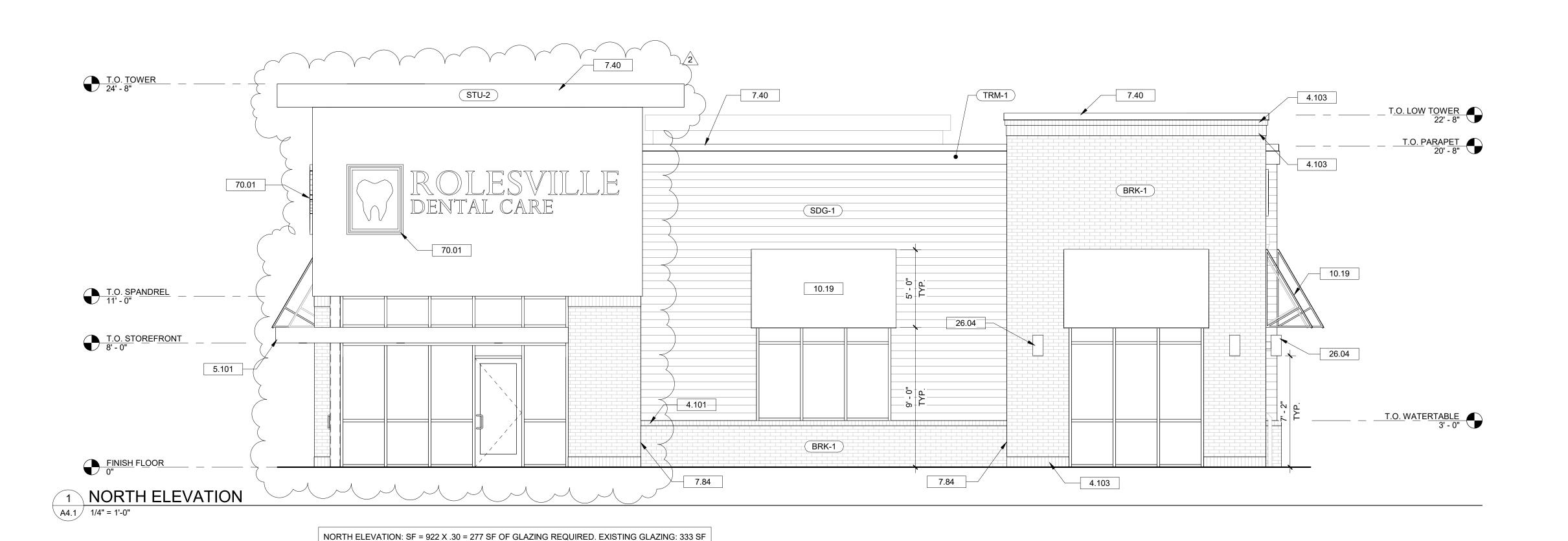
Standard Electric Luminaire Schedule										
Symbol	Qty	Label	Arrangement	[MANUFAC]	Description	Total Lumens	Total Wattage	LLF	BUG Rating	Mounting
										Height
	5	C1	Single	LiteLine	SLIMPRO6-40K-BK	950	11.2	0.980	B1-U2-G0	10
	9	Р	Single	PROGRESS	P5644-31-30K P860047	3731	60	0.980	B1-U5-G1	7
	3	S1	Single	Lithonia Lighting	DSX1 LED P7 40K BLC MVOLT	16997	183	0.980	B2-U0-G3	25
\rightarrow	3	WP1	Single	RAB LIGHTING INC.	SLIM37N	3873	34.6	0.950	B1-U2-G1	8

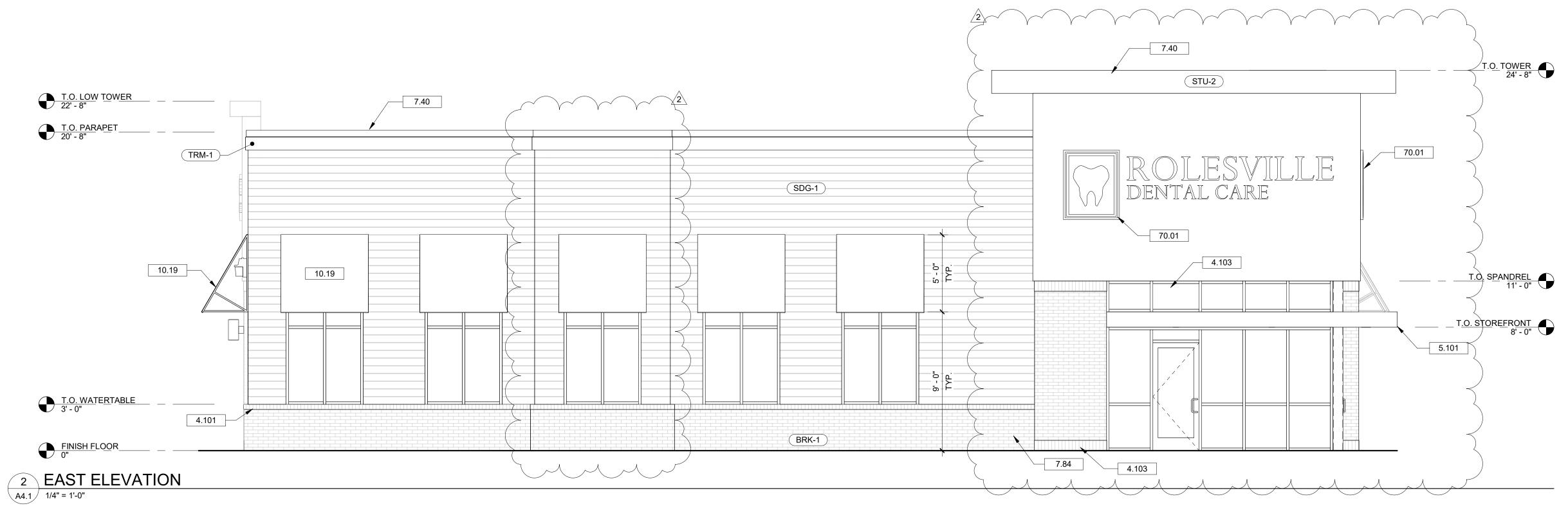
Calculation Summary								ate			
Label	СаІсТуре	Max	Min	Avg	Avg/Min	Max/Min	Units	[م			
Entire SIte	Illuminance	23.7	0.0	2.07	N.A.	N.A.	Fc	Re :	i	i	
Trash Enclosure	Illuminance	24.9	4.4	12.18	2.77	5.66	Fc				

24"x 36"



EXTERIOR FINISH SCHEDULE ALL EXTERIOR FINISHES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING. TAG MANUFACTURER DESCRIPTION COMMENTS GLEN-GERY BRK-1 BIRCHWOOD WILLIAMSBURG BRICK VENEER, MODULAR, RUNNING BOND OR EQUAL SDG-1 SAVANNAH SMOOTH SIDING PRIMED 6 1/4" SIDING - COLOR TO MATCH SW 7005 "PURE WHITE" OR EQUAL NICHIHA STU-1 STOPOWERWALL CI 2" RIGID INSULATION COLOR: #82 20001 "ITS WHITE', FINISH: "FINE" OR EQUAL 1" RIGID INSULATION COLOR: SPECIAL COLOR TO MATCH DARK BRONZE STOREFRONT, FINISH: "FINE" STU-2 STOPOWERWALL CI OR EQUAL TRM-1 NICHIHA NICHITRIM PRIMED 11 1/4" TRIM BOARD - COLOR TO MATCH SW 7005 "PURE WHITE" OR EQUAL





EAST ELEVATION: SF = 1,100 X .30 = 330 SF OF GLAZING REQUIRED. EXISTING GLAZING: 369 SF

GENERAL EXTERIOR NOTES

- A. PROVIDE CONCEALED BLOCKING BEHIND LOCATIONS OF ALL ATTACHED BUILDING SIGNAGE.
- B. COORDINATE EXTERIOR ELEVATIONS WITH ELECTRICAL AND MECHANICAL DRAWINGS.
- C. SIGNAGE SHOWN FOR REFERENCE ONLY. ALL BUILDING SIGNAGE WILL BE SUBMITTED FOR APPROVAL BY TENANT UNDER A SEPERATE PERMIT.

DRAWING NOTES

- 4.101 BRICK ROWLOCK.
- 4.103 BRICK SOLDIER COURSE.
- 5.101 PREFINISHED ALUMINUM CANOPY SYSTEM WITH INTEGRATED GUTTER. BASIS OF DESIGN: AWNEX COLORADO CANOPY SYSTEM, FLAT SOFFIT, 12" SMOOTH FASCIA, RECESSED DOWN-LIGHTING PRE-INSTALLED. COLOR TO MATCH STOREFRONT.
- 7.40 PREFINISHED METAL COPING WITH CONTINUOUS CLEAT. COLOR TO MATCH STOREFRONT FRAMING.
- 7.84 CONTROL JOINT.
- 10.19 ALUMINUM FRAMED AWNING WITH SUNBRELLA OR EQUAL CANVAS. COLOR TO BE BLACK.
- 26.04 LIGHT FIXTURE. REFER TO ELECTRICAL LIGHT FIXTURE SCHEDULE.
- 70.01 LOCATION OF FUTURE SIGNAGE BY TENANT. COORDINATE REQUIRED BLOCKING WITH SIGN VENDOR.

Seal







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Greenville, SC 29601
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Project



DENTAL OFFICE ROLESVILLE, NC

Project Number 21370
Drawn By JDS
Checked By KMW
Date 05 MAY 2022

Revisions

2 2022.10.05

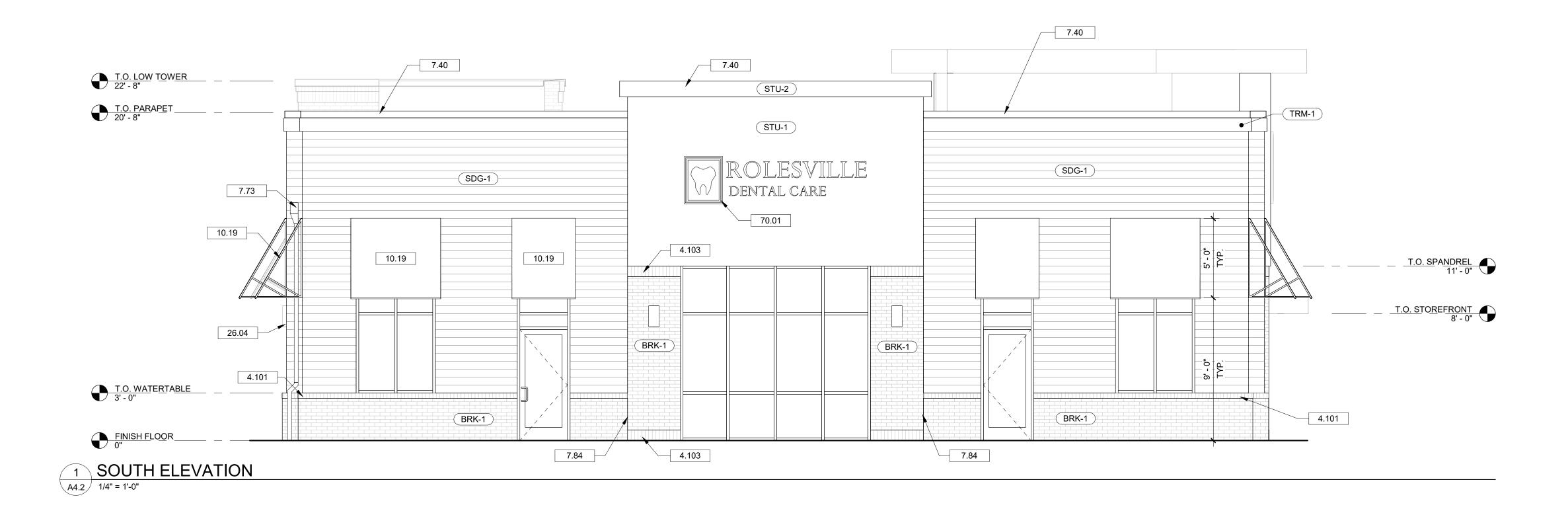
PLANNING COMMENTS

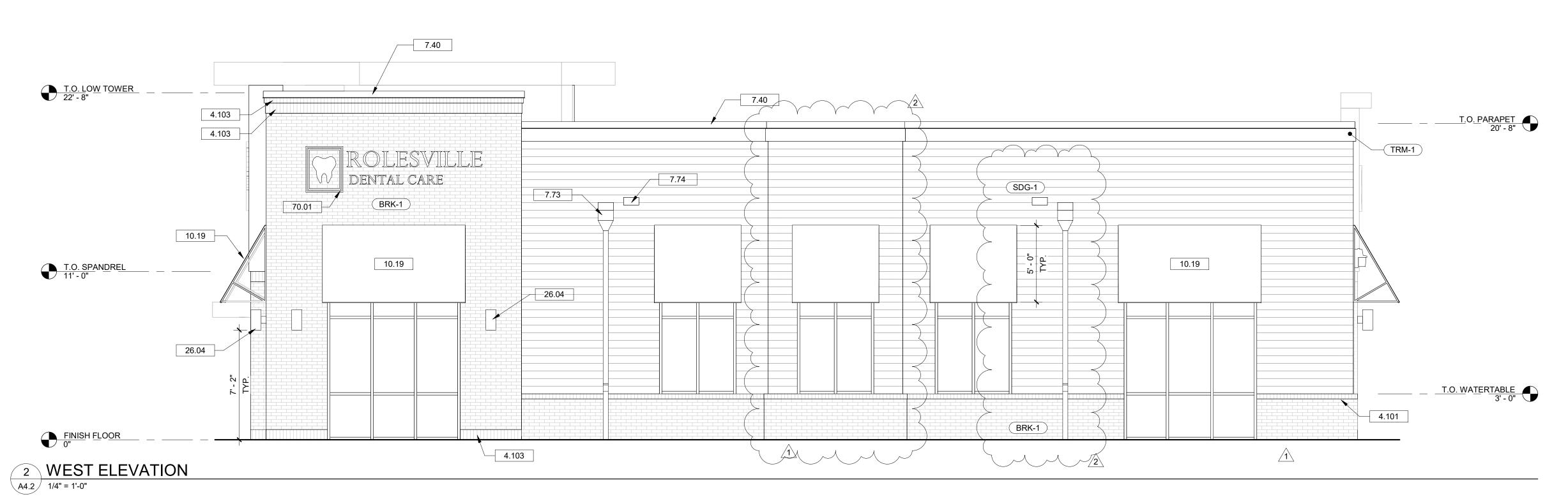
Drawing

EXTERIOR ELEVATIONS

A4.1

EXTERIOR FINISH SCHEDULE			ALL EXTERIOR FINISHES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING.			
TAG	MANUFACTURER	STYLE	DESCRIPTION	COMMENTS		
BRK-1	GLEN-GERY	BIRCHWOOD WILLIAMSBURG	BRICK VENEER, MODULAR, RUNNING BOND	OR EQUAL		
SDG-1	NICHIHA	SAVANNAH SMOOTH SIDING	PRIMED 6 1/4" SIDING - COLOR TO MATCH SW 7005 "PURE WHITE"	OR EQUAL		
STU-1	STOPOWERWALL CI	2" RIGID INSULATION	COLOR: #82 20001 "ITS WHITE', FINISH: "FINE"	OR EQUAL		
STU-2	STOPOWERWALL CI	1" RIGID INSULATION	COLOR: SPECIAL COLOR TO MATCH DARK BRONZE STOREFRONT, FINISH: "FINE"	OR EQUAL		
TRM-1	NICHIHA	NICHITRIM	PRIMED 11 1/4" TRIM BOARD - COLOR TO MATCH SW 7005 "PURE WHITE"	OR EQUAL		





WEST ELEVATION: SF = 1,029 X .30 = 308 SF OF GLAZING REQUIRED. REVISED GLAZING: 310 SF

GENERAL EXTERIOR NOTES

- A. PROVIDE CONCEALED BLOCKING BEHIND LOCATIONS OF ALL ATTACHED BUILDING SIGNAGE.
- B. COORDINATE EXTERIOR ELEVATIONS WITH ELECTRICAL AND MECHANICAL DRAWINGS.
- C. SIGNAGE SHOWN FOR REFERENCE ONLY. ALL BUILDING SIGNAGE WILL BE SUBMITTED FOR APPROVAL BY TENANT UNDER A SEPERATE PERMIT.

DRAWING NOTES

- 4.101 BRICK ROWLOCK.
- 4.103 BRICK SOLDIER COURSE.
- 7.40 PREFINISHED METAL COPING WITH CONTINUOUS CLEAT. COLOR TO Seal MATCH STOREFRONT FRAMING.
- 7.73 ROOF DRAIN SCUPPER. REFER TO 3/A1.2.
- 7.74 OVERFLOW SCUPPER. REFER TO 2/A1.2.
- 7.84 CONTROL JOINT.
- 10.19 ALUMINUM FRAMED AWNING WITH SUNBRELLA OR EQUAL CANVAS. COLOR TO BE BLACK.
- 26.04 LIGHT FIXTURE. REFER TO ELECTRICAL LIGHT FIXTURE SCHEDULE.
- 70.01 LOCATION OF FUTURE SIGNAGE BY TENANT. COORDINATE REQUIRED BLOCKING WITH SIGN VENDOR.









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Project



DENTAL OFFICE ROLESVILLE, NC

Project Number Drawn By Checked By Date 21370 JDS KMW 05 MAY 2022

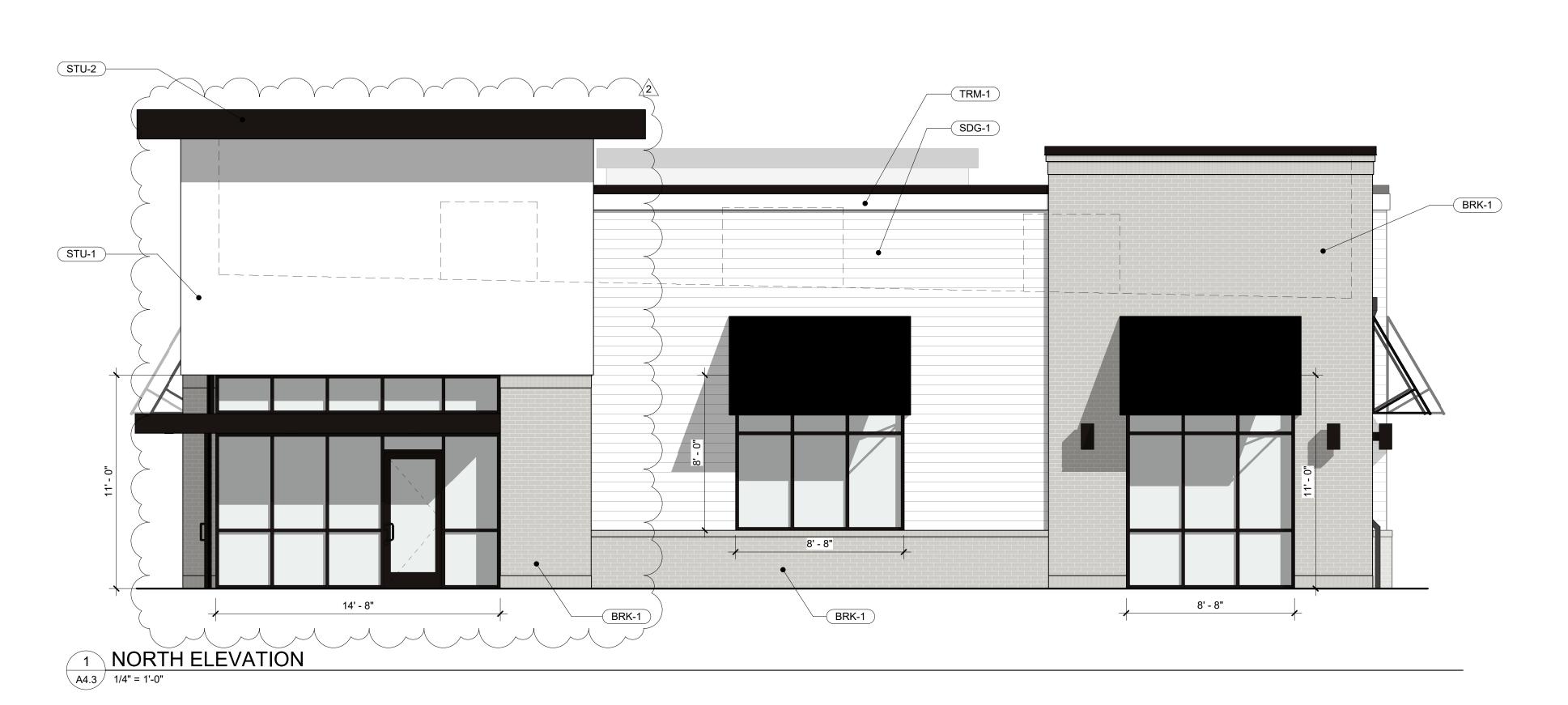
Revisions

PLANNING COMMENTS 2 2022.10.05 COMMENTS

Drawing

EXTERIOR ELEVATIONS

EXTERIOR FINISH SCHEDULE						
TAG	MANUFACTURER	STYLE	DESCRIPTION	COMMENTS		
BRK-1	GLEN-GERY	BIRCHWOOD WILLIAMSBURG	BRICK VENEER, MODULAR, RUNNING BOND	OR EQUAL		
SDG-1	NICHIHA	SAVANNAH SMOOTH SIDING	PRIMED 6 1/4" SIDING - COLOR TO MATCH SW 7005 "PURE WHITE"	OR EQUAL		
STU-1	STOPOWERWALL CI	2" RIGID INSULATION	COLOR: #82 20001 "ITS WHITE', FINISH: "FINE"	OR EQUAL		
STU-2	STOPOWERWALL CI	1" RIGID INSULATION	COLOR: SPECIAL COLOR TO MATCH DARK BRONZE STOREFRONT, FINISH: "FINE"	OR EQUAL		
TRM-1	NICHIHA	NICHITRIM	PRIMED 11 1/4" TRIM BOARD - COLOR TO MATCH SW 7005 "PURE WHITE"	OR EQUAL		





Seal







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DENTAL OFFICE ROLESVILLE, NC

> 21370 JDS KMW 05 MAY 2022

PLANNING COMMENTS

Project Number Drawn By Checked By Date

Revisions
2 2022.10.05

2 2022.10.0

Drawing

COLORED ELEVATIONS

A4.3

EXTERIOR FINISH SCHEDULE							
TAG	MANUFACTURER	STYLE	DESCRIPTION	COMMENTS			
BRK-1	GLEN-GERY	BIRCHWOOD WILLIAMSBURG	BRICK VENEER, MODULAR, RUNNING BOND	OR EQUAL			
SDG-1	NICHIHA	SAVANNAH SMOOTH SIDING	PRIMED 6 1/4" SIDING - COLOR TO MATCH SW 7005 "PURE WHITE"	OR EQUAL			
STU-1	STOPOWERWALL CI	2" RIGID INSULATION	COLOR: #82 20001 "ITS WHITE', FINISH: "FINE"	OR EQUAL			
STU-2	STOPOWERWALL CI	1" RIGID INSULATION	COLOR: SPECIAL COLOR TO MATCH DARK BRONZE STOREFRONT, FINISH: "FINE"	OR EQUAL			
TRM-1	NICHIHA	NICHITRIM	PRIMED 11 1/4" TRIM BOARD - COLOR TO MATCH SW 7005 "PURE WHITE"	OR EQUAL			



1 SOUTH ELEVATION
A4.4 1/4" = 1'-0"



2 WEST ELEVATION
A4.4 1/4" = 1'-0"

Sea







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Date 05 MAY 2022

Revisions

PLANNING COMMENTS

PLANNING COMMENTS

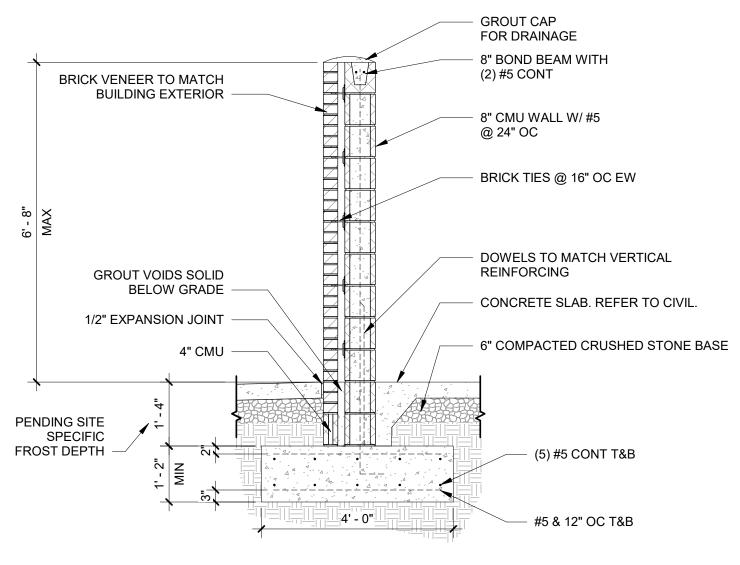
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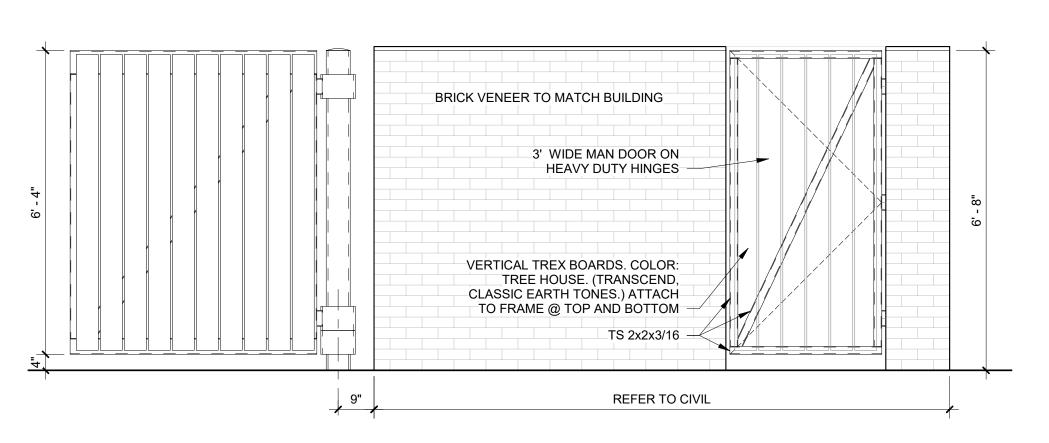
1 2022.09.06

Drawing

COLORED ELEVATIONS

A4.4



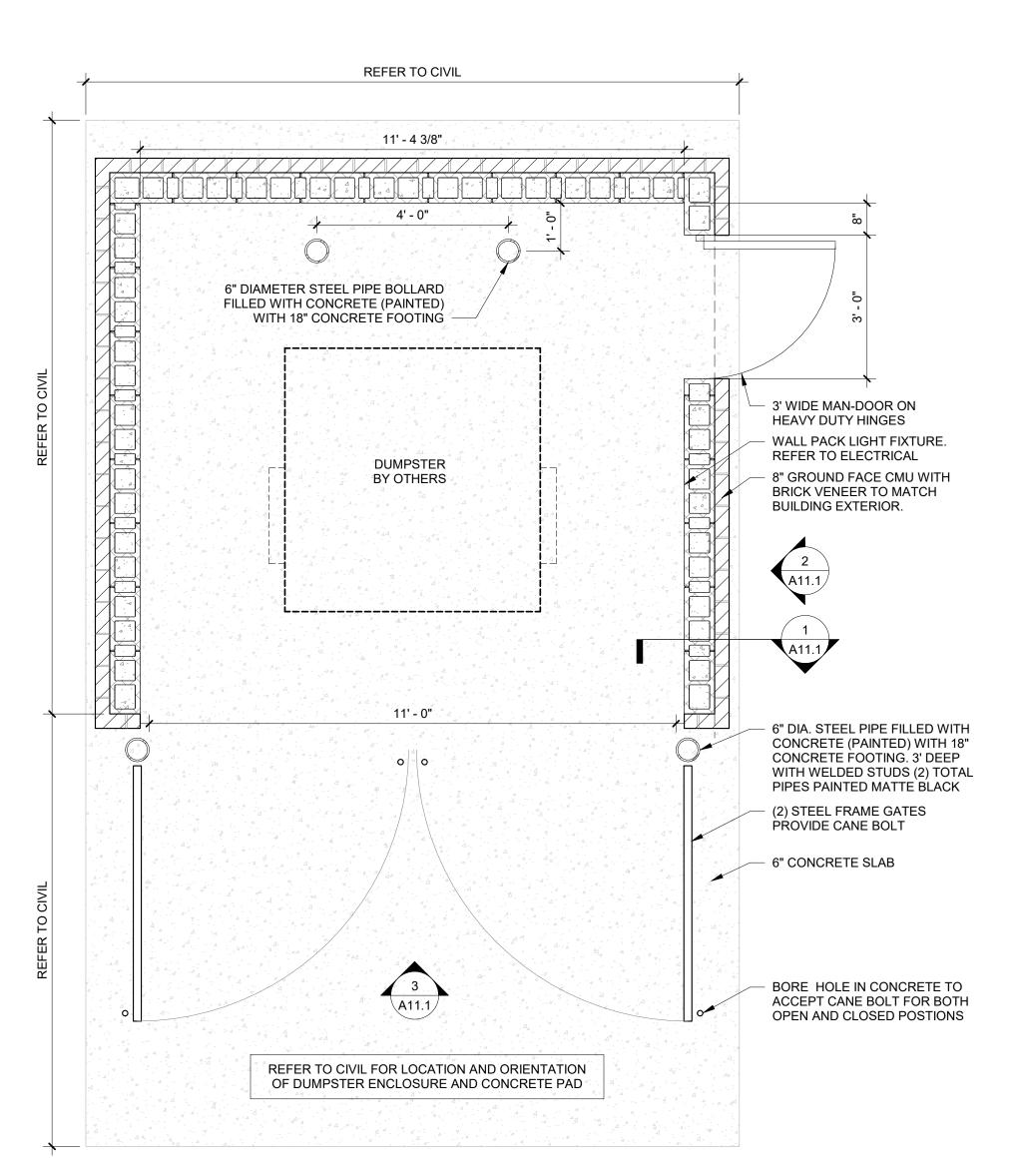


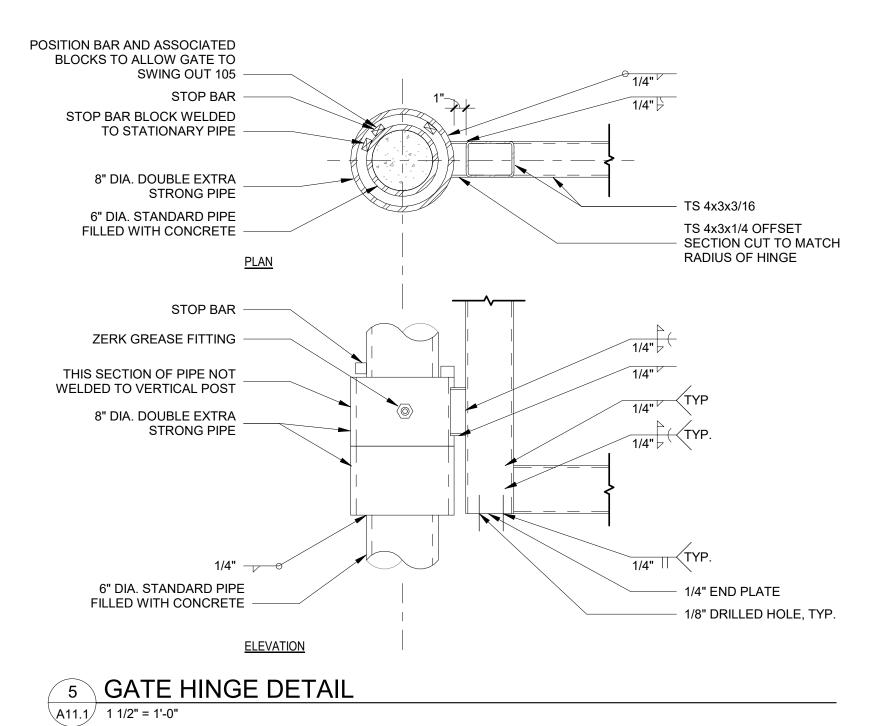
1 TRASH ENCLOSURE SECTION A11.1 1/2" = 1'-0"

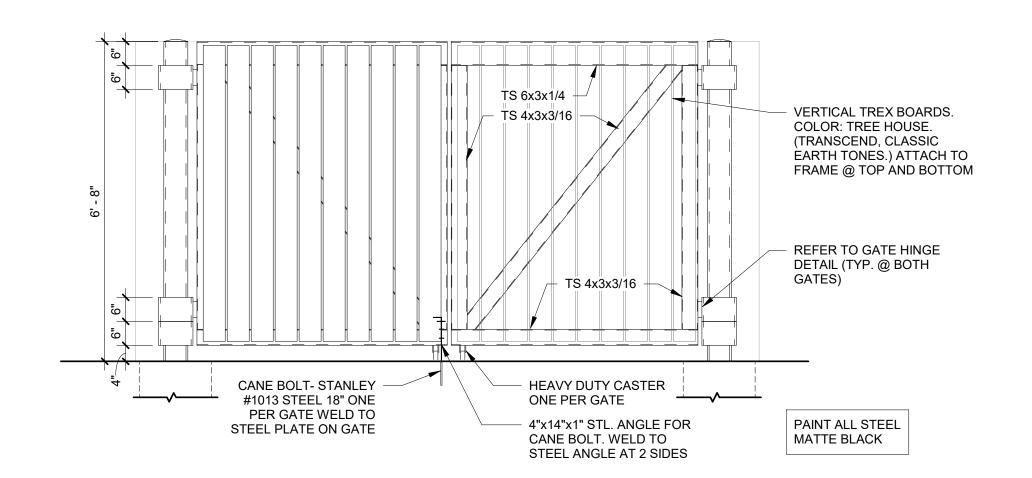
4 TRASH ENCLOSURE PLAN

A11.1 1/2" = 1'-0"

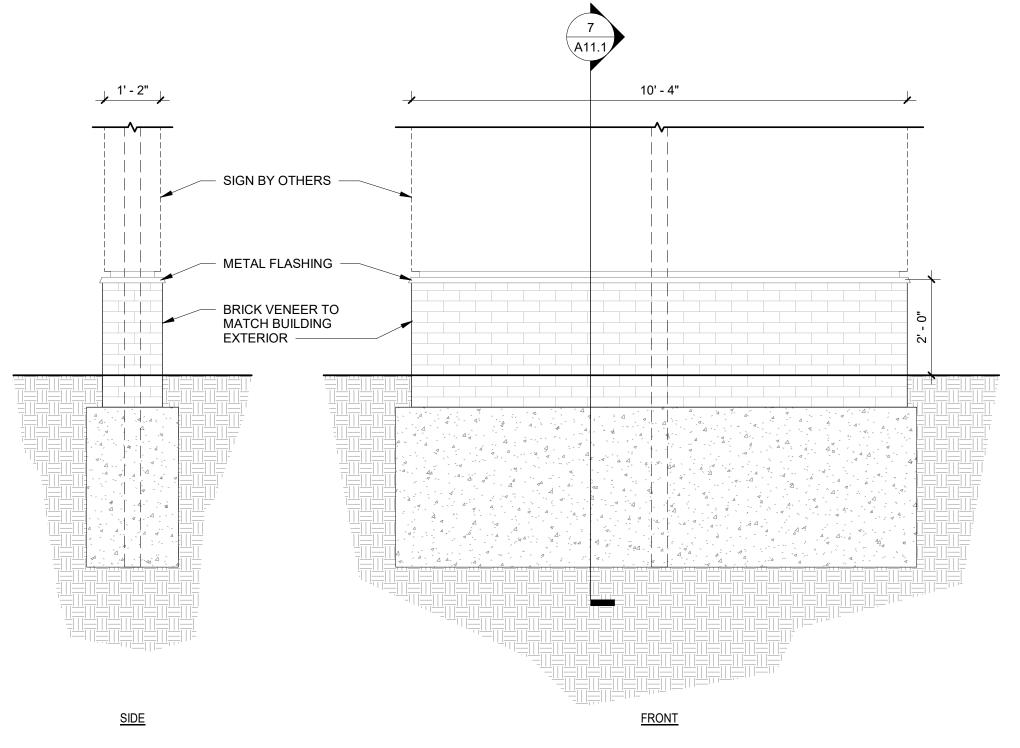
² TRASH ENCLOSURE ELEVATION AND SECTION A11.1 1/2" = 1'-0"





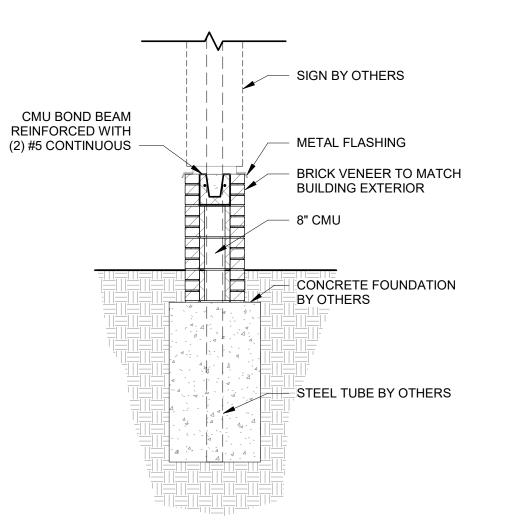


TRASH ENCLOSURE GATE ELEVATION A11.1 1/2" = 1'-0"



6 MONUMENT SIGN ELEVATIONS

A11.1 1/2" = 1'-0"



7 MONUMENT SIGN SECTION A11.1 1/2" = 1'-0"

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Drawing SITE DETAILS