

V1-SDP-23-07

THE LEARNING CENTER ROLESVILLE

302 SOUTH MAIN STREET
ROLESVILLE, NC 27571

A DEVELOPMENT BY:
ROLESVILLE, LLC.

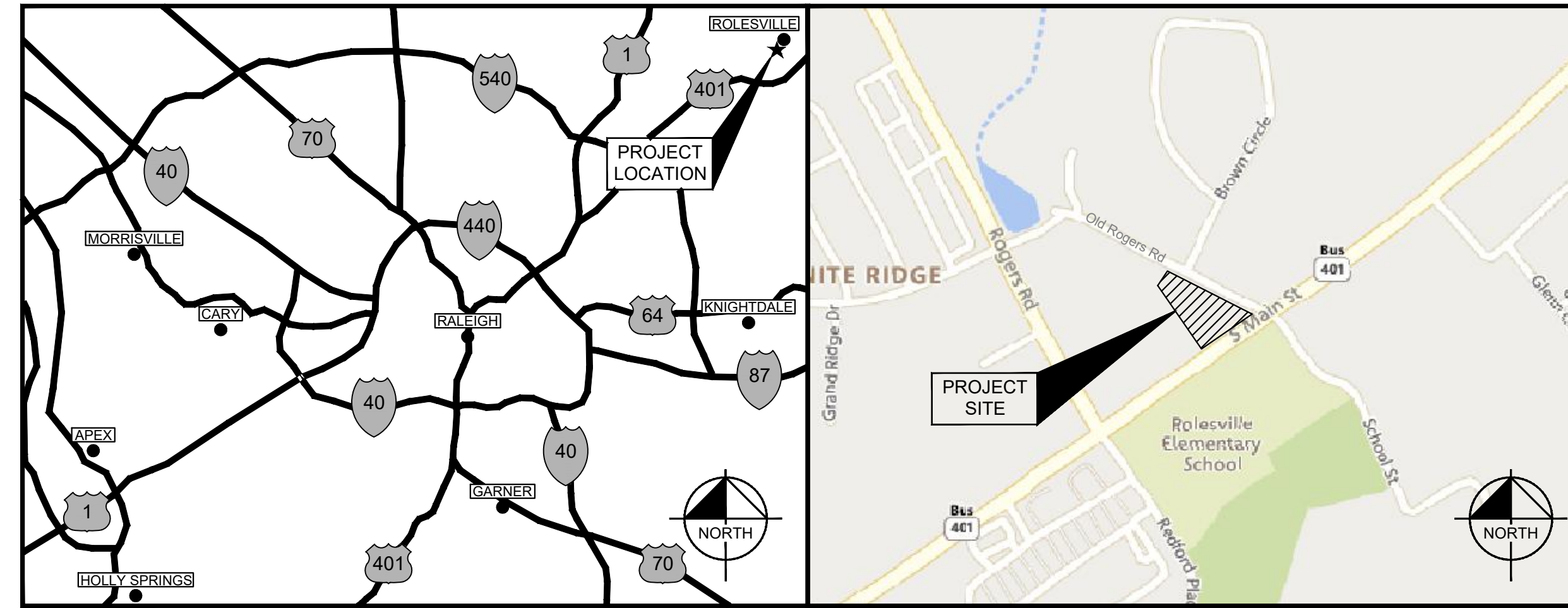
PROJECT NO.: SDPXX-XX

1. UPDATE PROJECT NUMBER SDP 23-07

2. GENERAL WE ARE NOT ABLT TO COMPLETE ENGINEERING REVIEW WITH OUT:

PLEASE PROVIDE STORM CALCS.
PLEASE PROVIDE EROSION CONTROL CALCS.
PLEASE PROVIDE CULVERT CALCS. (25-YEAR)
PLEASE PROVIDE DRAINAGE AREA MAP(S) PRE/POST
PROVIDE ALL CALCULATIONS AND MAPS NEEDED.

SITE DATA TABLE	
PIN:	1759808293
TOTAL SITE AREA:	1.25 AC
EXISTING ZONING:	GENERAL COMMERCIAL (GC)
BUFFERS:	10' LANDSCAPE
PROPERTY SETBACKS:	FRONT: 20' SIDE: 15' REAR: 35'
WATERSHED:	SANFORD CREEK
RIVER BASIN:	NEUSE
CURRENT USE:	VACANT
PROPOSED USE:	COMMERCIAL
CURRENT IMPERVIOUS:	8,680 SF
PROPOSED IMPERVIOUS:	34,457 SF
PARKING:	MIN. REQUIRED: (2.5 SPACES/1,000 SF) $\frac{\times 10,000 \text{ SF}}{= 25 \text{ SPACES}}$ MAX. ALLOWED: (5 SPACES/1,000 SF) $\frac{\times 10,000 \text{ SF}}{= 50 \text{ SPACES}}$ PROVIDED: 33 SPACES
ACCESSIBLE PARKING:	REQUIRED: 2 SPACES PROVIDED: 2 SPACES
BICYCLE PARKING:	MIN. REQUIRED: (1 SPACE/5,000 SF) $\frac{\times 10,000 \text{ SF}}{= 2 \text{ SPACES}}$ PROVIDED: 2 SPACES
TREE COVERAGE DATA:	SEE SHEET L1.0
BUILDING HEIGHT:	22'
BUILDING SQUARE FOOTAGE:	10,000 SF



PROJECT LOCATION MAP

SCALE: NOT TO SCALE

VICINITY MAP

SCALE: 1" = XXX'

PROJECT OWNERS & CONSULTANTS

OWNER/DEVELOPER

ROLESVILLE, LLC
11018 RUSHMORE DRIVE, SUITE 160
CHARLOTTE, NORTH CAROLINA 28277
CONTACT: MARLAINE KLINTWORTH
PHONE: (919) 868-4472
EMAIL: mvkcommercial@gmail.com

LANDSCAPE ARCHITECT

KIMLEY-HORN AND ASSOCIATES, INC.
421 FAYETTEVILLE ST., SUITE 600
RALEIGH, NORTH CAROLINA 27601
CONTACT: ADAM FULLERTON, MLA, ASLA
PHONE: (919) 853-2937
EMAIL: adam.fullerton@kimley-horn.com

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
421 FAYETTEVILLE ST., SUITE 600
RALEIGH, NORTH CAROLINA 27601
CONTACT: CHRIS BOSTIC, P.E.
PHONE: (919) 853-2927
EMAIL: chris.bostic@kimley-horn.com

SURVEYOR

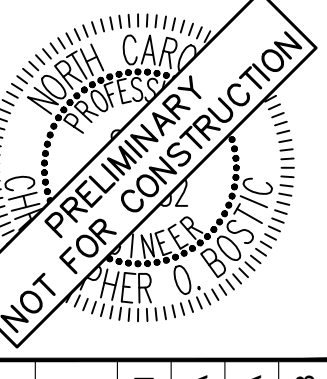
CMP PROFESSIONAL LAND SURVEYORS, PC
333 S. WHITE ST
WAKE FOREST, NORTH CAROLINA 27587
CONTACT: MICHAEL A. MOSS, PLS
PHONE: (919) 556-3148
EMAIL: mike@cnpppls.com

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, NC 27588. PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C0.1	GENERAL NOTES
C1.0	EXISTING CONDITIONS & DEMOLITION PLAN
C2.0	SITE PLAN
C3.0	GRADING PLAN
C4.0	UTILITY PLAN
C4.1	MECHANICAL PLAN
C4.2	SEPTIC TANK DETAILS
C5.0	EROSION CONTROL PLAN - PHASE 1
C5.1	EROSION CONTROL PLAN - PHASE 2
C5.2	EROSION CONTROL DETAILS
C5.3	EROSION CONTROL DETAILS
C8.0	SITE DETAILS
C8.1	SITE DETAILS
C9.0	STORM DETAILS
C9.1	STORM DETAILS
C10.0	SANITARY SEWER DETAILS
C11.0	WATER DETAILS
C11.1	WATER DETAILS
LT1.0	SITE LIGHTING PLAN
L1.0	LANDSCAPE PLAN
L2.0	LANDSCAPE DETAILS

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421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601



KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COE

COVER SHEET

THE LEARNING CENTER ROLESVILLE
PREPARED FOR
ROLESVILLE, LLC.
TOWN OF ROLESVILLE NORTH CAROLINA

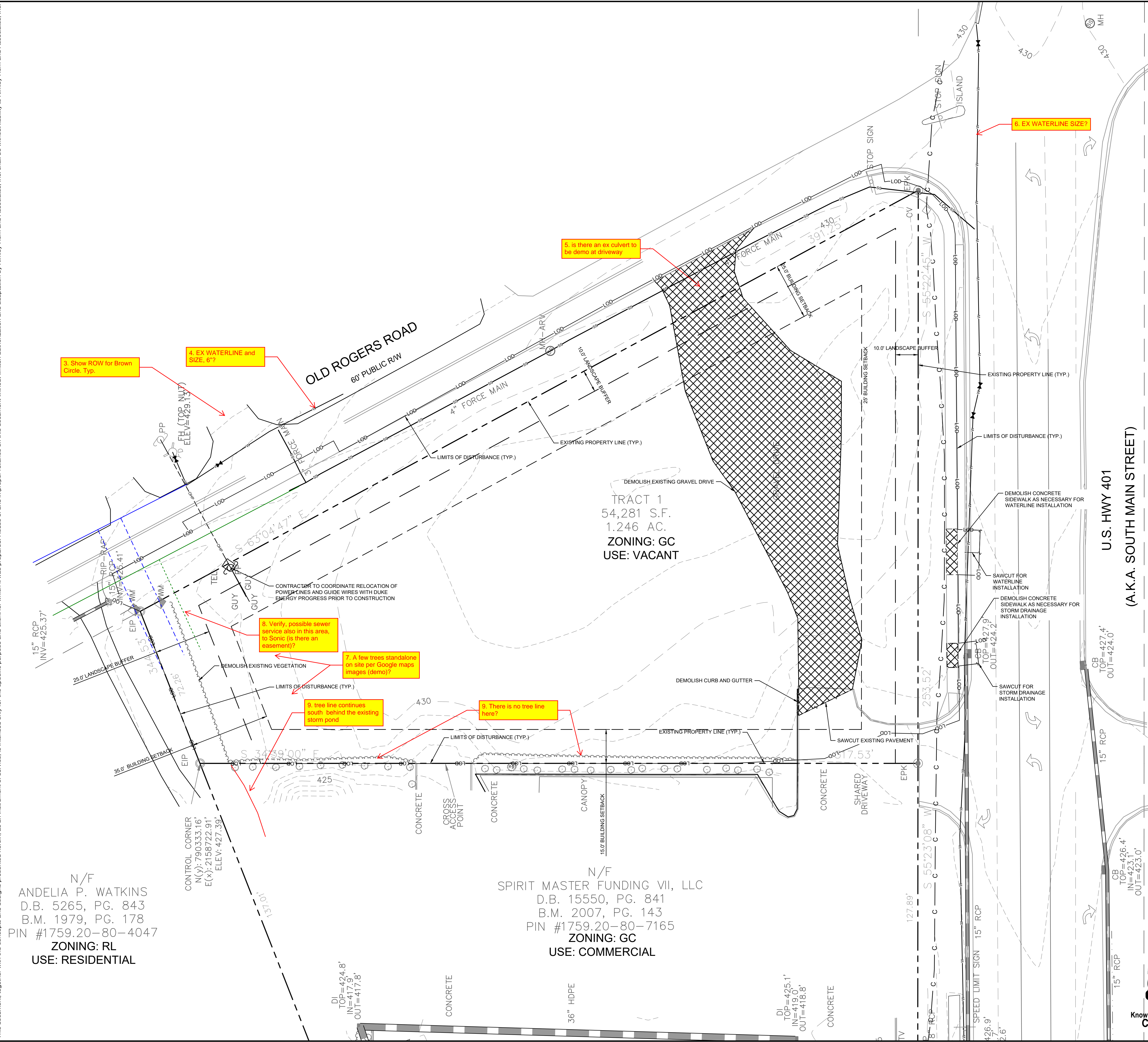
SHEET NUMBER
C0.0



Know what's below.
Call before you dig.

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE Layout: C0.0 COVER SHEET October 02, 2023 02:40:41pm K:\S\AL_LDEV\013031004_Rolesville_Leaning_Center\PT10_CAD Files\PlanSheets\C0.0 COVER SHEET.dwg
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Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, LAYOUT: C-003 EXISTING CONDITIONS & DEMOLITION PLAN, October 02, 2022, 02:40:53pm, K:\RAL_LDEV\013031004_Rolesville_Leaning_Center\10_CAD Files\PlanSheets\C-003 EXISTING CONDITIONS & DEMOLITION PLAN.dwg
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3. Show ROW for Brown Circle, Typ.

4. EX WATERLINE and SIZE, 6\"/>

5. Is there an ex culvert to be demo at driveway

6. EX WATERLINE SIZE?

8. Verify, possible sewer service also in this area, to Sonic (is there an easement)?

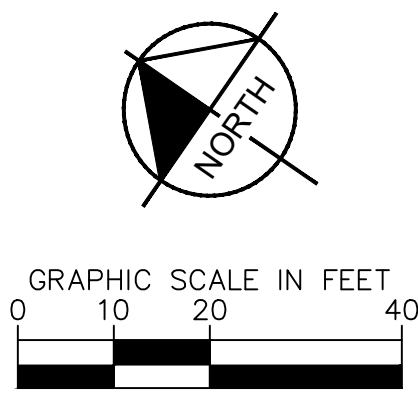
7. A few trees stand alone on site per Google maps images (demo)?

9. tree line continues south behind the existing storm pond

9. There is no tree line here?

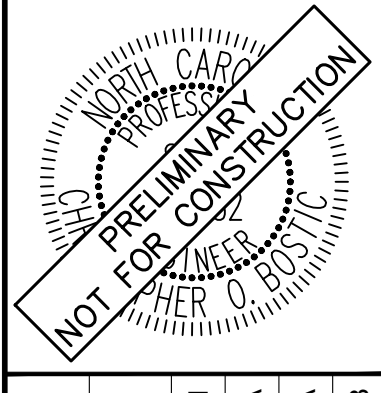
10. IMAPS shows that there is currently a septic tank permitted on site. Provide documentation that septic tank and leach field have been remediated/abandoned or let us know how you are planning to manage the on-site septic system. Please add location to the existing condition sheet.

SURVEY NOTE:
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DEMOLITION LEGEND	
	PROPERTY LINE
	LIMITS OF DISTURBANCE
	DEMOLISH SITE ITEM
	DEMOLISH UNDERGROUND UTILITY
	ABANDON UTILITY IN PLACE
	SAWCUT
	DEMOLISH SITE ITEM/TREE TO BE REMOVED
	BUILDINGS TO BE REMOVED
	SIDEWALK/PAVEMENT/GRAVEL TO BE REMOVED

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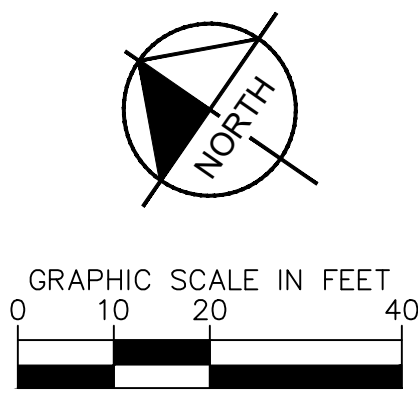
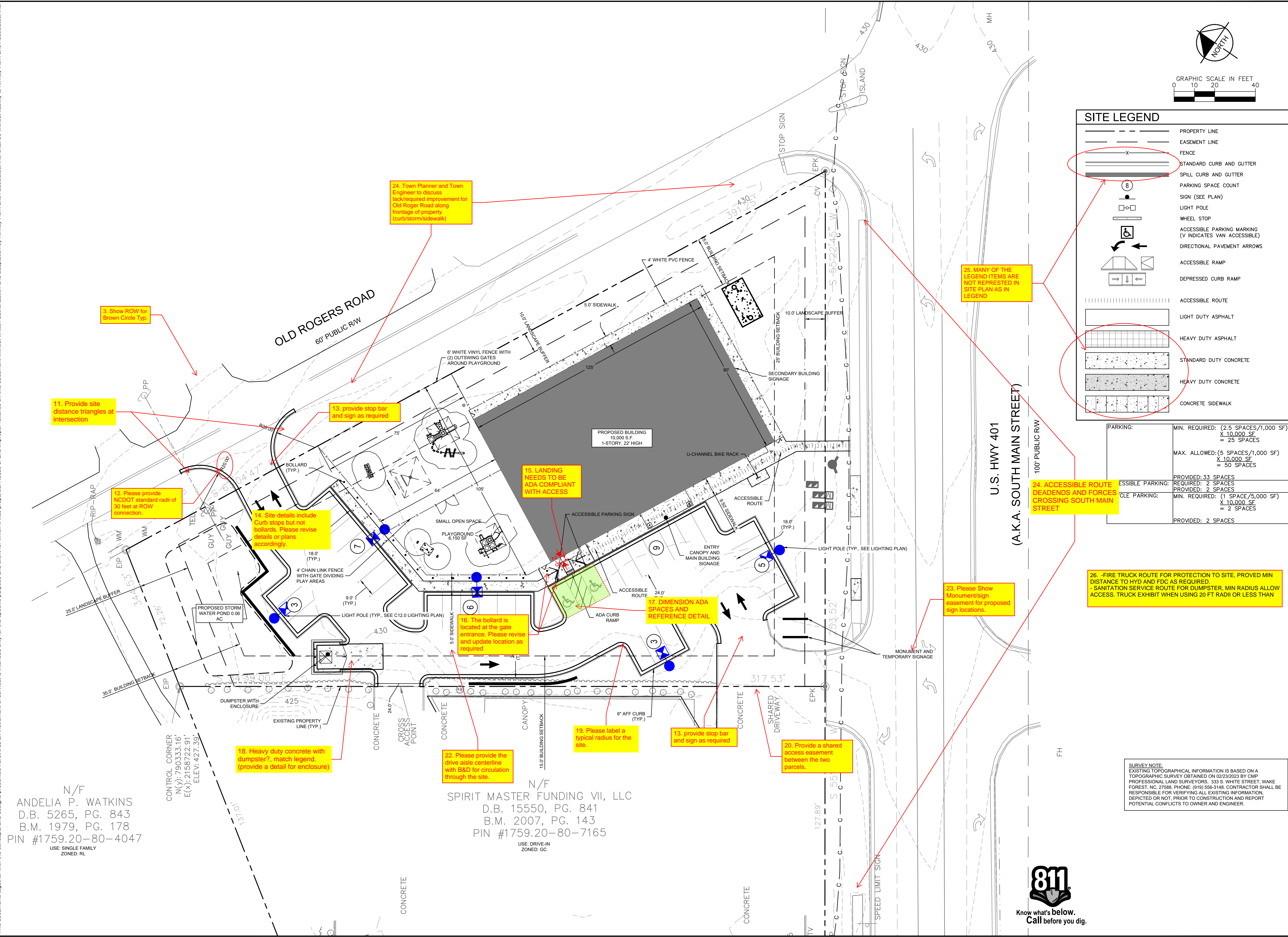
KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COB

EXISTING CONDITIONS & DEMOLITION PLAN

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 TOWN OF ROLESVILLE, NORTH CAROLINA



Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: C2.0 SITE PLAN, October 02, 2023 09:41:05pm K:\RAL\LEVO\13031004_Rolesville_Layout_Center\10_CAD Files\Plan\Sheet\C2.0 SITE PLAN.dwg
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SITE LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	FENCE
	STANDARD CURB AND GUTTER
	SPILL CURB AND GUTTER
	PARKING SPACE COUNT
	SIGN (SEE PLAN)
	LIGHT POLE
	WHEEL STOP
	ACCESSIBLE PARKING MARKING (V INDICATES VAN ACCESSIBLE)
	DIRECTIONAL PAVEMENT ARROWS
	ACCESSIBLE RAMP
	DEPRESSED CURB RAMP
	ACCESSIBLE ROUTE
	LIGHT DUTY ASPHALT
	HEAVY DUTY ASPHALT
	STANDARD DUTY CONCRETE
	HEAVY DUTY CONCRETE
	CONCRETE SIDEWALK

PARKING:	MIN. REQUIRED: (2.5 SPACES/1,000 SF)	X 10,000 SF	= 25 SPACES
	MAX. ALLOWED: (5 SPACES/1,000 SF)	X 10,000 SF	= 50 SPACES
ESSENTIAL PARKING:	PROVIDED: 33 SPACES	REQUIRED: 7 SPACES	
CLE PARKING:	PROVIDED: 2 SPACES	MIN. REQUIRED: (1 SPACE/5,000 SF)	X 10,000 SF
			= 2 SPACES
			PROVIDED: 2 SPACES

DATE: _____ BY: _____

REVISIONS: _____

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SITE PLAN

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
 ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

SHEET NUMBER
C2.0

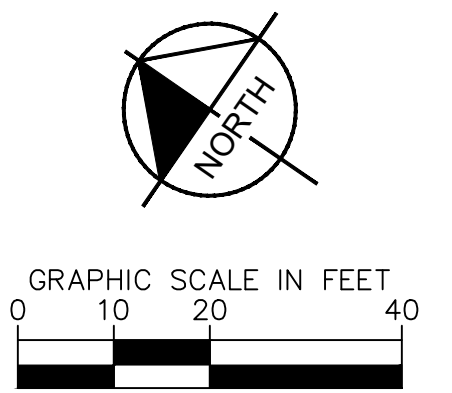
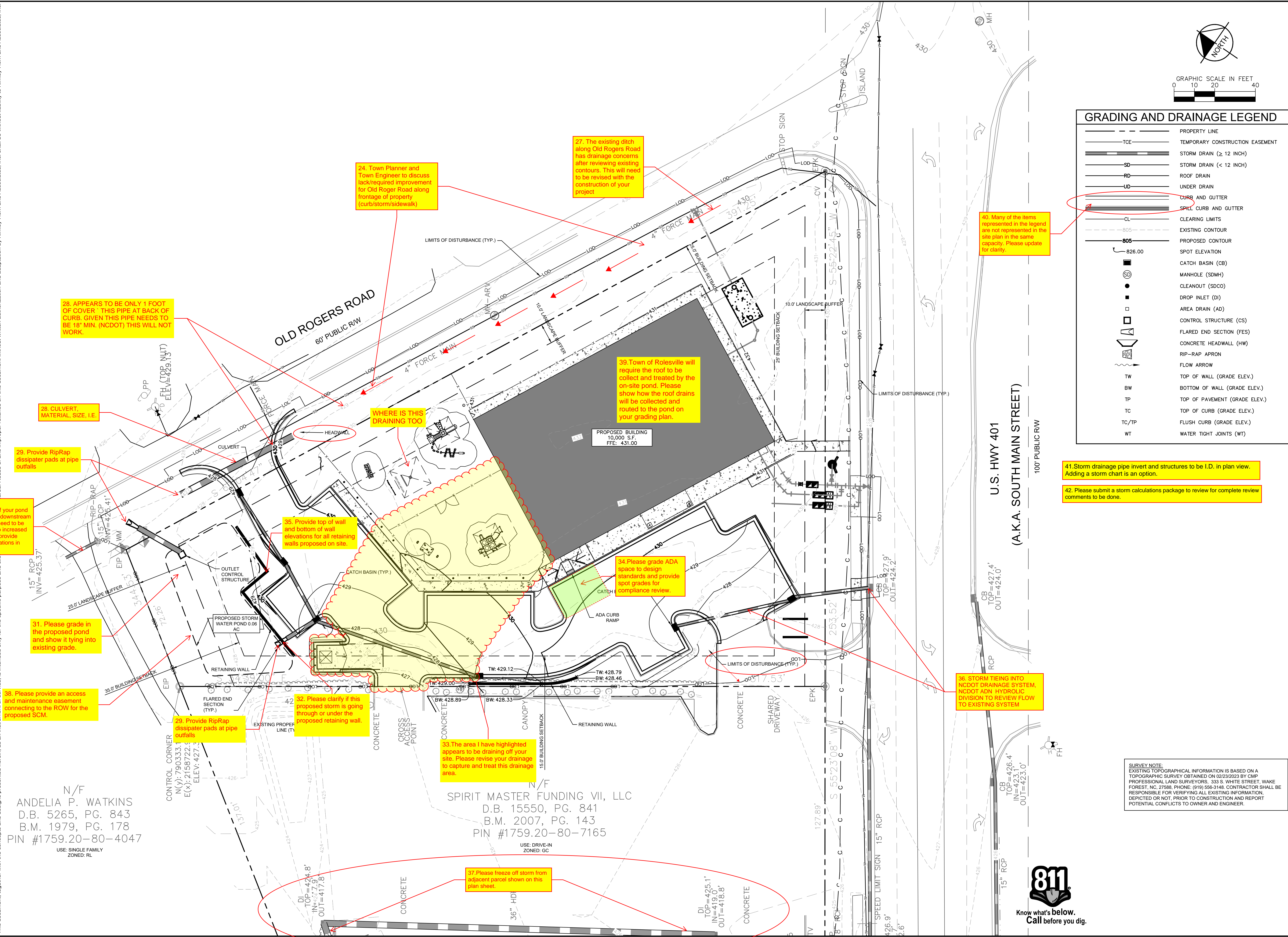
N/F
 ANDELIA P. WATKINS
 D.B. 5265, PG. 843
 B.M. 1979, PG. 178
 PIN #1759.20-80-4047
 USE: SINGLE FAMILY
 ZONED: RL

N/F
 SPIRIT MASTER FUNDING VII, LLC
 D.B. 15550, PG. 841
 B.M. 2007, PG. 143
 PIN #1759.20-80-7165
 USE: DRIVE-IN
 ZONED: GC

SURVEY NOTE:
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PLOTTED BY: JAMAL SHEET TITLE: THE LEARNING CENTER ROLESVILLE, LAYOUT: C3.0 GRADING PLAN, DATE: 02/23/2023, 02:41:23 PM, K:\B\AL_LDE\013031004...
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GRADING AND DRAINAGE LEGEND	
---	PROPERTY LINE
---	TEMPORARY CONSTRUCTION EASEMENT
---	STORM DRAIN (< 12 INCH)
---	STORM DRAIN (> 12 INCH)
---	ROOF DRAIN
---	UNDER DRAIN
---	CURB AND GUTTER
---	SPILL CURB AND GUTTER
---	CLEARING LIMITS
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	SPOT ELEVATION
---	CATCH BASIN (CB)
---	MANHOLE (SDMH)
---	CLEANOUT (SDCO)
---	DROP INLET (DI)
---	AREA DRAIN (AD)
---	CONTROL STRUCTURE (CS)
---	FLARED END SECTION (FES)
---	CONCRETE HEADWALL (HW)
---	RIP-RAP APRON
---	FLOW ARROW
---	TOP OF WALL (GRADE ELEV.)
---	BOTTOM OF WALL (GRADE ELEV.)
---	TOP OF PAVEMENT (GRADE ELEV.)
---	TOP OF CURB (GRADE ELEV.)
---	FLUSH CURB (GRADE ELEV.)
---	WATER TIGHT JOINTS (WT)

40. Many of the items represented in the legend are not represented in the site plan in the same capacity. Please update for clarity.

41. Storm drainage pipe invert and structures to be I.D. in plan view. Adding a storm chart is an option.

42. Please submit a storm calculations package to review for complete review comments to be done.

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28. APPEARS TO BE ONLY 1 FOOT OF COVER THIS PIPE AT BACK OF CURB. GIVEN THIS PIPE NEEDS TO BE 18" MIN. (NCDOT) THIS WILL NOT WORK.

24. Town Planner and Town Engineer to discuss lack/required improvement for Old Roger Road along frontage of property (curb/storm/sidewalk)

27. The existing ditch along Old Rogers Road has drainage concerns after reviewing existing contours. This will need to be revised with the construction of your project

39. Town of Rolesville will require the roof to be collected and treated by the on-site pond. Please show how the roof drains will be collected and routed to the pond on your grading plan.

WHERE IS THIS DRAINING TOO

28. CULVERT MATERIAL, SIZE, I.E.

30. The culvert downstream of your pond and any other downstream culverts may need to be upsized due to increased flows. Please provide needed calculations in these areas.

35. Provide top of wall and bottom of wall elevations for all retaining walls proposed on site.

34. Please grade ADA space to design standards and provide spot grades for compliance review.

31. Please grade in the proposed pond and show it tying into existing grade.

38. Please provide an access and maintenance easement connecting to the ROW for the proposed SCM.

29. Provide RipRap dissipater pads at pipe outfalls

32. Please clarify if this proposed storm is going through or under the proposed retaining wall.

33. The area I have highlighted appears to be draining off your site. Please revise your drainage to capture and treat this drainage area.

36. STORM TIEING INTO NCDOT DRAINAGE SYSTEM, NCDOT ADN HYDROLOGIC DIVISION TO REVIEW FLOW TO EXISTING SYSTEM

37. Please freeze off storm from adjacent parcel shown on this plan sheet.

N/F
 ANDELIA P. WATKINS
 D.B. 5265, PG. 843
 B.M. 1979, PG. 178
 PIN #1759.20-80-4047
 USE, SINGLE FAMILY ZONED: RL

N/F
 SPIRIT MASTER FUNDING VII, LLC
 D.B. 15550, PG. 841
 B.M. 2007, PG. 143
 PIN #1759.20-80-7165
 USE, DRIVE-IN ZONED: GC

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NO.	REVISIONS	BY	DATE

NOT FOR CONSTRUCTION

PREPARED FOR: THE LEARNING CENTER ROLESVILLE

DESIGNED BY: JAA
 DRAWN BY: JAA
 CHECKED BY: COE

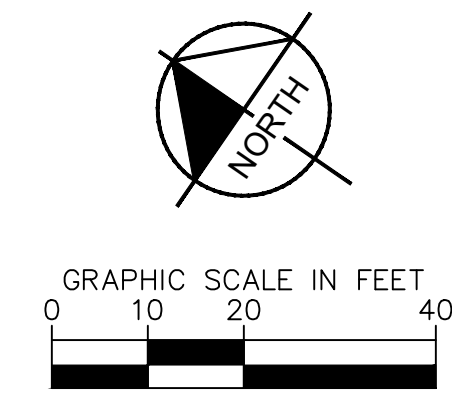
GRADING PLAN

SHEET NUMBER **C3.0**

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: C4.0 UTILITY PLAN, October 02, 2023, 02:41:39pm. K:\RAL_LDE\0130031004_Rolesville_Layout\Center\T10_CAD Files\Plan\Sheet\C4.0 UTILITY PLAN.dwg
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STANDARD UTILITY NOTES

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS & SPECIFICATIONS
- UTILITY SEPARATION REQUIREMENTS:
 - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
 - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
 - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
 - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
 - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE.
 - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT.
- INSTALL 2" WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'x2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
- INSTALL 4" PVC SEWER SERVICES @ 2.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDOW, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- NC DOT ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE ROW PRIOR TO CONSTRUCTION.
- CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT.
- THE STATE OF NORTH CAROLINA AND C.O.R. PUBLIC WORKS DEPT. SHALL BE NOTIFIED IN WRITING PRIOR TO UTILITY INSTALLATION AND FOR SCHEDULING INSPECTIONS.



UTILITY LEGEND	
---	PROPERTY LINE
W	WATER LINE
FW	FIRE LINE
SS	SANITARY SEWER LINE
E	ELECTRIC
FO	FIBER OPTIC
G	GAS
P	POWER
T	TELECOMMUNICATION
C	CABLE
LP	LIGHT POLE
WM	WATER METER
GV	GATE VALVE
PC	POINT OF CONNECTION
BP	BACKFLOW PREVENTOR
RT	REDUCER
FD	FIRE HYDRANT (FH)
FDC	FIRE DEPARTMENT CONNECTION (FDC)
SSCO	SANITARY SEWER CLEANOUT (SSCO)
SSMH	SANITARY SEWER MANHOLE (SSMH)
SGT	SANITARY SEWER GREASE TRAP

Kimley»Horn

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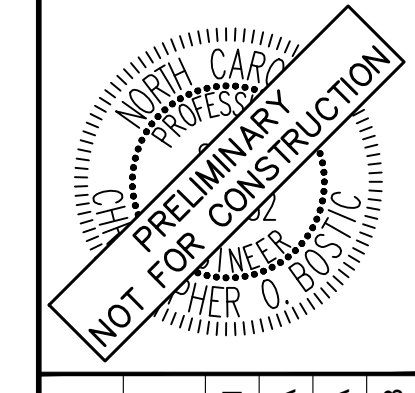
NO.	REVISIONS	DATE	BY
1			
2			
3			
4			
5			
6			
7			

STANDARD UTILITY NOTES (CONT.)

- TRAFFIC CONTROLS FOR ANY UTILITY WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE IN COMPLIANCE WITH STANDARDS OF THE NORTH CAROLINA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- IN THE EVENT AN ITEM IS NOT COVERED BY THESE PLANS, THEN THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT HANDBOOK COVERING SUCH ITEMS SHALL APPLY.
- IF CITY OF RALEIGH WATER AND SANITARY SEWER PERMITS ARE REQUIRED, CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT FEES.
- LOCATIONS AND SIZES OF EXISTING WATER AND SEWER LINES SHOWN ON THESE PLANS WITHIN THE PROPERTY LIMITS OF THE SITE ARE ASSUMED BASED ON SURVEY OF SURFACE FEATURES (MANHOLES, VALVES, VAULTS, METERS, ETC.) PREPARED BY GSC SURVEYING, INC., 4072 BARRETT DRIVE, RALEIGH, N.C. 27609. IT IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING UTILITIES PRIOR TO COMMENCING WORK. ANY DEVIATIONS FROM WHAT IS INDICATED ON THESE PLANS SHALL BE REPORTED TO THE DEVELOPER AND ENGINEER, IN WRITING, IMMEDIATELY.
- CONTRACTOR SHALL PROVIDE A MEANS TO KEEP ALL NEW PIPING ISOLATED FROM EXISTING PIPING UNTIL ALL NEW PIPING HAS BEEN TESTED, AND ACCEPTED FOR SERVICE.
- EXISTING UTILITIES SHALL BE PROTECTED DURING ALL CONSTRUCTION.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE, STRUCTURES, AND FITTINGS SHALL BE INSPECTED BY THE CITY INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISINFECTION AND PRESSURE TESTING OF ALL MAINS. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
- UTILITY WORK SHALL BE INSPECTED AND ACCEPTED BY CITY OF RALEIGH PRIOR TO PLACING INTO SERVICE.
- THERE SHALL BE A MINIMUM 3' CLEAR DISTANCE AROUND ALL FIRE HYDRANTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "AS-BUILT" PLANS, PER CITY OF RALEIGH REQUIREMENTS, TO THE ENGINEER SHOWING THE LOCATION OF WATER AND SEWER SERVICES AND ANY DEVIATIONS FROM PLANS MADE DURING CONSTRUCTION. THE ENGINEER WILL PROVIDE THESE RECORD PLANS TO THE CITY OF RALEIGH.

44. Service Route accessibilities:
 a. Please define fire truck route for site protection
 b. FDC required within maximum allowable distance from hydrant.
 c. Sanitation service route for dumpster. Does the Min. radius allow access. Provide a truck exhibit when using radii of 20 feet or less.
 d. Label Radii when they are not typical.

SURVEY NOTE:
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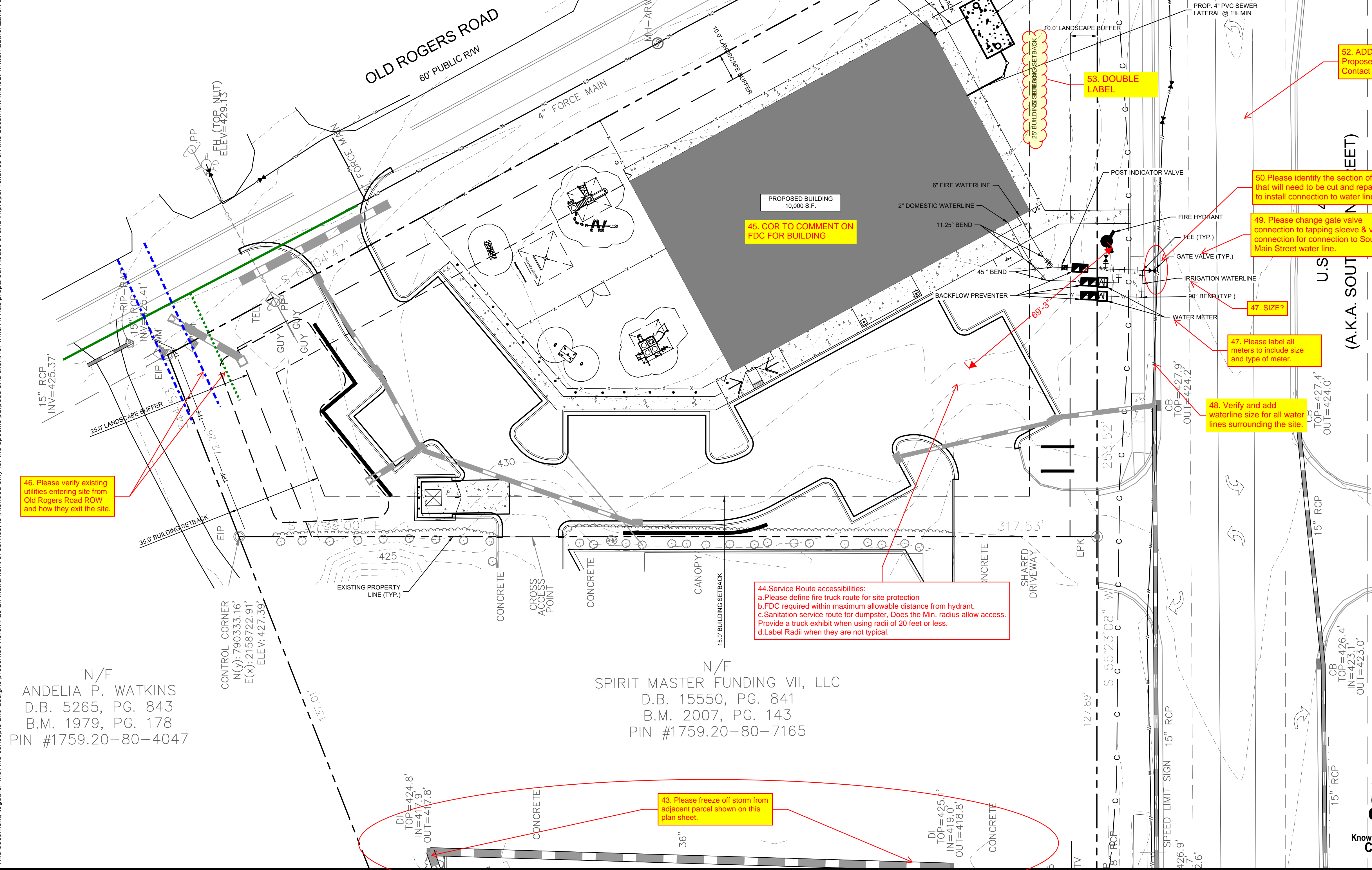


KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
013031004	09/29/2023	AS SHOWN	JAA	JAA	COB

UTILITY PLAN

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

SHEET NUMBER
C4.0



N/F
 ANDELIA P. WATKINS
 D.B. 5265, PG. 843
 B.M. 1979, PG. 178
 PIN #1759.20-80-4047

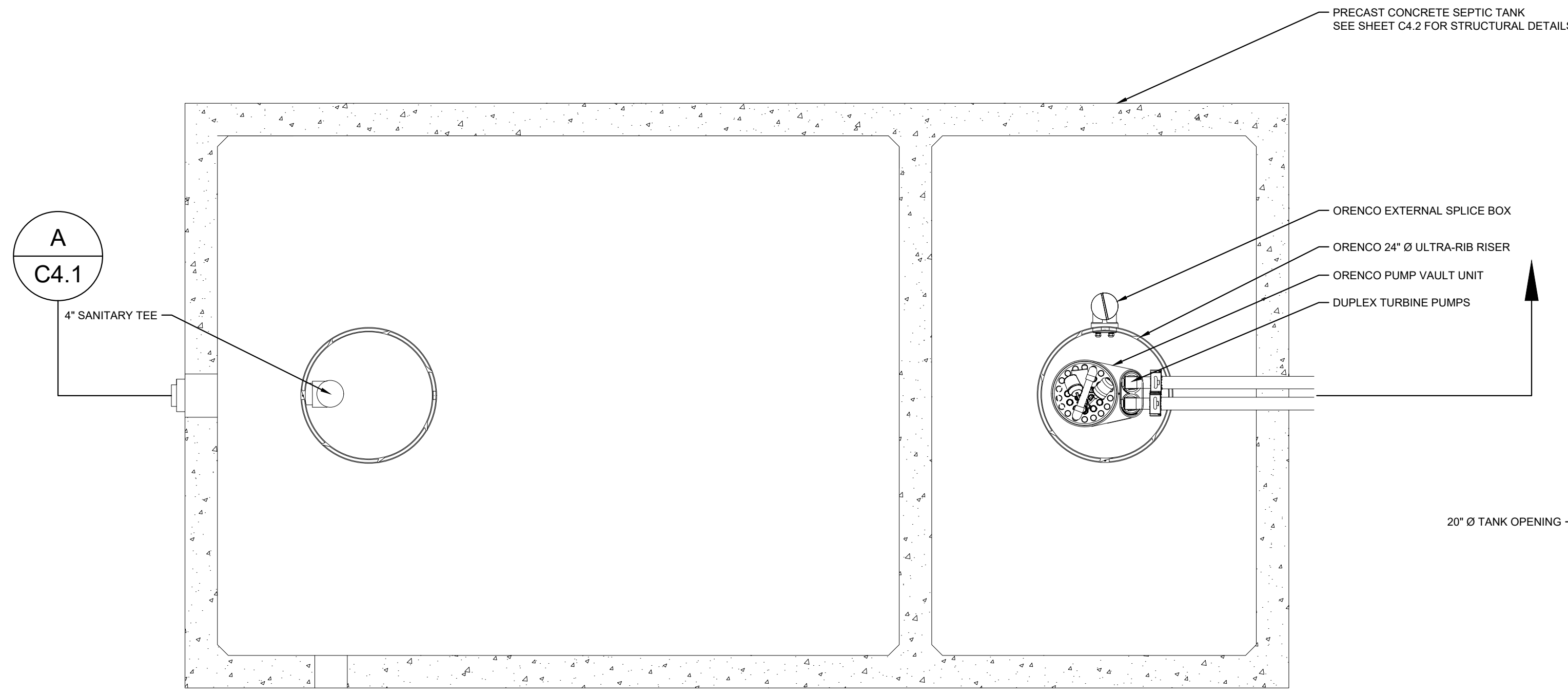
N/F
 SPIRIT MASTER FUNDING VII, LLC
 D.B. 15550, PG. 841
 B.M. 2007, PG. 143
 PIN #1759.20-80-7165



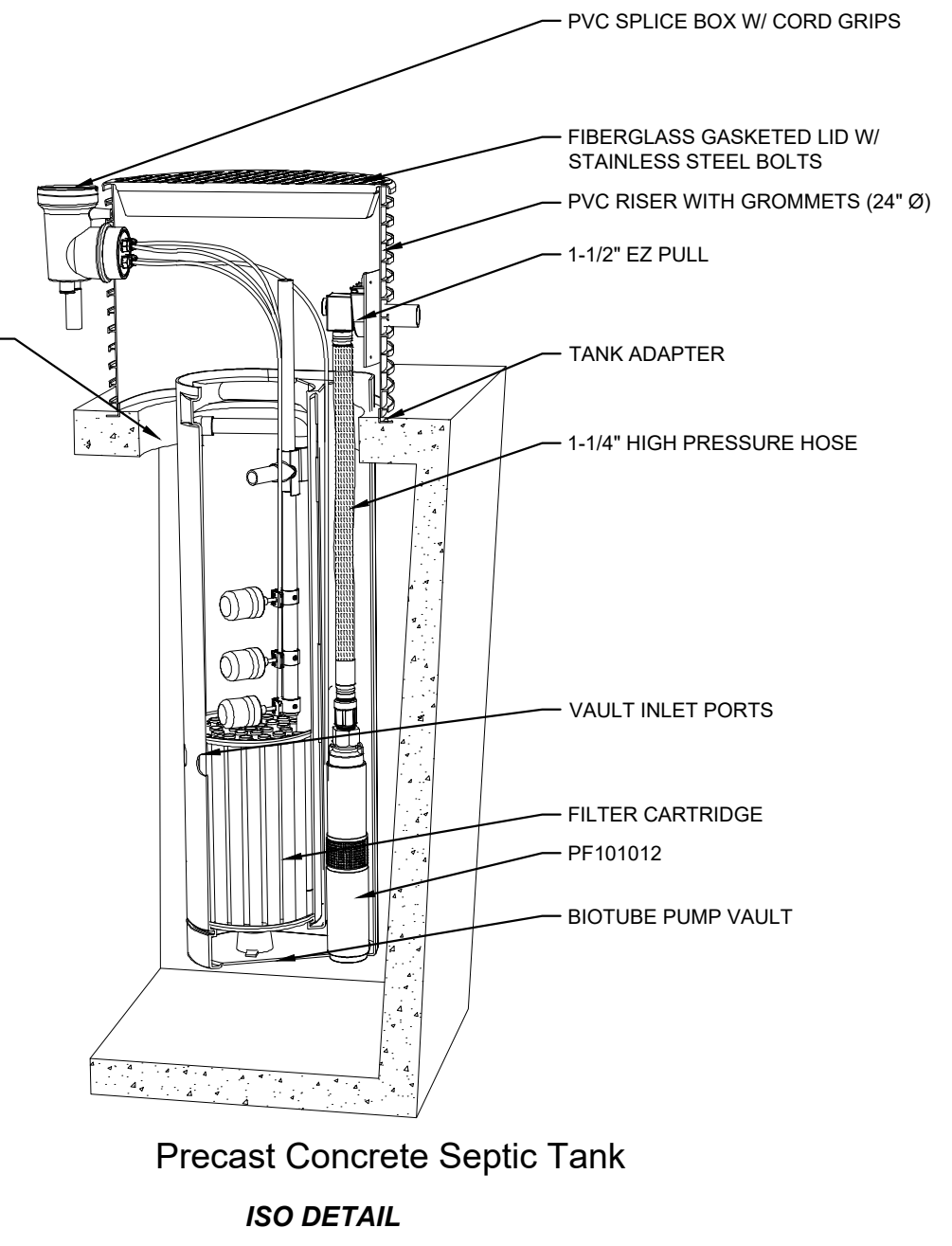
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 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NOTES:
 1) PROPOSED STEP SYSTEM SHALL BE EQUIPPED WITH A "VERICOMM DAX RO" CONTROL PANEL OR APPROVED EQUAL. CONTACT MICHAEL CLAYTON (MCLAYTON@AQWA.NET, 252-292-1667) FOR STEP SYSTEM SPECIFICATIONS.

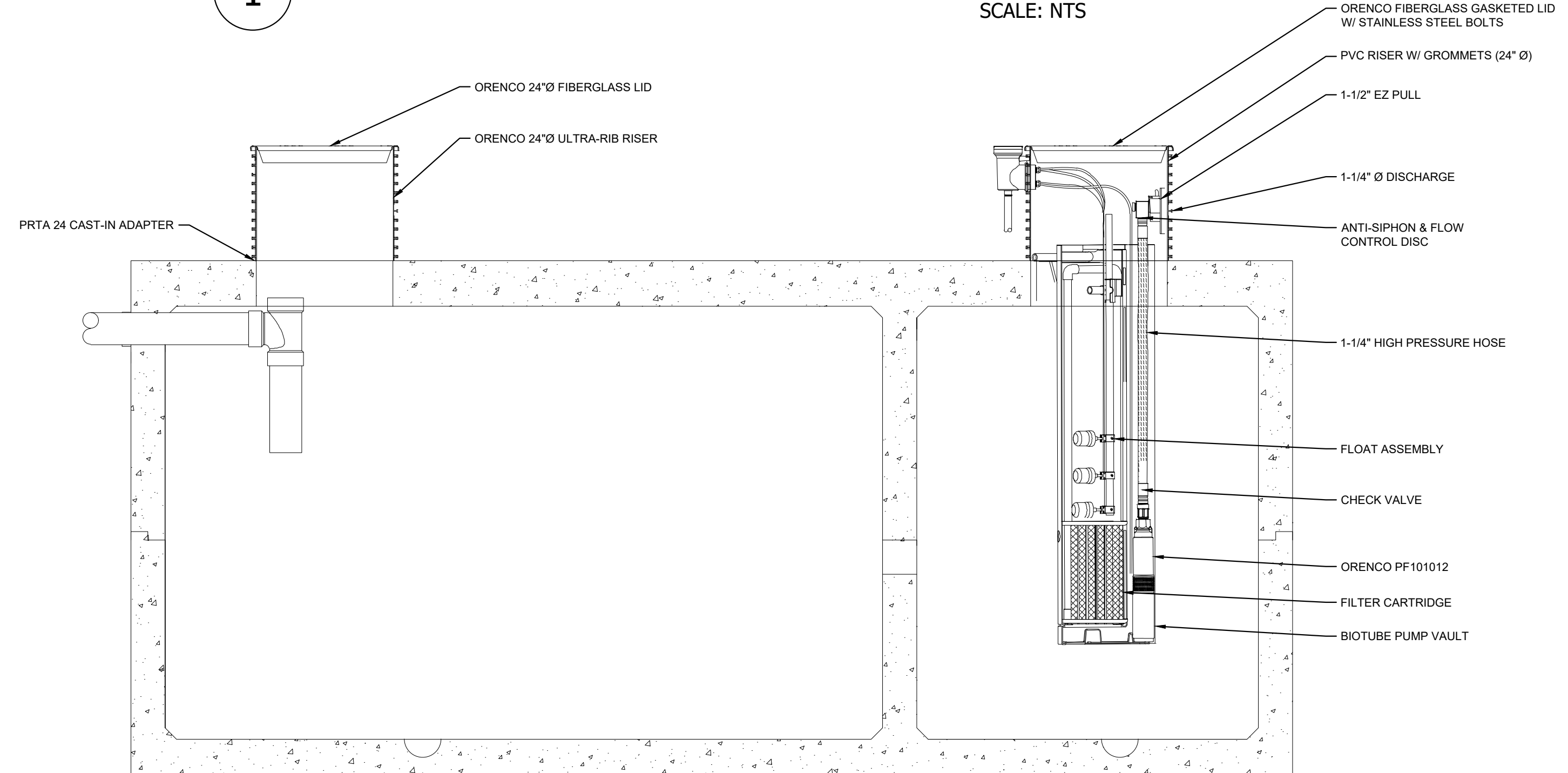
PUMP STATION GENERAL INFORMATION	
AVERAGE DAILY FLOW	4,400 GPD
TANK DIMENSIONS	20'x10'x7'-9" (INSIDE DIMENSIONS), 10,000 GAL MIN.
DISCHARGE PIPING	1.25" Ø SCH 80 PVC
HORSEPOWER	1 HP (NON-OVERLOADING OVER ENTIRE PUMP CURVE)
VOLTAGE/PHASE/CYCLES	240 V / 1 PHASE / 60 HZ
PUMP	ORENCO PF101012
PRIMARY LEVEL SENSING METHOD	FLOATS (3)



1 MECHANICAL PLAN VIEW
 SCALE: NTS

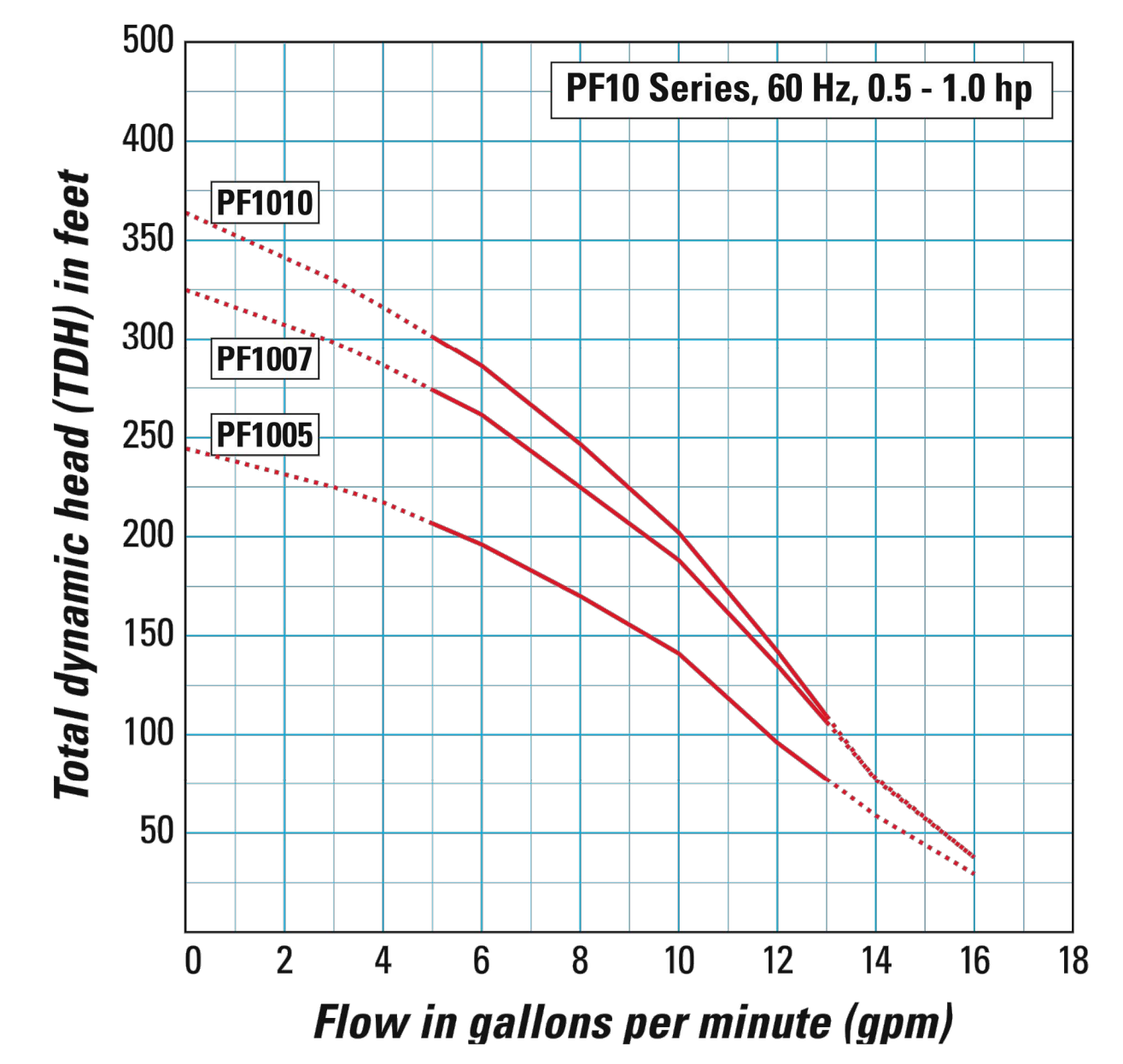


Precast Concrete Septic Tank
 ISO DETAIL



A
C4.1 MECHANICAL SECTION VIEW
 SCALE: NTS

Pump Curves

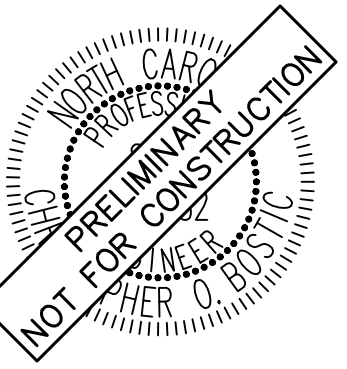


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NO.	REVISIONS	BY	DATE

Kimley»Horn
 © 2023 KIMLEY-HORN AND ASSOCIATES, INC.
 #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919-677-2000 FAX: 919-677-2050
 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601



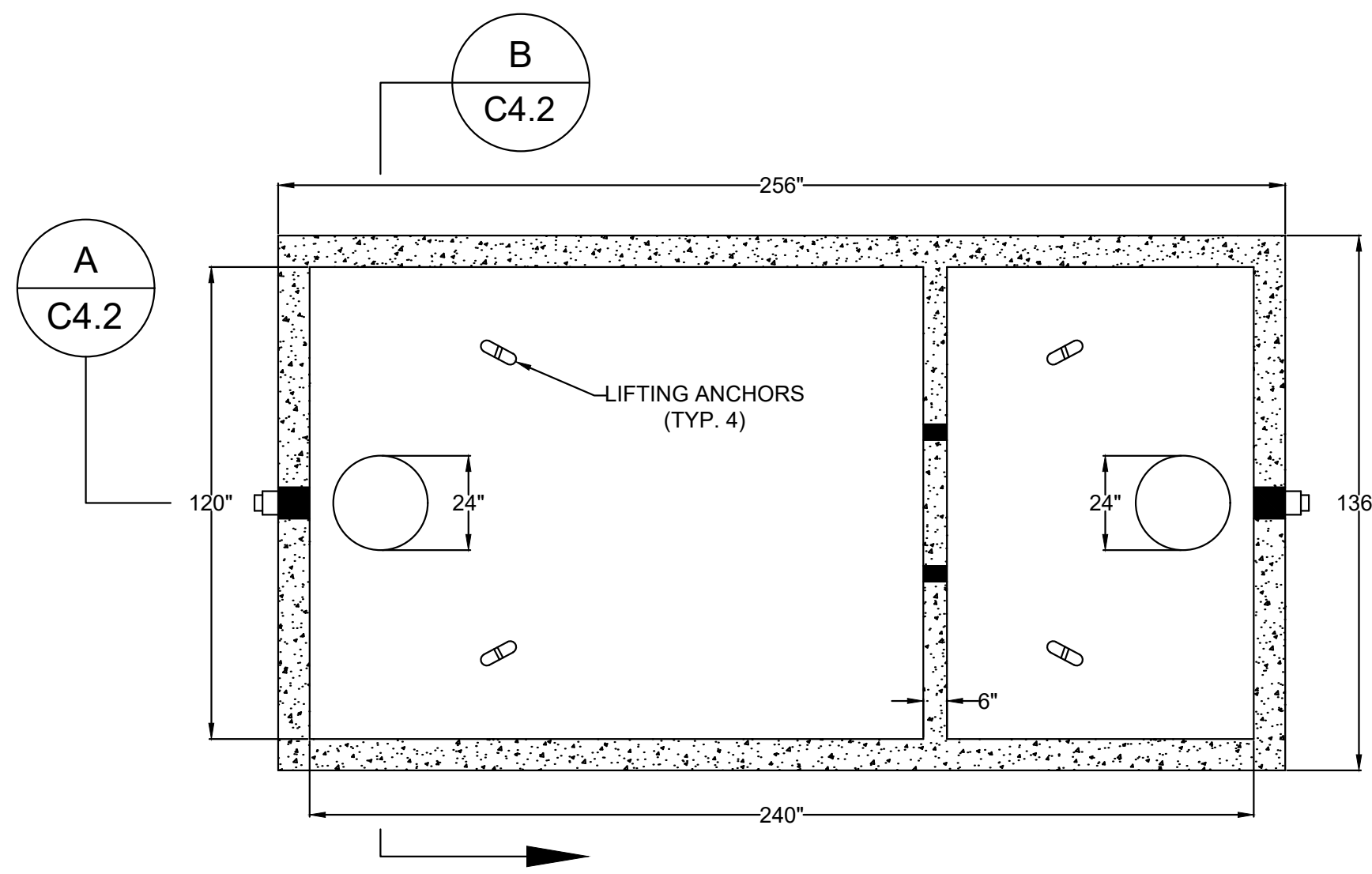
KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COB

MECHANICAL PLAN

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

SHEET NUMBER
C4.1

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: C4.2 SEPTIC TANK DETAILS, October 02, 2023, 02:42:04pm K:\RAL_LDEV\013031004_Rolesville_Leaning_Center\PI0_CAD_Plan\Sheets\C4.2 SEPTIC TANK DETAILS.dwg
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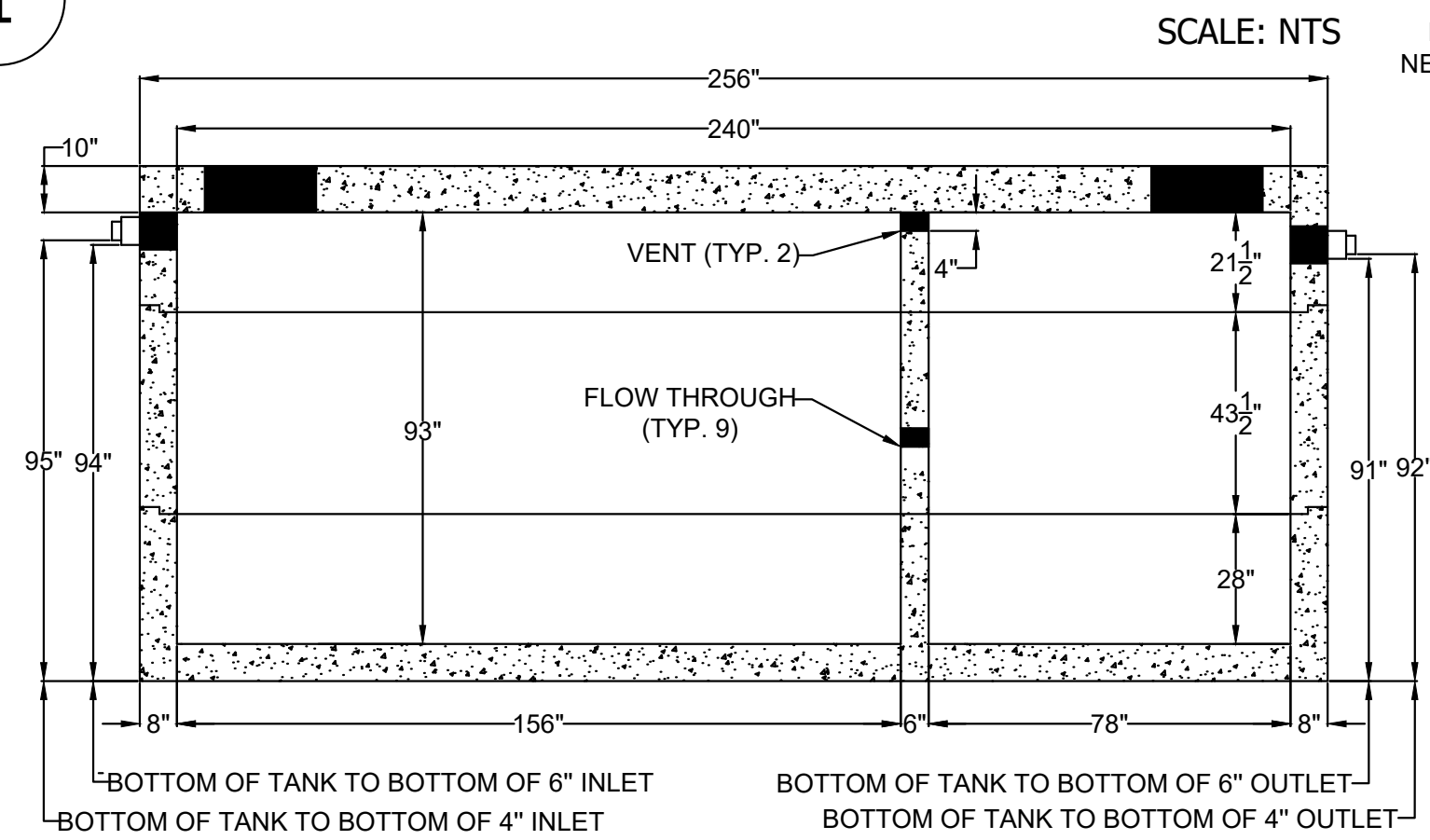


1 STRUCTURAL PLAN VIEW

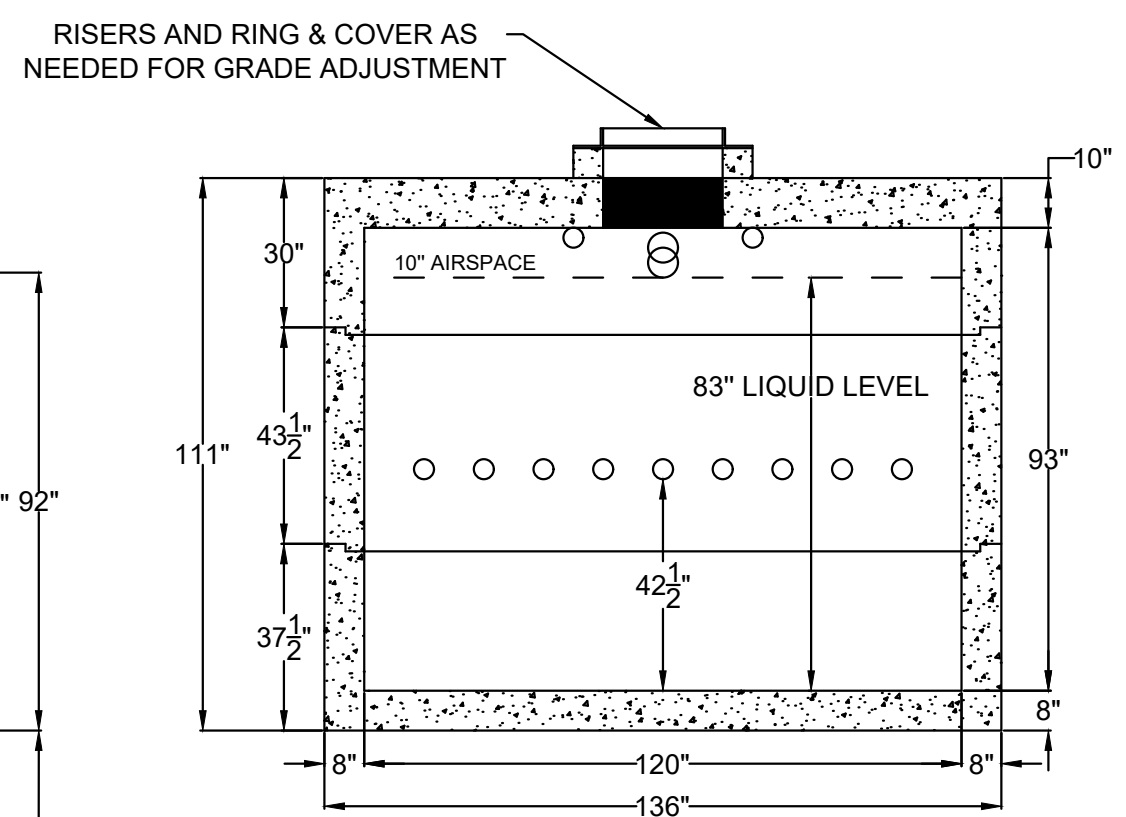
**SHOAF - 10,000 GAL. SEPTIC TANK
HS/20 TRAFFIC RATED**

SHOAF PRECAST INC.
4130 W US HWY 64
LEXINGTON, NC 27295
PHONE (336) 787-5826
FAX (336) 787-2826
info@shoafprecast.com
www.shoafprecast.com

- GAL. PER INCH - 121.56
- 2 TO 1 LENGTH TO WIDTH RATIO
- PIPE PENETRATION SEALS MEET ASTM C-923
- 1 1/4" BUTYL RUBBER SEALANT CONTINUOUS IN JOINTS
- REINFORCED PER ENGINEER SPECS
- CONCRETE - 5,000 PSI MIN.
- TANK WEIGHT - 106,000 #
- TOP - 40,000 #
- BOTTOM - 40,000 #
- RISER SECTION - 26,000 #



A STRUCTURAL SECTION VIEW
SCALE: NTS



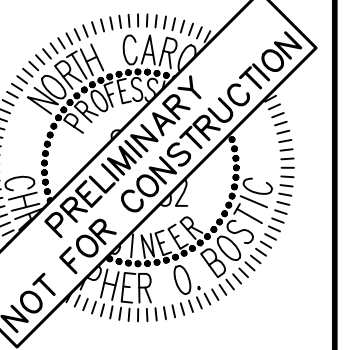
B STRUCTURAL SECTION VIEW
SCALE: NTS

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No.	REVISIONS	DATE	BY

Kimley»Horn
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WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050
421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601



KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COE

**SEPTIC TANK
DETAILS**

**THE LEARNING
CENTER ROLESVILLE**
PREPARED FOR
ROLESVILLE, LLC.
TOWN OF ROLESVILLE
NORTH CAROLINA

SHEET NUMBER
C4.2

SELF MONITORING AND INSPECTION NOTIFICATION

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2008 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS BECAME EFFECTIVE OCTOBER 1, 2010. TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, A COMBINED FORM IS NOW AVAILABLE. THE NEW FORM WAS DEVELOPED TO SATISFY THE REQUIREMENTS OF THE SEDIMENTATION POLLUTION CONTROL ACT AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES, NC010000, BEGINNING AUGUST 1, 2013. THE DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES IS RESPONSIBLE FOR ADMINISTERING BOTH THE SPCA AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. NC010000. THE COMBINED FORM SHOULD MAKE IT EASIER TO COMPLY WITH SELF-INSPECTION REQUIREMENTS. THE COMBINED SELF-MONITORING FORM IS AVAILABLE AS A PDF AND WORD DOCUMENT FROM THE LAND QUALITY WEB SITE, [HTTP://PORTAL.NC DENR.ORG/WEB/EROSION](http://portal.ncdenr.org/web/erosion). IF YOU HAVE QUESTIONS, PLEASE CONTACT THE LAND QUALITY SECTION AT NCDEQ REGIONAL OFFICE.

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE. THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN, EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

- CONSTRUCTION ENTRANCE:**
INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
- SILT FENCE:**
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- SILT FENCE GRAVEL OUTLET:**
INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
- BLOCK AND GRAVEL INLET PROTECTION:**
INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

NPDES GROUND COVER REQUIREMENTS

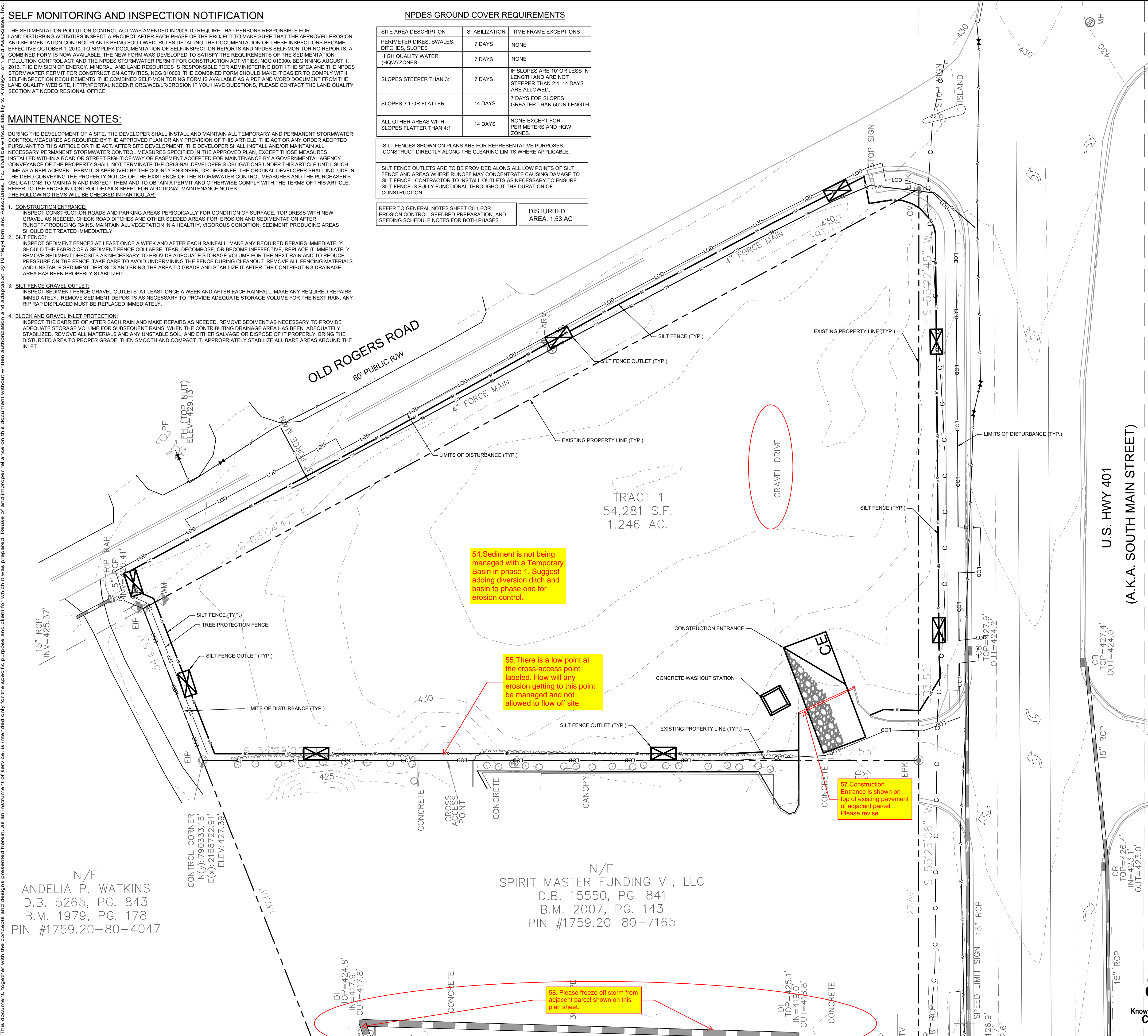
SITE AREA DESCRIPTION	STABILIZATION	TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE EXCEPT FOR PERIMETERS AND HQW ZONES.

SILT FENCES SHOWN ON PLANS ARE FOR REPRESENTATIVE PURPOSES, CONSTRUCT DIRECTLY ALONG THE CLEARING LIMITS WHERE APPLICABLE.

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

REFER TO GENERAL NOTES SHEET CO.1 FOR EROSION CONTROL, SEEDBED PREPARATION, AND SEEDING SCHEDULE NOTES FOR BOTH PHASES.

DISTURBED AREA: 1.53 AC



EROSION CONTROL LEGEND

- PROPERTY LINE
- - - TCE TEMPORARY CONSTRUCTION EASEMENT
- CL CLEARING LIMITS
- - - SF SILT FENCE
- - - TPF TREE PROTECTION FENCE
- - - SF/TPF COMBINATION TREE PROTECTION/SILT FENCE
- TD TEMPORARY DIVERSION DITCH
- TD(CW) CLEAN WATER DIVERSION DITCH
- X SEDIMENT BASIN POROUS Baffles
- PUMP DISCHARGE HOSE
- - - 805 EXISTING CONTOUR
- - - 805 PROPOSED CONTOUR
- - - DRAINAGE AREA BOUNDARY
- CE CONSTRUCTION ENTRANCE
- SO SILT FENCE OUTLET
- CS CONCRETE WASHOUT STATION
- CD ROCK CHECK DAM
- IP INLET PROTECTION
- RI ROCK PIPE INLET PROTECTION
- SK SKIMMER
- TD TEMPORARY SLOPE DRAIN
- RP RIP-RAP OUTLET PROTECTION
- SB SILT BAG
- DA DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TE TEMPORARY EROSION CONTROL MATTING

- PHASE 1 CONSTRUCTION SEQUENCE:**
- THE FOLLOWING PHASE 1 CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
 - SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH WAKE COUNTY ENVIRONMENTAL CONSULTANT TO DISCUSS EROSION CONTROL MEASURES.
 - OBTAIN LAND-DISTURBING PERMIT FROM WAKE COUNTY.
 - INSTALL TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, INLET PROTECTION, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES (SEE LOD FOR INITIAL CLEARING LIMITS). SEED, MAT, MULCH, AND ANCHOR DIVERSION DITCHES AND BASIN IMMEDIATELY AFTER CONSTRUCTION AS APPROPRIATE.
 - CALL FOR ON-SITE INSPECTION BY WAKE COUNTY ENVIRONMENTAL CONSULTANT ONCE ALL EROSION CONTROL MEASURES ARE INSTALLED. OBTAIN CERTIFICATE OF COMPLIANCE FROM WAKE COUNTY.
 - ONCE CERTIFICATE OF COMPLIANCE HAS BEEN OBTAINED, APPLY FOR NCDEQ #NOI ON NCDEQ WEBSITE.
 - UPON APPROVAL, CLEARING AND DEMOLITION MAY BEGIN. MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY. EROSION CONTROL MEASURES SHALL BE RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 50% OF DESIGN DEPTH.
 - INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY SEVEN (7) CALENDAR DAYS.
 - FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING EACH PHASE OF EROSION CONTROL MEASURES. SEED AND MULCH DENUDED AREA WITHIN 15 CALENDAR DAYS AFTER ANY PHASE OF GRADING. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NC DENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND TOWN OF CARY EROSION CONTROL ORDINANCE.
 - REFER TO SHEET CO.1 - GENERAL NOTES FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE.

SURVEY NOTE:
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D.B. 15550, PG. 841
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Kimley»Horn
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421 FAYETTEVILLE STREET, SUITE 800, RALEIGH, NC 27601
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050

THE LEARNING CENTER ROLESVILLE
PREPARED FOR
ROLESVILLE, LLC.
TOWN OF ROLESVILLE NORTH CAROLINA

EROSION CONTROL PHASE 1

SHEET NUMBER **C5.0**

DATE: _____ BY: _____

REVISIONS:

No.	Description	Date	By
1			
2			
3			
4			
5			
6			
7			

KHA PROJECT: 013031004
DATE: 09/29/2023
SCALE: AS SHOWN
DESIGNED BY: JAA
DRAWN BY: JAA
CHECKED BY: COB

59. Not shown in Phase 1 revise sequence.

59. All clearing is shown in Phase 2 and will need to be done then when the basin is installed. No erosion control basin is shown on this phase. Please revise the construction sequence to match plans.

SELF MONITORING AND INSPECTION NOTIFICATION

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- CONSTRUCTION ENTRANCE:**
INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
- SILT FENCE:**
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- SILT FENCE GRAVEL OUTLET:**
INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
- BLOCK AND GRAVEL INLET PROTECTION:**
INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

NPDES GROUND COVER REQUIREMENTS

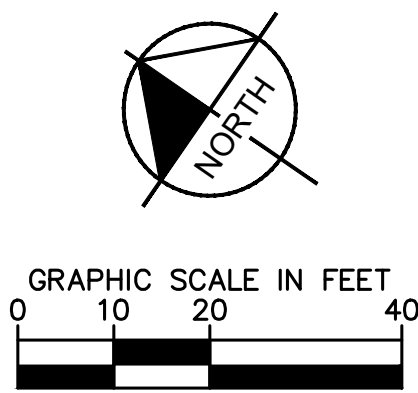
SITE AREA DESCRIPTION	STABILIZATION	TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE EXCEPT FOR PERIMETERS AND HQW ZONES.

SILT FENCES SHOWN ON PLANS ARE FOR REPRESENTATIVE PURPOSES. CONSTRUCT DIRECTLY ALONG THE CLEARING LIMITS WHERE APPLICABLE.

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

REFER TO GENERAL NOTES SHEET C0.1 FOR EROSION CONTROL, SEEDBED PREPARATION, AND SEEDING SCHEDULE NOTES FOR BOTH PHASES.

DISTURBED AREA: 1.53 AC



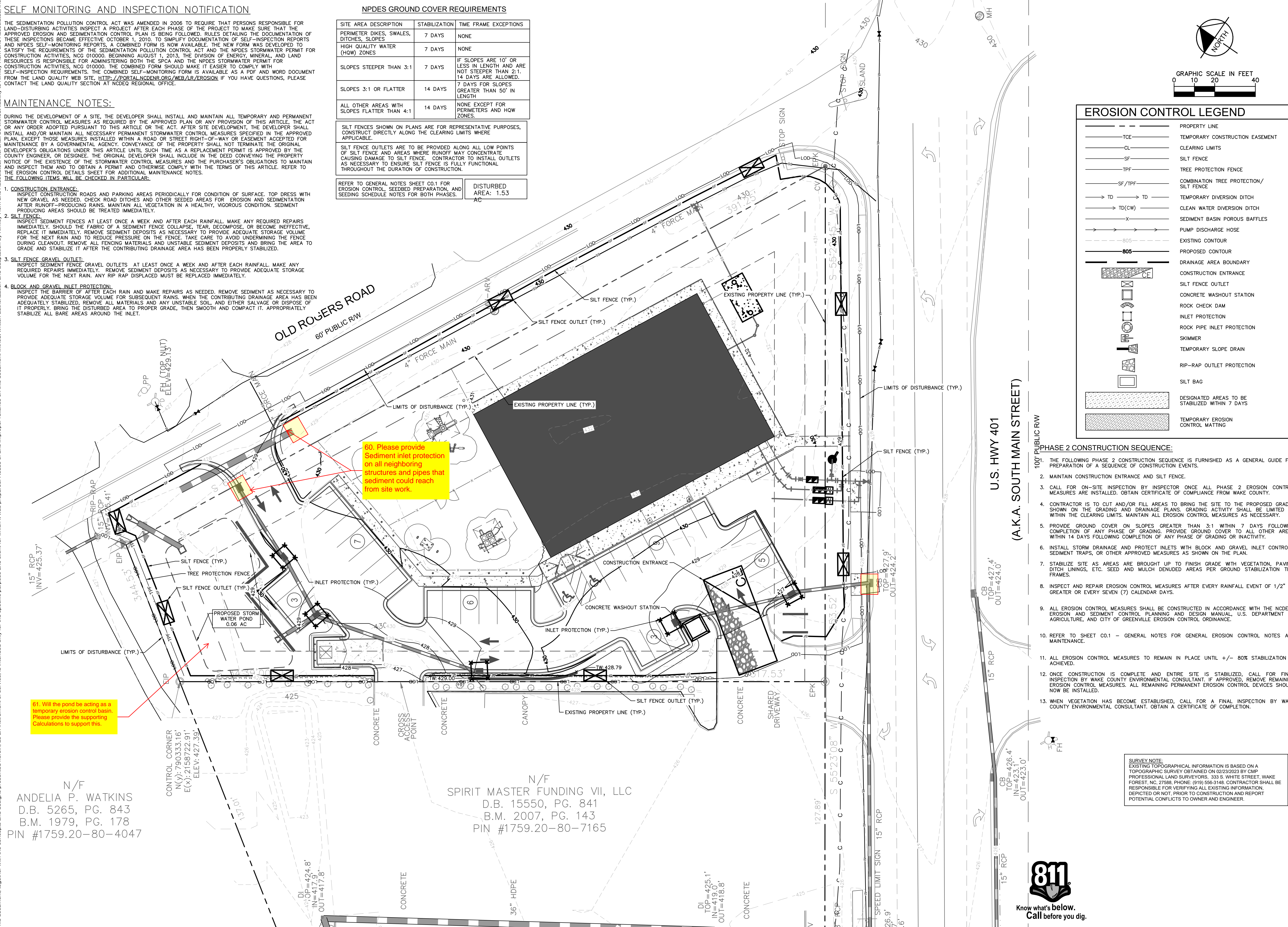
EROSION CONTROL LEGEND

- PROPERTY LINE
- - - - TCE - - - - TEMPORARY CONSTRUCTION EASEMENT
- CL --- CLEARING LIMITS
- - - - SF - - - - SILT FENCE
- - - - TPF - - - - TREE PROTECTION FENCE
- - - - SF/TPF - - - - COMBINATION TREE PROTECTION/SILT FENCE
- TD → TD - - - - TEMPORARY DIVERSION DITCH
- TD(CW) → TD(CW) - - - - CLEAN WATER DIVERSION DITCH
- - - - X - - - - SEDIMENT BASIN POROUS Baffles
- - - - 805 - - - - EXISTING CONTOUR
- - - - 805 - - - - PROPOSED CONTOUR
- - - - DRAINAGE AREA BOUNDARY
- CE - - - - CONSTRUCTION ENTRANCE
- - - - - SILT FENCE OUTLET
- - - - - CONCRETE WASHOUT STATION
- - - - - ROCK CHECK DAM
- - - - - INLET PROTECTION
- - - - - ROCK PIPE INLET PROTECTION
- - - - - SKIMMER
- - - - - TEMPORARY SLOPE DRAIN
- - - - - RIP-RAP OUTLET PROTECTION
- - - - - SILT BAG
- - - - - DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- - - - - TEMPORARY EROSION CONTROL MATTING

- PHASE 2 CONSTRUCTION SEQUENCE:**
- THE FOLLOWING PHASE 2 CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
 - MAINTAIN CONSTRUCTION ENTRANCE AND SILT FENCE.
 - CALL FOR ON-SITE INSPECTION BY INSPECTOR ONCE ALL PHASE 2 EROSION CONTROL MEASURES ARE INSTALLED. OBTAIN CERTIFICATE OF COMPLIANCE FROM WAKE COUNTY.
 - CONTRACTOR IS TO CUT AND/OR FILL AREAS TO BRING THE SITE TO THE PROPOSED GRADES SHOWN ON THE GRADING AND DRAINAGE PLANS. GRADING ACTIVITY SHALL BE LIMITED TO WITHIN THE CLEARING LIMITS. MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY.
 - PROVIDE GROUND COVER ON SLOPES GREATER THAN 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. PROVIDE GROUND COVER TO ALL OTHER AREAS WITHIN 14 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY.
 - INSTALL STORM DRAINAGE AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN.
 - STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDEED AREAS PER GROUND STABILIZATION TIME FRAMES.
 - INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY SEVEN (7) CALENDAR DAYS.
 - ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NC DENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND CITY OF GREENVILLE EROSION CONTROL ORDINANCE.
 - REFER TO SHEET C0.1 - GENERAL NOTES FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE.
 - ALL EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL +/- 80% STABILIZATION IS ACHIEVED.
 - ONCE CONSTRUCTION IS COMPLETE AND ENTIRE SITE IS STABILIZED, CALL FOR FINAL INSPECTION BY WAKE COUNTY ENVIRONMENTAL CONSULTANT. IF APPROVED, REMOVE REMAINING EROSION CONTROL MEASURES. ALL REMAINING PERMANENT EROSION CONTROL DEVICES SHOULD NOW BE INSTALLED.
 - WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL INSPECTION BY WAKE COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, NC 27888. PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

PLOTTED BY: Alexander, Jamal Sheet: THE LEARNING CENTER ROLESVILLE, Layout: C5.1 EROSION CONTROL PLAN - PHASE 2, October 02, 2023, 02:42:31pm, K:\RAL...LDE\013031004...Rolesville...Learning...Center\P10_CAD\Files\PlanSheets\C502 EROSION CONTROL PLAN.dwg
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60. Please provide Sediment inlet protection on all neighboring structures and pipes that sediment could reach from site work.

61. Will the pond be acting as a temporary erosion control basin. Please provide the supporting Calculations to support this.

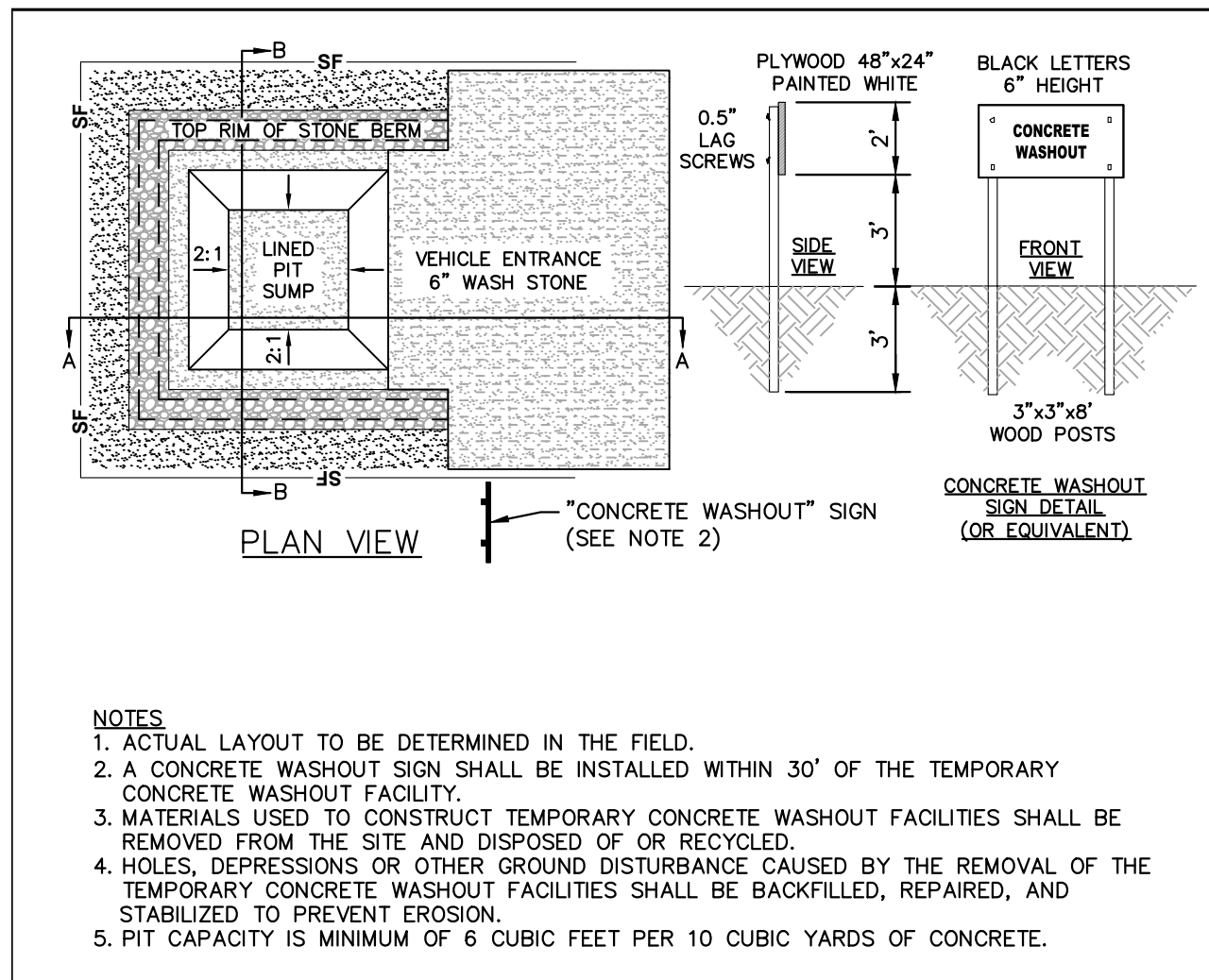
N/F
ANDELIA P. WATKINS
D.B. 5265, PG. 843
B.M. 1979, PG. 178
PIN #1759.20-80-4047

N/F
SPIRIT MASTER FUNDING VII, LLC
D.B. 15550, PG. 841
B.M. 2007, PG. 143
PIN #1759.20-80-7165

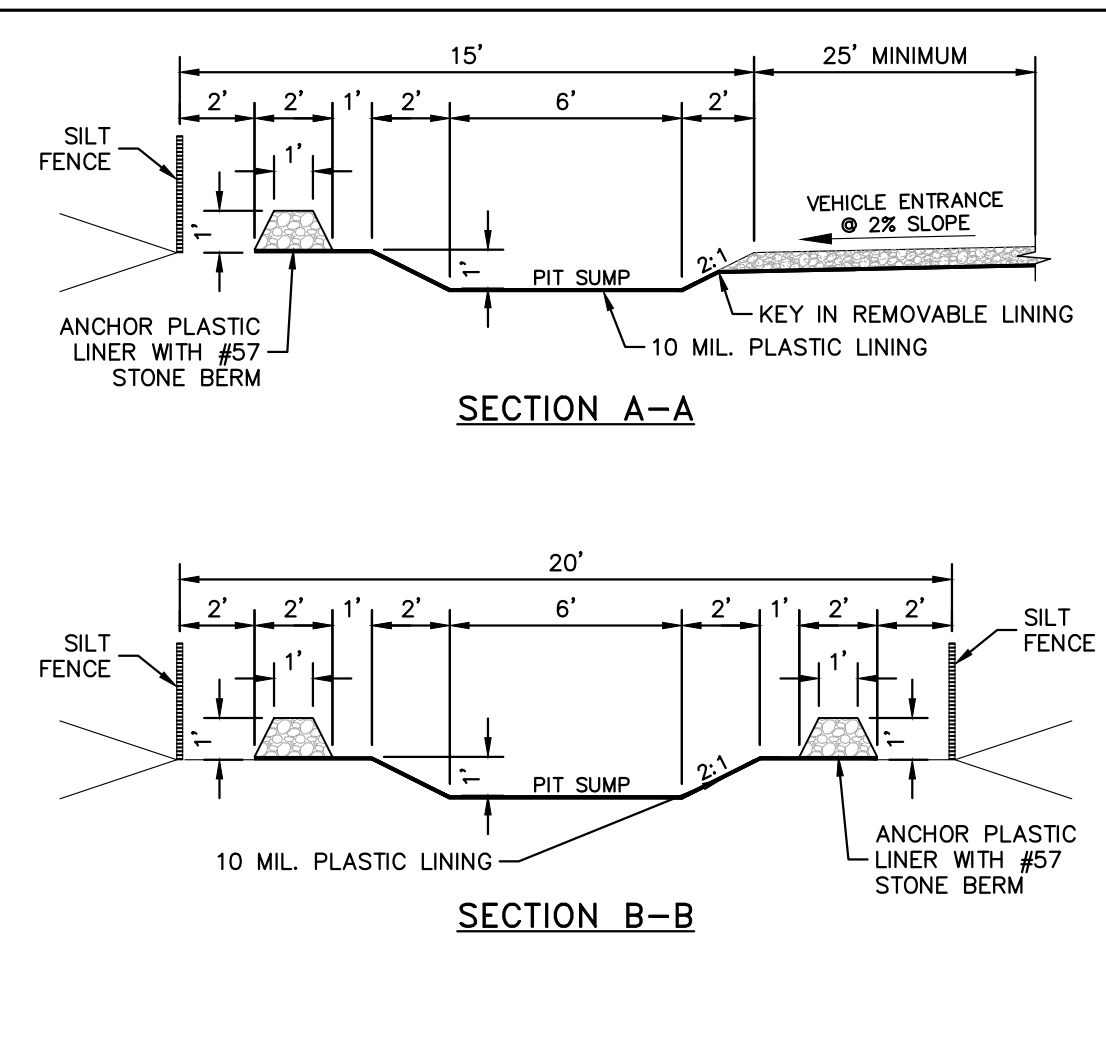


<p>© 2023 KIMLEY-HORN AND ASSOCIATES, INC. #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919-677-2000 FAX: 919-677-2050 421 FAYETTEVILLE STREET, SUITE 800, RALEIGH, NC 27601</p>	
KHA PROJECT 013031004	DATE 09/29/2023
SCALE AS SHOWN	DESIGNED BY JAA
DRAWN BY JAA	CHECKED BY COB
THE LEARNING CENTER ROLESVILLE PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA	
SHEET NUMBER C5.1	

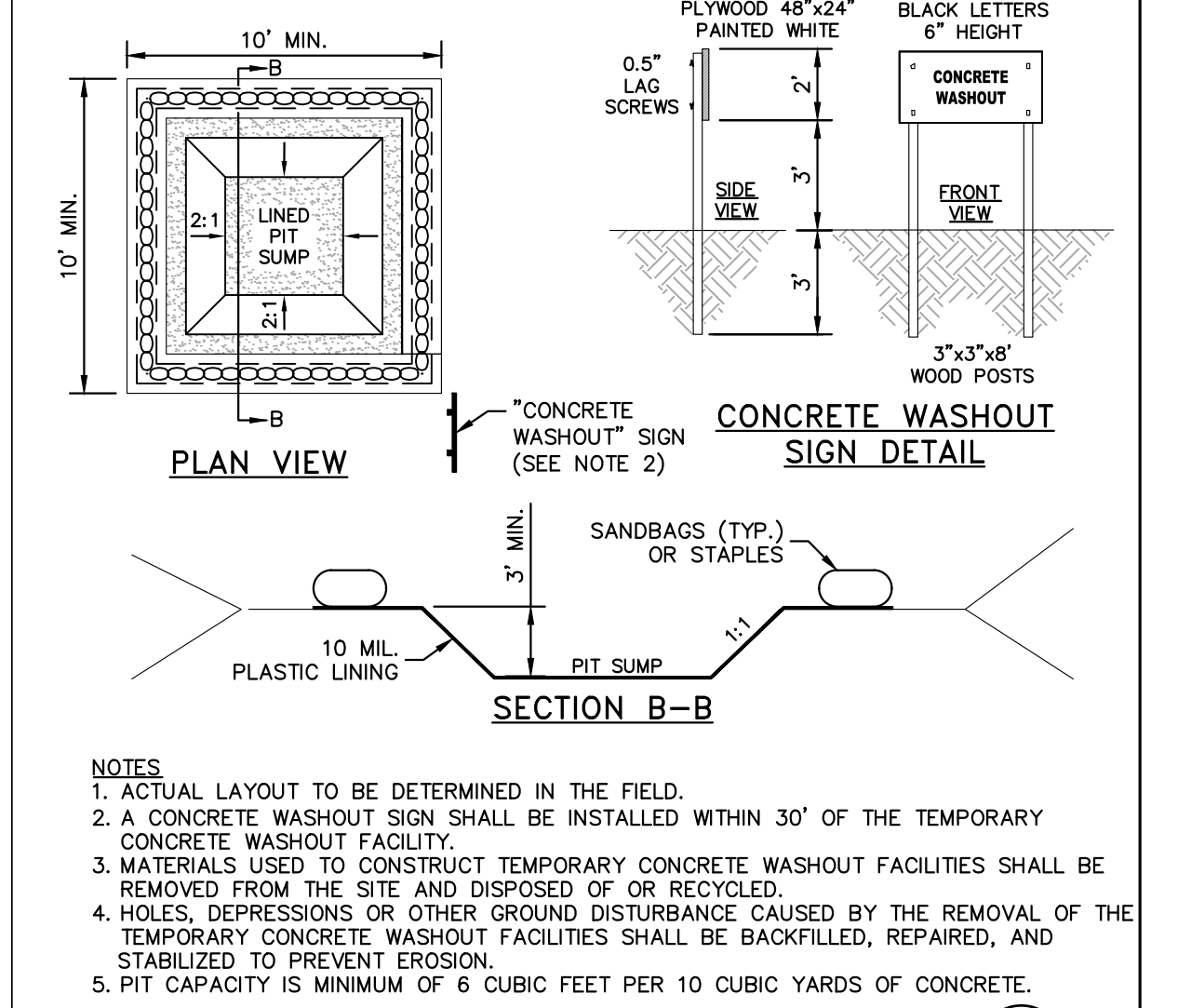
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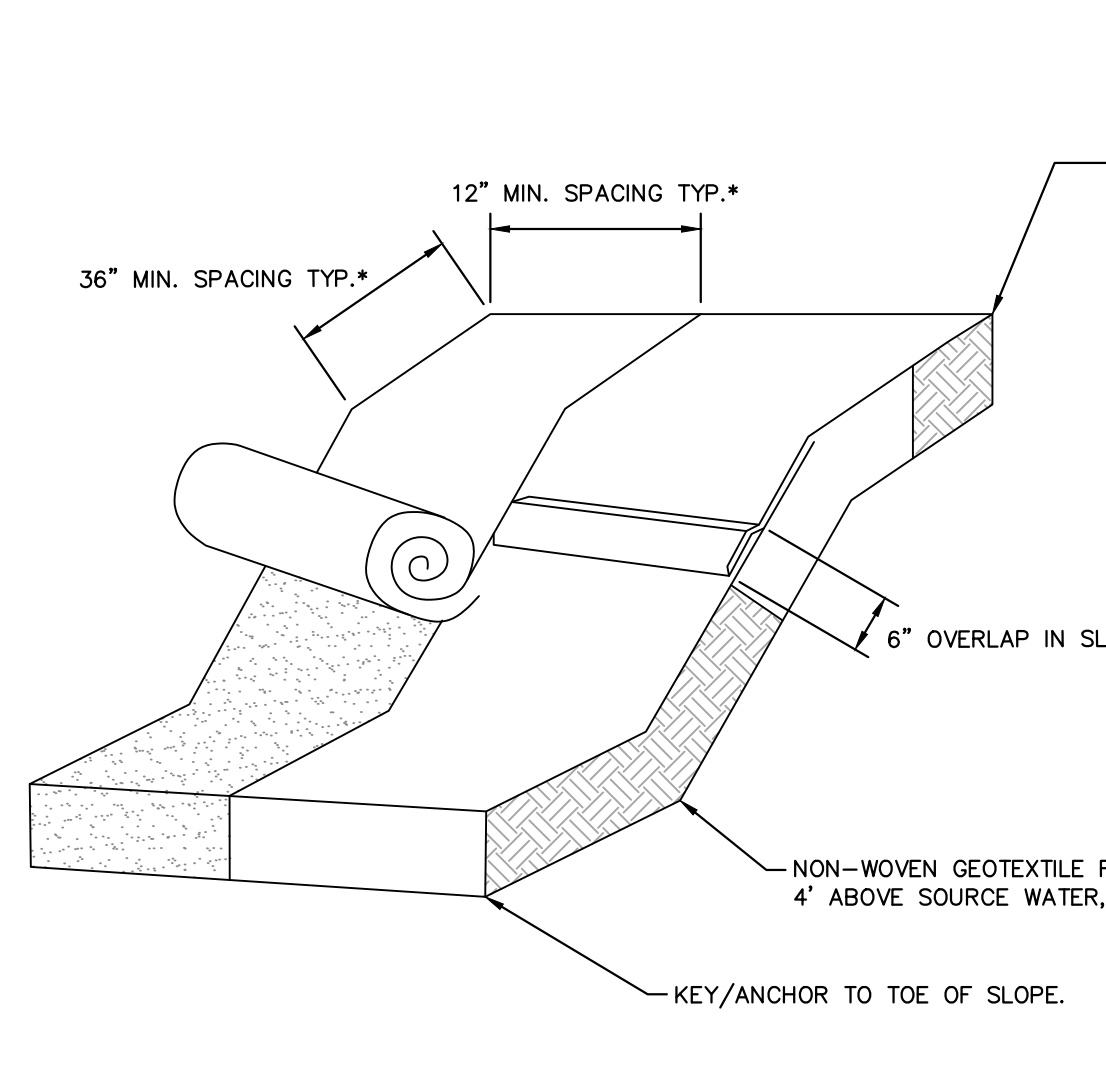
CONCRETE WASHOUT STATION
N.T.S. KHA DETAIL NO: 01.102.R01 XX



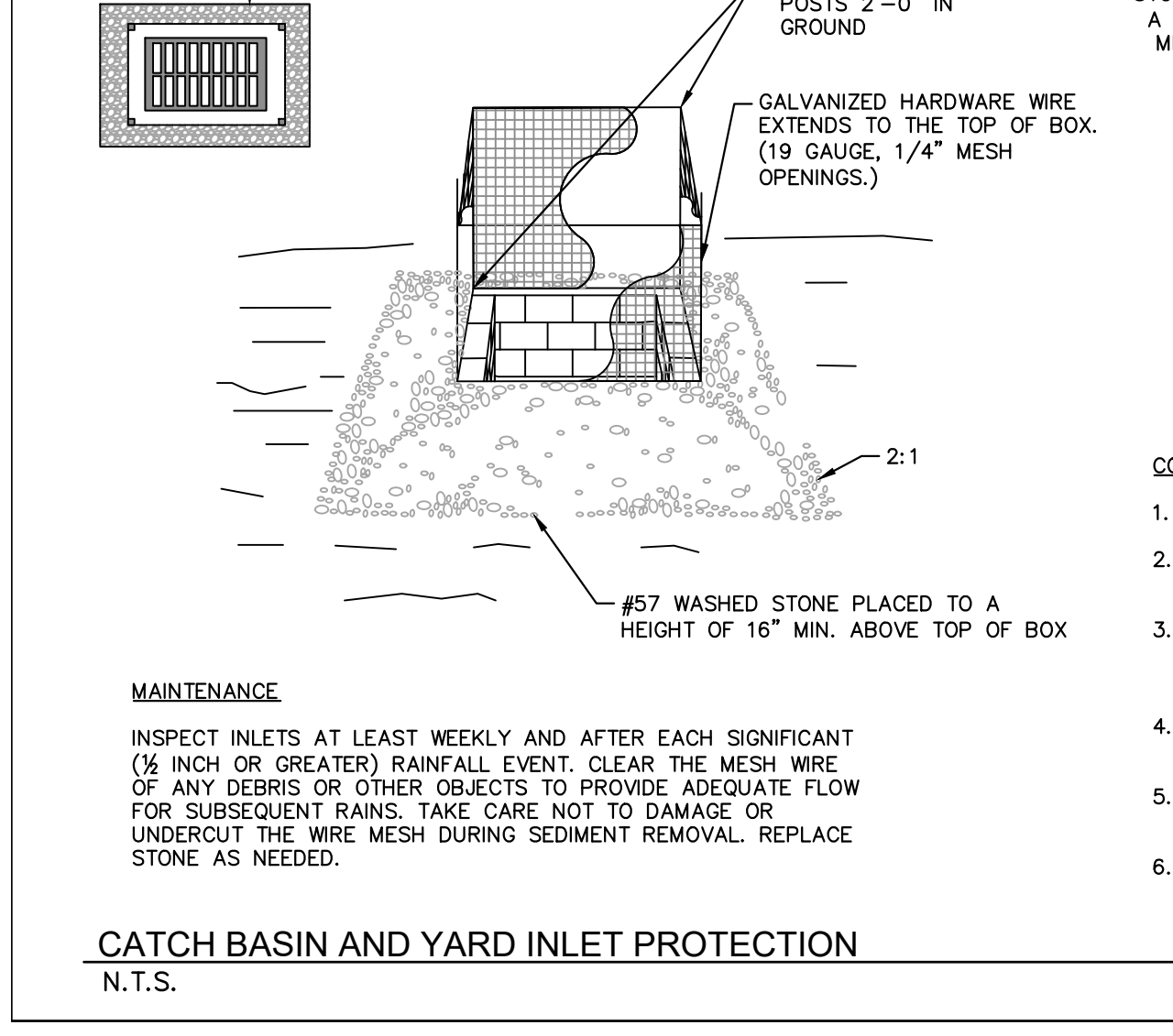
TEMPORARY SEEDING SCHEDULE AND SEEDBED PREPARATION
N.T.S. KHA DETAIL NO: 01.104.R01 XX



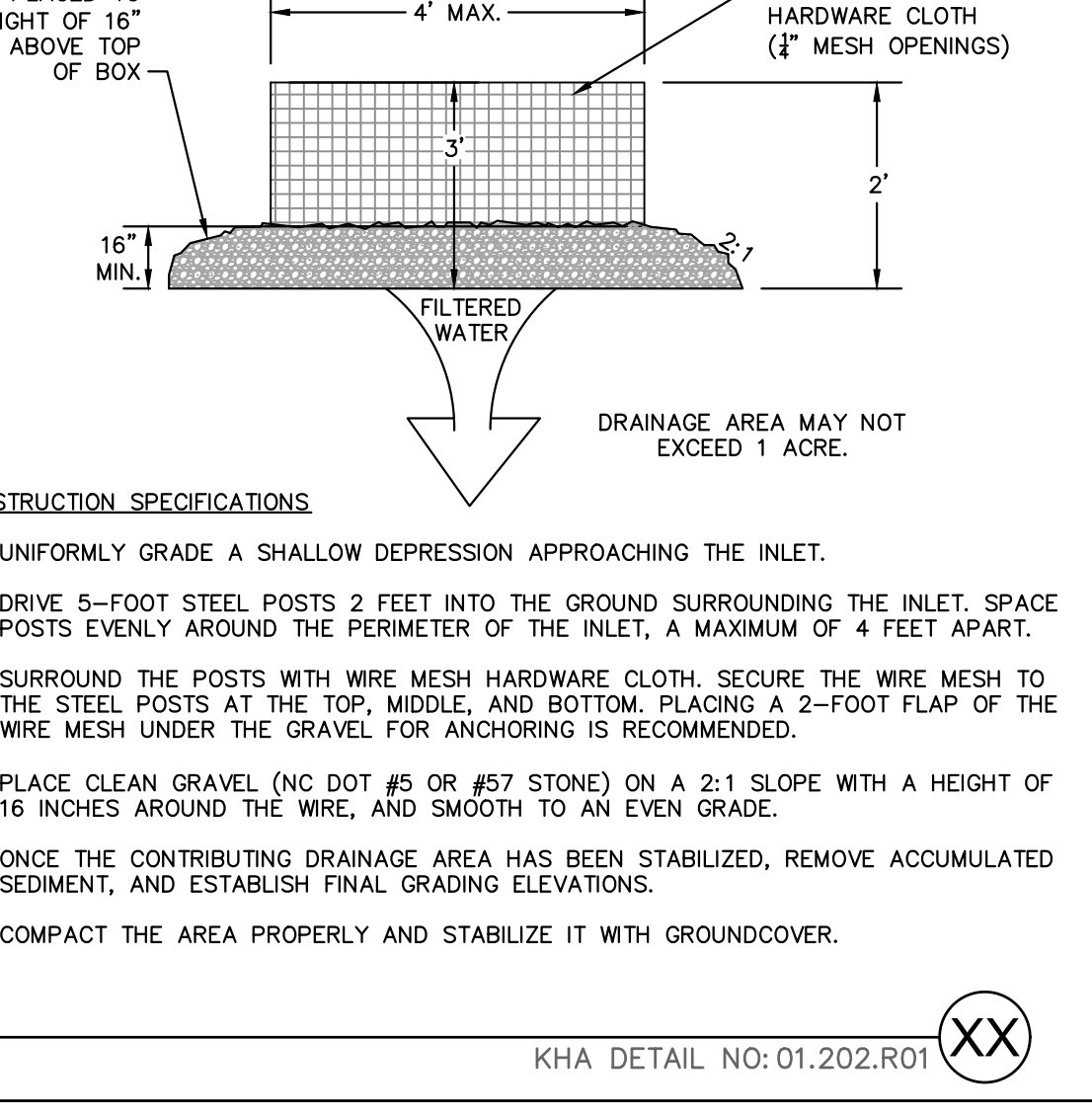
CONCRETE WASHOUT STATION
N.T.S. KHA DETAIL NO: 01.102.R01 05



TEMPORARY MATTING
N.T.S. KHA DETAIL NO: 01.105.R01 XX



CATCH BASIN AND YARD INLET PROTECTION
N.T.S. KHA DETAIL NO: 01.202.R01 XX



CATCH BASIN SILT PROTECTION INSERT
N.T.S. KHA DETAIL NO: 01.203.R01 XX

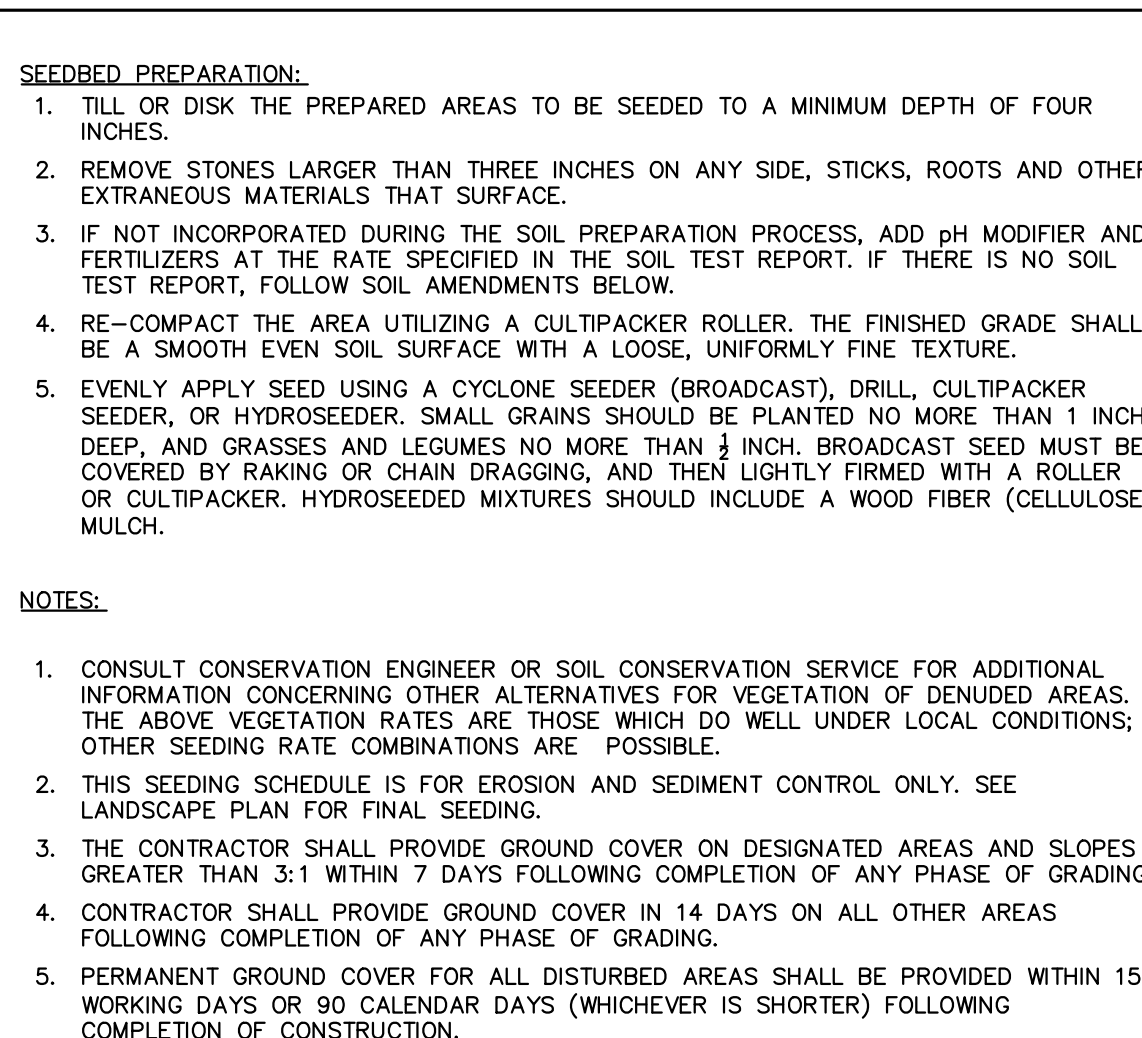
SEEDBED PREPARATION:

- TILL OR DISK THE PREPARED AREAS TO BE SEED TO A MINIMUM DEPTH OF FOUR INCHES.
- REMOVE STONES LARGER THAN THREE INCHES ON ANY SIDE, STICKS, ROOTS AND OTHER EXTRANEEOUS MATERIALS THAT SURFACE.
- IF NOT INCORPORATED DURING THE SOIL PREPARATION PROCESS, ADD pH MODIFIER AND FERTILIZERS AT THE RATE SPECIFIED IN THE SOIL TEST REPORT. IF THERE IS NO SOIL TEST REPORT, FOLLOW SOIL AMENDMENTS BELOW.
- RE-COMPACT THE AREA UTILIZING A CULTIPACKER ROLLER. THE FINISHED GRADE SHALL BE A SMOOTH EVEN SOIL SURFACE WITH A LOOSE, UNIFORMLY FINE TEXTURE.
- EVENLY APPLY SEED USING A CYCLONE SEEDER (BROADCAST), DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. SMALL GRAINS SHOULD BE PLANTED NO MORE THAN 1 INCH DEEP, AND GRASSES AND LEGUMES NO MORE THAN 1/2 INCH. BROADCAST SEED MUST BE COVERED BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY FIRMED WITH A ROLLER OR CULTIPACKER. HYDROSEEDING MIXTURES SHOULD INCLUDE A WOOD FIBER (CELLULOSE) MULCH.

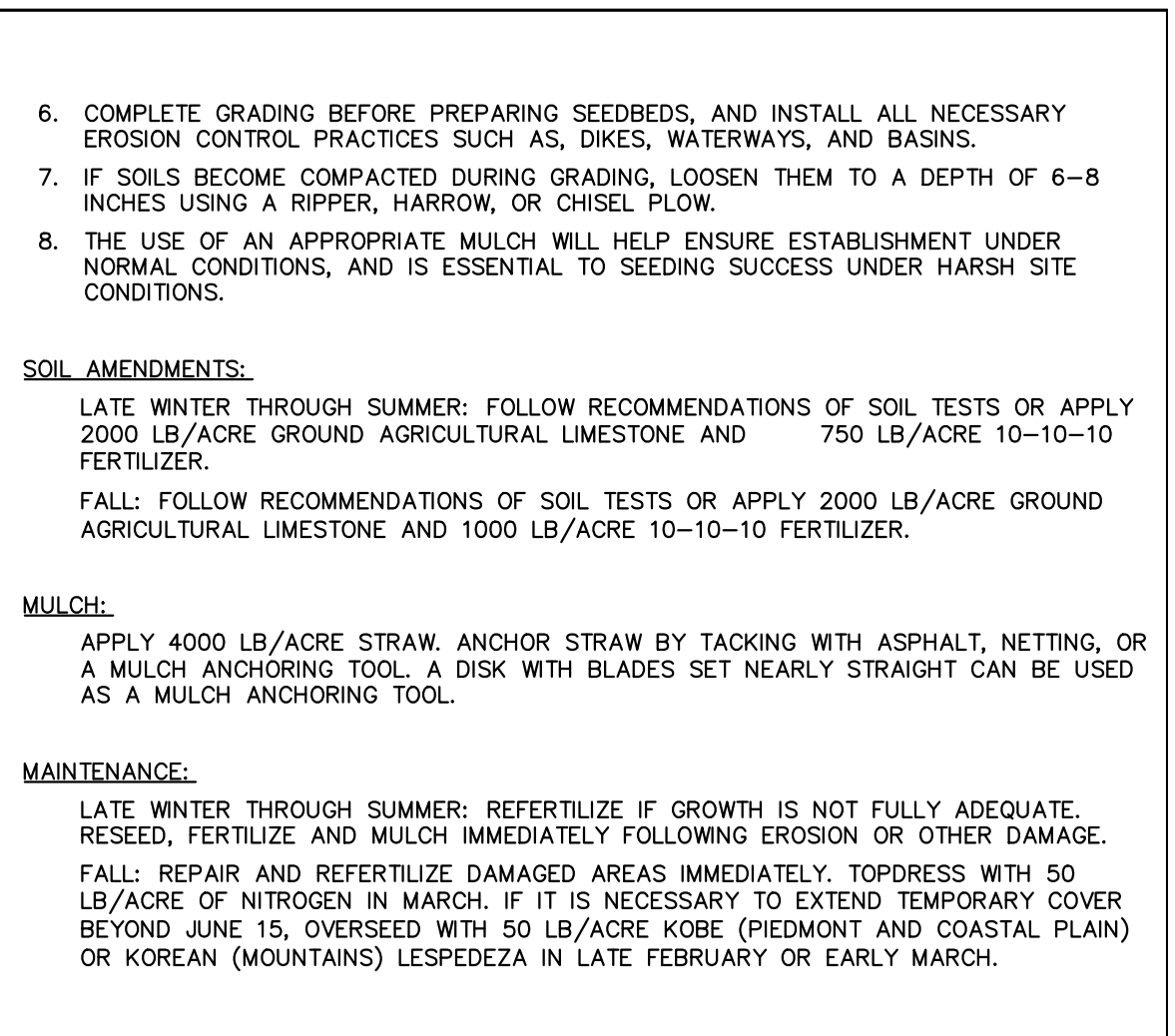
NOTES:

- CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.
- THIS SEEDING SCHEDULE IS FOR EROSION AND SEDIMENT CONTROL ONLY. SEE LANDSCAPE PLAN FOR FINAL SEEDING.
- THE CONTRACTOR SHALL PROVIDE GROUND COVER ON DESIGNATED AREAS AND SLOPES GREATER THAN 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- CONTRACTOR SHALL PROVIDE GROUND COVER IN 14 DAYS ON ALL OTHER AREAS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

TEMPORARY SEEDING SCHEDULE AND SEEDBED PREPARATION
N.T.S. KHA DETAIL NO: 01.104.R01 XX



CATCH BASIN INLET PROTECTION
N.T.S. KHA DETAIL NO: 01.201.R01 XX



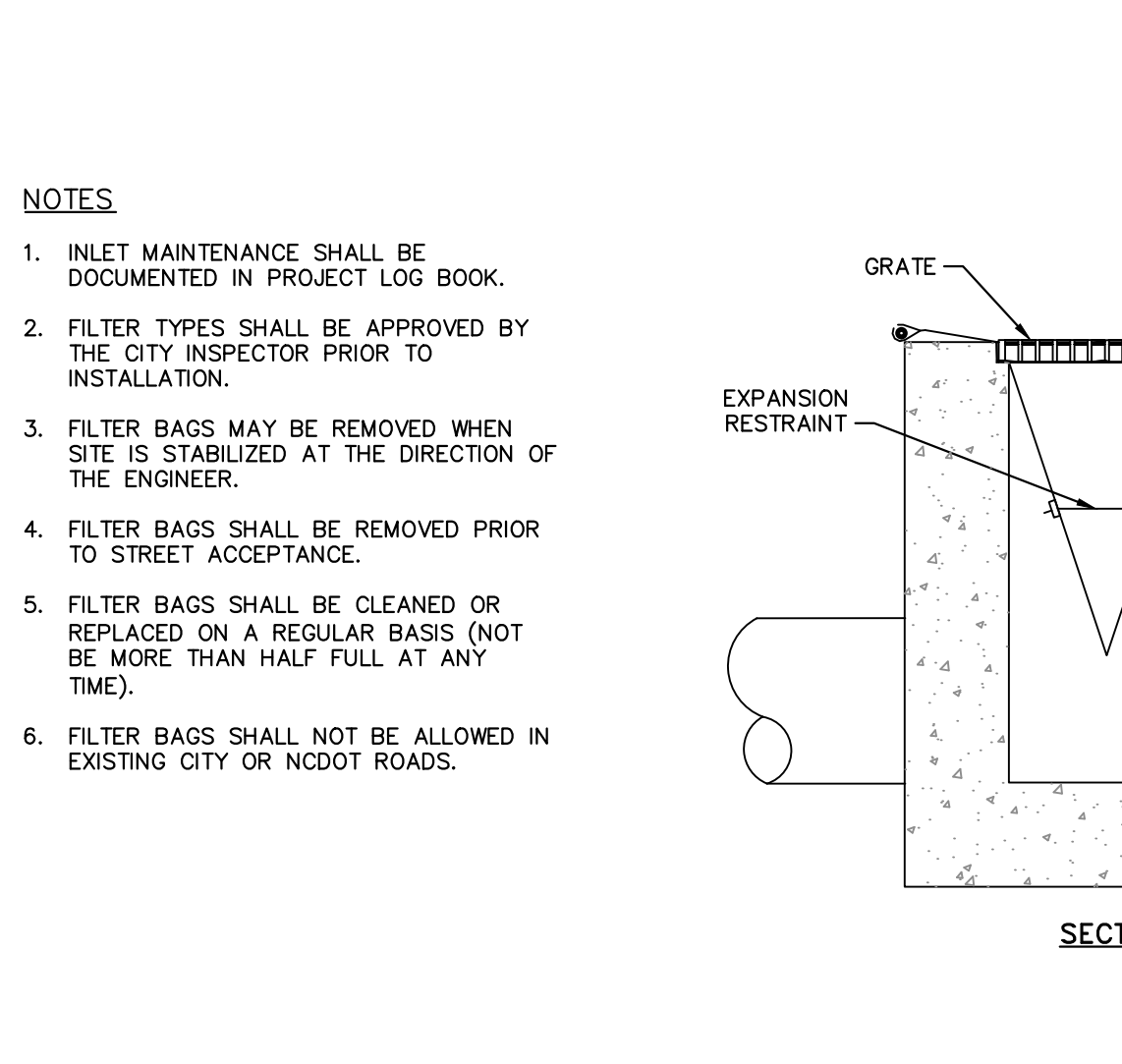
CATCH BASIN INLET PROTECTION
N.T.S. KHA DETAIL NO: 01.201.R01 XX

CAPACITY CHART

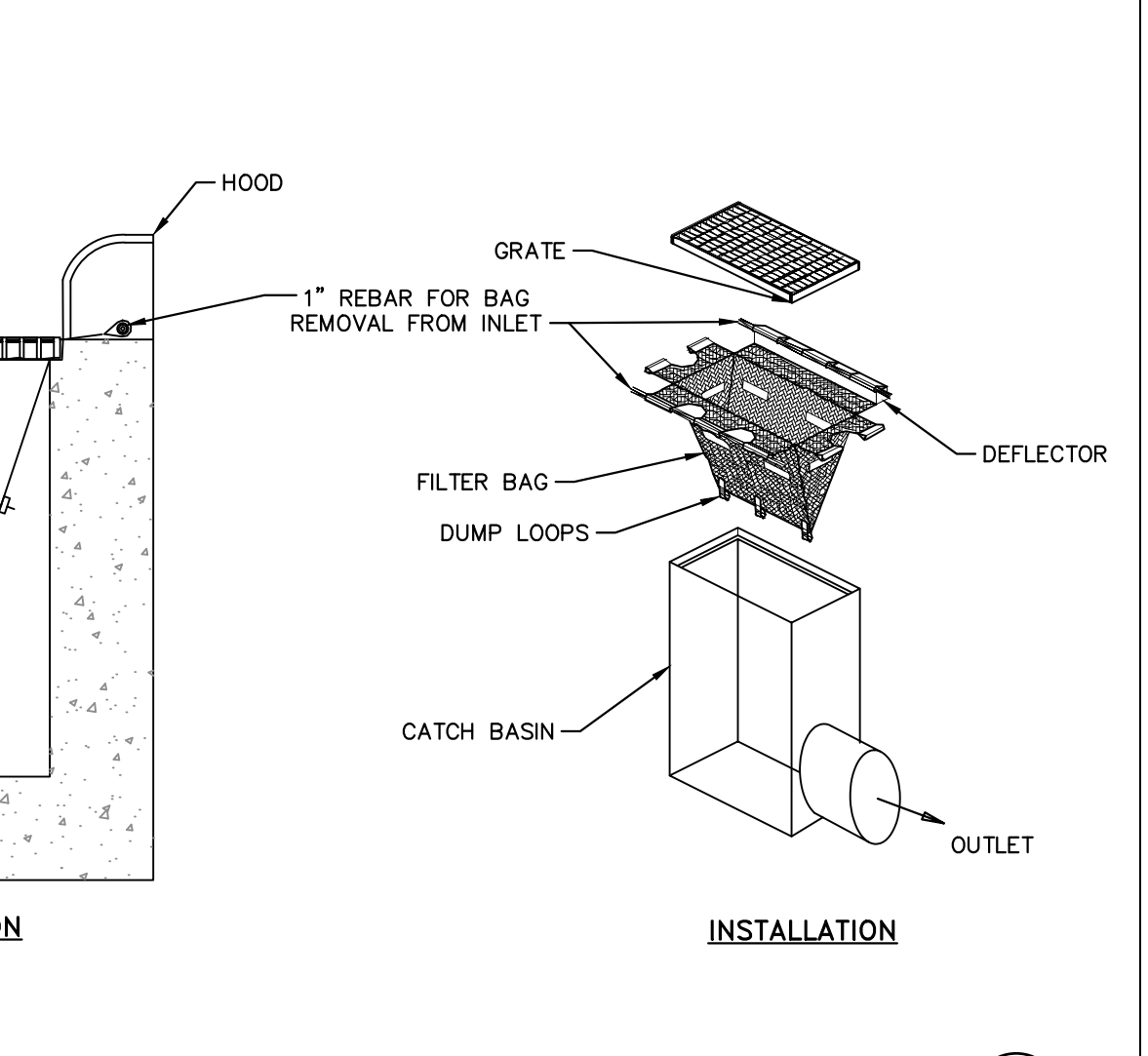
MODEL NO.	INLET SIZE	LINER DEPTH	STORAGE CAPACITY*	CLEAN FLOW RATE**
FF-2424HC	24" x 24"	12"	1.67 CU. FT.	470 GPM
"	24" x 24"	24"	4.18 CU. FT.	914 GPM
"	24" x 24"	36"	6.69 CU. FT.	1,357 GPM
FF-2436HC	24" x 36"	12"	2.55 CU. FT.	641 GPM
"	24" x 36"	24"	6.38 CU. FT.	1,201 GPM
"	24" x 36"	36"	10.20 CU. FT.	1,761 GPM
FF-3636HC-00	36" x 36"	12"	3.36 CU. FT.	772 GPM
"	36" x 36"	24"	8.39 CU. FT.	1,402 GPM
"	36" x 36"	36"	13.43 CU. FT.	2,032 GPM

* STORAGE CAPACITY REFLECTS MAXIMUM SOLIDS COLLECTION PRIOR TO IMPEDING BYPASS.
** FLOW RATES ARE "CALCULATED CLEAN FLOW RATES" BASED ON LINER MATERIAL FLOW RATE OF 70 GPM/SQ. FT. (RECOMMEND APPLYING FACTOR OF .25 TO .50 TO FLOW RATES TO ALLOW FOR SEDIMENT AND DEBRIS)

CATCH BASIN SILT PROTECTION INSERT
N.T.S. KHA DETAIL NO: 01.203.R01 XX



CATCH BASIN INLET PROTECTION
N.T.S. KHA DETAIL NO: 01.201.R01 XX



CATCH BASIN INLET PROTECTION
N.T.S. KHA DETAIL NO: 01.201.R01 XX

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
 ROLESVILLE, LLC.
 TOWN OF ROLESVILLE
 NORTH CAROLINA

EROSION CONTROL
 DETAILS

SHEET NUMBER
 C5.2

KHA PROJECT
 013031004

DATE
 09/29/2023

SCALE
 AS SHOWN

DESIGNED BY
 JAA

DRAWN BY
 JAA

CHECKED BY
 COB

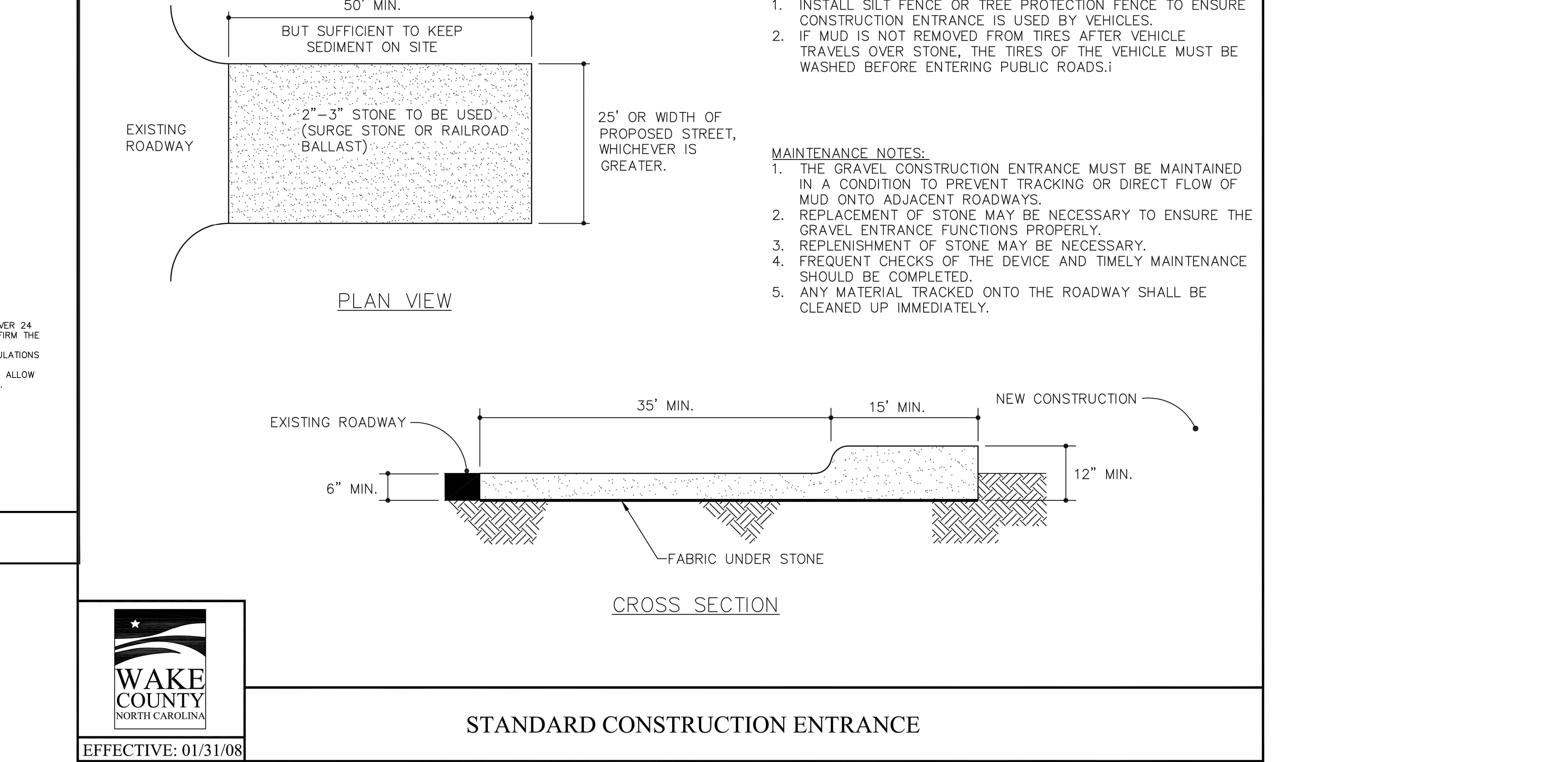
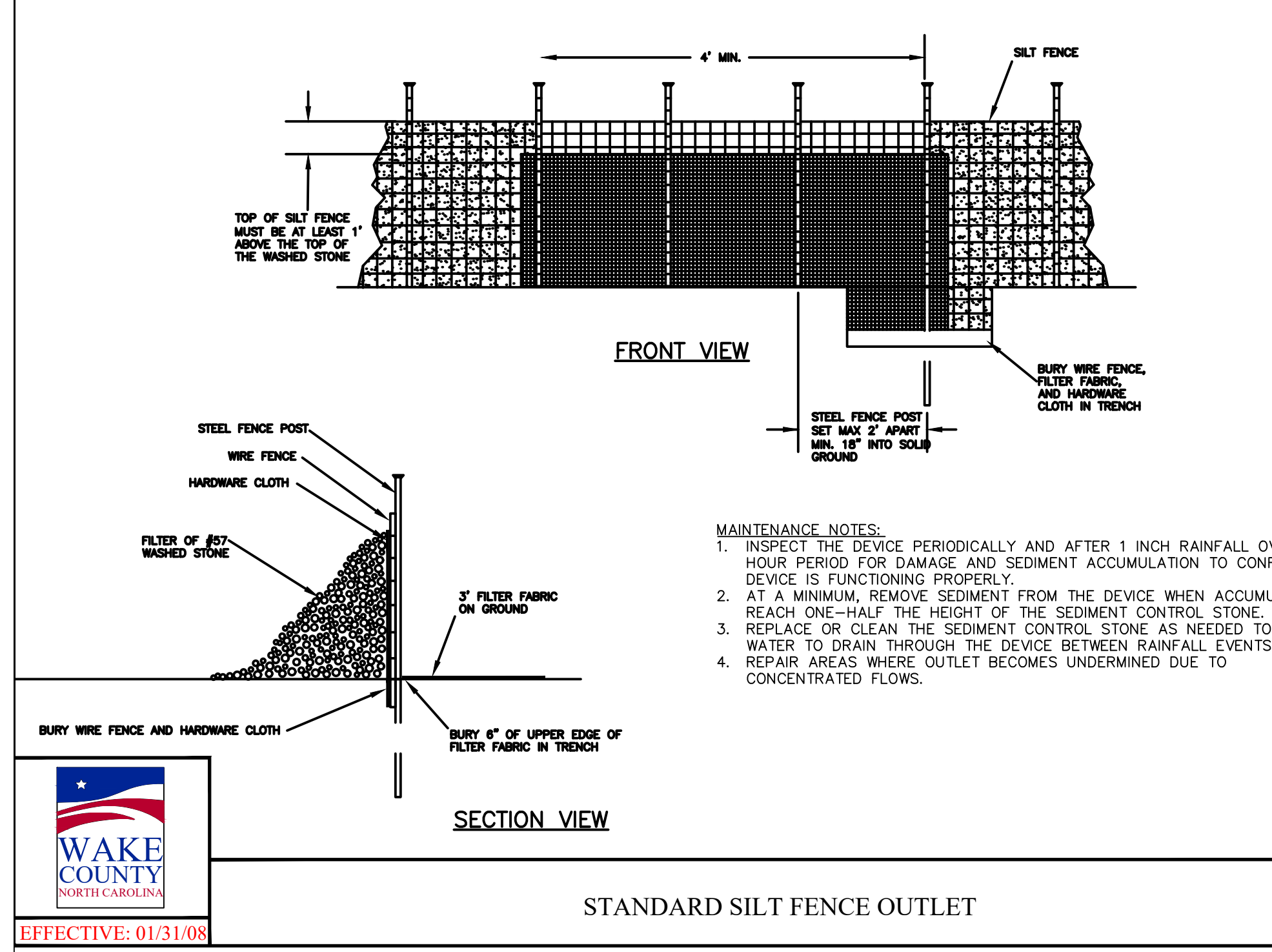
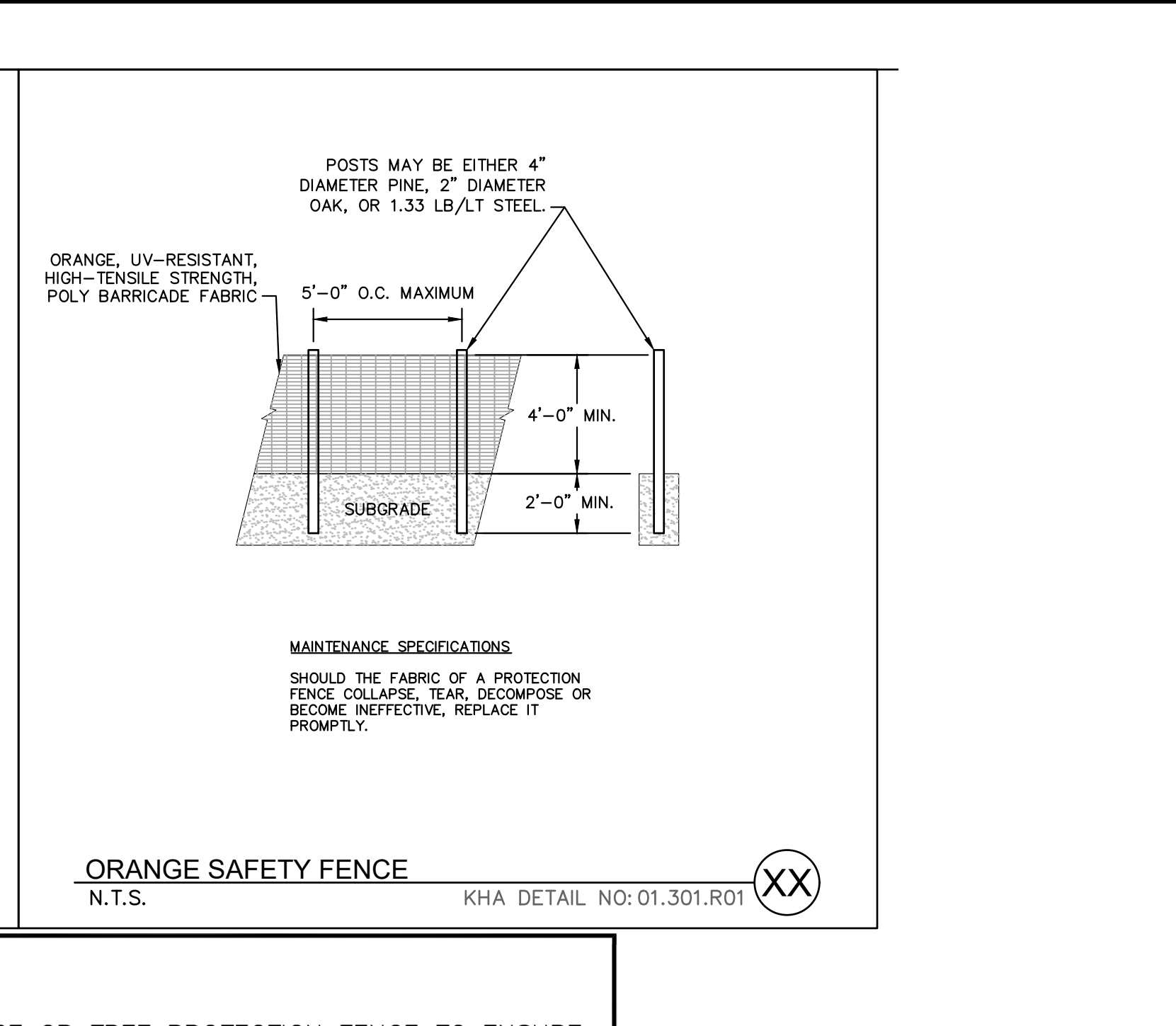
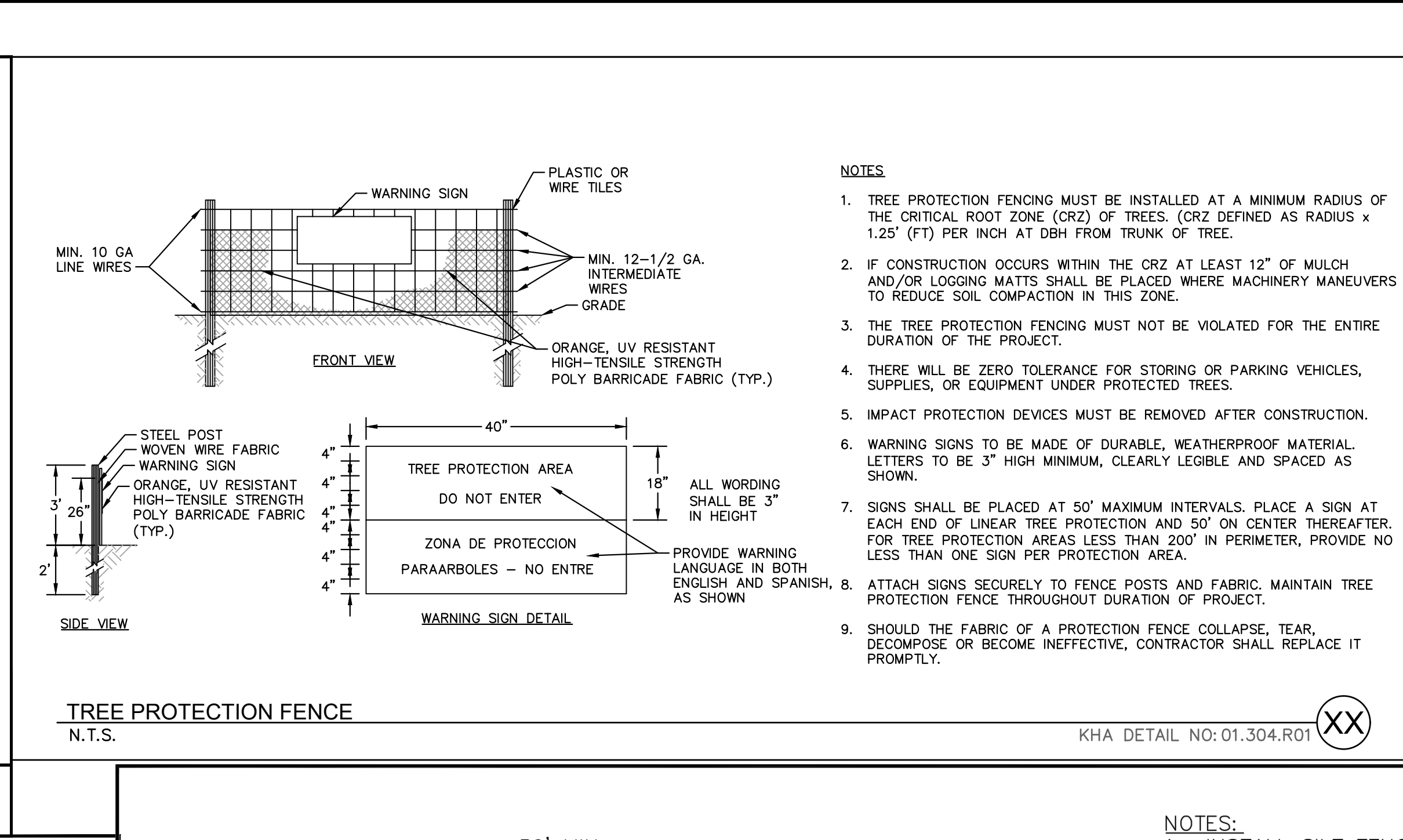
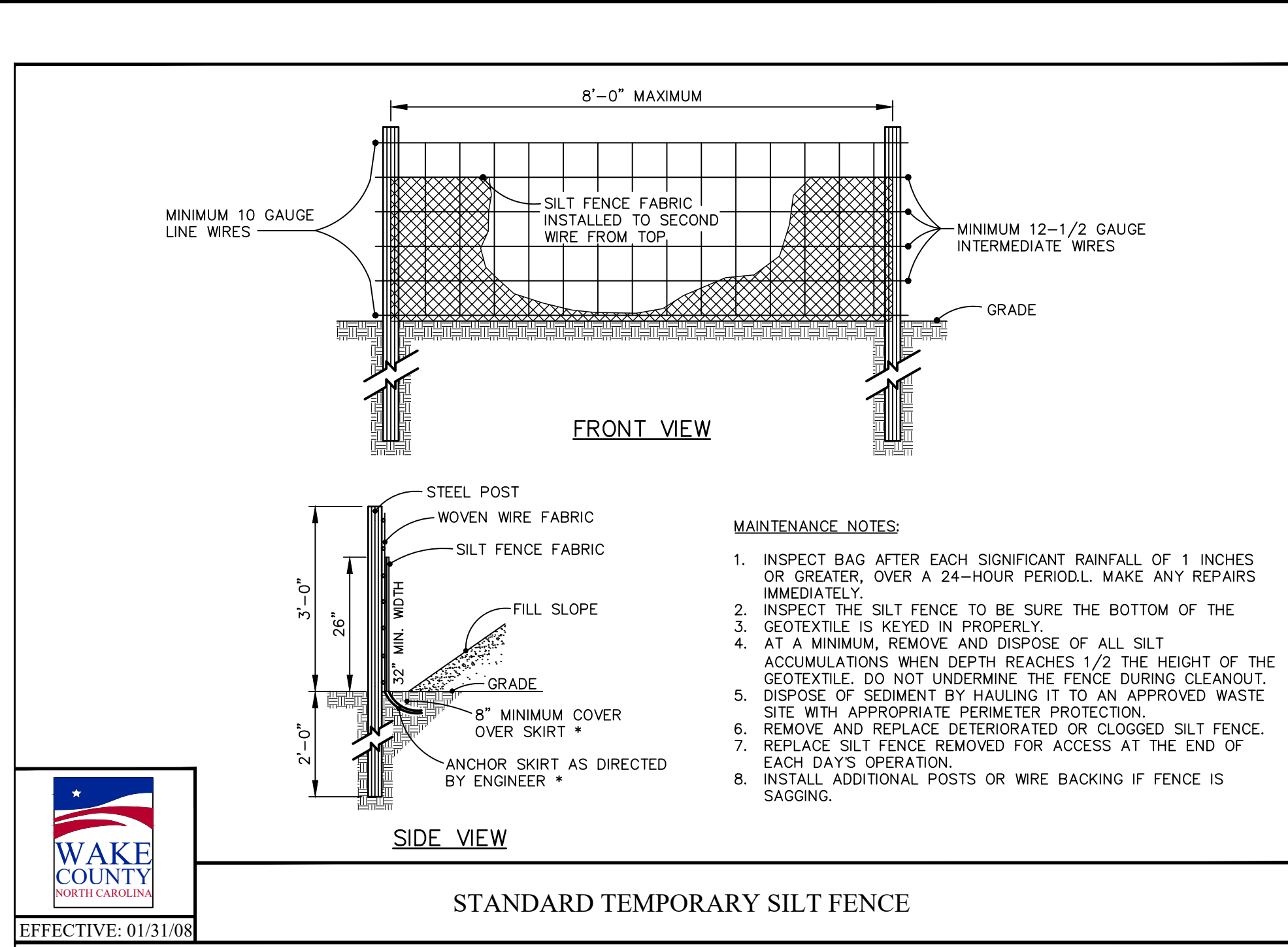
KIMLEY-HORN & ASSOCIATES, INC.
 421 FAYETTEVILLE STREET, SUITE 800, RALEIGH, NC 27601
 PHONE: 919.677.2000 FAX: 919.677.2050

REVISIONS
 No.

DATE



Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: CS.3 EROSION CONTROL DETAILS, October 02, 2023 02:42:51pm. K:\RAI_L\DEVELOP\13031004_Rolesville_Learning_Center\PTD_CAD Files\PlanSheets\CS.3 EROSION CONTROL DETAILS.dwg
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NO.	REVISIONS	DATE	BY
1			
2			
3			
4			
5			
6			
7			

Kimley >>> Horn

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 #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050
 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601

NOT FOR CONSTRUCTION

DATE: 09/29/2023
 SCALE: AS SHOWN
 DESIGNED BY: JAA
 DRAWN BY: JAA
 CHECKED BY: COB

THE LEARNING CENTER ROLESVILLE

EROSION CONTROL DETAILS

THE LEARNING CENTER ROLESVILLE

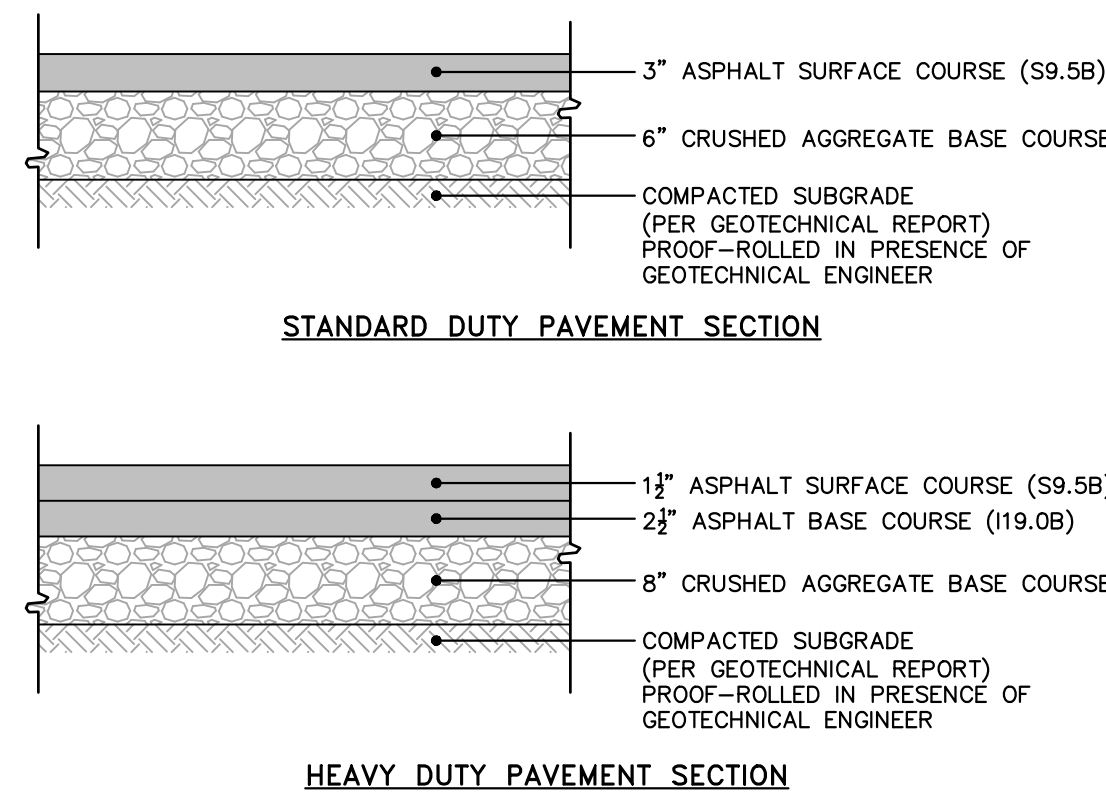
PREPARED FOR: **ROLESVILLE, LLC.**

TOWN OF ROLESVILLE, NORTH CAROLINA

SHEET NUMBER: **C5.3**

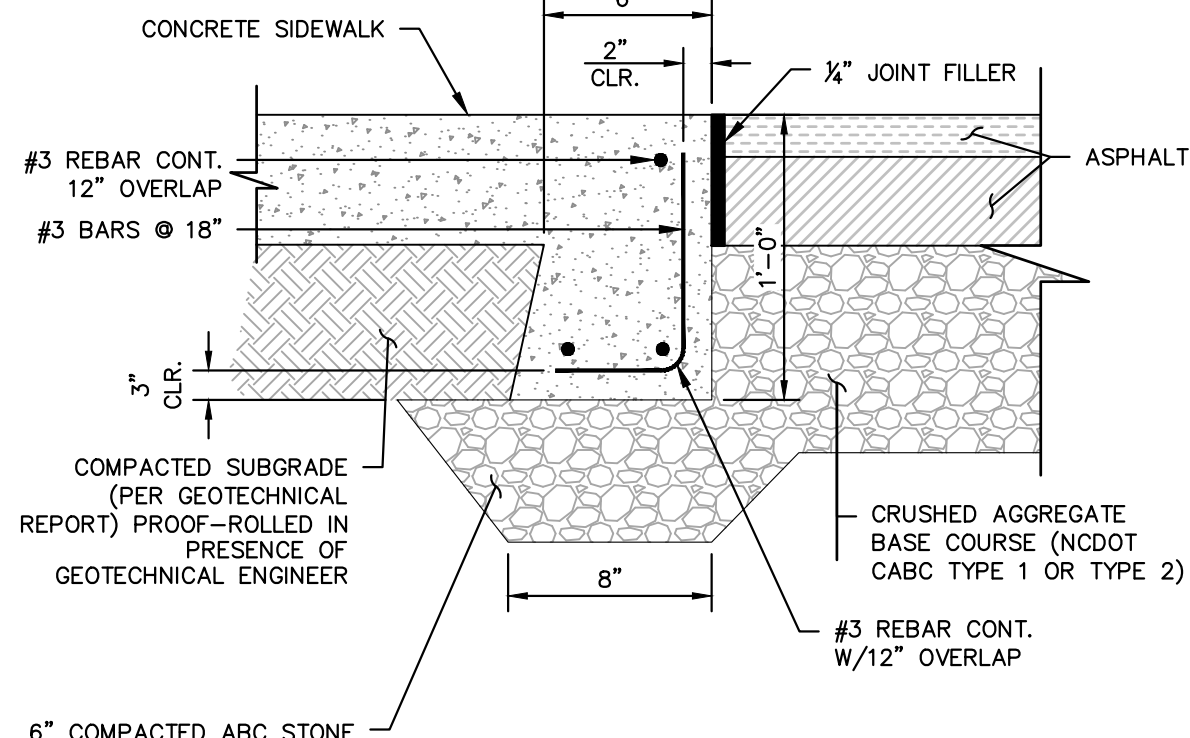


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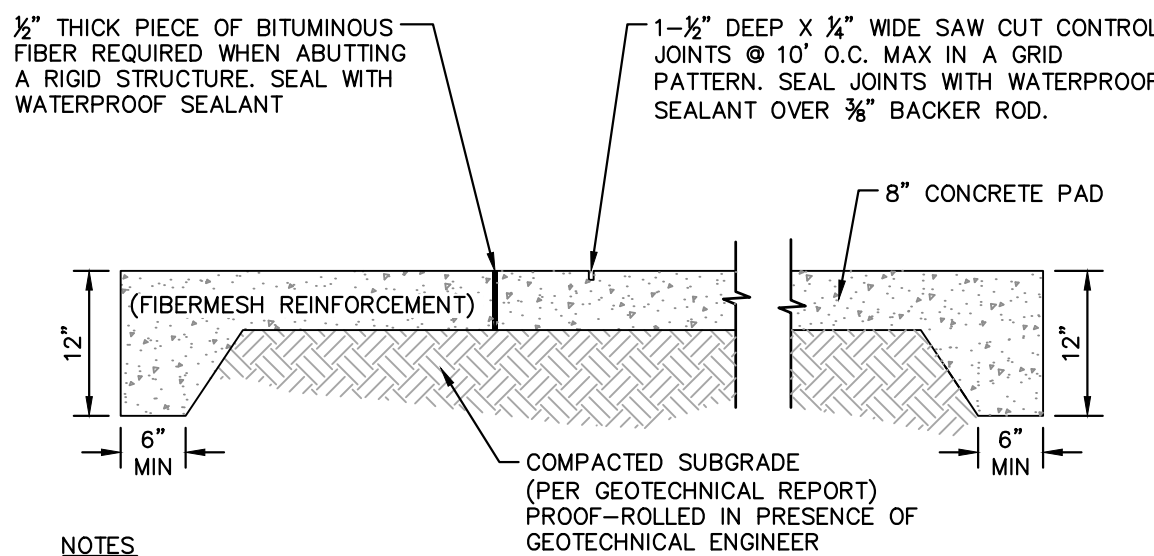


NOTES
 1. ALL PAVEMENT MATERIALS SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD SPECIFICATIONS.
 2. PAVEMENT SECTION MUST MEET THE CRITERIA GIVEN IN THE SITE SOIL REPORT.

ASPHALT PAVEMENT SECTIONS
 N.T.S. KHA DETAIL NO: 02.101.R02 XX

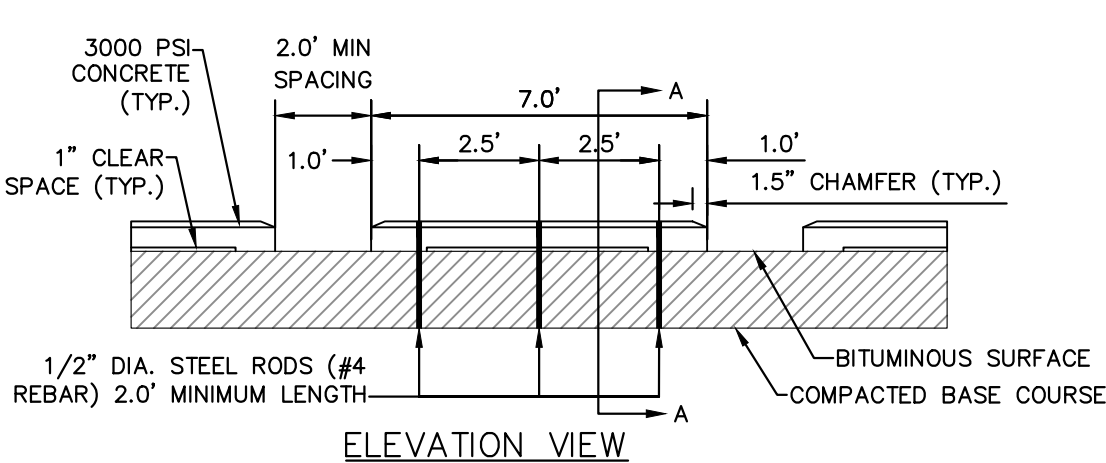


FLUSH CONCRETE SIDEWALK
 N.T.S. KHA DETAIL NO: 02.104.R02 XX

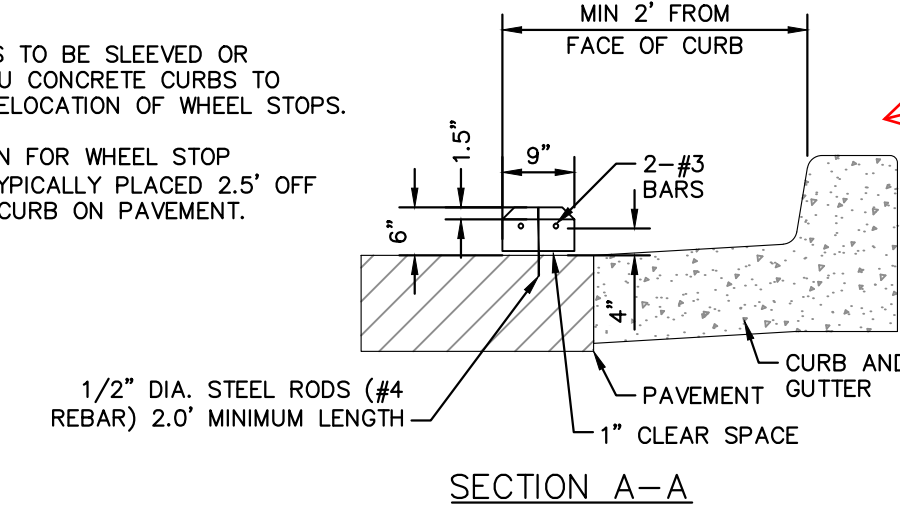


NOTES
 1. EXPANSION JOINTS AT BUILDINGS OR IMMOVABLE OBJECTS.
 2. CONTROL JOINTS 12' O.C.
 3. EXPANSION JOINTS 30' O.C. (MAX)
 4. CONTROL JOINT SPACING MAY VARY.
 5. BROOM FINISH

CONCRETE APRON AND DUMPSTER PAD
 N.T.S. KHA DETAIL NO: 02.107.R01 XX

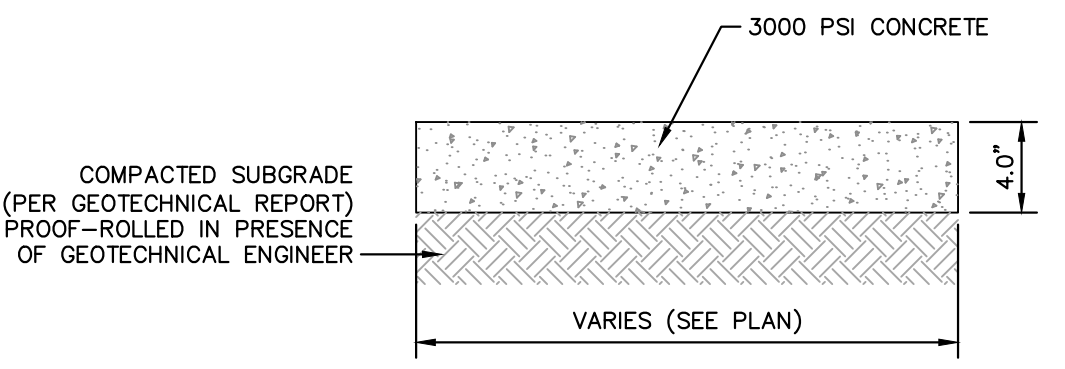


NOTES
 1. ANCHOR RODS TO BE SLEEVED OR GREASED THRU CONCRETE CURBS TO ALLOW FOR RELOCATION OF WHEEL STOPS.
 2. SEE SITE PLAN FOR WHEEL STOP LOCATIONS. TYPICALLY PLACED 2.5' OFF OF BACK OF CURB ON PAVEMENT.

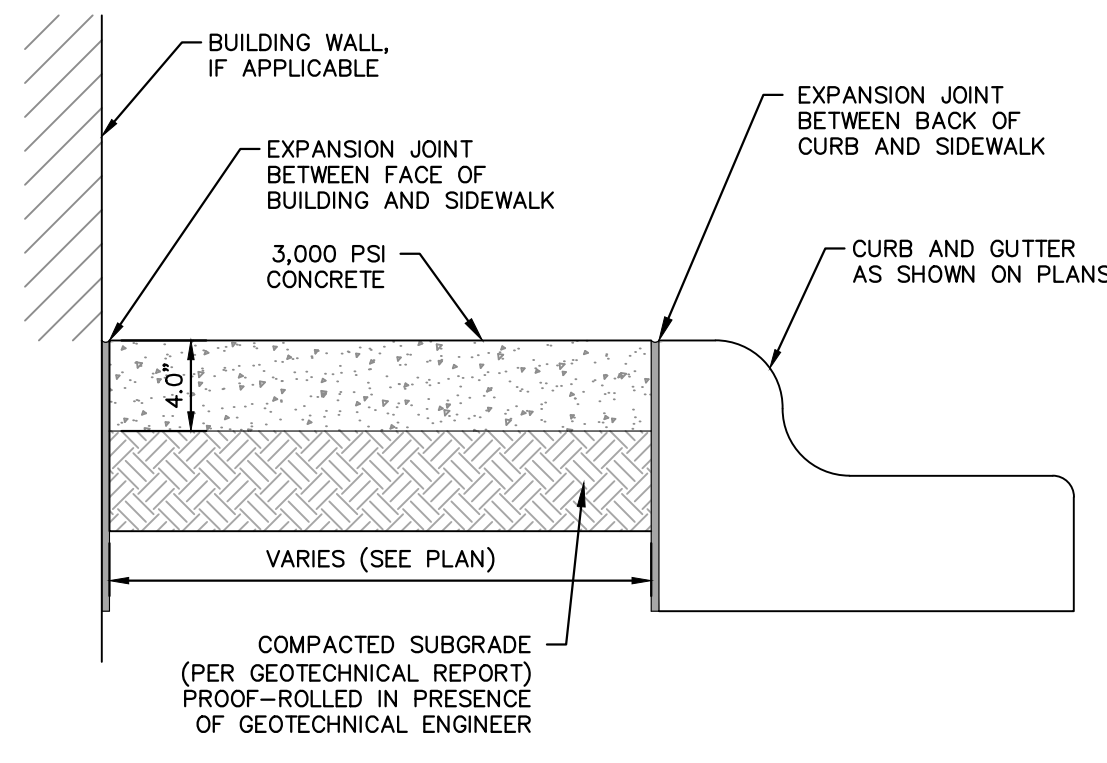


WHEEL STOP
 N.T.S. KHA DETAIL NO: 02.111.R02 XX

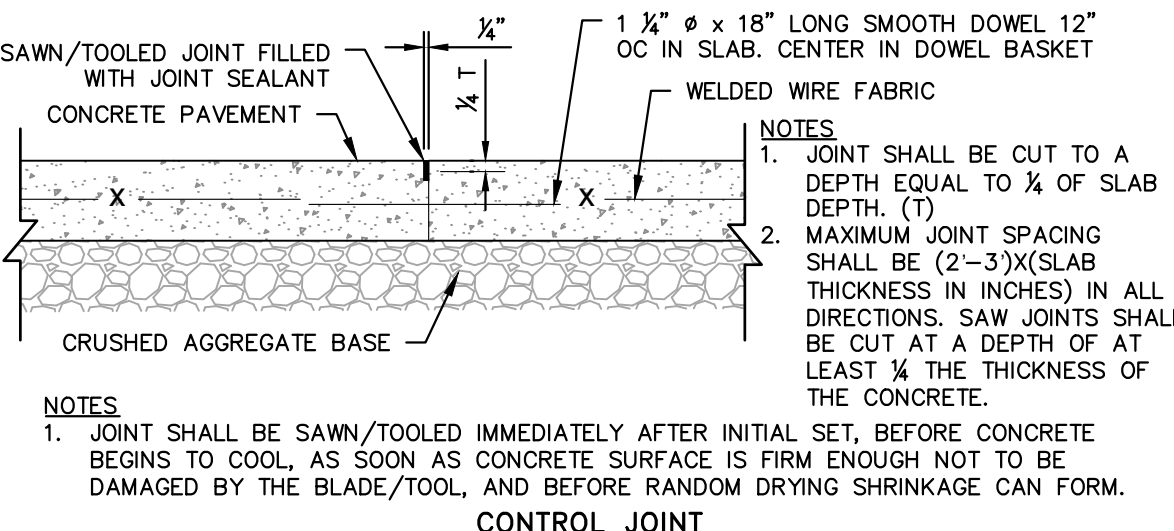
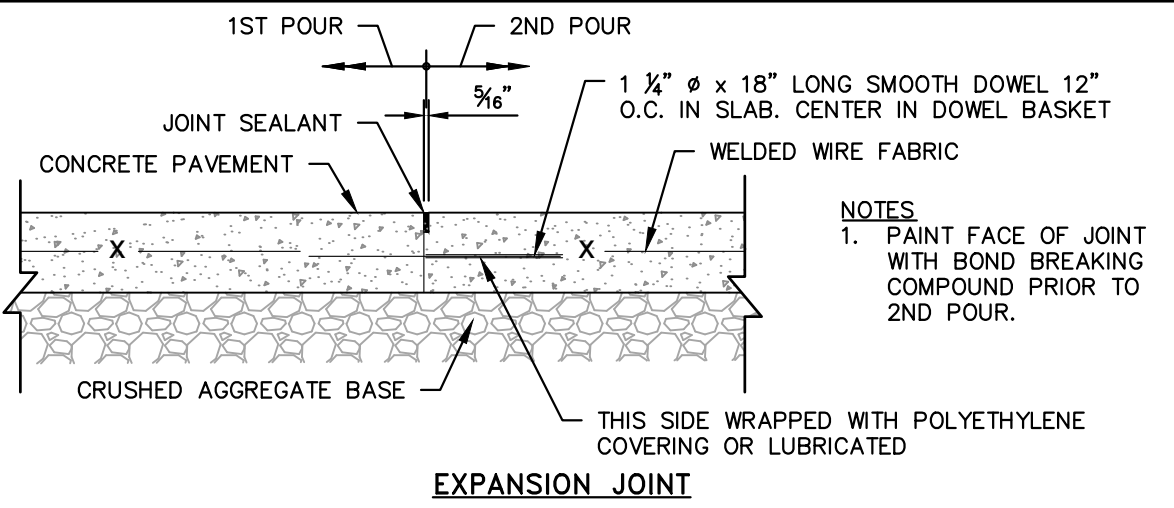
62. Wheel stops are shown in the details, but bollards are shown in the plan. Please revise either plans or details accordingly.



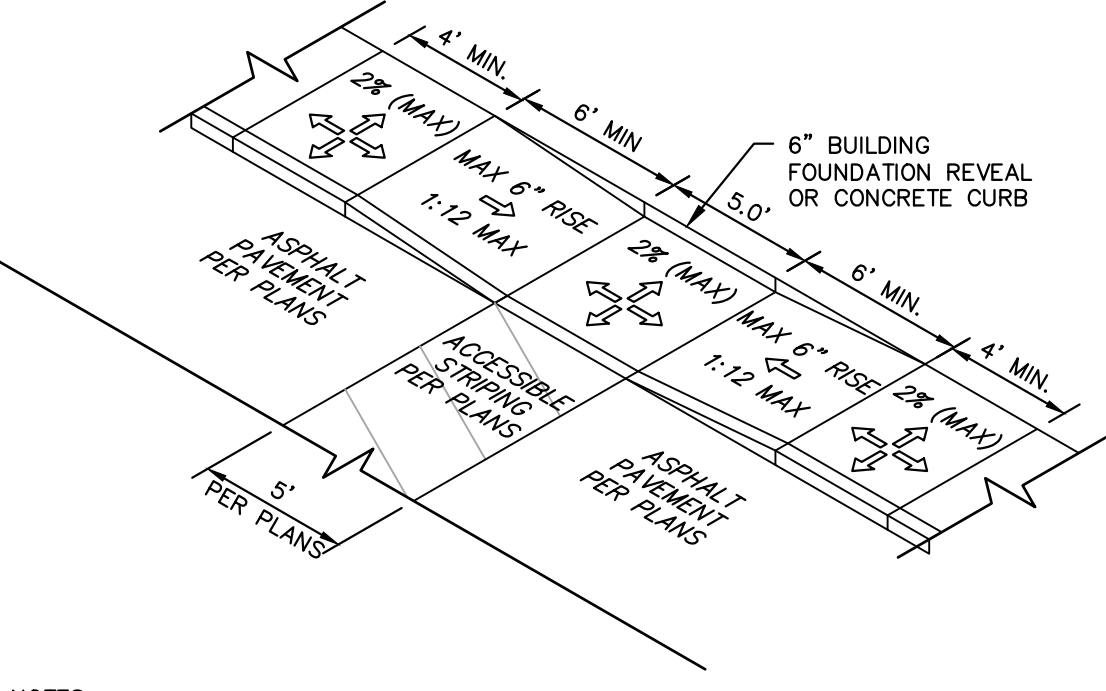
SIDEWALK SECTION
 N.T.S. KHA DETAIL NO: 02.102.R01 XX



SIDEWALK ADJACENT TO PARKING AREAS
 N.T.S. KHA DETAIL NO: 02.105.R02 XX

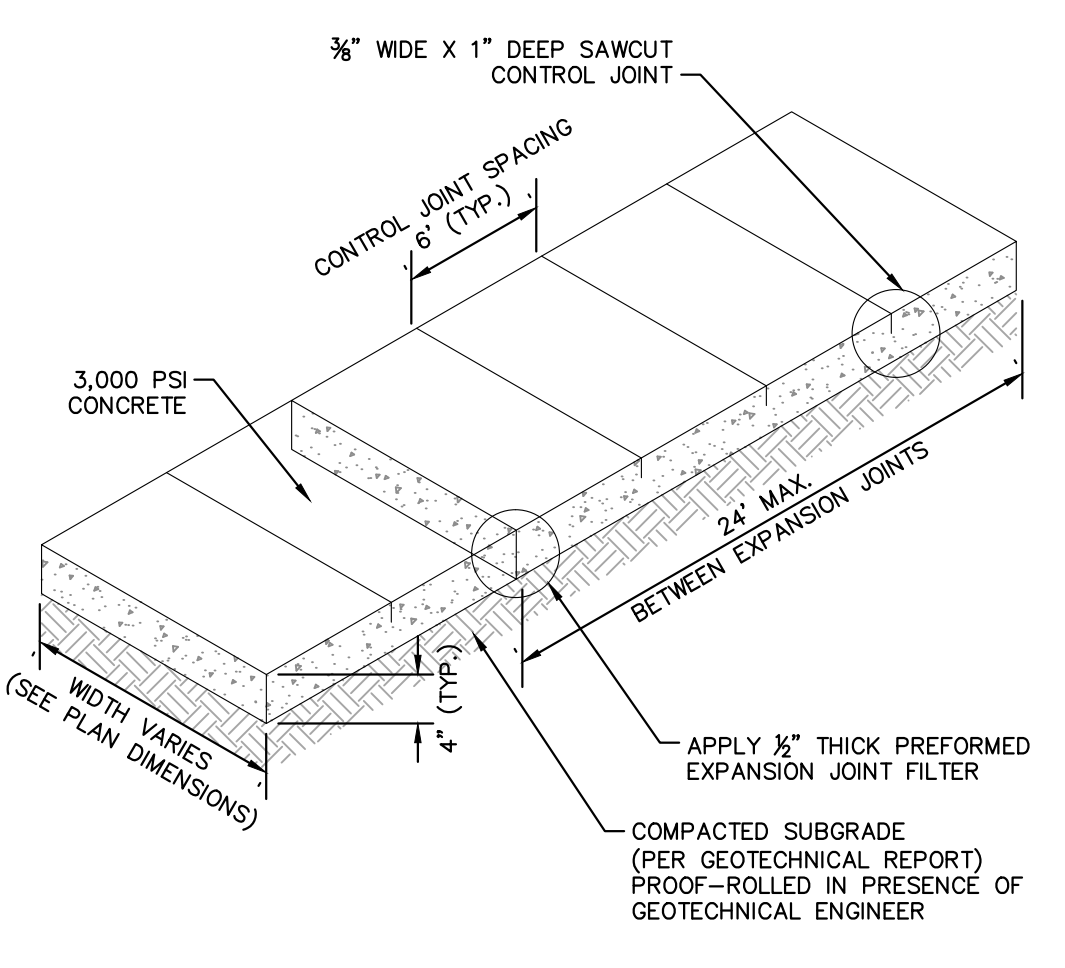


HEAVY DUTY CONTROL AND EXPANSION JOINTS
 N.T.S. KHA DETAIL NO: 02.108.R02 XX



NOTES
 1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
 2. CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 3,000 PSI.
 3. INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
 4. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
 5. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
 6. CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%.

DEPRESSED CURB RAMP
 N.T.S. KHA DETAIL NO: 02.109.R02 XX



SIDEWALK
 N.T.S. KHA DETAIL NO: 02.103.R02 02

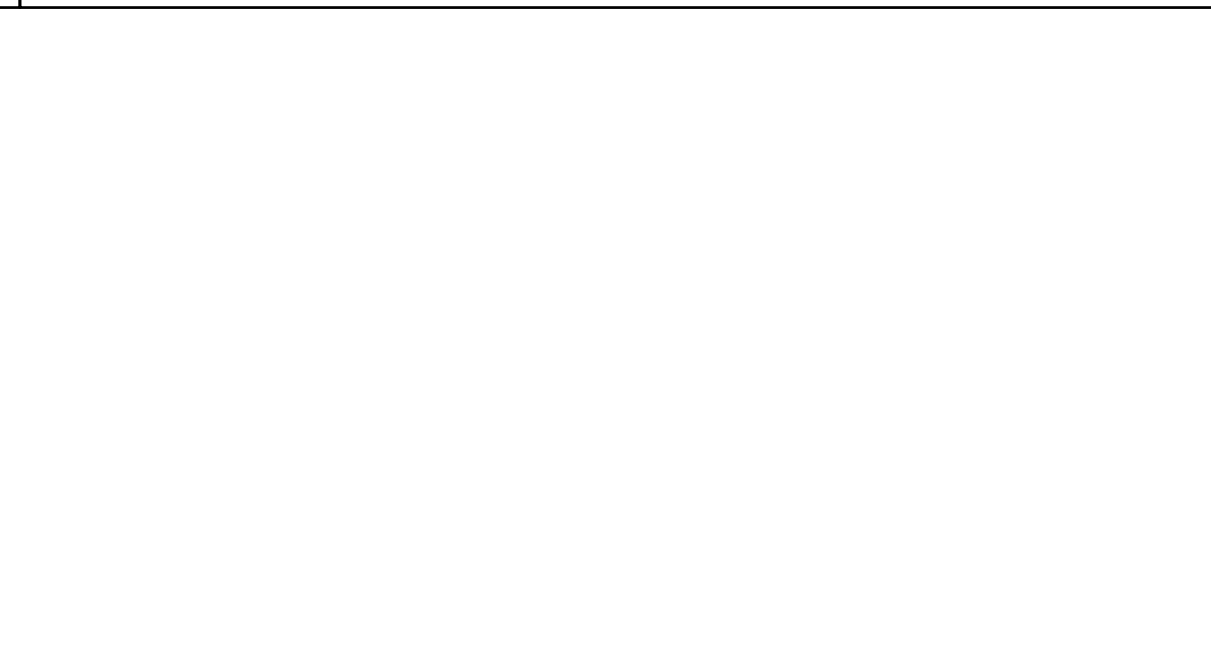
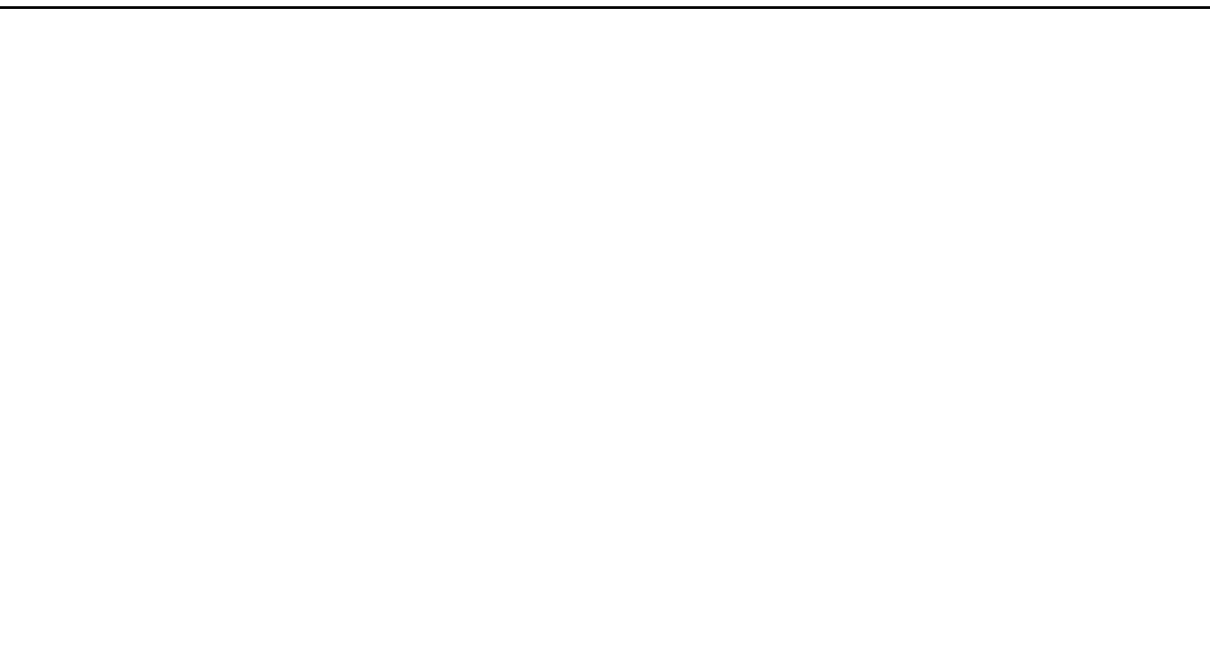
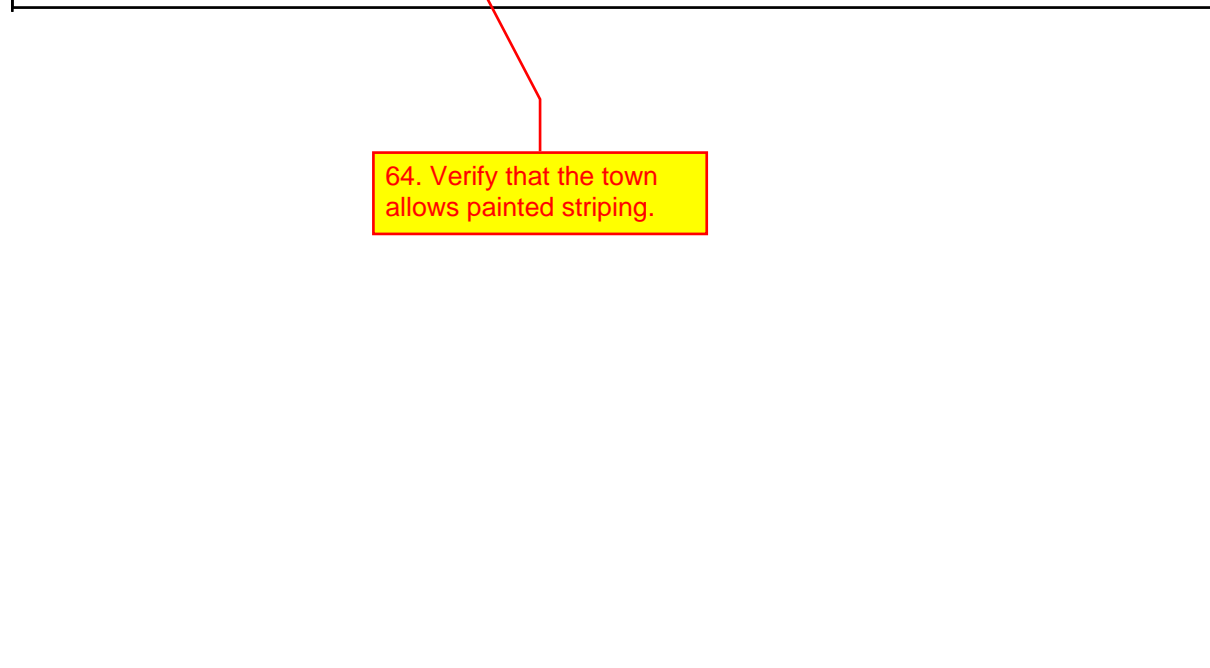
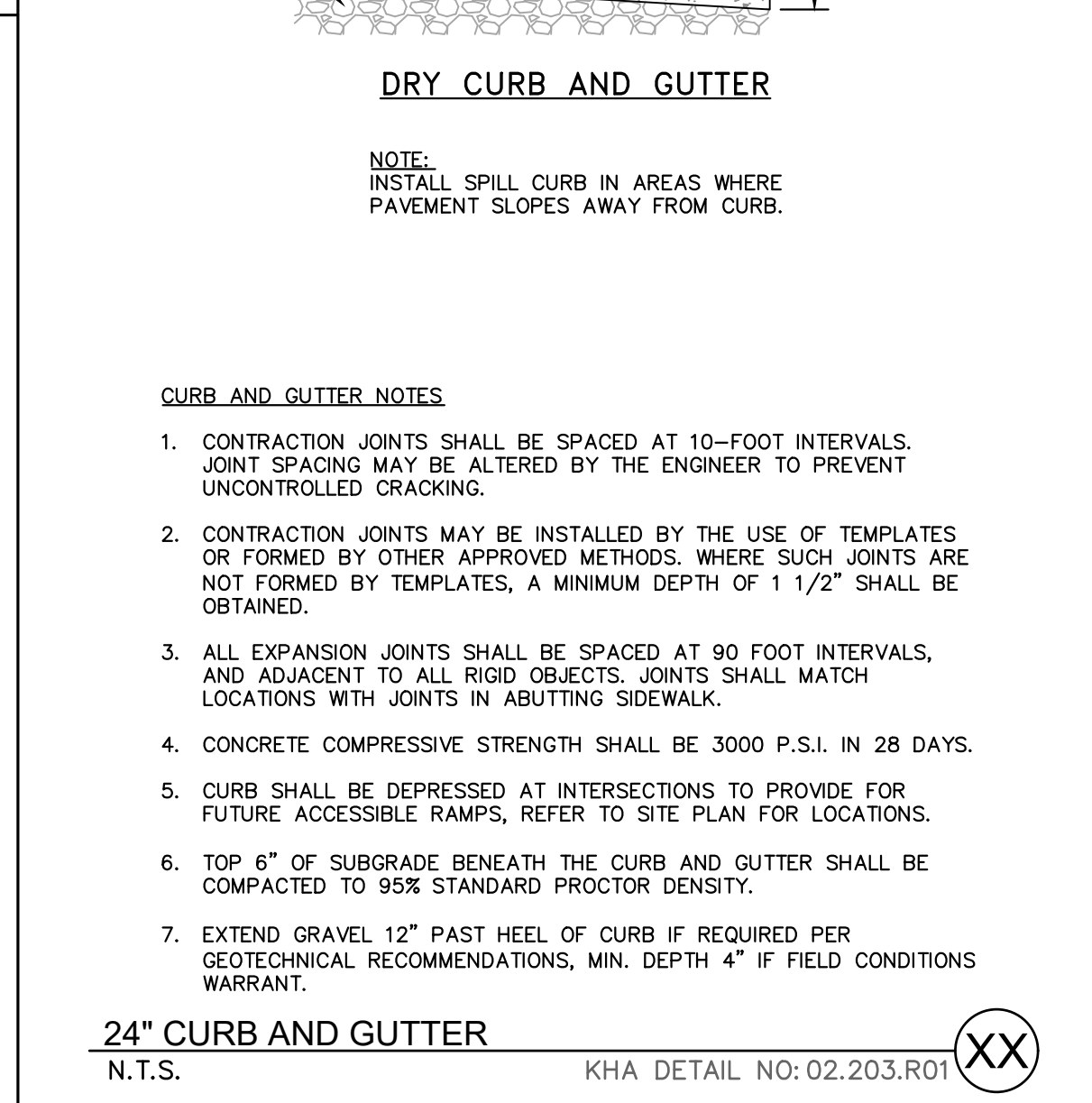
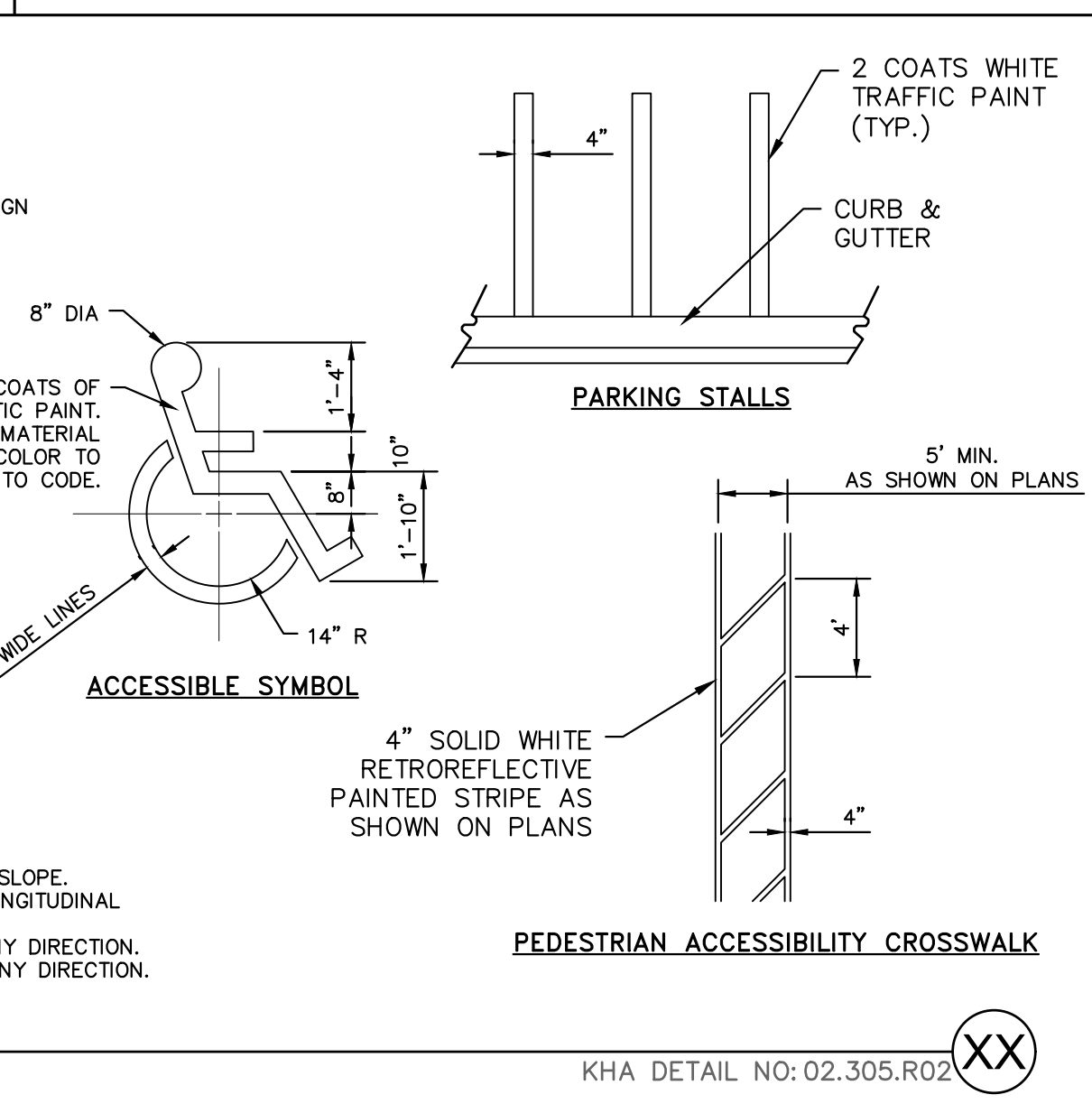
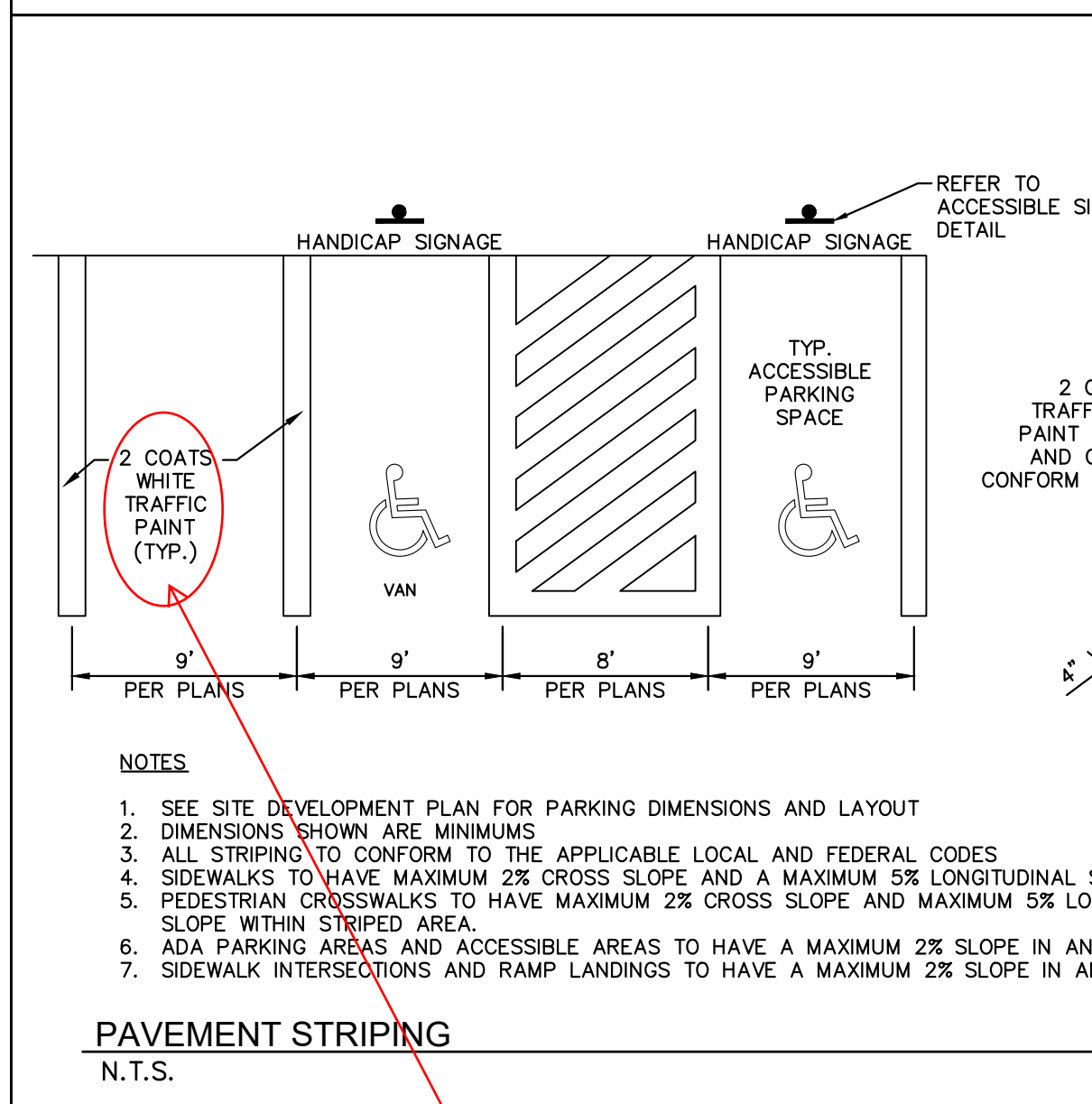
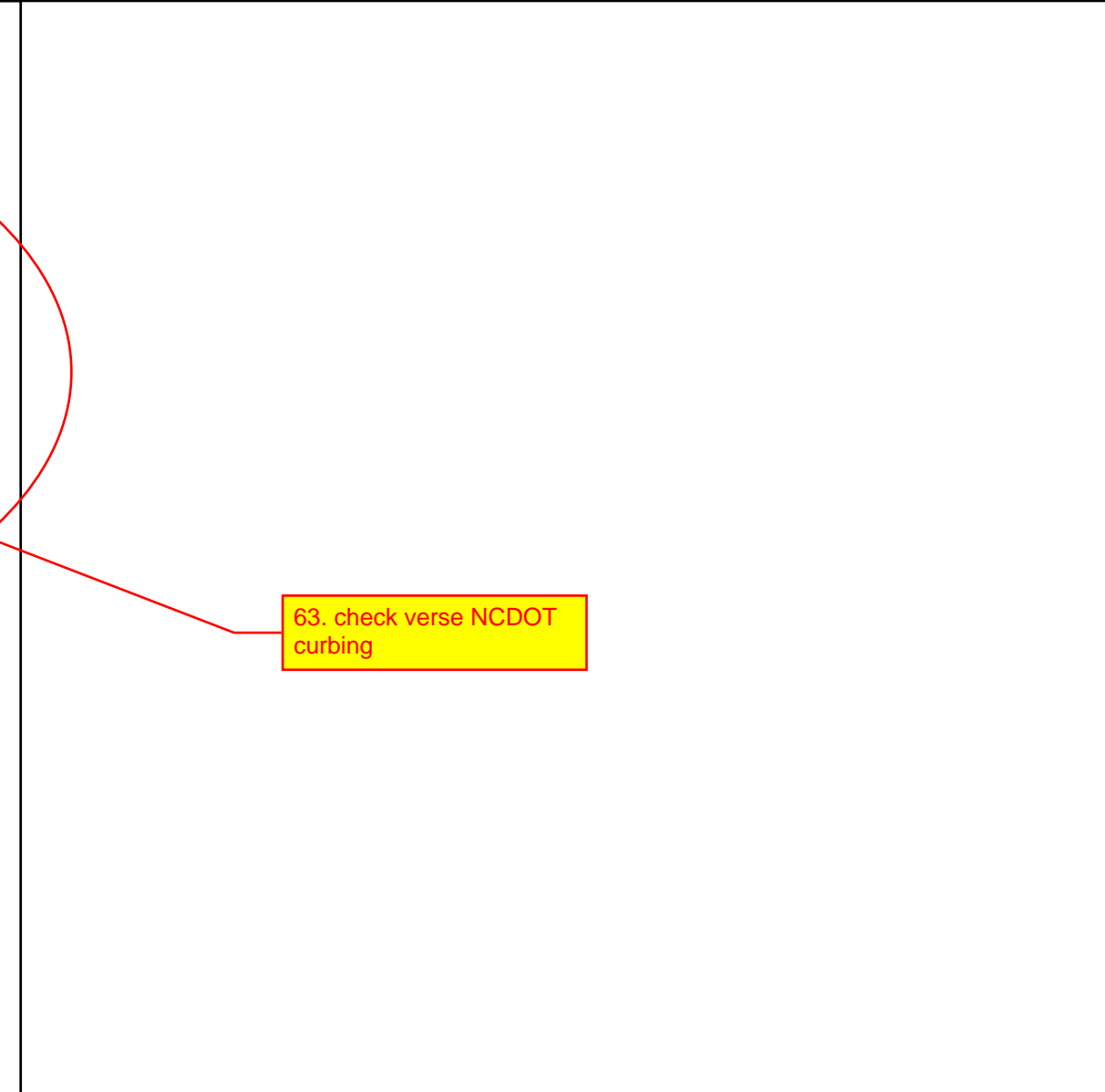
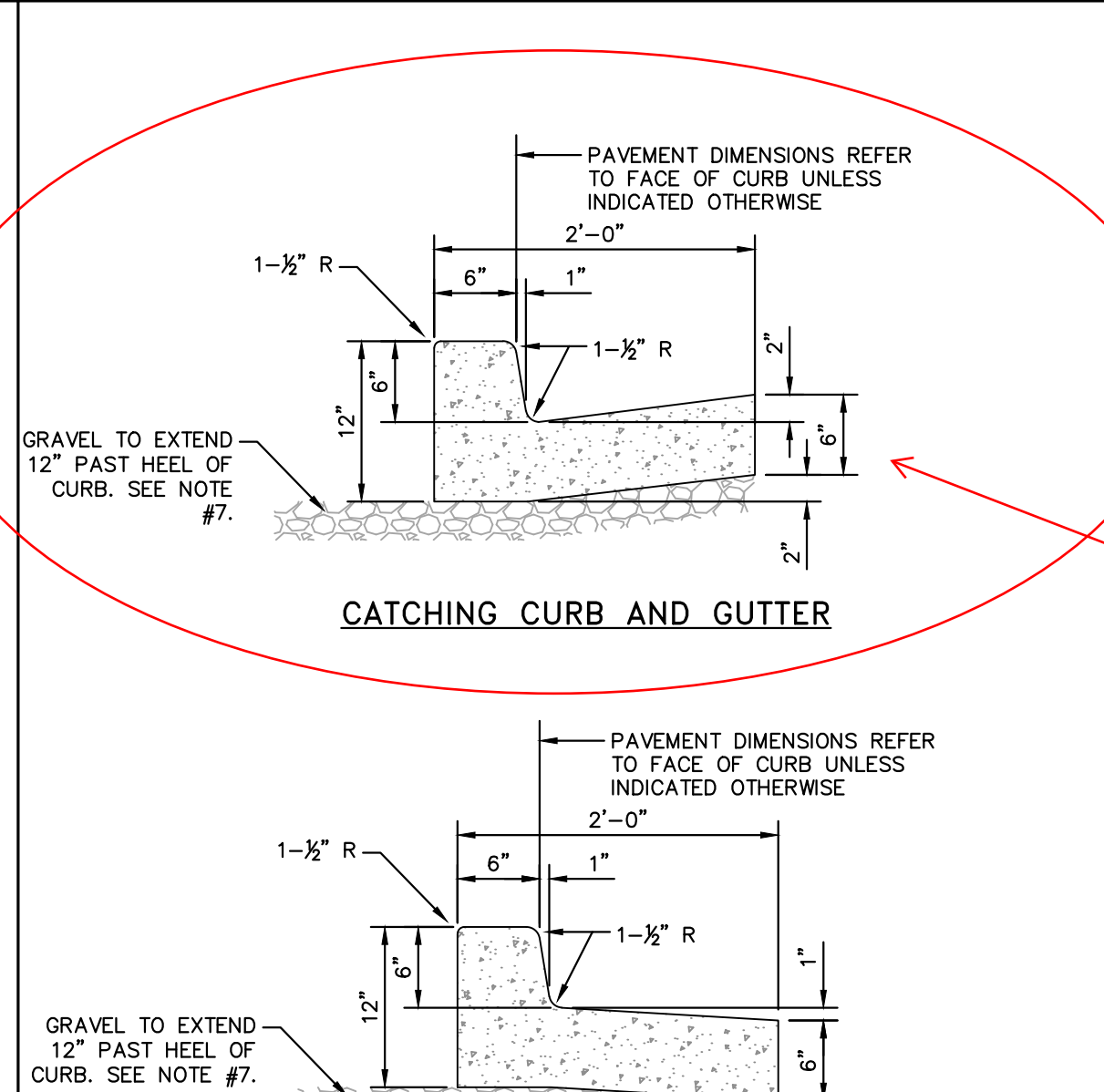
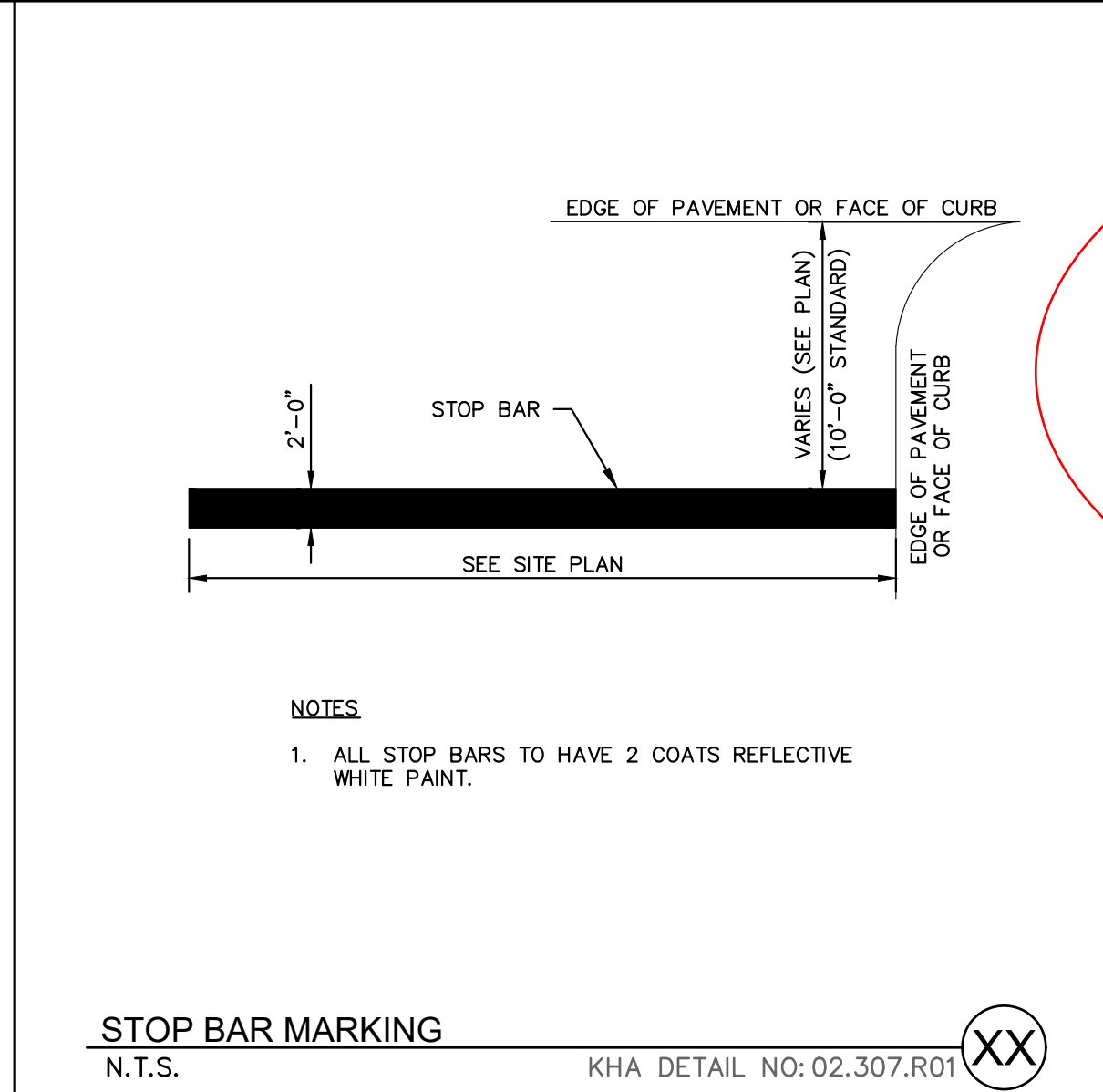
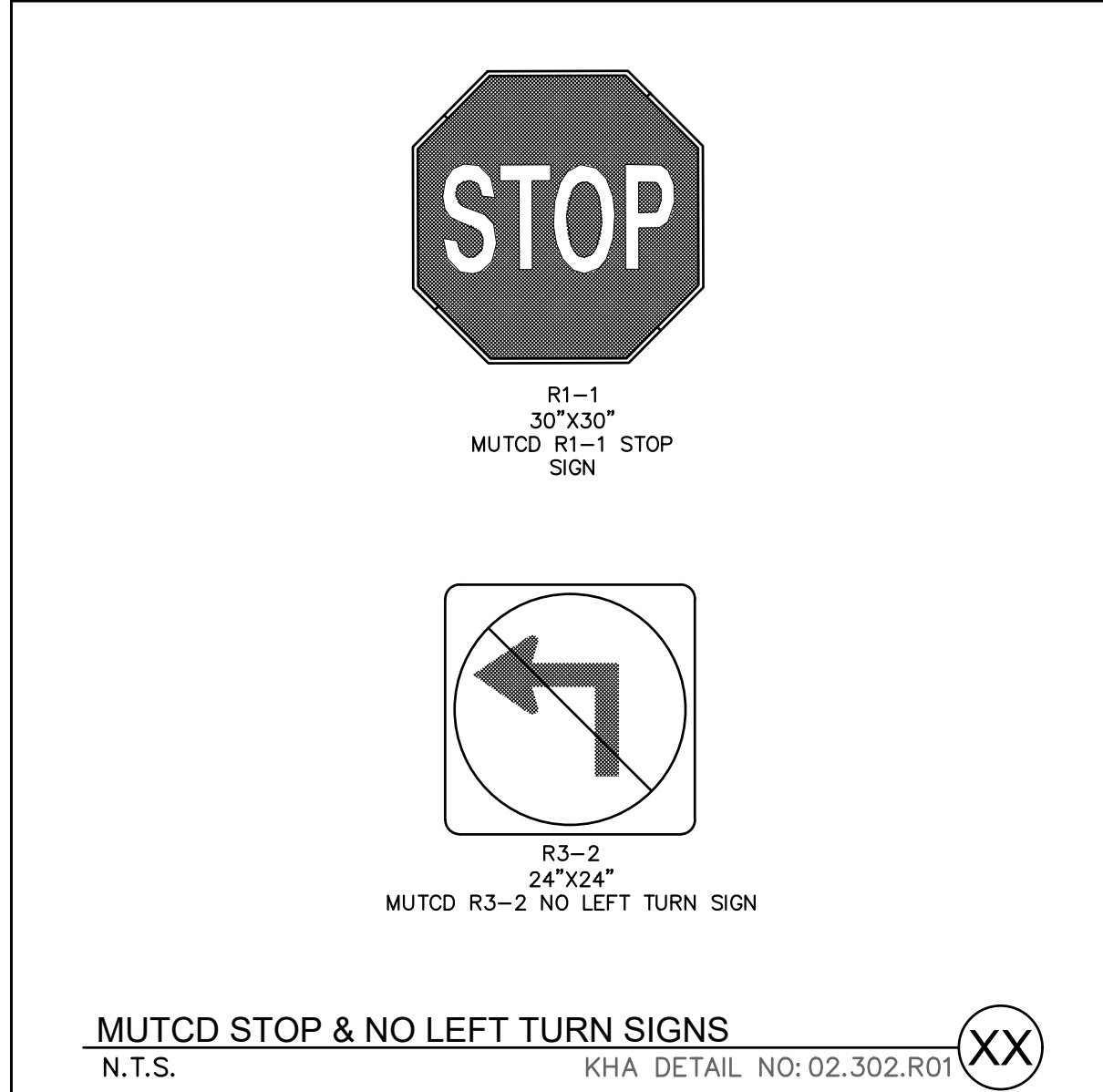
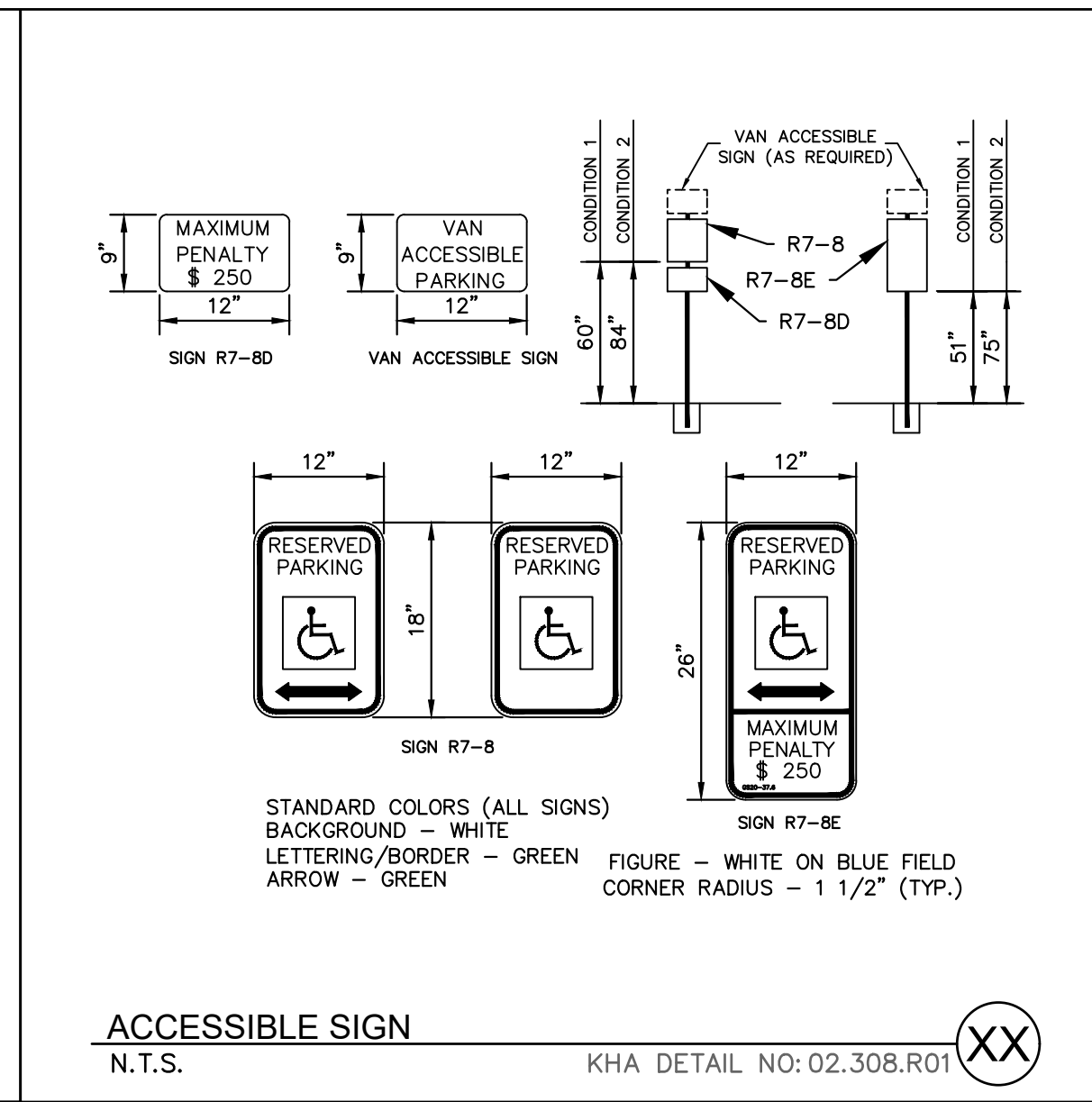
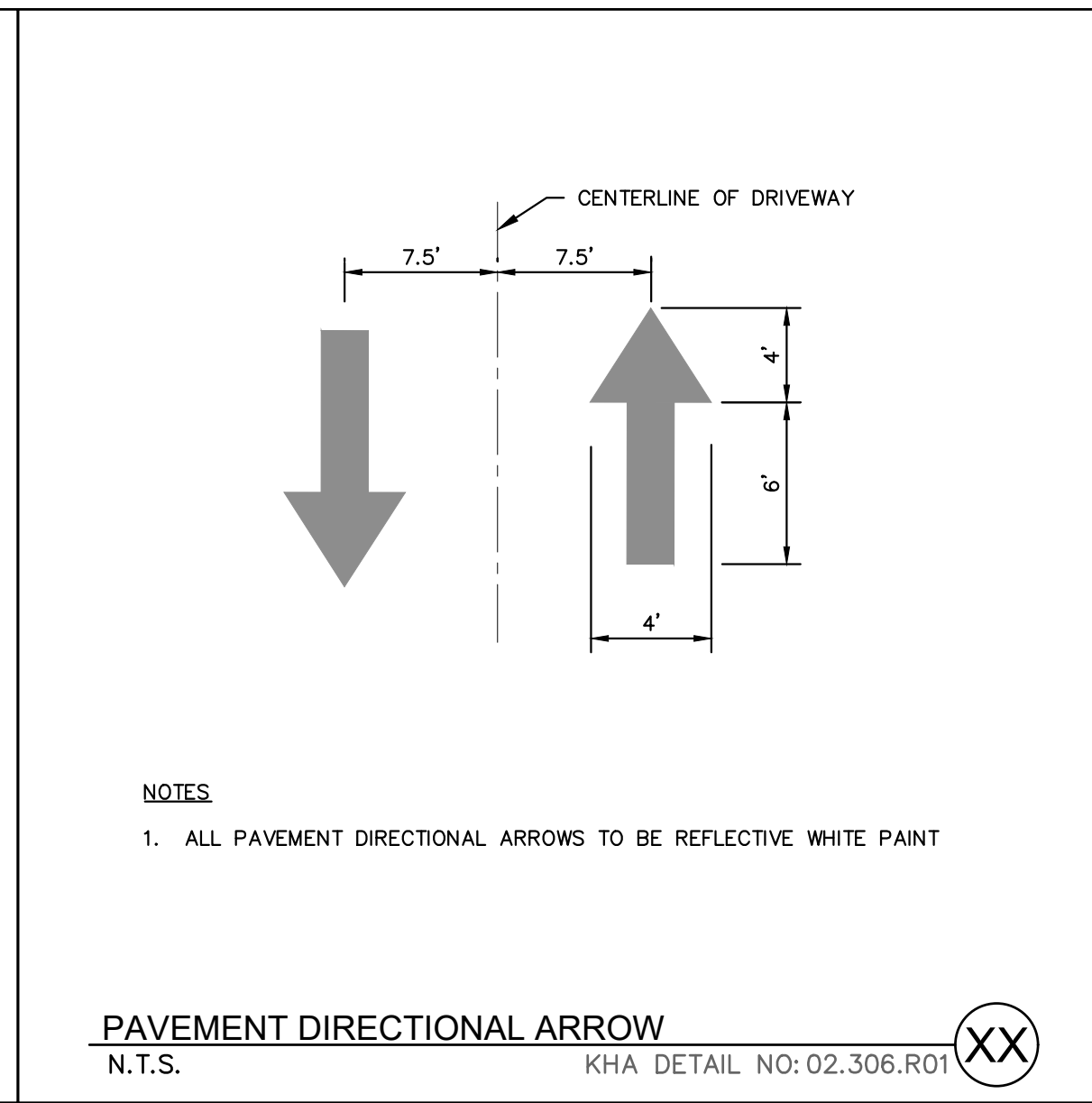
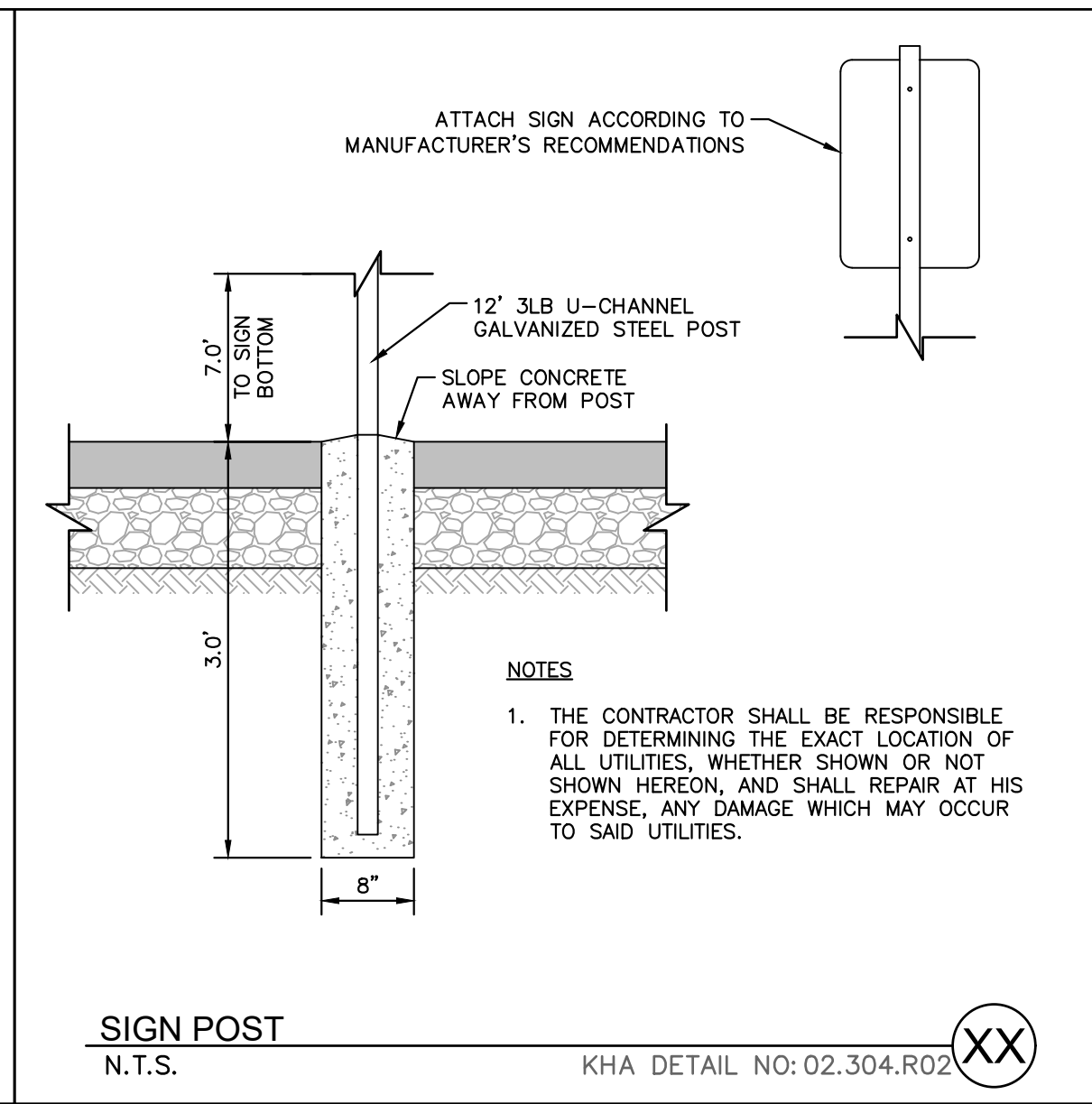
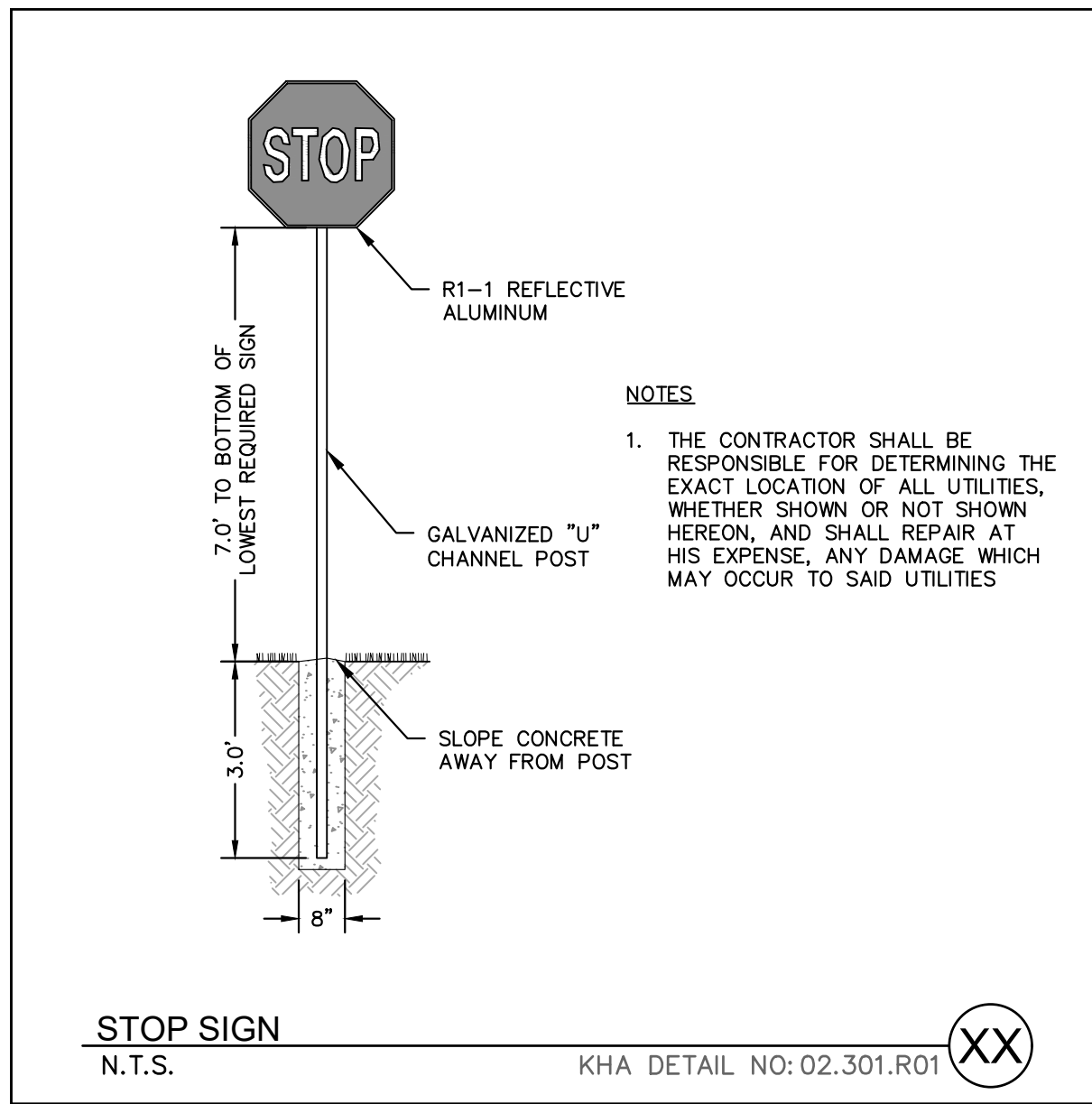
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		REVISIONS
<p>THE LEARNING CENTER ROLESVILLE PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA</p>		<p>KHA PROJECT 013031004 DATE 09/29/2023 SCALE AS SHOWN DESIGNED BY JAA DRAWN BY JAA CHECKED BY COE</p>
<p>SITE DETAILS</p>		<p>SHEET NUMBER C8.0</p>



Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: C8.1 SITE DETAILS, October 02, 2023, 02:43:00pm, K:\RAL_LDEV\013031004_Rolesville_Learning_Center\PT10_CAD Files\PlanSheets\C8.1 SITE DETAILS.dwg
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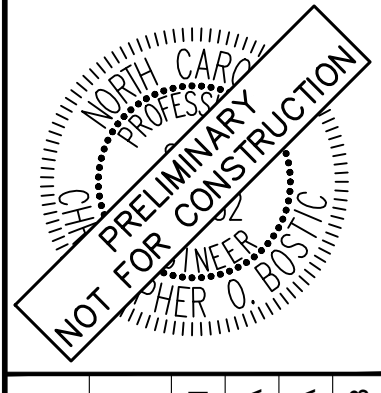
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64. Verify that the town allows painted striping.

63. check verse NCDOT curbing

No.	REVISIONS	DATE	BY

Kimley >>> Horn
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421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601



KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COE

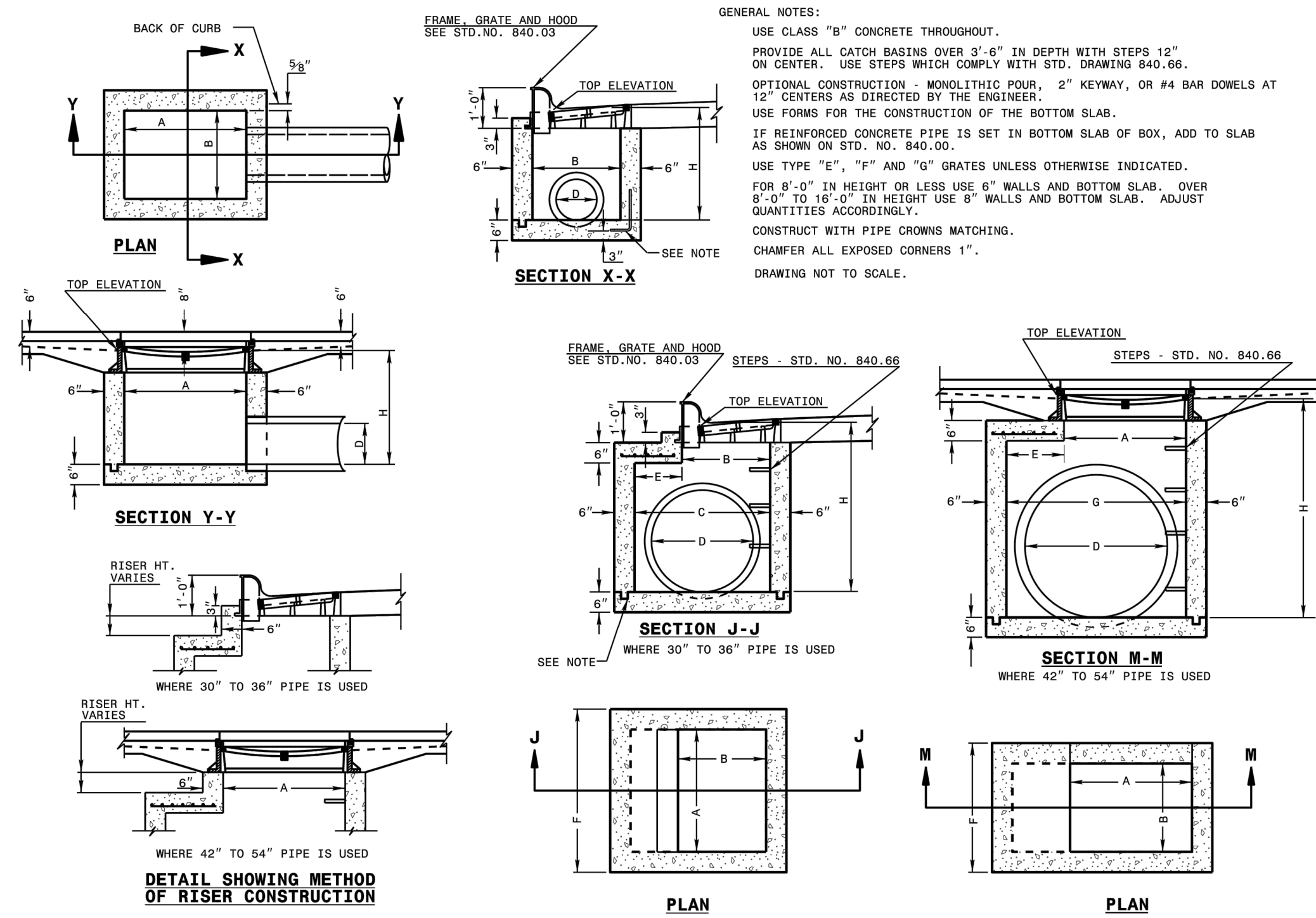
SITE DETAILS

THE LEARNING CENTER ROLESVILLE
PREPARED FOR
ROLESVILLE, LLC.
TOWN OF ROLESVILLE
NORTH CAROLINA

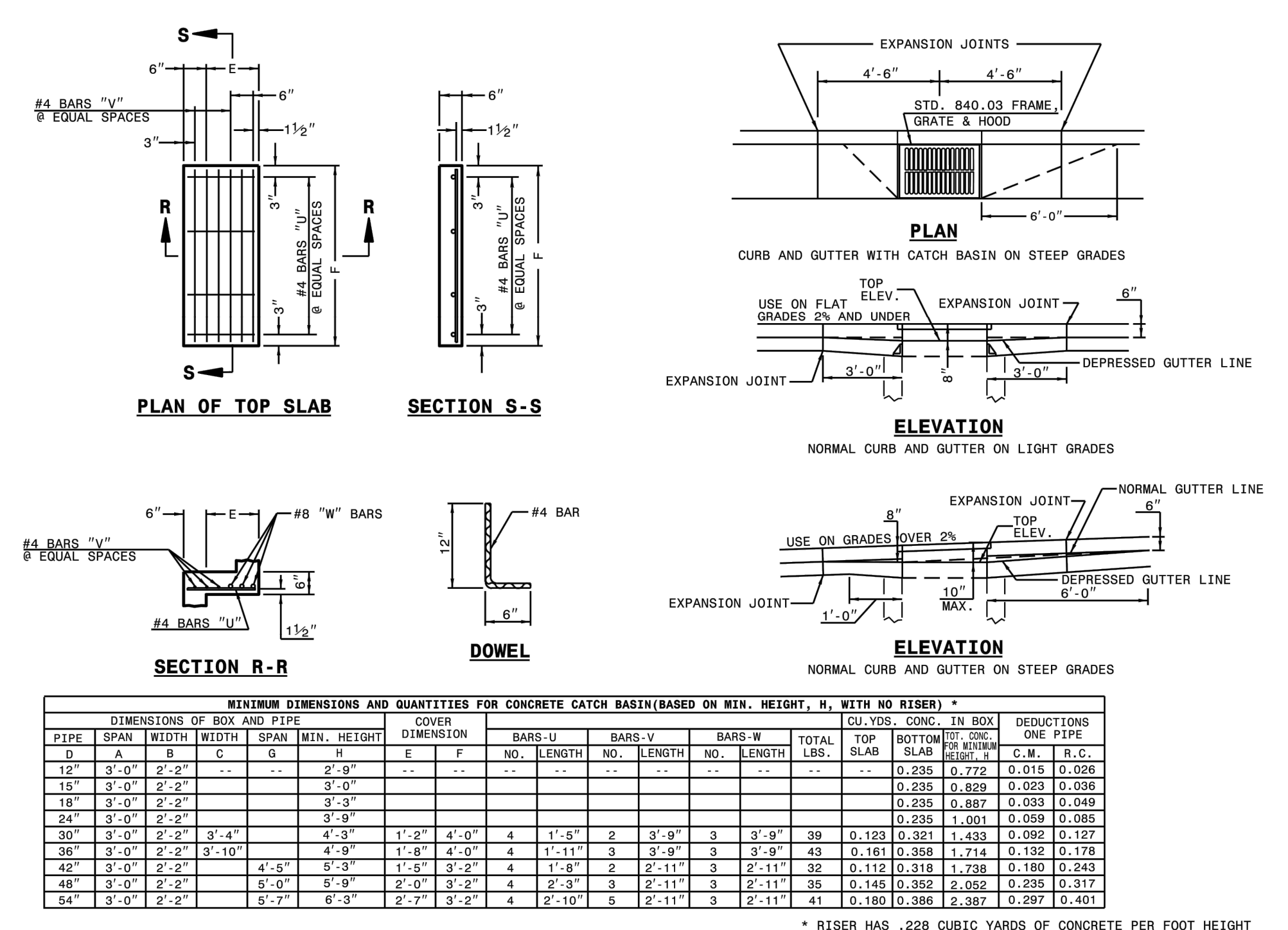
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C8.1



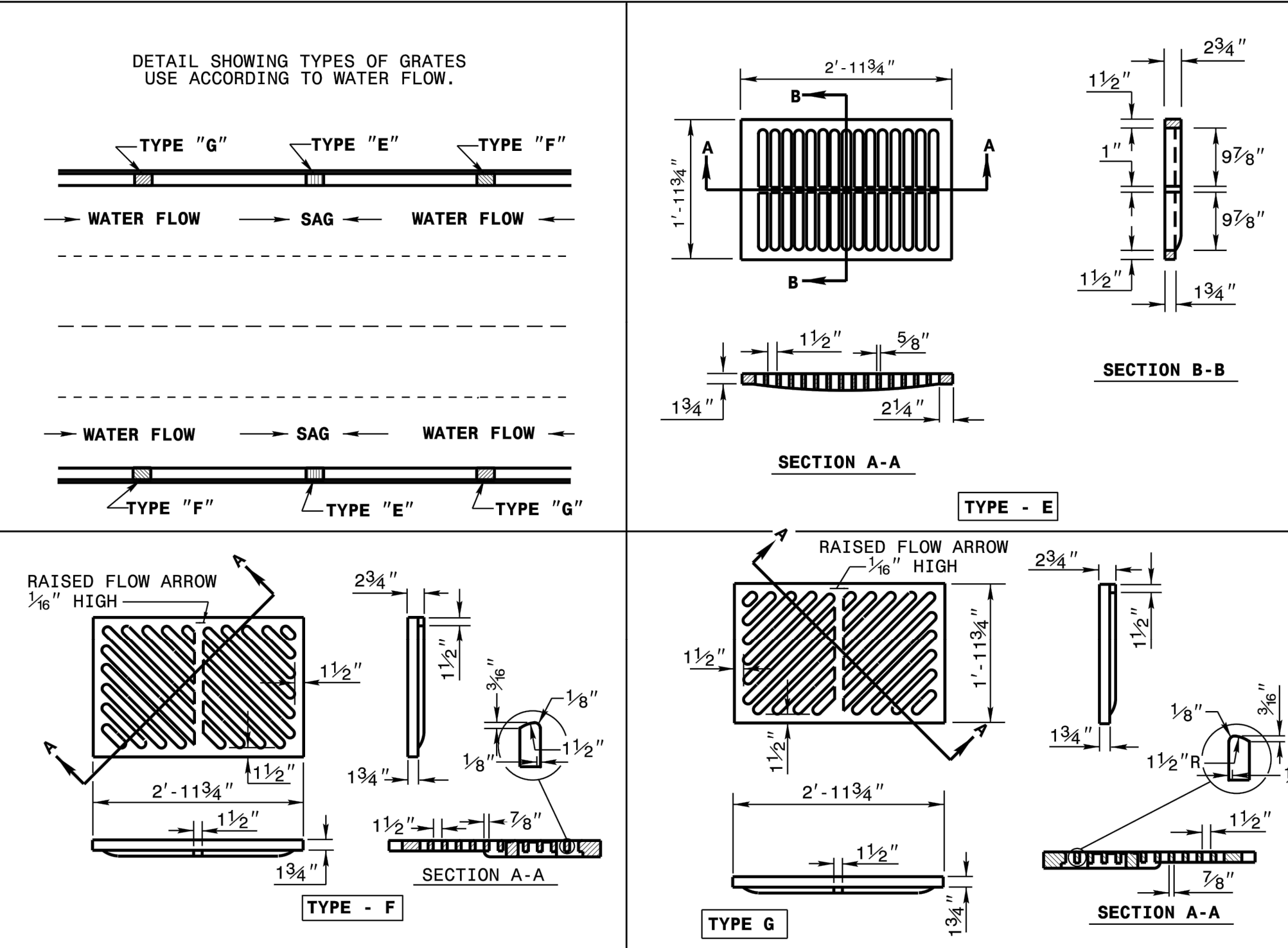
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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE
 SHEET 1 OF 2
840.02



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE
 SHEET 2 OF 2
840.02



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN
 SHEET 2 OF 2
840.03

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THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

STORM DETAILS

SHEET NUMBER
C9.1

KHA PROJECT 013031004
 DATE 09/29/2023
 SCALE AS SHOWN
 DESIGNED BY JAA
 DRAWN BY JAA
 CHECKED BY COE

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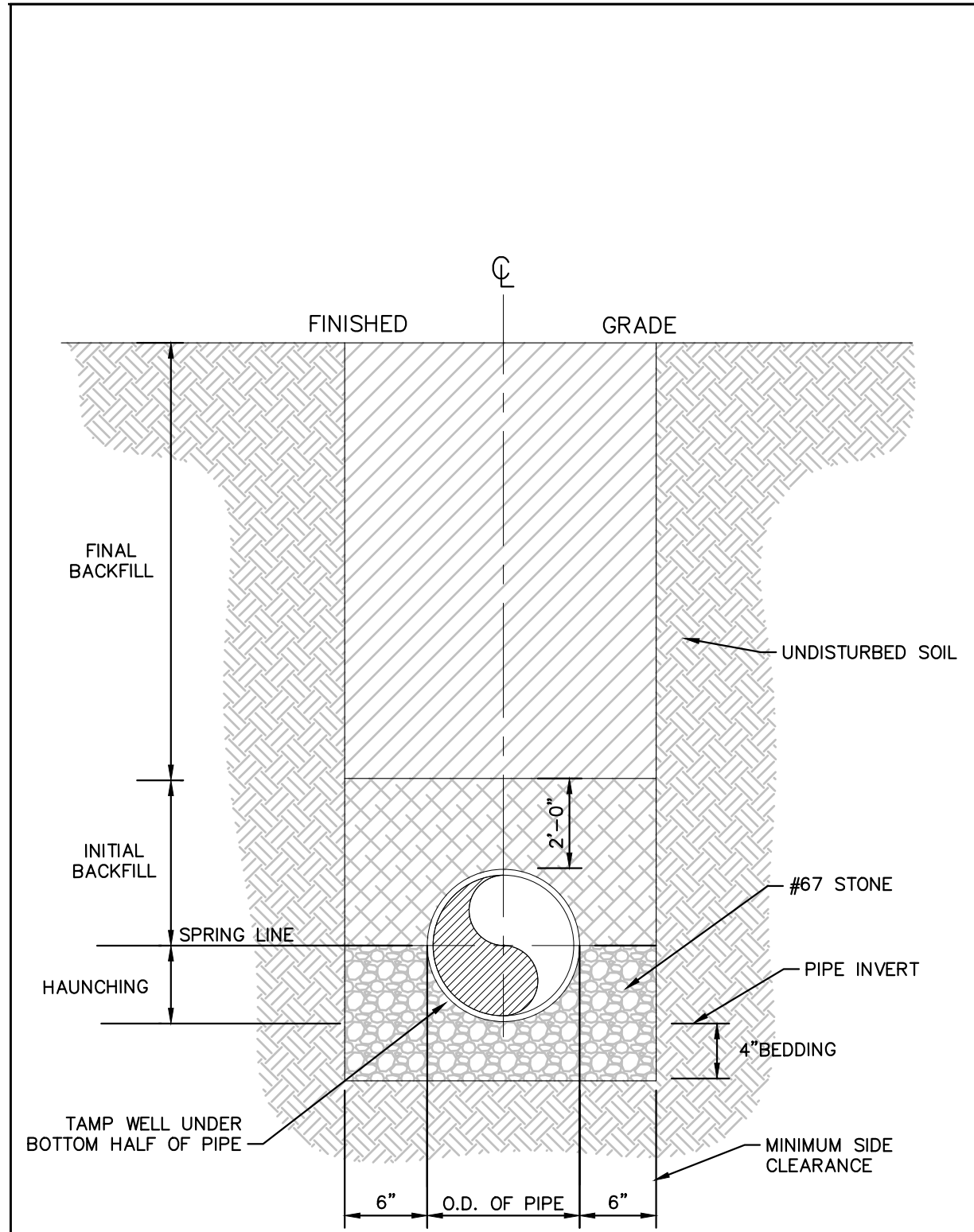
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE
 SHEET 2 OF 2
840.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE
 SHEET 2 OF 2
840.02

NO PRELIMINARY CONSTRUCTION

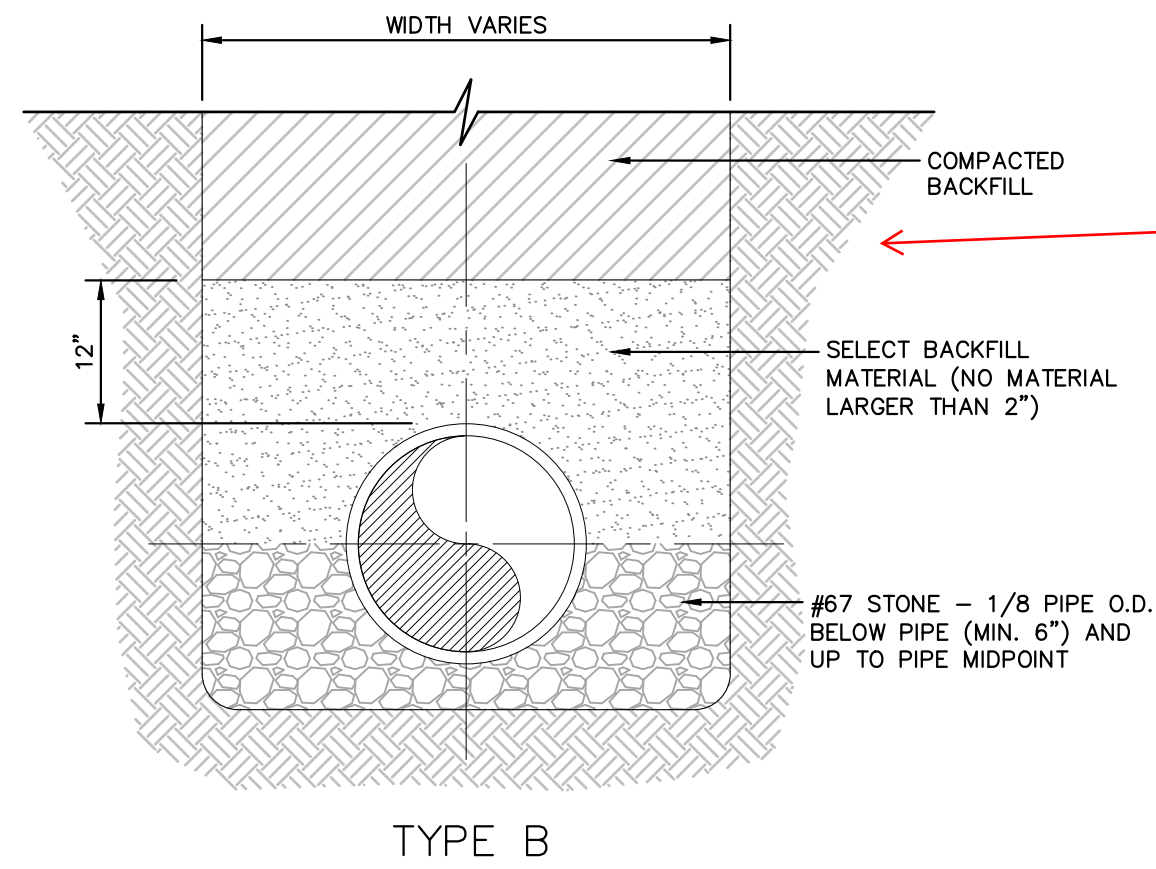
REVISIONS

DATE

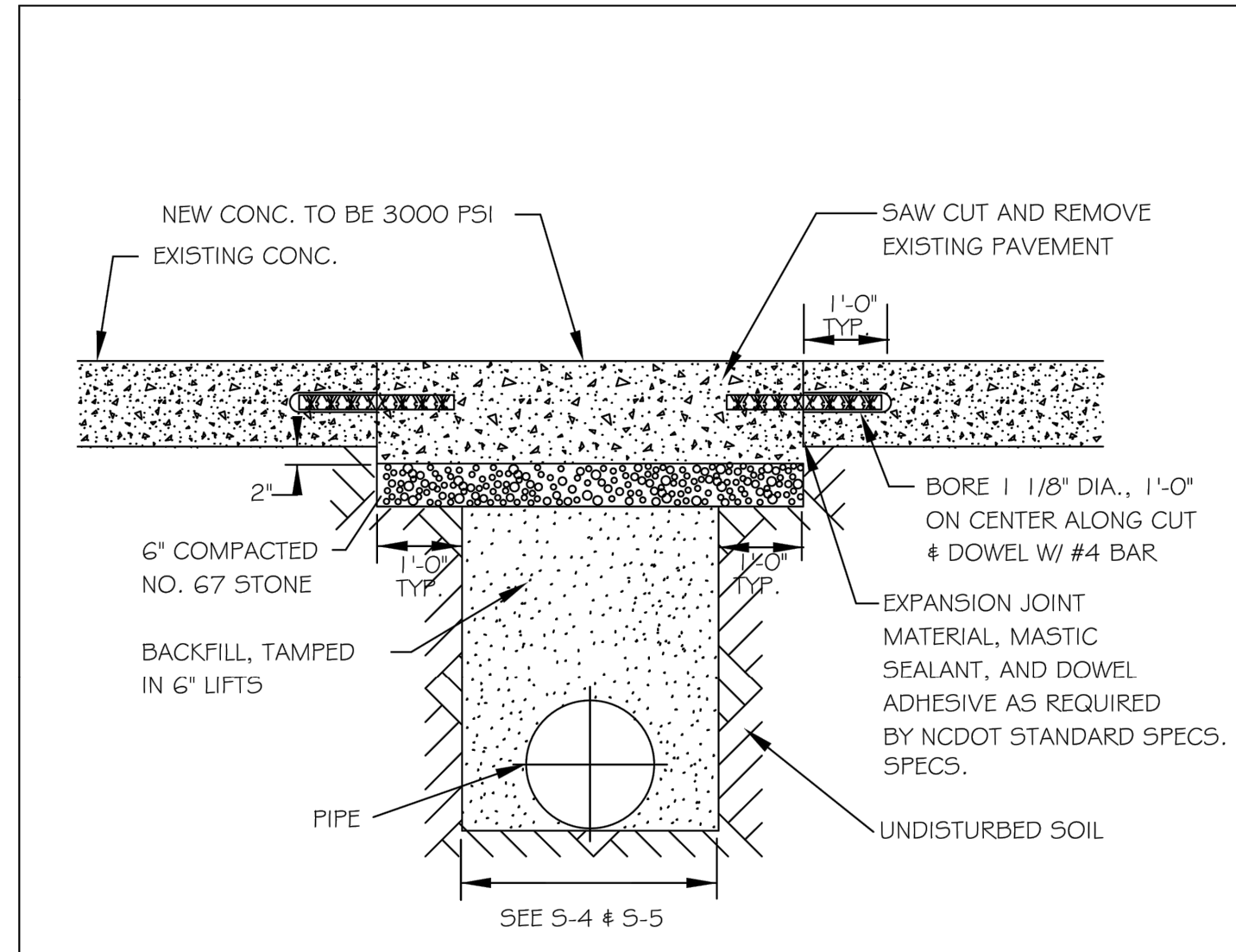


- NOTES:**
- FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
 - NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
 - ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
 - BACKFILL SHALL BE TAMPED IN 6" LIFTS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

BEDDING AND TRENCH
 N.T.S. KHA DETAIL NO: 04.101.R01 XX

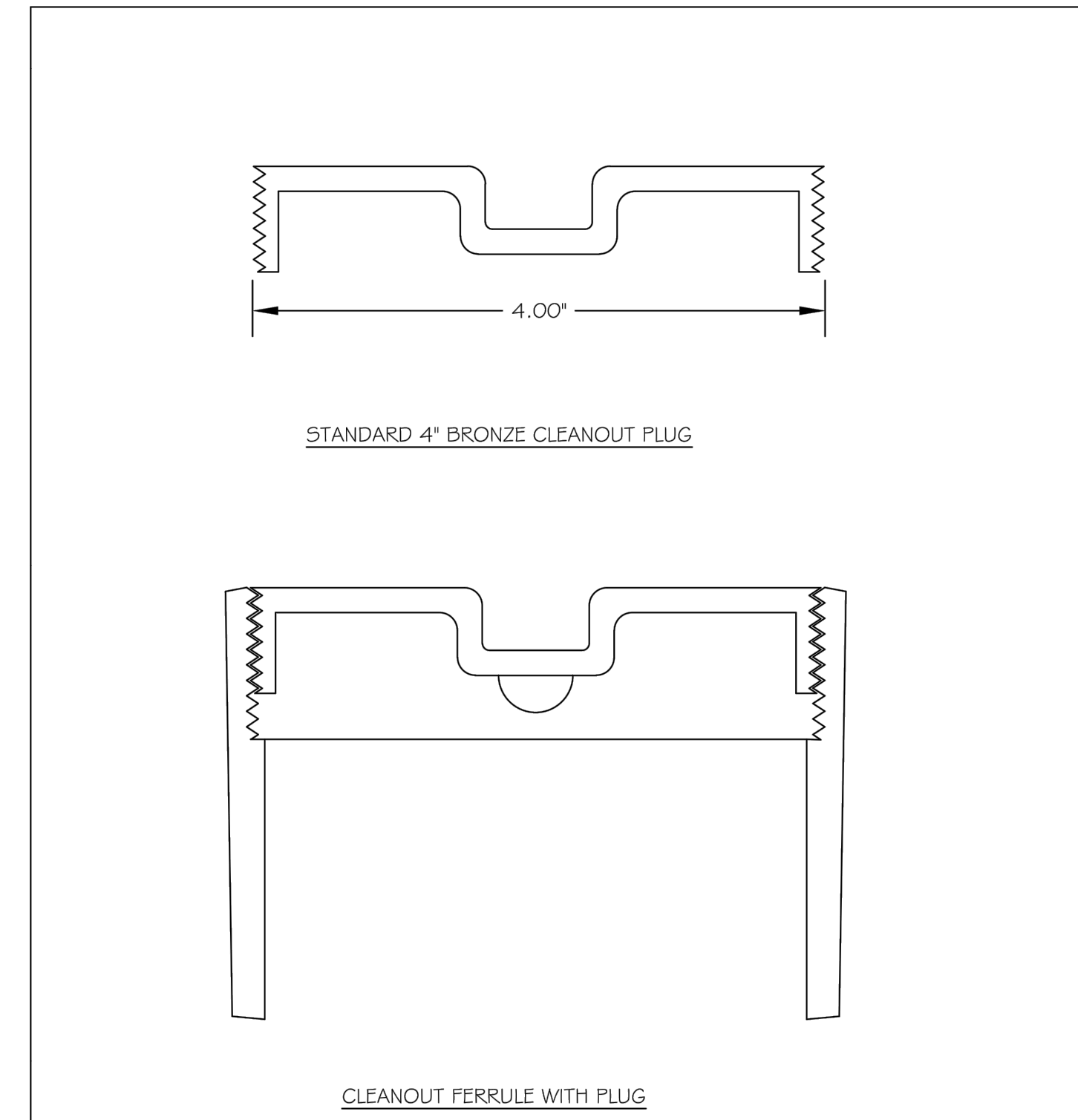


BACKFILL SECTION
 N.T.S. KHA DETAIL NO: 04.102.R01 XX



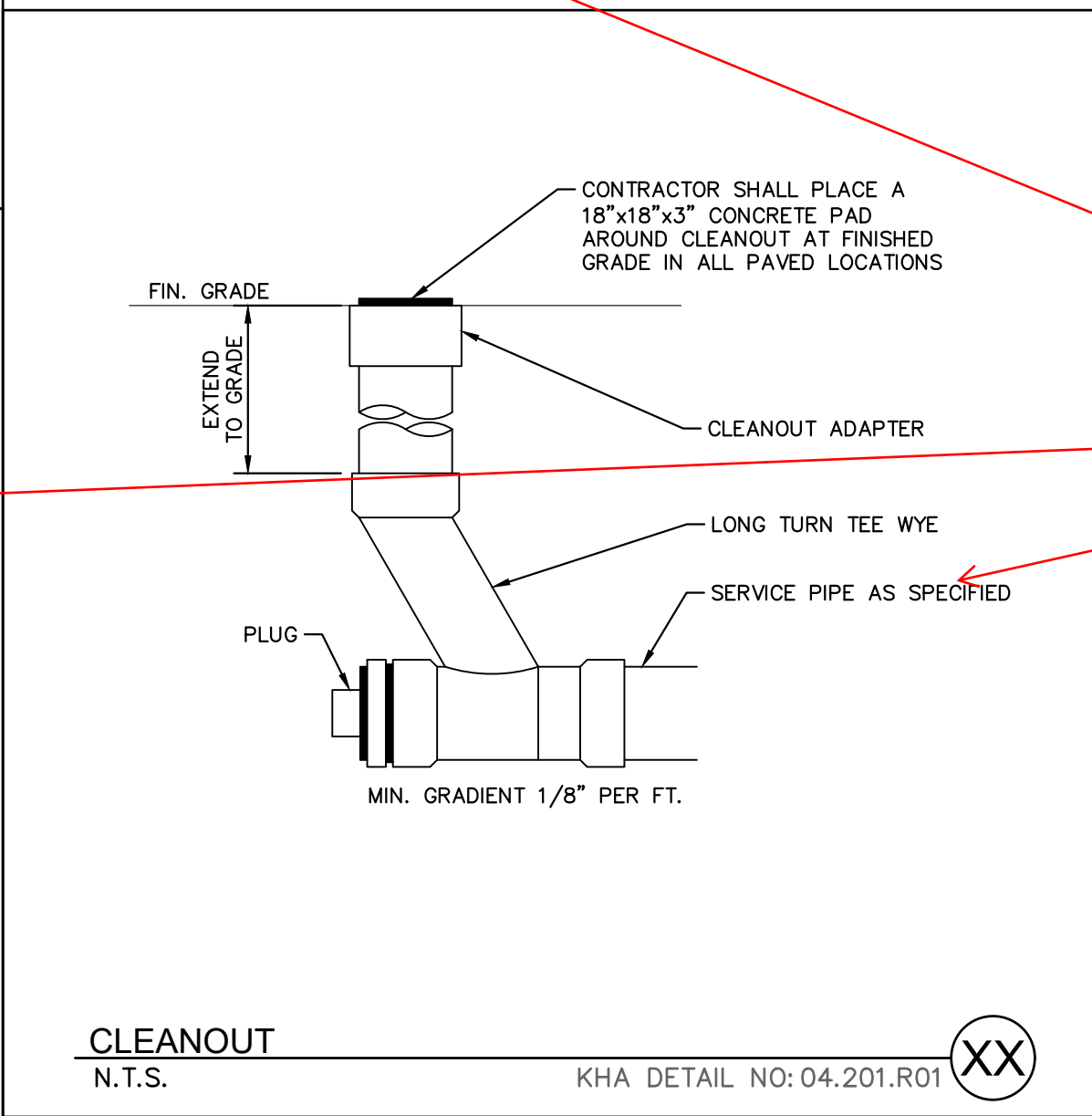
- NOTES:**
- See City of Raleigh standards for trenches and pipe bedding (5-4 & 5-5) for additional details.
 - Pavement cuts over 5'-0" in width shall be reinforced to N.C.D.O.T. standards.
 - Pavement cuts shall be made with an appropriate saw cut machine.
 - Pavement cuts within NCDOT ROW shall conform to the approved on site encroachment permit.

CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES				
STANDARD CONCRETE PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
5-2	D.W.C.	6-23-99	A.B.B.	4-19-04
	RRH	3-30-00	J.P.S	0-8-10



STYLES ACCEPTED:
 INVERTED NUT
 RAISED NUT

CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES				
4\"/>				
5-34	D.W.C.	3-1-87	RRH	3-30-00



CLEANOUT
 N.T.S. KHA DETAIL NO: 04.201.R01 XX

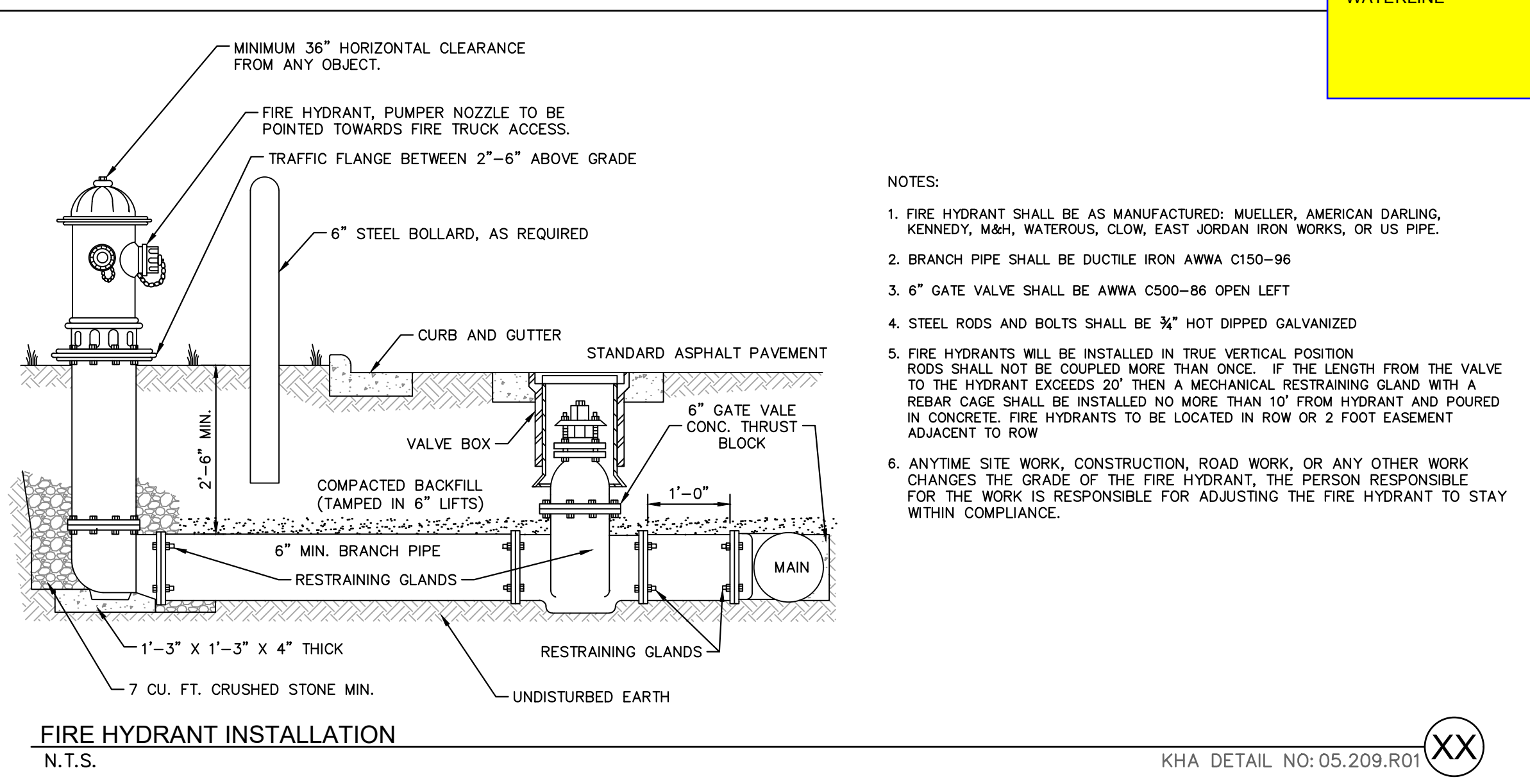
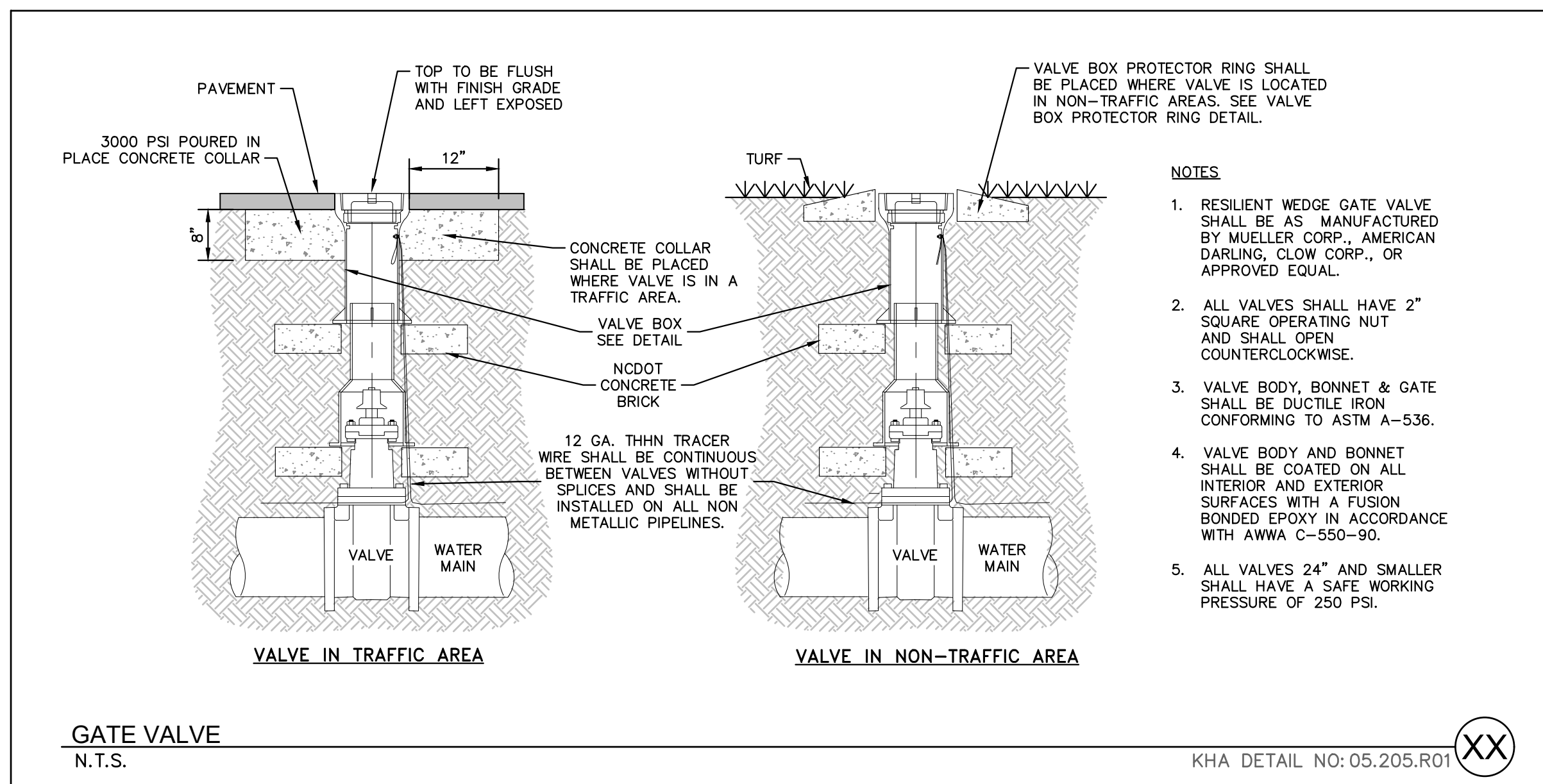
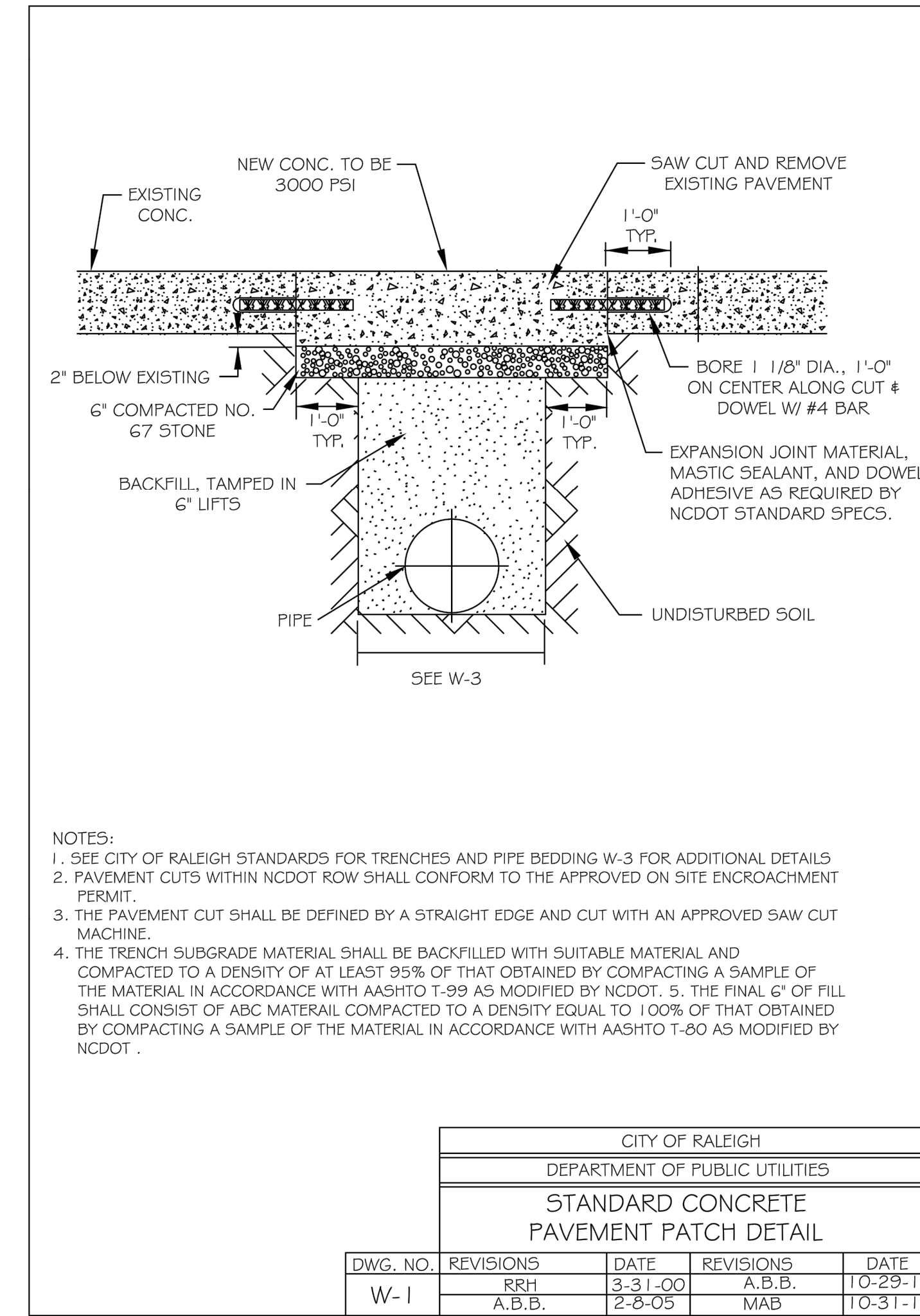
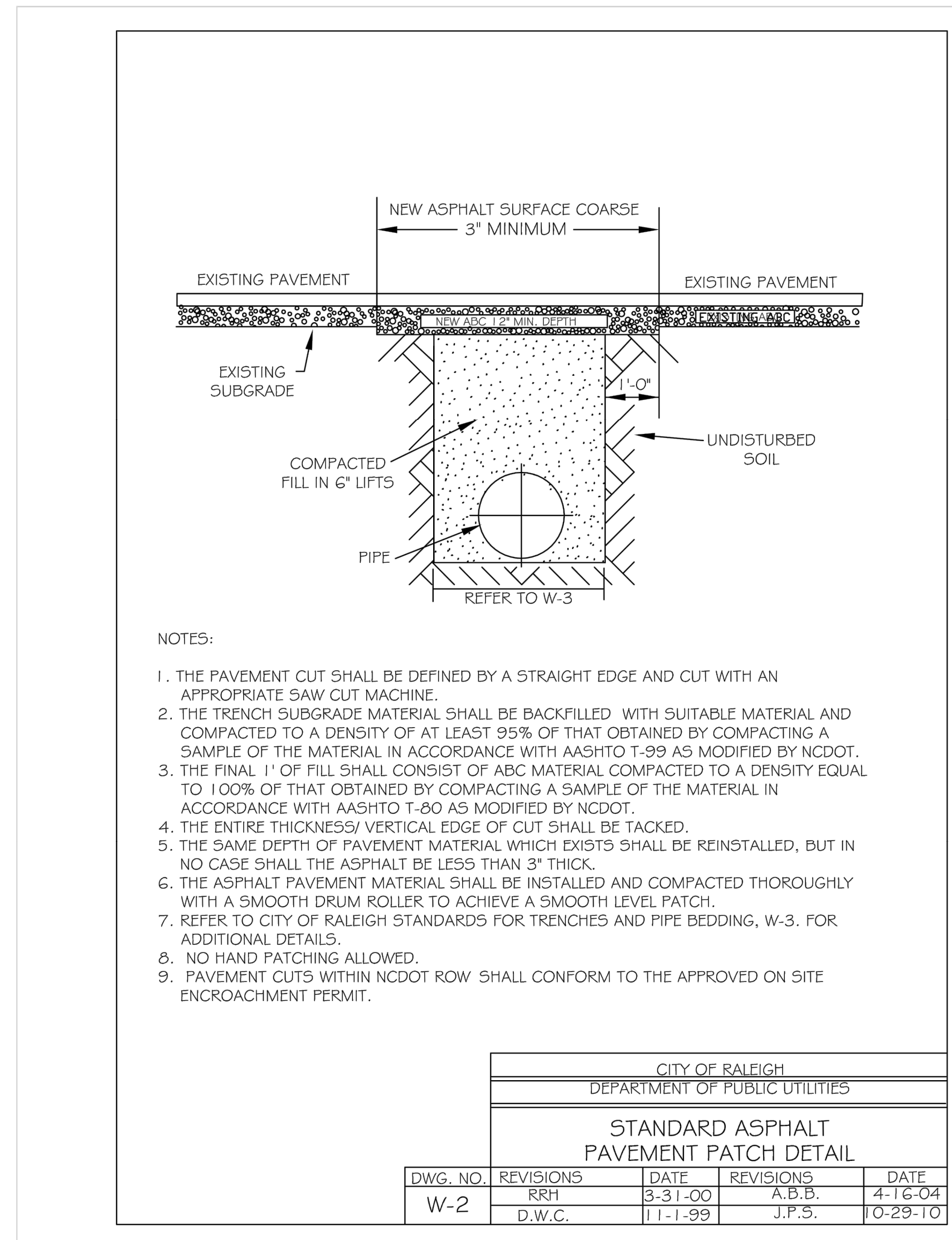
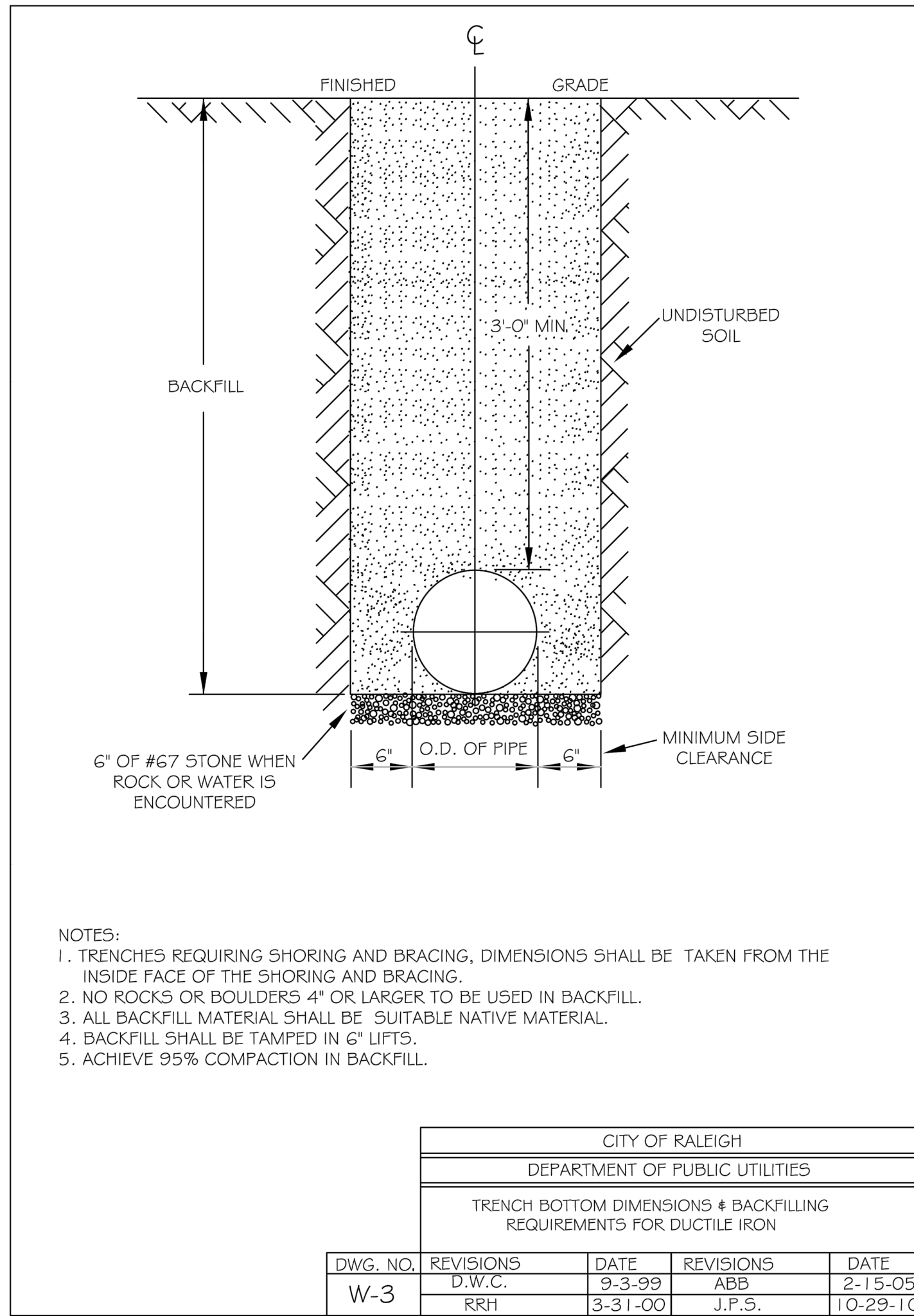
65. USE THE CITY OF RALEIGH STANDARD DETAILS WHEN AVAILABLE FOR SANITARY SEWER WATERLINE

SURVEY NOTE:
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<p>THE LEARNING CENTER ROLESVILLE PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA</p>	<p>Sanitary Sewer Details</p>	<p>Kimley»Horn © 2023 KIMLEY-HORN AND ASSOCIATES, INC. #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601</p>																																							
		<p>NOT FOR CONSTRUCTION</p>																																							
	<p>KHA PROJECT 013031004</p> <p>DATE 09/29/2023</p> <p>SCALE AS SHOWN</p> <p>DESIGNED BY JAA</p> <p>DRAWN BY JAA</p> <p>CHECKED BY COB</p>	<table border="1"> <tr> <th>No.</th> <th>REVISIONS</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	REVISIONS	DATE	BY																																			
No.	REVISIONS	DATE	BY																																						
<p>SHEET NUMBER C10.0</p>																																									

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65. USE THE CITY OF RALEIGH STANDARD DETAILS WHEN AVAILABLE FOR
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 - WATERLINE

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NORTH CAROLINA
PRELIMINARY
NOT FOR CONSTRUCTION

KHA PROJECT 013031004
 DATE 09/29/2023
 SCALE AS SHOWN
 DESIGNED BY JAA
 DRAWN BY JAA
 CHECKED BY COB

REVISIONS
 No.

DATE
 BY

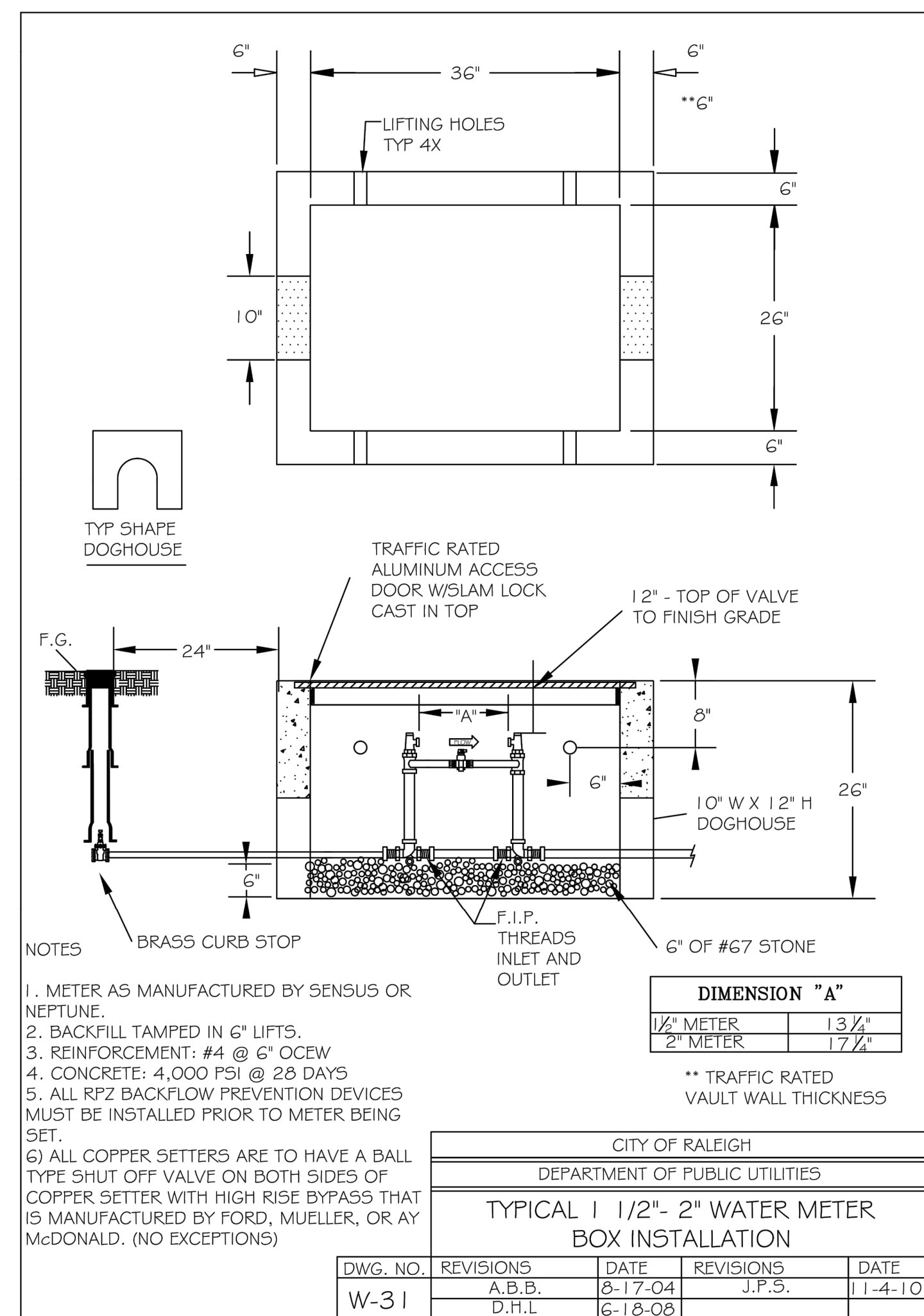
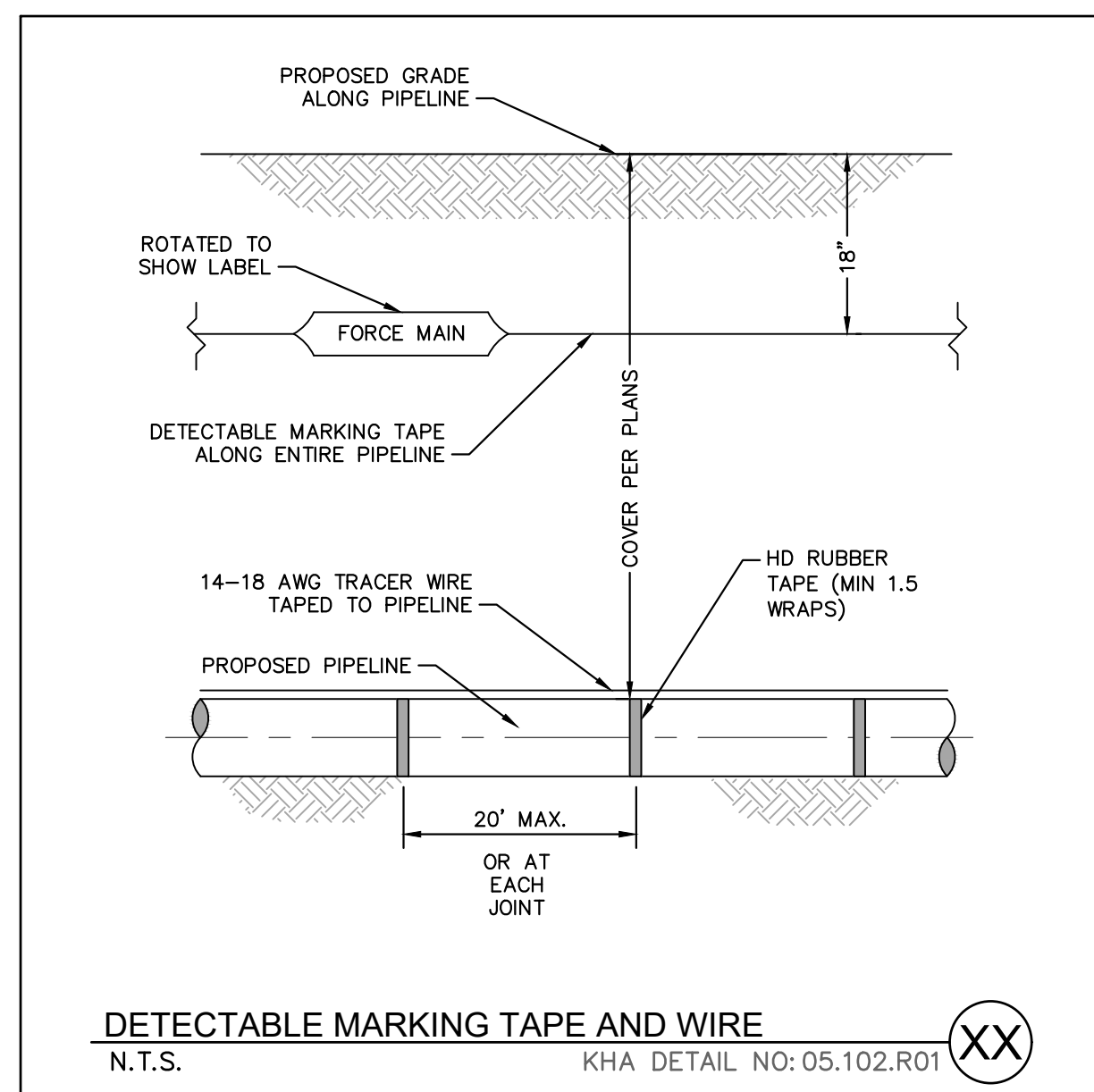
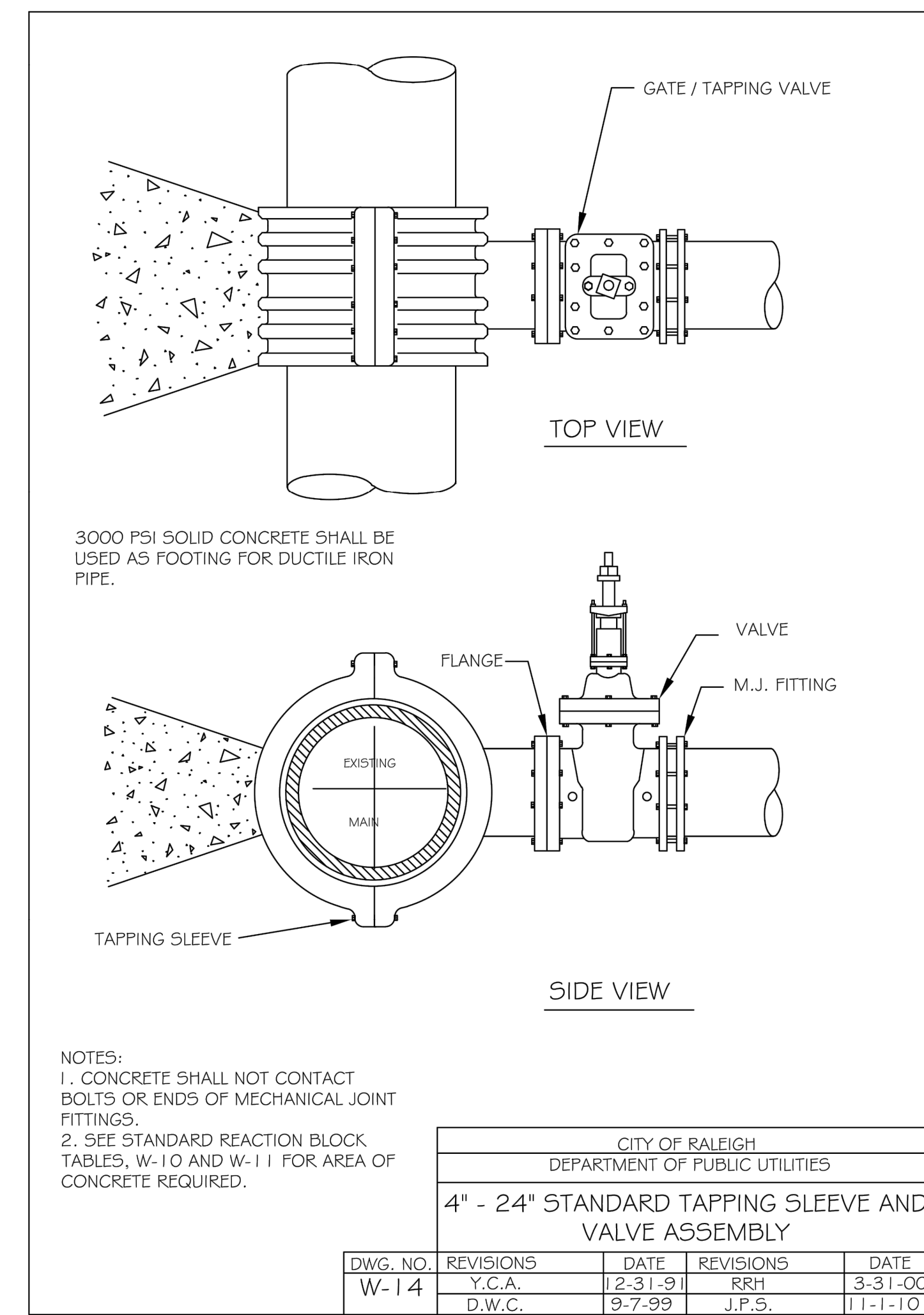
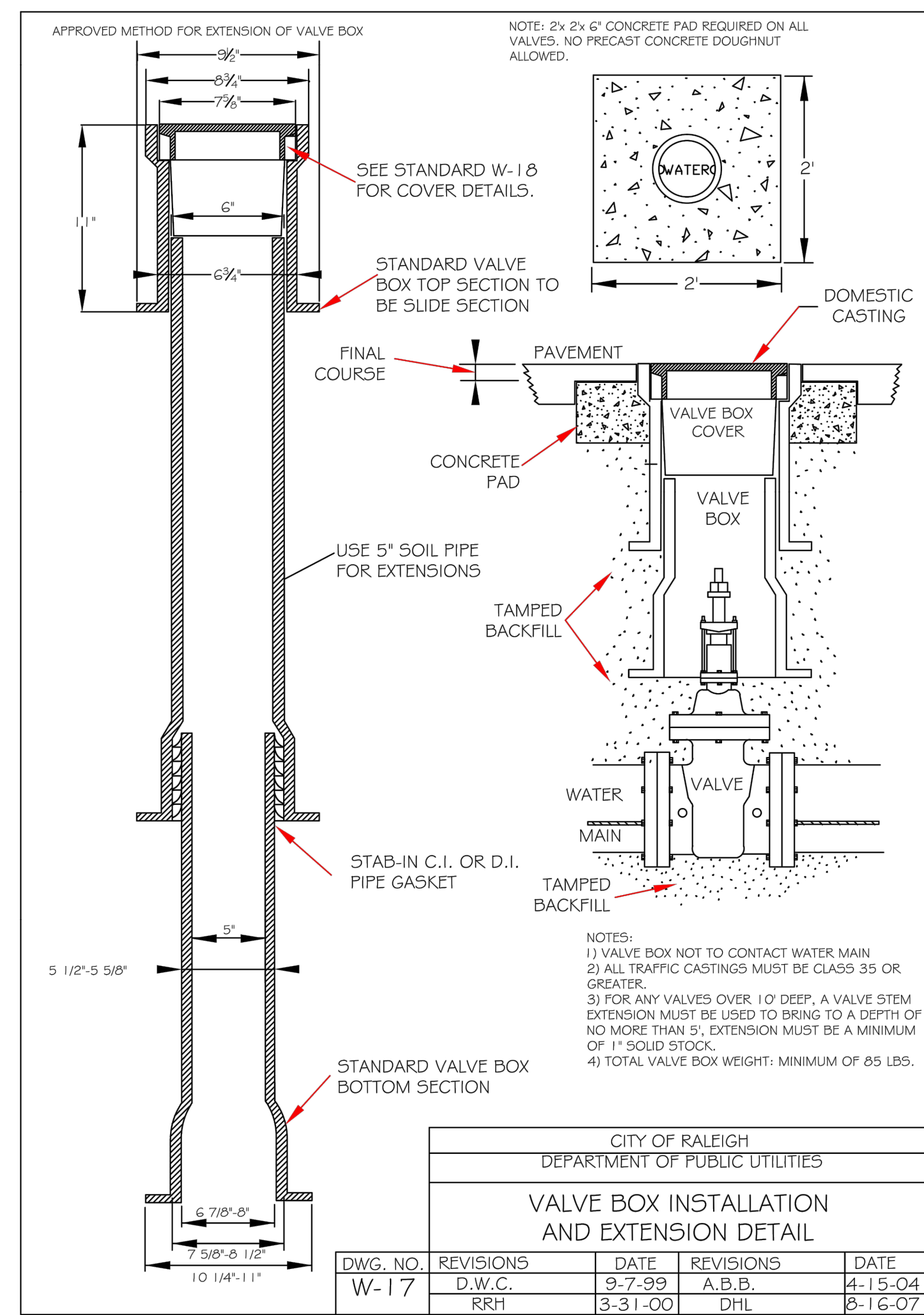
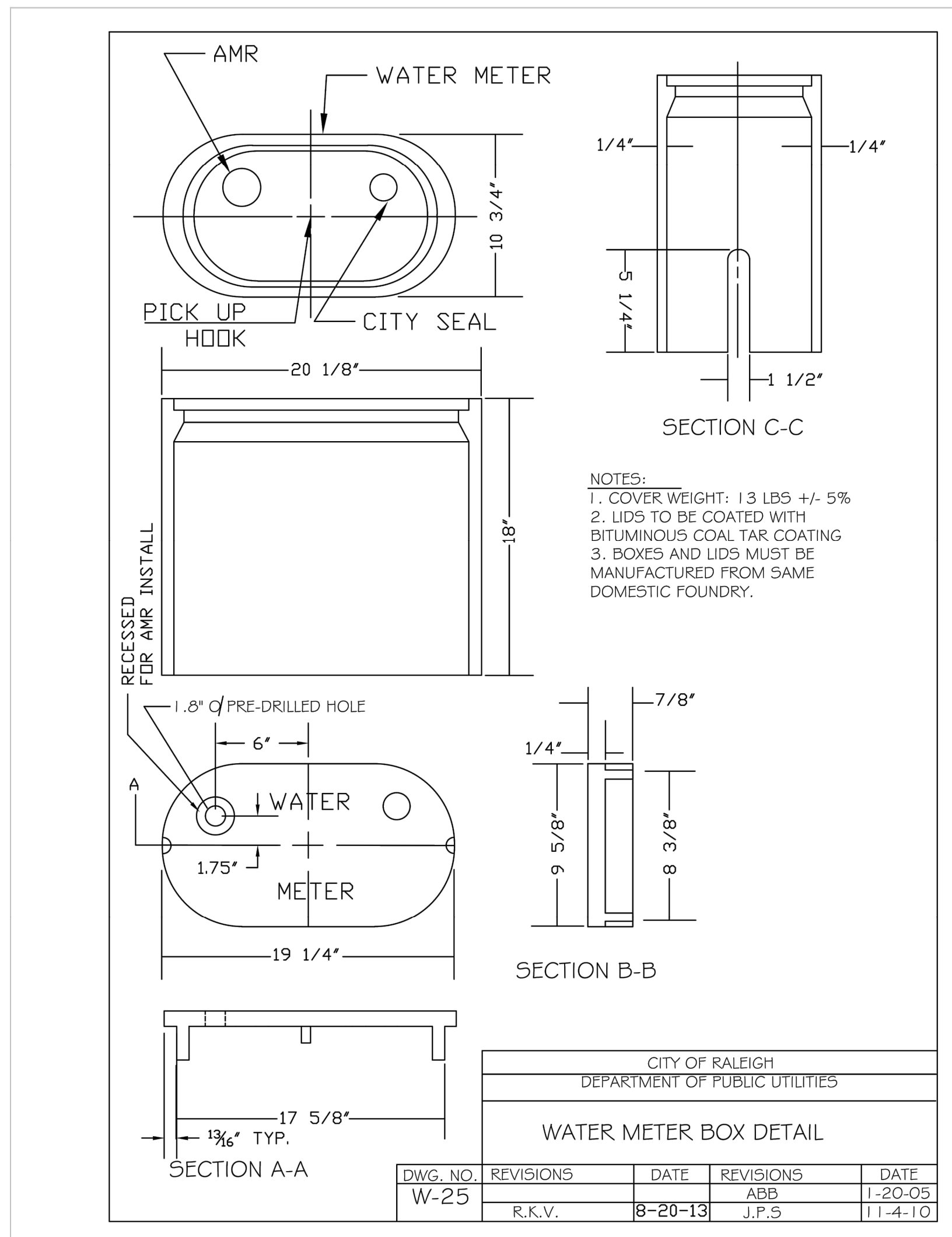
WATER DETAILS

THE LEARNING
 CENTER ROLESVILLE
 PREPARED FOR
 ROLESVILLE, LLC.
 TOWN OF ROLESVILLE
 NORTH CAROLINA

SHEET NUMBER
C11.0



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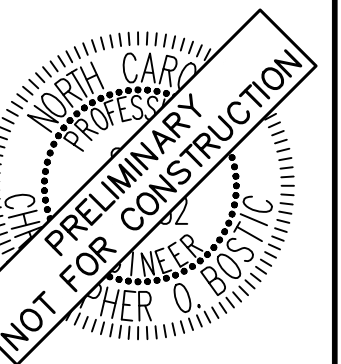
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NO.	REVISIONS	DATE	BY
1			
2			
3			
4			
5			
6			
7			

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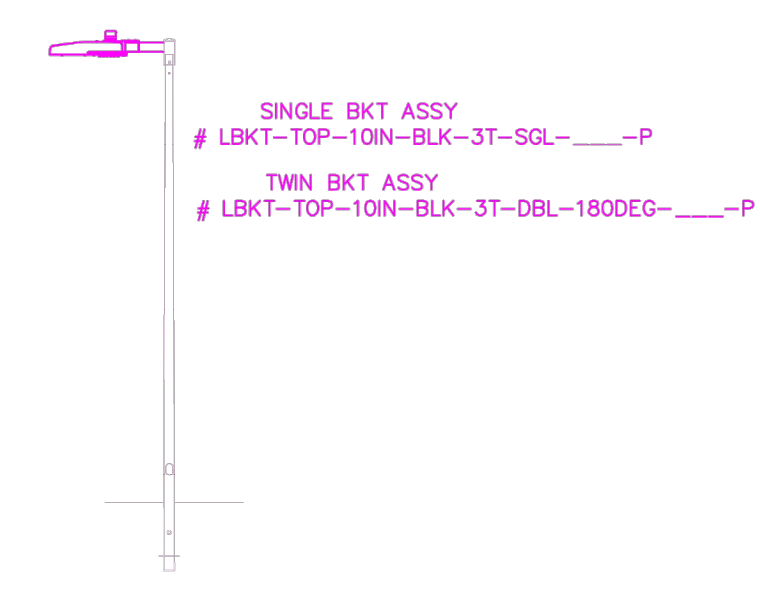
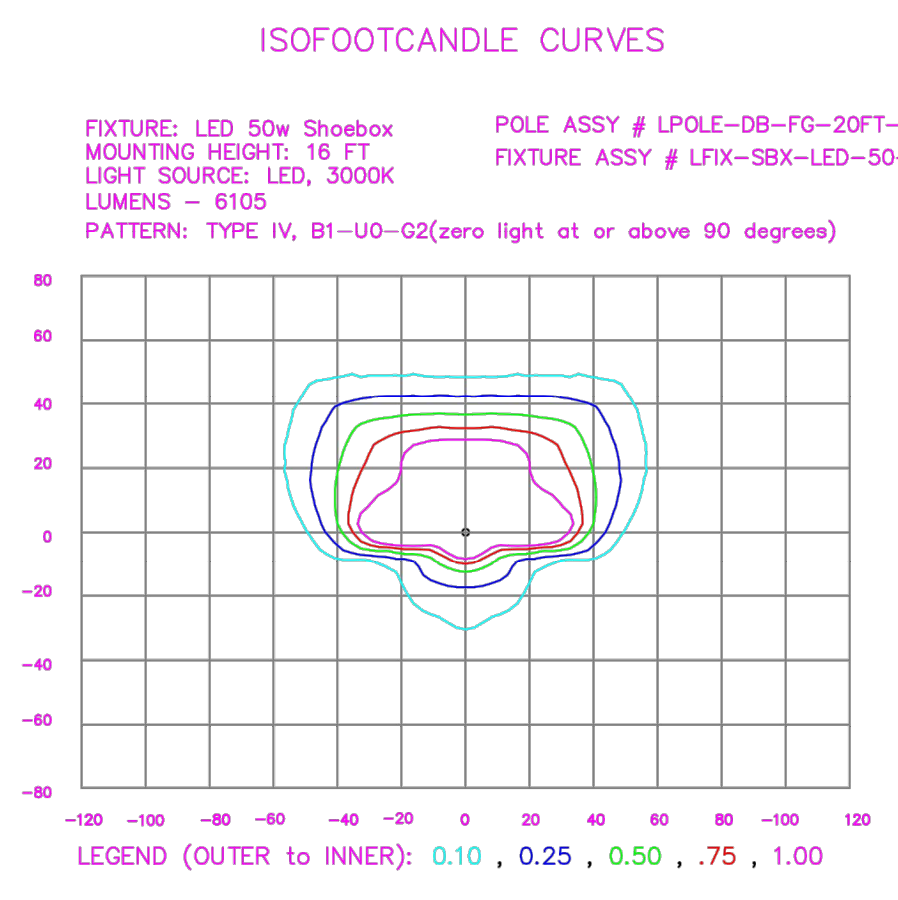
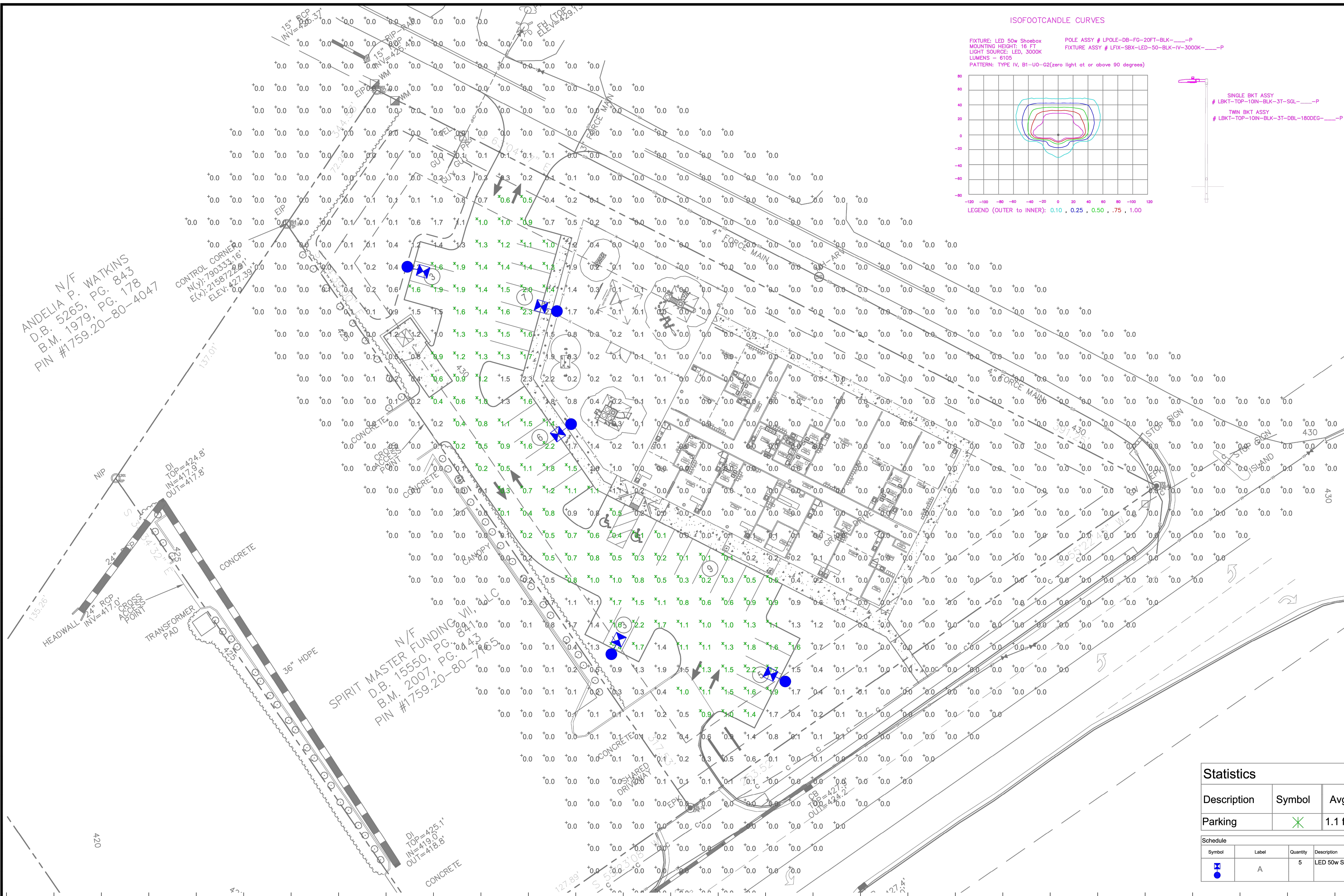


KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
013031004	09/29/2023	AS SHOWN	JAA	JAA	COB

WATER DETAILS

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 NORTH CAROLINA

SHEET NUMBER
C11.1



Outdoor Lighting

PEDESTRIAN SHOEBOX LED
(Meets Dark Sky Criteria)

LED (Light-emitting diode)	50 watts
Mounting height	12' - 17'
Color	Black
Pole	Aluminum Flangeless Concrete Decorative Aluminum
Applications	Neighborhoods Parks Shopping centers

Light source: LED (Aria)
Wattage: 50 watts
Lumens: 6,105 (1.4xLSF)
Light pattern: IESNA Type IV
IESNA cutoff classification: Full cutoff
BUG rating: Type IV - B1 U0G2
Color temperature: 3,000K (1.4,000K)

POLE AVAILABLE	MOUNTING HEIGHT	COLOR
Aluminum	12', 15', 17'	Black
Flangeless	16'	Black
Flush Concrete	13'	Black
Decorative Aluminum	12', 16'	Black

FEATURES	BENEFITS
Touchless operation	Provides hands-free installation and service
Little or no installation cost	Free up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance, electricity & warranty included	Eliminates high and unexpected repair bills
One low monthly cost on your electric bill	Convenience and savings for you

For additional information, contact us at GOLC@dukeenergy.com.

ANDELIA N/F
D.B. 5265, PG. 843
B.M. 1979, PG. 178
PIN #1759.20-80-4047

CONTROL CORNER
N(X): 790353.16'
E(X): 258722.88'
ELEV.: 427.39'

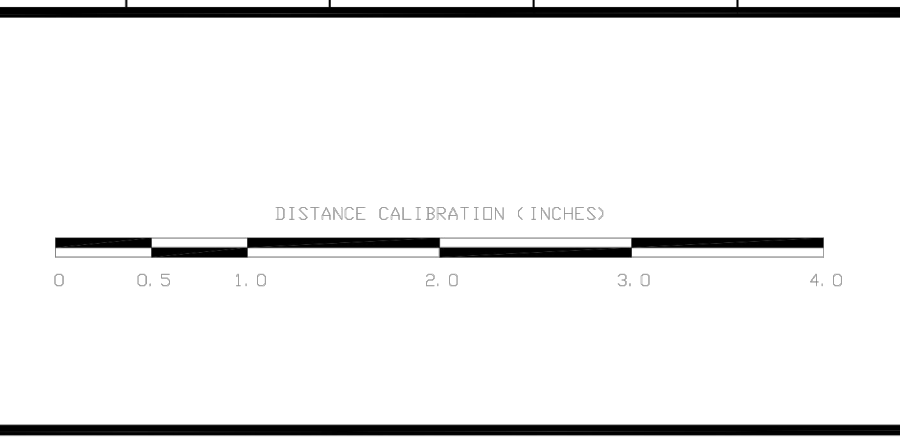
SPIRIT MASTER FUNDING VII, LLC
D.B. 15550, PG. 841
B.M. 2007, PG. 443
PIN #1759.20-80-74635

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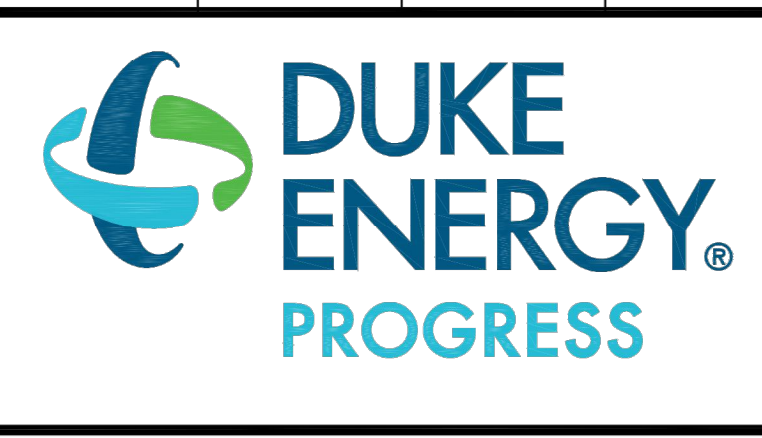
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking	X	1.1 fc	2.4 fc	0.1 fc	24.0:1	11.0:1

Schedule						
Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
Blue circle with 'A'	A	5	LED 50w Shoebox - Type IV - 3000K	16	382	0.85

NO.	DATE	REVISION	BY



LIGHTING DESIGN TOLERANCE
The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

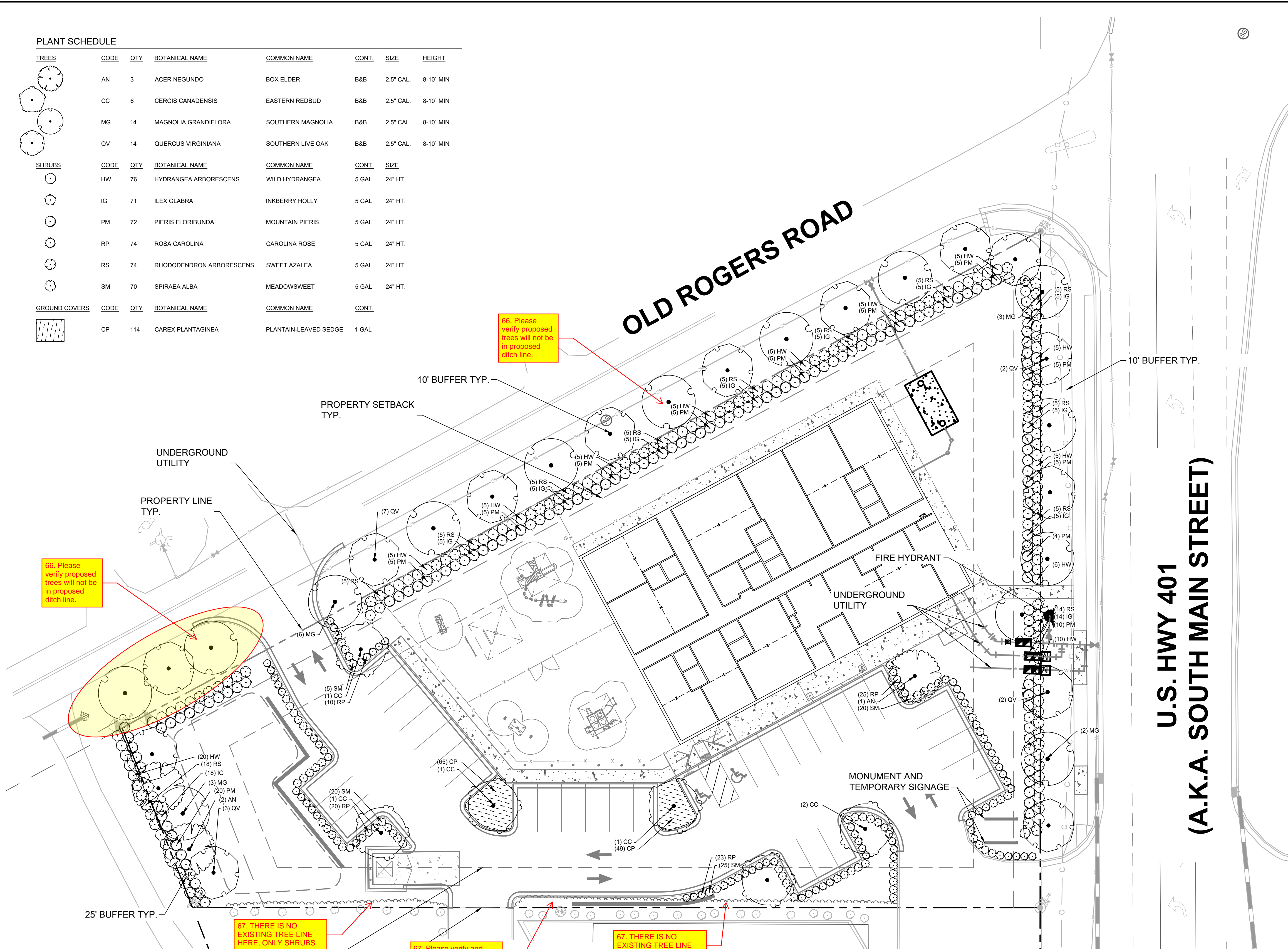
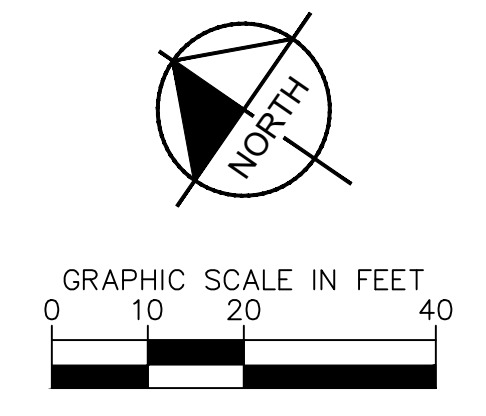


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ROLESVILLE LEARNING CENTER Rolesville, NC	
SITE LIGHTING ARRANGEMENT	
Designed by	DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by	N. Johnson
Date	09/25/2023
Description	LED Pedestrian Shoebox
Drawing No.	23-0400A
Sht.	1 OF 1

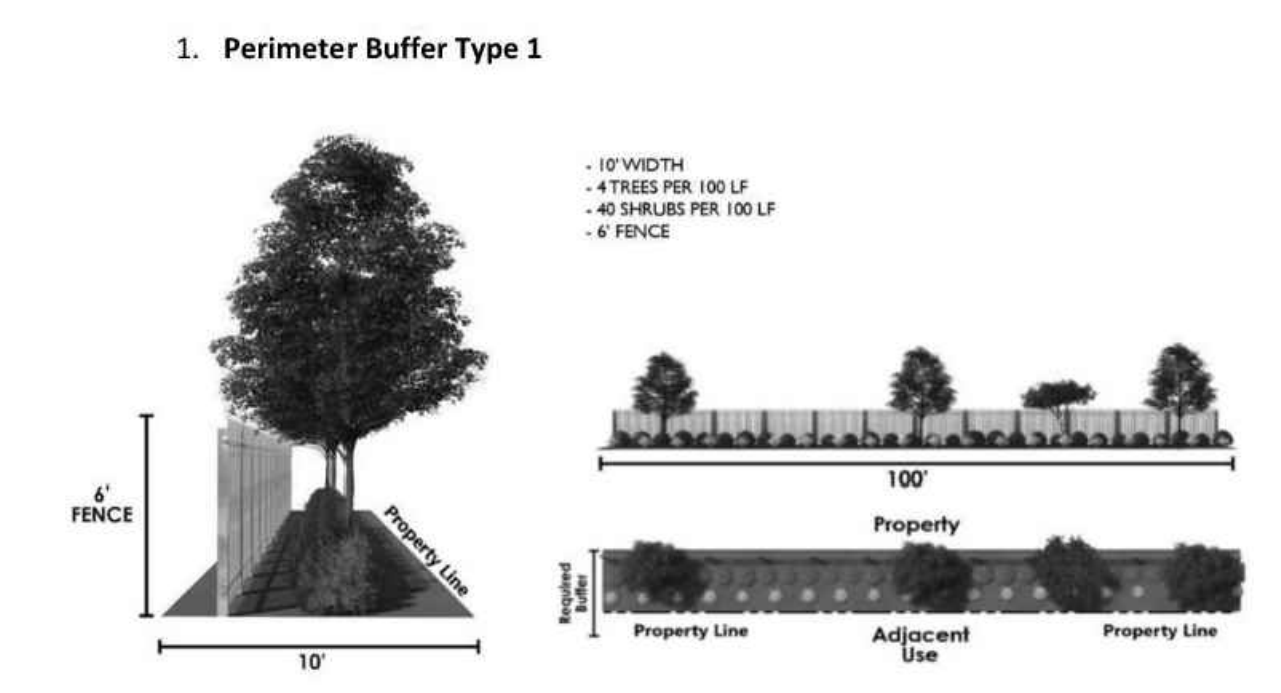
Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: L1.0 LANDSCAPE PLAN, October 02, 2023 02:44:11pm K:\REAL_LDEV\013031004_Rolesville_Layout_L1.0 LANDSCAPE PLAN.dwg
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PLANT SCHEDULE							
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	HEIGHT
	AN	3	ACER NEGUNDO	BOX ELDER	B&B	2.5" CAL.	8-10' MIN
	CC	6	CERCIS CANADENSIS	EASTERN REDBUD	B&B	2.5" CAL.	8-10' MIN
	MG	14	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	B&B	2.5" CAL.	8-10' MIN
	QV	14	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	B&B	2.5" CAL.	8-10' MIN
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	
	HW	76	HYDRANGEA ARBORESCENS	WILD HYDRANGEA	5 GAL	24" HT.	
	IG	71	ILEX GLABRA	INKBERRY HOLLY	5 GAL	24" HT.	
	PM	72	PIERIS FLORIBUNDA	MOUNTAIN PIERIS	5 GAL	24" HT.	
	RP	74	ROSA CAROLINA	CAROLINA ROSE	5 GAL	24" HT.	
	RS	74	RHODODENDRON ARBORESCENS	SWEET AZALEA	5 GAL	24" HT.	
	SM	70	SPIRAEA ALBA	MEADOWSWEET	5 GAL	24" HT.	
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.		
	CP	114	CAREX PLANTAGINEA	PLANTAIN-LEAVED SEDGE	1 GAL		

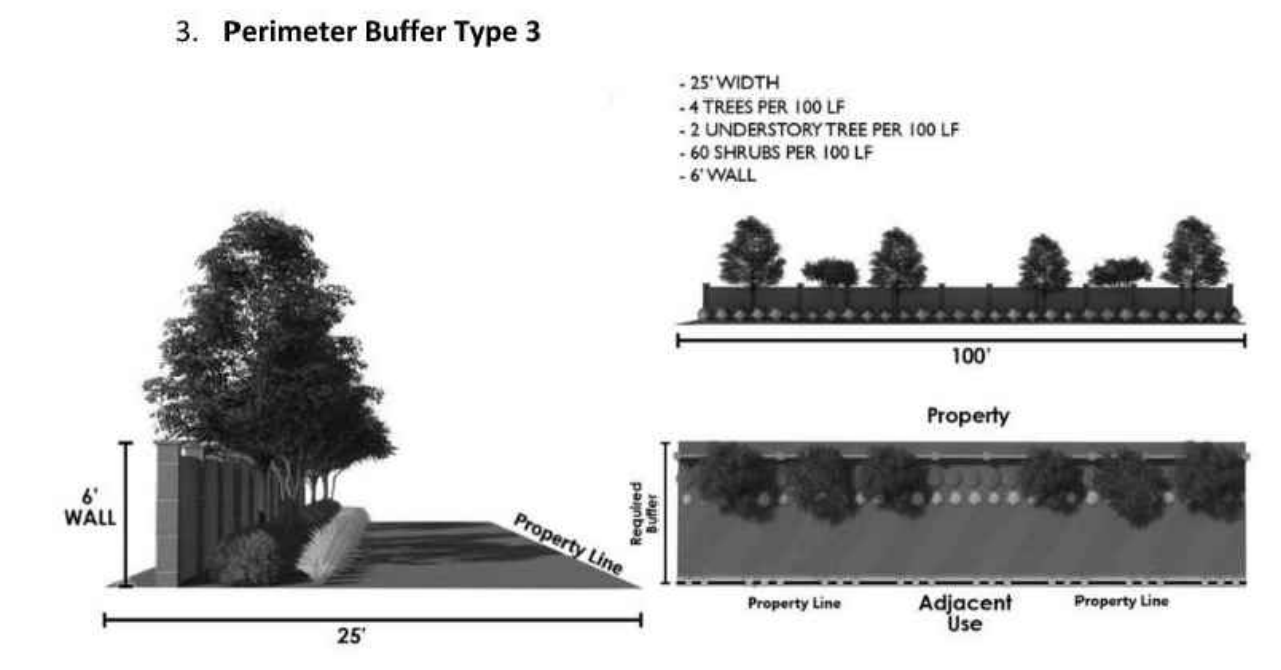


ROLESVILLE LAND DEVELOPMENT ORDINANCE

F. Perimeter Buffer Types. The following images show an example of buffer types defined in Table 6.2.2.1.



ROLESVILLE LAND DEVELOPMENT ORDINANCE



LANDSCAPE REQUIREMENTS & CALCULATIONS

AREA TO BE LANDSCAPED	CODE REQUIREMENT	LOCATION	MEASUREMENT	QUANTITY REQUIRED	TOTAL QUANTITY PROVIDED	CODE SECTION
TYPE 1 BUFFER (10' WIDE)	4 CANOPY TREE PER 100 LF	NORTH - OLD ROGERS ROAD	*332 LF	(332 / 100) X 4 = 14 CANOPY TREES	14 CANOPY TREES	SECTION 6.2.2
		EAST - US HWY 401	*256 LF	(256 / 100) X 4 = 10 CANOPY TREES	10 CANOPY TREES	SECTION 6.2.2
TYPE 3 BUFFER (25' WIDE)	4 CANOPY TREES PER 100 LF 2 UNDERSTORY TREES PER 100 LF	WEST	*92 LF	(92 / 100) X 4 = 4 UNDERSTORY TREES	4 CANOPY TREES	SECTION 6.2.2
		WEST	*92 LF	(92 / 100) X 2 = 2 UNDERSTORY TREES	2 UNDERSTORY TREES	SECTION 6.2.2
PARKING LOT	1 LARGE OR 1 MEDIUM CANOPY TREE PER PARKING ISLAND	PARKING LOT		(2 X 1) = 2 CANOPY TREES	7 CANOPY TREES	SECTION 6.2.4

*NOTE: PER CODE SECTION 6.2.4, PARKING PERIMETER PLANTINGS SHALL CONSIST OF A SINGLE CONTINUOUS ROW OF SHRUBS PLANTED NO GREATER THAN THREE (3) FEET ON-CENTER AND WITHIN FIVE (5) FEET OF THE PARKING LOT EDGE. SHRUBS USED FOR PARKING PERIMETER PLANTING SHALL BE OF A MINIMUM HEIGHT OF THIRTY (30) INCHES ABOVE GRADE WITHIN THREE YEARS OF PLANTING. SHRUBS MAY NOT EXCEED A HEIGHT OF FOUR (4) FEET AND SHALL BE PRUNED AND MAINTAINED.

*NOTE: ALL LINEAR FOOT MEASUREMENTS EXCLUDE DRIVEWAY WIDTHS AS APPLICABLE

NO.	REVISIONS	DATE	BY
1			
2			
3			
4			
5			
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7			

Kimley»Horn

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 #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050
 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601

THE LEARNING CENTER ROLESVILLE

SCALE AS SHOWN
 DESIGNED BY JAA
 DRAWN BY JAA
 CHECKED BY COE

LANDSCAPE PLAN

THE LEARNING CENTER ROLESVILLE

PREPARED FOR
ROLESVILLE, LLC.

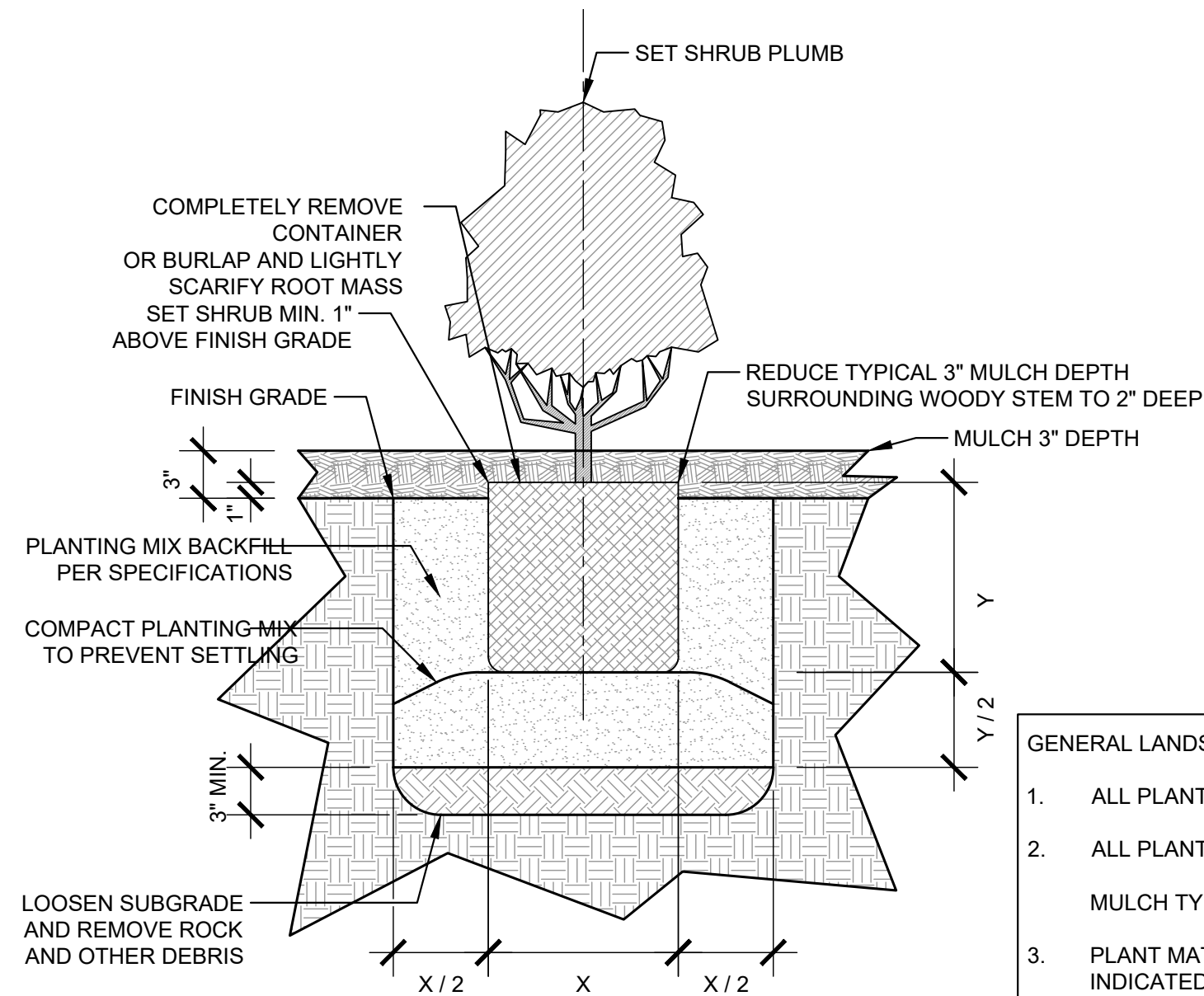
TOWN OF ROLESVILLE
 NORTH CAROLINA

SHEET NUMBER
L1.0



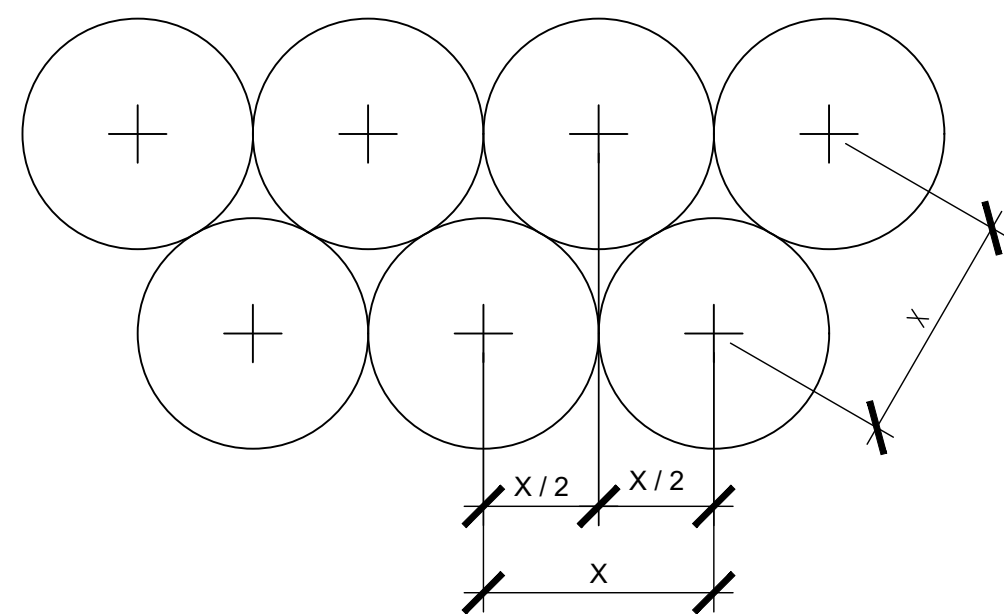
SURVEY NOTE:
 EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CIMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, NC 27588. PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE Layout: L2.LANDSCAPE DETAILS October 02, 2023 02:44:22pm K:\RAL_LDEV\013031004_Rolesville Learning_Center\PI.D CAD Files\PlanSheets\L2.LANDSCAPE DETAILS.dwg
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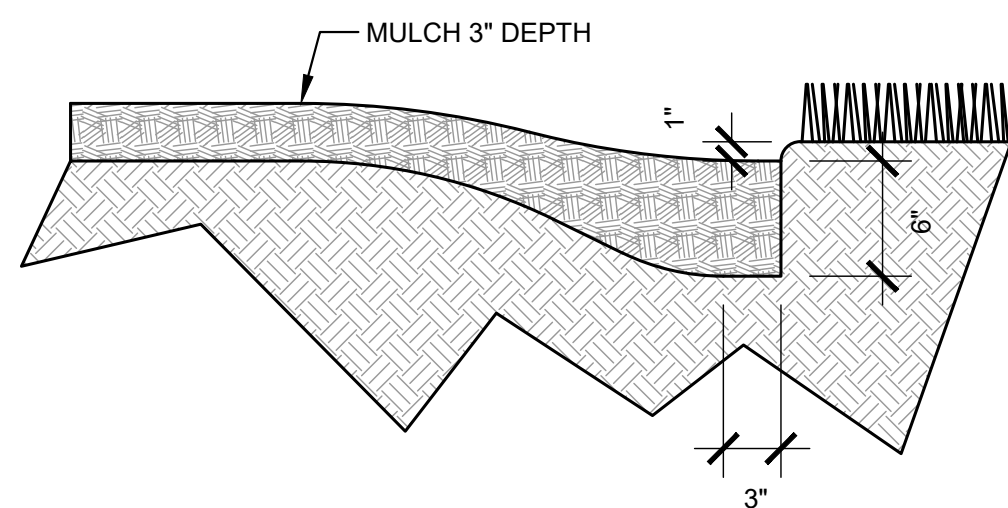
1
 LS-2
TYPICAL SHRUB PLANTING
 SECTION
 SCALE: 1"=1'-0"

- GENERAL LANDSCAPE NOTES:**
- ALL PLANT MATERIAL PRICING SHALL INCLUDE MULCH, BED PREPARATION, AND STAKING.
 - ALL PLANTING BEDS SHALL RECEIVE 3" (THREE INCHES) OF MULCH.
MULCH TYPE FOR PROJECT: DOUBLE SHREDDED HARDWOOD
 - PLANT MATERIAL SPACING SHOWN ON LANDSCAPE PLANS SHALL OVERRIDE TYPICAL PLANT SPACING INDICATED ON PLANT SCHEDULE. LANDSCAPE CONTRACTOR RESPONSIBLE FOR VERIFYING ALL PLANT SPACING AND MAKING MINOR FIELD ADJUSTMENTS DUE TO UTILITY CONFLICTS.



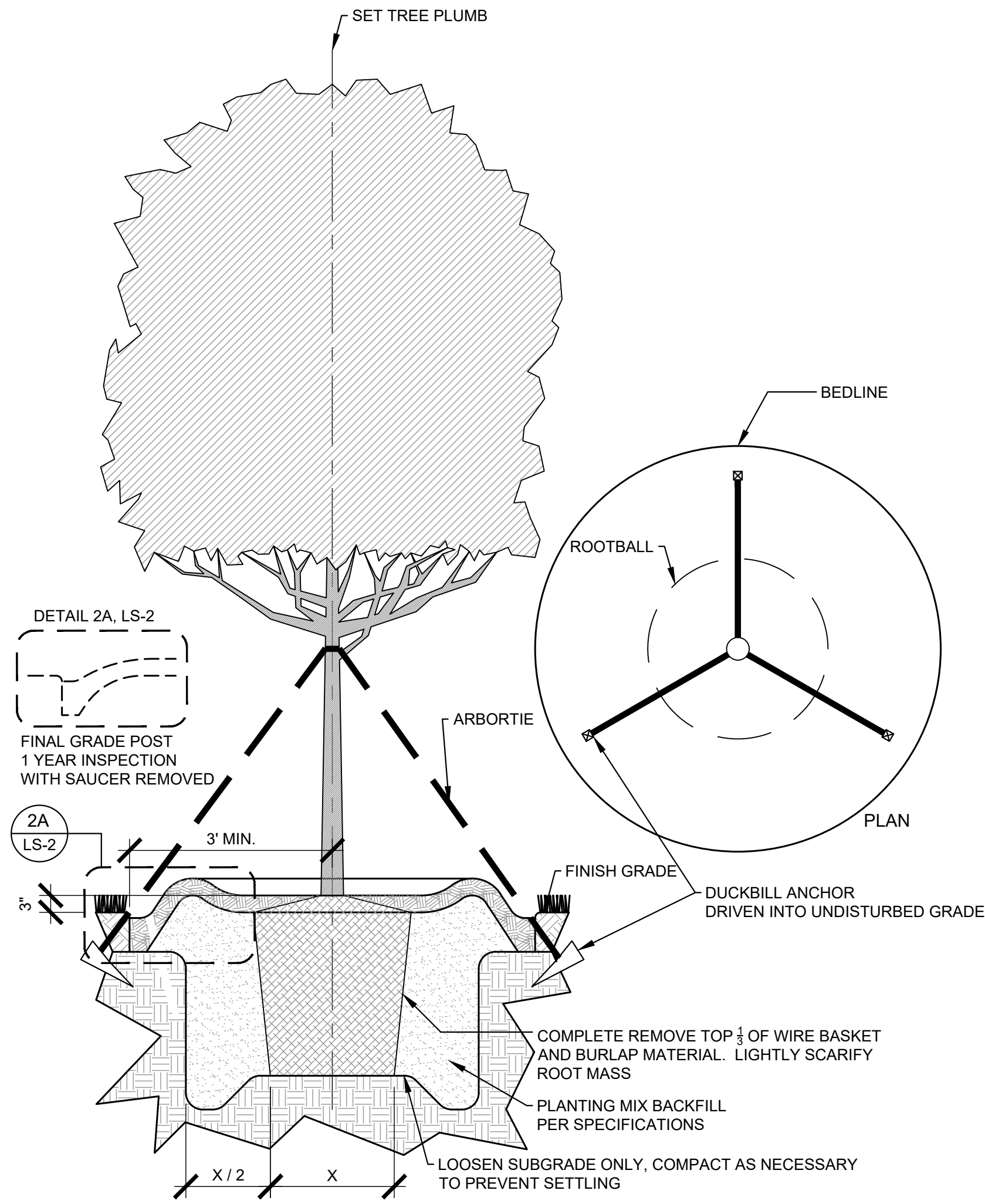
- PLANT SPACING NOTES:**
- SEE PLANTING PLAN FOR SHRUB AND GROUND COVER AREAS.
 - PLANT MATERIAL SHALL BE INSTALLED IN STRAIGHT AND PARALLEL ROWS UNLESS OTHERWISE SHOWN ON DRAWINGS.
 - SEE PLANTING PLAN AND / OR PLANT SCHEDULE FOR ACTUAL PLANT SPACING.

2
 LS-2
TYPICAL STAGGERED ROW PLANT SPACING
 PLAN
 SCALE: 1/2"=1'-0"



- PLANTING BED TRENCH EDGING NOTE:**
- TRENCH EDGE SHALL BE LOCATED BETWEEN PLANTING BED AND ALL TURF OR NATIVE GRASS AREAS.
 - TRENCH EDGE SHALL BE CONSTRUCTED ALONG ALL HARDSCAPE AREAS FOR SIMILAR CONDITION.
 - MAINTAIN POSITIVE DRAINAGE IN ALL PLANTING BEDS.

3
 LS-2
PLANTING BED TRENCH EDGING
 SECTION
 SCALE: 1"=1'-0"



- TREE PLANTING NOTES:**
- 4"-6" DIAMETER RIVER ROCK (INSIDE THE BUILDING PAD) OR 3" MINIMUM OF HARDWOOD BARK MULCH OR AS SPECIFIED (IN OUTLYING PLANT BEDS) (MULCH TYPE FOR PROJECT: SHREDDED CYPRESS MULCH)
 - TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE
 - ROOTBALLS GREATER THEN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THEN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.

4
 LS-2
TYPICAL TREE PLANTING & GUYING
 PLAN & SECTION
 SCALE: 1/2"=1'-0"

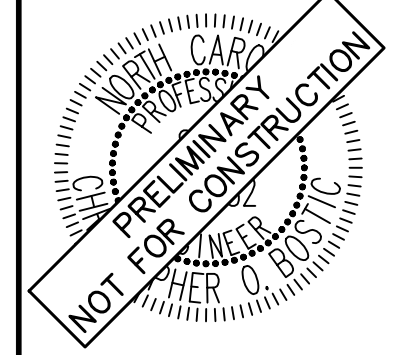
GENERAL LANDSCAPE NOTES:

- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
- ALL TREES MUST HAVE A STRAIGHT TRUNK AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
- ALL SHADE TREES LOCATED WITHIN VEHICLE SIGHT TRIANGLES SHALL BE BRANCHED MIN. 8' (MEASURED FROM ADJACENT PROJECTED CURB LINE ELEVATION) PER ANSI Z60.1 STANDARDS FOR HEIGHT OF BRANCHING - STREET TREES.
- ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF WAKE COUNTY INSPECTOR AND ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO PLANTING.
- THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF THE PLANTING AREAS AND LAWN UNTIL SUBSTANTIAL COMPLETION.
- CONTRACTOR SHALL INSTALL AND MAINTAIN TWO (2) GATORBAGS PER LARGE CANOPY TREE
- THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF TWO (2) YEAR BEGINNING ON THE DATE OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
- LANDSCAPE ARCHITECT SHALL APPROVE ALL BED LAYOUT STAKING PRIOR TO INSTALLATION OF PLANT MATERIAL.
- THE LANDSCAPE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL TREES PRIOR TO INSTALLATION.
- AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO SUBSTANTIAL COMPLETION OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT SCHEDULE SPECIFICATIONS.
- STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
- ALL SHRUB, GROUND COVER AND SEASONAL COLOR ANNUAL PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH DOUBLE SHREDDED HARDWOOD OR CURRENT CITY STANDARD TO A DEPTH OF THREE (3) INCHES.
- LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
- SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
- ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
- THE TOP OF ALL ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE, AS BORN TO PREVIOUS GRADE AND GROWING CONDITIONS.
- ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
- ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM ROOT BALL.
- FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE COMPACTED SOIL AND ADD 24" NEW TOPSOIL OR UNCOMPACT AND AMEND THE TOP 24" OF EXISTING SOIL TO MEET TOPSOIL PLANTING MIX STANDARDS FOR TREES. SEE DETAILS THIS SHEET.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TREES AND SHRUBS THAT WILL MEET BOTH MINIMUM SIZE AND SPACING FOR TREE AND ZONING ORDINANCE COMPLIANCE. FAILURE TO INSTALL PLANT MATERIAL PER THIS PLAN WILL JEOPARDIZE ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING INSPECTIONS OF PLANT MATERIAL.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES & ORDINANCES REGARDING LANDSCAPING. GENERAL CONTRACTOR IS TO CLEAN THE ENTIRE SITE OF ALL CONSTRUCTION DEBRIS AND TO RAKE ENTIRE SITE.
- THE CONTRACTOR SHALL INSTALL BLACK FABRIC MESH UNDER PLANTING BED MULCH TO PREVENT WEED GROWTH.
- EACH LARGE CANOPY TREE AT THE TIME OF PLANTING SHALL BE A MINIMUM OF TWO (2) INCHES IN CALIPER AND EIGHT (8) - TEN (10) FEET IN HEIGHT. WHEN MATURE, A LARGE CANOPY TREE SHOULD BE AT LEAST FORTY (40) FEET HIGH AND HAVE A MINIMUM CROWN WIDTH OF THIRTY (30) FEET. LARGE CANOPY TREES MAY BE SUBSTITUTED WITH TWO (2) UNDERSTORY TREES. HOWEVER, NO MORE THAN FIFTY (50) PERCENT OF THE REQUIRED LARGE CANOPY TREES MAY BE SUBSTITUTED. EACH UNDERSTORY TREE AT THE TIME OF PLANTING SHALL BE A MINIMUM OF ONE (1) INCH IN CALIPER AND EIGHT (8) FEET IN HEIGHT. WHEN MATURE, AN UNDERSTORY TREE SHOULD BE BETWEEN FIFTEEN (15) AND FORTY (40) FEET HEIGHT. EVERY TWO (2) UNDERSTORY TREES MAY BE SUBSTITUTED WITH ONE (1) LARGE CANOPY TREE. HOWEVER, NO MORE THAN FIFTY (50) PERCENT OF THE REQUIRED UNDERSTORY TREES MAY BE SUBSTITUTED. EACH SHRUB AT THE TIME OF PLANTING SHALL BE 3 GALLON SIZE OR LARGER. SUBSTITUTIONS SHOULD BE CONFIRMED WITH THE PLANNING DIVISION.

NOTE:
 Each large canopy tree at the time of planting shall be a minimum of two (2) inches in caliper and eight (8) - ten (10) feet in height. When mature, a large canopy tree should be at least forty (40) feet high and have a minimum crown width of thirty (30) feet. Large canopy trees may be substituted with two (2) understory trees. However, no more than fifty (50) percent of the required large canopy trees may be substituted. Each understory tree at the time of planting shall be a minimum of one (1) inch in caliper and eight (8) feet in height. When mature, an understory tree should be between fifteen (15) and forty (40) feet height. Every two (2) understory trees may be substituted with one (1) large canopy tree. However, no more than fifty (50) percent of the required understory trees may be substituted. Each shrub at the time of planting shall be 3 gallon size or larger. Substitutions should be confirmed with the Planning Division.

No.	REVISIONS	DATE	BY
1			
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 #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050



KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COB

LANDSCAPE DETAILS

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

SHEET NUMBER
L2.0



1. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, AND JOB SITE SAFETY.
 2. GC MUST PROVIDE & INSTALL ALL PRODUCTS PER PLANS. ONLY SUBSTITUTED PRODUCTS NEED TO BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. UNAPPROVED SUBSTITUTIONS WILL BE REPLACED AT THE EXPENSE OF THE GC.
 3. VERBAL REPRESENTATION HAS NO VALUE AND ALL REQUESTS TO CHANGE ANY PRODUCTS OR SPECIFICATIONS PER PLANS MUST BE SUBMITTED IN WRITING TO THE ARCHITECT & TLE FOR APPROVAL.

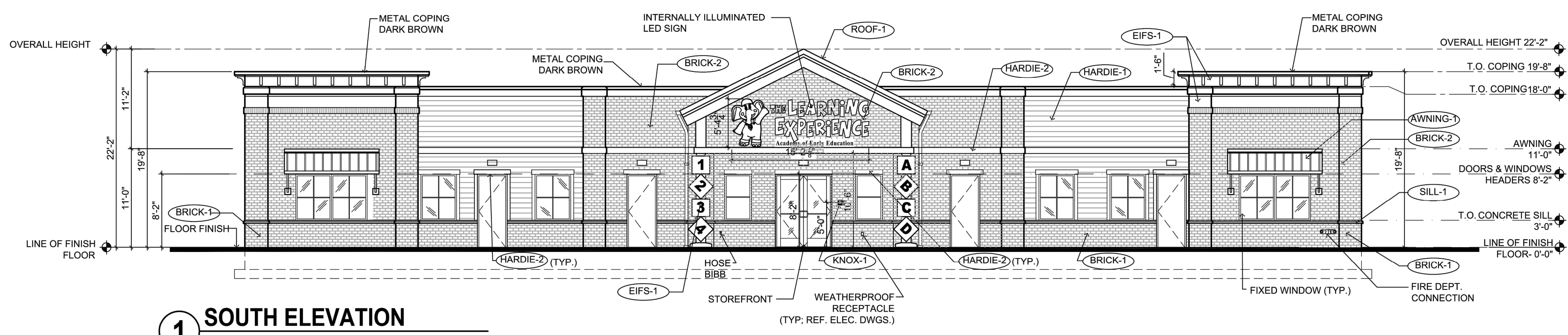


Jarmel Kizel
 ARCHITECTS AND ENGINEERS INC.
 42 OKNER PARKWAY
 LIVINGSTON, NEW JERSEY 07039
 TEL: 973-994-9669
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 www.jarmelkizel.com

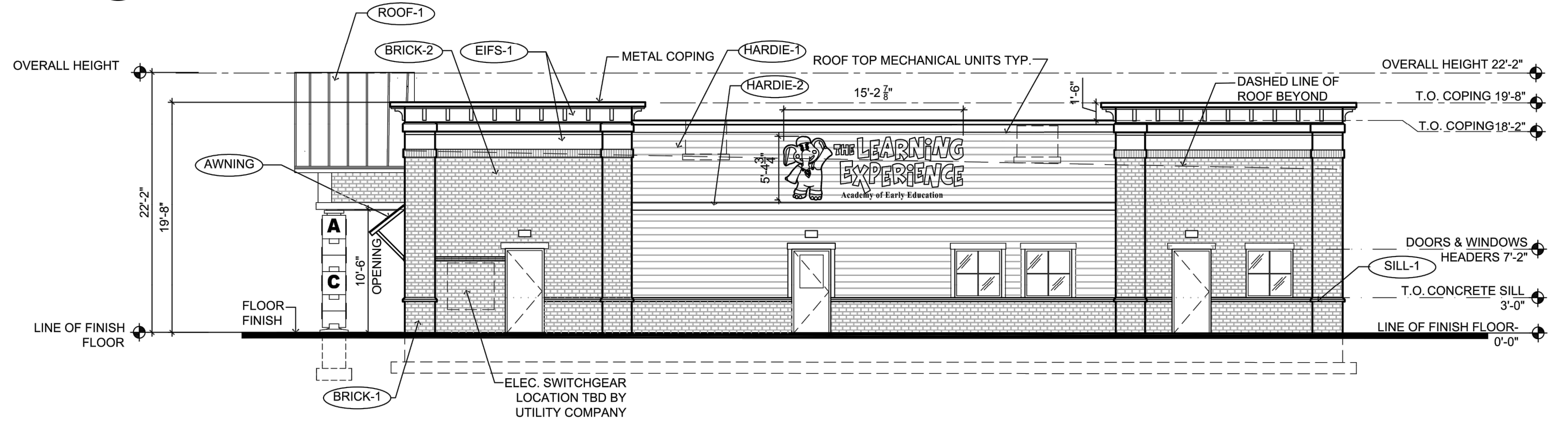
Architecture
 Engineering
 Interior Design
 Implementation Services

THE LEARNING EXPERIENCE
 ACADEMY OF
 EARLY EDUCATION

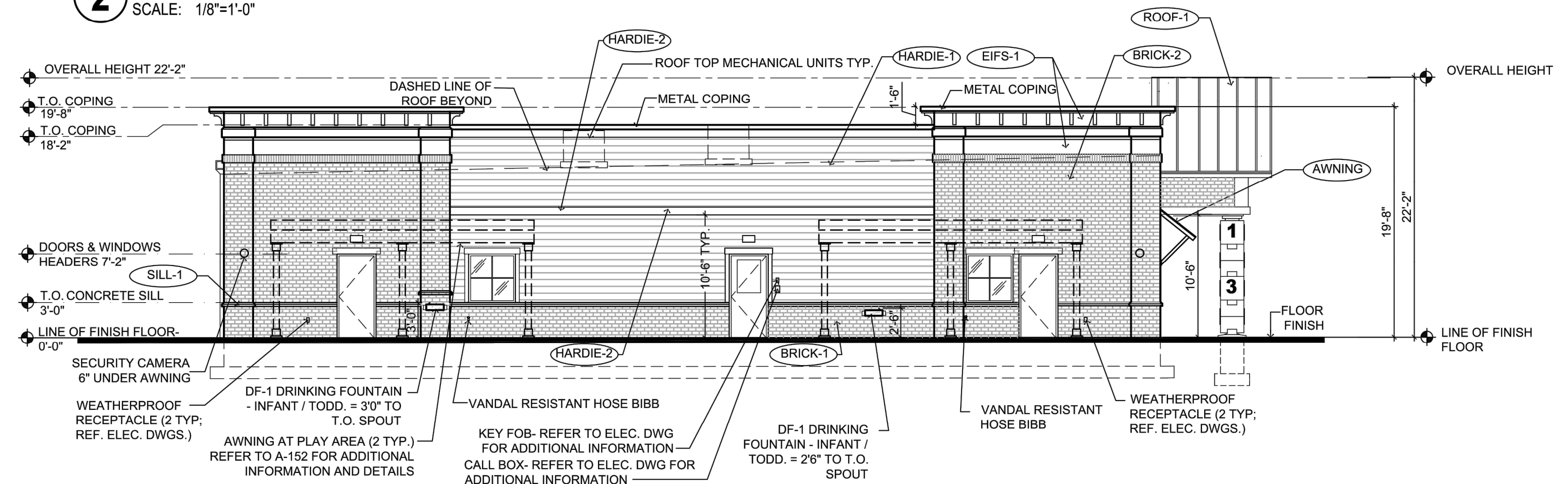
US Hwy 401 S Main St
 ROLESVILLE NORTH CAROLINA

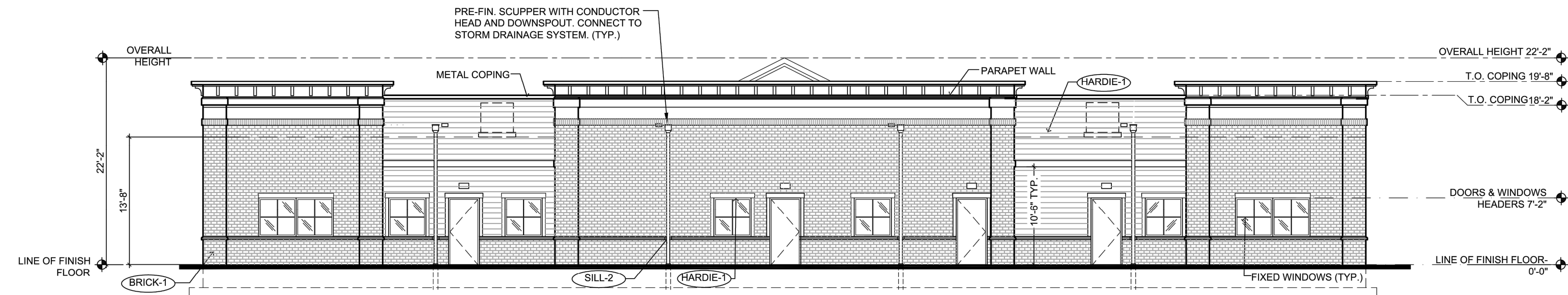
1 SOUTH ELEVATION
 SCALE: 1/8"=1'-0"



2 EAST ELEVATION
 SCALE: 1/8"=1'-0"



3 WEST ELEVATION
 SCALE: 1/8"=1'-0"



4 NORTH ELEVATION
 SCALE: 1/8"=1'-0"

EXTERIOR MATERIAL SCHEDULE			
LABEL	MANUFACTURER	SIZE / TYPE	FINISH / COLOR
STOREFRONT	KAWNEER	TRIFAB 451T / 350 PER DOOR SCHEDULE	DARK BRONZE
DOOR	-	PER DOOR SCHEDULE	FACTORY PRIMED
FIXED WINDOW	PLY GEM	SILVER LINE V1 SERIES PER WINDOW SCHEDULE	DARK BRONZE
SILL-1	ROCKCAST	CAST STONE SILL	BUFFSTONE
SILL-2	ROCKCAST	CUSTOM SILL 3 3/4"Hx4"W W/ 2" FLAT REF. DTL. 6/A-032	BUFFSTONE
BRICK-1	GENERAL SHALE	MODULAR BRICK VENEER	DUTCH CHOCOLATE
BRICK-2	GENERAL SHALE	MODULAR BRICK VENEER	MILLBROOK
HARDIE-1	JAMES HARDIE	HARDIEPLANK LAP SIDING	COBBLESTONE
HARDIE-2	JAMES HARDIE	HARDIEPLANK TRIM	WHITE
EIFS-1	DRYVIT	SMOOTH FINISH	SW 7044 AMAZING GRAY
ROOF-1	BERRIDGE	STANDING SEAM METAL	DARK BRONZE
AWNING-1	BERRIDGE	STANDING SEAM AWNING W/ FRAME	DARK BRONZE
AWNING-2	-	FABRIC AWNING OVER FRAME REFER TO NOTE #4	MIDNIGHT BLUE
KNOX-1	KNOX BOX	3200 SERIES W/ RECESSED MOUNT FLANGE, HINGE DOOR, & TAMPER SWITCH	DARK BRONZE (REF. NOTE 2 BELOW)
KNOX-2	KNOX BOX	1650 SERIES W/ RECESSED MOUNT FLANGE, HINGE DOOR, & TAMPER SWITCH	DARK BRONZE (REF. NOTE 2 BELOW)

FINISH SCHEDULE NOTES:
 1. G.C. SHALL VERIFY KNOX BOX MODEL(S) AND LOCATION(S) WITH AUTHORITY HAVING JURISDICTION PRIOR TO ORDERING AND INSTALLATION.
 2. G.C. SHALL ENSURE ALL EXTERIOR FINISHES ARE INSTALLED AND FINISHED IN COMPLIANCE WITH MANUFACTURERS' WARRANTY REQUIREMENTS.
 3. IF BLOCKS ARE NOT PERMITTED, COLUMNS MUST MATCH EXTERIOR FINISH OF THE BUILDING.
 4. PER 2015 IBC SECTION 3105, AWNING FRAMES SHALL BE OF NONCOMBUSTIBLE MATERIALS AND DESIGNED TO RESIST APPLICABLE WIND LOADS. THE COVERING FABRIC SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN 25.

ISSUE			
NO.	DATE	DESCRIPTION	INT.

REVISION			
NO.	DATE	DESCRIPTION	INT.

PROFESSIONAL CERTIFICATION
 NAME OF LICENSEE:
 MATTHEW B. JARMEL
 LICENSE NUMBER: 10120
 EXPIRATION DATE:

Project Number: TLENC23-228
 Scale: 1/8"=1'-0"
 Drawn By: EG
 Approved By: MBJ

Drawing Name:
PROPOSED ELEVATIONS

Drawing Number:
SA-1.2