

# THE LEARNING CENTER ROLESVILLE

302 SOUTH MAIN STREET  
ROLESVILLE, NC 27571

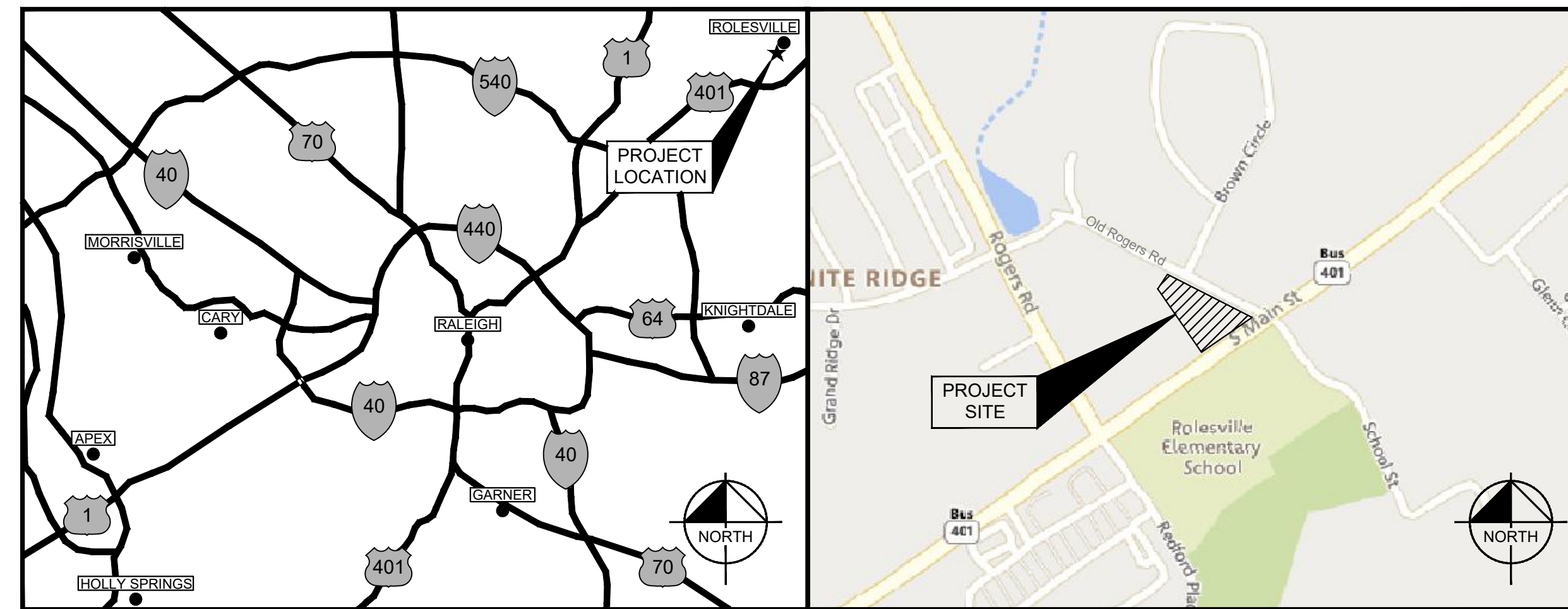
A DEVELOPMENT BY:  
ROLESVILLE, LLC.

PROJECT NO.: SDP-23-07  
DATE: OCTOBER 02, 2023

## SITE DATA TABLE

PIN:	1759808293
TOTAL SITE AREA:	1.25 AC
EXISTING ZONING:	GENERAL COMMERCIAL (GC)
BUFFERS:	REQUIRED: 30' STREET BUFFER (S MAIN ST) 10' STREET BUFFER (OLD ROGERS RD) 25' TYPE 3 PERIMETER BUFFER (REAR)  PROVIDED: 10' STREET BUFFER* (S MAIN ST) 10' STREET BUFFER (OLD ROGERS RD) 7' PERIMETER BUFFER (REAR)**
PROPERTY SETBACKS:	REQUIRED: FRONT: 20' SIDE: 15' REAR: 35' CORNER: 25'  PROVIDED: FRONT: 7* SIDE: 15' REAR: 35' CORNER: 25'
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) $\frac{X 10,000 SF}{= 25 SPACES}$  MAX. ALLOWED: (5 SPACES/1,000 SF) $\frac{X 10,000 SF}{= 50 SPACES}$  PROVIDED: 33 SPACES
ACCESSIBLE PARKING:	REQUIRED: 2 SPACES PROVIDED: 2 SPACES
BICYCLE PARKING:	MIN. REQUIRED: (1 SPACE/5,000 SF) $\frac{X 10,000 SF}{= 2 SPACES}$  PROVIDED: 2 SPACES
TREE COVERAGE DATA:	SEE SHEET L1.0
BUILDING HEIGHT:	22'
BUILDING SQUARE FOOTAGE:	10,000 SF
OPEN SPACE: (PER LDO SEC. 6.2.1.D.3)	MIN. REQUIRED: 5% $\frac{X 66,527 SF}{= 3,327 SF}$  PROVIDED: 6,150 SF
*PER LDO SEC. 3.2.1.C, THE PROJECT IS PROPOSING A 65% REDUCTION TO THE REQUIRED 30' BUILDING SETBACK ALONG S MAIN ST. THE PROJECT WILL MEET THIS REQUIREMENT BY PROVIDING THE ITEMS LISTED IN LDO 3.2.1.C.1-3, 3.2.1.C.4, AND 3.2.1.C.6. THESE INCLUDE MIN. BUILDING AND ACTIVE SPACE FRONTAGE OF TWO-THIRDS STREET FRONTAGE, MAX. VEHICULAR SURFACE AREA OF ONE-THIRD STREET FRONTAGE, 10' SIDEWALK, ENHANCED LANDSCAPING, AND AN ART INSTALLATION.	
**THE PROJECT INTENDS TO REQUEST A VARIANCE WITH THE BOARD OF ADJUSTMENT TO ADDRESS THE REDUCTION IN THE 25' TYPE 3 PERIMETER BUFFER.	
COMPLIANCE WITH 6.8.4.B.2 IS ACHIEVED WITH PATIO, PEDESTRIAN PLAZA WITH BENCHES, LARGE POTTED PLANT, AND ENHANCED PAVING AREA.	

#1 Proposed impervious value is the same as V3 submittal although there were some minor changes. Verify values are up to date.



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  
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### CIVIL ENGINEER

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

### LANDSCAPE ARCHITECT

KIMLEY-HORN AND ASSOCIATES, INC.  
421 FAYETTEVILLE ST., SUITE 600  
RALEIGH, NORTH CAROLINA 27601  
CONTACT: ADAM FULLERTON, MLA, ASLA  
PHONE: (919) 853-2927  
EMAIL: adam.fullerton@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@cnppls.com

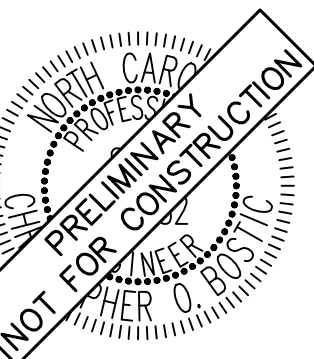
**SURVEY NOTE:**  
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, NC 27588. PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT,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

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L1.0	LANDSCAPE PLAN
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SA 1.1	PROPOSED FLOOR PLAN
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**Kimley»Horn**

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

COVER SHEET

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

SHEET NUMBER  
C0.0



SDP-23-07



Plotted By: Barnes, Michael, Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: CO.1, GENERAL NOTES, May 01, 2024, 05:22:04pm, K:\RAL\_LDE\013031004\_Rolesville\_Learning\_Center\PI0\_CAD\Files\Plan\Sheets\CO.1\_GENERAL NOTES.dwg  
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## GENERAL NOTES:

- WORK IN THIS PROJECT SHALL CONFORM TO THESE PLANS, THE LATEST EDITIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROAD AND BRIDGE SPECIFICATIONS, THE NCDOT ROAD AND BRIDGE STANDARDS, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS, THE TOWN OF ROLESVILLE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT SHALL GOVERN. ALL UTILITIES TO BE DEDICATED TO THE CITY OF RALEIGH MUNICIPAL WATER AND/OR SANITARY SEWER SYSTEM SHALL BE CONSTRUCTED AND TESTED TO CONFORM TO STATE OF NORTH CAROLINA STATE BOARD OF HEALTH WATERWORKS AND/OR SEWAGE REGULATIONS AND THE CITY OF RALEIGH DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- THE TERM "CONTRACTOR" AS REFERENCED HERE-IN SHALL ALSO INCLUDE THE SUBCONTRACTOR OR PRINCIPAL TRADE CONTRACTOR, UNDER CONTRACT TO THE GENERAL CONTRACTOR TO PROVIDE LABOR, MATERIALS, AND/OR SERVICES TO THE PROJECT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOBSITE SAFETY, INCLUDING BUT NOT LIMITED TO TRENCH SAFETY, DURING ALL PHASES OF CONSTRUCTION.
- THE LOCATION AND SIZE OF EXISTING UTILITIES AS SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC OR PRIVATE UTILITIES (SHOWN OR NOT SHOWN) WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE NORTH CAROLINA 811 UTILITIES LOCATION SERVICE (NC811) AT 1-800-632-4949 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- TRAFFIC CONTROL WITHIN ALL VEHICULAR AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR, SHALL BE IN CONFORMANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES," AND AS FURTHER DIRECTED BY CITY AND STATE INSPECTORS.
- ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- CONSTRUCTION STAKEOUT FOR THIS PROJECT SHALL BE PER A DIGITAL (CAD) FILE PROVIDED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE LEAD ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THE DIGITAL FILE AND THE CRITICAL STAKING DIMENSIONS SHOWN ON THIS PLAN. ANY MODIFICATIONS MADE BY OTHERS TO THE DIGITAL FILE PROVIDED BY THE ENGINEER SHALL RENDER IT VOID.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE MEETING WITH THE TOWN OF ROLESVILLE ENGINEERING DIVISION, THE OWNER, AND ENVIRONMENTAL CONSULTANT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING OR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- THE FRAMES AND COVERS OF ALL EXISTING AND PROPOSED DRAINAGE, SANITARY SEWER, WATER MAIN, GAS, AND WIRE UTILITY STRUCTURES SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED ELEVATIONS AND SLOPES.
- ROADWAYS AND BUILDINGS MUST BE CAPABLE OF SUPPORTING FIRE APPARATUS DURING CONSTRUCTION.
- EXISTING INFORMATION SHOWN TAKEN FROM A TOPOGRAPHIC SURVEY DATED FEBRUARY 23, 2023 AND PROVIDED BY CMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, N.C. 27588, PHONE: 919-556-3148.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NC DOT AND TOWN OF ROLESVILLE STANDARDS, SPECIFICATIONS, & DETAILS IF APPLICABLE.

## GRADING

- OBTAIN AND POST THE WAKE COUNTY LAND DISTURBANCE PERMIT ONSITE PRIOR TO COMMENCING WORK ON SITE.
- REFER TO FINAL CONSTRUCTION PLANS FOR CLEARING LIMITS AND TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL ADHERE TO THE LIMITS OF TREE PROTECTION FENCE.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN THE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER, WAKE COUNTY, AND NCDENR), AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS AND REPORT. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE CERTIFIED MATERIAL TESTING AGENCY PRIOR TO PLACEMENT.
- GRADING CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
- ALL MATERIALS USED FOR BACKFILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS, OR ANY OTHER NON-COMPATIBLE SOIL TYPE MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE.
- MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURES, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AS SET OUT IN ASTM STANDARD D-698. THE CONTRACTOR SHALL PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY.
- ALL DEMOLITION, DEBRIS, AND OTHER EXCESS MATERIAL SHALL BE HAULED OFF-SITE AND LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- NO TREE WITHIN THE TREE PROTECTION AREA SHALL BE REMOVED OR DAMAGED.
- THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE PROJECT ACCEPTANCE IS SCHEDULED. FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
- REFERENCE GEOTECHNICAL REPORT FOR PAVING SUB GRADE INFORMATION.
- ALL SPOT GRADE ELEVATIONS IN CURB AND GUTTER REPRESENT GUTTER FLOWLINE ELEVATION AT FACE OF CURB UNLESS OTHERWISE NOTED (ADD 6" FOR TOP OF CURB).
- PROPOSED CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND ROADWAY PROFILES/SUPERELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY.
- REFER TO SITE PLAN AND FINAL PLAT FOR HORIZONTAL DIMENSIONS.
- WHERE FILL IS TO BE PLACED ON EXISTING SLOPES STEEPER THAN 4:1, CONTRACTOR SHALL EXCAVATE BENCHES WITH A MAXIMUM DEPTH OF 3'.
- THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR APPROPRIATE SLOPE STABILIZATION ON ALL SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR BLASTING ROCK IF BLAST ROCK IS ENCOUNTERED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL BLASTING AND SAFETY REQUIREMENTS.
- SILT FENCE SHALL BE PLACED AROUND ALL TEMPORARY SOIL STOCKPILES A MINIMUM OF 3' FROM TOE OF SLOPE.
- VERTICAL DATUM IS BASED ON NAVD 88.

## SANITARY SEWER

- SANITARY SEWER SERVICES SHALL BE SCHEDULE 40 PVC.
- CLEANOUT SYMBOLS SHOWN ON THESE PLANS REPRESENT LOCATION OF SURFACE ACCESS POINT. CONTRACTOR SHALL LOCATE WYE APPROPRIATELY BASED ON PIPE DEPTH.
- SANITARY SEWER CLEAN-OUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY-DUTY TRAFFIC BEARING CASTINGS.

## WATER

- WATERLINES, LARGER THAN 2" SHALL BE DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF ANSI-AWWA C151 PRESSURE CLASS 350. WATERLINES 3/4" TO 2" SHALL BE TYPE "K" SOFT COPPER.
- ALL UNDERGROUND UTILITIES AND FIRE HYDRANTS MUST BE FUNCTIONALLY APPROVED PRIOR TO STRUCTURAL CONSTRUCTION.
- NATIONAL STANDARD THREADS SHALL BE INSTALLED ON FIRE HYDRANTS.
- ALL FIRE HYDRANTS AND FDC CONNECTIONS TO HAVE STORZ TYPE CONNECTION PER CITY OF RALEIGH FIRE DEPARTMENT STANDARDS.

## BACKFLOW PREVENTION:

- THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS REQUIRED BACKFLOW PREVENTER.
- EACH BACKFLOW PREVENTER ASSEMBLY IS REQUIRED TO BE TESTED BY AN APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM INTO SERVICE. CONTRACTOR SHALL PERFORM TESTING IN ACCORDANCE WITH THE CITY OF RALEIGH ENGINEERING DEPARTMENT.

## CONSTRUCTION NOTES

- THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER AND WITH A MINIMUM AMOUNT OF INCONVENIENCE TO TRAFFIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL ADHERE TO THE PROVISIONS OF THE MUTCD (MOST CURRENT EDITION).
- PRIOR TO CONSTRUCTION BEGINNING, ALL SIGNAGE AND TRAFFIC CONTROL SHALL BE IN PLACE.
- THE CONTRACTOR SHALL HAVE A COMPLETE SET OF CONTRACT DOCUMENTS AS WELL AS ALL APPROVALS AND EASEMENTS ON THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR SHALL REPAIR ALL DRIVEWAYS, DRIVEWAY PIPES, CURB AND GUTTER, SIDEWALKS AND STREET TO EXISTING CONDITION OR BETTER.

## PAVING/CURBING

- WHERE PROPOSED CURB AND GUTTER TIES TO EXISTING CURB OR CURB AND GUTTER, A TRANSITION OF 10' SHALL BE MADE TO CONFORM TO THE EXISTING HEIGHTS AND SHAPES.
- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED IN THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- ALL PAVEMENT SUB GRADES (EVEN WHEN ROCK IS ENCOUNTERED) SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF ASTM D-698 DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SHOWN IN THE CONSTRUCTION DOCUMENTS OR AS DIRECTED BY THE CERTIFIED MATERIALS TESTING AGENT. FILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 8" LIFTS.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AND MISCELLANEOUS STRIPING AS SHOWN ON THE PLANS. ALL ROADWAY PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ADHERE TO NCDOT STANDARDS.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- ALL CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5 FEET. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.
- TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY THAT THE CERTIFIED MATERIAL TESTING AGENCY HAS PERFORMED THE WORK AND THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATIONS AND/OR THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES ON PUBLIC STREETS SHALL CONFORM TO MUTCD, NCDOT, AND TOWN OF ROLESVILLE STANDARDS.

## STORM DRAINAGE

- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
- THE TOWN OF ROLESVILLE INSPECTOR SHALL INSPECT ALL "PUBLIC" CONSTRUCTION. THE CONTRACTOR'S PRICE SHALL INCLUDE ALL INSPECTION FEES.
- ALL RCP STORM SEWER MAINS AND LATERALS SHALL BE MINIMUM CLASS III REINFORCED CONCRETE PIPE.
- ALL PVC PIPE USED IN DRAINAGE SYSTEM SHALL BE MINIMUM SDR-35 OR APPROVED EQUAL.
- ALL PVC TO RCP CONNECTIONS SHALL BE CONSTRUCTED WITH CONCRETE COLLARS.
- THE LOCATIONS OF STORM SEWER STRUCTURES SHOWN ON THESE PLANS (AND PROVIDED IN ASSOCIATED CAD FILES) ARE APPROXIMATE. THE CONTRACTOR SHALL STAKE ALL CURB INLET STRUCTURES SUCH THAT INLET TOPS ALIGN HORIZONTALLY WITH PROPOSED CURB LOCATIONS (PER DETAIL, IF PROVIDED). WHERE PROPOSED STORM SEWERS TIE TO EXISTING STRUCTURES, PIPES, ETC., THE CONTRACTOR SHALL FIELD ADJUST PROPOSED STORM SEWERS TO MATCH THE LOCATIONS OF THESE EXISTING FEATURES.
- RIM ELEVATIONS FOR STORM CATCH BASINS ARE MEASURED TO THE GUTTER FLOW LINE.

## TRAFFIC CONTROL NOTES

- WITHIN THE SIGHT TRIANGLES AND SIGHT EASEMENTS SHOWN ON THESE PLANS, NO OBSTRUCTION SHALL BE LOCATED IN WHOLE OR PART BETWEEN (2) FEET AND (8) FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION OR THE NEAREST TRAVELED WAY, IF NO CURBING EXISTS. OBSTRUCTIONS INCLUDE, BUT ARE NOT LIMITED TO, ANY BERM, FOLIAGE, FENCE, WALL, SIGN, PARKED VEHICLE OR OTHER OBJECT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE AND/OR N.C.D.O.T. STANDARDS AND SPECIFICATIONS.
- REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) FOR DETAILS OF STANDARD TRAFFIC CONTROL SIGNS AND STANDARDS.

## SEEDBED PREPARATION

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- RIPE THE ENTIRE AREA TO SIX INCHES DEEP.
- REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE MIXTURE BELOW).
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT SAEC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
- \*AGRICULTURAL LIMESTONE - 2 TONS/ ACRE (3 TONS/ACRE IN CLAY SOILS) FERTILIZER - 1,000 LBS. / ACRE -10-10-10 SUPERPHOSPHATE- 500 LBS/ ACRE -20% ANALYSIS MULCH -2 TONS / ACRE - SMALL GRAIN STRAW ANOTHER - ASPHALT EMULSION @ 300 GALS./ ACRE

## SEEDING SCHEDULE

DATE	TYPE	PLANTING RATE
<b>SHOULDERS, SIDE DITCHES, SLOPES (MAX 3:1)</b>		
AUG 15 - NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 - MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE
MAR 1 - APR 15	TALL FESCUE	300 LBS/ACRE
APR 15 - JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1 - AUG 15	TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
<b>SLOPES (3:1 TO 2:1)</b>		
MAR 1 - JUN 1	SERICEA LESPEDEZA (SCARIFIED)	50 LBS/ACRE
(MAR 1 - APR 15)	AND ADD TALL FESCUE	120 LBS/ACRE
(MAR 1 - JUN 30)	OR ADD WEEPING LOVEGRASS	10 LBS/ACRE
(MAR 1 - JUN 30)	OR ADD HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUN 1 - SEP 1	***TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
SEP 1 - MAR 1	SERICEA LESPEDEZA (UNHULLED-UNSCARIFIED) AND TALL FESCUE	70 LBS/ACRE
(NOV 1 - MAR 1)	ADD ABRUZZI RYE	120 LBS/ACRE 25 LBS/ACRE

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.

\*\*\*TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING. OTHERWISE FESCUE MAY BE SHADED OUT.

\*NOTE: 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.

NURSE CROP: WHEN SEEDING BERMUDA GRASS SEED CONTRACTOR SHALL ADD 25 LB/AC OF ANNUAL RYE GRASS AS NURSE CROP UNTIL PERMANENT ESTABLISHMENT OF BERMUDA GRASS

## EROSION CONTROL NOTES

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCEQ) AND WAKE COUNTY EROSION AND SEDIMENT CONTROL REGULATIONS.
- ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDENR EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO THE WAKE COUNTY FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NORTH CAROLINA SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- CONTRACTOR TO ENSURE THAT SEDIMENT LADEN RUNOFF DOES NOT LEAVE SITE LIMITS OR ENTER PROTECTED AREAS. ANY SEDIMENT DEPOSITED BEYOND DISTURBED AREA WITHIN SITE LIMITS SHALL BE REMOVED.
- ROLLED EROSION CONTROL PRODUCTS (RECP'S) SHOULD BE USED TO AID PERMANENT VEGETATED STABILIZATION OF SLOPES GREATER THAN 10' OR GREATER ANCHOR MULCH SHOULD ALSO BE USED WHEN MULCH CANNOT BE ADEQUATELY TACKED AND WHERE IMMEDIATE GROUND COVER IS REQUIRED TO PREVENT EROSION DAMAGE.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 21 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
- WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
- TEMPORARY CONSTRUCTION ENTRANCES SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREAS. TWO TO THREE INCH STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
- ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPLSLOPE LAND DISTURBANCE TAKES PLACE.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- DURING Dewatering OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY CONTRACTOR ONCE STABILIZATION OR A SUFFICIENT GROUND COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY THE ENGINEER. WAKE COUNTY INSPECTOR'S FINAL APPROVAL IS REQUIRED.
- STABILIZATION MEASURES SHALL BE APPLIED TO STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING UPON FIELD CONDITIONS.
- LIMITS OF GRADING SHOWN ON THE PLAN ARE MAXIMUM LIMITS FOR EROSION CONTROL PURPOSES ONLY. SURVEYOR TO DETERMINE ACTUAL LIMIT.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE WAKE COUNTY EROSION CONTROL ORDINANCE, AND IS SUBJECT TO A FINE.
- GRADING MORE THAN 12,000 SF WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE WAKE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.

## ABBREVIATIONS

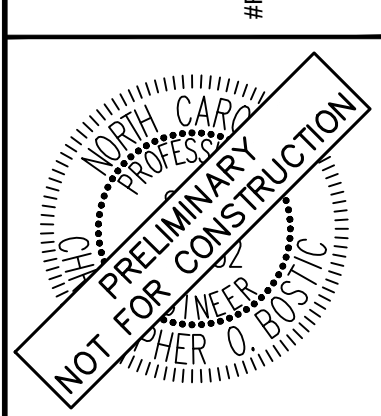
\*NOT ALL ABBREVIATIONS MAY BE USED FOR THIS PROJECT.

CB - CATCH BASIN  
YI - YARD INLET  
CO - CLEAN OUT  
DI - DROP INLET  
EX - EXISTING  
FES - FLARED-END-SECTION  
JB - JUNCTION BOX  
LOD - LIMITS OF DISTURBANCE  
PVC - POLYVINYL CHLORIDE  
RCP - REINFORCED CONCRETE PIPE  
TYP. - TYPICAL

SURVEY NOTE:  
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NO.	REVISIONS	DATE	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

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421 FAYETTEVILLE STREET, SUITE 800, RALEIGH, NC 27601



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

**GENERAL NOTES**

**THE LEARNING CENTER ROLESVILLE**

PREPARED FOR  
**ROLESVILLE, LLC.**

TOWN OF ROLESVILLE  
NORTH CAROLINA

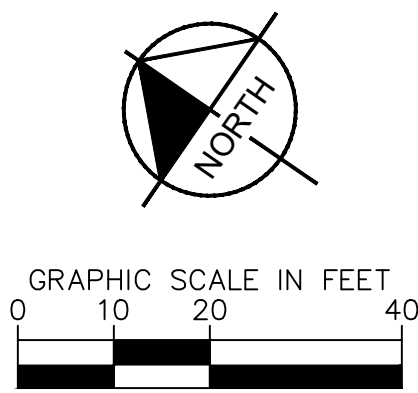
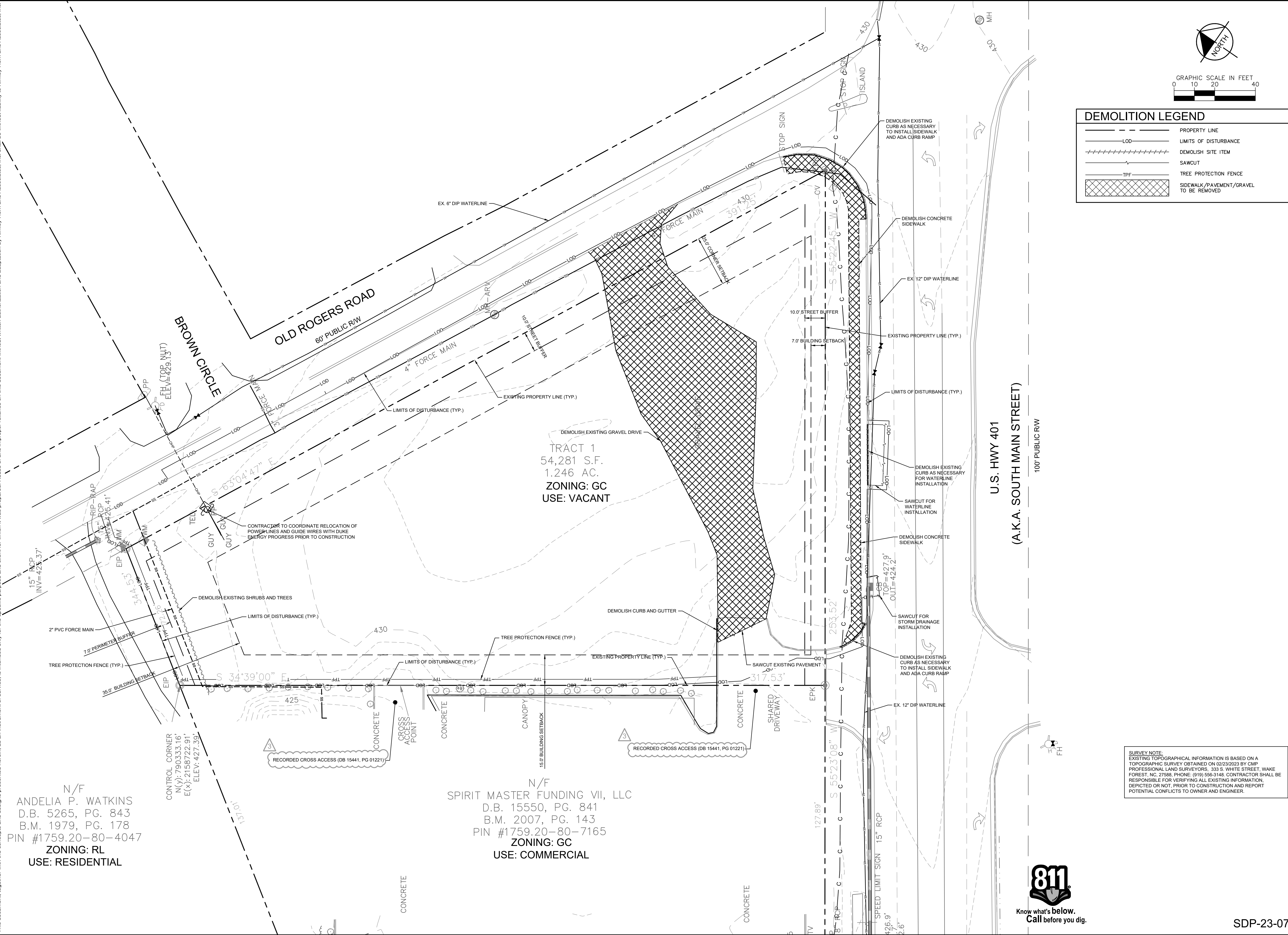
SHEET NUMBER  
**C0.1**



Know what's below.  
Call before you dig.



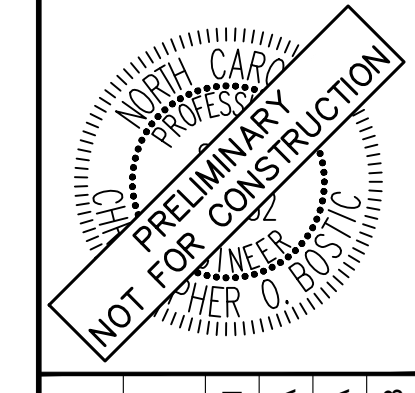
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DEMOLITION LEGEND	
	PROPERTY LINE
	LIMITS OF DISTURBANCE
	DEMOLISH SITE ITEM
	SAWCUT
	TREE PROTECTION FENCE
	SIDEWALK/PAVEMENT/GRAVEL TO BE REMOVED

No.	REVISIONS	DATE	BY
7			
6			
5			
4			
3	TOWN COMMENTS	05/01/2024	JAA
2	TOWN COMMENTS	03/01/2024	JAA
1	TOWN COMMENTS	01/02/2024	JAA

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

**EXISTING CONDITIONS & DEMOLITION PLAN**

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

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SDP-23-07

SHEET NUMBER  
**C1.0**



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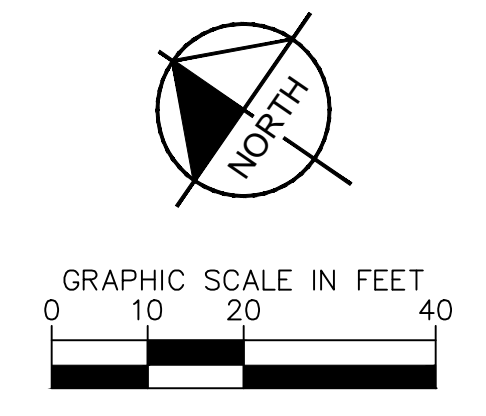
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 Project: VWP-V-L30740-TFT-DBZ-CGL-EM4W-DIM-UNV  
 Type: HE

**VWP** VWP Architectural Wall Pack

**VWP** VWP Architectural Wall Pack

**VWP** VWP Architectural Wall Pack

**ED**  
 Ray Sefcik ray.sefcik@ced.com 817-252-4014



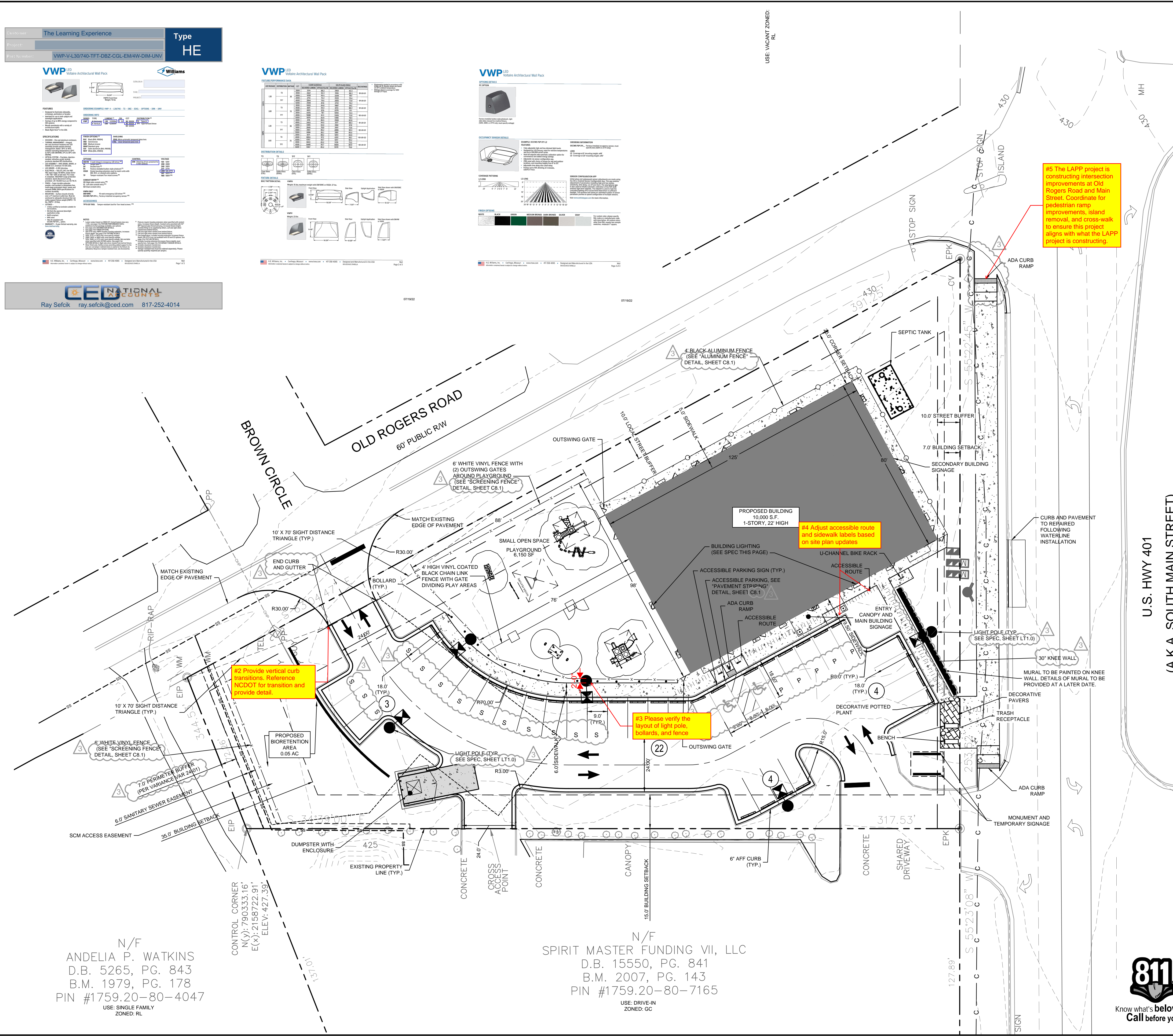
### SITE LEGEND

- PROPERTY LINE
- EASEMENT LINE
- 6" WHITE VINYL FENCE
- 4" BLACK ALUMINUM FENCE
- 4" CHAIN LINK FENCE
- STANDARD 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
- ACCESSIBLE ROUTE
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- STANDARD DUTY CONCRETE
- HEAVY DUTY CONCRETE
- DECORATIVE PAVERS
- PICK UP/DROP OFF PARKING STALLS
- STAFF PARKING STALLS

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

**SITE PLAN**



#2 Provide vertical curb transitions. Reference NCDOT for transition and provide detail.

#3 Please verify the layout of light pole, bollards, and fence

#4 Adjust accessible route and sidewalk labels based on site plan updates

#5 The LAPP project is constructing intersection improvements at Old Rogers Road and Main Street. Coordinate for pedestrian ramp improvements, island removal, and cross-walk to ensure this project aligns with what the LAPP project is constructing.

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
ACCESSIBLE PARKING:	PROVIDED: 33 SPACES REQUIRED: 2 SPACES PROVIDED: 2 SPACES
BICYCLE PARKING:	MIN. REQUIRED: (1 SPACE/5,000 SF) X 10,000 SF = 2 SPACES PROVIDED: 2 SPACES

NOTE: FEE-IN-LIEU TO BE PAID FOR OLD ROGERS ROAD IMPROVEMENTS

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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



SDP-23-07

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

SHEET NUMBER  
**C2.0**

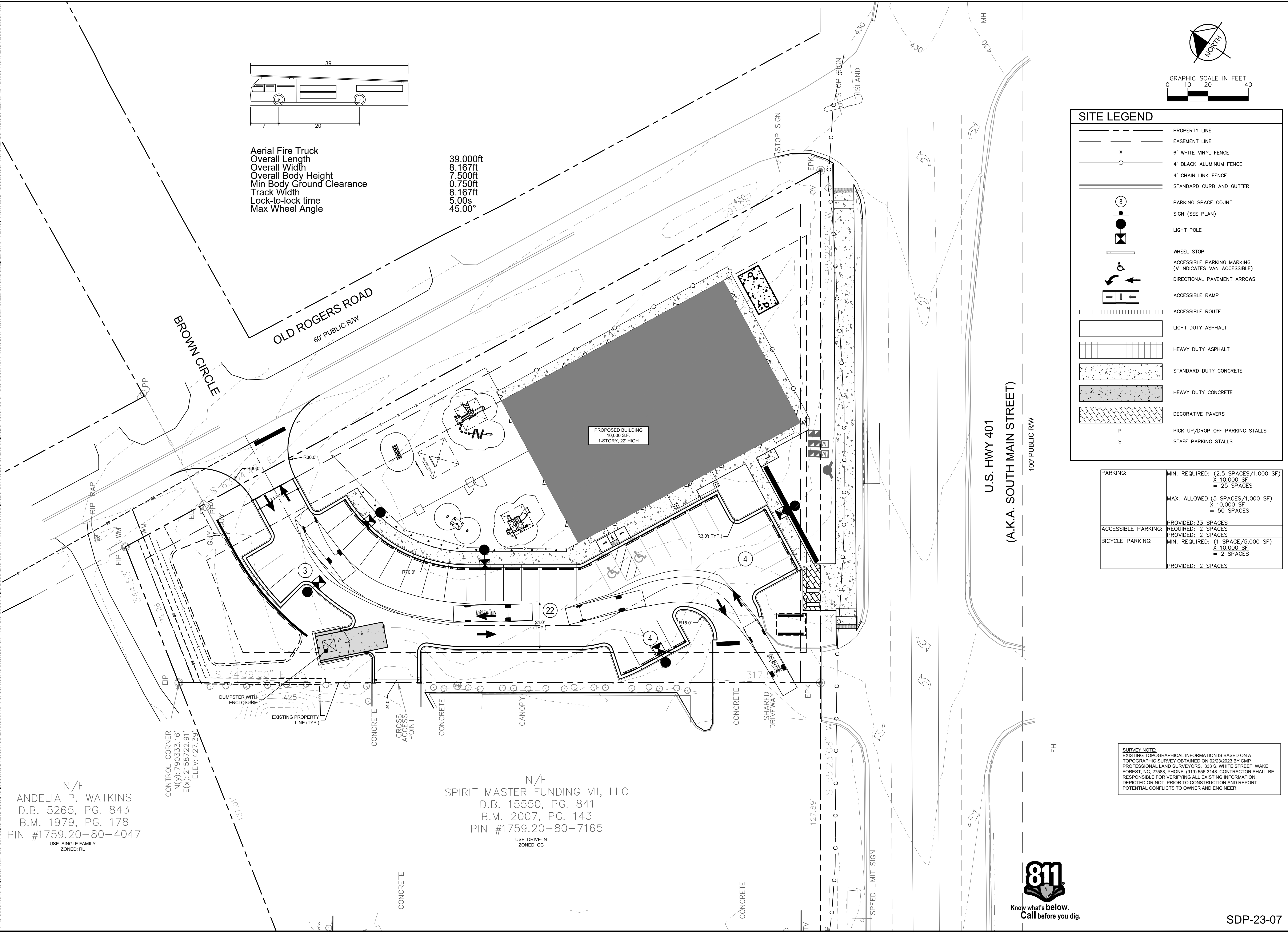
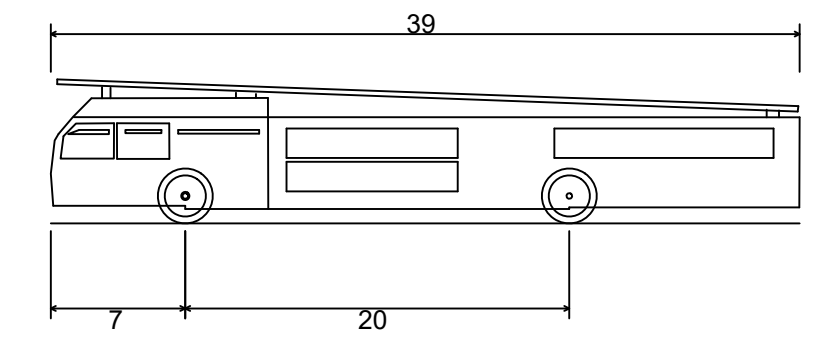


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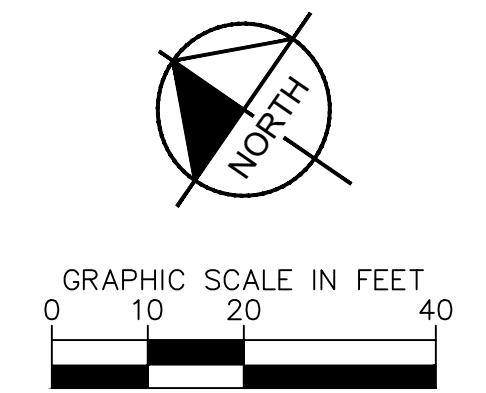
Aerial Fire Truck  
 Overall Length 39.000ft  
 Overall Width 8.167ft  
 Overall Body Height 7.500ft  
 Min Body Ground Clearance 0.750ft  
 Track Width 8.167ft  
 Lock-to-lock time 5.00s  
 Max Wheel Angle 45.00°



SITE LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	6' WHITE VINYL FENCE
	4' BLACK ALUMINUM FENCE
	4' CHAIN LINK FENCE
	STANDARD 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
	ACCESSIBLE ROUTE
	LIGHT DUTY ASPHALT
	HEAVY DUTY ASPHALT
	STANDARD DUTY CONCRETE
	HEAVY DUTY CONCRETE
	DECORATIVE PAVERS
	PICK UP/DROP OFF PARKING STALLS
	STAFF PARKING STALLS

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	MAX. ALLOWED: (5 SPACES/1,000 SF) X 10,000 SF = 50 SPACES
	PROVIDED: 33 SPACES
ACCESSIBLE PARKING:	REQUIRED: 2 SPACES PROVIDED: 2 SPACES
BICYCLE PARKING:	MIN. REQUIRED: (1 SPACE/5,000 SF) X 10,000 SF = 2 SPACES
	PROVIDED: 2 SPACES

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

**TRUCK ROUTING EXHIBIT**

SHEET NUMBER  
**C2.1**

RHA PROJECT  
013031004

DATE  
09/29/2023

SCALE  
AS SHOWN

DESIGNED BY  
JAA

DRAWN BY  
JAA

CHECKED BY  
COB

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**Kimley»Horn**

TOWN COMMENTS  
05/01/2024 JAA

TOWN COMMENTS  
03/01/2024 JAA

TOWN COMMENTS  
01/02/2024 JAA

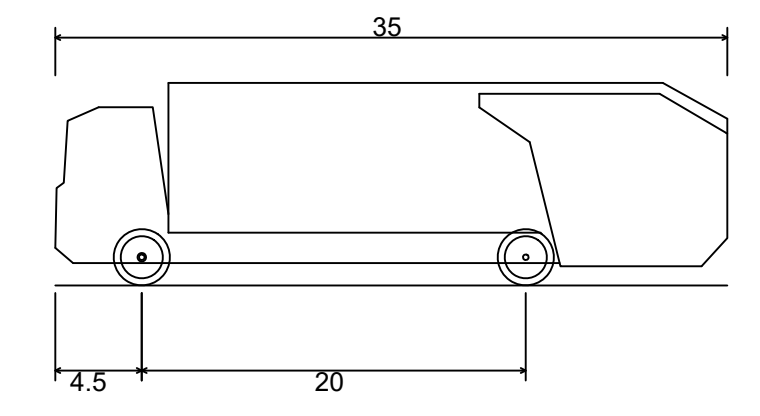
REVISIONS  
No.



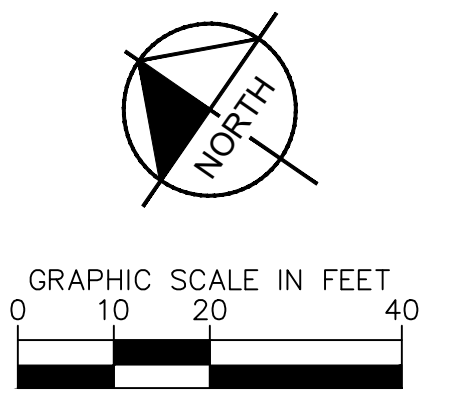
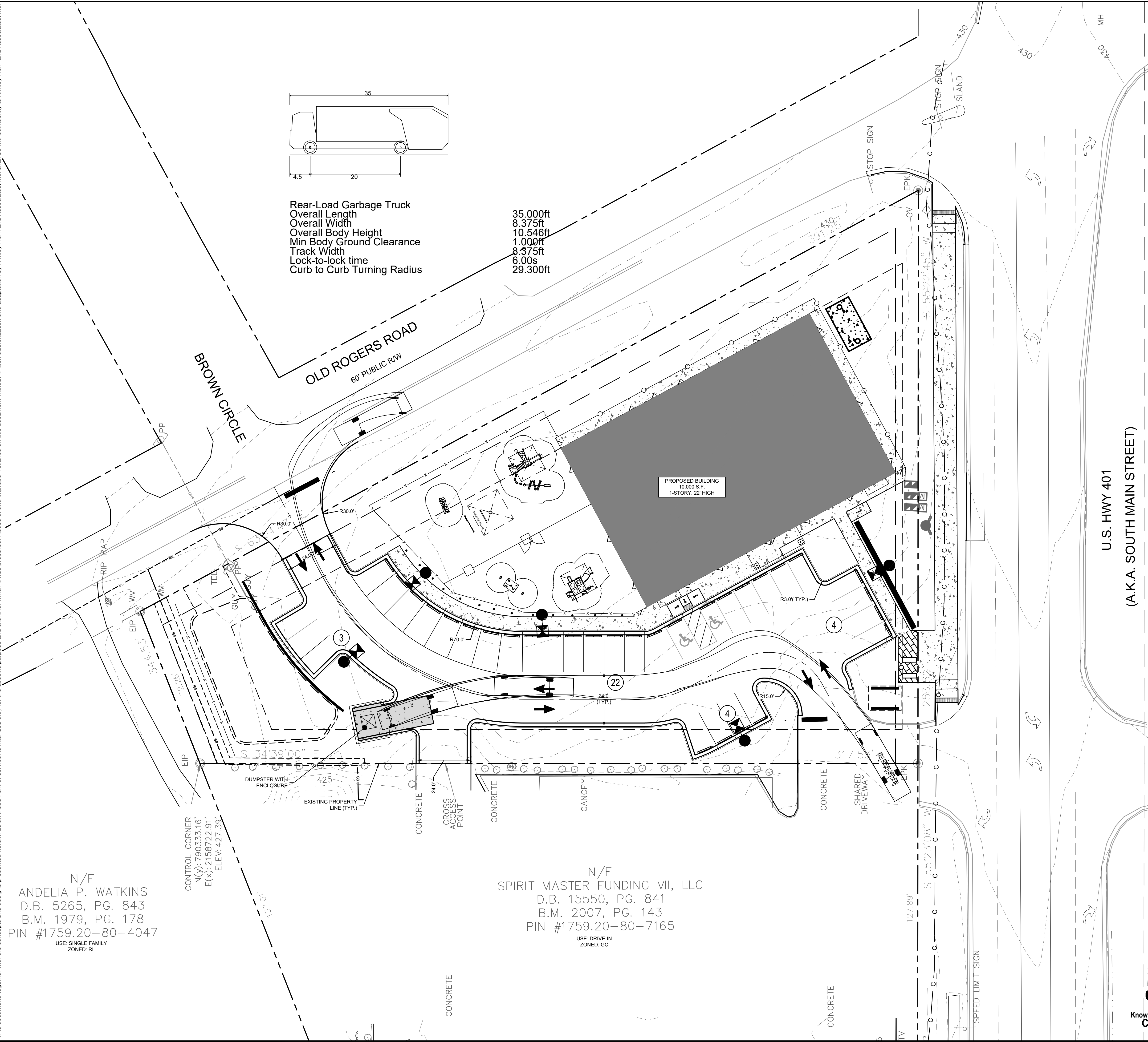
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 B.M. 2007, PG. 143  
 PIN #1759.20-80-7165  
 USE: DRIVE-IN  
 ZONED: GC



Rear-Load Garbage Truck  
 Overall Length 35.000ft  
 Overall Width 8.375ft  
 Overall Body Height 10.546ft  
 Min Body Ground Clearance 1.000ft  
 Track Width 8.375ft  
 Lock-to-lock time 6.00s  
 Curb to Curb Turning Radius 29.300ft



SITE LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	6' WHITE VINYL FENCE
	4' BLACK ALUMINUM FENCE
	4' CHAIN LINK FENCE
	STANDARD CURB AND GUTTER
	PARKING SPACE COUNT
	SIGN (SEE PLAN)
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	ACCESSIBLE PARKING MARKING (V INDICATES VAN ACCESSIBLE)
	DIRECTIONAL PAVEMENT ARROWS
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	ACCESSIBLE ROUTE
	LIGHT DUTY ASPHALT
	HEAVY DUTY ASPHALT
	STANDARD DUTY CONCRETE
	HEAVY DUTY CONCRETE
	DECORATIVE PAVERS
	PICK UP/DROP OFF PARKING STALLS
	STAFF PARKING STALLS

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
ACCESSIBLE PARKING:	PROVIDED: 33 SPACES REQUIRED: 2 SPACES
BICYCLE PARKING:	MIN. REQUIRED: (1 SPACE/5,000 SF) X 10,000 SF = 2 SPACES
	PROVIDED: 2 SPACES

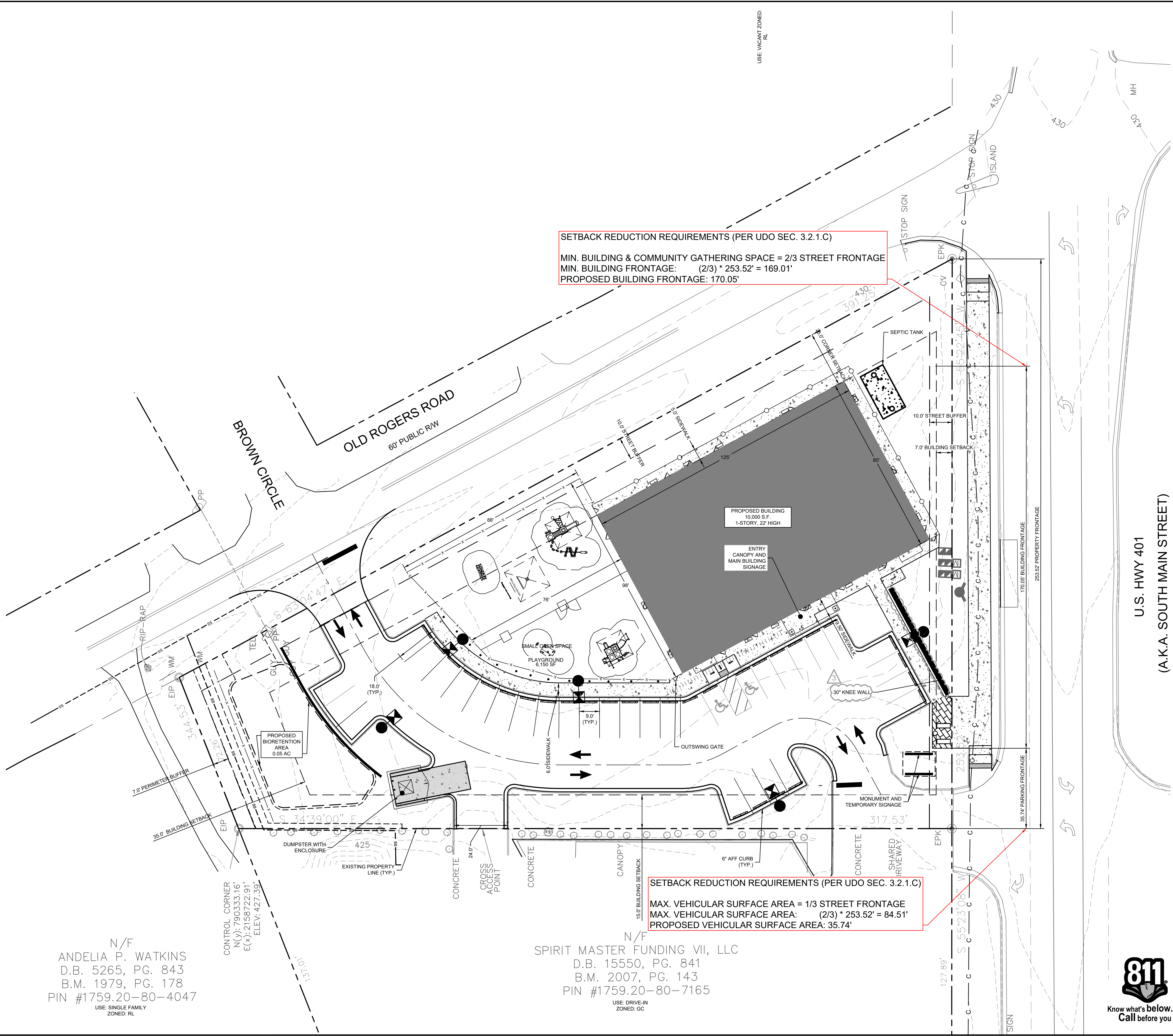
**SURVEY NOTE:**  
 EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, NC, 27988. PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.



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		TOWN COMMENTS	JAA	03/01/2024	JAA
		REVISIONS	No.		
KHA PROJECT 013031004 DATE 09/29/2023 SCALE AS SHOWN DESIGNED BY JAA DRAWN BY JAA CHECKED BY COE		<b>TRUCK ROUTING EXHIBIT</b>			
THE LEARNING CENTER ROLESVILLE PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA		SHEET NUMBER C2.2			



Plotted By: Barnes, Michael. Sheet Set: THE LEARNING CENTER ROLESVILLE. Layout: C2.3 BUILD-TO EXHIBIT. May 01, 2024. 05:22:36pm. K:\RAL\_L\DEV\13031004\_Rolesville\_Leaning\_Center\PTD\_CAD\Plan\Sheets\C2.3 BUILD-TO EXHIBIT.dwg. This document, together with the concepts and designs presented herein, is 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.



**SETBACK REDUCTION REQUIREMENTS (PER UDO SEC. 3.2.1.C)**  
 MIN. BUILDING & COMMUNITY GATHERING SPACE = 2/3 STREET FRONTAGE  
 MIN. BUILDING FRONTAGE: (2/3) \* 253.52' = 169.01'  
 PROPOSED BUILDING FRONTAGE: 170.05'

**SETBACK REDUCTION REQUIREMENTS (PER UDO SEC. 3.2.1.C)**  
 MAX. VEHICULAR SURFACE AREA = 1/3 STREET FRONTAGE  
 MAX. VEHICULAR SURFACE AREA: (2/3) \* 253.52' = 84.51'  
 PROPOSED VEHICULAR SURFACE AREA: 35.74'

SITE LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	6' WHITE VINYL FENCE
	4' BLACK ALUMINUM FENCE
	4' CHAIN LINK FENCE
	STANDARD 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
	ACCESSIBLE ROUTE
	LIGHT DUTY ASPHALT
	HEAVY DUTY ASPHALT
	STANDARD DUTY CONCRETE
	HEAVY DUTY CONCRETE
	DECORATIVE PAVERS
	PICK UP/DROP OFF PARKING STALLS
	STAFF PARKING STALLS

NOTE: FEE-IN-LIEU TO BE PAID FOR OLD ROGERS ROAD IMPROVEMENTS

**SURVEY NOTE:**  
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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



SDP-23-07

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

**BUILD-TO EXHIBIT**

SHEET NUMBER  
**C2.3**

RHA PROJECT  
 013031004

DATE  
 09/29/2023

SCALE  
 AS SHOWN

DESIGNED BY  
 JAA

DRAWN BY  
 JAA

CHECKED BY  
 COB

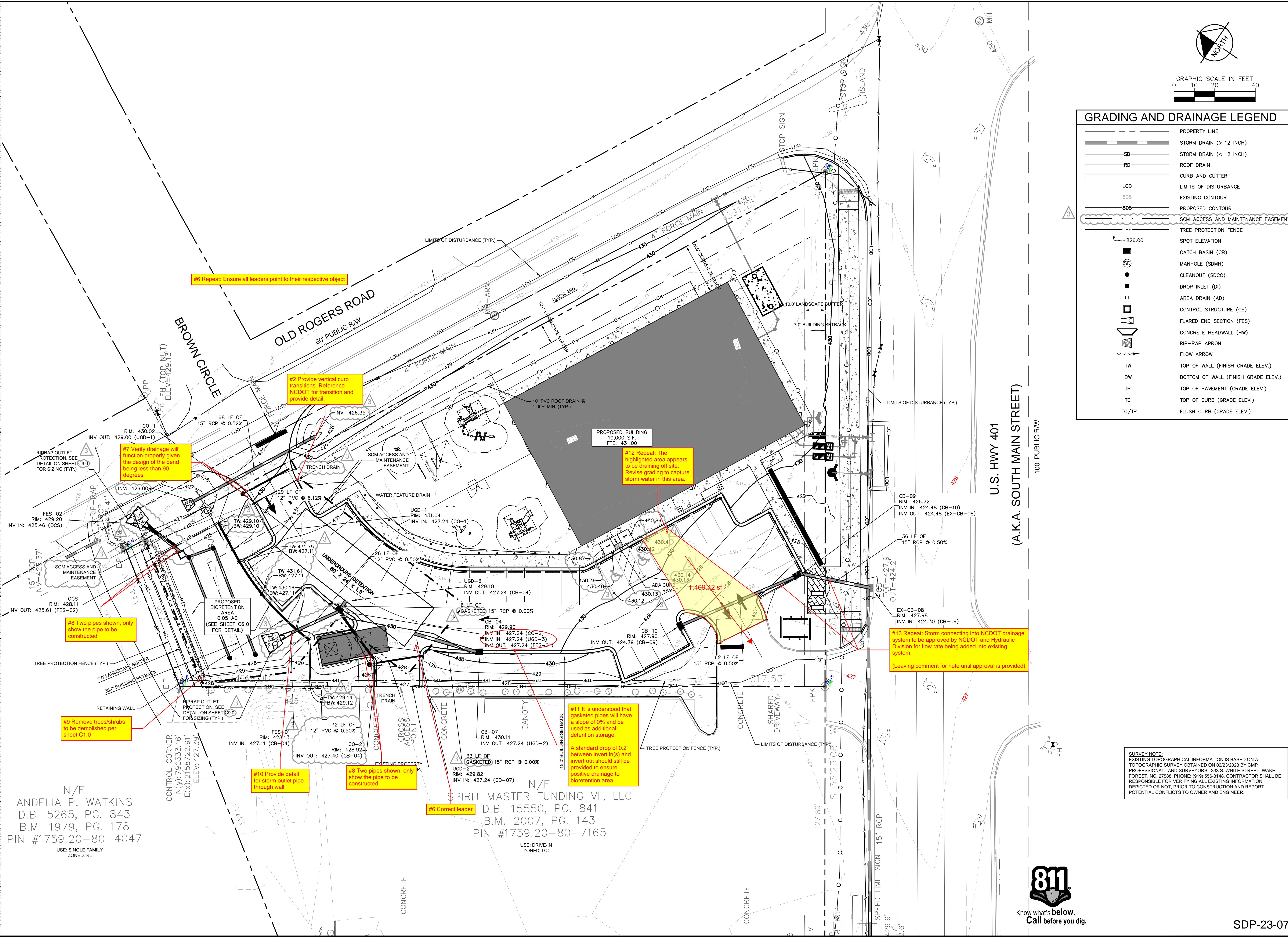
**Kimley»Horn**  
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 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601

NOT FOR CONSTRUCTION  
 PRELIMINARY  
 NORTH CAROLINA  
 SHEET NO. C2.3 OF 3

No.	REVISIONS	DATE	BY
1	TOWN COMMENTS	01/02/2024	JAA
2	TOWN COMMENTS	03/01/2024	JAA
3	TOWN COMMENTS	05/01/2024	JAA



Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE Layout: C3.0 GRADING PLAN May 01, 2024 08:19:37pm K:\REAL\_LDE\013031004\_Rolesville Learning\_Center\PI0\_CAD Files\Sheets\C3.0 GRADING PLAN.dwg  
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#6 Repeat: Ensure all leaders point to their respective object

#2 Provide vertical curb transitions. Reference NCDOT for transition and provide detail.

#7 Verify drainage will function properly given the design of the bend being less than 90 degrees

#12 Repeat: The highlighted area appears to be draining off site. Revise grading to capture storm water in this area.

#8 Two pipes shown, only show the pipe to be constructed

#13 Repeat: Storm connecting into NCDOT drainage system to be approved by NCDOT and Hydraulic Division for flow rate being added into existing system.  
 (Leaving comment for note until approval is provided)

#9 Remove trees/shrubs to be demolished per sheet C1.0

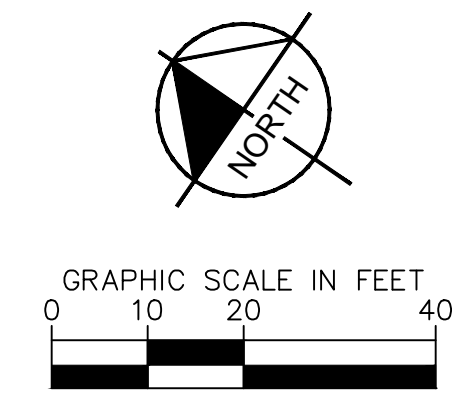
#10 Provide detail for storm outlet pipe through wall

#8 Two pipes shown, only show the pipe to be constructed

#11 It is understood that gasketed pipes will have a slope of 0% and be used as additional detention storage.  
 A standard drop of 0.2' between invert(s) and invert out should still be provided to ensure positive drainage to bioretention area

#6 Correct leader

GRADING AND DRAINAGE LEGEND	
	PROPERTY LINE
	STORM DRAIN (≥ 12 INCH)
	STORM DRAIN (< 12 INCH)
	ROOF DRAIN
	CURB AND GUTTER
	LIMITS OF DISTURBANCE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	SMA ACCESS AND MAINTENANCE EASEMENT
	TREE PROTECTION FENCE
	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 (FINISH GRADE ELEV.)
	BOTTOM OF WALL (FINISH GRADE ELEV.)
	TOP OF PAVEMENT (GRADE ELEV.)
	TOP OF CURB (GRADE ELEV.)
	FLUSH CURB (GRADE ELEV.)



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 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601

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

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

## GRADING PLAN

<p><b>THE LEARNING CENTER ROLESVILLE</b>                  PREPARED FOR  <b>ROLESVILLE, LLC.</b>                  TOWN OF ROLESVILLE NORTH CAROLINA</p>	<p>SHEET NUMBER  <b>C3.0</b></p>
--	--------------------------------------

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



SDP-23-07

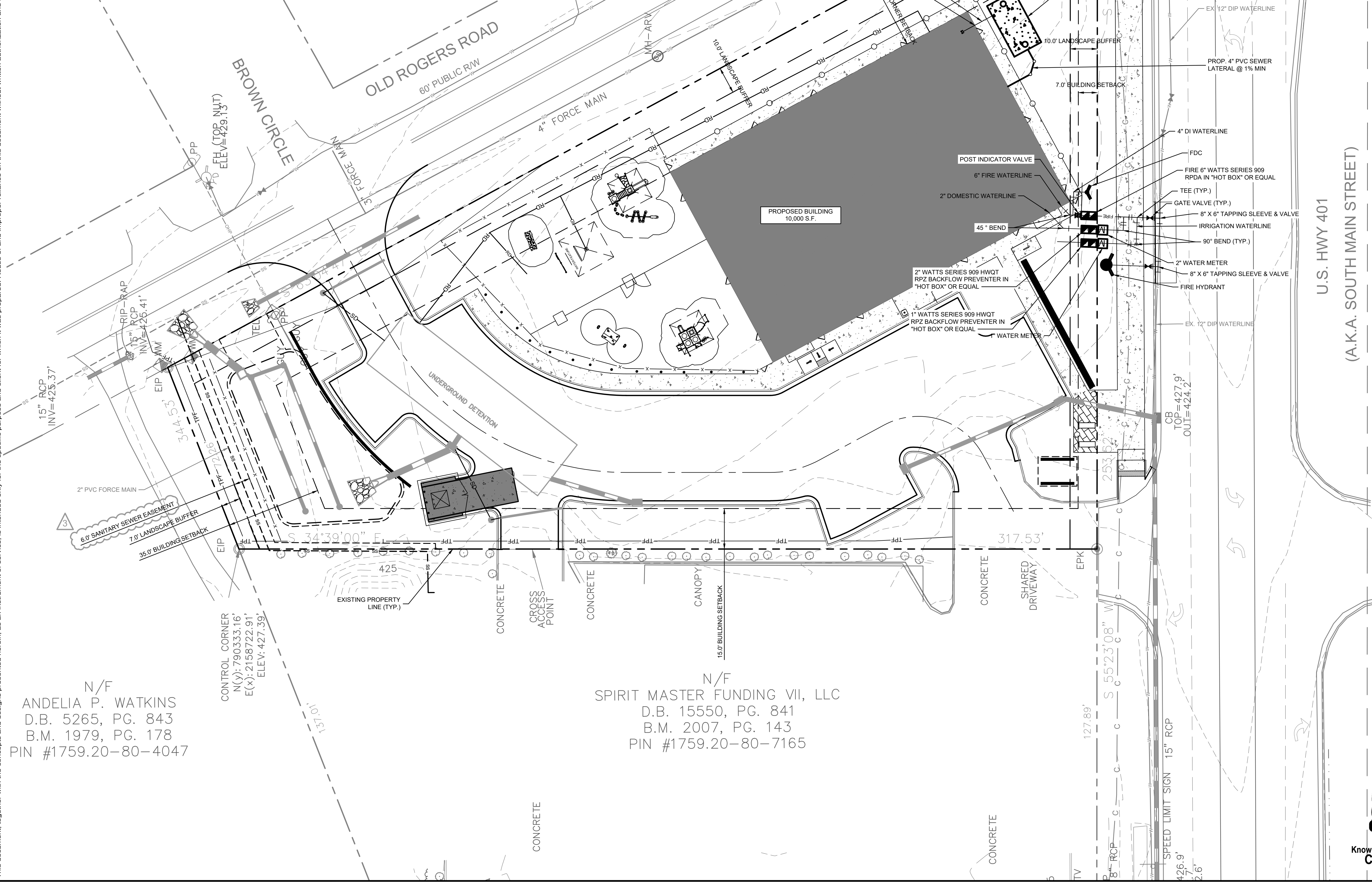


Plotted By: Barnes, Michael. Sheet: THE LEARNING CENTER ROLESVILLE. Layout: C4.0 UTILITY PLAN. May 01, 2024. 05:22:43pm. K:\RAL\_LDE\013031004\_Rolesville\_Layout\Center\P10\_CAD Files\PlanSheets\C4.0 UTILITY PLAN.dwg  
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### STANDARD UTILITY NOTES

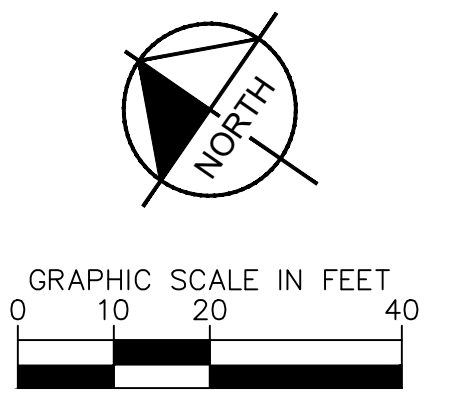
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS & SPECIFICATIONS
- UTILITY SEPARATION REQUIREMENTS:
  - A DISTANCE OF 10' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS 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 ENCASUREMENT 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 NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- NCDOT 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.



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



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
BVP	BACKFLOW PREVENTOR
PB	PIPE TEE/BENDS
R	REDUCER
FH	FIRE HYDRANT (FH)
FDC	FIRE DEPARTMENT CONNECTION (FDC)
SSCO	SANITARY SEWER CLEANOUT (SSCO)
SSMH	SANITARY SEWER MANHOLE (SSMH)
SGT	SANITARY SEWER GREASE TRAP

### 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.

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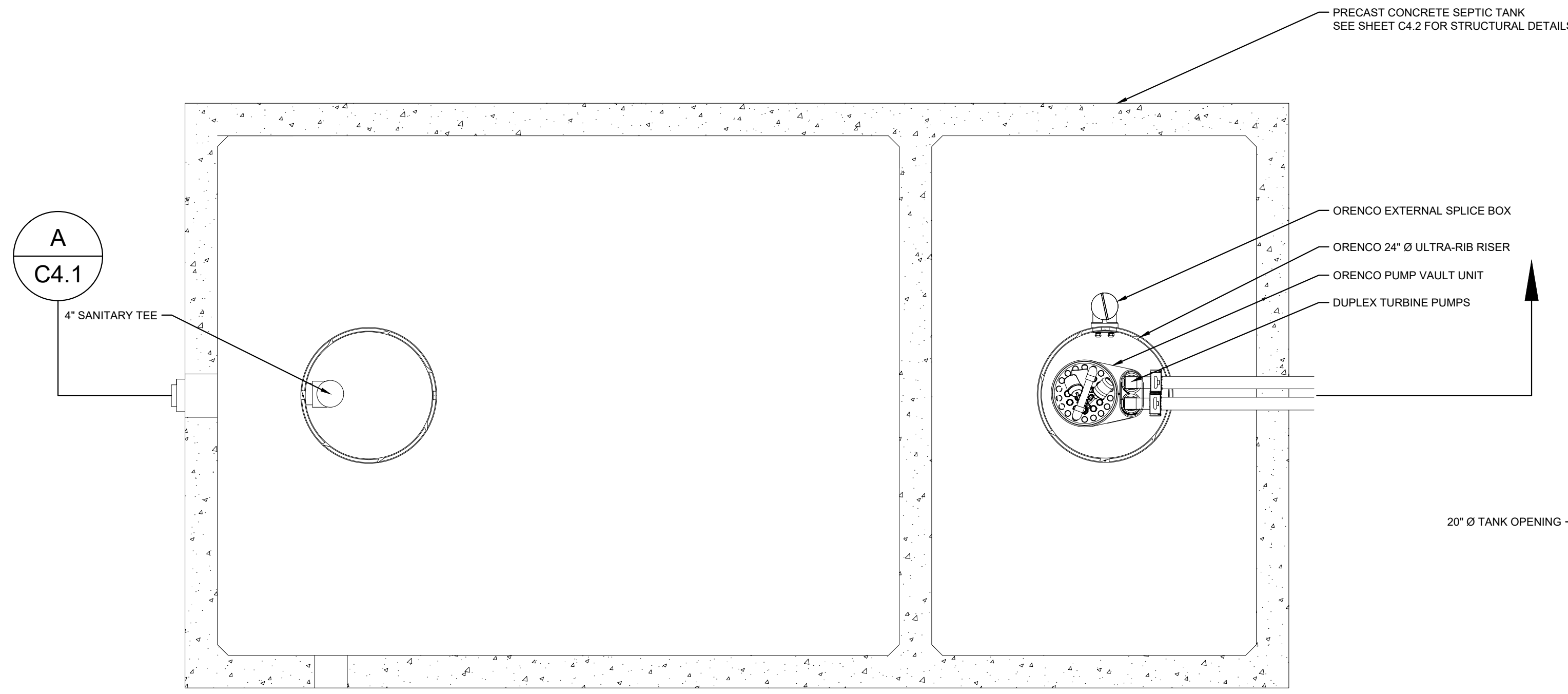
		TOWN COMMENTS JAA 05/01/2024 JAA 03/01/2024 JAA 01/02/2024		REVISIONS No. DATE
		© 2023 KIMLEY-HORN AND ASSOCIATES, INC. #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050 421 FAYETTEVILLE STREET, SUITE 800, RALEIGH, NC 27601		NO. DATE
KHA PROJECT 013031004		DATE 09/29/2023		SCALE AS SHOWN
DESIGNED BY JAA		DRAWN BY JAA		CHECKED BY COB
<b>UTILITY PLAN</b>				
<b>THE LEARNING CENTER ROLESVILLE</b>		PREPARED FOR <b>ROLESVILLE, LLC.</b> TOWN OF ROLESVILLE NORTH CAROLINA		
SHEET NUMBER <b>C4.0</b>		SDP-23-07		



Plotted By: Barnes, Michael. Sheet Set: THE LEARNING CENTER ROLESVILLE. Layout: C4.1. MECHANICAL PLAN. May 01, 2024. 05:22:50pm. K:\RAL\_LDEV\013031004\_Rolesville\_Learning\_Center\PI10\_CAD Files\Plan Sheets\C4.1\_MECHANICAL PLAN.dwg. 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.

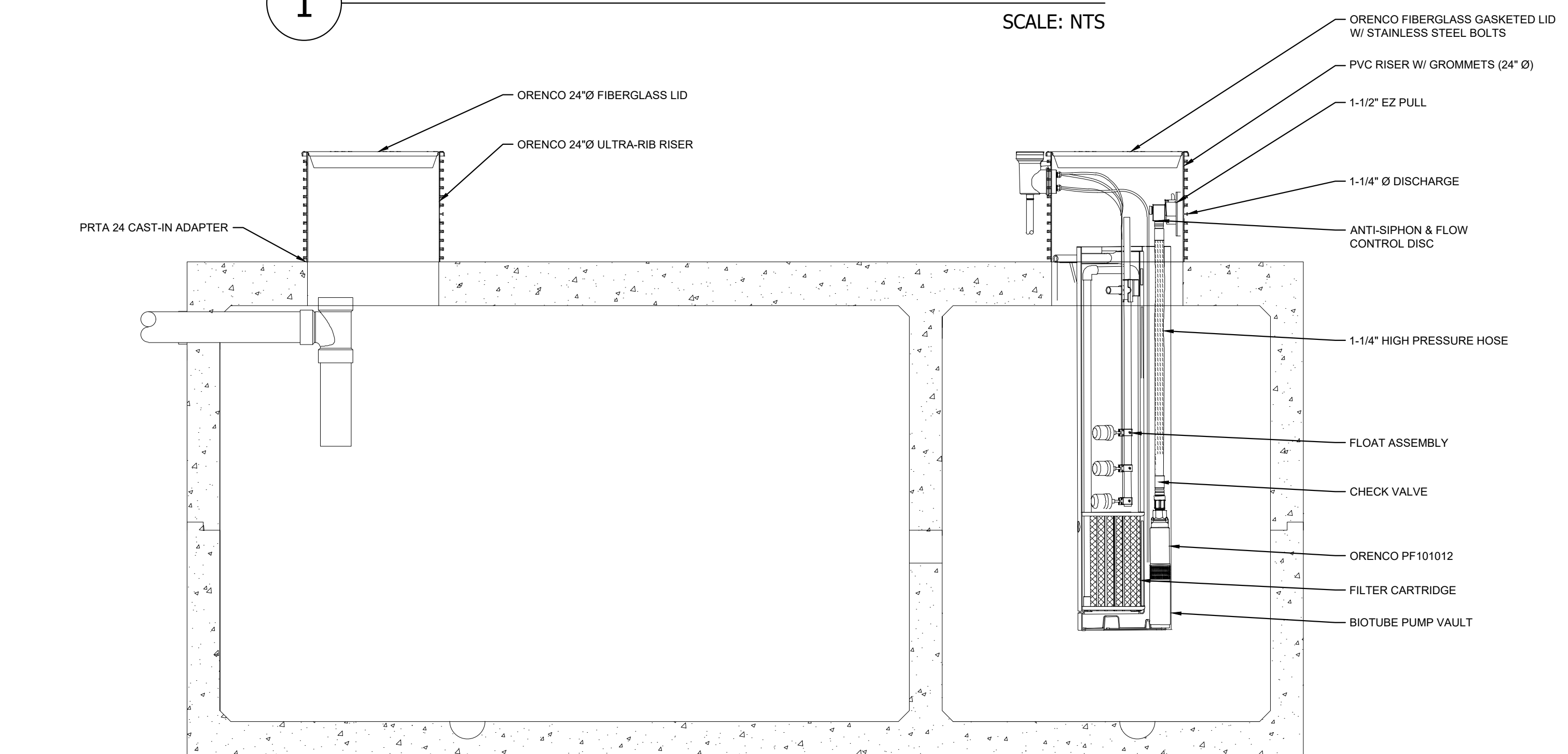
NOTES:  
 1) PROPOSED STEP SYSTEM SHALL BE EQUIPPED WITH A "VERICOMM DAX RO" CONTROL PANEL OR APPROVED EQUAL. CONTACT MICHAEL CLAYTON (MCLAYTON@AQWA.NET, 252-292-1667) FOR STEP SYSTEM SPECIFICATIONS.

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)



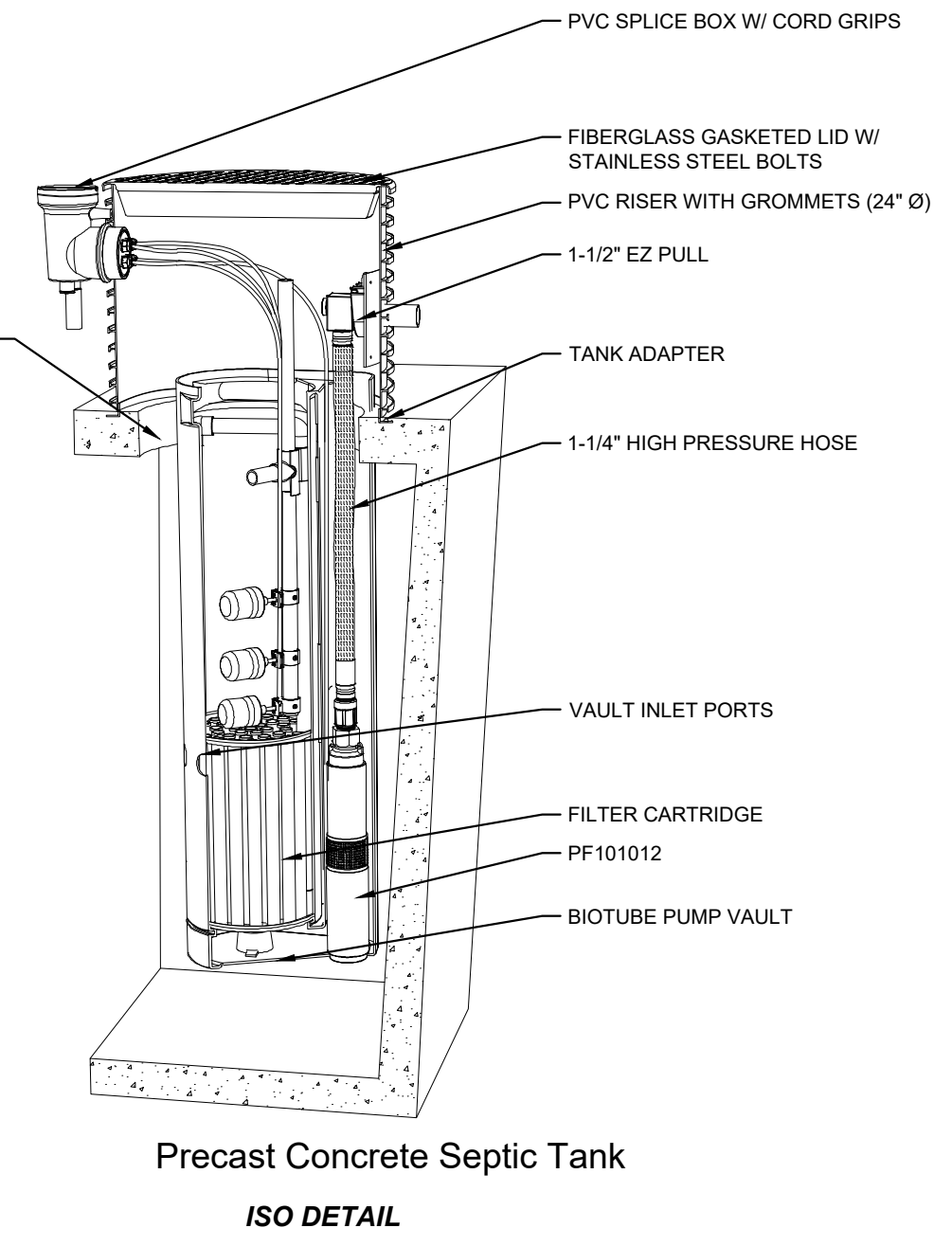
**1** MECHANICAL PLAN VIEW

SCALE: NTS



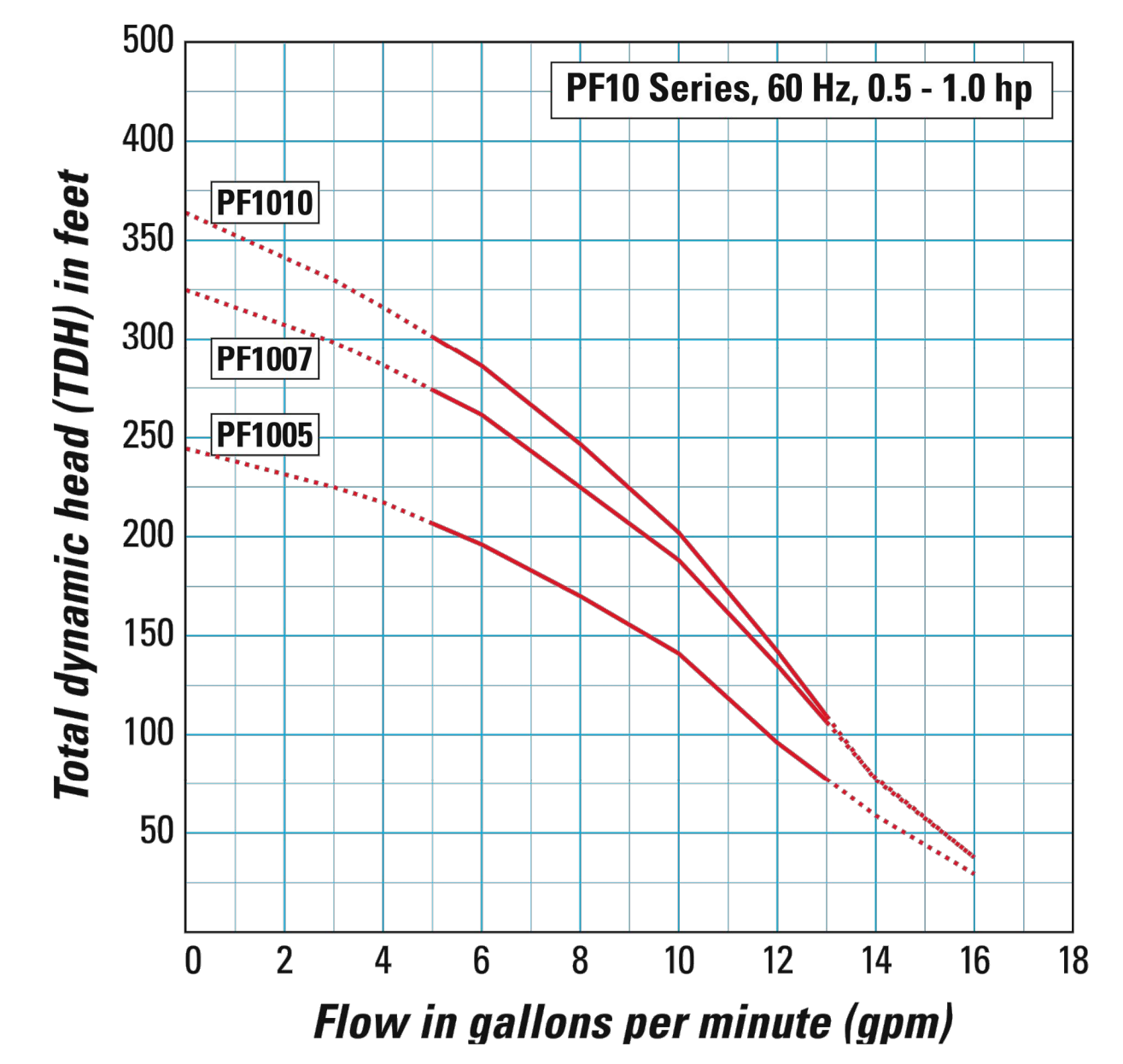
**A** MECHANICAL SECTION VIEW

SCALE: NTS



Precast Concrete Septic Tank  
ISO DETAIL

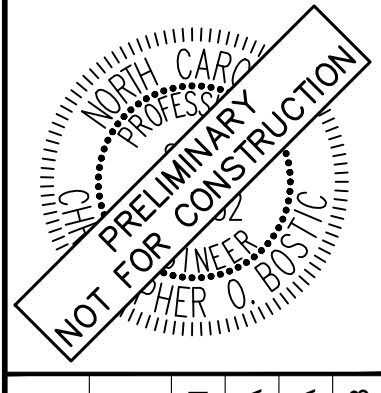
**Pump Curves**



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1	TOWN COMMENTS	05/01/2024	JAA
2	TOWN COMMENTS	03/01/2024	JAA
3	TOWN COMMENTS	01/02/2024	JAA

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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	COB

**MECHANICAL PLAN**

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

SHEET NUMBER  
**C4.1**









Plotted By: Barnes, Michael. Sheet Set: THE LEARNING CENTER ROLESVILLE. Layout: C5.0. EROSION CONTROL PLAN - PHASE 1. May 01, 2024. 05:23:03pm. K:\RAL\_LDEV\013031004\_Rolesville\_Learning\_Center\PT0\_CAD Files\PlanSheets\C5.01 EROSION CONTROL PLAN.dwg  
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### 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, NCD 010006, 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. NCD 010000. 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.NCENR.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. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

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

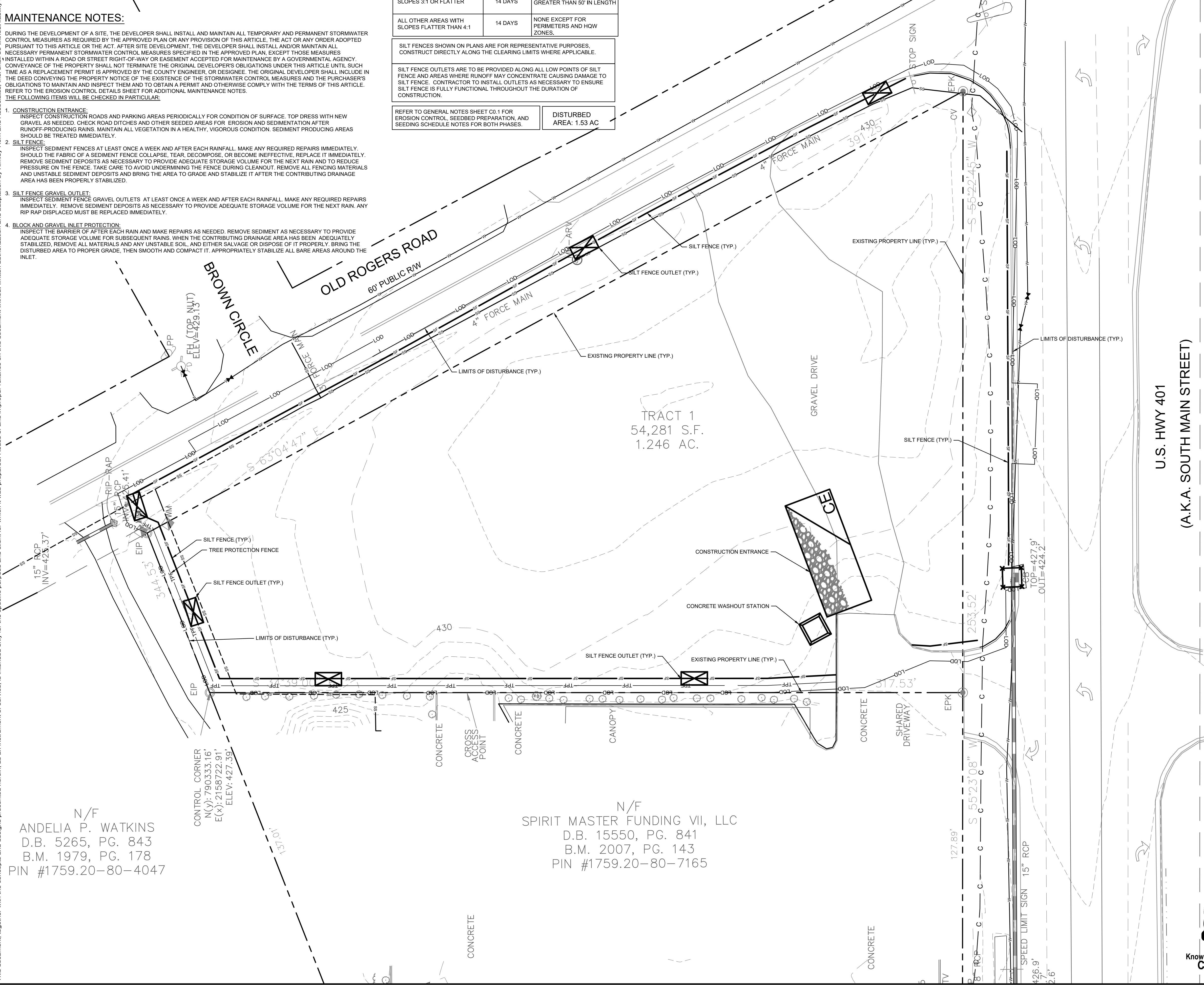
SITE AREA DESCRIPTION	STABILIZATION	TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1. 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS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

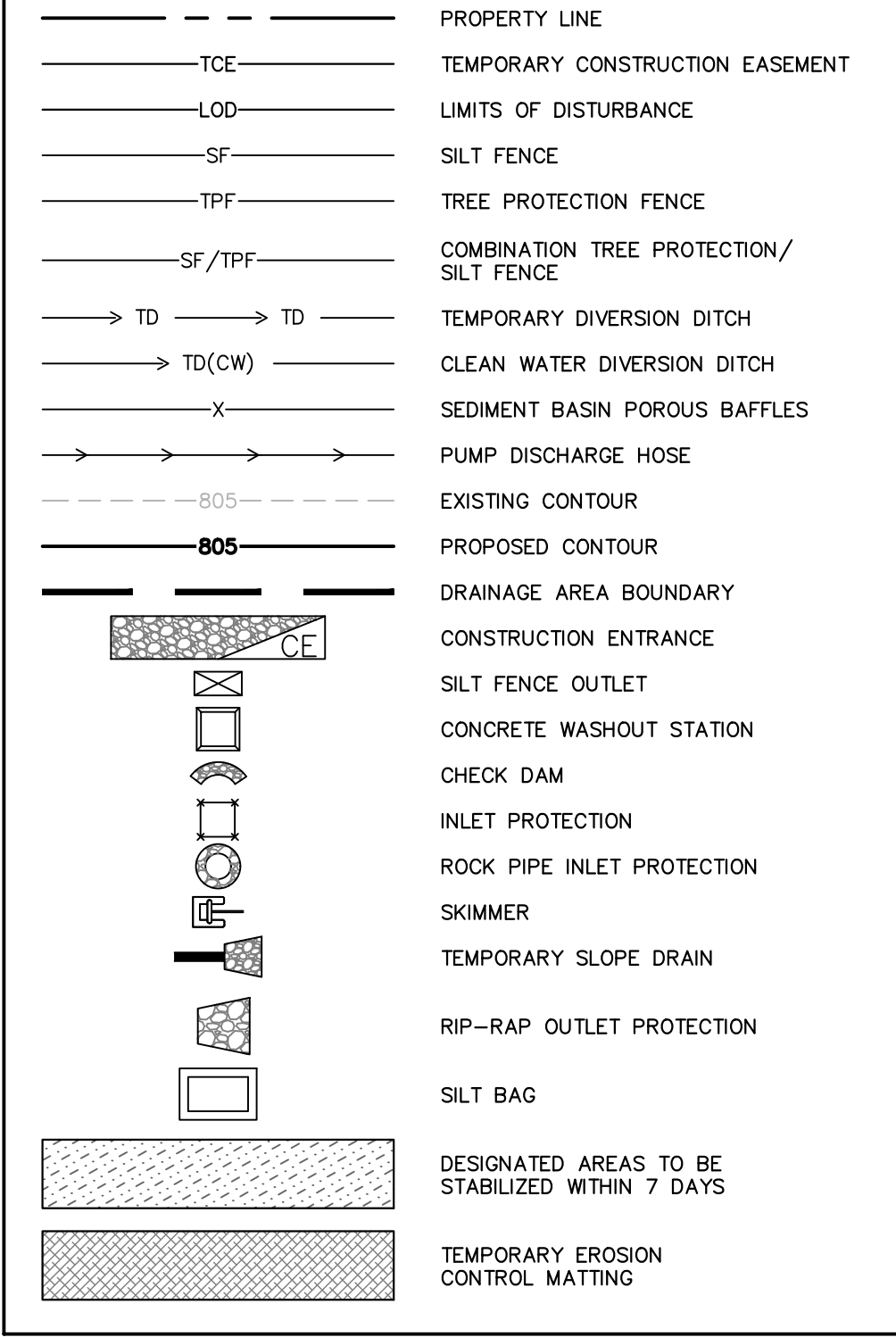
SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

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



### 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).
- 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 NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND WAKE COUNTY EROSION CONTROL ORDINANCE.
- REFER TO SHEET C0.1 - GENERAL NOTES FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE.

**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.

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



		TOWN COMMENTS 05/01/2024 JAA 03/01/2024 JAA 01/02/2024 JAA	REVISIONS No. DATE BY
		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		EROSION CONTROL PLAN - PHASE 1 SHEET NUMBER C5.0	



**SELF MONITORING AND INSPECTION NOTIFICATION**

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AT 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, NCG 0100.00, 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. NCG 0100.00, 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/LR/EROSION](http://portal.ncdenr.org/web/lor/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. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

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

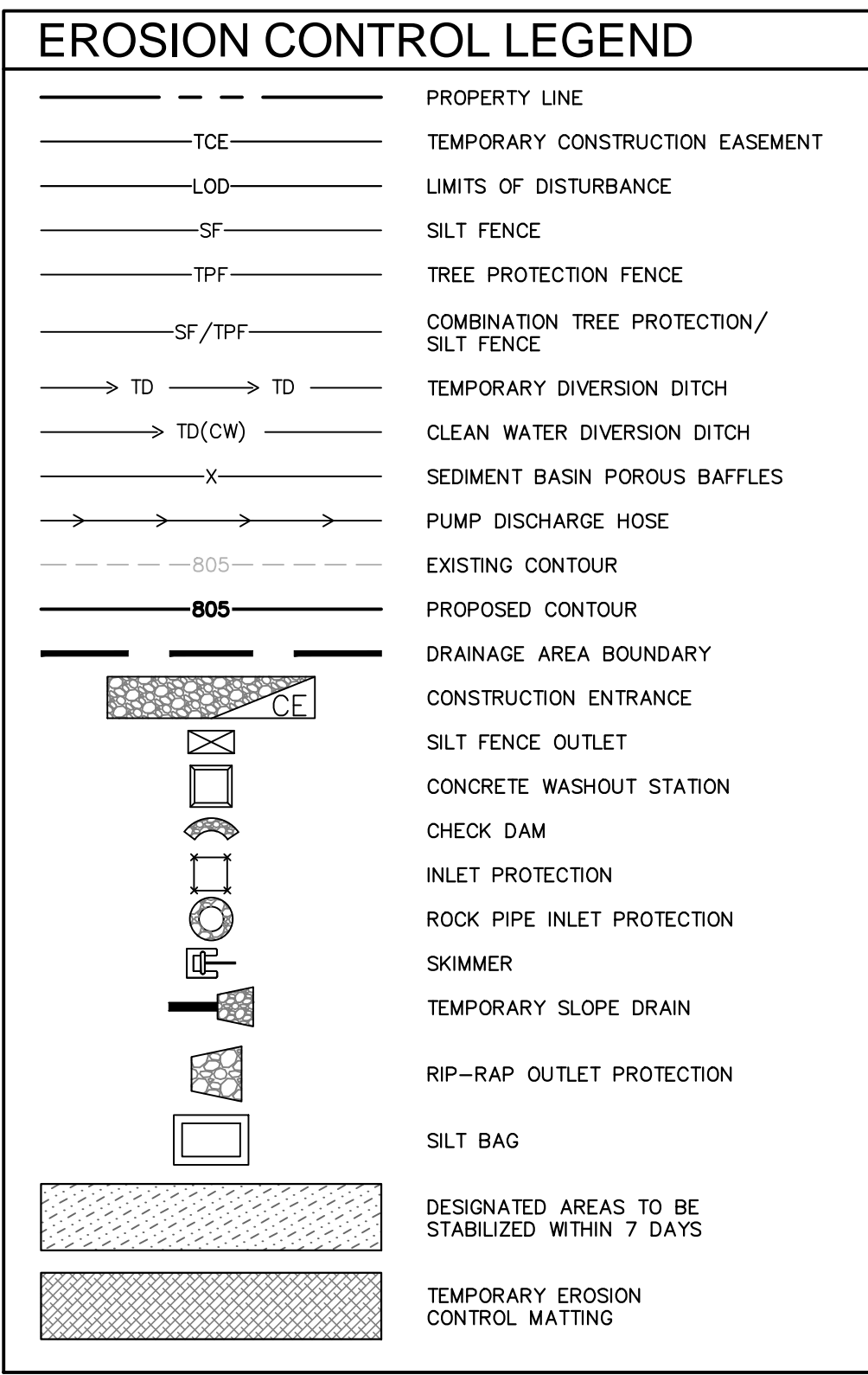
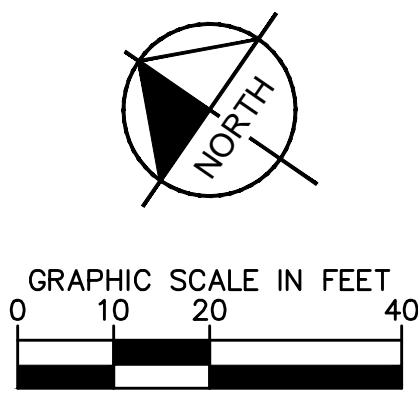
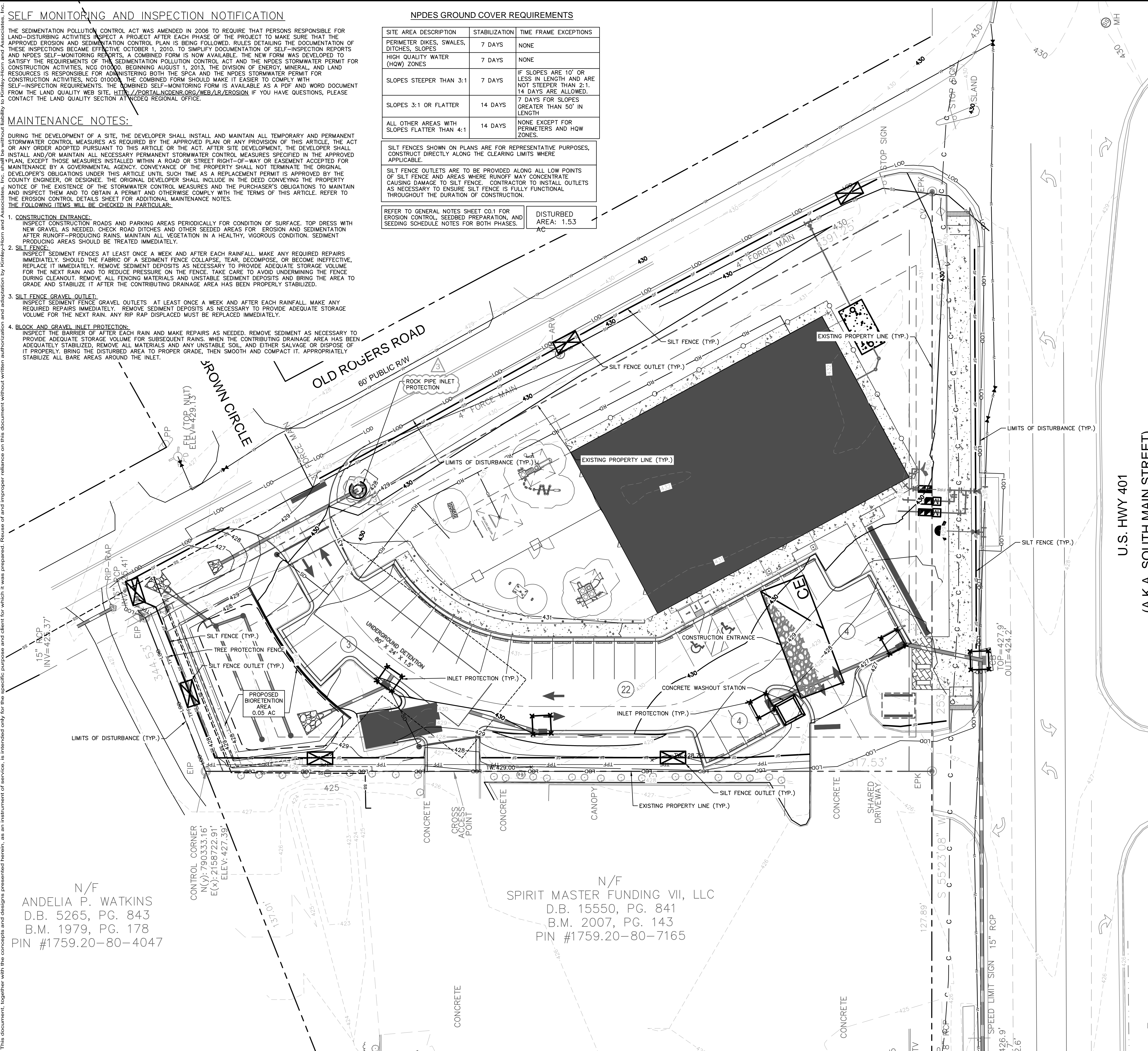
SILT FENCES SHOWN ON PLANS ARE FOR REPRESENTATIVE PURPOSES. CONSTRUCT DIRECTLY ALONG THE CLEARING LIMITS WHERE APPLICABLE.

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, SEEDING PREPARATION, AND SEEDING SCHEDULE NOTES FOR BOTH PHASES.

DISTURBED AREA: 1.53 AC

Plotted By: Barnes, Michael. Sheet Set: THE LEARNING CENTER ROLESVILLE. Layout: C5.1. EROSION CONTROL PLAN - PHASE 2. May 01, 2024. 06:21:08pm. K:\RAL\_LDE\013031004\_Rolesville\_Learning\_Center\P10\_CAD Files\PlanSheets\C502 EROSION CONTROL PLAN.dwg  
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- 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 DENUDE 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 WAKE COUNTY 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, 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.

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

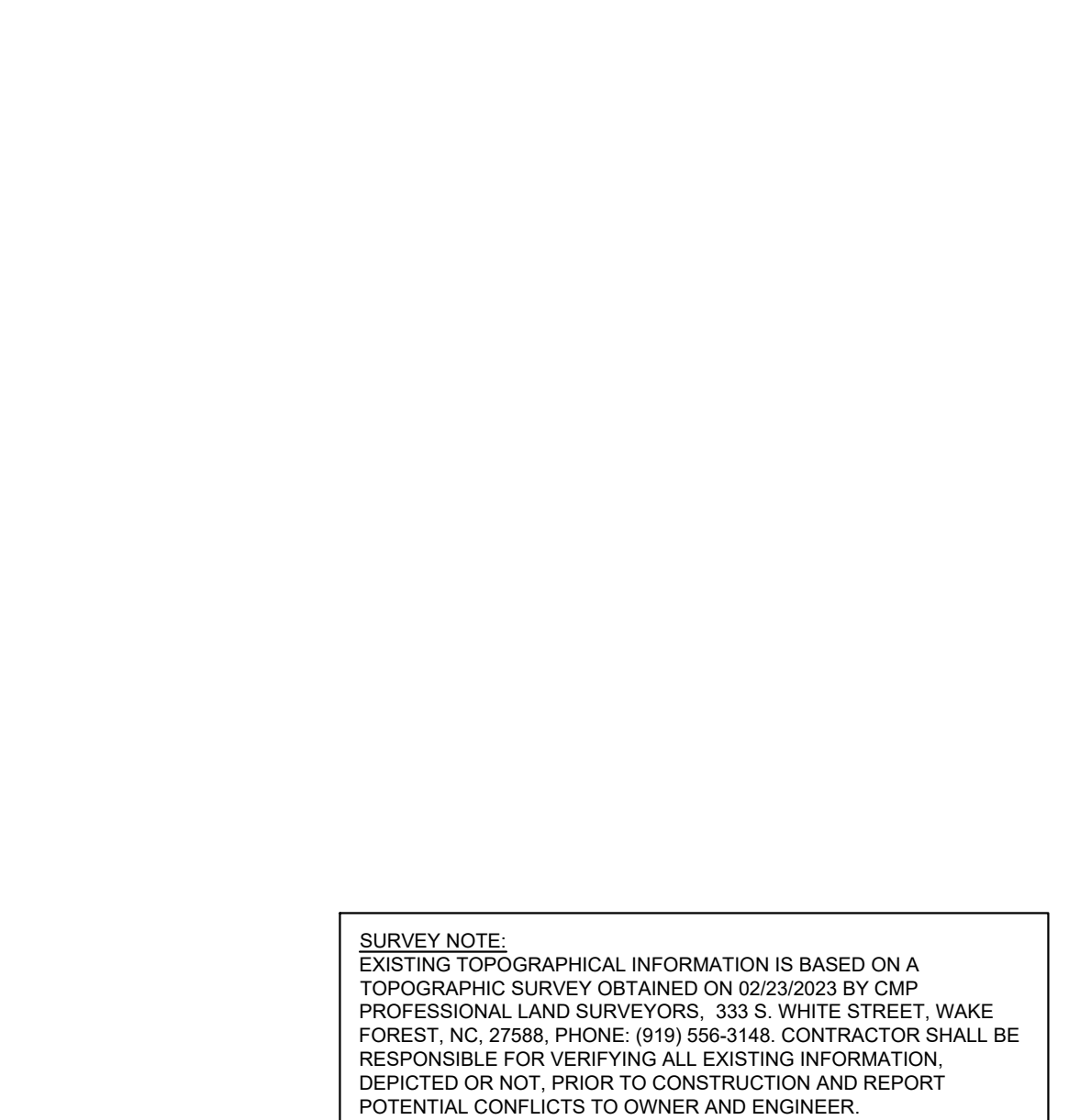
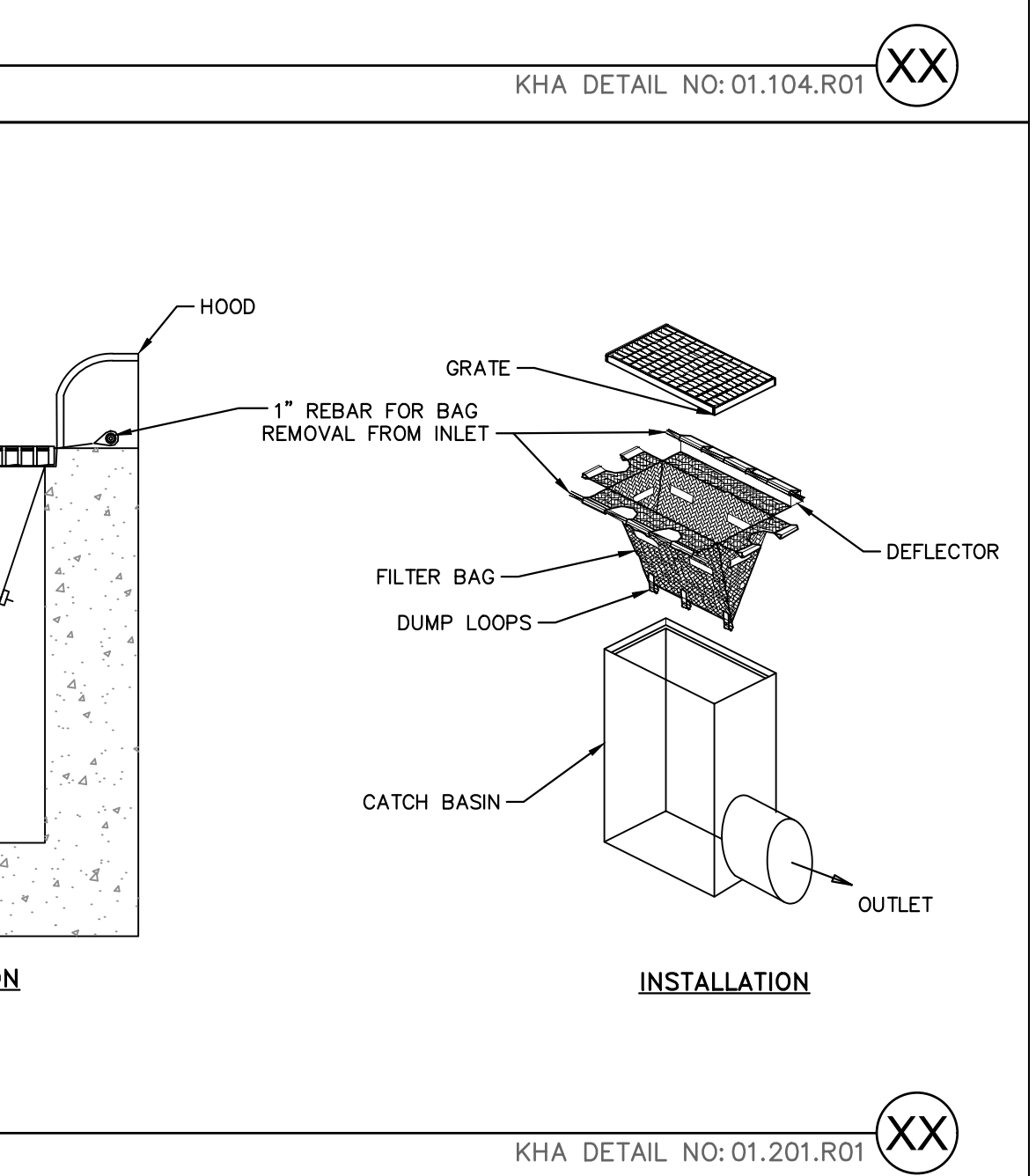
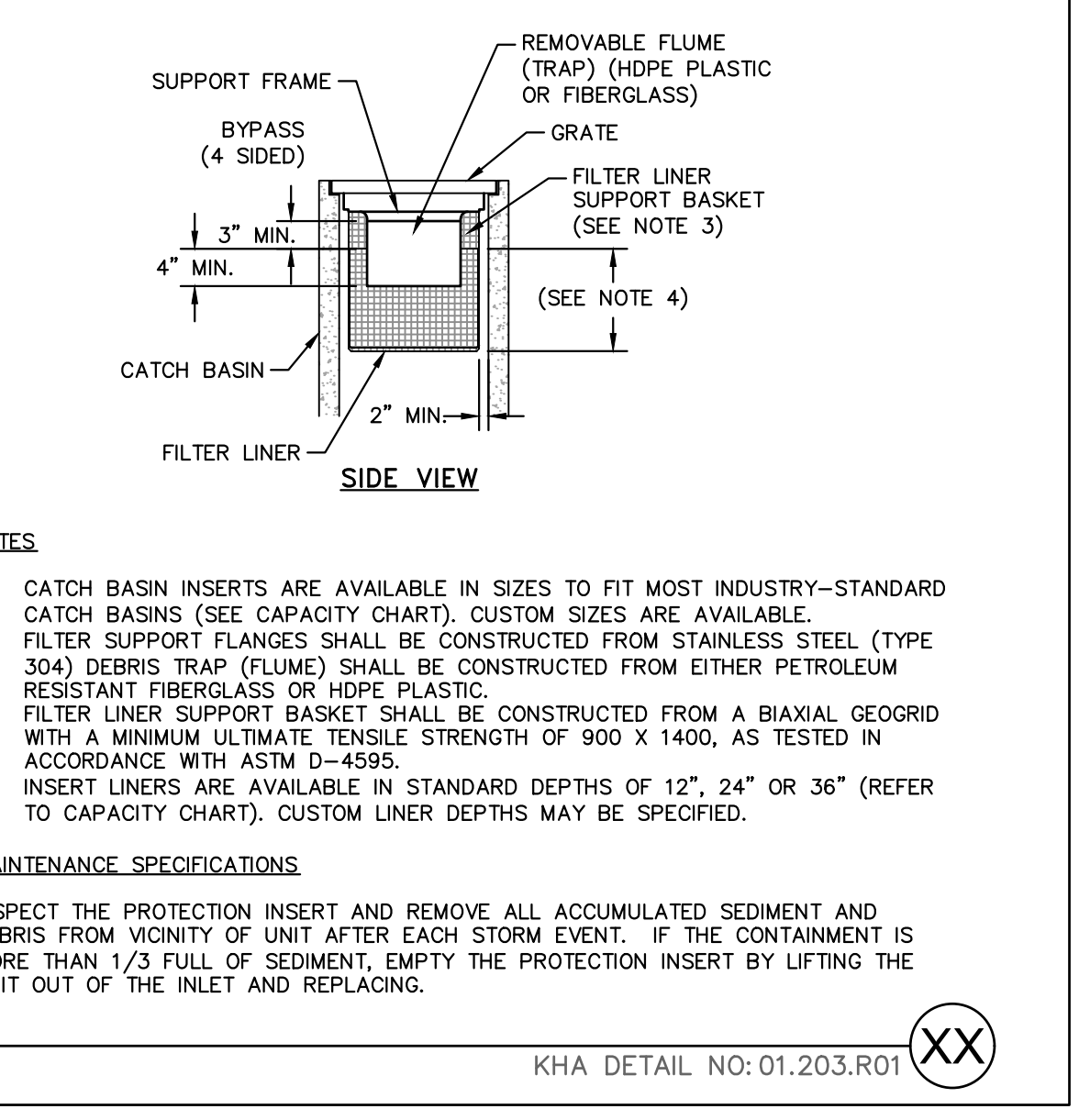
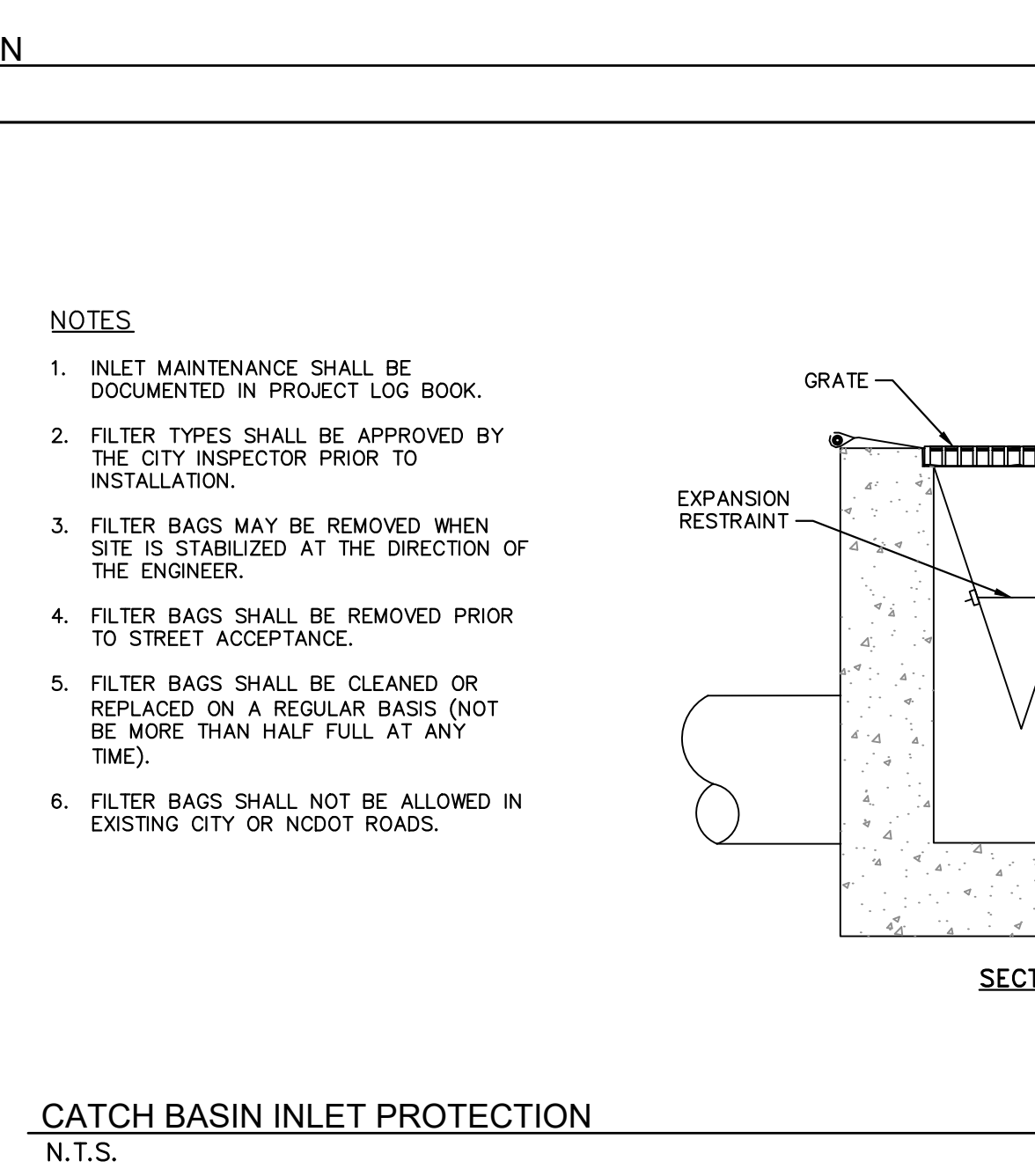
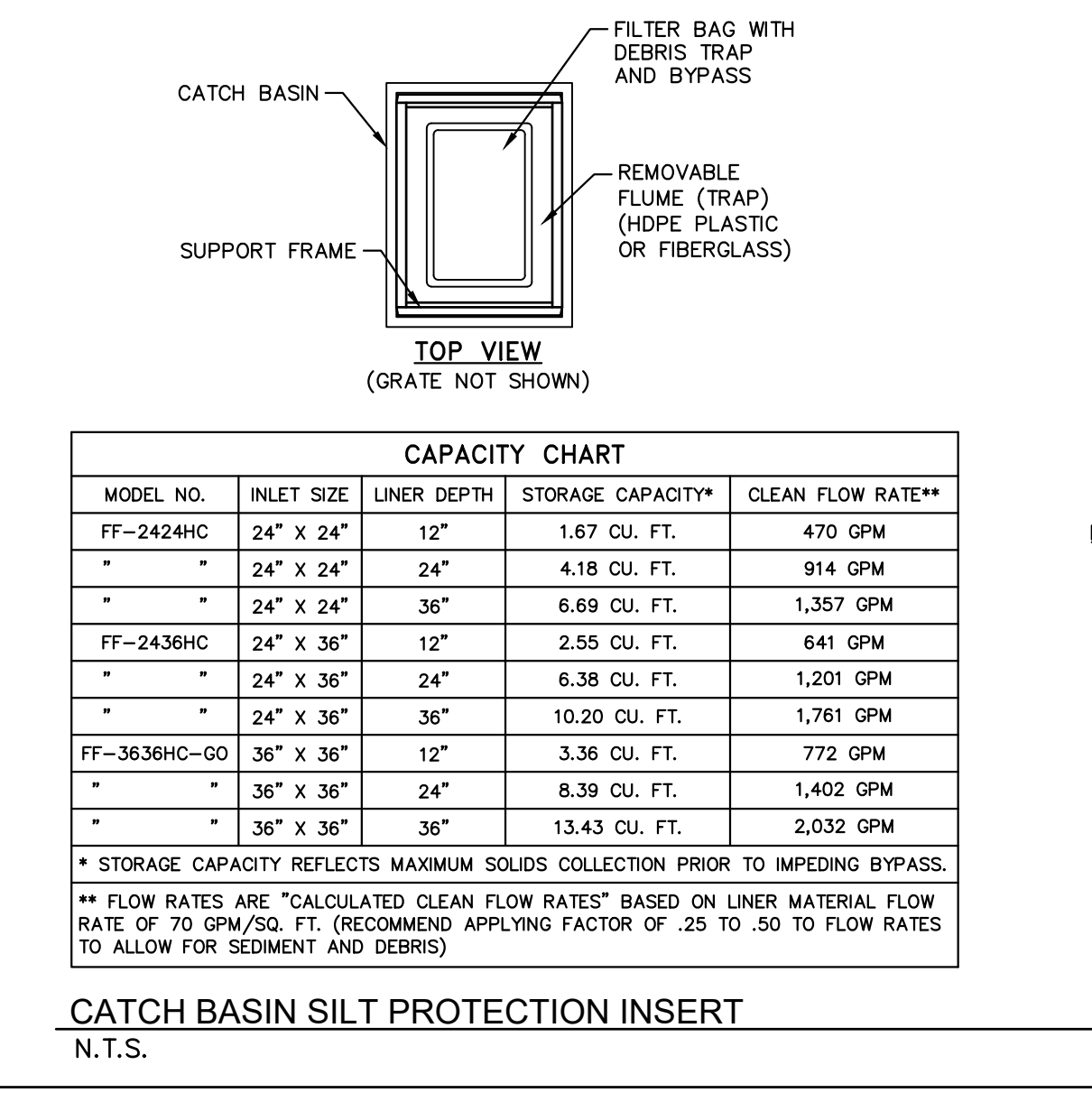
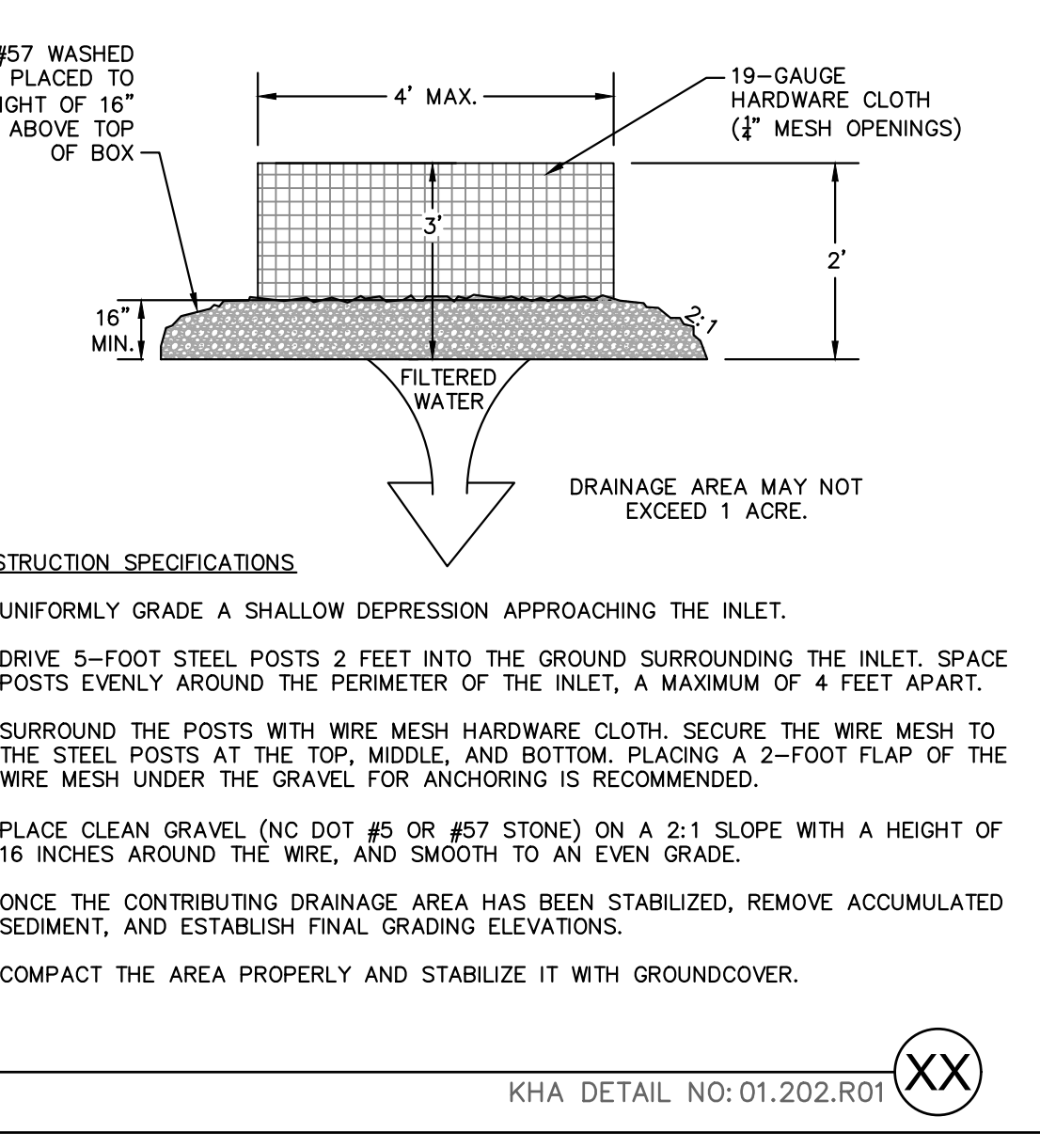
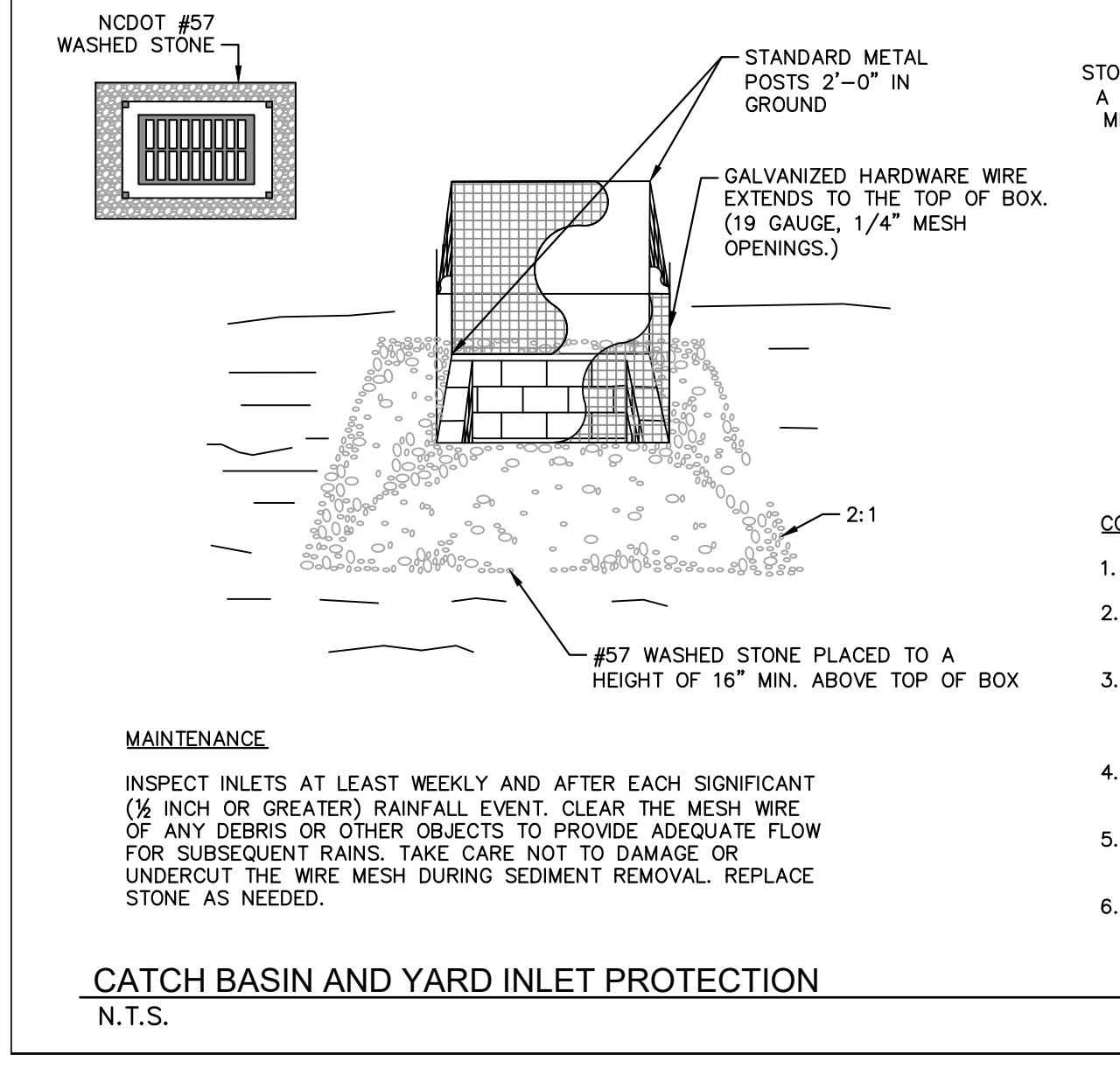
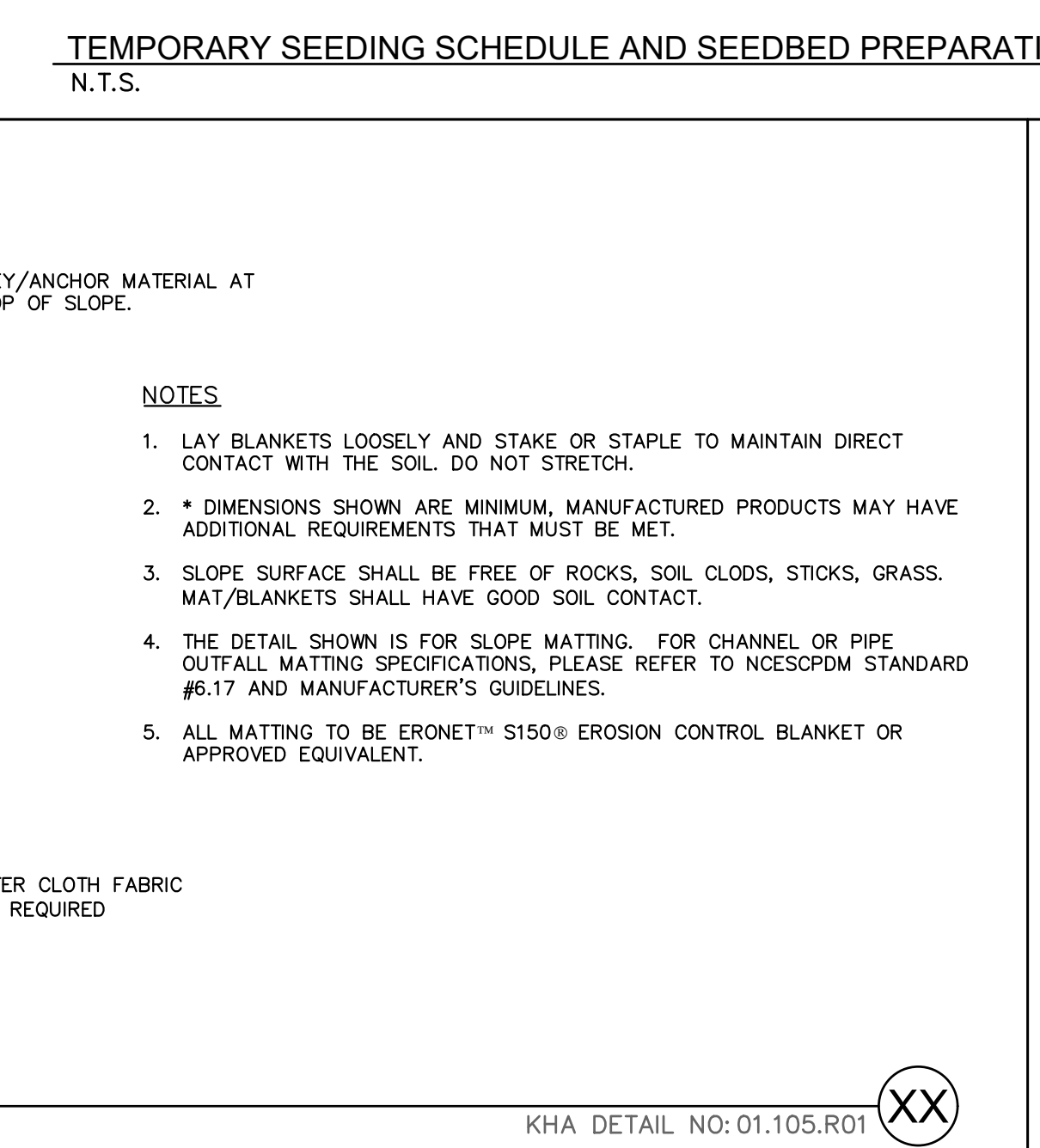
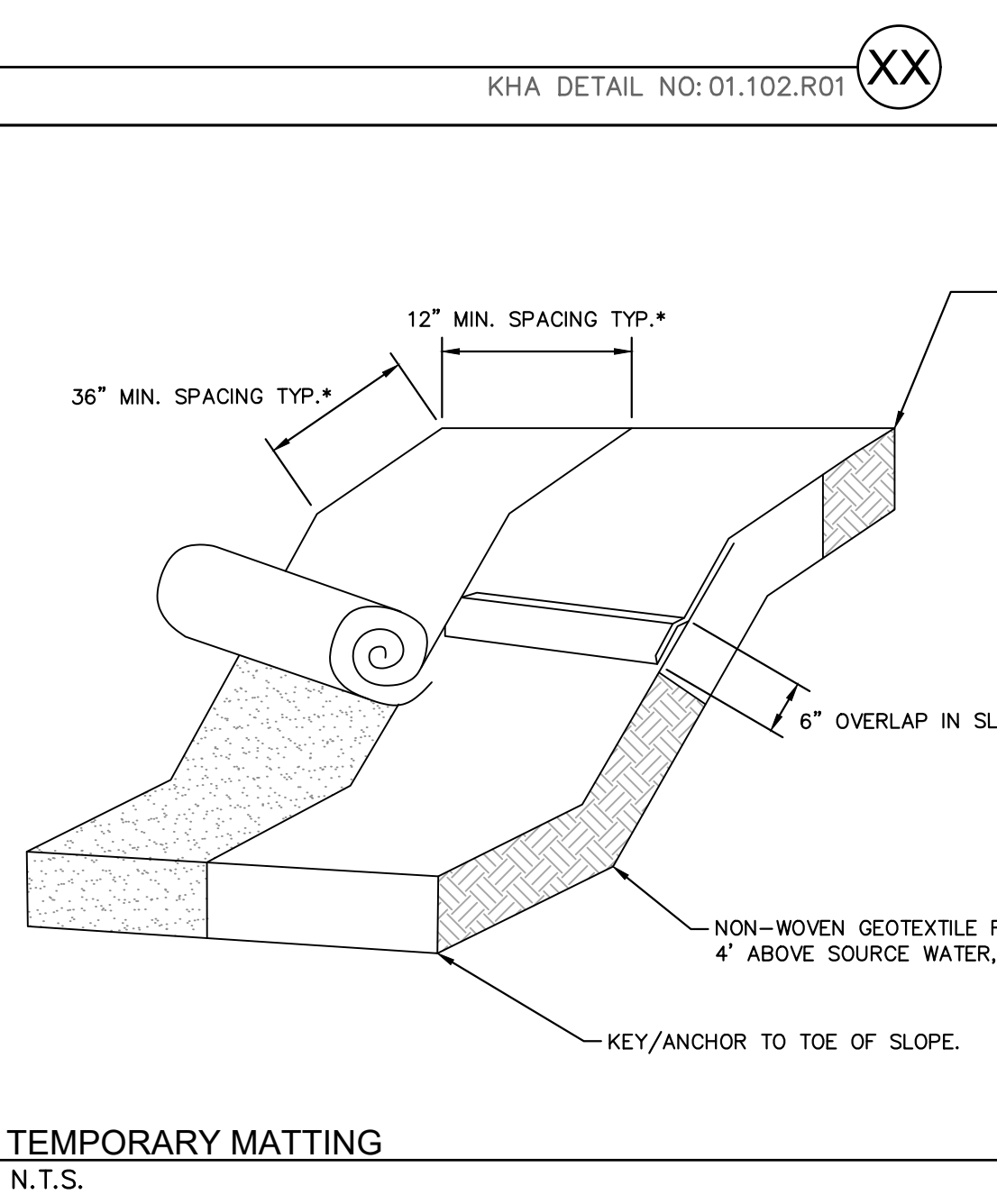
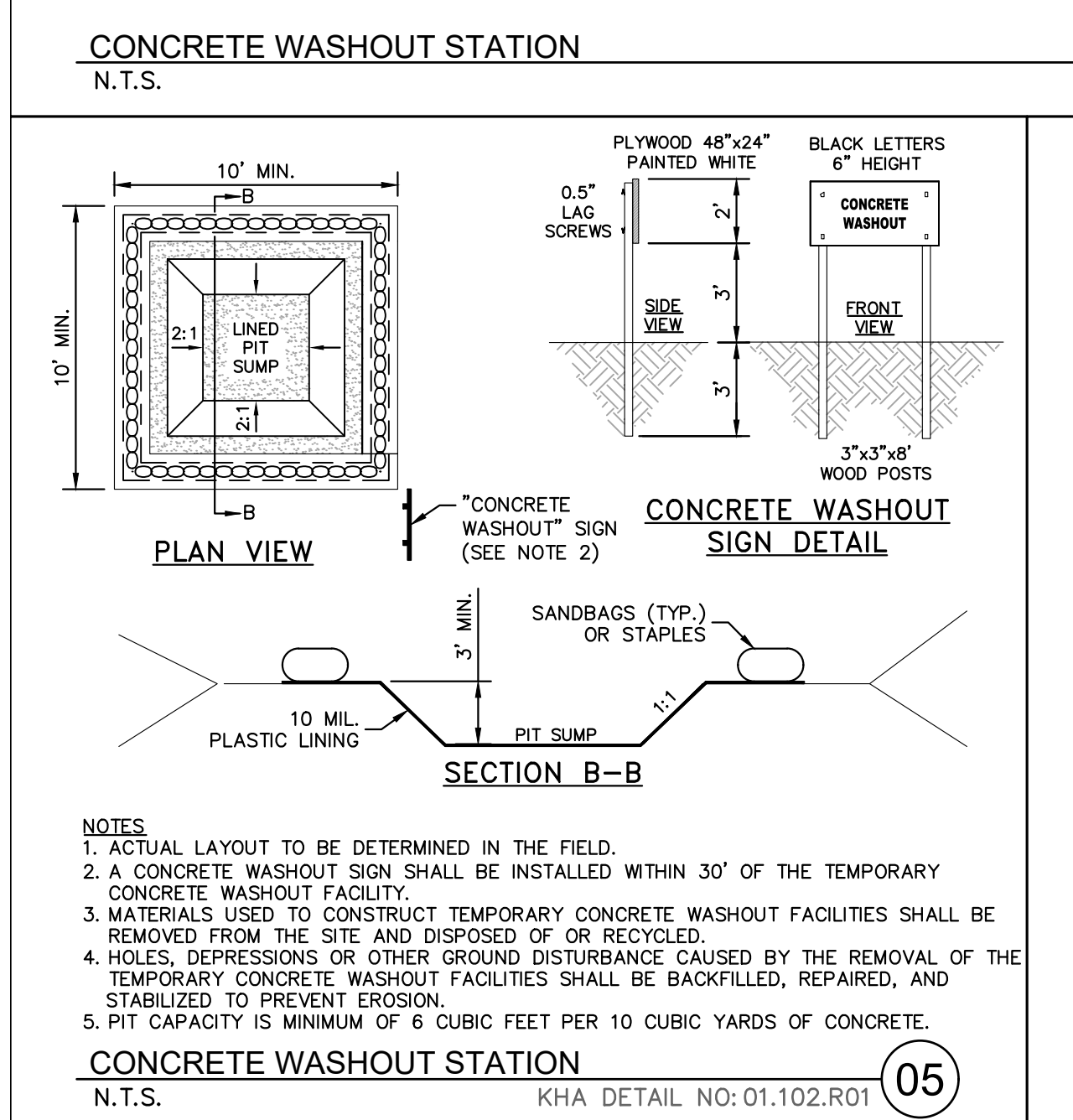
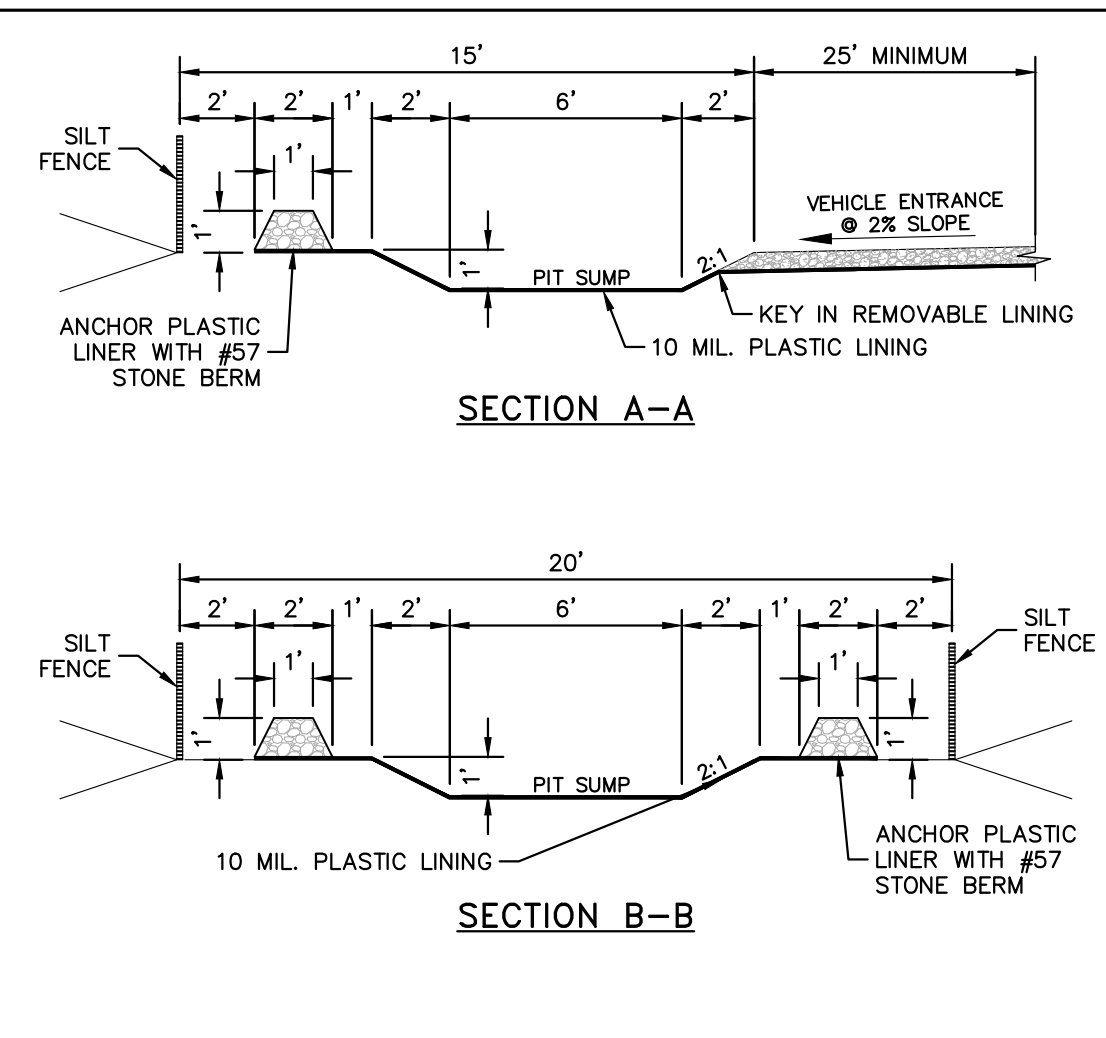
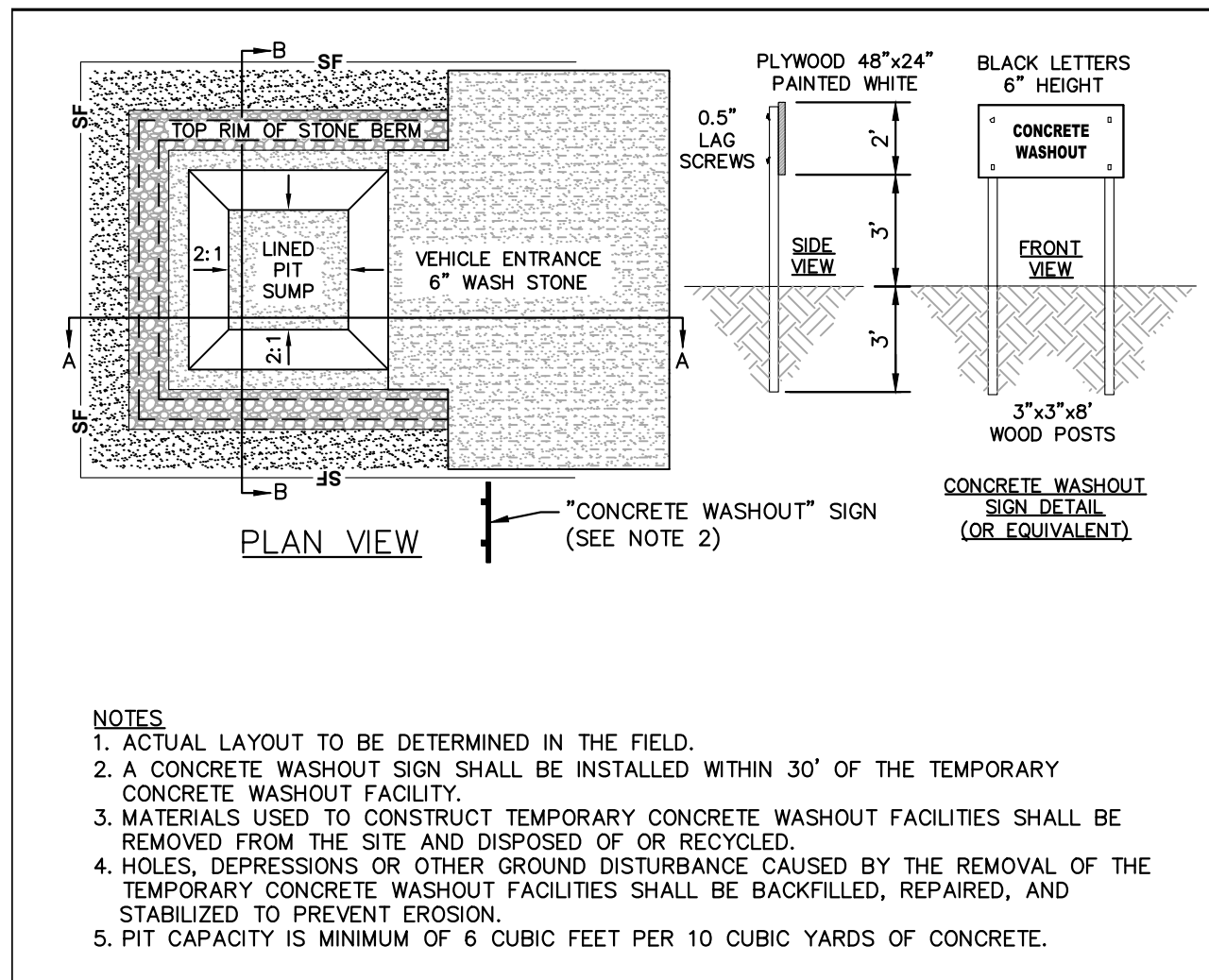


SDP-23-07

<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 400, RALEIGH, NC 27601</p>	TOWN COMMENTS JAA 05/01/2024	TOWN COMMENTS JAA 03/01/2024	TOWN COMMENTS JAA 01/02/2024	DATE
	REVISIONS No.	REVISIONS No.	REVISIONS No.	REVISIONS No.
	SHEET NUMBER C5.1	SHEET NUMBER C5.1	SHEET NUMBER C5.1	SHEET NUMBER C5.1
	THE LEARNING CENTER ROLESVILLE PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA	EROSION CONTROL PLAN - PHASE 2	EROSION CONTROL PLAN - PHASE 2	EROSION CONTROL PLAN - PHASE 2



Plotted By: Barnes, Michael. Sheet Set: THE LEARNING CENTER ROLESVILLE EROSION CONTROL DETAILS. May 01, 2024. 05:23:10pm. K:\B\AL\_LDE\013031004\_Rolesville Learning Center\PI10\_CAD Files\Sheets\CS.7 EROSION CONTROL DETAILS.dwg  
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**Kimley >>> Horn**

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#F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050  
421 FAYETTEVILLE STREET, SUITE 800, RALEIGH, NC 27601

**THE LEARNING CENTER ROLESVILLE EROSION CONTROL DETAILS**

PREPARED FOR  
**ROLESVILLE, LLC.**

TOWN OF ROLESVILLE  
NORTH CAROLINA

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

NO. 1 2 3 4 5 6 7 8 9 10 11 12

NO. 1 2 3 4 5 6 7 8 9 10 11 12

NO. 1 2 3 4 5 6 7 8 9 10 11 12

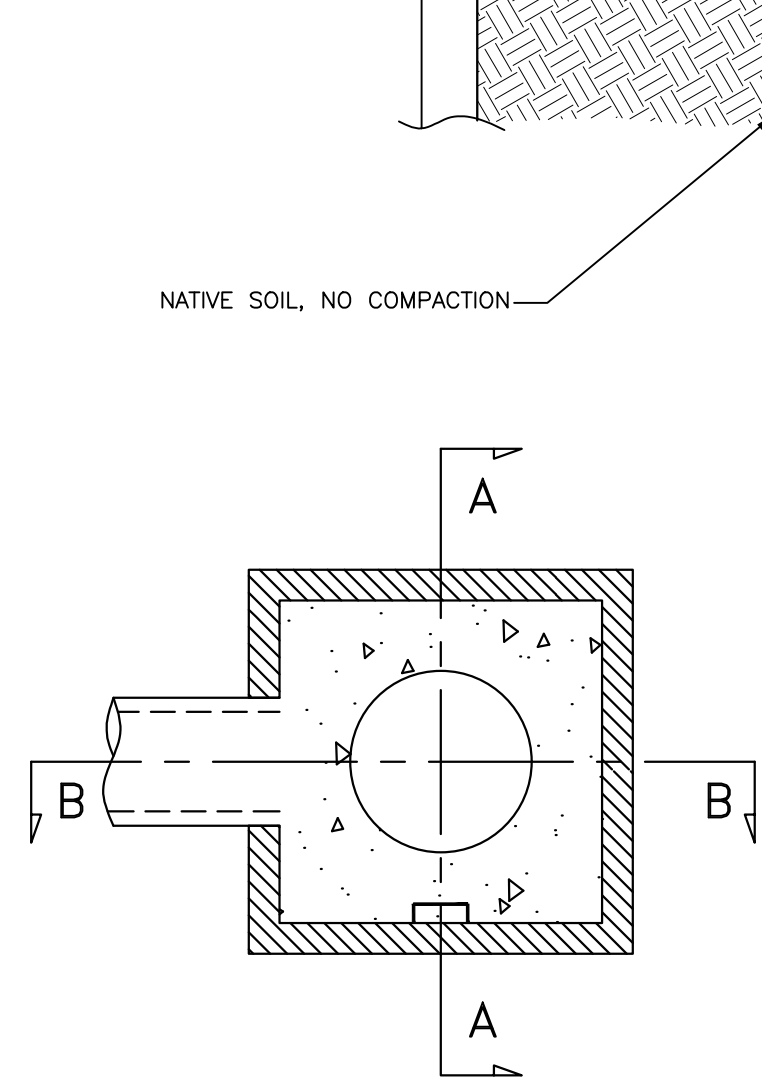
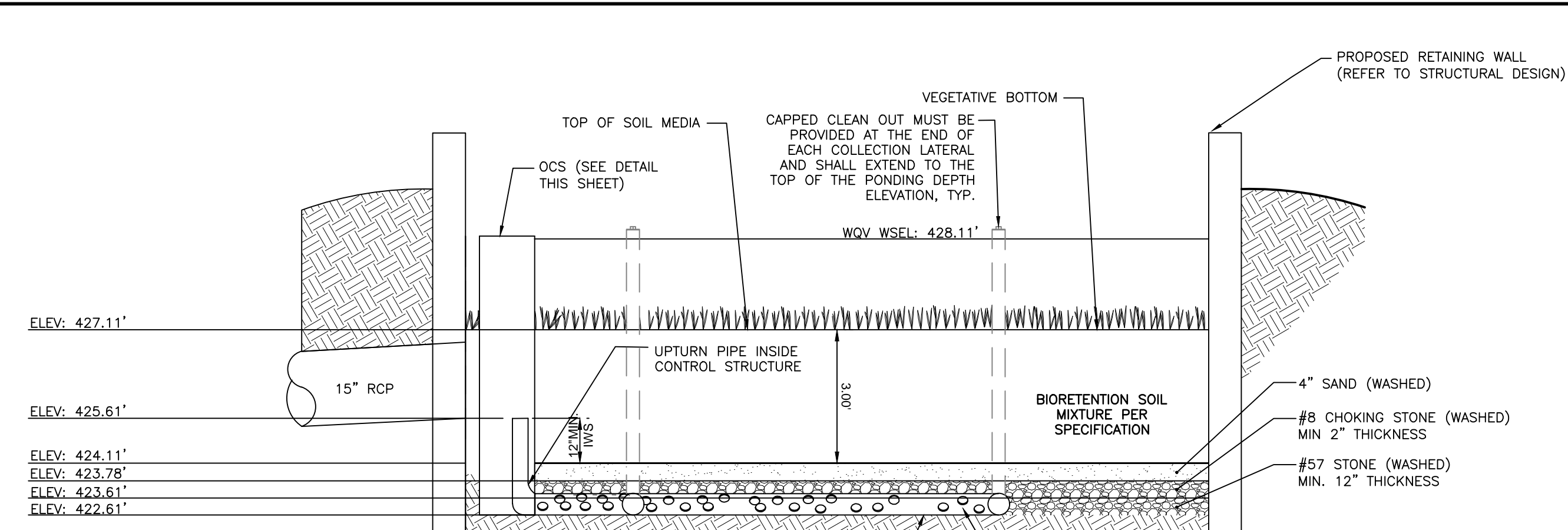
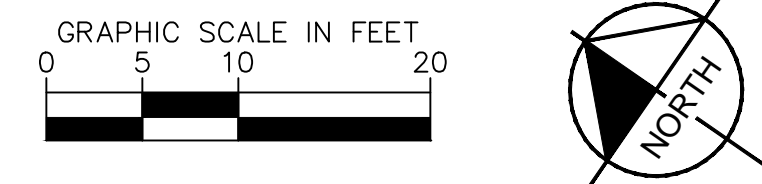
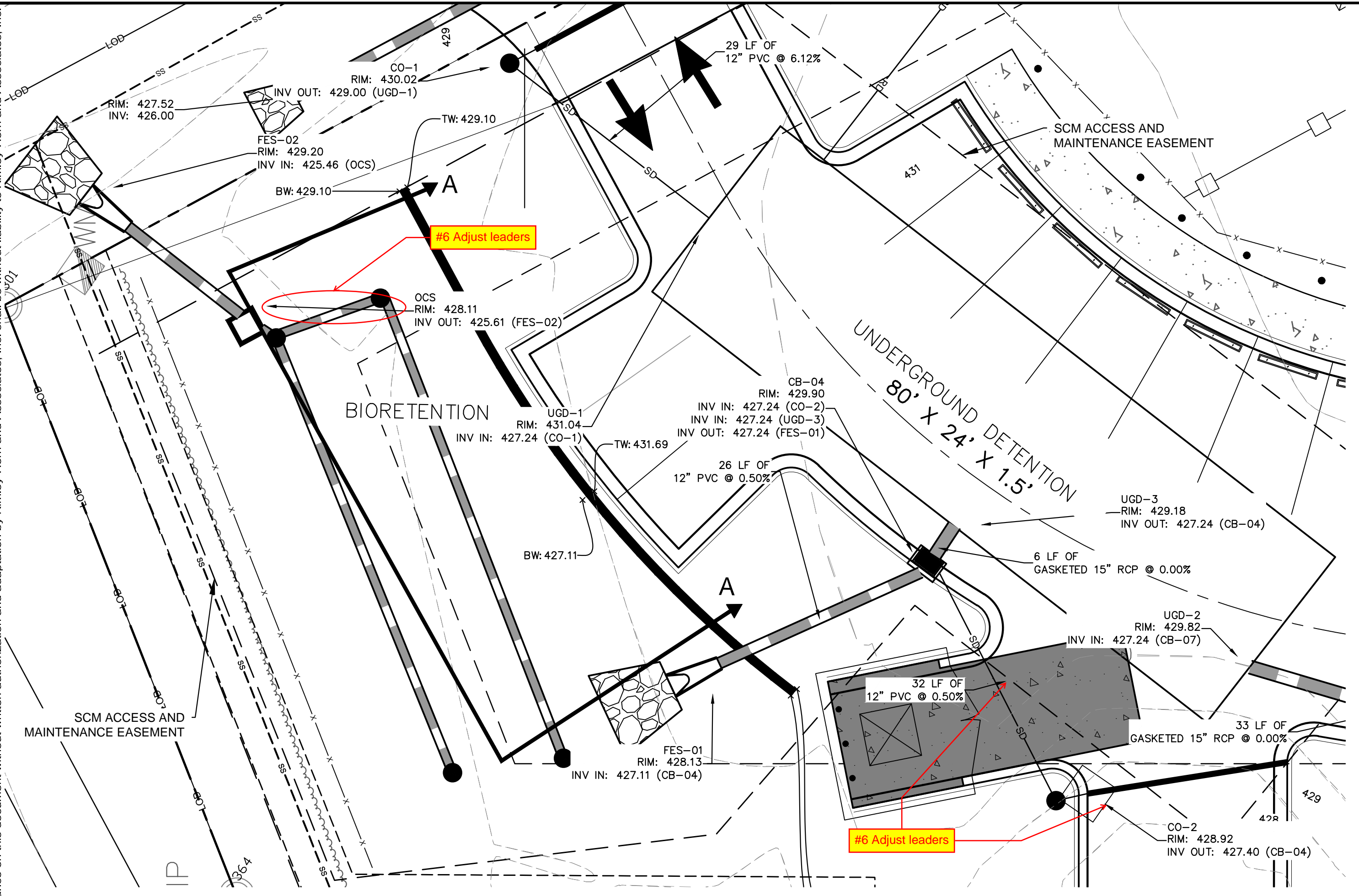








Plotted By: Barnes, Michael. Sheet Set: THE LEARNING CENTER ROLESVILLE. Layout: C6.0. UNDERGROUND DETENTION AND BIORETENTION DETAILS. May 01, 2024. 08:05:01pm. K:\RAL\_LDEV\13031004\_Rolesville\_Layouting\_Center\PTD\_CAD Files\PlanSheets\C6.0 UNDERGROUND DETENTION AND BIORETENTION DETAILS.dwg. This document, together with the concepts and designs presented herein, is an instrument of service, as 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:**  
 PONDING DEPTH: 12"  
 UNDERDRAIN TO BE 3/8" PERF. @ 6" O.C., 4 HOLES PER ROW, SLOPED AT 0.10%; MINIMUM OF 3" OF GRAVEL OVER AND ON EITHER SIDE OF PIPES; GRAVEL NOT NECESSARY UNDER PIPES.  
 UNDERDRAIN PIPES AND CLEANOUTS SHOULD BE LOCATED IN THE QUANTITY AND ELEVATION FOUND ON THE GRADING AND DRAINAGE PLAN.  
 SANDY LOAM/LOAMY SAND; FINES SHOULD BE LIMITED TO TWENTY PERCENT OR LESS PASSING THROUGH A #200 SIEVE.  
 SEASONAL HIGH WATER TABLE NOT ENCOUNTERED AT BIO-RETENTION LOCATION BEFORE BORING TERMINATION AT A DEPTH OF 10.0'  
 SOD FOR BIO-RETENTION MUST NOT HAVE BEEN GROWN IN SOIL THAT HAS AN IMPERMEABLE LAYER, SUCH AS CLAY.

**BIORETENTION SOIL MIXTURE**

ITEM	PERCENT BY WEIGHT	MATERIAL
SAND	85-88%	MEDIUM TO COARSE WASHED SAND
FINES	8-12%	SILT AND CLAY
ORGANIC MATTER	3-5%	PINE BARK FINES

- BIORETENTION MAINTENANCE NOTES:**
- BIORETENTION AREA SHOULD DRAIN DOWN IN 12 HOURS AFTER A 1" STORM. IF WATER PONDS LONGER, MAINTENANCE IS REQUIRED.
  - REMOVE SEDIMENT FROM UPSTREAM DRAINAGE AREAS SO BIORETENTION DOES NOT CLOG.
  - REMOVE TRASH REGULARLY.

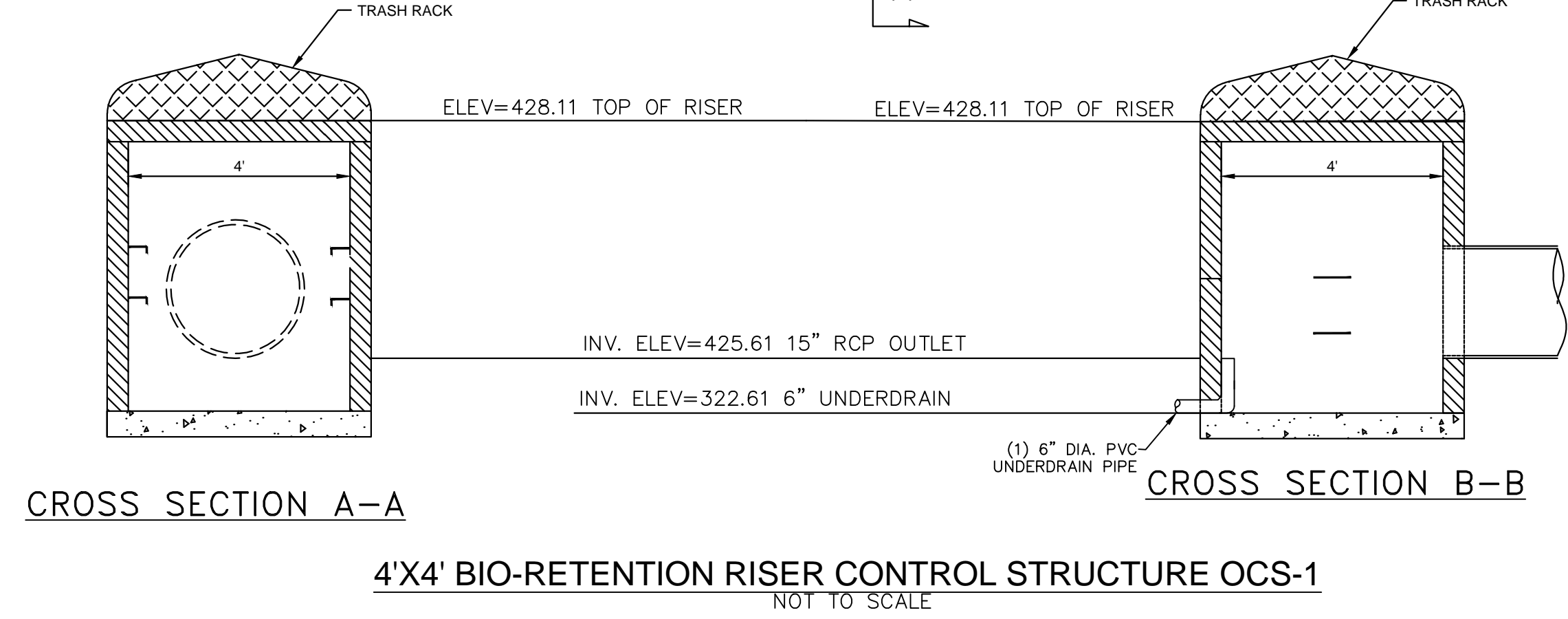
**Bioretention Soil Mixture (BSM):** shall be placed and graded using low ground-contact pressure equipment or by excavators and/or backhoes operating on the ground adjacent to the bioretention facility. No heavy equipment shall be used within the perimeter of the bioretention facility before, during, or after the placement of the BSM. The BSM shall be placed in horizontal layers not to exceed 12 inches for the entire area of the bioretention facility. The BSM shall be compacted by saturating the entire area of the bioretention facility after each lift of BSM is placed until water flows from the underdrain. Water for saturation shall be applied by spraying or sprinkling. An appropriate sediment control device shall be used to treat any sediment-laden water discharged from the underdrain. If the BSM becomes contaminated during the construction of the facility, the contaminated material shall be removed and replaced with uncontaminated material at no additional cost to the Owner. Final grading of the BSM shall be performed after a 24-hour setting period. Final elevations shall be within 2 inches of elevations shown on the Contract Plans.

The Bioretention Soil Mixture (BSM) shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches excluding mulch. No other materials or substances shall be mixed or dumped within the bioretention area that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations.

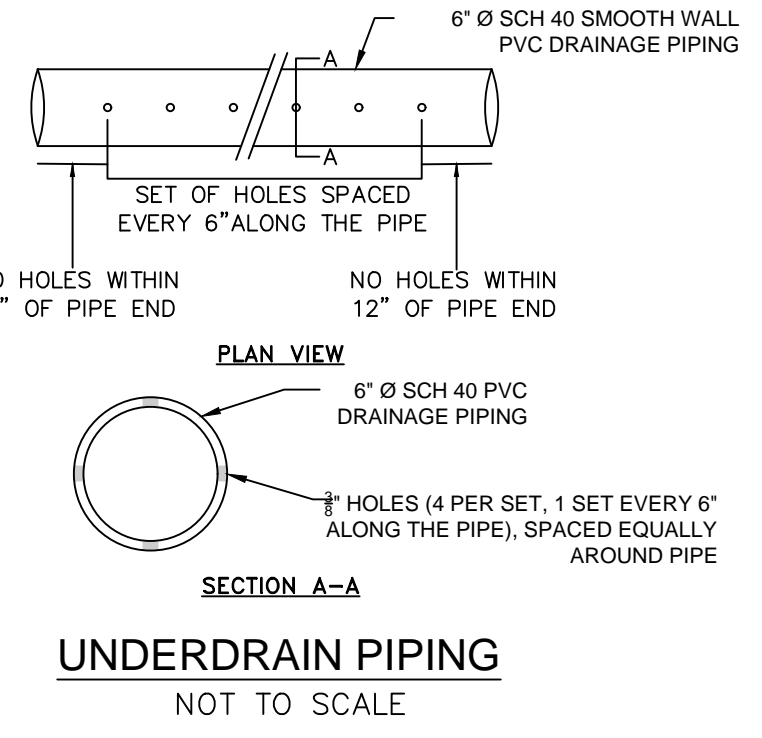
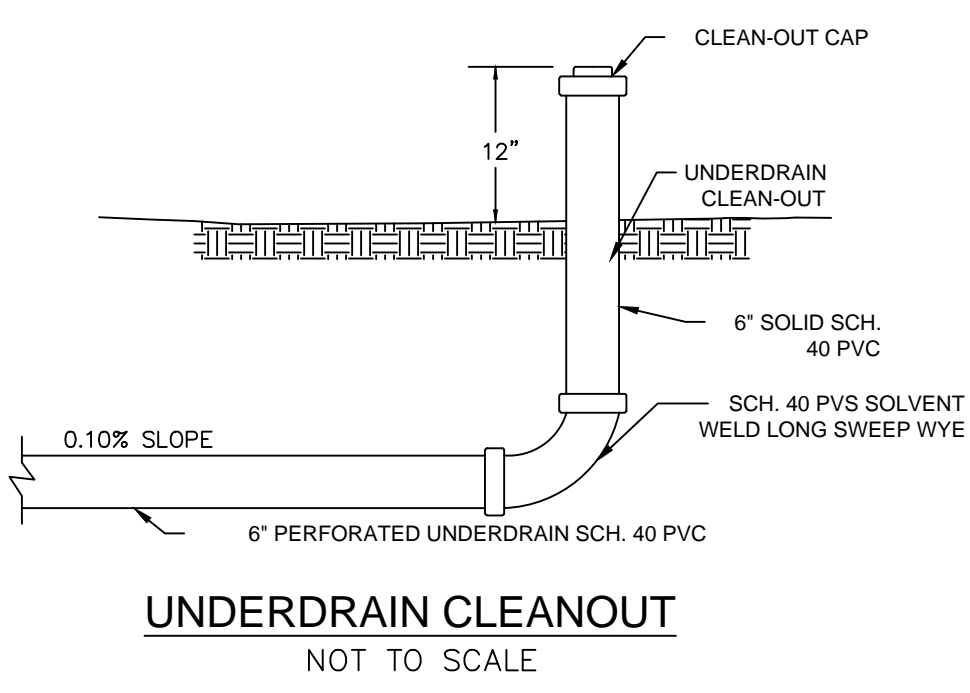
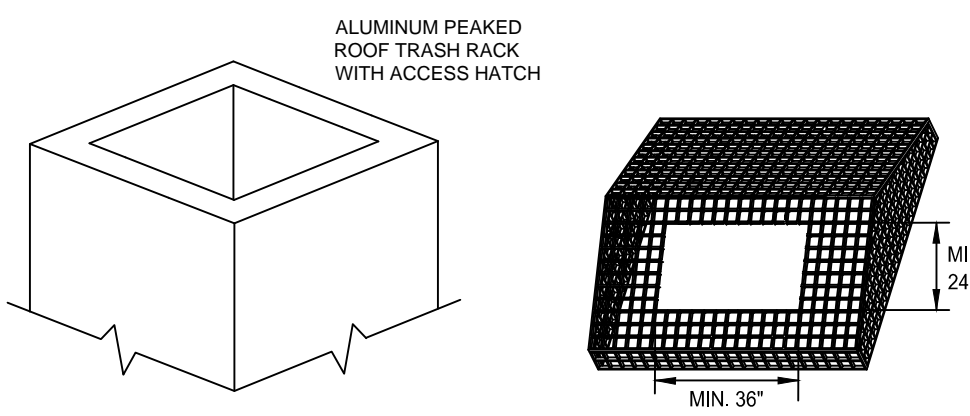
Prior to placing the underdrain and the BSM, the bottom of the excavation shall be roto-tilled to a minimum depth of 6 inches to alleviate any compaction of the facility bottom. Any substitute method for roto-tilling must be approved by the Engineer prior to use. Any ponded water shall be removed from the bottom of the facility and the soil shall be friable before roto-tilling.

Native grasses shall be used in bioretention area.  
 Grassed sod must not be grown in soil with an impermeable (clay) layer.  
 BSM must have a P-index of 10 to 30.

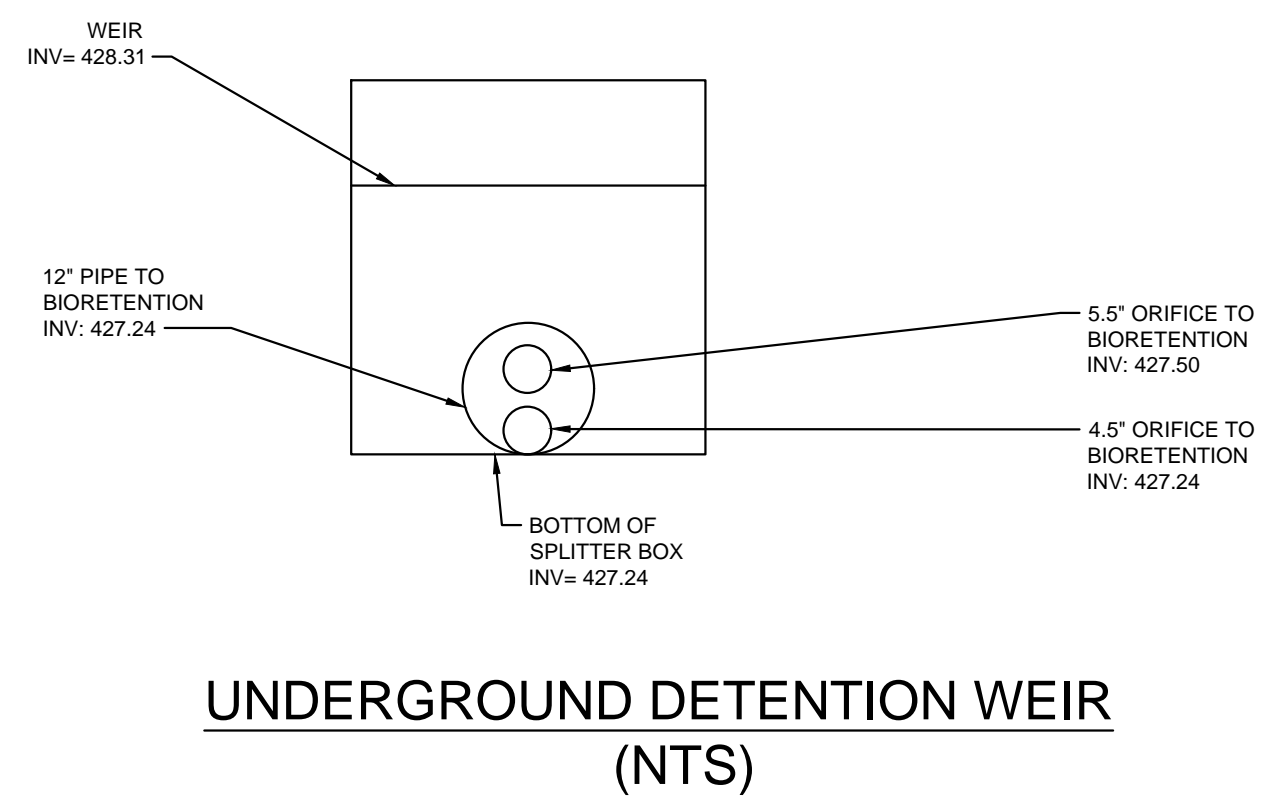
**NOTE:**  
 OUTLET/RISER STRUCTURE TO BE CONSTRUCTED OF REINFORCED CONCRETE, TYPICAL.



**GENERAL NOTES:**  
 PRINCIPAL SPILLWAY PIPES SHALL BE A MINIMUM OF 15 INCHES IN DIAMETER, SHALL BE REINFORCED CONCRETE, AND SHALL HAVE A MINIMUM PIPE STRENGTH CONFORMING TO AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C-76, CLASS III STANDARDS.  
 THE RUBBER GASKETED JOINT PIPE SHALL ALSO BE WRAPPED WITH A LAYER OF GEOTEXTILE FILTER FABRIC ON THE OUTSIDE OF THE PIPE AT EACH JOINT. THE FABRIC SHALL MEET MCDOT SPECIFICATIONS FOR TYPE II FILTER FABRIC SEE SECTION 1054 (TABLE 1056-1) IN THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S 2012 EDITION OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. THE FABRIC WRAP SHALL BE BETWEEN TWO AND THREE FEET WIDE, SHALL BE CENTERED OVER EACH PIPE JOINT, AND SHALL COVER A MINIMUM OF ONE-FOOT LENGTH OF EACH PIPE SEGMENT.  
 RISER STRUCTURES CONSTRUCTED WITH MULTIPLE BARREL SECTIONS SHALL HAVE WATER-TIGHT JOINTS, AND EACH SECTION SHALL BE BOLTED TO ADJACENT SECTIONS WITH STAINLESS STEEL STRIPS AND HARDWARE.  
 CLOSED SYSTEM RISER STRUCTURES (RISER STRUCTURES WHICH OUTLET INTO A CLOSED CONVEYANCE SYSTEM) WITH MULTIPLE BARREL SECTIONS SHALL HAVE GASKETED JOINTS, AND EACH SECTION SHALL BE BOLTED TO ADJACENT SECTIONS WITH STAINLESS STEEL STRIPS AND HARDWARE.  
 A CONCRETE CURTAIN WALL A MINIMUM OF EIGHTEEN INCHES (18") IN DEPTH OR TO THE BOTTOM OF THE RIP RAP ENERGY DISSIPATION, WHICHEVER IS GREATER, IS REQUIRED FOR THE INLET AND OUTLET PIPE ENDWALLS. THE CURTAIN WALL SHALL BE A MINIMUM OF SIX INCHES (6") IN WIDTH AND SHALL BE INTEGRAL TO THE DESIGN AND CONSTRUCTION (E.G. THERE MUST BE A BOND BETWEEN THE CURTAIN WALL AND THE FES/ENDWALL).  
 AN AS-BUILT ACCEPTABLE TO THE CITY OF DURHAM SHALL BE PROVIDED FOR THIS BIO-RETENTION CELL. ONLY COVER ITEMS AND PROCEED TO THE NEXT STEP IN THE CONSTRUCTION SEQUENCE AFTER INSPECTION AND APPROVAL FROM THE OWNER'S CERTIFYING AGENT OR THE CITY INSPECTOR.  
 BIO-RETENTION AREA TO BE COMPLETELY FREE OF SEDIMENT ACCUMULATED FROM TEMPORARY SEDIMENT TRAP PRIOR TO INSTALLATION OF BIO-RETENTION FILTER MEDIA. BIO-RETENTION FILTER MEDIA SHALL NOT BE INSTALLED UNTIL ENTIRE DRAINAGE AREA TO THE BIO-RETENTION AREA IS FULLY STABILIZED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF FILTER MEDIA IF CONTAMINATION WITH SILT/FINES OCCURS.

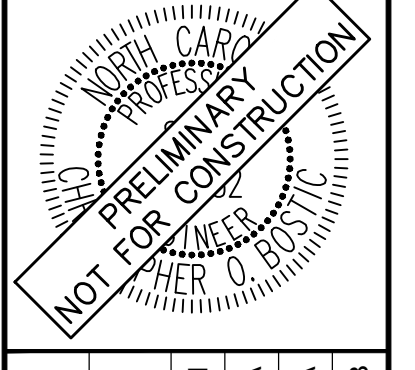


- NOTES:**  
 MUST HAVE A MINIMUM ROOF SLOPE OF 2:1.  
 SHALL INCLUDE A ACCESS HATCH WITH A MINIMUM CLEAR SPACE OPENING OF 2'x2'.  
 THE ACCESS HATCH SHALL ALIGN WITH THE ACCESS STEPS INSIDE THE STRUCTURE.  
 HATCH MAY BE SECURED BY LOCK AND CHAIN.  
 SHALL BE BOLTED TO THE TOP OF THE STRUCTURE (BOLTS IN SHEAR SHALL BE PROHIBITED).  
 SHALL BE GALVANIZED PRIMED OR PAINTED.  
 BOLTS SHALL BE STAINLESS STEEL.



No.	REVISIONS	DATE	BY
1	TOWN COMMENTS	05/01/2024	JAA
2	TOWN COMMENTS	03/01/2024	JAA
3	TOWN COMMENTS	01/02/2024	JAA

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

**UNDERGROUND DETENTION AND BIORETENTION DETAILS**

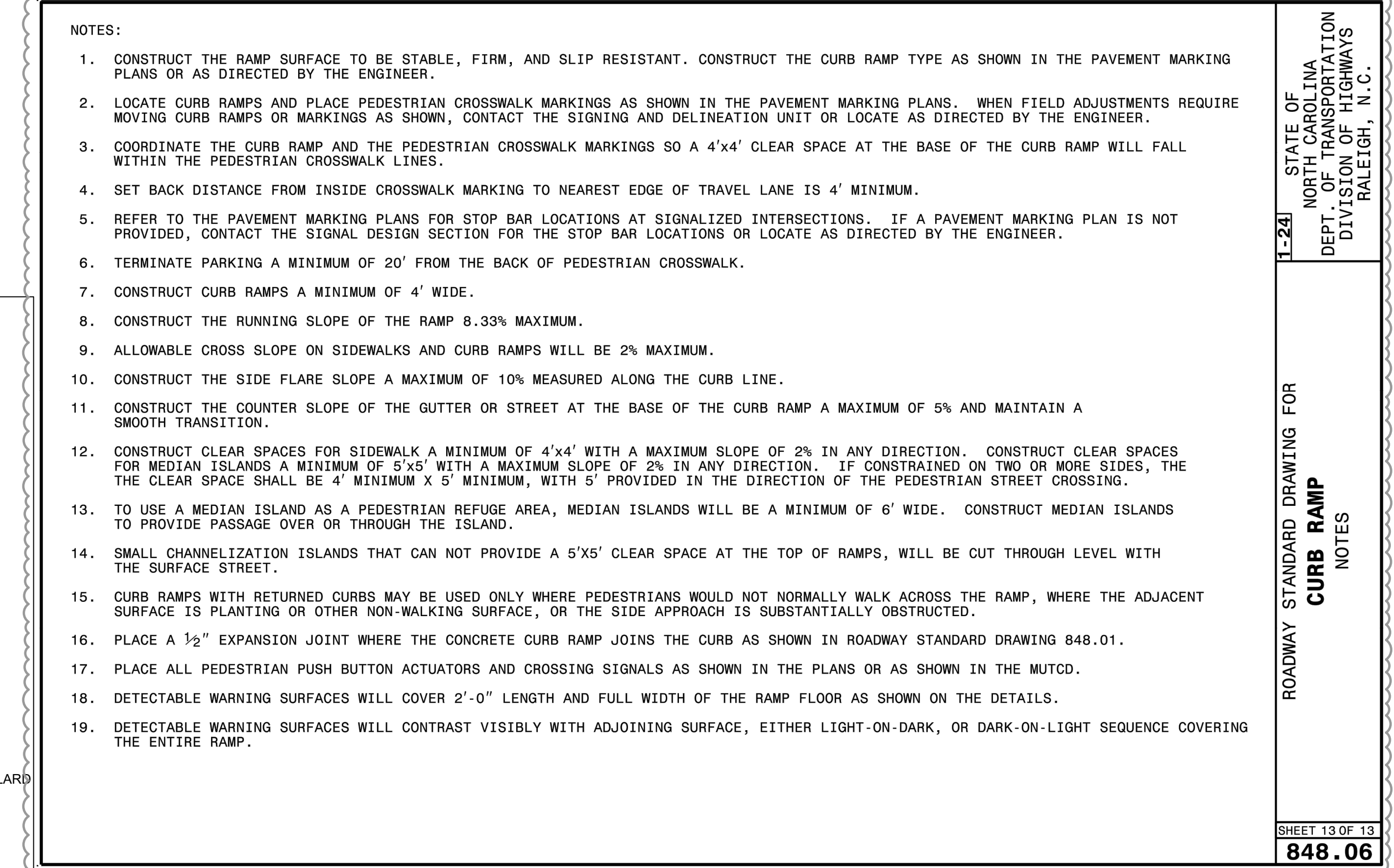
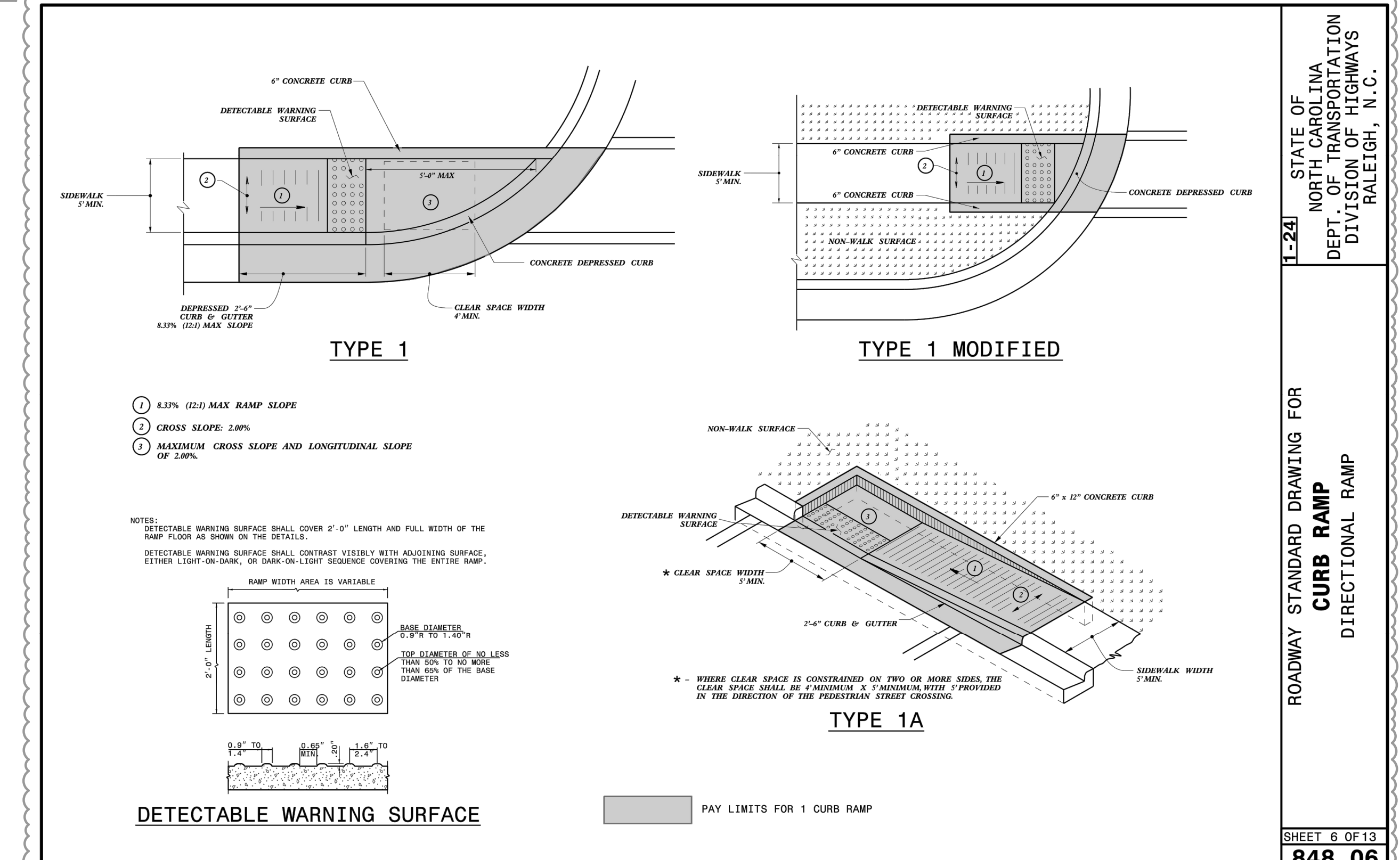
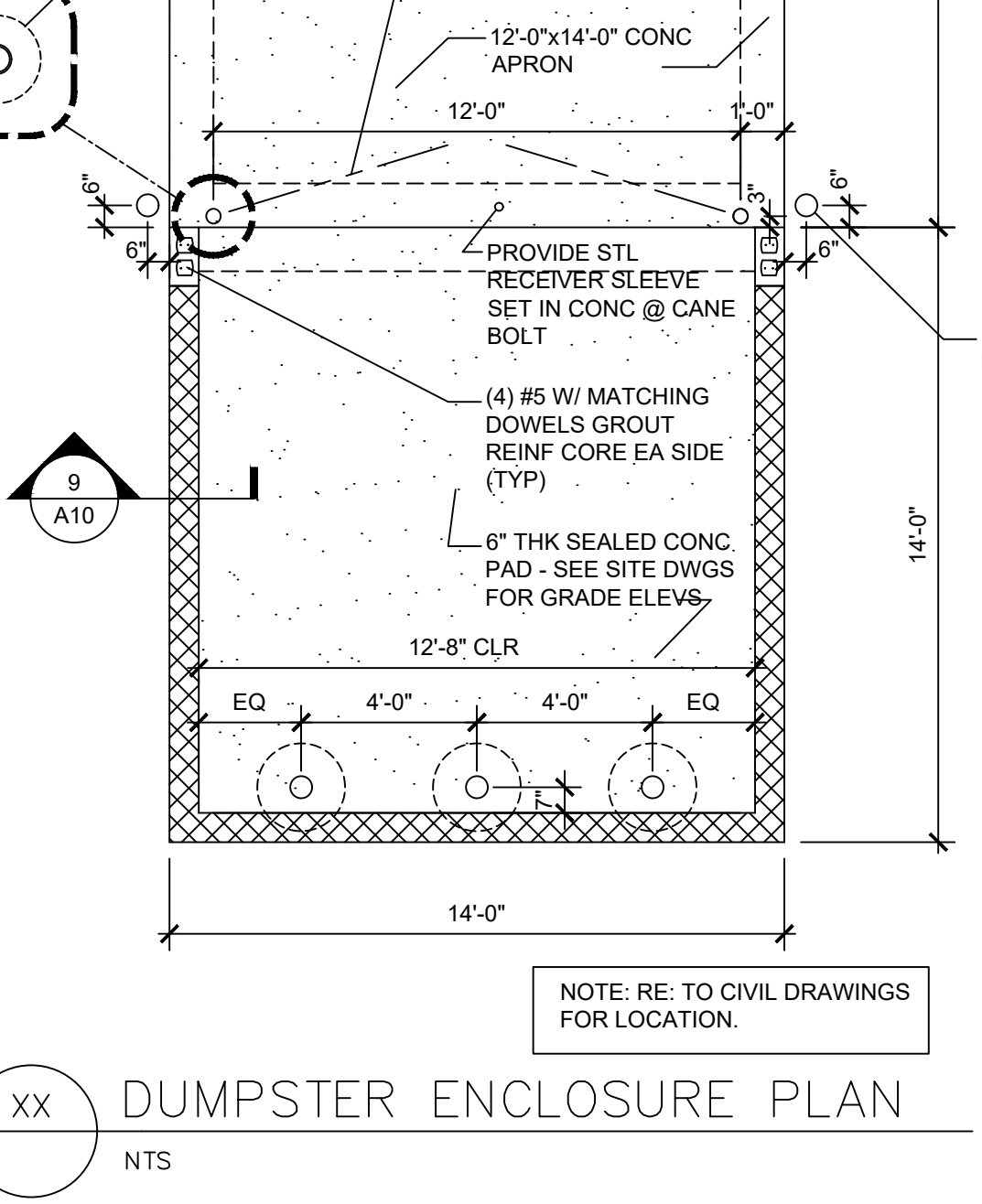
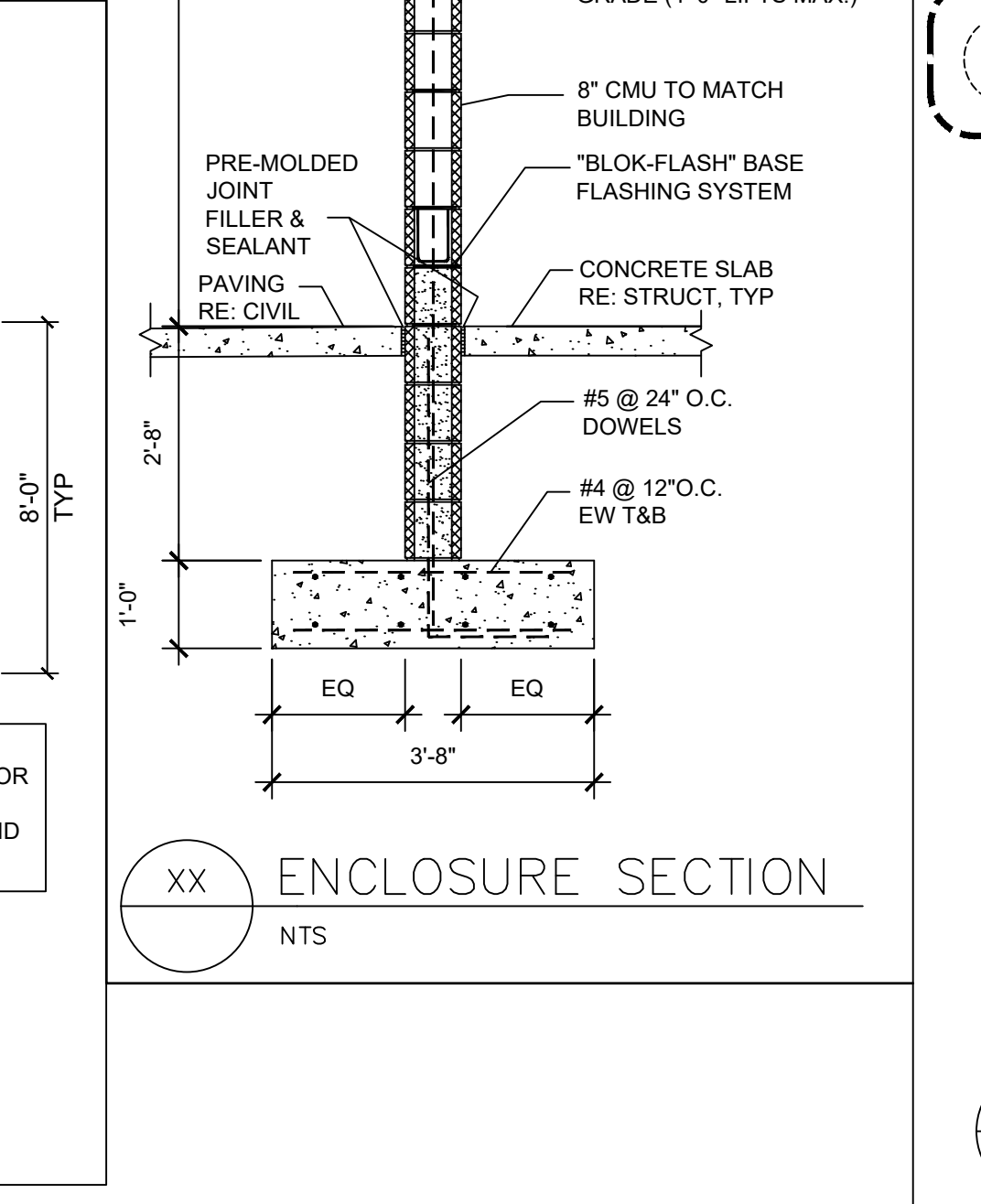
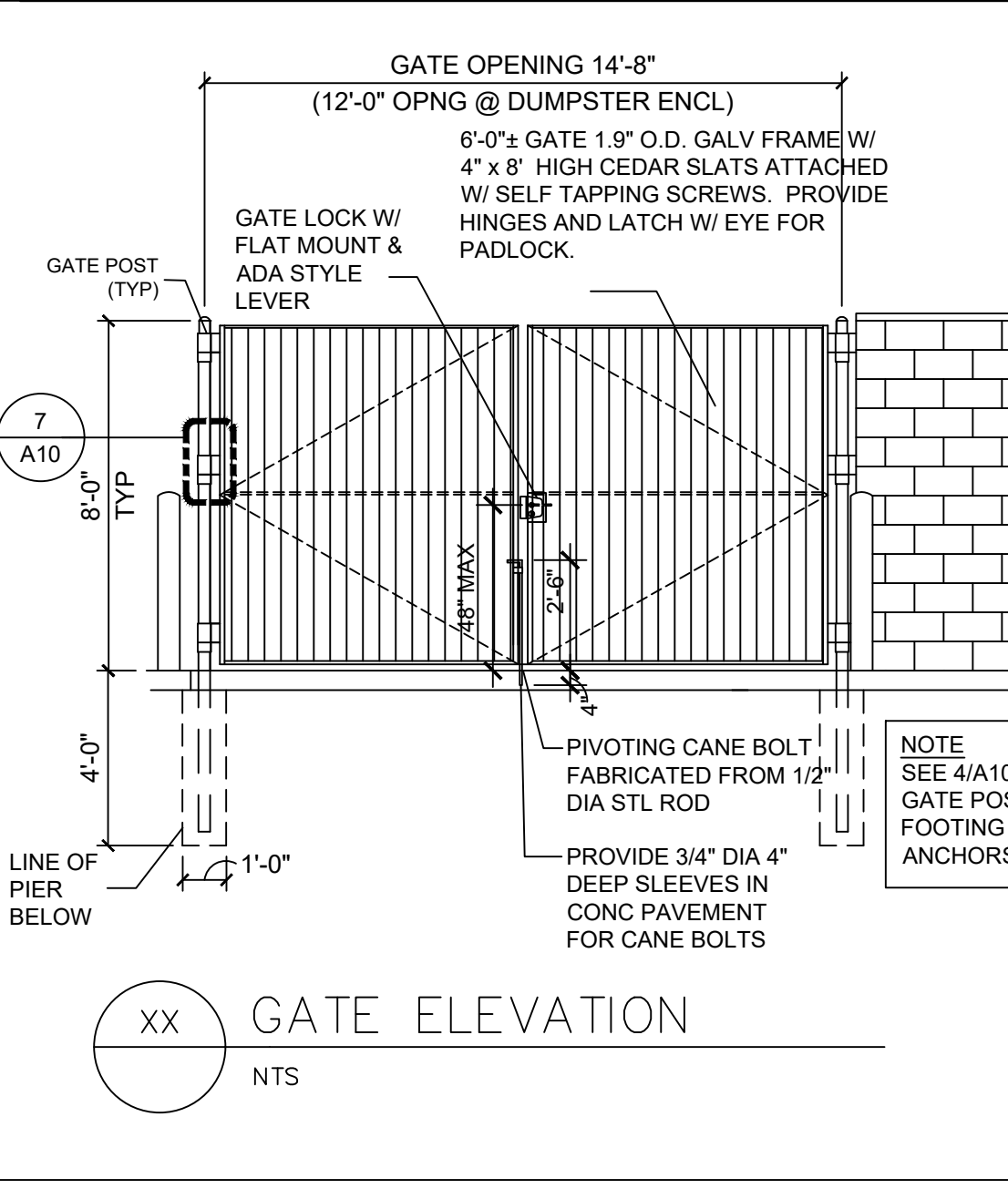
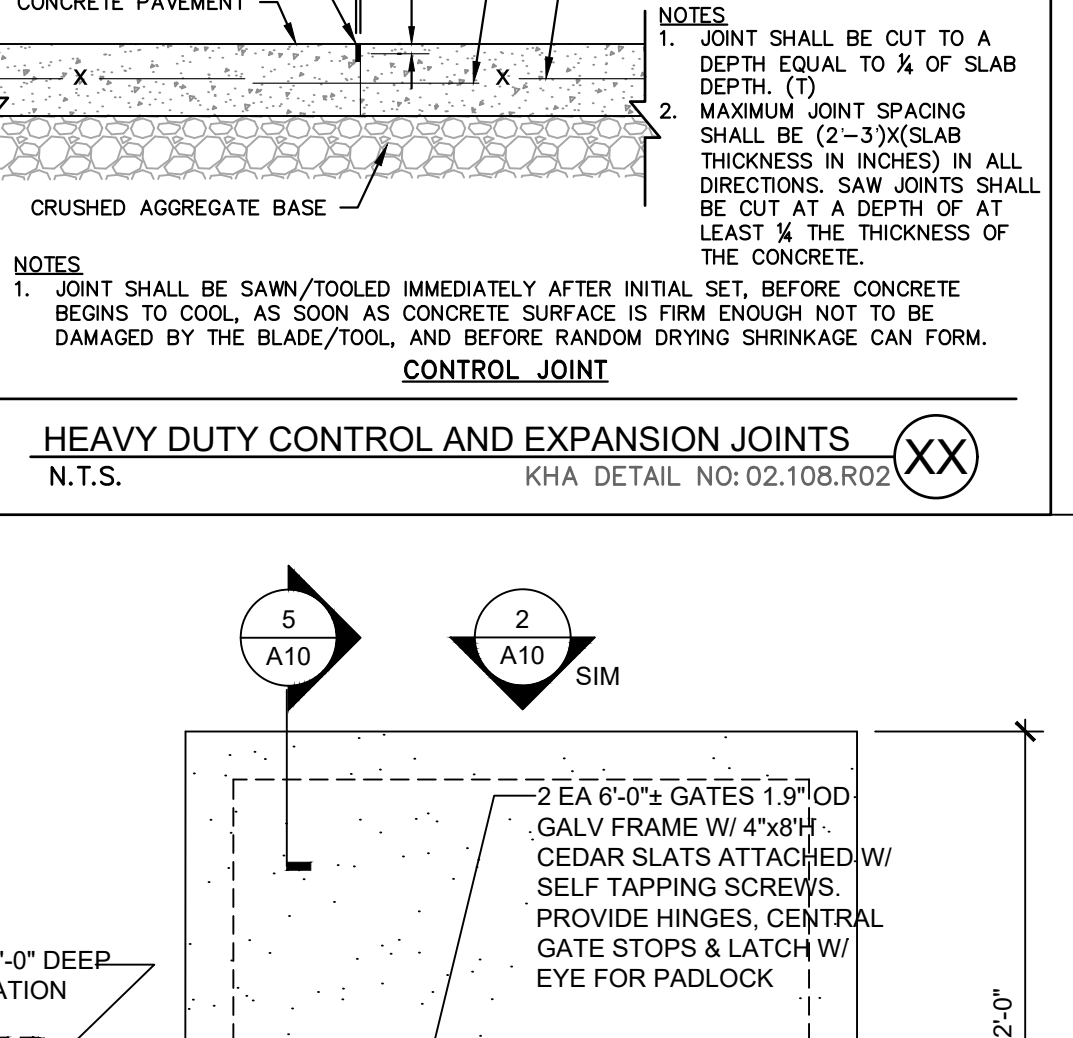
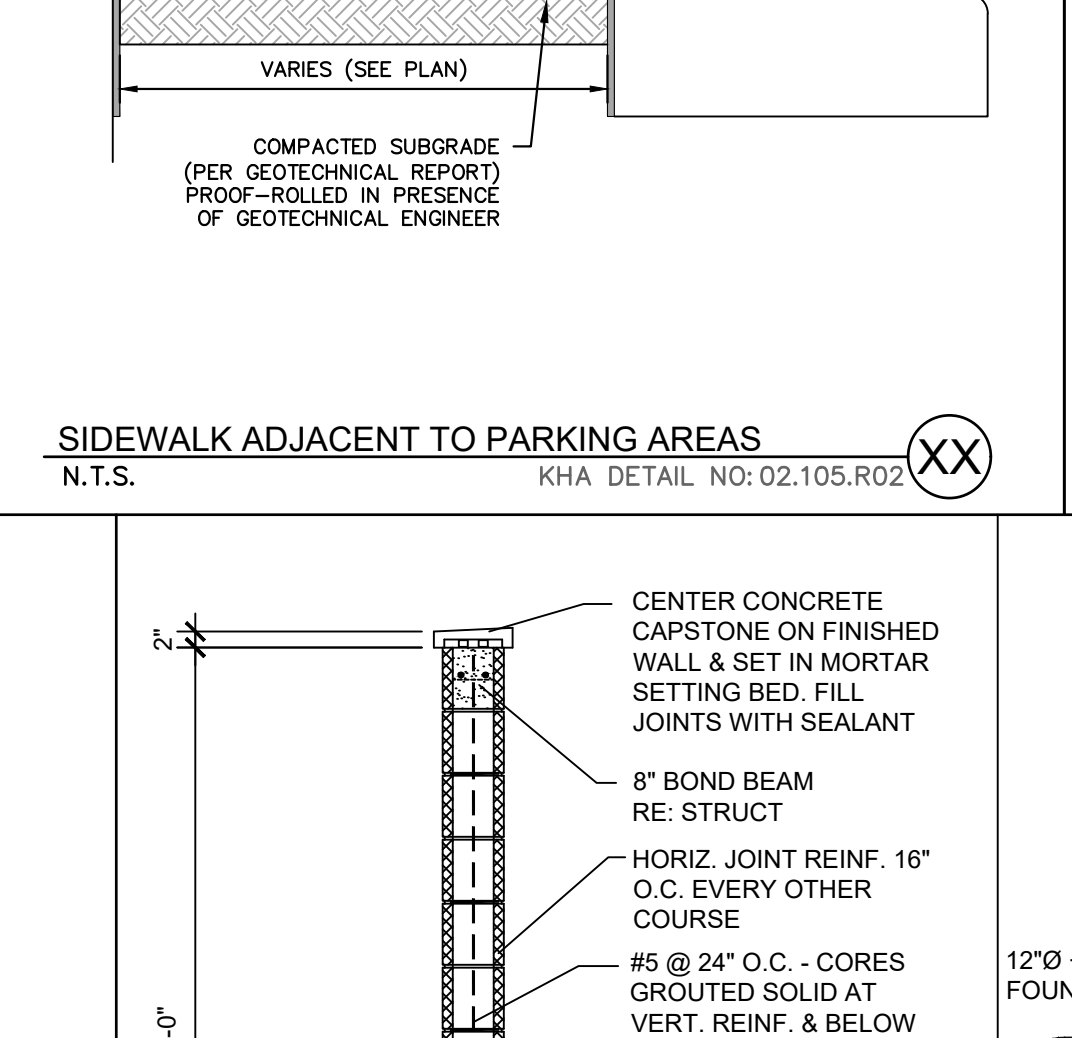
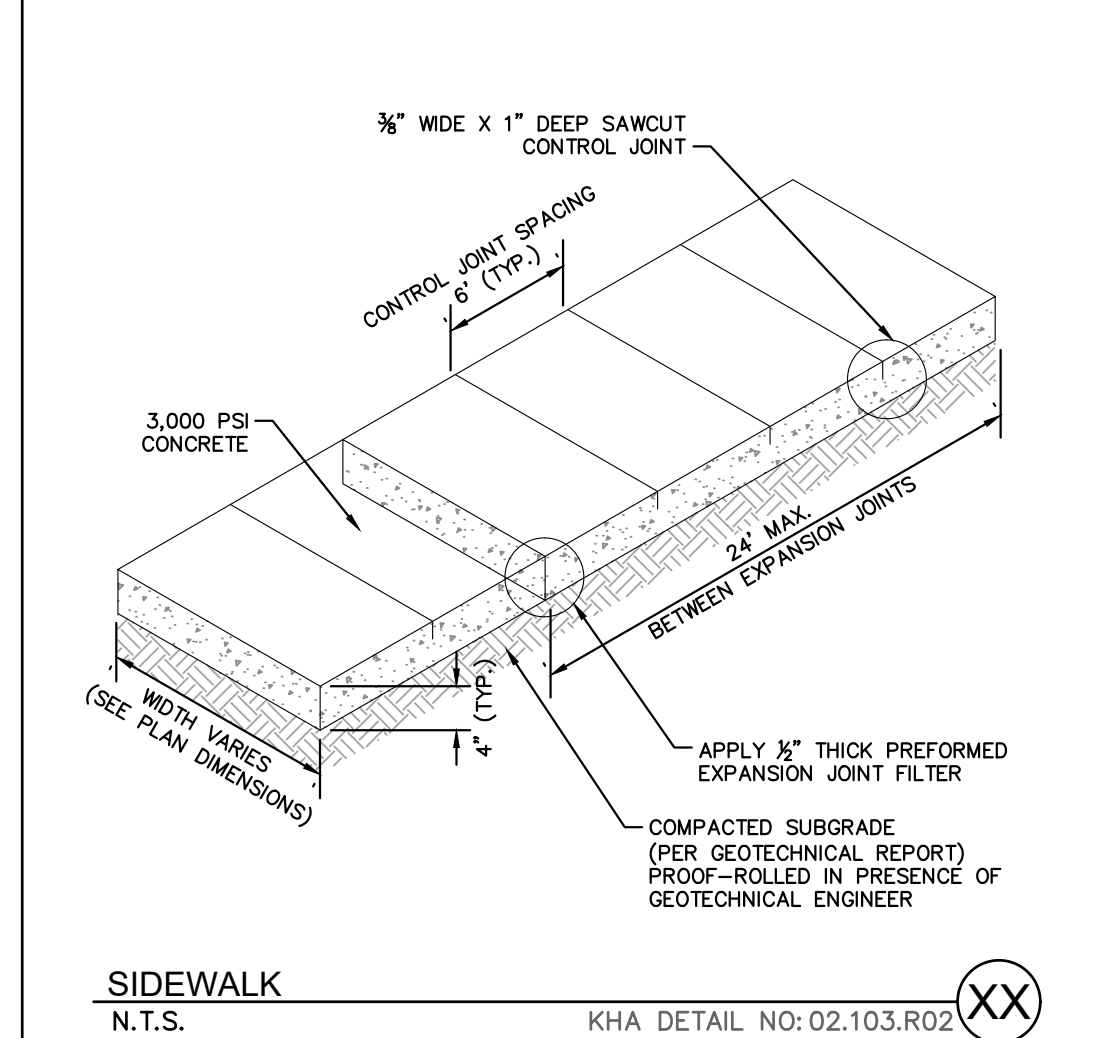
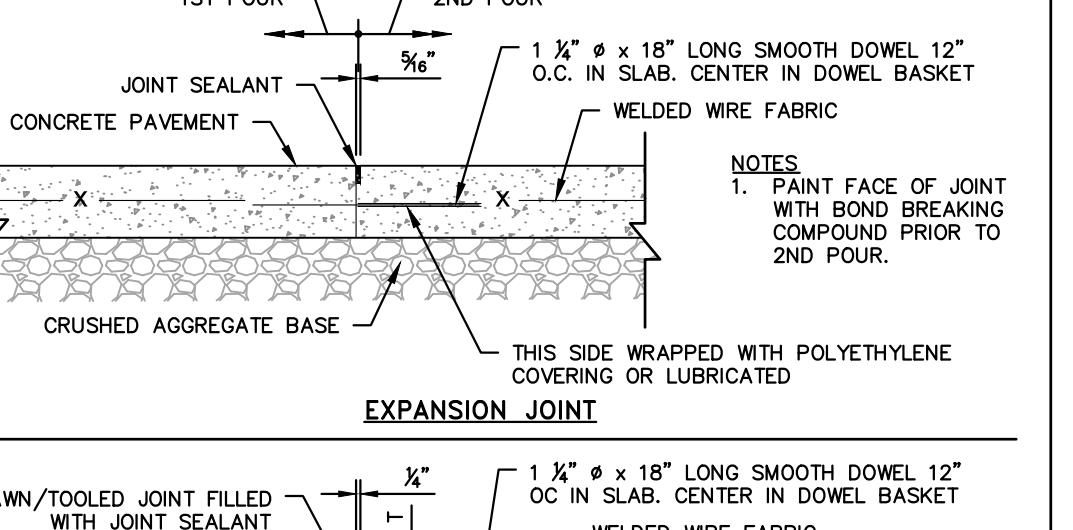
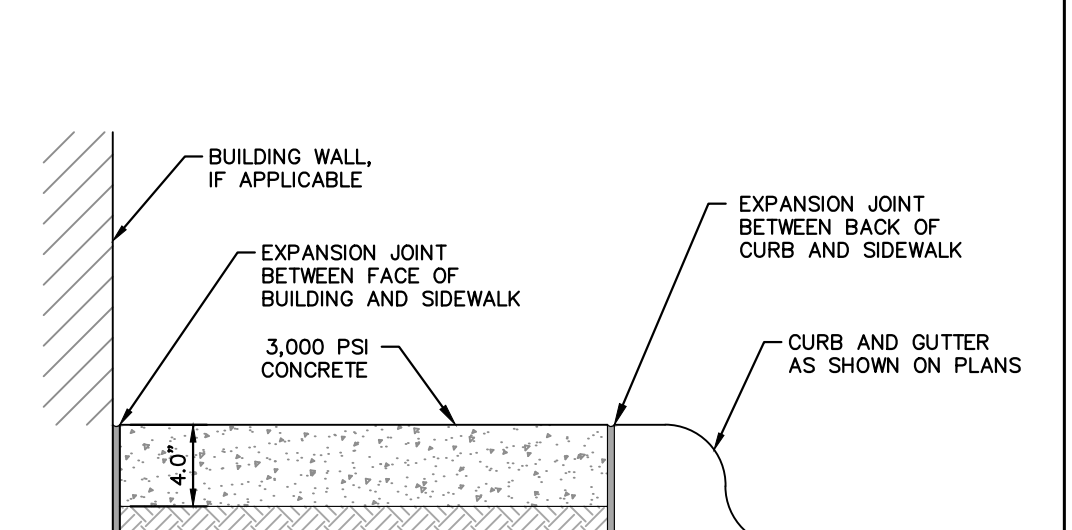
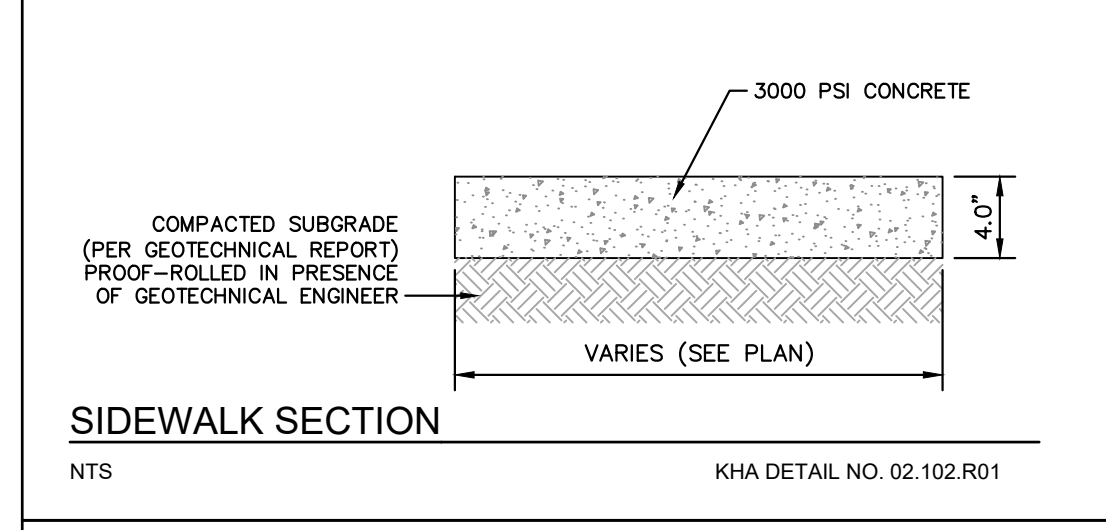
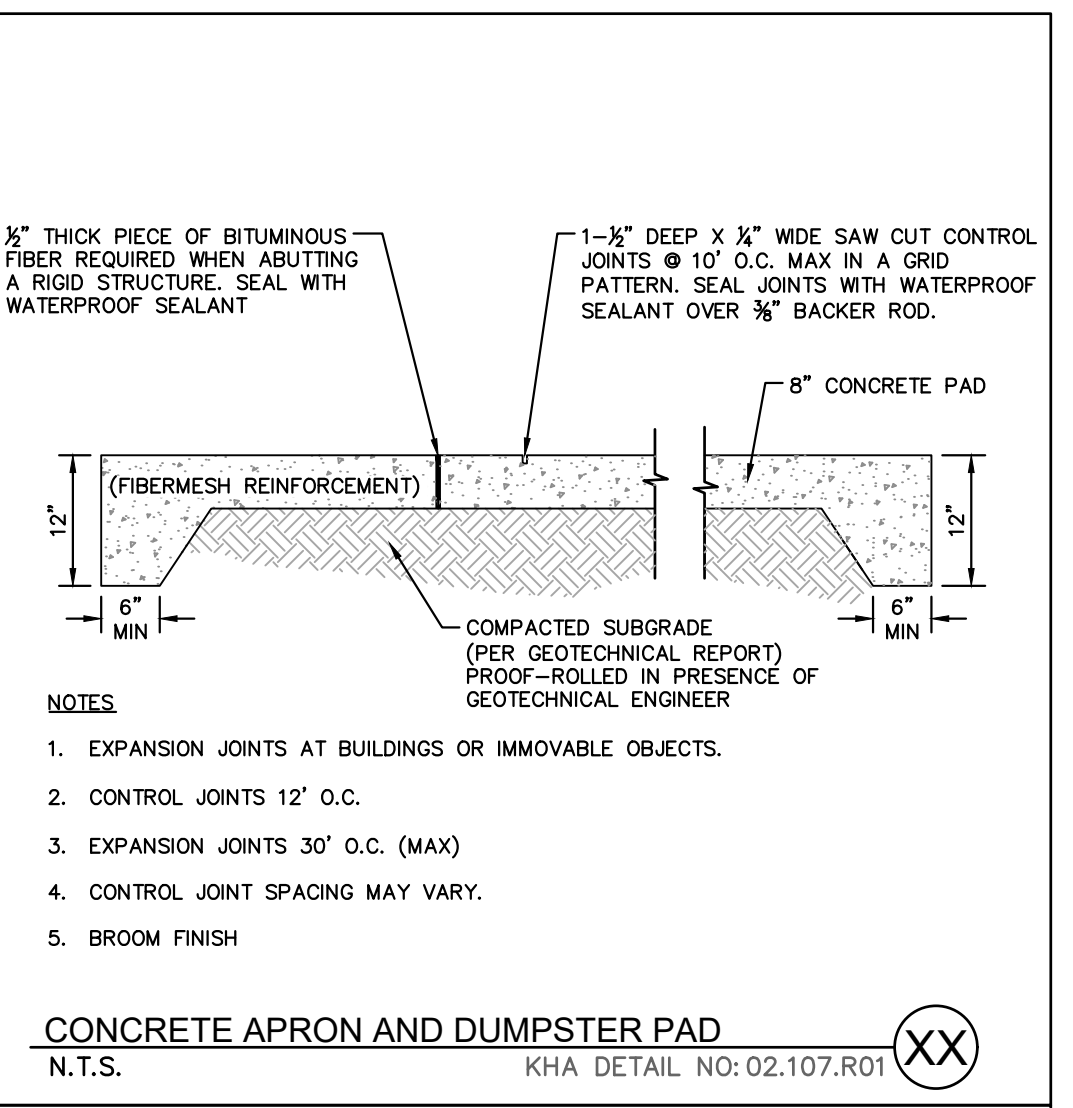
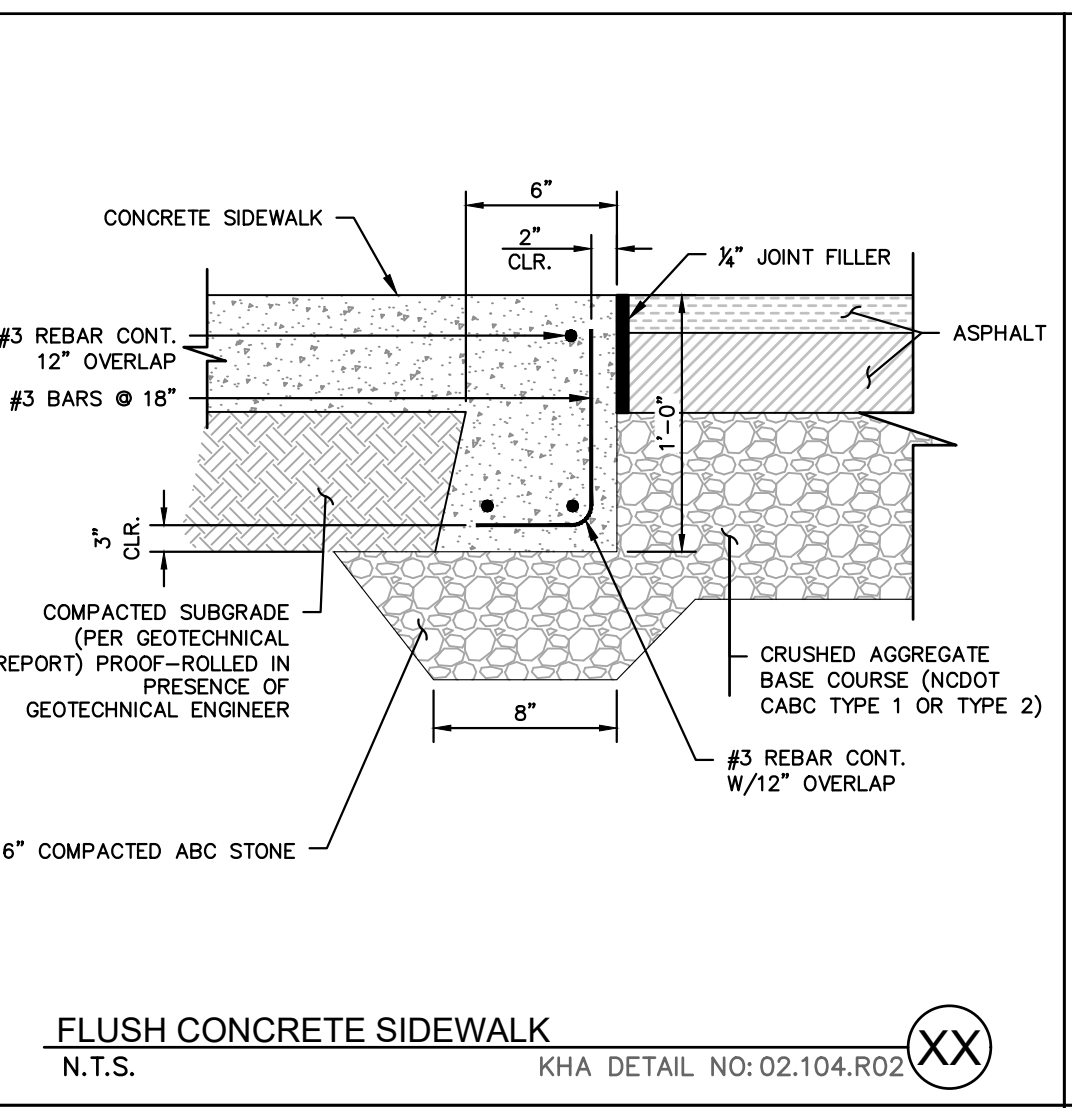
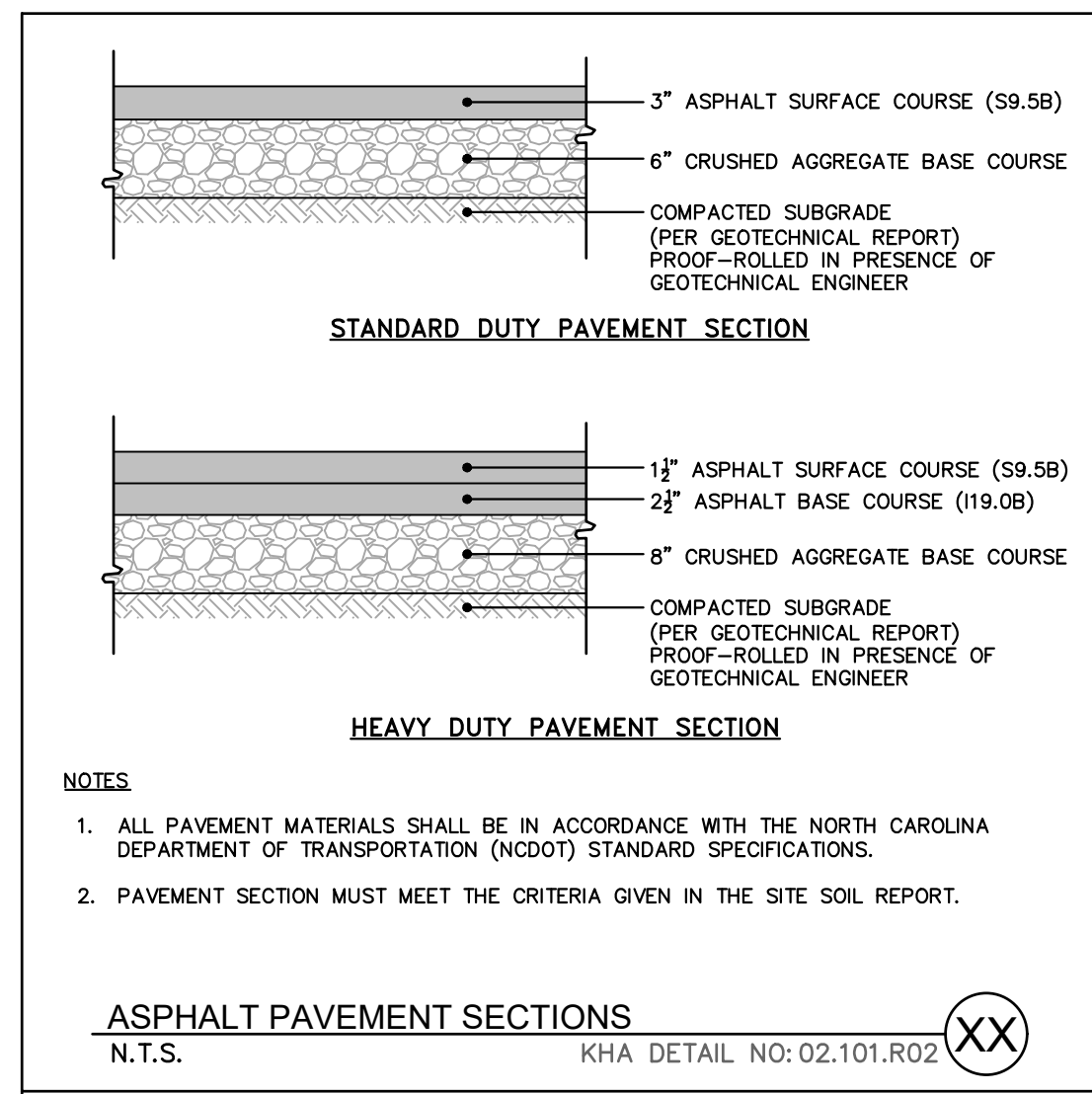
THE LEARNING CENTER ROLESVILLE  
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 TOWN OF ROLESVILLE NORTH CAROLINA



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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.		ROADWAY STANDARD DRAWING FOR CURB RAMP DIRECTIONAL RAMP		SHEET 6 OF 13		848.06	
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.		ROADWAY STANDARD DRAWING FOR CURB RAMP NOTES		SHEET 13 OF 13		848.06	
KHA PROJECT 013031004		DATE 09/29/2023		SCALE AS SHOWN		DESIGNED BY JAA	
DRAWN BY JAA		CHECKED BY COB		TOWN COMMENTS 05/01/2024 JAA		TOWN COMMENTS 03/01/2024 JAA	
TOWN COMMENTS 01/02/2024 JAA		REVISIONS		DATE		BY	
TOWN COMMENTS 01/02/2024 JAA		TOWN COMMENTS 03/01/2024 JAA		TOWN COMMENTS 05/01/2024 JAA		TOWN COMMENTS 01/02/2024 JAA	

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**SITE DETAILS**

**THE LEARNING CENTER ROLESVILLE**  
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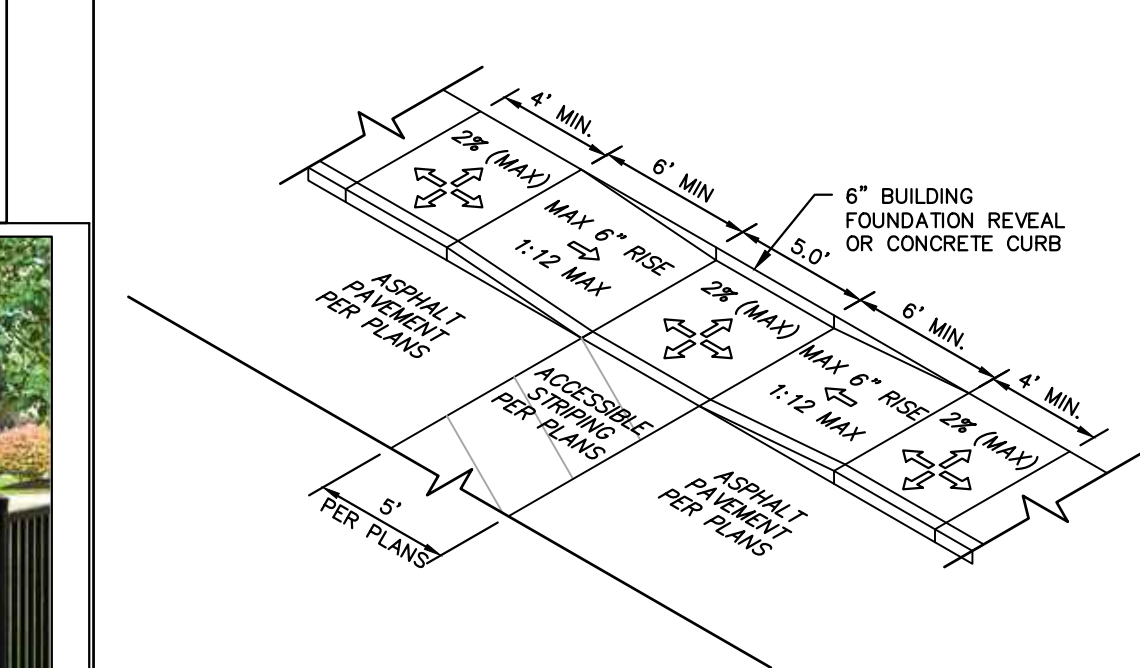
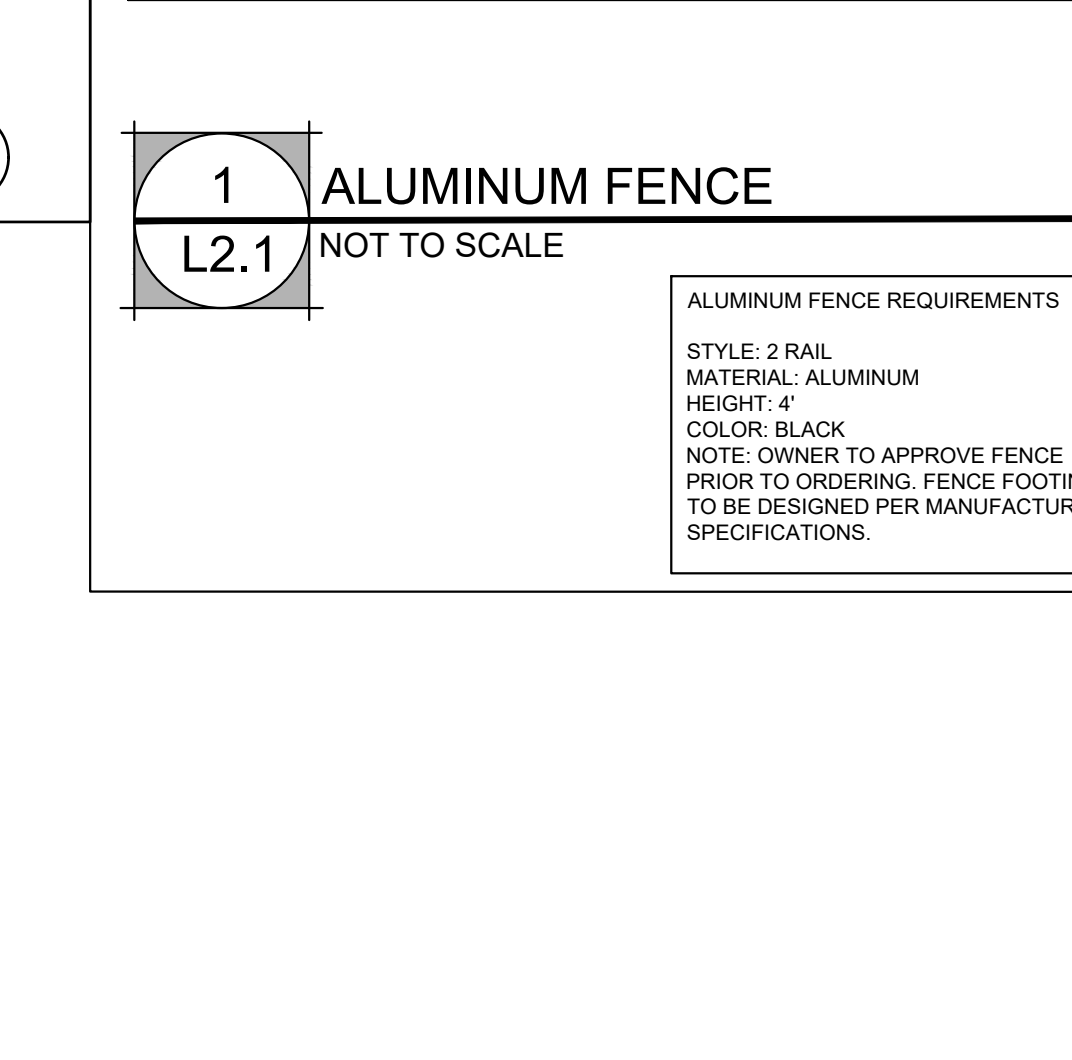
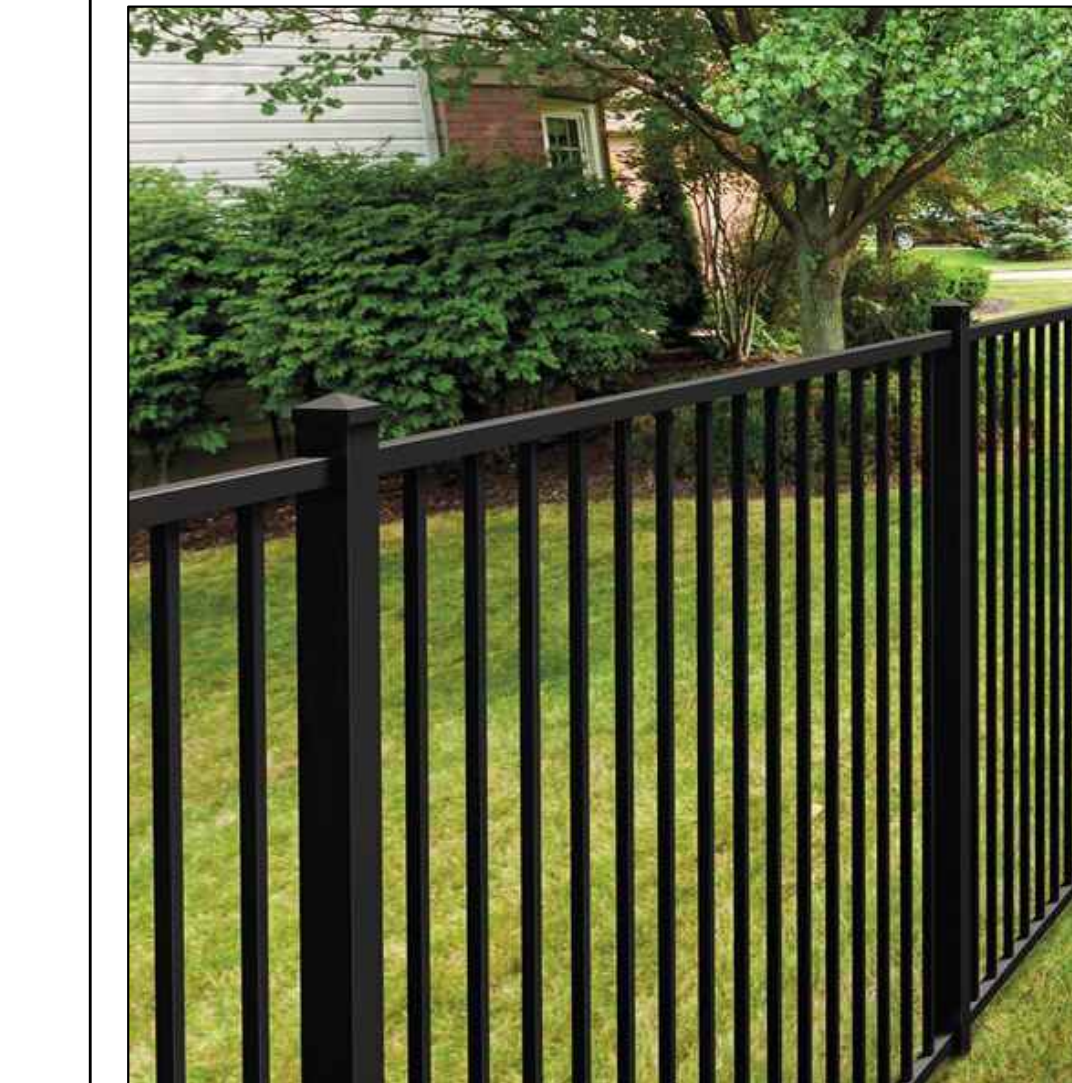
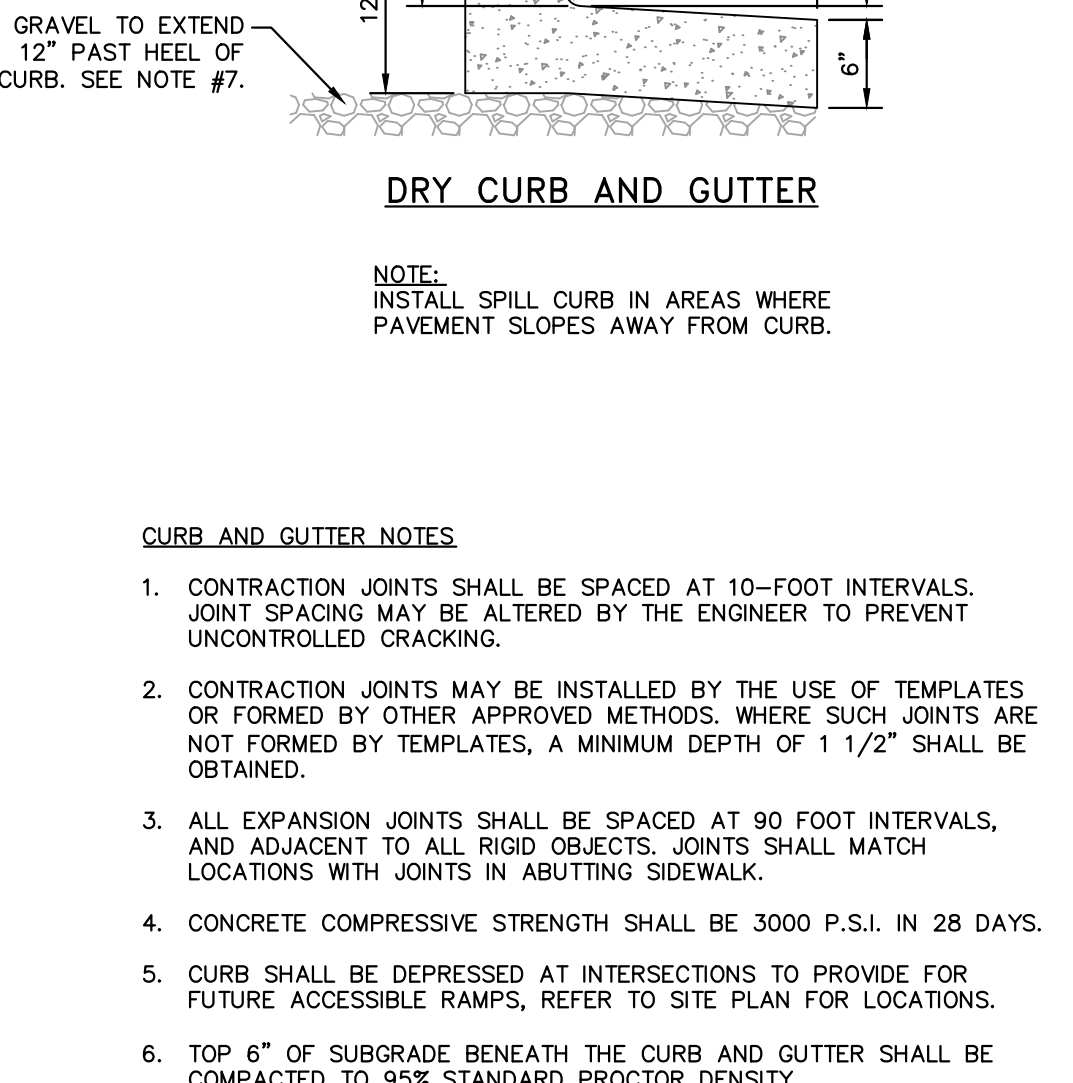
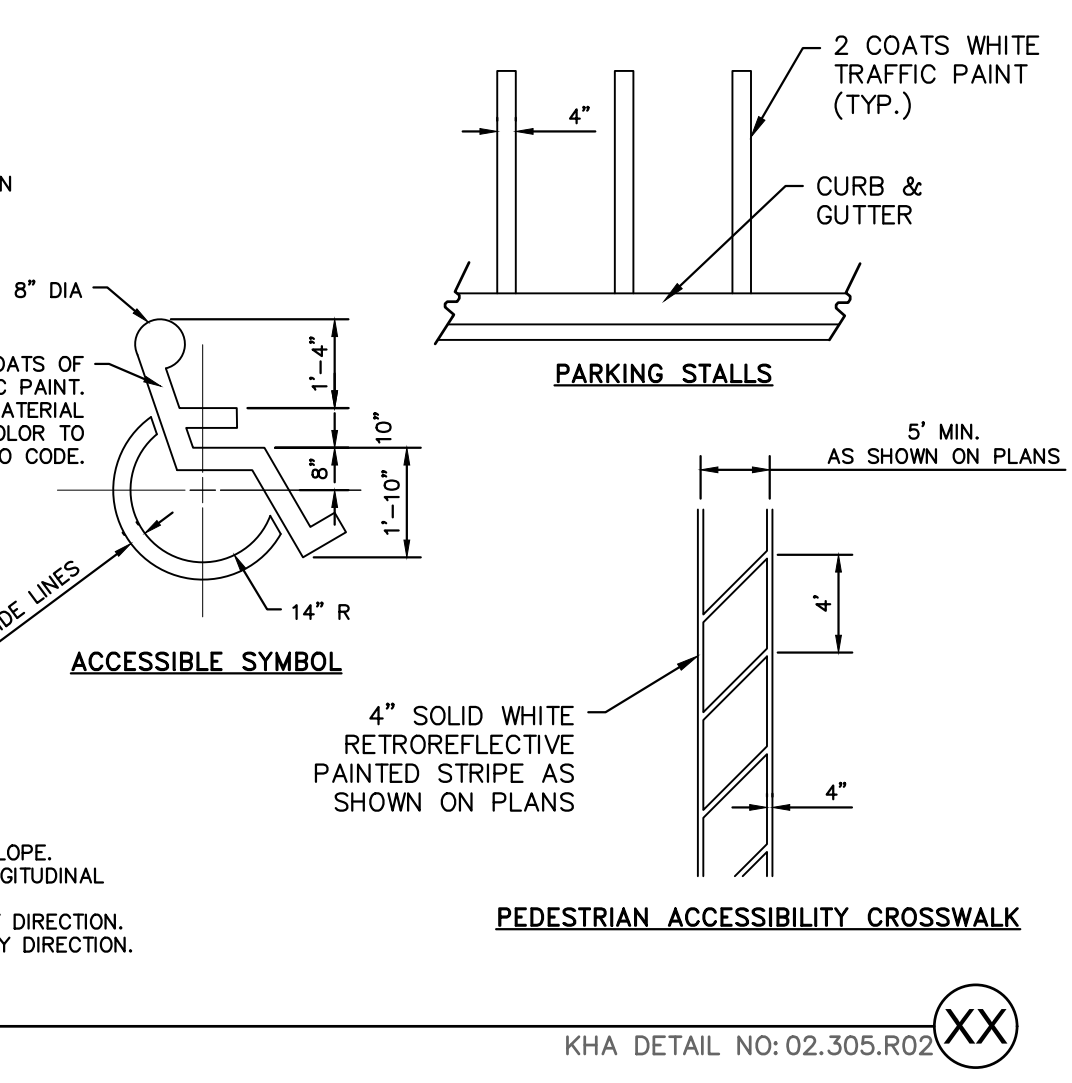
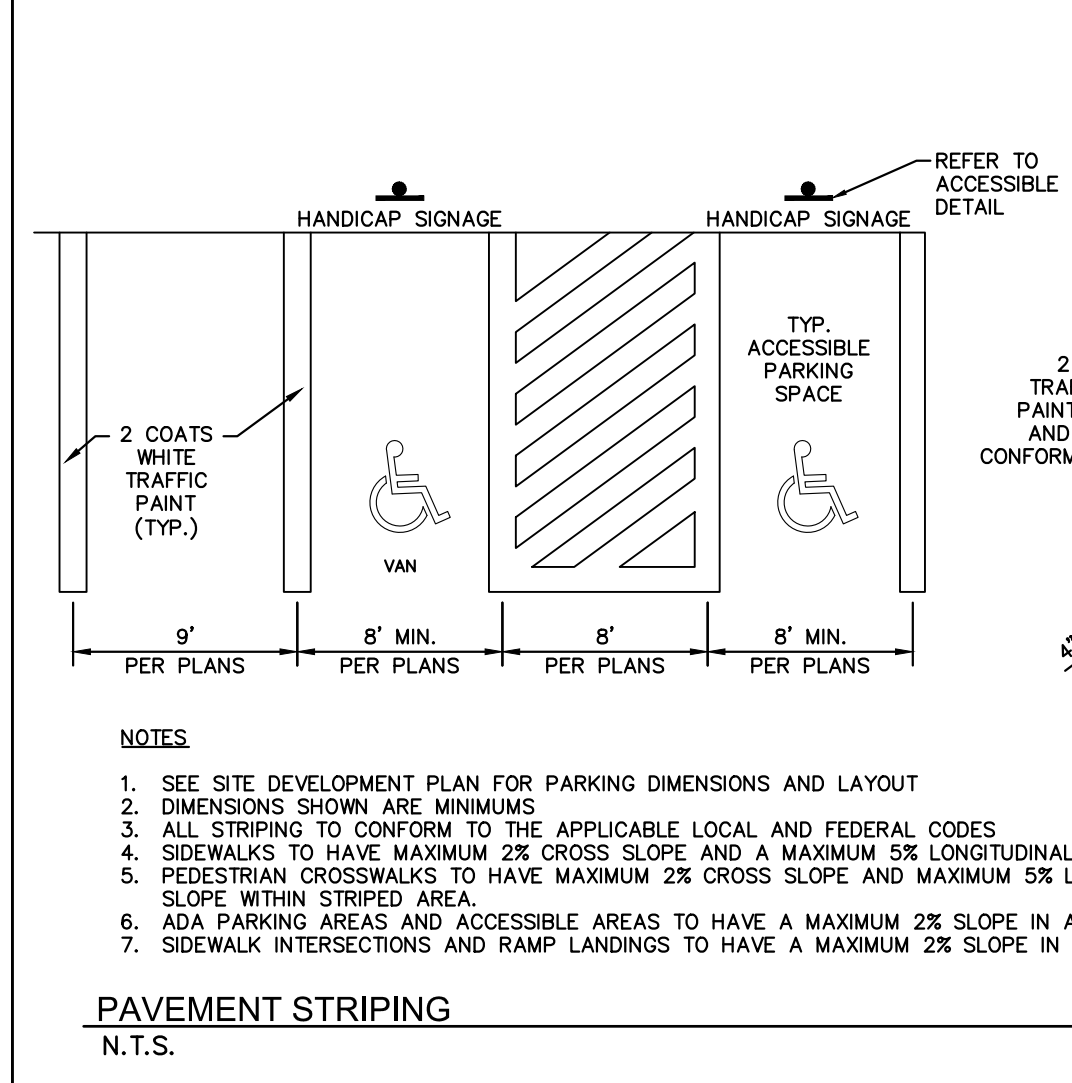
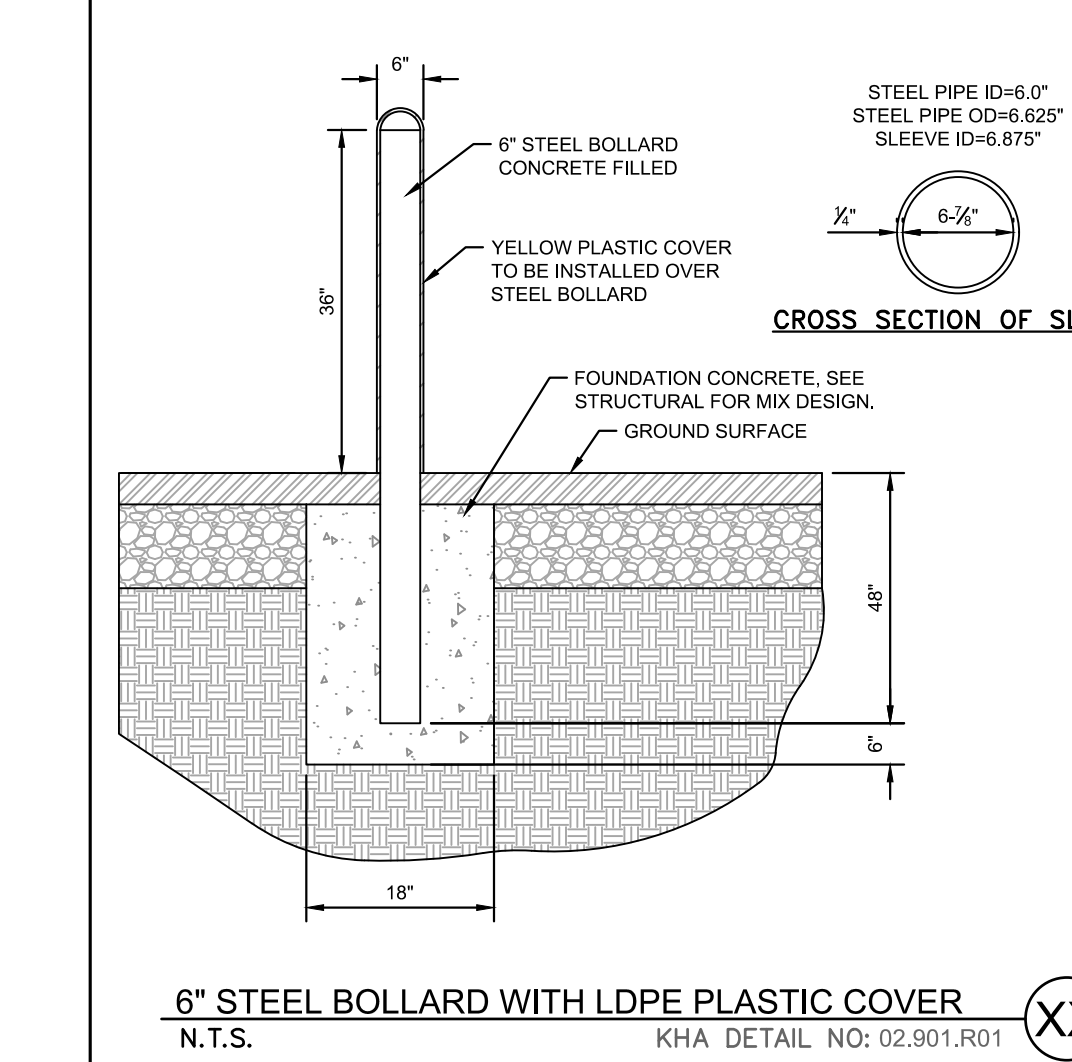
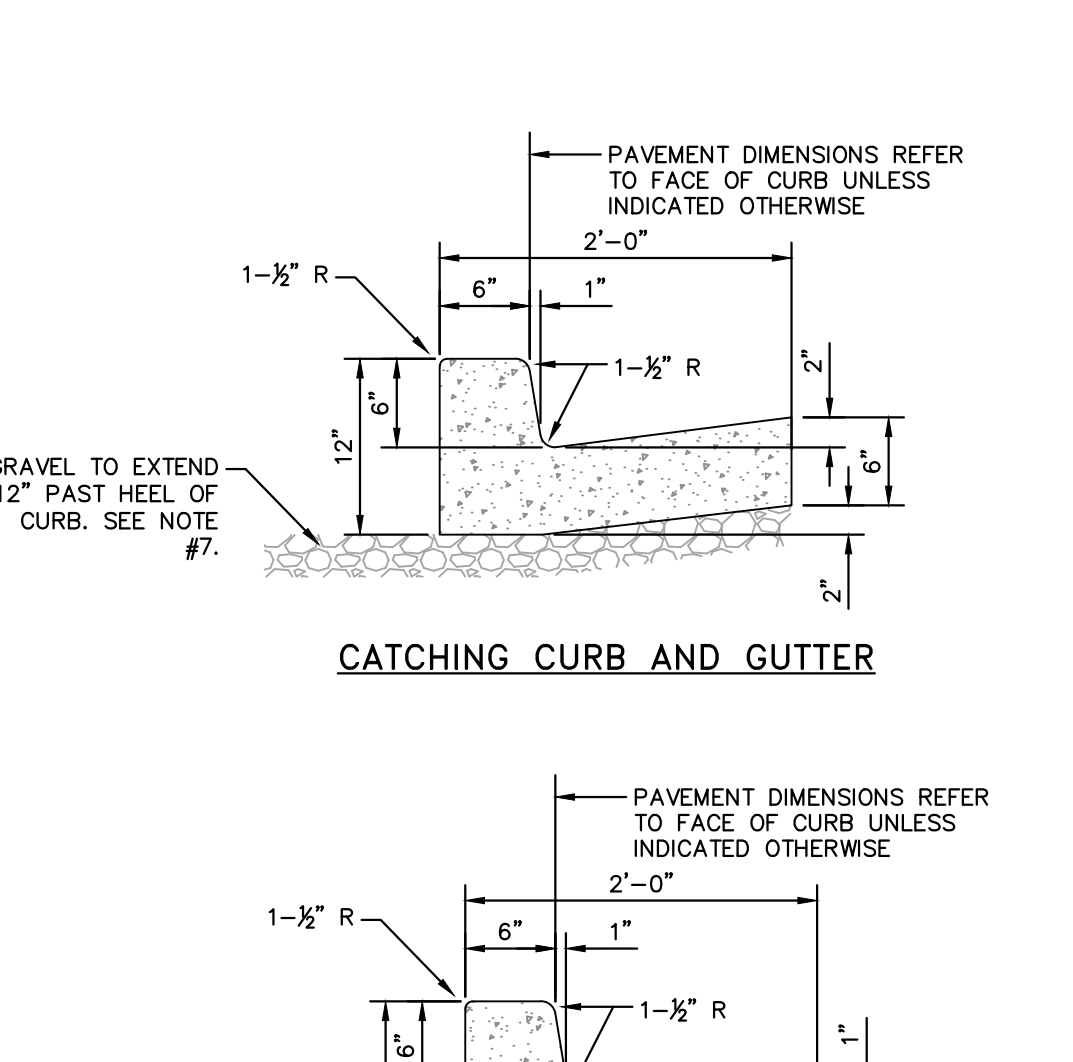
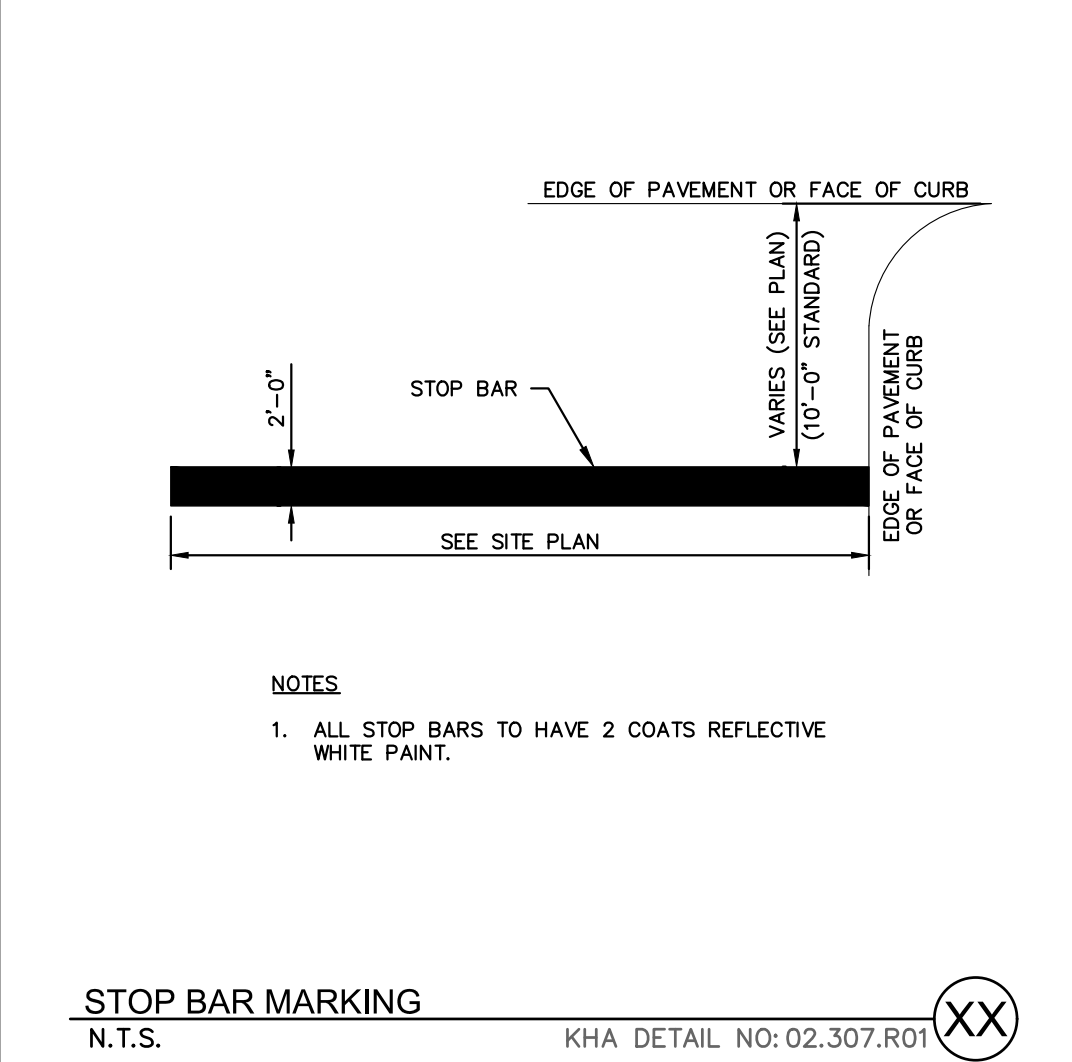
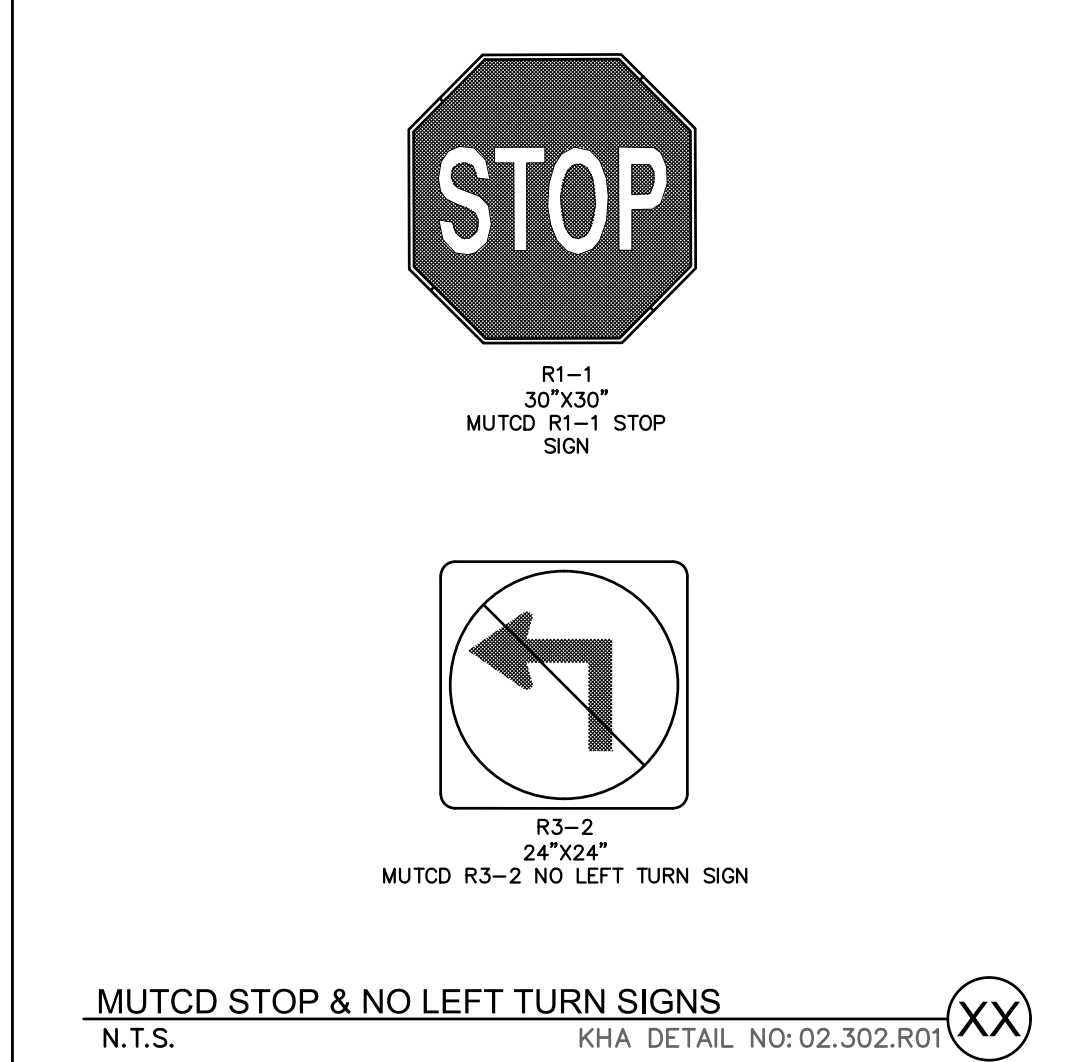
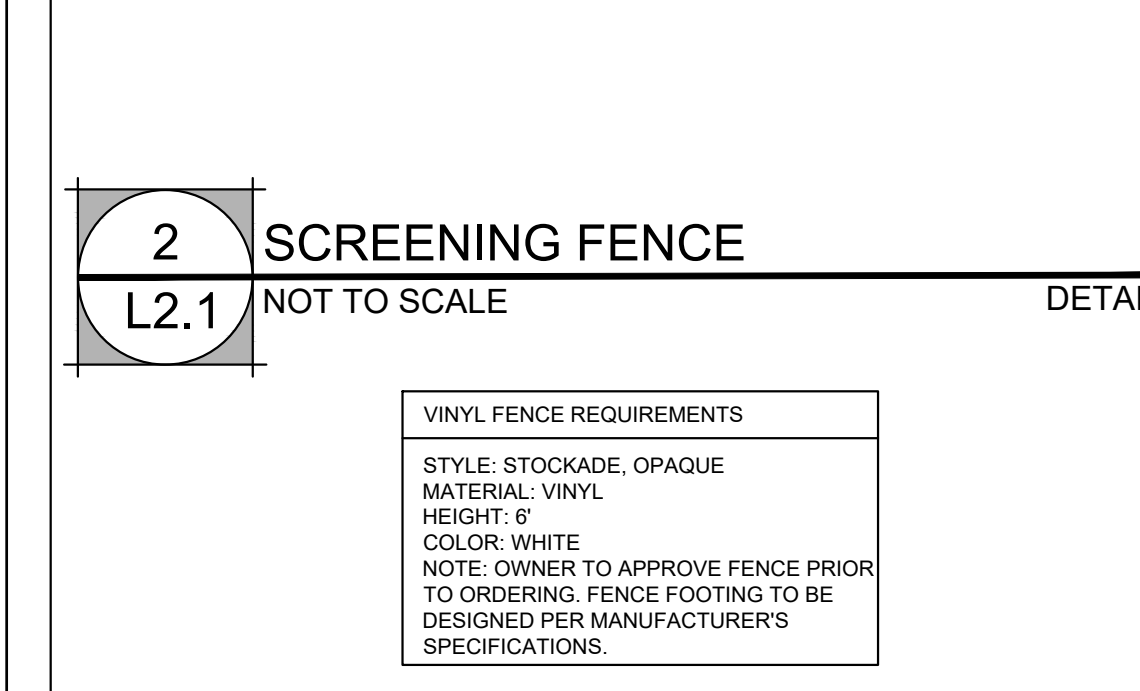
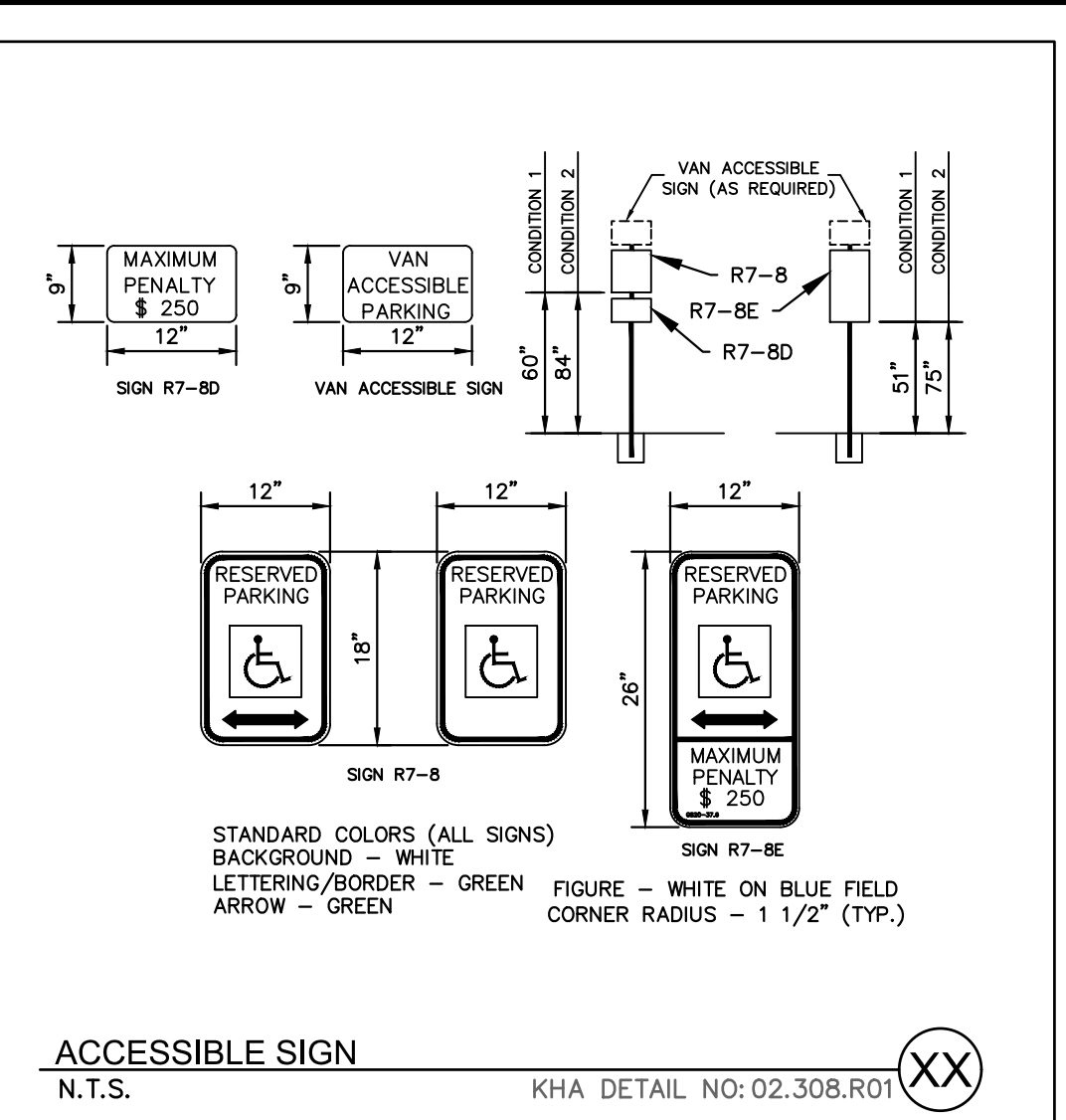
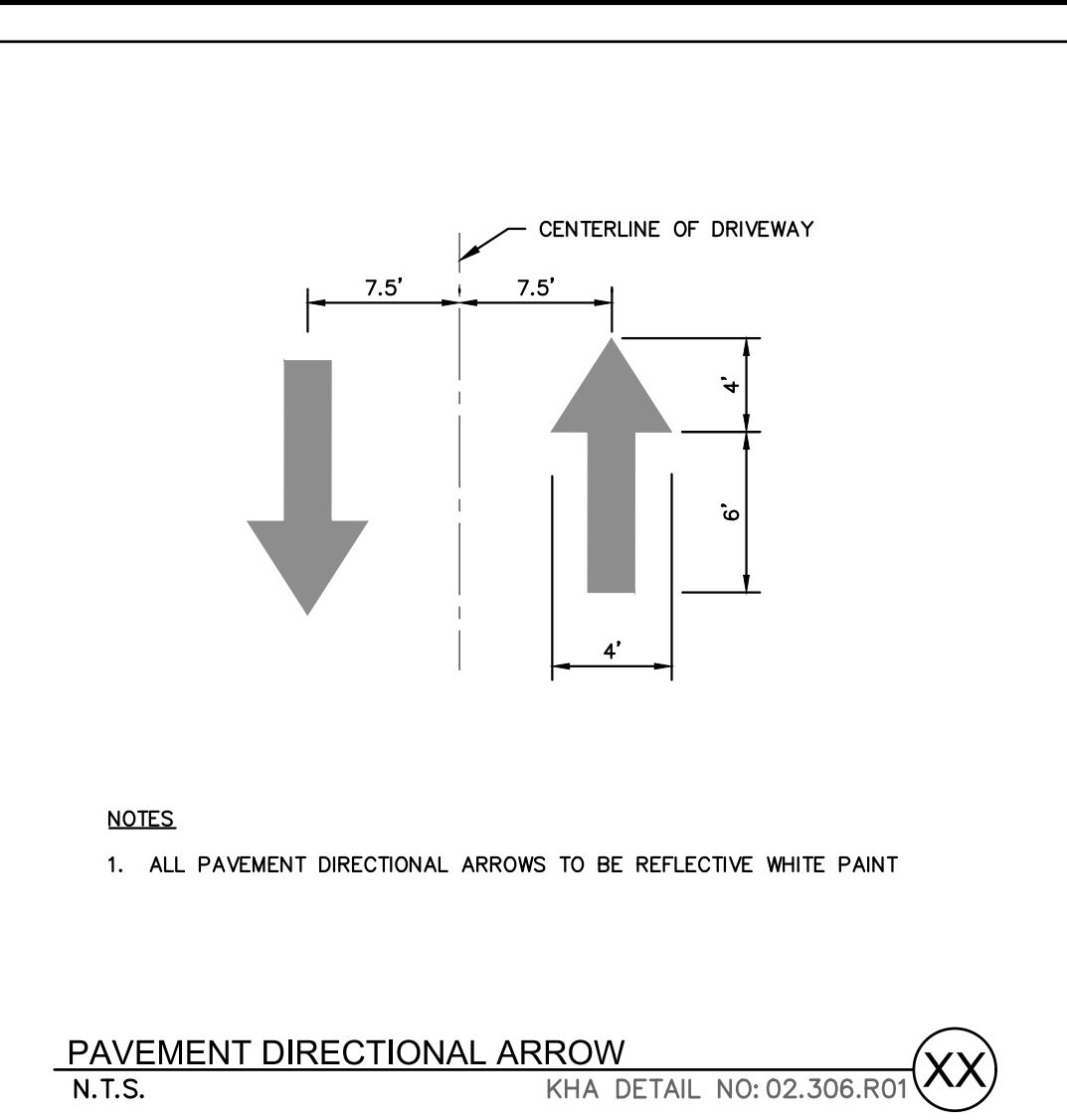
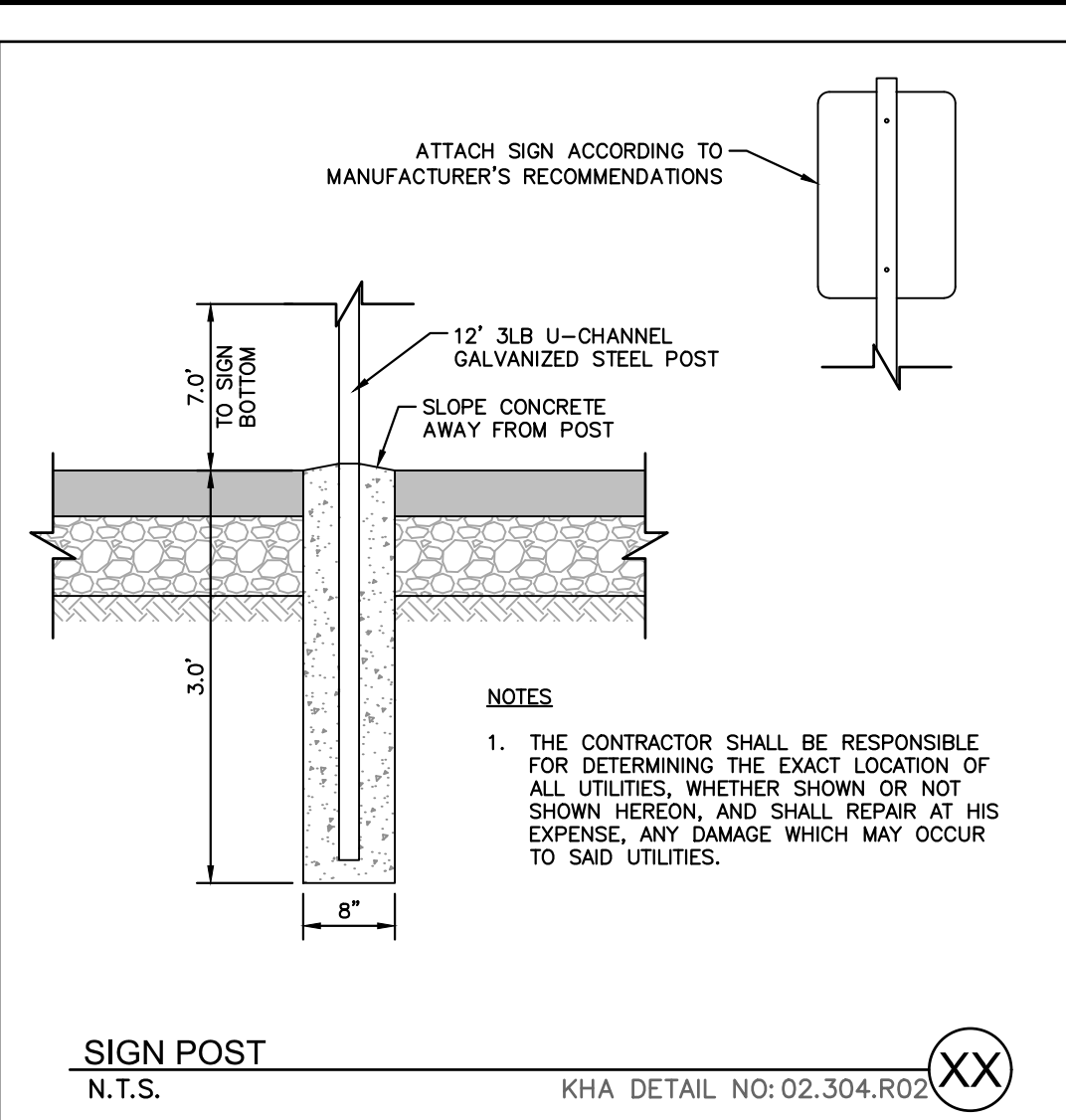
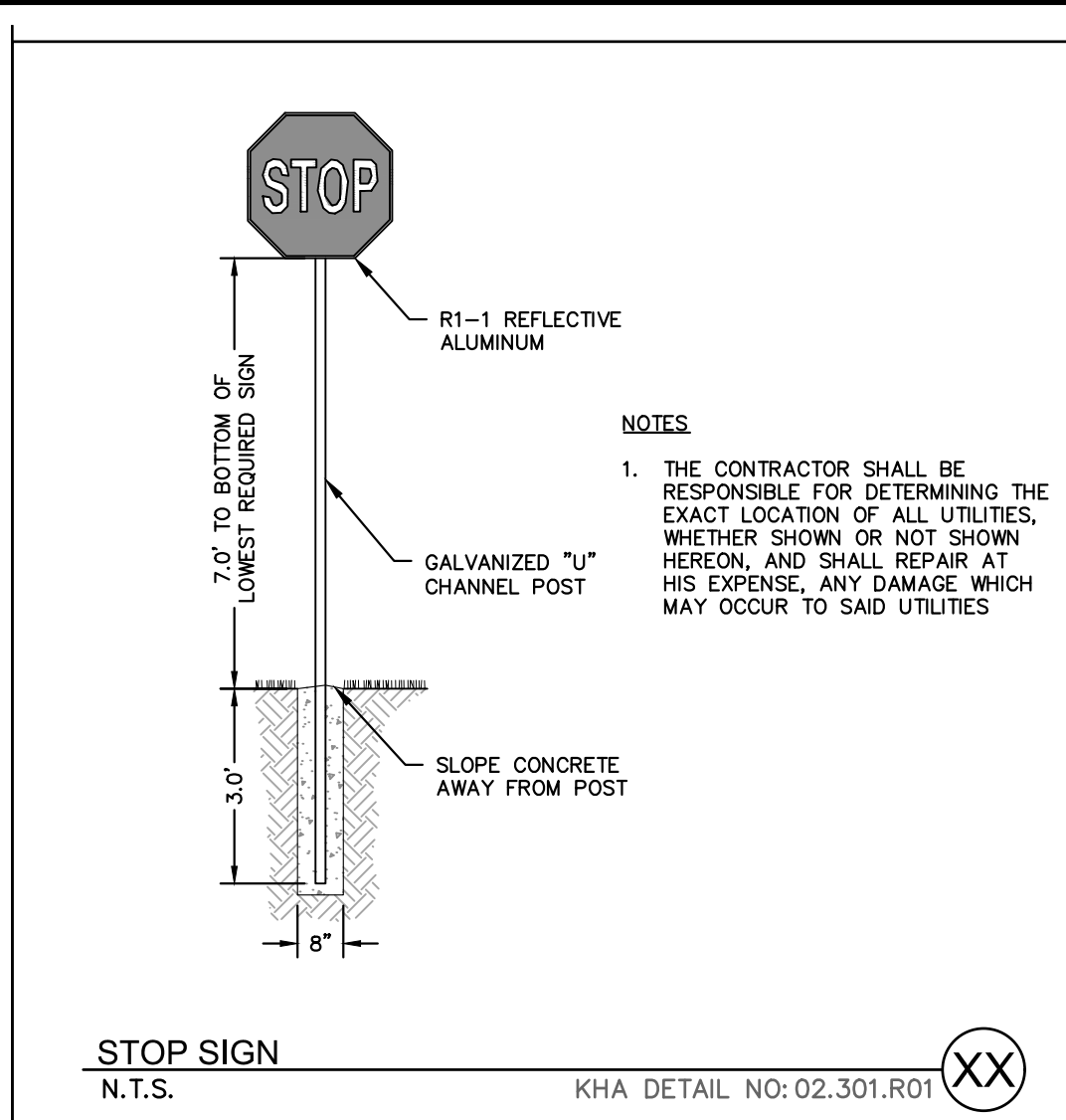
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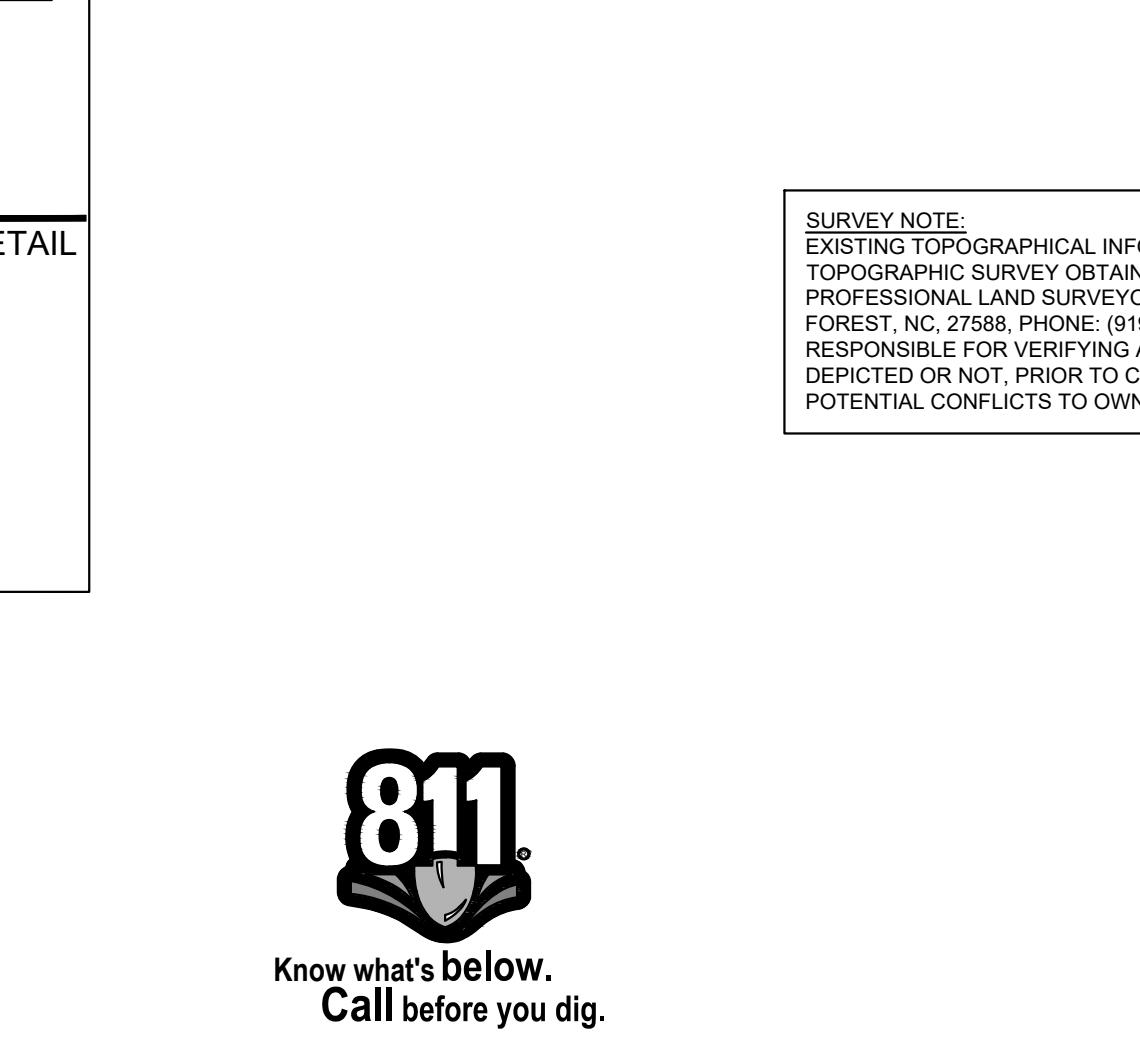


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**NOTES**

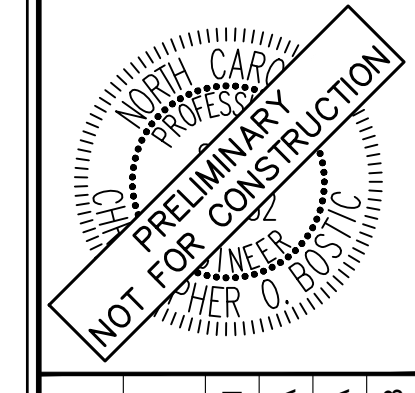
- ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICH ARE MORE STRINGENT.
- CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 3,000 PSI.
- INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.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



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

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

**SITE DETAILS**

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

SHEET NUMBER  
**C8.1**

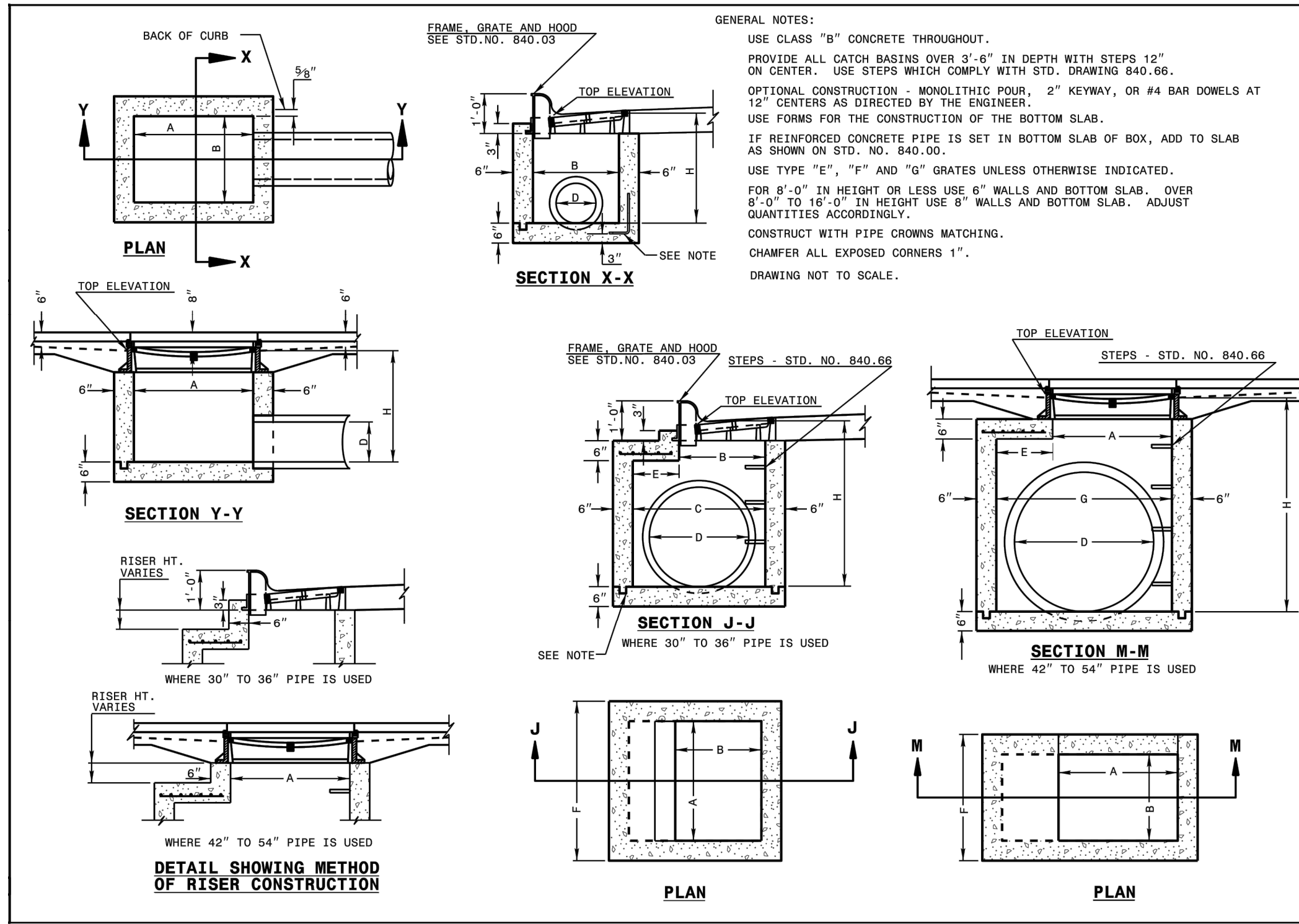








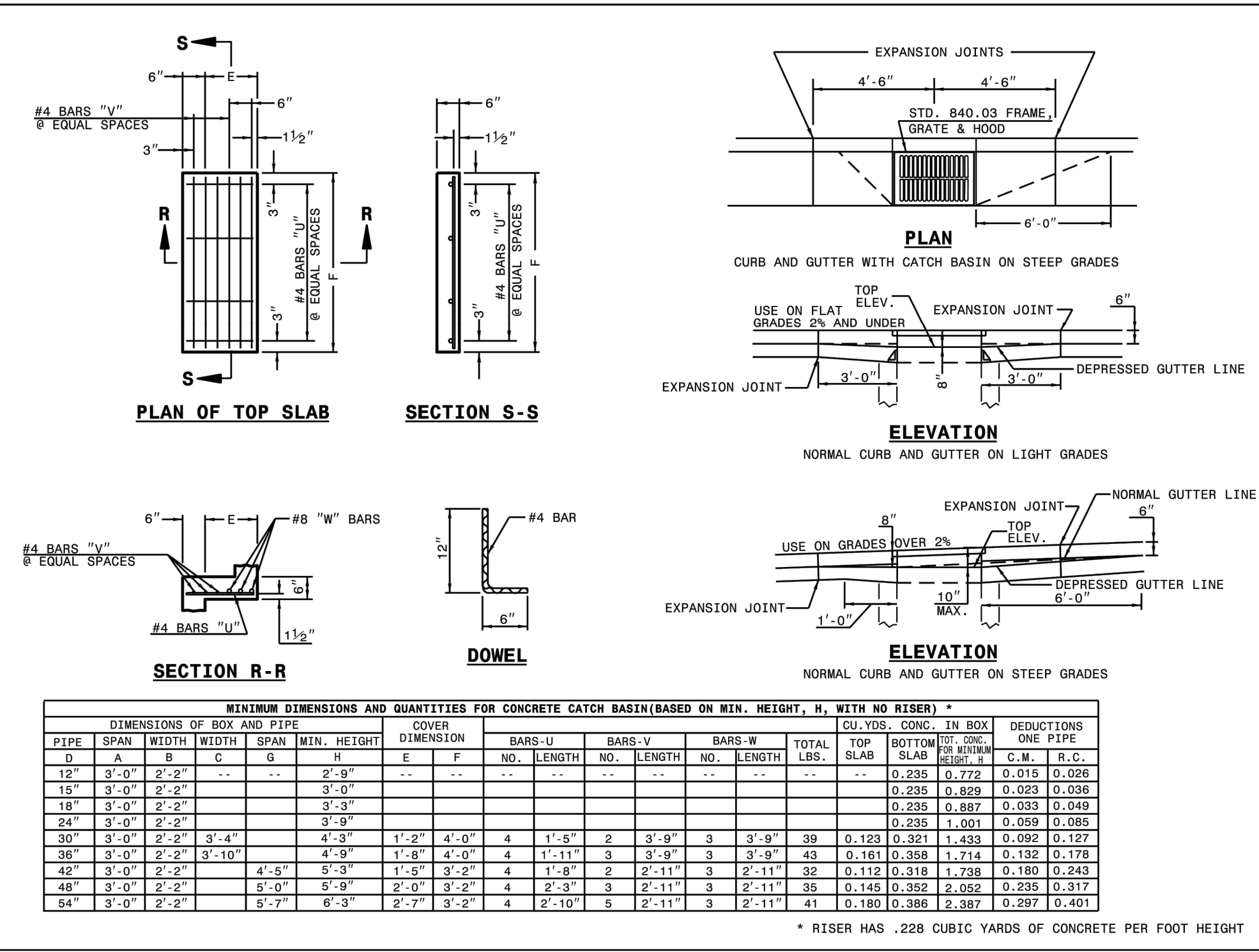
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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

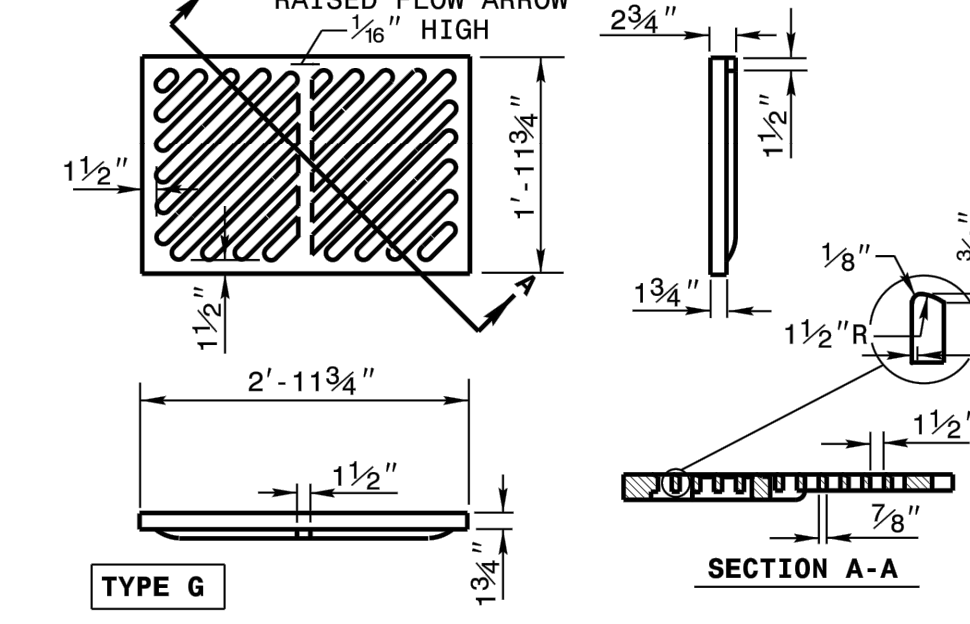
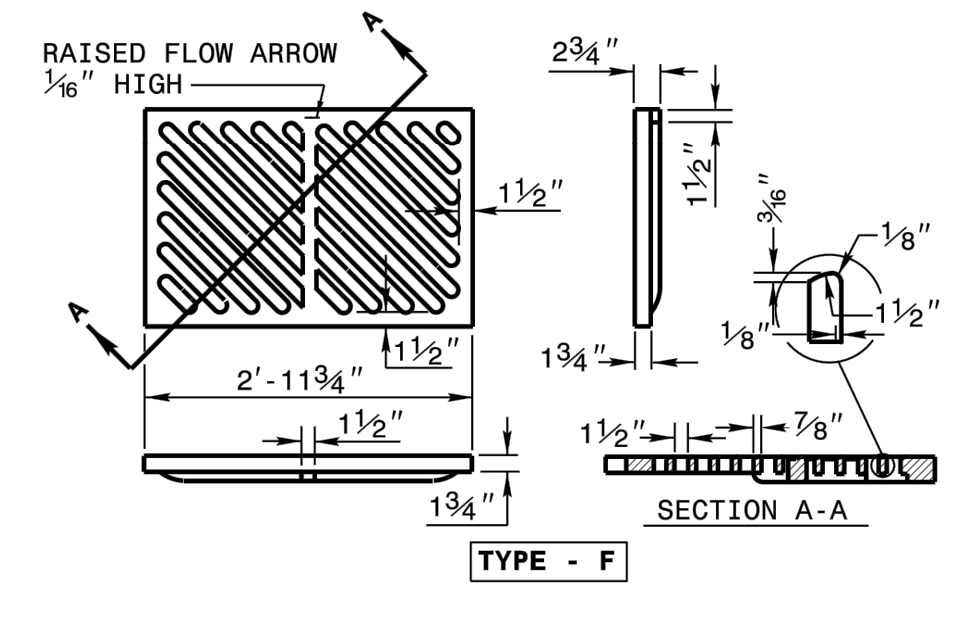
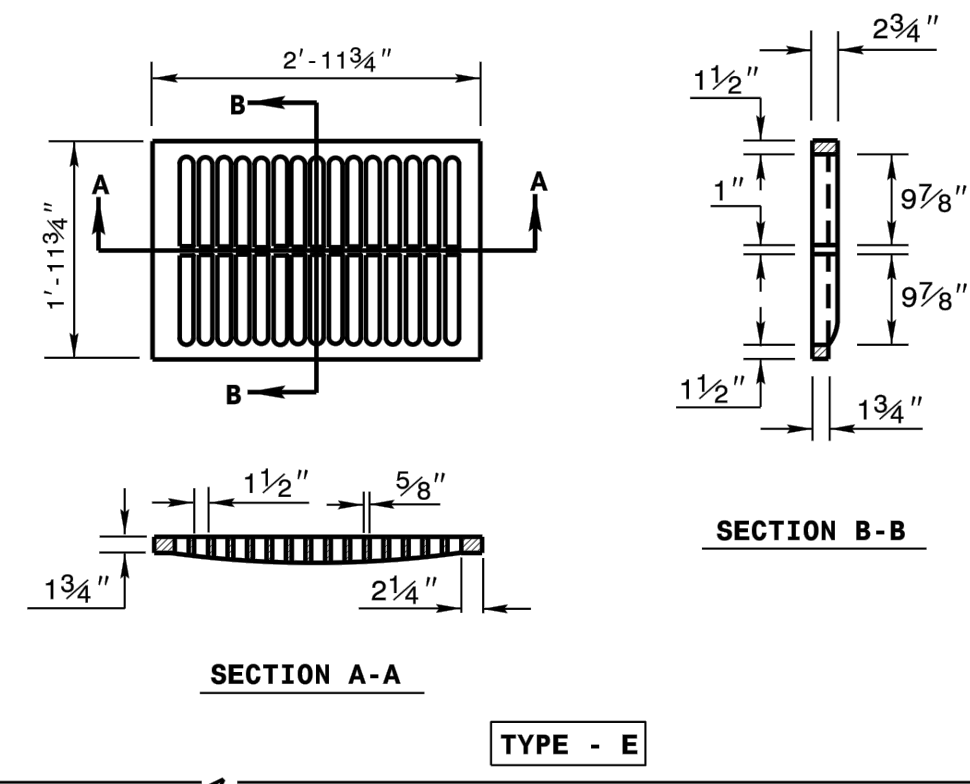
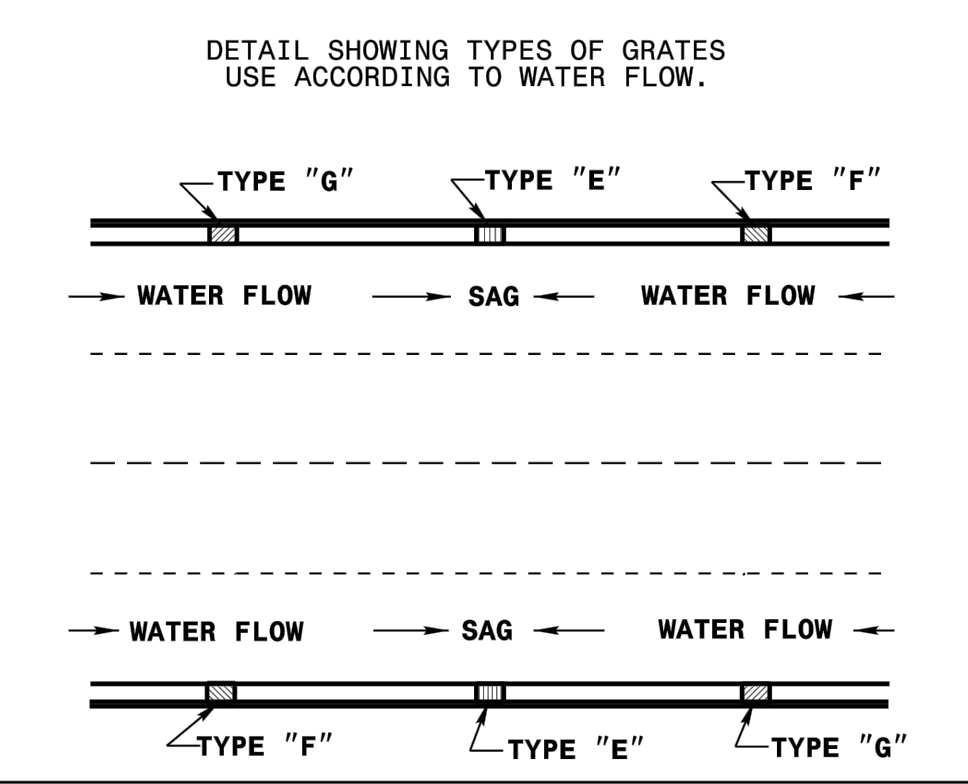
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**840.02**



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**

**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 27988. 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.



SDP-23-07

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

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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

**STORM DETAILS**

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

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**

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**

NO PRELIMINARY CONSTRUCTION

TOWN COMMENTS 05/01/2024 JAA  
 TOWN COMMENTS 03/01/2024 JAA  
 TOWN COMMENTS 01/02/2024 JAA

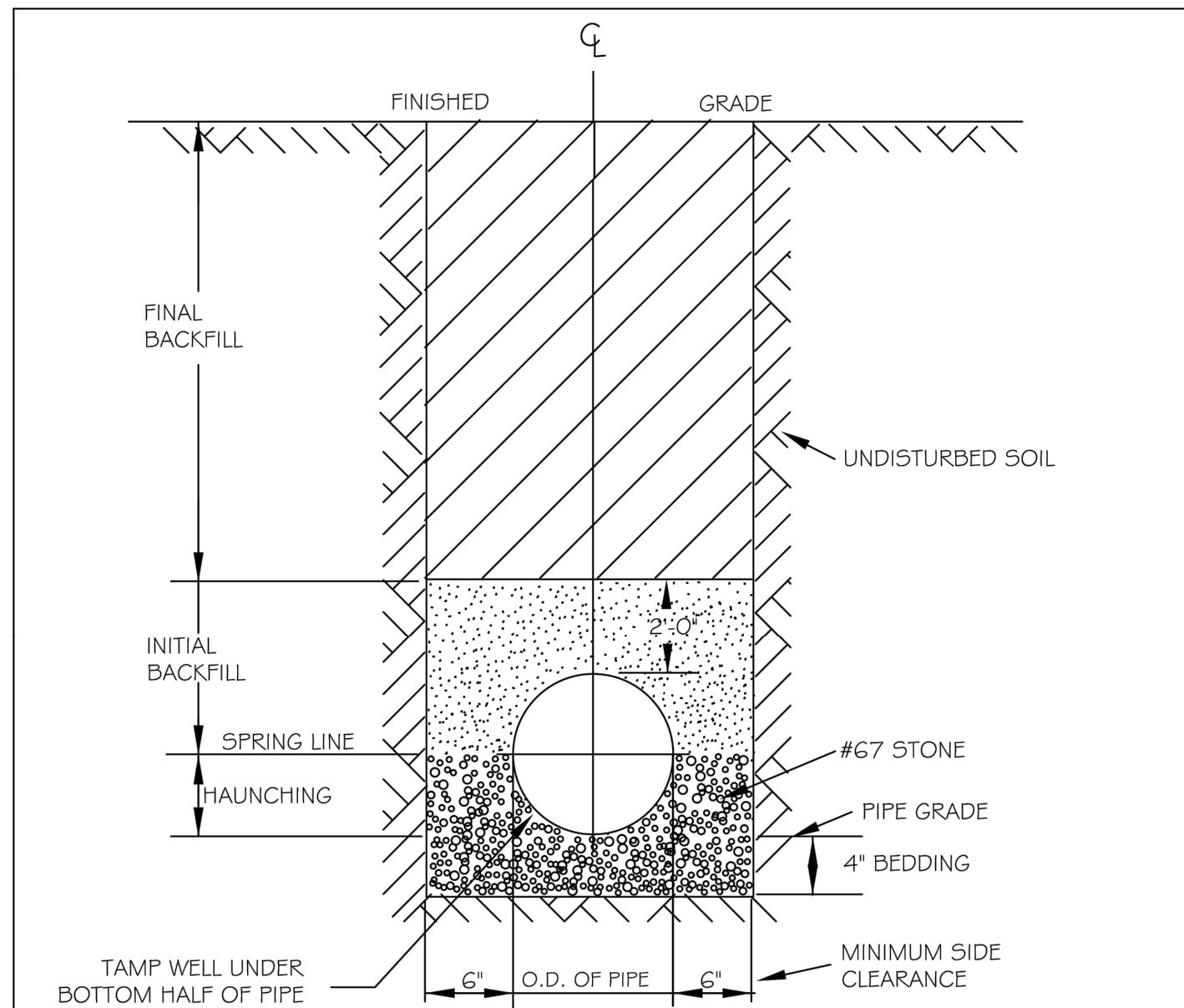
REVISIONS BY DATE

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SHEET NUMBER  
**C9.1**



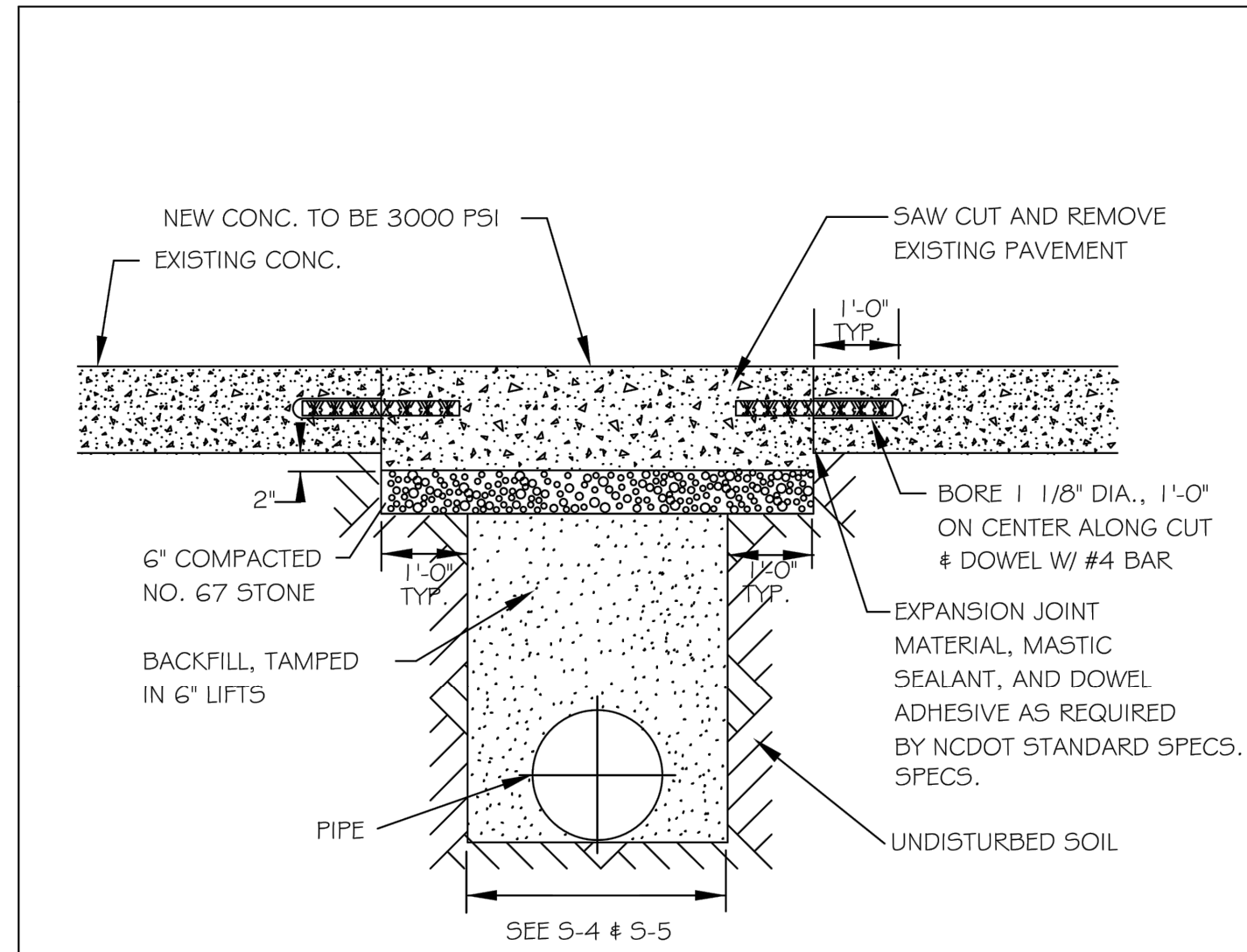
Plotted By: Barnes, Michael. Sheet Set: THE LEARNING CENTER ROLESVILLE. Layout: C10.0 SANITARY SEWER DETAILS. May 01, 2024. 05:23:44pm. K:\RAL\_LDEV\013031004\_Rolesville\_Layout\_Center\10 CAD Files\PlanSheets\C10.1 SANITARY SEWER DETAILS.dwg. This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, as 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.



TYPICAL TRENCH BOTTOM DIMENSIONS FOR SDR 35 PVC GRAVITY PIPE

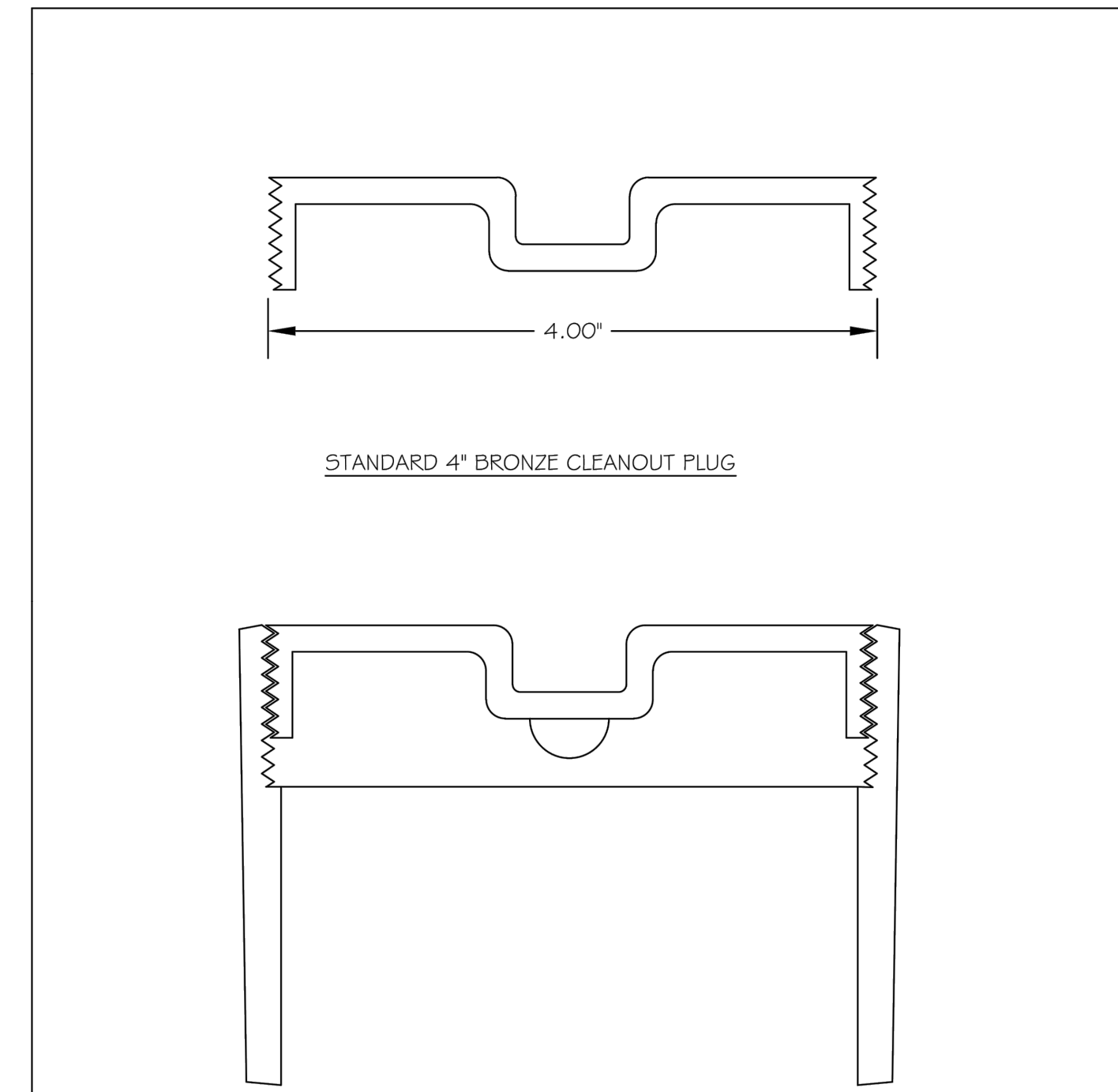
- NOTES:
1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
  2. NO ROCKS OR BOULDERS 4\"/>

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS FOR PVC GRAVITY SEWER MAIN				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-5	TO NOTES	3-1-87	D.W.C.	9-3-99
		7-2-82	RRH	3-30-00



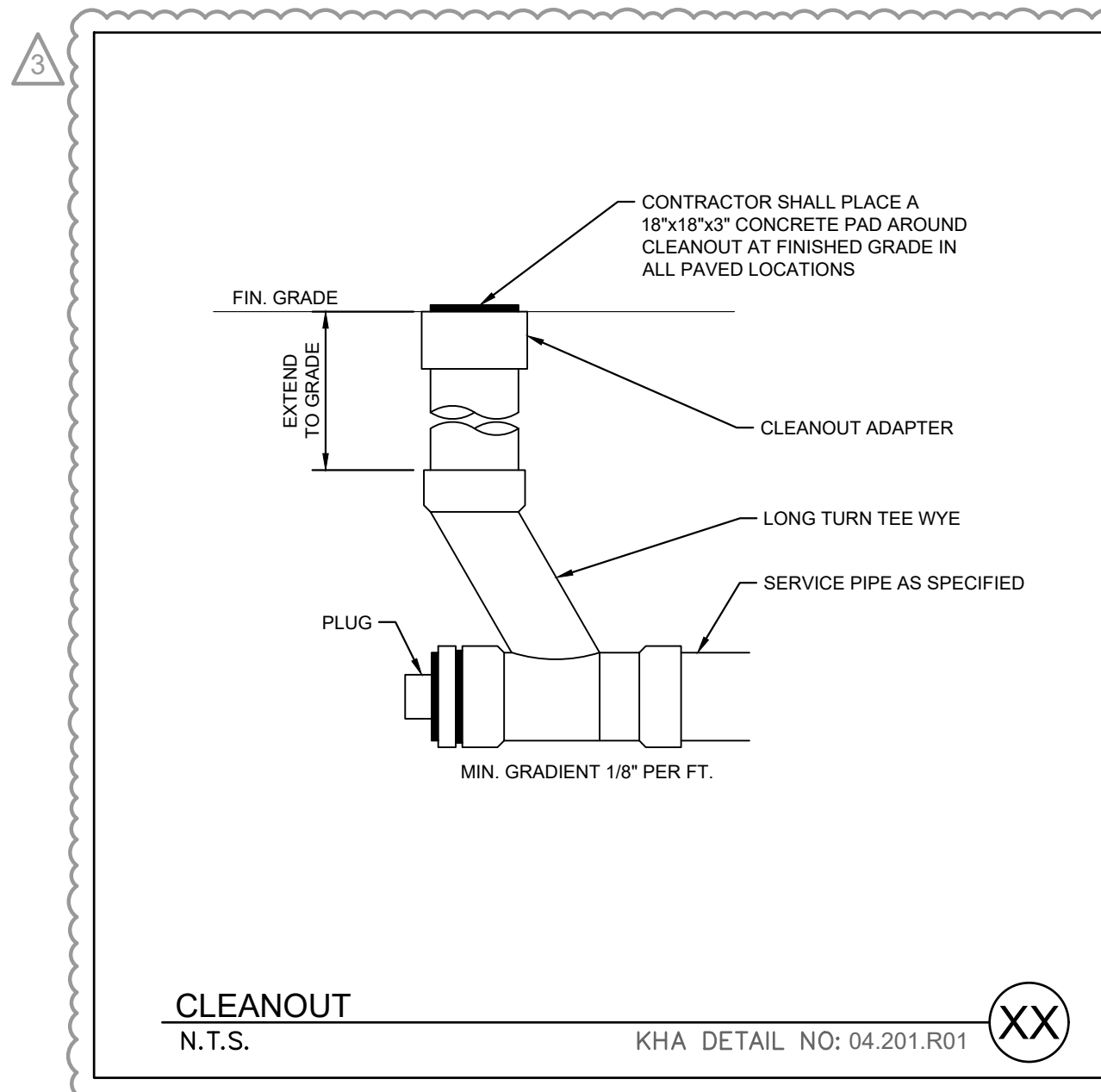
- NOTES:
1. See City of Raleigh standards for trenches and pipe bedding (S-4 & S-5) for additional details.
  2. Pavement cuts over 5'-0\"/>

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



- STYLES ACCEPTED:
- INVERTED NUT
  - RAISED NUT

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
4\"/>				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-34	D.W.C.	3-1-87	RRH	3-30-00
		3-27-98		

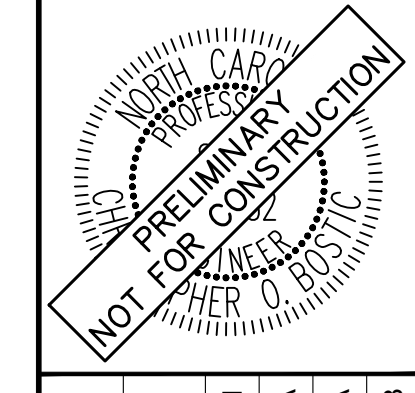


CLEANOUT N.T.S. KHA DETAIL NO: 04.201.R01 XX

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, 27988. 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.

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**Kimley»Horn**  
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#F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050  
421 FAYETTEVILLE STREET, SUITE 800, RALEIGH, NC 27601



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

**SANITARY SEWER DETAILS**

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

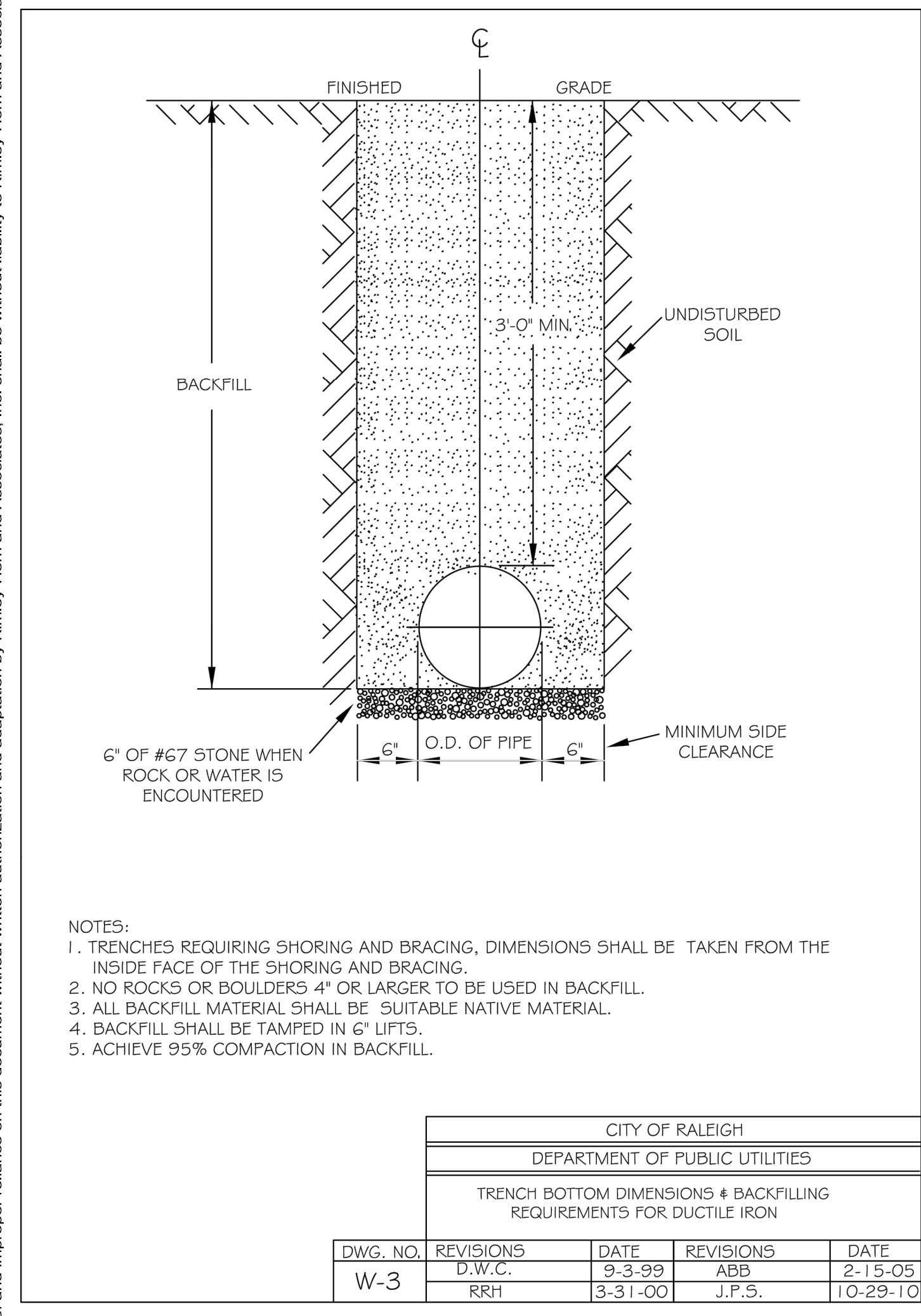
SHEET NUMBER  
**C10.0**



SDP-23-07

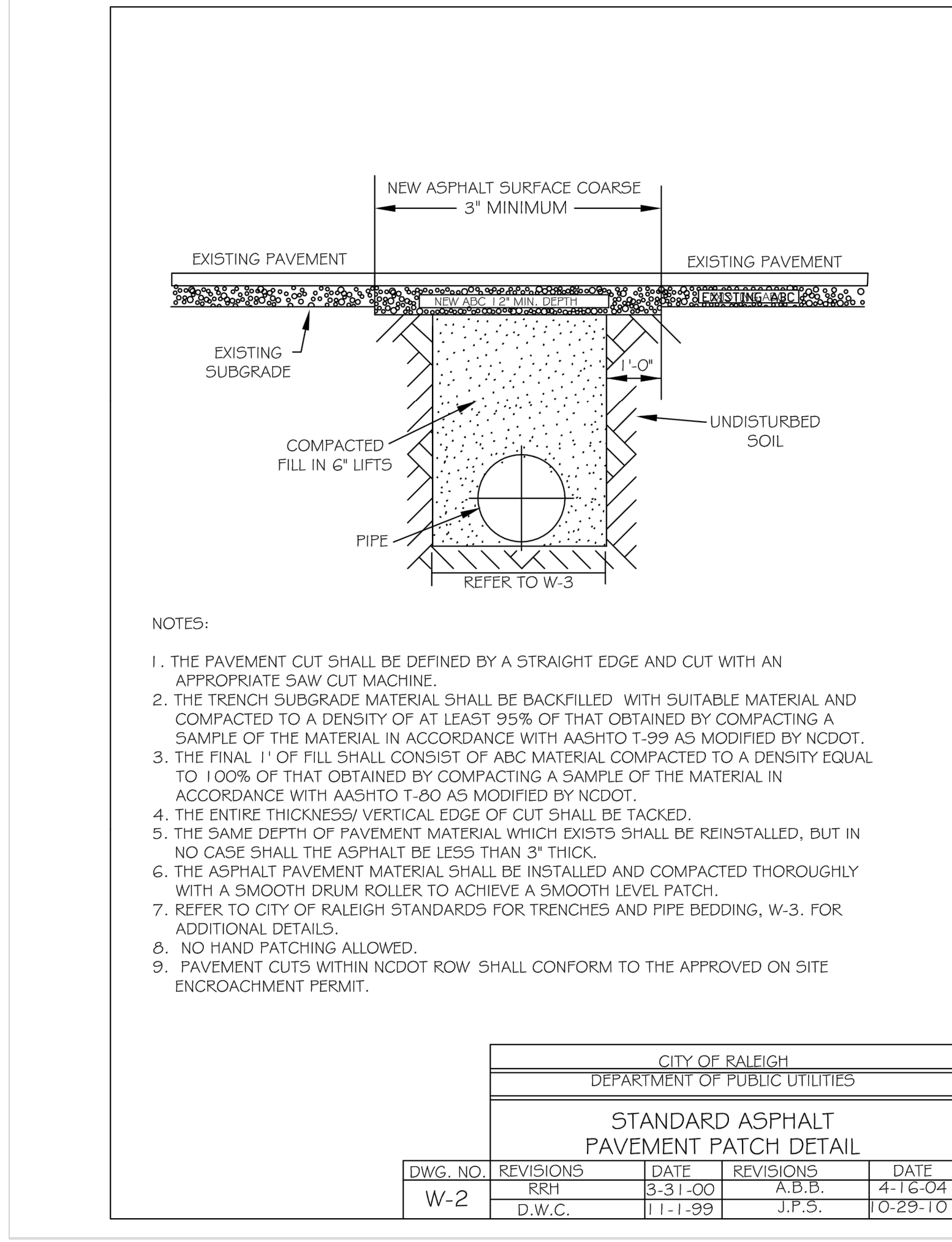


Plotted By: Barnes, Michael. Sheet: THE LEARNING CENTER ROLESVILLE. Layout: C11.0 WATER DETAILS. May 01, 2024. 05:23:52pm. K:\RAL\_LDE\013031004\_Rolesville\_Layouts\CenterP10\_CAD Files\PlanSheets\C11.3 WATER DETAILS.dwg  
 This document, together with the concepts and designs presented herein, is intended 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.



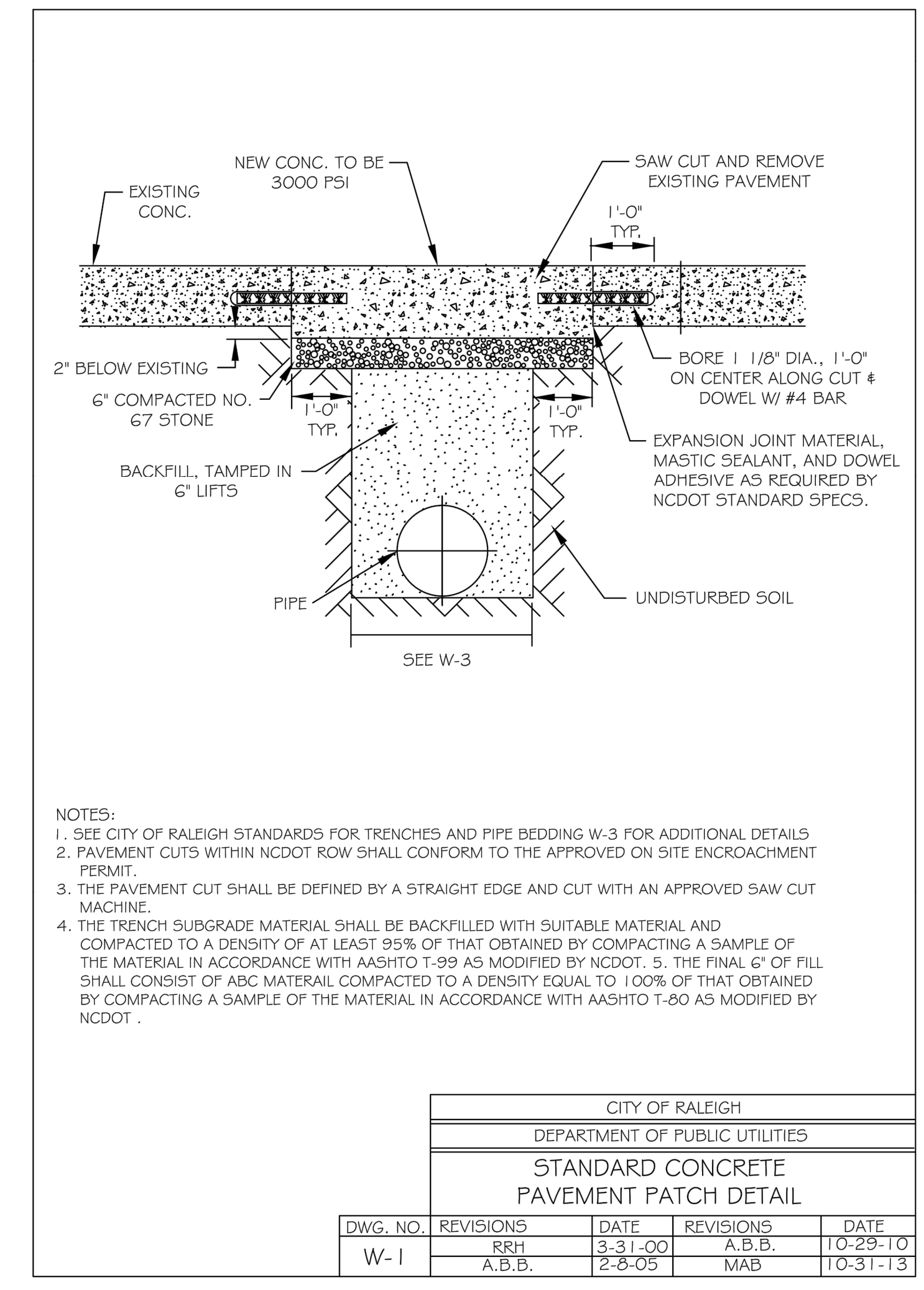
- NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
  2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN BACKFILL.
  3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
  4. BACKFILL SHALL BE TAMPED IN 6" LIFTS.
  5. ACHIEVE 95% COMPACTION IN BACKFILL.

CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES				
TRENCH BOTTOM DIMENSIONS & BACKFILL REQUIREMENTS FOR DUCTILE IRON				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-3	D.W.C.	9-3-99	ABB	2-15-05
	RRH	3-31-00	J.P.S.	10-29-10



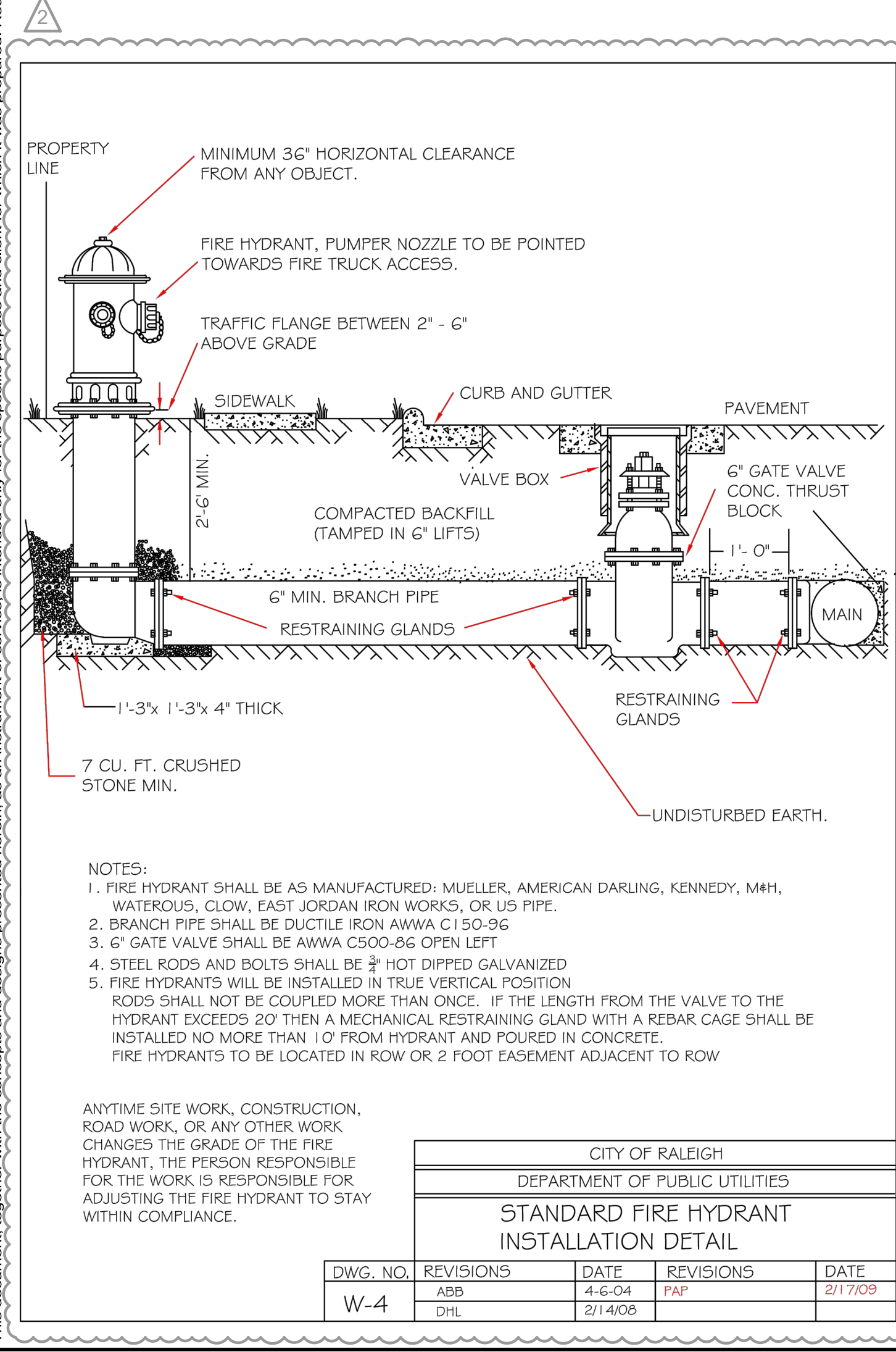
- NOTES:
1. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAW CUT MACHINE.
  2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
  3. THE FINAL 1" OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT.
  4. THE ENTIRE THICKNESS/ VERTICAL EDGE OF CUT SHALL BE TACKED.
  5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LFS THAN 3" THICK.
  6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
  7. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING, W-3, FOR ADDITIONAL DETAILS.
  8. NO HAND PATCHING ALLOWED.
  9. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES				
STANDARD ASPHALT PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-2	RRH	3-31-00	A.B.B.	4-16-04
	D.W.C.	11-1-99	J.P.S.	10-29-10



- NOTES:
1. SEE CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING W-3 FOR ADDITIONAL DETAILS.
  2. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.
  3. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROVED SAW CUT MACHINE.
  4. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT. 5. THE FINAL 6" 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.

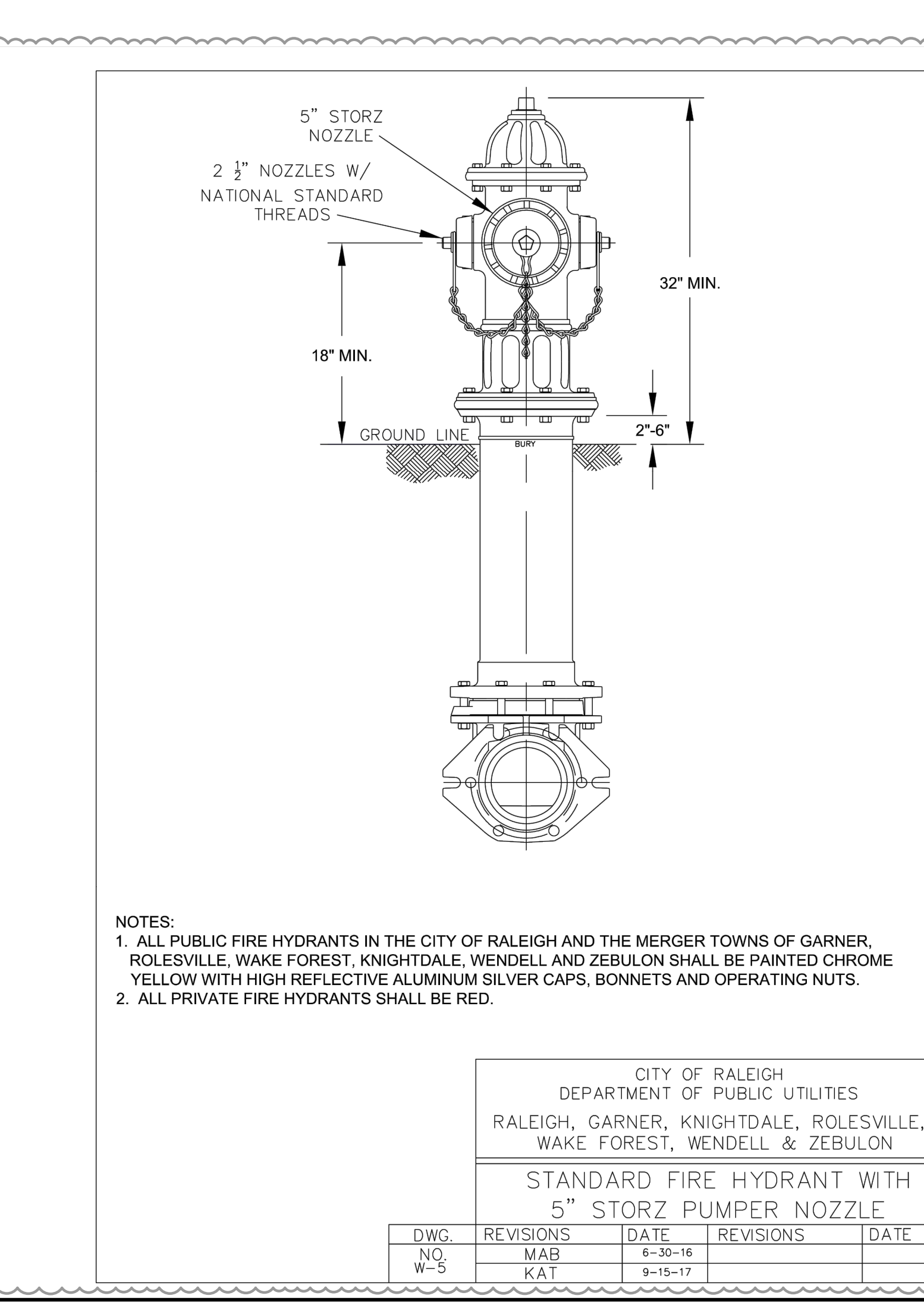
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES				
STANDARD CONCRETE PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-1	RRH	3-31-00	A.B.B.	10-29-10
	A.B.B.	2-8-05	MAB	10-31-13



- NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, M4H, WATEROUS, CLOW, EAST JORDAN IRON WORKS, OR US PIPE.
  2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96
  3. 6" GATE VALVE SHALL BE AWWA C500-96 OPEN LEFT
  4. STEEL RODS AND BOLTS SHALL BE 1/2" HOT DIPPED GALVANIZED
  5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION
- RODS SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR CAGE SHALL BE INSTALLED NO MORE THAN 1' FROM HYDRANT AND POURED IN CONCRETE.
- FIRE HYDRANTS TO BE LOCATED IN ROW OR 2 FOOT EASEMENT ADJACENT TO ROW

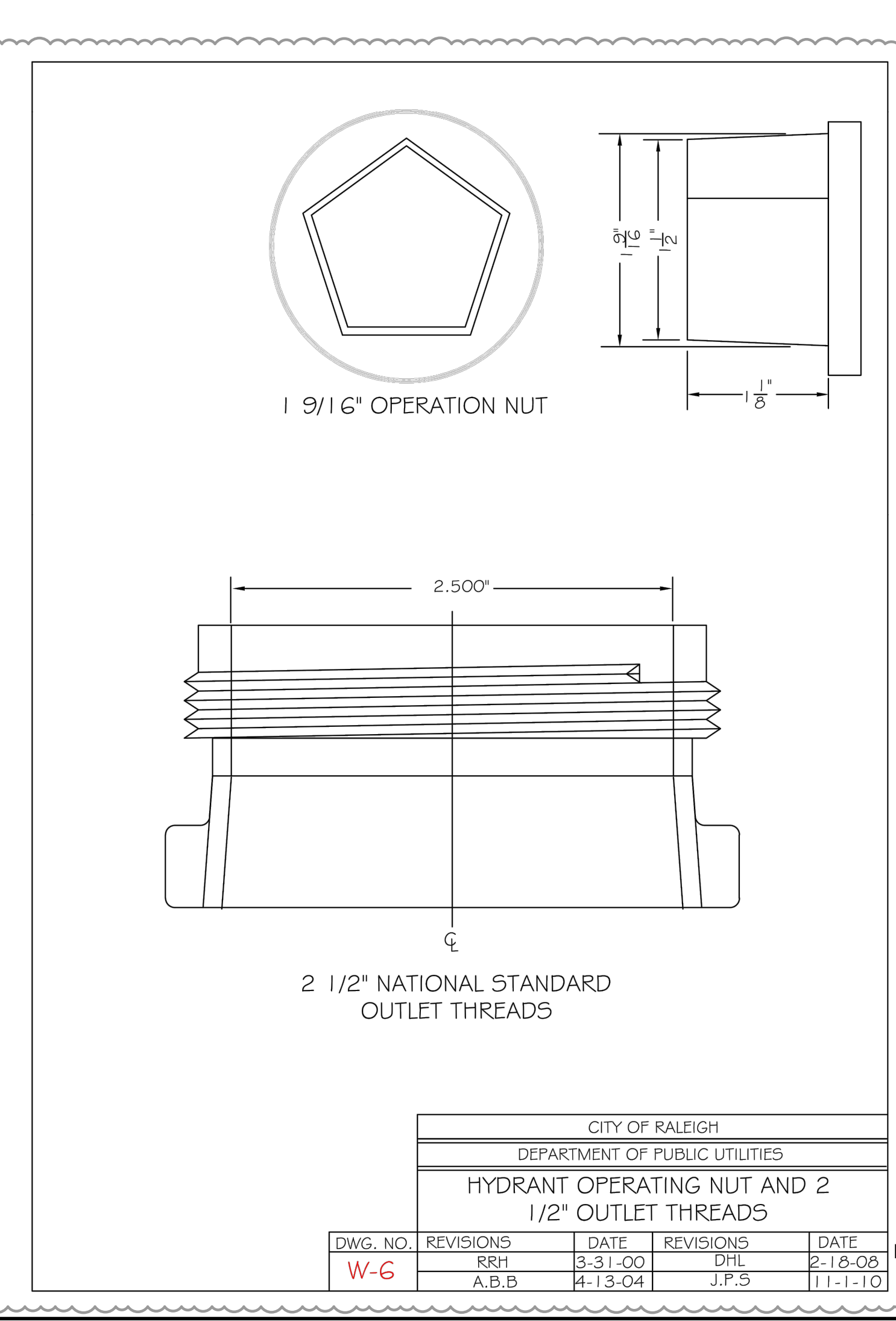
ANYTIME SITE WORK, CONSTRUCTION, ROAD WORK, OR ANY OTHER WORK CHANGES THE GRADE OF THE FIRE HYDRANT, THE PERSON RESPONSIBLE FOR THE WORK IS RESPONSIBLE FOR ADJUSTING THE FIRE HYDRANT TO STAY WITHIN COMPLIANCE.

CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES				
STANDARD FIRE HYDRANT INSTALLATION DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-4	ABB	4-6-04	PAF	2/17/09
	DHL	2/14/06		



- NOTES:
1. ALL PUBLIC FIRE HYDRANTS IN THE CITY OF RALEIGH AND THE MERGER TOWNS OF GARNER, ROLESVILLE, WAKE FOREST, KNIGHTDALE, WENDELL AND ZEBULON SHALL BE PAINTED CHROME YELLOW WITH HIGH REFLECTIVE ALUMINUM SILVER CAPS, BONNETS AND OPERATING NUTS.
  2. ALL PRIVATE FIRE HYDRANTS SHALL BE RED.

CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES				
STANDARD FIRE HYDRANT WITH 5" STORZ PUMPER NOZZLE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-5	MAB	6-20-16		
	KAT	9-16-17		



CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES				
HYDRANT OPERATING NUT AND 2 1/2" OUTLET THREADS				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-6	RRH	3-31-00	DPL	2-18-08
	A.B.B.	4-13-04	J.P.S.	11-1-10

**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.

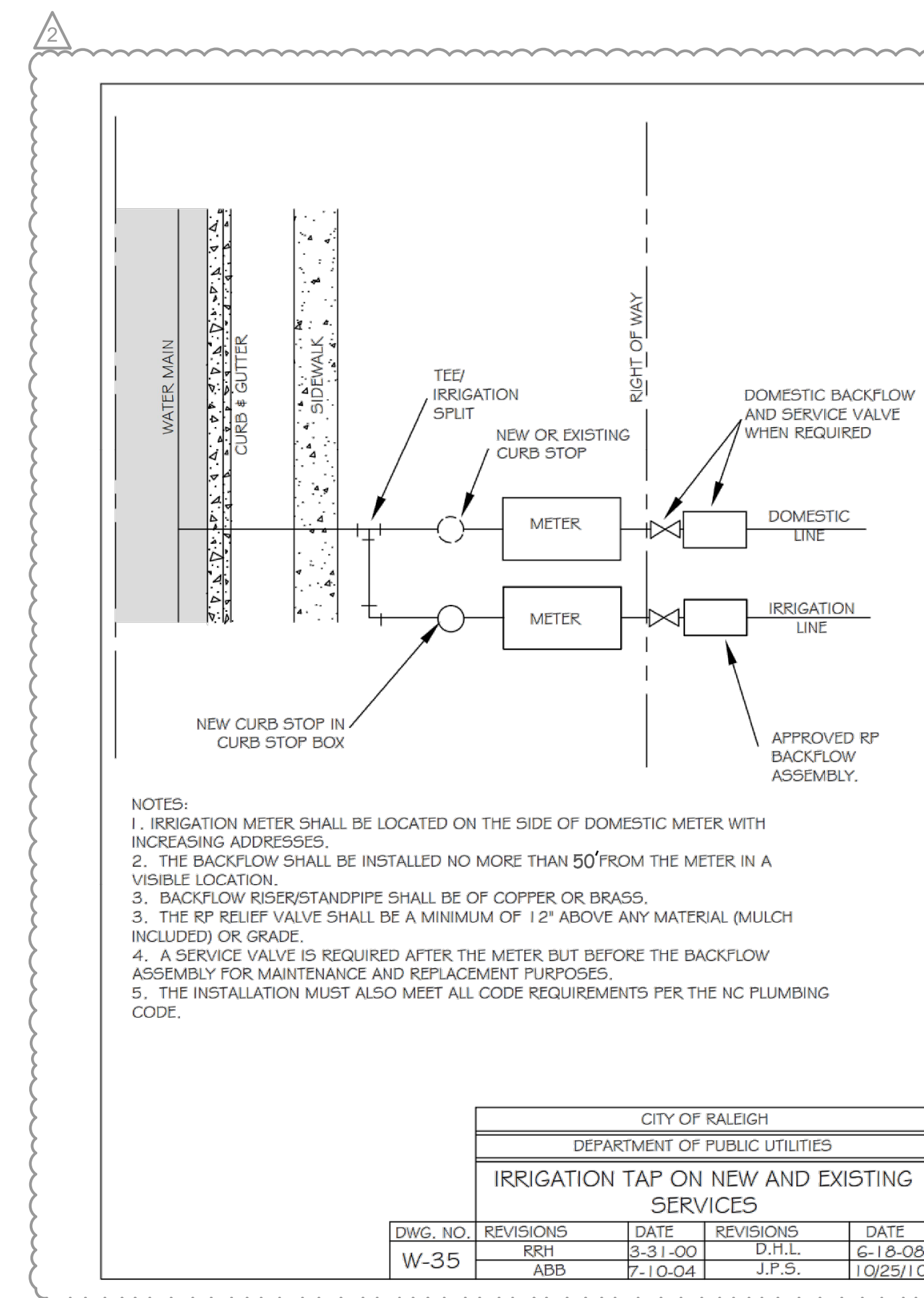
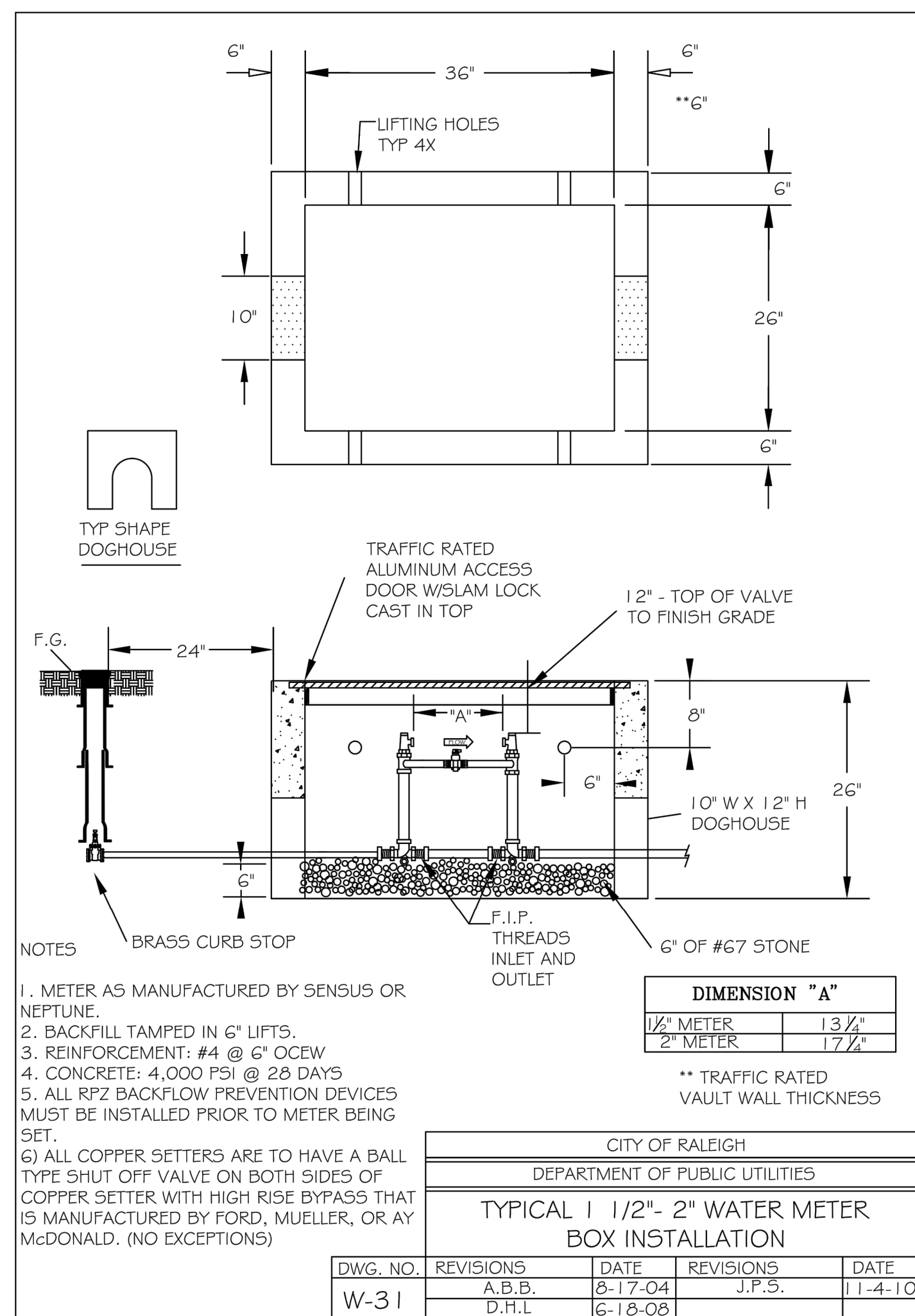
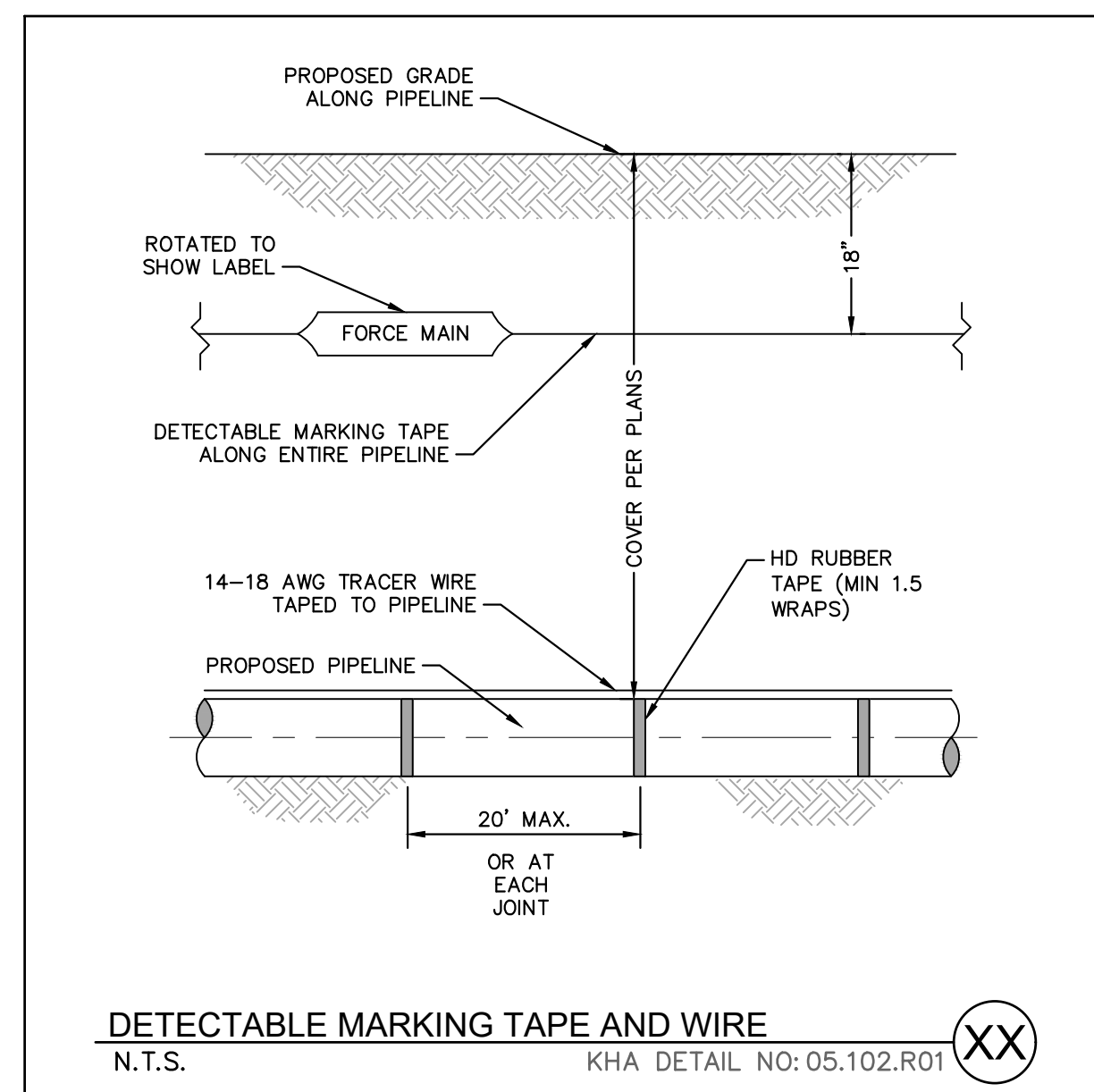
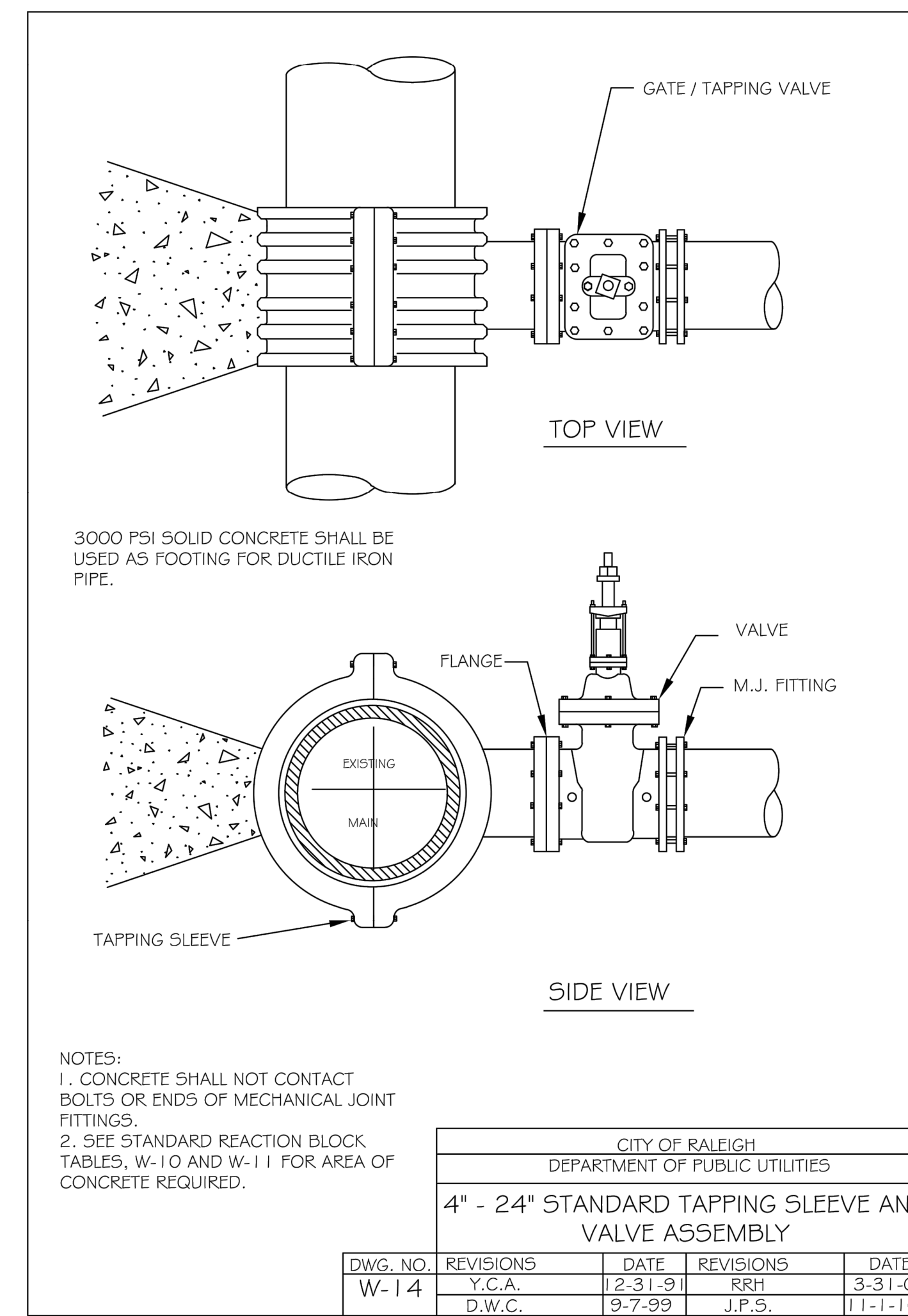
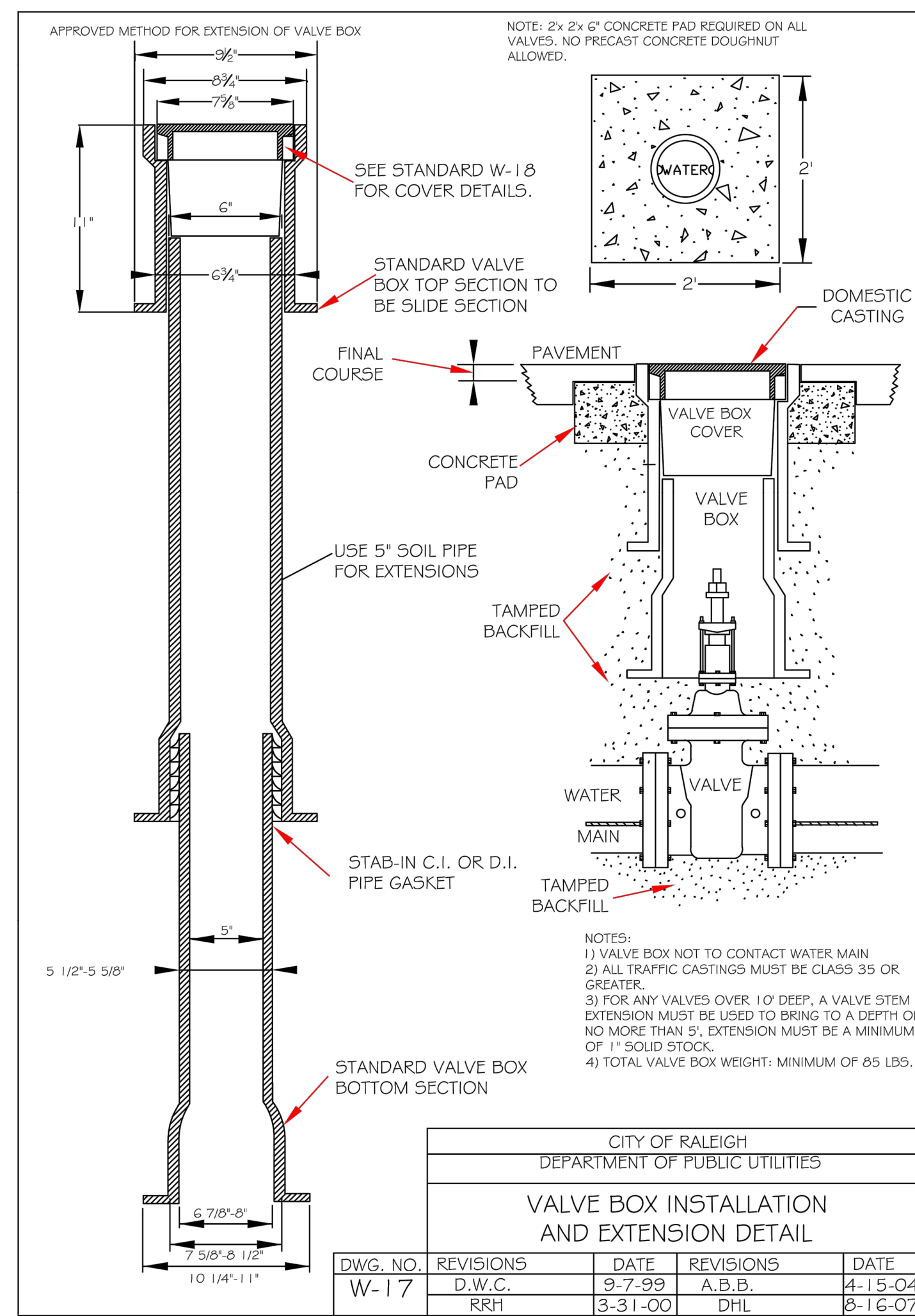
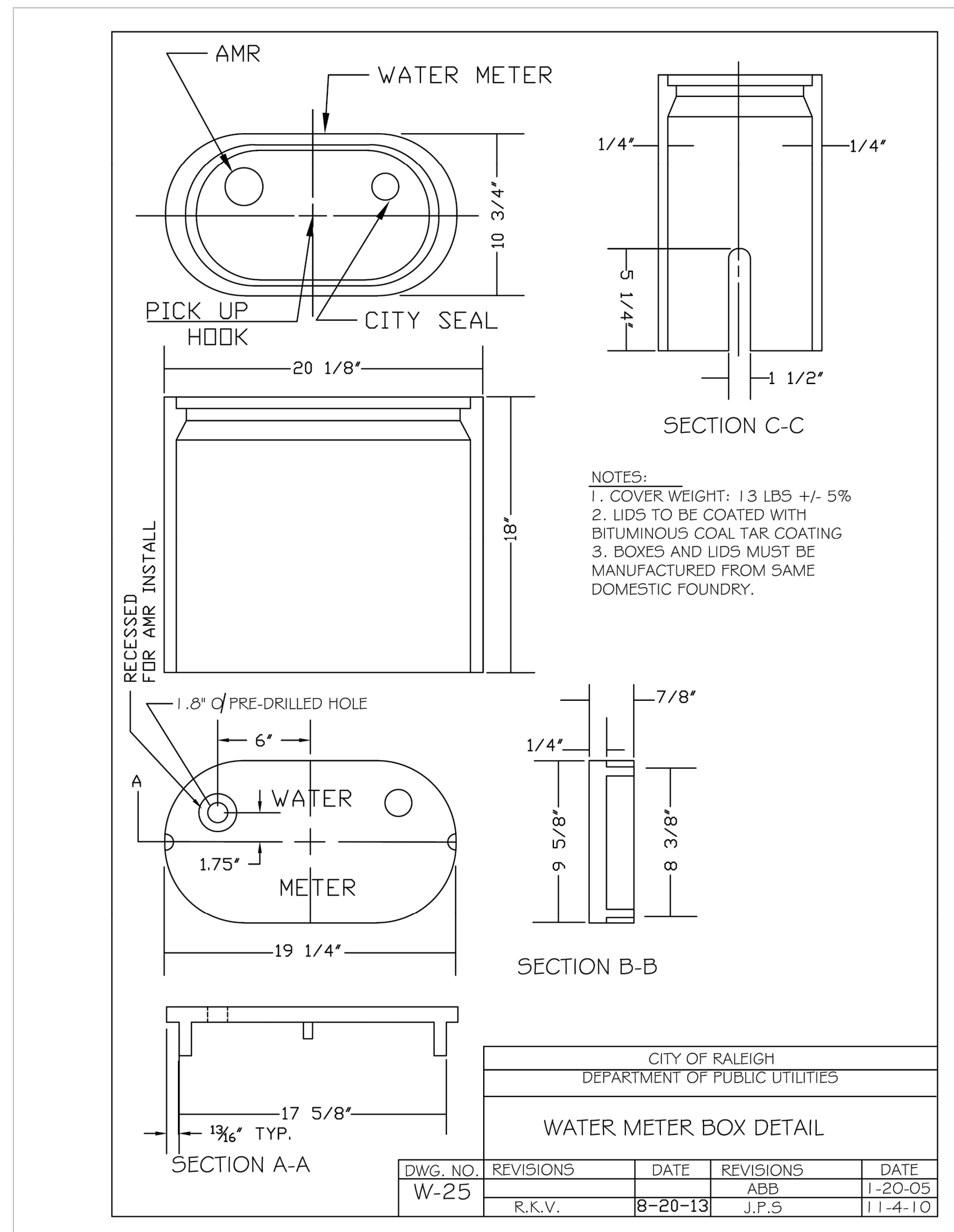


SDP-23-07

KHA PROJECT 013031004		DATE 09/29/2023		SCALE AS SHOWN		DESIGNED BY JAA		DRAWN BY JAA		CHECKED BY COE	
						TOWN COMMENTS 03/01/2024 JAA		TOWN COMMENTS 01/02/2024 JAA		REVISIONS DATE BY	
						TOWN COMMENTS 05/01/2024 JAA		TOWN COMMENTS 03/01/2024 JAA		REVISIONS DATE BY	
						TOWN COMMENTS 03/01/2024 JAA		TOWN COMMENTS 01/02/2024 JAA		REVISIONS DATE BY	
						TOWN COMMENTS 05/01/2024 JAA		TOWN COMMENTS 03/01/2024 JAA		REVISIONS DATE BY	
						© 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					
THE LEARNING CENTER ROLESVILLE PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA						WATER DETAILS SHEET NUMBER C11.0					



Plotted By: Barnes, Michael. Sheet: Section: THE LEARNING CENTER ROLESVILLE. Layout: C11.1 WATER DETAILS. May 01, 2024. 05:23:55pm. K:\RAL\_LDEV\013031004\_Rolesville\_Learning\_Center\P10\_CAD Files\PlanSheets\C11.1 WATER DETAILS.dwg. This document, together with the concepts and designs presented herein, is an instrument of service, as 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.

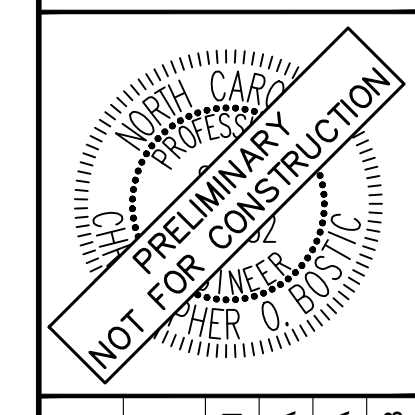


**SURVEY NOTE:**  
1. IRRIGATION METER SHALL BE LOCATED ON THE SIDE OF DOMESTIC METER WITH INCREASING ADDRESSES.  
2. THE BACKFLOW SHALL BE INSTALLED NO MORE THAN 50' FROM THE METER IN A VISIBLE LOCATION.  
3. BACKFLOW RISER/STANDPIPE SHALL BE OF COPPER OR BRASS.  
4. THE RP RELIEF VALVE SHALL BE A MINIMUM OF 12\"/>

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**Kimley»Horn**

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421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601



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

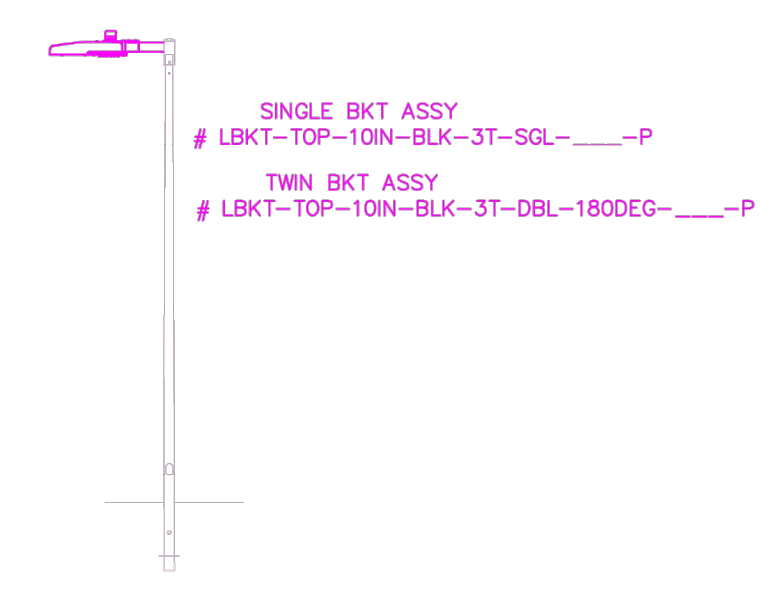
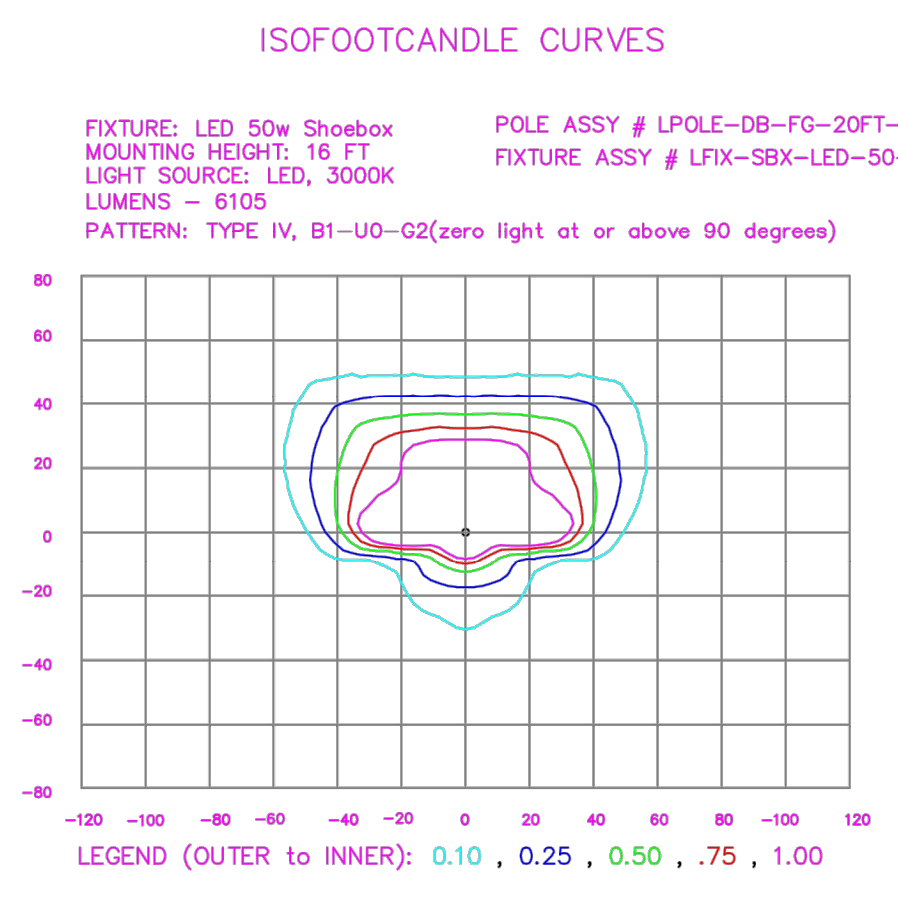
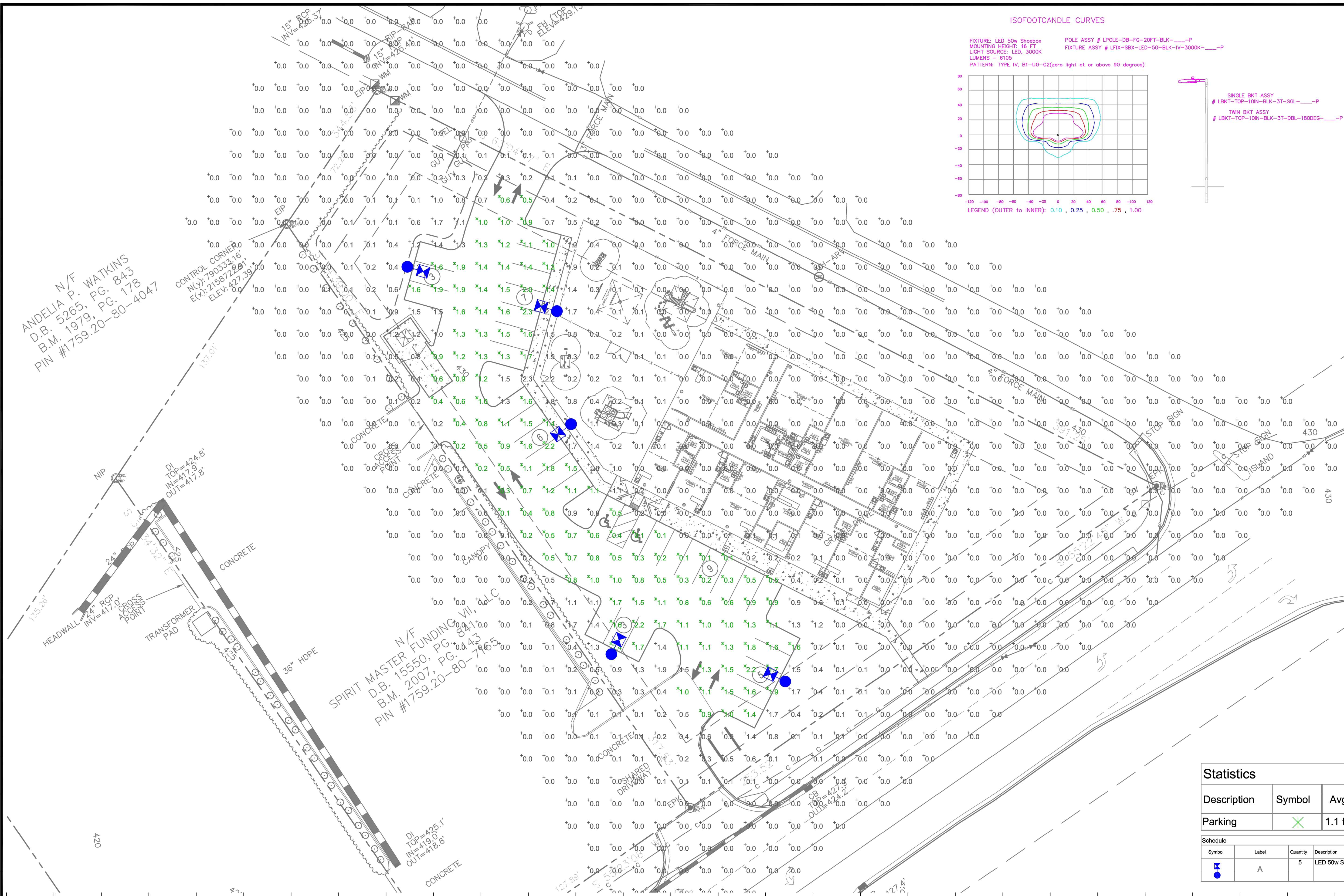
**WATER DETAILS**

**THE LEARNING CENTER ROLESVILLE**  
PREPARED FOR  
**ROLESVILLE, LLC.**  
TOWN OF ROLESVILLE  
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 (white)  
Wattage: 50 watts  
Lumens: 5,100 (1.4:1.6:18)  
Light pattern: IESNA Type IV  
IESNA cutoff classification: Full cutoff  
BUG rating: Type IV - B1 UGG2  
Color temperature: 3,000K (1.4:1.6:18)

POLE AVAILABLE	MOUNTING HEIGHT	COLOR
Aluminum	12', 15', 17'	Black
Flangeless	12'	Black
Flush Concrete	12'	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](mailto:GOLC@dukeenergy.com)

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

CONTROL CORNER  
N(4) 7903.53.16'  
E(X) 21587.22.88'  
ELEV. 427.39'

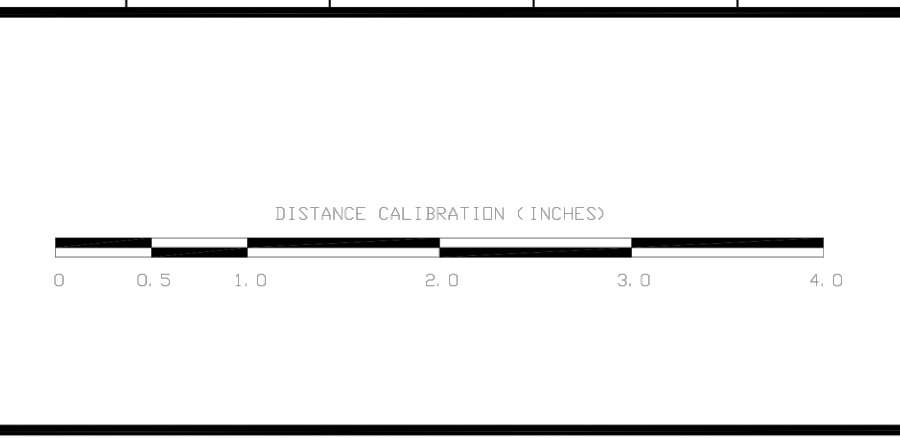
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B.M. 2007, PG. 443  
PIN #1759.20-80-74635

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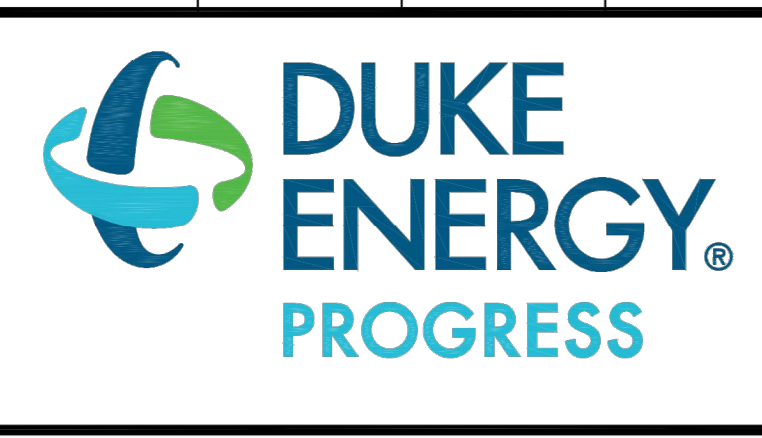
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Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking	X	1.1 fc	2.4 fc	0.1 fc	24.0:1	11.0:1

Schedule						
Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
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











H:\DRAWINGS\TILE - THE LEARNING EXPERIENCE\TILE - NORTH CAROLINA\TILENC23-228 - TILE ROLESVILLE US HWY 401 S MAIN ST\SPACE PLANS\TILENC23-228-SA-1.DWG CSCHWEIKER PLOTTED: 12/21/2023

LICENSING CALCULATIONS								
Learning Experience, Roseville, North Carolina								
ROOM NAME	STATE REQUIRED AREA	NET AREA	ACTUAL AREA	RATIO	# OF CHILDREN	#OF TEACHERS	TEACHER RATIO	AGE GROUP
INFANTS A	440	493	552	55	8	2	1/4	6W-12MO
INFANTS B	440	482	541	55	8	2	1/4	6MO-18MO
TODDLERS A	350	358	417	35	10	2	1/5	18-24 MO
TODDLERS B	350	362	421	35	10	2	1/5	18-24MO
TWADDLERS	560	570	629	35	16	2	1/8	24-30 MO
PREPPERS	560	575	623	35	16	2	1/8	30-36 MO
PRE-SCHOOL 1	630	644	656	35	18	2	1/9	3-5 Y
PRE-SCHOOL 2	840	847	859	35	24	2	1/12	4-5Y
PRE-SCHOOL 3	630	637	649	35	18	2	1/9	3-5Y
PRE K-K	490	502	522	35	14	1	1/14	5-6Y
MBB/PRE-SCHOOL	735	740	752	35	21	2	VARIES	VARIES
TOTALS		6210			163	21		
					2	ADMIN STAFF		
					TOTAL	186		

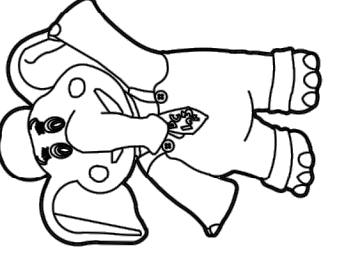
1. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, AND JOB SITE SAFETY.
2. GC MUST PROVIDE & INSTALL ALL PRODUCTS PER PLANS. ONLY SUBSTITUTED 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.



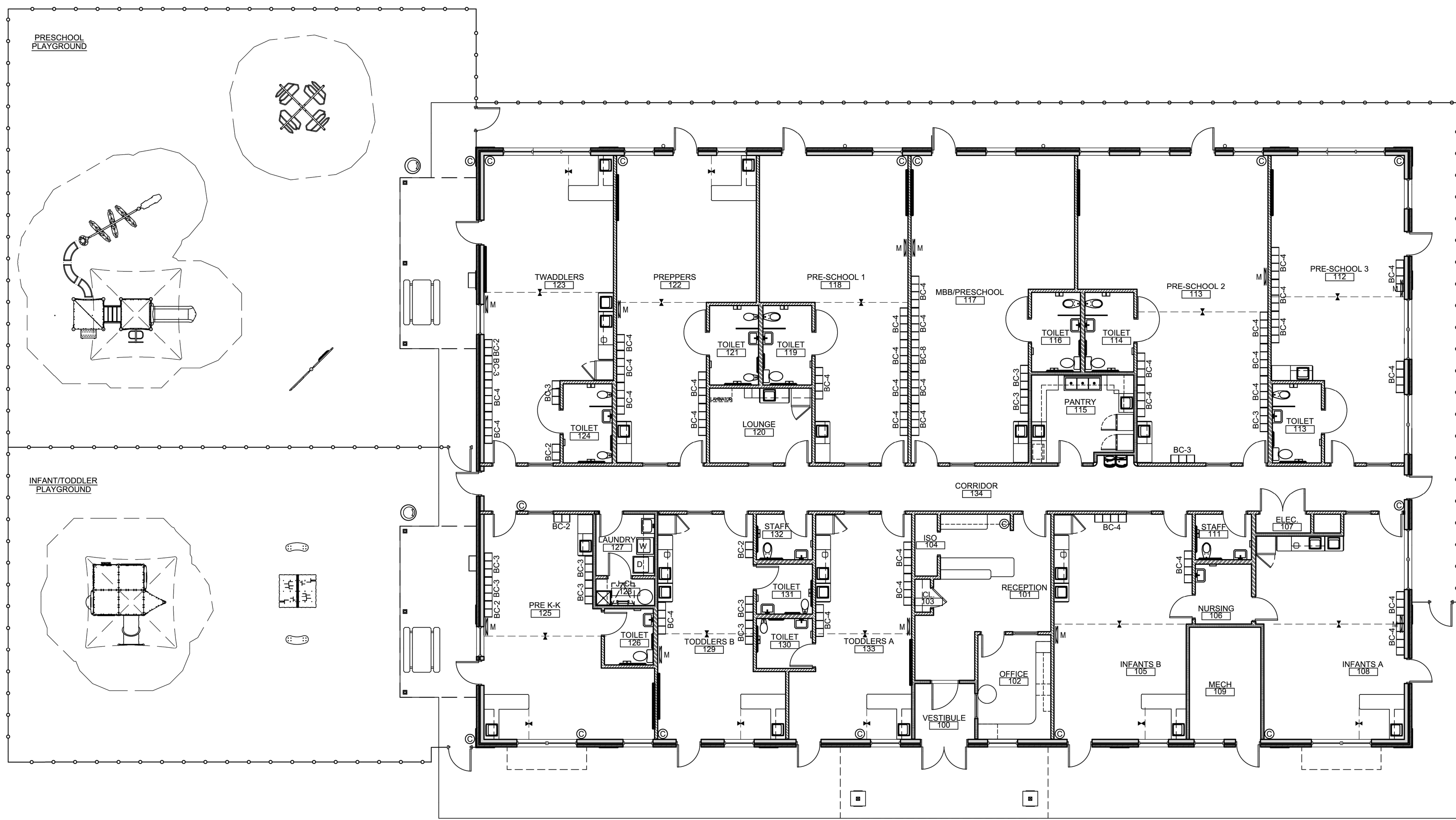
**Jarmel Kizel**  
 ARCHITECTS AND ENGINEERS INC.  
 42 OKNER PARKWAY  
 LIVINGSTON, NEW JERSEY 07039  
 TEL: 973-994-9669  
 FAX: 973-994-4069  
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Architecture  
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 Implementation Services

THE LEARNING EXPERIENCE  
 ACADEMY OF EARLY EDUCATION



US Hwy 401 S Main St  
 ROLESVILLE NORTH CAROLINA



**1 FLOOR PLAN**  
 SCALE: 1/8"=1'-0"

ISSUE			
NO.	DATE	DESCRIPTION	INT.

REVISION			
NO.	DATE	DESCRIPTION	INT.

PROFESSIONAL CERTIFICATION  
 NAME OF LICENSEE:  
 MATTHEW B. JARME  
 LICENSE NUMBER: 10120

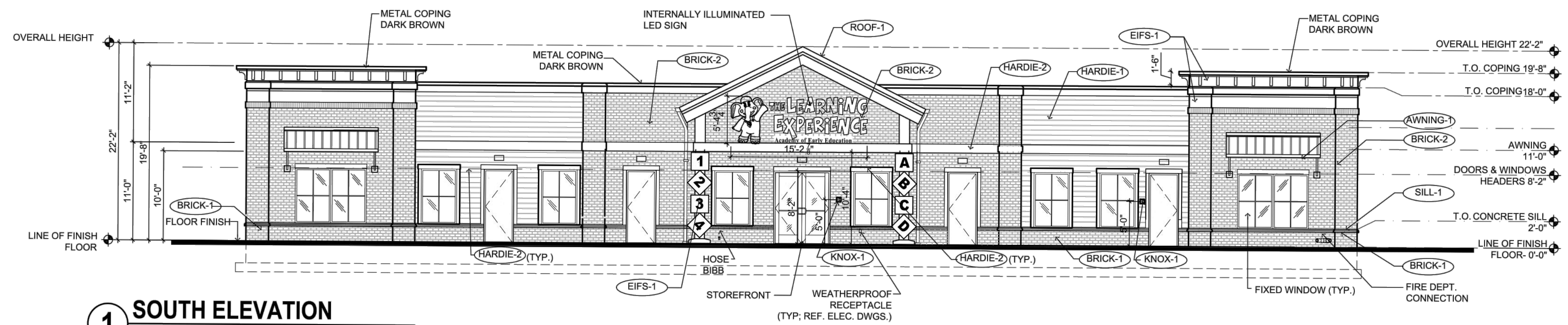
Project Number: TLENC23-228	Scale: AS NOTED
Drawn By: BB	Approved By: ---

Drawing Name:  
**PROPOSED FLOOR PLAN**

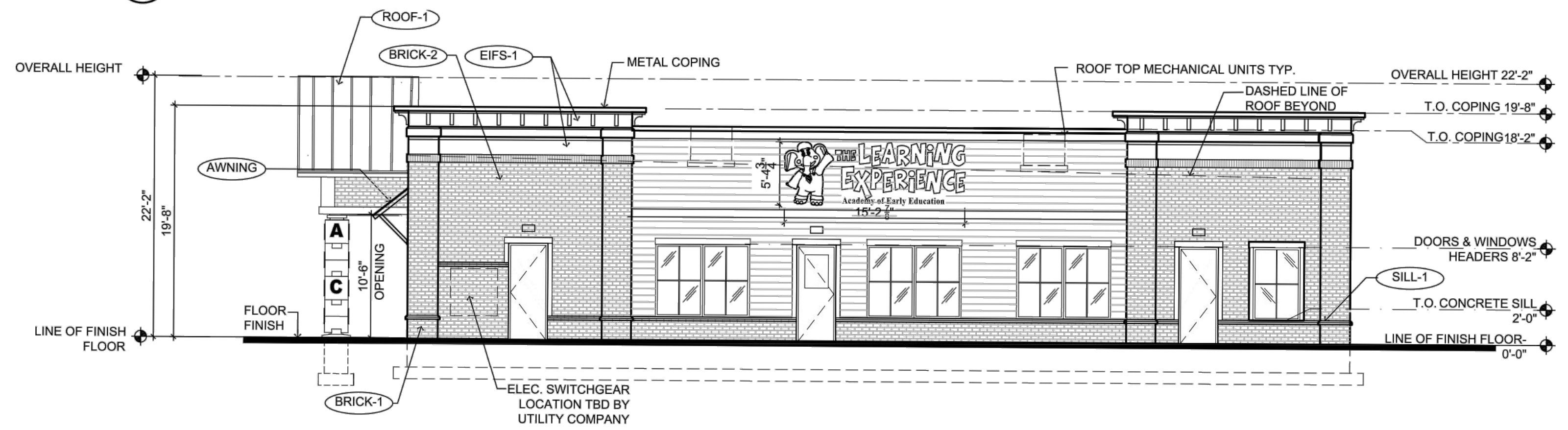
Drawing Number:  
**SA-1.1**



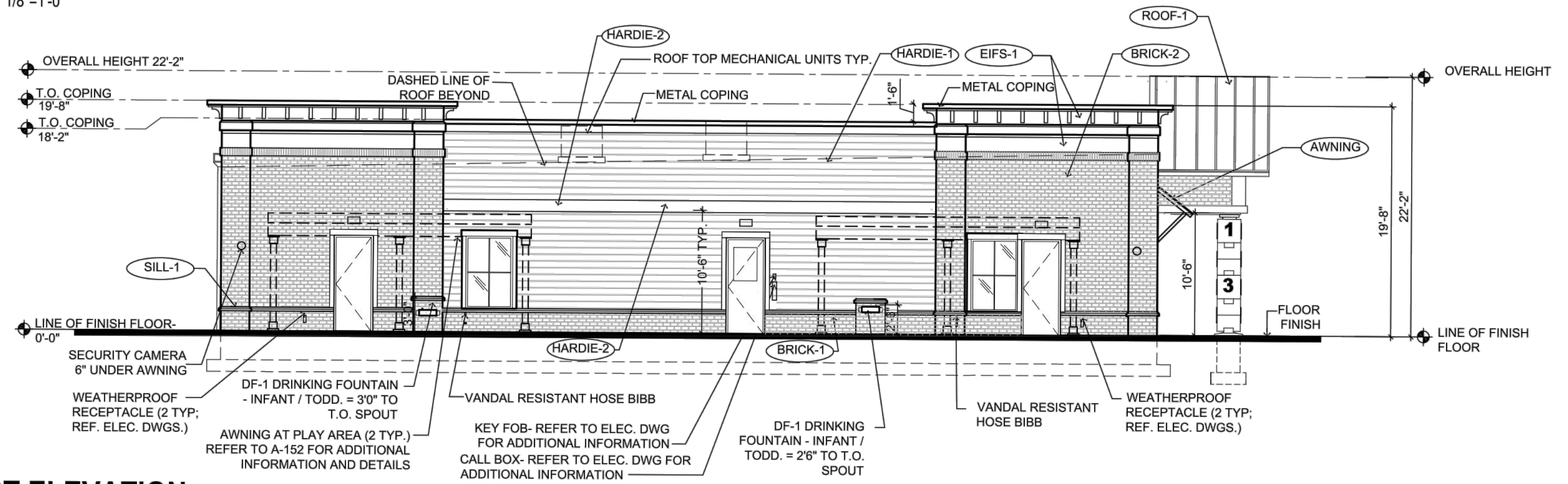
H-DRAWINGS-TITLE - THE LEARNING EXPERIENCE-ITL - NORTH CAROLINA-TLENC23-228 - TLE ROLESVILLE US HWY 401 S MAIN ST-SPACE PLAN-TLENC23-228-SA-1-DWG CSCHWEIKER PLOTTED: 02/29/2024



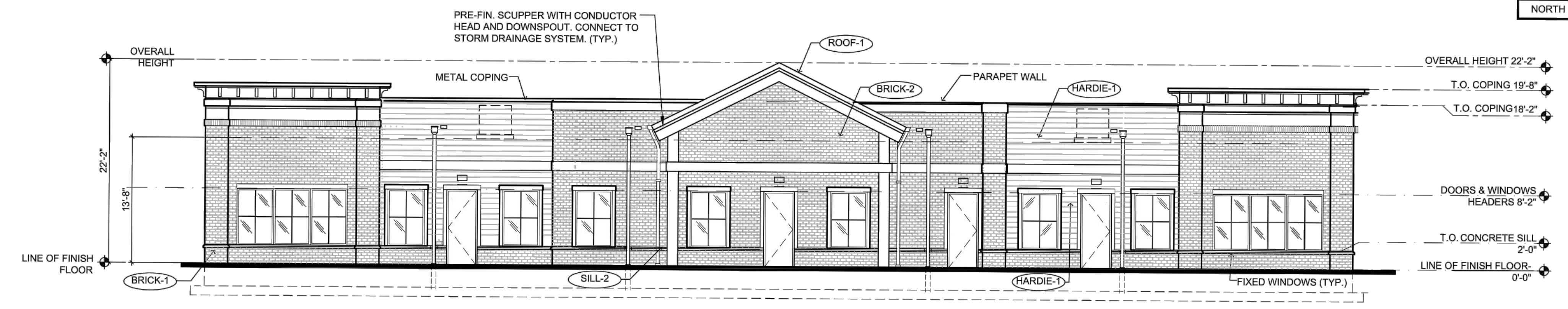
**1 SOUTH ELEVATION**  
SCALE: 1/8"=1'-0"



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



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



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

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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.

TRANSPARENCY CALCULATIONS				
	WALL	TRANSPARENCY	REQUIRED	PROVIDED
SOUTH	1,313 SQ. FT.	408 SQ. FT.	30.0%	31.07%
EAST	840 SQ. FT.	256 SQ. FT.	30.0%	30.48%
WEST	N/A	N/A	N/A	N/A
NORTH	1,313 SQ. FT.	431 SQ. FT.	30.0%	32.83%

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MATTHEW B. JARME  
LICENSE NUMBER: 10120

Project Number: TLENC23-228  
Scale: AS NOTED  
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Approved By: —

Drawing Name:

**PROPOSED ELEVATIONS**

Drawing Number:

SA-1.2