SITE	E DATA TABLE
PIN:	1759806076
TOTAL SITE AREA:	0.70 AC
EXISTING ZONING:	GENERAL COMMERCIAL (GC)
BUFFERS:	30' STREETSCAPE BUFFER
	25' TYPE 3 PERIMETER BUFFER (REAR)
PROPERTY SETBACKS:	FRONT: 20'
	SIDE: 15'
	REAR: 35'
WATERSHED:	SANFORD CREEK
RIVER BASIN:	NEUSE
CURRENT USE:	VACANT
PROPOSED USE:	COMMERCIAL
CURRENT IMPERVIOUS:	144 SF
PROPOSED IMPERVIOUS:	18,700 SF
PARKING:	MIN. REQUIRED: $(2.5 \text{ SPACES/1,000 SF})$ $\frac{X 700 \text{ SF}}{= 2.5 \text{ SPACES}}$
	MAX. ALLOWED: (10 SPACES/1,000 SF) $\frac{X 700 \text{ SF}}{= 7 \text{ SPACES}}$
	PROVIDED: 7 SPACES
ACCESSIBLE PARKING:	REQUIRED: 1 SPACE
	PROVIDED: 1 SPACE
LOADING SPACES:	REQUIRED: 1 SPACE
DIOVOLE DADIZINO:	PROVIDED: 1 SPACE
BICYCLE PARKING:	MIN. REQUIRED: (1 SPACE/5,000 SF) X 700 SF = 1 SPACES
	PROVIDED: 2 SPACES
OPEN SPACE:	TOTAL REQUIRED:
	5% OF TOTAL SITE AREA
	$30,553 \text{ SF } \times 5\% = 1,528 \text{ SF } (0.04 \text{ AC})$
	TOTAL PROVIDED:
	1,553 SF (0.04 AC)
	ACTIVE OPEN SPACE REQUIRED:
	50% OF REQUIRED TOTAL OPEN SPACE
	$1,528 \text{ SF } \times 50\% = 764 \text{ SF } (0.02 \text{ AC})$
	ACTIVE OPEN SPACE PROVIDED:
	1,553 SF (0.04 AC)
	PASSIVE OPEN SPACE REQUIRED:
	TOTAL OPEN SPACE REQUIRED —
	PROVIDED ACTIVE SPACE
	1,528 SF - 1,553 SF = 0 SF (0.0 AC)
	DACCIVE ODENI CDACE DDOMDED:
	PASSIVE OPEN SPACE PROVIDED:
	0 SF (0.0 AC)
TREE COVERAGE DATA:	SEE SHEET L1.0
BUILDING HEIGHT:	19'
BUILDING SQUARE FOOTAGE:	
	R-24-02 WAS APPROVED ON
04-09-2024 BY THE TOWN	BOARD OF ADJUSTMENT (BOA). THE
IVARIANCE ALLOWS THE RED	UCTION OF LDO SECTION 6.2.2.1.G., TYPE 3
PERIMETER BUFFERYARD BE	TWEEN THE SUBJECT PROPERTY AND PIN
1759806216 FROM 25' WIDT	TH TO 7' WIDTH (REDUCTION OF 17') ALONG
A 49' LENGTH OF THE PRO	PERTY LINE AND FROM 25' WIDTH TO 5'
WID THE REDUCTION OF 20)	ALONG A 40' LENGTH OF THE PROPERTY NG THE REMAINING 46' LENGTH PORTION OF
	BE REDUCED. AS PART OF THE VARIANCE,
	INSTALL ALL THE LANDSCAPING OF A 25'
	WITHIN THE REDUCED BUFFER AREA.

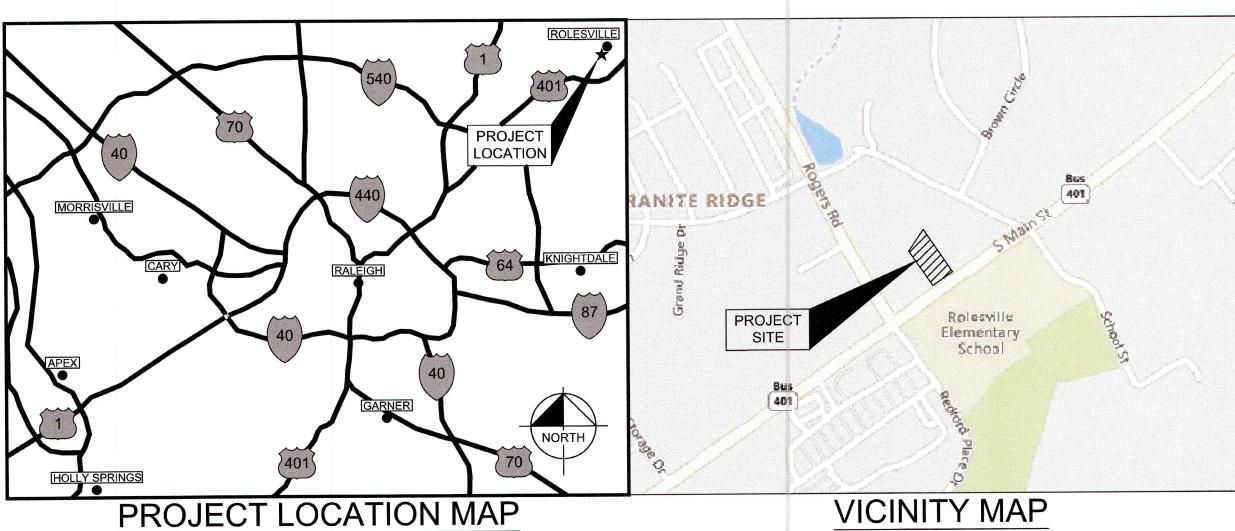
SCOOTER'S ROLESVILLE

306 SOUTH MAIN STREET

ROLESVILLE, NC 27571

A DEVELOPMENT BY: S&S JAVA ENTERPRISES

PROJECT NO.: SDP-23-09 DATE: OCTOBER 31, 2023



PROJECT OWNERS & CONSULTANTS

0110155
OWNER
ROLESVILLE, LLC
11016 RUSHMORE DRIVE, SUITE 160
CHARLOTTE, NORTH CAROLINA 28277
CONTACT: MARLANE KLINTWORTH
PHONE: (919) 868-4472
EMAIL: mvkcommercial@gmail.com

SCALE: NOT TO SCALE

DEVELOPER
S&S JAVA ENTERPRISES - ROLESVILLE, LLC 13 LAFOY DRIVE CLAYTON, NORTH CAROLINA 27527 CONTACT: ROBERT SOUTHERLAND PHONE: (919) 426-7670 EMAIL: b2driver@earthlink.net

LANDSCAPE ARCHITECT KIMLEY-HORN AND ASSOCIATES, INC. 421 FAYETTEVILLE ST., SUITE 600
RALEIGH, NORTH CAROLINA 27601
CONTACT: ADAM FULLERTON, MLA, ASLA PHONE: (919) 653-2937 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@cmppls.com

CIVIL ENGINEER KIMLEY-HORN AND ASSOCIATES, INC. 421 FAYETTEVILLE ST., SUITE 600 RALEIGH, NORTH CAROLINA 27601 CONTACT: CHRIS BOSTIC, P.E. PHONE: (919) 653-2927 EMAIL: chris.bostic@kimley-horn.com

Rolesville

SDP-23-09 / Site Development Plan /

Town of Rolesville Planning Department

306 S. Main St. – Scooters Coffee

Date: September 24, 2024

Meredith Truber

APPROVED

SCALE: 1" = 500'

Sheet List Table				
Sheet Number Sheet Title				
C0.0	COVER SHEET			
C0.1	GENERAL NOTES			
C1.0	EXISTING CONDITIONS & DEMOLITION PLAN			
C2.0	SITE PLAN			
C3.0	GRADING AND DRAINAGE PLAN			
C4.0	UTILITY PLAN			
C4.1	MECHANICAL PLAN			
C4.2	SEPTIC TANK DETAILS			
C5.0	EROSION CONTROL PLAN - PHASE 1			
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C5.2	EROSION CONTROL PLAN - PHASE 3			
C5.3	EROSION CONTROL DETAILS			
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C6.0	WET POND DETAILS			
C8.0	SITE DETAILS			
C8.1	SITE DETAILS			
C9.0	STORM DETAILS			
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C10.0	SANITARY SEWER DETAILS			
C11.0	WATER DETAILS			
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L1.0	LANDSCAPE PLAN			
L2.0	LANDSCAPE DETAILS			
L2.1	LANDSCAPE NOTES			
E3.1	EXTERIOR SITE PHOTOMETRIC PLAN			
E3.3	EXTERIOR LIGHTING CUTSHEETS			
E3.4	EXTERIOR LIGHTING CUTSHEETS			
A1.5	TRASH ENCLOSURE PLAN			
A2.1	EXTERIOR ELEVATIONS			
A2.2	EXTERIOR ELEVATIONS			
A7.1	ARCHITECTURAL SITE DETAILS			

DISTURBED AREA: 0.70 AC

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT APPROVED EROSION CONTROL
S- 121946-2024 STORMWATER MGMT.
S-121938-2024

FLOOD STUDY S-

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

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

POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

Know what's below.

Call before you dig.

modification to this approval once issued will invalidate this approval.

SHEET NUMBER C0.0

SHE

COVER

PREPARED FOR JAVA ENTERPRISES

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION Raleigh Water Review Officer

SDP-23-09

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 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
- 2. 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.
- 4. 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.
- 6. 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.
- 9. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE MEETING WITH THE ROLESVILLE ENGINEERING DIVISION AND THE OWNER.
- 10. CONTRACTOR IS RESPONSIBLE FOR VERIFYING OR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- 11. 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.
- 12. ROADWAYS AND BUILDINGS MUST BE CAPABLE OF SUPPORTING FIRE APPARATUS DURING CONSTRUCTION.
- 13. EXISTING INFORMATION SHOWN TAKEN FROM A TOPOGRAPHIC SURVEY DATED FEBRUARY 23, 2023 AND PROVIDED BY CMP PROFESSIONAL LAND SURVEYORS C-1525, 333 S. WHITE STREET, P.O. BOX 1253, WAKE FOREST, N.C. 27588, PHONE: (919) 556-3148.
- 14. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NC DOT AND ROLESVILLE STANDARDS, SPECIFICATIONS, & DETAILS IF APPLICABLE.

GRADING

- 1. OBTAIN AND POST THE WAKE COUNTY LAND DISTURBANCE PERMIT ONSITE PRIOR TO COMMENCING WORK ON SITE.
- 2. REFER TO FINAL CONSTRUCTION PLANS FOR CLEARING LIMITS AND TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- 3. CONTRACTOR SHALL ADHERE TO THE LIMITS OF TREE PROTECTION FENCE.
- 4. 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
- 5. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE 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 FROSION CONTROL DEVICES LIPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- 6. 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
- 9. 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
- 10. ALL DEMOLITION, DEBRIS, AND OTHER EXCESS MATERIAL SHALL BE HAULED OFF-SITE AND LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- 11. NO TREE WITHIN THE TREE PROTECTION AREA SHALL BE REMOVED OR DAMAGED.

REFUSE DEBRIS DERIVED FROM ANY SOURCE.

- 12. 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.
- 13. REFERENCE GEOTECHNICAL REPORT FOR PAVING SUB GRADE INFORMATION.
- 14. 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).
- 15. PROPOSED CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND ROADWAY PROFILES/SUPERELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY.
- 16. REFER TO SITE PLAN AND FINAL PLAT FOR HORIZONTAL DIMENSIONS.
- 17. WHERE FILL IS TO BE PLACED ON EXISTING SLOPES STEEPER THAN 4:1, CONTRACTOR SHALL EXCAVATE BENCHES WITH A MAXIMUM DEPTH OF 3'.
- 18. THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR APPROPRIATE SLOPE STABILIZATION ON ALL SLOPES STEEPER THAN 3:1.
- 19. 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.
- 20. SILT FENCE SHALL BE PLACED AROUND ALL TEMPORARY SOIL STOCKPILES A MINIMUM OF 3' FROM TOE OF SLOPE.
- 21. VERTICAL DATUM IS BASED ON NAVD 88.

Sanitary sewer

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

- 1. 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.
- 2. ALL UNDERGROUND UTILITIES AND FIRE HYDRANTS MUST BE FUNCTIONALLY APPROVED PRIOR TO STRUCTURAL
- 3. NATIONAL STANDARD THREADS SHALL BE INSTALLED ON FIRE HYDRANTS.
- 4. 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.
- 2. 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

EASEMENTS ON THE JOB SITE AT ALL TIMES.

- 1. THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER AND WITH A MINIMUM AMOUNT OF INCONVENIENCE TO TRAFFIC.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL ADHERE TO THE PROVISIONS OF THE MUTCD (MOST CURRENT EDITION).
- 3. PRIOR TO CONSTRUCTION BEGINNING, ALL SIGNAGE AND TRAFFIC CONTROL SHALL BE IN PLACE.
- 4. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF CONTRACT DOCUMENTS AS WELL AS ALL APPROVALS AND
- 5. 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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 AGENT 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
- 8. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES ON PUBLIC STREETS SHALL CONFORM TO MUTCD, NCDOT, AND ROLESVILLE STANDARDS.

STORM DRAINAGE

- 1. 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.
- 2. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
- THE ROLESVILLE INSPECTOR SHALL INSPECT ALL "PUBLIC" CONSTRUCTION. THE CONTRACTOR'S PRICE SHALL INCLUDE ALL INSPECTION FEES.
- 4. ALL RCP STORM SEWER MAINS AND LATERALS SHALL BE MINIMUM CLASS III REINFORCED CONCRETE PIPE.
- 5. ALL PVC PIPE USED IN DRAINAGE SYSTEM SHALL BE MINIMUM SDR-35 OR APPROVED EQUAL.
- 6. ALL PVC TO RCP CONNECTIONS SHALL BE CONSTRUCTED WITH CONCRETE COLLARS.
- 7. 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.
- 8. RIM ELEVATIONS FOR STORM CATCH BASINS ARE MEASURED TO THE GUTTER FLOW LINE.

TRAFFIC CONTROL NOTES

- 1. 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.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL ROLESVILLE AND/OR N.C.D.O.T. STANDARDS AND
- 3. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) FOR DETAILS OF STANDARD TRAFFIC CONTROL SIGNS AND STANDARDS.

SEEDBED PREPARATION

- 1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF
- 2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
- 3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND
- 4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE MIXTURE BELOW).*
- 5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP. 6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK
- AFTER SEEDING. 7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- 8. 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.
- 9. CONSULT S&EC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
- 10. *AGRICULTURAL LIMESTONE 2 TONS/ ACRES (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

PLANTING RATE

25 LBS/ACRE

SEEDING SCHEDULE

(NOV 1 - MAR 1)

AUG 15 - NOV 1 NOV 1 - MAR 1	TALL FESCUE TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE 300 LBS/ACRE 25 LBS/ACRE
MAR 1 - APR 15 APR 15 - JUN 30 JUL 1 - AUG 15	TALL FESCUE HULLED COMMON BERMUDAGRASS TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM-SUDAN HYBRIDS	300 LBS/ACRE 25 LBS/ACRE 120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
SLOPES (3:1 TO 2:1)	
MAR 1 - JUN 1 (MAR 1 - APR 15) (MAR 1 - JUN 30) (MAR 1 - JUN 30)	SERICEA LESPEDEZA (SCARIFIED) AND ADD TALL FESCUE OR ADD WEEPING LOVEGRASS OR ADD HULLED COMMON	50 LBS/ACRE 120 LBS/ACRE 10 LBS/ACRE 25 LBS/ACRE
JUN 1 - SEP 1	BERMUDAGRASS ***TALL FESCUE AND ***BROWNTOP MILLET	120 LBS/ACRE 35 LBS/ACRE
SEP 1 - MAR 1	***OR SORGHUM-SUDAN HYBRIDS SERICEA LESPEDEZA (UNHULLED- UNSCARIFED) AND TALL FESCUE	30 LBS/ACRE 70 LBS/ACRE 120 LBS/ACRE

SHOULDERS, SIDE DITCHES, SLOPES (MAX 3:1)

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

ADD ABRUZZI RYE

) GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

***TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED. PERMANENT

*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

REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.

- 1. 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.
- 2. 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 (NCDEQ) AND WAKE COUNTY EROSION AND SEDIMENT CONTROL
- 3. ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT
- 4. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND
- 5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 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
- 7. 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.
- 8. 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
- 9. 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
- 10. 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
- 11. CONTRACTOR TO ENSURE THAT SEDIMENT LADEN RUNOFF DOES NOT LEAVE SITE LIMITS OR ENTER PROTECTED
- 12. ROLLED EROSION CONTROL PRODUCTS (RECP'S) SHOULD BE USED TO AID PERMANENT VEGETATED STABILIZATION WHEN MULCH CANNOT BE ADEQUATELY TACKED AND WHERE IMMEDIATE GROUND COVER IS REQUIRED TO
- 13. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 21 DAYS AFTER FINAL THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE
- 14. 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.
- 15. 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
- AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREAS. TWO TO THREE INCH STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.

16. TEMPORARY CONSTRUCTION ENTRANCES SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES

- IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING. 18. 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
- 19. 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
- 20. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND
- 21. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO
- RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- 23. 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
- 25. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING UPON FIELD CONDITIONS.
- 28. GRADING MORE THAN 12,000 SF WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE WAKE

*NOT ALL ABBREVIATIONS MAY BE USED FOR THIS PROJECT

- CB CATCH BASIN
- YI YARD INLET CO - CLEAN OUT

TYP. – TYPICAL

- EX EXISTING FES - FLARED-END-SECTION
- PVC POLYVINYL CHLORIDE

RCP - REINFORCED CONCRETE PIPE



EROSION CONTROL NOTES

DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.

DISTURBANCE.

6. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND

OF CONSTRUCTION.

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.

NORTH CAROLINA SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS

AREAS. ANY SEDIMENT DEPOSITED BEYOND DISTURBED AREA WITHIN SITE LIMITS SHALL BE REMOVED.

OF SLOPES 2:1 OR GREATER AND WITH MORE THAN 10' OF VERTICAL RELIEF. RECP'S SHOULD ALSO BE USED PREVENT EROSION DAMAGE.

SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

ORIGINAL APPLICATION.

17. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE

STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE

FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

DISCHARGE TO RECEIVING OUTLET. 22. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH

INSPECTOR'S FINAL APPROVAL IS REQUIRED.

24. STABILIZATION MEASURES SHALL BE APPLIED TO STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

26. LIMITS OF GRADING SHOWN ON THE PLAN ARE MAXIMUM LIMITS FOR EROSION CONTROL PURPOSES ONLY. SURVEYOR TO DETERMINE ACTUAL LIMIT.

27. 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.

COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.

ABBREVIATIONS

DI - DROP INLET

JB - JUNCTION BOX LOD - LIMITS OF DISTURBANCE

> 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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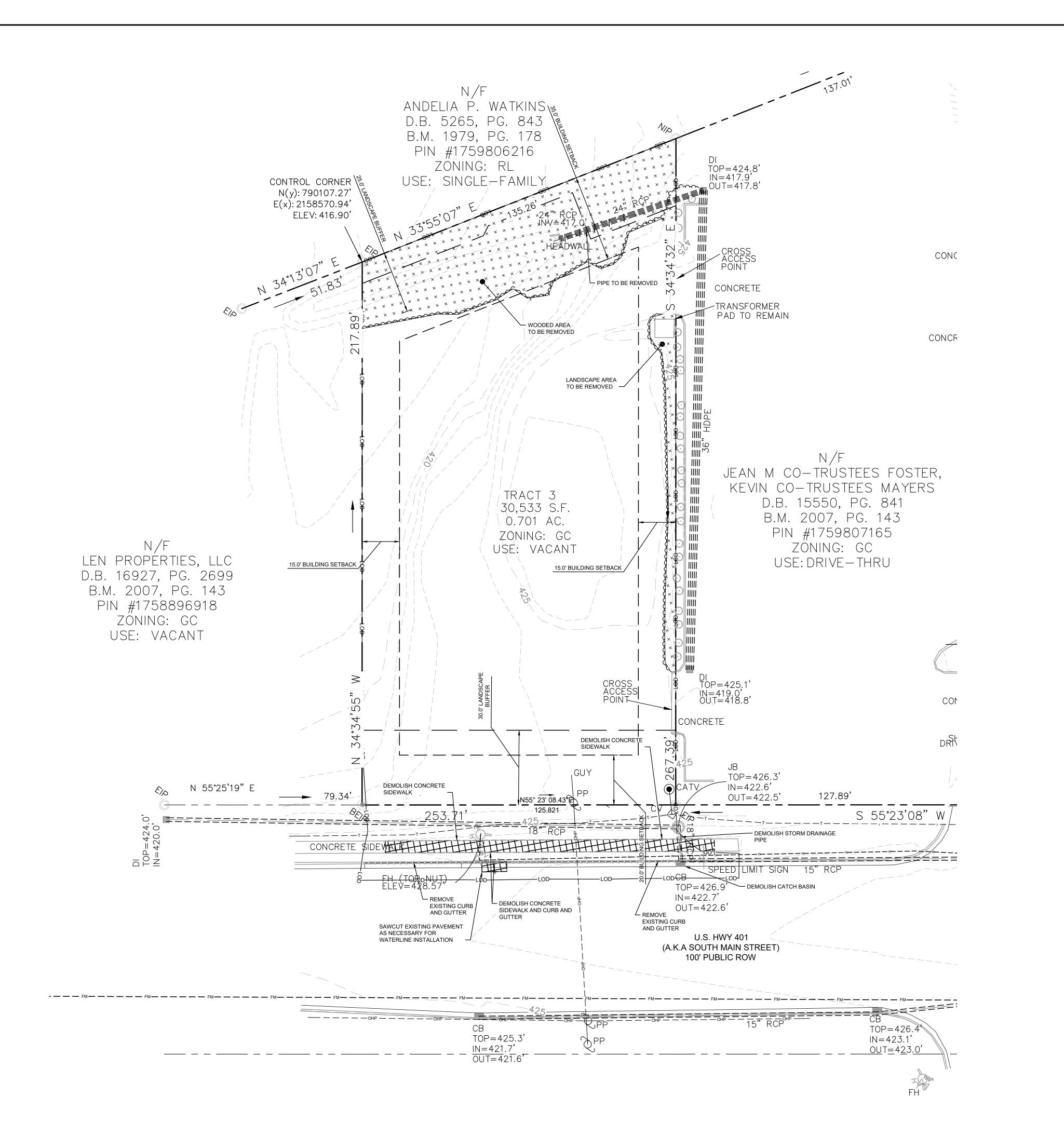
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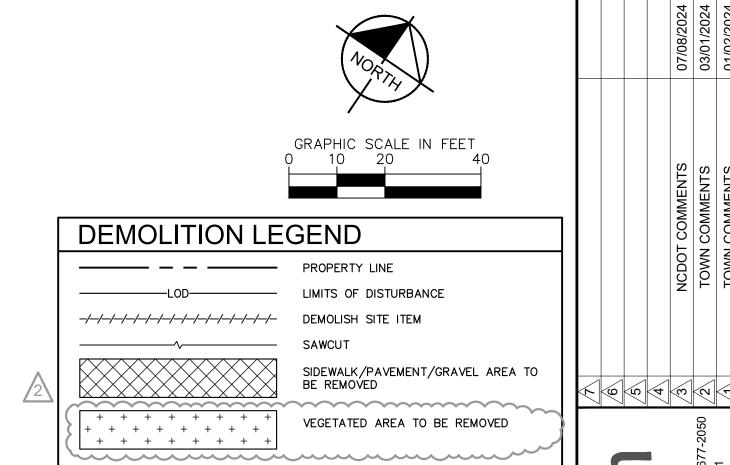
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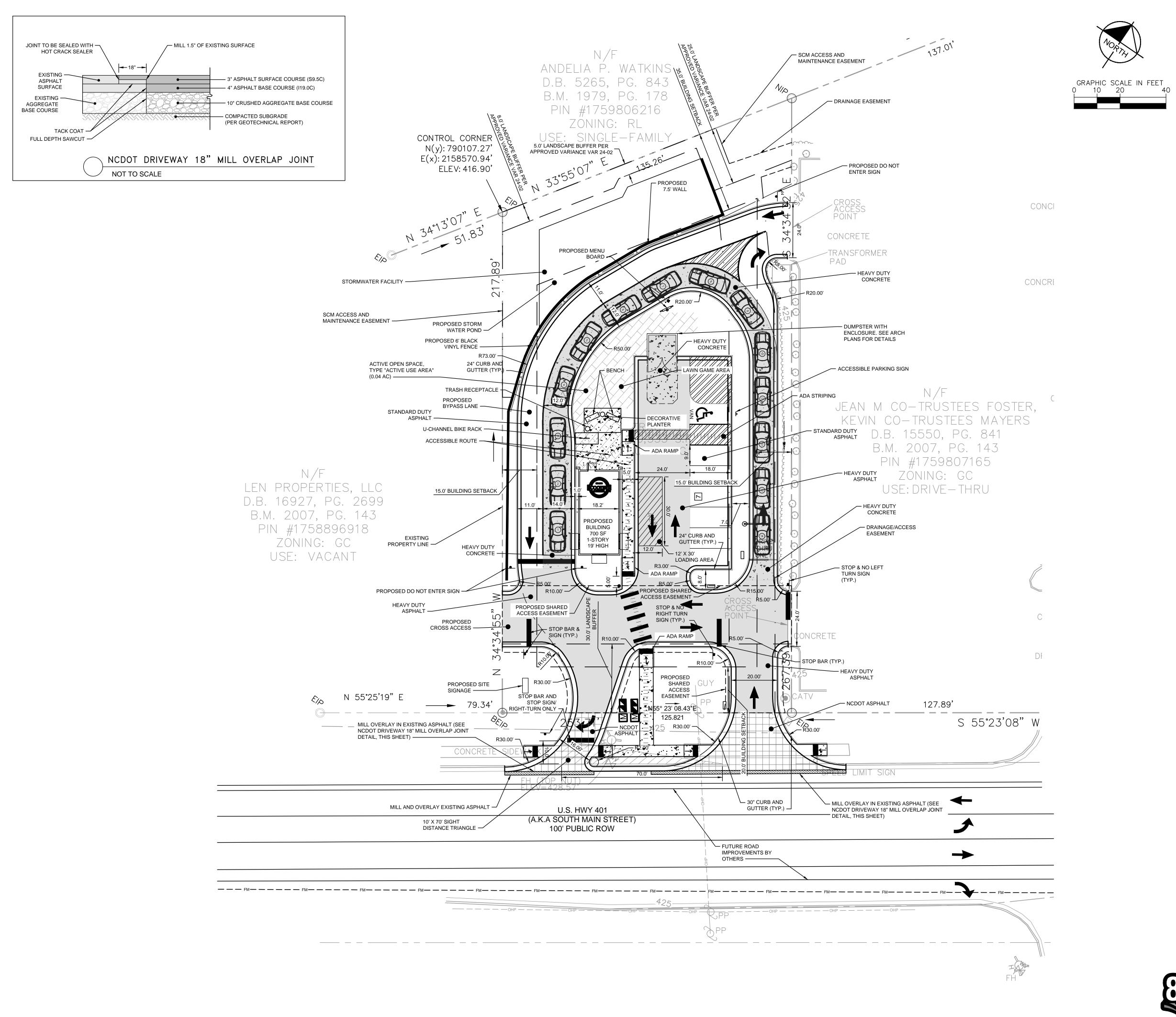


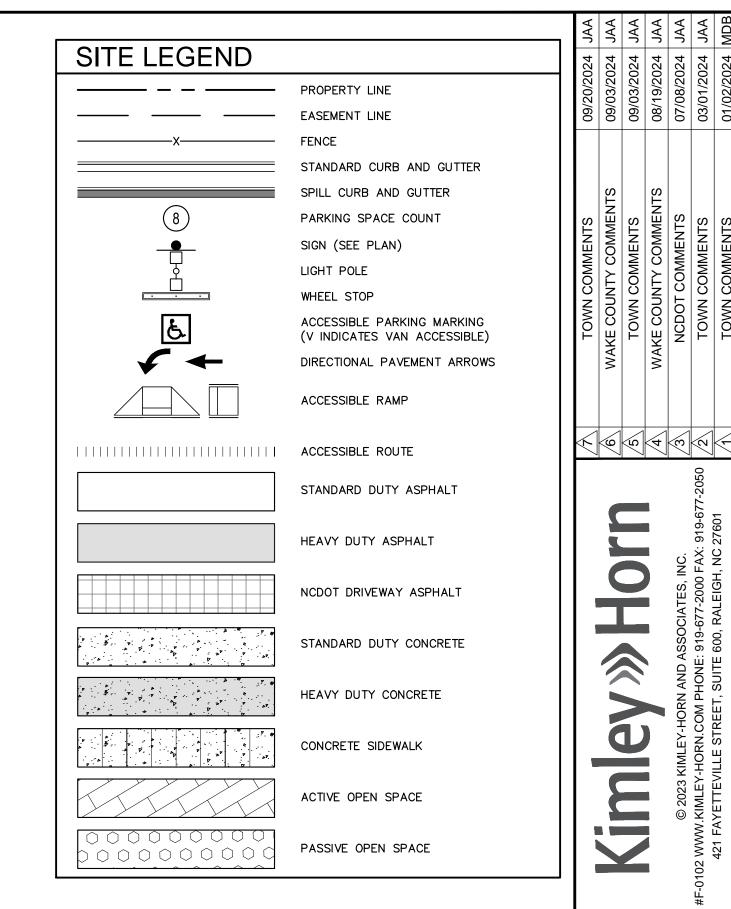
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POTENTIAL CONFLICTS TO OWNER AND ENGINEER.





PARKING:	MIN. REQUIRED: $(2.5 \text{ SPACES/1,000 SF})$ $\frac{\text{X 700 SF}}{\text{= 2.5 SPACES}}$
	MAX. ALLOWED: (10 SPACES/1,000 SF) $\frac{X 700 \text{ SF}}{= 7 \text{ SPACES}}$
	PROVIDED: 7 SPACES
ACCESSIBLE PARKING:	REQUIRED: 1 SPACE PROVIDED: 1 SPACE
LOADING SPACES:	REQUIRED: 1 SPACE PROVIDED: 1 SPACE
BICYCLE PARKING:	MIN. REQUIRED: $(1 \text{ SPACE/5,000 SF})$ $\frac{X}{7,000} \frac{5}{5}$ = 1 SPACES
	PROVIDED: 2 SPACES
OPEN SPACE:	TOTAL REQUIRED: 5% OF TOTAL SITE AREA 30,553 SF X 5% = 1,528 SF (0.04 AC)
	TOTAL PROVIDED: 1,553 SF (0.04 AC)
	ACTIVE OPEN SPACE REQUIRED: 50% OF REQUIRED TOTAL OPEN SPACE 1,528 SF X 50% = 764 SF (0.02 AC)
	ACTIVE OPEN SPACE PROVIDED: 1,553 SF (0.04 AC)
	PASSIVE OPEN SPACE REQUIRED: TOTAL OPEN SPACE REQUIRED - PROVIDED ACTIVE SPACE 1,528 SF - 1,553 SF = 0 SF (0.0 AC)
	PASSIVE OPEN SPACE PROVIDED: 0 SF (0.0 AC)

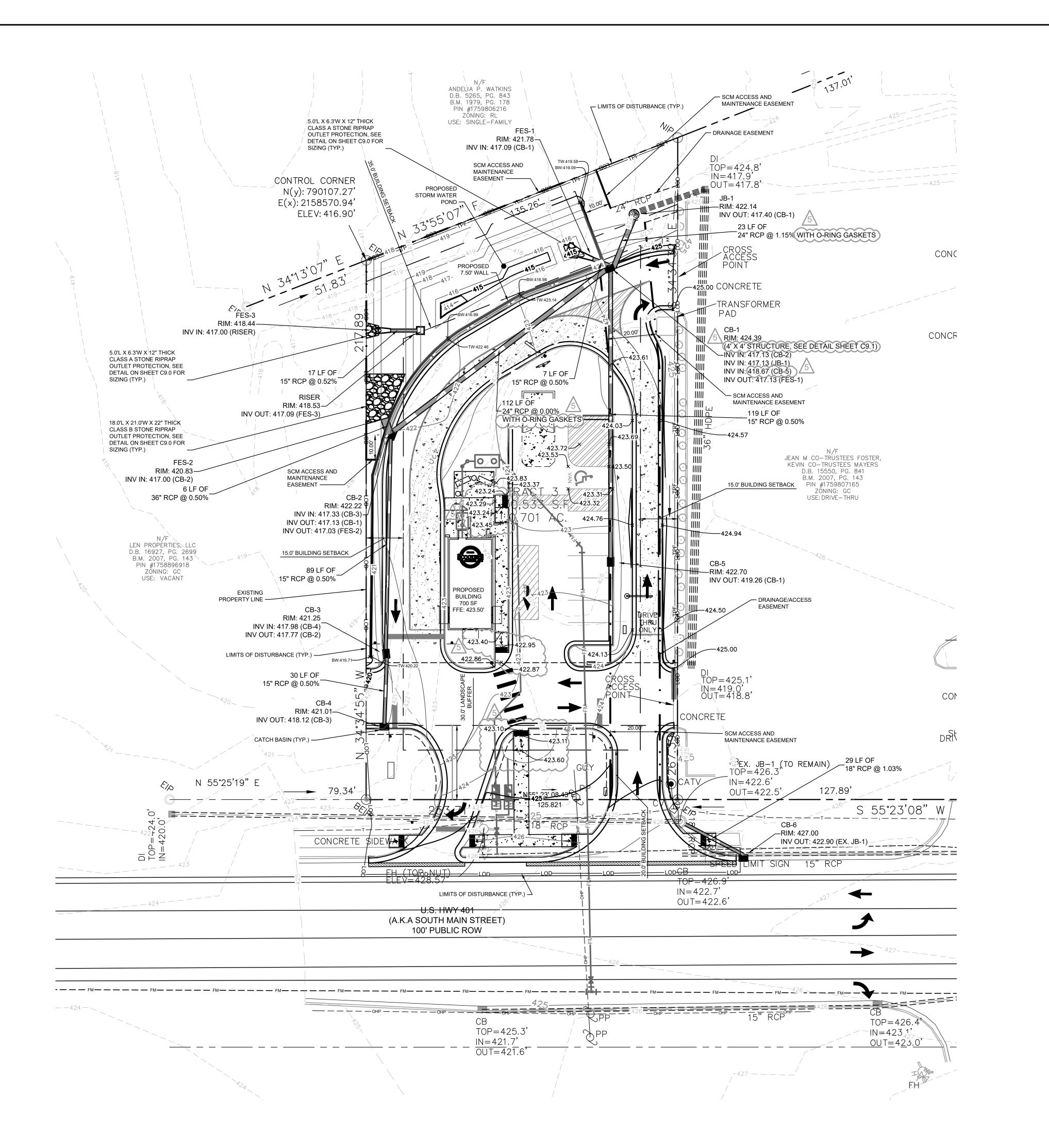
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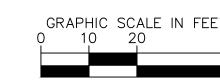
SCOOTER'S
ROLESVILLE

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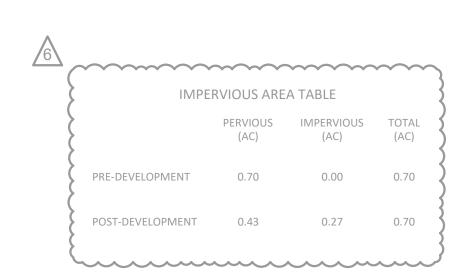
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GRADING AND D	RAINAGE LEGEND
	PROPERTY LINE
TCE	TEMPORARY CONSTRUCTION EASEMENT
	STORM DRAIN (≥ 12 INCH)
SD	STORM DRAIN (< 12 INCH)
RD	ROOF DRAIN
UD	UNDER DRAIN
	CURB AND GUTTER
	SPILL CURB AND GUTTER
CL	CLEARING LIMITS
	EXISTING CONTOUR
805	PROPOSED CONTOUR
· ·	SCM ACCESS AND MAINTENANCE EASEME
₹ 826.00	SPOT ELEVATION
	CATCH BASIN (CB)
SD	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
TW	TOP OF WALL (GRADE ELEV.)
BW	BOTTOM OF WALL (GRADE ELEV.)
TP	TOP OF PAVEMENT (GRADE ELEV.)
TC	TOP OF CURB (GRADE ELEV.)
TC/TP	FLUSH CURB (GRADE ELEV.)



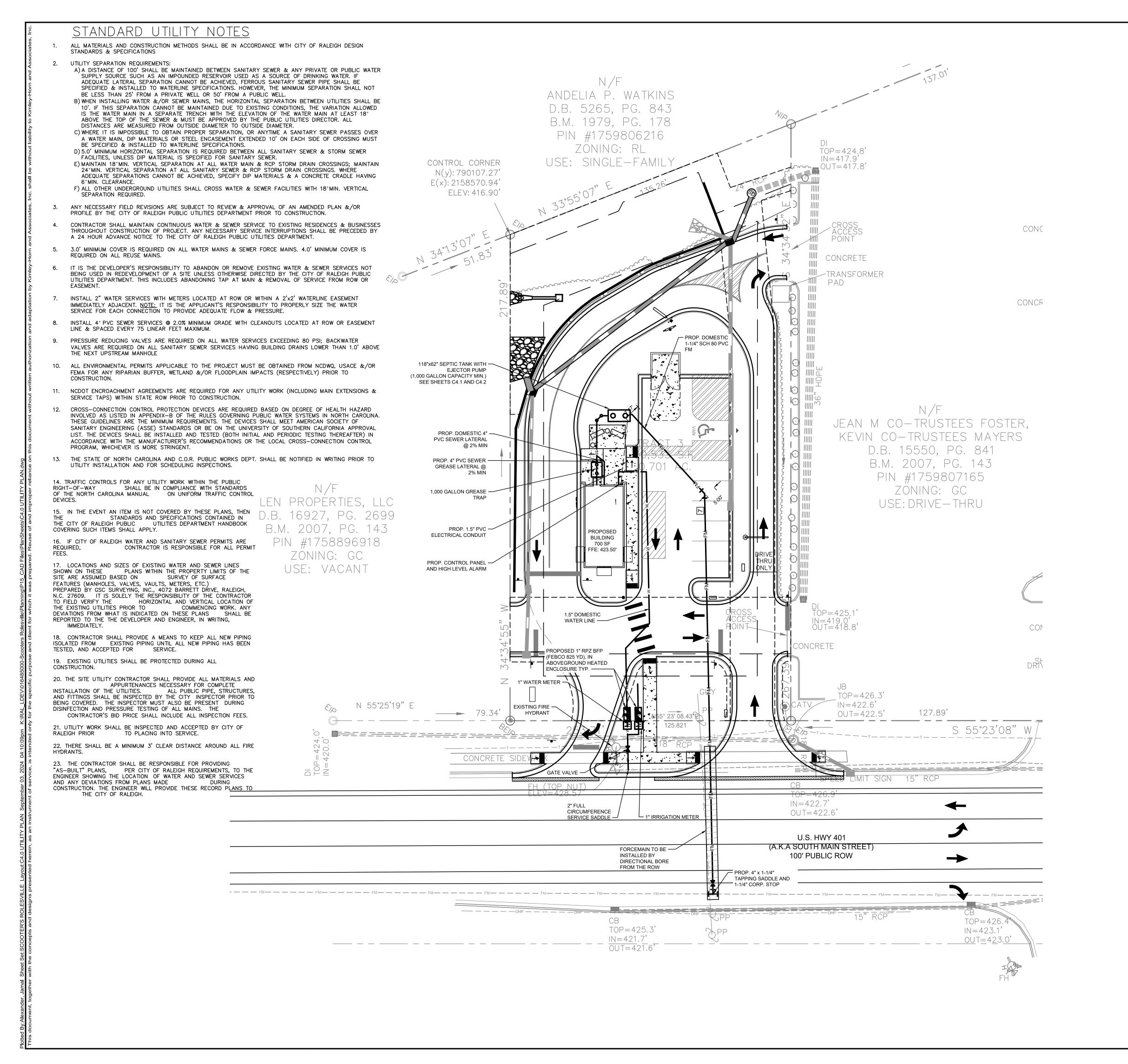
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POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

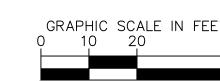
WATER TIGHT JOINTS (WT)

F @ @ 4 @ @ &

SHEET NUMBER C3.0







UTILITY LEGEND PROPERTY LINE WATER LINE ———— SANITARY SEWER LINE ELECTRIC FIBER OPTIC GAS POWER TELECOMMUNICATION CABLE LIGHT POLE WATER METER GATE VALVE POINT OF CONNECTION 5 5 BACKFLOW PREVENTOR 4 4 4 4 4 PIPE TEE/BENDS REDUCER FIRE HYDRANT (FH) $\langle \ \rangle$ FIRE DEPARTMENT CONNECTION (FDC) SANITARY SEWER CLEANOUT (SSCO) SANITARY SEWER MANHOLE (SSMH) SANITARY SEWER GREASE TRAP

F 6 6 4 6 6 6

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

SITE PERMITTING APPROVAL

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The

material and Construction methods used for this project shall conform to the standards and specifications of the City's Public

The City of Raleigh consents to the connection to its public sewer system and extension of the **private sewer collection**

system as shown on this plan. The material and constructions methods used for this project shall conform to the standards

Utilities Handbook. City of Raleigh Public Utilities Department Permit #

Utilities Handbook. City of Raleigh Public Utilities Department Permit # __

City of Raleigh Public Utilities Department Permit #

and specifications of the City's Public Utilities Handbook.

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

City of Raleigh Development Approval

Water and Sewer Permits (If applicable)

Raleigh Water Review Officer

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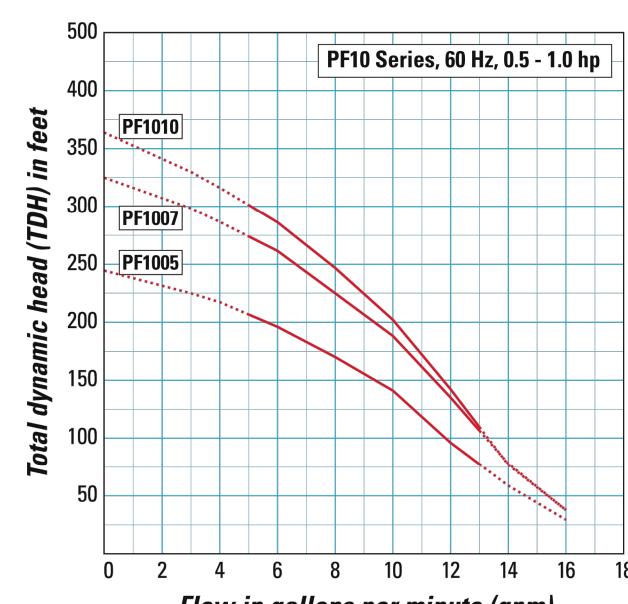


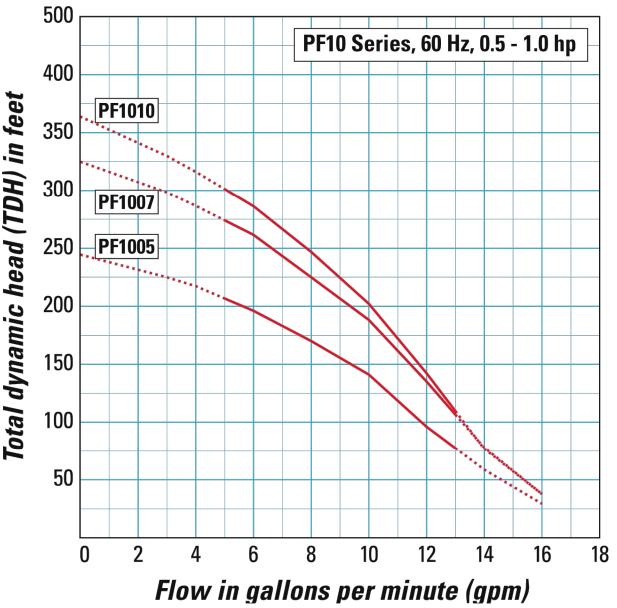
SHEET NUMBER C4.0

SDP-23-09

ONTROL	SEPTIC TANK GENERAL INFORMATION		
NS.	AVERAGE DAILY FLOW	306 GPD	
	TANK	1000 GAL ROTH TANK	
	TANK DIMENSIONS	118"x62"x52"	
	DISCHARGE PIPING	1.25"Ø SCH 80 PVC	
	CONTROL PANEL	ORENCO S1	
НО	HORSEPOWER	1 HP (NON-OVERLOADING OVER ENTIRE PUMP CURVE)	
	VOLTAGE/PHASE/CYCLES	240 V / 1 PHASE / 60 HZ	
	PUMP	ORENCO PF100511	
	PRIMARY LEVEL SENSING METHOD	FLOATS (3)	
	FLOAT SETTINGS	9", 12" (FROM TOP OF TANK)	
	FLOAT FUNCTIONS	HIGH LEVEL, ON/OFF	

Pump Curves





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SHEET NUMBER C4.1

S&S

MECHANICAL

SDP-23-09

MECHANICAL PLAN VIEW SCALE: NTS CONDUIT SEAL -(TO CONTROL PANEL) - SPLICE BOX (NEMA 4X) — HANGING DISCHARGE ASSEMBLY EFFLUENT DISCHARGE (1.25" SCH 80) - HIGH PRESSURE FLOAT SWITCH — FLEX HOSE LEVEL CONTROL FLOAT ASSEMBLY - BRASS CHECK VALVE — VAULT INLET PORTS 4" SCH 40 PVC — SUPPORTS - FILTER CARTRIDGE

SPLICE BOX (NEMA 4X)

┌─ 48" BIOTUBE PUMP VAULT - LEVEL CONTROL FLOAT ASSEMBLY

EFFLUENT DISCHARGE (1.25" SCH 80)

C4.1

ROTH 1000 GAL MODEL RMT-1000E

24" DIA. GASKETED -FIBERGLASS LID (TYP.)

C4.1

24" DIA. PVC RISER WITH 24" -GASKETED FIBERGLASS LID

SLOPE GRADE AWAY — FROM RISERS (TYP.)

24" DIA. FRTA24-RVF — PVC RISER ADAPTER

4" INLET WITH —

BOOTED OPENING

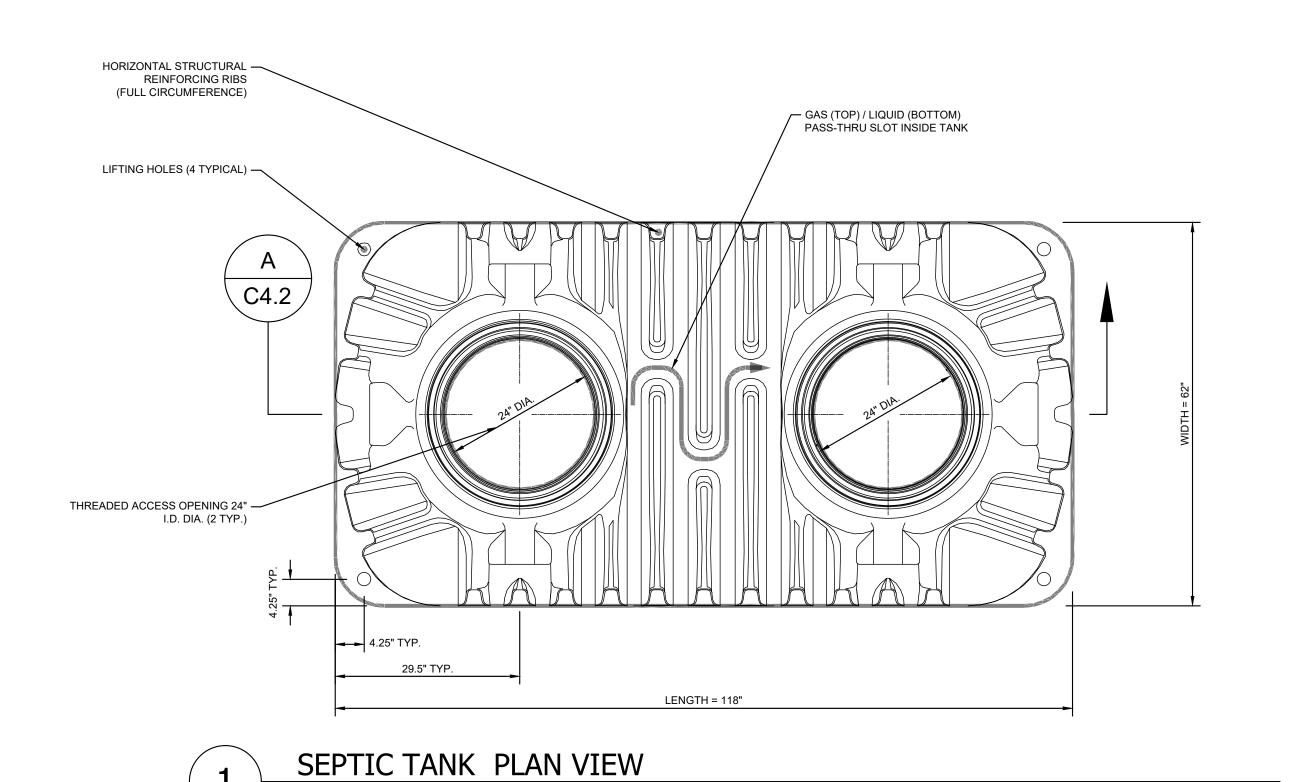
4" INLET WITH -**BOOTED OPENING**

MECHANICAL SECTION VIEW

— SANITARY TEE

SCALE: NTS

— 48" BIOTUBE PUMP



WIDTH = 62" INLET PORT — OUTLET PORT LENGTH = 118"

SEPTIC TANK ELEVATION VIEW

SCALE: NTS

THREADED ACCESS THREADED ACCESS OPENING OPENING 24" I.D. DIA. 24" I.D. DIA. INV IN INV OUT 40" LIQUID LEVEL PARTITION WALL — HORIZONTAL STRUCTURAL — REINFORCING RIBS (FULL CIRCUMFERENCE) 2/3 TANK LENGTH 1/3 TANK LENGTH

SEPTIC TANK SECTION VIEW

A C4.2

SCALE: NTS

SCALE: NTS

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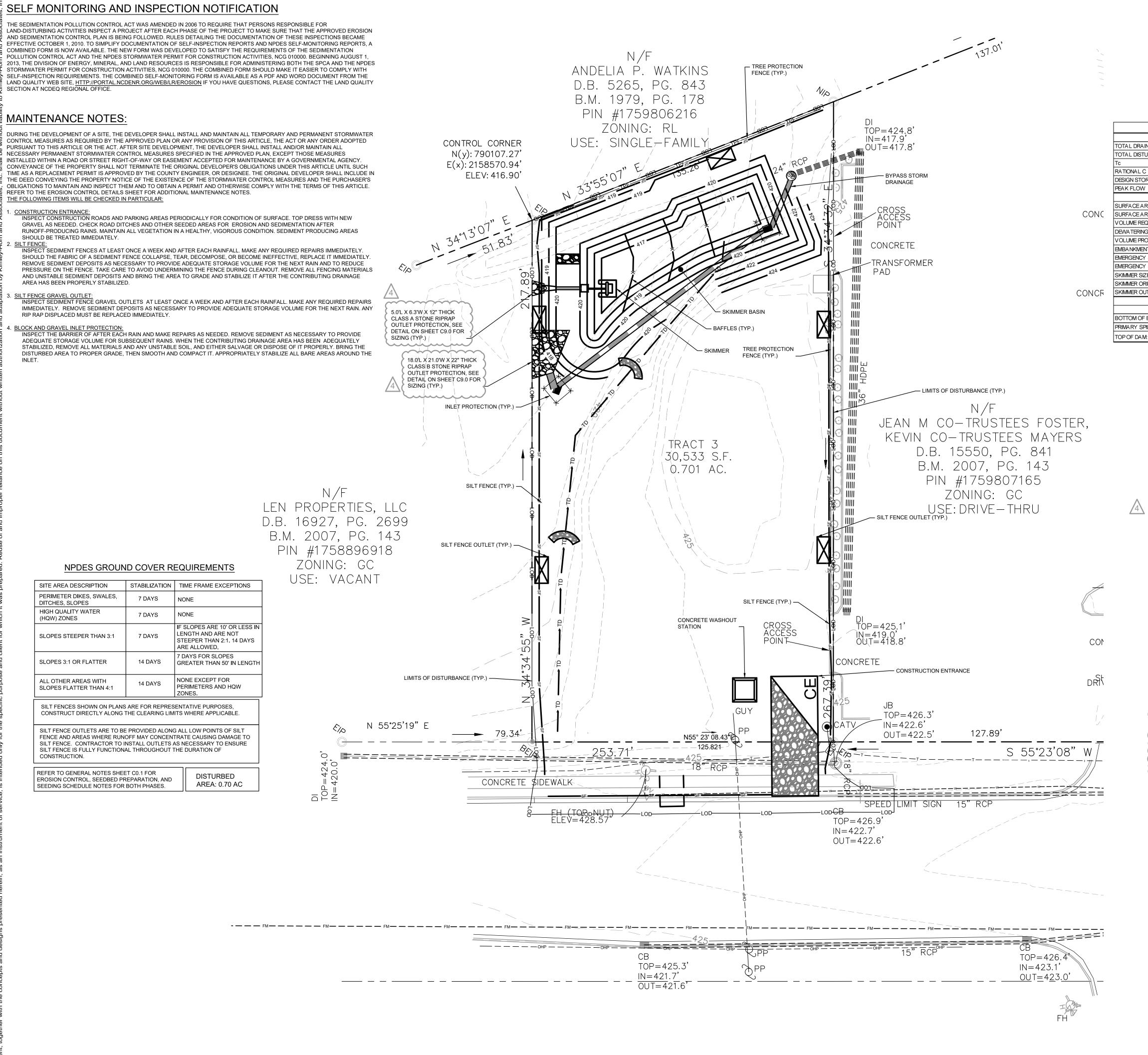


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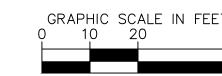
SDP-23-09

SEPTIC TANK DETAILS

SCOOTER'S
ROLESVILLE
PREPARED FOR
3 JAVA ENTERPRISES S&S







Skimmer Basin 1				
DESIGN INFORM A	TION			
TOTAL DRAINAGE AREA	0.70	AC		
TOTAL DISTURBED A REA	0.70	AC		
Тс	5	MIN		
RATIONAL C	0.35			
DESIGN STORM INTENSITY	8.06	INHR		
PEAK FLOW	1.97	CFS		
DESIGN CALCULA	TIONS			
SURFACE AREA REQUIRED	642	SF		
SURFACE A REA PROVIDED	2,277	SF		
VOLUME REQUIRED	1,260	CF		
DEWATERING TIME	3.48	DAYS		
VOLUME PROVIDED	3,285	CF		
EMBANKMENT WIDTH	10	FT		
EMERGENCY SPILLWAY LENGTH	4.0	FT		
EMERGENCY SPILLWAY CAPACITY	2.1	CFS		
SKIMMER SIZE	2.00	IN		
SKIMMER ORIFICE DIAMETER	1.00	IN		
SKIMMER OUTLET ELEVATION	417.00	FT		
BASIN GEOMETRY				
	AREA (SF)	ELEV (FT)		
BOTTOM OF BASIN:	1008	417.C		
PRIMARY SPILLWAY ELEVATION:	2277	419.C		
TOP OF DAM:	3412	420.5		

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

PHASE 1 CONSTRUCTION SEQUENCE

- 1. THE FOLLOWING PHASE 1 CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
- 2. SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH WAKE COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A LAND-DISTURBING PERMIT
- 3. INSTALL BYPASS STORM DRAINAGE PRIOR TO CLEARING ANY OTHER PORTION OF THE SITE. CLEAR ONLY AS NECESSARY TO INSTALL THE STORM DRAINAGE BYPASS PIPES, STRUCTURES, AND RIPRAP OUTLET.
- 4. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, AND RIRPRAP OUTLET, OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- 5. CALL ENVIRONMENTAL CONSULTANT FOR AN ON-SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN CERTIFICATE OF COMPLIANCE.
- 6. INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY SEVEN (7) CALENDAR DAYS.
- 7. SKIMMER BASIN SHALL BE CLEANED WHEN ONE-HALF FULL.
- 8. 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.
- 9. 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.
- 10. REFER TO SHEET CO.1 GENERAL NOTES FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE.

LIMITS OF DISTURBANCE: 0.70 AC

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.



F @ @ 4 @ @ 4

SHEET NUMBER C5.0

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 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, NCG 010000. 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 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.NCDENR.ORG/WEB/LR/EROSION IF YOU HAVE QUESTIONS, PLEASE CONTACT THE LAND QUALITY SECTION AT NCDEQ REGIONAL OFFICE.

MAINTENANCE NOTES:

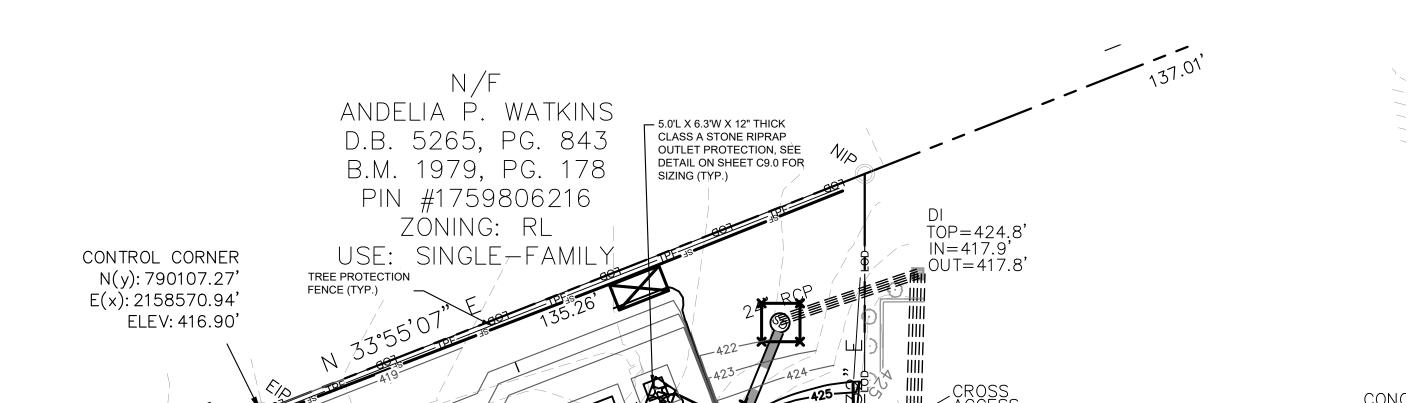
DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER 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:

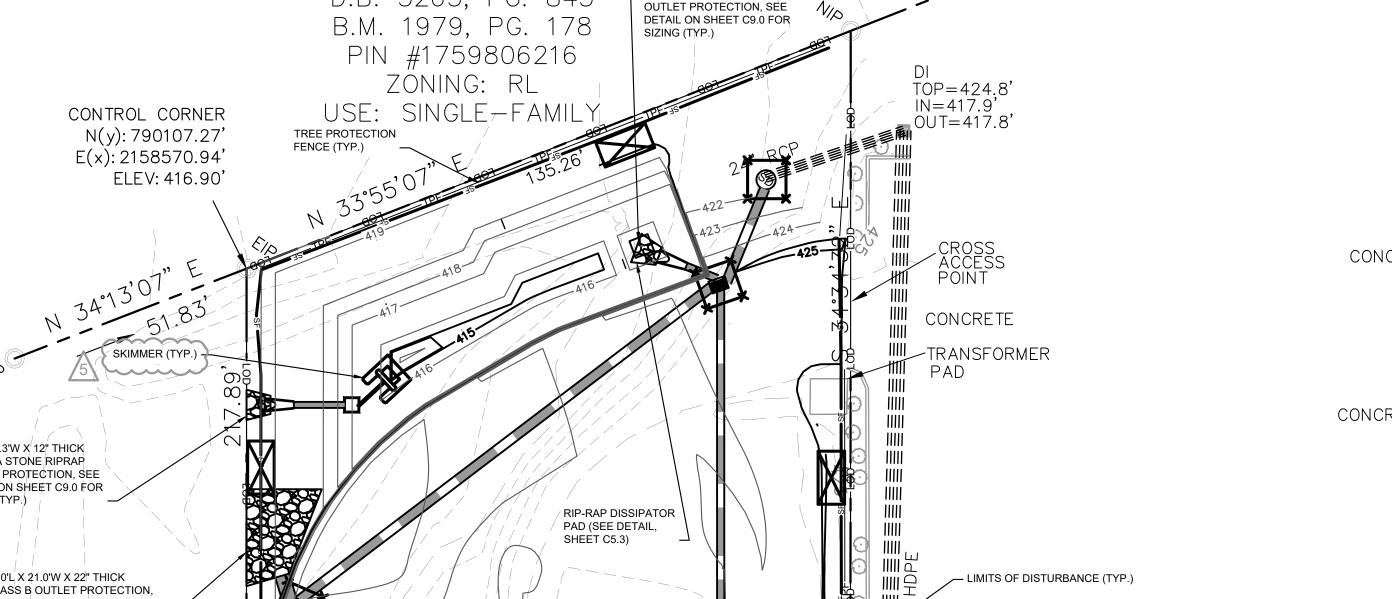
. <u>CONSTRUCTION ENTRANCE:</u> INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.

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.

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.

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





5.0'L X 6.3'W X 12" THICK CLASS A STONE RIPRAP OUTLET PROTECTION, SEE DETAIL ON SHEET C9.0 FOR 18.0'L X 21.0'W X 22" THICK CLASS B OUTLET PROTECTION, SEE DETAIL ON SHEET C9.0 FOR INLET PROTECTION (TYP.) — TRACT 3 D.B. 15550, PG. 841 30,533 S.F B.M. 2007, PG. 143 Q.701 AC. SILT FENCE (TYP.) — IIII INLET PROTECTION (TYP.) LEN PROPÉRTIES, LLC USE: DRIVE-THRU

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.

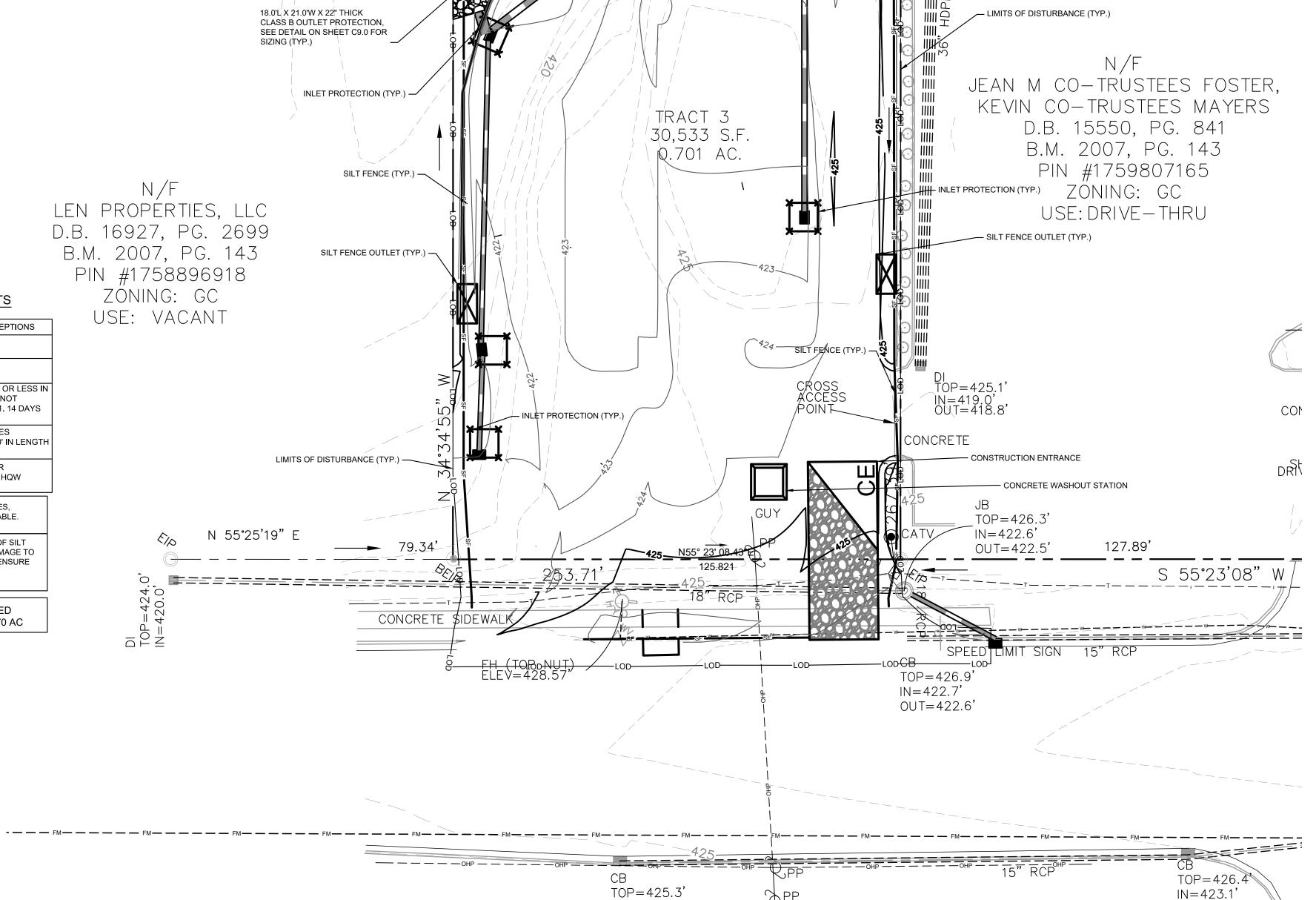
SILT FENCES SHOWN ON PLANS ARE FOR REPRESENTATIVE PURPOSES. CONSTRUCT DIRECTLY ALONG THE CLEARING LIMITS WHERE APPLICABLE.

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

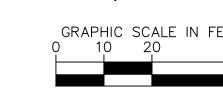
AREA: 0.70 AC

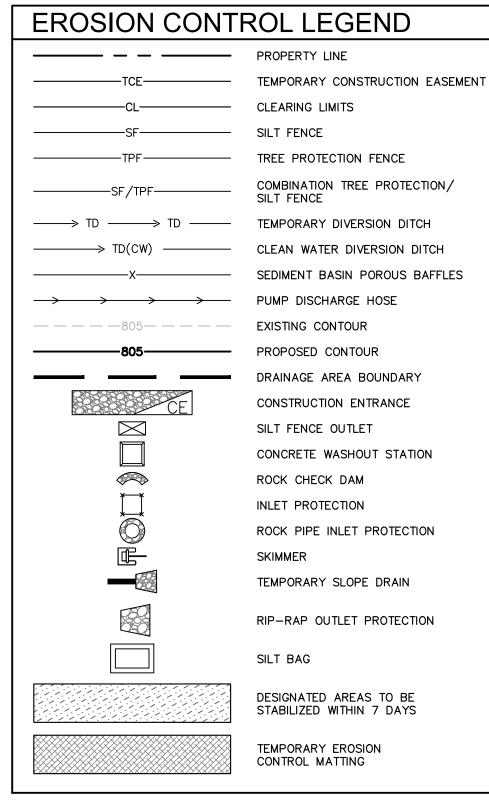


IN = 421.7'

 $\overline{OUT} = 421.6$







PHASE 2 CONSTRUCTION SEQUENCE

- 1. THE FOLLOWING PHASE 2 CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR
- 2. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. EROSION CONTROL MEASURES SHALL BE RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 50% OF DESIGN DEPTH. WHEN SEDIMENT BASIN DEWATERING IS REQUIRED, DEWATER USING PUMP AND FILTER BAG (SEE "STANDARD FILTER BAG FOR DEWATERING ACTIVITIES" DETAIL ON SHEET 5.4) PLACE PUMP ON BERM AND ATTACH FILTER BAG PER DETAIL CONSTRUCTION SPECIFICATIONS.
- 3. INSTALL STORM DRAINAGE AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN.
- 4. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME
- 5. 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.
- 6. INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY SEVEN (7) CALENDAR DAYS.
- 7. FOR ALL 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
- 8. 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.
- 9. REFER TO SHEET CO.1 GENERAL NOTES FOR GENERAL EROSION CONTROL NOTES AND

LIMITS OF DISTURBANCE: 0.70 AC

MAINTENANCE.

<u>OU</u>T=4<u>2</u>3.0'

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



SHEET NUMBER

SDP-23-09

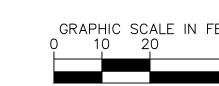
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IN = 421.7'

 $\overline{OUT} = 421.6$





EROSION CONTROL LEGEND — — — PROPERTY LINE TEMPORARY CONSTRUCTION EASEMENT CLEARING LIMITS TREE PROTECTION FENCE COMBINATION TREE PROTECTION/ \longrightarrow TD \longrightarrow TD \longrightarrow TEMPORARY DIVERSION DITCH CLEAN WATER DIVERSION DITCH SEDIMENT BASIN POROUS BAFFLES >>>> PUMP DISCHARGE HOSE EXISTING CONTOUR PROPOSED CONTOUR DRAINAGE AREA BOUNDARY CONSTRUCTION ENTRANCE \geq SILT FENCE OUTLET CONCRETE WASHOUT STATION ROCK CHECK DAM INLET PROTECTION ROCK PIPE INLET PROTECTION TEMPORARY SLOPE DRAIN RIP-RAP OUTLET PROTECTION SILT BAG DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS TEMPORARY EROSION CONTROL MATTING

PHASE 3 CONSTRUCTION SEQUENCE:

CONCF

CON

S 55°23'08"

TOP=426.4

1N = 423.1'

<u>OU</u>T=423.0'

- 1. THE FOLLOWING PHASE 3 CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
- 2. MAINTAIN CONSTRUCTION ENTRANCE AND SILT FENCE.
- 3. CONTRACTOR IS TO CUT AND/OR FILL AREAS TO BRING THE SITE TO THE PROPOSED GRADES SHOWN ON THE GRADING AND DRAINAGE PLANS. STABILIZE SITE AS AREAS ARE BROUGHT UP TO PROPOSED GRADES WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDE AREAS PER GROUND STABILIZATION TIME FRAMES.
- 4. GRADING ACTIVITY SHALL BE LIMITED TO WITHIN THE CLEARING LIMITS. MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY.
- 5. 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.
- 6. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL
- ENVIRONMENTAL CONSULTANT FOR AN INSPECTION. 7. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC.,

AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT

- EROSION CONTROL DEVICES SHOULD NOW BE INSTALLED. 8. WHEN VEGETATION HAS BECOME ESTABLISHED. CALL FOR A FINAL INSPECTION BY WAKE
- COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.
- 9. CONTACT ENVIRONMENTAL CONSULTANT FOR APPROVAL TO CONVERT SEDIMENT BASIN TO A 10. SEDIMENT BASIN IS NOT TO BE REMOVED UNTIL THE SITE IS STABILIZED. UPON STABILIZATION OF UPSTREAM AREA AND APPROVAL FROM ENVIRONMENTAL CONSULTANT, CONVERT SEDIMENT
- BASIN TO WET POND, SHOWN ON C6.0. REMOVE BAFFLES AND SKIMMER. 11. ALL SEDIMENT SHALL REMAIN OUT OF PERMANENT BMP ONCE CONVERTED. SEDIMENT THAT ENTERS BMP SHALL BE REMOVED IMMEDIATELY, AND THE BMP INSPECTED TO ENSURE
- 12. INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY SEVEN (7) CALENDAR DAYS.
- 13. 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 CITY OF GREENVILLE EROSION CONTROL ORDINANCE.
- 14. REFER TO SHEET CO.1 GENERAL NOTES FOR GENERAL EROSION CONTROL NOTES AND

LIMITS OF DISTURBANCE: 0.70 AC

COMPLIANCE HAS BEEN MAINTAINED.

SURVEY NOTE:
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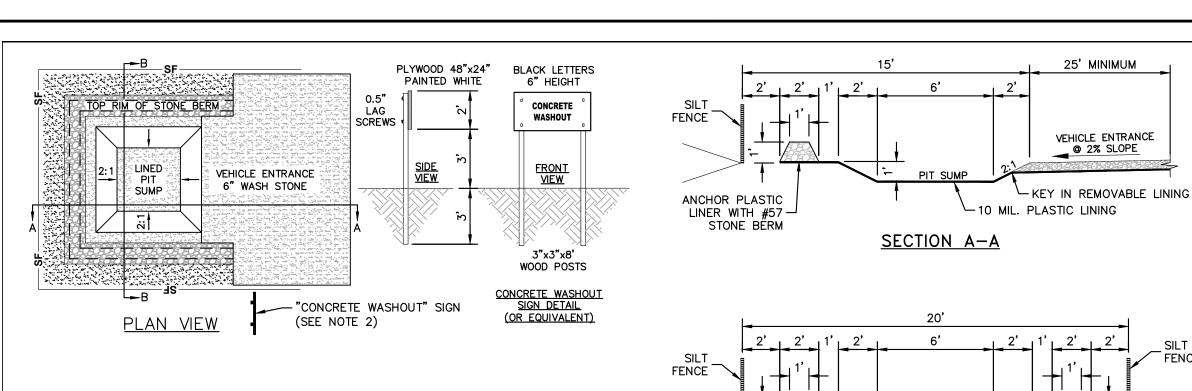


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SHEET NUMBER

SDP-23-09





DATE	TYPE	PLANTING RATE	REGION
JAN. 1 - MAY 1	RYE (GRAIN)	120 LBS/ACRE	PIEDMONT
JAN. 1 - MAY 1	ANNUAL LESPEDEZA (KOBE)	50 LBS/ACRE	PIEDMONT
MAY 1 - AUG. 15	GERMAN MILLET	40 LBS/ACRE	PIEDMONT
MAY 1 - AUG. 15	SMALL-STEMMED SUDANGRASS	50 LBS/ACRE	PIEDMONT
AUG. 15 - DEC. 30	RYE (GRAIN)	120 LBS/ACRE	PIEDMONT
DEC. 1 - APR. 15	RYE (GRAIN)	120 LBS/ACRE	COASTAL PLAIN
DEC. 1 - APR. 15	ANNUAL LESPEDEZA (KOBE)	50 LBS/ACRE	COASTAL PLAIN
APR. 15 - AUG. 15	GERMAN MILLET	40 LBS/ACRE	COASTAL PLAIN
AUG. 15 - DEC. 30	RYE (GRAIN)	120 LBS/ACRE	COASTAL PLAIN
FEB. 15 - MAY 15	RYE (GRAIN)	120 LBS/ACRE	MOUNTAINS - ABOVE 2500 FEET
FEB. 1 - MAY 1	RYE (GRAIN)	120 LBS/ACRE	MOUNTAINS - BELOW 2500 FEET
FEB. 15 - MAY 15	ANNUAL LESPEDEZA (KOREAN)	50 LBS/ACRE	MOUNTAINS - ABOVE 2500 FEET
FEB. 1 - MAY 1	ANNUAL LESPEDEZA (KOREAN)	50 LBS/ACRE	MOUNTAINS - BELOW 2500 FEET
MAY 15 - AUG. 15	GERMAN MILLET	40 LBS/ACRE	MOUNTAINS
MAY 15 - AUG. 15	SMALL-STEMMED SUDANGRASS	50 LBS/ACRE	MOUNTAINS
AUG. 15 - DEC. 15	RYE (GRAIN)	120 LBS/ACRE	MOUNTAINS

TEMPORARY SEEDING SCHEDULE AND SEEDBED PREPARATION

EEDBED PREPARATION: TILL OR DISK THE PREPARED AREAS TO BE SEEDED TO A MINIMUM DEPTH OF FOUR 6. COMPLETE GRADING BEFORE PREPARING SEEDBEDS, AND INSTALL ALL NECESSARY EROSION CONTROL PRACTICES SUCH AS, DIKES, WATERWAYS, AND BASINS. 2. REMOVE STONES LARGER THAN THREE INCHES ON ANY SIDE, STICKS, ROOTS AND OTHER

7. IF SOILS BECOME COMPACTED DURING GRADING, LOOSEN THEM TO A DEPTH OF 6-8

INCHES USING A RIPPER, HARROW, OR CHISEL PLOW. 8. THE USE OF AN APPROPRIATE MULCH WILL HELP ENSURE ESTABLISHMENT UNDER NORMAL CONDITIONS, AND IS ESSENTIAL TO SEEDING SUCCESS UNDER HARSH SITE CONDITIONS.

SOIL AMENDMENTS:

LATE WINTER THROUGH SUMMER: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

FALL: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1000 LB/ACRE 10-10-10 FERTILIZER.

APPLY 4000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. AS A MULCH ANCHORING TOOL. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS;

LATE WINTER THROUGH SUMMER: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE. GREATER THAN 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. FALL: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER

BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

KHA DETAIL NO: 01.104.R0

CONCRETE WASHOUT STATION N.T.S.

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.

REMOVED FROM THE SITE AND DISPOSED OF OR RECYCLED.

CONCRETE WASHOUT FACILITY.

STABILIZED TO PREVENT EROSION.

2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY

3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE

TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND

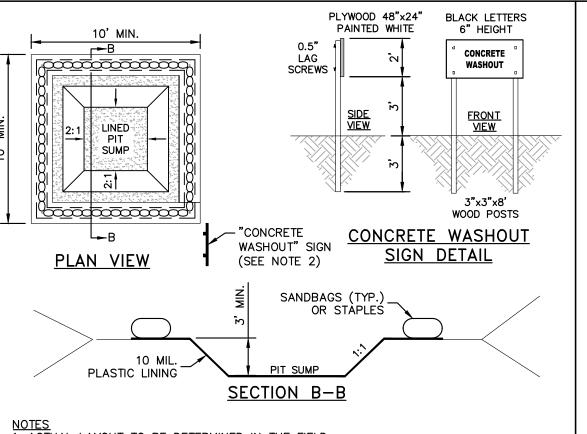
5. PIT CAPACITY IS MINIMUM OF 6 CUBIC FEET PER 10 CUBIC YARDS OF CONCRETE.

4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE

KHA DETAIL NO: 01.102.R01

SECTION B-B

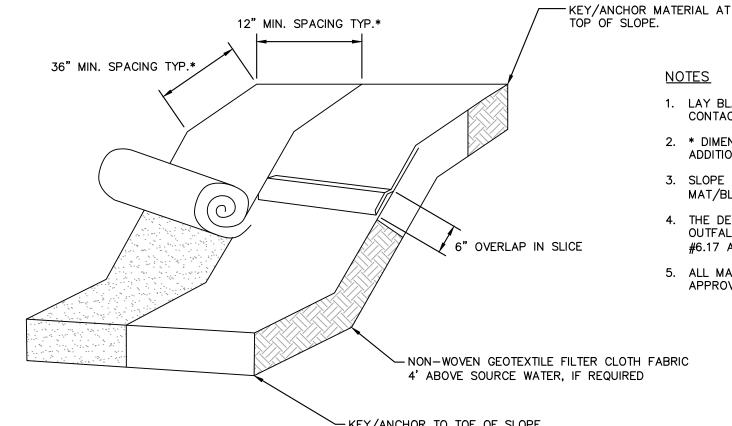
STONE BERM



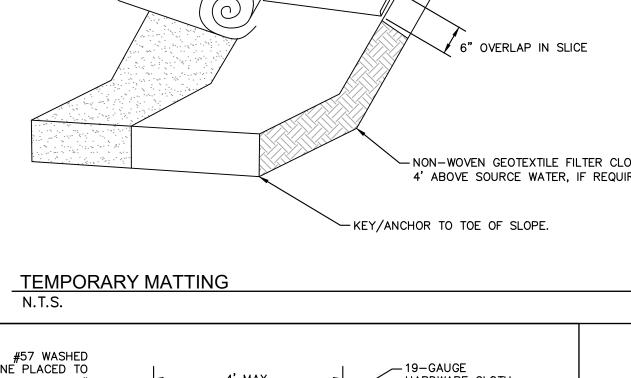
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD. 2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY

- CONCRETE WASHOUT FACILITY. 3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED OF OR RECYCLED. 4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE
- TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION 5. PIT CAPACITY IS MINIMUM OF 6 CUBIC FEET PER 10 CUBIC YARDS OF CONCRETE.

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



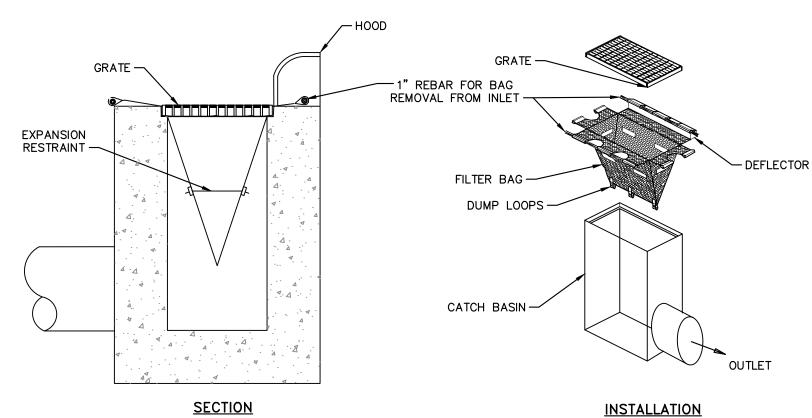
TEMPORARY MATTING



1. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH. 2. * DIMENSIONS SHOWN ARE MINIMUM, MANUFACTURED PRODUCTS MAY HAVE ADDITIONAL REQUIREMENTS THAT MUST BE MET. 3. SLOPE SURFACE SHALL BE FREE OF ROCKS, SOIL CLODS, STICKS, GRASS. MAT/BLANKETS SHALL HAVE GOOD SOIL CONTACT. 4. THE DETAIL SHOWN IS FOR SLOPE MATTING. FOR CHANNEL OR PIPE OUTFALL MATTING SPECIFICATIONS, PLEASE REFER TO NCESCPDM STANDARD #6.17 AND MANUFACTURER'S GUIDELINES. 5. ALL MATTING TO BE ERONET™ S150® EROSION CONTROL BLANKET OR APPROVED EQUIVALENT.

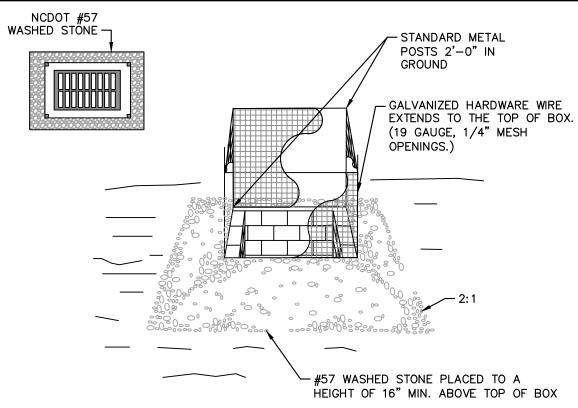
KHA DETAIL NO: 01.105.R0

6. FILTER BAGS SHALL NOT BE ALLOWED IN EXISTING CITY OR NCDOT ROADS.



CATCH BASIN INLET PROTECTION

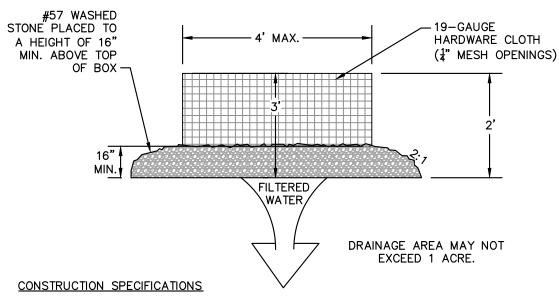
KHA DETAIL NO: 01.201.R0



MAINTENANCE

INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

CATCH BASIN AND YARD INLET PROTECTION N.T.S.



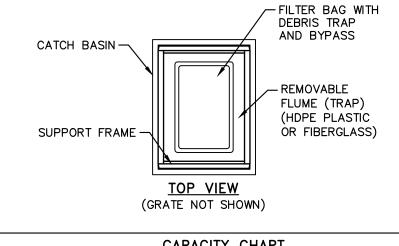
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.

10 MIL. PLASTIC LINING

- 2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
- 4. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
- 5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED
- 6. COMPACT THE AREA PROPERLY AND STABILIZE IT WITH GROUNDCOVER.

SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.

KHA DETAIL NO: 01.202.R0



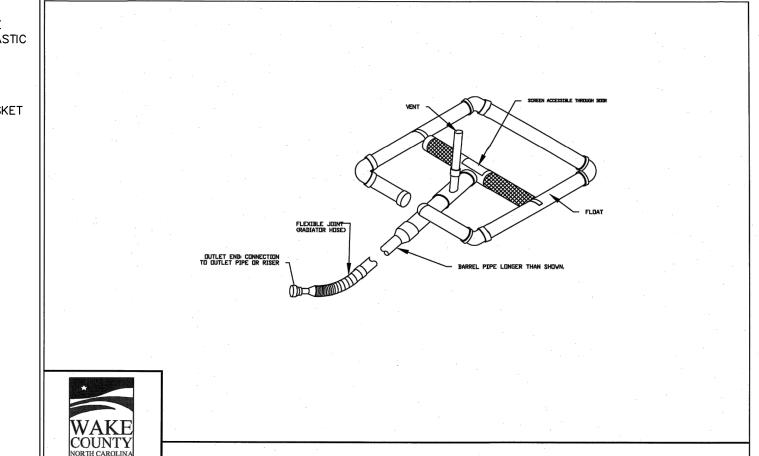
	CAPACITY CHART					
MODE	L NO.	INLET SIZE	LINER DEPTH	STORAGE CAPACITY*	CLEAN FLOW RATE**	
FF-24	424HC	24" X 24"	12"	1.67 CU. FT.	470 GPM	
"	"	24" X 24"	24"	4.18 CU. FT.	914 GPM	
"	"	24" X 24"	36"	6.69 CU. FT.	1,357 GPM	
FF-24	436HC	24" X 36"	12"	2.55 CU. FT.	641 GPM	
"	"	24" X 36"	24"	6.38 CU. FT.	1,201 GPM	
,,	"	24" X 36"	36"	10.20 CU. FT.	1,761 GPM	
FF-363	6HC-GO	36" X 36"	12"	3.36 CU. FT.	772 GPM	
"	"	36" X 36"	24"	8.39 CU. FT.	1,402 GPM	
"	"	36" X 36"	36"	13.43 CU. FT.	2,032 GPM	
1	+ OTOPAGE CARACITY DESIGNED ANAMANA COLUMN COLUMN DESIGNED TO MARENA DATA					

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

CATCH BASIN-2" MIN. -FILTER LINER -SIDE VIEW FIT MOST INDUSTRY-STANDARD CATCH BASINS (SEE (FLUME) SHALL BE CONSTRUCTED FROM EITHER PETROLEUM RESISTANT FIBERGLASS OR HDPE PLASTIC.

OF 12", 24" OR 36" (REFER TO CAPACITY CHART). CUSTOM LINER DEPTH'S MAY BE SPECIFIED. MAINTENANCE SPECIFICATIONS INSPECT THE PROTECTION INSERT AND REMOVE ALL

PROTECTION INSERT BY LIFTING THE UNIT OUT OF THE INLET AND REPLACING.



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.

CATCH BASIN SILT PROTECTION INSERT N.T.S.



SDP-23-09

EXTRANEOUS MATERIALS THAT SURFACE. 3. IF NOT INCORPORATED DURING THE SOIL PREPARATION PROCESS, ADD pH MODIFIER AND FERTILIZERS AT THE RATE SPECIFIED IN THE SOIL TEST REPORT. IF THERE IS NO SOIL 4. RE-COMPACT THE AREA UTILIZING A CULTIPACKER ROLLER. THE FINISHED GRADE SHALL BE A SMOOTH EVEN SOIL SURFACE WITH A LOOSE, UNIFORMLY FINE TEXTURE. 5. EVENLY APPLY SEED USING A CYCLONE SEEDER (BROADCAST), DRILL, CULTIPACKER DEEP, AND GRASSES AND LEGUMES NO MORE THAN 1 INCH. BROADCAST SEED MUST BE OR CULTIPACKER. HYDROSEEDED MIXTURES SHOULD INCLUDE A WOOD FIBER (CELLULOSE) MULCH. <u>OTES:</u> CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL 2. THIS SEEDING SCHEDULE IS FOR EROSION AND SEDIMENT CONTROL ONLY. SEE ANCHOR PLASTIC 3. THE CONTRACTOR SHALL PROVIDE GROUND COVER ON DESIGNATED AREAS AND SLOPES -LINER WITH #57

- REMOVABLE FLUME

TEST REPORT, FOLLOW SOIL AMENDMENTS BELOW.

OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

FOLLOWING COMPLETION OF ANY PHASE OF GRADING.

LANDSCAPE PLAN FOR FINAL SEEDING.

COMPLETION OF CONSTRUCTION.

1. INLET MAINTENANCE SHALL BE

TO STREET ACCEPTANCE.

INSTALLATION.

THE ENGINEER.

DOCUMENTED IN PROJECT LOG BOOK.

2. FILTER TYPES SHALL BE APPROVED BY

3. FILTER BAGS MAY BE REMOVED WHEN

4. FILTER BAGS SHALL BE REMOVED PRIOR

REPLACED ON A REGULAR BASIS (NOT BE MORE THAN HALF FULL AT ANY

5. FILTER BAGS SHALL BE CLEANED OR

SITE IS STABILIZED AT THE DIRECTION OF

THE CITY INSPECTOR PRIOR TO

SEEDER, OR HYDROSEEDER. SMALL GRAINS SHOULD BE PLANTED NO MORE THAN 1 INCH

COVERED BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY FIRMED WITH A ROLLER

4. CONTRACTOR SHALL PROVIDE GROUND COVER IN 14 DAYS ON ALL OTHER AREAS

WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING

5. PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED WITHIN 15

(TRAP) (HDPE PLASTIC SUPPORT FRAME -OR FIBERGLASS) (4 SIDED) FILTER LINER SUPPORT BASKET (SEE NOTE 3) 3" MIN. 4" MIN. (SEE NOTE 4)

1. CATCH BASIN INSERTS ARE AVAILABLE IN SIZES TO

CAPACITY CHART). CUSTOM SIZES ARE AVAILABLE. 2. FILTER SUPPORT FLANGES SHALL BE CONSTRUCTED FROM STAINLESS STEEL (TYPE 304) DEBRIS TRAP

3. FILTER LINER SUPPORT BASKET SHALL BE CONSTRUCTED FROM A BIAXIAL GEOGRID WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 900 X 1400,

AS TESTED IN ACCORDANCE WITH ASTM D-4595. 4. INSERT LINERS ARE AVAILABLE IN STANDARD DEPTHS

ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. IF THE CONTAINMENT IS MORE THAN 1/3 FULL OF SEDIMENT, EMPTY THE

EFFECTIVE: 01/31/0

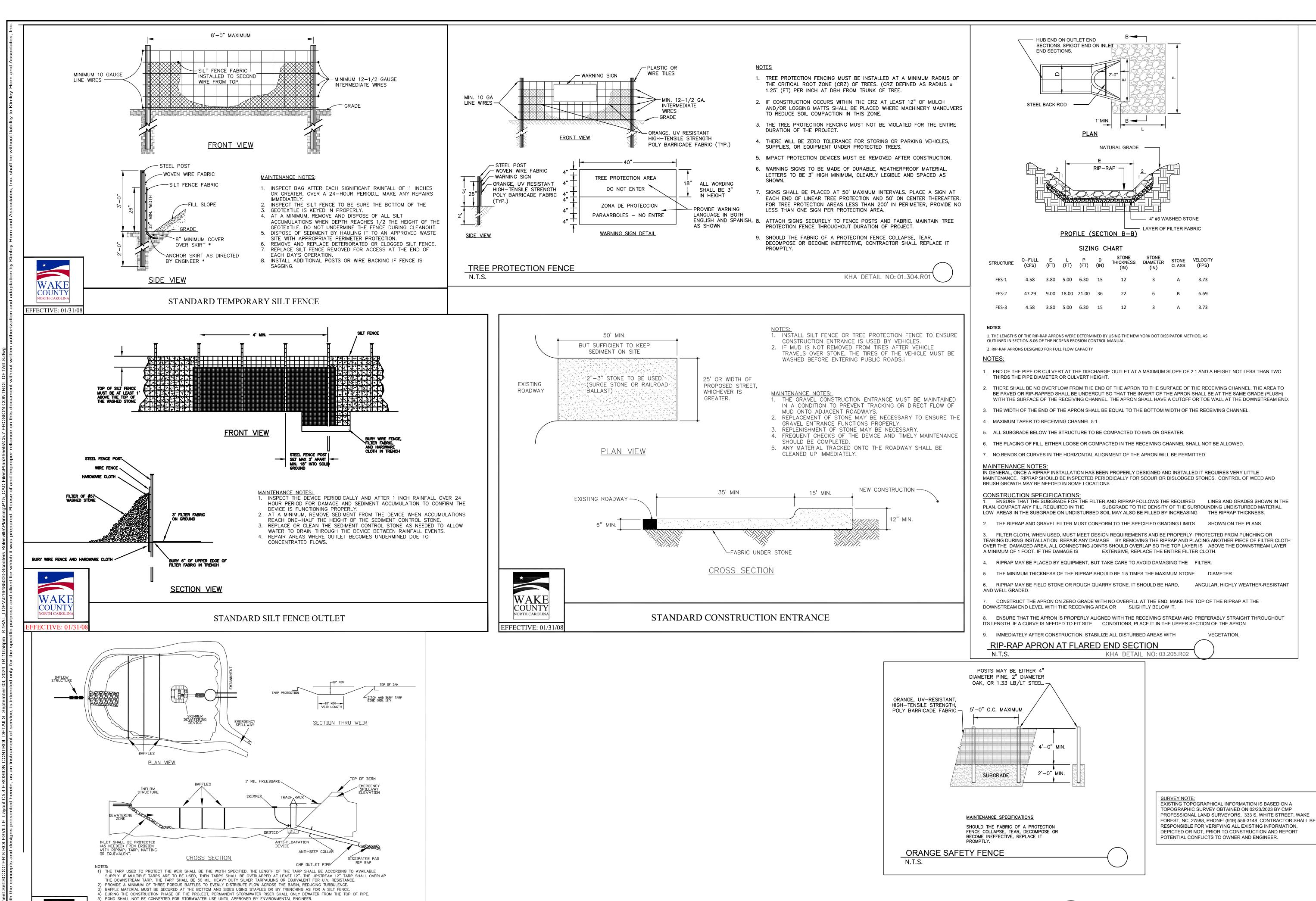
STANDARD SKIMMER DETAIL

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SHEET NUMBER



INSPECT THE BASIN AND RISER ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER).

BASIN SHOULD BE CLEANED OUT WHEN CAPACITY REACHES AN ELEVATION REPRESENTING THAT THE BASIN IS HALF-FULL.

STANDARD SKIMMER ATTACHED TO PERMANENT RISER

) MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.

COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/

Know what's below.
Call before you dig.

SDP-23-09

SHEET NUMBER C5.4

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Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet

may not apply depending on site conditions and the delegated authority having jurisdiction.

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

ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

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

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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the

- 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. 2. Provide a sufficient number and size of waste containers (e.g dumpster, trash
- receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds.

Cover waste containers at the end of each workday and before storm events or

- . Empty waste containers as needed to prevent overflow. Clean up immediately if
- containers overflow.

8. Dispose waste off-site at an approved disposal facility. 9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTI Do not dump paint and other liquid waste into storm drains, streams or wetlands.

- 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available. Contain liquid wastes in a controlled area.
- 1. Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

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

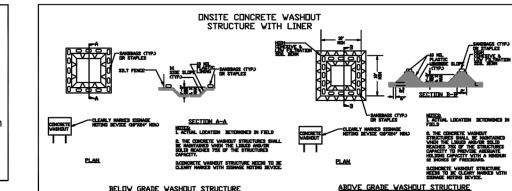
EARTHEN STOCKPILE MANAGEMENT

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

erosion on disturbed soils for temporary or permanent control needs.



as vegetative, physical or chemical coverage techniques that will restrain accelerated



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- 2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in
- addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence. 4. Install temporary concrete washouts per local requirements, where applicable. If an
- alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail. Do not use concrete washouts for dewatering or storing defective curb or sidewalk
- sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum.
- install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone
- entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location. Remove leavings from the washout when at approximately 75% capacity to limit
- overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- 10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment. 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

| EFFECTIVE: 04/01/19

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record

SELF-INSPECTION, RECORDKEEPING AND REPORTING

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: Actions taken to clean up or stabilize the sediment that has left the site limits, Description, evidence, and date of corrective actions taken, and and a control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING 1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make

- this requirement not practical: (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

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

SELF-INSPECTION, RECORDKEEPING AND REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences: (a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:

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

2. Reporting Timeframes and Other Requirements

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

Reporting Timeframes (After Discovery) and Other Requirements Occurrence (a) Visible sediment deposition in a stream or wetland

(b) Oil spills and

substances per Item

(d) Unanticipated

bypasses [40 CFR

(e) Noncompliance

122.41(m)(3)]

health or the

environment[40

CFR 122.41(I)(7)]

release of

hazardous

- Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition.
- Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sedimentrelated causes, the permittee may be required to perform additional
 - monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and
- 1(b)-(c) above A report at least ten days before the date of the bypass, if possible. (c) Anticipated bypasses [40 CFR The report shall include an evaluation of the anticipated quality and 122.41(m)(3)] effect of the bypass.

location of the spill or release.

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

NORTH CAROLINA

EFFECTIVE: 04/01/19

Environmental Quality

prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6). Division staff may waive the requirement for a written report on a

Within 24 hours, an oral or electronic notification

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SHEET NUMBER SDP-23-09

SURVEY NOTE: EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A

TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CMP

RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION,

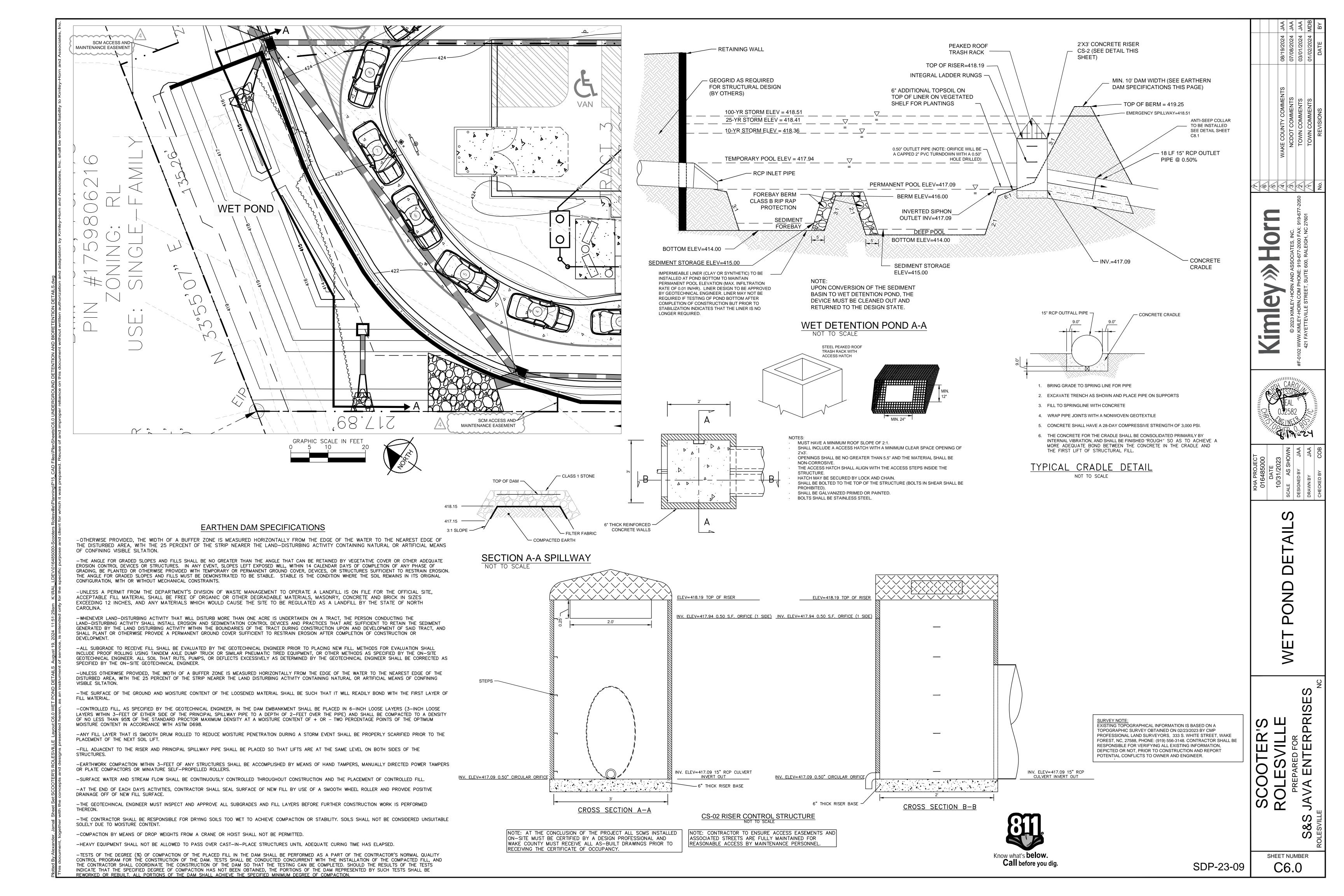
DEPICTED OR NOT. PRIOR TO CONSTRUCTION AND REPORT

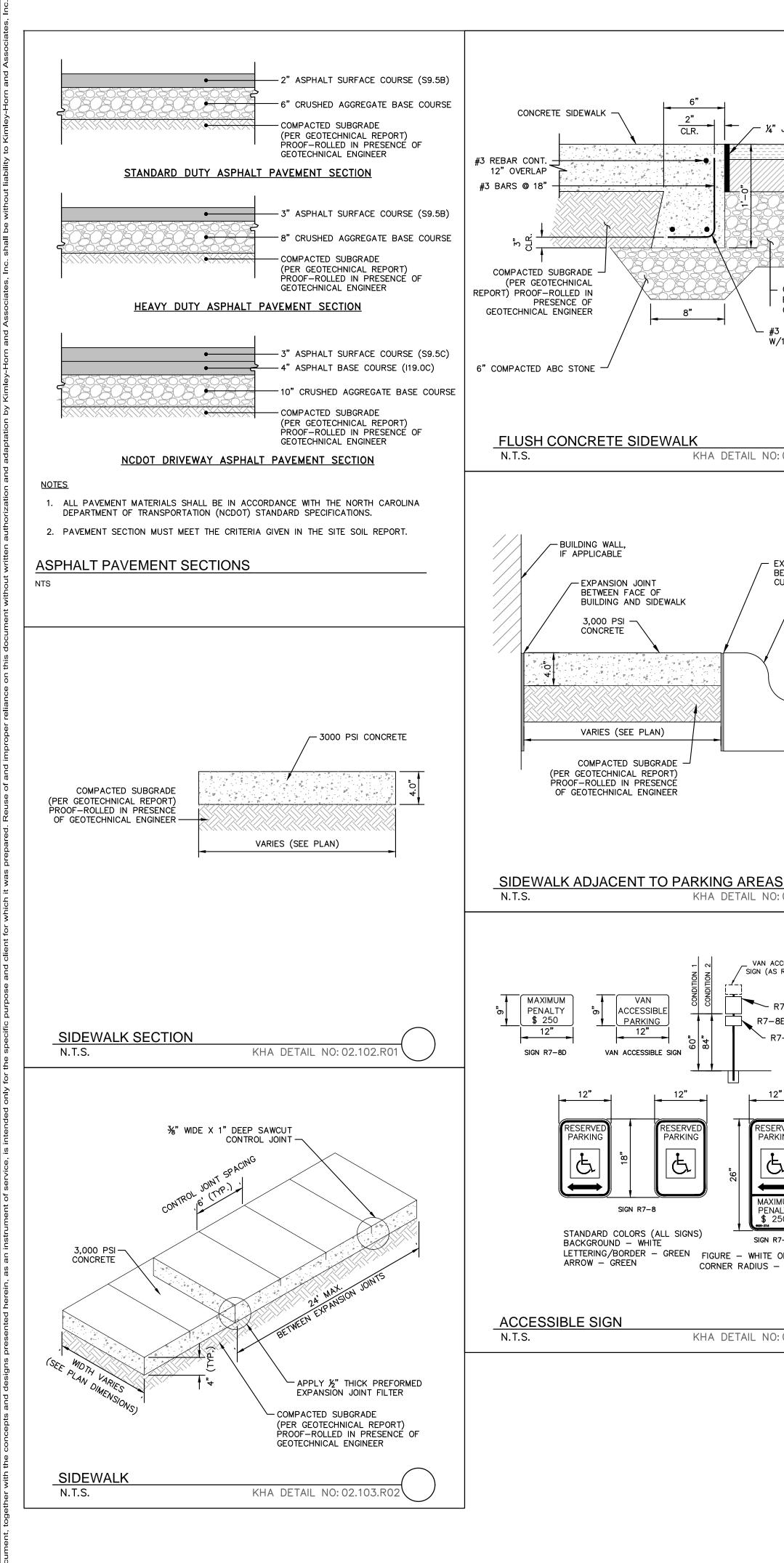
POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

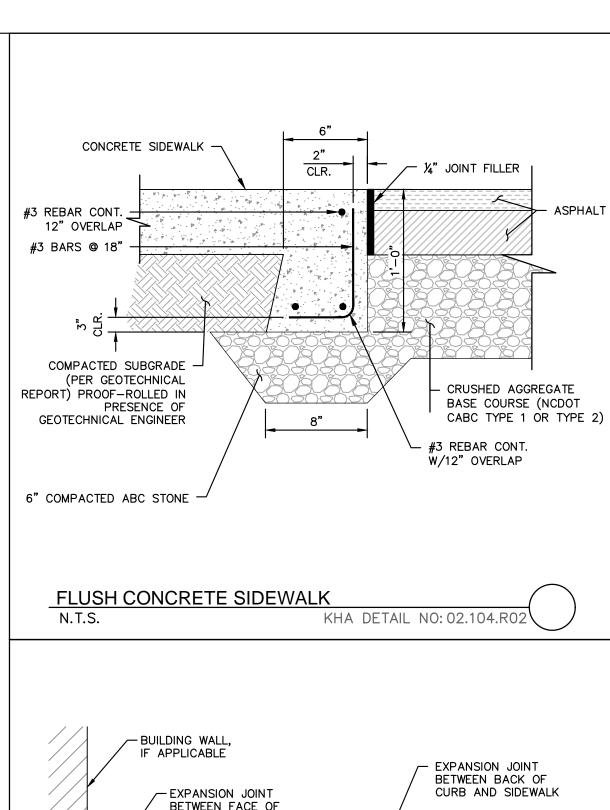
PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE

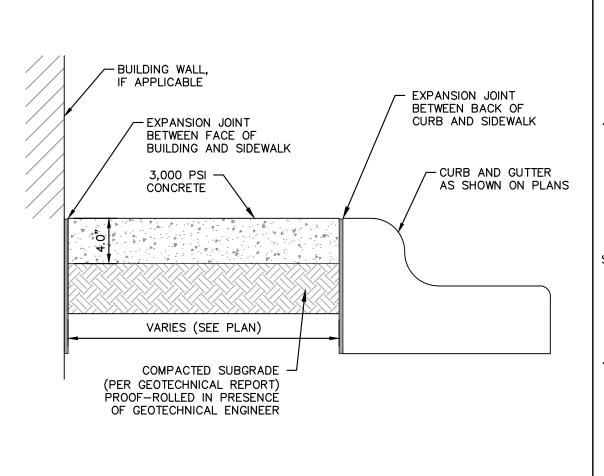
FOREST, NC, 27588, PHONE: (919) 556-3148. CONTRACTOR SHALL BE

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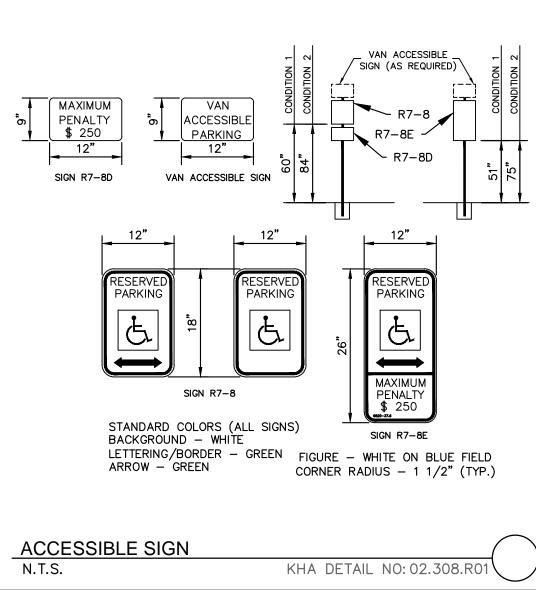


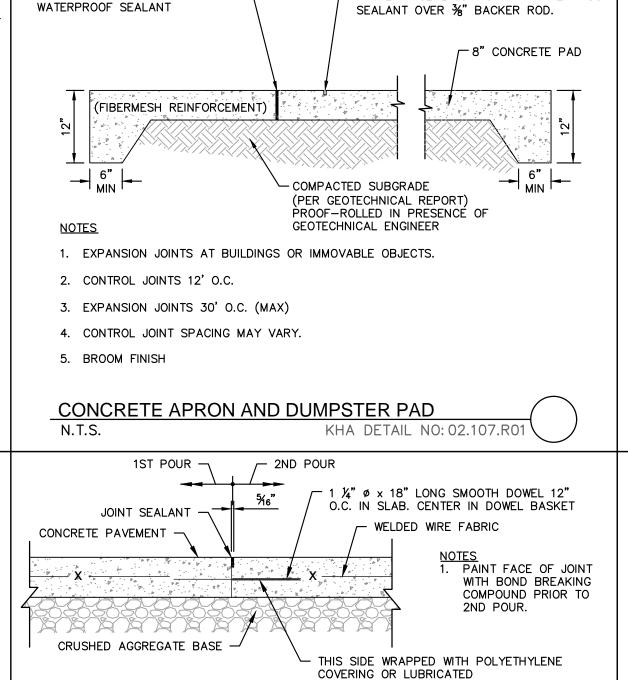






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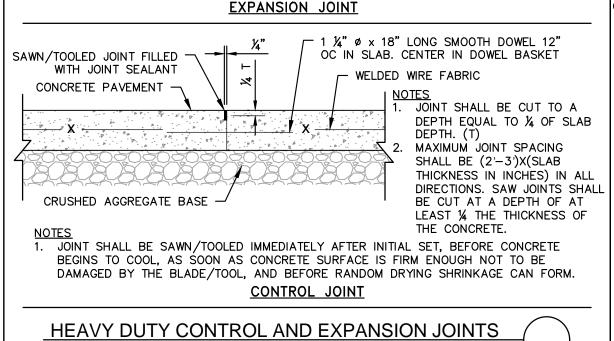




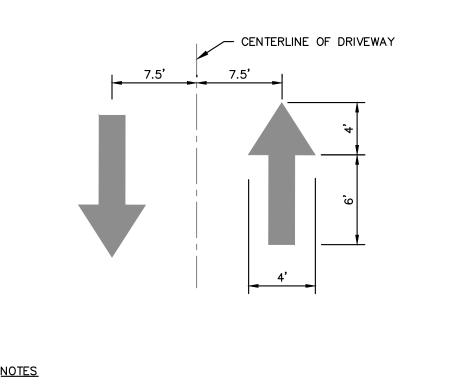
½" THICK PIECE OF BITUMINOUS —

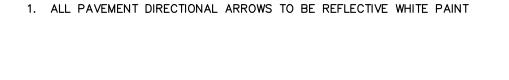
FIBER REQUIRED WHEN ABUTTING

A RIGID STRUCTURE. SEAL WITH

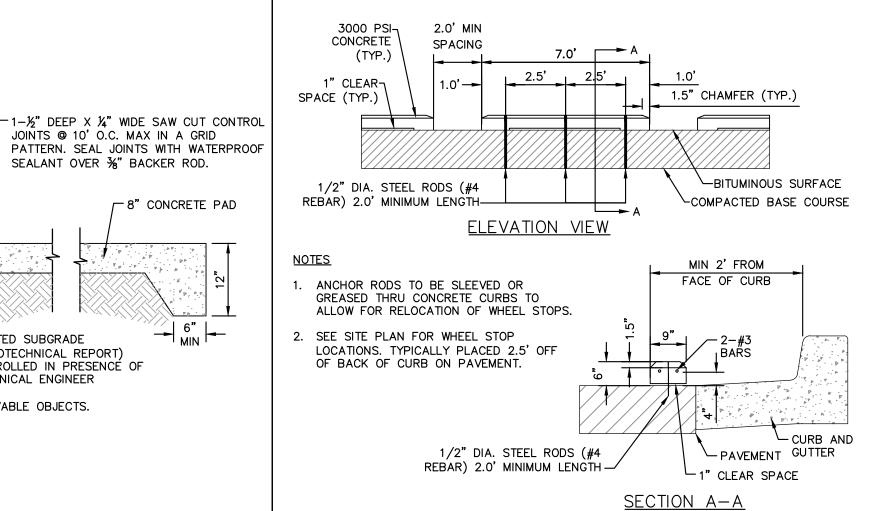


KHA DETAIL NO: 02.108.R0

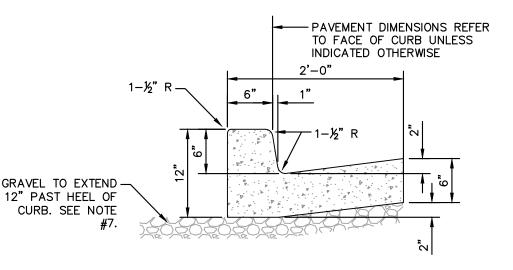




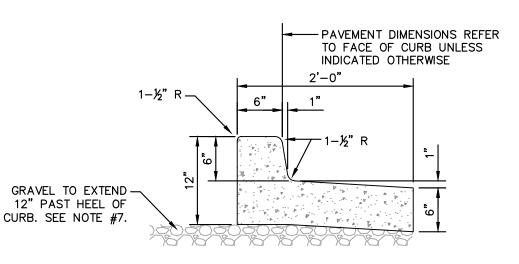












DRY CURB AND GUTTER

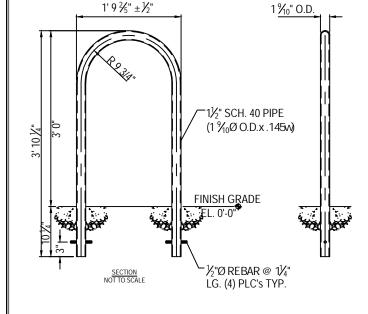
NOTE: INSTALL SPILL CURB IN AREAS WHERE PAVEMENT SLOPES AWAY FROM CURB.

CURB AND GUTTER NOTES

- 1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
- 2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE
- 3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
- 4. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 P.S.I. IN 28 DAYS.
- 5. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS, REFER TO SITE PLAN FOR LOCATIONS.
- 6. TOP 6" OF SUBGRADE BENEATH THE CURB AND GUTTER SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 7. EXTEND GRAVEL 12" PAST HEEL OF CURB IF REQUIRED PER GEOTECHNICAL RECOMMENDATIONS, MIN. DEPTH 4" IF FIELD CONDITIONS

24" CURB AND GUTTER N.T.S.

KHA DETAIL NO: 02.203.R0



INVERTED "U" RACKS 1.5" I.D. STEEL PIPE, EMBEDDED MOUNT

INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. CONTACT MANUFACTURER FOR CUSTOM COLORS.
SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.

RACKS SHALL BE SPACED AT LEAST 24" FROM WALLS, CURB FACES, PAVEMENT EDGES, AND OTHER OBSTRUCTIONS. AT LEAST 36" CLEARANCE SHALL BE PROVIDED FROM THE CENTERLINE OF EACH ADJACENT RACK. A MINIMUM 4' AISLE SHALL BE PROVIDED TO THE FRONT OR REAR OF A BICYCLE SPACE.

NTS

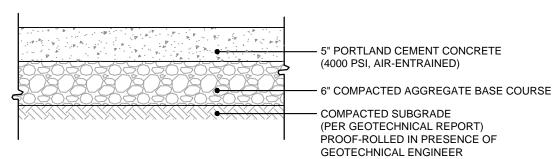
BIKE RACK DETAIL

— 5" PORTLAND CEMENT CONCRETE (4000 PSI, AIR-ENTRAINED) — 4" COMPACTED AGGREGATE BASE COURSE (PER GEOTECHNICAL REPORT) PROOF-ROLLED IN PRESENCE OF GEOTECHNICAL ENGINEER

REVISION DATE:

05/10/2016

STANDARD DUTY CONCRETE PAVEMENT SECTION



HEAVY DUTY CONCRETE PAVEMENT SECTION

1. ALL PAVEMENT MATERIALS SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD SPECIFICATIONS.

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

POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

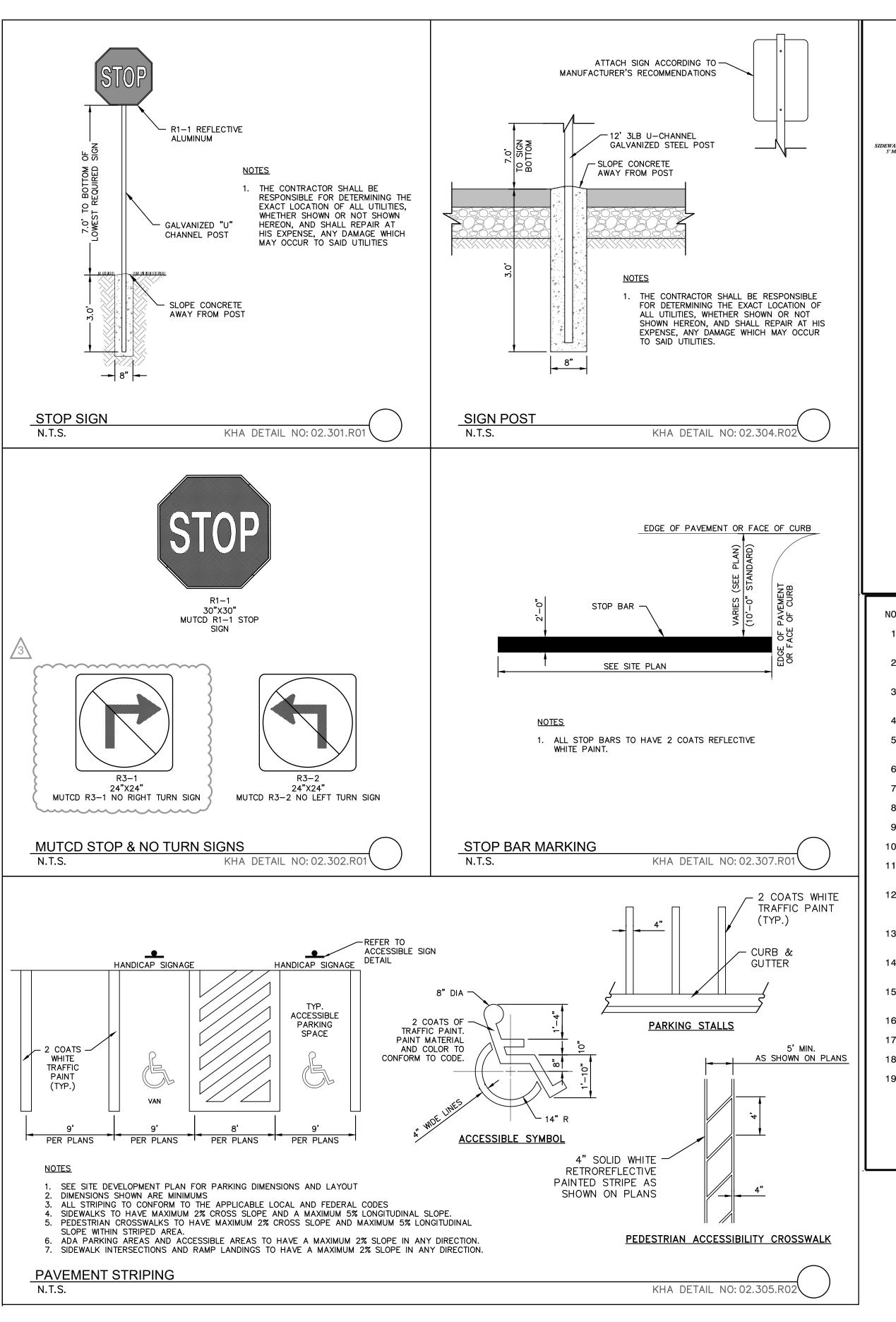
FOREST, NC, 27588, PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT

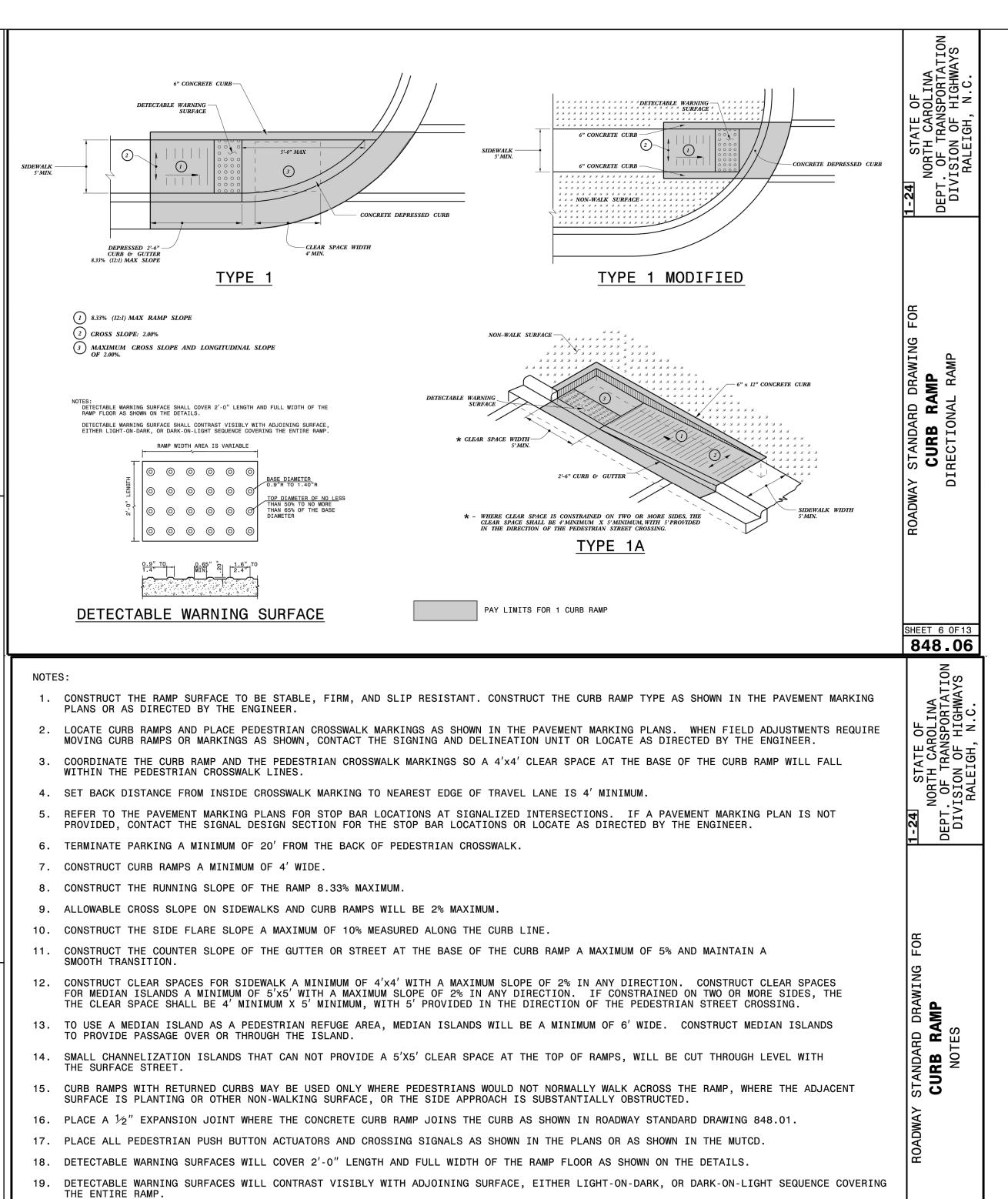
2. PAVEMENT SECTION MUST MEET THE CRITERIA GIVEN IN THE SITE SOIL REPORT.

CONCRETE PAVEMENT SECTIONS KHA DETAIL NO:

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SHEET NUMBER C8.0





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POTENTIAL CONFLICTS TO OWNER AND ENGINEER.



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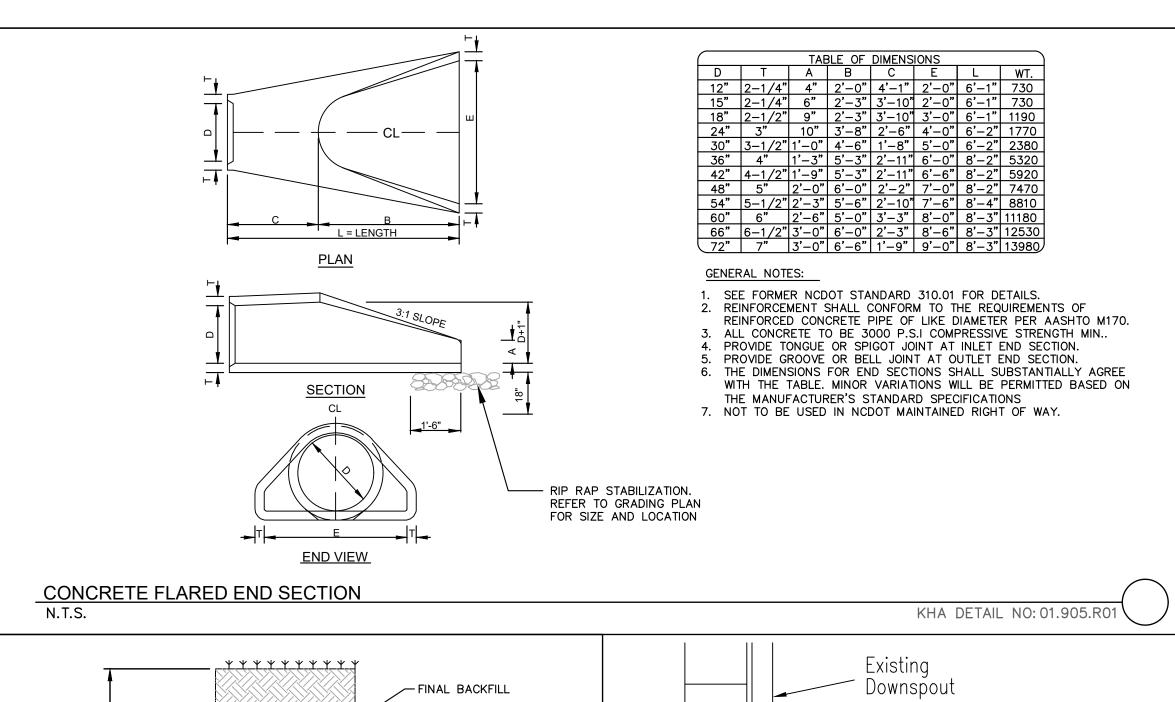
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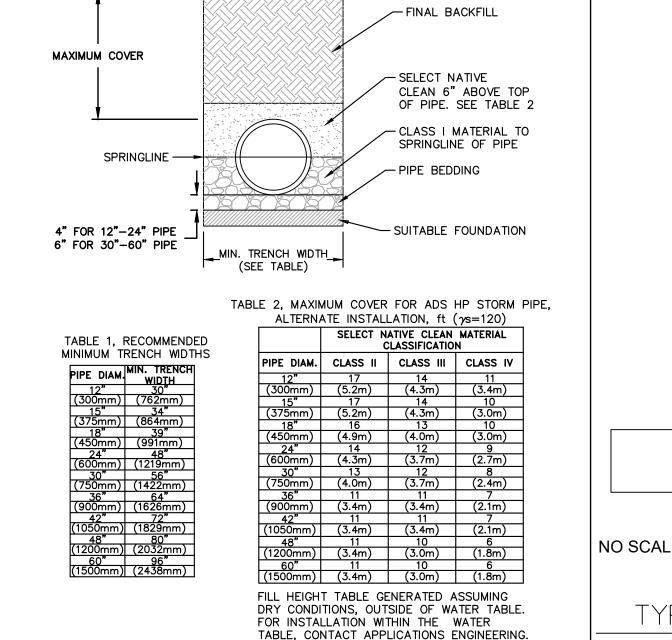
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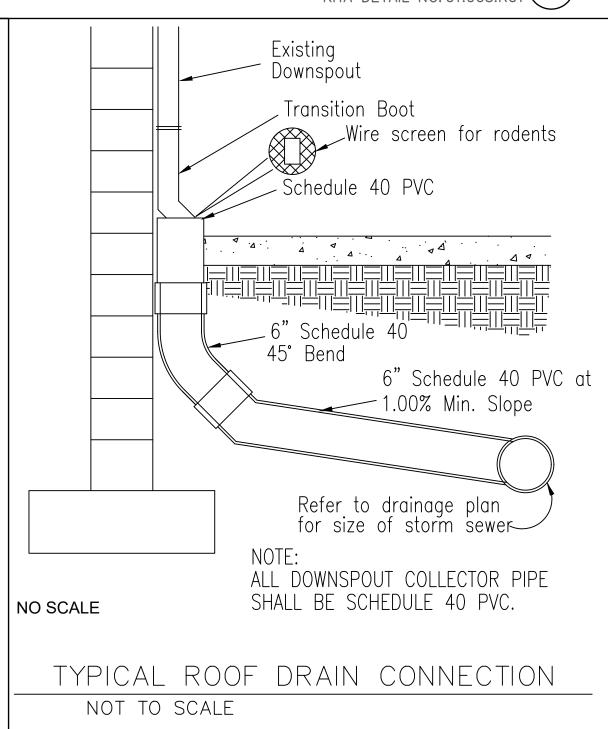


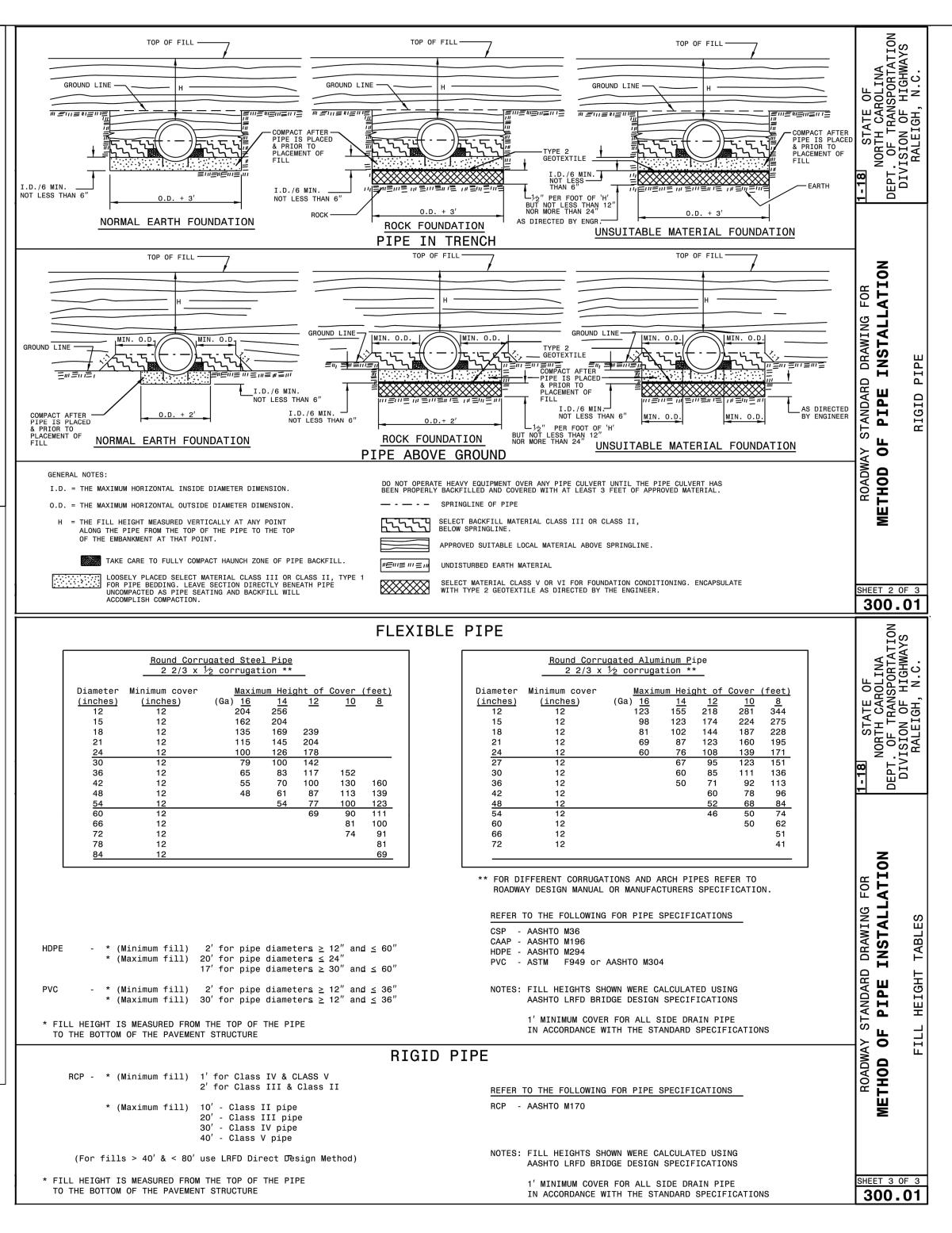


MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL

- MATERIAL, WHEN REQUIRED. 2. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
- FOUNDATION WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- <u>BEDDING</u> SUITABLE MATERIAL SHALL BE CLASS I. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
- BACKFILL FOR PIPES OUTSIDE OF PAVEMENT CLASS I MATERIAL TO BE USED FOR BACKFILL UP TO THE SPRINGLINE OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER. CLASS I MATERIAL MUST BE COMPACTED IN 6" (200mm) LIFTS.
- MINIMUM COVER MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION.
- SELECT NATIVE CLEAN BACKFILL SHALL BE WELL PLACED, MODERATELY COMPACTED (85% SPD) CLASS IV OR BETTER PER ASTM D2321 WITH NO FOREIGN DEBRIS INCLUDING ROCKS, LARGE CLUMPS ORGANIC MATERIAL, OR FROZEN MATERIAL.
- B. HP STORM ALTERNATE TRENCH DETAIL ONLY APPLIES TO BACKFILL INSTALLATIONS IN NON-TRAFFIC APPLICATIONS PER TN 2.04A. ALTERNATE TRENCH USE MUST BE APPROVED BY DESIGN ENGINEER. DETAIL DOES NOT SUPERSEDE ADS STANDARD DETAIL STD-108.

HP STORM TRENCH INSTALLATION DETAIL N.T.S. KHA DETAIL NO: 03.101.R01





SURVEY NOTE:
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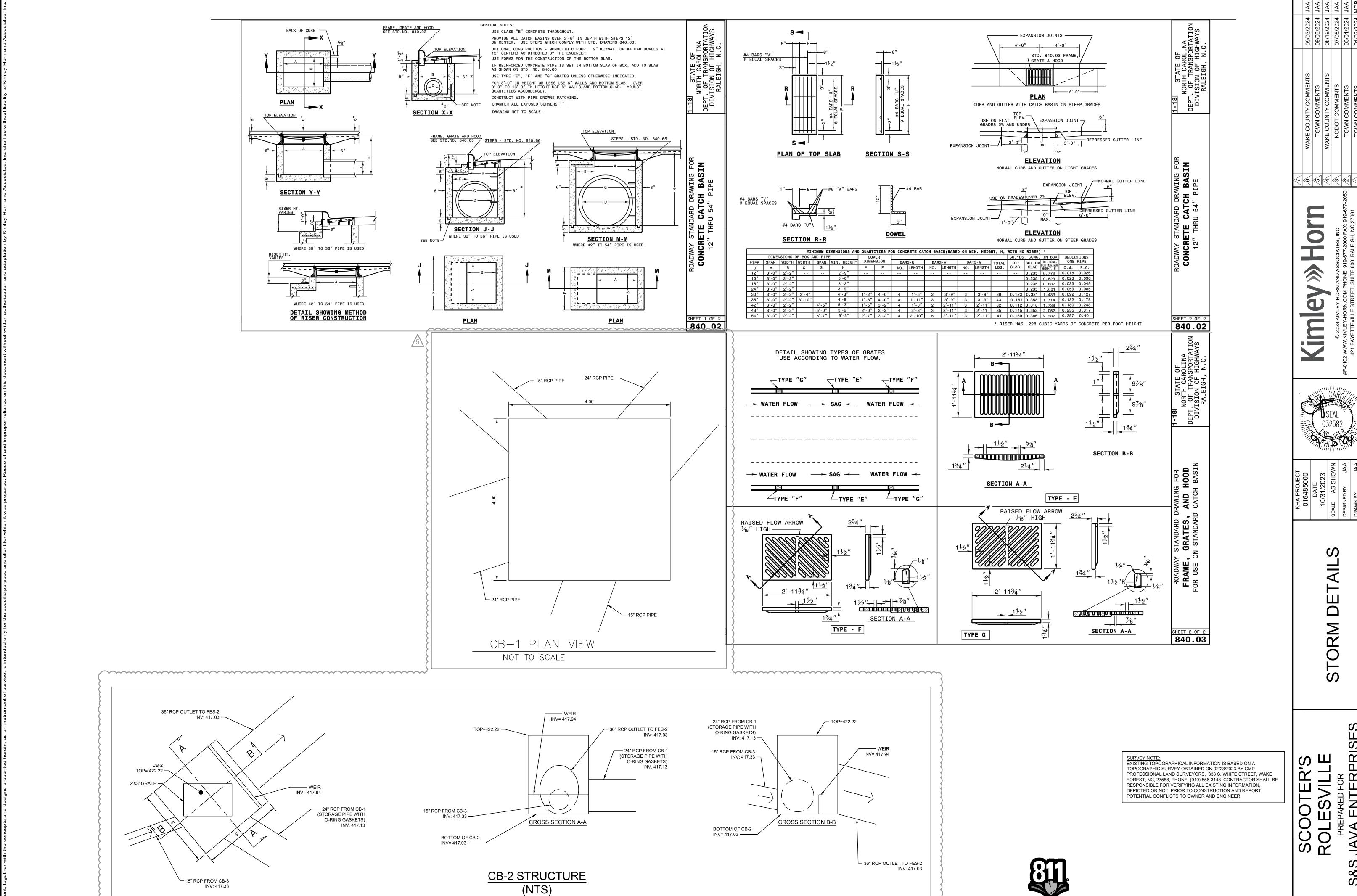
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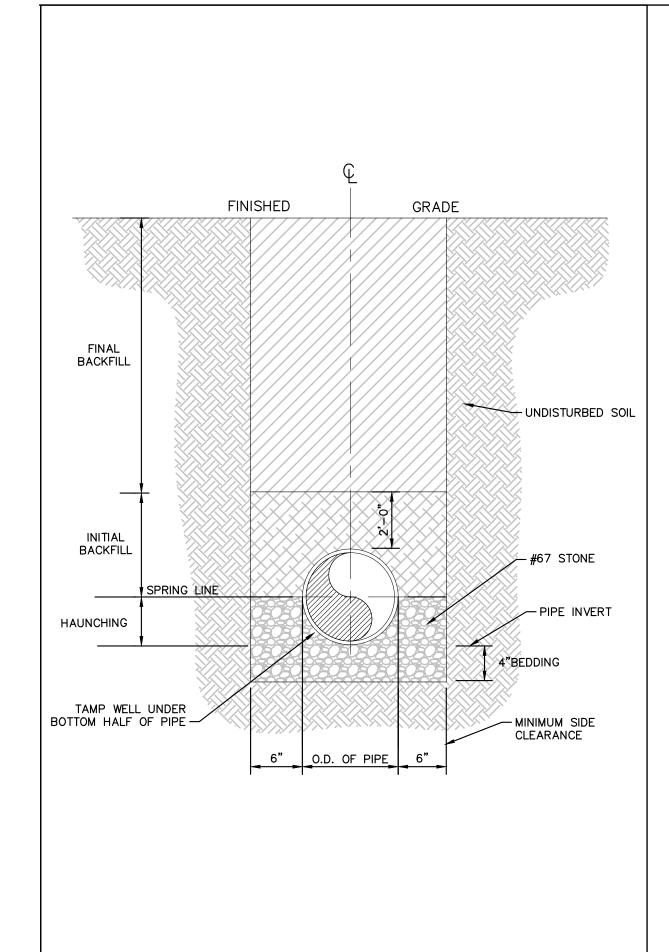
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STORM

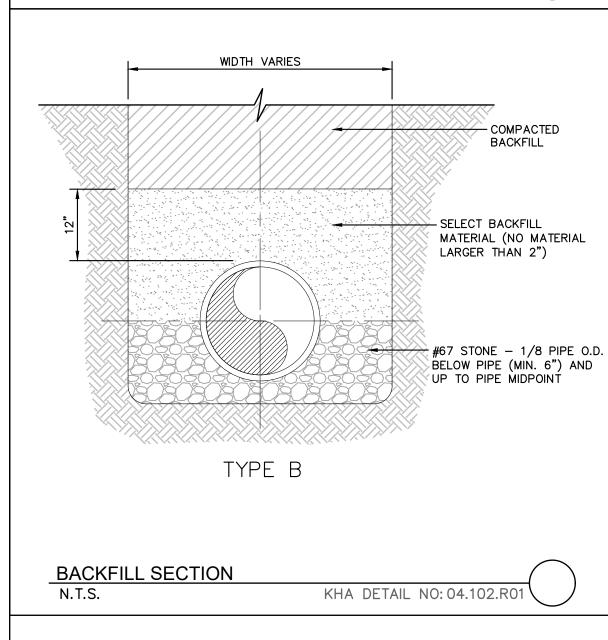
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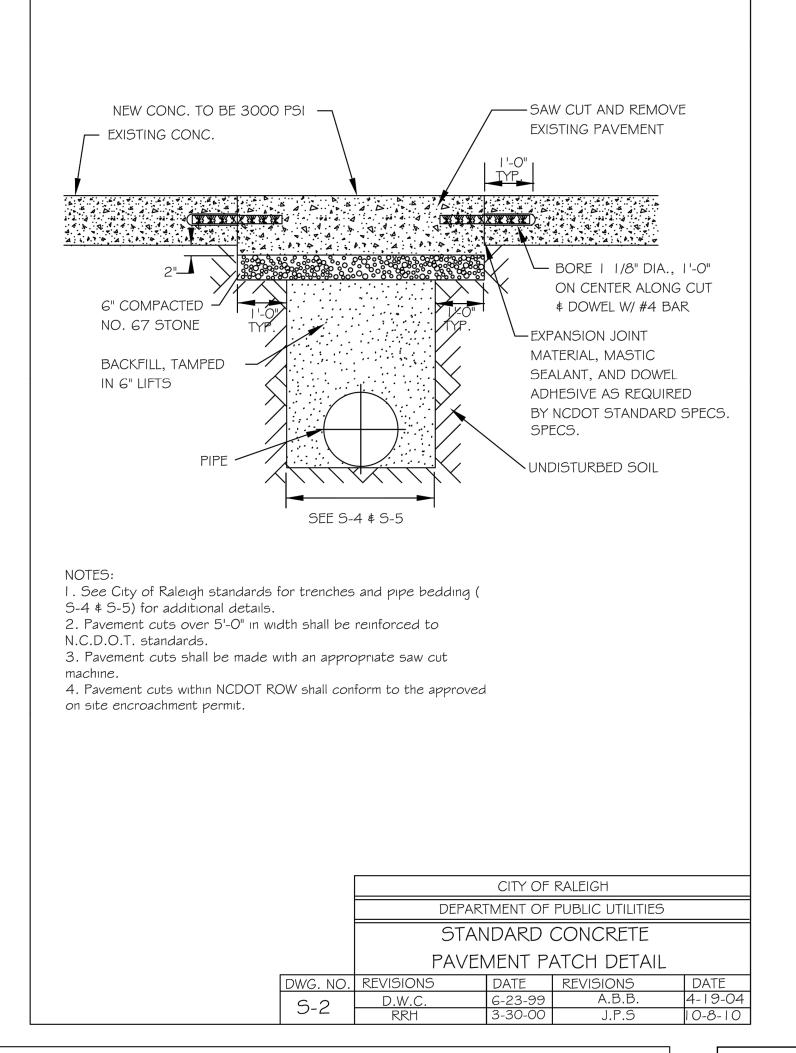
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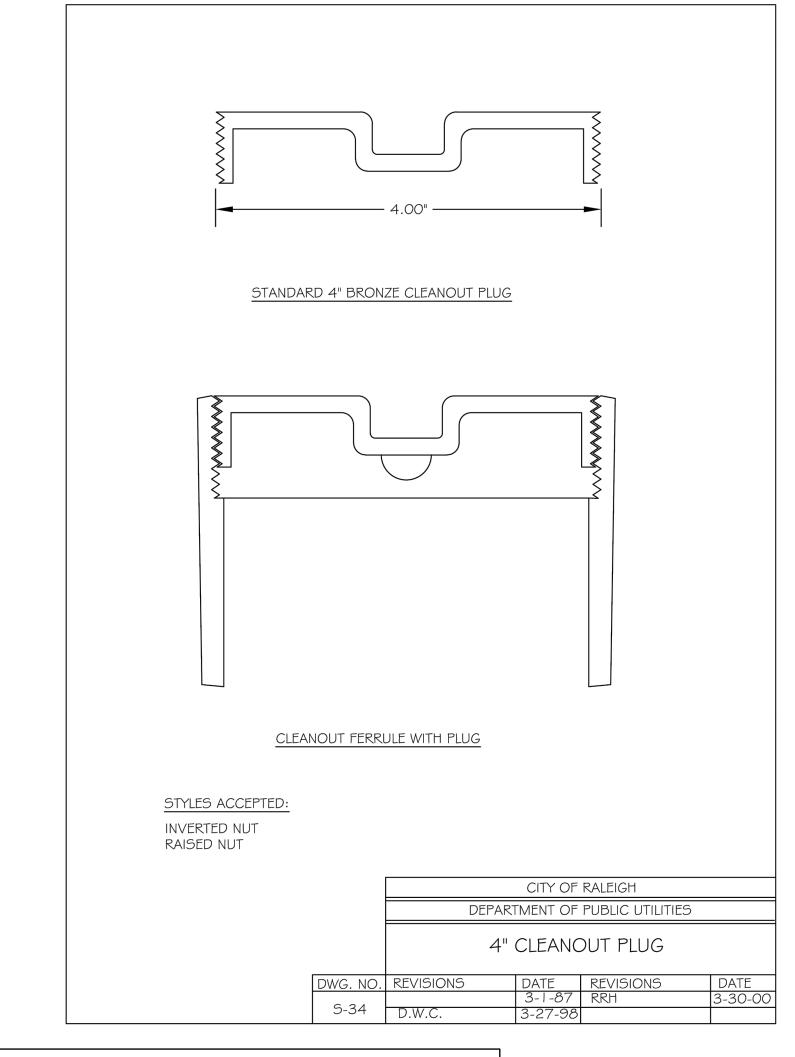


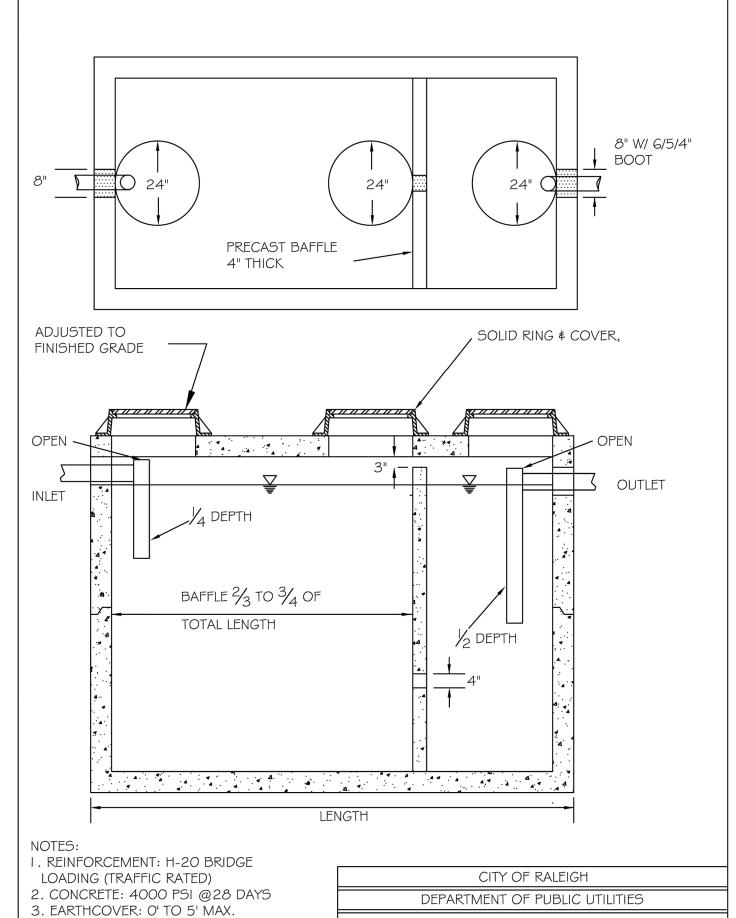
- FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
- 2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
- 3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC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







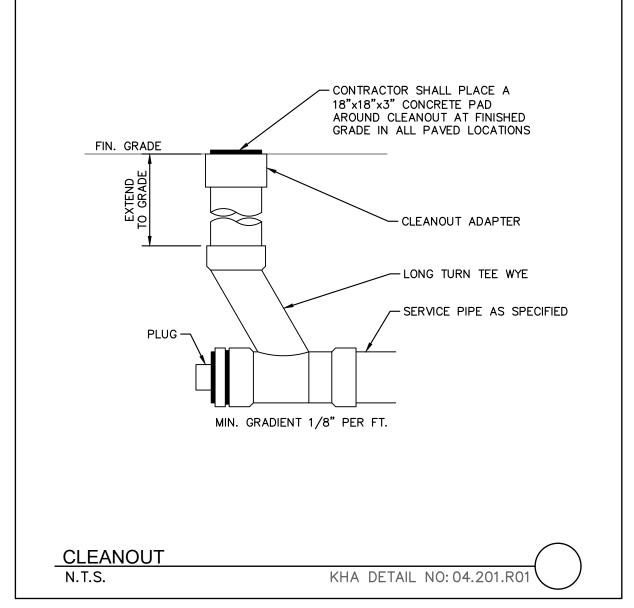




1000 GALLON GREASE INTERCEPTOR

6/18/08

DWG. NO. REVISIONS DATE REVISIONS



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POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

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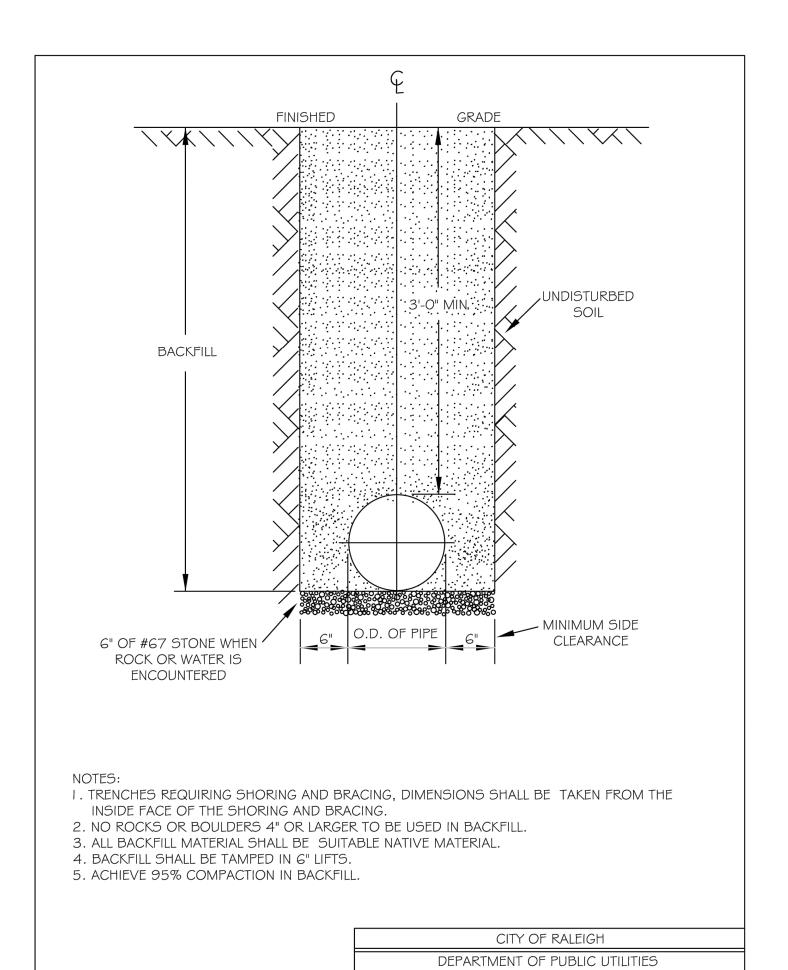
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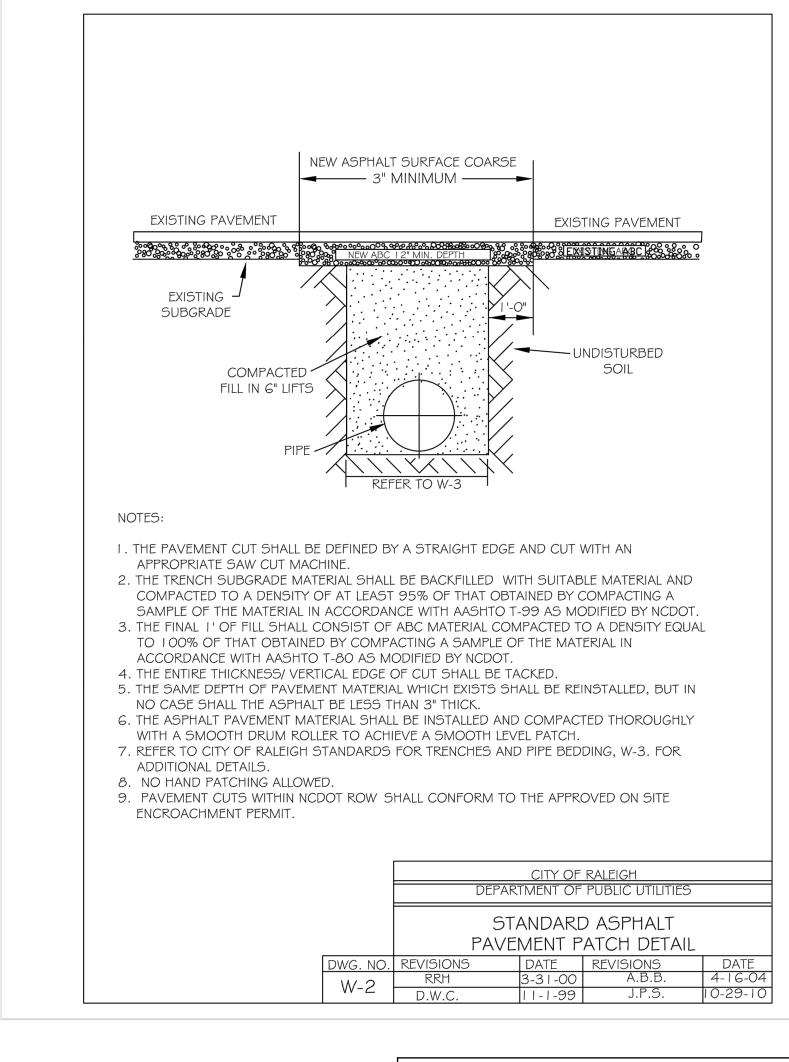
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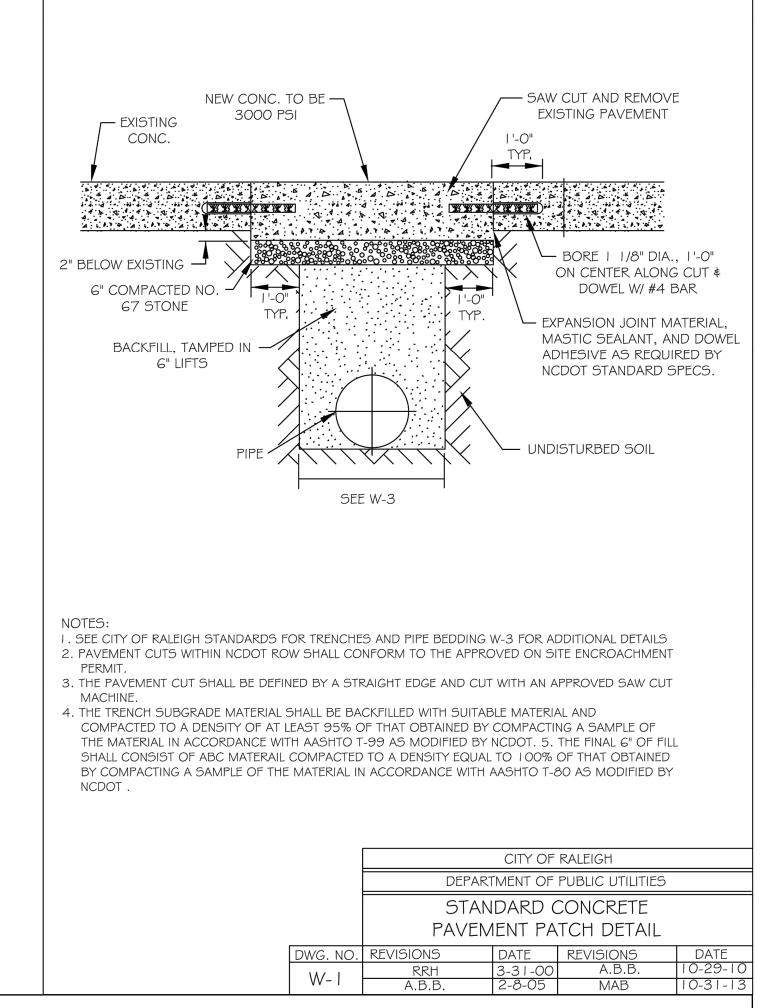
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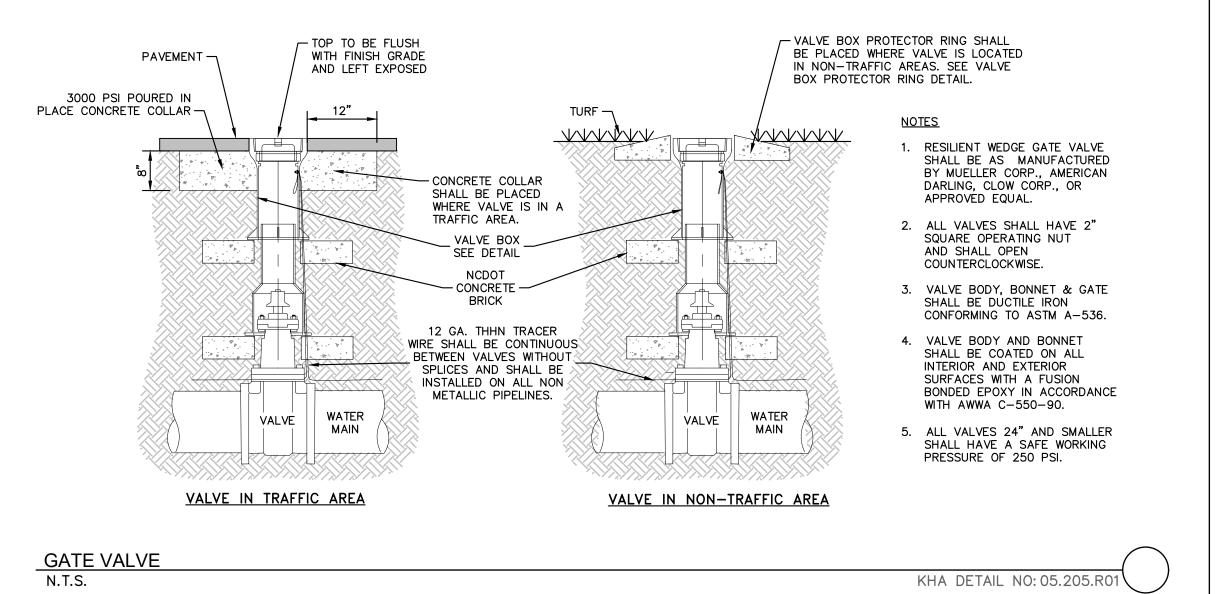
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TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON







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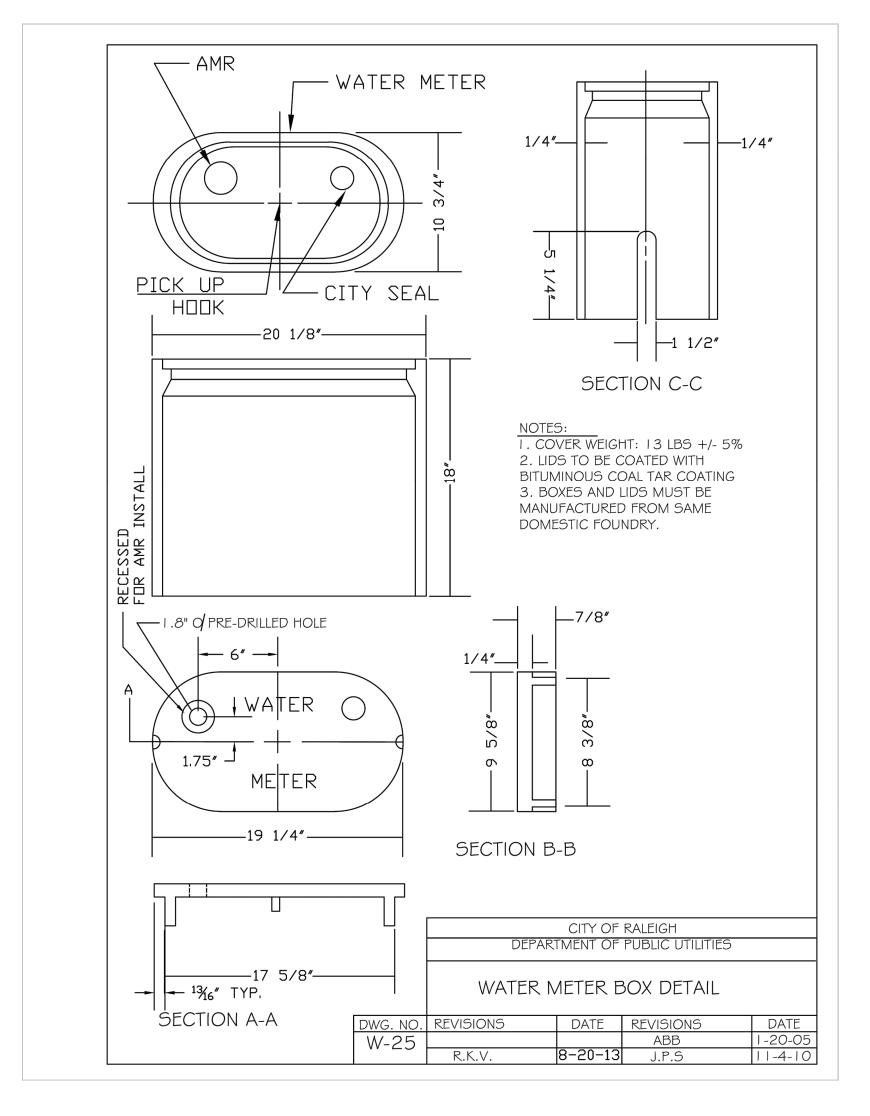


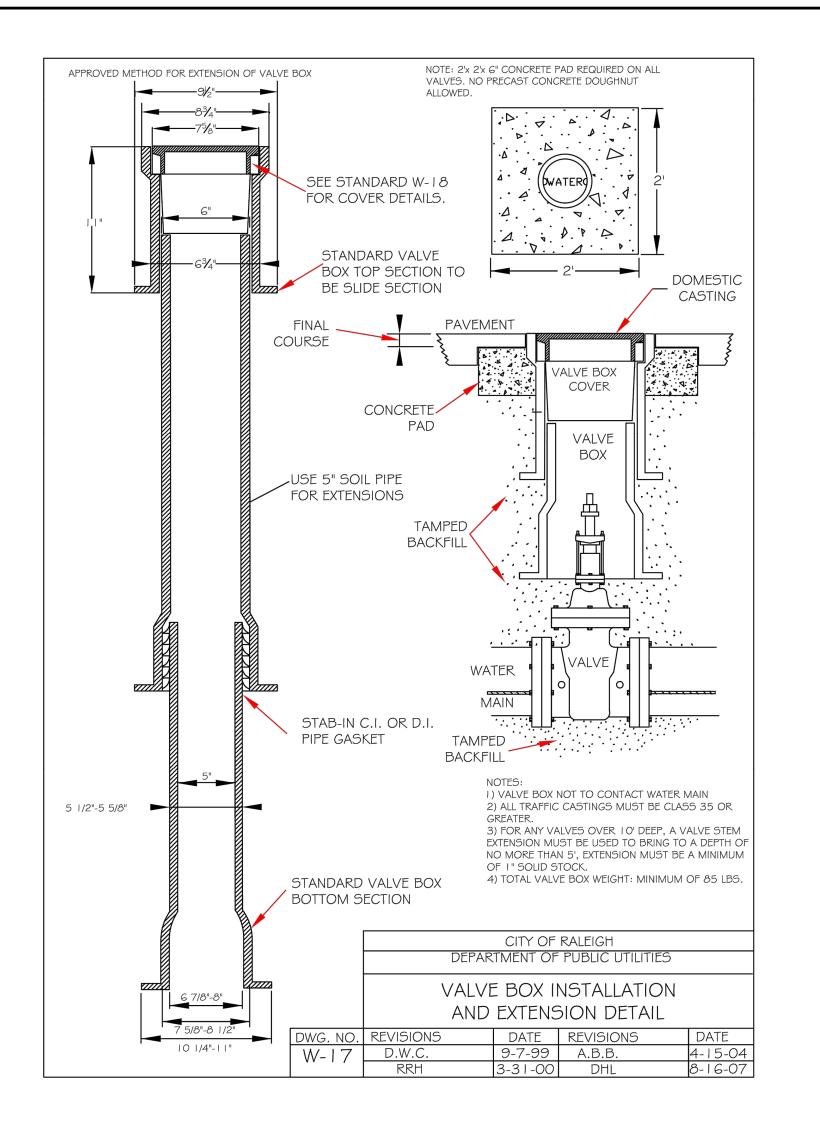
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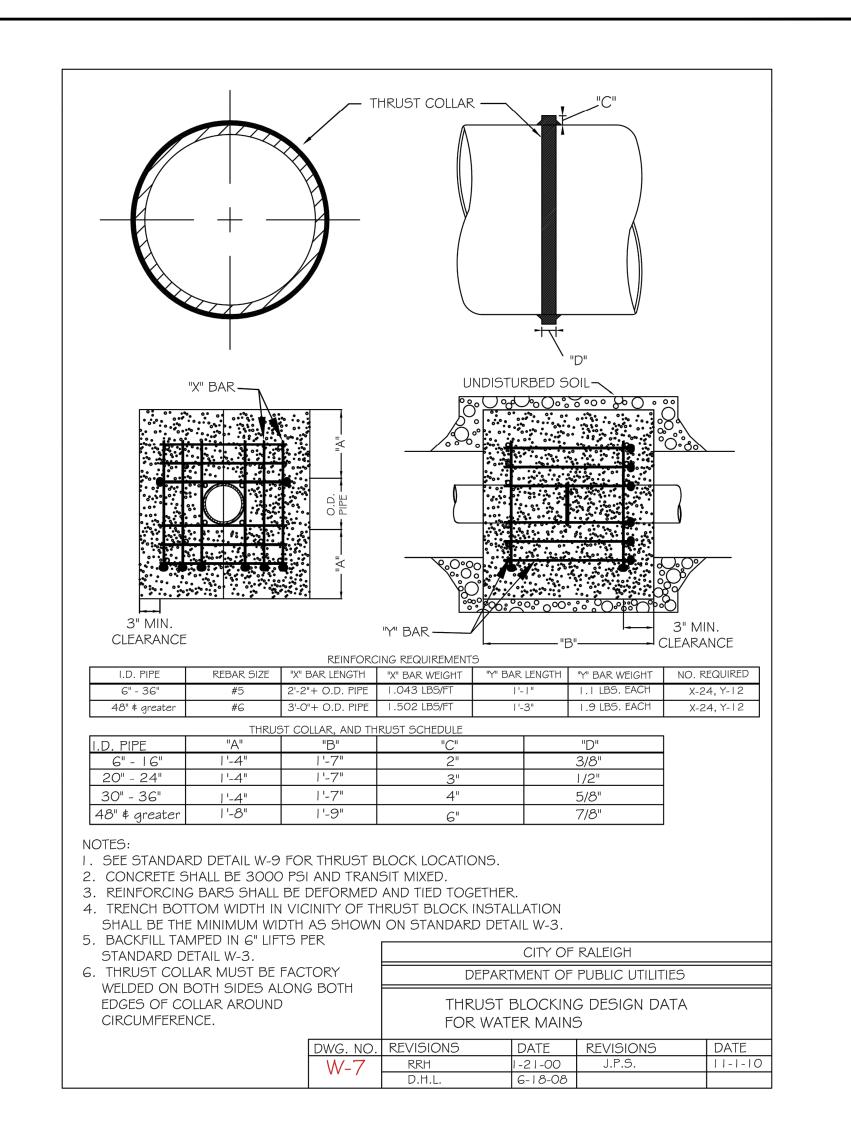
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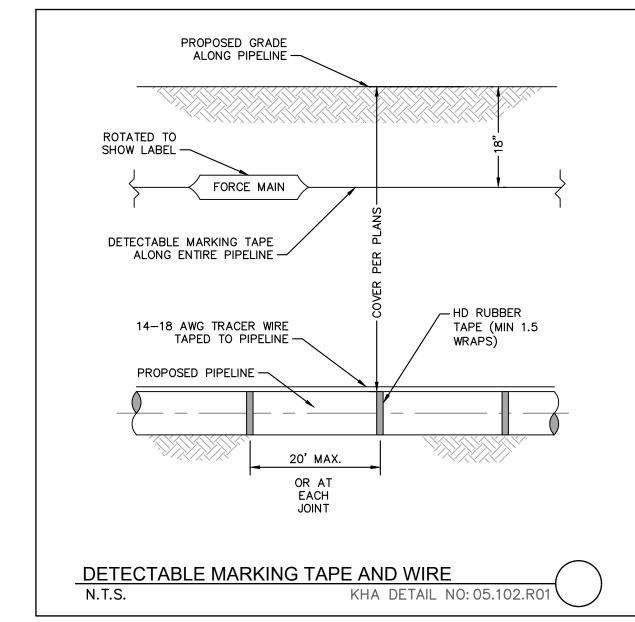
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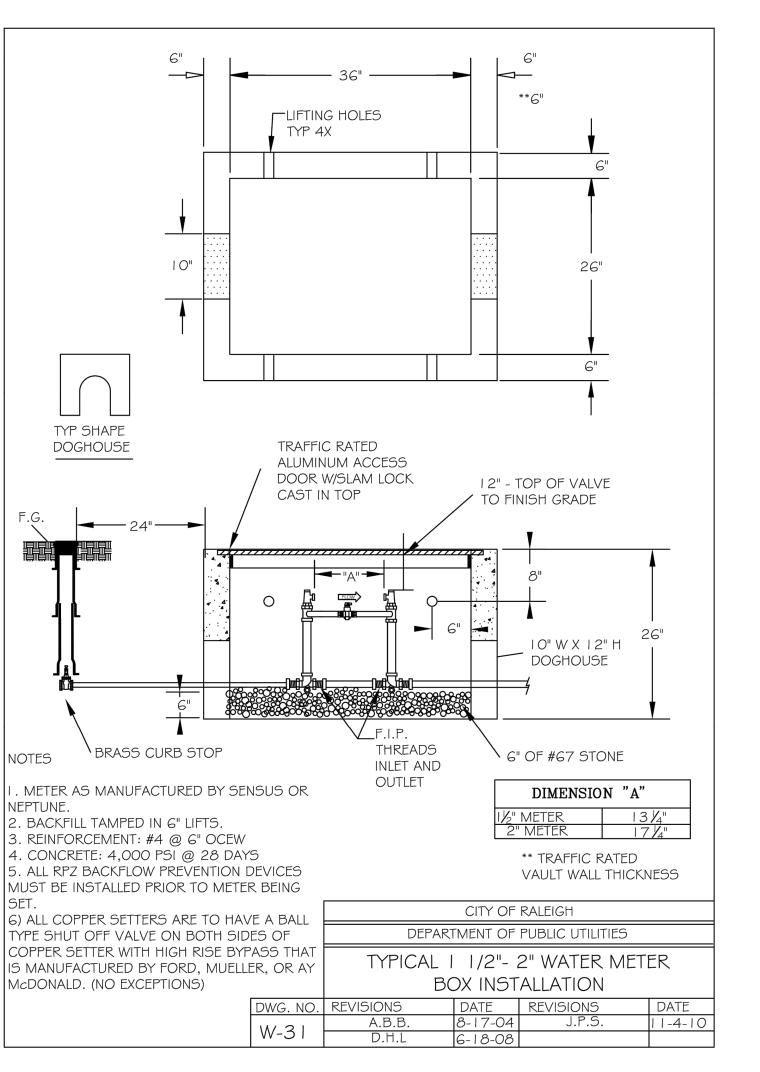
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SHEET NUMBER C11.1

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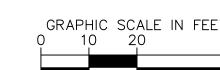
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	SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON	NAME	CONT.	CAL.	HEIGHT	
	PERIMETE	R BUFFE	R TREES							
	2	AR	7	ACER RUBRUM	RED MAPLE		FG, B&B	3" CAL.	10-12` MIN	
		CF	3	CORNUS FLORIDA	FLOWERING	DOGWOOD	FG, B&B	2" CAL. MIN	8` MIN.	
	STREET T	TREET TREES								
-		MG	4	MAGNOLIA GRANDIFLORA	SOUTHERN	MAGNOLIA	FG, B&B	3" CAL.	10-12` MIN	
	SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON	NAME	CONT.	HEIGHT		
	PERIMETE	ERIMETER BUFFER SHRUBS								
		LF	35	LEUCOTHOE FONTANESIANA	DROOPING	LEUCOTHOE	3 GAL	24" HT.		
	£.	RC	25	RHODODENDRON CATAWBIENSE	MOUNTAIN I	ROSEBAY	3 GAL	24" HT.		
7	\odot	VS	28	ITEA VIRGINICA	VIRGINIA SV	VEETSPIRE	3 GAL	24" HT.		
}	PARKING PERIMETER SHRUBS									
	\odot	BS	37	BUXUS SEMPERVIRENS	COMMON B	DXWOOD	3 GAL	24" HT.		
	SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON	NAME	SIZE			SPACING
	GROUND COVERS						T	Г	T	
:		CD	8,625 SF	CYNODON DACTYLON	BERMUDAG	RASS	SOD			
		LM	1,510	LIRIOPE MUSCARI	LILYTURF		PLUGS			10" o.c.
1		X3	2,614 SF		MULCH		N/A			

1. ESTABLISH SOD IN ALL DISTURBED AREAS. SEE SPECIFICATIONS FOR MORE INFORMATION. 2. ALL AREAS WITH PROPOSED LANDSCAPE MATERIAL SHALL RECEIVE A MINIMUM THREE (3) INCHES OF SHREDDED HARDWOOD MULCH. SEE LANDSCAPE PLAN FOR MULCH BOUNDARY LINES. SEE LANDSCAPE DETAILS FOR TYPICAL MULCH AREA DIMENSIONS.

LANDSCAPE NOTES:

(4,809 sf) CD -

(255 sf) CD

LANDSCAPE REQUIREMENTS

Type 3 Perimeter Buffer: 136 lf

Canopy Trees

Understory Trees

STREET BUFFER 6.2.2.2

PARKING LANDSCAPING 6.2.4.4

Street Buffer: 126 lf

Parking Perimeter

Tree Coverage

Street Tree

PERIMETER BUFFER REQUIREMENTS 6.2.2.1

Required

4 canopy trees per 100 linear feet =

6 canopy trees 2 understory trees per 100 linear feet =

3 understory trees

60 shrubs per 100 linear feet =

Required 30 feet

1 per 40 linear feet =

4 street trees

Required

Continious row of shrubs within 5 feet of

the parking lot edge

No portion of parking space may be further

than 60' from a tree trunk

Provided

Variable Width per Approved

Variance (VAR-24-02)

6 Canopy Trees

3 Understory Trees

82 shrubs

Provided

Provided

4 Street Trees

Provided

Provided

Provided

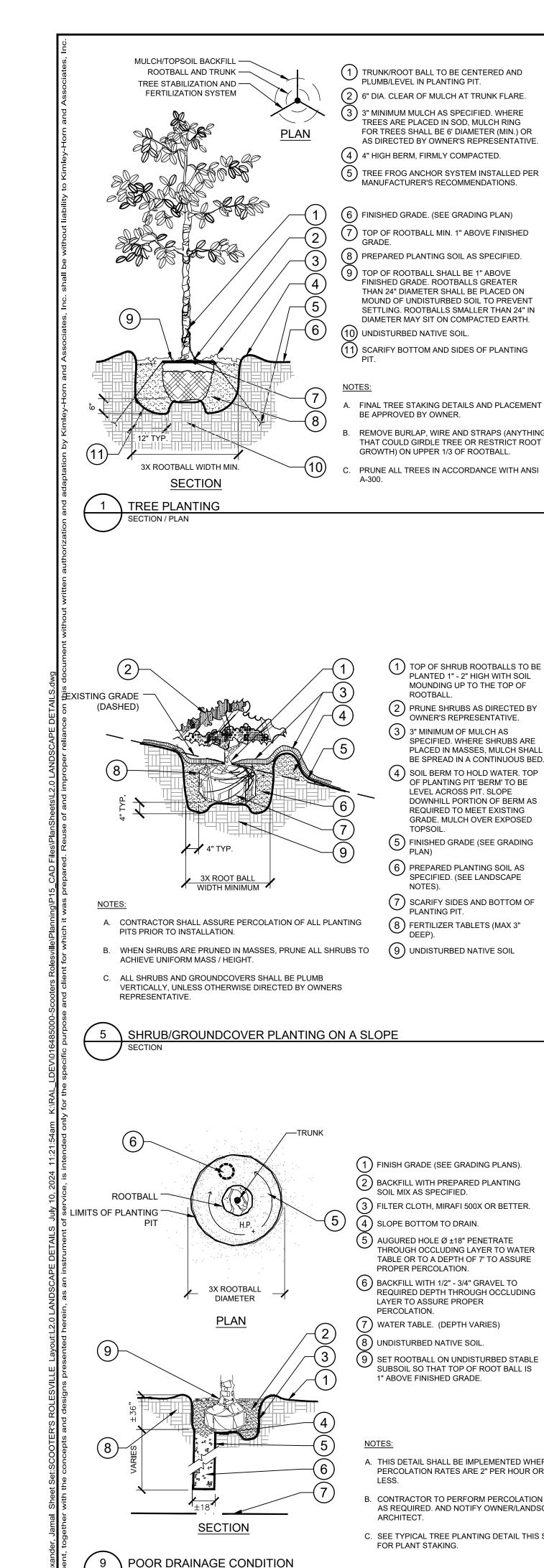
- 1. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 3" OF TOPSOIL. DO NOT MOUND MULCH AGAINST ROOT FLARES.
- 2. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
- 3. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
- 4. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
- 5. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED.
- 6. ANY DISTURBED GRASS AREA IS TO BE REPLANTED. ALL SLOPES 3:1 OR GREATER SHALL BE SEEDED WITH SLOPE MASTER NO-MOW MIX OR OWNER
- 7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE WARRANTY PERIOD.
- 11. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
- 12. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR WARRANTY PERIOD. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON.
- 13. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
- 14. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES, AND SHALL BE STATE STANDARD OR BETTER
- 15. ALL INVASIVE / EXOTIC SPECIES AND PROHIBITED TREE SPECIES SHALL BE REMOVED FROM SITE, INCLUDING ROOT BALLS TO THE EXTENT POSSIBLE WITH NO DAMAGE TO ADJACENT EXISTING TREES.
- 16. CONTRACTOR TO DESIGN BUILD SYSTEM AND VERIFY ALL PRODUCTS WITH LANDSCAPE ARCHITECT.
- 17. TREE SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE ONCE IT IS "ESTABLISHED" (AS APPROVED BY THE LANDSCAPE ARCHITECT).
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL UTILITIES ARE ADEQUATELY SCREENED WITH THE REQUIRED PLANTING MATERIAL AND VERIFY PLANT SPECIES WITH LANDSCAPE ARCHITECT.
- 19. ALL PLANT SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL PROCURE PLANT MATERIALS AND UPSIZE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION.

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SDP-23-09

(A) (A) (B) (C) (A)



PLUMB/LEVEL IN PLANTING PIT.

TREES ARE PLACED IN SOD, MULCH RING

MANUFACTURER'S RECOMMENDATIONS.

FINISHED GRADE. ROOTBALLS GREATER

THAN 24" DIAMETER SHALL BE PLACED ON

MOUND OF UNDISTURBED SOIL TO PREVENT

SETTLING. ROOTBALLS SMALLER THAN 24" IN

DIAMETER MAY SIT ON COMPACTED EARTH.

FINAL TREE STAKING DETAILS AND PLACEMENT TO

REMOVE BURLAP, WIRE AND STRAPS (ANYTHING

1) TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL

MOUNDING UP TO THE TOP OF

PRUNE SHRUBS AS DIRECTED BY OWNER'S REPRESENTATIVE.

SPECIFIED. WHERE SHRUBS ARE PLACED IN MASSES, MULCH SHALL BE SPREAD IN A CONTINUOUS BED. 4) SOIL BERM TO HOLD WATER. TOP

OF PLANTING PIT 'BERM' TO BE

DOWNHILL PORTION OF BERM AS

LEVEL ACROSS PIT. SLOPE

REQUIRED TO MEET EXISTING

(5) FINISHED GRADE (SEE GRADING

SPECIFIED. (SEE LANDSCAPE

7 SCARIFY SIDES AND BOTTOM OF

8 FERTILIZER TABLETS (MAX 3" DEEP).

9 UNDISTURBED NATIVE SOIL

FINISH GRADE (SEE GRADING PLANS).

(2) BACKFILL WITH PREPARED PLANTING

(5) AUGURED HOLE Ø ±18" PENETRATE

(6) BACKFILL WITH 1/2" - 3/4" GRAVEL TO

LAYER TO ASSURE PROPER

(3) FILTER CLOTH, MIRAFI 500X OR BETTER.

THROUGH OCCLUDING LAYER TO WATER

TABLE OR TO A DEPTH OF 7' TO ASSURE

REQUIRED DEPTH THROUGH OCCLUDING

9) SET ROOTBALL ON UNDISTURBED STABLE

SUBSOIL SO THAT TOP OF ROOT BALL IS

A. THIS DETAIL SHALL BE IMPLEMENTED WHERE

PERCOLATION RATES ARE 2" PER HOUR OR

. CONTRACTOR TO PERFORM PERCOLATION TEST AS REQUIRED. AND NOTIFY OWNER/LANDSCAPE

C. SEE TYPICAL TREE PLANTING DETAIL THIS SHEET

SOIL MIX AS SPECIFIED.

(4) SLOPE BOTTOM TO DRAIN.

PROPER PERCOLATION.

8) UNDISTURBED NATIVE SOIL.

FOR PLANT STAKING.

1" ABOVE FINISHED GRADE.

PERCOLATION.

6 PREPARED PLANTING SOIL AS

GRADE. MULCH OVER EXPOSED

3) 3" MINIMUM OF MULCH AS

ROOTBALL.

TOPSOIL.

PLANTING PIT.

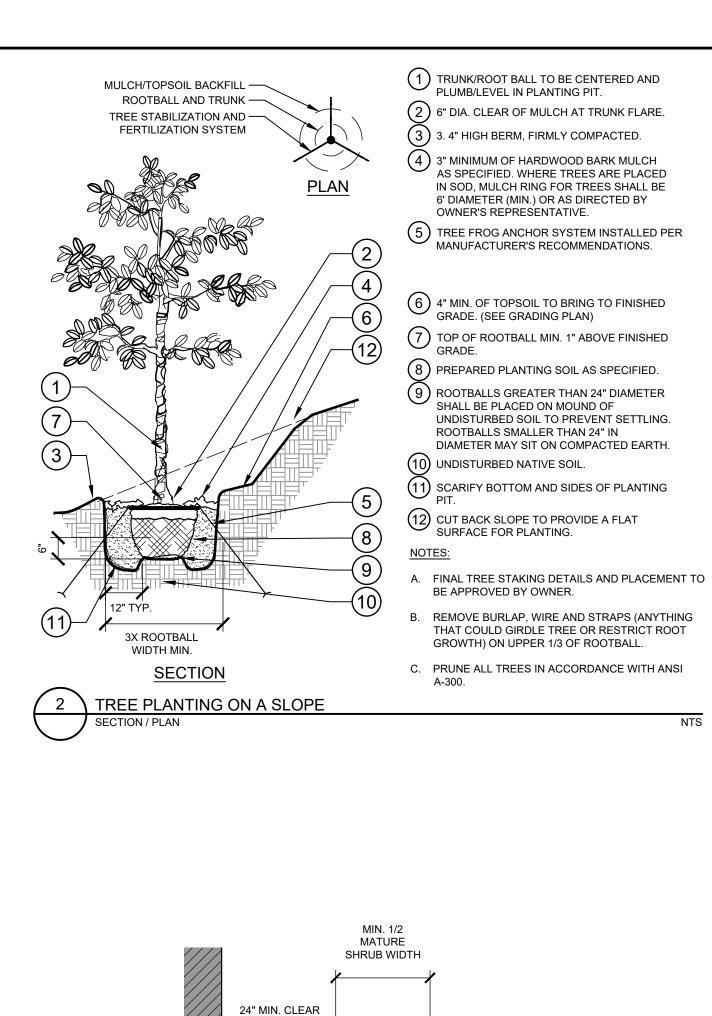
THAT COULD GIRDLE TREE OR RESTRICT ROOT

GROWTH) ON UPPER 1/3 OF ROOTBALL.

BE APPROVED BY OWNER.

FOR TREES SHALL BE 6' DIAMETER (MIN.) OR

AS DIRECTED BY OWNER'S REPRESENTATIVE.



A DEPTH OF 3" (MIN.)

ELEVATION

<u>PLAN</u>

CONNECTION

TREE PROTECTION FENCING

PLANTINGS ADJACENT TO BUILDINGS

PLUMB/LEVEL IN PLANTING PIT.

OWNER'S REPRESENTATIVE.

GRADE. (SEE GRADING PLAN)

SHALL BE PLACED ON MOUND OF

ROOTBALLS SMALLER THAN 24" IN

SURFACE FOR PLANTING.

BE APPROVED BY OWNER.

(1) 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S

REPRESENTATIVE APPROVED EQUAL.

SUBMIT PRODUCT INFORMATION FOR

2) 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24"

A. POST SELECTION SHOULD BE BASED ON EXPECTED

CONSTRUCTION AND OTHER APPLICATIONS.

C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL

CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR

BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE

RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND

TREATED WOOD POSTS ARE TYPICALLY USED FOR

B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY

BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND

OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

APPROVAL PRIOR TO INSTALLATION.

BURIAL BELOW GRADE.

INSTALLATION NOTES:

UNDISTURBED SOIL TO PREVENT SETTLING.

DIAMETER MAY SIT ON COMPACTED EARTH.

REMOVE BURLAP, WIRE AND STRAPS (ANYTHING

THAT COULD GIRDLE TREE OR RESTRICT ROOT

GROWTH) ON UPPER 1/3 OF ROOTBALL.

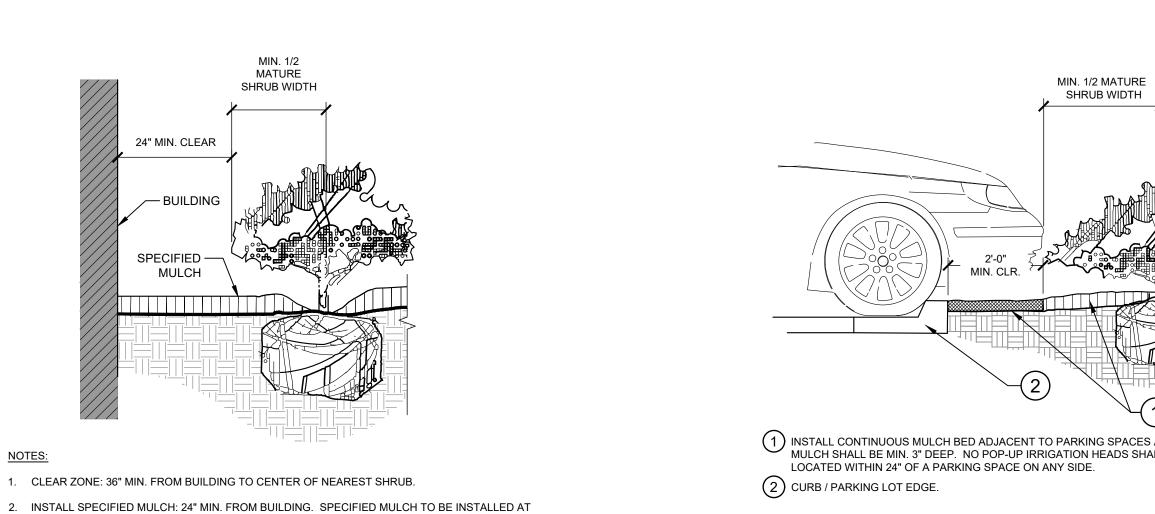
.) 3" MINIMUM OF HARDWOOD BARK MULCH

6' DIAMETER (MIN.) OR AS DIRECTED BY

MANUFACTURER'S RECOMMENDATIONS.

AS SPECIFIED. WHERE TREES ARE PLACED

IN SOD, MULCH RING FOR TREES SHALL BE



BEST FACE OF SHRUB/

REFER TO PLANT

AT BED EDGE.

3X ROOT BALL WIDTH

MINIMUM

SHRUB/GROUNDCOVER PLANTING

REPRESENTATIVE.

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT

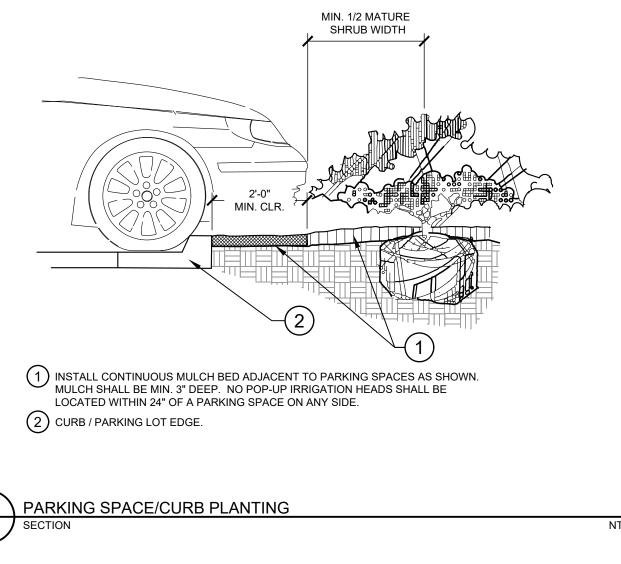
C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS

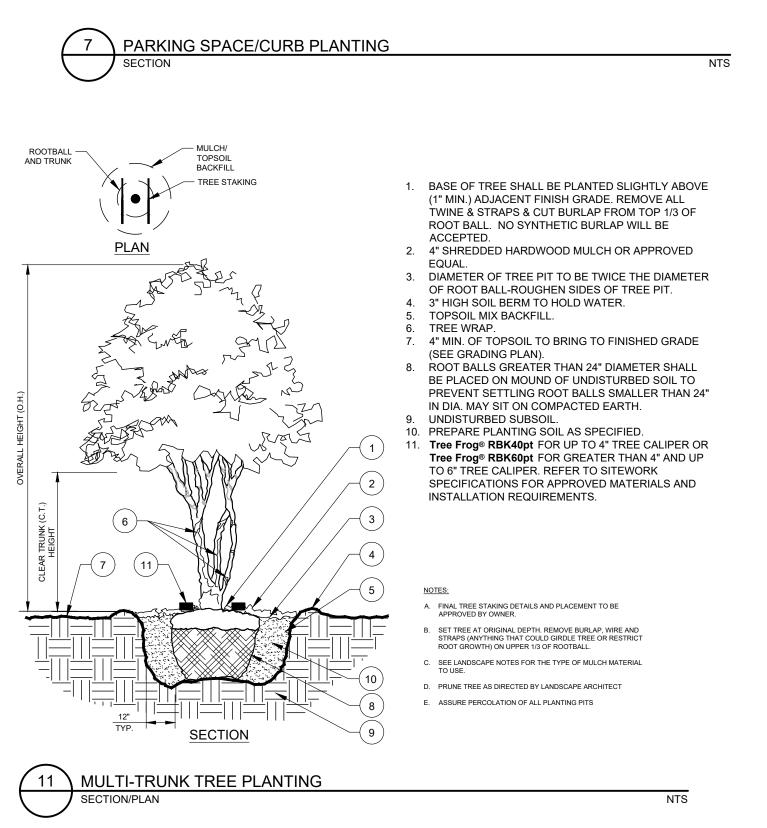
GROUNDCOVER TO FACE

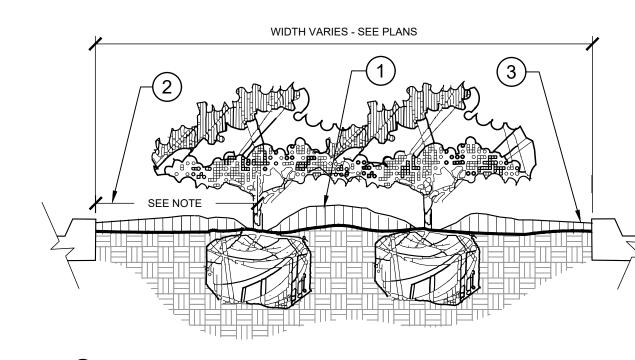
FRONT OF PLANTING BED.

SCHEDULE FOR SPACING.

MAINTAIN 12" DEAD ZONE







(1) CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).

2) CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF, SEE PLANS. (3) 2" MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

1) TOP OF SHRUB ROOTBALLS TO

OF ROOTBALL.

MASS/HEIGHT.

(3) 3" MULCH LAYER AS

(4) EXCAVATE ENTIRE BED

5 FINISHED GRADE (SEE GRADING PLAN).

MIX AS SPECIFIED.

(7) SCARIFY OF PLANTING PIT

(9) UNDISTURBED NATIVE SOIL.

(10) FERTILIZER TABLETS (MAX 3"

SIDES AND BOTTOM.

(8) 4" HIGH BERM FIRMLY

COMPACTED.

(6) PREPARED PLANTING SOIL AS

SPECIFIED. (SEE LANDSCAPE NOTES) NOTE: WHEN GROUND-

COVERS AND SHRUBS USED IN

AMENDED WITH PLANTING SOIL

MASSES, ENTIRE BED TO BE

SPECIFIED.

2) PRUNE ALL SHRUBS TO

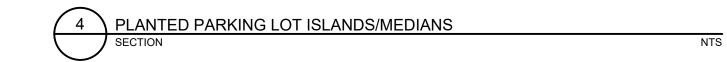
ACHIEVE A UNIFORM

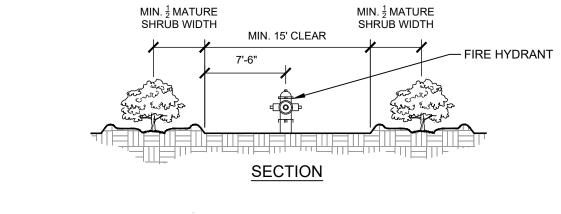
BE PLANTED 1" - 2" HIGH WITH

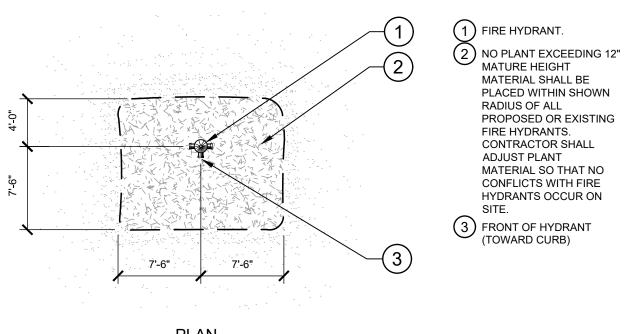
SOIL MOUNDING UP TO THE TOP

SPECIFIED FOR GROUNDCOVER

- A. EXCAVATE A CONTINUOUS 24" DEEP PIT (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.
- B. PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).
- C. ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR







SHRUB PLANTING AT FIRE HYDRANT

Know what's below. Call before you dig.

66466

SDP-23-09

SHEET NUMBER

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

- 1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED
- 2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE

B. PROTECTION OF EXISTING STRUCTURES

- I. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES ACCORDING TO ALL REGULATORY AGENCY'S STANDARDS THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF DOT DESIGN STANDARDS, INDEX 600. IF A DIRECT APPLICATION OF INDEX 600 IS PROPOSED, THE CONTRACTOR SHALL SUBMIT IN WRITING A STATEMENT INDICATING THE STANDARD INDEX AND PAGE NUMBER NO LESS THAN 10 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION. WHEN A DIRECT APPLICATION OF DOT STANDARD INDEX 600 IS NOT ACCEPTABLE A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A PROFESSIONAL ENGINEER WHO HAS SUCCESSFULLY COMPLETED ADVANCED TRAINING IN MAINTENANCE OF TRAFFIC, AS DEFINED BY DOT FOR APPROVAL BY THE COUNTY ENGINEER'S REPRESENTATIVE.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR; REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UNDERGROUND FACILITIES DURING CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION

C. PROTECTION OF EXISTING PLANT MATERIALS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC... THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED ON SITE. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF THREE HUNDRED DOLLARS (\$300) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.

D. MATERIALS

1. GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL SAMPLE SIZE

MULCH ONE (1) CUBIC FOOT

TOPSOIL MIX ONE (1) CUBIC FOOT

PLANTS ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)

2. PLANT MATERIALS

- a. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. ALL PLANTS SHALL BE DETERMINED BY THE STATE DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE
- b. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.
- c. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

- 1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW:
- 2. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.
- a. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 5.5 AND 7.0.
- b. <u>SAND</u> SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.
- 2. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

F. WATE

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.... IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

* WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

* FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

- MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). MULCH SHALL BE "FLORIMULCH," EUCALYPTUS MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE.
- 2. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT (6' MINIMUM) PLANTED UNDER THIS CONTRACT.

I. DIGGING AND HANDLING

- 1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
- 2. BALLED AND BURLAPPED (B&B), AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS

CRACKED OR BROKEN. PLANTS SHALL NOT BE HANDLED BY STEMS.

- 3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.
- 4. PROTECTION OF PALMS: ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.
- EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.

CONTAINER GROWN STOCK

- 1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
- 3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
- 4. RPG= "ROOTS PLUS GROWER" CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.

. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

I NATIVE STOC

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

N. FINE GRADIN

- FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY

INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE.

O. PLANTING PROCEDURES

- 1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
- VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL STATE OFFICIAL (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- 3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION PLANTING DETAIL.
- 4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.
- 5. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES
- 6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
- ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACK FILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.
- 8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
- 9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
- 10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
- 11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.
- 12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
- PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY CERTIFIED ARBORIST, IN ACCORDANCE WITH ANSI A-300.

 14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. MATERIALS INSTALLED SHALL MEET MINIMUM SPECIMEN REQUIREMENTS OR QUANTITIES SHOW ON PLANS, WHICHEVER IS GREATER. CULTIVATE

13. TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE

SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE

ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" THE PLANTING SOIL MIXTURE AS SPECIFIED IN

ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.

16. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S

PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.

AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

- 2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (3) INCHES, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
- 3. PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA

- a. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- b. THE SOD SHALL BE CERTIFIED TO MEET STATE REQUIREMENTS & SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- c. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
- 5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.
- 6. LAWN MAINTENANCE
- a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).
- b. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.
- Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

S. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

T. WARRANTY

- I. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
- 2. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER.
- 3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

what's below.

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 919-677-2000 FAX: 9
421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 2

VOTES

SCALE AS SHOW DESIGNED BY JA

LANDSCAPE

ROLESVILLE
PREPARED FOR

SHEET NUMBER

SDP-23-09

TYPICAL LANDSCAPE SPECIFICATIONS

Statistics Description Symbol Avg Max Mln Scooters Coffee Lot + 0.8 fc 22.9 fc 0.0 fc 10ft Beyond Property Line + 0.0 fc 0.3 fc 0.0 fc	Schedule Symbol Label QTY Manufacturer Catalog Description Number Lamp Output Power Lamps Output Power Number Lamps Output Power Number Lamps Output Power Number Lamps Output Power Number Number Lamps Output Power Number Number	A/24/24
	EM2 1 WESTGATE MFG DBEL-ACEM EM Mode DBEL-ACEM EM Mode SINK, ONE CIRCUIT BOARD WITH TWO LEDS, 2-PIECE MOLDED SPECULAR PLASTIC REFLECTOR WITH VERTICALLY RIBBED SECTION BELOW AND BEHIND LEDS, CLEAR PRISMATIC PLASTIC LENS IN CAST BLACK PAINTED METAL FACEPLATE. LENS PRISMS IN. SIGN C - Front Smiley Face 1 914 1 2.8986'	UEATH ST. LOUIS
	SIGN E - Logo SIGN I - Menu board Sign K - 2 1 162 1 2.8986	OBERT L. (GINEER 5 CRAIG ROAD, SUITE 300 (314) 415-2400 FAX (314)
THESE F6 VALUES ARE 10'-0" BEYOND PROPERTY LINE +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.	Side Wall Sign	SCOOFFEE P
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	EXTERIOR SITE PHOTOMETRIC PLAN 295 S' INC.
+0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0	2.5	PROJECT ADDRESS: 306 S. MAIN ST. ROLESVILLE, NC 27571 FRANCHISEE & STORE NUMBER SCOOTER'S COFFEE # P&S JAVA ENTERPRISE
+0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0	+0.7 $+0.8$ $+0.1$	KIOSK PROTOTYPE: 4.1 PROTOTYPE MAY 2022 ISSUE DATE: 02/28/2024 PROJECT NO. 230522 DRAWN BY: JDK
+0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0	MONUMENT SIGN @ 3'-0"	CHECKED BY: SAH SHEET NO. E3.1



12, 18 and 26 Watt SLIM wall packs are ultra efficient and deliver impressive light distribution with a compact low-profile design that's super easy to install as a downlight or

_ /			
	Project:	Туре:	
	Prepared By:	Date:	

Driver Info 120V 0.13A Color Temp 3000K (Warm) 0.08A Color Accuracy 72 CRI 0.07A L70 Lifespan 100,000 Hours 277V 0.06A Lumens 2,006 lm 133.7 Efficacy Input Watts 15W

3-step MacAdam Ellipse binning to achieve

LED color temperature is warrantied to shift no more

RAB's range of Correlated Color Temperature follows

the guidelines for the American National Standard

for Specifications for the Chromaticity of Solid State

Lighting (SSL) Products, ANSI C78.377-2017.

100,000-Hour LED lifespan based on IES LM-80

results and TM-21 calculations

than 200K in color temperature over a 5-year period

consistent fixture-to-fixture color

Color Stability:

Performance

Technical Specifications					
Compliance		Electrical			
UL Listed:		Driver:			
Suitable for wet locations. Suitable within 1.2m (4ft) of the ground.	e for mounting	Constant Current, Class 2, 120-277V, 50-60Hz, 120V: 0.13A, 208V: 0.08A, 240V: 0.07A, 277V: 0.06A			

Weight; 4.1 lbs

Dimming Driver: IP Rating: Driver includes dimming control wiring for 0-10V Ingress protection rating of IP66 for dust and water dimming systems. Requires separate 0-10V DC ADA Compliant: dimming circuit. Dims down to 10%. SLIM™ is ADA Compliant THD: IESNA LM-79 & LM-80 Testing:

5.19% at 120V, 8.55% at 277V RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80. 99.4% at 120V, 94% at 277V DLC Listed: LED Characteristics This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that Long-life, high-efficacy, surface-mount LEDs

requirements. DLC Product Code: P0000171L

qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1

Wattage Equivalency: Equivalent to 70W Metal Halide Construction Cold Weather Starting:

SLIM12Y

Performance

for easy installation

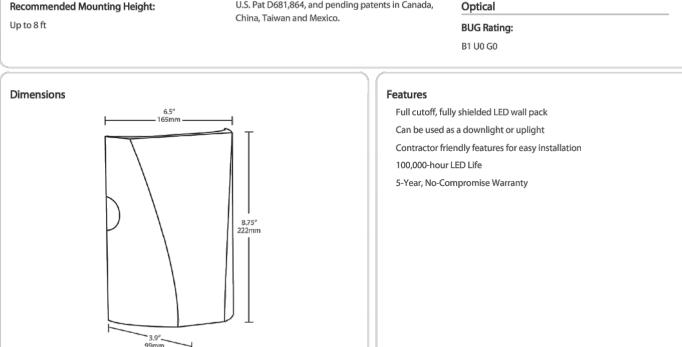
Page 1 of 2

The minimum starting temperature is -40°C (-40°F) Maximum Ambient Temperature: Suitable for use in up to 40°C (104°F) Precision die-cast aluminum housing Mounting: Heavy-duty mounting bracket with hinged housing

Technical Specifications (continued)

five (5) years from the date of delivery to the end High-temperature silicone user, including coverage of light output, color stability, driver performance and fixture finish. RAB's Formulated for high durability and long-lasting color Green Technology: Mercury and UV free. RoHS-compliant components.

U.S. Pat D681,864, and pending patents in Canada, **BUG Rating:**



Family	Wattage	Color Temp	Finish	Driver	Options
SLIM	12	Υ			
	12 = 12W 18 = 18W 26 = 26W	Blank = 5000K Cool N = 4000K Neutral Y = 3000K Warm	Blank = Bronze W = White	Blank = 120-277V, 0-10V Dimming /D10 = 120-277V, 0-10V Dimming	Blank = No Option /PC = 120V Button /PC2 = 277V Button /LC = Lightcloud® Controller

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HID Replacement Range: Tempered glass lens Replaces 70W Metal Halide Reflector: Warranty: RAB warrants that our LED products will be free from defects in materials and workmanship for a period of

Specular thermoplastic

The design of the SLIM™ is protected by patents in

warranty is subject to all terms and conditions found at rablighting.com/warranty. Buy American Act Compliance: RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA), Please contact customer service to request a quote for the product to be made BAA compliant.

RAB

ADJUSTABLE PRO SERIES

The 80+ CRI Adjustable Series offers a wide range of color temps to enhance the places people live, work and play. Create different ambiances using 3000K - 5000K

> Adjust intensity independently · Smooth, Flicker-free Dimming

ORDER CODE	ENV	LEDS/M		VOLTAGE		
NF - AS -		120	-	24V		
NF ADJUSTABLE	0 = IP65	120		24V		
	W = IP68*					
Physical						
Operating Temp	-15° to 140°	°F (-25° to 6	50°	C)		

IP65 (Dust/splash proof) Environment IP68 (Water/chemical resistant) 3M Adhesive | Clips | Channels Cut Length Varies by series

Quality Assurance Lumen Maintenance 50,000 Hrs 2 years CCT Binning 3-step MacAdam Certifications

Electrical	
Voltage	24V
Wire Size	20 AWG. 2 Wire
Lead	Default: 120 Inch IP65: 2 Inch Minimum IP68: 3 Inch Minimum Quick Connect: 3 - 120 Inch
Jumper	IP65 & IP68: 3 Inch Minimum
Dimming	MLV 0-10V S3i Control Series

imensions			
Cut Mark: 3.93 in		7.85 mm	
	Пап		папі

*Special Order requires lead-time of 7 - 9 weeks. MOQ LED strip 328 feet | MOQ Channel 150 pcs (2M/pc) 800.595.6302 | novaflexled.com | 01

AS PRO SERIES CHANNEL OPTIONS

Angled 3030 - CR

ngled 3030 - SQ

Bendable 1806

F-CH-3916-2M

Mud-In 6214

NF-CH-6214-2M

Recessed 4540

Recessed 6017

NF-CH-6017-2M

NF-CH-4540-2M

NF-CH-1806-2M

F-CH-3030-C/CLEAR/CR-2M White*

NF-CH-3030-C/S0FT/CR-2M Black*

NF-CH-3030-C/CLEAR/SQ-2M White*

NF-CH-3030-C/S0FT/SQ-2M Black*

White*

White*

White*

Black*

White*

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Black*

ngled 1919U



		ССТ	CRI	Lumens/ ft	Efficacy (lm/w)	Power (w/ft)	Max Run		
120		3000K - 5000K	80+	90 - 184	30 - 61	1.5 - 3	16.4 ft		

Lumens have a tolerance of +/- 10%.

Build the LED order code
Select channel
Select power and controls
23

Step 4 Select accessories Step 5 Contact your Agent or Nova Flex

> Universal 2217 Standard IP65 Rugged IP68 Suspended 3030 RN

*Special Order requires lead-time of 7 - 9 weeks. MOQ LED strip 328 feet | MOQ Channel 150 pcs (2M/pc) 800.595.6302 | novaflexled.com | 02

AS PRO SERIES CHANNEL OPTIONS

Surface 1707 - 30°

Surface 1707 - 60°

Surface 3525

Surface 4517

NF-CH-4517-2M

NF-CH-1707-C/CLEAR/60-2M

NF-CH-1707-C/CLEAR/30-2M

Silver White*

White*

White*

White*

Black

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SPEC SHEET

800.595.6302 | novaflexled.com | 03

White* SPEC SHEET Black* Silver White* SPEC SHEET Height with Lens 0.70"

Channel-less 2913 NF-CH-2913-C/SOFT-2M	N/A	(SF)	0.56° 1.10°	SPEC SHEET

DOTTING w	ith soft lens	PRO-0-120	PRO-W-120
Angled	1919U	1	Х
	3030 SQ/CR	0	0
Bendable	1806	3	Х
	3916	1	1
Mud-In	6214	1	1
Recessed	2515	0	Х
	4540	0	0
	6017	1	1
Universal	2217	1	1
Suspended	3030 RN	0	0
Surface	1707	3	Х
	1813	2	2
	3525	0	0
	4517	1	1

0 x

*Special Order requires lead-time of 7 - 9 weeks. MOQ LED strip 328 feet | MOQ Channel 150 pcs (2M/pc)

Channel-less 2913

NOVA*FLEX* AS PRO SERIES DRIVER OPTIONS

	Product Image	Product Code	Wattage	Current/Voltage	Safety	Downloads
		NF-PS-UNV-60W-24V Dim 0-10V, MLV, ELV TRIAC View spec sheet for all options	60W	Output Current: 2.5A Input Voltage: 100-277 VAC	UL8750 Class 2 Type HL FCC	SPEC SHEET
n / Non-Dim		NF-PS-UNV-96W-24V Dim 0-10V, MLV, ELV TRIAC View spec sheet for all options	96W	Output Current: 4A Input Voltage: 100-277 VAC	UL8750 Class 2 Type HL FCC	SPEC SHEET
Universal Dim / Non-Dim		NF-PS-UNV-288W-24V Dim 0-10V, MLV, ELV TRIAC View spec sheet for all options	288W	Output Current: 3x4A Input Voltage: 100-277 VAC	UL8750 Class 2 Type HL FCC	SPEC SHEET
		NF-PS-UNV-384W-24V Dim 0-10V, MLV, ELV TRIAC View spec sheet for all options	384W	Output Current: 4x4A Input Voltage: 100-277 VAC	UL8750 Class 2 Type HL FCC	SPEC SHEET
ly.		NF-PS-MAXX-30W-24V-0/10V	30W	Output Current: 1.25A Input Voltage: 100-277 VAC	UL8750 Class 2 Type HL FCC	SPEC SHEET
- 10V Dim Only		NF-PS-MAXX-288W-24V-0/10V	288W	Output Current: 20A Input Voltage: 100-277 VAC	UL 7850 UL1310	SPEC SHEET
0		NF-PS-96W-24V-0/10V	96W	Output Current: 0.96A Max Input Voltage: 120-277 VAC	UL8750 Class 2	SPEC SHEET
ron		NF-PS-L3DA-40W-24V-KL Lutron Hi-Lume 1% EcoSystem/3-Wire 24V	40W	Output Current: 3.3A Input Voltage: 120-277 VAC	UL8750 Class 2 Type TL	SPEC SHEET

Input Voltage: 120-277VAC CSA250.13-14 SPEC SHEET

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AS PRO SERIES CONTROL OPTIONS

Product Image Product Code Required to Pair: S3i-WR-1009 S3i Touch Adjustable Zones: 4 NF-S3i-WR-1009 SPEC SHEET Power Consumption: 200ma NF-S3i-TP-AS Dimming Function: 0 - 100% Required to Pair: S3i-WR-1009 S3i Hand-held Adjustable Zones: 6 SPEC SHEET NF-S3i-WR-1009 Dimming Function: 0 - 100% NF-S3i-WC-AS Battery Operated: 3 AAA Required to Pair: S3i-WR-1009 S3i Push Button Wall Zones: 1 SPEC SHEET Mount Adjustable NF-S3i-WR-1009 Dimming Function: 0 - 100% NF-S3i-PB-AS Battery Operated: 3V (CR2025)

Output Power: 240 - 720w S3i Wireless Receiver
NF-S3i-WR-1009 Output Current: 4 CH. 5A/CH SPEC SHEET NF-A-UNV Input: 12 - 36V DC Dimming: 0 - 100%

Input Voltage: 12 - 24V DC

Max Output Power: 480W LED DMX Max Load Current: 20A (5A/4CH) Decoder NF/SP-DMX-5A-4CH Short Circuit / Over Load Recover Auto Control Method: DMX512 RJ45

Universal Amplifier

NF-A-UNV

Input Voltage: 12 - 36V DC Input Signal: PWM Max Load Current: 20A (5A/4CH) Max Output Power: 240 - 720W

All Above Products

SPEC SHEET

Electronic Non-

Dimming Driver

AS PRO SERIES ACCESSORY OPTIONS

Height with Lens 0.69"

Height with Lens 0.58"

Height with Lens 0.69"

SPEC SHEET

SPEC SHEET

Hardwire to Female Available Lengths: **Quick Connect Adapter** 6in, 1ft, 2ft, 3ft, 4ft, 5ft, 6ft, & 10ft Hardwire to Male Available Lengths: **Quick Connect Adapter** 6in, 1ft, 2ft, 3ft, 4ft, 5ft, 6ft, 8ft & 10ft NF-C-M Male to Female Quick Connect Adapter Available Lengths: 3ft, 6ft &10ft NF-C-MF Y Cable Total Length: 20.00 in 2 Male, 1 Female NF-C-Y Y Cable 4 Male, 1 Female Total Length: 20.00 in NF-C-Y-4Y

Y Cable Total Length: 17.25 in 8 Male, 1 Female NF-C-Y-8Y Female Quick Connect to 1.5 x 0.5 x 0.5 in Hardwire Adapter NF-C-F/HW Male Quick Connect to 1.5 x 0.5 x 0.5 in

Hard Clips 1.125 x 0.25 in 20 per pack Clips add 0.125" to height of lights NF-CLIPS-H Soft Clips 1.125 x 0.25 in 20 per pack Clips add 0.125" to height of lights

> FOR MORE INFORMATION

Hardwire Adapter NF-C-M/HW

1.13 x 1.00 in

SHEET NO. <u>/2</u>______

SAH

THEM

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TITLE:

PROJECT ADDRESS: 306 S. MAIN ST. ROLESVILLE, NC 27571

KIOSK PROTOTYPE:

4.1 PROTOTYPE MAY 2022

ISSUE DATE:

02/28/2024

PROJECT NO.

CHECKED BY:

230522 **DRAWN BY:**

ELECTRICAL

EXTERIOR LIGHTING

CUTSHEETS

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #562
P&S JAVA ENTERPRISES, INC

*Special Order requires lead-time of 7 - 9 weeks. MOQ LED strip 328 feet | MOQ Channel 150 pcs (2M/pc)

*Special Order requires lead-time of 7 - 9 weeks. MOQ LED strip 328 feet | MOQ Channel 150 pcs (2M/pc)

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*Special Order requires lead-time of 7 - 9 weeks. MOQ LED strip 328 feet | MOQ Channel 150 pcs (2M/pc)

CLICK HERE

Universal Adjustable Clip

NF-CH-UNV-CLIPS/ADJ

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NF-PS-L3DO-96W-24V

24V Constant Voltage

Lutron Hi-Lume Premier 0.1% EcoSystem/3-Wire

PLASKOLITE

Light Transmission Specification for Standard Colors

Clear A00	Bronze K09	
Gray I30	Dark Gray 135	
Green H35	Black L10	
White B27	White B48	
White B59 (Gauges 0.118" and below)	White B54 (Gauges above 0.118")	

For colors that list a thickness of ALL, the light transmission will be the same for all gauges.

Color	Thickness (in)	Target LT Value	LT Control Range	Transparency
Clear A00	≤.050"	89%	Minimum LT	Transparen
	.060"	88%	Minimum LT	
	.093"	87%	Minimum LT	
	.118"	86%	Minimum LT	
	.177"	85%	Minimum LT	
	.236"	84%	Minimum LT	
	.375"	80%	Minimum LT	
	.500"	77%	Minimum LT	
Bronze K09	ALL	50%	+/- 5%	Transparer
Gray I30	ALL	50%	+/- 5%	Transparer
Gray I35	ALL	18%	+/- 3%	Transparer
Green H35	≤.118"	78%	+/- 4%	Transparer
	.177"	75%	+/- 4%	
	.236"500"	70%	+/- 4%	
White B27	.150"	27%	+/- 3%	Translucen
White B48	.150"	40%	+/- 2%	Translucen
White B54	<u><.236</u> "	27%	+/- 2%	Translucer
	<u>≥</u> .236"	23%	+/- 3%	
White B59	.060"	43%	+/- 3%	Translucen
	.080"	43%	+/- 3%	
	.093"	36%	+/- 3%	
	.100"	32%	+/- 3%	
	.118"/.125"	27%	+/- 2%	
Black L10	ALL	0%	-	Opaque

Components

102018

SKU	Model	Details	Color	Order unit	Pkg. Quantity	Modules per strip
93118745G	GEMX2471-W1S	Tetra® MAX 24V 7100K	White	Box	5 Strips/Box	30 modules/strip (20 ft/strip)
93118746G	GEMX2465-W1S	Tetra® MAX 24V 6500K	Warm White	Box	5 Strips/Box	30 modules/strip (20 ft/strip)
93118747G	GEMX2457-W1S	Tetra® MAX 24V 5700K	Warm White	Box	5 Strips/Box	30 modules/strip (20 ft/strip)
93118748G	GEMX2450-W1S	Tetra® MAX 24V 5000K	Warm White	Box	5 Strips/Box	30 modules/strip (20 ft/strip)
93118749G	GEMX2441-W1S	Tetra® MAX 24V 4100K	Warm White	Box	5 Strips/Box	30 modules/strip (20 ft/strip)
93118750G	GEMX2432-W1S	Tetra® MAX 24V 3200K	Warm White	Box	5 Strips/Box	30 modules/strip (20 ft/strip)
93069935G	GEMX24RD-W1	Tetra® MAX colors 24V – 625 nm	Red	Box	5 Strips/Box	30 modules/strip (20 ft/strip)
93070026	GEMXH24RD-W1	Tetra® MAX colors 24V HO – 625 nm	Red	Box	5 Strips/Box	30 modules/strip (20 ft/strip)
93070027G	GEMX24GL-W1	Tetra® MAX colors 24V – 530 nm	Green	Вох	5 Strips/Box	30 modules/strip (20 ft/strip)
93070028G	GEMX24BL-W1	Tetra® MAX colors 24V – 470 nm	Blue	Box	5 Strips/Box	30 modules/strip (20 ft/strip)
93070029	GEMX24YG-W1	Tetra® MAX colors 24V – 589 nm	Amber	Вох	5 Strips/Box	30 modules/strip (20 ft/strip)

Technical Specifications

Model	Wavelength/ CCT	Typical Brightness Lumens/ module	Typical Brightness Lumens/Ft (Lumens/m)	Energy Consumption Module Wattage	Energy Consumption System Wattage	100W GLX Power Supply Loading	100W GLX2/TT Power Supply Loading	Viewing Angle
GEMX2471-W1S	7100K	100	150 (492)	0.62 W/module	0.73 W/module	87 ft (26.5 m)	92.6 ft (28.2 m)	175°
GEMX2465-W1S	6500K	100	150 (492)	0.62 W/module	0.73 W/module	87 ft (26.5 m)	92.6 ft (28.2 m)	175°
GEMX2457-W1S	5700K	100	150 (492)	0.62 W/module	0.73 W/module	87 ft (26.5 m)	92.6 ft (28.2 m)	175°
GEMX2450-W1S	5000K	100	150 (492)	0.62 W/module	0.73 W/module	87 ft (26.5 m)	92.6 ft (28.2 m)	175°
GEMX2441-W1S	4100K	100	150 (492)	0.62 W/module	0.73 W/module	87 ft (26.5 m)	92.6 ft (28.2 m)	175°
GEMX2432-W1S	3200K	90	135 (443)	0.62 W/module	0.73 W/module	87 ft (26.5 m)	92.6 ft (28.2 m)	175°
GEMX24RD-W1	625nm	20	30 (98)	0.46 W/module	0.54 W/module	120 ft (36.5 m)	126.6 ft (38.5 m)	175°
GEMXH24RD-W1	625nm	32	48 (158)	0.74 W/module	0.87 W/module	73 ft (22.3 m)	77.3 ft (23.5 m)	175°
GEMX24GL-W1	530nm	44	66 (217)	0.77 W/module	0.91 W/module	71 ft (21.7 m)	75.3 ft (22.9 m)	175°
GEMX24BL-W1	470nm	15	23 (74)	0.70 W/module	0.82 W/module	79 ft (23.9 m)	82.6 (25.1 m)	175°
GEMX24YG-W1	589nm	14	23 (74)	0.38 W/module	0.45 W/module	140 ft (42.6 m)	150.6 ft (45.9 m)	175°

Additional Specifications

	Whites			Colors			
Dimmable	Yes (with dimmable power	Yes (with dimmable power supply)			Yes (with dimmable power supply)		
LEDs/Module	4	4 2					
LEDs/ft (LEDs/m)	6 (19.7)			3 (9.8)			
Modules/ ft. (Modules/m)	1.5 (4.9)			1.5 (4.9)			
Module Dimensions (h x l x w)				0.45 in x 3.45 in x 0.63 in (11.41 mm x 87.6 mm x 16.1 mm)			
Cutting Resolution	Cut on wire between eve	Cut on wire between every module					
Power Supply	GEPS24-25-NA Input: 100-305VAC; Output: 24VDC GEPS24D-80U Input: 90-305VAC; Output: 24VDC GEPS24D-80U Input: 108-305VAC; Output: 24VDC GEPS24-100U Input: 108-305VAC; Output: 24VDC						
		18 AWG/0.82 mm² Supply Wire	16 AWG/1.31 mm² Supply Wire	m	AWG/2.08 nm² upply Wire	12 AWG/3.31 mm² Supply Wire	
	25W Power Supply	120 ft./36.6 m	1	1		1	
Maximum Supply Wire Limits	80W Power Supply	20 ft./6.1 m	25 ft./7.6 m	3	5 ft./10.6 m	40 ft./12.1 m	
	100W Power Supply	20 ft./6.1 m	25 ft./7.6 m	3	5 ft./10.6 m	40 ft./12.1 m	
	200W Power Supply	20 ft./6.1 m	25 ft./7.6 m	3	5 ft./10.6 m	40 ft./12.1 m	
	300W Power Supply	20 ft./6.1 m	25 ft./7.6 m	3	5 ft./10.6 m	40 ft./12.1 m	
Operating Environment	-40 °C to +60 °C (-40 °F	to +140 °F)				*	
Warranty	Limited system warranty	of up to ten (10) years					
System Certifications	UL Recognized (C-US) #E	219167, UL Classified (C	-US) #E229508,	, CE, ROHS •	IP66 rated: for dr	ry, damp or wet location.	

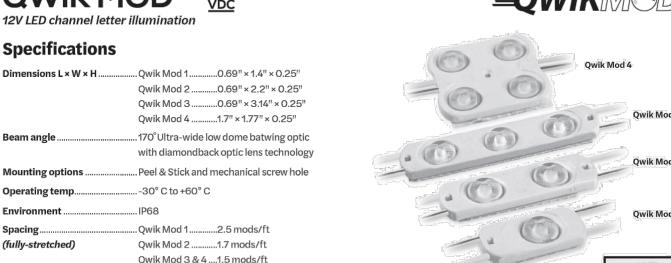
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(Rev 11/15/23) SIGN254

QWIK MOD™ 12 VDC 12V LED channel letter illumination

Specifications



···s	QWIN WOO THINK	LIO IIIOGO/IE	and a	The state of the s	0
-stretched)	Qwik Mod 2	1.7 mods/ft	E		
	Qwik Mod 3 & 4	1.5 mods/ft			
color	.Whites	White solid (+) / White/Black stripe (-)*			158
	Colors	Gray, Red, Green, or Blue solid (+) / White/Black	stripe (-)	Qwik Release Tab	-
anty	.10-Year Product /	5-year Limited Labor		reduces labor time	

Product	Max. mods (series)	CCT/Wavelength	SKU	Intensity	Efficacy	Packaging	UL number	
		7100 K	M-QMSX0-71				PL-QM1-TW110-P	
Qwik Mod 1	75 mods (30 ft)	5000 K	M-QMSX0-50	47.2 lm/mod (118 lm/ft)	118 lm/W	Mods per bag: 150 (60 ft) Mods per case: 1500 (600 ft)	PL-QM1-NW110-P	
IVIOU I	(3011)	4100 K [†]	M-QMSX0-41		IIII/ VV	Wods per case. 1500 (000 ft)	PL-QM1-MW110-F	
		7100 K	M-QMDX0-71				PL-QM2-TW150-F	
		5700 K [†]	M-QMDX0-57				PL-QM2-WN150-	
		5000 K	M-QMDX0-50				PL-QM2-NW150-	
		4100 K [†]	M-QMDX0-41	94.1 lm/mod (160 lm/ft)	118 lm/W		PL-QM2-MW150-	
		3500 K [†]	M-QMDX0-35				PL-QM2-WW150-	
		3000 K	M-QMDX0-30				PL-QM2-DW150-	
Qwik Mod 2	38 mods (22.35 ft)	2700 K	M-QMDX0-27			Mods per bag: 76 (44.7 ft) Mods per case: 912 (536.52 ft)	PL-QM2-IW150-	
	(22.0010)	(==::::,	Red (625 nm)	M-QMDX0-RD	22 lm/mod (37.4 lm/ft)	27.5 lm/W	I wood par adder a 12 (addide 14)	PL-QM2-RD37-F
		Amber (589 nm)	M-QMDX0-AM	20.4 lm/mod (34.68 lm/ft)	22.93 lm/W		PL-QM2-AM150-	
		Red-Orange (613 nm)	M-QMDX0-RO	29.97 lm/mod (50.95 lm/ft)	34 lm/W		PL-QM2-RO150-	
		Orange (617 nm)	M-QMDX0-OR	25.66 lm/mod (43.62 lm/ft)	29.68 lm/W		PL-QM2-OR37-I	
		Green (525 nm)	M-QMDX0-GR	44 lm/mod (75 lm/ft)	53.51 lm/W		PL-QM2-GR75-F	
		Blue (460 nm)	M-QMDX0-BL	10 lm/mod (17 lm/ft)	12.31 lm/W		PL-QM2-BL17-P	
		7100 K	M-QMTX0-71		114		PL-QM3-TW200-	
		5000 K M-QMTX0	M-QMTX0-50	M-QMTX0-50 136.7 lm/mod (205 lm/ft)			PL-QM3-NW200	
		4100 K [†]	M-QMTX0-41		lm/W		PL-QM3-MW200	
	05 1	Red (625 nm)	M-QMTX0-RD	34 lm/mod (51 lm/ft)	28.33 lm/W	50 (00 0 %)	PL-QM3-RD51-F	
Qwik Mod 3	25 mods (16.67 ft)	Amber (593 nm)	M-QMTXO-AM	33.44 lm/mod (50.16 lm/ft)	26.42 lm/W	Mods per bag: 50 (33.3 ft) Mods per case: 750 (500 ft)	PL-QM3-AM200	
	(1010710)	Red-Orange (610 nm)	M-QMTXO-RO	67.86 lm/mod (101.78 lm/ft)	52.5 lm/W		PL-QM3-R0200-	
		Orange (612 nm)	M-QMTX0-OR	63.77 lm/mod (95.66 lm/ft)	50.06 lm/W		PL-QM3-OR200-	
		Green (525 nm)	M-QMTXO-GR	86 lm/mod (129 lm/ft)	68.61 lm/W		PL-QM3-GR129-	
		Blue (460 nm)	M-QMTX0-BL	18 lm/mod (27 lm/ft)	14.81 lm/W		PL-QM3-BL27-F	
	40	7100 K	M-QMQX0-71		440	N. I	PL-QM4-TW260-	
Qwik Mod 4	19 mods (12.67 ft)	5000 K	M-QMQX0-50	180 lm/mod (270 lm/ft)	113 lm/W	Mods per bag: 38 (25.3 ft) Mods per case: 912 (608 ft)	PL-QM4-NW260-	
	(12.07 14)	4100 K [†]	M-QMQX0-41			The same of the party	PL-QM4-MW260	





Components

www.plaskolite.com

SKU	Model	Details	Color	Strip Quantity	Box Quantity
93128533G	GEDS71-3	Tetra Snap DS 7100K	White	32 modules per strip. 1 strip/bag	7 bags (224 modules) per box
93128534G	GEDS65-3	Tetra Snap DS 6500K	Warm White	32 modules per strip. 1 strip/bag	7 bags (224 modules) per box
93128535G	GEDS57-3	Tetra Snap DS 5700K	Warm White	32 modules per strip. 1 strip/bag	7 bags (224 modules) per box
93128546	GEDS50-3	Tetra Snap DS 5000K	Warm White	32 modules per strip. 1 strip/bag	7 bags (224 modules) per box
93128547G	GED\$41-3	Tetra Snap DS 4100K	Warm White	32 modules per strip. 1 strip/bag	7 bags (224 modules) per box
93128548	GEDS32-3	Tetra Snap DS 3200K	Warm White	32 modules per strip. 1 strip/bag	7 bags (224 modules) per box

Technical Specifications

Model	Wavelength/CCT	Typical Brightness Lumens/ module	Typical Brightness Lumens/foot	Voltage	Leds/Module	Energy Consumption Module/system (W)	Power Supply Loading	Viewing Angle	
Tatra Enan DC	7100K, 6500K, 5700K, (5000K) 4100K	400	Regular output: 600 High output: 750 Ludicrous mode: 1000	24V 8		GLX: 32 modules (22.8 ft)/ 100W PS		17O°	
Tetra Snap DS	3200K	360	Regular output: 540 High output: 675 Ludicrous mode: 900	240	240		2.075.1	GLX2/TT: 33 modules (23.5 ft)/ 100W PS	170
	,		400 LUMEN / N	/ODULI	E TOTAL FO	R DOUBLE	SIDED MOD	ULE	

ONE SIDE = 200 LUMENS /MODULE Additional Specifications

additional speci	lications								
Dimmable	Yes (with dimmable power supply)								
Cutting Resolution	Cut on wire between every	module							
Module Spacing	1.4 modules/foot								
Extrusion Spacing	High output: 1.9 modules/fo	Regular output: 1.5 modules/foot High output: 1.9 modules/foot Ludicrous mode: 2.5 modules/foot							
Power Supply	Tetra 24V DC	Tetra 24V DC							
		18 AWG/0.82 mm² Supply Wire	16 AWG/1.31 mm² Supply Wire	14 AWG/2.08 mm² Supply Wire	12 AWG/3.31 mm² Supply Wire				
	25W Power Supply	120 ft./36.6 m	1	1	1				
Maximum Supply Wire Limits	80W Power Supply	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12,1 m				
	100W Power Supply	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12.1 m				
	200W Power Supply	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12,1 m				
	300W Power Supply	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12,1 m				
Operating Environment	-40 °C to +60 °C (-40 °F to	+140 °F)							
Module Dimensions (L x W x H)	3.35" x 1.69" x 0.52" (85 mm x 42.5 mm x 13.2 mm)								
Warranty	Limited system warranty of	up to ten (10) years							
System Certifications	UL Recognized (c-us), UL Cl	assified (c-us), CE, R	OHS, IP66, UL Damp R	ated					

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(Rev 11/15/23) SIGN274

Components

SKU	Description	Package quantity
GEBI71-2	Tetra EdgeStrip 7100K	32 Modules
GEBI50-2	Tetra EdgeStrip 5000K	32 Modules
GEBI41-2	Tetra EdgeStrip 4100K	32 Modules
GEBI32-2	Tetra EdgeStrip 3200K	32 Modules
GEBIH71-2	Tetra EdgeStrip High Output 7100K	32 Modules
GEBIH50-2	Tetra EdgeStrip High Output 5000K	32 Modules
GEBIH41-2	Tetra EdgeStrip High Output 4100K	32 Modules
GEBIH32-2	Tetra EdgeStrip High Output 3200K	32 Modules
9409	18 AWG Supply Wire (0.82 mm²)	500 ft./spool (152.4 m)
191600041	22-14 AWG Twist-On Wire Connectors (0.33 – 2.08 mm²)	500/PK
192160004	18-14 AWG In-line Connectors (IDC) (0.82 - 2.08 mm²)	500/PK

Technical Specifications

Poduct	Wavelength/CCT	Typical Brightness Lumens/ module	LEDs per Module	Energy Consumption Module Wattage	Energy Consumption System Wattage	100W Power Supply Loading	Viewing Angle
Tetra EdgeStrip	<mark>"7100K,</mark> 5000K 4100K, 3200K"	"300 282"	7	2.52w/module	2.96w/module	36 Modules	27 x 80°
"Tetra Edgestrip High Output"	"7100K, 5000K 4100K, 3200K"	"550 500"	7	5.40w/module	6.17w/module	17 Modules	27 x 80°

Dimmable	Yes (with dimmable power supply)				
Cutting Resolution	Cut on wire between every module				
Power Supply	GEPS24-25-NA Input: 100-305VAC; Output: GEPS24D-80U Input: 90-305VAC; Output: 2 GEPS24-100U Input: 108-305VAC; Output: 2 GEPS24-200U Input: 90-305VAC; Output: 2 GEPS24-300U Input: 108-305VAC; Output: 2	4VDC 4VDC 4VDC			
	80W, 100W, 200W, 300W	20W		Supply Wire Gauge	
	20 ft. (6.1 m)	120 ft. (36.6 m)		18AWG/0.82 mm² supply wire - 9409	
Maximum Supply Wire Limits	25 ft. (7.6 m)	16AWG/1.31 mm² supply wire			
	35 ft. (10.6 m)			14AWG/2.08 mm² supply wire	
	40 ft. (12.1 m)			12AWG/3.31 mm² supply wire	
	Wiring to be installed in accordance with Ar	ticle 725 of the Na	tional Electric code	(NEC).	
Operating Environment	-40 °C to +60 °C (-40 °F to +140 °F)				
Module Dimensions (h x l x w)	Tetra EdgeStrip: Tetra EdgeStrip: 0.59" x 1.98" x 5.45" (14.98 x 50.29 x 138.43 mm) 0.76 x 1.98 x 5			itrip HO: : 5.45 (19.30 x 50.29 x 138.43 mm)	
Sign Dimensions	For best results, recommended sign depth is 3 inches (76 mm) or greater For best results, recommended sign depth is 5 inches (127 mm) or greater				
Warranty	Limited system warranty of up to ten (10) ye	ars			
System Certifications	UL Recognized #E219167, UL Classified #E229508, CE, C-tick IP66 rated: separate enclosure required, damp location rated				

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Components

SKU	Model	Details	Color	Order unit	Pkg. Quantity	Modules per strip
93053666	GEMM2471-W1	Tetra® miniMAX 24V 7100K	White	Box	5 Strips/Box	40 modules per strip (20 ft/strip
93118643	GEMM2465-W1	Tetra® miniMAX 24V 6500K	Warm White	Box	5 Strips/Box	40 modules per strip (20 ft/strip
93118644	GEMM2457-W1	Tetra® miniMAX 24V 5700K	Warm White	Box	5 Strips/Box	40 modules per strip (20 ft/stri
93053667	GEMM2450-W1	Tetra® miniMAX 24V 5000K	Warm White	Box	5 Strips/Box	40 modules per strip (20 ft/stri
93053668	GEMM2441-W1	Tetra® miniMAX 24V 4100K	Warm White	Box	5 Strips/Box	40 modules per strip (20 ft/stri
93053669	GEMM2432-W1	Tetra® miniMAX 24V 3200K	Warm White	Box	5 Strips/Box	40 modules per strip (20 ft/stri
93069932	GEMM24RD-W1	Tetra® miniMAX colors 24V - 625nm	Red	Box	5 Strips/Box	40 modules per strip (20 ft/stri
93069933	GEMM24GL-W1	Tetra® miniMAX colors 24V - 530nm	Green	Box	5 Strips/Box	40 modules per strip (20 ft/stri
93069934	GEMM24BL-W1	Tetra® miniMAX colors 24V - 470nm	Blue	Box	5 Strips/Box	40 modules per strip (20 ft/stri

Tachnical Specification

Technical	Specifi	cations	WF	IITE COFFE	E DRIVE -TH	IRU LETTEI	RS	
Model	Wavelength/ CCT	Typical Brightness Lumens/ module	Typical Brightness Lumens/Ft (Lumens/m)	Energy Consumption Module Wattage	Energy Consumption System Wattage	100W GLX Power Supply Loading	100W GLX2/ TT Power Supply Loading	Viewing Angle
GEMM2471-W1	7100K	55	110 (361)	0.35w/module	0.41w/module	110 ft (33.5 m)	118.5 ft (36.1 m)	175°
GEMM2465-W1	6500K	55	110 (361)	0.35w/module	0.41w/module	110 ft (33.5 m)	118.5 ft (36.1 m)	175°
GEMM2457-W1	5700K	55	110 (361)	0.35w/module	0.41w/module	110 ft (33.5 m)	118.5 ft (36.1 m)	175°
GEMM2450-W1	5000K	55	110 (361)	0.35w/module	0.41w/module	110 ft (33.5 m)	118.5 ft (36.1 m)	175°
GEMM2441-W1	4100K	55	110 (361)	0.35w/module	0.41w/module	110 ft (33.5 m)	118.5 ft (36.1 m)	175°
GEMM2432-W1	3200K	50	100 (328)	0.35w/module	0.41w/module	110 ft (33.5 m)	118.5 ft (36.1 m)	175°
GEMM24RD-W1	625nm	15	30 (98.4)	0.34w/module	0.40w/module	120 ft (36.5 m)	129 ft (39.3 m)	175°
GEMM24GL-W1	530nm	33	66 (216.5)	0.58w/module	0.68w/module	71 ft (21.7 m)	75 ft (22.8 m)	175°
GEMM24BL-W1	470nm	11	22 (72.2)	0.53w/module	0.62w/module	77.5 ft (23.6 m)	82 ft (25 m)	175°

RED SCOOTERS

LETTERS

Additional Specifications

	Whites			Colors			
Dimmable	Yes (with dimmable power	supply)		Yes (with	dimmable power sup	oply)	
LEDs/Module	4			2			
LEDs/ft (LEDs/m)	8 (26)			4 (13)			
Modules/ ft. (Modules/m)	2 (6.6)			2 (6.6)			
Module Dimensions (h x l x w)	0.41 in x 2.4 in x 0.54 in (10.46 mm x 61 mm x 13.6 m	0.41 in x 2.4 in x 0.54 in (10.46 mm x 61 mm x 13.6 mm)			2.47 in x 0.6 in x 62.7 mm x 15.3 mm	n)	
Cutting Resolution	Cut on wire between every	Cut on wire between every module					
Power Supply	GEPS24-25-NA Input: 100-305VAC; Output: 24VDC GEPS24D-80U Input: 90-305VAC; Output: 24VDC GEPS24-100U Input: 108-305VAC; Output: 24VDC				GEPS24-200U Input: 90-305VAC; Output: 24VDC GEPS24-300U Input: 108-305VAC; Output: 24VDC		
		18 AWG/0.82 MM² Supply Wire	16 AWG/1.31 MM² Supply Wire		14 AWG/2.08 MM² Supply Wire	12 AWG/3.31 MM² Supply Wire	
	25W Power Supply	120 ft./36.6 m	1		1	1	
Maximum Supply Wire Limits	80W Power Supply	20 ft./6.1 m	25 ft./7.6 m		35 ft./10.6 m	40 ft./12.1 m	
	100W Power Supply	20 ft./6.1 m	25 ft./7.6 m		35 ft./10.6 m	40 ft./12.1 m	
	200W Power Supply	20 ft./6.1 m	25 ft./7.6 m		35 ft./10.6 m	40 ft./12.1 m	
	300W Power Supply	20 ft./6.1 m	25 ft./7.6 m		35 ft./10.6 m	40 ft./12.1 m	
Operating Environment	-40 °C to +60 °C (-40 °F to	+140 °F)					

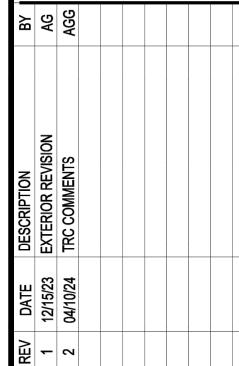
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Limited system warranty of up to ten (10) years





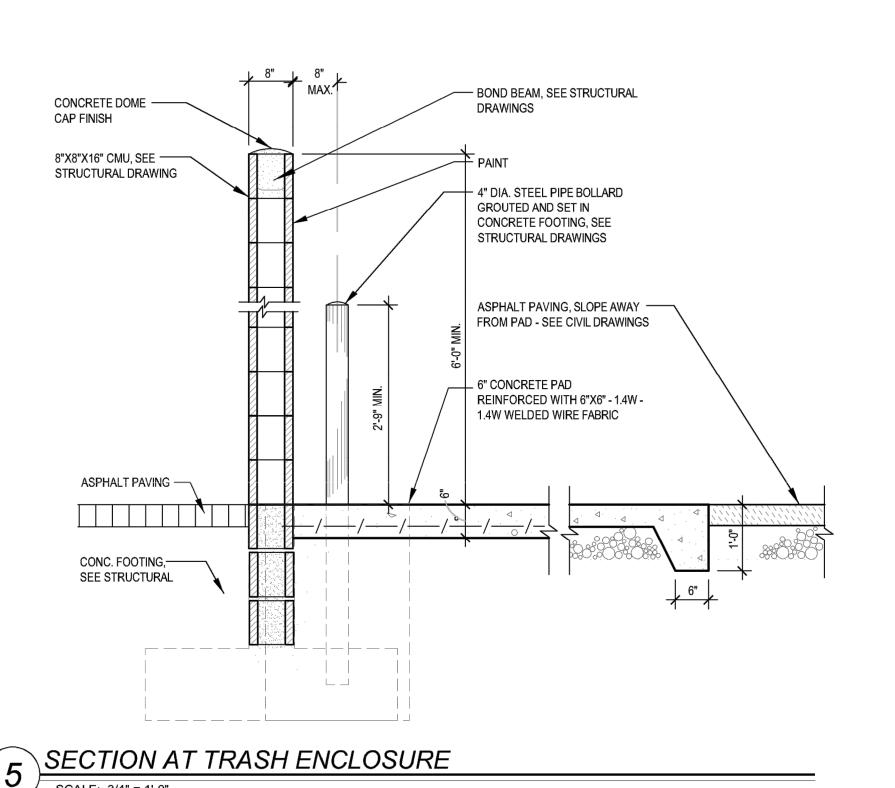


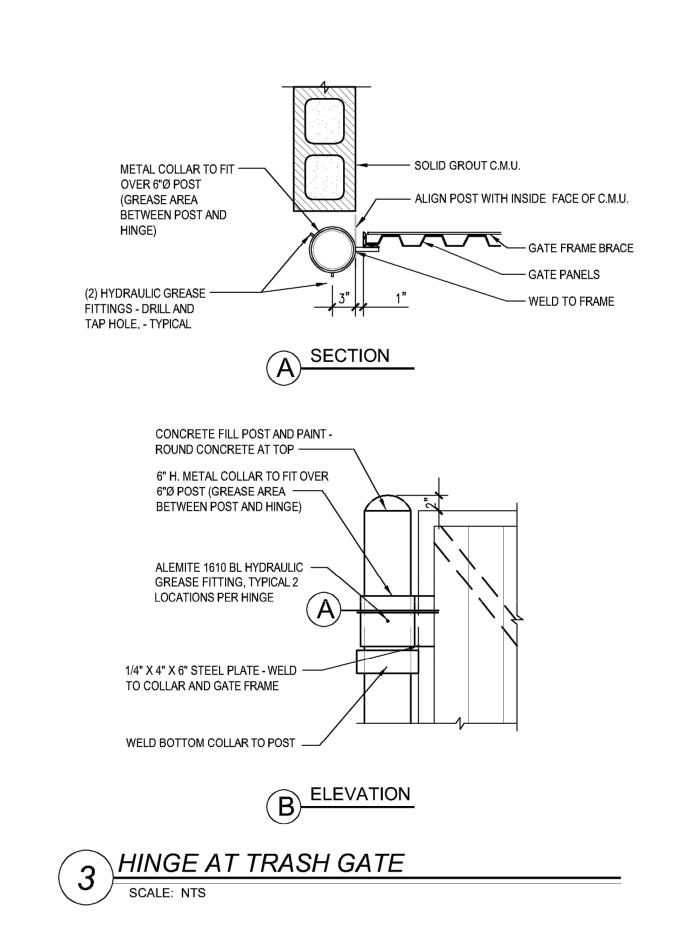
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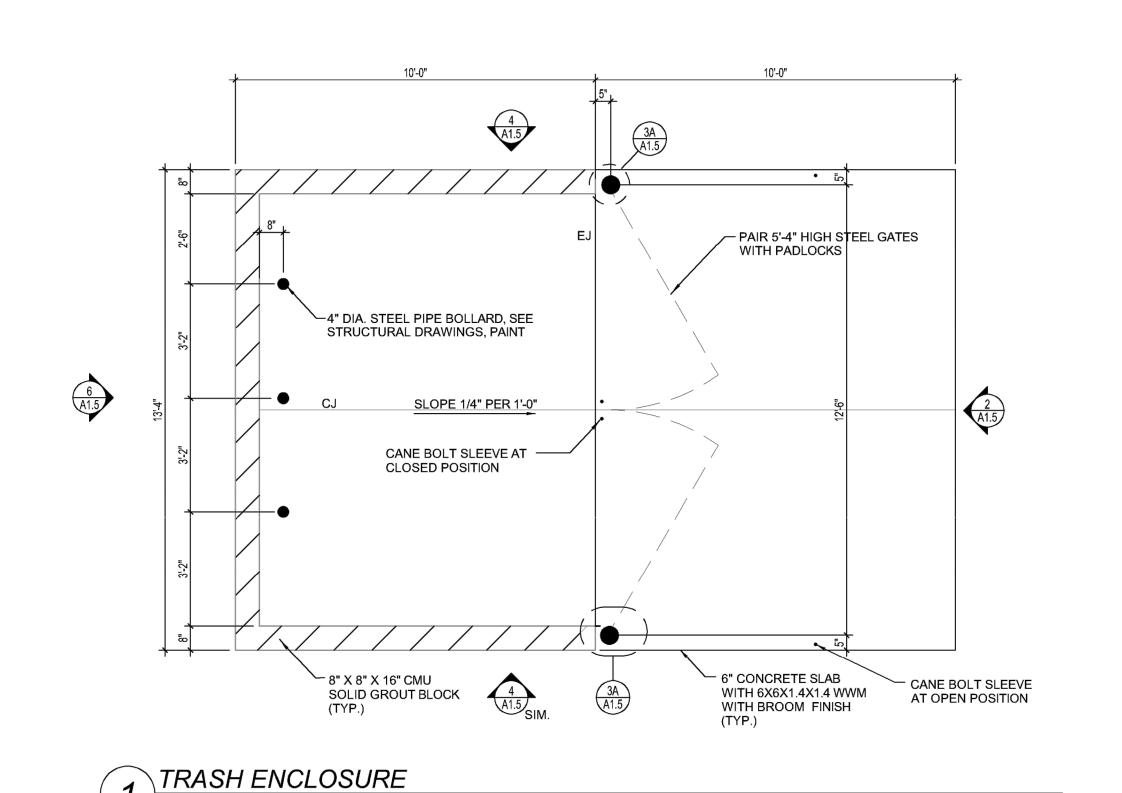
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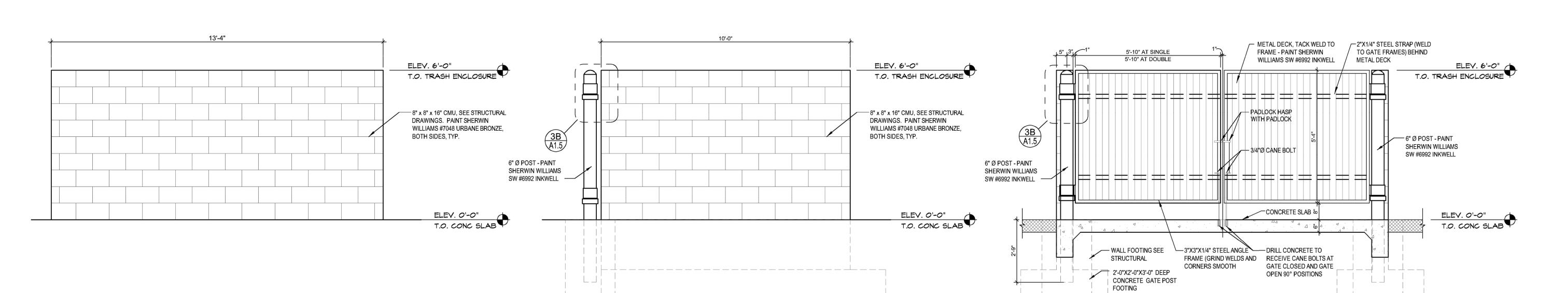
KIOSK PROTOTYPE: 4.1 PROTOTYPE MAY 2022 ISSUE DATE: 02/28/2024 PROJECT NO. 230522 DRAWN BY: CHECKED BY:

SHEET NO.









TRASH ENCLOSURE - BACK ELEVATION

SCALE: 1/2" = 1'-0"

TRASH ENCLOSURE - SIDE BACK ELEVATION

SCALE: 1/2" = 1'-0"

2 TRASH ENCLOSURE -FRONT ELEVATION

SCALE: 1/2" = 1'-0"

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



ORPORERING STORE PLANN

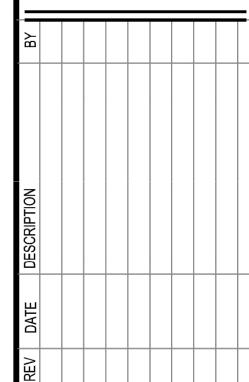
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SUITE 300

ST. LOUIS. MO 63

ARCHITECTURE
SAINT LOUIS / D
1950 CRAIG ROAD, SUIT





TITLE: TRASH ENCLOSURE PLAN, ELEVATIONS &

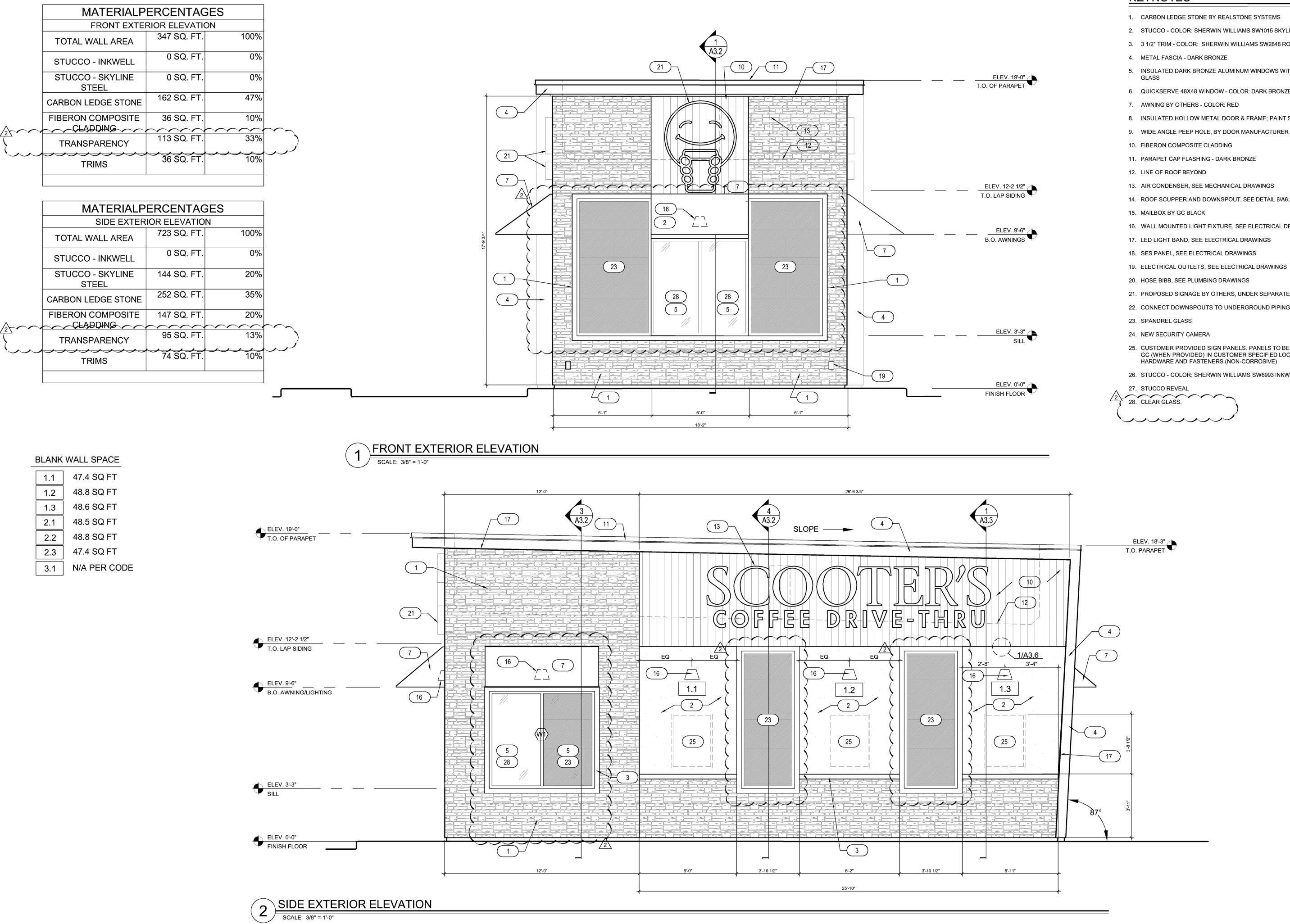
DETAIL

PROJECT ADDRESS:
306 S. MAIN ST.
ROLESVILLE, NC 27571
FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #562
P&S JAVA ENTERPRISES, INC.

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
ISSUE DATE:
08/14/2023
PROJECT NO.
230522
DRAWN BY:
BB
CHECKED BY:
XXX

SHEET NO.

A1.5



KEYNOTES

1. CARBON LEDGE STONE BY REALSTONE SYSTEMS

2. STUCCO - COLOR: SHERWIN WILLIAMS SW1015 SKYLINE STEEL

3. 3 1/2" TRIM - COLOR: SHERWIN WILLIAMS SW2848 ROYCROFT PEWTER

5. INSULATED DARK BRONZE ALUMINUM WINDOWS WITH DUAL PANE TEMPERED

6. QUICKSERVE 48X48 WINDOW - COLOR: DARK BRONZE

7. AWNING BY OTHERS - COLOR: RED

8. INSULATED HOLLOW METAL DOOR & FRAME; PAINT SHERWIN WILLIAMS SW6992

9. WIDE ANGLE PEEP HOLE, BY DOOR MANUFACTURER

11. PARAPET CAP FLASHING - DARK BRONZE

13. AIR CONDENSER, SEE MECHANICAL DRAWINGS

14. ROOF SCUPPER AND DOWNSPOUT, SEE DETAIL 8/A6.3

16. WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

17. LED LIGHT BAND, SEE ELECTRICAL DRAWINGS

21. PROPOSED SIGNAGE BY OTHERS, UNDER SEPARATE PERMIT

22. CONNECT DOWNSPOUTS TO UNDERGROUND PIPING, REF. CIVIL.

25. CUSTOMER PROVIDED SIGN PANELS. PANELS TO BE MOUNTED TO FASCIA BY GC (WHEN PROVIDED) IN CUSTOMER SPECIFIED LOCATION USING PROPER HARDWARE AND FASTENERS (NON-CORROSIVE)

26. STUCCO - COLOR: SHERWIN WILLIAMS SW6993 INKWELL EGGSHELL FINISH

28. CLEAR GLASS.

4/24/24



-	REV	DATE	DESCRIPTION	æ
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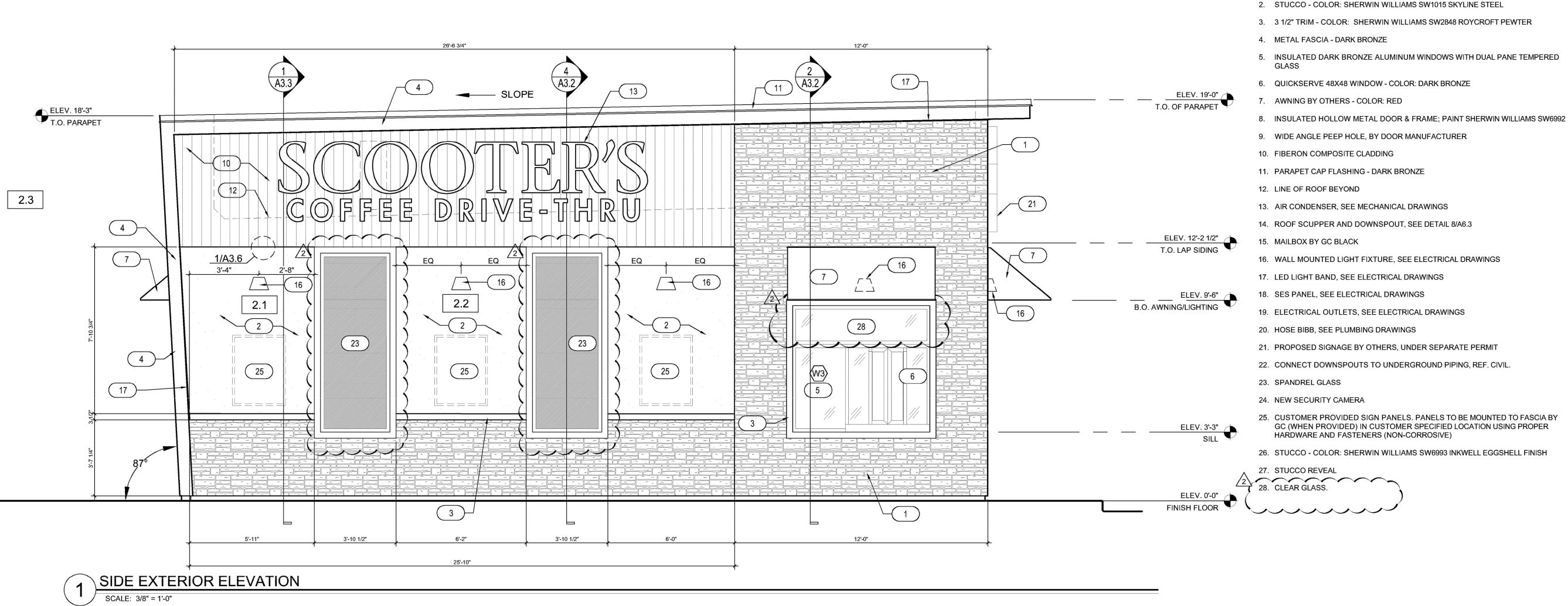
ELEVATIONS

PROJECT ADDRESS: 306 S. MAIN ST. ROLESVILLE, NC 27571

KIOSK PROTOTYPE: 4.1 PROTOTYPE MAY 2022 ISSUE DATE: 02/28/2024 PROJECT NO. 230522 DRAWN BY: NES, ANG CHECKED BY:

SHEET NO.

SW, ANG



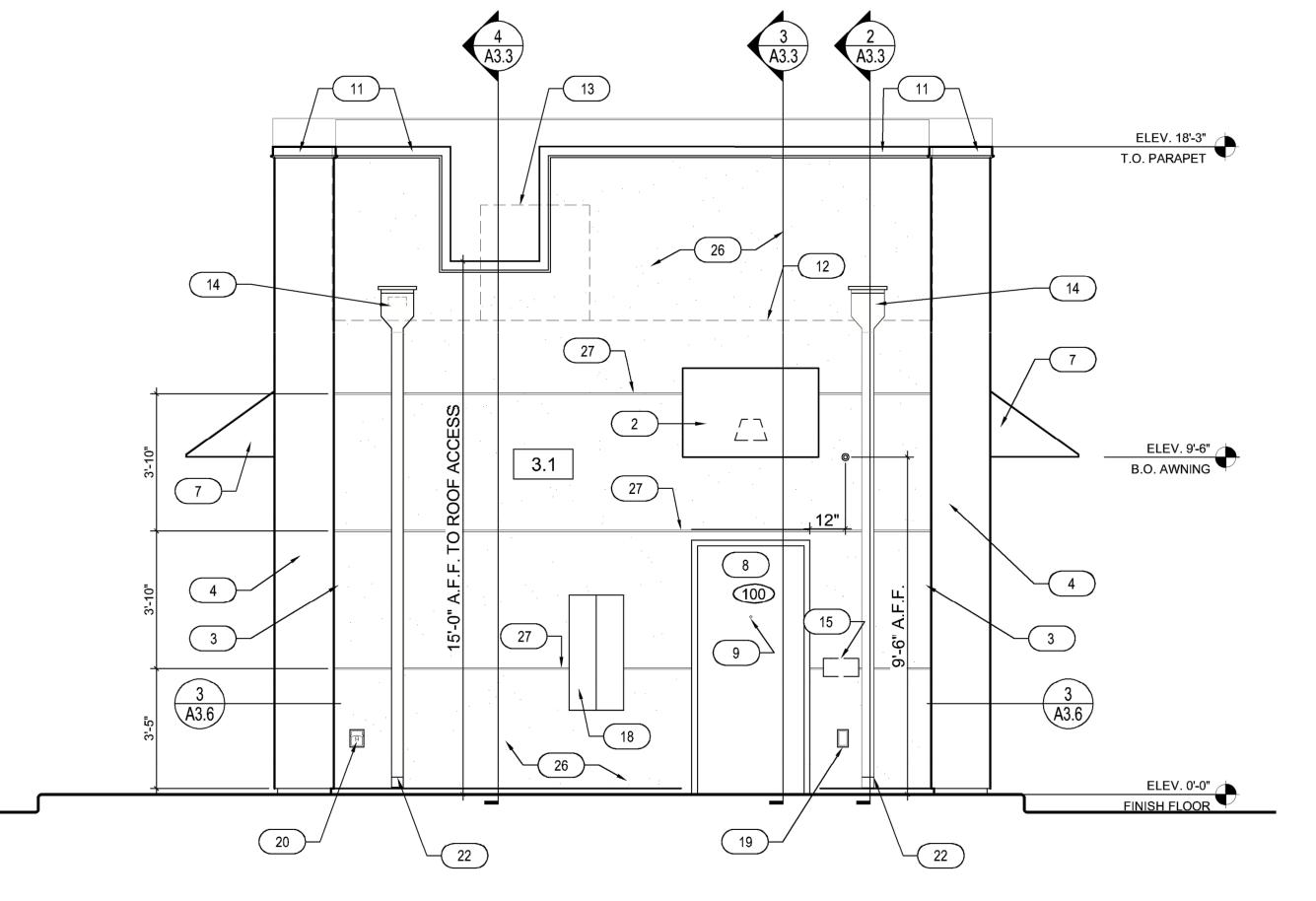
BLANK WALL SPACE	
1.1	47.4 SQ FT

1.2	48.8 SQ FT
1.3	48.6 SQ FT
2.1	48.5 SQ FT
2.2	48.8 SQ FT
2.3	47.4 SQ FT

N/A PER CODE

	MATERIALPERCENTAGES				
	DRIVE THRU SIDE EXTERIOR ELEVATION				
	TOTAL WALL AREA	723 SQ. FT.	100%		
	STUCCO - INKWELL	0 SQ. FT.	0%		
	STUCCO - SKYLINE STEEL	1441 SQ. FT.	199%		
	CARBON LEDGE STONE	252 SQ. FT.	35%		
A-00	FIBERON COMPOSITE CLADDING	147 SQ. FT.	20%		
(TRANSPARENCY	95 SQ. FT.	13%		
· · · · · · · · · · · · · · · · · · ·	TRIMS	74 SQ. FT.	10%		

ERCENTAGE	S				
BACK EXTERIOR ELEVATION					
357 SQ. FT.	100%				
250 SQ. FT.	70%				
0 SQ. FT.	0%				
0 SQ. FT.	0%				
0 SQ. FT.	0%				
24 SQ. FT.	7%				
83 SQ. FT.	23%				
	0 SQ. FT. 0 SQ. FT. 0 SQ. FT. 24 SQ. FT.				



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

KEYNOTES

1. CARBON LEDGE STONE BY REALSTONE SYSTEMS

5. INSULATED DARK BRONZE ALUMINUM WINDOWS WITH DUAL PANE TEMPERED

25. CUSTOMER PROVIDED SIGN PANELS. PANELS TO BE MOUNTED TO FASCIA BY GC (WHEN PROVIDED) IN CUSTOMER SPECIFIED LOCATION USING PROPER HARDWARE AND FASTENERS (NON-CORROSIVE)

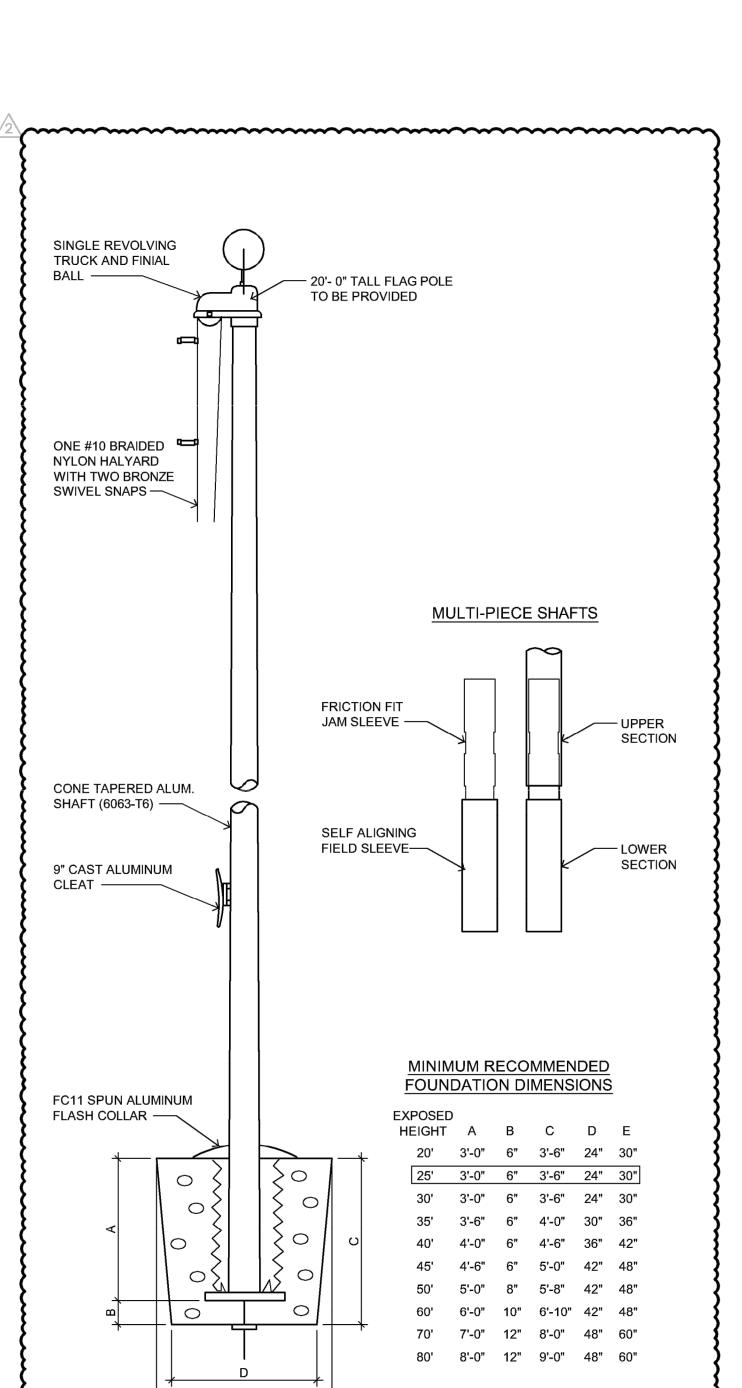
4/24/24

EXTERIOR ELEVATIONS

PROJECT ADDRESS:
306 S. MAIN ST.
ROLESVILLE, NC 27571

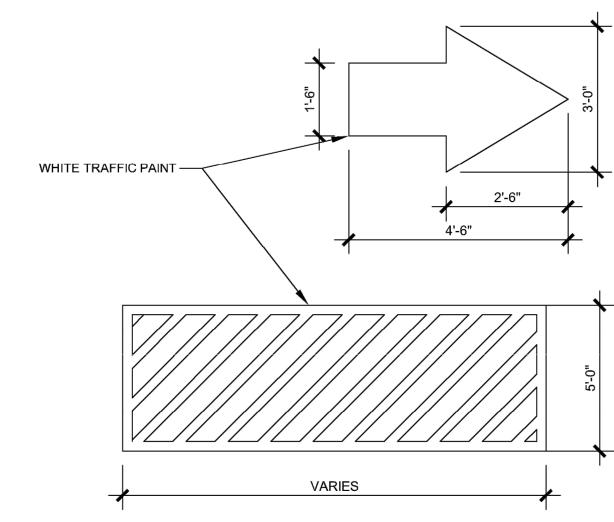
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SHEET NO.

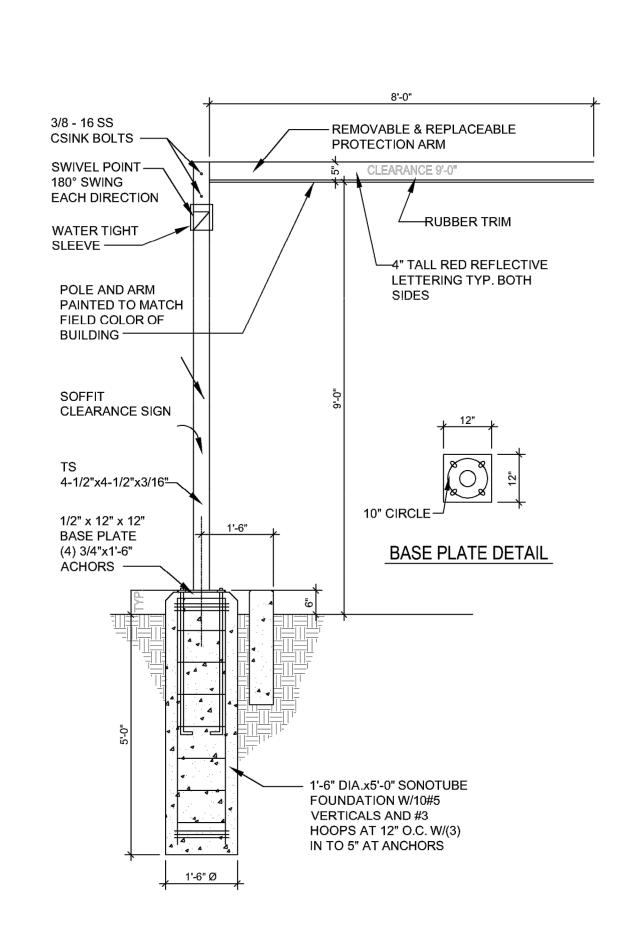


6 FLAGPOLE GROUND SET INSTALLATION

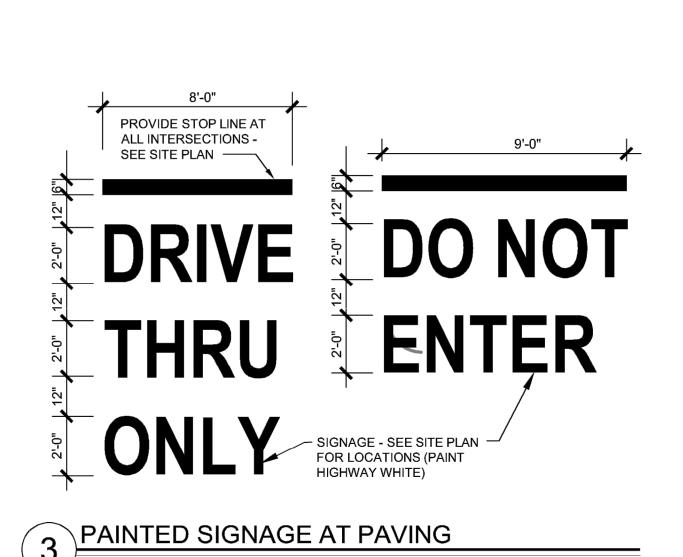
SCALE: NTS

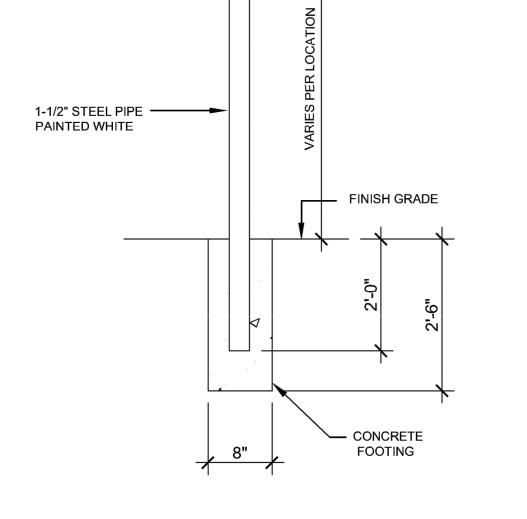


PAINTED TRAFFIC SYMBOLS



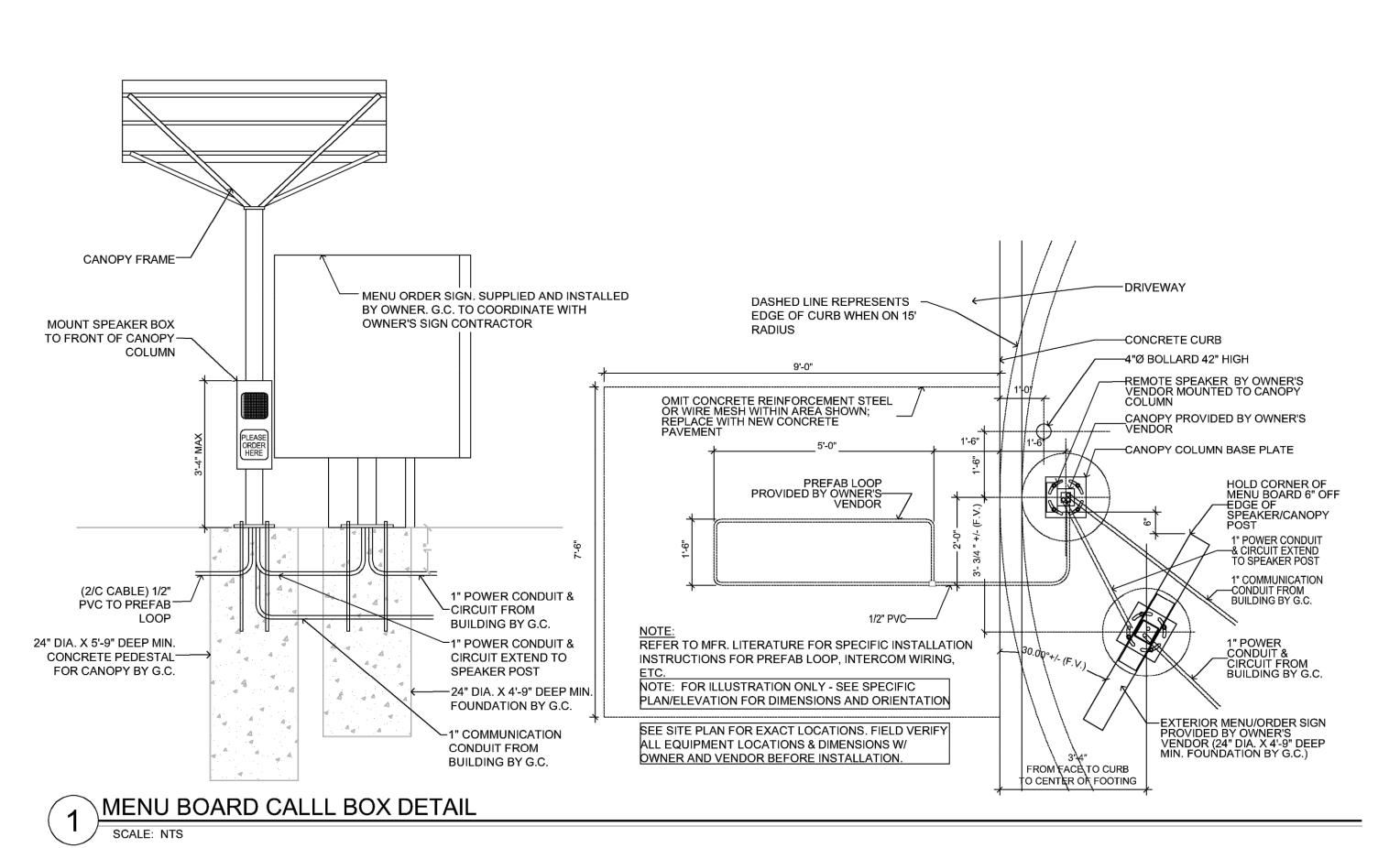
HEIGHT CLEARANCE SIGN DETAIL





_ ACCESSIBLE SIGNAGE

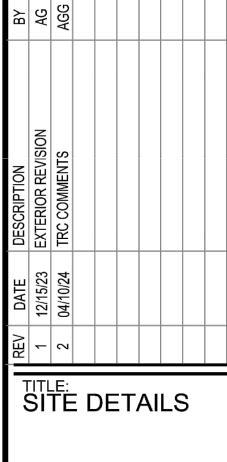
SIGN DETAIL



SHEET NO.

GOGLIA





FRANCHISEE & STORE NUMBER: SCOOTER'S COFFEE #562 P&S JAVA ENTERPRISES, INC S S. MAIN ST.

LESVILLE, NC 27571

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