

OWNER/DEVELOPER:
MERITAGE HOMES
TRISTA KNUTH
3300 PARAMOUNT PARKWAY, SUITE 120
MORRISVILLE, NC 27560
PHONE: (919) 926-2635
EMAIL: TRISTAN.KNUTH@MERITAGEHOMES.COM

SURVEY PROVIDED BY:
SURVEY INCLUDED IN KALAS FALLS
PHASE 2 CONSTRUCTION PLANS

CONTRACTOR TO VERIFY EXISTING
CONDITIONS PRIOR TO BID AND
CONSTRUCTION.

ENGINEER:
CESO NC, CO.
3601 RIGBY RD., STE 300
MIAMISBURG, OH 45342
PHONE: (937) 435-8584
CONTACT: GARRETT GEORGE, P.E.
EMAIL: GARRETT.GEORGE@CESOINC.COM
EOR: JEFFREY A. TIBBITTS, P.E.

SUBDIVISION ENGINEER:
AMERICAN ENGINEERING
4020 WESTCHASE BOULEVARD, SUITE 450
RALEIGH, NC 27607
PHONE: (919) 468-1101
KALAS FALLS PHASE 2 CONSTRUCTION PLANS DATED: 12/21/2020

CESO PROVIDES NO GUARANTEE TO THE ACCURACY OF THE
SURVEY PROVIDED FOR KALAS FALL PHASE 2 CONSTRUCTION
PLANS. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO
BID AND CONSTRUCTION.

GOVERNING AGENCIES AND UTILITY COMPANIES:

SEWER:
RALEIGH PUBLIC UTILITIES DEPT.
222 W. HARGETT ST.
RALEIGH, NC 27601
PHONE: (919) 996-3245

GAS SERVICE:
ENBRIDGE GAS NORTH CAROLINA
2712 DISCOVERY DR
RALEIGH, NC 27616
PHONE: (877) 776-2427

WATER:
RALEIGH PUBLIC UTILITIES DEPT.
222 W. HARGETT ST.
RALEIGH, NC 27601
PHONE: (919) 996-3245

ELECTRIC:
DUKE ENERGY CAROLINAS, LLC
526 SOUTH CHURCH ST
CHARLOTTE, NC 28202
PHONE: (800) 777-9898

STORMWATER:
ROLESVILLE PUBLIC WORKS DEPT.
805 E. YOUNG STREET
ROLESVILLE, NC 27571
PHONE: (919) 556-6490

ZONING:
ROLESVILLE PLANNING DEPT.
211 S. MAIN STREET
ROLESVILLE, NC 27571
PHONE: (919) 554-6517

SITE DATA:

PARCEL ADDRESS: 1600 & 1832 ROLESVILLE ROAD
ROLESVILLE, NC

OWNER: MITCHELL MILL ROAD INVESTORS, LLC
105 WESTON ESTATES WAY
CARY, NC 27519

PIN NUMBER: 1767-17-8299, 1767-08-3228, 1768-00-2153, 1767-29-5866

ZONING: R-30

TOTAL
DISTURBED AREA: 4.05 AC

TOTAL
ACREAGE: AMENITY AREA: 2.93 AC

OPEN QUANTITY:

A. DOG PARK:
TOTAL AREA: 0.94 AC
B. OPEN SPACE:
TOTAL AREA: 0.55 AC

COMMUNITY RECREATION FACILITY PARKING SPACES:

	AREA (SF)	SPACES
OUTDOOR ACTIVITY (1 PER 1000 SF)		
POOL AND POOL DECK	12,080	13
PLAYGROUND	1,070	2
BUILDING AREA (3 PER 1000 SF)	1,500	5

TOTAL REQUIRED: 20
TOTAL PROVIDED: 40

ADA PARKING SPACES:

PARKING REQUIRED: 2
PARKING PROVIDED: 2

TOTAL SITE PARKING SPACES PROVIDED: 42

BUILDING SETBACKS:	REQUIRED	PROPOSED
FRONT:	20'	122'
SIDE:	10'	20'
REAR:	20'	24'

NOTES:

- ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY THE PROJECT ENGINEER OF ANY CONFLICTS.

ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Infrastructure Inspections Division and schedule a Pre-construction meeting on the Development Portal prior to beginning any construction. Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

Failure to notify City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require installation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a downstream plug, have permitted plans on the jobsite, or any other violation of City of Raleigh Standards will result in a fine and possible exclusion from future work in the City of Raleigh.

KALAS FALLS PHASE 2 AMENITY AND OPEN SPACE

525 KALAS FALLS DRIVE
ROLESVILLE, NC 27587
WAKE COUNTY
WAKE FOREST TOWNSHIP

SITE DEVELOPMENT PLAN: SDP-25-0002

KALAS FALLS PH2 CONSTRUCTION APPROVAL CD 21-03(APPROVED 3/25/2022)

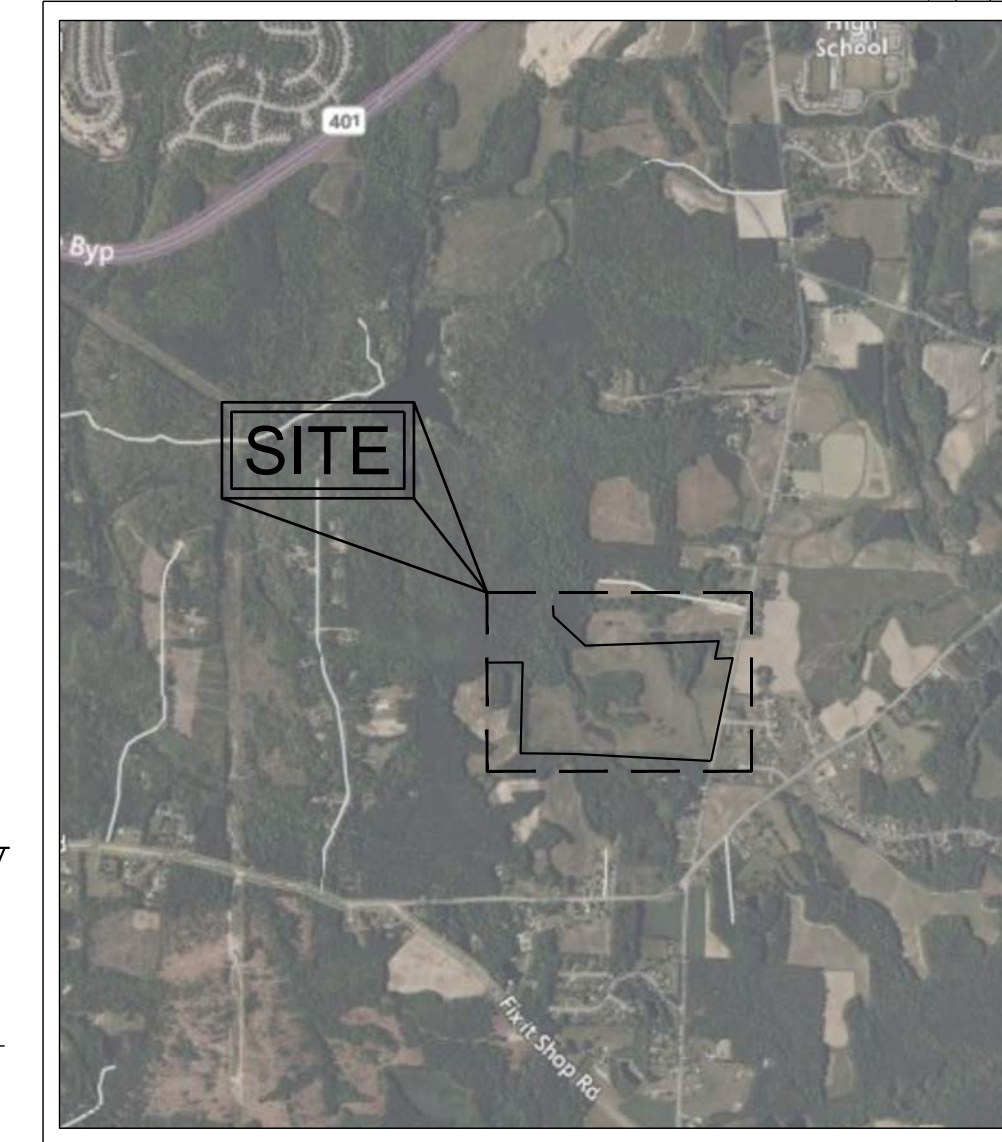
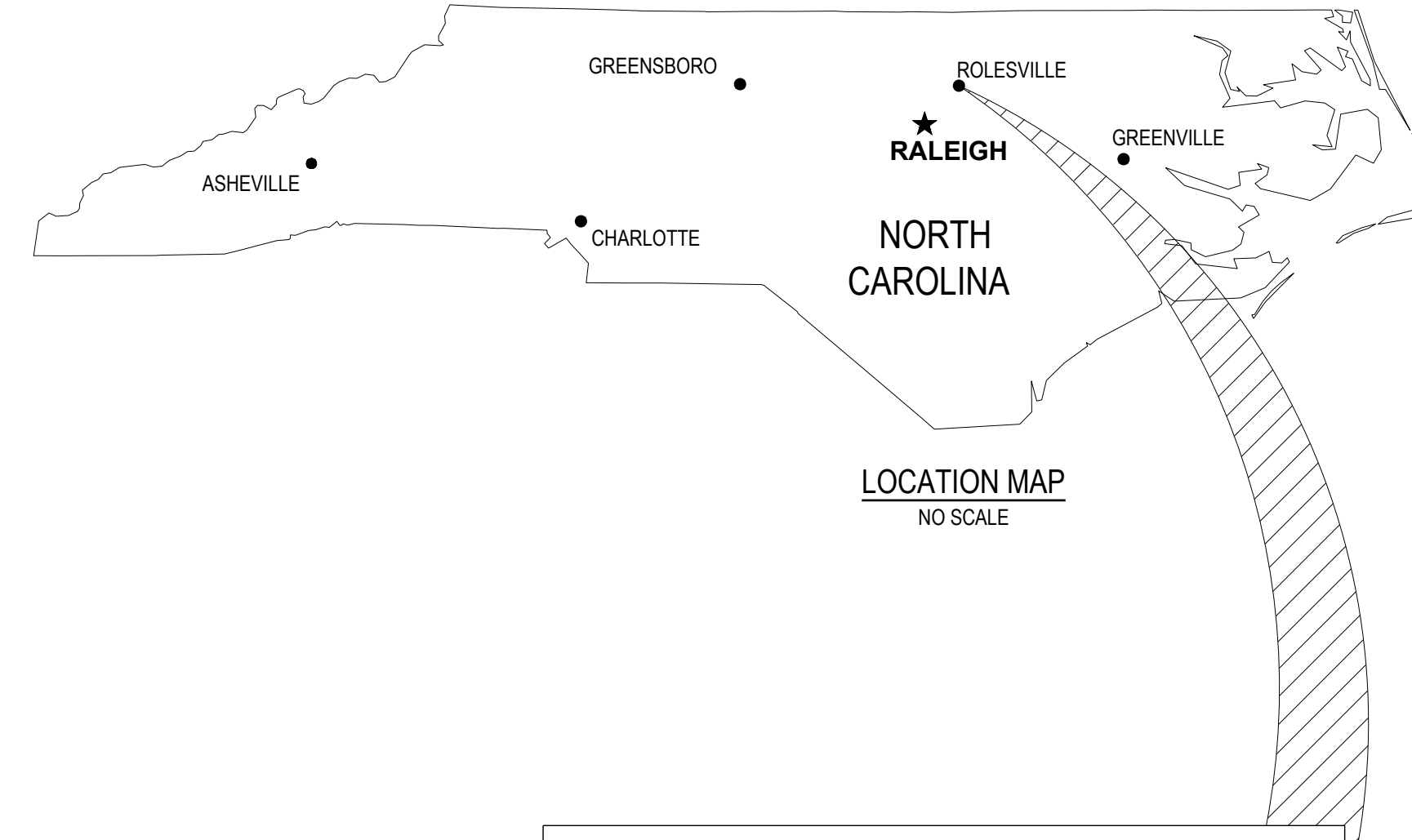


SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C1.0	COVER SHEET
C1.1	GENERAL NOTES
C2.0	EXISTING CONDITIONS & DEMOLITION PLAN - AMENITY
C2.1	EXISTING CONDITIONS & DEMOLITION PLAN - OPEN SPACE
C3.0	EROSION & SEDIMENT CONTROL PHASE 1 - AMENITY
C3.1	EROSION & SEDIMENT CONTROL PHASE 1 - OPEN SPACE
C3.2	EROSION & SEDIMENT CONTROL PHASE 2 - AMENITY
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C5.0	GRADING PLAN AMENITY AREA
C5.1	DRAINAGE PLAN AMENITY
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C6.0	UTILITY PLAN - AMENITY
C7.0	DETAILS PLAN
C7.1	DETAILS PLAN
C7.2	DETAILS PLAN
L1.0	LANDSCAPE PLAN
L1.1	LANDSCAPE PLAN
L1.2	LANDSCAPE PLAN
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INFRASTRUCTURE INSPECTIONS QUANTITIES TABLE

Phase Number(s)	PHASE 1	PHASE 2	PHASE 3
Number of Lot (s)			
Lot Number (s) by Phase			
Number of Units			
Liveable Buildings			
Open Space?			
Number of Open Space Lots			
Public Water (LF)			
Private Water* (LF)			
Public Sewer (LF)			
Public Force Main (LF)			
Private Sewer** (LF)			
Public Street (LF) - FULL			
Public Street (LF) - PARTIAL			
Public Sidewalk (LF) - FULL			
Public Sidewalk (LF) - PARTIAL			
Multi-Use Path*** (LF)			
Public Stormdrain (LF)			
Street Signs (LF)			
Water Service Stubs			
Sewer Service Stubs			
Average Daily Flow per phase****			
**** Water mains 4" and larger			
**** Sewer mains and manholes as part of a collection system			
**** 10 or 12 ft wide path in lieu of sidewalk or a Multi-Use path as part of a development amenity			
**** Entire Project Flow. Based on 75gpd per bedroom for residential (Apartments, single family dwelling, townhouse, condos), or based on 15A NCAC 02T .0114 Wastewater Design Flow Rates for Commercial and Industrial.			



INDEX MAP
SCALE: 1"=250'

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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

Digitally signed by
austin.bain@raleighnc.gov
Date: 2026.08.12 16:18:36 -04'00'

City of Raleigh Development Approval

Raleigh Water Review Officer



SDP-25-0002 (SDP-25-04) / Site Development
Plan / Kalas Falls Amenity Center
APPROVED – May 29, 2026

Town of Rolesville Planning Department



SEVENTY-TWO (72) HOURS
BEFORE DIGGING IS TO
COMMENCE, THE CONTRACTORS
SHALL NOTIFY THE FOLLOWING
AGENCIES: NORTH CAROLINA
UTILITIES PROTECTION SERVICE
AT 811 OR 800-632-4949 AND ALL
OTHER AGENCIES WHICH MAY
HAVE UNDERGROUND UTILITIES
INVOLVING THIS PROJECT AND
ARE NONMEMBERS OF STATE
UTILITIES PROTECTION SERVICE



CESO



CESO NC, CO. LICENSE NO: C-4740

MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

ID	Description	Revisions / Submissions	Date
01	ROLESVILLE COMMENTS		12/19/2025
02	ROLESVILLE COMMENTS		02/18/2026
03	AHJ COMMENTS		03/31/2026
04	WAKE COUNTY COMMENTS		07/20/2026

Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
COVER SHEET

C1.0

GENERAL NOTES

DEMOLITION NOTES

1.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. THE DEMOLITION, REMOVAL, AND DISPOSAL IS TO BE APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL FACILITIES SUCH AS: STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, WELLS, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL AS SPECIFIED BY A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER. IF UNDOCUMENTED FACILITIES ARE FOUND ON SITE, CONTRACTOR SHALL CONTACT THE OWNER AND UTILITY COMPANY PRIOR TO REMOVAL. ALL FACILITIES SHALL BE PLUGGED, ABANDONED, OR REMOVED PER STATE AND LOCAL REQUIREMENTS.
2.

FEDERAL, STATE AND LOCAL CODE REQUIREMENTS SHALL GOVERN THE DISPOSAL OF DEBRIS INCLUDING ANY POTENTIALLY HAZARDOUS AND TOXIC MATERIALS. ALL MATERIALS AND STRUCTURES DESIGNATED AS "TO BE REMOVED" SHALL BE DISPOSED OF OFF SITE AND AT THE COST OF THE CONTRACTOR.
3.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOB SITE SAFETY PER OSHA REQUIREMENTS AT ALL TIMES.
4.

PRIOR TO DEMOLITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL THE STATE 811 AND NOTIFY ALL UTILITY COMPANIES TO SCHEDULE UTILITY SERVICE REMOVAL AND/OR ABANDONMENT. ALL UTILITIES SHALL BE REMOVED/RELOCATED PER THE SPECIFICATIONS OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES AND CHARGES ASSOCIATED WITH THIS WORK.
5.

CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO INHABITED BUILDINGS ON SITE AND ADJACENT PROPERTIES AT ALL TIMES. INTERRUPTIONS SHALL BE APPROVED BY THE OWNERS OF THE BUILDINGS/PROPERTIES.
6.

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES. IF THE LOCATION OR ELEVATION OF THE EXISTING UTILITIES ARE FOUND TO BE DIFFERENT FROM THE PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
7.

CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES TO REMAIN INSIDE AND OUTSIDE CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGES AND NOTIFY THE CITY/COUNTY PRIOR TO CONSTRUCTION START. ANY EXISTING SITE FEATURE TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, CURB, ETC., SHALL BE REPAIRED TO A CONDITION THAT IS EQUAL TO, OR BETTER THAN, THE EXISTING CONDITIONS. PRIOR TO BEING DAMAGED, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
8.

CONTINUOUS ACCESS SHALL BE MAINTAINED TO THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
9.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND LOCAL REGULATIONS.
10.

THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP UNAUTHORIZED PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
11.

PRIOR TO DEMOLITION, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE GOVERNING AGENCIES GUIDELINES AND STANDARDS. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12.

SAWCUT LINE PROVIDED IS FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF THE SAWCUT THAT WILL BE REQUIRED AS WELL AS PAVEMENT REPAIRS TO INSTALL UTILITY TRENCHING. IF ANY DAMAGE OCCURS ON ANY OF THE SURROUNDING PAVEMENT, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THAT WHICH IS NECESSARY TO COMPLETE THE INTENT OF THE PROPOSED IMPROVEMENTS. SAWCUT EXISTING PAVEMENT TO FULL DEPTH, USING CARE TO CUT NEAT, STRAIGHT LINES. CUT AT EXISTING JOINTS WHERE POSSIBLE.
13.

THE CONTRACTOR SHALL MAINTAIN A WELL-DRAINED SITE, FREE OF STANDING WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION.
14.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO STUDY THE PLANS AND VISIT THE SITE TO DETERMINE THE ITEMS THAT MUST BE REMOVED TO COMPLY WITH THE SITE DEVELOPMENT PLANS. NO EXTRA FEE WILL BE PAID FOR THE REMOVAL OF ANY ITEM NOT LISTED THAT IS VISIBLE UPON A SITE VISIT. THE DEMOLITION PLAN IS INTENDED TO PRESENT THE SCOPE OF THE DEMOLITION, AND DOES NOT GUARANTEE THAT ALL ITEMS ARE ADDRESSED.
15.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS AND CHECK ALL GOVERNING AUTHORITIES' SPECIFICATIONS FOR BUT NOT LIMITED TO, GUTTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING THE REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR NOTED OTHERWISE.
16.

THE CONTRACTOR SHALL CREATE AND IMPLEMENT AN EROSION AND SEDIMENTATION CONTROL PLAN FOR ALL SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT. THE PLAN MUST CONFORM TO THE EROSION AND SEDIMENTATION REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS AND CODES, WHICHEVER IS MORE STRINGENT.
17.

ALL COSTS FOR INSPECTIONS AND/OR TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.

SITE NOTES

1.

ALL MATERIAL NOTED ON DRAWINGS WILL BE SUPPLIED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2.

CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS TO COORDINATE ACCESS POINTS AND ELEVATIONS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF DOORS, ENTRY RAMP, AND CANOPY.
3.

ALL COSTS FOR INSPECTIONS AND/OR TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.
4.

ACCESSIBILITY STANDARDS SHALL BE IN ACCORDANCE WITH FEDERAL AND LOCAL REQUIREMENTS FOR HANDICAP ACCESSIBILITY, INCLUDING BUT NOT LIMITED TO THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. ADA PARKING STALLS SHALL MEET ADA GRADE GUIDELINES. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AT ACCESS POINTS, ACCESSIBLE ROUTES, AND EXISTING PARKING TO REMAIN TO DETERMINE COMPLIANCE WITH STANDARDS.
5.

ALL ADA ACCESSIBLE ROUTES, WITHIN THE PUBLIC RIGHT-OF-WAY, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE "PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES" AND ANY APPLICABLE LOCAL OR STATE REQUIREMENTS. THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
6.

ALL ADA ACCESSIBLE ROUTES, INCLUDING SIGNAGE AND STRIPPING WITHIN THE PROJECT LIMITS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE "ADA STANDARDS FOR ACCESSIBLE DESIGN" AND ANY LOCAL OR STATE REQUIREMENTS. THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
7.

ALL DIMENSIONS AND RADII ARE TO THE FACE OF THE CURB OR EDGE OF PAVEMENT, AS APPLICABLE, UNLESS OTHERWISE NOTED.
8.

ALL CURB RADII ARE 5 FEET UNLESS OTHERWISE NOTED.
9.

PROVIDE SIGNAGE AND STRIPING AS SHOWN. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE GOVERNING MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). PAVEMENT MARKINGS ON ASPHALT SHALL BE WHITE. PAVEMENT MARKINGS ON CONCRETE SHALL BE YELLOW.
10.

REFER TO ARCHITECTURAL PLANS BY FOR PROPOSED BUILDING SIGNAGE.
11.

REFER TO MECHANICAL PLANS FOR EQUIPMENT LAYOUT.
12.

REFER TO ELECTRICAL PLANS FOR ELECTRICAL WORK.
13.

REFER TO GEOTECHNICAL ENGINEERING REPORT REFERENCED IN THE PLANS FOR THE RESIDENTIAL DEVELOPMENT - KALAS FALLS PHASE 2
14.

REFER TO SURVEY PROVIDED BY AMERICAN ENGINEERING.
15.

ALL LIGHT POLES TO BE LOCATED 3' FROM THE BACK OF CURB, AS MEASURED FROM THE FACE OF POLE FOUNDATION, UNLESS OTHERWISE DENOTED ON PLANS.

SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



GRADING NOTES

1.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
2.

THE TOPOGRAPHIC SURVEY WAS PERFORMED BY A REGISTERED LAND SURVEYOR. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
3.

GRADING AND TOPOGRAPHY IN THESE PLANS BASED FILES RECEIVED FROM AMERICAN ENGINEERING ON 09/09/2025
4.

CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
5.

THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
6.

EXISTING AND PROPOSED GRADE CONTOUR INTERVALS ARE SHOWN AT 1 FOOT INTERVALS.
7.

ALL SPOT ELEVATIONS REFER TO FINISHED PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
8.

ALL ADA ACCESSIBLE PARKING SPACES AND LOADING AREAS SHALL BE GRADED WITH A 2.0% MAXIMUM SLOPE IN ALL DIRECTIONS. ALL ADA ACCESSIBLE ROUTES SHALL BE GRADED WITH A 2.0% MAXIMUM CROSS SLOPE AND 5.0% MAXIMUM RUNNING SLOPE.
9.

MAINTAIN EXISTING DRAINAGE PATTERN THROUGHOUT THE SITE, EXCEPT WITHIN THE LIMITS OF DISTURBANCE (LOD).
10.

COORDINATE GRADES AT BUILDING ENTRIES WITH ARCHITECTURAL PLANS.
11.

EXISTING DRAINAGE STRUCTURES SHALL BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES ARE TO BE CLEANED TO REMOVE ALL SILT AND DEBRIS AFTER CONSTRUCTION IS COMPLETE.
12.

IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO A CONDITION EQUAL TO OR BETTER THAN IT'S CONDITION PRIOR TO DAMAGE.
13.

CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND WITHIN PAVED AREAS.
14.

ALL TOPSOIL MUST BE REMOVED BEFORE FILL MATERIAL IS PLACED.
15.

ALL WET, OR OTHERWISE UNSUITABLE SOILS MUST BE STABILIZED. THIS MAY BE ACCOMPLISHED BY DRYING, REMOVAL & REPLACEMENT, REMOVAL & DRYING & RECOMPACTION, OR SOIL TREATMENT (LIME/CEMENT) UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER.
16.

ALL UNSURFACED AREAS, DISTURBED BY GRADING, OPERATION SHALL RECEIVE 6" OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES GREATER THAN 3H:1V AND SEED WITH LOW MAINTENANCE GRASS SEED MIX. CONTRACTOR SHALL SEED DISTURBED AREAS IN ACCORDANCE WITH SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. ALL EXPOSED SURFACE AREAS SHALL BE STABILIZED PER THE SWPPP AND LANDSCAPE REQUIREMENTS AS PART OF THIS PLAN SET.
17.

ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS SOIL TIGHT.
18.

ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
19.

STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

MATERIAL	TYPE	PIPE SPEC	JOINT SPEC	INSTALLATION	ACCEPTABLE AREAS OF USE
HIGH DENSITY POLY-ETHYLENE (HDPE)	SMOOTH-WALLED CORRUGATED ADS-N12 OR EQUAL	AASHTO M294 (TYPE S)	ASTM F477	ASTM D2321	ON SITE, 12" TO 60" DIA.
POLY VINYL CHLORIDE (PVC)	SDR 35	ASTM D3034	ASTM D3212	ASTM D2321	ON SITE, 4" TO 10"

20.

ALL STORM SEWER STRUCTURE GRATES AND FRAMES WITHIN PAVEMENT SHALL BE HEAVY DUTY.
21.

ALL STORM DRAINAGE SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL COUNTY AND DOT STANDARDS.
22.

ALL DOWNSPOUT DRAIN LINES OR ROOF LEADERS SHALL HAVE A 1.0% MINIMUM SLOPE, UNLESS OTHERWISE NOTED. CONNECT ALL DOWNSPOUTS AND ROOF LEADERS TO THE STORM SEWER SYSTEM. REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT AND ROOF LEADER LOCATIONS. PROVIDE POSITIVE DRAINAGE AND PAVEMENT REPAIR AS NEEDED.
23.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
24.

THE STORM SEWER GRADE WILL BE SUCH THAT A MINIMUM COVER IS MAINTAINED TO WITHSTAND AASHTO HS-25 LOADING ON THE PIPE. PROVIDE MINIMUM 2.0 FEET OF COVER FOR ALL STORM SEWERS UNLESS OTHERWISE NOTED.
25.

WHEN A SANITARY SEWER MAIN LIES ABOVE A STORM SEWER, OR WITHIN 18 INCHES BELOW, THE SANITARY SEWER WILL HAVE AN IMPERVIOUS ENCASEMENT OR BE CONSTRUCTED OF STRUCTURAL SEWER PIPE FOR A MINIMUM OF 10 FEET ON EACH SIDE OF WHERE THE STORM SEWER CROSSES.
26.

IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY SHALL BE REPAIRED AND/OR TIED INTO A STORM SEWER SYSTEM AS NEEDED TO MAINTAIN POSITIVE DRAINAGE.

UTILITY NOTES

1.

CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF O.S.H.A. DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR O.S.H.A.
2.

CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
3.

ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
4.

CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY REGULATIONS AND THE OWNER'S INSPECTION AUTHORITIES.
5.

CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
6.

WATER AND SANITARY UTILITIES SHALL HAVE TEN (10') FEET OF HORIZONTAL CLEARANCE WHEN PARALLEL OR 18" VERTICAL CLEARANCE WHEN CROSSING. ALL CLEARANCE DISTANCES SHALL BE MEASURED FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SANITARY SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER LINE JOINTS.
7.

IF A WATER LINE PASSES UNDER THE SANITARY SEWER LINE, THE SEWER LINE SHOULD BE CONSTRUCTED OF A WATERTIGHT MATERIAL. APPROVED BY THE REGULATORY AGENCY FOR USE IN WATER MAIN CONSTRUCTION AND SHALL EXTEND TEN (10') FEET ON BOTH SIDES OF THE CROSSING, AS MEASURED PERPENDICULAR TO THE WATER LINES. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE.
8.

UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
9.

CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY REGULATIONS AND THE OWNER'S INSPECTION AUTHORITIES.
10.

UTILITY TRENCHES WITHIN PAVED AREAS TO BE BACKFILLED PER UTILITY TRENCH DETAIL PROVIDED WITHIN THE CONSTRUCTION DETAILS SHEET.
11.

ALL WATER LINE WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF RALEIGH CONSTRUCTION STANDARDS AND STATE REGULATIONS.
12.

INSTALL ALL WATER LINES WITH A MINIMUM COVER OF 3-FT.
13.

ON-SITE WATER LINE MATERIAL SHALL BE AS FOLLOWS:

MATERIAL	PRESSURE RATING	PIPE SPEC	FITTINGS	INSTALLATION	ACCEPTABLE AREAS OF USE
POLY VINYL CHLORIDE (PVC)	AWWA C905 PRESSURE CLASS 150 (SCH40)	C-9000 (BLUE)	SOLVENT WELD JOINTS (ASTM 2072)	ASTM D1784/ D1785	ON SITE, < 3" DIA.

14.

ON-SITE SANITARY SEWER LINE MATERIAL SHALL BE AS FOLLOWS:

MATERIAL	PRESSURE RATING	PIPE SPEC	FITTINGS	INSTALLATION	ACCEPTABLE AREAS OF USE
POLY VINYL CHLORIDE (PVC)	SDR 26	ASTM 3034	ASTM D3212	ASTM 2321 WITH TYPE 1 BEDDING	ON SITE, 6" TO 8" DIA, GREATER THAN OR EQUAL TO 8.5' OF COVER

15.

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, SERVICE SIZES TO BE DETERMINED BY ARCHITECT.
16.

CLEAN OUTS AND CURB BOXES WITHIN THE PAVED AREAS MUST HAVE TRAFFIC LOADING FRAMES AND COVERS.

CITY OF RALEIGH STANDARD UTILITY NOTES:

1.

ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2.

UTILITY SEPARATION REQUIREMENTS:

A)

A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.

B)

WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.

C)

WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER MAIN PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATION.

D)

5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.

E)

MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORMDRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49).

F)

ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
3.

ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
4.

CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
5.

3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
6.

IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDED ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
7.

INSTALL ½" COPPER FOR RESIDENTIAL WATER SERVICES WITH METER LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANTS RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
8.

INSTALL 4" PVC FOR RESIDENTIAL SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
9.

PRESSURE REDUCING VALVE ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
10.

ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDOW, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
11.

NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
12.

GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
13.

CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED & TESTED (BOTH, INITIAL & PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

GENERAL NOTES:

1.

ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
2.

CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
3.

CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY IF THE PROJECT ENGINEER (919-469-1101) OF ANY CONFLICTS.



CESO INC. LICENSE NO: C-7470

MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

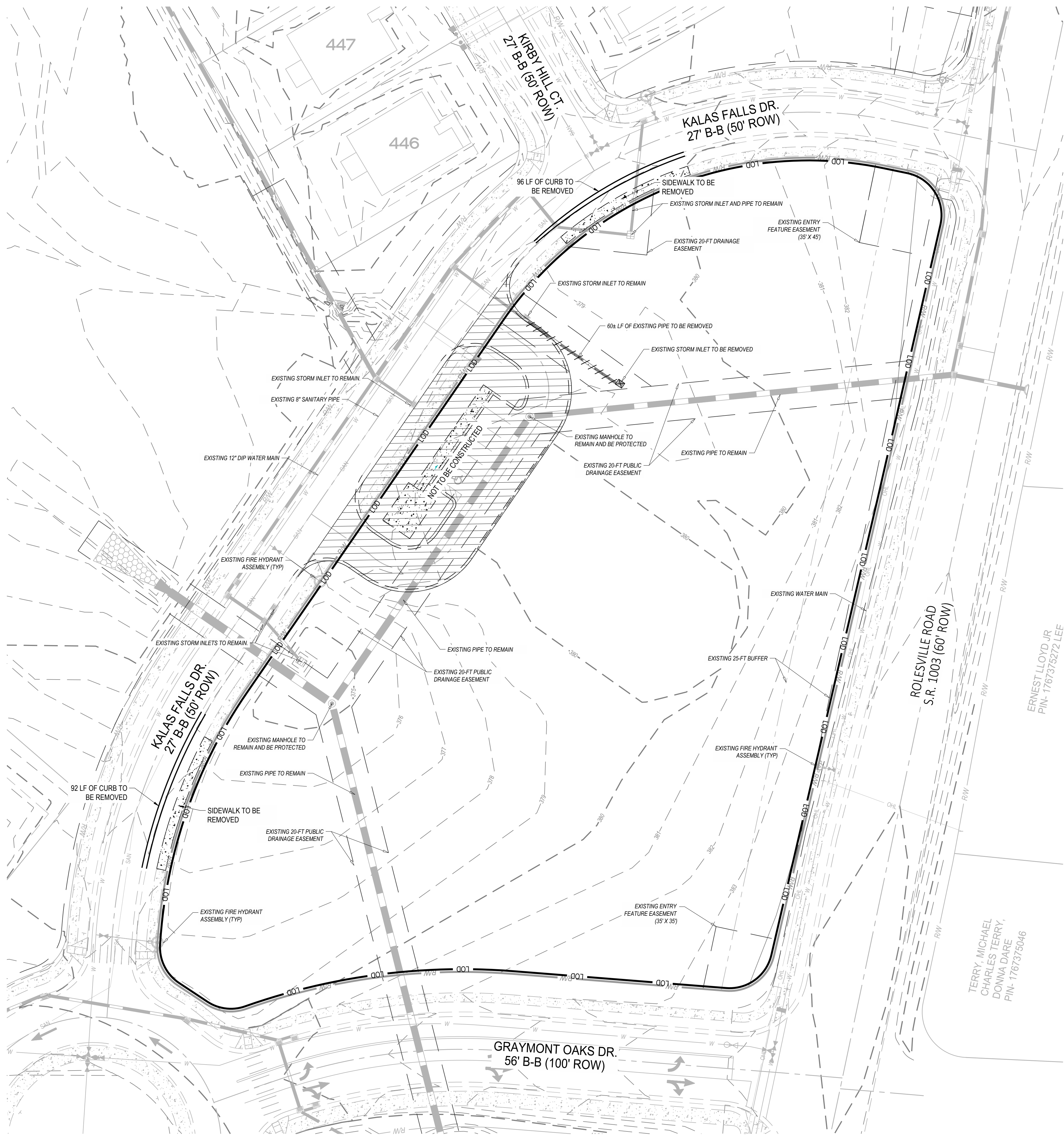
Revisions / Submissions		
ID	Description	Date
01	ROLESVILLE COMMENTS	12/19/2025
02	ROLESVILLE COMMENTS	02/18/2026
03	AHJ COMMENTS	03/31/2026
04	WAKE COUNTY COMMENTS	07/20/2026

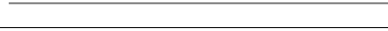
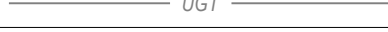
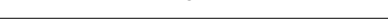
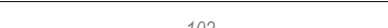
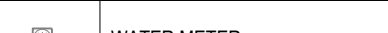
Project Number:	766740-01 / -02
Scale:	AS SHOWN
Drawn By:	RM
Checked By:	CG
Date:	10/31/2025
Issue:	FOR CONSTRUCTION

Drawing Title:
GENERAL NOTES

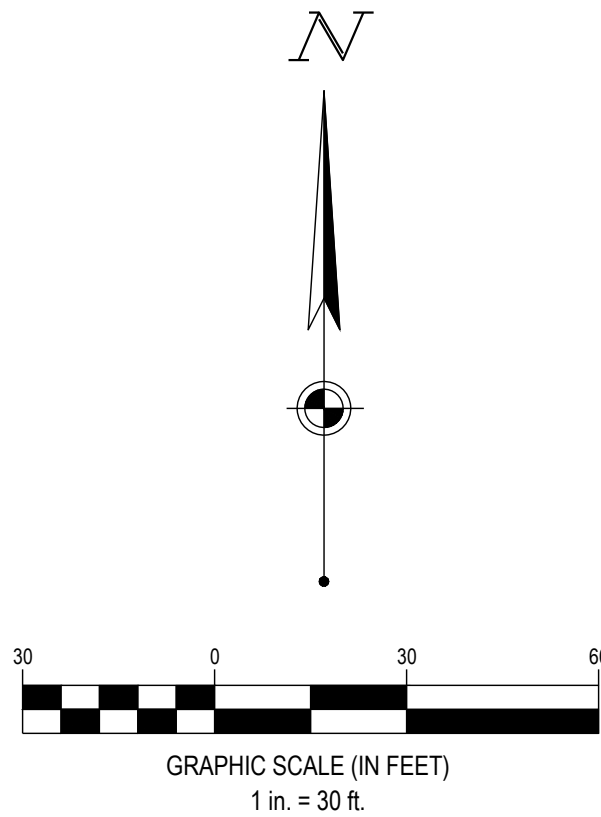
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766740_C2.0 EXISTING CONDITIONS & DEMOLITION PLAN.dwg



EXISTING FEATURES LEGEND			
APPLIES TO ALL CIVIL SHEETS			
 <i>R/W</i>		RIGHT OF WAY	
		PARCEL LINE	
		EASEMENT	
		CURB	
		EDGE OF PAVEMENT	
		EDGE OF WALK	
		PAVEMENT MARKINGS	
 <i>W</i>		WATER LINE	
 <i>UGE</i>		UNDERGROUND ELECTRIC	
 <i>UGT</i>		UNDERGROUND TELE	
 <i>OHL</i>		OVERHEAD LINE	
 <i>STM</i>		STORM SEWER	
 <i>SAN</i>		SANITARY SEWER	
 <i>100</i>		MAJOR CONTOURS	
 <i>102</i>		MINOR CONTOURS	
	WATER METER		STORM CATCH BASIN
	WATER VALVE		STORM INLET BASIN
	POWER/TELE POLE		STORM MANHOLE
	POWER POLE		STORM CLEANOUT
	AIR CONDITIONER		SANITARY MANHOLE
	ELECTRIC BOX		SANITARY CLEANOUT
	LIGHT POLE		TRAFFIC MANHOLE
	GAS VALVE		SIGN
	GAS METER		TELEPHONE POLE

DEMOLITION LEGEND	
PROPOSED	
	LIMITS OF DISTURBANCE
	STORM PIPE TO BE REMOVED
	NOT TO BE CONSTRUCTED



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



CESO NC CO. LICENSE NO: C-4740

MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

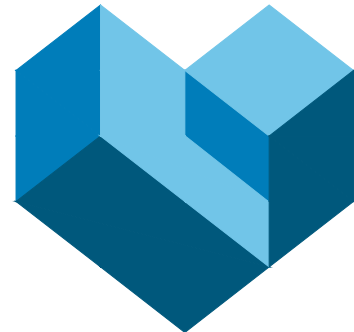
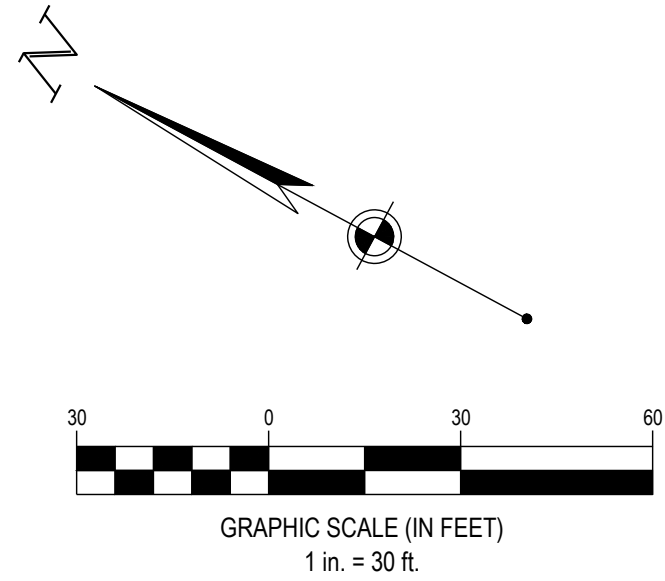
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Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
**EXISTING CONDITIONS
& DEMOLITION PLAN
AMENITY**

C2.0

766740_C2.1 OS EX COND & DEMO PLAN.dwg



CESO



CESO NC CO. LICENSE NO: C-4740

MERTAGE HOME
KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE
1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

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Drawing Title:
**EXISTING CONDITIONS
& DEMOLITION PLAN
OPEN SPACE & DOG
PARK**

C2.1

SEVENTY-TWO (72) HOURS
BEFORE DIGGING IS TO
COMMENCE, THE CONTRACTORS
SHALL NOTIFY THE FOLLOWING
AGENCIES: NORTH CAROLINA
UTILITIES PROTECTION SERVICE
AT 811 OR 800-632-4949 AND ALL
OTHER AGENCIES WHICH MIGHT
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UTILITIES PROTECTION SERVICE



EXISTING FEATURES LEGEND	
APPLIES TO ALL CIVIL SHEETS	
	RIGHT OF WAY
	PARCEL LINE
	EASEMENT
	CURB
	EDGE OF PAVEMENT
	EDGE OF WALK
	PAVEMENT MARKINGS
	WATER LINE
	UNDERGROUND ELECTRIC
	UNDERGROUND TELE
	OVERHEAD LINE
	STORM SEWER
	SANITARY SEWER
	MAJOR CONTOURS
	MINOR CONTOURS
	WATER METER
	WATER VALVE
	POWER/TELE POLE
	POWER POLE
	STORM CATCH BASIN
	STORM INLET BASIN
	STORM MANHOLE
	STORM CLEANOUT

	AIR CONDITIONER		SANITARY MANHOLE
	ELECTRIC BOX		SANITARY CLEANOUT
	LIGHT POLE		TRAFFIC MANHOLE
	GAS VALVE		SIGN
	GAS METER		TELEPHONE POLE

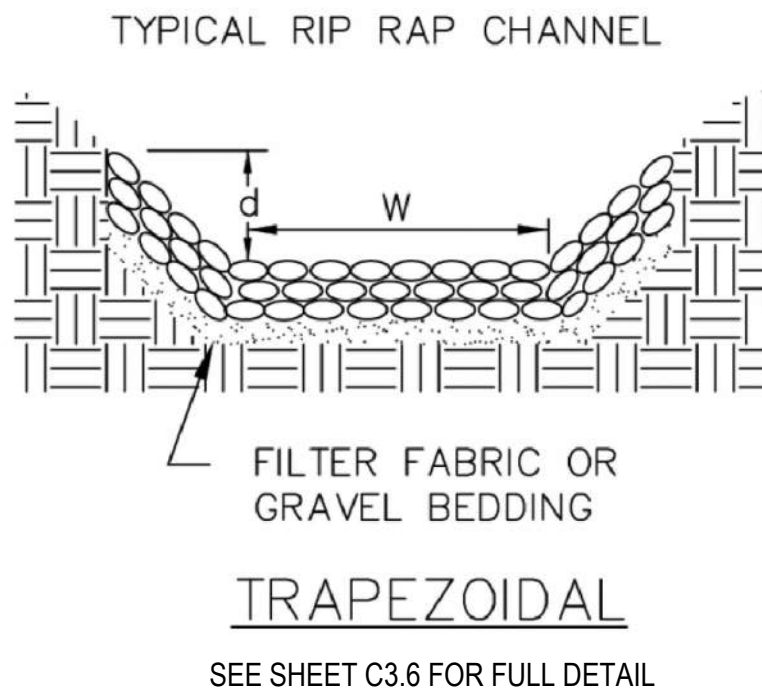
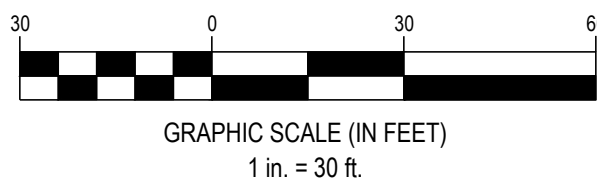
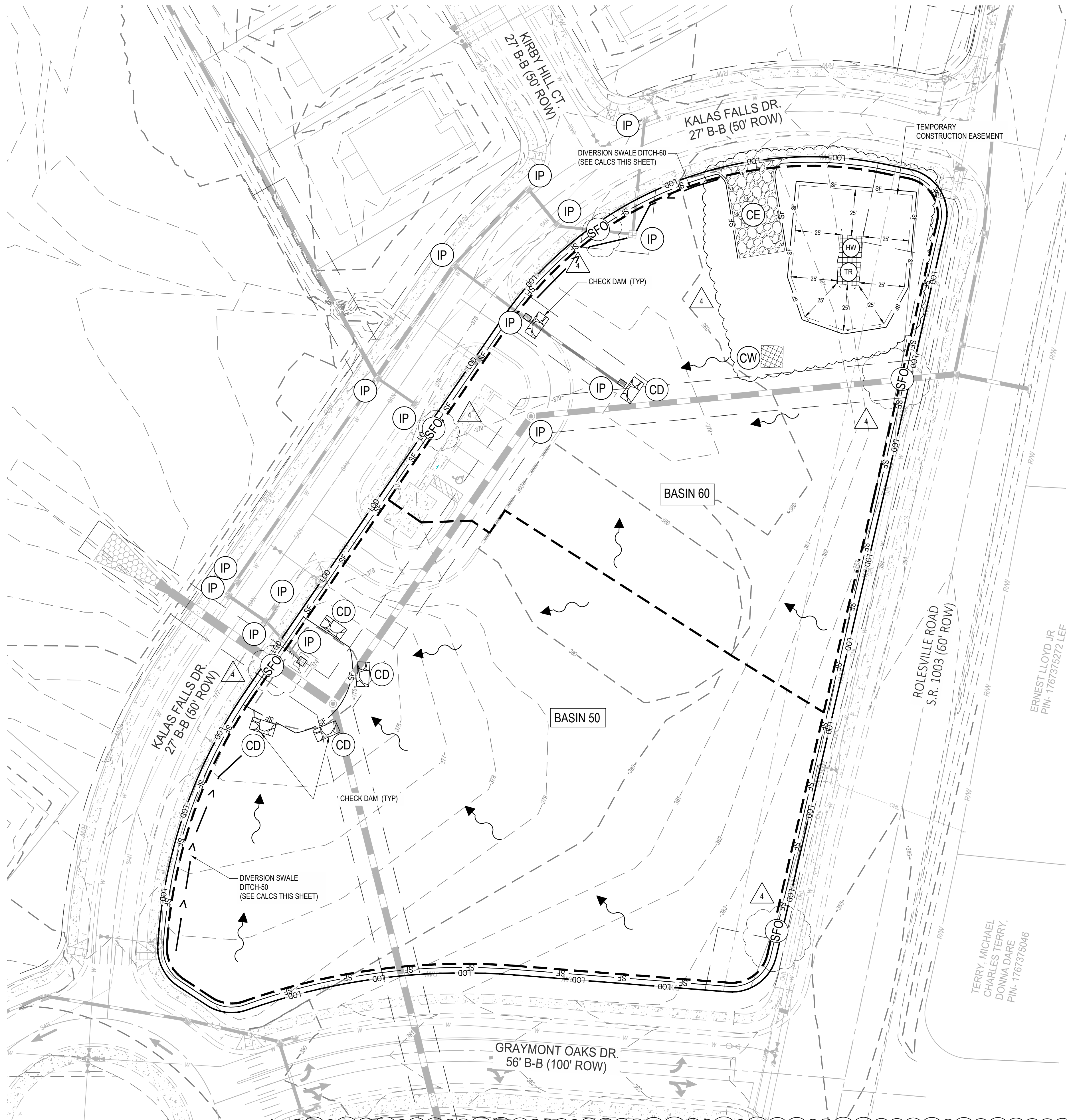
DEMOLITION LEGEND	
PROPOSED	
	LIMITS OF DISTURBANCE



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE

EROSION CONTROL PHASE 1 FLOW CALCULATIONS					
DRAINAGE AREA ID	AREA (ACRES)	C	Time of Concentration (min)	INTENSITY IN/HR (10-YEAR STORM)	Q (CFS)
BASIN 10	0.79	0.35	15	4.86	1.34
BASIN 20	0.08	0.35	15	4.86	0.14
BASIN 30	0.18	0.35	15	4.86	0.31
BASIN 40	0.07	0.35	15	4.86	0.12
BASIN 50	1.63	0.35	15	4.86	2.77
BASIN 60	1.3	0.35	15	4.86	2.21
total	4.05				

EROSION CONTROL PHASE 1 FLOW CALCULATIONS									
DRAINAGE AREA ID	SECTION	DRAINAGE AREA (ACRES)	w WIDTH (FT)	Q (CFS)	SIDE SLOPE	LONGITUDINAL SLOPE	d DEPTH (FT)	FLOW DEPTH (FT)	VELOCITY (FPS)
DITCH 10	TRAPEZOID	0.79	1	1.34	3 TO 1	1% MIN	0.5	0.47	0.37
DITCH 20	TRAPEZOID	0.08	1	0.14	3 TO 1	1% MIN	0.5	0.12	0.05
DITCH 30	TRAPEZOID	0.18	1	0.31	3 TO 1	1% MIN	0.5	0.20	0.11
DITCH 40	TRAPEZOID	0.07	1	0.12	3 TO 1	1% MIN	0.5	0.11	0.04
DITCH 50	TRAPEZOID	1.63	1	2.77	3 TO 1	1% MIN	1	0.73	0.67
DITCH 60	TRAPEZOID	1.3	1	2.21	3 TO 1	1% MIN	1	0.71	0.54



SWPPP LEGEND	
EXISTING	
REFER TO C2.0 FOR EXISTING FEATURES LEGEND	
PROPOSED	
	MAJOR CONTOUR
	MINOR CONTOUR
	PAVEMENT/WALK
	LIMIT OF DISTURBANCE
	SILT FENCE
	TEMPORARY CONSTRUCTION EASEMENT
	BASIN DELINEATION LINE
	STABILIZED CONSTRUCTION ENTRANCE
	STORAGE AREA
	STABILIZED CONSTRUCTION ENTRANCE
	HAZARDOUS WASTE STORAGE AREA
	CONCRETE WASHOUT AREA
	INLET PROTECTION
	TRASH AREA
	CHECK DAM
	PERMANENT STABILIZATION
	SILT FENCE OUTLET

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PROJECT NARRATIVE:

PLAN ENGINEERS: CESO, INC. 1000 LEGION PLACE SUITE 800 ORLANDO, FL 32801 EMAIL: GARRETT.GEORGE@CESOINC.COM CONTACT: GARRETT GEORGE ENGINEER OF RECORD: JEFFREY A. TIBBITTS

DEVELOPER: MERITAGE HOMES 3300 PARAMOUNT PARKWAY SUITE 120 MORRISVILLE, NC 27560 PHONE: (919) 322-2289 EMAIL: BILL.ROBINSON@MERITAGEHOMES.COM CONTACT: WILLIAM ROBINSON

THE PROPOSED PROJECT IS THE CONSTRUCTION OF AN AMENITY CENTER FOR KALAS FALLS SUBDIVISION. THE SUBJECT PARCEL IS 2.94± ACRES.

SEQUENCE OF CONSTRUCTION

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBANCE PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS 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.
- CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- INSTALL STORM SEWER, IF IN THE APPROVED PLANS, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDE AREAS PER GROUND STABILIZATION TIME FRAMES.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- IF THE 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, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.
- CONTACT WAKE COUNTY WATERSHED MANAGEMENT AT 919-856-7436 WHEN ADDITIONAL PHASES ARE NEEDED. LIKE WITH STORMWATER CONSTRUCTION AND CONVERSION, PHASING, STREAM CROSSING SEQUENCING.

STOCKPILES REQUIREMENTS:

- DESIGN CRITERIA
 - 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).
 - STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25 FEET FROM ADJACENT PROPERTY LINES.
 - A NOTE SHALL BE PROVIDED ON THE APPROVED PLAN THAT STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
 - STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
 - APPROVED BMPs SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE.
 - STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
 - ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
 - OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY WAKE COUNTY UDO 14-19.2 AND WITH REQUIRED CERTIFICATIONS AND PERMITS.
- MAINTENANCE REQUIREMENTS TO BE NOTED ON THE PLAN
 - SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
 - IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
 - THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
 - ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).



MERITAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

Revisions / Submissions		
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Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
EROSION & SEDIMENT
CONTROL PHASE 1
AMENITY

C3.0



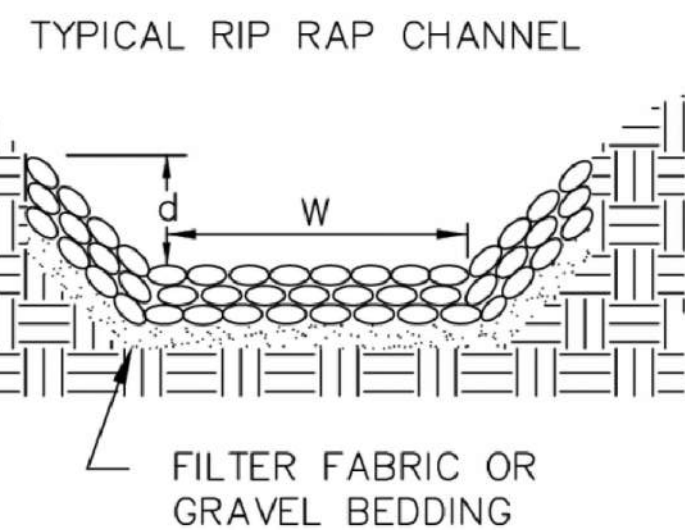
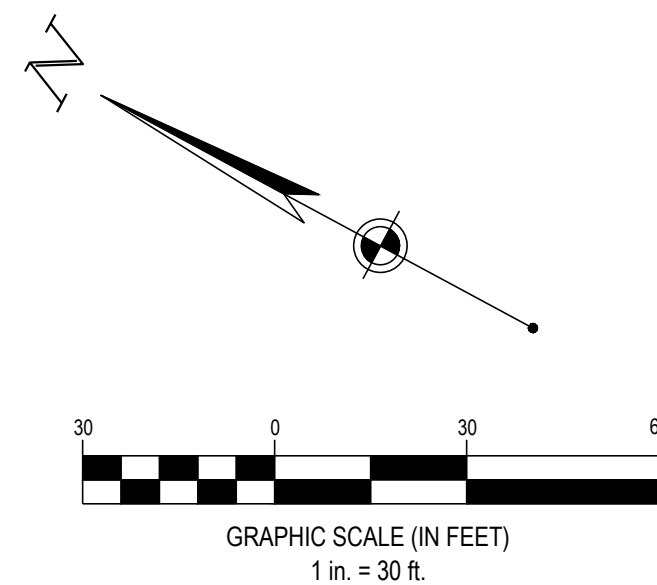
CESO



CESO NC CO. LICENSE NO: C-4740

MERTAGE HOME

**KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE**

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

TRAPEZOIDAL
SEE SHEET C3.6 FOR FULL DETAIL

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PROJECT NARRATIVE:

PLAN ENGINEERS: CESO, INC.
1000 LEGION PLACE SUITE 800
ORLANDO, FL 32801
EMAIL: GARRETT.GEORGE@CESOINC.COM
CONTACT: GARRETT GEORGE
ENGINEER OF RECORD: JEFFREY A. TIBBITTS

DEVELOPER: MERTAGE HOMES
3300 PARAMOUNT PARKWAY SUITE 120
MORRISVILLE, NC 27560
PHONE: (919) 322-2289
EMAIL: BILL.ROBINSON@MERTAGEHOMES.COM
CONTACT: WILLIAM ROBINSON

THE PROPOSED PROJECT IS THE CONSTRUCTION OF A DOG PARK AND OPEN SPACE FOR KALAS FALLS SUBDIVISION. THE SUBJECT PARCEL IS 1.41± ACRES.

SEQUENCE OF CONSTRUCTION

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBANCE PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS 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.
- CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- INSTALL STORM SEWER, IF IN THE APPROVED PLANS, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDEED AREAS PER GROUND STABILIZATION TIME FRAMES.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- IF THE 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, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.
- CONTACT WAKE COUNTY WATERSHED MANAGEMENT AT 919-856-7436 WHEN ADDITIONAL PHASES ARE NEEDED, LIKE WITH STORMWATER CONSTRUCTION AND CONVERSION, PHASING, STREAM CROSSING SEQUENCING.

STOCKPILES REQUIREMENTS:

- DESIGN CRITERIA
 - 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).
 - STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25 FEET FROM ADJACENT PROPERTY LINES.
 - A NOTE SHALL BE PROVIDED ON THE APPROVED PLAN THAT STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
 - STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
 - APPROVED BMPs SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE.
 - STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
 - ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
 - OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY WAKE COUNTY UDO 14-19-2 AND WITH REQUIRED CERTIFICATIONS AND PERMITS.
 - MAINTENANCE REQUIREMENTS TO BE NOTED ON THE PLAN
 - SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
 - IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
 - THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
 - ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

SWPPP LEGEND**EXISTING**

REFER TO C2.0 FOR EXISTING FEATURES LEGEND

PROPOSED

	MAJOR CONTOUR
	MINOR CONTOUR
	PAVEMENT/WALK
	LIMIT OF DISTURBANCE
	SILT FENCE
	TEMPORARY CONSTRUCTION EASEMENT
	BASIN DELINEATION LINE
	STABILIZED CONSTRUCTION ENTRANCE
	STORAGE AREA
	STABILIZED CONSTRUCTION ENTRANCE
	HAZARDOUS WASTE STORAGE AREA
	CONCRETE WASHOUT AREA
	INLET PROTECTION
	TRASH AREA
	CHECK DAM
	PERMANENT STABILIZATION
	SILT FENCE OUTLET

EROSION CONTROL PHASE 1 FLOW CALCULATIONS

DRAINAGE AREA ID	AREA (ACRES)	C	Time of Concentration (min)	INTENSITY IN/HR (10-YEAR STORM)	Q (CFS)
BASIN 10	0.79	0.35	15	4.86	1.34
BASIN 20	0.08	0.35	15	4.86	0.14
BASIN 30	0.18	0.35	15	4.86	0.31
BASIN 40	0.07	0.35	15	4.86	0.12
BASIN 50	1.63	0.35	15	4.86	2.77
BASIN 60	1.3	0.35	15	4.86	2.21
total	4.05				

EROSION CONTROL PHASE 1 FLOW CALCULATIONS

DRAINAGE AREA ID	SECTION	DRAINAGE AREA (ACRES)	w WIDTH (FT)	Q (CFS)	SIDE SLOPE	LONGITUDINAL SLOPE	d DEPTH (FT)	FLOW DEPTH (FT)	VELOCITY (FPS)
DITCH 10	TRAPEZOID	0.79	1	1.34	3 TO 1	1% MIN	0.5	0.47	0.37
DITCH 20	TRAPEZOID	0.08	1	0.14	3 TO 1	1% MIN	0.5	0.12	0.05
DITCH 30	TRAPEZOID	0.18	1	0.31	3 TO 1	1% MIN	0.5	0.20	0.11
DITCH 40	TRAPEZOID	0.07	1	0.12	3 TO 1	1% MIN	0.5	0.11	0.04
DITCH 50	TRAPEZOID	1.63	1	2.77	3 TO 1	1% MIN	1	0.73	0.67
DITCH 60	TRAPEZOID	1.3	1	2.21	3 TO 1	1% MIN	1	0.71	0.54

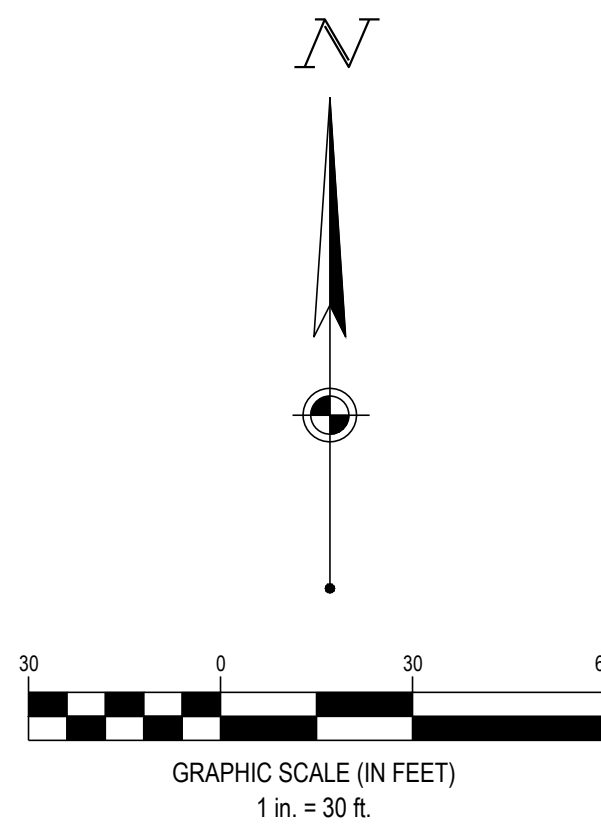
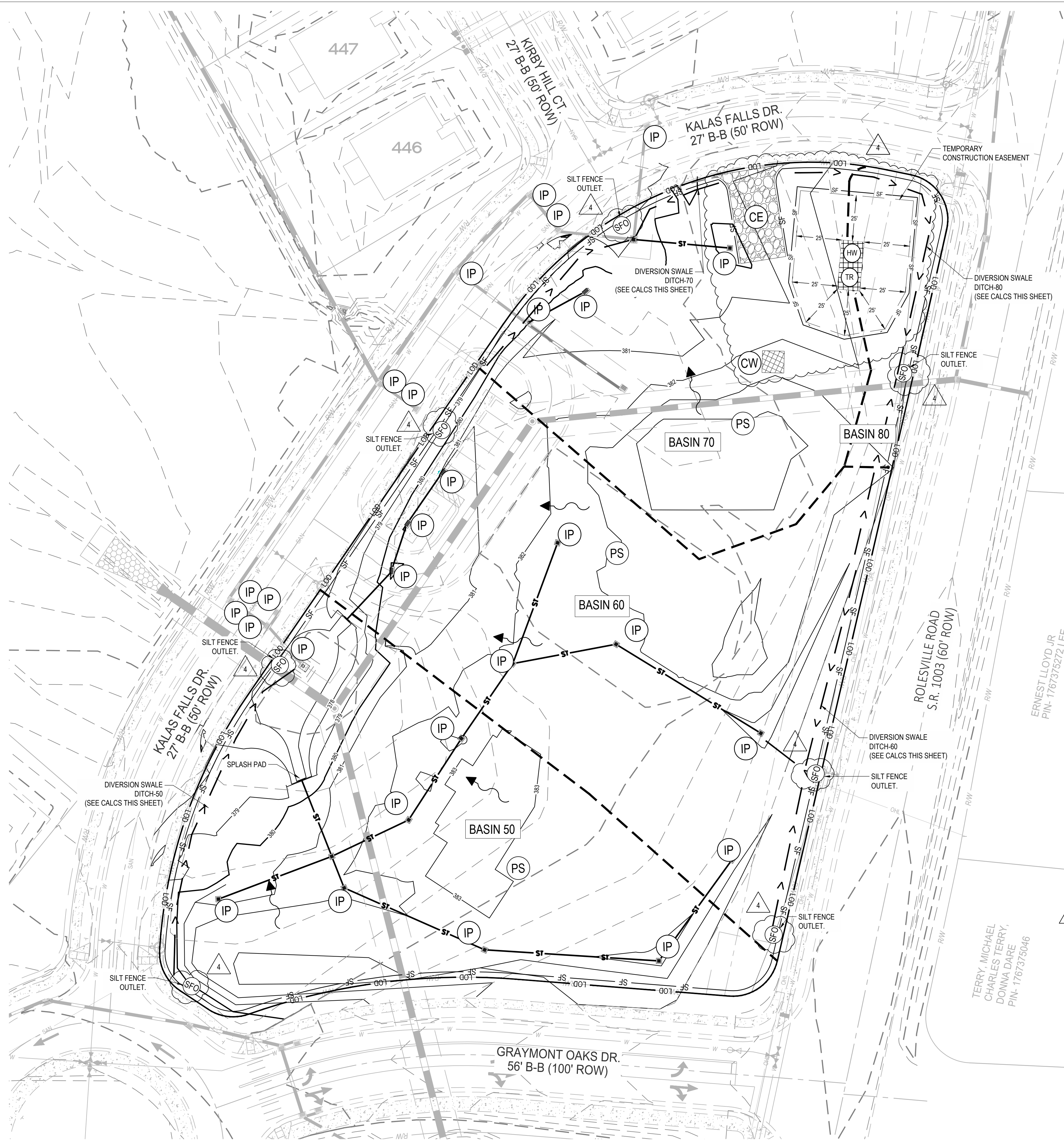
SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



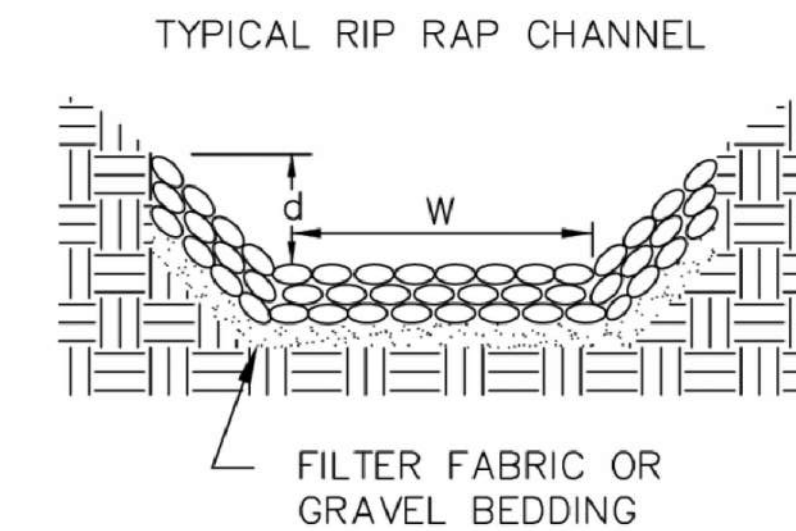
Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
**EROSION & SEDIMENT
CONTROL PHASE 1
OPEN SPACE & DOG
PARK**

C3.1



SWPPP LEGEND	
EXISTING	
REFER TO C2.0 FOR EXISTING FEATURES LEGEND	
PROPOSED	
	MAJOR CONTOUR
	MINOR CONTOUR
	PAVEMENT/WALK
	LIMIT OF DISTURBANCE
	SILT FENCE
	TEMPORARY CONSTRUCTION EASEMENT
	BASIN DELINEATION LINE
	STABILIZED CONSTRUCTION ENTRANCE
	STORAGE AREA
	STABILIZED CONSTRUCTION ENTRANCE
	HAZARDOUS WASTE STORAGE AREA
	CONCRETE WASHOUT AREA
	INLET PROTECTION
	TRASH AREA
	CHECK DAM
	PERMANENT STABILIZATION
	SILT FENCE OUTLET



TRAPEZOIDAL

SEE SHEET C3.6 FOR FULL DETAIL

EROSION CONTROL PHASE 2 FLOW CALCULATIONS					
DRAINAGE AREA ID	AREA (ACRES)	C	Time of Concentration (min)	INTENSITY IN/HR (10-YEAR STORM)	Q (CFS)
BASIN 10	0.79	0.35	15	4.86	1.34
BASIN 20	0.08	0.35	15	4.86	0.14
BASIN 30	0.12	0.35	15	4.86	0.20
BASIN 40	0.13	0.35	15	4.86	0.22
BASIN 50	0.97	0.35	5	7.2	2.44
BASIN 60	1.08	0.35	5	7.2	2.72
BASIN 70	0.72	0.35	5	7.2	1.81
BASIN 80	0.16	0.35	5	7.2	0.40
total	4.05				

EROSION CONTROL PHASE 2 FLOW CALCULATIONS									
DRAINAGE AREA ID	SECTION	DRAINAGE AREA (ACRES)	w WIDTH (FT)	Q (CFS)	SIDE SLOPE	LONGITUDINAL SLOPE	d DEPTH (FT)	FLOW DEPTH (FT)	VELOCITY (FPS)
DITCH 10	TRAPEZOID	0.79	1	1.34	3 TO 1	1% MIN	0.5	0.47	0.37
DITCH 20	TRAPEZOID	0.08	1	0.14	3 TO 1	1% MIN	0.5	0.12	0.05
DITCH 30	TRAPEZOID	0.12	1	0.20	3 TO 1	1% MIN	0.5	0.20	0.11
DITCH 40	TRAPEZOID	0.13	1	0.22	3 TO 1	1% MIN	0.5	0.11	0.04
DITCH 50	TRAPEZOID	0.97	1	2.44	3 TO 1	1% MIN	1	0.68	0.61
DITCH 60	TRAPEZOID	1.08	1	2.72	3 TO 1	1% MIN	1	0.73	0.67
DITCH 70	TRAPEZOID	0.72	1	1.81	4 TO 1	1% MIN	1	0.56	0.46
DITCH 80	TRAPEZOID	0.16	1	0.40	5 TO 1	1% MIN	0.5	0.20	0.11



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PROJECT NARRATIVE:

PLAN ENGINEERS: CESO, INC.
1000 LEGION PLACE SUITE 800
ORLANDO, FL 32801
EMAIL: GARRETT.GEORGE@CESOINC.COM
CONTACT: GARRETT GEORGE
ENGINEER OF RECORD: JEFFREY A. TIBBITTS

DEVELOPER: MERITAGE HOMES
3300 PARAMOUNT PARKWAY SUITE 120
MORRISVILLE, NC 27560
PHONE: (919) 322-2289
EMAIL: BILL.ROBINSON@MERITAGEHOMES.COM
CONTACT: WILLIAM ROBINSON

THE PROPOSED PROJECT IS THE CONSTRUCTION OF AN AMENITY CENTER FOR KALAS FALLS SUBDIVISION. THE SUBJECT PARCEL IS 2.84+ ACRES.

SEQUENCE OF CONSTRUCTION

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBANCE PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS 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.
- CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- INSTALL STORM SEWER, IF IN THE APPROVED PLANS, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
- 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 FRAMES.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- IF THE 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, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.
- CONTACT WAKE COUNTY WATERSEWER MANAGEMENT AT 919-856-7436 WHEN ADDITIONAL PHASES ARE NEEDED, LIKE WITH STORMWATER CONSTRUCTION AND CONVERSION, PHASING, STREAM CROSSING SEQUENCING.

STOCKPILES REQUIREMENTS:

- DESIGN CRITERIA
 - 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).
 - STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25 FEET FROM ADJACENT PROPERTY LINES.
 - A NOTE SHALL BE PROVIDED ON THE APPROVED PLAN THAT STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
 - STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
 - APPROVED BMPs SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE.
 - STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
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- MAINTENANCE REQUIREMENTS TO BE NOTED ON THE PLAN
 - SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
 - IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
 - THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
 - ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).



CESO NC CO. LICENSE NO: C-4740

MERITAGE HOME

**KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE**
1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

Revisions / Submissions		
ID	Description	Date
01	ROLESVILLE COMMENTS	12/19/2025
02	ROLESVILLE COMMENTS	02/19/2026
03	AHJ COMMENTS	03/31/2026
04	WAKE COUNTY COMMENTS	07/20/2026

Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
**EROSION & SEDIMENT
CONTROL PHASE 2
AMENITY**

C3.2



CESO



CESO NC CO. LICENSE NO: C-4740

MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

Revisions / Submissions

ID	Description	Date
01	ROLESVILLE COMMENTS	12/19/2025
02	ROLESVILLE COMMENTS	02/18/2026
03	AHJ COMMENTS	03/31/2026
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Project Number: 766740-01 / -02
Scale: AS SHOWN

Drawn By: RM

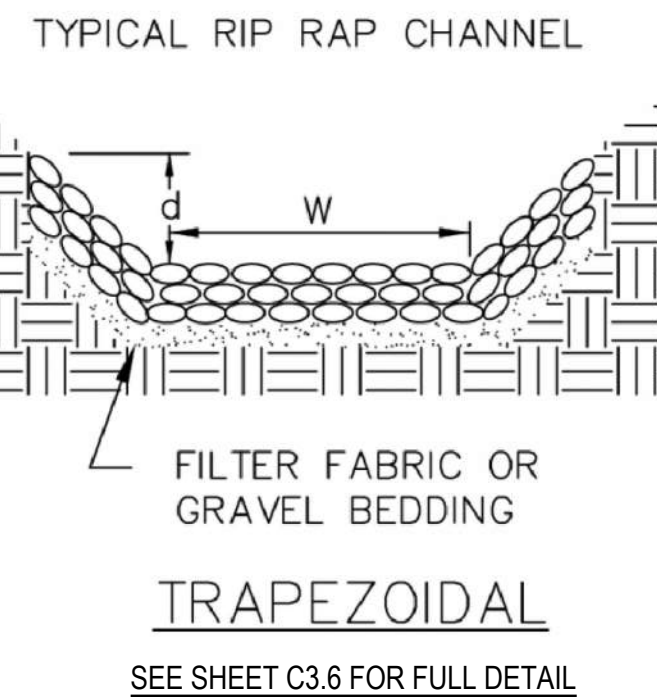
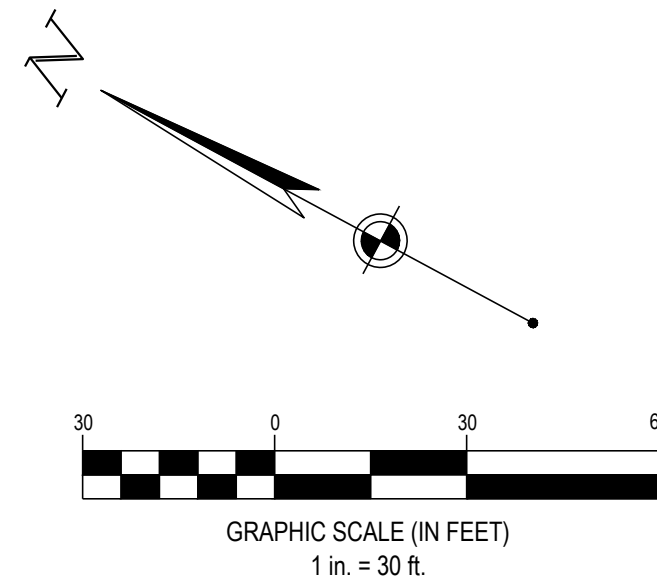
Checked By: CG

Date: 10/31/2025

Issue: FOR CONSTRUCTION

Drawing Title:
**EROSION & SEDIMENT
CONTROL PHASE 2
OPEN SPACE & DOG
PARK**

C3.3



STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PROJECT NARRATIVE:

PLAN ENGINEERS: CESO, INC.
1000 LEGION PLACE SUITE 800
ORLANDO, FL 32801
EMAIL: GARRETT.GEORGE@CESOINC.COM
CONTACT: GARRETT GEORGE
ENGINEER OF RECORD: JEFFREY A. TIBBITTS

DEVELOPER: MERTAGE HOMES
3300 PARAMOUNT PARKWAY SUITE 120
MORRISVILLE, NC 27560
PHONE: (919) 322-2289
EMAIL: BILL.ROBINSON@MERTAGEHOMES.COM
CONTACT: WILLIAM ROBINSON

THE PROPOSED PROJECT IS THE CONSTRUCTION OF AN AMENITY CENTER FOR KALAS FALLS SUBDIVISION. THE SUBJECT PARCEL IS 2.94± ACRES.

SEQUENCE OF CONSTRUCTION

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBANCE PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS 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.
- CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.
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- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- IF THE 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, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.
- CONTACT WAKE COUNTY WATERSHED MANAGEMENT AT 919-866-7436 WHEN ADDITIONAL PHASES ARE NEEDED. LIKE WITH STORMWATER CONSTRUCTION AND CONVERSION, PHASING, STREAM CROSSING SEQUENCING.

STOCKPILES REQUIREMENTS:

- DESIGN CRITERIA
25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).
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APPROVED BMPs SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE.
STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
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OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL. PRIOR TO DISPOSAL, FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY WAKE COUNTY UDO 14-19-2 AND WITH REQUIRED CERTIFICATIONS AND PERMITS.
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THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

SWPPP LEGEND	
EXISTING	
REFER TO C2.1 FOR EXISTING FEATURES LEGEND	
PROPOSED	
	MAJOR CONTOUR
	MINOR CONTOUR
	PAVEMENT/WALK
	LIMIT OF DISTURBANCE
	SILT FENCE
	Basin Delineation Line
	STABILIZED CONSTRUCTION ENTRANCE
	STORAGE AREA
	STABILIZED CONSTRUCTION ENTRANCE
	HAZARDOUS WASTE STORAGE AREA
	CONCRETE WASHOUT AREA
	INLET PROTECTION
	TRASH AREA
	SILT FENCE OUTLET

EROSION CONTROL PHASE 2 FLOW CALCULATIONS					
DRAINAGE AREA ID	AREA (ACRES)	C	Time of Concentration (min)	INTENSITY IN/HR (10-YEAR STORM)	Q (CFS)
BASIN 10	0.79	0.35	15	4.86	1.34
BASIN 20	0.08	0.35	15	4.86	0.14
BASIN 30	0.12	0.35	15	4.86	0.20
BASIN 40	0.13	0.35	15	4.86	0.22
BASIN 50	0.97	0.35	5	7.2	2.44
BASIN 60	1.08	0.35	5	7.2	2.72
BASIN 70	0.72	0.35	5	7.2	1.81
BASIN 80	0.16	0.35	5	7.2	0.40
total	4.05				

EROSION CONTROL PHASE 2 FLOW CALCULATIONS									
DRAINAGE AREA ID	SECTION	DRAINAGE AREA (ACRES)	w WIDTH (FT)	Q (CFS)	SIDE SLOPE	LONGITUDINAL SLOPE	d DEPTH (FT)	FLOW DEPTH (FT)	VELOCITY (FPS)
DITCH 10	TRAPEZOID	0.79	1	1.34	3 TO 1	1% MIN	0.5	0.47	0.37
DITCH 20	TRAPEZOID	0.08	1	0.14	3 TO 1	1% MIN	0.5	0.12	0.05
DITCH 30	TRAPEZOID	0.12	1	0.20	3 TO 1	1% MIN	0.5	0.20	0.11
DITCH 40	TRAPEZOID	0.13	1	0.22	3 TO 1	1% MIN	0.5	0.11	0.04
DITCH 50	TRAPEZOID	0.97	1	2.44	3 TO 1	1% MIN	1	0.68	0.61
DITCH 60	TRAPEZOID	1.08	1	2.72	3 TO 1	1% MIN	1	0.73	0.67
DITCH 70	TRAPEZOID	0.72	1	1.81	4 TO 1	1% MIN	1	0.56	0.46
DITCH 80	TRAPEZOID	0.16	1	0.40	5 TO 1	1% MIN	0.5	0.20	0.11



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



CESO



CESO NC CO. LICENSE NO: C-4740

MERITAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

Revisions / Submissions			
ID	Description	Date	
01	ROLESVILLE COMMENTS	12/19/2025	
02	ROLESVILLE COMMENTS	02/18/2026	
03	AHJ COMMENTS	03/31/2026	
04	WAKE COUNTY COMMENTS	07/20/2026	

Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
**EROSION CONTROL
NOTES**

C3.4

SEVENTY-TWO (72) HOURS
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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

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.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10 feet 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

Note: After the permanent cessation of construction activities, any areas with temporary 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 - Rollled 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 (PRSM) - 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 - Rollled erosion control products with grass seed

Note: The use of techniques listed above which promote and assist in establishment of vegetation does not constitute permanent stabilization prior to the establishment of permanent vegetation.

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 offsite.
- 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.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- 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.
- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

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

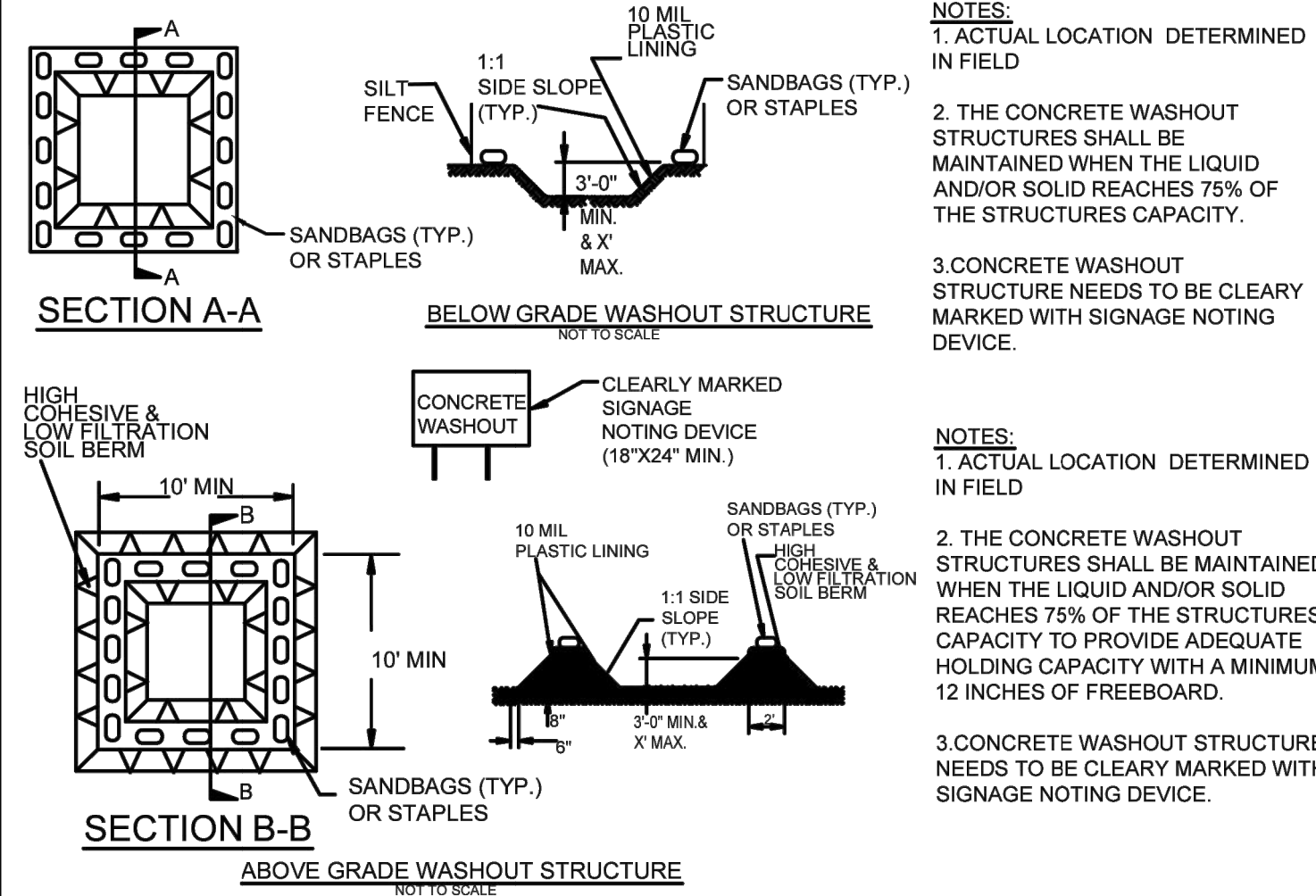
EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets and surface waters unless it can be shown no other alternatives are reasonably available. It is recommended to locate stockpile areas at least 50 feet away from skimmer basins and anywhere stormwater flow is concentrated.
- 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 as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HAZARDOUS AND TOXIC WASTE

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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- 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.
- 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 restrictions.
- 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.

GROUND COVER & MATERIALS HANDLING

Effective:
April 1, 2024



766740_C3.4 EROSION & SEDIMENT CONTROL NOTES & DETAILS.dwg



INSPECTION, RECORD KEEPING AND REPORTING

Effective:
April 1, 2024

SEVENTY-TWO (72) HOURS
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MERITAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE
1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
**EROSION CONTROL
NOTES**

C3.5

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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 on holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (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 $\geq$ 1.0 inch in 24 hours.	1. Identification of the measures inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Indication of whether the measures were operating properly 5. Description of maintenance needs for the measure 6. Description, Evidence, and date of corrective actions taken
(3) Stormwater discharge outfalls(SDOs)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 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 corrective actions taken
(4) Perimeter of Site	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours.	If visible Sedimentation is found outside site limits, then record of the following shall be made: 1) Actions taken to clean up or stabilize sediment that has left the site limits 2) Description, Evidence and date of corrective actions taken 3) An explanation as to the actions taken to control future releases
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours.	If the stream or wetland has increased visible sedimentation or 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 2) Records of 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 assurance that they will be provided as soon as possible.

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

PART III 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	Document 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]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

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

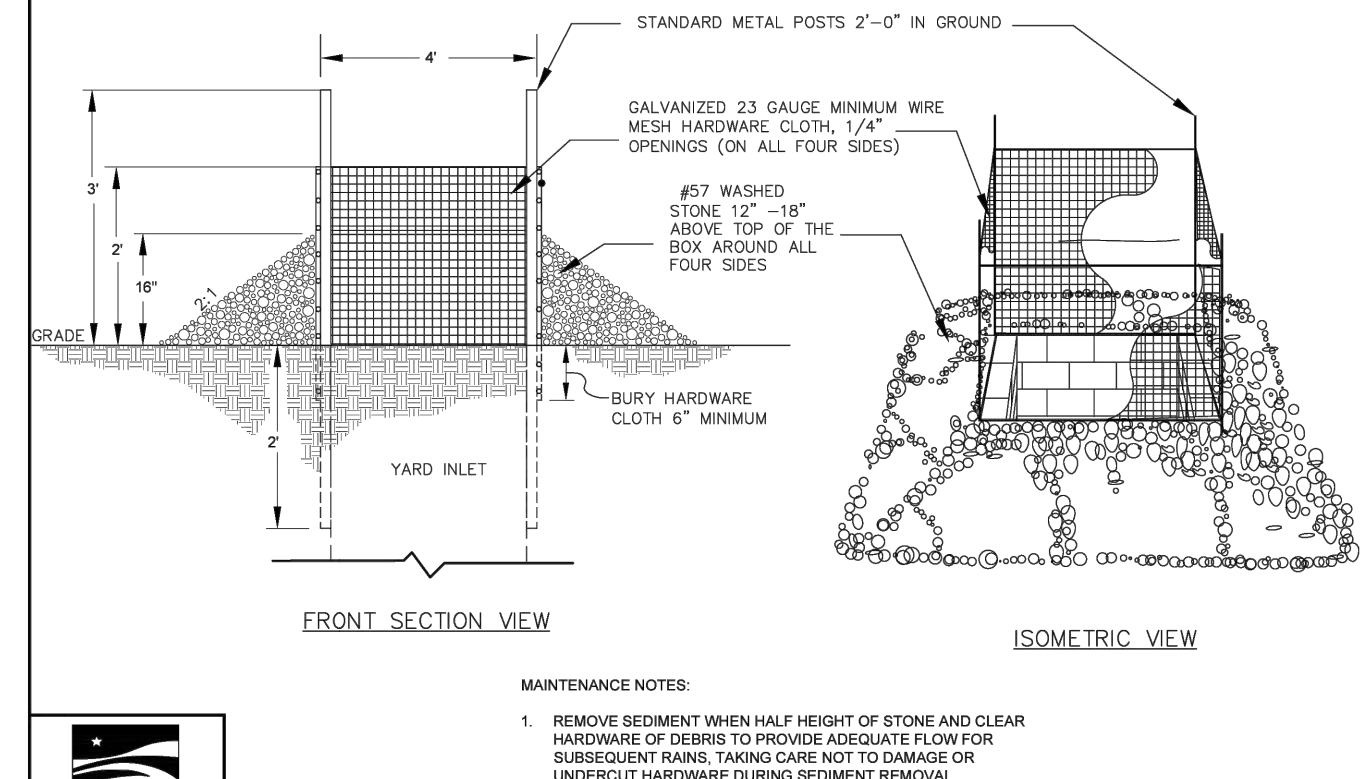
2. Reporting Timeframes and Other Requirements

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) 858-0368.

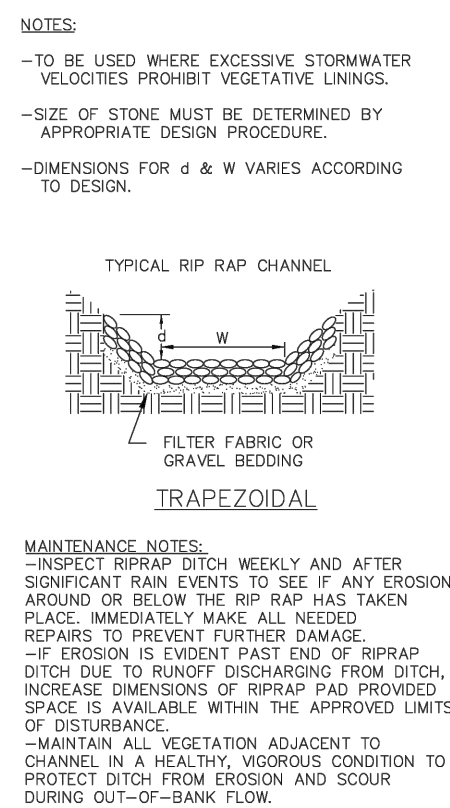
Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	- Within 24 hours, an oral or electronic notification. - Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. - If the stream is named on the NC 303(d) list as impaired for sediment-related caused, 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.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	Within 24 Hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	- Within 24 Hours, an oral or electronic notification - Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	- Within 24 Hours, an oral or electronic notification - Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). - Division staff may waive the requirement for a written report on a case-by-case basis.

SEEDING MIXTURE	80 LBS/ACRE OF TALL FESCUE	100 LBS/ACRE TALL FESCUE 30 LBS/ACRE SERICEA LESPEDEZA (UNSCARIFIED AFTER AUGUST 15) 10 LBS/ACRE KOBE LESPEDEZA
SEEDING DATES	FALL: AUGUST 25 - OCTOBER LATE WINTER: FEBRUARY 15 - APRIL 15 TO EXTEND SPRING SEEDING INTO JUNE, ADD 15 LBS/ACRE HULLED BERMUDA GRASS OVERSEEDING OF KOBE LESPEDEZA OVER FALL-SEEDED TALL FESCUE IS VERY EFFECTIVE.	FALL: AUGUST 25 - OCTOBER 15 LATE WINTER: FEBRUARY 15 - APRIL 15 TO EXTEND SPRING SEEDING INTO JUNE, ADD 15 LBS/ACRE HULLED BERMUDA GRASS OVERSEEDING OF KOBE LESPEDEZA OVER FALL-SEEDED TALL FESCUE IS VERY EFFECTIVE.
SEEDING AMENDMENTS	APPLY LIME AND FERTILIZER PER SOIL TESTS, OR 4000 LBS/ACRE LIMESTONE AND 1000 LBS/ACRE 10-10-10	APPLY LIME AND FERTILIZER PER SOIL TESTS, OR 4000 LBS/ACRE LIMESTONE AND 1000

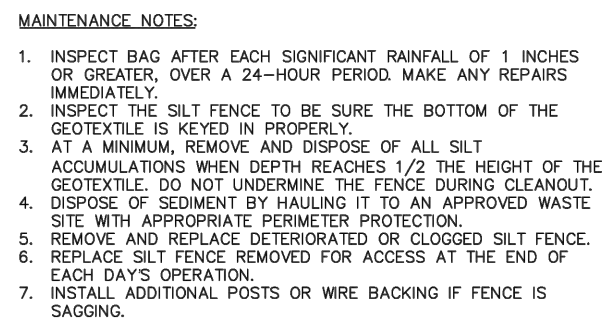
SEEDING SCHEDULE



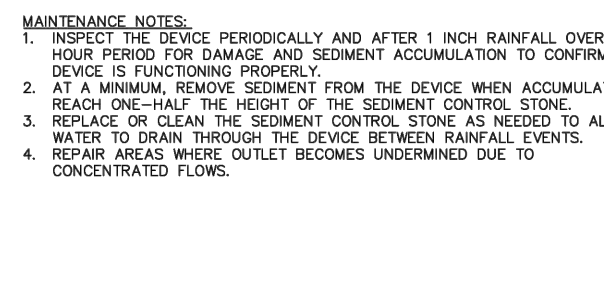
STANDARD GRAVEL YARD INLET PROTECTION



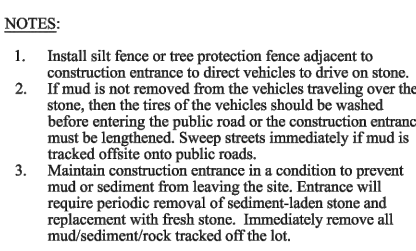
STANDARD RIP-RAP LINED CHANNELS



STANDARD TEMPORARY SILT FENCE



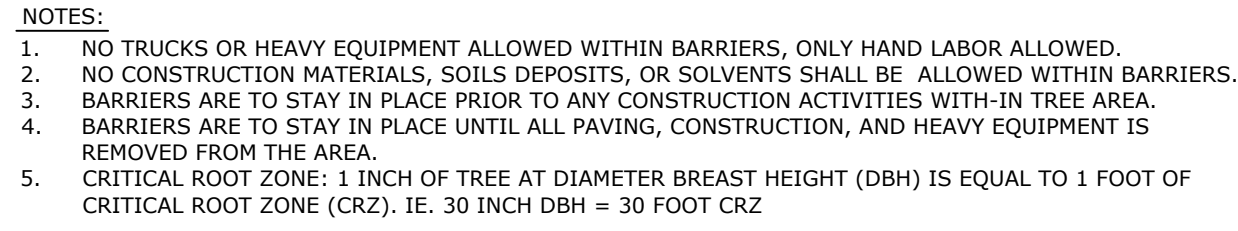
STANDARD SILT FENCE OUTLET



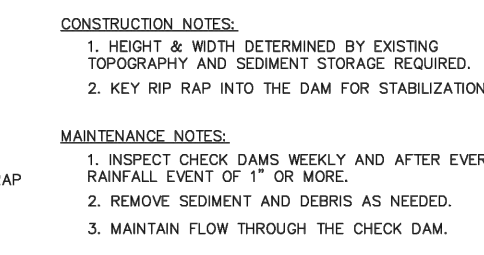
STANDARD RESIDENTIAL CONSTRUCTION ENTRANCE DETAIL



STANDARD TEMPORARY SLOPE DRAIN



TREE PROTECTION FENCING



STANDARD CHECK DAM

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MERITAGE HOME

KALAS FALLS PHASE 2 AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD
WAKE COUNTY, NC

Revisions / Submissions		
ID	Description	Date
01	ROLESVILLE COMMENTS	12/19/2025
02	ROLESVILLE COMMENTS	02/18/2026
03	AHJ COMMENTS	03/31/2026
04	WAKE COUNTY COMMENTS	07/20/2026

Project Number:	766740-01 / -02
Scale:	AS SHOWN
Drawn By:	RM
Checked By:	CO
Date:	10/31/2021
Issue:	FOR CONSTRUCTION

Drawing Title:

EROSION CONTROL DETAILS

C3.6

GROUND STABILIZATION
PER NCG01 NPDES STORMWATER DISCHARGE PERMIT
FOR CONSTRUCTION ACTIVITIES

REQUIRED GROUND STABILIZATION TIMEFRAMES

1.

PERIMETER DIKES, SWALES, DITCHES, AND PERIMETER SLOPES

-

Stabilize within 7 calendar days after ceasing land disturbance.

-

No variations.
2.

HIGH QUALITY WATER (HQW) ZONES

-

Stabilize within 7 calendar days after ceasing land disturbance.

-

No variations.
3.

SLOPES STEEPER THAN 3:1

-

Stabilize within 7 calendar days after ceasing land disturbance.

-

Exception: Slopes 10 feet or less in length and not steeper than 2:1 may be stabilized within 14 calendar days.
4.

SLOPES 3:1 TO 4:1

-

Stabilize within 14 calendar days after ceasing land disturbance.

-

Stabilize within 7 calendar days for:

a.

Slopes greater than 50 feet in length and steeper than 4:1.

b.

Perimeter dikes, swales, ditches, perimeter slopes, and HQW zones.

-

Stabilize within 10 calendar days in the Falls Lake Watershed.
5.

SLOPES FLATTER THAN 4:1

-

Stabilize within 14 calendar days after ceasing land disturbance.

-

Stabilize within 7 calendar days for perimeter dikes, swales, ditches, perimeter slopes, and HQW zones.

-

Stabilize within 10 calendar days in the Falls Lake Watershed unless the slope is zero.

NOTE:
After permanent cessation of construction activities, areas with temporary stabilization shall be converted to permanent stabilization as soon as practicable, but no later than 90 calendar days after the last land-disturbing activity. Temporary stabilization shall be maintained until permanent stabilization is achieved.

GROUND STABILIZATION SPECIFICATIONS

TEMPORARY STABILIZATION METHODS

- Temporary grass seeding with straw mulch and tackifier.
- Hydroseeding.
- Rolled erosion control products, with or without temporary grass seed.
- Straw or other approved mulch.
- Plastic sheeting.

PERMANENT STABILIZATION METHODS

- Permanent grass seeding with straw mulch and tackifier.
- Geotextile fabrics or permanent soil reinforcement matting.
- Hydroseeding.
- Shrubs or other permanent plantings with mulch.
- Uniform, evenly distributed ground cover sufficient to restrain erosion.
- Structural stabilization including concrete, asphalt, or retaining walls.
- Rolled erosion control products with grass seed.

SEEDBED PREPARATION

1.

Chisel compacted areas and spread 3 inches of topsoil over adverse soil conditions, if available.
2.

Rip entire area to a depth of 6 inches.
3.

Remove loose rock, roots, and other obstructions.
4.

Apply agricultural lime, fertilizer, and superphosphate

- uniformly and mix into soil.
5.

Continue tillage until a well-pulverized, firm, uniform seedbed is prepared to a depth of 4 to 6 inches.
6.

Seed on freshly prepared seedbed and lightly cover or cultipack.
7.

Mulch immediately after seeding and anchor mulch.
8.

Inspect seeded areas and repair or reseed as required. If vegetation is more than 60% damaged, re-establish using original lime, fertilizer, and seed rates.
9.

Consult applicable Soil & Water Conservation District or Cooperative Extension Service for maintenance and fertilization recommendations after permanent cover is established.

SEEDING MIXTURE APPLICATION RATES

AGRICULTURAL LIMESTONE

- 2 tons/acre
- 3 tons/acre in clay soils

FERTILIZER

- 1,000 lbs/acre (10-10-10)

SUPERPHOSPHATE

- 500 lbs/acre (20% analysis)

MULCH OR SMALL GRAIN STRAW

- 2 tons/acre

ANCHOR

- Asphalt emulsion at 400 gal/acre

SEEDING SCHEDULE

SHOULDERS, SIDE DITCHES, AND SLOPES (MAXIMUM 3:1)

- AUG 15 - NOV 1

-

Tall Fescue 300 lbs/acre

- NOV 1 - MAR 1

-

Tall Fescue & Abruzzi Rye 300 lbs/acre

- MAR 1 - APR 15

-

Tall Fescue 300 lbs/acre

- APR 15 - JUN 30

-

Hulled Common Bermudagrass 25 lbs/acre

- JUL 1 - AUG 15

-

Tall Fescue 125 lbs/acre

-

Browntop Millet 35 lbs/acre

-

Sorghum-Sudan Hybrid 30 lbs/acre

SHOULDERS, SIDE DITCHES, AND SLOPES (3:1 TO 2:1)

- MAR 1 - JUN 1

-

Sericea Lespedeza (Scarified) 50 lbs/acre

- MAR 1 - APR 15

-

Add Tall Fescue 120 lbs/acre

- MAR 1 - JUN 30

-

Add Weeping Lovegrass 10 lbs/acre

-

Add Hulled Common Bermudagrass 25 lbs/acre

- JUN 1 - SEP 1

-

Tall Fescue 120 lbs/acre

-

Browntop Millet 35 lbs/acre

-

Sorghum-Sudan Hybrid 30 lbs/acre

- SEP 1 - MAR 1

-

Sericea Lespedeza (Unhulled/Unscarified) 70 lbs/acre

-

Tall Fescue 120 lbs/acre

- NOV 1 - MAR 1

-

Add Abruzzi Rye 25 lbs/acre

NOTE:

For Sorghum-Sudan Hybrids, reseed according to the optimum season for the desired permanent vegetation. Do not allow temporary cover to exceed 12 inches in height before mowing, otherwise fescue may be shaded out.

Consult the local Soil & Water Conservation District or Cooperative Extension Service for additional stabilization recommendations.



CESO NC, CO. LICENSE NO: C-4740

MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

Revisions / Submissions		
ID	Description	Date
01	ROLESVILLE COMMENTS	12/19/2025
02	ROLESVILLE COMMENTS	02/18/2026
03	AHJ COMMENTS	03/31/2026
04	WAKE COUNTY COMMENTS	07/20/2026

Project Number:	766740-01 / -02
Scale:	AS SHOWN
Drawn By:	RM
Checked By:	CG
Date:	10/31/2025
Issue:	FOR CONSTRUCTION

Drawing Title:
**SEEDING
SPECIFICATION NOTES**

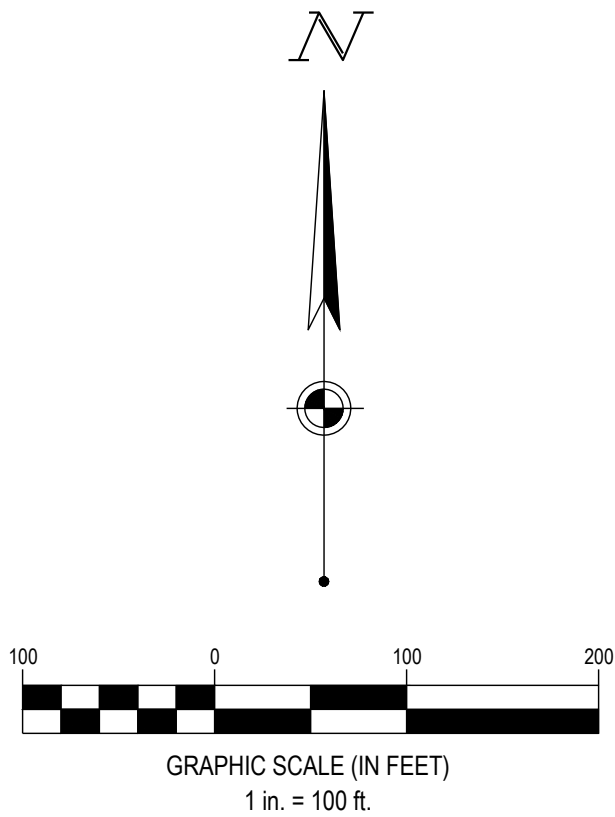
C3.7



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



EXISTING FEATURES LEGEND			
APPLIES TO ALL CIVIL SHEETS			
	R/W		RIGHT OF WAY
			PARCEL LINE
			PROPERTY BOUNDARY
			EASEMENT
			CURB
			EDGE OF PAVEMENT
			EDGE OF WALK
			PAVEMENT MARKINGS
	W		WATER LINE
	UGE		UNDERGROUND ELECTRIC
	UGT		UNDERGROUND TELE
	OHL		OVERHEAD LINE
	STM		STORM SEWER
	SAN		SANITARY SEWER
	100		MAJOR CONTOURS
	102		MINOR CONTOURS
	Ⓜ		WATER METER
	Ⓢ		WATER VALVE
	Ⓟ		POWER/TELE POLE
	Ⓟ		POWER POLE
	Ⓢ		AIR CONDITIONER
	Ⓢ		ELECTRIC BOX
	Ⓢ		LIGHT POLE
	Ⓢ		GAS VALVE
	Ⓢ		GAS METER
	Ⓢ		STORM CATCH BASIN
	Ⓢ		STORM INLET BASIN
	Ⓢ		STORM MANHOLE
	Ⓢ		STORM CLEANOUT
	Ⓢ		SANITARY MANHOLE
	Ⓢ		SANITARY CLEANOUT
	Ⓢ		TRAFFIC MANHOLE
	Ⓢ		SIGN
	Ⓢ		TELEPHONE POLE



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



CESO NC CO. LICENSE NO: C-4740

MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

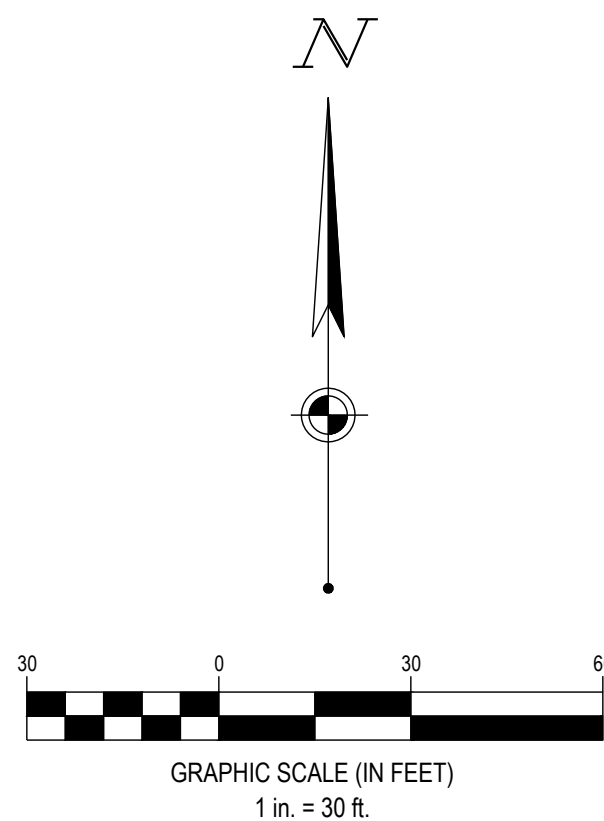
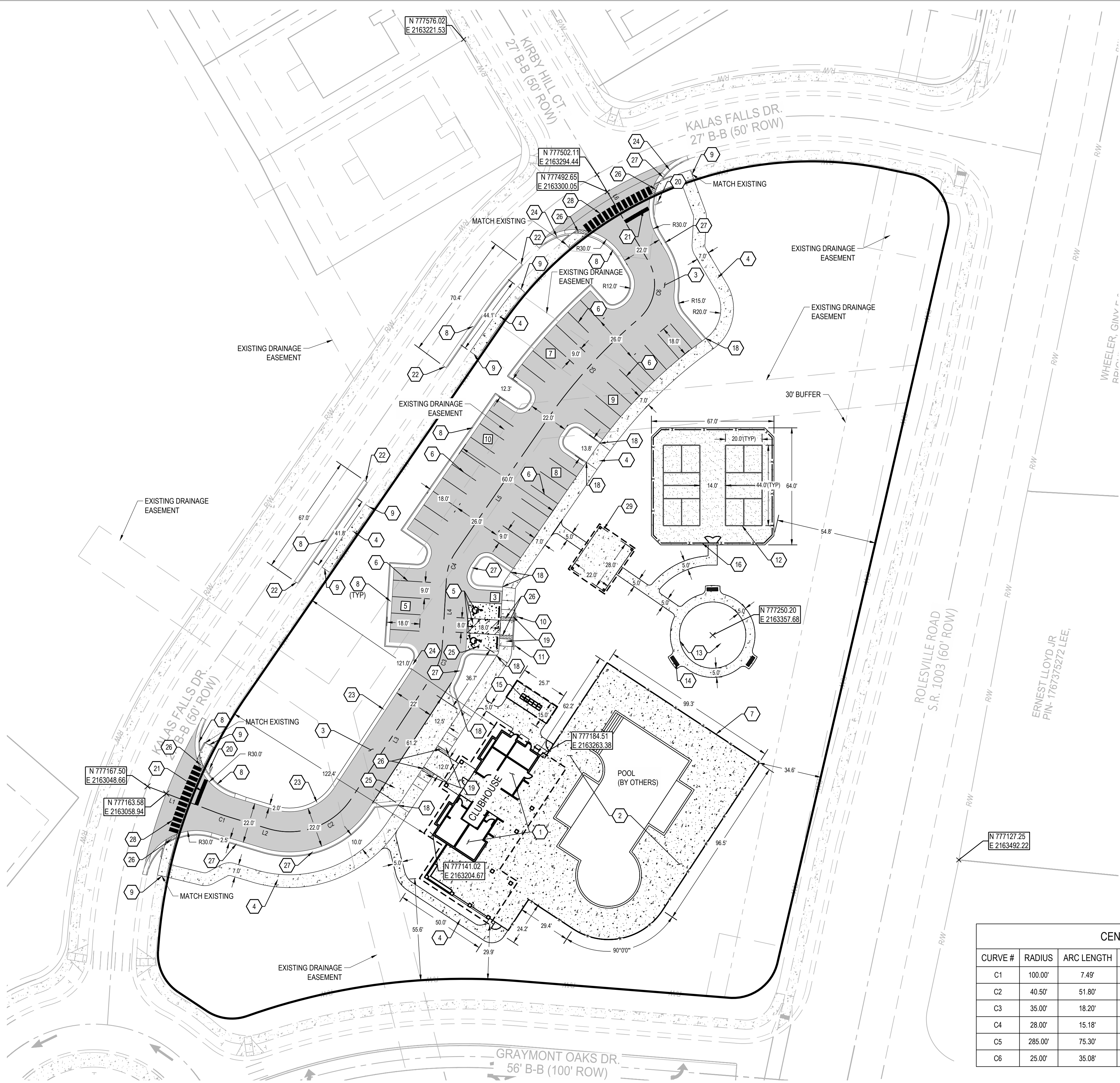
1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

Revisions / Submissions		
ID	Description	Date
01	ROLESVILLE COMMENTS	12/19/2025
02	ROLESVILLE COMMENTS	02/18/2026
03	AHJ COMMENTS	03/31/2026
04	WAKE COUNTY COMMENTS	07/20/2026

Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
OVERALL SITE PLAN

C4.0



SITE LEGEND	
EXISTING	
REFER TO C2.0 FOR EXISTING FEATURES LEGEND	
PROPOSED	
	PROPOSED STANDARD DUTY ASPHALT PAVEMENT (8" CABC & 3" S9.5B)
	PROPOSED CONCRETE PAVEMENT / SIDEWALK
	PROPOSED CONCRETE PAVEMENT - PICKLEBALL COURTS
	PROPERTY BOUNDARY LINE
	RIGHT-OF-WAY
	SETBACK
	EASEMENT
	CENTERLINE
	CONCRETE CURB
	FENCE (VARIES)
	PARKING SPACE COUNT
	SIGN
	DETECTABLE WARNING MAT.
	FIRE HYDRANT
	LIGHT POLE
	PARKING BLOCK SEE DETAIL SHEET C7.0

GENERAL NOTES:
SEE SHEET C1.1

CODED NOTES:

- PROPOSED 3,343± SF CLUBHOUSE BUILDING. (ADDRESS: 525 KALAS FALLS DRIVE)
- PROPOSED POOL AND POOL DECK TO BE DESIGNED AND PERMITTED BY OTHERS. (ADDRESS: 523 KALAS FALLS DRIVE)
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT (8" CABC & 3" S9.5B).
- PROPOSED CONCRETE SIDEWALK. SEE DETAIL ON SHEET C7.0
- PROPOSED ADA ACCESSIBLE PARKING SPACE. SEE DETAIL ON SHEET C7.0
- PROPOSED PARKING LOT PAVEMENT MARKINGS.
- PROPOSED POOL FENCE. POOL FENCE TO BE PROVIDED BY POOL DESIGNER AND MUST MEET POOL CODE REQUIREMENTS.
- PROPOSED STANDARD CURB AND GUTTER. SEE DETAIL ON SHEET C7.0
- CONNECT TO EXISTING SIDEWALK.
- PROPOSED ACCESSIBLE PARKING SIGN "VAN ACCESSIBLE" TO BE INSTALLED PER MUTCD. SEE DETAIL SHEET C7.0.
- PROPOSED ACCESSIBLE PARKING SIGN TO BE INSTALLED PER MUTCD. SEE DETAIL SHEET C7.0.
- PROPOSED PICKLEBALL COURTS. REFER TO LANDSCAPE ARCHITECT SET FOR DETAILS. (ADDRESS: 515 KALAS FALLS DRIVE)
- PROPOSED TOT LOT AREA TO BE SPECIFIED IN LANDSCAPE FURNISHING PLANS.
- PROPOSED BENCH TO BE SPECIFIED IN LANDSCAPE FURNISHING PLANS.
- PROPOSED MAIL KIOSK WITH 6" CONCRETE PAD. REFER TO FINAL LANDSCAPE ARCHITECT SET FOR DETAILS ADDITIONALLY SEE SHEET C7.2. (ADDRESS: 521 KALAS FALLS DRIVE.)
- PROPOSED PICKLEBALL COURT FENCE. REFERENCE FINAL LANDSCAPE PLANS.
- ~~17. REMOVED~~
- CURB TRANSITION FROM CURB AND GUTTER TO INTEGRAL CURB. SEE DETAIL SHEET C7.0.
- ADA RAMPS WITH 5' LANDINGS.
- PROPOSED STOP SIGN (R1-1) TO BE INSTALLED PER MUTCD.
- PROPOSED STOP BAR PAVEMENT MARKING.
- CONNECT TO EXISTING CURB AND GUTTER.
- PROPOSED RIBBON CURB. SEE DETAIL ON SHEET C7.0.
- PROPOSED CURB TAPER. SEE DETAIL C7.0.
- PROPOSED LIGHT DUTY BITUMINOUS CONCRETE. SEE DETAIL ON SHEET C7.0.
- PROPOSED TRUNCATED DOME
- PROPOSED SPILL TYPE CURB
- PROPOSED CROSSWALK STRIPING PER NCDOT DETAIL 1205.07.
- PROPOSED ±616 SF COVERED PAVILION

NOTE:

- N; & E: VALUES ARE ON ASSUMED COORDINATE PLANE, AND ARE NOT ASSUMED TO BE PRESENT ON STATE PLANE COORDINATE SYSTEM.
- CONDITIONS OF APPROVAL PER APPROVED SUBDIVISION KALAS FALLS PHASE 2.
- AMENITY

TOTAL AREA: 2.93 AC
IMPERVIOUS AREA: 1.22 AC

CENTERLINE LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	40.537	N69° 06' 05.04"W
L2	22.064	N73° 23' 37.03"W
L3	80.135	S33° 19' 15.52"W
L4	36.425	S03° 31' 54.46"W
L5	87.452	S34° 35' 42.38"W
L6	54.859	S30° 40' 31.17"E

CENTERLINE CURVE TABLE						
CURVE #	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA	TANGENT
C1	100.00'	7.49'	7.49'	N71° 14' 51"W	004° 17' 32"	3.75'
C2	40.50'	51.80'	48.34'	S69° 57' 49"W	073° 17' 07"	30.12'
C3	35.00'	18.20'	17.99'	S18° 28' 35"W	029° 47' 21"	9.31'
C4	28.00'	15.18'	15.00'	S19° 03' 48"W	031° 03' 48"	7.78'
C5	285.00'	75.30'	75.08'	S42° 09' 51"W	015° 08' 17"	37.87'
C6	25.00'	35.08'	32.28'	S09° 31' 44"W	080° 24' 31"	21.13'



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CESO NC CO. LICENSE NO: C-4740

MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

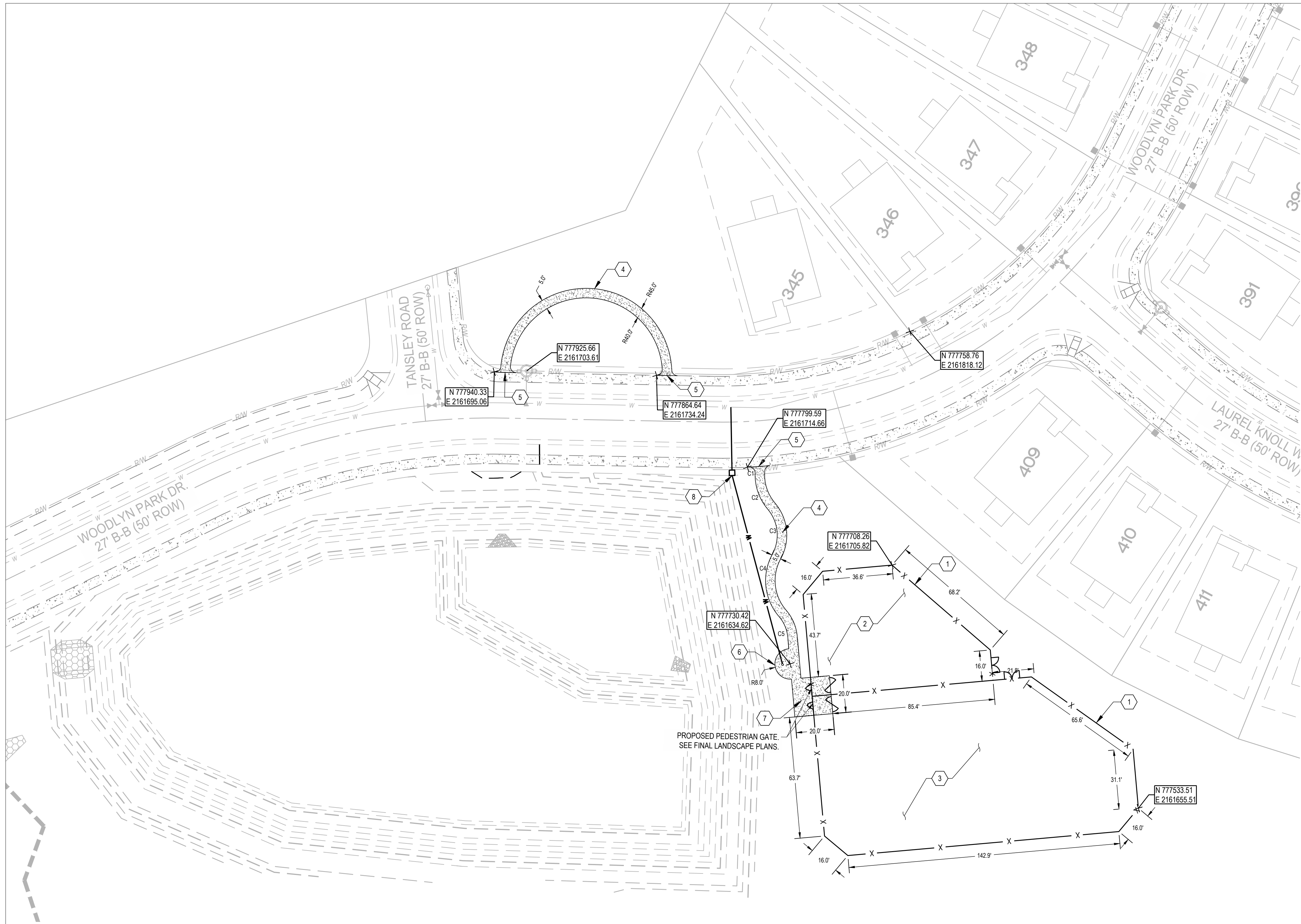
Revisions / Submissions		
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Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:

SITE PLAN
AMENITY AREA

C4.1



SITE LEGEND	
EXISTING	
REFER TO C2.0 FOR EXISTING FEATURES LEGEND	
PROPOSED	
	PROPOSED CONCRETE PAVEMENT/ SIDEWALK
	RIGHT-OF-WAY
	PROPERTY LINE
	SETBACK
	EASEMENT
	CENTERLINE
	CONCRETE CURB
	PAVEMENT/WALK
	FENCE
	PARKING SPACE COUNT
	SIGN
	DETECTABLE WARNING MAT.
	FIRE HYDRANT
	LIGHT POLE
	CONCRETE BUMPER BLOCK

GENERAL NOTES:

SEE SHEET C1.1

CODED NOTES:

- PROPOSED 48" HT FENCE.
- PROPOSED SMALL DOG PARK.
- PROPOSED LARGE DOG PARK.
- PROPOSED CONCRETE SIDEWALK.
- CONNECT TO EXISTING SIDEWALK.
- PROPOSED DOG WASH STATION.
- PROPOSED SALLY PORT ENTRY.
- PROPOSED 3/4" WATER LINE WITH METER.

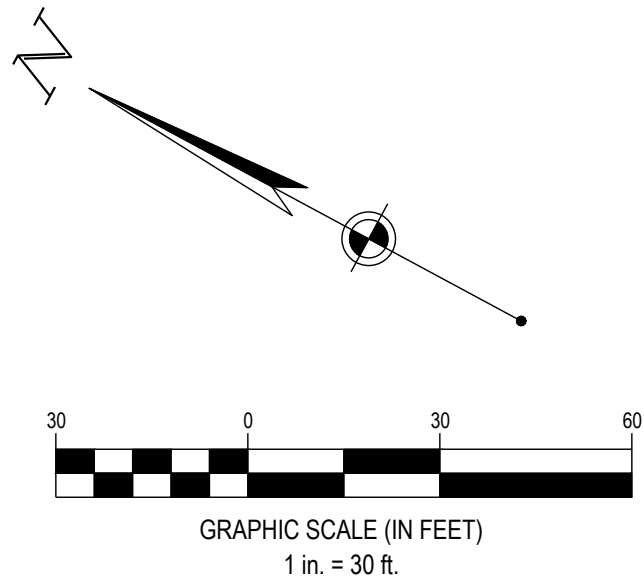
NOTE:

N: & E: VALUES ARE ON ASSUMED COORDINATE PLANE, AND ARE NOT ASSUMED TO BE PRESENT ON STATE PLANE COORDINATE SYSTEM.

SITE QUANTITY:

- A. DOG PARK:
TOTAL AREA: 0.94 AC
IMPERVIOUS AREA: 0.02 AC
- B. OPEN SPACE:
TOTAL AREA: 0.55 AC
IMPERVIOUS AREA: 0.01 AC

LOT & R/W CURVE TABLE						
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE	TANGENT
C1	3.00'	4.98'	4.42'	N16° 01' 46"E	095° 02' 13"	3.28'
C2	27.63'	20.56'	20.09'	N42° 13' 48"E	042° 38' 09"	10.78'
C3	20.97'	25.35'	23.83'	N55° 31' 54"E	069° 14' 22"	14.48'
C4	28.82'	35.03'	32.92'	N55° 20' 01"E	069° 38' 07"	20.05'
C5	19.14'	11.97'	11.78'	N38° 26' 14"E	035° 50' 33"	6.19'



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MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

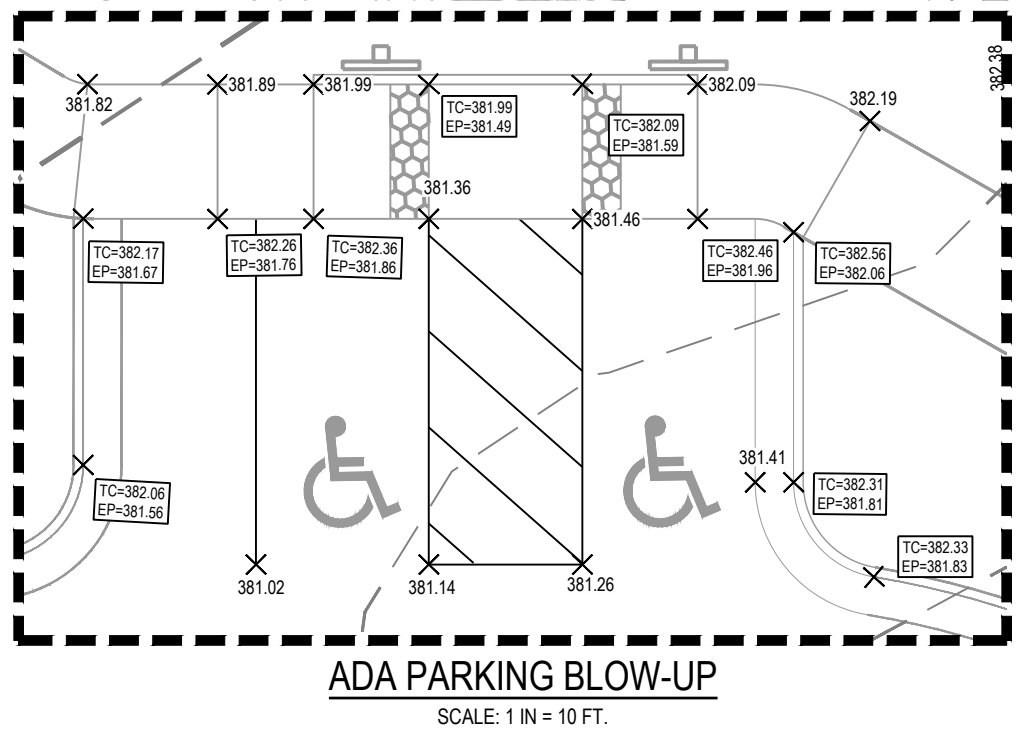
1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

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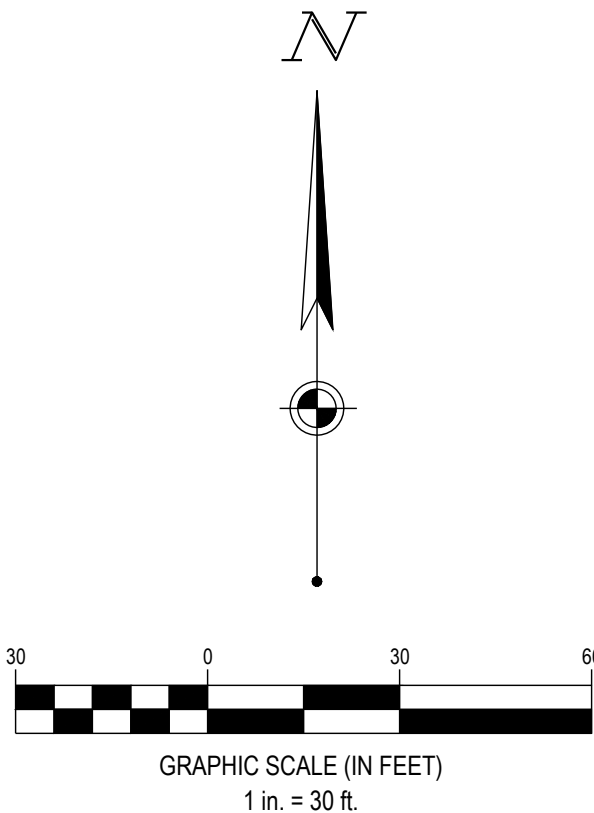
Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
SITE PLAN OPEN SPACE & DOG PARK

C4.2



GRADING LEGEND			
EXISTING			
REFER TO C2.0 FOR EXISTING FEATURES LEGEND			
PROPOSED			
R/W	RIGHT-OF-WAY	DS	DOWNSPOUT
---	PROPERTY LINE	XXXX	FINISHED GRADE ELEVATION
---	SETBACK	RIM=XXX.XX	RIM ELEVATION
---	EASEMENT	BC=XXX.XX	BACK OF CURB ELEVATION
360	MAJOR CONTOUR	TC=XXX.XX EP=XXX.XX	TOP OF CURB ELEVATION EDGE OF PAVEMENT ELEVATION
362	MINOR CONTOUR	TP=XXX.XX FTG=XXX.XX	TOP OF PAVEMENT ELEVATION TOP OF FOOTING ELEVATION
---	GRADE BREAK	M.E.	MATCH EXISTING ELEVATION
STM	PROPOSED STORM PIPE	XXX%	SLOPE ARROW
~	FLOW LINE	➡	FLOOD ROUTE
1	STRUCTURE NUMBER		
■	CATCH BASIN		
●	STORM MANHOLE		
■	CURB INLET		
CO	CLEANOUT		
YD	YARD DRAIN		



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



CESO NC CO. LICENSE NO: C-4740

MERTAGE HOME

KALAS FALLS PHASE 2 AMENITY AND OPEN SPACE

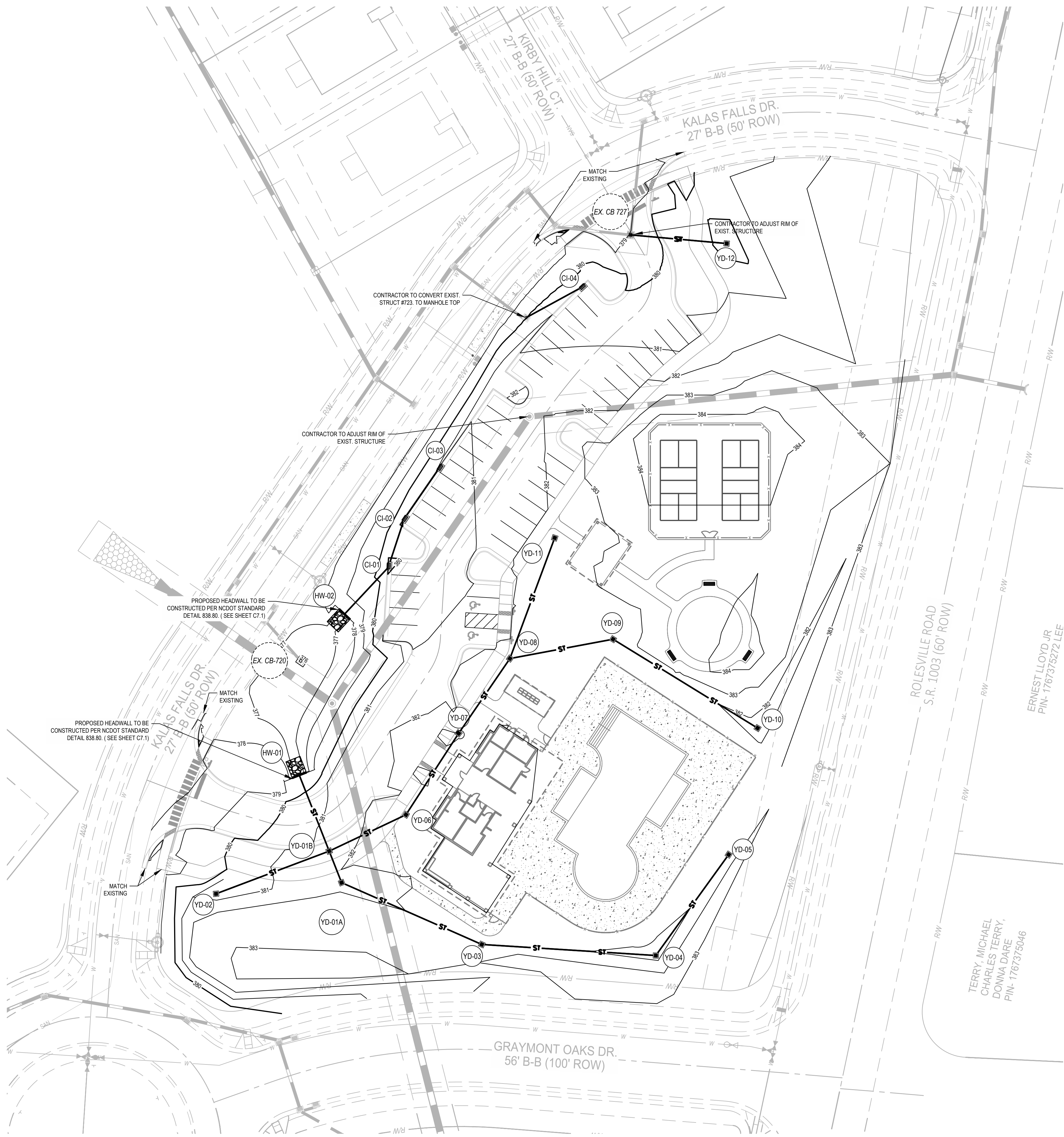
1832 ROLESVILLE ROAD, WAKE COUNTY, NC

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Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
**GRADING PLAN
AMENITY AREA**

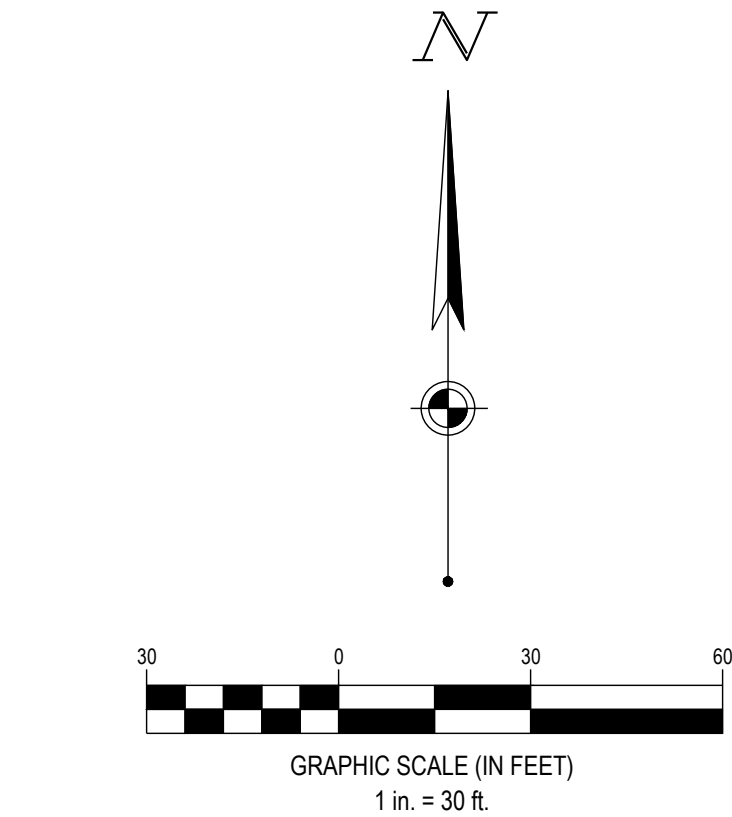
C5.0



GRADING LEGEND			
EXISTING			
REFER TO C2.0 FOR EXISTING FEATURES LEGEND			
PROPOSED			
R/W	RIGHT-OF-WAY	DS	DOWNSPOUT
PROPERTY LINE	PROPERTY LINE	XXX.XX	FINISHED GRADE ELEVATION
SETBACK	SETBACK	RIM=XXX.XX	RIM ELEVATION
EASEMENT	EASEMENT	BC=XXX.XX	BACK OF CURB ELEVATION
MAJOR CONTOUR	MAJOR CONTOUR	TC=XXX.XX EP=XXX.XX	TOP OF CURB ELEVATION EDGE OF PAVEMENT ELEVATION
MINOR CONTOUR	MINOR CONTOUR	TP=XXX.XX FTG=XXX.XX	TOP OF PAVEMENT ELEVATION TOP OF FOOTING ELEVATION
GRADE BREAK	GRADE BREAK	M.E.	MATCH EXISTING ELEVATION
PROPOSED STORM PIPE	PROPOSED STORM PIPE	X.XX%	SLOPE ARROW
FLOW LINE	FLOW LINE		FLOOD ROUTE
STRUCTURE NUMBER	STRUCTURE NUMBER		
CATCH BASIN	CATCH BASIN		
STORM MANHOLE	STORM MANHOLE		
CURB INLET	CURB INLET		
CLEANOUT	CLEANOUT		
YARD DRAIN	YARD DRAIN		

STORM SEWER PIPE TABLE					
PIPE START STRUCTURE	PIPE END STRUCTURE	DIAMETER	LENGTH	SLOPE	MATERIAL
CI-01	CI-02	12"	28'	0.50%	HDPE PIPE
CI-02	CI-03	12"	34'	0.50%	HDPE PIPE
CI-04	EX CB-723	12"	38'	0.48%	HDPE PIPE
EX. CB 727	YD-12	8"	53'	-1.00%	HDPE PIPE
HW-02	CI-01	12"	35'	1.02%	HDPE PIPE
YD-01A	YD-01B	15"	19'	0.44%	HDPE PIPE
YD-01B	HW-01	15"	45'	0.44%	HDPE PIPE
YD-02	YD-01B	8"	66'	1.19%	HDPE PIPE
YD-03	YD-01A	12"	84'	0.56%	HDPE PIPE
YD-04	YD-03	12"	96'	0.50%	HDPE PIPE
YD-05	YD-04	8"	68'	0.50%	HDPE PIPE
YD-06	YD-01B	12"	47'	0.73%	HDPE PIPE
YD-07	YD-06	12"	53'	0.50%	HDPE PIPE
YD-08	YD-07	12"	50'	0.49%	HDPE PIPE
YD-09	YD-08	8"	58'	1.08%	HDPE PIPE
YD-10	YD-09	8"	93'	0.50%	HDPE PIPE
YD-11	YD-08	8"	71'	0.97%	HDPE PIPE

STORM SEWER STRUCTURE SCHEDULE			
NO.	STRUCTURE	GRATE	INVERT
CI-01	CURB INLET	379.93	376.70 (12") N 376.70 (12") SW
CI-02	CURB INLET	380.03	376.84 (12") NE 376.84 (12") S
CI-03	CURB INLET	380.54	377.01 (12") SW
CI-04	CURB INLET	380.11	374.18 (12") SW
EX CB-723	EX. CATCH BASIN	379.95	374.00 (12") NE
EX. CB-720	EX. CATCH BASIN	376.00	373.15 (18") N
EX. CB 727	EX. CATCH BASIN	377.54	374.41 (15") NW
HW-01	HEADWALL W/ RIP RAP		376.42 (15") S
HW-02	HEADWALL W/ RIP RAP		376.34 (12") NE
YD-01A	YARD DRAIN	381.50	376.95 (12") SE 376.70 (15") N
YD-01B	YARD DRAIN	381.75	376.62 (15") S 377.20 (8") W 376.62 (12") NE 376.62 (15") N
YD-02	YARD DRAIN	380.52	377.99 (8") E
YD-03	YARD DRAIN	382.59	377.42 (12") E 377.42 (12") NW
YD-04	YARD DRAIN	381.65	378.23 (8") NE 377.90 (12") W
YD-05	YARD DRAIN	382.40	378.57 (8") SW
YD-06	YARD DRAIN	382.20	376.96 (12") NE 376.96 (12") SW
YD-07	YARD DRAIN	383.00	377.22 (12") NE 377.22 (12") SW
YD-08	YARD DRAIN	382.10	377.80 (8") E 377.80 (8") N 377.47 (12") SW
YD-09	YARD DRAIN	382.40	378.42 (8") SE 378.42 (8") W
YD-10	YARD DRAIN	381.51	378.89 (8") NW
YD-11	YARD DRAIN	382.10	378.49 (8") S
YD-12	YARD DRAIN	379.50	375.66 (8") W



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CESO



CESO NC CO. LICENSE NO: C-4740

MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

Revisions / Submissions

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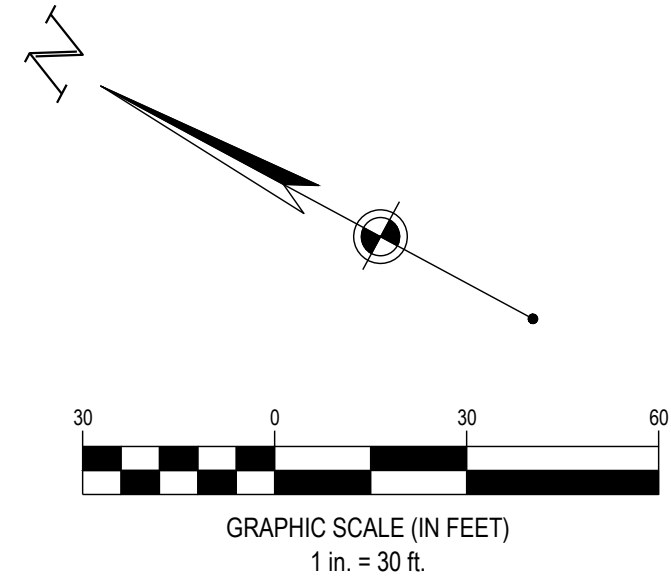
Issue: FOR CONSTRUCTION

Drawing Title:

DRAINAGE PLAN
AMENITY

C5.1

766740_C5.1 OS GRADING & DRAINAGE PLAN.dwg



GRADING LEGEND	
EXISTING	
REFER TO C2.1 FOR EXISTING FEATURES LEGEND	
PROPOSED	
	RIGHT-OF-WAY
	PROPERTY LINE
	SETBACK
	EASEMENT
	MAJOR CONTOUR
	MINOR CONTOUR
	FLOW LINE
	FINISHED GRADE ELEVATION
	RIM ELEVATION
	MATCH EXISTING ELEVATION
	SLOPE ARROW

AMERICA ENGINEERING:
4020 WESTCHASE BOULEVARD, SUITE 450
RALEIGH, NC 27607
PHONE: (919) 469-1101

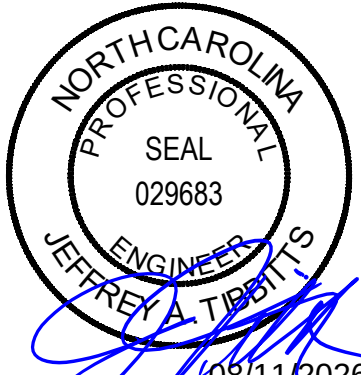
CESO PROVIDES NO GUARANTEE TO THE ACCURACY OF THE SURVEY PROVIDED BY AMERICAN ENGINEERING. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BID AND CONSTRUCTION.



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CESO



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MERTAGE HOME

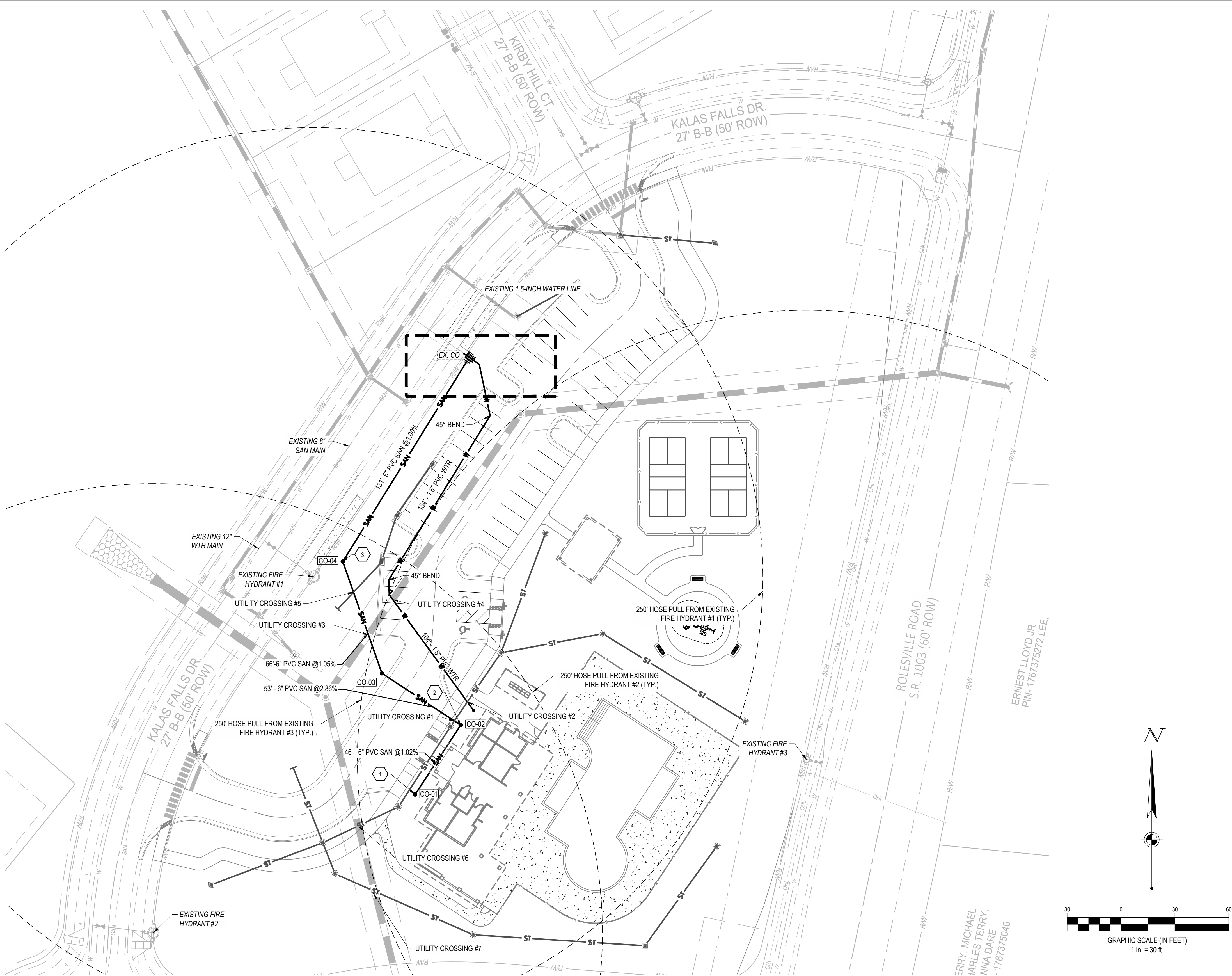
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Drawing Title:
**GRADING & DRAINAGE
PLAN OPEN SPACE &
DOG PARK**

C5.2



ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Infrastructure Inspections Division and schedule a Pre-construction meeting on the Development Portal prior to beginning any construction. Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

Failure to notify City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a downstream plug, have permitted plans on the jobsite, or any other violation of City of Raleigh Standards will result in a fine and possible exclusion from future work in the City of Raleigh.

Public Water Distribution / Extension System

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 Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Private Sewer Collection / Extension System

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 and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Public Sewer Collection / Extension System

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 Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

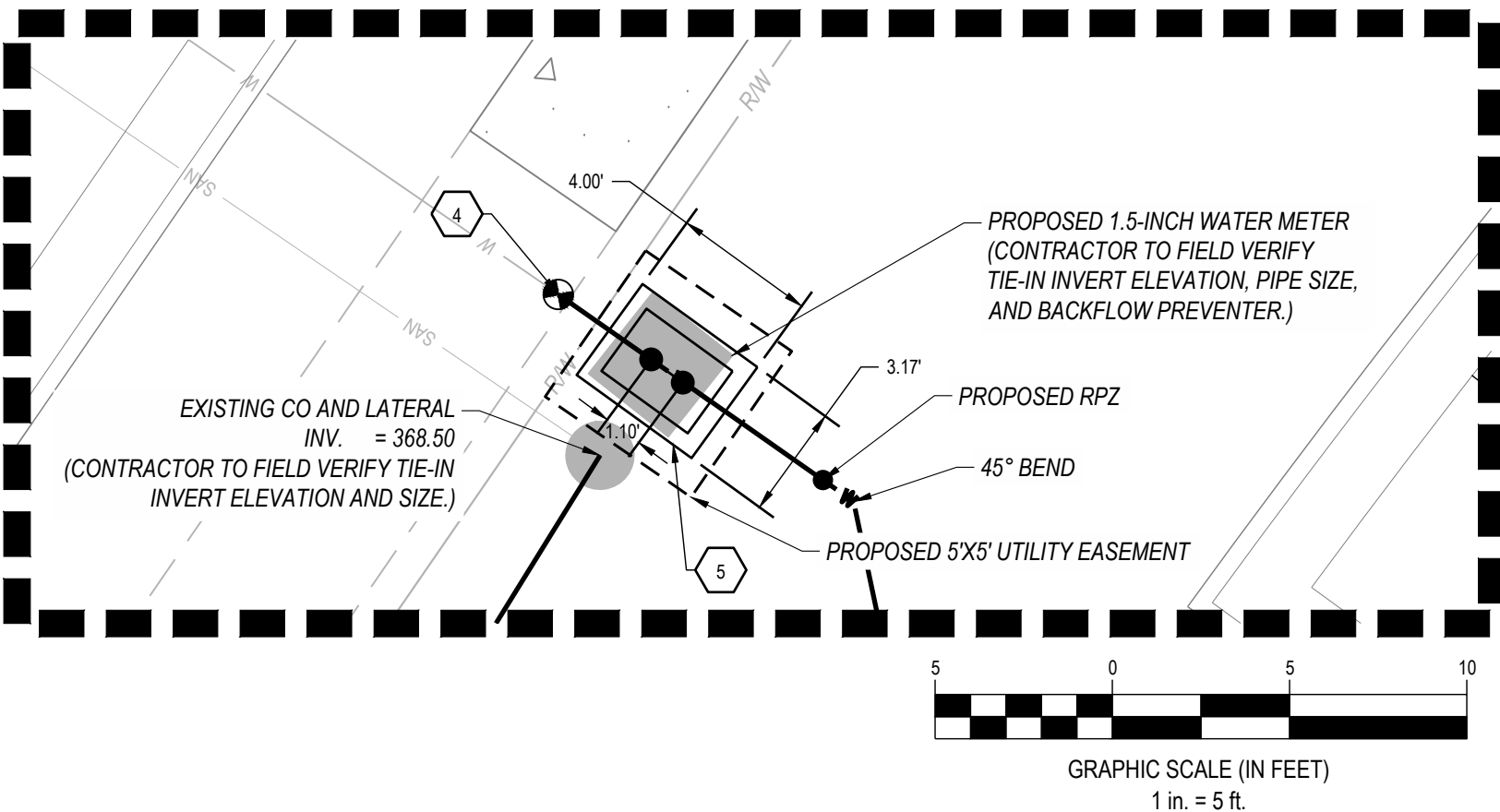
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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

Digitally signed by
austin.bain@raleighnc.gov
Date: 2026.08.12
16:20:33-04'00'

City of Raleigh Development Approval

Raleigh Water Review Officer



UTILITY LEGEND

EXISTING

REFER TO C2.0 FOR EXISTING FEATURES LEGEND

PROPOSED

	CONCRETE CURB
	PAVEMENT/WALK
	DOMESTIC WATER SERVICE LINE
	FORCE MAIN
	SANITARY SEWER PIPE
	SANITARY SEWER MANHOLE
	CLEANOUT
	ELECTRICAL TRANSFORMER PAD
	FIRE HYDRANT
	WATER VALVE

CODED NOTES:

CODE	DESCRIPTION	DETAIL # - SHEET #
1	POC TO AMENITY BUILDINGS	REFER TO MEP PLANS
2	POC FOR POOL EQUIPMENT ROOM	REFER TO MEP PLANS
3	PROPOSED SAN CLEANOUT (TYP.)	
4	PROPOSED CURB STOP (TYP.)	REFER TO SHEET C7.1
5	PROPOSED 48"X38" METER BOX	REFER TO SHEET C7.1

NOTES:

- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BID AND CONSTRUCTION.
- WHERE DISCHARGE ON THE STORM SEWER IS NOT POSSIBLE AND A SWIMMING POOL IS CONNECTED TO THE SANITARY SEWER SYSTEM FOR THE PURPOSES OF DRAINING OR FLUSHING THE POOL FOUNDATION OR BACKWASHING THE FILTERS, THE DRAINAGE SYSTEM SHALL BE EQUIPPED WITH A PUMP OR FLOW RESTRICTOR SO THAT THE DISCHARGE RATE TO THE SANITARY SEWER DOES NOT EXCEED 50 GPM.
- POTABLE WATER BACKFLOW: ZURN WILKINS MODEL 350A (OR, RALEIGH APPROVED EQUAL)

SANITARY SEWER PIPE TABLE

PIPE START STRUCTURE	PIPE END STRUCTURE	DIAMETER	LENGTH	SLOPE	MATERIAL
CO-01	CO-02	6"	46'	1.02%	PVC
CO-02	CO-03	6"	53'	2.86%	PVC
CO-03	CO-04	6"	66'	1.05%	PVC
CO-04	EX. CO	6"	131'	1.00%	PVC

SANITARY SEWER STRUCTURE SCHEDULE

NO.	STRUCTURE	RIM	INVERT
CO-01	6" CLEANOUT	382.61	377.47 (6") NE
CO-02	6" CLEANOUT	382.86	377.00 (6") SW 375.00 (6") NW
CO-03	6" CLEANOUT	381.02	373.50 (6") SE 371.50 (6") N
CO-04	6" CLEANOUT	378.67	370.81 (6") S 370.81 (6") NE
EX. CO	EXISTING CLEANOUT	378.79	369.50 (6") SW

UTILITY CROSSING SCHEDULE

NO.	UTILITY	ELEVATIONS	DIFF.	FG ELEVATION
1	STORM SEWER (BOTTOM OF PIPE)	376.9	1.4	382.90
	SANITARY SEWER (TOP OF PIPE)	375.5		
2	STORM SEWER (BOTTOM OF PIPE)	377.1	1.5	382.52
	WATER MAIN (TOP OF PIPE)	375.6		
3	STORM SEWER (BOTTOM OF PIPE)	374.6	2.7	380.43
	SANITARY SEWER (TOP OF PIPE)	371.9		
4	STORM SEWER (BOTTOM OF PIPE)	374.9	1.5	380.40
	WATER MAIN (TOP OF PIPE)	373.4		
5	STORM SEWER (BOTTOM OF PIPE)	376.3	4.5	379.22
	SANITARY SEWER (TOP OF PIPE)	371.7		
6	STORM SEWER (PROPOSED) (BOTTOM OF PIPE)	376.5	2.7	382.05
	STORM SEWER (EXISTING) (TOP OF PIPE)	373.8		
7	STORM SEWER (PROPOSED) (BOTTOM OF PIPE)	376.9	2.90	381.84
	STORM SEWER (EXISTING) (TOP OF PIPE)	374.0		

SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: NORTH CAROLINA UTILITIES PROTECTION SERVICE AT 811 OR 800-632-4949 AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



CESO NC CO. LICENSE NO: C-4740

MERTAGE HOME

KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE

1832 ROLESVILLE ROAD,
WAKE COUNTY, NC

Revisions / Submissions		
ID	Description	Date
01	ROLESVILLE COMMENTS	12/19/2025
02	ROLESVILLE COMMENTS	02/18/2026
03	AHJ COMMENTS	03/31/2026
04	WAKE COUNTY COMMENTS	07/20/2026

Project Number: 766740-01 / -02
Scale: AS SHOWN
Drawn By: RM
Checked By: CG
Date: 10/31/2025
Issue: FOR CONSTRUCTION

Drawing Title:
UTILITY PLAN

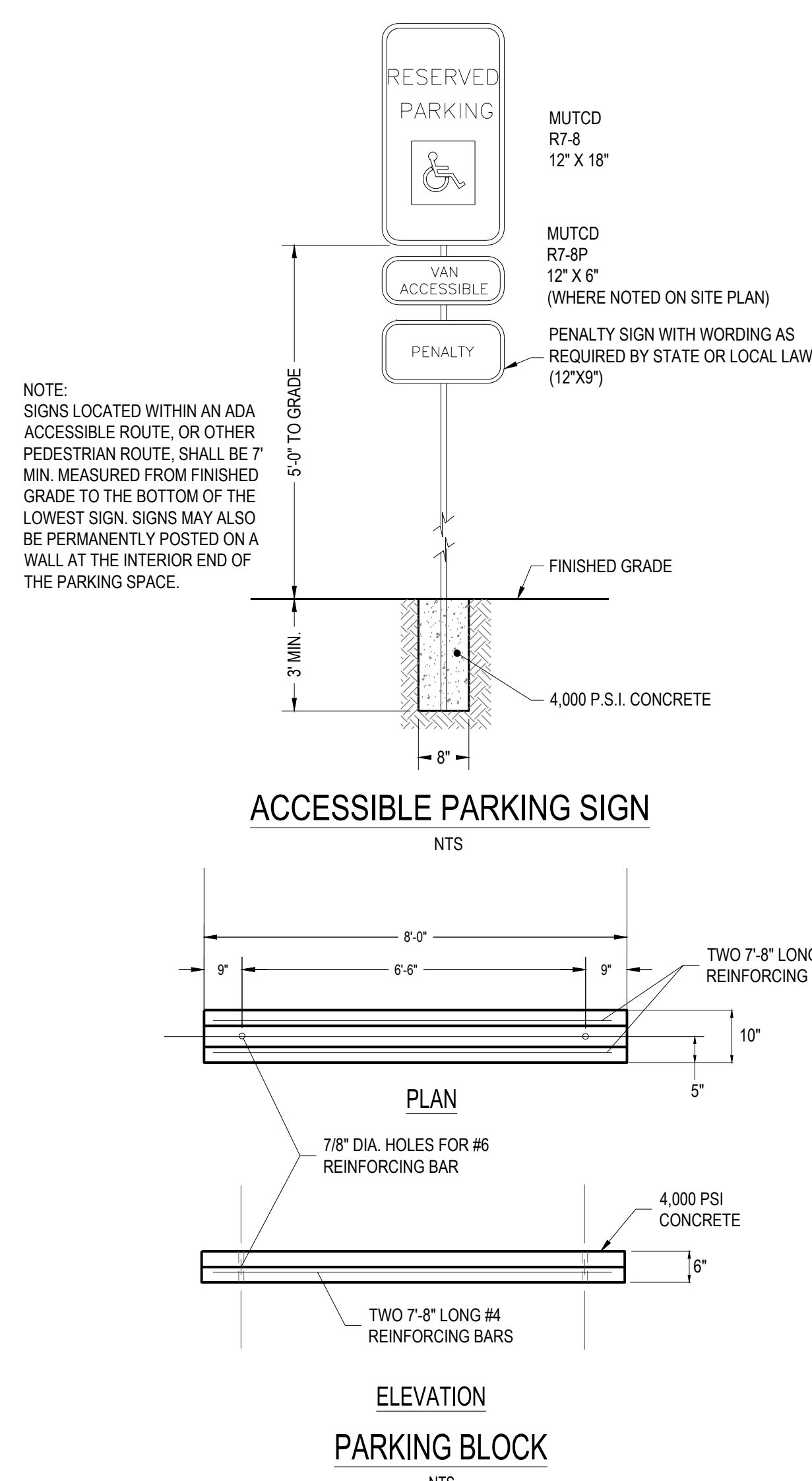
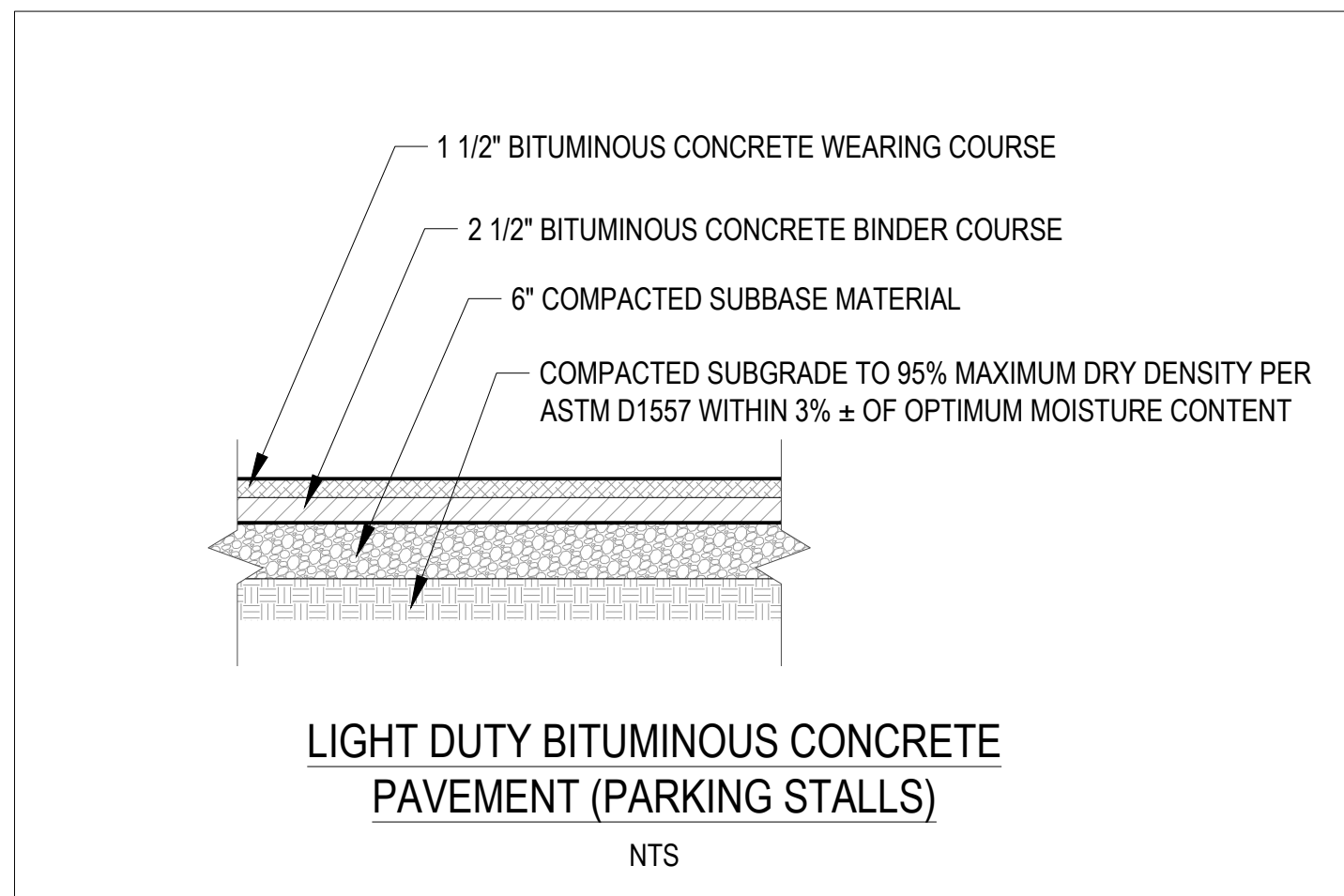
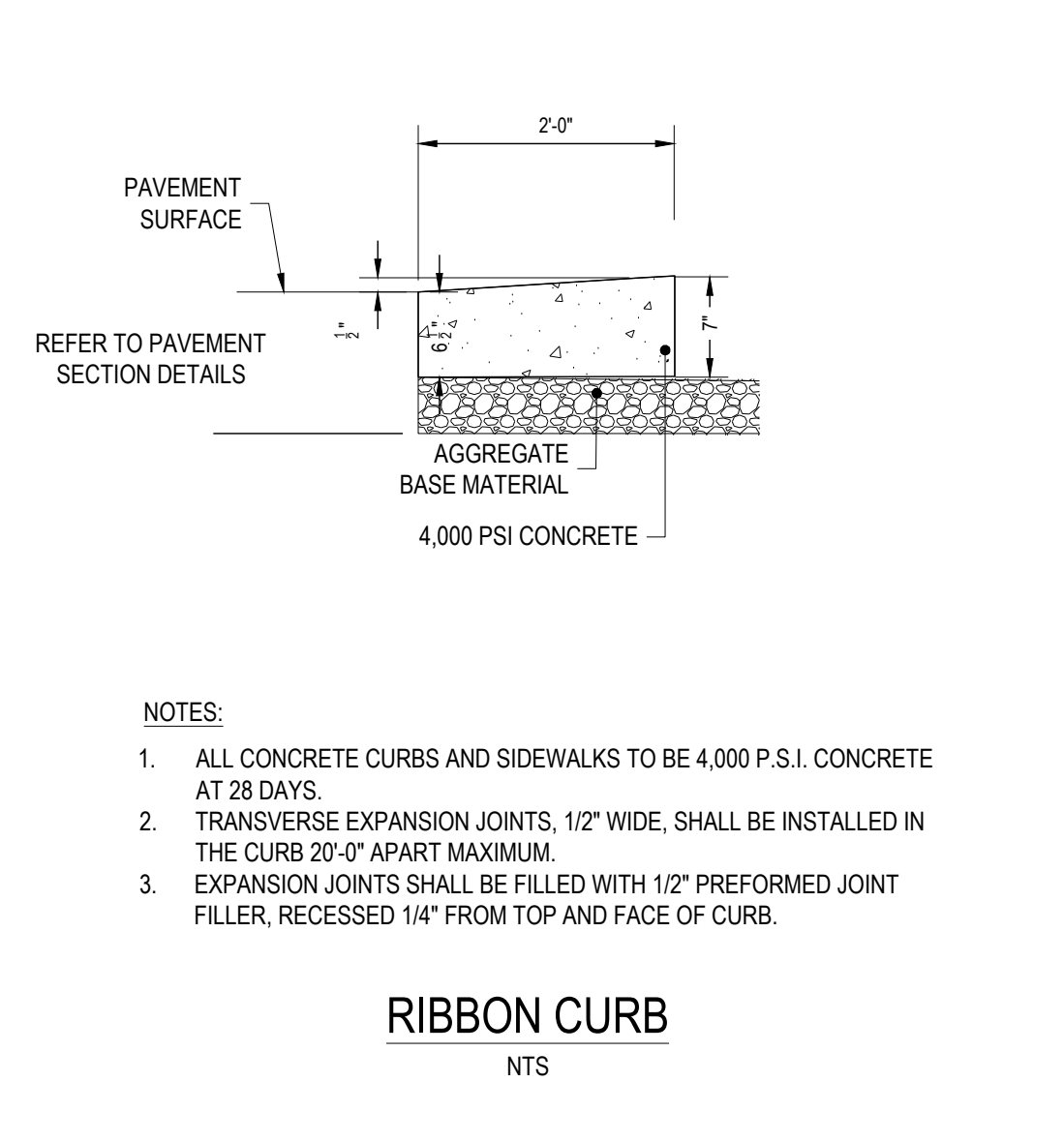
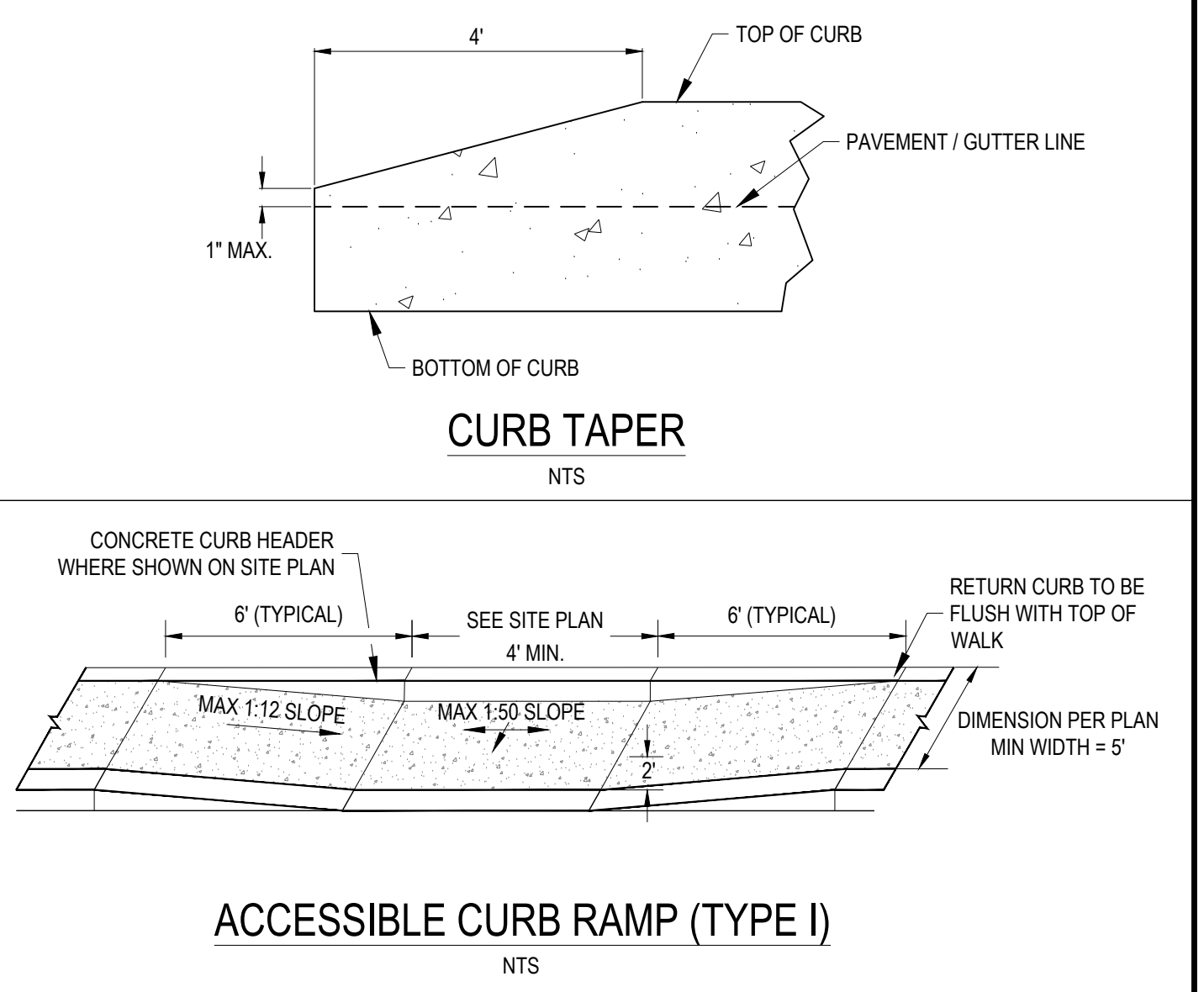
C6.0



KALAS FALLS PHASE 2 AMENITY AND OPEN SPACE

Project Number:	766740-01 / -02
Scale:	AS SHOWN
Drawn By:	RM
Checked By:	CG
Date:	10/31/2025
Issue:	FOR CONSTRUCTION

C7.0





**KALAS FALLS PHASE 2
AMENITY AND OPEN SPACE**

MERITAGE HOME

Revisions / Submissions		
ID	Description	Date
01	ROLESVILLE COMMENTS	12/19/2025
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DETAILS PLAN

C7.2

