



Order Plans

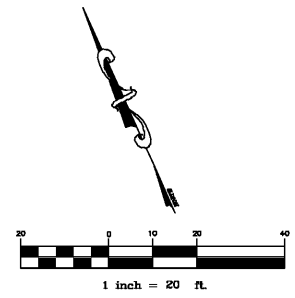
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- ### SITE GRADING NOTES
- BOUNDARY AND TOPOGRAPHIC INFORMATION WAS TAKEN FROM A SURVEY DATED 10/04/19 BY: GEO PROFESSIONALS, PLLC TEL: 336-686-0965
  - EXISTING SOIL INFORMATION IS AVAILABLE FROM: BUILDING & EARTH SOIL REPORT DATED 10/02/19. CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS MADE IN THIS REPORT UNLESS OTHERWISE NOTED.
  - NEW FINISHED CONTOURS SHOWN ARE TOP OF FUTURE PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN PLANTING AREAS.
  - ROUGH GRADE ELEVATIONS SHALL BE AS FOLLOWS:
    - 4" BELOW FINISHED CONTOURS IN GRASS AREAS.
    - 8" BELOW FLOOR ELEVATIONS WITHIN THE BUILDING AND SIDEWALK AREAS, UNLESS OTHERWISE NOTED.
    - 9" BELOW FINISHED CONTOURS IN STANDARD DUTY CONCRETE AREAS.
    - 12" BELOW FINISHED CONTOURS IN HEAVY DUTY CONCRETE AREAS.
  - RCP STORM DRAIN PIPE IS CLASS II REINFORCED CONCRETE CONFORMING TO ASTM C-76. PVC STORM DRAIN PIPE IS SDR35. HDPE STORM DRAIN PIPE IS 405# 12" WT.
  - DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY AND ARE TO BE USED TO LAY-OUT FOOTINGS. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION INFORMATION.
  - GRADING CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES TO REMAIN TO EXISTING FINISHED GRADES.
  - GRADING CONTRACTOR SHALL COOPERATE AND WORK WITH ALL OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO INSURE PROPER AND TIMELY COMPLETION OF THIS PROJECT.
  - THE GRADING CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM BLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL LOCAL EROSION, CONSERVATION, AND SETBACK ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND NOT BEFORE THE ESTABLISHMENT OF A STAND OF GRASS SUFFICIENT TO PREVENT EROSION.
  - FOR ANY WORK ON THE STATE OR CITY RIGHT-OF-WAY, THE GRADING CONTRACTOR SHALL:
    - A. NOT ENTER THE RIGHT-OF-WAY WITHOUT THE NECESSARY PERMITS OR EQUIPMENT IN THE RIGHT-OF-WAY IN CASE OF MULTIPLE HIGHWAYS. THE PAVEMENT SHALL BE KEPT FREE FROM ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT. ON COMPLETION OF THE WORK, ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY.
    - B. PROVIDE NECESSARY AND ADEQUATE SAFETY PRECAUTIONS SUCH AS SIGNS, FLAGS, LIGHT BARRICADES, AND FLAGMEN AS REQUIRED BY THE LOCAL AUTHORITIES AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE GRADING CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HOLD HARMLESS THE CITY, STATE, ARCHITECT, ENGINEER, AND OWNER FROM ANY CLAIMS FOR DAMAGE DONE TO EXISTING PRIVATE PROPERTY, PUBLIC UTILITIES, OR TO THE TRAVELING PUBLIC.
    - C. COMPLETE WORK TO THE SATISFACTION OF THE CITY PUBLIC WORKS DEPARTMENT AND OBTAIN A LETTER FROM THE DEPARTMENT STATING THAT THE WORK IS ACCEPTABLE.
  - A QUALIFIED SOILS LABORATORY SHALL BE ON-SITE DURING EXCAVATING TO DETERMINE THE SUITABILITY OF THE EXISTING SUB-GRADE AND EXISTING ON-SITE MATERIAL PRIOR TO BEGINNING ANY FILLING OPERATION.
  - GRADING CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING, OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO OWNER.
  - SITE GRADING CONTRACTOR SHALL TERMINATE ALL STORM DRAIN PIPES FIVE FEET MAXIMUM FROM BUILDING UNLESS OTHERWISE NOTED.
  - STORM SEWER LEAD-INS TO BUILDING SHALL NOT BE INSTALLED UNTIL BUILDING PLANS ARE COMPLETED AND LOCATIONS ESTABLISHED ON THE ARCHITECTURAL PLANS. LEAD-INS MAY CHANGE 15' HORIZONTALLY AND 3' VERTICALLY PRIOR TO INSTALLATION AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL REQUEST AND RECEIVE WRITTEN APPROVAL FROM PRIME CONTRACTOR PRIOR TO INSTALLATION OF LEAD-INS. CONTRACTOR SHALL COORDINATE LOCATIONS, SIZE, AND INVERT ELEVATIONS OF STORM SEWERS WITH APPROVED BUILDING PLUMBING PLANS.
  - ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
  - BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION. OWNER MUST APPROVE STAKED ITEMS PRIOR TO CONSTRUCTION.
  - TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO BEGINNING OF GRADING. CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES AND SHALL REMOVE SILT FROM BERM DITCHES, SILT DAMS, AND SILT FENCES AS NEEDED. INSPECT DEVICES WITH GENERAL CONTRACTOR AT LEAST ONCE A WEEK.
  - CONTRACTOR TO COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED IN THESE PLANS. (ELECTRIC, TELEPHONE, GAS, CABLE, ETC.) AND ALLOW FOR THEIR OPERATIONS & CONSTRUCTION TO BE PERFORMED.
  - CUT AND FILL SLOPES ARE NOT TO EXCEED 3:1 UNLESS OTHERWISE NOTED.
  - IN NO CASE SHALL ANY PAVED AREAS BE LESS THAN A SLOPE OF 1.5%. ALL ACCESSIBLE SIDEWALKS AND ASLE SLOPES NOT TO EXCEED 2% CROSS-SLOPE.
  - CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND ANY DAMAGE THAT OCCURS AS RESULT OF HIS WORK.
  - ALL LINEAR FOOTAGE FOR ALL UTILITY PIPES ARE APPROXIMATE, ACTUAL INSTALLED QUANTITIES MAY VARY.
  - GRADING CONTRACTOR SHALL RESTORE TO GRADE AND COMPACTION ALL AREAS DISTURBED BY BUILDING CONSTRUCTION PRIOR TO BASE AND PAVING OPERATIONS COMMENCING.
  - GRADING CONTRACTOR SHALL MAINTAIN ALL WEATHER CONSTRUCTION ACCESS ROADS AS REQUIRED BY GENERAL CONTRACTOR.

**BLANKET EASEMENT STATEMENT**

THE CITY OF DURHAM AND THEIR ASSIGNS HAVE RIGHT OF ACCESS TO THE PERMANENT STORMWATER CONTROL MEASURES, OUTLET CONTROL STRUCTURE & CONTECH STORMFILTER, FOR INSPECTIONS AND MAINTENANCE ENFORCEMENT. A BLANKET ACCESS EASEMENT TO, OVER AND AROUND THE STORMWATER CONTROL MEASURE IS HEREBY GRANTED FOR INSPECTIONS AS WELL AS ENFORCEMENT OF OPERATION & MAINTENANCE. ANY OBSTRUCTION PLACED IN THE BLANKET EASEMENT THAT IMPEDS NECESSARY MAINTENANCE ENFORCEMENT WILL BE REMOVED AND ALL THE ASSOCIATED COSTS WILL BE BORNE SOLELY BY THE OWNER.

UTILITIES & GRADING LEGEND		
	EXISTING	PROPOSED
RIGHT-OF-WAY/PROPERTY LINE	---	---
WATER LINE	— W —	— 6 W —
SANITARY SEWER	— SS —	— SS —
SANITARY SEWER MANHOLE	⊙	⊙
UNDERDRAIN	— UD —	— UD —
UNDERGROUND POWER LINE	— UG —	— UG —
UNDERGROUND TELEPHONE/DATA LINE	— UT —	— UGT —
OVERHEAD ELECTRIC LINE	— OHE —	— OHE —
NATURAL GAS LINE	— GAS —	— GAS —
CLEANOUT	— C —	— C —
FIRE HYDRANT	⊕	⊕
WATER VALVE	⊕	⊕
INDEX CONTOURS	750	750
1' INTERVALS	751	751
SPOT ELEVATION	x751.50	750.50
STORM SEWER	— S —	— S —
CATCH BASIN	□	□
LIGHT POLE (SEE SITE ELECTRICAL PLANS)	⊕	⊕
LIMITS OF DISTURBANCE (41,850 SF)	⊞	⊞



**BERRY ENGINEERS LLC**

CIVIL ENGINEER

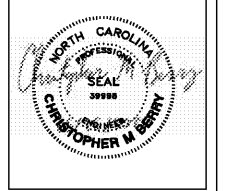
3665 BELLEFAY BLVD, SUITE 109  
CLEVELAND, TN 37312  
TEL: (615) 790-5880  
DBA BERRY ENGINEERS, PLLC; FIRM LICENSE: P-1188

**BELTERRA PARTNERS, LLC.**

728 SHADES CREEK PKWY  
SUITE 130  
BIRMINGHAM, AL 35209

**O'REILLY AUTO PARTS**

2801 S MIAMI BLVD  
DURHAM, NC



REVISIONS	
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SHEET NAME:  
**SITE GRADING & DRAINAGE PLAN**

DATE: 06/15/2019

DRAWN BY: CSH

CHECKED BY: CMB

PROJECT NO: 19065

SHEET NUMBER:  
**C-03**