



LEGEND	
	CONSTRUCTION LIMITS
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED SPOT
	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED 4" CPP DRAIN
	PROPOSED 2" PVC IRRIGATION SLEEVES
	PROPOSED SANITARY
	FILTER BAG INLET PROTECTION

- GRADING NOTES:**
- SEE GENERAL NOTES SHEET C0-2 FOR GRADING NOTES.
 - CONTRACTOR SHALL REVIEW, UNDERSTAND AND IMPLEMENT ALL REQUIRED EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY DISTURBANCE.
 - SEE THE EROSION CONTROL PLANS AND DETAILS FOR THE LOCATION AND SIZING OF ALL RIP-RAP APRONS AND SLOPE AND CHANNEL LININGS.
 - ON ALL SLOPES STEEPER THAN 3:1, CONTRACTOR SHALL INSTALL NORTH AMERICAN GREEN PRODUCT SC150 EROSION CONTROL MATTING. REFER TO NAG FOR INSTALLATION GUIDELINES.
 - ALL SPOT ELEVATIONS ALONG CURB AND GUTTER LINE REPRESENT FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
 - C.O. - PVC CLEAN-OUT WITH TRAFFIC RATED BRASS CAP FLUSH WITH PAVEMENT UNLESS OTHERWISE NOTED.
 - CPP - CORRUGATED PLASTIC PIPE WITH CORRUGATED EXTERIOR/SMOOTH INTERIOR (TYPE S). ASHSTO M294. PVC SCH 40 MAY BE USED AS AN ALTERNATE.
 - RCP - REINFORCED CONCRETE PIPE - CLASS III
- SANITARY SEWER NOTES:**
- CONTRACTOR TO COORDINATE WITH CMU AND PAY FOR TIE IN TO CMU SANITARY SEWER IF NEW SERVICE IS PROPOSED FOR THIS PROJECT.
 - CONTRACTOR TO LOCATE LATERAL CONNECTIONS TO BUILDING PER PLUMBING PLANS.
 - PLACE CLEAN-OUTS ON SANITARY SEWER LATERALS AS REQUIRED BY PLUMBING CODE.
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN ENCROACHMENT AGREEMENT PERMIT AS REQUIRED TO CONSTRUCT UTILITY CONNECTIONS IF WORK WITHIN THE D.O.T. R.O.W. IS PROPOSED.
 - TRENCHES FOR SEWER LATERALS MUST REMAIN OPEN FOR PLUMBING INSPECTION.
- UTILITY NOTES:**
- SEE GENERAL NOTES SHEET FOR UTILITY PLAN NOTES.
 - ALL CHANGES IN DIRECTION OF THE CONDUIT SHALL UTILIZE STANDARD SWEEPS WITH A MINIMUM BENDING RADIUS LISTED IN THE NEC. NO MORE THAN (2) 90-DEGREE BENDS WILL BE ALLOWED BETWEEN PULLING POINTS, OR A TOTAL OF 180 DEGREES COMBINED IN SEVERAL BENDS. PULL BOXES SHALL BE LOCATED EVERY 400 FEET UNLESS THE COMBINED TOTAL OF BENDS REQUIRE ADDITIONAL MANHOLES.
- BACKFLOW NOTES:**
- THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS CMU-REQUIRED BACKFLOW PREVENTER.
 - EACH CLT WATER REQUIRED BACKFLOW PREVENTION ASSEMBLY IS REQUIRED TO BE TESTED BY A CLT WATER APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.
 - REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY AS APPROVED BY CLT WATER AND INSTALLED BY CONTRACTOR DURING CONSTRUCTION. ASSEMBLY TO BE INSTALLED ABOVE-GROUND WITHIN INSULATED ENCLOSURE PER CLT WATER REQUIREMENTS. ENCLOSURE TO INCLUDE DRAIN PORT(S) FOR DISCHARGE WATER PER CLT WATER REQUIREMENTS. ENCLOSURE TO BE LOCATED OUT OF SETBACK. SEE DETAILS THIS SHEET. ALTERNATIVES TO THESE DETAILS PER OWNER DIRECTIVE ARE ACCEPTABLE AS LONG AS THEY MEET CLT WATER REQUIREMENTS.
 - PERMANENT INSULATION SHALL NOT BE INSTALLED ON BACKFLOW ASSEMBLY. BACKFLOW ASSEMBLY INSPECTOR REGARDING HEATING OPTIONS.
 - BACKFLOW ASSEMBLY SERVING A FIRE LINE SHALL BE HEATED TO MAINTAIN A MINIMUM OF 40° F.
- NOTE TO BACKFLOW REVIEWER:**
- IRRIGATION SERVICE IS NOT PROPOSED AT THIS TIME AND IS SUBSEQUENTLY NOT SHOWN ON THESE DOCUMENTS. IF FUTURE SERVICE IS DESIRED, IT WILL BE A DEDICATED SERVICE AND NOT TIED TO THE DOMESTIC OR FIRE SERVICES.

BANKS ENGINEERING
 1919 SOUTH BOULEVARD
 SUITE 200
 CHARLOTTE, NC 28203
 T: 704.780.4972
 NC License #P-1370
 © 2016

Harris Teeter
 CLIENT: HARRIS TEETER
 112 S. SHARON AMITY
 CHARLOTTE, NC 28211

PROFESSIONAL SEAL
 HARRIS TEETER
 12.15.16

HARRIS TEETER EXPANSION
 PROJECT: HARRIS TEETER EXPANSION
 112 S. SHARON AMITY
 CHARLOTTE, NC 28211

GRADING AND UTILITY PLAN
 SHEET: GRADING AND UTILITY PLAN

REV	DATE	DESCRIPTION
12.15.16		Revised storm line location and traffic control
H	11.08.16	Revised per backflow reviewer comments
G	10.19.16	Revised per backflow reviewer comments
F	10.19.16	Revised per backflow reviewer comments
E	08.26.16	Revised building footprint
D	03.04.16	Added backflow preventers per Bldg. Stds. review.
C	02.26.16	Per Building Standards review comments
B	01.28.16	2nd Submittal to City of Charlotte

DESIGNED: JDB
 DRAWN:
 CHECKED:
 PROJECT: 01014001
 DATE: 01.13.16

C4-0

811
 Know what's below.
 Call before you dig.
 SCALE: 1" = 20'