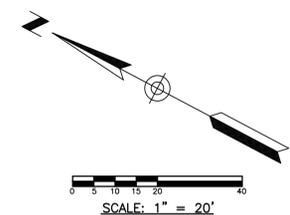


**GRADING & UTILITY NOTES**

- LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. ALL PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL UTILITIES AND SERVICES INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE SHALL BE VERTICALLY AND HORIZONTALLY LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
- DEFINE AND LOCATE VERTICALLY AND HORIZONTALLY ALL ACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
- THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE UTILITY SERVICE SIZES ARE TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES TO AVOID CONFLICTS AND ENSURE PROPER DEPTHS ARE ACHIEVED. THE JURISDICTION UTILITY REQUIREMENTS SHALL ALSO BE MET, AS WELL AS COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY SERVICES. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME.
- WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
- ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS ARE SUBGRADE WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SUBBASE BE DEFINED UNSUITABLE BY OWNER OR OWNER'S REPRESENTATIVE. SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT.
- ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION SHALL BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND SHALL BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
- PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
- THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, IF REQUIRED, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MINIMUM SLOPE ALONG ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF 0.75% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
- IN CASE OF DISCREPANCIES BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE. IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICTS.
- CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK.
- EXISTING CONTOURS SHOWN ARE REPRESENTATIVE OF FIELD WORK DATED OCTOBER 26, 2016.
- SANITARY AND STORM SEWER WORK WILL BE DONE IN ACCORDANCE WITH THE "UNIFORM STANDARDS FOR SEWERAGE IMPROVEMENTS," DEC. 1998 EDITION.

**FLOOD ZONE DESIGNATION:** THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FRIP FIRM COMMUNITY PANEL NO. 18063002780, EFFECTIVE DATE SEPTEMBER 26, 2009.



**EX. STORM SEWER STRUCTURE SCHEDULE**

- EX. CATCH BASIN  
TOP 783.92  
INV. 780.42, 12" NE  
INV. 780.12, 18" SE
- EX. CURB INLET  
TOP 784.01  
INV. 779.71, 18" NW  
INV. 779.71, 21" SW
- EX. STM. M.H.  
TOP 781.96  
INV. 776.45, 15" SE  
INV. 776.25, 24" W  
INV. 777.15, 21" NE  
INV. 777.15, 12" N
- EX. CURB INLET  
TOP 780.19  
INV. 776.98, 12" N  
INV. 776.98, 12" N
- EX. STM. M.H.  
TOP 780.52  
INV. 773.45, 48" NW  
INV. 772.15, 48" SE  
INV. 776.45, 21" NW  
INV. 775.00, 24" E
- EX. CURB INLET  
TOP 780.36  
INV. 776.56, 24" SW  
INV. 776.56, 21" SE
- EX. CURB INLET  
TOP 779.86  
INV. 776.66, 15" NW
- EX. CURB INLET  
TOP 786.59  
INV. 781.99, 12" NW
- EX. CURB INLET  
TOP 786.99  
INV. 782.49, 12" NW
- EX. STM. M.H.  
TOP 785.92  
INV. 776.92, 48" N  
INV. 775.72, 48" SE  
INV. 781.92, 15" NE
- EX. CURB INLET  
TOP 783.90  
INV. 780.60, 12" SE
- EX. CATCH BASIN  
TOP 784.20  
INV. 780.20, 12" NW  
INV. 780.20, 12" SW
- EX. STM. M.H.  
TOP 782.80  
INV. 778.80, 12" N  
INV. 778.40, 12" S  
INV. 778.50, 12" E  
INV. 779.80, 10" NE
- EX. CURB INLET  
TOP 783.61 (EX.) 784.44 (PROP.)  
INV. 779.71, 12" S
- EX. CURB INLET  
TOP 782.75 (EX.) 783.17 (PROP.)  
TOP 784.82  
INV. 778.42, 21" NE (EX.)  
INV. 778.42, 21" SW (EX.)

**LEGEND**

- ▲ PROP. FDC
- △ EX. FIRE HYDRANT
- ✕ PROP. VALVE
- ✕ EX. VALVE
- PROP. MANHOLE
- EX. MANHOLE
- PROP. INLET
- EX. INLET
- ▭ EX. GRADE
- PROP. TOP OF CURB ELEV.
- PROP. BOTTOM OF CURB ELEV.
- PROP. FINISHED ELEVATION
- PROP. TOP OF WALL ELEV.
- PROP. BOTTOM OF WALL ELEV.
- ▬ SPILLING SECTION
- ▬ CATCHING SECTION
- ▬ POSITIVE DRAINAGE
- ▬ EX. STORM SEWER
- ▬ PROP. STORM SEWER
- ▬ EX. CURB
- ▬ PROP. CURB & GUTTER
- ▬ PROP. CONTOURS
- ▬ EX. CONTOURS
- (M.E.) MEET EXISTING ELEVATION

**PROP. STORM SEWER STRUCTURE SCHEDULE**

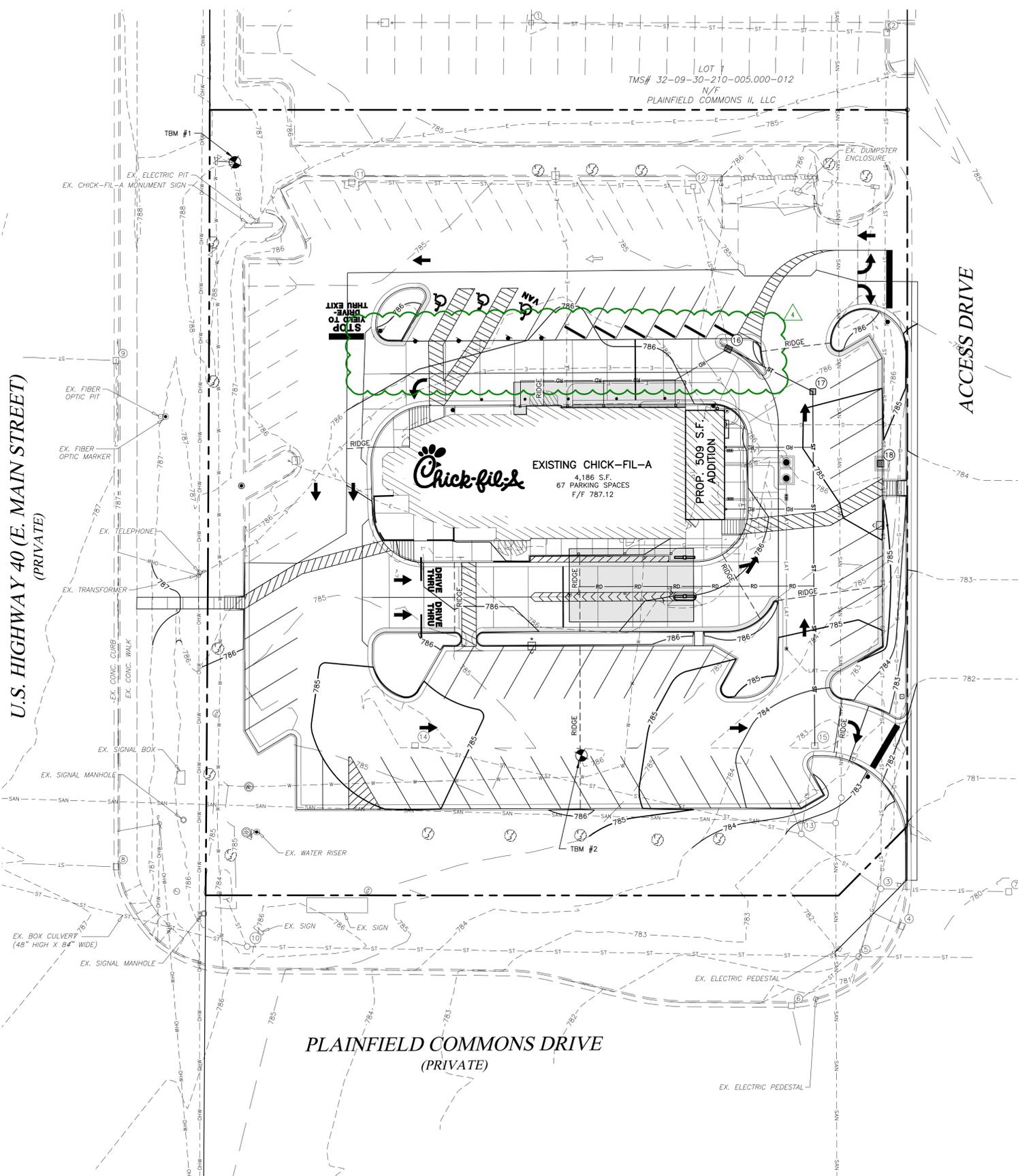
- PROP. CURB INLET  
TOP 785.87  
INV. 779.80, 12" S  
INV. 779.80, 12" NE (EX.)
- PROP. CATCH BASIN TYPE A  
TOP 785.13  
INV. 779.60, 12" N  
INV. 779.60, 12" SW
- PROP. CURB INLET  
(SEE DETAIL SHEET C-340)  
TOP 784.82  
INV. 778.42, 21" NE (EX.)  
INV. 778.42, 21" SW (EX.)

**PROP. STORM SEWER PIPE SCHEDULE**

FROM	TO	SIZE	LENGTH	SLOPE	TYPE
16	17	12"	32.78'	0.61%	Corrugated HDPE Pipe
17	15 (EX.)	12"	122.09'	0.61%	Corrugated HDPE Pipe

**NOTE:** MAINLINE PIPE SHALL NOT CONNECT TO CATCH BASINS. CATCH BASIN CONNECTIONS OCCUR AT A MANHOLE. MAINLINE PIPE IS ANY PIPE DOWNSTREAM OF A SINGLE SET OF TWO CATCH BASINS OR ANY PIPE LARGER THAN OR EQUAL TO 15 INCH DIAMETER. PIPE LESS THAN OR EQUAL TO 15 INCH DIAMETER WHICH DRAINS ONE SWALE INLET MAY BE CONNECTED TO CATCH BASINS WHEN THE INVERT DEPTH OF SUCH CATCH BASIN IS NOT GREATER THAN SHOWN ON THE CATCH BASIN DETAIL. A 10'-15' OFFSET IS REQUIRED FOR INLET PIPES PARALLEL TO MAINLINE PIPE. IS IS NOTED THAT ON COMMERCIAL SITES NO PIPE IS CONSIDERED MAINLINE PIPE UNTIL IT ENTERS THE PUBLIC R-0-W. FURTHER, ON COMMERCIAL SITES PRECAST CONCRETE STRUCTURES, AS DETAILED BY OUTSIDE SOURCES, MAY BE USED SUBJECT TO THE PROVIDING OF A SUITABLE TRANSITION SO THAT CASTINGS PRESCRIBED FOR USE WITHIN PLAINFIELD ARE USED, AND SUBJECT TO STORM SEWER GENERAL NOTE 4 ON SHEET 7.

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.



**Chick-fil-A**

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Atlanta, Georgia 30349-2998

**GBC DESIGN, INC.**

565 White Pond Dr.  
Akron, OH 44320-1123  
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Fax 330-836-5782



**CHICK-FIL-A**  
**PLAINFIELD FSU**  
**2687 EAST MAIN STREET**  
**PLAINFIELD, IN 46168**

**FSU# 01405**

REVISION SCHEDULE	NO.	DATE	DESCRIPTION
	1	5/31/2018	FOR BID
	2	6/18/2018	BID REVISIONS
	3	7/3/2018	CITY COMMENTS
	4	7/18/2018	BYPASS LANE

GBC PROJECT #	5013BR
PRINTED FOR	Bid
DATE	3/22/18
DRAWN BY	BAW

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SHEET  
**GRADING PLAN**

Bid  
SHEET NUMBER  
**C-300**