

LEGEND	
	PROP. FDC
	EX. FIRE HYDRANT
	PROP. VALVE
	EX. VALVE
	PROP. MANHOLE
	EX. MANHOLE
	PROP. BOX INLET
	EX. BOX INLET
	EX. POWER POLE
	EX. TREE
	EX. LIGHT POLE
	EX. CABLE T.V. LINE
	PROP. ELECTRIC LINE
	EX. ELECTRIC LINE
	PROP. GAS LINE
	EX. GAS LINE
	PROP. TELEPHONE LINE
	EX. TELEPHONE LINE
	PROP. SANITARY SEWER
	PROP. SANITARY LATERAL
	EX. SANITARY SEWER
	PROP. STORM SEWER
	PROP. ROOF DRAIN
	EX. STORM SEWER
	PROP. WATER LINE
	PROP. WATER SERVICE
	EX. WATER LINE
	EX. FENCE
	EX. CURB
	PROP. CURB

**UTILITY CONTACTS**

**PLANNING**  
CITY OF LEE'S SUMMIT DEPARTMENT OF PLANNING & DEVELOPMENT  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64063  
ROBERT G. MCKAY  
816-969-1601  
robert.mckay@cityofls.net

**ZONING**  
CITY OF LEE'S SUMMIT DEPARTMENT OF PLANNING & DEVELOPMENT  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64063  
CHRISTINA ALEXANDER  
816-969-1607  
Christina.alexander@cityofls.net

**FIRE DEPARTMENT**  
CITY OF LEE'S SUMMIT FIRE DEPARTMENT  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64063  
JIM EDEN  
816-969-1303  
jim.eden@cityofls.net

**SANITARY SEWER/WATER SERVICE/STORM DRAINAGE/EROSION CONTROL**  
CITY OF LEE'S SUMMIT DEPARTMENT OF PUBLIC WORKS  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64063  
DAVID G. LOHE  
816-969-1814  
david.lohe@cityofls.net

**GAS SERVICE**  
MISSOURI GAS ENERGY  
BOBBIE SAULSBERRY  
816-969-2266  
bobbie.saulsberry@aug.com

**ELECTRIC SERVICE**  
KCP & L  
1300 SE HAMBLEN ROAD  
LEE'S SUMMIT, MO 64081  
DOUG DAVIN  
816-347-4320  
doug.davin@kcpl.com

**TELEPHONE**  
AT&T  
HOLLY GRUBER  
913-383-4853  
hg1753@att.com

BENCHMARKS	
TBM #1 -	PK NAIL ELEVATION = 1018.68
TBM #2 -	PK NAIL ELEVATION = 1018.19
TBM #3 -	PK NAIL ELEVATION = 1018.46

As-built Type	Required		Horizontal	Vertical	Required before Certificate of Occupancy		Signed and Sealed Survey Required	
	Yes	No			Yes	No	Yes	No
Sanitary Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Storm Sewer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Storm Water BMP's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Water Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Full Site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

**GENERAL NOTES**

- THE CONSTRUCTION OF THIS PROJECT SHALL BE GOVERNED BY THE CITY OF LEE'S SUMMIT CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, THE CITY OF LEE'S SUMMIT STANDARD CONSTRUCTION DRAWINGS, AND THE CITY ENGINEERS AND STANDARD CONSTRUCTION DRAWINGS.
- ALL DISTURBED GREEN AREAS SHALL BE TOP DRESSED AND RE-SEEDED.
- CALL MISSOURI ONE CALL, 811, 48 HOURS PRIOR TO CONSTRUCTION.
- ALL STORM SEWERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) SMOOTH LINED PIPE MEETING AASHTO M294 (UNLESS OTHERWISE STATED), TYPE S MAY BE USED.
- EARTHWORK AND SITE PREPARATION SHALL BE AS SPECIFIED IN THE SOILS REPORT.
- ELECTRICAL CONDUIT SHALL BE AS REQUIRED BY THE POWER COMPANY.
- TELEPHONE CONDUIT SHALL BE AS REQUIRED BY THE PHONE COMPANY.
- GAS SERVICE SHALL BE AS REQUIRED BY THE GAS COMPANY.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS IN THE ENGINEERING AND BUILDING DEPARTMENTS.
- ROOF DRAINS MUST BE CONNECTED DIRECTLY TO THE STORM SEWER.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL SILTATION CONTROL MEASURES NECESSARY TO PREVENT SILT FROM LEAVING THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR LEGAL REMOVAL OF DEMOLITION MATERIAL AND DEBRIS.
- THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION, OR BETTER.
- ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- PRICES BID PER FOOT FOR ALL PIPES IS COMPLETE IN PLACE REGARDLESS OF SOIL OR ROCK CONDITIONS.
- TEMPORARY SOIL EROSION AND SEDIMENT CONTROL WILL BE REQUIRED IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT ENGINEERING DEPARTMENT.
- THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CITY ENGINEER AND PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.
- ALL STORM SEWER RUN DISTANCES ARE FROM CENTERLINE TO CENTERLINE OF MANHOLES OR CATCH BASINS. ALL PIPE INVERT ELEVATIONS GIVEN AT MANHOLES ARE AT CENTERLINE OF MANHOLE. ALL STORM SEWER INLETS AND MANHOLES ARE TO HAVE TOP ELEVATIONS.
- A 12 INCH. MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF ALL WATER MAIN PIPE TO THE OUTSIDE EDGE OF ALL STORM SEWER PIPE.
- A 4 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF ALL WATER MAIN PIPE TO THE OUTSIDE EDGE OF ALL STORM SEWER PIPE.
- A 10 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF THE WATER MAIN PIPE TO THE OUTSIDE EDGE OF THE SANITARY SEWER PIPE OR FORCE MAIN PIPE.
- AN 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF ALL WATER MAIN PIPE TO THE OUTSIDE EDGE OF ALL SANITARY SEWER OR FORCE MAIN PIPE.
- ALL SANITARY SEWERS SHALL CONSIST OF PVC SDR-35 MEETING ASTM D-3034 WITH JOINTS CONFORMING TO ASTM D-3212 UNLESS OTHERWISE NOTED.
- ALL ASPHALT MATERIALS SHALL CONFORM TO THE KCMMB ASPHALT MATERIAL SPECIFICATION, CURRENT EDITION.



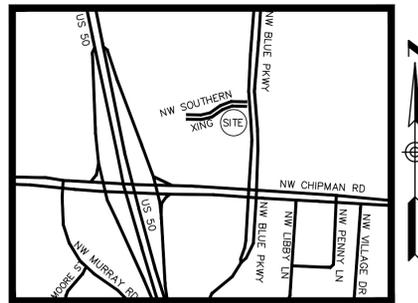
# Chick-fil-A

## SUMMIT FAIR FSU

### STORE #2859

### SITE PLAN DOCUMENTS

690 NW BLUE PARKWAY  
CITY OF LEE'S SUMMIT  
COUNTY OF JACKSON  
STATE OF MISSOURI



LOCATION MAP  
NOT TO SCALE

LATITUDE N 38°55'38" (38.9272)  
LONGITUDE W 94°24'04" (-94.4011)

PREPARED FOR:  
APPLICANT/OWNER: CHICK-FIL-A, INC.  
5200 BUFFINGTON RD.  
ATLANTA, GEORGIA 30349-2998  
CONTACT: MICHAEL YOUNG  
PHONE: (404) 765-8000  
EMAIL: michael.young@cfacorp.com

PREPARED BY:  
**GBC DESIGN, INC.**  
565 White Pond Dr. Akron, OH 44320-1123  
Phone 330-836-0228 Fax 330-836-5782  
CONTACT: GARY R. ROUSE, P.E.  
EMAIL: grouse@gbcdesign.com

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.

FLOOD\_ZONE DESIGNATION: THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO.29095C0417G, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

**LAND DESCRIPTION**

LOT 28, MINOR PLAT OF SUMMIT FAIR, LOTS 28, 29 AND 30, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF, RECORDED FEBRUARY 9, 2010, AS DOCUMENT NO.2010E0012640, IN PLAT BOOK 131 AT PAGE 66.

**OIL AND GAS WELLS**

BASED ON THE AS-BUILT SURVEY DATED 6/13/2023 BY YOUNG-HOBBS & ASSOCIATES THERE ARE NO OIL AND GAS WELLS ON-SITE.

RELEASED FOR CONSTRUCTION  
As Noted on Plan Review  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024

INDEX		SHEET NO.
DESCRIPTION		
2 3 4 TITLE SHEET		C-000
AS-BUILT SURVEY		C-010
EXISTING CONDITIONS PLAN		C-100
2 3 4 PHASE 1 DEMOLITION PLAN		C-110
2 3 4 PHASE 1 SITE PLAN		C-200
2 3 4 PHASE 1 SITE PLAN DETAIL		C-210
2 3 4 PHASE 1 GRADING PLAN		C-300
2 3 4 PHASE 1 GRADING PLAN DETAIL		C-301
2 3 4 STORMWATER POLLUTION PREVENTION PLAN (SWPPP)		C-310
SWPPP DETAILS		C-320
CHICK-FIL-A CIVIL CONSTRUCTION SITE DETAILS		C-400
CHICK-FIL-A CIVIL CONSTRUCTION SITE DETAILS		C-401
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2 3 4 UTILITY PLAN		PS-100
3 4 PHASE 2 DEMOLITION PLAN		C-600
3 4 PHASE 2 SITE PLAN		C-610
3 4 PHASE 2 SITE PLAN DETAIL		C-611
3 4 PHASE 2 GRADING PLAN		C-620
3 4 PHASE 2 GRADING DETAIL		C-621
4 PHASE 2 STORMWATER POLLUTION PREVENTION PLAN (SWPPP)		C-630
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3 4 LANDSCAPE PLAN PHASE 1		L-100
3 4 LANDSCAPE PLAN PHASE 2		L-100.1
LANDSCAPE DETAILS		L-101
LANDSCAPE & MAINTENANCE SPECIFICATIONS		L-102

PRCOM20236522



Chick-fil-A  
5200 Buffington Road  
Atlanta, Georgia 30349-2998

GBC DESIGN, INC.  
565 White Pond Dr. Akron, OH 44320-1123  
Phone 330-836-0228 Fax 330-836-5782



CHICK-FIL-A  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

FSU# 02859

REVISION SCHEDULE	DESCRIPTION	
NO.	DATE	ISSUED FOR BID
1	3/14/2024	FOR CONSTRUCTION
2	4/5/2024	PHASING
3	6/7/2024	PHASING SCOPE
4	6/10/2024	

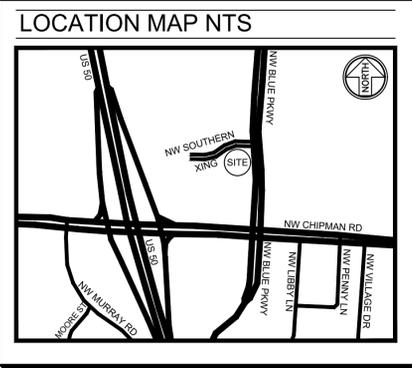
GBC PROJECT #	43216R
PRINTED FOR	Permit
DATE	8/23/23
DRAWN BY	BAW

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SHEET  
TITLE SHEET

SHEET NUMBER

C-000



**CLIENT INFORMATION**

GBC DESIGN, INC.  
565 WHITE POND DRIVE  
AKRON, OH 44320

**SITE ADDRESS**

690 NW BLUE PKWY.  
LEE'S SUMMIT, MO 64086

**PARKING COUNT**

REGULAR SPACES: 64  
HANDICAP SPACES: 3  
TOTAL SPACES: 67

**SITE UTILITIES**

CITY OF LEE'S SUMMIT  
(WATER, STORM, SEWER)  
22 SE GREEN STREET  
LEE'S SUMMIT, MO 64083  
816-969-1900

MISSOURI GAS ENERGY  
(NATURAL GAS)  
PO BOX 412662  
KANSAS CITY, MO 64141-2662  
816-756-5252

KANSAS CITY POWER & LIGHT  
(ELECTRICITY)  
888-471-5275

AT&T  
(TELEPHONE)  
800-464-7928

TIME WARNER  
(CABLE TV)  
816-358-8833

COMCAST  
(CABLE TV)  
816-833-3400

PLANNING AND DEVELOPMENT DEPARTMENT  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64083  
816-969-1600

**OWNER INFORMATION**

THE CHICK-FIL-A INC. PROPERTY  
PARCEL 51-700-04-20-00-0-00-000  
RECORDED IN DOC. 2012E0023733  
LOT 28 OF THE MINOR PLAT OF SUMMIT  
FAIR, LOTS 28, 29 AND 30, A SUBDIVISION  
LOCATED IN SECTION 36, TOWNSHIP 48  
NORTH, RANGE 32 WEST, AND RECORDED  
AS DOCUMENT 2010E0012640, CITY OF  
LEE'S SUMMIT, JACKSON COUNTY,  
MISSOURI

**LAND DESCRIPTION:**

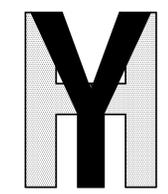
LOT 28, MINOR PLAT OF SUMMIT FAIR, LOTS 28, 29 AND 30, A SUBDIVISION IN THE  
CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE  
RECORDED PLAT THEREOF, RECORDED FEBRUARY 9, 2010, AS DOCUMENT NO.  
2010E0012640, IN PLAT BOOK 131 AT PAGE 66.

**BOUNDARY NOTE:**

THIS SURVEY IS A RETRACEMENT OF THE CHICK-FIL-A INC. PROPERTY  
(RECORDED IN DOC. 2012E0023733) ALTA SURVEY CONDUCTED BY  
SHERRILL ASSOCIATES, INC. DATED FEBRUARY 27, 2012. EASEMENTS  
SHOWN HEREON ARE TAKEN FROM SAID ALTA SURVEY.

A TITLE UPDATE CONDUCTED BY FIDELITY NATIONAL TITLE, WITH A DATE OF  
MAY 4, 2023, WAS PROVIDED TO THIS SURVEYOR. SAID TITLE UPDATE  
CONTAINED AN EASEMENT CONVEYANCE IN FAVOR OF KCP&L GREATER  
MISSOURI OPERATIONS COMPANY, RECORDED ON APRIL 18, 2012 IN  
INSTRUMENT NO. 2012E041514.

PRELIMINARY,  
NOT FOR  
RECORDING OR  
TRANSFER



**YOUNG - HOBBS  
AND  
ASSOCIATES**  
1202 CROSSLAND AVE.  
CLARKSVILLE, TN 37040  
PHONE 931-645-2524  
FAX 931-645-2768



**Chick-fil-A**  
5200 Buffington Road  
Atlanta, Georgia 30349-2998

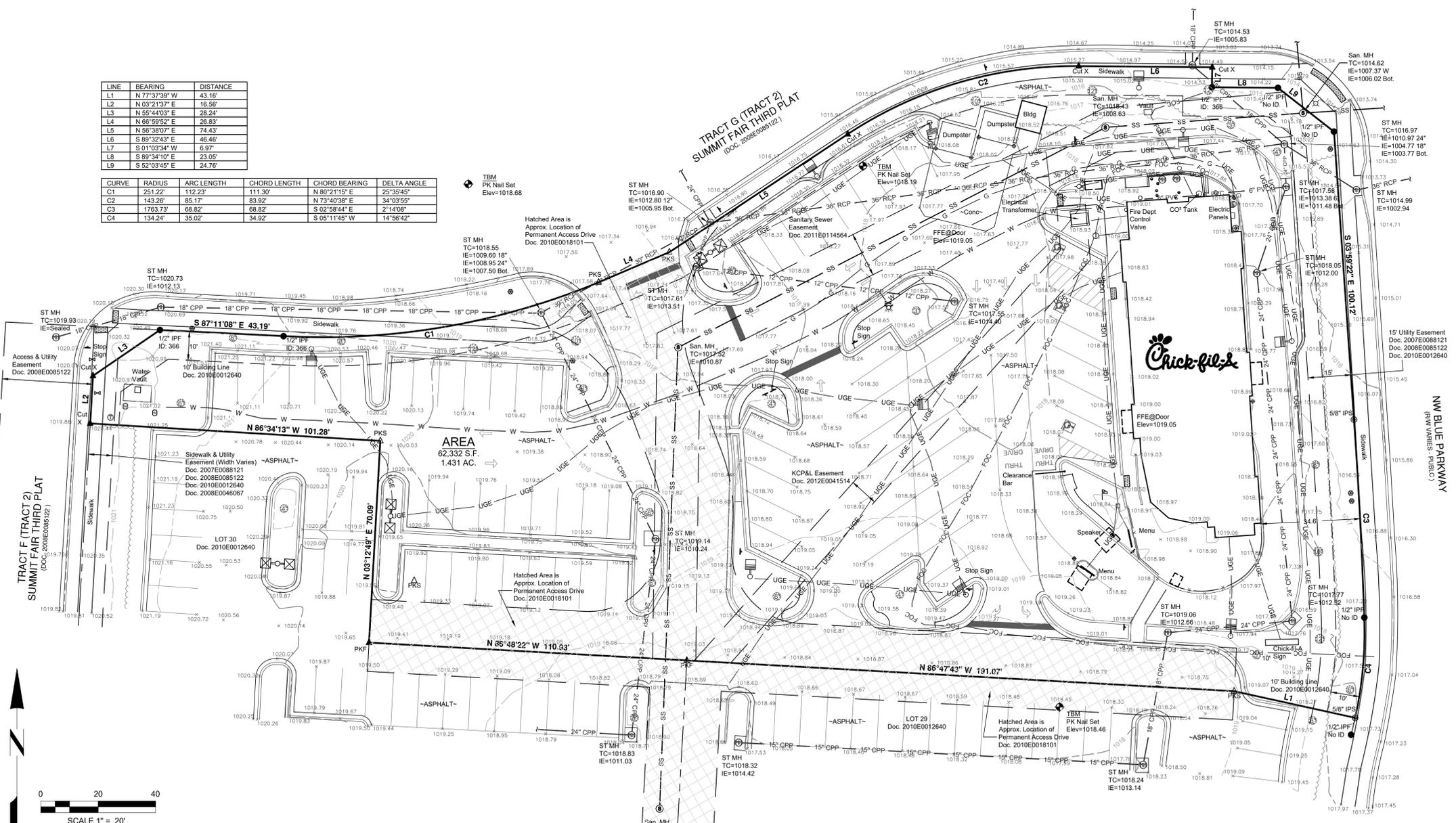
YHA PROJECT #	102-23
DATE (FIELD)	6 / 5/23
DATE (OFFICE)	6 / 12/23
CHECKED BY	DRH

**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review  
  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024

LINE	BEARING	DISTANCE
L1	N 77°37'39" W	43.16'
L2	N 03°21'37" E	16.56'
L3	N 55°44'03" E	28.24'
L4	N 66°59'52" E	26.83'
L5	N 56°38'07" E	74.43'
L6	S 89°32'43" E	46.46'
L7	S 01°03'34" W	6.97'
L8	S 89°34'10" E	23.05'
L9	S 52°03'45" E	24.76'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	251.22'	112.23'	111.30'	N 80°21'15" E	25°35'45"
C2	143.26'	85.17'	83.92'	N 73°40'38" E	34°03'56"
C3	1763.73'	68.82'	68.82'	S 02°58'44" E	2°14'08"
C4	134.24'	35.02'	34.92'	S 05°11'45" W	14°56'42"



**SURVEY NOTES:**

INFORMATION REGARDING THE PRESENCE, SIZE AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN HEREON. THIS INFORMATION HAS BEEN SHOWN BASED ON THE LOCATION ABOVE GROUND APPURTENANCES, AVAILABLE DESIGN PLANS, AND FLAGS AND PAINT PLACED BY THE UNDERGROUND PROTECTION SERVICE. NO CERTIFICATION IS MADE AS TO THE ACCURACY OR THOROUGHNESS OF THE INFORMATION CONCERNING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON. (MISSOURI ONE CALL 1-800-DIG-RITE). THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A PRIVATE UTILITY LOCATE.

CONTACT PROPER AUTHORITIES BEFORE BUILDING NEAR UTILITY LINES, FOR EASEMENT WIDTH AND RESTRICTIONS. UTILITIES ARE APPROXIMATE AND SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION.

UNLESS STATED OTHERWISE, ANY MONUMENT REFERRED TO HEREIN AS AN "IRON PIN SET" IS A SET 5/8" DIAMETER REBAR, WITH A YELLOW PLASTIC CAP STAMPED "YOUNG-HOBBS".

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

LIST OF ENCROACHMENTS: NONE

THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 29095C0417G, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

CONTOURS WERE DERIVED FROM RANDOM SHOTS AND CROSS SECTIONS AND ARE SHOWN AT ONE FOOT INTERVALS. ELEVATIONS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS TOGETHER WITH AN OPUS SOLUTION, DATED 6/13/2023 (NAVD83.GEIOD18).

I DO HEREBY STATE THAT THIS IS A TRUE, COMPLETE AND CORRECT SURVEY OF THE DESCRIBED REAL PROPERTY SITUATED IN THE COUNTY OF GREENE, MISSOURI AND THAT THIS SURVEY WAS EXECUTED IN ACCORDANCE WITH THE CURRENT MISSOURI MINIMUM STANDARDS FOR PROPERTY SURVEYS (URBAN SURVEY 1:20,000)

**LEGEND**

- IRON PIN SET (IPS)
- IRON PIN FOUND, AS NOTED
- ⊕ BENCHMARK, AS NOTED
- ⊙ BOLLARD
- ⊙ SIGN, AS NOTED
- ⊙ SEWER CLEAN OUT
- ⊙ SEWER MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ WATER VALVE
- ⊙ WATER METER
- ⊙ ELECTRIC VAULT
- ⊙ TRAFFIC POLE
- ⊙ ELECTRIC METER
- ⊙ OUTLET (ELECTRIC)
- ⊙ ROOF DRAIN
- ⊙ IRRIGATION VALVE
- ⊙ GAS METER
- ⊙ GATE POST
- ⊙ TELEPHONE BOX
- ⊙ STORM SEWER MANHOLE
- ⊙ PROPERTY LINE
- ⊙ EASEMENT LINE
- ⊙ SETBACK LINES
- ⊙ UNDERGROUND ELECTRIC
- ⊙ FENCE LINE
- ⊙ GAS LINE, AS NOTED
- ⊙ WATER LINE, AS NOTED
- ⊙ SANITARY SEWER, AS NOTED
- ⊙ UNDERGROUND FIBER OPTIC
- ⊙ STORM SEWER PIPE, AS NOTED
- ⊙ LANDSCAPE AREA
- ⊙ OVERHANG
- ⊙ LIGHT POLE
- ⊙ LIGHT POLE(2-WAY)

GBC DESIGN, INC.  
565 White Pond Dr.  
Akron, OH 44320-1123  
Phone 330-836-0228

**CHICK-FIL-A**  
LEE'S SUMMIT, MO

690 NW BLUE PKWY.  
LEE'S SUMMIT, MO 64086

**FSU# 2859**

NO.	DATE	DESCRIPTION

GBC PROJECT #  
PRINTED FOR  
DATE 6/13/23  
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**AS-BUILT  
SURVEY**  
SHEET 1 OF 1  
SHEET NUMBER

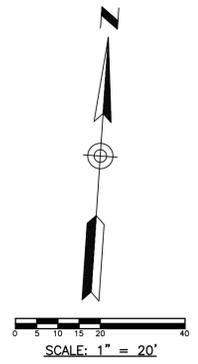
**C-010**

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.

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**LEGEND**

- EX. FIRE HYDRANT
- EX. VALVE
- EX. MANHOLE
- EX. CATCH BASIN
- EX. BOX INLET
- EX. LIGHT POLE
- EX. DECORATIVE LAMP
- EX. POWER POLE
- EX. TREE
- EX. TELEPHONE LINE
- EX. ELECTRIC LINE
- EX. OVERHEAD WIRE
- EX. GAS LINE
- EX. SANITARY SEWER
- EX. STORM SEWER
- EX. WATER LINE
- EX. CURB



**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review

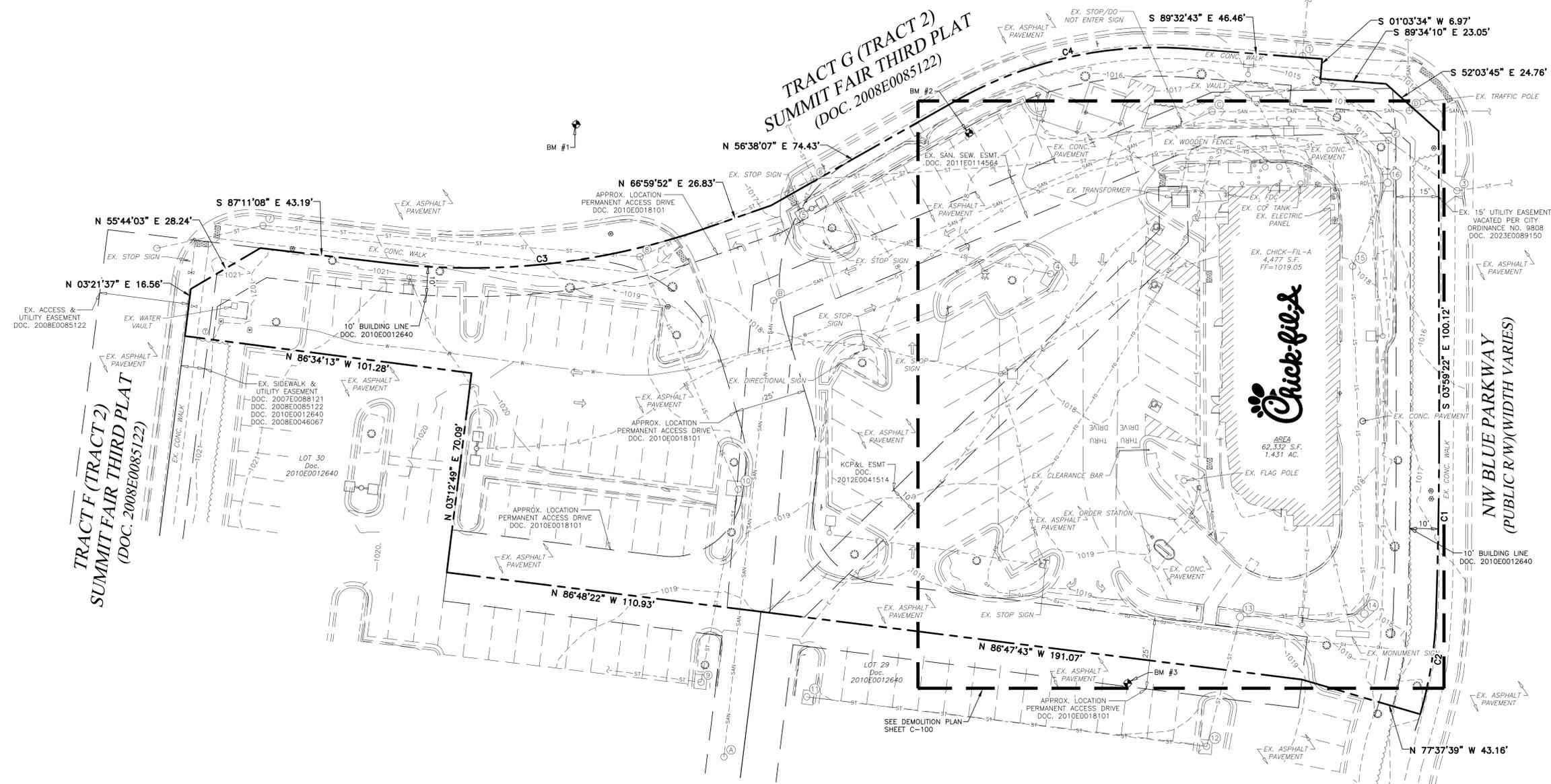
Development Services Department  
Lee's Summit, Missouri  
06/13/2024

**EXISTING STORM SEWER STRUCTURE SCHEDULE**

1. EX. CURB INLET M.H.  
TOP 1014.53  
INV. 1005.83, 18" N  
INV. 1005.83, 18" SE
2. EX. STM. M.H.  
TOP 1016.97  
INV. 1004.77, 18" NW  
INV. 1003.77, 36" SE  
INV. 1003.77, 36" W  
INV. 1010.97, 24" S
3. EX. CURB INLET M.H.  
TOP 1014.99  
INV. 1002.94, 36" NW  
INV. 1002.94, 36" E
4. EX. CATCH BASIN  
TOP 1017.55  
INV. 1014.40, 12" W
5. EX. CURB INLET M.H.  
TOP 1017.61  
INV. 1013.51, 12" E  
INV. 1013.51, 12" N
6. EX. CURB INLET M.H.  
TOP 1016.90  
INV. 1012.80, 12" S  
INV. 1005.95, 36" E  
INV. 1006.11, 24" NW  
INV. 1005.95, 30" SW
7. EX. STM. M.H.  
TOP 1020.73  
INV. 1012.13, 18" W  
INV. 1012.13, 18" E
8. EX. STM. M.H.  
TOP 1018.55  
INV. 1009.60, 18" W  
INV. 1007.50, 30" NE  
INV. 1008.95, 24" SE
9. EX. CURB INLET M.H.  
TOP 1018.83  
INV. 1011.03, 24" W  
INV. 1011.03, 24" N
10. EX. CURB INLET M.H.  
TOP 1019.14  
INV. 1010.24, 24" S  
INV. 1010.24, 24" NW
11. EX. CATCH BASIN  
TOP 1018.32  
INV. 1014.42, 15" E
12. EX. CURB INLET M.H.  
TOP 1018.24  
INV. 1013.14, 15" W  
INV. 1013.14, 18" N
13. EX. CURB INLET M.H.  
TOP 1019.06  
INV. 1012.66, 18" S  
INV. 1012.66, 24" E
14. EX. CURB INLET M.H.  
TOP 1017.77  
INV. 1012.32, 24" W  
INV. 1012.32, 24" N
15. EX. STM. M.H.  
TOP 1018.05  
INV. 1012.00, 24" S  
INV. 1012.00, 24" N
16. EX. CURB INLET M.H.  
TOP 1017.58  
INV. 1011.48, 24" S  
INV. 1011.48, 24" N  
INV. 1013.38, 6" W

**EXISTING SANITARY SEWER STRUCTURE SCHEDULE**

- A. EX. SAN. M.H.  
TOP 1018.95  
INV. 1012.30, 8" N
- B. EX. SAN. M.H.  
TOP 1017.52  
INV. 1010.87, 8" S  
INV. 1010.87, 8" NE
- C. EX. SAN. M.H.  
TOP 1018.43  
INV. 1008.63, 8" SW  
INV. 1008.63, 8" E
- D. EX. SAN. M.H.  
TOP 1014.62  
INV. 1007.37, 8" W  
INV. 1006.02, 8" E  
INV. 1006.02, 8" N



**Chick-fil-A**

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5200 Buffington Road  
Atlanta, Georgia 30349-2998

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**CHICK-FIL-A**  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

REVISION SCHEDULE	NO.	DATE	DESCRIPTION
1	3/14/2024	ISSUED FOR BID	

GBC PROJECT #	43215R
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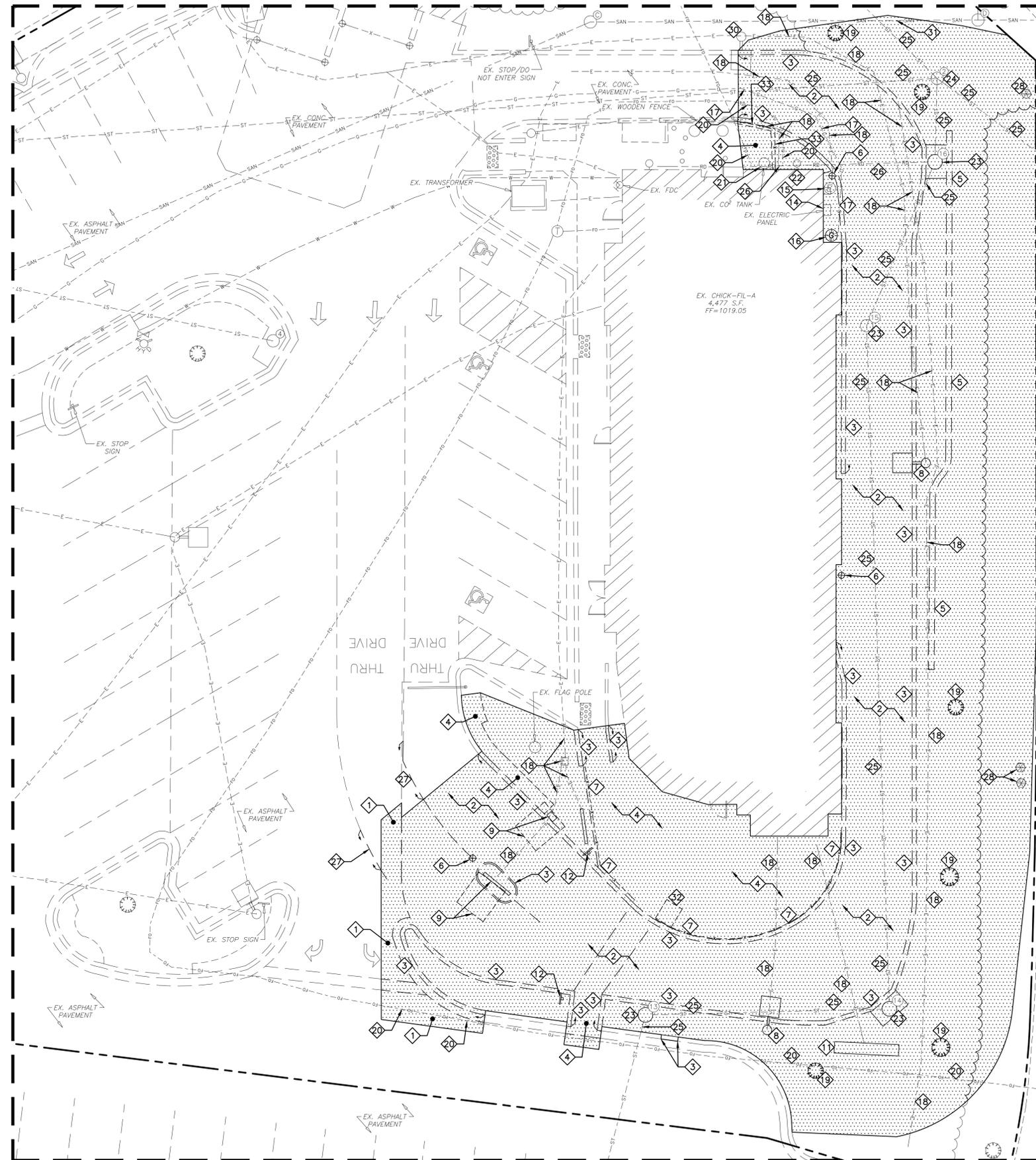
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SHEET  
**EXISTING CONDITIONS PLAN**

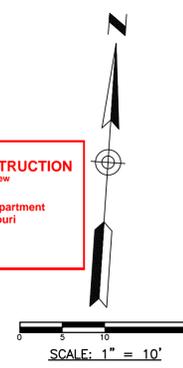
SHEET NUMBER  
**C-100**

**DEMOLITION NOTES**

- 1 EXISTING ASPHALT PAVEMENT TO BE SAWCUT FULL DEPTH AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 2 EXISTING CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 3 EXISTING CONCRETE CURB TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 4 EXISTING CONCRETE SIDEWALK TO BE SAWCUT AT NEAREST JOINT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 5 EXISTING WALL TO BE REMOVED
- 6 EXISTING BOLLARD TO BE REMOVED
- 7 EXISTING RAILING TO BE REMOVED
- 8 EXISTING LIGHT POLE & ASSOCIATED UTILITIES TO BE RELOCATED
- 9 EXISTING ORDER STATION & ASSOCIATED UTILITIES TO BE REMOVED
- 10 EXISTING HYDRANT ASSEMBLY TO BE RELOCATED
- 11 EXISTING MONUMENT SIGN & ASSOCIATED UTILITIES TO BE RELOCATED
- 12 EXISTING SIGN TO BE REMOVED
- 13 EXISTING SIGN TO REMAIN
- 14 EXISTING UTILITY PANEL TO REMAIN
- 15 EXISTING ELECTRIC METER TO REMAIN
- 16 EXISTING GAS METER TO BE REPLACED BY GAS COMPANY
- 17 EXISTING GAS SERVICE TO REMAIN
- 18 EXISTING ELECTRIC TO REMAIN
- 19 EXISTING TREE TO BE REMOVED
- 20 EXISTING COMMUNICATIONS TO REMAIN
- 21 EXISTING CO2 TANK TO REMAIN
- 22 EXISTING DOWNSPOUT TO REMAIN
- 23 EXISTING STORM STRUCTURE TO REMAIN. CONTRACTOR TO MODIFY EXISTING STRUCTURE TO PROPOSED CONDITIONS SHOWN ON SHEET C-300
- 24 EXISTING STORM STRUCTURE TO REMAIN. CONTRACTOR TO REPLACE SOLID MANHOLE COVER WITH HEAVY DUTY OPEN GRATE COVER.
- 25 EXISTING STORM SEWER TO REMAIN
- 26 EXISTING ROOF DRAIN TO REMAIN
- 27 EXISTING PAINT STRIPING TO BE BLACKED OUT AS NEEDED FOR NEW LAYOUT
- 28 EXISTING IRRIGATION TO REMAIN
- 29 EXISTING WATER LINE TO REMAIN
- 30 EXISTING LIGHT POLE TO REMAIN
- 31 EXISTING SANITARY SEWER TO REMAIN
- 32 EXISTING CASH STATION TO BE REMOVED
- 33 EXISTING WOODEN FENCING TO BE REMOVED AND REPLACED



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**LEGEND**

	EX. FIRE HYDRANT
	EX. VALVE
	EX. MANHOLE
	EX. CATCH BASIN
	EX. BOX INLET
	EX. LIGHT POLE
	EX. DECORATIVE LAMP
	EX. POWER POLE
	EX. TREE
	EX. TELEPHONE LINE
	EX. ELECTRIC LINE
	EX. OVERHEAD WIRE
	EX. GAS LINE
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. WATER LINE
	EX. CURB
	EX. UNKNOWN UTILITY

AREA OF DEMOLITION INCLUDING PAVEMENT REMOVAL, BUILDINGS, CONCRETE, SIGNS, LIGHT POLES, UTILITY SERVICES, FENCES, TREES, ETC.

LIMITS OF DISTURBANCE = 0.25 AC.



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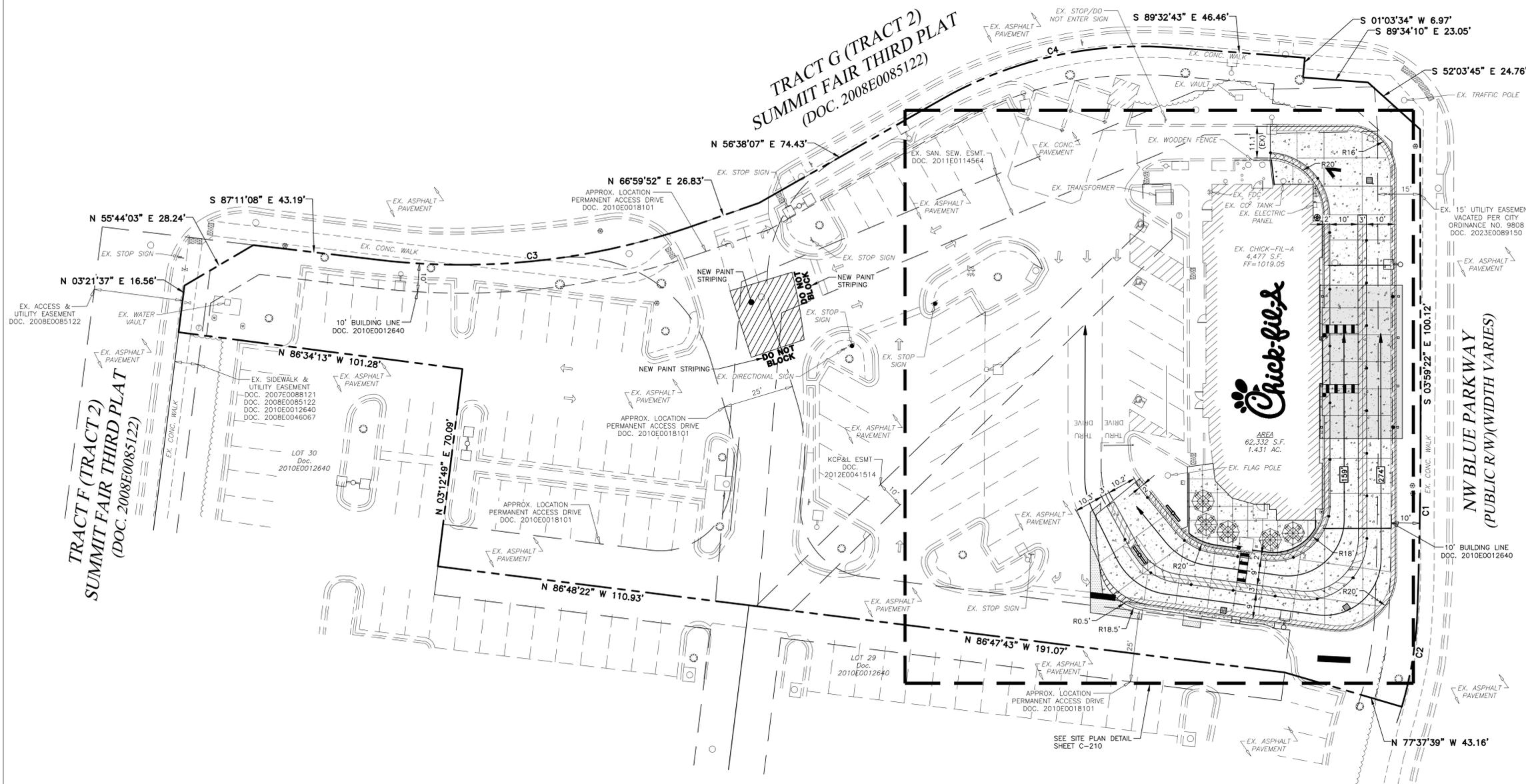
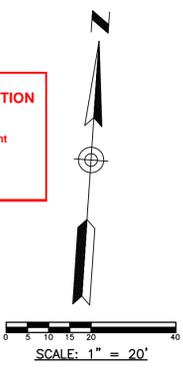
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SHEET  
**PHASE 1  
DEMOLITION  
PLAN**

SHEET NUMBER  
**C-110**

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.

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**LEGEND**

▲	PROP. FIRE HYDRANT
△	EX. FIRE HYDRANT
⊕	PROP. VALVE
⊖	EX. VALVE
⊙	PROP. MANHOLE
⊘	EX. MANHOLE
○	PROP. INLET
□	EX. BOX INLET
○	EX. LIGHT POLE
⊞	PROP. LIGHT POLE
▬	PROP. ACCESSIBLE RAMP - RAMP IS NOT TO BE SCORED OR GROOVED
▬	EX. CURB
▬	PROP. CURB & GUTTER
▬	PROP. ASPHALT PAVEMENT
▬	PROP. CONCRETE PAVEMENT/WALK

TOTAL PARCEL SIZE: 1.4310 AC.

REQUIRED SETBACKS	BUILDING	LANDSCAPE
FRONT (OLIVE GARDEN)	15'	0'
LEFT SIDE (ENTRANCE DRIVE)	10'	0'
RIGHT SIDE (NW BLUE PARKWAY)	15'	20'
REAR (NW SOUTHERN XING)	20'	20'

PARKING SUMMARY:

REQUIREMENT: 14 SPACES PER 1,000 SQUARE FEET.

TOTAL PARKING SPACES REQUIRED (PROPOSED CONDITIONS):  
4,477 S.F. / 1,000 S.F. x 14 SPACES = 62.7  
= 63 SPACES

EXISTING PARKING SPACES PROVIDED:	
REGULAR SPACES	= 64
ACCESSIBLE SPACES	= 3
TOTAL	= 67

PROPOSED PARKING SPACES PROVIDED:	
REGULAR SPACES	= 64
ACCESSIBLE SPACES	= 3
TOTAL	= 67

PARKING REDUCTION APPROVED BY CITY COUNCIL ON 12/5/2023 UNDER CITY ORDINANCE NO. 9811.

<b>EXISTING AREA TABULATION</b>	
IMPERVIOUS AREA	
BUILDINGS	= 4,477 S.F.
ASPHALT PAVEMENT	= 31,020 S.F.
CONCRETE PAVEMENT	= 13,840 S.F.
SUBTOTAL	= 49,337 S.F. (79.15%)
PERVIOUS AREA	
LANDSCAPE/PLANTING	= 12,995 S.F. (20.85%)
TOTAL AREA	= 62,332 S.F. (1.43 AC.)
<b>NEW DEVELOPMENT AREA TABULATION</b>	
IMPERVIOUS AREA	
BUILDINGS	= 4,477 S.F.
ASPHALT PAVEMENT	= 31,107 S.F.
CONCRETE PAVEMENT	= 16,487 S.F.
SUBTOTAL	= 52,071 S.F. (83.55%)
PERVIOUS AREA	
LANDSCAPE/PLANTING	= 10,251 S.F. (16.45%)
TOTAL AREA	= 62,332 S.F. (1.43 AC.)

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD LENGTH	CHORD BEARING
C1	68.82'	1763.73'	2'14"08"	34.41'	68.82'	S 02°58'44" E
C2	35.02'	134.24'	14°56'42"	17.61'	34.92'	S 05°11'45" W
C3	112.23'	251.22'	25°35'45"	57.07'	111.30'	N 80°21'15" E
C4	85.17'	143.26'	34°03'55"	43.89'	83.92'	N 73°40'38" E

**FLOOD ZONE DESIGNATION:** THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 29095C0417G, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

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SHEET  
**PHASE 1**  
SITE PLAN

Permit SHEET NUMBER  
**C-200**

NOTE: FOR CONCRETE PAVEMENT CONSTRUCTION - SEE JOINTING DETAILS 9, 10, 11, & 12 ON SHEET C-402

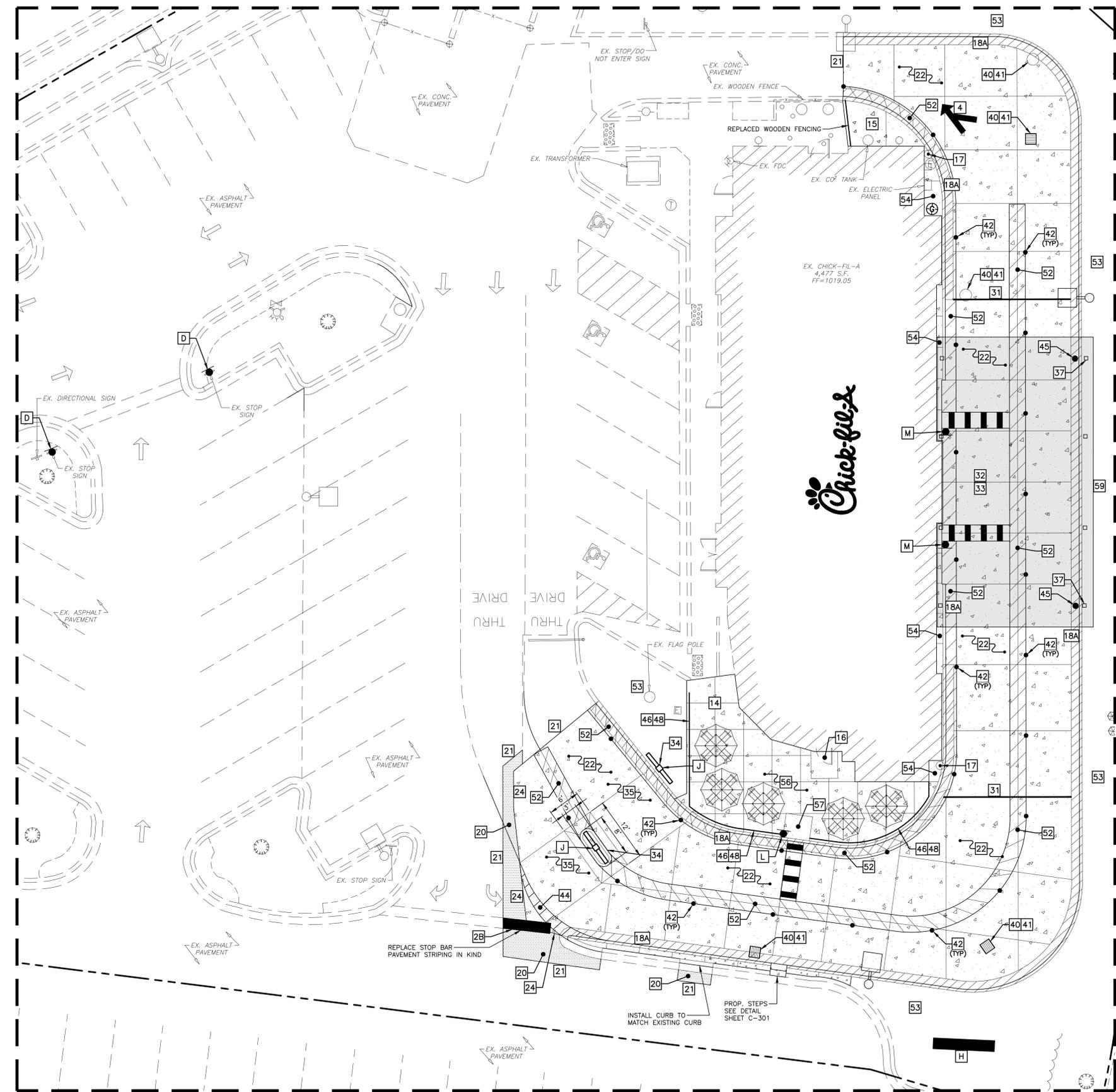
SITE PLAN DESIGN NOTES & KEY SHEET

- 1A PAINTED DIRECTIONAL ARROW DETAIL 1A/C-400
- 1B PAINTED ACCESSIBILITY PARKING SYMBOL DETAIL 1B/C-400
- 2A PAINTED DRIVE-THRU GRAPHIC DETAIL 2A/C-400
- 2B PAINTED STOP BAR GRAPHIC DETAIL 2B/C-400
- 3 CROSSWALK MARKING DETAIL 3/C-400
- 4 MULTI-LANE DIRECTIONAL GRAPHICS DETAIL 4/C-400
- 5 STANDARD OR ACCESSIBLE PARKING STALL PER CODE DETAIL 5/C-400
- 6 SOLID PLASTIC WHEEL STOP DETAIL 6/C-400
- 7 BOLLARD MOUNTED SIGN DETAIL 7/C-400
- 8 CURB RAMP W/ SHORT FLARED SIDES (GRASSED AREAS) DETAIL 8/C-400
- 9 CURB RAMP W/ FLARED SIDES (IN SIDEWALK) DETAIL 9/C-400
- 10 RETURNED CURB ACCESSIBLE RAMP DETAIL 10/C-400
- 11 SIDEWALK ACCESSIBLE RAMP DETAIL 1/C-401
- 12 DETECTABLE WARNING DEVICE DETAIL 2/C-401
- 13 TYPICAL ADA RAMP & HANDRAIL DETAIL 3/C-401
- 14 CONCRETE SIDEWALK DETAIL 4/C-401
- 15 CONCRETE SIDEWALK W/ CURB & GUTTER DETAIL 5/C-401
- 16 ENTRY DOOR FROST SLAB DETAIL DETAIL 6/C-401
- 17 CONCRETE BOLLARD DETAIL 7/C-401
- 18 CONCRETE CURB & GUTTER DETAIL 8/C-401

- 18A SPILLING CURB & GUTTER
- 18B CATCHING CURB & GUTTER
- 18C DEPRESSED SPILLING CURB & GUTTER
- 18D DEPRESSED CATCHING CURB & GUTTER
- 18E SPILLING GUTTER SECTION AT ACCESSIBLE RAMP
- 18F CATCHING GUTTER SECTION AT ACCESSIBLE RAMP
- 18G MOUNTABLE CURB & GUTTER

- 19 LANDSCAPE & IRRIGATION PROTECTOR DETAIL 9/C-401
- 20 TYPICAL HMA PAVEMENT SECTION DETAIL 1/C-402
- 21 BUTT JOINT DETAIL 2/C-402
- 22 CONCRETE PAVEMENT DRIVE-THRU LANE DETAIL 3/C-402
- 23 CONCRETE APRON AT TRASH ENCLOSURE DETAIL 4/C-402
- 24 PAVEMENT EDGE DETAIL (START AND END OF DRIVE-THRU LANES) DETAIL 5/C-402
- 25 CONCRETE PAVEMENT SECTIONS DETAIL 6/C-402
- 26 TRANSVERSE & LONGITUDINAL CONTRACTION JOINT DETAIL 7/C-402
- 27 TRANSVERSE & LONGITUDINAL DOWELED CONSTRUCTION JOINT DETAIL 8/C-402
- 28 CONTRACTION JOINT DETAIL 9/C-402
- 29 KEVED CONSTRUCTION JOINT DETAIL 10/C-402
- 30 LONGITUDINAL BUTT JOINT DETAIL 11/C-402
- 31 EXPANSION JOINT DETAIL 12/C-402
- 32 DRIVE-THRU PLAN - FLUSH WITH FFE DETAIL 1/C-403
- 33 DRIVE-THRU ISOMETRIC DETAIL 2/C-403
- 34 DRIVE-THRU ORDER POINT ISLAND DETAIL 3/C-403
- 35 MENU BOARD LOOP DETECTION SYSTEM DETAIL 4/C-403
- 36 BUILDING DOWNSPOUT CONNECTION (TO SITE DRAINAGE SYSTEM) DETAIL 5/C-403
- 37 CANOPY DOWNSPOUT CONNECTION (TO SITE DRAINAGE SYSTEM) DETAIL 6/C-403
- 38 SCREENED REFUSE ENCLOSURE (REFER TO ARCH PLANS FOR ADDITIONAL DETAILS) DETAIL 7/C-403
- 39 CLEAN-OUT (OUTSIDE OF BUILDING) DETAIL 8/C-403
- 40 THICKENED PAVEMENT @ STRUCTURES DETAIL 9/C-403
- 41 STORM STRUCTURE WEEP HOLE DETAILS DETAIL 10/C-403
- 42 YELLOW SAFETY POST DETAIL 1/C-404
- 43 BIKE RACK DETAIL 2/C-404
- 44 PAVEMENT STRIPING AREA DETAIL 3/C-404
- 45 STORM SEWER CLEANOUT DETAIL 4/C-404
- 46 THICKENED SLAB EDGE AT RAILING CORE-DRILLS DETAIL 5/C-404
- 47 CONCRETE FLUME DETAIL 6/C-404
- 48 ALUMINUM HANDRAIL (REFER TO ARCH PLANS)
- 49 DRIVE-THRU CLEARANCE BAR (REFER TO SIGNAGE PACKAGE)
- 50 GREASE TRAP
- 51 PROPOSED TRANSFORMER
- 52 STRIPING PER CHICK-FIL-A DUAL FLEX LANE REQUIREMENTS
- 53 LANDSCAPED AREA
- 54 4" THICK CONCRETE STRIP BETWEEN BUILDING & BACK OF CURB
- 55 4" THICK CONCRETE STRIP BETWEEN CURBS
- 56 TYPICAL LOCATION FOR OUTDOOR TABLES (REFER TO ARCH PLANS)
- 57 CONCRETE PAD FOR OPTIONAL CASH STATION
- 58 FREE-STANDING ORDER POINT CANOPY
- 59 FREE-STANDING OUTSIDE MEAL DELIVERY CANOPY

- SIGN LEGEND
- \*\* CONTRACTOR TO REFER TO THE SIGNAGE PACKAGE FOR PLACEMENT AND SPECIFICATIONS OF ALL SIGNS \*\*
  - A ACCESSIBLE PARKING SIGN (SEE SIGNAGE PACKAGE) R7-8; 12"x18" (TYP.)
  - B ACCESSIBLE PARKING FINE SIGN (SEE SIGNAGE PACKAGE) 6"x12" (TYP.)
  - C "VAN ACCESSIBLE" SIGN (SEE SIGNAGE PACKAGE) R7-8P; 6"x12" (TYP.)
  - D "DO NOT ENTER" SIGN (SEE SIGNAGE PACKAGE) R5-1; 24"x24" (TYP.)
  - E STOP SIGN (SEE SIGNAGE PACKAGE) R1-1; 30"x30" (TYP.)
  - F 6FA PEDESTRIAN CROSSING SIGN (SEE SIGNAGE PACKAGE)
  - G RELOCATED FLAG POLE
  - H RELOCATED CFA MONUMENT SIGN
  - J DIGITAL DRIVE-THRU MENU BOARDS
  - K "ONE-WAY" SIGN (SEE SIGNAGE PACKAGE)
  - L "WATCH FOR VEHICLES" SIGN (SEE SIGNAGE PACKAGE)
  - M "TEAM MEMBER CROSSING" SIGN (SEE SIGNAGE PACKAGE)



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- LEGEND
- ▲ PROP. FIRE HYDRANT
  - ▲ EX. FIRE HYDRANT
  - ▼ PROP. VALVE
  - ▼ EX. VALVE
  - PROP. MANHOLE
  - EX. MANHOLE
  - PROP. INLET
  - EX. BOX INLET
  - EX. LIGHT POLE
  - PROP. LIGHT POLE
  - ▬ PROP. ACCESSIBLE RAMP - RAMP IS NOT TO BE SCORED OR GROOVED
  - ▬ EX. CURB
  - ▬ PROP. CURB & GUTTER
  - ▬ PROP. ASPHALT PAVEMENT
  - ▬ PROP. CONCRETE PAVEMENT/WALK

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SHEET PHASE 1  
SITE PLAN  
DETAIL  
SHEET NUMBER C-210

**GRADING & UTILITY NOTES**

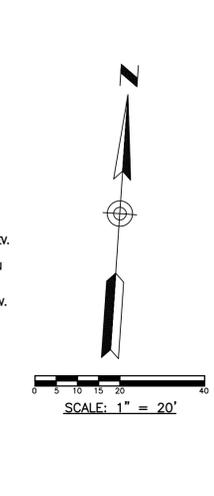
- LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR 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/SERVICE. 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 AND SUBGRADE AREAS 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. SHOULD SUBBASE BE DEEMED 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.
- CONDITION OF EXISTING UNDERGROUND STORAGE TO BE DETERMINED PRIOR TO START OF CONSTRUCTION. AS DETERMINED BY INSPECTION OF EXISTING SYSTEM CLEANING MAY BE REQUIRED PRIOR TO START OF CONSTRUCTION. REPORT CONDITION TO PROJECT ENGINEER IN ADDITION TO MODIFICATION TO OUTLET PIPE OTHER ADJUSTMENTS TO SYSTEM MAY BE REQUIRED BASED ON CONDITION OF SYSTEM.

**LEGEND**

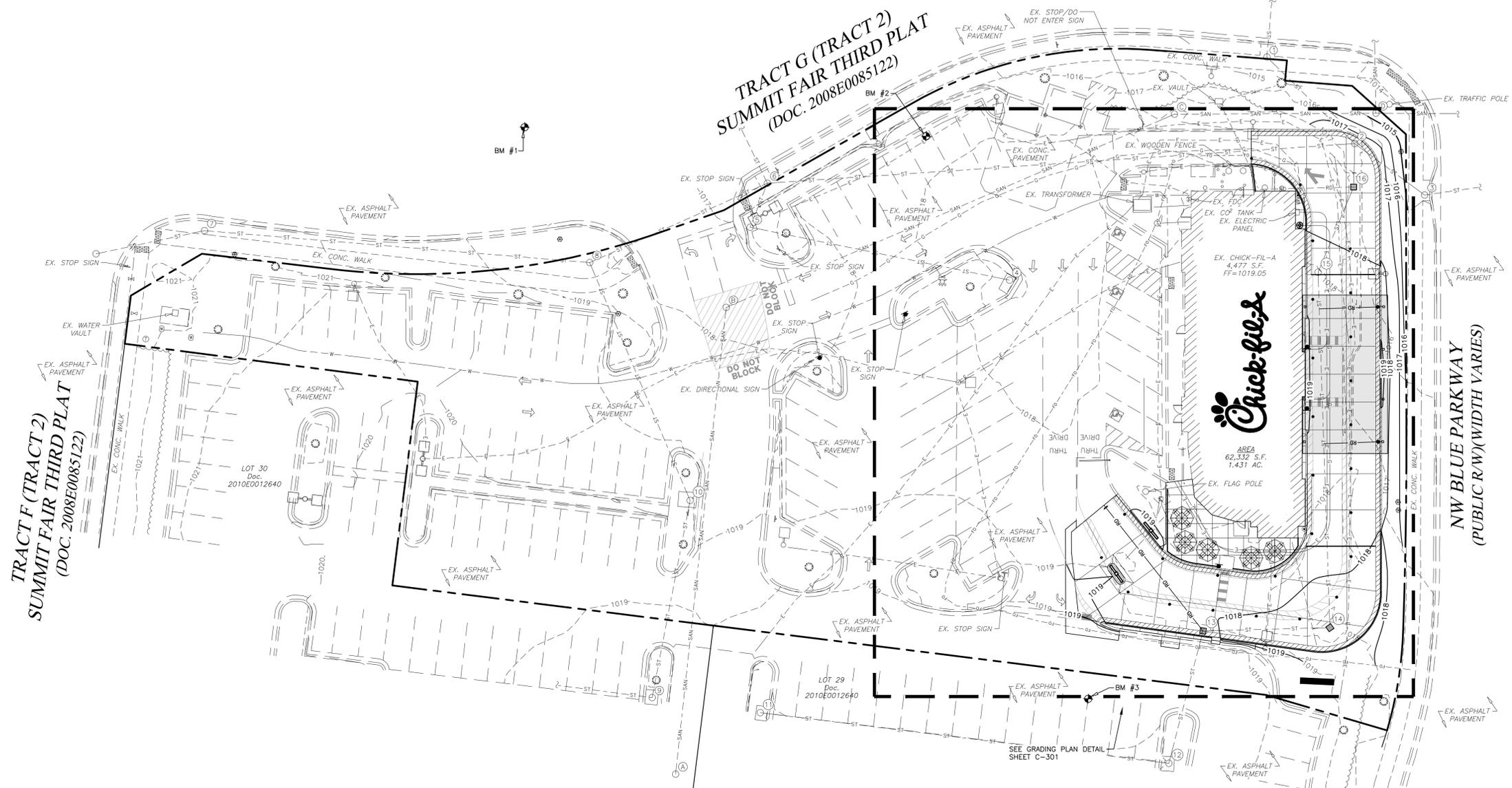
- ▲ PROP. FDC
- △ EX. FIRE HYDRANT
- PROP. VALVE
- EX. VALVE
- ⊠ PROP. MANHOLE
- ⊞ EX. MANHOLE
- PROP. INLET
- EX. INLET
- EX. GRADE
- PROP. TOP OF CURB ELEV.
- PROP. BOTTOM OF CURB ELEV.
- PROP. FINISHED ELEVATION
- PROP. TOP OF WALL ELEV.
- PROP. BOTTOM OF WALL ELEV.
- POSITIVE DRAINAGE
- EX. STORM SEWER
- PROP. STORM SEWER
- EX. CURB
- PROP. CURB & GUTTER
- PROP. CONTOURS
- EX. CONTOURS
- MEET EXISTING ELEVATION



**EXISTING STORM SEWER STRUCTURE SCHEDULE**

- EX. CURB INLET M.H.  
TOP 1014.53  
INV. 1005.83, 18" N  
INV. 1005.83, 18" SE
- EX. STM. M.H.  
TOP 1016.97 (EX.)  
INV. 1004.77, 18" NW  
INV. 1003.77, 36" SE  
INV. 1003.77, 36" W  
INV. 1010.97, 24" S
- EX. CURB INLET M.H.  
TOP 1014.99  
INV. 1002.94, 36" NW  
INV. 1002.94, 36" E
- EX. CATCH BASIN  
TOP 1017.55  
INV. 1014.40, 12" W
- EX. CURB INLET M.H.  
TOP 1017.61  
INV. 1013.51, 12" E  
INV. 1013.51, 12" N
- EX. CURB INLET M.H.  
TOP 1016.90  
INV. 1012.80, 12" S  
INV. 1005.95, 36" E  
INV. 1006.11, 24" NW  
INV. 1005.95, 30" SW
- EX. STM. M.H.  
TOP 1020.73  
INV. 1012.13, 18" W  
INV. 1012.13, 18" E
- EX. STM. M.H.  
TOP 1018.55  
INV. 1009.60, 18" W  
INV. 1007.50, 30" NE  
INV. 1008.95, 24" SE
- EX. CURB INLET M.H.  
TOP 1018.83  
INV. 1011.03, 24" W  
INV. 1011.03, 24" N
- EX. CURB INLET M.H.  
TOP 1019.14  
INV. 1010.24, 24" S  
INV. 1010.24, 24" NW
- EX. CATCH BASIN  
TOP 1018.32  
INV. 1014.42, 15" E
- EX. CURB INLET M.H.  
TOP 1018.24  
INV. 1013.14, 15" W  
INV. 1013.14, 18" N
- EX. CURB INLET M.H.  
PROP. CATCH BASIN (EJW #5250 FRAME & GRATE)  
TOP 1019.06 (EX.)  
TOP 1018.16 (PROP.)  
INV. 1012.66, 18" S  
INV. 1012.66, 24" E
- EX. CURB INLET M.H.  
PROP. CATCH BASIN (EJW #5250 FRAME & GRATE)  
TOP 1017.77 (EX.)  
TOP 1017.40 (PROP.)  
INV. 1012.32, 24" W  
INV. 1012.32, 24" N
- EX. STM. M.H.  
TOP 1018.05 (EX.)  
TOP 1018.48 (PROP.)  
INV. 1012.00, 24" S  
INV. 1012.00, 24" N
- EX. CURB INLET M.H.  
PROP. CATCH BASIN (EJW #5250 FRAME & GRATE)  
TOP 1017.58 (EX.)  
TOP 1017.39 (PROP.)  
INV. 1011.48, 24" S  
INV. 1011.48, 24" N  
INV. 1013.38, 6" W

**RELEASED FOR CONSTRUCTION**  
 As Noted on Plan Review  
 Development Services Department  
 Lee's Summit, Missouri  
 06/13/2024



**Chick-fil-A**

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**CHICK-FIL-A**  
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690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

NO.	DATE	DESCRIPTION
1	3/14/2024	ISSUED FOR BID
2	4/9/2024	FOR CONSTRUCTION
3	6/7/2024	PHASING
4	6/10/2024	PHASING SCOPE

GBC PROJECT #	43215R
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SHEET  
**PHASE 1**  
**GRADING PLAN**

Permit SHEET NUMBER

**C-300**

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.

FLOOD ZONE DESIGNATION: THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO.29095C04176, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.



**PROJECT DESCRIPTION:**  
THE SITE IS AN EXISTING CHICK-FIL-A RESTAURANT AND IS BEING DISTURBED TO MODIFY THE PARKING LOT AND DRIVE THRU. AREA OF DISTURBANCE IS APPROXIMATELY 0.50 ACRES.

**SCHEDULE OF CONSTRUCTION ACTIVITY:**  
THE CONTRACTOR SHALL IMPLEMENT ALL EROSION CONTROL MEASURES PRIOR TO OTHER CONSTRUCTION ACTIVITY. ALL EROSION CONTROL MEASURES MUST REMAIN FUNCTIONAL UNTIL THE SITE HAS BEEN STABILIZED UNLESS OTHERWISE STATED ON THE PLAN. SEE SEQUENCE OF CONSTRUCTION ACTIVITIES. SHT. C-310 AND SWPPP REPORT.

**EROSION CONTROL NOTES:**  
DIVERSION CHANNELS AND PERIMETER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE STABILIZED. BMP'S SHOULD BE CLEANED OUT ONCE CAPACITY HAS BEEN REDUCED BY 40 %.

EROSION CONTROL BLANKETS WITH MATTING WILL BE USED ON DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES GREATER THAN 6 % GRADE.

**CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL.**

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF JOPLIN, MO.

OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.

CONTRACTOR IS RESPONSIBLE TO PICK UP/CLEAN UP ANY LITTER, CONSTRUCTION DEBRIS AND/OR CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER PRIOR TO ANTICIPATED STORM EVENTS OR WIND EVENTS AS FORECASTED BY LOCAL WEATHER.

DUST SUPPRESSANTS ARE REQUIRED AS NEEDED.

OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD NOTED ON THE PLAN

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. PROVIDED WILL BE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATED OF INSPECTION AND CORRECTIVE MEASURES TAKEN.

SILT FENCES ARE TO BE INSTALLED IN FRONT OF STORM INLETS AND FILL AREAS BEFORE STARTING CONSTRUCTION PER MANUFACTURERS RECOMMENDATIONS.

SILT FENCES ARE TO BE CONSTRUCTED ON THE OUTSIDE OF ALL STOCK PILES.

ALL EROSION CONTROL MEASURES TO BE MAINTAINED BY CONTRACTOR UNTIL PROJECT COMPLETION AND THEN REMOVED.

SEDIMENT TO BE REMOVED FROM SILT FENCE AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

ANY DE-WATERING ACTIVITY SHALL INCLUDE A DIRT BAG OR DANDY BAG AT THE END OF PUMPING DISCHARGE LINE PRIOR TO ENTERING INTO THE STORM SEWER.

EXISTING MAX. SLOPE TO OUTFALL = 25.0%  
EXISTING MIN. SLOPE TO OUTFALL = 1.0%

POST-CONSTRUCTION MAX. SLOPE TO OUTFALL = 33.3%  
POST-CONSTRUCTION MIN. SLOPE TO OUTFALL = 1.0%

PRE CONSTRUCTION RUNOFF COEFFICIENT = 0.81  
POST CONSTRUCTION RUNOFF COEFFICIENT = 0.84

PRE CONSTRUCTION IMPERVIOUS AREA = 49,337 S.F. (79.15%)  
POST CONSTRUCTION IMPERVIOUS AREA = 52,081 S.F. (83.55%)

RECEIVING WATER:

EXISTING TOPOGRAPHY: CURRENTLY THE SITE IS A CHICK-FIL-A RESTAURANT INSPECT OUTFALLS AND FIX SITE BASED ON THE INSPECTIONS. REVISE SWPPP IF APPROPRIATE.

THERE IS NO INDUSTRIAL/NON-CONSTRUCTION DISCHARGE ASSOCIATED WITH THIS PROJECT.

TEMPORARY SEEDING IS REQUIRED WHEN GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS, AND ON STOCKPILES. PERMANENT SEEDING IS REQUIRED WHEN GRADING OPERATIONS ARE COMPLETED AND/OR CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. SEED AREAS THAT SHOW SIGNS OF EROSION.

OFFSITE ACCUMULATION OF SEDIMENT WILL BE REMOVED, YET IF A STREAM IS REACHED, CONTACT WATER POLLUTION CONTROL FIRST.

NO TOXIC OR HAZARDOUS WASTES SHALL BE DISPOSED INTO STORM DRAINS, SEPTIC TANKS, OR BY BURYING, BURNING, OR MIXING WASTES. IF ANY ITEMS DESCRIBED NEED DISPOSED OF, CONTRACTOR SHALL CONTACT CITY OF JOPLIN TO DETERMINE PREFERRED LOCAL RECYCLE LOCATION.

CONTRACTOR TO KEEP BRICKS, HARDENED CONCRETE, AND SOIL WASTE FREE FROM CONTAMINATION WHICH MAY LEACH CONSTITUENTS TO WATERS OF THE STATE.

ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

OPEN BURNING IS NOT ALLOWABLE.

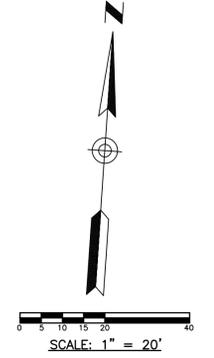
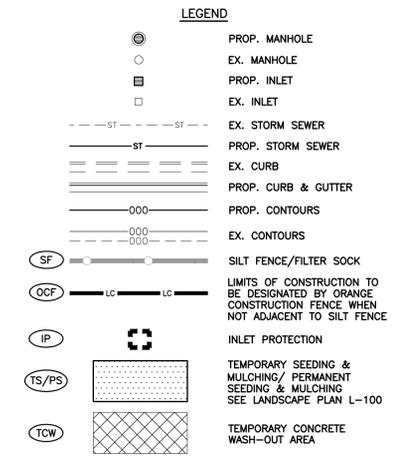
CONTRACTOR TO MAINTAIN A RAIN GAUGE ON SITE OR NEARBY REFERENCE FOR RECORDS. INSPECTORS OF THE SITE MUST HAVE COMPLETED THE WFC FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) COURSE.

REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES UPON FINAL STABILIZATION & REMOVAL OF SEDIMENT IN THE DRAIN INLET FILTRATION DEVICES ACCORDING TO STATE AND LOCAL REGULATIONS.

**SEQUENCE OF CONSTRUCTION ACTIVITY**

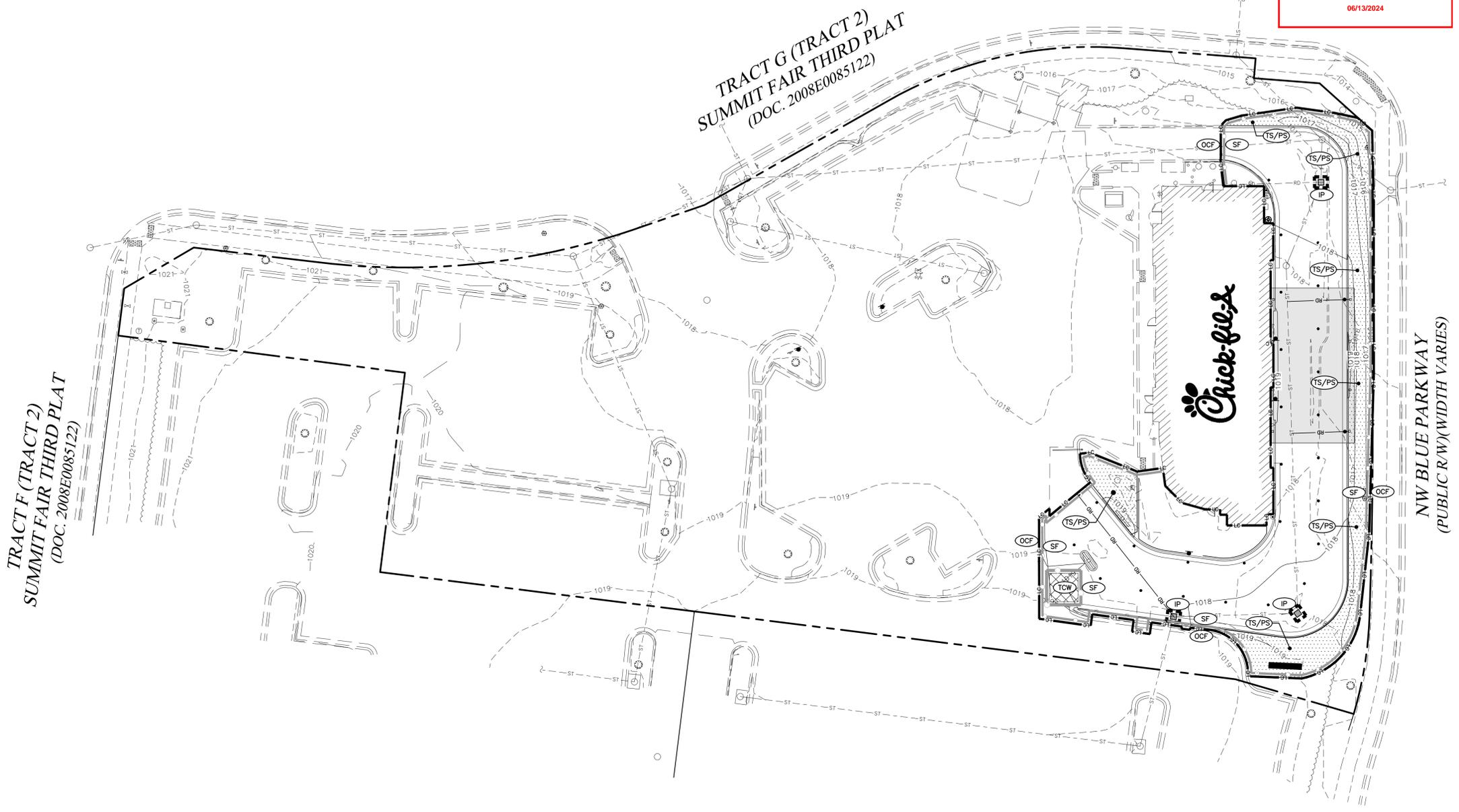
THE CONTRACTOR SHALL IMPLEMENT ALL OF THE FOLLOWING EROSION CONTROL MEASURES, IN THE ORDER STATED, PRIOR TO OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL AND STORM WATER POLLUTION PREVENTION ITEMS. ALL EROSION CONTROL MEASURES MUST REMAIN FUNCTIONAL UNTIL THE SITE HAS BEEN STABILIZED.

- BEFORE CONSTRUCTION, EVALUATE, MARK, AND PROTECT IMPORTANT TREES
- CLEAR AREAS FOR CONSTRUCTION ENTRANCE AND SILT FENCE.
- INSTALL CONSTRUCTION ENTRANCE.
- POST SWPPP PLANS ONSITE.
- INSTALL EROSION CONTROL FENCES AND OTHER PERIMETER CONTROLS AROUND CONSTRUCTION AREA BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- INSTALL PROTECTION MEASURES AROUND EXISTING INLETS.
- BEGIN DEMOLITION AND EARTHWORK.
- COMPLETE THE CUT AND FILLS ON THE SITE. INSTALL CHECK DAMS OR STABILIZE THE SLOPES WITH EROSION CONTROL BLANKETS AS NEEDED.
- INSTALL STAGING AREAS, MATERIAL STORAGE AREAS, FUEL STATIONS, AND CONCRETE WASHOUT.
- INSTALL INLET FILTER PROTECTION AS INLETS ARE INSTALLED.
- CONTINUE SITE EXCAVATING, BACKFILLING, AND GRADING ACTIVITIES. ANY AREA LEFT DORMANT FOR MORE THAN 15 DAYS MUST BE TEMPORARILY SEEDED.
- FINISH MASS EARTHWORK.
- COMPLETE ASPHALT PAVING.
- FINAL GRADE AND FINISH.
- COMPLETE FINAL SEEDING AND LANDSCAPING AND STABILIZE ALL DISTURBED AREAS.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL PRACTICES UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- REMOVE SEDIMENT FROM STORMWATER MANAGEMENT SYSTEM, SEED AND MULCH SITE AS NEEDED.



LIMITS OF DISTURBANCE = 0.27 AC.

**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024



CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.



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LEE'S SUMMIT, MO 64086

**FSU# 02859**

NO.	DATE	DESCRIPTION
1	3/14/2024	ISSUED FOR BID
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SHEET  
**Permit** STORMWATER POLLUTION PREVENTION PLAN (SWPPP)  
SHEET NUMBER

**C-310**

**FLEXSTORM<sup>®</sup> CATCH-IT<sup>®</sup> LITE**

**Installation Instructions:**

1. Remove grate from the drainage structure
2. Clean stone and dirt from ledge (lip) of drainage structure
3. Drop the FLEXSTORM inlet filter through the clear opening such that the hangers rest firmly on the lip of the structure.
4. Replace the grate and confirm it is not elevated more than 1/8", the thickness of the steel hangers.

**Meets ASTM D8057 standards**

**FLEXSTORM FX FABRIC SPECS**

PROPERTY	TEST METHOD	ENGLISH	METRIC
Mechanical			
TENSILE STRENGTH	ASTM D4532	350 x 225 Lbs	1557 x 1001 N
ELONGATION	ASTM D4532	20% ± 13%	20% ± 13%
CUR PUNCTURE	ASTM D2041	1000 Lbs	4448 N
TRAPEZOIDAL TEAR	ASTM D4533	110 x 75 Lbs	483 x 334 N
INDURANCE			
UV RESISTANCE	ASTM D4355	90%	90%
WATER RESISTANCE			
WATER RETAINED AT 300 HRS			
PERMEABILITY			
APPEARANT OPENING SIZE	ASTM D4751	20 US STD SIEVE	850 mic
PERCENT OPEN AREA	ISO 9225 M407	37%	37%
PERMEABILITY	ASTM D4891	1.5 Sec <sup>2</sup>	1.5 Sec <sup>2</sup>
WATER FLOW RATE	ASTM D4491	200 gal./min/ft <sup>2</sup>	8145 l/min/m <sup>2</sup>

**Product Features**

- Rigid frame and removable geosynthetic bag
- Sized to meet treatment flow rate.
- Bag maintains shape to be extracted when completely filled with sediment
- Rigid frame capable of supporting full load of sediment without deforming.
- Does not interfere or elevate grate by more than 1/8"
- Bypass flow exceeds design flow of drainage location
- Filter bag achieves +80% gross removal efficiency per ASTM D7351.

**WOVENS GEOTEXTILE FILTER BAG:**  
200 GPM/SQFT FLOW RATE  
82% FILTRATION EFFICIENCY PER ASTM D 7351

**ASTM D8057**

**FILTER SOCK DETAIL (NOT TO SCALE)**

**FILTER SOCK ON PAVEMENT DETAIL (NOT TO SCALE)**

**NOTES:**

1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

**MAINTENANCE:**

6. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
7. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE FILTER.
8. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
9. REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

**Maximum Slope Length Above Filter Sock and Recommended Diameter**

Slope	Ratio (H:V)	8"	12"	18"	24"
0% - 2%	10% - 20%	125	250	300	350
10% - 20%	50:1 - 10:1	100	125	200	250
2% - 10%	10:1 - 5:1	75	100	150	200
20% - 33%	5:1 - 2:1	50	75	100	
>50%	>2:1	25	50	75	

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**Development Services Department**  
Lee's Summit, Missouri  
06/13/2024

**TEMPORARY SEEDING**

TEMPORARY SEEDING SPECIES SELECTION

SEEDING DATES	SPECIES	LB/1000 FT. <sup>2</sup>	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
AUGUST 16 TO NOVEMBER 1	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
NOVEMBER 1 TO SPRING SEEDING	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
NOVEMBER 1 TO SPRING SEEDING	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
NOVEMBER 1 TO SPRING SEEDING	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

**TEMP. CONCRETE WASHOUT FACILITY (BELOW GRADE) N.T.S.**

**SECTION A-A N.T.S.**

**CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT) N.T.S.**

1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
2. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AS SHOWN ON THE DETAIL WITH A MINIMUM LENGTH AND MINIMUM WIDTH OF 10'.
3. LATH AND FLAGGING SHALL BE COMMERCIAL TYPE.
4. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
5. A SIGN SHALL BE INSTALLED ADJACENT TO WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
6. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT PROCEDURES.
7. WASHOUT OF CONCRETE TRUCKS SHALL BE PERFORMED IN DESIGNATED AREAS ONLY.
8. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASHOUT.
9. CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OR PROPERLY DISPOSED OF OFFSITE.
10. CONCRETE WASTES SHALL BE ALLOWED TO HARDEN THEN BROKEN UP, REMOVED, AND PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATION ON A REGULAR BASIS.
11. WHEN TEMPORARY WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.

**SILT FENCE**

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-IN. CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-IN. POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF THE 2-BY-4-IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40- SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ON SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWN SLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
10. MAINTENANCE--SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED; 2) ACCUMULATED SEDIMENT SHALL BE REMOVED; OR 3) OTHER PRACTICES SHALL BE INSTALLED.

**CRITERIA FOR SILT FENCE MATERIALS**

1. FENCE POSTS-- THE LENGTH SHALL BE A MIN. OF 18 IN. LONG. WOOD POSTS WILL BE 2-BY-2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
2. SILT FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 PSI MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./FT <sup>2</sup> MAXIMUM	ASTM D 3786
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM-G-26

**JOINING SECTIONS OF SILT FENCE DETAIL**

**SILT FENCE DETAIL**

**SILT FENCE SECTION**

**INLET PROTECTION NOTE**

1. THE TYPICAL INLET SILT FENCE DETAIL SHALL BE IN PLACE UNTIL PAVEMENT IS ESTABLISHED.
2. ONCE PAVEMENT HAS BEEN INSTALLED, THE INLETS WITH THE PAVING LIMITS MUST BE FITTED WITH THE "SILT SOCK" SEDIMENT CONTROL DEVICE AS MANUFACTURED BY ACI ENVIRONMENTAL CONTROL, INC., OR APPROVED EQUAL.
3. SILT SOCK MUST REMAIN IN PLACE UNTIL THE SITE HAS BEEN SEEDDED & STABILIZED.

**TYPICAL INLET SILT FENCE DETAIL**

**INLET PROTECTION DETAIL**

1. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION-SITE.
2. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDDED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
3. THE SEEDBED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
4. SOIL AMENDMENTS--APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
5. SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

**MULCHING TEMPORARY SEEDING**

1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
2. MATERIALS:
  - STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL--GRAIN APPLIED AT 2 TONS/AC. OR 90 LB. / 1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.
  - HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. / AC. OR 46 LB. /1,000 SQ. FT.
  - OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS / AC.
3. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:
  - MECHANICAL--A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICAL ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY BE LEFT LONGER THAN 6 IN.
  - MULCH NETTINGS--NETTINGS SHALL BE USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MADE BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
  - ASPHALT EMULSION--ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT THE RATE OF 160 GAL. / AC.
  - SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA-TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
  - WOOD-CELLULOSE FIBRE--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. /AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. / 100 GAL.

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**STATE OF MISSOURI**  
ARV R. ROUSE  
NUMBER  
PE-20072584  
6-7-24

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**FSU# 02859**

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
1	3/14/2024	ISSUED FOR BID

GBC PROJECT # 43215R

PREPARED FOR Permit

DATE 8/23/23

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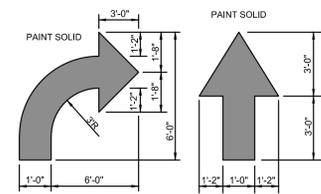
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**SWPPP DETAILS**

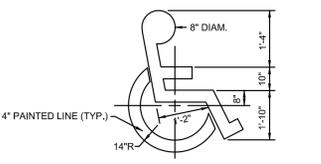
**Permit**

SHEET NUMBER

**C-320**



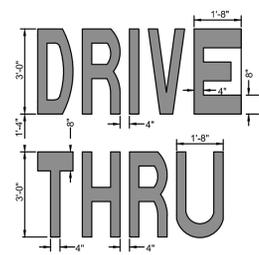
**1A DIRECTIONAL ARROW**  
NOT TO SCALE



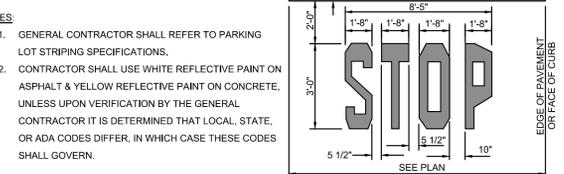
**1B ACCESSIBILITY SYMBOL**  
NOT TO SCALE

- NOTES:**
- GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS (SEE DETAIL 5/C-400).
  - CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE, UNLESS UPON VERIFICATION BY THE GENERAL CONTRACTOR IT IS DETERMINED THAT LOCAL, STATE, OR ADA CODES DIFFER, IN WHICH CASE THESE CODES SHALL GOVERN.

**1 PAVEMENT MARKINGS - 1**  
NOT TO SCALE



**2A DRIVE-THRU**  
NOT TO SCALE

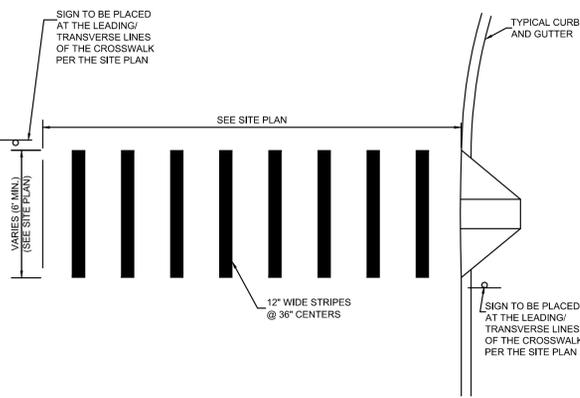


**2B STOP BAR**  
NOT TO SCALE

- NOTES:**
- GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS.
  - CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE, UNLESS UPON VERIFICATION BY THE GENERAL CONTRACTOR IT IS DETERMINED THAT LOCAL, STATE, OR ADA CODES DIFFER, IN WHICH CASE THESE CODES SHALL GOVERN.

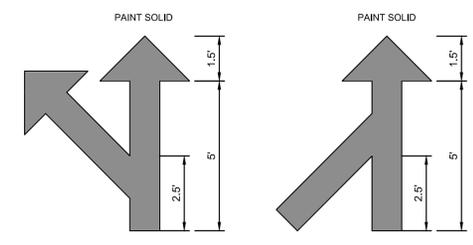
**NOTE:** IF STOP SIGN IS PROPOSED, "STOP" LETTERING GRAPHIC IS NOT REQUIRED.

**2 PAVEMENT MARKINGS - 2**  
NOT TO SCALE



- NOTES:**
- GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS (SEE DETAIL 5/C-400).
  - CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT AND YELLOW REFLECTIVE PAINT ON CONCRETE.

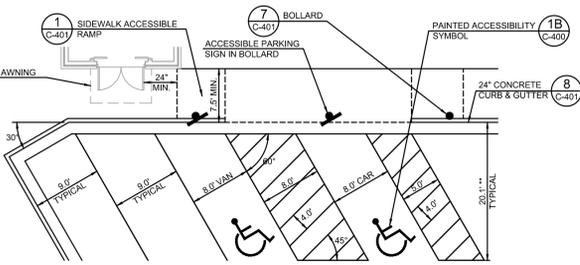
**3 CROSSWALK MARKINGS**  
NOT TO SCALE



**MULTI-LANE SPLIT**      **MULTI-LANE MERGE**

- NOTES:**
- GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS (SEE DETAIL 5/C-400).
  - CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE.

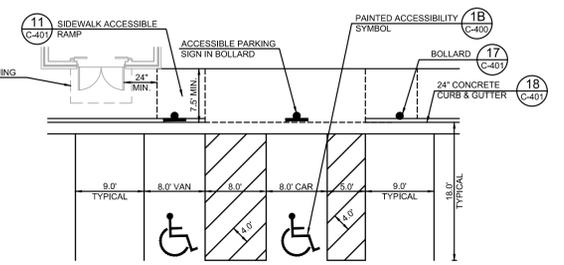
**4 MULTI-LANE DIRECTIONAL GRAPHICS**  
NOT TO SCALE



**60° PARKING**  
\*\* 60° PARKING STALL CAN BE REDUCED TO 18" MINIMUM IF SITE CONDITIONS REQUIRE IT.

- NOTES:**
- ACCESSIBLE PARKING AND ACCESSIBLE AISLES SHALL NOT EXCEED 1.5% IN SLOPE IN ANY DIRECTION. IF ONLY ONE ACCESS AISLE IS INSTALLED, IT IS TO BE A VAN SIZE.
  - PARKING STALL DIMENSIONING SHALL BE IN ACCORDANCE WITH APPLICABLE GOVERNING AUTHORITY'S AND ADA STANDARDS. SEE SITE PLAN FOR COMPLETE STRIPING LAYOUT.
  - GENERAL CONTRACTOR SHALL REFER TO CHICK-FIL-A PARKING LOT STRIPING SPECIFICATIONS, THIS DETAIL.
  - CONTRACTOR SHALL USE 4" WIDE WHITE REFLECTIVE PAINT FOR STRIPING ON ASPHALT PARKING LOTS.
  - CONTRACTOR SHALL USE 4" WIDE YELLOW REFLECTIVE PAINT FOR STRIPING ON CONCRETE PARKING LOTS.
  - ACCESSIBLE PARKING AND ACCESSIBLE AISLE STRIPING COLOR SHALL BE IN ACCORDANCE WITH APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
  - NO WHEEL STOPS TO BE INSTALLED WHEN PARKING IS ADJACENT TO SIDEWALK.
  - ADA SIGNS IN BOLLARDS AND BOLLARDS SHALL BE INSTALLED WHEN PARKING IS ADJACENT TO FLUSH CURB OR A RAMP.
  - ALL DIMENSIONS ARE TO CENTER OF STRIPE UNLESS OTHERWISE NOTED.
  - STRIPING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

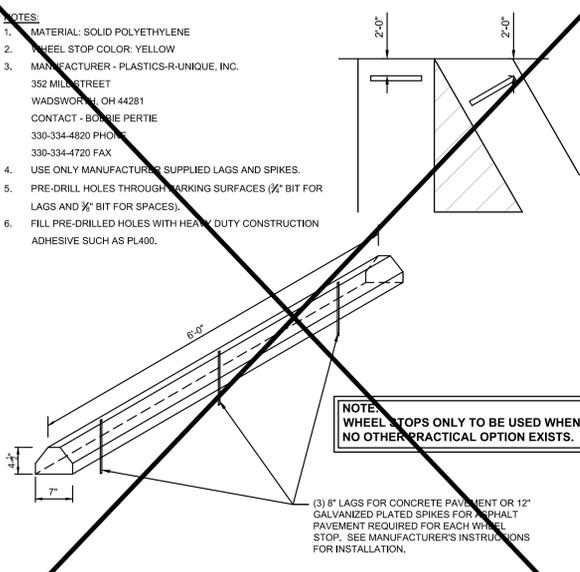
**5 PARKING STALL LAYOUT AND STRIPING**  
NOT TO SCALE



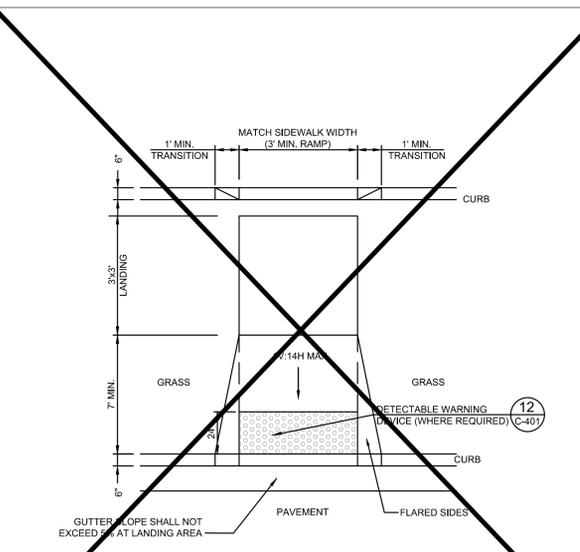
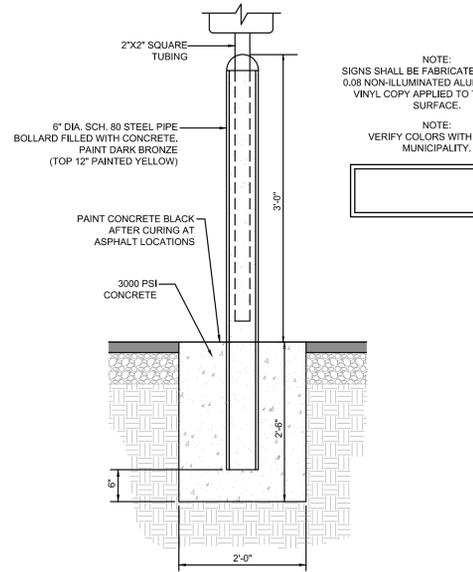
**90° PARKING**

- PARKING LOT STRIPING SPECIFICATIONS:**
- STANDARDS:**
- ALWAYS FOLLOW ALL APPLICABLE GOVERNING AUTHORITY'S STANDARDS.
  - SURFACES SHOULD BE CLEAN, DRY, AND FREE FROM LOOSE OR PEELING PAINT. REMOVE ALL OIL, DUST, GREASE, DIRT, AND OTHER FOREIGN MATERIAL TO ENSURE ADEQUATE ADHESION. DO NOT APPLY WHEN AIR OR SURFACE TEMPERATURES ARE BELOW 40°F.
  - APPLY SHERWIN-WILLIAMS SETFAST PREMIUM ALKYD ZONE MARKING PAINT A300 WHITE OR A303 YELLOW USING EITHER AIRLESS OR CONVENTIONAL LINE STRIPING EQUIPMENT. USE THE FOLLOWING SETTINGS AS A GUIDE-ACTUAL SETTINGS DEPEND ON ATMOSPHERIC CONDITIONS AT THE TIME OF APPLICATION:
- | AIRLESS   | CONVENTIONAL   |
|-----------|--|
| SUN       | BLINKS 21 (BLEEDER) OR EQUIVALENT                    |
| PRESSURE  | #68  |
| HOSE      | INTERNAL MIX, #709                                   |
| TIP       | 45-80 PSI  |
| FILTER    | 40-70 PSI  |
| REDUCTION | ONLY IF NECESSARY, UP TO 1PT./GAL. VM&P NAPHTHA R1K3 |
- OTHER NOTES:**
- SHERWIN WILLIAMS, H4C SHARK GRIP SLIP RESISTANT ADDITIVE TO BE MEASURED AND ADDED TO ALL PAINT PER MANUFACTURER'S WRITTEN SPECIFICATIONS. MIX THOROUGHLY PER MANUFACTURER'S RECOMMENDATIONS SO THAT NO CLUMPING IS APPARENT AND UNTIL EVEN DISTRIBUTION IS ACHIEVED. MAINTAIN EVEN DISTRIBUTION OF ADDITIVE IN PAINT THROUGHOUT THE APPLICATION PROCESS.
  - MIX PAINT THOROUGHLY BY BOXING, STIRRING, OR POWER AGITATION BEFORE USE. APPLY AT 15 MILS WET TO ACHIEVE A SPREAD RATE OF 400-500 LINEAL FEET OF STANDARD 4" STRIPE PER GALLON. APPLIED AT THIS RATE AT 70 DEGREES F AND 50% RELATIVE HUMIDITY. PAINT WILL DRY WITH NO TRAFFIC PICKUP AFTER 20 MINUTES.
  - GENERAL CONTRACTOR TO RE-STRIP THE LOT 45 DAYS AFTER OPENING.

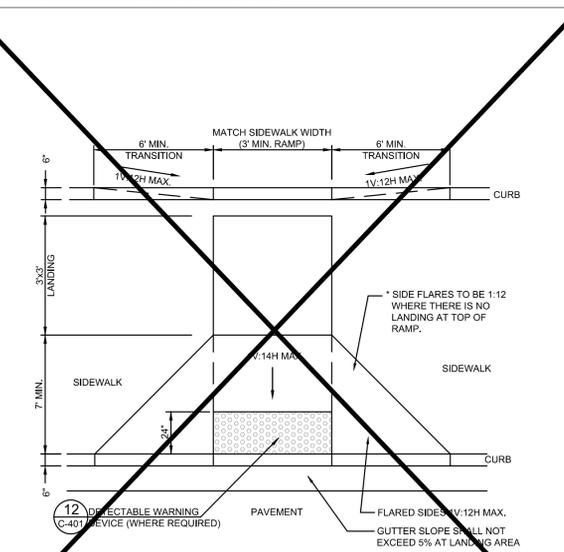
**6 SOLID PLASTIC WHEEL STOP**  
NOT TO SCALE



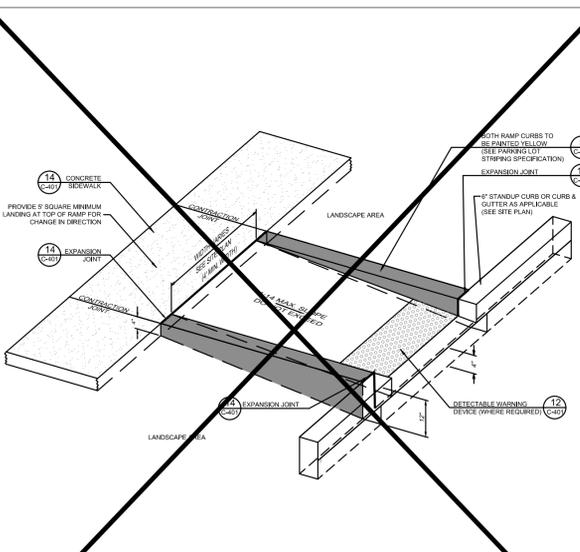
**7 BOLLARD MOUNTED SIGN**  
NOT TO SCALE



**8 CURB RAMP w/ SHORT FLARED SIDES**  
NOT TO SCALE



**9 CURB RAMP w/ FLARED SIDES**  
NOT TO SCALE



**10 RETURNED CURB RAMP**  
NOT TO SCALE

**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024



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REVISION SCHEDULE		
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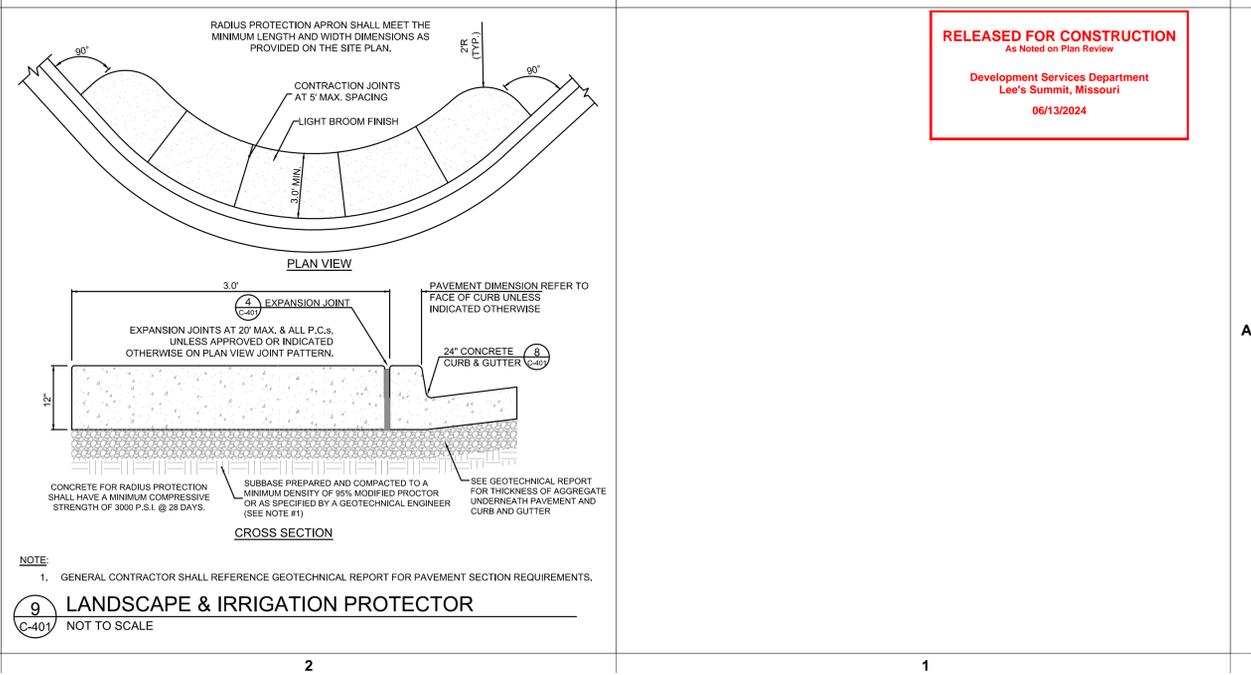
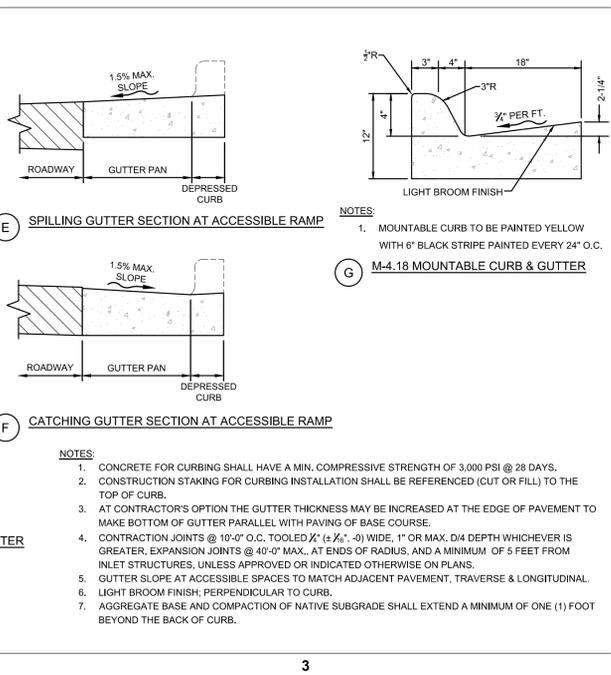
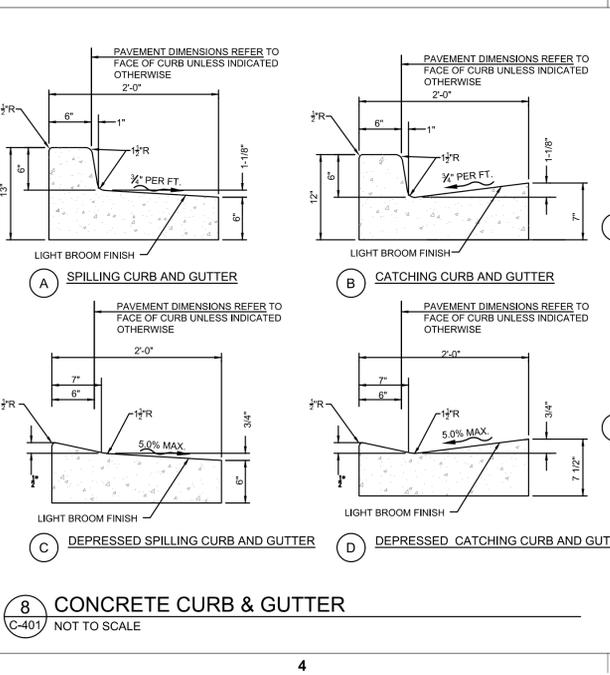
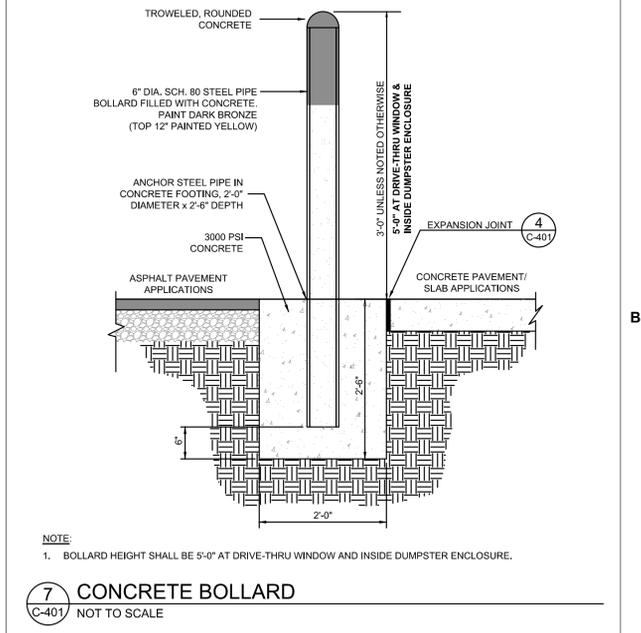
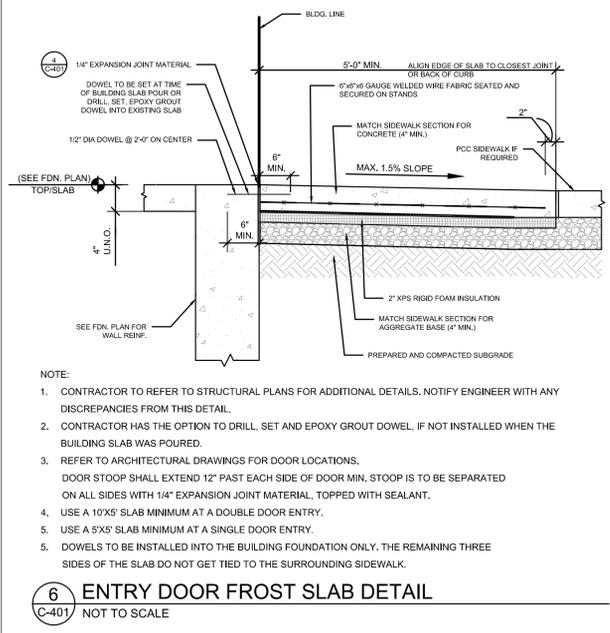
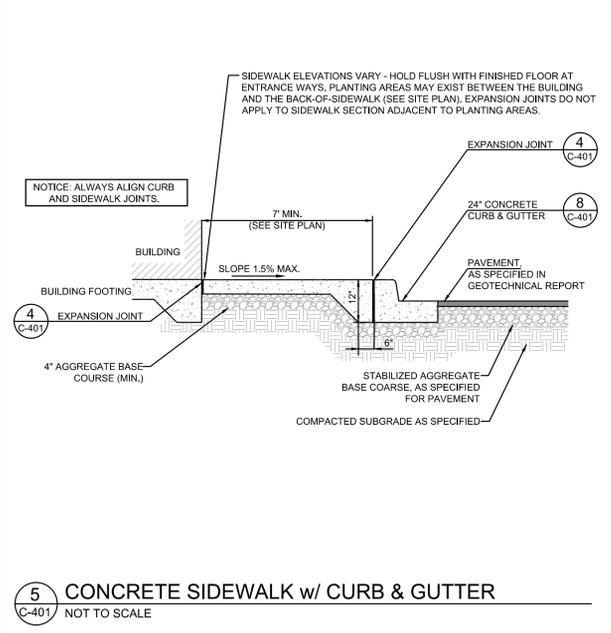
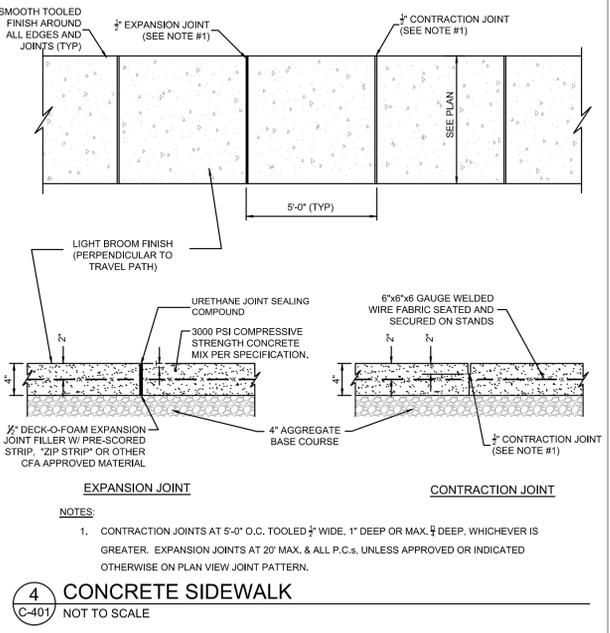
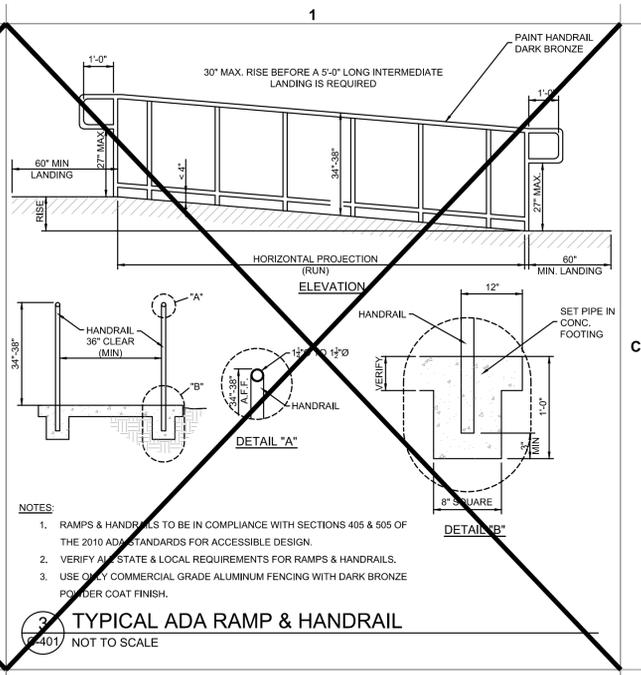
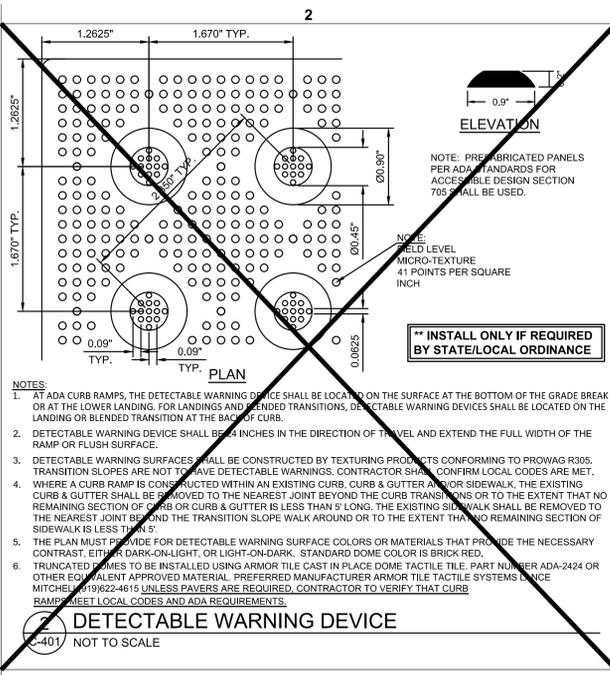
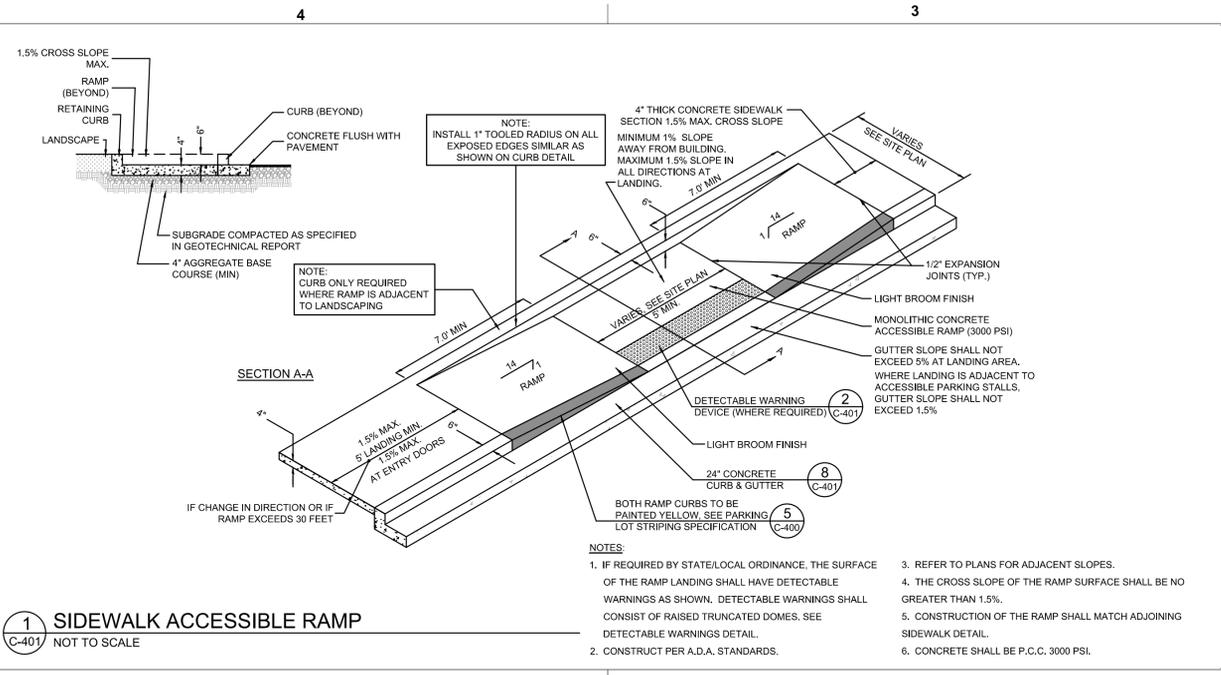
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SHEET  
**CHICK-FIL-A SITE DETAILS**

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SHEET NUMBER

**C-400**



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As Noted on Plan Review  
Development Services Department  
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06/13/2024



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**CHICK-FIL-A SITE DETAILS**

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SHEET NUMBER

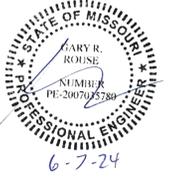
**C-401**



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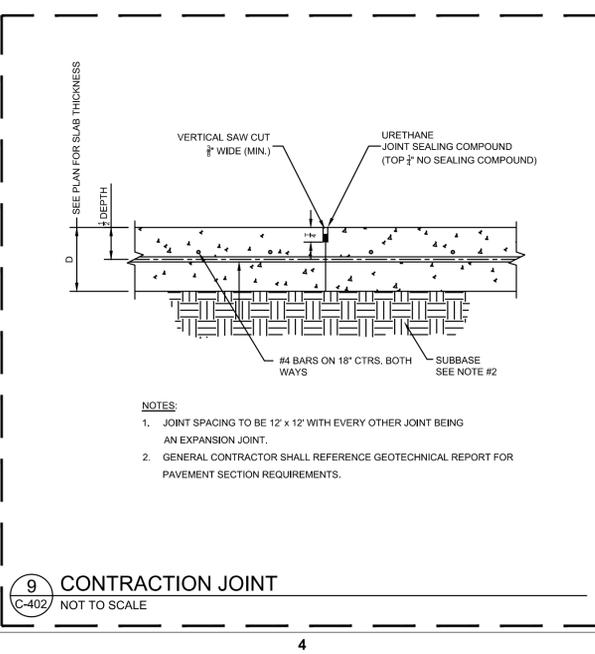
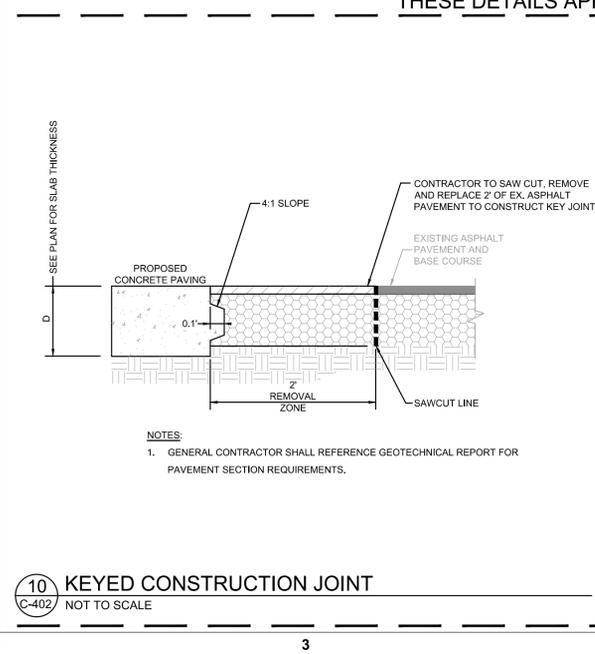
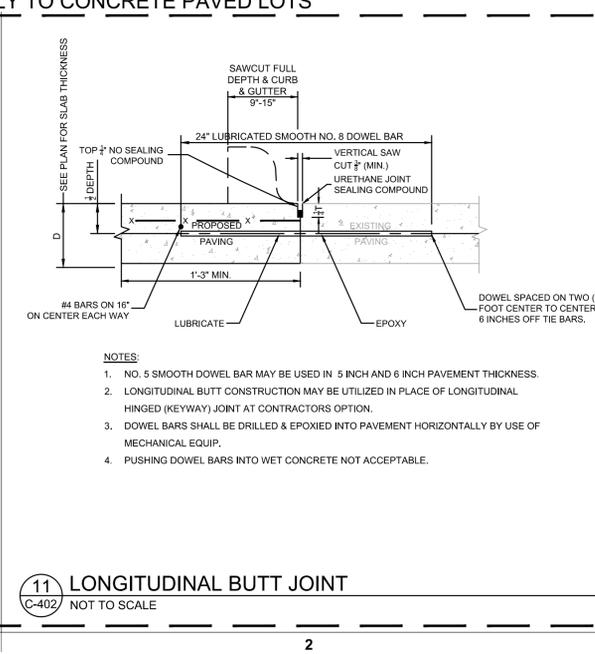
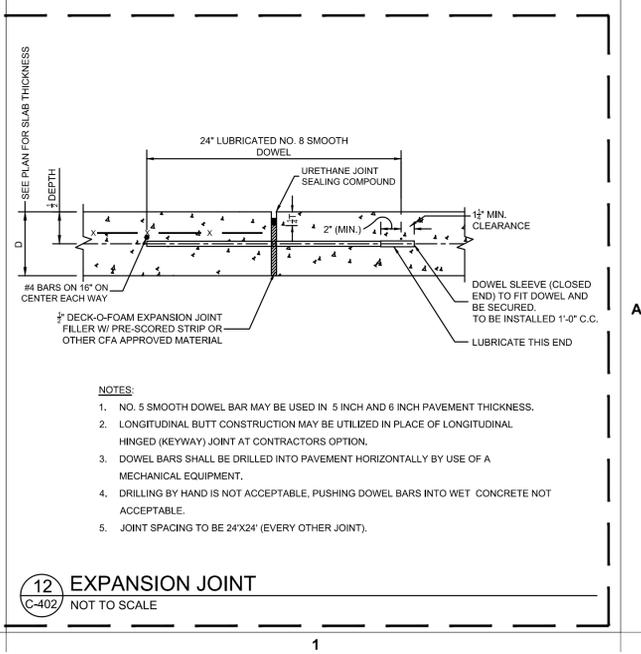
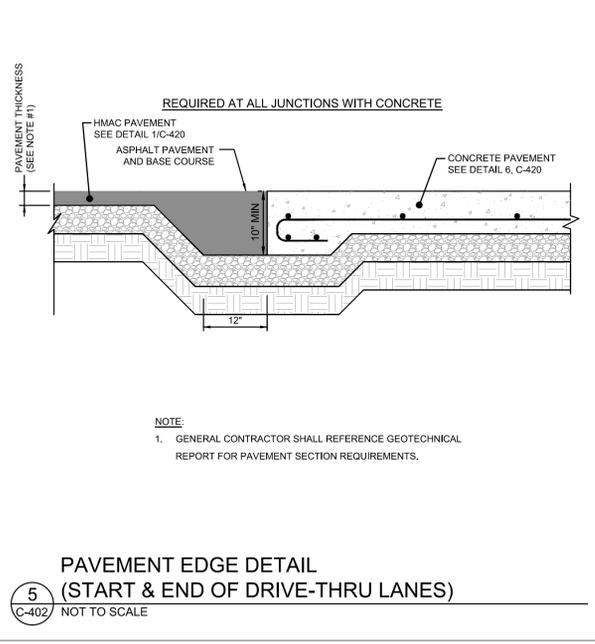
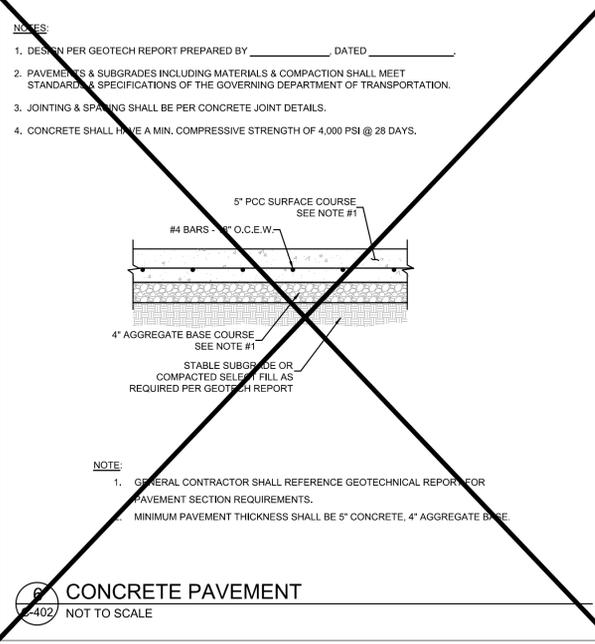
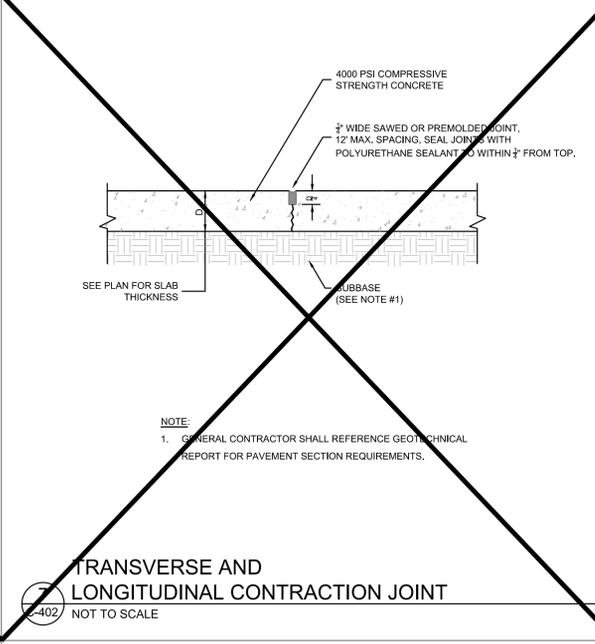
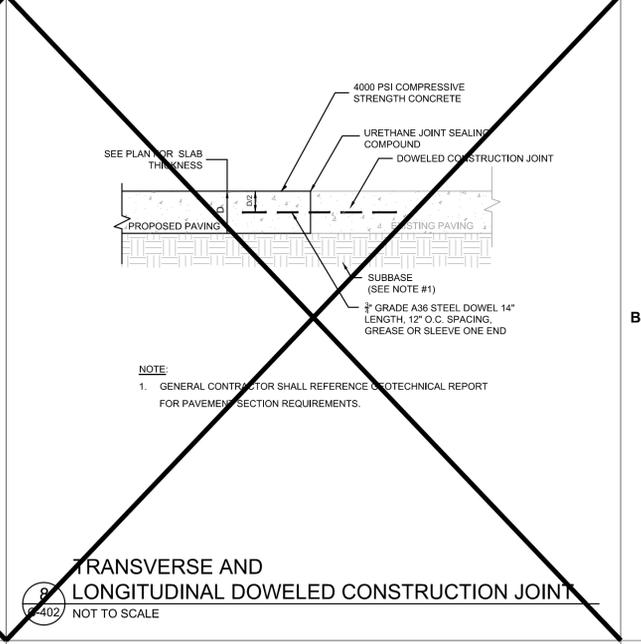
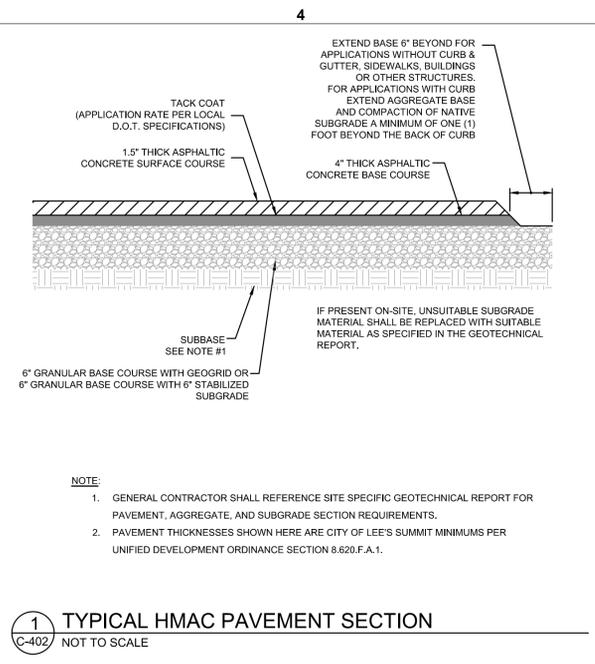
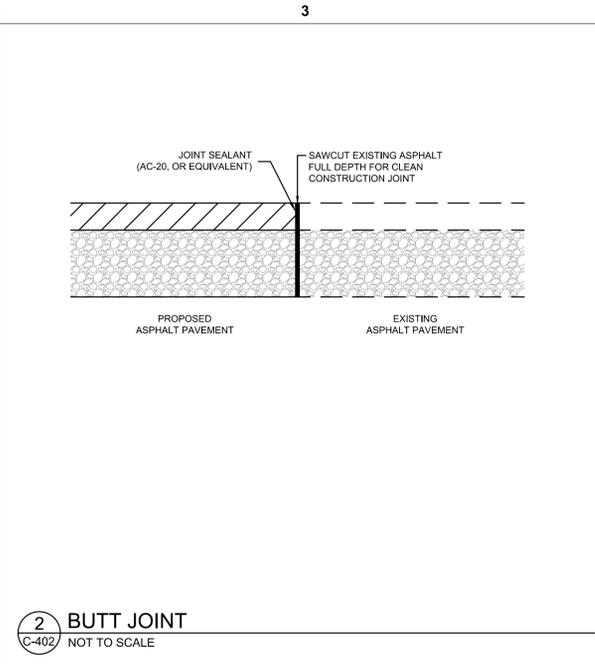
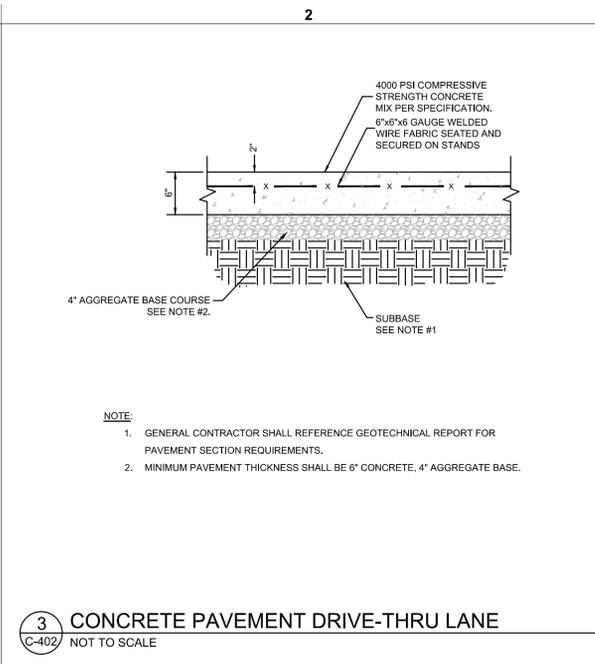
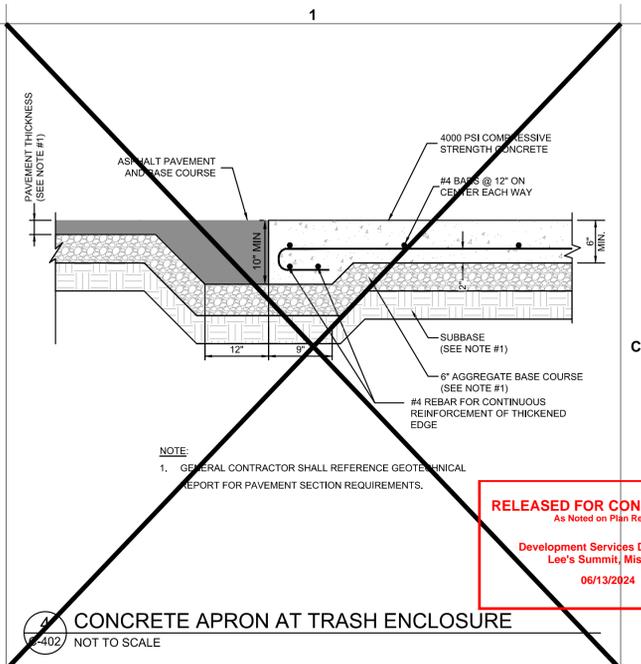
REVISION SCHEDULE		DESCRIPTION
NO.	DATE	
1	3/14/2024	ISSUED FOR BID

GBC PROJECT # 43215R  
 PRINTED FOR Permit  
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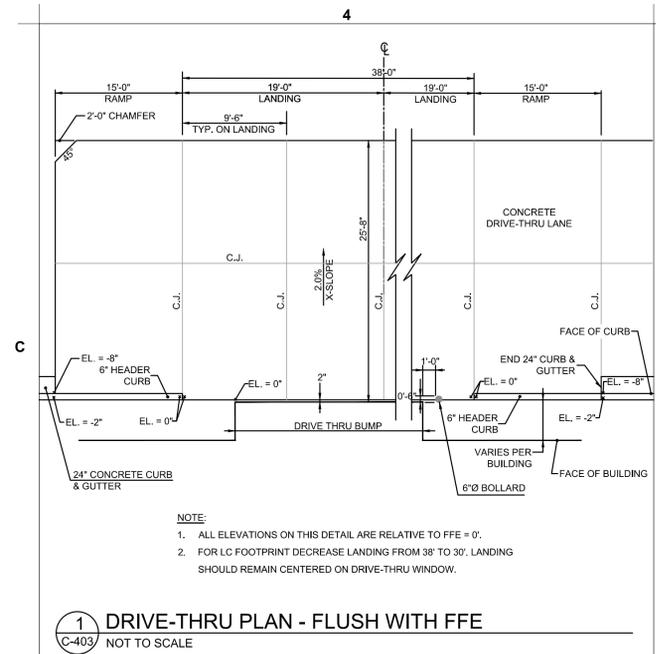
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SHEET CHICK-FIL-A SITE DETAILS

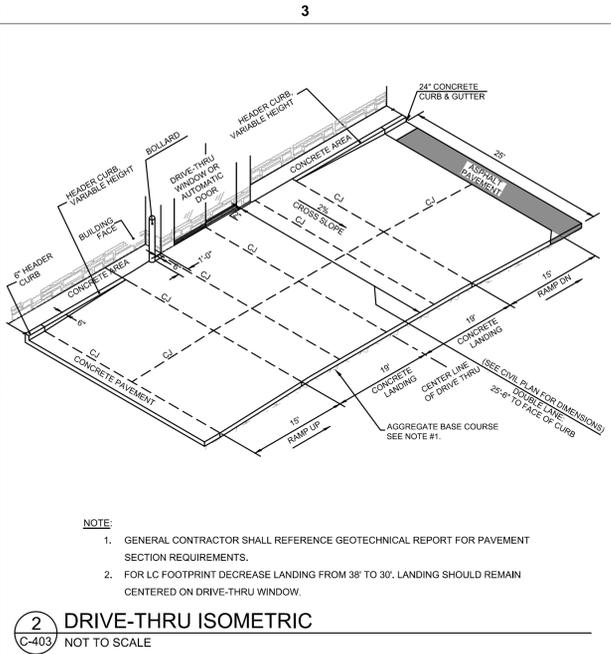
Permit SHEET NUMBER C-402



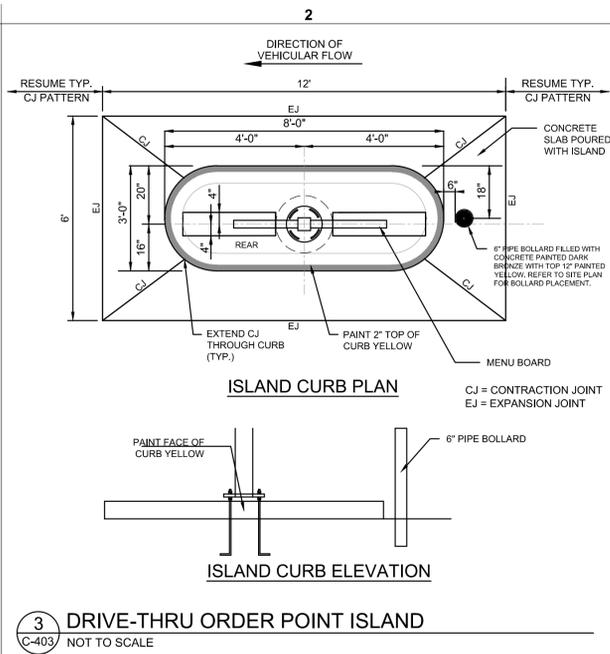
THESE DETAILS APPLY TO CONCRETE PAVED LOTS



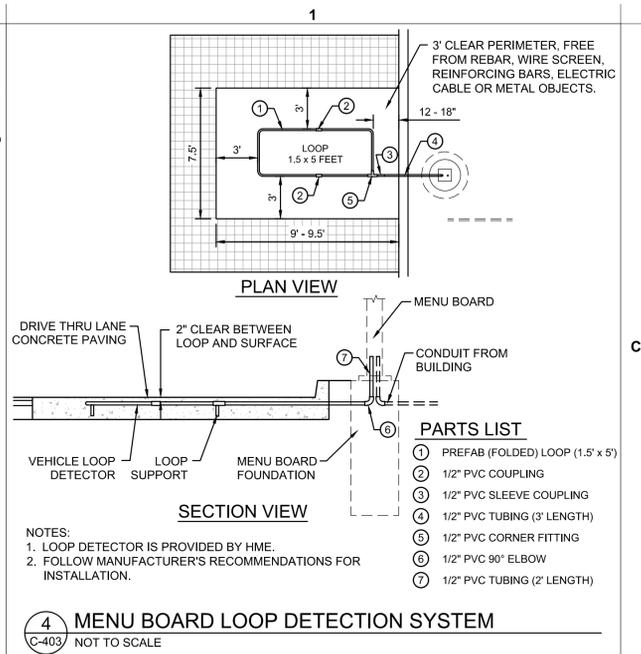
**1 DRIVE-THRU PLAN - FLUSH WITH FFE**  
C-403 NOT TO SCALE



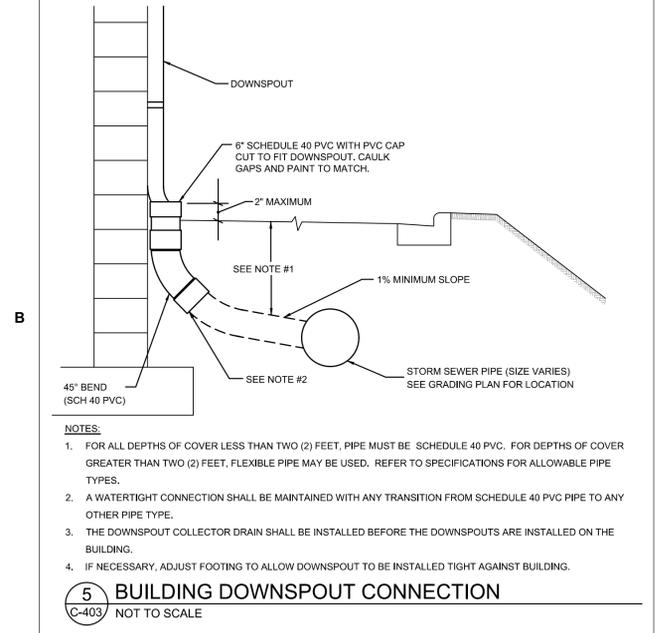
**2 DRIVE-THRU ISOMETRIC**  
C-403 NOT TO SCALE



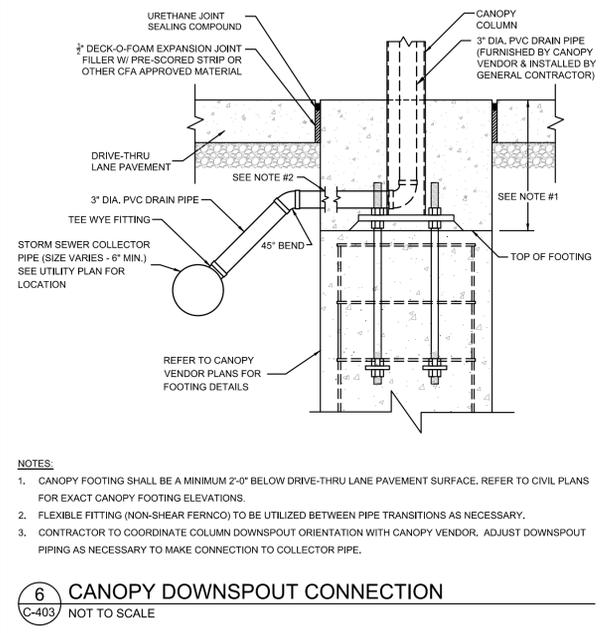
**3 DRIVE-THRU ORDER POINT ISLAND**  
C-403 NOT TO SCALE



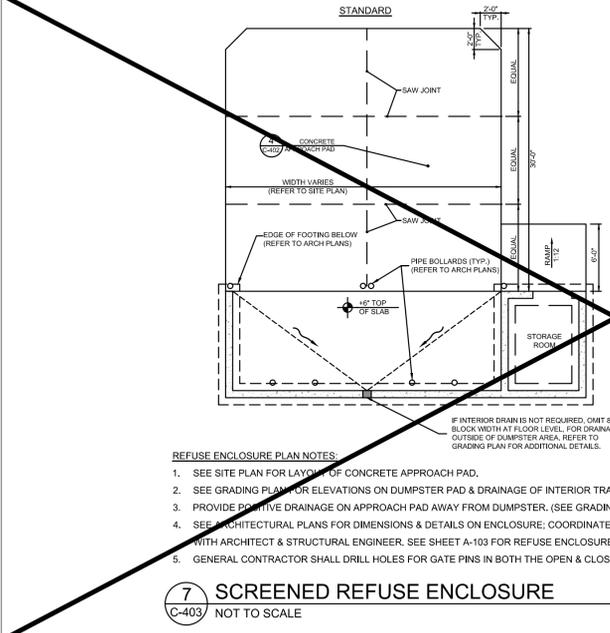
**4 MENU BOARD LOOP DETECTION SYSTEM**  
C-403 NOT TO SCALE



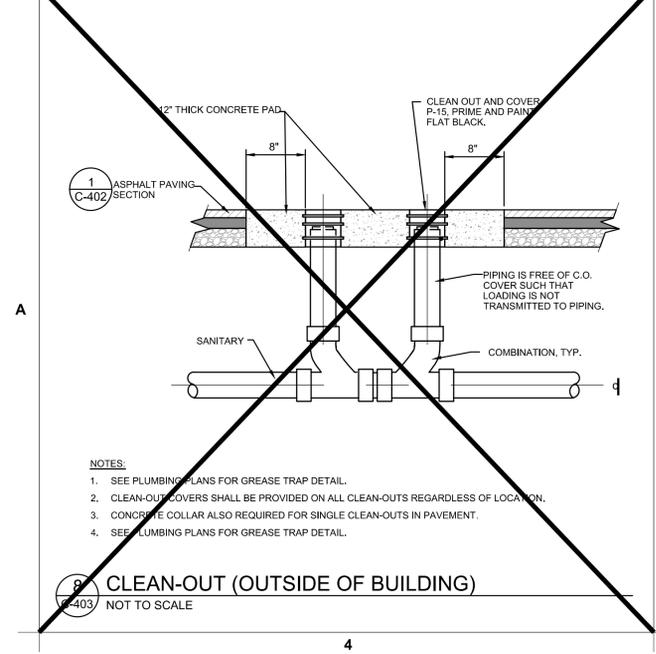
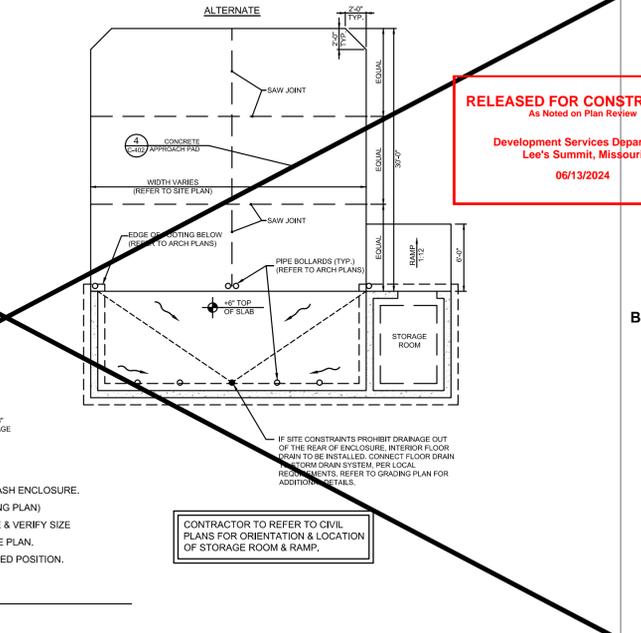
**5 BUILDING DOWNSPOUT CONNECTION**  
C-403 NOT TO SCALE



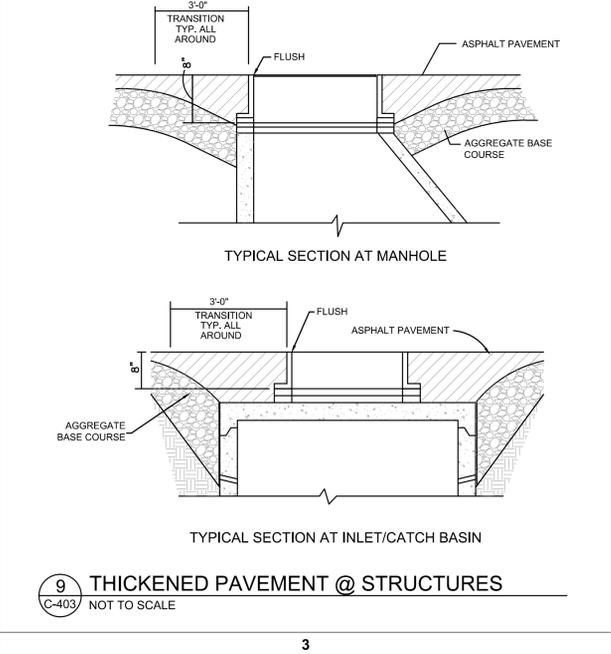
**6 CANOPY DOWNSPOUT CONNECTION**  
C-403 NOT TO SCALE



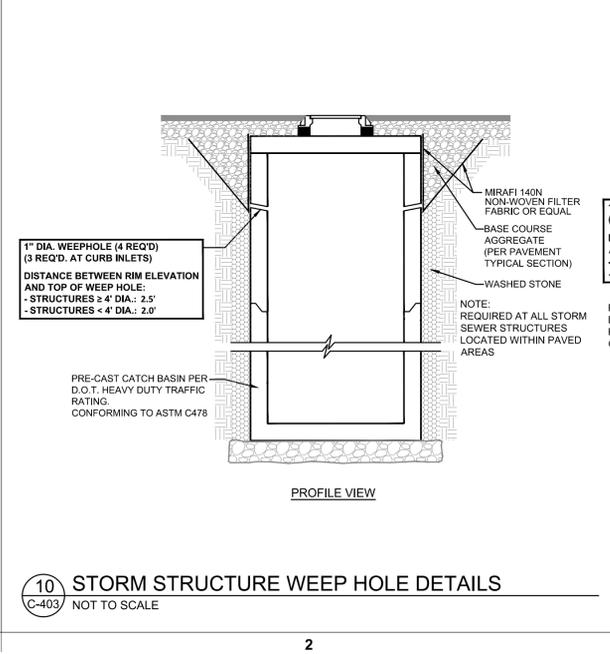
**7 SCREENED REFUSE ENCLOSURE**  
C-403 NOT TO SCALE



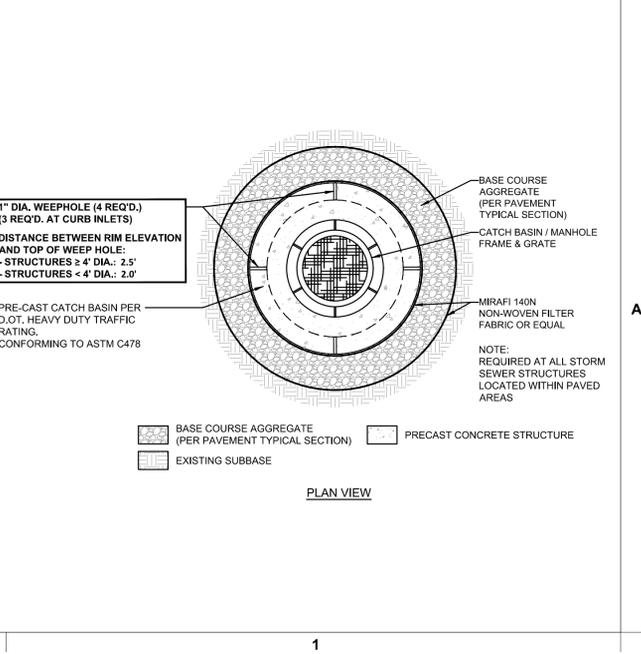
**8 CLEAN-OUT (OUTSIDE OF BUILDING)**  
C-403 NOT TO SCALE



**9 THICKENED PAVEMENT @ STRUCTURES**  
C-403 NOT TO SCALE



**10 STORM STRUCTURE WEEP HOLE DETAILS**  
C-403 NOT TO SCALE



**Chick-fil-A**

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**CHICK-FIL-A**  
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CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

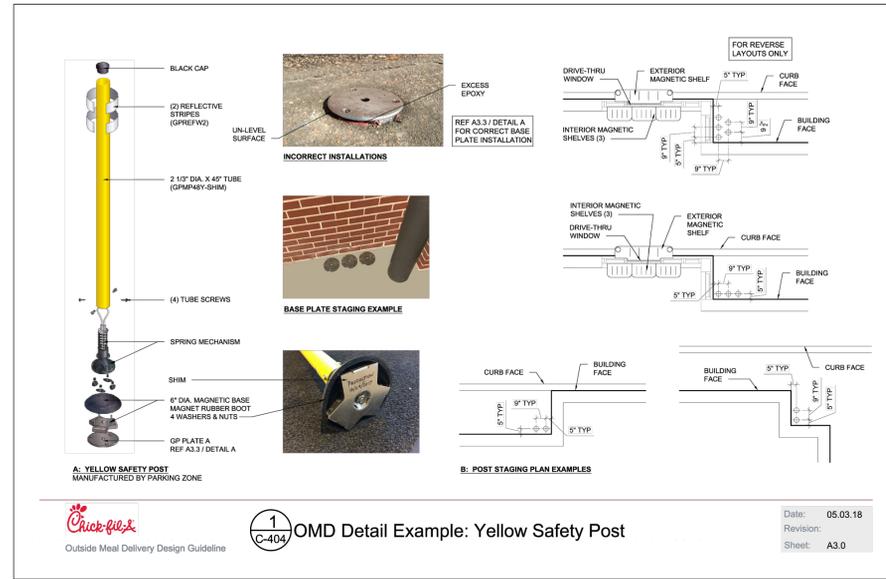
REVISION SCHEDULE		DESCRIPTION
NO.	DATE	
1	3/14/2024	ISSUED FOR BID

GBC PROJECT #	43215R
DATE FOR PERMIT	8/23/23
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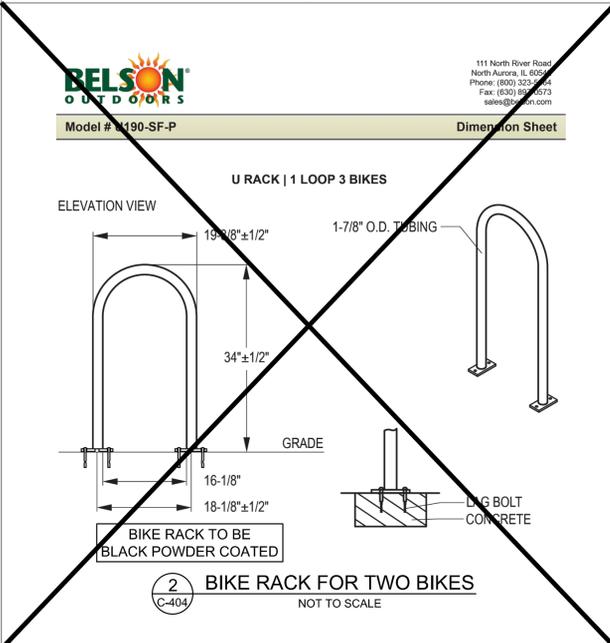
**CHICK-FIL-A SITE DETAILS**

SHEET NUMBER  
**C-403**

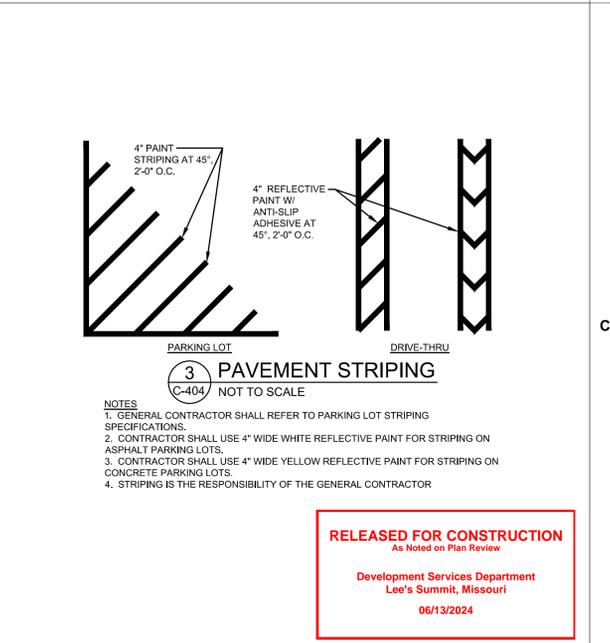


**1**  
C-404 OMD Detail Example: Yellow Safety Post

Date: 05.03.18  
Revision:  
Sheet: A3.0



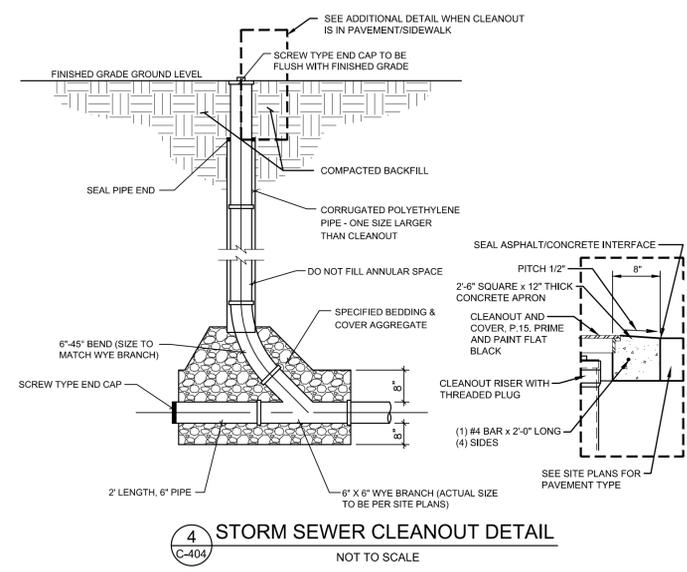
**2**  
C-404 BIKE RACK FOR TWO BIKES  
NOT TO SCALE



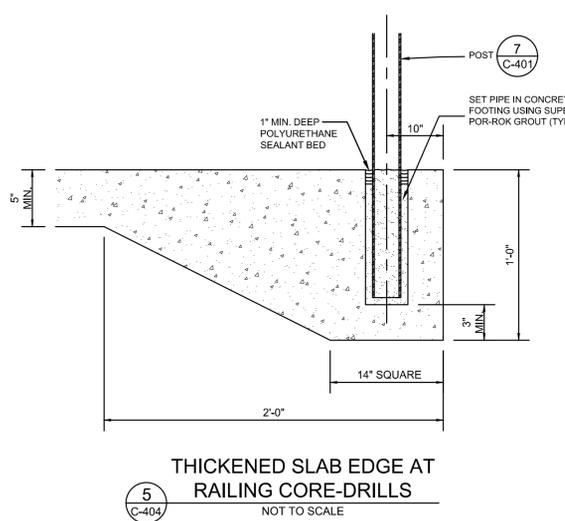
**3**  
C-404 PAVEMENT STRIPING  
NOT TO SCALE

- NOTES
1. GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS.
  2. CONTRACTOR SHALL USE 4\"/>

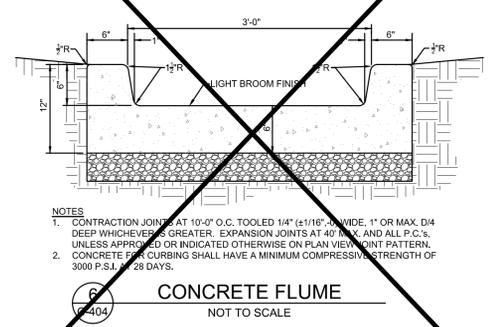
**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024



**4**  
C-404 STORM SEWER CLEANOUT DETAIL  
NOT TO SCALE

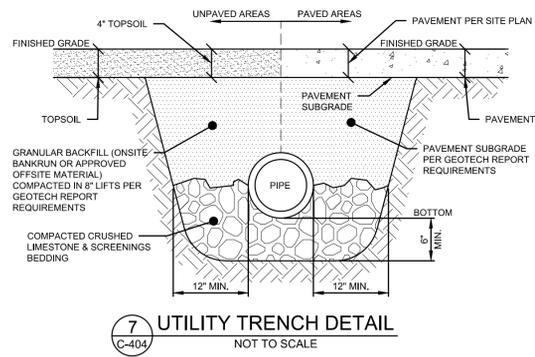


**5**  
C-404 THICKENED SLAB EDGE AT RAILING CORE-DRILLS  
NOT TO SCALE

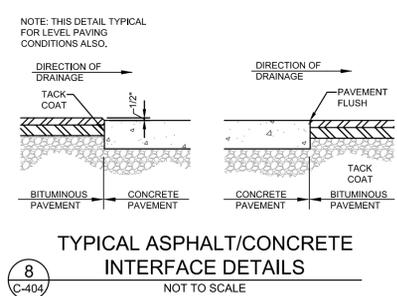


**6**  
C-404 CONCRETE FLUME  
NOT TO SCALE

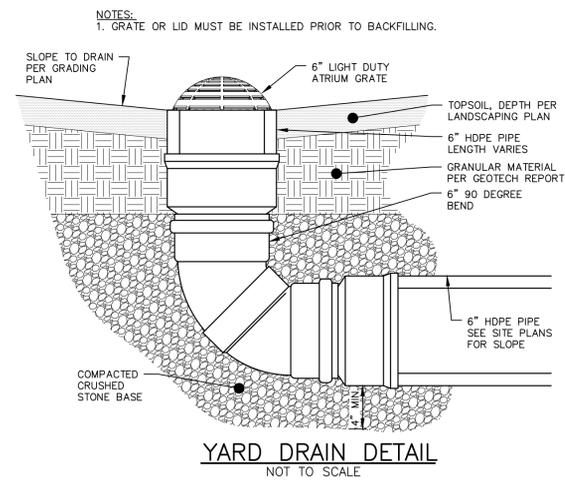
- NOTES
1. CONTRACTION JOINTS AT 10'-0\"/>



**7**  
C-404 UTILITY TRENCH DETAIL  
NOT TO SCALE



**8**  
C-404 TYPICAL ASPHALT/CONCRETE INTERFACE DETAILS  
NOT TO SCALE



**9**  
C-404 YARD DRAIN DETAIL  
NOT TO SCALE



**Chick-fil-A**

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**CHICK-FIL-A**  
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CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

REVISION SCHEDULE		DESCRIPTION
NO.	DATE	ISSUED FOR BID
1	3/14/2024	

GBC PROJECT #	43215R
PRINTED FOR	Permit
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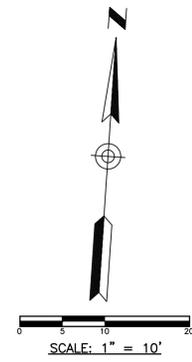
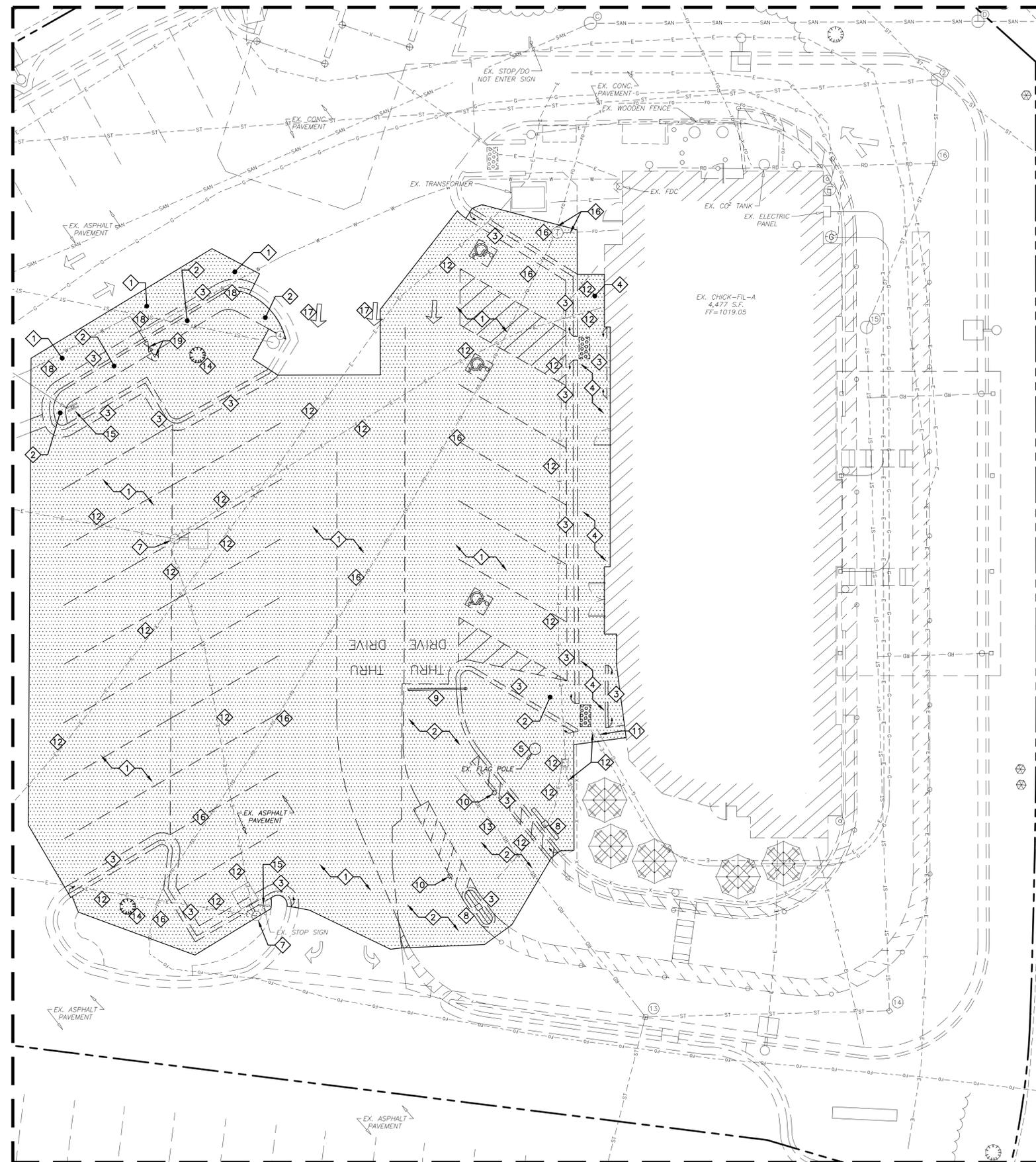
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SHEET  
**CHICK-FIL-A SITE DETAILS**

SHEET NUMBER  
**C-404**

**DEMOLITION NOTES**

- 1 EXISTING ASPHALT PAVEMENT TO BE SAWCUT FULL DEPTH AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 2 EXISTING CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 3 EXISTING CONCRETE CURB TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 4 EXISTING CONCRETE SIDEWALK TO BE SAWCUT AT NEAREST JOINT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 5 EXISTING FLAG POLE TO BE REMOVED
- 6 EXISTING RAILING TO BE REMOVED
- 7 EXISTING LIGHT POLE TO REMAIN
- 8 EXISTING ORDER STATION & ASSOCIATED UTILITIES TO BE REMOVED
- 9 EXISTING CLEARANCE BAR TO BE REMOVED
- 10 EXISTING SAFETY POST TO BE REMOVED
- 11 EXISTING GAS SERVICE TO REMAIN
- 12 EXISTING ELECTRIC TO REMAIN
- 13 EXISTING ROOF DRAIN TO REMAIN
- 14 EXISTING TREE TO BE REMOVED
- 15 EXISTING SIGN TO REMAIN
- 16 EXISTING COMMUNICATIONS TO REMAIN
- 17 EXISTING PAINT STRIPING TO BE REMOVED AS NEEDED FOR NEW LAYOUT
- 18 EXISTING WATER LINE TO REMAIN
- 19 EXISTING HYDRANT ASSEMBLY TO BE RELOCATED



**LEGEND**

- EX. FIRE HYDRANT
  - EX. VALVE
  - EX. MANHOLE
  - EX. CATCH BASIN
  - EX. BOX INLET
  - EX. LIGHT POLE
  - EX. DECORATIVE LAMP
  - EX. POWER POLE
  - EX. TREE
  - EX. TELEPHONE LINE
  - EX. ELECTRIC LINE
  - EX. OVERHEAD WIRE
  - EX. GAS LINE
  - EX. SANITARY SEWER
  - EX. STORM SEWER
  - EX. WATER LINE
  - EX. CURB
  - EX. UNKNOWN UTILITY
- AREA OF DEMOLITION INCLUDING PAVEMENT REMOVAL, BUILDINGS, CONCRETE, SIGNS, LIGHT POLES, UTILITY SERVICES, FENCES, TREES, ETC.

LIMITS OF DISTURBANCE = 0.26 AC.

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 As Noted on Plan Review  
 Development Services Department  
 Lee's Summit, Missouri  
 06/13/2024



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**CHICK-FIL-A**  
 SUMMIT FAIR FSU  
 CUSTOM PROJECT SOLUTIONS  
 690 NW BLUE PARKWAY  
 LEE'S SUMMIT, MO 64086

**FSU# 02859**

NO.	DATE	DESCRIPTION
3	5/7/2024	PHASING
4	6/10/2024	PHASING SCOPE

GBC PROJECT #	43215R
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SHEET  
**PHASE 2  
DEMOLITION  
PLAN**

SHEET NUMBER  
**C-600**

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.



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6-7-24

**CHICK-FIL-A**  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
3	6/7/2024	PHASING
4	6/10/2024	PHASING SCOPE

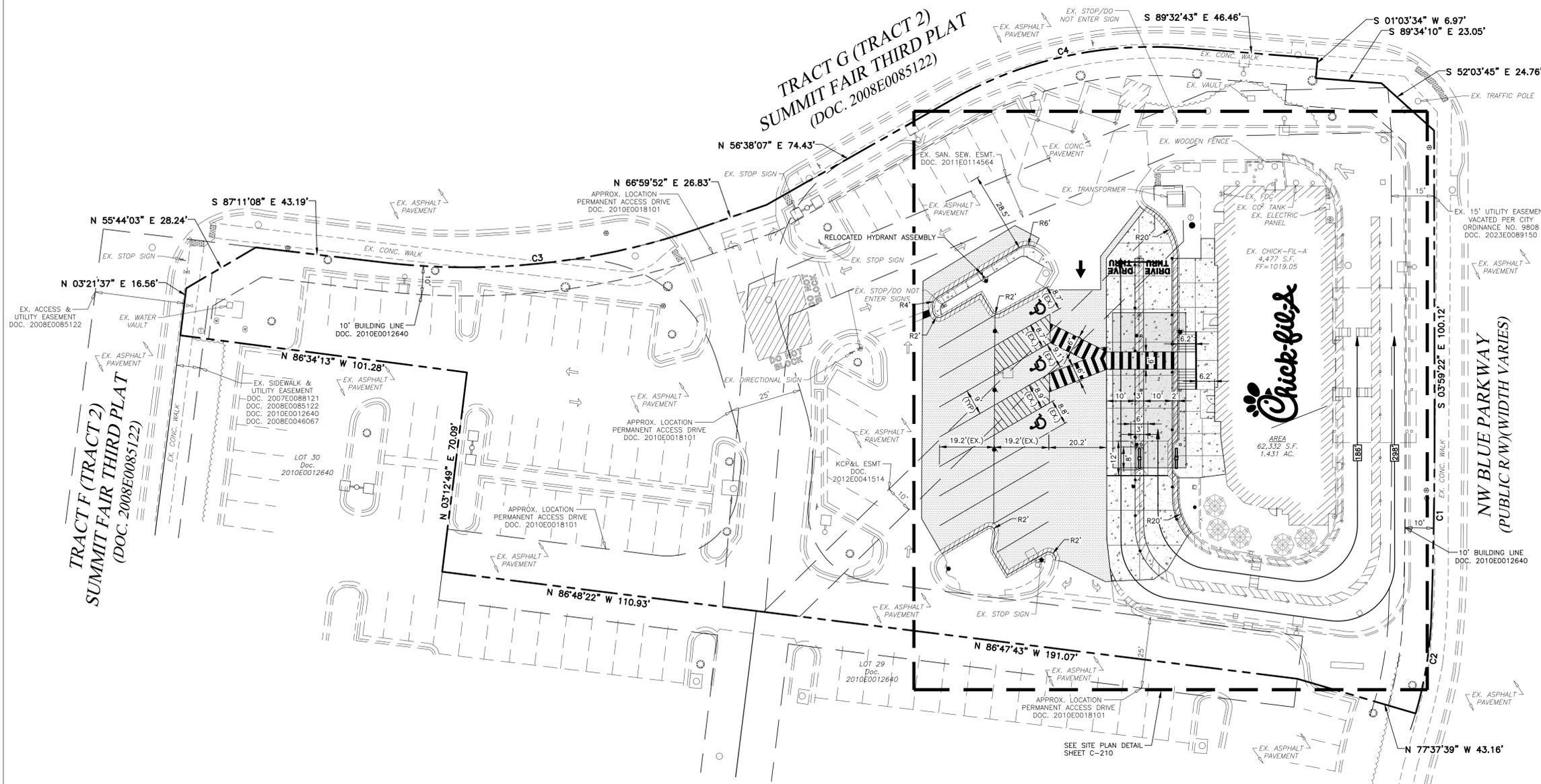
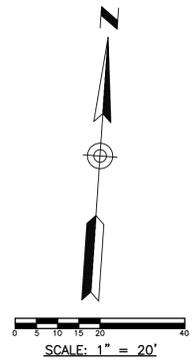
GBC PROJECT #	43215R
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DATE	8/23/23
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SHEET  
**PHASE 2**  
**SITE PLAN**

Permit  
SHEET NUMBER

**C-610**



**LEGEND**

- ▲ PROP. FIRE HYDRANT
- △ EX. FIRE HYDRANT
- ⊕ PROP. VALVE
- ⊖ EX. VALVE
- ⊙ PROP. MANHOLE
- EX. MANHOLE
- PROP. INLET
- EX. BOX INLET
- PROP. LIGHT POLE
- EX. LIGHT POLE
- PROP. LIGHT POLE
- ▬ PROP. ACCESSIBLE RAMP - RAMP IS NOT TO BE SCORED OR GROOVED
- ▬ EX. CURB
- ▬ PROP. CURB & GUTTER
- ▬ PROP. ASPHALT PAVEMENT
- ▬ PROP. CONCRETE PAVEMENT/WALK

**RELEASED FOR CONSTRUCTION**  
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Lee's Summit, Missouri  
06/13/2024

TOTAL PARCEL SIZE: 1.4310 AC.

REQUIRED SETBACKS	BUILDING	LANDSCAPE
FRONT (OLIVE GARDEN)	15'	0'
LEFT SIDE (ENTRANCE DRIVE)	10'	0'
RIGHT SIDE (NW BLUE PARKWAY)	15'	20'
REAR (NW SOUTHERN XING)	20'	20'

**PARKING SUMMARY:**  
REQUIREMENT: 14 SPACES PER 1,000 SQUARE FEET.  
TOTAL PARKING SPACES REQUIRED (PROPOSED CONDITIONS):  
4,477 S.F. / 1,000 S.F. x 14 SPACES = 62.7 = 63 SPACES

EXISTING PARKING SPACES PROVIDED:	REGULAR SPACES	ACCESSIBLE SPACES	TOTAL
REGULAR SPACES	= 64	= 3	= 67
PROPOSED PARKING SPACES PROVIDED: <td>REGULAR SPACES</td> <td>ACCESSIBLE SPACES</td> <td>TOTAL</td>	REGULAR SPACES	ACCESSIBLE SPACES	TOTAL
REGULAR SPACES	= 56	= 3	= 59

PARKING REDUCTION APPROVED BY CITY COUNCIL ON 12/5/2023 UNDER CITY ORDINANCE NO. 9811.

EXISTING AREA TABULATION	
IMPERVIOUS AREA	
BUILDINGS	= 4,477 S.F.
ASPHALT PAVEMENT	= 31,107 S.F.
CONCRETE PAVEMENT	= 16,497 S.F.
SUBTOTAL	= 52,081 S.F. (83.55%)
PERVIOUS AREA	
LANDSCAPE/PLANTING	= 10,251 S.F. (16.45%)
TOTAL AREA	= 62,332 S.F. (1.43 AC.)
NEW DEVELOPMENT AREA TABULATION	
IMPERVIOUS AREA	
BUILDINGS	= 4,477 S.F.
ASPHALT PAVEMENT	= 28,761 S.F.
CONCRETE PAVEMENT	= 18,984 S.F.
SUBTOTAL	= 52,222 S.F. (83.78%)
PERVIOUS AREA	
LANDSCAPE/PLANTING	= 10,110 S.F. (16.22%)
TOTAL AREA	= 62,332 S.F. (1.43 AC.)

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD LENGTH	CHORD BEARING
C1	68.82'	1763.73'	2'14"08"	34.41'	68.82'	S 02°58'44" E
C2	35.02'	134.24'	14°56'42"	17.61'	34.92'	S 05°11'45" W
C3	112.23'	251.22'	25°35'45"	57.07'	111.30'	N 80°21'15" E
C4	85.17'	143.26'	34°03'55"	43.89'	83.92'	N 73°40'38" E

**FLOOD ZONE DESIGNATION:** THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 29095C04176, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.

NOTE: FOR CONCRETE PAVEMENT CONSTRUCTION - SEE JOINTING DETAILS 9, 10, 11, & 12 ON SHEET C-402

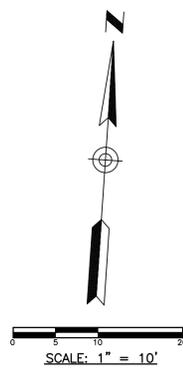
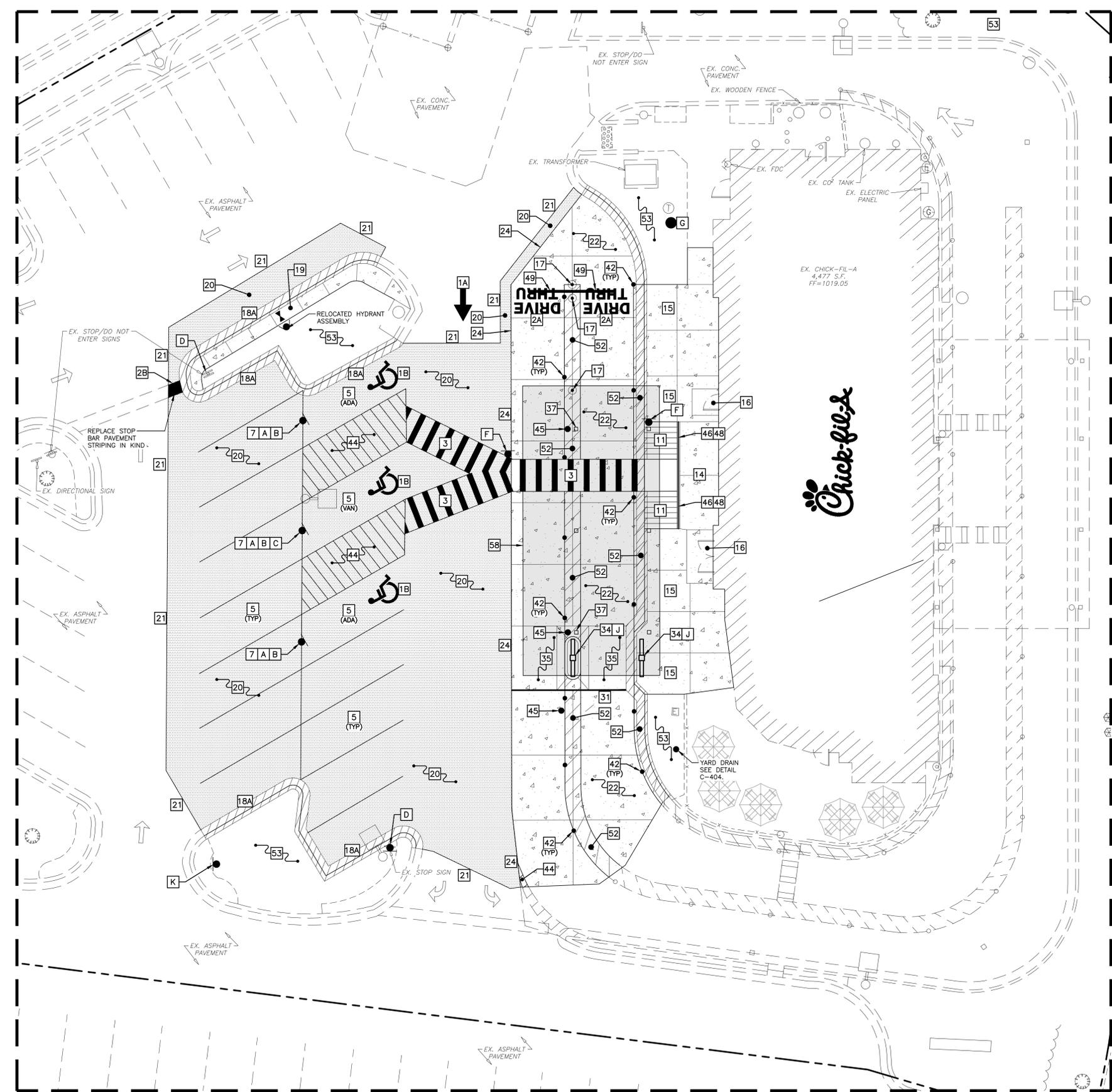
SITE PLAN DESIGN NOTES & KEY PLAN

- 1A PAINTED DIRECTIONAL ARROW DETAIL 1A/C-400
- 1B PAINTED ACCESSIBILITY PARKING SYMBOL DETAIL 1B/C-400
- 2A PAINTED DRIVE-THRU GRAPHIC DETAIL 2A/C-400
- 2B PAINTED STOP BAR GRAPHIC DETAIL 2B/C-400
- 3 CROSSWALK MARKING DETAIL 3/C-400
- 4 MULTI-LANE DIRECTIONAL GRAPHICS DETAIL 4/C-400
- 5 STANDARD OR ACCESSIBLE PARKING STALL PER CODE DETAIL 5/C-400
- 6 SOLID PLASTIC WHEEL STOP DETAIL 6/C-400
- 7 BOLLARD MOUNTED SIGN DETAIL 7/C-400
- 8 CURB RAMP W/ SHORT FLARED SIDES (GRASSED AREAS) DETAIL 8/C-400
- 9 CURB RAMP W/ FLARED SIDES (IN SIDEWALK) DETAIL 9/C-400
- 10 RETURNED CURB ACCESSIBLE RAMP DETAIL 10/C-400
- 11 SIDEWALK ACCESSIBLE RAMP DETAIL 11/C-401
- 12 DETECTABLE WARNING DEVICE DETAIL 2/C-401
- 13 TYPICAL ADA RAMP & HANDRAIL DETAIL 3/C-401
- 14 CONCRETE SIDEWALK DETAIL 4/C-401
- 15 CONCRETE SIDEWALK W/ CURB & GUTTER DETAIL 5/C-401
- 16 ENTRY DOOR FROST SLAB DETAIL DETAIL 6/C-401
- 17 CONCRETE BOLLARD DETAIL 7/C-401
- 18 CONCRETE CURB & GUTTER DETAIL 8/C-401
- 18A SPILLING CURB & GUTTER
- 18B CATCHING CURB & GUTTER
- 18C DEPRESSED SPILLING CURB & GUTTER
- 18D DEPRESSED CATCHING CURB & GUTTER
- 18E SPILLING GUTTER SECTION AT ACCESSIBLE RAMP
- 18F CATCHING GUTTER SECTION AT ACCESSIBLE RAMP
- 18G MOUNTABLE CURB & GUTTER
- 19 LANDSCAPE & IRRIGATION PROTECTOR DETAIL 9/C-401
- 20 TYPICAL HMA PAVEMENT SECTION DETAIL 1/C-402
- 21 BUTT JOINT DETAIL 2/C-402
- 22 CONCRETE PAVEMENT DRIVE-THRU LANE DETAIL 3/C-402
- 23 CONCRETE APRON AT TRASH ENCLOSURE DETAIL 4/C-402
- 24 PAVEMENT EDGE DETAIL (START AND END OF DRIVE-THRU LANES) DETAIL 5/C-402
- 25 CONCRETE PAVEMENT SECTIONS DETAIL 6/C-402
- 26 TRANSVERSE & LONGITUDINAL CONTRACTION JOINT DETAIL 7/C-402
- 27 TRANSVERSE & LONGITUDINAL DOWELED CONSTRUCTION JOINT DETAIL 8/C-402
- 28 CONTRACTION JOINT DETAIL 9/C-402
- 29 KEYPED CONSTRUCTION JOINT DETAIL 10/C-402
- 30 LONGITUDINAL BUTT JOINT DETAIL 11/C-402
- 31 EXPANSION JOINT DETAIL 12/C-402
- 32 DRIVE-THRU PLAN - FLUSH WITH FFE DETAIL 1/C-403
- 33 DRIVE-THRU ISOMETRIC DETAIL 2/C-403
- 34 DRIVE-THRU ORDER POINT ISLAND DETAIL 3/C-403
- 35 MENU BOARD LOOP DETECTION SYSTEM DETAIL 4/C-403
- 36 BUILDING DOWNSPOUT CONNECTION (TO SITE DRAINAGE SYSTEM) DETAIL 5/C-403
- 37 CANOPY DOWNSPOUT CONNECTION (TO SITE DRAINAGE SYSTEM) DETAIL 6/C-403
- 38 SCREENED REFUSE ENCLOSURE (REFER TO ARCH PLANS FOR ADDITIONAL DETAILS) DETAIL 7/C-403
- 39 CLEAN-OUT (OUTSIDE OF BUILDING) DETAIL 8/C-403
- 40 THICKENED PAVEMENT STRUCTURES DETAIL 9/C-403
- 41 STORM STRUCTURE WEEP HOLE DETAILS DETAIL 10/C-403
- 42 YELLOW SAFETY POST DETAIL 1/C-404
- 43 BIKE RACK DETAIL 2/C-404
- 44 PAVEMENT STRIPING AREA DETAIL 3/C-404
- 45 STORM SEWER CLEANOUT DETAIL 4/C-404
- 46 THICKENED SLAB EDGE AT RAILING CORE-DRILLS DETAIL 5/C-404
- 47 CONCRETE FLUME DETAIL 6/C-404
- 48 ALUMINUM HANDRAIL (REFER TO ARCH PLANS)
- 49 DRIVE-THRU CLEARANCE BAR (REFER TO SIGNAGE PACKAGE)
- 50 GREASE TRAP
- 51 PROPOSED TRANSFORMER
- 52 STRIPING PER CHICK-FIL-A DUAL FLEX LANE REQUIREMENTS
- 53 LANDSCAPED AREA
- 54 4" THICK CONCRETE STRIP BETWEEN BUILDING & BACK-OF-CURB
- 55 4" THICK CONCRETE STRIP BETWEEN CURBS
- 56 TYPICAL LOCATION FOR OUTDOOR TABLES (REFER TO ARCH PLANS)
- 57 CONCRETE PAD FOR OPTIONAL CASH STATION
- 58 FREE-STANDING ORDER POINT CANOPY
- 59 FREE-STANDING OUTSIDE MEAL DELIVERY CANOPY

SIGN LEGEND

\*\* CONTRACTOR TO REFER TO THE SIGNAGE PACKAGE FOR PLACEMENT AND SPECIFICATIONS OF ALL SIGNS \*\*

- A ACCESSIBLE PARKING SIGN (SEE SIGNAGE PACKAGE) R7-8; 12"x18" (TYP.)
- B ACCESSIBLE PARKING FINE SIGN (SEE SIGNAGE PACKAGE) 6"x12" (TYP.)
- C "VAN ACCESSIBLE" SIGN (SEE SIGNAGE PACKAGE) R7-8P; 6"x12" (TYP.)
- D "DO NOT ENTER" SIGN (SEE SIGNAGE PACKAGE) R5-1; 24"x24" (TYP.)
- E STOP SIGN (SEE SIGNAGE PACKAGE) R1-1; 30"x30" (TYP.)
- F CFA PEDESTRIAN CROSSING SIGN (SEE SIGNAGE PACKAGE)
- G RELOCATED FLAG POLE
- H RELOCATED CFA MONUMENT SIGN
- J DIGITAL DRIVE-THRU MENU BOARDS
- K "ONE WAY" SIGN (SEE SIGNAGE PACKAGE)
- L "WATCH FOR VEHICLES" SIGN (SEE SIGNAGE PACKAGE)
- M "TEAM MEMBER CROSSING" SIGN (SEE SIGNAGE PACKAGE)



- LEGEND
- ▲ PROP. FIRE HYDRANT
  - EX. FIRE HYDRANT
  - ▽ PROP. VALVE
  - EX. VALVE
  - PROP. MANHOLE
  - EX. MANHOLE
  - PROP. INLET
  - EX. BOX INLET
  - EX. LIGHT POLE
  - PROP. LIGHT POLE
  - ▬ PROP. ACCESSIBLE RAMP - RAMP IS NOT TO BE SCORED OR GROOVED
  - ▬ EX. CURB
  - ▬ PROP. CURB & GUTTER
  - ▬ PROP. ASPHALT PAVEMENT
  - ▬ PROP. CONCRETE PAVEMENT/WALK

**RELEASED FOR CONSTRUCTION**  
 As Noted on Plan Review  
 Development Services Department  
 Lee's Summit, Missouri  
 06/13/2024



**Chick-fil-A**

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690 NW BLUE PARKWAY  
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**FSU# 02859**

REVISION SCHEDULE		DESCRIPTION
NO.	DATE	
3	6/7/2024	PHASING
4	6/10/2024	PHASING SCOPE

GBC PROJECT #	43215R
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SHEET PHASE 2  
SITE PLAN  
DETAIL

SHEET NUMBER C-611

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.

**GRADING & UTILITY NOTES**

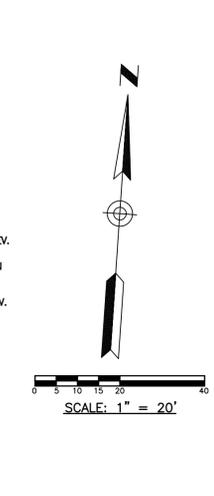
- LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR 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/SERVICE. 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 AND SUBGRADE AREAS 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. SHOULD SUBBASE BE DEEMED 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 PROVIDED 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.
- CONDITION OF EXISTING UNDERGROUND STORAGE TO BE DETERMINED PRIOR TO START OF CONSTRUCTION. AS DETERMINED BY INSPECTION OF EXISTING SYSTEM CLEANING MAY BE REQUIRED PRIOR TO START OF CONSTRUCTION. REPORT CONDITION TO PROJECT ENGINEER IN ADDITION TO MODIFICATION TO OUTLET PIPE OTHER ADJUSTMENTS TO SYSTEM MAY BE REQUIRED BASED ON CONDITION OF SYSTEM.

**LEGEND**

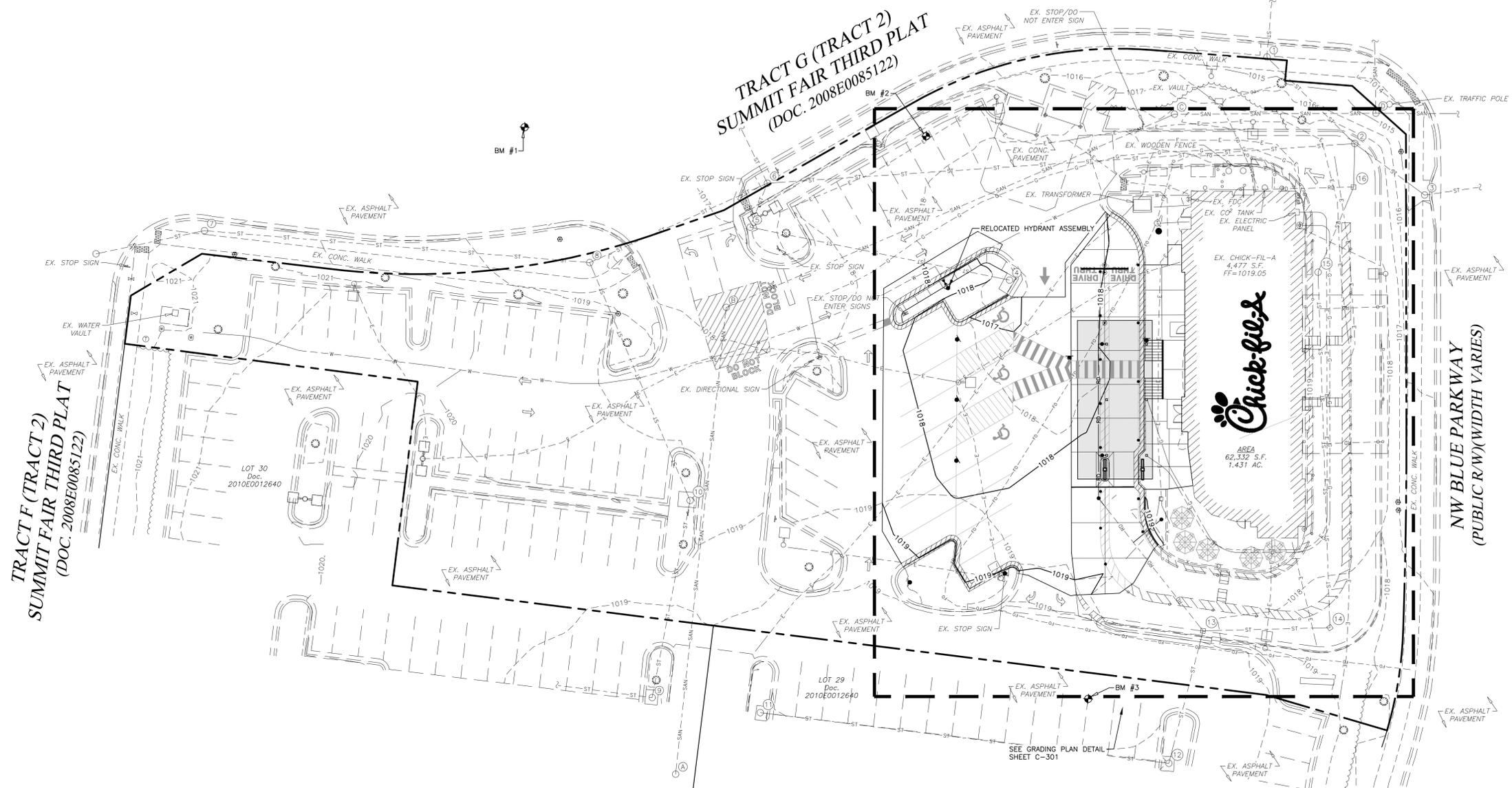
- ▲ PROP. FDC
- △ EX. FIRE HYDRANT
- EX. VALVE
- EX. VALVE
- EX. MANHOLE
- EX. INLET
- EX. INLET
- EX. GRADE
- PROP. TOP OF CURB ELEV.
- PROP. BOTTOM OF CURB ELEV.
- PROP. FINISHED ELEVATION
- PROP. TOP OF WALL ELEV.
- PROP. BOTTOM OF WALL ELEV.
- POSITIVE DRAINAGE
- EX. STORM SEWER
- PROP. STORM SEWER
- EX. CURB
- PROP. CURB & GUTTER
- PROP. CONTOURS
- EX. CONTOURS
- MEET EXISTING ELEVATION



**EXISTING STORM SEWER STRUCTURE SCHEDULE**

- EX. CURB INLET M.H.  
TOP 1014.53  
INV. 1005.83, 18" N  
INV. 1005.83, 18" SE
- EX. STM. M.H.  
TOP 1016.97 (EX.)  
INV. 1004.77, 18" NW  
INV. 1003.77, 36" SE  
INV. 1003.77, 36" W  
INV. 1010.97, 24" S
- EX. CURB INLET M.H.  
TOP 1014.99  
INV. 1002.94, 36" NW  
INV. 1002.94, 36" E
- EX. CATCH BASIN  
TOP 1017.55  
INV. 1014.40, 12" W
- EX. CURB INLET M.H.  
TOP 1017.61  
INV. 1013.51, 12" E  
INV. 1013.51, 12" N
- EX. CURB INLET M.H.  
TOP 1016.90  
INV. 1012.80, 12" S  
INV. 1005.95, 36" E  
INV. 1006.11, 24" NW  
INV. 1005.95, 30" SW
- EX. STM. M.H.  
TOP 1020.73  
INV. 1012.13, 18" W  
INV. 1012.13, 18" E
- EX. STM. M.H.  
TOP 1018.55  
INV. 1009.60, 18" W  
INV. 1007.50, 30" NE  
INV. 1008.95, 24" SE
- EX. CURB INLET M.H.  
TOP 1018.83  
INV. 1011.03, 24" W  
INV. 1011.03, 24" N
- EX. CURB INLET M.H.  
TOP 1019.14  
INV. 1010.24, 24" S  
INV. 1010.24, 24" NW
- EX. CATCH BASIN  
TOP 1018.32  
INV. 1014.42, 15" E
- EX. CURB INLET M.H.  
TOP 1018.24  
INV. 1013.14, 15" W  
INV. 1013.14, 18" N
- EX. CATCH BASIN  
TOP 1018.16 (PROP.)  
INV. 1012.66, 18" S  
INV. 1012.66, 24" E
- EX. CATCH BASIN  
TOP 1017.40  
INV. 1012.32, 24" W  
INV. 1012.32, 24" N
- EX. STM. M.H.  
TOP 1018.46  
INV. 1012.00, 24" S  
INV. 1012.00, 24" N
- EX. CATCH BASIN  
TOP 1017.39  
INV. 1011.48, 24" S  
INV. 1011.48, 24" N  
INV. 1013.38, 6" W

**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review  
  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024



**TRACT F (TRACT 2)  
SUMMIT FAIR THIRD PLAT  
(DOC. 2008E0085122)**

**TRACT G (TRACT 2)  
SUMMIT FAIR THIRD PLAT  
(DOC. 2008E0085122)**

**NW BLUE PARKWAY  
(PUBLIC R/W)(WIDTH VARIES)**

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.

FLOOD ZONE DESIGNATION: THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 29095C04176, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.



**Chick-fil-A**

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**CHICK-FIL-A**  
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690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

NO.	DATE	DESCRIPTION
3	6/7/2024	PHASING
4	6/10/2024	PHASING SCOPE

GBC PROJECT #	43215R
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DATE	8/23/23
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SHEET  
**PHASE 2  
GRADING PLAN**

SHEET NUMBER  
**C-620**



**PROJECT DESCRIPTION:**  
THE SITE IS AN EXISTING CHICK-FIL-A RESTAURANT AND IS BEING DISTURBED TO MODIFY THE PARKING LOT AND DRIVE THRU. AREA OF DISTURBANCE IS APPROXIMATELY 0.50 ACRES.

**SCHEDULE OF CONSTRUCTION ACTIVITY:**  
THE CONTRACTOR SHALL IMPLEMENT ALL EROSION CONTROL MEASURES PRIOR TO OTHER CONSTRUCTION ACTIVITY. ALL EROSION CONTROL MEASURES MUST REMAIN FUNCTIONAL UNTIL THE SITE HAS BEEN STABILIZED UNLESS OTHERWISE STATED ON THE PLAN. SEE SEQUENCE OF CONSTRUCTION ACTIVITIES. SHT. C-310 AND SWPPP REPORT.

**EROSION CONTROL NOTES:**  
DIVERSION CHANNELS AND PERIMETER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE STABILIZED. BMP'S SHOULD BE CLEANED OUT ONCE CAPACITY HAS BEEN REDUCED BY 40 %.

EROSION CONTROL BLANKETS WITH MATTING WILL BE USED ON DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES GREATER THAN 6 % GRADE.

**CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL.**

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF JOPLIN, MO.

OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.

CONTRACTOR IS RESPONSIBLE TO PICK UP/CLEAN UP ANY LITTER, CONSTRUCTION DEBRIS AND/OR CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER PRIOR TO ANTICIPATED STORM EVENTS OR WIND EVENTS AS FORECASTED BY LOCAL WEATHER.

DUST SUPPRESSANTS ARE REQUIRED AS NEEDED.

OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD NOTED ON THE PLAN

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. PROVIDED WILL BE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATED OF INSPECTION AND CORRECTIVE MEASURES TAKEN.

SILT FENCES ARE TO BE INSTALLED IN FRONT OF STORM INLETS AND FILL AREAS BEFORE STARTING CONSTRUCTION PER MANUFACTURERS RECOMMENDATIONS.

SILT FENCES ARE TO BE CONSTRUCTED ON THE OUTSIDE OF ALL STOCK PILES.

ALL EROSION CONTROL MEASURES TO BE MAINTAINED BY CONTRACTOR UNTIL PROJECT COMPLETION AND THEN REMOVED.

SEDIMENT TO BE REMOVED FROM SILT FENCE AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

ANY DE-WATERING ACTIVITY SHALL INCLUDE A DIRT BAG OR DANDY BAG AT THE END OF PUMPING DISCHARGE LINE PRIOR TO ENTERING INTO THE STORM SEWER.

EXISTING MAX. SLOPE TO OUTFALL = 25.0%  
EXISTING MIN. SLOPE TO OUTFALL = 1.0%

POST-CONSTRUCTION MAX. SLOPE TO OUTFALL = 33.3%  
POST-CONSTRUCTION MIN. SLOPE TO OUTFALL = 1.0%

PRE CONSTRUCTION RUNOFF COEFFICIENT = 0.81  
POST CONSTRUCTION RUNOFF COEFFICIENT = 0.84

PRE CONSTRUCTION IMPERVIOUS AREA = 49,337 S.F. (79.15%)  
POST CONSTRUCTION IMPERVIOUS AREA = 52,081 S.F. (83.55%)

RECEIVING WATER:

EXISTING TOPOGRAPHY: CURRENTLY THE SITE IS A CHICK-FIL-A RESTAURANT INSPECT OUTFALLS AND FIX SITE BASED ON THE INSPECTIONS. REVISE SWPPP IF APPROPRIATE.

THERE IS NO INDUSTRIAL/NON-CONSTRUCTION DISCHARGE ASSOCIATED WITH THIS PROJECT.

TEMPORARY SEEDING IS REQUIRED WHEN GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS, AND ON STOCKPILES. PERMANENT SEEDING IS REQUIRED WHEN GRADING OPERATIONS ARE COMPLETED AND/OR CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. SEED AREAS THAT SHOW SIGNS OF EROSION.

OFFSITE ACCUMULATION OF SEDIMENT WILL BE REMOVED, YET IF A STREAM IS REACHED, CONTACT WATER POLLUTION CONTROL FIRST.

NO TOXIC OR HAZARDOUS WASTES SHALL BE DISPOSED INTO STORM DRAINS, SEPTIC TANKS, OR BY BURYING, BURNING, OR MIXING WASTES. IF ANY ITEMS DESCRIBED NEED DISPOSAL OF, CONTRACTOR SHALL CONTACT CITY OF JOPLIN TO DETERMINE PREFERRED LOCAL RECYCLE LOCATION.

CONTRACTOR TO KEEP BRICKS, HARDENED CONCRETE, AND SOIL WASTE FREE FROM CONTAMINATION WHICH MAY LEACH CONSTITUENTS TO WATERS OF THE STATE.

ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

OPEN BURNING IS NOT ALLOWABLE.

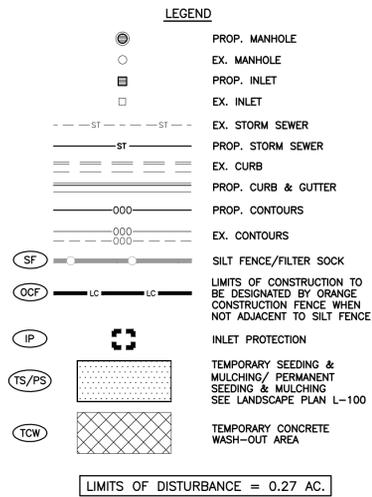
CONTRACTOR TO MAINTAIN A RAIN GAUGE ON SITE OR NEARBY REFERENCE FOR RECORDS. INSPECTORS OF THE SITE MUST HAVE COMPLETED THE WFC FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL (EPSO) COURSE.

REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES UPON FINAL STABILIZATION & REMOVAL OF SEDIMENT IN THE DRAIN INLET FILTRATION DEVICES ACCORDING TO STATE AND LOCAL REGULATIONS.

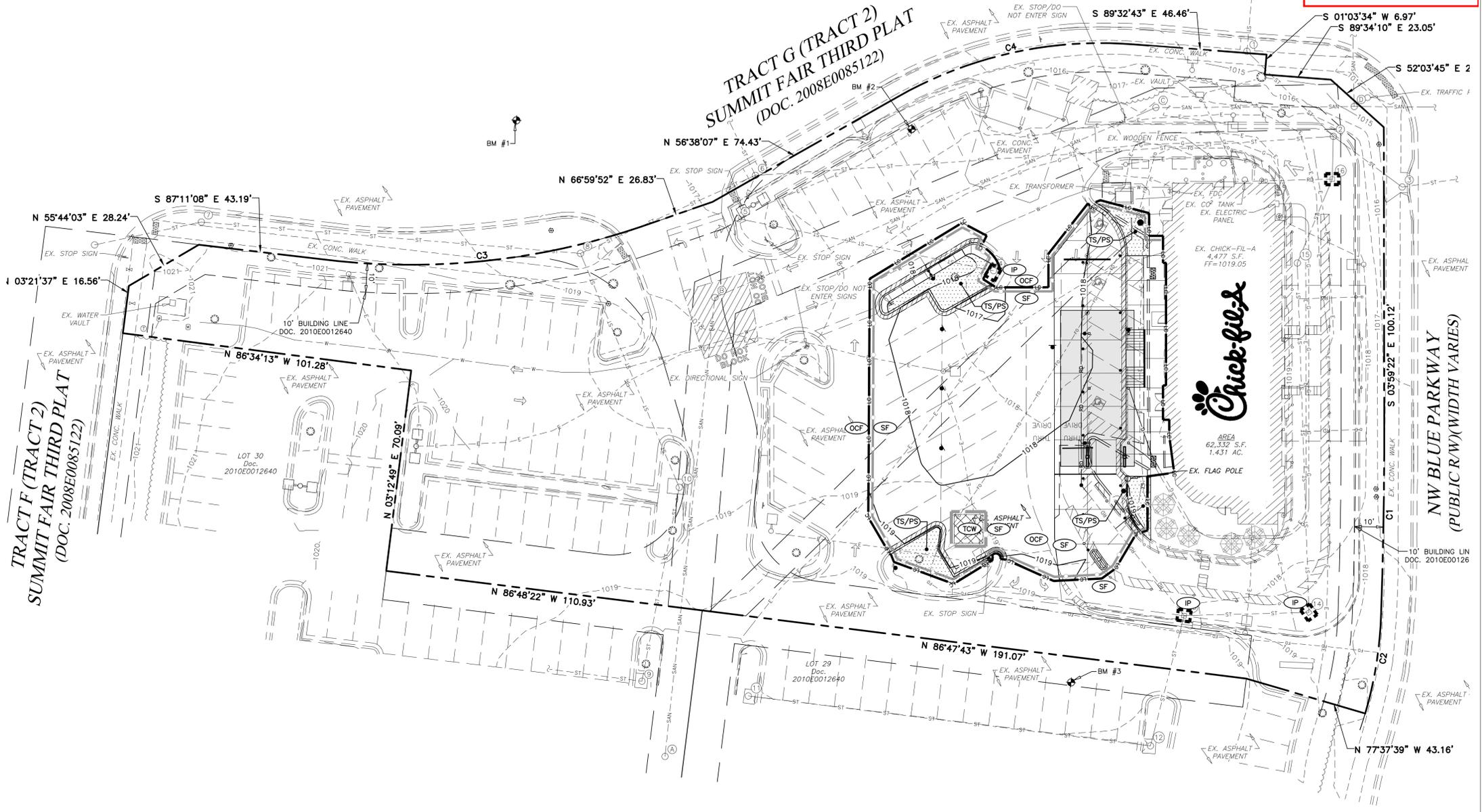
**SEQUENCE OF CONSTRUCTION ACTIVITY**

THE CONTRACTOR SHALL IMPLEMENT ALL OF THE FOLLOWING EROSION CONTROL MEASURES, IN THE ORDER STATED, PRIOR TO OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL AND STORM WATER POLLUTION PREVENTION ITEMS. ALL EROSION CONTROL MEASURES MUST REMAIN FUNCTIONAL UNTIL THE SITE HAS BEEN STABILIZED.

- BEFORE CONSTRUCTION, EVALUATE, MARK, AND PROTECT IMPORTANT TREES
- CLEAR AREAS FOR CONSTRUCTION ENTRANCE AND SILT FENCE.
- INSTALL CONSTRUCTION ENTRANCE.
- POST SWPPP PLANS ONSITE.
- INSTALL EROSION CONTROL FENCES AND OTHER PERIMETER CONTROLS AROUND CONSTRUCTION AREA BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- INSTALL PROTECTION MEASURES AROUND EXISTING INLETS.
- BEGIN DEMOLITION AND EARTHWORK.
- COMPLETE THE CUT AND FILLS ON THE SITE. INSTALL CHECK DAMS OR STABILIZE THE SLOPES WITH EROSION CONTROL BLANKETS AS NEEDED.
- INSTALL STAGING AREAS, MATERIAL STORAGE AREAS, FUEL STATIONS, AND CONCRETE WASHOUT.
- INSTALL INLET FILTER PROTECTION AS INLETS ARE INSTALLED.
- CONTINUE SITE EXCAVATING, BACKFILLING, AND GRADING ACTIVITIES. ANY AREA LEFT DORMANT FOR MORE THAN 15 DAYS MUST BE TEMPORARILY SEEDED.
- FINISH MASS EARTHWORK.
- COMPLETE ASPHALT PAVING.
- FINAL GRADE AND FINISH.
- COMPLETE FINAL SEEDING AND LANDSCAPING AND STABILIZE ALL DISTURBED AREAS.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL PRACTICES UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- REMOVE SEDIMENT FROM STORMWATER MANAGEMENT SYSTEM, SEED AND MULCH SITE AS NEEDED.



**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024



CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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**

Chick-fil-A  
5200 Buffington Road  
Atlanta, Georgia 30349-2998

GBC DESIGN, INC.  
565 White Pond Dr. Akron, OH 44320-1123  
Phone 330-836-0228 Fax 330-836-5782



**CHICK-FIL-A**  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

NO.	DATE	DESCRIPTION
1	3/14/2024	ISSUED FOR BID
2	4/9/2024	FOR CONSTRUCTION
3	6/7/2024	PHASING
4	6/10/2024	PHASING SCOPE

GBC PROJECT # 43215R  
PRINTED FOR Permit  
DATE 8/23/23  
DRAWN BY BAW

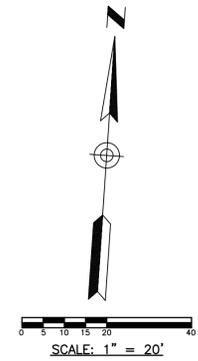
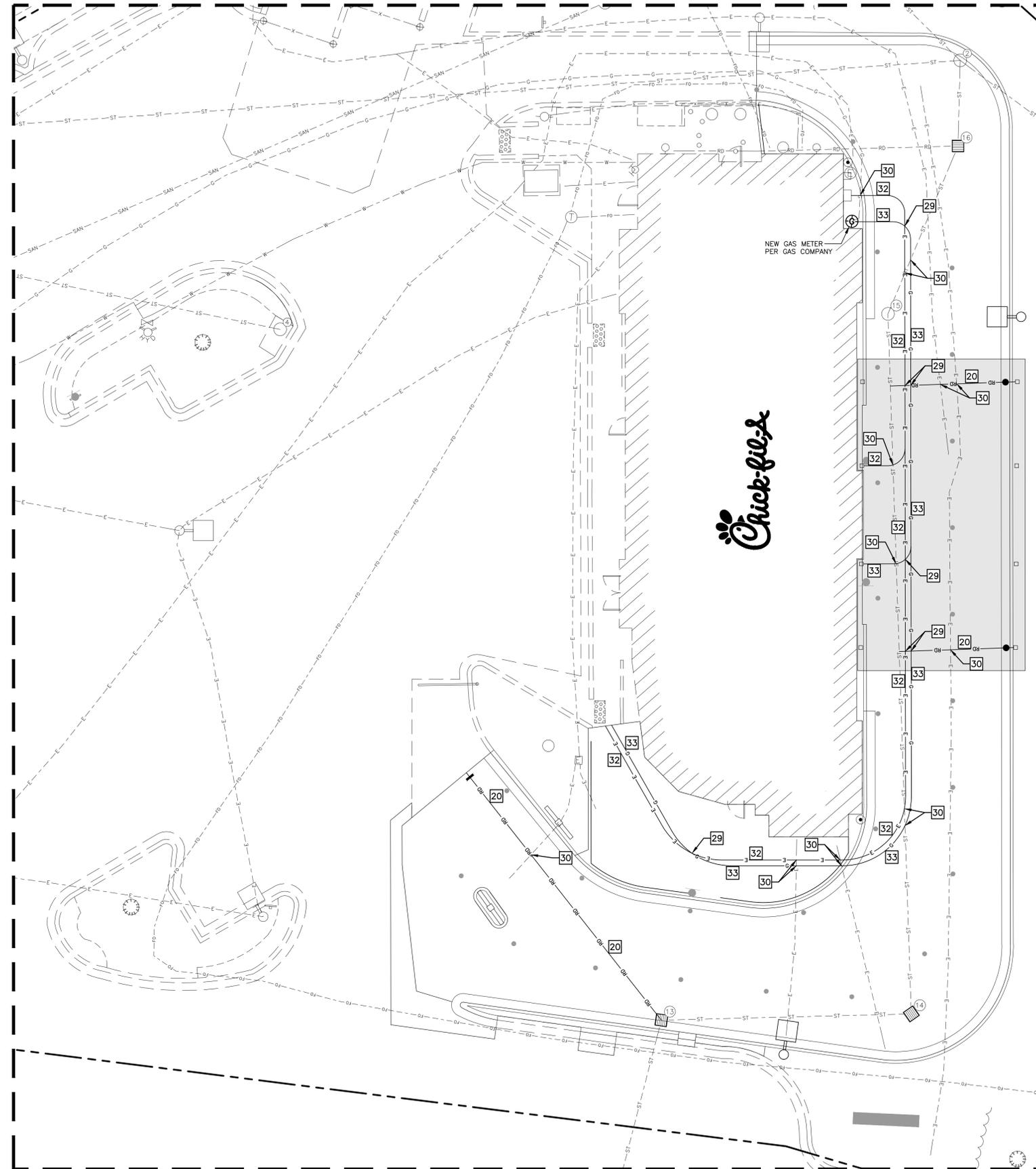
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SHEET  
**PHASE 2- STORMWATER**  
POLLUTION PREVENTION PLAN  
(SWPPP)

SHEET NUMBER **C-630**

**UTILITY LAYOUT NOTES**

- 20 INSTALL 6" SCHEDULE 40 PVC ROOF DRAIN PIPE DRAIN INCLUDING ALL NECESSARY FITTINGS. CONNECT TO 6" ROOF DRAIN. SITE CONTRACTOR TO COORDINATE WITH BUILDING AND PLUMBING CONTRACTOR.
- 29 PROPOSED UTILITY CROSSING—CONTRACTOR TO MAINTAIN REQUIRED CLEARANCES.
- 30 EXISTING UTILITY CROSSING. CONTRACTOR TO VERIFY EXACT ELEVATIONS OF THE EXISTING UTILITY PRIOR TO THE START OF CONSTRUCTION. REPORT ANY CONFLICTS WITH PROPOSED UTILITIES TO GBC DESIGN, INC. PRIOR TO THE START OF CONSTRUCTION OF THE PROPOSED UTILITY. CONTRACTOR TO MAINTAIN REQUIRED CLEARANCES.
- 32 INSTALL ELECTRIC SERVICE TO CANOPY (REFER TO MEP PLANS). INSTALL TRENCHING AND 2-2" SCHEDULE 40 PVC CONDUITS PER MEP SPECIFICATIONS. SITE CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR.
- 33 INSTALL GAS SERVICE TO CANOPY (REFER TO MEP PLANS). SITE CONTRACTOR TO COORDINATE WITH BUILDING AND PLUMBING CONTRACTOR.



**LEGEND**

△	EX. FIRE HYDRANT
⊕	EX. VALVE
○	PROP. MANHOLE
○	EX. MANHOLE
□	PROP. INLET
□	EX. BOX INLET
⊕	EX. LIGHT POLE
⊕	PROP. LIGHT POLE
⊕	EX. UTILITY POLE
⊕	PROP. UTILITY POLE
—	EX. CURB
—	PROP. CURB & GUTTER
—	EX. CABLE T.V. LINE
—	PROP. CABLE T.V. LINE
—	PROP. ELECTRIC LINE
—	EX. ELECTRIC LINE
—	EX. FIBER OPTIC LINE
—	PROP. GAS LINE
—	EX. GAS LINE
—	PROP. TELEPHONE LINE
—	EX. TELEPHONE LINE
—	PROP. SANITARY SEWER
—	EX. SANITARY SEWER (PRIVATE)
—	PROP. STORM SEWER
—	EX. STORM SEWER
—	PROP. FIRE WATER LINE
—	EX. FIRE WATER LINE
—	PROP. DOMESTIC WATER LINE
—	EX. DOMESTIC WATER LINE
—	PROP. FIRE WATER SERVICE
—	EX. FIRE WATER SERVICE
—	PROP. WATER MAIN
—	EX. WATER MAIN
—	PROP. IRRIGATION SERVICE
—	EX. IRRIGATION SERVICE

**MISCELLANEOUS NOTES:**  
 1. ALL THE BUILDING UTILITY SERVICE LOCATIONS TO BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO THE START OF CONSTRUCTION.  
 2. SEE THE SITE LIGHTING AND PHOTOMETRIC PLANS FOR THE EXACT LOCATIONS OF THE SITE LIGHT POLE LOCATIONS.

**RELEASED FOR CONSTRUCTION**  
 As Noted on Plan Review  
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 Lee's Summit, Missouri  
 06/13/2024



**Chick-fil-A**  
 5200 Buffington Road  
 Atlanta, Georgia 30349-2998

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**GBC DESIGN, INC.**  
 565 White Pond Dr.  
 Phone 330-836-0228  
 Akron, OH 44320-1123  
 Fax 330-836-5782



**CHICK-FIL-A**  
 SUMMIT FAIR FSU  
 CUSTOM PROJECT SOLUTIONS  
 690 NW BLUE PARKWAY  
 LEE'S SUMMIT, MO 64086

**FSU# 02859**

NO.	DATE	DESCRIPTION
1	3/14/2024	ISSUED FOR BID
2	4/5/2024	FOR CONSTRUCTION
3	6/7/2024	PHASING
4	6/10/2024	PHASING SCOPE

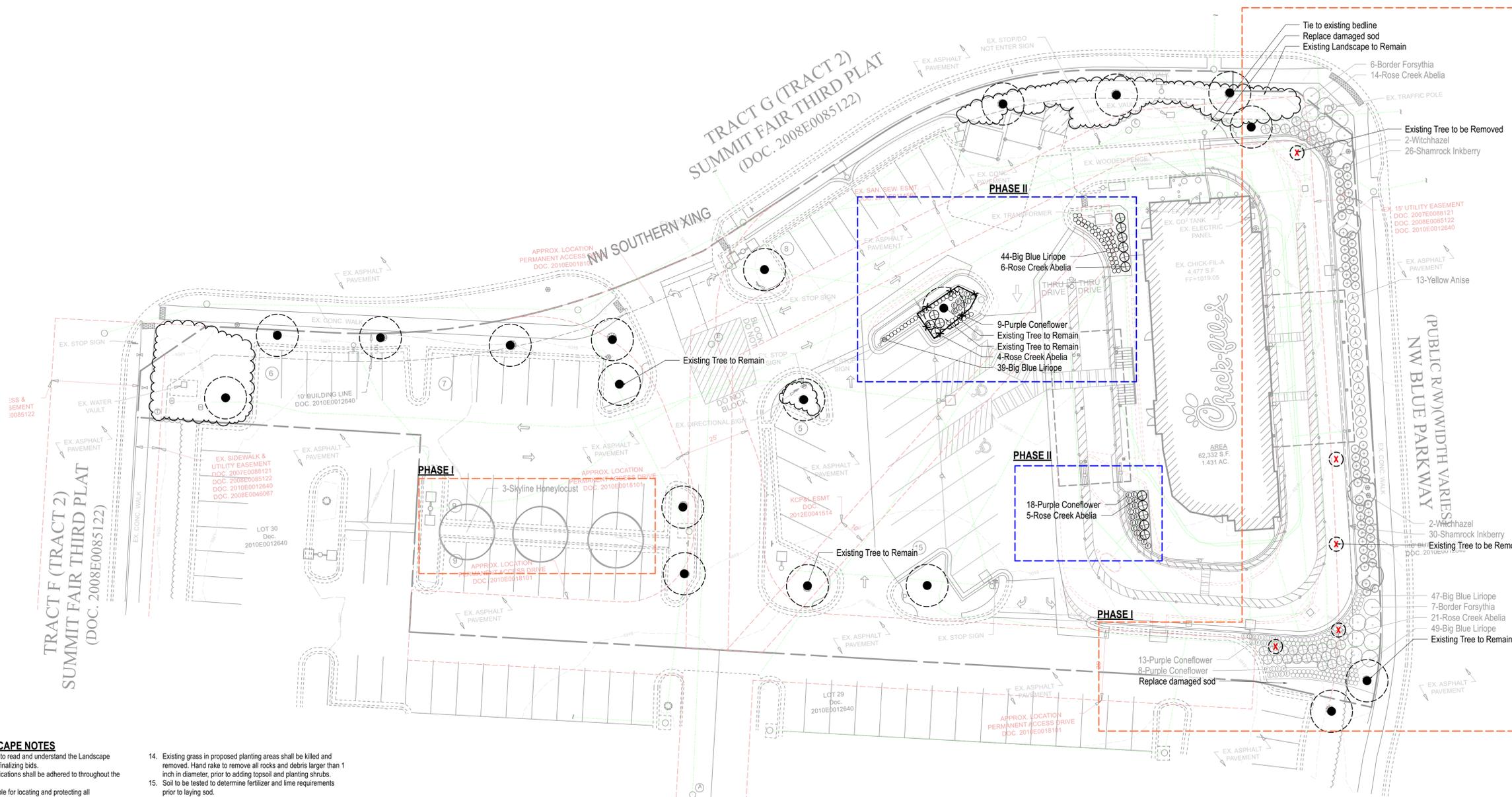
GBC PROJECT #	43215R
PRINTED FOR	Permit
DATE	8/23/23
DRAWN BY	BAW

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SHEET **UTILITY PLAN**

Permit SHEET NUMBER **PS-100**

**CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS 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 OR CONFLICTS 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.**



**MIDWEST LANDSCAPE NOTES**

- Landscape Contractor to read and understand the Landscape Specifications prior to finalizing bids. The Landscape Specifications shall be adhered to throughout the construction process.
- Contractor is responsible for locating and protecting all underground utilities prior to digging.
- Contractor is responsible for protecting existing trees from damage during construction.
- All tree protection devices to be installed prior to the start of land disturbance, and maintained until final landscaping.
- All tree protection areas to be protected from sedimentation.
- All tree protection fencing to be inspected daily, and repaired or replaced as needed.
- No parking, storage or other construction activities are to occur within tree protection areas.
- All planting areas shall be cleaned of construction debris (ie. concrete, rock, rubble, building materials, etc) prior to adding and spreading of the topsoil.
- General Contractor is responsible for adding a min of 4" clean friable topsoil in all planting beds and all grassed areas. Graded areas to be held down the appropriate elevation to account for topsoil depth. See Landscape Specifications for required topsoil characteristics.
- In all parking lot islands, the General Contractor is responsible to remove all debris, fracture/loosen subgrade to a min. 24" depth. Add topsoil to a 6"-8" berm height above island curbing; refer to landscape specifications and landscape island detail.
- Prior to beginning work, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve topsoil provided by the General Contractor and observe the site conditions under which the work is to be done. Notify the General Contractor of any unsatisfactory conditions, work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Architect.
- Any deviations from the approved set of plans are to be approved by the Landscape Architect.
- Landscaping shall be installed in conformance with ANSI Z60.1 the "American Standard for Nursery Stock" and the accepted standards of the American Association of Nurserymen.
- Existing grass in proposed planting areas shall be killed and removed. Hand rake to remove all rocks and debris larger than 1 inch in diameter, prior to adding topsoil and planting shrubs.
- Soil to be tested to determine fertilizer and lime requirements prior to laying sod.
- Annual and perennial beds: add min. 4 inch layer of organic material and till to a min. depth of 12 inches. Mulch annual and perennial beds with 2-3 inch depth of mini nuggets.
- All shrubs beds (existing and new) to be mulched with a min. 3 inch layer of mulch. Rock Mulch to be provided around the building as shown and called out on the landscape plan, all other planting beds are to be mulched with double shredded hardwood mulch.
- Planting holes to be dug a minimum of twice the width of the root ball, for both shrub and tree. Set plant material 2-3" above finish grade. Backfill planting pit with topsoil and native excavated soil. Sod to be delivered fresh (Cut less than 24 hours prior to arriving on site), laid immediately, rolled, and watered thoroughly immediately after planting. Edge of sod at planting beds are to be "V" trenched; see Landscape Details.
- Any existing grass disturbed during construction to be fully removed, regraded and replaced. All tire marks and indentations to be repaired.
- Water thoroughly twice in first 24 hours and apply mulch immediately.
- The Landscape Contractor shall guarantee all plants installed for one full year from date of acceptance by the owner. All plants shall be alive and at a vigorous rate of growth at the end of the guarantee period. The Landscape Contractor shall not be responsible for acts of God or vandalism. See Landscape Specifications for Warranty requirements/expectations.
- Any plant that is determined dead, in an unhealthy, unsightly condition, lost its shape due to dead branches, or other symptoms of poor, non-vigorous growth, shall be replaced by the Landscape Contractor. See Landscape Specifications for warranty requirements/expectations.
- Site to be 100% irrigated in all planting beds and grass area by an automatic underground Irrigation System. Irrigation as-built shall be provided to the Landscape Architect within 24 hours of irrigation install completion.
- Stake all evergreen and deciduous trees as shown in the planting detail and as per the Landscape Specifications.
- Remove stakes and guying from all trees after one year from planting.

**LANDSCAPE REQUIREMENTS**

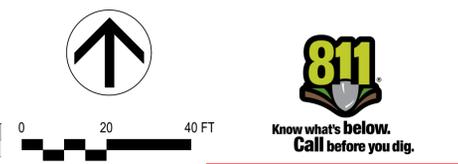
A. FRONTAGE LANDSCAPE			
<b>REQUIRED</b>	1. (1) tree per 30 LF and (1) shrub per 20 LF of street frontage		
	NW Blue Pkwy: 205 LF / 30 LF x 1 tree	=	7 street trees required
	205 LF / 20 LF x 1 shrub	=	10 shrubs required
	NW Southern Xing: 456 LF / 30 LF x 1 tree	=	15 street trees required
	456 LF / 20 LF x 1 shrub	=	23 shrubs required
<b>PROVIDED</b>	1. NW Blue Pkwy: 3 tree existing, 4 witchhazel	=	7 street trees provided
	56 inkberry, 13 anise	=	69 shrubs provided
	NW Southern Xing: 10 tree existing	=	10 street trees existing
	23 shrubs existing	=	23 shrubs existing
B. INTERIOR LANDSCAPING			
<b>REQUIRED</b>	1. (1) tree and (2) shrubs per 5,000 SF of area excluding building footprint		
	(62,330 SF - 4,477 SF of building) / 5,000 SF x 1 tree	=	12 trees required
	(62,330 SF - 4,477 SF of building) / 5,000 SF x 2 shrubs	=	23 shrubs required
<b>PROVIDED</b>	1. 8 tree existing, 3 honeylocust	=	11 trees provided
	23 shrubs existing	=	23 shrubs existing
C. PARKING LANDSCAPE			
<b>REQUIRED</b>	1. 5% of parking area to be landscape area		
	40,449 SF x 5%	=	2,022 SF of landscape area required
<b>PROVIDED</b>	1. Landscape area	=	2,500 SF of landscape area provided

**PLANT LIST - PHASE I**

Qty	Botanical Name	Common Name	Scheduled Size	Remarks
<b>Trees</b>				
3	Gleditsia triacanthos inermis 'Skyline'	Skyline Honeylocust	3" Cal, 12' Hgt.	B & B
4	Hamamelis virginiana	Witchhazel	6-8' Hgt	Specimen
<b>Shrubs</b>				
35	Abelia x chinensis 'Rose Creek'	Rose Creek Abelia	3 Gal.	
13	Forsythia x intermedia	Border Forsythia	3 Gal.	
56	Ilex glabra 'Shamrock'	Shamrock Inkberry	3 Gal.	
13	Illicium parviflorum	Yellow Anise	3 Gal.	
<b>Groundcovers</b>				
21	Echinacea purpurea	Purple Coneflower	1 Gal.	Plant 24" O.C.
96	Liriope muscari 'Big Blue'	Big Blue Liriope	1 Gal.	Plant 18" O.C.
<b>Other</b>				

**PLANT LIST - PHASE II**

Qty	Botanical Name	Common Name	Scheduled Size	Remarks
<b>Trees</b>				
<b>Shrubs</b>				
15	Abelia x chinensis 'Rose Creek'	Rose Creek Abelia	3 Gal.	
<b>Groundcovers</b>				
27	Echinacea purpurea	Purple Coneflower	1 Gal.	Plant 24" O.C.
83	Liriope muscari 'Big Blue'	Big Blue Liriope	1 Gal.	Plant 18" O.C.
<b>Other</b>				



**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review  
Release Services Department  
Lee's Summit, Missouri  
06/13/2024

**IRRIGATION SYSTEM RETROFIT**

- Existing irrigation system shall be retrofitted to include 100% cover to all newly created landscaped areas.
- Sprays and rotors shall be utilized on all sod and seeded areas.
- Drip irrigation shall be utilized on all planting beds, shrubs, trees, and groundcover.
- The Contractor shall be responsible to ensure new and existing irrigation components, and the system as a whole, are in proper working order.
- Add valves, sprays, rotors, drip, and/or replace zones as needed to achieve proper coverage as required.
- Only RainBird products shall be utilized
- Mainline shall be 1.5" CLS 200 PVC
- Lateral lines shall be 1" CLS 200 PVC
- Rain / freeze sensor shall be installed
- Prior to final completion, the Irrigation Contractor shall perform a walk-thru inspection with the Owner, or Owners Representative.



**CHICK-FIL-A**  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

**REVISION SCHEDULE**

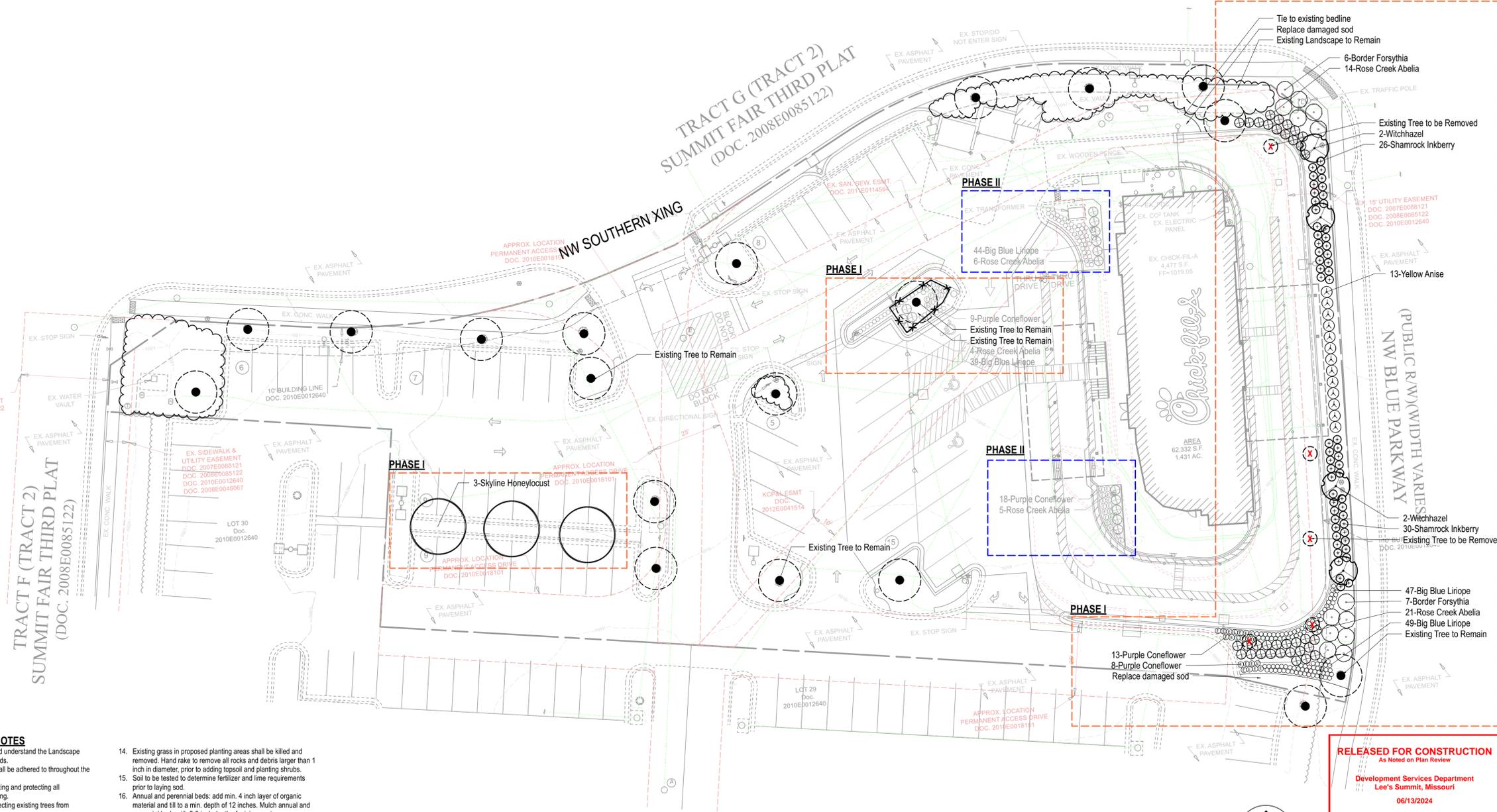
NO.	DATE	BY	DESCRIPTION
1	12/22/23		LANDSCAPE COMMENTS
2	2/23/24		NEW SITE PLAN
3	3/14/24		FOR BID
4	4/3/24		FOR CONSTRUCTION

MLD PROJECT #	2023216
PRINTED FOR	PERMIT
DATE	8/22/23
DRAWN BY	KCN

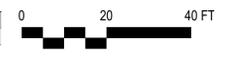
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SHEET

LANDSCAPE PLAN  
Phase II

SHEET NUMBER  
**L-100.1**



**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024



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**PLANT LIST - PHASE I**

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**PLANT LIST - PHASE II**

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  - Only RainBird products shall be utilized
  - Mainline shall be 1.5" CLS 200 PVC
  - Lateral lines shall be 1" CLS 200 PVC
  - Rain / freeze sensor shall be installed
  - Prior to final completion, the Irrigation Contractor shall perform a walk-thru inspection with the Owner, or Owners Representative.

**Chick-fil-A**  
Chick-fil-A  
5200 Buffington Road  
Atlanta, Georgia 30349-2998

**manley**  
LAND DESIGN  
Landscape Architecture  
Manley Land Design, Inc.  
51 Old Canton Street  
Alpharetta, Georgia 30009  
770.442.8171 tel



**CHICK-FIL-A**  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

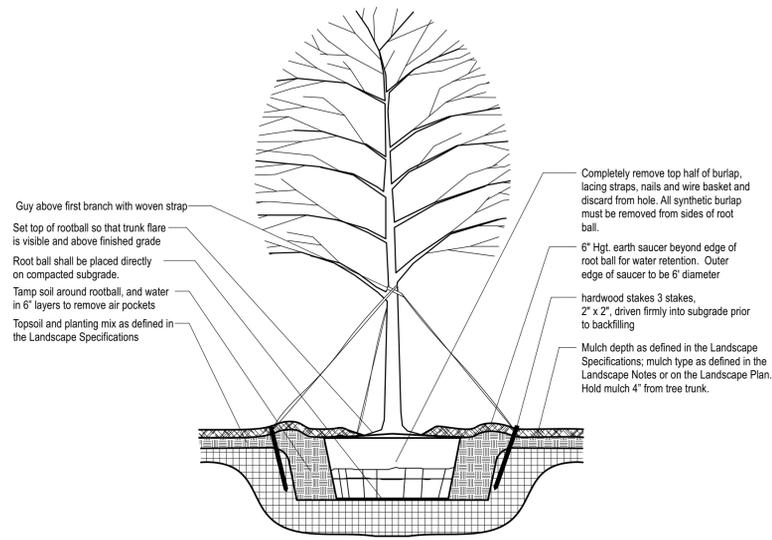
**FSU# 02859**

**REVISION SCHEDULE**

NO.	DATE	BY	DESCRIPTION
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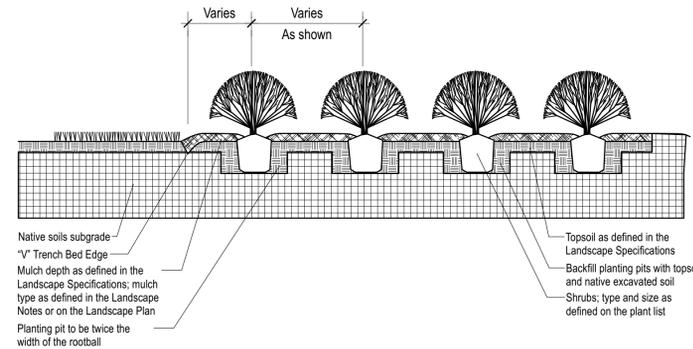
MLD PROJECT # 2023216  
PRINTED FOR PERMIT  
DATE 8/22/23  
DRAWN BY KCN

**PERMIT** Landscape Plan  
Phase I  
SHEET NUMBER  
**L-100**

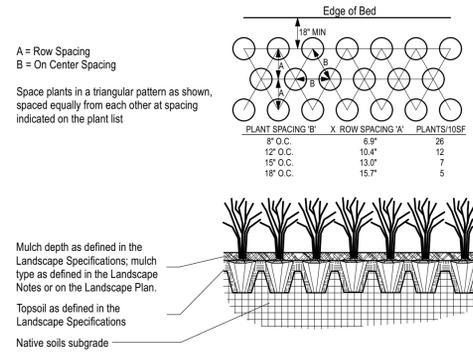


- NOTE**
- Hole to be twice the width of the rootball.
  - Do not heavily prune tree at planting. Prune only crossover limbs, broken or dead branches. Do not remove the terminal buds of branches that extend to the edge of the crown.
  - Each tree must be planted such that the trunk flare is visible at the top of the rootball. Trees where the trunk flare is not visible shall be rejected. Do not cover the top of the rootball with soil. Mulch to be held back 4" away from trunk.
  - Remove Guy Wires and Staking when warranty period has expired (after one year).

**1 TREE PLANTING & STAKING**  
SCALE: NTS

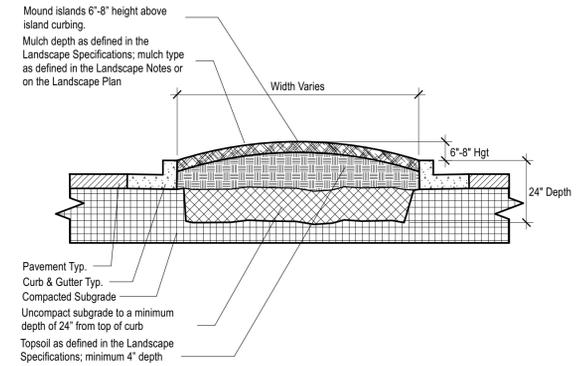


**2 SHRUB BED PLANTING DETAIL**  
SCALE: NTS



- NOTE**
- Space groundcover plants in accordance with indicated spacing listed on the plant list, or as shown on the landscape plan.
  - Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants.
  - Plant to within 24" of the trunks of trees and shrubs within planting bed and to within 18" of edge of bed.

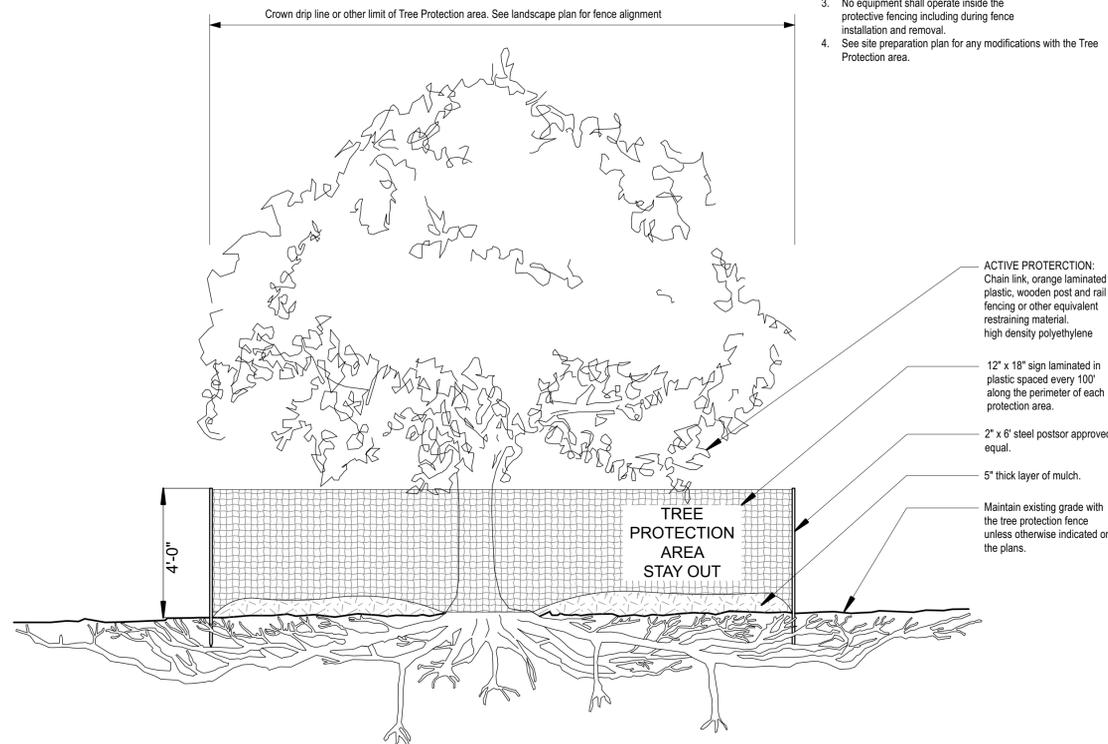
**3 GROUNDCOVER PLANTING DETAIL**  
SCALE: NTS



- NOTE**
- Clean construction debris from within landscape island areas (ie. concrete, rocks, rubble, building materials, ect), prior to installing topsoil and plant material.
  - Fracture/loosen existing subgrade to a minimum 24" depth. Remove and replace any subgrade unsuitable for planting. Once subgrade is clean of debris and loosened, add topsoil to a minimum bermed 6'-8" height above island curbing.
  - Island plant material as per tree, shrub and ground cover planting details, and as defined in the Landscape Specifications.
  - Install plant material as per tree, shrub and ground cover planting details, and as defined in the Landscape Specifications.
  - Install mulch or sod as specified on the Landscape Plan, and as defined in the Landscape Specifications.

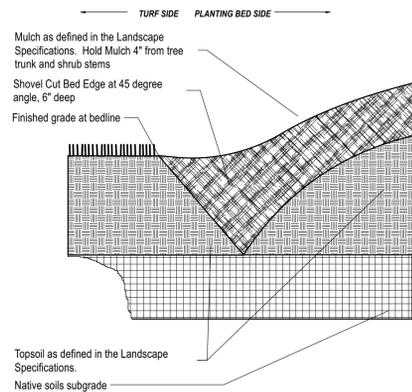
**4 PARKING ISLAND DETAIL**  
SCALE: NTS

**RELEASED FOR CONSTRUCTION**  
 As Noted on Plan Review  
 Development Services Department  
 Lee's Summit, Missouri  
 06/13/2024



- Notes:**
- See notes for additional tree protection requirements.
  - No pruning shall be performed except by approved arborist.
  - No equipment shall operate inside the protective fencing including during fence installation and removal.
  - See site preparation plan for any modifications with the Tree Protection area.

**6 TREE PROTECTION FENCING DETAIL**  
SCALE: NTS



**5 "V" TRENCH BED EDGING**  
SCALE: NTS



**Chick-fil-A**  
5200 Buffington Road  
Atlanta, Georgia 30349-2998



Manley Land Design, Inc.  
51 Old Canton Street  
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**CHICK-FIL-A**  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

NO.	DATE	BY	DESCRIPTION
3	3/14/24		FOR BID
4	4/3/24		FOR CONSTRUCTION

MLD PROJECT # 2023216  
PRINTED FOR PERMIT  
DATE 8/22/23  
DRAWN BY KCN

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**PERMIT** Landscape Details

SHEET NUMBER **L-101**

## LANDSCAPE SPECIFICATIONS

### PART 1 - GENERAL

#### DESCRIPTION

Provide trees, shrubs, ground covers, sod, and annuals/perennials as shown and specified on the landscape plan. The work includes:

1. Soil preparation.
2. Trees, shrubs, ground covers, and annuals/perennials.
3. Planting mixes.
4. Top Soil, Mulch and Planting accessories.
5. Maintenance.
6. Decorative stone.

#### Related Work:

1. Irrigation System.

#### QUALITY ASSURANCE

Plant names indicated, comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade. Provide stock true to botanical name and legibly tagged.

Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.

All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of 2 years.

Nursery Stock furnished shall be at least the minimum size indicated. Larger stock is acceptable, at no additional cost, and providing that the larger plants will not be cut back to size indicated. Provide plants indicated by two measurements so that only a maximum of 25% are of the minimum size indicated and 75% are of the maximum size indicated.

Before submitting a bid, the Contractor shall have investigated the sources of supply and be satisfied that they can supply the listed plants in the size, variety and quality as specified. Failure to take this precaution will not relieve the Contractor from their responsibility for furnishing and installing all plant materials in strict accordance with the Contract Documents without additional cost to the Owner. The Landscape Architect shall approve any substitutes of plant material, or changes in plant material size, prior to the Landscape Contractor submitting a bid.

#### DELIVER, STORAGE AND HANDLING

Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected. Spray deciduous plants in foliage with an approved "Anti-Desiccant" immediately after digging to prevent dehydration. Dig, pack, transport, and handle plants with care to ensure protection against injury. Inspection certificates required by law shall accompany each shipment invoice or order to stock. Protect all plants from drying out. If plants cannot be planted immediately upon delivery, properly protect them with soil, wet peat moss, or in a manner acceptable to the Landscape Architect. Water heeled-in plantings daily. No plant shall be bound with rope or wire in a manner that could damage or break the branches. Cover plants transported on open vehicles with a protective covering to prevent wind burn.

#### PROJECT CONDITIONS

Protect existing utilities, paving, and other facilities from damage caused by landscape operations.

A complete list of plants, including a schedule of sizes, quantities, and other requirements are shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.

The irrigation system will be installed prior to planting. Locate, protect and maintain the irrigation system during planting operations. Repair irrigation system components damaged during planting operations; at the Contractor's expense. Refer to the irrigation specifications, irrigation plan and irrigation details.

Do not begin landscape accessory work before completion of final grading or surfacing.

#### WARRANTY

Warrant plant material to remain alive, be healthy and in a vigorous condition for a period of 1 year after completion and final acceptance of entire project.

Replace, in accordance with the drawings and specifications, all plants that are dead or, are in an unhealthy, or unsightly condition, and have lost their natural shape due to dead branches, or other causes due to the Contractor's negligence. The cost of such replacement(s) is at the Contractor's expense. Warrant all replacement plants for 1 year after installation.

Warranty shall not include damage, loss of trees, plants, or ground covers caused by fires, floods, freezing rains, lightning storms, winds over 75 miles per hour, winter kill caused by extreme cold, severe winter conditions not typical of planting area, and/or acts of vandalism or negligence on a part of the Owner.

Remove and immediately replace all plants, found to be unsatisfactory during the initial planting installation.

Maintain and protect plant material, lawns, and irrigation until final acceptance is made.

#### ACCEPTANCE

Inspection of planted areas will be made by the Owner's representative.

1. Planted areas will be accepted provided all requirements, including maintenance, have been complied with and plant materials are alive and in a healthy, vigorous condition.

Upon acceptance, the Contractor shall commence the specified plant maintenance.

#### CODES, PERMITS AND FEES

Obtain any necessary permits for this Section of Work and pay any fees required for permits.

The entire installation shall fully comply with all local and state laws and ordinances, and with all established codes applicable thereto; also as depicted on the landscape and irrigation construction set.

### PART 2 - PRODUCTS

#### MATERIALS

Plants: Provide typical of their species or variety; with normal, densely developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sun scald injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces. Plants held on storage will be rejected if they show signs of growth during the storage period.

1. Balled and plants wrapped with burlap, to have firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for Nursery Stock". Cracked or mushroomed balls, or signs of circling roots are not acceptable.
2. Container- grown stock: Grown in a container for sufficient length of time for the root system to have developed to hold its soil together, firm and whole.
  - a. No plants shall be loose in the container.
  - b. Container stock shall not be pot bound.
  - c. Plants planted in rows shall be matched in form.
3. Plants larger than those specified in the plant list may be used when acceptable to the Landscape Architect.
  - a. If the use of larger plants is acceptable, increase the spread of roots or root ball in proportion to the size of the plant.
4. The height of the trees, measured from the crown of the roots to the top of the top branch, shall not be less than the minimum size designated in the plant list.
5. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.
6. Evergreen trees shall be branched to the ground or as specified in plant list.
7. Shrubs and small plants shall meet the requirements for spread and height indicated in the plant list.
  - a. The measurements for height shall be taken from the ground level to the height of the top of the plant and not the longest branch.
  - b. Single stemmed or thin plants will not be accepted.
  - c. Side branches shall be generous, well-twigged, and the plant as a whole well-bushed to the ground.
  - d. Plants shall be in a moist, vigorous condition, free from dead wood, bruises, or other root or branch injuries.

#### ACCESSORIES

Topsoil: Shall be Fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, obtained from a well-drained arable site, reasonably free from clay, lumps, coarse sands, stones, roots, sticks, and other foreign materials, with acidity range of between pH 6.0 and 6.8.

Note: All planting areas shall be cleaned of construction debris (ie. Concrete, rubble, stones, building material, etc.) prior to adding and spreading of the top soil.

1. **Sod Areas:** Spread a minimum 4" layer of top soil and rake smooth.
2. **Planting bed areas:** Spread a minimum 4" layer of top soil and rake smooth.

3. **Landscape Islands/Medians:** Fracture/loosen existing subgrade to a minimum 24" depth. Remove and replace any subgrade unsuitable for planting. Once subgrade is clean of debris and loosened, add topsoil to a minimum berm 6"-8" height above island curbing.
4. **Annual/Perennial bed areas:** Add a minimum of 4" organic matter and till to a minimum 12" depth.

Mulch: Type selected dependent on region and availability; see landscape plans for type of mulch to be used. Hold mulch 4" from tree trunks and shrub stems.

1. **Hardwood:** (color) dark brown, 6 month old well rotted double shredded native hardwood bark mulch not larger than 4" in length and ½" in width, free of wood chips and sawdust. Install minimum depth of 3".
2. **Pine Straw:** Pine straw to be fresh harvest, free of debris, bright in color. Bales to be wired and tightly bound. Needs to be dry. Install minimum depth of 3".
3. **River Rock:** (color) light gray to buff to dark brown, washed river rock, 1" – 3" in size. Install in shrub beds to an even depth of 3". Weed control barrier to be installed under all rock mulch areas. Use caution during installation not to damage plant material.
4. **Mini Nuggets:** Install to a minimum depth of 2"-3" at all locations of annual and perennial beds. Lift the stems and leaves of the annuals and carefully spread the mulch to avoid injuring the plants. Gently brush the mulch off the plants.

#### Guying/Staking:

1. **Arboret:** Green (or white) staking and guying material to be flat, woven, polypropylene material, ¾" wide 900 lb. break strength. Arboret shall be fastened to stakes in a manner which permits free movement and supports the tree.
2. **Remove Guying/Staking** after one year from planting.

**Tree Wrap:** Tree wraps should be used on young, newly planted thin-barked trees (Cherry, Crabapple, Honey Locust, Linden, Maple, Mountain Ash, Plum) that are most susceptible to sun scald/Sunburn. Standard waterproofed tree wrapping paper, 2-1½" wide, made of 2 layers of crepe Draft paper weighing not less than 30 lbs. per ream, cemented together with asphalt. Wrap the tree in the fall and leave the wrap in place throughout the winter and early spring. Tree wraps are temporary and no longer needed once trees develop corky bark.

### PART 3 – EXECUTION

#### INSPECTION

Prior to beginning work, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve top soil provided by the General Contractor and observe the site conditions under which the work is to be done. Notify the General Contractor of any unsatisfactory conditions, and work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Contractor.

#### PREPARATION

Planting shall be performed only by experienced workmen familiar with planting procedures under the supervision of a qualified supervisor.

Locate plants as indicated on the plans or as approved in the field after staking by the Landscape Contractor. If obstructions are encountered that are not shown on the drawings, do not proceed with planting operations until alternate plant locations have been selected and approved by the Landscape Architect. Spacing of plant material shall be as shown on the landscape plan.

Excavate circular plant pits with vertical sides, except for plants specifically indicated to be planted in beds. Provide shrub pits at least 12" greater than the diameter of the root system and 24" greater for trees. Depth of pit shall accommodate the root system. Provide undisturbed sub grade to hold root ball at nursery grade as shown on the drawings.

#### INSTALLATION

Set plant material in the planting pit to proper grade and alignment. Set plants upright, plumb, and faced to give the best appearance or relationship to each other or adjacent structure. Set plant material 2" – 3" above the finish grade. No filling will be permitted around trunks or stems. Backfill the pit with topsoil mix and excavated material. Do not use frozen or muddy mixtures for backfilling. Form a ring of soil around the edge of each planting pit to retain water.

After balled and wrapped in burlap plants are set, muddle planting soil mixture around bases of balls and fill all voids.

1. **Remove all burlap, ropes, and wires** from the top 1/3 of the root ball

Space ground cover plants in accordance with indicated dimensions. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. Plant to within 24" of the trunks of trees and shrubs within planting bed and to within 18" of edge of bed.

#### Mulching:

1. Mulch tree and shrub planting pits and shrub beds with required mulching material (see landscape plan for mulch type); depth of mulch as noted above. **Hold mulch back 4" away from tree trunks and shrub stems.** Thoroughly water mulched areas. After watering, rake mulch to provide a uniform finished surface.

Decorative Stone: (where indicated on landscape plan)

1. Install weed control barrier over sub-grade prior to installing stone. Lap 6" on all sides.
2. Place stone without damaging weed barrier.
3. Arrange stones for best appearance and to cover all weed barrier fabric.

#### Wrapping, guying, staking:

1. Inspect trees for injury to trunks, evidence of insect infestation, and improper pruning before wrapping.
2. **Wrapping:**
  - a. Wrap trunks of all young newly planted trees known to have thin bark. Wrap spirally from bottom to top with specified tree wrap and secure in place.
  - b. **Overlap ½ the width of the tree wrap strip and cover the trunk from the ground to the height of the second branch.**
  - c. Secure tree wrap in place with twine wound spirally downward in the opposite direction, tied around the tree in at least 3 places in addition to the top and bottom.
  - d. Wrap the trees in the fall and leave the wrap in place throughout the winter and early spring.
  - e. Tree wraps are temporary and no longer needed once the trees develop corky bark.
3. **Staking/Guying:**
  - a. Stake/guy all trees immediately after lawn sodding operations and prior to acceptance.
  - b. Stake deciduous trees 2" caliper and less. Stake evergreen trees under 7'-0" tall.
    1. Stakes are placed in line with prevailing wind direction and driven into undisturbed soil.
    2. Ties are attached to the tree, usually at the lowest branch.
  - c. Guy deciduous trees over 2" caliper. Guy evergreen trees 7'-0" tall and over.
    1. Guy wires to be attached to three stakes driven into undisturbed soil, with one stake placed in the direction of the prevailing wind.
    2. Ties are attached to the tree as high as practical.
    3. The axis of the stake should be at 90 degree angle to the axis on the pull of the guy wire.
4. **Remove all guying and staking after one year from planting.**

#### Pruning:

1. Prune deciduous trees and evergreens only to remove broken or damaged branches.

#### WORKMANSHIP

During landscape/irrigation installation operations, all areas shall be kept neat and clean. Precautions shall be taken to avoid damage to existing structures. All work shall be performed in a safe manner to the operators, the occupants and any pedestrians.

Upon completion of installation operations, all excess materials, equipment, debris and waste material shall be cleaned up and removed from the site; unless provisions have been granted by the owner to use on-site trash receptacles. Sweep parking and walks clean of dirt and debris. Remove all plant tags and other debris from lawns and planting areas.

Any damage to the landscape, the structure, or the irrigation system caused by the landscape contractor shall be repaired by the landscape contractor without charge to the owner.

#### MAINTENANCE

Contractor shall provide maintenance until work has been accepted by the Owner's Representative.

Maintenance shall include mowing, fertilizing, mulching, pruning, cultivation, weeding, watering, and application of appropriate insecticides and fungicides necessary to maintain plants and lawns free of insects and disease.

1. Re-set settled plants to proper grade and position. Restore planting saucer and adjacent material and remove dead material.
2. repair guy wires and stakes as required. Remove all stakes and guy wires after 1 year.
3. Correct defective work as soon as possible after deficiencies become apparent and weather and season permit.
4. Water trees, plants and ground cover beds within the first 24 hours of initial planting, and not less than twice per week until final acceptance.

## LANDSCAPE MAINTENANCE SPECIFICATIONS

The Contractor shall provide as a separate bid, maintenance for a period of **1 year** after final acceptance of the project landscaping. The Contractor must be able to provide continued maintenance if requested by the Owner or provide the name of a reputable landscape contractor who can provide maintenance.

#### STANDARDS

All landscape maintenance services shall be performed by trained personnel using current, acceptable horticultural practices.

All work shall be performed in a manner that maintains the original intent of the landscape design.

All chemical applications shall be performed in accordance with current county, state and federal laws, using EPA registered materials and methods of application. These applications shall be performed under the supervision of a Licensed Certified applicator.

#### APPROVALS

Any work performed in addition to that which is outlined in the contract shall only be done upon written approval by the Owner's Representative (General Manager of the restaurant).

All seasonal color selections shall be approved by the General Manager prior to ordering and installation.

#### SOIL TESTING

The maintenance contractor shall perform soil tests as needed to identify imbalances or deficiencies causing plant material decline. The owner shall be notified of the recommendation for approval, and the necessary corrections made at an additional cost to the owner.

Acceptable Soil Test Results

	Landscape Trees and Shrubs	Turf
<b>pH Range</b>	5.0-7.0	6.0-7.0
<b>Organic Matter</b>	>1.5%	>2.5%
<b>Magnesium (Mg)</b>	100 lbs./acre	100 lbs./acre
<b>Phosphorus (P2O5)</b>	150 lbs./acre	150 lbs./acre
<b>Potassium (K2O)</b>	120 lbs./acre	120 lbs./acre
<b>Soluble salts</b>	Not to exceed 900ppm/1.9 mmhos/cm	Not to exceed 750ppm/0.75 mmhos/cm
<b>Conductivity</b>	in soil; not to exceed 1400 ppm/2.5 mmhos/cm in high organic mix	in soil; not to exceed 2000 ppm/2.0 mmhos/cm in high organic mix

For unusual soil conditions, the following optional tests are recommended with levels not to exceed:

Boron	3 pounds per acre
Manganese	50 pounds per acre
Potassium (K2O)	450 pounds per acre
Sodium	20 pounds per acre

#### WORKMANSHIP

During landscape maintenance operations, all areas shall be kept neat and clean. Precautions shall be taken to avoid damage to existing structures. All work shall be performed in a safe manner to the operators, the occupants and any pedestrians.

Upon completion of maintenance operations, all debris and waste material shall be cleaned up and removed from the site, unless provisions have been granted by the owner to use on-site trash receptacles.

Any damage to the landscape, the structure, or the irrigation system caused by the maintenance contractor, shall be repaired by the maintenance contractor without charge to the owner.

### TURF

#### GENERAL CLEAN UP

Prior to mowing, all trash, sticks, and other unwanted debris shall be removed from lawns, plant beds, and paved areas.

#### MOWING

Warm season grasses (i.e. Bermuda grass) shall be maintained at a height of 1" to 2" during the growing season.

Cool season grasses, including blue grass, tall fescue, perennial ryegrass, etc., shall be maintained at a height of 2" to 3" in spring and fall. From June through September, mowing height shall be maintained at no less than 3".

The mowing operation includes trimming around all obstacles, raking excessive grass clippings and removing debris from walks, curbs and parking areas. Caution: Weed eaters should NOT be used around trees because of potential damage to the bark.

#### EDGING

Edging of all sidewalks, curbs and other paved areas shall be performed once every other mowing. Debris from the edging operations shall be removed and the areas swept clean. Caution shall be used to avoid flying debris.

#### LIMING & FERTILIZING

A soil test shall be taken to determine whether an application of limestone in late fall is necessary. If limestone is required, the landscape contractor shall specify the rate, obtain approval from the owner and apply it at an additional cost. A unit price for liming of turf shall accompany the bid based on a rate of 50 pounds per 1000 square feet.

Fertilizer shall be applied in areas based on the existing turf species.

#### LAWN WEED CONTROL: HERBICIDES

Selection and proper use of herbicides shall be the landscape contractor's responsibility. All chemical applications shall be performed under the supervision of a Licensed Certified Applicator. **Read the label prior to applying any chemical.**

#### INSECT & DISEASE CONTROL FOR TURF

The contractor shall be responsible for monitoring the site conditions on each visit to determine if any insect pest or disease problems exist. The contractor shall identify the insect pest or disease, as well as the host plant, and then consult the most current edition of the Cooperative Extension Service's "Commercial Insecticide Recommendation for Turf" for control. The licensed applicator shall be familiar with the label provided for the selected product prior to application.

Inspection and treatment to control insect pests shall be included in the contract price.

### TREES, SHRUBS, & GROUND COVER

#### PRUNING

All ornamental trees, shrubs and ground cover shall be pruned when appropriate to remove dead or damaged branches, develop the natural shapes. **Do not shear trees or shrubs.** If previous maintenance practice has been to shear and ball, then a natural shape will be restored gradually.

#### Pruning Guidelines:

1. Prune those that flower before the end of June immediately after flowering. Flower buds develop during the previous growing season. Fall, winter or spring pruning would reduce the spring flowering display.
2. Prune those that flower in summer or autumn in winter or spring before new growth begins, since these plants develop flowers on new growth.
3. Delay pruning plants grown for ornamental fruits, such as cotoneasters, pyracanthas and viburnums.
4. Hollies and other evergreens may be pruned during winter in order to use their branches for seasonal decoration. However, severe pruning of evergreens should be done in early spring only.
5. Broadleaf evergreen shrubs shall be hand-pruned to maintain their natural appearance after the new growth hardens off.
6. Hedges or shrubs that require shearing to maintain a formal appearance shall be pruned as required. Dead wood shall be removed from sheared plants before the first shearing of the season.
7. Conifers shall be pruned, if required, according to their genus.
  - A. Yews, junipers, hemlocks, arborvitae, and false-cypress may be pruned after new growth has hardened off in late summer. If severe pruning is necessary, it must be done in early spring.
  - B. Firs and spruces may be lightly pruned in late summer, fall, or winter after completing growth. Leave side buds. Never cut central leader.
  - C. Pines may be lightly pruned in early June by reducing candles.
8. Groundcover shall be edged and pruned as needed to contain it within its borders.

9. Thinning: Remove branches and water sprouts by cutting them back to their point of origin on parent stems. This method results in a more open plant, without stimulating excessive growth. Thinning is used on crepe myrtle, lilacs, viburnums, smoke bush,etc.
10. Renewal pruning: Remove oldest branches of shrub at ground, leaving the younger, more vigorous branches. Also remove weak stems. On overgrown plants, this method may be best done over a three-year period. Renewal pruning may be used on abelia, forsythia, deutzia, spirea, etc.

Plants overhanging passageways and parking areas and damaged plants shall be pruned as needed.

Shade trees that cannot be adequately pruned from the ground shall not be included in the Maintenance Contract. A certified arborist under a separate contract shall perform this type of work.

#### SPRING CLEANUP

Plant beds shall receive a general cleanup before fertilizing and mulching. Cleanup includes removing debris and trash from beds and cutting back herbaceous perennials left standing through winter, e.g. ornamental grasses, Sedum Autumn Joy.

#### FERTILIZING

For trees, the rate of fertilization depends on the tree species, tree vigor, area available for fertilization, and growth stage of the tree. Mature specimens benefit from fertilization every 3 to 4 years; younger trees shall be fertilized more often during rapid growth stages.

The current recommendation is based on the rate of 1000 square feet of area under the tree to be fertilized. For deciduous trees, 2 to 6 pounds of Nitrogen per 1000 square feet, for narrow-leaf evergreens, 1 to 4 pounds of Nitrogen per 1000 square feet; for broadleaf evergreens, 1 to 3 pounds of Nitrogen per 1000 square feet.

Shrubs and groundcover shall be top-dressed with compost 1" deep, or fertilized once in March with 10-6-4 analysis fertilizer at the rate of 3 pounds per 100 square feet of bed area. Efficacious material shall be fertilized with an efficacious fertilizer at the manufacturer's recommendation rate. If plants are growing poorly, a soil sample should be taken.

#### MULCHING

Annually, all tree and shrub beds will be prepared and mulched, to a minimum depth of 3" with quality mulch to match existing. Bed preparation shall include removing all weeds, cleaning up said bed, edging and cultivating decayed mulch into the soil. Debris from edging is to be removed from beds where applicable. If deemed necessary, a pre-emergent herbicide may be applied to the soil to inhibit the growth of future weeds.

Organically maintained gardens shall not receive any pre-emergent herbicides. Mulch in excess of 4" will be removed from the bed areas. SPECIAL CARE shall be taken in the mulching operation not to over-mulch or cover the base of trees and shrubs. This can be detrimental to the health of the plants.

#### WEEDING

All beds shall be weeded on a continuous basis throughout the growing season to maintain a neat appearance at all times.

Pre-emergent (soil-applied) and post-emergent (foliar-applied) herbicides shall be used where and when applicable and in accordance with the product's label.

#### INSECT & DISEASE CONTROL: TREES, SHRUBS & GROUNDCOVER

The maintenance contractor shall be responsible for monitoring the landscape site on a regular basis. The monitoring frequency shall be monthly except for growing season, which will be every other week. Trained personnel shall monitor for plant damaging insect activity, plant pathogenic diseases and potential cultural problems in the landscape. The pest or cultural problem will be identified under the supervision of the contractor.

For plant damaging insects and mites identified in the landscape, the contractor shall consult and follow the recommendations of the most current edition of the state Cooperative Service publication on insect control on landscape plant material.

Plant pathogenic disease problems identified by the contractor that can be resolved by pruning or physical removal of damaged plant parts will be performed as part of the contract. For an additional charge, plant pathogenic diseases that can be resolved through properly timed applications of fungicides shall be made when the owner authorizes it.

If the contractor notes an especially insect-or disease-prone plant species in the landscape, he/she will suggest replacement with a more pest-resistant cultivar or species that is consistent with the intent of the landscape design.

NOTE: For identification of plant-damaging insects and mites, a reference textbook that can be used is *Insects that Feed on Trees and Shrubs* by Johnson and Lyon, Comstock Publishing Associates. For plant pathogenic diseases, two references are suggested: *Scouting and Controlling Woody Ornamental Diseases in Landscapes and Nurseries*, authored by Gary Moorman, published by Penn State College of Agricultural Sciences, and *Diseases of Trees and Shrubs* by Sinclair and Lyon, published by Comstock Publishing Press.

#### TRASH REMOVAL

The maintenance contractor shall remove trash from all shrub and groundcover beds with each visit.

#### LEAF REMOVAL

All fallen leaves shall be removed from the site in November and once in December. If requested by the owner, the maintenance contractor, at an additional cost to the owner shall perform supplemental leaf removals.

#### WINTER CLEAN-UP

The project shall receive a general clean-up once during each of the winter months, i.e., January, February, and March.

#### Clean-up includes:

- Cleaning curbs and parking areas
- Removing all trash and unwanted debris
- Turning mulch where necessary
- Inspection of grounds

### SEASONAL COLOR: PERENNIALS, ANNUALS, AND BULBS

The installation of perennials, annuals, and bulbs, unless specified herein, shall be reviewed with the owner, and, if accepted, installed and billed to the owner.

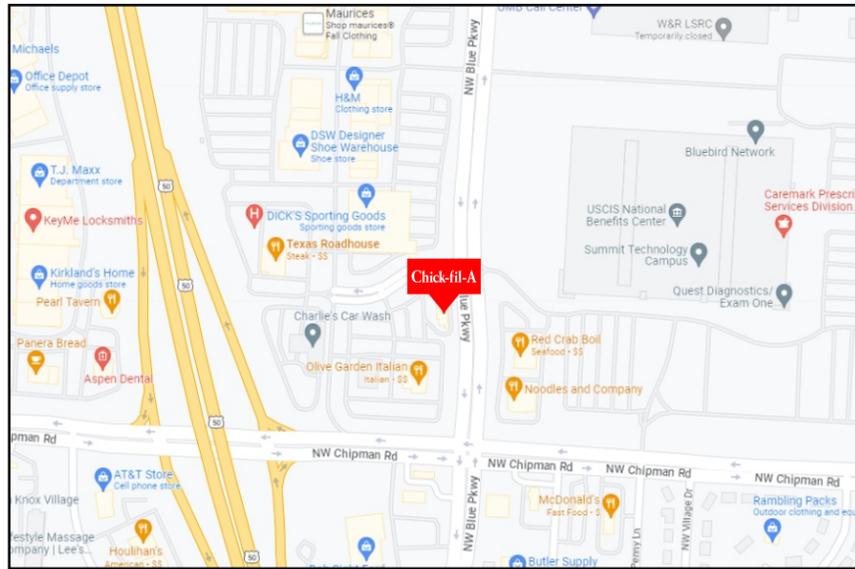
#### SEASONAL COLOR MAINTENANCE

##### Perennialization of Bulbs:

1. After flowering, cut off spent flower heads.
2. Allow leaves of daffodils and hyacinths to remain for six weeks after flowers have faded. Cut off at base.
3. Allow leaves of other bulbs to yellow naturally and then cut off at base.
4. Apply fertilizer after flowering in spring, possibly again in fall. Apply 10-10-10 at the rate of 2 pounds per 1000 square feet, or top-dress with compost 1" deep. Fall fertilization with a bulb fertilizer or mulching with 1" of compost is optional.

##### Flower Rotation:

1. Bulbs: Remove the entire plant and bulb after flowers have faded or at the direction of the owner, and install new plants if included in contract.
2. Summer Annuals or Fall Plants:
  - a. Dead heading: Pinch and remove dead flowers on annuals as necessary.
  - b. Fertilizing Summer Annuals: Fertilize using one or two methods: Apply a slow-release fertilizer in May following manufacturer's recommendations. A booster such as 10-10-10 may be necessary in late summer. Or, apply liquid fertilizations of 20-20-20 water-soluble fertilizers, not to exceed 2 pounds of 20-20-20 per 100 gallons of water, monthly, or mulch with compost 1" deep.
  - c. Removal: If fall plants are to be installed, summer annuals shall be left in the ground



VICINITY MAP

N.T.S.



AERIAL VIEW



KRISTEN HAMILTON - 678-725-8852

[KHAMILTON@chandler signs.com](mailto:KHAMILTON@chandler signs.com)

TERRI BROWN - 682-204-6687

[TBROWN@chandler signs.com](mailto:TBROWN@chandler signs.com)

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As Noted on Plan Review

Development Services Department  
Lee's Summit, Missouri

06/13/2024

<b>Design #</b>	
0637033Ar3	
<b>Sheet</b>	1 of 27
<b>Client</b>	
#2859	
<b>Address</b>	
690 NW Blue Pkwy, Lee's Summit, MO	
<b>Account Rep.</b>	KRISTEN HAMILTON TERRI BROWN
<b>Designer</b>	LEAH LANSFORD
<b>Date</b>	9/29/23
<b>Approval / Date</b>	
<b>Client</b>	
<b>Sales</b>	
<b>Estimating</b>	
<b>Art</b>	
<b>Engineering</b>	
<b>Landlord</b>	
<b>Revision/Date</b>	

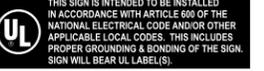
R1(12:22:23)LL: CHANGED SIZE OF PANELS ON THE STOP/DNE  
R2(1/16/24)LL: ADDED STAMPED ENGINEERING  
CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT OF REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4  
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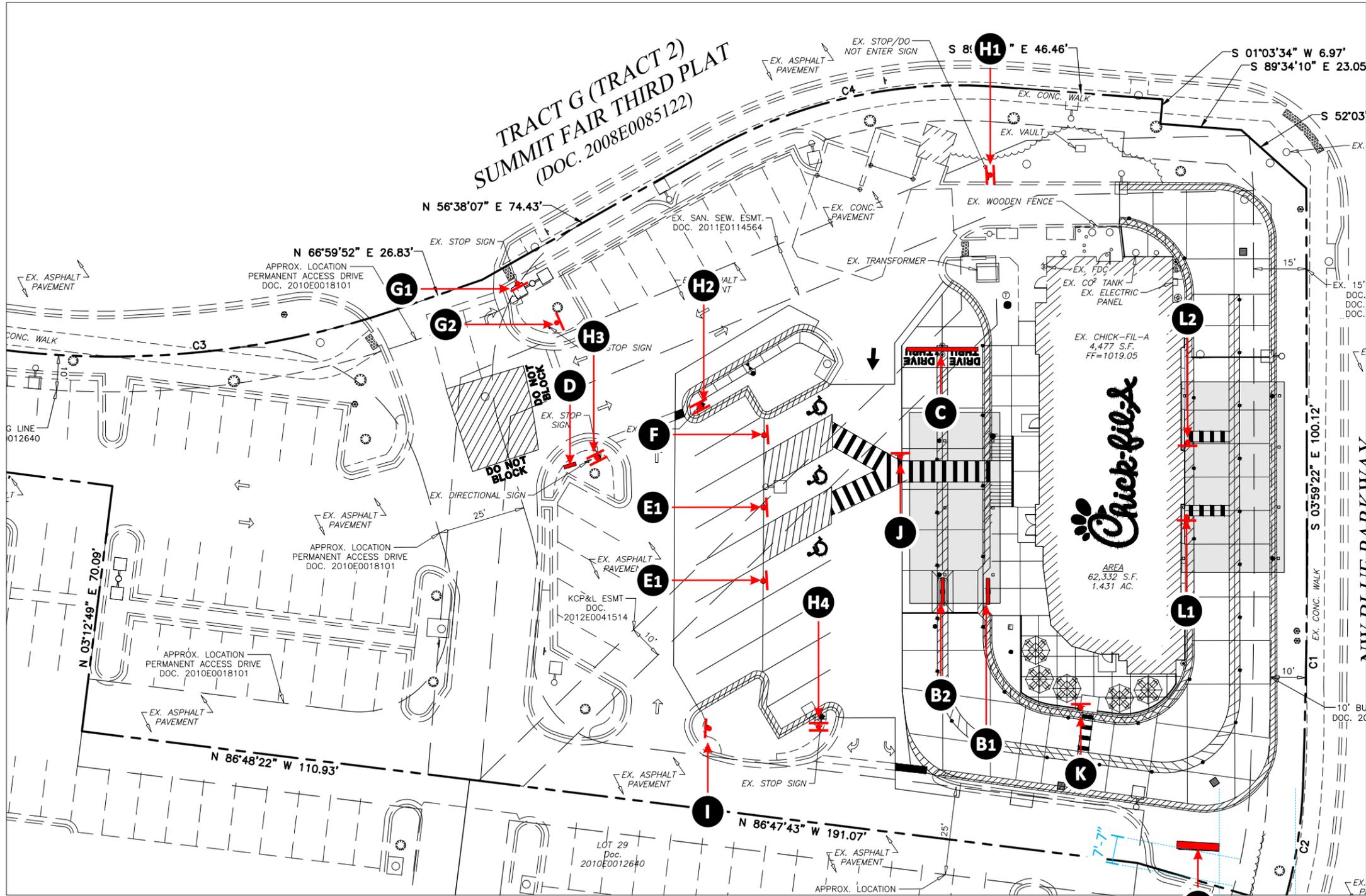
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



AERIAL VIEW



**SITE PLAN 1**

SCALE: 1/32" = 1'-0"

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SIGN I-D LETTER	FACE A	FACE B
A		
B1 B2		N/A
C		
D		
E1 E2		N/A
F		N/A
G1 G2		N/A
H1-4		
I		N/A

**PORTABLE BASES**

SIGN I-D LETTER	FACE A	FACE B
J		N/A
K		N/A
L1 L2		N/A

**Design #**  
0637033Ar3

**Sheet** 2 of 27

**Client**  
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Lees Summit, MO

**Account Rep.** KRISTEN HAMILTON  
TERRI BROWN

**Designer** LEAH LANSFORD

**Date** 9/29/23

**Approval / Date**

**Client**

**Sales**

**Estimating**

**Engineering**

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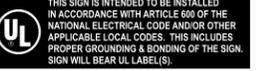
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



**SITE PLAN/KEY**



**SPECS:**

FABRICATED ALUM. FRAME WITH ALUMINUM CLADDING AND ALUM. FIN / FILLER PAINTED MATTHEWS #74155 DARK BRONZE, SEMI-GLOSS FINISH.

**MAIN ID LOGO FACES**

CABINET AND RETAINERS PAINTED MATTHEWS #74155 DARK BRONZE, SEMI-GLOSS. WHITE PLEX FACES WITH 3M #3630-53 CARDINAL RED TRANSLUCENT VINYL APPLIED 1ST SURFACE. INTERNALLY ILLUMINATED WITH 7100K WHITE LEDS AS REQUIRED.

**READER BOARD DISPLAY**

.080" ALUM. FACE PAN PANEL WITH ROUTED OUT OPENING FOR READER BOARD AND R.O.S.T. COPY READING "CLOSED SUNDAY", WITH HINGED LOCKABLE F-TRACK VANDAL COVER PAINTED MATTHEWS #74155 DARK BRONZE, SEMI-GLOSS. CLEAR LEXAN FACE, SECURED TO FACE OF ALUM. PANEL. BACKED WITH 3/16" WHITE PLEX. TRACK TO ACCOMMODATE THREE ( 3 ) LINES OF CHANGEABLE 6" COPY BLACK COMMERCIAL SET OF 334 LETTERS. INCLUDE CHANGER ARM.

INTERNALLY ILLUMINATED SAME AS ABOVE.

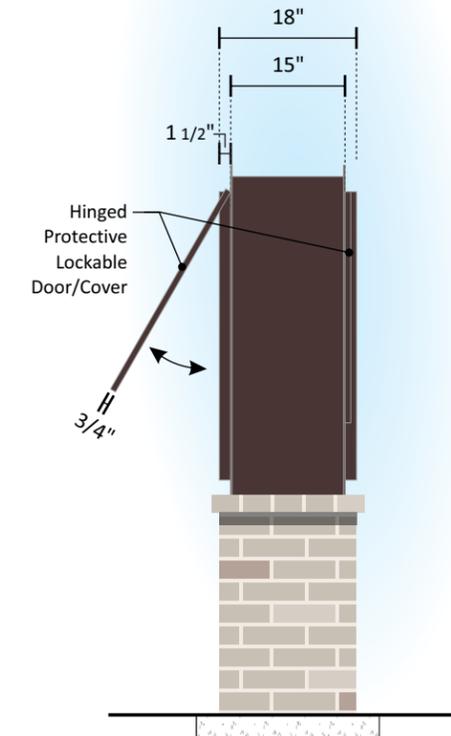
**FOUNDATION SYSTEM**

ONE ( 1 ) 4 1/2" O.D. x .237" WALL STEEL SUPPORT  
ONE ( 1 ) 24" x 5'-0" DEEP CONCRETE PIER.

FOOTING AND 1" x 1" x .125" ALUM. FABRICATED BASE FRAME WITH 1/2" CEMENT BOARD.

MASONRY / BRICK: **BY G.C.**  
THE MONUMENT BRICK MATERIAL AND DESIGN SHALL MATCH THE BUILDING MATERIAL AND MORTAR FINISH.

**PRIMARY ELECTRIC RUN THRU NEC APPROVED WEATHER-PROOF CONDUIT - COORDINATE PRIOR TO CONCRETE FOUNDATION / PAD POUR.**



**END VIEW**



**EXISTING CONDITIONS**

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**A D/F MONUMENT**

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

ONE ( 1 ) REMOVAL REQUIRED - MANUFACTURE AND INSTALL

60 SQ. FT.

CSI TO REMOVE AND DISCARD EXISTING MONUMENT CABINET.

G.C. TO REMOVE AND DISCARD BASE.

NEW DESIGN PENDING LANDLORD APPROVAL

**CSI TO PROVIDE NEW STEEL AND FOUNDATION.**



**OPPOSITE VIEW**

**Design #**  
0637033Ar3

**Sheet** 3 of 27

**Client**  
#2859

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Lees Summit, MO

**Account Rep.** KRISTEN HAMILTON  
TERRI BROWN

**Designer** LEAH LANSFORD

**Date** 9/29/23

**Approval / Date**

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**CHANDLER SIGNS**

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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**

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**Chick-fil-A**

**A**



11545 W. BERNARDO COURT  
SUITE 201, SAN DIEGO, CA 92127  
PROJECTMANAGER@SULLAWAYENG.COM  
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: CHICK-FIL-A - MONUMENT SIGN - 690 NW BLUE PKWY, LEES SUMMIT, MO  
PROJECT #: 43787A  
CLIENT: CHANDLER SIGNS

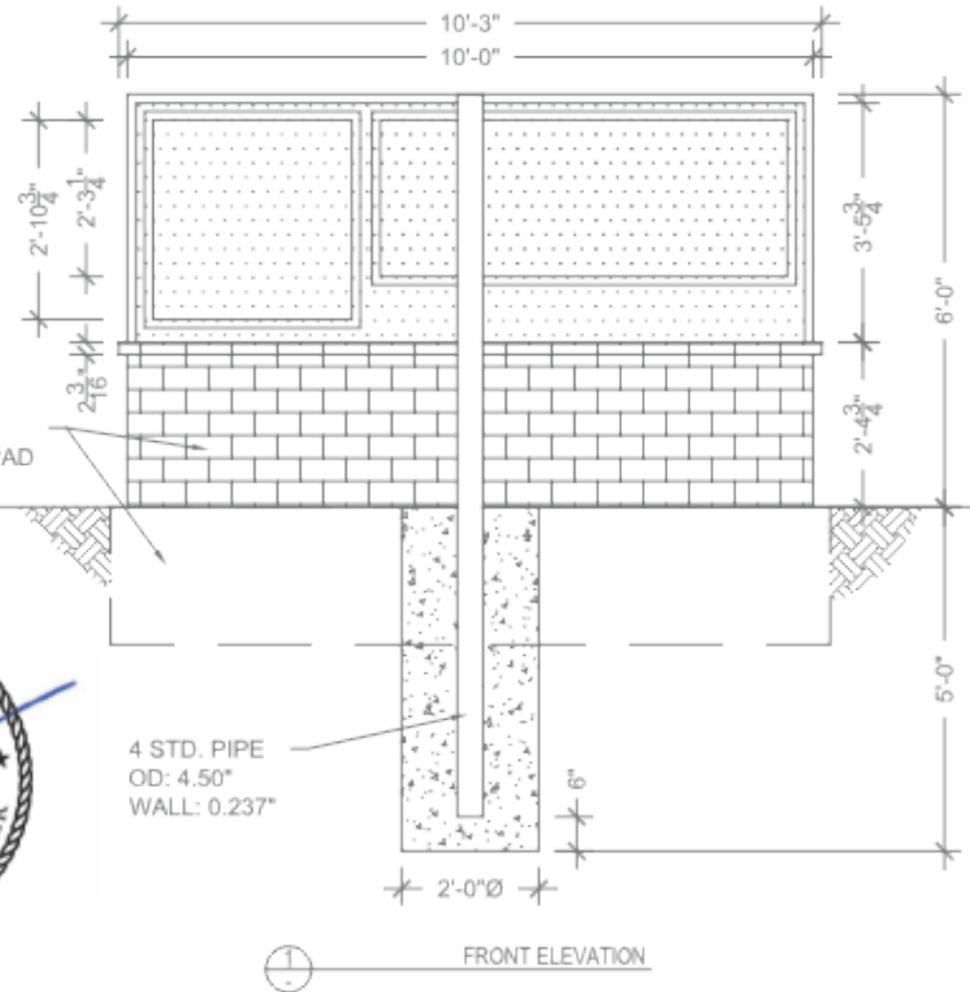
DATE: 1-9-2024  
ENGINEER: JD  
LAST REVISED:



11545 W. Bernardo Court, San Diego, CA 92127  
projectmanager@sullawayeng.com  
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: CHICK-FIL-A 2859  
PROJ. NO.: 43787A  
CLIENT: CHANDLER SIGNS

DATE: 1/9/24  
ENGINEER: JD



1-9-24

GENERAL NOTES

- DESIGN CODE: IBC 2018
- DESIGN LOADS: ASCE 7-16
- WIND VELOCITY: 110 MPH EXPOSURE C
- CONCRETE 2500 PSI MIN.
- PIPE STEEL ASTM A53, Fy= 35 KSI MIN.
- PROVIDE PROTECTION AGAINST DISSIMILAR METALS USING ANTI-CORROSIVE PAINT OR NEOPRENE GASKETS.
- LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
- ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION.

units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16

$F=q_z \cdot G \cdot C_f \cdot A_r$  with  $q_z = 0.00256 K_z K_{zt} K_d V^2$  (29.3.2 & 29.4)  
 $C_f = 1.417$  (Fig. 29.3-1)  $1.00$   $0$  max. height= 6.00  
 $K_{zt} = 1.0$  (26.8.2) (=1.0 unless unusual landscape)  $s = 6.00$   
 $K_z =$  from table 28.3-1 Exposure= c  
 $K_d = 0.85$  for signs (table 26.6-1)  
 $V = 110$  mph  
 $G = 0.85$  (26.9) weight= 0.600 kips  
 $s/h = 1.000$   $M_{DL} = 0.00$  k-ft  
 $B/s = 1.67$

Pole Loads	structure component	height at section c.g.	$K_z$	$q_z$	pressure $q_z \cdot G \cdot C_f$	$A_r$	shear	Wind Moment $M_w$	
1		1.1	0.850	22.4	26.95	22.1	597	660	
2		2.3046875	0.850	22.4	26.95	1.9	50	116	
3		4.19791667	0.850	22.4	26.95	36.0	971	4077	
							sums:	1618	4.85 (M <sub>w</sub> ) k-ft arm= 3.0
							for s/h=1, add 10% (asce fig. 29.4-1):	x 1.10	5.34
							$P_u = 0.72$ kip	$M = 5.34$ k-ft	$M = \sqrt{M_{DL}^2 + M_w^2}$
							$M_u = \sqrt{1.2M_{DL}^2 + 1.0M_w^2} = 5.34$ k-ft		

Pole Design section; pipe

$M_u \leq \phi M_n$  with  $M_n = f_y Z$   $f_y = 35$  ksi  $\phi = 0.9$

H	$M_u$ (k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at grade	5.3	2.03	3	0.216	2.2	4 STD. PIPE, Mn= 10.6 k-ft

Footing Design footprint: round

$\omega = 1.3$	IBC 1606.3.2	IBC Table 1806.2, sections 1806.3.4, 1807.3.2	$S = (1.3x2x)$
$P = 1.26$ kip		$S1 = S \times d / 3$	$A = 2.34 \times P / (S1 \times b)$ $S = 400$
$S1 = 586$		$d = 0.5xA (1 + (1+4.36x h/A)^{.5})$	IBC 1807.3.2.1
$A = 2.52$			

footing: 2' - 0" dia. 4' - 5" deep  
USE 5' DEEP

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Design #

0637033Ar3

Sheet 4 of 27

Client

#2859

Address

690 NW Blue Pkwy,  
Lees Summit, MO

Account Rep. KRISTEN HAMILTON  
TERRI BROWN

Designer LEAH LANSFORD

Date 9/29/23

Approval / Date

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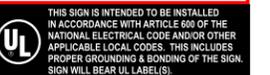
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FINAL ELECTRICAL CONNECTION BY CUSTOMER



A



11545 W. Bernardo Court, San Diego, CA 92127  
 projectmanager@sullawayeng.com  
 Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: CHICK-FIL-A 2859  
 PROJ. NO.: 43787A  
 CLIENT: CHANDLER SIGNS

DATE: 1/9/24  
 ENGINEER: JD

v5.5

units; pounds, feet unless noted otherwise

### Check Buckling for Round HSS Section

#### Pole Design-AISC

section; pipe<=12"

weight= 0.6 kips

$F_y = 35$ ksi	$= 0.9$	$E = 29,000$ ksi	
H	$M_u$ (k-ft)	Size(in)	t (in)
at grade	5.34	4.5	0.220
			Z
			3
			r = 1.52
			A = 2.96
			h (L) = 6
			spec wt= 0.289 kcf
			signage wt; 0.600 k
			pipe weight 0.065 k
			P = 0.665 k
			$P_r = 0.80$ k
D/t = 20.4			
KL/r = 95.0			
K = 2		$F_{cr} = 22.39$	for $KL/r < \sqrt{E/f_y}$
			AISC Chap. E3
$F_e = 32.8$ ksi (E3-4)		$F_{cr} = 28.74$	for $KL/r > \sqrt{E/f_y}$
$4.71\sqrt{E/f_y} = 137.9$		use $F_{cr} = 22.39$	
for $D/t < 0.07 E/F_y$ section is compact		$0.07 E/F_y = 58$	
for $D/t < 0.31 E/F_y$ section is non-compact		$0.31 E/F_y = 257$	
Section is <b>compact</b>			
$P_n = F_{cr} A_g = 66.3$ k		$P_c = \phi P_n = 59.7$ k	
$M_n = (0.021E/(D/t) + F_y)S = 16.6$ k (non-compact)			(F8-2)
$M_n = F_y Z = 11.8$ k-ft (compact)			
$M_n = F_{cr} S = 5.6$ k-ft (slender - slender sections NOT USED)			
use $M_n = 11.8$ k-ft		$P_u/\phi P_n = 0.01337$	
$M_c = \phi M_n = 10.6$ k-ft		$M_u/\phi M_n = 0.50341$	
$P_r/P_c = 0.0134$			AISC Chap. H1
$P_r/2P_c = 0.0067$			
$P_r/P_c + 8/9 * M_r/M_c = 0.461$			
For $P_r/P_c < 0.2$ ; $P_r/2P_c + M_r/M_c = 0.510$			
use <b>0.51</b>			

#### Round Pipe Torsion Capacity

Pipe	D= 4.5 in		
	t= 0.22041 in	E= 29 x10e6 psi	
	L= 40 ft		
	J= 14		
	C= 6 in <sup>3</sup>	$C = 2J/d$	$J = \pi/32(d^4 - (d-2t)^4)$
$T_n = F_{cr} C$		$\phi = 0.9$	AISC H3
$F_{cr} = 1.23E / (\sqrt{L/D}(D/t)^{1.25})$		$F_{cr} = 79.6$ ksi	max; $F_{cr} = 188.6$ ksi
$F_{cr} = 0.6E / (D/t)^{1.5}$		$F_{cr} = 188.6$ ksi	
$F_{cr} < 0.6F_y$		$0.6F_y = 21$ ksi	$F_{cr} = 21.0$ ksi
Tu = 3.2 k-ft			
$\phi T_n = 114$ k-in		10 k-ft	$(T_u/\phi T_n)^2 = 0.115$
$P_u/\phi P_n + M_u/\phi M_n + (T_u/\phi T_n)^2 = 0.63$			ok

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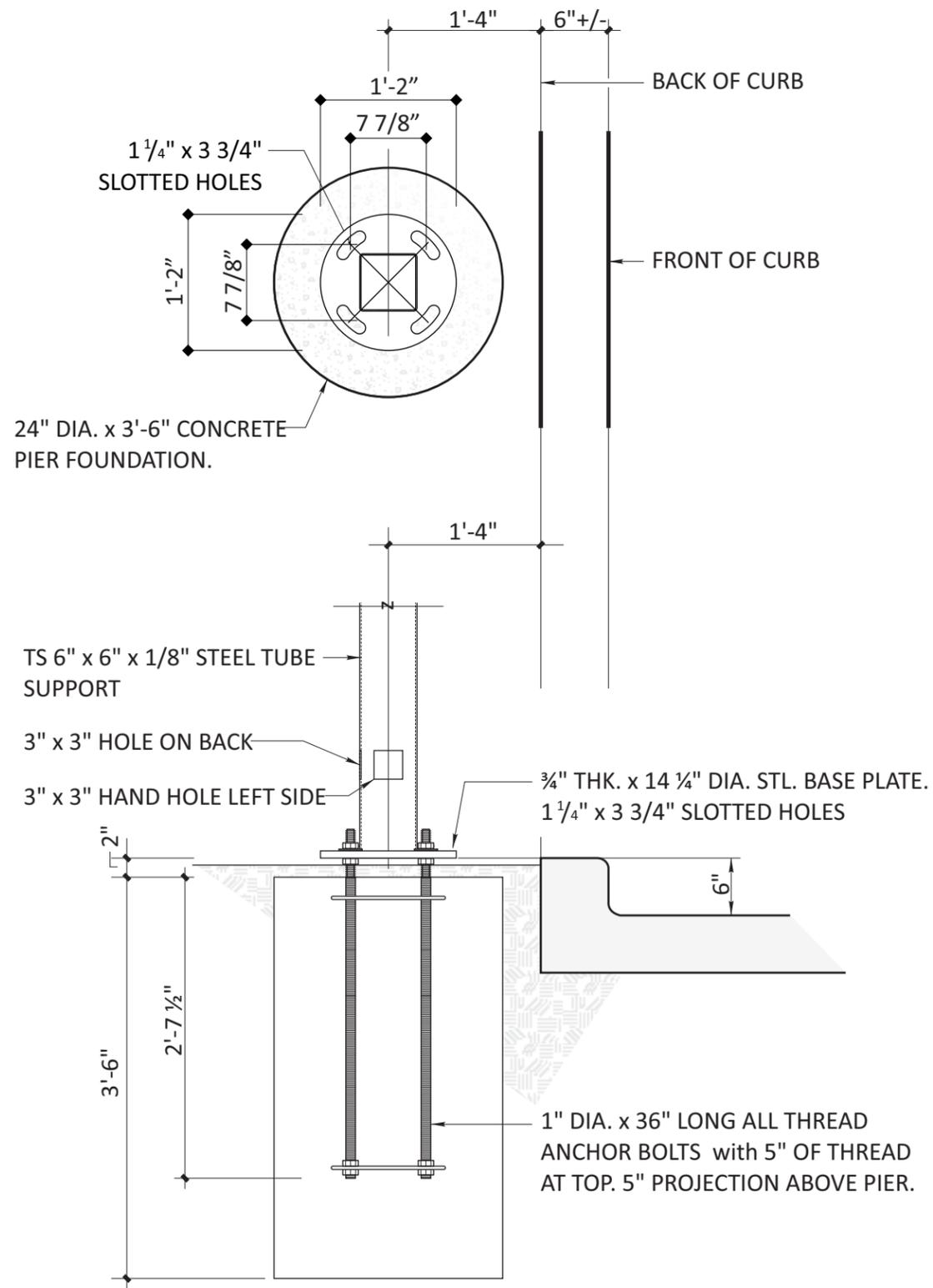
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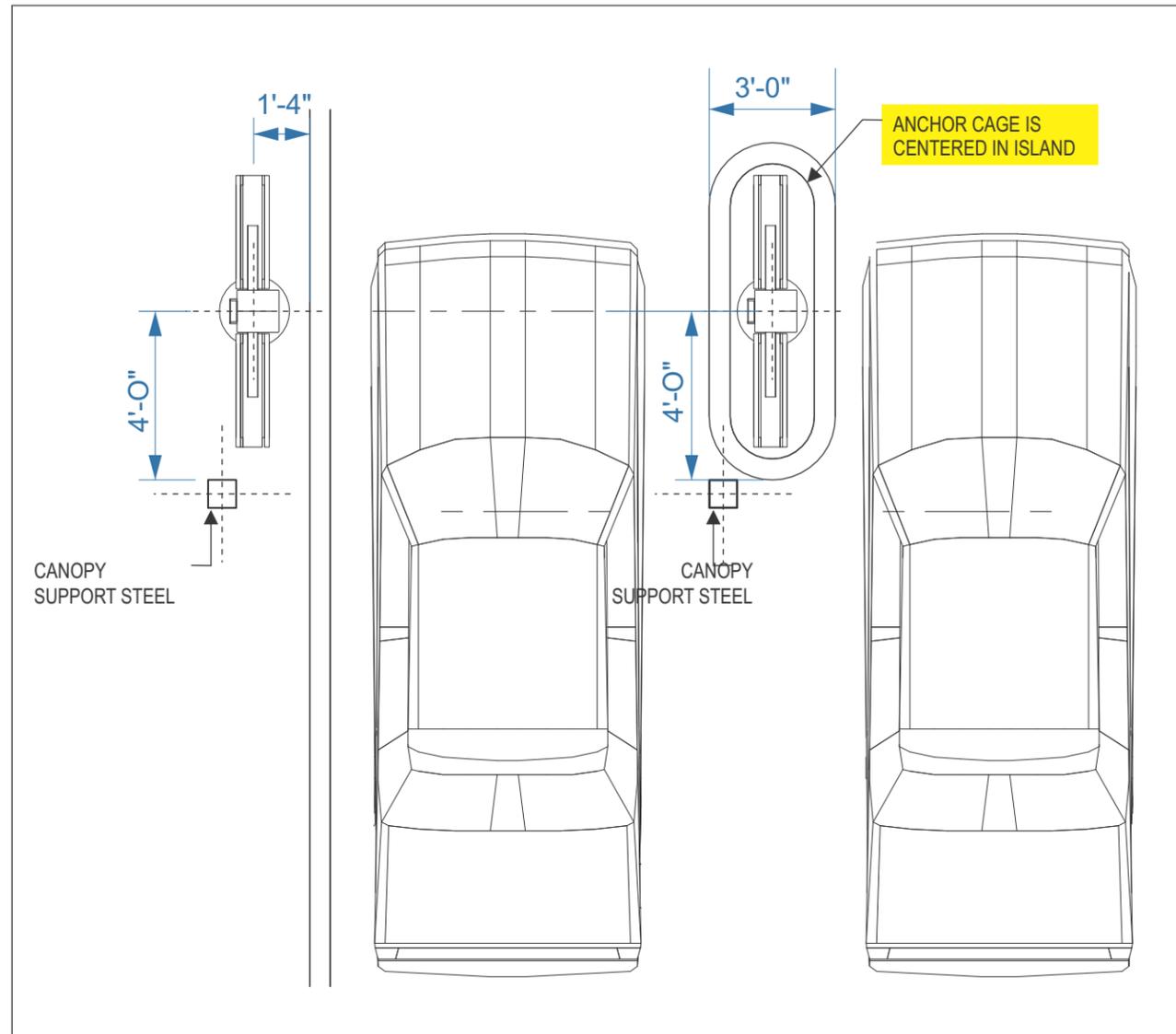
**A**





**BASE PLATE AND ANCHOR DETAIL**

3/4" = 1'-0"



CHANDLER SIGNS TO PROVIDE ORDERING STATIONS.  
 CHANDLER SIGNS TO PROVIDE TEMPLATES AND ANCHOR BOLTS.  
 GEN. CONTRACTOR TO SET ANCHOR BOLTS AND POUR CONCRETE.  
 CHANDLER SIGNS TO INSTALL ORDERING STATIONS.

**General Notes:**

- MINIMUM CONCRETE RESISTANCE OF 3600 PSI AFTER 28 DAYS
- THE GROUND MUST NOT BE ALTERED AND MUST BE WELL DRAINED
- FOUNDATION IS BASE ON SAFE LATERAL SOIL BEARING PRESSURE MINIMUM OF 150 PSF PER FOOT OF DEPTH. SOIL REPORT WAS NOT FURNISHED. ALLOWABLE BEARING PRESSURE SHOULD BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE. DO NOT PLACE FOUNDATION FILL.
- ALL BACKFILLED TO BE PLACE IN COMPACTED LAYERS COMPACTED TO 95% MODIFIED PROCTOR DENSITY
- ELECTRICAL CONDUIT TO BE AS PER CITY CODE
- ALL VOIDS BETWEEN COLUMN BASE PLATE AND FOUNDATION SURFACE SHALL BE COMPLETELY FILLED WITH HIGH STRENGTH, NON-SHRINK GROUT

**RELEASED FOR CONSTRUCTION**  
 As Noted on Plan Review

Development Services Department  
 Lee's Summit, Missouri

06/13/2024

**Design #**

0637033Ar3

**Sheet** 7 of 27

**Client**

#2859

**Address**

690 NW Blue Pkwy,  
 Lees Summit, MO

**Account Rep.** KRISTEN HAMILTON  
 TERRI BROWN

**Designer** LEAH LANSFORD

**Date** 9/29/23

**Approval / Date**

**Client**

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R3(02/26/2024)AM: UPDATED SP ADDED NOTE FOR SIGN A FOR CSI TO PROVIDE NEW STEEL AND FOUNDATION AND ADDED NOT FOR SIGN D FOR CSI TO REMOVE AND DISCARD EXISTING DIF DIRECTIONAL



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 San Antonio, TX 78232  
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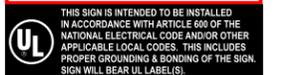
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



**B1-2**



11545 W BERNARDO CT., SUITE 201  
SAN DIEGO, CA 92127  
PROJECTMANAGER@SULLAWAYENG.COM  
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: CHICK-FIL-A, SIGN TYPE: CFA C7, 690 NW BLUE PKWY, LEE'S SUMMIT, MO  
PROJECT #: 43787B  
CLIENT: CHANDLER SIGNS

DATE: 01/09/2024  
ENGINEER: SB/TH(IH)  
LAST REVISED:

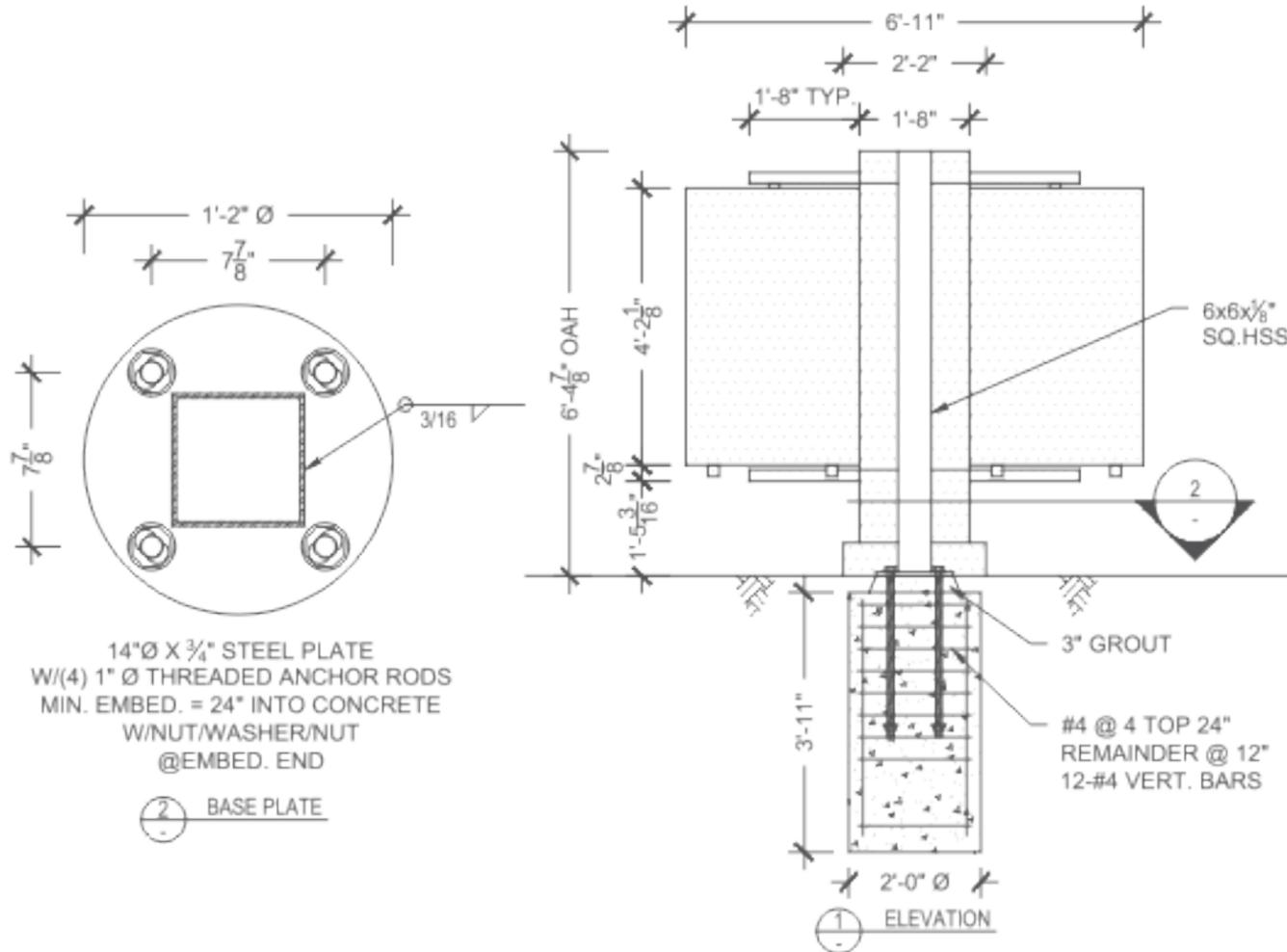


10815 Rancho Bernardo RD., SD, CA 92127  
projectmanager@sullawayeng.com  
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: CHICK-FIL-A  
PROJ. NO.: 43787B  
CLIENT: CHANDLER SIGNS

DATE: 1/9/24  
ENGINEER: SB/TH(IH)

units: pounds, feet unless noted otherwise



14"Ø X 3/4" STEEL PLATE  
W/(4) 1" Ø THREADED ANCHOR RODS  
MIN. EMBED. = 24" INTO CONCRETE  
W/NUT/WASHER/NUT  
@EMBED. END

BASE PLATE

GENERAL NOTES

- DESIGN CODE: IBC 2018
- DESIGN LOADS: ASCE 7-16
- WIND VELOCITY 110 MPH EXPOSURE C
- CONCRETE 2500 PSI MINIMUM
- SQ. HSS STEEL ASTM A500 GR. B,  $F_y = 46$  KSI MIN.
- PLATE STEEL ASTM A36
- THREADED ANCHOR ROD STEEL ASTM F1554 GR. 36
- STEEL REINFORCEMENT IN CONCRETE ASTM A615 GR 60
- PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
- LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
- WELDING STRENGTH,  $F_{exx} = 70$  KSI
- PROVIDE PROTECTION AGAINST DISSIMILAR METALS
- ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION



01-09-2024

Applied Wind Loads; from ASCE 7-16

$F = q_z * G * C_f * A_f$  with  $q_z = 0.00256 K_z K_{zt} K_d V^2$  (29.3.2 & 29.4)  
 $C_f =$  (Fig. 29.3-1) 1.00 max. height= 6.7  
 $K_{zt} =$  1.0 (26.8.2) (=1.0 unless unusual landscape)  
 $K_z =$  from table 28.3-1 Exposure= c  
 $K_d =$  0.85 for signs (table 26.6-1)  
 $V =$  110 mph  
 $G =$  0.85 (26.9)  
 $s/h =$  weight= 0.341 kips  
 $B/s =$   $M_{DL} =$  0.00 k-ft

Pole Loads	structure component	height at section c.g.	$K_z$	$q_z$	$q_z * G * C_f$	$A_f$	shear	Wind Moment $M_w$	
1		0.13	0.850	22.4	31.45	0.0	0	0	
2		0.50	0.850	22.4	31.45	1.1	34	17	
3		1.22	0.850	22.4	31.45	1.6	49	59	
4		1.77	0.850	22.4	31.45	0.8	26	46	
5		1.89	0.850	22.4	31.45	0.2	6	12	
6		4.01	0.850	22.4	31.45	28.9	909	3644	
7		6.14	0.850	22.4	31.45	0.2	5	30	
8		6.26	0.850	22.38	31.45	0.8	26	164	
9		6.50	0.850	22.38	31.45	0.5	17	108	
sums:							34.1	1072	4.08 ( $M_w$ ) k-ft arm= 3.8
							$P_u =$ 0.41 kip	$M =$ 4.08 k-ft	$M = \sqrt{M_{DL}^2 + M_w^2}$
							$M_u = \sqrt{1.2M_{DL}^2 + 1.0M_w^2} =$ 4.08 k-ft		

Pole Design

section; tube

$M_u \leq \phi M_n$  with  $M_n = f_y Z$   $f_y =$  46 ksi  $\% \lambda = 0.9$

H	$M_u$ (k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at 3' below grade	4.08	1.18	2.5	0.188	1.3	6x6x1/8" SQ.HSS, $\phi M_n = 15.6$ k-ft

Footing Design

footprint: round

$\phi =$ 1.3	IBC 1605.3.2	IBC Table 1806.2, sections 1806.3.4, 1807.3.2	$S = (1.3 \times 2 \times 150)$ psf/ft
$P =$ 0.84	kip	$S_1 = S \times d / 3$	$A = 2.34 \times P / (S_1 \times b)$ $S = 400$
$S_1 =$ 519		$d = 0.5 \times A (1 + (1 + 4.36 \times h/A)^{.5})$	IBC 1807.3.2.1
$A =$ 1.88			

footing: 2' - 0" dia. 3' - 11" deep

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Designer LEAH LANSFORD

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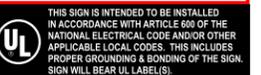
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FINAL ELECTRICAL CONNECTION BY CUSTOMER



B1-2



10815 Rancho Bernardo R.D., SD, CA 92127  
 projectmanager@sullawayeng.com  
 Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: CHICK-FIL-A  
 PROJ. NO.: 43787B  
 CLIENT: CHANDLER SIGNS

DATE: 1/9/24  
 ENGINEER: SB/TH(IH)

V5.6

units: pounds, feet unless noted otherwise

**Check 14" dia x 3/4" thk Round steel plate, A36**

arm = 1.0875 in    b = 10.05 in    t = 0.75 in  
 Mplate =                      T \* arm = 5.883 k-in (T= 5.410k per Simpson)  
 Z=                                      bt<sup>2</sup>/4= 1.413 in<sup>3</sup>  
 φMn =                      %√\*Fy\*Z = 0.9\*36ksi\*Z = 45.790 k-in **OK**

Anchor Designer™  
 Software  
 Version 3.2.2309.2

Company:		Date:	1/9/2024
Engineer:		Page:	1/6
Project:			
Address:			
Phone:			
E-mail:			

**1. Project information**

Customer company:  
 Customer contact name:  
 Customer e-mail:  
 Comment:

Project description:  
 Location:  
 Fastening description:

**2. Input Data & Anchor Parameters**

**General**  
 Design method: ACI 318-19  
 Units: Imperial units

**Base Material**  
 Concrete: Normal-weight  
 Concrete thickness, h (inch): 47.00  
 State: Cracked  
 Compressive strength, f<sub>c</sub> (psi): 2500  
 γ<sub>c</sub>: 1.0  
 Reinforcement condition: Supplementary reinforcement not present  
 Supplemental edge reinforcement: Not applicable  
 Reinforcement provided at corners: No  
 Ignore concrete breakout in tension: No  
 Ignore concrete breakout in shear: No  
 Ignore 8do requirement: No  
 Build-up grout pad: No

**Anchor Information:**  
 Anchor type: Cast-in-place  
 Material: AB  
 Diameter (inch): 1.000  
 Effective Embedment depth, h<sub>er</sub> (inch): 24.000  
 Anchor category: -  
 Anchor ductility: Yes  
 h<sub>min</sub> (inch): 26.63  
 C<sub>min</sub> (inch): 6.00  
 S<sub>min</sub> (inch): 6.00

**Base Plate**  
 Diameter x Thickness (inch): 14.00 x 0.75  
 Yield stress: 36000 psi

**Profile type/size:** HSS6X6X1/8

**Recommended Anchor**

Anchor Name: PAB Pre-Assembled Anchor Bolt - PAB8 (1"Ø)



Input data and results must be checked for agreement with the existing circumstances, the standards and guidelines must be checked for plausibility.

Simpson Strong-Tie Company Inc. 5956 W. Las Positas Boulevard Pleasanton, CA 94588 Phone: 925.560.9000 Fax: 925.847.3871 www.strongtie.com

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**Designer**

LEAH LANSFORD

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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**

THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING & BONDING OF THE SIGN. SIGN WILL BEAR UL LABEL(S).



**B1-2**

Company:		Date:	1/9/2024
Engineer:		Page:	2/6
Project:			
Address:			
Phone:			
E-mail:			

**Load and Geometry**

Load factor source: ACI 318 Section 5.3

Load combination: not set

Seismic design: No

Anchors subjected to sustained tension: Not applicable

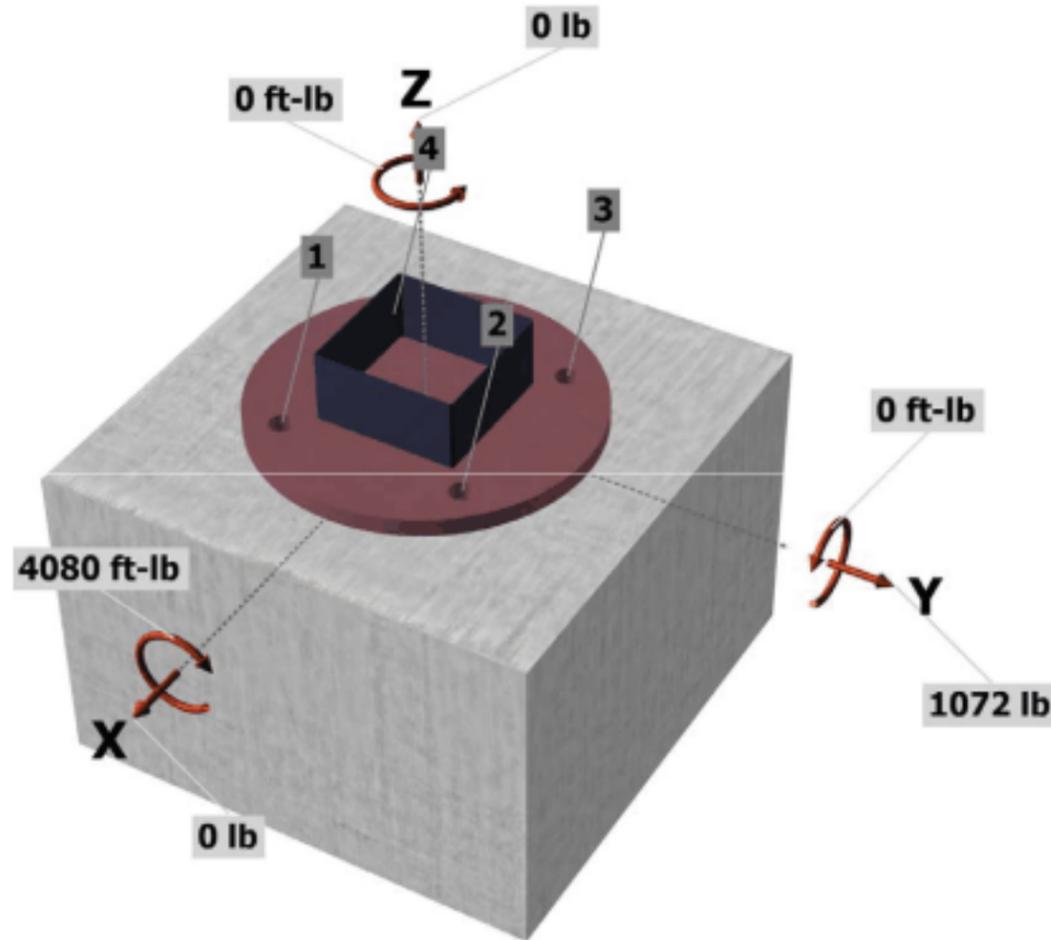
Apply entire shear load at front row: No

Anchors only resisting wind and/or seismic loads: No

**Strength level loads:**

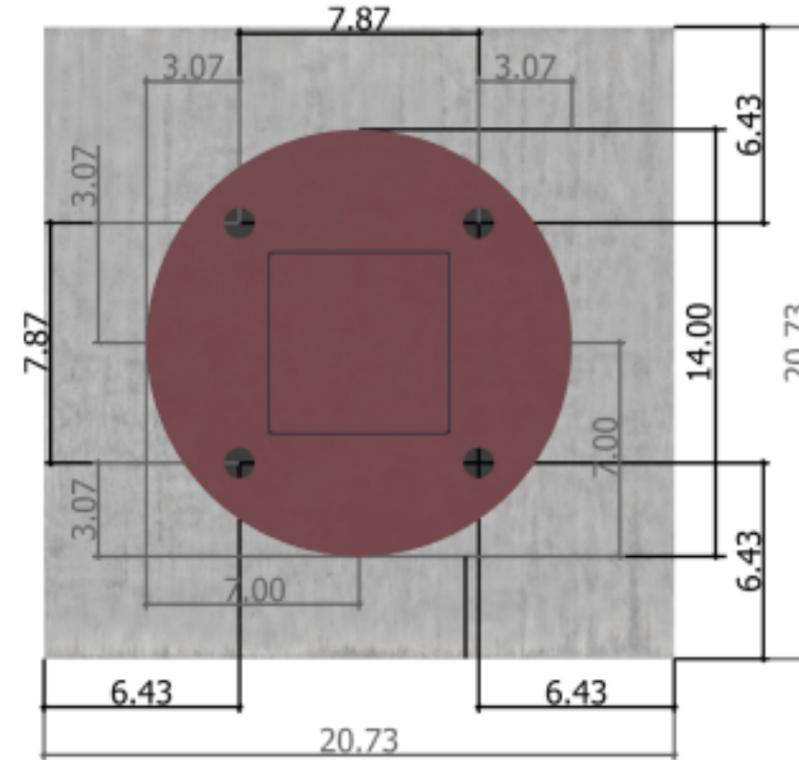
N<sub>ax</sub> [lb]: 0  
V<sub>ax</sub> [lb]: 0  
V<sub>ay</sub> [lb]: 1072  
M<sub>ax</sub> [ft-lb]: -4080  
M<sub>ay</sub> [ft-lb]: 0  
M<sub>az</sub> [ft-lb]: 0

<Figure 1>



Company:		Date:	1/9/2024
Engineer:		Page:	3/6
Project:			
Address:			
Phone:			
E-mail:			

<Figure 2>



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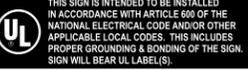
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<b>Sheet</b>	10 of 27
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



**B1-2**

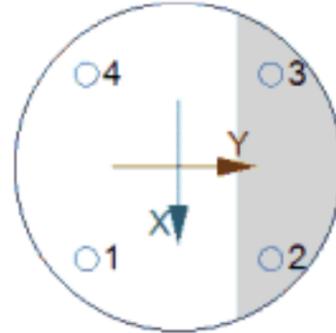
Company:		Date:	1/9/2024
Engineer:		Page:	4/6
Project:			
Address:			
Phone:			
E-mail:			

**3. Resulting Anchor Forces**

Anchor	Tension load, N <sub>ax</sub> (lb)	Shear load x, V <sub>ax</sub> (lb)	Shear load y, V <sub>ay</sub> (lb)	Shear load combined, √(V <sub>ax</sub> ²+V <sub>ay</sub> ²) (lb)
1	2704.5	0.0	268.0	268.0
2	0.0	0.0	268.0	268.0
3	0.0	0.0	268.0	268.0
4	2704.5	0.0	268.0	268.0
Sum	5409.0	0.0	1072.0	1072.0

Maximum concrete compression strain (‰): 0.07  
 Maximum concrete compression stress (psi): 307  
 Resultant tension force (lb): 5409  
 Resultant compression force (lb): 5409  
 Eccentricity of resultant tension forces in x-axis, e'<sub>tx</sub> (inch): 0.00  
 Eccentricity of resultant tension forces in y-axis, e'<sub>ty</sub> (inch): 0.00  
 Eccentricity of resultant shear forces in x-axis, e'<sub>vx</sub> (inch): 0.00  
 Eccentricity of resultant shear forces in y-axis, e'<sub>vy</sub> (inch): 0.00

<Figure 3>



**4. Steel Strength of Anchor in Tension (Sec. 17.6.1)**

N <sub>ax</sub> (lb)	φ	φN <sub>ax</sub> (lb)
35150	0.75	26363

**5. Concrete Breakout Strength of Anchor in Tension (Sec. 17.6.2)**

N<sub>b</sub> = 16λ<sub>a</sub>f<sub>c</sub>h<sub>er</sub>² (Eq. 17.6.2.2.1)

λ <sub>a</sub>	f <sub>c</sub> (psi)	h <sub>er</sub> (in)	N <sub>b</sub> (lb)
1.00	2500	9.533	34290

φN<sub>cbg</sub> = φ(A<sub>nc</sub>/A<sub>no</sub>)<sup>1.5</sup>φ<sub>ec,v</sub>φ<sub>ed,v</sub>φ<sub>en,v</sub>φ<sub>ep,N</sub>N<sub>b</sub> (Sec. 17.5.1.2 & Eq. 17.6.2.1a)

A <sub>nc</sub> (in²)	A <sub>no</sub> (in²)	c <sub>ac</sub> (in)	φ <sub>ec,v</sub>	φ <sub>ed,v</sub>	φ <sub>en,v</sub>	φ <sub>ep,N</sub>	N <sub>b</sub> (lb)	φ	φN <sub>cbg</sub> (lb)
429.73	817.96	6.43	1.000	0.835	1.00	1.000	34290	0.70	10528

**6. Pullout Strength of Anchor in Tension (Sec. 17.6.3)**

φN<sub>pn</sub> = φγ<sub>c,p</sub>N<sub>b</sub> = φγ<sub>c,p</sub>6A<sub>brg</sub>f<sub>c</sub> (Sec. 17.5.1.2, Eq. 17.6.3.1 & 17.6.3.2.2a)

γ <sub>c,p</sub>	A <sub>brg</sub> (in²)	f <sub>c</sub> (psi)	φ	φN <sub>pn</sub> (lb)
1.0	5.15	2500	0.70	72156

Company:		Date:	1/9/2024
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Address:			
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**7. Side-Face Blowout Strength of Anchor in Tension (Sec. 17.6.4)**

φN<sub>sbp</sub> = φ[(1+c<sub>ac</sub>/c<sub>ar</sub>)⁴](1+s/6c<sub>ar</sub>)N<sub>sb</sub> = φ[(1+c<sub>ac</sub>/c<sub>ar</sub>)⁴](1+s/6c<sub>ar</sub>)(160c<sub>ar</sub>h<sub>sbp</sub>)λ<sub>a</sub>f<sub>c</sub> (Sec. 17.5.1.2, Eq. 17.6.4.1 & 17.6.4.2)

s (in)	c <sub>ar</sub> (in)	c <sub>ac</sub> (in)	A <sub>brg</sub> (in²)	λ <sub>a</sub>	f <sub>c</sub> (psi)	φ	φN <sub>sbp</sub> (lb)
7.87	6.43	6.43	5.15	1.00	2500	0.70	49211

**8. Steel Strength of Anchor in Shear (Sec. 17.7.1)**

V <sub>ax</sub> (lb)	φ <sub>grout</sub>	φ	φ <sub>grout</sub> φV <sub>ax</sub> (lb)
21090	1.0	0.65	13709

**9. Concrete Breakout Strength of Anchor in Shear (Sec. 17.7.2)**

Shear perpendicular to edge in y-direction:

V<sub>by</sub> = min[7(l<sub>e</sub>/d<sub>a</sub>)²λ<sub>a</sub>d<sub>a</sub>λ<sub>a</sub>f<sub>c</sub>c<sub>ar</sub>¹.⁵; 9λ<sub>a</sub>f<sub>c</sub>c<sub>ar</sub>¹.⁵] (Eq. 17.7.2.2.1a & Eq. 17.7.2.2.1b)

l <sub>e</sub> (in)	d <sub>a</sub> (in)	λ <sub>a</sub>	f <sub>c</sub> (psi)	c <sub>ar</sub> (in)	V <sub>by</sub> (lb)
8.00	1.000	1.00	2500	14.30	24334

φV<sub>cbg</sub> = φ(A<sub>vc</sub>/A<sub>vo</sub>)<sup>1.5</sup>φ<sub>ec,v</sub>φ<sub>ed,v</sub>φ<sub>en,v</sub>φ<sub>ep,v</sub>V<sub>by</sub> (Sec. 17.5.1.2 & Eq. 17.7.2.1b)

A <sub>vc</sub> (in²)	A <sub>vo</sub> (in²)	φ <sub>ec,v</sub>	φ <sub>ed,v</sub>	φ <sub>en,v</sub>	φ <sub>ep,v</sub>	V <sub>by</sub> (lb)	φ	φV <sub>cbg</sub> (lb)
444.66	920.21	1.000	0.790	1.000	1.000	24334	0.70	6502

Shear parallel to edge in x-direction:

V<sub>by</sub> = min[7(l<sub>e</sub>/d<sub>a</sub>)²λ<sub>a</sub>d<sub>a</sub>λ<sub>a</sub>f<sub>c</sub>c<sub>ar</sub>¹.⁵; 9λ<sub>a</sub>f<sub>c</sub>c<sub>ar</sub>¹.⁵] (Eq. 17.7.2.2.1a & Eq. 17.7.2.2.1b)

l <sub>e</sub> (in)	d <sub>a</sub> (in)	λ <sub>a</sub>	f <sub>c</sub> (psi)	c <sub>ar</sub> (in)	V <sub>by</sub> (lb)
8.00	1.000	1.00	2500	6.43	7337

φV<sub>cbg</sub> = φ(2)(A<sub>vc</sub>/A<sub>vo</sub>)<sup>1.5</sup>φ<sub>ec,v</sub>φ<sub>ed,v</sub>φ<sub>en,v</sub>φ<sub>ep,v</sub>V<sub>by</sub> (Sec. 17.5.1.2, 17.7.2.1(c) & Eq. 17.7.2.1b)

A <sub>vc</sub> (in²)	A <sub>vo</sub> (in²)	φ <sub>ec,v</sub>	φ <sub>ed,v</sub>	φ <sub>en,v</sub>	φ <sub>ep,v</sub>	V <sub>by</sub> (lb)	φ	φV <sub>cbg</sub> (lb)
199.94	186.05	1.000	1.000	1.000	1.000	7337	0.70	11039

**10. Concrete Pryout Strength of Anchor in Shear (Sec. 17.7.3)**

φV<sub>cbg</sub> = φk<sub>cp</sub>N<sub>brg</sub> = φk<sub>cp</sub>(A<sub>no</sub>/A<sub>no</sub>)<sup>1.5</sup>φ<sub>ec,N</sub>φ<sub>ed,N</sub>φ<sub>en,N</sub>φ<sub>ep,N</sub>N<sub>b</sub> (Sec. 17.5.1.2 & Eq. 17.7.3.1b)

k <sub>cp</sub>	A <sub>no</sub> (in²)	A <sub>no</sub> (in²)	φ <sub>ec,N</sub>	φ <sub>ed,N</sub>	φ <sub>en,N</sub>	φ <sub>ep,N</sub>	N <sub>b</sub> (lb)	φ	φV <sub>cbg</sub> (lb)
2.0	429.73	165.38	1.000	1.000	1.000	1.000	9049	0.70	32921

**11. Results**

**Interaction of Tensile and Shear Forces (Sec. 17.8)**

Tension	Factored Load, N <sub>ax</sub> (lb)	Design Strength, φN <sub>t</sub> (lb)	Ratio	Status
Steel	2704	26363	0.10	Pass
Concrete breakout	5409	10528	0.51	Pass (Governs)
Pullout	2704	72156	0.04	Pass
Side-face blowout	5409	49211	0.11	Pass

Shear	Factored Load, V <sub>ax</sub> (lb)	Design Strength, φV <sub>r</sub> (lb)	Ratio	Status
Steel	268	13709	0.02	Pass
T Concrete breakout y+	1072	6502	0.16	Pass (Governs)
Concrete breakout x-	536	11039	0.05	Pass (Governs)

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**Design #**  
0637033Ar3

**Sheet** 11 of 27

**Client**  
#2859

**Address**  
690 NW Blue Pkwy,  
Lees Summit, MO

**Account Rep.** KRISTEN HAMILTON  
TERRI BROWN

**Designer** LEAH LANSFORD

**Date** 9/29/23

**Approval / Date**

**Client**

**Sales**

**Estimating**

**Art**

**Engineering**

**Landlord**

**Revision/Date**

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 R2(1/16/24)LL: ADDED STAMPED ENGINEERING  
 CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT OF REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4  
 R3(02/26/2024)AM: UPDATED SP ADDED NOTE FOR SIGN A FOR CSI TO PROVIDE NEW STEEL AND FOUNDATION AND ADDED NOT FOR SIGN D FOR CSI TO REMOVE AND DISCARD EXISTING DIRECTIONAL

**CHANDLER SIGNS**

**National Headquarters** 14201 Sovereign Road #101  
Fort Worth, TX 76155  
(214)902-2000 Fax(214)902-2044

**San Antonio** 17319 San Pedro Ave  
Ste 200  
San Antonio, TX 78232  
(210)349-3804 Fax (210)349-8724

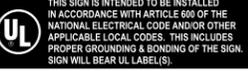
**Northeast US** 2301 River Road Ste 201  
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



**B1-2**



Company:		Date:	1/9/2024
Engineer:		Page:	6/6
Project:			
Address:			
Phone:			
E-mail:			

Pryout	1072	32921	0.03	Pass	
Interaction check	$N_{ua}/N_n$	$V_{ua}/V_n$	Combined Ratio	Permissible	Status
Sec. 17.8.1	0.51	0.00	51.4%	1.0	Pass

PAB8 (1"Ø) with hef = 24.000 inch meets the selected design criteria.

**12. Warnings**

- Designer must exercise own judgement to determine if this design is suitable.

Input data and results must be checked for agreement with the existing circumstances, the standards and guidelines must be checked for plausibility.  
Simpson Strong-Tie Company Inc. 5956 W. Las Positas Boulevard Pleasanton, CA 94588 Phone: 925.560.9000 Fax: 925.847.3871 www.strongtie.com

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KRISTEN HAMILTON  
TERRI BROWN

**Designer**

LEAH LANSFORD

**Date**

9/29/23

**Approval / Date**

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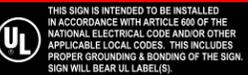
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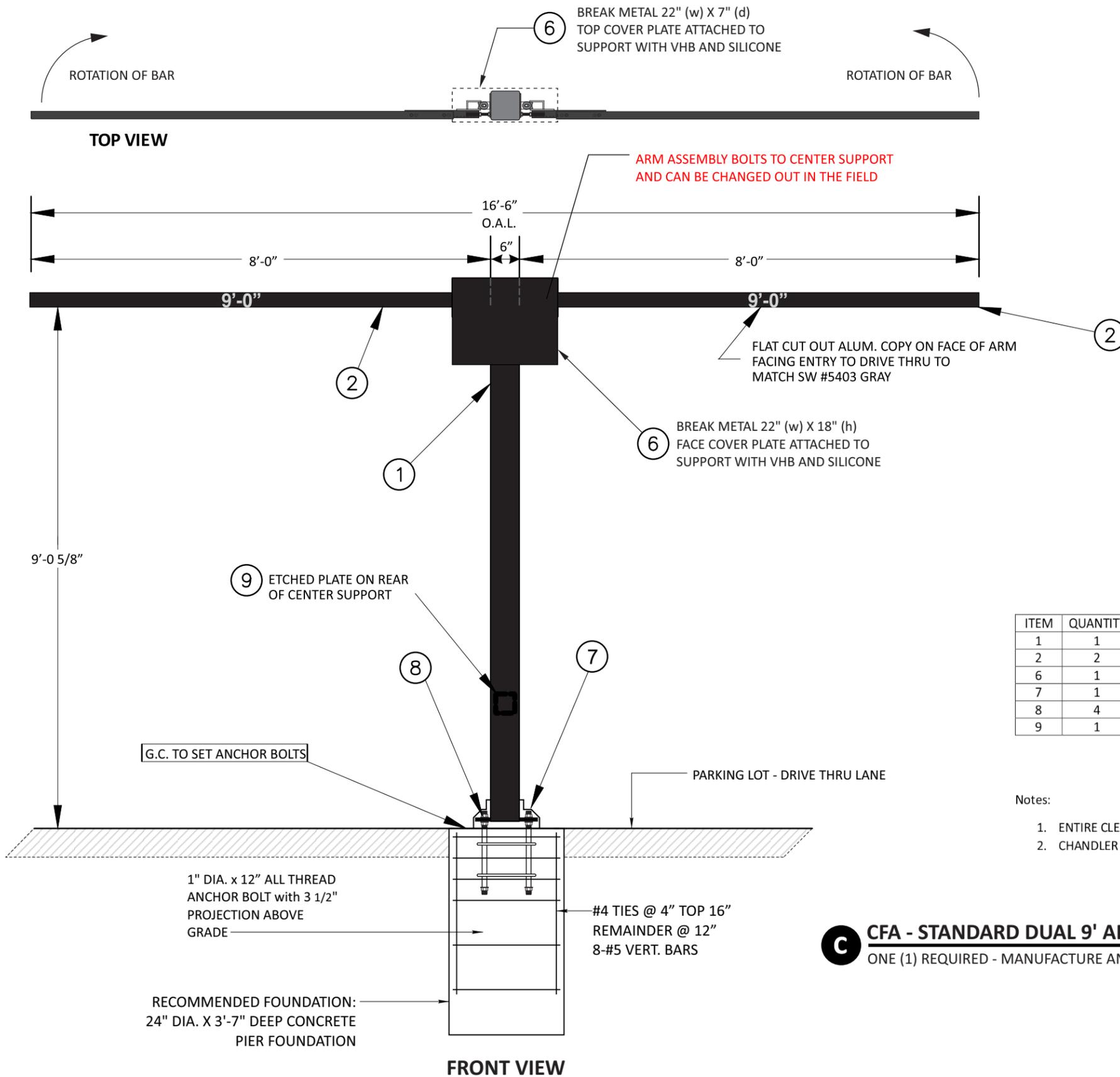
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



**B1-2**



ITEM	QUANTITY	DESCRIPTION
1	1	CENTER POST ASSEMBLY, 6" X 6" STEEL
2	2	CLEARANCE BAR ASSEMBLY, 2" X 2" ALUM ANGLE
6	1	TOP COVER, .125" ALUM, BREAK FORMED
7	1	BASE COVER, .08" ALUM, BREAK FORMED
8	4	1" X 36" LONG, ALL TREAD ANCHORS, INCLUDING NUTS AND WASHERS
9	1	CLEARANCE BAR ID PLATE

Notes:

1. ENTIRE CLEARANCE BAR AND HARDWARE TO BE POWDER-COATED P-820 MATTE BLACK FINISH
2. CHANDLER TO PROVIDE ALL-THREAD ANCHORS WITH FENDER WASHERS AND HEX BOLTS

**CFA - STANDARD DUAL 9' ARM CLEARANCE BAR - MATTE BLACK** SCALE: 1/2" = 1'-0"  
 ONE (1) REQUIRED - MANUFACTURE AND INSTALL

<b>Design #</b>	
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<b>Sheet</b>	13 of 27
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#2859	
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<b>Account Rep.</b>	KRISTEN HAMILTON TERRI BROWN
<b>Designer</b>	LEAH LANSFORD
<b>Date</b>	9/29/23
<b>Approval / Date</b>	
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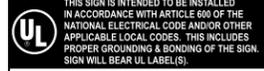
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



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 Lee's Summit, Missouri  
 06/13/2024



C



11545 W. BERNARDO COURT, SUITE 201  
SAN DIEGO, CA 92127  
PROJECTMANAGER@SULLAWAYENG.COM  
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

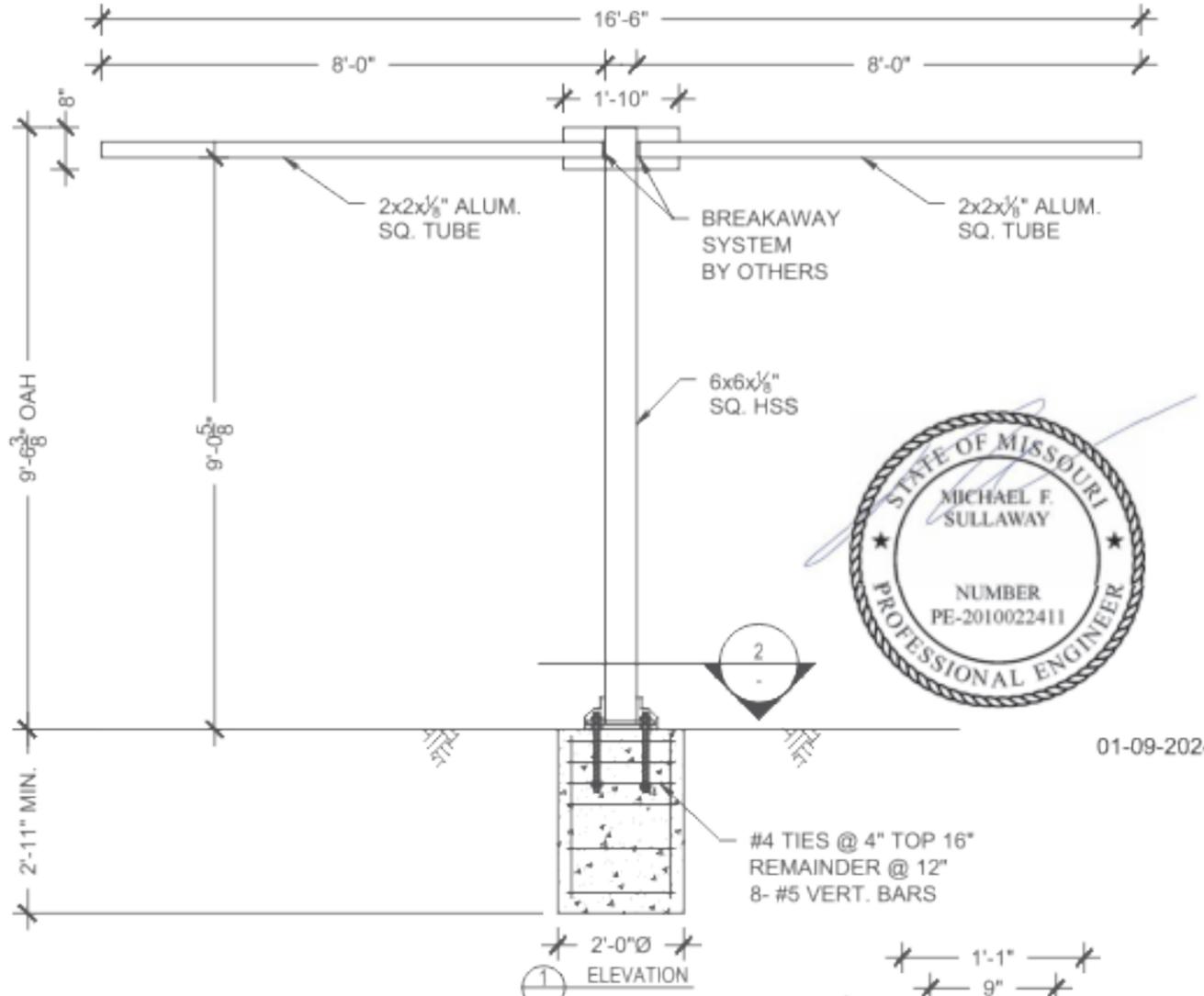
PROJECT: CFA-2859, 690 NW BLUE PKWY, LEE'S SUMMIT, MO  
PROJECT #: 43787C  
CLIENT: CHANDLER SIGNS

DATE: 01/09/2024  
ENGINEER: JC(IH)  
LAST REVISED:



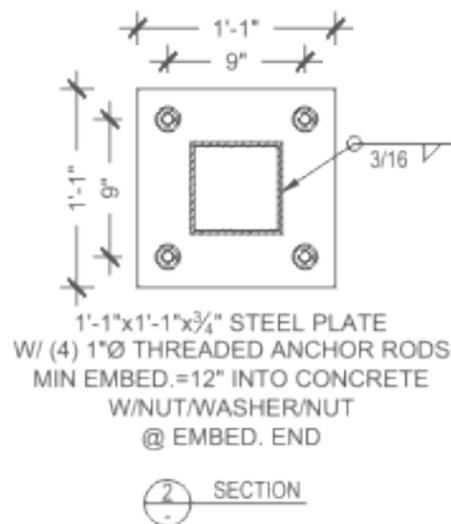
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**GENERAL NOTES**

- DESIGN CODE: IBC 2018
- DESIGN LOADS: ASCE 7-16
- WIND VELOCITY 110 MPH EXPOSURE C
- CONCRETE 2500 PSI MINIMUM
- SQ. HSS STEEL ASTM A500 GR. B,  $F_y = 46$  KSI MIN.
- PLATE STEEL ASTM A36
- ALUMINUM ELEMENTS 6061-T6
- THREADED ANCHOR ROD STEEL ASTM F1554 GR. 36
- STEEL REINFORCEMENT IN CONCRETE ASTM A615 GR 60
- PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
- LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
- WELDING STRENGTH,  $F_{exx} = 70$  KSI
- PROVIDE PROTECTION AGAINST DISSIMILAR METALS
- ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION



units: pounds, feet unless noted otherwise

**Applied Wind Loads; from ASCE 7-16**

$F = q_z * G * C_f * A_f$  with  $q_z = 0.00256 K_z K_{zt} K_d V^2$  (29.3.2 & 29.4)  
 $C_f =$  (Fig. 29.3-1) 1.00 max. height= 9.53  
 $K_{zt} = 1.0$  (26.8.2) (=1.0 unless unusual landscape)  
 $K_z =$  from table 28.3-1 Exposure= c  
 $K_d = 0.85$  for signs (table 26.6-1)  
 $V = 110$  mph  
 $G = 0.85$  (26.9)  
 weight= 0.083 kips  
 $M_{OL} = 0.00$  k-ft  
 $B/s =$

Pole Loads	structure component	height at section c.g.	$K_z$	$q_z$	pressure $q_z * G * C_f$	$A_f$	shear	Wind Moment $M_w$			
1		0.25	0.850	22.4	43.66	0.5	21	5			
2		4.68	0.850	22.4	43.66	4.2	183	855			
3		8.96	0.850	22.4	43.66	0.3	15	134			
4		9.14	0.850	22.4	43.66	2.7	120	1097			
5		9.38	0.850	22.4	43.66	0.6	25	234			
sums:								8.3	363	2.33 ( $M_w$ ) k-ft	arm= 6.4
								$P_U = 0.10$ kip	$M = 2.33$ k-ft	$M = \sqrt{M_{Lx}^2 + M_{Ly}^2}$	
								$M_U = \sqrt{1.2M_{OL}^2 + 1.0M_w^2} = 2.33$ k-ft			

**Pole Design section; tube**

$M_u \leq \phi M_n$  with  $M_n = f_y Z$   $f_y = 46$  ksi  $\% \sqrt{v} = 0.9$

H	$M_u$ (k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at grade	2.33	0.67	2	0.25	1.0	6x6x1/8" SQ. HSS, $\phi M_n = 15.6$ k-ft

**Footing Design footprint: round**

$\omega = 1.3$	IBC 1606.3.2	IBC Table 1806.2, sections 1806.3.4, 1807.3.2	$S = (1.3 \times 2 \times 150 \text{ psf/ft})$
$P = 0.28$ kip		$S1 = S \times d / 3$	$A = 2.34 \times P / (S1 \times b)$ $S = 400$
$S1 = 388$		$d = 0.5 \times A (1 + (1 + 4.36 \times h/A)^{.5})$	IBC 1807.3.2.1
$A = 0.86$			

footing: 2' - 0" dia. 2' - 11" deep min.

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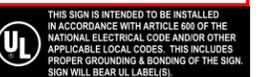
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



C



PROJECT: CFA-2859  
 PROJ. NO.: 43787C  
 CLIENT: CHANDLER SIGNS

DATE: 1/09/24  
 ENGINEER: JC(IH)

v5.5 units: pounds, feet unless noted otherwise

**Check 2x2x1/8" Aluminum Sq. Tube (LRFD):**  $\phi = 0.75$

Pnet=	(See Page#2)=	43.66 psf
Tributary Area=	ATrib=(7'-4")*(2")+(8")*(8")=	1.667 ft <sup>2</sup>
Wind Load=	WL=Pnet*ATrib=	0.073 kips
Dead Load=	DL=1.2*10psf*ATrib=	0.020 kips
arm=	(8'-0")/2=	4 ft
MWL=	WL*arm=	0.291 k-ft
MDL=	DL*arm=	0.080 k-ft
Total Moment=	MDL + MWL=	4.453 k-in

**Torsion on 6"x6"x1/8" SQ. HSS**

Tu=	MWL*2 Clearance bar =	0.582 k-ft	6.99 k-in
-----	-----------------------	------------	-----------

**Check 13x13x0.75" Steel Base Plate, A36**

n =	2	arm=	1.650 in	b =	12.30 in	t =	0.75 in	T =	1.432
Mplate =		T per bolt * n * arm =	4.726 k-in	(T= From Simpson's)					
Z=		bt <sup>2</sup> /4=	1.730 in <sup>3</sup>						
$\phi$ Mn =		$\phi$ *Fy*Z = 0.9*36ksi*Z =	56.04 k-in	OK					

**Loads on 1" dia. Threaded Anchor Rods, F1554 Gr.36:**

Mu =	=	2.33 k-ft	(See Page #2)
Vu =	=	0.363 kips	
T	=	k-ft	



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**Check 2"x2"x0.125" Sq. Aluminum Tube** (ADM 2015 - Ch F)

Mu =	4.453 k-in	(See Page#3)	d	t
Yielding: (Governs)			2	0.125
(ADM 15, F.2)	Mn = Z Fcy =	23.1 k-in	welded?	NO
	Mn = 1.5 St Fty =	29.0 k-in	Fcy = Fty =	35 ksi
			Z =	0.660 in <sup>3</sup>
	PMn =	20.8 k-in OK	St =	0.552 in <sup>3</sup>
LB:			P =	0.9
(ADM 15 F.3.1)	Bp =	45.0 ksi	8 =	1 ksi
	Dp =	0.30 ksi	E =	10100 ksi
	Cp =	61.4	k1c =	0.35
			k2c =	2.27
	91 = Bp-Fcy/1.6Dp =	20.8	k1f =	0.5
	92 = k1 Bp/1.6Dp =	15.2	k2f =	2.04
	since b/t < 91: Fc = Fcy =	35.00	b/t =	14.0
			m =	0.65
			I =	0.552 in <sup>4</sup>
	Bbr =	66.8 ksi	ccf =	0.938 in
	Dbr =	0.67 ksi	ccw =	1.0 in
	Cbr =	67		
	91 = Bbr-1.5 Fcy/mDbr =	33.0		
	92 = k1 Bbr/mDbr =	77.2		
	since b/t < 91: Fc = 1.5 Fcy =	52.50		
	Mnlb = Fc I / ccf + Fb Iw / ccw =	49.57 k-in		
	PMnlb =	44.61 k-in OK		

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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**

THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING & BONDING OF THE SIGN. SIGN WILL BEAR UL LABEL(S).



C



PROJECT: CFA-2859  
 PROJ. NO.: 43787C  
 CLIENT: CHANDLER SIGNS

DATE: 1/9/24  
 ENGINEER: JC(IH)

units: pounds, feet unless noted otherwise

Check HSS6X6X.125 for torsion and combined forces (AISC 14 H3)

$T_r =$	6.99 k-in (See Page#3)	$F_y =$	46 ksi
		$h =$	5.65 in <sup>3</sup>
$h/t =$	48.7	$t =$	0.116 in <sup>3</sup>
$2.45 (E/F_y)^{1/2} =$	61.52	$E =$	29000 ksi
$3.07 (E/F_y)^{1/2} =$	77.08	$L =$	in
		$C =$	8.03 in <sup>3</sup>
$F_{cr} =$	27.6 ksi (eq'n. H3-3)	$\phi =$	0.9
$T_c = \phi T_n = \phi F_{cr} C =$	199.5 k-in OK		
$M_r/M_c + (T_r/T_c)^2 =$	0.15 < 1 OK (eq'n. H3-6)		
	(See Page #2 for Mr & Mc)		



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Phone:			
E-mail:			

**1. Project Information**

Customer company:  
 Customer contact name:  
 Customer e-mail:  
 Comment:

Project description:  
 Location:  
 Fastening description:

**2. Input Data & Anchor Parameters**

**General**  
 Design method: ACI 318-19  
 Units: Imperial units

**Base Material**  
 Concrete: Normal-weight  
 Concrete thickness, h (inch): 35.00  
 State: Cracked  
 Compressive strength, f<sub>c</sub> (psi): 2500  
 γ<sub>c</sub>: 1.0  
 Reinforcement condition: Supplementary reinforcement not present  
 Supplemental edge reinforcement: Not applicable  
 Reinforcement provided at corners: No  
 Ignore concrete breakout in tension: No  
 Ignore concrete breakout in shear: No  
 Ignore 6do requirement: No  
 Build-up grout pad: No

**Anchor Information:**  
 Anchor type: Cast-in-place  
 Material: AB  
 Diameter (Inch): 1.000  
 Effective Embedment depth, h<sub>ef</sub> (inch): 12.000  
 Anchor category: -  
 Anchor ductility: Yes  
 h<sub>min</sub> (inch): 14.63  
 C<sub>min</sub> (inch): 6.00  
 S<sub>min</sub> (inch): 6.00

**Base Plate**  
 Length x Width x Thickness (inch): 13.00 x 13.00 x 0.75

**Recommended Anchor**

Anchor Name: PAB Pre-Assembled Anchor Bolt - PAB8 (1"Ø)



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<b>Client</b>	
#2859	
<b>Address</b>	
690 NW Blue Pkwy, Lees Summit, MO	
<b>Account Rep.</b>	KRISTEN HAMILTON TERRI BROWN
<b>Designer</b>	LEAH LANSFORD
<b>Date</b>	9/29/23
<b>Approval / Date</b>	
<b>Client</b>	
<b>Sales</b>	
<b>Estimating</b>	
<b>Art</b>	
<b>Engineering</b>	
<b>Landlord</b>	

Revision/Date
R1(12:22:23)LL: CHANGED SIZE OF PANELS ON THE SIGN STORPINE
R2(1/16/24)LL: ADDED STAMPED ENGINEERING CORRECTION 01/17/2024AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT OF REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4
R3(02/26/2024)AM: UPDATED SP ADDED NOTE FOR SIGN A FOR CSI TO PROVIDE NEW STEEL AND FOUNDATION AND ADDED NOT FOR SIGN D FOR CSI TO REMOVE AND DISCARD EXISTING DF DIRECTIONAL



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FINAL ELECTRICAL CONNECTION BY CUSTOMER



C

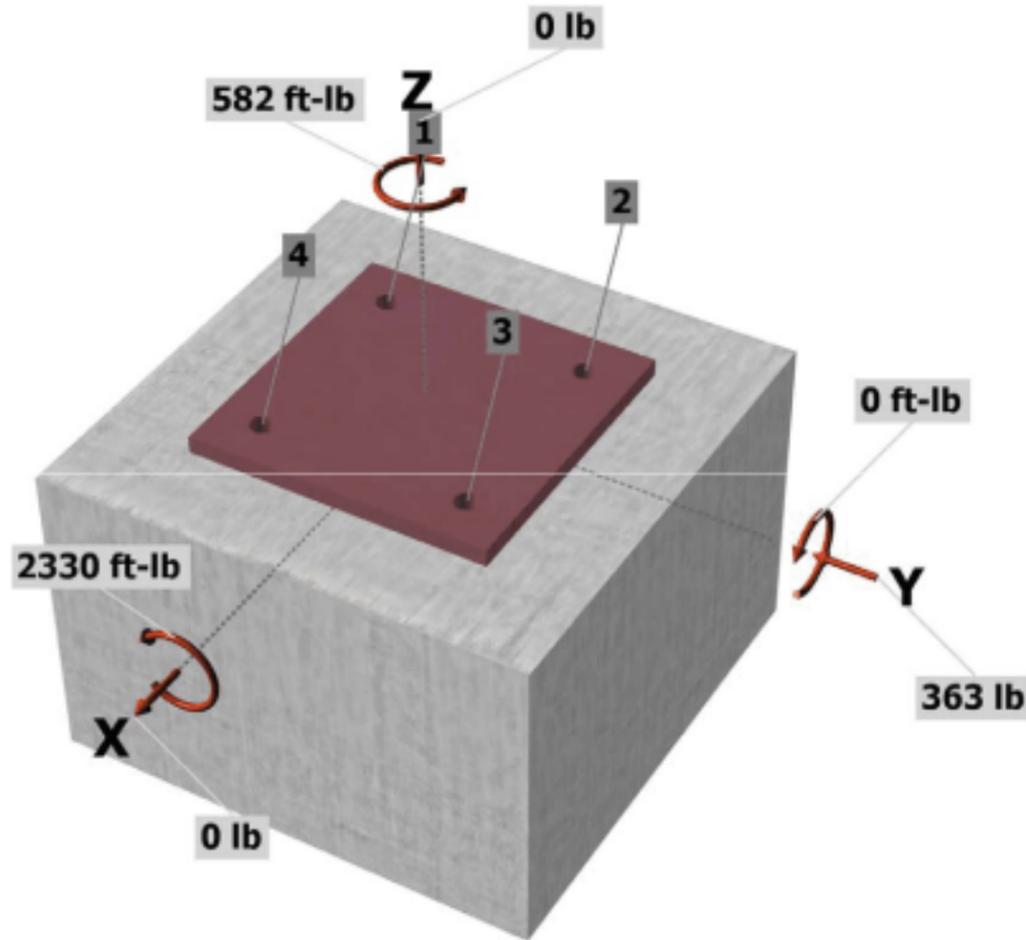
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**Load and Geometry**  
 Load factor source: ACI 318 Section 5.3  
 Load combination: not set  
 Seismic design: No  
 Anchors subjected to sustained tension: Not applicable  
 Apply entire shear load at front row: No  
 Anchors only resisting wind and/or seismic loads: No

Strength level loads:

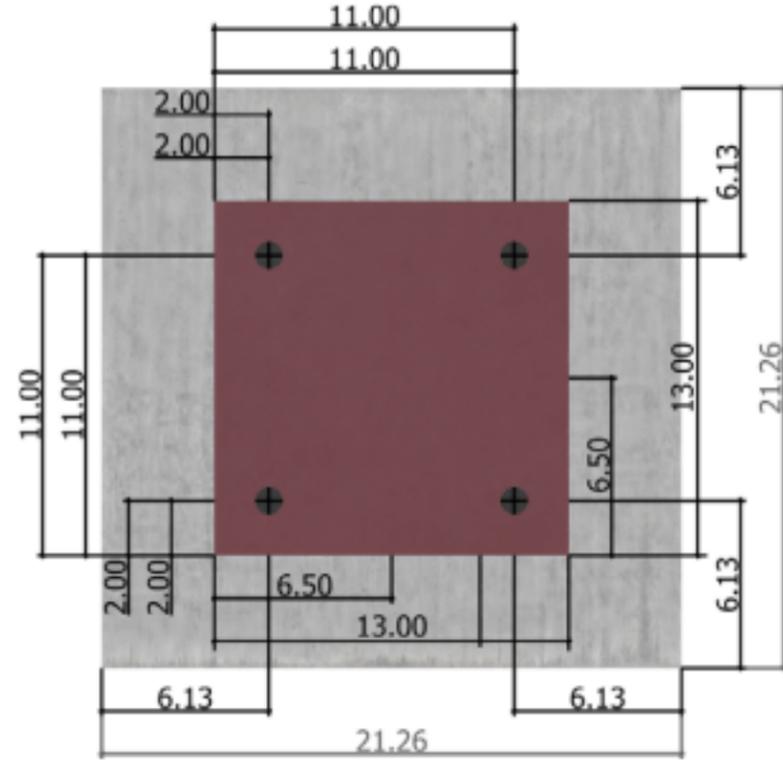
N<sub>ax</sub> [lb]: 0  
 V<sub>axx</sub> [lb]: 0  
 V<sub>ayy</sub> [lb]: -363  
 M<sub>ax</sub> [ft-lb]: 2330  
 M<sub>ay</sub> [ft-lb]: 0  
 M<sub>az</sub> [ft-lb]: 582

<Figure 1>



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<Figure 2>



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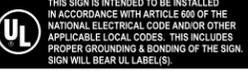


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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



**C**

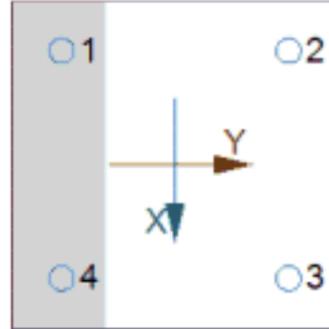
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**3. Resulting Anchor Forces**

Anchor	Tension load, N <sub>ax</sub> (lb)	Shear load x, V <sub>ax</sub> (lb)	Shear load y, V <sub>ay</sub> (lb)	Shear load combined, √(V <sub>ax</sub> ) <sup>2</sup> + (V <sub>ay</sub> ) <sup>2</sup> (lb)
1	0.0	194.0	-284.7	344.5
2	1432.0	-194.0	-284.7	344.5
3	1432.0	-194.0	103.2	219.8
4	0.0	194.0	103.2	219.8
Sum	2864.0	0.0	-363.0	1128.6

Maximum concrete compression strain (‰): 0.03  
 Maximum concrete compression stress (psi): 119  
 Resultant tension force (lb): 2864  
 Resultant compression force (lb): 2864  
 Eccentricity of resultant tension forces in x-axis, e'<sub>tx</sub> (inch): 0.00  
 Eccentricity of resultant tension forces in y-axis, e'<sub>ty</sub> (inch): 0.00  
 Eccentricity of resultant shear forces in x-axis, e'<sub>vx</sub> (inch): 0.00  
 Eccentricity of resultant shear forces in y-axis, e'<sub>vy</sub> (inch): 0.00

<Figure 3>



**4. Steel Strength of Anchor in Tension (Sec. 17.6.1)**

N <sub>ax</sub> (lb)	φ	φN <sub>ax</sub> (lb)
35150	0.75	26363

**5. Concrete Breakout Strength of Anchor in Tension (Sec. 17.6.2)**

N<sub>b</sub> = 16λ<sub>a</sub>f<sub>c</sub>h<sub>er</sub><sup>3/2</sup> (Eq. 17.6.2.2.1)

λ <sub>a</sub>	f <sub>c</sub> (psi)	h <sub>er</sub> (in)	N <sub>b</sub> (lb)
1.00	2500	10.087	37671

φN<sub>cbg</sub> = φ(A<sub>nc</sub>/A<sub>no</sub>)ε<sub>sc,N</sub>ε<sub>ed,N</sub>ε<sub>cn</sub>ε<sub>cp,N</sub>N<sub>b</sub> (Sec. 17.5.1.2 & Eq. 17.6.2.1a)

A <sub>nc</sub> (in <sup>2</sup> )	A <sub>no</sub> (in <sup>2</sup> )	c <sub>alt,N</sub> (in)	ε <sub>sc,N</sub>	ε <sub>ed,N</sub>	ε <sub>cn</sub>	ε <sub>cp,N</sub>	N <sub>b</sub> (lb)	φ	φN <sub>cbg</sub> (lb)
451.99	915.67	6.13	1.000	0.822	1.00	1.000	37671	0.70	10694

**6. Pullout Strength of Anchor in Tension (Sec. 17.6.3)**

φN<sub>pn</sub> = φY<sub>cp</sub>N<sub>p</sub> = φY<sub>cp</sub>8A<sub>dg</sub>f<sub>c</sub> (Sec. 17.5.1.2, Eq. 17.6.3.1 & 17.6.3.2.2a)

Y <sub>cp</sub>	A <sub>dg</sub> (in <sup>2</sup> )	f <sub>c</sub> (psi)	φ	φN <sub>pn</sub> (lb)
1.0	5.15	2500	0.70	72156

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**8. Steel Strength of Anchor in Shear (Sec. 17.7.1)**

V <sub>ax</sub> (lb)	φ <sub>grout</sub>	φ	φ <sub>grout</sub> V <sub>ax</sub> (lb)
21090	1.0	0.65	13709

**9. Concrete Breakout Strength of Anchor in Shear (Sec. 17.7.2)**

Shear perpendicular to edge in x-direction:

V<sub>bx</sub> = min[7(l<sub>e</sub>/d<sub>s</sub>)<sup>3/2</sup>λ<sub>a</sub>λ<sub>s</sub>f<sub>c</sub>c<sub>or</sub><sup>1.5</sup>; 9λ<sub>a</sub>f<sub>c</sub>c<sub>or</sub><sup>1.5</sup>] (Eq. 17.7.2.2.1a & Eq. 17.7.2.2.1b)

l <sub>e</sub> (in)	d <sub>s</sub> (in)	λ <sub>a</sub>	f <sub>c</sub> (psi)	c <sub>or</sub> (in)	V <sub>bx</sub> (lb)
8.00	1.000	1.00	2500	15.13	26483

φV<sub>cbg</sub> = φ(A<sub>vc</sub>/A<sub>vo</sub>)ε<sub>sc,V</sub>ε<sub>ed,V</sub>ε<sub>cn</sub>ε<sub>cp,V</sub>V<sub>bx</sub> (Sec. 17.5.1.2 & Eq. 17.7.2.1b)

A <sub>vc</sub> (in <sup>2</sup> )	A <sub>vo</sub> (in <sup>2</sup> )	ε <sub>sc,V</sub>	ε <sub>ed,V</sub>	ε <sub>cn</sub>	ε <sub>cp,V</sub>	V <sub>bx</sub> (lb)	φ	φV <sub>cbg</sub> (lb)
482.50	1030.13	1.000	0.781	1.000	1.000	26483	0.70	6782

Shear perpendicular to edge in y-direction:

V<sub>by</sub> = min[7(l<sub>e</sub>/d<sub>s</sub>)<sup>3/2</sup>λ<sub>a</sub>λ<sub>s</sub>f<sub>c</sub>c<sub>or</sub><sup>1.5</sup>; 9λ<sub>a</sub>f<sub>c</sub>c<sub>or</sub><sup>1.5</sup>] (Eq. 17.7.2.2.1a & Eq. 17.7.2.2.1b)

l <sub>e</sub> (in)	d <sub>s</sub> (in)	λ <sub>a</sub>	f <sub>c</sub> (psi)	c <sub>or</sub> (in)	V <sub>by</sub> (lb)
8.00	1.000	1.00	2500	15.13	26483

φV<sub>cbg</sub> = φ(A<sub>vc</sub>/A<sub>vo</sub>)ε<sub>sc,V</sub>ε<sub>ed,V</sub>ε<sub>cn</sub>ε<sub>cp,V</sub>V<sub>by</sub> (Sec. 17.5.1.2 & Eq. 17.7.2.1b)

A <sub>vc</sub> (in <sup>2</sup> )	A <sub>vo</sub> (in <sup>2</sup> )	ε <sub>sc,V</sub>	ε <sub>ed,V</sub>	ε <sub>cn</sub>	ε <sub>cp,V</sub>	V <sub>by</sub> (lb)	φ	φV <sub>cbg</sub> (lb)
482.50	1030.13	1.000	0.781	1.000	1.000	26483	0.70	6782

Shear parallel to edge in x-direction:

V<sub>bx</sub> = min[7(l<sub>e</sub>/d<sub>s</sub>)<sup>3/2</sup>λ<sub>a</sub>λ<sub>s</sub>f<sub>c</sub>c<sub>or</sub><sup>1.5</sup>; 9λ<sub>a</sub>f<sub>c</sub>c<sub>or</sub><sup>1.5</sup>] (Eq. 17.7.2.2.1a & Eq. 17.7.2.2.1b)

l <sub>e</sub> (in)	d <sub>s</sub> (in)	λ <sub>a</sub>	f <sub>c</sub> (psi)	c <sub>or</sub> (in)	V <sub>bx</sub> (lb)
8.00	1.000	1.00	2500	6.13	6830

φV<sub>cbg</sub> = φ(2)(A<sub>vc</sub>/A<sub>vo</sub>)ε<sub>sc,V</sub>ε<sub>ed,V</sub>ε<sub>cn</sub>ε<sub>cp,V</sub>V<sub>bx</sub> (Sec. 17.5.1.2, 17.7.2.1(c) & Eq. 17.7.2.1b)

A <sub>vc</sub> (in <sup>2</sup> )	A <sub>vo</sub> (in <sup>2</sup> )	ε <sub>sc,V</sub>	ε <sub>ed,V</sub>	ε <sub>cn</sub>	ε <sub>cp,V</sub>	V <sub>bx</sub> (lb)	φ	φV <sub>cbg</sub> (lb)
195.49	169.10	1.000	1.000	1.000	1.000	6830	0.70	11054

Shear parallel to edge in y-direction:

V<sub>by</sub> = min[7(l<sub>e</sub>/d<sub>s</sub>)<sup>3/2</sup>λ<sub>a</sub>λ<sub>s</sub>f<sub>c</sub>c<sub>or</sub><sup>1.5</sup>; 9λ<sub>a</sub>f<sub>c</sub>c<sub>or</sub><sup>1.5</sup>] (Eq. 17.7.2.2.1a & Eq. 17.7.2.2.1b)

l <sub>e</sub> (in)	d <sub>s</sub> (in)	λ <sub>a</sub>	f <sub>c</sub> (psi)	c <sub>or</sub> (in)	V <sub>by</sub> (lb)
8.00	1.000	1.00	2500	6.13	6830

φV<sub>cbg</sub> = φ(2)(A<sub>vc</sub>/A<sub>vo</sub>)ε<sub>sc,V</sub>ε<sub>ed,V</sub>ε<sub>cn</sub>ε<sub>cp,V</sub>V<sub>by</sub> (Sec. 17.5.1.2, 17.7.2.1(c) & Eq. 17.7.2.1b)

A <sub>vc</sub> (in <sup>2</sup> )	A <sub>vo</sub> (in <sup>2</sup> )	ε <sub>sc,V</sub>	ε <sub>ed,V</sub>	ε <sub>cn</sub>	ε <sub>cp,V</sub>	V <sub>by</sub> (lb)	φ	φV <sub>cbg</sub> (lb)
195.49	169.10	1.000	1.000	1.000	1.000	6830	0.70	11054

**10. Concrete Pryout Strength of Anchor in Shear (Sec. 17.7.3)**

φV<sub>cp</sub> = φk<sub>cp</sub>N<sub>no</sub> = φk<sub>cp</sub>(A<sub>nc</sub>/A<sub>no</sub>)ε<sub>sc,N</sub>ε<sub>ed,N</sub>ε<sub>cp,N</sub>N<sub>b</sub> (Sec. 17.5.1.2 & Eq. 17.7.3.1a)

k <sub>cp</sub>	A <sub>nc</sub> (in <sup>2</sup> )	A <sub>no</sub> (in <sup>2</sup> )	ε <sub>sc,N</sub>	ε <sub>ed,N</sub>	ε <sub>cp,N</sub>	N <sub>b</sub> (lb)	φ	φV <sub>cp</sub> (lb)
2.0	113.00	915.67	0.822	1.000	1.000	37671	0.70	5347

**11. Results**

**Interaction of Tensile and Shear Forces (Sec. 17.8)**

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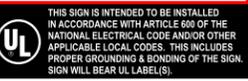
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**C**



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Tension	Factored Load, $N_{ua}$ (lb)	Design Strength, $\phi N_n$ (lb)	Ratio	Status
Steel	1432	26363	0.05	Pass
<b>Concrete breakout</b>	<b>2864</b>	<b>10694</b>	<b>0.27</b>	<b>Pass (Governs)</b>
Pullout	1432	72156	0.02	Pass

Shear	Factored Load, $V_{ua}$ (lb)	Design Strength, $\phi V_n$ (lb)	Ratio	Status
Steel	345	13709	0.03	Pass
T Concrete breakout x+	388	6782	0.06	Pass
T Concrete breakout y-	569	6782	0.08	Pass
Concrete breakout x-	569	11054	0.05	Pass
Concrete breakout y+	388	11054	0.04	Pass
<b>Concrete breakout, combined</b>	<b>-</b>	<b>-</b>	<b>0.10</b>	<b>Pass (Governs)</b>
Pryout	345	5347	0.06	Pass

Interaction check	$N_{ua}/\phi N_n$	$V_{ua}/\phi V_n$	Combined Ratio	Permissible	Status
Sec. 17.8.1	0.27	0.00	26.8%	1.0	Pass

**PAB8 (1"Ø) with hef = 12.000 inch meets the selected design criteria.**

**12. Warnings**

- Designer must exercise own judgement to determine if this design is suitable.

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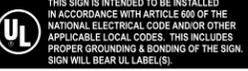
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(678) 725-8852 Fax (210) 349-8724

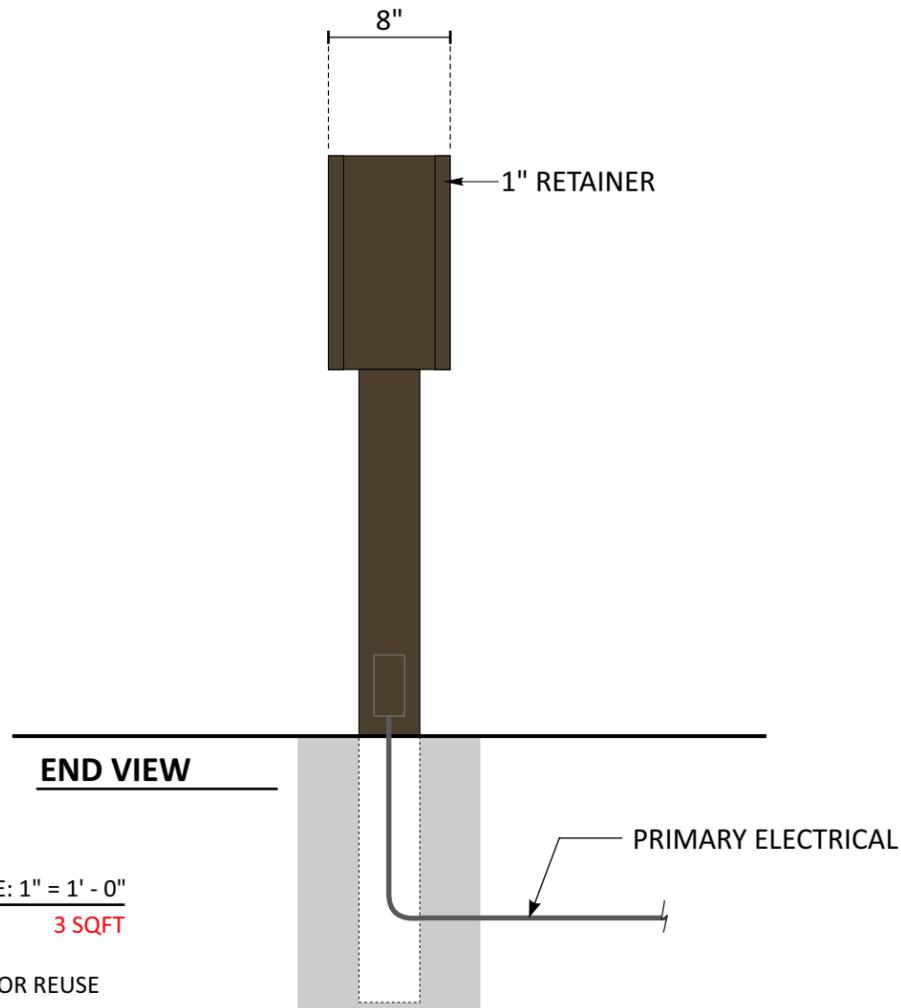
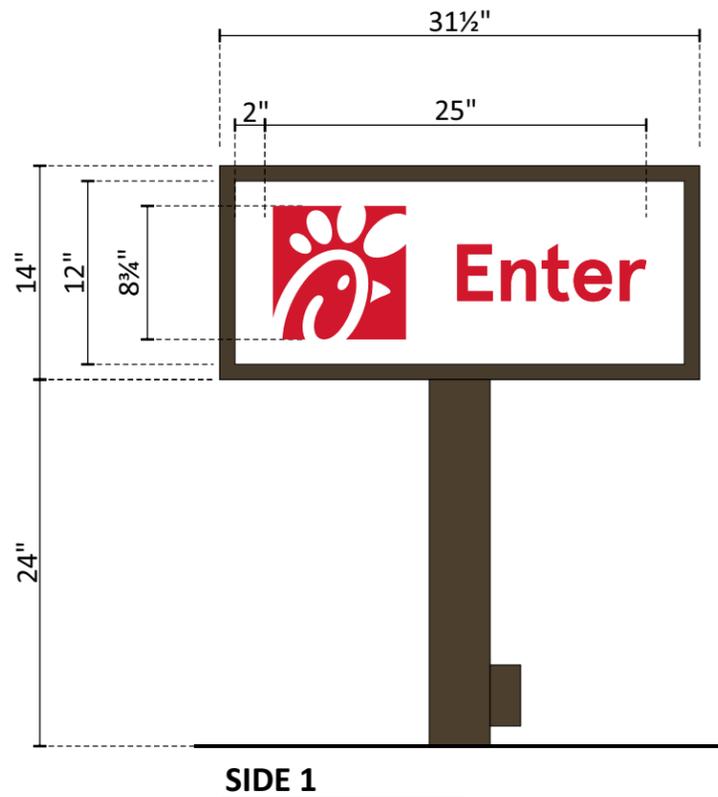
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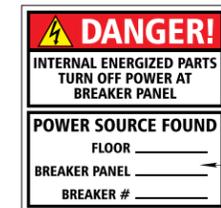
**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



**C**



2014/2017 NEC  
COMPLIANT LABEL



WARNING LABEL/  
BREAKER LOCATION



EXISTING CONDITIONS

**D CFA - D/F DIRECTIONAL** SCALE: 1" = 1' - 0"  
ONE ( 1 ) REMOVAL REQUIRED - MANUFACTURE & INSTALL 3 SQFT

CSI TO REMOVE AND DISCARD EXISTING D/F DIRECTIONAL. CAP ELECTRICAL FOR REUSE

MANUFACTURE AND INSTALL ONE NEW D/F VIS 22 DIRECTIONAL.  
REUSE EXISTING ELECTRICAL.

**GENERAL SPECIFICATIONS**

D/F ALUMINUM SIGN CABINET INTERNALLY ILLUMINATED WITH 6500K  
WHITE LEDS.

FILLER, RETAINER AND SUPPORT PAINTED MATTHEWS #20181 DK  
BRONZE, SATIN.

**ACRYLIC FACES**

#7328 WHITE ACRYLIC DECORATED WITH AVERY UC900-440-T RED  
TRANSLUCENT VINYL (BRAND REQ.) APPLIED 1ST SURFACE.

TEXT TO BE APERCU SENTENCE CASE BOLD

**STEEL POLE**

4" x 4" STEEL SQUARE TUBE SUPPORT

<b>Design #</b>	0637033Ar3
<b>Sheet</b>	20 of 27
<b>Client</b>	#2859
<b>Address</b>	690 NW Blue Pkwy, Lees Summit, MO
<b>Account Rep.</b>	KRISTEN HAMILTON TERRI BROWN
<b>Designer</b>	LEAH LANSFORD
<b>Date</b>	9/29/23
<b>Approval / Date</b>	
<b>Client</b>	
<b>Sales</b>	
<b>Estimating</b>	
<b>Art</b>	
<b>Engineering</b>	
<b>Landlord</b>	
<b>Revision/Date</b>	

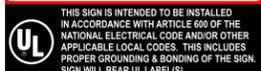
R1(12:22:23)LL: CHANGED SIZE OF PANELS ON THE SIGNAGE  
R2(1/16/24)LL: ADDED STAMPED ENGINEERING  
CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT OF REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4  
R3(02/26/2024)AM: UPDATED SP ADDED NOTE FOR SIGN A FOR CSI TO PROVIDE NEW STEEL AND FOUNDATION AND ADDED NOT FOR SIGN D FOR CSI TO REMOVE AND DISCARD EXISTING D/F DIRECTIONAL



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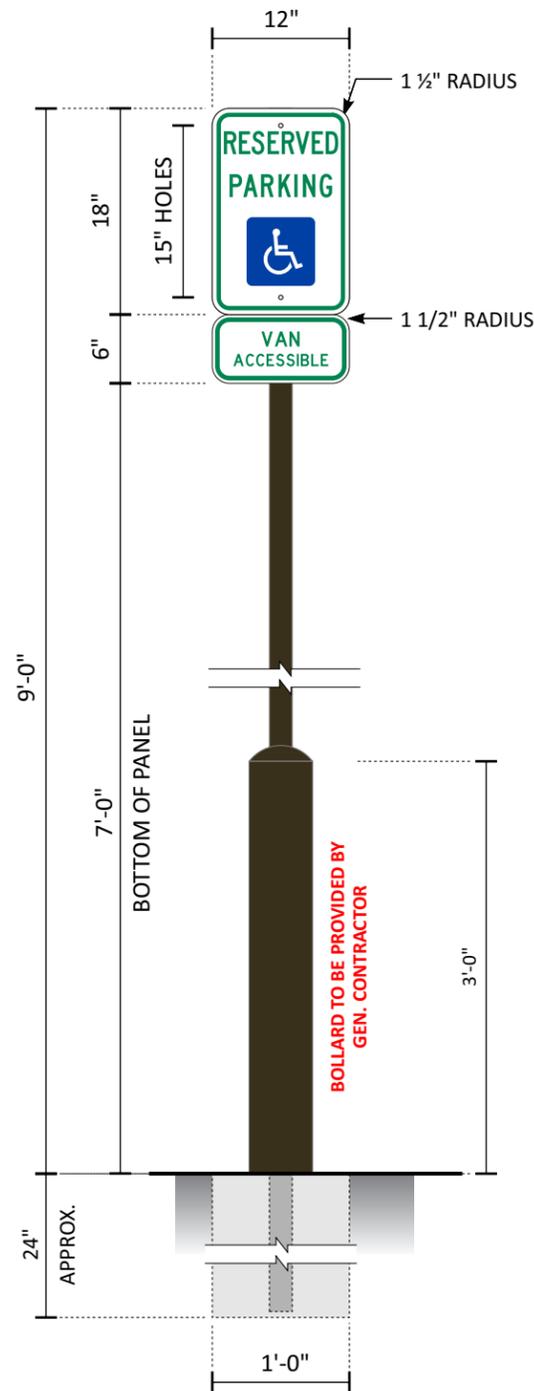
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



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06/13/2024

**D**



## BOLLARD MOUNTED HANDICAP SIGNS

### SPECIFICATIONS

#### SIGN PANELS

.080 ALUMINUM WITH BACKS PAINTED MATTHEWS #20181 DARK BRONZE, SATIN AND REFLECTIVE VINYL GRAPHICS APPLIED 1ST SURFACE.

SIGN PANELS ARE TO BE SECURED TO SIGN POST WITH NUTS AND BOLTS PAINTED TO MATCH VINYL BACKGROUND

#### SIGN POST

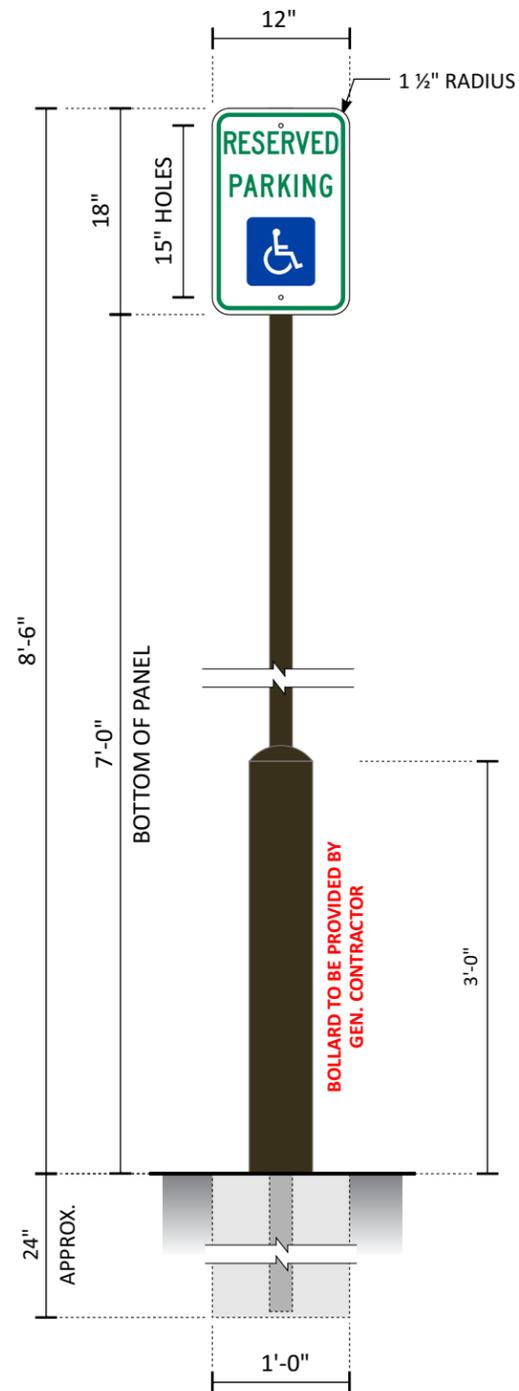
2" x 2" x .125"(WALL) ALUMINUM SQ. TUBE, CAPPED ON TOP WITH PUSH IN PLASTIC CAP PAINTED MATTHEWS #20181 DARK BRONZE, SATIN. CAP IS A BUYOUT FROM MCMASTER CARR #9565K31 INVENTORY #02948

#### BOLLARD - TO BE PROVIDED BY GEN.CONTRACTOR

5 9/16" O.D. x .280 WALL THICKNESS STEEL PIPE.

BOLLARD AND CONCRETE TOP TO BE PAINTED MATTHEWS #20181 DARK BRONZE, SATIN. INSTALLER TO PROVIDE PAINT.

**DAL - MANUFACTURING**  
**MUTCD PANEL - UPPERCASE**



### F CFA - S/F HC SIGN

ONE ( 1 ) REQUIRED - MANUFACTURE AND INSTALL

SCALE: 3/4" = 1'-0"

1.5 SQ. FT.

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**DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL**

<b>Design #</b>	
0637033Ar3	
<b>Sheet</b>	21 of 27
<b>Client</b>	
#2859	
<b>Address</b>	
690 NW Blue Pkwy, Lees Summit, MO	
<b>Account Rep.</b>	KRISTEN HAMILTON TERRI BROWN
<b>Designer</b>	LEAH LANSFORD
<b>Date</b>	9/29/23
<b>Approval / Date</b>	
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<b>Landlord</b>	
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R2(1/16/24)LL: ADDED STAMPED ENGINEERING	
CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT OF REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4	
R3(02/26/2024)AM: UPDATED SP ADDED NOTE FOR SIGN A FOR CSI TO PROVIDE NEW STEEL AND FOUNDATION AND ADDED NOT FOR SIGN D FOR CSI TO REMOVE AND DISCARD EXISTING DIF DIRECTIONAL	
<b>CHANDLER SIGNS</b>	
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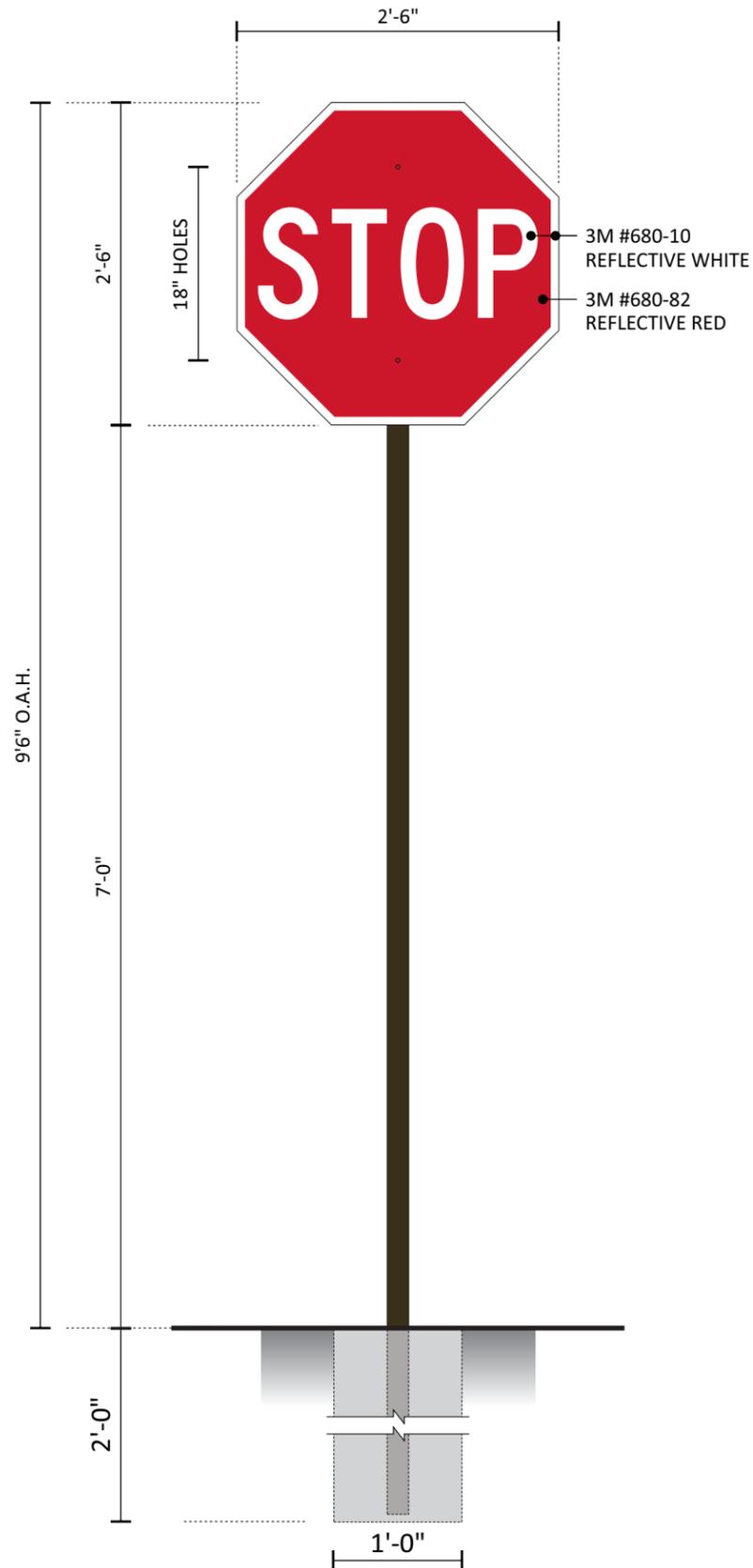
**E1-2, F**

### E1 E2 CFA - S/F HCVA SIGN

TWO ( 2 ) REQUIRED - MANUFACTURE AND INSTALL

SCALE: 3/4" = 1'-0"

2 SQ. FT.



**G1 G2**

**CFA - DOT S/F STOP SIGN**

SCALE: 3/4" = 1'-0"

TWO ( 2 ) REMOVALS REQUIRED - MANUFACTURE AND INSTALL

5 SQ. FT.

G.C. TO REMOVE AND DISCARD EXISTING STOP SIGNS IN PARKING LOT LANDSCAPING.

MANUFACTURE AND INSTALL TWO NEW S/F VIS 22 STOP SIGNS.

**SPECIFICATIONS**

**SIGN PANELS**

.080 ALUMINUM PANELS WITH BACKS PAINTED MATTHEWS #20181 DK. BRONZE, SATIN AND REFLECTIVE VINYL GRAPHICS APPLIED 1ST SURFACE.

SIGN PANEL IS TO BE SECURED TO SIGN POST WITH NUTS AND BOLTS PAINTED TO MATCH VINYL BACKGROUND

**SIGN POST**

2" x 2" x .125"(WALL) ALUMINUM SQ. TUBE, CAPPED ON TOP WITH PUSH IN PLASTIC CAP PAINTED MATTHEWS #20181 DARK BRONZE, SATIN. CAP IS A BUYOUT FROM MCMASTER CARR #9565K31 INVENTORY #02948

**NOTE:**

IF SIGN IS LOCATED ON SIDEWALK, THEN IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INSTALL A PVC SLEEVE INTO THE CONCRETE WHEN THE SIDEWALK IS POURED PRIOR TO INSTALLATION OF THE SIGN.

**DAL - MANUFACTURING**  
**MUTCD PANEL - UPPERCASE**



EXISTING CONDITIONS



EXISTING CONDITIONS

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**DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL**

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<b>Client</b>	
#2859	
<b>Address</b>	
690 NW Blue Pkwy, Lees Summit, MO	
<b>Account Rep.</b>	KRISTEN HAMILTON TERRI BROWN
<b>Designer</b>	LEAH LANSFORD
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<b>Approval / Date</b>	
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R3(02/26/2024)AM: UPDATED SP ADDED NOTE FOR SIGN A FOR CSI TO PROVIDE NEW STEEL AND FOUNDATION AND ADDED NOT FOR SIGN D FOR CSI TO REMOVE AND DISCARD EXISTING DIF DIRECTIONAL	



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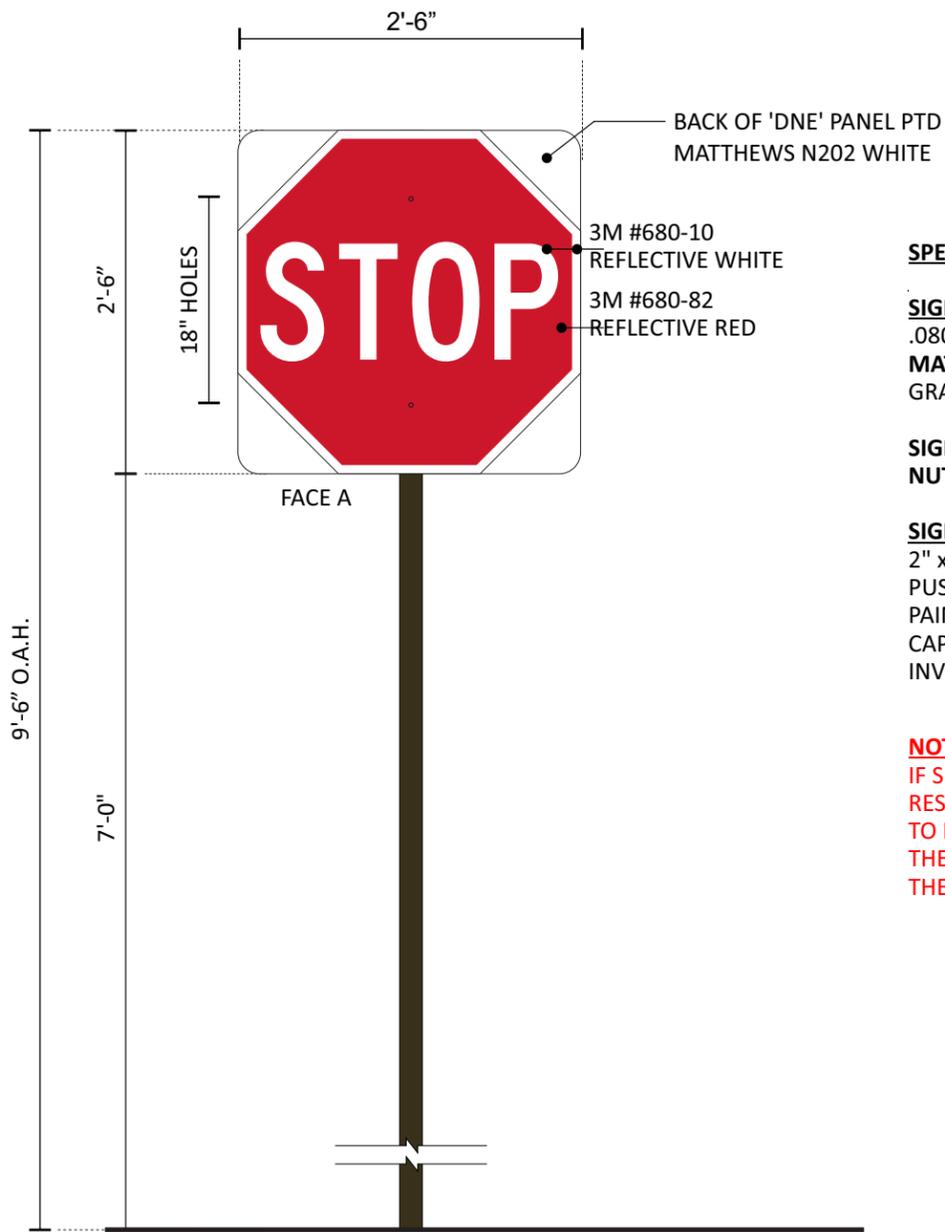
**FINAL ELECTRICAL CONNECTION BY CUSTOMER**

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G1-2

DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL



**SPECIFICATIONS**

**SIGN PANELS**

.080 ALUMINUM PANELS WITH BACKS PAINTED MATTHEWS N202 WHITE, SATIN AND REFLECTIVE VINYL GRAPHICS APPLIED 1ST SURFACE.

SIGN PANEL IS TO BE SECURED TO SIGN POST WITH NUTS AND BOLTS PAINTED TO MATCH VINYL BACKGROUND

**SIGN POST**

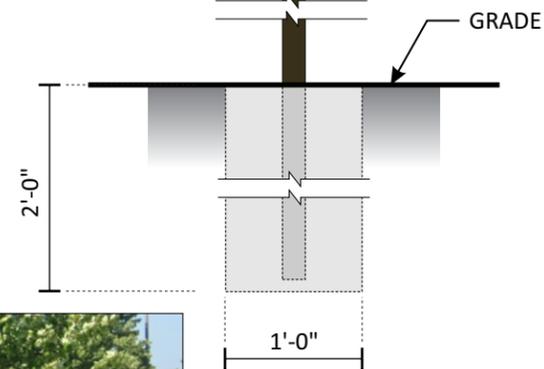
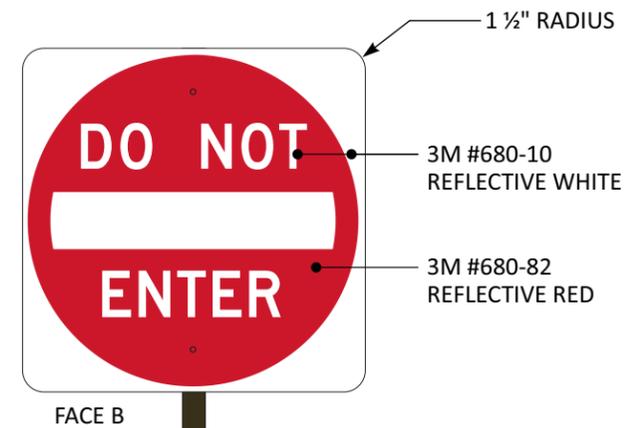
2" x 2" x .125"(WALL) ALUMINUM SQ. TUBE, CAPPED ON TOP WITH PUSH IN PLASTIC CAP.  
 PAINTED MATTHEWS #20181 DARK BRONZE, SATIN.  
 CAP IS A BUYOUT FROM MCMMASTER CARR #9565K31 INVENTORY #02948

**NOTE:**

IF SIGN IS LOCATED ON SIDEWALK, THEN IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INSTALL A PVC SLEEVE INTO THE CONCRETE WHEN THE SIDEWALK IS POURED PRIOR TO INSTALLATION OF THE SIGN.

DAL - MANUFACTURING  
 MUTCD PANEL - UPPERCASE

TOP VIEW SCALE: 3/4" = 1'-0"



**H1-4 D/F STOP/DNE POST AND PANEL** SCALE: 3/4" = 1'-0"  
 FOUR ( 4 ) REMOVALS REQUIRED - MANUFACTURE AND INSTALL 4 SQ. FT.

G.C. TO REMOVE TWO ( 2 ) D/F STOP/DNE, AND TWO ( 2 ) S/F STOP SIGNS FROM PARKING LOT LANDSCAPING.

MANUFACTURE AND INSTALL FOUR ( 4 ) NEW STOP/DNE SIGNS.



EXISTING CONDITIONS

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 Lee's Summit, Missouri  
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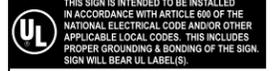
<b>Design #</b>	
0637033Ar3	
<b>Sheet</b>	23 of 27
<b>Client</b>	
#2859	
<b>Address</b>	
690 NW Blue Pkwy, Lees Summit, MO	
<b>Account Rep.</b>	KRISTEN HAMILTON TERRI BROWN
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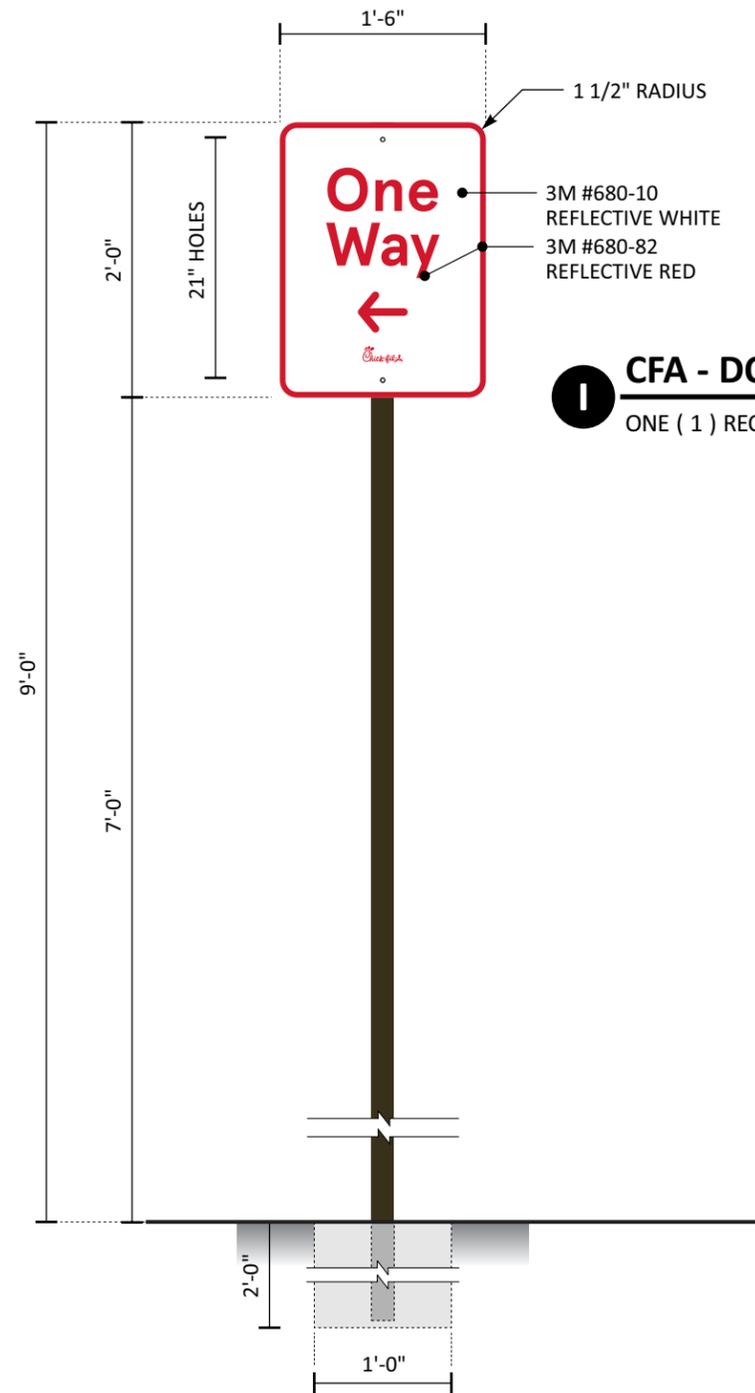
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



**H1-4**

**DAL - MANUFACTURING  
NEW CFA WAYFINDING PANELS**



**1 CFA - DOT S/F DRIVE THRU WITH ARROW POST AND PANEL** SCALE: 3/4" = 1'-0"  
 ONE ( 1 ) REQUIRED - MANUFACTURE AND INSTALL 7 SQ. FT.

**SPECIFICATIONS**

**SIGN PANEL**

.080 ALUMINUM PANEL WITH BACK PAINTED MATTHEWS #20181 DK. BRONZE, SATIN AND REFLECTIVE VINYL GRAPHICS APPLIED 1ST SURFACE.

**SIGN PANEL IS TO BE SECURED TO SIGN POST WITH NUTS AND BOLTS PAINTED TO MATCH VINYL BACKGROUND**

**SIGN POST**

2" x 2" x .125"(WALL) ALUMINUM SQ. TUBE, CAPPED ON TOP WITH PUSH IN PLASTIC CAP PAINTED MATTHEWS #20181 DARK BRONZE, SATIN.  
 CAP IS A BUYOUT FROM MCMASTER CARR #9565K31 INVENTORY #02948

**NOTE:**

IF SIGN IS LOCATED ON SIDEWALK, THEN IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INSTALL A PVC SLEEVE INTO THE CONCRETE WHEN THE SIDEWALK IS POURED PRIOR TO INSTALLATION OF THE SIGN.

**DAL - MANUFACTURING  
MUTCD PANEL - UPPERCASE**

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**DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL**

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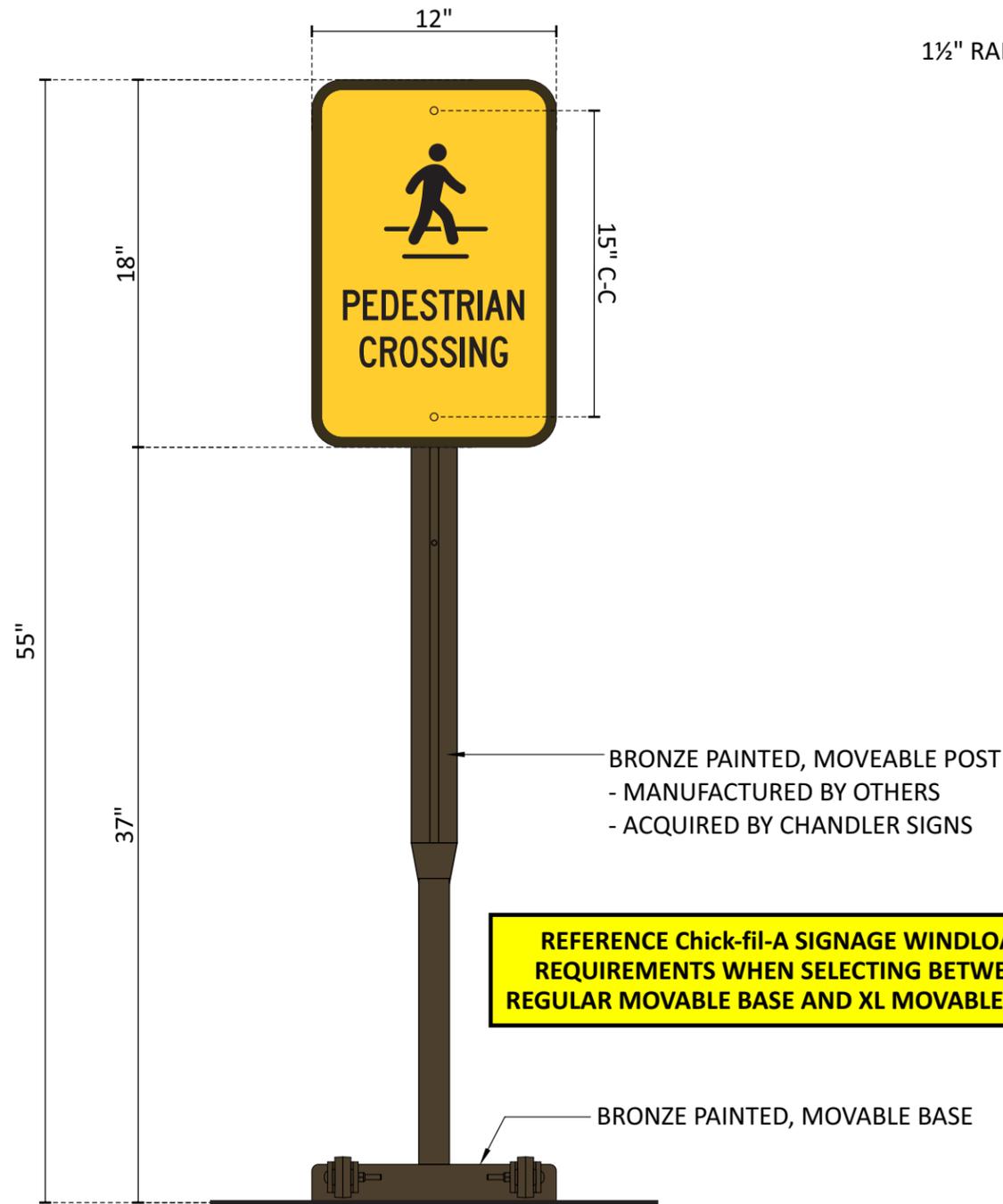
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**REFERENCE Chick-fil-A SIGNAGE WINDLOAD REQUIREMENTS WHEN SELECTING BETWEEN REGULAR MOVABLE BASE AND XL MOVABLE BASE**



**PANEL DETAIL - PEDESTRIAN CROSSING**  
SCALE: 3" = 1'-0"

- .080" ALUMINUM PANEL - FRONT, SIDES AND BACK PAINTED MATTHEWS #20181, DARK BRONZE, SATIN
- 3M #680-71 REFLECTIVE YELLOW VINYL
- WEEDED OUT/SHOW THRU GRAPHICS (DARK BRONZE PANEL SHOWS THRU REFLECTIVE YELLOW)

**J SAFETY SIGN - PEDESTRIAN CROSSING** SCALE: 1-1/2" = 1'-0"  
ONE ( 1 ) REQUIRED - MANUFACTURE & INSTALL

PLEASE NOTE: PORTABLE BASE AND POST PROVIDED BY PATTISON.

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**CHANDLER SIGNS**

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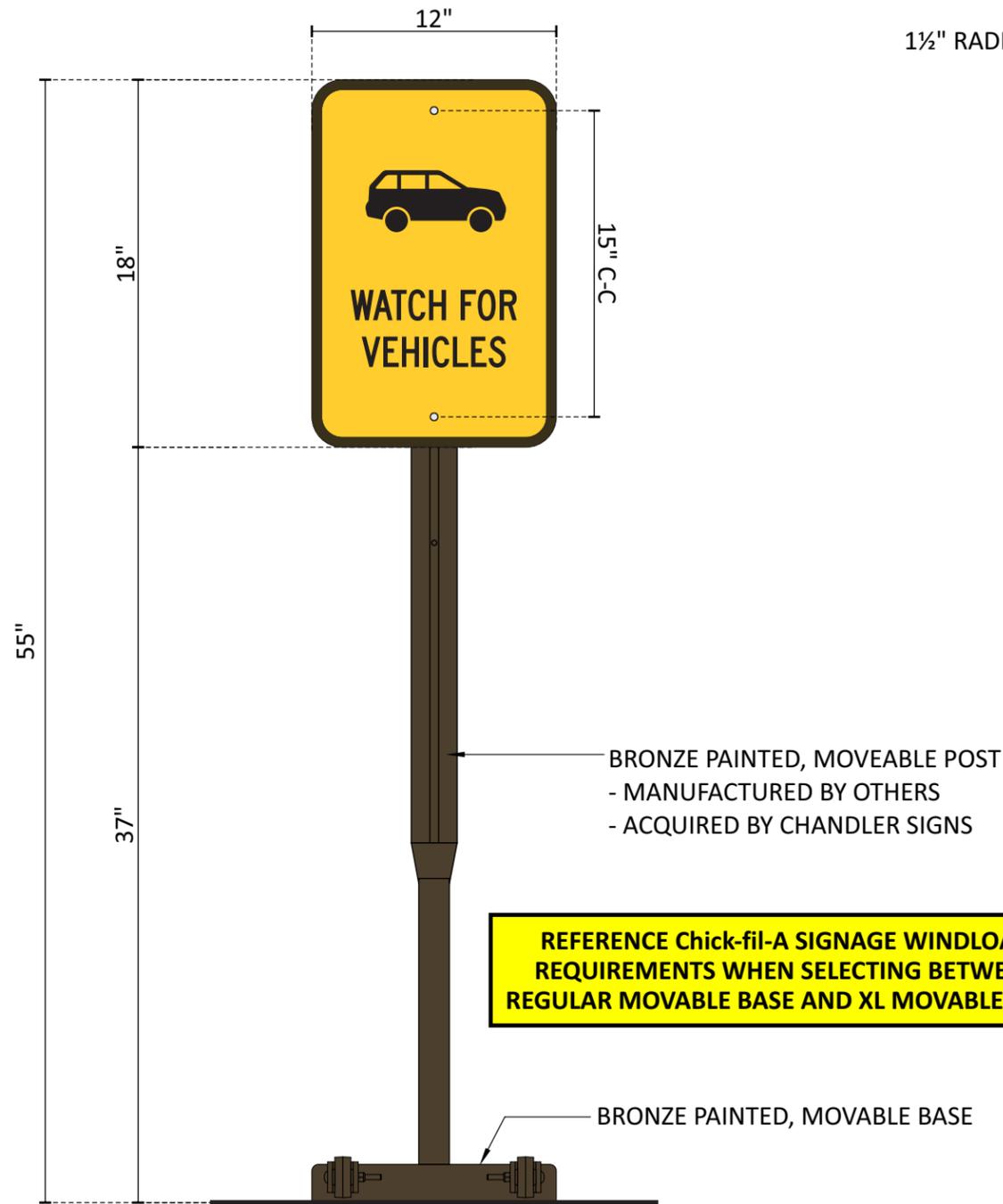
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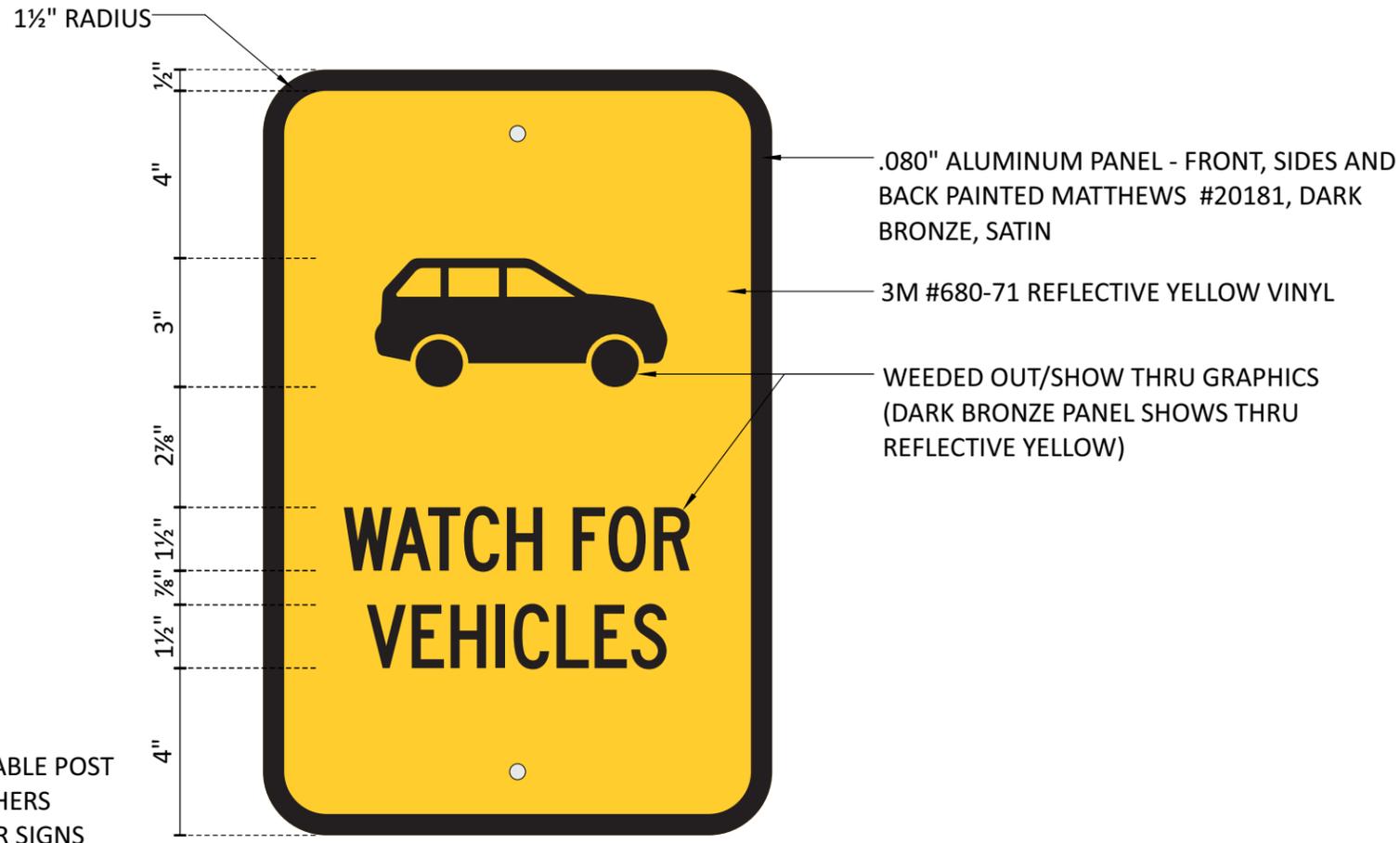
**Chick-fil-A**

**J**



**REFERENCE Chick-fil-A SIGNAGE WINDLOAD REQUIREMENTS WHEN SELECTING BETWEEN REGULAR MOVABLE BASE AND XL MOVABLE BASE**

**PANEL DETAIL - WATCH FOR VEHICLES**  
SCALE: 3" = 1'-0"



**K SAFETY SIGN - WATCH FOR VEHICLES** SCALE: 1-1/2" = 1'-0"  
ONE ( 1 ) REQUIRED - MANUFACTURE & INSTALL

PLEASE NOTE: PORTABLE BASE AND POST PROVIDED BY PATTISON.

**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024

**DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL**

<b>Design #</b>	<b>0637033Ar3</b>
<b>Sheet</b>	26 of 27
<b>Client</b>	#2859
<b>Address</b>	690 NW Blue Pkwy, Lees Summit, MO
<b>Account Rep.</b>	KRISTEN HAMILTON TERRI BROWN
<b>Designer</b>	LEAH LANSFORD
<b>Date</b>	9/29/23
<b>Approval / Date</b>	
<b>Client</b>	
<b>Sales</b>	
<b>Estimating</b>	
<b>Art</b>	
<b>Engineering</b>	
<b>Landlord</b>	

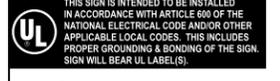
Revision/Date	
R1(12:22:23)LL: CHANGED SIZE OF PANELS ON THE STOPLINE	
R2(1/16/24)LL: ADDED STAMPED ENGINEERING	
CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT OF REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4	
R3(02/26/2024)AM: UPDATED SP ADDED NOTE FOR SIGN A FOR CSI TO PROVIDE NEW STEEL AND FOUNDATION AND ADDED NOT FOR SIGN D FOR CSI TO REMOVE AND DISCARD EXISTING DIF DIRECTIONAL	



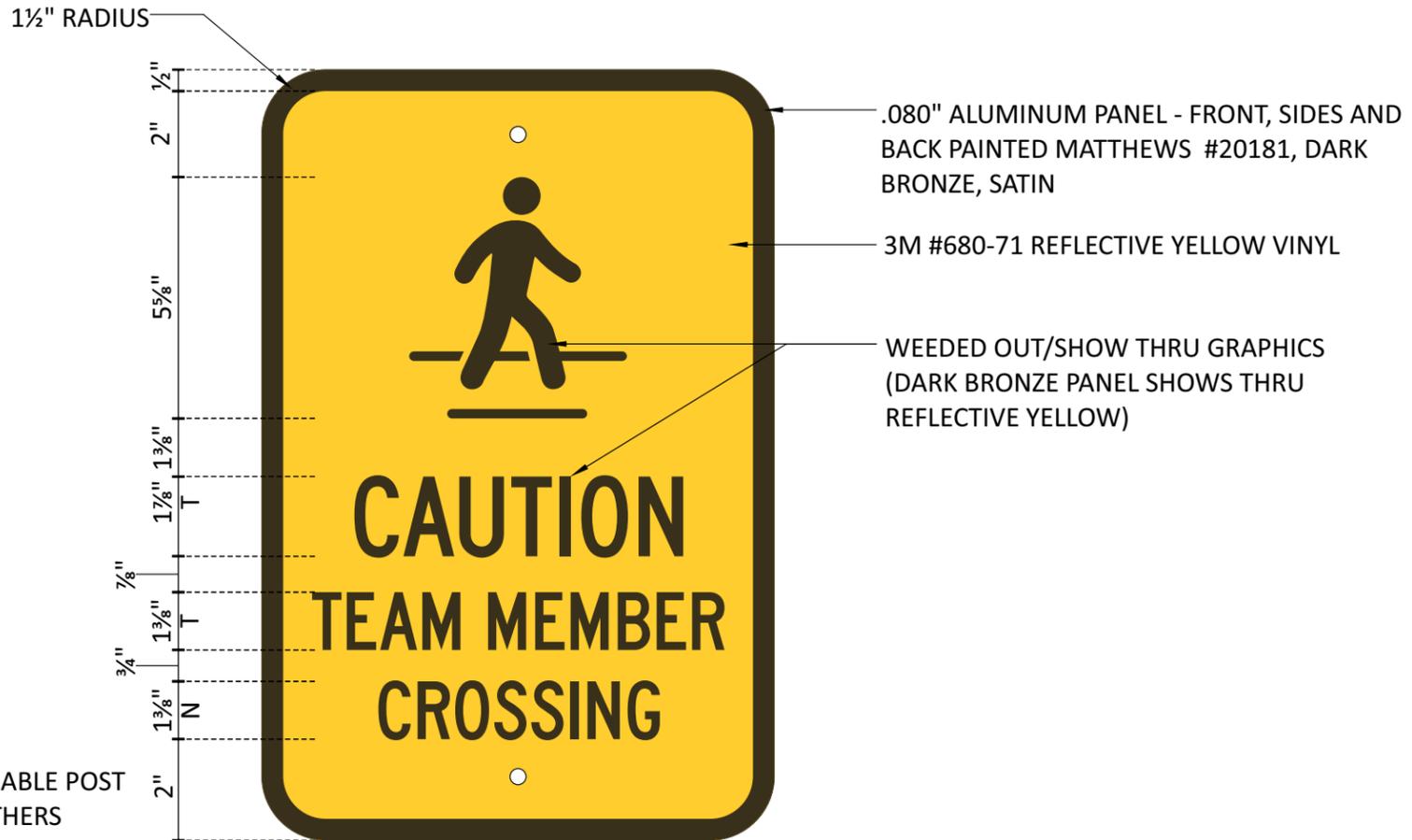
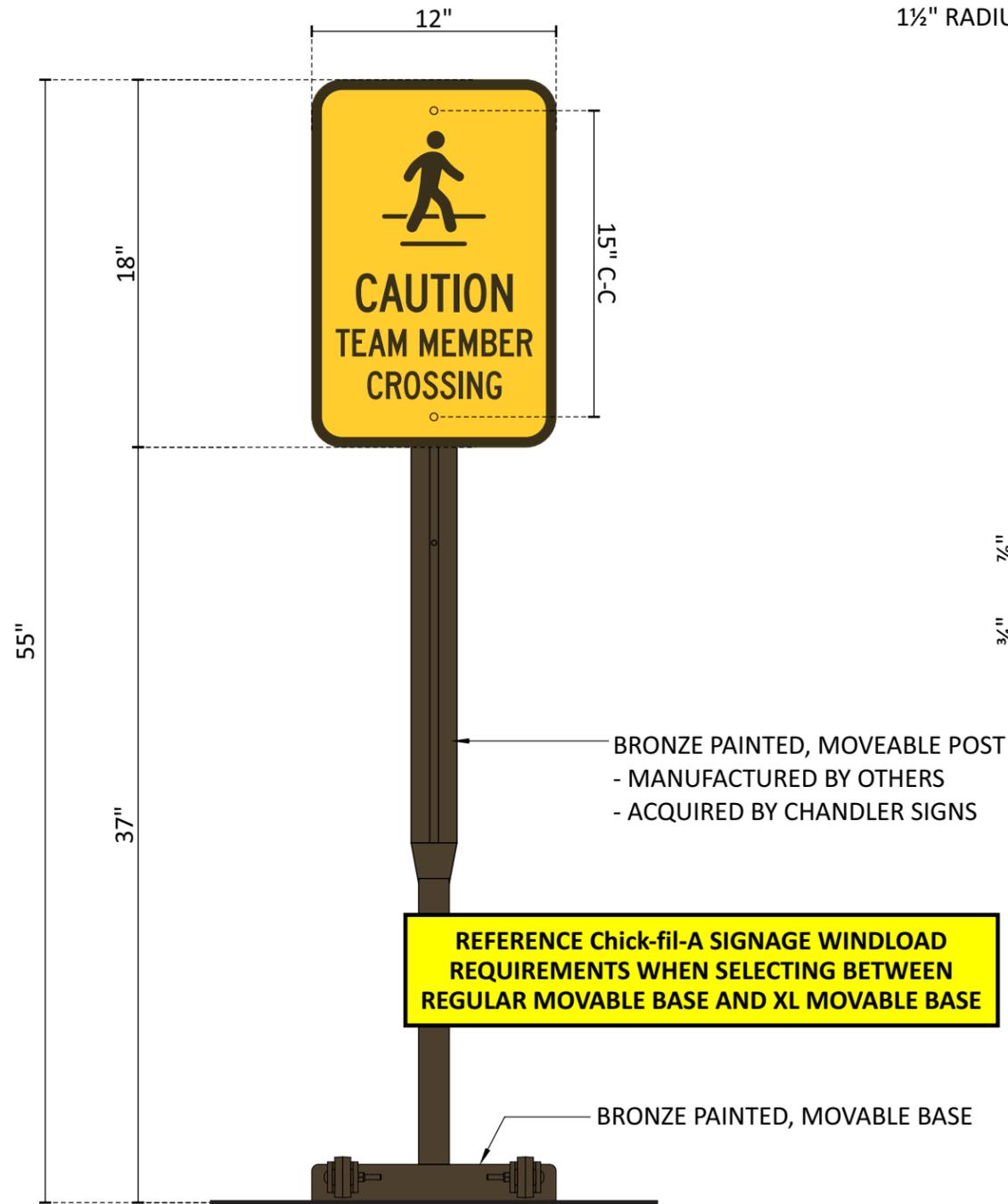
<b>National Headquarters</b>	14201 Sovereign Road #101 Fort Worth, TX 76155 (214)902-2000 Fax(214)902-2044
<b>San Antonio</b>	17319 San Pedro Ave Ste 200 San Antonio, TX 78232 (210)349-3804 Fax (210)349-8724
<b>Northeast US</b>	2301 River Road Ste 201 Louisville, KY 40206 (502) 897-5800 Cell (502) 554-2575
<b>Georgia</b>	111 Woodstone Place Dawsonville, GA 30534 (678) 725-8852 Fax (210) 349-8724
<b>South Texas</b>	PO BOX 125 206 Doral Drive Portland, TX 78374 (361) 563-6599 Fax (361) 643-6533

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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



**K**



**PANEL DETAIL**  
SCALE: 3" = 1'-0"

**L1 L2 SAFETY SIGN - TEAM MEMBER CROSSING** SCALE: 1-1/2" = 1'-0"  
TWO ( 2 ) REQUIRED - MANUFACTURE & INSTALL

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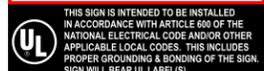
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



L1-2