

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@sug.com

ELECTRIC SERVICE

KCP & L  
1300 SE HAMBLIN 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

- GENERAL NOTES
1. 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.

2. ALL DISTURBED GREEN AREAS SHALL BE TOP DRESSED AND RE-SEEDED.

3. CALL MISSOURI ONE CALL, 811, 48 HOURS PRIOR TO CONSTRUCTION.

4. ALL STORM SEWERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) SMOOTH LINED PIPE MEETING AASHTO M294 (UNLESS OTHERWISE STATED), TYPE S MAY BE USED.

5. EARTHWORK AND SITE PREPARATION SHALL BE AS SPECIFIED IN THE SOILS REPORT.

6. ELECTRICAL CONDUIT SHALL BE AS REQUIRED BY THE POWER COMPANY.

7. TELEPHONE CONDUIT SHALL BE AS REQUIRED BY THE PHONE COMPANY.

8. GAS SERVICE SHALL BE AS REQUIRED BY THE GAS COMPANY.

9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS IN THE ENGINEERING AND BUILDING DEPARTMENTS.

10. ROOF DRAINS MUST BE CONNECTED DIRECTLY TO THE STORM SEWER.

11. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL SILTATION CONTROL MEASURES NECESSARY TO PREVENT SILT FROM LEAVING THE SITE.

12. THE CONTRACTOR IS RESPONSIBLE FOR LEGAL REMOVAL OF DEMOLITION MATERIAL AND DEBRIS.

13. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION, OR BETTER.

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

15. PRICES BID PER FOOT FOR ALL PIPES IS COMPLETE IN PLACE REGARDLESS OF SOIL OR ROCK CONDITIONS.

16. TEMPORARY SOIL EROSION AND SEDIMENT CONTROL WILL BE REQUIRED IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT ENGINEERING DEPARTMENT.

17. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CITY ENGINEER AND PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.

18. 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.

19. 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.

20. 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.

21. 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.

22. 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.

23. ALL SANITARY SEWERS SHALL CONSIST OF PVC SDR-35 MEETING ASTM D-3034 WITH JOINTS CONFORMING TO ASTM D-3212 UNLESS OTHERWISE NOTED.

24. ALL ASPHALT MATERIALS SHALL CONFORM TO THE KOMMB ASPHALT MATERIAL SPECIFICATION, CURRENT EDITION.



Chick-fil-A

SUMMIT FAIR FSU

STORE #2859

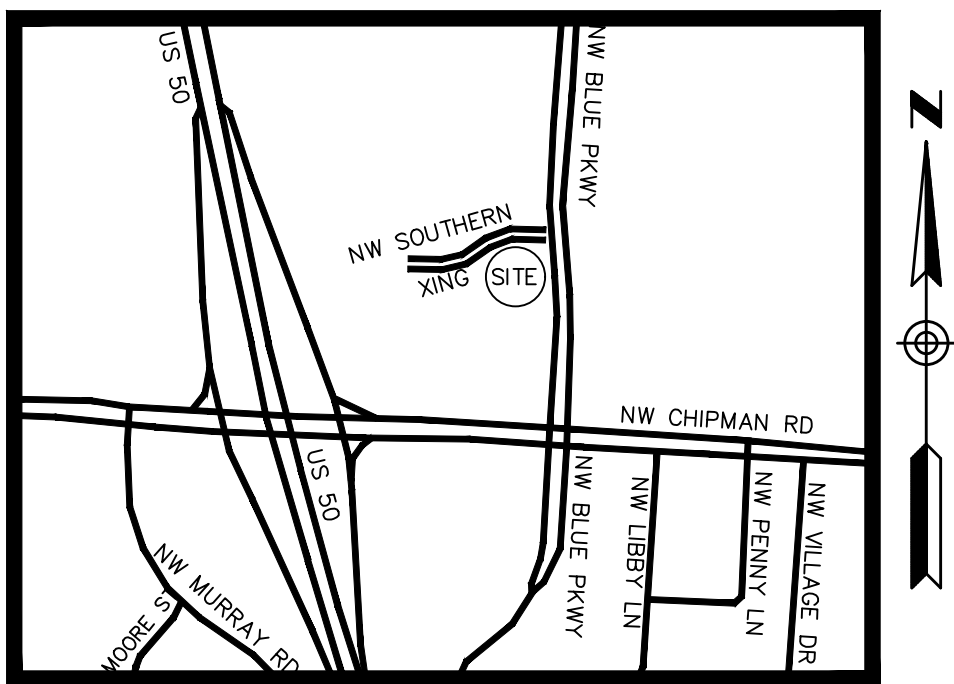
SITE PLAN DOCUMENTS

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

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PRCOM20236522

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

STATE OF MISSOURI

JARY R. ROUSE

NUMBER

PE-2007055384

PROFESSIONAL ENGINEER

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

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

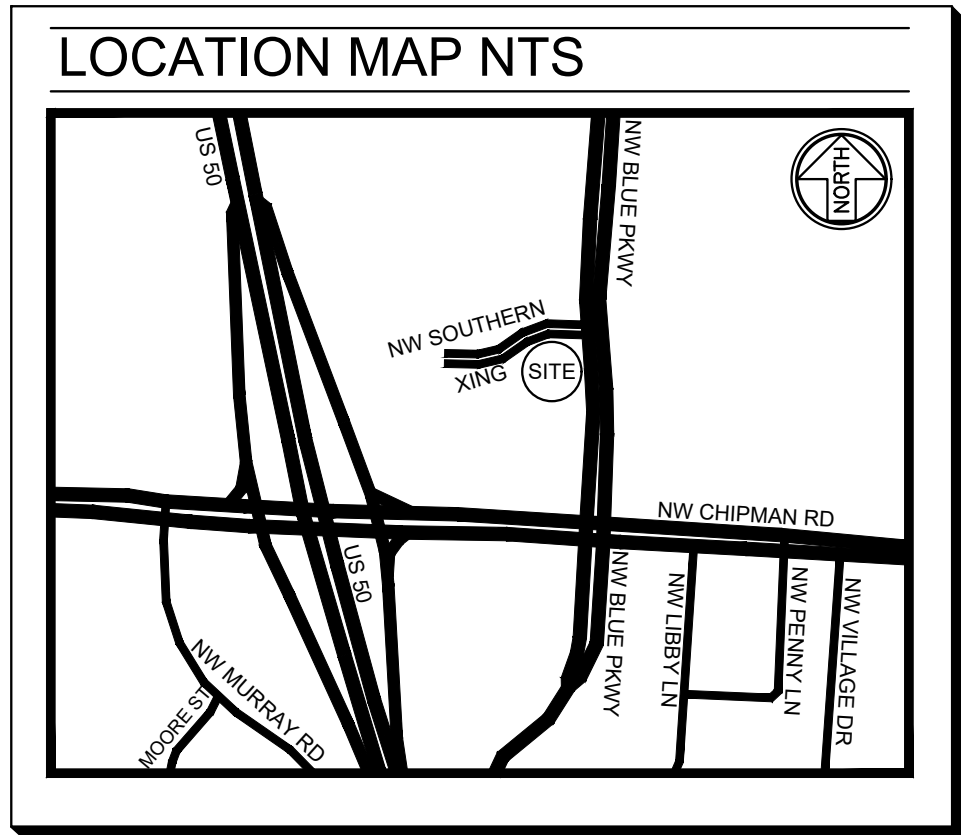
TITLE SHEET

SHEET NUMBER

C-000

Permit





## CLIENT INFORMATION

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

## 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

## 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

## LAND DESCRIPTION:

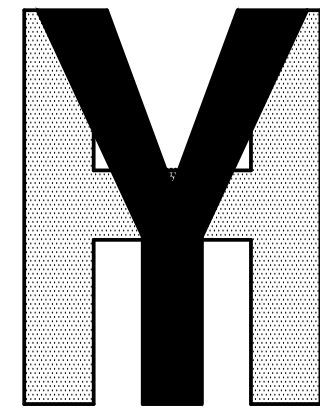
LOT 28, MINOR PLAT OF SUMMIT FAIR, LOTS 28, 29 AND 30, A SUBDIVISION IN THE  
CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE  
RECORDED PLAT THEREOF, RECORDED FEBRUARY 9, 2010, AS DOCUMENT NO.  
2010E0012640, IN PLAT BOOK 131 AT PAGE 66.

## BOUNDARY NOTE:

THIS SURVEY IS A RETRACEMENT OF THE CHICK-FIL-A INC. PROPERTY  
(RECORDED IN DOC. 2012E0023733) ALTA/NSPS SURVEY CONDUCTED BY  
SHERRILL ASSOCIATES, INC. DATED FEBRUARY 27, 2012. EASEMENTS  
SHOWN HEREON ARE TAKEN FROM SAID ALTA/NSPS 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. 2012E0041514.

PRELIMINARY,  
NOT FOR  
RECORDING OR  
TRANSFER



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

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

## 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 OF 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 AN 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 22095C0417G, 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.GEOID18).

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 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)



**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**  
LEE'S SUMMIT, MO

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

**FSU# 2859**

REVISION	SCHEDULE	DESCRIPTION
NO.	DATE	

GBC PROJECT #  
PRINTED FOR  
DATE 6 / 13/23  
DRAWN BY KAB/CLH

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authorized project representatives.

AS-BUILT  
SURVEY

SHEET 1 OF 1

SHEET NUMBER

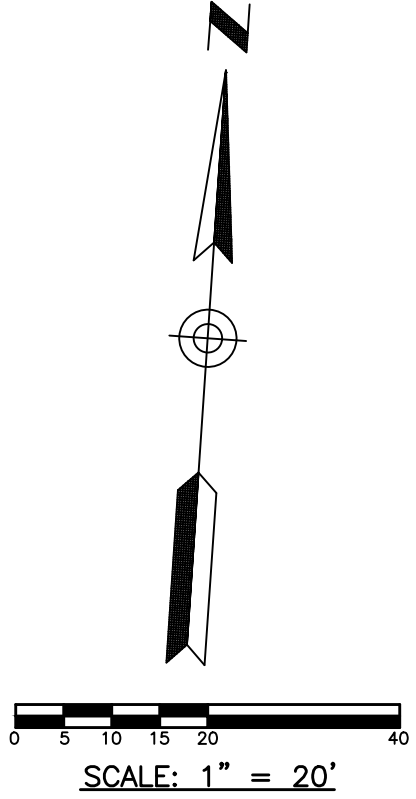
**C-010**



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

- 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  
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.  
TOP 1019.06  
INV. 1012.66, 18" S  
INV. 1012.66, 24" E
- EX. CURB INLET M.H.  
TOP 1017.77  
INV. 1012.32, 24" W  
INV. 1012.32, 24" N
- EX. STM. M.H.  
TOP 1018.05  
INV. 1012.00, 24" S  
INV. 1012.00, 24" N
- 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

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

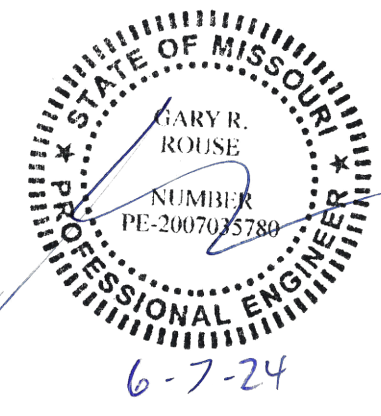


Chick-fil-A

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

GBC DESIGN, INC.

Akron, OH 44320-1123  
565 White Pond Dr.  
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	
1	3/14/2024	ISSUED FOR BID

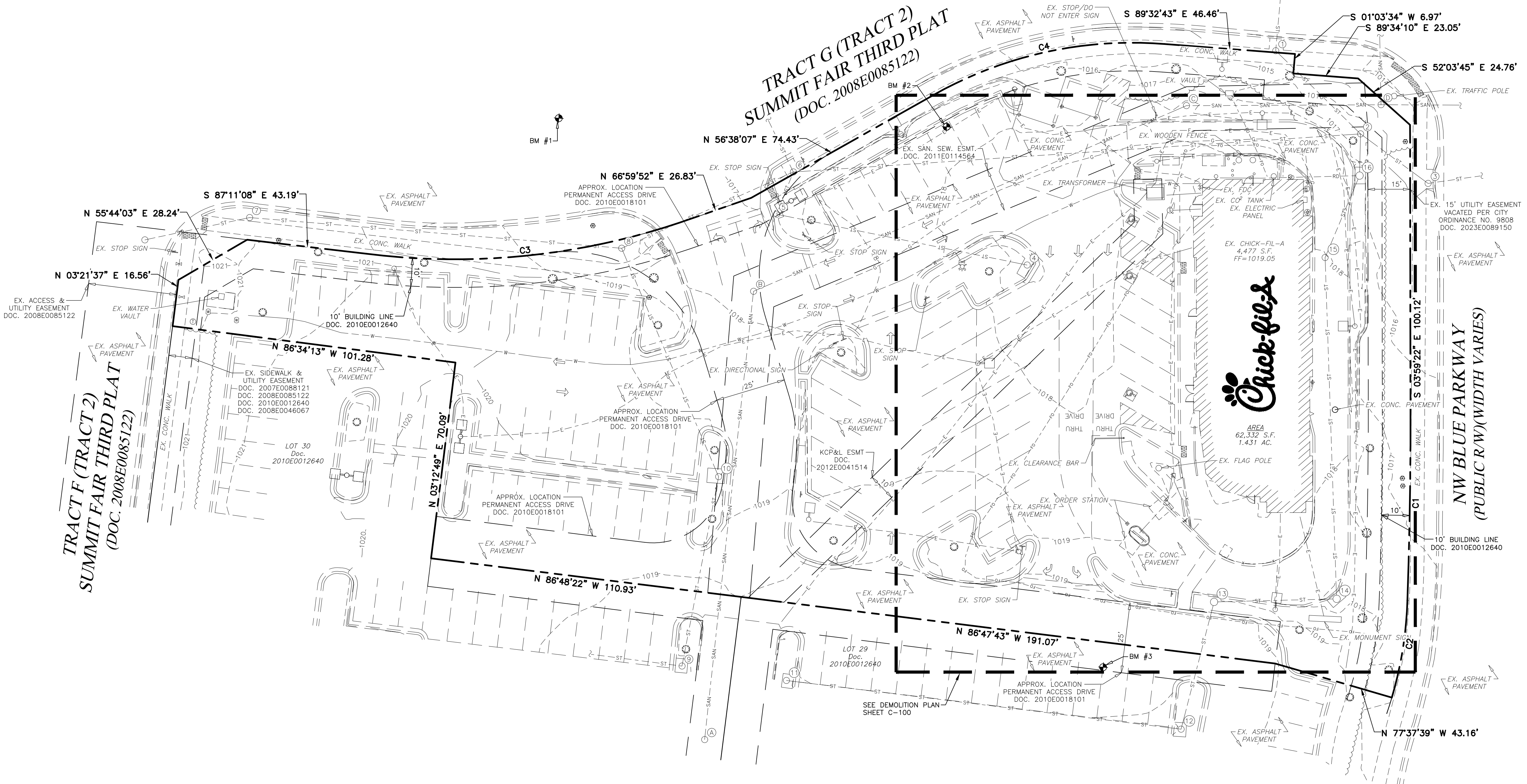
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SHEET  
EXISTING  
CONDITIONS  
PLAN

SHEET NUMBER

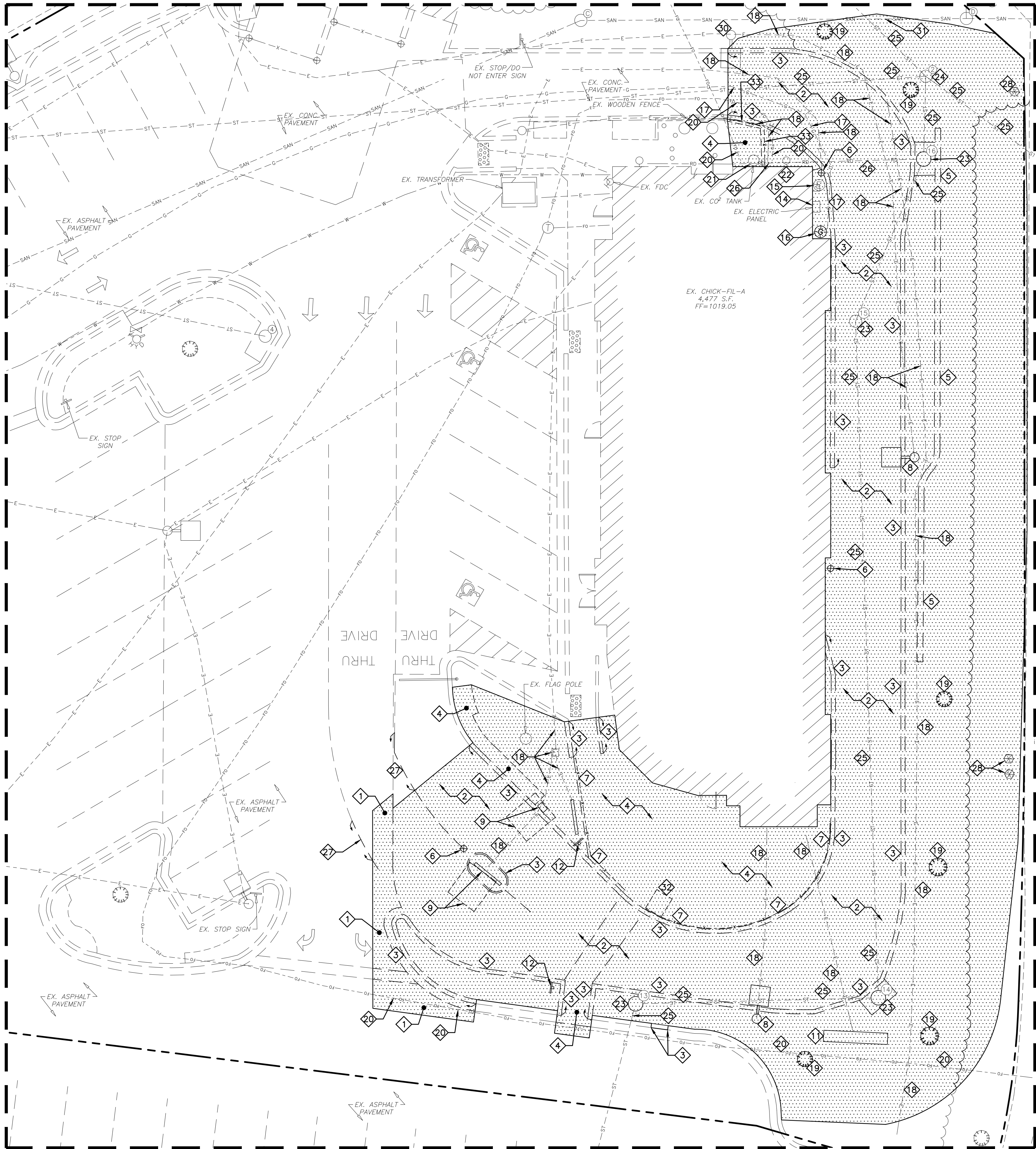
C-100





DEMOLITION NOTES

- EXISTING ASPHALT PAVEMENT TO BE SAWCUT FULL DEPTH AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- EXISTING CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- EXISTING CONCRETE CURB TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- EXISTING CONCRETE SIDEWALK TO BE SAWCUT AT NEAREST JOINT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- EXISTING WALL TO BE REMOVED
- EXISTING BOLLARD TO BE REMOVED
- EXISTING RAILING TO BE REMOVED
- EXISTING LIGHT POLE & ASSOCIATED UTILITIES TO BE RELOCATED
- EXISTING ORDER STATION & ASSOCIATED UTILITIES TO BE REMOVED
- EXISTING HYDRANT ASSEMBLY TO BE RELOCATED
- EXISTING MONUMENT SIGN & ASSOCIATED UTILITIES TO BE RELOCATED
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO REMAIN
- EXISTING UTILITY PANEL TO REMAIN
- EXISTING ELECTRIC METER TO REMAIN
- EXISTING GAS METER TO BE REPLACED BY GAS COMPANY
- EXISTING GAS SERVICE TO REMAIN
- EXISTING ELECTRIC TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING COMMUNICATIONS TO REMAIN
- EXISTING CO2 TANK TO REMAIN
- EXISTING DOWNSPOUT TO REMAIN
- EXISTING STORM STRUCTURE TO REMAIN. CONTRACTOR TO MODIFY EXISTING STRUCTURE TO PROPOSED CONDITIONS SHOWN ON SHEET C-300
- EXISTING STORM STRUCTURE TO REMAIN. CONTRACTOR TO REPLACE SOLID MANHOLE COVER WITH HEAVY DUTY OPEN GRATE COVER.
- EXISTING STORM SEWER TO REMAIN
- EXISTING ROOF DRAIN TO REMAIN
- EXISTING PAINT STRIPING TO BE BLACKED OUT AS NEEDED FOR NEW LAYOUT
- EXISTING IRRIGATION TO REMAIN
- EXISTING WATER LINE TO REMAIN
- EXISTING LIGHT POLE TO REMAIN
- EXISTING SANITARY SEWER TO REMAIN
- EXISTING CASH STATION TO BE REMOVED
- EXISTING WOODEN FENCING TO BE REMOVED AND REPLACED



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

SCALE: 1" = 10'

- 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.

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  
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Atlanta, Georgia 30349-2998

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565 White Pond Dr.  
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Phone 330-836-0228 Fax 330-836-5782

STATE OF MISSOURI  
JERRY R. ROUSE  
NUMBER PE-200705384  
PROFESSIONAL ENGINEER  
6-7-24

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

FSU# 02859

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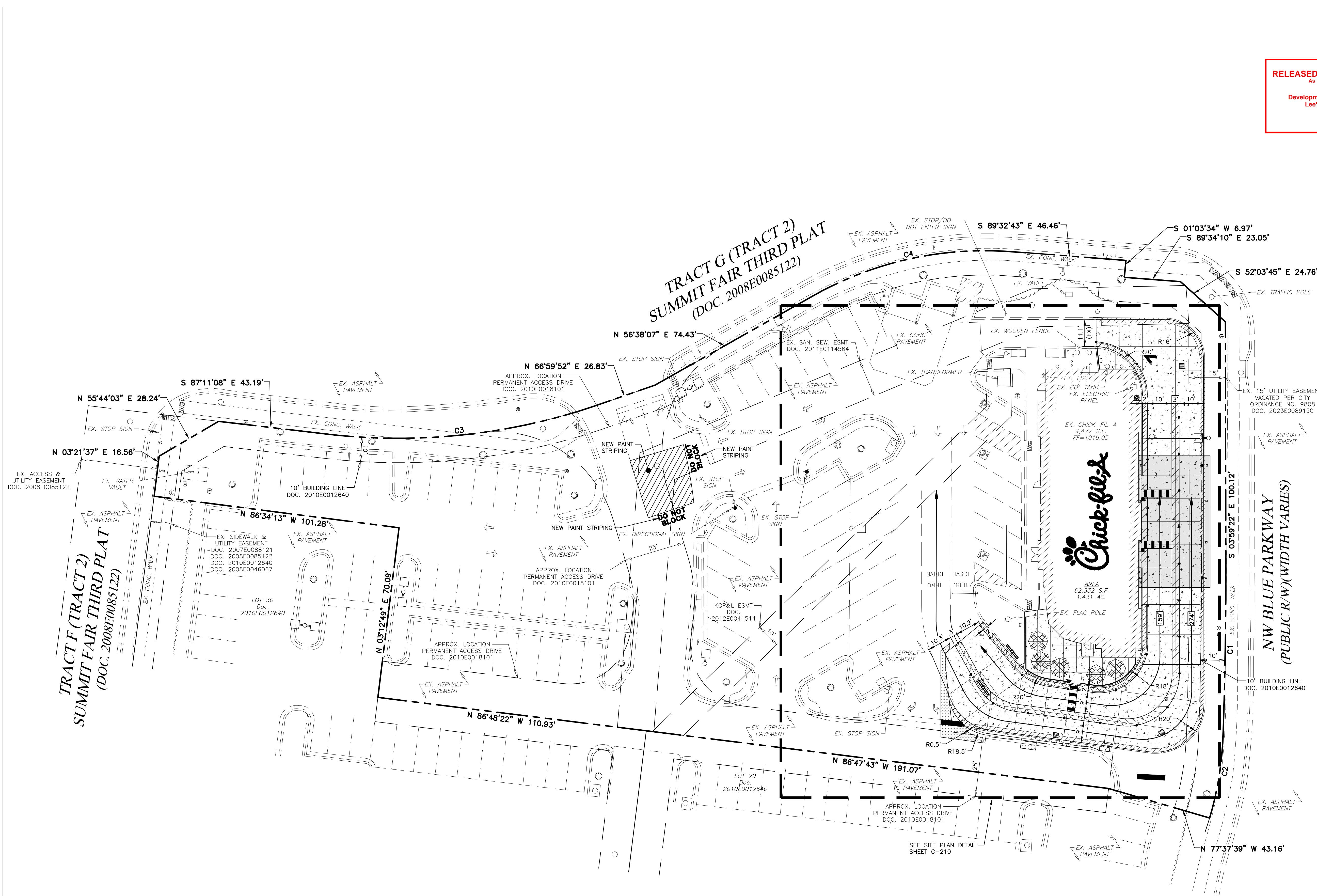
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SHEET  
PHASE 1  
DEMOLITION  
PLAN

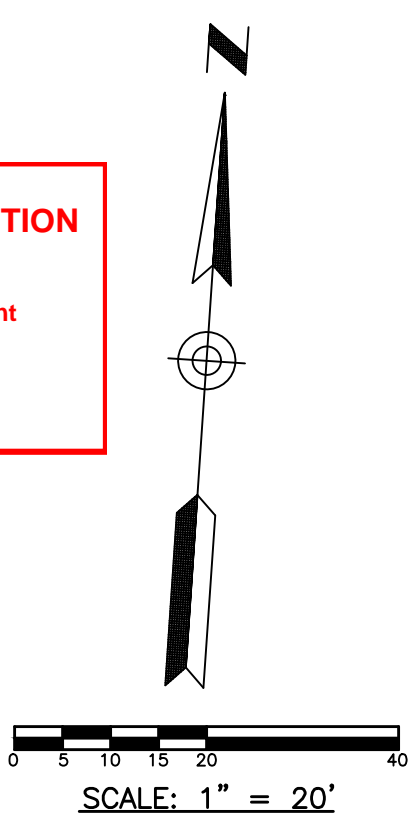
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Lee's Summit, Missouri  
06/13/2024



- LEGEND
- PROF. FIRE HYDRANT
  - EX. FIRE HYDRANT
  - PROF. VALVE
  - EX. VALVE
  - PROF. MANHOLE
  - EX. MANHOLE
  - PROF. INLET
  - EX. BOX INLET
  - EX. LIGHT POLE
  - PROF. LIGHT POLE
  - PROF. ACCESSIBLE RAMP - RAMP IS NOT TO BE SCORED OR GROOVED
  - EX. CURB
  - PROF. CURB & GUTTER
  - PROF. ASPHALT PAVEMENT
  - PROF. 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.

EXISTING AREA TABULATION	
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.)

NEW DEVELOPMENT AREA TABULATION	
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.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.



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Permit  
SHEET  
PHASE 1  
SITE PLAN

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 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	GROSSWALK 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 HMAC 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	KEYED 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

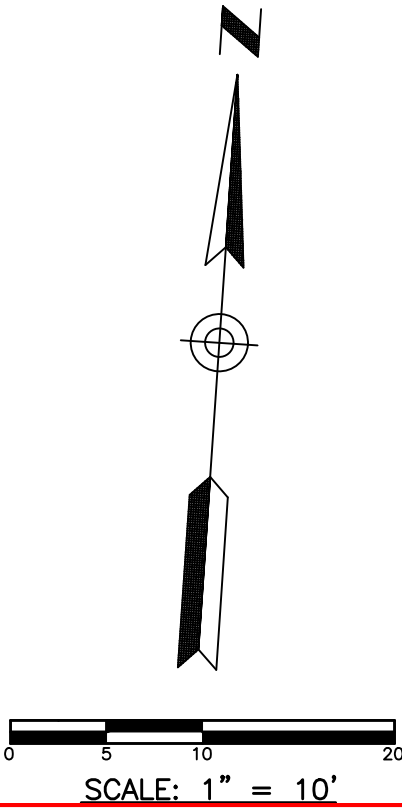
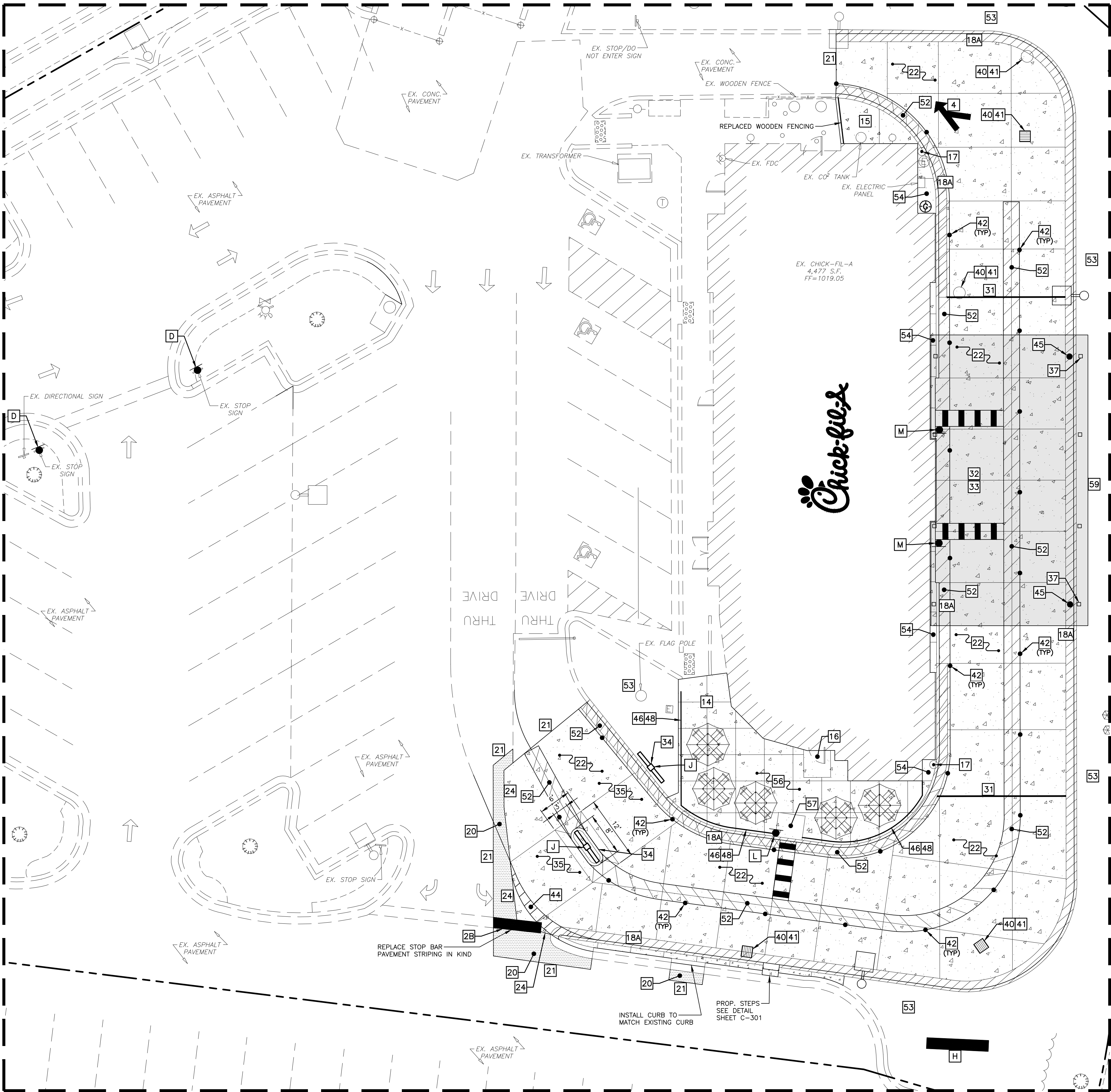
48	ALUMINUM HANDRAIL (REFER TO ARCH PLANS)	
49	DRIVE-THRU CLEARANCE BAR (REFER TO SIGNAGE PACKAGE)	
50	GREASE TRAP	
51	PROPOSED TRANSFORMER	
52	STRIPING PER CHICK-FIL-A DUAL FLEX LANE REQUIREMENTS	
53	LANDSCAPED AREA	
54	4" THICK CONCRETE STRIP BETWEEN BUILDING & BACK OF CURB	
55	4" THICK CONCRETE STRIP 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	

59	FREE-STANDING OUTSIDE MEAL DELIVERY CANOPY	
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





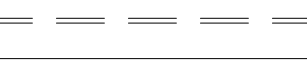
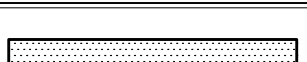

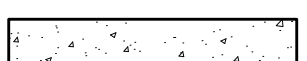
SIGN LEGEND

\*\* 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	GFA 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	
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	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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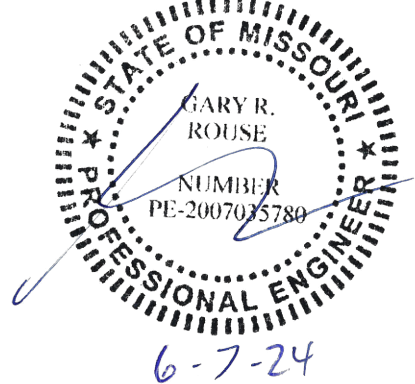


Chick-fil-A

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GBC DESIGN, INC.

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SHEET

PHASE 1  
SITE PLAN  
DETAIL

SHEET NUMBER

C-210



GRADING & UTILITY NOTES

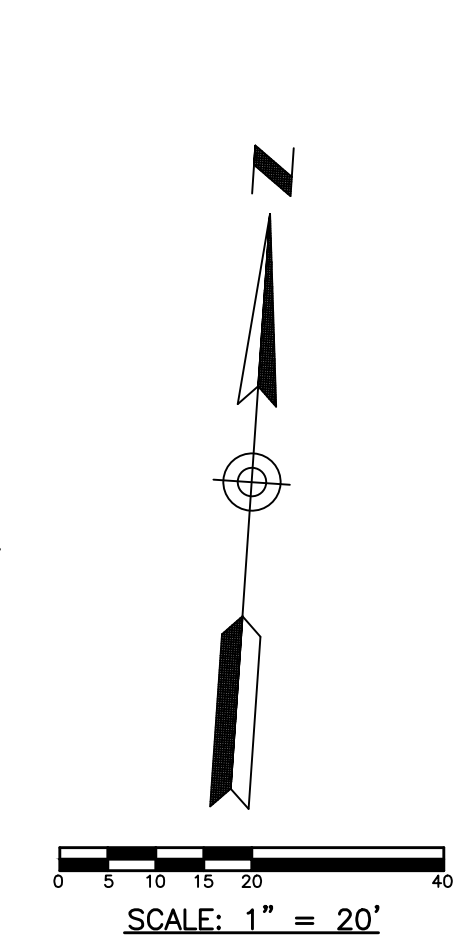
- LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR 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 GRADINGS. 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

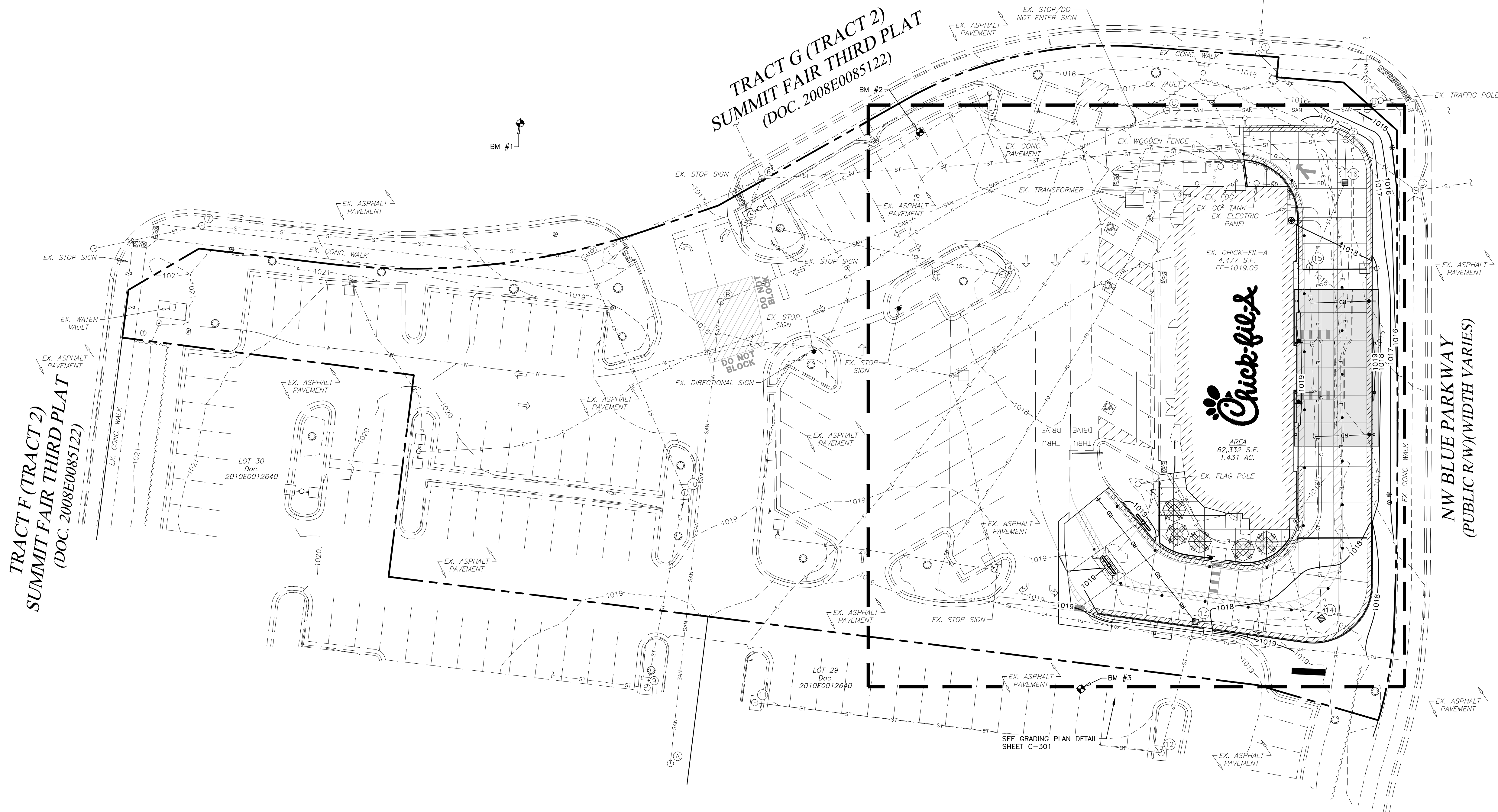
- PROP. FDC
- EX. FIRE HYDRANT
- PROP. VALVE
- EX. VALVE
- PROP. MANHOLE
- EX. MANHOLE
- PROP. INLET
- EX. INLET
- EX. GRADE
- PROP. TOP OF CURB ELEV.
- PROP. BOTTOM OF CURB ELEV.
- PROP. FINISHED ELEVATION
- PROP. TOP OF WALL ELEV.
- PROP. BOTTOM OF WALL ELEV.
- POSITIVE DRAINAGE
- EX. STORM SEWER
- 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 1018.59  
INV. 1008.60, 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.  
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. 1011.45, 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



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.

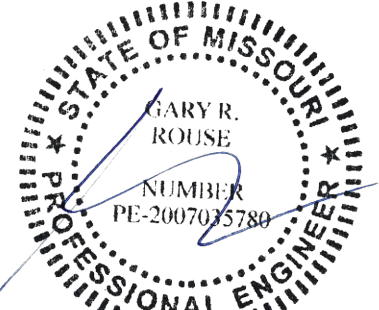
CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS 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.



Chick-fil-A

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Fax 330-836-0752



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		DESCRIPTION
NO.	DATE	
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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DATE	8/23/23
DRAWN BY	BAW

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SHEET

PHASE 1  
GRADING PLAN

SHEET NUMBER

C-300







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.

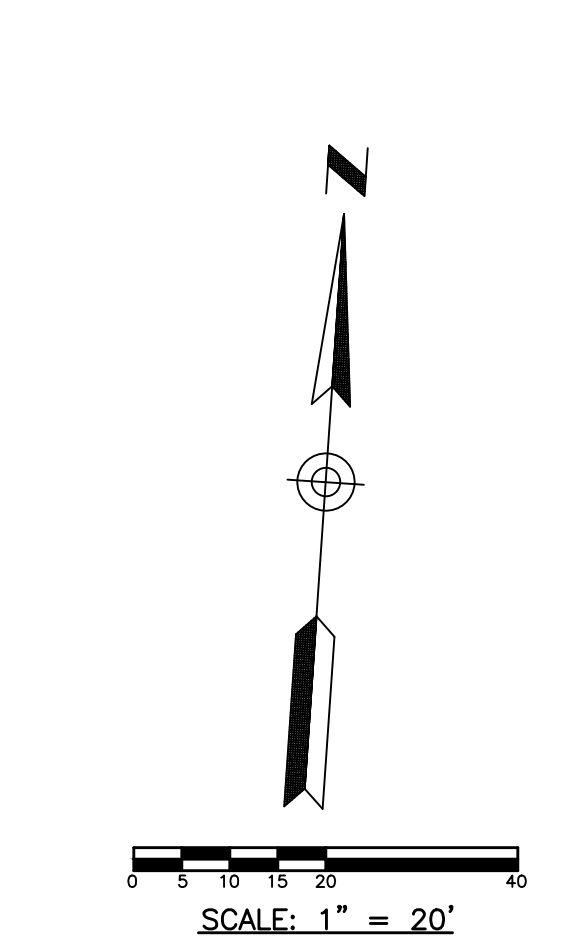
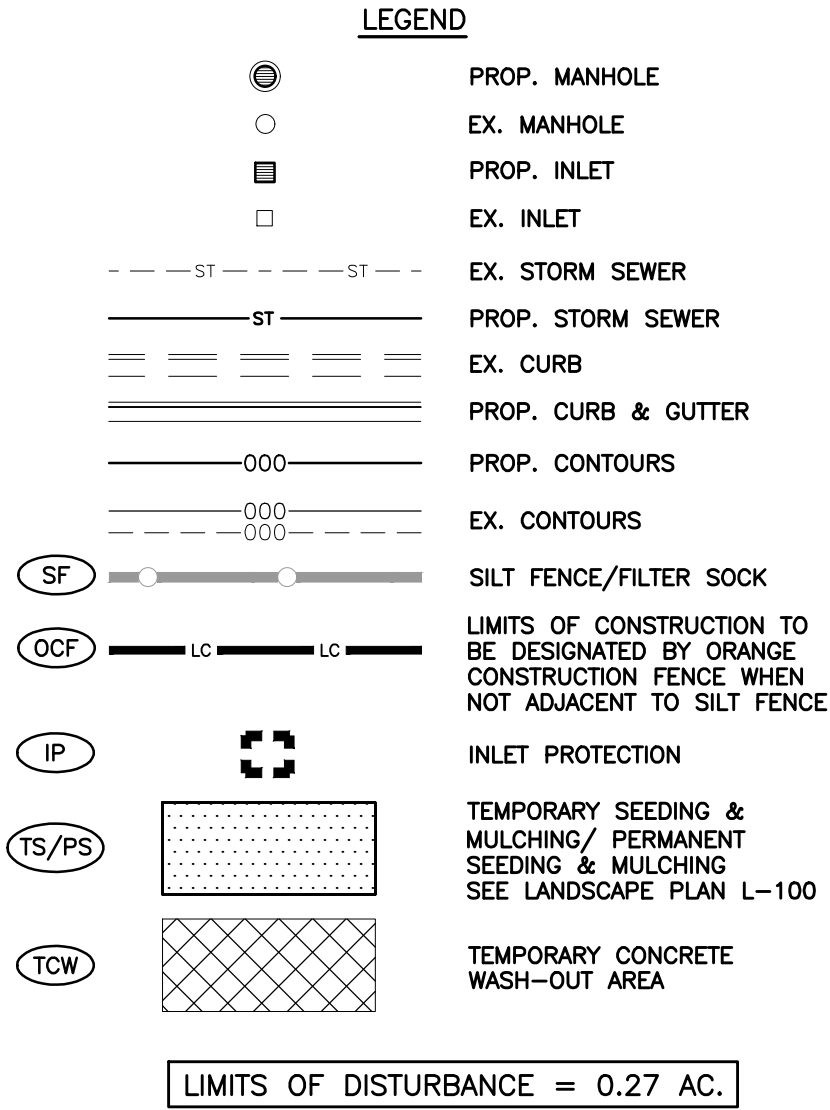
CONTRACTOR TO MAINTAIN A RAIN GAUGE ON SITE OR NEARBY REFERENCE FOR RECORDS. INSPECTORS OF THE SITE MUST HAVE COMPLETED THE WFC FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) COURSE.

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.

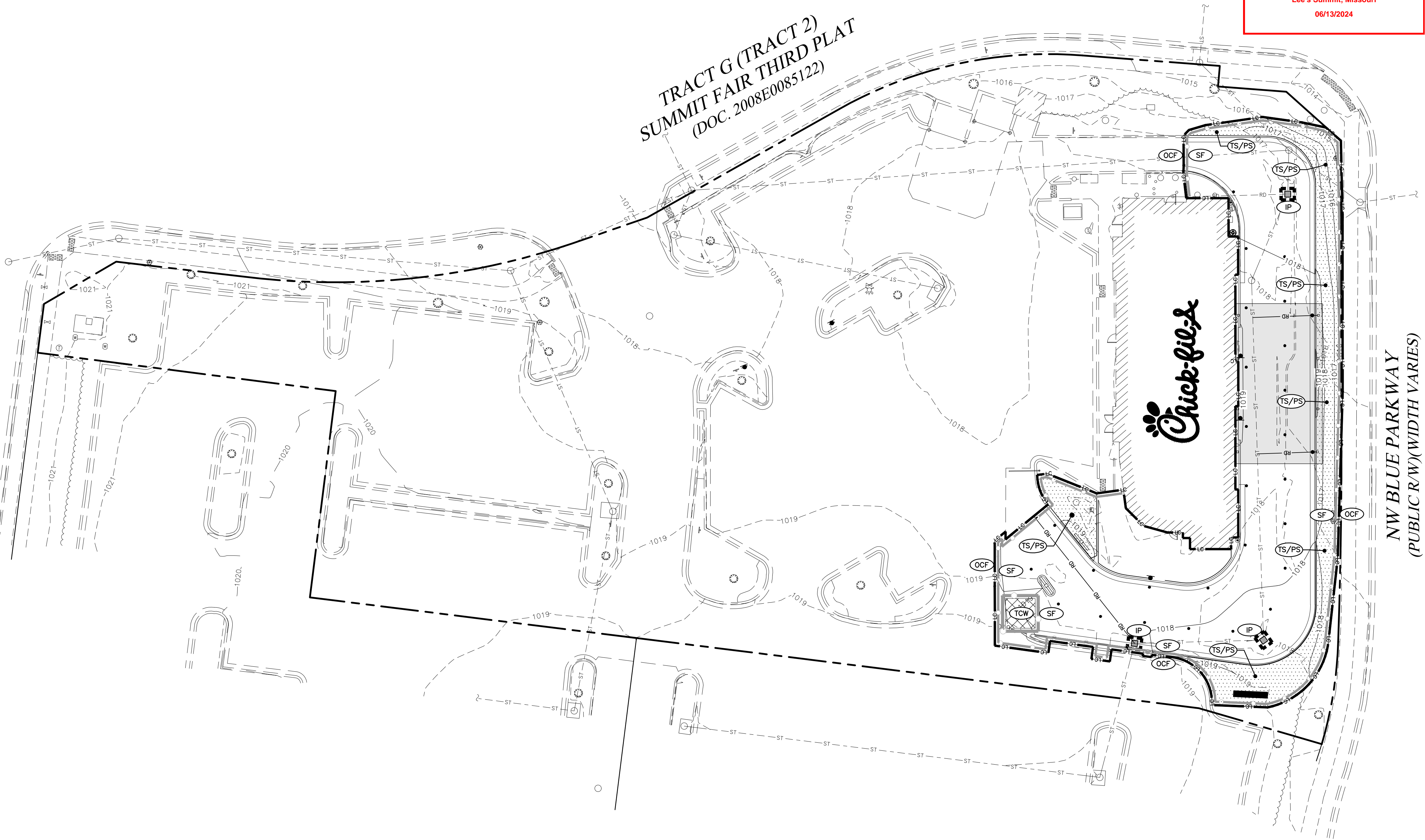
1. BEFORE CONSTRUCTION, EVALUATE, MARK, AND PROTECT IMPORTANT TREES
2. CLEAR AREAS FOR CONSTRUCTION ENTRANCE AND SILT FENCE.
3. INSTALL CONSTRUCTION ENTRANCE.
4. POST SWPPP PLANS ONSITE.
5. INSTALL EROSION CONTROL FENCES AND OTHER PERIMETER CONTROLS AROUND CONSTRUCTION AREA BEFORE CONSTRUCTION ACTIVITIES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



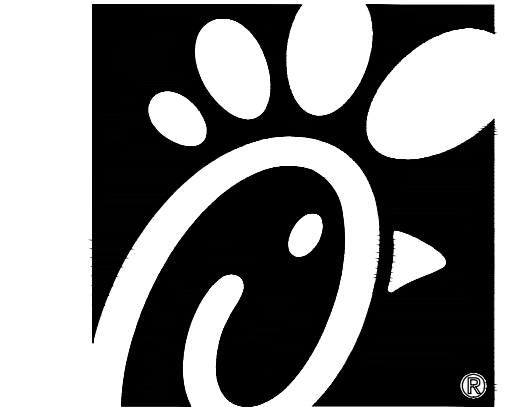
RELEASED FOR CONSTRUCTION  
As Noted on Plan Review  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024

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

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



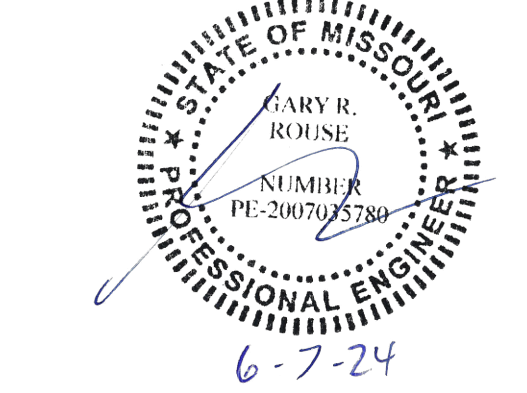
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CHICK-FIL-A  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

FSU# 02859

REVISION SCHEDULE		DESCRIPTION
NO.	DATE	
1	3/14/2024	ISSUED FOR BID
2	4/15/2024	FOR CONSTRUCTION
3	6/7/2024	PHASING
4	6/10/2024	PHASING SCOPE

GBC PROJECT #	43215R
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DRAWN BY	BAW

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SHEET  
STORMWATER  
POLLUTION  
PREVENTION  
PLAN (SWPPP)

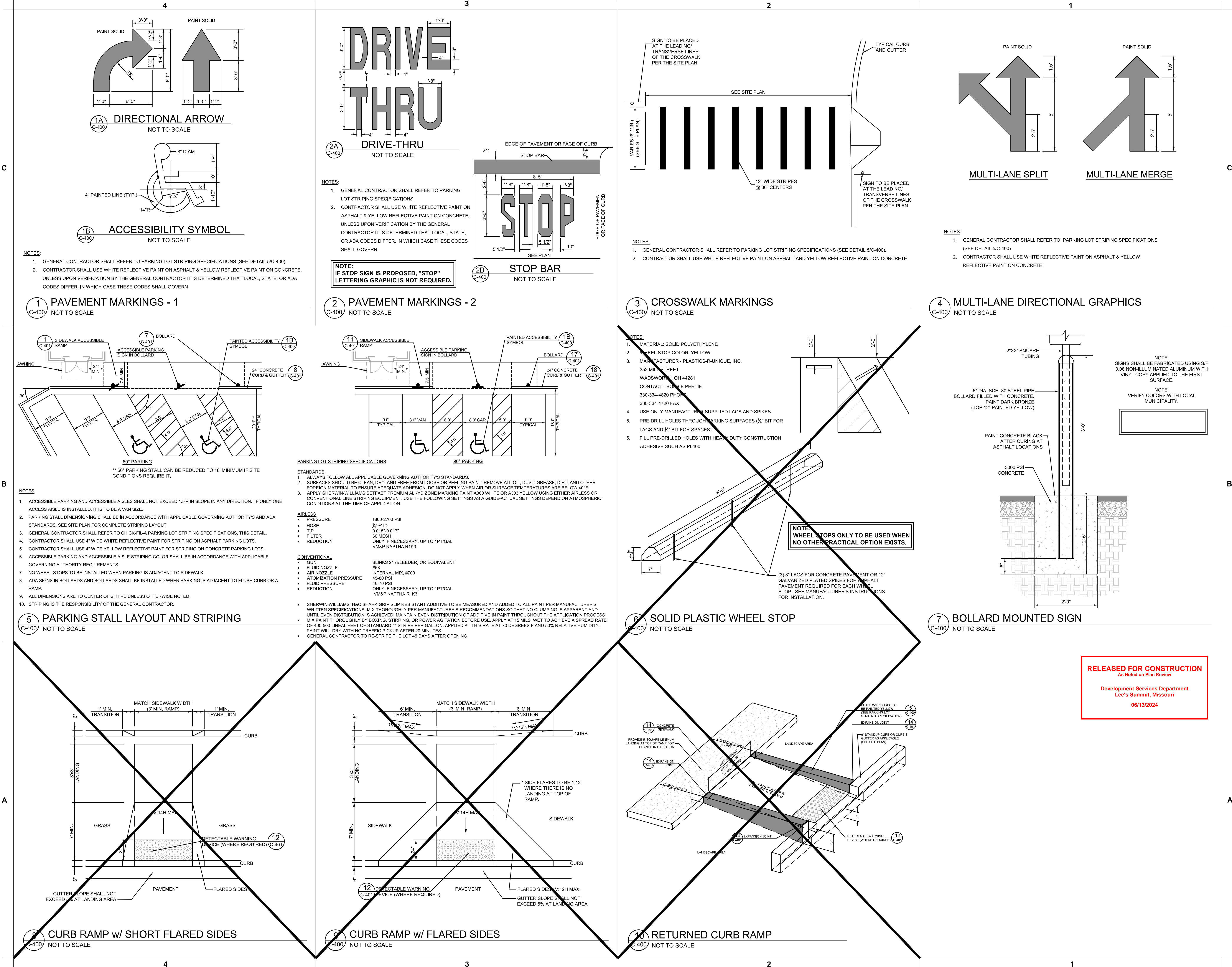
SHEET NUMBER

C-310



# C-320





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**FSU# 02859**

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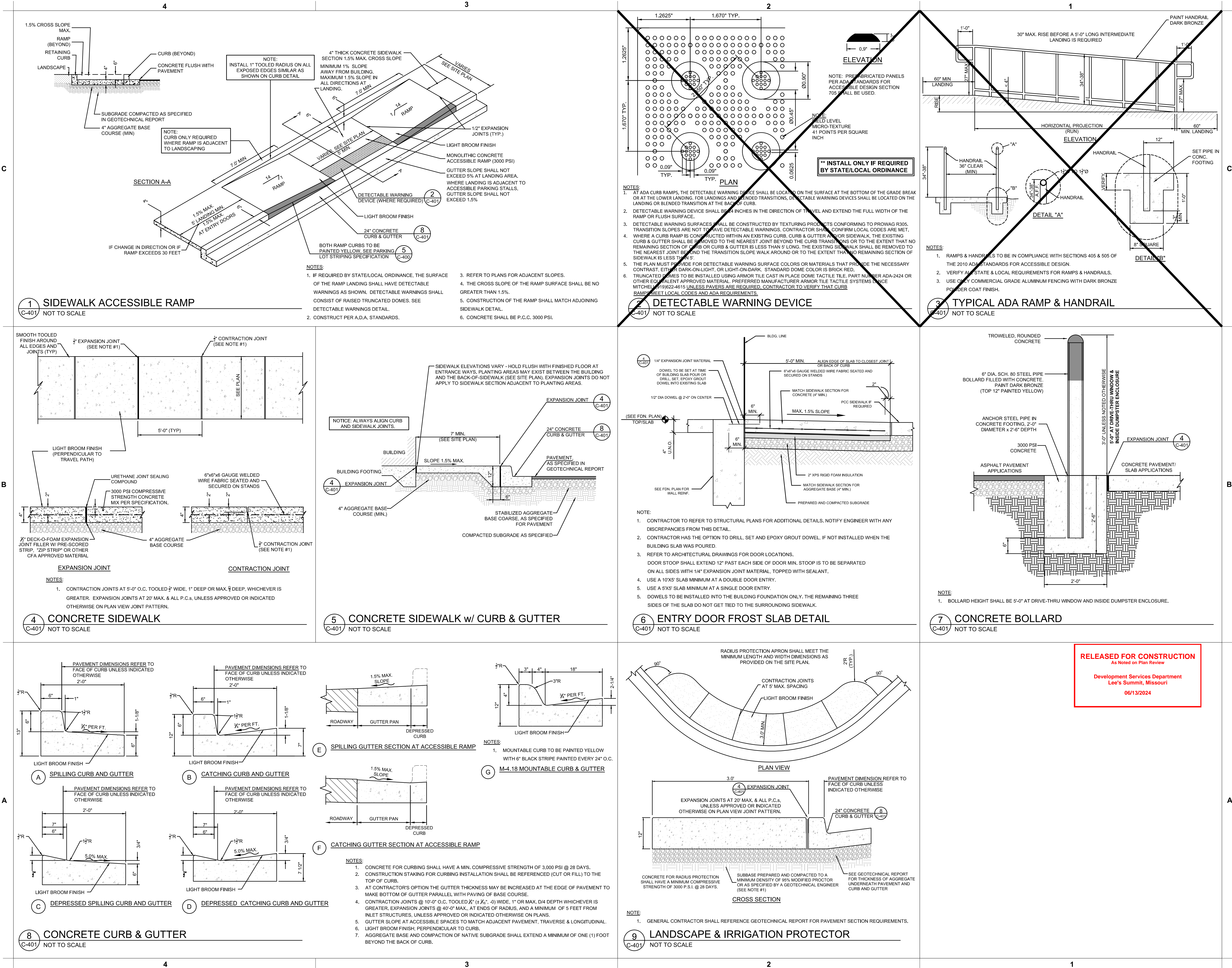
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SHEET  
**CHICK-FIL-A SITE DETAILS**

SHEET NUMBER  
**C-400**





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Fax 330-536-5782

STATE OF MISSOURI  
JERRY R. ROUSE  
NUMBER PE-200707380  
6-7-24  
PROFESSIONAL ENGINEER

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

**FSU# 02859**

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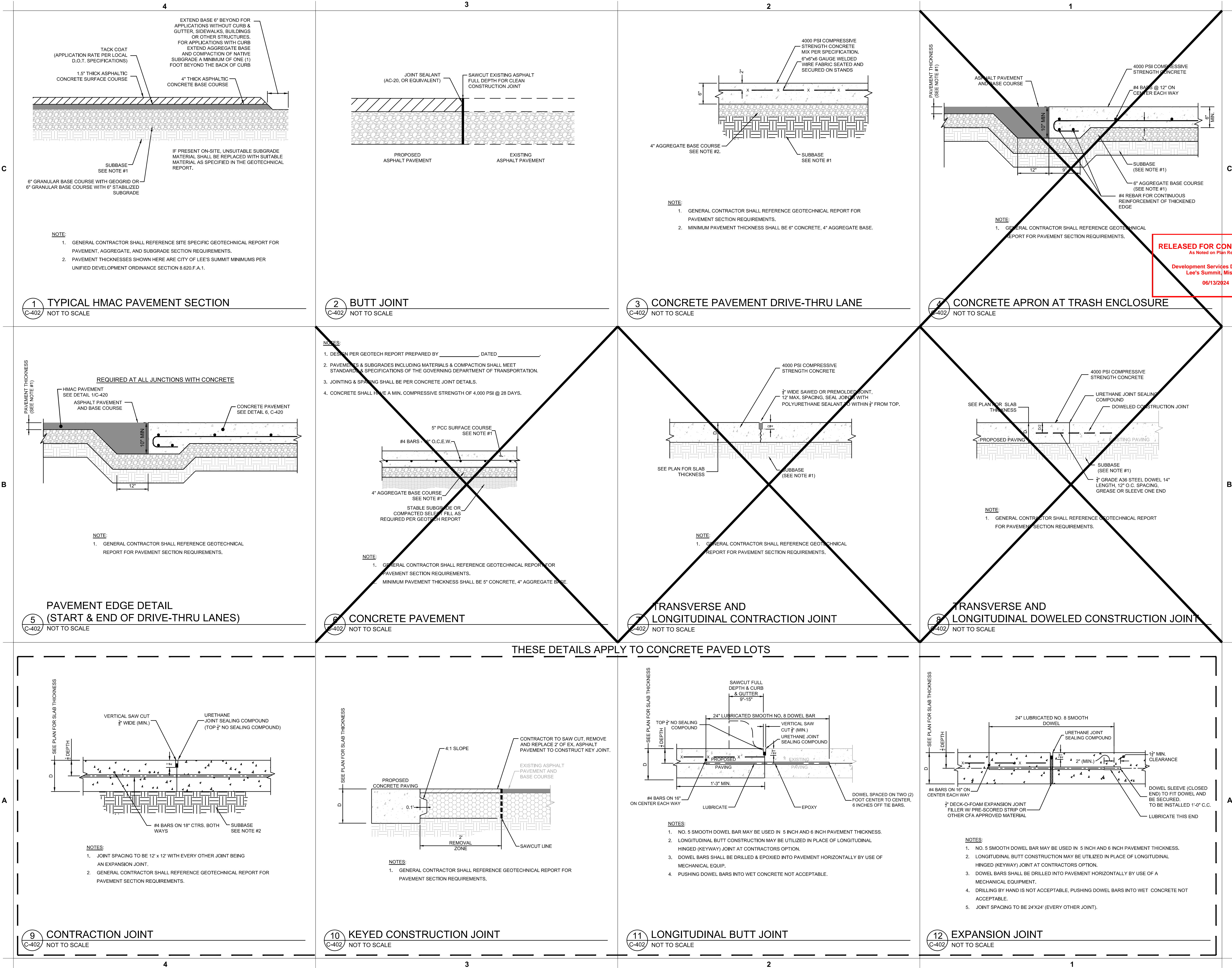
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SHEET  
**CHICK-FIL-A SITE DETAILS**

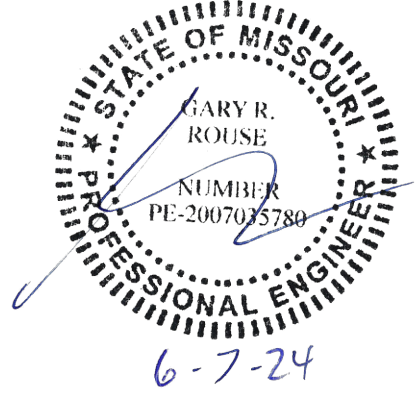
Permit  
SHEET NUMBER  
**C-401**





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LEE'S SUMMIT, MO 64086

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1	3/14/2024	Permit	ISSUED FOR BID

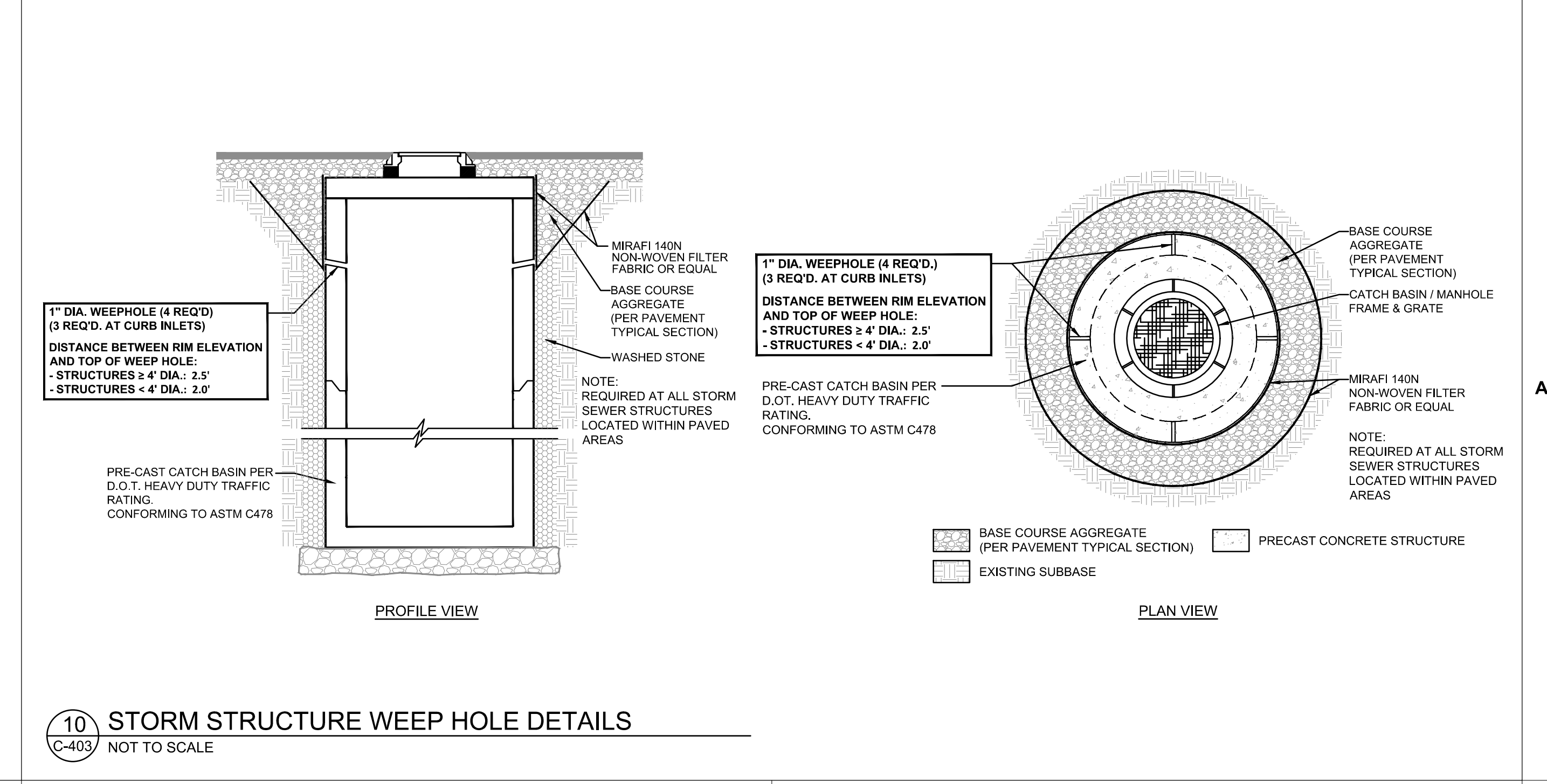
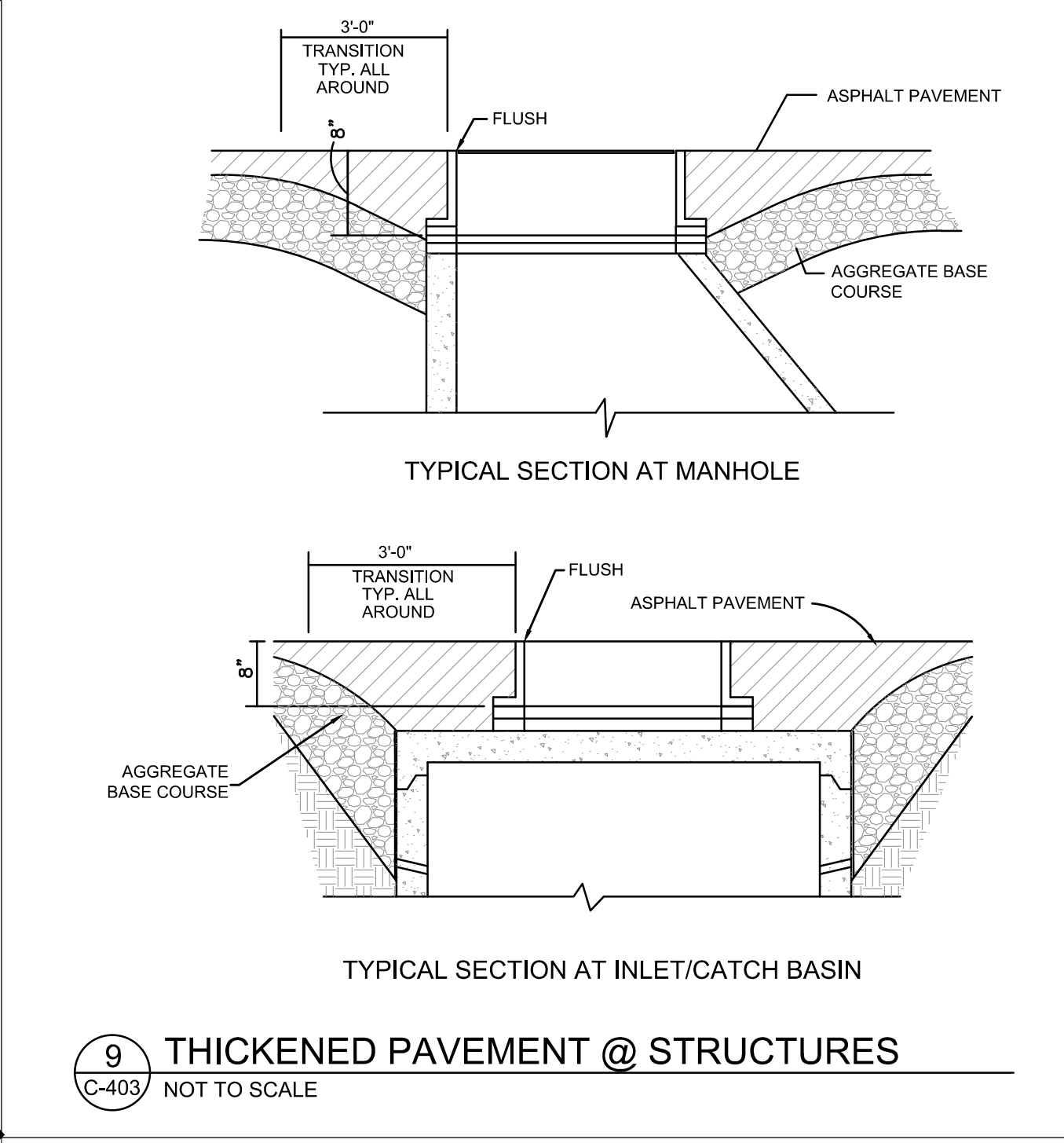
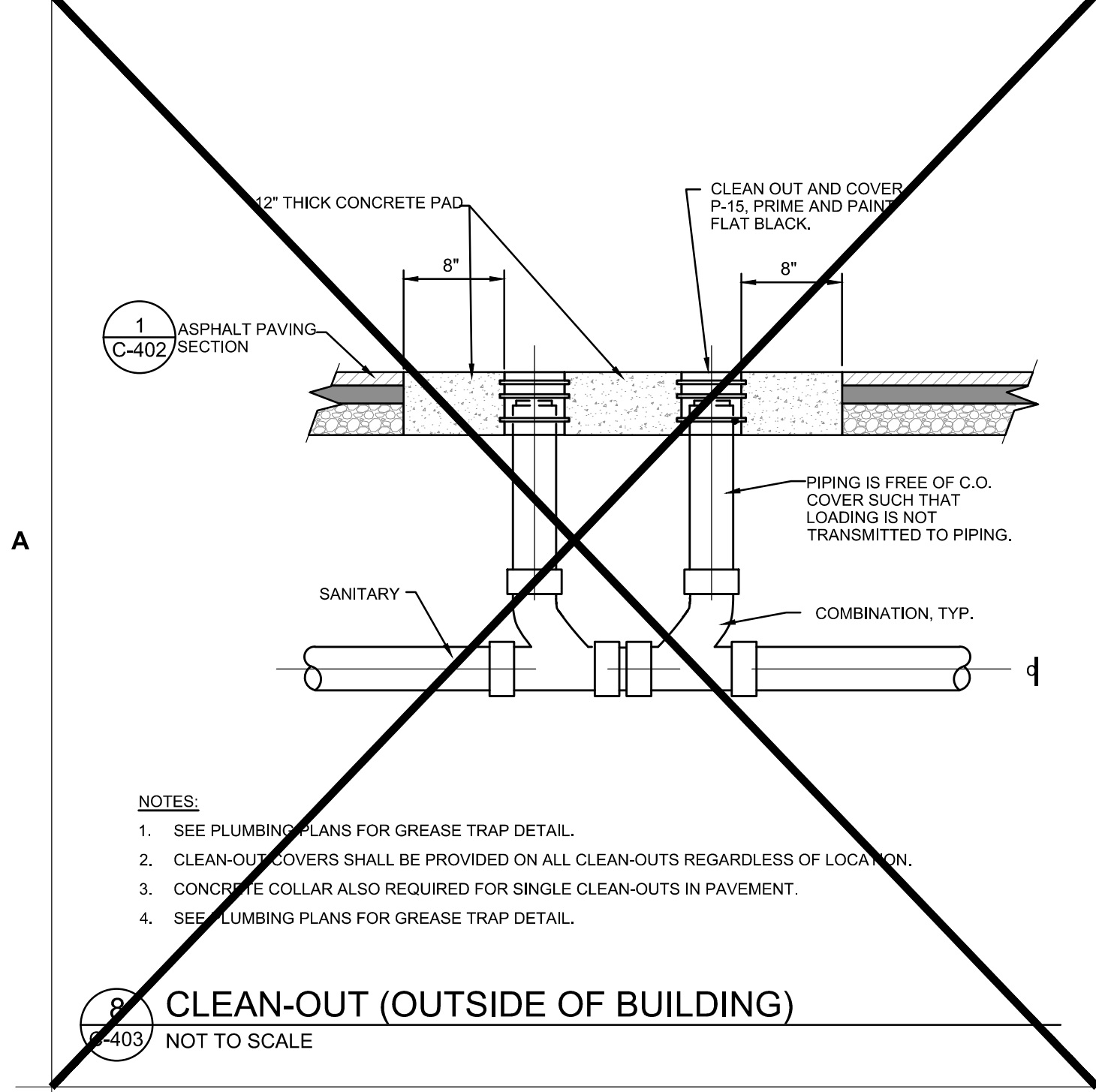
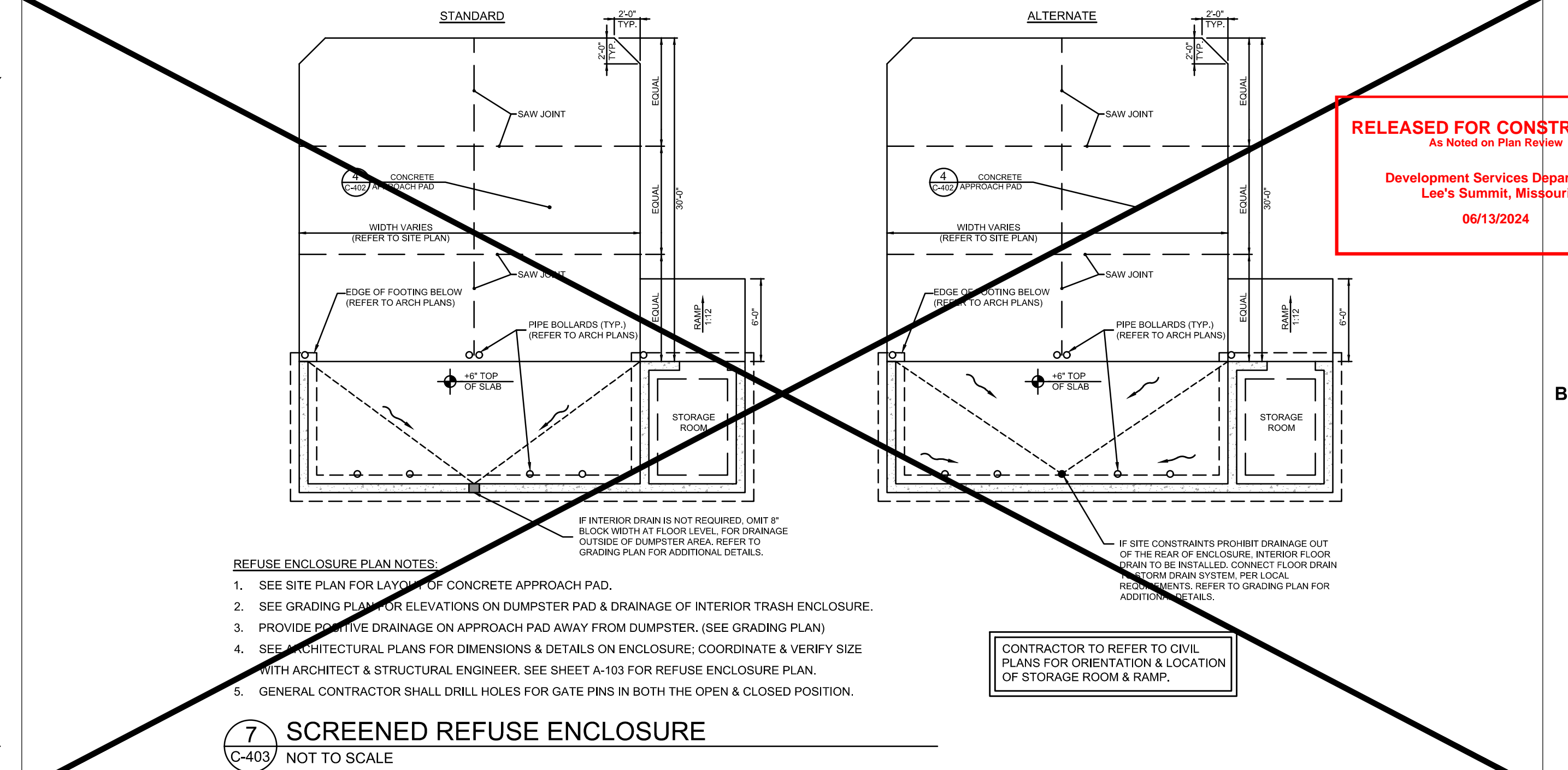
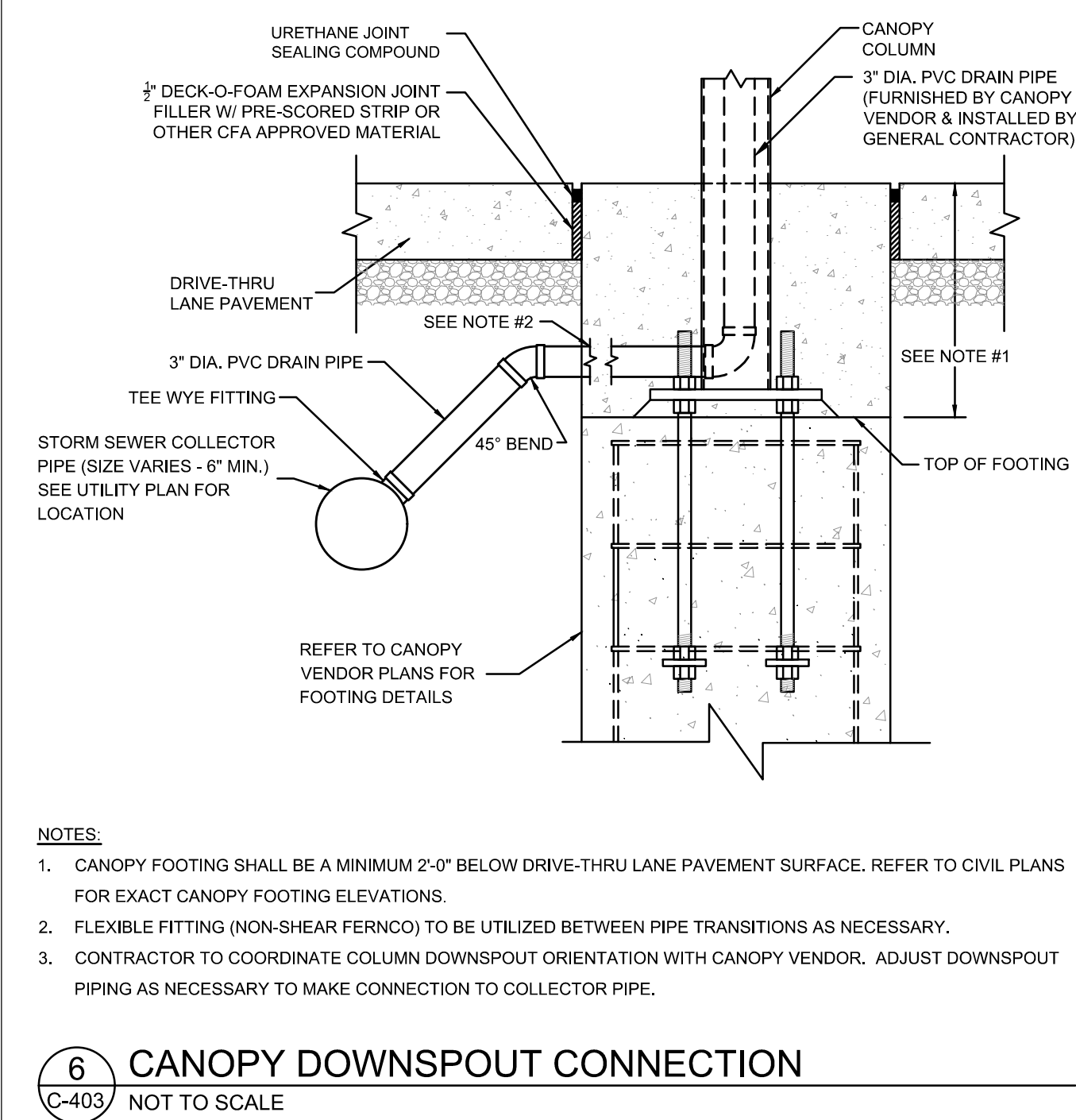
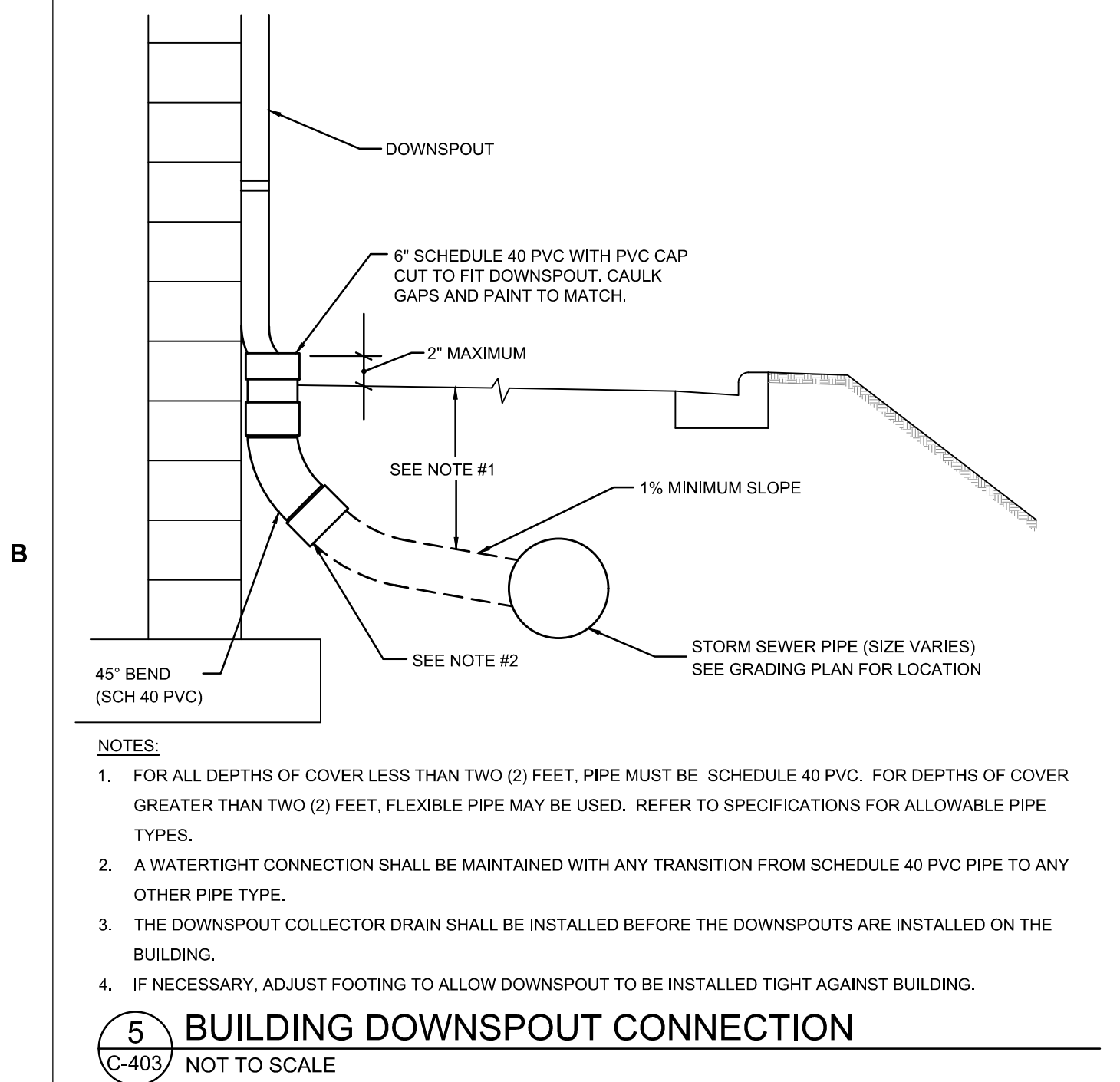
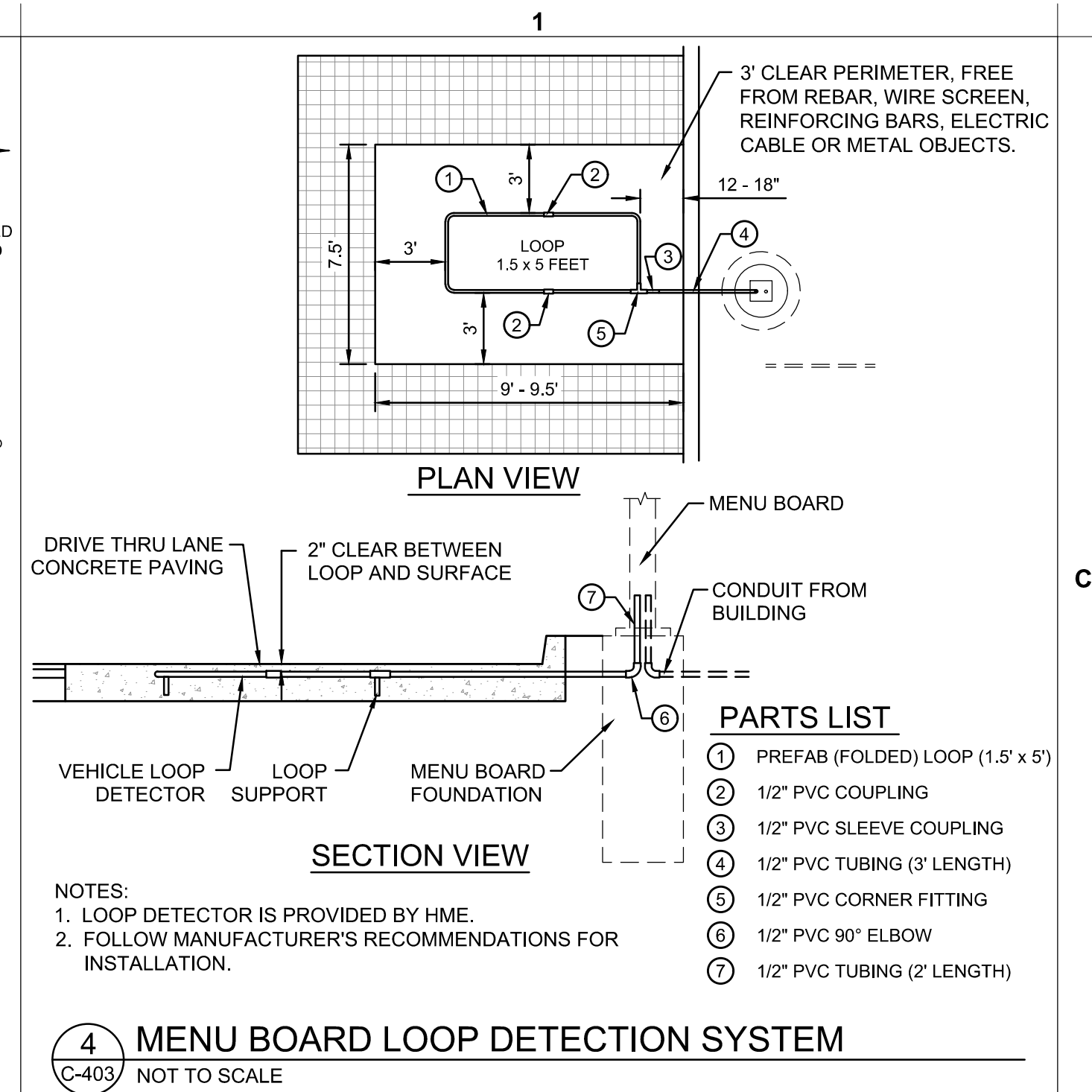
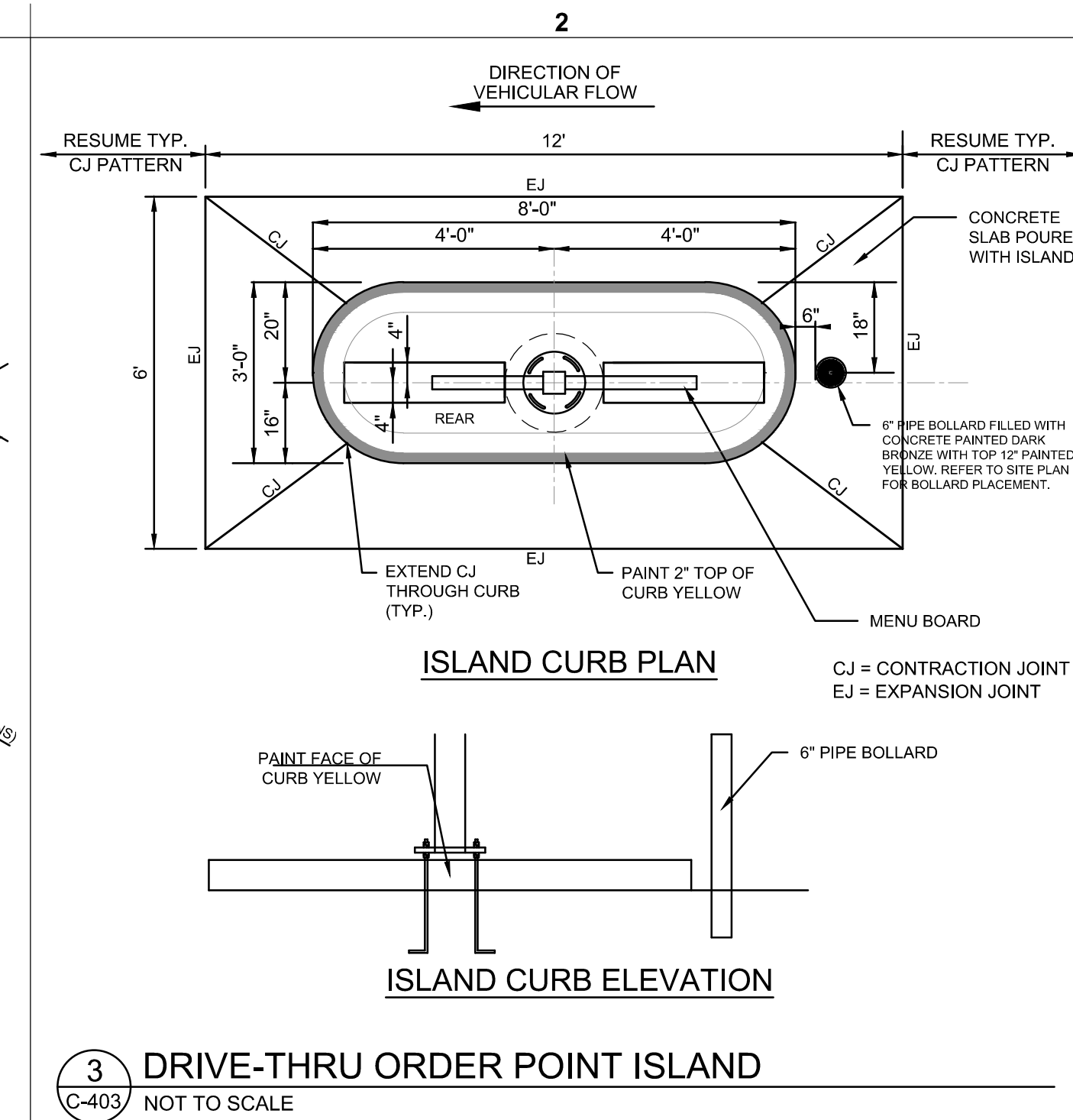
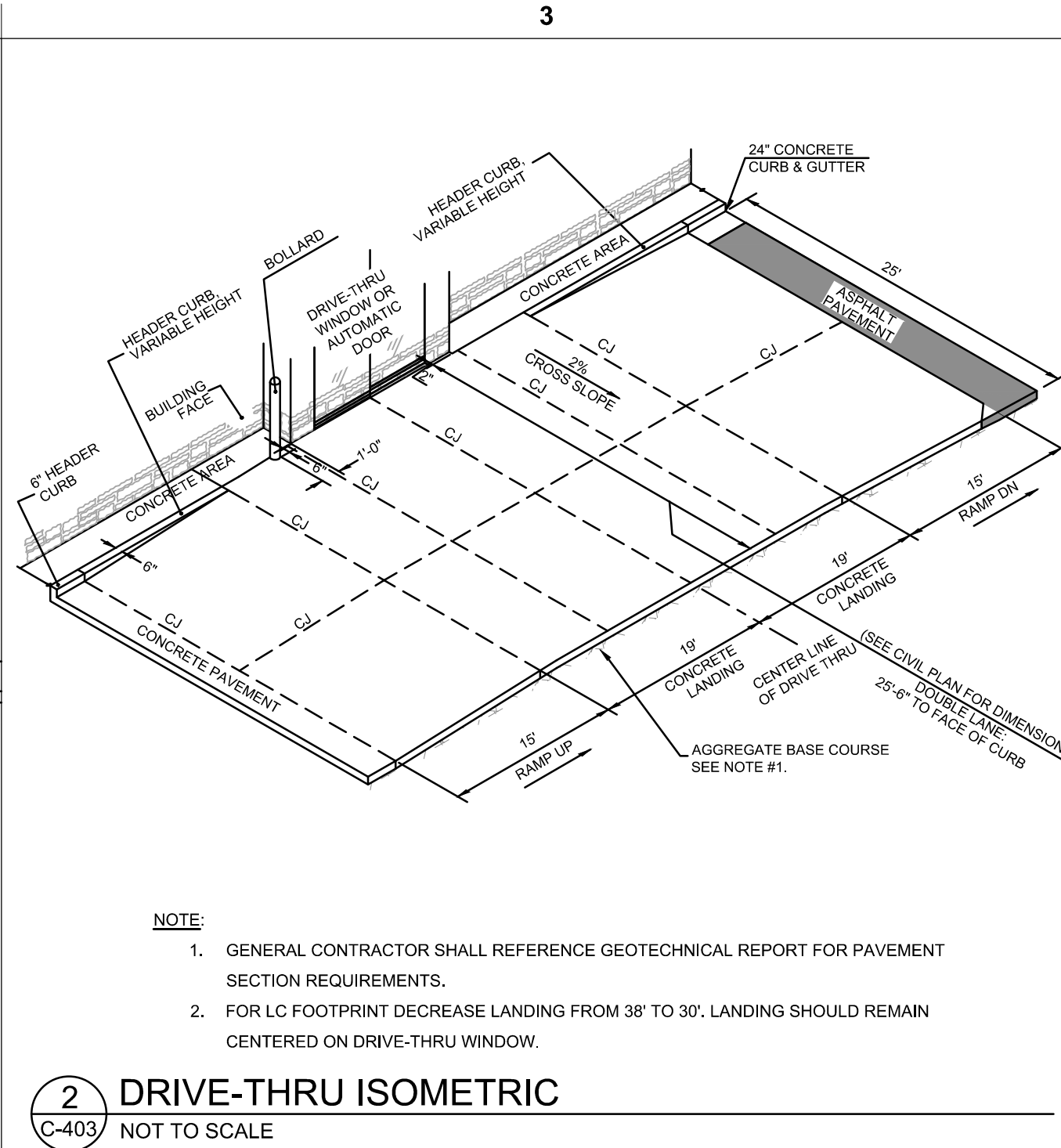
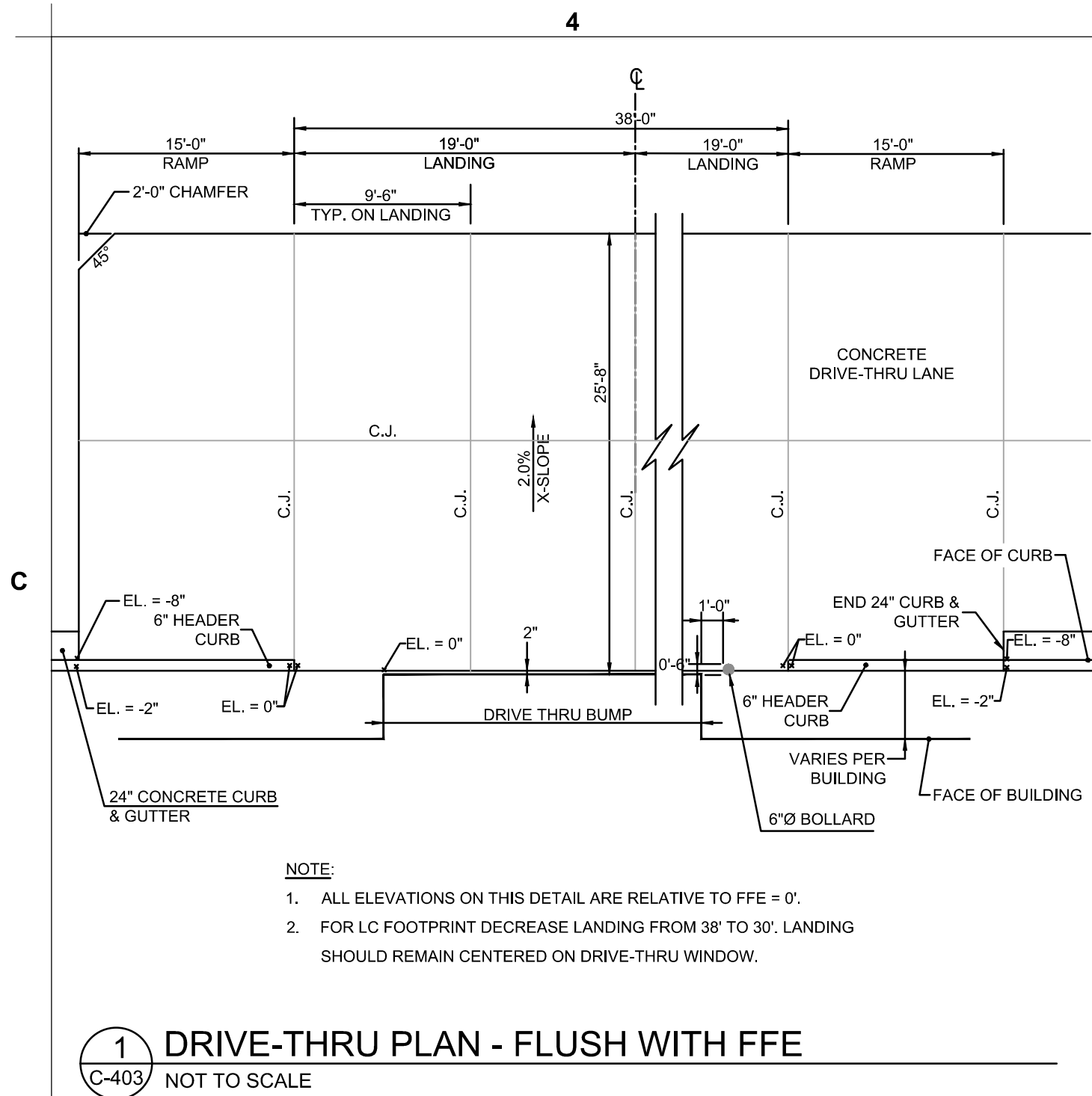
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SHEET  
**CHICK-FIL-A SITE DETAILS**

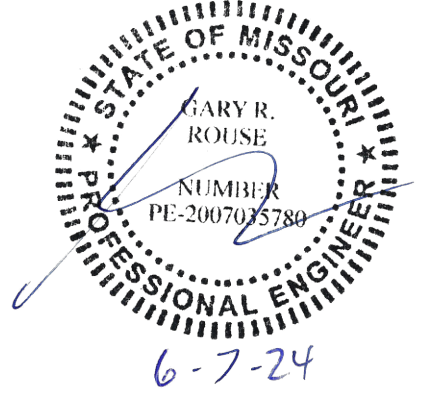
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**C-402**





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

GBC DESIGN, INC.  
565 White Pond Dr.  
Akron, OH 44320-1123  
Phone 330-856-0228  
Fax 330-856-5782



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

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SHEET CHICK-FIL-A SITE DETAILS

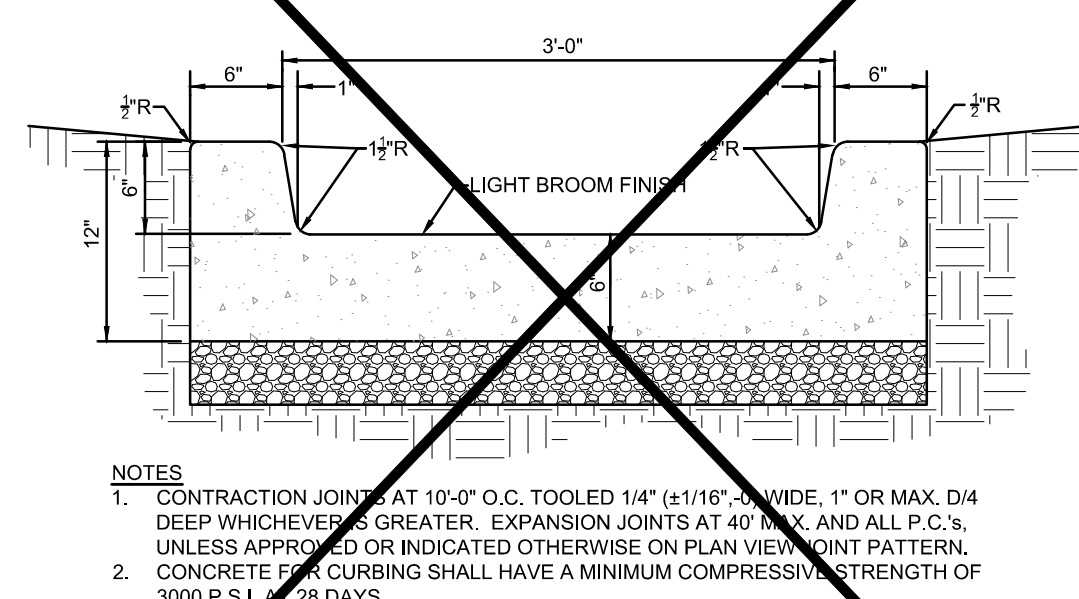
SHEET NUMBER

C-403





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

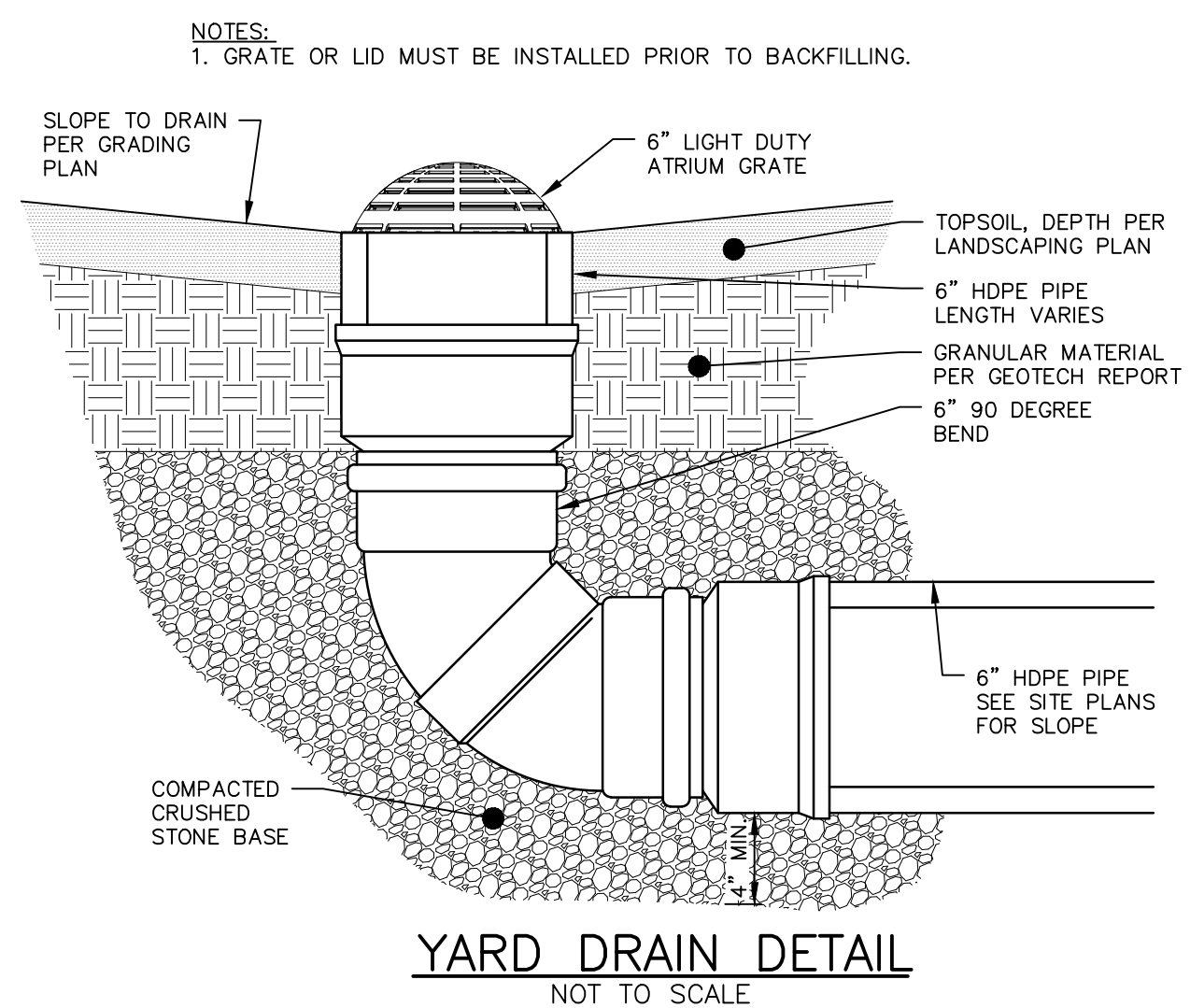


**NOTES**

1. CONTRACTION JOINTS AT 10'-0" O.C. TOOLED 1/4" (+/-1/16" TYPICAL, 1" OR MAX. DEEP WHICHEVER IS GREATER. EXPANSION JOINTS AT 40' MAX. AND ALL P.C.'S. UNLESS APPROVED OR INDICATED OTHERWISE ON PLAN VIEW JOINT PATTERN.
2. CONCRETE FOR CURBING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. 28 DAYS.

**CONCRETE FLUME**

NOT TO SCALE



# CHICK-FIL-A SITE DETAILS

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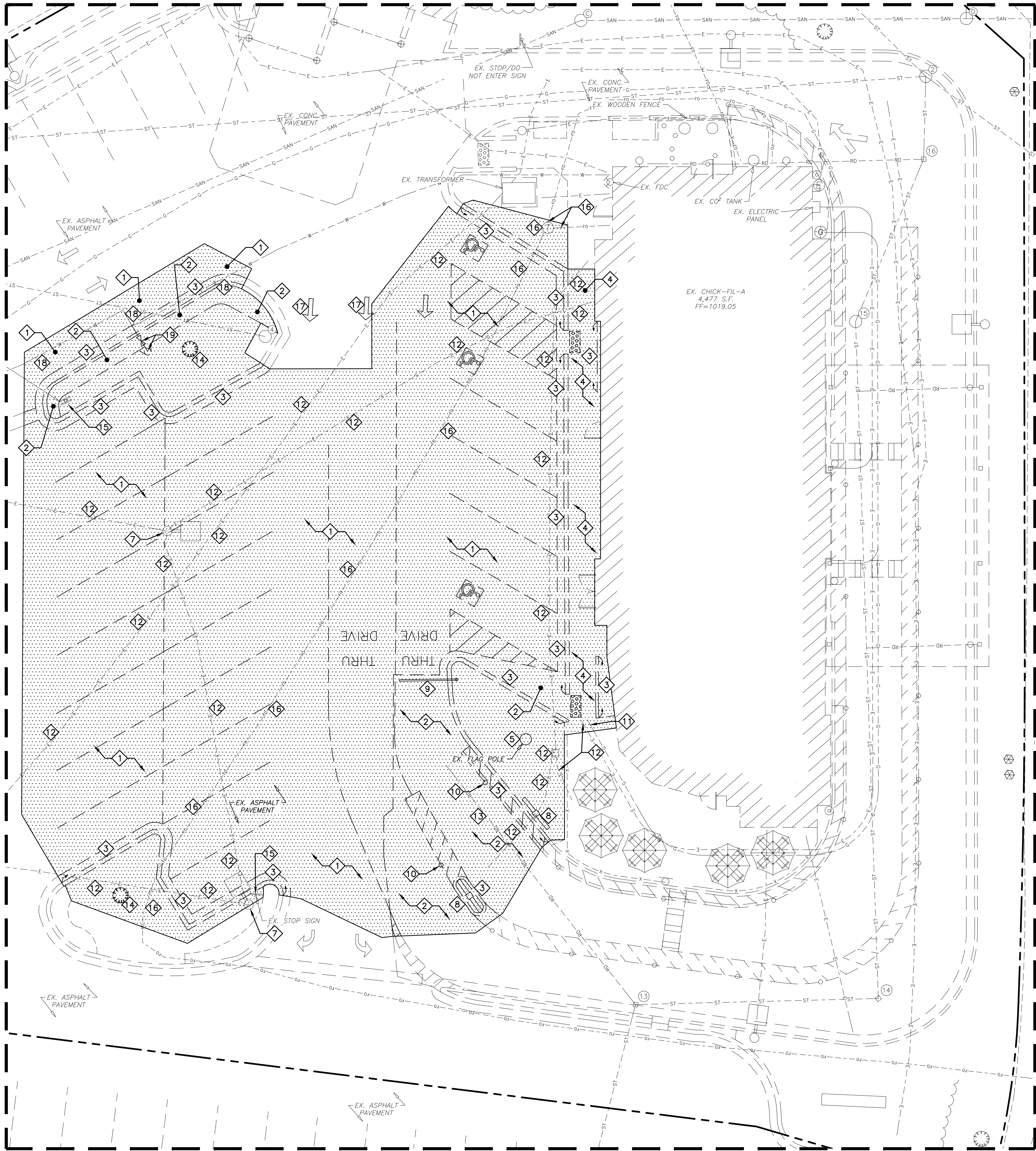
SHEET NUMBER

C-404



DEMOLITION NOTES

- EXISTING ASPHALT PAVEMENT TO BE SAWCUT FULL DEPTH AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- EXISTING CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- EXISTING CONCRETE CURB TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- EXISTING CONCRETE SIDEWALK TO BE SAWCUT AT NEAREST JOINT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- EXISTING FLAG POLE TO BE REMOVED
- EXISTING RAILING TO BE REMOVED
- EXISTING LIGHT POLE TO REMAIN
- EXISTING ORDER STATION & ASSOCIATED UTILITIES TO BE REMOVED
- EXISTING CLEARANCE BAR TO BE REMOVED
- EXISTING SAFETY POST TO BE REMOVED
- EXISTING GAS SERVICE TO REMAIN
- EXISTING ELECTRIC TO REMAIN
- EXISTING ROOF DRAIN TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING SIGN TO REMAIN
- EXISTING COMMUNICATIONS TO REMAIN
- EXISTING PAINT STRIPING TO BE REMOVED AS NEEDED FOR NEW LAYOUT
- EXISTING WATER LINE TO REMAIN
- EXISTING HYDRANT ASSEMBLY TO BE RELOCATED



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

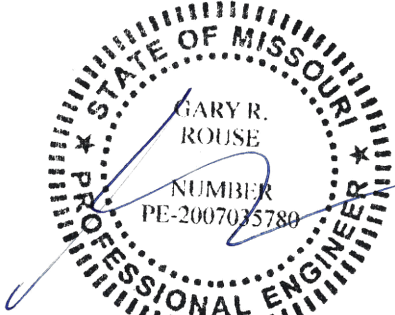
CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS 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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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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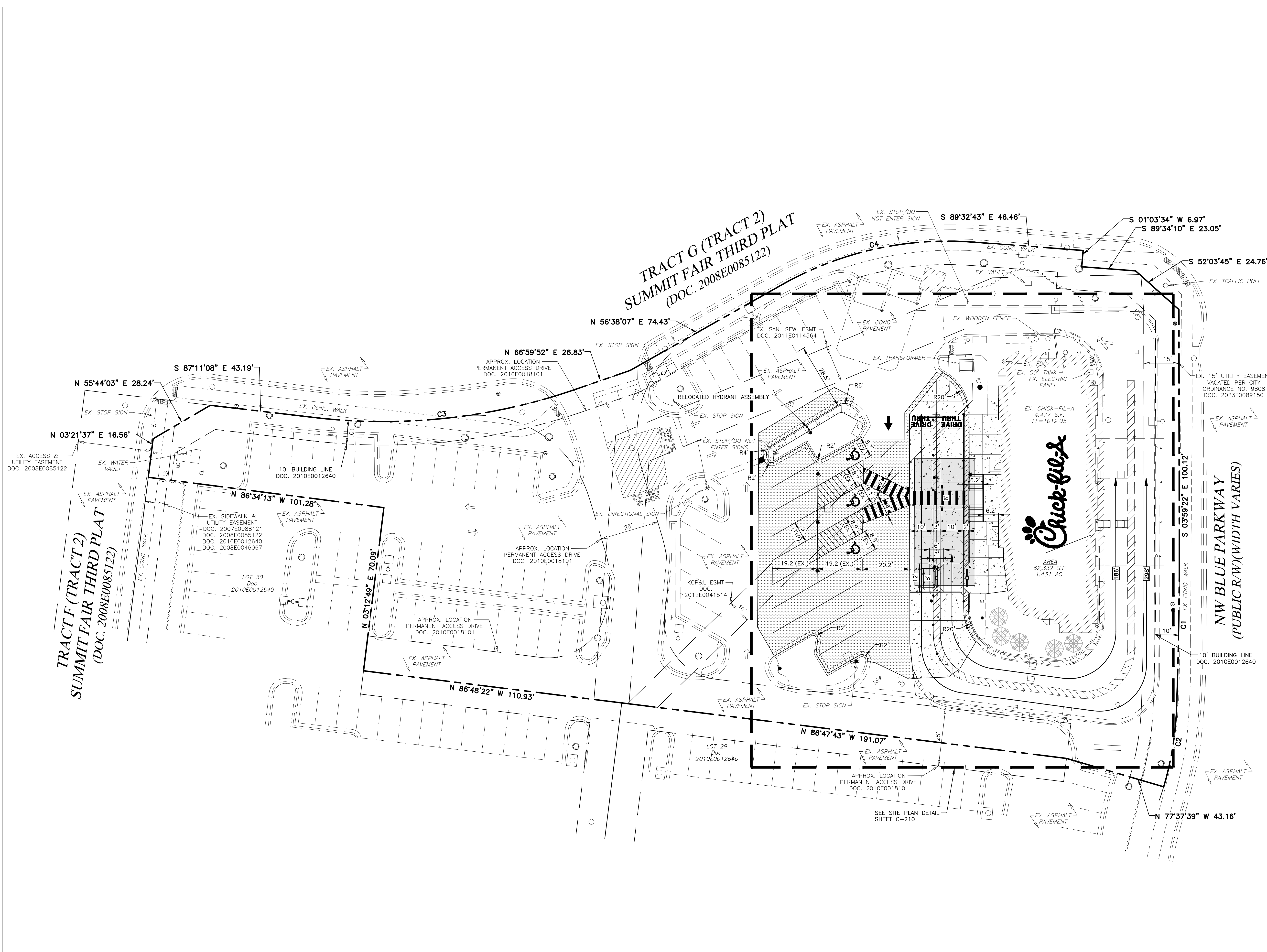
SHEET

PHASE 2  
DEMOLITION  
PLAN

SHEET NUMBER

C-600





- 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**  
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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 KING)	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 = 56  
ACCESSIBLE SPACES = 3  
TOTAL = 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.

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Atlanta, Georgia 30349-2998

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

STATE OF MISSOURI  
AARV R ROUSE  
NUMBER PE-200707578  
PROFESSIONAL ENGINEER  
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

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SHEET  
PHASE 2  
SITE PLAN

SHEET NUMBER  
C-610



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 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	

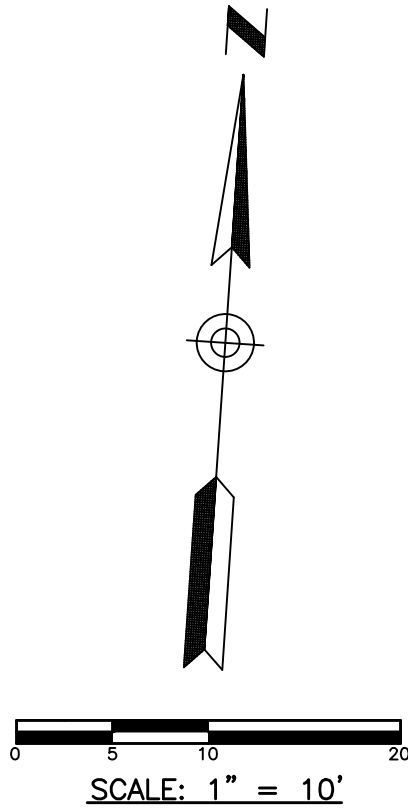
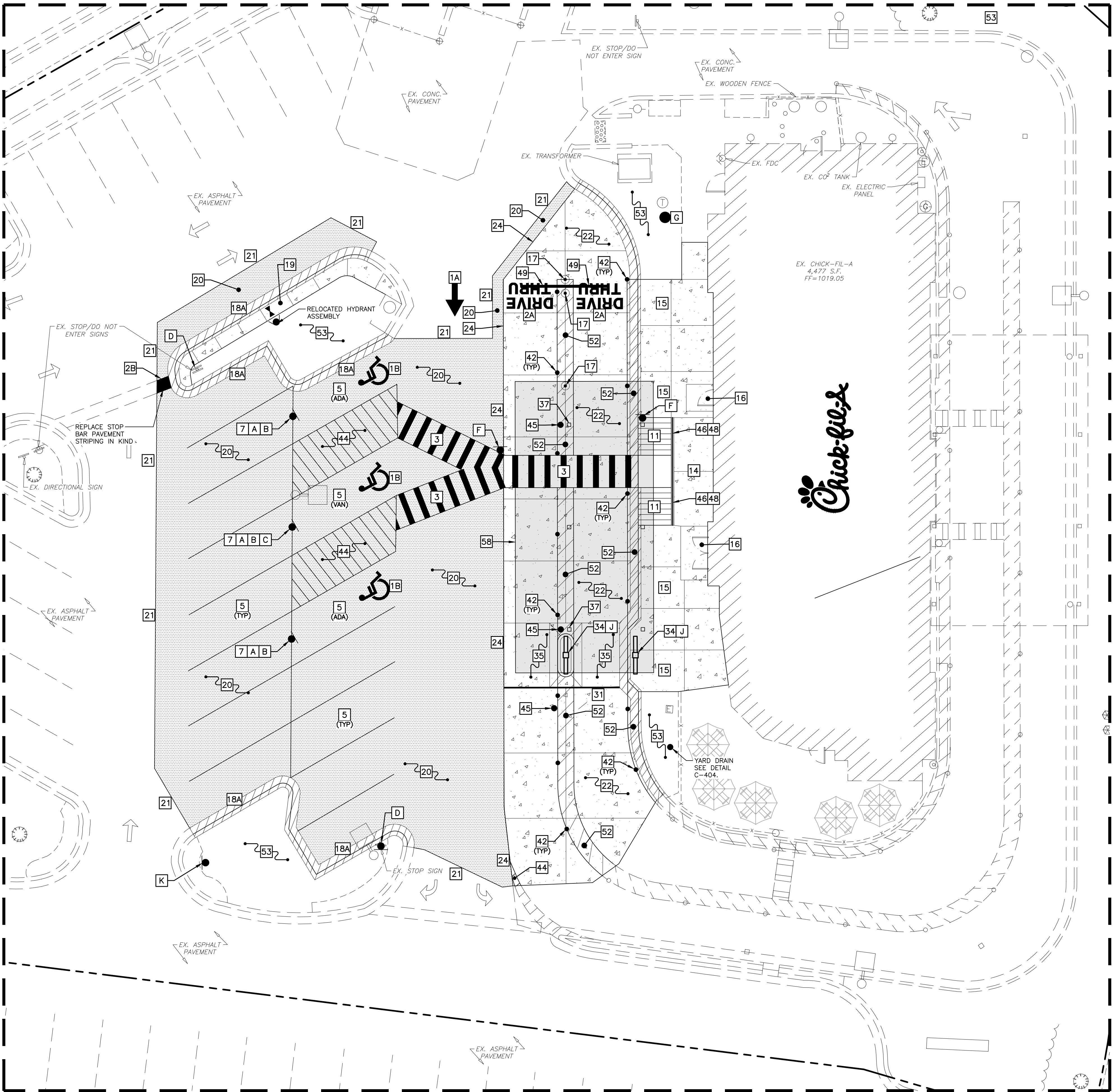
19	LANDSCAPE & IRRIGATION PROTECTOR	DETAIL 9/C-401
20	TYPICAL HMAC PAVEMENT SECTION	DETAIL 1/C-402
21	BUTT JOINT	DETAIL 2/C-402
22	CONCRETE PAVEMENT DRIVE-THRU LANE	DETAIL 3/C-402
23	CONCRETE APRON AT TRASH ENCLOSURE	DETAIL 4/C-402
24	PAVEMENT EDGE DETAIL (START AND END OF DRIVE-THRU LANES)	DETAIL 5/C-402
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	KEYED 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













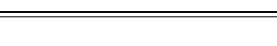

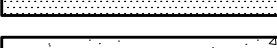
48	ALUMINUM HANDRAIL (REFER TO ARCH PLANS)	
49	DRIVE-THRU CLEARANCE BAR (REFER TO SIGNAGE PACKAGE)	
50	GREASE-TRAP	
51	PROPOSED TRANSFORMER	
52	STRIPING PER CHICK-FIL-A DUAL FLEX LANE REQUIREMENTS	
53	LANDSCAPED AREA	
54	4" THICK CONCRETE STRIP BETWEEN BUILDING & BACK-OF-CURB	
55	4" THICK CONCRETE STRIP 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  
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Development Services Department  
Lee's Summit, Missouri  
06/13/2024

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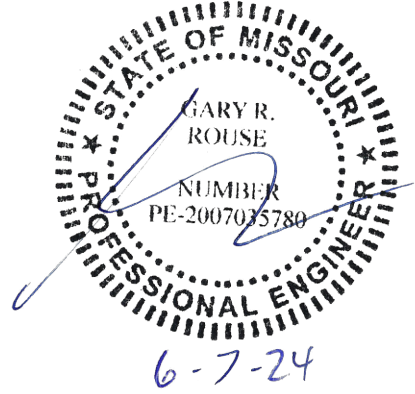


Chick-fil-A

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Atlanta, Georgia 30349-2998

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LEE'S SUMMIT, MO 64086

FSU# 02859

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

GBC PROJECT #	43215R
PRINTED FOR	Permit
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DRAWN BY	BAW

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SHEET

Permit  
PHASE 2  
SITE PLAN  
DETAIL

SHEET NUMBER

C-611



GRADING & UTILITY NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.

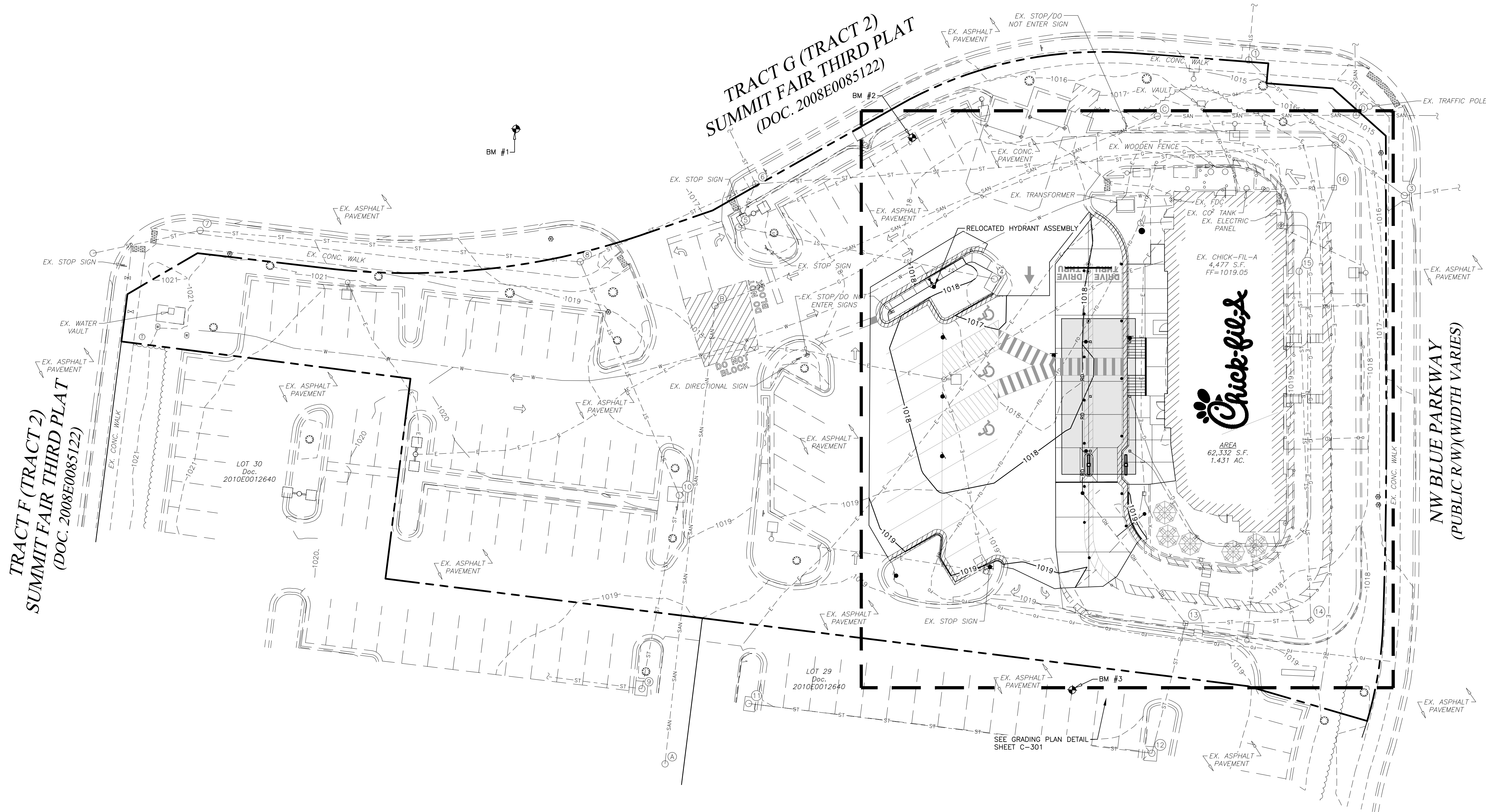
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADINGS. THE UTILITY SERVICE SIZES ARE TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE 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.
7. 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.
8. 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.
9. 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.
10. 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.

11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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

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

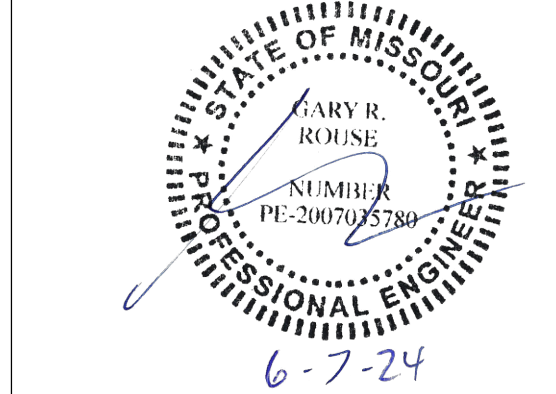


FLOOD ZONE DESIGNATION: THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO.29095C0417G, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE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

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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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	PHASING
3	6/7/2024	PHASING SCOPE
4	6/10/2024	

GBC PROJECT #	43215R
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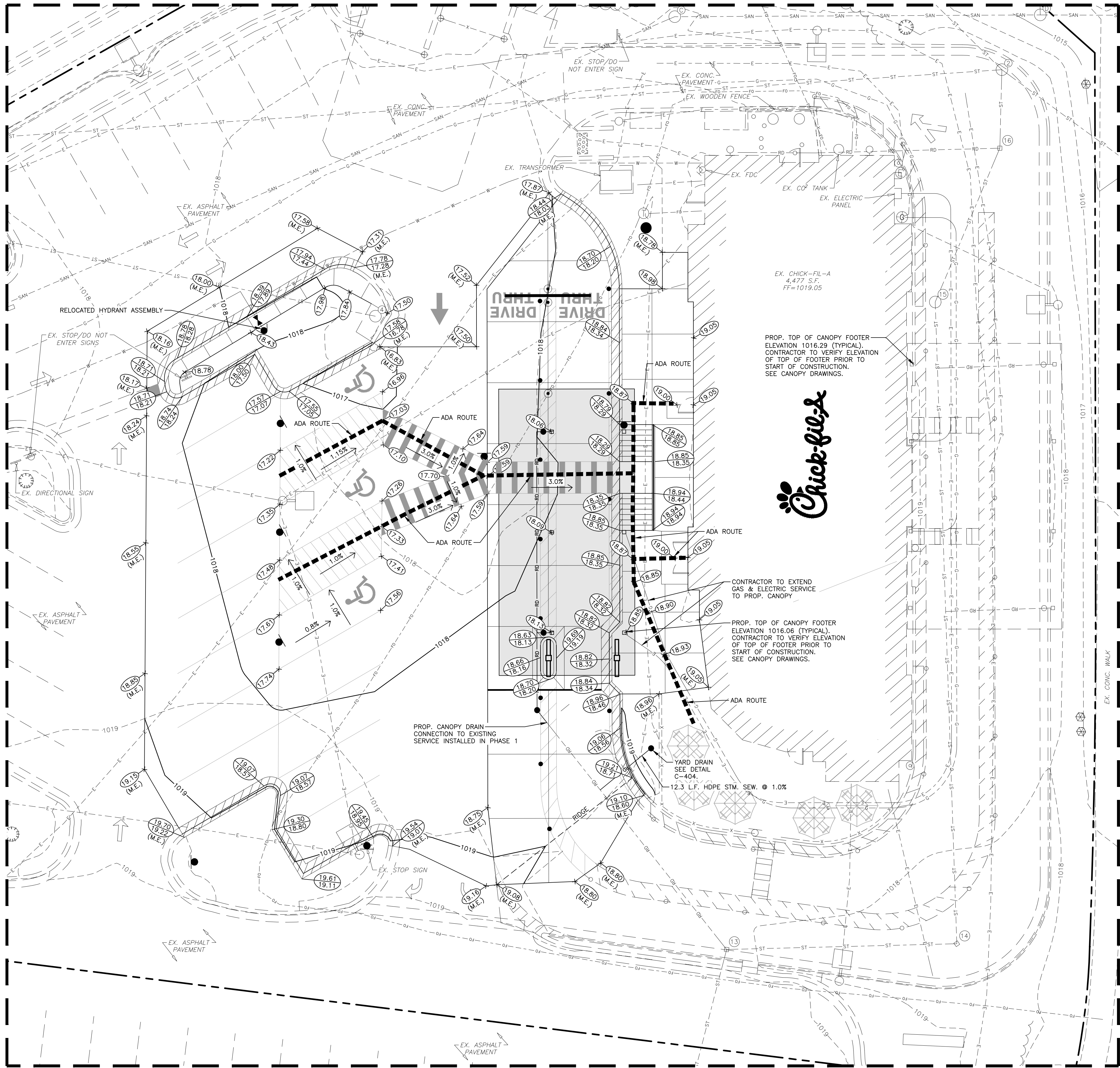
SHEET  
PHASE 2  
GRADING PLAN

SHEET NUMBER

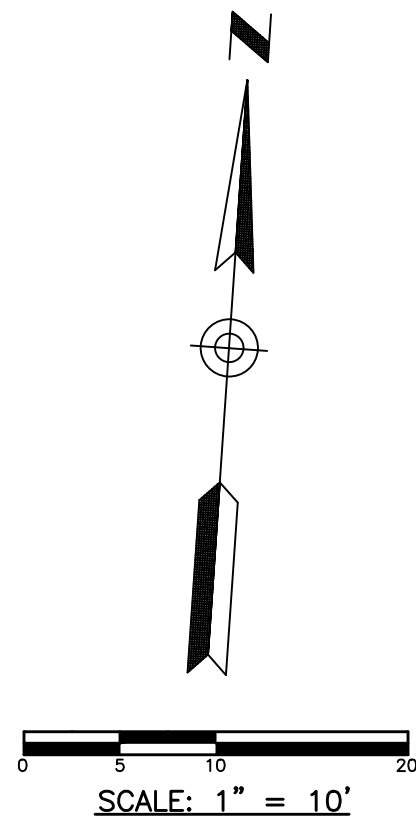
C-620



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.



- ADA ROUTE
1. SLOPES WITHIN ADA WALK AREA SHALL NOT EXCEED 5.0% IN ALL DIRECTIONS.
  2. RAMPS SHALL NOT EXCEED 7.14%.
  3. ADA PARKING STALLS SHALL NOT EXCEED 1.5% IN ALL DIRECTIONS.



LEGEND	
	PROP. FDC
	EX. FIRE HYDRANT
	PROP. VALVE
	EX. VALVE
	PROP. MANHOLE
	EX. MANHOLE
	PROP. INLET
	EX. INLET
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	PROP. TOP OF CURB ELEV.
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	MEET EXISTING ELEVATION

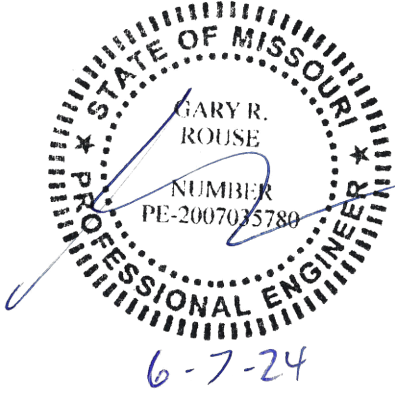
RELEASED FOR CONSTRUCTION  
As Noted on Plan Review  
Development Services Department  
Lee's Summit, Missouri  
06/13/2024



Chick-fil-A

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FSU# 02859

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

DESCRIPTION  
PHASING  
PHASING SCOPE

GBC PROJECT #	43215R
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SHEET

PHASE 2  
GRADING PLAN  
DETAIL

SHEET NUMBER

C-621



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.

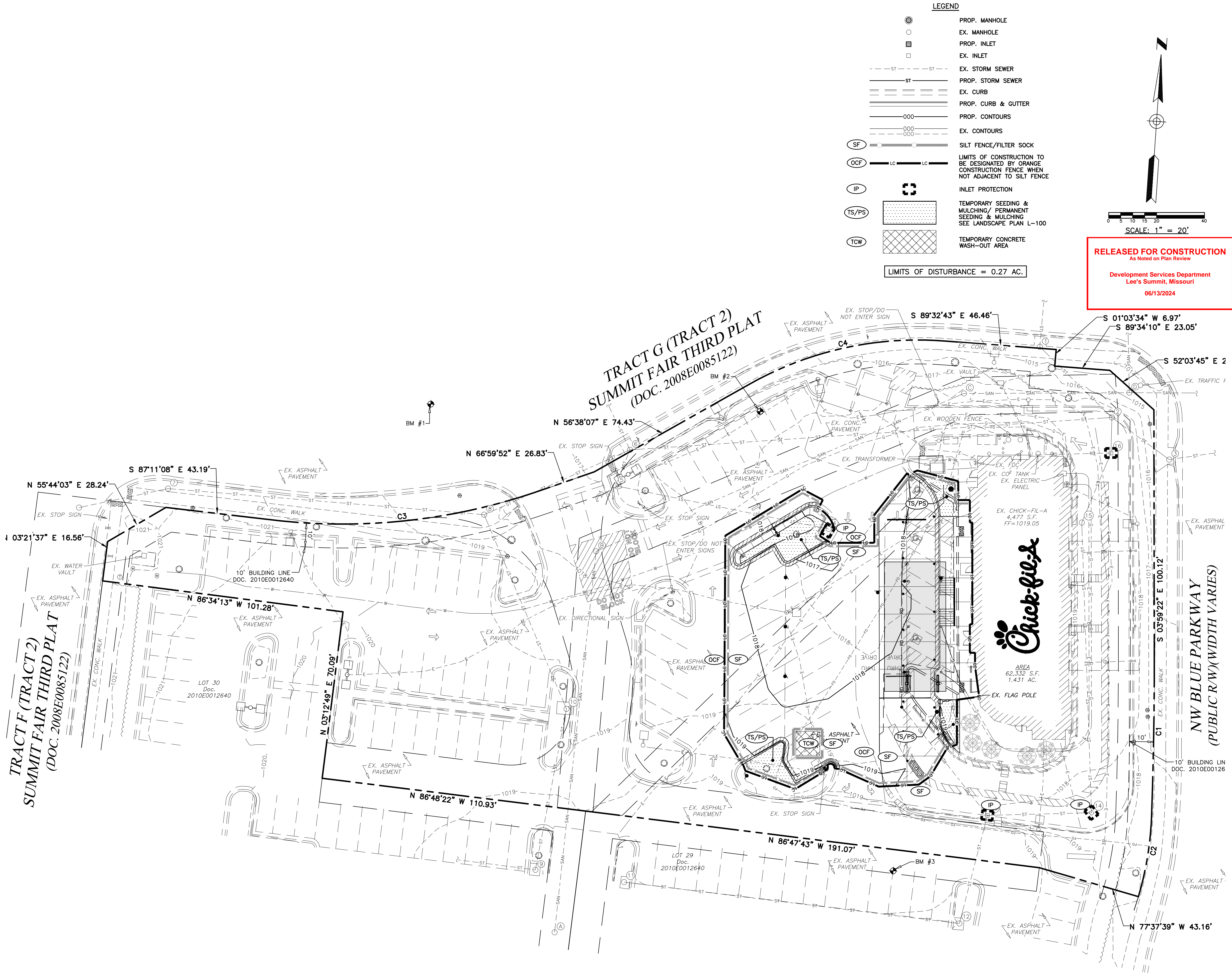
CONTRACTOR TO MAINTAIN A RAIN GAUGE ON SITE OR NEARBY REFERENCE FOR RECORDS. INSPECTORS OF THE SITE MUST HAVE COMPLETED THE WFC FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) COURSE.

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.

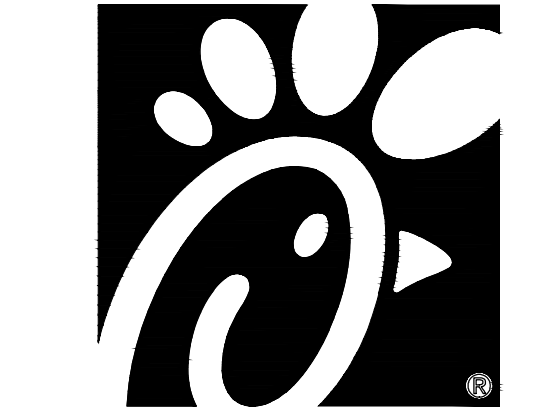
SEQUENCE OF CONSTRUCTION ACTIVITY

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.

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



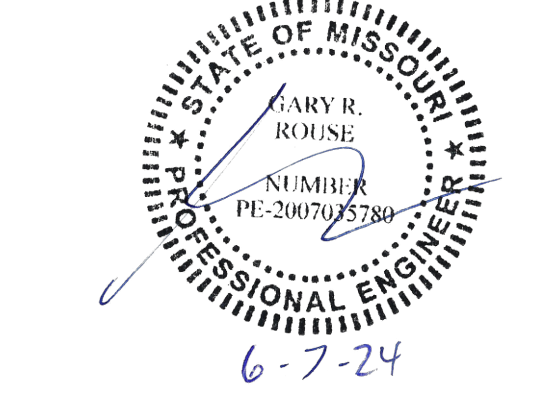
CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS 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

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LEE'S SUMMIT, MO 64086

FSU# 02859

REVISION SCHEDULE		DESCRIPTION
NO.	DATE	
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 2- STORMWATER

POLLUTION PREVENTION PLAN

(SWPPP)

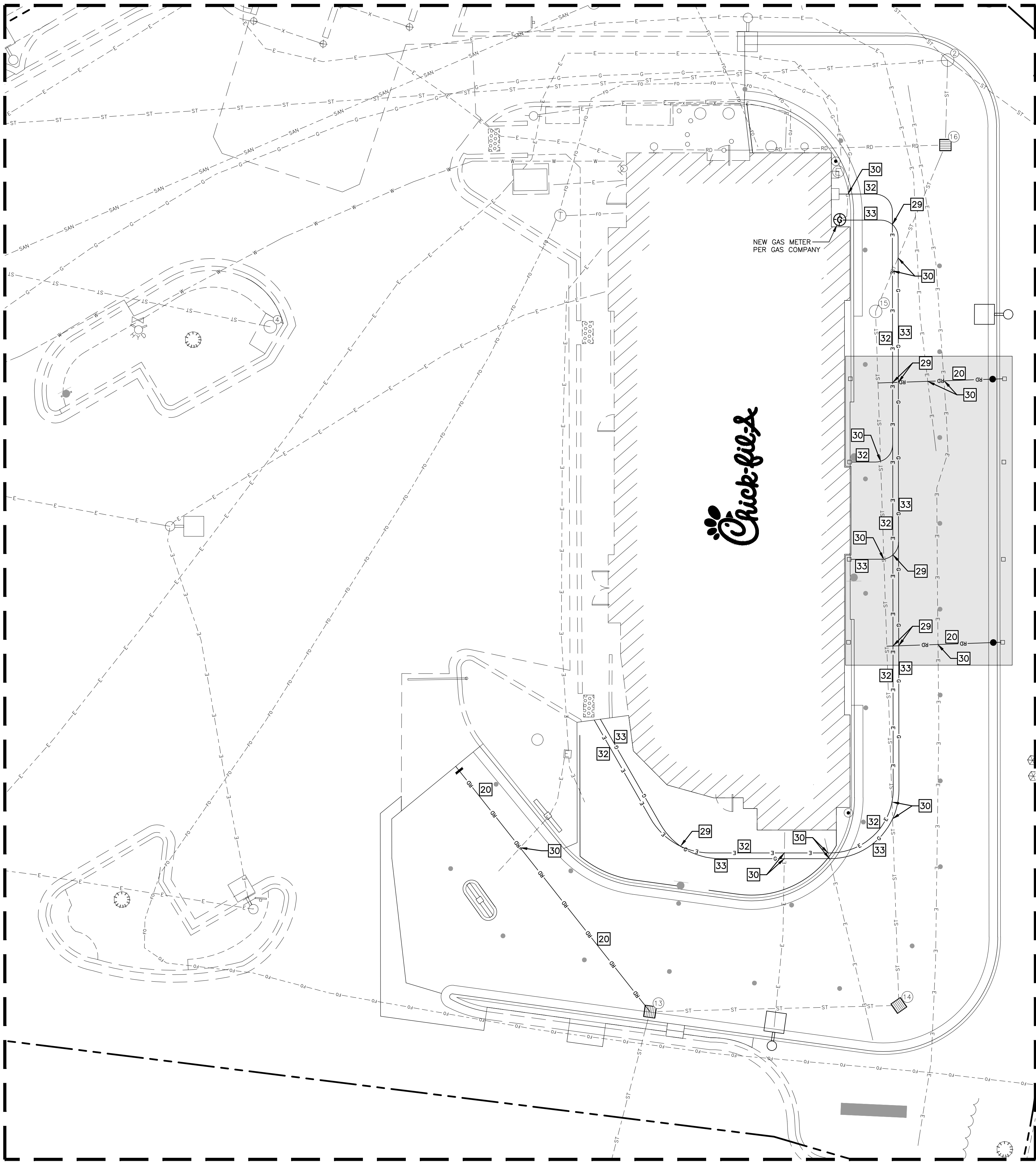
SHEET NUMBER

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
  - PROP. SANITARY LATERAL
  - PROP. SANITARY LATERAL VENT
  - EX. SANITARY SEWER (PRIVATE)
  - PROP. STORM SEWER
  - PROP. ROOF DRAIN
  - EX. STORM SEWER
  - PROP. FIRE WATER LINE
  - PROP. DOMESTIC WATER LINE
  - PROP. FIRE WATER SERVICE
  - PROP. WATER MAIN
  - PROP. IRRIGATION SERVICE

MISCELLANEOUS NOTES:

- ALL THE BUILDING UTILITY SERVICE LOCATIONS TO BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO THE START OF CONSTRUCTION.
- 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

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.

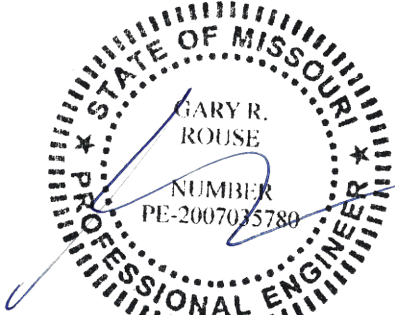


Chick-fil-A

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



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

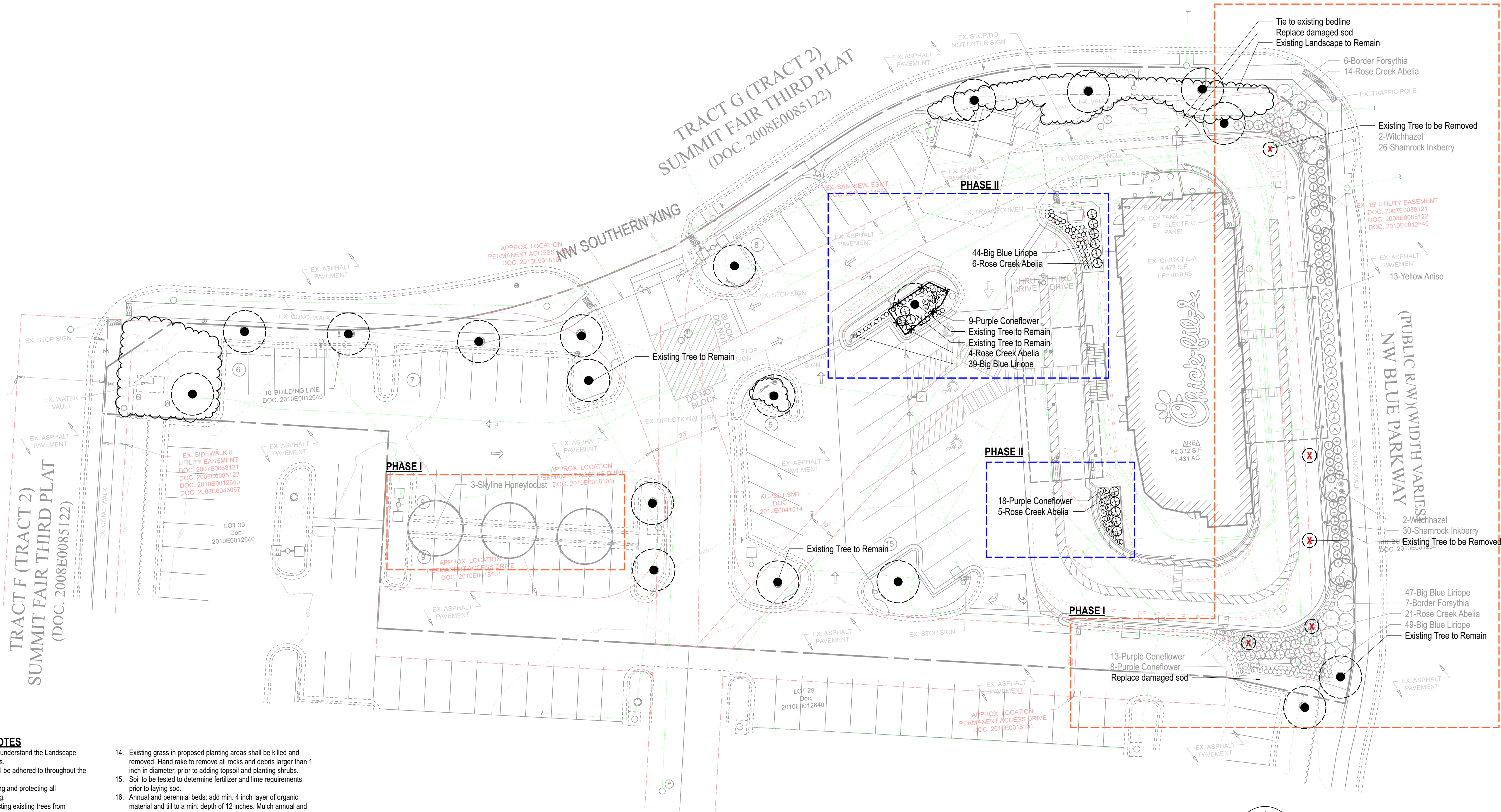
GBC PROJECT #	43215R
PRINTED FOR	Permit
DATE	8/23/23
DRAWN BY	BAW

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SHEET  
UTILITY PLAN

SHEET NUMBER  
PS-100





#### 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 Contractor.
- 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 indentions 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

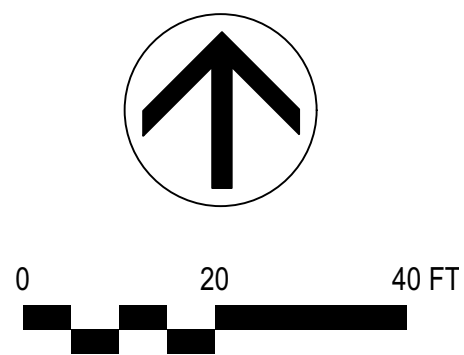
A. FRONTAGE LANDSCAPE				
REQUIRED	1.	(1) tree per 30 LF and (1) shrub per 20 LF of street frontage		
		NW Blue Pkwy: 205 LF / 30 LF x 1 tree	=	7 street trees required
		205 LF / 20 LF x 1 shrub	=	10 shrubs required
		NW Southern Xing: 456 LF / 30 LF x 1 tree	=	15 street trees required
PROVIDED	1.	456 LF / 20 LF x 1 shrub	=	23 shrubs required
		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
B. INTERIOR LANDSCAPING	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
		PROVIDED 1. 8 tree existing, 3 honeylocust	=	11 trees provided
C. PARKING LANDSCAPE	1.	5% of parking area to be landscape area		
		40,449 SF x 5%	=	2,022 SF of landscape area required
		PROVIDED 1. Landscape area	=	2,500 SF of landscape area provided

#### PLANT LIST - PHASE I

Qty	Botanical Name	Common Name	Scheduled Size	Remarks
Trees				
3	Gleditsia triacanthos inermis 'Skyline'	Skyline Honeylocust	3" Cal; 12' Hgt.	B & B Specimen
4	Hamamelis virginiana	Witchhazel	6-8' Hgt	
Shrubs				
35	Abelia x chinensis 'Rose Creek'	Rose Creek Abella	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.	
Groundcovers				
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.
Other				

#### PLANT LIST - PHASE II

Qty	Botanical Name	Common Name	Scheduled Size	Remarks
Trees				
Shrubs				
15	Abelia x chinensis 'Rose Creek'	Rose Creek Abella	3 Gal.	
Groundcovers				
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.
Other				



Know what's below.  
Call before you dig.

RELEASED FOR CONSTRUCTION  
As Noted on Plan Review

Development 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

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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
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
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DATE	8/22/23
DRAWN BY	KCN

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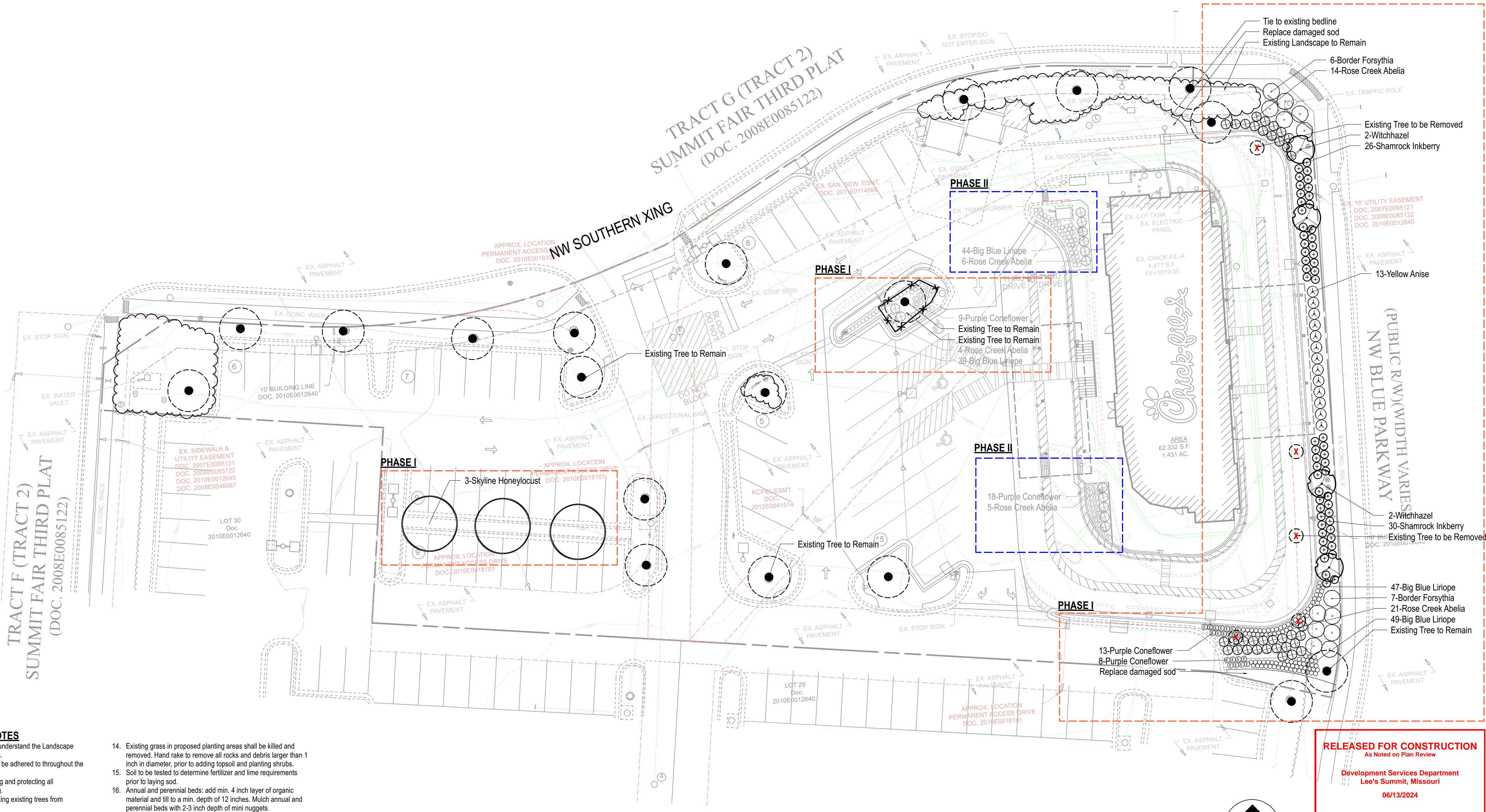
SHEET

PERMIT  
Landscape Plan  
Phase II

SHEET NUMBER

L-100.1





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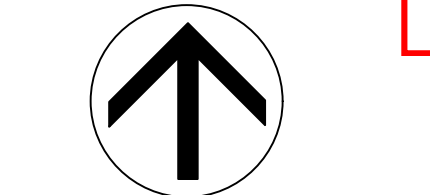
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Other				

PLANT LIST - PHASE II

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Other				



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

IRRIGATION SYSTEM RETROFIT

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manley  
LAND DESIGN  
Landscape Architecture

Manley Land Design, Inc.  
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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
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
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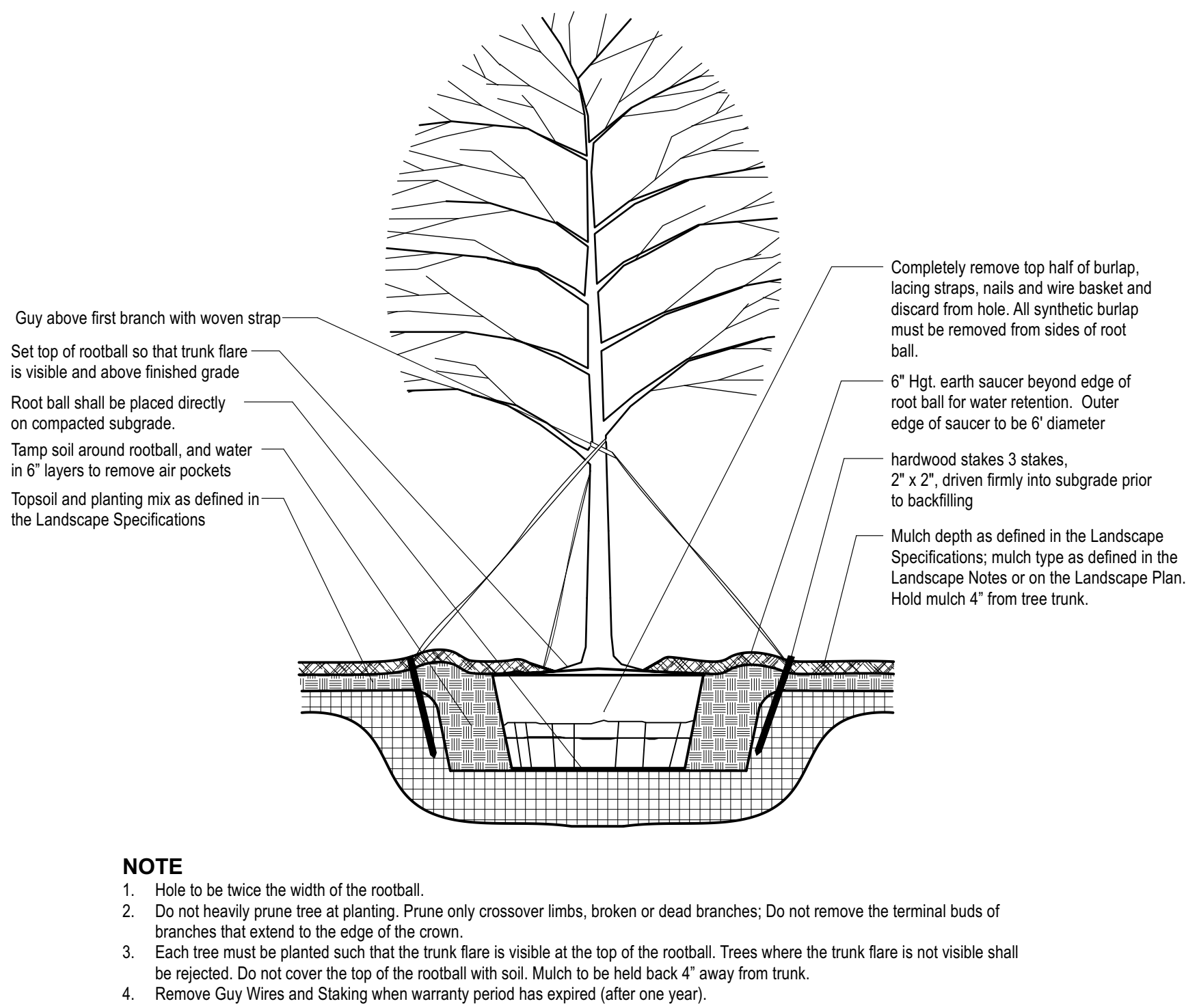
SHEET

PERMIT  
Landscape Plan  
Phase I

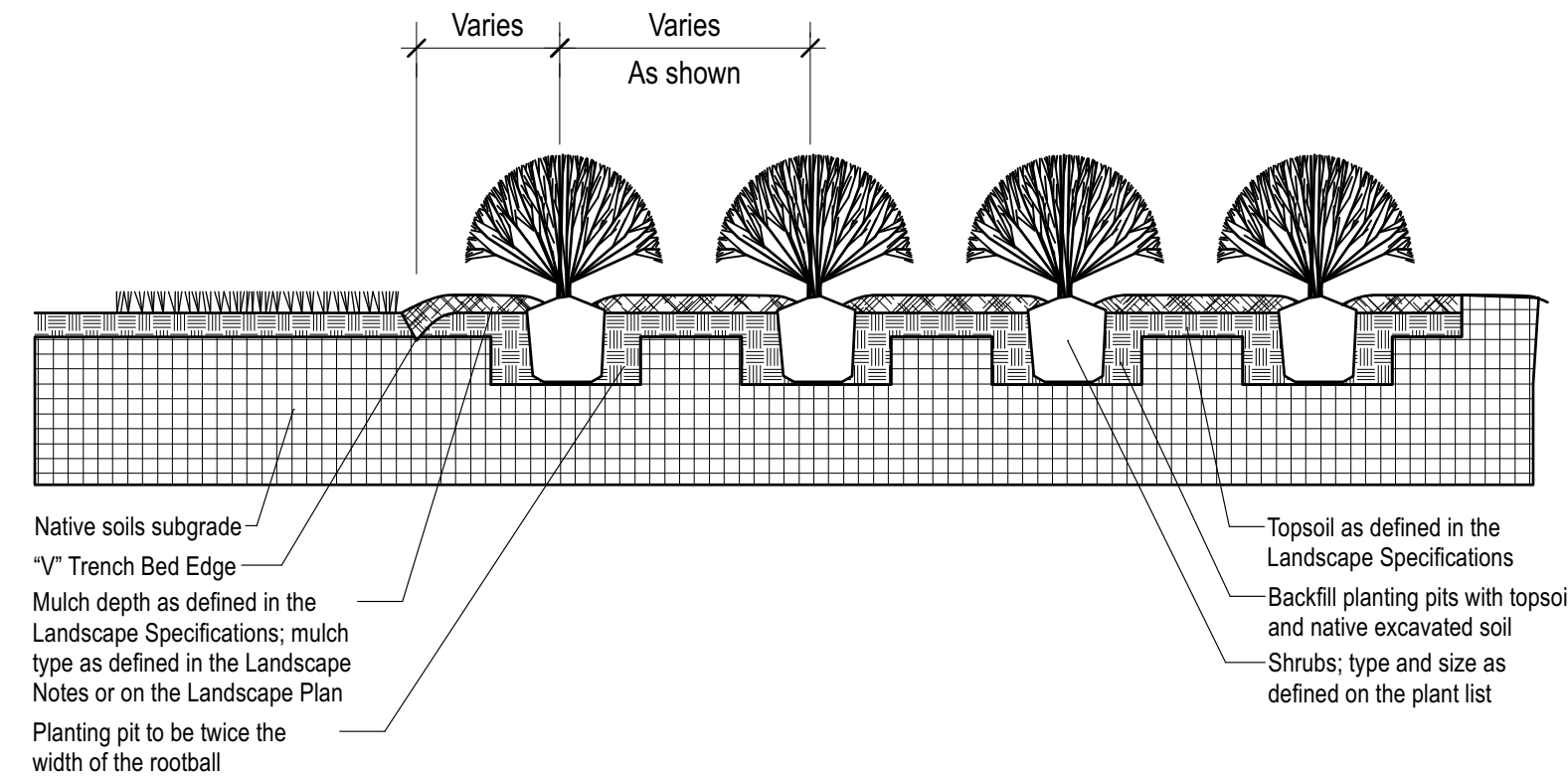
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L-100

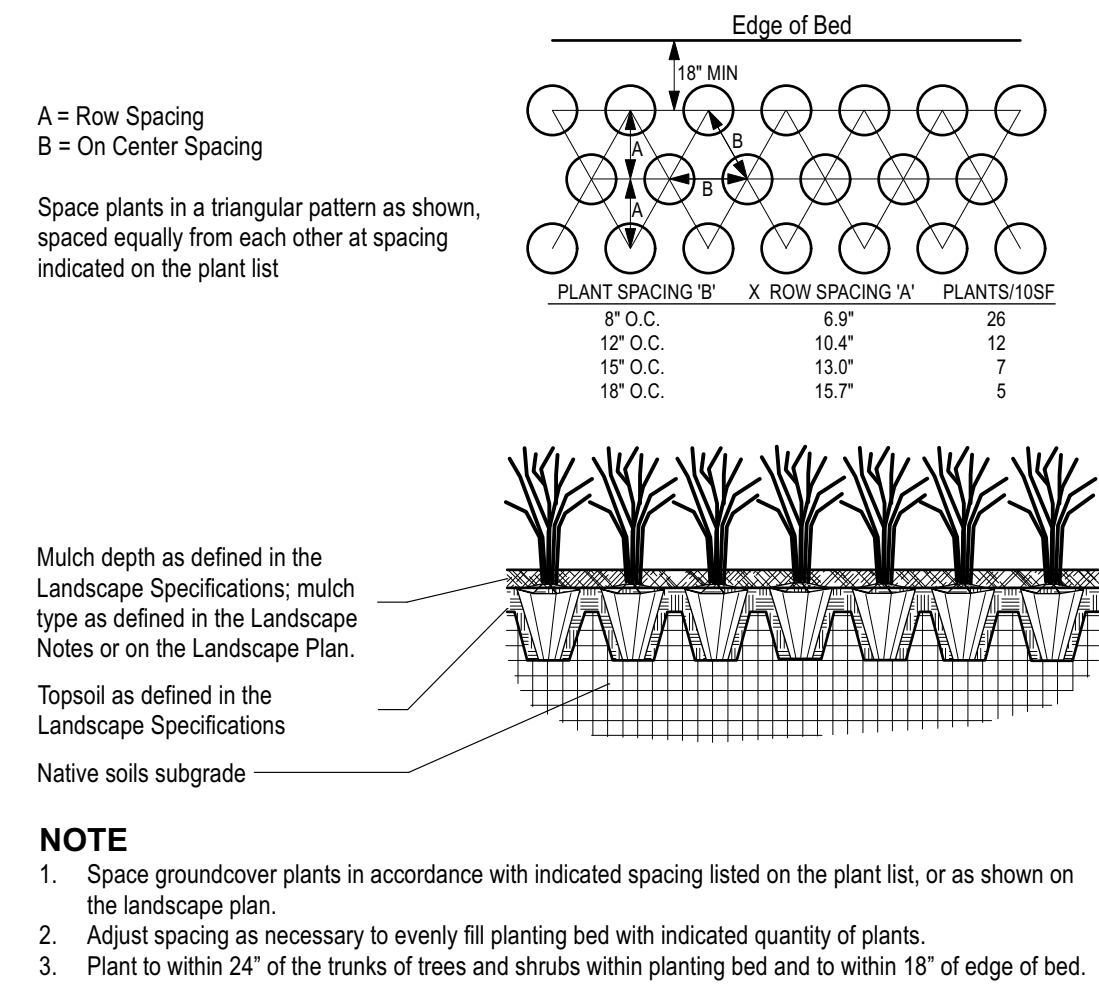




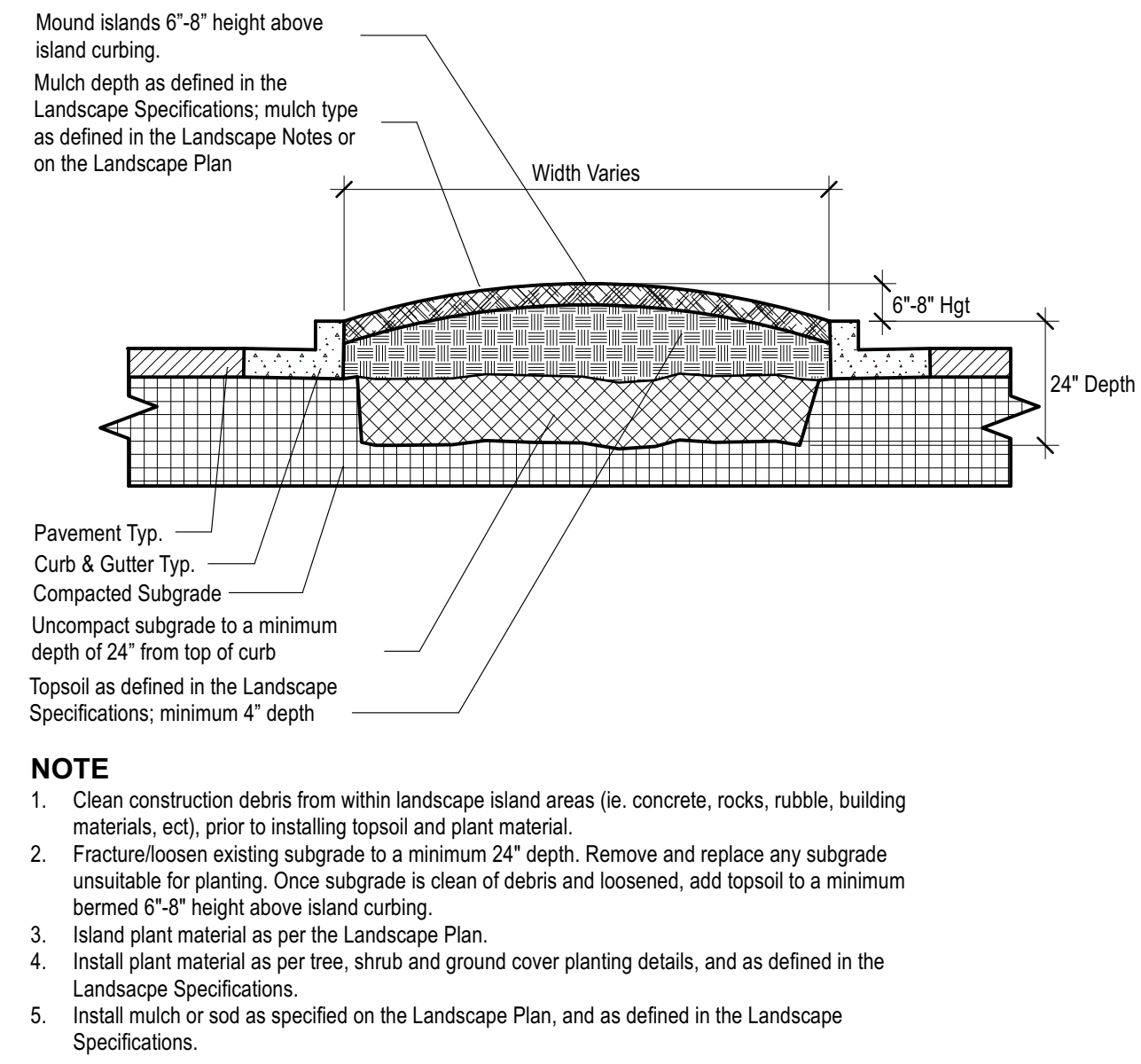
1 **TREE PLANTING & STAKING**  
SCALE: NTS



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



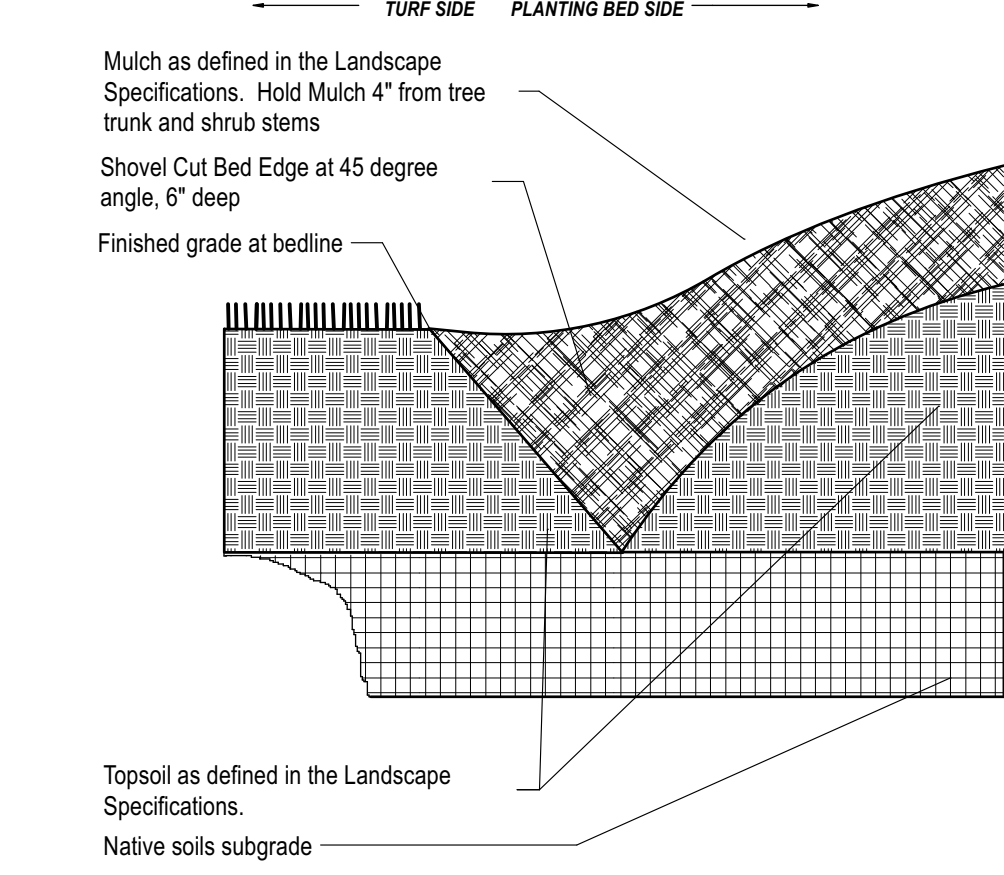
3 **GROUNDCOVER PLANTING DETAIL**  
SCALE: NTS



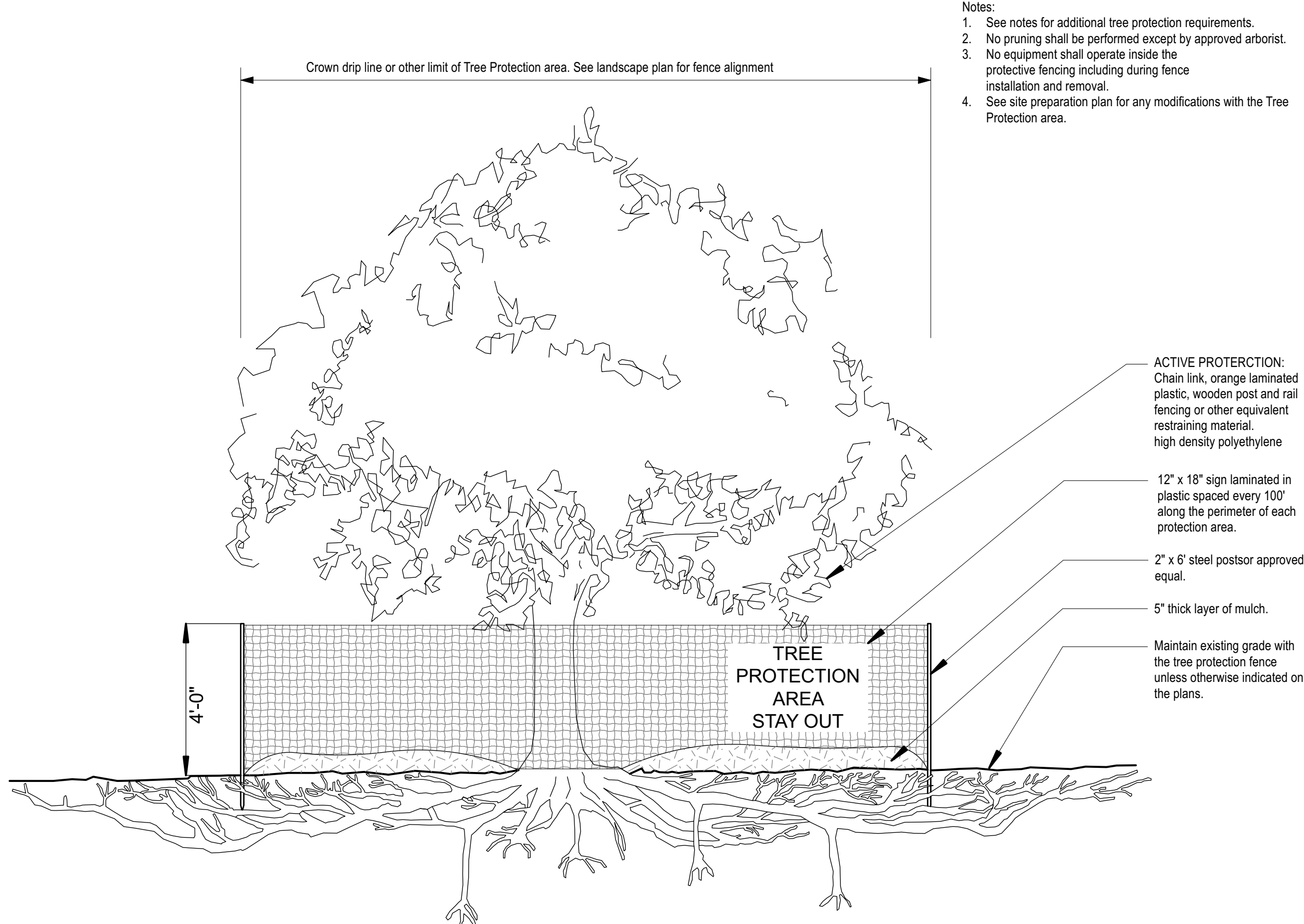
4 **PARKING ISLAND DETAIL**  
SCALE: NTS

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As Noted on Plan Review

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



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



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



**Chick-fil-A**  
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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**

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

MLD PROJECT #	2023216
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SHEET

**Landscape Details**

SHEET NUMBER

**L-101**

PERMIT



## 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. Do not transport 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 die. 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.
3. Plants planted in rows shall be matched in form.
4. 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.
5. 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.
6. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.
7. Evergreen trees shall be banded to the ground or as specified in plant list.
8. 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 much 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. Needles 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 aloeoli spread the mulch to avoid injuring the plants. Gently brush the mulch off the plants.

#### Guying/Staking:

1. Arbotrie: Green (or white) staking and guying material to be flat, woven, polypropylene material, ¾" wide 900 lb. break strength. Arbotrie shall be fastened to stakes in a manner which permits tree 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, 2-1/2" 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, mulch 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
pH Range	5.0-7.0	6.0-7.0
Organic Matter	>1.5%	>2.5%
Magnesium (Mg)	100-lbs./acre	100-lbs./acre
Phosphorus (P2O5)	150-lbs./acre	150-lbs./acre
Potassium (K2O)	120-lbs./acre	120-lbs./acre
Solubility	Not to exceed 900ppm/1.9 mmhos/cm in soil; not to exceed 1400 ppm/2.5 mmhos/cm in high organic mix	Not to exceed 750ppm/0.75 mmhos/cm in soil; not to exceed 2000 ppm/2.0 mmhos/cm in high organic mix
Conductivity		
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 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 sheared as required. Dead wood shall be removed from sheared plants before the first pruning of the season.
7. Conifers shall be pruned, if required, according to their genus.
  - A. Yews, junipers, hemlocks, arbutoviae, 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, ilacs, 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, spiraea, 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. Eriaceous material shall be fertilized with an ericaceous 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*, authorized 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.

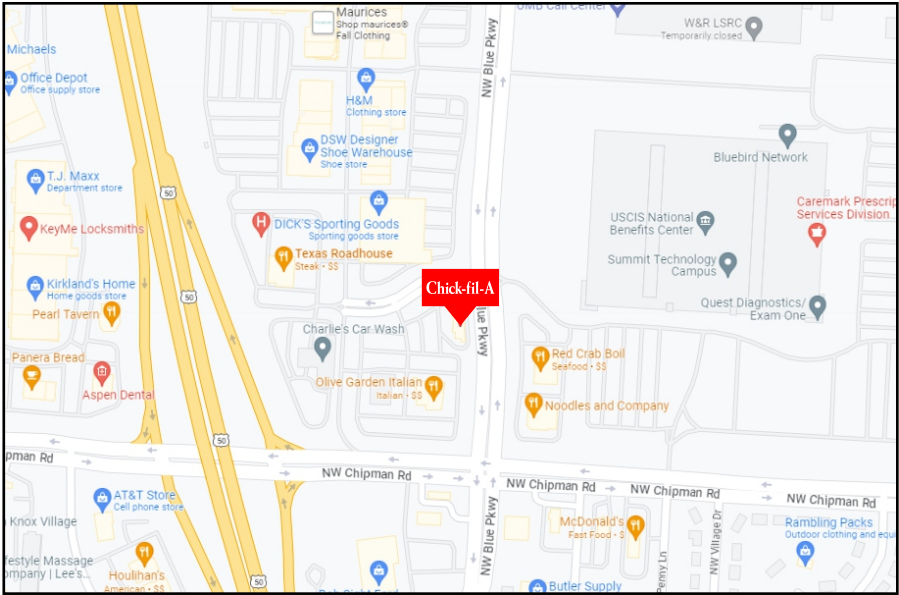
##### Flower Rotation:

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 square feet 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 until the first killing frost and then removed, unless otherwise directed by the owner.

#### Perennials:

1. After initial installation, if a time-released fertilizer has been incorporated during plant installation, no more fertilizer need be applied the first growing season.
2. The following year:
  - a. Fertilize perennials with a slow-release fertilizer or any 50% organic fertilizer, or mulch perennials with compost 1" deep.



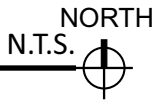


VICINITY MAP

N.T.S.



AERIAL VIEW



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RELEASED FOR CONSTRUCTION  
As Noted on Plan Review

Development Services Department  
Lee's Summit, Missouri

06/13/2024

Design #	0637033Ar3
Sheet	1 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	

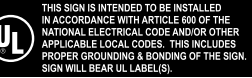
Revision/Date
R1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE STOP/DNE
R2(1/16/24)JLL: ADDED STAMPED ENGINEERING CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD 'G.C.' IN FRONT OF REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4
R3(02/26/2024)AM: UPDATED SP, ADDED NOTE FOR SIGN A FOR CSI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



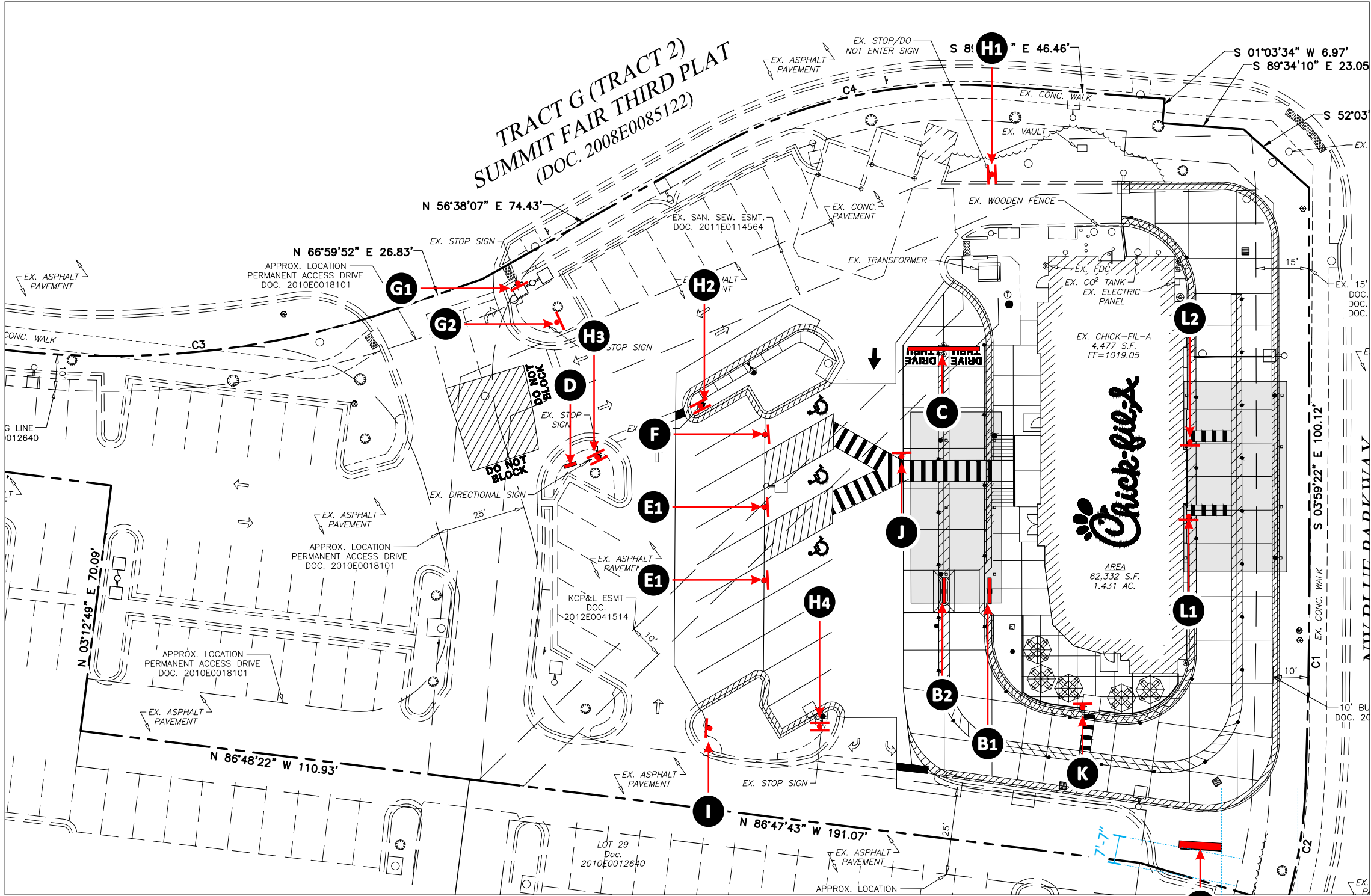
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FINAL ELECTRICAL  
CONNECTION BY  
CUSTOMER







SITE PLAN 1

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

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

Development Services Department  
Lee's Summit, Missouri

06/13/2024

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**  
#2859

**Address**  
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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**

**Art**

**Engineering**

**Landlord**

**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

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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).

**SITE PLAN/KEY**





**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**

**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**

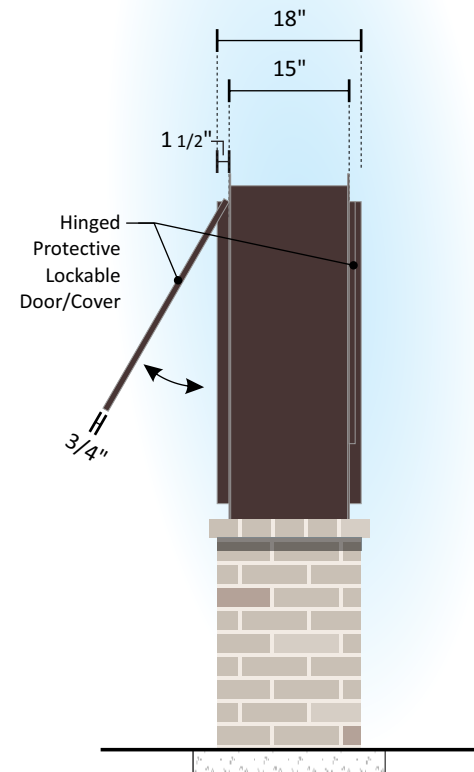
ONE ( 1 ) 4 1/2" O.D. x .237" WALL STEEL SUPPORT ONE ( 1 ) 24" x 5'-0" DEEP CONCRETE PIER.

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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Development Services Department  
Lee's Summit, Missouri

06/13/2024

Design #0637033Ar3

Sheet3 of 27

Client#2859

Address690 NW Blue Pkwy,  
Lees Summit, MO

Account Rep.KRISTEN HAMILTON  
TERRI BROWN

DesignerLEAH LANSFORD

Date9/29/23

Approval / Date

Client

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Landlord

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CHANDLER

SIGNS

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San Antonio

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FINAL ELECTRICAL  
CONNECTION BY  
CUSTOMER

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APPLICABLE LOCAL CODES. THIS INCLUDES  
PROPER GROUNDING & BONDING OF THE SIGN.  
SIGN WILL BEAR UL LABEL(S).

UL

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

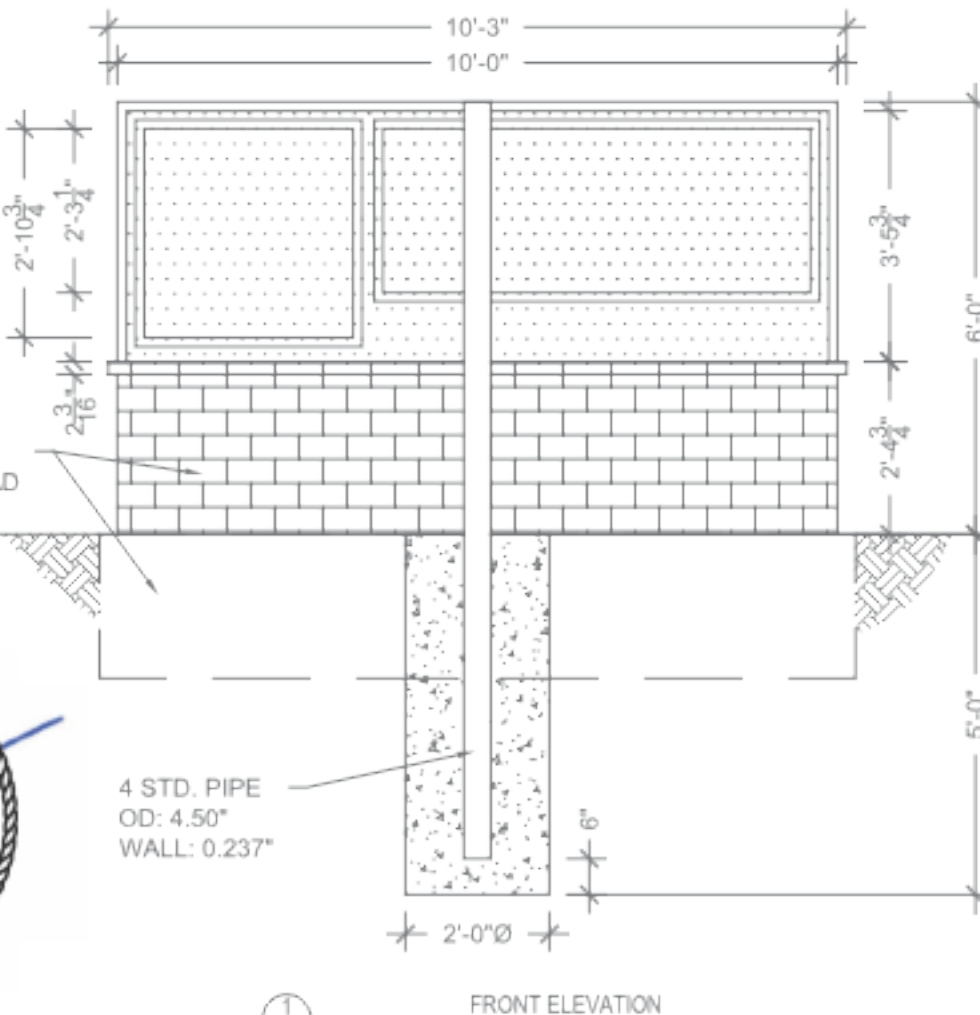
DATE: 1-9-2024  
ENGINEER: JD  
LAST REVISED:



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



10'-3"  
10'-0"  
2'-10 3/4"  
2'-3 1/4"  
2'-3 1/4"  
3'-5 3/4"  
6'-0"  
2'-4 3/4"  
5'-0"  
2'-0" Ø  
4 STD. PIPE  
OD: 4.50"  
WALL: 0.237"  
6"  
1-1  
FRONT ELEVATION

MASONRY AND BASE PAD BY OTHERS

STATE OF MISSOURI  
MICHAEL F. SULLAWAY  
NUMBER  
PE-2010022411  
PROFESSIONAL ENGINEER  
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.

v5.5 units; pounds, feet unless noted otherwise

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

$F = q_z \cdot G \cdot C_f \cdot A_f$  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)  $1.00$  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)

$s/h = 1.000$

$B/s = 1.67$

weight= 0.600 kips

$M_{DL} = 0.00$  k-ft

Pole Loads	structure component	height at section c.g.	$K_z$	$q_z$	pressure $q_z \cdot G \cdot C_f$	$A_f$	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:							60.0	1618
for s/h=1, add 10% (asce fig. 29.4-1):							x 1.10	5.34
$P_u = 0.72$ kip								
$M_u = \sqrt{(1.2 M_{DL})^2 + 1.0 M_w^2} = 5.34$ k-ft								
							M=	5.34 k-ft
								$M = \sqrt{(M_{DL})^2 + M_w^2}$

**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, $M_n = 10.6$ k-ft

**Footing Design** footprint: round

$\omega = 1.3$	IBC 1606.3.2	IBC Table 1806.2, sections 1806.3.4, 1807.3.2	$S = (1.3 \times 2 \times)$
$P = 1.26$ kip		$S_1 = S \times d / 3$	$A = 2.34 \times P / (S_1 \times b)$
$S_1 = 586$		$d = 0.5 \times A (1 + (1 + 4.38 \times h/A)^{.5})$	IBC 1807.3.2.1
$A = 2.52$			

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

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A



SULLAWAY

ENGINEERING

11545 W. Bernardo Court, San Diego, CA 92127

projectmanager@sullawayeng.com

Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: CHICK-FIL-A 2859

DATE: 1/9/24

PROJ. NO.: 43787A

ENGINEER: JD

CLIENT: CHANDLER SIGNS

v6.5

units; pounds, feet unless noted otherwise

Check Buckling for Round HSS Section

Pole Design-AISC

section; pipe<=12"

weight= 0.6 kips

F<sub>y</sub>= 35 ksi

= 0.9

E= 29,000 ksi

H

M<sub>u</sub>(k-ft)

Size(in)

t (in)

Z

S

at grade

5.34

2.03

4.5

0.220

4

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<sub>r</sub>= 0.80 k

D/t= 20.4

KL/r= 95.0

K= 2

F<sub>e</sub>= 32.8 ksi (E3-4)

4.71sqrt(E/f<sub>y</sub>)= 137.9

for D/t < 0.07 E/F<sub>y</sub> section is compact

for D/t < 0.31 E/F<sub>y</sub> section is non-compact

F<sub>cr</sub>= 22.39

F<sub>cr</sub>= 28.74

use F<sub>cr</sub>= 22.39

0.07 E/F<sub>y</sub>= 58

0.31 E/F<sub>y</sub>= 257

Section is compact

P<sub>n</sub>=F<sub>cr</sub>A<sub>g</sub>= 66.3 k

M<sub>n</sub>=(0.021E/(D/t) + F<sub>y</sub>)S= 16.6 k (non-compact)

M<sub>n</sub>=F<sub>y</sub>Z= 11.8 k-ft (compact)

M<sub>n</sub>=F<sub>cr</sub>S= 5.6 k-ft (slender - slender sections NOT USED)

use M<sub>n</sub>= 11.8 k-ft

M<sub>c</sub>=φM<sub>n</sub>= 10.6 k-ft

P<sub>c</sub>=φP<sub>n</sub>= 59.7 k

P<sub>r</sub>/P<sub>c</sub>= 0.0134

P<sub>r</sub>/2P<sub>c</sub>= 0.0067

P<sub>r</sub>/P<sub>c</sub> + 8/9 \* M<sub>r</sub>/M<sub>c</sub> = 0.461

For P<sub>r</sub>/P<sub>c</sub><0.2; P<sub>r</sub>/2P<sub>c</sub> + M<sub>r</sub>/M<sub>c</sub> = 0.510

use 0.51

P<sub>u</sub>/φP<sub>n</sub> = 0.01337

M<sub>u</sub>/φM<sub>n</sub> = 0.50341

AISC Chap. E3

AISC Chap. H1

(F8-2)

Round Pipe Torsion Capacity

Pipe

D= 4.5 in

t= 0.22041 in

L= 40 ft

J= 14

C= 6 in3

E= 29 x10e6 psi

C=2J/d

J=pie/32(d^4-(d-2t)^4)

T<sub>n</sub>=F<sub>cr</sub>C

φ= 0.9

AISC H3

F<sub>cr</sub>=1.23E / ( sqrt(L/D)(D/t)^1.25 )

F<sub>cr</sub>= 79.6 ksi

max;

F<sub>cr</sub>= 188.6 ksi

F<sub>cr</sub>=0.6E / ( (D/t)^1.5 )

F<sub>cr</sub>= 188.6 ksi

F<sub>cr</sub> < 0.6F<sub>y</sub>

0.6F<sub>y</sub> = 21 ksi

F<sub>cr</sub>= 21.0 ksi

T<sub>u</sub>= 3.2 k-ft

φT<sub>n</sub>= 114 k-in

10 k-ft

( T<sub>u</sub>/φT<sub>n</sub> )<sup>2</sup>= 0.115

P<sub>u</sub>/φP<sub>n</sub> +M<sub>u</sub>/φM<sub>n</sub> +( T<sub>u</sub>/φT<sub>n</sub> )<sup>2</sup>= 0.63

ok

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0637033Ar3

Sheet 5 of 27

Client

#2859

Address

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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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Revision/Date

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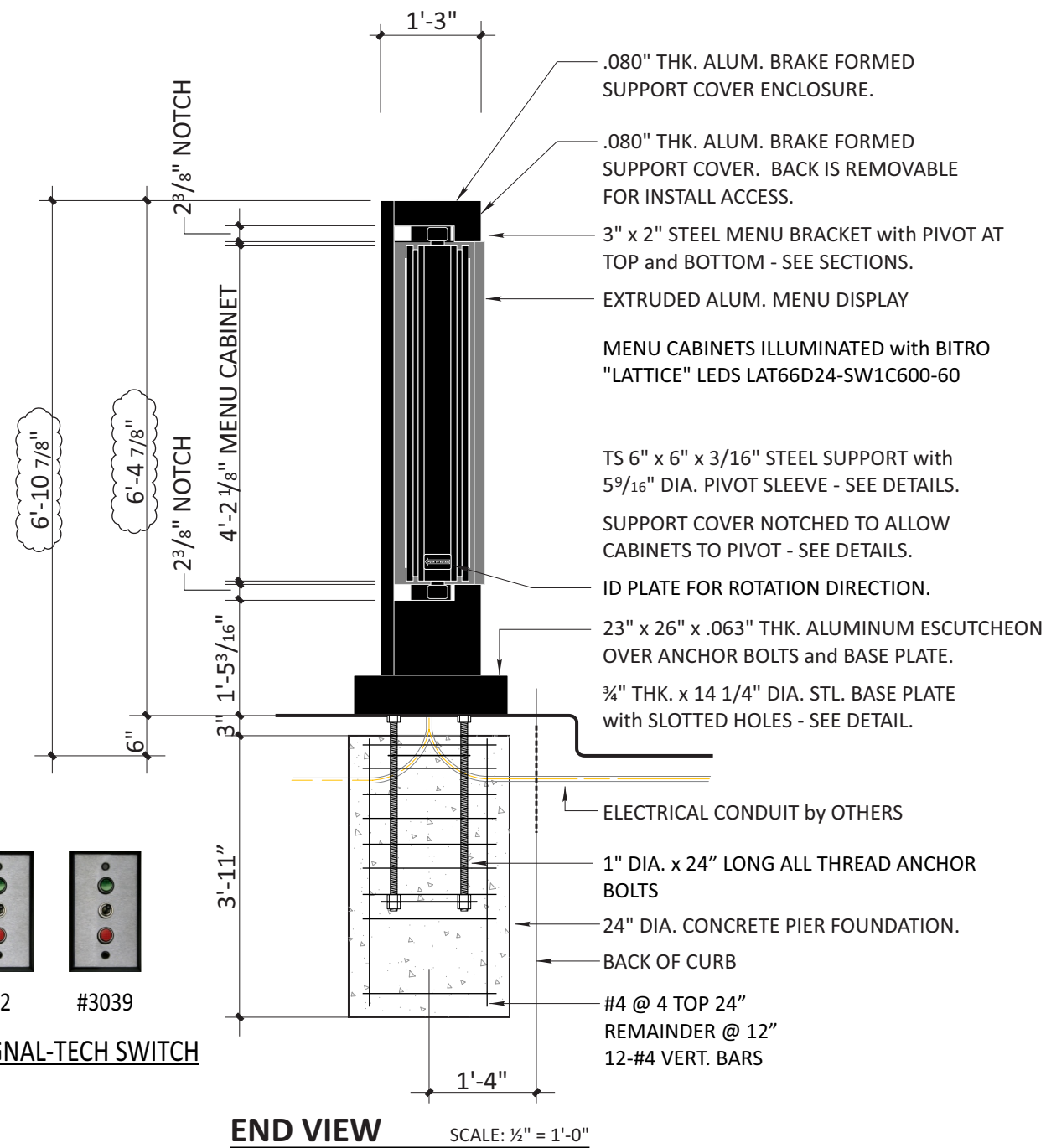
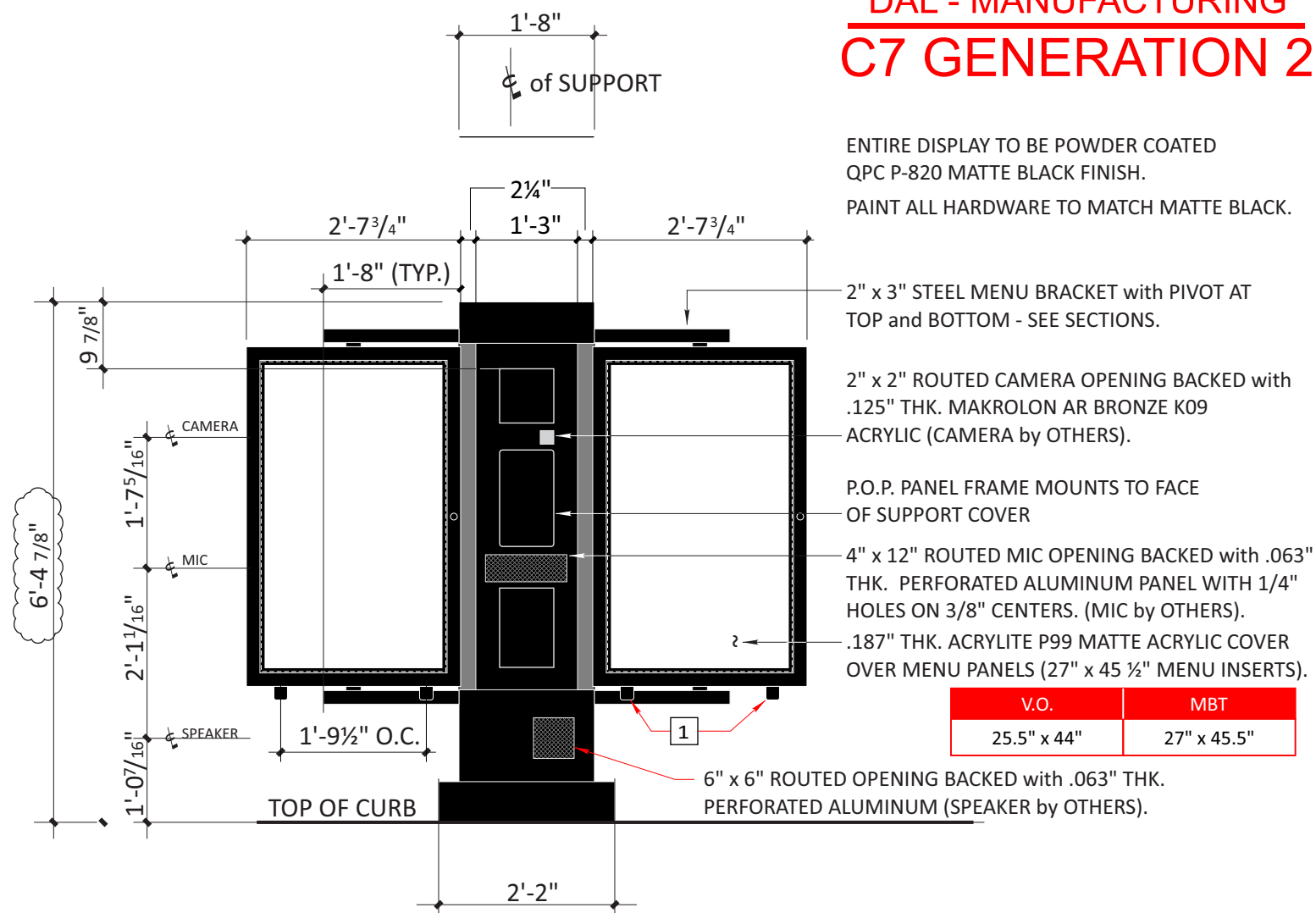
UL

Chick-fil-A

A



DAL - MANUFACTURING  
C7 GENERATION 2



B1 B2

CFA - C7 GEN 2 ORDERING STATION W/O CANOPY

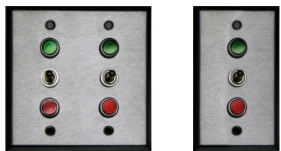
SCALE: 1/2" = 1'-0"

TWO ( 2 ) REMOVALS REQUIRED - MANUFACTURE & INSTALL

G.C. TO REMOVE AND DISCARD EXISTING C7'S.

MANUFACTURE AND INSTALL TWO NEW C7'S IN NEW LOCATION.

G.C. TO CONFIRM ELECTRICAL.



#1992

#3039

INTERIOR SIGNAL-TECH SWITCH



EXISTING CONDITIONS

2014/2017 NEC  
COMPLIANT LABEL

<b>DANGER!</b>
INTERNAL ENERGIZED PARTS TURN OFF POWER AT BREAKER PANEL
POWER SOURCE FOUND
FLOOR _____
BREAKER PANEL _____
BREAKER # _____

WARNING LABEL/  
BREAKER LOCATION

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Sheet 6 of 27

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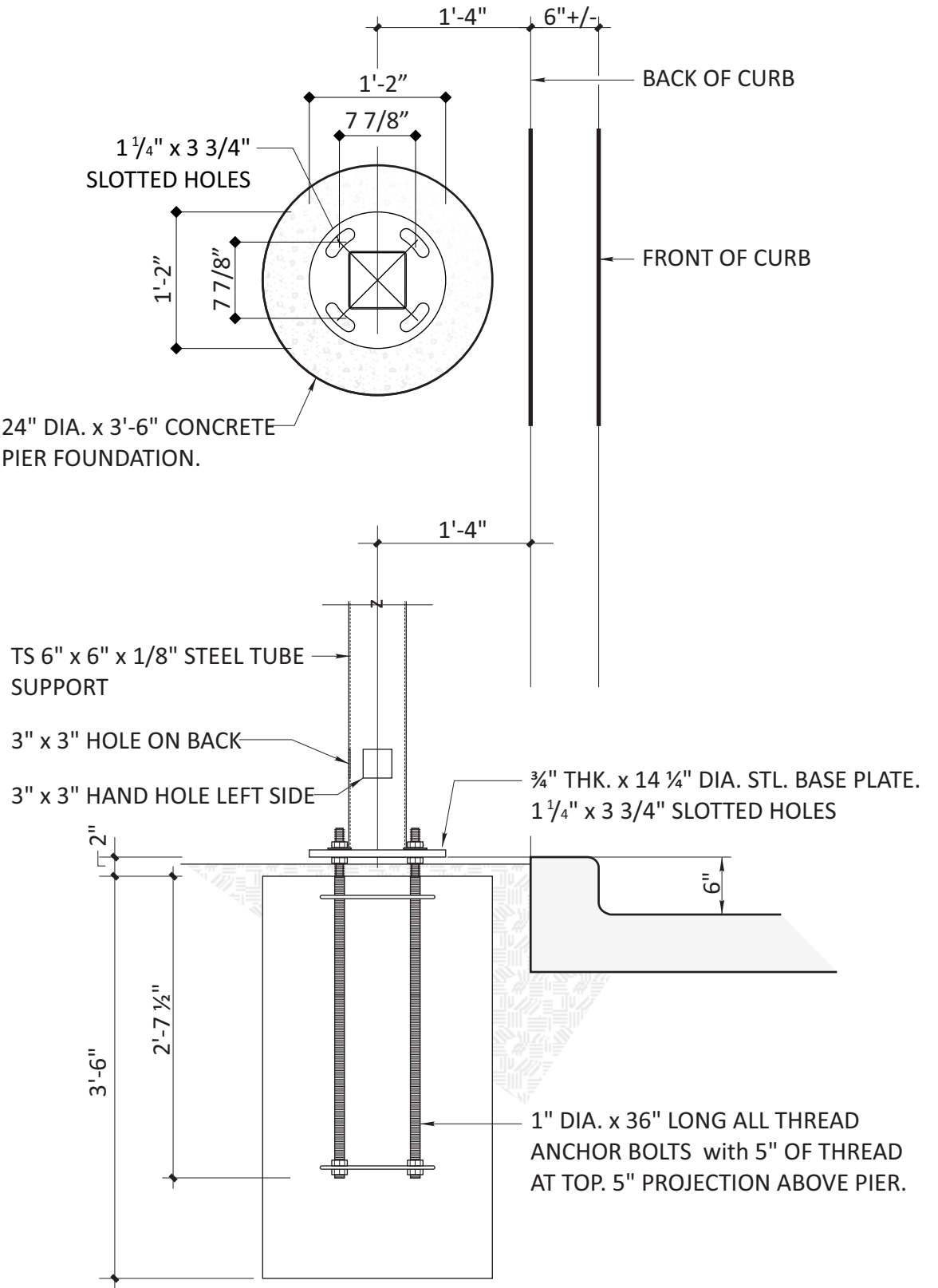
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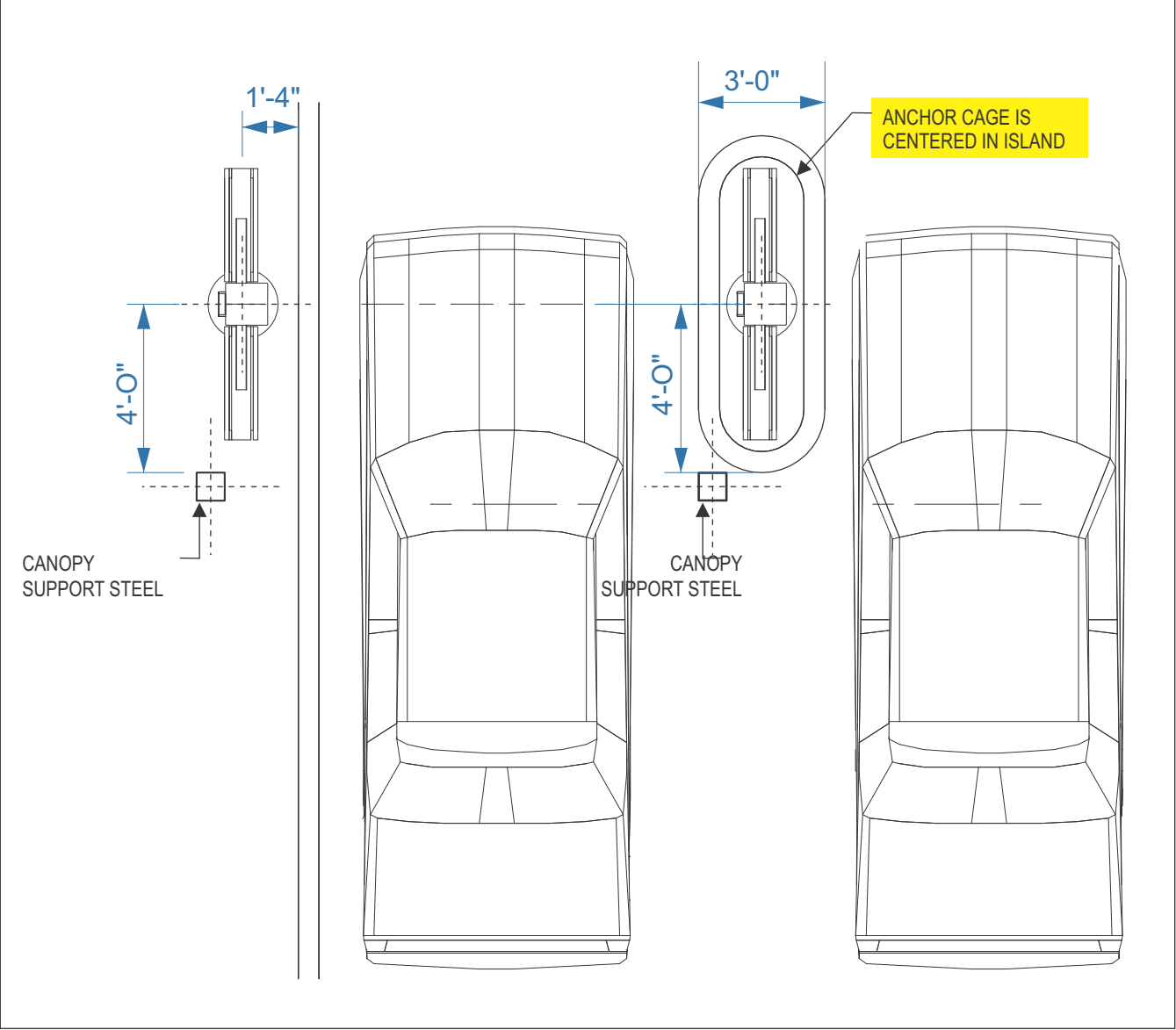
B1-2





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

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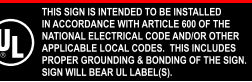
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**FINAL ELECTRICAL CONNECTION BY CUSTOMER**



B1-2







SULLAWAY

ENGINEERING

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)

V6.6

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^2/4= 1.413 in^3

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

Anchor Information:

Anchor type: Cast-in-place

Material: AB

Diameter (inch): 1.000

Effective Embedment depth, h<sub>ef</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 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

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)



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Lee's Summit, Missouri

06/13/2024

Design #

0637033Ar3

Sheet 9 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

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Landlord

Revision/Date

R1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE STOPDNE

R2(1/6/24)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

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B1-2



Company:		Date:	1/9/2024
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Address:			
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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

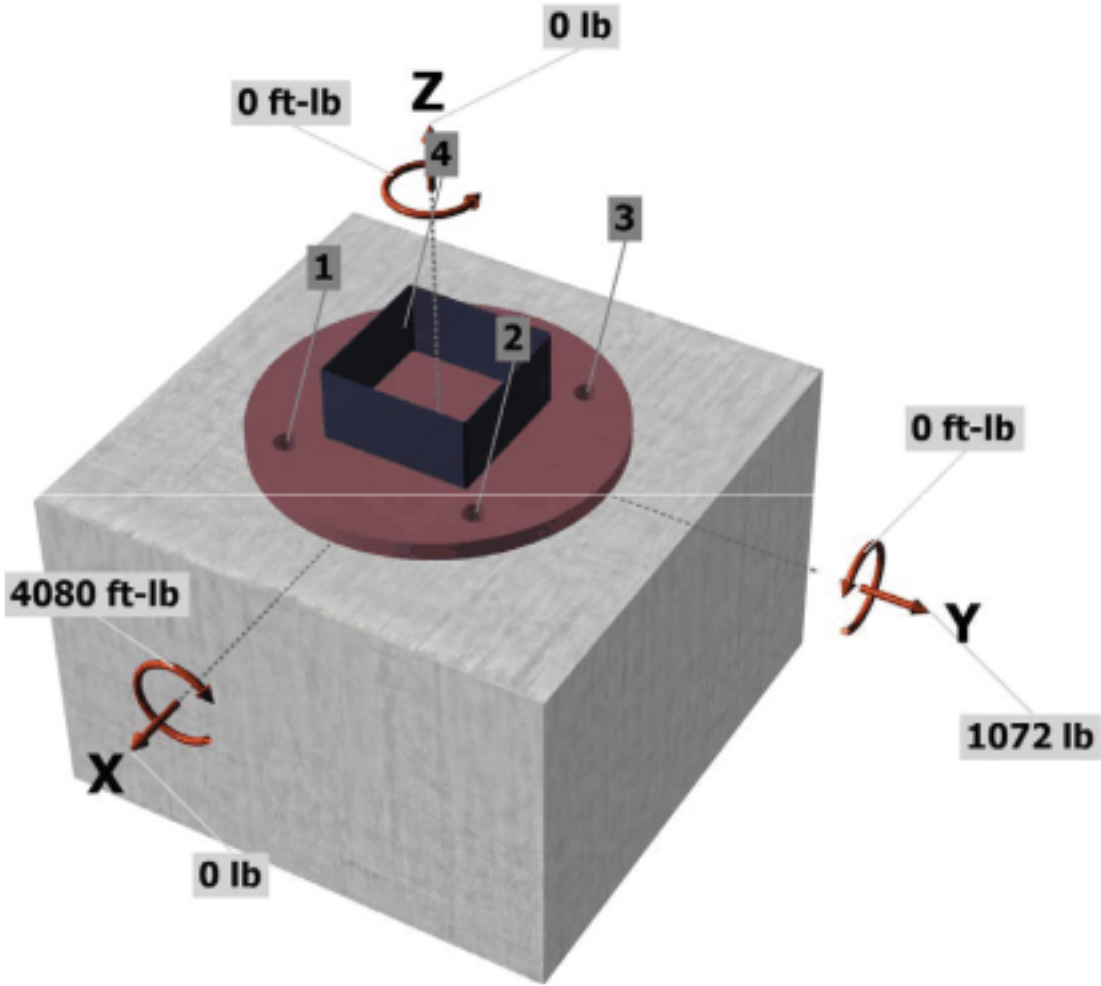
Apply entire shear load at front row: No

Anchors only resisting wind and/or seismic loads: No

Strength level loads:

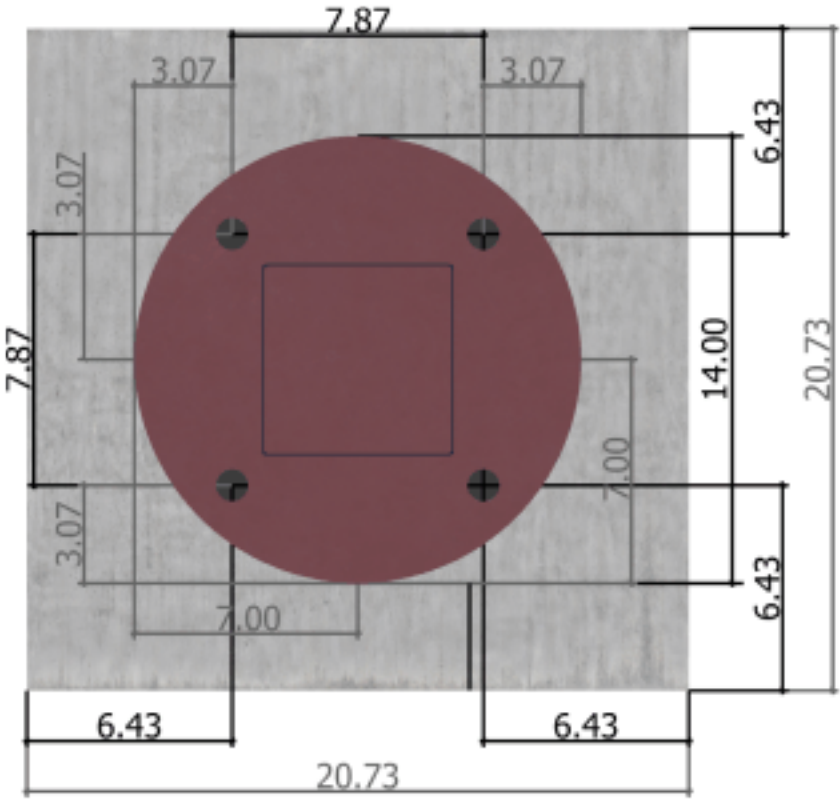
$N_{ux}$  [lb]: 0  
 $V_{ux}$  [lb]: 0  
 $V_{uy}$  [lb]: 1072  
 $M_{ux}$  [ft-lb]: -4080  
 $M_{uy}$  [ft-lb]: 0  
 $M_{uz}$  [ft-lb]: 0

<Figure 1>



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<Figure 2>



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B1-2





Company:		Date:	1/9/2024
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Address:			
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3. Resulting Anchor Forces

Anchor	Tension load, N <sub>ult</sub> (lb)	Shear load x, V <sub>uxx</sub> (lb)	Shear load y, V <sub>uyy</sub> (lb)	Shear load combined, √(V <sub>uxx</sub> ) <sup>2</sup> +(V <sub>uyy</sub> ) <sup>2</sup> (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>ss</sub> (lb)	φ	φN <sub>ss</sub> (lb)
35150	0.75	26363

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

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

λ <sub>a</sub>	f <sub>c</sub> (psi)	h <sub>ef</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>)∑ε<sub>ec,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>ac,N</sub> (in)	∑ε <sub>ec,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)
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>p</sub> = φγ<sub>c,p</sub>8A<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> (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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7. Side-Face Blowout Strength of Anchor in Tension (Sec. 17.6.4)

φN<sub>sb</sub> = φ[(1+C<sub>as</sub>/C<sub>ar</sub>)/4](1+s/ℓC<sub>ar</sub>)N<sub>sb</sub> = φ[(1+C<sub>as</sub>/C<sub>ar</sub>)/4](1+s/ℓC<sub>ar</sub>)(160C<sub>ar</sub>hA<sub>brg</sub>)λ<sup>2</sup>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>as</sub> (in)	A <sub>brg</sub> (in <sup>2</sup> )	λ <sub>a</sub>	f <sub>c</sub> (psi)	φ	φN <sub>sb</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>se</sub> (lb)	φ <sub>grout</sub>	φ	φ <sub>grout</sub> φV <sub>se</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>s</sub>)<sup>3/2</sup>λ<sub>a</sub>ac<sup>2</sup>f<sub>c</sub>C<sub>ar</sub><sup>1.5</sup>; 9λ<sub>a</sub>ac<sup>2</sup>f<sub>c</sub>C<sub>ar</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>ar</sub> (in)	V <sub>by</sub> (lb)
8.00	1.000	1.00	2500	14.30	24334

φV<sub>cbgy</sub> = φ(A<sub>vc</sub>/A<sub>vo</sub>)∑ε<sub>ec,V</sub>∑ε<sub>ed,V</sub>∑ε<sub>cn,V</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>ec,V</sub>	∑ε <sub>ed,V</sub>	∑ε <sub>cn,V</sub>	∑ε <sub>cp,V</sub>	V <sub>by</sub> (lb)	φ	φV <sub>cbgy</sub> (lb)
444.66	920.21	1.000	0.790	1.000	1.000	24334	0.70	6502

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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>ac<sup>2</sup>f<sub>c</sub>C<sub>ar</sub><sup>1.5</sup>; 9λ<sub>a</sub>ac<sup>2</sup>f<sub>c</sub>C<sub>ar</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>ar</sub> (in)	V <sub>bx</sub> (lb)
8.00	1.000	1.00	2500	6.43	7337

φV<sub>cbgx</sub> = φ(2)(A<sub>vc</sub>/A<sub>vo</sub>)∑ε<sub>ec,V</sub>∑ε<sub>ed,V</sub>∑ε<sub>cn,V</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>ec,V</sub>	∑ε <sub>ed,V</sub>	∑ε <sub>cn,V</sub>	∑ε <sub>cp,V</sub>	V <sub>bx</sub> (lb)	φ	φV <sub>cbgx</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>cp</sub> = φk<sub>cp</sub>N<sub>cbg</sub> = φk<sub>cp</sub>(A<sub>no</sub>/A<sub>no</sub>)∑ε<sub>ec,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. 17.7.3.1b)

k <sub>cp</sub>	A <sub>nc</sub> (in <sup>2</sup> )	A <sub>no</sub> (in <sup>2</sup> )	∑ε <sub>ec,N</sub>	∑ε <sub>ed,N</sub>	∑ε <sub>cn</sub>	∑ε <sub>cp,N</sub>	N <sub>b</sub> (lb)	φ	φV <sub>cp</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>ult</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>ult</sub> (lb)	Design Strength, φV <sub>n</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)

Design #

0637033Ar3

Sheet 11 of 27

Client

#2859

Address

690 NW Blue Pkwy,  
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Account Rep.

KRISTEN HAMILTON  
TERRI BROWN

Designer

LEAH LANSFORD

Date

9/29/23

Approval / Date

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**B1-2**



Anchor Designer™  
Software  
Version 3.2.2309.2

Company:

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Pryout	1072	32921	0.03	Pass	
Interaction check	$N_{uax}/N_n$	$V_{uax}/V_n$	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.

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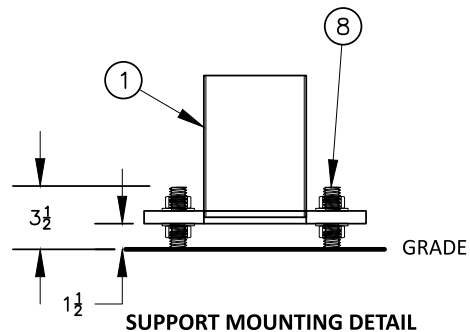
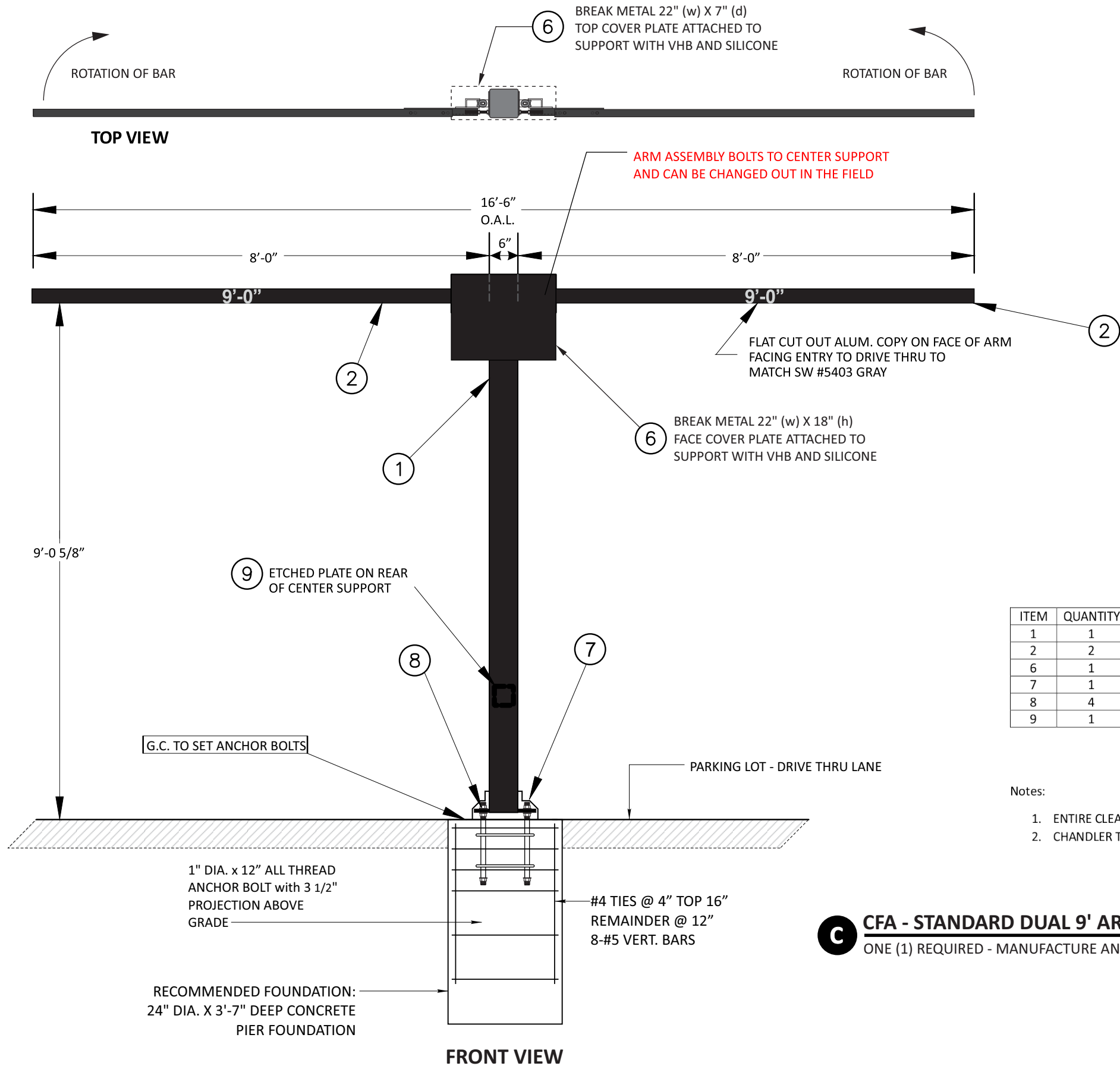
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B1-2





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:

- ENTIRE CLEARANCE BAR AND HARDWARE TO BE POWDER-COATED P-820 MATTE BLACK FINISH
- 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

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Louisville, KY 40206  
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Georgia 111 Woodstone Place  
Dawsonville, GA 30534  
(678) 725-8852 Fax (210) 349-8724

South Texas PO BOX 125 206 Doral Drive  
Portland, TX 78374  
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FINAL ELECTRICAL  
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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







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

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

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

$n = 2$        $\text{arm} = 1.650 \text{ in}$        $b = 12.30 \text{ in}$        $t = 0.75 \text{ in}$        $T = 1.432$   
 $M_{\text{plate}} = T \text{ per bolt} * n * \text{arm} = 4.726 \text{ k-in}$       ( $T = \text{From Simpson's}$ )  
 $Z = bt^3/4 = 1.730 \text{ in}^3$   
 $\phi M_n = \phi * F_y * Z = 0.9 * 36 \text{ ksi} * Z = 56.04 \text{ k-in}$       **OK**

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

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

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

		Mu =	4.453	k-in (See Page#3)		
Yielding: (Governs)					d	t
(ADM 15, F.2)		Mn = Z Fcy =	23.1	k-in	2	0.125
		Mn = 1.5 St Fty =	29.0	k-in	welded?	NO
					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
					b/t =	14.0
since b/t < 91: Fc = Fcy =			35.00		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 If / ccf + Fb lw / ccw =			49.57	k-in		
		PMnlb =	44.61	k-in OK		

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

1



( )



SULLAWAY

ENGINEERING

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)

Tr =

6.99 k-in (See Page#3)

Fy =

46 ksi

h/t =

48.7

t =

0.116 in<sup>3</sup>

2.45 (E/Fy)<sup>1/2</sup> =

61.52

E =

29000 ksi

3.07 (E/Fy)<sup>1/2</sup> =

77.08

L =

in

Fcr =

27.6 ksi

(eq'n. H3-3)

φ =

0.9

Tc=φTn = φ Fcr C =

199.5 k-in

OK

Mr/Mc + (Tr/Tc)<sup>2</sup> =

0.15 <1

OK

(eq'n. H3-6)

(See Page #2 for Mr & Mc)

Anchor Designer™  
Software  
Version 3.2.2309.2

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

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 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 8do requirement: No  
Build-up grout pad: No

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)

Page 6 of 11

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

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06/13/2024

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

Design #  
0637033Ar3

Sheet 16 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  
R1(12/22/23)LL: CHANGED SIZE OF PANELS ON THE  
STORPDNE  
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

CHANDLER  
SIGNS

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Chick-fil-A

C

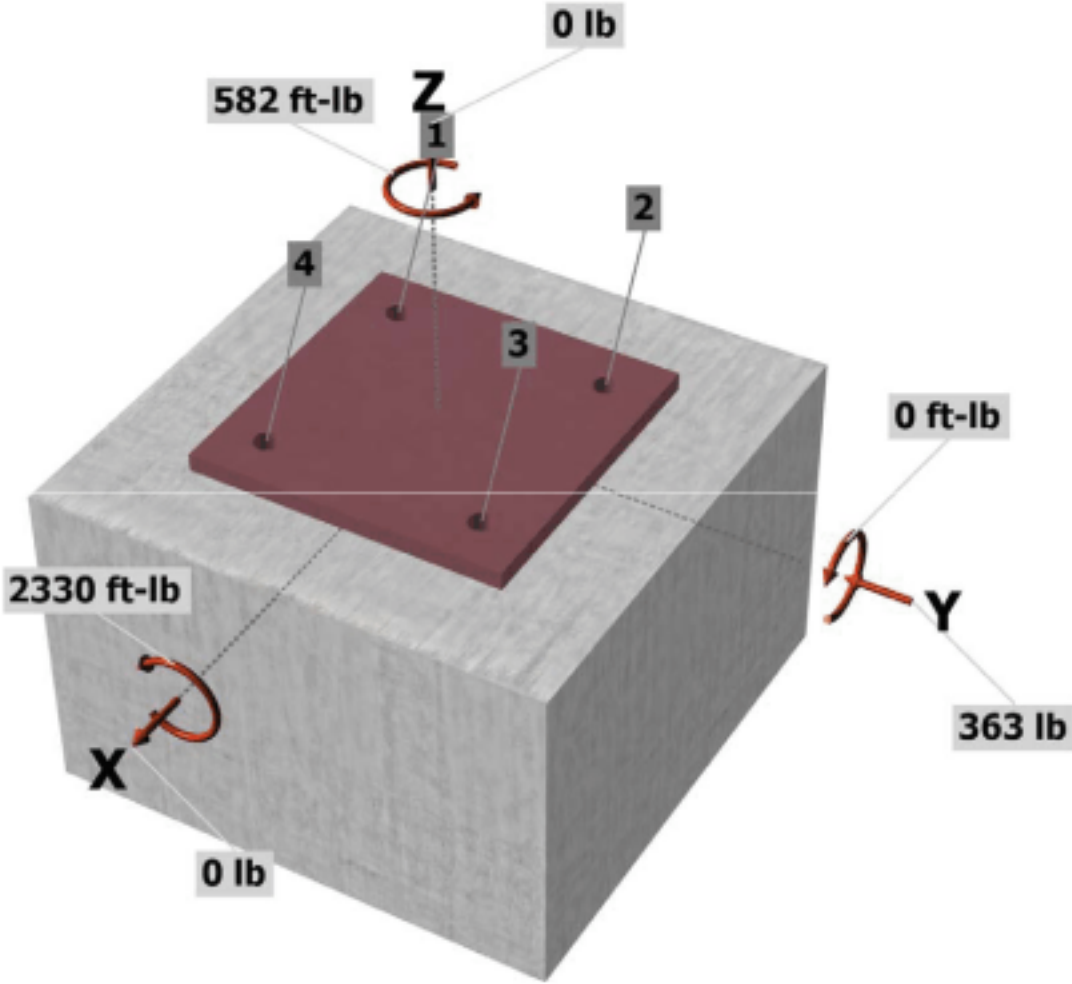


**Load and Geometry**  
Load factor source: ACI 318 Section 5.3  
Load combination: not set  
Seismic design: No  
Anchors subjected to sustained tension: Not applicable  
Apply entire shear load at front row: No  
Anchors only resisting wind and/or seismic loads: No

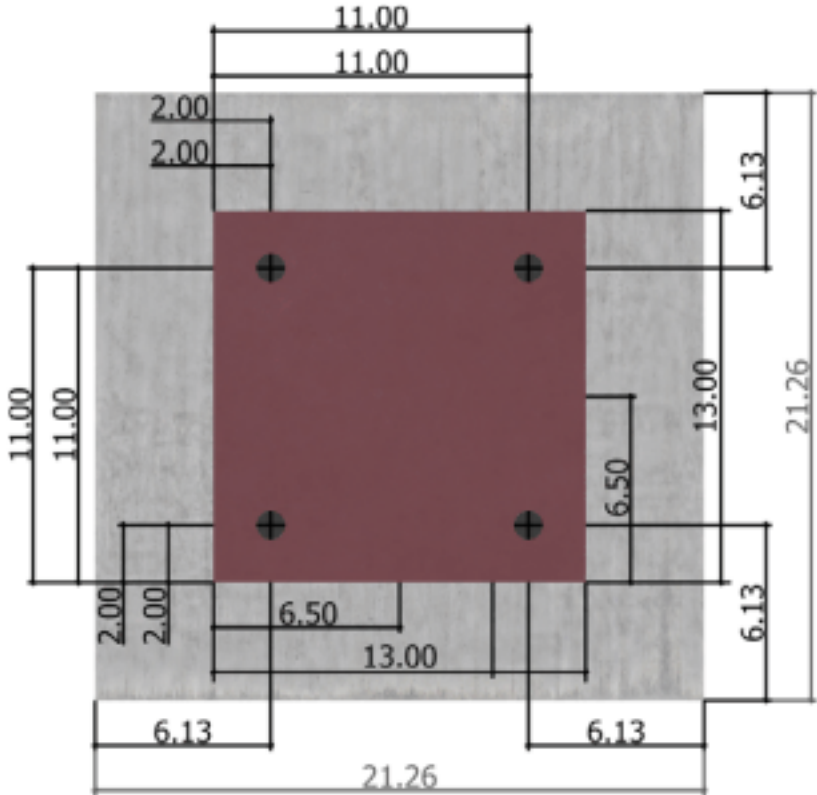
Strength level loads:

N<sub>ux</sub> [lb]: 0  
V<sub>uxx</sub> [lb]: 0  
V<sub>uxy</sub> [lb]: -363  
M<sub>ux</sub> [ft-lb]: 2330  
M<sub>uy</sub> [ft-lb]: 0  
M<sub>uz</sub> [ft-lb]: 582

<Figure 1>



<Figure 2>



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Lee's Summit, Missouri

06/13/2024

Design #  
0637033Ar3

Sheet 17 of 27

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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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C





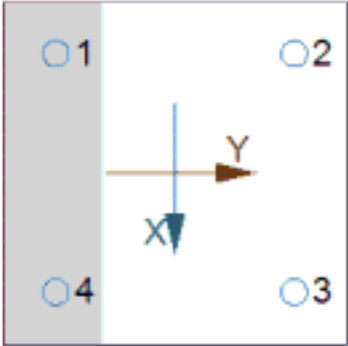
Company:		Date:	1/9/2024
Engineer:		Page:	4/6
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Address:			
Phone:			
E-mail:			

3. Resulting Anchor Forces

Anchor	Tension load, N <sub>ux</sub> (lb)	Shear load x, V <sub>uxx</sub> (lb)	Shear load y, V <sub>uxy</sub> (lb)	Shear load combined, √(V <sub>uxx</sub> ) <sup>2</sup> +(V <sub>uxy</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>ux</sub> (inch): 0.00  
Eccentricity of resultant tension forces in y-axis, e'<sub>uy</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>ux</sub> (lb)	φ	φN <sub>ux</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>ef</sub><sup>2.0</sup> (Eq. 17.6.2.2.1)

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

φN<sub>cbg</sub> = φ(A<sub>Nc</sub> / A<sub>Nco</sub>)ζ<sub>ec,N</sub>ζ<sub>ed,N</sub>ζ<sub>c,N</sub>ζ<sub>q,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>Nco</sub> (in <sup>2</sup> )	c <sub>a,min</sub> (in)	ζ <sub>ec,N</sub>	ζ <sub>ed,N</sub>	ζ <sub>c,N</sub>	ζ <sub>q,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> = φγ<sub>c,p</sub>N<sub>p</sub> = φγ<sub>c,p</sub>8A<sub>dg</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>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



Company:		Date:	1/9/2024
Engineer:		Page:	5/6
Project:			
Address:			
Phone:			
E-mail:			

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

V <sub>ux</sub> (lb)	φ <sub>grout</sub>	φ	φ <sub>grout</sub> φV <sub>ux</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>a</sub>)<sup>3.2</sup>λ<sub>a</sub>f<sub>c</sub>G<sub>cr</sub><sup>1.5</sup>; 9λ<sub>a</sub>f<sub>c</sub>G<sub>cr</sub><sup>1.5</sup>] (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)	G <sub>cr</sub> (in)	V <sub>bx</sub> (lb)
8.00	1.000	1.00	2500	15.13	26483

φV<sub>cbgx</sub> = φ(A<sub>Nc</sub> / A<sub>Nco</sub>)ζ<sub>ec,V</sub>ζ<sub>ed,V</sub>ζ<sub>c,V</sub>ζ<sub>h,V</sub>V<sub>bx</sub> (Sec. 17.5.1.2 & Eq. 17.7.2.1b)

A <sub>Nc</sub> (in <sup>2</sup> )	A <sub>Nco</sub> (in <sup>2</sup> )	ζ <sub>ec,V</sub>	ζ <sub>ed,V</sub>	ζ <sub>c,V</sub>	ζ <sub>h,V</sub>	V <sub>bx</sub> (lb)	φ	φV <sub>cbgx</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>a</sub>)<sup>3.2</sup>λ<sub>a</sub>f<sub>c</sub>G<sub>cr</sub><sup>1.5</sup>; 9λ<sub>a</sub>f<sub>c</sub>G<sub>cr</sub><sup>1.5</sup>] (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)	G <sub>cr</sub> (in)	V <sub>by</sub> (lb)
8.00	1.000	1.00	2500	15.13	26483

φV<sub>cbgy</sub> = φ(A<sub>Nc</sub> / A<sub>Nco</sub>)ζ<sub>ec,V</sub>ζ<sub>ed,V</sub>ζ<sub>c,V</sub>ζ<sub>h,V</sub>V<sub>by</sub> (Sec. 17.5.1.2 & Eq. 17.7.2.1b)

A <sub>Nc</sub> (in <sup>2</sup> )	A <sub>Nco</sub> (in <sup>2</sup> )	ζ <sub>ec,V</sub>	ζ <sub>ed,V</sub>	ζ <sub>c,V</sub>	ζ <sub>h,V</sub>	V <sub>by</sub> (lb)	φ	φV <sub>cbgy</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>a</sub>)<sup>3.2</sup>λ<sub>a</sub>f<sub>c</sub>G<sub>cr</sub><sup>1.5</sup>; 9λ<sub>a</sub>f<sub>c</sub>G<sub>cr</sub><sup>1.5</sup>] (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)	G <sub>cr</sub> (in)	V <sub>bx</sub> (lb)
8.00	1.000	1.00	2500	6.13	6830

φV<sub>cbgx</sub> = φ(2)(A<sub>Nc</sub> / A<sub>Nco</sub>)ζ<sub>ec,V</sub>ζ<sub>ed,V</sub>ζ<sub>c,V</sub>ζ<sub>h,V</sub>V<sub>bx</sub> (Sec. 17.5.1.2, 17.7.2.1(c) & Eq. 17.7.2.1b)

A <sub>Nc</sub> (in <sup>2</sup> )	A <sub>Nco</sub> (in <sup>2</sup> )	ζ <sub>ec,V</sub>	ζ <sub>ed,V</sub>	ζ <sub>c,V</sub>	ζ <sub>h,V</sub>	V <sub>bx</sub> (lb)	φ	φV <sub>cbgx</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>a</sub>)<sup>3.2</sup>λ<sub>a</sub>f<sub>c</sub>G<sub>cr</sub><sup>1.5</sup>; 9λ<sub>a</sub>f<sub>c</sub>G<sub>cr</sub><sup>1.5</sup>] (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)	G <sub>cr</sub> (in)	V <sub>by</sub> (lb)
8.00	1.000	1.00	2500	6.13	6830

φV<sub>cbgy</sub> = φ(2)(A<sub>Nc</sub> / A<sub>Nco</sub>)ζ<sub>ec,V</sub>ζ<sub>ed,V</sub>ζ<sub>c,V</sub>ζ<sub>h,V</sub>V<sub>by</sub> (Sec. 17.5.1.2, 17.7.2.1(c) & Eq. 17.7.2.1b)

A <sub>Nc</sub> (in <sup>2</sup> )	A <sub>Nco</sub> (in <sup>2</sup> )	ζ <sub>ec,V</sub>	ζ <sub>ed,V</sub>	ζ <sub>c,V</sub>	ζ <sub>h,V</sub>	V <sub>by</sub> (lb)	φ	φV <sub>cbgy</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>co</sub> = φk<sub>cp</sub>(A<sub>Nc</sub> / A<sub>Nco</sub>)ζ<sub>ed,N</sub>ζ<sub>c,N</sub>ζ<sub>q,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>Nco</sub> (in <sup>2</sup> )	ζ <sub>ed,N</sub>	ζ <sub>c,N</sub>	ζ <sub>q,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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Design #

0637033Ar3

Sheet 18 of 27

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FINAL ELECTRICAL  
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CUSTOMER

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PROPER GROUNDING & BONDING OF THE SIGN.  
SIGN WILL BEAR UL LABEL(S).

UL

Chick-fil-A

C



Anchor Designer™

Software

Version 3.2.2309.2

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

Tension	Factored Load, $N_{uB}$ (lb)	Design Strength, $\phi N_n$ (lb)	Ratio	Status	
Steel	1432	26363	0.05	Pass	
Concrete breakout	2864	10694	0.27	Pass (Governs)	
Pullout	1432	72156	0.02	Pass	
Shear	Factored Load, $V_{uB}$ (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	
Concrete breakout, combined	-	-	0.10	Pass (Governs)	
Pryout	345	5347	0.06	Pass	
Interaction check	$N_{uB}/\phi N_n$	$V_{uB}/\phi V_n$	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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As Noted on Plan Review

Development Services Department

Lee's Summit, Missouri

06/13/2024

Design #

0637033Ar3

Sheet 19 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

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Landlord

Revision/Date

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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

CHANDLER SIGNS

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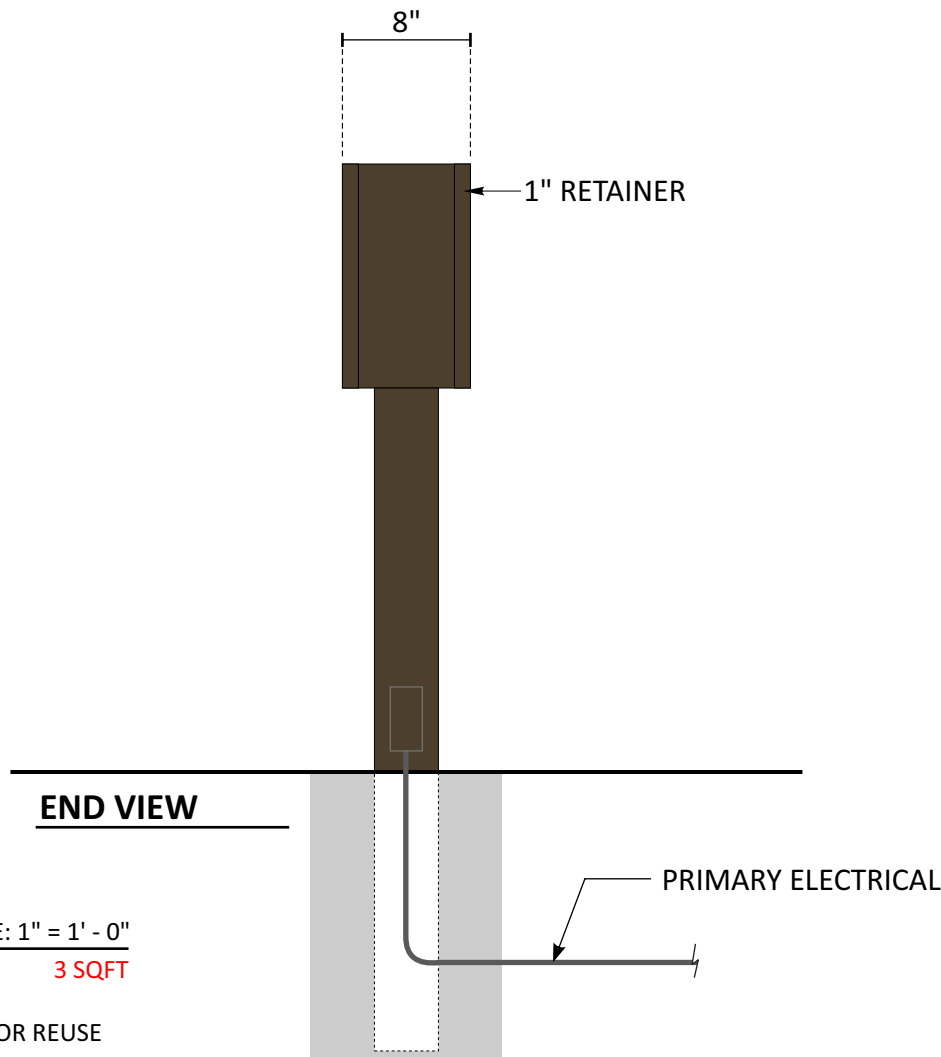
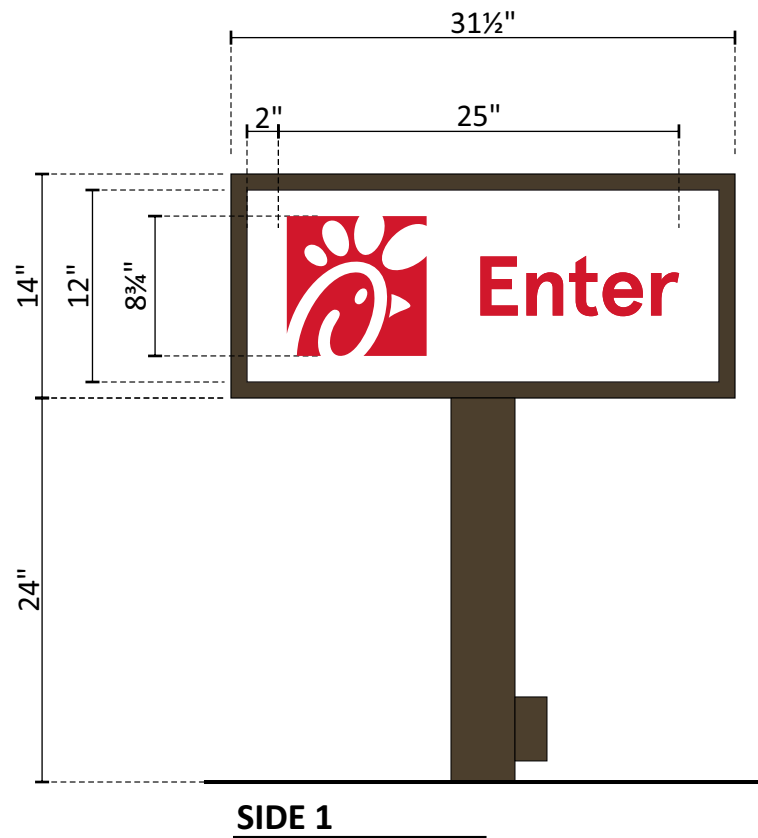
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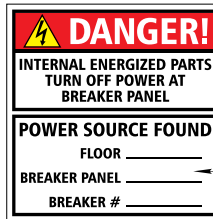
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C





2014/2017 NEC  
COMPLIANT LABEL



WARNING LABEL/  
BREAKER LOCATION



EXISTING CONDITIONS

**D CFA - D/F DIRECTIONAL** SCALE: 1" = 1' - 0" **3 SQFT**

ONE ( 1 ) REMOVAL REQUIRED - MANUFACTURE & INSTALL

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

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D

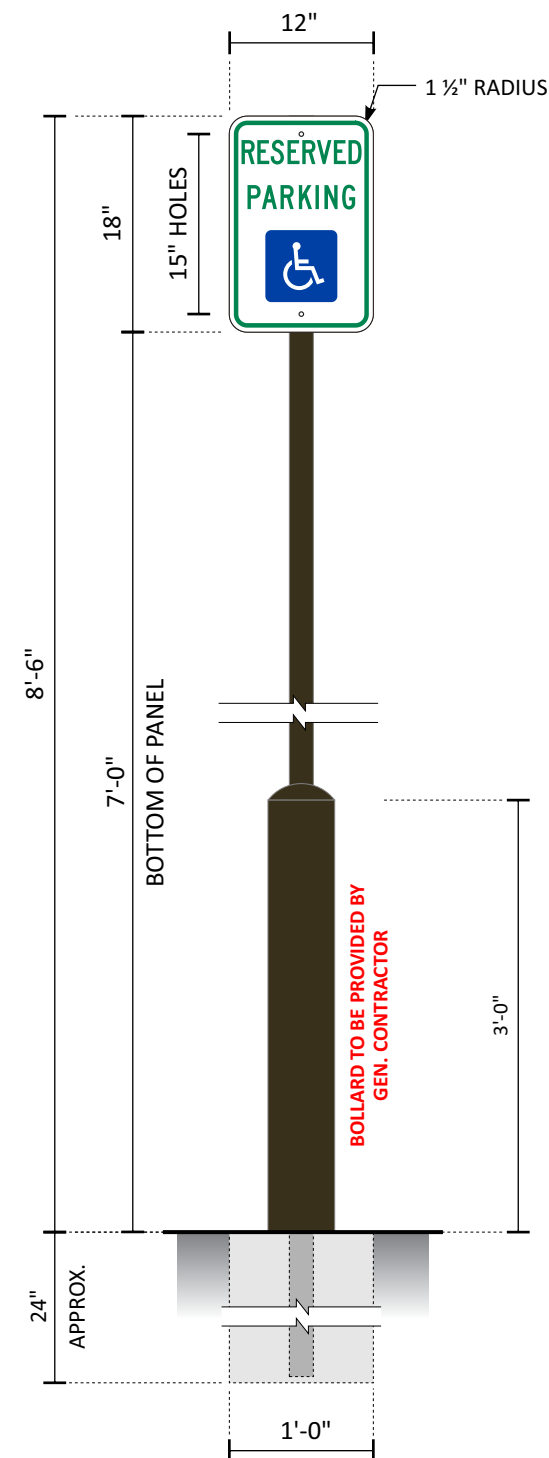
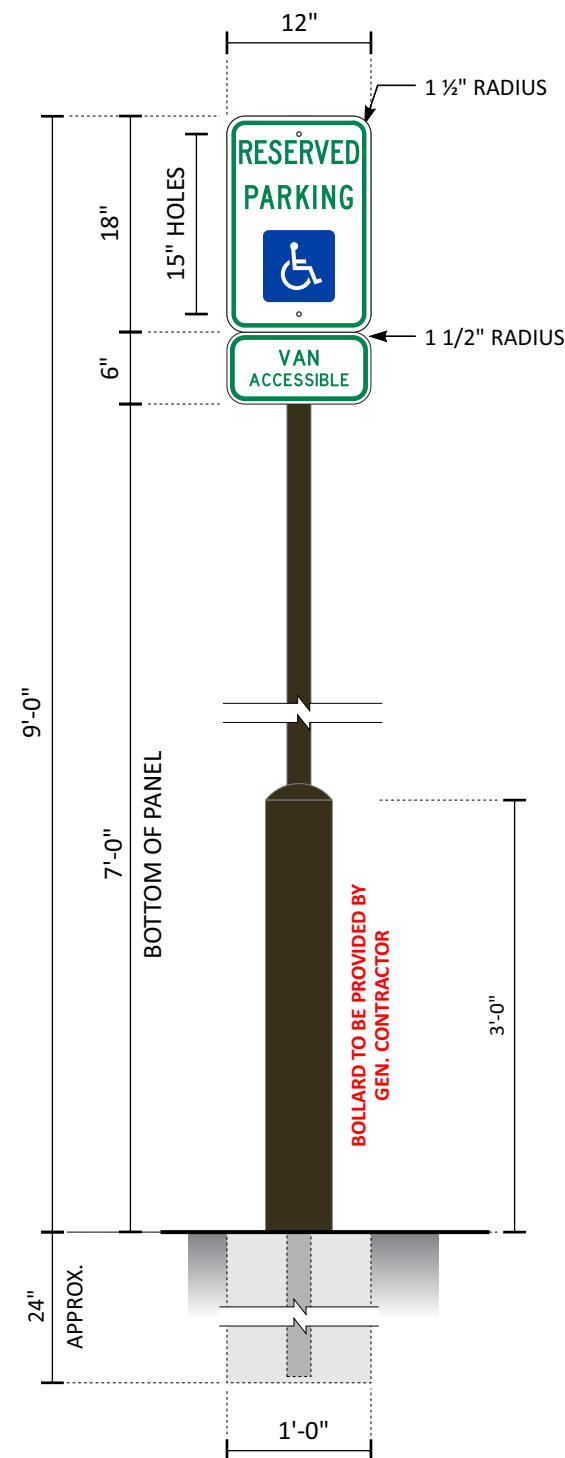
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Development Services Department  
Lee's Summit, Missouri

06/13/2024





## 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

**E1 E2 CFA - S/F HCVA SIGN**  
TWO ( 2 ) REQUIRED - MANUFACTURE AND INSTALL

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

---

2 SQ. FT.

2 SQ. FT.

**F CFA - S/F HC SIGN**  
ONE ( 1 ) REQUIRED - MANUFACTURE AND INSTALL

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

---

1.5 SQ. FT.




1.5 SQ. FT.

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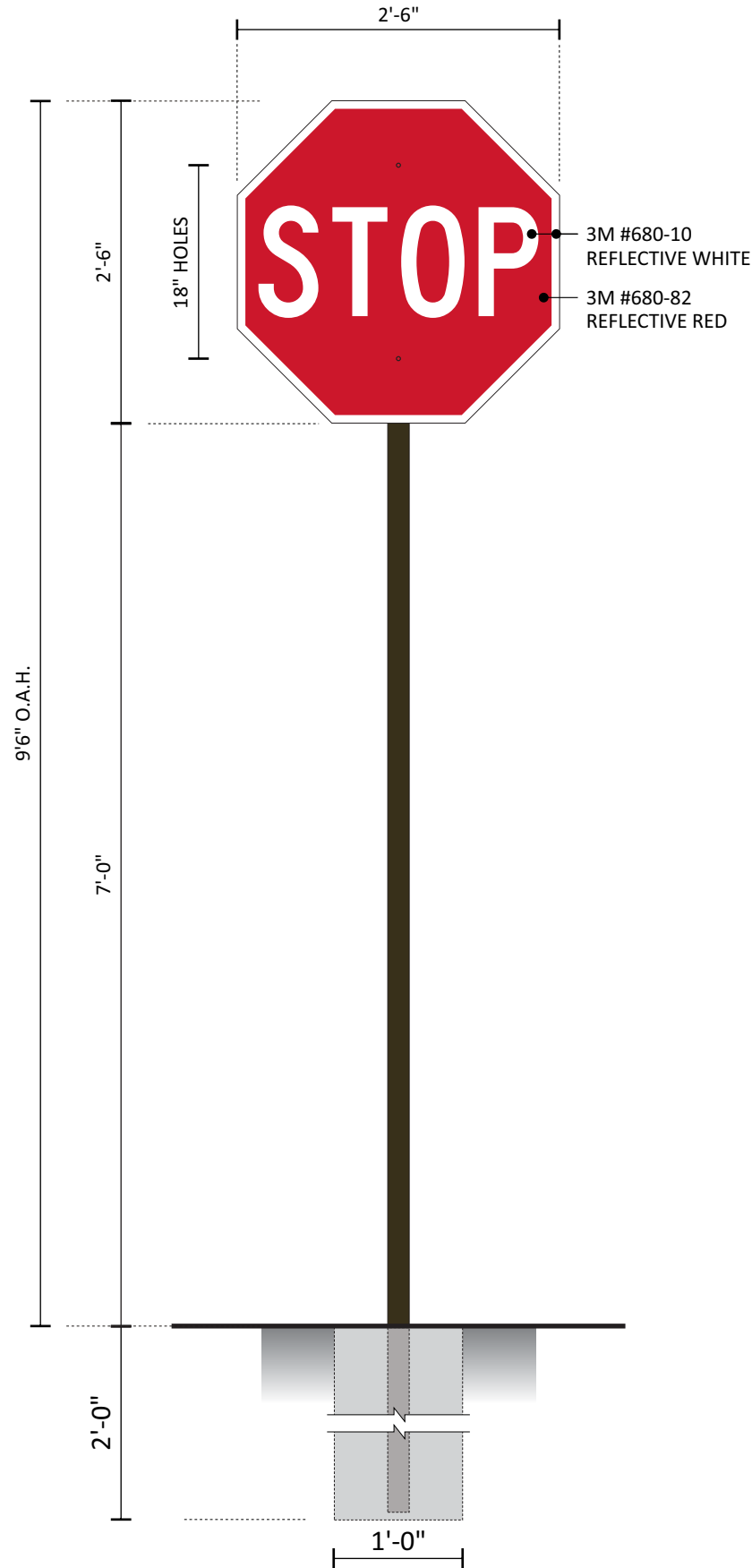
**Development Services Department**  
**Lee's Summit, Missouri**

**06/13/2024**

DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL

<b>Design #</b>	
<b>0637033Ar3</b>	
<b>Sheet</b>	<b>21 of 27</b>
<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>	
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<b>E1-2, F</b>	





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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TERRI BROWN

Designer

LEAH LANSFORD

Date

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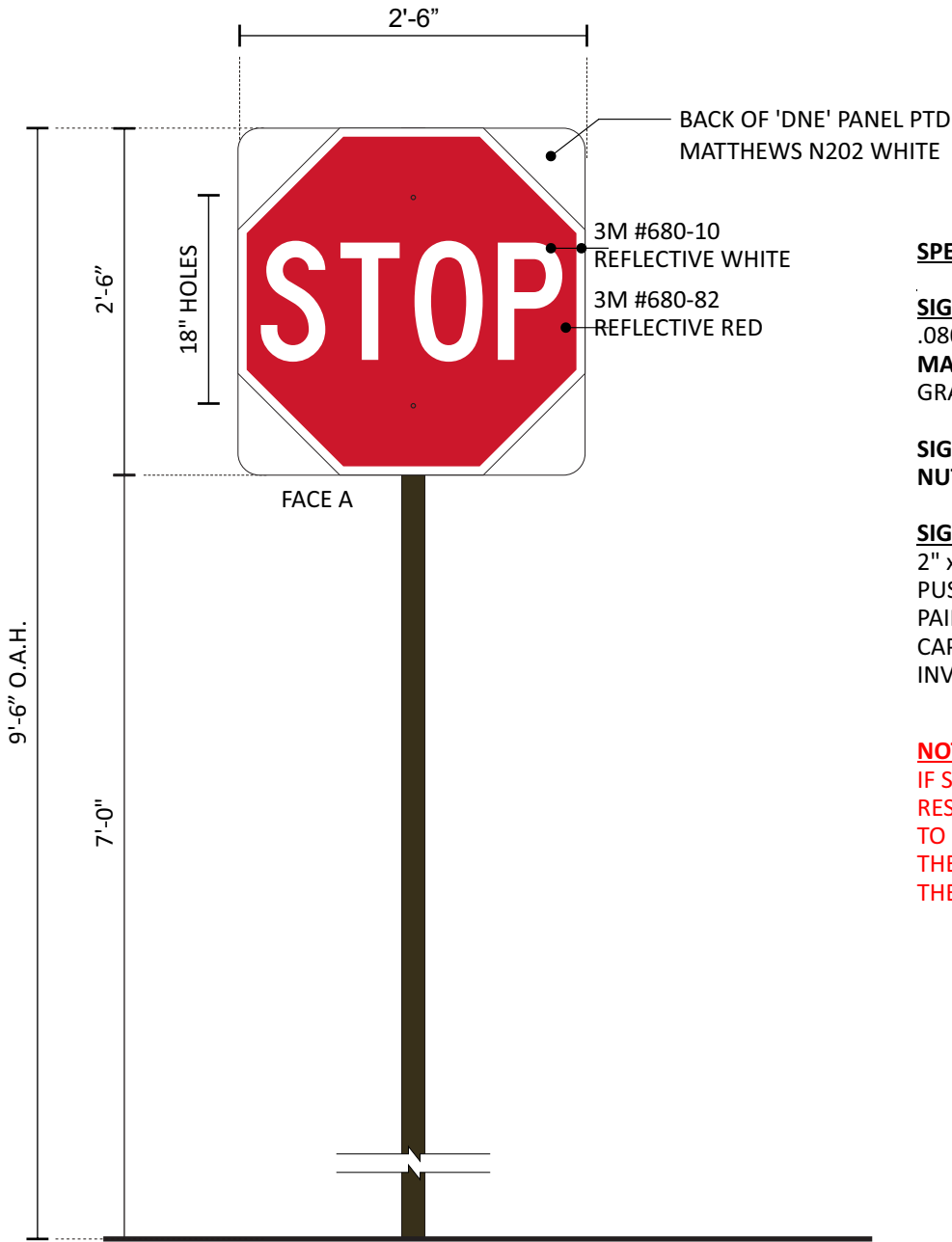
UL

Chick-fil-A

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

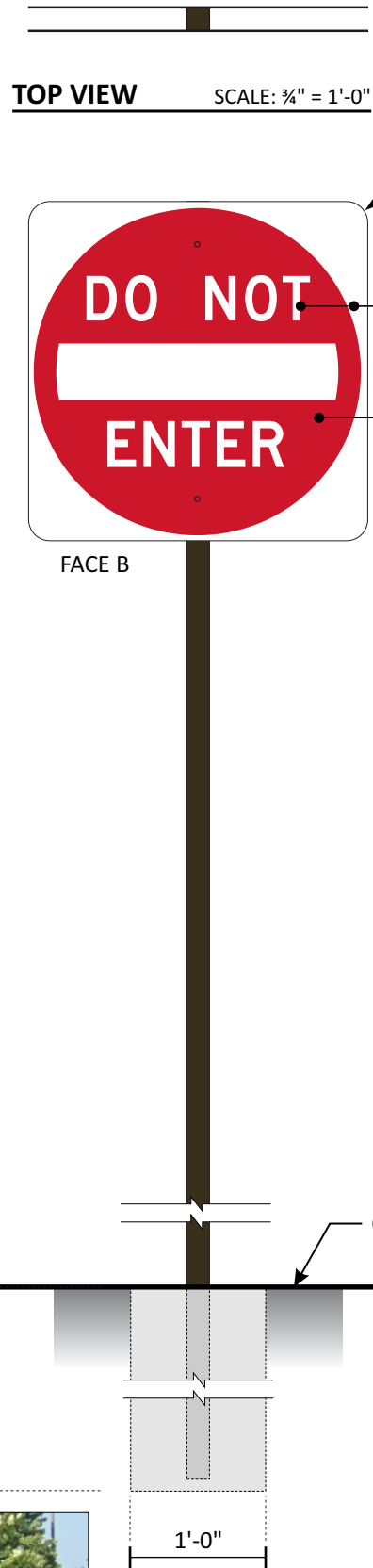
**SIGN POST**

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 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



**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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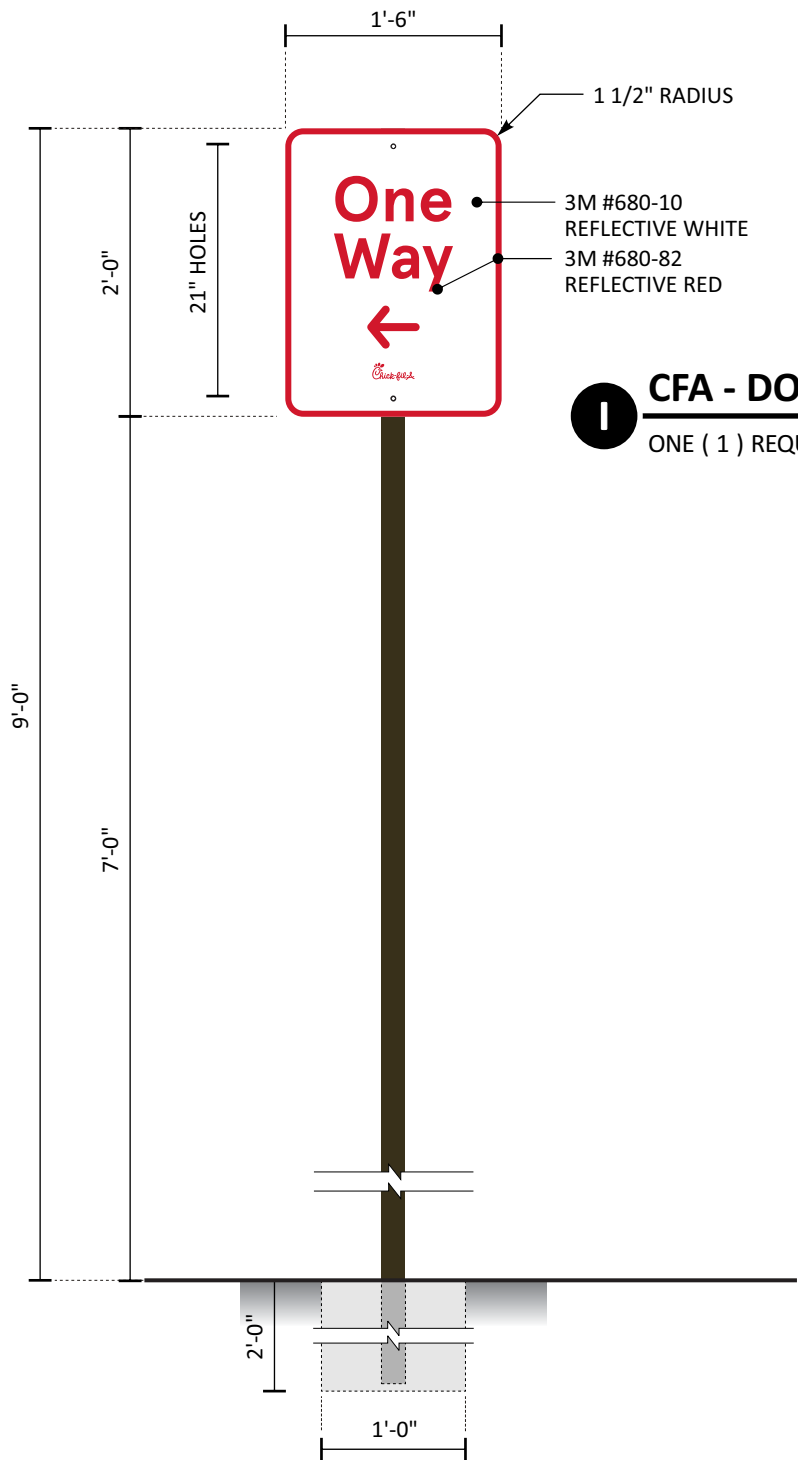
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**H1-4**



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**  
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DARK BRONZE, SATIN.  
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DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL

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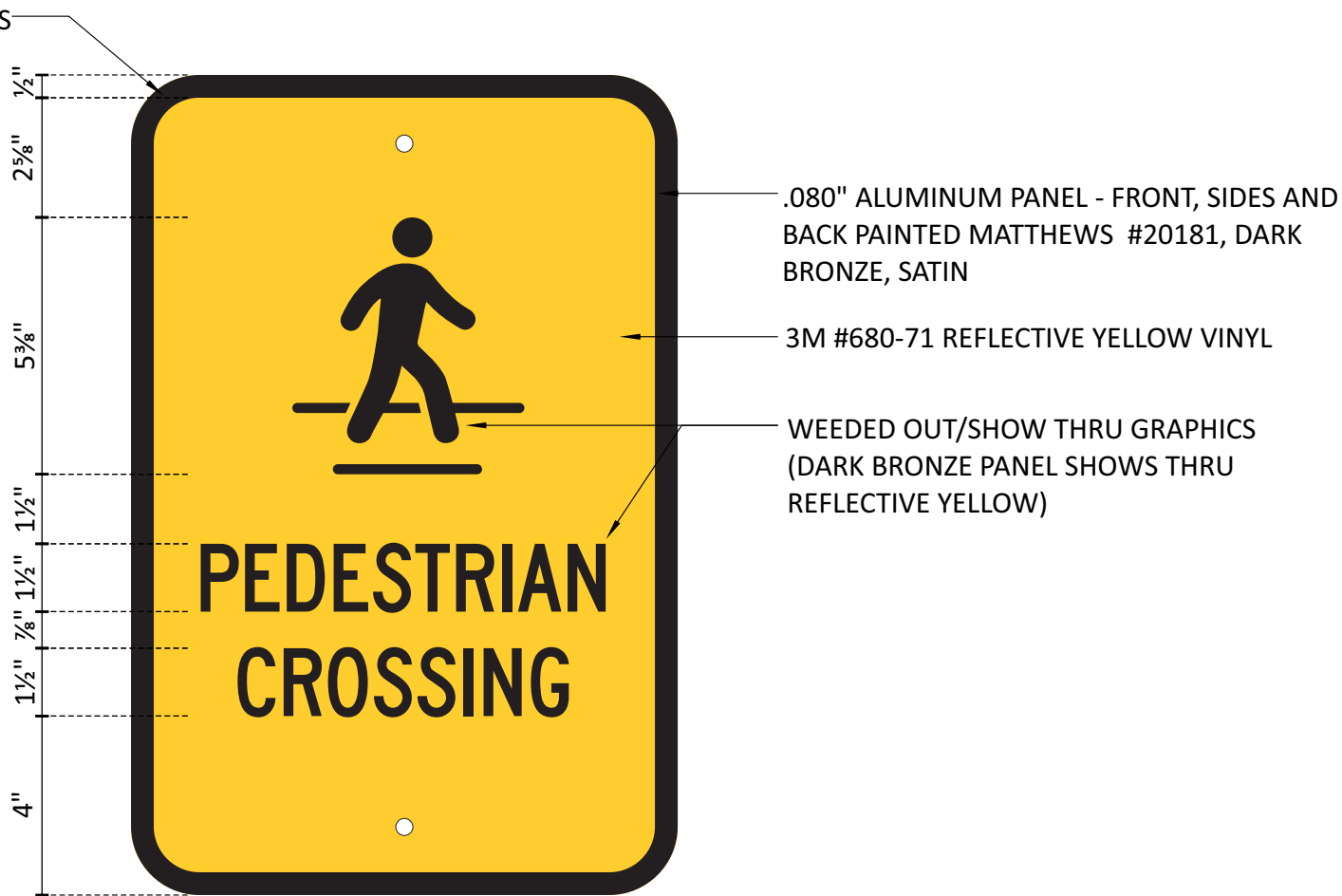
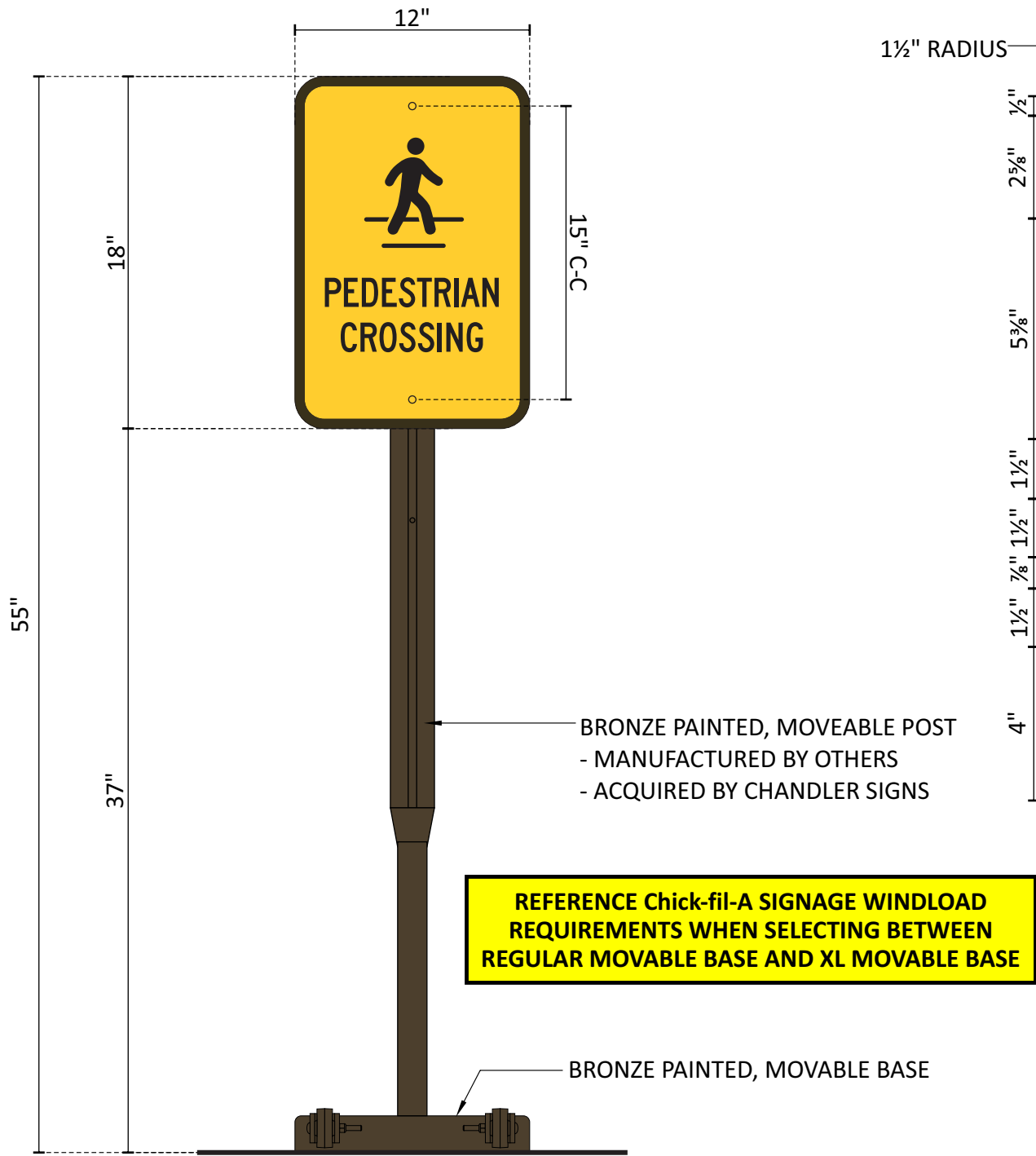
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PANEL DETAIL - PEDESTRIAN CROSSING  
SCALE: 3" = 1'-0"

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

DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL

Design #	
0637033Ar3	
Sheet	25 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	
R1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE STOPPINE	
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	

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 Louisville, KY 40206 (502) 897-9800 Cell (502) 554-2575
Georgia	111 Woodstone Place Dawsonville, GA 30534 (678) 725-8852 Fax (210) 349-8724
South Texas	PO BOX 125 206 Doral Drive Portland, TX 78374 (361) 563-5599 Fax (361) 563-6533
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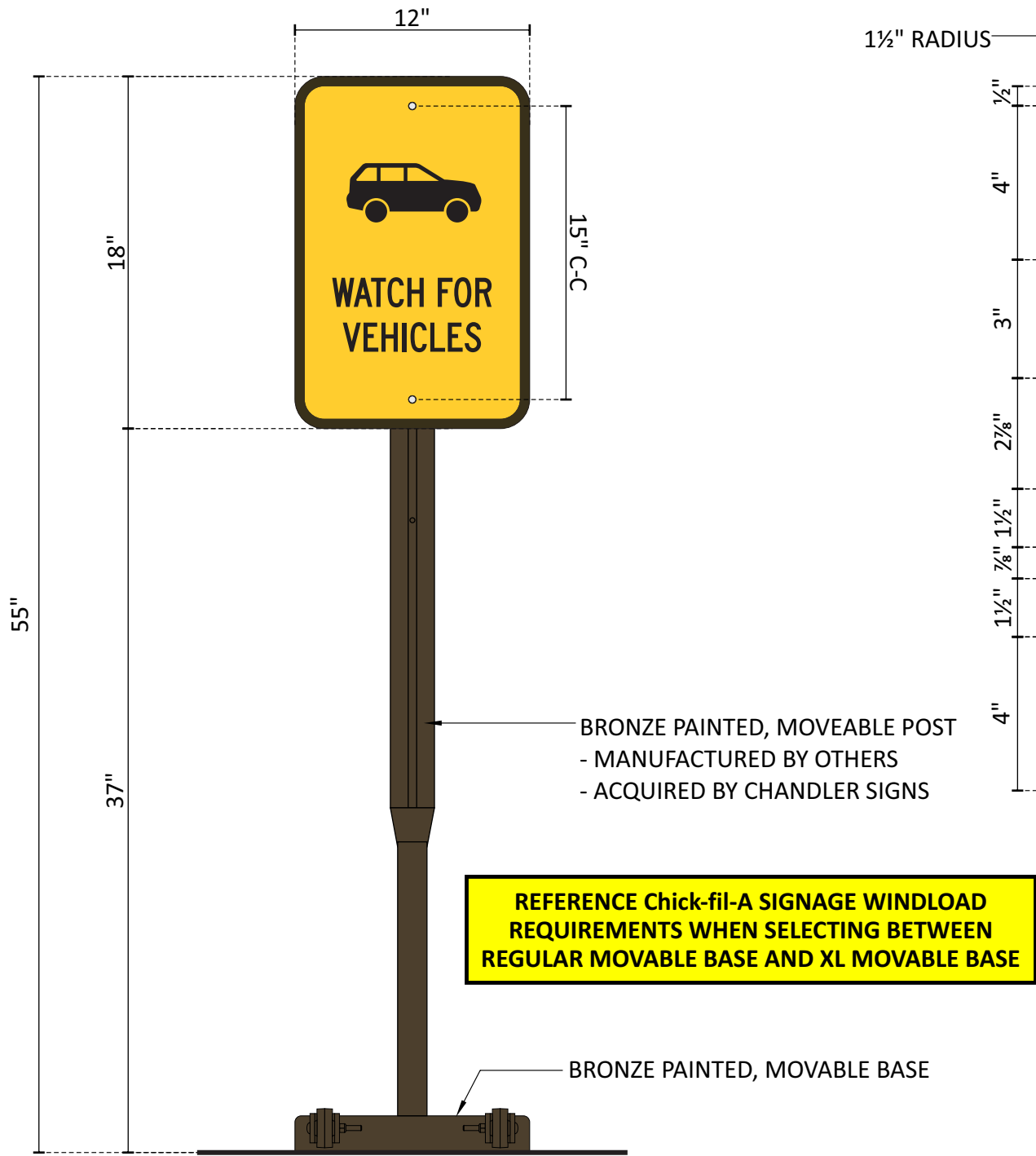
FINAL ELECTRICAL CONNECTION BY CUSTOMER

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).

Chick-fil-A

J





1½" RADIUS

½"

4"

3"

2⅞"

1½"

⅞"

1½"

4"



.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)

#### PANEL DETAIL - WATCH FOR VEHICLES

SCALE: 3" = 1'-0"

K

#### SAFETY SIGN - WATCH FOR VEHICLES

ONE ( 1 ) REQUIRED - MANUFACTURE & INSTALL

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

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DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL

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K

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Lee's Summit, Missouri

06/13/2024



L1

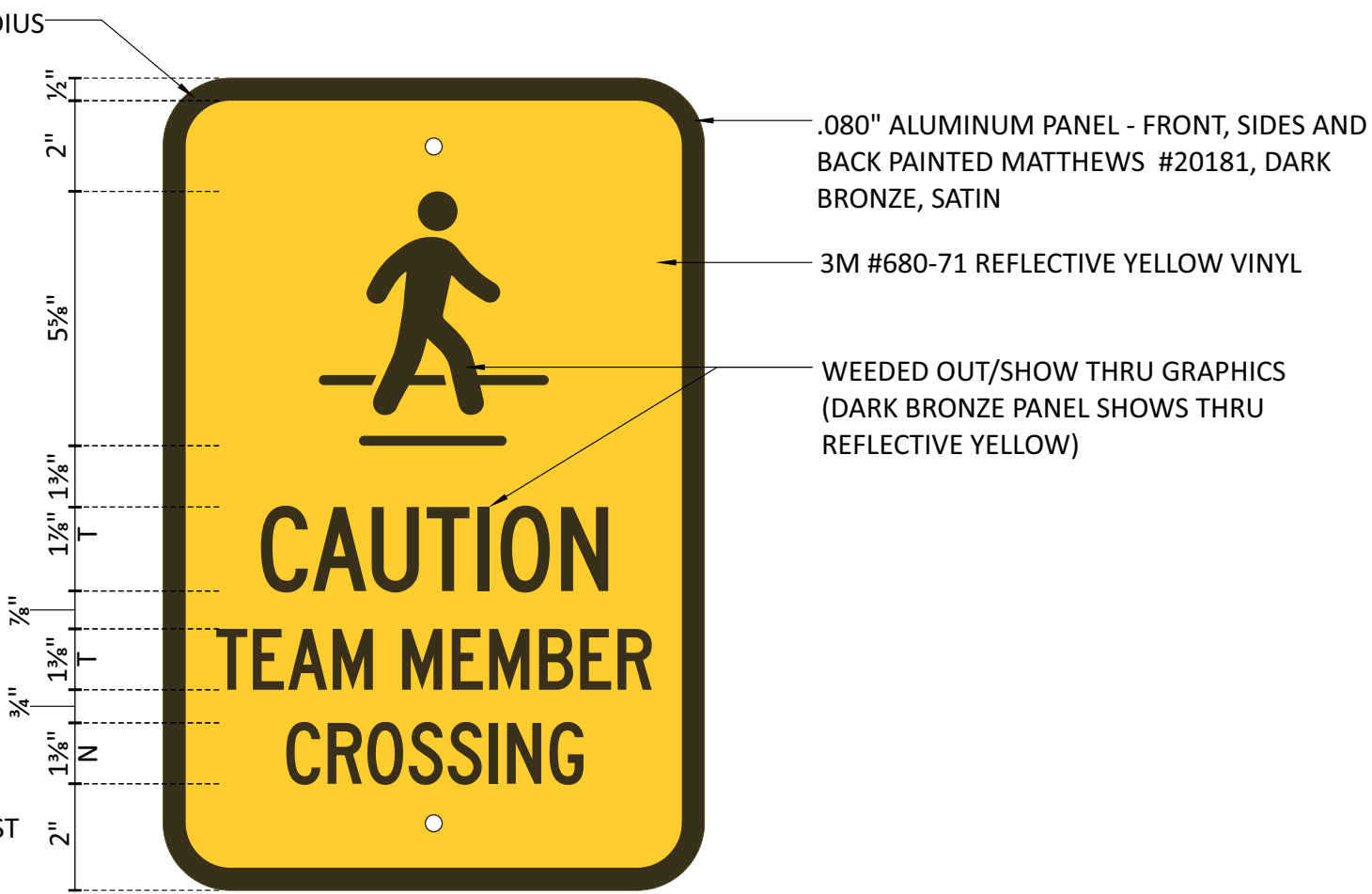
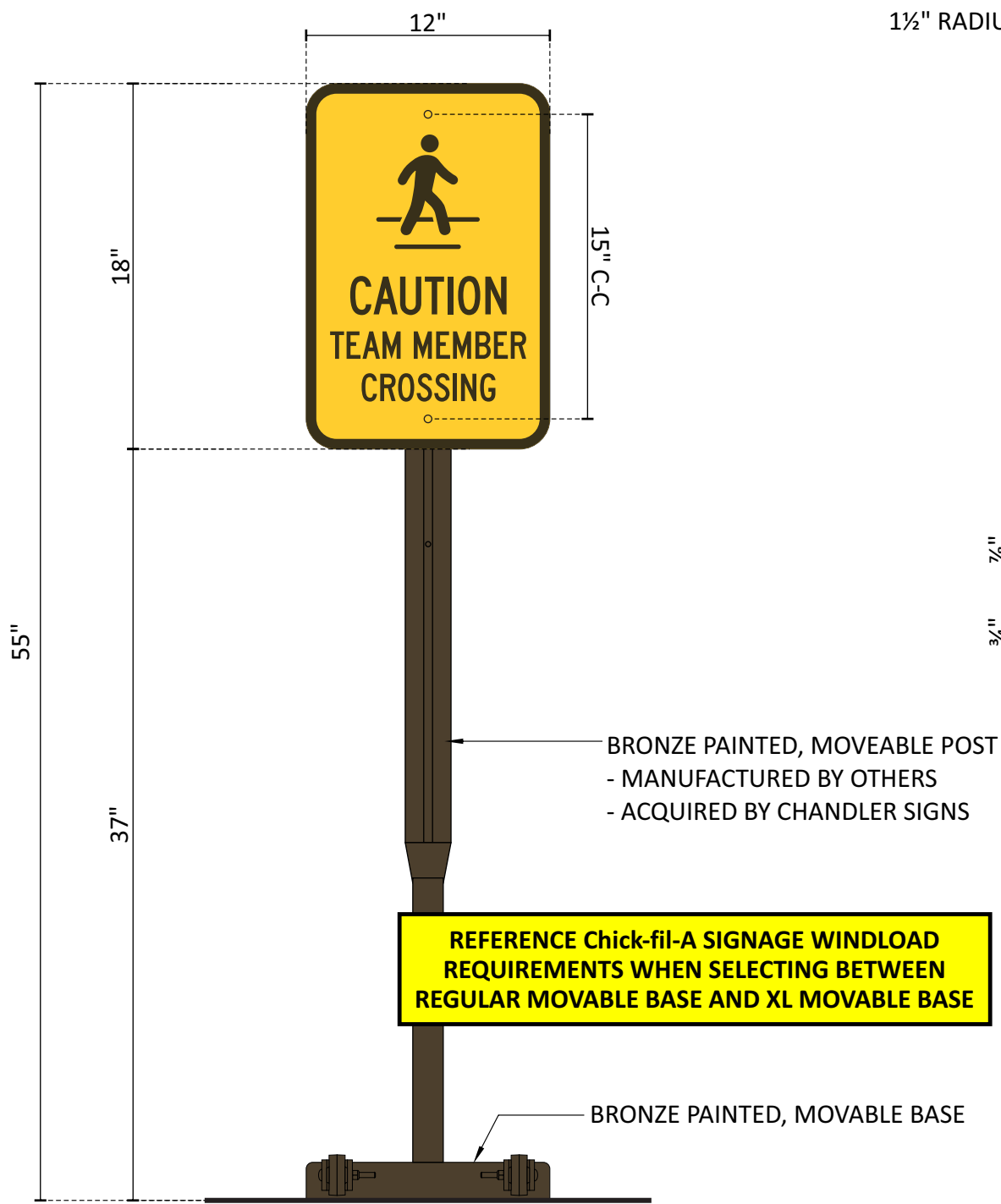
L2

SAFETY SIGN - TEAM MEMBER CROSSING

TWO ( 2 ) REQUIRED - MANUFACTURE & INSTALL

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

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

DFW MANUFACTURING / NEW VIS 2022 MUTCD PANEL

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Sheet 27 of 27

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CONNECTION BY  
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