ELEVATION = 1018.68

ELEVATION = 1018.19

ELEVATION = 1018.46

PK NAIL

PK NAIL

CITY OF LEE'S SUMMIT DEPARTMENT OF PLANNING CITY OF LEE'S SUMMIT DEPARTMENT OF PLANNING CITY OF LEE'S SUMMIT FIRE DEPARTMENT SANITARY SEWER/WATER SERVICE/STORM CITY OF LEE'S SUMMIT DEPARTMENT OF

UTILITY CONTACTS

& DEVELOPMENT

ROBERT G. MCKAY 816-969-1601

& DEVELOPMENT

FIRE DEPARTMENT

JIM EDEN 816-969-1303

220 SE GREEN STREET

CHRISTINA ALEXANDER 816-969-1607

220 SE GREEN STREET

jim.eden@cityofls.net

PUBLIC WORKS 220 SE GREEN STREET

DAVID G LOHE

816-969-1814 david.lohe@cityofls.net

LEE'S SUMMIT, MO 64063

DRAINAGE/EROSION CONTROL

LEE'S SUMMIT, MO 64063

GAS SERVICE MISSOURI GAS ENERGY

bobbie.saulsberry@sug.com

1300 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081

BOBBIE SAULSBERRY 816-969-2266

ELECTRIC SERVICE

doug.davin@kcpl.com

DOUG DAVIN 816-347-4320

TELEPHONE AT&T

HOLLY GRUBER

913-383-4853 hg1753@att.com

LEE'S SUMMIT, MO 64063

Christina.alexander@cityofls.net

220 SE GREEN STREET

LEE'S SUMMIT, MO 64063

robert.mckay@cityofls.net

	Requ	uired			Required before Certificate of Occupancy		Signed and Sealed Survey Requried	
As-built Type	Yes	No	Horizontal	Vertical	Yes	No	Yes	No
Sanitary Service								
Storm Sewer								
Storm Water BMP's								
Water Service								
Full Site								

GENERAL NOTES

- THE CONSTRUCTION OF THIS PROJECT SHALL BE GOVERNED BY THE CITY OF LEE'S SUMMIT CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, THE CITY OF LEE'S SUMMIT STANDARD CONSTRUCTION DRAWINGS, AND THE CITY ENGINEERS AND STANDARD CONSTRUCTION
- 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. 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
- 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 KCMMB ASPHALT MATERIAL SPECIFICATION,



SUMMIT FAIR FSU STORE #2859 SITE PLAN DOCUMENTS

690 NW BLUE PARKWAY CITY OF LEE'S SUMMIT 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: JOHN ROMANELLO PHONE: (404) 765-8000

EMAIL: John.Romanello@cfacorp.com

PREPARED BY:

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.

INDEX

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) C-310

LANDSCAPE & MAINTENANCE SPECIFICATIONS L-102

CHICK-FIL-A CIVIL CONSTRUCTION SITE DETAILS

SHEET NO.

C-000

C-010

C-100

C-110

C-200

C-210

C - 300

C-301

C - 320

C-400

C-401

C-402

C-403

C-404

PS-100

L-100

L-101

DESCRIPTION

TITLE SHEET

SITE PLAN

AS-BUILT SURVEY

DEMOLITION PLAN

SITE PLAN DETAIL

GRADING PLAN DETAIL

GRADING PLAN

SWPPP DETAILS

UTILITY PLAN

LANDSCAPING PLANS

LANDSCAPE PLAN

LANDSCAPE DETAIL

EXISTING CONDITIONS PLAN

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

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.



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



FSU# 02859

REVISION SCHEDULE NO. DATE

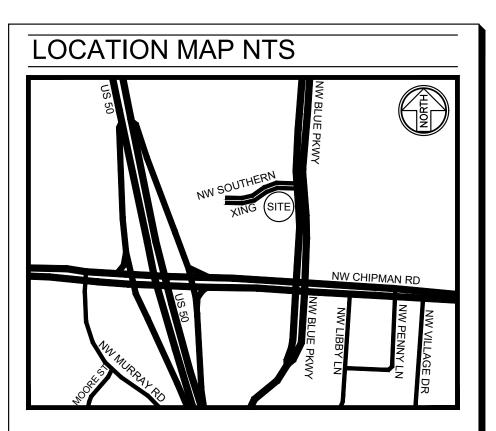
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Information contained on this drawing and in all digital files

.TITLE SHEET

SHEET NUMBER



LINE BEARING DISTANCE

L1 N 77°37'39" W 43.16'

L2 N 03°21'37" E 16.56'

L3 N 55°44'03" E 28.24'

L4 N 66°59'52" E 26.83'

L5 N 56°38'07" E 74.43'

L7 S 01°03'34" W 6.97'
L8 S 89°34'10" E 23.05'
L9 S 52°03'45" E 24.76'

S 89°32'43" E 46.46'

251.22' 112.23'

143.26' 85.17'

1763.73' 68.82'

134.24' 35.02'

ST MH

1020.30 IE=1012.13

Access & Utility

SCALE 1" = 20'

BASIS OF BEARINGS

SPC (2403 MO W)

Easement Doc. 2008E0085122 TC=1020.73

CURVE RADIUS ARC LENGTH CHORD LENGTH CHORD BEARING DELTA ANGLE

N 80°21'15" E 25°35'45"

S 05°11'45" W 14°56'42"

N 73°40'38" E

S 02°58'44" E

N 86°34'13" W 101.28

× 1020.78 × 1020.44

Easement (Width Varies) ~ASPHALT~

Doc. 2007E0088121

/ Doc. 2008E0085122

Doc. 2010E0012640 Doc. 2008E0046067

Doc. 2010E0012640

CLIENT INFORMATION SITE ADDRESS PARKING COUNT

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

REGULAR SPACES: 690 NW BLUE PKWY. HANDICAP SPACES: LEE'S SUMMIT, MO 64086

TBM PK Nail Set

TC=1018.55 IE=1009.60 18"

IE=1008.95 24"

62,332 S.F.

1019.19

1.431 AC. ⇒

IE=1007.50 Bot. 1

Elev=1018.68

Hatched Area is Approx. Location of

~ASPHALT~

Hatched Area is

N 86°48'22" W 110.93'

Approx. Location of

Doc. 2010E0018101

- Permanent Access Drive

TC=1018.83

IE=1011.03

TC=1018.95

IE=1012.30

TC=1018.32

IE=1014.42

× 1019.38

Permanent Access Drive 1017.34

THE CHICK-FIL-A INC. PROPERTY PARCEL 51-700-04-20-00-0-000 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

OWNER INFORMATION

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.

TOTAL SPACES:

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.

TC=1016.90 <

IE=1012.80 12"

IE=1005.95 Bot.

SITE UTILITIES

CITY OF LEE'S SUMMIT (WATER, STORM, SEWER) 22 SE GREEN STREET LEE'S SUMMIT. MO 64063 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

FFE@Door

N 86°47'43" W 191.07"

Doc. 2010E0012640

Hatched Area is

Permanent Access Drive

Doc. 2010E0018101

Approx. Location of Elev=1018.46

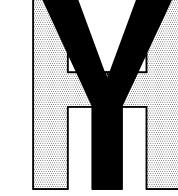
LEE'S SUMMIT, MO 64063 816-969-1600

~ASPHALT~ 1018.57

KCP&L Easement

Doc. 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)	<u>6 / 5/23</u>
DATE (OFFICE)	6 /12/23
CHECKED BY	DRH



5200 Buffington Road Atlanta, Georgia 30349-2998

SURVEY NOTES:

TC=1014.53 ∕−IE=1005.83

FFE@Door Elev=1019.05

TC=1019.06

~ASPHALT~

Doc. 2010E0012640

× 1018.79

TC=1018.24

PK Nail Set

TC=1014.62 IE=1007.37 W IE=1006.02 Bot.

TC=1016.97

¹⁴lÉ≟1010.97 24"

- IE=1004.77 18"

IE=1003.77 Bot.

ST MH

TC=1014.99

IE=1002.94

Doc. 2007E0088121

Doc. 2008E0085122 Doc. 2010E0012640

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 HERON, 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

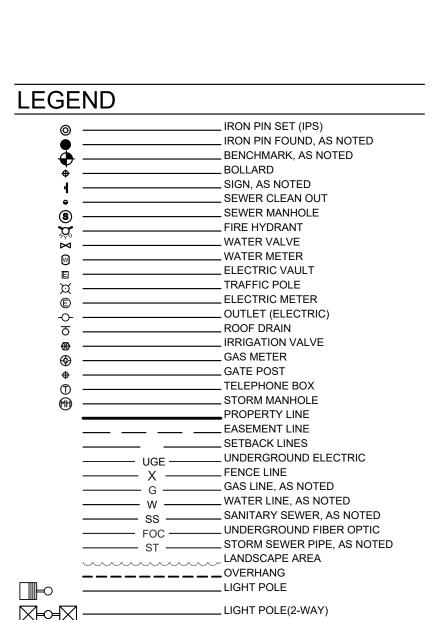
LIST OF ENCROACHMENTS: NONE

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

CONTOURS WERE DERIVED FROM RANDOM SHOTS AND CROSS SECTIONS AND ARE SHOWN AT ONE FOOT INTERVALS. ELEVATIONS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS TOGETHER WITH AN OPUS SOLUTION, DATED 6/13/2023 (NAVD88,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 UGE _____ UNDERGROUND ELECTRIC _____ FENCE LINE _____ GAS LINE, AS NOTED _____ WATER LINE, AS NOTED ____ SS _____ SANITARY SEWER, AS NOTED _____ST ____STORM SEWER PIPE, AS NOTED LANDSCAPE AREA ____OVERHANG ____LIGHT POLE





FSU# 2859

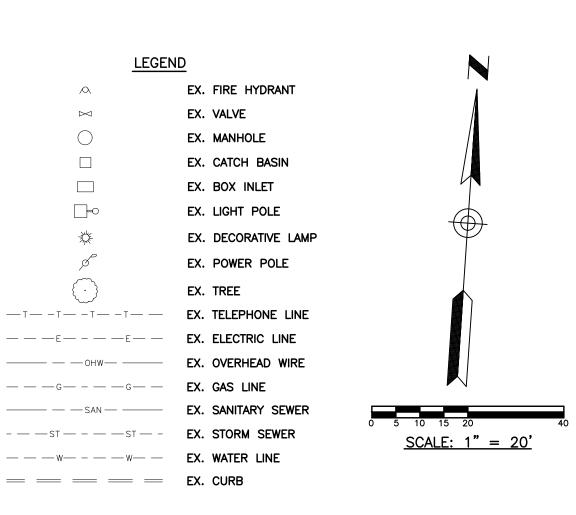
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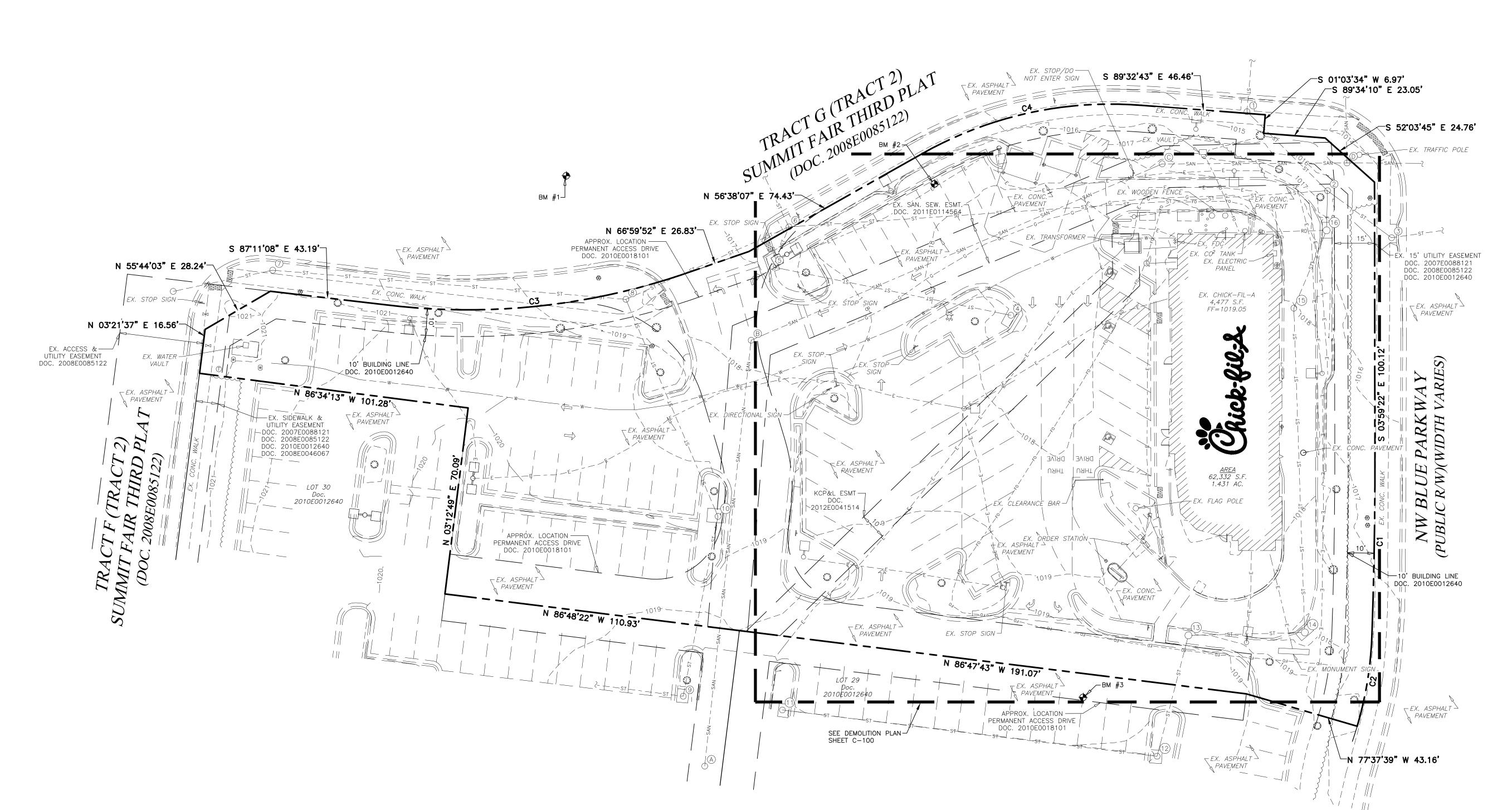
AS-BUILT SURVEY SHEET 1 OF 1

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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EXISTING STORM SEWER STRUCTURE SCHEDULE

- 1. EX. CURB INLET M.H. TOP 1014.53 INV. 1005.83, 18" N
- INV. 1005.83, 18" SE

 2. EX. STM. M.H.
 TOP 1016.97
 INV. 1004.77, 18" NW
 INV. 1003.77, 36" SF
- INV. 1004.77, 18" NW
 INV. 1003.77, 36" SE
 INV. 1003.77, 36" W
 INV. 1010.97, 24" S
- 3. EX. CURB INLET M.H. TOP 1014.99 INV. 1002.94, 36" NW INV. 1002.94, 36" E
- 4. EX. CATCH BASIN
 TOP 1017.55
 INV. 1014.40, 12" W
- 5. EX. CURB INLET M.H. TOP 1017.61 INV. 1013.51, 12" E INV. 1013.51, 12" N 6. EX. CURB INLET M.H.
- 6. EX. CURB INLET M.H.
 TOP 1016.90
 INV. 1012.80, 12" S
 INV. 1005.95, 36" E
 INV. 1006.11, 24" NW
 INV. 1005.95, 30" SW
- 7. EX. STM. M.H.

 TOP 1020.73

 INV. 1012.13, 18" W

 INV. 1012.13, 18" E
- 8. EX. STM. M.H. TOP 1018.55 INV. 1009.60, 18" W INV. 1007.50, 30" NE INV. 1008.95, 24" SE 9. EX. CURB INLET M.H.
- TOP 1018.83 INV. 1011.03, 24" W INV. 1011.03, 24" N 10. EX. CURB INLET M.H.
- 10. EX. CURB INLET M.H.
 TOP 1019.14
 INV. 1010.24, 24" S
 INV. 1010.24, 24" NW
- 11. EX. CATCH BASIN TOP 1018.32 INV. 1014.42, 15" E
- 12. EX. CURB INLET M.H. TOP 1018.24 INV. 1013.14, 15" W INV. 1013.14, 18" N
- 13. EX. CURB INLET M.H. TOP 1019.06 INV. 1012.66, 18" S INV. 1012.66, 24" E
- 14. EX. CURB INLET M.H. TOP 1017.77 INV. 1012.32, 24" W INV. 1012.32, 24" N
- 15. EX. STM. M.H.

 TOP 1018.05

 INV. 1012.00, 24" S

 INV. 1012.00, 24" N

 16. EX. CURB INLET M.H.

 TOP 1017.58
- INV. 1011.48, 24" S INV. 1011.48, 24" N INV. 1013.38, 6" W

EXISTING SANITARY SEWER STRUCTURE SCHEDULE

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

 EXISTING
 CONDITIONS
 PLAN

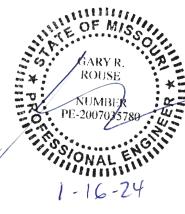
SHEET NUMBER C-100

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

GBC DESIGN, INC. 565 White Pond Dr. Akron, OH 443 Phone 330-836-0228 Fax 330-88



SUMMIT FAIR FSU
CUSTOM PROJECT SOLUTIONS

FSU# 02859

DESCRIPTION

8/23/23

REVISION SCHEDULE

NO. DATE

GBC PROJECT#

PRINTED FOR

DRAWN BY

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND **DEMOLITION NOTES** ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN EX. POWER POLE ----st---- **EX. STORM SEWER** 1) EXISTING ASPHALT PAVEMENT TO BE SAWCUT FULL ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, EX. VALVE EX. WATER LINE DEPTH AND REMOVED AS NEEDED FOR NEW ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY CONSTRUCTION EX. MANHOLE — T — T — T — T — EX. TELEPHONE LINE AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO EX. CATCH BASIN 2 EXISTING CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND EX. BOX INLET AREA OF DEMOLITION INCLUDING ------ EX. OVERHEAD WIRE PAVEMENT REMOVAL, BUILDINGS, CONCRETE, SIGNS, LIGHT POLES, CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED EX. LIGHT POLE 3 EXISTING CONCRETE CURB TO BE SAWCUT AND ---G--G--EX. GAS LINE UTILITY SERVICES, FENCES, IN THE BID. REMOVED AS NEEDED FOR NEW CONSTRUCTION TREES, ETC. EX. SANITARY SEWER 4 EXISTING CONCRETE SIDEWALK TO BE SAWCUT AT NEAREST JOINT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION (5) EXISTING WALL TO BE REMOVED EX. STOP/DO — (6) EXISTING BOLLARD TO BE REMOVED NOT ENTER SIGN (7) EXISTING FLAG POLE TO BE REMOVED c*PAVEMENT-*G— (8) EXISTING RAILING TO BE REMOVED SCALE: 1" = 10' (9) EXISTING LIGHT POLE & ASSOCIATED UTILITIES TO BE RELOCATED (1) EXISTING ORDER STATION & ASSOCIATED UTILITIES TO BE REMOVED (1) EXISTING CLEARANCE BAR TO BE REMOVED (12) EXISTING HYDRANT ASSEMBLY TO BE RELOCATED (3) EXISTING MONUMENT SIGN TO BE REMOVED AND REPLACED. ASSOCIATED UTILITIES TO BE RELOCATED. PAVEMENT (14) EXISTING SIGN TO BE REMOVED (15) EXISTING UTILITY PANEL TO REMAIN (16) EXISTING ELECTRIC METER TO REMAIN EX. CHICK-FIL-A 4,477 S.F. (17) EXISTING GAS METER TO REMAIN FF=1019.05 (18) EXISTING GAS SERVICE TO REMAIN (19) EXISTING ELECTRIC TO REMAIN $\langle 20 \rangle$ EXISTING STORM STRUCTURE TO REMAIN ⟨2⟩ EXISTING TREE TO BE REMOVED ⟨2⟩ EXISTING TREE TO REMAIN ⟨3⟩ EXISTING COMMUNICATIONS TO REMAIN ⟨24⟩ EXISTING CO2 TANK TO REMAIN ⟨25⟩ EXISTING DOWNSPOUT TO REMAIN 26 EXISTING STORM STRUCTURE TO REMAIN. CONTRACTOR TO MODIFY EXISTING STRUCTURE TO PROPOSED CONDITIONS SHOWN ON SHEET C-300 EXISTING PAINT STRIPING TO BE BLACKED OUT AS NEEDED FOR NEW LAYOUT 28 EXISTING STORM SEWER TO REMAIN EXISTING STORM STRUCTURE TO REMAIN. CONTRACTOR TO REPLACE SOLID MANHOLE COVER WITH HEAVY DUTY OPEN GRATE COVER. (3) EXISTING IRRIGATION TO REMAIN (3) EXISTING SIGN TO REMAIN (32) EXISTING WATER LINE TO REMAIN :DEINE:: ⟨3⟩ EXISTING LIGHT POLE TO REMAIN EX. ASPHALT PAVEMENT .UAHI: ⟨3♠⟩ EXISTING SANITARY SEWER TO REMAIN 35 EXISTING CASH STATION TO BE REMOVED (2) EXISTING WOODEN FENCING TO BE REMOVED AND REPLACED LIMITS OF DISTURBANCE = 0.50 AC. 28 PAVEMENT EX. ASPHALT > PAVEMENT EX. ASPHALT PAVEMENT



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

GBC DESIGN, INC. 565 White Pond Dr. Akron, OH 44320-11 Phone 330-836-0228 Fax 330-836-57



MMIT FAIR FSU
STOM PROJECT SOLUTIONS
NW BLUE PARKWAY

FSU# 02859

REVISION SCHEDULE

NO. DATE DESCRIPTIO

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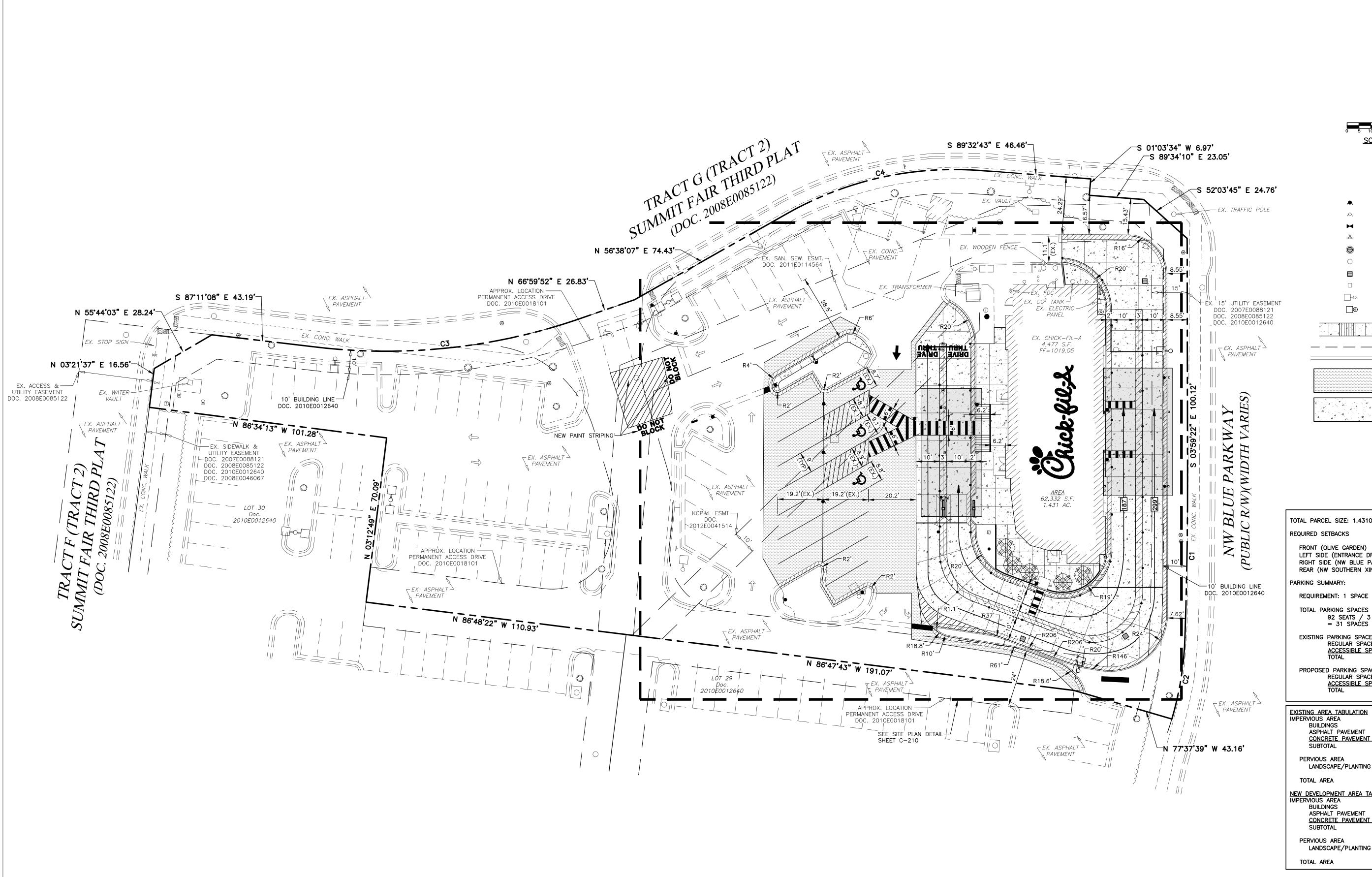
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SHEET

DEMOLITION

PLAN

SHEET NUMBER C-110



CURVE TABLE

CURVE | LENGTH | RADIUS | DELTA | TANGENT | CHORD LENGTH | CHORD BEARING

C2 | 35.02' | 134.24' | 14*56'42" | 17.61'

C3 | 112.23' | 251.22' | 25°35'45" | 57.07'

C4 85.17' 143.26' 34°03'55" 43.89'

S 02°58'44" I

S 05°11'45" V

N 80°21'15" E

N 73°40'38" E

34.92'

111.30'

83.92'

FLOOD ZONE DESIGNATION: THIS PROPERTY IS LOCATED WITHIN AN

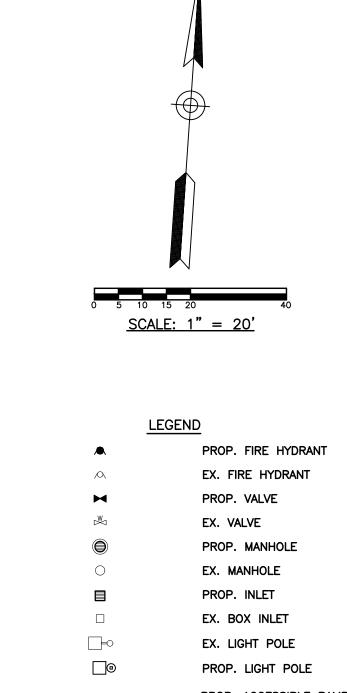
EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP

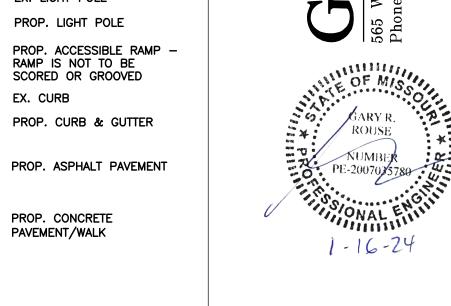
NO.29095C0417G, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD

AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL

INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID

PROPERTY IS SITUATED.





TOTAL PARCEL SIZE: 1.4310 AC.		
REQUIRED SETBACKS	BUILDING	LANDSCAPE
FRONT (OLIVE GARDEN) LEFT SIDE (ENTRANCE DRIVE) RIGHT SIDE (NW BLUE PARKWAY) REAR (NW SOUTHERN XING)	15' 10'	0' 0' 20' 20'
PARKING SUMMARY:		
REQUIREMENT: 1 SPACE PER 3 SE	EATS	
TOTAL PARKING SPACES REQUIRED 92 SEATS / 3 x 1 SPA = 31 SPACES		CONDITIONS):
EXISTING PARKING SPACES PROVID REGULAR SPACES ACCESSIBLE SPACES TOTAL	DED: = 64 = 3 = 67	
PROPOSED PARKING SPACES PROV REGULAR SPACES <u>ACCESSIBLE SPACES</u> TOTAL	= 56	

PERVIOUS 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
W DEVELOPMENT AREA TABULATION	
PERVIOUS AREA	
BUILDINGS	= 4,477 S.F
ASPHALT PAVEMENT	= 28,671 S.F.
CONCRETE PAVEMENT	= 19,215 S.F.
SUBTOTAL	= 52,363 S.F (84.01%)
PERVIOUS AREA	
LANDOCADE (DI ANTINIO	0.000 0 5 (45.00%)

LANDSCAPE/PLANTING	=	12,995	S.F.	(20.85	5%
TOTAL AREA	=	62,332	S.F.	(1.43	Α
NEW DEVELOPMENT AREA TABULATION IMPERVIOUS AREA			_		
BUILDINGS		4,477 S.			
ASPHALT PAVEMENT		28,671			
CONCRETE PAVEMENT SUBTOTAL		19.215 S 52,363 S		(84.01	%)
PERVIOUS AREA LANDSCAPE/PLANTING	=	9,969 S.	.F. (15.99	%)
TOTAL AREA	=	62,332	S.F.	(1.43	A

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.

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS
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'ERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT
ASPHALT AND CONCRETE) AND SIDEWALK SO THE
RESTORATION WORK IS INCLÚDED IN THE BID.

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DESIGN, INC.

Dr. Akron, OH 4432



SUMMIT F CUSTOM

FSU# 02859

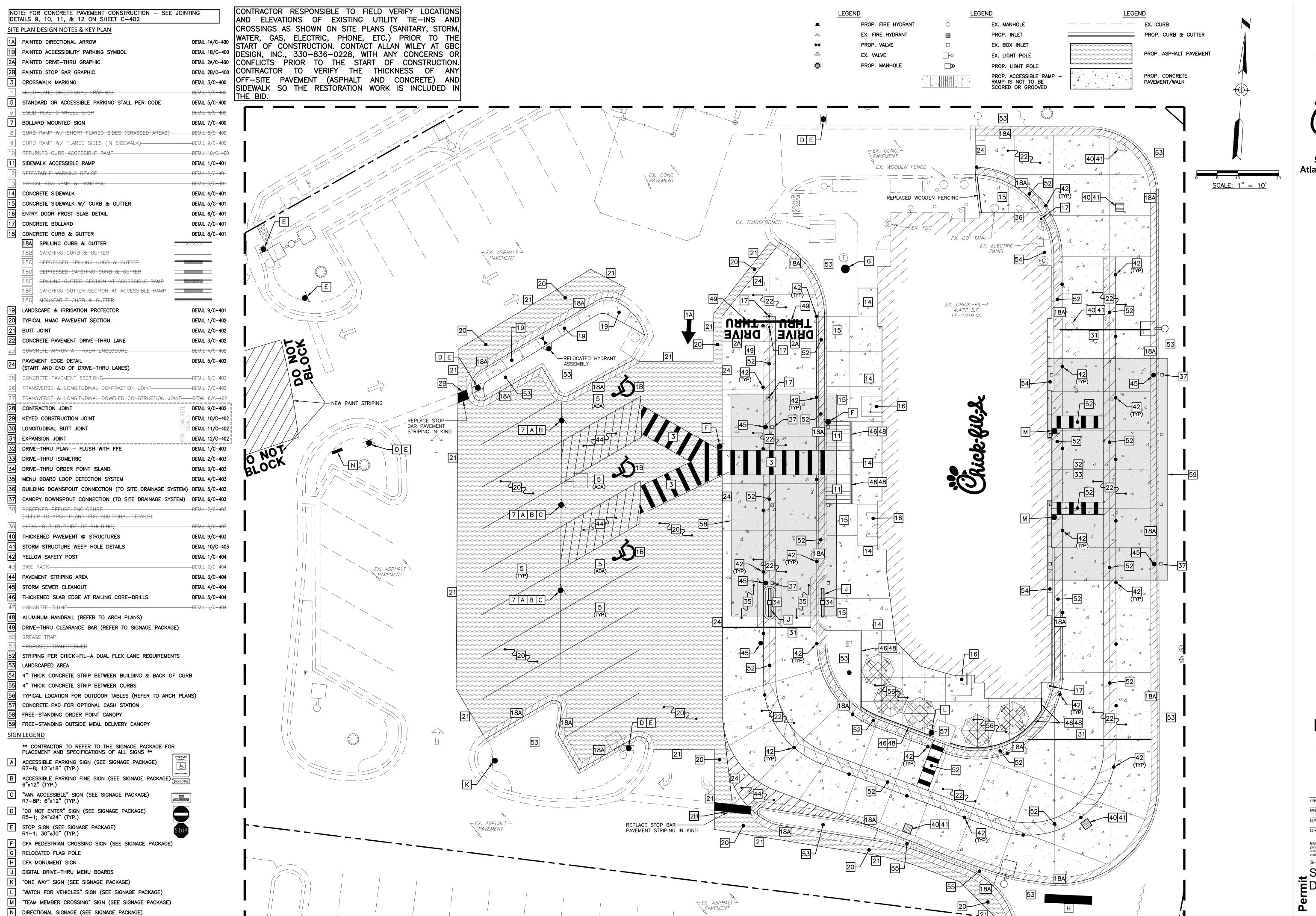
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SITE PLAN

C-200





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



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CUSTOM PROJECT SOLUTIONS
690 NW BLUE PARKWAY

FSU# 02859

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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
- 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.

TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

- 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 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 11. ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE UTILITY SERVICE SIZES ARE TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND ENSURE PROPER DEPTHS ARE ACHIEVED. THE JURISDICTION UTILITY REQUIREMENTS SHALL ALSO BE MET, AS WELL AS COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED

PRIOR TO CONSTRUCTION TO RESOLVE SAME.

- WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
- ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE. CABLE TV. ETC. ARE 14. TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS
- 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 17. AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT.

CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING 10. ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION 18. 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

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.

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.

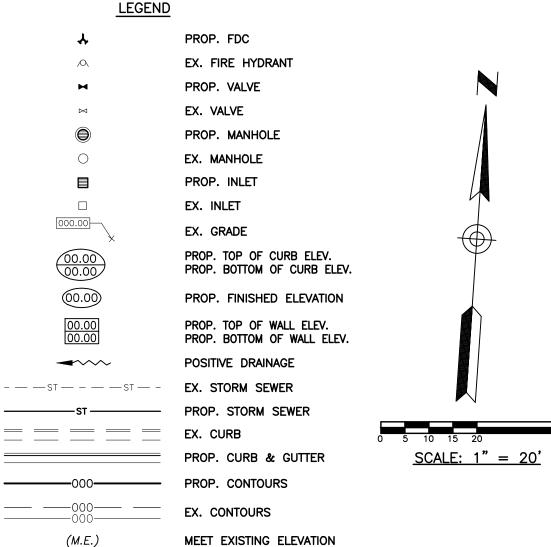
IN CASE OF DISCREPANCIES BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE. IMMEDIATELY NOTIFY THE ENGINEER IN WRITING

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

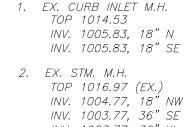
CONDITION OF EXISTING UNDERGROUND STORAGE TO BE DETERMINED PRIOR TO START OF CONSTRUCTION. AS DETERMINED BY INSPECTION OF EXISTING SYSTEM CLEANING MAY BE REQUIRED PRIOR TO START OF CONSTRUCTION. REPORT CONDITION TO PROJECT ENGINEER IN ADDITION TO MODIFICATION TO OUTLET PIPE OTHER ADJUSTMENTS TO SYSTEM MAY BE REQUIRED BASED ON CONDITION OF SYSTEM.

- EX. ASPHALT

PAVEMENT



EXISTING STORM SEWER STRUCTURE SCHEDULE



INV. 1003.77, 36" W INV. 1010.97, 24" S TOP 1014.99 INV. 1002.94, 36" NW INV. 1002.94, 36" E

4. EX. CATCH BASIN TOP 1017.55

TOP 1017.61 INV. 1013.51, 12" E INV. 1013.51, 12" N 6. EX. CURB INLET M.H. TOP 1016.90 INV. 1012.80, 12" S INV. 1005.95, 36" E

7. EX. STM. M.H. TOP 1020.73 INV. 1012.13, 18" W

8. EX. STM. M.H. TOP 1018.55 INV. 1009.60, 18" W INV. 1007.50, 30" NE INV. 1008.95, 24" SE

TOP 1018.83 INV. 1011.03, 24" W INV. 1011.03, 24" N

INV. 1010.24, 24" S INV. 1010.24, 24" NW TOP 1018.32

INV. 1014.42, 15" E 12. EX. CURB INLET M.H. TOP 1018.24 INV. 1013.14, 15" W INV. 1013.14, 18" N

> PROP. CATCH BASIN (EJIW #5250 FRAME & GRATE) TOP 1019.06 (EX.) TOP 1018.30 (PROP.) INV. 1012.66, 18"

TOP 1017.59 (PROP.) INV. 1012.32, 24" W

15. EX. STM. M.H. TOP 1018.05 (EX.) TOP 1018.46 (PROP.) INV. 1012.00, 24"

> TOP 1017.39 (PROP. INV. 1011.48, 24" S INV. 1011.48, 24" N INV. 1013.38, 6" W

5200 Buffington Road

Atlanta, Georgia 30349-2998

Design,

GARY R.

ROUSE

NUMBER

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SUMMIT F CUSTOM

FSU# 02859

3. EX. CURB INLET M.H.

INV. 1014.40, 12" W 5. EX. CURB INLET M.H.

INV. 1006.11, 24" NW INV. 1005.95, 30" SW

INV. 1012.13, 18" E

9. EX. CURB INLET M.H.

10. EX. CURB INLET M.H TOP 1019.14

11. EX. CATCH BASIN

13. EX. CURB INLET M.H.

INV. 1012.66, 24" E 14. EX. CURB INLET M.H. PROP. CATCH BASIN (EJIW #5250 FRAME & GRATE)

INV. 1012.32, 24" N INV. 1012.00, 24" N

16. EX. CURB INLET M.H. PROP. CATCH BASIN (EJIW #5250 FRAME & GRATE) TOP 1017.58 (EX.)

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GRADING PLAN

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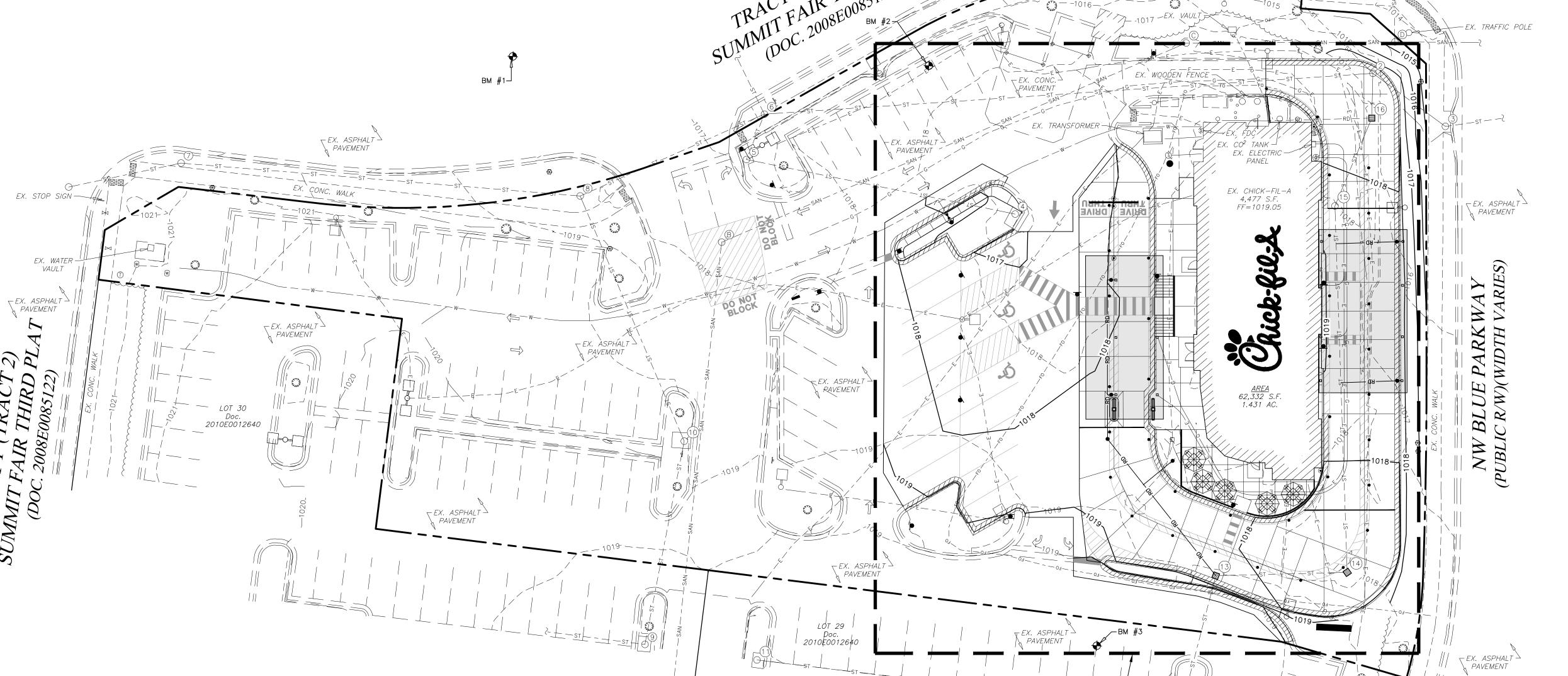
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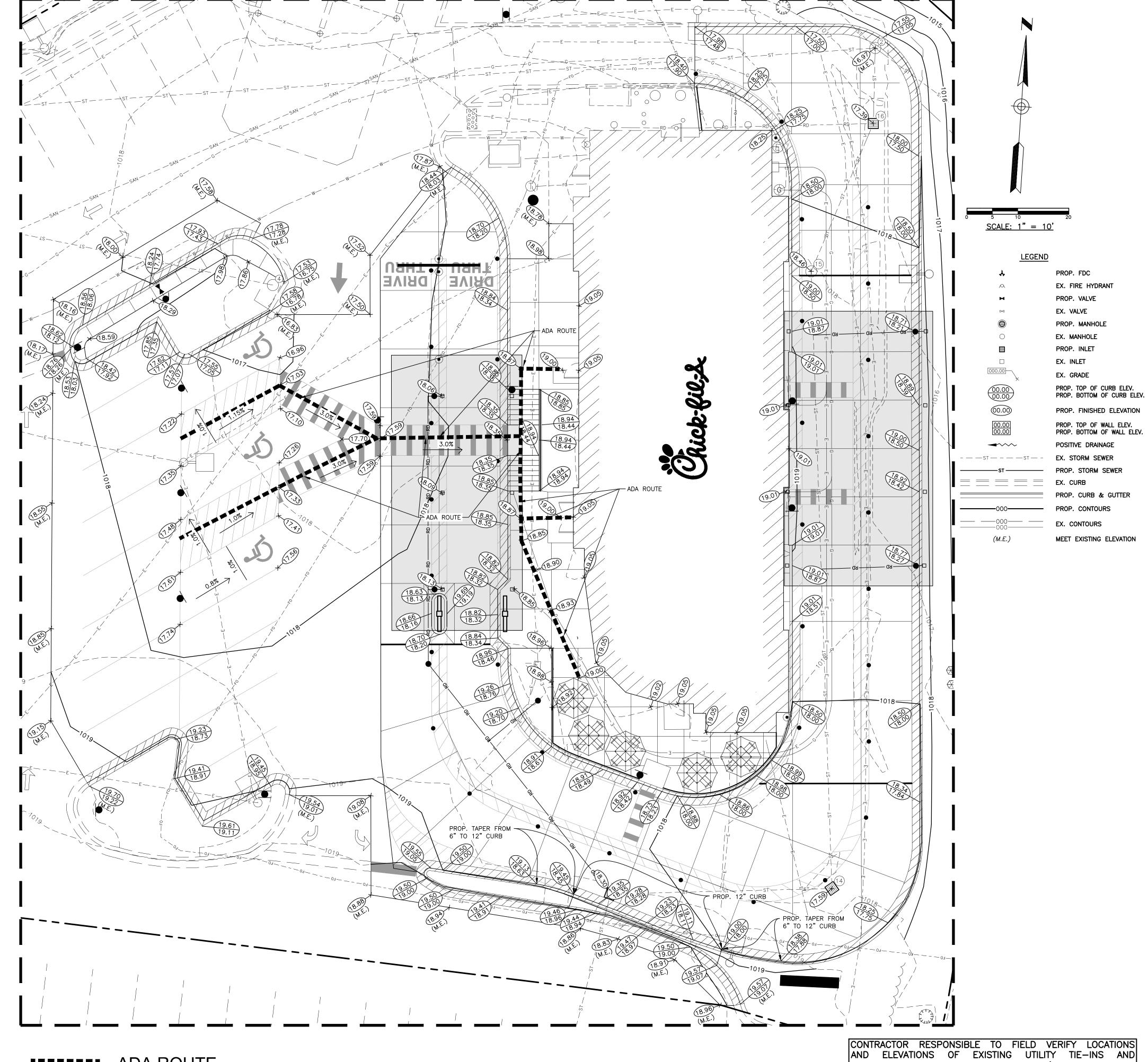
C-300

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 PROPERTY IS SITUATED.

SEE GRADING PLAN DETAIL + SHEET C-301

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 NO.29095C0417G, WITH A MAP REVISED DATE OF JANUARY 20, 2017, TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.





ADA ROUTE

SLOPES WITHIN ADA WALK AREA SHALL NOT EXCEED 5.0% IN ALL DIRECTIONS.
 RAMPS SHALL NOT EXCEED 7.14%.
 ADA PARKING STALLS SHALL NOT EXCEED 1.5% IN ALL DIRECTIONS.

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 5200 Buffington Road Atlanta, Georgia 30349-2998



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GRADING PLAN DETAIL

SHEET NUMBER

C-301

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

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

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

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

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 = 0.85

PRE CONSTRUCTION IMPERVIOUS AREA = 49,337 S.F. (79.15%) POST CONSTRUCTION IMPERVIOUS AREA = 52,363 S.F. (84.01%)

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. SEÉD 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

ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

OPEN BURNING IS NOT ALLOWABLE.

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

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

. INSTALL CONSTRUCTION ENTRANCE.

POST SWPPP PLANS ONSITE.

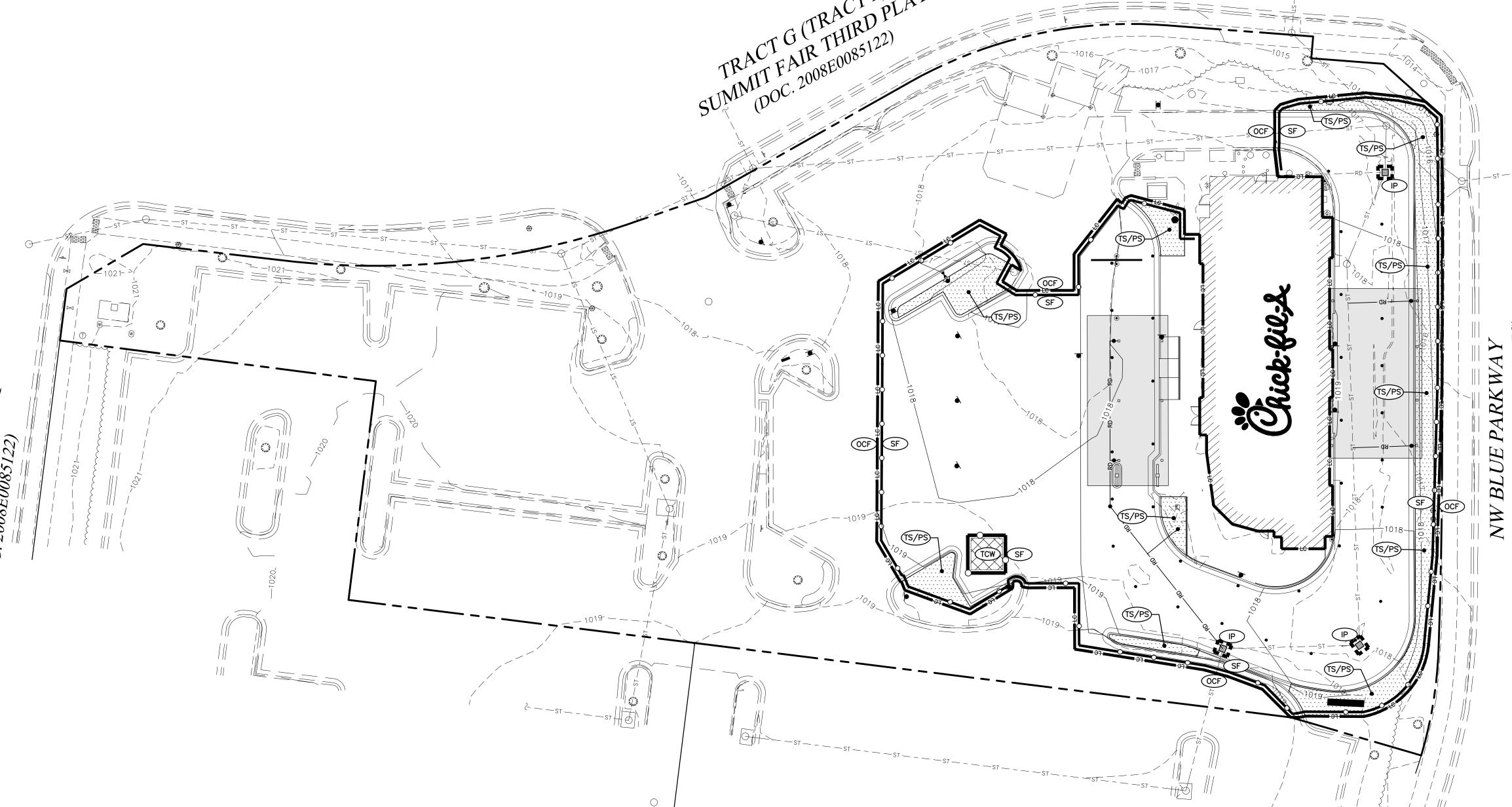
THE CONTRACTOR SHALL IMPLEMENT ALL OF THE FOLLOWING EROSION CONTROL MEASURES, IN THE ORDER STATED, PRIOR TO OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL AND STORM WATER POLLUTION PREVENTION ITEMS. ALL EROSION CONTROL MEASURES MUST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

- 1. BEFORE CONSTRUCTION, EVALUATE, MARK, AND PROTECT IMPORTANT
- 2. CLEAR AREAS FOR CONSTRUCTION ENTRANCE AND SILT FENCE.
- 5. INSTALL EROSION CONTROL FENCES AND OTHER PERIMETER CONTROLS AROUND CONSTRUCTION AREA BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- 6. INSTALL PROTECTION MEASURES AROUND EXISTING INLETS.
- . 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
- 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
- 12. FINISH MASS EARTHWORK.
- 13. COMPLETE ASPHALT PAVING.

CONCRETE WASHOUT.

- 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.

LEGEND PROP. MANHOLE EX. MANHOLE PROP. INLET EX. INLET EX. STORM SEWER - — — ST — - — — ST — -PROP. STORM SEWER EX. CURB PROP. CURB & GUTTER PROP. CONTOURS EX. CONTOURS SILT FENCE/FILTER SOCK LIMITS OF CONSTRUCTION TO BE DESIGNATED BY ORANGE CONSTRUCTION FENCE WHEN NOT ADJACENT TO SILT FENCE (IP) INLET PROTECTION TEMPORARY SEEDING & MULCHING/ PERMANENT (TS/PS) SEEDING & MULCHING SEE LANDSCAPE PLAN L-100 SCALE: 1" = 20TEMPORARY CONCRETE WASH-OUT AREA LIMITS OF DISTURBANCE = 0.50 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-**5200 Buffington Road** Atlanta, Georgia 30349-2998



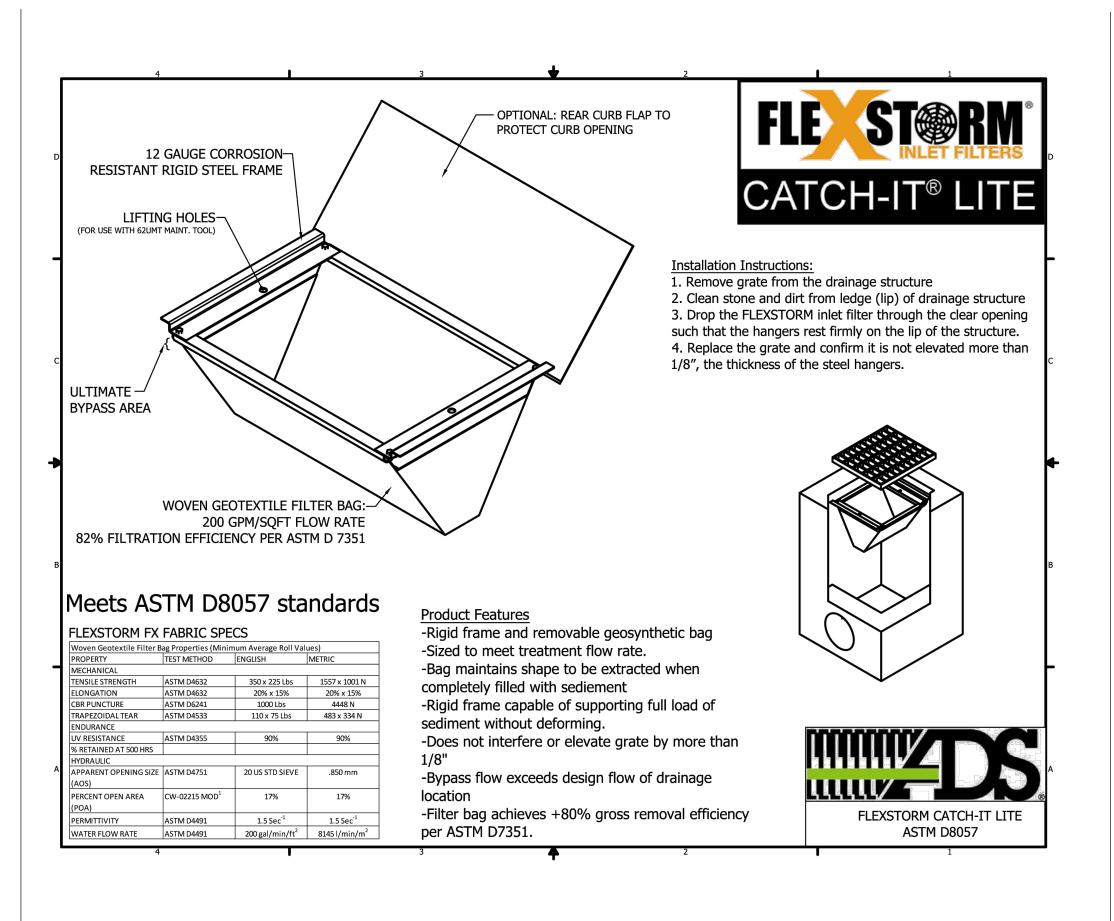
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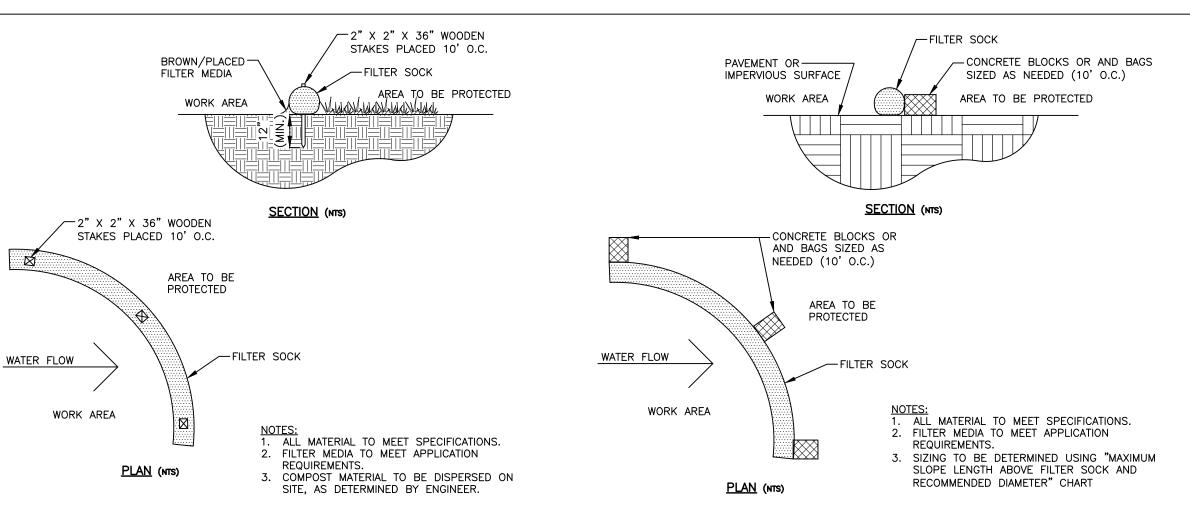
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STORMWATER POLLUTION PREVENTION PLAN (SWPPP)





FILTER SOCK DETAIL

(NOT TO SCALE)

- MATERIALS COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 3/8" TO 2".
- 2. FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

INSTALLATION:

- 3. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE
- PROVIDED AT THE TOP AND AS NEEDED MIDSLOPE. 4. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF
- INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION. 5. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

FILTER SOCK ON PAVEMENT DETAIL

(NOT TO SCALE)

MAINTENANCE:

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

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

LATH & ---FLAGGING ON ALL SIDEWS -SANDBAGS 10' MIN. \bigcirc \bigcirc 10 MIL PLASTIC LINING PLYWOOD 48" X 24" BLACK LETTERS -PAINTED WHITE 6" HEIGHT / SANDBAGS PLASTIC CÓNCRETE -0.5" LAG LINING WASHOUT SCREWS -WOOD POST

1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING. 2. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AS SHOWN ON THE DETAIL WITH A MINIMUM LENGTH AND MINIMUM WIDTH OF

CONCRETE WASHOUT

SIGN DETAIL

(OR EQUIVALENT)

N.T.S.

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

TEMP. CONCRETE WASHOUT FACILITY (BELOW GRADE)

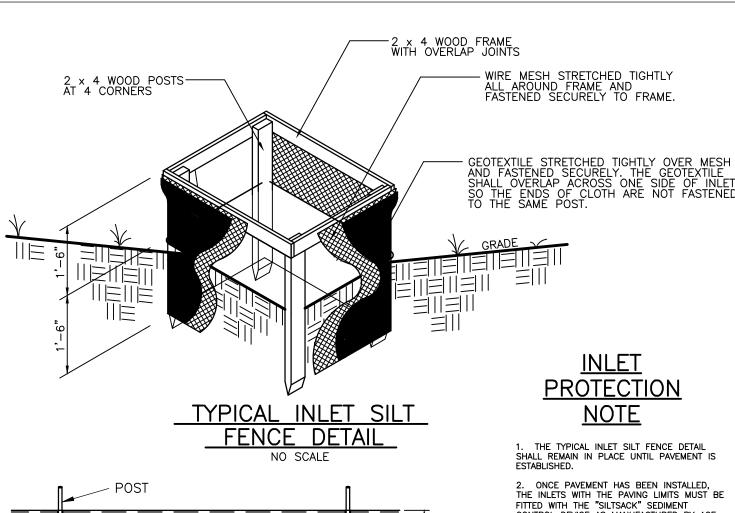
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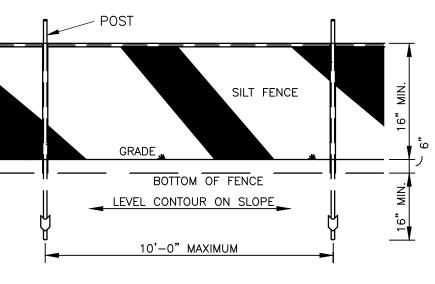
SILT FENCE

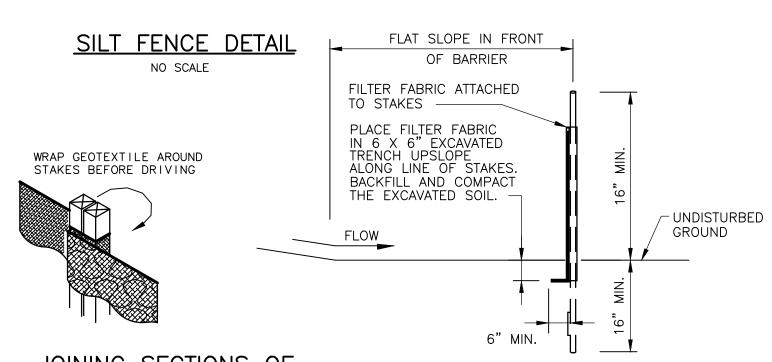
- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES THE EARTH ARCHIND THE INLET SHALL EXCAVATED COMPLETELY TO A DEPTH AT LEAST
- 18 INCHES
- 3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-IN. CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-IN. POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-BY-4-IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC. POSE A SAFETY HAZARD TO TRAFFIC.
- 4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- 1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- 2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH
- 3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
- 4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- 5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MIN. OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.
- 7. THE SILT FENCE SHALL BE PLACED IN A

- 5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40- SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM TOP OF THE FRAME TO 18 INCHES BELOW TH NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ON SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6—IN. LAYERS UNTIL BE PLACED AROUND THE THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.
- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWN SLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
- 9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
- 10. MAINTENANCE-SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
- CRITERIA FOR SILT FENCE MATERIALS
- 1. FENCE POSTS-- THE LENGTH SHALL BE A MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.

 TRENCH CUT A MIN. OF 6 IN. DEEP. TRENCH SHALL BE CUT WITH A TRENCH CABLE LAYING MACHINE, OR OTHER SU DEVICE WHICH WILL ENSURE AN ADEQU UNIFORM TRENCH DEPTH.	THE ER, 2. SILT FENCE FAE	BRIC (SEE CHART BELOW):
FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 PSI MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./F ² MAXIMUM	ASTM D 3786
EQUIVALENT OPENING SIZE	40–80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM-G-26







JOINING SECTIONS OF SILT FENCE DETAIL

NO SCALE

SILT FENCE SECTION NO SCALE

CONTROL DEVICE AS MANUFACTURED BY ACF ENVIROMENTAL CONTROL INC., OR APPROVED

3. SILT SACK MUST REMAIN IN PLACE UNTIL THE SITE HAS BEEN SEEDED & STABILIZED.

TEMPORARY SEEDING

TEMPORARY SEEDING SPECIES SELECTION					
SEEDING DATES	SPECIES	LB/1000 FT. ²	PER ACRE		
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHE		
	TALL FESCUE	1	40 LB.		
	ANNUAL RYEGRASS	1	40 LB.		
	PERENNIAL RYEGRASS	1	40 LB.		
	TALL FESCUE	1	40 LB.		
	ANNUAL RYEGRASS	1	40 LB.		
AUGUST 16 TO NOVEMBER 1	RYE	3	2 BUSHE		
	TALL FESCUE	1	40 LB.		
	ANNUAL RYEGRASS	1	40 LB.		
	WHEAT	3	2 BUSHE		
	TALL FESCUE	1	40 LB.		
	ANNUAL RYEGRASS	1	40 LB.		
	PERENNIAL RYEGRASS	1	40 LB.		
	TALL FESCUE	1	40 LB.		
	ANNUAL RYEGRASS	1	40 LB.		
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.				

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

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

MULCHING TEMPORARY SEEDING

APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.

MATERIALS:

STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN APPLIED AT 2 TONS/AC. OR 90 LB. / 1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.

HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. / AC. OR 46 LB. /1,000 SQ. FT.

OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS / AC.

3. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:

MECHANICAL -- A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICAL ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY BE LEFT LONGER THAN 6 IN.

MULCH NETTINGS -- NETTINGS SHALL BE USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MADE BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.

ASPHALT EMULSION -- ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT THE RATE OF 160 GAL. / AC.

SYNTHETIC BINDERS -- SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA-TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.

WOOD-CELLULOSE FIBRE--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. /AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. / 100 GAL.

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Design,



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FSU# 02859

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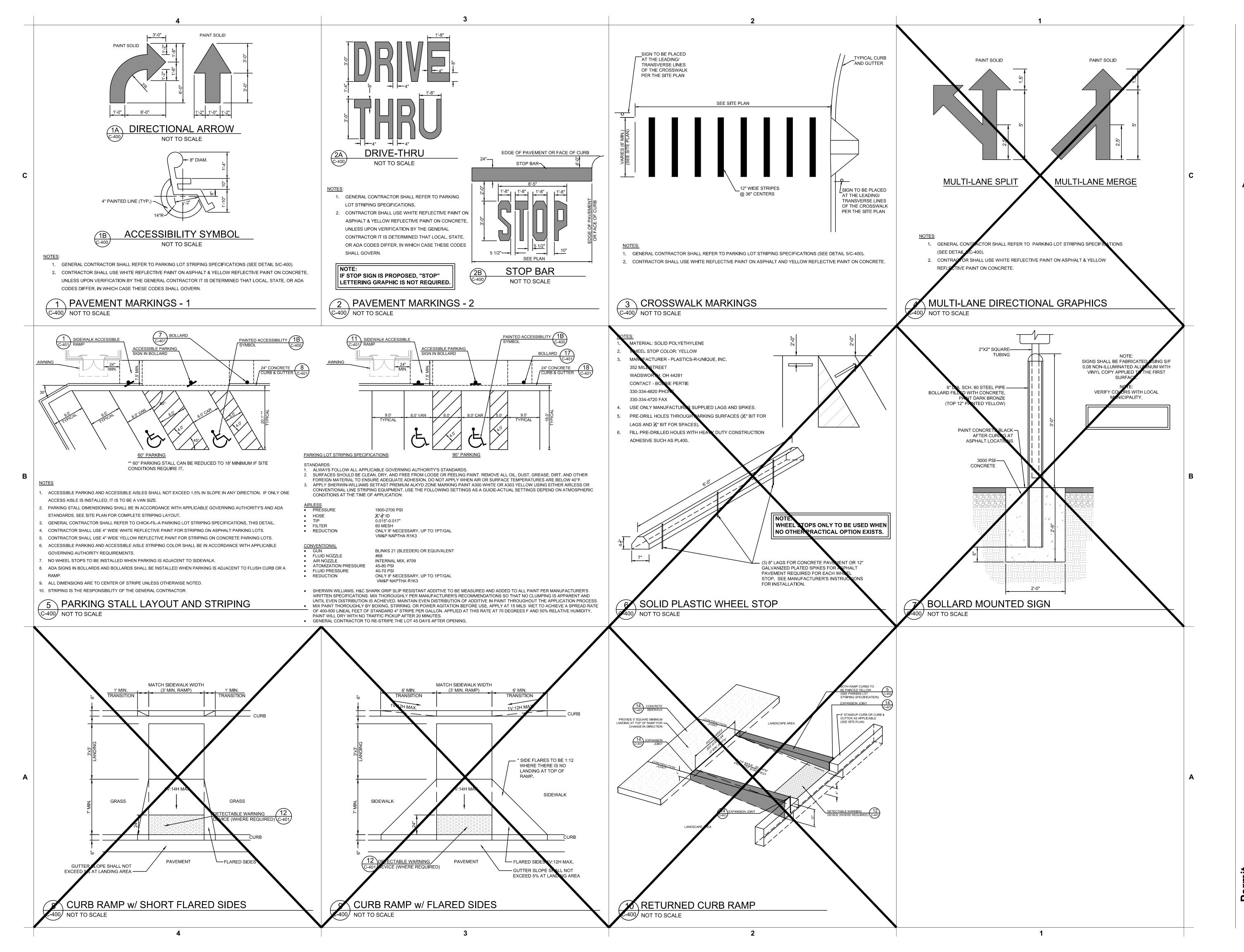
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SWPPP DETAILS





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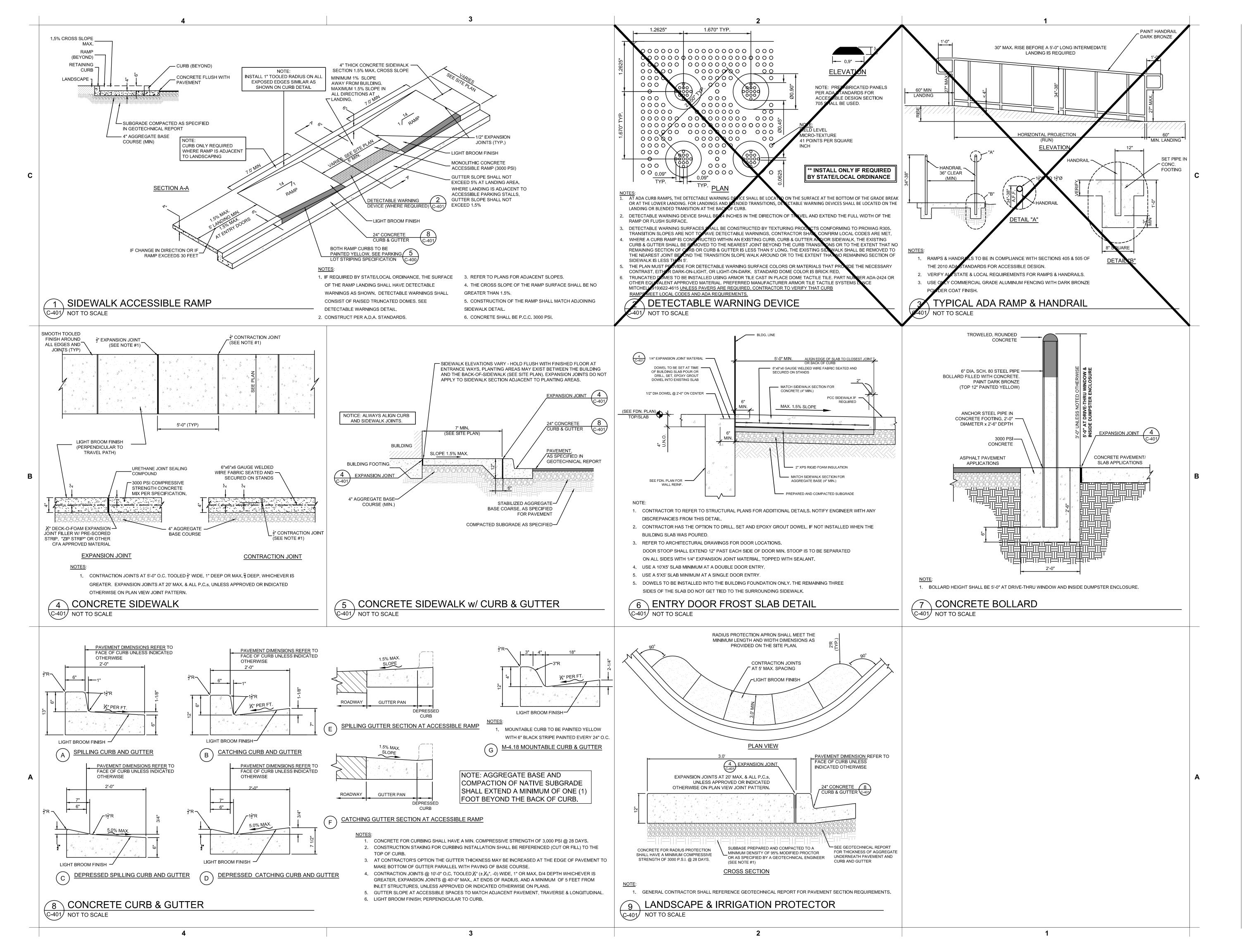


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CHICK-FIL-A SITE DETAILS





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

GBC DESIGN, INC.

565 White Pond Dr. Akron, OH 44320-112
Phone 330-836-0228 Fax 330-836-578



UMMIT FAIR FSU
USTOM PROJECT SOLUTIONS

FSU# 02859

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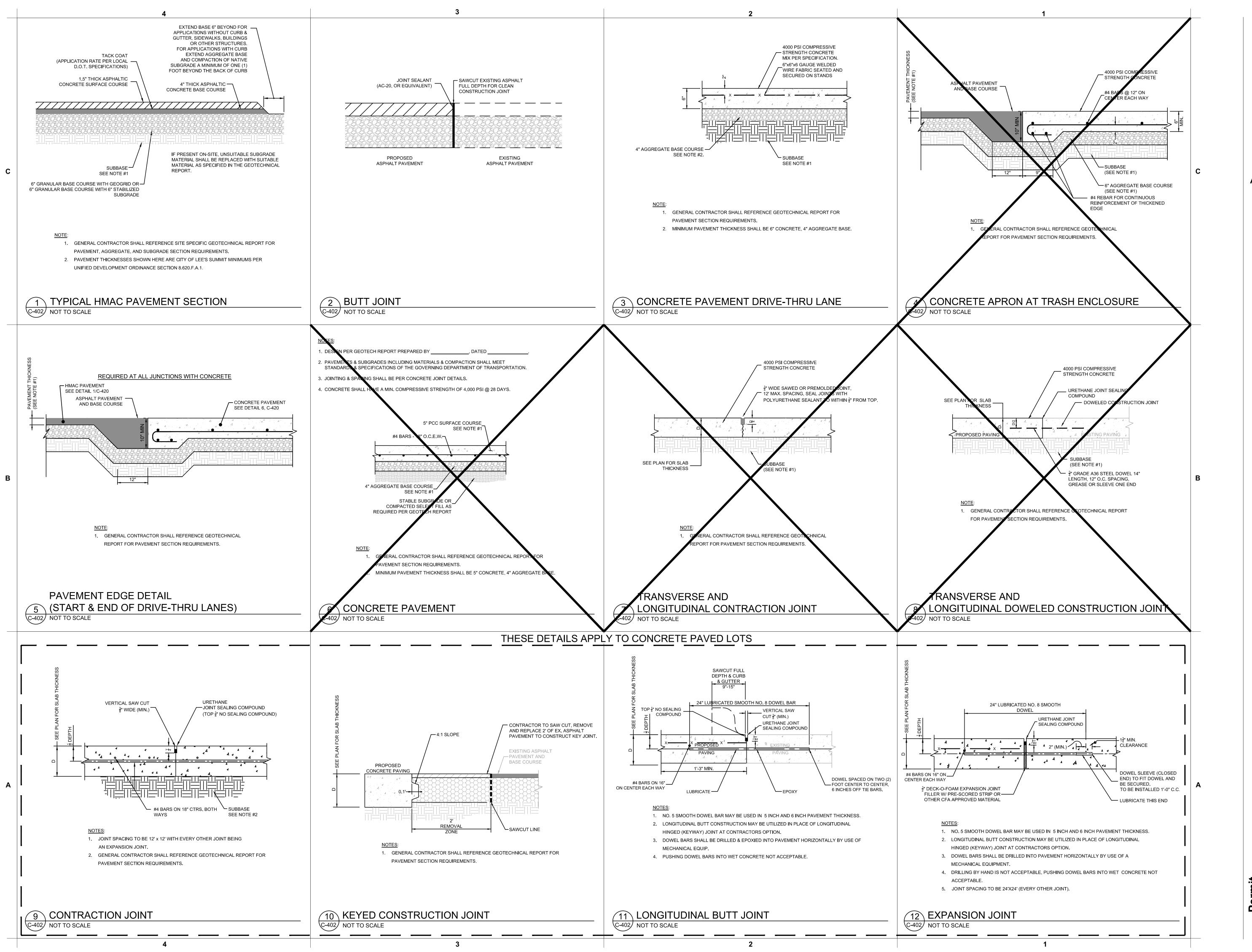
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CHICK-FIL-A SIT

DETAILS

C-40



Chick-fil-&

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
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USTOM PROJECT SOLUTIONS

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REVISION SCHEDULE

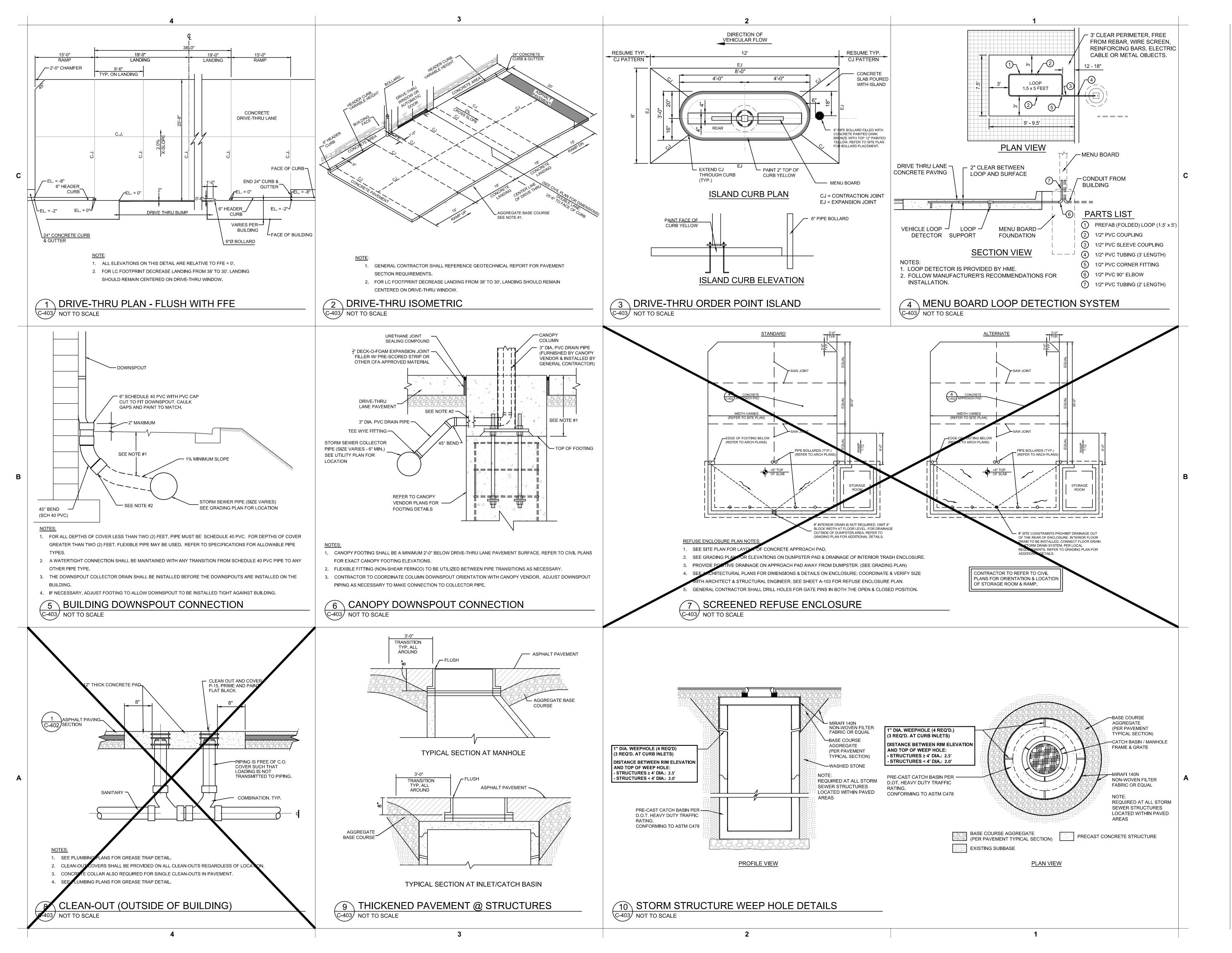
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CHICK-FIL-A SITE DETAILS

C-402





5200 Buffington Road Atlanta, Georgia 30349-2998



FSU# 02859

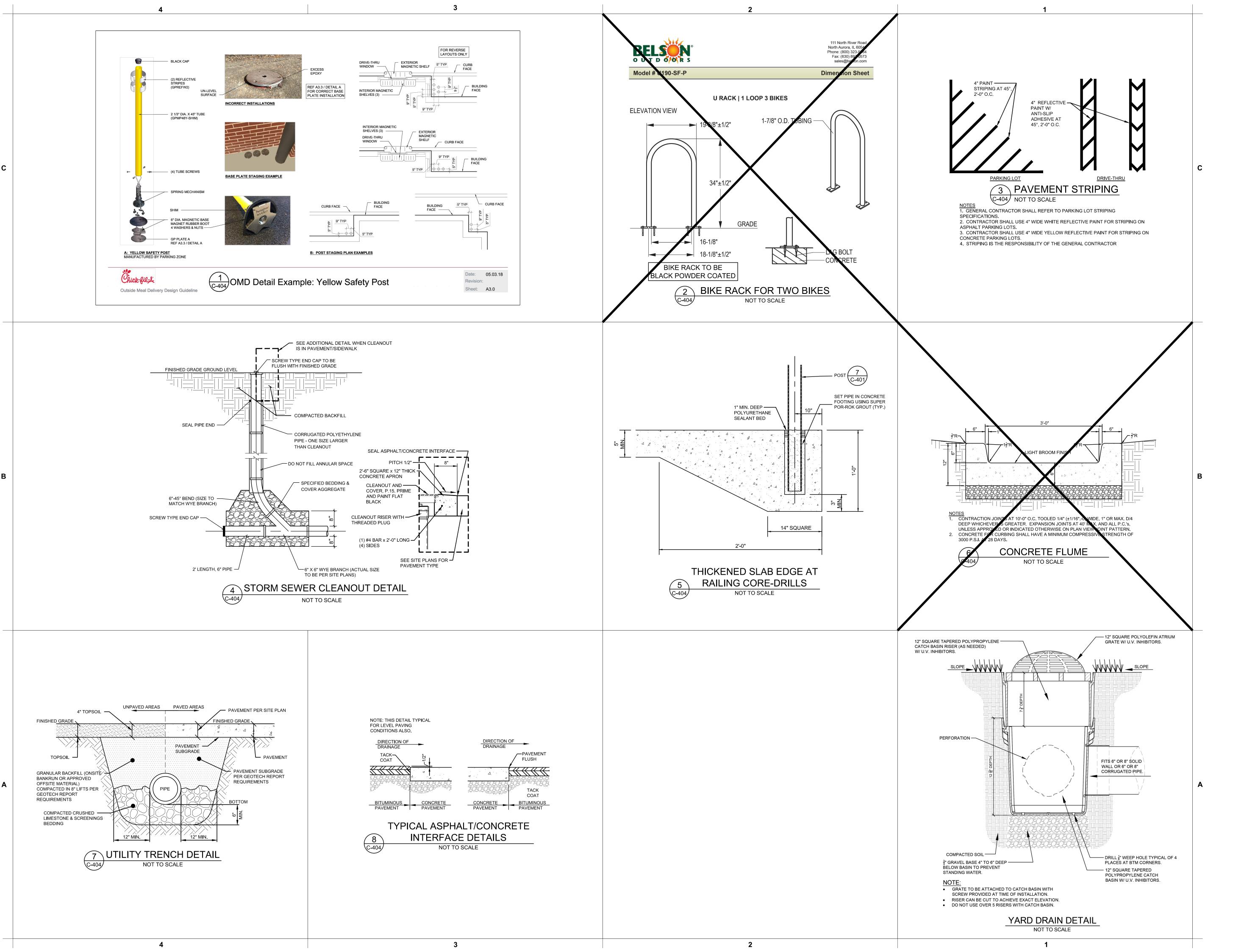
NO. DATE

GBC PROJECT # PRINTED FOR 8/23/23

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authorized project representatives. CHICK-FIL-A SITE

DETAILS





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

> GBC DESIGN, INC. 565 White Pond Dr. Akron, OH 44320-112. Phone 330-836-0228 Fax 330-836-578



JAILCF-FILL-A
JMMIT FAIR FSU
USTOM PROJECT SOLUTIONS
0 NW BLUE PARKWAY

FSU# 02859

REVISION SCHEDULE

NO. DATE DESCRIPTION

GBC PROJECT #	43215A
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authorized project representatives.

SHEET

CHICK-FIL-A SITE

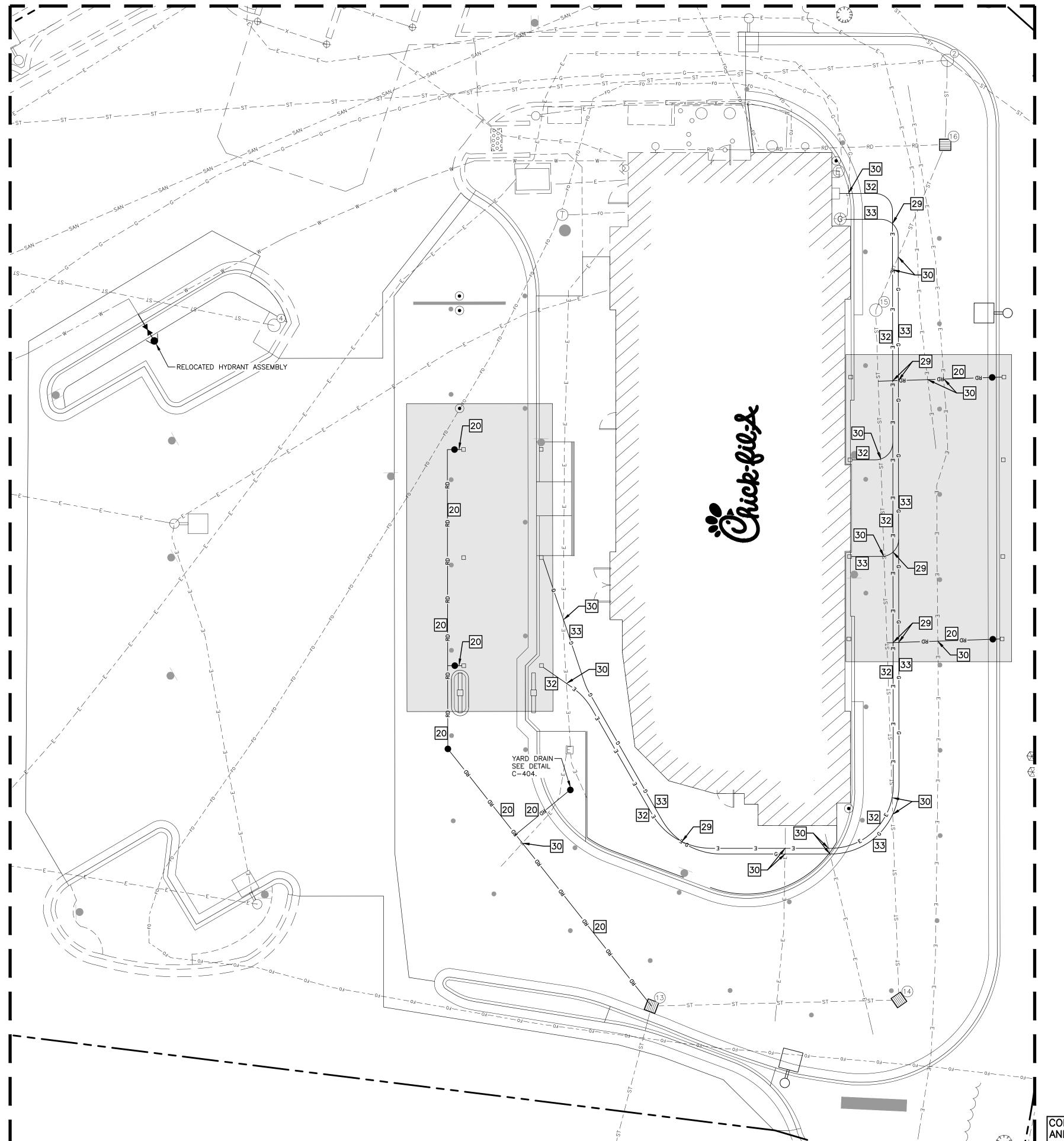
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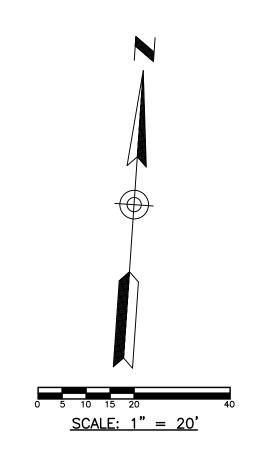
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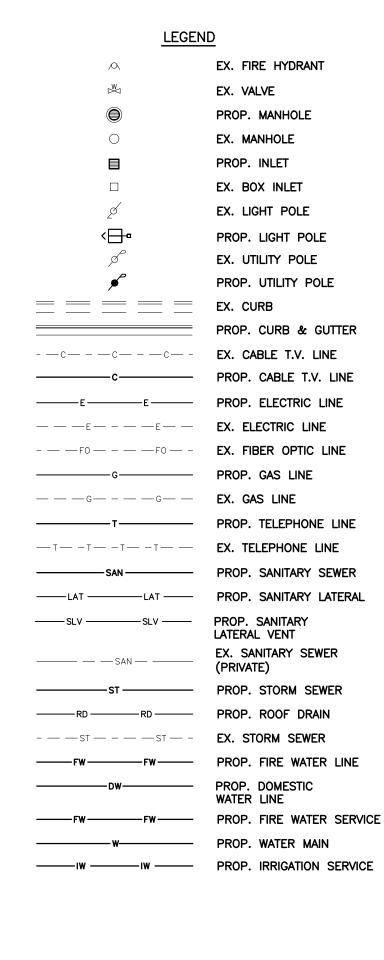
SHEET NUMBER

UTILITY LAYOUT NOTES

- 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.
- 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.
- 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.
- INSTALL GAS SERVICE TO CANOPY (REFER TO MEP PLANS). SITE CONTRACTOR TO COORDINATE WITH BUILDING AND PLUMBING CONTRACTOR.







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 5200 Buffington Road Atlanta, Georgia 30349-2998



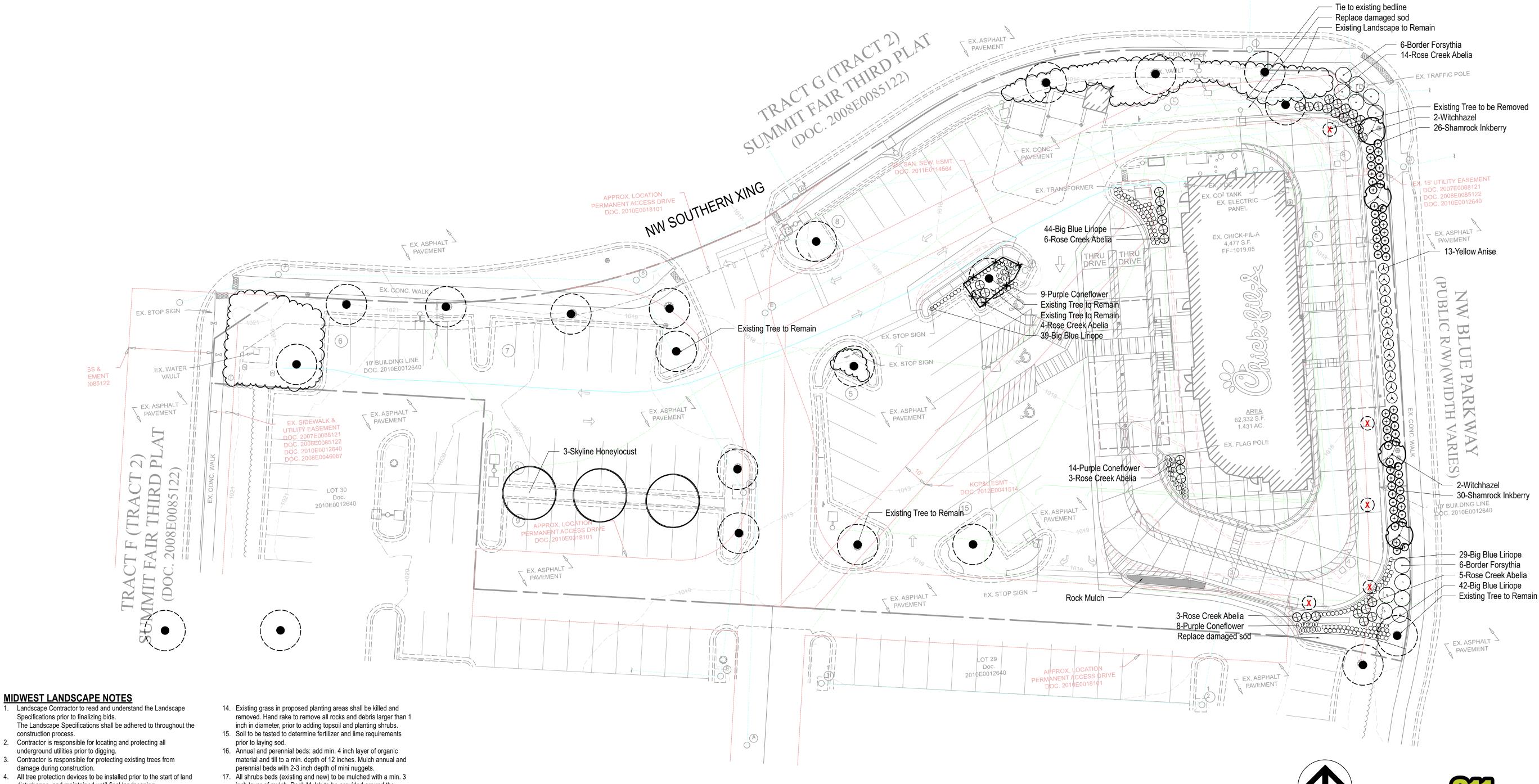
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REVISION SCHEDULE
NO. DATE

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UTILITY PLAN

PS-100



PLANT LIST

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.
- 2. Contractor is responsible for locating and protecting all underground utilities prior to digging.
- damage during construction.
- 4. All tree protection devices to be installed prior to the start of land disturbance, and maintained until final landscaping.
- 5. All tree protection areas to be protected from sedimentation. 6. All tree protection fencing to be inspected daily, and repaired or
- replaced as needed. 7. No parking, storage or other construction activities are to occur
- within tree protection areas.
- 8. All planting areas shall be cleaned of construction debris (ie. concrete, rock, rubble, building materials, etc) prior to adding and spreading of the topsoil.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. Any deviations from the approved set of plans are to be
- approved by the Landscape Architect.
- 13. 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.

- inch layer of mulch. Rock Mulch to be provided around the
- ball, for both shrub and tree. Set plant material 2-3" above finish
- be "V" trenched; see Landscape Details. 20. Any existing grass disturbed during construction to be fully be repaired.
- 21. Water thoroughly twice in first 24 hours and apply mulch immediately.
- one full year from date of acceptance by the owner. All plants guarantee period. The Landscape Contractor shall not be responsible for acts of God or vandalism. See Landscape Specifications for Warranty requirements/expectations.
- 23. 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. 24. Site to be 100% irrigated in all planting beds and grass area by
- irrigation install completion.
- 25. Stake all evergreen and deciduous trees as shown in the planting detail and as per the Landscape Specifications.
- 26. Remove stakes and guying from all trees after one year from

- building as shown and called out on the landscape plan, all other planting beds are to be mulched with double shredded hardwood
- 18. Planting holes to be dug a minimum of twice the width of the root
- grade. Backfill planting pit with topsoil and native excavated soil. 19. 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
- removed, regraded and replaced. All tire marks and indentions to
- 22. The Landscape Contractor shall guarantee all plants installed for shall be alive and at a vigorous rate of growth at the end of the
- an automatic underground Irrigation System. Irrigation as-built shall be provided to the Landscape Architect within 24 hours of

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

456 LF / 20 LF x 1 shrub 23 shrubs required **PROVIDED** 1. NW Blue Pkwy: 3 tree existing, 4 witchhazel 7 street trees provided 69 shrubs provided

10 street trees existing

= 2,500 SF of landscape area provided

= 23 shrubs existing

56 inkberry, 13 anise NW Southern Xing: 10 tree existing 23 shrubs existing

B. INTERIOR LANDSCAPING **REQUIRED** 1. (1) tree and (2) shrubs per 5,000 SF of area excluding building footprin (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 23 shrubs existing = 23 shrubs existing

C. PARKING LANDSCAPE

PROVIDED 1. Landscape area

REQUIRED 1. 5% of parking area to be landscape area 40,449 SF x 5% = 2,022 SF of landscape area required

Qty	Botanical Name	Common Name	Scheduled Size	Remarks
	Trees			
3	Gleditsia triacanthos inermis 'Skyline'	Skyline Honeylocust	3" Cal; 12' Hgt.	B & B
4	Hamamelis virginiana	Witchhazel	6-8' Hgt	Specimen
	Shrubs			
35	Abelia x chinensis 'Rose Creek'	Rose Creek Abelia	3 Gal.	
12	Forsythia x intermedia	Border Forsythia	3 Gal.	
56	llex glabra 'Shamrock'	Shamrock Inkberry	3 Gal.	
13	Illicium parviflorum	Yellow Anise	3 Gal.	
	Groundcovers			
31	Echinacea purpurea	Purple Coneflower	1 Gal.	Plant 24" O.C.
154	Liriope muscari 'Big Blue'	Big Blue Liriope	1 Gal.	Plant 18" O.C.
	Other			
73	Rock Mulch	Rock Mulch	SF.	See Specifications

IRRIGATION SYSTEM RETROFIT

1. Existing irrigation system shall be retrofitted to include 100% cover to all newly created landscaped areas.

2. Sprays and rotors shall be utilized on all sod and seedded areas. 3. Drip irrigation shall be utilized on all planting beds, shrubs, trees, and groundcover. 4. The Contractor shall be responsible to ensure new and existing irrigation components, and the system as a whole, are in proper working order.

Call before you dig.

- 5. Add valves, sprays, rotors, drip, and/or replace zones as needed to achieve proper coverage as required.
- 6. Only RainBird products shall be utilized 7. Mainline shall be 1.5" CLS 200 PVC 8. Lateral lines shall be 1" CLS 200 PVC
- 9. Rain / freeze sensor shall be installed 10. Prior to final completion, the Irrigation Contractor shall perform a walk-thru inspection with the Owner, or Owners Representative.

Chick-fil-A 5200 Buffington Road



Atlanta, Georgia 30349-2998





FSU# 02859

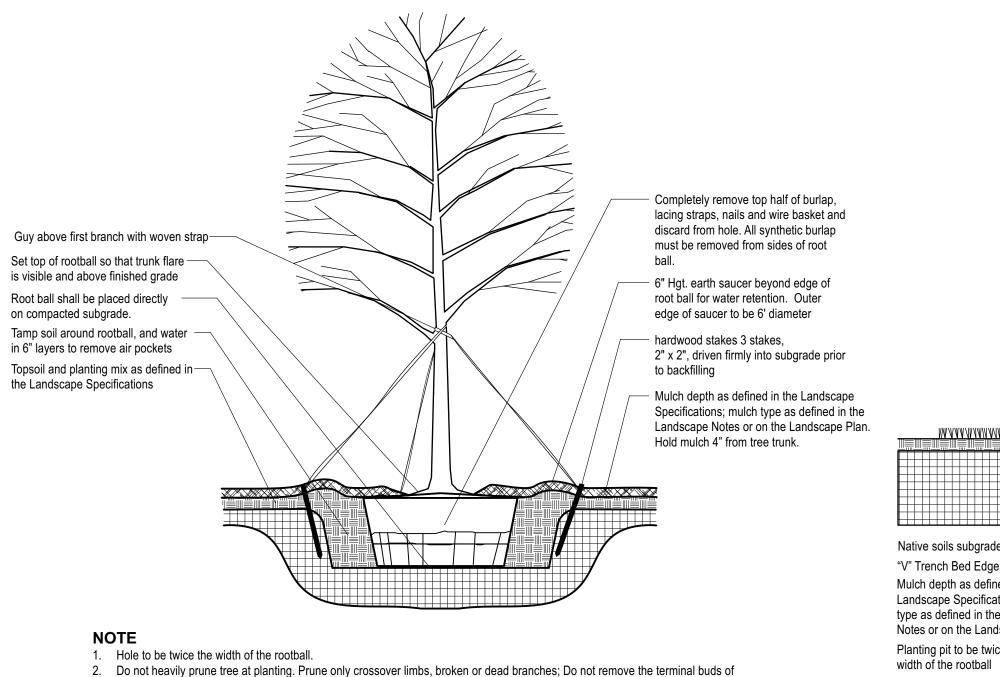
REVISION SCHEDULE NO. DATE BY DESCRIPTION
1 12/22/23 1 LANDSCAPE COMMENTS

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

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Landscape Plan

SHEET NUMBER



3. Each tree must be planted such that the trunk flare is visible at the top of the rootball. Trees where the trunk flare is not visible shall

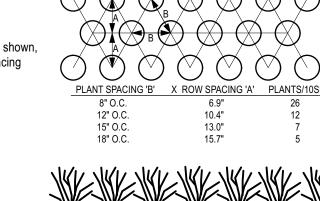
be rejected. Do not cover the top of the rootball with soil. Mulch to be held back 4" away from trunk.

Native soils subgrade -/ "V" Trench Bed Edge ----Mulch depth as defined in the Landscape Specifications; mulch type as defined in the Landscape Notes or on the Landscape Plan Planting pit to be twice the

Varies

As shown

A = Row Spacing B = On Center Spacing Space plants in a triangular pattern as shown, spaced equally from each other at spacing indicated on the plant list

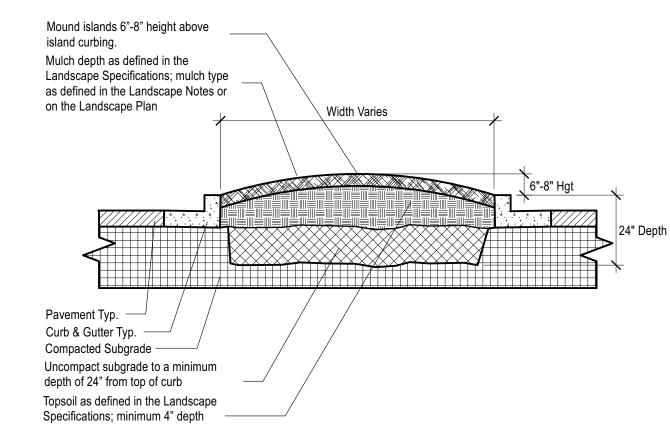


Mulch depth as defined in the Landscape Specifications; mulch type as defined in the Landscape Notes or on the Landscape Plan. Topsoil as defined in the

Landscape Specifications Native soils subgrade -

1. Space groundcover plants in accordance with indicated spacing listed on the plant list, or as shown on

- the landscape plan. 2. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants.
- 3. Plant to within 24" of the trunks of trees and shrubs within planting bed and to within 18" of edge of bed.



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

4. Remove Guy Wires and Staking when warranty period has expired (after one year).

TREE PLANTING & STAKING

SCALE: NTS

branches that extend to the edge of the crown.



GROUNDCOVER PLANTING DETAIL

Topsoil as defined in the

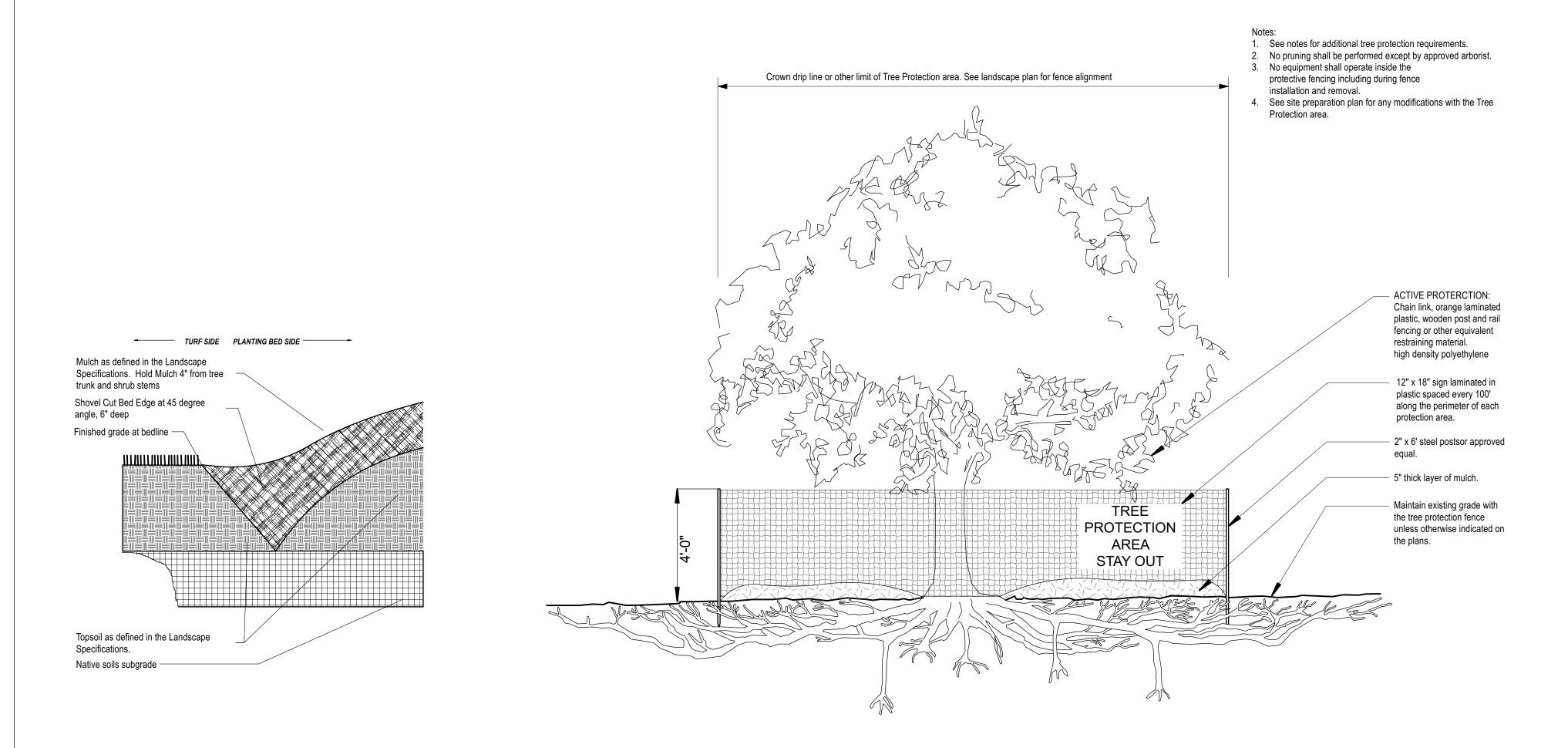
Landscape Specifications

and native excavated soil

—Shrubs; type and size as

defined on the plant list

Backfill planting pits with topsoil



"V" TRENCH BED EDGING SCALE: NTS





5200 Buffington Road

Atlanta, Georgia 30349-2998

LAND DESIGN

Landscape Architecture

Manley Land Design, Inc.

51 Old Canton Street

Alpharetta, Georgia 30009

770.442.8171 tel

FSU# 02859

REVISION SCHEDULE

NO. DATE BY DESCRIPTION

MLD PROJECT # 2023216 PRINTED FOR PERMIT 8/22/23

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Landscape Details

L-101

LANDSCAPE SPECIFICATIONS

PART 1 - GENERAL

DESCRIPTION

Provide trees, shrubs, ground covers, sod, and annuals/perennials as shown and specified on the

- landscape plan. The work includes: Soil preparation
- 2. Trees, shrubs, ground covers, and annuals/perennials.
- Planting mixes 4. Top Soil, Mulch and Planting accessories.
- Maintenance.

Decorative stone.

Related Work: Irrigation System

QUALITY ASSURANCE

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

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

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

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

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

DELIVER, STORAGE AND HANDLING

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

PROJECT CONDITIONS

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

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

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

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

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

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

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
- 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 branched 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
- 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
- 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
- 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.

all rock mulch areas. Use caution during installation not to damage plant material. 4. Mini Nuggets: Install to a minimum depth of 2"-3" at all locations of annual and perennial beds. Lift the stems and leaves of the annuals and carefully spread the mulch to avoid injuring the plants. Gently brush the mulch off the plants.

Install in shrub beds to an even depth of 3". Weed control barrier to be installed under

Guying/Staking:

Arbortie: Green (or white) staking and guying material to be flat, woven, polypropylene material, 3/4" wide 900 lb. break strength. Arbortie 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

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

PREPARATION

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

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

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

INSTALLATION

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

After balled and wrapped in burlap plants are set, muddle planting soil mixture around bases of balls and fill all voids. 1. Remove all burlap, ropes, and wires from the top 1/3 of the root ball

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

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:

- Inspect trees for injury to trunks, evidence of insect infestation, and improper pruning
- 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
- d. Tree wraps are temporary and no longer needed once the trees develop corky bark. 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
- 4. Remove all guying and staking after one year from planting.

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

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

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.

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

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
Soluble salts/	Not to exceed 900ppm/1.9 mmhos/cm	Not to exceed 750ppm/0.75 mmhos/cm
Conductivity	in soil; not to exceed 1400 ppm/2.5	in soil; not to exceed 2000 ppm/2.0

For unusual soil conditions, the following optional tests are recommended with levels not to exceed 3 pounds per acre 50 pounds per acre Manganese Potassium (K2O) 450 pounds per acre 20 pounds per acre

mmhos/cm in high organic mix

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

maintenance contractor, shall be repaired by the maintenance contractor without charge to the

Any damage to the landscape, the structure, or the irrigation system caused by the

TURF

GENERAL CLEAN UP

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

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

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

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

Edging 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

Inspection and treatment to control insect pests shall be included in the contract price. TREES, SHRUBS, & GROUND COVER

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.

and viburnums.

- 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

- 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 5. Broadleaf evergreen shrubs shall be hand-pruned to maintain their natural appearance
- after the new growth hardens off. 6. Hedges or shrubs that require shearing to maintain a formal appearance shall be pruned as required. Dead wood shall be removed from sheared plants before the first shearing of the season

A. Yews, junipers, hemlocks, arborvitae, and false-cypress may be pruned after

7. Conifers shall be pruned, if required, according to their genus.

- new growth has hardened off in late summer. If severe pruning is necessary, it must B. Firs and spruces may be lightly pruned in late summer, fall, or winter after completing growth. Leave side buds. Never cut central leader.
- C. Pines may be lightly pruned in early June by reducing candles. 8. Groundcover shall be edged and pruned as needed to contain it within its borders.

9. Thinning: Remove branches and water sprouts by cutting them back to their point of origin on parent stems. This method results in a more open plant, without stimulating

excessive growth. Thinning is used on crepe myrtle, lilacs, viburnums, smoke bush,etc. 10. Renewal pruning: Remove oldest branches of shrub at ground, leaving the younger, more vigorous branches. Also remove weak stems. On overgrown plants, this method may be best done over a three-year period. Renewal pruning may be used on abelia, forsythia, deutzia, spiraea, etc.

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

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

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

SPRING CLEANUP

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.

through winter, e.g. ornamental grasses, Sedum Autumn Joy.

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

SUMMARY OF MAINTENANCE with 10-6-4 analysis fertilizer at the rate of 3 pounds per 100 square feet of bed area. Ericaceous 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.

All beds shall be weeded on a continuous basis throughout the growing season to maintain a

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 plan 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*

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

TRASH REMOVAL

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

and Shrubs by Sinclair and Lyon, published by Comstock Publishing Press.

WINTER CLEAN-UP The project shall receive a general clean-up once during each of the winter months, i.e.,

BULBS

- Clean-up includes: Cleaning curbs and parking areas
- Removing all trash and unwanted debris Turning mulch where necessary

perform supplemental leaf removals.

January, February, and March.

Inspection of grounds SEASONAL COLOR: PERENNIALS, ANNUALS, AND

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. 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

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.
- Summer Annuals or Fall Plants a. Dead heading: Pinch and remove dead flowers on annuals as necessary.

20-20-20 water-soluble fertilizers, not to exceed 2 pounds of 20-20-20 per 100

gallons of water, monthly; or mulch with compost 1" deep.

with a bulb fertilizer or mulching with 1" of compost is optional.

- 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
 - 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.

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.

- a. Fertilize perennials with a slow-release fertilizer or any 50% organic fertilizer, or
- mulch perennials with compost 1" deep.
- b. Cut all deciduous perennials flush to the ground by March 1, if this was not done the
- previous fall, to allow new growth to develop freely.
- c. Mulch the perennial bed once in early spring at 1"-2" depth. If soil is bared in late
- fall, re-mulch lightly after ground is frozen to protect perennials.
- d. Inspect for insect or disease problems on perennials. Monitor and control slugs on hostas and ligularias. Powdery mildew on phlox, monardas, and asters can be
- prevented with properly timed fungicides or use of disease-resistant varieties.
- e. Weed perennial bed as specified in "WEEDING" above. f. Prune branching species to increase density. Cut only the flowering stems after
- blooming. Do not remove the foliage. 3. The following fall cut back deteriorating plant parts unless instructed to retain for winter interest, e.g. Sedum Autumn Joy and ornamental grasses.
- 4. Long-term Care: a. Divide plants that overcrowd the space provided. Divide according to the species. Some need frequent dividing, e.g. asters and yarrow every two years; other rarely, if
- ever, e.g. peonies, hosta, and astilbe. b. For detailed information regarding the care of specific perennials, refer to All About Perennials by Ortho; Perennials: How to Select, Grow and Enjoy by Pamela Harper and Frederick McGouty, Hp Books Publisher; Herbaceous Perennial Plants: A Treatise on their Identification, Culture and Garden Attributes by Allan Armitage, Stipes Pub LLC.

- 1. Soil analysis performed annually to determine pH. If pH does not fall within specified
- range, adjust according to soil test recommendations. 2. Maintain proper fertility and pH levels of the soil to provide an environment conducive to
- turf vitality for cool season grasses 3. Mow warm and cool season on a regular basis and as season and weather dictates. Remove no more than the top 1/3 of leaf blade. Clippings on paved and bed areas will
- be removed 4. Aerate warm season turf areas to maintain high standards of turf appearance.
- 5. Apply pre-emergent to turf in two applications in early February and early April to extend

runners to maintain clean defined beds.

6. Apply post emergent as needed to control weeds. 7. Mechanically edge curbs and walks. 8. Apply non-selective herbicide, to mulched bed areas and pavement and remove excess

TREE, GROUNDCOVER, AND SHRUB BED MAINTENANCE

- 1. Prune shrubs, trees and groundcover to encourage healthy growth and create a natural appearance. Mulch to be applied in February/March with a half rate in late summer to top dress.
- Apply pre-emergent herbicides in February and April. 4. Manual weed control to maintain clean bed appearance. 5. Apply fungicides and insecticides as needed to control insects and disease.

a balanced material (January/February, April/May, and October/November)

6. Ornamental shrubs, trees and groundcovers to be fertilized three (3) times per year with

7. Edge all mulched beds. 8. Remove all litter and debris.

GENERAL MAINTENANCE 1. Remove all man-made debris, blow edges. 2. Inspect grounds on a monthly basis and schedule inspection with Unit Operator.



LAND DESIGN

Landscape Architecture

Manley Land Design, Inc.

51 Old Canton Street

Alpharetta, Georgia 30009

770.442.8171 tel

FSU# 02859

REVISION SCHEDULE

NO. DATE BY DESCRIPTION

MLD PROJECT # 2023216 PRINTED FOR PERMIT 8/22/23

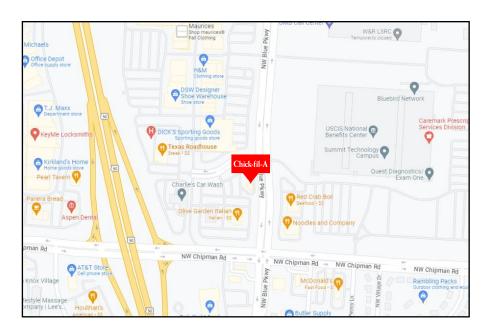
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Landscape & Maintenance Specifications

authorized project representatives.

DRAWN BY



VICINITY MAP

N.T.S.



AERIAL VIEW

NORTH N.T.S.

KRISTEN HAMILTON - 678-725-8852 KHamilton@chandlersigns.com TERRI BROWN - 682-204-6687 TBrown@chandlersigns.com

Design # 0637033Ar2

Sheet 1 of 27

#2859

Address

690 NW Blue Pkwy, Lees Summit, MO

Account Rep. KRISTEN HAMILTON

Designer LEAH LANSFORD

Date 9/29/23

Client Sales Estimating

Engineering Landlord

Revision/Date

11(12-22-23)LL: CHANGED SIZE OF PANELS ON THE TOP/DNE

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

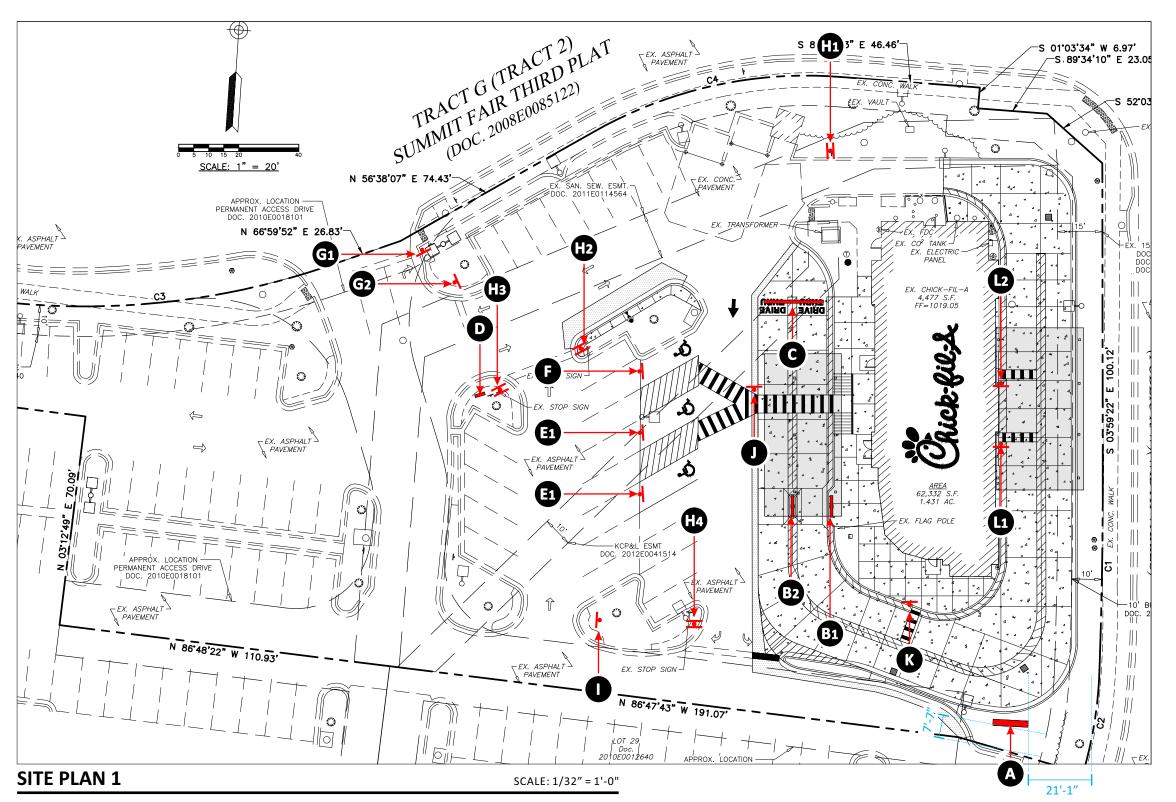


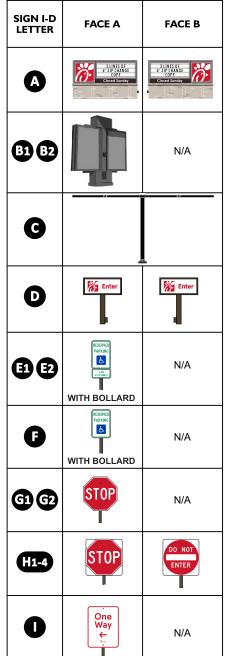
FINAL ELECTRICAL CONNECTION BY CUSTOMER





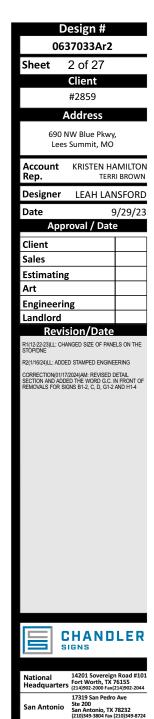






PORTABLE BASES

SIGN I-D LETTER	FACE A	FACE B
•	PEDESTRIAN CROSSING	N/A
8	WATCH FOR VEHICLES	N/A
G	CAUTION TEAM MEMBER CROSSING	N/A



2301 River Road Ste 2 Northeast US Louisville, KY 40206 (502) 897-9800 Cell (502) 5

Georgia

PO BOX 125 206 Doral Driv POTtland, TX 78374 (361) 563-5599 Fax (361) 643-653

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FINAL ELECTRICAL CONNECTION BY CUSTOMER







D/F MONUMENT ONE (1) REMOVAL REQUIRED - MANUFACTURE AND INSTALL

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

60 SQ. FT.

CSI TO REMOVE AND DISCARD EXISTING MONUMENT CABINET.

G.C. TO REMOVE AND DISCARD BASE.

NEW DESIGN PENDING LANDLORD APPROVAL



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

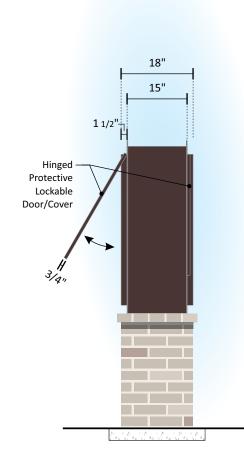
ONE (1) 4 1/2" O.D. x .237" WALL STEEL SUPPORT ONE (1) 24" x 5'-0" DEEP CONCRETE PIER.

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



9/29/23



CONNECTION BY





Page 1 of 3 Page 2 of 3



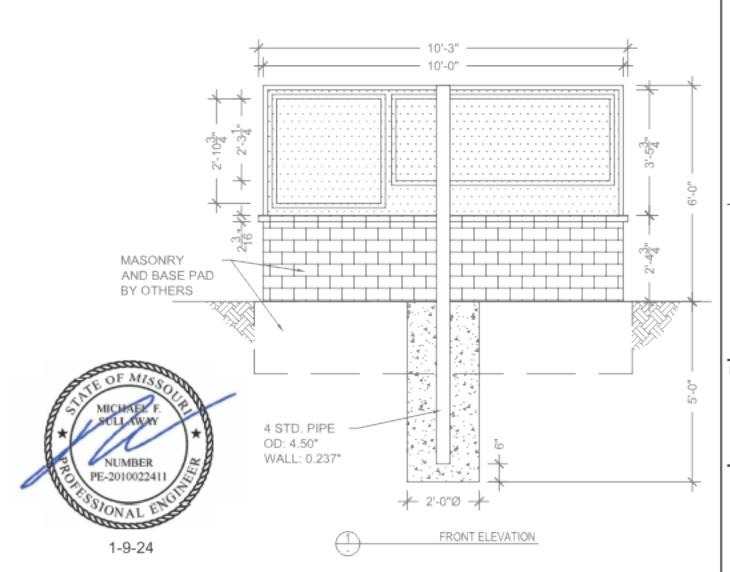
11545 W. BERNARDO COURT SUITE 201, SAN DIEGO, CA 92127 PROJECTMANAGER@SULLAWAYENG.COM

PHONE: 1-858-312-5150 FAX: 1-858-777-3534 1-9-2024 DATE:

JD

PROJECT #: ENGINEER: LAST REVISED: CLIENT: CHANDLER SIGNS

CHICK-FIL-A - MONUMENT SIGN - 690 NW BLUE PKWY, LEES SUMMIT, MO



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



PROJ. NO.: 43787A

PROJECT: CHICK-FIL-A 2859

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

DATE: 1/9/24 ENGINEER: JD

Account KRISTEN HAMILTON

Designer LEAH LANSFORD

Design #

0637033Ar2

Client

#2859

Address

690 NW Blue Pkwy,

Lees Summit, MO

Sheet 4 of 27

Date 9/29/23

Client Sales Estimating Engineering Landlord

Revision/Date 1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE TOP/DNE

(1/16/24)LL: ADDED STAMPED ENGINEERING ORRECTION(01/17/2024)AM: REVISED DETAIL ECTION AND ADDED THE WORD G.C. IN FRONT O EMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4

Applied Wind Loads; from ASCE 7-16 $F=q_z*G*C_f*A_f$ with $q_2 = 0.00256K_2K_3K_4V^2$ (29.3.2 & 29.4) C_f= 1.417 (Fig. 29.3-1) 1.0 (26.8.2) (=1.0 unless unusual landscape) K_z = from table 28.3-1 Exposure= c 0.85 for signs (table 26.6-1) 110 mph G= 0.85 (26.9)0.600 1.000 s/h= 0.00 k-ft B/s=1.67 Pole height at pressure Wind structure Loads section c.g. K_x q_z $q_r * G * C_r$ A_r Moment M_w component shear 1.1 0.850 22.4 26.95 22.1 597 660 50 2.3046875 0.850 22.4 26.95 1.9 116 4.19791667 0.850 971 4077 22.4 26.95 36.0 (M_w) k-ft arm= 3.0 4.85 60.0 1618 for s/h=1, add 10% (asce fig. 29.4-1): x 1.10 5.34 $P_{u} = 0.72$ kip 5.34 k-ft $M=sqrt(M_{DL}^2+M_w^2)$ $M_v = sqrt(1.2M_{DL}^2 + 1.0M_W^2) = 5.34$ k-ft Pole Design section; pipe $M_u \le \phi M_n$ with $M_n = f_v Z$ = 0.9t,= 35 ksi USE $M_u(k-ft)$ Size(in) Z reg'd. (in) t (in) Z 4 STD. PIPE, Mn= 10.6 k-ft 2.03 0.216 2.2 at grade 5.3 **Footing Design** footprint: round $\omega = 1.3$ IBC 1605.3.2 IBC Table 1806.2, sections 1806.3.4, 1807.3.2 S=(1.3x2x)P= 1.26 kip $S1 = S \times d/3$ $A = 2.34 \times P / (S1 \times b)$ S= 400 S1= 586 d =0.5xA (1+ (1+4.36x h/A) ^.5) IBC 1807.3.2.1

CHANDLER

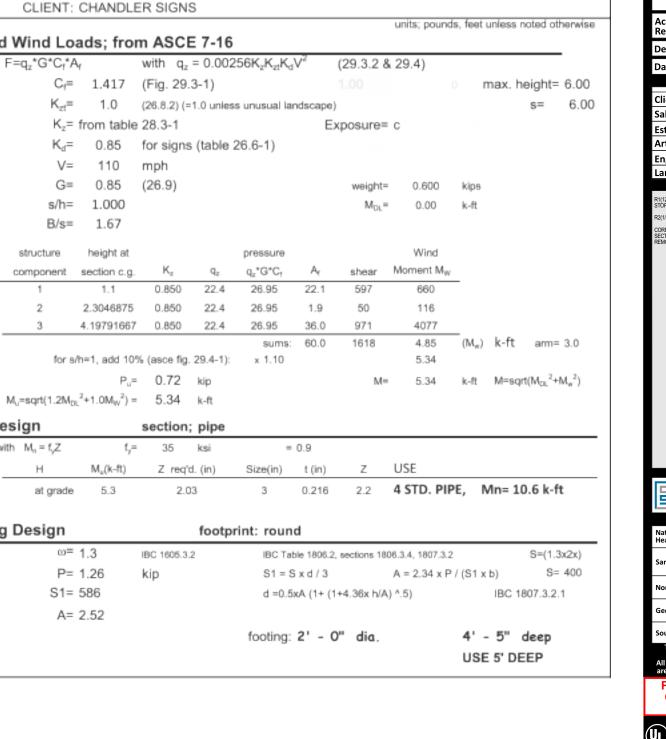
17319 San Pedro Ave Ste 200 San Antonio, TX 78232 (210)349-3804 Fax (210)349-

PO BOX 125 206 Doral Dri Portland, TX 78374

FINAL ELECTRICAL CONNECTION BY CUSTOMER









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

units; pounds, feet unless noted otherwise

Check Buckling for Round HSS Section

ole Design-AISC	•	section	; pipe	<=12"		weight=	0.6	kips			
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D/t= 2					h (L) =	= 6			P=		k
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4.71sqrt(E/f _v)= 1		ksi (E3-4)		use F _{cr} = 2		101 KL/1/S	qrt(⊏/1 _y)	1			
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for D/t < 0.31 E/l			act	$0.07 E/F_y = 0.31 E/F_v = 0.3$	257						
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ound Dina Tavai	use										
ound Pipe Torsi	on Cap	acity									
Pipe	D=	4.5	in								
	t=	0.22041	in	E=	29	x10e6	psi				
	L=	40	ft								
	J=	14									
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$T_n = F_{cr}C$				φ=	0.9			Α	JISC H3		
F _{cr} =1.23E / (sqr	t(L/D)(D/t)^^	1.25)		F _{cr} =	79.6	ksi	max;	$F_{cr} =$	188.6	ksi	
. (1	^1.5)			F _{cr} =	188.6	ksi					
F _{cr} =0.6E / ((D/t)				0.05	04	ksi		F _{cr} =	21.0	ksi	
				$0.6F_{y} =$	21	ROI					
F _{cr} =0.6E / ((D/t)	3.2	k-ft		0.6F _y =	21						
F_{cr} =0.6E / ((D/t) F_{cr} < 0.6 F_{y} Tu=	3.2 114	k-ft k-in		,	∠ı <-ft		(Τ _u /φΤ	· _n) ² = 0			

Design #
0637033Ar2

Sheet 5 of 27
Client

#2859 Address

690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON Rep. TERRI BROWN

Designer LEAH LANSFORD

2 4 5 4 5

Date 9/29/23

Approval / Date

Client	
Sales	
Estimating	
Art	
Engineering	
Landlord	

Revision/Date

11(12-22-23)LL: CHANGED SIZE OF PANELS ON THE TOP/DNE

R2(1/16/24)LL: ADDED STAMPED ENGINEERING

CORRECTION(01/17/2024)AM: REVISED DETAIL
SECTION AND ADDED THE WORD G.C. IN EPONT



Headquarters [2]

San Antonio S

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Georgia

(678) 725-8852 Fax (210) 3

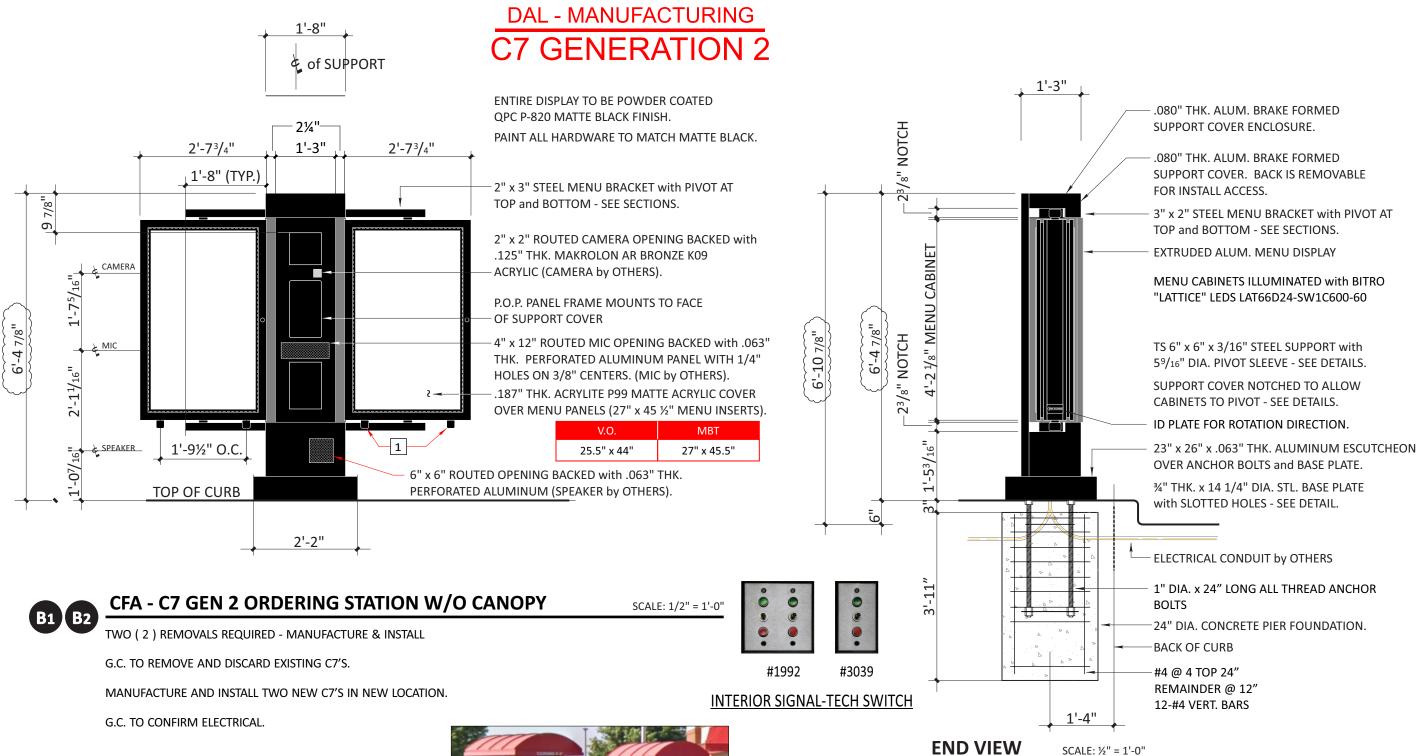
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Portland, TX 78374
(361) 563-5599 Fax (361) 6

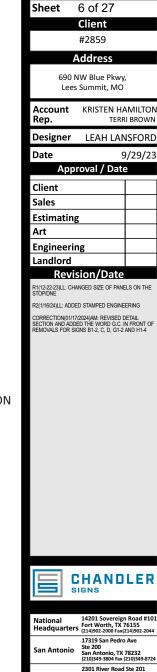
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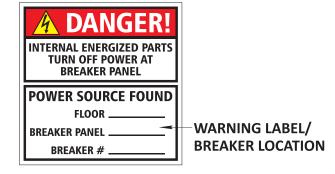


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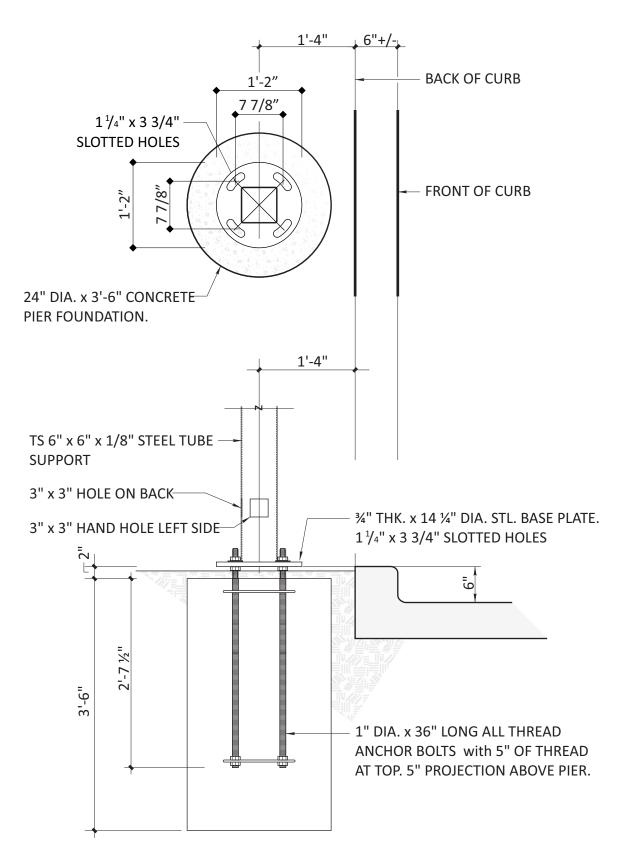


2014/2017 NEC **COMPLIANT LABEL**



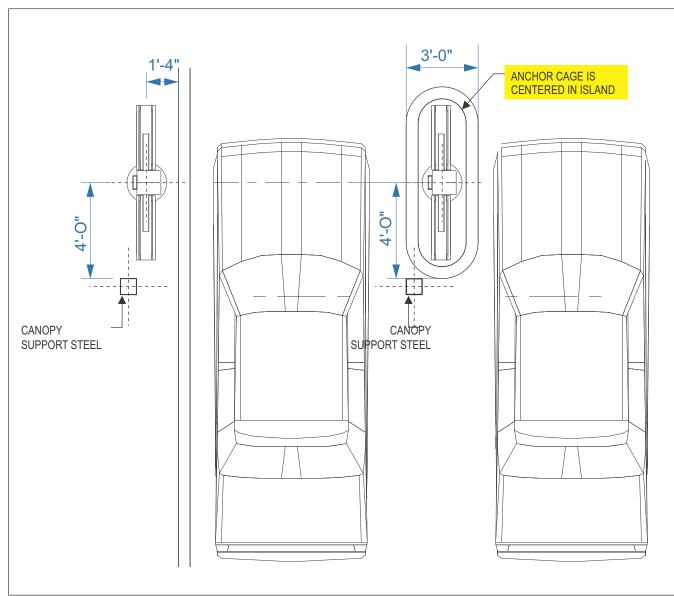


EXISTING CONDITIONS



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 BERING 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

Design #
0637033Ar2
Sheet 7 of 27
Client #2859
Address
690 NW Blue Pkwy, Lees Summit, MO
Account KRISTEN HAMILTON Rep. TERRI BROWN
Designer LEAH LANSFORD
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CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT OF KEMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4



San Antonio San Antonio San Antonio San Antonio San Antonio San Antonio, TX 78232 (210)349-3804 Fax (210)349-10 (201) San Antonio, TX 78232 (201)349-3804 Fax (210)349-3804 Fax (201)349-3800 (201) Sat-10 (201) Sat-10 (201)

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FINAL ELECTRICAL CONNECTION BY





Page 1 of 9 Page 2 of 9



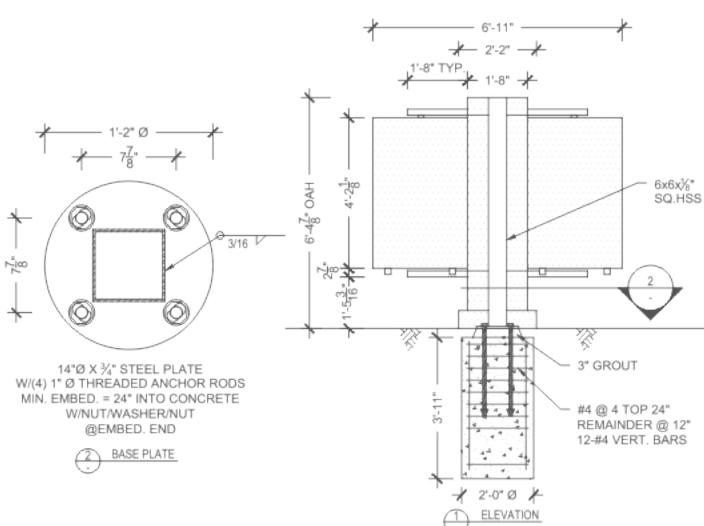
11545 W BERNARDO CT., SUITE 201 SAN DIEGO, CA 92127 PROJECTMANAGER@SULLAWAYENG.COM PHONE: 1-858-312-5150 FAX: 1-858-777-3534

CHICK-FIL-A, SIGN TYPE: CFA C7, 690 NW BLUE PKWY, LEE'S SUMMIT, MO

PROJECT #: 43787B CLIENT: CHANDLER SIGNS

PROJECT:

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



GENERAL NOTES

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



24" R @ 12" BARS

01-09-2024

SULLAWAY ENGINEERING

PROJECT: CHICK-FIL-A

PROJ. NO.: 43787B

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

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

CLIENT: CHANDLER SIGNS

units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16

a willia Load	40, II O	II AOOL 7-10			
$F=q_z*G*C_f*A_f$		with $q_z = 0.00256K_zK_{zt}K_dV^z$	(29.3.2 & 29	9.4)	
C _f =		(Fig. 29.3-1)			max. height= 6.7
K _{zt} =	1.0	(26.8.2) (=1.0 unless unusual landsca	ape)		
$K_z = fr$	om table	28.3-1	Exposure= c		
K _d =	0.85	for signs (table 26.6-1)			
V=	110	mph			
G=	0.85	(26.9)	weight=	0.341	kips
s/h=			M _{DL} =	0.00	k-ft
B/s=					

Pole	structure	height at			pressure			Wind				
Loads	component	section c.g.	K_z	q_z	$q_z^*G^*C_f$	\mathbb{A}_{γ}	shear	Moment M_{W}				
	1	0.13	0.850	22.4	31.45	0.0	0	0				
	2	0.50	0.850	22.4	31.45	1.1	34	17				
	3	1.22	0.850	22.4	31.45	1.6	49	59				
	4	1.77	0.850	22.4	31.45	8.0	26	46				
	5	1.89	0.850	22.4	31.45	0.2	6	12				
	6	4.01	0.850	22.4	31.45	28.9	909	3644				
	7	6.14	0.850	22.4	31.45	0.2	5	30				
	8	6.26	0.850	22.38	31.45	8.0	26	164				
	9	6.50	0.850	22.38	31.45	0.5	17	108	_			
					sums:	34.1	1072	4.08	(M_w)	k-ft	arm= 3	.8

 $P_{_{U}}$ = 0.41 kip M= 4.08 k-ft M=sqrt(M_{DL}^2 + M_w^2) M_{_{_{1}}=sqrt(1.2M_{DL}^2+1.0M_{W}^2) = 4.08 k-ft

Pole Design section; tube

$M_w \le \phi M_n$ w	ith $M_n = f_y Z$	f _y =	46 ksi	%√	= 0.9		
	Н	M _u (k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at	3" below grade	4.08	1.18	2.5	0.188	1.3	6x6x1/8" SQ.HSS,

Footing Design footprint: round

o= 1.3	IBC 1605.3.2	IBC Table 1808.2, sections 180	6.3.4, 1807.3.2	S=(1.3x2x150 psf/ft)
P= 0.84	kip	$S1 = S \times d / 3$	A = 2.34 x P / (S1 x t	s= 400
S1= 519		d =0.5xA (1+ (1+4.36x h/A)	^.5)	IBC 1807.3.2.1
A= 1.88				
	4			4.411

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

Design # 0637033Ar2

Sheet 8 of 27

Client
#2859

Address

690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON

Designer LEAH LANSFORD

Data 0/20/

Date 9/29/23

Approval	/	Date	•

Client	
Sales	
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Engineering	

Revision/Date 11(12-22-23)LL: CHANGED SIZE OF PANELS ON THE 1TOPIONE

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R2(1/16/24)LL: ADDED STAMPED ENGINEERING

CORRECTION(01/17/2024)AM: REVISED DETAIL

SECTION AND ADDED THE WORD G.C. IN FRONT C

REMOVALS FOR SIGNS 81-2, C, D, G1-2 AND H1-4



| National | Fort Worth, TX 76155 |
| Headquarters | C14|902-2000 Fax(214)902 |
| 17319 San Pedro Ave Ste 200 |
| San Antonio | San Antonio, TX 78232 |
| (210)349-3804 Fax (210)349 |
| 2301 | Pluer Poad Sta 201

Northeast US 2301 River Road Ste 201 Louisville, KY 40206 (502) 897-9800 Cell (502) 554-257:

Georgia Dawsonville, GA 30534 (678) 725-8852 Fax (210) 349-87.

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South Texas Portland, TX 78374
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FINAL ELECTRICAL CONNECTION BY







B1-2

Page 3 of 9



10815 Rancho Bernardo RD., SD, CA 92127 projectmanager@sullawayeng.com

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

PROJECT: CHICK-FIL-A DATE: 1/9/24 PROJ. NO.: 43787B ENGINEER: SB/TH(IH) CLIENT: CHANDLER SIGNS

units; pounds, feet unless noted otherwise

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

1.0875 in b = 10.05 in 0.75 in arm = 5.883 k-in (T= 5.410k per Simpson) Mplate = Z= bt^2/4= 1.413 in³ $\phi Mn =$ $\%\sqrt{Fy^*Z} = 0.9*36ksi^*Z = 45.790 \text{ k-in}$ OK

Anchor Designer™ Software Version 3.2.2309.2

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

1.Project information

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

2. Input Data & Anchor Parameters

General

Design method:ACI 318-19 Units: Imperial units

Anchor Information:

Anchor type: Cast-in-place Material: AB

Recommended Anchor

Diameter (inch): 1.000

Effective Embedment depth, har (inch): 24.000

Anchor category: -Anchor ductility: Yes h_{min} (inch): 26.63 Cmin (inch): 6.00 S_{min} (inch): 6.00

Fastening description:

Project description:

Location

Page 4 of 9

Base Material

Concrete: Normal-weight Concrete thickness, h (inch): 47.00

State: Cracked

Compressive strength, f'c (psi): 2500

) c.v: 1.0

Reinforcement condition: Supplementary reinforcement not present

Supplemental edge reinforcement: Not applicable

Reinforcement provided at corners: No Ignore concrete breakout in tension: No Ignore concrete breakout in shear: No

Ignore 6do requirement: No Build-up grout pad: No

Base Plate

Diameter x Thickness (inch): 14.00 x 0.75

Yield stress: 36000 psi

Profile type/size: HSS6X6X1/8

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

Design # 0637033Ar2

Sheet 9 of 27 Client #2859

Address

690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON

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

2(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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Ste 200
San Antonio San Antonio, TX 78232
(210)349-3804 Fax (210)349-8724

2301 River Road Ste 201 Northeast US Louisville, KY 40206 (502) 897-9800 Cell (502) 554-2575

111 Woodstone Place Dawsonville, GA 30534 (678) 725-8852 Fax (210) 349-872 PO BOX 125 206 Doral Drive Portland, TX 78374 (361) 563-5599 Fax (361) 643-6533

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FINAL ELECTRICAL CONNECTION BY CUSTOMER





B1-2

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

•	
•	
	Anchor Designer™
	/ allorior Doolgilor
	Software
	Soltware
	Version 3.2.2309.2

		of	

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

Load and Geometry

Load factor source: ACI 318 Section 5.3

Load combination: not set Seismic design: No

Anchors subjected to sustained tension: Not applicable

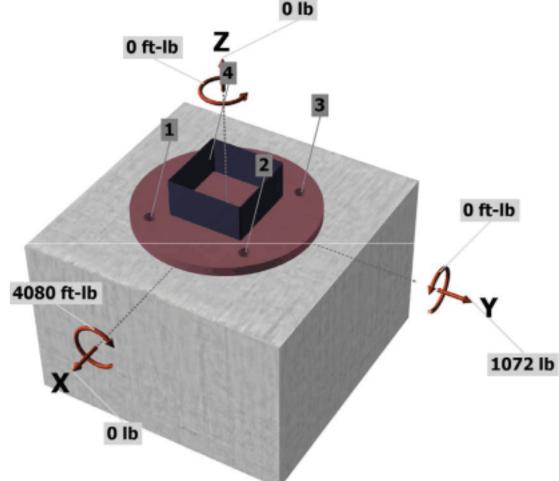
Apply entire shear load at front row: No

Anchors only resisting wind and/or seismic loads: No

Strength level loads:

N₁₀ [lb]: 0 V₁₀₀ [lb]: 0 V₁₀₀ [lb]: 1072 M₁₀ [ft-lb]: -4080 M₁₀ [ft-lb]: 0 M₁₀ [ft-lb]: 0

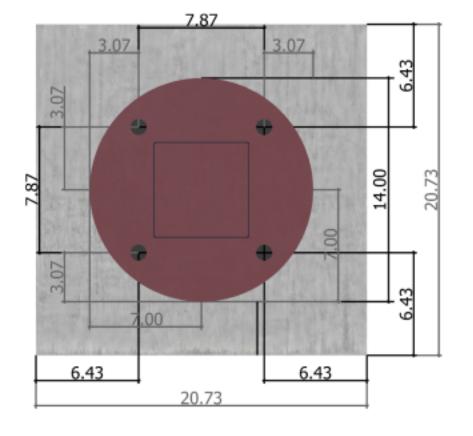
<Figure 1>



Page 6 of 9

	Anchor Designer™	Company:	Date:	1/9/2024
	- C	Engineer:	Page:	3/6
	Software	Project:		
	Version 3.2.2309.2	Address:		
		Phone:		
		E-mail:		

<Figure 2>



Design # 0637033Ar2

Sheet 10 of 27 Client

#2859 Address

690 NW Blue Pkwy,

Lees Summit, MO

Account KRISTEN HAMILTON
Ren TERRI BROWN

B :

Designer LEAH LANSFORD

Date 9/29/23

Approval / Date

Client Sales

Estimating
Art
Engineering
Landlord

Revision/Date

11(12-22-23)LL: CHANGED SIZE OF PANELS ON THE TOP/IDNE 12(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



vational Fort Worth, TX 76155 [214]902-2004 [214]902-2004 [214]902-2004 [214]902-2004 [215] [215

2301 River Road Ste 201 Louisville, KY 40206 (502) 897-9800 Cell (502) 554-2575

Georgia 1

a Dawsonville, GA 30534 (678) 725-8852 Fax (210) 349-8724 PO BOX 125 206 Doral Driv Fexas Portland, TX 78374 (361) 563-5599 Fax (361) 643-6533

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FINAL ELECTRICAL CONNECTION BY CUSTOMER





Anchor Designer™ Software Version 3.2.2309.2

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

3. Resulting Anchor Forces

Anchor	Tension load, N _{un} (lb)	Shear load x, V _{usx} (lb)	Shear load y, V _{ery} (lb)	Shear load combined, √(V _{LBN}) ² +(V _{LBN}) ² (lb)
1	2704.5	0.0	268.0	268.0
2	0.0	0.0	268.0	268.0
3	0.0	0.0	268.0	268.0
4	2704.5	0.0	268.0	268.0
Sum	5409.0	0.0	1072.0	1072.0

Page 7 of 9

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'Nx (inch): 0.00 Eccentricity of resultant tension forces in y-axis, e'Ny (inch): 0.00

Eccentricity of resultant shear forces in x-axis, e'vx (inch): 0.00 Eccentricity of resultant shear forces in y-axis, e'vy (inch): 0.00

<Figure 3>

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

Nov (lib)	<i>:</i> :	∴N _m (lb)	
35150	0.75	26363	-

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

 $N_b = 16 : A f' c h_0 f^{(1)}$ (Eq. 17.6.2.2.1)

		. (-4								
.:		r̃c (psi)	h _{ef} (in)	N₂ (Ib)						
1	1.00	2500	9.533	34290						
::1	$V_{cbg} = A_{Nc} / $	/ Anco) 2000, N 200	ENTTON TOWNS (Sec. 17.5.1.2	& Eq. 17.6	.2.1a)				
/	A _№ (in ²)	$A_{N\infty}$ (in ²)	Carele (in)	Kee,M	K wat N		Con. N	N₀ (lb)	#	::Nebg (lb)
4	129.73	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)

$N_{po} = \mathcal{N}_{e,p}N_p$	= jyrop8Abgfo (S	Sec. 17.5.1.2,	Eq. 17.6.3.1 & 17	7.6.3.2.2a)
	A _{bry} (in²)	f'∈ (psi)	ê	-M _{prr} (llb)
4.0	E 15	2600	0.70	7245E

Anchor Designer™ Software Version 3.2.2309.2

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

7. Side-Face Blowout Strength of Anchor in Tension (Sec. 17.6.4)

$M_{sbg} = A$	(1+ce2/cer)/4}(1+	s/6c _{e1})N _{ab} = :: (1	+ce2/ce1)/4}(1+s/	6ce1)(160ce1	$A_{\text{dry}}) \vdash f_c$ (Sec. 17	.5.1.2, Eq. 17	.6.4.1 & 17.6.4.2)
s (in)	c _{erf} (in)	a _{e2} (in)	A_{leg} (in ²)	ile.	f'_{ε} (psi)	į.	N _{shg} (lb)
7.87	6.43	6.43	5.15	1.00	2500	0.70	49211

Page 8 of 9

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

V₂e (lb)	Egrout	#	gword Vs≠ (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:

$V_{by} = min[7($	l _e / d _a) ^{0.2} d _{a.Ea} · f	Cot 1.5; 9.1a Foo	ar ^{1.5} (Eq. 17.7.2	.2.1a & Eq. 17.	7.2.2.1b)			
I _e (iin)	d» (iin)	.ia	f'c (psi)	c _{ef} (in)	V _{by} (lb)			
8.00	1.000	1.00	2500	14.30	24334			
$\alpha V_{cbgy} = \alpha (A$	lvc/Avoo) 70c,v7	ed, v + c, v + h, v V by I	(Sec. 17.5.1.2 &	Eq. 17.7.2.1b)				
A_{Vr} (in ²)	A_{Voo} (in^2)	Z'ec.V	< eq.V	₹ a, V	Th.V	V_{hy} (lb)	#	·Votgy (lb)
444.66	920.21	1.000	0.790	1.000	1.000	24334	0.70	6502

Shear parallel to edge in x-direction:

$V_{ty} = min[7(a)$	l=/d=) ^{0.2} \d=:=\f	"cG#1 ⁵ ; 9.Ex\f'cG	(Eq. 17.7.2)	.2.1a & Eq. 17.7	7.2.2.1b)			
l= (in)	d_{π} (in)	.ia	f'c (psi)	Carl (in)	V _{by} (lb)			
8.00	1.000	1.00	2500	6.43	7337			
$eV_{\rm objec} = e (2)$)(Ave/Aveo) Tec	งสาธงสองสธงไ	/ _{by} (Sec. 17.5.1.2	, 17.7.2.1(c) &	Eq. 17.7.2.1b)			
A_{Vr} (in ²)	A_{Voo} (in ²)	Yes.V	Test V	74.V	7h, V	V _{hy} (lb)	ŕ	::Votes (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)

$gV_{cys} = gk$	$c_{cp}N_{chy} = c_{cp}(A_{Nc})$	/Anco) Tech Te	KN TEN TOENN	(Sec. 17.5.1.2	& Eq. 17.7.3.	1b)			
	A_{Nv} (in ²)	A_{Nso} (in ²)	$\sigma c, N$	ed/V	C.W	Cop.W	No (lb)	#	∴V _{GFF} (IIb)
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, Nue (lb)	Design Strength, øNn (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, Vus (lb)	Design Strength, øV₁ (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)

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

Design # 0637033Ar2

Sheet 11 of 27

#2859 Address

690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON

Designer LEAH LANSFORD

9/29/23

Date

Approval / Date

Client Sales Estimating

Engineering Landlord

Revision/Date 11(12-22-23)LL: CHANGED SIZE OF PANELS ON THE TOP/DNE

2(1/16/24)LL: ADDED STAMPED ENGINEERING

CHANDLER

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FINAL ELECTRICAL **CONNECTION BY** CUSTOMER

B1-2

Simpson Strong-Tie Company Inc. 5956 W. Las Positas Boulevard Pleasanton, CA 94588 Phone: 925.580.9000 Fax: 925.847.3871 www.strongtie.com



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

Pryout	1072	32921	0.03		Pass
Interaction check	N _m /: N _n	V _{sm} /::V _n	Combined Ratio	Permissible	Status
Sec. 17.8.1	0.51	0.00	51.4%	1.0	Pass

Page 9 of 9

E-mail:

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.

Design # 0637033Ar2

Sheet 12 of 27

Client #2859

Address

690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON TERRI BROWN

Designer LEAH LANSFORD

Date 9/29/23

Approval / Date

Client	
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Revision/Date R1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE STOP/DNE

2(1/16/24)LL: ADDED STAMPED ENGINEERING CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT OF REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4



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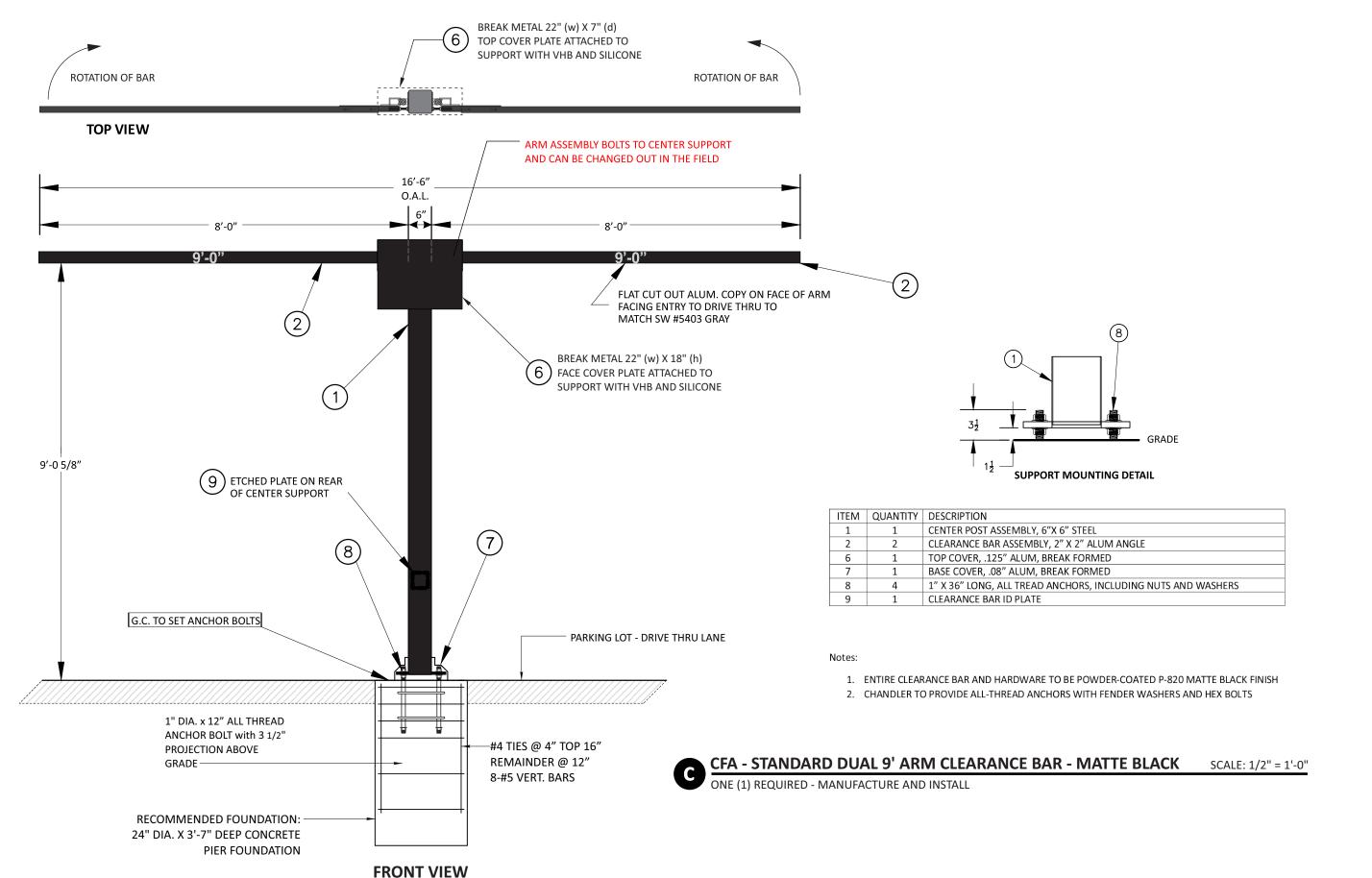
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#2859

Address

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Account KRISTEN HAMILTON

Designer LEAH LANSFORD

Date 9/29/23

Client Sales Estimating Engineering

Revision/Date

1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE TOP/DNE

(1/16/24)LL: ADDED STAMPED ENGINEERING

Landlord



CONNECTION BY





Page 1 of 11 Page 2 of 11



CONCRETE WHEN CAST AGAINST SOIL

WELDING STRENGTH, Fexx = 70 KSI

13.

LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)

PROVIDE PROTECTION AGAINST DISSIMILAR METALS ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION

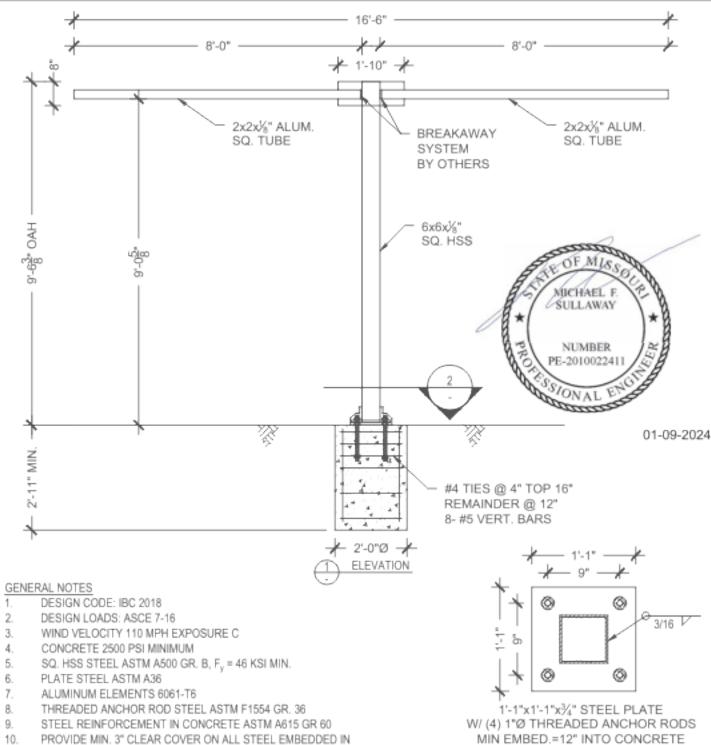
CFA-2859, 690 NW BLUE PKWY, LEE'S SUMMIT, MO

PROJECT:

11545 W. BERNARDO COURT, SUITE 201 SAN DIEGO, CA 92127 PROJECTMANAGER@SULLAWAYENG.COM

PHONE: 1-858-312-5150 FAX: 1-858-777-3534 DATE: 01/09/2024

PROJECT #: ENGINEER: JC(IH) 43787C LAST REVISED: CLIENT: CHANDLER SIGNS





PROJECT: CFA-2859 DATE: 1/09/24 ENGINEER: JC(IH) PROJ. NO.: 43787C

CLIENT: CHANDLER SIGNS

units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16

=qz*G*C _f *A _f		with $q_z = 0.00256K_zK_{zt}K_dV^z$	(29.3.2 & 2	9.4)		
C _f =		(Fig. 29.3-1)				max. height= 9.53
K _{zt} =	1.0	(26.8.2) (=1.0 unless unusual landsc	ape)			
$K_z = front$	om table	e 28.3-1	Exposure= c			
K _d =	0.85	for signs (table 26.6-1)				
V=	110	mph				
G=	0.85	(26.9)	weight=	0.083	kip	8
s/h=			M _{DL} =	0.00	k-ft	
B/s=						

Pole	structure	height at			pressure			Wind				
Loads	component	section c.g.	K _z	$q_z \\$	$q_z^*G^*C_f$	$A_{\vec{\gamma}}$	shear	$Moment M_{W}$				
	1	0.25	0.850	22.4	43.66	0.5	21	5	-			
	2	4.68	0.850	22.4	43.66	4.2	183	855				
	3	8.96	0.850	22.4	43.66	0.3	15	134				
	4	9.14	0.850	22.4	43.66	2.7	120	1097				
	5	9.38	0.850	22.4	43.66	0.6	25	234				
					sums:	8.3	363	2.33	(M_w)	k-ft	arm= 6.4	
		P.,=	0.10	kip			M=	2.33	k-ft	M=sqr	t(M ₂₁ 2+M _w 2)	

 $M_{\nu} = sgrt(1.2M_{Pl}^{2} + 1.0M_{W}^{2}) =$ 2.33 k-ft

Pole Design section; tube

l	$M_u \le \phi M_n$ wi	$M_n = f_y Z$	t _y =	46 ksi	%1	= 0.9		
l	_	Н	$M_u(k-ft)$	Z req'd. (in)	Size(in)	t (in)	Z	USE
l	_	at grade	2.33	0.67	2	0.25	1.0	6x6x1/8" SQ. HSS,

Footing Design footprint: round

ω= 1.3	IBC 1605.3.2	IBC Table 1806.2, sections 1806.3.4, 180	7.3.2 S=(1.3x2x150 psf/ft)
P= 0.28	kip	S1 = S x d / 3 A = 2.34	x P / (S1 x b) S= 400
S1= 388		d =0.5xA (1+ (1+4.36x h/A) ^.5)	IBC 1807.3.2.1
A= 0.86			
		footing: 2' - 0" dia.	2' - 11" deep min.

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Design #

0637033Ar2

Client

#2859

Address

690 NW Blue Pkwy,

Lees Summit, MO

Account KRISTEN HAMILTON

Designer LEAH LANSFORD

Approval / Date

9/29/23

Date

Client Sales Estimating

Engineering

Revision/Date 11(12-22-23)LL: CHANGED SIZE OF PANELS ON THE TOP/DNE 2(1/16/24)LL: ADDED STAMPED ENGINEERING CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT C REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4

Landlord

Sheet 14 of 27

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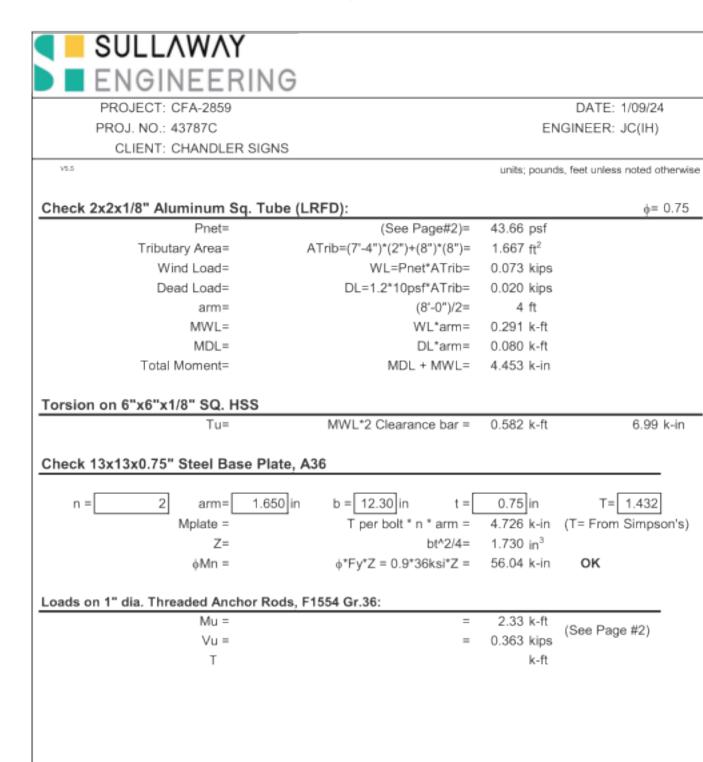
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MIN EMBED.=12" INTO CONCRETE W/NUT/WASHER/NUT @ EMBED. END SECTION

Page 3 of 11 Page 4 of 11



	SULLAWAY
	ENGINEERING

 PROJECT: CFA-2859
 DATE: 1/09/24

 PROJ. NO.: 43787C
 ENGINEER: JC(IH)

CLIENT: CHANDLER SIGNS

Check 2"x2"x0.125" Sq. Aluminum Tube

(ADM 2015 - Ch F)

	Mu =	4 453 k-in	(See Page#3)	d	f
Yielding: (Governs		4.400	(occ ragero)	2	0.125
(ADM 15, F.2) M		23.1 k-in		welded?	NO
	1.5 St Fty =	29.0 k-in		Fcy = Fty =	35 ksi
				Z =	0.660 in^3
	PMn =	20.8 k-in	OK	St =	0.552 in^3
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	1: Fc = Fcy =	35.00		m =	0.65
				=	0.552 in ⁴
	Bbr =	66.8 ksi		ccf =	
	Dbr =	0.67 ksi		ccw =	1.0 in
	Cbr =	67			
01 = Phr 1 5	Fourmohr =	33.0			
91 = Bbr-1.5	Bbr/mDbr =	77.2			
92 - KI	BDI/IIIDDI -	11.2			
since b/t< 91: Fo	c = 1.5 Fcy =	52.50			
Mnlb = Fc If / ccf + F	b lw / ccw =	49.57 k-in			
	PMnlb =	44.61 k-in	ок		

Design # 0637033Ar2

Sheet 15 of 27 Client

#2859 Address

690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON

Designer LEAH LANSFORD

9/29/23

Date

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Approval / Date

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STOPIONE

R2(1/16/24)LL: ADDED STAMPED ENGINEERING

CORRECTION(01/17/20/24)AM: REVISED DETAIL
SECTION AND ADDED 11+E WORD G.C. IN FRONT OI
REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4



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Page 5 of 11



PROJECT: CFA-2859 DATE: 1/9/24 PROJ. NO.: 43787C ENGINEER: JC(IH)

CLIENT: CHANDLER SIGNS

units; pounds, feet unless noted otherwise

(See Page #2 for Mr & Mc)

Check HSS6X6X.125 for torsion and co	(AISC 14 H3)	
Tr =	6.99 k-in (See Page#3)	Fy = 46 ksi h = 5.65 in ³
h/t = 2.45 (E/Fy) ^{1/2} = 3.07 (E/Fy) ^{1/2} =	48.7 61.52 77.08	t = 0.116 in ³ E = 29000 ksi L = in
Fcr =	27.6 ksi (eq'n. H3-3	$C = 8.03 \text{ in}^3$ $\phi = 0.9$
Tc⇒φTn = φ Fcr C =	199.5 k-in OK	
$Mr/Mc + (Tr/Tc)^2 =$	0.15 <1 OK (eq'n. H3-6	5)





0	Deter	4 in inon4
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:

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, her (inch): 12.000

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

Anchor category: -Anchor ductility: Yes hnin (inch): 14.63 Cmin (inch): 6.00 S_{min} (inch): 6.00

Recommended Anchor

Project description: Location: Fastening description:

Base Material

Page 6 of 11

Concrete: Normal-weight Concrete thickness, h (inch): 35.00 State: Cracked Compressive strength, f e (psi): 2500

Supplemental edge reinforcement: Not applicable Reinforcement provided at corners: No Ignore concrete breakout in tension: No

Ignore 6do requirement: No Build-up grout pad: No

Base Plate

) e.v: 1.0 Reinforcement condition: Supplementary reinforcement not present Ignore concrete breakout in shear: No

Length x Width x Thickness (inch): 13.00 x 13.00 x 0.75



Design #

0637033Ar2

Client #2859

Address

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Designer LEAH LANSFORD

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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

2(1/16/24)LL: ADDED STAMPED ENGINEERING

9/29/23

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Anchor Designer™ Software Version 3.2.2309.2

Page 7 of 11	_		_	-	-	
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Company:	Date:	1/9/2024
Engineer:	Page:	2/6
Project:		
Address:		
Phone:		
E-mail:		

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	Anchar Daeignar™
	Anchor Designer™
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	Version 3.2.2309.2
	101010110-2-2000.2

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

6.13

<Figure 2>

2.00	11.00		ner un me		_
2.00		33 9			6.13
100		+	13.5		9
11.00				13.00	
77			6.50		
	+	+			
2.00	6.50				6.13

21.26

6.13

11.00

Page 8 of 11

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

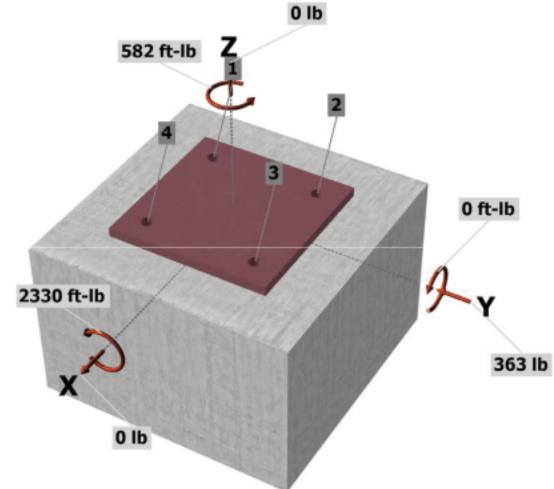
Apply entire shear load at front row: No

Anchors only resisting wind and/or seismic loads: No

Strength level loads:

N₁₀ [lb]: 0 V_{uax} [lb]: 0 V_{uoy} [lb]: -363 M_{IN} [ft-lb]: 2330 Muy [ft-lb]: 0 Muz [ft-lb]: 582

<Figure 1>



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 # 0637033Ar2 **Sheet** 17 of 27

#2859

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Designer LEAH LANSFORD

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Anchor Designer™
 Software
Version 3 2 2309 2

Page 9 of 11

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

3. Resulting Anchor Forces

Anchor	Tension load, N _{us} (lb)	Shear load x, V _{usx} (lb)	Shear load y, V _{usy} (lb)	Shear load combined, $\sqrt{(V_{uos})^2 + (V_{uoy})^2}$ (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

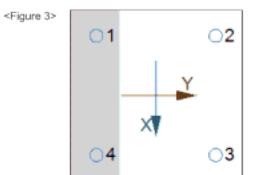
Resultant tension force (lb): 2864

Resultant compression force (lb): 2864

Eccentricity of resultant tension forces in x-axis, e'_{NX} (inch): 0.00 Eccentricity of resultant tension forces in y-axis, e'_{NY} (inch): 0.00

Eccentricity of resultant shear forces in x-axis, e'vx (inch): 0.00

Eccentricity of resultant shear forces in y-axis, e'vy (inch): 0.00



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

N _{se} (lb)	:	::N (1b)	
35150	0.75	26363	_

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

 $N_b = 16 : A f' c h_0 f^{53}$ (Eq. 17.6.2.2.1)

10111	rane quadran.								
.i e	r̃∈ (psi)	h _{er} (in)	No (It)					
1.00	2500	10.087	3767	1					
$^{\circ}N_{cbg} = ^{\circ}(A$	Anco) Tech T	Tech You YouN	Sec. 17.5.	1.2 & Eq. 17.6	.2.1a)				
A_{Nc} (ln^2)	$A_{N\infty}$ (\ln^2)	Ca,min (in)	Circ.W	Visit V	*cN	C(B)N	My (lip)	#	::Nong (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)

 $\rho N_{pe} = 4 \gamma_{e,p} N_p = 4 \gamma_{e,p} 8 A_{big} f_e$ (Sec. 17.5.1.2, Eq. 17.6.3.1 & 17.6.3.2.2a)

C.P	A_{dry} (in ²)	f'c (psi)	ŕ	N _{pπ} (llb)
1.0	5.15	2500	0.70	72156



Page	10	of	11	
Com	nar	w		

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∞ (lb)	Égrout	ê	rigrout Ver (lb)	
21090	1.0	0.65	13709	

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

 $V_{tor} = min[7(I_0/d_0)^{0.2} \cdot d_0 \pm a \times f^* c C_0 \tau^{1.5}; 9 \pm a \times f^* c C_0 \tau^{1.5}]$ (Eq. 17.7.2.2.1a & Eq. 17.7.2.2.1b)

Shear perpendicular to edge in x-direction:

In (im)	d _v (in)	.ia	fc (psi)	Car (in)	V _{bx} (lb)			
8.00	1.000	1.00	2500	15.13	26483			
$p^{*}V_{cbgx} = p^{*}(A_{Vc})$	/ Avea) 1800, V 18 and, V	To, v Th, vVax (Sec	. 17.5.1.2 & Eq.	17.7.2.1b)				
$A_{\mathcal{W}}$ (in ²)	Avos (im²)	Yec.V	K'estV'	₹ 6, V	75,V	V _{tw} (lb)	ŕ	∴Voogw (lb)
482.50	1030.13	1.000	0.781	1.000	1.000	26483	0.70	6782

Shear perpendicular to edge in y-direction:

$V_{by} = min[7(i)]$	le / da) ^{0.2} da Ea f	Cart 1.5; 9.1 a. F. c	ar ^{1.5}] (Eq. 17.7.2.	2.1a & Eq. 17.7	7.2.2.1b)			
I _e (in)	d _v (in)	.in	f'c (psi)	c _{ar} (in)	$V_{\mathrm{Dy}}\left(\mathbb{I}\mathrm{b}\right)$			
8.00	1.000	1.00	2500	15.13	26483			
$V_{cbgy} = A$	lvc/Avoo) ~~c,v~~	nd, V TC, V Th, VVby	(Sec. 17.5.1.2 &	Eq. 17.7.2.1b)				
A_{Vr} (in ²)	Avos (im²)	Yec.V	**************************************	*** V	D, V	V _{ty} (lb)	#	Volgy (lb)
482.50	1030.13	1.000	0.781	1.000	1.000	26483	0.70	6782

Shear parallel to edge in x-direction:

$V_{by} = \min[7(I_0/I_0)^{2} \cdot I_{0.Ea} \cdot \Gamma_c C_{at}^{1.5}; 9 \cdot Ea \cdot \Gamma_c C_{at}^{1.5}]$ (Eq. 17.7.2.2.1a & Eq. 17.7.2.2.1b)								
I _v (in)	d _* (in)	.i.a	f's (psi)	car (in)	V_{by} (lb)			
8.00	1.000	1.00	2500	6.13	6830			
:Vcbgx = :: (2	(Avc/Avo) ***	V Keed V Ke, V Kh, V	V _{by} (Sec. 17.5.1.2	2, 17.7.2.1(c) &	Eq. 17.7.2.1b)			
A_{Vz} (in ²)	Avo (in²)	₹'ec,V'	₹ est.V	$x \in \mathcal{C}, V$	** n, V	V _{by} (lb)	ŕ	: Volge (lb)
195.49	169.10	1.000	1.000	1.000	1.000	6830	0.70	11054

Shear parallel to edge in y-direction:

$V_{\text{tot}} = \min[7(I_0/d_0)^{0.2} \times d_{0.2} \times \Gamma_0 C_0 \tau^{1.5}; 9 \pm i \wedge \Gamma_0 C_0 \tau^{1.5}]$ (Eq. 17.7.2.2.1a & Eq. 17.7.2.2.1b)									
I _e (in)	d _* (in)	.in	f's (psi)	car (in)	Vov (lb)				
8.00	1.000	1.00	2500	6.13	6830				
$vV_{cbgy} = v(2)$	$gV_{chgy} = g(2)(A_{Vc}/A_{Vco})$ $f''(c_{V})^{2}f''(c_{$								
Ave (in²)	Avo (in²)		* ent.V	'€'a, V	*** A, V	V _{bv} (lb)	ŕ	Vobgy (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)

$\hat{r}V_{op} = \hat{r}k$	$k_{cp}N_{cb} = \pm k_{cp}(A_{Nc})$	Anno) Wadin Walin	η,ηΝ _ο (Sec.	17.5.1.2 & Eq.	17.7.3.1a)				
$K_{G\beta}$	A_{Nv} (in ²)	A_{Noo} (in ²)	K and N	· cN	C(R), W	N _b (lb)	#	::V _⇔ (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)

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 #
0637033Ar2
Sheet 18 of 27

Client #2859

Address

690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON Rep. TERRI BROWN

Designer LEAH LANSFORD

Date 9/29/23

Approval / Data

Approval / Date

Client
Sales
Estimating
Art
Engineering
Landlord

Revision/Date

(1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE

R2(1/16/24)LL: ADDED STAMPED ENGINEERING CORRECTION(01/17/2024)AM: REVISED DETAIL



National Headquarters Fort Worth, TX 76155 [214]902-2000 Fax(214)902-2

17319 San Pedro Ave Ste 200 San Antonio, TX 78232 [210]349-4804 Fax (210]349-4

San Antonio
San Antonio, TX 78232
(210)349-3804 Fax (210)349-8724
2301 River Road Ste 201
Northeast US
Louisville, KY 40206
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Northeast US Louisville, KY 4
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Georgia Dawsonville, GA 30534 (678) 725-8852 Fax (210) 349-8724 PO BOX 125 206 Doral Drive Portland, TX 78374 (361) 563-5599 Fax (361) 643-6533

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FINAL ELECTRICAL CONNECTION BY CUSTOMER





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

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	4.4	- 7	4.4	
Page	11	OIL	11	
8-		-		

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

Tension	Factored Load, Nue (lb)	Design Strength, øNn (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 ₁₈ (lb)	Design Strength, øV₂ (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 _{vw}	(èNn V₁0/èVn	Combined Rati	o Permissible	Status
Sec. 17.8.1 0.2	7 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.

Design # 0637033Ar2

Sheet 19 of 27 Client

#2859

Address

690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON TERRI BROWN

Designer LEAH LANSFORD

Date 9/29/23

Approval / Date

Client Sales Estimating Engineering Landlord

Revision/Date

R1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE STOP/DNE

R2(1/16/24)LL: ADDED STAMPED ENGINEERING CORRECTION(01/17/2024)AM: REVISED DETAIL SECTION AND ADDED THE WORD G.C. IN FRONT OF REMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4



San Antonio Ste 200
San Antonio Ste 200
San Antonio, TX 78232
(210)349-3804 Fax (210)349-8724

2301 River Road Ste 201 Northeast US Louisville, KY 40206 (502) 897-9800 Cell (502) 554-2575

Georgia

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

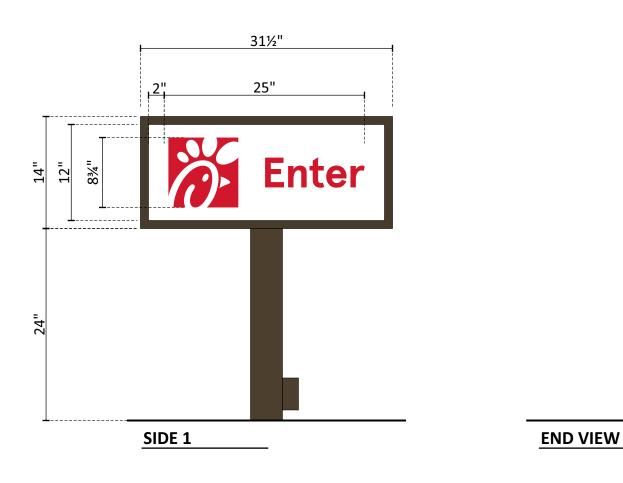
South Texas
PO BOX 125 206 Doral Drive
Portland, TX 78374
[351]58-3599 fax (351) 463-6533
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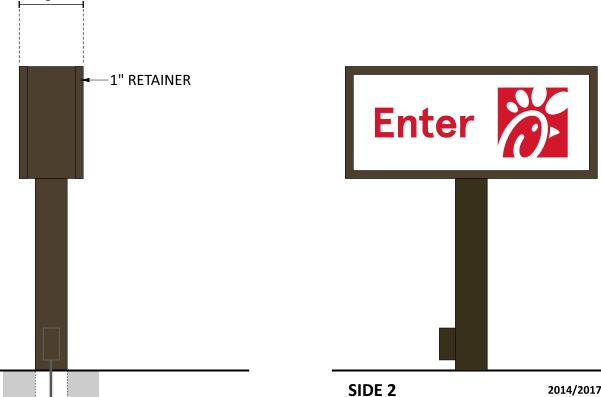
FINAL ELECTRICAL CONNECTION BY CUSTOMER











PRIMARY ELECTRICAL

CFA - D/F DIRECTIONAL

SCALE: 1" = 1' - 0"

3 SQFT

ONE (1) REMOVAL REQUIRED - MANUFACTURE & INSTALL

G.C. TO REMOVE AND DISCARD EXISTING D/F DIRECTIONAL.

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

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



EXISTING CONDITIONS

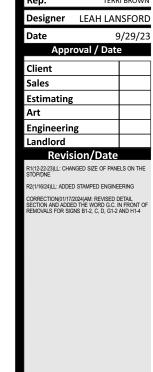
2014/2017 NEC COMPLIANT LABEL

DANGER!

INTERNAL ENERGIZED PARTS
TURN OFF POWER AT
BREAKER PANEL

POWER SOURCE FOUND

BREAKER PANEL . BREAKER # . -WARNING LABEL/ BREAKER LOCATION



Design #

0637033Ar2 Sheet 20 of 27

#2859

690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON



National 14201 Sovereign Robatom
Headquarters (214)902-2000 Fax(214)902San Antonio 5an Antonio, TX 78232

Northeast US 2301 River Road St Louisville, KY 4020 (502) 897-9800 Cell (50

Georgia D

(678) 725-8852 Fax (210) 349-PO BOX 125 206 Doral I Portland, TX 78374

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FINAL ELECTRICAL CONNECTION BY





12"

15" HOLES

BOTTOM OF PANEL

7'-0"

18"

PANEL

MUTCD

7

202

VIS

/ NEW

FW MANUFACTURING

Design #

0637033Ar2

#2859

Address

690 NW Blue Pkwy, Lees Summit, MO

Designer LEAH LANSFORD

KRISTEN HAMILTON

9/29/23

Sheet 21 of 27

Account

Date

Client

Sales

Estimating

Engineering

Revision/Date

1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE TOP/DNE

Landlord

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

INVENTORY #02948

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

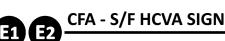
BOLLARD - TO BE PROVIDED BY GEN. CONTRACTOR

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**





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

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

ONE (1) REQUIRED - MANUFACTURE AND INSTALL

1'-0"

1.5 SQ. FT.





E1-2, F

CHANDLER





12"

RESERVED

PARKING

F

ACCESSIBLE

BOLLARD TO BE PROVIDED BY GEN. CONTRACTOR

1'-0"

HOLES

15"

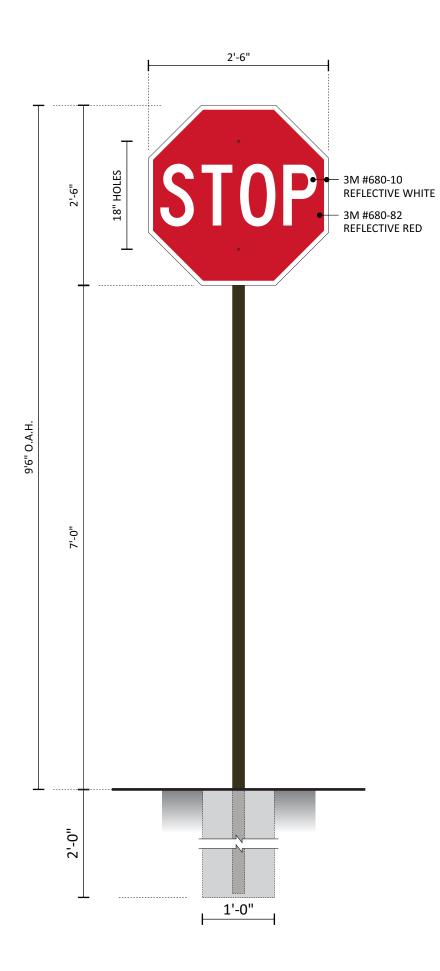
18"

9'-0"

7'-0" BOTTOM OF PANEL

- 1 ½" RADIUS

— 1 1/2" RADIUS





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**

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

Design # 0637033Ar2 **Sheet** 22 of 27

#2859

690 NW Blue Pkwy, Lees Summit, MO

KRISTEN HAMILTON Account

Designer LEAH LANSFORD

Date 9/29/23

Approval / Date					
Client					
Sales					
Estimating					
Art					
Engineering					

Revision/Date

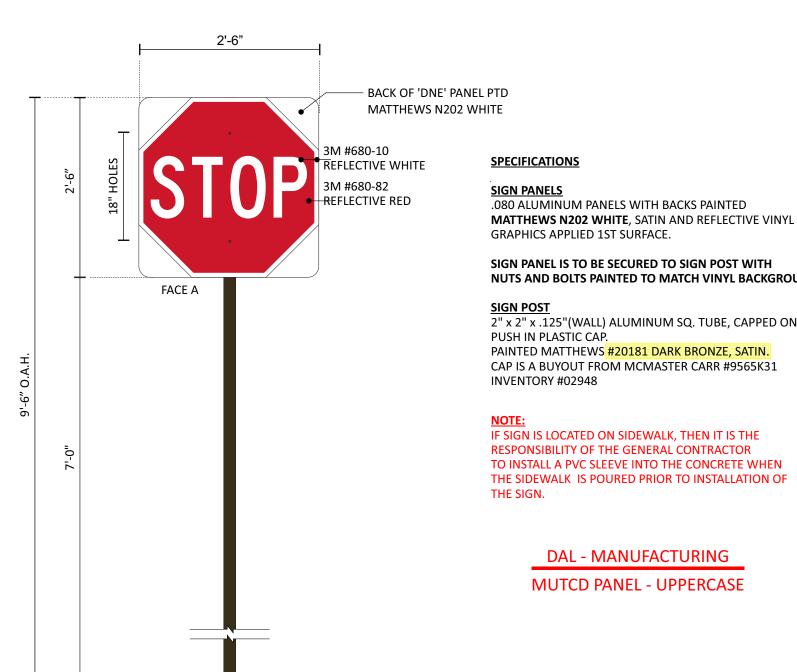


CONNECTION BY





G1-2



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

FACE B

-1 ½" RADIUS DO NOT 3M #680-10 REFLECTIVE WHITE 3M #680-82 **ENTER** REFLECTIVE RED

GRADE

1'-0"

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**

D/F STOP/DNE POST AND PANEL H1-4

FOUR (4) REMOVALS REQUIRED - MANUFACTURE AND INSTALL

4 SQ. FT.

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

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.



2'-0"

EXISTING CONDITIONS



CONNECTION BY

H1-4

Design # 0637033Ar2

#2859

Address

690 NW Blue Pkwy, Lees Summit, MO

Designer LEAH LANSFORD

KRISTEN HAMILTON

9/29/23

Sheet 23 of 27

Account

Date

Client

Sales Estimating

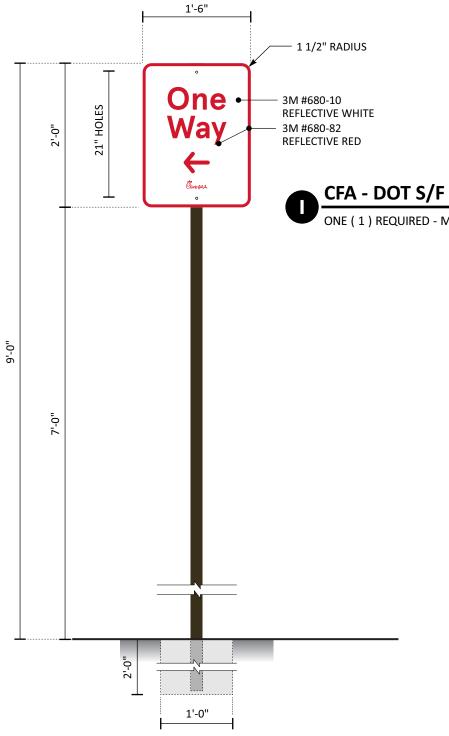
Engineering

Revision/Date

CORRECTION(01/17/2024)AM: REVISED DETAIL ECTION AND ADDED THE WORD G.C. IN FRONT O EMOVALS FOR SIGNS B1-2, C, D, G1-2 AND H1-4

Landlord

DAL - MANUFACTURING **NEW CFA WAYFINDING PANELS**



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

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**

PANEL MUTCD 202 S EW Z **FW MANUFACTURING**

Design # 0637033Ar2

Sheet 24 of 27 Client

#2859

Address 690 NW Blue Pkwy, Lees Summit, MO

Account KRISTEN HAMILTON

Designer LEAH LANSFORD

Date 9/29/23

Approval / Date Client Sales Estimating Art

Engineering

Landlord

Revision/Date

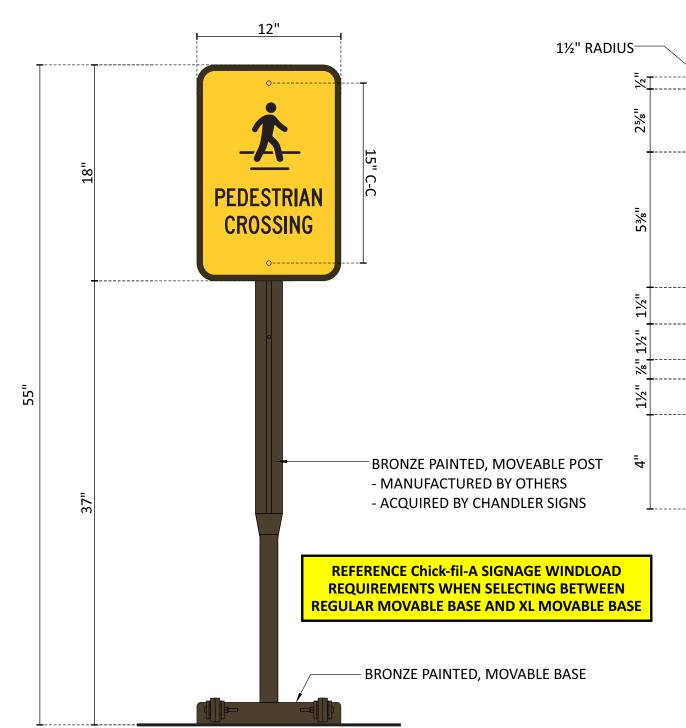
1(12-22-23)LL: CHANGED SIZE OF PANELS ON THE TOP/DNE (1/16/24)LL: ADDED STAMPED ENGINEERING



CONNECTION BY CUSTOMER







PANEL DETAIL - PEDESTRIAN CROSSING

SCALE: 3" = 1'-0"

SAFETY SIGN - PEDESTRIAN CROSSING ONE (1) REQUIRED - MANUFACTURE & INSTALL

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

PLEASE NOTE: PORTABLE BASE AND POST PROVIDED BY PATTISON.

 $\overline{\geq}$ Account Rep. KRISTEN HAMILTON Designer LEAH LANSFORD 202 Date 9/29/23 Client Sales VIS Engineering NEW Landlord Revision/Date **FW MANUFACTURING CHANDLER CONNECTION BY**

0637033Ar2 Sheet 25 of 27

#2859

690 NW Blue Pkwy,

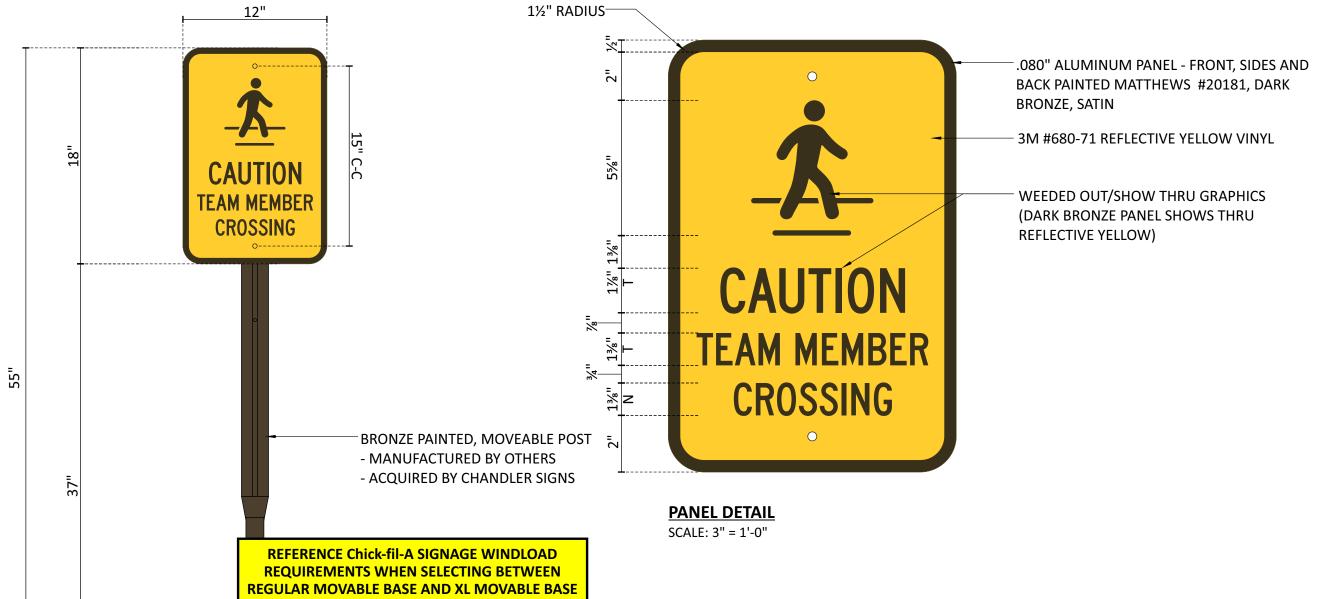


SCALE: 1-1/2" = 1'-0"

PLEASE NOTE: PORTABLE BASE AND POST PROVIDED BY PATTISON.

690 NW Blue Pkwy, KRISTEN HAMILTON Designer LEAH LANSFORD Date 9/29/23 Client Sales Estimating Engineering Landlord Revision/Date **FW MANUFACTURING CHANDLER CONNECTION BY**

PANEL 0637033Ar2 **Sheet** 26 of 27 UTCD #2859 2 202 VIS NEW





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

BRONZE PAINTED, MOVABLE BASE

PLEASE NOTE: PORTABLE BASE AND POST PROVIDED BY PATTISON.

Design # 0637033Ar2 **Sheet** 27 of 27 #2859 690 NW Blue Pkwy, KRISTEN HAMILTON Designer LEAH LANSFORD Date 9/29/23 Client Sales Estimating Engineering Landlord **CHANDLER**

CONNECTION BY

L1-2