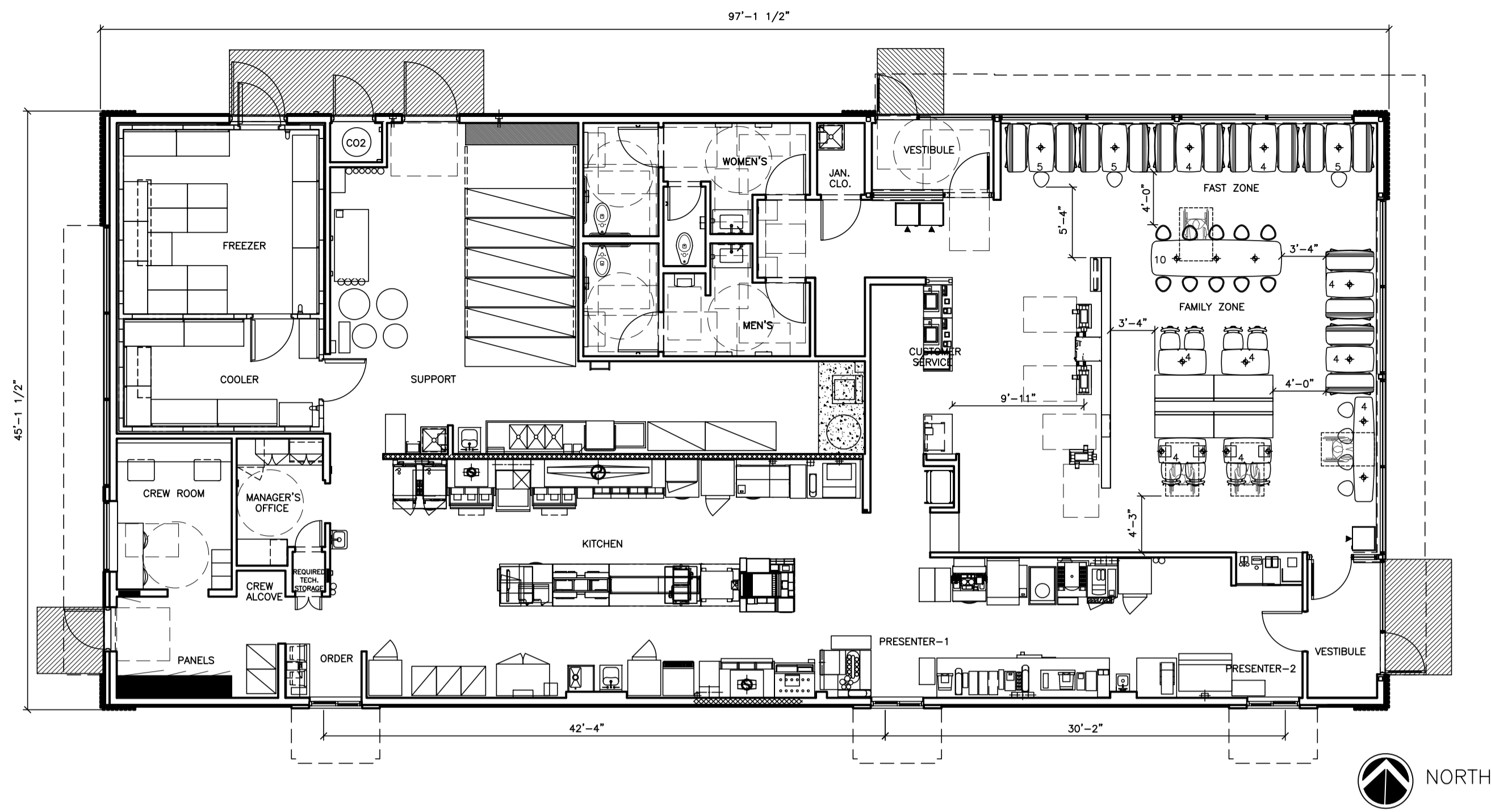


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04/25/23 DATE  
 PRJ2023-00032



4597-WW PLAN  
 67 SEATS (4 ACCESSIBLE SEATS)  
 THIS DRAWING IS FOR SEATING REFERENCE ONLY  
 (SEATING LAYOUT NOT FOR CONSTRUCTION)

SEATING LAYOUT IS SCHEMATIC, THE FINAL SEATING LAYOUT TO BE PROVIDED BY DECOR, UNDER SEPARATE COVER BY OTHERS

# 2021 4597-WW BLDG-BB20 NASHVILLE FIELD OFFICE

## BUILDING INFORMATION:

**ADDRESS:**  
 STATE SITE CODE: 024-1290  
 STREET ADDRESS: 3720 West Sunshine Street  
 CITY: SPRINGFIELD  
 COUNTY: GREENE  
 STATE: MISSOURI

**STRUCTURE:**  
 WOOD LOAD BEARING WALLS, WOOD ROOF FRAMING

**UTILITIES:**  
 ELECTRIC GRILLS & ELECTRIC FRYERS  
 GAS HVAC & GAS WATER HEATER

**BUILDING CODE:**  
 BUILDING CODE EDITION: 2018 INTERNATIONAL BUILDING CODE  
 MECHANICAL CODE EDITION: 2018 INTERNATIONAL MECHANICAL CODE  
 ELECTRICAL CODE EDITION: 2017 NATIONAL ELECTRICAL CODE  
 PLUMBING CODE EDITION: 2018 INTERNATIONAL PLUMBING CODE  
 ENERGY CODE EDITION: 2023 INTERNATIONAL ENERGY CONSERVATION CODE  
 FIRE/LIFE SAFETY CODE EDITION: 2018 INTERNATIONAL FIRE CODE  
 FUEL/GAS CODE EDITION: 2018 INTERNATIONAL FUEL GAS CODE  
 HEALTH CODE EDITION: 2018 HEALTH CODE  
 ACCESSIBILITY CODE EDITION: ANSI 117.1 2009

**BUILDING DATA:**  
 OCCUPANCY: USE GROUP A2  
 CONSTRUCTION TYPE: VB  
 NUMBER OF STORIES: 1  
 BUILDING HEIGHT: 18'-9 1/2" (MAIN BLDG. PARAPET)

BASE BUILDING GROSS AREA: 4,303 S.F.  
 BASE BUILDING NET AREA: 4,117 S.F.

**DESIGN LOADS:**  
 GROUND SNOW LOAD: 15 PSF  
 WIND SPEED: 110 MPH (EXPOSURE B)  
 SEISMIC DESIGN CATEGORY: B  
 SOIL BEARING PRESSURE: 3100 PSF  
 COLUMN FOOTINGS: 2900 PSF

**LIFE SAFETY SYSTEM:**  
 EMERGENCY LIGHTING:  YES  NO  
 EXIT SIGNS:  YES  NO  
 FIRE ALARM:  YES  NO  
 DUCT SMOKE DETECTORS:  YES  NO  
 W/ AUDIBLE/VISIBLE DEVICE:  YES  NO  
 FIRE SPRINKLERS:  YES  NO  
 W/ AUDIBLE/VISIBLE DEVICE:  YES  NO  
 SPRINKLER FLOW/TAMPER SWITCH:  YES  NO  
 CO2 DETECTION SYSTEM:  YES  NO  
 W/ AUDIBLE/VISIBLE DEVICE:  YES  NO  
 PANIC HARDWARE:  YES  NO

REVISIONS	DESCRIPTION	DATE	REV	DATE	DESCRIPTION

# DRAWING INDEX

T1.0 Cover Sheet  
 GN1.0 General Notes  
 R1.2 Life Safety and Exiting Plan

**DRIVE-THRU (FOR REFERENCE ONLY)**  
 DT1.0 Drive-Thru Plan & Details

**ARCHITECTURAL**  
 A1.0 Floor Plan & Details  
 A1.2 Reflected Ceiling Plan & Details  
 A1.3 Roof Plan & Details  
 A2.0 Exterior Elevations  
 A2.1 Exterior Elevations & Details  
 A3.0 Enlarged Amenity Station Plan & Details  
 A3.1 Enlarged Service Pod & Details  
 A4.0 Enlarged Restroom Plan & Details  
 A4.1 Enlarged Plan Details  
 A5.0 Wall Sections & Details  
 A5.1 Wall Sections & Details  
 A5.2 Wall Sections & Details  
 A5.3 Wall Sections & Details  
 A6.0 Door & Hardware Schedules  
 A6.1 Finish Schedules

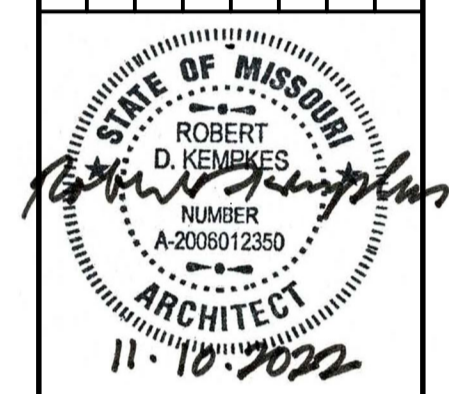
**STRUCTURAL**  
 S1.0 Foundation Plan  
 S1.2 Roof Framing Plan  
 S2.0 Foundation Sections  
 S2.1 Foundation Sections  
 S3.0 Framing Sections  
 S3.1 Steel Details  
 S3.2 Framing Details  
 S3.3 Framing Details  
 S4.0 General Structural Notes

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 M1.4 Refrigerant & Gas Piping Plan  
 M2.0 Exhaust Hoods  
 M3.0 Mechanical Details  
 M4.0 General Mechanical Notes  
 M4.1 Mechanical Schedules

**PLUMBING**  
 P1.0 Domestic Water Piping Plan  
 P1.2 Waste, Vent & Storm Piping Plan  
 P1.4 Underground Rough-in Plan  
 P1.6 Overhead Rough-in Plan  
 P2.0 Domestic Water Isometric  
 P2.1 Waste & Vent Isometric  
 P2.2 Storm Isometric  
 P3.0 Plumbing Details  
 P4.0 General Plumbing Notes  
 P4.1 Plumbing Schedules

**ELECTRICAL**  
 E1.0 POS Electrical Riser Diagram  
 E1.1 Rough-in Floor Plan  
 E2.0 Lighting Plan & Schedule  
 E2.1 Electrical Roof Plan  
 E3.0 Electrical Rough-in Schedule  
 E3.1 Electrical & Lighting Notes and Details  
 E3.2 Interlock Wiring Diagrams  
 E4.0 Wiring Details  
 E4.1 Lighting Controls  
 E4.2 Split Utility Distribution

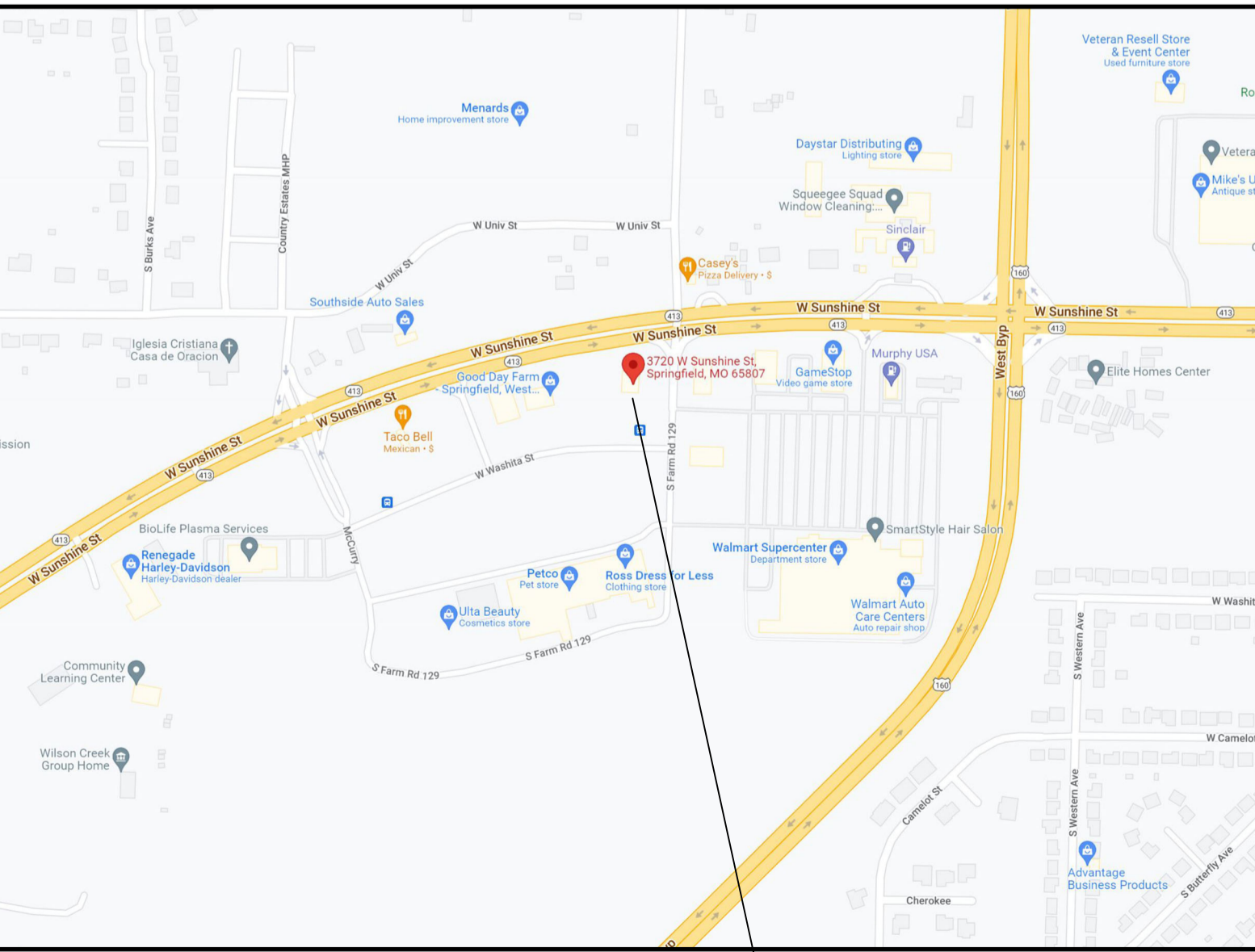
**KITCHEN EQUIPMENT**  
 K1.0 Kitchen Cover Sheet  
 K2.0 Kitchen Equipment Plan  
 K2.1 Kitchen Equipment Schedule



PREPARED BY: Robert Kempkes  
 ARCHITECT  
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 PHONE: 417-881-1111  
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PREPARED FOR: McDonald's USA, LLC  
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TITLE	DESCRIPTION	SHEET NO.
2022 STANDARD BUILDING - BB20	4597 - WOOD/WOOD	T1.0
WOOD BEARING WALLS W/HARDBOARD SIDING	WOOD ROOF TRUSS FRAMING	
E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH		
SITE ADDRESS	3720 W. SUNSHINE	
	024-1290	



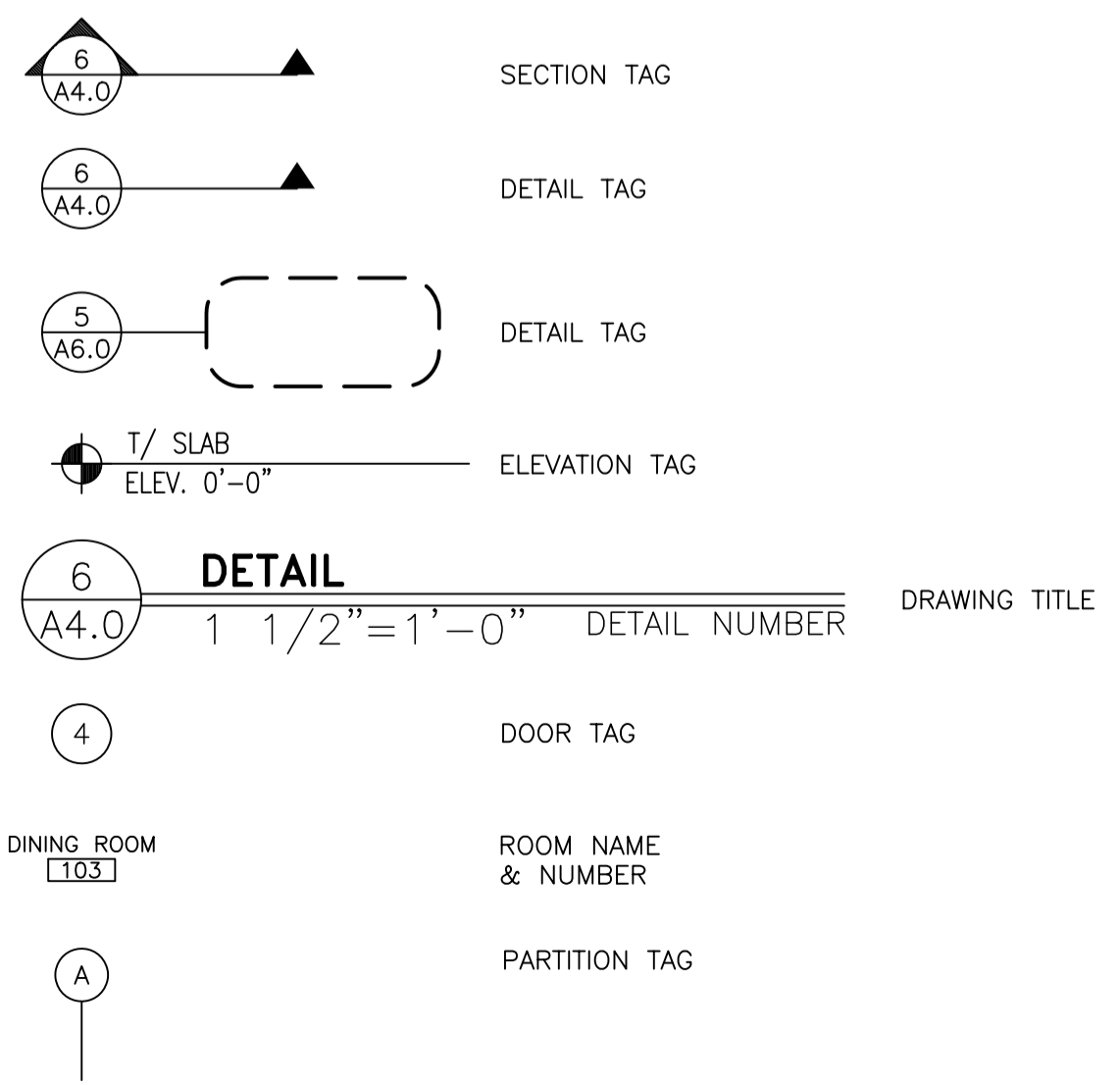
VICINITY MAP: NORTH SITE

## OCCUPANCY ALLOWANCE:

TABLE 1004.1.2  
 INTERNATIONAL BUILDING CODE 2018  
 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANTS
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	575 SF	2
ASSEMBLY WITH FIXED SEATS	SEE PLAN	-	64
ASSEMBLY W/OUT FIXED SEATS, STANDING SPACE	5 NET	35 SF	7
BUSINESS AREAS	100 GROSS	60 SF	1
KITCHENS, COMMERCIAL	200 GROSS	2,442	12
<b>TOTAL OCCUPANCY ALLOWANCE</b>			<b>86</b>

## SYMBOL LEGEND:



## DESIGNER OF RECORD:

DISCIPLINE:	NAME:	EMAIL ADDRESS:	PHONE #:	LICENSE #:
ARCHITECT:	ROBERT D. KEMPKE	bob@taylorkempkes.com	501-624-5679	2006012350
STRUCTURAL:	DAVID BALMA	dbalma@core-eng.com	215-809-2125	2015003007
MECHANICAL:	DAVID M. LEIFFER	dleiffer@core-eng.com	479-877-3465	2013011214
PLUMBING:	DAVID M. LEIFFER	dleiffer@core-eng.com	479-877-3465	2013011214
ELECTRICAL:	JOHN D. FERGUSON	jferguson@core-eng.com	479-877-3438	2008014085

## CONSTRUCTION PROJECT MANAGER:

NAME:	ADDRESS:	EMAIL:	PHONE #:
MANAGER: AMY SWITZER	McDonald's USA, LLC,	Amy.Switzer@us.mcd.com	(913) 660-2205

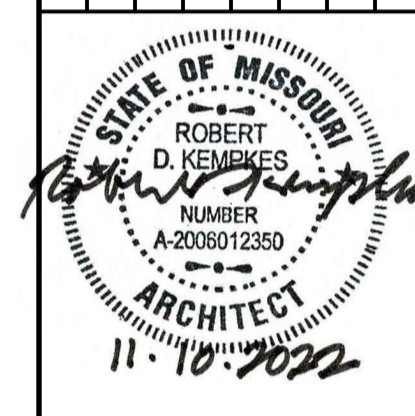
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# GENERAL NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATORY ORDINANCES AND STANDARDS INCLUDING ADA AND OR OTHER HANDICAP ACCESSIBILITY CODES.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER'S VENDORS REGARDING SCHEDULING ON SITE DURING CONSTRUCTION AND SEQUENCING OF THE WORK.
- THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN INTENT AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
- THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING CONDITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. LARGE SCALE DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE, UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
- ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
- UPON COMPLETION OF PROJECT, G.C. TO OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
- SIGNS, UNLESS NOTED OTHERWISE, ARE PROVIDED BY OWNER'S SIGN CONTRACTOR. OWNER'S SIGN VENDOR WILL PROVIDE MONUMENT SIGN BASE (CONCRETE, STONE, BRICK, ETC.) IF PROJECT REQUIRES DECORATIVE BASE. SEE SHEET L-1 TO VERIFY IF REQUIRED. GENERAL CONTRACTOR TO PROVIDE ROUGH-IN & FINAL CONNECTION AND BRAILLE EXIT SIGN.
- GENERAL CONTRACTOR TO PROVIDE FOUR (4) 30 YARD DUMPSTERS DURING McDONALD RETAIL MOVE-IN. (40 HOURS)
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SET-UP AND COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.
- ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
- FINAL KEYING TO BE COORDINATED WITH McDONALD FACILITY MANAGER AND PAID FOR BY McDONALD.
- REFER TO "PROJECT MANUAL" FOR ALL OTHER INSTRUCTIONS & DIRECTIVES NOT SHOWN IN DRAWINGS.

*Robert Kempkes*  
 SIGNATURE  
 04/25/23  
 DATE

PRJ2023-00032



# ABBREVIATIONS

## GENERAL ABBREVIATIONS

A	ANNEALED	INSUL	INSULATION
AC	AIR CONDITIONING	MAX	MAXIMUM
ACT	ACOUSTIC CEILING TILE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURER
AHU	AIR HANDLING UNIT	MIN	MINIMUM
AL	ALUMINUM	MO	MASONRY OPENING
ASPH	ASPHALT	MR	MOISTURE RESISTANT
CJ	CONTROL JOINT	MTL	METAL
CLNG	CEILING	NA	NOT APPLICABLE
CMU	CONCRETE MASONRY UNIT	NIC	NOT IN CONTRACT
COL	COLUMN	NOM	NOMINAL
CONC	CONCRETE	NTS	NOT TO SCALE
CONT	CONTINUOUS	OC	ON CENTER
CP	CONCRETE PAD	OPP	OPPOSITE
CT	CERAMIC TILE	OPT	OPTIONAL
CL	CENTERLINE	PF	PRE-FABRICATED
DBL	DOUBLE	PSF	POUNDS PER SQUARE FOOT
DF	DRINKING FOUNTAIN	PT	PRESSURE TREATED
DIA	DIAMETER	PTD	PAINTED
DIM	DIMENSION	QT	QUARRY TILE
DN	DOWN	R	RADIUS
DS	DOWNSPOUT	REBAR	REINFORCING BAR
EA	EACH	REF	REFERENCE
EJ	EXPANSION JOINT	REQD.	REQUIRED
ELEC	ELECTRICAL	RO	ROUGH OPENING
ELEV	ELEVATION	SB	SPLASHBLOCK
EQ	EQUAL	SIM	SIMILAR
EXIST	EXISTING	SPEC	SPECIFICATION
FD	FLOOR DRAIN	SS	STAINLESS STEEL
FE	FIRE EXTINGUISHER	STL	STEEL
FEC	FIRE EXTINGUISHER CABINET	STOR	STORAGE
FF	FINISH FLOOR	SUSP	SUSPENDED
FR	FIRE RATED	T	TEMPERED
FRP	FIBERGLASS REINFORCED PLASTIC	TYP	TYPICAL
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE
GYP BD	GYP SUM BOARD	VCT	VINYL COMPOSITION TILE
HC	HANDICAP	VERT	VERTICAL
HDW	HARDWARE	WD	WOOD
HM	HOLLOW METAL	WP	WATERPROOF
HT	HEIGHT	WWF	WELDED WIRE FABRIC
HVAC	HEATING, VENTILATION, AIR CONDITIONING		

## McDONALD'S ABBREVIATIONS

AP	APOLIC MENTAL PANEL	LAM	LAMINATE
BM	BRAKE METAL	LE	ACCENT LIGHTING
C	ALUMINUM CANOPY	LP	LOW POINT
CG	CORNER GUARD	LL	LEVEL LANDING
CT	WALL TILE	MACHINE	MACHINE
DE	DECOR ELEMENT	MANAGER	MANAGER
DEVICE		MF	METAL FASCIA
DMB	DIGITAL MENU BOARD	MS	MOP SINK
DS	DROP SOFFIT	PB	PIPE BILLIARD
D/T	DRIVE-THRU	PT	RMHC COIN COLLECTOR
FB	FILL BOX	RL	ROOF LADDER
F/C	FREEZER/COOLER	ROOM	ROOM
GC	GENERAL CONTRACTOR	S	McDONALD'S SIGNAGE
HP	HIGH POINT	SCH	SHLUTER
KIOSK		SSBB	SELF SERVE BEVERAGE BAR
L	LIGHT FIXTURE	UN	ALUMINUM CANOPY UNDERSCORE

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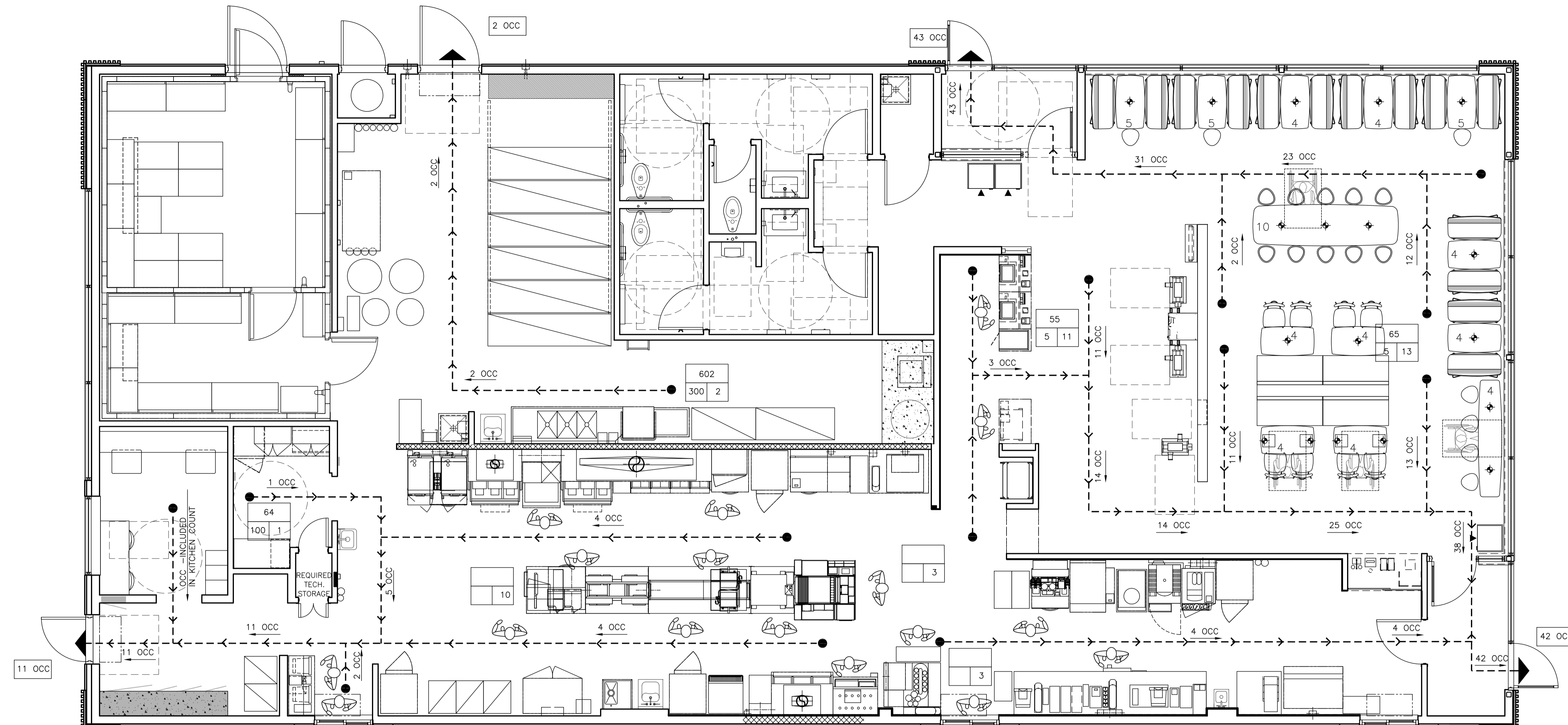
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TITLE	2022 STANDARD BUILDING - BB20
DESCRIPTION	4597 - WOOD/WOOD
DESCRIPTION	WOOD BEARING WALLS W/HARDBOARD SIDING
DESCRIPTION	WOOD ROOF TRUSS FRAMING
DESCRIPTION	E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH
SHEET NO.	GN1.0
GENERAL NOTES	

024-1290.00.0  
 024-1290 3720 W Sunshine Springfield, MO

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

Signature: *Kevin R. Davis* DATE: 04/25/23  
SIGNATURE: PRJ2023-00032



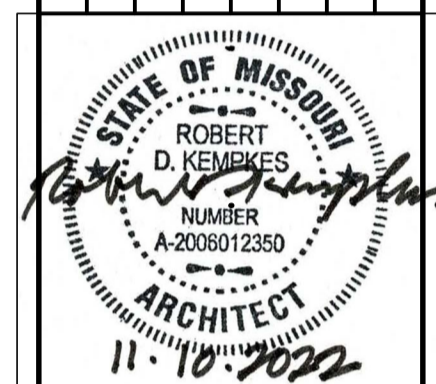
1 LIFE SAFETY AND EXITING PLAN  
R1.2 1/4"=1'-0"

**OCCUPANCY ALLOWANCE:**

INTERNATIONAL BUILDING CODE 2018

TABLE 1004.1.2  
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANTS
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	575 SF	2
ASSEMBLY WITH FIXED SEATS	SEE PLAN	-	64
ASSEMBLY W/OUT FIXED SEATS, STANDING SPACE	5 NET	35 SF	7
BUSINESS AREAS	100 GROSS	60 SF	1
KITCHENS, COMMERCIAL	200 GROSS	2,442	12
TOTAL OCCUPANCY ALLOWANCE			86



Prepared by: Robert Kempkes  
ARCHITECT  
210 CENTRAL AVE. STE. 2  
FAX: 648.243.9910 PRINT: 301.624.8491

PREPARED FOR: McDonald's USA, LLC  
McDonald's USA, LLC  
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DRAWN BY: SO	DATE: 2022-10	REVIEWED BY: RH	DATE ISSUED: 10-04-2022
TITLE: 2022 STANDARD BUILDING - BB20	DESCRIPTION: 2597 - WOOD/WOOD	DESCRIPTION: WOOD BEARING WALLS W/HARDIE BOARD SIDING	DESCRIPTION: WOOD ROOF TRUSS FRAMING
SHEET NO. R1.2	024-1290.00.0	SITE ADDRESS: 3720 W Sunshine	Springfield, MO

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED

DATE: 04/25/23  
 PROJECT: 2023-00032  
 SIGNATURE: [Signature]  
 TITLE: ARCHITECT

THE LAYOUT OF THE DRIVE-THRU LANES SHOWN IN THIS DETAIL ILLUSTRATES DRIVE-THRU DESIGN PRINCIPLES.

**SIDE BY SIDE DRIVE-THRU STANDARD 1.0**

**1. SIDE BY SIDE DRIVE-THRU STANDARD 1.0 CURBING DETAILS:**

- 1A DRIVE-THRU LANES BOUND BY CURB ON BOTH SIDES ARE TO BE 12'-0" LINES BOUND BY CURB ON ONE SIDE AND PAINTED STRIPING ON THE OTHER SIDE ARE TO BE A MIN. OF 10'-0".
- 1B THE MIN. RADIUS FOR ALL INSIDE/DRIVER'S SIDE DRIVE-THRU CURBING IS 20'-0".
- 1C PRIMARY LANE CURBING SHOULD BE AS STRAIGHT AS POSSIBLE. (LESS CURVING, THE BETTER).
- 1D THE OVERALL LENGTH OF THE CURBED ISLAND SHOULD BE 35'-45". THE LENGTH OF THE ISLAND FROM THE DT CANOPY/SPEAKER ALLOWS FOR THREE CARS IN THE SECONDARY LANE, TWO IN THE PRIMARY LANE AND ONE AT THE COMMITMENT POINT.
- 1E ENTRANCE LANE ENTERING THE SIDE BY SIDE DRIVE-THRU IS TO BE 14'-0" MIN.
- 1F THE RADIUS FOR THE ISLAND TIP SHALL BE 1'-6".

**2. SIDE BY SIDE DRIVE-THRU STANDARD 1.0 PAVEMENT MARKINGS:**

- 2A 6" WIDE YELLOW PAINT STRIPE TO SPAN OUTER EDGE OF THE ENTIRE DRIVE-THRU LANE. LANE STARTS AT DRIVE-THRU ENTRANCE WHERE "McDONALD'S GATEWAY" SIGN IS LOCATED.
- 2B DOUBLE-HEADED ARROW PAVEMENT MARKING. STANDARD STRIPING MARKINGS ARE 7'-0" SHAFT, 7'-0" ARROW STEM AND 3'-0" FOR THE ARROW HEAD. TIP OF ARROW HEAD TO BE LOCATED AT CENTER OF EACH LANE.
- 2C MERGE POINT IS LOCATED WHERE TWO VEHICLES LEAVING EACH DT CANOPY/SPEAKER SIMULTANEOUSLY MEET. THE MERGE POINT STRIPING IS TO BE LOCATED BY OFFSETTING THE INNER PRIMARY LANE BACK OF CURB 9'-0" AND OFFSETTING THE OUTER LANE STRIPING 8'-0". AT THE INTERSECTION OF THESE OFFSETS, A 6" YELLOW STRIPE IS TO BE MARKED PERPENDICULAR TO THE OUTER LANE AS WELL AS THE INNER PRIMARY LANE.
- 2D THE WORDS "THANK YOU" ARE TO BE PLACED 8" FROM THE EDGE OF THE YELLOW STRIPE TO THE BOTTOM OF THE WORD "YOU".
- 2E THE 8" YELLOW STRIPE IS TO BE PLACED 40'-0" FROM THE CENTER LINE OF THE OPEN PRESENT WINDOW AND IS FOR PARKING CARS THAT ARE WAITING FOR ORDERS.
- 2F A CIRCLE DIRECTIONAL ARROW CENTERED ABOVE THE WORD "DRIVE THRU" USED TO INDICATE THE DRIVE THRU ENTRY POINT.

**3. SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR PRIMARY LANE:**

- 3A MIN. 60'-0" (+5', 60'-65") LINEAR DISTANCE BETWEEN THE CENTER LINE OF THE DT CANOPY/SPEAKER FACE AND THE CENTER LINE OF THE OPEN ORDER BOOTH WINDOW AS MEASURED ALONG THE CENTER LINE OF THE LANE. THIS MAY ONLY BE INCREASED IN 20'-0" INCREMENTS (±5' FOR 80', 100', AND 120') TO A MAX OF 120'. 100'-0" IS OPTIMAL.
- 3B THE CENTER OF THE PRIMARY MENU BOARD FOUNDATION IS TO BE 5'-9" (5'-6" MIN. AND 6'-0" MAX.) FROM THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION WITH THE END CAP OF THE PRIMARY MENU BOARD 15" PREFERRED BUT NOT LESS THAN 12" FROM THE FACE OF CURB.
- 3C THE PRIMARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° TO 35° ANGLE (35° PREFERRED) FROM A CAR POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.
- 3D AUGER "McDONALD'S ORDER HERE CANOPY" CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- 3E A SINGLE BOLLARD SHOULD BE POSITIONED AT THE CORNER OF THE BUILDING ON THE DRIVE-THRU SIDE. IT SHOULD BE FLUSH AGAINST THE BUILDING AND FACE OF THE BOLLARD SHOULD BE TIGHT AGAINST THE BACK OF THE CURB.
- 3F AUGER "McDONALD'S GATEWAY" SIGN FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- 3G THE DISTANCE BETWEEN THE TIP OF THE CURBED ISLAND AND THE CENTER LINE OF THE PRIMARY DT CANOPY/SPEAKER MUST BE 15'-0". THIS MEASUREMENT IS TAKEN PARALLEL TO THE INSIDE CURB FACE OF THE PRIMARY LANE.
- 3H THE PRIMARY LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE PRIMARY DT CANOPY/SPEAKER.

**4. SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR SECONDARY LANE:**

- 4A TO POSITION THE SECONDARY DT CANOPY/SPEAKER, DRAW AN ARC WITH A 14' RADIUS THAT IS CENTERED FROM THE MIDPOINT OF THE ISLAND TIP. THEN OFFSET THE FACE OF THE CURB BY 24" TO DETERMINE THE LOCATION OF CENTER OF FOUNDATION OF THE SECONDARY DT CANOPY/SPEAKER.
- 4B WHEN THE SECONDARY DT CANOPY/SPEAKER IS LOCATED AT 14'-0" FROM THE TIP OF THE CURBED ISLAND, THE LOOP DETECTOR IS TO BE 2'-0" FORWARD OF THE DT CANOPY/SPEAKER CENTER LINE WITH THE LOOP FACING FORWARD AND THE DETECTOR LOOP PERPENDICULAR TO THE SECONDARY DT CANOPY/SPEAKER WHEN POSSIBLE.
- 4C THE CENTER OF THE SECONDARY MENU BOARD FOUNDATION SHALL BE 5'-9" (5'-6" MIN. AND 6'-0" MAX.) FROM CENTER OF THE DT CANOPY/SPEAKER FOUNDATION WITH THE END CAP OF THE SECONDARY MENU BOARD 15" PREFERRED BY NOT LESS THAN 12" FROM FACE OF CURB.
- 4D AUGER "McDONALD'S ORDER HERE" DT CANOPY/SPEAKER FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- 4E THE SECONDARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° FROM A VEHICLE POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.
- 4F "ANY LANE, ANY TIME" BOLLARD SIGN MUST BE A MIN. OF 1'-6" FROM FACE OF CURB AT THE BEGINNING OF THE LANDSCAPE ISLAND. BOLLARD SIGN IS TO BE ORIENTED AT AN ANGLE OF 90° FROM THE CURB.

**5. SIDE BY SIDE DRIVE-THRU STANDARD 1.0 DETECTOR LOOP:**

- 5A DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING WINDOW AT THE CASH AND PRESENTER BOOTHS.

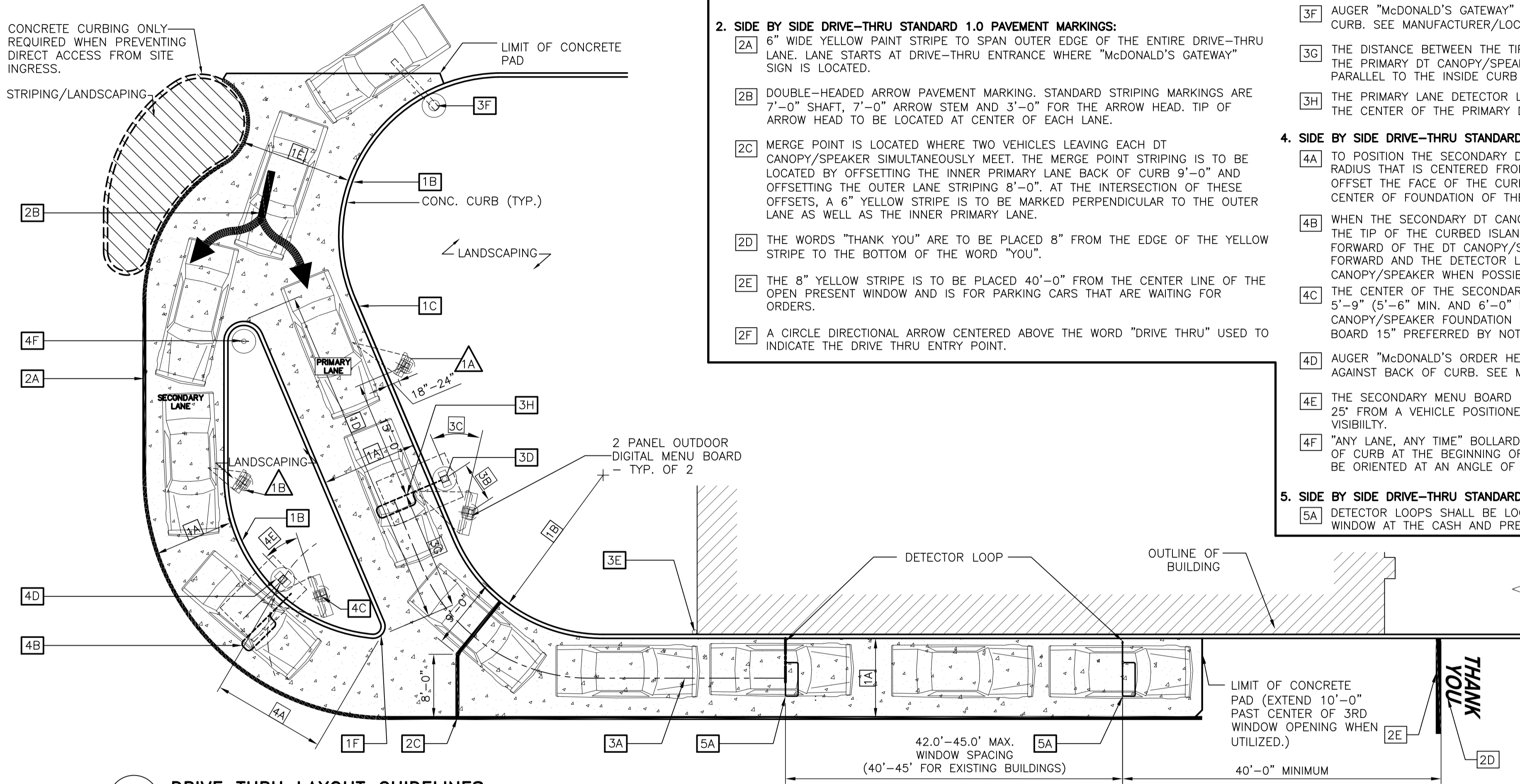
**SIDE BY SIDE DRIVE-THRU STANDARD 1.0 FEATURES:**

**1. SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT:**

- 1A PRE-BROWSE BOARD MUST BE 18"-24" FROM FACE OF CURB. THE DISTANCE BETWEEN THE PRIMARY DT CANOPY/SPEAKER AND PRE-BROWSE BOARD IS TO BE 15' AS MEASURED ALONG THE FACE OF CURB. THIS IS MEASURED FROM THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE (APPROXIMATELY 50°) OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER.
- 1B PRE-BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB. THE DISTANCE BETWEEN THE SECONDARY DT CANOPY/SPEAKER AND PRE-BROWSE BOARD IS TO BE 15' AS MEASURED ALONG FACE OF THE CURB. THIS IS MEASURED FROM THE POINT PERPENDICULAR TO THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE POINT PERPENDICULAR TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER (PREFERRED 35°).

**GENERAL NOTES**

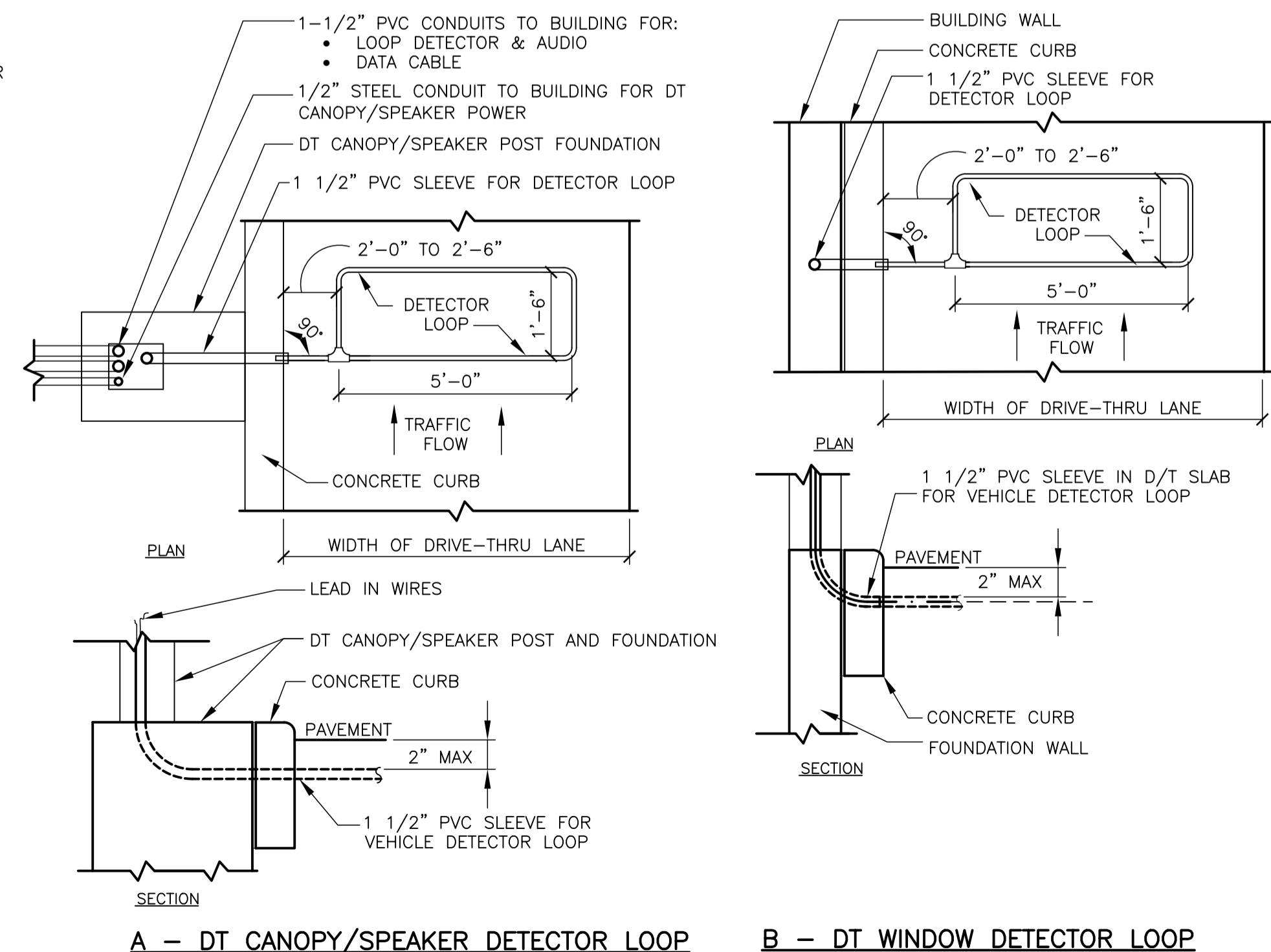
1. DRIVE-THRU ELEMENTS: DT CANOPY/SPEAKER DRIVE-THRU PYLON/CLEARANCE POLE AND BOLLARD SIGN SHALL BE CONSISTENT WITH THE STANDARD BUILDING DESIGN DRIVE-THRU ELEMENTS. OTHER DESIGNS MAY NOT BE USED.
2. CONTRACTOR SHALL COORDINATE WITH APPLICABLE PLANS, McDONALD'S AREA CONSTRUCTION MANAGER, CONTENT SUPPLIER AND SIGNAGE SUPPLIER TO DETERMINE EXACT LOCATION, ORIENTATION, MOUNTING HEIGHTS, AND NUMBER OF BOARDS AND OTHER DRIVE-THRU ELEMENTS TO BE INSTALLED AT THIS SITE. ALL WORK TO BE COORDINATED WITH OTHER TRADES.
3. CONTACT McDONALD'S AREA CONSTRUCTION MANAGER FOR DRIVE-THRU ELEMENT FOOTING AND WIRING REQUIREMENTS NOT SHOWN. (INFORMATION ALSO AVAILABLE THROUGH VENDOR WEBSITES) SIGNAGE MANUFACTURER TO PROVIDE FOOTING ANCHORS & TEMPLATES TO G.C. PRIOR TO FOUNDATION POURING.
4. SEE DETAIL 2/DT1.0 FOR DETECTOR LOOP INFORMATION, ELECTRICAL SHEETS FOR LOW VOLTAGE CONDUIT DIAGRAM AND FOR DRIVE THRU POWER DIAGRAM; VENDOR'S SPECIFICATIONS SHALL GOVERN UPON ANY DISCREPANCIES.
5. CONTRACTOR TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR, CONTENT SUPPLIER AND THE SIGN SUPPLIER.
6. CONTRACTOR TO INSTALL PRE-FORMED, PRE-WIRED VEHICLE DETECTOR LOOP.
7. CONTRACTOR SHALL VERIFY CONDUIT SIZES REQUIRED BY VEHICLE LOOP DETECTOR SUPPLIER.



1 DRIVE THRU LAYOUT GUIDELINES  
 DT1.0 1" = 10'-0"

**NOTES**

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
4. DETECTOR LOOP MANUFACTURERS: DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.  
 3M: 1-800-328-0033  
 HME: 1-800-848-4468
5. DETECTOR LOOP MATERIAL: PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD-IN IS PRE-TWISTED AT FACTORY.
6. DETECTOR LOOP CONSTRUCTION: FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.



A - DT CANOPY/SPEAKER DETECTOR LOOP B - DT WINDOW DETECTOR LOOP

2 DETECTOR LOOP DETAILS  
 DT1.0 NOT TO SCALE

PREPARED BY: Robert Kempkes, ARCHITECT, 2023 MISSOURI ARCHITECT NUMBER A-2008012300, 11-10-2022

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TITLE: 2022 STANDARD BUILDING - BB20  
 DESCRIPTION: 4597 - WOOD/WOOD  
 WOOD BEARING WALLS W/HARDBOARD SIDING  
 WOOD ROOF TRUSS FRAMING  
 E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH  
 SITE ID: 024-1290  
 SITE ADDRESS: 3720 W Sunshine  
 Springfield, MO

DATE: 10/04/2022  
 REVIEWED BY: RH  
 DRAWN BY: SO  
 STD ISSUE DATE: 2022-10

024-1290.00.0  
**DT1.0**  
 DRIVE-THRU DETAILS