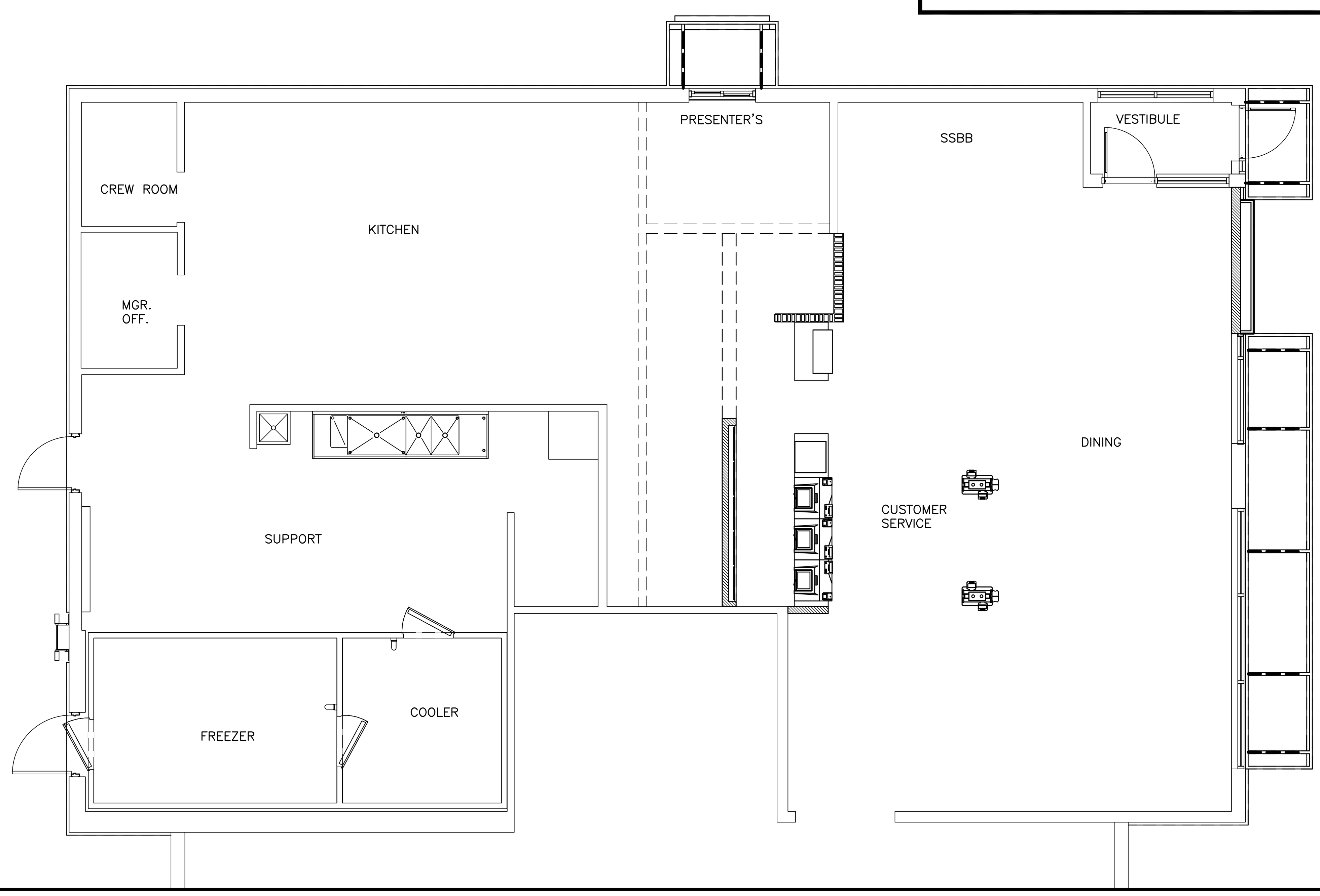
THIS DRAWING IS FOR REFERENCE ONLY.



2017 REMODEL BUILDING

MRP 2.0 CORE'16 EXTERIOR STO

GREAT SOUTHERN REGION

BUILDING INFORMATION:

ADDRESS:

STATE SITE CODE: 024–1145
STREET ADDRESS: HIGHWAY 44 AND EXIT 189
CITY: ROLLA
COUNTY: PHELPS
STATE: MO

STRUCTURE:

CMU WALL/ W/ SIDE–BY–SIDE STL BAR JOISTS

UTILITIES:

GAS HEAT & HOT WATER

BUILDING DATA:

OCCUPANCY: MCDONALDS RESTAURANT
CONSTRUCTION TYPE: EXISTING – TYPE VB
NUMBER OF STORIES: 1

DESIGNER OF RECORD:

DISCIPLINE:	NAME:	EMAIL ADDRESS:	PHONE #:	LICENSE #:
ARCHITECT:	ROBERT D. KEMPKES	bob@taylorkempkes.com	501–624–5679	2006012350
STRUCTURAL:	MIKE SPILINEK	mspilinek@olssonassociates.com	308–384–8750	E–22772
ELECTRICAL:	JOHN D. FERGUSON	jferguson@core–eng.com	479–877–3438	2008014085
MECHANICAL:	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXX
PLUMBING:	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXX

CONSTRUCTION PROJECT MANAGER:

	NAME:	MAILING ADDRESS:	EMAIL ADDRESS:	PHONE #:
MANAGER:	ALICIA SMITH	2105 Vandalia, Suite 12A, Collinsville, IL 62234	asmith@cmgincservices.com	(618) 980–0229

SYMBOL LEGEND:

Symbol	Description	Symbol	Description
6 / A4	SECTION TAG	4	DOOR TAG
5 / A6	DETAIL TAG	DINING ROOM 103	ROOM NAME & NUMBER
T/ SLAB ELEV. 0'–0"	ELEVATION TAG	A	PARTITION TAG
6 / A4 DETAIL 1 1/2"=1'–0" DETAIL NUMBER	DRAWING TITLE		

APPLICABLE BUILDING CODES:

BUILDING CODE EDITION:	INTERNATIONAL BUILDING CODE 2000
MECHANICAL CODE EDITION:	INTERNATIONAL MECHANICAL CODE 2000
ELECTRICAL CODE EDITION:	NATIONAL ELECTRICAL CODE 1999
PLUMBING CODE EDITION:	INTERNATIONAL PLUMBING CODE 2000
FIRE CODE EDITION:	INTERNATIONAL FIRE CODE 2000
FUEL GAS CODE EDITION:	INTERNATIONAL FUEL GAS CODE 2000

GENERAL NOTES

1. All Specifications are contained in McDonald's Project Manual and are part of the Contract Documents for this project
2. All work shall be performed in strict accordance with all applicable national, state, and local building codes, regulations, ordinances, and local authorities having jurisdiction.

3. Investigate job site to compare contract documents and existing conditions. Include cost for all work described in contract documents and required or implied by existing conditions. Notify architect of any conflicts between existing conditions and new work, omissions or conflicts in the drawings and any restrictions related to the execution of the work.

4. Apply for, obtain and pay for all permits, fees, inspections and approvals by local authorities having jurisdiction over the project. Provide copies of all transactions to owner. Notify architect of any variance with codes in force. Contractor shall be responsible for compliance with orders of any public authority bearing on the performance of the work.

5. Provide, and pay for all materials, labor, equipment, tools, construction equipment, warehousing, transportation and delivery costs, hoisting, removal of trash and debris, and other facilities and services necessary for the execution and completion of the work.

6. All work shall be performed by the general contractor unless otherwise noted. All references to the "contractor" include the general contractor and the subcontractors.

7. The contractor shall be solely responsible for, and have control over, all construction means, techniques, sequences and procedures and for coordinating all portions of the work required by the contract documents.

8. The architect is not responsible for errors, omissions or delays by the contractor.

9. Verify dimensions in the field. Do not scale drawings, dimensions govern. Large scale details govern over small scale details.

10. Perform all work and install materials in strict accordance with manufacturer's specifications and instructions and in a manner consistent with industry standards of workmanship.

11. Examine all surfaces to determine that they are sound, dry, clean and ready to receive finishes or millwork prior to installations. Start of installation shall imply acceptance of substrate and shall not be grounds for claims improper performance of installed materials. Advise architect of any existing construction not level, smooth and plumb within industry standards prior to start of construction.

12. Install and maintain all necessary coverings, protective enclosures, temporary doors and partitions and dust barriers to protect all occupants and existing work and finishes to remain. Repair and replace any damages caused by improper protections at no additional charge to owner.

13. Maintain all exits, exit lighting, fire protective devices and life safety systems in working order.

14. 24 hours prior to occupancy of any phase, thoroughly clean all surfaces of dust, debris, loose construction material and equipment. Vacuum or mop all floors and clean mirrors.

15. Warrant to the owner that all materials and equipment furnished and installed under this contract shall be new, unless otherwise specified and that all work shall be of good quality, free from faults and conforms with the contract documents.

16. For a period of one year beginning at the date of substantial completion, contractor shall promptly correct work found not to be in accordance with the contract documents, contractor shall bear all costs of corrections.

17. Note that the method of manufacturing, fabricating and installing all millwork and equipment and its structural components defined in the contract documents is representative and indicates design intent only. If the materials, details or dimensional properties are at variance with the general contractor's or manufacturer's recommendations, alternate details will be considered for review by the architect when shop drawings are submitted in accordance with the contract documents. It shall be the responsibility of the general contractor to guarantee that the millwork and equipment will have proper support, stability, and fault-free performance. Alternate recommendations for major design changes will not be considered.

18. Coordinate all items to insure delivery to the proper location and verify accommodation within building entrances and passageways.

19. Set work in plumb, level and square, scribed tightly and accurately to adjacent surfaces, securely anchored in position indicated on drawings. Shim as required, using concealed shims.

20. Hazardous materials: Asbestos and hazardous waste exclusion - the architect hereby states, and the owner acknowledges, that the architect has no professional liability or other insurance (and is unable to reasonably obtain such insurance) for claims arising out of the performance of or the failure to perform professional services, including but not limited to, the preparation of reports, designs, drawings, and specifications, and related to the investigation detection of hazardous material on the site.

21. The contractor shall send to the architect a copy of as-built drawings noting any revisions.

GENERAL NOTES - ELECTRICAL

1. Carefully review the architectural drawings for additional items to be removed and/or relocated. Include all costs in base bid for removal, disconnecting, or relocation of equipment affected by demolition of other trades.

2. Existing electrical equipment not shown on this drawing, however, required to be removed and/or relocated by demolition, shall be included in scope of work.

3. Shutdown of any service to equipment remaining shall only be for the time agreed upon by owner's representative. Such shutdown shall be in writing with copy to architect.

4. Electrically disconnect all electrical equipment being removed by demolition back at panel board. After testing to determine "power-off" to equipment, remove and dispose of equipment, unless specifically noted otherwise.

5. All conduit and wire removed shall be removed completely back to source and where required branch over current protective devices properly labeled "spare."

6. All conduit and wire for equipment located outside areas of demolition shall remain in service. The exact method of re-routing new conduit and wire to equipment remaining shall be coordinated with work of other trades, prior to any installation.

7. All existing conduit and wire interfering with the new work shall be re-routed concealed in the new construction, unless noted otherwise.

8. Existing receptacles, located within the limits of demolition, and their associated conduit and wiring shall be electrically disconnected and removed by the electrical contractor unless noted otherwise. Provide new conduit and wire (to match existing), to maintain continuity of service for equipment which shall remain both inside and outside the area of demolition.

9. Existing telephone and data outlets, located within the limits of demolition, and their associated conduit and wiring shall be electrically disconnected and removed by the electrical contractor unless noted otherwise. Provide new conduit and wire (to match existing), to maintain continuity of service for equipment which shall remain both inside and outside the area of demolition.

10. Existing fire alarm equipment, located within limits of demolition, and its associated conduit and wiring shall be electrically disconnected and removed by the electrical contractor unless noted otherwise. Provide new conduit and wire (to match existing), to maintain continuity of service for equipment which shall remain both inside and outside the area of demolition.

11. Existing sound system and speakers, located within the limits of demolition, and their associated conduit and wiring shall be electrically disconnected and removed by electrical contractor unless noted otherwise. Provide new conduit and wire (to match existing), to maintain continuity of service for equipment which shall remain both inside and outside the area of demolition.

12. Existing security system equipment, located within the limits of demolition, and their associated conduit and wiring shall be electrically disconnected and removed by electrical contractor unless noted otherwise. Provide new conduit and wire (to match existing), to maintain continuity of service for equipment which shall remain both inside and outside the area of demolition.

REVISIONS

DRAWING INDEX

CV Cover Sheet

SITE

SEE CIVIL DRAWINGS

Drive–Thru

DT1.0 Drive–Thru Plan & Details

ARCHITECTURAL

D1.0 Demolition – Floor Plan
D1.1 Demolition – Elevations & Notes
A1.0 Floor Plan
A1.1 Roof Plan
A2.0 Elevations
A2.1 Elevations
A3.0 Wall Sections & Details
A3.1 Wall Sections & Details
A3.2 Wall Sections & Details
A4.0 Wall Details
A6.0 SAM Floor Plans
A6.1 SAM Details and Notes
A6.2 SAM Details and Notes
BR–1 Barrier Removal Plan

STRUCTURAL

S0.0 General Notes
S1.0 Foundation Plan
S1.1 Framing Plan

ELECTRICAL

E1.0 Electrical Floor Plan & Notes
E1.1 Electrical Rough–In Plan
E2.0 Electrical Lighting Plan & Schedule
E3.0 Electrical Specifications & Panels

CODE REVIEW

IEBC CLASSIFICATION	ALTERATIONS-LEVEL 2		
IBC OCCUPANCY GROUP	A-2		
OCCUPANT LOAD	FIXED SEATS	Dining	49
	WAITING AREA	39 SF/5=	8
	KITCHEN	1,823SF/200=	9
	TOTAL		66
GROSS AREA	EXISTING NO CHANGE-		2,908 SF
SPECIAL USE AND OCCUPANCY -	NO		
FIRE PROTECTION SYSTEMS -	EXISTING ANSUL SYSTEMS AT HOODS - NO CHANGE		
	EXISTING PORTABLE FIRE EXTINGUISHERS - NO CHANGE		
CONSTRUCTION TYPE	VB		
FIRE RESISTANCE FOR BLDG ELEMENTS	0		
OPENING PROTECTIVES	0		
EXITS	3 EXISTING NO CHANGE		
MAX. TRAVEL DISTANCE TO AN EXIT	41'		

REV	DATE	DESCRIPTION	BY

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2006012350
ARCHITECT
6·19·2018

PREPARED BY:
Robert Kempkes
ARCHITECT
210 CENTRAL AVE., STE 2A
HOT SPRINGS, AR 71901
FAX 501-623-3166 PHONE 501-624-5679

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: S.O.
STD ISSUE DATE: DEC. 2017
REVIEWED BY: R.K.
DATE ISSUED: 06–19–2018
ROLA, MO

TITLE: 2017 MRP 2.0 CRITERIA SET CORE 16 EXTERIOR – STO
DESCRIPTION
SITE ADDRESS: HIGHWAY 44 AND EXIT 189
SITE ID: 024–1145

SHEET NO. 24–1145.00.0
CV
COVER

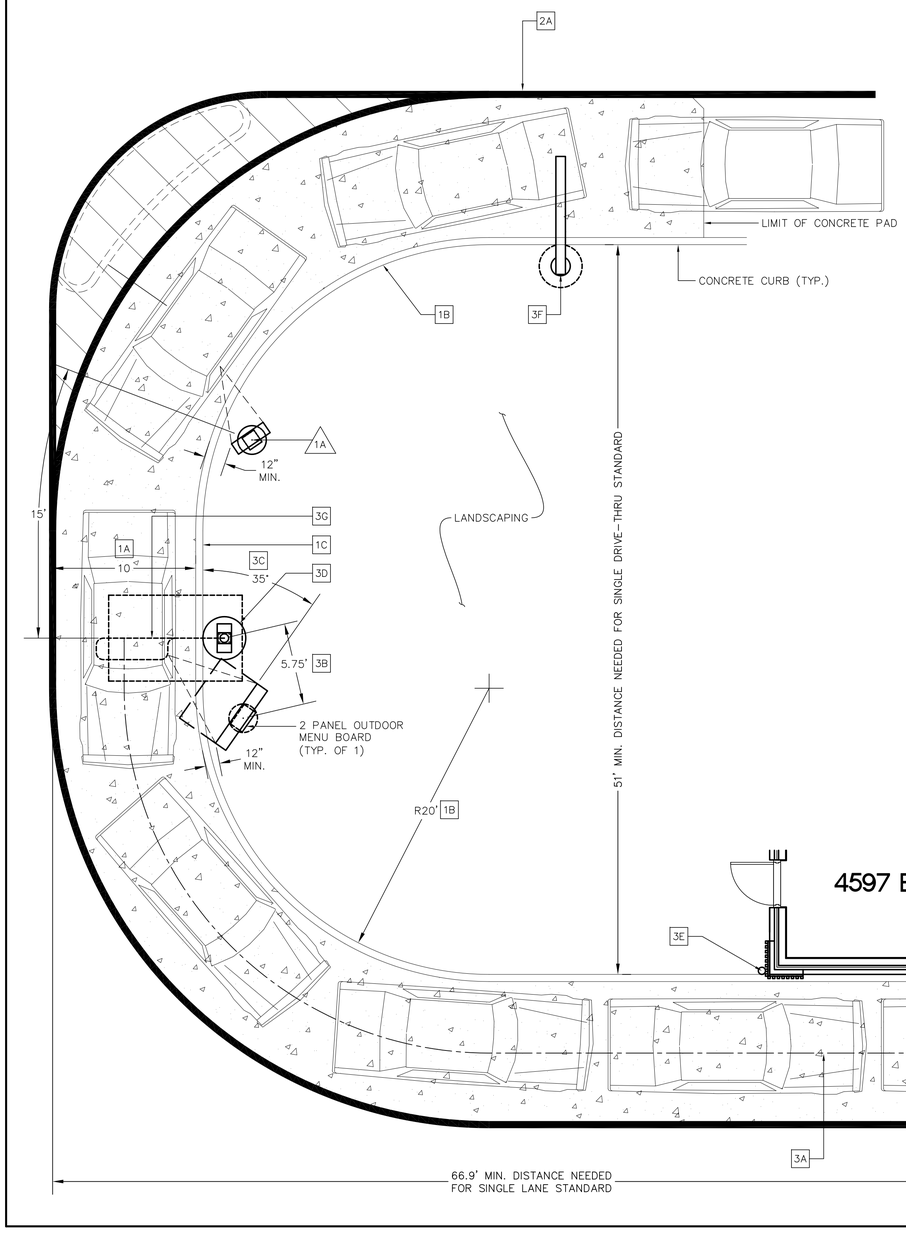
NOTES:
1. THE REGIONAL CONSTRUCTION MANAGER IS TO REVIEW AND APPROVE ALL DRIVE-THRU LAYOUTS. A DRIVE-THRU IS FINAL, AND CONSIDERED "RED", ONCE APPROVED. NO CHANGES ARE TO BE MADE AFTER THIS POINT.
2. DUE TO THE EXACT GEOMETRY REQUIRED FOR THE EFFICIENT OPERATION OF THIS DRIVE-THRU LAYOUT, IT IS REQUIRED THAT ALL DRIVE-THRU EQUIPMENT AND PAVEMENT IMPROVEMENTS TO BE FIELD LOCATED BY A LICENSED SURVEYOR.
3. THE PLACEMENT OF THE CANOPY AND ANY ADDITIONAL EQUIPMENT SHOULD BE SUCH THAT IT PREVENTS BLOCKING THE CUSTOMER'S VIEW OF THE MENU BOARD WHILE ORDERING.
4. THIS SINGLE DRIVE-THRU STANDARD IS BASED ON THE PROTOTYPICAL McDONALD'S 4597 BUILDING
5. ALL DRIVE THRU EQUIPMENT SUPPLIED BY MCDONALDS APPROVED SUPPLIERS.

NOT FOR CONSTRUCTION

SINGLE DRIVE-THRU STANDARD

SCALE: 1" = 5'-0"

5 0 2.5 5 10 20



SINGLE DRIVE-THRU STANDARD

1. SINGLE DRIVE-THRU STANDARD CURBING DETAILS:

1A DRIVE-THRU LANES BOUND BY CURB ON BOTH SIDES ARE TO BE 12'-0". LANES 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" TO INSIDE OF CURB.

1C LANE CURBING SHOULD BE AS STRAIGHT AS POSSIBLE. (LESS CURVING, THE BETTER).

2. SINGLE DRIVE-THRU STANDARD PAVEMENT MARKINGS:

2A 6" WIDE YELLOW PAINT STRIPE TO SPAN OUTER EDGE OF THE ENTIRE DRIVE-THRU LANE.

2B THE WORDS "THANK YOU" ARE TO BE PLACED 8" FROM THE EDGE OF THE YELLOW STRIPE TO THE BOTTOM OF THE WORD "YOU".

2C 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.

3. SINGLE DRIVE-THRU STANDARD EQUIPMENT POSITIONING:

3A MIN. 60'-0" (+5', 60'-65') LINEAR DISTANCE BETWEEN THE CENTER LINE OF THE CANOPY 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 MENU BOARD FOUNDATION SHALL BE 5'-9" (5'-0" MIN. AND 6'-0" MAX.) FROM THE CENTER OF THE CANOPY FOUNDATION, WITH THE END CAP OF THE PRIMARY MENU BOARD NOT LESS THAN 12" FROM FACE OF CURB.

3C THE MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° TO 35° ANGLE (35° PREFERRED) FROM A VEHICLE POSITIONED AT THE CANOPY 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 LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE CANOPY.

4 SINGLE DRIVE-THRU STANDARD DETECTOR LOOP:

4A DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING WINDOW AT THE CASH AND PRESENT BOOTHS.

SINGLE DRIVE-THRU STANDARD 1.0 FEATURES:

1. SINGLE DRIVE-THRU STANDARD 1.0 EQUIPMENT:

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

REV	DATE	DESCRIPTION	BY

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

PREPARED BY:
Robert Kempkes
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201 CENTRAL AVE., STE 2A
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PREPARED FOR:
McDonald's USA, LLC

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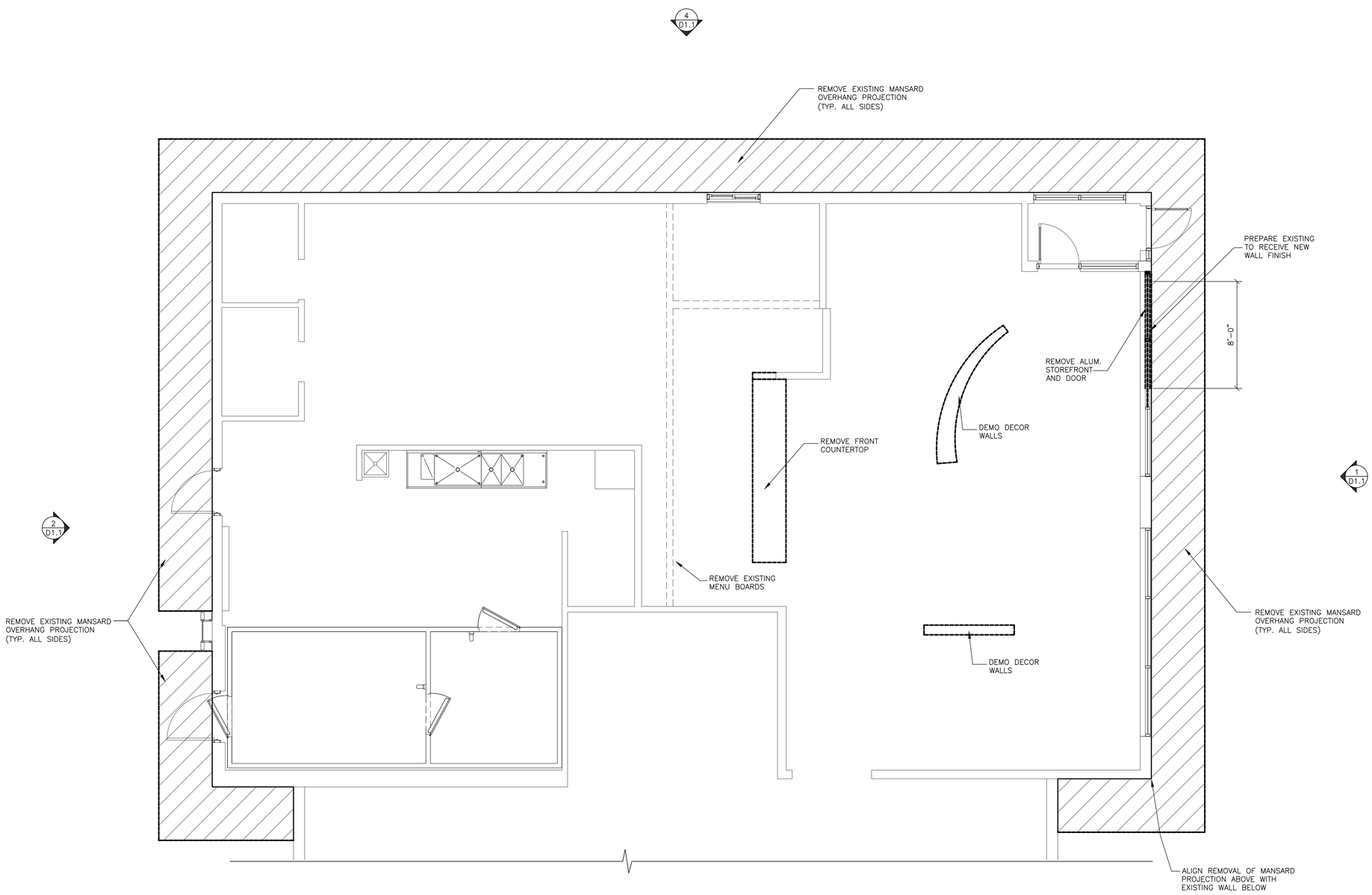
DRAWN BY	REVIEWED BY	DATE ISSUED
S.O.	R.K.	06-19-2018
STD ISSUE DATE DEC. 2017		

TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR - STD
DESCRIPTION

SITE ID: 024-1145
SITE ADDRESS: HIGHWAY 44 AND EXIT 189
ROLA, MO

SHEET NO. 24-1145.00.0
DT-1
DRIVE THRU



1 D1.0 **DEMOLITION FLOOR PLAN**
1/4" = 1'-0"

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

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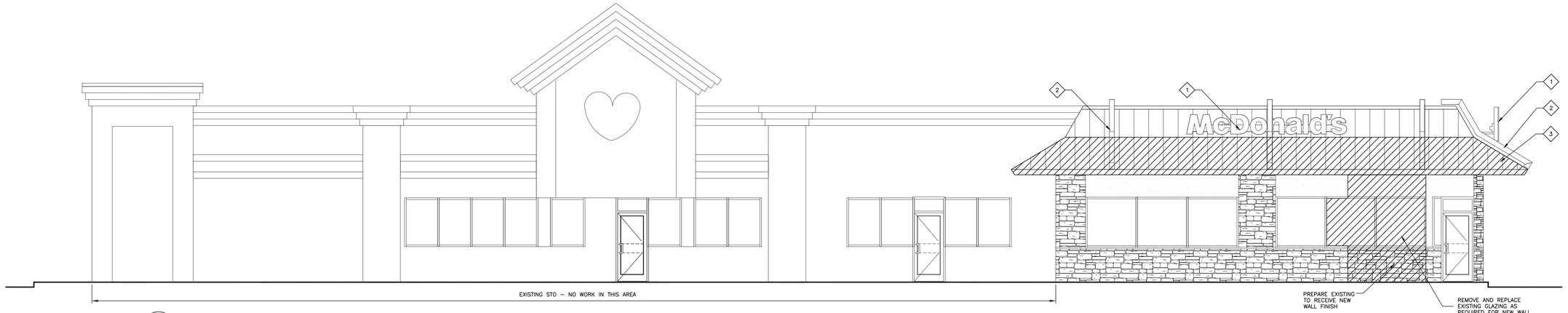
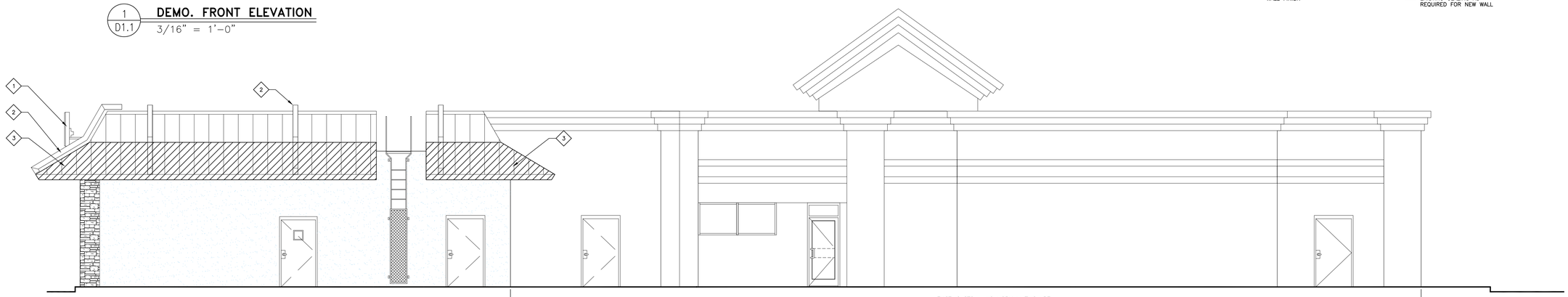
SITE ADDRESS
HIGHWAY 44 AND EXIT 189
ROLA, MO

SITE ID
024-1145

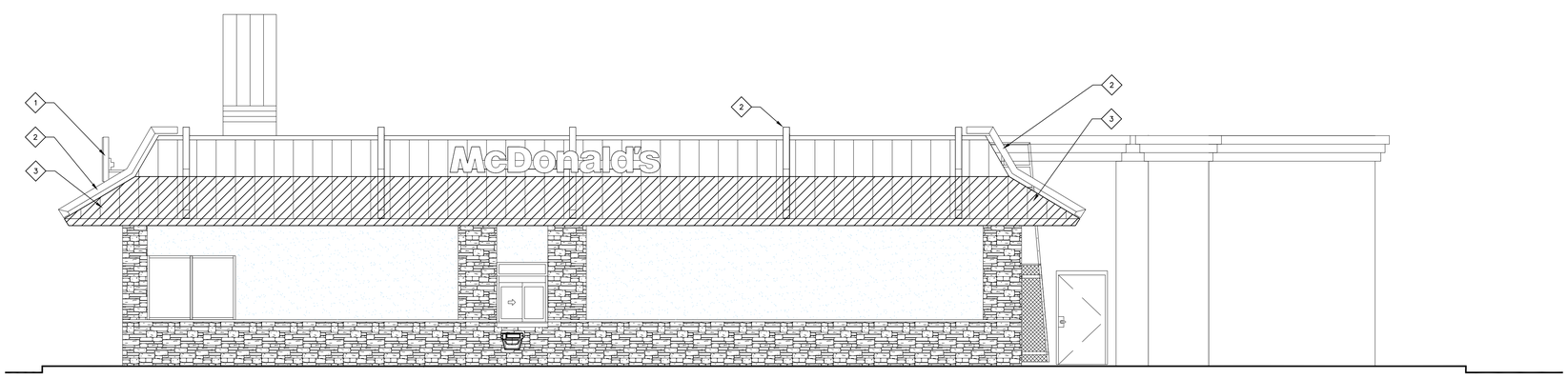
SHEET NO.
24-1145.00.0
D1.0
FLOOR PLAN



1 D1.1 **DEMO. FRONT ELEVATION**
3/16" = 1'-0"



2 D1.1 **DEMO. REAR ELEVATION**
3/16" = 1'-0"



3 D1.1 **DEMO. D/T ELEVATION**
3/16" = 1'-0"

DEMOLITION KEY NOTES:

1. REMOVE EXISTING BUILDING SIGNAGE EXTEND REUSE EXISTING SUPPORTS
2. REMOVE ALL EXISTING MANSARD LIGHT BEAMS
3. REMOVE EXISTING ROOFING AT LOWER AND UPPER PORTION OF DOUBLE MANSARD ROOF
4. REMOVE ALL LOGO STICKERS AND DECALS FROM ALL WINDOWS AND DOORS
5. REMOVE EXISTING SIGNAGE

AS NECESSARY:
REMOVE EXISTING EXTERIOR PLAYPLACE FENCING AND EXISTING SAFETY SURFACE
REMOVE EXISTING EXTERIOR TABLES AND CHAIRS
REMOVE EXISTING CONCRETE CURBS AS NECESSARY
REMOVE EXISTING EXTERIOR DECORATIVE WOOD TRIM
REMOVE EXISTING ASPHALT PARKING LOT GUARDRAILS AND BOLLARDS AS REQUIRED TO ACCOMMODATE NEW WORK

1. THESE DRAWINGS WERE PREPARED BASED ON INFORMATION ATTAINED FROM A SITE SURVEY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO DEMOLITION & NOTIFY THIS OFFICE IN CASE OF DISCREPANCIES ASAP. DEMOLITION IS TO BE EXECUTED SO AS NOT TO DISTURB EXISTING STRUCTURAL & ROOFING SYSTEMS, AND OTHER AREAS THAT ARE INTENDED TO REMAIN INTACT. VERIFY ALL CONSTRUCTION TO BE REMOVED THAT IS NOT INTEGRAL TO STRUCTURAL SYSTEM PRIOR TO DEMOLITION.

2. ALL DIMENSIONS SHOWN AS EXISTING SHOULD BE FIELD VERIFIED BY CONTRACTOR PRIOR TO DEMOLITION. VERIFY ALL DEMOLITION WORK W/ NEW CONSTRUCTION & INSTALLATION DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.

3. DEMOLITION CONTRACTOR TO COORDINATE & REVIEW ALL CONSTRUCTION DOCUMENTS & DETERMINE THE EXTENT OF DEMOLITION WORK & BECOME FAMILIAR WITH THEM THOROUGHLY BEFORE PERFORMING ANY DEMOLITION WORK. BY THE ACT OF STARTING DEMOLITION, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE THE NECESSARY ALLOWANCES IN PREPARING HIS BID.

4. ELECTRICAL DEMOLITION NOTE: REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL DEMOLITION NOTES.

5. VERIFY DISPOSITION OF ALL FURNISHINGS, MILLWORK, LIGHTING FIXTURES, ETC. TO BE REMOVED W/ OWNER. ALL ITEMS TO BE DISPOSED SHALL BE DISPOSED OF OFF-SITE AND IN AN EXPEDITIOUS MANNER.

6. ROOFING CONTRACTOR TO FIELD INSPECT EXISTING ROOF FOR WEATHER TIGHTNESS & PROPER DRAINAGE PRIOR TO BID. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING ROOF CONDITION AND FOR INCLUDING ANY NECESSARY REPAIR COSTS IN BID.

7. SAWCUT & REMOVE EXISTING SLABS AS REQUIRED FOR UNDERGROUND ELECTRICAL & PLUMBING LINES. REFER TO PLUMBING, ELECTRICAL & KITCHEN DRAWINGS FOR ALL SAWCUTS & TRENCHING WORK REQUIRED. ALL CONCRETE FLOOR WORK TO BE FINISHED FLUSH WITH EXISTING FLOOR. DOWEL NEW SLABS TO EXISTING W/ #4 REBAR @ 24" O.C. EACH SIDE (STAGGERED). REBAR TO EXTEND 6" INTO EXISTING SLAB & ACROSS CUT OPENING. SECURE REBAR INTO EXISTING SLAB W/ EPOXY GROUT. REPLACE OR REPAIR ANY VAPOR BARRIERS DISTURBED DURING EXCAVATIONS.

8. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AS REQUIRED TO MAINTAIN STRUCTURAL STABILITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

9. PROTECT FROM DAMAGE DURING CONSTRUCTION ALL EXISTING WALLS, FLOORS, CEILINGS, ETC. THAT ARE TO REMAIN. CONTRACTOR TO PATCH & REPAIR ANY DAMAGED PORTIONS OF THE EXISTING BUILDING AS REQUIRED TO MATCH THE EXISTING ADJACENT CONSTRUCTION & FINISHES.

10. THIS PLAN INDICATES A GENERAL SCOPE OF WORK TO BE PERFORMED AND DOES NOT RELIEVE THE CONTRACTOR TO COMPLETE THE BUILDING MODIFICATIONS AS SHOWN AND REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL & HVAC WORK.

11. IF CONTRACTOR ENCOUNTERS ANY HAZARDOUS MATERIALS DURING DEMOLITION OR CONSTRUCTION, HE SHALL IMMEDIATELY SUSPEND WORK & NOTIFY THE MCDONALD'S AREA CONSTRUCTION MANAGER BEFORE PROCEEDING.

12. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER & IN STRICT ACCORDANCE WITH OSHA REGULATIONS.

13. THE SUB-CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE DEMOLITION AND REMOVAL OF ANY WALLS, COUNTERS, FURNITURE, BULKHEADS, DOORS, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK AS SHOWN ON THE DRAWINGS OR AS REQUIRED TO COMPLETE THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB.

14. REMOVE ANY SINKS, WATER CLOSETS, URINALS, LAVATORIES, FLOOR DRAINS, NOTED ON DRAWINGS AS WELL AS ALL ASSOCIATED PLUMBING ACCESSORIES. CAP, PLUG ALL ABANDONED SUPPLY & WASTE LINES. PATCH & SEAL ALL FLOOR PENETRATIONS. SEE MECHANICAL & PLUMBING DRAWINGS FOR DETAILED DEMOLITION NOTES.

15. WHEN UTILITIES ARE REMOVED, CAP & SEAL A MINIMUM OF 8" BELOW FINISH FLOOR OR A MINIMUM OF 6" ABOVE FINISH CEILING.

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

PREPARED BY:
Robert Kempkes
ARCHITECT
201 CENTRAL AVE., STE 2A
HOT SPRINGS, AR 71901
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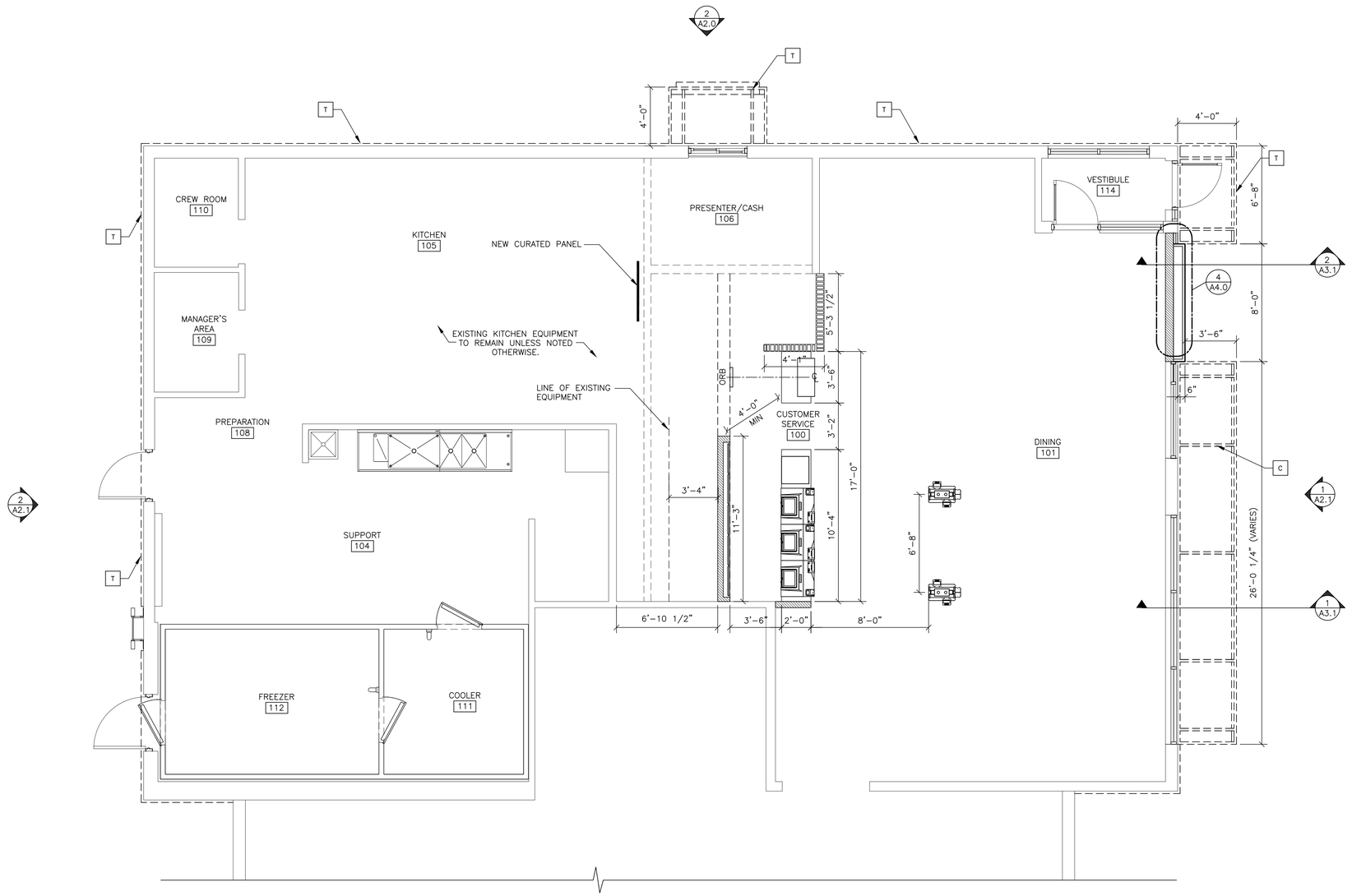
24-1145.00.0
D1.1
ELEVATIONS & NOTES



1 A1.0 **FLOOR PLAN**
1/4" = 1'-0"

GENERAL NOTES

1. SEE 6/A3.0 FOR EXTERIOR WALL ASSEMBLY TYPES.
2. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES
3. SEE SITE PLAN FOR SIDEWALKS, RAMPS, ETC.
4. GC TO PROVIDE ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY: FORREST PERMA-SIGN 1-800-214-8765
   9292 1ST ST., BOX 588 www.forrestpermasigns.com NEW ROCHELLE, NY 10802

SYMBOL LEGEND

(7) DOOR TAG – SEE DOOR SCHEDULE

[X] KEY NOTE

KEY NOTES

[C] ALUMINUM CANOPY FASCIA SYSTEM ABOVE – SEE 6/A3.0 FOR NOTES – SEE ROOF PLAN FOR DIMENSIONS

[GR] NEW GUARDRAIL – SEE 5/A3.2 – SEE SITE PLAN FOR EXACT LOCATIONS AND LENGTH

[RL] ROOF LADDER (EXISTING)

[S] NEW SIGNAGE – BY OTHERS – SEE ELEVATIONS

[SF] NEW STOREFRONT SYSTEM – SEE 7/A3.0 FOR NOTES – SEE ELEVATIONS

[T] ALUMINUM TRELLIS SYSTEM ABOVE – SEE 6/A3.0 FOR NOTES – SEE ROOF PLAN FOR DIMENSIONS

FLOOR TILE SCHEDULE

ROOM NAME		FLOOR	BASE	MORTAR SETTING BED	GROUT
100	CUSTOMER SERVICE	PORCELAIN FLOOR TILE (NOTE 1)	NONE – WALL TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
101	DINING	PORCELAIN FLOOR TILE (NOTE 1)	NONE – WALL TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
102	WOMEN'S TOILET	PORCELAIN FLOOR TILE (NOTE 1)	NONE – WALL TILE (NOTE 2A)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
103	MEN'S TOILET	PORCELAIN FLOOR TILE (NOTE 1)	NONE – WALL TILE (NOTE 2A)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
114	VESTIBULE	PORCELAIN FLOOR TILE (NOTE 1)	NONE – WALL TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT

TILE NOTES

REFERENCE: 2013 McDONALD'S PROJECT MANUAL – SECTION 09300

1. FLOOR TILE:
   MAIN & ACCENT: 6"x36",12"x24" OR 13"x20" (SIZE & SERIES MAY VARY). USE ONLY APPROVED TILE SERIES AND COLORS BY DALTILE, CROSSVILLE & EUROWEST. VERIFY COLOR AND PATTERN PER INTERIOR DECOR DRAWINGS.
   A) MUST BE PER McDONALD'S USA: STANDARDS FOR INTERIOR FLOOR TILE & APPROVED TILE LIST.
   B) MUST BE NO LARGER THAN 6"x36", 12"x24" OR 13"x20".
   C) MUST MEET THE FOLLOWING:
      STATIC COEFFICIENT OF FRICTION (PER ASTM F1667-96)
      LEVEL SURFACES: MINIMUM 0.50 DRY AND WET (McDONALD'S STANDARD)
      DYNAMIC COEFFICIENT OF FRICTION (PER ANSI A137.1 2012)
      LEVEL SURFACES: MINIMUM 0.5 DRY AND WET (McDONALD'S STANDARD)
2. TILE TRANSITION AND EDGE PROTECTION:
   A) TILE BASE (RESTROOM ONLY): SCHLUTER DILEX-AHK SERIES, BRUSHED STAINLESS STEEL.
   B) TILE EDGE PROTECTION (WALL TRANSITION): SCHLUTER-RONDEC-DB, SATIN ANODIZED ALUM.
   C) TILE CORNER PROTECTION (OUTSIDE CORNER): SCHLUTER-RONDEC-AE, SATIN ANODIZED ALUM.
   D) SEE INTERIOR DECOR DRAWINGS FOR ALL LOCATIONS.

   BEFORE FINAL INSPECTION
3. REMOVE PROTECTIVE COVERINGS AND PERFORM FINAL CLEANING.
   TILE CLEANER: DETERDEK, BY FILA SURFACE CARE PRODUCTS – NO SUBSTITUTIONS ALLOWED CAN BE ORDERED BY EUROWEST, DALTILE, OR DIRECT FROM MANUFACTURER: FILA/DETEREK
   POST INSTALLATION CLEANING REQUIRED ON ALL FLOOR TILE INSTALLTIONS PRIOR TO RESTAURANT TURN OVER. APPLY CLEANER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. REFERENCE: 2013 McDONDALDS PROJECT MANUAL – SECTION 09300 TILING INTERIOR.
5. GROUT COLOR AND MANUFACTURER AS INDICATED ON SHEET A1.0 AND INTERIOR DECOR DRAWINGS.

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

PREPARED BY: Robert Kempkes

ARCHITECT
2161 CENTRAL AVE, STE 2A
HOT SPRINGS, AR 71901
PH 501.525.0000 FAX 501.525.0679

PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
S.O.	DEC. 2017	R.K.	06-19-2018

ROLA, MO

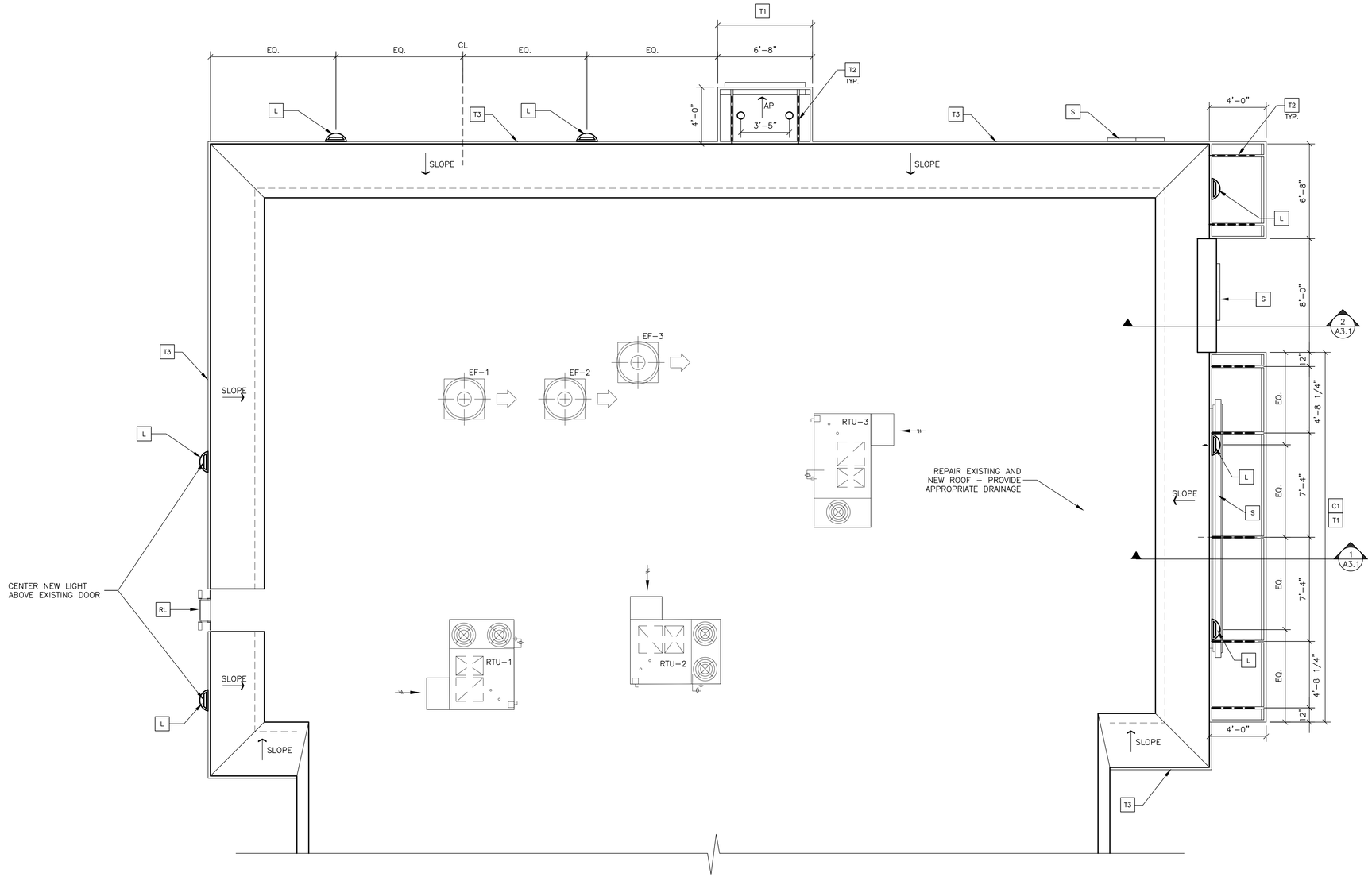
TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR – STO

DESCRIPTION

SITE ADDRESS: HIGHWAY 44 AND EXIT 189

SITE ID: 024-1145

SHEET NO. 24-1145.00.0
A1.0
FLOOR PLAN



1 A1.1 **ROOF PLAN**
1/4" = 1'-0"

KEY NOTES

- C1 NEW ALUMINUM CANOPY BY OTHERS, SEE ELEVATIONS (COLOR: WHITE)
- C2 NEW ALUMINUM CANOPY TIE-BACK BY OTHERS, SEE ELEVATIONS
- L NEW WALL SCONCE LIGHT SEE ELECTRICAL
- RL ROOF LADDER (EXISTING)
- S NEW McDONALD'S SIGNAGE BY OTHERS, SEE ELEVATIONS
- T1 NEW ALUMINUM TRELLIS BY OTHERS, SEE ELEVATIONS
- T2 NEW ALUMINUM TRELLIS TIE-BACK BY OTHERS, SEE ELEVATIONS
- T3 NEW ALUMINUM TRELLIS 2x8 WALL FASCIA BY OTHERS, SEE ELEVATIONS

LEGEND

AP TRELLIS/CANOPY SYSTEM WITH ALUMINUM INFILL PANELS. SLOPE TO EDGE @1/4" PER FT.

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

PREPARED BY:
Robert Kempkes
ARCHITECT
201 S. CENTRAL AVE., STE 2A
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PREPARED FOR:
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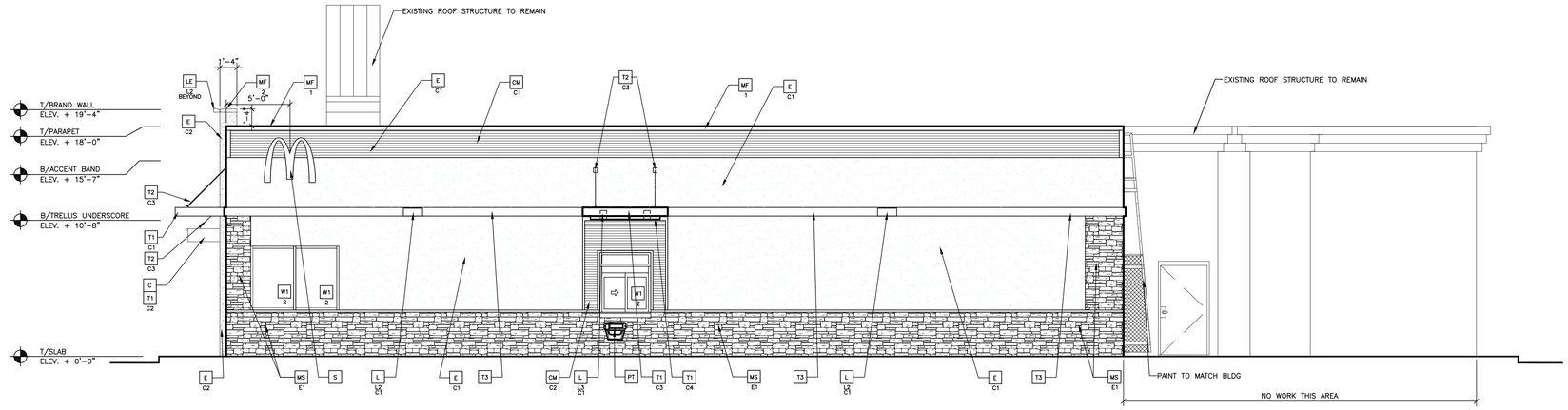
S.O.	R.K.
STD ISSUE DATE	DATE ISSUED
DEC. 2017	06-19-2018

TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR - STO
DESCRIPTION

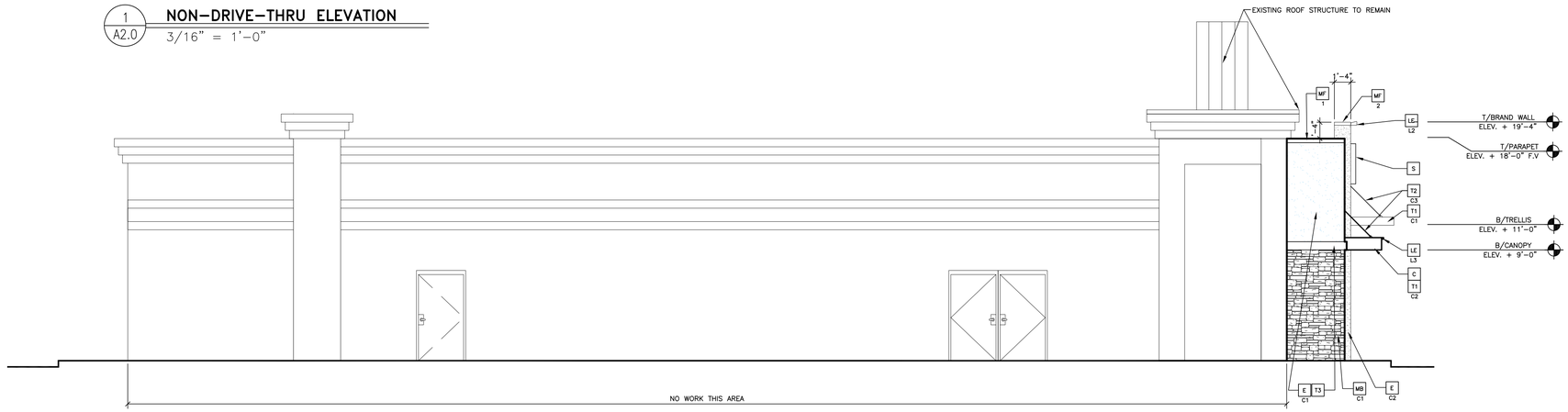
SITE ID: 024-1145
SITE ADDRESS: HIGHWAY 44 AND EXIT 189
ROLA, MO

SHEET NO.: 24-1145.00.0
A1.1
ROOF PLAN



1 A2.0 **NON-DRIVE-THRU ELEVATION**

3/16" = 1'-0"



2 A2.0 **DRIVE-THRU ELEVATION**

3/16 = 1'-0"

COLOR SCHEME: 'MODERN' SCHEME

(SEE ELEVATION KEYNOTES FOR MATERIALS AND COLOR SPECIFICATIONS)

KEY NOTES:

MS STONE
XX— TYPE:
E1 = EXISTING UNPAINTED MASONRY
C1 = PAINTED MASONRY—COLOR: CHELSEA GRAY HC-168

C ALUMINUM CANOPY FASCIA SYSTEM
COLOR: WHITE

CJ CONTROL JOINT
X — TYPE:
1 = MATCHING SPACING OF EXISTING EIFS BELOW OR SPACE PER MFR'S RECOMMENDATIONS

CM CORRUGATED METAL PANEL – SEE ASSEMBLY NOTES ON A3.0 FOR ADDITIONAL SPECIFICATIONS
XX— COLOR:
C1 = "CITYSCAPE"
C2 = "CHARCOAL GRAY" (DT WINDOW SURROUND ON UNPAINTED BRICK BASE BUILDING)

CS OUTSIDE CORNER STRIPS
RONDEC RO100TSDA BY SCHLUTER SYSTEMS
ALUMINUM; HEIGHT:10MM COLOR: DARK ANTHRACITE
CONTACT: EARL MAICUS (501) 324-3410

D HOLLOW METAL DOOR – PAINT TO MATCH COLOR OF SURROUNDING MATERIAL

E EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
'OUTSULATION PLUS MD' BY DRYVIT OR EQUAL
HIGH IMPACT ZONES: 'PANZER 20' ULTRA HIGH IMPACT MESH ASSEMBLY FOR EIFS AREAS WITHIN 8'-0" OF GRADE
FINISH: HYDROPHOPIC TEXTURE: SANDPEBBLE
XX
COLOR: STATOTONE HIGH PERFORMANCE COLORANT – MATCH TO BENJAMIN MOORE OR EQUAL
C1 = CHELSEA GRAY HC-168 BY BENJAMIN MOORE
C2 = IRON MOUNTAIN 2134-30 BY BENJAMIN MOORE

GR GUARDRAIL

L LIGHT FIXTURE – SEE ELECTRICAL
XX— TYPE:
XX L1 = UP AND DOWN SCONCE
L2 = DOWN ONLY SCONCE
L3 = RECESSED DOWN FIXTURE
COLOR:
C1 = SILVER
C2 = WHITE

LE ACCENT LIGHTING – SEE ELECTRICAL
XX—LED LIGHT:
L1 = UP AND DOWN FIXTURE
L2 = DOWN ONLY FIXTURE
L3 = INTEGRAL CANOPY FIXTURE
L4 = FLOOD LIGHT

MF METAL FASCIA (COLOR: CITYSCAPE) SEE 4/A3.2
X —TYPE:
1 = PRE-FAB ANCHOR-TITE FASCIA
2 = PRE-FAB CUSTOM ARCADE FASCIA

ML METAL LETTERING – BY OTHERS
X —TYPE:
1 = "WELCOME" – COLOR: SILVER
2 = 24"H x 3/4" THICK METAL ARCH
COLOR: PANTONE 123C

MJ MOVEMENT JOINT – DILEX BWB100GS BY SCHLUTER SYSTEMS, COLOR: BLACK

MS EXISTING MECHANICAL SCREEN

PB PIPE BOLLARD – PAINTED YELLOW

PT PASS-THRU COIN COLLECTOR – OPTIONAL (RMHC)

RO ROOF DRAIN OVERFLOW PIPE
PAINT TO MATCH SURROUNDING MATERIAL

S McDONALD'S SIGNAGE BY OTHERS – UNDER SEPARATE PERMIT. SEE SIGNAGE SUPPORT NOTE ON THIS SHEET.

TL TILE
EUROWEST: E-WOOD COLLECTION
COLOR: R9 BLACK SIZE: 6"X36" 1/4 RUNNING BOND
WATERPROOFING SETTING MATERIAL AND GROUT: BY MAPEI
GROUT COLOR: ULTRA COLOR PLUS – 47 CHARCOAL
GROUT WIDTH: 1/8" TO 3/16"
CONTACT: JAN DETER, (714) 937-7500

T1 ALUMINUM TRELLIS SYSTEM
XX—COLOR:
C1 = CITYSCAPE
C2 = WHITE
C3 = CHARCOAL
C4 = GOLD

T2 ALUMINUM TRELLIS TIE-BACK SYSTEM
XX—COLOR:
C3 = CHARCOAL

T3 ALUMINUM TRELLIS 2" x 8" WALL FASCIA SYSTEM
COLOR: CITYSCAPE

W1 NEW STOREFRONT AND GLAZING
1 1 = NEW STOREFRONT AND GLAZING – SEE ASSEMBLY NOTES
2 = EXISTING WINDOW TO REMAIN

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI — ROBERT D. KEMPKES — NUMBER A-2009012350 — ARCHITECT — 6-19-2018

PREPARED BY: Robert Kempkes
ARCHITECT
2615 ENTERPRISE AVE, STE 2A
REPUBLIC, MO 65738
FAX 866-234-8679 PHONE 866-234-8679

PREPARED FOR: McDonald's USA, LLC

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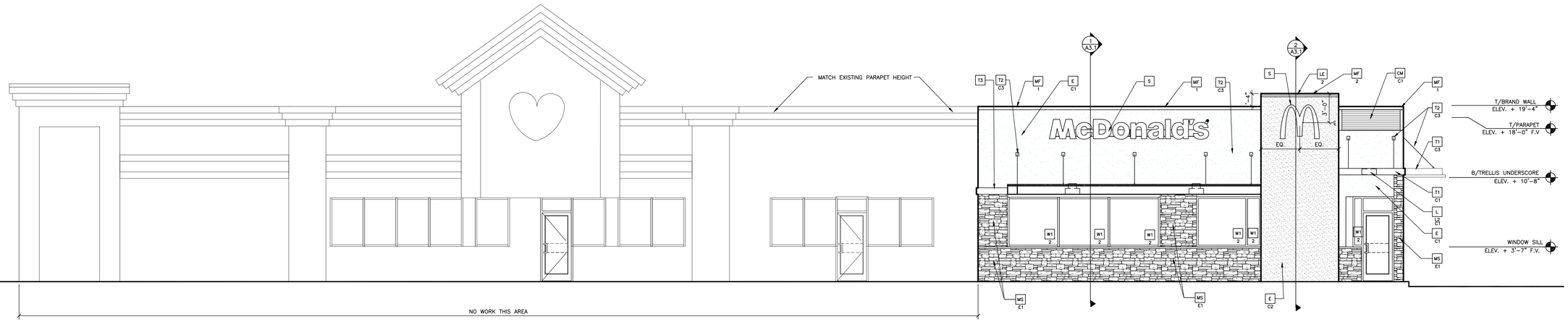
TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR – STO
DESCRIPTION

SITE ADDRESS: HIGHWAY 44 AND EXIT 189 ROLA, MO

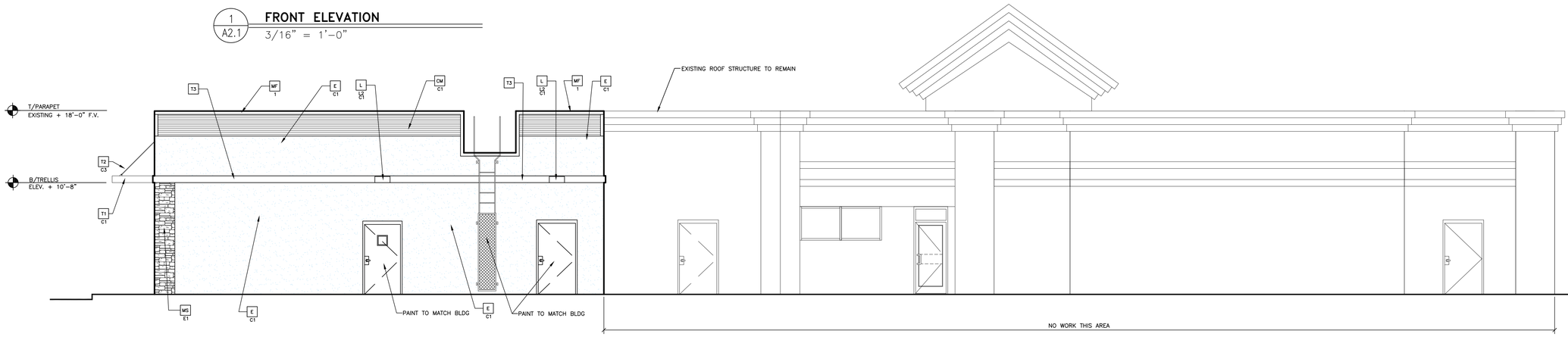
SITE ID: 024-1145

SHEET NO. 24-1145.00.0 **A2.0** EIFS ELEVATIONS



1 A2.1 **FRONT ELEVATION**

3/16" = 1'-0"



2 A2.1 **REAR ELEVATION**

3/16" = 1'-0"

COLOR SCHEME: 'MODERN' SCHEME

(SEE ELEVATION KEYNOTES FOR MATERIALS AND COLOR SPECIFICATIONS)

KEY NOTES:

- MS — STONE
  - XX — TYPE:
    - E1 = EXISTING UNPAINTED MASONRY
    - C1 = PAINTED MASONRY–COLOR: CHELSEA GRAY HC–168
- C — ALUMINUM CANOPY FASCIA SYSTEM
  COLOR: WHITE
- CJ — CONTROL JOINT
  - X — TYPE:
    - 1 = MATCHING SPACING OF EXISTING EIFS BELOW OR SPACE PER MFR'S RECOMMENDATIONS
- CM — CORRUGATED METAL PANEL – SEE ASSEMBLY NOTES ON A3.0 FOR ADDITIONAL SPECIFICATIONS
  - XX — COLOR:
    - C1 = "CITYSCAPE"
    - C2 = "CHARCOAL GRAY" (DT WINDOW SURROUND ON UNPAINTED BRICK BASE BUILDING)
- CS — OUTSIDE CORNER STRIPS
  RONDEC R0100TSDA BY SCHLUTER SYSTEMS
  ALUMINUM; HEIGHT:10MM COLOR: DARK ANTHRACITE
  CONTACT: EARL MAICUS (501) 324–3410
- D — HOLLOW METAL DOOR – PAINT TO MATCH COLOR OF SURROUNDING MATERIAL
- E — EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
  'QUTSULATION PLUS MD' BY DRYVIT OR EQUAL
  - XX — HIGH IMPACT ZONES: 'PANZER 20' ULTRA HIGH IMPACT MESH ASSEMBLY FOR EIFS AREAS WITHIN 8'–0" OF GRADE
    FINISH: HYDROPHOPIC TEXTURE: SANDPEBBLE
    COLOR: STATOTONE HIGH PERFORMANCE COLORANT – MATCH TO BENJAMIN MOORE OR EQUAL
    - C1 = CHELSEA GRAY HC–168 BY BENJAMIN MOORE
    - C2 = IRON MOUNTAIN 2134–30 BY BENJAMIN MOORE
- GR — GUARDRAIL
- L — LIGHT FIXTURE – SEE ELECTRICAL
  - XX — TYPE:
    - L1 = UP AND DOWN SCONCE
    - L2 = DOWN ONLY SCONCE
    - L3 = RECESSED DOWN FIXTURE
    - COLOR:
      - C1 = SILVER
      - C2 = WHITE
- LE — ACCENT LIGHTING – SEE ELECTRICAL
  - XX — LED LIGHT:
    - L1 = UP AND DOWN FIXTURE
    - L2 = DOWN ONLY FIXTURE
    - L3 = INTEGRAL CANOPY FIXTURE
    - L4 = FLOOD LIGHT
- MF — METAL FASCIA (COLOR: CITYSCAPE) SEE 4/A3.2
  - X — TYPE:
    - 1 = PRE–FAB ANCHOR–TITE FASCIA
    - 2 = PRE–FAB CUSTOM ARCADE FASCIA
- ML — METAL LETTERING – BY OTHERS
  - X — TYPE:
    - 1 = "WELCOME" – COLOR: SILVER
    - 2 = 24"H x 3/4" THICK METAL ARCH
      COLOR: PANTONE 123C
- MJ — MOVEMENT JOINT – DILEX BWB100GS BY SCHLUTER SYSTEMS, COLOR: BLACK
- MS — EXISTING MECHANICAL SCREEN
- PB — PIPE BOLLARD – PAINTED YELLOW
- PT — PASS–THRU COIN COLLECTOR – OPTIONAL (RMHC)
- RO — ROOF DRAIN OVERFLOW PIPE
  PAINT TO MATCH SURROUNDING MATERIAL
- S — McDONALD'S SIGNAGE BY OTHERS – UNDER SEPARATE PERMIT. SEE SIGNAGE SUPPORT NOTE ON THIS SHEET.
- TL — TILE
  EUROWEST: E–WOOD COLLECTION
  COLOR: R9 BLACK SIZE: 6"X36" 1/4 RUNNING BOND
  WATERPROOFING SETTING MATERIAL AND GROUT: BY MAPEI
  GROUT COLOR: ULTRA COLOR PLUS – 47 CHARCOAL
  GROUT WIDTH: 1/8" TO 3/16"
  CONTACT: JAN DETER, (714) 937–7500
- T1 — ALUMINUM TRELLIS SYSTEM
  - XX — COLOR:
    - C1 = CITYSCAPE
    - C2 = WHITE
    - C3 = CHARCOAL
    - C4 = GOLD
- T2 — ALUMINUM TRELLIS TIE–BACK SYSTEM
  - XX — COLOR:
    - C3 = CHARCOAL
- T3 — ALUMINUM TRELLIS 2" x 8" WALL FASCIA SYSTEM
  COLOR: CITYSCAPE
- W1 — NEW STOREFRONT AND GLAZING
  - 1 — 1 = NEW STOREFRONT AND GLAZING – SEE ASSEMBLY NOTES
    - 2 = EXISTING WINDOW TO REMAIN

NO.	DESCRIPTION	DATE	BY
REV			

STATE OF MISSOURI
ROBERT D KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

PREPARED BY:
Robert Kempkes
ARCHITECT
20 FOUNTAIN LAKE, STE 2A
IRON SPRINGS, AR 71965-6679
PHONE 501-625-4679
FAX 501-625-4679

PREPARED FOR:
McDonald's USA, LLC

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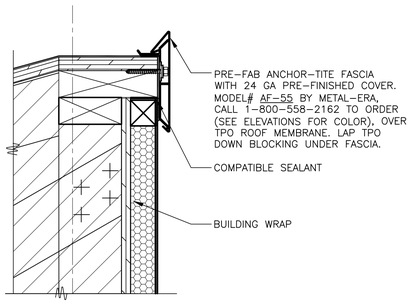
TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR – STO
DESCRIPTION

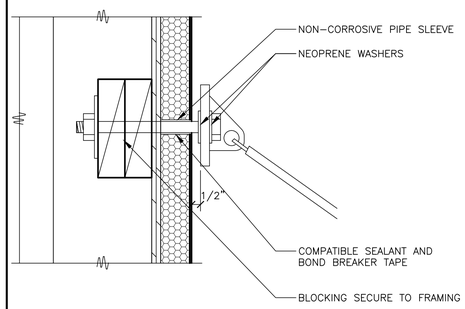
DRAWN BY	MP
STD ISSUE DATE	DEC. 2017
REVIEWED BY	R.K.
DATE ISSUED	06–19–2018
SITE ADDRESS	HIGHWAY 44 AND EXIT 189 ROLA, MO
SITE ID	024–1145

SHEET NO. 24–1145.00.0
A2.1
EIFS ELEVATIONS



1 A3.0 **FASCIA DETAIL**
3" = 1'-0"

2 A3.0 **NOT USED**
–



3 A3.0 **TIEBACK DETAIL**
3" = 1'-0"

4 A3.0 **NOT USED**
–

5 A3.0 **NOT USED**
–

EXTERIOR WALL ASSEMBLY 1

FROM EXTERIOR TO INTERIOR

1. 2" CULTURED STONE W/NON-CORROSIVE METAL TIES @ 16" O.C. VERTICALLY AND 32" O.C. HORIZONTALLY. MORTAR COLOR TO BE STANDARD GRAY.
2. AIR SPACE – SIZE VARIES ACCORDING TO OVERALL WALL WIDTH.
3. PERMEABLE BUILDING WRAP OVER EXTERIOR GRADE PLYWOOD. INSTALL PER LOCAL CODES AND MANUFACTURERS SPECIFICATIONS.
4. 2X6 WOOD STUD FRAMING @ 16" O.C. (WITH CONTINUOUS DRAFTSTOP/FIRESTOP BLOCKING AT FINISH CEILING LEVEL).
5. KRAFT FACED BATT INSULATION (R VALUE = 19).
6. IMPERMEABLE VAPOR BARRIER (REVISE PER REGIONAL REQUIREMENTS.)
7. WALL BASE: 1/2" CEMENT BOARD 12" IN HEIGHT. ABOVE BASE EXTENDING TO STRUCTURE ABOVE: 1/2" USG "SHEETROCK BRAND MOLD TOUGH" GYPSUM PANELS OR 1/2" PLYWOOD BACKUP AS INDICATED ON THE ROOM FINISH SCHEDULE.

   ANY GYPSUM PANEL SUBSTITUTIONS MUST SORE 10 PER ASTM D3273.
8. SEE FINISH & PARTITION SCHEDULE

NEW EXTERIOR WALL ASSEMBLY 2

FROM EXTERIOR TO INTERIOR

1. DRAINAGE E.I.F.S. SYSTEM (NOT BARRIER) CONSISTING OF 1-1/2" INSULATION MECHANICALLY FASTENED OVER PERMEABLE MEMBRANE WITH OPEN WEAVE HIGH IMPACT FIBER REINFORCING MESH OVER EXTERIOR GRADE PLYWOOD. PROVIDE CORRUGATED PLASTIC DRAINAGE STRIP AT BOTTOM OF THE PANEL WITH PVC J CHANNELS WITH WEEP HOLES. INSTALL PER LOCAL CODES AND MANUFACTURERS SPECIFICATIONS.
2. 2X6 PRESSURE TREATED STUD FRAMING @ 16" O.C. ANCHORED TO EXTERIOR WALL ASSEMBLY 1 – SEE STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS.

NEW EXTERIOR WALL ASSEMBLY 3

CORRUGATED METAL PANEL SYSTEM

1. CORRUGATED METAL PANELS WITH RAIN DRAINAGE WORK, FLASHING, TRIM, PARAPET WALLS AND OTHER ADJOINING WORK TO PROVIDE A LEAK-PROOF, SECURE AND NON-CORROSIVE INSTALLATION. PREFORMED 7/8" PANELS SHALL BE FABRICATED OF 24 GA STEEL*, PANELS ARE LAPPABLE. PANEL HT: 26 3/4" COLOR SHALL BE PER ELEVATIONS. FINISH SHALL BE KYNAR 500, ACCESSORIES/FASTENERS: ALL FASTENERS SHALL BE APPLIED IN ACCORDANCE WITH THE FASTENING SCHEDULE AS PROVIDED BY PANEL MANUFACTURER. FINISH AND COLOR TO MATCH WALL PANEL. APPLY SEALANT TAPE OR CAULKING AS NECESSARY AT FLASHING AND PANEL JOINTS TO PREVENT WATER PENETRATION.
   A. CUTS MADE TO PANELS IN THE FIELD SHALL BE DONE WITH A "COLD CUT" PROCESS ONLY, I.E. POWER NIBBLER. HEAT OR FRICTION CUT WITH AN ABRASSIVE OR BLADE SHALL NOT BE USED.
   B. WHERE HORIZONTAL CUTS ALONG THE LENGTH OF THE PANEL ARE MADE, CARE SHOULD BE TAKEN TO MAKE THE CUTS AT THE TOP OF THE PANEL, WHERE IT IS CONCEALED BY THE FASCIA, VERTICAL CUTS ALONG THE HEIGHT OF THE PANEL SHALL BE LAPPED UNDER AN ADJOINING PANEL OR CONCEALED UNDER TRIM I.E. "J" TRIM AT CORNERS.
2. ICE AND WATER SHEILD (ALT. #30 FELT) ON
3. 1/2" EXT GRADE PLYWOOD ON 2X WOOD STUDS @16" O.C.

CORRUGATED PANEL, FASCIAS, CLOSURES & FASTENERS BY:
METAL-ERA (800) 558-2162 www.metalera.com

NEW EXTERIOR WINDOW ASSEMBLY

(STOREFRONT & ENTRANCE SYSTEM)

1. CLEAR ANODIZED ALUMINUM FRAME, THERMALLY BROKEN WITH HEAD RECEIVER CHANNEL.
2. 1" INSULATED GLAZING – SET EXT ELEVATIONS FOR LOCATION OF SAFETY GLASS.
3. PROVIDE FLASHING AT HEAD & SILL – CONTINUOUS SEALANT
4. PROVIDE METAL CAP @ EXTERIOR BRICK SILL
5. 1/2" CORIAN SILL AT INTERIOR

CANOPY SYSTEMS

CANOPY INFORMATION SHOWN IN CONSTRUCTION DOCUMENTS IS FOR DESIGN INTENT ONLY. APPROVED MANUFACTURERS SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FINAL DESIGN.

1. WALL FASCIA: CONT. 2"X8" ANODIZED ALUM. TUBE
   CANOPY FASCIA: CONT. 12"H WHITE PAINTED ALUM. W/ LED DOWN-LIGHT FIXTURE OVER 2"X8" ALUM. TUBE.
2. OUTRIGGERS (CANOPY): PAINTED 2"X8" ALUMINUM TUBE
3. TIEBACKS: PAINTED ALUM. THREADED RODS BY MFR. LOCATIONS AS INDICATED ON ROOF PLAN. FINAL LOCATIONS AND QUALITY SHALL BE AS INDICATED ON TRELLIS INSTALLATION DRAWINGS. COLOR CHARCOAL.
4. CANOPY INFILL: WHERE INDICATED ON ROOF PLAN, PROVIDE ANODIZED ALUM. PANEL INFILL WHITE PAINTED ALUM. PANEL INFILL TO PROVIDE POSITIVE SLOPE FOR DRAINAGE.
5. SYSTEM SHALL ALLOW FOR MOVEMENT AT EXPANSION JOINTS AND FOR MOVEMENT OF EXTERIOR WALL SYSTEM ON WHICH THE CANOPY IS MOUNTED.
6. STRUCTURAL ATTACHMENTS & LOAD CALCULATIONS SHALL BE FURNISHED BY CANOPY SYSTEM DESIGNER OF RECORD. SUPPLIER'S DESIGNER OF RECORD SHALL DESIGN PER PREVAILING CODES.
7. CANOPY SYSTEM MAY BE SELECTED FROM ONE OF THE SUPPLIERS LISTED BELOW.
8. MANUFACTURER SHALL PROVIDE INSTALLER WITH INSTALLATION INSTRUCTIONS. MANUFACTURER SHALL DESIGN CANOPY IN ACCORDANCE WITH THE WALL SYSTEM AND BLOCKING AS INDICTED IN THE CONSTRUCTION DOCUMENTS.
9. MANUFACTURER SHALL PROVIDE INSTALLER AND ARCHITECT OF RECORD WITH SHOP DRAWINGS PRIOR TO FABRICATION.
10. INSTALLER SHALL NOTIFY CANOPY DESIGNER OF RECORD, McDONALD'S ACM, G.C. AND ARCHITECT OF ANY DEFICIENCIES THAT WOULD NOT ALLOW FOR THE PROPER INSTALLATION OF THE CANOPY. CANOPY SHALL NOT BE INSTALLED UNTIL DEFICIENCIES HAVE BEEN CORRECTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE TRELLIS MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CANOPY SYSTEM BY:
GREENHECK (715) 355-2435 ALL-LITE (817) 509-2300
architectural@greenheck.com www.allite.com
www.greenheck.com

AWNEX (770) 704-7140
www.awnexinc.com

WHITE CANOPY FASCIA & LED LIGHTING BY:
EVERBRITE (888) 857-4078 PERSONA (800) 843-9888
www.everbrite.com www.personasigns.com

6 A3.0 **EXTERIOR WALL SYSTEMS**

NO.	DESCRIPTION	DATE	BY

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

PREPARED BY:
Robert Kempkes
ARCHITECT
2615 CENTRAL AVE. STE 2A
BOLT SPRINGS, AR 72903
PH (417) 862-6778 FAX (417) 862-6779

PREPARED FOR:
McDonald's USA, LLC

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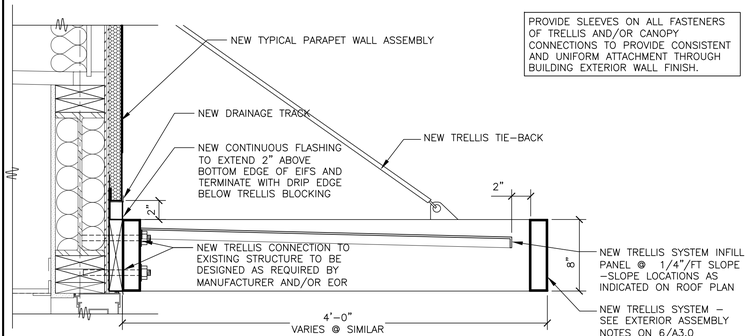
DRAWN BY	REVIEWED BY	DATE ISSUED
S.O.	R.K.	06-19-2018
STD ISSUE DATE DEC. 2017		

TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR – STO
DESCRIPTION

SITE ADDRESS: HIGHWAY 44 AND EXIT 189 ROLA, MO

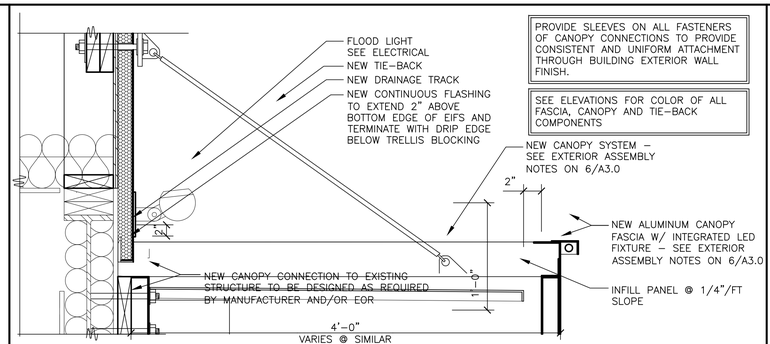
SITE ID: 024-1145

SHEET NO. 24-1145.00.0
A3.0
SECTIONS



4 A3.1 **TRELLIS SYSTEM DETAIL**

1 1/2" = 1'-0"

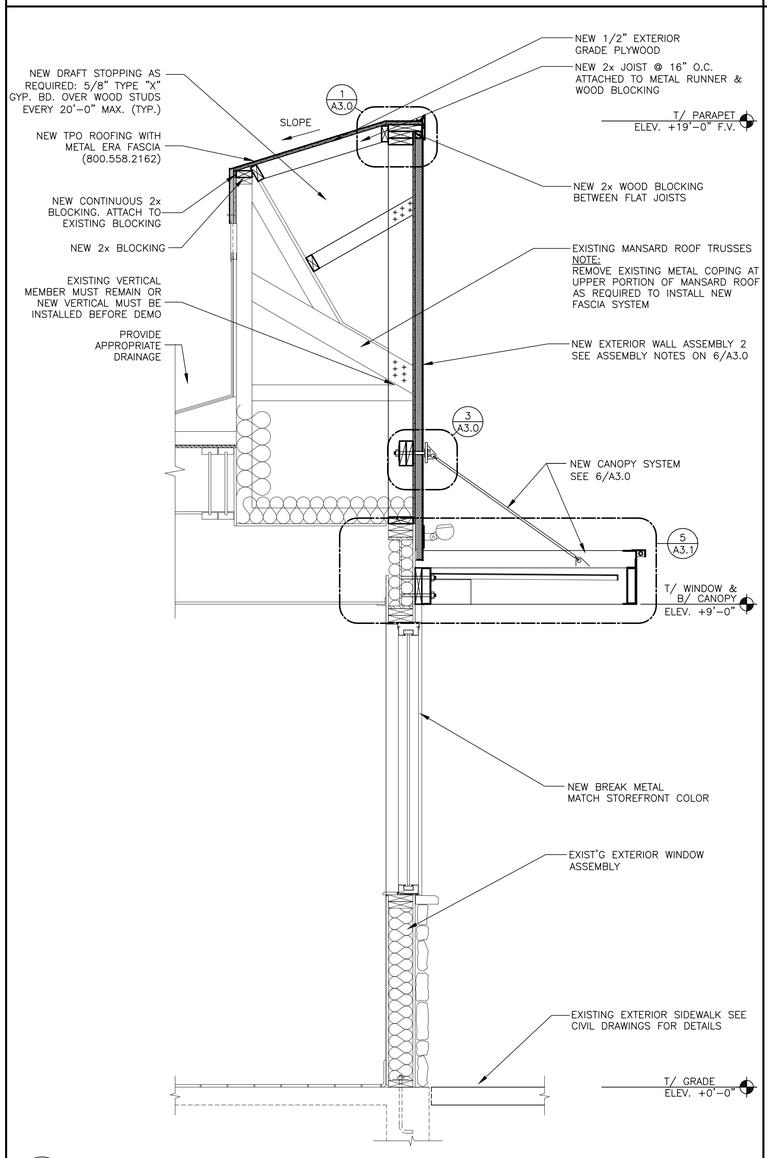


5 A3.1 **CANOPY SYSTEM DETAIL**

1 1/2" = 1'-0"

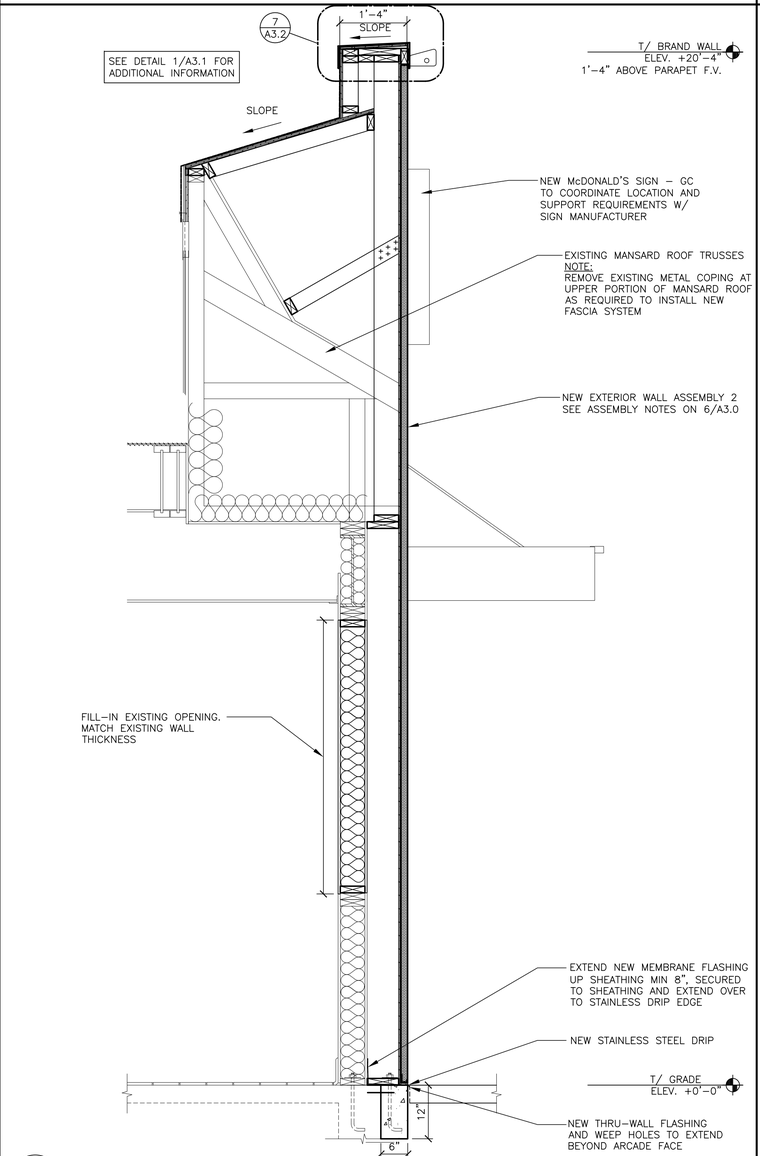
6 A3.1 **NOT USED**

-



1 A3.1 **SECTION - DINING**

3/4" = 1'-0"



2 A3.1 **SECTION - FRONT ENTRANCE BRAND WALL**

3/4" = 1'-0"

3 A3.1 **NOT USED**

-

REV	DATE	DESCRIPTION	BY

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2006012350
ARCHITECT
6-19-2018

PREPARED BY:
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FAX 573.426.6680

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McDonald's USA, LLC

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SITE ADDRESS: HIGHWAY 44 AND EXIT 189 ROLA, MO

SITE ID: 024-1145

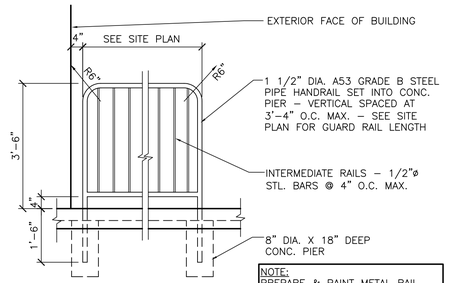
24-1145.00.0

SHEET NO. **A3.1**

SECTIONS

4 A3.2 **NOT USED**

–

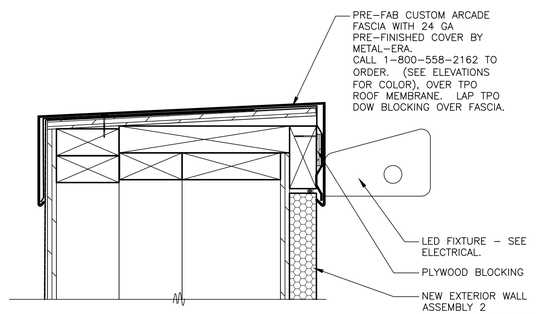


5 A3.2 **GUARDRAIL DETAIL**

1/2"= 1'–0"

6 A3.2 **NOT USED**

–



7 A3.2 **LED FIXTURE DETAIL**

1–1/2" = 1'–0"

1 A3.2 **NOT USED**

–

2 A3.2 **NOT USED**

–

3 A3.2 **NOT USED**

REV	DATE	DESCRIPTION	BY

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

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CORE 16 EXTERIOR – STO

DESCRIPTION

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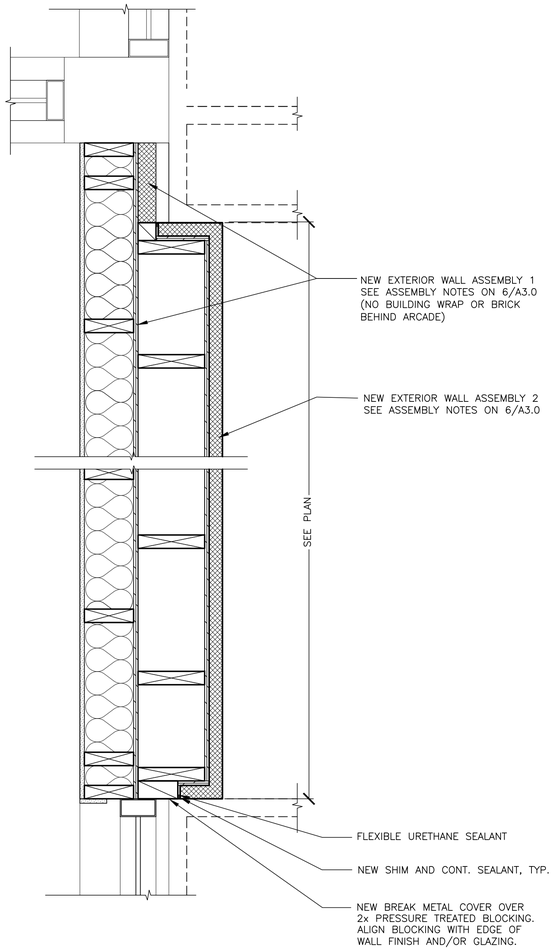
SITE ADDRESS: HIGHWAY 44 AND EXIT 189
ROLA, MO

SHEET NO.
24–1145.00.0
A3.2
SECTIONS

1 A4.0 **NOT USED**

2 A4.0 **NOT USED**



NOTE:
SEE FLOOR PLANS FOR
ADDITIONAL DIMENSIONS.

NOTE:
REVISE AND/OR ADJUST PER
FIELD/DESIGN REQUIREMENTS.

3 A4.0 **DETAIL AT BRAND WALL**
1 1/2" = 1'-0"

4 A4.0 **NOT USED**

5 A4.0 **NOT USED**

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

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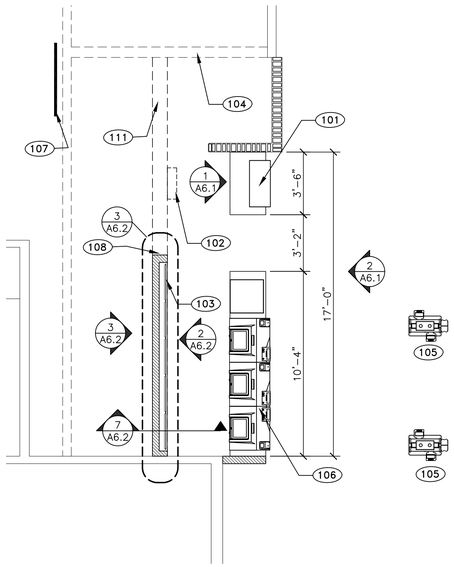
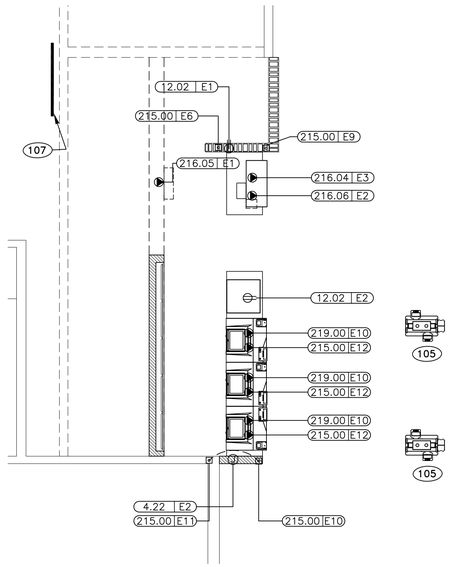
2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR - STO
DESCRIPTION

SITE ID 024-1145
SITE ADDRESS HIGHWAY 44 AND EXIT 189
ROLA, MO

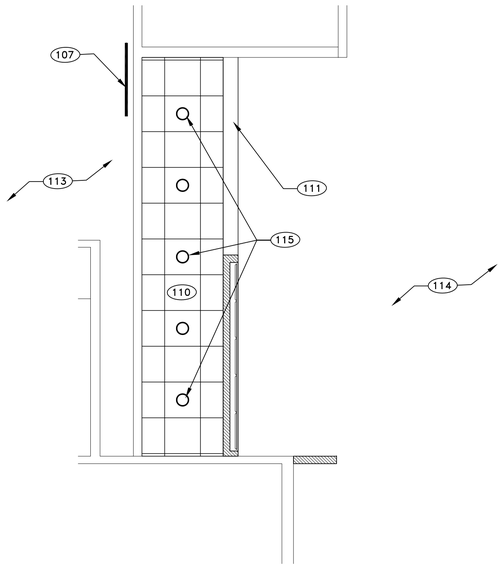
SHEET NO.
24-1145.00.0
A4.0
WALL DETAILS



1 A6.0 **PARTIAL FLOOR PLAN**
1/4"=1'-0"



2 A6.0 **MFC & IDMB ELECTRICAL PLAN**
1/4"=1'-0"



3 A6.0 **PARTIAL RCG PLAN**
1/4"=1'-0"

PLAN CONSTRUCTION NOTES:

101 DUAL POINT PICK-UP SHELF, MAKE FLUSH FOR ADA COMPLIANCE.

102 ORB COMPUTER ABOVE, VERIFY LOCATION IN CEILING.

103 INSTALL NEW RECESSED PORTRAIT DIGITAL MENU BOARD.

104 EXISTING MENU BOARD VALANCE TO REMAIN.

105 PROVIDE WIRING & DATA FOR INSTALLATION OF ORDER KIOSK, VERIFY LOCATIONS WITH DECOR COMPANY. SEE ELECTRICAL SHEETS FOR MORE INFO.

106 NEW MODULAR FRONT COUNTER PER DECOR PLANS.

107 CURATED PANEL @ HLS/HLZ PER DECOR PLANS.

108 PROVIDE FRP: MARLITE S490 LIGHT GREY ON KITCHEN SIDE.

109 G.C. TO PROVIDE 4"x4"x5' -0" HIGH STAINLESS STEEL CORNER GUARDS AT ALL EXPOSED LOCATIONS IN KITCHEN/SUPPORT AREA. CORNER GUARDS TO START AT FINISH FLOOR. ATTACH WITH WOOD SCREWS INTO WOOD BLOCKING BULLNOSE COVE BASE WHERE TILE MEETS STAINLESS STEEL CORNER.

110 PATCH AND REPAIR EXISTING CEILING AND TRANSITIONS AS REQUIRED FOR NEW WALL CONFIGURATION.

111 BOTTOM OF NEW MENU VALANCE @ 6' -8" A.F.F.

112 NOT USED.

113 EXISTING CEILING GRID TO REMAIN.

114 CUSTOMER AREA CEILING PER DECOR PLANS.

115 NEW LIGHT FIXTURE, MATCH EXISTING.

COORDINATE ALL LOCATIONS OF DIGITAL MENU BOARDS, POS STATIONS, AND DUAL POINT EQUIPMENT WITH ACM/OWNER

NOTE:
QUANTITY OF POS STATIONS ARE SHOWN FOR BRAND STANDARD SPACING ONLY. COORDINATE EXACT NUMBER OF POS STATIONS WITH OWNER/ACM PRIOR TO BID.

DUAL POINT RESPONSIBILITY INSTRUCTIONS:

- G.C. TO INSTALL THREADED ROD FOR ORB, SIGNS, AND PICKUP SHELF /PLATFORM
- KES DELIVERS DUAL POINT EQUIPMENT APPROXIMATELY 2 WEEKS BEFORE RESTAURANT OPENING
- KES TO PERFORM EQUIPMENT INSTALLATION OF DUAL POINT EQUIPMENT
- POS SHIPS DUAL POINT TECHNOLOGY HARDWARE APPROXIMATELY 2 WEEKS BEFORE RESTAURANT OPENING.
- POS PERFORMS DUAL POINT HARDWARE AND sonWARE INSTALLATION AS PART OF FULL POS INSTALLATION

FOR INSTALLATION INSTRUCTIONS
CONTACT: BR METAL TECHNOLOGIES
1-800-249-5482

NOTES:
1. POS PLACEMENT SHALL BE COORDINATED AND APPROVED BY O/O AND ACM PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL LOCATE AND VERIFY FLOOR SINK AT EXISTING ABS. TIE SSBB NEW DRAIN LINE INTO NEAREST CONNECTION POINT AS REQUIRED.
3. CONNECTIONS TO FLOOR DRAINS TO HAVE "AIR GAP" FITTINGS
4. COORDINATE WITH Meo ACM PRIOR TO ORDERING MATERIAL FOR EXACT DIMENSIONS DESIRED FOR DIGITAL MENU BOARDS AND QUANTITY OF DIGITAL MENU BOARDS.
5. ALL HEADER AND WALL PENETRATIONS FOR CONDUITS OR OTHER ELECTRICAL ROUTING MUST BE SEALED TIGHT

AS-BUILT VERIFICATION

THIS PROJECT INVOLVES WORKING WITH PREVIOUSLY CONSTRUCTED BUILDING COMPONENTS. EXISTING STRUCTURAL DRAWINGS WERE UNAVAILABLE TO ARCHITECT PRIOR TO BID. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS (LOCATIONS AND CONDITION OF WALLS, COLUMNS, BEAMS, MECHANICAL, ELECTRICAL, PLUMBING, ETC.) AND LAYOUT PLAN PRIOR TO PERFORMING ANY CONSTRUCTION. IF THERE ARE ANY DISCREPANCIES AS TO ACTUAL CONDITIONS AS TO WHAT IS SHOWN HEREIN OR IF PLAN DOES NOT LAY OUT AS INTENDED, CONTACT THE ARCHITECT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED.

DUAL POINT PREPARATION NOTES:

1. ADD POWER FOR ORB COMPUTER AND RECEIPT SCANNER OUTLETS UNDER COUNTER
2. ADD POWER OVERHEAD WHERE ORB MONITOR WILL BE INSTALLED AT FACE OF SOFFIT. V.I.F.
3. ALL CABLES EXTENDING FROM KEYSTATION EQUIPMENT ARE TO BE NEATLY BUNDLED, RUN ON TOP OF COUNTER SURFACE, SECURED TO UNDERSIDE, AND PLUGGED INTO DESIGNATED RECEPTACLES. PERMANENT HOLES IN CORIAN ARE NOT TO BE DRILLED PENDING A FUTURE DECISION ON ALTERNATIVE KEYSTATION POSITIONING ON COUNTER.

DIGITAL MENU BOARD (DMB) INSTALLATION NOTES:

1. DMB SUPPORT EQUIPMENT INCLUDES:
   - NETWORK MANAGEMENT DEVICE (NMD)
   - 24 PORT ENHANCED WAYPORT SWITCH (EWS)

   THIS EQUIPMENT IS MOUNTED IN MANAGER'S OFFICE FOR EXISTING BUILDINGS.
2. DMB INSTALLERS TO ROUTE CONTROL WIRES FROM NMD/EWS ABOVE CEILING TO MENU BOARD VALANCE WALL. WIRES TO EXIT WALL BEHIND EITHER FURTHEST LEFT OR FURTHESTRIGHT DMB SECTION AS CONDUCIVE TO SITE CONDITIONS.
3. EACH DMB SECTION REQUIRES A DEDICATED MEDIA PLAYER MOUNTED BEHIND THE DMB UNIT.
4. ALL HEADER AND WALL PENETRATIONS FOR CONDUITS OR OTHER ELECTRICAL ROUTING MUST BE SEALED TIGHT.

x = Optional Equipment
GC = General Contractor
R = Relocated Equipment
VIF = Verify in Field

EQUIPMENT SCHEDULE

ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
1.09		V.I.F.	MODULAR FRONT COUNTER POS POD	DECOR	MFC-POS	–	2	GC	–	
1.11		V.I.F.	MODULAR FRONT COUNTER OVERSHELF – 36"	DECOR	MFC-OS-36	–	2	GC	–	
1.18		V.I.F.	MODULAR FRONT COUNTER BASE – 84"	DECOR	MFC-84	–	2	GC	–	
1.26		V.I.F.	MODULAR FRONT COUNTER BASE – 96"	DECOR	MFC-96	–	2	GC	–	
2.05		V.I.F.	UNDER COUNTER CART – 24"W x 18"D FRONT COUNTER	INTERMETRO	UC18-DMS	–	2	KES	–	
2.10		V.I.F.	BAG/NAPKIN STOCK CART	INTERMETRO	MCD-DP1430B	–	2	KES	–	
2.11		V.I.F.	CUP AND LID SLEEVE STOCK CART	INTERMETRO	MCD-DP1830CS	–	2	KES	–	
215.00		V.I.F.	POS REGISTER – FRONT COUNTER	BY OWNER	BY OWNER	OEM	–	OWNER	INCLUDES MONITOR AND CPU	
216.04		V.I.F.	ORB MINI MONITOR	BY OWNER	BY OWNER	–	–	OWNER	UNDER COUNTER BRACKET BY POS SUPPLIER	
216.05		V.I.F.	ORB MONITOR	BY OWNER	BY OWNER	–	–	OWNER	MOUNTING KIT PROVIDED BY KES	
216.06		V.I.F.	ORB SCANNER	BY OWNER	BY OWNER	–	–	OWNER	UNDER COUNTER BRACKET BY POS SUPPLIER	
219.00		V.I.F.	POS – RECEIPT PRINTER	BY OWNER	BY OWNER	OEM	–	OWNER	–	

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
004.22E2	V.I.F.	DIGITAL INTERUPT PANEL	–	–	–	1/2"C	–	JB	ABOVE CLG.	EC TO PROVIDE JB WITH BLANK COVER PLATE AND 1/2" EMPTY CONDUIT TO 4.20E3
012.02E1	V.I.F.	BAKED GOODS DISPLAY CASE – 22"	120/1	2.5	15A	1/2"C-2#12	AP-3:1	5-15R	1'-6"	–
012.02E2	V.I.F.	BAKED GOODS DISPLAY CASE – 22"	120/1	2.5	15A	1/2"C-2#12	AP-3:1	5-15R	SEE RMKS	PROVIDE RECEP. IN COUNTER-MOUNTED RACEWAY
211.00E1	V.I.F.	DELIVERY TABLET	120/1 ISOLATED	1.5	20A	1/2"C-2#12IG	CP:21	IG5262	SEE RMKS	TABLET LOCATED HERE IN ASSEMBLY AREA AFTER FULL POS INTEGRATION. VERIFY EXACT MOUNTING LOCATION IN FIELD.
211.00E2	V.I.F.	DELIVERY TABLET	120/1 ISOLATED	1.5	20A	1/2"C-2#12IG	CP:4	SEE RMKS	SEE RMKS	TABLET LOCATED HERE AT FRONT COUNTER UNTIL FULL POS INTEGRATION. POWER FROM SAME RECT. AS 219.00E10 VIA TWIST-LOCK ADAPTER PROVIDED WITH UNIT.
213.00E8	V.I.F.	TABLE LOCATOR SYSTEM	120/1 ISOLATED	2.6	20A	1/2"C-2#12IG	CP:21	SEE RMKS	4'-0"	TSS SERVER, COORDINATE WITH MANUFACTURERS REQUIREMENTS
215.00E10	V.I.F.	POS REGISTER – FRONT COUNTER	DATA CABLE	–	–	–	–	4x4x4 PB	1'-2"	EXTEND 2 1/2" CONDUIT TO 215.00E11 FOR POS DATA CABLES
215.00E11	V.I.F.	POS REGISTER – FRONT COUNTER	DATA CABLE	–	–	–	–	4x4x4 PB	1'-2"	EXTEND 2 1/2" CONDUIT TO ABOVE CEILING AND TO 215.00E10 FOR POS DATA CABLES
215.00E12	V.I.F.	POS REGISTER – FRONT COUNTER	120/1 ISOLATED	3.0 EA.	–	3/4"C-2#12IG	CP:19	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY
215.00E6	V.I.F.	POS REGISTER – FRONT COUNTER	DATA CABLE	–	–	–	–	4x4x4 PB	1'-2"	EXTEND 2 1/2" CONDUIT UNDER SLAB TO 215.00E7 FOR POS DATA CABLES
216.04E3	V.I.F.	ORB MONITOR (MINI)	120/1 ISOLATED	1.5 EA.	20A	3/4"C-2#12IG	CP:4	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY
216.05E1	V.I.F.	ORB MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C-2#12IG	CP:4	IG4700	FLUSH ON CLG	–
216.06E2	V.I.F.	ORB SCANNER	120/1 ISOLATED	1.5 EA.	20A	3/4"C-2#12IG	CP:4	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY
219.00E10	V.I.F.	POS – RECEIPT PRINTER	120/1 ISOLATED	0.7	20A	3/4"C-2#12IG	CP:4	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
ARCHITECT
6-19-2018

PREPARED BY:
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DRAWN BY: MP
STD ISSUE DATE: DEC. 2017
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DATE ISSUED: 06-19-2018

SITE ADDRESS: HIGHWAY 44 AND EXIT 189
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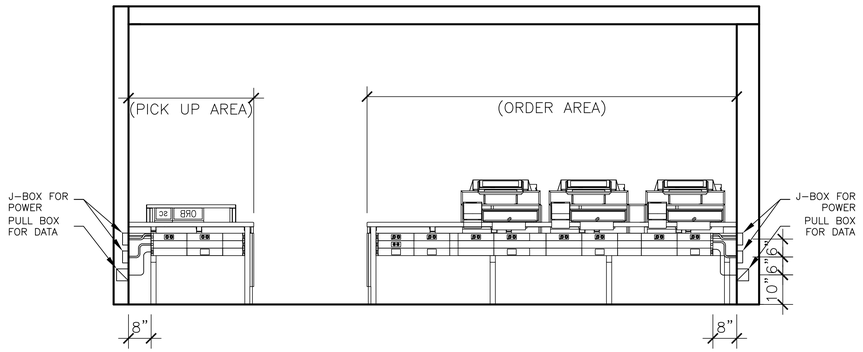
TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR – STO

SITE ID: 024-1145
DESCRIPTION

SHEET NO.: 24-1145.00.0
A6.0
SAM FLOOR PLAN

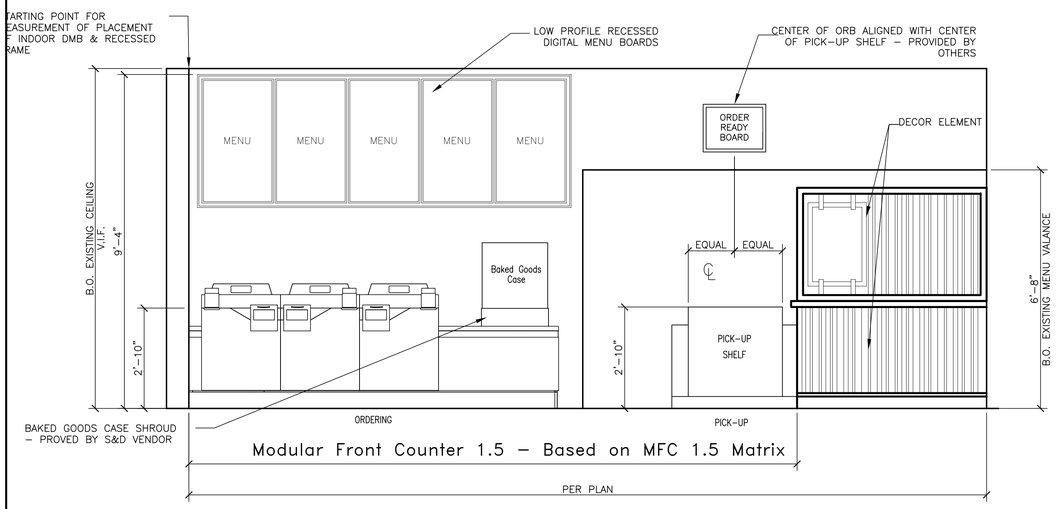


1 A6.1 **MODULAR COUNTER RACEWAY (TYP.)**

NTS

SYMBOL	CATALOG #	DESCRIPTION	QUANTITY
	HBLALU57DR & IG4700	RECEPTACLE COVERPLATE WITH ORANGE, TWIST LOCK, ISOLATED GROUND DUPLEX RECEPTACLE	1 PER ISOLATED GROUND RECEPTACLE
	HBLALU57DR & 5-15R	RECEPTACLE COVERPLATE WITH STRAIGHT BLADE DUPLEX RECEPTACLE	1
	HBLALU57LPB	COMMUNICATIONS COVERPLATE	1 PER REGISTER & 1 FOR DUAL POINT & 1 FOR ANALOG WIRELESS OPTION
	HBLALU57BL	BLANK COVERPLATE	AS NECESSARY TO FILL RACEWAY
	HBLALU7620B03M290	3' SECTION OF RACEWAY. INCLUDES COUPLERS	AS NECESSARY TO MAKE ORDER COUNTER RACEWAY 1' LESS THAN COUNTER LENGTH. INSTALL (2) 2' OR 3' RACEWAY AT PICKUP
	HBLALU7620B02M290	2' SECTION OF RACEWAY, INCLUDES COUPLERS	AS NECESSARY TO MAKE ORDER COUNTER RACEWAY 1' LESS THAN COUNTER LENGTH. INSTALL (2) 2' OR 3' RACEWAY AT PICKUP
	HBLALU7610B	BLANK END FITTING	AS NEEDED
N/A	HBLALU5010B2M2	SERVICE ENTRANCE FITTING & BUSHING FOR DATA CABLES	AS NEEDED
N/A	HBLALU5701	COUPLER (INCLUDED WITH RACEWAY SECTION)	RECEIVE 1 PAIR PER RACEWAY SECTION
	HBLALU5709	GROUND ADAPTER	AS NEEDED

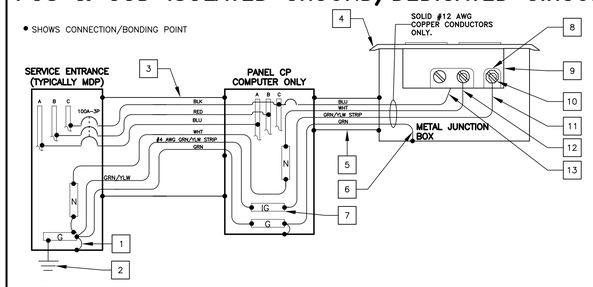
NOTES:
1. RACEWAY AND ISOLATED GROUND RECEPTACLES TO BE PROVIDED WITH MODULAR FRONT COUNTER, INSTALLED BY CONTRACTOR.
2. DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE DEVIATIONS. SHORTER COUNTERS MAY REQUIRE CONTRACTOR TO CUT RACEWAY FOR RACEWAY TO BE 1' SHORTER THAN COUNTER.



7 DET1-A **INTERIOR ELEVATION**

1/2" = 1'-0"

POS & COD ISOLATED GROUND/DEDICATED CIRCUIT



NOTES

1. ALL P.O.S. EQUIPMENT (COMPUTERS,PRINTERS,MONITORS KVS, MODEM, HUB & COD) SHALL BE POWERED FROM THE COMPUTER PANEL.

   ALL OTHER COMPUTER/DIGITAL EQUIPMENT SHALL BE POWERED FROM PHASE "A" IN THE COMPUTER PANEL.
2. ISOLATED GROUND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF NEC SECTION 250 .
3. EACH 20 AMP CIRCUIT SHALL HAVE IT'S OWN ISOLATED EQUIPMENT GROUNDING CONDUCTOR.
4. ENTIRE GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250 AND MCDONALD's BUILDING GROUNDING DETAIL.
5. EC SHALL VERIFY CORRECT POLARITY AT RECEPTACLE.
6. EC SHALL VERIFY THAT SUBPANEL CP DOES NOT CONTAIN ANY ILLEGAL NEUTRAL TO GROUND BONDS.
7. PANEL CP SHALL ONLY BE USED TO POWER SENSITIVE ELECTRONIC EQUIPMENT, AS OUTLINED IN NOTE #1. IT SHALL NOT BE USED TO POWER ANY OTHER LOADS.
8. IT IS A SAFETY HAZARD AND AN NEC VIOLATION FOR THE POS SYSTEM TO HAVE ITS OWN INDEPENDENT GROUNDING ROD. IF AN INDEPENDENT GROUND ROD IS FOUND FOR THE POS SYSTEM, IT SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM.

KEY NOTES

1. THIS IS THE ONLY POINT WHERE THE ISOLATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE BUILDING'S GROUNDING SYSTEM.
2. SEE BUILDING GROUNDING DETAIL THIS SHEET.
3. 1-1/2" METAL CONDUIT: 4-#1 CU + 1-#6 CU EQUIP GND + 1-#4 CU ISOLATED GND.
4. ALL ISOLATED GROUND/ DEDICATED CIRCUIT RECEPTACLE COVER PLATES SHALL BE ORANGE HUBBELL PJ7CO (SINGLE), PJ8CO (ONE DUPLEX) OR PJ82CO (TWO DUPLEX) MARKED "COMPUTER ONLY".
5. METAL CONDUIT SHALL CONTAIN ONLY P.O.S. CIRCUIT CONDUCTORS (DEDICATED CIRCUIT). ONLY USE RIGID NON-METALLIC CONDUIT BELOW GRADE WHEN REQUIRED BY LOCAL CODE.
6. EQUIPMENT GROUNDING BONDING CONDUCTOR (TYPICAL)
7. ISOLATED GROUND BUS, ELECTRICALLY INSULATED FROM PANEL ENCLOSURE USED TO TERMINATE ONLY ISOLATED EQUIPMENT GROUNDING CONDUCTORS.
8. ALL CONDUCTORS SHALL BE SOLID COPPER AND TERMINATED TO THEIR APPROPRIATE TERMINAL SCREWS BY WRAPPING THE CONDUCTOR COMPLETELY AROUND THE SCREW BARREL AND TIGHTENING THE SCREW PER MANUFACTURER'S TORQUE SPECIFICATIONS.
9. ISOLATED GROUND RECEPTACLE HUBBELL-IG4700,IG4710,IG5262 OR IG5261. SEE ROUGH IN SCHEDULE FOR THE APPROPRIATE RECEPTACLE TO USE.
10. ISOLATED GREEN GROUND SCREW.
11. ISOLATED EQUIPMENT GROUNDING CONDUCTOR (GRN W/YLW STRIP)
12. NEUTRAL CONDUCTOR TERMINATED ON SILVER SCREW.
13. PHASE CONDUCTOR TERMINATED ON BRASS SCREW

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI ROBERT D. KEMPKES NUMBER A-2009012350 ARCHITECT 6-19-2018

PREPARED BY: Robert Kempkes ARCHITECT 2615 ENTERPRISE AVE, STE 2A BOLT SPRINGS, AR 72401 PHONE 870.935.5555 FAX 866.935.5555 rkempkes@swbell.net

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DRAWN BY	REVIEWED BY	DATE ISSUED
S.O.	R.K.	06-19-2018
STD ISSUE DATE DEC. 2017		

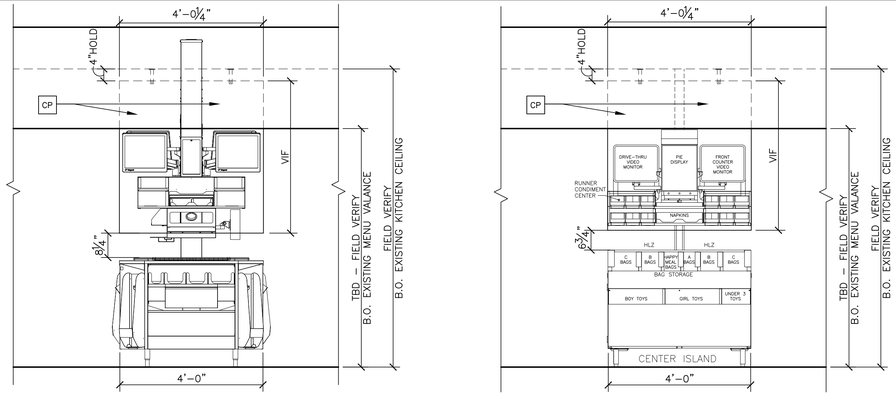
TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR - STO

DESCRIPTION

SITE ADDRESS: HIGHWAY 44 AND EXIT 189 ROLA, MO

SITE ID 024-1145

SHEET NO. 24-1145.00.0 **A6.1** DETAILS & NOTES

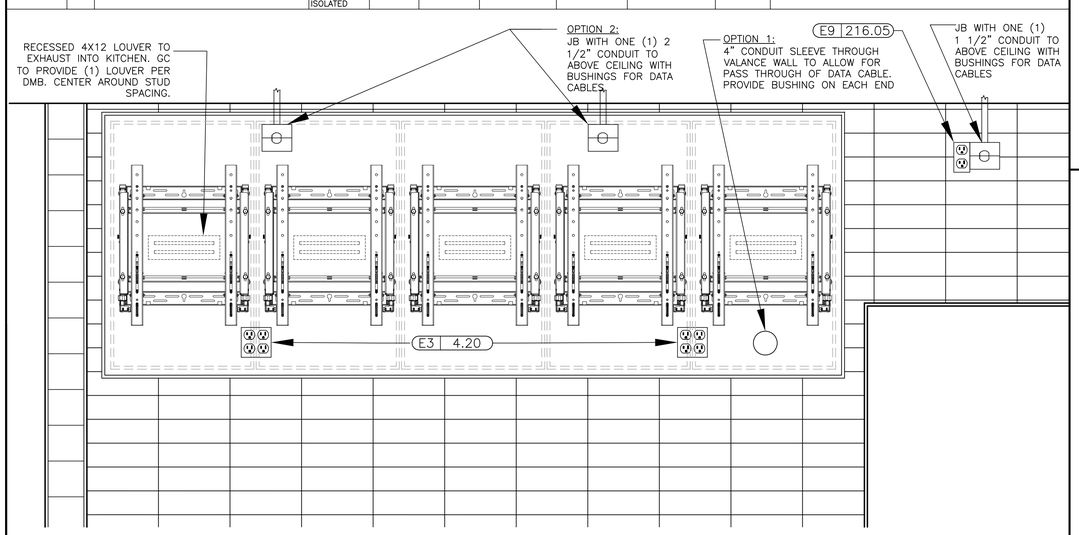


1 A6.2 **CURATED VIEW PANEL ELEVATION**
1/2" = 1'-0"

PB = Pullbox VIF = Verify in Field
JB = Junction Box
EC = Electrical Contractor

ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
004.20E3	2	MENU BOARD – DIGITAL	120/1 ISOLATED	5.3	20A	–	–	(2) IG5262	SEE PLAN	SEE LAYOUT FOR GANGED OUTLET CONFIGURATION
004.21E1	2	MENU BOARD – DIGITAL – MEDIA PLAYER	120/1 ISOLATED	1.0	20A	–	–	(2) IG5262	SEE PLAN	SEE LAYOUT FOR GANGED OUTLET CONFIGURATION
216.05E9	1	ORB MONITOR	120/1 ISOLATED	1.5EA	20A	–	–	(1) IG4700	SEE PLAN	SEE LAYOUT FOR GANGED OUTLET CONFIGURATION



NOTE: OPTION 1 IS PREFERRED IF AREA BEHIND BOARDS IS A NON-CUSTOMER AREA AND MEDIA PLAYERS WON'T BE INSTALLED ABOVE FOOD PREP. SLEEVES SHOULD NOT BE INSTALLED WITHIN CUSTOMER VIEW. IF AREA BEHIND MENU BOARDS IS DINING, RESTROOMS, OR OTHER CUSTOMER-FACING LOCATION, USE OPTION 2.

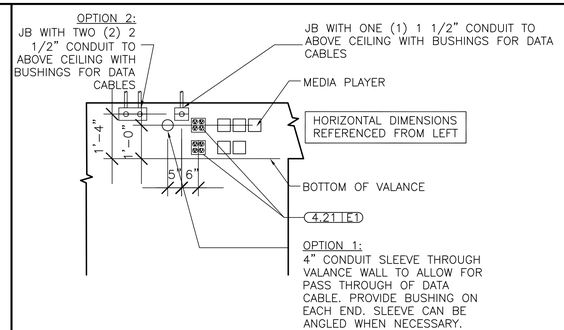
2 A6.2 **RECESSED MENU BOARDS**
1" = 1'-0"

KEY NOTES

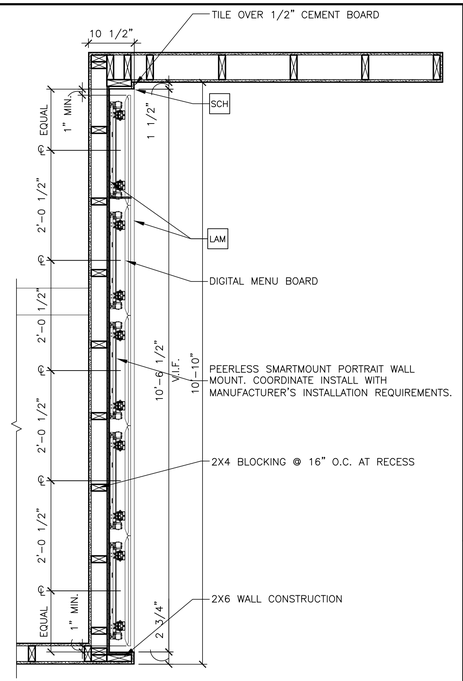
1 THIS SLIP SHEET IS PROVIDED FOR ELECTRICAL ROUGH-IN PREPARATION AND GENERAL DIGITAL MENU BOARD MOUNTING GUIDELINES. EVALUATE EXISTING VALANCE WALL STRUCTURE AND BACKING MATERIALS TO ENSURE ADEQUATE SUPPORT OF EQUIPMENT.

2 ALL HEADER AND WALL PENETRATIONS FOR CONDUITS OR OTHER ELECTRICAL ROUTING MUST BE SEALED TIGHT.

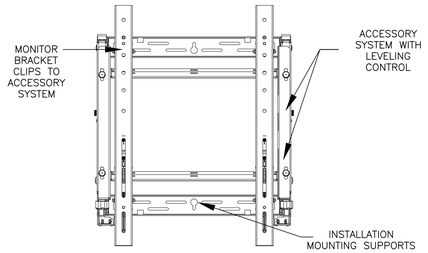
DIGITAL MENU BOARD (DMB) INSTALLATION NOTES:
- DMB SUPPORT EQUIPMENT INCLUDES:
  - NETWORK MANAGEMENT DEVICE (NMD)
  - 24 PORT ENHANCED WAYPORT SWITCH (EWS) THIS EQUIPMENT IS TYPICALLY MOUNTED IN TECHNOLOGY CLOSET OR IN MANAGER'S OFFICE.
- DMB INSTALLERS TO ROUTE CONTROL WIRES FROM NMD/EWS ABOVE CEILING TO MENU BOARD VALANCE WALL. WIRES TO EXIT WALL VIA J-BOXES.
- EACH DMB SECTION REQUIRES A DEDICATED MEDIA PLAYER.



3 A6.2 **BACK OF WALL VALANCE**
3/4 " = 1'-0"



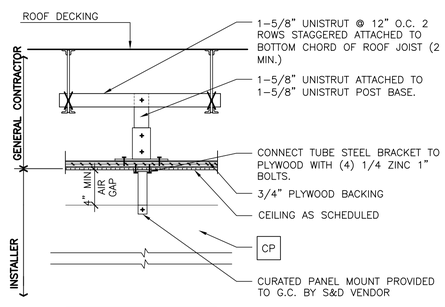
4 A6.2 **RECESSED MENU BOARDS**
3/4" = 1'-0"



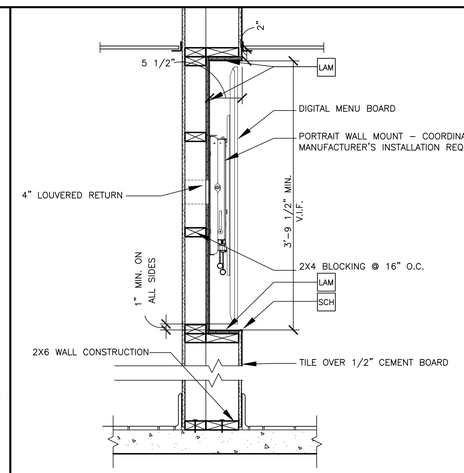
*SECURE TO EXISITING STUDS OR 3/4" PLYWOOD BACKING

REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS

5 A6.2 **DIGITAL MENU BOARD BRACKET DETAIL**
1 1/2 " = 1'-0"



6 A6.2 **CURATED PANEL INSTALL. DETAIL**
1 1/2" = 1'-0"



7 A6.2 **RECESSED MENU BOARDS**
1" = 1'-0"

KEY NOTES

** COORDINATE ALL FINISHES WITH McDONALD'S ACM PRIOR TO INSTALLATION

CT PORCELAIN WALL TILE PER DECOR PLANS

CP DARK CURATED VIEW PANEL PER DECOR PLANS
NOTE: GC TO RECEIVE CURATED PANEL MOUNTS FROM S&D VENDOR

LAM LAMINATE PER DECOR PLANS

SCH DARK SHLUTER: 1/2" QUADEC TRENDLINE
COLOR: TUSCAN PEWTER

LIGHT SHLUTER: 1/2" DECO
COLOR: SATIN ANODIZED ALUMINUM

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2006012350
ARCHITECT
6-19-2018

PREPARED BY:
Robert Kempkes
ARCHITECT
2HUNTSMAN AVE, STE 2A
JEFFERSON CITY, MO 65109
FAX: 866-266-8679

PREPARED FOR:
McDonald's USA, LLC

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S.O.	R.K.	06-19-2018
STD ISSUE DATE DEC. 2017		

TITLE
2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR – STO

DESCRIPTION

SITE ADDRESS:
HIGHWAY 44 AND EXIT 189
ROLA, MO

SITE ID
024-1145

SHEET NO.
24-1145.00.0
A6.2
DETAILS & NOTES

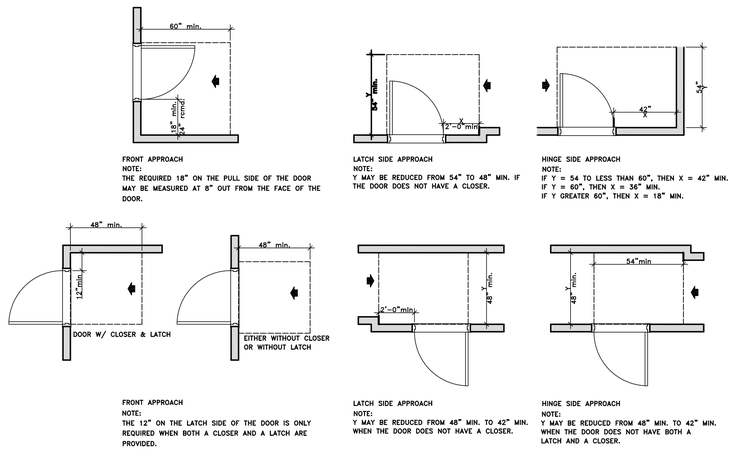
Barrier #	Priority #	Barrier		Remediation Options
1	1	Accessible Signs	1	Install assistance decals at the COD and Service windows.
			2	Install a accessible sign at entrance.
			3	
2	2	Accessible Entrance Door	1	Adjust Closer to 8.0 lbf max.
			2	
			3	
3	3	Order ADA Pick-up	1	Provide a 36" wide area for ADA order pick-up at a maximum height of 34" aff.
			2	Install Braille/Picture sign
			3	
4	4	Accessible Interior Seating	1	Ensure that a minimum of 5% of the total number of seats are accessible and are dispersed.
			2	
			3	
5	5	Employee Break Room	1	Ensure that all items used by the crew are within the accessible reach ranges of 46" aff x 24" deep or 48" aff x 10" deep.
			2	Install accessible seating.
			3	

BARRIER REMOVAL PLAN

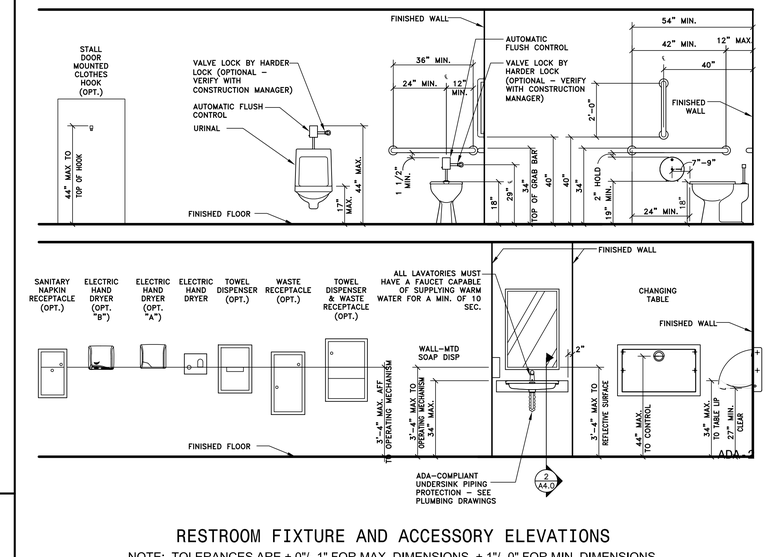
	ITEM (SEE NOTE 2)	MFR MODEL #	SUPPLIER	BACKUP SUPPORT (SEE NOTE 3)
1A	GRAB BAR 42"	BOBRICK B-6806X42	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	(1)2x6 4'-0" LONG CENTER MOUNTED
1B	GRAB BAR 36"	B-6806X36		
1C	GRAB BAR 24"	B-6806X24		
2	TOILET TISSUE DISPENSER, JUMBO, SURFACE MOUNTED	BRADLEY 5424	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
3	SANITARY NAPKIN RECEPTACLE, RECESSED (OPTIONAL)	BOBRICK B-354	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	
4A	HAND DRYER, ENERGY EFFICIENT MODEL, ADA, ALUMINUM BRUSHED	WORLD DRYER L-971 SlimDri	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
4A OPTION	HAND DRYER, ENERGY EFFICIENT MODEL ADA, SPRAYED NICKEL	DYSON AIRBLADE V	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	
4B OPTION	TOWEL DISPENSER & WASTE RECEPTACLE, COMBINATION, RECESSED (OPTIONAL)	BOBRICK B-3974	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	
5	MIRROR, CHANNEL FRAME	BOBRICK B-165 2436	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	
6A	SOAP DISPENSER, COUNTER MOUNTED, 6" SPOUT (OPTIONAL)	BOBRICK B-82216	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	
6B	SOAP DISPENSER, WALL-MOUNTED	BOBRICK B-2112	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	
7	BABY CHANGING TABLE, HORIZONTAL,RECESSED, ADA COMPLIANT	KOALA KARE KB100-MDTA	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
7 OPTION "A"	BABY CHANGING TABLE, HORIZONTAL,RECESSED, ADA COMPLIANT, ALL STAINLESS	KOALA KARE KB110-MDRA	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
8	DIAPER CONTAINER (OPTIONAL)	–	BY OWNER	
9	CLOTHES HOOK	BRADLEY 917	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM	

NOTES:
1) SEE 4/A4.0 FOR ACCESSORY MOUNTING HEIGHTS
2) SELECT ONE ITEM FROM ITEM GROUPS 4 & 6, VERIFY WITH AREA CONSTRUCTION MANAGER.
3) CUT BACK-UP SUPPORTS BETWEEN STUDS SO FACE OF SUPPORT IS FLUSH W/WALL STUD

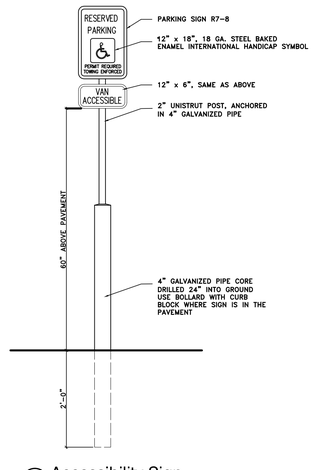
FOR INFORMATION ONLY
IF NEW FIXTURES ARE TO BE INSTALLED VERIFY
SELECTION W/ ACM AND O/O



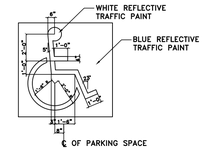
FOR INFORMATION ONLY
SEE FLOOR PLAN FOR SPECIFIC DETAILS



RESTROOM FIXTURE AND ACCESSORY ELEVATIONS
NOTE: TOLERANCES ARE + 0"/- 1" FOR MAX. DIMENSIONS, + 1"/- 0" FOR MIN. DIMENSIONS, AND + 1"/- 1" FOR OTHER DIMENSIONS.



2 Accessibility Sign
SCALE: N.T.S.



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

FOR INFORMATION ONLY
SEE CIVIL DRAWINGS FOR SPECIFIC DETAILS

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI
ROBERT D. KEMPKES
NUMBER A-2009012350
REGISTERED ARCHITECT
6-19-2018

PREPARED BY:
Robert Kempkes
ARCHITECT
26 CENTRAL AVE, STE 2A
HOT SPRINGS, AR 71901
PHONE 501.538.0679
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PREPARED FOR:
McDonald's USA, LLC

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OS	R.K.	06-19-2018
STD ISSUE DATE DEC. 2017		

TITLE
2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR – STO
DESCRIPTION

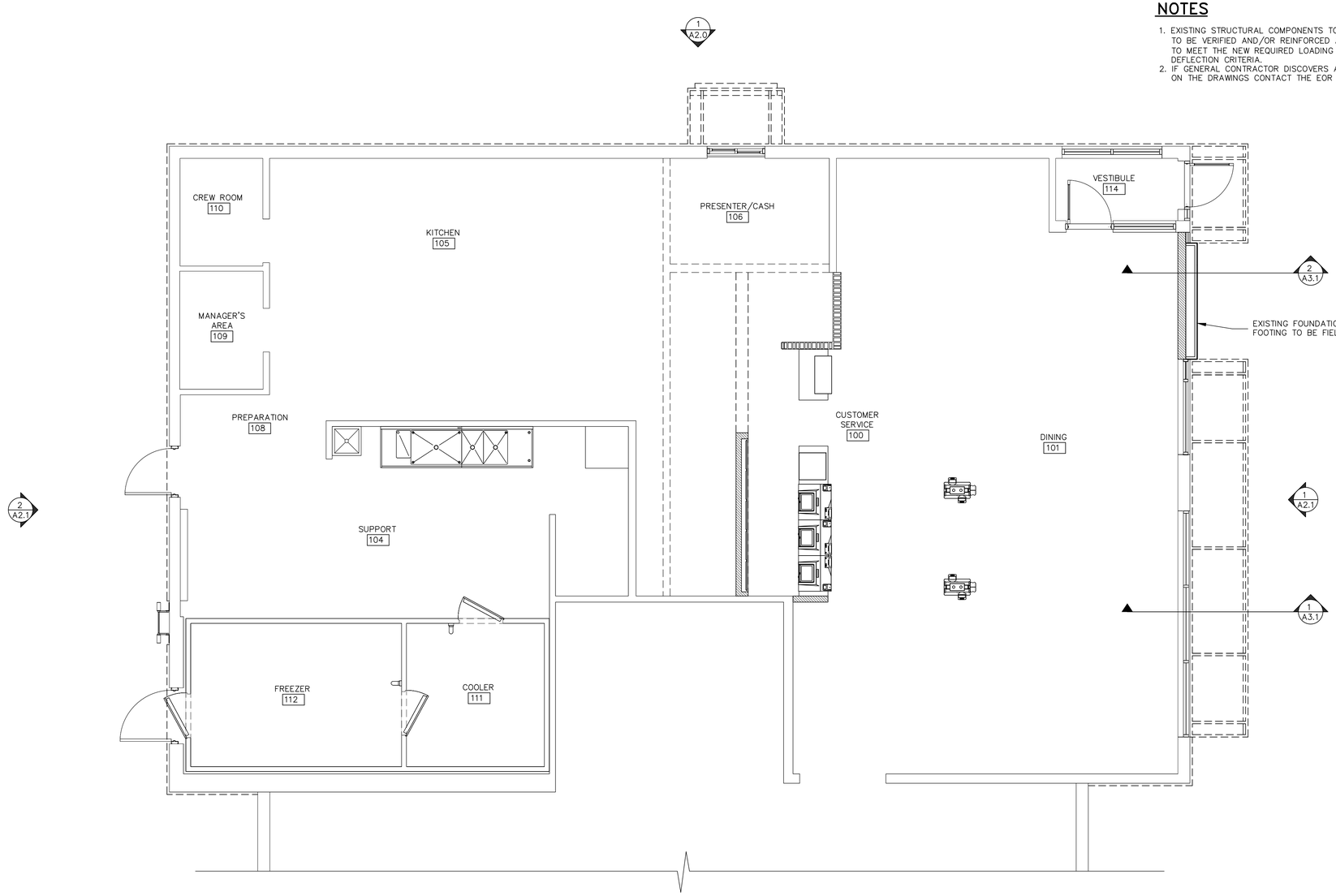
SITE ADDRESS
HIGHWAY 44 AND EXIT 189
ROLA, MO

SITE ID
024-1145

SHEET NO.
24-1145.00.0
BR1.0
Barrier Removal Plan

NOTES

1. EXISTING STRUCTURAL COMPONENTS TO REMAIN ARE TO BE VERIFIED AND/OR REINFORCED AS REQUIRED TO MEET THE NEW REQUIRED LOADING AND/OR DEFLECTION CRITERIA.
2. IF GENERAL CONTRACTOR DISCOVERS ANYTHING NOT ON THE DRAWINGS CONTACT THE EOR



1 S1.0 **FOUNDATION PLAN**
1/4" = 1'-0"

DWG: F:\2018\1001-1500\018-1492-A\40-Design\AutoCAD\Task 100002 Structural_ACAD\MasterXrefs\S_TBLK_81492 -- S1-0.dwg USER: ahofrichter
DATE: Jul 17, 2018 1:52pm XREFS:

REV	DATE	DESCRIPTION	BY
0	7.17.18	ISSUED FOR PERMIT	MDS

MICHAEL D. SCHMIDT — 62272 — REGISTERED PROFESSIONAL ENGINEER — STATE OF MISSOURI

OLSSON ASSOCIATES
302 S. 4th Street, Suite 110 TEL 785.539.6900
Manhattan, Kansas 66502 FAX 785.539.6901
www.olssonassociates.com

PREPARED FOR: McDonald's USA, LLC

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STD ISSUE DATE	
REVIEWED BY	MDS
DATE ISSUED	07/17/18

TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR - STO

DESCRIPTION

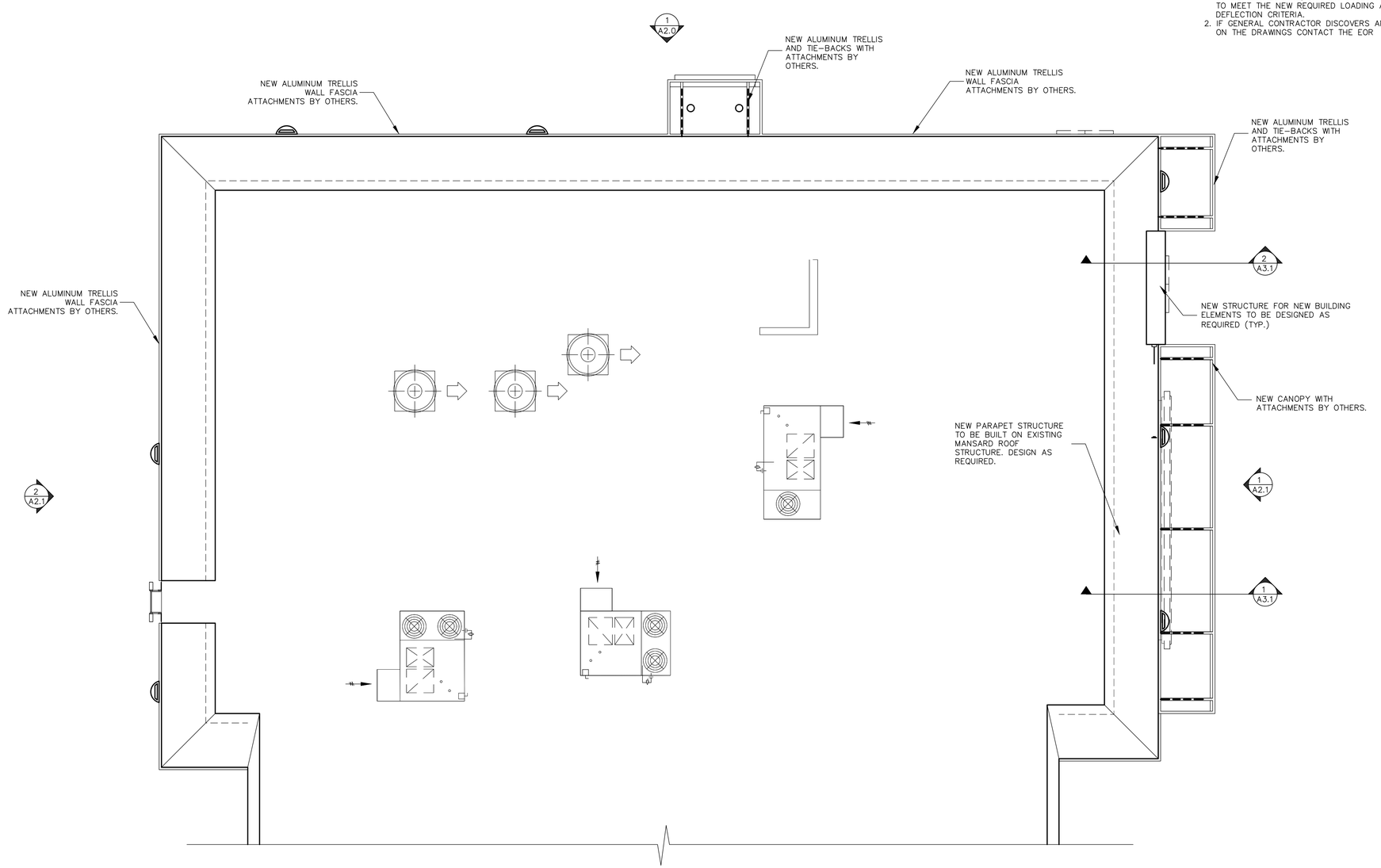
SITE ID: 024-1145
SITE ADDRESS: HIGHWAY 44 AND EXIT 189
ROLLA, MO

24-1145.00.0

SHEET NO. S1.0
FOUNDATION PLAN

NOTES

1. EXISTING STRUCTURAL COMPONENTS TO REMAIN ARE TO BE VERIFIED AND/OR REINFORCED AS REQUIRED TO MEET THE NEW REQUIRED LOADING AND/OR DEFLECTION CRITERIA.
2. IF GENERAL CONTRACTOR DISCOVERS ANYTHING NOT ON THE DRAWINGS CONTACT THE EOR



1 S1.1 **FRAMING PLAN**
1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY
0	7.17.18	ISSUED FOR PERMIT	MDS

MICHAEL D. SCHWAB — 62272 — REGISTERED PROFESSIONAL ENGINEER — STATE OF MISSOURI

OLSSON ASSOCIATES
302 S. 4th Street, Suite 110
Manhattan, Kansas 66502
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FAX 785.539.6901
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STD ISSUE DATE	
REVIEWED BY	MDS
DATE ISSUED	07/17/18

TITLE
2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR - STO

DESCRIPTION

SITE ID 024-1145 | SITE ADDRESS HIGHWAY 44 AND EXIT 189 ROLLA, MO

SHEET NO. S1.1 — FRAMING PLAN

24-1145.00.0

DWG: F:\2018\1001-1500\018-1492-A\40-Design\AutoCAD\Task 100002 Structural_ACAD\MasterXrefs\S_TBLK_81492 -- S1-1.dwg
DATE: Jul 17, 2018 1:52pm XREFS:
USER: ahofrichter

STRUCTURAL GENERAL NOTES:

DESIGN AND LOADING

THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:

1. BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE
2. FLOOR LIVE LOAD: 100 PSF
3. ROOF LIVE LOAD: 20 PSF
   ROOF DEAD LOAD: 20 PSF
4. GROUND SNOW LOAD: 20 PSF
   - FLAT ROOF SNOW LOAD: 20 PSF
   - SNOW EXPOSURE FACTOR, Ce: 0.9
   - IMPORTANCE FACTOR, I: 1.0
   - THERMAL COEFFICIENT, Ct: 1.0
5. BASIC WIND SPEED: 115 MPH (3–SECOND GUST)
   - IMPORTANCE FACTOR: 1.00
   - BUILDING OCCUPANCY CATEGORY: II
   - WIND EXPOSURE: C
   - PRESSURES PER ASCE7–10
6. SEISMIC OCCUPANCY CATEGORY: II
   - IMPORTANCE FACTOR: 1.00
   - SITE CLASS: D
   - Ss = 0.289g, S1= 0.136g
   - Sds = 0.303, Sd1 = 0.204g
   - DESIGN CATEGORY: D
   - LIGHT–FRAME WALLS WITH SHEAR PANELS OF OTHER MATERIALS (R = 2.0)
   - Cs: 0.152
   - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
7. FLOOD LOAD: N/A
8. SPECIAL LOADS: N/A

FOUNDATION NOTES

THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA:

1. MAXIMUM ALLOWABLE SOIL BEARING CAPACITY = 2000 PSF. (ASSUMED)
2. SOIL BORINGS MUST BE TAKEN PRIOR TO CONSTRUCTION TO VERIFY THE ACTUAL ALLOWABLE SOIL BEARING CAPACITY.
3. FOUNDATIONS INDICATED MUST BE MODIFIED IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN THE VALUE NOTED IN ITEM #1.

ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST.

THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS.

ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE AND REINFORCING

ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST EDITIONS.

ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI (3500 PSI FOR SLABS).

ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318 OR ACI 301.

TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI 301.

REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A–615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A–185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 315 AND 315R.

PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.

THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SUB–CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", 13TH EDITION.

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

ANCHOR RODS	F1554, GRADE 36
HIGH STRENGTH STRUCTURAL BOLTS	A325–N U.N.O.
STRUCTURAL SHAPES (W)	A992
STRUCTURAL SHAPES (M, S, C, MC, PLATES)	A36
STRUCTURAL SHAPES (HP)	A572
STRUCTURAL TUBING (HSS)	A500 GRADE B
STRUCTURAL ANGLES	A36

ALL WELDING ELECTRODES SHALL BE E70–XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY CERTIFIED WELDERS.

LAMINATED VENEER LUMBER (LVL)

ALL BEAMS SHALL BE MANUFACTURED WITH LAMINATED VENEER LUMBER AND WATERPROOF ADHESIVES.

SIZE, MANUFACTURER & SERIES OF ALL LVL MEMBERS SHALL BE AS SHOWN ON DRAWINGS.
Fb = 2600 PSI, Fv = 285 PSI, & E = 1,900,000 PSI MINIMUM.

ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.

PROVIDE 3" MINIMUM BEARING OR AS SPECIFIED ON PLANS. REFER TO PLANS FOR FASTENING OF MULTIPLE PIECE BEAMS.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704 OF IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2015 IBC SECTIONS/LOCATIONS:

1. SOILS – SECTION 1705.6 PER TABLE 1705.6.
2. CONCRETE – SECTION 1705.3 PER TABLE 1705.3.
3. STEEL – SECTION 1705.2 PER TABLE 1705.2.3.
4. MASONRY – SECTION 1705.4.
5. WOOD – SECTION 1705.5.

SAWN LUMBER

ALL GRADES OF LUMBER SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). LUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:

- SOUTHERN PINE NO. 1.
- DOUGLAS FIR–LARCH NO. 1.
- HEM–FIR NORTH NO. 1

BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE IF NO OTHER CRITERIA IS GIVEN.

CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON. WRITTEN APPROVAL BY ENGINEER REQUIRED FOR SUBSTITUTIONS.

ROOF & WALL SHEATHING

ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATIONS, LATEST EDITION. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.

WALL SHEATHING SHALL BE 15/32" (1/2" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 32/16. ALL WALL SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATED SUPPORTS, U.N.O.

ROOF SHEATHING SHALL BE 23/32" (3/4" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 48/24, UNO. ALL ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/10d COMMON NAILS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS. U.N.O.

MASONRY

MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530/ASCE 5/TMS 402.

MASONRY MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS:

- HOLLOW LOAD BEARING CONCRETE BLOCK: ASTM C–90, GRADE N1
  MINIMUM COMPRESSIVE STRENGTH = 1900 PSI AT 28 DAYS.
- MORTAR: ASTM C–270, TYPE S
  MINIMUM COMPRESSIVE STRENGTH = 1800 PSI AT 28 DAYS.
- MORTAR: ASTM C–270, TYPE M
  MINIMUM COMPRESSIVE STRENGTH = 2500 PSI AT 28 DAYS
  (USED FOR BELOW GRADE WORK)
- GROUT: ASTM C–476,
  MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS
- MASONRY REINFORCEMENT: ASTM A–82, GALVANIZED
- MASONRY PRISM STRENGTH: F'm = 1500 PSI

PRIOR TO DELIVERY OF MASONRY UNITS TO THE JOB SITE, FURNISH TO THE OWNER AFFIDAVITS FROM AN APPROVED TESTING LABORATORY CERTIFYING THAT ALL UNITS CONFORM TO THEIR RESPECTIVE ASTM REQUIREMENTS.
GROUT ALL CAVITIES CONTAINING REINFORCEMENT IN LIFTS NOT TO EXCEED 5'–0".
LABORATORY PREPARED MIXES SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH ASTM C–270. FIELD MORTAR SHALL BE TESTED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH ASTM C–780 TWO SETS OF THREE MORTAR CUBES SHALL BE TAKEN DIRECTLY FROM THE MIXER FOR EACH DAY OF MASONRY WORK. TEST THE CUBES AT 28 DAYS. ACCEPTANCE OF THE MORTAR SHALL BE AT THE DISCRETION OF THE ENGINEER.
PROVIDE STANDARD DUR–O–WALL OR EQUIVALENT REINFORCEMENT AT EVERY SECOND BLOCK COURSE IN ALL WALLS UNLESS MORE RESTRICTIVE REQUIREMENTS ARE NOTED.
CALCIUM CHLORIDE AND/ OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE INCLUDED IN MORTAR OR GROUT MIX, EXCEPT WHEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO ANTI FREEZE COMPOUNDS SHALL BE USED TO LOWER THE MORTAR'S FREEZING POINT.
NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT, UNLESS THE RECOMMENDATIONS SPECIFIED BY THE INTERNATIONAL MASONRY INDUSTRY ALL WEATHER COUNCIL IN THEIR PUBLICATION "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY" ARE STRICTLY FOLLOWED.
THE MASONRY CONTRACTOR SHALL PROVIDE BRACING TO WITHSTAND HORIZONTAL PRESSURES AS REQUIRED BY THE BUILDING CODE AND LOCAL ORDINANCE.

SHOP DRAWINGS

SHOP DRAWING SUBMITTALS SHALL CONSIST OF A MINIMUM OF 2 COPIES OF EACH DRAWING.

SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.

DRAWINGS CREATED BY THE ENGINEER OF RECORD CANNOT BE REPRODUCED AND/OR USED AS A SHOP DRAWING SUBMITTAL.

SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:

1. CONCRETE MIX DESIGN
2. FOUNDATION REINFORCING BARS
3. STRUCTURAL STEEL
4. STRUCTURAL MASONRY
5. OPEN WEB JOISTS AND CALCULATIONS
6. ROOF SHEATHING
7. TRELLIS SYSTEM & CALCULATIONS
8. LAMINATED VENEER LUMBER (LVL)
9. SAWN LUMBER AND CONNECTORS

MISCELLANEOUS

ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.

DO NOT SCALE THE DRAWINGS.

REV	DATE	DESCRIPTION	BY
0	7.17.18	ISSUED FOR PERMIT	MDS

STATE OF MISSOURI — MICHAEL D. SPILINEK — NUMBER E-22772 — REGISTERED PROFESSIONAL ENGINEER — 7/17/18

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PREPARED FOR: McDonald's USA, LLC

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DRAWN BY: APH
STD ISSUE DATE:
REVIEWED BY: MDS
DATE ISSUED: 07/17/18

TITLE: 2017 MRP 2.0 CRITERIA SET CORE 16 EXTERIOR - STO
DESCRIPTION:
SITE ID: 024–1145
SITE ADDRESS: HIGHWAY 44 AND EXIT 189 ROLLA, MO

SHEET NO. 24–1145.00.0
S2.0
GENERAL NOTES

DWG: F:\2018\1001–1500\018–1492–A\40–Design\AutoCAD\Task 100002 Structural_ACAD\MasterXrefs\S_TBLK_81492 -- S2–0.dwg USER: ahofrichter
DATE: Jul 17, 2018 1:52pm XREFS:

ELECTRICAL SPECIFICATIONS AND GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM/INSTALLATION.

2. MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION.

3. ALL MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L.,ETL, CSA, OR ANOTHER RECOGNIZED TESTING LABORATORY.

4. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK.

5. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES, UTILITY COMPANIES, AND LOCAL CODE OFFICIALS, SHOP DRAWINGS AND/OR INSTALLATION DETAILS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.

6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, ENGINEER, AND PROJECT MANAGER IN WRITING OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES, OR REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.

7. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE FIRE PREVENTION BUREAU ALL DOCUMENTS, INCLUDING DRAWINGS AND SUBMITTALS, REQUIRED TO OBTAIN APPROVAL OF THE EMERGENCY LIGHTING, LIFE SAFETY, AND EXIT SIGN SYSTEM(S) FOR TYPES AND LOCATIONS. A COPY OF THE APPROVED DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AND ENGINEER PRIOR TO THE START OF CONSTRUCTION.

8. ALL NEW ELECTRICAL WORK OR MODIFICATIONS TO EXISTING ELECTRICAL DISTRIBUTION PANELS, PANELBOARDS, METERS, ETC. SHALL BE INSTALLED AS INDICATED ON THE ELECTRICAL CONSTRUCTION DOCUMENTS. E.C. SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT TO BE INSTALLED INDICATING FLOOR PLAN LAYOUT, ELEVATIONS, AND AL DIMENSIONS FOR APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION. CODE REQUIRED CLEARANCES IN FRONT OF ALL ELECTRICAL EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.

9. THE CONTRACTOR SHALL INCLUDE IN BID AN ALLOWANCE FOR THE FOLLOWING ADDITIONAL LIFE SAFETY DEVICES, INCLUDING INSTALLATION AND ALL CONDUIT AND WIRE, FOR ADDITIONAL DEVICES AS MAY BE REQUIRED BY THE REVIEW OF THE AUTHORITY HAVING JURISDICTION.
   (2) EXIT SIGN FIXTURES
   (2) EMERGENCY LIGHTING FIXTURES

   CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR EACH FOR QUANTITY ADJUSTMENT.

10. THE CONTRACTOR SHALL INCLUDE IN BID ELECTRICAL UNIT PRICES (EUP) TO PROVIDE ADDITIONAL LIFE SAFETY DEVICES WITHIN FINISHED CEILING SYSTEMS, INCLUDING ALL CONDUIT AND WIRE, FOR EACH TYPE OF DEVICE AS SCHEDULED IN NOTE NUMBER 9. THE UNIT PRICE SHALL INCLUDE ALL GENERAL CONTRACTOR ASSOCIATED COSTS TO INSTALL DEVICES WITHIN INSTALLED CEILING SYSTEMS.

11. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, MAKE A SCHEDULED ARRANGEMENT WITH THE PROJECT MANAGER TO VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.

12. THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND WIRING FOR THE PERFORMANCE OF ALL TRADES, FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION. ALL COSTS FOR ESTABLISHING AND REMOVING TEMPORARY POWER SHALL BE INCLUDED IN BID.

13. THE EXISTING POWER, SIGNAL, AND COMMUNICATIONS SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNER'S EXISTING FUNCTIONS. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE PROJECT MANAGER AND SHALL BE ONLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUTDOWN.

14. ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, TOOLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.

15. ALL CUTTING, DRILLING, AND PATCHING OF MASONRY, DRYWALL, CONCRETE, STEEL, OR IRON WORK BELONGING TO THE BUILDING SHALL BE DONE BY THIS CONTRACTOR IN ORDER THAT WORK MAY BE PROPERLY INSTALLED. UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT. EXCEPT AT THE DIRECTION OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.

16. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS, AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS (FOR EXAMPLE ALL LIGHTING FIXTURES). PARTIAL SUBMITTALS WILL NOT BE REVIEWED.

17. SUBMIT FOUR (4) COPIES OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW:
   A. LIGHTING FIXTURES AND LAMPS
   B. WIRING DEVICES
   C. LOW VOLTAGE RELAYS AND SWITCHES
   D. DIMMERS AND CONTROLS

18. CONTRACTOR SHALL PROVIDE "AS-BUILT' DOCUMENTATION AND HARD COPY REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE PROJECT AND SUBMIT TO THE ARCHITECT AND THE ENGINEER. AS-BUILT DRAWINGS SHALL INDICATE EXACT CIRCUIT NUMBERS, LOCATIONS OF ALL DEVICES, CEILING FIXTURES, AND RACEWAY FOR LIGHTING, TELECOMMUNICATIONS AND POWER DISTRIBUTION SYSTEMS AS INSTALLED.

19. ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW AND OF COMMERCIAL GRADE UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED ON DRAWINGS.

20. EXCEPT AS NOTED OTHERWISE, ALL WORK REQUIRED FOR THE ELECTRICAL INSTALLATION AS SHOWN ON DRAWINGS SHALL INCLUDE ALL LABOR, INSTALLATION METHODS, EQUIPMENT, AND MATERIALS AND SHALL BE IN STRICT COMPLIANCE WITH ALL BUILDING STANDARDS.

21. PROVIDE A COMPLETE METAL RACEWAY SYSTEM, FITTINGS AND ENCLOSURES FOR ALL ELECTRICAL WIRING SYSTEMS TO BE INSTALLED FOR THE PROJECT. SYSTEMS SHALL INCLUDE, BUT NOT BE LIMITED TO POWER, COMMUNICATIONS, SECURITY, PAGING, TEMPERATURE CONTROL AND CONTROLS.

22. NOT USED.

23. MINIMUM CONDUIT SIZE SHALL BE 1/2 INCH FOR GENERAL LIGHTING AND POWER CIRCUITRY UNLESS OTHERWISE INDICATED AND/OR REQUIRED BY CODE.

24. FLEXIBLE CONDUIT CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE STEEL CONDUIT, 1/2 INCH MINIMUM, INCLUDING AN INSULATED COPPER GREEN EQUIPMENT GROUNDING CONDUCTOR OR SHALL BE MADE WITH METAL CLAD TYPE CABLE.

25. NOT USED.

26. WIRE NUMBER 8 AND SMALLER FOR USE IN INTERIOR DRY LOCATIONS SHALL BE TYPE THWN THERMOPLASTIC 600 VOLT INSULATED COPPER CONDUCTORS. FEEDERS AND POWER WIRING NUMBER 6 AND LARGER SHALL BE TYPE THW 600 VOLT INSULATED COPPER. WIRE WHICH IS INSTALLED IN RACEWAY IN MOIST OR DAMP LOCATIONS SHALL BE THW, 600 VOLT INSULATED COPPER CONDUCTORS. NO WIRE SMALLER THAN NUMBER 12 AWG SHALL BE USED FOR LIGHTING OR POWER.

27. BRANCH CIRCUIT HOMERUN WIRING:
   A. GENERAL PURPOSE BRANCH CIRCUIT HOMERUNS CONSISTING OF TWO NETWORKS SHALL HAVE PHASE, NEUTRAL AND GROUND CONDUCTORS INCREASED TO NUMBER 10 AWG, THWN AS A MINIMUM. WHERE HOERUN (ONE OR MORE NETWORKS) EXCEEDS 100 LINEAR FEET, CONDUCTOR SIZE SHALL BE INCREASED ONE TRADE SIZE.
   B. ALL BRANCH CIRCUITS, FEEDERS, AND HOMERUNS SHALL BE PROVIDED WITH AN INSULATED COPPER GREEN GROUNDING CONDUCTOR ROUTED IN THE SAME CONDUIT. GROUNDING CONDUCTOR SHALL BE SIZED PER THE REQUIREMENTS OF NEC SECTION 250.
   C. HOMERUN LENGTH SHALL BEGIN AT HE CENTRAL POINT OF ALL DISTRIBUTED CIRCUITS TO THE PANELBOARD CIRCUIT BREAKER.

28. ALL NEW CIRCUIT BREAKERS FOR EXISTING PANELBOARDS AND DISTRIBUTION PANELBOARDS SHALL MATCH EXISTING BUILDING PANELBOARD MANUFACTURER AND CIRCUIT BREAKER TYPE ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. AIC RATING OF NEW CIRCUIT BREAKER SHALL MATCH AIC RATING OF PANELBOARD IN WHICH IT IS INSTALLED. WHERE SERIES RATED TYPE CIRCUIT BREAKERS ARE USED, NEW CIRCUIT BREAKERS SHALL BE INSTALLED SO AS TO MAINTAIN THE UL SERIES RATING OF THE ENTIRE SYSTEM. THE CONTRACTOR SHALL PROVIDE A NEW TYPEWRITTEN PANEL DIRECTORY FOR EACH PANEL CHANGED AT THE COMPLETION OF THE PROJECT. EACH CIRCUIT BREAKER SHALL BE LABELED TO IDENTIFY LOAD TYPE AND LOCATION

29. THE CONTRACTOR SHALL VERIFY THE CEILING CONSTRUCTION TYPE WITH ARCHITECTURAL DETAILS BEFORE ORDERING LIGHTING FIXTURES IN ORDER TO CONFIRM PROPER MOUNTING.

30. EACH SWITCH, LIGHT, RECEPTACLE, OR OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR SHERARDIZED PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NUMBER 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS SHALL BE LEFT SEALED. THERE SHALL BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.

31. NOT USED

32. IN SUSPENDED CEILINGS, SUPPORT CONDUITS AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SYSTEM, DECK OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SUPPORT WIRES OR SPLINE UNLESS THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE AND APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND THE ENGINEER.

33. E.C. SHALL PROVIDE "3M" FIRESEAL SYSTEMS FOR ALL CORES AND RACEWAY PENETRATIONS IN FIRE RATED WALLS AND PARTITIONS. FIRE RATE WALL AND CEILING PENETRATIONS, ETC. USING "CP-25" CAULK, "303" PUTTY AND/OR "FLAMESEAL" PUTTY AS PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN EXISTING AND NEW FIRE RATINGS. VERIFY FIRE RATING CONDITIONS AND LOCATIONS PRIOR TO FINAL BIDS. ALL OPEN SLEEVE PENETRATIONS SHALL BE FIRESEALED INSIDE AND OUTSIDE BY E.C. AFTER ALL CABLING IS COMPLETELY INSTALLED. SEALING METHODS SHALL BE PROVIDED BY E.C. AND SHALL BE SUBJECT TO THE APPROVAL OF THE CABLING CONTRACTOR.

34. NOT USED

35. NOT USED

36. NUMBERED CIRCUITS SHOWN ON PLAN ARE FOR THE CONVEYANCE OF DESIGN INTENT ONLY. ACTUAL FIELD CONDITIONS WILL AFFECT CIRCUITRY. INDICATE THE ACTUAL CIRCUIT NUMBERS INSTALLED ON THE "AS-BUILT" DRAWINGS.

37. BUILDING STANDARDS
   A. ALL NEW CONDUIT RACEWAYS AND BOXES FOR ALL SYSTEMS SHALL BE INSTALLED TIGHT-UP TO THE BOTTOM OF THE STRUCTURAL BEAMS WHERE REQUIRED AND PROPERLY SUPPORTED FROM STRUCTURAL MEMBERS.

   B. ALL NEW CONDUIT RUNS SHALL BE INSTALLED ABOVE AND OVER THE TOP OF ALL NEW AND/OR EXISTING DUCTWORK, PIPING, CONDUITS, PULLBOXES, ETC. E.C. SHALL PROVIDE ALL NECESSARY ACCESSIBLE PULLBOXES. CONDUIT BENDS SHALL NOT EXCEED CODE REQUIREMENTS WITHIN A SINGLE RUN. E.C. SHALL PROVIDE ALL PULLBOXES AS REQUIRED.

   C. NEW CONDUIT RUNS OR PULLBOXES SHALL NOT BE INSTALLED LESS THAN 2 INCHES ABOVE RECESSED LIGHTING FIXTURES UNLESS APPROVED BY THE ENGINEER.

   D. NEW CONDUIT RUNS OR PULLBOXES SHALL NOT BLOCK OR PREVENT FULL AND COMPLETE ACCESS AND OPERATION OF NEW OR EXISTING HVAC EQUIPMENT, ACCESS DOORS, PIPING VALVES, JUNCTION BOXES, DUCT HEATERS, MAIN SUPPLY AND RETURN AIR DUCTS, PULLBOXES, CLEANOUTS, ETC.

   E. NEW CONDUIT AND PULLBOXES TO BE INSTALLED BELOW NEW OR EXISTING DEUCTWORK SHALL BE MOUNTED TIGHT UP TO BOTTOM OF DUCT WITH 90 DEGREE BENDS UP SIDEWALL OF DUCT TO MEET REQUIREMENTS OF LETTER C ABOVE. SUPPORTS SHALL NOT PRENETRATE DUCTWORK, AND SHALL BE INDEPENDENT OF ALL DUCTWORK SUPPORTS. DIRECT CONTACT OF CONDUIT RACEWAY SYSTEMS WITH DUCTWORK OR PIPING SHALL BE PROVIDED WITH VIBRATION SEPARATION METHOD APPROVED BY THE ENGINEER.

   F. NEW CONDUIT AND BOXES TO BE INSTALLED WITHIN ALL EXISTING FINISHED BUILDING DRYWALL, FURRED BUILDING WALLS, PARTITIONS, AND COLUMNS SHALL BE INSTALLED WITH EMT AND FLEXIBLE RACEWAYS NOT MORE THAN 6'-0" LONG. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS FOR DRYWALL ACCESS, CUTTING, PATCHING, PAINTING, ETC. IN BIDS FOR SUCH CONDITIONS. FIELD VERIFY ALL LOCATIONS ON SITE PRIOR TO FINAL BIDS. EXCEPTIONS DURING BIDS SHALL BE SUBMITTED IN WRITING.

   G. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE HELD RESPONSIBLE TO HAVE EXAMINED THE CONSTRUCTION SITE WITH RESPECT TO CONSTRUCTION DRAWINGS, ACTUAL FIELD CONDITIONS, DOOR FRAME HEIGHTS, PIPING OBSTRUCTIONS, DUCTWORK HEIGHTS AND LEVELS, FLOOR LEVELS, CEILING HEIGHTS, ETC. PRIOR TO FINAL BIDS.

   H.ALL NEW BUILDING STANDARD EQUIPMENT, DEVICES, AND MATERIALS SHALL BE EQUAL TO OR GREATER IN QUALITY TO EXISTING APPROVED BUILDING STANDARD MATERIALS PRESENTLY INSTALLED IN BUILDING. EQUIPMENT, DEVICES AND MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, PROJECT MANAGER, AND THE ENGINEER.

   I. ALL EMERGENCY AND EXIT SIGN JUNCTION BOXES SHALL BE PAINTED RED. PANEL TAG AND CIRCUIT NUMBER FOR ALL WIRING WITHIN JUNCTION BOX SHALL BE INDICATED ON COVER.

   J. ALL JUNCTION BOXES SERVING LIGHTING AND POWER SHALL HAVE CIRCUIT NUMBERS AND PANEL TAGS FOR ALL WIRING WITHIN JUNCTION BOX SHALL BE INDICATED ON COVERS.

38. A NEW PANELBOARD COPPER GROUND BUS SHALL BE INSTALLED FOR EQUIPMENT GROUNDING REQUIREMENTS FOR ALL PANELBOARDS LACKING A GROUND BUS.

39. PERFORM ALL WORK OF A DEMOLITION NATURE THAT MAY BE REQUIRED OR NECESSARY FOR THE FULL AND COMPLETE EXECUTION OF THE WORK, WHETHER EXPLICITLY SHOWN AND/OR SPECIFIED OR NOT. EXACT EXTENT OF DEMOLITION WILL NOT BE FULLY INDICATED BY DRAWINGS. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH ARCHITECTURAL AND DEMOLITION DRAWINGS TO EXISTING CONDITIONS. ELECTRICAL EQUIPMENT WHICH WILL NOT BE REUSED SHALL BE TURNED OVER TO THE OWNER OR REMOVED FROM THE PREMISES AS DETERMINED BY THE PROJECT MANAGER.

40. ANY EXISTING ELECTRICAL MATERIAL AND EQUIPMENT WHICH INTERFERES WITH THE NEW ADDITION OR THE REMOVAL OF EXISTING WALLS SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR. VERIFY REMOVAL AND NEW LOCATION OF EQUIPMENT WITH THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER PRIOR TO WORK.

41. VERIFY CLEARANCES FOR ALL NEW OR EXISTING RELOCATED ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH ALL TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.

42. WHERE EXISTING CONDUIT IS SHOWN ON THE DRAWINGS, IT IS SHOWN DIAGRAMMATICALLY. THE EXACT ROUTING OF THE EXISTING CONDUIT SHALL BE DETERMINED ON THE JOB SITE BY THE CONTRACTOR.

43. NOT USED

44. ALL HANGER AND/OR ROD SUPPORT SYSTEMS SHALL BE SUPPORTED TO THE BOTTOM RIB OF THE METAL DECK, WHERE APPLICABLE.

45. PROVIDE A WRITTEN GUARANTEE THAT THE ELECTRICAL INSTALLATION IS FREE FROM MECHANICAL AND ELECTRICAL DEFECTS. CONTRACTOR AT THEIR COST SHALL REPLACE AND/OR REPAIR, TO THE SATISFACTION OF THE OWNER AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, ANY PARTS OF THE INSTALLATION WHICH MAY FAIL WITHIN A PERIOD OF 12 MONTHS FROM CONSTRUCTION ACCEPTANCE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, PROVIDED THAT SUCH FAILURE IS DUE TO DEFECTS IN MATERIAL, WORKMANSHIP, OR FAILURE TO FOLLOW THE SPECIFICATIONS, MANUFACTURER'S INSTALLATION INSTRUCTIONS AND/OR DRAWINGS.

46. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROPERLY SIZED WALL OR MILLWORK MOUNTED BOXES, RINGS, SUPPORTS, AND DEVICES AS REQUIRED VIA COORDINATION WITH ARCHITECTURAL WALL SECTIONS, AND MILLWORK DETAILS.

47. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS. WHERE MORE STRINGENT REQUIREMENTS THAN THOSE DESCRIBED HEREIN OR AS SET FORTH UNDER CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION, THOSE GREATER REQUIREMENTS SHALL BE ADHERED TO.

48. ALL NEW EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE PROVIDED WITH AN INTEGRAL EMERGENCY BACKUP BALLAST TO ILLUMINATE THE FIXTURES IN THE EVENT OF A POWER FAILURE. ALL COMPONENTS SHALL BE IN COMPLIANCE WITH NFPA 101 AND NFPA 70 SECTION700. BALLAST BATTERY SHALL MAINTAIN 87.5% OF THE NOMINAL BATTERY VOLATAGE AFTER 1.5 HOURS TO COMPLY WIT HNEC SECTION700 AND UL 924.

49. IDENTIFICATION OF ELECTRICAL ITEMS

   A. PROVIDE PERMANENT IDENTIFICATION MARKING AND NAMEPLATES FOR ALL CONDUCTORS AND EACH ITEM OF ELECTRICAL APPARATUS AND ASSOCIATED CONTROLLED EQUIPMENT, WITH THE SAME INSCRIPTIONS AS SHOWN ON THE DRAWINGS. ALL IDENTIFICATION MARKINGS SHALL BE CLEARLY AND NEATLY APPLIED.

   B. APPLY ENGRAVED PLASTIC LAMINATE NAMEPLATES WITH NON-CORRODING TYPE SCREW FASTENERS OR RIVETS TO ALL MOTOR STARTERS, DISCONNECT SWITCHES, RELAYS, REMOTE CONTROL PANELS, PUSH BUTTON STATIONS, PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL APPARATUS. NAMEPLATES SHALL BE WHITE WITH BLACK CORE, 1-1/4" X 3" MINIMUM WITH 3/16" HIGH LETTERING. THE NAMEPLATE SHALL IDENTIFY:
      -NAME OF DEVICE OR
      -LOAD THE DEVICE IS SERVING

   C. PROVIDE A TYPEWRITTEN DIRECTORY OF CIRCUITS IN LIGHTING AND POWER PANELS AND PROVIDE PANEL IDENTIFICATION IN BLACK ALKYD PAINT STENCILED INSCRIPTIONS ON THE INSIDE OF THE DOOR, DIRECTLY ABOVE THE CENTERLINE OF THE DIRECTORY FRAME, OR ON THE VERTICAL AND HORIZONTAL CENTERLINE OF DOORS WITHOUT DIRECTORY FRAMES.

   D. PROVIDE ON DEVICE PLATES FOR LOCAL TOGGLE SWITCHES, TOGGLE SWITCH MANUAL STARTERS, PILOT LIGHTS AND OTHER ELECTRICAL ITEMS, WHOSE FUNCTION IS NOT READILY APPARENT, ENGRAVED SUITABLE INSCRIPTIONS OR PLASTIC LAMINATE NAMEPLATES DESCRIBING THE EQUIPMENT CONTROLLED OR INDICATED.

   E. EMBOSSED SELF-ADHERING PLASTIC TAPE LABELS WILL NOT BE ACCEPTED.

50. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL EXISTING OR NEW NON-ACCESSIBLE SYSTEM DEVICES, PULLBOXES, AND EQUIPMENT, ETC. FOR RELOCATION TO ACCESSIBLE CEILING AREAS. E.C. SHALL INCLUDE ALL COMPLETE COSTS FOR RELOCATION AND VERIFY SUCH CONDITIONS WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL BIDS.

51. EXISTING CONDITIONS OF ALL EXISTING BUILDING EQUIPMENT, DEVICES, FIXTURES, AND SYSTEMS THAT REQUIRE REWIRING, REUSE, RELOCATION, OR REFURBISHING AS PER DRAWINGS AND SPECIFICATIONS SHALL BE FIELD VERIFIED BY THE E.C. PRIOR TO COMMENCEMENT OF ANY WORK TO BE COMPLETELY OPERATIONAL. E.C. SHALL SUBMIT A WRITTEN STATEMENT AND ITEMIZED LISTING OF ALL EXISTING CONDITIONS OF THE FOLLOWING, ALTHOUGH NOT LIMITED TO THOSE LISTED:

   A. HVAC EQUIPMENT
   B. EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES
   C. LIFE SAFETY/FIRE ALARM SYSTEM DEVICES
   D. LIGHTING AND RECEPTACLE DEVICES.

   THE WRITTEN STATEMENT SHALL BE SUBMITTED TO THE PROJECT MANAGER, ARCHITECT, AND ENGINEER PRIOR TO WORK. IN THE EVENT THAT THE CONTRACTOR COMMENCES WORK WITHOUT SUBMITTAL, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND COST TO MAINTAIN THE ABOVE IN GOOD WORKING ORDER AND CONDITION.

52. E.C. SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL EELECTRICAL AND COMMUNICATIONS OUTLETS. ELECTRICAL ENGINEERING DRAWINGS SHALL BE USED FOR CIRCUITING INFORMATION ONLY.

53. E.C. SHALL REFER TO MECHANICAL AND PLUMBING ENGINEERING DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT.

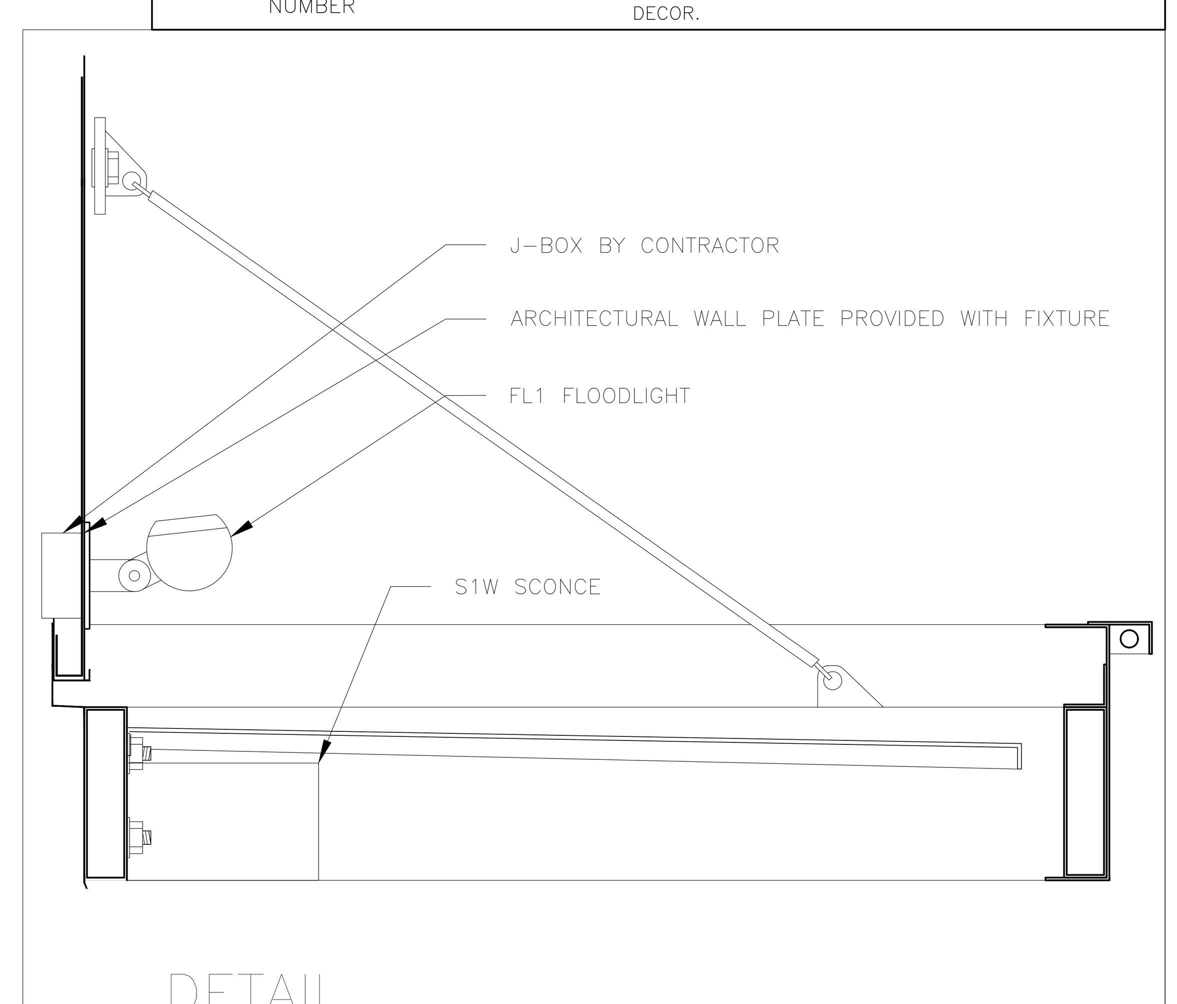
LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS WATTS	LAMPS TYPE	BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
F2		2' X 4' GRID TROFFER	PRISMATIC ACRYLIC	45W	LED	–	RECESSED	SECURITY LIGHTING: # SLLJT24-35MLG-FSA12-EU-WP
F7		1' X 4' GRID TROFFER	PRISMATIC ACRYLIC	35W	LED	–	RECESSED	SECURITY LIGHTING # SLLT14-35HLG-FSA12F-EU-WP
F12S		6" LED DOWN LIGHT	–	12W	LED	–	RECESSED	SECURITY LIGHTING #LB6LEDA10L-35K-9-SA/DBXQL
F12SA		6" LED ADJUSTABLE DOWN LIGHT	–	12W	LED	–	RECESSED	SECURITY LIGHTING #LB6LEDA10L-35K-9-WW-SA/DBXQL
F12G		6" LED DOWN LIGHT – SHALLOW HOUSING GOLD TRIM	–	12W	LED	–	RECESSED	SECURITY LIGHTING #LB6LEDA10L-50K-9-GD/IBXS
F20		EXIT SIGN WITH BATTERY BACKUP	–	1.8W	LED	–	SURFACE	SECURITY LIGHTING: PRB. SEE NOTE LS2 ON THIS SHEET
F21		2 HEADED EMERGENCY BATTERY LIGHT	–	–	LED	–	SURFACE TO WALL OR CEILING	SECURITY LTG. #EV4D
F22		EMERG BATTERY & 2 REMOTE HEADS	–	–	LED	–	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D-02L-0/EVODB
F23		2 HEADED EMERG LIGHT & 2 REMOTE HEAD IF REQ'D	–	–	LED	–	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D/EVODB
S1H		"DOWN ONLY" RADIAL WALL SCONCE – SILVER FINISH	TEMPERED GLASS	(1)-14W	LED	–	WALL	SECURITY LIGHTING: #RWSC-36L-5K-DO-U-PS
S2H		"UP/DOWN" RADIAL WALL SCONCE – SILVER FINISH	TEMPERED GLASS	(1)-25W	LED	–	WALL	SECURITY LIGHTING: #RWSC-72L-5K-UD-U-PS
S1W		"DOWN ONLY" RADIAL WALL SCONCE – WHITE FINISH	TEMPERED GLASS	(1)-14W	LED	–	WALL	SECURITY LIGHTING: #RWSC-36L-5K-DO-U-WH
SLED3		DOWN ONLY ACCENT LIGHTING	TEMPERED GLASS	1-30W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: SL-LED-36-DO-120-PS
LED2D-HE		DOWN ONLY ACCENT LIGHTING	TEMPERED GLASS	1-10W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: HIRAF-LED-24-DO-120-PS
LED3D-HE		DOWN ONLY ACCENT LIGHTING	TEMPERED GLASS	1-14W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: HIRAF-LED-36-DO-120-PS
LED4D-HE		DOWN ONLY ACCENT LIGHTING	TEMPERED GLASS	1-19W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: HIRAF-LED-48-DO-120-PS
FL1		UP ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-16W PER FIXTURE	LED	–	WALL	SECURITY LIGHTING: EL218-W-5-8L-5K-UV-VWH-JW

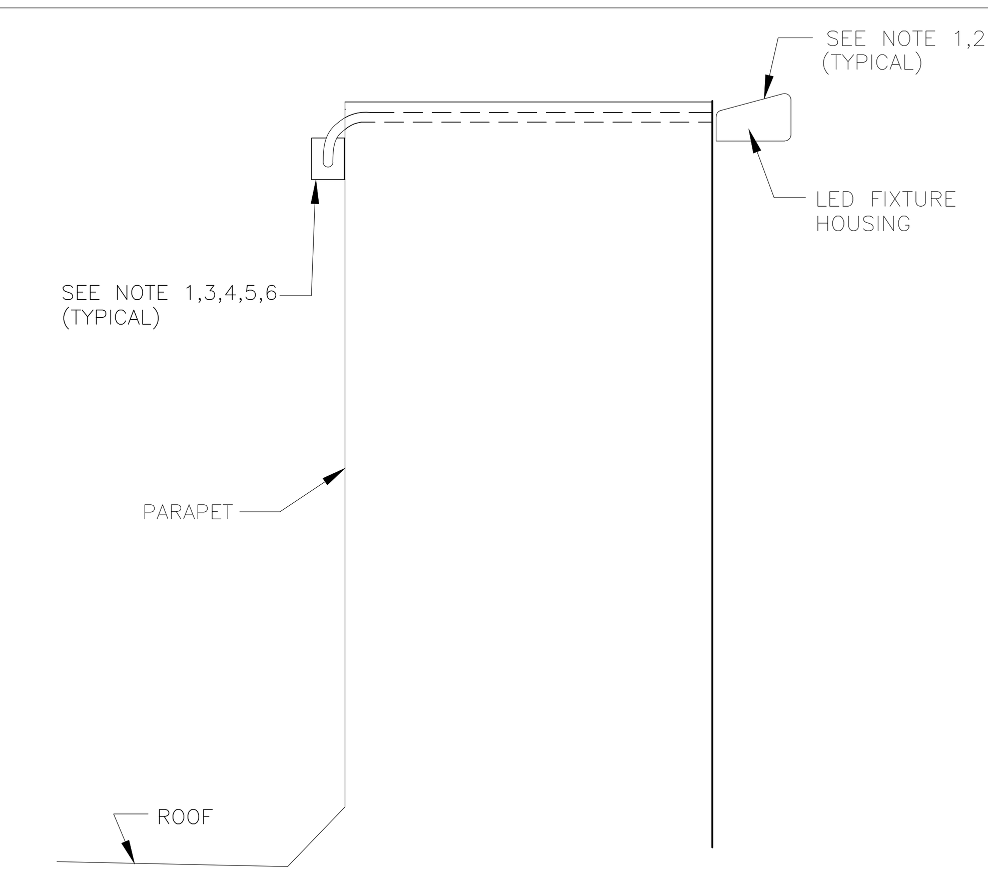
KEY

DENOTES FIXTURE TYPE — F2
DENOTES CIRCUIT NUMBER — 41
LIGHTING FIXTURES SHOWN HALF SHADED SHALL BE WIRED TO AN EMERGENCY INVERTER AND CIRCUITED AS A NIGHT LIGHT. SEE NOTE EL3 ON THIS SHEET. COORDINATE LOCATION WITH DECOR.

DENOTES FIXTURE TYPE — F2
DENOTES CIRCUIT NUMBER — 41
LIGHTING FIXTURES SHOWN WITH A SLASH SHALL BE WIRED TO AN EMERGENCY INVERTER AND CIRCUITED AS SWITCHED EMERGENCY FIXTURES SO THE FIXTURE IS CONTROLLED VIA TIMECLOCK BUT TURNS ON UPON LOSS OF POWER. SEE NOTE EL3 ON THIS SHEET. COORDINATE LOCATION WITH DECOR.



DETAIL
SCALE: SCALE



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

GENERAL NOTES

1. PLACE LED FIXTURE AT DESIRED LOCATION AND INSTALL FIXTURE FROM LEFT TO RIGHT WHEN FACING ARCADE AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO THE NEXT AVAILABLE SPARE 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
3. POWER SUPPLY SHALL ALWAYS BE INSTALLED TO THE LEFT SIDE OF FIXTURE WHEN FACING ARCADE.
4. OVERALL FIXTURE RUN TO BE CENTERED ON OVERALL LENGTH OF WALL.
5. LED FIXTURE SHALL MATCH COLOR OF CANOPY EITHER PLATINUM SILVER(PS) OR YELLOW (YL). VERIFY LED COLOR WITH AREA CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
6. CONNECT NEW LED FIXTURES TO EXISTING LIGHTING CIRCUIT(S) AS REQUIRED. ENSURE THAT CIRCUIT BREAKER AND CONDUCTOR SIZES DO NOT EXCEED 1200 WATTS ON A 15A CIRCUIT AND 1600 WATTS ON A 20A CIRCUIT. VERIFY EXISTING CONDITIONS AND REQUIREMENTS IN FIELD. PROVIDE ADDITIONAL CIRCUITS (C.B.,WIRING,CONDUITS)AS REQUIRED.

REV | DATE | DESCRIPTION | BY

STATE OF MISSOURI
JOHN DALE FERGUSON
NUMBER PE-2008014086
PROFESSIONAL ENGINEER
7/16/18

PREPARED BY: CORE STATES GROUP
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PREPARED FOR: McDonald's USA, LLC

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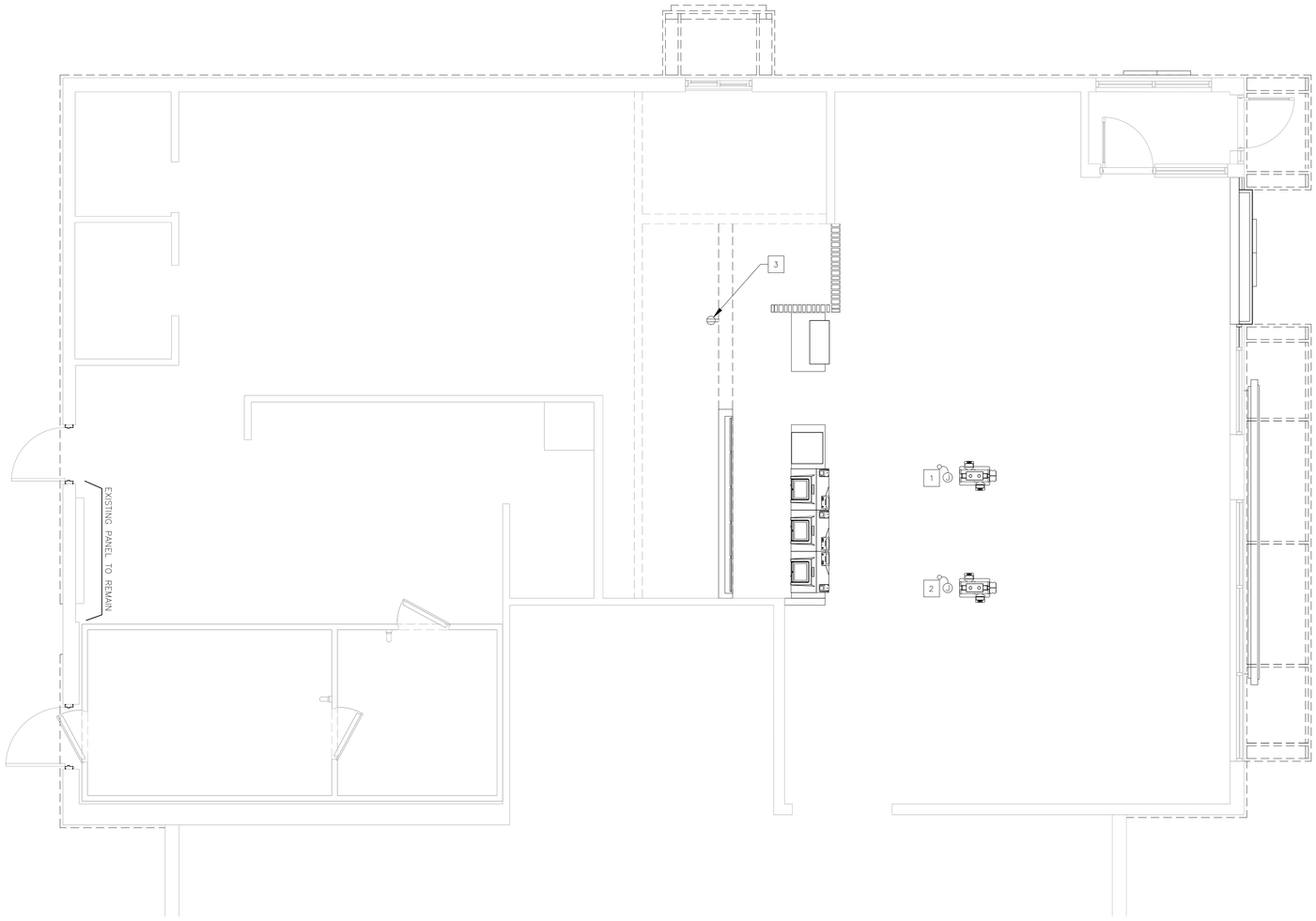
DRAWN BY: CHR
STD ISSUE DATE: DEC. 2017
REVIEWED BY: R.K.
DATE ISSUED: 06-19-2018
ROLA, MO

TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR – STO
DESCRIPTION
SITE ID: 024-1145
SITE ADDRESS: HIGHWAY 44 AND EXIT 189

24-1145.00.0
SHEET NO. E1.0
GENERAL NOTES



1 E1.1 ELECTRICAL ROUGH-IN PLAN
3/16"=1'-0"

SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH, 3W=THREE WAY SWITCH, K=KEYED SWITCHED	(B)	BUZZER
T	TRANSFORMER	B	BUTTON FOR BUZZER
	JB WITH DUPLEX CONVENIENCE OUTLET (FLUSH WITH CEILING)		PULLBOX
	JB WITH SINGLE CONVENIENCE OUTLET		PANELBOARD
	JB WITH DUPLEX CONVENIENCE OUTLET		CIRCUIT BREAKER
	JB WITH TWO DUPLEX CONVENIENCE OUTLETS	A	AMPERES
	JB WITH FLUSH FLOOR MOUNTED OUTLET	ACM	AREA CONSTRUCTION MANAGER
	JB WITH SPECIAL PURPOSE OUTLET	AFF	ABOVE FINISHED FLOOR
	JB WITH ISOLATED GROUND OUTLET = IG4710, =IG5261, =IG4700A, =IG5262	C	CONDUIT
		CCT	CIRCUIT
	INTERCOM STATION W/ 3/4"C- TO MAIN STATION	EC	ELECTRICAL CONTRACTOR
	TELEPHONE JACK	GC	GENERAL CONTRACTOR
J	JUNCTION BOX - WALL OR CEILING MOUNTED	GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	DISCONNECT SWITCH	GND	GROUND
S	STUB UP THRU ROOF	IG	ISOLATED GROUND
T	THERMOSTAT SENSOR W/ 1/2"C- UP TO CEILING SPACE	JB	JUNCTION BOX
M	MOTOR CONNECTION	KES	KITCHEN EQUIPMENT SUPPLIER
	CONDUIT RUN CONCEALED IN CEILING OR WALLS	MLO	MAIN LUGS ONLY
	CONDUIT RUN IN FLOOR SLAB	WP	WEATHERPROOF
T	MANUAL SWITCH (T=THERMAL OVERLOADS)		
X	HOT (SHORT), NEUTRAL (LONG), EQUIP GRD (LONG WITH DOT), & & "X" DENOTES ISOLATED GRD		
	J-BOX WITH FINAL EQUIPMENT CONNECTION		

GENERAL NOTES

1. SEE ELECTRICAL SCHEDULE FOR PANEL & CIRCUIT BREAKER ASSIGNMENT, VOLT/PH, FLA, BREAKER SIZE, COND/WIRE, RECEPTACLE TYPE, HEIGHT ABOVE FINISHED FLOOR, REQUIREMENTS & REMARKS FOR ALL ELECTRICAL EQUIPMENT.

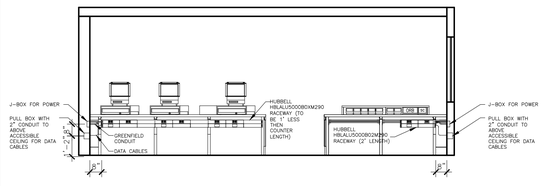
2. VERIFY OEP DROP CORDS DO NOT FALL BELOW HEIGHTS LISTED ON ELECTRICAL SCHEDULE. RECEPTACLES SHOULD BE LOCATED AT HEIGHTS TO AVOID CONTACT WITH HOT APPLIANCES.

KEY NOTES

1 PROVIDE POWER WITHIN CEILING FOR CONNECTION TO SELF ORDER KIOSKS. COORDINATE EXACT LOCATION OF KIOSKS WITH DECOR DRAWINGS. PROVIDE 2#12, 1#12 GRD., & 1#12 ISOLATED GROUND ON A 20A DEDICATED CIRCUIT FED FROM THE CP PANEL FOR EVERY ONE (1) DOUBLE SIDED OR TWO (2) SINGLE SIDED KIOSKS. IF RESTAURANT DOES NOT RECEIVE KIOSK, PROVIDE J-BOX AND 1/2" CONDUIT WITH PULL STRINGS TO TWO (2) SPARE 20A/1P BREAKERS WITHIN CP PANEL.

2 PROVIDE AN ALLOWANCE IN BID TO PROVIDE TWO(2) FLEXIBLE POWER CONNECTIONS FOR POWER TO FURNITURE/ FAMILY EXPERIENCE ELEMENTS AS PART OF THE DECOR PACKAGE. VERIFY EXACT LOCATIONS IN FIELD AND WITH DECOR DRAWINGS. PROVIDE ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE AND FULLY NEC CODE COMPLIANT INSTALLATION. ALL COMPONENTS SHALL BE FED FROM A GFCI TYPE CIRCUIT BREAKER AND BRANCH CIRCUIT SHALL CONTAIN TWO PATHS OF GROUNDING (CONDUIT BODY AND AN INSULATED GROUNDING CONDUCTOR) TO COMPLY WITH McDONALD'S GROUNDING STANDARDS.

3 VERIFY IF OPTIONAL TABLE TRACKER SYSTEM IS TO BE USED. IF USED, PROVIDE 2#12, 1#12 GRD TO AVAILABLE SPARE 20A/1P BREAKER. CONNECT CIRCUIT TO THREE (3) 5-20R RECEPTACLES, ONE (1) RECEPTACLE FOR MODEM/GATEWAY (TYPICALLY LOCATED BEHIND VALENCE AT 7'-9" A.F.F.), ONE (1) RECEPTACLE FOR LOCATOR CHARGER (TYPICALLY LOCATED IN MANAGER'S OFFICE), AND ONE (1) RECEPTACLE FOR MONITOR (TYPICALLY LOCATED AT PICKUP COUNTER). COORDINATE EXACT LOCATION(S) IN THE FIELD.



2 E1.1 MODULAR COUNTER RACEWAY (TYP.)
N.T.S.

SYMBOL	CATALOG #	DESCRIPTION	QUANTITY
	HBLAUS70R & IG4700	RECEPTACLE COVERPLATE WITH ORANGE, TWIST LOCK, ISOLATED GROUND DUPLEX RECEPTACLE	1 PER RECEPTACLE
	HBLAUS70R & IG5262	RECEPTACLE COVERPLATE WITH ORANGE, STRAIGHT BLADE, ISOLATED GROUND DUPLEX RECEPTACLE	1 PER RECEPTACLE
	HBLAUS7LPB	COMMUNICATIONS COVERPLATE	1 PER REGISTER & 1 FOR DUAL POINT & 1 FOR ANALOG WIRELESS OPTION
	HBLAUS70B	BLANK COVERPLATE	AS NECESSARY TO FILL RACEWAY
	HBLAUS000802M290	2' SECTION OF RACEWAY, INCLUDES COUPLERS	1 FOR PICK UP COUNTER AND AS NECESSARY TO MAKE ORDER COUNTER RACEWAY 1" LESS THEN COUNTER LENGTH
	HBLAUS000804M290	4' SECTION OF RACEWAY, INCLUDES COUPLERS	AS NECESSARY TO MAKE ORDER COUNTER RACEWAY 1" LESS THEN COUNTER LENGTH
	HBLAUS000805M290	5' SECTION OF RACEWAY, INCLUDES COUPLERS	AS NECESSARY TO MAKE ORDER COUNTER RACEWAY 1" LESS THEN COUNTER LENGTH
	HBLAUS010B	BLANK END FITTING	AS NEEDED
	HBLAUS010B2M2	SERVICE ENTRANCE FITTING & BUSHING FOR DATA CABLES	AS NEEDED
N/A	HBLAUS701	COUPLER (INCLUDED WITH RACEWAY SECTION)	RECEIVE 1 PAIR PER RACEWAY SECTION
N/A	HBLAUS709	GROUND ADAPTER	AS NEEDED

NOTES:
1. RACEWAY AND RECEPTACLES TO BE PROVIDED WITH MODULAR FRONT COUNTER, INSTALLED BY CONTRACTOR.
2. DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE DEVIATIONS.

REV	DATE	DESCRIPTION	BY

STATE OF MISSOURI
JOHN DALE FERGUSON
NUMBER PE-2009014085
PROFESSIONAL ENGINEER
7/16/18

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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	REVIEWED BY
CHR	R.K.
STD ISSUE DATE	DATE ISSUED
DEC. 2017	06-19-2018

TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR - STO
DESCRIPTION

SITE ADDRESS: HIGHWAY 44 AND EXIT 189
ROLLA, MO

SITE ID: 024-1145

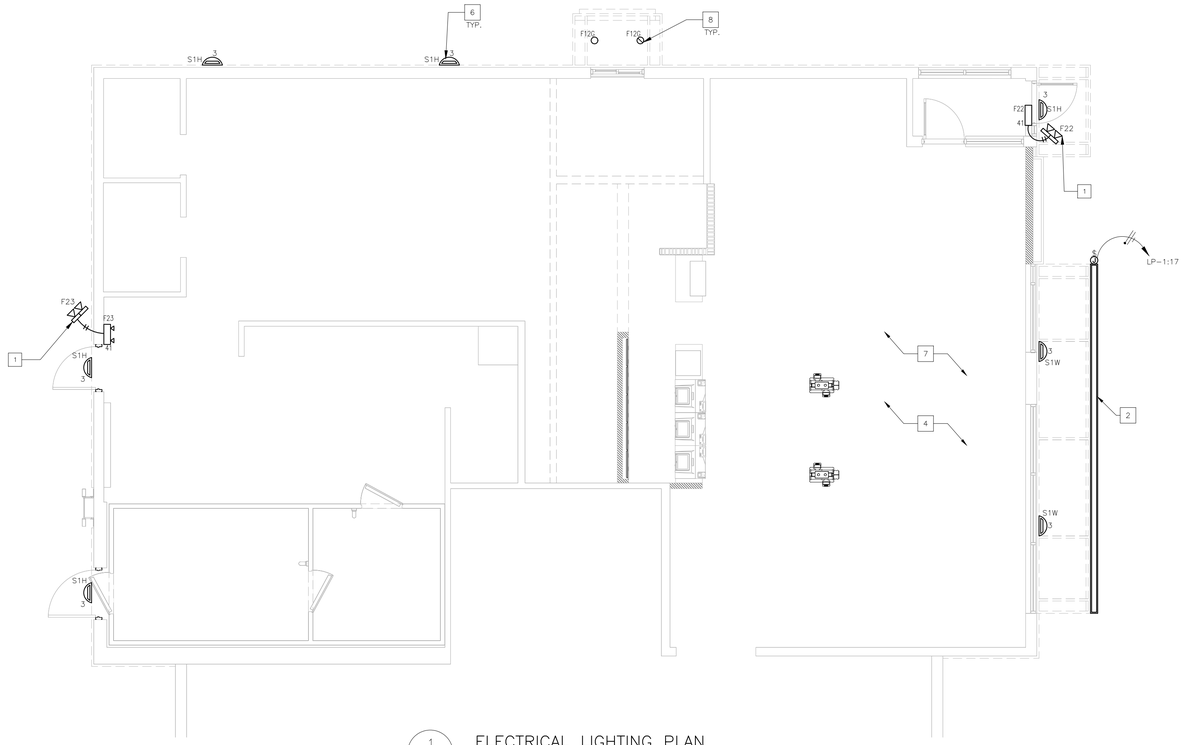
SHEET NO. E1.1
FLOOR PLAN & NOTES

24-1145.00.0

KEY

DENOTES FIXTURE TYPE — F2 — DENOTES CIRCUIT NUMBER

LIGHTING FIXTURES SHOWN HALF SHADED SHALL BE WIRED TO THE NIGHT LIGHTING CIRCUIT AND PROVIDED WITH A BATTERY TYPE EMERGENCY BALLAST. SEE NOTE EL3 ON THIS SHEET. COORDINATE LOCATION WITH DECOR.



1 / E2.0 ELECTRICAL LIGHTING PLAN
3/16" = 1'-0"

EMERGENCY LIGHTING NOTES

EL1. EC SHALL INSTALL A LOCK ON CIRCUIT BREAKER HANDLE. FOR ALL EMERGENCY LIGHTING CIRCUITS. EC SHALL VERIFY ALL REQUIREMENTS AND FINAL EMERGENCY LIGHTING LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.

EL2. IF NOT INSTALLED BY MANUFACTURER, EC SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE EMERGENCY INVERTER BALLAST IN NIGHT LIGHTING FIXTURES SHOWN ON THIS SHEET.

EL3. ALL FIXTURES DENOTED AS NIGHT LIGHTING FIXTURES SHALL BE PROVIDED WITH A BATTERY INVERTER EMERGENCY TYPE BALLAST. EMERGENCY BALLAST SHALL BE A TWO LAMP TYPE OF 600– 700 INITIAL LUMEN RATED (MINIMUM) TO ILLUMINATE FIXTURE IN THE EVENT OF A POWER FAILURE. BALLAST BATTERY SHALL MAINTAIN 87.5% OF THE NOMINAL BATTERY VOLTAGE AFTER 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL924. BALLAST SHALL BE AS MANUFACTURED BY BODINE, (MODEL B60 FOR T8 APPLICATIONS) SECURITY LIGHTING (MODEL UFO120 FOR COMPACT FLUORESCENT APPLICATIONS) OR AN APPROVED EQUAL TO MEET THE SPECIFICATIONS LISTED ABOVE. LED FIXTURES DENOTED AS NIGHT LIGHTING SHALL BE APPROVED WITH DUAL LITE LIGHTING INVERTER MODEL # LG125T. INVERTER SHALL BE CAPABLE OF ILLUMINATING FIXTURE FOR 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL924. E.C. SHALL NOT INSTALL MORE THEN EIGHT FIXTURES TO EACH INVERTER. PROVIDE ADDITIONAL INVERTERS AS NECESSARY.

EL5. EMERGENCY LIGHTING HAS BEEN DESIGNED PER NFPA 101 TO MAINTAIN 1 FC IN PATH OF EGRESS. IF FIELD CONDITIONS REQUIRE ANY CHANGES TO LIGHTING DESIGN, EMERGENCY LIGHTING, SHALL BE INSTALLED TO MEET THE ABOVE REQUIREMENTS.

SEE DRAWING E1.0 FOR LIGHTING FIXTURE SCHEDULE

GENERAL NOTES FOR DRAWING E2.0:

OUTDOORS

P1. E.C. SHALL PROVIDE AN ADDITIVE ALTERNATE COST (ELEC–DT–1) TO PROVIDE POWER FOR A NEW MENU BOARD, POWER AND DATA FEEDS AND CONNECTIONS FOR A NEW COD, AND A LANE MONITOR. COD LOCATIONS SHALL EACH BE PROVIDED WITH A NEW ISOLATED GROUNDING TYPE CIRCUIT, AND A NEW 2" DATA CONDUIT TO NEW LOCATION. ALL WORK AND INSTALLATION LOCATIONS SHALL BE COORDINATED WITH THE MCDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION.

P2. E.C. SHALL PROVIDE POWER FOR NEW EXTERIOR LAWN MOUNTED WALL WASHING LIGHT FIXTURES AS LOCATED ON SITE PLAN.

KEY NOTES

1. EC SHALL INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGRESS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGRESS. INSTALL WP J–BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EXTERIOR EMERGENCY EGRESS LIGHTING (TYPICAL).
2. CANOPY LIGHT. CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING THE SOFFIT/AWNING LIGHTS. EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH CANOPY MANUFACTURER. VERIFY EXACT INFEED REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E1.0. (TYPICAL)
3. NOT USED
4. ALL SOFFIT LOCATIONS, LIGHTING, & SUPPLY GRILLS SHALL BE COORDINATED WITH DECOR COMPANY DRAWING PRIOR TO INSTALLATION.
5. NOT USED
6. RADIAL WALL SCONCE. SEE ARCHITECTURAL ELEVATIONS (TYPICAL).
7. PROVIDE POWER FOR LIGHT WITHIN TOY DISPLAY. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.
8. REUSE EXISTING CIRCUITRY AND CONTROL SERVING FACADE LIGHTING FOR DRIVE THRU FACADE LIGHTING.

GENERAL NOTES FOR DRAWING E2.0:

LIGHTING

1. ALL LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.
2. LIGHTING FIXTURES AND LAMPS HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. LAMP SPECIFICATIONS SHALL BE STRICTLY FOLLOWED. ANY DEVIATION FROM LAMP SPECIFICATIONS SHALL BE APPROVED IN WRITING BY McDONALD'S CORPORATION.
3. PROVIDE A WEATHERPROOF JUNCTION BOX IN PARAPET FOR FASCIA SIGNS. FINAL CONNECTION BY OTHERS. VERIFY EXACT LOCATION OF SIGN WITH McDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION.
4. EC SHALL COORDINATE LOCATION OF ALL EXTERIOR LIGHTS WITH McDONALD'S PROJECT MANAGER TO AVOID INTERFERENCE WITH ANY CORBELS, TRUSSES, BEAMS OR OTHER SPECIAL EXTERIOR TREATMENTS. INSTALL LIGHT FIXTURES WITH CORRECT ORIENTATION PER MANUFACTURER'S INSTRUCTIONS.
5. EC SHALL FIELD VERIFY THAT ALL LIGHT FIXTURES SHOWN ON THIS PLAN DO NOT OBSTRUCT OR CONFLICT WITH THE WORK OF OTHER TRADES. IF A DISCREPANCY IS FOUND, THE EC SHALL IMMEDIATELY NOTIFY THE GC BEFORE THE INSTALLATION OF SUCH FIXTURE(S).
6. ORDER LED EXIT SIGNS WITH LETTER COLORS THAT COMPLY WITH LOCAL CODES FROM SECURITY LIGHTING.
   – FOR RED LETTERS USE #PRB (UNIVERSAL),
   – FOR GREEN LETTERS USE #PGB (UNIVERSAL), OR
   IF THE ABOVE EXIT SIGNS DO NOT COMPLY WITH LOCAL CODES USE: LED SIGN WITH BATTERY BACKUP, LETTER SIZE, COLOR, TYPE & DIRECTIONAL ARROWS AS REQUIRED BY THE LOCAL AUTHORITIES.

INSTALLATION METHODS

7. EC SHALL INSTALL ALL SOFFIT LIGHTING FIXTURES AWAY FROM BUILDING WALL. FIXTURES SHALL BE LOCATED TO AVOID INTERFERENCE WITH STRUCTURAL MEMBERS ABOVE SOFFIT.
8. THE USE OF "MC" CABLE IN LENGTHS OF 6 FEET OR LESS (WHERE PERMITTED BY LOCAL CODES) SHALL BE ALLOWED FOR WIRING TO THE LIGHTING FIXTURES. "ROMEX" OR "BX" SHALL NOT BE USED.
9. EC SHALL VERIFY THAT NOT MORE THAN 3% VOLTAGE DROP EXISTS FROM THE LIGHTING PANEL TO ANY EXTERIOR LIGHTING FIXTURE OR SIGNAGE BALLAST.

SPECIALITY LIGHTING

10. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND REQUIREMENTS FOR THE FACADE ARCADE LIGHTING ELEMENTS, AND CANOPY ELEMENTS.

PROJECT DEMOLITION NOTES:

THE FOLLOWING PROVIDES A GENERAL SCOPE OF WORK FOR THE ELECTRICAL CONTRACTOR FOR THE DEMOLITION REQUIREMENTS OF THIS SITE. THIS SECTION IS NOT ALL INCLUSIVE, AND THE CONTRACTOR SHALL VISIT THE SITE AND COMPARE EXISTING CONDITIONS TO THE REQUIREMENTS DENOTED ON THE CONSTRUCTION DOCUMENTS TO DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED. E.C. SHALL PROVIDE ALL DEMOLITION WORK REQUIRED IN ORDER TO ALLOW FOR THE COMPLETE INSTALLATION AS DENOTED WITHIN THESE DRAWINGS.

OUTDOOR BUILDING LIGHTING/POWER

D1. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL OF THE EXTERIOR ILLUMINATED ROOF BEAMS FROM THE BUILDING. REMOVE ALL FIXTURES, WIRING, WHIPS, AND CONDUIT TO ALLOW FOR THE NEW FACADE INSTALLATION AS DENOTED ON THE PLANS. COORDINATE ALL WORK WITH OTHER TRADES AND WITH THE PROJECT MANAGER.

D2. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXTERIOR ELECTRICALLY POWERED FASCIA SIGNAGE FROM THE BUILDING. REMOVE ALL SIGNAGE, WIRING, WHIPS, AND CONDUIT TO ALLOW FOR THE NEW FACADE INSTALLATION AS DENOTED ON THE PLANS. COORDINATE ALL WORK WITH OTHER TRADES AND WITH THE PROJECT MANAGER.

D3. THE ELECTRICAL CONTRACTOR SHALL RELOCATE ALL EXTERIOR ROOF MOUNTED GENERAL PURPOSE OUTLETS AND ALL PHOTOCELLS AS REQUIRED TO ALLOW FOR THE NEW FACADE INSTALLATION. COORDINATE EXACT EXTENT OF WORK WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD WITH THE PROJECT MANAGER. RECEPTACLES SHALL BE INSTALLED SO AS TO BE WITHIN 25'–0" OF ANY ROOFTOP HVAC EQUIPMENT PER NEC 210.63.

D4. E.C. SHALL VERIFY WHETHER EXISTING OUTDOOR RECEPTACLES ARE GFCI PROTECTED. IF NOT, E.C. SHALL PROVIDE NEW GFCI TYPE PROTECTED RECEPTACLE DEVICES IN PLACE OF EXISTING. E.C. SHALL ALSO PROVIDE WEATHERPROOF COVERS FOR ALL OUTDOOR RECEPTACLES TO COMPLY WITH NEC SECTION 406.8(B).

GENERAL

D5. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SALVAGE REQUIREMENTS FOR ALL EQUIPMENT REMOVED AS PART OF THE DEMOLITION WORK WITH THE CONSTRUCTION PROJECT MANAGER. ALL EQUIPMENT TO BE SALVAGED AND/OR REUSED SHALL BE PROTECTED FROM DAMAGE UNTIL REINSTALLED OR THE TIME PERIOD WHEN IT IS TURNED OVER TO THE OWNER AND/OR THE PROJECT MANAGER.

D6. SEE THE GENERAL ELECTRICAL SPECIFICATIONS AND NOTES ON SHEET E1.0 FOR ADDITIONAL GENERAL REQUIREMENTS.

REV	DATE	DESCRIPTION	BY

STATE OF MISSOURI — JOHN DALE FERGUSON — NUMBER PE-2009014085 — PROFESSIONAL ENGINEER — 7/16/18

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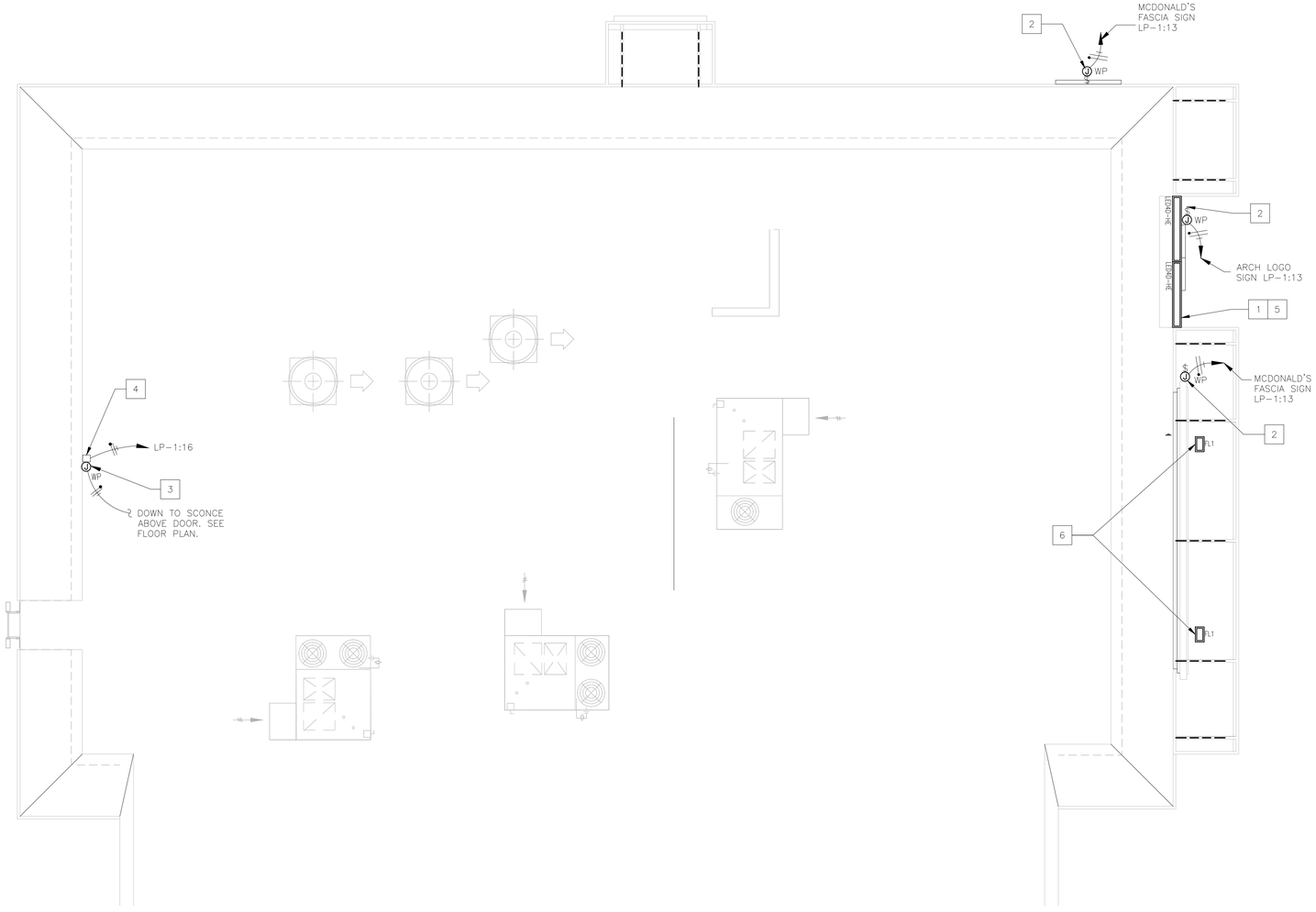
DRAWN BY	CHR
STD ISSUE DATE	DEC. 2017
REVIEWED BY	R.K.
DATE ISSUED	06–19–2018

TITLE: 2017 MRP 2.0 CRITERIA SET
CORE 16 EXTERIOR – STO
DESCRIPTION

SITE ADDRESS: HIGHWAY 44 AND EXIT 189 ROLLA, MO

SITE ID: 024–1145

SHEET NO. E2.0
24–1145.00.0
FLOOR PLAN & NOTES



1 / E3.0 ELECTRICAL ROOF PLAN

1/4" = 1'-0"

SEE DRAWING E1.0 FOR LIGHTING FIXTURE SCHEDULE

SEE DRAWING E2.0 FOR LIGHTING NOTES

KEY NOTES

1. CUSTOM LED DOWNLIGHTING FIXTURES FOR ARCADE WALLS AND HEARTH; ORDERED FROM SECURITY LIGHTING. CONTRACTOR TO FIELD VERIFY FIXTURE MOUNTING HEIGHT, LOCATION, QUANTITY, FIXTURE LENGTHS, AND ALL ELECTRICAL CONNECTION REQUIREMENTS WITH SECURITY LIGHTING AND McDONALD'S AREA CONSTRUCTION MANAGER PRIOR TO ORDERING AND INSTALLATION.
2. E.C. SHALL PROVIDE A JUNCTION BOX FOR ARCH LOGO / McDONALD'S FASCIA / PLAY-PLACE SIGN. COORDINATE EXACT LOCATION IN FIELD WITH ACM. ALL SIGNS PROVIDED WITH INTEGRAL DISCONNECT SWITCH FROM MANUFACTURER.(TYPICAL)
3. E.C SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX ON INSIDE OF FACE OF PARAPET FOR PHOTOCELL INSTALLATION. MOUNT JB 6" BELOW TOP OF PARAPET. PHOTOCELL FURNISHED AND INSTALLED BY EC. MOUNT FACING NORTH.
4. PHOTOCELL ON ROOF (SEE SHEET LIGHTING PLAN FOR CONTINUATION AT DOOR LOCATIONS).
5. ADJUST FIXTURE POSITION TO PROVIDE MAXIMUM ILLUMINATION OF ARCH LOGO
6. OPTIONAL ADJUSTABLE WALL WASH FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. EC SHALL VERIFY EXACT LOCATION SO AS TO ADEQUATELY ILLUMINATE McDONALD'S ARCH LOGO SIGN AND GRAPHICS. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR EXACT PLACEMENT (TYPICAL). REUSE EXISTING SIGNAGE CIRCUITRY AND CONTROL SERVING FRONT SIGN.

BY	DESCRIPTION	DATE	REV

STATE OF MISSOURI
JOHN DALE FERGUSON
NUMBER PE-2009014085
PROFESSIONAL ENGINEER
7/16/18

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E3.0
ROOF PLAN & SCHEDULE