



## GENERAL NOTES

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

## ABBREVIATIONS

### GENERAL ABBREVIATIONS

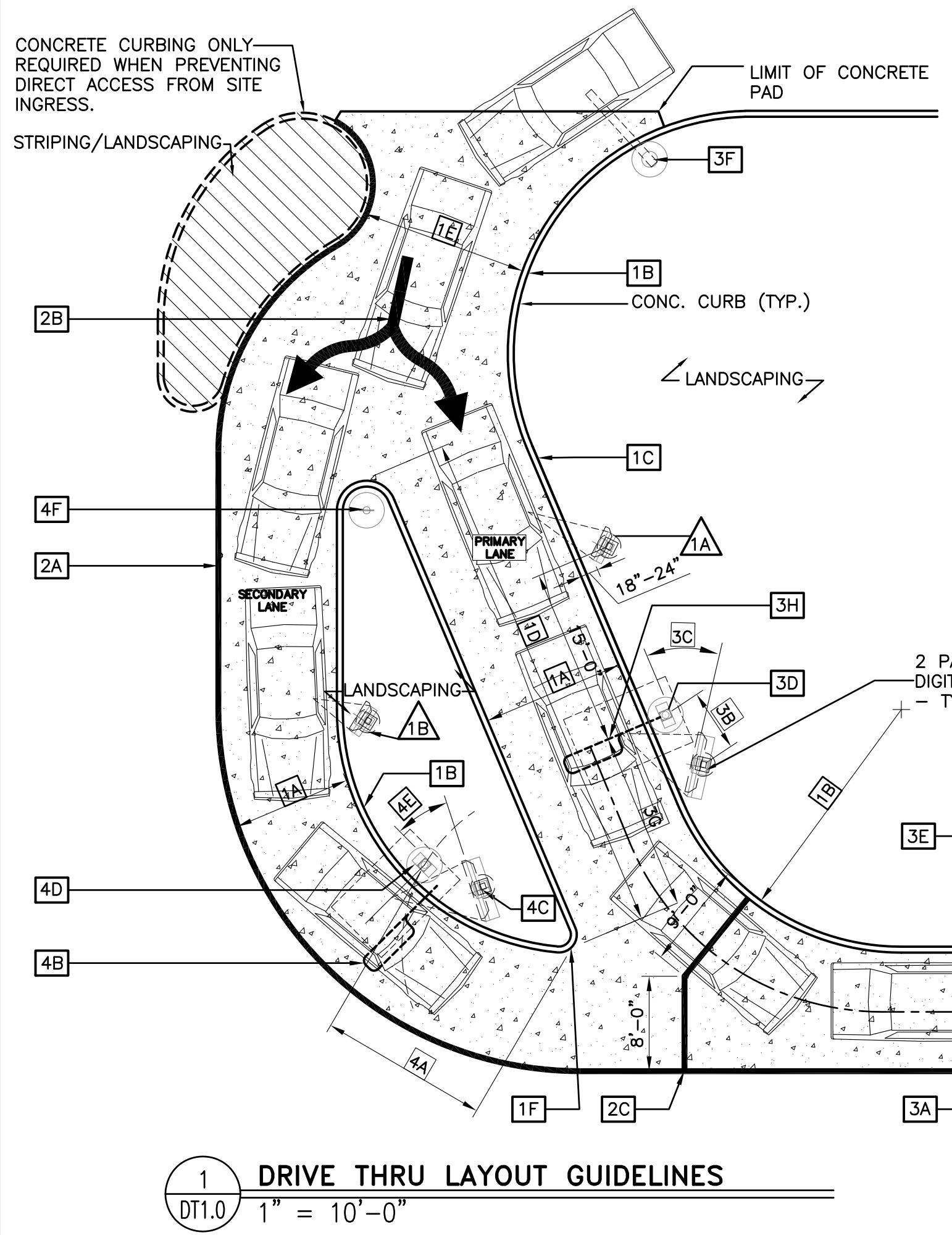
|        |                                        |       |                        |
|--------|----------------------------------------|-------|------------------------|
| A      | ANNEALED                               | INSUL | INSULATION             |
| AC     | AIR CONDITIONING                  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

### McDONALD'S ABBREVIATIONS

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

|                                                                                                                                      |  |                                                       |  |                                                                      |  |                                                                      |  |                                                                                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|--|----------------------------------------------------------------------|--|----------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|--|
| SHEET NO.                                                                                                                            |  | TITLE                                                 |  | DRAWN BY                                                             |  | PREPARED BY:                                                         |  | DRAWN FOR:                                                                                                                          |  |
| 015-0071.00.0                                                                                                                        |  | 2019 STANDARD BUILDING - BB20<br>459-F10-WOOD/WOOD    |  | DIA<br>STD ISSUE DATE<br>2019_11                                     |  | McDonald's USA, LLC                                                  |  | 12400 ARCHITECTURE & PLANNING<br>BURNSVILLE, MN 55378<br>EMAIL: DATA@REPRISEDI.SIGN<br>PHONE: (952) 252-4042<br>FAX: (952) 252-4043 |  |
| DESCRIPTION                                                                                                                          |  | DESCRIPTION                                           |  | REVIEWED BY                                                          |  | REVIEWED BY                                                          |  | REVIEWED BY                                                                                                                         |  |
| WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/APOLIC PANEL/BRICK EXT. FINISH |  | KOD<br>DATE ISSUED<br>01/23/20                        |  | KO<br>DATE ISSUED<br>01/23/20                                        |  | KO<br>DATE ISSUED<br>01/23/20                                        |  | KO<br>DATE ISSUED<br>01/23/20                                                                                                       |  |
| SITE ID<br>015-0071                                                                                                                  |  | SITE ADDRESS<br>605 SOUTH 7TH STREET, KANSAS CITY, KS |  | SIGNATURE<br>Signature<br>Architect, Inc.<br>DIA<br>Date<br>01/23/20 |  | SIGNATURE<br>Signature<br>Architect, Inc.<br>DIA<br>Date<br>01/23/20 |  | SIGNATURE<br>Signature<br>Architect, Inc.<br>DIA<br>Date<br>01/23/20                                                                |  |
| REV #                                                                                                                                |  | DATE                                                  |  | REV #                                                                |  | DATE                                                                 |  | REV #                                                                                                                               |  |
| GN1.0                                                                                                                                |  | GENERAL NOTES                                         |  |                                                                      |  |                                                                      |  |                                                                                                                                     |  |

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

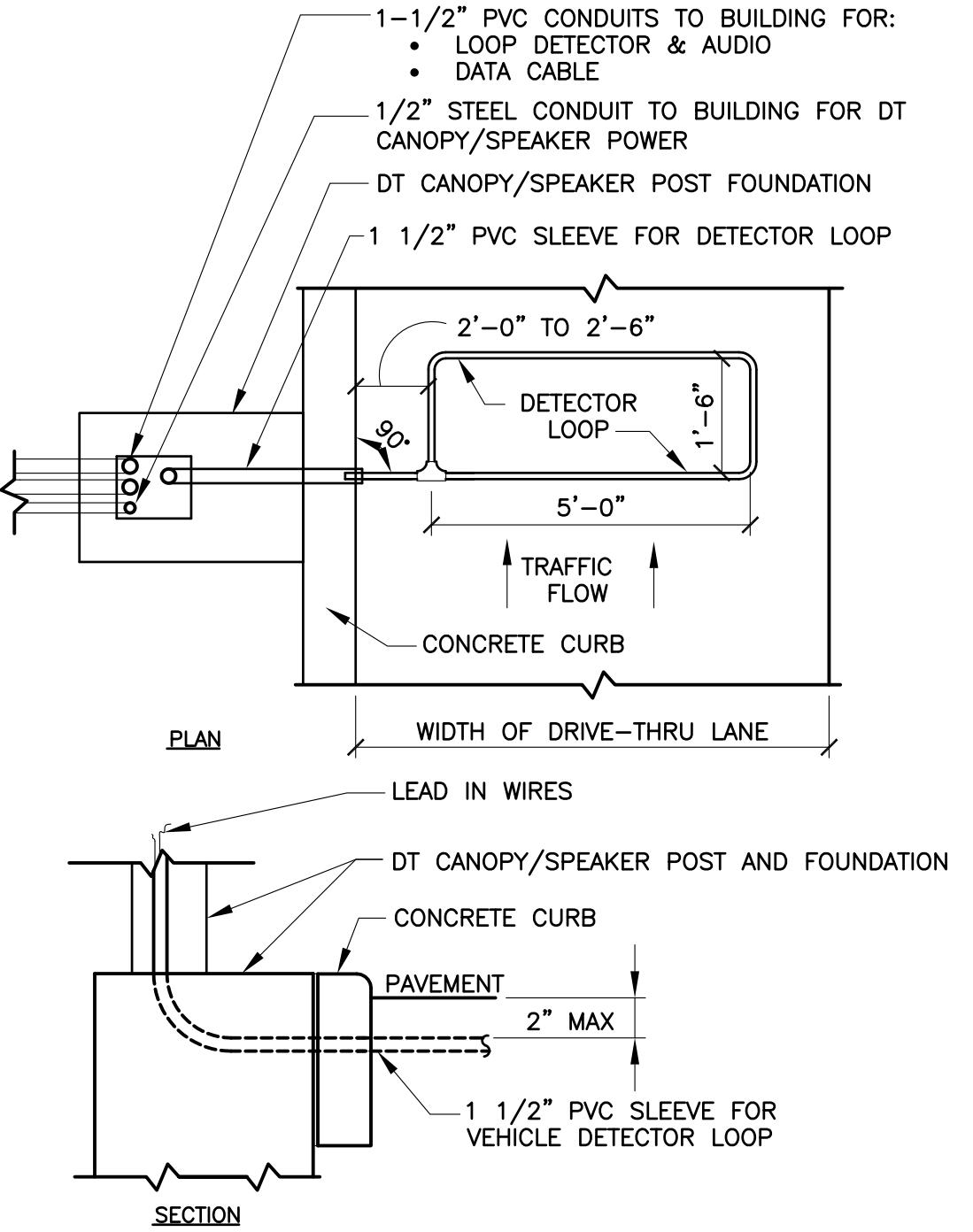


**1 DRIVE THRU LAYOUT GUIDELINES**

DT1.0 1" = 10'-0"

#### NOTES

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



**2 DETECTOR LOOP DETAILS**

DT1.0 NOT TO SCALE

#### SIDE BY SIDE DRIVE-THRU STANDARD 1.0

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 CURBING DETAILS:**
  - 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".
  - THE MIN. RADIUS FOR ALL INSIDE/DRIVER'S SIDE DRIVE-THRU CURBING IS 20'-0".
  - PRIMARY LANE CURBING SHOULD BE AS STRAIGHT AS POSSIBLE. (LESS CURVING, THE BETTER).
  - THE OVERALL LENGTH OF THE CURBED ISLAND SHOULD BE 35'-45'. THE LENGTH OF THE ISLAND FROM THE DT CANOPY/SPEAKER ALLOWS FOR THREE CARS IN THE SECONDARY LANE, TWO IN THE PRIMARY LANE AND ONE AT THE COMMITMENT POINT.
  - ENTRANCE LANE ENTERING THE SIDE BY SIDE DRIVE-THRU IS TO BE 14'-0" MIN.
  - THE RADIUS FOR THE ISLAND TIP SHALL BE 1'-6".
- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 PAVEMENT MARKINGS:**
  - 6" WIDE YELLOW PAINT STRIPE TO SPAN OUTER EDGE OF THE ENTIRE DRIVE-THRU LANE. LANE STARTS AT DRIVE-THRU ENTRANCE WHERE "McDONALD'S GATEWAY" SIGN IS LOCATED.
  - DOUBLE-HEADED ARROW PAVEMENT MARKING. STANDARD STRIPING MARKINGS ARE 7"-0" SHAFT, 7'-0" ARROW STEM AND 3"-0" FOR THE ARROW HEAD. TIP OF ARROW HEAD TO BE LOCATED AT CENTER OF EACH LANE.
  - MERGE POINT IS LOCATED WHERE TWO VEHICLES LEAVING EACH DT CANOPY/SPEAKER SIMULTANEOUSLY MEET. THE MERGE POINT STRIPING IS TO BE LOCATED BY OFFSETTING THE INNER PRIMARY LANE BACK OF CURB 9'-0" AND OFFSETTING THE OUTER LANE STRIPING 8'-0". AT THE INTERSECTION OF THESE OFFSETS, A 6" YELLOW STRIPE IS TO BE MARKED PERPENDICULAR TO THE OUTER LANE AS WELL AS THE INNER PRIMARY LANE.
  - THE WORDS "THANK YOU" ARE TO BE PLACED 8" FROM THE EDGE OF THE YELLOW STRIPE TO THE BOTTOM OF THE WORD "YOU".
  - 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.
  - A CIRCLE DIRECTIONAL ARROW CENTERED ABOVE THE WORD "DRIVE THRU" USED TO INDICATE THE DRIVE THRU ENTRY POINT.

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR PRIMARY LANE:**
  - MIN. 60'-0" (+5', 60'-65') LINEAR DISTANCE BETWEEN THE CENTER LINE OF THE PRIMARY DT CANOPY/SPEAKER 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.
  - THE CENTER OF THE PRIMARY MENU BOARD FOUNDATION IS TO BE 5'-9" (5'-6" MIN. AND 6'-0" MAX.) FROM THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION WITH THE END CAP OF THE PRIMARY MENU BOARD 15" PREFERRED BUT NOT LESS THAN 12" FROM THE FACE OF CURB.
  - THE PRIMARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° TO 35° ANGLE (35° PREFERRED) FROM A CAR POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.
  - AUGER "McDONALD'S ORDER HERE CANOPY" CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
  - 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.
  - AUGER "McDONALD'S GATEWAY" SIGN FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
  - THE DISTANCE BETWEEN THE TIP OF THE CURBED ISLAND AND THE CENTER LINE OF THE PRIMARY DT CANOPY/SPEAKER MUST BE 15'-0". THIS MEASUREMENT IS TAKEN PARALLEL TO THE INSIDE CURB FACE OF THE PRIMARY LANE.
  - THE PRIMARY LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE PRIMARY DT CANOPY/SPEAKER.
- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR SECONDARY LANE:**
  - TO POSITION THE SECONDARY DT CANOPY/SPEAKER, DRAW AN ARC WITH A 14' RADIUS THAT IS CENTERED FROM THE MIDPOINT OF THE ISLAND TIP. THEN OFFSET THE FACE OF THE CURB BY 24" TO DETERMINE THE LOCATION OF CENTER OF FOUNDATION OF THE SECONDARY DT CANOPY/SPEAKER.
  - WHEN THE SECONDARY DT CANOPY/SPEAKER IS LOCATED AT 14'-0" FROM THE TIP OF THE CURBED ISLAND, THE LOOP DETECTOR IS TO BE 2'-0" FORWARD OF THE DT CANOPY/SPEAKER CENTER LINE WITH THE LOOP FACING FORWARD AND THE DETECTOR LOOP PERPENDICULAR TO THE SECONDARY DT CANOPY/SPEAKER WHEN POSSIBLE.
  - THE CENTER OF THE SECONDARY MENU BOARD FOUNDATION SHALL BE 5'-9" (5'-6" MIN. AND 6'-0" MAX.) FROM CENTER OF THE DT CANOPY/SPEAKER FOUNDATION WITH THE END CAP OF THE SECONDARY MENU BOARD 15" PREFERRED BUT NOT LESS THAN 12" FROM FACE OF CURB.
  - AUGER "McDONALD'S ORDER HERE" DT CANOPY/SPEAKER FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
  - THE SECONDARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° FROM A VEHICLE POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.
  - "ANY LANE, ANY TIME" BOLLARD SIGN MUST BE A MIN. OF 1'-6" FROM FACE OF CURB AT THE BEGINNING OF THE LANDSCAPE ISLAND. BOLLARD SIGN IS TO BE ORIENTED AT AN ANGLE OF 90° FROM THE CURB.
- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 DETECTOR LOOP:**
  - DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING WINDOW AT THE CASH AND PRESENTER BOOTHS.

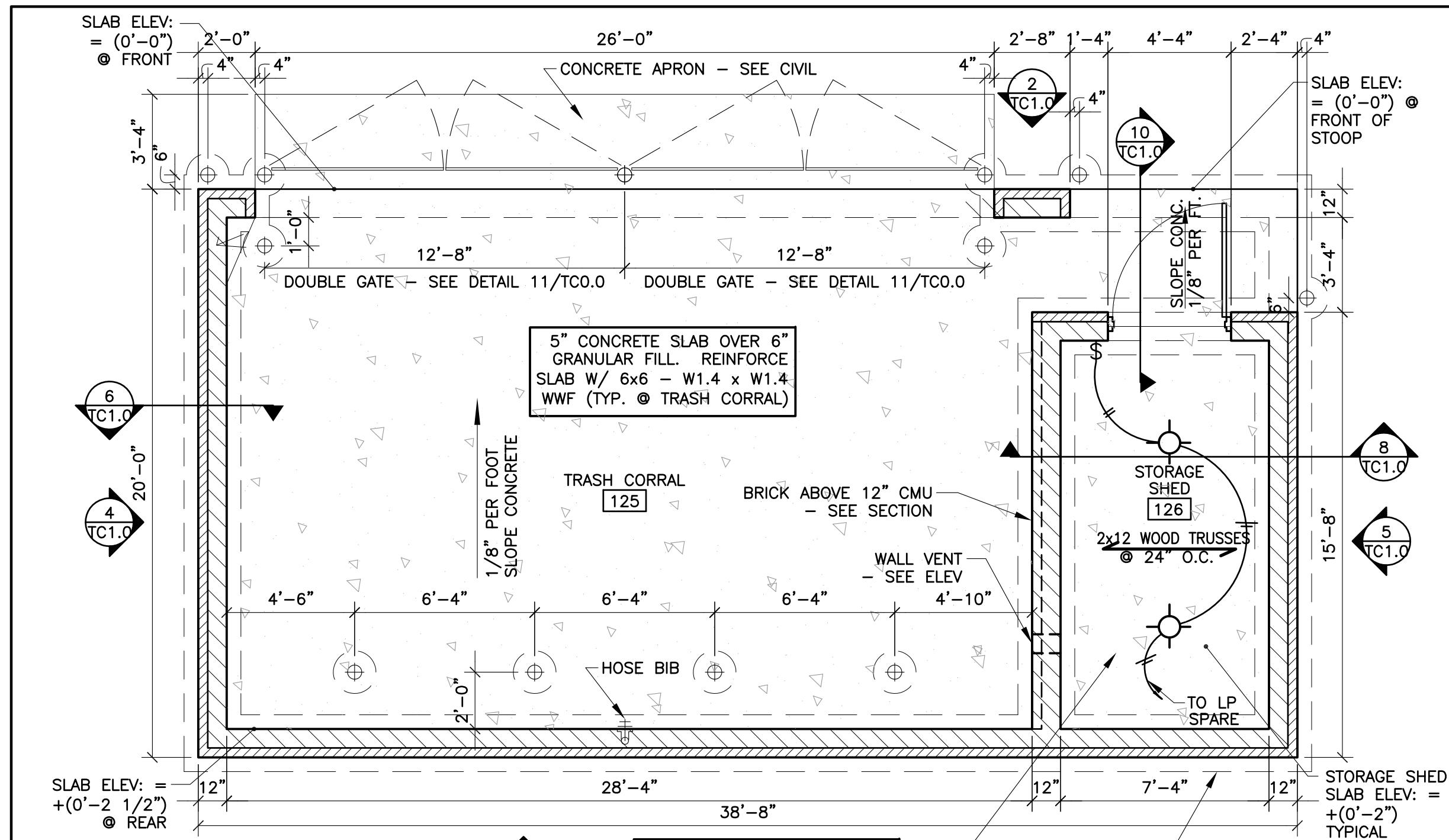
#### SIDE BY SIDE DRIVE-THRU STANDARD 1.0 FEATURES:

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT:**
  - PRE-BROWSE BOARD MUST BE 18"-24" FROM FACE OF CURB. THE DISTANCE AS MEASURED ALONG THE FACE OF CURB. THIS IS MEASURED FROM THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE (APPROXIMATELY 50°) OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER.
  - PRE-BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB. THE DISTANCE AS MEASURED ALONG FACE OF CURB. THIS IS MEASURED FROM THE POINT PERPENDICULAR TO THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE POINT PERPENDICULAR TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER (PREFERRED 35°).

#### GENERAL NOTES

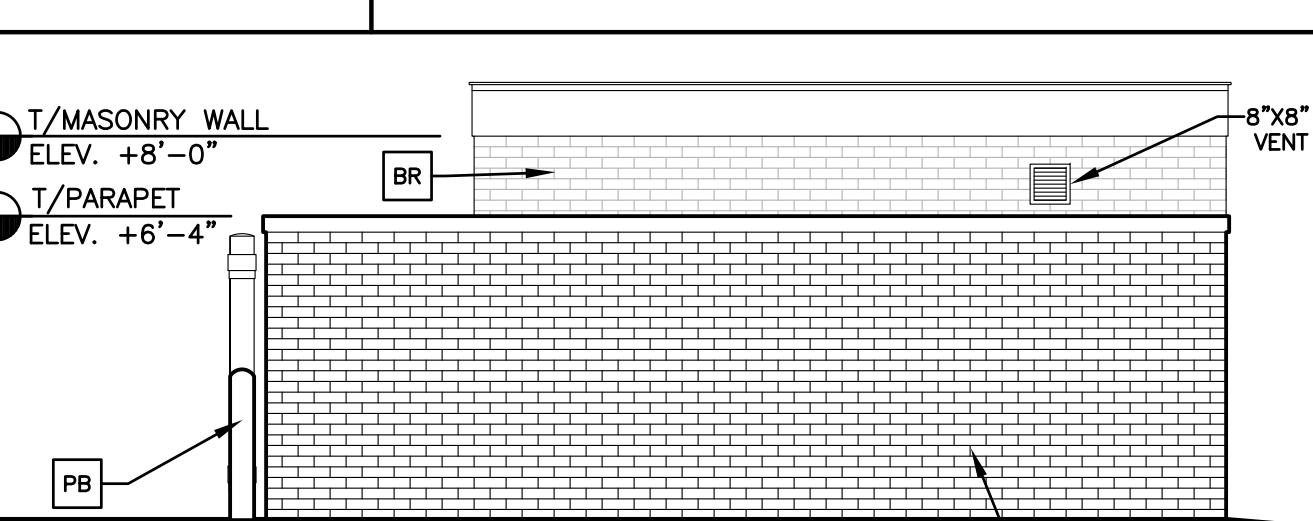
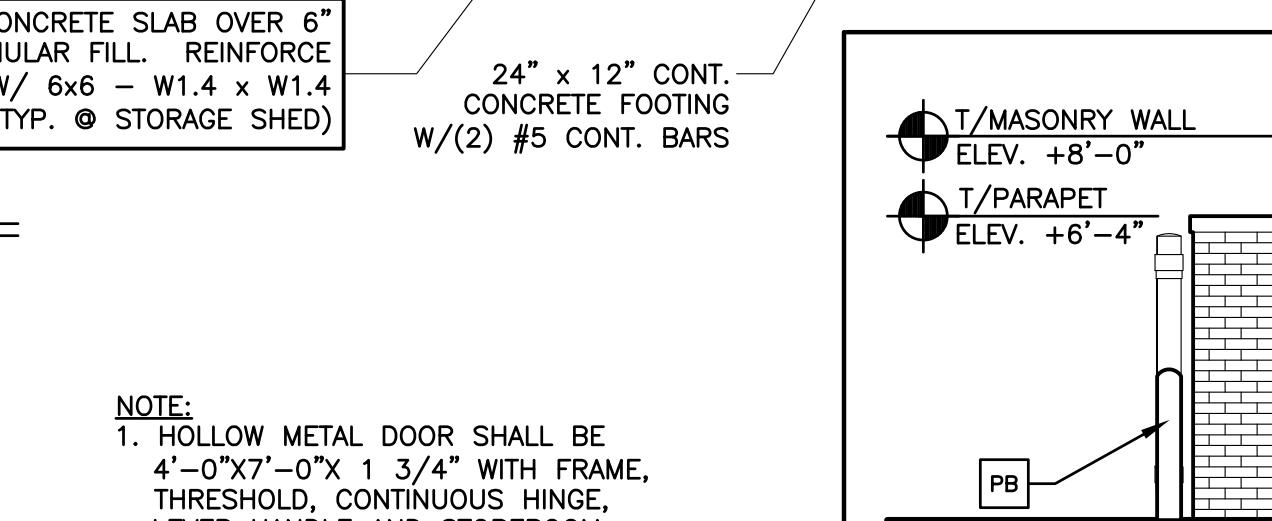
- DRIVE-THRU ELEMENTS:**  
DT CANOPY/SPEAKER DRIVE-THRU PYLON/CLEARANCE POLE AND BOLLARD SIGN SHALL BE CONSISTENT WITH THE STANDARD BUILDING DESIGN DRIVE-THRU ELEMENTS.  
OTHER DESIGNS MAY NOT BE USED.
- CONTRACTOR SHALL COORDINATE WITH APPLICABLE PLANS, McDONALD'S AREA CONSTRUCTION MANAGER, CONTENT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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------|
| PREPARED BY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   | McDonald's USA, LLC |
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| DRAWN BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | STD ISSUE DATE                    | REVIEWED BY         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2019-11                           | RH                  |
| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DATE ISSUED                       |                     |
| 2019 STANDARD BUILDING - BB20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 11 15 2019                        |                     |
| 4597-WOOD/WOOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |                     |
| WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & GI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                     |
| ELTS/BATTEN/STEEL PANEL/BRICK EXTERIOR FINISH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                     |
| SITE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SITE ADDRESS                      |                     |
| 015-0071.00.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 605 South 7th St, Kansas City, KS |                     |
| SHEET NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 015-0071.00.00                    | BY                  |
| DT1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |                     |
| DRIVE-THRU DETAILS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                     |

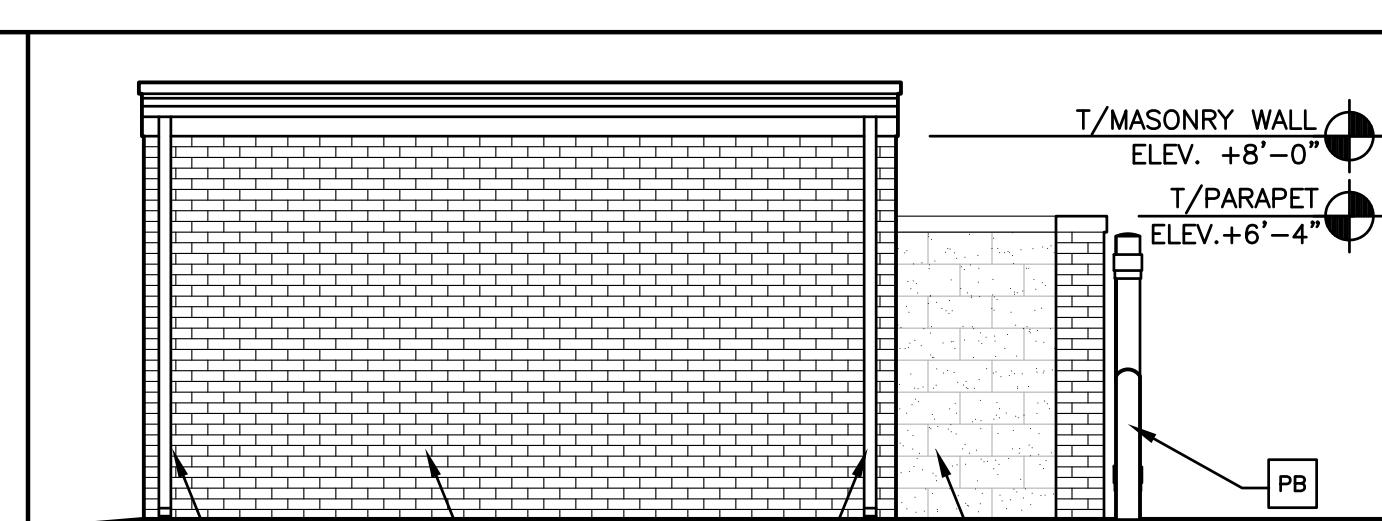


**TRASH CORRAL PLAN W/ SHED**

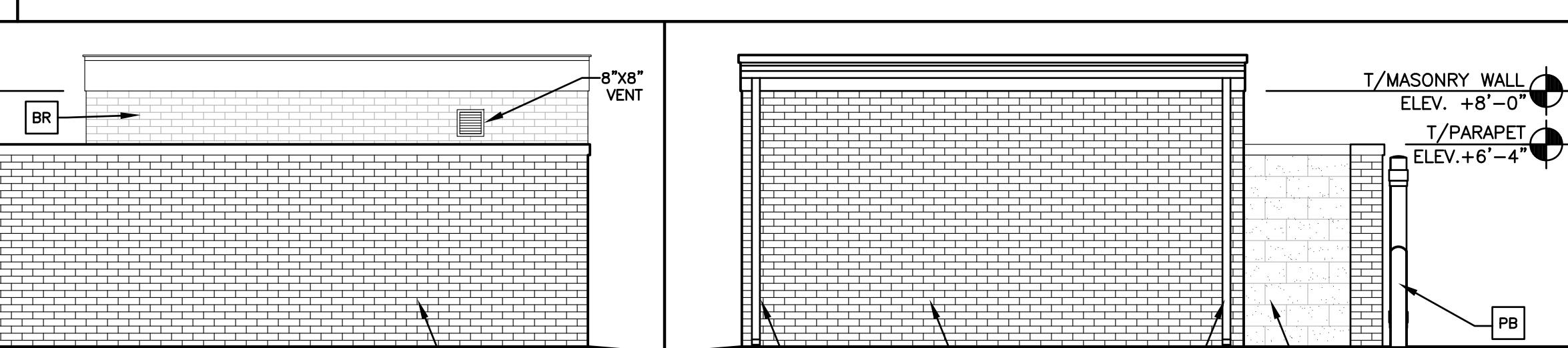
**NOTE:**  
1. HOLLOW METAL DOOR SHALL BE 4' 0" x 7' 0" x 1 3/4" WITH FRAME, THRESHOLD, CONTINUOUS SINGE, LEVER HANDLE AND STOREROOM LOCKSET.  
2. INCANDESCENT LIGHT FIXTURE SHALL BE FURNISHED, WIRE GUARD, 40 WATT LAMP, AND SURFACE MOUNT, PASS & SEMORE-#44 OR LIGHTING LTD #1742-2000 AWG



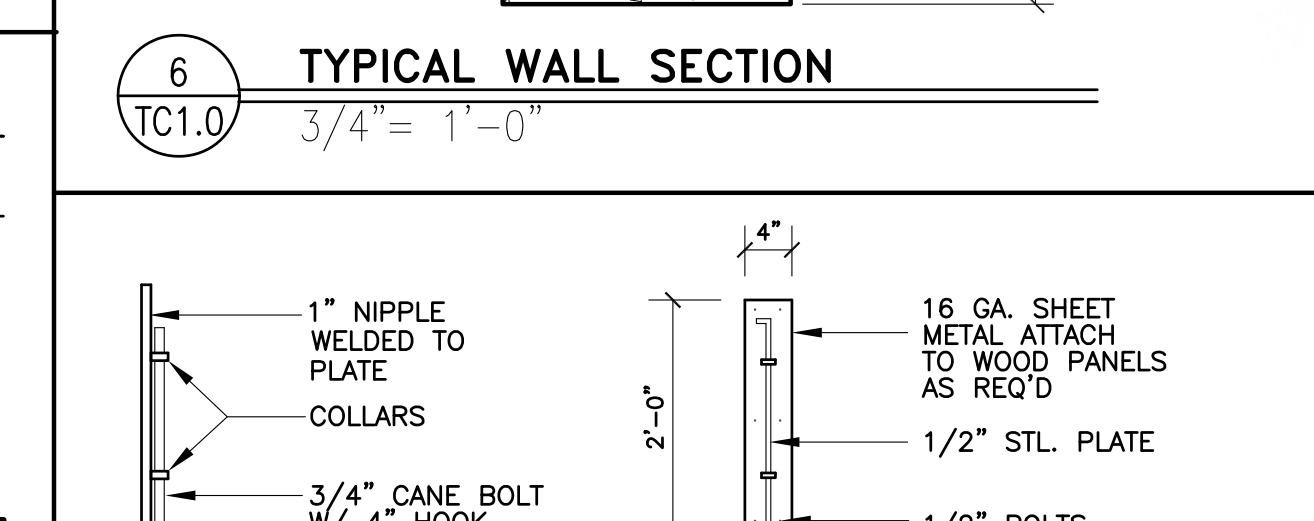
**LEFT SIDE ELEVATION**



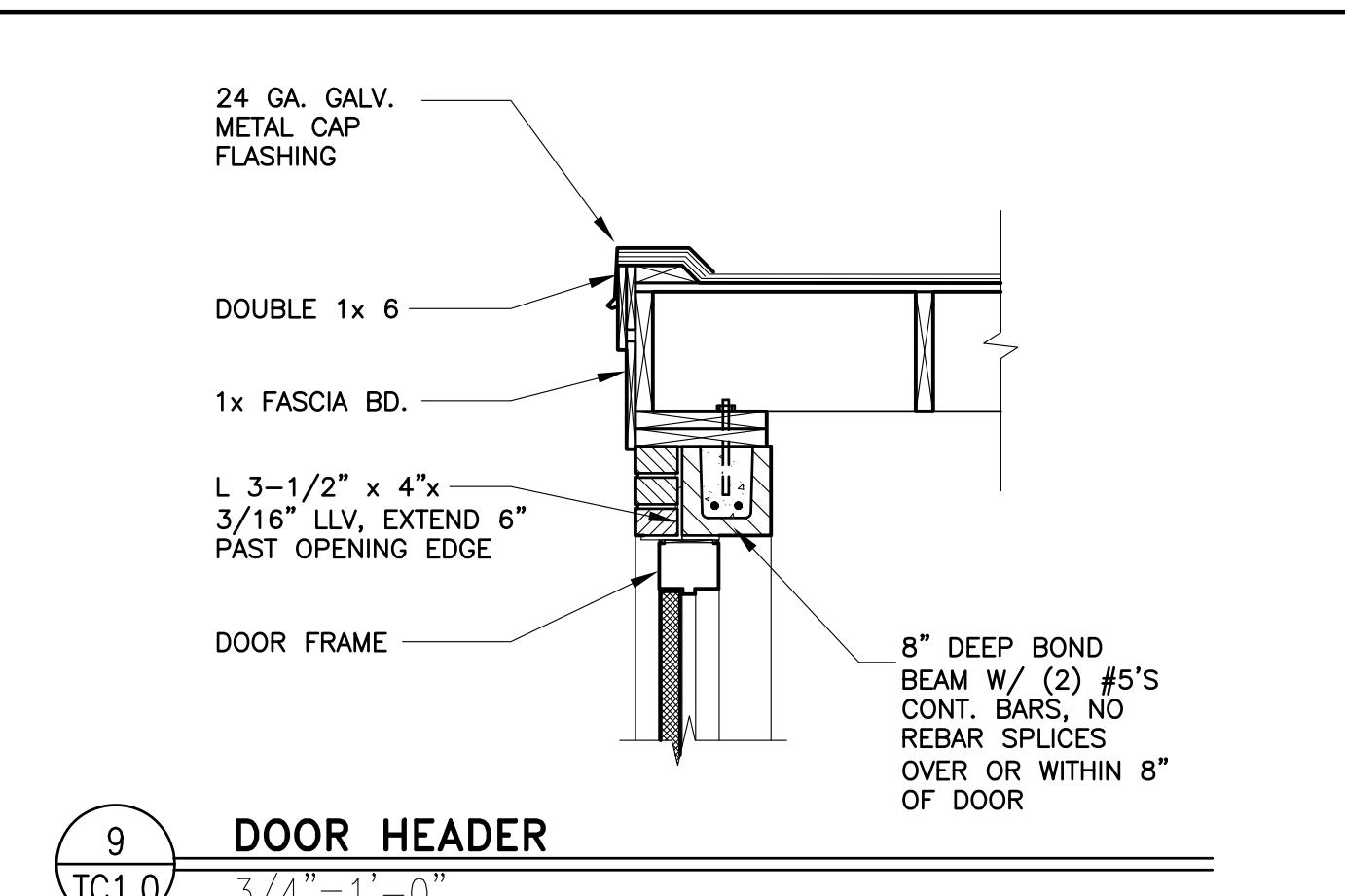
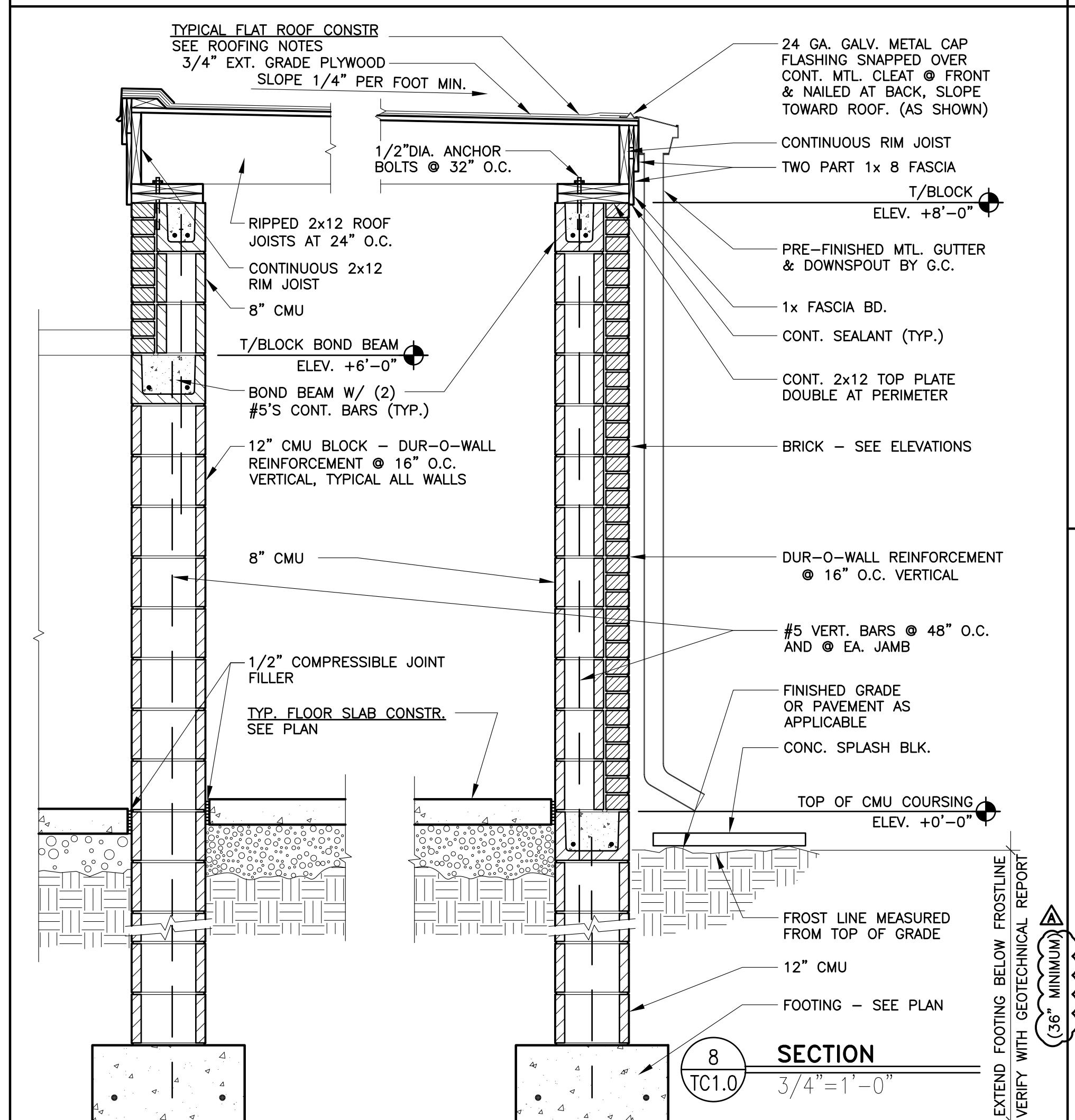
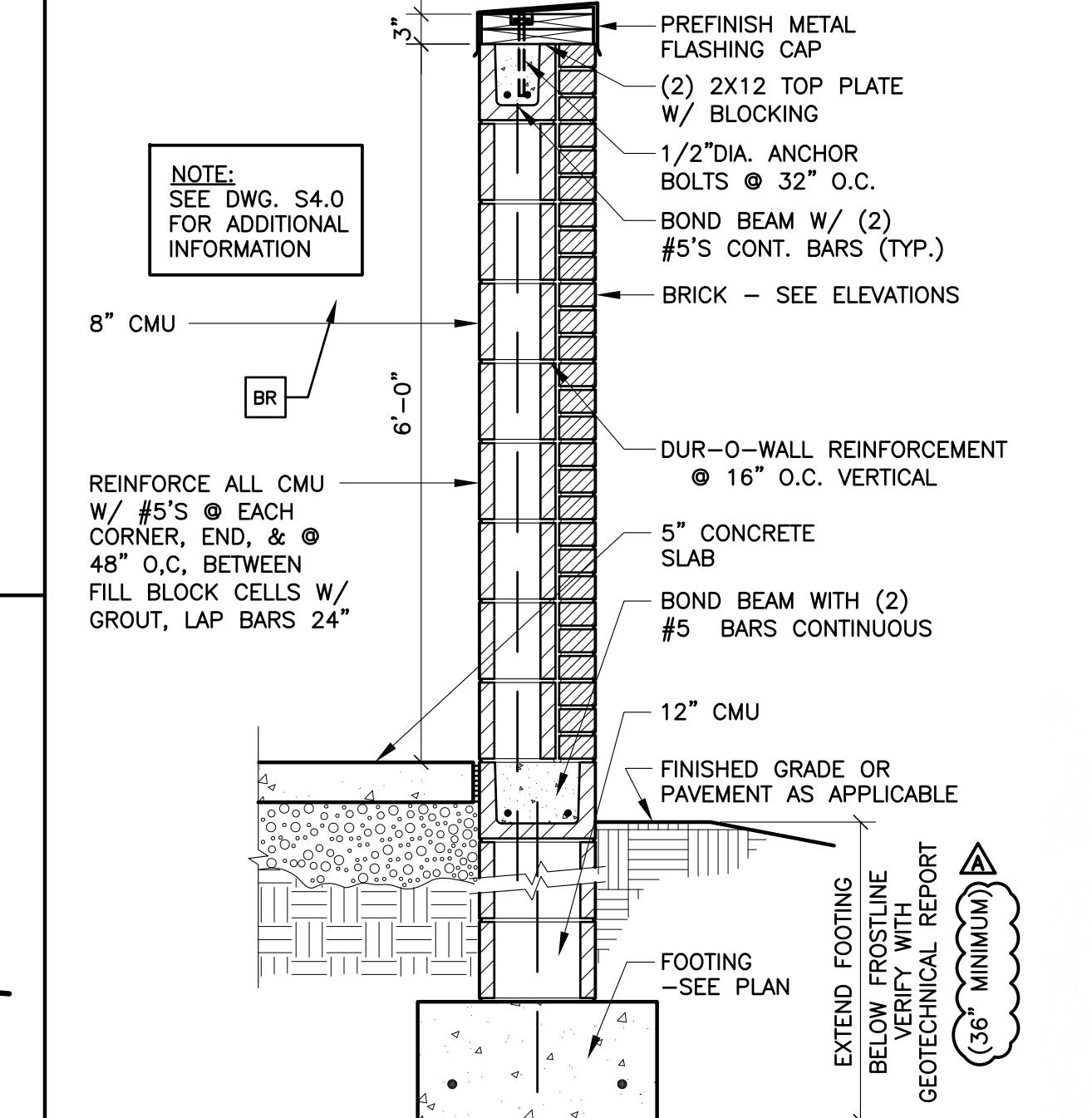
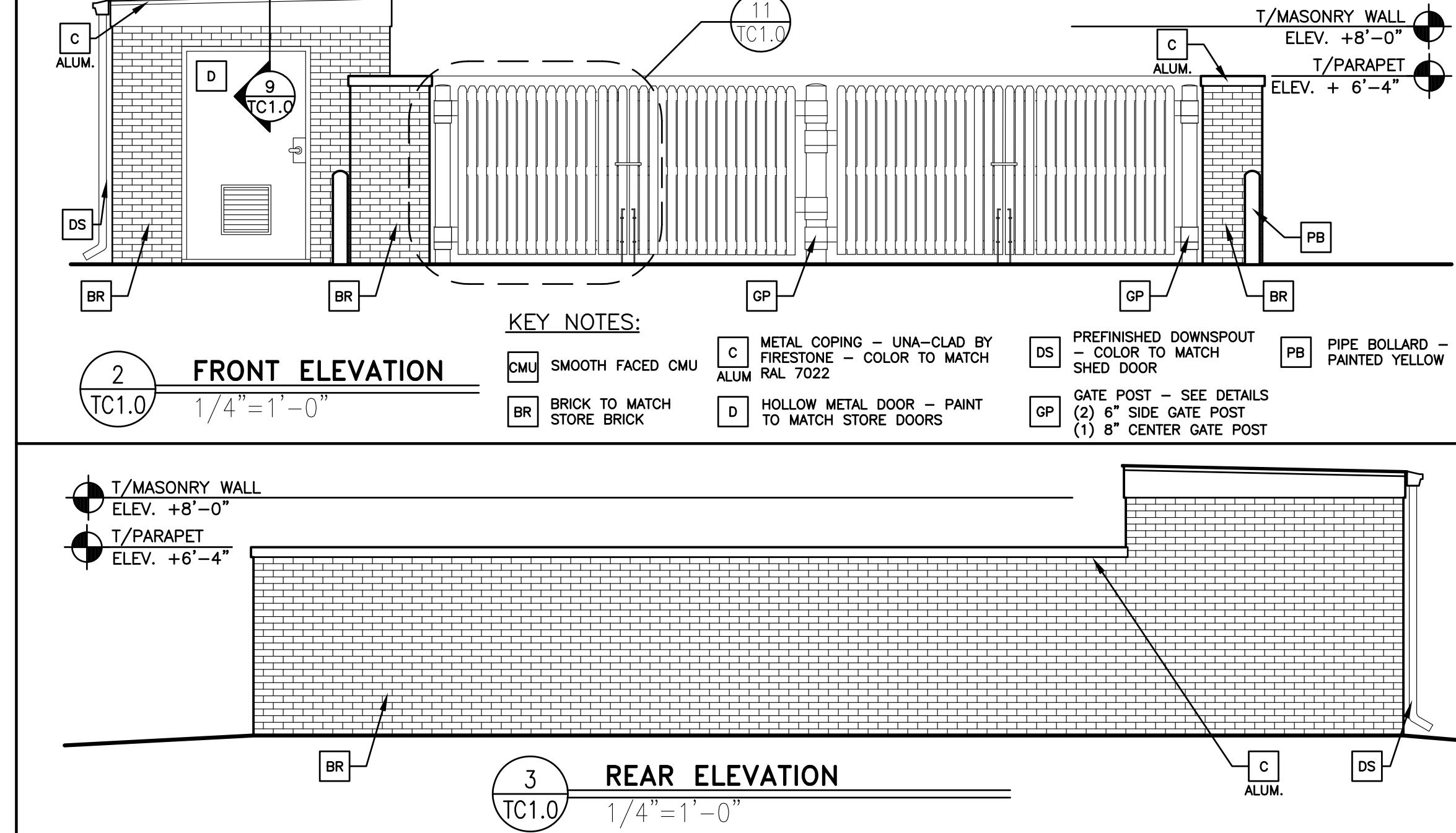
**RIGHT SIDE ELEVATION**



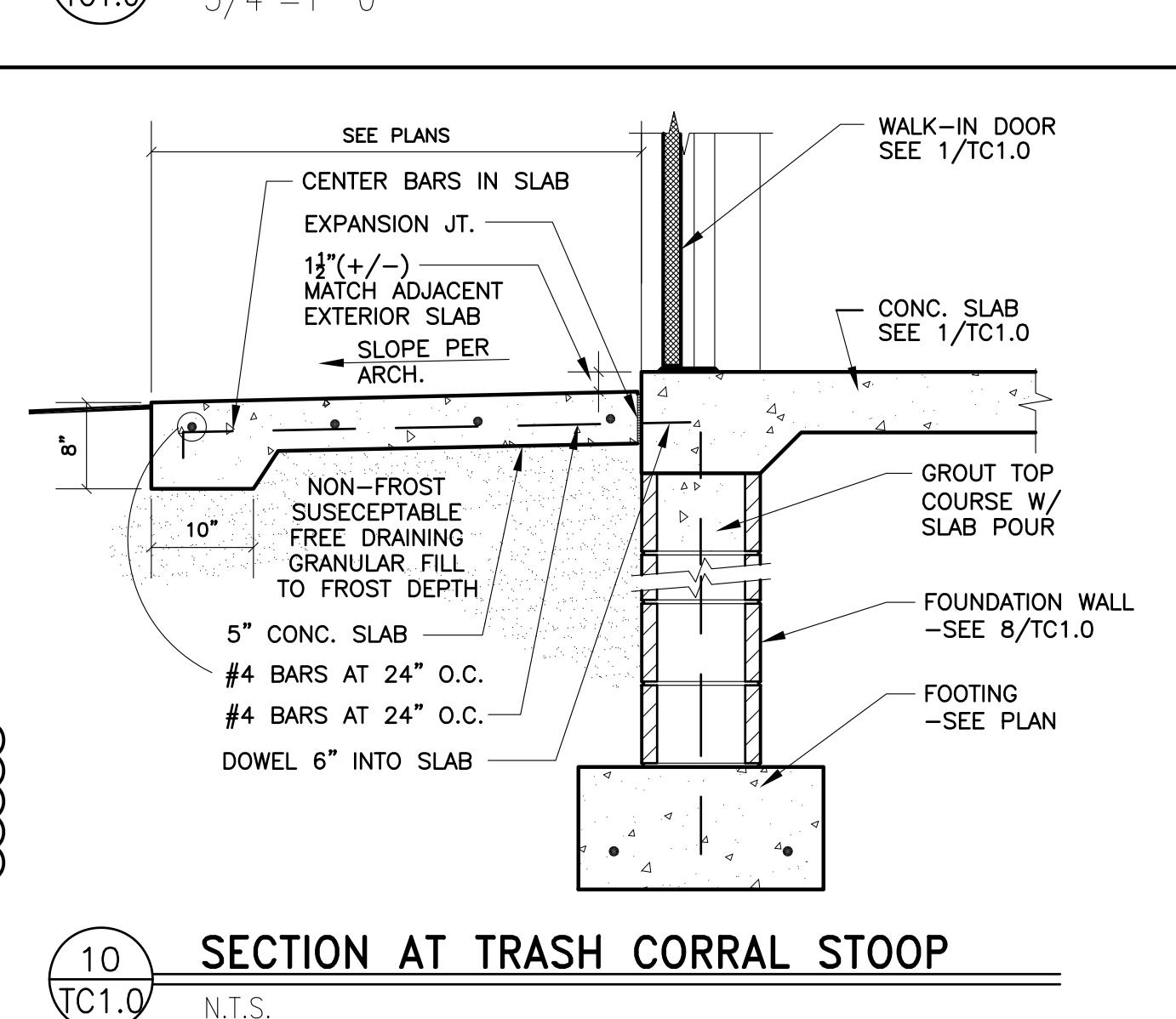
**FRONT ELEVATION**



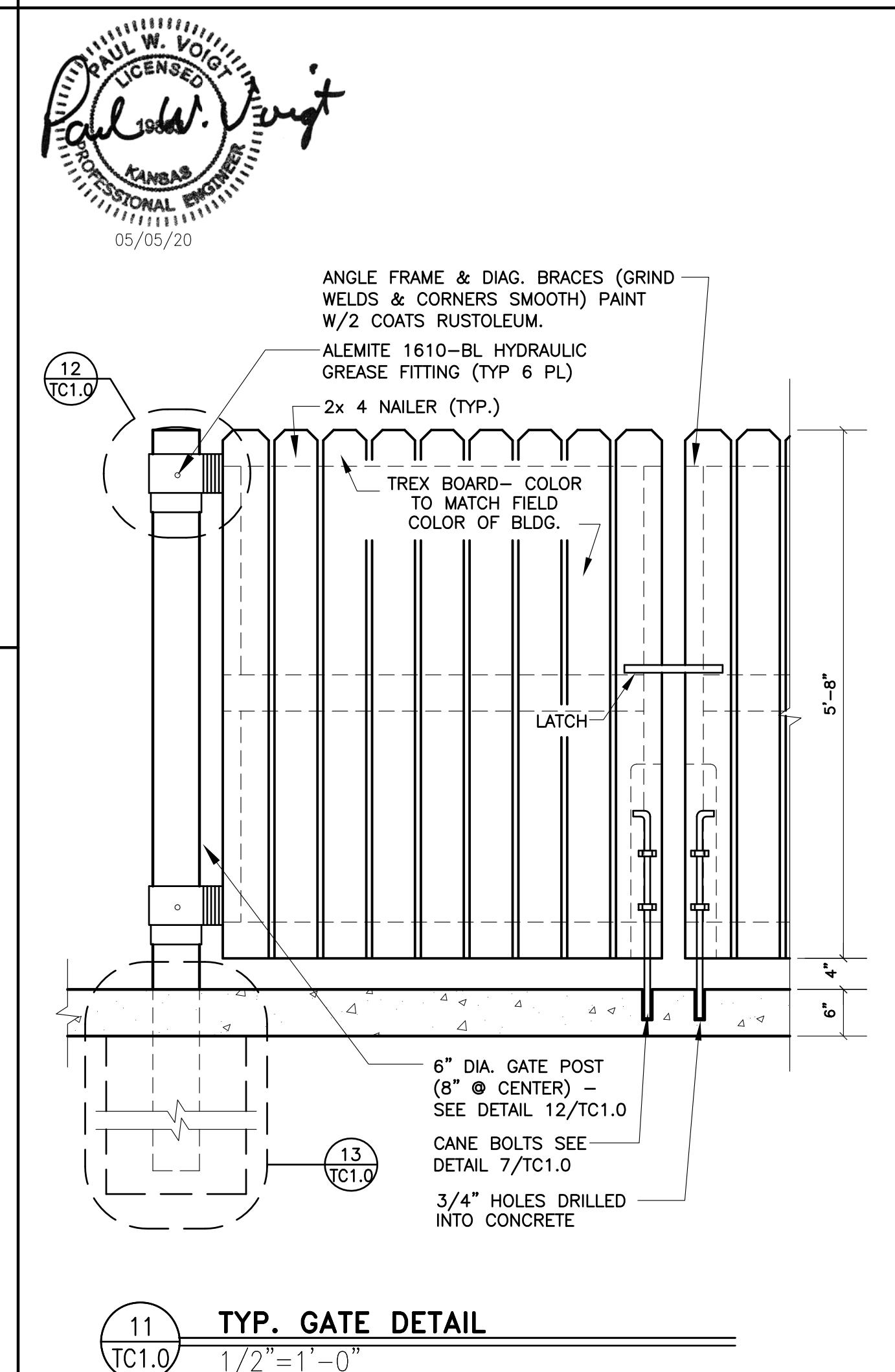
**REAR ELEVATION**



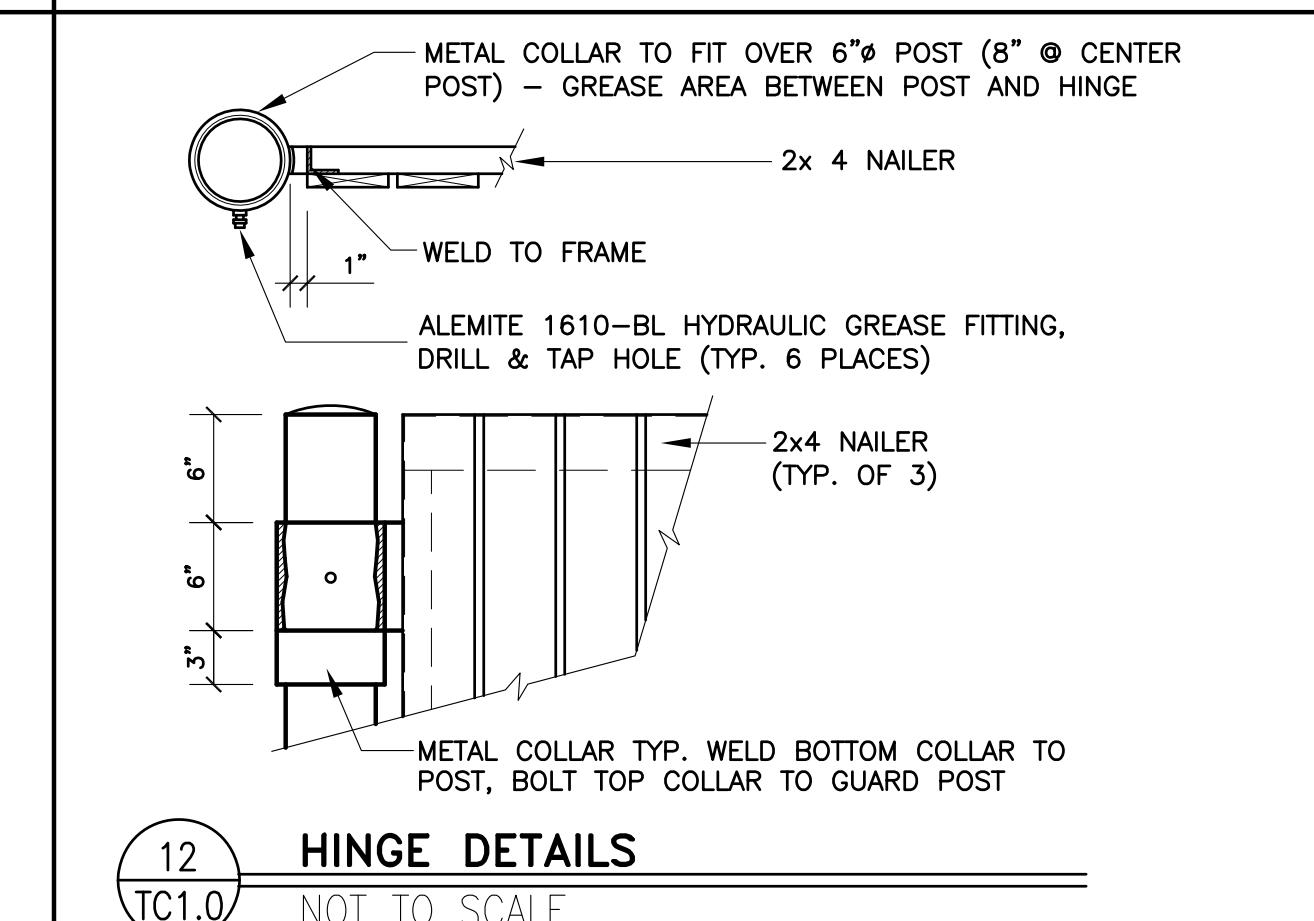
**DOOR HEADER**



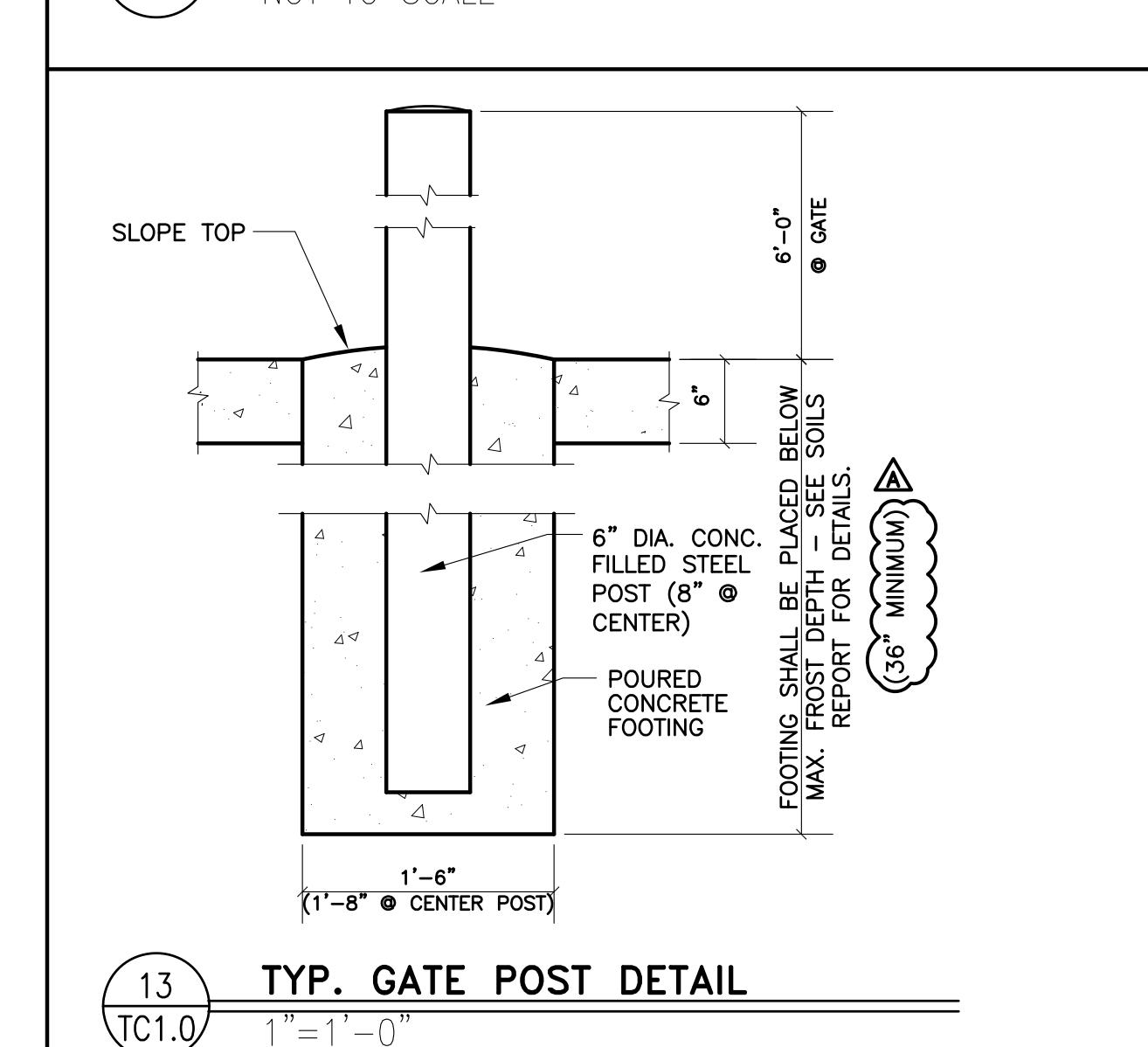
**SECTION AT TRASH CORRAL STOOP**



**TYP. GATE DETAIL**



**HINGE DETAILS**



**TYP. GATE POST DETAIL**

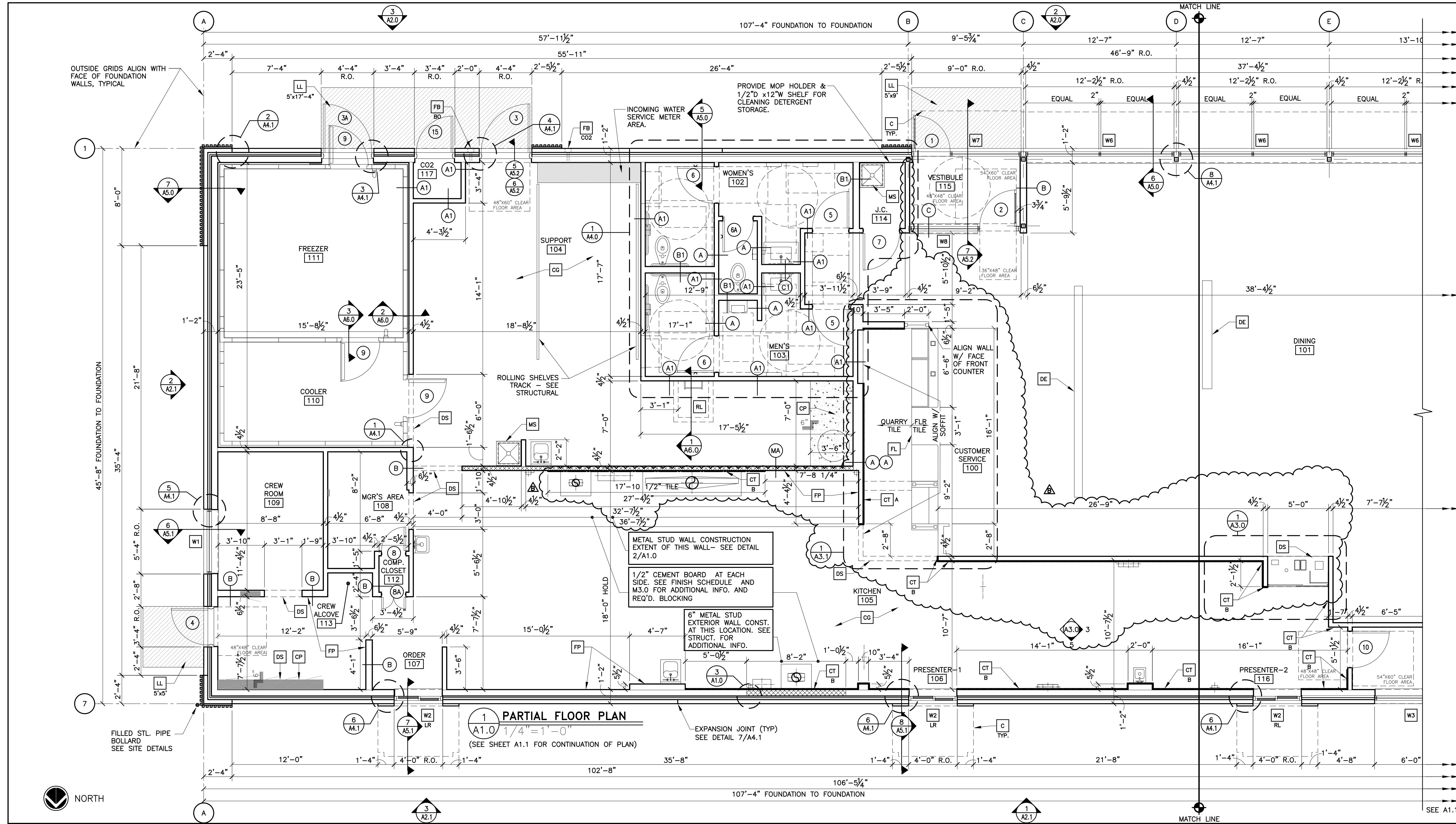
| SHEET NO.     | TITLE                         | DRAWN BY | REV'D BY | DATE ISSUED | DATE REV'D | DESCRIPTION                                                                                                                                  | BY |
|---------------|-------------------------------|----------|----------|-------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|----|
| 015-0071.00.A | 2019 STANDARD BUILDING - BB20 | KO       | KO       | 2019-11     |            | WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH        |    |
| 015-0071.00.A | 459-F10-WOOD/WOOD             |          |          | 01/23/20    |            |                                                                                                                                              |    |
| 015-0071.00.A | TC1.0                         |          |          | 01/13/20    |            | USED PROGRESS SET REVIEW                                                                                                                     |    |
|               |                               |          |          |             |            | EXTEND FOOTING<br>FOOTING - SEE PLAN<br>FOOTING SHALL BE PLACED BELOW MAX. FROST DEPTH - SEE SOILS<br>(1'-8" @ CENTER POST)<br>(36" MINIMUM) |    |

I hereby certify that the above specification or report was prepared under my direction and supervision and is my direct responsibility. I am registered Architect of the State of Kansas.

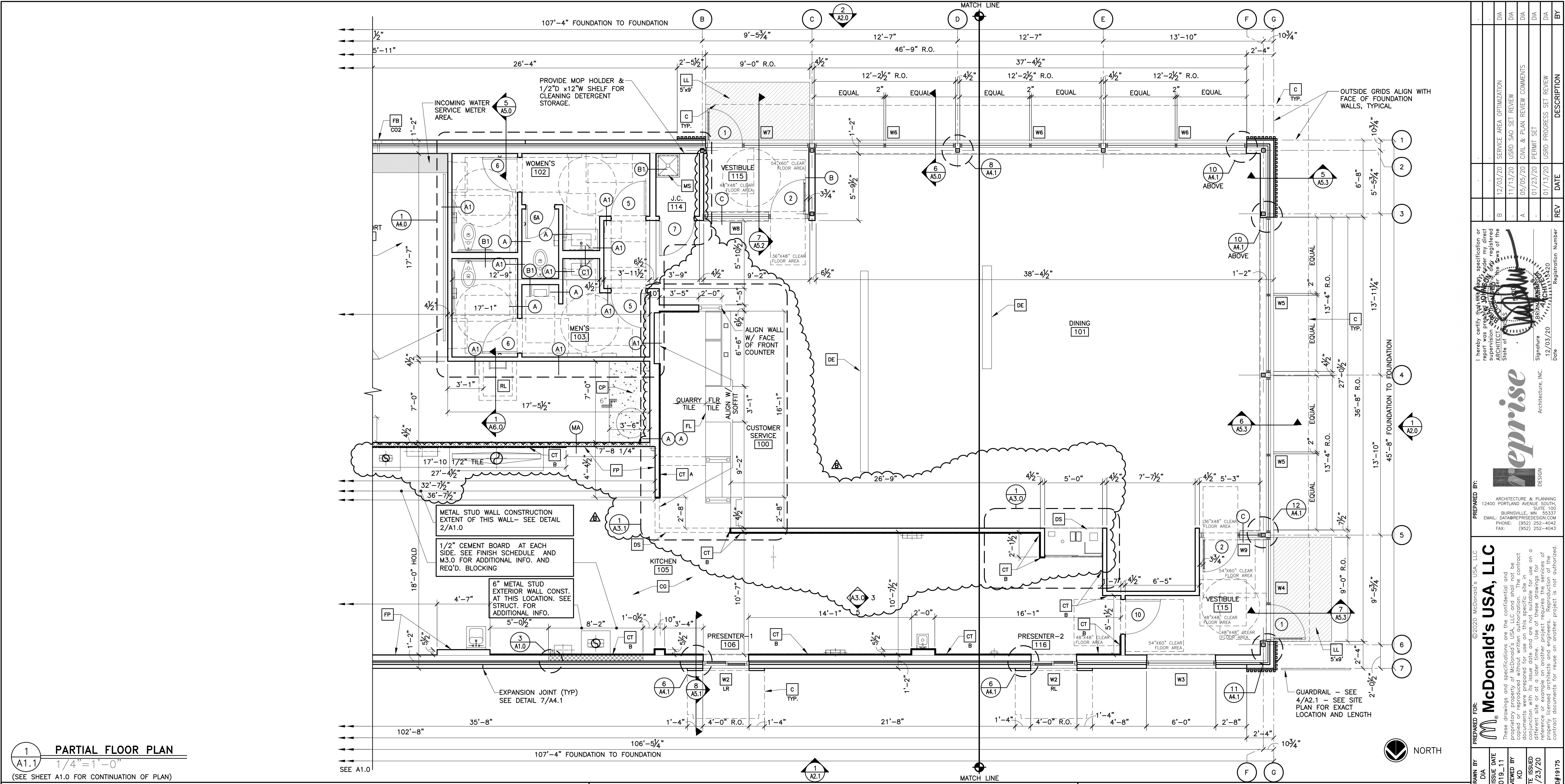
**Signature:** ERIN ARCHITECTURE, INC.  
**Date:** 05/05/20  
**Registration Number:** 55372

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**McDonald's USA, LLC**  
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| PREPARED BY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                | McDonald's USA, LLC |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------|
| 12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, BURNSVILLE, MN 55337<br>EMAIL: DATA@REPRISEDISET.COM<br>PHONE: (952) 252-4042<br>FAX: (952) 252-4043                                                                                                                                                                                                                                                                                                                                                                                                  | DESIGN                                                                                                                                                                                         | 12/03/20            | SERVICE AREA OPTIMIZATION   |
| A 05/05/20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CIVIL & PLAN REVIEW COMMENTS                                                                                                                                                                   | B 11/15/20          | USD SDOT SET REVIEW         |
| 01/23/20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PERMIT SET                                                                                                                                                                                     | 01/13/20            | USD PROGRESS SET REVIEW     |
| 12/03/20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Signature<br>Barbara K. Johnson, AIA, LEED AP<br>Architect, Inc.                                                                                                                               | 12/03/20            | Registration Number<br>Date |
| PREPARED FOR:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | McDonald's USA, LLC                                                                                                                                                                            | REV. DATE           | BY                          |
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| DRAWN BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DIA                                                                                                                                                                                            | STD ISSUE DATE      |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                | 2019-11             |                             |
| REVIEWED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | KO                                                                                                                                                                                             | DATE ISSUED         | 01/23/20                    |
| SHEET NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2019 STANDARD BUILDING - BB20                                                                                                                                                                  | TITLE               | 015-0071.00.B               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4-59-F10-WOOD/WOOD                                                                                                                                                                             |                     | A1.0                        |
| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/AUPOVIC PANEL/BRICK EXT. FINISH<br>SITE ADDRESS<br>605 SOUTH 7TH STREET, KANSAS CITY, KS |                     | FLOOR PLAN                  |



**reprise**  
Architecture, INC.  
DESIGN

Signature  
J. Brian Abshire, AIA  
12/03/20  
Registration Number  
Date

11/15/20

12/03/20

CIVIL & PLAN REVIEW COMMENTS

01/23/20

PERMIT SET

01/13/20

USD PROGRESS SET REVIEW

BY

1/4/20

12/03/20

SERVICE AREA OPTIMIZATION

DA

11/15/20

USD SAO SET REVIEW

DA

01/23/20

PERMIT SET

01/13/20

USD PROGRESS SET REVIEW

BY

1/4/20

12/03/20

CIVIL & PLAN REVIEW COMMENTS

DA

01/23/20

PERMIT SET

01/13/20

USD PROGRESS SET REVIEW

BY

1/4/20

12/03/20

SERVICE AREA OPTIMIZATION

DA

11/15/20

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01/23/20

PERMIT SET

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USD PROGRESS SET REVIEW

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1/4/20

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SERVICE AREA OPTIMIZATION

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01/23/20

PERMIT SET

01/13/20

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CIVIL & PLAN REVIEW COMMENTS

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DA

01/23/20

PERMIT SET

01/13/20

USD PROGRESS SET REVIEW

BY

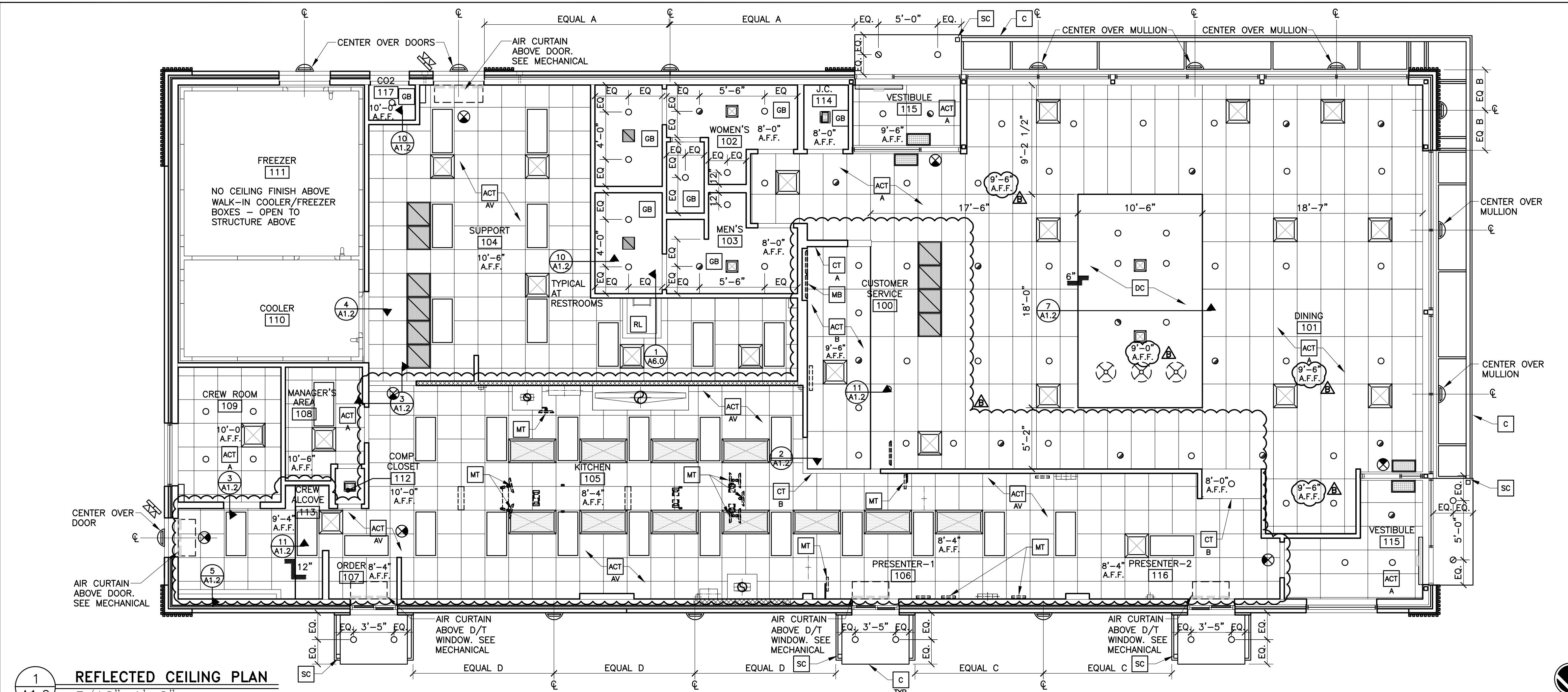
1/4/20

12/03/20

SERVICE AREA OPTIMIZATION

DA

11



REFLECTED CEILING PLAN

A1.2 3/16" = 1'-0"

| KEY NOTES |                                                                                                                                                                            |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACT A     | ACOUSTICAL CEILING TILE - 24"x48". VERIFY FINISHES WITH DECOR COMPANY                                                                                                      |
| ACT AV    | ACOUSTICAL CEILING TILE: VINYL FACED USG 24"x24" CLEAN ROOM CLIMA-PLUS. UNPERFORATED. SMOOTH TEXTURE COLOR: WHITE GRID: USG 15/16" DX/DXL COLOR: WHITE                     |
| ACT B     | ACOUSTICAL CEILING TILE: USG 24"x48" PREMIER HI-LITE CLIMAPLUS KAPOK PANELS. COLOR: FLAT BLACK 205 GRID: USG 15/16" DX/DXL COLOR: BLACK                                    |
| C         | ALUMINUM CANOPY WITH INTEGRAL GUTTER AND SCUPPER - SEE 4/A5.0 FOR NOTES - SEE ROOF PLAN FOR DIMENSIONS - SEE ELEVATION FOR COLOR AND FASCIA LOCATIONS                      |
| CT A      | WALL TILE: CERAMIC TILE SIZE: 4"x12", PATTERN: STACK BOND GROUT: MAPEI ULTRACOLOR PLUS - JOINT TO BE $\frac{1}{8}$ " MAX SEE DECOR DRAWINGS FOR TILE AND GROUT COLOR SPEC. |
| CT B      | WALL TILE: CERAMIC TILE SIZE: 4"x12", PATTERN: STACK BOND GROUT: MAPEI ULTRACOLOR PLUS - JOINT TO BE $\frac{1}{8}$ " MAX SEE DECOR DRAWINGS FOR TILE AND GROUT COLOR SPEC. |
| DC        | SUSPENDED DECORATIVE CEILING TREATMENT - SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION                                                                                     |
| DS        | DROPPED SOFFIT                                                                                                                                                             |
| DC-WH     | BOTTOM TO ALIGN WITH GYP BD AT EXTERIOR WINDOW HEAD MAY BE REPLACED BY ELEMENT BY DECOR SUPPLIER - CONFIRM WITH AREA CONSTRUCTION MANAGER                                  |
| GB        | GYPSUM BOARD CEILING                                                                                                                                                       |
| MB        | MENU BOARD WITH BEZELS BY OTHERS UNDER SEPARATE PERMIT - SEE ELEC PLANS                                                                                                    |
| MT        | CEILING MOUNTED MONITOR: A) VERIFY MONITOR LOCATIONS WITH MCDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION. B) SEE DETAIL 6/A1.2 FOR INSTALLATION METHOD                   |
| RL        | ROOF LADDER OPENING                                                                                                                                                        |
| SC        | INTERGRAL GUTTER SCUPPER                                                                                                                                                   |

#### GENERAL NOTES

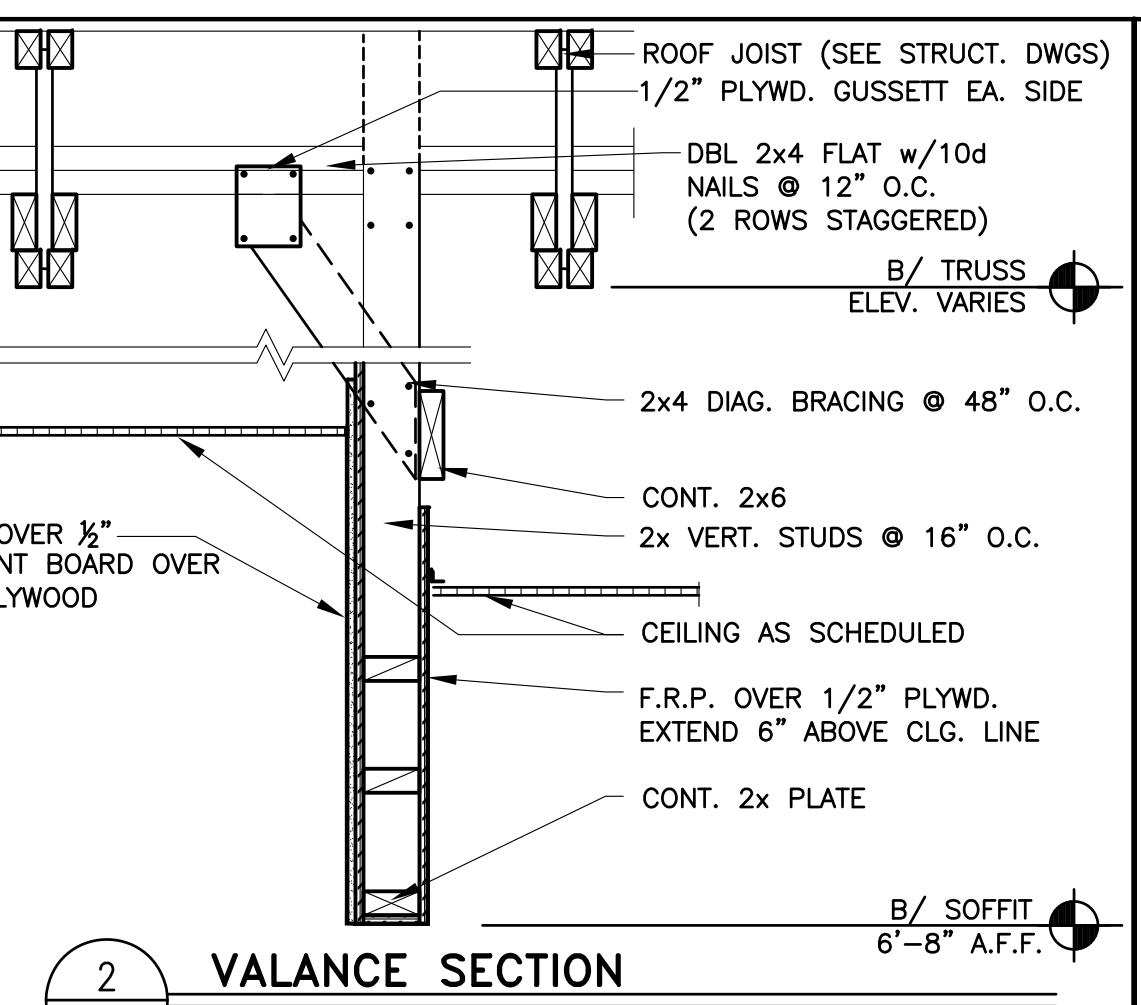
- SEE SHT A6.1 FOR CEILING FINISHES.
- SEE SHT A1.0 FOR MENU BOARD DROPPED SOFFIT LOCATION DIMENSIONS
- GENERAL CONTRACTOR SHALL COORDINATE HVAC DIFFUSER LOCATION WITH DECOR & MECHANICAL PLANS AND REPORT ANY DISCREPANCIES TO ARCHITECT.
- REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR DIFFUSER AND LIGHTING INFORMATION.
- PROVIDE USG V15 CEILING TILE RETENTION CLIPS IN ALL VESTIBULE AREAS

PREPARED BY:  
12400 ARCHITECTURE & PLANNING, SOUTH BURNSVILLE, MN 55337  
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PHONE: (952) 252-4042  
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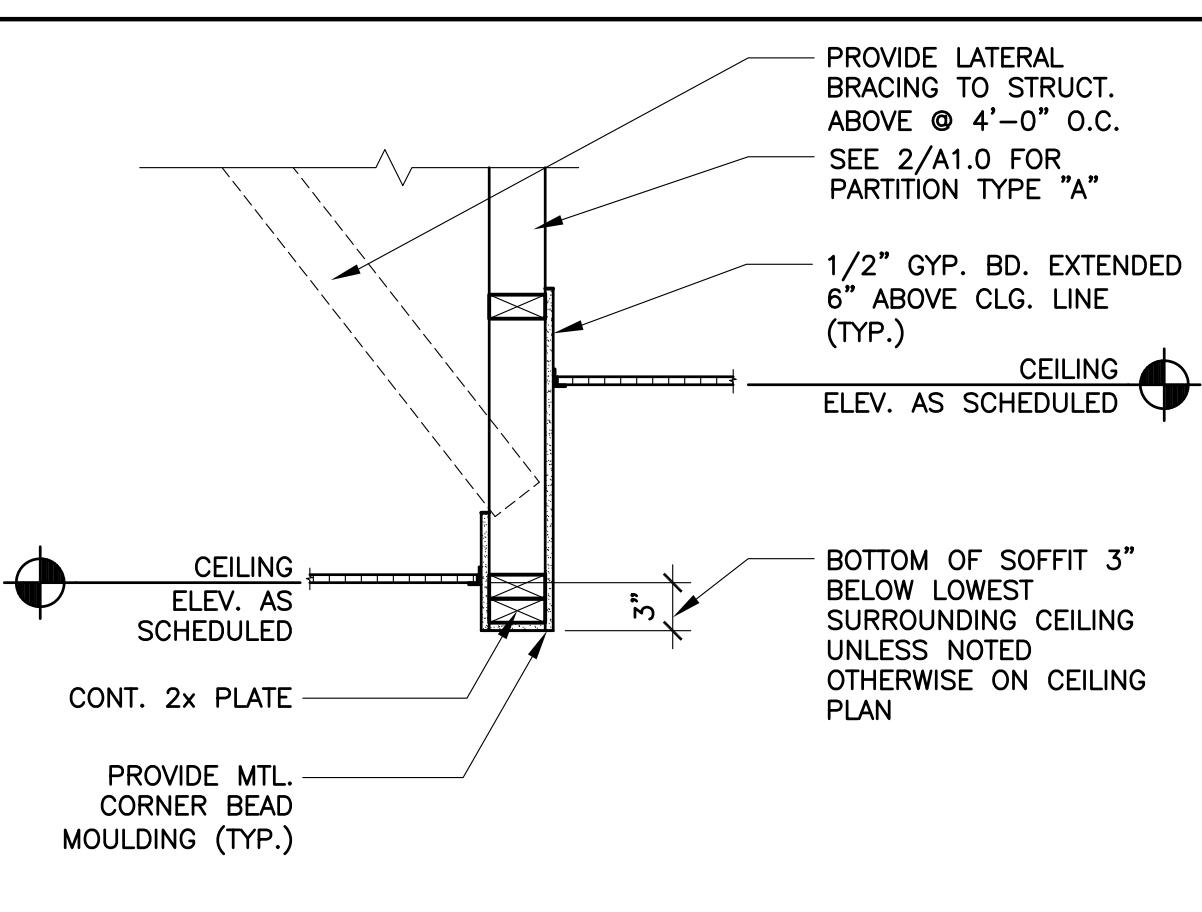
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DRAWN BY: DIA STD ISSUE DATE: 2019-11 REVIEWED BY: KO DATE ISSUED: 01/23/20 RD#19175



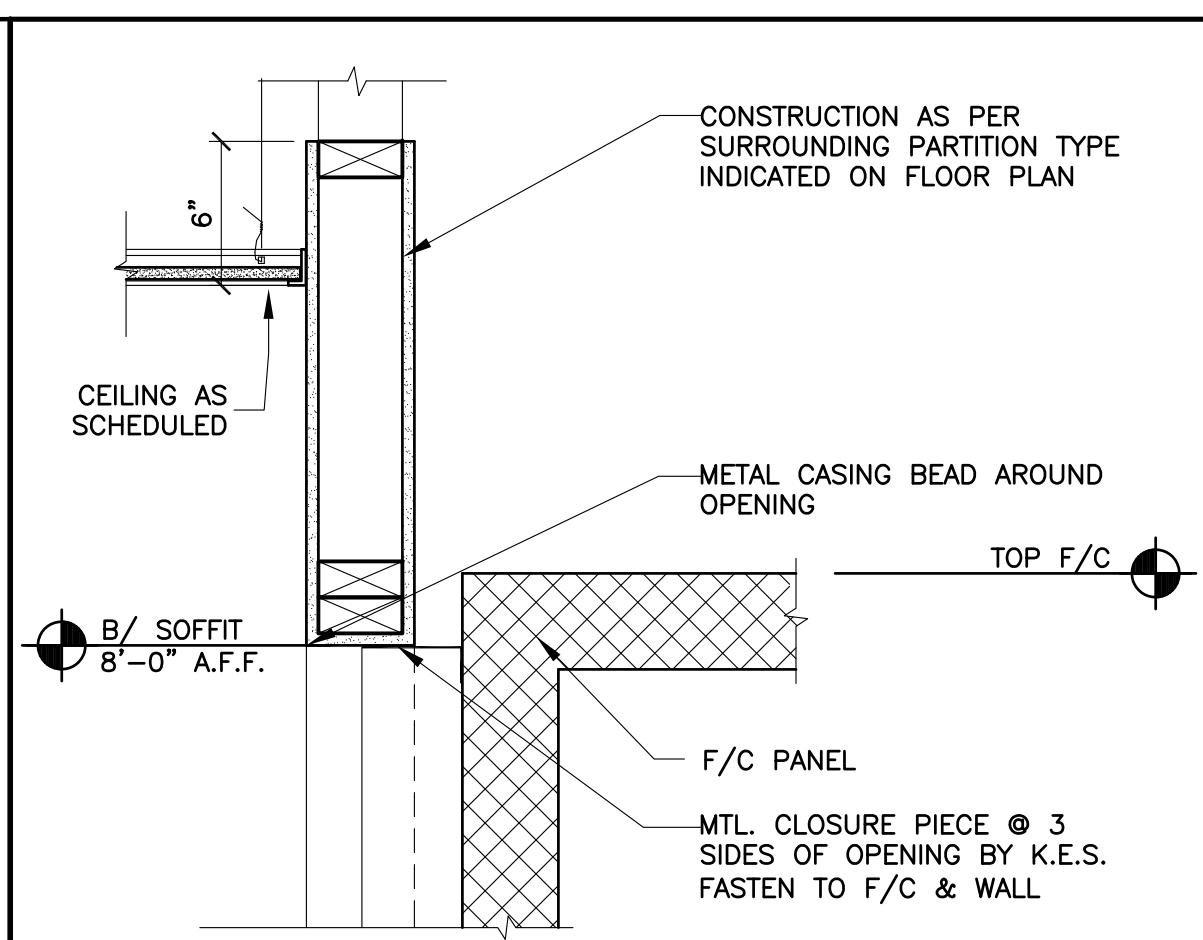
VALANCE SECTION

A1.2 1" = 1'-0"



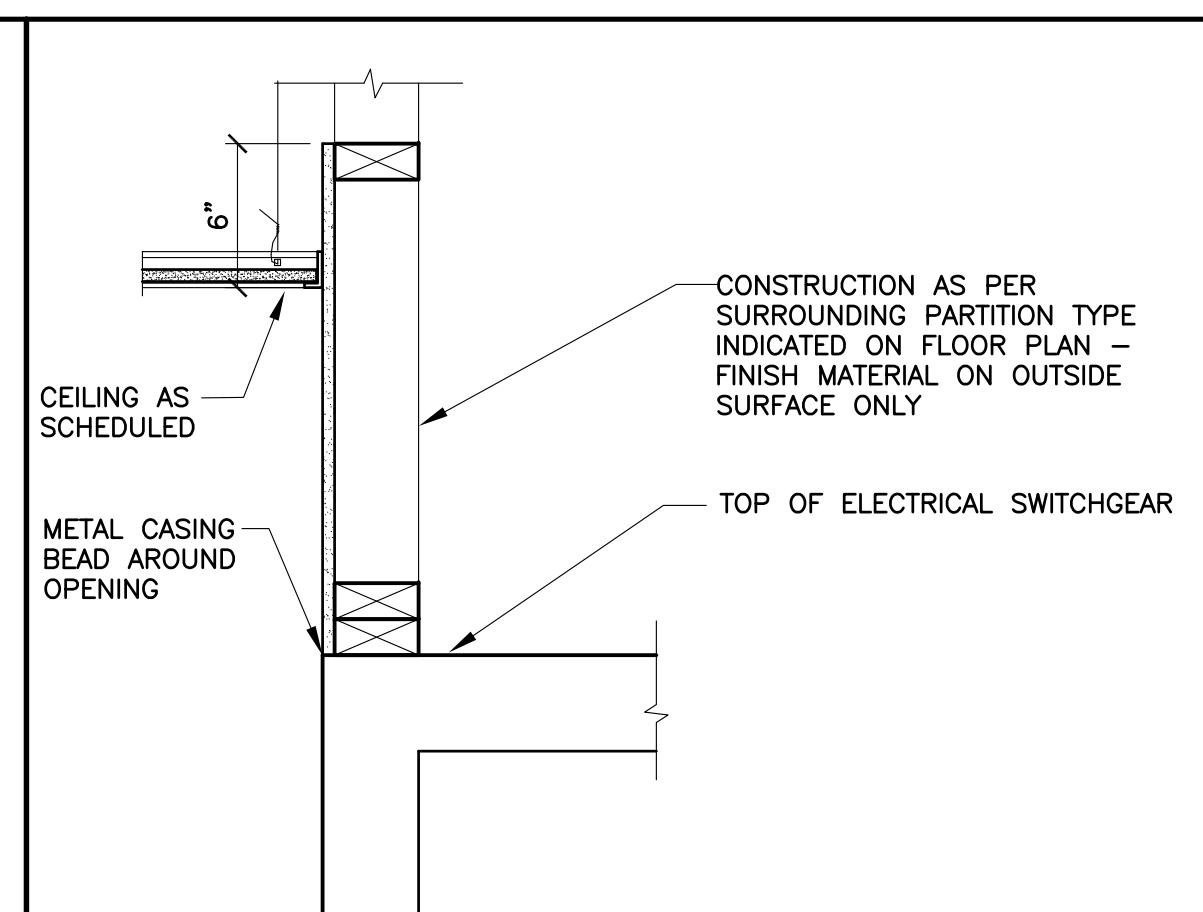
CEILING TRANSITION w/ SOFFIT

A1.2 1" = 1'-0"



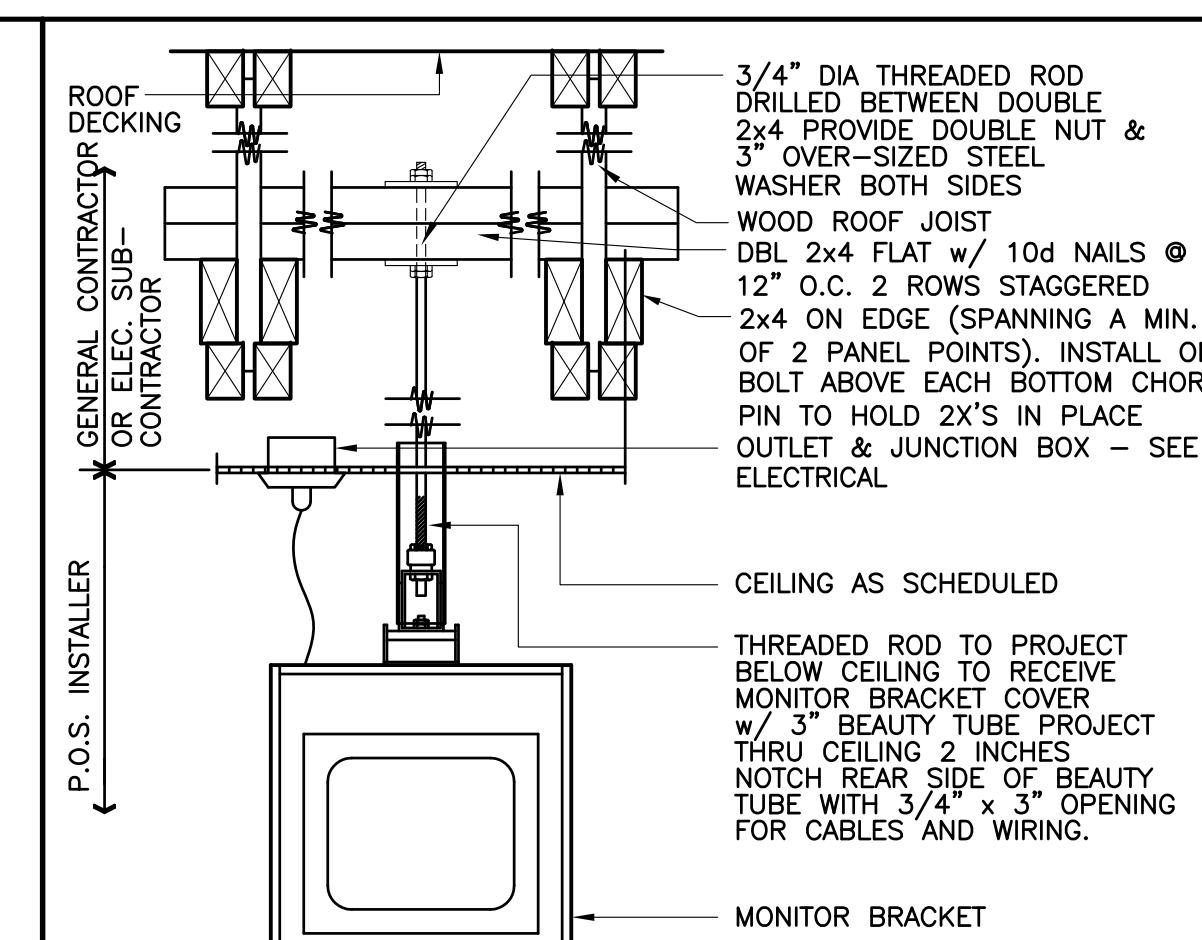
CEILING DETAIL AT COOLER

A1.2 1 1/2" = 1'-0"



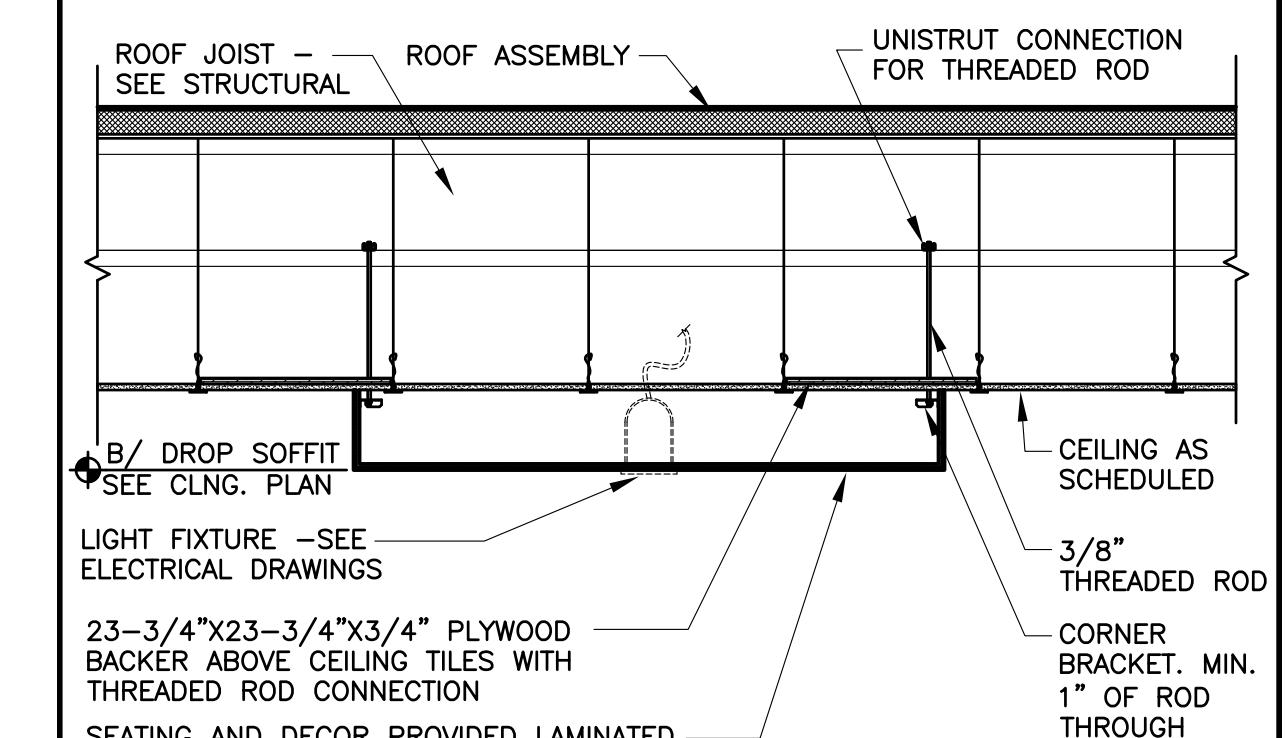
CEILING DETAIL AT SWITCHGEAR

A1.2 1 1/2" = 1'-0"



MONITOR INSTALLATION DETAIL

A1.2 N.T.S.



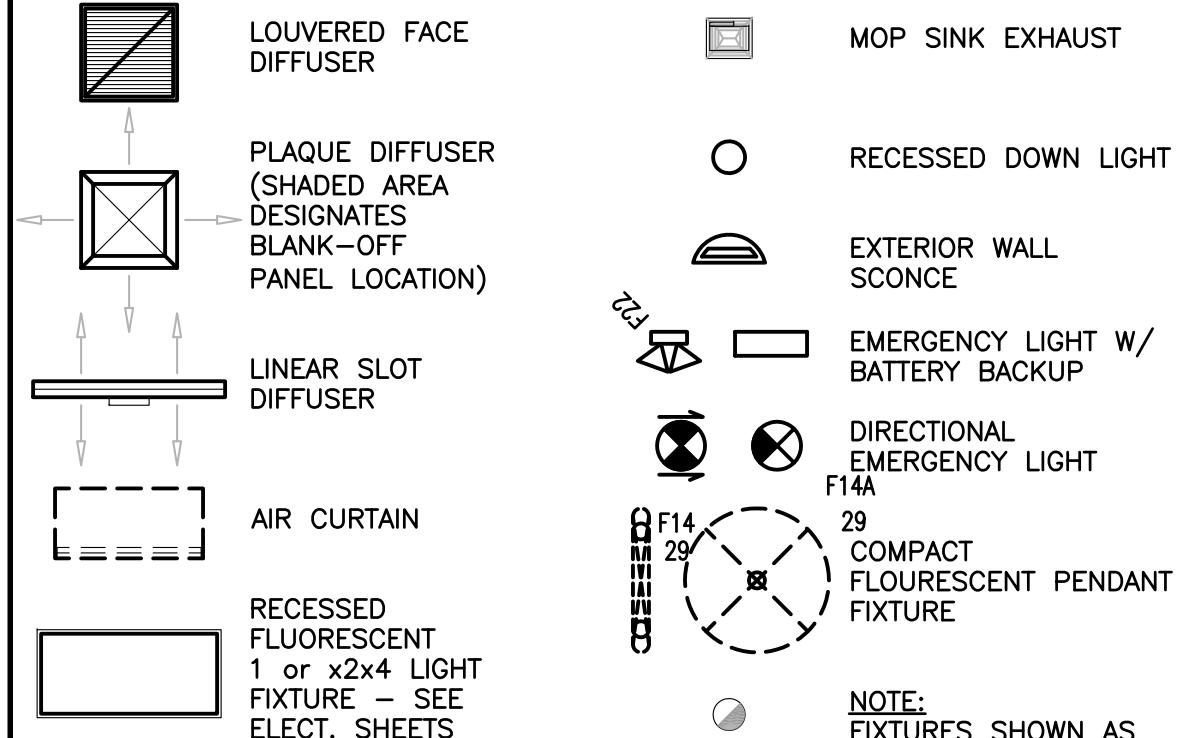
CEILING TRANSITION w/ SOFFIT

A1.2 1/2" = 1'-0" COORDINATE w/ DECOR



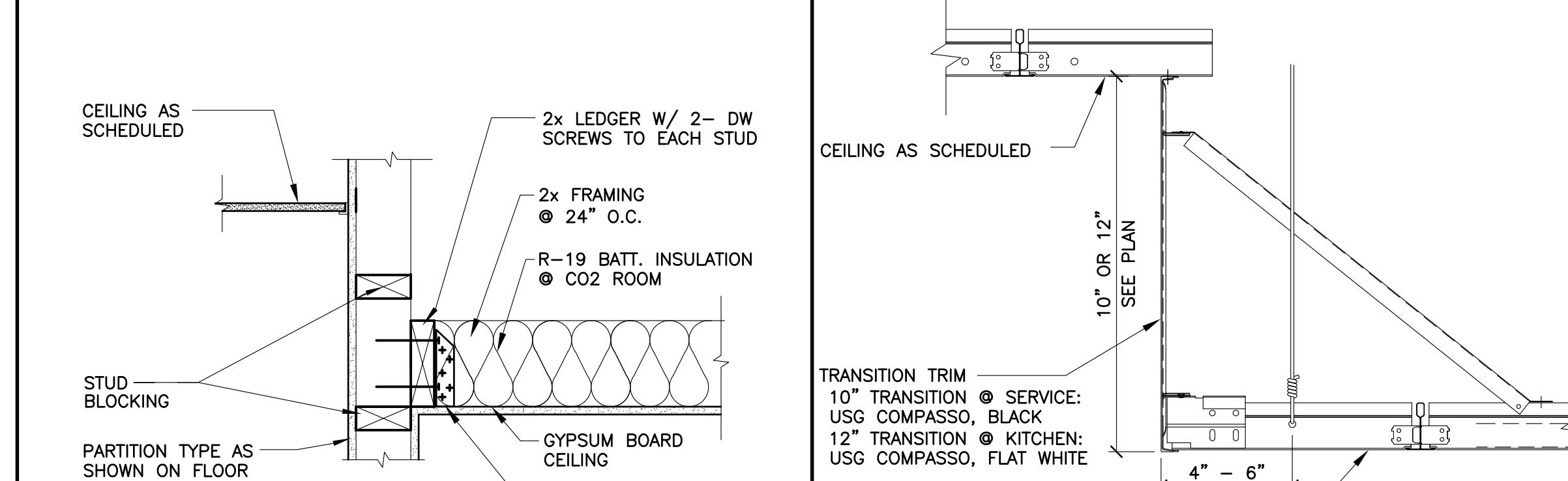
DETAIL NOT USED

A1.2 NOT TO SCALE



GYP BD CEILING DETAIL

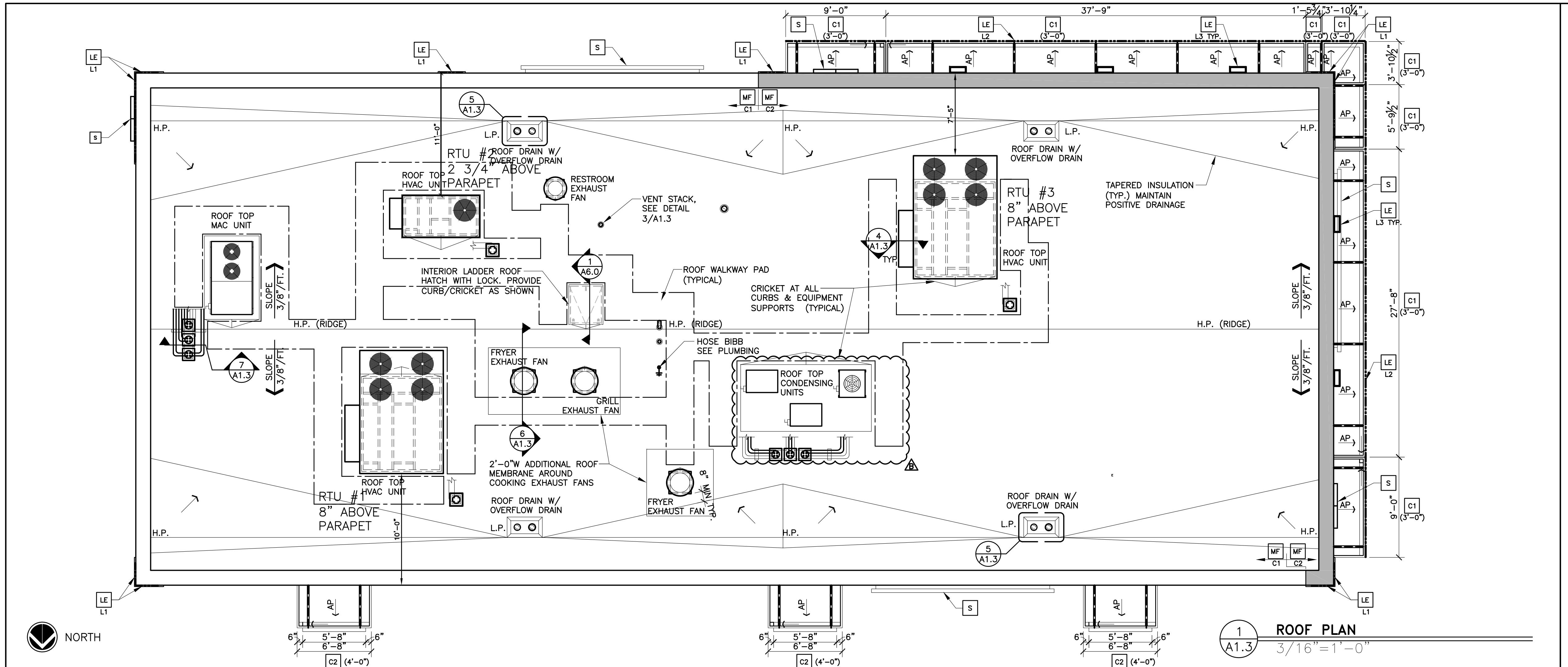
A1.2 1 1/2" = 1'-0" A0610WB1



ACOUSTIC CEILING TRANSITION

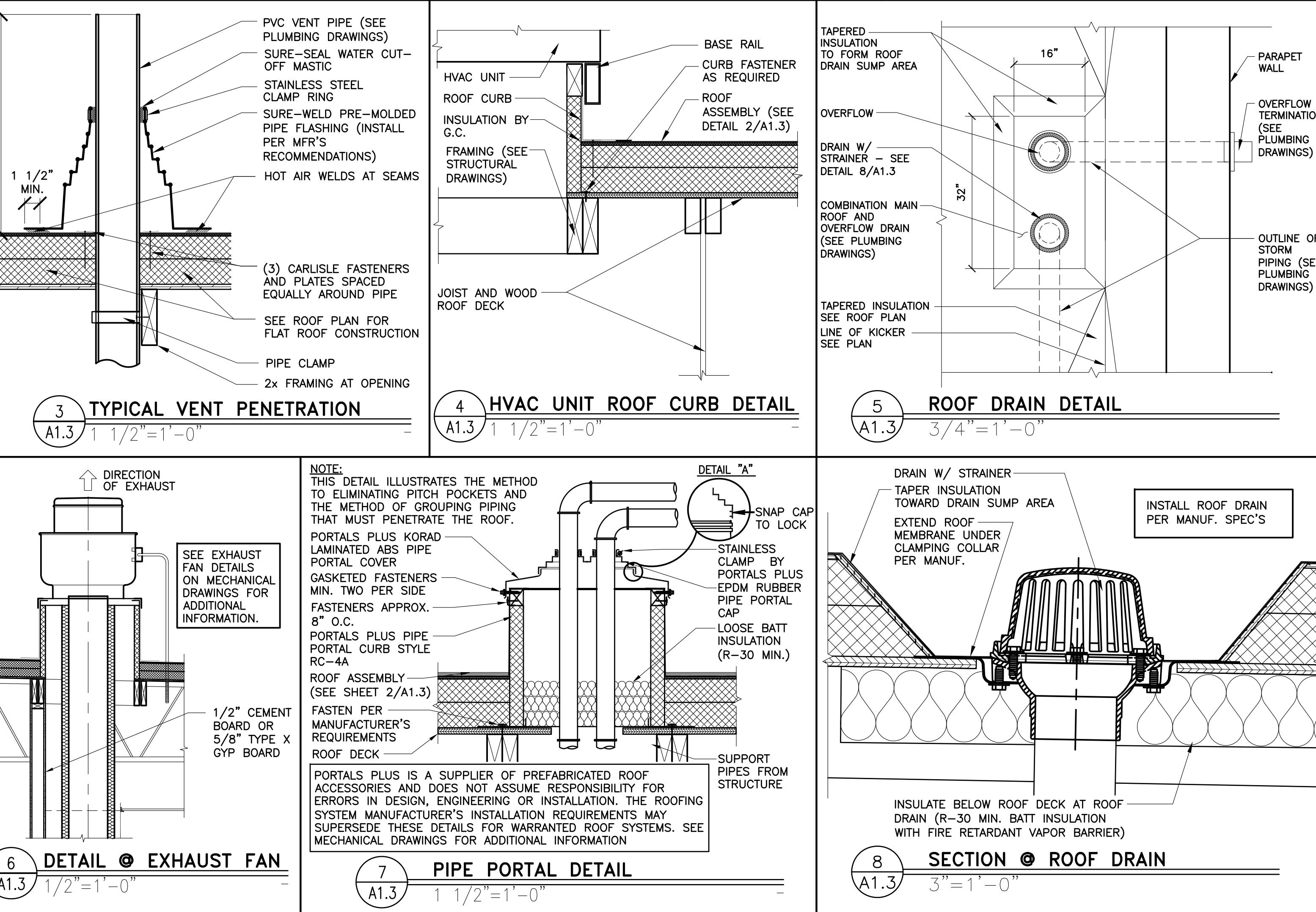
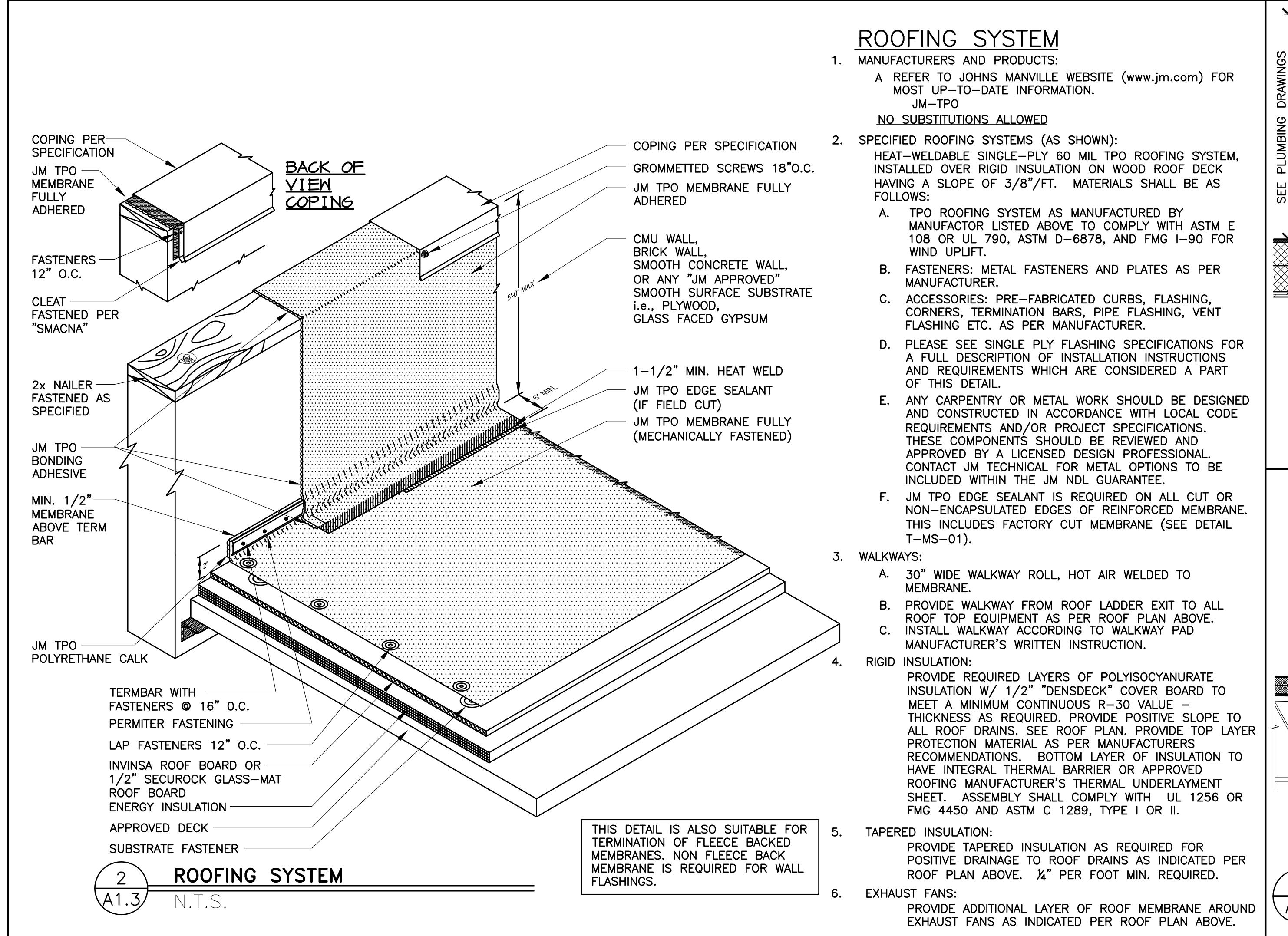
A1.2 N.T.S. COORDINATE w/ DECOR

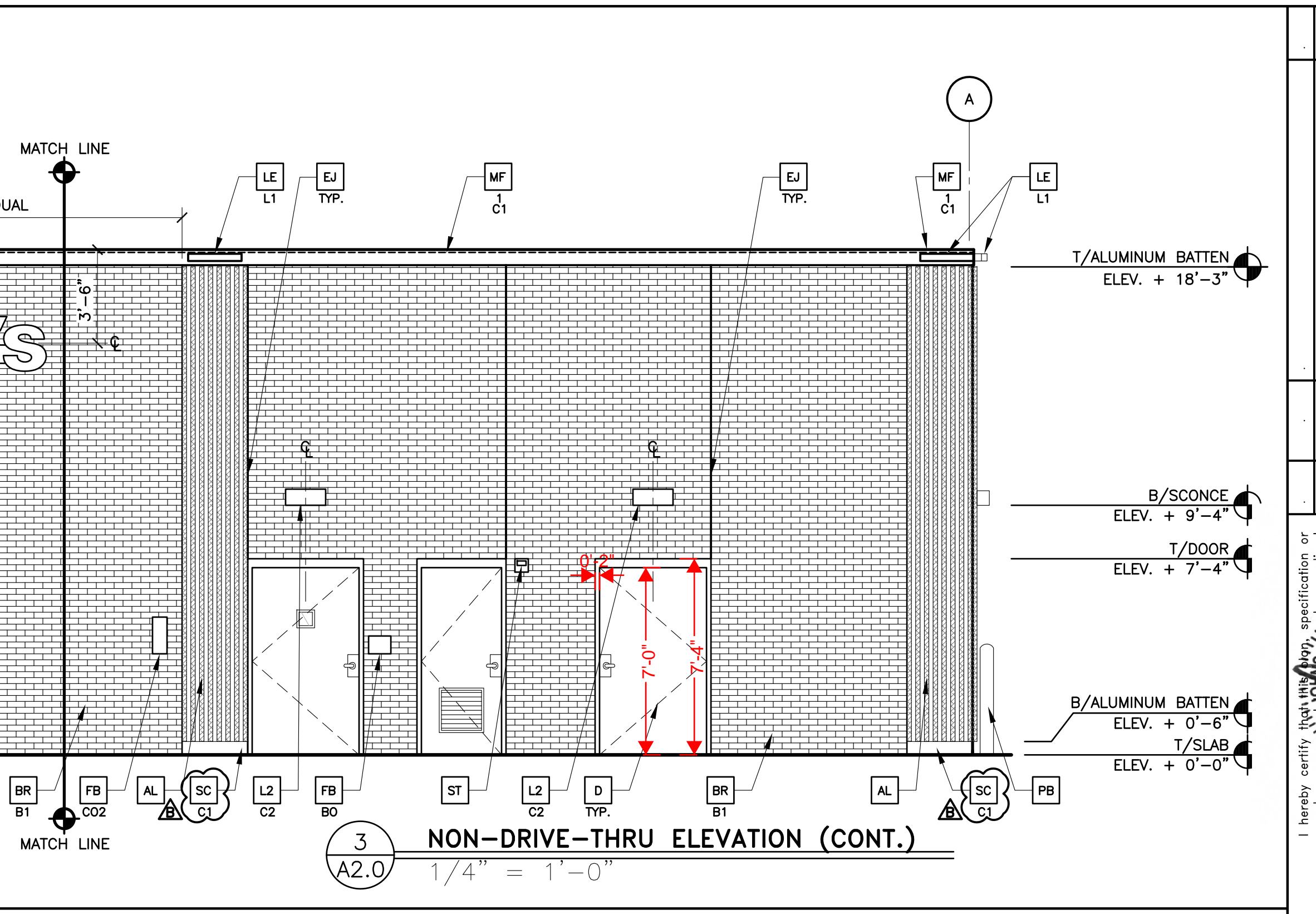
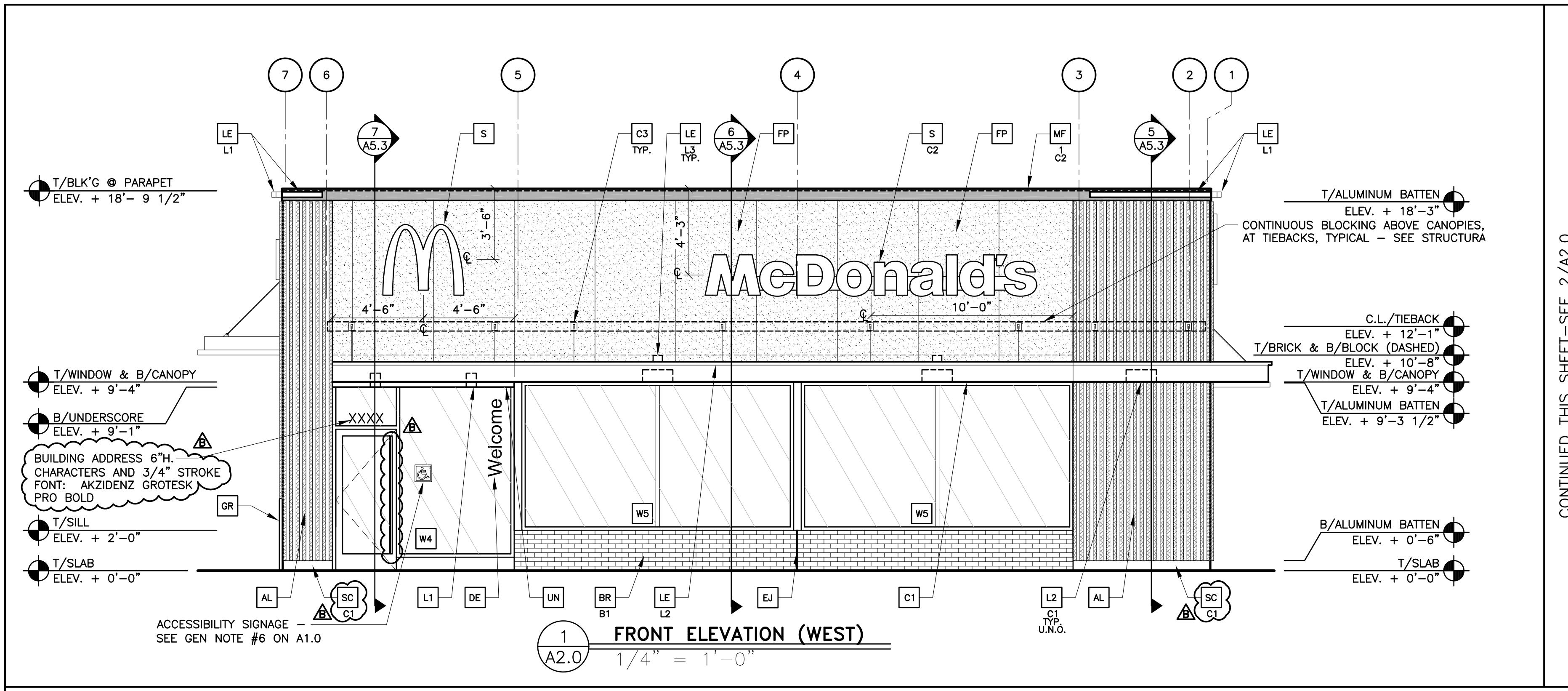
SHEET NO. 015-0071.00.B  
TITLE 2019 STANDARD BUILDING - BB20  
DESCRIPTION WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI  
WOOD ROOF TRUSS FRAMING  
FIBER CEMENT PANEL/BATTEN/AUPOIC PANEL/BRICK EXT. FINISH  
SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS  
SITE ID 015-0071  
REFLECTED CLG. PLAN



| SHEET NO. | TITLE                         | REV | DATE     | DESCRIPTION                 |
|-----------|-------------------------------|-----|----------|-----------------------------|
|           | 2019 STANDARD BUILDING - BB20 | B   | 12/03/20 | SERVICE AREA OPTIMIZATION   |
|           | 459/F10-WOOD/WOOD             | A   | 05/15/20 | USFD SA SET REVIEW          |
|           |                               |     | 11/15/20 | CIVL & PLAN REVIEW COMMENTS |
|           |                               |     | 01/23/20 | PERMIT SET                  |
|           |                               |     | 01/13/20 | USD PROGRESS SET REVIEW     |
|           |                               |     |          | BY                          |

| PREPARED BY:              | McDonald's USA, LLC       | DRAWN BY:                        | REVIEWED BY:                                  | DATE ISSUED: | DATE REVISED: | SITE ADDRESS:                                          |
|---------------------------|---------------------------|----------------------------------|-----------------------------------------------|--------------|---------------|--------------------------------------------------------|
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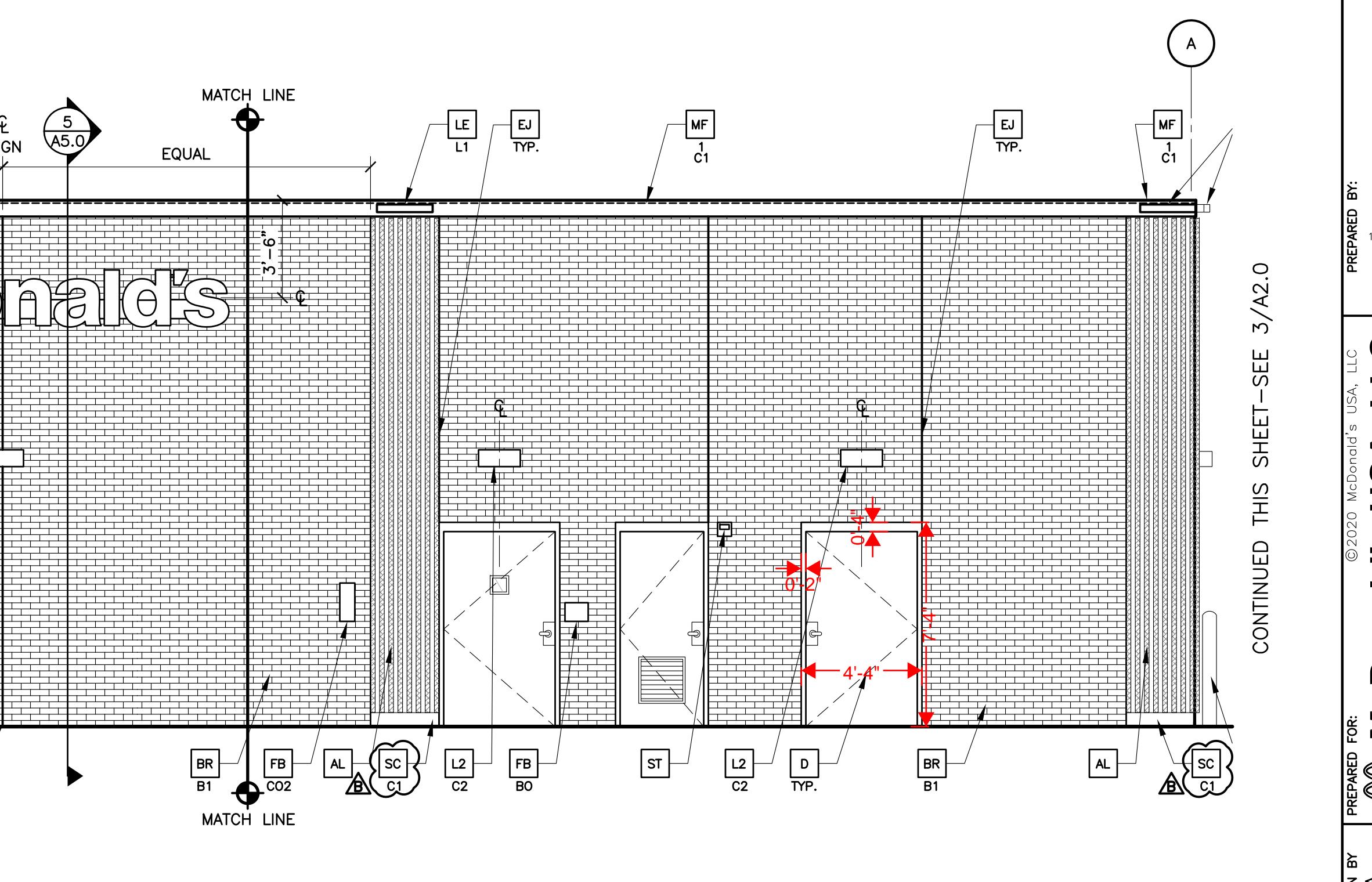
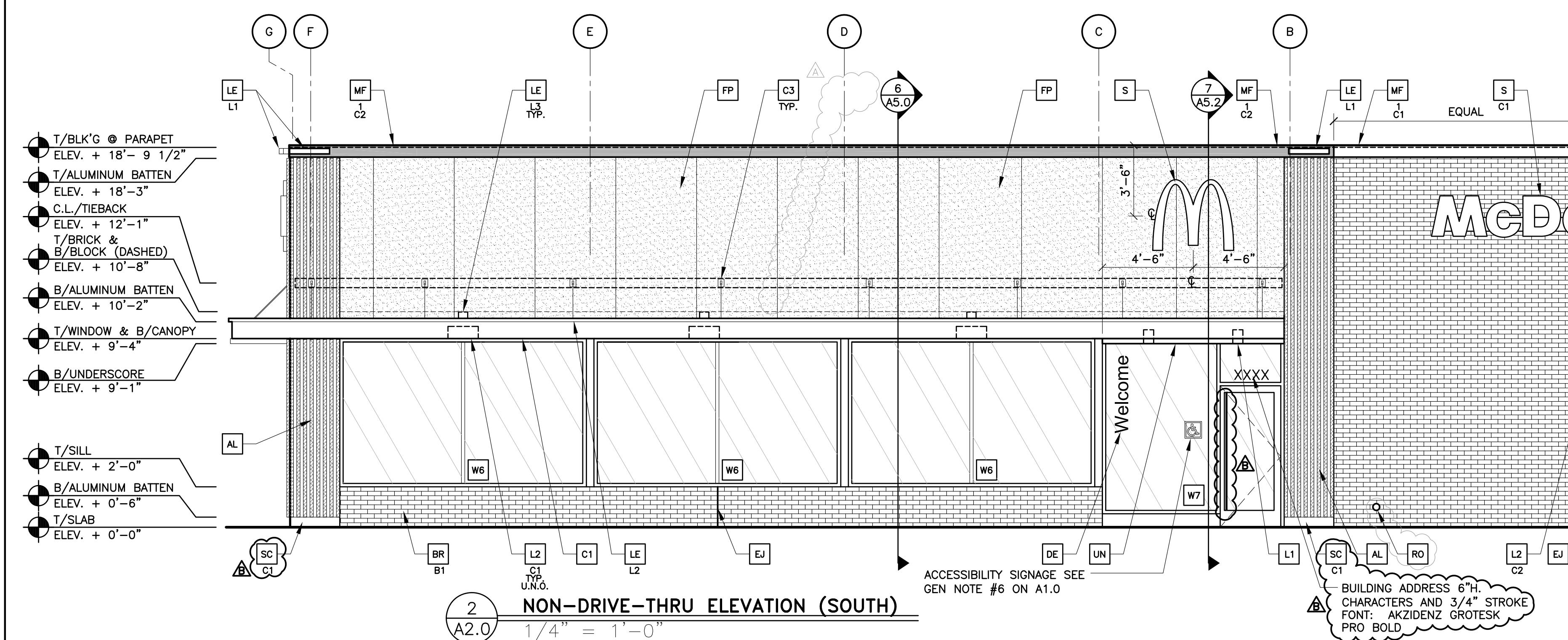




| REVISION | DATE     | DESCRIPTION                   |
|----------|----------|-------------------------------|
| B        | 12/03/20 | USED S40 PLAN REVIEW COMMENTS |
| A        | 05/05/20 | CIVIL & PLAN REVIEW COMMENTS  |
|          | 01/23/20 | PERMIT SET                    |
|          | 01/13/20 | USED PROGRESS SET REVIEW      |

**Enterprise**  
Architecture, Inc.

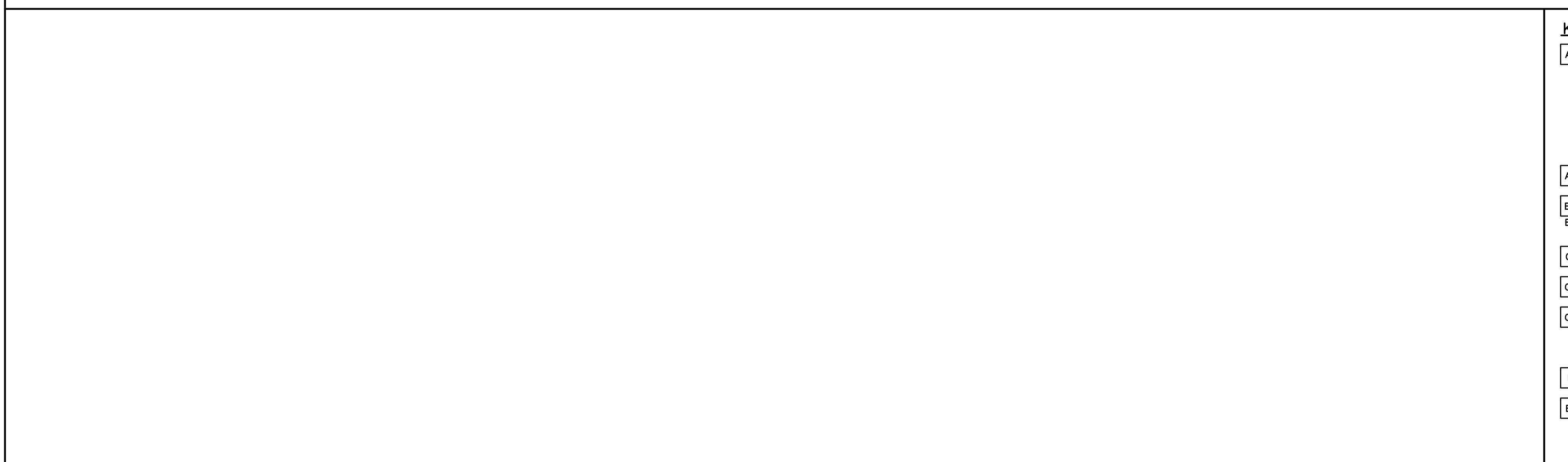
Registration Number  
Date



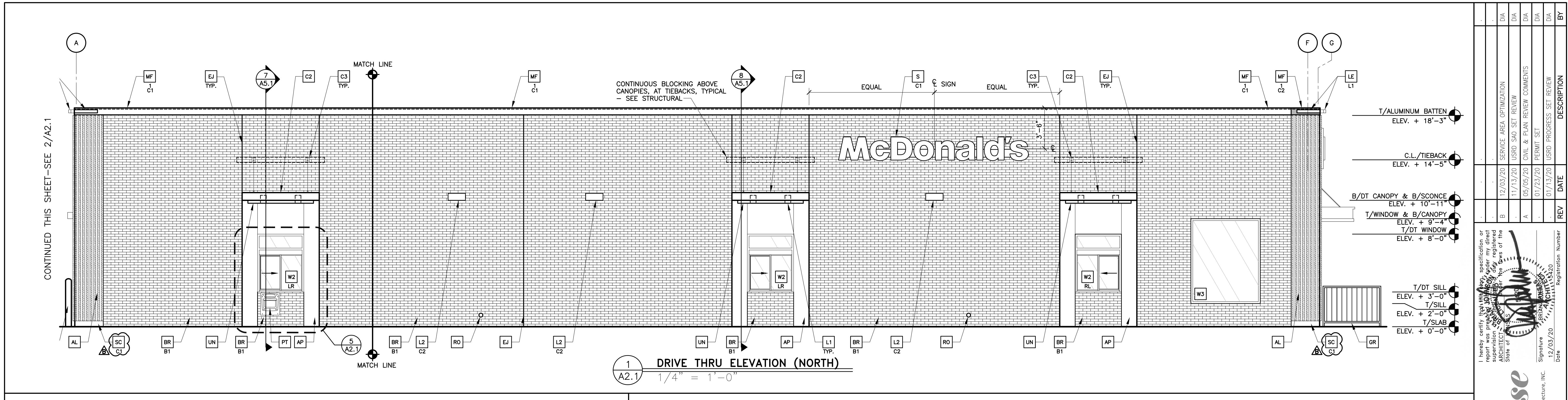
| PREPARED BY:               | DESIGN                                                                                                                                                                                 |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>McDonald's USA, LLC</b> | 12400 ARCHITECTURE & PLANNING<br>12400 PORTLAND AVENUE SOUTH,<br>SUITE 100<br>BURNSVILLE, MN 55337<br>EMAIL: DATAREPRESENTER@GMAIL.COM<br>PHONE: (952) 252-4042<br>FAX: (952) 252-4943 |

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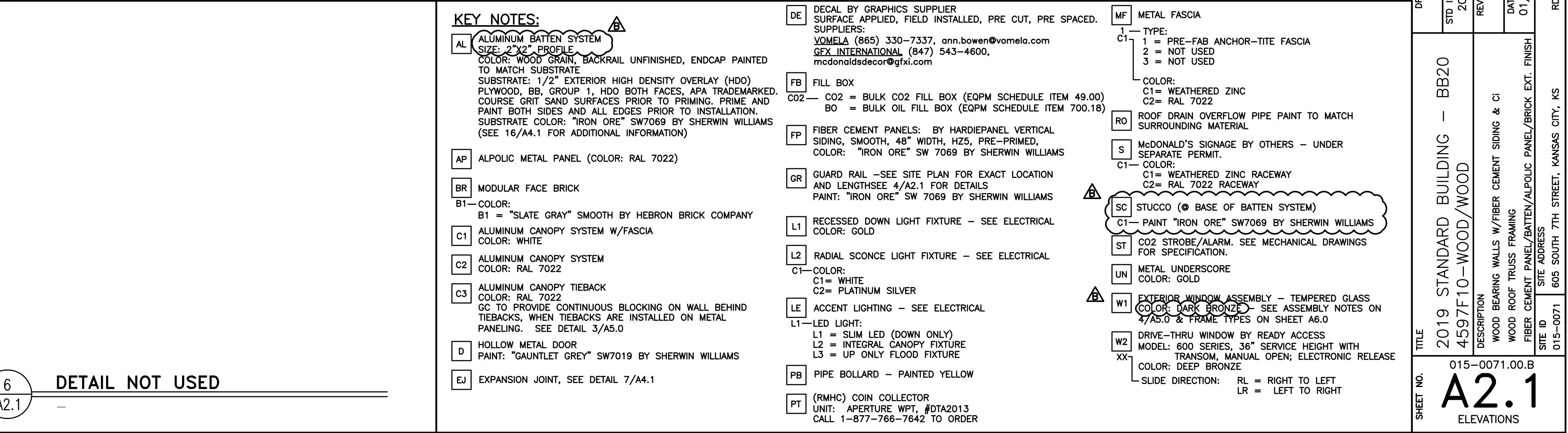
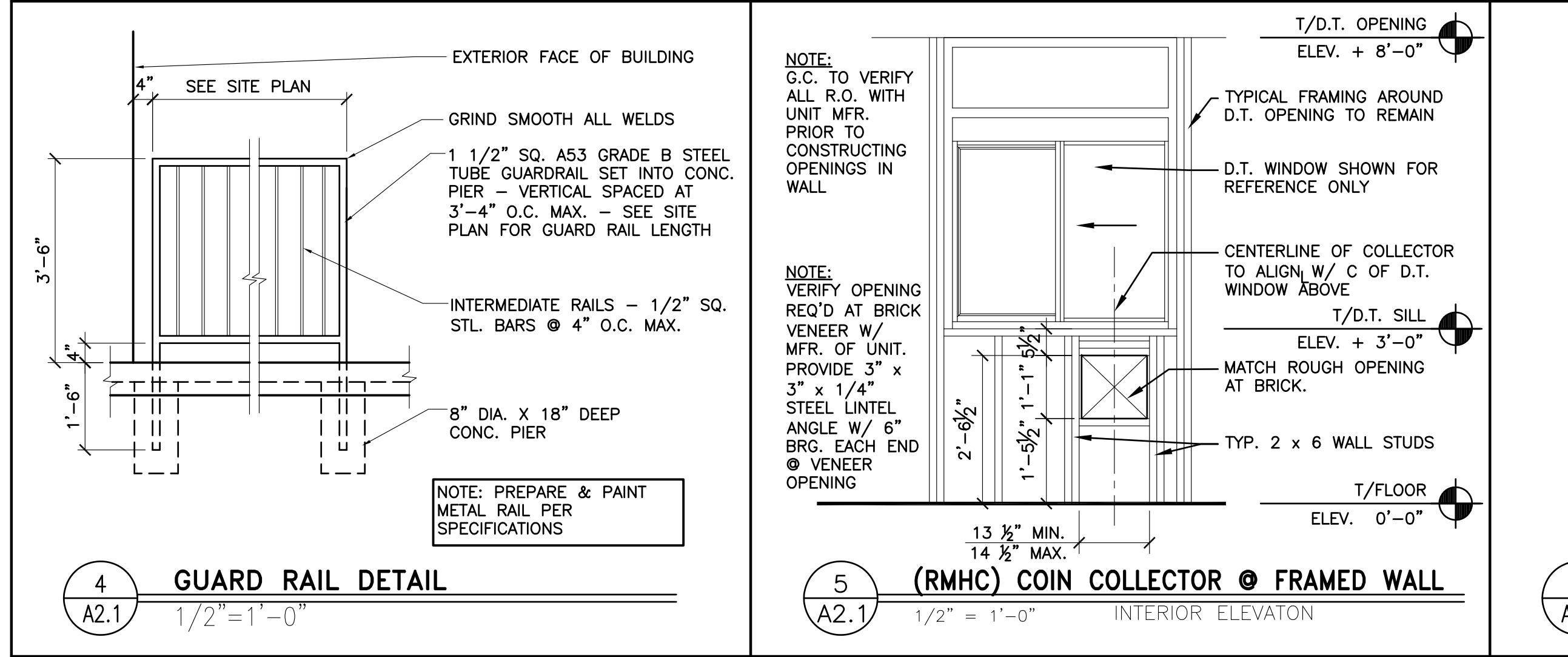
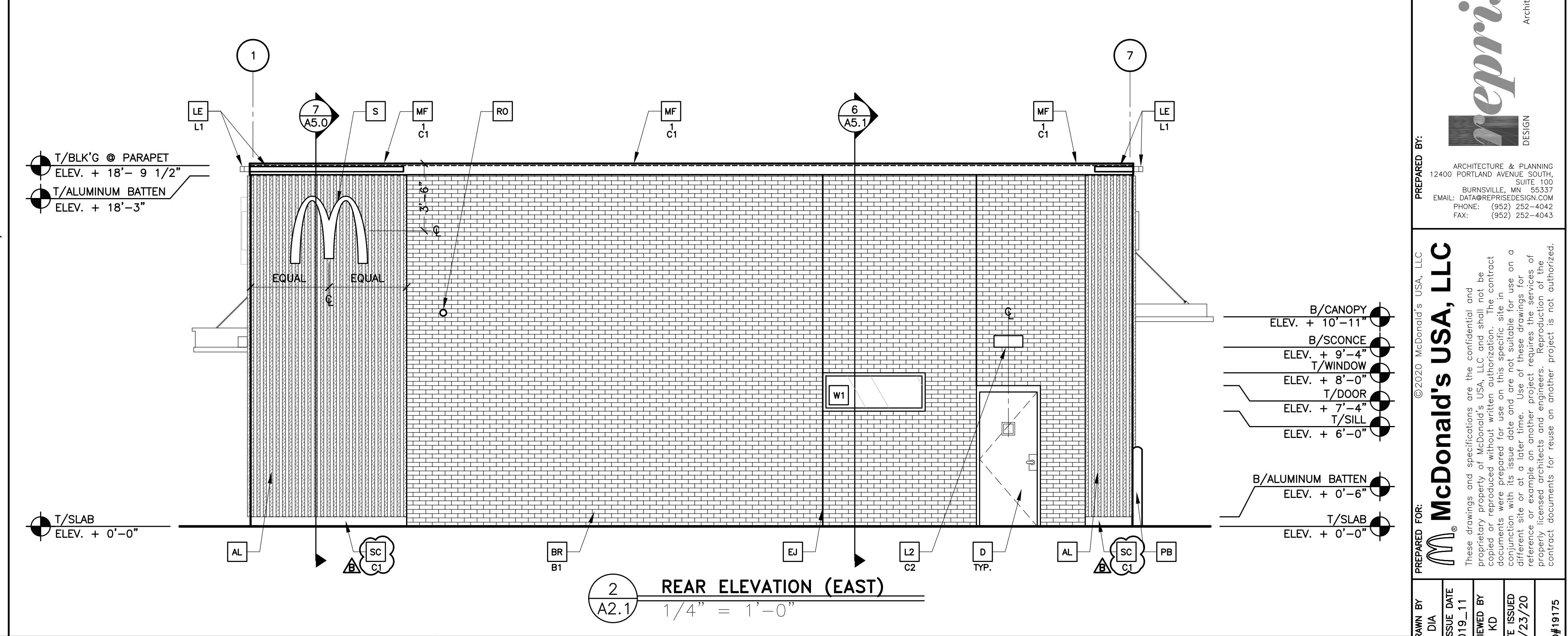
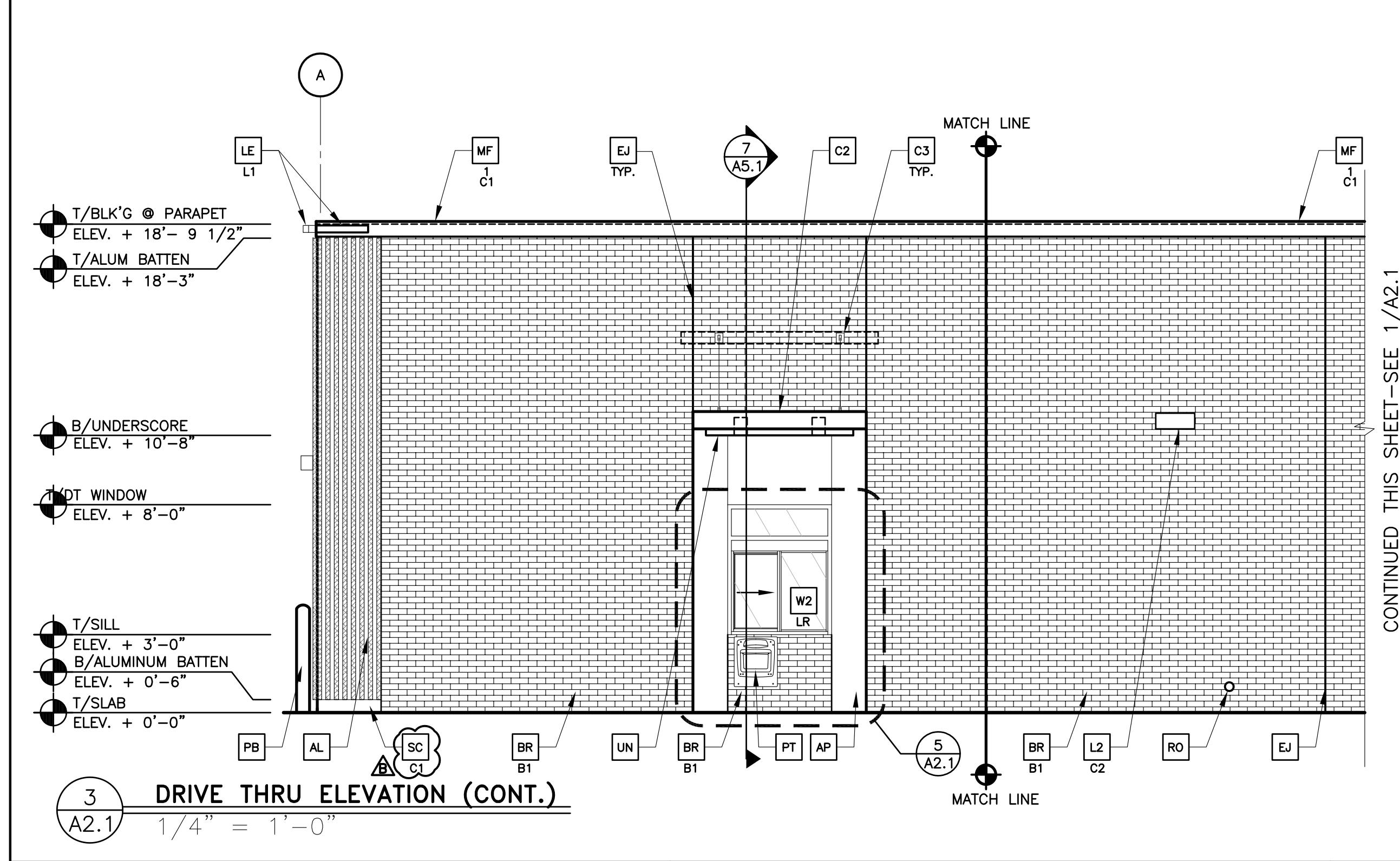


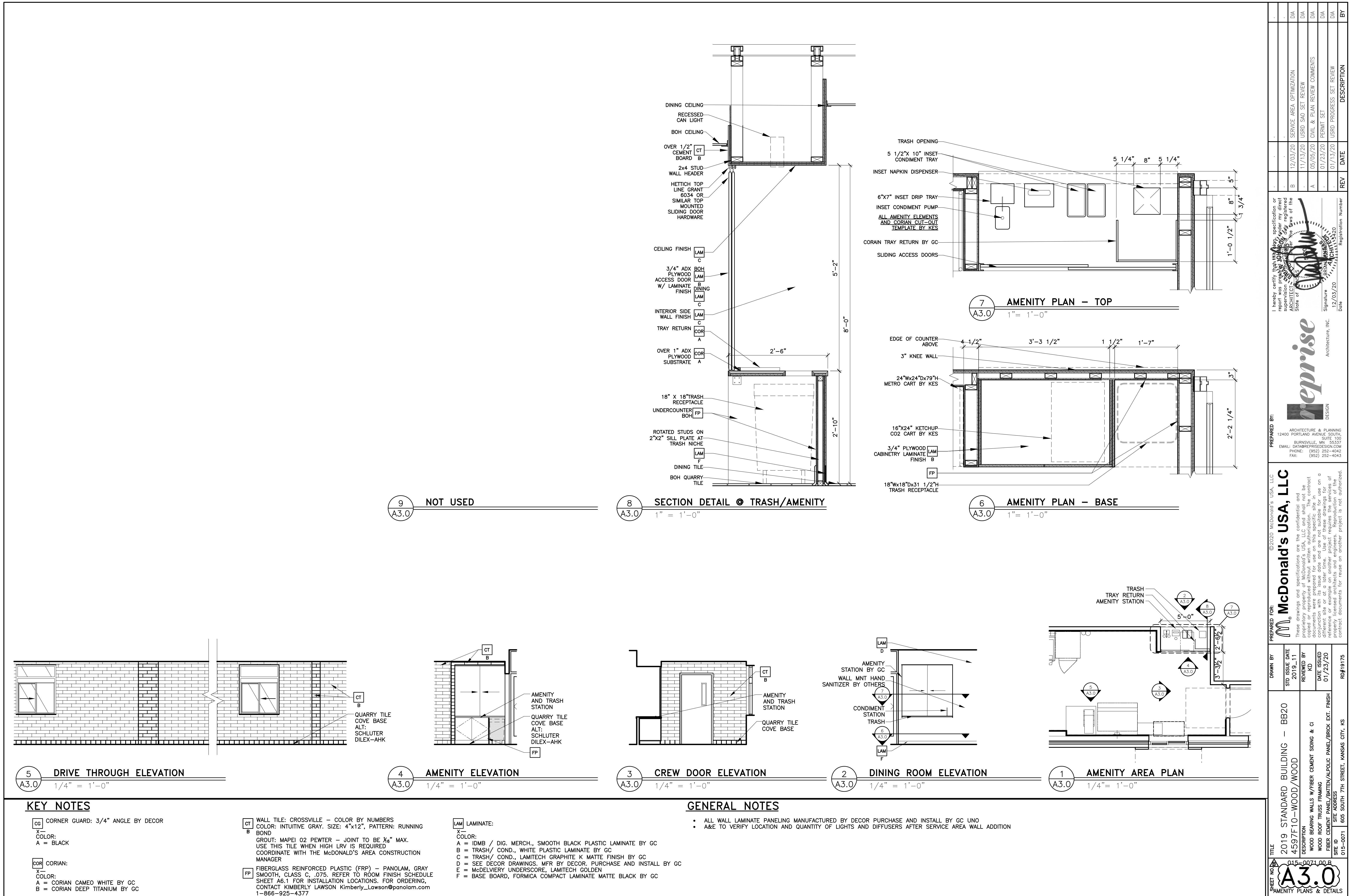
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|-------------------------------------------------------|---------|----------------|-------------|----------|
| 2019 STANDARD BUILDING - BB20                         | 2019-11 |                | KO          |          |
| 4597F10-WOOD/WOOD                                     |         |                |             |          |
| DESCRIPTION                                           |         |                |             |          |
| WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI         |         |                |             |          |
| WOOD ROOF TRUSS FRAMING                               |         |                |             |          |
| EXTERIOR PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH |         |                |             |          |
| SITE ID                                               |         |                |             |          |
| 015-0071.00.B                                         |         |                |             |          |
| SHEET NO.                                             |         |                |             |          |
| 015-0071.00.B                                         |         |                |             |          |
| <b>A2.0</b>                                           |         |                |             |          |
| ELEVATIONS                                            |         |                |             |          |

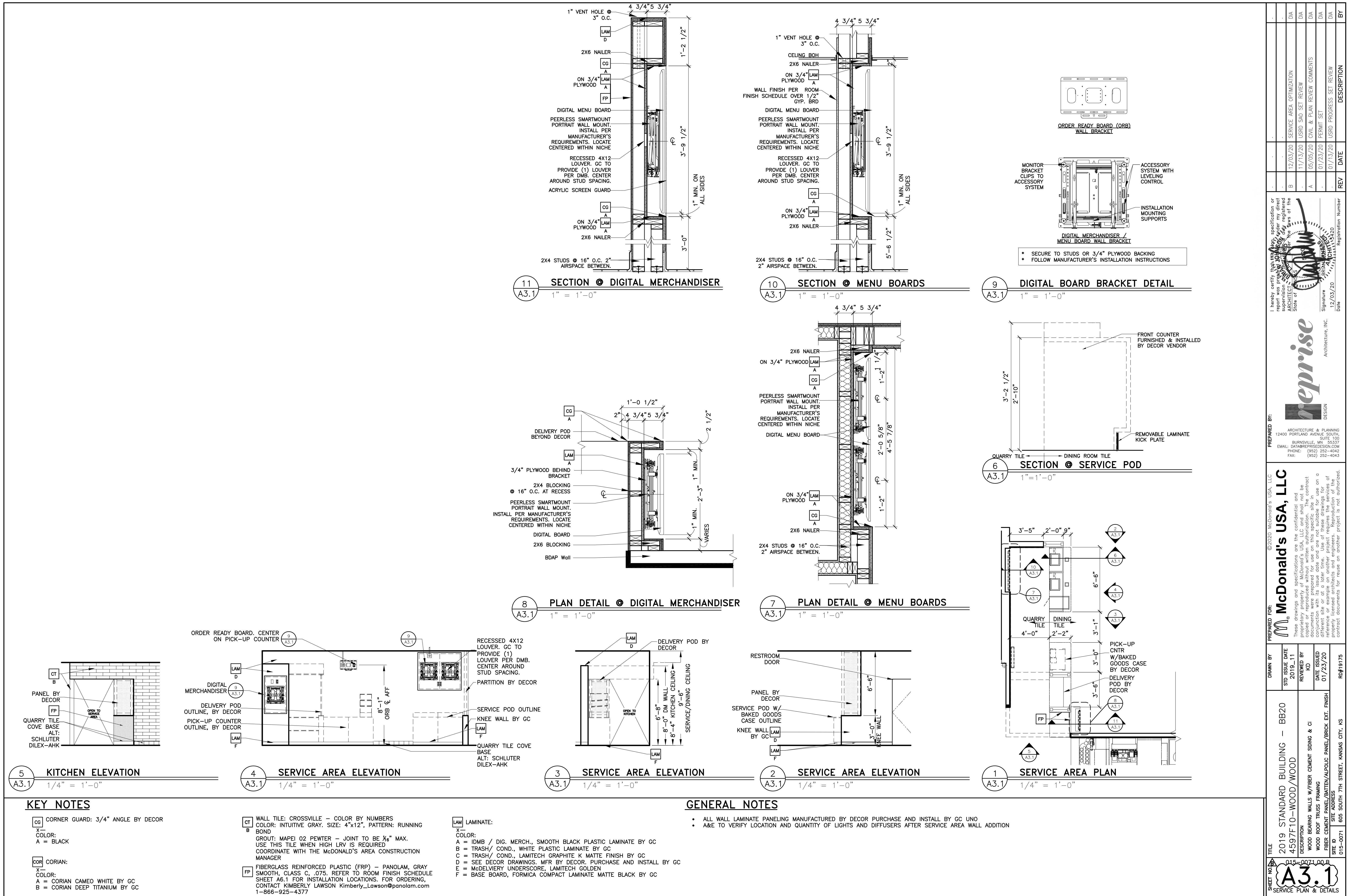


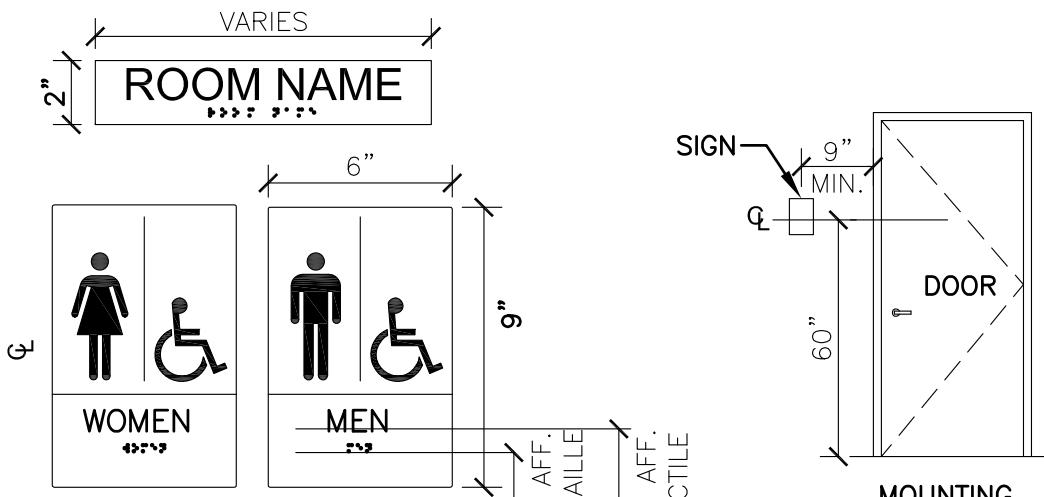
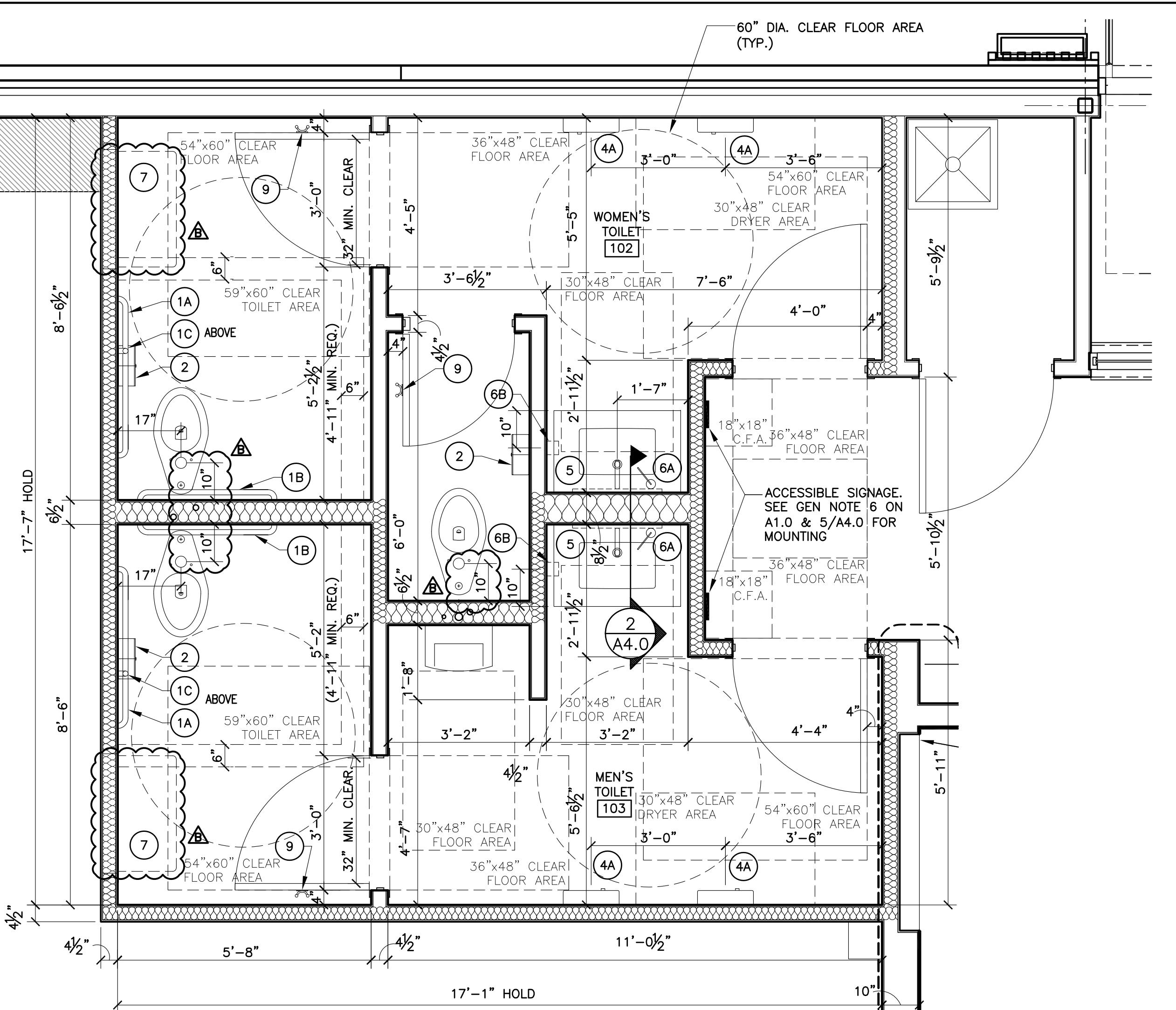
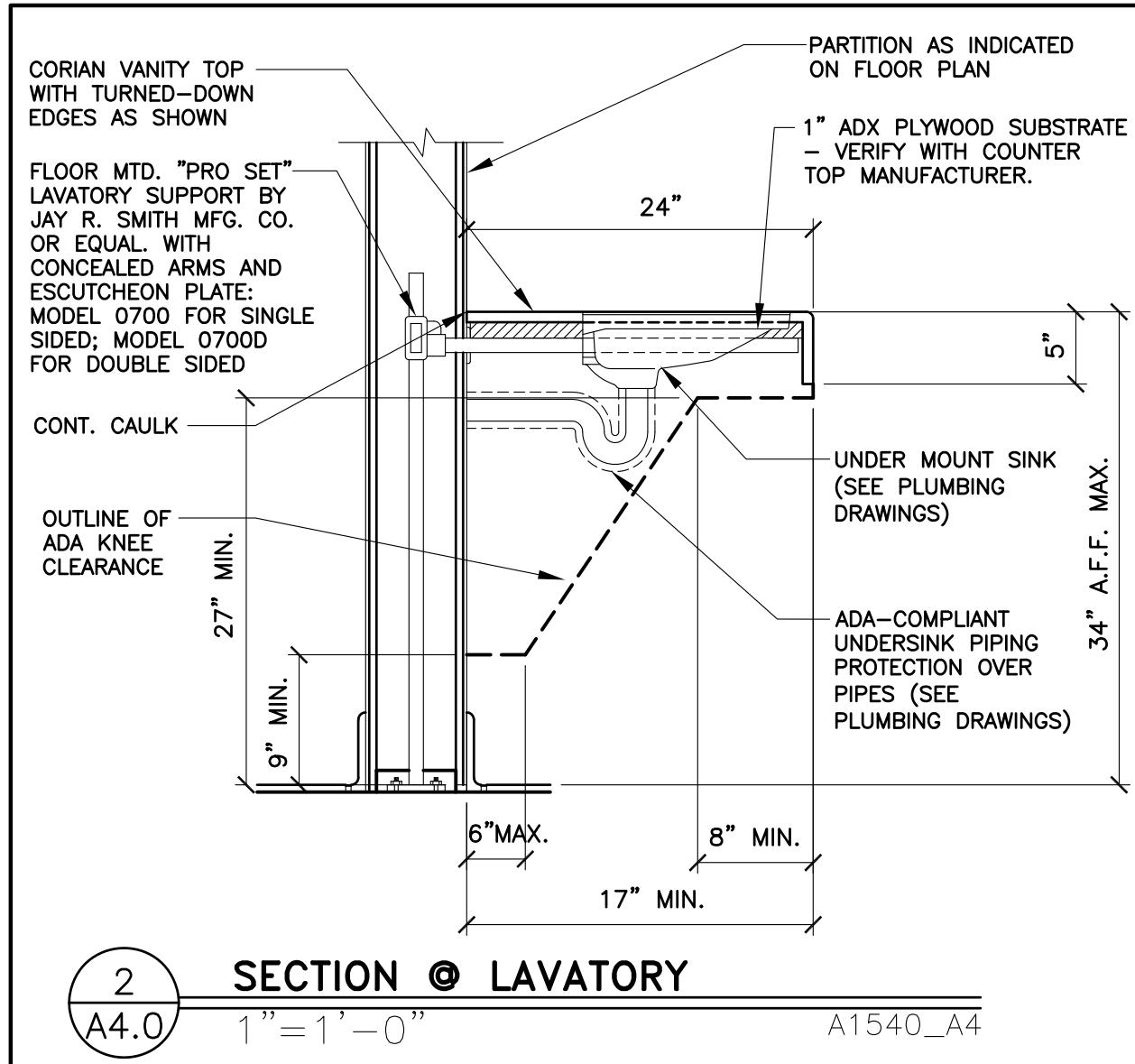
I hereby certify that the above specification or report was prepared under my direct supervision and direction and is my own work. I am responsible for the contents of this document.

Signature: *[Signature]*  
Title: ARCHITECT  
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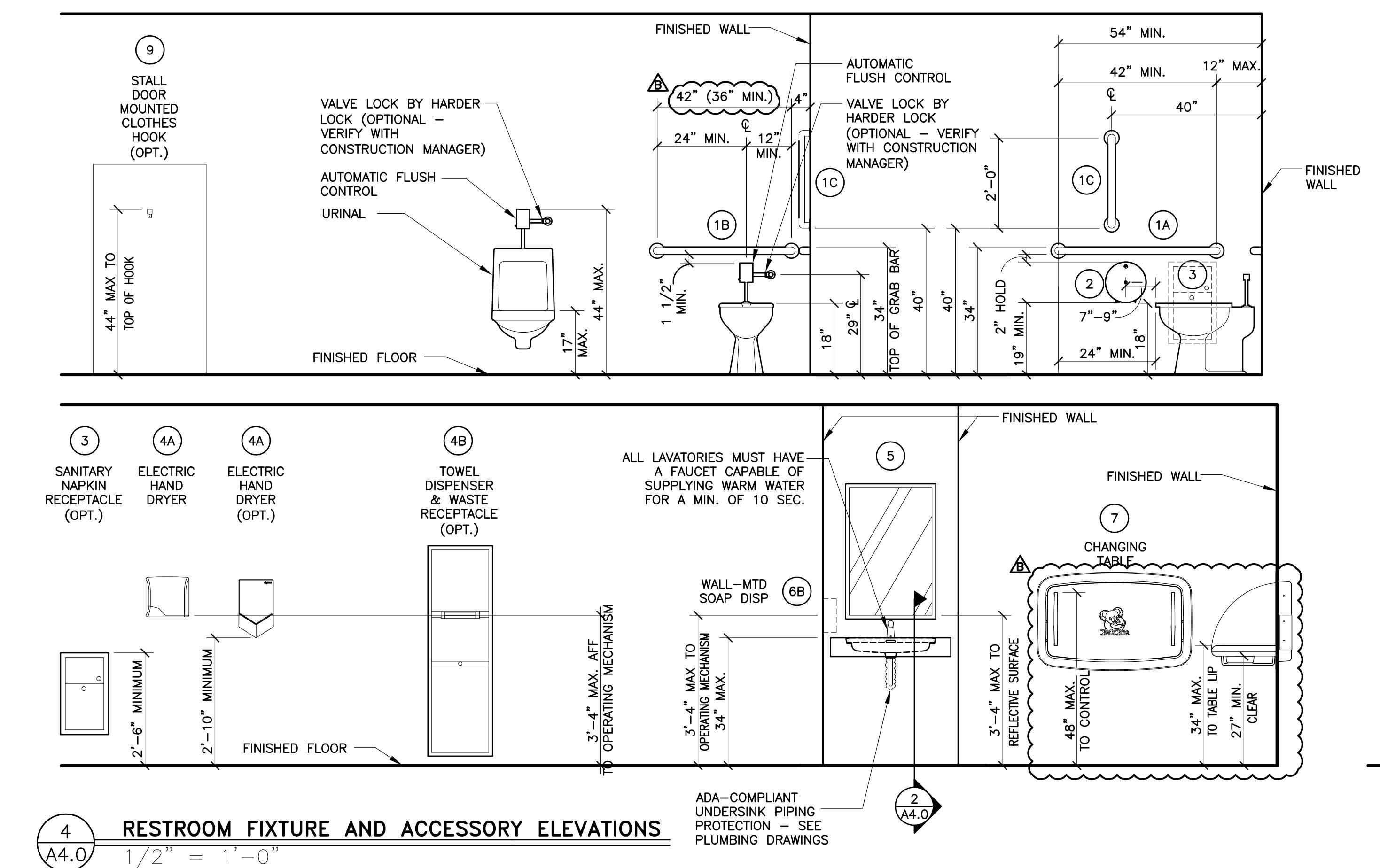
GRAPHICS SHOWN ARE FOR REFERENCE ONLY.  
GC TO PROVIDE ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY:

FORREST PERMA-SIGN  
9292 1ST ST. BOX 588  
NEW ROCHELLE, NY 10802  
www.forsigns.com  
1-800-214-8765

SIGNAGE NOTES:

- EACH EXIT DOOR SHALL HAVE A TAUCLE SIGN, INCLUDING RAISED LETTERS AND BRAILLE, STATING "EXIT" AND SHALL COMPLY WITH CHAPTER 7. ALL SIGNAGE SHALL CONFORM WITH ACCESSIBILITY GUIDELINES AND LOCAL GUIDELINES INCLUDING BUT NOT LIMITED TO PROPORTION, COLOR CONTRAST AND RELIEF AND GRADE 2 BRAILLE REQUIREMENTS.
- WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH CHAPTER 7. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

ACCESSIBLE SIGNAGE  
N.T.S.



| ITEM (SEE NOTE 2) | MFR MODEL #                                                                                                                                                 | SUPPLIER                                           | BACKUP SUPPORT (SEE NOTE 3)                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| 1A<br>1B<br>1C    | GRAB BAR 42"<br>GRAB BAR 42"<br>GRAB BAR 24"                                                                                                                | HUGHES SUPPLY (866) 310-3576<br>MDCCOORD@HAJOCACOM | (1)2x6 4'-0" LONG CENTER MOUNTED                      |
| 2                 | TOILET TISSUE DISPENSER, JUMBO, SURFACE MOUNTED                                                                                                             | BRADLEY B-5424                                     | FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS |
| 3                 | SANITARY NAPKIN RECEPTACLE, RECESSED (OPTIONAL)                                                                                                             | BOBRICK B-354                                      |                                                       |
| 4A<br>4A OPTION   | HAND DRYER, ENERGY EFFICIENT MODEL, ADA, ALUMINUM BRUSHED<br>HAND DRYER, ENERGY EFFICIENT MODEL ADA, SPRAYED NICKEL                                         | WORLD DRYER L-971 SlimDri<br>DYSON AIRBLADE V      | FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS |
| 4B<br>4B OPTION   | TOWEL DISPENSER & WASTE RECEPTACLE, COMBINATION, RECESSED (OPTIONAL)                                                                                        | BOBRICK B-3974                                     | HUGHES SUPPLY (866) 310-3576<br>MDCCOORD@HAJOCACOM    |
| 5                 | MIRROR, CHANNEL FRAME                                                                                                                                       | BOBRICK B-165 2436                                 |                                                       |
| 6A<br>6B          | SOAP DISPENSER, COUNTER MOUNTED, 6" SPOUT (OPTIONAL)<br>SOAP DISPENSER, WALL-MOUNTED                                                                        | BOBRICK B-82216<br>BOBRICK B-2112                  | HUGHES SUPPLY (866) 310-3576<br>MDCCOORD@HAJOCACOM    |
| 7<br>7 OPTION     | BABY CHANGING TABLE, HORIZONTAL, RECESSED, ADA COMPLIANT, STAINLESS STEEL<br>BABY CHANGING TABLE, HORIZONTAL, SURFACE MOUNT, ADA COMPLIANT, STAINLESS STEEL | KOALA KARE KB310-SRSE<br>KOALA KARE KB310-SWMM     | INSTALL PER MANUFACTURER'S RECOMMENDATIONS            |
| 8                 | DIAPER CONTAINER (OPTIONAL)                                                                                                                                 | -                                                  | BY OWNER                                              |
| 9                 | CLOTHES HOOK                                                                                                                                                | BRADLEY 917                                        | HUGHES SUPPLY (866) 310-3576<br>MDCCOORD@HAJOCACOM    |

| ITEM                                               | DESCRIPTION                                                                                                                             | STD ISSUE DATE | REV'D BY | DATE ISSUED | SITE ADDRESS                          |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-------------|---------------------------------------|
| 2019 STANDARD BUILDING - BB20<br>4597E10-WOOD/WOOD | WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/AUPOVIC PANEL/BRICK EXTER. FINISH | 2019-11        | KO       | 01/23/20    | 605 SOUTH 7TH STREET, KANSAS CITY, KS |

McDonald's USA, LLC  
Architect, Inc.  
DESIGN

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DRAWN BY:  
STD ISSUE DATE

REVIEWED BY:  
KO

DATE ISSUED

01/23/20

RD#19175

015-0071.00.B

|                                                                     |                                                                                                                                                                                                 |                                                                                                                                               |                                                          |                                                                                       |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p><b>CLOSURE DETAIL @ COOLER</b><br/>A4.1 1 1/2"=1'-0"</p>         | <p><b>BATTEN TO BRICK TRANSITION</b><br/>A4.1 1 1/2"=1'-0"</p>                                                                                                                                  | <p><b>DOOR JAMB @ F/C DOOR</b><br/>A4.1 1 1/2"=1'-0"</p>                                                                                      | <p><b>EXT.DORR JAMB DETAIL</b><br/>A4.1 1 1/2"=1'-0"</p> | <p><b>CREW WINDOW JAMB DETAIL</b><br/>A4.1 1 1/2"=1'-0"</p>                           |
| <p><b>ORDER WINDOW JAMB DETAIL</b><br/>A4.1 1 1/2"=1'-0"</p>        | <p><b>EXPANSION JOINT DETAILS</b><br/>A4.1 1 1/2"=1'-0"</p>                                                                                                                                     | <p><b>DETAIL @ COLUMN</b><br/>A4.1 1 1/2"=1'-0"</p>                                                                                           | <p><b>NOT USED</b><br/>A4.1 -</p>                        | <p><b>BATTEN TO FIBER CEMENT PANEL TRANSITION</b><br/>A4.1 1 1/2"=1'-0" 4597 ONLY</p> |
| <p><b>CORNER DETAIL @ ENTRY</b><br/>A4.1 1 1/2"=1'-0" 4597 ONLY</p> | <p><b>DETAIL @ COLUMN</b><br/>A4.1 1 1/2"=1'-0" 4597 ONLY</p>                                                                                                                                   | <p><b>NOT USED</b><br/>A4.1 -</p>                                                                                                             | <p><b>NOT USED</b><br/>A4.1 -</p>                        | <p><b>NOT USED</b><br/>A4.1 -</p>                                                     |
| <p><b>ALUMINUM BATTEN DETAIL</b><br/>A4.1 1/4"=1'-0"</p>            | <p><b>SECTION A: PLAN DETAIL AT BATTENS</b><br/>SCALE: 3'=1'-0"</p> <p><b>ELEVATION DETAIL AT BATTENS</b><br/>SCALE: 1 1/2"=1'-0"</p> <p><b>ALL SUBSTRATE, HAT CHANNELS AND TRIM BY GC.</b></p> | <p><b>ELEVATION DETAIL AT BATTEN JOINTS</b><br/>SCALE: 1 1/2"=1'-0"</p> <p><b>PRIME AND PAINT ALL SIDES AND EDGES PRIOR TO INSTALLING</b></p> | <p><b>NOT USED</b><br/>A4.1 -</p>                        | <p><b>NOT USED</b><br/>A4.1 -</p>                                                     |

I hereby certify that the above specification or drawing was prepared under my direct supervision and control and is registered with the State of Kansas.

*[Signature]*  
Architect, Inc.

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RD#19175

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REVIEWED BY KID DATE ISSUED 01/23/20

SITE ID 015-0071.000

SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS

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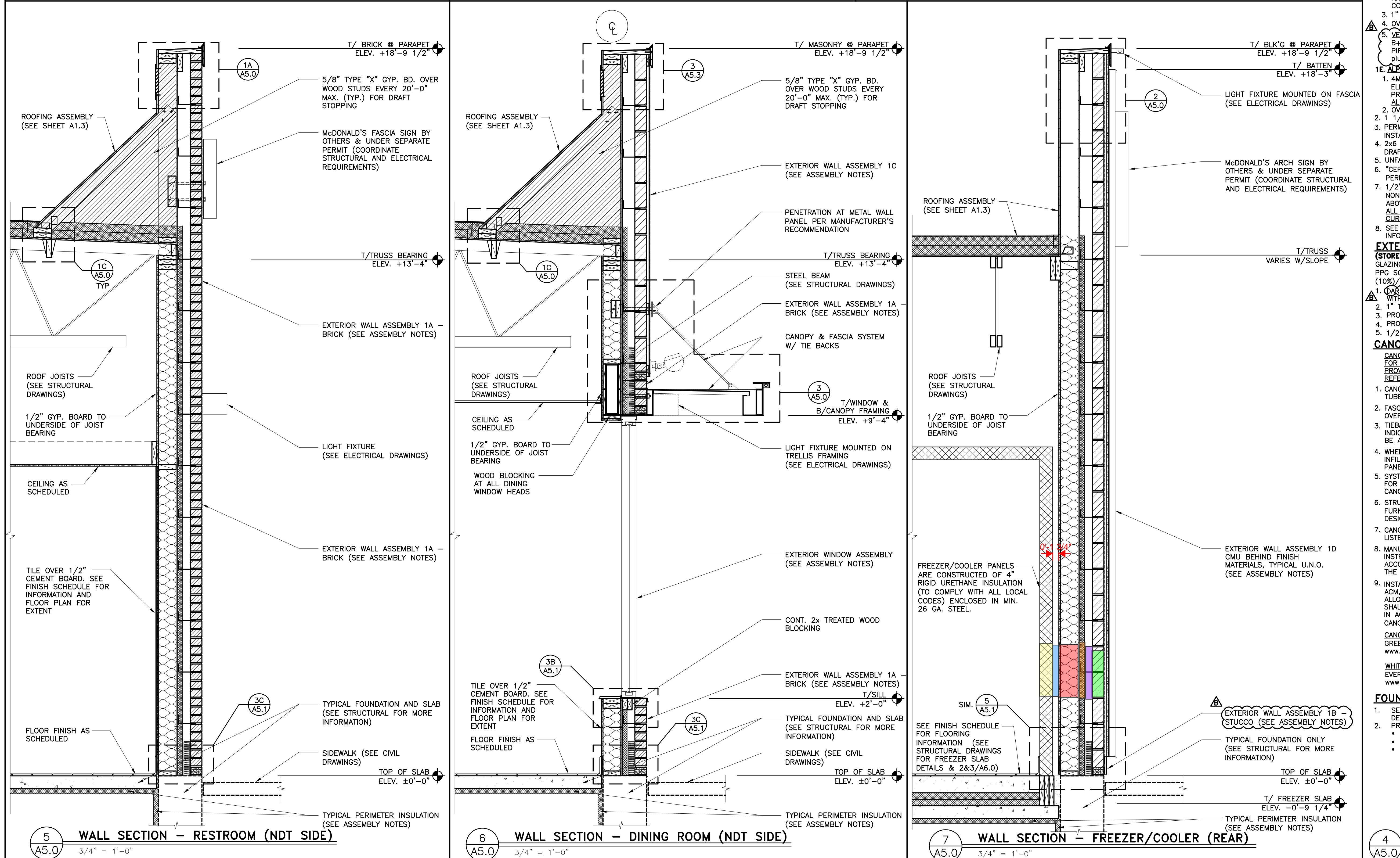
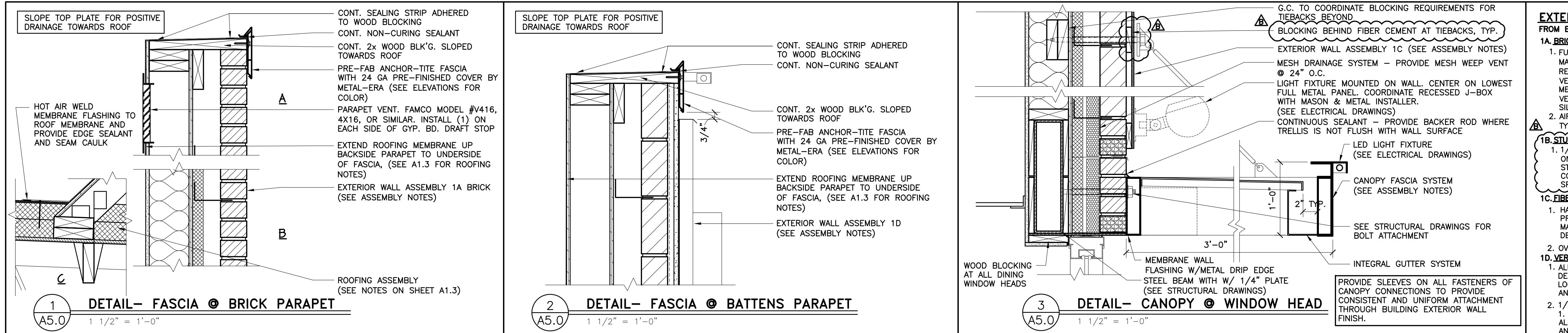
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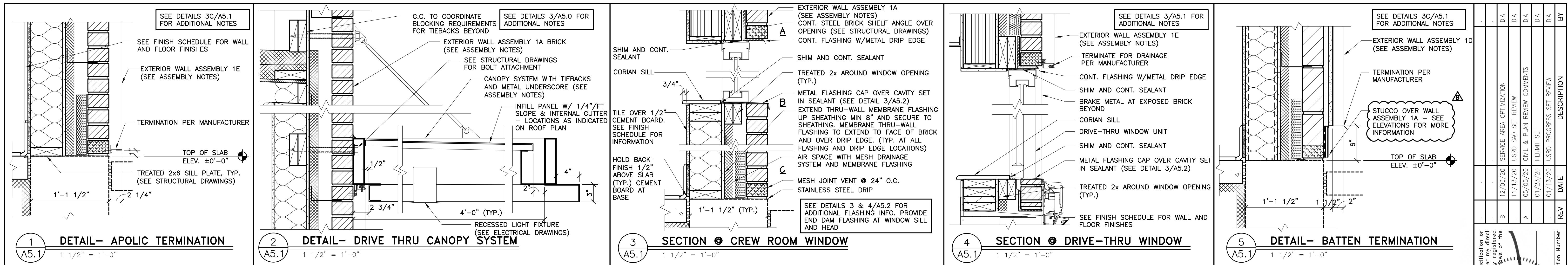
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| 015-0071.00.B | 2019 STANDARD BUILDING - BB20<br>459°F10-WOOD/WOOD | DIA<br>STD ISSUE DATE<br>2019-11<br>KID | DIA<br>REVIEWED BY<br>KID | 01/23/20    | 01/23/20     | REVIEW COMMENTS<br>CIVIL & PLAN REVIEW<br>PERMIT SET<br>PROGRESS SET REVIEW<br>DESCRIPTION<br>WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH<br>SITE ID<br>015-0071<br>SITE ADDRESS<br>605 SOUTH 7TH STREET, KANSAS CITY, KS |



Registration Number

Date

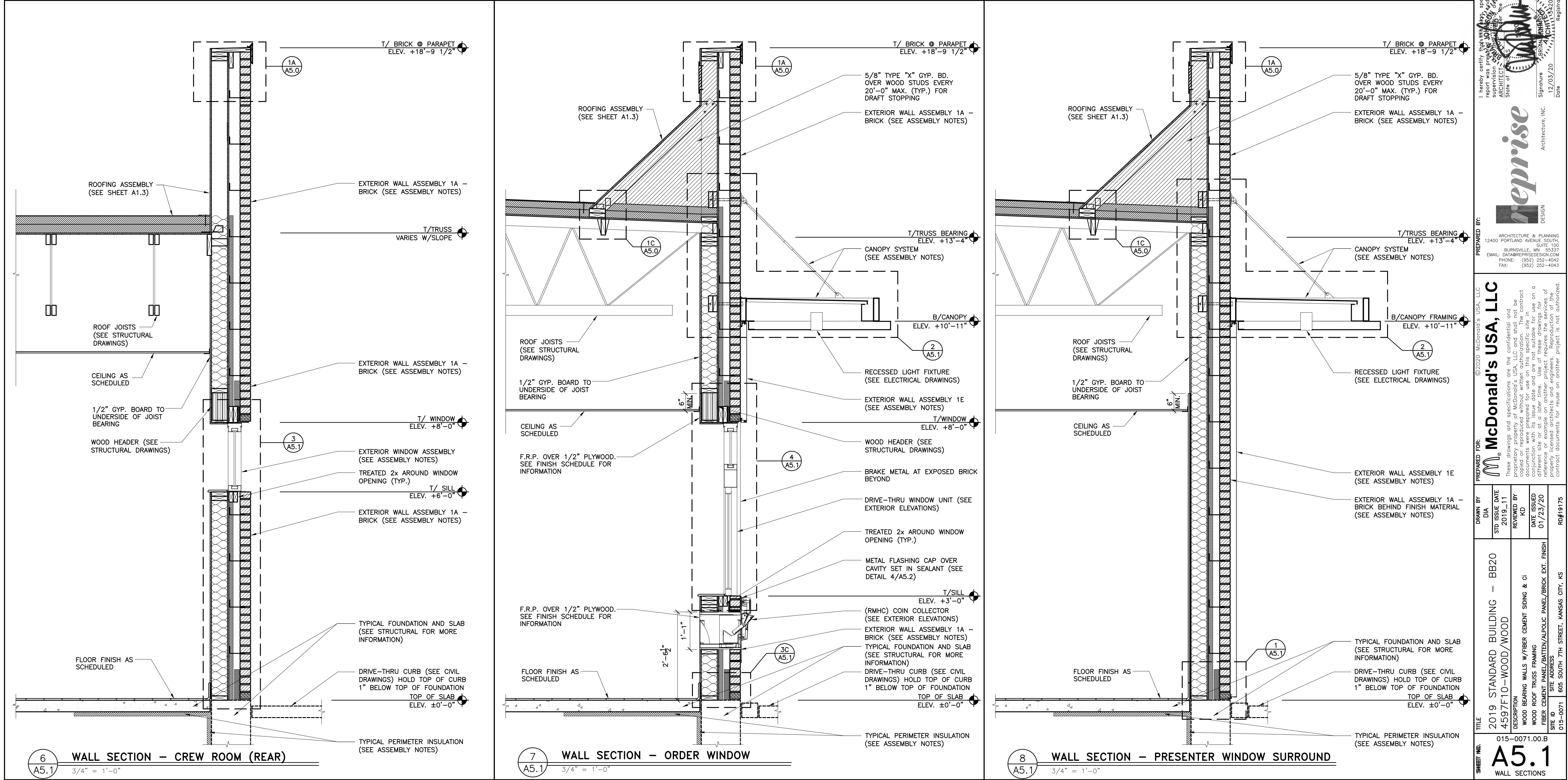
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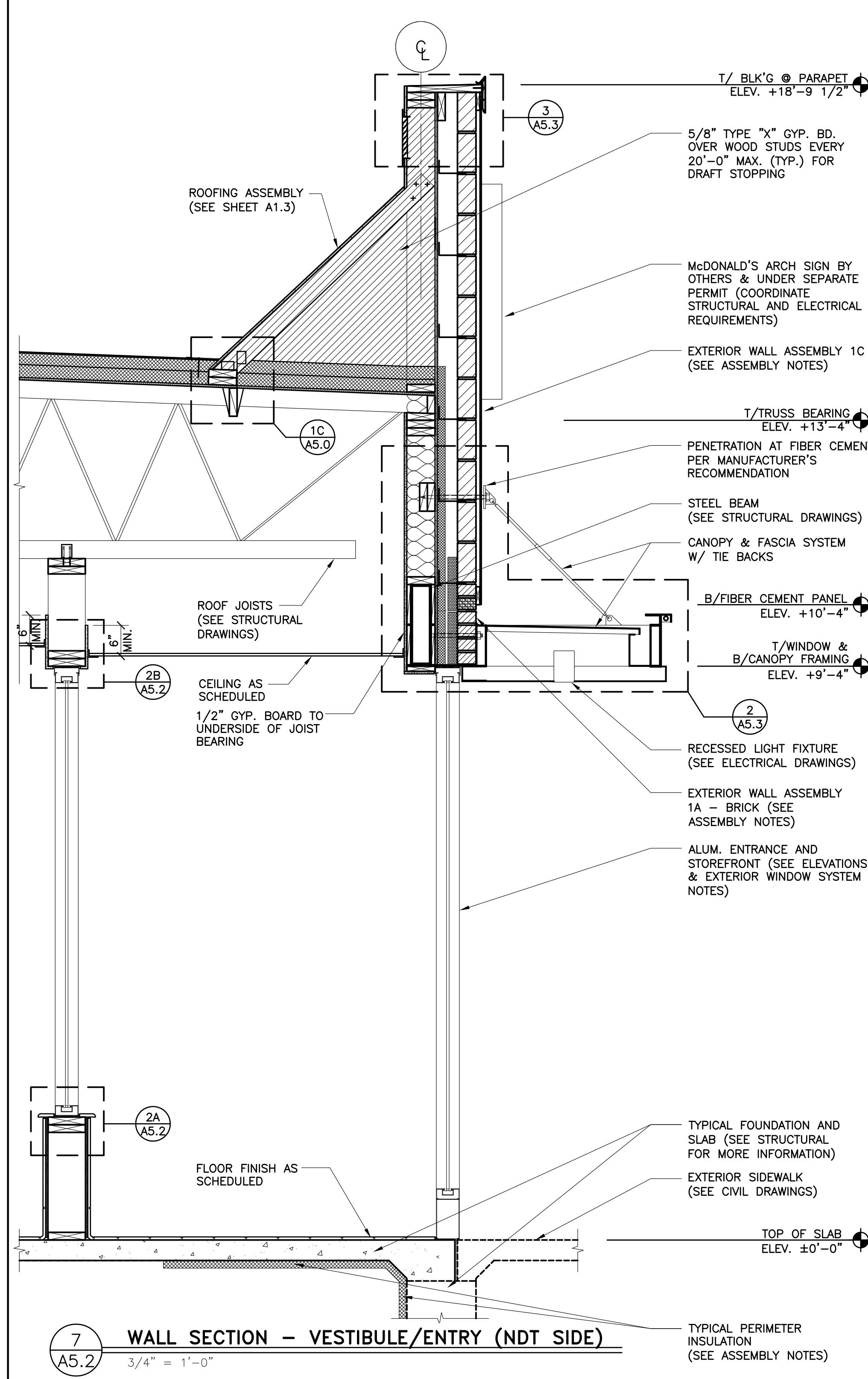
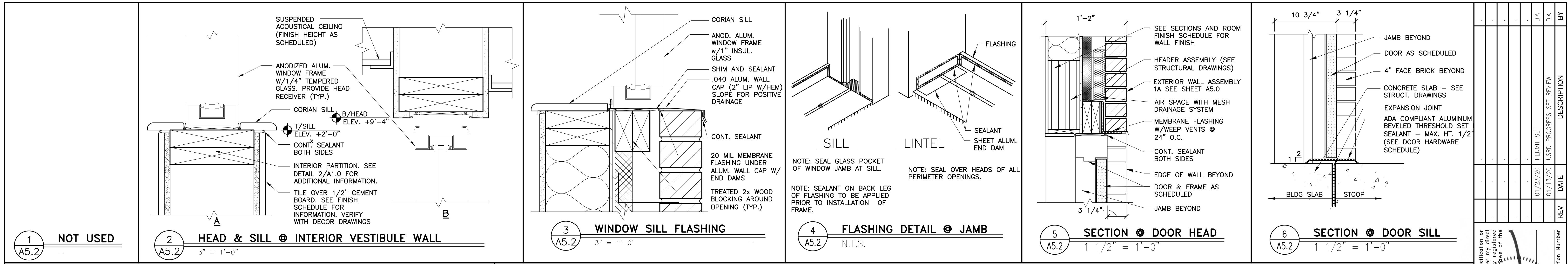
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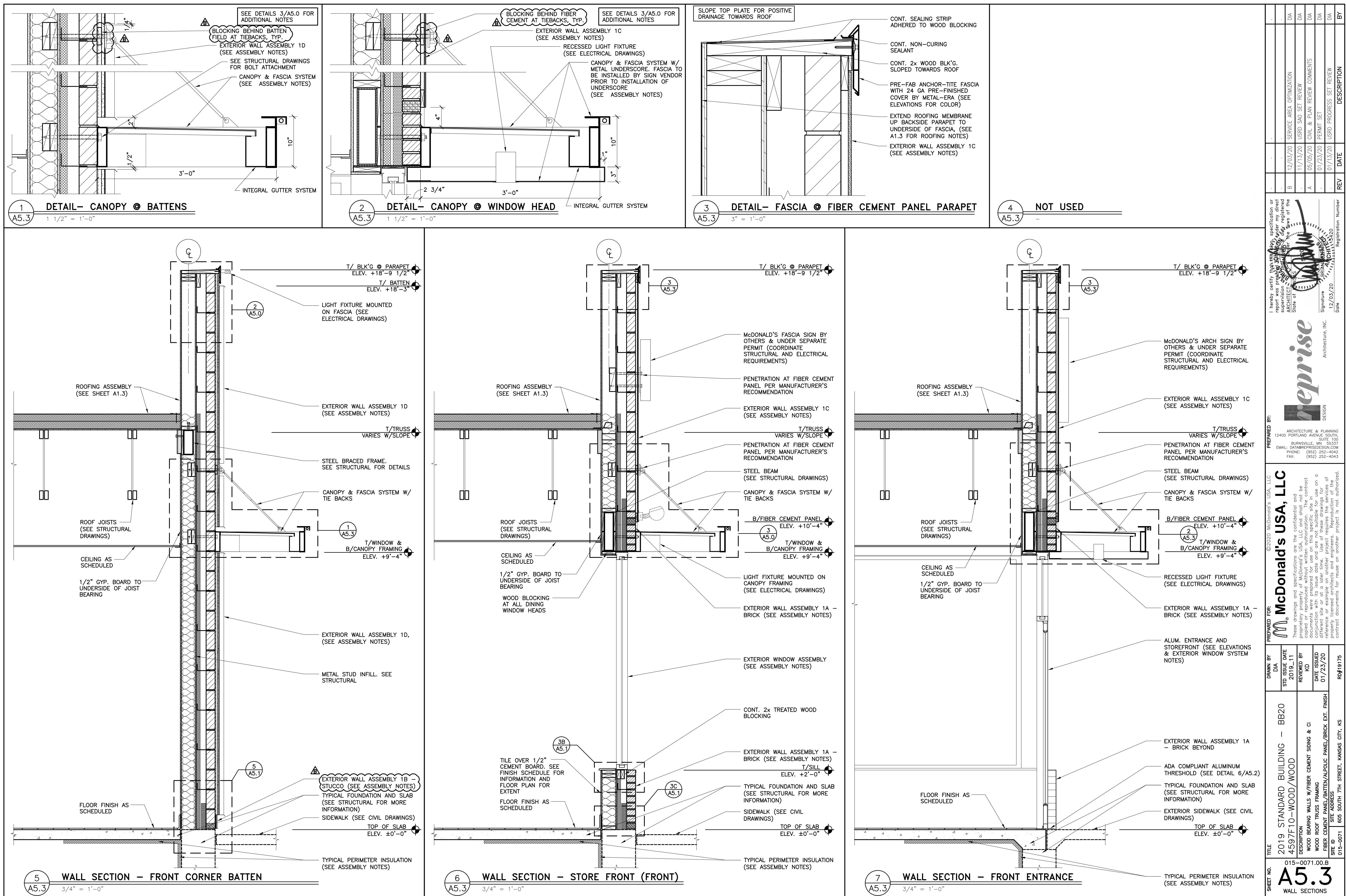


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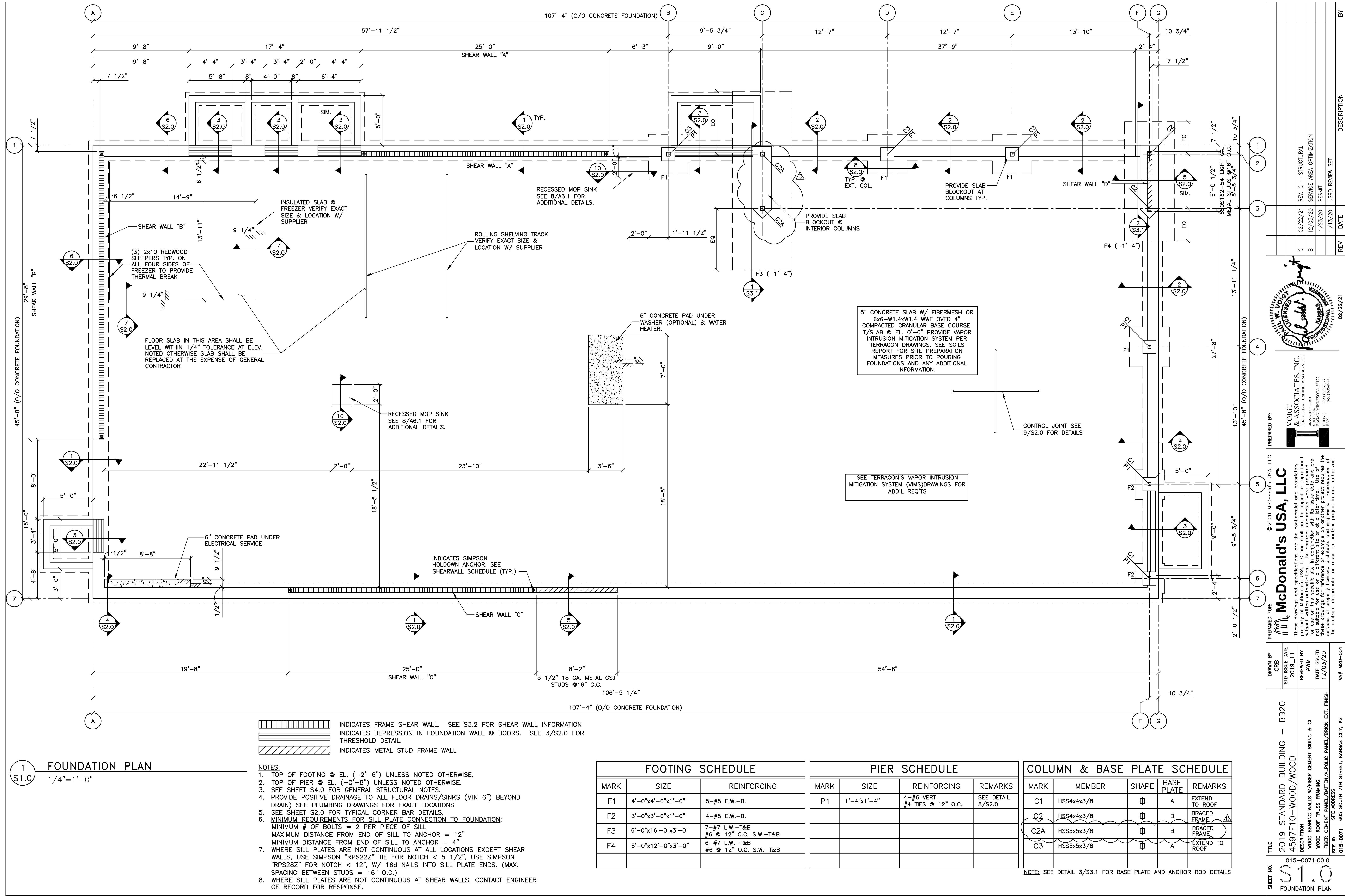
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| 99  | 99  | 99  | 99  | 99  | 99  | 99  |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 |

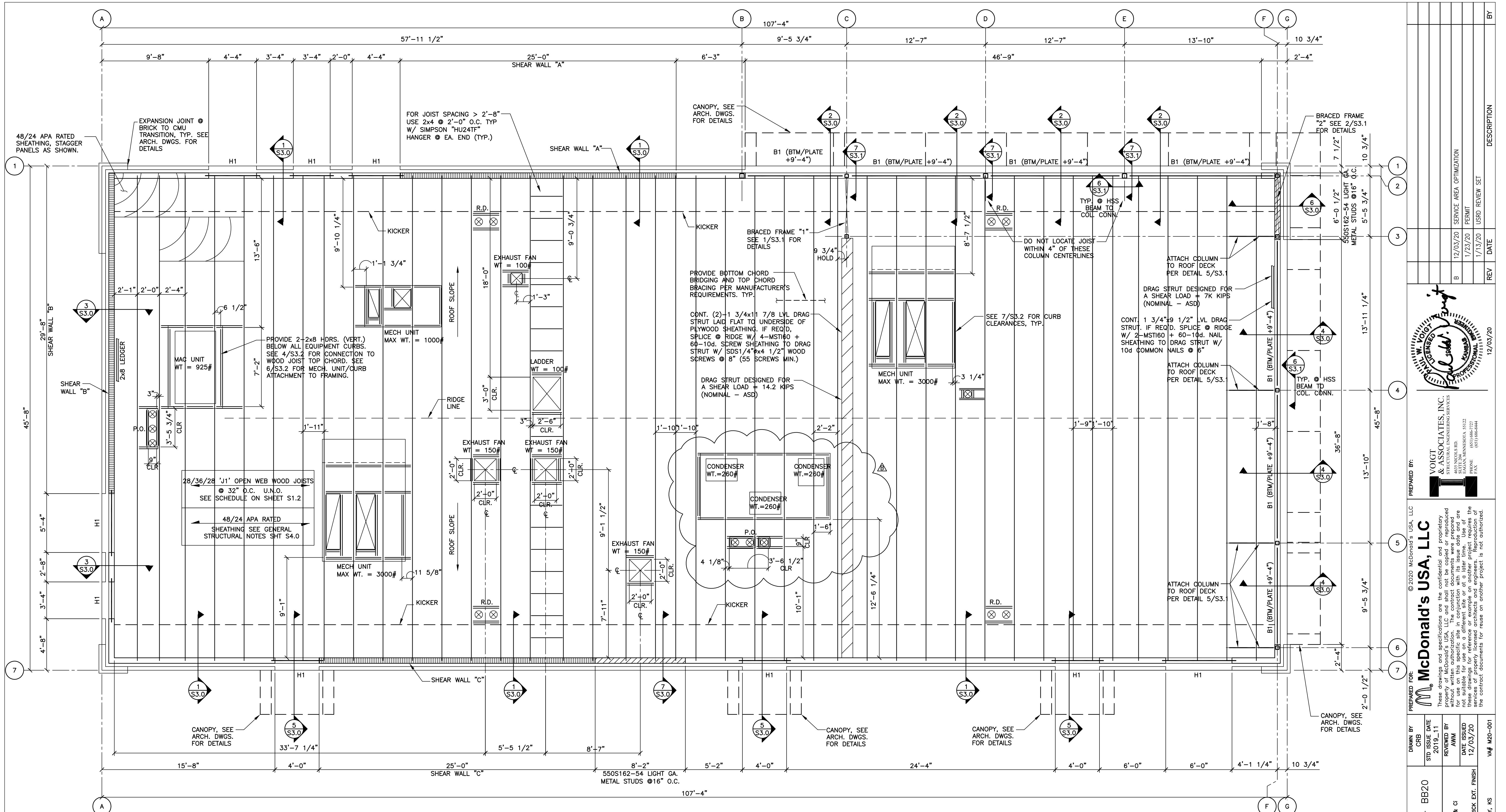
I hereby certify that the above specification or drawings were prepared under my direct supervision and direction by me or under the direction of the Architect(s).  
State of Minnesota  
Date 01/23/20  
Signature of Architect  
Registration Number  
Date 01/23/20  
Signature of Owner  
Registration Number  
Date 01/23/20











# 1 FRAMING PLAN

1/4" = 1' - 0

 INDICATES METAL STUD FRAME WALL

## NOTES:

- NOTES:

  1. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
  2. R.D.: ROOF DRAINS
  3. P.O.: ROOF CURB PORTAL OPENING – COORDINATE WITH MECHANICAL DRAWINGS.
  4. WHEN TOP PLATES ARE NOT CONTINUOUS, USE SIMPSON "RPS22" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS28" TIES FOR NOTCH < 12", W/ 16d NAILS INTO TOP PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
  5. TOP PLATE SPLICING SHALL BE MINIMUM LENGTH OF 48" WITH 2 ROWS (2 1/2" APART) OF 6-16d COMMON NAILS SPACED @ 2" ON CENTER (12 TOTAL).
  6. SEE 2/S4.0 FOR VENEER TIES REQUIREMENTS.
  7. SEE 5/S3.2 FOR SNOW DRIFT DIAGRAM.

| BEAM SCHEDULE |                                  |       |                |                      |
|---------------|----------------------------------|-------|----------------|----------------------|
| MARK          | MEMBER                           | SHAPE | SUPPORT        | REMARKS              |
| B1            | HSS16x4x1/4 LLV +<br>5/16" PLATE | I     | 1/2" END PLATE | SEE DETAIL<br>6/S3.1 |
|               |                                  |       |                |                      |
|               |                                  |       |                |                      |
|               |                                  |       |                |                      |
|               |                                  |       |                |                      |

| HEADER SCHEDULE |                                          |       |                                      |
|-----------------|------------------------------------------|-------|--------------------------------------|
| MARK            | MEMBER                                   | SHAPE | BEARING                              |
| H1              | 5 1/4"x9 1/2" LVL +<br>L5x3 1/2x5/16 LLV | XL    | SEE DETAIL 2/S3.2<br>6" @ BRG. ANGLE |
|                 |                                          |       |                                      |
|                 |                                          |       |                                      |
|                 |                                          |       |                                      |
|                 |                                          |       |                                      |

| JOIST SCHEDULE |                     |             |                       |
|----------------|---------------------|-------------|-----------------------|
| ARK            | LIVE/ROOF SNOW LOAD | DEPTH       | MANUFACTURER & SERIES |
| J1             | 20/20               | 28"/36"/28" | REDBUILT "RED-S"      |
|                |                     |             |                       |
|                |                     |             |                       |
|                |                     |             |                       |
|                |                     |             |                       |

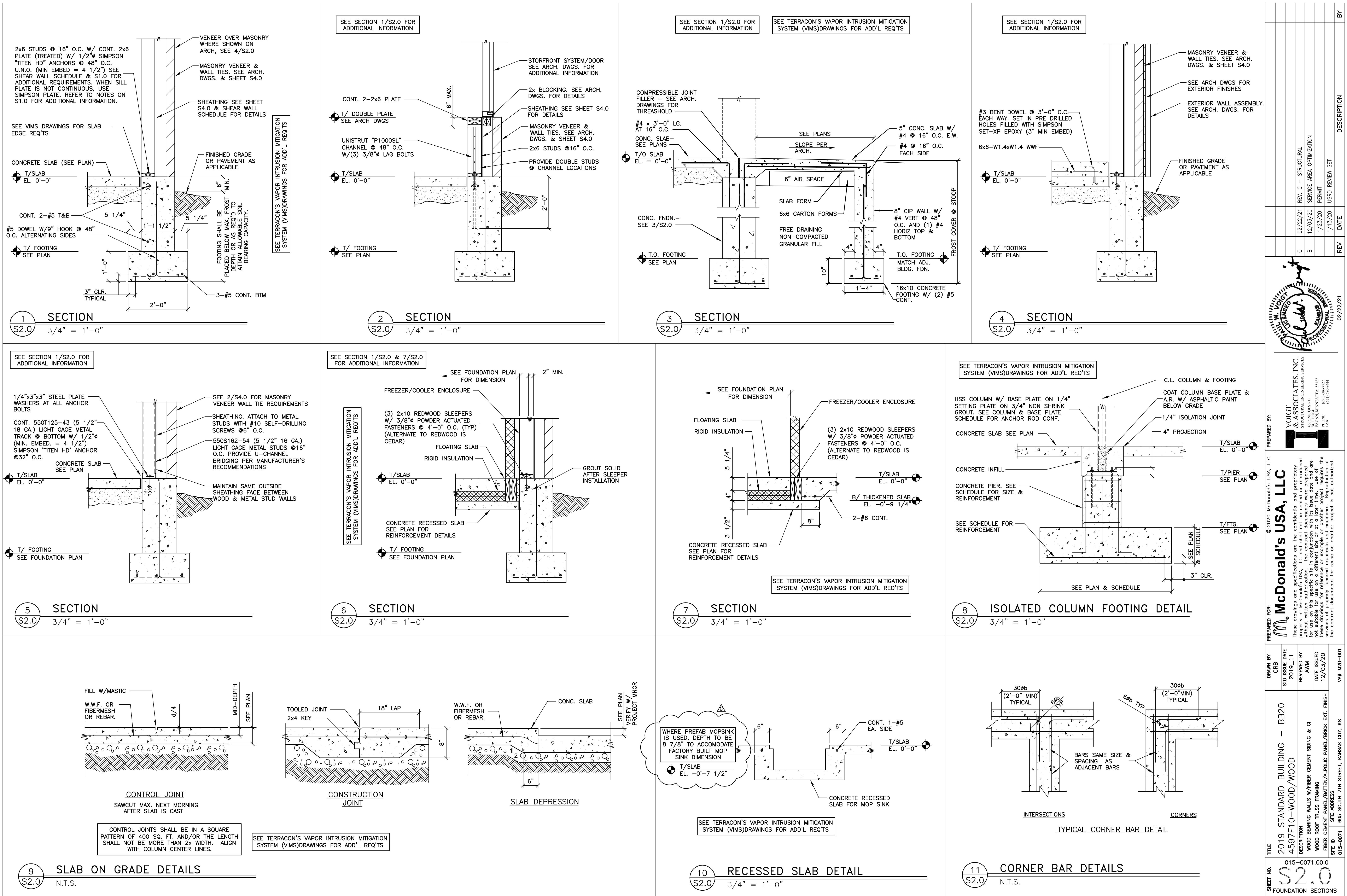
E: SEE DETAIL 4/S3.2 FOR JOIST DETAILS AND SUPPLIER INFORMATION

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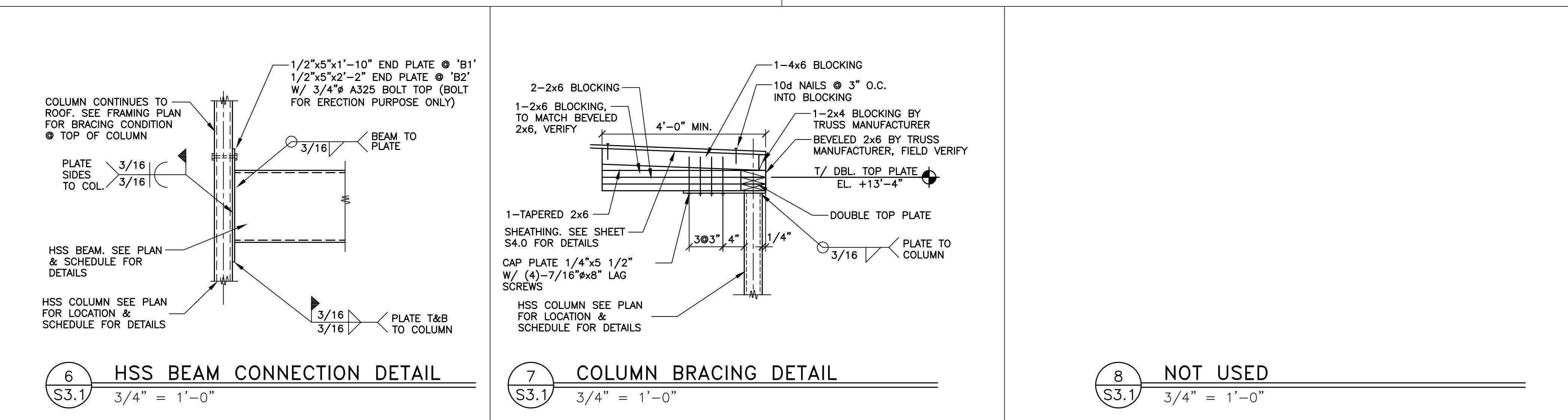
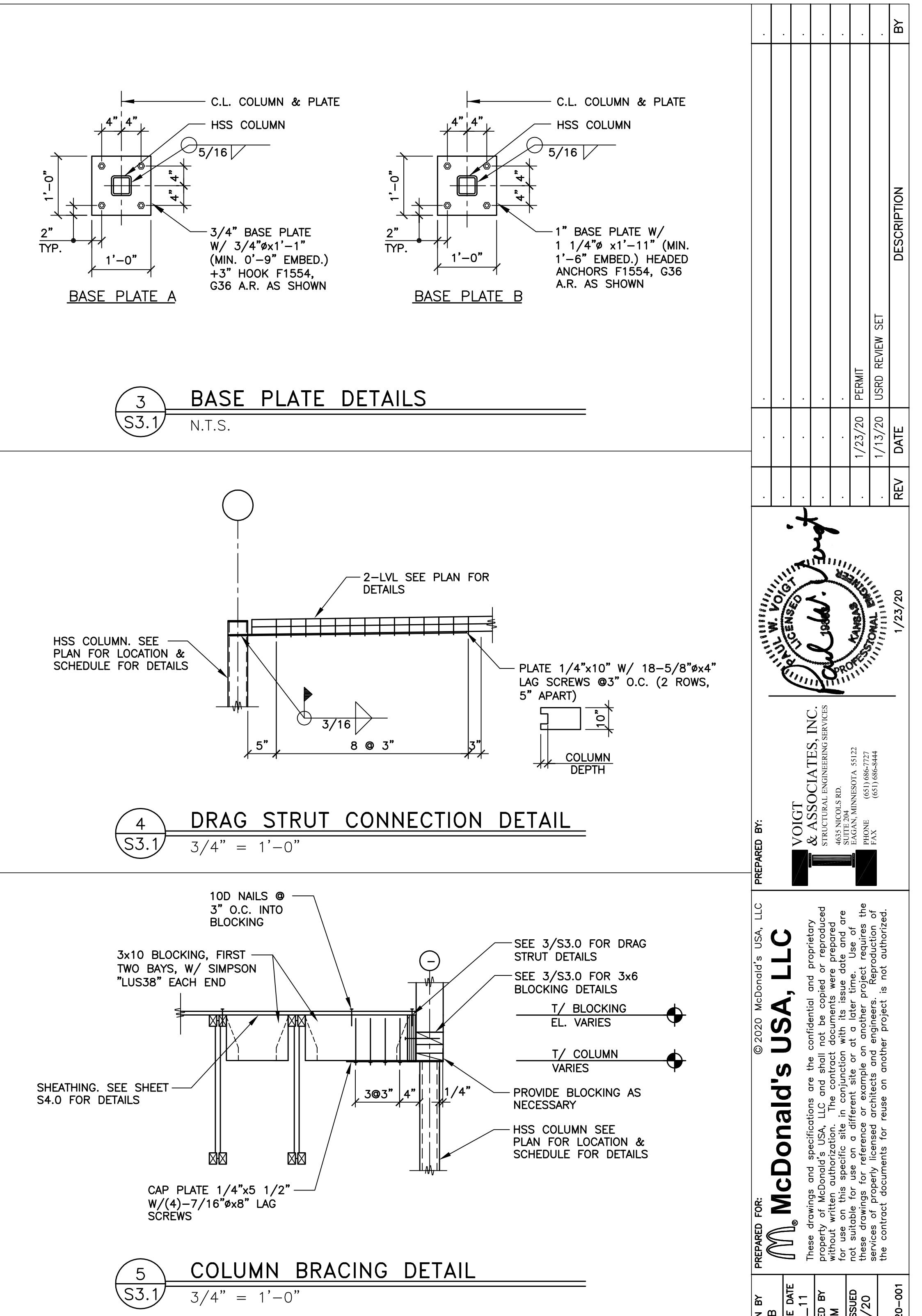
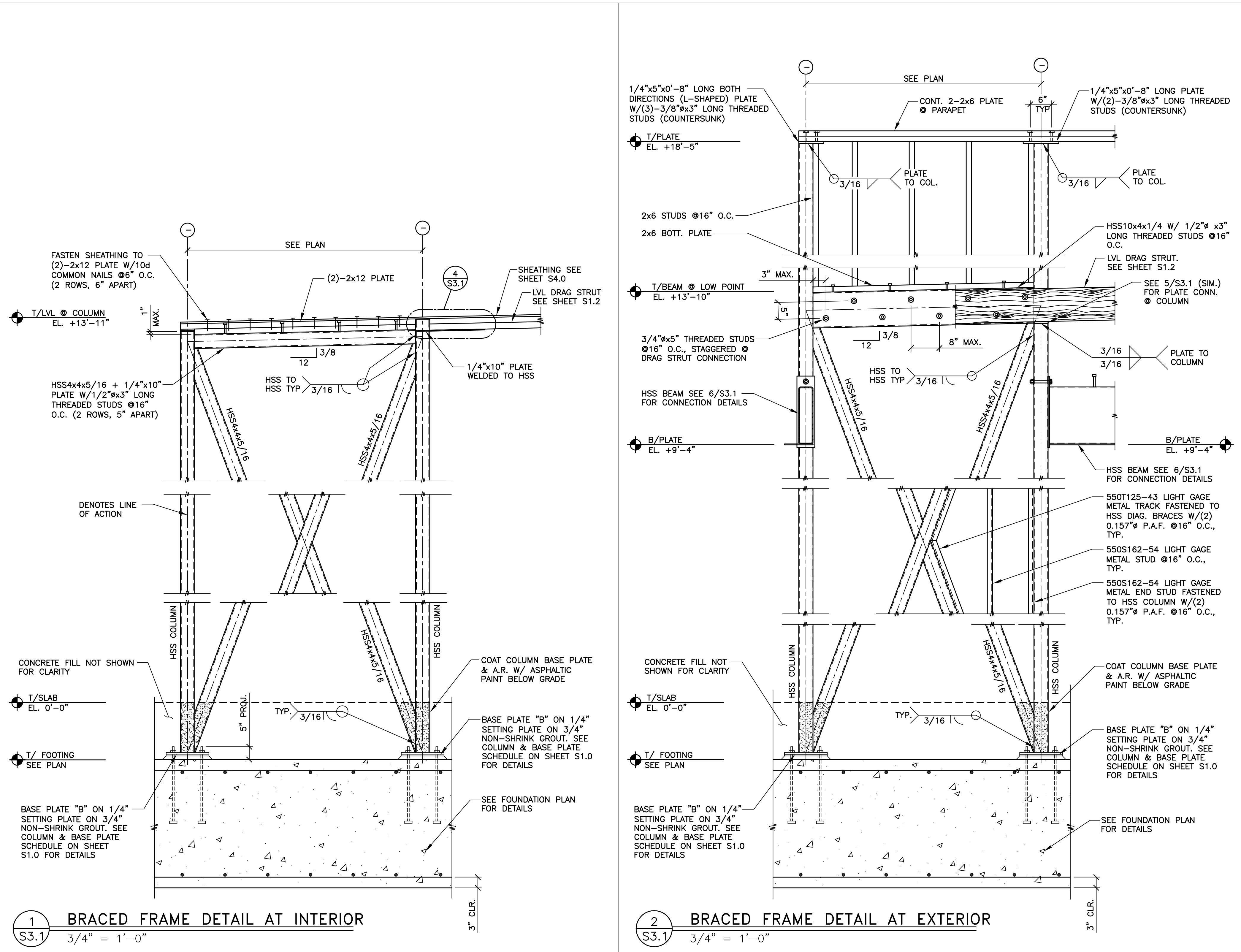
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| SHEET NO.     | TITLE                                                      | DRAWN BY       | PREPARED BY:                                                                                                                                         |
|---------------|------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 015-0071.00.0 | 2019 STANDARD BUILDING - BB20<br>459-7F10-WOOD/WOOD        | CRB            | VOIGHT & ASSOCIATES, INC.<br>STRUCTURAL ENGINEERING SERVICES<br>4035 NICOLIS RD.<br>ELLIPTICAL MINNESOTA A 58122<br>(651) 686-2722<br>(651) 686-4444 |
|               | DESCRIPTION                                                | STD ISSUE DATE | REVISED BY                                                                                                                                           |
| 1             | SECTION<br>S3.0                                            | 3/4" = 1'-0"   | 1/23/20 PERMIT                                                                                                                                       |
| 2             | SECTION<br>S3.0                                            | 3/4" = 1'-0"   | 1/13/20 USD/R/REVIEW SET                                                                                                                             |
| 3             | SECTION<br>S3.0                                            | 3/4" = 1'-0"   | 1/23/20 REV DATE                                                                                                                                     |
| 4             | SECTION<br>S3.0                                            | 3/4" = 1'-0"   | 1/23/20 BY                                                                                                                                           |
| 5             | SECTION<br>S3.0                                            | 3/4" = 1'-0"   | 1/23/20                                                                                                                                              |
| 6             | SECTION<br>S3.0                                            | 3/4" = 1'-0"   | 1/23/20                                                                                                                                              |
| 7             | SECTION<br>S3.0                                            | 3/4" = 1'-0"   | 1/23/20                                                                                                                                              |
| 1             | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION          | 3/4" = 1'-0"   | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION                                                                                                    |
| 2             | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION          | 3/4" = 1'-0"   | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION                                                                                                    |
| 3             | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION          | 3/4" = 1'-0"   | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION                                                                                                    |
| 4             | <br>SEE SECTION 2/S3.0 & 3/S3.0 FOR ADDITIONAL INFORMATION | 3/4" = 1'-0"   | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION                                                                                                    |
| 5             | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION          | 3/4" = 1'-0"   | <br>SEE SECTION 4/S3.0 FOR ADDITIONAL INFORMATION                                                                                                    |
| 6             | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION          | 3/4" = 1'-0"   | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION                                                                                                    |
| 7             | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION          | 3/4" = 1'-0"   | <br>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION                                                                                                    |



| SHEET NO.     | TITLE                                               | DRAWN BY | CRB | STD ISSUE DATE | 2019-11 | REVIEWED BY | AVW | DATE ISSUED | 1/23/20 | PERMIT |
|---------------|-----------------------------------------------------|----------|-----|----------------|---------|-------------|-----|-------------|---------|--------|
| 015-0071.00.0 | 2019 STANDARD BUILDING - BB20<br>459-7E10-WOOD/WOOD |          |     |                |         |             |     |             |         |        |

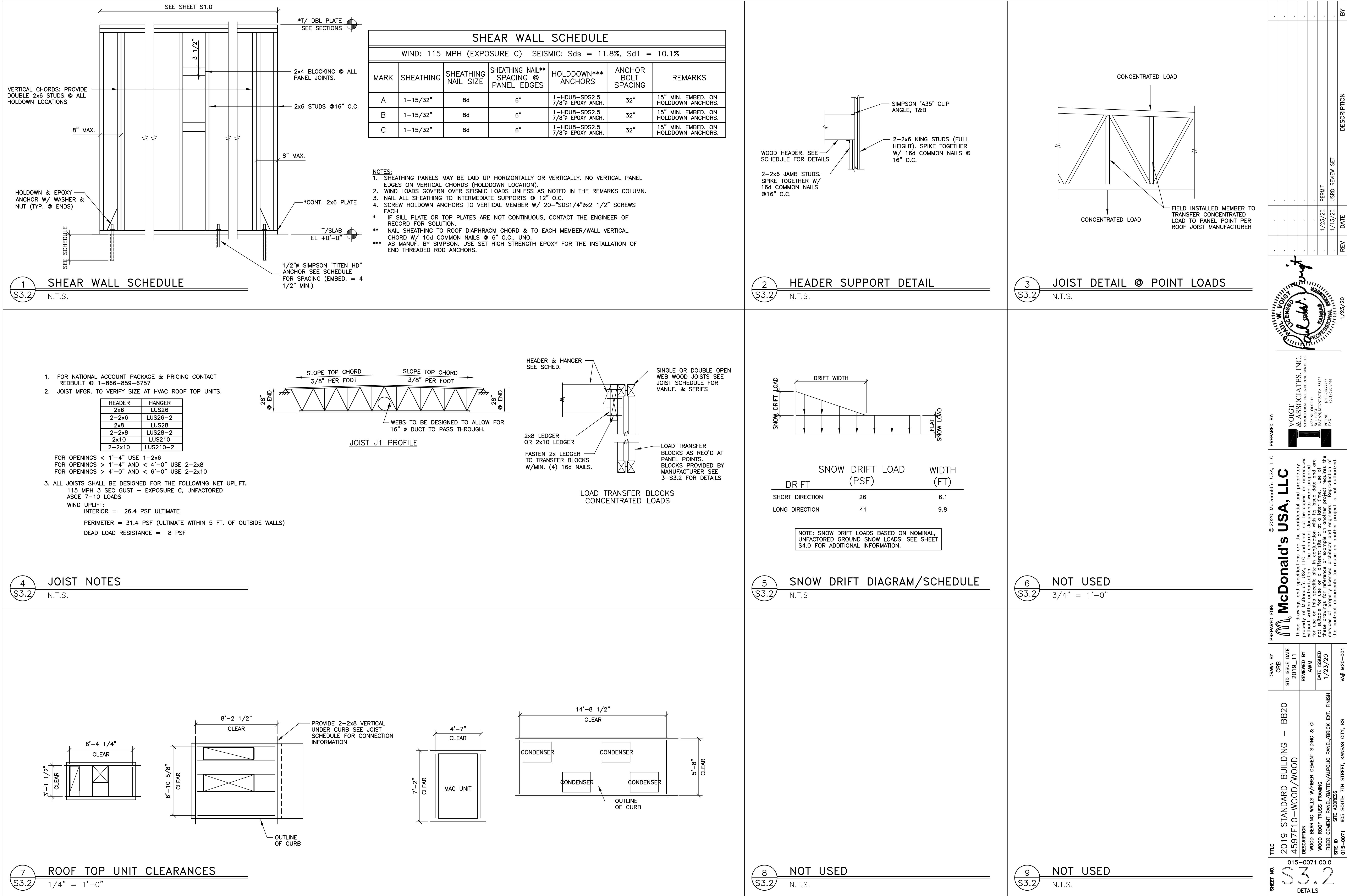
**McDonald's USA, LLC**

PREPARED BY: VOIGT & ASSOCIATES, INC.

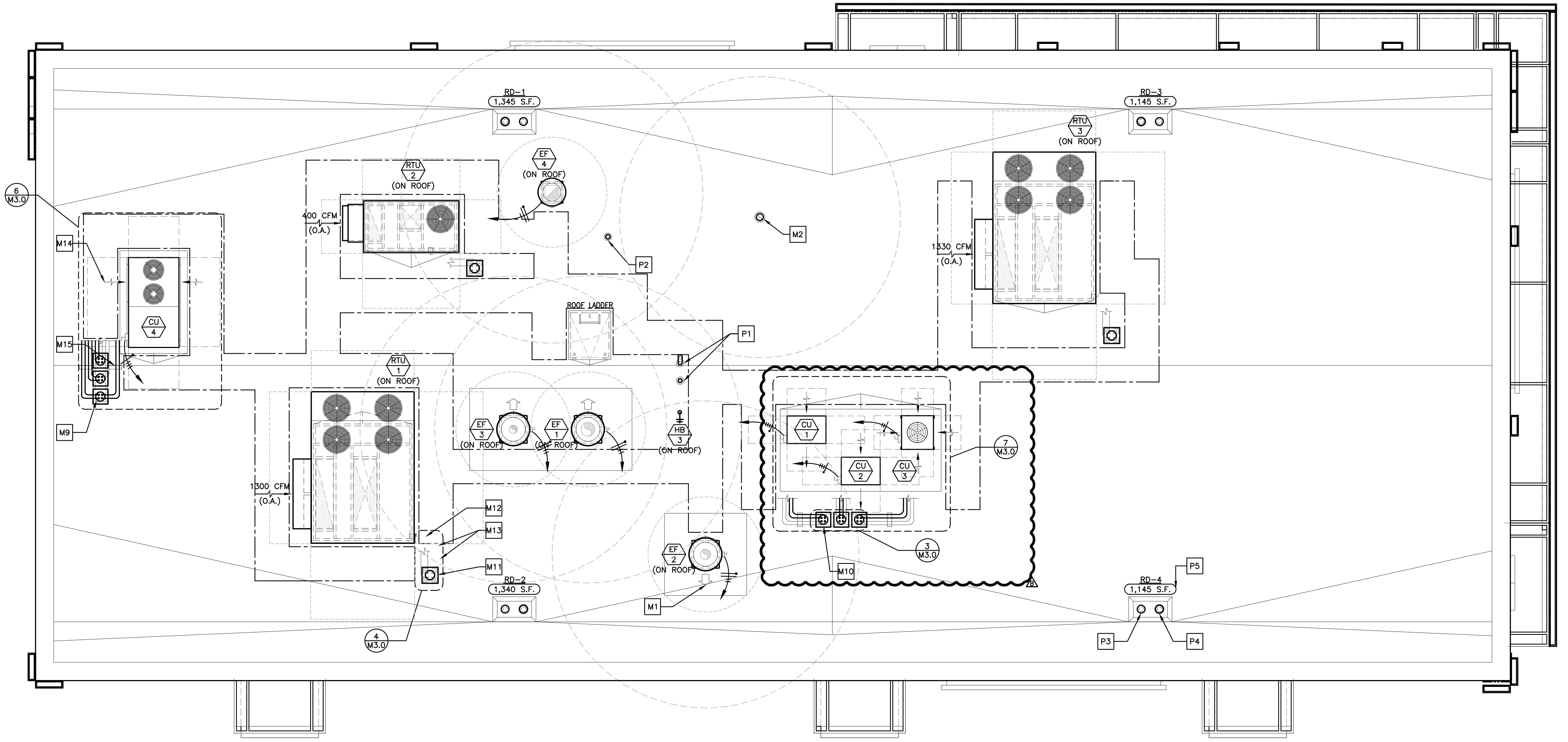
STRUCTURAL ENGINEERING SERVICES

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#### DRAWING NOTES

- ROOFTOP EQUIPMENT LOCATIONS SHOWN ARE GENERAL. ACTUAL LOCATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS.
- ROOF OPENINGS FOR ROOFTOP UNITS AND EXHAUST FANS SHALL BE COORDINATED WITH THE MANUFACTURER.
- ROOF OPENINGS FOR PIPE PORTALS SHALL ONLY BE LARGE ENOUGH TO ALLOW PIPE AND CONDUIT PENETRATIONS. PIPE PORTAL CURB SHALL BE FILLED WITH AS MUCH BATT INSULATION AS POSSIBLE.
- PRIOR TO INSTALLING THE TOP OF THE EQUIPMENT PLATFORM, INSIDE OF THE PLATFORM SHALL BE INSULATED WITH AS MUCH BATT INSULATION AS POSSIBLE.

DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, OR SHOWN ON DRAWINGS BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS. IF NOT OTHERWISE DIRECTED, INSTALLATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE WORK DESCRIBED IN THE SPECIFICATIONS IS IN CONFLICT WITH THE WORK SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL SUPPLY THE GREATER QUANTITY, QUALITY AND COST VIA THE BID AND CONTACT THE ENGINEER FOR CLARIFICATION ON DIRECTION PRIOR TO INSTALLATION.

PRIOR TO BD, THE CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND KITCHEN EQUIPMENT DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL RELEVANT WORK IN THE ENTIRE SET OF DOCUMENTS AND REPORT ALL DISCREPANCIES BETWEEN THESE DRAWINGS TO THE ENGINEER PRIOR TO BIDDING FOR CLARIFICATION. IF DISCREPANCIES REMAIN UNRESOLVED DUE TO A SHORT TIME FRAME, THE CONTRACTOR SHALL INCLUDE THE MOST WORK AND THE HIGHER COSTS IN THE BID. SOLUTIONS TO UNREPORTED DISCREPANCIES WILL BE DETERMINED BY THE ARCHITECT/ENGINEER, WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.

#### KEYED NOTES

M1 ARROW INDICATES DIRECTION OF EXHAUST FAN HINGE SWING (TYP.)  
 M2 6"Ø ALUMINUM EXHAUST DUCT FROM EXHAUST FAN (EF-5). PROVIDE PORTALS PLUS PLASTI-FLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION.

M3 NOT USED  
 M4 NOT USED  
 M5 NOT USED  
 M6 NOT USED  
 M7 NOT USED  
 M8 NOT USED  
 M9 ROOF PIPE PORTAL FOR MAC UNIT  
 M10 ROOF PIPE PORTAL FOR CONDENSING UNITS  
 M11 ROOF PIPE PORTAL FOR ROOFTOP UNITS (TYP. 3 PLACES)  
 M12 GAS PIPING FROM ROOF PORTAL TO ROOFTOP UNIT SHALL BE COATED WITH A CORROSION RESISTANT PAINT (SEE GAS PIPING NOTES)  
 M13 GAS PRESSURE REGULATOR AND SHUT-OFF VALVE (TYP.)  
 M14 ARROW INDICATES DIRECTION OF AIRFLOW FOR CONDENSING OR ROOFTOP UNIT AIR INTAKE (TYP.)  
 M15 REFRIGERANT PIPING SUPPORT AS REQUIRED. PROVIDE ROOFTOP BLOX MODEL RTB-01 (OR EQUAL) AND ALL NECESSARY ACCESSORIES FOR PROPER PIPE AND CONDUIT SUPPORT. PROVIDE GALVANIZED PIPE SHIELD TO PROTECT INSULATION AT ALL SUPPORTS.

P1 COMBUSTION AIR INTAKE AND EXHAUST VENT FOR SEALED COMBUSTION WATER HEATER (SEE PLUMBING DRAWINGS). PROVIDE PORTALS PLUS PLASTIFLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION.  
 P2 PLUMBING VENT THROUGH ROOF (SEE PLUMBING DRAWINGS). PROVIDE PORTALS PLUS PLASTI-FLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION.

P3 PRIMARY ROOF DRAIN WITH DOME STRAINER (SEE PLUMBING DRAWINGS)

P4 OVERFLOW ROOF DRAIN WITH DOME STRAINER (SEE PLUMBING DRAWINGS)

P5 AREA OF ROOF SERVED BY ROOF DRAIN (TYP.).

#### PIPE PORTAL SCHEDULE

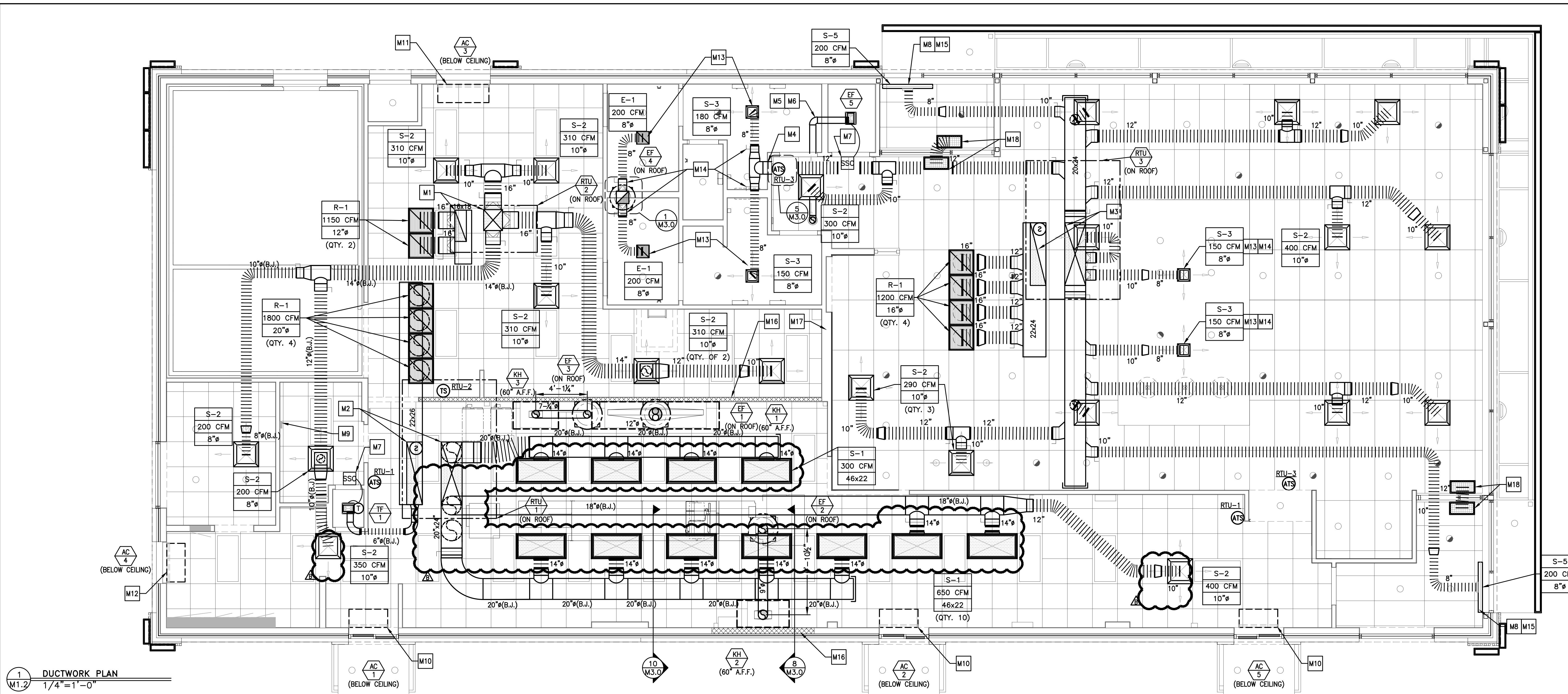
| MANUFACTURER | CURB DIMENSIONS | CURB TYPE | CAP TYPE (QTY) | SERVES              | MODE                                                | FAN  | COOLING | HEATING |
|--------------|-----------------|-----------|----------------|---------------------|-----------------------------------------------------|------|---------|---------|
| RPS          | 12"x12"x11"H    | RC-2A     | N18 (1)        | RTU-1 THROUGH RTU-3 | OCCUPIED                                            | ON   | 75°F    | 70°F    |
| RPS          | 43"x12"x13"H    | RC-2A     | N18 (3)        | CU-4                | UNOCCUPIED                                          | AUTO | 90°F    | 55°F    |
| RPS          | 27"x12"x13"H    | RC-2A     | N18 (2)        | CU-1 THROUGH CU-3   | HUMIDITY SETPOINT (FOR DEHUMIDIFICATION UNITS ONLY) | 60%  |         |         |

DEMAND CONTROL VENTILATION  
CO2 (FOR DCV)  
MINIMUM 400 PPM  
MAXIMUM 1000 PPM

#### SEQUENCE OF OPERATION

- RTU-1, RTU-2 & RTU-3:  
 1. OCCUPIED MODE SHALL BEGIN AS FOLLOWS:  
     • RTU-1: 1.5 HOURS BEFORE OPEN  
     • RTU-2: 1 HOUR BEFORE OPEN  
     • RTU-3: 30 MINUTES BEFORE OPEN  
 2. ROOFTOP UNIT FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE  
 3. ECONOMIZER SHALL BE OPEN DURING OCCUPIED MODE (OUTDOOR AIR THROUGH ROOFTOP UNITS SERVES AS MAKE-UP AIR FOR THE KITCHEN EXHAUST SYSTEM) – REFER TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS.  
 4. UNOCCUPIED MODE SHALL BEGIN ONE (1) HOUR AFTER STORE CLOSES  
 5. DURING UNOCCUPIED MODE, ECONOMIZER IS CLOSED AND HEATING, COOLING AND FAN OPERATE IN AUTO MODE (ON DEMAND)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |                  |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------|-------------------|
| SHEET NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TITLE                                              | DRAWN BY         | REVIEWED BY       |
| 015-0071.00.B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2019 STANDARD BUILDING - BB20<br>4597F10-WOOD/WOOD | M.J.W<br>2019-11 | W.L.W<br>05/05/20 |
| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    | STD ISSUE DATE   | PERMIT SET        |
| WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    | 01/23/20         | 01/23/20          |
| SITE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SITE ADDRESS                                       | REV DATE         |                   |
| 015-0071                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 605 SOUTH 7TH STREET, KANSAS CITY, KS              | 12/03/20         |                   |
| emmanuelson-podas consulting engineers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |                  |                   |
| 3801.0037                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |                  |                   |
| MICHAEL WEBER<br>LICENSED<br>17648<br>KANSAS<br>PROFESSIONAL ENGINEER<br>12/03/20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |                  |                   |
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### DRAWING NOTES

- ALL DUCTWORK SHALL BE RUN BETWEEN OR THROUGH THE JOISTS UNLESS NOTED OTHERWISE. DUCTWORK DESIGNATED WITH (B.J.) SHALL BE RUN BELOW THE JOISTS.
- DUCT SIZES SHOWN ARE INTERNAL FREE AREA DIMENSIONS UNLESS NOTED OTHERWISE.
- ALL SHEET METAL DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION IS NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES FOR INSULATION REQUIREMENTS.
- CARBON STEEL KITCHEN EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES AND DETAILS FOR INSULATION REQUIREMENTS.
- RETURN AIRFLOW VOLUME SHOWN ON PLAN IS FOR DUCTWORK SIZING PURPOSES WHEN THE UNIT IS IN RECIRCULATION (UNOCCUPIED) MODE.
- DIFFUSERS IN DINING ROOM ARE SPECIFIC TO THE DECOR PLAN SHOWN. DIFFERENT CEILING LAYOUTS MAY REQUIRE A DIFFERENT DIFFUSER TYPES, QUANTITIES, LOCATIONS AND FINISHES/COLORS.

### KEYED NOTES

- M1 18x20 SUPPLY AND 11x30 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-2)
- M2 20x60 SUPPLY AND 15x60 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-3)
- M3 20x60 SUPPLY AND 15x60 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-3)
- M4 PROVIDE SHEET METAL DUCT AT ALL DRAFTSTOP WALL PENETRATIONS (TYP.) (WHERE REQUIRED BY CODE.)
- M5 6"Ø ALUMINUM DUCT FROM EXHAUST FAN UP THROUGH ROOF
- M6 EXTERNALLY INSULATE EXHAUST DUCT FROM FAN TO ROOF PENETRATION
- M7 STEADY STATE SPEED CONTROLLER FOR CEILING MOUNTED EXHAUST FAN. STEADY STATE SPEED CONTROLLER SHALL BE INSTALLED OVER SUSPENDED CEILING FOR ACCESS. DO NOT INSTALL OVER AREAS WITH DRYWALL CEILINGS.
- M8 SET DIFFUSER (S-5) FOR VERTICAL AIR THROW PATTERN (TYP.)
- M9 BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
- M10 MOUNT AIR CURTAIN TIGHT TO CEILING
- M11 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT AT TOP OF DOOR FRAME
- M12 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT ABOVE DOOR FRAME AND TOP OF SWITCHGEAR TO MEET 3'-0"
- M13 MINIMUM SWITCHGEAR'S CLEARANCE REQUIREMENT
- M14 FOR DIFFUSERS INSTALLED IN DRYWALL CEILINGS, INSTALL HIGH-EFFICIENCY TAKE-OFFS WITH VOLUME DAMPER IN FULL-OPEN POSITION TO FACILITATE BALANCING AT FACE OF DIFFUSER.
- M15 GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL T-BAR FRAME TO PROPERLY LOCATE DIFFUSER AS SHOWN. AIR STREAM FROM DIFFUSER SHALL COVER ENTIRE DOOR OPENING.
- M16 NONCOMBUSTIBLE WALL CONSTRUCTION BEHIND TYPE I KITCHEN HOODS. REFER TO SHEET A1.0 FOR MORE INFORMATION.
- M17 CONTRACTOR TO PROVIDE LOUVRED RETURN AIR BEHIND EACH MENU BOARD.

M18 PROVIDE TITUS 50F OR EQUAL, 24x12 OPEN CEILING GRATE PAINTED TO MATCH CEILING. PROVIDE PLASTER FRAMING FOR DRYWALL CEILING APPLICATIONS.

2015 IMC SECTION 403.3 - VENTILATION SCHEDULE

| UNIT        | AREA SERVED        | AREA FT <sup>2</sup> | CFM/PERSON | CFM/FT <sup>3</sup> | PEOPLE OR PEOPLE/1000 FT <sup>3</sup> | UNCORRECTED REQUIRED O/A CFM | Ez* | REQUIRED O/A CFM (Vot)** | ACTUAL O/A CFM | REQUIRED EXHAUST CFM | ACTUAL EXHAUST CFM |
|-------------|--------------------|----------------------|------------|---------------------|---------------------------------------|------------------------------|-----|--------------------------|----------------|----------------------|--------------------|
| RTU-1       | PRESENTER          | 352                  | 5          | 0.06                | 4                                     | 42                           | 0.8 | 0.90                     |                |                      |                    |
|             | KITCHEN            | 682                  | 7.5        | 0.18                | 18                                    |                              | 0.8 |                          |                |                      |                    |
| RTU-2       | SUPPORT            | 574                  | 0          | 0.12                | 0                                     | 69                           | 0.8 | 0.90                     | -              | -                    |                    |
|             | MANAGER'S OFFICE   | 59                   | 5          | 0.06                | 1                                     | 9                            | 0.8 |                          | -              | -                    |                    |
|             | CREW ROOM          | 99                   | 5          | 0.06                | 5                                     | 31                           | 0.8 |                          | -              | -                    |                    |
|             | ORDER              | 140                  | 5          | 0.06                | 7                                     | 43                           | 0.8 |                          | -              | -                    |                    |
| RTU-3       | DINING             | 1759                 | 7.5        | 0.18                | 95                                    | 1030                         | 0.8 | 0.91                     | 151            | 168                  | 400                |
|             | PRESENTER          | 0                    | 5          | 0.06                | 0                                     | 0                            | 0.8 |                          | -              | -                    |                    |
|             | VESTIBULE 1        | 90                   | 0          | 0.06                | 0                                     | 5                            | 0.8 |                          | -              | -                    |                    |
|             | VESTIBULE 2        | 53                   | 0          | 0.06                | 0                                     | 3                            | 0.8 |                          | -              | -                    |                    |
|             | WOMEN'S            | 136                  | 0          | 0.06                | 0                                     | 8                            | 0.8 |                          | -              | -                    |                    |
|             | MEN'S              | 122                  | 0          | 0.06                | 0                                     | 7                            | 0.8 |                          | -              | -                    |                    |
| RTU-4       | PLAYPLACE          | 0                    | 7.5        | 0.18                | 0                                     | 1054                         |     | 0.96                     | 1080           | 1330                 |                    |
|             | EATERY             | 682                  | -          | 0.7                 | -                                     |                              | 0.8 |                          | 0              | 0                    |                    |
| EF-1, 2 & 3 | KITCHEN            | 682                  | -          | 0.7                 | -                                     | -                            | -   | -                        | -              | 477                  | 2405               |
| EF-4        | WOMEN'S            | 136                  | -          | -                   | -                                     | -                            | -   | -                        | 100            | 200                  |                    |
| EF-6        | MEN'S              | 122                  | -          | -                   | -                                     | -                            | -   | -                        | 100            | 200                  |                    |
|             | PLAYPLACE (UNISEX) | 0                    | -          | -                   | -                                     | -                            | -   | -                        | 0              | 0                    |                    |

\* Zone Air Distribution Effectiveness Based on ASHRAE 62.1 Table 6.2 for Ceiling Supply of Warm Air 15° F or More Above Space Temperature and Ceiling Return (IMC Table 403.3.1.2)

\*\* Ventilation System Efficiency Based on ASHRAE 62.1 Table 6.3 and Section 6.2.5 (IMC Section 403.3.2. MZ)

\*\*\* Corrected Required O/A Intake Required for System Calculated Based on ASHRAE 62.1 Section 6.2 (IMC Section 403.3)

| TITLE                | 2019 STANDARD BUILDING - BB20 | STD ISSUE DATE  | 2019-11                               | DRAWN BY | M.J.W. | REVIEWED BY | W.L.W. | PREPARED FOR:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | McDonald's USA, LLC |
|----------------------|-------------------------------|-----------------|---------------------------------------|----------|--------|-------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| DESCRIPTION          | 4597F10-WOOD/WOOD             | DATE ISSUED     | 01-23-20                              | BY       |        | 12/03/20    |        | These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced in whole or in part without the express written consent of the owner. These drawings and specifications are intended for use on this specific site in conjunction with the issued set and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the control documents for reuse on another project is not authorized. |                     |
| SHEET NO.            | 015-0071.00.B                 | SITE ADDRESS    | 605 SOUTH 7TH STREET, KANSAS CITY, KS | REV      | 1975   |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
|                      |                               |                 |                                       |          |        |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
| HEATING SCHEDULE     | INPUT (kW)                    | OUTPUT (BTU/HR) | REQUIRED HEAT (BTU/HR)                |          |        |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
| EQUIPMENT            |                               |                 |                                       |          |        |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
| ROOFTOP UNIT (RTU-1) | 39                            | 133,107         | 110,956                               |          |        |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
| ROOFTOP UNIT (RTU-2) | 13                            | 44,369          | 42,383                                |          |        |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
| ROOFTOP UNIT (RTU-3) | 52                            | 177,476         | 140,516                               |          |        |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
| TOTALS               | 104                           | 354,952         | 293,855                               |          |        |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |

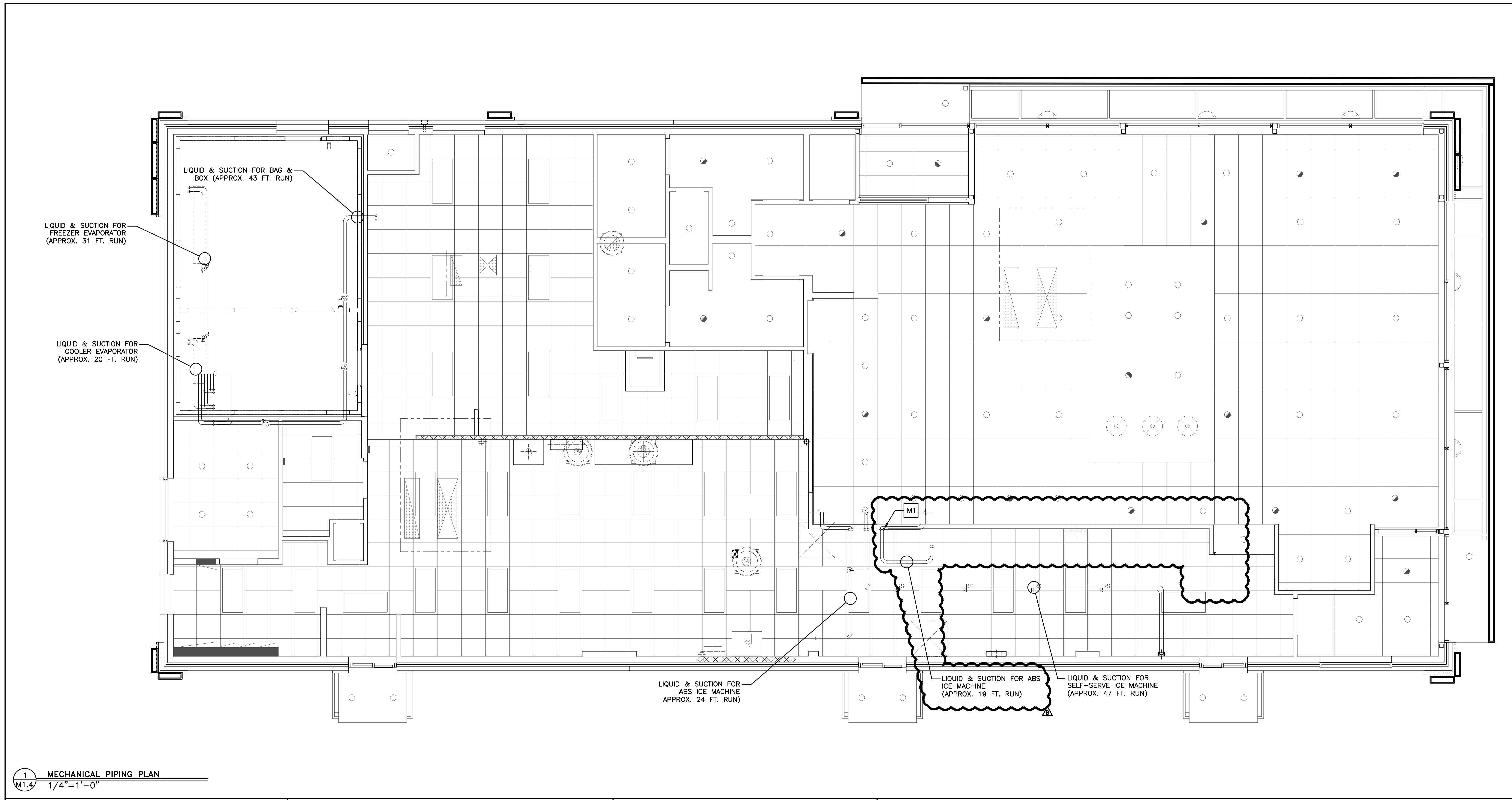
M 1.2

DUCTWORK PLAN

emanuelson-podas  
consulting engineers

3801.0037  
MICHAEL WEBER  
LICENSED  
17648  
KANSAS  
PROFESSIONAL ENGINEER  
12/03/20

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M1.4 MECHANICAL PIPING PLAN  
1/4"=1'-0"

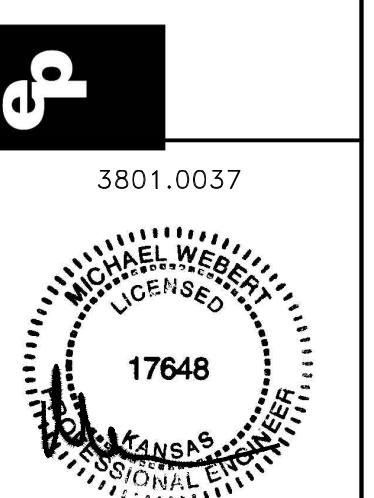
#### DRAWING NOTES

1. GAS PIPING LENGTHS ARE APPROXIMATE AND ARE SHOWN FOR SIZING PURPOSES ONLY.
2. REFRIGERANT PIPE SIZES SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

#### KEYED NOTES

- M1 REFRIGERANT LIQUID AND SUCTION LINES UP THROUGH ROOF TO CONDENSING UNITS (TYP. 6 PLACES - SEE DETAIL 3 ON DRAWING M3.0)

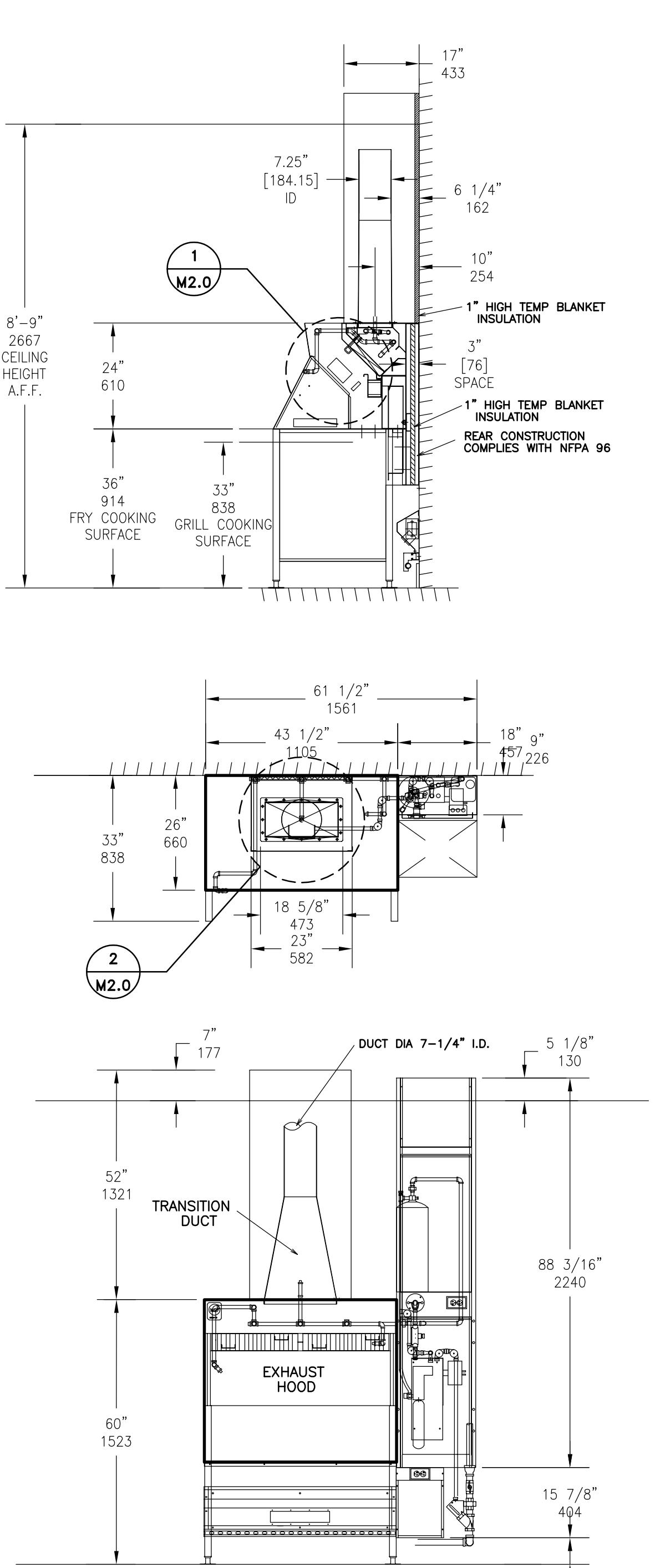
| SHEET NO.     | TITLE                                              | PREPARED BY:      | REVIEWED BY:       | DATE ISSUED: | PERIODIC REVIEW: | DESCRIPTION:                          | BY:         |
|---------------|----------------------------------------------------|-------------------|--------------------|--------------|------------------|---------------------------------------|-------------|
| 015-0071.00.B | 2019 STANDARD BUILDING - BB20<br>4597F10-WOOD/WOOD | M.J.W.<br>2019-11 | W.L.W.<br>12/03/20 |              |                  | SERVICE AREA OPTIMIZATION             |             |
|               |                                                    |                   |                    |              |                  | 11/13/20 USD & SA SET REVIEW          |             |
|               |                                                    |                   |                    |              |                  | 05/05/20 CIVIL & PLAN REVIEW COMMENTS |             |
|               |                                                    |                   |                    |              |                  | 01/23/20 PERMIT SET                   |             |
|               |                                                    |                   |                    |              |                  | 01/13/20 PROGRESS SET REVIEW          |             |
|               |                                                    |                   |                    |              |                  | REV DATE                              | DESCRIPTION |



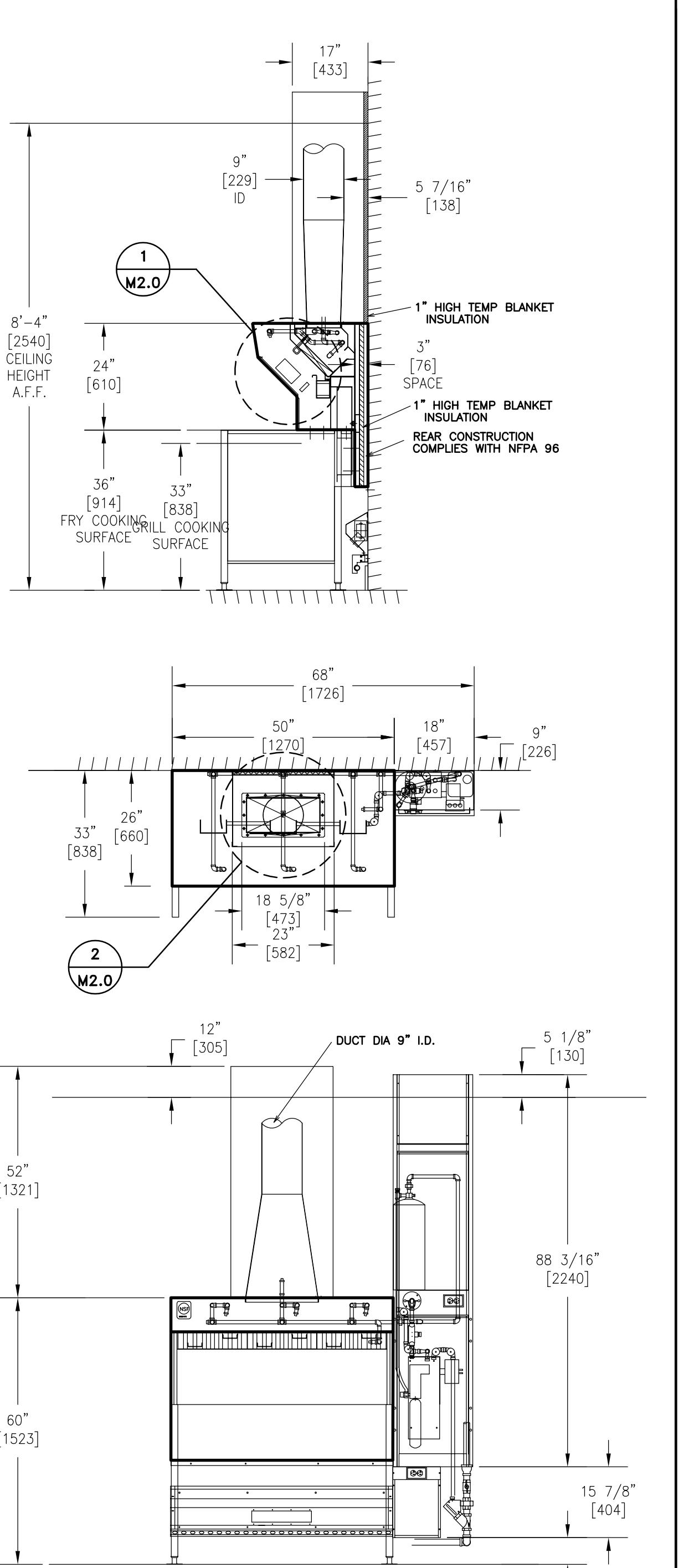
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STATE  
CIVIL ENGINEER  
12/03/20

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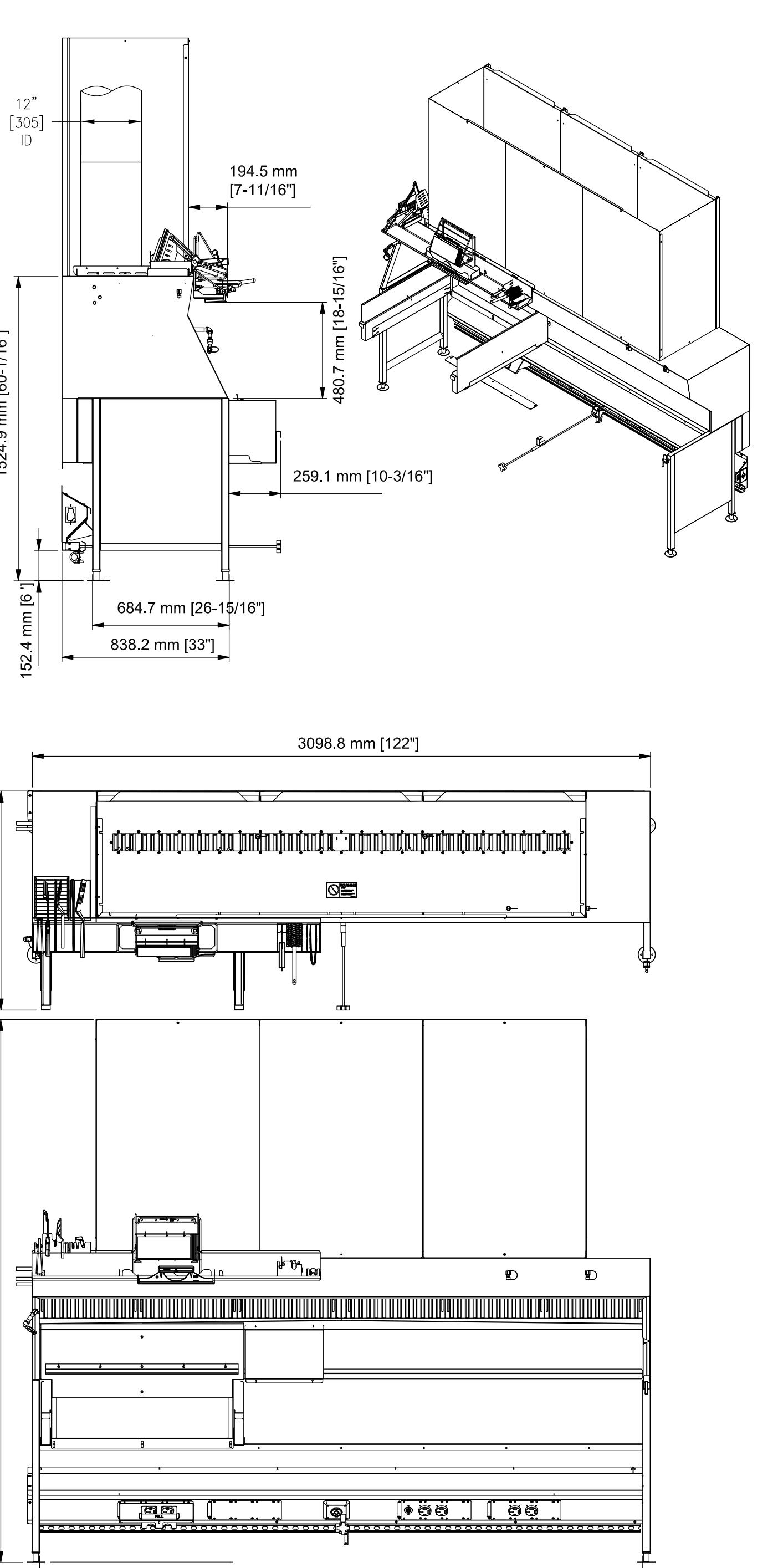
DRIVEN BY:  
M.J.W.  
STD ISSUE DATE: 2019-11  
REVIEWED BY: W.L.W.  
DATE ISSUED: 01-23-20  
R#1975  
TITLE: 2019 STANDARD BUILDING - BB20  
DESCRIPTION: WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI  
WOOD ROOF TRUSS FRAMING  
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH  
SITE ID: 015-0071  
SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS



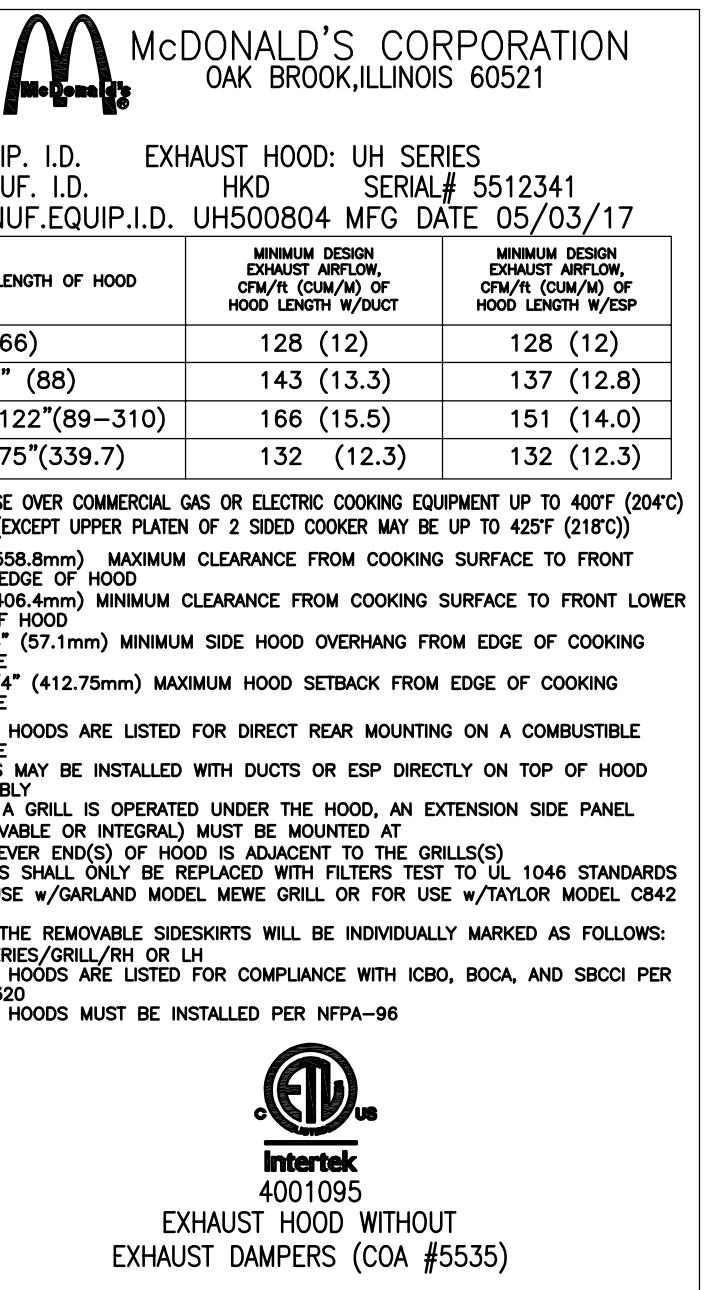
KITCHEN EXHAUST HOOD  
TAG: KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)  
SCALE:  $\frac{1}{2}''=1'-0''$



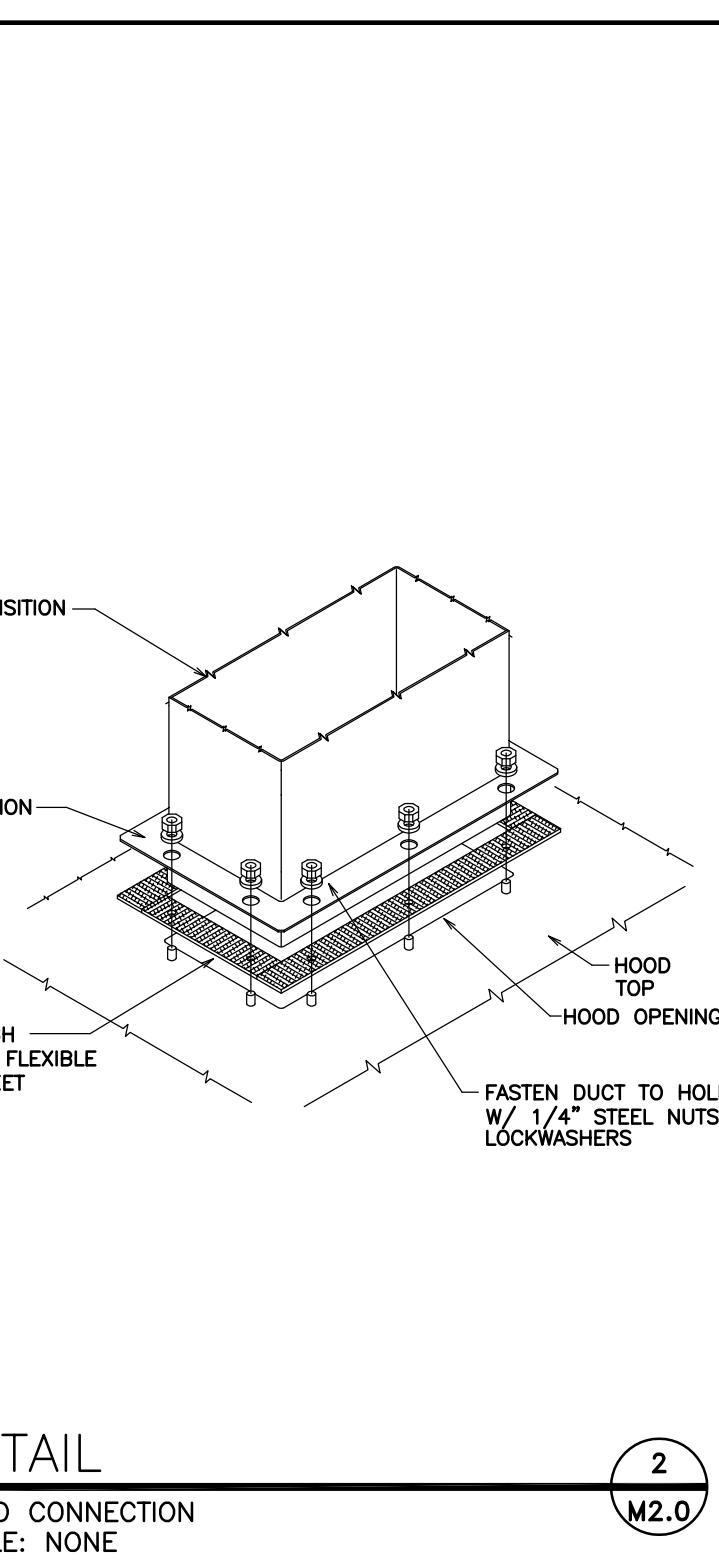
KITCHEN EXHAUST HOOD  
TAG: KH-2, KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)  
SCALE:  $\frac{1}{2}''=1'-0''$



KITCHEN EXHAUST HOOD  
TAG: KH-1 (SEE KITCHEN EXHAUST HOOD SCHEDULE)  
SCALE:  $\frac{1}{2}''=1'-0''$



DETAIL  
UL LABEL  
SCALE: NONE



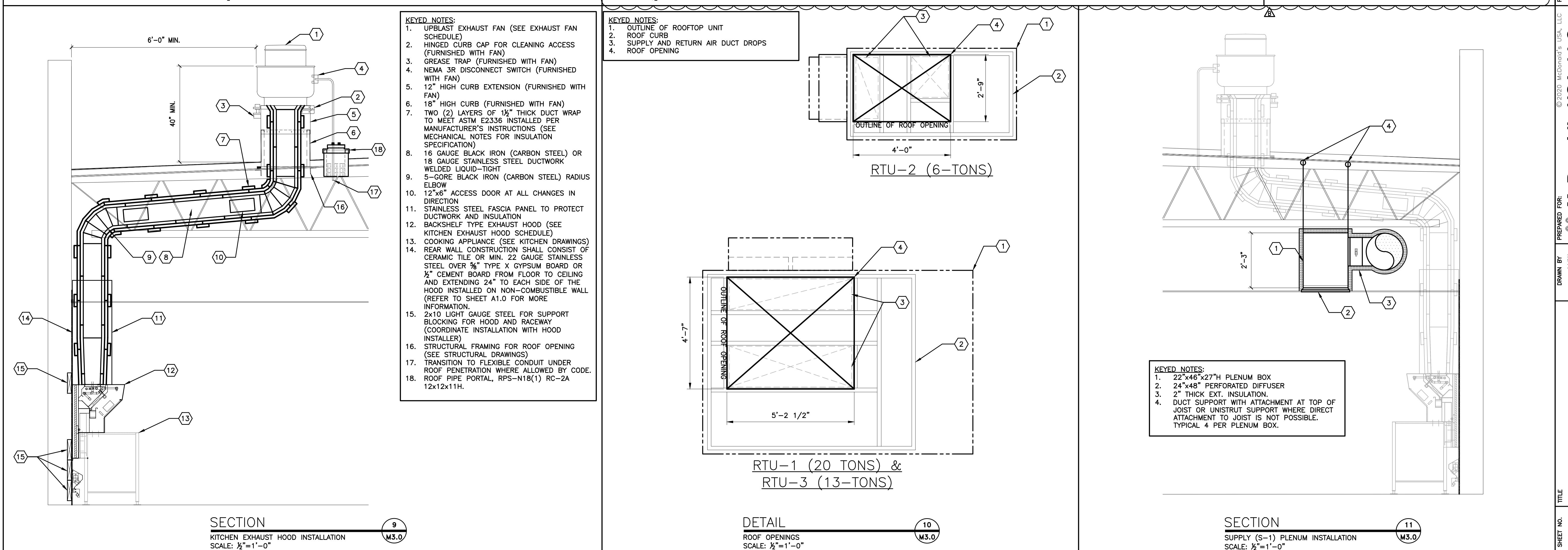
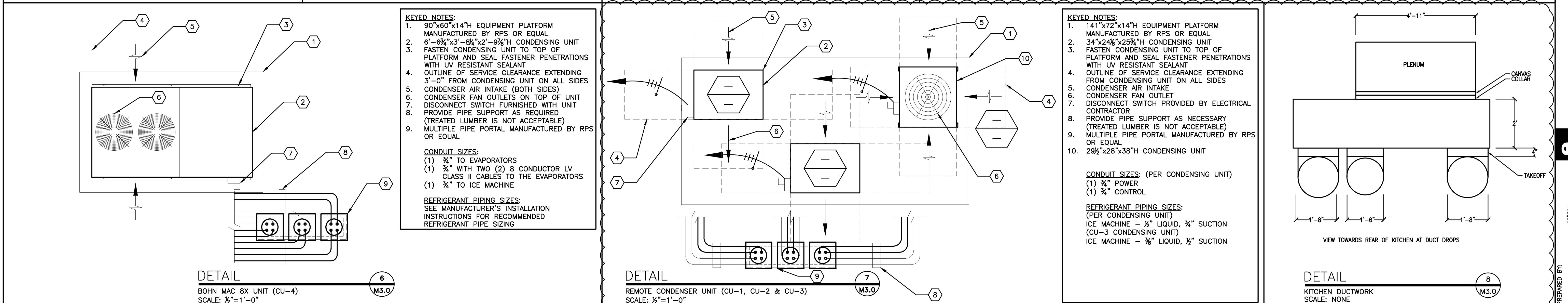
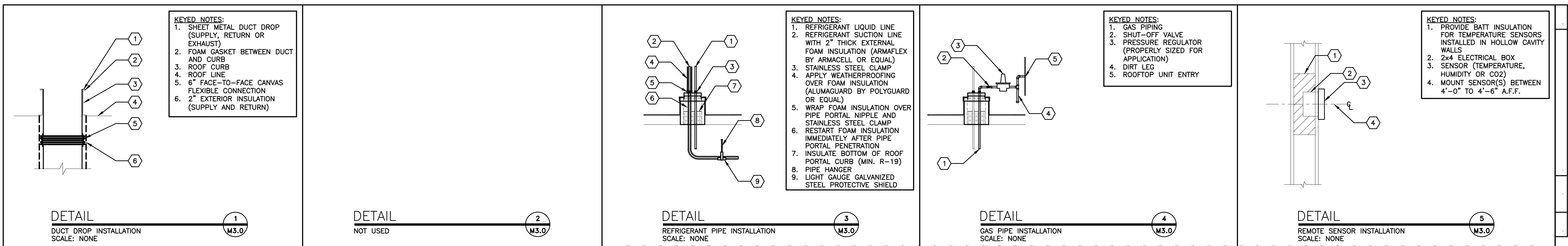
DETAIL  
HOOD CONNECTION  
SCALE: NONE

OWNER SELECTED EQUIPMENT WITH  
MANUFACTURER CUT SHEET  
FOR INFORMATION PURPOSES ONLY

| TITLE       | 2019 STANDARD BUILDING - BB20                        | STD ISSUE DATE | 2019-11                               | REVIEWED BY | WLW |
|-------------|------------------------------------------------------|----------------|---------------------------------------|-------------|-----|
| DESCRIPTION | WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI        |                |                                       |             |     |
|             | WOOD ROOF TRUSS FRAMING                              |                |                                       |             |     |
|             | FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EXT. FINISH |                |                                       |             |     |
| SHEET NO.   | 015-0071.00.0                                        | SITE ADDRESS   | 605 SOUTH 7TH STREET, KANSAS CITY, KS | REV. DATE   | BY  |

|                                                                |                                                                               |
|----------------------------------------------------------------|-------------------------------------------------------------------------------|
| 3801.0037                                                      | 17648                                                                         |
| MICHAEL WEBER<br>LICENSED<br>PROFESSIONAL ENGINEER<br>01/23/20 |                                                                               |
| Emmanuelson-podas<br>Consulting Engineers                      | Emmanuelson-Podas, Inc.<br>Edison, NJ 08817<br>(920) 930-0050   www.epinc.com |

| DRAWING NOTES                                                                                 |                         |
|-----------------------------------------------------------------------------------------------|-------------------------|
| 1. 16 GA. STAINLESS STEEL MATERIAL USED FOR HOOD CONSTRUCTION                                 | DRAWN BY: MJW           |
| 2. FILTER BAFFLE:<br>UL FILE R14372, VOL. 1, SEC. 1<br>UL CONTROL NUMBER 5L65<br>MEA-446-92-M | STD ISSUE DATE: 2019-11 |
| 3. EXHAUST HOOD:<br>UL FILE MH12755, VOL. 4<br>UL CONTROL NUMBER 78L1                         | REVIEWED BY: WLW        |
| 4. UTILITY CHASE AND RACEWAY:<br>UL FILE E163328, VOL.1, SEC.3                                | DATE ISSUED: 01-23-20   |
| 5. HIGH TEMP GASKET:<br>UL FILE MH12755, VOL. 2, SEC. 1, ILL. 9                               |                         |
| 6. HOOD CONSTRUCTION COMPLIES WITH NSF STANDARD 2                                             |                         |
| 7. HOOD PERFORMANCE TESTED IN ACCORDANCE WITH UL 710                                          |                         |
| 8. UL 300 AND NFPA 17A COMPLIANT R-102 WET CHEMICAL SYSTEM INCLUDED WITH HOOD INSTALLATION    |                         |
| 9. ANSUL CONNECTIONS AND STARTUP BY APPROVED ANSUL REPRESENTATIVE                             |                         |
| 10. REFER TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS                                              | RD#1975                 |



| SHEET NO.     | TITLE                                                                                                                                 | DRAWN BY                           | PREPARED FOR:                                                          |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------|
|               | 2019 STANDARD BUILDING - BB20<br>4597F10-WOOD/WOOD                                                                                    | M.J.W<br>STD ISSUE DATE<br>2019-11 | McDonald's USA, LLC<br>REVIEWED BY<br>W.L.W<br>DATE ISSUED<br>01-23-20 |
|               | WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH |                                    |                                                                        |
| 015-0071.00.B | SITE ADDRESS<br>605 SOUTH 7TH STREET, KANSAS CITY, KS                                                                                 |                                    |                                                                        |
|               |                                                                                                                                       |                                    | 12/03/20                                                               |

| DETAIL BY | DESCRIPTION                                                                         | REV | DATE     |
|-----------|-------------------------------------------------------------------------------------|-----|----------|
| W.L.W     | 1. PROVIDE BATT INSULATION FOR TEMPERATURE SENSORS INSTALLED IN HOLLOW CAVITY WALLS | A   | 12/03/20 |
| W.L.W     | 2. 2x4 ELECTRICAL BOX                                                               | A   | 05/05/20 |
| W.L.W     | 3. SENSOR (TEMPERATURE, HUMIDITY OR CO <sub>2</sub> )                               | A   | 01/23/20 |
| W.L.W     | 4. MOUNT SENSOR(S) BETWEEN 4'-0" TO 4'-6" A.F.F.                                    | A   | 01/13/20 |
| BY        |                                                                                     |     |          |

**emmanuelson-podas**  
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(920) 930-0050 | www.eppinc.com

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17648  
12/03/20

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| MECHANICAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     | LEGEND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | ABBREVIATIONS |                     |                    |             |        |        |                  |        |        |     |       |        |                           |                   |          |                 |                    |    |                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <p><b>GENERAL:</b></p> <ol style="list-style-type: none"> <li>ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.</li> <li>ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.</li> <li>ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.</li> <li>ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.</li> <li>SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.</li> <li>PRIOR TO BUILDING TURNOVER, A COMPLETE START-UP, TEST, ADJUST AND BALANCE SHALL BE PERFORMED ON ALL MECHANICAL SYSTEMS. THIS WORK SHALL BE PERFORMED BY A CERTIFIED TEST AND BALANCE CONTRACTOR. A CERTIFIED TEST AND BALANCE CONTRACTOR CAN BE FOUND BY VISITING: <a href="http://WWW.ABCHQ.COM/DIRECTORY">HTTP://WWW.ABCHQ.COM/DIRECTORY</a>, <a href="http://WWW.NEBC.ORG/DIRECTORY.HTM">HTTP://WWW.NEBC.ORG/DIRECTORY.HTM</a>, <a href="http://WWW.TABCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH">HTTP://WWW.TABCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH</a></li> <li>UPON COMPLETION OF THE PUNCHLIST, THE MECHANICAL CONTRACTOR AND TEST AND BALANCE CONTRACTOR SHALL SUBMIT REDLINED OR AS-BUILT DRAWINGS ALONG WITH THE TEST AND BALANCE REPORT AND ALL EQUIPMENT OPERATION AND MAINTENANCE MANUALS TO THE McDONALD'S AREA CONSTRUCTION MANAGER. A MINIMUM OF TWO (2) COPIES SHALL BE PROVIDED, ONE (1) FOR REGIONAL RECORDS AND ONE (1) FOR THE RESTAURANT.</li> <li>ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.</li> <p><b>VENTILATION SYSTEMS:</b></p> <ol style="list-style-type: none"> <li>ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SMACNA STANDARDS.</li> <li>ALL DUCTWORK DIMENSIONS ARE INTERNAL FREE AREA DIMENSIONS AND SIZED FOR 0.1" W.C. PER 100 FT. OF DUCT.</li> <li>ALL SHEET METAL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA TABLES FOR 2" W.C. AND SHALL BE SUPPORTED WITH AN APPROVED HANGER AT INTERVALS NOT EXCEEDING 10 FT.</li> <li>ALL DUCT DROPS INTO THE BUILDING SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO ISOLATE THE DUCTWORK SYSTEM FROM NOISE AND VIBRATION. FLEXIBLE CONNECTIONS SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND LISTED AS CLASS 0 OR CLASS 1.</li> <li>ALL DUCT DROPS INTO THE BUILDING SHALL BE OFFSET AS NECESSARY TO ALLOW FOR THE CLEAR INSTALLATION OF THE EXTERNAL DUCTWORK INSULATION.</li> <li>ALL DUCTWORK BRANCHES SHALL BE SUPPLIED WITH A VOLUME DAMPER FOR BALANCING. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION.</li> <li>TAKE-OFFS FROM RECTANGULAR TO ROUND DUCT SHALL BE DUCTMASTER STRAIGHT-SIDED OR CENTER HIGH-EFFICIENCY TAKE-OFFS WITH A 2" DAMPER STAND-OFF TO ACCOMMODATE FOR EXTERNAL INSULATION.</li> <li>ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS SHALL BE SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), TAPES, ETC. ALL SEALANT MATERIALS SHALL BE LISTED IN ACCORDANCE WITH UL 181A OR 181B.</li> <li>ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED WITHIN THE CEILING SPACE SHALL BE EXTERNALLY INSULATED. INSULATION SHALL BE 2" THICK MICROLITE XG-100 BY JOHNS MANVILLE OR EQUAL.</li> <li>ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED OUTSIDE OF THE BUILDING SHALL BE INTERNALLY LINED WITH A 1" THICK FIBERGLASS (MIN. R-4.2) AND EXTERNALLY INSULATED WITH A 1/2" THICK RIGID POLYSTYRENE, POLYURETHANE OR POLYISOCYANURATE BOARD (MIN. R-7.5). INTERNAL FIBERGLASS INSULATION SHALL BE LINATEX BY JOHNS MANVILLE OR EQUAL. EXTERNAL RIGID BOARD INSULATION SHALL BE THERMAPINK BY OWENS CORNING OR EQUAL.</li> <li>ALL EXPOSED SPIRAL DUCTWORK SHALL BE INTERNALLY INSULATED TO PREVENT CONDENSATION (MIN. R-4.3). INTERNAL INSULATION SHALL BE 1" THICK SPIRACOUSTIC PLUS BY JOHNS MANVILLE OR EQUAL.</li> <li>ALL DUCTWORK PENETRATIONS THROUGH FIRE-RATED WALLS, BARRIERS OR PARTITIONS SHALL BE PROTECTED WITH A FIRE DAMPER. THE PERIMETER OF THE FIRE DAMPER SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING MATERIAL.</li> <li>ALL EXTERIOR SHEET METAL DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH AN APPROVED WEATHERPROOFING MATERIAL TO PROTECT AGAINST WATER PENETRATION AND CORROSION. SIDES AND TOP OF EXTERNAL WEATHERPROOFING SHALL BE ALUMAGUARD 60 MIL UV BARIER BY POLYGUARD OR EQUAL. BOTTOM OF EXTERNAL WEATHERPROOFING SHALL BE VAPORGUARD 5 MIL MEMBRANE BY POLYGUARD OR EQUAL.</li> <li>ALL FLEXIBLE DUCTWORK, METALLIC AND NONMETALLIC, SHALL CONFORM TO THE FOLLOWING:           <ol style="list-style-type: none"> <li>2" THICK INSULATION (R-6.0)</li> <li>INTEGRAL VAPOR BARRIER</li> <li>LISTED AND LABELED UL 181, CLASS 0 OR CLASS 1</li> <li>INSTALLED IN ACCORDANCE WITH:               <ol style="list-style-type: none"> <li>SMACNA STANDARDS,</li> <li>AIR DIFFUSION COUNCIL INSTALLATION GUIDELINES, AND/OR</li> <li>MANUFACTURER'S INSTALLATION INSTRUCTIONS</li> </ol> </li> </ol> </li> <li>FLEXIBLE DUCTWORK SHALL NOT PENETRATE WALLS. SHEET METAL DUCTWORK IS REQUIRED AT ALL FIRE-RATED AND DRAFTSTOP WALL PENETRATIONS.</li> <li>ALL COVERINGS, LININGS AND ADHESIVES (TAPES, ETC.) SHALL HAVE A FLAME-Spread INDEX NOT GREATER THAN 25 AND A SMOKE-DEVELOPED INDEX NOT GREATER THAN 50.</li> <li>DUCT-MOUNTED SMOKE DETECTORS SHALL BE INSTALLED IN SYSTEMS WITH DESIGN CAPACITY GREATER THAN 2,000 CFM. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF SMOKE DETECTORS. DUCT-MOUNTED SMOKE DETECTORS ARE NOT REQUIRED WHEN THE BUILDING IS PROTECTED THROUGHOUT BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM WHERE THE FIRE ALARM SYSTEM IS DESIGNED TO SHUT DOWN THE ROOFTOP UNITS.</li> <li>ALL SUPPLY AIR DIFFUSERS SHALL BE INSULATED TO PREVENT CONDENSATION.</li> <li>ALL AIR DEVICES LOCATED IN DRYWALL CEILINGS SHALL BE SUPPLIED WITH AN INTEGRAL VOLUME DAMPER ACCESSIBLE FROM THE AIR DEVICE FACE TO FACILITATE BALANCING.</li> <li>ALL OUTDOOR AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY SOURCE OF CONTAMINATION SUCH AS EXHAUST FANS, PLUMBING VENTS, WATER HEATER FLUES, ETC. WHERE A CONTAMINANT SOURCE IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE INTAKE OPENING SHALL BE LOCATED A MINIMUM OF 2 FT. BELOW THE CONTAMINANT SOURCE.</li> </ol> </ol> |                     | <p><b>CONDENSATE PIPING:</b></p> <ol style="list-style-type: none"> <li>CONDENSATE PIPING SHALL BE GALVANIZED STEEL, COPPER OR PVC.</li> <li>PVC PIPE SHALL BE PAINTED WITH WATER BASED LATEX PAINTING TO RESIST DEGRADATION FROM ULTRAVIOLET EXPOSURE.</li> <li>PIPE SUPPORTS SHALL BE RPS MODEL PMP-2 OR EQUAL. QUANTITY AS REQUIRED DEPENDANT UPON PIPING MATERIAL.</li> <li>PIPING SHALL BE SUPPORTED AS FOLLOWS:</li> <table border="1"> <thead> <tr> <th>MATERIAL</th> <th>MAX. HORIZ. SPACING</th> <th>MAX. VERT. SPACING</th> </tr> </thead> <tbody> <tr> <td>COPPER PIPE</td> <td>12 FT.</td> <td>10 FT.</td> </tr> <tr> <td>GALVANIZED STEEL</td> <td>12 FT.</td> <td>15 FT.</td> </tr> <tr> <td>PVC</td> <td>4 FT.</td> <td>15 FT.</td> </tr> </tbody> </table> </ol> <p>5. CONDENSATE PIPING SHALL SLOPE A MINIMUM OF <math>\frac{1}{8}</math>" PER FOOT.</p> <p>6. CONDENSATE PIPING SHALL BE SIZED BASED ON THE FOLLOWING:</p> <table border="1"> <thead> <tr> <th>TOTAL TONS SERVED BY PIPE</th> <th>MINIMUM PIPE SIZE</th> </tr> </thead> <tbody> <tr> <td>&lt;20 TONS</td> <td><math>\frac{3}{4}</math>"</td> </tr> <tr> <td>&gt;20 TONS, &lt;40 TONS</td> <td>1"</td> </tr> <tr> <td>&gt;40 TONS, &lt;125 TONS</td> <td><math>1\frac{1}{2}</math>"</td> </tr> </tbody> </table> |  | MATERIAL      | MAX. HORIZ. SPACING | MAX. VERT. SPACING | COPPER PIPE | 12 FT. | 10 FT. | GALVANIZED STEEL | 12 FT. | 15 FT. | PVC | 4 FT. | 15 FT. | TOTAL TONS SERVED BY PIPE | MINIMUM PIPE SIZE | <20 TONS | $\frac{3}{4}$ " | >20 TONS, <40 TONS | 1" | >40 TONS, <125 TONS | $1\frac{1}{2}$ " | <p><b>CO2 DETECTION EQUIPMENT:</b></p> <ol style="list-style-type: none"> <li>THE CO2 DETECTOR SHALL BE HARD-WIRED TO PREVENT TAMPERING AND SHALL BE INSTALLED AT 12" A.F.F. WITHIN A 5 FT. RADIUS OF THE CO2 STORAGE TANKS.</li> <li>ONE (1) AUDIBLE AND ONE (1) VISUAL ALARM SHALL BE INSTALLED A MINIMUM OF 7 FT. A.F.F., IN PLAIN SIGHT IN THE SAME ROOM AS THE CO2 STORAGE TANKS.</li> <li>ONE (1) AUDIBLE AND ONE (1) VISUAL ALARM SHALL BE INSTALLED A MINIMUM OF 7 FT. A.F.F., AT THE BACK OF THE KITCHEN AND IN PLAIN SIGHT FROM THE MAIN SIDE OF THE PREP LINE.</li> </ol> <p><b>NATURAL GAS SYSTEMS (IF APPLICABLE):</b></p> <ol style="list-style-type: none"> <li>ALL GAS PIPING, WATER HEATER VENTS, INTAKES AND FLUES SHALL CONFORM TO THE CURRENT VERSION OF NFPA 54, NATIONAL FUEL GAS CODE, AND ANY LOCAL CODE REQUIREMENTS.</li> <li>THE NATURAL GAS MAIN PIPE SIZING IS BASED ON THE FOLLOWING:           <ol style="list-style-type: none"> <li>MINIMUM SUPPLY PRESSURE AT THE METER OF 2 PSIG</li> <li>1 PSIG PRESSURE DROP FROM METER TO FARDEST APPLIANCE</li> <li>1,000 BTU PER CU. FT. OF NATURAL GAS</li> </ol> </li> <li>GAS PIPING RUN-OUTS TO EQUIPMENT ARE SIZED BASED ON THE FOLLOWING:           <ol style="list-style-type: none"> <li>SUPPLY PRESSURE AT THE REGULATOR OF 10" W.C. (<math>\frac{1}{2}</math> PSIG)</li> <li>0.5" W.C. PRESSURE DROP FROM REGULATOR TO FARDEST APPLIANCE</li> <li>1,000 BTU PER CU. FT. OF NATURAL GAS</li> </ol> </li> <li>ALL NATURAL GAS PIPE SHALL BE SCHEDULE 40 CARBON STEEL PIPE WITH MALLEABLE IRON FITTINGS AND SHALL BE COMPLY TO ONE OF THE FOLLOWING STANDARDS: ASME B36.10, 10M; ASTM A 53; OR ASTM A 106.</li> <li>NATURAL GAS PRESSURE REGULATORS SHALL BE MAXITROL 325 SERIES OR EQUAL.</li> <li>ALL SUSPENDED STEEL PIPING SHALL BE SUPPORTED AS FOLLOWS:</li> <table border="1"> <thead> <tr> <th>SIZE</th> <th>MAX. HORIZ. SPACING</th> <th>MAX. VERT. SPACING</th> </tr> </thead> <tbody> <tr> <td><math>\frac{1}{2}</math>"</td> <td>6 FT.</td> <td>6 FT.</td> </tr> <tr> <td><math>\frac{3}{4}</math>" TO 1"</td> <td>8 FT.</td> <td>8 FT.</td> </tr> <tr> <td><math>\geq 1\frac{1}{2}</math>"</td> <td>10 FT.</td> <td>10 FT.</td> </tr> </tbody> </table> </ol> <p>7. GAS PIPING SHALL NOT PENETRATE ANY FIRE-RATED CHASE OR SHAFT, DUCTWORK OR PLenum.</p> <p>8. ALL NATURAL GAS PIPING INSTALLED OUTDOORS SHALL BE COATED WITH A CORROSION RESISTANT PAINT. PAINT COLOR SHALL BE ORANGE OR YELLOW.</p> <p>9. ALL INTAKE AND VENT PIPING FOR SEALED-COMBUSTION WATER HEATERS SHALL BE PVC OR ABS. SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR.</p> <p>10. ALL WATER HEATER VENTS SHALL BE LOCATED A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A WATER HEATER VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE FLUE OR VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.</p> <p>11. UPON COMPLETION OF INSTALLATION, THE GAS PIPING SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND SHALL BE PRESSURE TESTED. PRESSURE TESTING SHALL BE PERFORMED WITH THE EQUIPMENT SHUT-OFF VALVES IN THE CLOSED POSITION TO PROTECT EQUIPMENT FROM DAMAGE DUE TO EXCESSIVE PRESSURE.</p> <p>12. AFTER THE PRESSURE TEST HAS BEEN COMPLETED AND ANY LEAKS REMEDIED, THE INSTALLING CONTRACTOR SHALL MEASURE AND VERIFY THE FOLLOWING GAS PRESSURES WHILE EQUIPMENT IS IN OPERATION:</p> |  | SIZE | MAX. HORIZ. SPACING | MAX. VERT. SPACING | $\frac{1}{2}$ " | 6 FT. | 6 FT. | $\frac{3}{4}$ " TO 1" | 8 FT. | 8 FT. | $\geq 1\frac{1}{2}$ " | 10 FT. | 10 FT. |
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| $\geq 1\frac{1}{2}$ "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |               |                     |                    |             |        |        |                  |        |        |     |       |        |                           |               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**emmanuelson-podas**  
Consulting engineers

3801.0037



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01/23/20

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DRAWN BY:  
M.J.W.

STD ISSUE DATE:  
2019-11

REVIEWED BY:  
W.L.W.

DATE ISSUED:  
01-23-20

FILE NUMBER:  
RD#19175

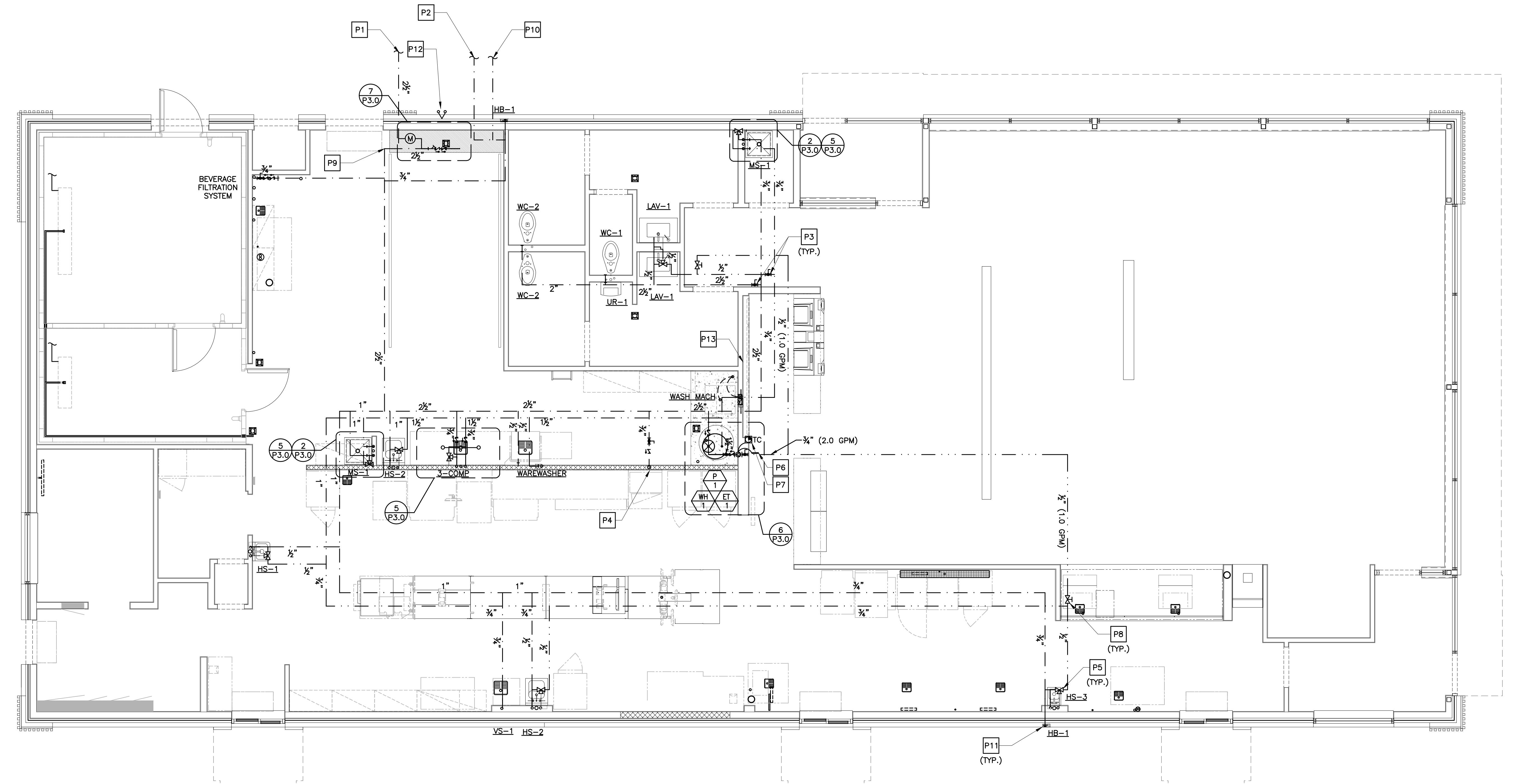
SHEET NO.:  
015-0071.00.0

M4.0

GENERAL NOTES

Sheet No. 015-0071.00.0  
Title: 2019 STANDARD BUILDING - BB20  
Description: 4597F10-WOOD/WOOD  
Wood Bearing Walls w/Fiber Cement Siding & Cl  
Fiber Cement Panel/Batten/Alpolic Panel/Brick Ext. Finish  
Site ID: 605 South 7th Street, Kansas City, KS  
Address: 015-0071  
Review Date: 01/23/20  
Permit Set: 01/23/20  
Prog. Set Review: 01/13/20  
Rev. Date: 01/23/20





1 DOMESTIC WATER PIPING PLAN  
P1.0 1/4"=1'-0"

### DRAWING NOTES

1. PIPING ROUTES AS SHOWN ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. ALL WATER DISTRIBUTION PIPING SHALL BE INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.
3. ALL OUTDOOR UTILITIES MOUNTED ON THE WALL MUST BE PAINTED TO MATCH THE BUILDING

DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, OR SHOWN ON DRAWINGS BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS. IF NOT OTHERWISE DIRECTED, INSTALLATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE WORK DESCRIBED IN THE SPECIFICATIONS IS IN CONFLICT WITH THE WORK SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL SUPPLY THE GREATER QUANTITY, QUALITY AND COST VIA THE BID AND CONTACT THE ENGINEER FOR CLARIFICATION ON DIRECTION PRIOR TO INSTALLATION.

PRIOR TO BID, THE CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND KITCHEN EQUIPMENT DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL RELEVANT WORK IN THE ENTIRE SET OF DOCUMENTS AND REPORT ALL DISCREPANCIES BETWEEN THESE DRAWINGS TO THE ENGINEER PRIOR TO BIDDING FOR CLARIFICATION. DISCREPANCIES REMAIN UNRESOLVED DUE TO A SHORT TIME FRAME, THE CONTRACTOR SHALL INCLUDE THE MOST WORK AND THE HIGHER COSTS IN THE BID. SOLUTIONS TO UNREPORTED DISCREPANCIES WILL BE DETERMINED BY THE ARCHITECT/ENGINEER, WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.

### KEYED NOTES

- P1 INCOMING UNDERGROUND WATER SERVICE (SEE SITE PLAN FOR CONTINUATION). WATER PIPING FROM THIS POINT TO CEILING PENETRATION INSIDE BUILDING SHALL BE COPPER.
- P2 COLD WATER UNDERGROUND TO YARD HYDRANT (HB-2) IN TRASH CORRAL. SEE SITE PLAN FOR CONTINUATION.
- P3 SHUT-OFF VALVE FOR RESTROOM AND HOSE BIBB ISOLATION. SEE VALVE SCHEDULE. ALL LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P4 1/4" COLD WATER UP TO ROOF HYDRANT.
- P5 MIXING VALVE LOCATIONS SHOWN FOR INFORMATIONAL PURPOSES. SEE DETAIL 3 ON DRAWING P3.0 FOR MIXING VALVE INSTALLATION DETAILS.
- P6 PIPE-MOUNTED AQUASTAT TO SHUT PUMP DOWN WHEN RECIRCULATION TEMPERATURE REACHES 140°F. SEE DETAIL 6 ON DRAWING P3.0.
- P7 TIME CLOCK TO SHUT PUMP AND WATER HEATER DOWN DURING UNOCCUPIED HOURS. SEE ELECTRICAL DRAWINGS FOR WIRING DETAIL.
- P8 BALANCING VALVE FOR RECIRCULATION SYSTEM. SEE VALVE SCHEDULE. ALL BALANCING VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P9 WATER PIPING AFTER CEILING PENETRATION CAN TRANSITION TO CPVC WHERE PERMITTED BY CODE.
- P10 VERIFY IRRIGATION SYSTEM, PROVIDE WATER LINE WITH BACKFLOW PREVENTER, VERIFY EXACT LOCATION WITH LANDSCAPE. 1" SEWER DEDUCT METER AND BACKFLOW ASSEMBLY.
- P11 PROVIDE FREEZE PROOF HYDRANT.

FIRE DEPARTMENT SIAMESE CONNECTION. SPRINKLER CONTRACTOR SHALL ROUTE LINE IN ACCESSIBLE CEILING SPACE FROM CONNECTION TO FIRE SPRINKLER SERVICE. MAKE ALL CONNECTIONS REQUIRED. VERIFY PIPE SIZE AND LOCATION OF SIAMESE WITH CIVIL AND FIRE MARSHALL. PROVIDED BY OTHERS. COORDINATE LOCATION OF SIAMESE CONNECTION WITH FIRE SPRINKLER SHEETS.

P13 PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH ANY FIRE WALL(TYP)

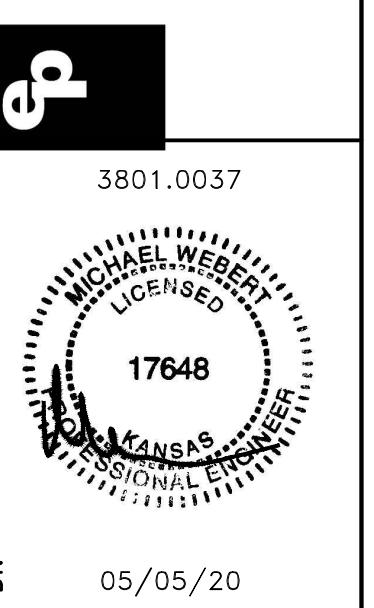
### SUPPLY PIPE SIZING - UPC

| Fixture Type            | SIZE    | SUPPLY HW | SUPPLY CW | QUANTITY | TOTAL |
|-------------------------|---------|-----------|-----------|----------|-------|
| URINAL                  | 1 IN.   | 0         | 20        | 1        | 20    |
| WATER CLOSET            | 1 IN.   | 0         | 90        | 3        | 90    |
| LAVATORY SINK           | 1/2 IN. | 1         | 1         | 2        | 2     |
| WASH SINK (HAND SINK)   | 1/2 IN. | 2         | 2         | 4        | 8     |
| MOP SINK                | 3/4 IN. | 3         | 3         | 2        | 6     |
| VEGETABLE SINK          | 3/4 IN. | 0         | 3         | 1        | 3     |
| 3-COMP SINK             | 3/4 IN. | 3         | 3         | 1        | 3     |
| WASHING MACHINE         | 3/4 IN. | 4         | 4         | 1        | 4     |
| DISH WASHER             | 3/4 IN. | 1.5       | 1.5       | 1        | 3     |
| HOSE BIB                | 3/4 IN. | 0         | 2.5       | 4        | 5.5   |
| LAWN SPRINKLER          | 1/2 IN. | 0         | 1         | 4        | 4     |
| WATER FILTRATION SYSTEM | 3/4 IN. | 0         | 1         | 3        | 3     |
| CLEANING FAUCET         | 1/2 IN. | 2         | 2         | 0        | 0     |
| TOTAL                   |         |           |           |          | 151.5 |

IF YOU HAVE ANY QUESTIONS REGARDING THE PLANS, PLEASE CALL THE DESIGNER.

DESIGNER: Wendy Wenborg  
PHONE/FAX: 952-540-4047  
EMAIL: wwwenborg@epinc.com

|                                                                              |                     |
|------------------------------------------------------------------------------|---------------------|
| PREPARED BY:                                                                 | McDonald's USA, LLC |
| CONSULTING ENGINEERS:                                                        | emmanuelson-podas   |
| Emmanuelson-Podas, Inc.<br>Edina, MN 55439<br>(612) 990-0050   www.epinc.com |                     |
| W/LW<br>05/05/20 CIVIL & PLANT REVIEW COMMENTS                               |                     |
| W/LW<br>01/23/20 PERMIT SET                                                  |                     |
| W/LW<br>01/13/20 USD PROGRESS SET REVIEW                                     |                     |
| W/LW<br>REV DATE                                                             |                     |
| BY                                                                           |                     |



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PREPARED FOR:

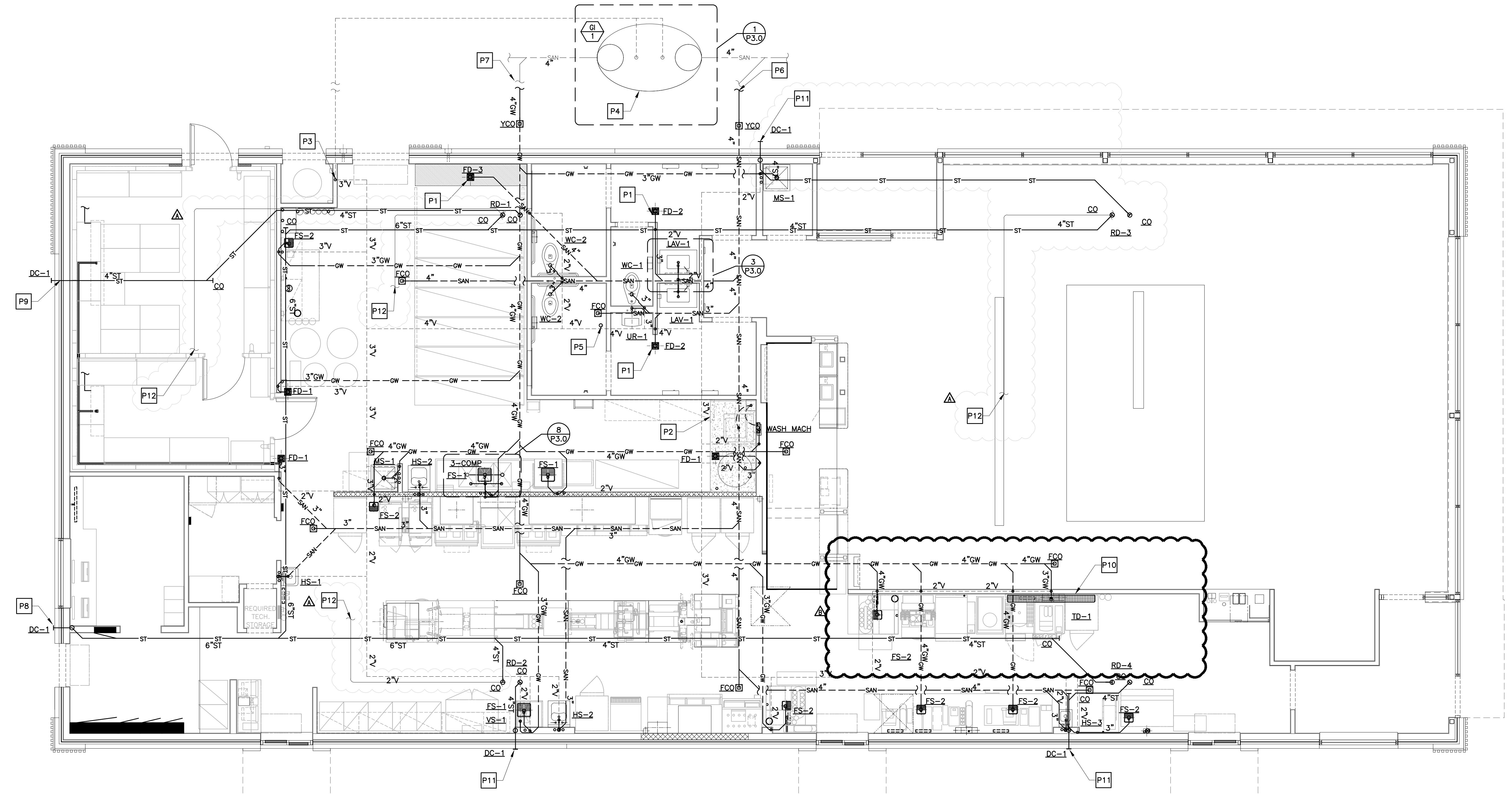
McDonald's USA, LLC

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DRAWN BY: M.J.W.  
STD ISSUE DATE: 2019-11  
REVIEWED BY: W/LW  
DATE ISSUED: 01-23-20  
FILE# 19175  
TITLE: 2019 STANDARD BUILDING - BB20  
DESCRIPTION: DEEP BEARING WALLS W/ FIBER CEMENT SIDING & CI  
WATER ROOF TRUSS FRAMING  
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH  
SITE ID: 015-0071  
SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS

SHEET NO. P1.0

DOMESTIC WATER PIPING



1 WASTE & VENT PIPING PLAN  
P1.2 1/4"=1'-0"

#### DRAWING NOTES

1. PIPING ROUTES ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. WALL CLEAN-OUTS FOR WASTE PIPING NOT SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
3. ONLY MAIN FLOOR CLEAN-OUTS ARE SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
4. ALL HORIZONTAL STORM DRAINAGE PIPING SHALL BE INSULATED TO PREVENT CONDENSATION. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.=

#### KEYED NOTES

- P1 PROVIDE PROSET TRAP GUARD® OR TRAP PRIMER FOR FLOOR DRAIN OR FLOOR SINK.
- P2 TOP OF CONCRETE SLAB IS 0'-6" A.F.F.
- P3 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
- P4 GREASE INTERCEPTOR LOCATION SHOWN FOR REFERENCE ONLY. COORDINATE GREASE INTERCEPTOR LOCATION WITH CIVIL ENGINEER AND SITE CONTRACTOR.
- P5 4"x5" VENT THROUGH ROOF
- P6 SANITARY LINE TO SANITARY SEWER. SEE SITE PLAN FOR CONTINUATION.
- P7 GREASE LINE TO EXTERIOR GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION
- P8 TERMINATE BOTTOM OF PRIMARY STORM DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.
- P9 TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER.
- P10 REFERENCE MANUFACTURER INSTALLATION GUIDE FOR LAYOUT GUIDELINES PRIOR TO INSTALL AND POURING THE SLAB
- P11 TERMINATE BOTTOM OF OVERFLOW DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.
- P12 ROUTE CONDENSATE TO ROOF DRAIN AS SHOWN

#### WASTE PIPE SIZING - UPC

| Fixture Type          | TRAP SIZE | DFU | QUANTITY | TOTAL |
|-----------------------|-----------|-----|----------|-------|
| URINAL                | 2 IN.     | 2   | 1        | 2     |
| WATER CLOSET          | 3 IN.     | 4   | 3        | 12    |
| LAVATORY SINK         | 1 1/4 IN. | 1   | 2        | 2     |
| WASH SINK (HAND SINK) | 1 1/2 IN. | 2   | 4        | 8     |
| FLOOR DRAIN OR SINK   | 3 IN.     | 6   | 5        | 30    |
| FLOOR DRAIN OR SINK   | 4 IN.     | 8   | 1        | 8     |
| FLOOR DRAIN EMERGENCY | 3 IN.     | 0   | 0        | 0     |
| TOTAL                 |           |     |          | 62    |

#### GREASE PIPE SIZING - UPC

| MOP SINK            | 3 IN. | 3 | 2  | 6  |
|---------------------|-------|---|----|----|
| FLOOR DRAIN OR SINK | 3 IN. | 6 | 10 | 60 |
| TRENCH DRAIN        | 4 IN. | 8 | 1  | 8  |
| WASHING MACHINE     | 2 IN. | 1 | 3  | 3  |
| TOTAL               |       |   |    | 77 |

#### STORM PIPE SIZING

RAINFALL = 4 IN./HR  
VERTICAL LEADERS

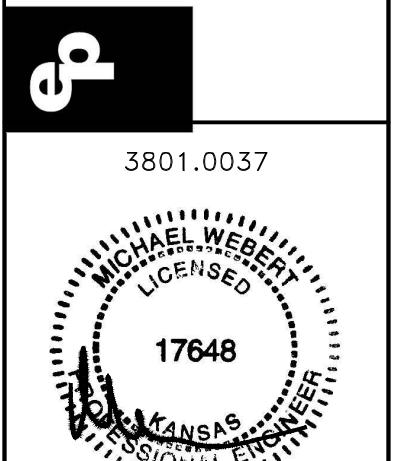
| ROOF AREA | SIZE  |
|-----------|-------|
| RD-1      | 1,345 |
| RD-2      | 1,340 |
| RD-3      | 1,145 |
| RD-4      | 1,145 |
| TOTAL     | 4,975 |

#### HORIZONTAL PIPING (SLOPE X" PER FOOT)

| ROOF AREA | SIZE  |
|-----------|-------|
| RD-1      | 1,345 |
| RD-2      | 1,340 |
| RD-3      | 1,145 |
| RD-4      | 1,145 |
| TOTAL     | 4,975 |

| DESCRIPTION                        | REV DATE |
|------------------------------------|----------|
| W.L.W. SERVICE AREA OPTIMIZATION   | 12/03/20 |
| W.L.W. USD: SAO SET REVIEW         | 11/13/20 |
| W.L.W. CIVL & PLAN REVIEW COMMENTS | 05/05/20 |
| W.L.W. PERMIT SET                  | 01/23/20 |
| W.L.W. PROGRESS SET REVIEW         | 01/13/20 |
| W.L.W. REV DATE                    |          |

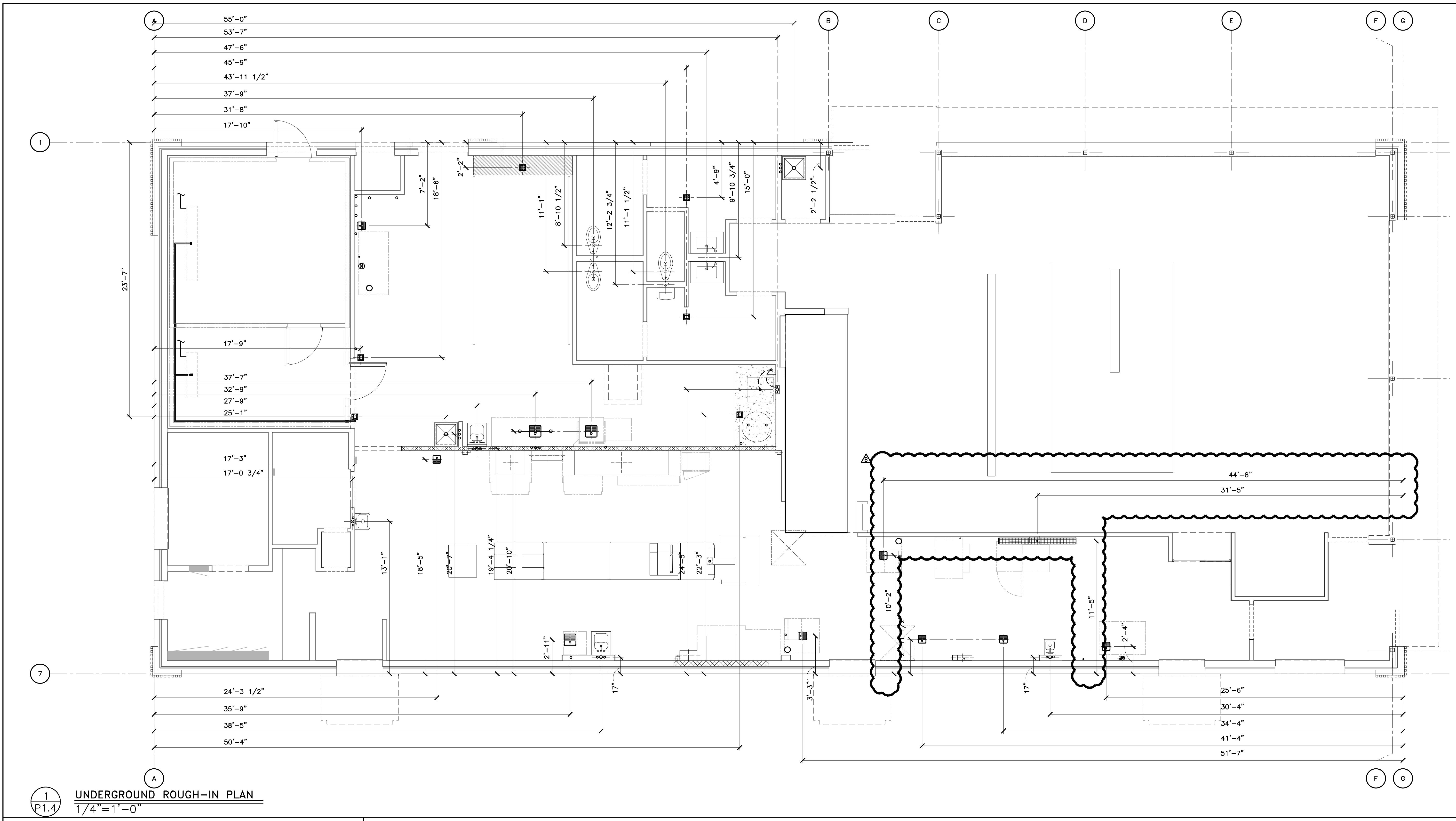
emmanuelson-podas consulting engineers  
380.00.037  
Michael Weber  
LICENSED  
17648  
KANSAS STATE BOARD OF ENGINEERS  
12/03/20



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| TITLE                         | STD ISSUE DATE | REVIEWED BY | DATE ISSUED | DESCRIPTION                                                                                                                            |
|-------------------------------|----------------|-------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 2019 STANDARD BUILDING - BB20 | 2019-11        | W.L.W.      | 01-23-20    | 4597F10-WOOD/WOOD                                                                                                                      |
| DESCRIPTION                   |                |             |             | WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH |
| SITE ID                       |                |             |             | SITE ADDRESS<br>605 SOUTH 7TH STREET, KANSAS CITY, KS                                                                                  |
| 015-0071.00.B                 |                |             |             |                                                                                                                                        |

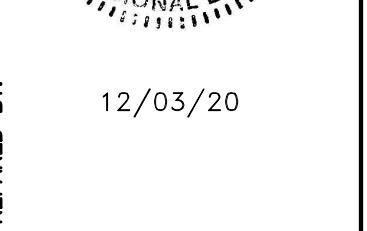
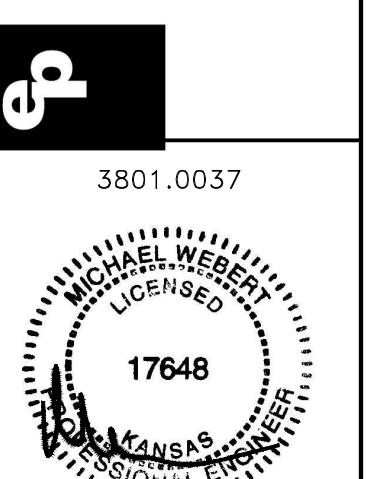
**P1.2**  
WASTE, VENT & STORM PIPING



### DRAWING NOTES

1. THIS PLAN IS PROVIDED AS A GUIDE FOR THE PLUMBING CONTRACTOR. ALL DIMENSIONS ARE ROUNDED TO THE NEAREST  $\frac{1}{4}$ ", AND ARE TAKEN FROM ARCHITECTURAL GRID LINES.

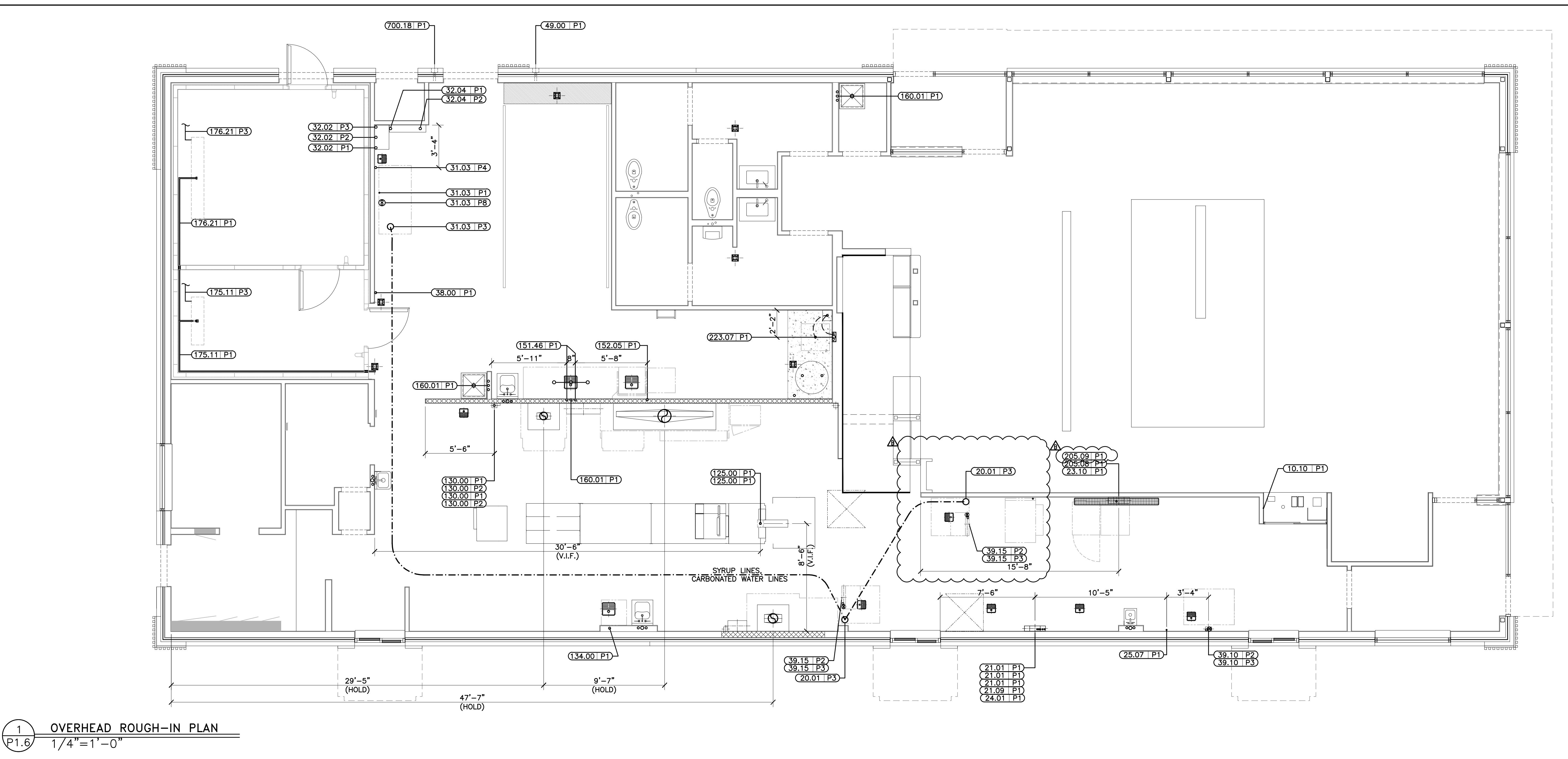
| SHEET NO. | TITLE                                                                                                                                 | PREPARED BY:     | REVIEWED BY:      | DATE ISSUED: | DESCRIPTION                  | REV. DATE | BY |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|--------------|------------------------------|-----------|----|
|           | 2019 STANDARD BUILDING - BB20<br>4597F10-WOOD/WOOD                                                                                    | M.J.W<br>2019-11 | W.L.W<br>11/17/20 | 12/03/20     | SERVICE AREA OPTIMIZATION    |           |    |
|           | WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH |                  |                   | 05/05/20     | CIVIL & PLAN REVIEW COMMENTS |           |    |
|           |                                                                                                                                       |                  |                   | 01/23/20     | PERMIT SET                   |           |    |
|           |                                                                                                                                       |                  |                   | 01/13/20     | PROGRESS SET REVIEW          |           |    |
|           |                                                                                                                                       |                  |                   | REV          | DATE                         |           |    |



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| SHEET NO.     | TITLE                        | DRAWN BY:        | PREPARED BY:      | REVIEWED BY:      | DATE ISSUED: | DESCRIPTION                                                                                                                           | REV. DATE | BY |
|---------------|------------------------------|------------------|-------------------|-------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------|----|
| 015-0071.00.B | P1.4<br>UNDERGROUND ROUGH-IN | M.J.W<br>2019-11 | W.L.W<br>11/17/20 | W.L.W<br>11/17/20 | 12/03/20     | WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH |           |    |

SEE SHEET P1.6 FOR OVERHEAD  
DIMENSIONS AND PLUMBING SCHEDULE.  
**P1.4**  
UNDERGROUND ROUGH-IN

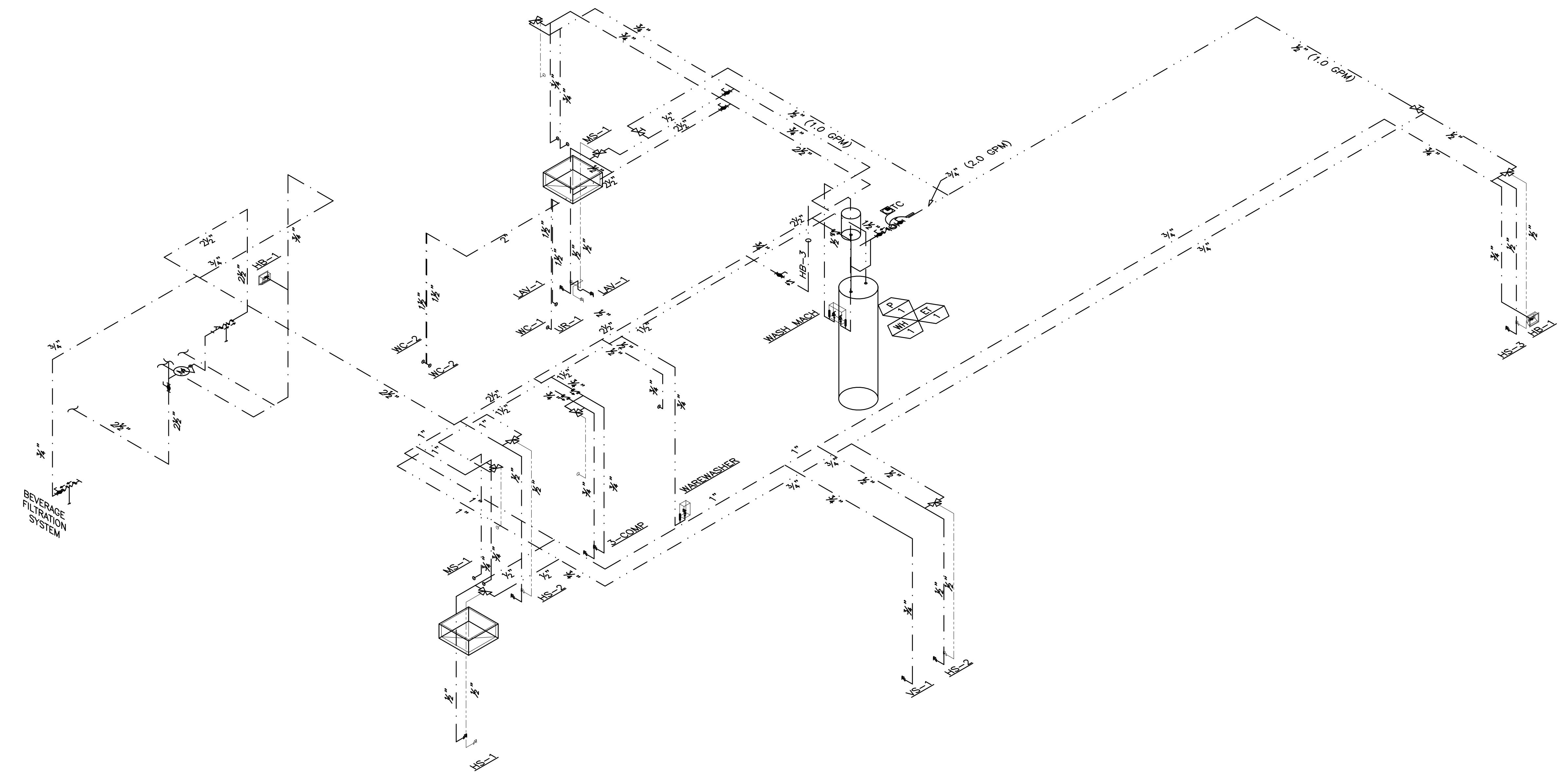


1      OVERHEAD ROUGH-IN PLAN  
P1.6       $\frac{1}{4}$ " = 1'-0"

**SEE SHEET P1.4 FOR  
UNDERGROUND ROUGH-IN PLAN**

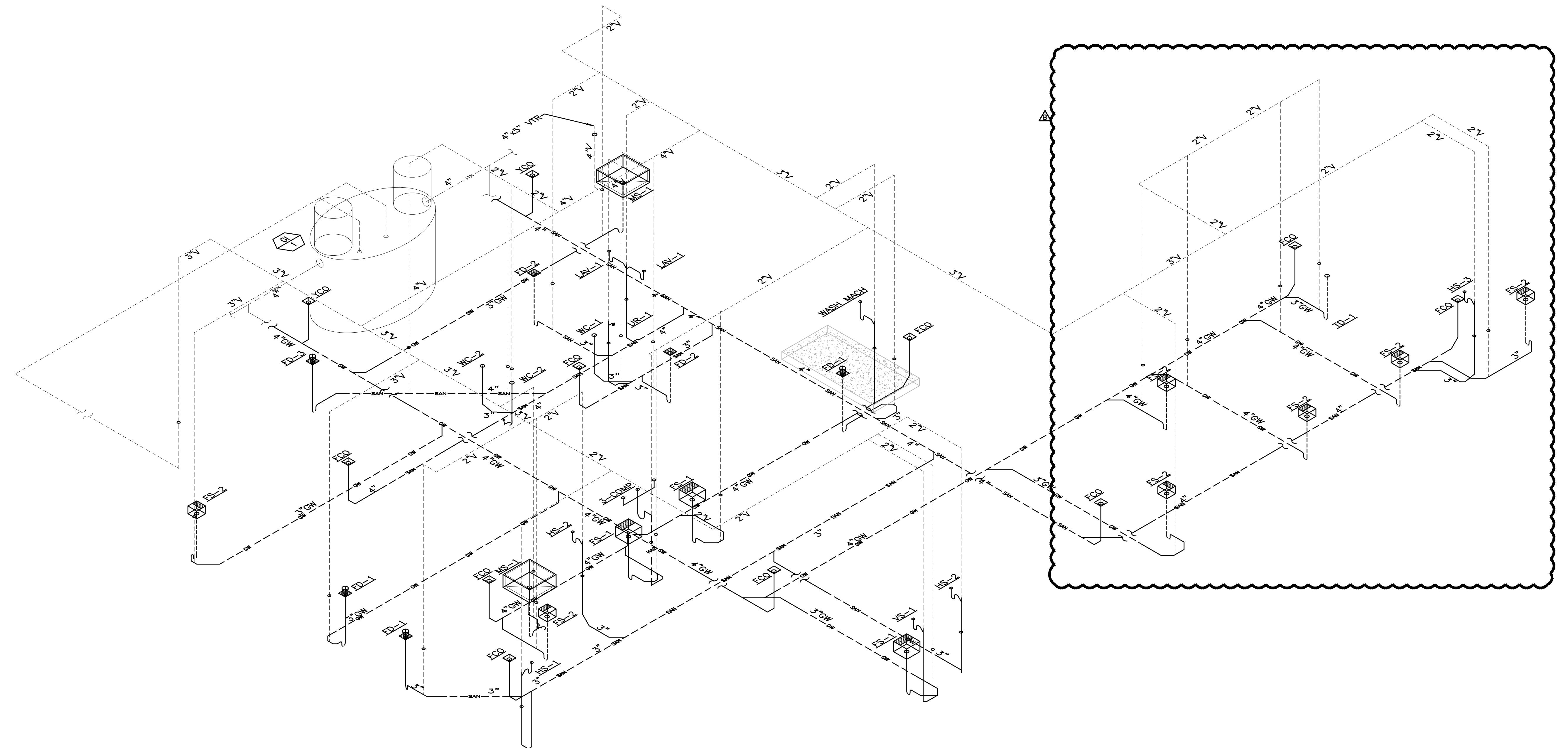
| PLUMBING SCHEDULE |     |                                                        |          |         |          |    |    |                |            |          |                                                                                                                         |                                                                         |
|-------------------|-----|--------------------------------------------------------|----------|---------|----------|----|----|----------------|------------|----------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| TAG #             | QTY | DESCRIPTION                                            | GAS TYPE | GAS BTU | GAS SIZE | HW | CW | MISC PLBG      | HGT AFF    | DRAIN    | REQUIREMENTS & REMARKS                                                                                                  |                                                                         |
|                   |     |                                                        | -        | -       | -        | -  | -  | 3/8" CO2       | SEE RMKS   | -        | DN CHASE FROM BULK CO2 - IF NO CHASE RUN IN 2"COND TO JB -BSI TO CONN CO2 LINE PER LOCAL CODES                          |                                                                         |
| 010.10P1          | 1   | CO2 DRIVEN KETCHUP DISPENSERS                          | -        | -       | -        | -  | -  | 6" PVC CONDUIT | SEE RMKS   | -        | ABOVE CEILING FROM SODA SYSTEM - TERMINATE AT CHASE                                                                     |                                                                         |
| 020.01P3          | 2   | AUTOMATED BEVERAGE SYSTEM 2.0                          | -        | -       | -        | -  | -  | 1/4" TRTD      | SEE RMKS   | -        | DN CHASE FROM SODA SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI CONN CW LINE PER LOCAL CODES. 1/4" R.O. WATER OPTIONAL |                                                                         |
| 021.01P1          | 3   | COFFEE BREWER (GLASS DECANTERS)                        | -        | -       | -        | -  | -  | 1/4" TRTD      | SEE RMKS   | -        | DN CHASE FROM SODA SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI CONN CW LINE PER LOCAL CODES. 1/4" R.O. WATER OPTIONAL |                                                                         |
| 021.09P1          | 1   | HOT WATER DISPENSER                                    | -        | -       | -        | -  | -  | 3/8" R.O.      | SEE RMKS   | -        | DN CHASE FROM SODA SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI CONN CW LINE PER LOCAL CODES. 1/4" R.O. WATER OPTIONAL |                                                                         |
| 023.10P1          | 1   | ESPRESSO BREWER                                        | -        | -       | -        | -  | -  | 1/2" FLTR      | SEE RMKS   | -        | DN CHASE FROM R.O. SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI CONN CW LINE PER LOCAL CODES                           |                                                                         |
| 024.01P1          | 1   | ORANGE JUICE DISPENSER                                 | -        | -       | -        | -  | -  | 1/2" FLTR      | SEE RMKS   | -        | DN CHASE FROM SODA TOWER CW LINE W/ RECIRC/CHILLED INSULATED BUNDLE-BSI CONN CWLINE,LOCAL CODES PERMITTING              |                                                                         |
| 025.07P1          | 1   | INFUSION TEA BREWER - MIS                              | -        | -       | -        | -  | -  | 1/2" TRTD      | 3/8" CO2   | SEE RMKS | DN CHASE FROM SODA SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI CONN CW LINE PER LOCAL CODES                           |                                                                         |
| 028.15P3          | 1   | NOT USED                                               | -        | -       | -        | -  | -  | SODA BUNDLE    | SEE RMKS   | 3/4" IND | DN CHASE FROM SODA SYSTEM - BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES                                               |                                                                         |
| 031.03P1          | 1   | SODA SYSTEM PACKAGE<br>B.I.B.(RECIRCULATING- 3 TOWERS) | -        | -       | -        | -  | -  | 3/8" OUTLET    | SEE RMKS   | -        | FLEX LINE OVERHEAD TO VARIOUS EQUIP. BSI TO MAKE FINAL CONN PER LOCAL CODES                                             |                                                                         |
| 031.03P3          | 1   | SODA SYSTEM PACKAGE<br>B.I.B.(RECIRCULATING- 3 TOWERS) | -        | -       | -        | -  | -  | SODA BUNDLE    | SEE RMKS   | -        | OVERHEAD TO SODA TOWER CHASE(S) - BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES                                         |                                                                         |
| 031.03P4          | 1   | SODA SYSTEM PACKAGE<br>B.I.B.(RECIRCULATING- 3 TOWERS) | -        | -       | -        | -  | -  | 3/4"           | -          | 1'-6"    | 3/4" IND                                                                                                                | BSI TO MAKE CONNECTION FROM BACKFLOW PREVENTER (VERIFY HEIGHT IN FIELD) |
| 031.03P8          | 1   | SODA SYSTEM PACKAGE<br>B.I.B.(RECIRCULATING- 3 TOWERS) | -        | -       | -        | -  | -  | REFRIG LINES   | SEE RMKS   | -        | FROM REMOTE CONDENSING UNIT                                                                                             |                                                                         |
| 032.02P1          | 1   | REVERSE OSMOSIS WATER FILTRATION SYSTEM - TANKLESS     | -        | -       | -        | -  | -  | 3/8" FLTR      | SEE RMKS   | -        | FLEX LINE OVERHEAD FROM SODA SYSTEM -BSI TO MAKE FINAL CONN PER LOCAL CODES                                             |                                                                         |
| 032.02P2          | 1   | REVERSE OSMOSIS WATER FILTRATION SYSTEM - TANKLESS     | -        | -       | -        | -  | -  | 3/8" OUTLET    | SEE RMKS   | -        | FLEX LINE OVERHEAD TO RAPID STEAMER, ESPRESSO, AND COFFEE (OPT.) -BSI TO MAKE FINAL CONN PER LOCAL CODES                |                                                                         |
| 032.02P3          | 1   | REVERSE OSMOSIS WATER FILTRATION SYSTEM - TANKLESS     | -        | -       | -        | -  | -  | -              | 1/4" WASTE | -        |                                                                                                                         |                                                                         |
| 032.04P1          | 1   | WATER FILTRATION SYSTEM                                | -        | -       | -        | -  | -  | 3/4" INLET     | 6'-0"      | -        | -                                                                                                                       |                                                                         |
| 032.04P2          | 1   | WATER FILTRATION SYSTEM                                | -        | -       | -        | -  | -  | 3/4" OUTLET    | -          | -        | 3/4" GHT RINSE CONN. FLEX LINE OVHD. TO RAPID STEAMER, ESPRESSO, & COFFEE (OPT.) -BSI TO MAKE FINAL CONN PER LOCAL CODE |                                                                         |
| 038.00P1          | 1   | CLEAN IN PLACE PANEL                                   | -        | -       | -        | -  | -  | 1/2" FLTR      | -          | 6'-0"    | -                                                                                                                       | FOR CLEANING BULK COKE TANKS. INSTALL HEIGHT TO BOTTOM OF UNIT          |

| PLUMBING SCHEDULE                                                                    |     |                                                       |          |         |          |    |           |              |            |                                                                                                                           |                                                                                                       |                                                                                                                         |
|--------------------------------------------------------------------------------------|-----|-------------------------------------------------------|----------|---------|----------|----|-----------|--------------|------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| VIF = Verify in Field<br>PC = Plumbing Contractor<br>BSI = Beverage System Installer |     |                                                       |          |         |          |    |           |              |            |                                                                                                                           |                                                                                                       |                                                                                                                         |
| REQUIREMENTS & REMARKS                                                               |     |                                                       |          |         |          |    |           |              |            |                                                                                                                           |                                                                                                       |                                                                                                                         |
| TAG #                                                                                | QTY | DESCRIPTION                                           | GAS TYPE | GAS BTU | GAS SIZE | HW | CW        | MISC PLBG    | HGT AFF    | DRAIN                                                                                                                     | REQUIREMENTS & REMARKS                                                                                |                                                                                                                         |
|                                                                                      |     | 039.10P2 1 ICE MACHINE - 1400 LB.                     | -        | -       | -        | -  | 1/2" TRTD | -            | SEE RMKS   | 3/4" IND                                                                                                                  | WATER LINE OVERHEAD FROM SODA SYSTEM - BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES                  |                                                                                                                         |
| TO                                                                                   |     | 039.10P3 1 ICE MACHINE - 1400 LB.                     | -        | -       | -        | -  | -         | REFRIG LINES | -          | -                                                                                                                         | REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT                                              |                                                                                                                         |
| TO                                                                                   |     | 039.15P2 2 ICE MACHINE - 1000 LB.                     | -        | -       | -        | -  | 1/2" TRTD | -            | SEE RMKS   | 3/4" IND                                                                                                                  | WATER LINE OVERHEAD FROM SODA SYSTEM - BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES                  |                                                                                                                         |
| TO                                                                                   |     | 039.15P3 2 ICE MACHINE - 1000 LB.                     | -        | -       | -        | -  | -         | REFRIG LINES | -          | -                                                                                                                         | REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT                                              |                                                                                                                         |
| AL                                                                                   |     | 049.00P1 1 CO2 FILL BOX                               | -        | -       | -        | -  | -         | -            | 3'-4"      | -                                                                                                                         | HEIGHT IS TO BOTTOM OF FILL BOX; SUPPLIED BY MANUFACTURER; INSTALLED BY G.C. SEE BUILDING ELEVATIONS. |                                                                                                                         |
| AL                                                                                   |     | 125.00P1 2 RAPID BUN STEAMER                          | -        | -       | -        | -  | 3/8" R.O. | -            | SEE RMKS   | -                                                                                                                         | BSI EXTENDS CW LINE FROM R.O. SYSTEM & TERM. W/QUICK DISCONN.                                         |                                                                                                                         |
| AL                                                                                   |     | 130.00P1 2 COMBI OVEN                                 | -        | -       | -        | -  | 1/2" FLTR | -            | SEE RMKS   | 1 1/2" IND                                                                                                                | BSI EXTENDS CW LINE OVERHEAD FROM SODA SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF                    |                                                                                                                         |
| AL                                                                                   |     | 130.00P2 2 COMBI OVEN                                 | -        | -       | -        | -  | 3/8" R.O. | -            | SEE RMKS   | -                                                                                                                         | BSI EXTENDS CW LINE OVERHEAD FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF                    |                                                                                                                         |
| R                                                                                    |     | 134.00P1 1 VEGETABLE SINK                             | -        | -       | -        | -  | 3/4"      | -            | 1'-10"     | 1-1/2" IND                                                                                                                | -                                                                                                     |                                                                                                                         |
| LD)                                                                                  |     | 151.46P1 1 SOILED DISHTABLE - RIGHT HAND - 90.5" WIDE | -        | -       | -        | -  | 3/4" 140  | 3/4"         | -          | 1'-6"                                                                                                                     | -                                                                                                     | PC MAKES FINAL CONNECTIONS PER LOCAL CODE                                                                               |
| ICAL                                                                                 |     | 152.05P1 1 WAREWASHER (WITH VAPOR VENT) - UPRIGHT     | -        | -       | -        | -  | 1/2" 140  | 1/2"         | -          | SEE RMKS                                                                                                                  | 2" INDIRECT                                                                                           | PC TO PROVIDE HW, CW, INDIRECT DRAIN PIPING AND MAKE ALL FINAL CONNECTIONS. HW @ 5'-2" AFF, CW @ 4'-10" AFF, DRAIN @ 9" |
| I TO                                                                                 |     | 160.01P1 3 CHEMICAL SYSTEM                            | -        | -       | -        | -  | 3/4" 110  | -            | -          | SEE RMKS                                                                                                                  | -                                                                                                     | PC TO PROVIDE 3/4" MHT. FINAL CONNECTIONS BY EQUIPMENT INSTALLER PER LOCAL CODE, SEE SHEET P3.0 FOR INSTALLATION HEIGHT |
| A                                                                                    |     | 175.11P1 1 COOLER EVAPORATOR                          | -        | -       | -        | -  | -         | -            | 3/4" COND. | PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID-TIGHT SEAL OPENING FOR LINE EXITING BOX                    |                                                                                                       |                                                                                                                         |
|                                                                                      |     | 175.11P3 1 COOLER EVAPORATOR                          | -        | -       | -        | -  | -         | REFRIG LINES | -          | -                                                                                                                         | RUN TO REMOTE CONDENSING UNIT-INSULATE FULL RUN LENGTH-INSTALLED BY REFRIG. CONTRACTOR                |                                                                                                                         |
|                                                                                      |     | 176.21P1 1 FREEZER EVAPORATOR                         | -        | -       | -        | -  | -         | -            | 3/4" COND. | PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID-TIGHT SEAL OPENING FOR LINE EXITING BOX. HEAT TAPE BY REF. |                                                                                                       |                                                                                                                         |
|                                                                                      |     | 176.21P3 1 FREEZER EVAPORATOR                         | -        | -       | -        | -  | -         | REFRIG LINES | -          | -                                                                                                                         | RUN TO REMOTE CONDENSING UNIT-INSULATE FULL RUN LENGTH-INSTALLED BY REFRIG. CONTRACTOR                |                                                                                                                         |
|                                                                                      |     | 205.08P1 1 BIC MACHINE                                | -        | -       | -        | -  | 1/2" FLTR | -            | SEE RMKS   | 1" IND                                                                                                                    | DN CHASE. IF NO CHASE RUN IN 2"COND TO JB - BSI TO CONNECT LINES PER LOCAL CODES                      |                                                                                                                         |
|                                                                                      |     | 205.09P1 1 FROZEN BEVERAGE DISPENSER                  | -        | -       | -        | -  | 1/2" FLTR | 3/8" CO2     | SEE RMKS   | -                                                                                                                         | DN CHASE. IF NO CHASE RUN IN 2"COND TO JB - BSI TO CONNECT LINES PER LOCAL CODES                      |                                                                                                                         |
|                                                                                      |     | 223.07P1 1 WASHER                                     | -        | -       | -        | -  | 3/4" 140  | 3/4"         | -          | 4'-0"                                                                                                                     | 1 1/2" D                                                                                              | SEE PLUMBING DWGS FOR WALL BOX. INSTALL HEIGHT IS TO BOTTOM OF THE BOX                                                  |
|                                                                                      |     | 700.18P1 1 BULK OIL FILL BOX                          | -        | -       | -        | -  | -         | -            | 3'-4"      | -                                                                                                                         | HEIGHT IS TO BOTTOM OF FILL BOX; SUPPLIED BY MANUFACTURER; INSTALLED BY G.C. SEE BUILDING ELEVATIONS. |                                                                                                                         |



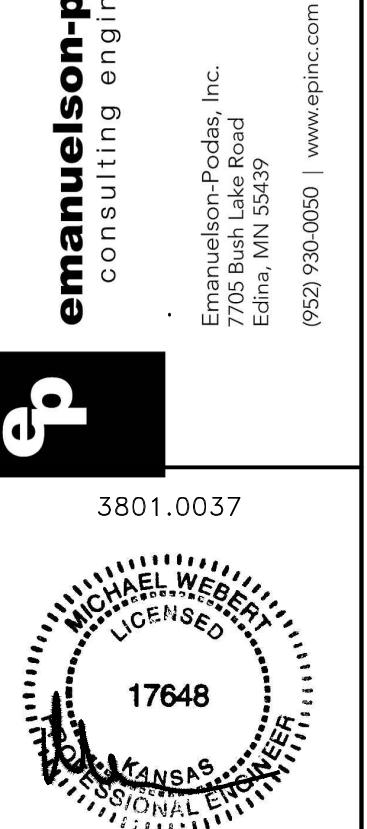
| SHEET NO.     | TITLE                                                                                                                                                | DRAWN BY                                              | PREPARED FOR:                                                                                                                                                                                                                                                                                                                                                                                                                              | BY                                                                           |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 015-0071.00.0 | 2019 STANDARD BUILDING - BB20<br>4597F10-WOOD/WOOD                                                                                                   | M.J.W<br>STD ISSUE DATE<br>2019-11                    | © 2020 McDonald's USA, LLC<br><b>McDonald's USA, LLC</b>                                                                                                                                                                                                                                                                                                                                                                                   | emmanuelson-podas<br>Consulting Engineers                                    |
|               | DESCRIPTION<br>WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH | W.L.W<br>REVIEWED BY<br>DATE ISSUED<br>01-23-20       | These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in conjunction with its issuance. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized. | Emmanuelson-Podas, Inc.<br>Edina, MN 55439<br>(612) 990-0050   www.epinc.com |
|               | SITE ID<br>015-0071                                                                                                                                  | SITE ADDRESS<br>605 SOUTH 7TH STREET, KANSAS CITY, KS | REV DATE<br>01/13/20                                                                                                                                                                                                                                                                                                                                                                                                                       | PERMIT SET<br>01/23/20                                                       |
|               |                                                                                                                                                      |                                                       | PROGRESS SET REVIEW                                                                                                                                                                                                                                                                                                                                                                                                                        | 01/13/20                                                                     |
|               |                                                                                                                                                      |                                                       | REV DATE                                                                                                                                                                                                                                                                                                                                                                                                                                   | BY<br>DATE                                                                   |

| emmanuelson-podas                                                                 |
|-----------------------------------------------------------------------------------|
| Consulting Engineers                                                              |
| Emmanuelson-Podas, Inc.<br>Edina, MN 55439<br>(612) 990-0050   www.epinc.com      |
| 17648                                                                             |
| 3801.0037                                                                         |
| 01/23/20                                                                          |
| 17648<br>MICHAEL WEBER<br>LICENSED<br>KANSAS<br>PROFESSIONAL ENGINEER<br>01/23/20 |



| SHEET NO.     | TITLE                                                                                                                                                | DRAWN BY                                              | PREPARED BY:                                             | REVIEWED BY: | DATE ISSUED | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REV. DATE |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|--------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 015-0071.00.B | 2019 STANDARD BUILDING - BB20<br>4597F10-WOOD/WOOD                                                                                                   | M.J.W<br>2019-11                                      | © 2020 McDonald's USA, LLC<br><b>McDonald's USA, LLC</b> | W.L.W        | 12/03/20    | Waste & Vent Isometric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |
|               | DESCRIPTION<br>WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH |                                                       |                                                          |              |             | These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in conjunction with the issued date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized. |           |
|               | SITE ID<br>015-0071                                                                                                                                  | SITE ADDRESS<br>605 SOUTH 7TH STREET, KANSAS CITY, KS |                                                          |              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |
|               |                                                                                                                                                      |                                                       | R#19175                                                  |              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |

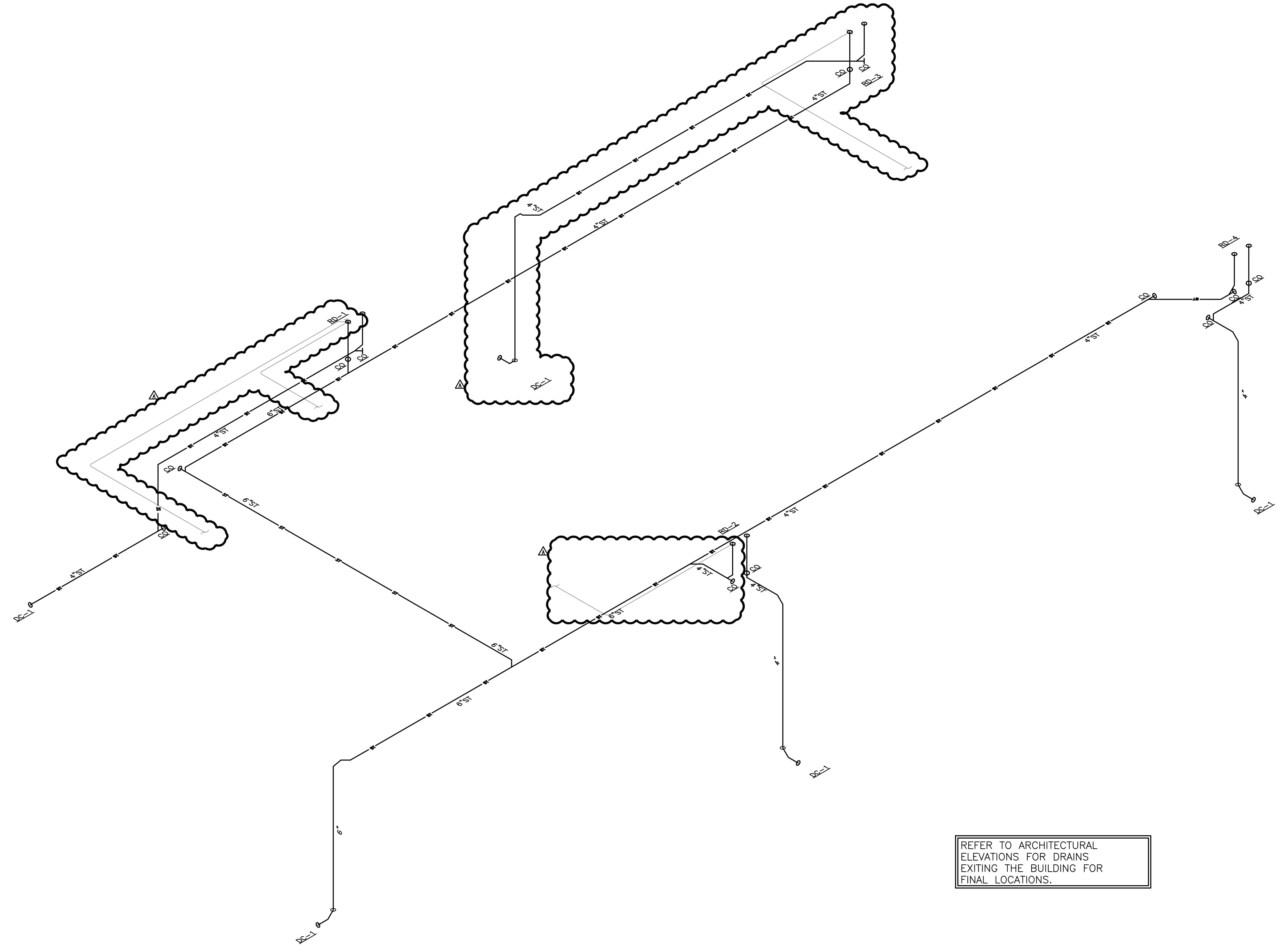
|     |          |                              |
|-----|----------|------------------------------|
| △   | 12/03/20 | SERVICE AREA OPTIMIZATION    |
| △   | 11/13/20 | USRD SAO SET REVIEW          |
| △   | 05/05/20 | CIVIL & PLAN REVIEW COMMENTS |
| △   | 01/23/20 | PERMIT SET                   |
| △   | 01/13/20 | PROGRESS SET REVIEW          |
| REV | DATE     | DESCRIPTION                  |



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17648

12/03/20



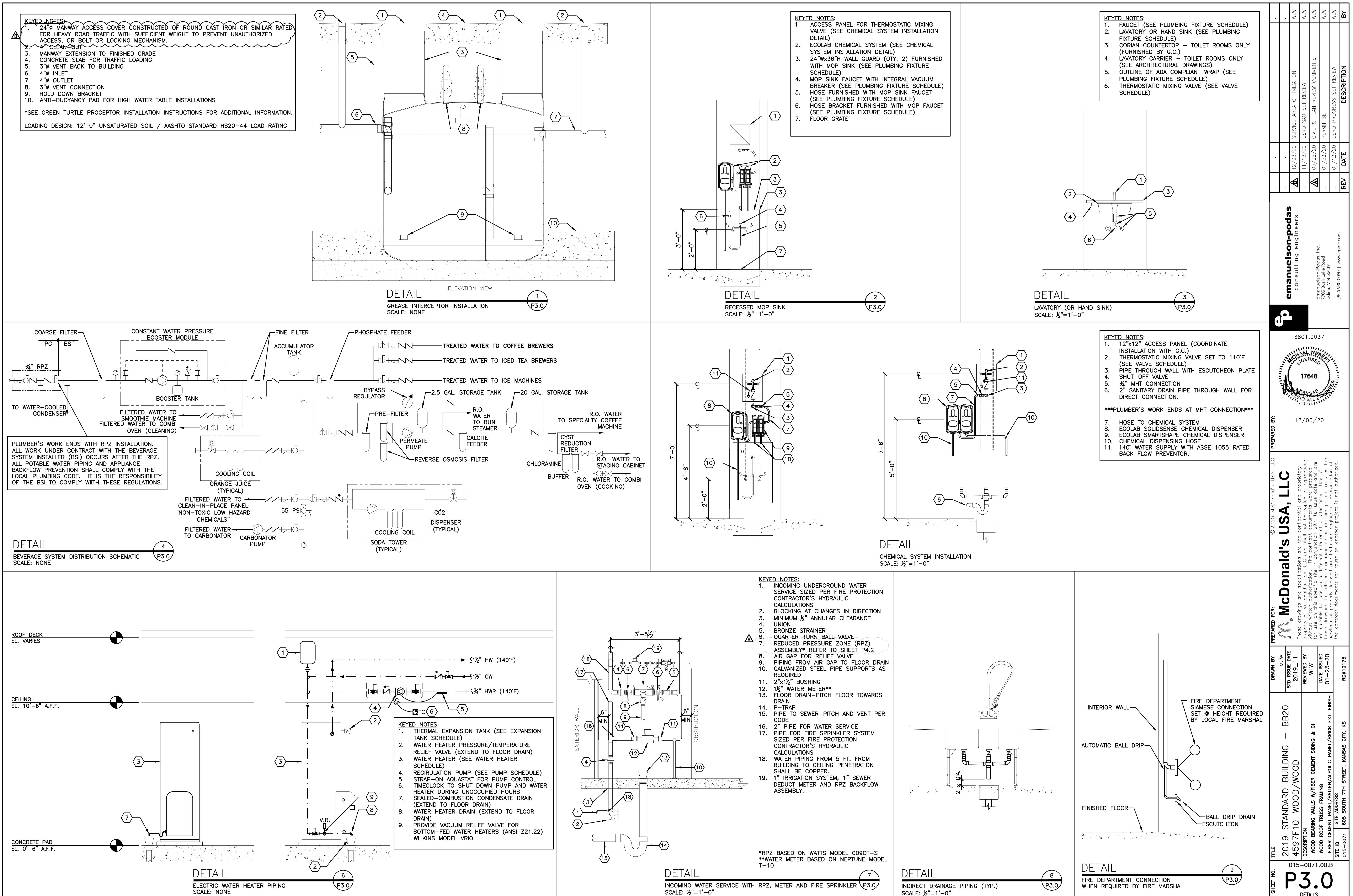
REFER TO ARCHITECTURAL  
ELEVATIONS FOR DRAINS  
EXITING THE BUILDING FOR  
FINAL LOCATIONS.

**1** STORM PIPING ISOMETRIC  
P2.2 NO SCALE

|                               |                                                                                                                                       |                           |                    |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|
| 2019 STANDARD BUILDING — BB20 |                                                                                                                                       | STD ISSUE DATE<br>2019_11 | REVIEWED BY<br>WLW |
| 4597F10—WOOD/WOOD             |                                                                                                                                       | DATE ISSUED<br>01-23-20   |                    |
| DESCRIPTION                   | WOOD BEARING WALLS W/FIBER CEMENT SIDING & Ci<br>WOOD ROOF TRUSS FRAMING<br>FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH |                           |                    |
| SITE ID                       | SITE ADDRESS                                                                                                                          |                           |                    |
| 015-0071                      | 605 SOUTH 7TH STREET                                                                                                                  | KANSAS CITY               | KS                 |
| 015-0071.00.A                 |                                                                                                                                       |                           |                    |

**P2.2**  
STORM ISOMETRIC

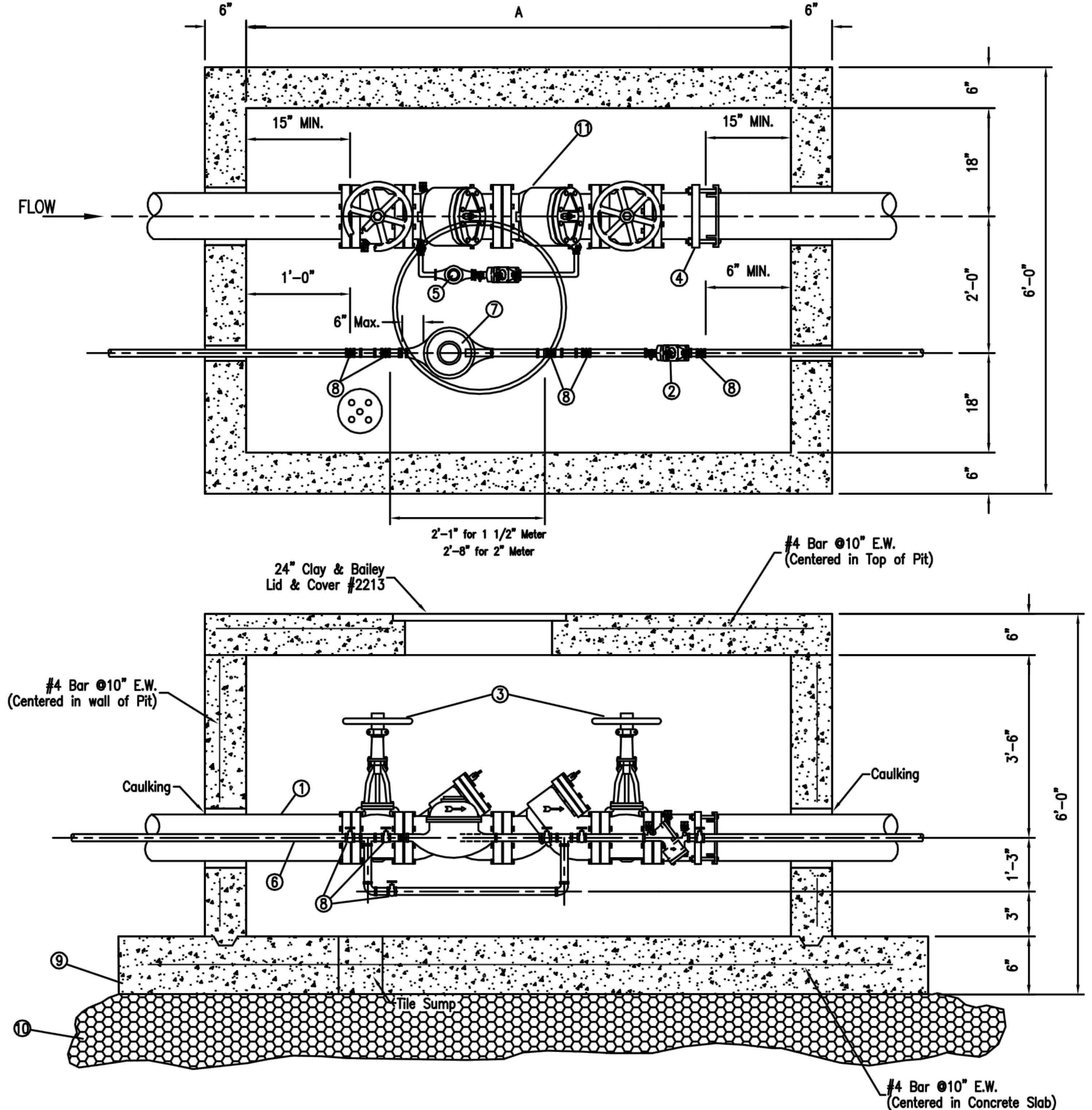
The logo for McDonald's USA, LLC, featuring a stylized 'M' icon followed by the company name in a bold, sans-serif font.







DO NOT SCALE DRAWING  
WORK TO DIMENSIONS



LEGEND

- ① Pipe Spool (Flanged Ductile Iron Pipe).
- ② Approved double check valve assembly with 4 test cocks (Fitted with brass plugs).
- ③ O.S.&Y Resilient seated gate valve.
- ④ Rockwell 913 Steel flanged coupling adapter or approved equal.
- ⑤ 5/8" box water meter, Badger Model #25 with read in cubic feet to meet B.P.U. specifications.
- ⑥ Brass pipe or rigid copper tubing (sweat).
- ⑦ Meter installed by B.P.U.
- ⑧ Wheel gate valve or resilient seated ball valve.
- ⑨ 10'-6"x 7'-0"x 6" Reinforced concrete slab.
- ⑩ 12" of 1/2" or 3/4" crushed rock.
- ⑪ Approved double check detector check valve assembly with 4 test cocks(Fitted with brass plugs)

| Dimension A |  |  |
|-------------|--|--|
| 3" - 6"-0"  |  |  |
| 4" - 7"-0"  |  |  |
| 6" - 8"-6"  |  |  |

NOTES

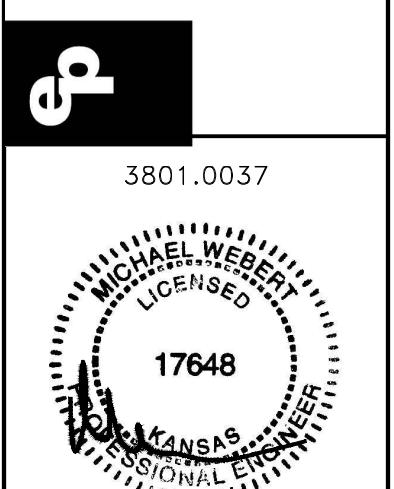
- 1 All backflow prevention assemblies shall be installed horizontally or as approved by BPU.
- 2 Dimension to be determined by unit installed.
- 3 AB-3, CA-5 or gravel will not be allowed as back fill material around water service.

**BOARD OF PUBLIC UTILITIES**  
ENGINEERING & TECHNICAL SERVICES  
KANSAS CITY, KANSAS  
1 1/2"-2" Meter w/ 3", 4", & 6"  
Double Check Detector Check  
Valve Assembly

|        |        |      |        |       |       |      |
|--------|--------|------|--------|-------|-------|------|
| DRAWN  | A.A.G. | DATE | 4/1/92 | ENGR. | APPV. | R.W. |
| APPV.  |        | DATE |        |       |       |      |
| REV.   |        | DATE |        |       |       |      |
| TRACED |        | DATE |        |       |       |      |
| SCALE  | NONE   | W.O. |        |       |       |      |

BF-009a

| TITLE                                                     | DETAILS | BY |
|-----------------------------------------------------------|---------|----|
| 2019 STANDARD BUILDING - BB20                             |         |    |
| 4597F10-WOOD/WOOD                                         |         |    |
| STD ISSUE DATE                                            |         |    |
| 2019-11                                                   |         |    |
| REVIEWED BY                                               |         |    |
| WLW                                                       |         |    |
| DESCRIPTION                                               |         |    |
| WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI             |         |    |
| WOOD ROOF TRUSS FRAMING                                   |         |    |
| FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH |         |    |
| SITE ID                                                   |         |    |
| 015-0071-00-A                                             |         |    |
| SITE ADDRESS                                              |         |    |
| 605 SOUTH 7TH STREET, KANSAS CITY, KS                     |         |    |
| 015-0071                                                  |         |    |
| REV. DATE                                                 |         |    |
| 01/13/20                                                  |         |    |
| PROGRESS SET REVIEW                                       |         |    |
| 01/23/20                                                  |         |    |
| PERMIT SET                                                |         |    |
| 01/23/20                                                  |         |    |
| CIVIL & PLANT REVIEW COMMENTS                             |         |    |
| 05/05/20                                                  |         |    |
| EMANUELSON-PODAS CONSULTING ENGINEERS                     |         |    |
| Emmanuelson-Podas, Inc.                                   |         |    |
| Edwards, IN 46513                                         |         |    |
| (920) 930-0050   www.eppnc.com                            |         |    |

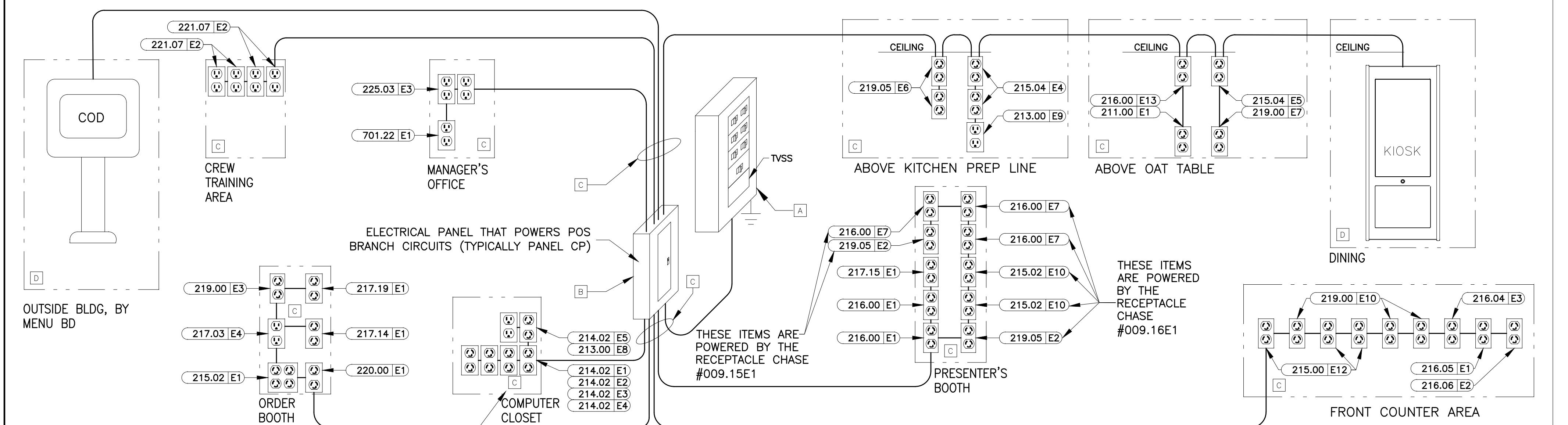


05/05/20

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**McDonald's USA, LLC**  
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DRAWN BY: M.J.W.  
STD ISSUE DATE: 2019-11  
REVIEWED BY: WLW  
DATE ISSUED: 01-23-20  
DWG. NO.: R0f1975

THE PURPOSE OF THIS SHEET IS TO PROVIDE A CHECKLIST AND VISUAL GUIDE SO THE INSTALLING EC CAN VERIFY THE WORK IS IN COMPLIANCE WITH MCDONALD'S SPECIFICATIONS THAT ARE CRITICAL TO THE PROPER FUNCTIONING OF OUR POINT OF SALE (POS) COMPUTER SYSTEMS.



### POS ELECTRICAL RISER DIAGRAM

THIS RISER DIAGRAM SHOWS THE ELECTRICAL ROUGH-INS REQUIRED FOR A TYPICAL POINT OF SALE (POS) SYSTEM IN A FREE STANDING 2 BOOTH RESTAURANT. VERIFY ALL POS ROUGH-INS AND MOUNTING HEIGHTS WITH THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION DRAWINGS.

### LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION

#### GENERAL/MATERIALS

- THE CC OR EC SHALL FURNISH AND INSTALL A COMPLETE LOW VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZING CADDY-ERICO TYPE CAT-32 J-HOOK SUPPORTS (2-INCH DIAMETER LOOP MINIMUM). ALL J-HOOKS SHALL:
  - HAVE A MINIMUM BEARING SURFACE OF  $\frac{1}{32}$ "
  - HAVE FLARED EDGES TO PREVENT DAMAGE TO HIGH PERFORMANCE CABLES,
  - HAVE AN ELECTRO-GALVANIZED FINISH,
  - HAVE 3/8" WIDE CABLE RETAINING STRAPS,
  - BE UL LISTED AND LABELED,
  - BEAR THE UL SYMBOL MARKING ON THE PART FOR IDENTIFICATION
  - BE INSTALLED PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
- THE ENTIRE INSTALLATION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), NEC SECTION 800, BICSI STANDARDS 568 & 569, ALL APPLICABLE NATIONAL, STATE, LOCAL, AND SAFETY CODES, AND MCDONALD'S SPECIFICATIONS.

#### INSTALLATION

- LOW VOLTAGE J-HOOK CABLE PATHWAY (FOR POS CABLING SYSTEM) SHALL BE PROVIDED FROM THE MANAGERS OFFICE (OR COMPUTER CLOSET) DATA CONDUIT STUB-UP LOCATION TO THE FOLLOWING DATA CONDUIT STUB-UP LOCATIONS (AS APPLICABLE):
  - FRONT COUNTER,
  - PRESENTERS BOOTH,
  - CASHIERS BOOTH,
  - THIRD DRIVE-THRU WINDOW(IF PRESENT).
  - CREW ROOM,
  - VALENCE WALL,
  - REMOTE ORDERING STATIONS,
  - NETPOF TELEPHONE PANEL LOCATION.
- CABLE SUPPORTS SHALL BE PROVIDED WITHIN 24 INCHES OF THESE STUB-UP LOCATIONS. ALL STUB-UP CONDUITS SHALL BE PROVIDED WITH AN INSULATED BUSHING TO PROTECT CABLES DURING INSTALLATION.
- ALL NON-POS LOW VOLTAGE CABLING SHALL BE INSTALLED IN A SEPARATE CABLE MANAGEMENT SYSTEM INDEPENDENT OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZED FOR THE POS CABLING.
- THE POS INSTALLER SHALL BE RESPONSIBLE TO FURNISH AND INSTALL ALL LOW VOLTAGE CABLING REQUIRED FOR THE COMPLETE AND FULLY FUNCTIONAL OPERATION OF THE POS SYSTEM. ALL POS CABLING SHALL BE INSTALLED WITHIN THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM.

### ELECTRICAL POS CERTIFICATION

AS OF THE DATE BELOW, I HEREBY CERTIFY THAT ALL ELECTRICAL WORK, ELECTRICAL SERVICE AND ELECTRICAL SYSTEMS, MATERIALS AND LABOR RELATED TO THE POS ELECTRICAL INSTALLATION IN WHICH THE UNDERSIGNED ARE DIRECTLY OR INDIRECTLY RESPONSIBLE HAVE BEEN PROPERLY INSTALLED IN FULL COMPLIANCE WITH ALL CONSTRUCTION DOCUMENTS AND ALL NFPA BUILDING, ELECTRICAL AND OTHER APPLICABLE CODES, ALONG WITH ALL OF THE REQUIREMENTS OUTLINED ON THIS DRAWING. I FURTHER CERTIFY THAT THE ELECTRIC SERVICE POWERING THE POS SYSTEM HAS BEEN PROPERLY INSTALLED BY A QUALIFIED ELECTRICIAN. SKILLED, KNOWLEDGEABLE AND TRAINED TO INSTALL ALL THE REQUIRED ELECTRICAL DISTRIBUTION COMPONENTS NECESSARY TO POWER THE POINT OF SALE (POS) SYSTEM.

GENERAL CONTRACTOR: \_\_\_\_\_  
BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

ELECTRICAL CONTRACTOR: \_\_\_\_\_  
BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

THE EC SHALL COMPLETE THE BELOW CHECKLIST TO VERIFY COMPLIANCE WITH MCDONALD'S SPECIFICATIONS.

IF YOU HAVE ANY QUESTIONS REGARDING THE PLANS, PLEASE CALL THE DESIGNER.  
DESIGNER: Wendy Wenborg  
PHONE: 952-540-4047  
EMAIL: wwenborg@epinc.com

START HERE

#### A VISUALLY INSPECT THE MAIN ELECTRICAL PANEL (MDP)

YES NO N/A

- IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
- DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
- DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
- DOES THE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIPE) TERMINATE ON THE EQUIPMENT GROUND BAR?
- IS THERE AN APPROPRIATE ELECTRICAL CONNECTION (BOND) BETWEEN THE NEUTRAL BAR AND THE EQUIPMENT GROUND BAR?
- DOES THE GROUNDING SYSTEM COMPLY WITH MCDONALD'S "BUILDING ELECTRICAL GROUNDING DETAIL"?
- IS A SURGE PROTECTOR INSTALLED THAT COMPLIES WITH MCDONALD'S "TVSS INSTALLATION GUIDE" OR DETAIL?
- ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
- ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?

#### B VISUALLY INSPECT THE PANEL "CP" THAT POWERS POS

YES NO N/A

- IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
- IS AN ISOLATED GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY INSULATED FROM THE PANEL?
- DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
- DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
- DO ALL ISOLATED GROUND CONDUCTORS (GREEN W/YELLOW STRIPE) TERMINATE ONLY TO THE ISOLATED GROUND BAR?
- ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
- ARE ALL POS & COD CIRCUIT BREAKERS ON THE SAME PANEL?
- ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
- DO ALL POS & COD CIRCUIT BREAKERS HAVE A LOCKING MECHANISM ON THEIR HANDLES TO PREVENT THEM FROM BEING SHUT OFF BY MISTAKE?
- DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL ONE EQUIPMENT GROUND AND ONE ISOLATED GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED (SEE POS & COD ISO GND/DED CKT DETAIL)?

#### ISOLATED GROUND SYMBOLS

| SYMBOL | DESCRIPTION |
|--------|-------------|
|        | IG4710      |
|        | IG4700A     |
|        | IG5261      |
|        | IG5262      |

DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, OR SHOWN ON DRAWINGS BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS. IF NOT OTHERWISE DIRECTED, INSTALLATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE WORK DESCRIBED IN THE SPECIFICATIONS IS IN CONFLICT WITH THE WORK SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL SUPPLY THE GREATER QUANTITY, QUALITY AND COST VIA THE BID AND CONTACT THE ENGINEER FOR CLARIFICATION ON DIRECTION PRIOR TO INSTALLATION.

PRIOR TO BID, THE CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND KITCHEN EQUIPMENT DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL RELEVANT WORK IN THE ENTIRE SET OF DOCUMENTS AND REPORT ALL DISCREPANCIES BETWEEN THESE DRAWINGS TO THE ENGINEER PRIOR TO BIDDING FOR CLARIFICATION. IF DISCREPANCIES REMAIN UNRESOLVED DUE TO A SHORT TIME FRAME, THE CONTRACTOR SHALL INCLUDE THE MOST WORK AND THE HIGHER COSTS IN THE BID. SOLUTIONS TO UNREPORTED DISCREPANCIES WILL BE DETERMINED BY THE ARCHITECT/ENGINEER, WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.

REWORK ELECTRICAL SYSTEM TO BRING INTO COMPLIANCE WITH MCDONALD'S SPECIFICATIONS

ALL WORK IS NOT CONSIDERED TO MEET MCDONALD'S SPECIFICATIONS UNTIL THE INSTALLED ELECTRICAL SYSTEM SUPPORTS A "YES" ANSWER FOR ALL QUESTIONS ASKED.

AS PART OF THIS PROCESS, THE EC AND THE GC WILL BE REQUIRED TO SIGN THE ELECTRICAL CERTIFICATION DOCUMENT INDICATING THAT THE INSTALLED ELECTRICAL SYSTEM MEETS MCDONALD'S SPECIFICATIONS.

VISUALLY INSPECT ALL REMAINING ELECTRICAL SUBPANELS

YES NO N/A

- IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
- DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
- DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
- ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
- ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
- DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL AND ONE EQUIPMENT GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED? (SEE BUILDING ELECTRICAL GROUNDING DETAIL)

#### C VISUALLY INSPECT THE POS BRANCH CIRCUITS

YES NO N/A

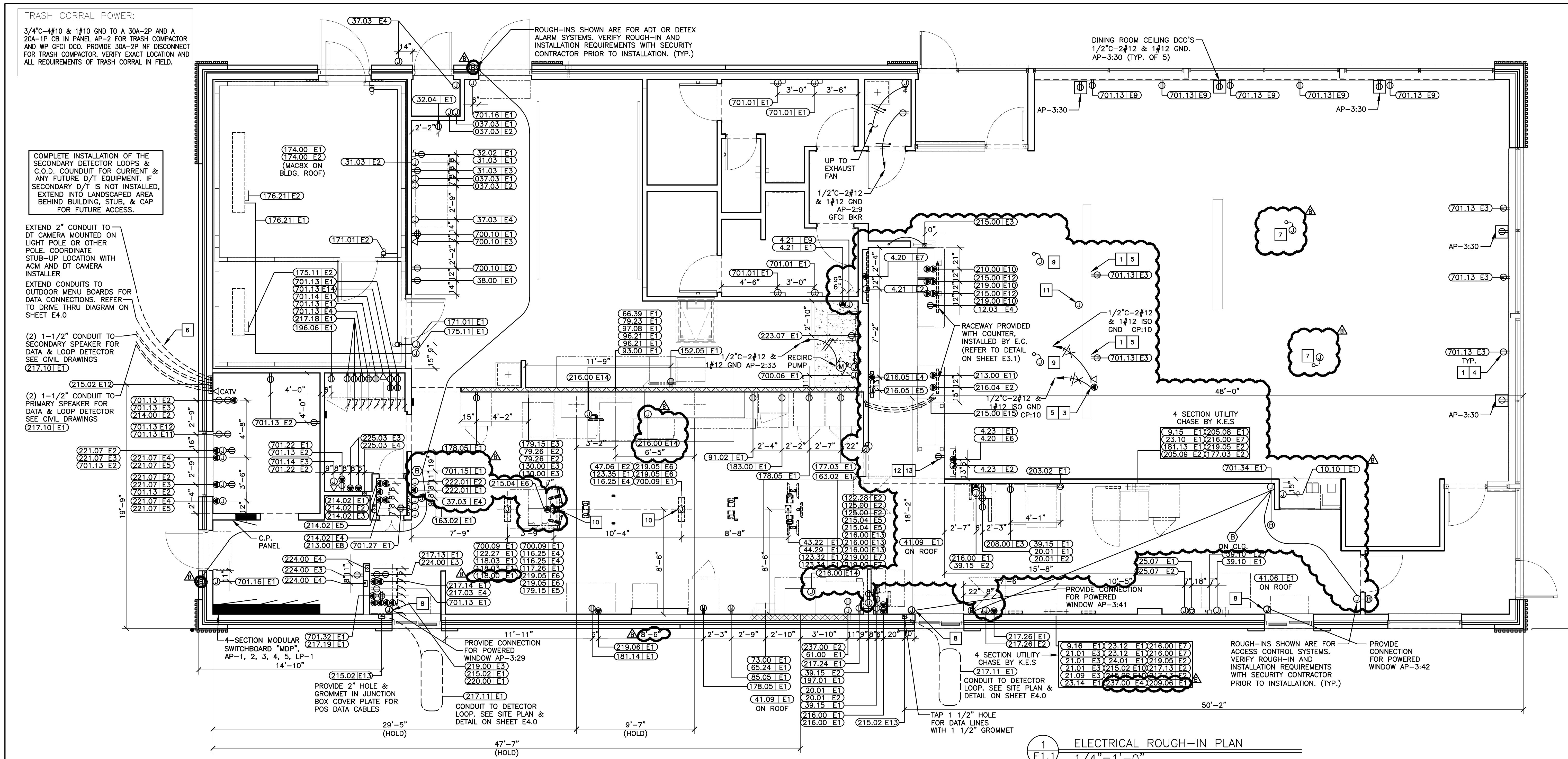
- ARE THE POS BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
- IF THE POS BRANCH CIRCUIT IS ROUTED ABOVE GRADE, IS IT IN A METALLIC CONDUIT?
- DOES EACH POS BRANCH CIRCUIT CONTAIN: ONE PHASE (BLACK COLORED INSULATION) ONE NEUTRAL (WHITE COLORED INSULATION) ONE EQUIPMENT GROUND (GREEN COLORED INSULATION) ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION).
- DO ALL POS BRANCH CIRCUITS TERMINATE AT EITHER AN IG4700, IG4710, IG5261, IG5262 RECEPTEACLES OR ANY COMBINATION OF THESE?
- ARE ALL ELECTRICAL TERMINATIONS TO IG RECEPTACLES MADE WITH SOLID #12 AWG WIRE CAPTURED AROUND THE SCREW BARREL AND SUITABLY TIGHTENED?
- ARE ALL BRANCH CIRCUIT CONNECTIONS PROPERLY TIGHTENED?
- ARE THE CORRECT AMOUNT AND TYPE OF IG RECEPTACLES PROVIDED AS SHOWN IN THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION?
- DO ALL POS RECEPTACLES HAVE ORANGE "COMPUTER ONLY" COVERPLATES?
- DO ALL POS BRANCH CIRCUITS COMPLY WITH THE "POS & COD ISOLATED GND/DEDICATED CIRCUIT" DETAIL?

#### D VISUALLY INSPECT THE POS BRANCH CIRCUIT FOR THE COD

YES NO N/A

- ARE THE COD BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
- DOES EACH COD BRANCH CIRCUIT CONTAIN:
  - ONE PHASE (BLACK COLORED INSULATION),
  - ONE NEUTRAL (WHITE COLORED INSULATION),
  - ONE EQUIPMENT GROUND (GREEN COLORED INSULATION),
  - ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION).
- IS THE COD POWERED FROM THE SAME PANEL AS THE POS?
- DOES THE BREAKER FOR THE COD HAVE A LOCKING MECHANISM ON ITS HANDLE THAT WILL PREVENT IT FROM BEING SHUT OFF?
- DO THE COD BRANCH CIRCUIT(S) COMPLY WITH THE "POS & COD ISOLATED GND/DEDICATED CIRCUIT" DETAIL?
- IF THE COD HAS AN OPTICAL ISOLATOR, IS A STRAIGHT BLADE ISOLATED GROUND RECEPTACLE ON AN ISOLATE GROUND/DEDICATED CIRCUIT PROVIDED FOR IT?

|                                                             |  |                                                                         |  |
|-------------------------------------------------------------|--|-------------------------------------------------------------------------|--|
| PREPARED BY:                                                |  | McDonald's USA, LLC                                                     |  |
| MICHAEL WEBER, LICENSED                                     |  | 17648                                                                   |  |
| 13801.0037                                                  |  | 01/23/20                                                                |  |
| EMMANUELSON-PODAS CONSULTING ENGINEERS                      |  | EMMANUELSON-Podas, Inc., Edina, MN 55459 (952) 930-0050   www.epinc.com |  |
| DRAWN BY: MRV                                               |  | STD ISSUE DATE: 2019-11                                                 |  |
| REVIEWED BY: WLW                                            |  | DATE ISSUED: 01-23-20                                                   |  |
| FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH |  | REF# 1975                                                               |  |
| SHEET NO. 015-0071.00.0                                     |  | TITLE: 2019 STANDARD BUILDING - BB20                                    |  |
| DESCRIPTION: WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI  |  | DESCRIPTION: WOOD ROOF TRUSS FRAMING                                    |  |
| SITE ID: 015-0071                                           |  | SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS                     |  |



#### SYMBOLS AND ABBREVIATIONS

| SYMBOL | DESCRIPTION                                                                                | SYMBOL   | DESCRIPTION                      |
|--------|--------------------------------------------------------------------------------------------|----------|----------------------------------|
| \$     | SINGLE POLE SWITCH, 3W=THREE WAY SWITCH, K=KEYED SWITCHED, VS=VACANCY SENSOR               | (B)      | BUZZER                           |
| \$T    | MANUAL SWITCH (T= THERMAL OVERLOADS)                                                       | (B)      | BUTTON FOR BUZZER                |
| □      | TRANSFORMER                                                                                | (○)      | PULLBOX                          |
| ○      | JB WITH DUPLEX CONVENIENCE OUTLET (FLUSH WITH CEILING)                                     | ■        | PANELBOARD                       |
| ○      | JB WITH SINGLE CONVENIENCE OUTLET                                                          | ○        | CIRCUIT BREAKER                  |
| ○      | JB WITH DUPLEX CONVENIENCE OUTLET                                                          | A        | AMPERES                          |
| ○      | JB WITH TWO DUPLEX CONVENIENCE OUTLETS                                                     | ACM      | AREA CONSTRUCTION MANAGER        |
| ○      | JB WITH SPECIAL PURPOSE OUTLET                                                             | AFF      | ABOVE FINISHED FLOOR             |
| ○      | JB WITH ISOLATED GROUND OUTLET (IG) = IG4710, (IG) = IG5261, (IG) = IG4700A, (IG) = IG5262 | C        | CONDUIT                          |
| ▲      | INTERCOM STATION W/ 3/4" C- TO MAIN STATION                                                | CCT      | CIRCUIT                          |
| ●      | TELEPHONE JACK                                                                             | EC       | ELECTRICAL CONTRACTOR            |
| ○      | JUNCTION BOX - WALL OR CEILING MOUNTED                                                     | GC       | GENERAL CONTRACTOR               |
| □      | DISCONNECT SWITCH                                                                          | GFI/GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| ○      | STUB UP THRU ROOF                                                                          | GND      | GROUND                           |
| ○      | THERMOSTAT SENSOR W/ 1/2" C- UP TO CEILING SPACE                                           | IG       | ISOLATED GROUND                  |
| ○      | MOTOR CONNECTION                                                                           | JB       | JUNCTION BOX                     |
| —      | CONDUIT RUN CONCEALED IN CEILING OR WALLS                                                  | KES      | KITCHEN EQUIPMENT SUPPLIER       |
| —      | CONDUIT RUN IN FLOOR SLAB                                                                  | MLO      | MAIN LUGS ONLY                   |
| —X     | HOT (SHORT), NEUTRAL (LONG), EQUIP GRD (LONG WITH DOT), & X' DENOTES ISOLATED GRD          | WP       | WEATHERPROOF                     |
| ○○     | J-BOX WITH FINAL EQUIPMENT CONNECTION                                                      | CO       | CARBON MONOXIDE SENSOR           |
| ○○     | CEILING MOUNTED OCCUPANCY SENSOR                                                           |          |                                  |

#### ADT ROUGH-IN NOTES

1. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH ADT PRIOR TO INSTALLATION TEL. 800-417-8238
2. EC SHALL PROVIDE A 2 GANG 3 25/32" X 3 25/32" X 3 1/2" D JUNCTION BOX AT DOOR FOR INSTALLATION OF DOOR ALARM UNIT. STUB 1/2" C ABOVE CEILING FROM JUNCTION BOX. PROVIDE 1/2" C FROM J-BOX TO DOOR MAGNETIC SWITCH LOCATION.
3. EC SHALL PROVIDE 4" X 4" JUNCTION BOX ABOVE CEILING FOR INSTALLATION OF LOW VOLTAGE TRANSFORMER. VERIFY EXACT LOCATION WITH ADT PRIOR TO INSTALLATION. PROVIDE 1/2" C-2#12 TO LOCKOUT TYPE CB IN PANEL LP-1.

#### GENERAL NOTES

1. SEE SHEET E3.0 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. SEE LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION ON SHEET E1.0 FOR POS, DATA, AND SOUND SYSTEM REQUIREMENTS.
3. GC/EC SHALL COORDINATE LOCATION AND ALL REQUIREMENTS OF CT& METER CABINET WITH LOCAL UTILITY COMPANY. CT & METER CABINET SHALL NOT BE INSTALLED ON D/T SIDE OF BUILDING. GC SHALL PAINT TO MATCH BUILDING COLOR.

#### KEY NOTES

- 1 TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. EC SHALL PROVIDE HUBBELL GFTRST\* (\*": AL=ALMOND, BK=BLACK, BR=BROWN, GR=GRAY, IV=IVORY, LA=LIGHT ALMOND, RD=RED, WH=WHITE). SPECIFIED RECEPTACLE BECOMES DE-ENERGIZED UPON FAILURE OF GFCI DEVICE. NO SUBSTITUTIONS.(TYPICAL)
- 2 SEE POS ELECTRICAL RISER DIAGRAM ON SHEET E1.0. (TYPICAL)
- 3 SEE NOTE FLAT PANEL TELEVISION NOTE ON SHEET E3.1.

#### KEY NOTES

- 4 PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), A MINIMUM OF ONE (1) ADA COMPLIANT ELECTRICAL RECEPTACLE SHALL BE INSTALLED AT AN ACCESSIBLE TABLE. GC/EC SHALL REFERENCE FINAL DECOR PLANS AND PROVIDE RECEPTACLES AS NECESSARY FOR COMPLIANCE. (TYPICAL)
- 5 COORDINATE LOCATION OF RECEPTACLES SO THAT RECEPTACLES ARE LOCATED ON FULL HEIGHT WALLS PER THE DECOR PLAN. STUB UP AND CIRCUIT IN HALF WALL FOR RECEPTACLES NOT ON FULL HEIGHT WALLS. CONFIRM FINAL LOCATIONS WITH DECOR DRAWINGS PRIOR TO ROUGH-IN.
- 6 IF MOUNTED TO A LIGHTING POLE, DT CAMERA SHALL ONLY BE INSTALLED ON A POLE WITH MAXIMUM OF (2) LIGHTING HEADS. PROVIDE ISOLATION OF DT CAMERA MOUNTING HARDWARE AND POLE TO PREVENT BI-METALLIC OR GALVANIC CORROSION.
- 7 EC TO 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. EC SHALL IDENTIFY EXACT LOCATIONS IN FIELD AND WITH DECOR DRAWINGS. PROVIDE ALL NECESSARY MATERIALS AND SUPPORT FOR A COMPLETE AND FULL 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.
- 8 DRIVE THRU WINDOW POWER, CONFIRM REQUIREMENTS WITH MANUFACTURER DRAWINGS.
- 9 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.
- 10 VERIFY DROP CORDS AND RECEPTACLES DO NOT FALL BELOW HEIGHTS LISTED ON E3.0 ELECTRICAL SCHEDULE. RECEPTACLES SHOULD BE LOCATED AT HEIGHTS TO AVOID CONTACT WITH HOT APPLIANCES.

11 PROVIDE J-BOX ABOVE CEILING NEAR KIOSK FOR FUTURE DIGITAL MERCHANDISER. EXTEND CIRCUIT TO THIS LOCATION FROM DIGITAL MERCHANDISER NEAR SERVICE AREA. EXTEND J-HOOKS FROM SERVICE AREA FOR FUTURE DATA CABLES.

12 CONTRACTOR TO PUNCH HOLES IN SERVICE POD FOR CABLE AND CONDUIT ROUTING. UTILIZE BUSHINGS PROVIDED WITH SERVICE POD TO PROTECT CABLES

13 PROVIDE A 5-20R RECEPTACLE FOR DELIVERY POD DOWNLIGHT, F12DP. INSTALL RECEPTACLE AT 7'-6" AFF. PROVIDE 2#12, 1#12GRD IN 1/2" C TO A 20A CIRCUIT FROM THE LP PANEL. REFER TO LIGHTING PLAN FOR CIRCUIT NUMBER.

|               |                                                        |          |                              |
|---------------|--------------------------------------------------------|----------|------------------------------|
| SHEET NO.     | TITLE                                                  | DRAWN BY | REVIEWED BY                  |
| 015-0071.00.B | 2019 STANDARD BUILDING - BB20                          | MRL      | WLW                          |
|               | 4597F10-WOOD/WOOD                                      |          |                              |
|               | WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI          |          |                              |
|               | WOOD ROOF TRUSS FRAMING                                |          |                              |
|               | FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EXTER. FINISH |          |                              |
|               | SITE ADDRESS                                           |          |                              |
| 015-0071      | 605 SOUTH 7TH STREET, KANSAS CITY, KS                  |          |                              |
|               | REV 1975                                               |          |                              |
|               |                                                        | BY DATE  |                              |
|               |                                                        | 12/03/20 |                              |
|               |                                                        | 11/13/20 | USRD SAO SET REVIEW          |
|               |                                                        | 05/05/20 | CIVIL & PLAN REVIEW COMMENTS |
|               |                                                        | 01/23/20 | PERMIT SET                   |
|               |                                                        | 01/13/20 | PROGRESS SET REVIEW          |
|               |                                                        |          | REV DATE                     |

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Matthew W. Mulls  
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12/03/20

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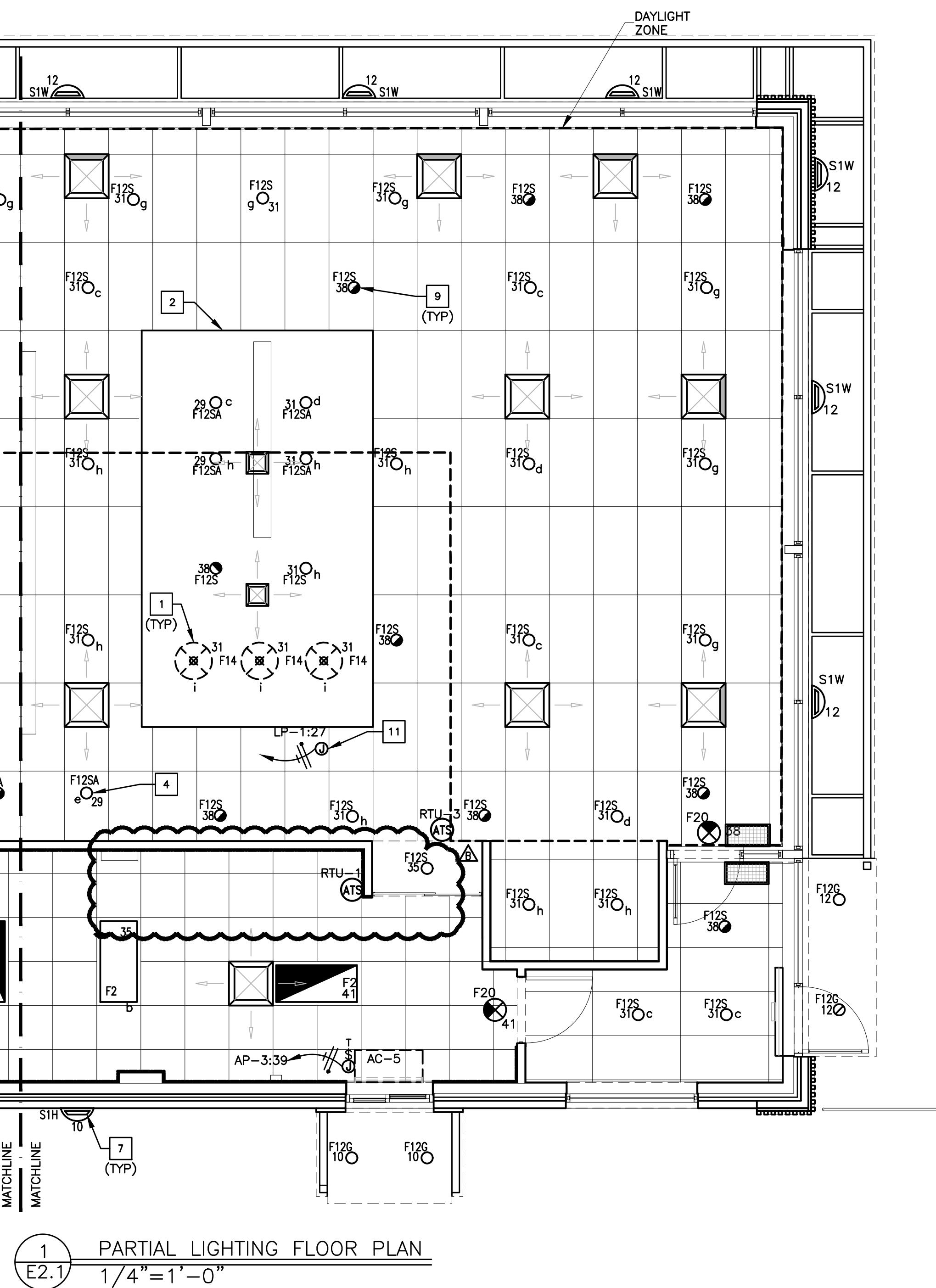
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PB = Pullbox  
JB = Junction Box  
EC = Electrical Contractor  
VIF = Verify in Field

| TAG #    | QTY | DESCRIPTION                        | VOLT/PH        | FLA | BRK SIZE | COND/WIRE   | PNL/CCT | RECEP TYPE  | HGT AFF  | REQUIREMENTS & REMARKS                                                         |
|----------|-----|------------------------------------|----------------|-----|----------|-------------|---------|-------------|----------|--------------------------------------------------------------------------------|
| 701.13E9 | 5   | DCO - GENERAL PURPOSE              | 120/1          | 1.5 | 20A      | 1/2C-2#12   | AP-2:42 | 5-20R       | 1'-6"    | -                                                                              |
| 701.14E1 | 1   | TELEPHONE                          | PHONE BOX      | -   | -        | -           | -       | RJ-11C JACK | 4'-6"    | -                                                                              |
| 701.14E3 | 1   | TELEPHONE                          | PHONE BOX      | -   | -        | -           | -       | RJ-11C JACK | 3'-6"    | -                                                                              |
| 701.15E1 | 1   | DOOR BUZZER                        | 120/1          | .5  | 20A      | 1/2C-2#12   | LP-1:16 | -           | 8'-0"    | CONNECT TRANSFORMER TO POWER & ROUTE LOW VOLTAGE WIRES OVERHEAD TO DOOR BUTTON |
| 701.16E1 | 2   | DOOR ALARM                         | 120/1          | .5  | 20A      | 1/2C-2#12   | LP-1:16 | JB          | SEE RMKS | JUNCTION BOX ABOVE CEILING, PROVIDE LOCKOUT ON CIRCUIT BREAKER HANDLE.         |
| 701.22E1 | 1   | WAYPORT - WIRELESS INTERNET SERVER | 120/1 ISOLATED | 1.5 | 20A      | 1/2C-2#12IG | CP:2    | IG5262      | 8'-0"    | -                                                                              |
| 701.22E2 | 1   | WAYPORT - WIRELESS INTERNET SERVER | DATA CABLE     | -   | -        | -           | -       | JB          | 8'-0"    | EXTEND 1" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLE                          |
| 701.27E1 | 1   | DCO-SATELLITE MUSIC SYSTEM         | 120/1          | 1.0 | 20A      | 1/2C-2#12   | AP-3:6  | (2) 5-20R   | 3'-0"    | PROVIDE DOUBLE DUPLEX WALL PLATE                                               |
| 701.32E1 | 1   | REMOTE ORDER TAKER BATTERY PACK    | 120/1          | 2.0 | 20A      | 1/2C-2#12   | AP-1:9  | (2) 5-20R   | 4'-6"    | PROVIDE DOUBLE DUPLEX WALL PLATE. FIELD VERIFY HEIGHT AND LOCATION WITH ACM    |
| 701.34E1 | 1   | ACCESS CONTROL PANEL               | 120/1          | 2.0 | 20A      | 1/2C-2#12   | LP-1:16 | JB          | 8'-0"    | ROUTE LOW VOLTAGE WIRES TO DOOR BUTTON, HORN AND DOOR STRIKE AS REQUIRED       |

## ELECTRICAL SCHEDULE



|               |                                                    |                           |  |                           |  |                      |  |                                         |  |
|---------------|----------------------------------------------------|---------------------------|--|---------------------------|--|----------------------|--|-----------------------------------------|--|
| SHEET NO.     | TITLE                                              | DRAWN BY                  |  | PREPARED BY:              |  | REVIEWED BY:         |  | APPROVED BY:                            |  |
| 015-0071.00.B | 2019 STANDARD BUILDING - BB20<br>4597F10-WOOD/WOOD | MRL                       |  | McDonald's USA, LLC       |  | W.L.W.               |  | W.L.W.                                  |  |
|               |                                                    | STD ISSUE DATE<br>2019-11 |  | STD ISSUE DATE<br>2019-11 |  | REVISED BY<br>W.L.W. |  | SERVICE AREA OPTIMIZATION<br>11/13/20   |  |
|               |                                                    |                           |  |                           |  |                      |  | USER/SAO SET REVIEW<br>05/05/20         |  |
|               |                                                    |                           |  |                           |  |                      |  | CIVL & PLAN REVIEW COMMENTS<br>01/23/20 |  |
|               |                                                    |                           |  |                           |  |                      |  | PERMIT SET<br>01/13/20                  |  |
|               |                                                    |                           |  |                           |  |                      |  | PROGRESS SET REVIEW<br>01/13/20         |  |
|               |                                                    |                           |  |                           |  |                      |  | REV. DATE<br>BY                         |  |

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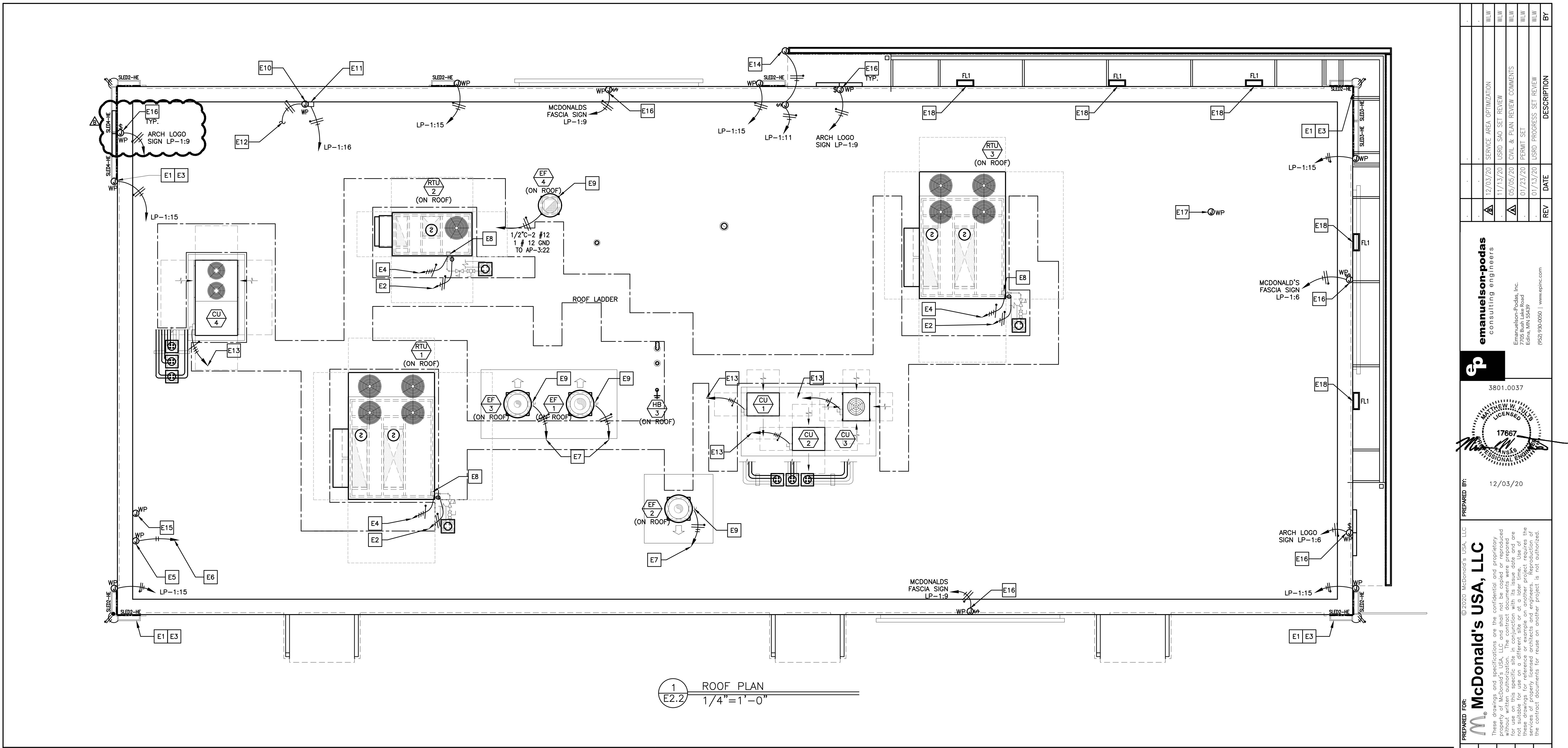
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12/03/20

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McDonald's USA, LLC  
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI  
WOOD ROOF TRUSS FRAMING  
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH  
SITE ID: 015-0071 SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS  
REV. #19175

REFER TO E2.0 FOR NOTES. SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET E2.2) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

**E2.1**  
LIGHTING PLAN



## KEYED NOTES

- E1 EVERY LINEAR RUN OF SLED FIXTURES REQUIRES A DEDICATED WHIP KIT PROVIDED WITH FIXTURE. CONTRACTOR TO FIELD VERIFY FIXTURE MOUNTING HEIGHT, LOCATION, QUANTITY, FIXTURE LENGTHS, AND ALL ELECTRICAL CONNECTION REQUIREMENTS WITH SECURITY LIGHTING PRIOR TO ORDERING AND INSTALLATION (TYPICAL).
- E2 WEATHER PROOF RECEPTACLES WITH GFCI PROTECTION ARE PROVIDED AND MOUNTED WITHIN MOTOR HOUSING LOCATIONS PER NEC ARTICLE 210.63. CIRCUIT SHALL EMANATE FROM PANEL AP-3,CCT.#34.(TYPICAL).
- E3 SMOOTH BRACING IS REQUIRED FOR LED FIXTURE INSTALLATION UNDER COPING/FLASHING.(TYPICAL)
- E4 REFER TO SHEET E4.0 FOR CONDUIT AND WIRE SIZE.(TYPICAL)
- E5 E.C. SHALL PROVIDE A WEATHER-PROOF J-BOX ON INSIDE FACE OF PARAPET, MOUNTED 6" BELOW TOP OF PARAPET FOR LIGHTING CONTROL PANEL PHOTOCELL. (PHOTOCELL FURNISHED BY OTHERS AND INSTALLED BY EC). REFER TO LIGHTING CONTROL DETAILS ON E4.1
- E6 TO LIGHTING ENCLOSURE W/ TIMER. COORDINATE WITH LIGHTING CONTROL DETAILS ON SHEET E4.1
- E7 COOKING EQUIPMENT EXHAUST FANS. SEE SHEET E3.0 FOR ELECTRICAL REQUIREMENTS. SEE SHEET E3.2 FOR EXHAUST FAN INTERLOCK WIRING DIAGRAMS. (TYPICAL)
- E8 PROVIDE NEMA 3R DISCONNECT WITH CURRENT LIMITING FUSES TO COMPLY WITH NEC 110 AND 440. ELECTRICAL CONTRACTOR SHALL STUB UP THRU RACEWAY IN CURB TO ELIMINATE CONDUIT PENETRATION OF ROOFING. (TYPICAL)
- E9 EXTERNAL NEMA 3R MOUNTED ON SIDE OF FAN BY MANUFACTURER. ELECTRICAL CONTRACTOR SHALL STUB UP THRU ROOF AND PROVIDE FLEXIBLE WEATHERPROOF CONDUIT FROM ROOF PENETRATION TO DISCONNECT (TYPICAL).
- E10 E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX ON INSIDE FACE OF PARAPET FOR PHOTOCELL INSTALLATION. MOUNT JB 6" BELOW TOP OF PARAPET. PHOTOCELL FURNISHED AND INSTALLED BY EC. MOUNT FACING NORTH.
- E11 PHOTOCELL ON ROOF (SEE SHEET E2.0 FOR CONTINUATION AT DOOR LOCATIONS).
- E12 TO SOFFIT LIGHT FIXTURES NEAR DOORS. SEE SHEET E2.0 FOR CONTINUATION. TYPICAL FOR CCT LP-1:16.
- E13 REMOTE CONDENSING UNITS. SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.
- E14 CANOPY LIGHT. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH MANUFACTURER. REMOTE POWER SUPPLIES ABOVE ACCESSIBLE CEILING WITHIN VESTIBULE. VERIFY EXACT INFEEF REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)
- E15 E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX WITH 3/4" STUB DOWN TO CEILING SPACE WITH BUSHING FOR ROOF-TOP CAMERA OR SATELLITE. VERIFY EXACT LOCATION(S) WITH MCD AREA CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- E16 E.C. SHALL PROVIDE A JUNCTION BOX FOR ARCH LOGO / McDONALD'S FASCIA / PLAY-PLACE SIGN. SEE NOTE L1 ON SHEET E3.1. COORDINATE EXACT LOCATION IN FIELD WITH ACM. ALL SIGNS PROVIDED WITH INTEGRAL DISCONNECT SWITCH FROM MANUFACTURER.(TYPICAL)
- E17 E.C. SHALL PROVIDE A JUNCTION BOX FOR ROOF-TOP FLAG POLE LIGHTING. VERIFY LOCATION(S) WITH MCD PROJECT MANAGER PRIOR TO INSTALLATION.
- E18 FLOOD LIGHT MOUNTED ABOVE CANOPY. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH ARCHITECTURAL ELEVATIONS. VERIFY EXACT INFEEF REQUIREMENTS IN THE FIELD. SEE FLOOD LIGHT DETAIL ON SHEET E3.1. (TYPICAL)

## DRAWING NOTES

1. SEE DRAWING M-4.0 FOR GENERAL MECHANICAL NOTES.
2. SEE DRAWINGS M-3.0 AND M-4.1 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
3. SEE DRAWING M-4.0 FOR MECHANICAL LEGEND.
4. SEE DRAWING K-2.1 FOR REMOTE CONDENSER AND MAC UNIT INFORMATION.
5. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

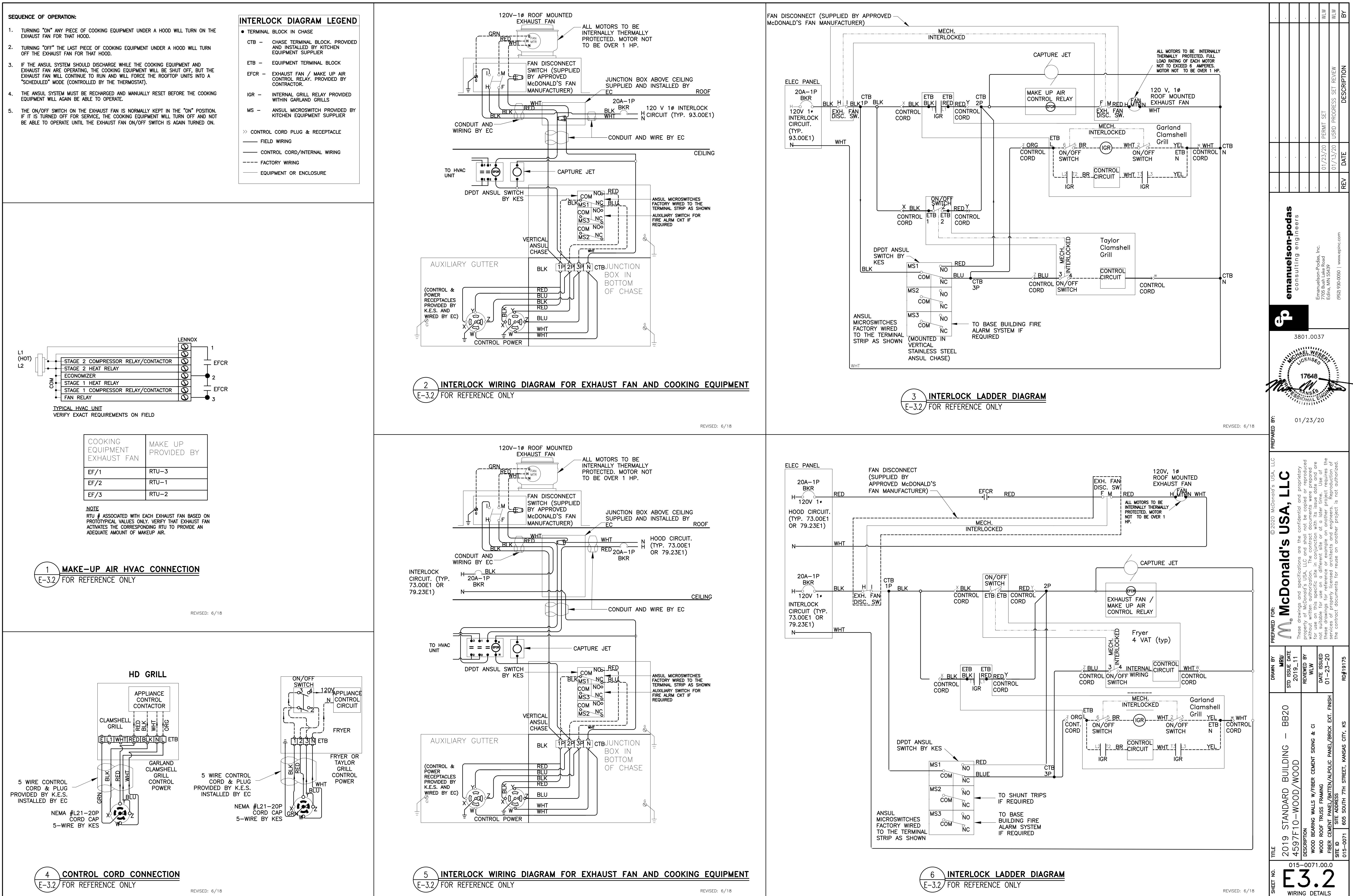
## LED FIXTURE SCHEDULE:

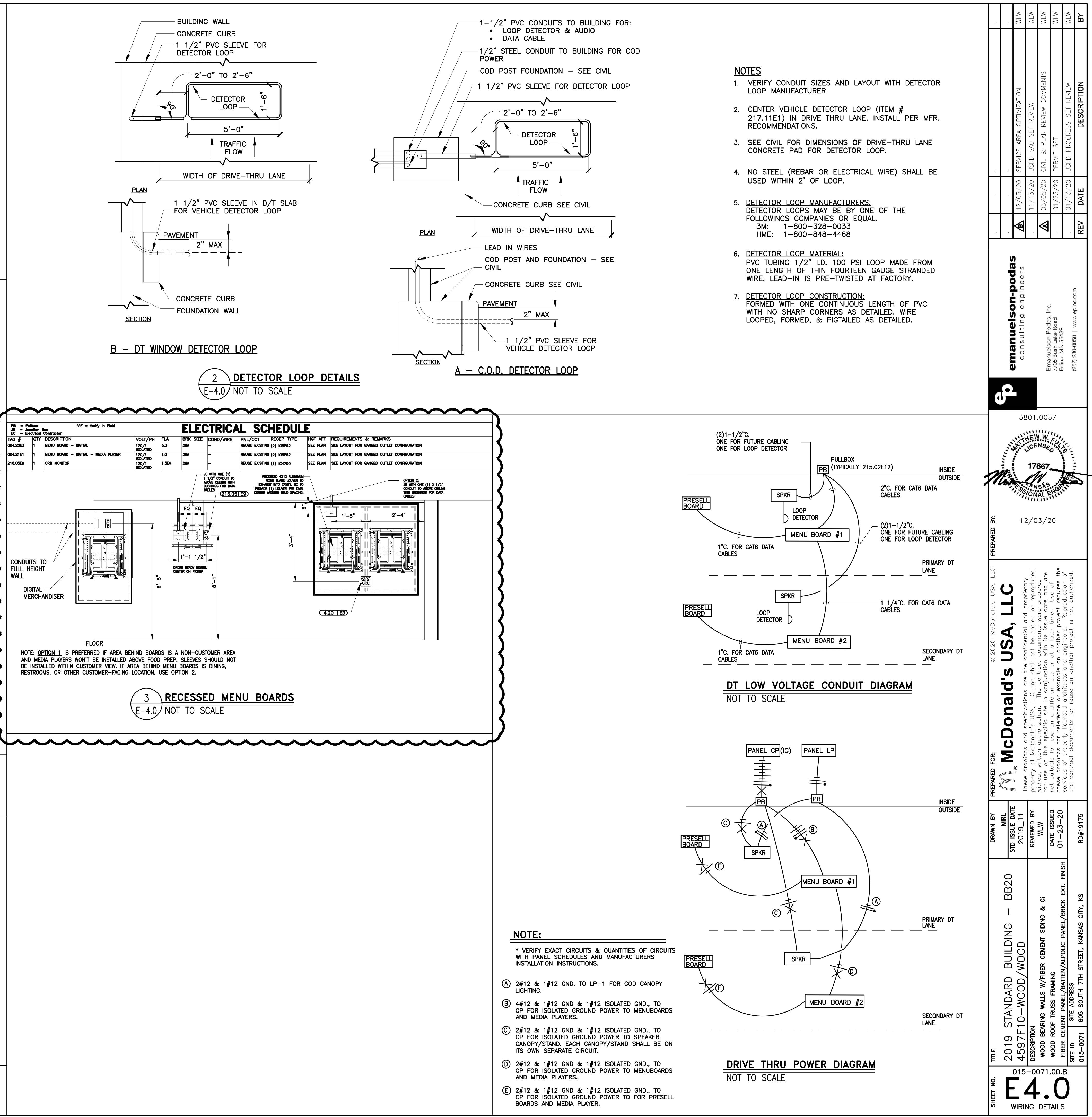
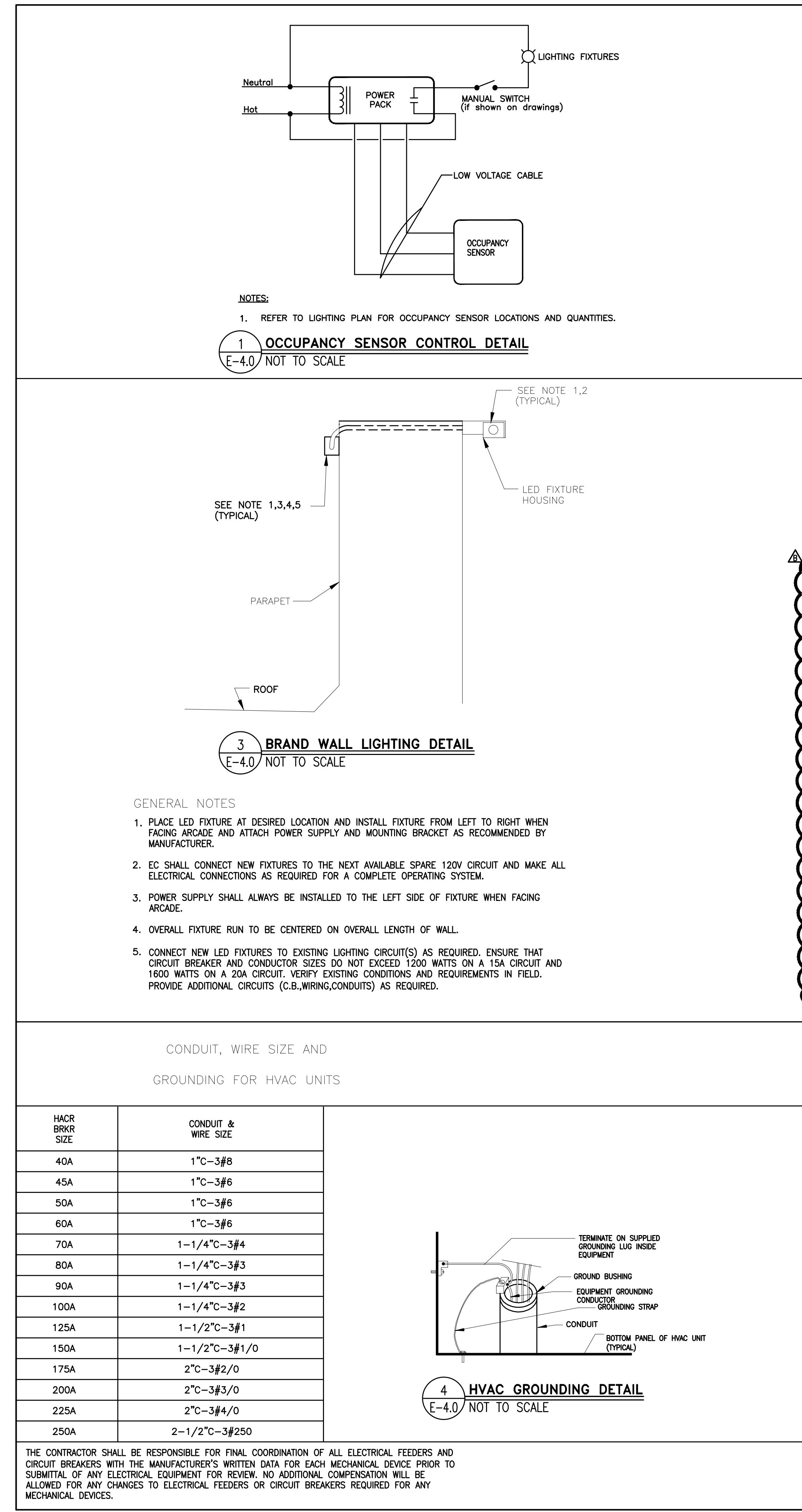
| MARK     | SYMBOL | DESCRIPTION                             | DIFFUSER          | LAMPS<br>WATTS<br>PER<br>Fixture | BALLAST | MOUNTING | MANUFACTURER AND<br>CATALOG NUMBER                                                   |
|----------|--------|-----------------------------------------|-------------------|----------------------------------|---------|----------|--------------------------------------------------------------------------------------|
| SLED3    | ■      | DOWN ONLY ACCENT LIGHTING<br>(SEE PLAN) | TEMPERED<br>GLASS | 1-30W<br>PER<br>Fixture          | LED     | -        | SECURITY LIGHTING: SLED-HE-36-DO-U-I0-C16 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS. |
| SLED2-HE | ■      | DOWN ONLY ACCENT LIGHTING<br>(SEE PLAN) | TEMPERED<br>GLASS | 1-10W<br>PER<br>Fixture          | LED     | -        | SECURITY LIGHTING: SLED-HE-24-DO-U-I0 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.     |
| SLED3-HE | ■      | DOWN ONLY ACCENT LIGHTING<br>(SEE PLAN) | TEMPERED<br>GLASS | 1-14W<br>PER<br>Fixture          | LED     | -        | SECURITY LIGHTING: SLED-HE-36-DO-U-I0 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.     |
| SLED4-HE | ■      | DOWN ONLY ACCENT LIGHTING<br>(SEE PLAN) | TEMPERED<br>GLASS | 1-19W<br>PER<br>Fixture          | LED     | -        | SECURITY LIGHTING: SLED-HE-48-DO-U-I0 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.     |
| FL1      | ■      | UP ONLY ACCENT LIGHTING<br>(SEE PLAN)   | TEMPERED<br>GLASS | 1-16W<br>PER<br>Fixture          | LED     | -        | SECURITY LIGHTING: EL218-W-5-8L-5K-UV-I0-JW10                                        |

|                 |                                                |                |                                       |            |                         |                     |          |
|-----------------|------------------------------------------------|----------------|---------------------------------------|------------|-------------------------|---------------------|----------|
| TITLE           | 2019 STANDARD BUILDING - BB20                  | STD ISSUE DATE | 2019-11                               | DRAWN BY   | MRL                     | REVIEWED BY         | WLW      |
| DESCRIPTION     | WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI | DATE ISSUED    | 01-23-20                              | DEPARTMENT | WOOD ROOF TRUSS FRAMING | PERMIT SET          | 01/23/20 |
| SITE ID         | 015-0071.00.B                                  | SITE ADDRESS   | 605 SOUTH 7TH STREET, KANSAS CITY, KS | REV#       | 19175                   | PROGRESS SET REVIEW | 01/13/20 |
| SHEET NO.       | E2.2                                           |                |                                       |            |                         |                     | BY       |
| ELEC. ROOF PLAN |                                                |                |                                       |            |                         |                     |          |

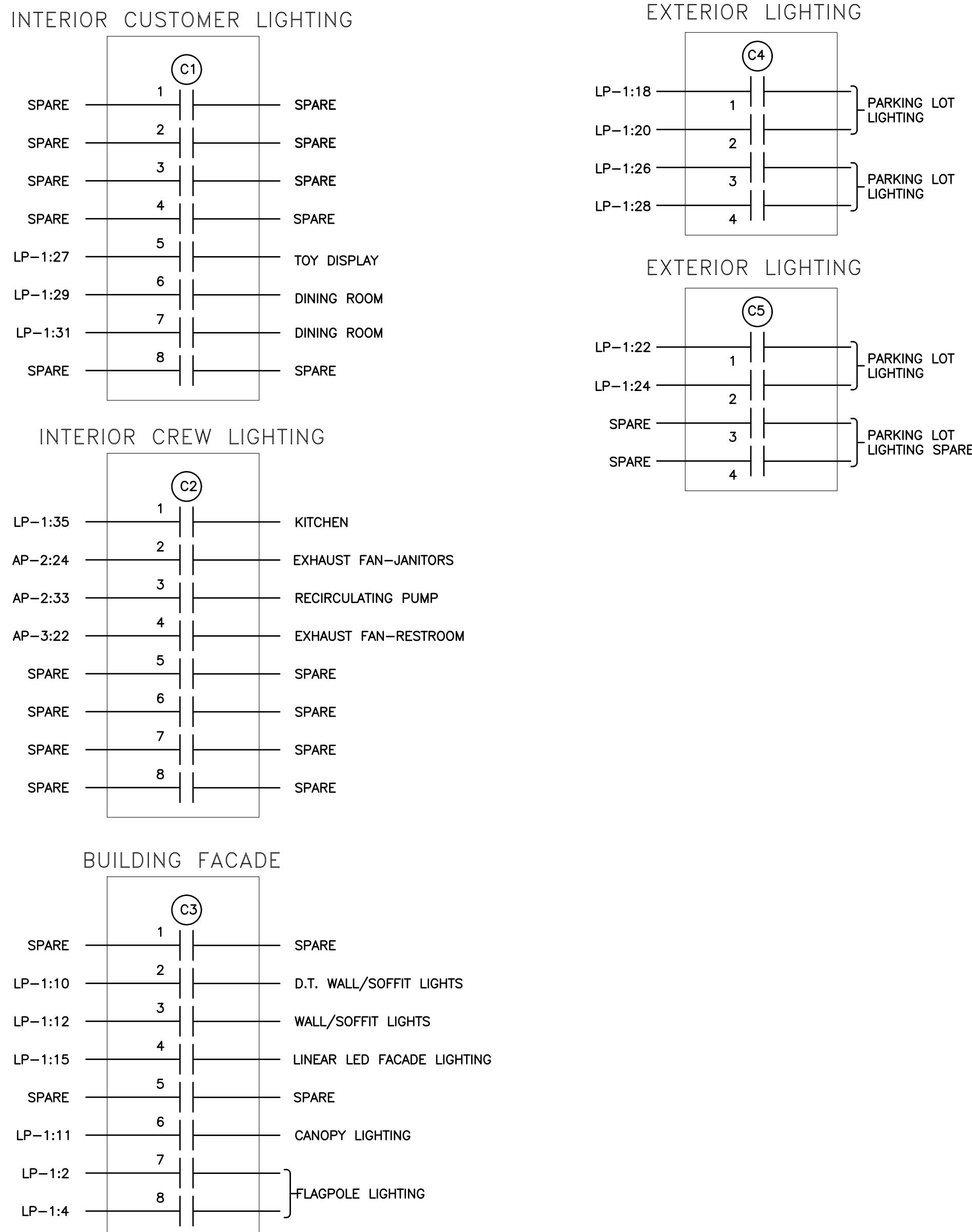








# LIGHTING CONTROL SYSTEM



## LIGHTING CONTROL NOTES:

### LIGHTING CONTROL NOTES

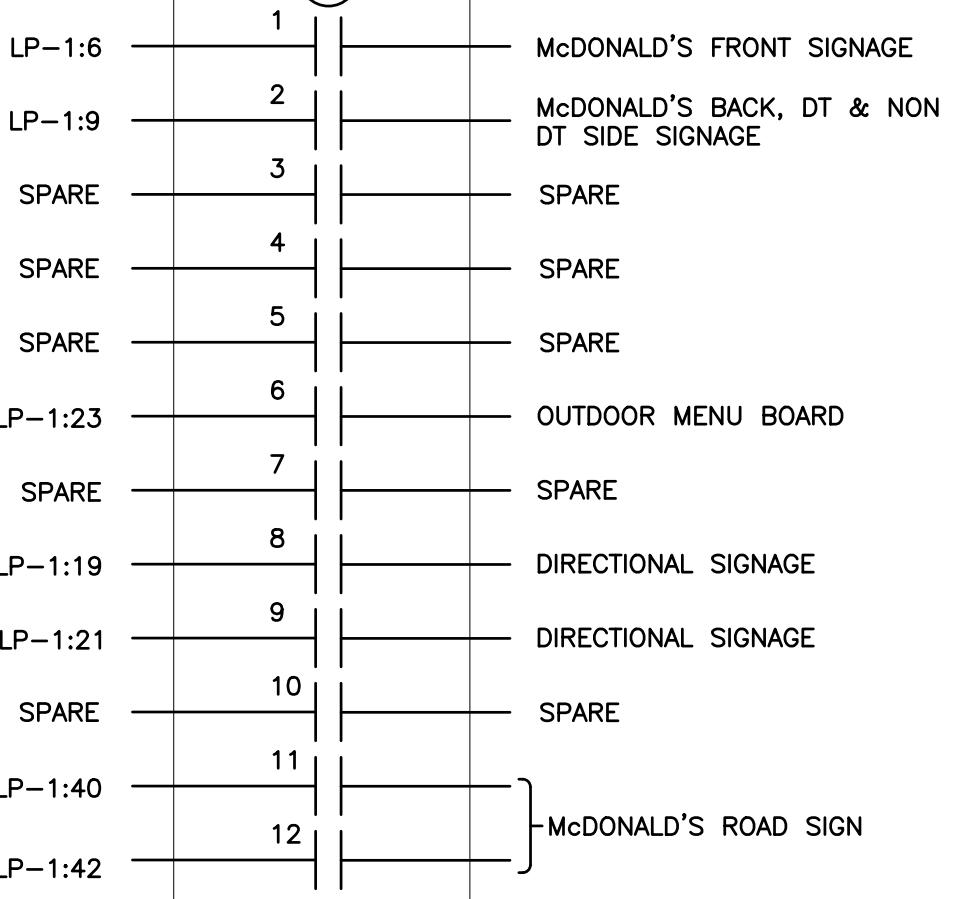
- LC1. CONTACTOR DETAILS ARE DIAGRAMMATIC ONLY AND ARE SHOWN WITH TYPICAL LOADS AND CIRCUIT ASSIGNMENTS. LOADS, CIRCUIT ASSIGNMENTS AND NUMBER OF CONTACTORS MAY VARY BY RESTAURANT LOCATION AND PER EMS SUPPLIERS SYSTEMS. VERIFY EXACT REQUIREMENTS WITH EMS INSTALLATION DETAILS, SITE PLANS, ELECTRICAL PANEL SCHEDULES AND ACM. EC SHALL MAKE ALL MODIFICATIONS AS REQUIRED. FINAL INSTALLATION SHALL BE FULLY NEC AND ENERGY CODE COMPLIANT.
- LC2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, CONNECTIONS, TERMINATIONS, ETC. THAT ARE NOT PROVIDED BY THE EMS SUPPLIER FOR A COMPLETE, FULLY OPERATIONAL AND CODE COMPLIANT LIGHTING CONTROL SYSTEM.

- LC3. ALL COMPONENTS FOR THIS LIGHTING CONTROL SYSTEM SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE BOXED NOTE BELOW FOR OPTIONS.
- LC4. ALL COMPONENTS SHALL BE UL LISTED AND LABELED AND THE SYSTEM SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL ENERGY CODE REQUIREMENTS.
- LC5. ALL CONTACTORS SHALL BE LOCATED IN A NEMA 1 ENCLOSURE WITH SCREW TYPE COVER MOUNTED DIRECTLY ABOVE LIGHTING PANEL OR SWITCHGEAR SO AS TO BE ACCESSIBLE.
- LC6. ALL CONTACTORS SHALL BE RATED FOR 30 AMP LOADS UNLESS NOTED OTHERWISE AND SHALL BE HID RATED WHERE REQUIRED.
- LC7. COIL VoltAGES FOR ALL CONTACTORS SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

### LIGHTING CONTROL INSTALLATION OPTIONS

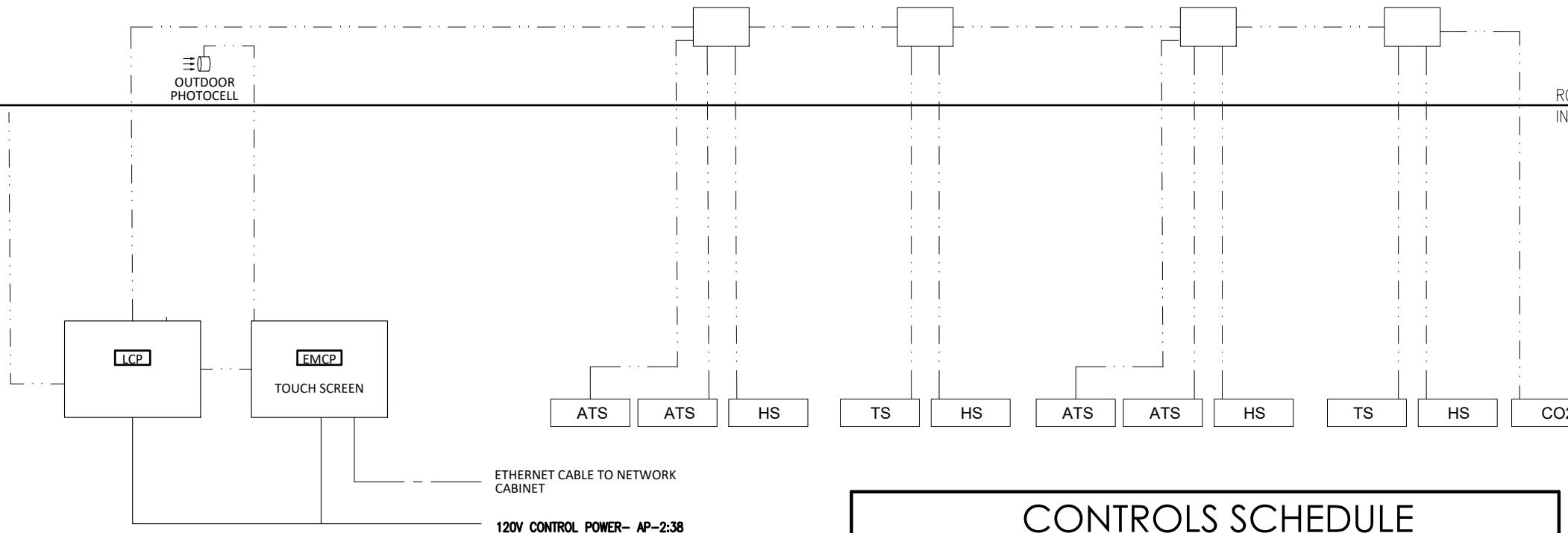
- OPTION 1 (STANDARD) CONTACTORS AND CONTACTOR ENCLOSURE FOR THIS LIGHTING CONTROL SYSTEM SHALL BE FURNISHED BY THE EMS SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR ON SITE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- OPTION 2 (OPTIONAL) LIGHTING CONTROL CAN BE ACCOMPLISHED VIA UTILIZATION OF A SMART TYPE BREAKER PANEL REPLACING STANDARD PANEL LP-1. PANEL SHALL UTILIZE AN INTEGRAL MOTOR OPERATED CIRCUIT BREAKERS OR AN INTEGRAL CIRCUIT BREAKER/CONTACTOR TYPE COMBINATION DEVICE WITH AN INTEGRAL PROGRAMMING CONTROL MODULE AND SHALL BE ORDERED THROUGH OUR ELECTRICAL EQUIPMENT NATIONAL ACCOUNT PROGRAM (SIEMENS OR SQUARE-D) THROUGH OUR CONSTRUCTION PURCHASING TEAM.

# EXTERIOR SIGNAGE



# BUILDING AUTOMATION SYSTEM

INSTALLATION & TECHNICAL ASSISTANCE INFORMATION:  
LENNOX BAS: McD@CCBAC.com



PROVIDE AND INSTALL DATA OUTLET NEXT TO BAS PANEL. REMOTE COMMISSIONING IS NOT POSSIBLE WITHOUT DATA CONNECTION.

### INSTALLATION NOTES:

1. PROVIDE, INSTALL AND SECURE ALL NECESSARY CABLE & CONDUIT PER BAS DRAWINGS AND SPECIFICATIONS.
2. MOUNT ALL BAS CONTROL ENCLOSURES.
3. PERFORM ALL LOW VOLTAGE TERMINATIONS.
4. ROUGH-IN, INSTALLATION AND WIRING FOR TEMPERATURE SENSORS AND TOUCHSCREEN PER PLAN LOCATIONS.
5. PROVIDE POWER CIRCUITS INTO CONTROL CANS PER BAS DETAILS.
6. COORDINATE WITH SUPPLIER TO SCHEDULE REMOTE COMMISSIONING.
7. CORRECT ALL PUNCH LIST ITEMS FOUND DURING REMOTE COMMISSIONING.

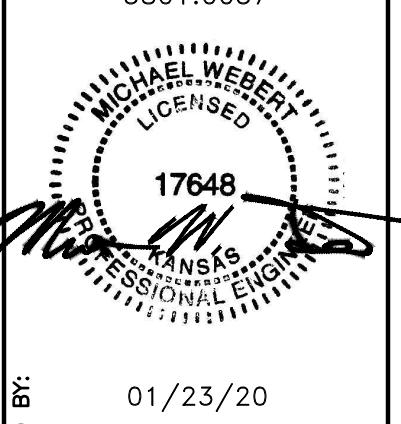
| CONTROLS SCHEDULE |                              |                    |       |
|-------------------|------------------------------|--------------------|-------|
| MARK              | DESCRIPTION                  | MANUFACTURER       | MODEL |
| TS                | TEMPERATURE SENSOR           | *PROVIDED WITH BAS |       |
| ATS               | AVERAGING TEMPERATURE SENSOR | *PROVIDED WITH BAS |       |
| HS                | HUMIDITY SENSOR              | *PROVIDED WITH BAS |       |

NOTES:  
1. FOR TS, HS AND ATS LOCATIONS, REFER TO M1.2

| WIRE LEGEND |                   |
|-------------|-------------------|
| MARK        | WIRE/CABLE TYPE   |
| —           | CAT 5E            |
| — — —       | 18 AWG CONDUCTORS |

| TITLE                                         | DESCRIPTION                           | STD ISSUE DATE | REVIEWED BY | DATE ISSUED | REV DATE | BY |
|-----------------------------------------------|---------------------------------------|----------------|-------------|-------------|----------|----|
| 2019 STANDARD BUILDING - BB20                 |                                       | 2019-11        | WLW         | 01/23/20    |          |    |
| 4597F10-WOOD/WOOD                             |                                       |                |             |             |          |    |
| WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI |                                       |                |             |             |          |    |
| WOOD ROOF TRUSS FRAMING                       |                                       |                |             |             |          |    |
| FIBER CEMENT PANEL/BRICK EX. FINISH           |                                       |                |             |             |          |    |
| SITE ID                                       | SITE ADDRESS                          |                |             |             |          |    |
| 015-0071.00.0                                 | 605 SOUTH 7TH STREET, KANSAS CITY, KS |                |             |             |          |    |

| emmanuelson-podas Consulting Engineers                                         |                                  |
|--------------------------------------------------------------------------------|----------------------------------|
| Emmanuelson-Podas, Inc.<br>Edwards, MN 56339<br>(952) 930-0050   www.epinc.com | 01/13/20 USD PROGRESS SET REVIEW |
| 3801.0037                                                                      | REV DATE                         |



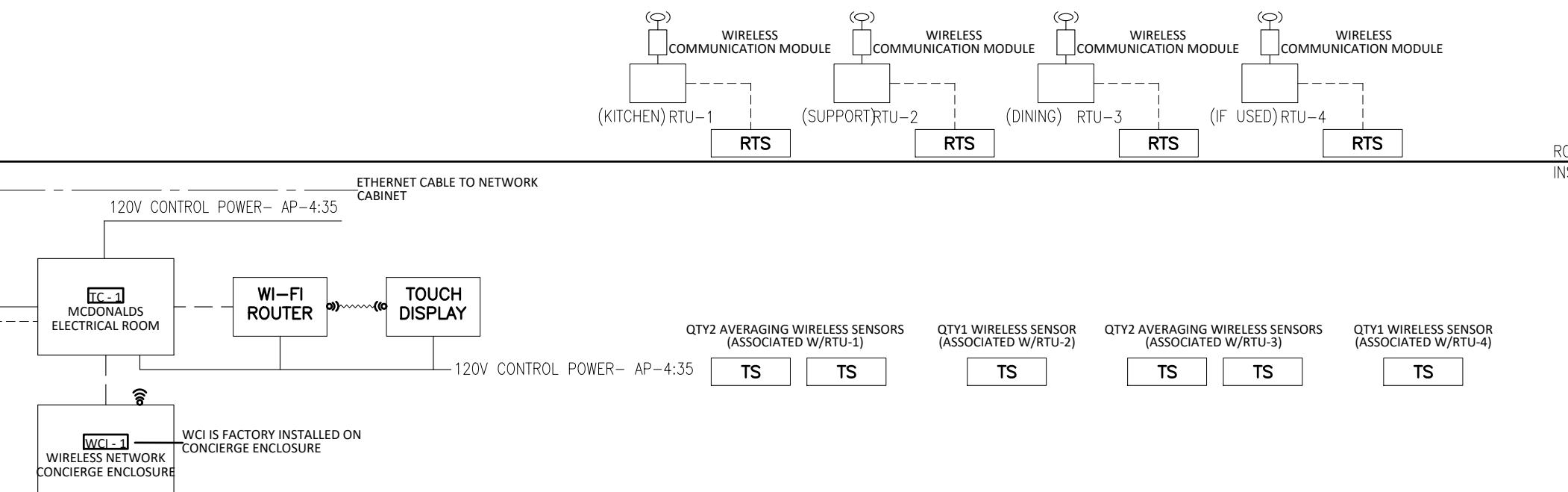
PREPARED BY:  
© 2020 McDonald's USA, LLC

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INSTALLATION & TECHNICAL ASSISTANCE INFORMATION:  
TRANE BAS: McDcontrols@Trane.com



PROVIDE AND INSTALL DATA OUTLET NEXT TO BAS PANEL. REMOTE COMMISSIONING IS NOT POSSIBLE WITHOUT DATA CONNECTION.

### INSTALLATION NOTES:

1. PROVIDE, INSTALL AND SECURE ALL NECESSARY CABLE & CONDUIT PER BAS DRAWINGS AND SPECIFICATIONS.
2. MOUNT ALL BAS CONTROL ENCLOSURES.
3. PERFORM ALL LOW VOLTAGE TERMINATIONS.
4. ROUGH-IN, INSTALLATION AND WIRING FOR TEMPERATURE SENSORS AND TOUCHSCREEN PER PLAN LOCATIONS.
5. PROVIDE POWER CIRCUITS INTO CONTROL CANS PER BAS DETAILS.
6. COORDINATE WITH SUPPLIER TO SCHEDULE REMOTE COMMISSIONING.
7. CORRECT ALL PUNCH LIST ITEMS FOUND DURING REMOTE COMMISSIONING.

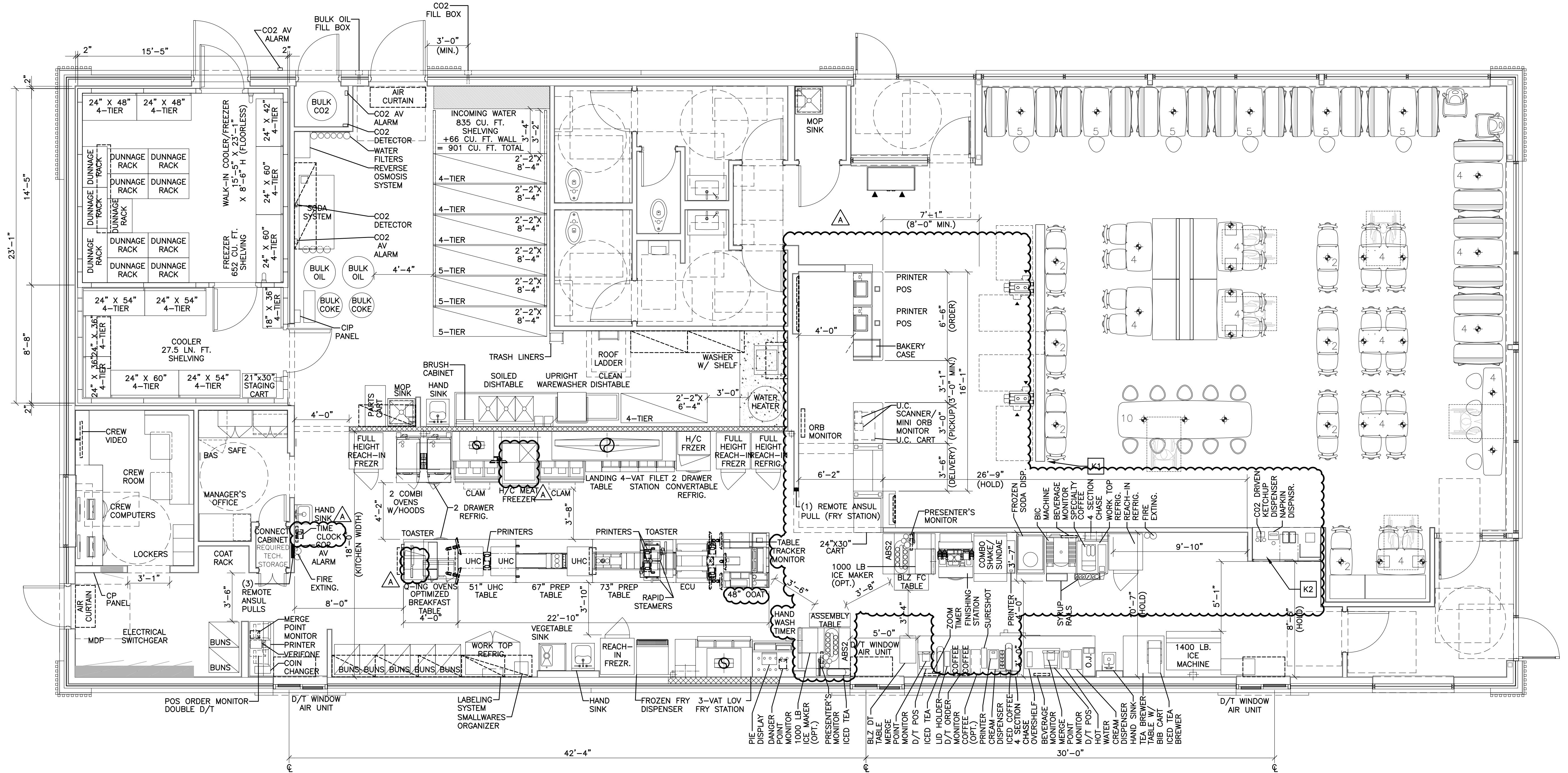
| CONTROLS SCHEDULE |                                   |                                            |       |
|-------------------|-----------------------------------|--------------------------------------------|-------|
| MARK              | DESCRIPTION                       | MANUFACTURER                               | MODEL |
| TS                | WIRELESS SPACE TEMPERATURE SENSOR | *PROVIDED WITH BAS                         |       |
| RTS               | RETURN TEMPERATURE SENSOR         | *PROVIDED WITH BAS                         |       |
| HS                | OUTDOOR TEMP/HUMIDITY SENSOR      | FACTORY FURNISHED AND INSTALLED W/EACH RTU |       |

NOTES:  
1. FOR TS LOCATIONS, REFER TO M1.2  
2. RTS TO BE MOUNTED IN RETURN AIR DUCT OF RTU

| WIRE LEGEND |                   |
|-------------|-------------------|
| MARK        | WIRE/CABLE TYPE   |
| —           | CAT 5E            |
| — — —       | 18 AWG CONDUCTORS |

SHEET NO. 015-0071.00.0  
E4.1  
LIGHTING CONTROLS





**KITCHEN COVER SHEET**

1  
K1.0 1/4" = 1'-0"

**KEYED NOTES**

K1 SEATING AND KIOSKS MUST BE 5'-0" CLEAR FROM BEVERAGE CELL WALL

K2 KES TO ENSURE AMENITY TOWER EQUIPMENT PLACEMENT MEETS ADA REQUIREMENTS

PREPARED FOR: **McDonald's USA, LLC** PREPARED BY:

McDonald's

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| SHEET NO.                | TITLE                                           | DRAWN BY | STD ISSUE DATE | REVIEWED BY | DATE ISSUED | REV. DATE | DESCRIPTION | BY |
|--------------------------|-------------------------------------------------|----------|----------------|-------------|-------------|-----------|-------------|----|
| 015-0071.000<br>015-0071 | 2019 STANDARD BUILDING - BB20<br>4597-WOOD/WOOD | RH       | 2019-11        | RH          | 11 15 2019  | A         | SAO UPDATES |    |

DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI  
ELLS/BATTEN/METAL PANEL/BRICK EXTERIOR FINISH  
SITE ID: 605 South 7th St. Kansas City KS  
K1.0 KITCHEN COVER SHT

