

#### GENERAL NOTES

CONCRETE:

-ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE -MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE OF 100PSF/FT (x2) -SITE SOIL CONDITIONS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER. IF ASSUMED SOIL CONDITIONS ARE NOT PRESENT, FOUNDATION SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER TAKING INTO ACCOUNT ACTUAL SITE SOIL

-TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)

-ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL

-ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR

ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE. -ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION. -TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE. -MINIMUM CONCRETE STRENGTH (f'c=3,000 PSI) SHALL CONFORM WITH MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A -USE OF ADMIXTURES SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 2.6 -AIR ENTRAINMENT SHALL CONFORM WITH MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTIONS 2.6-A & 2.13-A -WATER CONTENT RATIO SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A -FOUNDATION CONCRETE TO BE TESTED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 3.14 -PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED STEEL.

-REINFORCEMENT PLACEMENT SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 3.2 & 3.5. -ANCHOR RODS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE -DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E.

-STEEL PIPE SECTION: ASTM A53 OR A252 TYPE E GRADE B (Fy=35ksi) -HSS ROUND SECTION: ASTM A500 GRADE B (Fy=42ksi) -HSS SQUARE/RECTANGULAR SECTIONS: ASTM A500 GRADE B (Fy=46ksi) -HEADED ANCHOR RODS ASTM F1554 GR 55, AN ACCEPTABLE ALTERNATIVE IS ASTM F1554 GR 55, S1 WHEN THE EMBEDDED END OF THE ROD IS THREADED AND THE NUT TACK WELDED PRIOR TO GALVANIZATION. -STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES AND PLATES: ASTM A36 -REINFORCEMENT: ASTM A615 GRADE 60 -NUTS: ASTM A563A, HEAVY HEX -WASHERS: ASTM F844 A36

-USE ASTM A153 CLASS C HOT DIPPED GALVANIZED BOLTS AND FASTENERS -ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER -NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEER'S

-DO NOT CUT ANCHOR RODS AFTER INSTALLATION OF POLE -AFTER INSTALLATION, ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION. -ANY FIELD WELDING SHALL FIRST BE VERIFIED BY ENGINEER AND PERFORMED IN ACCORDANCE WITH AWS D1.1.

-REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL -CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY. -DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS -ANY MODIFICATIONS ARE TO BE VERIFIED BY AN ENGINEER THIS FOUNDATION TO BE USED ONLY WITH FLORIDA PLASTICS INTERNATIONAL INC.

STANDARD OPO-1 PRESELL BOARD

#### SIDE-BY-SIDE DRIVE-THRU CRITERIA NOTES

- 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".
- THE OVERALL LENGTH OF THE CURBED ISLAND SHOULD BE 35'-45'. THE LENGTH OF THE ISLAND FROM THE CANOPY ALLOWS FOR THREE CARS IN THE SECONDARY LANE, TWO IN THE PRIMARY LANE AND ONE AT THE COMMITMENT POINT. THE RADIUS FOR THE ISLAND TIP SHALL BE 1'-6". THE ISLAND SHALL BE 6'-0" AT THE WIDEST POINT (FACE OF CURB
- 4 6" WIDE YELLOW PAINT STRIPE TO SPAN OUTER EDGE OF THE ENTIRE DRIVE-THRU LANE.
- 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.
- 6 MERGE POINT IS LOCATED WHERE TWO VEHICLES LEAVING EACH CANOPY 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.
- 7 A CIRCLE DIRECTIONAL ARROW CENTERED ABOVE THE WORD "DRIVE THRU" USED TO INDICATE THE DRIVE THRU ENTRY
- 8 MIN. 60'-0" (+5', 60'-65') LINEAR DISTANCE BETWEEN THE CENTER LINE OF THE CANOPY FACE AND THE CENTER LINE OF THE OPEN ORDER WINDOW AS MEASURED ALONG THE CENTER LINE OF THE LANE. THIS MAY ONLY BE INCREASED IN 20'-0" INCREMENTS (± FOR 80', 100', AND 120') TO A MAX OF 120'. 100' IS OPTIMAL.
- 9 THE CENTER OF THE PRIMARY MENU BOARD FOUNDATION IS TO BE 5'-9" (5'-0" MIN. AND 6'-0" MAX.) FROM THE CENTER OF THE CANOPY FOUNDATION, WITH THE END CAP OF THE PRIMARY MENU BOARD NOT LESS THAN 15" FROM 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 CANOPY AND WITH 100% VISIBILITY. THE PRIMARY LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE PRIMARY CANOPY.
- 10 AUGER "MCDONALD'S ORDER HERE CANOPY" DRIVE-THRU CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- 11 PRE-BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB (18" TO 24" PREFERRED). THE DISTANCE BETWEEN THE PRIMARY CANOPY AND PRE-BROWSE BOARD IS TO BE 15' AS MEASURED ALONG THE FACE OF THE CURB. THIS IS MEASURED FROM THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE CENTER OF THE CANOPY FOUNDATION. THE ANGLE (APPROXIMATELY 50') OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM
- 12] 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.
- [13] AUGER "MCDONALD'S GATEWAY" SIGN FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- 14 THE DISTANCE BETWEEN THE TIP OF THE CURBED ISLAND AND THE CENTER LINE OF THE PRIMARY CANOPY MUST BE 15'-0". THIS MEASUREMENT IS TAKEN PARALLEL TO THE INSIDE CURB FACE OF THE PRIMARY LANE.
- 15 TO POSITION THE SECONDARY CANOPY, 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 CANOPY.
- WHEN THE SECONDARY CANOPY IS LOCATED AT 14'-0" FROM THE TIP OF THE CURBED ISLAND, THE LOOP DETECTOR IS 16 TO BE 2'-0" FORWARD OF THE CANOPY CENTER LINE WITH THE LOOP FACING FORWARD AND THE DETECTOR LOOP → PERPENDICULAR TO THE SECONDARY CANOPY WHEN POSSIBLE.
- THE CENTER OF THE SECONDARY MENU BOARD FOUNDATION SHALL BE 5'-9" (5'-0" MIN. AND 6'-0" MAX.) FROM [17] CENTER OF THE CANOPY FOUNDATION, WITH THE END CAP OF THE SECONDARY MENU BOARD NOT LESS THAN 15" FROM FACE OF CURB. THE SECONDARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° FROM A VEHICLE POSITIONED AT THE CANOPY AND WITH 100% VISIBILITY.
- PRE-BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB (18" TO 24" PREFERRED). THE DISTANCE BETWEEN THE SECONDARY CANOPY AND PRE-BROWSE BOARD IS TO BE 15' AS MEASURED ALONG FACE OF THE CURB. THIS IS MEASURED FROM THE POINT PERPENDICULAR TO THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE POINT PERPENDICULAR TO THE CENTER OF THE CANOPY FOUNDATION. THE ANGLE OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM CANOPY (PREFERRED 35°).
- 19 "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.
- 20 THE WORDS "THANK YOU" ARE TO BE PLACED 10' FROM THE CENTER LINE OF THE OPEN PICKUP WINDOW OR 8" FROM
- THE EDGE OF THE YELLOW STRIPE TO THE BOTTOM OF THE WORD "YOU". 21 DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING AT THE PAY AND PICKUP WINDOWS.
- PULL FORWARD POSITION NO. 1. PROVIDE 8" WIDE, 10' LONG, PAINTED (PMS 123 YELLOW) STRIPE 40' FROM CENTER OF OPEN PRESENT WINDOW AND PULL FORWARD IN-GROUND SIGN.
- PULL FORWARD POSITION NO. 2. PROVIDE 8" WIDE, 10' LONG, PAINTED (PMS 123 YELLOW) STRIPE 40' FROM PULL

#### FORWARD POSITION NO. 1 STRIPE AND PULL FORWARD IN-GROUND SIGN. **GENERAL DRIVE-THRU NOTES**

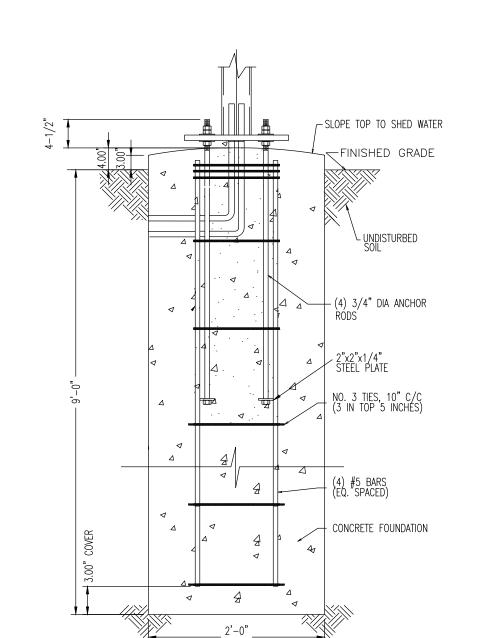
- DRIVE-THRU CANOPY, GATEWAY, MENU BOARD AND PRE-BROWSE BOARD SHALL BE CONSISTENT WITH THE CURRENT STANDARD BUILDING DESIGN DRIVE-THRU ELEMENTS.
- OTHER DESIGNS MAY NOT BE USED. 2. THE PLACEMENT OF THE CANOPY AND ANY ADDITIONAL EQUIPMENT SHOULD BE SUCH THAT IT PROVENTS BLOCKING THE
- CUSTOMER'S VIEW OF THE MENU BARD WHILE ORDERING. 3. GENERAL CONTRACTOR SHALL COORDINATE WITH CIVIL PLANS, MCDONALD'S PROJECT MANAGER AND SIGNAGE SUPPLIER TO
- CONFIRM EXACT LOCATION, ORIENTATION, MOUNTING HEIGHTS AND NUMBER OF SIGNS AND OTHER DRIVE-THRU ELEMENTS TO BE INSTALLED AT THIS SITE PRIOR TO CONSTRUCTION. ALL WORK TO BE COORDINATED WITH OTHER TRADES. 4. CONTACT MCDONALD'S AREA CONSTRUCTION MANAGER FOR SIGNAGE & DRIVE-THRU ELEMENT FOOTING AND WIRING REQUIREMENTS. SIGNAGE MANUFACTURER TO PROVIDE FOOTING ANCHORS & TEMPLATES TO G.C. PRIOR TO FOUNDATION
- 5. SEE ARCHITECTURAL PLANS FOR DRIVE-THRU LOOP DETECTOR AND WIRING INFORMATION. 6. GENERAL CONTRACTOR TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR AND SIGN SUPPLIER.
- 7. GENERAL CONTRACTOR TO INSTALL PRE-FORMED, PRE-WIRED VEHICLE DETECTOR LOOP. SEE ARCHITECTURAL PLANS FOR
- 8. GENERAL CONTRACTOR TO VERIFY CONDUIT SIZES REQUIRED BY VEHICLE LOOP DETECTOR SUPPLIER. 9. IF 15" MIN. CLEARANCE CANNOT BE ATTAINED OR IF THERE IS A HIGH CHANCE OF AN IMPACT, A BOLLARD MAY BE
- INSTALLED TO PROTECT THE APPROPRIATE BOARD(S). 100% VISIBILITY OF THE BOARD(S) IS REQUIRED AFTER BOLLARD

### 10. ALL DRIVE-THRU EQUIPMENT SUPPLIED BY MCDONALD'S APPROVED SUPPLIERS.

# DIGITAL PRE-BROWSE MENU BOARD FOUNDATION DETAIL

-PIER DEPTHS REQUIRED ARE MINIMUMS. ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL -TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE. -MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE 100 PSF/FT OF DEPTH (x2)

**FOUNDATION** 

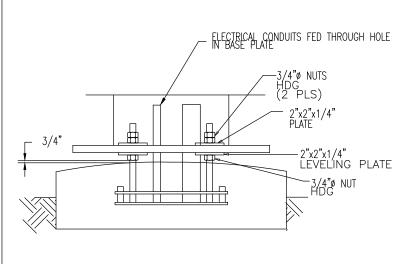


**FOUNDATION** 

-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE. HEAVY 3/4" HEX TOP NUT (GALVANIZED), 2 PLS -ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER HEAVY HEX LEVELING/ NUT (GALVANIZED) HOT DIPPED GALVANIZED 2"x2"x1/4" PLATE— ANCHOR BOLT PATTERN

CONNECTION DETAILS

-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE. -ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER -DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE



CONNECTION DETAILS

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SPECIFICATIONS SECTION 3.14 -PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED STEEL. -REINFORCEMENT PLACEMENT SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 3.2 & 3.5. -ANCHOR RODS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTIC -DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E.

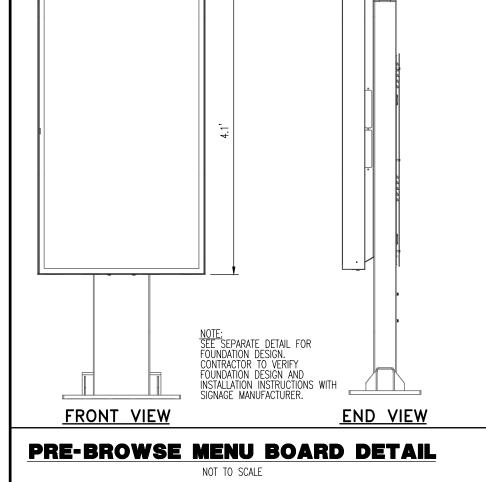
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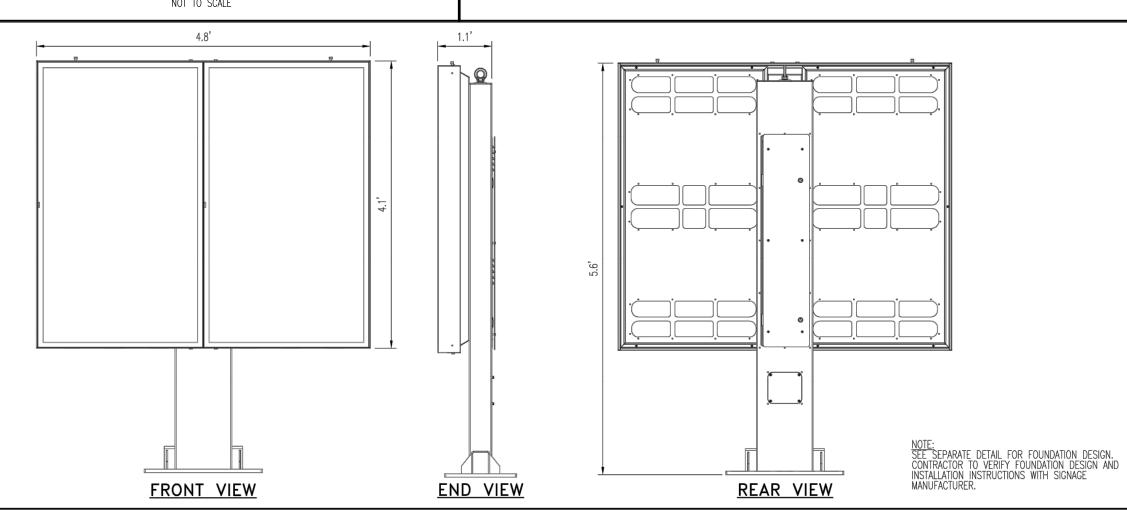
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-NUTS: ASTM A563A, HEAVY HEX -WASHERS: ASTM F844 A36 USE ASTM A153 CLASS C HOT DIPPED GALVANIZED BOLTS AND FASTENERS -ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER -NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEER'S

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PROTECT YOURSELE LL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VIS C

PROFESSIONAL ENGINEER PROFESSIONAL ENGINDER NEW JERSEY LICENSE No. 52588 NEW JERSEY LICENSE No. 45896

DIGITAL MENU BOARD FOUNDATION DETAIL

DIGITAL MENU BOARD W/COD DETAIL