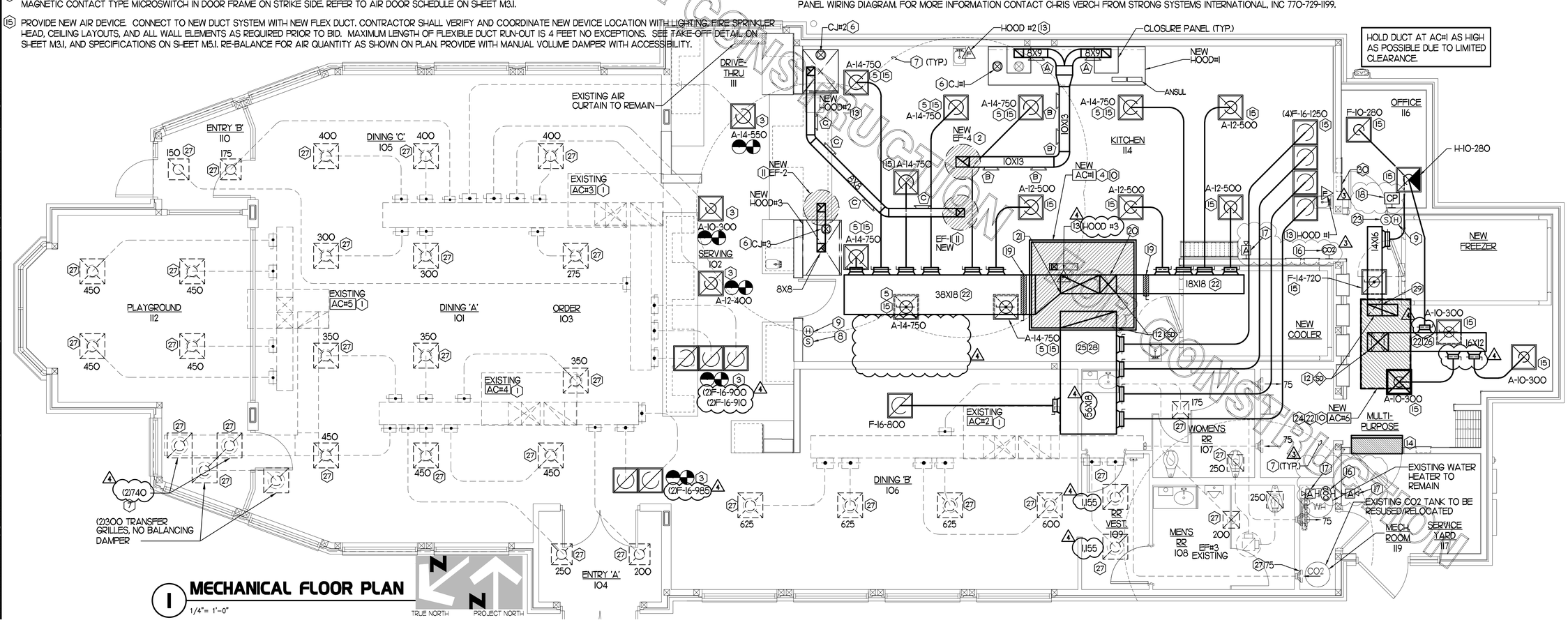
HVAC KEY NOTES

1. EXISTING ELECTRIC COOLING/GAS HEATING ROOFTOP HVAC UNIT TO REMAIN. MECHANICAL CONTRACTOR TO CLEAN AND ADJUST UNIT, CHEMICALLY CLEAN COILS, PERFORM AN OIL SAMPLE TEST ON COMPRESSORS TO VERIFY CONDITION, REPLACE BELTS, VERIFY ALL CONTROLS ARE FUNCTIONAL AND MAKE SURE ALL EQUIPMENT IS IN PROPER OPERATING CONDITION. REPLACE ANY DEFECTIVE PARTS OR EQUIPMENT. GREASE AND/OR REPLACE IF REQUIRED, FAN BEARINGS, CHECK SHAFT FOR SCORING AND CHECK MOTORS FOR PROPER AMPERAGE DRAW. CLEAN OR REPLACE CONDENSATE DRAIN LINE AS REQUIRED. REBALANCE CFM AS SHOWN ON PLANS, RTU SCHEDULE, & KITCHENVDINING PRESSURIZATION SCHEDULE. FURNISH UNIT WITH THREE SETS OF STANDARD FILTERS. CONTRACTOR TO REPLACE FILTERS JUST PRIOR TO AIR BALANCE AND ONCE AGAIN AFTER FINAL STORE CLEANING IS COMPLETE. REFER TO ROOFTOP UNIT SCHEDULE SHEET M3.1 FOR ADDITIONAL REQUIREMENTS. REPORT IN WRITING ANY PROBLEMS WHICH WOULD REQUIRE REPLACEMENT OF ROOFTOP UNIT INSTEAD OF REUSE TO THE TENANT'S CONSTRUCTION MANAGER. FIELD VERIFY EXACT CONDITION AND LOCATION PRIOR TO BID.
2. PROVIDE NEW FAN WITH NEW CURB FOR NEW HOOD, LOCATE A MINIMUM OF 10 FT FROM PARAPET WALLS OR FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING. SEE DETAIL M4.1 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
3. PROVIDE NEW, RELOCATE, OR REPLACE EXISTING AIR DEVICE WITH NEW. CONNECT TO EXISTING DUCT SYSTEM. IF NOT, CONTRACTOR SHALL INSTALL NEW DUCT IN ORDER TO MAKE CONNECTION TO NEW AIR DEVICE IN THE NEW LOCATION. FOR ALL NEW ADDED DUCTWORK SHALL BE RIGID. USE OF FLEX DUCT RUN-OUT IS LIMITED TO A MAXIMUM OF 4'-0" NO EXCEPTIONS (TYP. ALL) AROUND OBSTRUCTIONS. INSTALL HARD 90'S DOWN TO SUPPLY AIR GRILLES & RETURN AIR GRILLES. SEE TAKE-OFF DETAIL ON SHEETS M3.1 & SPECIFICATIONS ON M5.1 RE-BALANCE TO AIR QUANTITY AS SHOWN ON PLAN. PROVIDE WITH MANUAL VOLUME WITH ACCESSIBILITY. WHERE DUCTWORK IS BEING RE-USED, PROVIDE A 4 INCHES COLLAR ON EACH HVAC DIFFUSER & STRAP & TAPE THE DIFFUSER TO ANY EXISTING DUCTWORK TO REMAIN. CONTRACTOR SHALL VERIFY AND COORDINATE NEW DEVICE WITH LIGHTING AND CEILING LAYOUT AND ALL WALL ELEMENTS AS REQUIRED PRIOR TO BID.
4. CONTRACTOR TO REPLACE EXISTING ROOFTOP UNIT WITH NEW ELECTRIC COOLING/GAS HEATING ROOFTOP UNIT WITH NEW 14" HIGH ROOF CURB PLACED ON LOCATION SHOWN ON PLAN. MAINTAIN MINIMUM HEIGHT OF 8" FROM ROOF SURFACE. REFER TO HVAC SHEDULE ON SHEET M3.1. FIELD VERIFY AND COORDINATE WITH STRUCTURAL AND WITH ALL LOCAL AND STATE REQUIREMENTS PRIOR TO BID AND CONSTRUCTION .
5. MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
6. SEE ELEVATIONS ON M-2.1 FOR C.J FAN DUCTING REQUIREMENTS.
7. MAINTAIN 10 FOOT CLEARANCE FROM ANY FRESH AIR INTAKE. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID AND INSTALLATION.
8. MOUNT REMOTE SENSOR ON WALL AT 5'-8" AFF AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL KITCHEN EQUIPMENTS.
9. MOUNT LENNOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
10. CONTRACTOR TO INSTALL OVERFLOW SWITCH INSIDE ROOFTOP UNIT DRAIN PAN. ON DOWN-FLOW UNITS AND ALL OTHER COILS THAT DO NOT HAVE A SECONDARY DRAIN AND DO NOT HAVE A MEANS TO INSTALL AN AUXILIARY DRAIN PAN, A WATER-LEVEL MONITORING DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN BECOMES RESTRICTED. EXTERNALLY INSTALLED DEVICES AND DEVICES INSTALLED IN THE DRAIN LINE SHALL NOT BE PERMITTED.
11. PROVIDE NEW KITCHEN HOOD EXHAUST FAN AND CURB REPLACING THE EXISTING FAN AND CURB THROUGH THE EXISTING ROOF PENETRATION. MECHANICAL CONTRACTOR SHALL ALSO VERIFY IF EXISTING CURB IS USABLE AND SUFFICIENT FOR THE NEW FAN. IF NOT, NEW CURB SHALL BE PROVIDED AS REQUIRED. FIELD VERIFY FAN IS LOCATED MINIMUM OF 10 FT FROM PARAPET WALLS OR FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF OPENING PRIOR TO BID AND CONTACT DESIGN ENGINEER IF PENETRATION DIFFERS FROM PLAN. SEE KITCHEN HOOD EXHAUST FAN DETAIL SHEET M4.1 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
12. FIRE ALARM CONTRACTOR TO PROVIDE SMOKE DETECTORS AND REMOTE TEST STATION FOR THE SUPPLY AND RETURN DUCT AND ALL WIRING CONNECTIONS. THE SMOKE DETECTORS SHALL BE COMPATIBLE WITH THE FIRE ALARM SYSTEM. THE MECHANICAL CONTRACTOR SHALL INSTALL THE SMOKE DETECTORS AND REMOTE TEST STATION. FIRE ALARM CONTRACTOR SHALL CONNECT TO A FIRE ALARM SYSTEM. THE ACTIVATION OF THE SMOKE DETECTOR SHALL ACTIVATE A AUDIBLE/VISUAL ALARM AT A CONSTANTLY ATTENDED LOCATION. SMOKE DETECTOR SHALL BE COMPLIANT WITH LOCAL CODES. ACCESS SHALL BE PROVIDED FOR INSPECTION AND MAINTENANCE. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL TEST AND VERIFY THE SMOKE DETECTION SYSTEM WORKS PROPERLY AND SHALL MEETS ALL LOCAL AND STATE CODES, AND SHALL VERIFY CODE REQUIREMENTS FOR APPLICABLE CONFIGURATION PRIOR TO BID & CONSTRUCTION. REFER TO SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM DETAIL ON SHEET M-4.2.
13. A MANUAL PULL STATION SHALL BE LOCATED 10 FEET MINIMUM TO 20 FEET MAXIMUM FROM HOOD, ONE AT OR NEAR EVERY POINT OF EGRESS FROM THE HOOD COOKING AREA. PULL STATION SHALL BE SECURELY MOUNTED NOT LESS THAN 42" (INCHES) OR MORE THAN 48" (INCHES) FROM THE FLOOR. PROVIDE SIGNAGE FOR PULL STATION.
14. RELOCATE EXISTING AIR CURTAIN TO LOCATION SHOWN ON PLAN. RELOCATED AIR CURTAIN SHALL BE MOUNTED OVER DOOR HEADER AT 7'-5" AFF TO BOTTOM OF UNIT. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE. REFER TO AIR DOOR SCHEDULE ON SHEET M3.1.
15. PROVIDE NEW AIR DEVICE. CONNECT TO NEW DUCT SYSTEM WITH NEW FLEX DUCT. CONTRACTOR SHALL VERIFY AND COORDINATE NEW DEVICE LOCATION WITH LIGHTING, FIRE SPRINKLER HEAD, CEILING LAYOUTS, AND ALL WALL ELEMENTS AS REQUIRED PRIOR TO BID. MAXIMUM LENGTH OF FLEXIBLE DUCT RUN-OUT IS 4 FEET NO EXCEPTIONS. SEE TAKE-OFF DETAIL ON SHEET M3.1, AND SPECIFICATIONS ON SHEET M5.1. RE-BALANCE FOR AIR QUANTITY AS SHOWN ON PLAN. PROVIDE WITH MANUAL VOLUME DAMPER WITH ACCESSIBILITY.
16. STRONG SYSTEM SHALL SUPPLY & INSTALL CO2 SENSOR ANALOX- AX60. SENSOR SHALL BE MOUNTED AT 12" AFF WITH SPLASH GUARD AND CAGE. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE REQUIREMENTS. FIELD VERIFY & COORDINATE EXACT LOCATION WITH KITCHEN, FURNITURE PLAN, AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT : STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
17. STRONG SYSTEM SHALL SUPPLY & INSTALL PROVIDE CO2 ANNUNCIATOR MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY & COORDINATE EXACT LOCATION WITH KITCHEN, FURNITURE PLAN, AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION.
18. STRONG SYSTEM SHALL SUPPLY & INSTALL PROVIDE CO2 CENTRAL CONTROL UNIT MOUNTED AT AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY & COORDINATE EXACT LOCATION WITH KITCHEN, FURNITURE PLAN, AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION.
19. PROVIDE RUSKIN CD35 MANUAL BALANCING DAMPER WITH 6" MAXIMUM BLADE WIDTH, OPPOSED BLADE ACTION, LOCKING QUADRANT HANDLE WITH 2" STANDOFF AND 16 GA GALVANIZED BLADE AND FRAME CONSTRUCTION.
20. 18X18 VERTICAL DROP. PROVIDE TURNING VANES IN ELBOW. 18X18 SUPPLY MAIN TO BE LOCATED ENTIRELY BELOW JOISTS. HOLD 18X18 SUPPLY MAIN AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE.
21. 18X38 VERTICAL DROP. PROVIDE TURNING VANES IN ELBOW. ELBOW TO BE PARTIALLY LOCATED WITHIN STRUCTURE. BOTTOM OF ELBOW TO BE AT SAME ELEVATION AS BOTTOM OF 38X18 SUPPLY MAIN. 38X18 SUPPLY MAIN TO BE LOCATED ENTIRELY BELOW JOISTS. HOLD 38X18 SUPPLY MAIN AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE.
22. BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
23. MOUNT SPACE TEMPERATURE SENSOR ON WALL AT 5'-0" A.F.F. AND ROUTE WIRING TO CHICK-FIL-A "ADD-ON" PANEL. SEE DETAIL #1 SUNCOAST PANEL ON SHEET M4.3 CHICK-FIL-A "ADD ON" PANEL WIRING DIAGRAM.
24. PROVIDE NEW ROOFTOP ELECTRIC COOLING/ GAS HEATING UNIT WITH PRE-FABRICATED, MINIMUM 14" INCH INSULATED ROOF CURB. MAINTAIN MINIMUM HEIGHT OF 8 INCHES FROM ROOF SURFACE. REFER TO HVAC SHEDULE ON SHEET M3.1. FIELD VERIFY AND COORDINATE WITH STRUCTURAL AND WITH ALL LOCAL AND STATE REQUIREMENTS PRIOR TO BID AND CONSTRUCTION.
25. TRANSITION IN-VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. NO TURNING VANES IN ELBOWS.
26. TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. PROVIDE TURNING VANES IN ALL ELBOWS OF SUPPLY DUCT. COORDINATE SUPPLY DROP PRIOR TO BID AND CONSTRUCTION (TYP.) ALL.
27. RE-USE EXISTING AIR DEVICE TO REMAIN. CONTRACTOR SHALL CLEAN & REFURBISH ALL EXISTING AIR DEVICES TO "LIKE NEW" CONDITION, AND SHALL BALANCE, INSPECT, REPAIR, OR REPLACE AS NECESSARY IF REQUIRED. RE-CONNECT AIR DEVICES TO MATCH DUCT FITTING AND REPLACE IN CEILING/WALL. PATCH AND REPAIR CEILING/WALL WHERE NECESSARY. FIELD VERIFY AND COORDINATE EXACT SIZE, AIR QUANTITY, LOCATION, AND CONDITION PRIOR TO BID AND CONSTRUCTION. ANY DEFICIENCIES AND OR DISCREPANCIES SHALL BE REPORTED TO ARCHITECT/ENGINEER IMMEDIATELY. COORDINATE AIR BALANCE RESULTS WITH CONSTRUCTION MANAGER.
28. EXTEND 56X18 RETURN DUCT HORIZONTALLY BELOW STRUCTURE TO ACCOMMODATE (4) 16" COLLARS ON SIDE.
29. TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN WITHIN CURB. EXTEND BELOW STRUCTURE TO ACCOMMODATE START COLLARS. NO TURNING VANES IN ELBOW. FOR STRAIGHT DROPS, TERMINATE DROP 0'-6" ABOVE CEILING. FIELD COORDINATE PRIOR TO BID AND CONSTRUCTION.
30. CHICK-FIL-A "ADD -ON" PANEL PURCHASED AND INSTALLED BY A MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO PURCHASE THE "ADD-ON" PANEL, THERMOSTAT, REMOTE TEMPERATURE SENSOR, AND SMOKE DETECTOR TEST/REST ANNUNCIATOR STATION FOR AC#6 FROM SUNCOAST ENVIRONMENTAL CONTROLS, INC. SEE DETAIL 1/M4.3 FOR CFA "ADD-ON" PANEL WIRING DIAGRAM. FOR MORE INFORMATION CONTACT CHRIS VERCH FROM STRONG SYSTEMS INTERNATIONAL, INC 770-729-1199.



1 MECHANICAL FLOOR PLAN

1/4"= 1'-0"

FOR CONSTRUCTION
NOT FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By	
3	07/12/16	LP	CO2 COORDINATION
4	07.22.16	LP	KITCHEN

REVISIONS

Seal

STACY HENSON, P.E.

AA-0034201
CA 8660
604 COURTLAND STREET SUITE 1100
ORLANDO, FLORIDA 32804
PH 407.629.9106
FX 407.629.9124
INTERPLAN LLC
ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
PROJECT MANAGEMENT

STORE
S04-152
SPRINGHURST FSU

10501 Westport Rd
Louisville, Kentucky,
40241

SHEET TITLE
MECHANICAL FLOOR PLAN

VERSION: S03-146
ISSUE DATE: 04.2016

Job No. : 15.0433
Store : 01668
Date : 04.21.16
Drawn By : LP
Checked By: WL

Sheet
M-1.1