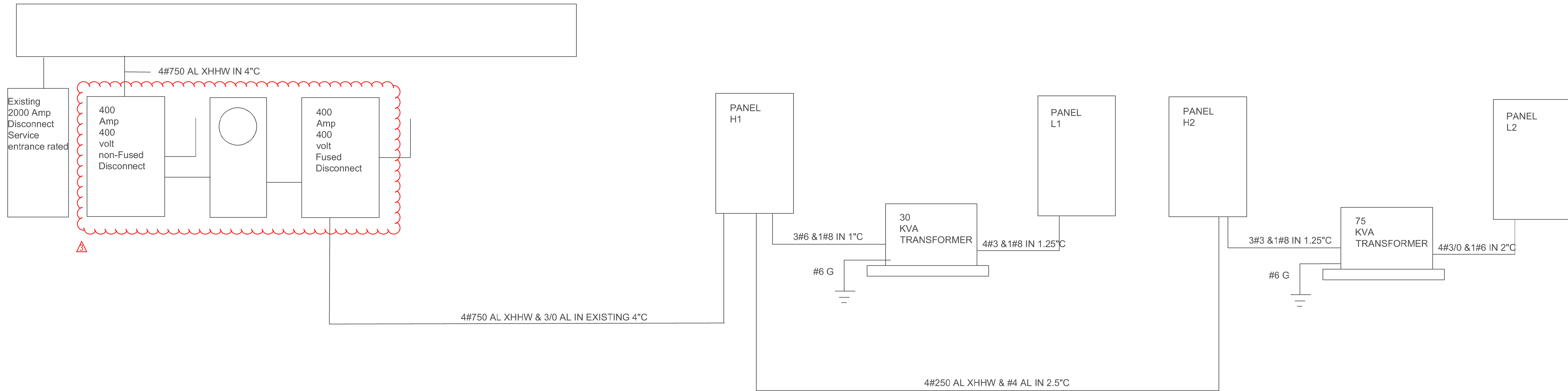




3315 N Oak Trafficway | Kansas City, MO 64116
816 | 880 | 1780
NF Studio North, LLC
Missouri Certificate of Authorization No. A-2017040640

PLUMBING DESIGN-BUILD BY GEN CONTRACTOR
MECHANICAL DESIGN-BUILD BY GEN CONTRACTOR
ELECTRICAL DESIGN-BUILD BY GEN CONTRACTOR
FIRE PROTECTION DESIGN-BUILD BY GEN CONTRACTOR
CONTRACTOR FORGE CONSTRUCTION



1 RISER DIAGRAM Scale: N.T.S

Scope:
Provide electrical for new TI
All Electrical work shall be as per NEC 2017.
All work shall be done by qualified electricians.
All branch wiring shall be copper.
Devices shall be 20a commercial grade and color shall be by architect.

- SPECIFICATIONS
- CONDUIT ABOVE GRADE SHALL BE EMT UNLESS OTHERWISE NOTED
 - CONDUIT BELOW GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED
 - CONNECTIONS SHALL BE MADE USING SET SCREW CONNECTORS
 - MC CABLE IS ACCEABLE FOR FINAL CONNECTIONS TO LIGHT FIXTURES PROVIDE WITH 10' WHIP ON ALL HIGHBAYS
 - BRANCH WIRING SHALL BE #12 THINN COPPER UNLESS OTHERWISE NOTED
 - WIRING SHALL BE AS PER CURRENT NEC 2005
 - WIRING DEVICES SHALL BE OF COMMERCIAL GRADE RATED AT 20 AMP
 - INSTALLATION SHALL ADHERE TO ADA STANDARDS
 - ALUMINUM XHHW-#2 CABLE MAY BE USED FOR FEEDERS LARGER THEN #2 OTHERWISE COPPER
 - REFER TO KCP&L STANDARDS MANUAL FOR 480 SERVICES
 - ALL LIGHTING/EQUIPMENT IN WAREHOUSE SHALL BE MOUNTED TO PROVIDE A MIN OF 36' CLEAR HEIGHT

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART*

OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGE PHASE 2 WIRE + GND CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND CONDUIT SIZE	THREE PHASE 3 WIRE + GND CONDUIT SIZE	THREE PHASE 4 WIRE + GND CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	8 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	8 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	6 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	4 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	3 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

NOTES:
UNLESS OTHERWISE NOTED ON THE DRAWINGS
UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL
SIZING BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE CONDUCTORS SHALL BE DERATED
IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE
ELECTRICAL FIELD PERSONAL RESPONSIBLE FOR VOLTAGE DROP CALCULATIONS.

ELECTRICAL GENERAL NOTES

- WORK INCLUDED. FURNISH ALL LABOR, MATERIAL, SERVICES AND SKILLED SUPERVISION NECESSARY FOR THE CONSTRUCTION, ERECTION, INSTALLATION CONNECTIONS, TESTING AND ADJUSTMENTS OF ALL CIRCUITS AND ELECTRICAL EQUIPMENT SPECIFIED HEREIN, OR NOTED ON THE DRAWINGS, AND ITS DELIVERY TO THE OWNER COMPLETE IN ALL RESPECTS READY FOR USE.
- CONTRACT DRAWINGS THE CONTRACT DRAWINGS ARE SHOWN IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK, INDICATING THE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUIT AND OUTLETS. VERIFY SPACES FOR THE INSTALLATION OF THE MATERIALS BASED ON ACTUAL DIMENSIONS OF EQUIPMENT FURNISHED. IF A QUESTION EXISTS AS TO THE EXACT INTENDED LOCATION OF OUTLETS OR EQUIPMENT, OBTAIN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.
- MINIMUM SIZE OF CONDUIT SHALL BE 1/2" UNLESS NOTED OTHERWISE.
- ALL WIRING FOR LIGHTING, RECEPTACLE AND POWER CIRCUITS WHERE NOT SHOWN ON DRAWINGS SHALL BE WITH #12 CONDUCTORS, NUMBER AS REQUIRED IN CONDUIT SIZED PER N.E.C. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR ALL BRANCH CIRCUITS AND FEEDERS. HOMERUNS TO PANEL SHALL BE IN INDIVIDUAL CONDUITS, UNLESS NOTED OTHERWISE, WITH CIRCUITS AS SHOWN.
- THE USE OF TYPE 'MC' AND TYPE 'AC' CABLE IS PERMITTED IN ALL AREAS PER NEC AND LOCAL CODE REQUIREMENTS.
- THE USE OF ALUMINUM CONDUCTORS WITH AMPACITY EQUIVALENT TO COPPER IS PERMITTED IN ALL AREAS PER NEC REQUIREMENTS.
- ALL JUNCTION BOXES, PULL BOXES, AND PANELBOARDS SHALL BE RIGIDLY ATTACHED TO STRUCTURE.
- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
- ALL CONDUIT, BOXES, ETC. SHALL BE CONCEALED OR MOUNTED FLUSH WITH CEILING OR WALL CONSTRUCTION, CONDUITS SHALL BE MOUNTED AS HIGH AS POSSIBLE. NO SURFACE MOUNTED CONDUIT, BOXES, ETC. WILL BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER PRIOR TO INSTALLATION. ALL CONDUIT PENETRATIONS SHALL BE FIRE-CAULKED AS REQUIRED.

SYMBOLS & LEGEND	
	3 PHASE POWER
	CONDUIT
	SINGLE POLE SWITCH
	TWO POLE SWITCH
	THREE POLE SWITCH
	CEILING MOUNTED MOTION SENSOR
	DIMMER SWITCH
	WALL MOUNTED MOTION SENSOR
	EMERGENCY LIGHTING
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLES
	DUPLEX RECEPTACLE MOUNTED AT CEILING
	DUPLEX RECEPTACLE MOUNTED AT 18" O.C.
	SINGLE POLE RECEPTACLE
	FLOOR MOUNTED RECEPTACLE
	COMBINATION DATA/VOICE OUTLET
	FIRE ALARM MANUAL PULL STATION
	JUNCTION BOX
	DISCONNECT SWITCH
	STARTER
	COMBINATION DISCONNECT AND STARTER
	EXHAUST FAN
	MOTOR
	PANELBOARD
	GROUND FAULT INTERRUPTING
	DEDICATED
	WEATHERPROOF
	ISOLATED GROUND
	ABOVE COUNTER
	WEATHERPROOF GROUND FAULT INTERRUPTING
ALL SYMBOLS NOT NECESSARILY REFERENCED ON PLAN	

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS
A	LITHONIA LIGHTING	STAKS-2X4-AL06-SWW7	LED	CEILING	UNV	OR EQUAL
A1	LITHONIA LIGHTING	STAKS-2X2-AL03-SWW7	LED	CEILING	UNV	OR EQUAL
B	LIGHTART	22" ACOUSTIC EMPIRE SHADE, OUTSIDE SHADE DUNE, INSIDE SHADE ZINC, WHITE CANOPY CORD AND FRAME 400K DIMMABLE 800 LUMEN 54 DEGREE FLOOD	LED	CEILING	UNV	
C	LITHONIA LIGHTING	LDN6-AL02-SWW1-L06-AP-LSS-MVO LT	LED	CEILING	UNV	OR EQUAL
D	HE WILLIAMS	GH-2-L300-840-FA-DIM-UNV	LED	CEILING	277	PROVIDE WITH INTEGRAL MOTION SENSOR
DR	EXISTING TO RELOCATE					
DE	HE WILLIAMS	GH-2-L300-840-FA-DIM-UNV	LED	CEILING	277	SAME AS TYPE D ONLY WITH EM BALLAST
DER	EXISTING TO RELOCATE					
EM	COMPASS	CUS20	LED	WALL	UNV	OR EQUAL
X1	Compass	CCR	LED	WALL	UNV	OR EQUAL
EX	COMPASS	CCR	LED	WALL	UNV	EXISTING
ERH	COMPASS	CUWZ-PC	LED	WALL	UNV	EXISTING

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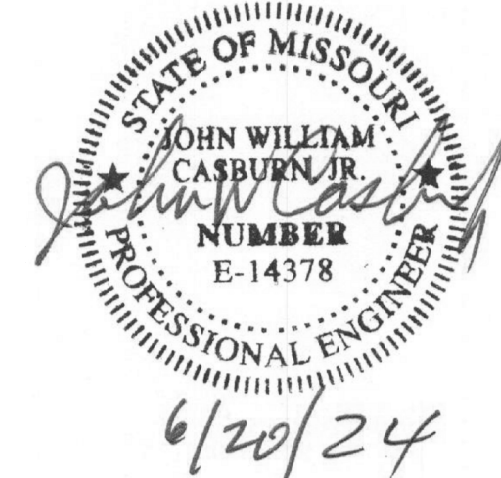
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TENANT IMPROVEMENTS FOR:

H&R BLOCK DEPOT

1220 NW Main St Unit E
Lee's Summit, MO 64096

Project No. 2024-032
Date: 04.26.24
Issued For: Permit Submittal
Drawn By: F. Crubaugh
Reviewed By:
Revisions:
No. Date Description
1 06/24/24 City Comments
2 06/24/24 Owner Changes
3 06/30/24 Service Size



E4.00
RISER