MAINTENANCE FACILITY LIGHTING UPGRADE URBANA, IOWA

IOWA DEPARTMENT OF TRANSPORTATION

ELECTRICAL NOTES – GENERAL

ALL WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE 2014 NATIONAL ELECTRIC CODE (NEC).

DETERMINE EXISTING CONDITIONS THAT MAY AFFECT THIS WORK, BY ON-SITE INSPECTION PRIOR TO BIDDING.

LABEL CIRCUIT BREAKER NUMBER & PANEL DESIGNATION ON EACH JUNCTION BOX COVER INSTALLED OR ACCESSED AS PART OF THE WORK.

VERIFY POWER REQUIREMENTS AND EXACT LOCATION OF EQUIPMENT FURNISHED. COMPLY WITH ELECTRICAL ROUGH-IN REQUIREMENTS FOR THIS EQUIPMENT.

ALL CIRCUITS SHALL BE IN CONDUIT AND SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR, GREEN #12 STRANDED COPPER MINIMUM.

ALL CONDUCTORS SHALL BE STRANDED COPPER, #12 AWG MINIMUM. INCREASE CONDUCTOR SIZES A MINIMUM OF ONE SIZE OVER NEC TABLE 310-16 IN CIRCUITS WITH A LENGTH OVER 75 FEET.

IF EXISTING WIRING IS CALLED OUT TO BE REUSED, INSPECT CONDITION AND CURRENT RATING OF WIRE TO DETERMINE IF IT IS SAFE TO REUSE. REPORT ANY UNSATISFACTORY OR UNSAFE CONDITIONS TO THE ENGINEER.

ELECTRICAL DEMOLITION NOTES

DEMOLITION OF ALL ELECTRICAL DEVICES, CIRCUITS, AND OTHER MISCELLANEOUS MATERIALS IS TO BE BY THE ELECTRICAL CONTRACTOR.

INCLUDE IN REMOVAL OF CIRCUITS: WIRING, BOXES, CONDUITS, STRAPS, AND OTHER MISCELLANEOUS MATERIALS BACK TO THE BRANCH PANEL OR TO A JUNCTION BOX THAT IS TO REMAIN. CIRCUITS THAT TERMINATE IN A JUNCTION BOX MAY BE LEFT FOR FUTURE USE AFTER MARKING AS NOTED BELOW.

CIRCUITS THAT ARE REMOVED, AND NOT REUSED, SHALL BE DISCONNECTED AT THE CIRCUIT BREAKER IN THE EXISTING PANEL. FOLD OVER ENDS OF WIRE, DOUBLE WRAP WITH UL LISTED BLACK VINYL TAPE, AND TAG TO IDENTIFY TO WHICH JUNCTION BOX THE CIRCUIT IS TERMINATED. LABEL UNUSED CIRCUIT BREAKERS AS "SPARE".

REMOVE DEMOLISHED MATERIALS PROMPTLY FROM THE SITE AND DISPOSE OF PROPERLY.

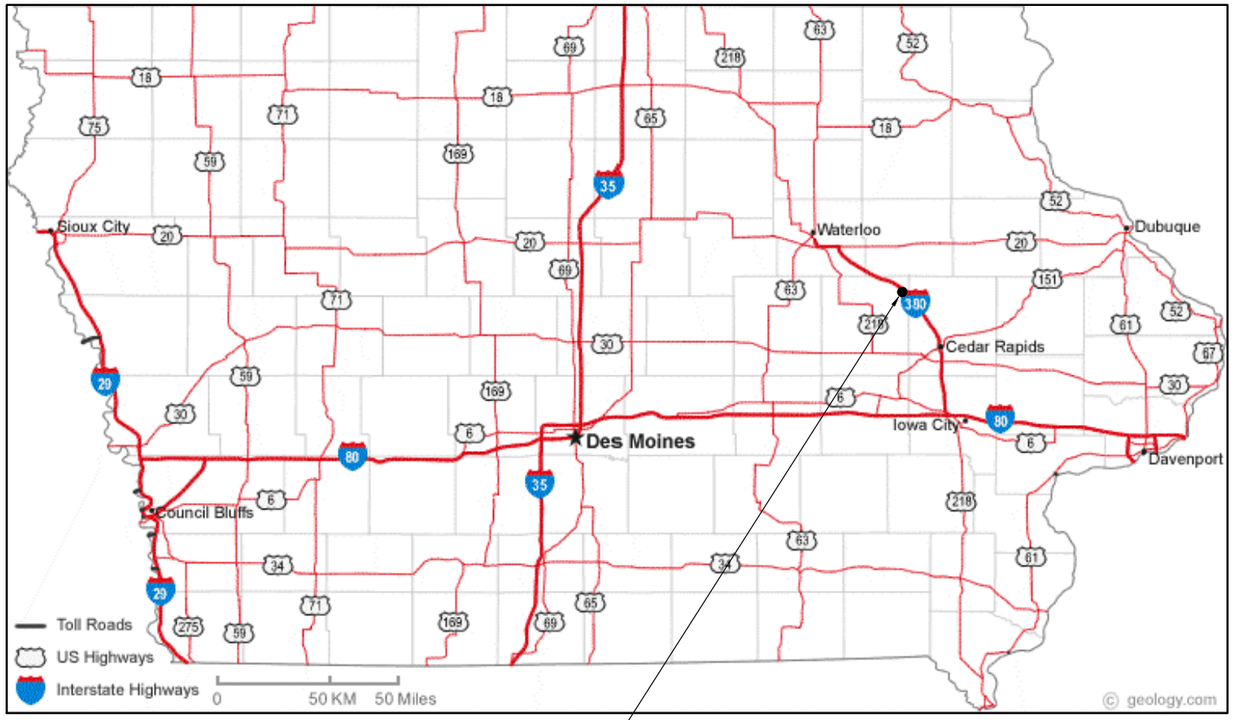
LEAVE OLD CIRCUITS INTACT UNTIL NEW CIRCUITS ARE INSTALLED AND FULLY FUNCTIONAL.

EXISTING FIXTURES

EXISTING LIGHT FIXTURE AND SWITCH QUANITIES AND LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON ORIGINAL BUILDING ELECTRICAL PLANS. LOCATIONS AND QUANTITIES MAY HAVE CHANGED FROM WHAT IS SHOWN. VERIFY EXACT QUANTITY AND LOCATIONS ON SITE PRIOR TO BIDDING.

LIGHTING SYMBOLS

- WALL SWITCH – 1 WAY
- WALL SWITCH – 3 WAY
- JUNCTION BOX
- KEYED NOTE REFERENCE



PROJECT LOCATION

5397 31ST AVE.
URBANA, IA 52345

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IOWA DEPARTMENT OF TRANSPORTATION
MAINTENANCE FACILITY LIGHTING UPGRADE

SHEET TITLE
URBANA MAINTENANCE FACILITY

SCALE: AS NOTED

DRAWN BY: M.C.

APPROVED: R.M.

REVISIONS:

DATE: DECEMBER 21, 2015

PROJECT NO.: ME 1533

SHEET NO.: CS

ELECTRICAL KEYED NOTES

1. DEMOLISH EXISTING LIGHT FIXTURE AND REPLACE WITH NEW FLUORESCENT HIGH BAY LIGHT FIXTURE IN LOCATION SHOWN ON SHEET E1. PROVIDE A 4"X4"X2" STEEL JUNCTION BOX WITH COVER IN DEMOLISHED FIXTURE LOCATION. DISPOSE OF DEMOLISHED FIXTURE.

1A. NEW FIXTURES ARE FURNISHED BY THE IOWA DEPARTMENT OF TRANSPORTATION (IA DOT) AND ARE CURRENTLY STORED IN ANOTHER BUILDING ON SITE. LAMPS ARE INCLUDED WITH FIXTURES. CONTRACTOR SHALL TRANSPORT FIXTURES FROM STORAGE BUILDING TO PROJECT AREA, UN–BOX FIXTURES, AND INSTALL FIXTURES. EXTEND NEW CIRCUIT; INCLUDING CONDUIT, CONDUCTORS, AND CONDUIT FITTINGS, FROM JUNCTION BOX TO NEW FIXTURE. REUSE EXISTING CIRCUIT FROM JUNCTION BOX TO EXISTING SWITCH. VERIFY THAT THERE IS AN EQUIPMENT GROUNDING CONDUCTOR. INSPECT EXISTING WIRING FOR DEFECTS OR POTENTIAL SAFETY ISSUES. REPORT ANY ISSUES OR UNSAFE CONDITIONS TO THE ENGINEER.

PROVIDE CABLE HANGAR ASSEMBLIES, (2) PER FIXTURE, AS NOTED IN THE LIGHT FIXTURE SCHEDULE, CONSISTING OF 20' ADJUSTABLE AIRCRAFT CABLE (ADJUST LENGTH AS REQUIRED FOR FIXTURE HEIGHT), 2–HOOKS, AND Y HANGARS. CABLE SHALL BY 7X19 CONSTRUCTION WITH DIAMETER SELECTED BY THE LIGHT FIXTURE MANUFACTURER. PROVIDE SUPPORTS FROM OVERHEAD STRUCTURE FOR NEW FIXTURES. SUPPORTS INCLUDE GALV. STEEL STRUT, THREADED HANGAR RODS, BEAM CLAMPS, FASTENERS, AND MISC. MATERIALS REQUIRED TO SUPPORT THE NEW FIXTURES FROM CABLE HANGAR ASSEMBLIES. PROVIDE WASHERS BEHIND ALL NUTS. PROVIDE NEW BLANK COVER PLATES FOR EXISTING JUNCTION BOXES IF REQUIRED. THE CABLE HANGAR ASSEMBLIES SPECIFIED ON THE LIGHT FIXTURE SCHEDULE HAVE BEEN SELECTED BY THE MANUFACTURER SPECIFICALLY FOR THE LIGHT FIXTURES SPECIFIED. THERE SHALL BE NO SUBSTITUTIONS. MATCH EXISTING FIXTURE HEIGHT ABOVE FLOOR. VERIFY THERE IS ENOUGH CLEARANCE OVER THE OVERHEAD DOOR AND TO EXISTING STRUCTURE, MODIFY HEIGHT OF FIXTURES AS REQUIRED TO PROVIDE ADEQUATE CLEARANCES.

2. DEMOLISH EXISTING LIGHT FIXTURE AND REPLACE WITH NEW WET LOCATION FLUORESCENT HIGH BAY LIGHT FIXTURE IN LOCATION SHOWN ON PLAN. PROVIDE A 4"X4"X2" STEEL JUNCTION BOX WITH COVER IN DEMOLISHED FIXTURE LOCATION. DISPOSE OF DEMOLISHED FIXTURE.

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3. DEMOLISH AND REPLACE EXISTING LIGHT SWITCH AND COVER PLATE ONE–FOR–ONE. REUSE EXISTING BOX & WIRING. SWITCH LOCATIONS AND QUANTITIES SHOWN ARE APPROXIMATE. VERIFY EXACT LOCATION AND QUANTITY OF EXISTING SWITCHES ON SITE.

4. DEMOLISH AND REPLACE THE EXISTING FLUORESCENT LIGHT FIXTURES OVER THE WORK BENCHES WITH NEW LED LIGHT FIXTURES IN SAME LOCATION. REUSE EXISTING CIRCUITING AND BRACKETS TO HANG NEW FIXTURES. PROVIDE NEW ATTACHMENT FASTENERS, WIRING, AND MISCELLANEOUS HARDWARE & FIXTURE WHIPS AS REQUIRED. INSPECT EXISTING WIRING FOR DEFECTS OR POTENTIAL SAFETY ISSUES. REPORT ANY ISSUES OR UNSAFE CONDITIONS TO THE ENGINEER. VERIFY THAT THERE IS AN EQUIPMENT GROUNDING CONDUCTOR.

5. FIXTURE IS TO BE ALWAYS ON. PROVIDE A NEW SEPARATE POWER CIRCUIT. EXTEND AND CONNECT CIRCUIT TO 20A 1P CIRCUIT BREAKER IN NEAREST BRANCH PANEL.

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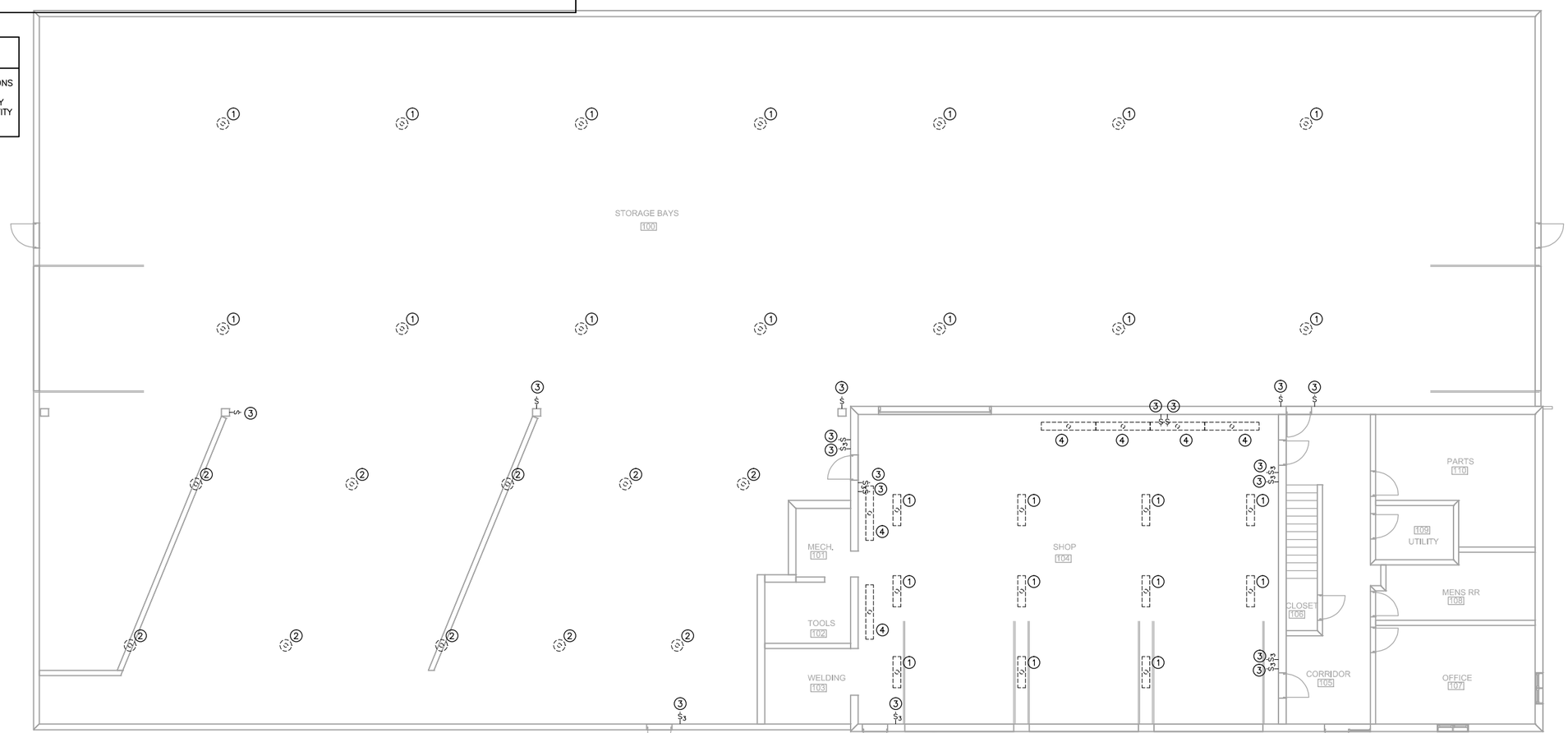

LIGHTING DEMOLITION PLAN

SCALE: 1/8" = 1' – 0"

NORTH

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IOWA DEPARTMENT OF TRANSPORTATION
MAINTENANCE FACILITY LIGHTING UPGRADE

SHEET TITLE
URBANA MAINTENANCE FACILITY

SCALE: AS NOTED

DRAWN BY: M.C.

APPROVED: R.M.

REVISIONS:

DATE: DECEMBER 21, 2015

PROJECT NO.: ME 1533

SHEET NO.: D1

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LIGHT FIXTURE SCHEDULE

TAG	FIXTURE TYPE	MANUFACTURER	MODEL	VOLTS	LAMPS	PROVIDED BY	NOTES
F1	FLUORESCENT HIGH BAY	LITHONIA	FGB24 6 32 N1X20 MVOLT 2/3 GEB10IS L841EX	MULTI	(6) 32W T8	OWNER	1,3,5
F2	FLUORESCENT WET LOCATION HIGH BAY	LITHONIA	FHE632L 1/4 1/2 GEB10IS LP841EX	MULTI	(6) 32W T8	OWNER	1,4,6
F3	LINEAR FLUORESCENT	LITHONIA	XWL232 MV	MULTI	(2) 32W T8	CONTRACTOR	1
X1	WALL MOUNTED EMERGENCY EXIT	DAYBRITE	VCRW	120V	–	CONTRACTOR	1–2

NOTES:
1. EQUIVALENT PRODUCTS FROM LITHONIA, DAYBRITE, & HUBBELL ARE APPROVED AS EQUALS.
2. DEMOLISH AND REPLACE THE EXISTING EMERGENCY EXIT SIGNS WITH NEW SIGNS IN SAME LOCATION. DISPOSE OF DEMOLISHED FIXTURE. REUSE EXISTING CIRCUITING. VERIFY THAT THERE IS AN EQUIPMENT GROUNDING CONDUCTOR. INSPECT EXISTING WIRING FOR DEFECTS OR POTENTIAL SAFETY ISSUES. REPORT ANY ISSUES OR UNSAFE CONDITIONS TO THE ENGINEER.
3. ACCESSORIES: LITHONIA IBAC240 M20 AIRCRAFT CABLE HANGAR ASSEMBLY. REFER TO KEYED NOTES FOR ADDITIONAL INFORMATION.
4. ACCESSORIES: LITHONIA FHEACT240 AIRCRAFT CABLE HANGAR ASSEMBLY. REFER TO KEYED NOTES FOR ADDITIONAL INFORMATION.
5. PROVIDE 6' 3–WIRE FIXTURE WHIPS AND ASSOCIATED FITTINGS AS REQUIRED PER FIXTURE. INSTALL SHORTER FIXTURE WHIPS IF POSSIBLE
6. PROVIDE 6' 3–WIRE FIXTURE WHIPS WITH NON–METTALLIC LIQUIDTIGHT CONDUIT AND ASSOCIATED FITTINGS AS REQUIRED PER FIXTURE. INSTALL SHORTER FIXTURE WHIPS IF POSSIBLE.

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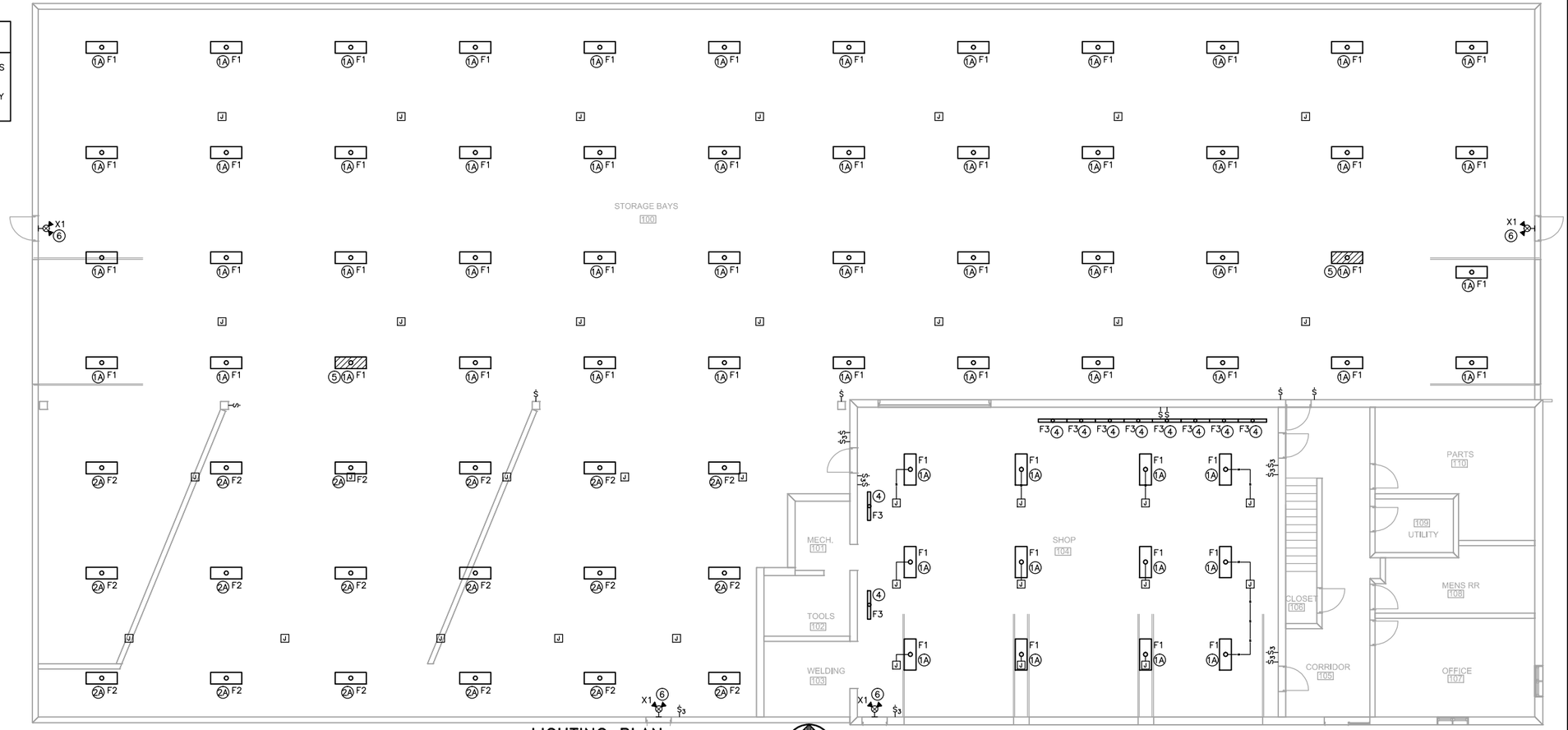

LIGHTING PLAN

SCALE: 1/8" = 1' – 0"

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APPROVED: R.M.

REVISIONS:

DATE: DECEMBER 21, 2015

PROJECT NO.: ME 1533

SHEET NO.: E1

Hoist
ergency
sconnect

EXIT
KEEP CLEAR
SKYJACK

B39092
A30456
B39623

Quicke
MX120
IOWA