

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.

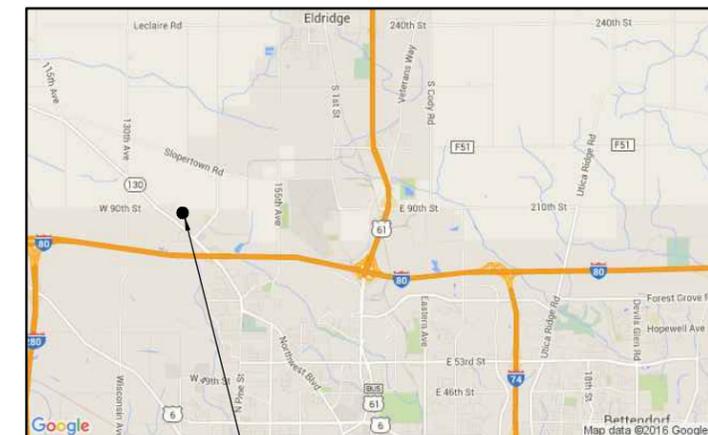
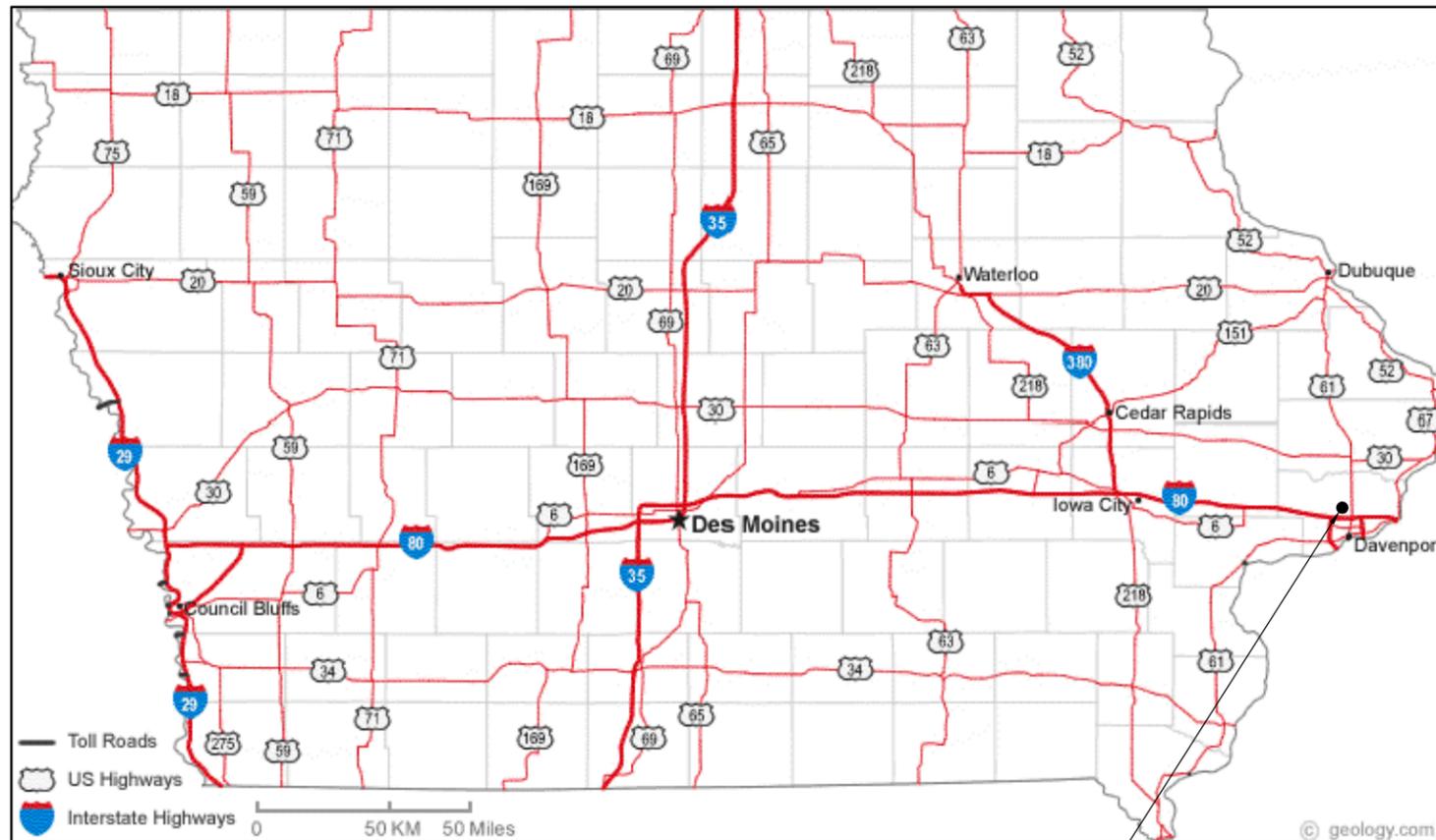
EXISTING FIXTURES

EXISTING LIGHT FIXTURE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ARE APPROXIMATE. 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
- ⌚3 WALL SWITCH – 3 WAY
- ☐ JUNCTION BOX
- ① KEYED NOTE REFERENCE

MAINTENANCE FACILITY LIGHTING UPGRADE DAVENPORT, IOWA



PROJECT LOCATION

8721 N.W. BLVD.
DAVENPORT, IA 52809

MERCER ENGINEERING, P.C.
3079 COLDWATER CREEK RD.
CRESCO, IA 52136
515-360-5995
RMERCER@MERCERENG.COM

IOWA DEPARTMENT OF TRANSPORTATION
MAINTENANCE FACILITY LIGHTING UPGRADE

DAVENPORT, IOWA

SHEET TITLE
COVER SHEET

SCALE:
AS NOTED

DRAWN BY:
M.C.

APPROVED:
R.M.

REVISIONS:

DATE:
AUGUST 1, 2016

PROJECT NO.:
1610

SHEET NO.:
CS

EXISTING FIXTURES

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ELECTRICAL KEYED NOTES

- ① DEMOLISH EXISTING LIGHT FIXTURE. PROVIDE A 4"x4"x2" JUNCTION BOX WITH COVER IN DEMOLISHED FIXTURE LOCATION. REFER TO SPECIFICATION SECTION 16130 FOR MATERIAL INFORMATION. PROPERLY DISPOSE OF DEMOLISHED FIXTURE.
- ② INSTALL NEW LED HIGH BAY LIGHT FIXTURE IN LOCATION SHOWN. NEW FIXTURES ARE FURNISHED BY THE IOWA DEPARTMENT OF TRANSPORTATION (IA DOT) AND ARE CURRENTLY STORED ON SITE. COORDINATE WITH SITE SUPERVISOR FOR THE LOCATION OF THE NEW FIXTURES. LAMPS ARE INCLUDED WITH FIXTURES. CONTRACTOR SHALL TRANSPORT FIXTURES FROM WHERE THE FIXTURES ARE LOCATED ON SITE TO THE PROJECT AREA, UN-BOX FIXTURES, AND INSTALL FIXTURES. EXTEND NEW CIRCUIT, INCLUDING CONDUIT, CONDUCTORS, AND CONDUIT FITTINGS, FROM NEAREST 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 BE 7X19 CONSTRUCTION WITH DIAMETER SELECTED BY THE LIGHT FIXTURE MANUFACTURER. PROVIDE SUPPORTS FROM OVERHEAD STRUCTURE FOR NEW FIXTURES AS REQUIRED. SUPPORTS INCLUDE STAINLESS 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.
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SEE SHEET D2 FOR EAST END DEMOLITION PLAN

WEST END ELECTRICAL DEMOLITION PLAN

SCALE: 1/8" = 1' - 0"



EXISTING FIXTURES

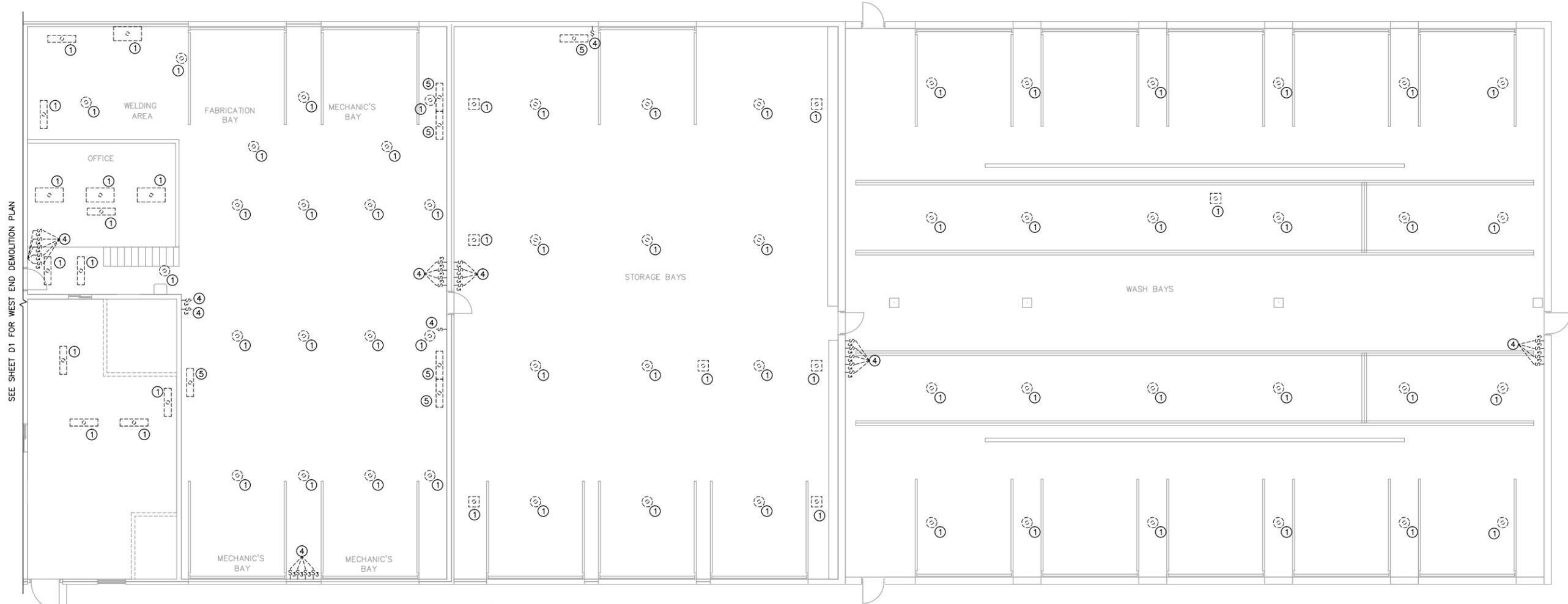
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SEE SHEET D1 FOR WEST END DEMOLITION PLAN

EAST END ELECTRICAL DEMOLITION PLAN

SCALE: 1/8" = 1' - 0"



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IOWA DEPARTMENT OF TRANSPORTATION
 MAINTENANCE FACILITY LIGHTING UPGRADE
 DAVENPORT, IOWA

SHEET TITLE
EAST END ELECTRICAL DEMOLITION PLAN

SCALE:
 AS NOTED

DRAWN BY:
 M.C.

APPROVED:
 R.M.

REVISIONS:

DATE:
 AUGUST 1, 2016

PROJECT NO.:
 1610

SHEET NO.:
D2

LIGHT FIXTURE SCHEDULE

TAG	FIXTURE TYPE	MANUFACTURER	MODEL	VOLTS	LAMPS/LUMENS	PROVIDED BY	NOTES
LED1	LED HIGH BAY (TRUCK BAYS)	METALUX	HBLEDD-LD4-4/-W-AL-UNV-L840-CD2-U	MULTI	18,000 lm	OWNER	3,5
LED1A	LED HIGH BAY (TRUCK BAYS)	METALUX	HBLEDD-LD4-18-W-AL-UNV-L840-CD2-U	MULTI	18,000 lm	CONTRACTOR	1,3,5,7
LED2	LED HIGH BAY (MECHANICS BAYS)	METALUX	HBLEDD-LD4-24-W-AL-UNV-L840-CD2-U	MULTI	24,000 lm	OWNER	3,5
LED2A	LED HIGH BAY (MECHANICS BAYS)	METALUX	HBLEDD-LD4-24-W-AL-UNV-L840-CD2-U	MULTI	24,000 lm	CONTRACTOR	1,3,5,7
LED3	LED WET LOCATION HIGH BAY	METALUX	VT4LED-LD4-19-DR-UNV-L840-CD2-WL-U	MULTI	19,000 lm	OWNER	4,6
LED3A	LED WET LOCATION HIGH BAY	METALUX	VT4LED-LD4-19-DR-UNV-L840-CD2-WL-U	MULTI	19,000 lm	CONTRACTOR	1,4,6,7
LED4	LINEAR LED	LITHONIA	FEM4 LED 4L/ IMACD	MULTI	4,000 lm	CONTRACTOR	1,5
LED5	SURFACE LED	LITHONIA	2TLX4 72L FW A12 LP840	MULTI	7,200 lm	CONTRACTOR	1,5
X1	EMERGENCY EXIT	DUAL LITE	SESRW	120V	-	CONTRACTOR	1,5
X1A	EMERGENCY EXIT (WET LOCATION)	DUAL LITE	LN4XRW	120V	-	CONTRACTOR	1,6

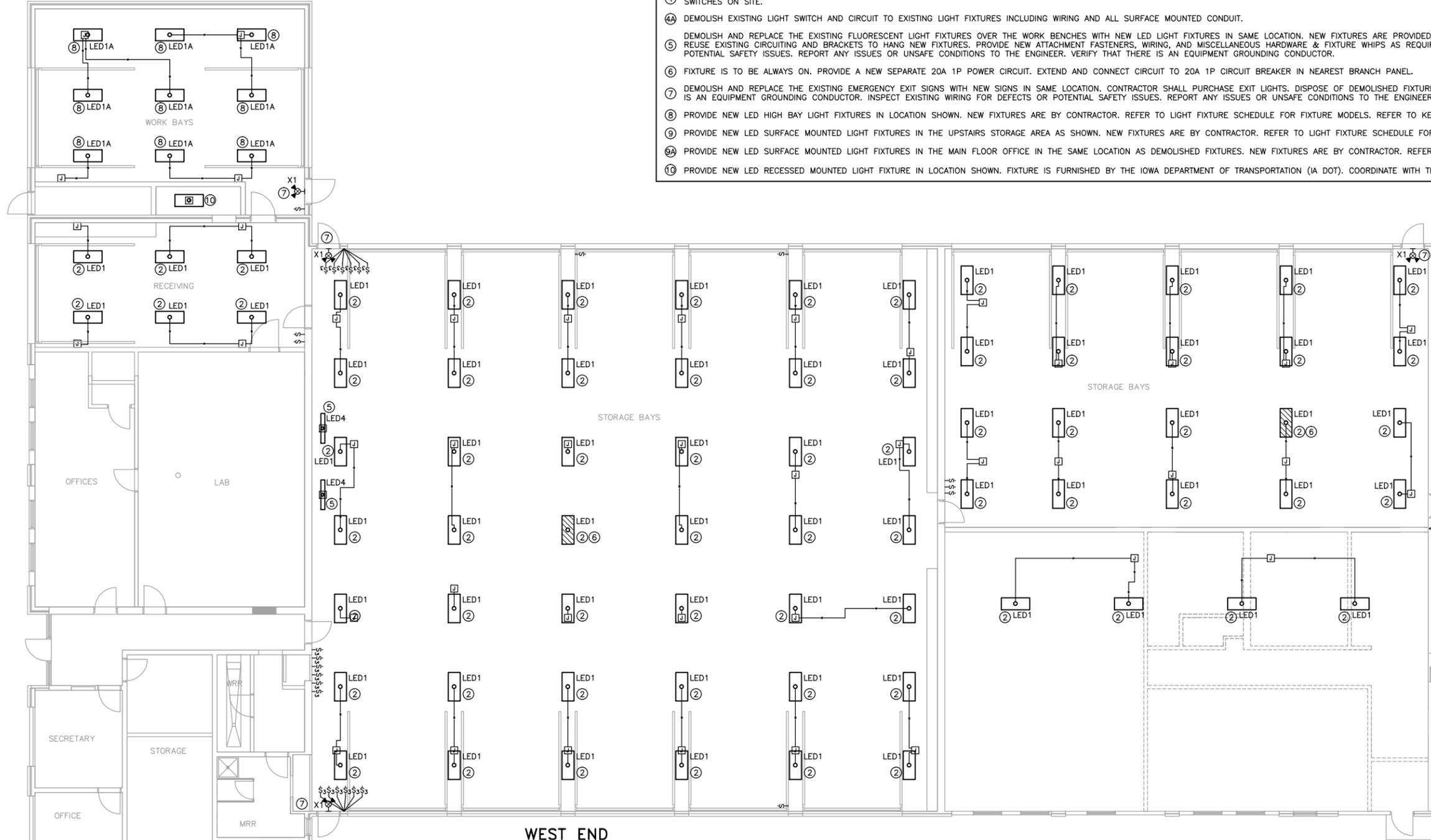
- NOTES:
- EQUIVALENT PRODUCTS FROM LITHONIA, DAYBRITE, & HUBBELL ARE APPROVED AS EQUALS.
 - NOTE NOT USED.
 - ACCESSORIES: METALUX SS AIRCRAFT CABLE "Y" TOGGLE MOUNTING KIT. REFER TO KEYED NOTES FOR ADDITIONAL INFORMATION.
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 - PROVIDE 6" 3-WIRE FIXTURE WHIPS AND ASSOCIATED FITTINGS AS REQUIRED PER FIXTURE. INSTALL SHORTER FIXTURE WHIPS IF POSSIBLE.
 - PROVIDE 6" 3-WIRE FIXTURE WHIPS WITH NON-METALLIC LIQUIDTIGHT CONDUIT AND ASSOCIATED FITTINGS AS REQUIRED PER FIXTURE. INSTALL SHORTER FIXTURE WHIPS IF POSSIBLE.
 - FIELD VERIFY MODEL NUMBER OF FIXTURES ALREADY ON SITE PRIOR TO ORDERING ANY ADDITIONAL FIXTURES. MATCH MODEL OF FIXTURES ALREADY ON SITE.

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- DEMOLISH AND REPLACE THE EXISTING EMERGENCY EXIT SIGNS WITH NEW SIGNS IN SAME LOCATION. CONTRACTOR SHALL PURCHASE EXIT LIGHTS. 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.
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- PROVIDE NEW LED SURFACE MOUNTED LIGHT FIXTURES IN THE UPSTAIRS STORAGE AREA AS SHOWN. NEW FIXTURES ARE BY CONTRACTOR. REFER TO LIGHT FIXTURE SCHEDULE FOR FIXTURE MODELS.
- PROVIDE NEW LED SURFACE MOUNTED LIGHT FIXTURES IN THE MAIN FLOOR OFFICE IN THE SAME LOCATION AS DEMOLISHED FIXTURES. NEW FIXTURES ARE BY CONTRACTOR. REFER TO LIGHT FIXTURE SCHEDULE FOR FIXTURE MODELS.
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WEST END LIGHTING PLAN
SCALE: 1/8" = 1' - 0"
NORTH

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MERCER ENGINEERING, P.C.

**IOWA DEPARTMENT OF TRANSPORTATION
MAINTENANCE FACILITY LIGHTING UPGRADE
DAVENPORT, IOWA**

SHEET TITLE
WEST END LIGHTING PLAN

SCALE:
AS NOTED

DRAWN BY:
M.C.

APPROVED:
R.M.

REVISIONS:

DATE:
AUGUST 1, 2016

PROJECT NO.:
1610

SHEET NO.:
E1

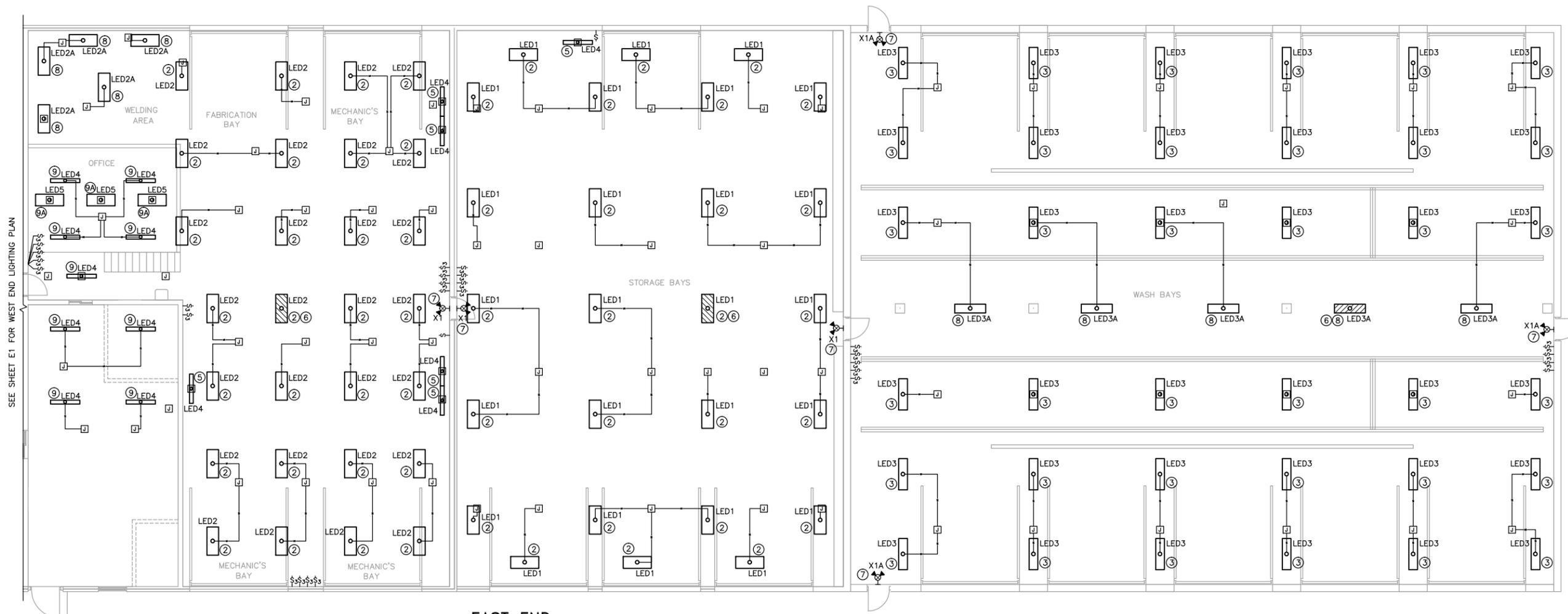
SEE SHEET E2 FOR EAST END LIGHTING PLAN

ELECTRICAL KEYED NOTES

- ① DEMOLISH EXISTING LIGHT FIXTURE. PROVIDE A 4"x4"x2" JUNCTION BOX WITH COVER IN DEMOLISHED FIXTURE LOCATION. REFER TO SPECIFICATION SECTION 16130 FOR MATERIAL INFORMATION. PROPERLY DISPOSE OF DEMOLISHED FIXTURE.
- ② INSTALL NEW LED HIGH BAY LIGHT FIXTURE IN LOCATION SHOWN. NEW FIXTURES ARE FURNISHED BY THE IOWA DEPARTMENT OF TRANSPORTATION (IA DOT) AND ARE CURRENTLY STORED ON SITE. COORDINATE WITH SITE SUPERVISOR FOR THE LOCATION OF THE NEW FIXTURES. LAMPS ARE INCLUDED WITH FIXTURES. CONTRACTOR SHALL TRANSPORT FIXTURES FROM WHERE THE FIXTURES ARE LOCATED ON SITE TO THE PROJECT AREA, UN-BOX FIXTURES, AND INSTALL FIXTURES. EXTEND NEW CIRCUIT, INCLUDING CONDUIT, CONDUCTORS, AND CONDUIT FITTINGS, FROM NEAREST 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.

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SEE SHEET E1 FOR WEST END LIGHTING PLAN

EAST END LIGHTING PLAN

SCALE: 1/8" = 1' - 0"



NORTH

SHEET TITLE
EAST END
LIGHTING PLAN

SCALE:
AS NOTED

DRAWN BY:
M.C.

APPROVED:
R.M.

REVISIONS:

DATE:
AUGUST 1, 2016

PROJECT NO.:
1610

SHEET NO.:
E2