
THIS IS NOT AN ORDER TO PROCEED WITH THE CHANGES DESCRIBED.

ITEMIZED PROPOSAL: Submit a proposal for each Bulletin item stating the amount to be added to, or deducted from, the Contract Amount in order to put into effect the described changes in the work. Submit the proposal within seven days of the date of the Bulletin.

CONTRACT TIME: Dates for work completion shall not be affected by reason of this Bulletin, except as specifically agreed in writing.

INTENT: Applicable provisions of the Contract Documents will govern the Work of the Contract; changes will be governed as if incorporated into the Contract Documents at the time of the Agreement.

- Whole Drawings, Sheet Nos.: M1.0, E1.0, E2.0 and E3.0
- Partial Drawings: None.
- Project Manual Documents: None.

ITEM NO. 1 Revise panel RP-A voltage from 120/208V.,1Ph.,3W. to 120/240V.,1Ph.,3W.

- a) Refer to Sheet: E1.0, E2.0 and E3.0.
 - 1. Revise voltage of RP-A.

REASON FOR CHANGE: Per DTE requirement/recommendation.

ITEM NO. 2 Revise ECH-1 and ECH-2 voltage from 208V.,1Ph.,3W. to 240V.,1Ph.,3W.

- a) Refer to Sheet: M1.0.
 - 1. Revise ECH-1 and ECH-2 voltage on schedule.
- b) Refer to Sheet: E1.0 and E2.0
 - 1. Revise ECH-1 and ECH-2 voltage on plan.

REASON FOR CHANGE: Per DTE requirement/recommendation.

ITEM NO. 3 Revise location of utility meter from inside to exterior.

- a) Refer to Sheet: E1.0 and E3.0.
 - 1. Revise location of utility meter.

REASON FOR CHANGE: Per DTE requirement.

ITEM NO. 4 Delete Exhaust Fan Control Wiring Diagram.

- a) Refer to Sheet: E3.0.
 - 1. Delete Control Wiring Diagram.

REASON FOR CHANGE: No longer needed after Addendum No.3 exhaust fan revisions.

ITEM NO. 5 Revise circuit breakers size from 20A., 2P. to 30A., 2p. for circuit breakers serving ECH-1 and ECH-2.

- a) Refer to Sheet: E1.0.
 - 1. Revise Panel Schedule RP-A.

REASON FOR CHANGE: Clarification.

ITEM NO. 6 Add branch circuit for WH-1.

- a) Refer to Sheet: E3.0.
 - 1. Add control branch circuit for WH-1.

REASON FOR CHANGE: Clarification.

END OF BULLETIN WRITE-UP

Prepared by:
NSA Architects, Engineers, Planners



Eric A. Stockwell
Project Architect

GRILLE, REGISTER AND DIFFUSER SCHEDULE							
TAG	BASIS OF DESIGN	TYPE	CFM RANGE	NECK SIZE	SURFACE MODULE	MAX NC	NOTES
S-1	TITUS, TDC	SUPPLY	0-160	6"	12x12	30	1
S-2	TITUS, TDC	SUPPLY	0-160	6"	24X24	30	1
S-3	TITUS, TDC	SUPPLY	300-500	10"	24X24	30	1
E-1	TITUS, 350R	EXHAUST	50-350	10"x10"	12"x12"	30	1
R-1	TITUS, PAR	RETURN	500-700	12"x12"	24"x24"	30	1
R-2	TITUS, PAR	RETURN	100-300	8"x8"	12"x12"	30	1

NOTES:
1) OPPOSED BLADE VOLUME DAMPER, WHITE FINISH

FAN SCHEDULE												
TAG	BASIS OF DESIGN	LOCATION	SERVICE	TYPE	CFM	E.S.P.	DRIVE	MOTOR DATA				COMMENTS
								HP	VOLTS	PHASE	Hz	
EF-1/EF-2	GREENHECK G-080 G	ROOF	FACILITY	CENTRIFUGAL	300	0.25	DIRECT	1/30	120	1	60	1,2,3

NOTES:
1) PROVIDE DISCONNECT SWITCH, BACK-DRAFT DAMPER, AND BIRDSCREEN.
2) PROVIDE ROOF CURB.
3) INTERLOCK WITH LIGHT SWITCH.

FURNACE SCHEDULE										
TAG	LOCATION	BASIS OF DESIGN		E.S.P.	CFM	HEATING SECTION		ELECTRICAL		NOTES/ACCESSORIES
		MANUFACTURER	MODEL NO.			INPUT (MBH)	OUTPUT (MBH)	VOLTS / PH / HZ	HP	
F-1	UTILITY ROOM	TRANE	TUH1B080A9H31A	0.50	1200	80	76	120/1/60	1/2	1,2

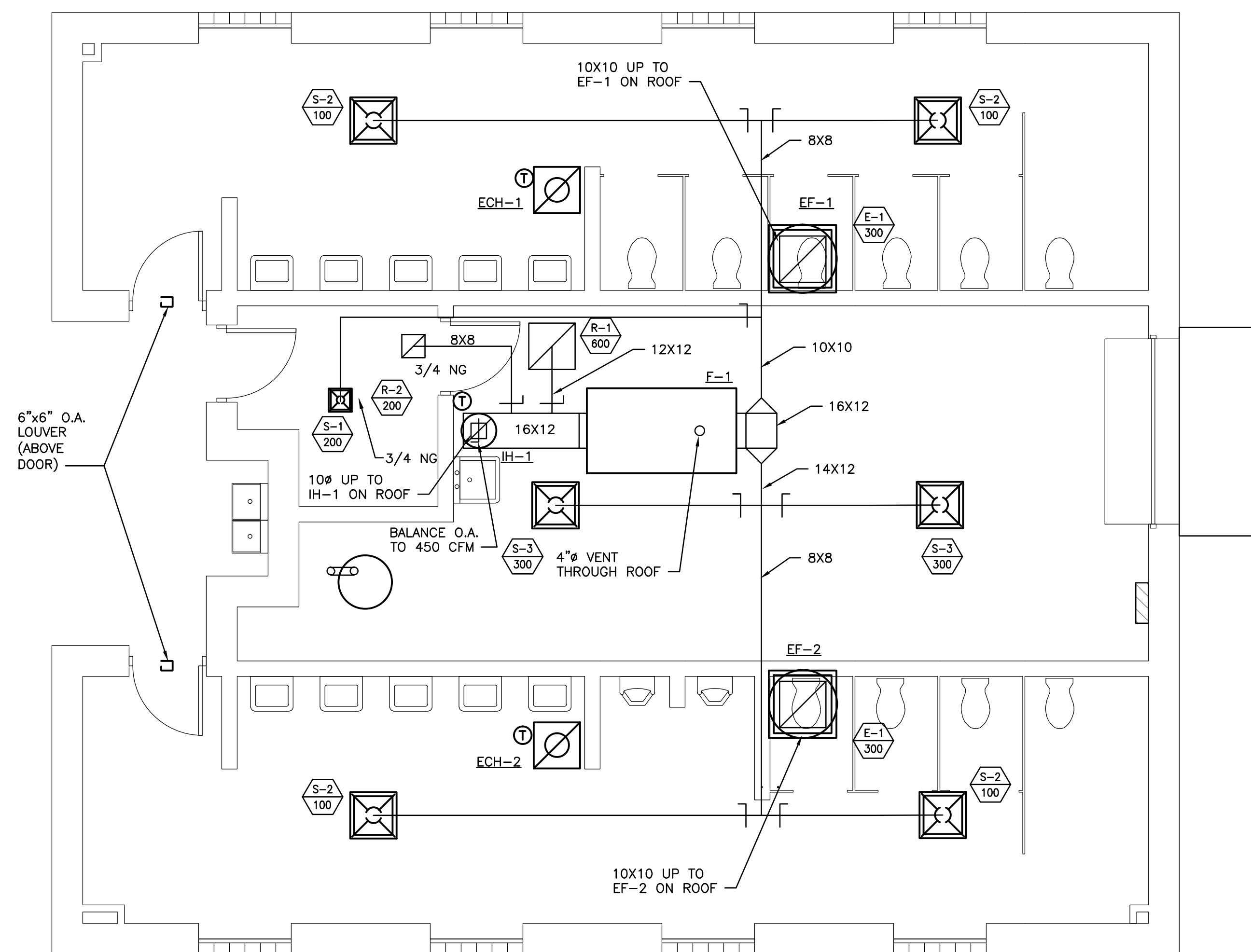
NOTES:
1) UNIT TO BE MOUNTED BETWEEN TRUSSES, SUPPORTED BY SPRING/ISOLATION MOUNTS AT FOUR CORNERS.
2) PROVIDE DISCONNECT SWITCH, DIGITAL TEMPERATURE ROOM SENSOR

INTAKE HOOD							
TAG	BASIS OF DESIGN	MODEL	TYPE	CFM RANGE	SIZE	THROAT DIA	NOTES
IH-1	GREENHECK	GRSF-10	INTAKE	450	20"	10"	1

NOTES:
1) PROVIDE INSECT/BIRD SCREEN, AND BACK-DRAFT DAMPER.

ELECTRIC CEILING HEATER SCHEDULE					
TAG	BASIS OF DESIGN	LOCATION	HEATING CAPACITY	ELECTRICAL	COMMENTS
ECH-1/ECH-2	MARKEL F3485A1	TOILET RM	5 KW	240/1	1,2

NOTE 1: INTEGRAL BUILT IN ADJUSTABLE THERMOSTAT, DISCONNECT SWITCH
NOTE 2: RECESS MOUNTED CEILING HEATER



HVAC FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

- PRIOR TO PURCHASE OF ANY MECHANICAL EQUIPMENT, MECHANICAL CONTRACTOR TO VERIFY EXACT SERVICE VOLTAGE (208V. VS. 240V.) WITH ELECTRICAL CONTRACTOR.
- RUN SUPPLY/EXHAUST/RETURN DUCTWORK ABOVE CEILING. PROVIDE INSULATION IN UNCONDITIONED SPACE.
- MOUNT F-1 FLUSH TO BOTTOM CHORD OF TRUSS. COORDINATE WITH STRUCTURAL.

Client:
CITY OF DEARBORN

DEARBORN MICHIGAN

Project Title:
FORD FIELD COMFORT STATION

Date:	Issued for:
03-18-2016	OWNER REVIEW
04-25-2016	BIDS & PERMITS
02-27-2017	BIDS & PERMITS
04-03-2017	ADDENDUM NO. 3
06-19-2017	CONSTRUCTION
05-16-18	BULLETIN NO. 1

Drawn:	SR	Designed:	SR
Checked:	DC	Approved:	BKJ

CAD Drawing File:
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Project Number: **215062.01**

Sheet Title:
HVAC PLAN

Sheet Number: **M1.0**

PANEL RP-A (UTILITY ROOM 103) 200A MCB, 120/240V, 1PH, 3W, 10 KAIC		LOAD IN KILO-VOLT-AMPS										LOAD IN KILO-VOLT-AMPS										LOAD DESCRIPTION		NO						
NO	LOAD DESCRIPTION	LOAD IN KILO-VOLT-AMPS					RCP	LTB	CB	P	CKT	PH	CKT	P	CB	LOAD IN KILO-VOLT-AMPS					LTG	RCP	MTS	MIS	KIT	HTG	A/C	NO		
		AC	HTG	KIT	MIS	MTS										MTS	MIS	KIT	HTG	A/C										
1	GATOR						10.40		100	2	1	A	2	1	20							2.30							MEN'S ROOM HAND DRYER	2
3							10.40								20						2.30							MEN'S ROOM HAND DRYER	4	
5	ECH-1		2.50												20						2.30							MEN'S ROOM HAND DRYER	6	
7			2.50											20						2.30							WOMEN'S ROOM HAND DRYER	8		
9	COILING DOOR (3/4 HP)					1.66								20						2.30							WOMEN'S ROOM HAND DRYER	10		
11	WOMEN'S ROOM 101 LTG.						0.59		20	1	11	B	12	1	20													WOMEN'S ROOM HAND DRYER	12	
13	OFFICE 102 & EXTERIOR LTG.						0.27		20	1	13	A	14	1	20						0.72							S. & E. UTILITY ROOM WALL RCPT. (2)	14	
15	UTILITY ROOM 103 LTG.						0.25		20	1	15	B	16	1	20						0.36							EXTERIOR RCPT. WEST SIDE (2)	16	
17	MEN'S ROOM 104 LTG.						0.54		20	1	17	A	18	1	20						0.72							EXTERIOR RCPT. SOUTH/WEST SIDE (4)	18	
19	NL/EM LTG.						0.18		20	1	19	B	20	1	20						0.36							OFFICE 102 RCPT. (2)	20	
21	EXTERIOR LTG.						0.51		20	1	21	A	22	1	20										2.50			ECH-2	22	
23	FLUSHMETERS				0.60				20	1	23	B	24	1	20										2.50				24	
25	EXTERIOR RCPT. WEST SIDE COLUMN (1)						0.18		20	1	25	A	26	1	20						0.18							UTILITY ROOM RCPT. (1)	26	
27	EXTERIOR RCPT. SOUTH SIDE COLUMN (1)						0.18		20	1	27	B	28	1	20						0.36							N. & W. UTILITY ROOM WALL RCPT. (2)	28	
29	DRINKING FOUNTAIN				0.02				20	1	29	A	30	1	20						0.18							MEN'S ROOM RCPT. (1)	30	
31	FURNACE F-1 1/2HP					1.18			20	1	31	B	32	1	20						0.18							WOMEN'S ROOM RCPT. (1)	32	
33	WH-1				0.05				20	1	33	A	34	1	20													SPARE	34	
35	SPACE								20	1	35	B	36	1	20													SPARE	36	
37	SPACE								20	1	37	A	38	1	20													SPARE	38	
39	SPACE								20	1	39	B	40	1	20													SPARE	40	
41	SPACE								20	1	41	A	42	1	20													SPARE	42	

CONNECTED KILO-VOLT-AMPS				DEMAND		DEMAND KILO-VOLT-AMPS				ACCESSORIES			
LOAD TYPE	A	B	TOTAL	1.00	NEC 220	LOAD TYPE	A	B	TOTAL				
LIGHTING (LTG)	1.50	1.20	2.70	1.00		LIGHTING	1.50	1.20	2.70				
RECEPTACLES (RCP)	12.20	11.66	23.86	0.66		RECEPTACLES	8.66	8.27	16.93				
MOTORS (MTS)	1.66	1.18	2.84	1.00		MOTORS	1.08	0.77	1.84				
MISCELLANEOUS (MIS)	6.97	7.50	14.47	0.66		MISCELLANEOUS	6.97	7.50	14.47				
KITCHEN (KIT)	0.00	0.00	0.00	0.66		KITCHEN	0.00	0.00	0.00				
HEATING (HTG)	5.00	5.00	10.00	0.66		HEATING	3.25	3.25	6.50				
AIR CONDITIONING (AC)	0.00	0.00	0.00	0.66		AIR CONDITIONING	0.00	0.00	0.00				
CONNECTED KVA	27.32	26.54	53.87			DEMAND KVA	21.45	20.99	42.44				
CONNECTED AMPS	227.70	221.18	224.44			DEMAND AMPS	178.76	174.94	176.65				

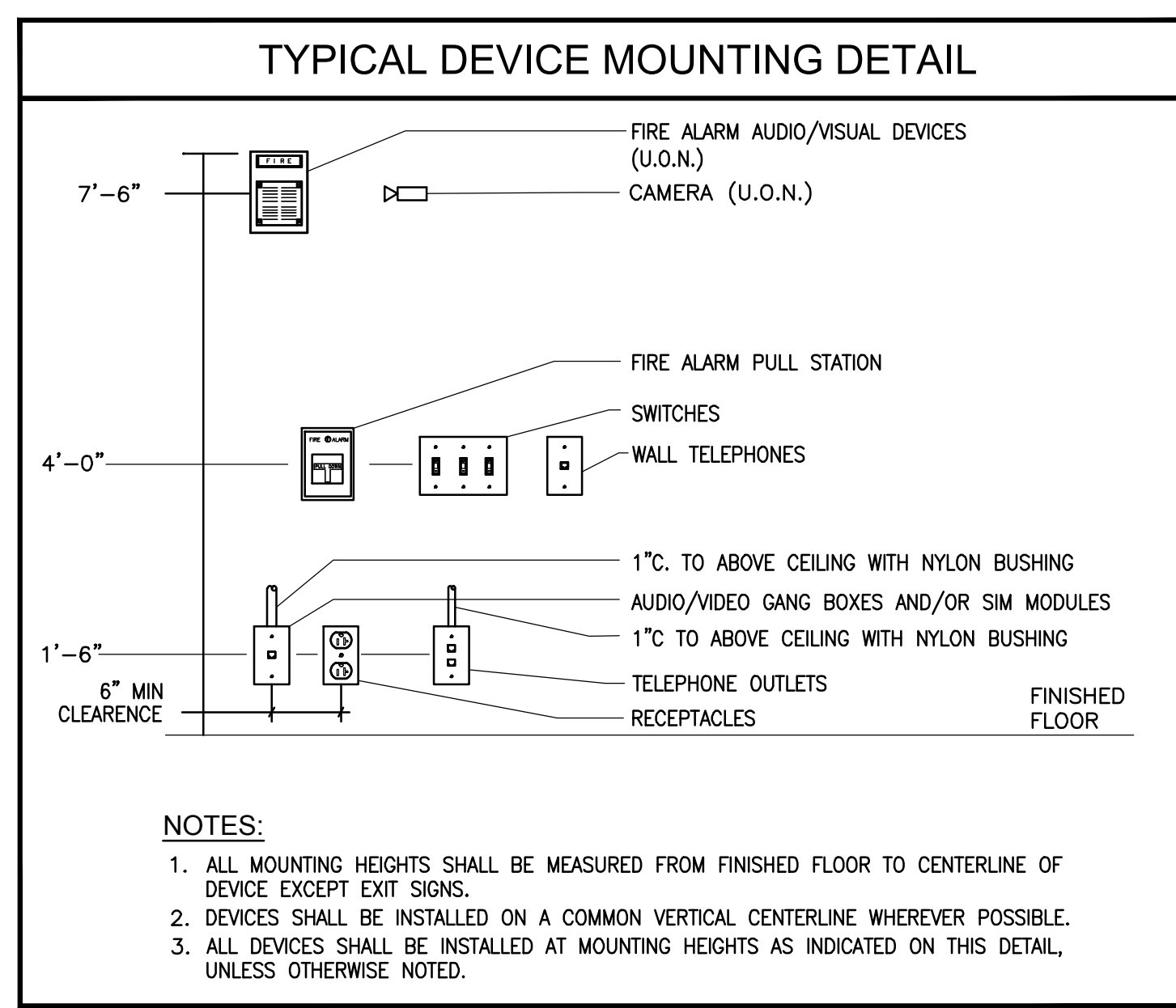
ELECTRICAL SYMBOL LIST	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE NEMA 5-20R-125V, WHEN NOTED "D" DEDICATED
	DOUBLE DUPLEX RECEPTACLE NEMA 5-20R-125V
	JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	SINGLE PHASE, THREE PHASE MOTOR
	ELECTRICAL PANELS (RECESSED, SURFACE MOUNTED @ 6"-6" A.F.F. TO TOP)
	ELEC SERVICE CONNECTION (SINGLE POINT) AT EQPT. DISCONNECT DEVICE BY EQPT MFR
	UTILITY METER
	CEILING OR WALL MOUNTED FIXTURE
	WALL MOUNTED 84" MIN. A.F.F. BATTERY POWERED EMERGENCY BACKUP LIGHT FIXTURE
	CEILING OR WALL MTD FLUORESCENT FIXTURE, SEE FIXTURE SCHED.
	SINGLE POLE TOGGLE SWITCH
	KEY OPERATED SWITCH
	PHOTOCELL
OCCUPANCY SENSOR ("C" CEILING) SENSOR SWITCH CMR-PDT DUAL TECHNOLOGY OR APPROVED EQUAL. OCCUPANCY SENSOR ("H" HALLWAY) SENSOR SWITCH HWR-16 OR APPROVED EQUAL. OCCUPANCY SENSOR ("W" WALL) SENSOR SWITCH WVR-16 OR APPROVED EQUAL. 6" BELOW CLG LINE.	

GENERAL ABBREVIATIONS			
A	AMPERES	KVA	KILOVOLT AMPERES
ADA	AMERICANS WITH DISABILITIES ACT	KW	KILOWATTS
AFF	ABOVE FINISH FLOOR	LTG	LIGHTING
AIC	AMPERE INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
AL	ALUMINUM	MDP	MAIN DISTRIBUTION PANEL/SECTION
ARCH	ARCHITECT	MECH	MECHANICAL
ATS	AUTOMATIC TRANSFER SWITCH	MSB	MAIN SWITCHBOARD
AWG	AMERICAN WIRE GAUGE	MISC	MISCELLANEOUS
CB	CIRCUIT BREAKER	MLO	MAIN LUGS ONLY
CKT/CIRC	CIRCUIT	NTS	NOT TO SCALE
COL	COLUMN	NIC	NOT IN CONTRACT
CT	CURRENT TRANSFORMER	PB	PUSHBUTTON
CU	COPPER	PC	PERSONAL COMPUTER
DWG	DRAWING	PNL	PANELBOARD
EF	EXHAUST FAN	PP	POWER PANEL
ELEC	ELECTRICAL	PVC	POLYVINYL CHLORIDE
EM	EMERGENCY	PWR	POWER
EMT	ELECTRICAL METALLIC TUBING	REQ'D	REQUIRED
EPO	EMERGENCY POWER-OFF	SP	SPARE
EWC	ELECTRIC WATER COOLER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FAAP	FIRE ALARM ANNUNCIATOR PANEL	UC	UNDERGROUND
FACP	FIRE ALARM CONTROL PANEL	UC	UNDER COUNTER
FLA	FULL LOAD AMPS	UON	UNLESS OTHERWISE NOTED
FMCS	FACILITY MANAGEMENT CONTROL SYSTEM	UH	UNIT HEATER
GRD	GROUND	V	VOLT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLT AMPERES
HQA	HAND-OFF-AUTOMATIC SWITCH	VIF	VERIFY IN FIELD
ICMS	INTEGRATED CARE MANAGEMENT SYSTEM	WH	WATER HEATER
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

CENTERLINE
 DELTA
 WYE
 Ø/PH PHASE

- ### GENERAL NOTES
- ALL WIRING IN CONDUITS SHALL RUN CONCEALED UNLESS OTHERWISE NOTED.
 - ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE.
 - CONSTRUCTION DOCUMENTS CONSIST OF PLANS, DETAILS, DIAGRAMS, AND SPECIFICATIONS.
 - ALL RACEWAYS AND CABLE TRAYS (IF ANY) RUNNING ACROSS BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
 - ELECTRICAL SERVICES (HOME RUNS) SHOWN ON THE DRAWINGS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL VERIFY ROUTING AND MEET CONDUCTOR FILL/AMAPACITY REQUIREMENTS PER THE NATIONAL ELECTRICAL CODE.
 - CONTRACTOR SHALL REVIEW CONTRACT DOCUMENTS OF ALL TRADES TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT, COORDINATE EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS.
 - REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATION OF ALL DEVICES UNLESS SHOWN ON ELECTRICAL DRAWINGS.
 - PROVIDE ALL REQUIRED SUPPORTS AND MATERIALS TO INSTALL ELECTRICAL DEVICES AND EQUIPMENT. COORDINATE WITH MANUFACTURERS SUBMITTALS.
 - ALL ELECTRICAL WIRING FROM THE SERVICE ENTRANCE TO DOWNSTREAM DEVICES SHALL BE COPPER (CU) UNLESS OTHERWISE NOTED ON PLANS.
 - LIGHTING/RECEPTACLE BRANCH CIRCUITS 100 FEET AND FURTHER FROM THEIR ASSOCIATED PANELS SHALL BE FED WITH #10 WIRING MINIMUM. UNLESS OTHERWISE NOTED.
 - PROVIDE LABELING OF CIRCUIT NUMBERS ALL RECEPTACLES.
 - ELECTRICAL CONTRACTOR TO VERIFY EXACT SERVICE VOLTAGE (208V. VS. 240V.) WITH UTILITY COMPANY AND COORDINATE EQUIPMENT VOLTAGE REQUIREMENTS WITH MECHANICAL TRADES.

LUMINAIRE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	LAMP	VOLTS	MOUNTING	DESCRIPTION
LA	JUNO	L6-50401-G3-L600P-CS-WET	LED 45.3W.	120	RECESS	6" DIAMETER RECESSED LED DOWNLIGHT, IC RATED.
LAE	JUNO	L6-50401-G3-BR L600P-CS-WET	LED 45.3W.	120	RECESS	6" DIAMETER RECESSED LED DOWNLIGHT WITH EMERGENCY BATTERY BACK-UP, IC RATED.
LB	LITHONIA	LED Z SERIES ZL2NL48-3000LM-MDD-35K-80CRI-WH	LED 42W.	MVOLT	SURFACE/CHAIN HUNG	4' LONG SURFACE CEILING/CHAIN HUNG LED LENSED STRIPLIGHT FIXTURE.
LC	SOLERA	SMRT-24LED-120-OPL-TP-SG	LED 29W.	120	SURFACE	9 1/2" DIAMETER SURFACE MOUNTED LED LAMP
EM	LITHONIA	ELM2-LED-HO	6W	MVOLT	CEILING	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK FOR 90 MINUTES



Client: CITY OF DEARBORN

DEARBORN MICHIGAN

Project Title: FORD FIELD COMFORT STATION

Date: 04-25-2016 Issued for: BIDS & PERMITS
 02-27-2017 BIDS & PERMITS
 04-03-2017 ADDENDUM NO. 3
 06-19-2017 CONSTRUCTION
 05-16-18 BULLETIN NO.1

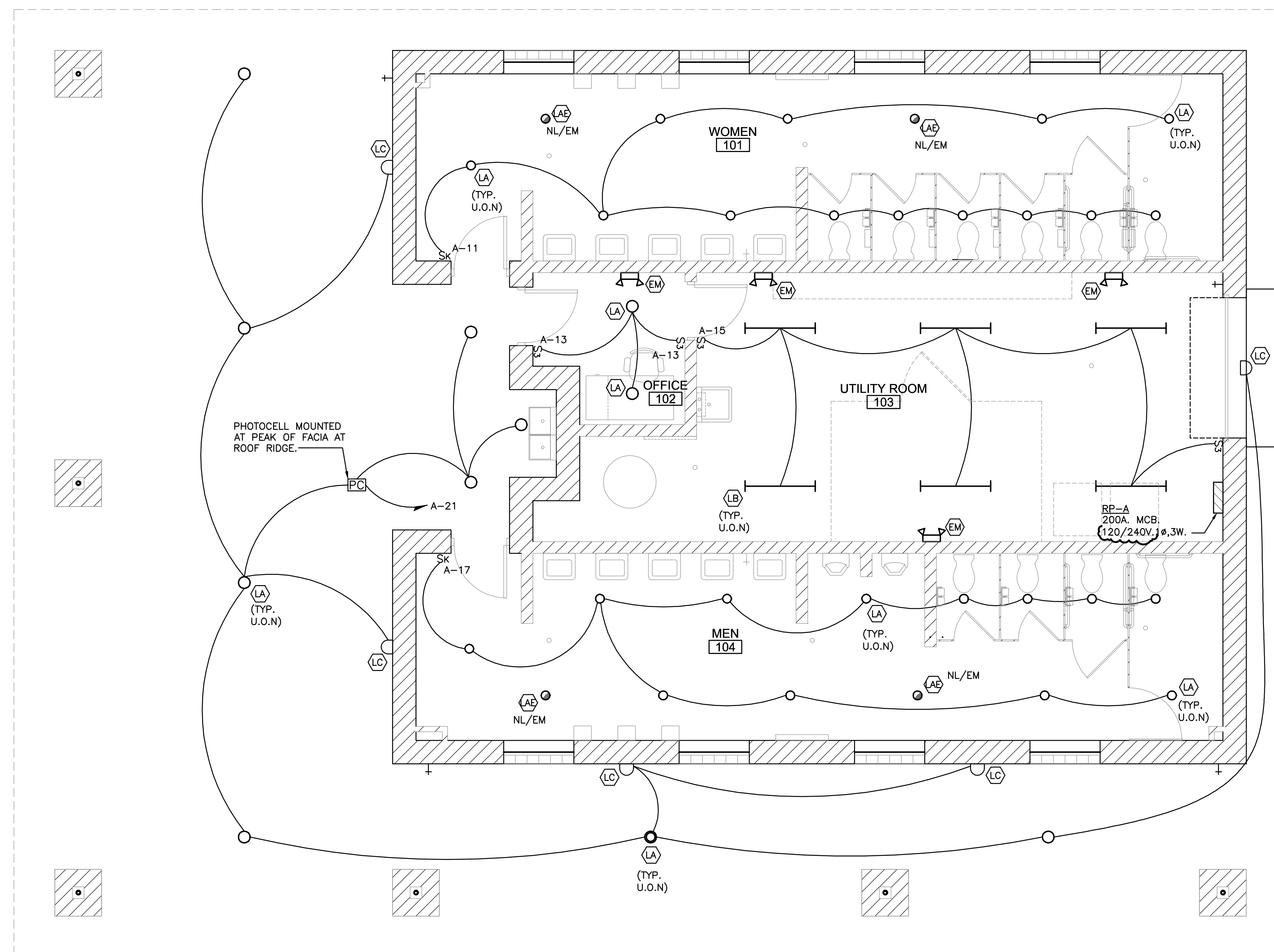
Drawn: KG Designed: JC
 Checked: JC Approved: JC

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Project Number: 215062.01

Sheet Title: ELECTRICAL SYMBOLS, LEGENDS, LUMINAIRE SCH. & NOTES

Sheet Number: E1.0



Client:

CITY OF DEARBORN

DEARBORN MICHIGAN

Project Title:

FORD FIELD
COMFORT STATION

Date:

04-25-2016
02-27-2017
06-19-2017
05-16-18

Issued for:

BIDS & PERMITS
BIDS & PERMITS
CONSTRUCTION
BULLETIN NO. 1

LIGHTING PLAN
SCALE: 1/4" = 1'-0"

Drawn: KG Designed: JC

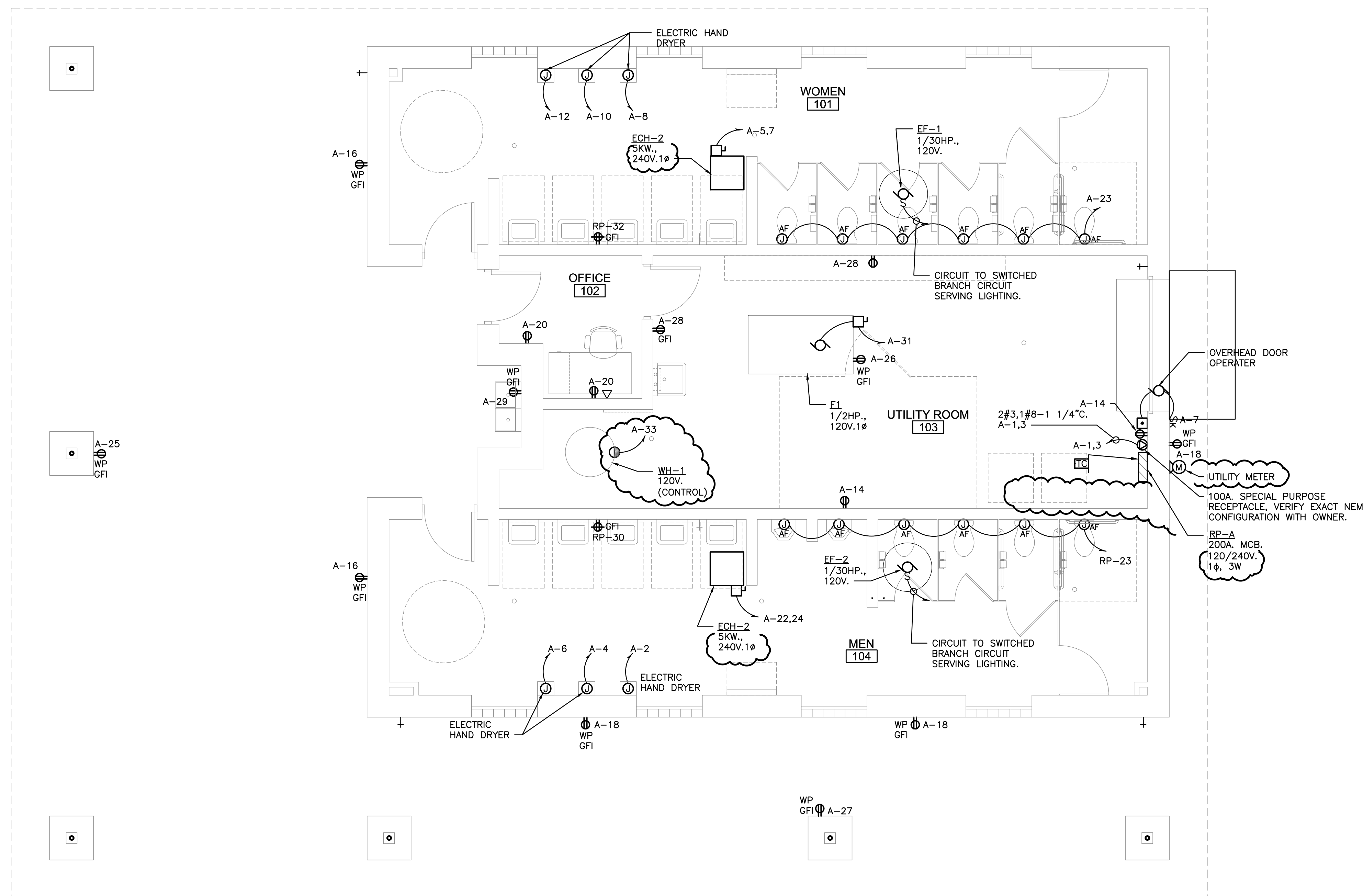
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Project Number: 215062.01

Sheet Title:
LIGHTING PLAN

Sheet Number: E2.0

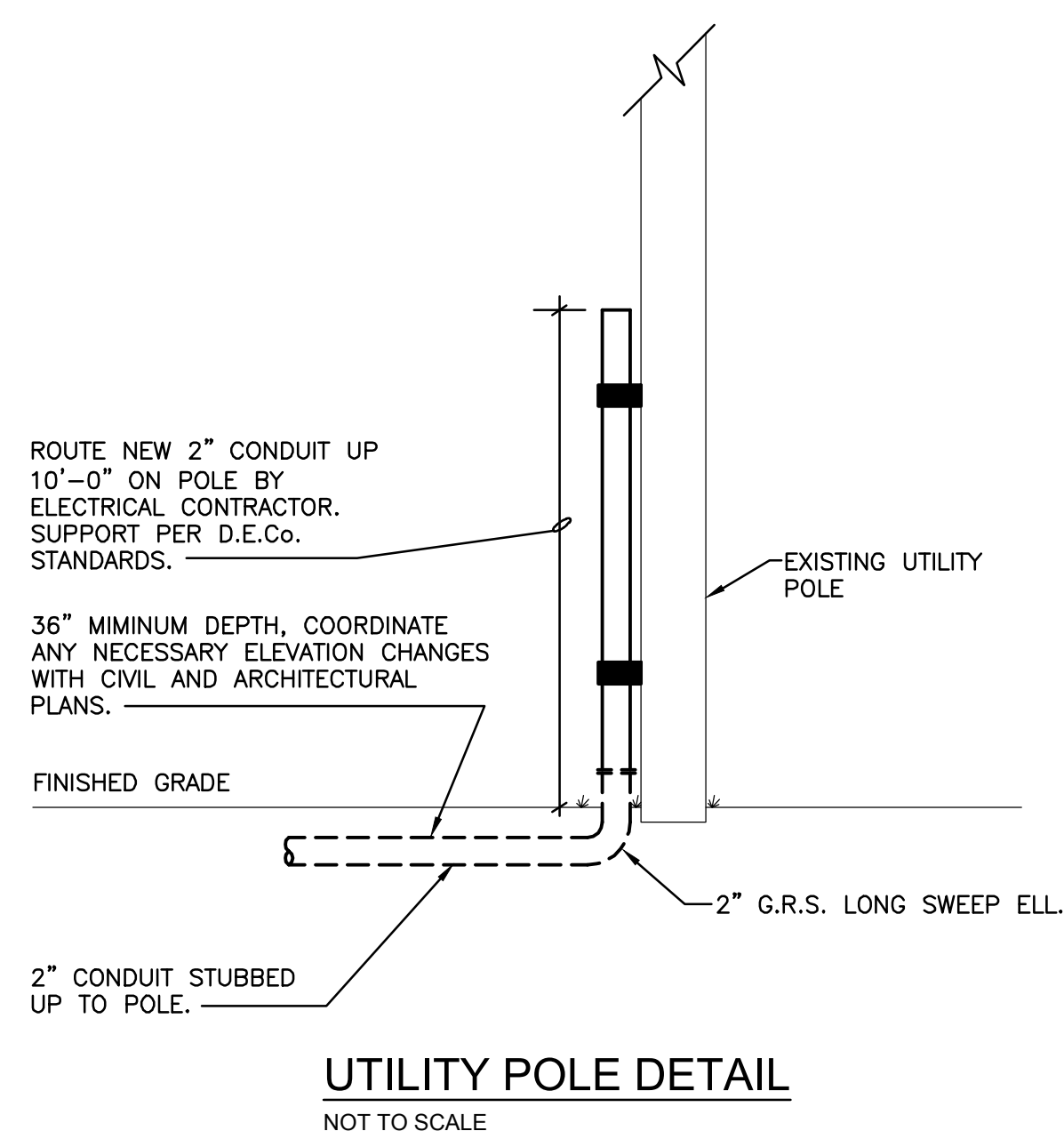


Client:
CITY OF DEARBORN

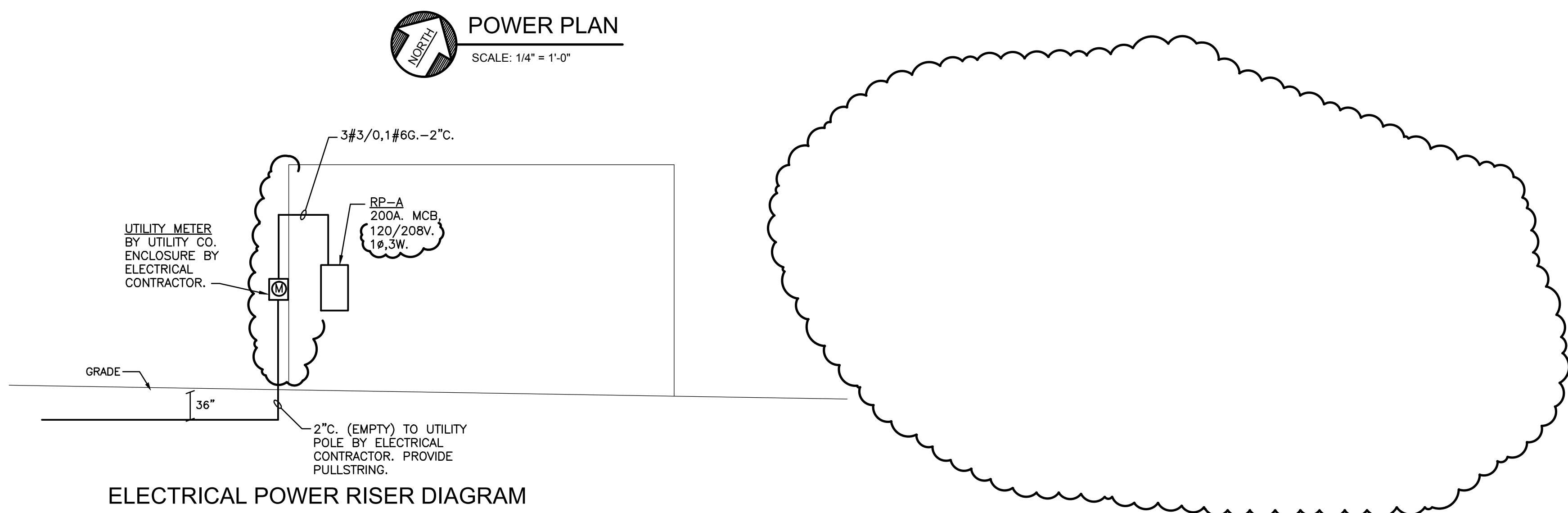
DEARBORN MICHIGAN

Project Title:
**FORD FIELD
COMFORT STATION**

Date:	Issued for:
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UTILITY POLE DETAIL
NOT TO SCALE



ELECTRICAL POWER RISER DIAGRAM

Drawn:	KG	Designed:	JC
Checked:	JC	Approved:	JC

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Project Number: **215062.01**

Sheet Title:
POWER PLAN