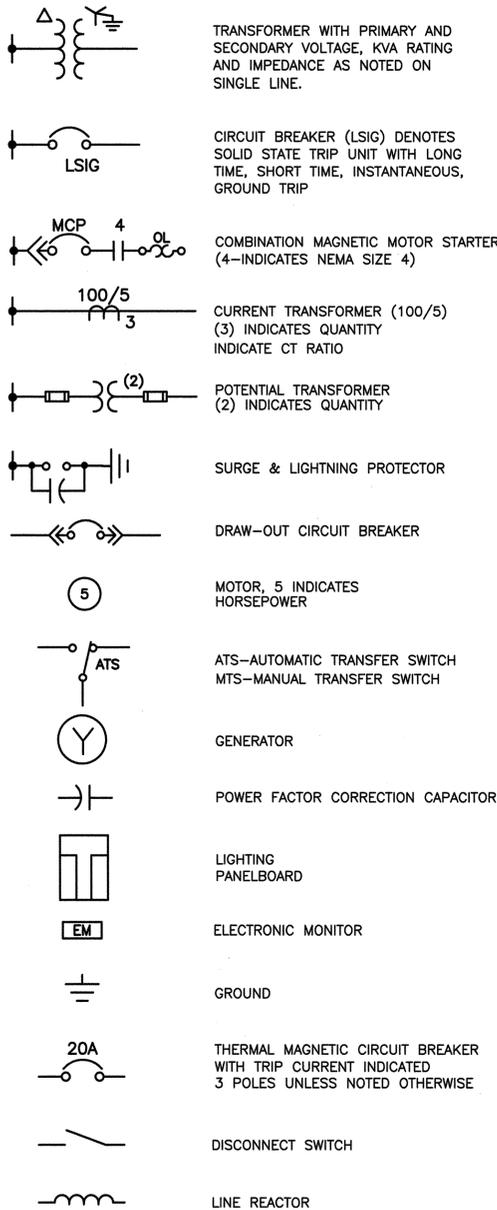


**SINGLE LINE DIAGRAM**



**LETTER DENOTES**

A=AMMETER  
 KWD=KILOWATT/ HOUR DEMAND METER  
 VAR=REACTIVE POWER METER  
 PF=POWER FACTOR METER  
 V=VOLTMETER  
 M=UTILITY METER

AS=AMMETER SWITCH  
 VS=VOLTMETER SWITCH

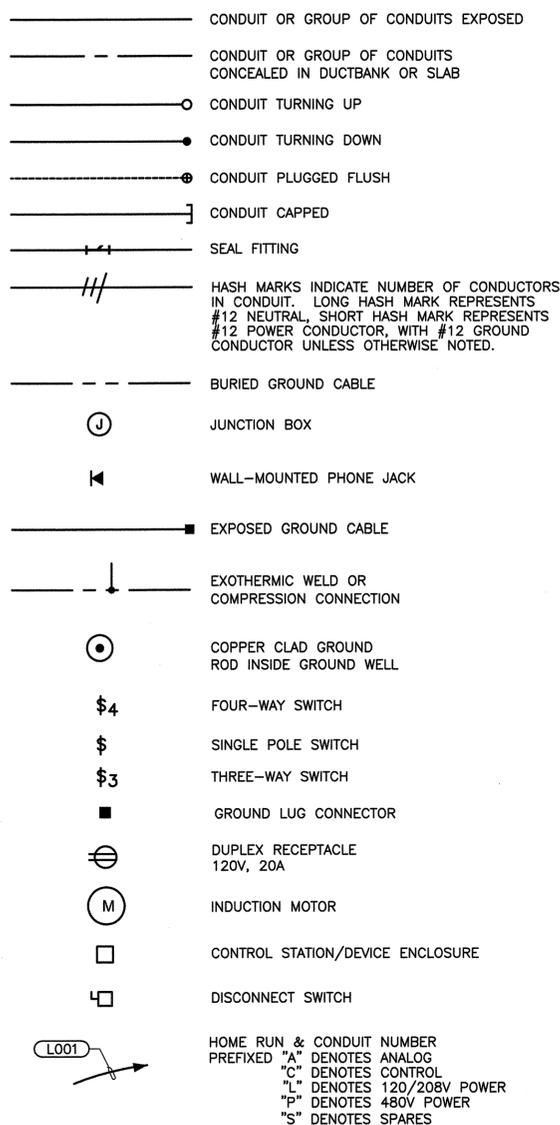
EM ELECTRONIC METER

VFD VARIABLE SPEED DRIVE

20 NUMBER INDICATES KW/KVA, ie 20KW

K KEY INTERLOCK

**PLAN**



**CIRCUIT NUMBERING**

POWER & CONTROL  
 SD-4XX 480VAC CIRCUIT  
 SD-1XX 120VAC CONTROL CIRCUIT

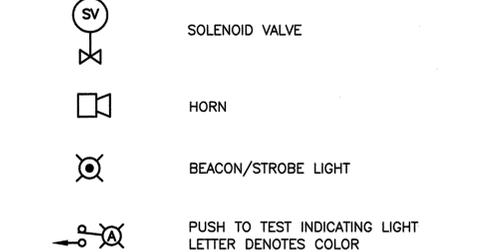
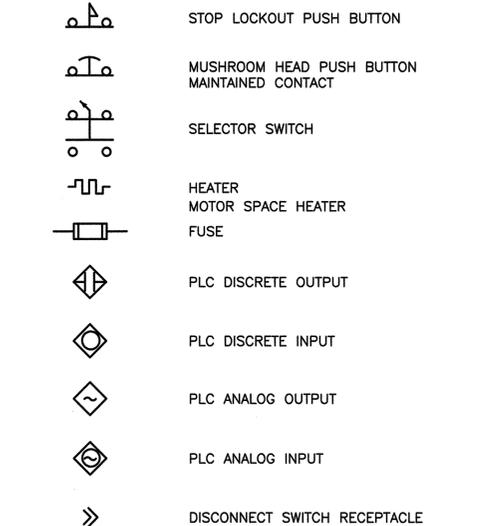
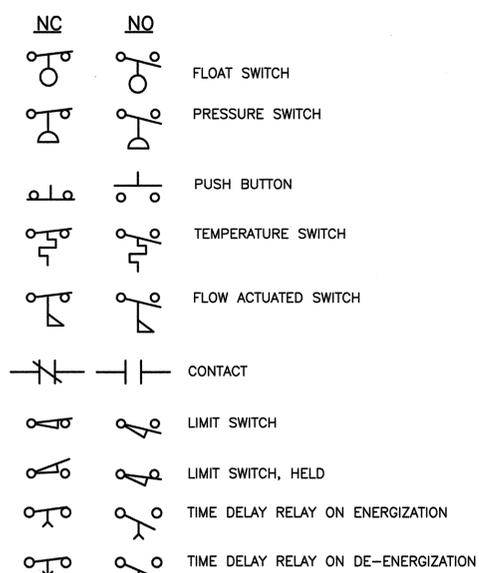
PREFIX LETTER DENOTES POWER SOURCE  
 LP1-1 LIGHTING POWER CIRCUIT.  
 (A) (A) DENOTE PHASE CONNECTION.  
 FIT010 INSTRUMENTATION DEVICE NUMBER  
 SAME AS LOOP NUMBER.

"D" DENOTES LUMINAIRE TYPE  
 "70" DENOTES WATTAGE  
 SEE SECTION 16501 OF SPEC.

**LETTER DENOTES**

FS = FLOW SWITCH  
 LSH = LEVEL SWITCH HIGH  
 LSL = LEVEL SWITCH LOW  
 LS = LIMIT SWITCH  
 TS = TEMPERATURE SWITCH  
 T = THERMOSTAT  
 H = HEATING UNIT  
 S = SOLENOID VALVE  
 SD = SMOKE DETECTOR  
 G = COMBUSTIBLE GAS SENSOR  
 Y = H<sub>2</sub>S SENSOR

**SCHEMATIC DIAGRAM**



**LETTER DENOTES**

C=CONTACTOR  
 CR=CONTROL RELAY  
 IR=INTRINSICALLY SAFE RELAY  
 LR=LATCH RELAY  
 M=MOTOR STARTER  
 PC=PHOTOCELL  
 RTM=RUNNING TIME METER  
 SV=SOLENOID VALVE  
 TR=TIME DELAY RELAY

**SCHEMATIC DIAGRAM CONTINUED**

**LOCATION LEGEND**

- \* DEVICE LOCATED AT MCC
- Δ DEVICE LOCATED AT FIELD
- ▲ DEVICE IN CONTROL PANEL
- ◇ DEVICE IN CONTROL STATION/DEVICE ENCLOSURE
- ☑ DEVICE IN MOTOR AND/OR TERMINAL BOX
- DEVICE IN FIELD MOUNTED BOX

**AREA CLASSIFICATION LEGEND**

- CLASS 1, DIVISION 1, GROUP D
- CLASS 1, DIVISION 2, GROUP D
- UNCLASSIFIED

**ABBREVIATIONS**

- AFF ABOVE FINISHED FLOOR
- AG ABOVE GRADE
- ANN ANNUNCIATION
- ATS AUTO TRANSFER SWITCH
- BC BOARD
- BD BELOW CEILING
- CAS CONTROL AND STATUS
- C CONDUIT
- CB CIRCUIT BREAKER
- CBM CABLES BY MANUFACTURER
- CKT CIRCUIT
- C.O. CONDUIT ONLY
- CP CONTROL PANEL
- CR CONTROL RELAY
- CS CONTROL STATION (SEE NOTE 11)
- CTR CONTRACTOR
- CTRL CONTROL
- DISC. SW. DISCONNECT SWITCH
- DWG DRAWING
- DB DUCT BANK
- DP DISTRIBUTION PANEL
- E ELECTRICAL
- EM ELECTRONIC MONITOR
- ELEV ELEVATION
- (E) EXISTING
- EP EXPLOSION-PROOF
- FDR FEEDER
- GND GROUND
- H-O-A HAND-OFF-AUTO
- INTLK INTERLOCK
- IR INTRINSICALLY SAFE RELAY
- LC LIGHTING CONTACTOR
- LD LEAK DETECTOR
- LOR LOCAL-OFF-REMOTE
- LOS LOCKOUT STOP
- LTG LIGHTING
- LTS LIGHTS
- LSIG LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
- LSG LONG TIME, SHORT TIME, GROUND.
- MCC MOTOR CONTROL CENTER
- MCP MOTOR CIRCUIT PROTECTOR
- MH MOUNTING HEIGHT
- MS MOTION SENSOR
- MSH MOTOR SPACE HEATER
- MTR MOTOR
- MTS MANUAL TRANSFER SWITCH
- NTS NOT TO SCALE
- OIU OPERATOR INTERFACE UNIT
- PNL PANEL
- PC PHOTO CELL
- PLC PROGRAMMABLE LOGIC CONTROLLER
- PWR POWER
- PB PULL BOX
- RTD RESISTANCE TEMPERATURE DETECTOR

**GENERAL NOTES**

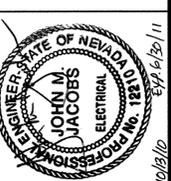
1. THE CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER DISCIPLINES FOR EXACT LOCATIONS OF ALL EQUIPMENT AND DEVICES REQUIRING ELECTRICAL POWER AND/OR CONTROL.
2. ELECTRICAL FLOOR PLANS DO NOT SHOW ALL CONNECTIONS. THE CONTRACTOR SHALL REFER TO ALL ELECTRICAL SCHEMATIC DIAGRAMS & VENDOR SHOP DWGS. FOR ADDITIONAL FIELD WIRING REQUIREMENTS.
3. ALL ELECTRICAL TYPICAL DETAILS SHOWN IN THE SPECIFICATIONS SHALL BE FOLLOWED WHERE APPLICABLE WHETHER SPECIFICALLY REFERRED TO OR NOT.
4. ALL WALL MOUNTED ENCLOSURES SHALL BE INSTALLED AT APPROXIMATELY 5 FEET FROM TOP OF ENCLOSURES TO FINISHED GRADE OR FLOOR UNLESS SPECIFICALLY INDICATED OTHERWISE.
5. ALL CONVENIENCE OUTLETS, LIGHTING SWITCHES, AND MANUAL STARTERS SHALL BE MOUNTED AT 4"-6" (CENTER LINE) ABOVE FINISHED FLOOR.
6. ALL POWER AND LIGHTING CIRCUITS SHALL EACH BE PROVIDED WITH AN INSULATED GREEN GROUND WIRE INSTALLED IN THE SAME CONDUIT AS POWER CONDUCTORS.
7. PROVIDE AN INSULATED GREEN GROUND FOR CONTROL CIRCUITS IN ALL CONDUITS.
8. CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND UTILITIES BEFORE ANY EXCAVATION.
9. CIRCUIT ORIGINATING FROM 120/208 OR 120/240V LIGHTING PANEL SHALL BE PREFIXED BY LIGHTING PANEL NUMBER.
10. EQUIPMENT SUCH AS LIGHTING PANEL, CONTROL PANEL, COMBINATION STARTER, ETC. SHOWN WALL MOUNTED, SHALL BE STRUCTURALLY SUPPORTED BY PREFORMED GALVANIZED VERTICAL CHANNELS.
11. CONTROL STATIONS ARE THE LOCATION OF MULTIPLE HAND SWITCHES AND CONTROL DEVICES. REFER TO SCHEMATIC DIAGRAM FOR ACTUAL DEVICES.
12. SEE DRAWINGS FOR RACEWAY/WIRE SCHEDULE AND PANEL SCHEDULE.
13. ALL OUTDOOR ABOVE GRADE CONDUITS SHALL BE PVC COATED RIGID STEEL.
14. ALL CONDUITS ROUTED ON/IN STRUCTURES WITH STRUCTURAL EXPANSION JOINTS SHALL BE INSTALLED PER **E144 TYP**.
15. ALL INSTALLATION SHALL BE DONE IN AN ACCEPTABLE WORKMANLIKE MANNER.
16. JOBSITE CONDITIONS ARE: ELEVATION 4,651.00 FEET ABOVE SEA LEVEL. TEMPERATURE -30' TO 100°F; HUMIDITY 10% TO 100%. FOR WIND PARAMETERS, SEE SECTION 01614. FOR SEISMIC PARAMETERS, SEE SECTION 01612.
17. EXISTING SPARE CONDUITS. CONTRACTOR TO VERIFY THE CONDITION OF THE CONDUITS, CLEAN AND CLEAR OBSTRUCTIONS PRIOR TO PULLING CABLE. CONTRACTOR SHALL FIELD VERIFY ALL THE EXISTING CIRCUITS AND CONDUITS FOR REWIRING THE NEW EQUIPMENT WITH EXISTING CIRCUITS.
18. CONTRACTOR SHALL BACKFILL, RE-COMPACT AND RE-PAVE THE FINISH GRADE TO REQUIRED EXISTING ELEVATIONS AND SLOPES DUE TO ANY SETTLEMENT OR WASHING WAY THAT MAY OCCUR FROM INSTALLING THE ELECTRICAL DUCTBANKS.
19. THE ENTIRE NEW ELECTRICAL SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SPECIFICATION SECTION 16950.
20. REFER TO SPECIFICATION SECTION 01140 FOR RESTRICTIONS AND CONSTRAINTS.
21. GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS.

**ABBREVIATIONS**

- SH, SHLD SHIELDED
- SLOS STOP-LOCKOUT-START
- SN SOLID NEUTRAL
- SSC SOFT START CONTROLLER
- SST SOLID STATE TRIP UNIT
- SP SPARE
- S OR SW SWITCH
- TDC TIME DELAY CLOSE
- TDD TIME DELAY DE-ENERGIZE
- TDE TIME DELAY ENERGIZE
- TDO TIME DELAY OPEN
- TERM TERMINAL
- TS TEMPERATURE SWITCH
- TB TERMINAL BOX
- XFMR TRANSFORMER
- TP TWISTED PAIR
- TSP TWISTED SHIELDED PAIR
- UG UNDERGROUND
- VFD VARIABLE FREQUENCY DRIVE
- WP WEATHERPROOF

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS DRAWING, VERIFY SCALES ACCORDINGLY

DESIGNED	EC	DRAWN	RAV/VM	CHECKED	JMJ	DATE	OCTOBER 2010
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REV.	DATE	DESCRIPTION	BY	APPD

**CARSON CITY PUBLIC WORKS**  
**NORTH LIFT PUMP STATION IMPROVEMENTS**  
 CARSON CITY CIP NO. 5.0609  
 ELECTRICAL  
 LEGEND & GENERAL NOTES

DRAWING NO.  
**E-1**  
 SHEET NO.  
 31 OF 55



SCALE: 1" = 20'

BUTTI WAY

EM219 TYP  
POWER PULL BOX  
(PPB-1)  
(NEMA 4X S/S)  
(TYP. OF 2)

E102 TYP  
A-0101  
XA-0101  
XA-0102

E102 TYP  
P-M-409  
L-M-0101  
C-0101  
XP-0101  
XP-0102  
XP-0103  
XL-0101  
XC-0101  
XC-0102

SIGNAL PULL BOX  
(SPB-1)  
(NEMA 4X S/S)

UNDER GROUND  
CONCRETE PULL BOX  
(PPB-2)

ELECTRICAL  
EQUIPMENT RACK

UNDER GROUND  
CONCRETE SIGNAL  
PULL BOX (SPB-2)

SCREENING STRUCTURE  
& MECHANICAL  
SCREENING/WASHER  
COMPACTOR  
01-MS-201

E102 TYP  
A-0102  
A-0102A

2 NEW EXISTING  
SITE LIGHTING  
LOCATION

EXISTING SITE  
LIGHTING  
(TO BE RELOCATED)

NORTH LIFT METER  
VAULT  
B 1  
E-5 E-3

A-0101 C-0101  
NEW PLC-01  
(E) TERM. BD-M

MAINTENANCE SHOP  
BLDG. NO. 12B

P-M-409  
L-M-0101

L-M-0102  
(E) MCC-M (LP-M)

NORTH LIFT PUMP  
STATION  
A A  
E-5 E-3

ODOR SCRUBBER  
BLOWER  
01-OS-203

PRIMARY SLUDGE  
BLDG.

(E) MCC-PSB  
(LP-PSB)

(E) TERM BD-PS

1 NEW MODBUS+  
BRIDGE PANEL

L-PSB-0801

NOTES:  
1. FOR LEGEND AND SYMBOLS SEE DRAWING E-1.

KEY NOTES:  
1. UTILIZE EXISTING CONDUITS BETWEEN (E) TERM BD-PS  
PANEL AND (E) TERM. BD-M, PROVIDE 1 MODBUS CABLE  
TO CONNECT NEW MODBUS+ BRIDGE PANEL AND NEW  
PLC-01. PROVIDE 3/4" CONDUIT BETWEEN EXISTING AND  
NEW PANEL FOR THE MODBUS CABLE.  
2. RELOCATE THE EXISTING SITE LIGHTING TO THE NORTHWEST  
DIRECTION, AS SHOWN ON PLAN, TO AVOID CONFLICT WITH  
THE NEW PIPING INSTALLATION. RECONNECT THE CONDUIT  
AND WIRING ACCORDINGLY.

VERIFY SCALES  
BAR IS ONE INCH ON  
ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON  
SCALES ACCORDINGLY

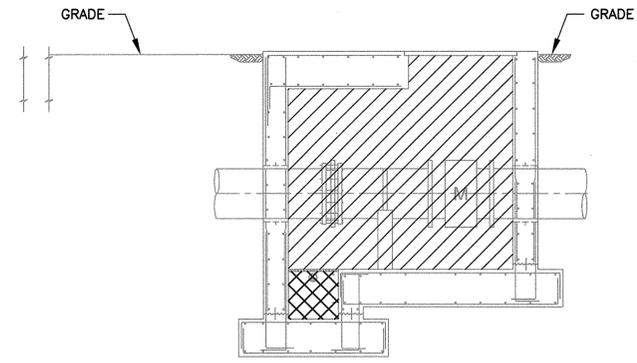
DESIGNED	EC
DRAWN	RAV/JVJ
CHECKED	JMU
DATE	OCTOBER 2010



REV.	DATE	DESCRIPTION	BY	APP'D

CARSON CITY PUBLIC WORKS  
NORTH LIFT PUMP STATION IMPROVEMENTS  
CARSON CITY CIP NO. 5.0609  
ELECTRICAL  
ELECTRICAL SITE PLAN

DRAWING NO.  
E-2  
SHEET NO.  
32 OF 55



**1** NORTH LIFT METER VAULT SECTION  
 - BID ALTERNATE "A"  
 E-2 SCALE: N.T.S.  
 FILE: -

**NOTES:**  
 1. ALL CODE CITATIONS REFER TO NFPA 820, 2003 EDITION.

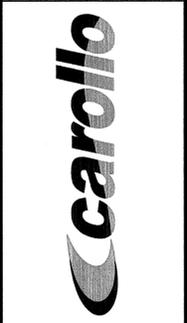
**AREA CLASSIFICATION LEGEND**

	CLASS 1, DIVISION 1, GROUP D
	CLASS 1, DIVISION 2, GROUP D
	UNCLASSIFIED

**KEY NOTES:**  
 1. 3 FT. ENVELOPE AROUND POTENTIAL LEAKAGE SOURCES SUCH AS FANS, DAMPERS, FLEXIBLE CONNECTIONS, FLANGES AND PRESSURIZED UNWELDED DUCT-WORKS.

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON SCALES ACCORDINGLY

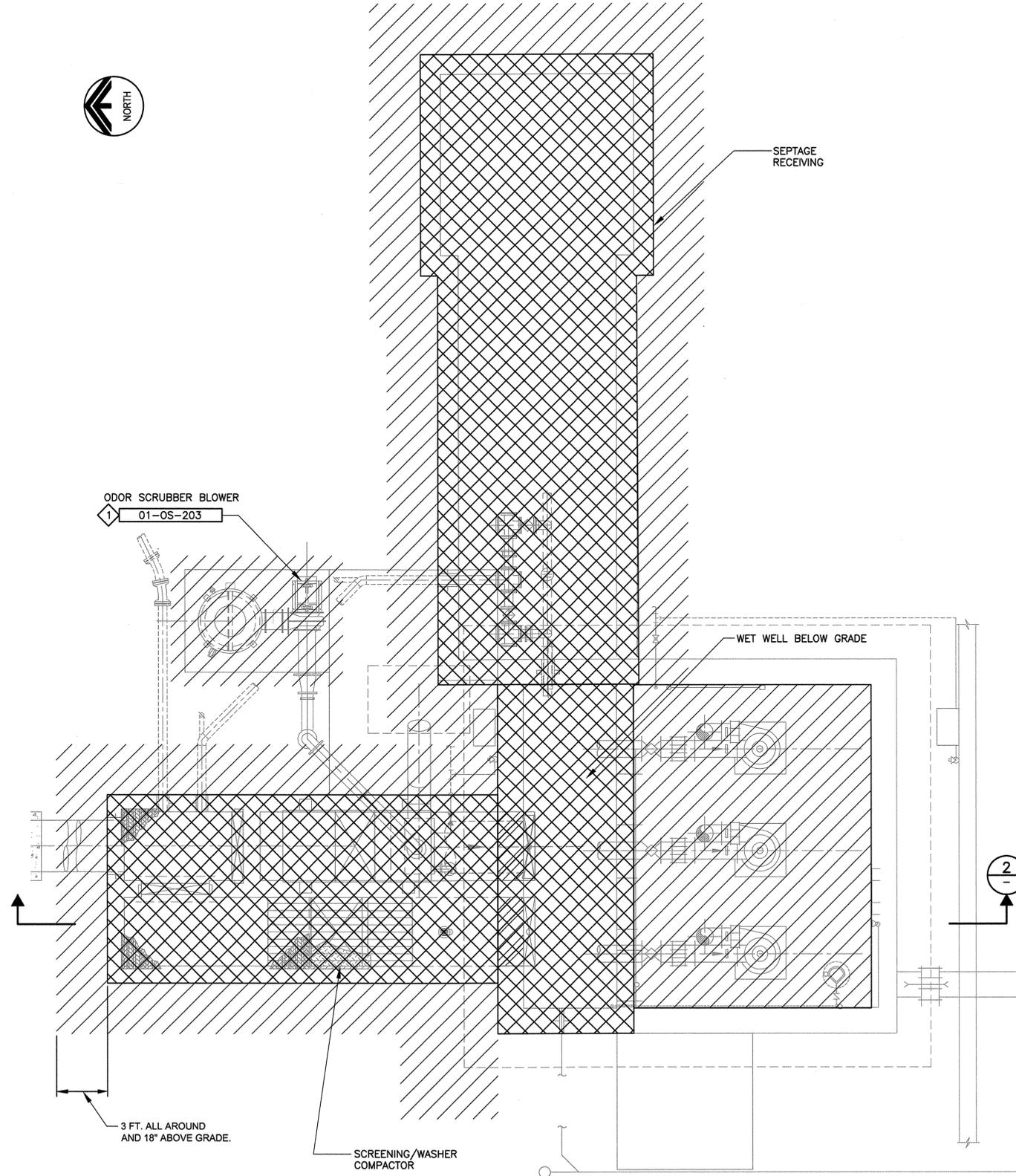
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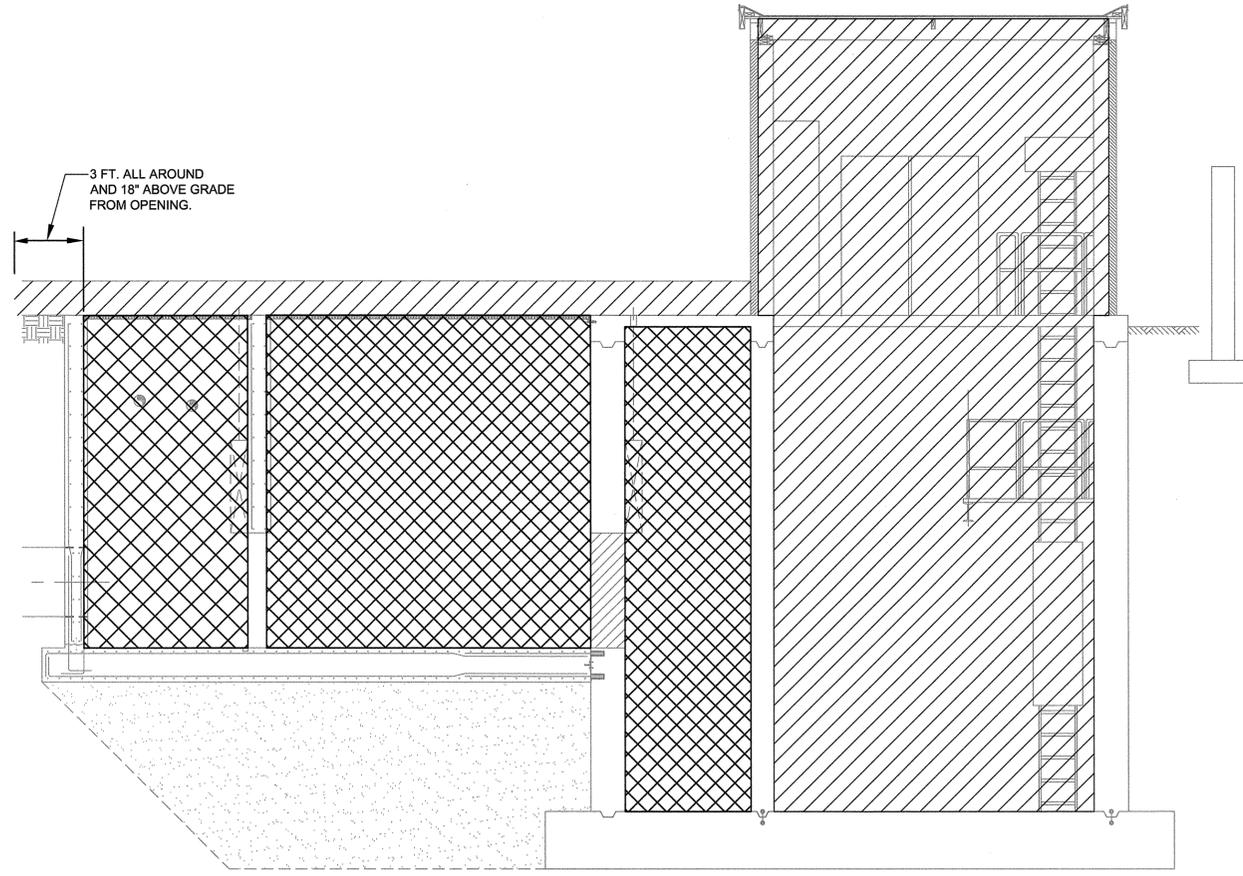
REV.	DATE	DESCRIPTION	BY	APP'D

CARSON CITY PUBLIC WORKS  
 NORTH LIFT PUMP STATION IMPROVEMENTS  
 CARSON CITY CIP NO. 5.0609  
 ELECTRICAL  
 AREA CLASSIFICATIONS

DRAWING NO.  
 E-3  
 SHEET NO.  
 33 OF 55



**A** NORTH LIFT PUMP STATION  
 E-2 SCALE: 1/4"=1'-0"  
 FILE: -



**2** NORTH LIFT PUMP STATION SECTION  
 - SCALE: 1/4"=1'-0"  
 FILE: -



(E) SEPTAGE RECEIVING STATION

(E) NORTH LIFT PUMP STATION

**B** NORTH LIFT METER VAULT PLAN - BID ALTERNATE "A"

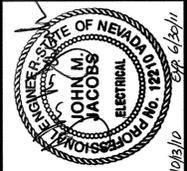
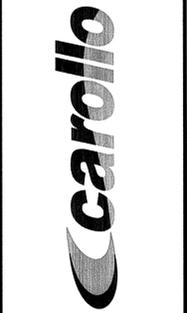
**1** SECTION - BID ALTERNATE "A"

- NOTES:**
- FOR LEGENDS AND SYMBOLS, SEE DWG NO. E-1.
  - FOR AREA CLASSIFICATION, SEE DWG. E-3.
  - SEE SPECIFICATION FOR WORK RESTRICTION.

- KEY NOTES:**
- ALL THE CONDUITS AND INTERCONNECTING WIRING WILL BE PROVIDED BY THE CONTRACTOR. COORDINATE WITH THE EQUIPMENT MANUFACTURER FOR THE CONDUITS AND WIRING REQUIREMENTS.
  - NEMA 7 J-BOX. SEPARATE J-BOX FOR SIGNAL AND CONTROL.
  - VENDOR PROVIDED SENSOR CABLE.
  - TO GROUND GRID OR GROUND WELL. IF PROVIDED WITH GROUNDING RING AND GROUNDING STRAPS FOLLOW MANUFACTURER'S GROUNDING INSTRUCTIONS.
  - P-M-409RA
  - L-M-0101A L-M-0101B
  - P-M-409 L-M-010
  - L-M-0101

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS DRAWING, SCALES ACCORDINGLY

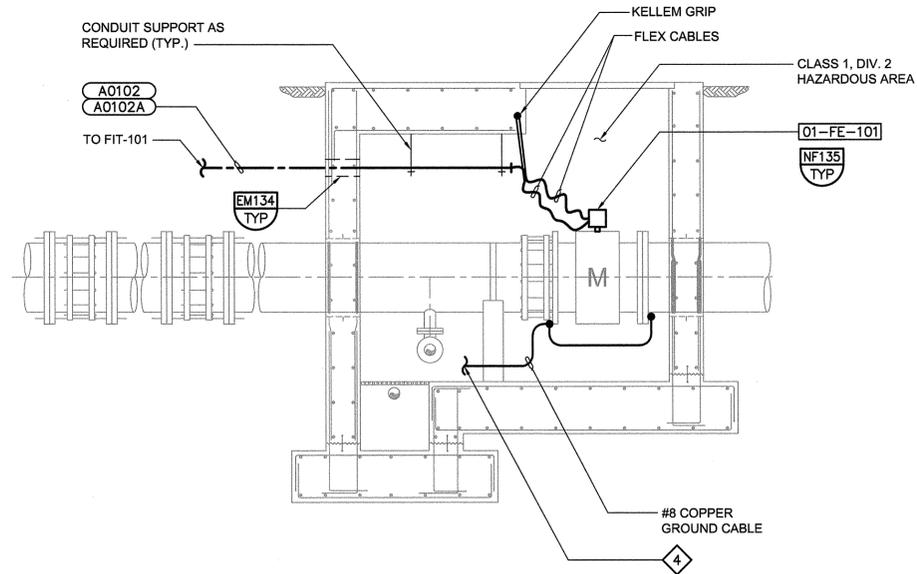
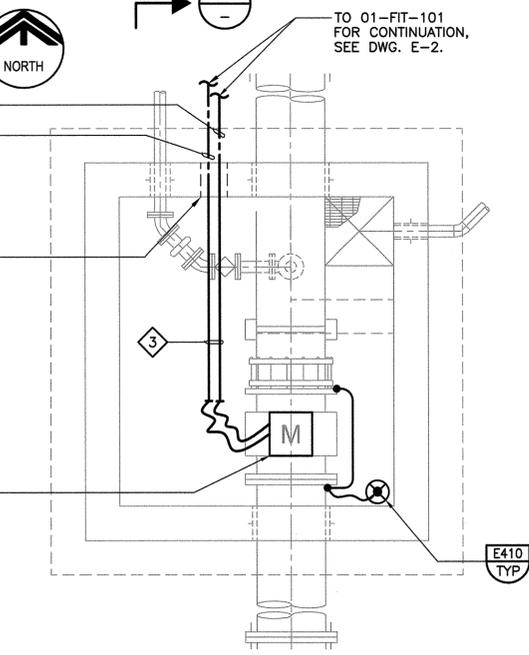
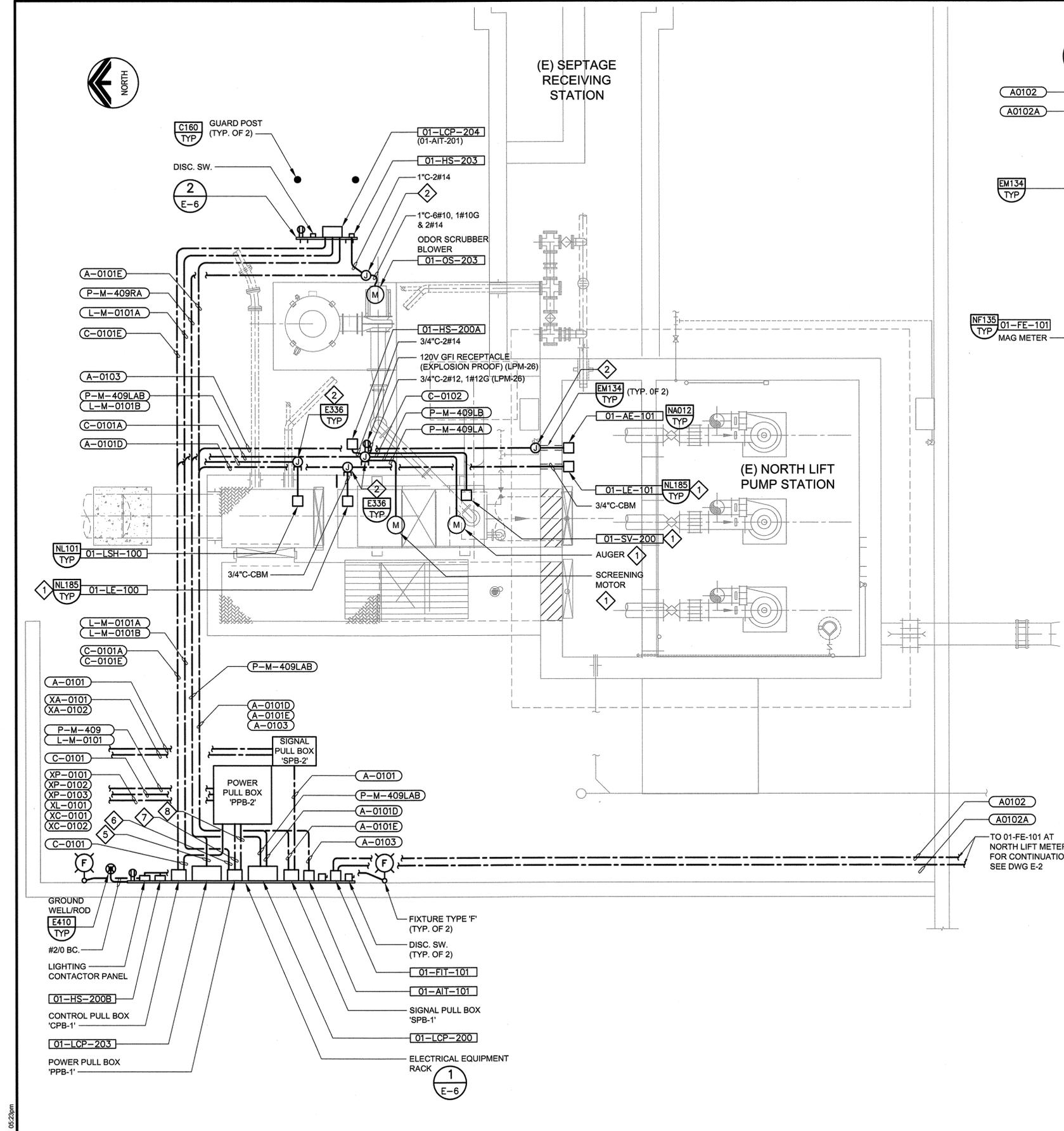
DESIGNED	EC
DRAWN	RAV/JAM
CHECKED	JMU
DATE	OCTOBER 2010



BY	APPD	DESCRIPTION	DATE	REV.

CARSON CITY PUBLIC WORKS  
 NORTH LIFT PUMP STATION IMPROVEMENTS  
 CARSON CITY CIP NO. 5.0609  
 NORTH LIFT PUMP STATION & METER VAULT  
 ELECTRICAL PLANS

DRAWING NO.  
**E-5**  
 SHEET NO.  
 35 OF 55



**A** NORTH LIFT PUMP STATION  
 E-2 SCALE: 1/4"=1'-0"  
 FILE: E-NLPS101

**1** SECTION - BID ALTERNATE "A"  
 SCALE: N.T.S.  
 FILE: -

Last Saved By: T.A.S. 10-06-10 05:23pm



## CONDUIT SCHEDULE

## LIGHTING FIXTURE SCHEDULE

### POWER

REMARKS	SIZE	LENGTH	CABLE		GROUND		FROM	TO	REMARKS	
			CIRCUIT NO	QTY	SIZE	QTY				SIZE
P-M-409	2		MCC-M-409L	6	#10 AWG	2	#10 AWG	(E) MCC-M	POWER PULL BOX 'A' (PPB-A) AT EQUIP. RACK	VIA PPB-1 & PPB-2
P-M-409L	1		M-409L	3	#10 AWG	1	#10 AWG	PPB-A	01-LCP-200	
P-M-409LAB	1 1/2			4	#14 AWG				J-BOX FOR SCREENING MOTORS & 01-SV-200	480V POWER CONTROLS (120V FOR 01-SV-200) & 01-HS-200A
P-M-409LA	1			4	#14 AWG				MOTOR FOR SCREENING COMPACTOR	POWER CONTROLS
P-M-409LB	1			4	#12 AWG				MOTOR FOR WASHER COMPACTOR	POWER CONTROLS
P-M-409R	1		M-409R	3	#10 AWG	1	#10 AWG	PPB-A	01-LCP-203	
P-M-409RA	1		M-409R	2	#14 AWG				01-OS-203 (ODOR SCRUBBER BLOWER)	POWER CONTROLS 01-HS-203
L-M-0101	1		LPM-24	2	#12 AWG	1	#12 AWG	(E) 'LP-M' (AT MCC-M)	PPB-A	VIA PPB-1 & PPB-2 (LPM-24 FOR SITE & BEACON LIGHTS) (LPM-25 FOR FIT-101, AIT-101 & AIT-201) (LPM-26 FOR RECEPTACLES)
L-M-0101A	1		LPM-25	2	#12 AWG				ATI-201 & RECEPTACLE	POWER (AT ODOR SCRUBBER AREA)
L-M-0101B	1		LPM-26	2	#12 AWG	1	#12 AWG	PPB-A	J-BOX AT SCREENING MOTORS AREA	120V (FOR RECEPTACLE)
L-M-0102	3/4		LPM-27	2	#12 AWG	1	#12 AWG	(E) 'LP-M' (AT MCC-M)	PLC-01	CONDUIT ONLY
L-PSB-0801	3/4		LPPSB--	2	#12 AWG	1	#12 AWG	(E) 'LP-PSB' (AT MCC-PSB)	MODBUS+ BRIDGE PANEL	
XL-0101	2								PPB-1	CONDUIT ONLY
XP-0101	2								PPB-1	CONDUIT ONLY
XP-0102	2								PPB-1	CONDUIT ONLY
XP-0103	2								PPB-1	CONDUIT ONLY

### CONTROL

REMARKS	SIZE	LENGTH	CABLE		GROUND		FROM	TO	REMARKS	
			CIRCUIT NO	QTY	SIZE	QTY				SIZE
C-0101	2			26	#14			NEW PLC-01	CONTROL PULL BOX 'A' (CPB-A) AT EQUIP. RACK	VIA PPB-1 & PPB-2 (FOR LSH-100, 01-LCP-200, 01-LCP-203 BEACON/HORN, AIT-201 & 8-SPARES)
C-0101A	1			2	#14	1	#14	CPB-A	LSH-100	
C-0101B	3/4			4	#14			CPB-A	01-LCP-200	
C-0101C	3/4			4	#14			CPB-A	01-LCP-203	
C-0101D	3/4			4	#14			CPA-A	BREAK GLASS & BEACON/HORN RESET PANEL	
C-0101E	1			4	#14			CPB-A	AIT-201	(2#14 SPARES)
C-0102	1			2	#12	1	#12	J-BOX FOR SCREENING MOTORS & 01-SV-200	01-SV-200 (SOLENOID)	120V (POWER FROM 01-LCP-200)
XC-0101	2								PPB-1	J-BOX FOR SCREENING
XC-0102	2								PPB-1	MOTOR & 01-SV-200

### ANALOG

REMARKS	SIZE	LENGTH	CABLE		GROUND		FROM	TO	REMARKS	
			CIRCUIT NO	QTY	SIZE	QTY				SIZE
A-0101	2			7	18 STP			NEW PLC-01	SIGNAL PULL BOX 'A' (SPB-A) AT EQUIP. RACK	VIA SPB-1 & SPB-2 (FOR FIT-101, AIT-101, 01-LCP-200, AIT-201 & SPARE)
A-0101A	1			1	18 STP	1	#14	SPB-A	FIT-101	VIA DISC. SW.
A-0101B	1			1	18 STP	1	#14	SPB-A	AIT-101	VIA DISC. SW.
A-0101C	1			2	18 STP			SPB-A	01-LCP-200 (CONT. PANEL)	
A-0101D	1			2	18 STP			01-LCP-200 (CONT. PANEL)	01-LE-100 & 01-LE-101	AT SCREENING AREA
A-0101E	1			1	18 STP			SPB-A	01-AIT-201	AT ODOR SCRUBBER BLOWER
A-0102	1			1	CBM			01-FIT-101	FE-101 (AT METER VAULT)	VIA J-BOX AT FE-101
A-0102A	1			1	CBM			01-FIT-101	FE-101 (AT METER VAULT)	VIA J-BOX AT FE-101
A-0103	1			1	CBM			01-AIT-101	AE-101 (AT SCREENING AREA)	VIA J-BOX AT AE-101
XA-0101	2								SPB-1	CONDUIT ONLY
XA-0102	2								SPB-1	CONDUIT ONLY

TYPE	LAMP TYPE	INPUT VOLT	INPUT WATT	MTG	MANUFACTURER CATALOG NO.	ALTERNATIVE MANUFACTURER	DESCRIPTION
⊙ F	100 HPS	120	128	POLE	HOLOPHANE CRESTWOOD CW2A-100HO-12-BZ-CA, WITH POLE NO. AZRT10	APPROVED EQUAL	HIGH PRESSURE SODIUM OUTDOOR POLE MOUNTED, ALUMINUM HOUSING AND DIE-FORMED REFLECTOR WITH CLEAR TEMPERED GLASS REFRACTOR, POLE TO BE 10 FEET LONG, 4" ALUMINUM ROUND TAPERED BRONZE TEXTURE FINISH.

### KEY NOTES:

- 1 CONTRACTOR SHALL FIELD VERIFY THE AVAILABLE SPACE IN EXISTING LIGHTING PANEL 'LP-PSB' AND PROVIDE 20A BREAKER TO FEED NEW MODBUS+ BRIDGE PANEL.

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, VERIFY SCALES ACCORDINGLY

DESIGNED EC  
 DRAWN RAV/MM  
 CHECKED JMU  
 DATE OCTOBER 2010

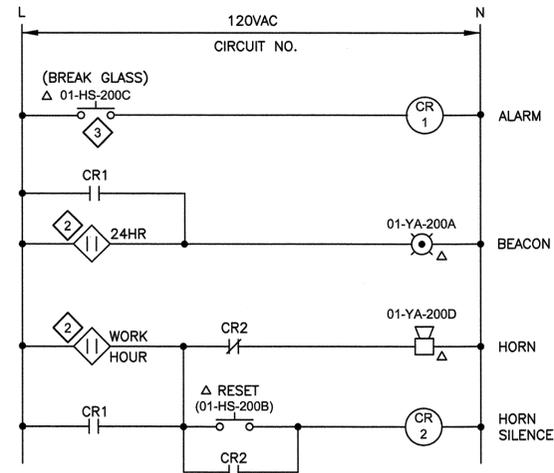
**carollo**



REV	DATE	DESCRIPTION	BY	APPD

**CARSON CITY PUBLIC WORKS**  
**NORTH LIFT PUMP STATION IMPROVEMENTS**  
**CARSON CITY CIP NO. 5.0609**  
 ELECTRICAL  
 CONDUIT AND LIGHTING FIXTURE SCHEDULES

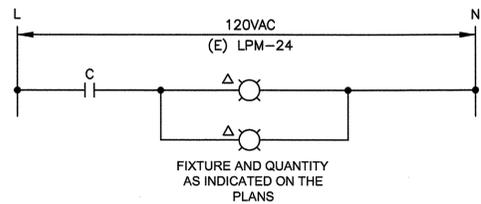
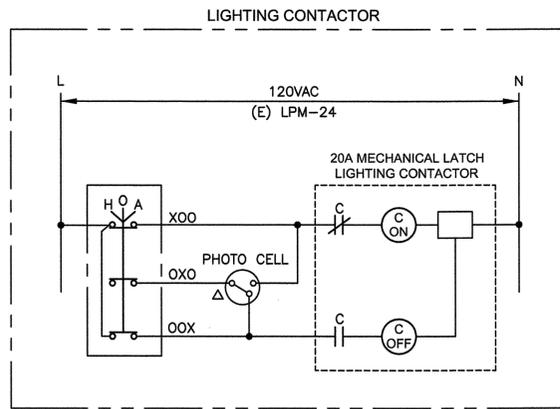
DRAWING NO.  
**E-7**  
 SHEET NO.  
 37 OF 55



- NOTES:
- 1 ALL DEVICES SHALL BE LOCATED AT ALARM RESET PANEL UNLESS NOTED OTHERWISE.
  - 2 PLC-01 CONTACT.
  - 3 LATCH WHEN ACTIVATE.

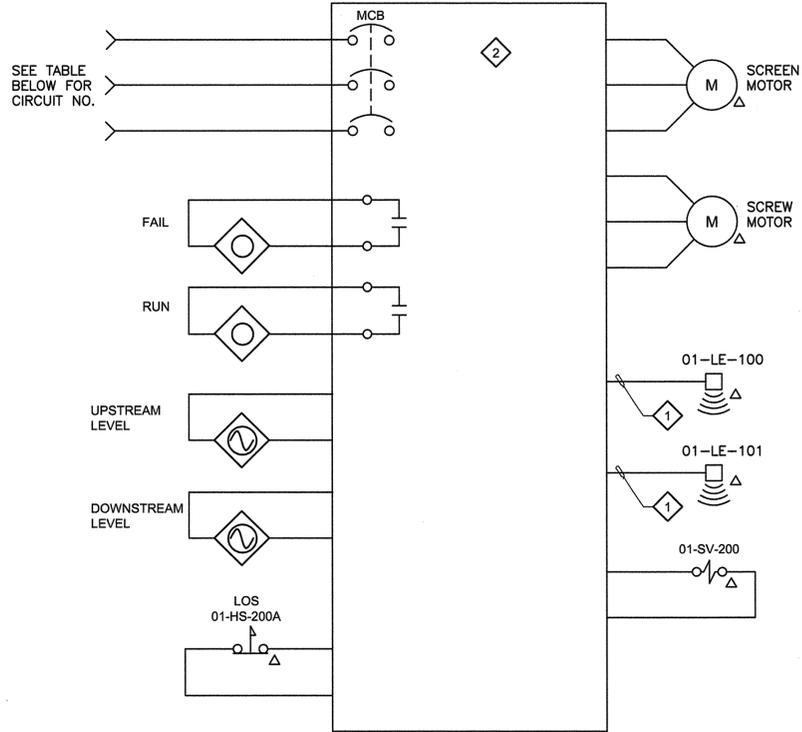
AREA	TAG NO.	CIRCUIT NO.	PLC-01
NORTH LIFT PUMP STATION	-	LPM-24	01

1 **ALARM & BEACON CONTROL SCHEMATIC**



NOTES: ALL DEVICES SHALL BE LOCATED IN LIGHTING CONTACTOR PANEL.

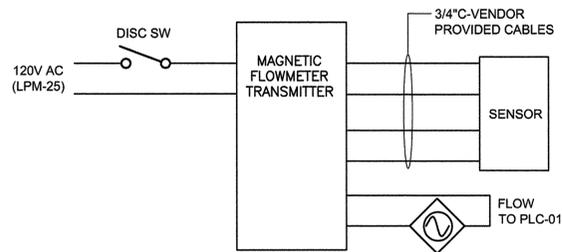
**OUTDOOR/SITE LIGHTING CONTROL**



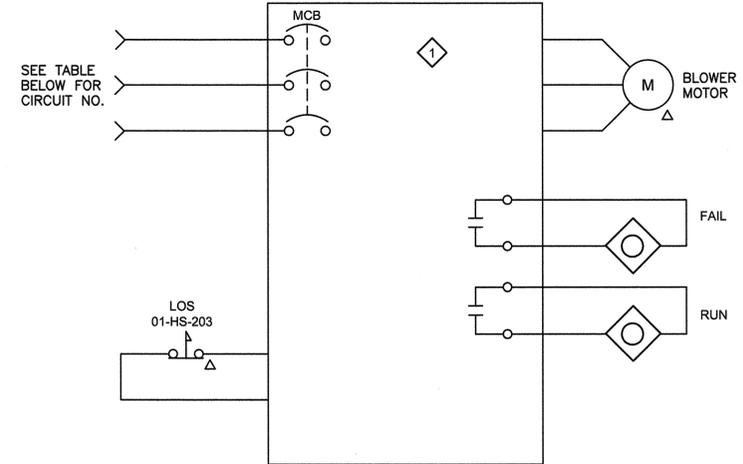
- NOTE:
- 1 INTRINSICALLY SAFE CIRCUIT.
  - 2 VENDOR PROVIDED PANEL

DESCRIPTION	TAG NO.	CIRCUIT NO.	PLC
NORTH LIFT PUMP STATION MECHANICAL SCREEN 01-MS-200	01-LCP-200	M-409L	PLC-01

**MECHANICAL SCREEN SCHEMATIC**



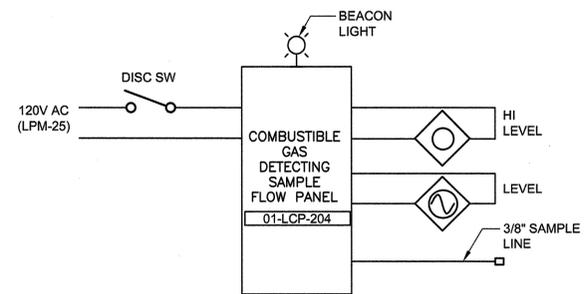
**MAGNETIC FLOWMETER**



NOTE:  
1 VENDOR PROVIDED PANEL

DESCRIPTION	TAG NO.	CIRCUIT NO.	PLC
NORTH LIFT PUMP STATION ODOR CONTROL	01-LCP-203	M-409R	PLC-01

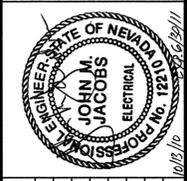
**ODOR SCRUBBER BLOWER**



**GAS DETECTING SYSTEM**

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, VERIFY SCALES ACCORDINGLY

DESIGNED	EC	DRAWN	RAV/JVM	CHECKED	JMJ	DATE
						OCTOBER 2010



BY	APPD	DESCRIPTION	DATE	REV.

CARSON CITY PUBLIC WORKS  
NORTH LIFT PUMP STATION IMPROVEMENTS  
CARSON CITY CIP NO. 5.0609  
ELECTRICAL SCHEMATICS

DRAWING NO. <b>E-8</b>
SHEET NO. 38 OF 55