

Town of Riverhead
Suffolk County, New York

TOWN OF RIVERHEAD
RFP COMPREHENSIVE ENERGY MANAGEMENT SERVICES
ADDENDUM No. 1
July 12, 2018

Addendum No. 1 consists of 48 pages (including this page)
This addendum is hereby made a part of the Contract Documents of the above project for the Town of Riverhead, Suffolk County, New York and shall be bound with the documents titled:

**TOWN OF RIVERHEAD
RFP COMPREHENSIVE ENERGY MANAGEMENT SERVICES**

1. RFP Questions 1 and 2
2. Pre-Bid Mandatory Walk thru Meeting Sign in Sheet
3. Town of Riverhead Facilities Lighting Fixture Count/Spec
4. Town of Riverhead Facilities HVAC Equipment List
5. Town of Riverhead Street Lighting Fixture Count/Spec
6. Town of Riverhead Facilities Electric Bills
7. Town of Riverhead Town Hall Gas Bills
8. Town of Riverhead Town Hall 200 Howell Ave Floorplans
9. Town of Riverhead Police Dept 210 Howell Ave Floorplans
10. Town of Riverhead Building Dept 201 Howell Ave Floorplans
11. Town of Riverhead Senior Center 61 Shade Tree Lane Floorplans
12. Town of Riverhead George Young Community Center 446 South Jamesport Ave Jamesport Floorplans
13. Town of Riverhead Highway Department 1177 Osborn Ave Floorplans
14. Town of Riverhead Municipal Garage
15. Town of Riverhead Town Hall West 1295 Pulaski Street Floorplans

Energy RFP Questions 1 & 2:

Hi,

I have questions regarding the existing fixtures once removed and replaced:

- Is the contractor responsible for disposal off site of removed fixtures, or will the town provide bins/dumpsters to deposit said fixtures?

The successful bidder is to properly and lawfully dispose of all hazardous components. The town will provide dumpsters for all components that do not require "special disposal".

- Is the contractor responsible for disassembling the replaced fixtures and placing components (lamps, tubes, ballasts, housings) in individual bins, or just deposit the removed whole fixtures into dumpsters?

Contractor is to remove all hazardous components from the fixtures and to properly and lawfully dispose of all hazardous components. The contractor is also required to deposit remaining components into town provided dumpsters.

TOWN OF RIVERHEAD
ENERGY PERFORMANCE RFP PRE BID MEETING JULY 10TH 9AM 2018

	NAME	COMPANY	PHONE NO.	FAX NO.	MAILING ADDRESS	EMAIL ADDRESS
1	Tom Sullivan	BE Retrofit	857 404 3589	617 8600 310	James Cummings 300 West 1st St Woburn MA	tom@beretrofit.com
2	Chris Fitzsimmons	SEI	516-650-3908		La Aerialuty Square SALES@RESULO ENDUR.COM	Chris.Fitzsimmons@SEI.com Box 11576 Houma LA 70725
3	Steve Lutzalas	Best LED & RDUWP	631-630-5412	631-630-5414	Kevin-Gmelin@emcenergy.com	300 Newton Rd Plainville MA
4	Karin Gmelin	Welsbach Electric of L.I.	516-563-3983		298 West 34th St Hempstead NY	kgmelin@qiaenergy.com
5	Alan Giannatos	Wende 1	631 513-0796		6000 11th St Spring NY 11761	PRATIK.Thakkar@JCI.com
6	PRATIK THAKKAR	JCI	516-350-7688			
7						
8						
9						
10						
11						
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Town of Riverehad Lighting Fixture Counts

Planning-Building

Office	Fixture Quantity
2x4 Troffer (4-T8)	38
2X2 Troffer (2-T8)	18

Basement	Fixture Quantity
1X4 (2-T8) Wraparound	11

Outdoors	Fixture Quantity
175 watt mh Flood	1

*Rest of the building done

Police - Justice Court

1st Floor	Fixture Quantity
2x4 (4-T8) Troffer	90
2X2 (2-T8) Troffer	73

Basement	Fixture Quantity
2x4 (4-T8) Troffer	40
2X2 (2-T8) Troffer	25

Outdoors	Fixture Quantity
100 Watt MH Area	7
150 Watt MH Area	12
250 Watt HPS Flood	2
400 Watt HPS Flood	4

Town Hall

Basement	Fixture Quantity
2x4 (4-T8) Troffer	13
1X4 (2-T8) Wrap Around	4
2X2 (2-T8) Troffer	11

1st Floor	Fixture Quantity
2x4 (4-T8) Troffer	100
4X4 (8-T8) Troffer	14
1X4 (2-T8) Troffer	9
2X2 (2-T8) Troffer	13
250 watt 8" Wall Wash	14

Outdoor	Fixture Quantity
Wall pack 150 Watt	3
100 Watt MH Area	11
150 Watt MH Area	6

Highway Office/Shop

1st Floor	Fixture Quantity
2x4 TROFFER (4-T8)	4
2X2 TROFFER (2-T8)	1
1X4 (2-T8) Wraparound	1
1X4 (4-T8) Wraparound	10
6" Highhats (100 Watt)	8

Shop Area	Fixture Quantity
2x4 (4-T8) Bay	9
1X8 (2-T12) Low Bay	50
1X8 (4-T12) Low Bay	2
Bulb (100 Watt)	8

2nd Floor	Fixture Quantity
2x4 (4-T8) Wraparound	13
1X4 (2-T8) Wraparound	3
1X8 (2-T12) Wraparound	6

Outdoors	Fixture Quantity
12' Pole 175 Watt MH	4
Streetlight 150 Watt	2
Floodlight (100 Watt)	3

Municipal Garage

	Fixture Quantity
2x4 Troffer (4-T8)	8
1X4 Low Bay (2-T8)	21
1X4 Low Bay (3-T8)	23
1X4 Low Bay (4-T8)	10
1X8 Low Bay (2-T12)	6
175 MH Highbay	33
12' Pole 175 Watt MH	11
Wall Pack 150 Watt	5
Floodlight (100 Watt)	10

Town Hall West

*All FIXTURES ALREADY CONVERTED

LED FIXTURE SPECS:

2X2 TROFFER RAB EZPAN2X2-40N/D10 4000K

2X4 TROFFER RAB EZPAN2X4-40N/D10 4000K

****all others fixtures not specified must be a RAB fixture, if not available as a RAB product provide a spec sheet must be a USA MADE PRODUCT ONLY***

George Young Community Center

Indoor	Fixture Quantity
2x4 Troffer(4-T8)	42
2X2 Troffer (2-T8)	37
1X4 (2-T8) Wraparound	3
1X4 (4-T8) Wraparound	12
Bulbs (100 Watt)	9

Outdoors	Fixture Quantity
Pole 175 Watt MH	4
Wall pack 150 Watt	4
Bulbs (100 Watt)	3

Senior Center

Basement	Fixture Quantity
1X4 (2-T8) Wraparound	7

1st Floor	Fixture Quantity
2x4 (4-T8) Troffer	75
2X2 (2-T8) Troffer	71
1X4 (2-T8) Wraparound	3
6" Highhats (100 Watt)	33

Outdoors	Fixture Quantity
12' Pole 175 Watt MH Area	3
Wall pack 150 Watt	4
6" Highhats (100 Watt)	2

****Fixture Costs used for RFP evaluation purposes only, verified count to be done prior to contract****

LIST OF EQUIPMENT *FOR EVALUATION PURPOSES ONLY MUST BE VERIFIED PRIOR TO CONTRACT*

BUILDING DEPARTMENT (TOWN HALL SOUTH) – 201 HOWELL AVENUE

MAKE	MODEL #	SERIAL #	TONNAGE
BRYANT 10 TON	48TCED12		

**GEORGE YOUNG COMMUNITY CENTER 446 S. Jamesport Avenue
Jamesport, NY**

MAKE	MODEL #	SERIAL #	TONNAGE
CARRIER SPLIT SYSTEM	40RR01601038 AC012430	B895810	10
CARRIER SPLIT SYSTEM	40RR01601038 AC012430	B8958133804G30058	10
CARRIER SPLIT SYSTEM	40RR01601038 AC012430	B8958092503G20068	10

HIGHWAY DEPARTMENT 1177 Osborn Avenue Riverhead, NY

MAKE	MODEL #	SERIAL #	TONNAGE
TRANE PACKAGE HEAT/COOL	YC075C3L0AA/G2114 2528D		7.5
TRANE ROOFTOP	YCD037C317AB	R36101633D	3.5
TRANE ROOFTOP	YCD037C317AB	R36101567D	3.5
MODINE MAKEUP AIR	RMUA400		
BERKO ELECTRIC HEATER	FF3021A		
BERKO ELECTRIC HEATER	MUH524T		
RESNOE NATURAL GAS HEATER (6)	F300		
RESNO NATURAL GAS HEATER (6)	F400		
GREENHECK EXHAUST FANS (2)	SER20F		
GREENHECK EXHAUST FANS (2)	GB215R3		
GREENHECK EXHAUST FANS (3)	G100B		
GREENHECK EXHAUST FAN (1)	G180C		
GREENHECK EXHAUST FANS (2)	GB184R		

GREENHECK EXHAUST FANS (3)	GB254R		
GREENHECK EXHAUST FANS (2)	G80G		
GREENHECK EXHAUST FAN (1)	G120B		
GREENHECK EXHAUST FAN (1)	G170C		
GREENHECK EXHAUST FAN (1)	G85E		

MUNICIPAL GARAGE 1412 Old Country Road Riverhead, NY

MAKE	MODEL #	SERIAL #	TONNAGE
LENNOX CU-1 CONDENSER	HS290369H		
LENNOX AH-1 AIR HANDLER	G4OUH36A070		
LENNOX CU-2 CONDENSER	HS290182P		
LENNOX AH-2 AIR HANDLER	G4OUH24A045		
CARRIER CU-3 CONDENSER	58AD014400		
CARRIER AH-3 AIR HANDLER	40RR016140		
LENNOX AC-1 PACKAGE UNIT	LGA300HH2Y		
REZNOR MAU-1 PACKAGE MAKEUP AIR UNIT	PCDA298500		
MODINE GHU-1 GAS HEATER UNIT	PV2500AE0130		
MODINE GHU-2 GAS HEATER UNIT	PV2500AE0130		
REZNOR UH-1 GAS HEATER UNIT	UDAS75		
REZNOR UH-2 GAS HEATER UNIT	UDAS75		
REZNOR UH-3 UNIT GAS HEATER	FE165S2		
REZNOR UH-4 GAS HEATER UNIT	FE165S2		

POLICE DEPARTMENT

MAKE	MODEL #	SERIAL #	TONNAGE
TRANE ROOFTOP	YCD091D3LABE	R36101743D	7.5
TRANE ROOFTOP	YCD061C3HABF	R36191717D	5.0
TRANE ROOFTOP	YCD121C3LAAA	R36102250D	10.0
TRANE ROOFTOP	YCD091D3LABE	R36101799D	7.5
TRANE ROOFTOP	YCD121C3LAAA	R38103244D	10.0
RUUD ROOFTOP	USKA-A018JK00	5178F349715412	1.5

SENIOR CENTER

MAKE	MODEL #	SERIAL #	TONNAGE
TRANE CONDENSER	TTA072D300AO	2204RJ3LF	6.0
TRANE CONDENSER	TTA150B300DA	2213NS4AD	12.5
TRANE CONDENSER	TTA150B300DA	22056BMAD	12.5
TRANE CONDENSER	TTA060A300AA	2322HE53F	5.0
YORK CONDENSER	L60-10B	CO-013450	5.0
YORK CONDENSER	L60-10B	CO-034231	5.0
YORK CONDENSER	L60-10B	CO-013449	5.0
TRANE ROOFTOP	YCD150D3HAAA	217100934D	12.5
LUXAIRE FURNACE	F020F12501A	EHAP020517	
JACKSON CHURCH FURNACE	DL350HB28LH	758-1510	
WEIL-MCLAIN BOILER	LGB-11-W		
MASTER VENT EXHAUST FAN	AFSN150K2	102D736717	
CENTRI-MASTER EXHAUST FAN	PNU300RG	O2WH75084	

TOWN HALL 200 HOWELL AVE RIVERHEAD NY 11901

MAKE	MODEL #	SERIAL #	TONNAGE
TRANE CU-1 CONDENSER	RAUA-3006-MC		
TRANE AH-1 AIR HANDLER	BRCB-3006-0A		
TRANE CU-2 CONDENSER	TTA120B300EA		
TRANE AH-2 AIR HANDLER	BH01B		
YORK AC-3 PACKAGE UNIT	D1HE060A25BDA		
LIEBERT AC-4A COMPUTER UNIT	DMC-040WGP00		

LIEBERT AC-4B COMPUTER ROOM	DMC-040WGP00		
SLANT FIN B-1 BOILER	GX-300		
SLANT FIN B-2 BOILER	GX-300		
SLANT FIN B-3 BOILER	GX-300		
BARBER COLEMAN	ELECTRONIC CONTROL SYSTEM		
TEMPSTAR (15)	VARIABLE AIR VOLUME UNITS		
B & G P-A HOT WATER CIRCULATOR	6015T		
B & G P-2 HOT WATER CIRCULATOR	6015T		
B & G P-3 HOT WATER CIRCULATOR	6015T		
B & G P-4 HOT WATER CIRCULATOR	6011S		

TOWN HALL WEST 1295 PULASKI STREET RIVERHEAD NY 11901

MAKE	MODEL #	SERIAL #	TONNAGE
LENNOX PACKAGE	GCS16-060-120-1Y	5698K06414	5.0
LENNOX PACKAGE	GCS16-024-50-1P	5698K04634	2.0
LENNOX PACKAGE	GCS16-036-90-2Y	5698K04480	3.0
LENNOX SPLIT SYS	HS290030-1P C329M-41-1P	5898G67213 5800D34507	2.5
SAMSUNG SPLIT SYS	UQ24A2RC 1AQ24A2RC1KCV	ABQDP5AY300027K P2FR500113F	2.0
CARRIER	FAN COILS (3)		
MODINE	FAN COILS (2)		
ICP HEATER	T9MPD050F12G1	A061758189	

Town of Riverhead Street Lighting Fixture Counts

CURRENT BILLING

Quantity	Fixture Wattage	Ballast Wattage
68		52
503		70
7		70
27		70
252		70
1		100
28		117
113		100
773		100
13		100
812		150
4		150
18		150
6		149
767		175
6		184
30		215
1		250
7		400
2		400
4		400
11		400
13		400
4		1000
6		1000
2		80

3478 Lights Need to Be Converted

Already Converted Street Lights to LED

Quantity	Fixture Wattage	Ballast Wattage
479		43
526		82
2		49
1007 Previously Converted Street Lights		

Proposed Converted Street Light Count

Quantity	Fixture Wattage
	1787
	1644
	37
	10
	479
	526
	2

LED STREET LIGHT FIXTURE SPECS:

43 WATT = GE ERL1004B340AGRAY

82 WATT= GE ERS20DXBX5405GRAY

(WITH 10 YEAR WARRANTY)

*OTHER WATTAGE NOT SPECIFIED MUST USA MADE AND CARRY 10 YEAR WARRANTY

Fixture Costs used for RFP evaluation purposes only, verified count to be done prior to contract

ACCOUNT NAME: TOWN OF RIVERHEAD

Year	DATE	RD	SERVICE ADDRESS						
			SERVICE TOWN						
			ELECTRIC RATE						
			1580						
			Metrics	#DA	\$AMOUNT	CONSUMPT	Total KW	Daily Average KWH	BIL DEM
2018	1/31/2018	S	31	\$38,400.33	258,312	0.0	8,332.64	0.0	
	Total		31	\$38,400.33	258,312	--	8,332.64	0.0	
2017	12/31/2017	S	31	\$39,576.74	264,175	0.0	8,521.77	0.0	
	11/30/2017	S	30	\$37,770.38	244,675	0.0	8,155.83	0.0	
	10/31/2017	S	31	\$35,298.62	231,105	0.0	7,455.00	0.0	
	9/30/2017	S	30	\$30,699.43	199,154	0.0	6,638.46	0.0	
	8/31/2017	S	31	\$27,453.76	182,617	0.0	5,890.87	0.0	
	7/31/2017	S	31	\$24,951.60	164,303	0.0	5,300.09	0.0	
	6/30/2017	S	30	\$23,735.36	154,816	0.0	5,160.53	0.0	
	5/31/2017	S	31	\$26,691.65	170,229	0.0	5,491.25	0.0	
	4/30/2017	S	30	\$25,674.06	185,584	0.0	6,186.13	0.0	
	3/31/2017	S	31	\$29,995.34	216,349	0.0	6,979.00	0.0	
	2/28/2017	S	28	\$30,125.72	216,940	0.0	7,747.85	0.0	
	1/31/2017	S	31	\$40,092.36	258,312	0.0	8,332.64	0.0	
	Total		365	\$372,065.02	2,488,259	--	81,859.42	0.0	
	2016	12/31/2016	S	31	\$38,344.85	264,175	0.0	8,521.77	0.0
		11/30/2016	S	30	\$37,224.16	244,675	0.0	8,155.83	0.0
10/31/2016		S	31	\$35,664.75	231,105	0.0	7,455.00	0.0	
9/30/2016		S	30	\$30,740.97	199,154	0.0	6,638.46	0.0	
8/31/2016		S	31	\$28,208.52	182,617	0.0	5,890.87	0.0	
7/31/2016		S	31	\$23,173.95	164,303	0.0	5,300.09	0.0	
6/30/2016		S	30	\$21,704.78	154,816	0.0	5,160.53	0.0	
5/31/2016		S	31	\$22,617.80	170,229	0.0	5,491.25	0.0	
4/30/2016		S	30	\$24,588.40	185,584	0.0	6,186.13	0.0	
3/31/2016		S	31	\$28,516.32	216,349	0.0	6,979.00	0.0	
2/29/2016		S	29	\$29,904.40	224,054	0.0	7,726.00	0.0	
1/31/2016		S	31	\$31,747.95	258,312	0.0	8,332.64	0.0	
Total			366	\$352,436.85	2,495,373	--	81,837.57	0.0	

ACCOUNT NAME: TOWN OF RIVERHEAD

Year	DATE	RD	SERVICE ADDRESS						
			SERVICE TOWN	STREET LIGHT					
			ELECTRIC RATE	1285					
			Metrics					Daily Average KWH	
			#DA	\$AMOUNT	CONSUMPT	Total KW		BIL DEM	
2018	1/31/2018	S		31	\$823.96	0	0.0	0.00	0.0
	Total			31	\$823.96	0	--	0.00	0.0
	12/31/2017	S		31	\$824.48	0	0.0	0.00	0.0
	11/30/2017	S		30	\$824.11	0	0.0	0.00	0.0
	10/31/2017	S		31	\$824.11	0	0.0	0.00	0.0
	9/30/2017	S		30	\$824.11	0	0.0	0.00	0.0

2017	8/31/2017	S	31	\$824.11	0	0.0	0.00	0.0
	7/31/2017	S	31	\$824.11	0	0.0	0.00	0.0
	6/30/2017	S	30	\$824.11	0	0.0	0.00	0.0
	5/31/2017	S	31	\$824.11	0	0.0	0.00	0.0
	4/30/2017	S	30	\$824.11	0	0.0	0.00	0.0
	3/31/2017	S	31	\$824.48	0	0.0	0.00	0.0
	2/28/2017	S	28	\$824.48	0	0.0	0.00	0.0
	1/31/2017	S	31	\$824.48	0	0.0	0.00	0.0
	Total		365	\$9,890.80	0	--	0.00	0.0
2016	12/31/2016	S	31	\$824.48	0	0.0	0.00	0.0
	11/30/2016	S	30	\$824.48	0	0.0	0.00	0.0
	10/31/2016	S	31	\$824.48	0	0.0	0.00	0.0
	9/30/2016	S	30	\$824.48	0	0.0	0.00	0.0
	8/31/2016	S	31	\$824.48	0	0.0	0.00	0.0
	7/31/2016	S	31	\$824.48	0	0.0	0.00	0.0
	6/30/2016	S	30	\$824.48	0	0.0	0.00	0.0
	5/31/2016	S	31	\$824.48	0	0.0	0.00	0.0
	4/30/2016	S	30	\$824.48	0	0.0	0.00	0.0
	3/31/2016	S	31	\$825.79	0	0.0	0.00	0.0
	2/29/2016	S	29	\$825.79	0	0.0	0.00	0.0
	1/31/2016	S	31	\$825.79	0	0.0	0.00	0.0
	Total		366	\$9,897.69	0	--	0.00	0.0

ACCOUNT NAME: TOWN OF RIVERHEAD

Year	DATE	RD	SERVICE ADDRESS	1295 PULASKI ST					
			SERVICE TOWN	RIVERHEAD NY					
			ELECTRIC RATE	281					
			Metrics	#DA	\$AMOUNT	CONSUMPT	Total KW	Daily Average KWH	BIL DEM
2018	1/26/2018	A		35	\$3,351.72	21,280	47.0	608.00	47.0
	Total			35	\$3,351.72	21,280	--	608.00	47.0
2017	12/22/2017	A		32	\$2,447.96	14,880	37.5	465.00	37.5
	11/20/2017	A		28	\$1,921.73	10,880	39.0	388.57	39.0
	10/23/2017	A		31	\$2,016.01	11,200	35.0	361.29	35.0
	9/22/2017	A		30	\$2,046.29	10,240	36.0	341.33	36.0
	8/23/2017	A		27	\$1,949.08	10,240	35.0	379.25	35.0
	7/27/2017	A		31	\$2,387.54	12,160	40.0	392.25	40.0
	6/26/2017	A		35	\$2,513.56	13,040	37.5	372.57	37.5
	5/22/2017	A		30	\$2,084.31	11,680	42.5	389.33	42.5
	4/22/2017	A		25	\$1,726.73	10,960	41.0	438.40	41.0
	3/28/2017	A		35	\$2,753.13	18,080	42.5	516.57	42.5
	2/21/2017	A		25	\$2,065.19	13,600	41.0	544.00	41.0
	1/27/2017	A		37	\$3,293.55	19,760	44.0	534.05	44.0
	Total			366	\$27,205.08	156,720	--	5,122.61	44.0
2016	12/21/2016	A		23	\$1,871.31	11,520	41.0	500.86	41.0
	11/28/2016	A		35	\$2,439.47	14,080	36.0	402.28	36.0
	10/24/2016	A		27	\$1,809.50	10,000	36.0	370.37	36.0
	9/27/2016	A		35	\$2,535.44	12,800	35.0	365.71	35.0
	8/23/2016	A		26	\$2,003.12	10,480	38.5	403.07	38.5
	7/28/2016	A		35	\$2,521.71	14,240	37.0	406.85	37.0
	6/23/2016	A		30	\$2,038.73	11,920	37.0	397.33	37.0

5/24/2016	A		29	\$1,637.55	10,960	34.5	377.93	34.5
4/25/2016	A		33	\$1,934.06	12,880	37.0	390.30	37.0
3/23/2016	A		30	\$2,030.06	14,000	40.0	466.66	40.0
2/22/2016	A		28	\$2,171.79	15,840	43.0	565.71	43.0
1/25/2016	A		35	\$2,389.85	16,880	41.5	482.28	41.5
Total			366	\$25,382.59	155,600	--	5,129.35	43.0

ACCOUNT NAME: TOWN OF RIVERHEAD

Year	DATE	RD	SERVICE ADDRESS	200 HOWELL AV					
			SERVICE TOWN	RIVERHEAD NY					
			ELECTRIC RATE	281					
			Metrics	#DA	\$AMOUNT	CONSUMPT	Total KW	Daily Average KWH	BIL DEM
2018	1/16/2018	A		34	\$3,487.80	20,520	52.0	603.52	61.5
	Total			34	\$3,487.80	20,520	--	603.52	61.5
2017	12/13/2017	A		29	\$3,062.72	17,640	47.0	608.27	61.5
	11/14/2017	A		29	\$3,884.57	21,780	83.0	751.03	83.0
	10/16/2017	A		27	\$4,229.48	23,760	81.0	880.00	81.0
	9/19/2017	A		33	\$5,886.32	31,140	86.5	943.63	86.5
	8/17/2017	A		30	\$5,500.60	29,880	84.5	996.00	84.5
	7/18/2017	A		35	\$6,591.26	35,280	88.0	1,008.00	88.0
	6/13/2017	A		29	\$4,566.99	24,840	84.5	856.55	84.5
	5/15/2017	A		32	\$4,171.43	25,020	77.5	781.87	77.5
	4/13/2017	A		23	\$2,543.97	16,740	50.5	727.82	61.5
	3/21/2017	A		35	\$3,543.28	22,500	50.5	642.85	61.5
	2/14/2017	E		27	\$2,949.78	18,000	0.0	666.66	61.5
	1/18/2017	A		34	\$3,826.96	22,680	54.0	667.05	61.5
	Total			363	\$50,757.36	289,260	--	9,529.73	88.0
2016	12/15/2016	A		30	\$3,371.60	19,980	48.5	666.00	61.5
	11/15/2016	A		32	\$3,925.14	23,040	52.0	720.00	61.5
	10/14/2016	A		29	\$4,951.19	27,360	79.0	943.44	79.0
	9/15/2016	A		29	\$6,063.46	33,300	81.0	1,148.27	81.0
	8/17/2016	A		33	\$7,063.17	40,860	88.0	1,238.18	88.0
	7/15/2016	A		31	\$5,943.74	35,820	83.0	1,155.48	83.0
	6/14/2016	A		29	\$4,621.56	30,060	79.0	1,036.55	79.0
	5/16/2016	A		32	\$3,942.09	27,360	72.0	855.00	72.0
	4/14/2016	A		31	\$3,362.26	23,220	65.0	749.03	65.0
	3/14/2016	A		26	\$2,999.63	20,700	72.0	796.15	72.0
	2/17/2016	A		34	\$3,179.55	22,860	61.0	672.35	61.0
	1/14/2016	A		29	\$3,201.42	21,420	63.0	738.62	63.0
	Total			365	\$52,624.81	325,980	--	10,719.07	88.0

ACCOUNT NAME: TOWN OF RIVERHEAD

Year	DATE	RD	SERVICE ADDRESS	210 HOWELL AV					
			SERVICE TOWN	RIVERHEAD NY					
			ELECTRIC RATE	281					

			Metrics	#DA	\$AMOUNT	CONSUMPT	Total KW	Daily Average KWH	BIL DEM
2018	1/29/2018	S		13	\$1,756.63	11,640	57.5	895.38	61.0
	1/16/2018	A		34	\$4,789.98	31,440	61.0	924.70	61.0
	Total			47	\$6,546.61	43,080	--	1,820.08	61.0
2017	12/13/2017	A		29	\$4,267.32	27,240	61.0	939.31	61.0
	11/14/2017	A		29	\$4,331.69	26,640	69.5	918.62	69.5
	10/16/2017	A		27	\$4,880.37	28,440	83.0	1,053.33	83.0
	9/19/2017	A		35	\$7,347.39	40,800	86.5	1,165.71	86.5
	8/15/2017	A		28	\$6,152.20	35,040	85.0	1,251.42	85.0
	7/18/2017	A		35	\$7,593.86	42,480	86.5	1,213.71	86.5
	6/13/2017	A		29	\$5,343.46	30,240	87.5	1,042.75	87.5
	5/15/2017	A		32	\$4,621.08	28,800	77.0	900.00	77.0
	4/13/2017	A		23	\$3,064.41	21,240	60.0	923.47	63.0
	3/21/2017	A		35	\$4,958.02	34,320	67.0	980.57	67.0
	2/14/2017	A		27	\$3,974.90	26,160	65.0	968.88	65.0
	1/18/2017	A		34	\$5,275.81	33,600	66.0	988.23	66.0
	Total			363	\$61,810.51	375,000	--	12,346.00	87.5
2016	12/15/2016	A		30	\$4,529.99	28,680	65.0	956.00	65.0
	11/15/2016	A		32	\$5,051.41	30,480	72.0	952.50	72.0
	10/14/2016	A		29	\$5,462.23	30,720	81.5	1,059.31	81.5
	9/15/2016	A		29	\$6,764.60	38,040	80.5	1,311.72	80.5
	8/17/2016	A		33	\$7,825.60	46,320	87.5	1,403.63	87.5
	7/15/2016	A		31	\$6,397.77	38,520	90.0	1,242.58	90.0
	6/14/2016	A		29	\$4,734.22	30,600	83.0	1,055.17	83.0
	5/16/2016	A		32	\$4,239.87	30,360	66.0	948.75	69.5
	4/14/2016	A		31	\$4,259.79	30,960	66.0	998.70	69.5
	3/14/2016	S		26	\$3,606.69	26,520	60.0	1,020.00	69.5
	2/17/2016	A		34	\$4,431.17	33,960	63.5	998.82	69.5
	1/14/2016	A		29	\$4,123.87	29,280	62.5	1,009.65	69.5
	Total			365	\$61,427.21	394,440	--	12,956.83	90.0

ACCOUNT NAME: RHD TWN BUILDING DEP

Year	DATE	RD	SERVICE ADDRESS	201 HOWELL AV					
			SERVICE TOWN	RIVERHEAD NY					
			ELECTRIC RATE	281					
			Metrics	#DA	\$AMOUNT	CONSUMPT	Total KW	Daily Average KWH	BIL DEM
2018	1/29/2018	S		13	\$212.03	860	8.0	66.15	11.0
	1/16/2018	A		34	\$530.30	2,080	8.5	61.17	11.0
	Total			47	\$742.33	2,940	--	127.32	11.0
2017	12/13/2017	A		29	\$466.53	1,860	8.5	64.13	11.0
	11/14/2017	A		29	\$510.40	1,960	13.0	67.58	13.0
	10/16/2017	A		27	\$553.22	2,180	13.5	80.74	13.5
	9/19/2017	A		35	\$861.62	3,260	15.5	93.14	15.5
	8/15/2017	A		28	\$783.62	3,200	16.0	114.28	16.0
	7/18/2017	A		35	\$884.02	3,460	15.0	98.85	15.0
	6/13/2017	A		29	\$577.27	2,080	14.5	71.72	14.5

	5/15/2017	A		32	\$585.36	2,100	16.0	65.62	16.0
	4/13/2017	A		23	\$375.20	1,520	13.0	66.08	13.0
	3/21/2017	A		35	\$533.82	2,140	8.5	61.14	12.0
	2/14/2017	A		27	\$432.59	1,700	8.0	62.96	12.0
	1/18/2017	A		34	\$548.50	2,120	9.5	62.35	12.0
	Total			363	\$7,112.15	27,580	--	908.59	16.0
2016	12/15/2016	A		30	\$496.83	2,000	12.0	66.66	12.0
	11/15/2016	A		32	\$598.91	2,240	15.0	70.00	15.0
	10/14/2016	A		29	\$707.60	2,880	15.0	99.31	15.0
	9/15/2016	A		29	\$872.55	3,580	17.0	123.44	17.0
	8/17/2016	A		33	\$940.63	4,040	17.0	122.42	17.0
	7/15/2016	A		31	\$795.97	3,400	17.0	109.67	17.0
	6/14/2016	A		29	\$599.24	2,740	14.5	94.48	14.5
	5/16/2016	A		32	\$504.93	2,060	15.0	64.37	15.0
	4/14/2016	A		31	\$460.79	2,040	12.5	65.80	12.5
	3/14/2016	A		26	\$387.17	1,800	12.0	69.23	12.0
	2/17/2016	A		34	\$458.25	2,220	8.5	65.29	11.0
	1/14/2016	A		29	\$419.22	1,960	8.5	67.58	11.0
	Total			365	\$7,242.09	30,960	--	1,018.25	17.0

ACCOUNT NAME: RIVERHEAD HUMAN RES

Year	DATE	RD	SERVICE ADDRESS	61 SHADE TREE LA					
			SERVICE TOWN	AQUEBOGUE NY					
			ELECTRIC RATE	285					
			Metrics						
				#DA	\$AMOUNT	CONSUMPT	Total KW	Daily Average KWH	BIL DEM
2018	1/9/2018	S		34	\$3,082.68	16,920	44.9	497.64	44.9
	Total			34	\$3,082.68	16,920	--	497.64	44.9
2017	12/6/2017	S		30	\$2,846.58	14,760	56.2	492.00	56.2
	11/6/2017	S		32	\$3,425.01	18,120	64.2	566.25	64.2
	10/5/2017	S		22	\$3,433.16	12,720	67.3	578.18	67.3
	9/13/2017	S		37	\$6,711.44	22,920	78.4	619.45	78.4
	8/7/2017	S		19	\$3,625.22	13,440	78.2	707.36	78.2
	7/19/2017	MS		30	\$5,946.35	21,720	74.3	724.00	74.3
	6/19/2017	S		12	\$2,003.01	7,680	64.9	640.00	64.9
	6/7/2017	S		30	\$3,674.34	17,280	68.0	576.00	68.0
	5/8/2017	S		32	\$2,947.73	15,960	64.0	498.75	64.0
	4/6/2017	S		31	\$2,547.40	14,640	46.0	472.25	46.0
	3/6/2017	S		28	\$2,482.30	14,160	56.0	505.71	56.0
	2/6/2017	S		31	\$2,876.26	15,480	45.7	499.35	45.7
	1/6/2017	S		32	\$2,797.73	15,840	44.3	495.00	44.3
	Total			366	\$45,316.53	204,720	--	7,374.30	78.4
2016	12/5/2016	S		28	\$2,505.85	13,560	53.3	484.28	53.3
	11/7/2016	S		31	\$2,849.46	14,760	62.4	476.12	62.4
	10/7/2016	S		30	\$4,465.81	16,800	71.2	560.00	71.2
	9/7/2016	S		33	\$5,778.63	21,600	78.4	654.54	78.4
	8/5/2016	S		28	\$4,985.80	19,680	87.0	702.85	87.0
	7/8/2016	S		30	\$5,159.61	20,280	78.0	676.00	78.0
	6/8/2016	S		34	\$3,527.88	19,800	71.6	582.35	71.6
	5/5/2016	S		30	\$2,477.16	15,480	57.0	516.00	57.0

4/5/2016	S		32	\$2,620.37	16,440	57.6	513.75	57.6
3/4/2016	S		30	\$2,397.15	15,240	44.9	508.00	44.9
2/3/2016	S		27	\$2,027.85	13,920	42.4	515.55	42.4
1/7/2016	S		34	\$2,875.59	15,960	50.2	469.41	50.2
Total			367	\$41,671.16	203,520	--	6,658.85	87.0

ACCOUNT NAME: RIVERHEAD TOWN MUNICIPAL GARAGE

Year	DATE	RD	SERVICE ADDRESS	1412 Old County Road					
			SERVICE TOWN	RIVERHEAD NY					
			ELECTRIC RATE	281					
			Metrics	#DA	\$AMOUNT	CONSUMPT	Total KW	Daily Average KWH	BIL DEM
2018	1/2/2018	A		32	\$2,531.27	13,980	41.5	436.87	53.0
	Total			32	\$2,531.27	13,980	--	436.87	53.0
2017	12/1/2017	A		30	\$2,344.62	12,420	36.5	414.00	53.0
	11/1/2017	A		30	\$2,395.30	12,960	51.0	432.00	53.0
	10/2/2017	A		31	\$3,437.34	15,900	74.0	512.90	74.0
	9/1/2017	A		31	\$3,857.32	19,020	75.0	613.54	75.0
	8/1/2017	A		27	\$3,634.74	18,300	75.5	677.77	75.5
	7/5/2017	A		34	\$4,100.87	19,800	73.0	582.35	73.0
	6/1/2017	A		31	\$2,848.41	13,740	72.5	443.22	72.5
	5/1/2017	A		28	\$2,044.41	11,880	37.0	424.28	53.0
	4/3/2017	A		33	\$2,523.29	15,060	40.0	456.36	53.0
	3/1/2017	A		34	\$2,678.09	15,840	43.0	465.88	53.0
	1/26/2017	S		23	\$1,956.53	10,680	38.0	464.34	53.0
	1/3/2017	S		33	\$2,243.91	11,700	33.0	354.54	53.0
	Total			365	\$34,064.83	177,300	--	5,841.18	75.5
2016	12/1/2016	S		29	\$1,873.02	9,060	51.5	312.41	53.0
	11/2/2016	E		29	\$1,917.71	9,240	0.0	318.62	53.0
	10/4/2016	A		28	\$2,733.97	11,880	73.0	424.28	73.0
	9/6/2016	A		36	\$4,314.15	20,700	76.0	575.00	76.0
	8/1/2016	A		31	\$3,840.51	20,640	76.0	665.80	76.0
	7/1/2016	A		30	\$2,619.30	12,360	71.5	412.00	71.5
	6/1/2016	A		30	\$2,000.04	10,320	69.5	344.00	69.5
	5/2/2016	A		31	\$1,759.92	10,080	33.0	325.16	50.5
	4/1/2016	A		31	\$1,792.77	10,440	32.5	336.77	50.5
	3/1/2016	A		29	\$1,851.43	11,640	35.5	401.37	50.5
	2/1/2016	A		26	\$1,571.06	10,620	38.5	408.46	50.5
	1/6/2016	A		36	\$2,227.84	12,060	33.0	335.00	50.5
	Total			366	\$28,501.72	149,040	--	4,858.87	76.0

ACCOUNT NAME: TOWN OF RIVERHEAD HIGHWAY DEPT

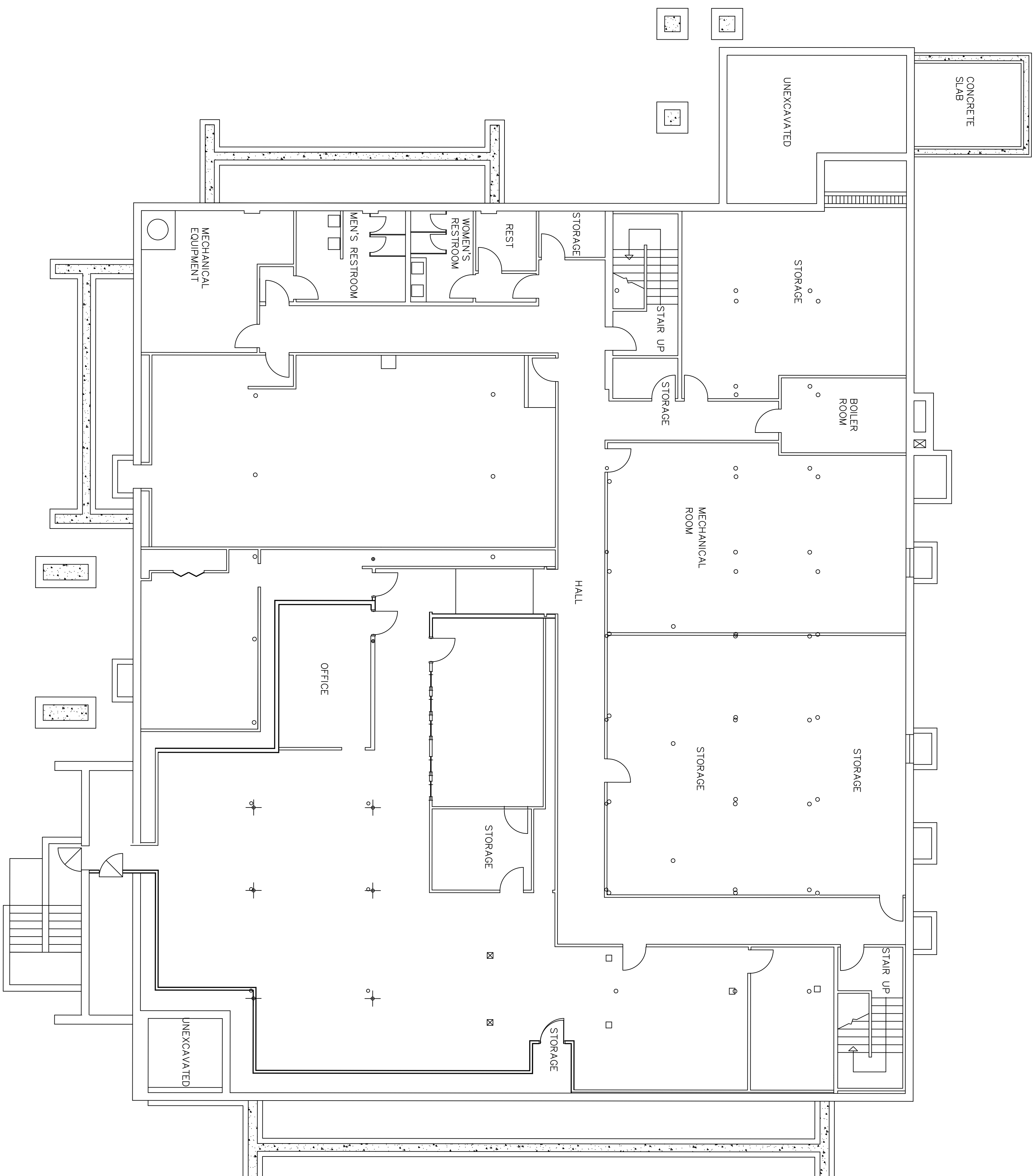
Year	DATE	RD	SERVICE ADDRESS	1177 OSBORNE AV					
			SERVICE TOWN	RIVERHEAD NY					
			ELECTRIC RATE	281					

			Metrics	#DA	\$AMOUNT	CONSUMPT	Total KW	Daily Average KWH	BIL DEM
2018	1/10/2018	S		7	\$514.32	3,240	37.0	462.85	37.0
	1/3/2018	A		34	\$2,318.24	13,800	37.0	405.88	37.0
	Total			41	\$2,832.56	17,040	--	868.73	37.0
2017	11/30/2017	A		28	\$1,359.88	7,320	30.0	261.42	30.0
	11/2/2017	A		30	\$1,134.69	6,120	23.0	204.00	23.0
	10/3/2017	A		28	\$1,381.56	6,600	29.0	235.71	29.0
	9/5/2017	A		33	\$1,777.90	8,880	29.0	269.09	29.0
	8/3/2017	A		28	\$1,718.66	8,640	32.5	308.57	32.5
	7/6/2017	A		34	\$1,914.47	9,360	31.0	275.29	31.0
	6/2/2017	A		29	\$1,227.82	6,240	26.5	215.17	27.5
	5/4/2017	A		31	\$1,415.26	8,400	29.0	270.96	29.0
	4/3/2017	A		32	\$1,798.70	11,400	32.5	356.25	32.5
	3/2/2017	A		28	\$1,627.38	10,320	33.5	368.57	33.5
	2/2/2017	A		23	\$1,591.19	9,360	35.0	406.95	35.0
	1/10/2017	A		39	\$2,135.59	11,640	37.0	298.46	37.0
	Total			363	\$19,083.10	104,280	--	3,470.44	37.0
2016	12/2/2016	A		30	\$1,244.80	6,360	29.0	212.00	29.0
	11/2/2016	A		30	\$1,180.75	6,360	17.0	212.00	22.5
	10/3/2016	A		31	\$1,518.68	7,080	29.0	228.38	29.0
	9/2/2016	A		32	\$2,133.10	11,040	32.5	345.00	32.5
	8/1/2016	A		26	\$1,493.03	8,280	30.0	318.46	30.0
	7/6/2016	A		29	\$1,447.74	7,920	27.5	273.10	27.5
	6/7/2016	A		35	\$1,517.25	9,240	29.0	264.00	29.0
	5/3/2016	A		33	\$1,370.19	8,520	30.0	258.18	30.0
	3/31/2016	A		28	\$1,283.77	8,040	33.5	287.14	33.5
	3/3/2016	A		31	\$1,724.16	11,880	33.5	383.22	33.5
	2/1/2016	A		27	\$1,426.80	10,320	37.0	382.22	37.0
	1/5/2016	A		34	\$1,628.12	9,480	30.0	278.82	30.0
	Total			366	\$17,968.39	104,520	--	3,442.52	37.0

RIVERHEAD TOWN HALL NATIONAL GRID BILLS LAST TWO YEARS

AccountNumber (All)

Row Labels	Sum of TotalTherms	Sum of TotalCharges
2/9/2018	1,064	\$ 1,147.54
1/11/2018	1,524	\$ 1,350.43
12/11/2017	1,010	\$ 939.19
11/8/2017	504	\$ 613.97
10/10/2017	401	\$ 480.07
9/11/2017	441	\$ 477.05
8/9/2017	325	\$ 388.56
7/12/2017	361	\$ 464.73
6/13/2017	582	\$ 640.78
5/10/2017	571	\$ 645.92
4/11/2017	1,208	\$ 1,068.22
3/10/2017	1,152	\$ 1,223.92
2/8/2017	1,222	\$ 1,286.46
1/10/2017	1,408	\$ 1,260.58
12/9/2016	878	\$ 744.45
11/8/2016	526	\$ 443.72
10/11/2016	519	\$ 448.87
9/9/2016	397	\$ 360.89
8/11/2016	452	\$ 427.65
7/12/2016	477	\$ 440.89
6/10/2016	528	\$ 476.30
5/11/2016	503	\$ 452.55
4/12/2016	1,137	\$ 912.34
3/10/2016	1,245	\$ 985.60
Grand Total	18,435	\$ 17,680.68



FIRST FLOOR PLAN

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



TOWN OF RIVERHEAD

200 HOWELL AVENUE

Riverhead, New York 11901

REVISIONS

no.	date	description
1		

DATE: 4/19/2011

SCALE: AS SHOWN

DESIGN BY: R.J.H.

DRAWN BY: R.J.H.

PROJECT TITLE

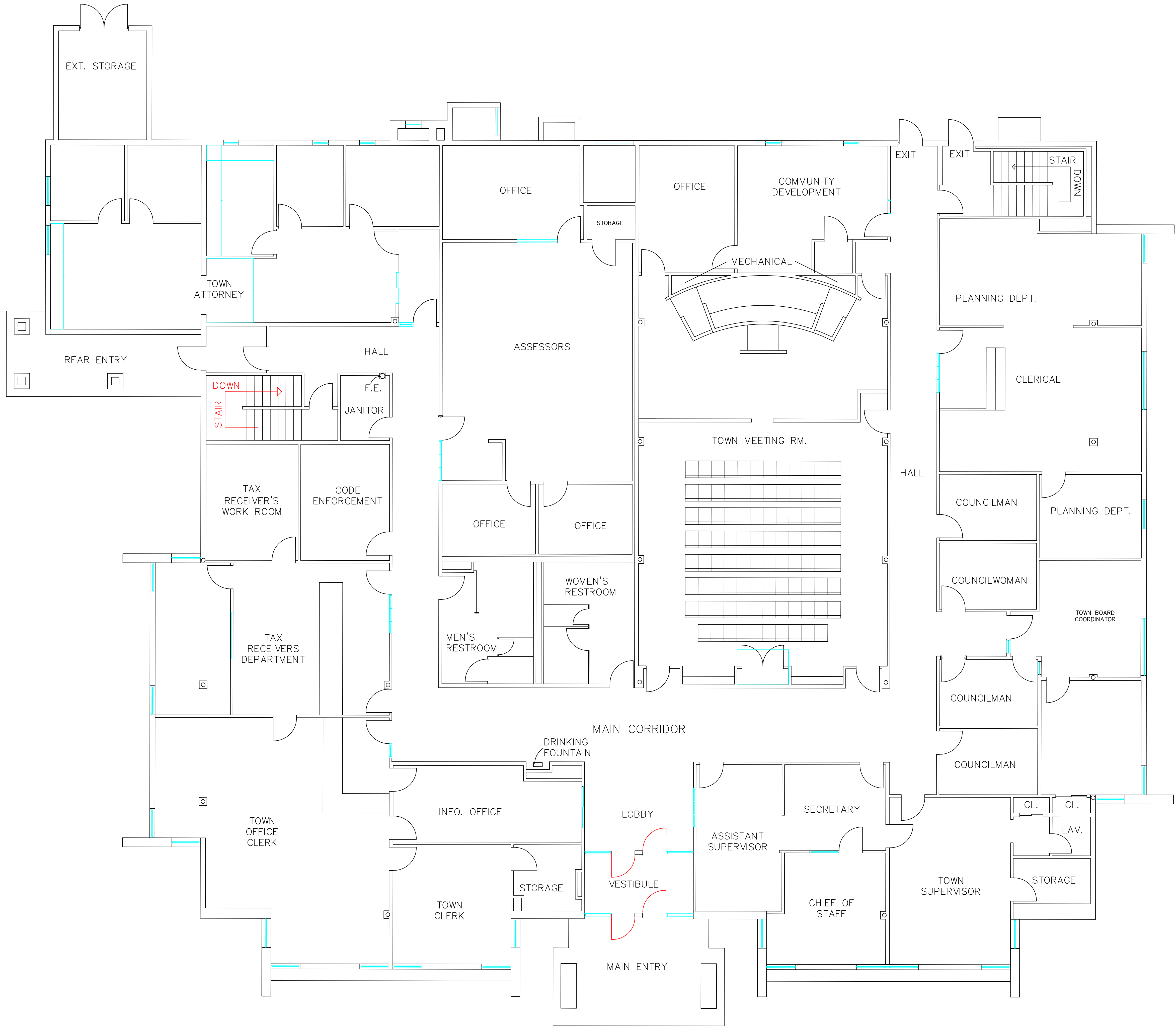
TOWN HALL

SHEET TITLE

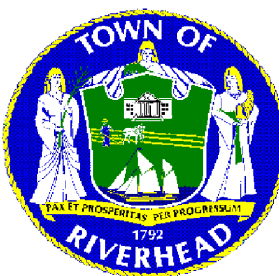
SITE MAP AND FLOOR PLAN

SHEET NUMBER

1 of 1



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



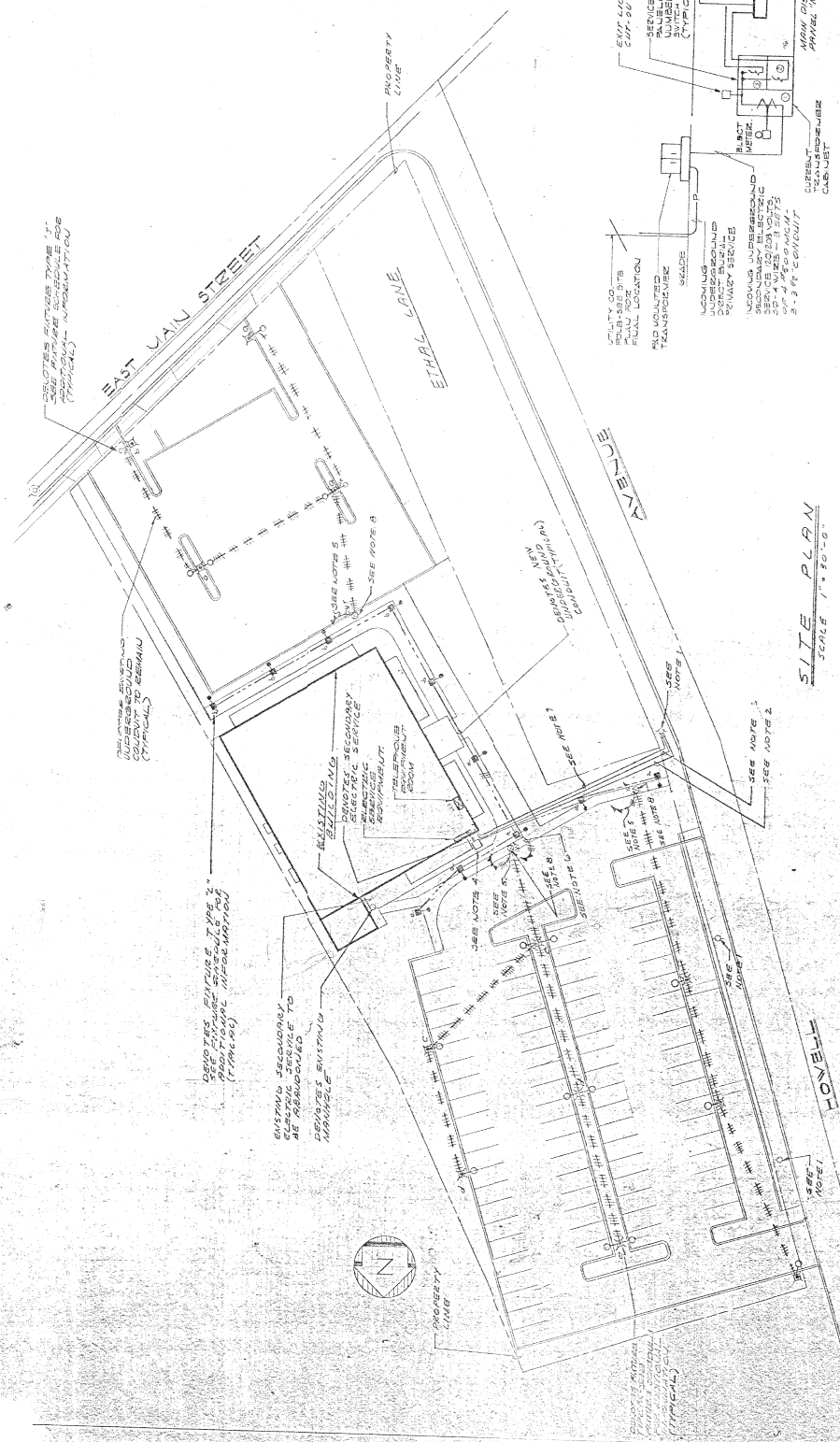
TOWN OF RIVERHEAD
200 HOWELL AVENUE
Riverhead, New York 11901

REVISIONS		
no.	date	description
-	-	-
DATE: 4/19/2011		
SCALE: AS SHOWN		
DESIGN BY: RJH		
DRAWN BY: RJH		

PROJECT TITLE
TOWN HALL
SHEET TITLE
SITE MAP AND FLOOR PLAN
SHEET NUMBER
1 of 1

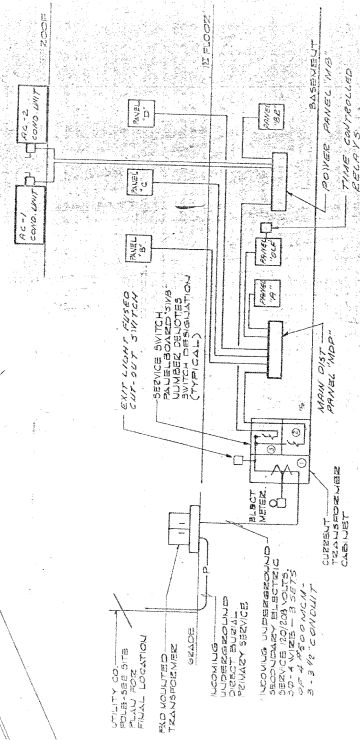
NOTES - SITE PLAN

1. DENOTES EXISTING UTILITY CONDUIT RUNS TO REMAIN.
2. REMOTES LOCATING UNDERGROUND CEMENT AND POWER DISTRIBUTION SYSTEMS. SEE LIGHT AND POWER DIST. SYSTEM FOR ADDITIONAL INFORMATION.
3. TELEPHONE AND UNDERGROUND DIRECT BURIAL SYSTEM FOR ADDITIONAL INFORMATION. SEE DIST. SYSTEM FOR ADDITIONAL INFORMATION.
4. DENOTES NEW MOUNTED TRANSFORMER. FULLY INSULATED, 5000 VA, 240/120/720V, 3 PHASE, 4 WIRE, 60 HZ. SEE LIGHT AND POWER DIST. SYSTEM FOR ADDITIONAL INFORMATION.
5. TO MOUNTED AND TIME CONTROLLED RELAY. SEE LIGHT AND POWER DIST. SYSTEM FOR ADDITIONAL INFORMATION.
6. SEE DETAIL FOR TIME CONTROLLED RELAY.
7. DENOTES MOUNTING UNDERGROUND CEMENT CONDUIT. STUBUP 5'-0" HIGHER THAN EXISTING NUTR. NO. 4 CONDUIT. SEE LIGHT AND POWER DIST. SYSTEM FOR ADDITIONAL INFORMATION.
8. DENOTES NEW SPICE BOX. ELECTRICAL CONDUIT SHALL BE MOUNTED NEW SPICE BOX TO EXISTING CONDUIT RUN AND BEHIND COMPLETE NEW MOUNTED ON THE SITE. NEW. PLUMBING TO BE EXISTING LOCATION STANDS.

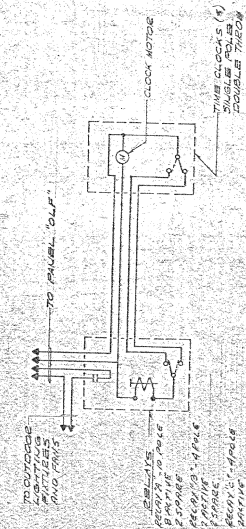


SITE PLAN
SCALE 1" = 30'-0"

LIGHT AND POWER DISTRIBUTION SYSTEM (NO SCALE)



- GENERAL NOTES**
1. ELECTRICAL SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AS AMENDED, AND ALL APPLICABLE LOCAL ORDINANCES.
 2. LOCATION OF ELECTRICAL EQUIPMENT SHALL BE AS SHOWN ON THE LOCATION REFLECTED CEILING PLAN FOR EACH FLOOR.
 3. ALL EXISTING ELECTRICAL EQUIPMENT SHALL BE REMOVED UNLESS OTHERWISE SHOWN.
 4. CONTRACTOR SHALL BE HELD TO HAVE EXAMINED THE SITE SUBMITTED AND PROVIDED FOR HIS OWN VERIFICATION OF THE CONDITIONS RECEIVED FOR CONDUCTIONS BEFORE BEGINNING THE WORK.



DETAIL "O"

ELECTRICAL
SITE PLAN

RIVERHEAD TOWN HALL
EAST MAIN ST. & HOWELL AVE.
RIVERHEAD, N.Y. 11901
DONALD A. DENNIS, AIA, ARCHITECT
PO BOX 505, MAIN ROAD
LAQUEBROOK, N.Y. 11901-5055
AARON ZCHEVIAN
CONSULTING ENGINEER
2000 CARSON AVE. LINDEN, N.J. 07036

SCHEDULE - SERVICE SWS (SWS) (2025) (SWS) (SWS)									
TYPE	DESCRIPTION	UNIT	QTY	PRICE	AMOUNT	REMARKS	DATE	BY	CHK
1	1" PIPING	100'	1	100.00	100.00				
2	2" PIPING	100'	1	200.00	200.00				
3	3" PIPING	100'	1	300.00	300.00				
4	4" PIPING	100'	1	400.00	400.00				
5	5" PIPING	100'	1	500.00	500.00				
6	6" PIPING	100'	1	600.00	600.00				
7	7" PIPING	100'	1	700.00	700.00				
8	8" PIPING	100'	1	800.00	800.00				
9	9" PIPING	100'	1	900.00	900.00				
10	10" PIPING	100'	1	1000.00	1000.00				
11	11" PIPING	100'	1	1100.00	1100.00				
12	12" PIPING	100'	1	1200.00	1200.00				
13	13" PIPING	100'	1	1300.00	1300.00				
14	14" PIPING	100'	1	1400.00	1400.00				
15	15" PIPING	100'	1	1500.00	1500.00				
16	16" PIPING	100'	1	1600.00	1600.00				
17	17" PIPING	100'	1	1700.00	1700.00				
18	18" PIPING	100'	1	1800.00	1800.00				
19	19" PIPING	100'	1	1900.00	1900.00				
20	20" PIPING	100'	1	2000.00	2000.00				
21	21" PIPING	100'	1	2100.00	2100.00				
22	22" PIPING	100'	1	2200.00	2200.00				
23	23" PIPING	100'	1	2300.00	2300.00				
24	24" PIPING	100'	1	2400.00	2400.00				
25	25" PIPING	100'	1	2500.00	2500.00				
26	26" PIPING	100'	1	2600.00	2600.00				
27	27" PIPING	100'	1	2700.00	2700.00				
28	28" PIPING	100'	1	2800.00	2800.00				
29	29" PIPING	100'	1	2900.00	2900.00				
30	30" PIPING	100'	1	3000.00	3000.00				
31	31" PIPING	100'	1	3100.00	3100.00				
32	32" PIPING	100'	1	3200.00	3200.00				
33	33" PIPING	100'	1	3300.00	3300.00				
34	34" PIPING	100'	1	3400.00	3400.00				
35	35" PIPING	100'	1	3500.00	3500.00				
36	36" PIPING	100'	1	3600.00	3600.00				
37	37" PIPING	100'	1	3700.00	3700.00				
38	38" PIPING	100'	1	3800.00	3800.00				
39	39" PIPING	100'	1	3900.00	3900.00				
40	40" PIPING	100'	1	4000.00	4000.00				
41	41" PIPING	100'	1	4100.00	4100.00				
42	42" PIPING	100'	1	4200.00	4200.00				
43	43" PIPING	100'	1	4300.00	4300.00				
44	44" PIPING	100'	1	4400.00	4400.00				
45	45" PIPING	100'	1	4500.00	4500.00				
46	46" PIPING	100'	1	4600.00	4600.00				
47	47" PIPING	100'	1	4700.00	4700.00				
48	48" PIPING	100'	1	4800.00	4800.00				
49	49" PIPING	100'	1	4900.00	4900.00				
50	50" PIPING	100'	1	5000.00	5000.00				
51	51" PIPING	100'	1	5100.00	5100.00				
52	52" PIPING	100'	1	5200.00	5200.00				
53	53" PIPING	100'	1	5300.00	5300.00				
54	54" PIPING	100'	1	5400.00	5400.00				
55	55" PIPING	100'	1	5500.00	5500.00				
56	56" PIPING	100'	1	5600.00	5600.00				
57	57" PIPING	100'	1	5700.00	5700.00				
58	58" PIPING	100'	1	5800.00	5800.00				
59	59" PIPING	100'	1	5900.00	5900.00				
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79	79" PIPING	100'	1	7900.00	7900.00				
80	80" PIPING	100'	1	8000.00	8000.00				
81	81" PIPING	100'	1	8100.00	8100.00				
82	82" PIPING	100'	1	8200.00	8200.00				
83	83" PIPING	100'	1	8300.00	8300.00				
84	84" PIPING	100'	1	8400.00	8400.00				
85	85" PIPING	100'	1	8500.00	8500.00				
86	86" PIPING	100'	1	8600.00	8600.00				
87	87" PIPING	100'	1	8700.00	8700.00				
88	88" PIPING	100'	1	8800.00	8800.00				
89	89" PIPING	100'	1	8900.00	8900.00				
90	90" PIPING	100'	1	9000.00	9000.00				
91	91" PIPING	100'	1	9100.00	9100.00				
92	92" PIPING	100'	1	9200.00	9200.00				
93	93" PIPING	100'	1	9300.00	9300.00				
94	94" PIPING	100'	1	9400.00	9400.00				
95	95" PIPING	100'	1	9500.00	9500.00				
96	96" PIPING	100'	1	9600.00	9600.00				
97	97" PIPING	100'	1	9700.00	9700.00				
98	98" PIPING	100'	1	9800.00	9800.00				
99	99" PIPING	100'	1	9900.00	9900.00				
100	100" PIPING	100'	1	10000.00	10000.00				

SCHEDULE - POWER PWB (PWB) (2025) (PWB) (PWB)									
TYPE	DESCRIPTION	UNIT	QTY	PRICE	AMOUNT	REMARKS	DATE	BY	CHK
1	1" PIPING	100'	1	100.00	100.00				
2	2" PIPING	100'	1	200.00	200.00				
3	3" PIPING	100'	1	300.00	300.00				
4	4" PIPING	100'	1	400.00	400.00				
5	5" PIPING	100'	1	500.00	500.00				
6	6" PIPING	100'	1	600.00	600.00				
7	7" PIPING	100'	1	700.00	700.00				
8	8" PIPING	100'	1	800.00	800.00				
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18	18" PIPING	100'	1	1800.00	1800.00				
19	19" PIPING	100'	1	1900.00	1900.00				
20	20" PIPING	100'	1	2000.00	2000.00				
21	21" PIPING	100'	1	2100.00	2100.00				
22	22" PIPING	100'	1	2200.00	2200.00				
23	23" PIPING	100'	1	2300.00	2300.00				
24	24" PIPING	100'	1	2400.00	2400.00				
25	25" PIPING	100'	1	2500.00	2500.00				
26	26" PIPING	100'	1	2600.00	2600.00				
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47	47" PIPING	100'	1	4700.00	4700.00				
48	48" PIPING	100'	1	4800.00	4800.00				
49	49" PIPING	100'	1	4900.00	4900.00				
50	50" PIPING	100'	1	5000.00	5000.00				
51	51" PIPING	100'	1	5100.00	5100.00				
52	52" PIPING	100'	1	5200.00	5200.00				
53	53" PIPING	100'	1	5300.00	5300.00				
54	54" PIPING	100'	1	5400.00	5400.00				



- LOT 125 :**



ELECTRICAL

FILE NO.	7-21-75
DATE	7-21-75

DEAN'S V. A. REC'D

65 VALU ROAD

156-724-915 • 1661 入町 307

FORNELL

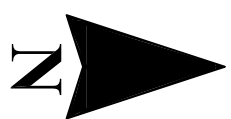
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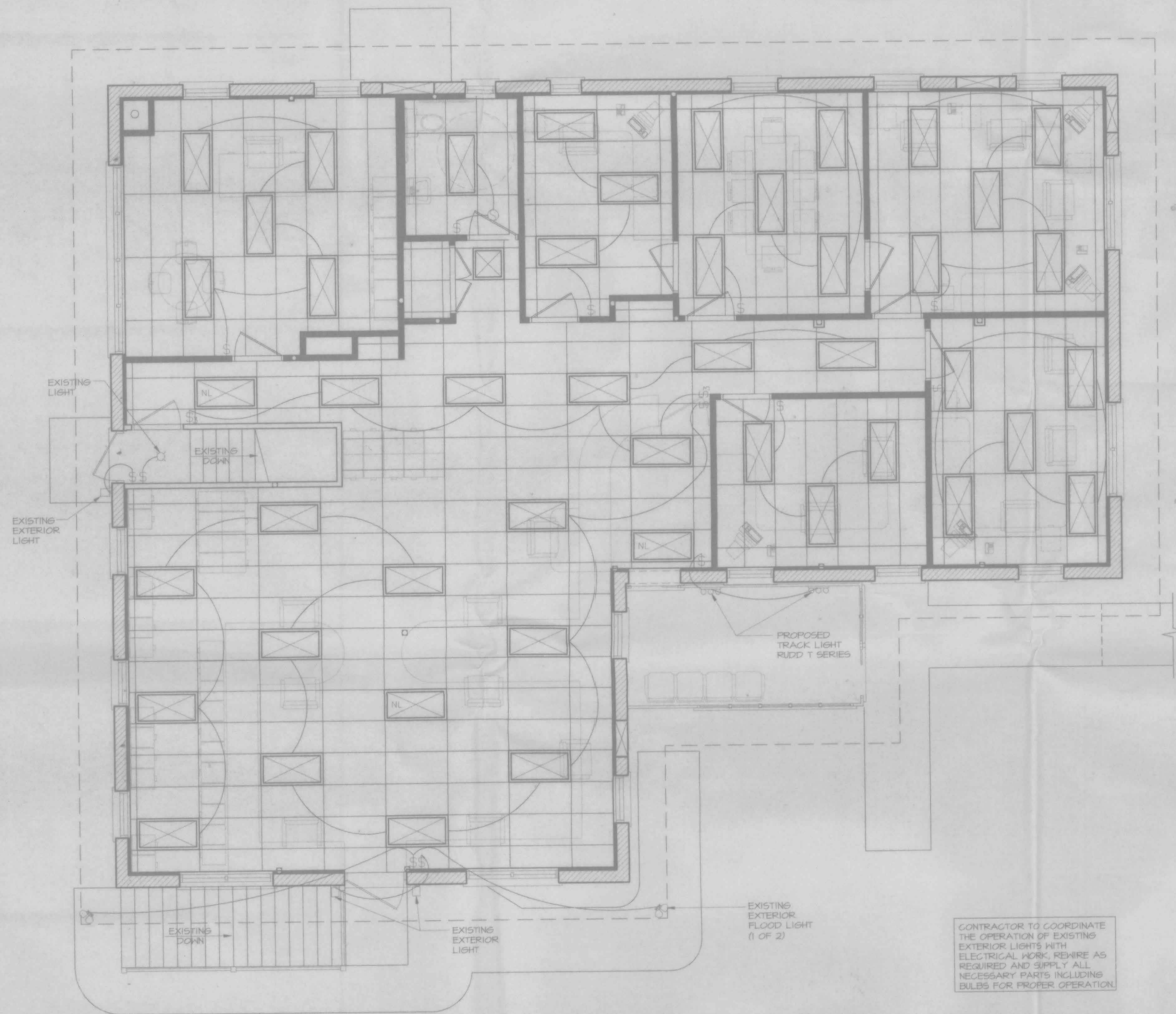
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ELECTZ
VAIN FLOOZ

EVERETT
EAST VAN
DANIELA
DANIELA
DANIELA

FOUND A DENIS ALIA ARCHITECT
CONSTRUCTION COMPANY
ADDRESS 108-726-3511
ALIA ARCHITECT
CONSULTING
38 JACARANDA AVENUE, LONDON

[illegible]



MAIN LEVEL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

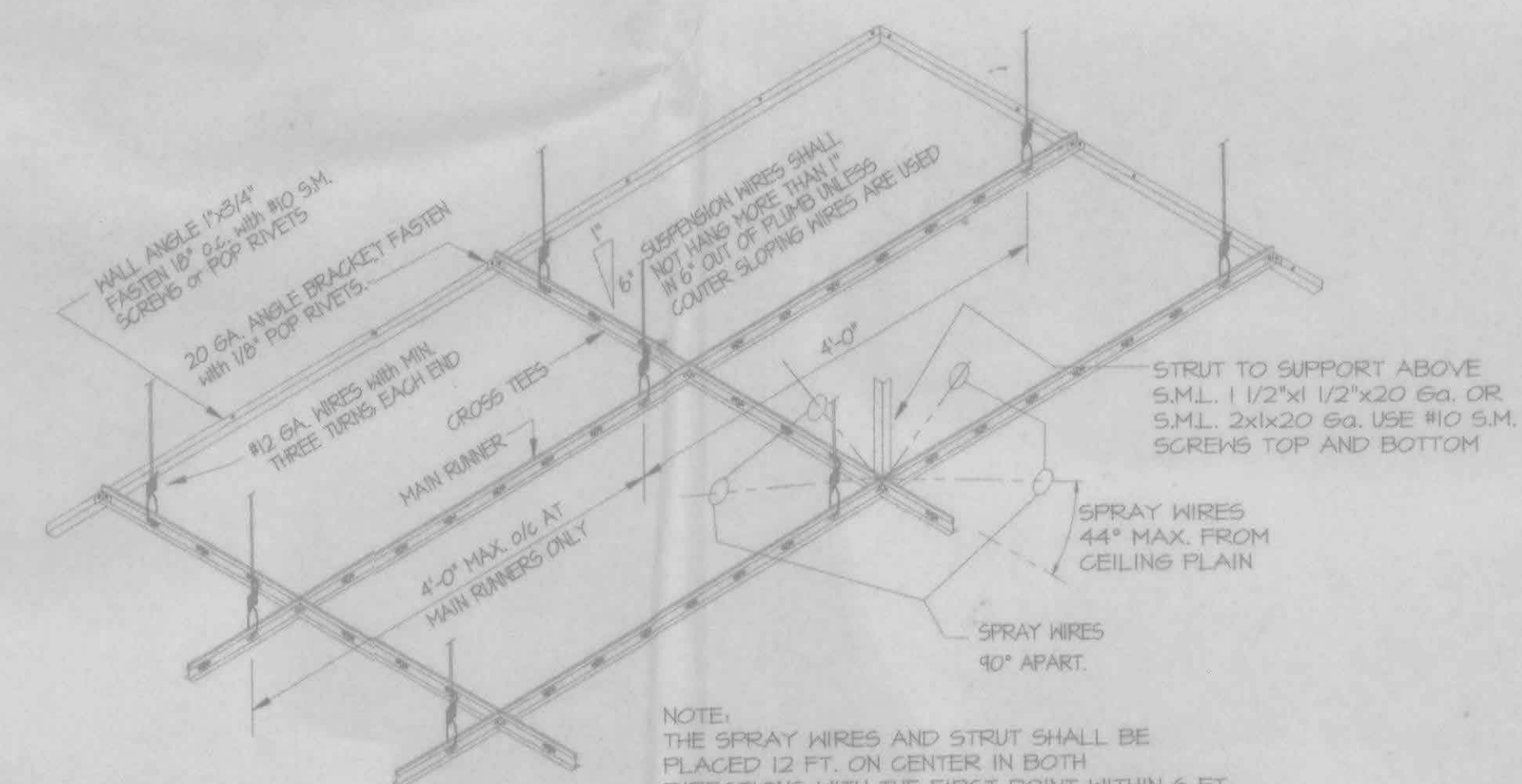
- SUSPENDED CEILING :**
- 1) SUSPENDED CEILING SHALL BE MODEL #220 (2'0"x4'0") FIFTH AVENUE USG FIRECODE (NON-TAPERED, SQUARE EDGE), (MODEL #671 - 2'0"x2'0" AS WHERE SHOWN ON PLAN) SURFACE BURNING CHARACTERISTICS PER ASTM E 84; FLAME SPREAD = 5; SMOKE DEVELOPED = 0; CLASS 'A' BUILDING MATERIAL; COLOR - WHITE.
 - 2) SUSPENSION SYSTEM SHALL BE PRE FINISHED WHITE METAL GRID WITH MAIN TEES AT 2'0" O.C. AND CROSS TEES SHALL BE INSTALLED AT 2'-0" O.C. PERPENDICULAR TO MAIN TEES.
 - 3) SUPPORTS SHALL BE #12 GA. GALVANIZED ANNEALED WIRE FIXED TO MAIN TEES AND ROOF STRUCTURAL MEMBERS AT 4'-0" O.C. MAXIMUM SPACING.
 - 4) LIGHT FIXTURES SHALL BE FASTENED TO METAL GRID SYSTEM WITH ONE 1/8" DIAMETER BLIND RIVET AT EACH CORNER. EACH CORNER OF LIGHT FIXTURE SHALL BE SUPPORTED FROM ROOF STRUCTURAL WITH #12 GA. GALVANIZED ANNEALED WIRE.

CEILING HEIGHT (MAIN FLOOR) : 7'6" UNLESS OTHERWISE NOTED

NOTE: SEE ELECTRICAL PLAN FOR EMERGENCY LIGHTING AND EXIT SIGN LOCATIONS

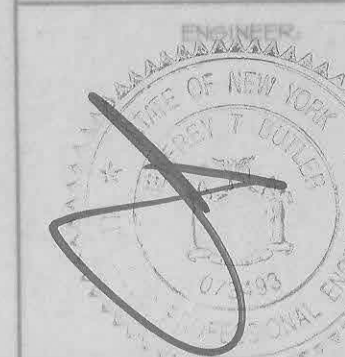
CONTRACTOR TO COORDINATE THE OPERATION OF EXISTING EXTERIOR LIGHTS WITH ELECTRICAL WORK, REWIRE AS REQUIRED AND SUPPLY ALL NECESSARY PARTS INCLUDING BULBS FOR PROPER OPERATION

- LEGEND**
- 2'-0" x 4'-0" RECESSED MNT. LIGHT WITH USG PRISMATIC WHITE LENS
 - 2'-0" x 4'-0" RECESSED MNT. LIGHT (NIGHT LIGHT) WIRE DIRECT TO PANEL WITH USG PRISMATIC WHITE LENS
 - 2'-0" x 2'-0" RECESSED MNT. LIGHT WITH USG PRISMATIC WHITE LENS
 - 10" x 4'-0" HANGING LIGHT
 - RECESSED MNT. CAN LIGHT
 - EXTERIOR FLOOD LIGHT
 - SWITCH
 - THREE WAY SWITCH
 - WALL MOUNTED EXIT LIGHT (SEE ELECTRICAL PLAN)
 - EXHAUST FAN (150 CFM, DUCT TO EXTERIOR)
 - EMERGENCY LIGHTING (SEE FLOOR PLAN)
 - PROPOSED RUDD T-SERIES TRACK LIGHT CAT# TFBRS

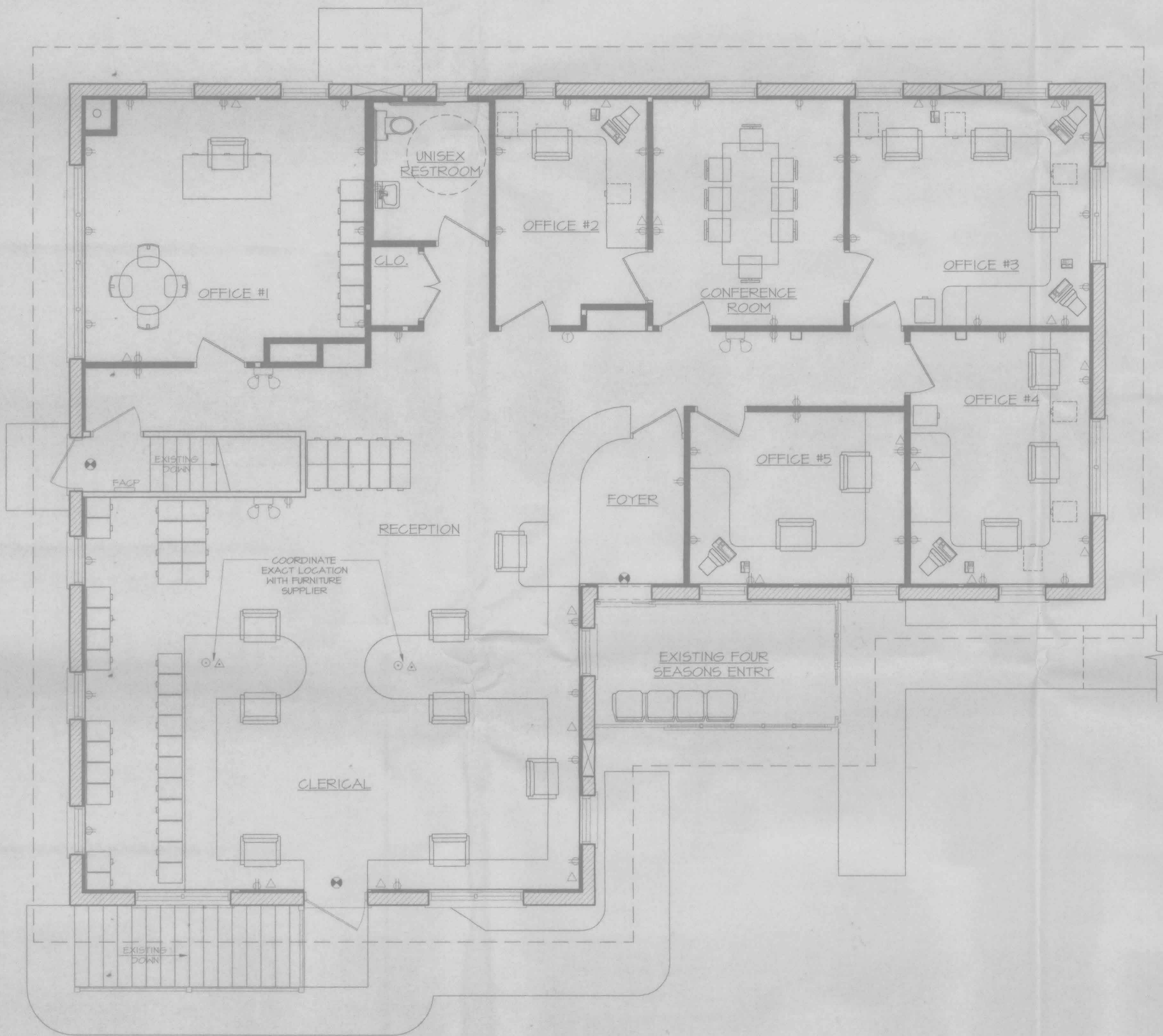


SUSPENDED CEILING SUPPORT DETAIL
NOT TO SCALE

JEFFREY T. BUTLER, P.E.
P.O. BOX 634
SHOREHAM, NEW YORK
TEL.: 631.208.8850 FAX: 631.727.8033



MAIN LEVEL REFLECTED CEILING PLAN
TOWN OF RIVERHEAD
BUILDING DEPARTMENT
201 HOWELL AVENUE
RIVERHEAD, NY 11901
COUNTY OF SUFFOLK, TOWN OF RIVERHEAD
JOB No.: 030043
DATE: 5/24/03
DRAWN BY: DS
APPROVED BY: JTB



MAIN LEVEL ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

POWER PLAN LEGEND

SYMBOL	DESCRIPTION
	DUPLEX CONVENIENCE RECEPTACLE
	SINGLE PLEX RECEPTACLE
	DUPLEX ISOLATED GROUND RECEPTACLE - ORANGE IN COLOR
	JUNCTION BOX
	WEATHER PROOF
	GROUND FAULT INTERRUPT
	SINGLE POLE SWITCH
	THERMOSTAT (SEE HVAC SPEC'S) CONTROL TO HAVE A READILY ACCESSIBLE MANUALLY ADJUSTABLE AUTOMATIC MEANS OF REDUCING THE ENERGY USED FOR HVAC DURING PERIODS OF NON USE OR ALTERNATE USED OF BLDG. SPACES OR ZONES SERVED BY THE SYSTEM.
	DATA/TELEPHONE, 24" AFF
	FLOOR DATA/TELEPHONE OUTLET FOR SYSTEM FURNITURE
	FLOOR MOUNTED POWER FOR SYSTEM FURNITURE
	EXIT SIGN, DOOR WITH PANIC HARDWARE
	EMERGENCY LIGHT

POWER/TELEPHONE NOTES

1. ALL ELECTRICAL AND TELEPHONE OUTLET PLATES TO BE STAINLESS STEEL FINISH.
2. NEW WALL MOUNTED OUTLETS TO BE MOUNTED 12" A.F.F. UNLESS OTHERWISE NOTED.
3. ALL NEW WALL SWITCHES MOUNTING HEIGHT TO MATCH EXISTING.
4. ALL LIGHTING SHALL BE CONTROLLED BY SWITCH WITH THE EXCEPTION OF THE NIGHT LIGHTS SHOWN.
5. ELECTRICAL CONTRACTOR IS TO PROVIDE TYPED INDEX CARDS IN ELECTRICAL PANEL FOR CIRCUIT IDENTIFICATION.
6. ELECTRICAL CONTRACTOR IS TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES ON THE SYSTEM REGARDLESS OF CIRCUITING INDICATED.
7. ELECTRICAL CONTRACTOR TO PROVIDE TAP BOX, PANEL BOARD, CONDUITS AND ALL BRANCH WIRING OUTLETS AND FINAL CONNECTIONS TO ALL ELECTRICAL DEVICES INCLUDING MECHANICAL EQUIPMENT AND CONTROLS.
8. ALL ELECTRICAL WIRING TO BE IN CONDUIT OR AS PER LOCAL CODE.
9. ALL DATA/TELEPHONE CABLING AND INSTALLATION OF DEVICES TO BE BY USER SUBCONTRACTOR IN COORDINATION WITH GENERAL CONTRACTOR.
10. EXISTING LIFE SAFETY AND EMERGENCY SYSTEMS TO BE RETAINED AND EXPANDED UPON PER CODE BY CONTRACTOR.
11. ALL DATA CABLE IS TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
12. NETWORK LAYOUT IS TO BE PROVIDED BY CONTRACTOR.
13. ALL DATA/TELEPHONE CABLING AND INSTALLATION OF DEVICES TO BE BY CONTRACTOR.
14. A FIRE PROTECTION SYSTEM IS TO BE INSTALLED BY OWNER IN ACCORDANCE WITH TOWN OF RIVERHEAD CODE.

Emergency Power And Lighting

General requirements.
Emergency power and lighting shall be furnished through independent electrical wiring supplied from a main source, and from an auxiliary source.

Emergency power.
(a) Emergency power shall be provided for:

- (1) the emergency lighting load
- (2) fire control panel
- (3) fire protection signal system
- (4) voice communication systems used as a means of warning or instructing the procedure to be followed in emergencies; and

(b) In the event of failure of the main source, means shall be provided for automatically transferring the power which supplies the emergency power load from the main source to the auxiliary source within 10 seconds.
(c) The auxiliary source shall have a capacity sufficient to supply the total emergency power load for a period of at least 40 minutes, with not more than a 12.5% reduction from rated system voltage, except that for group C6.3 occupancies, such period shall be at least 24 hours.

Emergency lighting.
Emergency lighting shall be provided in occupied spaces, assembly spaces and exits, so as to permit occupants to make their way safely out of the building in the event of failure of the normal lighting. Such lighting systems shall maintain a level of illumination throughout the means of egress in conformity with sections 5-3 and 5-4 of reference standard RS 54-1.

Exit And Directional Signs
(a) Exit and directional signs, visible from the approach to the exits, shall be provided, to permit occupants to make their way safely out of the building.
(b) Exit and directional signs shall be illuminated either externally or internally by artificial light, in conformity with the provisions of section 5-10 of reference standard RS 54-1.
(c) Such signs shall be worded in plainly legible block letters with the word EXIT for exit signs, and the word EXIT with a suitable pointer or arrow indicating the direction of exit, for directional signs. Letters for signs shall be conspicuous, readily discernible, and at least six inches high with three-quarter-inch wide strokes.

Location.
(a) Exit signs shall be provided over each exit doorway where the door is required to swing outward in the direction of exit travel in conformity with sections 139.6(a)(1) and 165.5(a)(1) of this code.
(b) Directional signs shall be provided at locations in the hallways, corridor or aisle from which the exit doorway is not readily discernible.

Power Source.
(a) Power for electrically illuminated exit and directional signs shall be supplied from a separate circuit, or circuits, which supplies no other outlets and is controlled from a central location.
(b) Self-luminous exit and directional signs shall be provided with a self-contained reliable power source.
(c) Where emergency lighting is provided, power for electric lights illuminating exit and directional signs shall be supplied from the emergency lighting system.

MAIN LEVEL ELECTRICAL PLAN

TOWN OF RIVERHEAD
BUILDING DEPARTMENT
201 HOWELL AVENUE
RIVERHEAD, NY 11901

COUNTY OF SUFFOLK TOWN OF RIVERHEAD
JOB No.: 030043

DRAWN BY: DS
APPROVED BY: JTB

DATE: 5/24/03

PAGE:

7

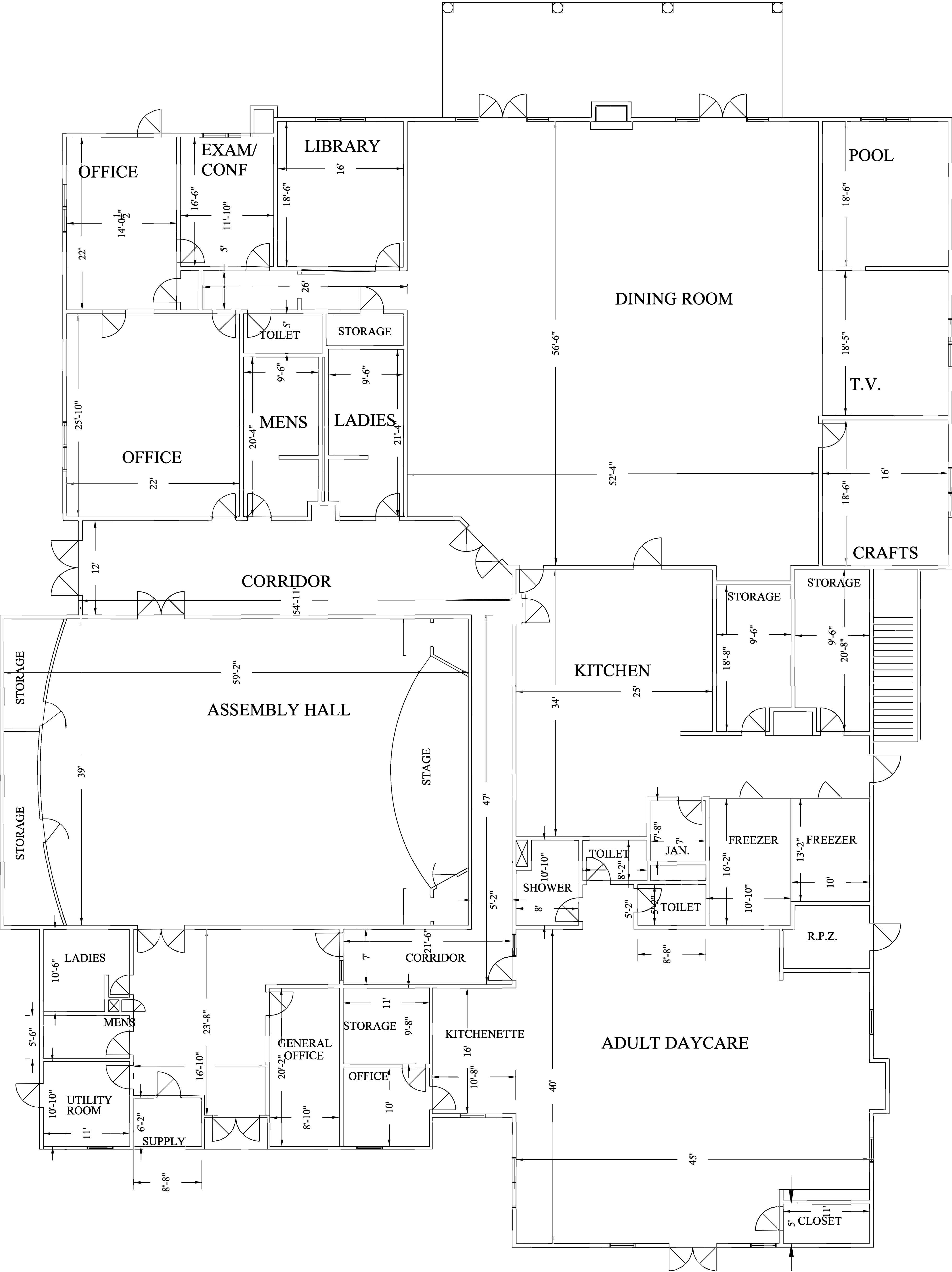
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JEFFREY T. BUTLER, P.E.

P.O. BOX 634
SHOREHAM, NEW YORK
TEL: 631.208.8850 FAX: 631.721.8033

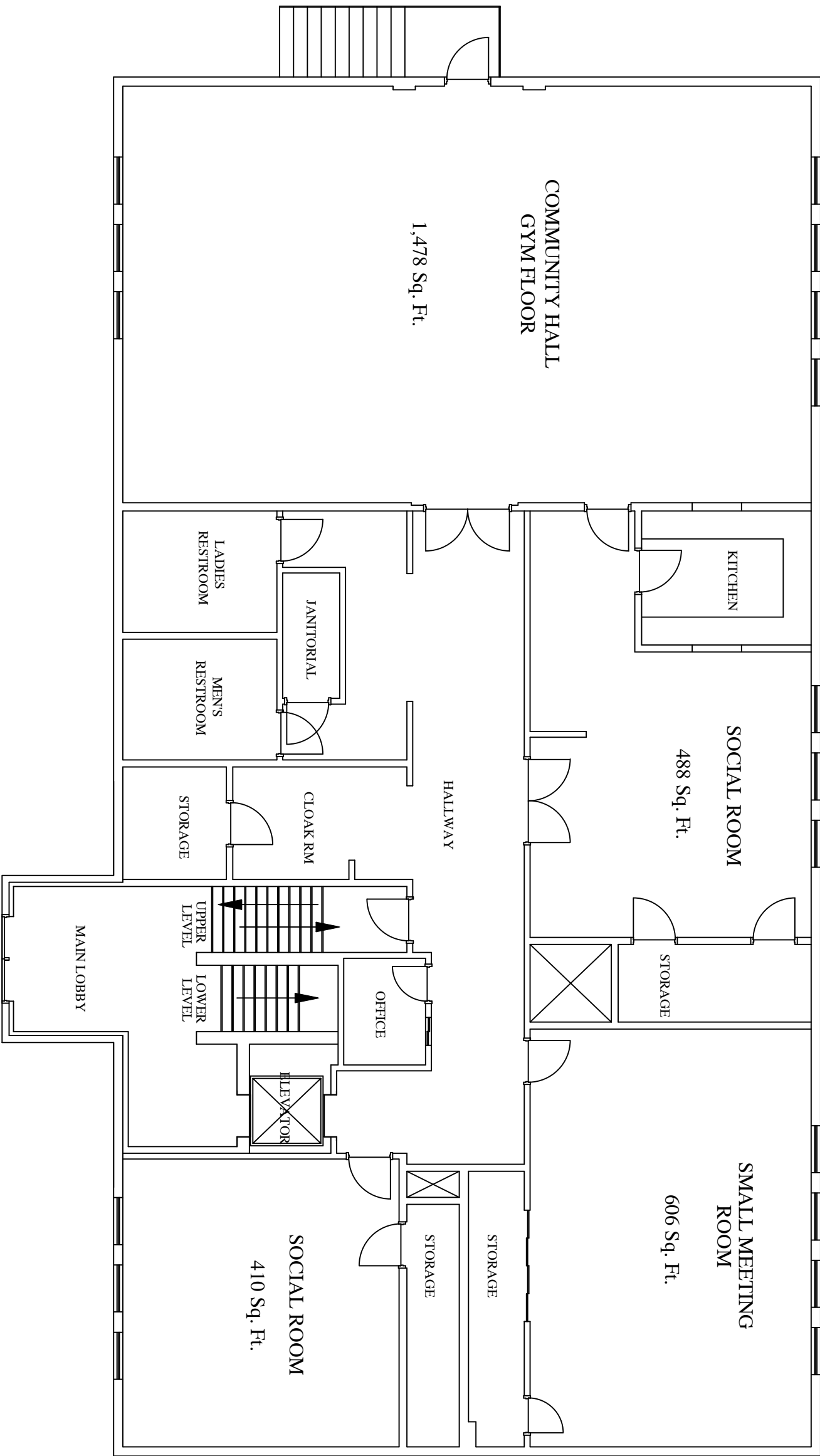


JEFFREY T. BUTLER, P.E.

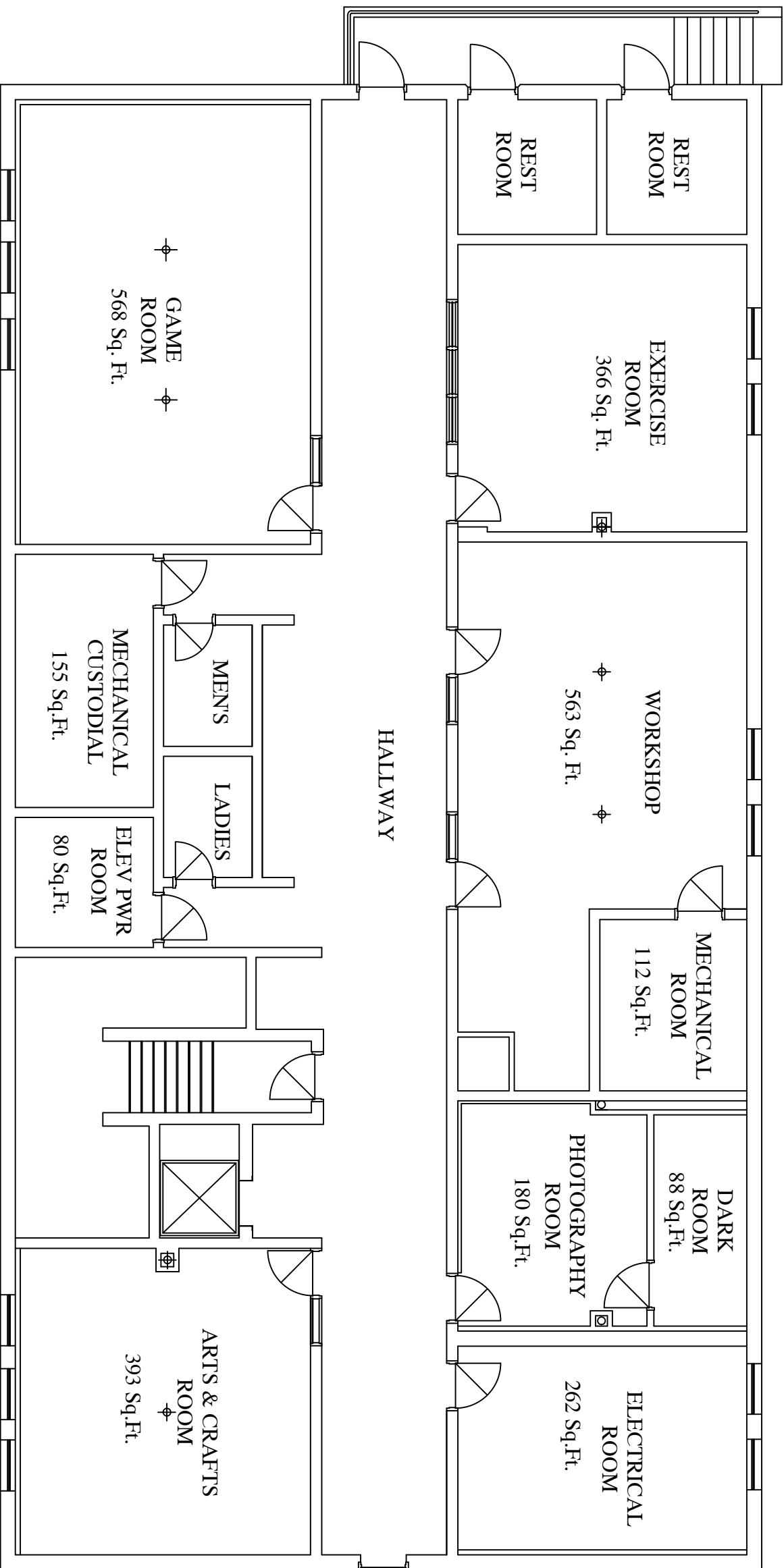


61 Shade Tree Lane Aquebogue Town of Riverhead Senior Center

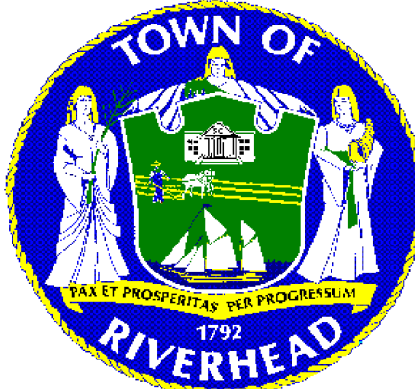
TOWN OF RIVERHEAD
George Young Community Center



FIRST FLOOR



SECOND FLOOR



TOWN OF RIVERHEAD SUFFOLK COUNTY, NEW YORK

ADDITION & ALTERATIONS TO THE TOWN OF RIVERHEAD HIGHWAY MAINTENANCE BUILDING - OSBORNE AVENUE, RIVERHEAD, N.Y.

CONTRACT NO.1 — GENERAL CONSTRUCTION & SITE WORK
CONTRACT NO.2 — ELECTRICAL WORK
CONTRACT NO.3 — MECHANICAL WORK
CONTRACT NO.4 — PLUMBING WORK

TOWN BOARD

SUPERVISOR

Joseph F. Janoski

COUNCIL MEMBERS

Denise Civiletti
Francis Creighton

Victor J. Prusinowski
James R. Stark

SUPERINTENDENT

Charles B. Bloss

TOWN CLERK

Irene J. Pendzick

TOWN ENGINEER

Kenneth Testa, P.E.

DRAWING INDEX

T-1 TITLE SHEET
S-1 PLOT PLAN & DETAILS
A-1 FOUNDATION PLAN & DETAILS
A-2 FLOOR PLANS
A-3 SECOND FLOOR PLAN & WINDOW ELEVATIONS
A-4 ROOF PLAN & DETAILS
A-5 SECOND FLOOR & ROOF FRAMING PLANS
A-6 SECOND FLOOR & ROOF FRAMING DETAILS
A-7 ELEVATIONS & DETAILS
A-8 SECTION & DETAILS
A-9 BUILDING SECTIONS & STAIR DETAILS
A-10 DRUM STORAGE PLAN & DETAILS
A-11 WALL SECTIONS & MISC. DETAILS
A-12 SCHEDULES & DETAILS

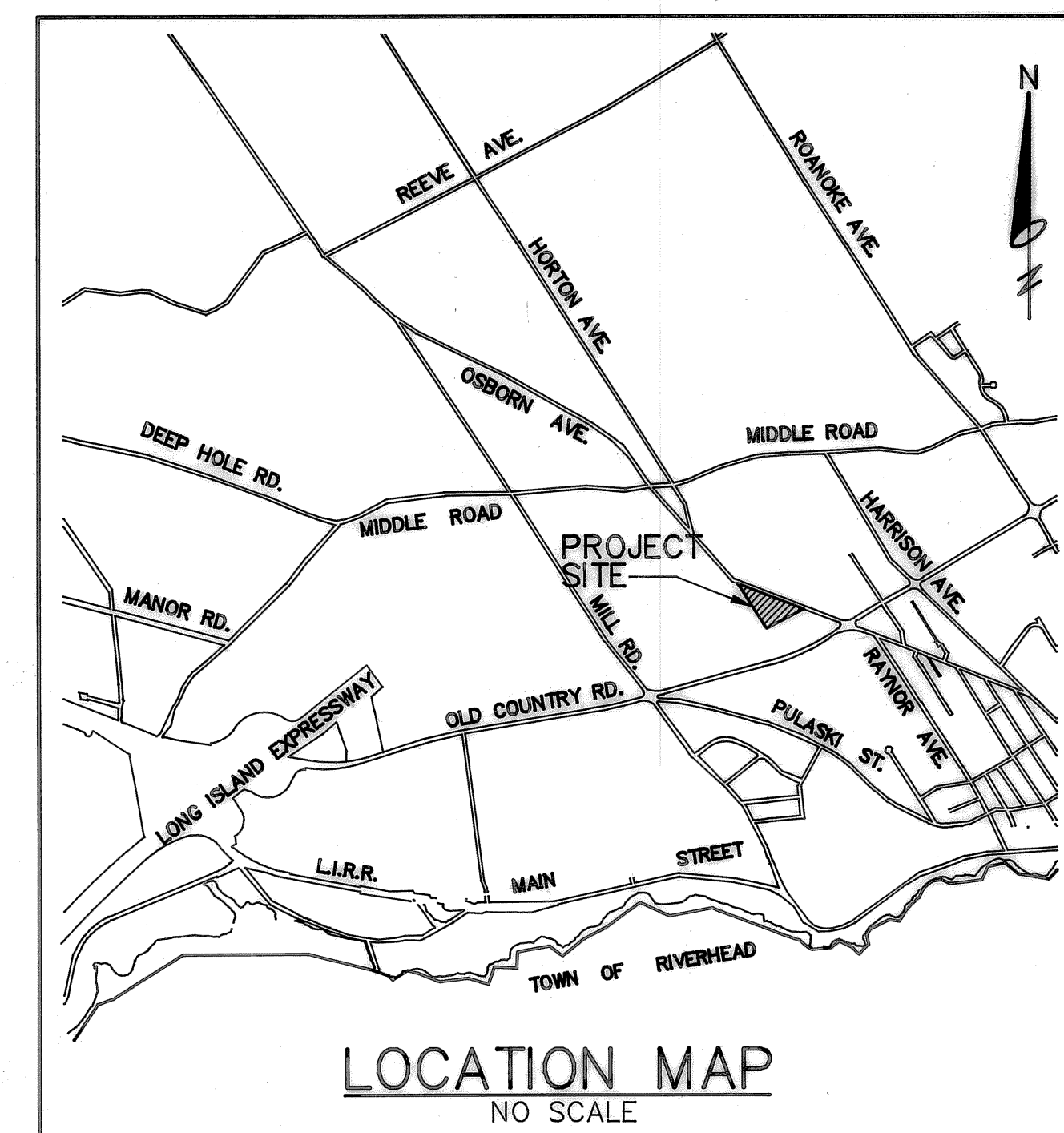
E-1 FIRST FLOOR & BASEMENT PLANS & DETAILS
E-2 SECOND FLOOR PLAN
E-3 SCHEDULES & DETAILS

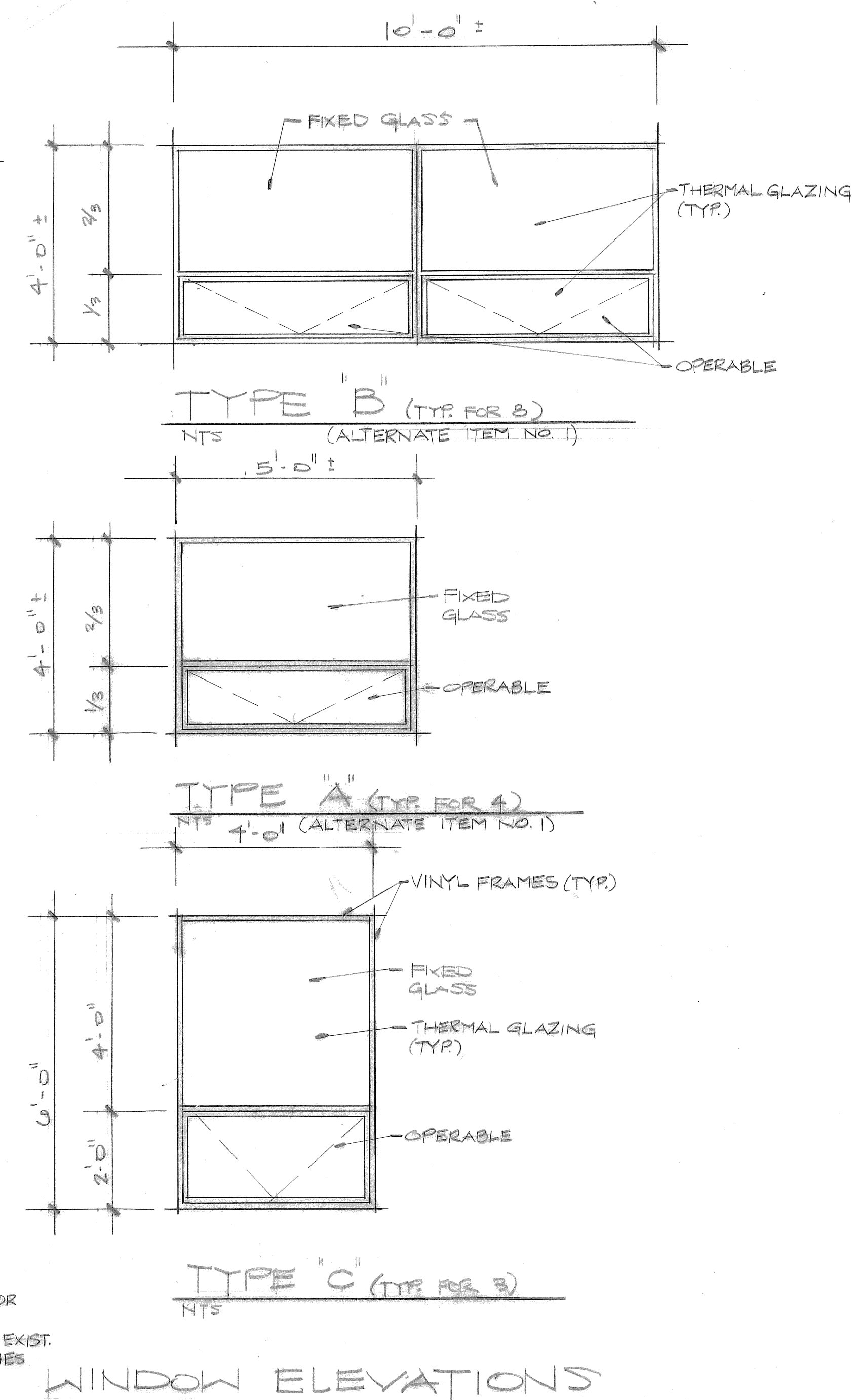
M-1 FIRST FLOOR PLAN & DETAILS
M-2 SECOND FLOOR PLAN & RISERS
M-3 ROOF PLAN
M-4 HVAC SCHEDULES
M-5 HVAC DETAILS

P-1 FIRST FLOOR PLAN
P-2 SECOND FLOOR PLAN & RISER

H2M GROUP
Holzmaacher, McLendon & Murrell, P.C.
CONSULTING ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS
MELVILLE, N.Y. TOTOWA, N.J.

516-756-8000 ■
201-575-5400 □





Designed By: _____	Project No: _____	TOWN OF RIVERHEAD ADDITION & ALTERATIONS TO TOWN OF RIVERHEAD HIGHWAY MAINTENANCE BUILDING OSBORNE AVE.
Drawn By: _____	Drawn Name: _____	
Checked By: _____	Scale: <u>AS NOTED</u>	
Reviewed By: _____	Date: <u>02/05/99</u>	
<u>12-6-99</u> DELETED THRU WALL UNIT & DETAIL REF. GYP.	Revisions: 	
		 Holzmacher, McLendon & Murrell, P.C. CONSULTING ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS MELVILLE, N.Y. TOTTOWN, N.J.
*ALTERATION OF THIS DOCUMENT, EXCEPT BY A LICENSED PROFESSIONAL IN THE FIELD		Sheet Title: <u>SECOND FLOOR PLAN</u> <u>& WINDOW ELEVATIONS</u>

Town of Riverhead

Suffolk County, New York

Addition and Alteration to Mechanics Maintenance Facility

Located at:
Old Country Road (CR58)
Riverhead, NY

H2M PROJECT No. RIVT 00-07

CONTRACT 'G' - GENERAL CONSTRUCTION WORK AND SITEWORK
CONTRACT 'H' - HVAC WORK
CONTRACT 'P' - PLUMBING WORK
CONTRACT 'E' - ELECTRICAL WORK

AUGUST 2001

LOOSE LINTEL SCHEDULE

MARK	SIZE	DETAIL	COMMENTS
LL1	(2) 4 3/2"x3 1/2"x5/8"	JL	
LL2	(2) 4 5"x3 1/2"x5/8"	JL	LONG LEG VERTICAL

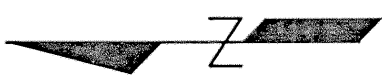
NOTE: LENGTH OF LOOSE LINTEL TO BE
M.O. + 1'-4" TO PROVIDE 8" OF BEARINGS
AT EACH END.

NOTE:

1. PROVIDE COLUMN WELD-ON TIES AND ANCHORS
FOR EACH COLUMN AT MASONRY WALL (TYP.)
2. PROVIDE 2 1/2" METAL STUDS 16' O.C. WITH 5/8" GYP. BD.

MEZZANINE PLAN
FLOOR PLAN

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



FIRST FLOOR PLAN

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

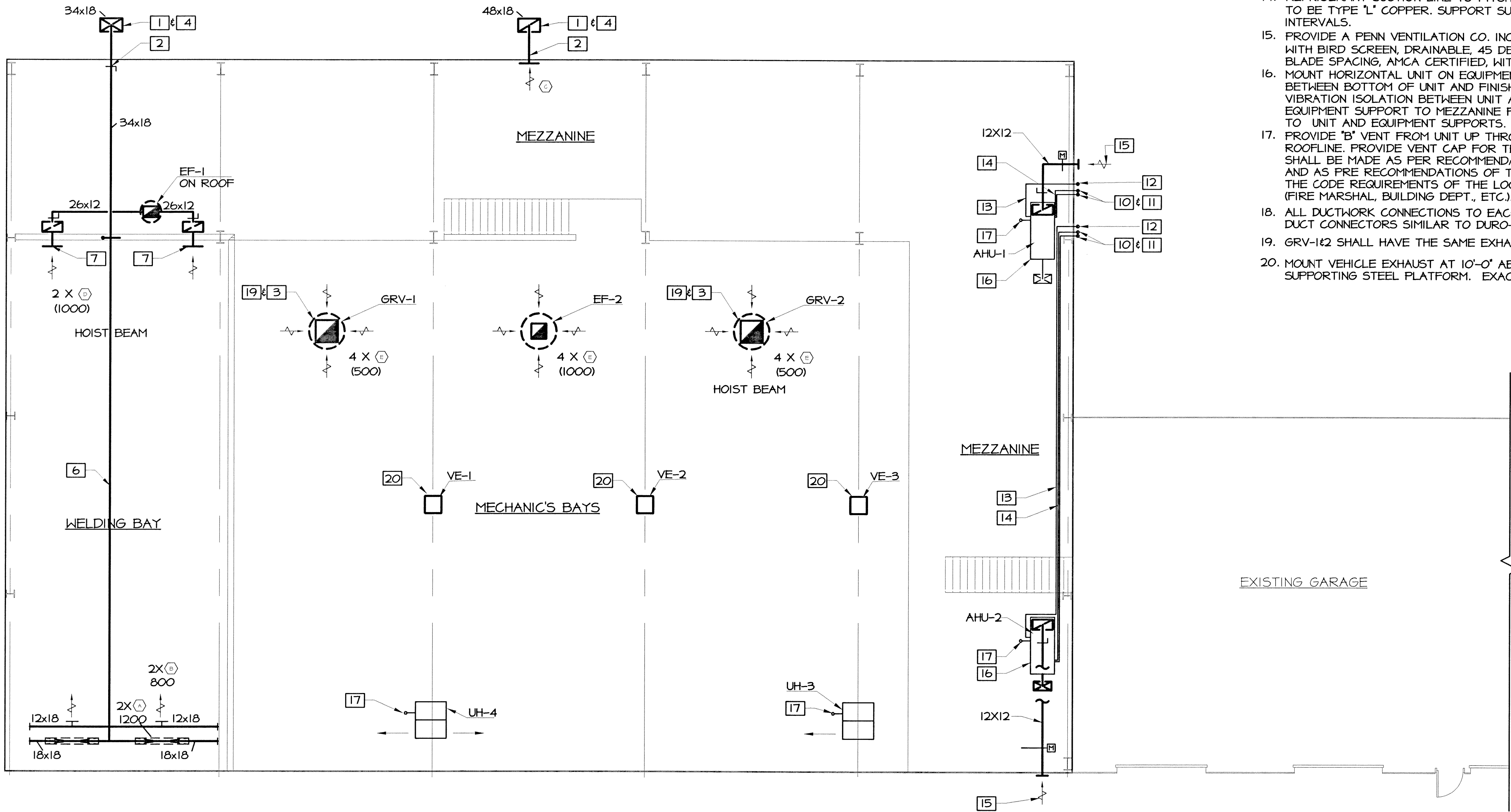
MARK	DATE	DESCRIPTION
ISSUE:		
PROJECT NO: RIVT 00-07		
DATE: AUGUST 2001		
CAD DWG FILE: AR_FP.DWG		
XREF DWG FILE: Municipal Garage Bldg/Xrefs/AR_FP.DWG		
SCALE: AS SHOWN		
FILE LOCATION:		
DESIGNED BY: RMS		
DRAWN BY: LEM		
CHECKED BY:		
REVIEWED BY:		

DIFFUSER SCHEDULE						
ID	MODEL NUMBER	BLOW PATTERN	CFM	NC *	NECK	REMARKS
⑤	5010-72"X8 SLOT-C-SA-M1	-	1200	-	72X14	-
⑤	51DH-OA-16X16-SA-C	-	800	-	16X16	-
⑤	51 EGS OA-42X60-SA-C-CC	-	8000	24	42X60	-
⑤	51 EGS-OA-16X16-SA-C-CA	-	1000	-	-	-
⑤	51 EGS-24X12-SA-A-CA	-	-	22	24X12	-

* NO ENTRY INDICATES NC IS UNDER 25

CONSTRUCTION NOTES

1. SECURE DUCTWORK BRACING TO BUTLER BUILDING IN A MANNER ACCEPTABLE TO THE MANUFACTURER OF THE STRUCTURE. SECURE DUCTWORK BRACING TO THE DUCTWORK AS PRE THE LATEST ADDITION OF SMACNA. DUCTWORK BRACING SHALL BE MADE OF ALUMINUM. POINTS OF ATTACHMENT SHALL BE MADE WITH SPACING OF DUCTWORK BRACING NO MORE THAN 4'-0" ON CENTER ON DUCTWORK RISER AND AT EACH CHANGE IN DIRECTION.
2. PENETRATE WALL OF BUTLER BUILDING AND WATERPROOF IN A MANNER ACCEPTABLE TO THE MANUFACTURER OF THE STRUCTURE.
3. GRAVITY PROOF VENTILATOR- GREENHECK- MODEL GRV-30, 30X30 BAROMETRIC DAMPER, ALUMINUM VENTILATOR, 12" HIGH PREFAB ALUMINUM CURB WITH DAMPER HOLDING TRAY
4. WATERPROOF ALL DUCTWORK BEING INSTALLED OUTDOORS UNDER THIS CONTRACT. ALL OUTDOOR DUCTWORK SHALL WATERPROOFED WITH A FLEXIBLE SELF-ADHERING FLEX CAD 400 WEATHER PROOFING SYSTEM. THE FLEX CLAD 400 SYSTEM CONSISTS OF SELF-ADHERING SHEETS OF WEATHER RESISTANT UV STABLE STUCCO-EMBOSSSED ALUMINUM SHEETS WITH A 10-YEAR WARRANTY. INSTALL AS PER THE MANUFACTURER REQUIREMENTS.
5. ALL OUTDOOR DUCTWORK SHALL BE INSULATED AS SPECIFIED.
6. RUN DUCTWORK AS HIGH AS POSSIBLE. COORDINATE IN FIELD WITH ACTUAL STEEL INSTALLATION.
7. MOUNT THE TOP EXHAUST AIR REGISTER AT 2 FEET ABOVE THE MEZZANINE FINISHED FLOOR.
8. ALL TRANSITION ELBOWS SHALL HAVE TRAILING EDGE TURNING VANES. ALL SQUARE ELBOWS TO HAVE SINGLE THICKNESS TURNING VANES.
9. PROVIDE FIRE DAMPERS IN ALL DUCTWORK PENETRATIONS THROUGH MEZZANINE FLOOR.
10. SECURE REFRIGERANT PIPING RISERS TO THE OUTER WALL OF THE BUTLER BUILDING IN A MANNER ACCEPTABLE TO THE MANUFACTURER OF THE STRUCTURE.
11. PENETRATE WALL OF BUTLER BUILDING WITH REFRIGERANT PIPING AND WATERPROOF IN A MANNER ACCEPTABLE TO THE MANUFACTURER OF THE STRUCTURE. SUCTION PIPING INSULATION SHALL RUN CONTINUOUS THROUGH WALL PENETRATION.
12. PENETRATE WALL OF BUTLER BUILDING WITH CONDENSATE DRAIN PIPING AND WATERPROOF IN A MANNER ACCEPTABLE TO THE MANUFACTURER OF THE STRUCTURE. CONDENSATE PIPING INSULATION SHALL RUN CONTINUOUS THROUGH WALL PENETRATION. SECURE CONDENSATE DRAIN PIPING RISER TO THE OUTER WALL OF THE BUTLER BUILDING IN A MANNER ACCEPTABLE TO THE MANUFACTURER OF THE STRUCTURE. TERMINATE CONDENSATE LINE AT 1'- 0" ABOVE THE FINISHED GRADE. TERMINATE CONDENSATE LINE SO AS NOT TO DRAIN ON TO THE CONDENSING UNIT CONCRETE PAD.
13. CONDENSATE LINE TO PITCH IN DIRECTION OF FLOW. CONDENSATE LINE TO BE CPVC SCHEDULE 80 OR TYPE M COPPER. SUPPORT CONDENSATE LINE AT 4'-0" INTERVALS.
14. REFRIGERANT SUCTION LINE TO PITCH IN DIRECTION OF FLOW. REFRIGERANT LINE TO BE TYPE 'L' COPPER. SUPPORT SUCTION LINE AND LIQUID LINE AT 4'-0" INTERVALS.
15. PROVIDE A PENN VENTILATION CO. INC. LOUVER, MODEL M48, 12"1/2 x 24"1/2 x 4"D, WITH BIRD SCREEN, DRAINABLE, 45 DEGREE, ALUMINUM (0.125" THICKNESS), 4" BLADE SPACING, AMCA CERTIFIED, WITH MOTORIZED DAMPER.
16. MOUNT HORIZONTAL UNIT ON EQUIPMENT SUPPORTS. PROVIDE 18" MINIMUM BETWEEN BOTTOM OF UNIT AND FINISHED FLOOR OF MEZZANINE. PROVIDE VIBRATION ISOLATION BETWEEN UNIT AND EQUIPMENT SUPPORTS. ANCHOR EQUIPMENT SUPPORT TO MEZZANINE FLOOR. SECURE VIBRATION ISOLATION TO UNIT AND EQUIPMENT SUPPORTS.
17. PROVIDE 'B' VENT FROM UNIT UP THROUGH ROOF. TERMINATE VENT 3'- 0" ABOVE ROOFLINE. PROVIDE VENT CAP FOR TERMINATION. ROOF PENETRATION FOR VENT SHALL BE MADE AS PER RECOMMENDATIONS OF THE BUILDING MANUFACTURER AND AS PER RECOMMENDATIONS OF THE EQUIPMENT MANUFACTURER. ADHERE TO THE CODE REQUIREMENTS OF THE LOCAL AUTHORITIES THAT HAVE JURISDICTION (FIRE MARSHAL, BUILDING DEPT., ETC.).
18. ALL DUCTWORK CONNECTIONS TO EACH AHU SHALL BE WITH INSULATED FLEXIBLE DUCT CONNECTORS SIMILAR TO DURO-DINE INSULFLEX.
19. GRV-1&2 SHALL HAVE THE SAME EXHAUST AIR PLENUM AS EF-2. SEE DETAIL M-6.
20. MOUNT VEHICLE EXHAUST AT 10'-0" ABOVE THE FINISHED FLOOR. PROVIDE SUPPORTING STEEL PLATFORM. EXACT LOCATION TO BE DETERMINED BY OWNER.



MEZZANINE FLOOR PLAN
SCALE: 1/8" = 1'-0"

H2M GROUP
HOLZMACHER, McLENDON & MURRELL, P.C.
575 Broad Hollow Road, Melville, New York 11747

ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS

E-mail: h2m@h2m.com
www.h2m.com

MELVILLE, N.Y.
631-756-8000
TOWSON, NJ
973-942-0700

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TOWN OF RIVERHEAD

ADDITION AND
ALTERATION TO
MECHANICS
MAINTENANCE FACILITY

OLD COUNTRY ROAD
RIVERHEAD, NY

CONTRACT

MARK DATE DESCRIPTION

ISSUE:

PROJECT NO: RVT 00-07
DATE: AUGUST 2001
CAD DWG FILE: M-HVAC-4-ROOFLINE
XREF DWG FILE: Municipal Garage Bldg/Xrefs/AR_FP.DWG
SCALE: AS SHOWNRMS
FILE LOCATION:
DESIGNED BY: RAL
DRAWN BY: DP
CHECKED BY:
REVIEWED BY:

SHEET TITLE

MEZZANINE FLOOR
PLAN

SHEET NUMBER

M2

H:\load\RVV\0007\Municipal Garage\Const\W-hvac-schedule 2.dwg Last Modified: Aug 23, 2001 - 5:53pm Plotted on: Aug 27, 2001 - 9:44am By: JLM

ROOF TOP UNIT SCHEDULE

UNIT I.D.	SERVICE	LENNOX MODEL NO.	O.A. CFM	SUPPLY AIR FAN					FILTERS		HEATING						DX COIL						COMPRESSORS				CONDENSER						ELECTRICAL			OPERT. WT. LBS.	REMARKS	
				CFM	ESP W.C.	No./ DIA.X W	RPM	BHP	HP	EFF.	No./SIZE	EAT DB/WB	NAT. GAS INPUT CFH	OUTPUT LOW/HIGH	% EFF AGA	TEMP RISE °F	GAS PRES. W.C.	EAT DB/WB	O.A.T. DB/WB	NET MBH	SEN MBH	F.A. SQ. FT.	ROWS/FP	SUCT °F	R.L.A EACH	EER	QUANT.	CFM	RPM	FAN NO. /SIZE	H.P. EACH	F.A. SQ. FT.	ROWS /FPI	VOLT/ PH.	MCA AMPS			MAX FUSE
RTU-1	GARAGE	LGA 300H	1600	8000	1.5	2/18X15	896	5.25	7.5	60%	12/20X20X2	61	306/470	244/376	80	43	7	76/64	95/76	284	200	33.5	2/14	40	18.6	10.0	4	21500	1075	6/24	1/3	70.6	2/16	208/3	119	125	3683	1 TO 17
MAU-1	WELDING R.	PCDA-298-500	4000	4000	1	-	1050	2.7	-	60%	-	-	-	-	-	-	-	94/76	94/76	312	178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3730	1 TO 11, 15 TO 39	

D

1. PROVIDE SMOKE DETECTOR IN SUPPLY AIR FROM UNIT.
2. ALL THREE (3) PHASE MOTOR LEGS ARE TO BE WIRED FOR INDIVIDUAL PHASE PROTECTION. THERE SHALL BE A PHASE FAILURE CONTROL INSTALLED NEXT TO THE MOTOR STARTER.
3. PROVIDE ELECTRONIC PROGRAMMABLE TEMPERATURE CONTROL, WITH COMPRESSOR CYCLE DELAY CONTROL.
4. PROVIDE HORIZONTAL RETURN AIR PANEL.
5. PROVIDE CONDENSER COIL GUARD GRILLE.
6. PROVIDE FAN AND FILTER STATUS SWITCHES.
7. PROVIDE DEHUMIDIFICATION PACKAGE.
8. PROVIDE HUMIDITY CONTROL.
9. PROVIDE SOLID-STATE ENTHALPY CONTROL.
10. PROVIDE ECONOMISER CYCLE.
11. PROVIDE OUTDOOR AIR AND RETURN AIR ENTHALPY SENSORS FOR DIFFERENTIAL SENSING.
12. PROVIDE FIELD INSTALLED POWER EXHAUST
13. PROVIDE SPRING RETURN FOR POWER FAILURE CLOSURE ON ECONOMISER MOTOR.
14. PROVIDE 30" HIGH HORIZONTAL INSULATED SLAB MOUNTING FRAME WITH BUILT IN SUPPLY AIR DUCTWORK.
15. PROVIDE CONDENSATE TRAP & DRAIN.
16. 5 YEAR COMPRESSOR WARRANTY
17. 10 YEAR HEAT EXCHANGE WARRANTY
18. PROVIDE 30 IN HORIZONTAL INSULATED SLAB MOUNTING FRAME WITH BUILT-IN RETURN AIR DUCTWORK
19. 409 STAINLESS STEEL HEAT EXCHANGER
20. 409 STAINLESS STEEL BURNERS
21. ELEC. MODULATION (MUA) W/ REMOTE SELECT AND READ OUT OPTIONS
22. IEG MOTOR STARTER
23. MOT. O/A. R/A DAMPERS W/ POTENT.
24. 100% O/A RAIN BAFFLED INTAKE HOOD
25. FILTER RACK W/ 2' PLEATED FILTERS
26. CABINET INSULATION, SINGLE WALL
27. 409 STAINLESS STEEL BOTTOM PAN.
28. RELAYS FOR CONTROLS AND VOC INTERFACE.
29. ELECTRONIC 20 TO 100% OF FIRING RATE
30. OUTDOOR 240V, 100A FUSIBLE DISCONNECT
31. HEAT/COOL REMCON, FILTER LT, ON/OFF SW
32. 24 VOLT CONTROLS
33. HEAT/VENT/COOL SWITCH
34. COOLING ZONE SENSOR AND HEATING THERMOSTAT
35. ROOM RELATIVE HUMIDITY SENSOR
36. DEHUMIDIFIER TEMPERATURE OVERRIDE
37. REMOTELY LOCATED CONTROL AND INDICATOR LIGHT CONSOLE
38. GAS SUPPLY PRESSURE REGULATIONS AND SAFETY SWITCHES
39. FREEZE PREVENTION PACKAGE

FAN SCHEDULE

UNIT I.D.	SERVICE	MANUFACTURER & MODEL NO.	CFM	ESP H ₂ O	T.S.	FAN OV F.P.M.	FAN R.P.M.	OPER. WT.	SONES	H.P.	DAMPER SIZE	ROOF/WALL OPENING	ELECTRICAL DATA	MOTOR RPM	REMARKS
EF-1&2	WELDING BAY & MAIN BAY	GREENHECK CUBE - 180 - 10	4000	0.50	5740	1370	1185	-	16.5	1	18" x 18"	20-1/2 x 20-1/2	200V/3ø/60	1725	1 TO 9
VE-1 TO 3	GARAGE	VENTAIR PW9-1	405	-	-	-	-	-	-	1/3	-	-	115V/1ø/60	-	10 TO 20
TX-1&2	BATHROOMS	GREENHECK SP-218	130	0.375	-	-	1400	15	3.4	1.3 AMPS	-	-	115V/1ø/60	-	21

C

1. PROVIDE MANUAL STARTER SWITCH WITH PILOT LIGHT & FACE PLATE.
2. PROVIDE MOTORIZED DAMPER AND DAMPER TRAY.
3. PROVIDE OPEN DRIP PROOF MOTOR
4. PROVIDE SAFETY DISCONNECT SWITCH. FACTORY WIRED TO THE MOTOR
5. PROVIDE 12" HIGH ALUMINUM PREFABRICATED CURB INSULATED-MODEL FOR PITCHED STEEL CORRIGATED ROOF CONSTRUCTION.
6. PROVIDE CURB GASKETING.
7. PROVIDE HINGE KIT WITH HOLD OPEN CABLES.
8. PROVIDE SINGLE POINT DRAIN CONNECTION
9. PROVIDE BIRDSCREEN (ALUMINUM RIGID)
10.(QTY-3) HRA-40 AUTOMATIC HOSE REEL - 4" DIA X 35' MAX CAPACITY
11. (QTY-12) RIS VIBRATION ISOLATORS
12.(QTY-3) FRM-FAN TO REEL MOUNT
13.(QTY-3) S67-425 HIGH TEMP. FLEX, 4" DIA X 25', SILICONE CONSTRUCTION W/ EXTERNAL STEEL HELIX, RATED TO 625F
14.(QTY-1) S67-420 HIGH TEMP. FLEX, 4" DIA X 25', SILICONE CONSTRUCTION W/ EXTERNAL STEEL HELIX, RATED TO 625F
- 15.(QTY-3) FS40-S.S. FEMALE QUICK DISCONNECT - 4"
16.(QTY-4) TS60X24-S.S TAILPIPE ADAPTER W/ CLIP - 4"
17.(QTY-3) MS40 S.S. MALE QUICK DISCONNECT - 4', MOUNTED DIRECTLY ON THE TS40
18.(QTY-1) MS40 S.S. MALE QUICK DISCONNECT -4"
19. (QTY-8) BC40 BRIDGE HOSE CLAMP
20. PROVIDE TIME DELAY SWITCH MODEL GTD, HOODED WALL CAP MODEL WC, ROUND DUCT CONNECTOR MODEL RDC, AND HANGING VIBRATION ISOLATOR KIT.

CONDENSING UNIT SCHEDULE

UNIT ID	LENNOX MODEL NO.	NOM. TONS COOLING	COMPRESSOR(S)			FAN(S)			MAX FUSE SIZE (HACR) A	POWER V/ø	MINIMUM AMPACITY	EER SEER	REFRIG. CONNECTIONS		O.A.T. °F	OPER. WEIGHT LBS.	SOUND PRESS. LEVEL db (A)	REMARKS
			QTY.	LRA EACH	HP EACH	QTY.	RLA EACH	HP EACH					LIQUID	SUCTION				
CU-1	HS29-036	3	1	10.3	-	1	-	-	20	208/3	14	9.6 10	3/8"	3/4"	95	155	78	1 TO 9
CU-2	HS29-018	1.5	1	7.9	-	1	-	-	15	208/1	11	10.4 11.2	5/16"	5/8"	95	140	78	1 TO 9

B

GAS FIRED UNIT HEATER SCHEDULE

I.D.	LOCATION	REZNOR - MODEL No.	MBH INPUT	MBH OUTPUT	AIR INLET DIA.	FLUE OUTLET DIA.	MOUNTING HT. FT.	H.P.	R.P.M.	FAN DIA.	CFM	OPER. WT. LBS.	ELECTRICAL		REMARKS
													FLA SIZE	VOLT/ø/N	
UH-1&2	STORAGE AREA	SFT-75	75	60	4	5	8	1/20	1050	16	1120	120	4.7	115/1/60	1 TO 5, 7 TO 13
UH-3&4	GARAGE	FE-165	165	132	-	5	16	1/8	1050	16	2200	154	5.9	115/1/60	1 TO 4, 6, 8, 9, 11, 12 TO 20

1. NATURAL GAS
2. GAS CONNECTION - 1/2"
3. 24 VOLT CONTROLS
4. TUBULAR ALUMINIZED STEEL HEAT EXCHANGER
5. IC BOARD W/LED DIAGNOSTIC INDICATOR LIGHT
6. PROVIDE DOWNTURN NOZZLES.
7. PROVIDE HORIZONTAL INLET AIR/VENT TERMINAL KIT.
8. PROVIDE TWO STAGE THERMOSTAT
9. PROVIDE MANUAL GAS COCK.
10. SEPARATED - COMBUSTION UNIT HEATER
11. PROVIDE TWO STAGE GAS VALVE.
12. PROVIDE 9 YEAR NON-PRORATED WARRANTY ON HEAT EXCHANGER, BURNERS AND FLUE COLLECTION BOX ASSEMBLY.
13. PROVIDE 4 YEAR NON-PRORATED WARRANTY ON ELECTRICAL & MECHANICAL OPERATING COMPONENTS.
14. ENCLOSED MOTOR.
15. E-3 STAINLESS HEAT EXCHANGER
16. 50-90 TURN DOWN NOZZLE WITH VERTICAL LOUVER
17. MANGER/ SUSPENSION KIT
18. THERMOSTAT RELAY KIT
19. VENT CAP
20. BURNER AIR SHUTTERS

AIR CONDITIONER - SPLIT SYSTEM SCHEDULE

SUPPLY AIR BLOWER											DX COIL						NATURAL GAS BURNER					
UNIT NO.	LOCATION	AREA SERVED	LENNOX MODEL NO.	FAN DATA					MOTOR DATA		CFM	E.A.T. DB/WB F°	TOTAL MBH	SENS. MBH	L.A.T. DB/WB (F°)	MODEL	INPUT MBH	OUTPUT MBH	FLUE SIZE INCHES	E.A.T. (F°)	REMARKS	
				OUTLET VELOCITY (FFM)	FAN SIZE	CFM	MIN. O.A. CFM	EXT. SP. (IN. WC)	RPM	HP												VOLTS/PH
AHU-1	MEZZANINE	LUNCH ROOM	640UH-36A-070	-	-	890	200	0.8	-	.334	120V/1	890	76.6/63.7	33.7	24.5	51.1/50.6	CH33-36A-2F	66	54.1	4	61.4	1 TO 4
AHU-2	MEZZANINE	OFFICE	640UH-24A-045	-	-	544	100	0.5	-	.2	120V/1	544	80/67	18.82	13.128	57.7/56.1	CH33-24/30A-2F	44	36	4	60.5	1 TO 4

1. PROVIDE UNITS MOUNTED ON CHANNELS
2. CONDENSATE DRAIN- 3/4"
3. THERMOEXPANSION VALVE KIT
4. FILTER RACKS FOR OUTDOOR AIR AND RETURN AIR.

ROOF TOP UNIT SCHEDULE (CONT'D)



HOLZMACHER, McLENDON & MURRELL, P.C.
575 Broad Hollow Road, Melville, New York 11747

ENGINEERS ▸ ARCHITECTS ▸ PLANNERS ▸ SCIENTISTS ▸ SURVEYORS

E-mail: h2m@h2m.com
www.h2m.com

MELVILLE, N.Y. ■

TOTOWA, N.J. □

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TOWN OF RIVERHEAD

ADDITION AND
ALTERATION TO
MECHANICS
MAINTENANCE FACILITY

OLD COUNTRY ROAD
RIVERHEAD, NY

CONTRACT

B

MARK DATE DESCRIPTION

ISSUE:
PROJECT NO: RIVT 00-07
DATE: AUGUST 2001
CAD DWG FILE: M-HVAC-SCHEDULE 2
XREF DWG FILE:
SCALE: AS SHOWN
FILE LOCATION:
DESIGNED BY: RAL
DRAWN BY: DP
CHECKED BY:
REVIEWED BY:

SHEET TITLE

SCHEDULES, LEGEND
AND ABBREVIATIONS

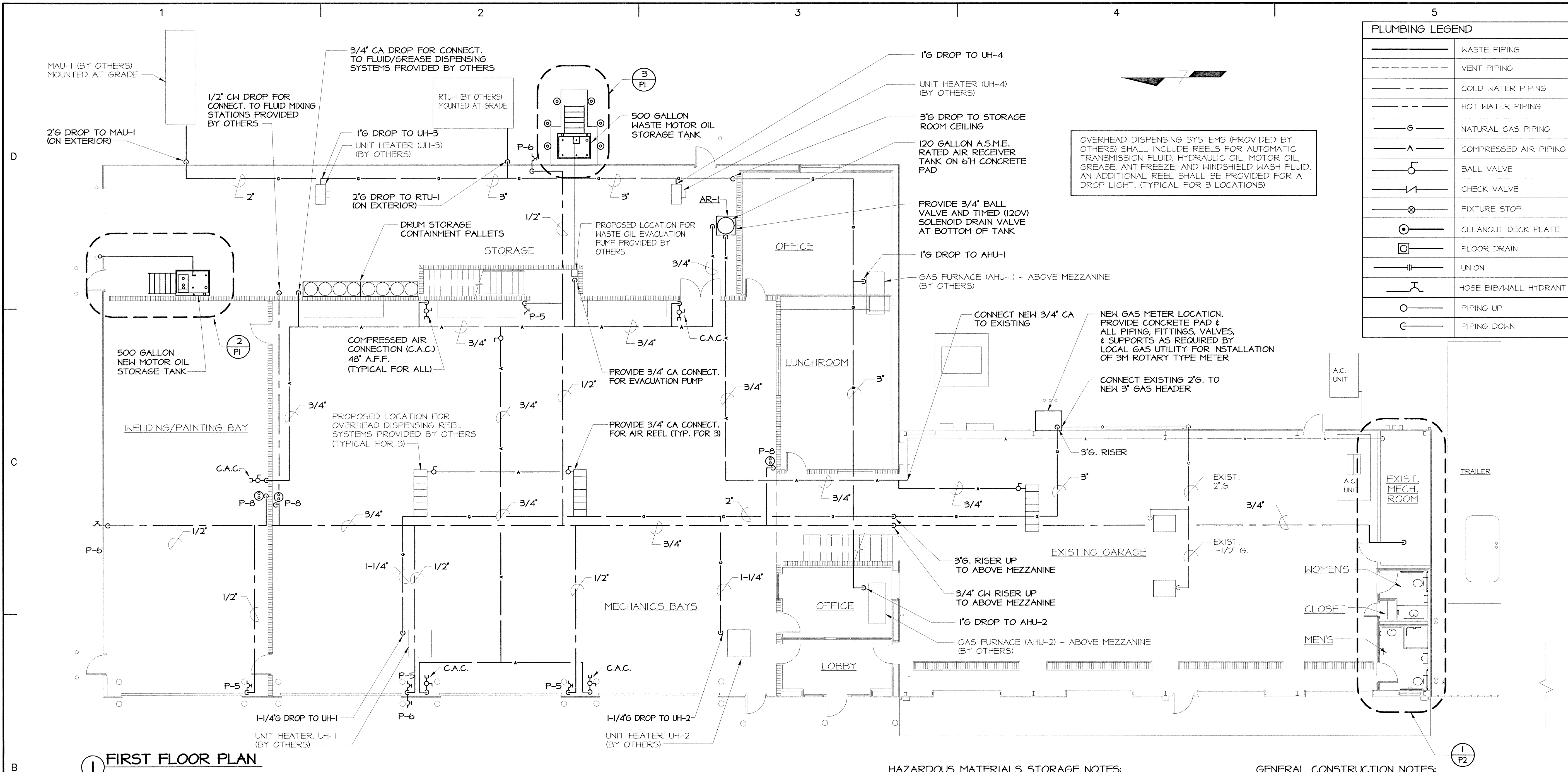
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M3

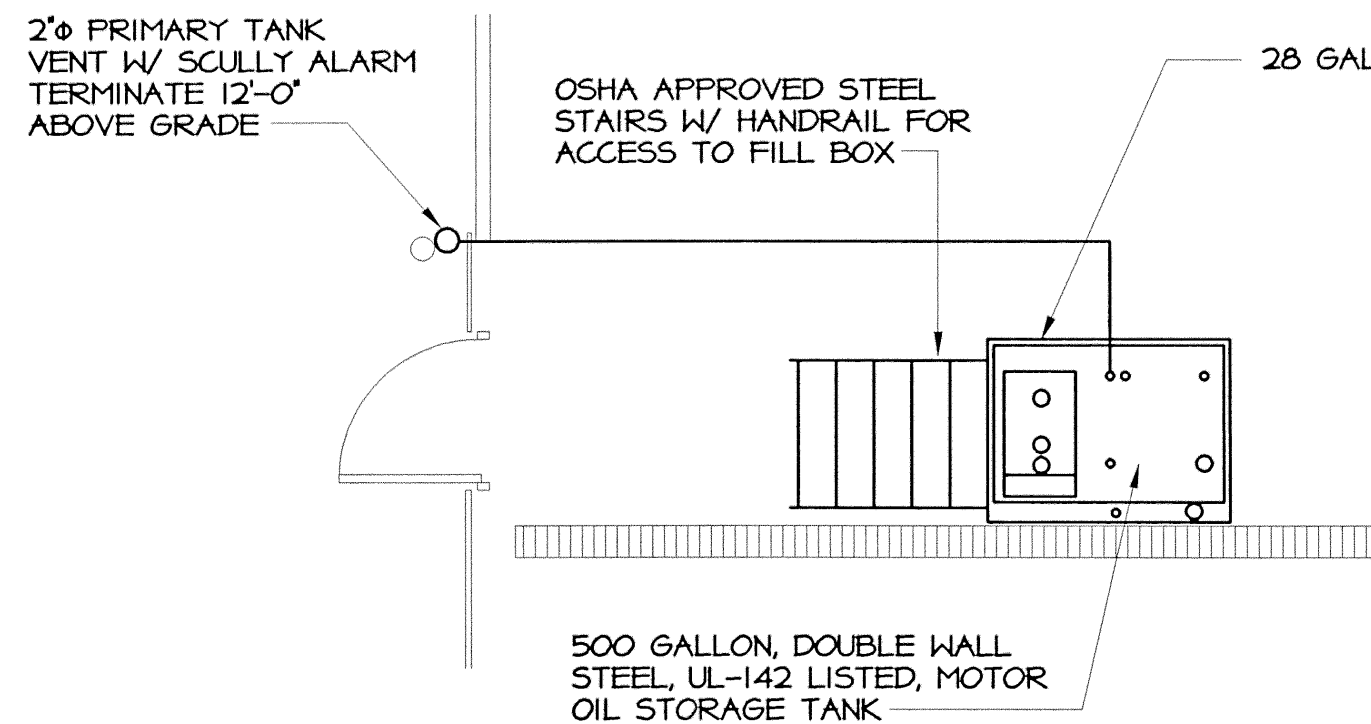
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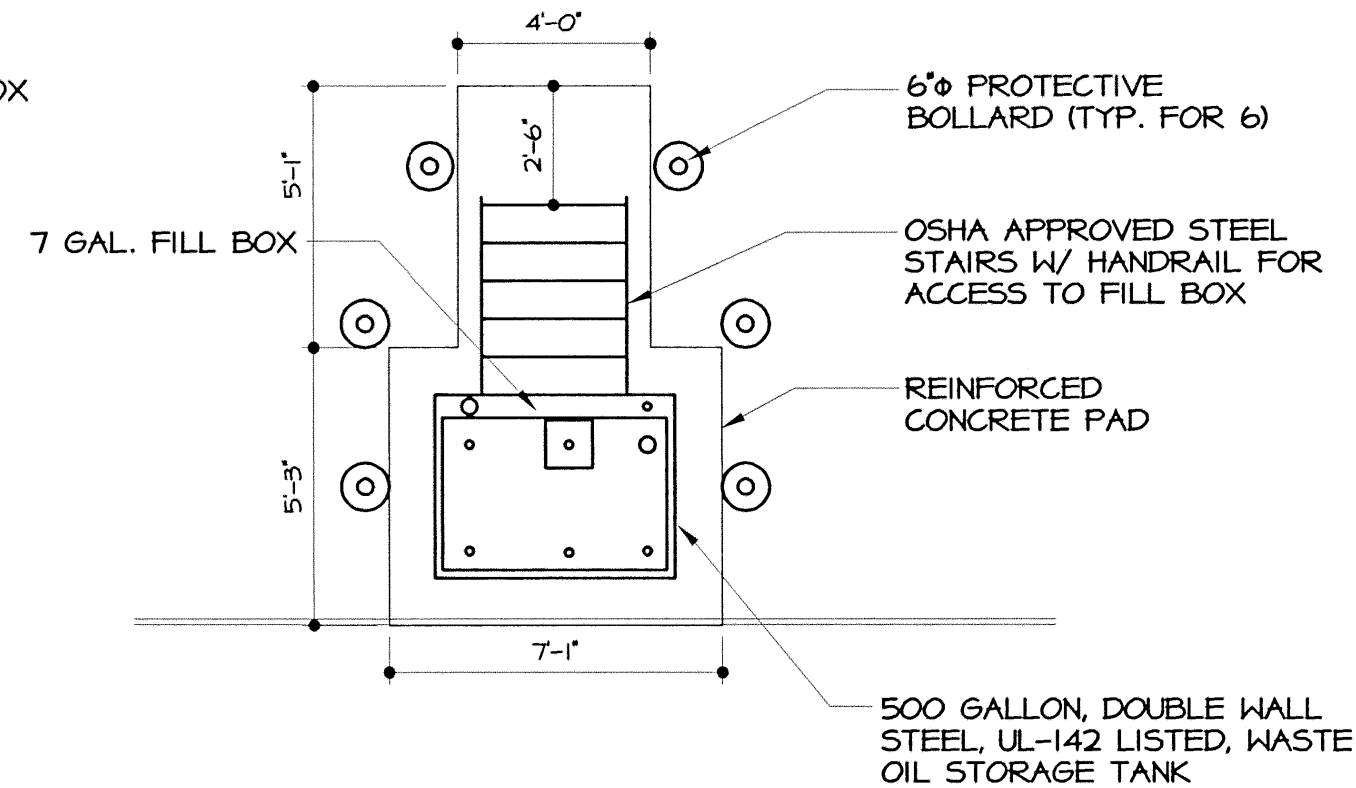
\\A:\add\NVT\0007\Municipal Garage\Cons\PL_F1.Dwg Last Modified: Aug 27, 2001 - 10:15am Plotted on Aug 27, 2001 - 10:33am By JLM



1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 ENLARGED MOTOR OIL STORAGE TANK PLAN
SCALE: 1/4" = 1'-0"



3 ENLARGED WASTE OIL STORAGE TANK PLAN
SCALE: 1/4" = 1'-0"

HAZARDOUS MATERIALS STORAGE NOTES:

- CONTRACTOR SHALL FURNISH TANKS AND EQUIPMENT NECESSARY TO INSTALL, TEST, AND MAKE READY FOR OPERATION (2) ABOVEGROUND, 500 GALLON, RECTANGULAR STEEL DOUBLE WALL STORAGE TANKS AS SPECIFIED. TANKS SHALL MEET REQUIREMENTS OF THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES (SCDHS) AND SHALL BE AS MANUFACTURED BY CONTAINMENT SOLUTIONS INC., "LUBE CUBE", OR APPROVED EQUAL.
- WASTE OIL STORAGE TANK SHALL BE SCDHS GENERIC MODEL#SUF500MO. MOTOR OIL STORAGE TANK SHALL BE SCDHS GENERIC MODEL#SUF500MO.
- A PRESSURE TEST SHALL BE PERFORMED ON THE TANKS PRIOR TO THE INSTALLATION TO VERIFY TANK STRUCTURE AND INTEGRITY OF PIPE FITTINGS. A PRESSURE TEST OF 5 PSI SHALL BE PERFORMED ON THE PRIMARY TANK AND 2.5 PSI ON THE SECONDARY CONTAINMENT. TESTING SHALL BE WITNESSED BY THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES.
- WASTE OIL TANK SHALL BE EQUIPPED WITH A 7 GALLON FILL BOX WITH LOCKABLE LID AND 4" OVERFLOW, 4" FILL AND 4" EMERGENCY VENT; A 4" OPW-202 PRIMARY EMERGENCY VENT; A 4" OPW-202 SECONDARY EMERGENCY VENT; A 2" GALVANIZED RISER - UPFLOW VENT; A SCULLY LEVEL GAUGE; A 2" SECONDARY MUSHROOM VENT; AND A 1-1/2" PUMP-OUT TUBE WITH CAMLOCK.
- MOTOR OIL TANK SHALL BE EQUIPPED WITH A 28 GALLON FILL BOX WITH LOCKABLE LID AND 4" OVERFLOW, 4" FILL AND 4" EMERGENCY VENT; A 4" OPW-202 PRIMARY EMERGENCY VENT; A 4" OPW-202 SECONDARY EMERGENCY VENT; A 2" GALVANIZED RISER - UPFLOW VENT TERMINATED 12' ABOVE GRADE; A SCULLY LEVEL GAUGE; A 2" SECONDARY MUSHROOM VENT; A 2" GUILLOTINE FILL LIMITER VALVE WITH ADAPTER; AND SCULLY VENT ALARM.
- PROVIDE (2) STEEL DRUM CONTAINMENT PALLETS FOR STORAGE OF UP TO EIGHT (8) 55 GALLON DRUMS. STEEL CONTAINMENT PALLET SHALL BE MODEL P54 AS MANUFACTURED BY CARLISLE BUILDING SYSTEMS, OR APPROVED EQUAL. EACH PALLET SHALL BE 104"x26"x16.5". CONSTRUCTED OF 10 GAUGE STEEL AND ASTM-A500 TUBE STEEL WITH GALVANIZED STEEL FLOOR GRATING, CHEMICAL RESISTANT EPOXY COATED SURFACES, AND A TOTAL SUMP CAPACITY OF 142 GALLONS. PRODUCTS TO BE STORED: AUTOMATIC TRANSMISSION FLUID, HYDRAULIC FLUID, AND ANTIFREEZE.

GENERAL CONSTRUCTION NOTES:

- EXCAVATE, BACKFILL & COMPACT AS NECESSARY FOR INSTALLATION OF NEW PIPING & FLOOR DRAINS. CONTRACT 'G' SHALL SAWCUT, REMOVE AND THEN RESTORE CONCRETE SLAB.
- PROVIDE SHUT-OFF BALL VALVES AND QUICK CONNECT COUPLERS AT EACH COMPRESSED AIR CONNECTION LOCATION. WHERE COMPRESSED AIR PIPING IS SHOWN TO BE CONNECTED TO FUTURE EQUIPMENT, PROVIDE SHUT-OFF BALL VALVES AND CAP PIPING.
- ALL NEW PLUMBING WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE PLUMBING CODE AND LOCAL AUTHORITIES AND AGENCIES HAVING JURISDICTION.
- BEFORE SUBMITTING PROPOSAL, BIDDERS SHALL CAREFULLY EXAMINE EXISTING FIELD CONDITIONS AND CONTRACT DRAWINGS OF ALL TRADES. SUBMISSION OF PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT REQUIRED EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT, AND MATERIALS DUE TO EXISTING FIELD CONDITIONS, WHICH COULD HAVE BEEN FORESEEN, WILL NOT BE RECOGNIZED.
- ALL EXISTING PIPING IS SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR TO VERIFY IN FIELD ALL SIZES, LOCATIONS, AND ELEVATIONS OF ALL NEW CONNECTION POINTS TO EXISTING PIPING.
- PROVIDE AT NO EXTRA COST, ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID EXISTING/NEW STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES. COORDINATE WORK WITH OTHER TRADES.
- ALL NEW PIPING SHALL BE RUN CLOSE TO BEAMS, WALLS, AND SLABS; SQUARE TO BUILDING CONSTRUCTION, CONCEALED ABOVE HUNG CEILINGS AND WITHIN FURRED SPACES.
- THE CONTRACTOR SHALL NOT INTERRUPT ANY OF THE SERVICES OF THE EXISTING BUILDING WITHOUT THE PERMISSION OF THE OWNER. SUCH INTERRUPTIONS SHALL BE AS BRIEF AS POSSIBLE AND AT THE TIME AGREED TO WITH THE OWNER.
- UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP EXCEPT FOR THOSE AREAS DESIGNATED BY THE OWNER.

PLUMBING LEGEND	
	WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	NATURAL GAS PIPING
	COMPRESSED AIR PIPING
	BALL VALVE
	CHECK VALVE
	FIXTURE STOP
	CLEANOUT DECK PLATE
	FLOOR DRAIN
	UNION
	HOSE BIB/WALL HYDRANT
	PIPING UP
	PIPING DOWN

H2M GROUP
HOLZMACHER, McLENDON & MURRELL, P.C.
575 Broad Hollow Road, Melville, New York 11747

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E-mail: h2m@h2m.com
www.h2m.com

MELVILLE, N.Y.
(516) 776-8000
TOTOVA, N.J.
(973) 942-0700

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TOWN OF RIVERHEAD

ADDITION AND
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MECHANICS
MAINTENANCE FACILITY

OLD COUNTRY ROAD
RIVERHEAD, NY

CONTRACT

CONTRACT 'P'
PLUMBING WORK

MARK	DATE	DESCRIPTION
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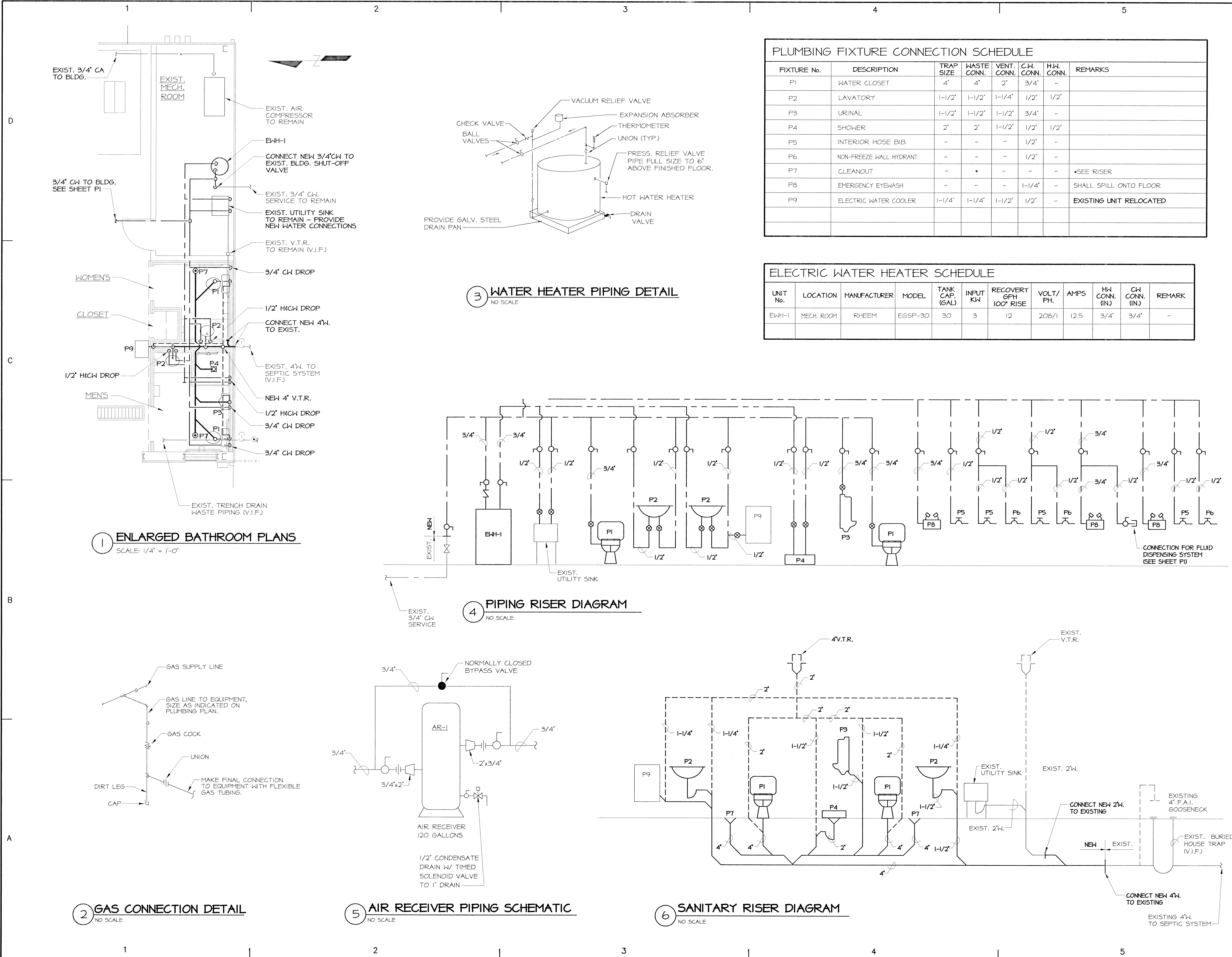
ISSUE:
PROJECT NO: RVT 00-07
DATE: AUGUST 2001
CAD DWG FILE: PL_FP.DWG
XREF DWG FILE: Municipal Garage Bldg/Xrefs/XR_FP.DWG
SCALE: AS SHOWN
FILE LOCATION:
DESIGNED BY: JM
DRAWN BY: JM
CHECKED BY:
REVIEWED BY:

SHEET TITLE

PLUMBING
FLOOR PLAN

SHEET NUMBER

P1



PLUMBING FIXTURE CONNECTION SCHEDULE							
FIXTURE No.	DESCRIPTION	TRAP SIZE	WASTE CONN.	VENT. CONN.	C.W. CONN.	H.W. CONN.	REMARKS
P1	WATER CLOSET	4"	4"	2"	3/4"	-	
P2	LAVATORY	1-1/2"	1-1/2"	1-1/4"	1/2"	1/2"	
P3	URINAL	1-1/2"	1-1/2"	1-1/2"	3/4"	-	
P4	SHOWER	2"	2"	1-1/2"	1/2"	1/2"	
P5	INTERIOR HOSE BIB	-	-	-	1/2"	-	
P6	NON-FREEZE WALL HYDRANT	-	-	-	1/2"	-	
P7	CLEANOUT	-	*	-	-	-	*SEE RISER
P8	EMERGENCY EYEWASH	-	-	-	1-1/4"	-	SHALL SPILL ONTO FLOOR
P9	ELECTRIC WATER COOLER	1-1/4"	1-1/4"	1-1/2"	1/2"	-	EXISTING UNIT RELOCATED

ELECTRIC WATER HEATER SCHEDULE											
UNIT No.	LOCATION	MANUFACTURER	MODEL	TANK CAP. (GAL)	INPUT KW	RECOVERY GPH 100° RISE	VOLT/ PH.	AMPS	HW CONN. (IN.)	CW CONN. (IN.)	REMARK
EW-H-1	MECH. ROOM	RHEEM	EGSP-30	30	3	12	208/1	12.5	3/4"	3/4"	-

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ENGINEERS ▸ ARCHITECTS ▸ PLANNERS ▸ SCIENTISTS ▸ SURVEYORS
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www.h2m.com

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MAINTENANCE FACILITY

OLD COUNTRY ROAD
RIVERHEAD, NY

CONTRACT

CONTRACT 'P'
PLUMBING WORK

MARK	DATE	DESCRIPTION
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ISSUE:
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SHEET TITLE

PLUMBING
RISER DIAGRAMS

SHEET NUMBER

P2

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OLD COUNTRY ROAD
RIVERHEAD, NY

CONTRACT

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ISSUE:		
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SCALE:	AS SHOWN	
FILE LOCATION:		
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DRAWN BY:	MAB	
CHECKED BY:		
REVIEWED BY:		

SHEET TITLE

ELECTRICAL LEGENDS

SHEET NUMBER

E1

ELECTRICAL LEGEND						SINGLE LINE DIAGRAM LEGEND			LIST OF DRAWINGS	
SYMBOL	DESCRIPTION	COMMENTS	SYMBOL	DESCRIPTION	COMMENTS	SYMBOL	DESCRIPTION	COMMENTS	CONTRACT NO. RIVT 00-07 ELECTRICAL WORK	
S ₃	THREE - WAY SWITCH	46" AFF TO CL UON	AFF	ABOVE FINISHED FLOOR	_____		LINE VOLTAGE THERMOSTAT 120V, 10A	_____	SHEET No. TITLE OF DRAWING	
S ₄	FOUR - WAY SWITCH	46" AFF TO CL UON	AFC	ABOVE FINISHED CEILING	_____		CIRCUIT BREAKER WITH TRIP & POLES AS NOTED	_____	E1	ELECTRICAL LEGENDS
S ₃	ILLUMINATED SWITCH	46" AFF TO CL UON	AFG	ABOVE FINISHED GRADE	_____		TRANSFER SWITCH TSI (SEE TRANSFER SWITCH SCHEDULE)	_____	E2	ELECTRICAL POWER PLAN
S ^A	SINGLE POLE SWITCH: "a" INDICATE SWITCH CONTROL	46" AFF TO CL UON	AMP, A	AMPERE	_____		DISTRIBUTION PANEL PI W/30A, 2 POLE M.C.B. (SEE DISTRIBUTION PANEL SCHEDULE)	_____	E3	ELECTRICAL LIGHTING PLAN
S ₀	SINGLE POLE DIMMER SWITCH	46" AFF TO CL UON	ATS	AUTOMATIC TRANSFER SWITCH (SEE TRANSFER SWITCH SCHEDULE)	_____		DISCONNECT SWITCH DS1, 100A, 2 POLE (SEE DISCONNECT SWITCH SCHEDULE)	_____	E4	ELECTRICAL HVAC PLAN
S ₀₃	THREE - WAY DIMMER SWITCH	46" AFF TO CL UON	AWG	AMERICAN WIRE GUAGE	_____		FUSED DISCONNECT SWITCH DS2, FUSED AT 40 AMPS, 3 POLES (SEE DISCONNECT SWITCH SCHEDULE)	_____	E5	ELECTRICAL FIRE ALARM PLAN
S _K	SINGLE POLE KEYED SWITCH	46" AFF TO CL UON	CL	CENTERLINE	_____		GENERATOR SET G1	_____	E6	ELECTRICAL SINGLE LINE DIAGRAMS
S _{K3}	KEYED THREE - WAY SWITCH	46" AFF TO CL UON	CT	COUNTER TOP	_____		ELECTRIC METER AND METER PAN AS PER LIPA REQUIREMENTS	_____	E7	ELECTRICAL SCHEDULES
S _{K4}	KEYED FOUR - WAY SWITCH	46" AFF TO CL UON	EC	RIGID GALVANIZED STEEL ELECTRICAL CONDUIT	_____		MOTOR, NUMBER INDICATES HORSEPOWER	_____	FIRE ALARM LEGEND	
S _M	SINGLE POLE SWITCH - 120V, 20A SINGLE POLE HORSEPOWER RATED SWITCH, 120V, 20A WITH INDICATOR SWITCH	46" AFF	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	_____		CURRENT TRANSFORMERS	_____		FIRE ALARM CONTROL PANEL
S _P	SINGLE POLE SWITCH AND PILOT LIGHT	_____	GFI	GROUND FAULT INDICATOR	_____		VOLTAGE TRANSFORMERS	_____		MANUAL PULL STATION
S _T	THREE POLE SWITCH W/ THERMAL OVERLOAD PROTECTION	_____	LIPA	LONG ISLAND POWER AUTHORITY (LOCAL ELECTRIC UTILITY)	_____		TRANSFORMER WITH SIZE, PRIMARY & SECONDARY VOLTAGES AS NOTED.	_____		SMOKE DETECTOR
	TIME CLOCK	_____	MCB	MAIN CIRCUIT BREAKER	_____		REDUCED VOLTAGE SOLID STATE RAMPING MODULE, SIZED FOR 10 H.P.	_____		PHOTOELECTRIC SMOKE DETECTOR
	PHOTOCELL	_____	MLO	MAIN LUGS ONLY	_____		REDUCED VOLTAGE SOLID STATE STARTER, SIZED FOR 150 H.P.	_____		IONIZATION SMOKE DETECTOR
	PUSH BUTTON	_____	UON	UNLESS OTHERWISE NOTED	_____		VARIABLE FREQUENCY DRIVE, RATED FOR 25 H.P.	_____		BEAM TYPE SMOKE DETECTOR: RECEIVER *
	EMERGENCY SHUT OFF SWITCH: "E" INDICATED ELECTRICAL: "G" INDICATES GAS	_____	UC	UNDER COUNTER	_____		FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 6.	_____		BEAM TYPE SMOKE DETECTOR: TRANSMITTER *
	OCCUPANCY SENSOR, CEILING MOUNT	_____	V	VOLT	_____		FULL VOLTAGE REVERSING STARTER, NEMA SIZE 5	_____		HEAT DETECTOR
	OCCUPANCY SENSOR POWER PACK, MOUNTED ABOVE CEILING	_____	VAC	VOLTS ALTERNATING CURRENT	_____		FAST ACTING SOLID STATE FUSES SIZED AS PER MANUFACTURER	_____		WEATHER PROOF HEAT DETECTOR
	OCCUPANCY SENSOR SWITCH, WALL MOUNT	_____	VDC	VOLTS DIRECT CURRENT	_____		MULTIPLE BRANCH CIRCUITS AS REQUIRED	_____		RATE ANTICIPATION HEAT/FIRE DETECTOR
	2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING	_____	XFMR	TRANSFORMER	_____		CONTROL CIRCUIT (MIN. 2 #12 AWG IN 3/4" E.C.)	_____		DUCT SMOKE DETECTOR
	5 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING	_____	WP	WEATHER PROOF	_____		LIPA TRANS-A METER CABINET	_____		REMOTE LED INDICATOR
	3 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN OR BELOW SLAB.	_____	SP	SPEAKER	_____	ELECTRICAL CONTROL LEGEND				
	DEDICATED HOMERUN TO PANEL LPI FOR CIRCUIT No. 35 ONLY. 2 #12 AWG + #12 AWG GND IN 3/4" E.C.	_____	T	TELEPHONE	_____	SYMBOL	DESCRIPTION	COMMENTS		SPRINKLER VALVE TAMPER SWITCH
	SIMPLEX RECEPTACLE, 120V, 20A.	18" AFF TO CL UON	TV	CABLE TV	_____		PUMP OR BLOWER MOTOR	_____		SHUTDOWN CONTROL MODULE
	DUPLEX RECEPTACLE, 120V, 20A.	18" AFF TO CL UON	D	DATA	_____		FLOW METER	_____		MONITOR MODULE
	QUAD RECEPTACLE, DOUBLE DUPLEX RECEPTACLE, 120V, 20A.	18" AFF TO CL UON	G	GAS DETECTION	_____		MOTOR CONTROLLED VALVE WITH LIMIT SWITCHES	_____		ISOLATOR MODULE
	DUPLEX RECEPTACLE, 120V, 20A: SUBLETTER "C" INDICATES CEILING MOUNT	FLUSH	SITE PLAN LEGEND (SIZE INDICATED ON PLANS)					_____		SIGNAL APPLIANCE SYNC MODULE
	DUPLEX RECEPTACLE, 120V, 20A: FLOOR MOUNTED.	FLUSH	=====	- CURB			LIMIT SWITCH	_____		REMOTE ANNUNCIATOR
	ISOLATED GROUND DUPLEX RECEPTACLE.	18" AFF TO CL UON	— G —	- EXISTING NATURAL GAS SERVICE			FLOW TRANSMITTER	_____	SMOKE DETECTOR WITH REMOTE LED INDICATOR MOUNT AFC UNLESS OTHERWISE NOTED	
	DUPLEX RECEPTACLE, 120V, 20A: WITH GROUND FAULT INDICATOR	18" AFF TO CL UON	— G —	- NEW NATURAL GAS SERVICE (CONTRACT 'G')			FLOW SWITCH	_____	* MOUNTING HEIGHT SHALL BE BETWEEN 18' AND 20' AFF UNLESS OTHERWISE NOTED	
	DUPLEX RECEPTACLE, 120V, 20A: SUBLETTER "UC" INDICATES UNDER COUNTER.	AS PER ENGINEER	— T —	- EXISTING TELEPHONE SERVICE			PRESSURE TRANSMITTER	_____		
	DUPLEX RECEPTACLE, 120V, 20A: SUBLETTER "CT" INDICATES COUNTER TOP.	AS PER ENGINEER	— T —	- NEW TELEPHONE SERVICE			PRESSURE SWITCH	_____		
	DUPLEX RECEPTACLE, 120V, 20A: SUBLETTER "WP" INDICATES WEATHER PROOF.	AFG TO CL UON	— E —	- EXISTING ELECTRIC LINES			LEVEL TRANSMITTER	_____		
	SPECIAL PURPOSE OUTLET, 240V, 40A. VERIFY NEMA CONFIGURATION W/ EQUIPMENT MANUFACTURER.	AS PER ENGINEER	— E —	- NEW ELECTRIC LINES			LEVEL ELECTRODES	_____		
	TWIST LOCK RECEPTACLE, 125V, 20A, 3 WIRE: UNLESS OTHERWISE NOTED.	AS PER ENGINEER	— PE —	- EXISTING PRIMARY ELECTRIC SERVICE			DIFFERENTIAL PRESSURE TRANSMITTER	_____		
	SURFACE RACEWAY WITH 2 GROUNDED + ISOLATED TYPE RECEPTACLES + 1 DATA OUTLET PER POSITION, 18" AFF UNLESS OTHERWISE NOTED.	_____	— PE —	- NEW PRIMARY ELECTRIC SERVICE			SOLENOID VALVE	_____		
	TELEPHONE/POWER POLE	_____	— O/H-ELEC. —	- EXISTING OVERHEAD ELECTRIC LINES			PITOT TUBE & AIR PRESSURE SWITCH	_____		
	MAGNETIC STARTER, SI: SEE STARTER SCHEDULE.	_____	— X —	- EXISTING FENCE			TELEPHONE LINE DISCONNECT SWITCH	_____		
	DISCONNECT SWITCH, DS1: SEE DISCONNECT SWITCH SCHEDULE.	_____	— X —	- NEW FENCE (CONTRACT 'G')			PROPORTIONAL- INTEGRAL-DERIVATIVE SINGLE LOOP CONTROLLER	_____		
	JUNCTION BOX.	_____		- NEW ELECTRIC PULL BOX			SIGNAL CONDITIONER TIME PULSE DURATION TO ANALOG	_____		
	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKETED COVER	_____								
	J. BOX RECESSED IN WALL W/BLANK COVER. PROVIDE 3/4" E.C. & DRAG LINE TO ABOVE CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED.	_____								
	FOR MONITOR, J. BOX RECESSED IN WALL W/ BLANK COVER PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE CEILING.	_____								
	TRANSFORMER TI, SEE TRANSFORMER SCHEDULE.	_____								
	ELECTRICAL PANEL PI, RECESSED: SEE PANEL SCHEDULES.	_____								
	ELECTRICAL PANEL PI, SURFACE: SEE PANEL SCHEDULES.	_____								
	CONDUIT GOING DOWN	_____								
	CONDUIT GOING UP	_____								
	PULL BOX	_____								
	TELEPHONE.	18" AFF TO CL UON								
	CABLE TV, PROVIDE 3/4" E.C. W/ DRAG LINE TO AFC & EMPTY BOX RECESSED IN WALL W/BLANK COVER.	_____								
	DATA, PROVIDE 3/4" E.C. W/ DRAG LINE TO AFC & EMPTY BOX RECESSED IN WALL W/BLANK COVER.	_____								
	COMBINED DATA AND TELEPHONE. PROVIDE 3/4" E.C. W/ DRAG LINE TO AFC & EMPTY BOX RECESSED IN WALL W/BLANK COVER.	_____								

SITE PLAN LEGEND (SIZE INDICATED ON PLANS)		
=====	- CURB	
— G —	- EXISTING NATURAL GAS SERVICE	
— G —	- NEW NATURAL GAS SERVICE (CONTRACT 'G')	
— T —	- EXISTING TELEPHONE SERVICE	
— T —	- NEW TELEPHONE SERVICE	
— E —	- EXISTING ELECTRIC LINES	
— E —	- NEW ELECTRIC LINES	
— PE —	- EXISTING PRIMARY ELECTRIC SERVICE	
— PE —	- NEW PRIMARY ELECTRIC SERVICE	
— O/H-ELEC. —	- EXISTING OVERHEAD ELECTRIC LINES	
— X —	- EXISTING FENCE	
— X —	- NEW FENCE (CONTRACT 'G')	
	- NEW ELECTRIC PULL BOX	

SYMBOL	DESCRIPTION	COMMENTS
	PUMP OR BLOWER MOTOR	
	FLOW METER	
	MOTOR CONTROLLED VALVE WITH LIMIT SWITCHES	
	LIMIT SWITCH	
	FLOW TRANSMITTER	
	FLOW SWITCH	
	PRESSURE TRANSMITTER	
	PRESSURE SWITCH	
	LEVEL TRANSMITTER	
	LEVEL ELECTRODES	
	DIFFERENTIAL PRESSURE TRANSMITTER	
	SOLENOID VALVE	
	PITOT TUBE & AIR PRESSURE SWITCH	
	TELEPHONE LINE DISCONNECT SWITCH	
	PROPORTIONAL- INTEGRAL-DERIVATIVE SINGLE LOOP CONTROLLER	
	SIGNAL CONDITIONER TIME PULSE DURATION TO ANALOG	

3

4

5

**ADDITION AND
ALTERATION TO
MECHANICS
MAINTENANCE FACILITY**

OLD COUNTRY ROAD
RIVERHEAD, NY

CONTRACT

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ISSUE:

PROJECT NO:	RIVT 00-07
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SHEET TITLE

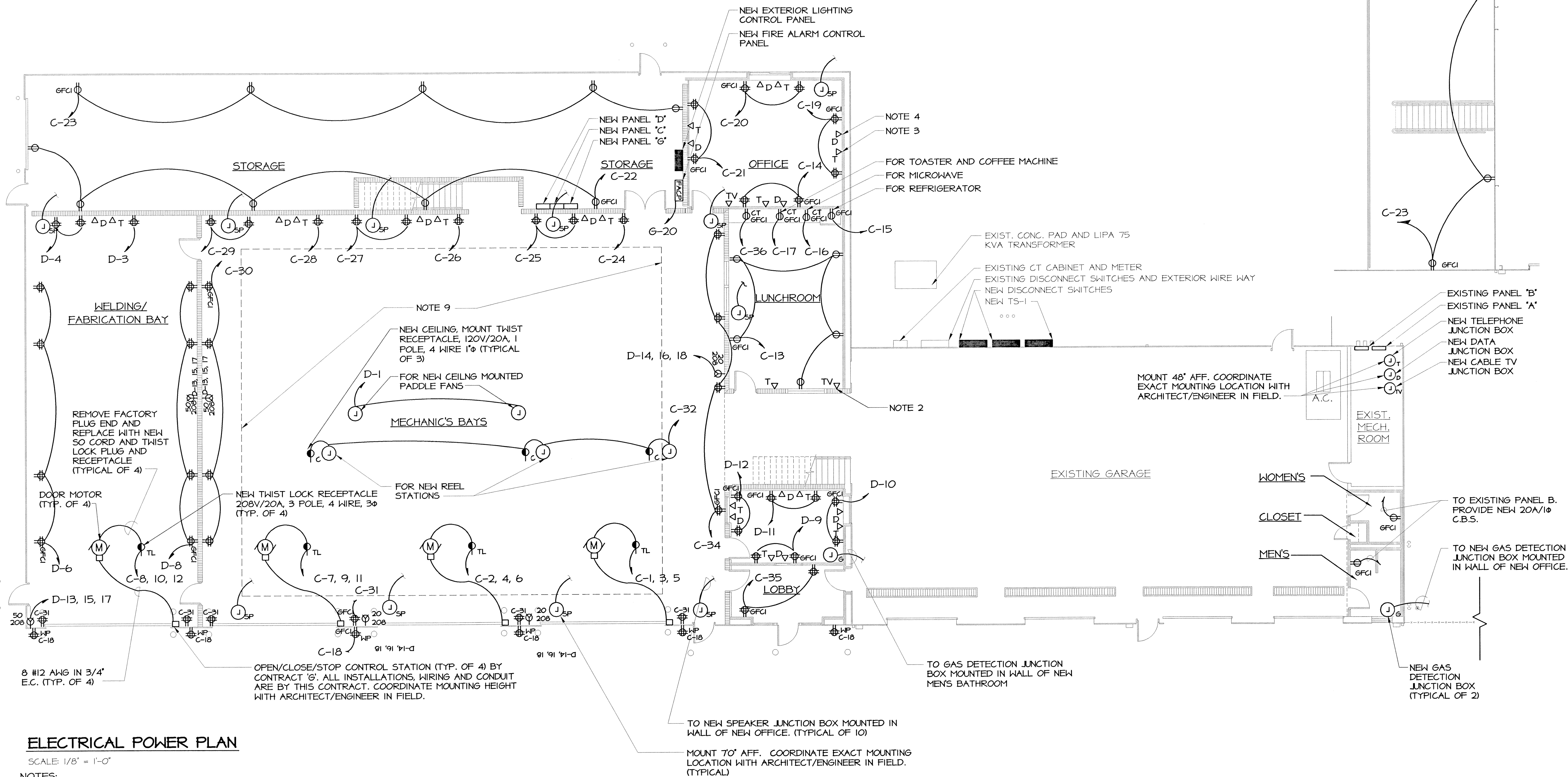
**ELECTRICAL
POWER PLAN**

SHEET NUMBER

E2

MEZZANINE ELECTRICAL POWER PLAN

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



ELECTRICAL POWER PLAN

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

NOTES:

- ALL JUNCTION BOXES SHALL BE RECESS MOUNTED AND SHALL BE PROVIDED WITH BLANK COVERS AND 3/4" E.C. UNLESS OTHERWISE NOTED.
- ALL CABLE TV CONDUITS SHALL BE RUN AFC TO NEW CABLE TV JUNCTION BOX IN EXISTING MECHANICAL ROOM.
- ALL TELEPHONE CONDUITS SHALL BE RUN AFC TO NEW TELEPHONE JUNCTION BOX IN EXISTING MECHANICAL ROOM.
- ALL DATA CONDUITS SHALL BE RUN AFC TO NEW DATA JUNCTION BOX IN EXISTING MECHANICAL ROOM.

- ALL RECEPTACLES SHALL BE MOUNTED 48" AFF UNLESS OTHERWISE NOTED. INSTALLATION SHALL COMPLY WITH NEC, ARTICLE 511.
- ALL CONDUITS STUBBING UP IN GARAGE SHALL BE PROVIDED WITH SEALING FITTINGS. INSTALLATION SHALL COMPLY WITH NEC, ARTICLE 511.
- CONTRACTOR SHALL MOUNT ALL TWIST LOCK DEVICES AT 146" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT/ENGINEER IN FIELD.
- ALL CONDUITS ENTERING THE BUILDING SHALL STUB UP THROUGH SLAB. CORE DRILLING WALL AND USE OF "LB" TYPE FITTING IS NOT ACCEPTABLE.

- CONTRACTOR SHALL RUN ALL CONDUITS BELOW SLAB, EXCEPT WITHIN THE MARKED AREA IN THE MECHANICS BAYS. CONTRACTOR SHALL NOT RUN ANY CONDUIT WITHIN THIS AREA, EXCEPT TO NOTED EQUIPMENT.
- ALL RECEPTACLES IN NEW OFFICES AND NEW LUNCHROOM TO BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED. INSTALLATION SHALL COMPLY WITH NEC, ARTICLE 511.

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RIVERHEAD, NY

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ISSUE:	
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SHEET TITLE

ELECTRICAL LIGHTING
PLAN

SHEET NUMBER

E3

MEZZANINE ELECTRICAL LIGHTING PLAN

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

ELECTRICAL LIGHTING PLAN

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

NOTES:

- CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES TO MOUNT FIXTURES APPROXIMATELY 170' AFF. EXACT MOUNTING HEIGHT SHALL BE COORDINATED WITH ARCHITECT/ ENGINEER IN FIELD.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES AND/OR SENSORS FOR COMPLETE LIGHTING CONTROL.
- CONNECT TO EXISTING PANEL B IN MECHANICAL ROOM VIA OCCUPANCY SENSOR. PROVIDE AND INSTALL CIRCUIT BREAKER AS PER NEC.

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MAINTENANCE FACILITY

OLD COUNTRY ROAD
RIVERHEAD, NY

CONTRACT

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SHEET TITLE

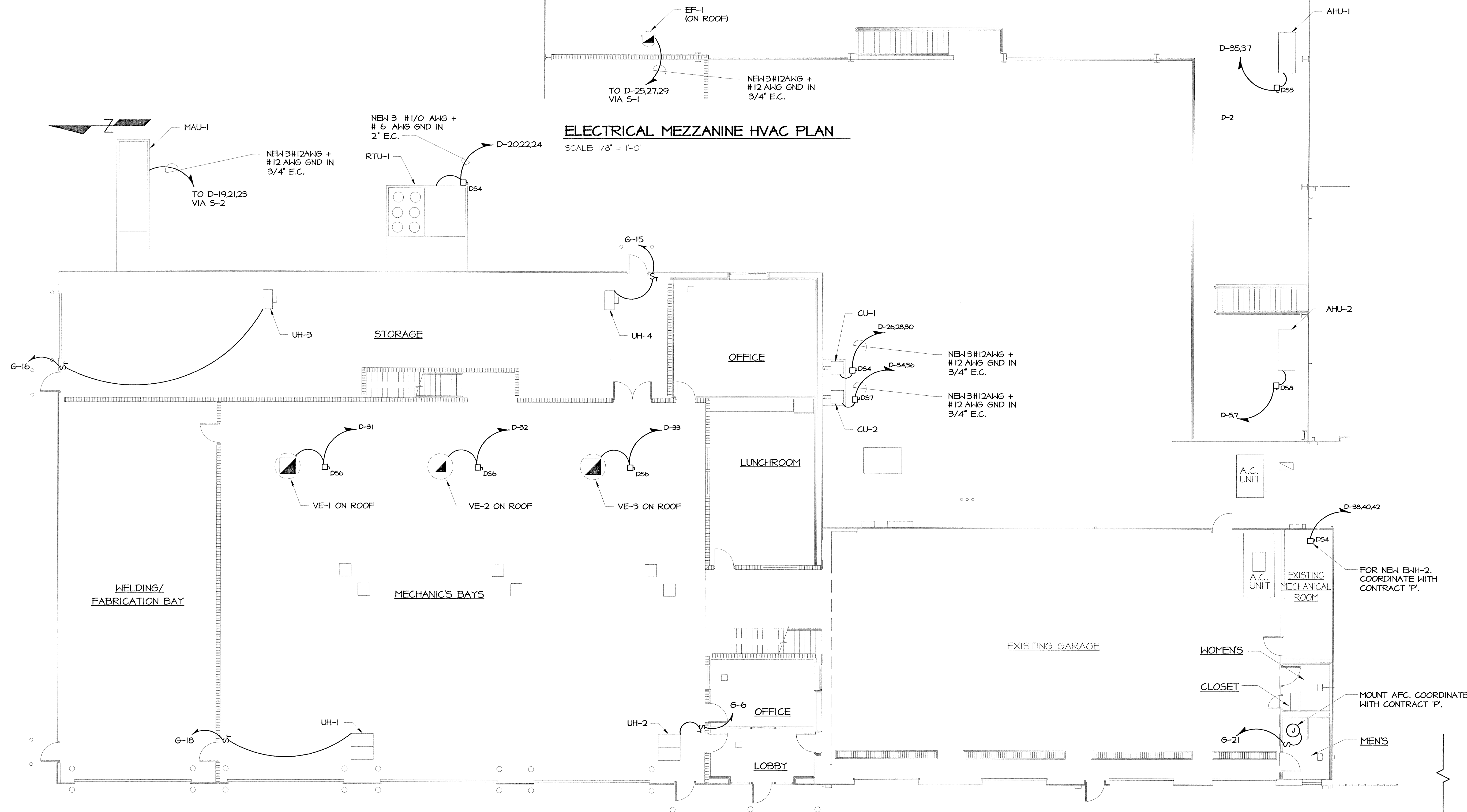
ELECTRICAL
HVAC PLAN

SHEET NUMBER

E4

ELECTRICAL MEZZANINE HVAC PLAN

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

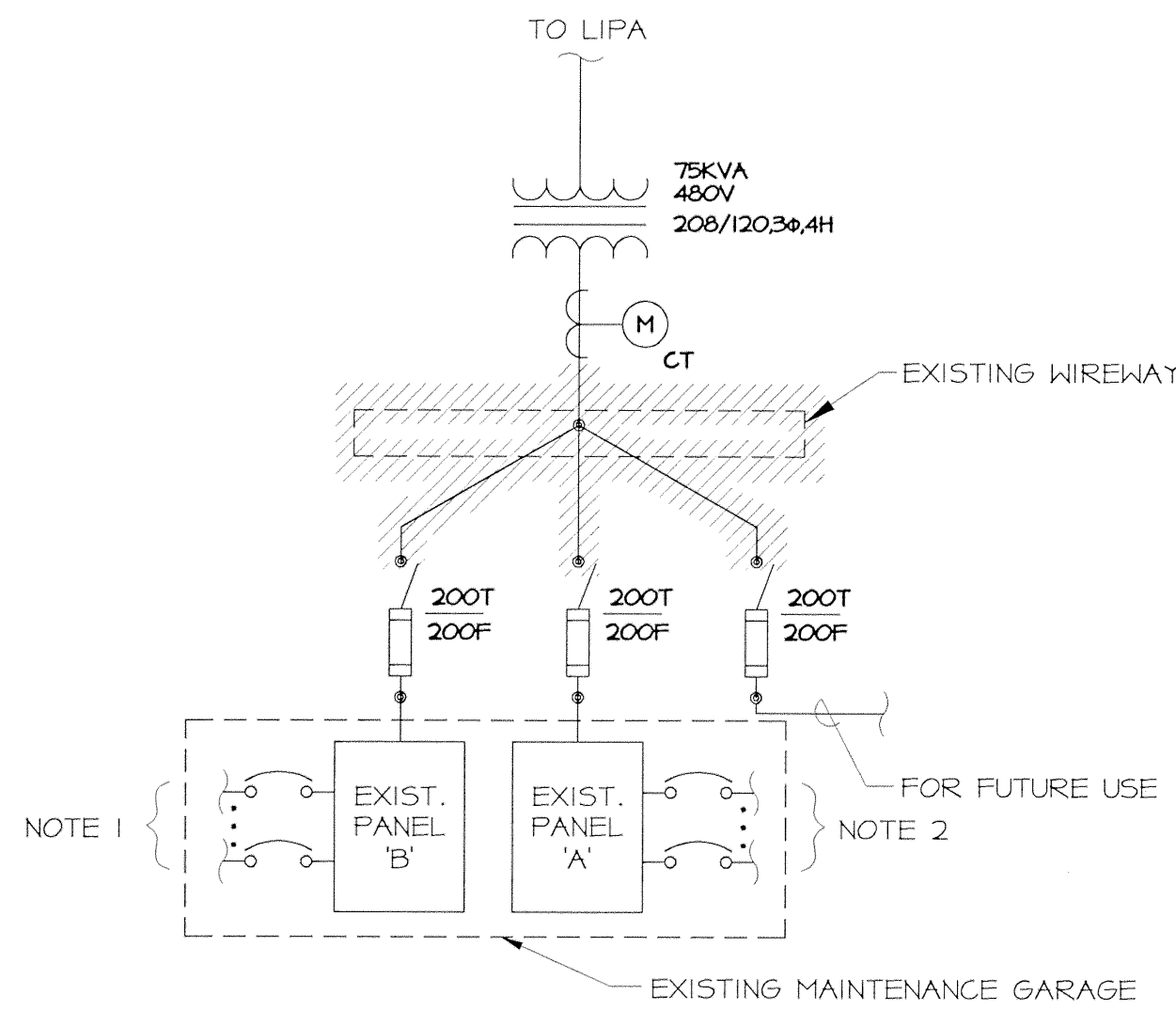


ELECTRICAL HVAC PLAN

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

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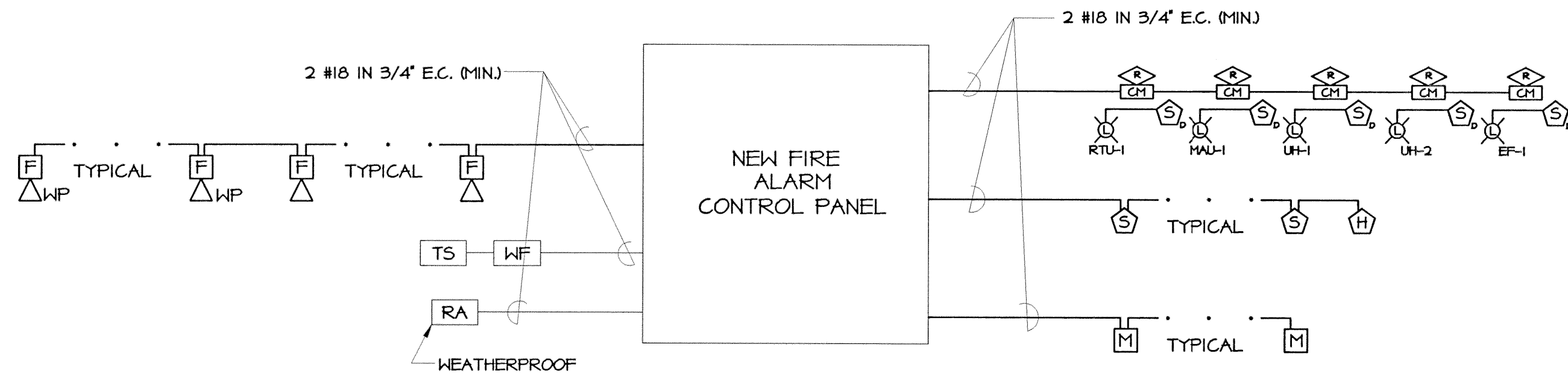


EXISTING SINGLE LINE DIAGRAM
SCALE: NONE

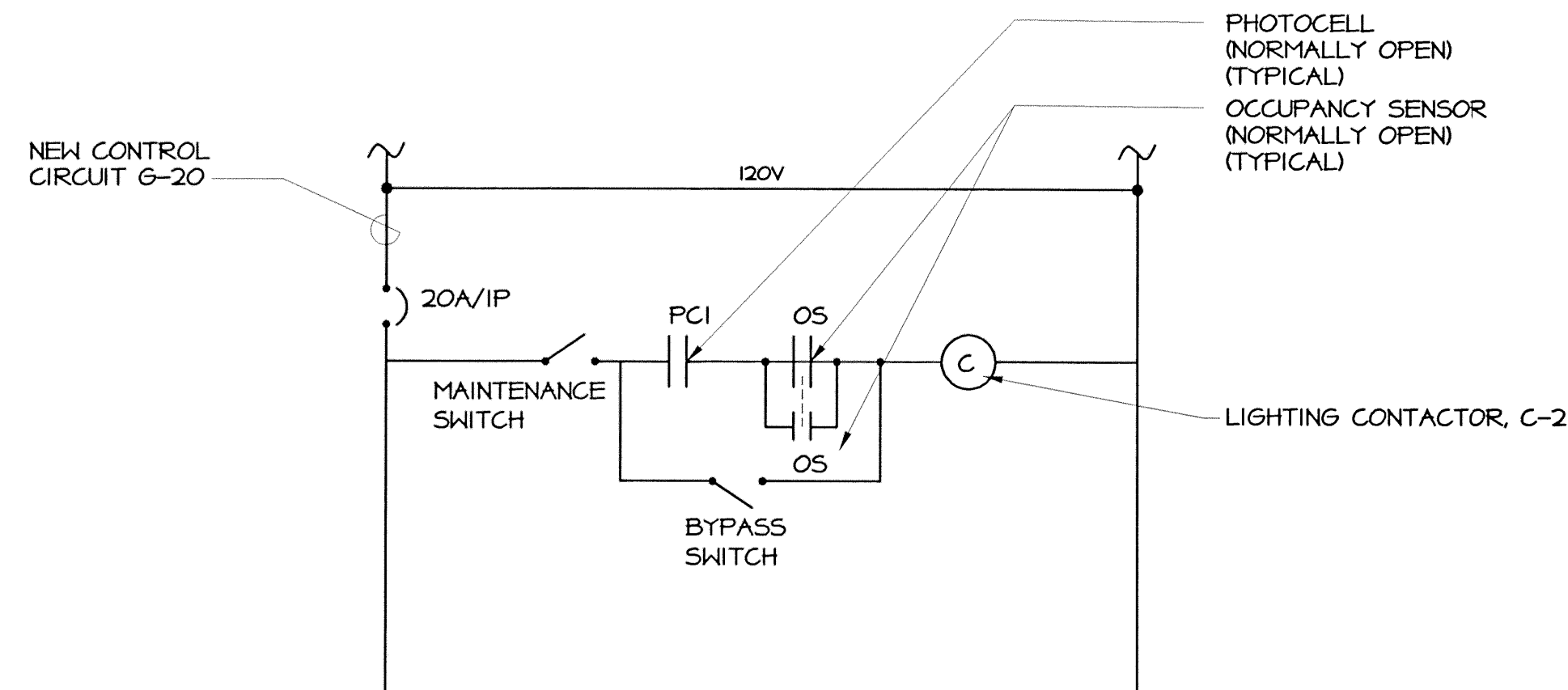
REMOVE AND DISPOSE OF INDICATED ITEMS

NOTES:

1. REMOVE ALL CIRCUITS FROM PANEL 'B' THAT ORIGINATE IN PANEL 'A' AND ARE USING PANEL 'B' AS A RACEWAY. INSTALL NEW CONDUIT AND CONDUCTORS AS PER NEC TO REFEED CIRCUITS TO FIRST POINT OF TERMINATION.
2. REMOVE ALL CIRCUITS FROM PANEL 'A' THAT ORIGINATE IN PANEL 'B' AND ARE USING PANEL 'A' AS A RACEWAY. INSTALL NEW CONDUIT AND CONDUCTORS AS PER NEC TO REFEED CIRCUITS TO FIRST POINT OF TERMINATION.

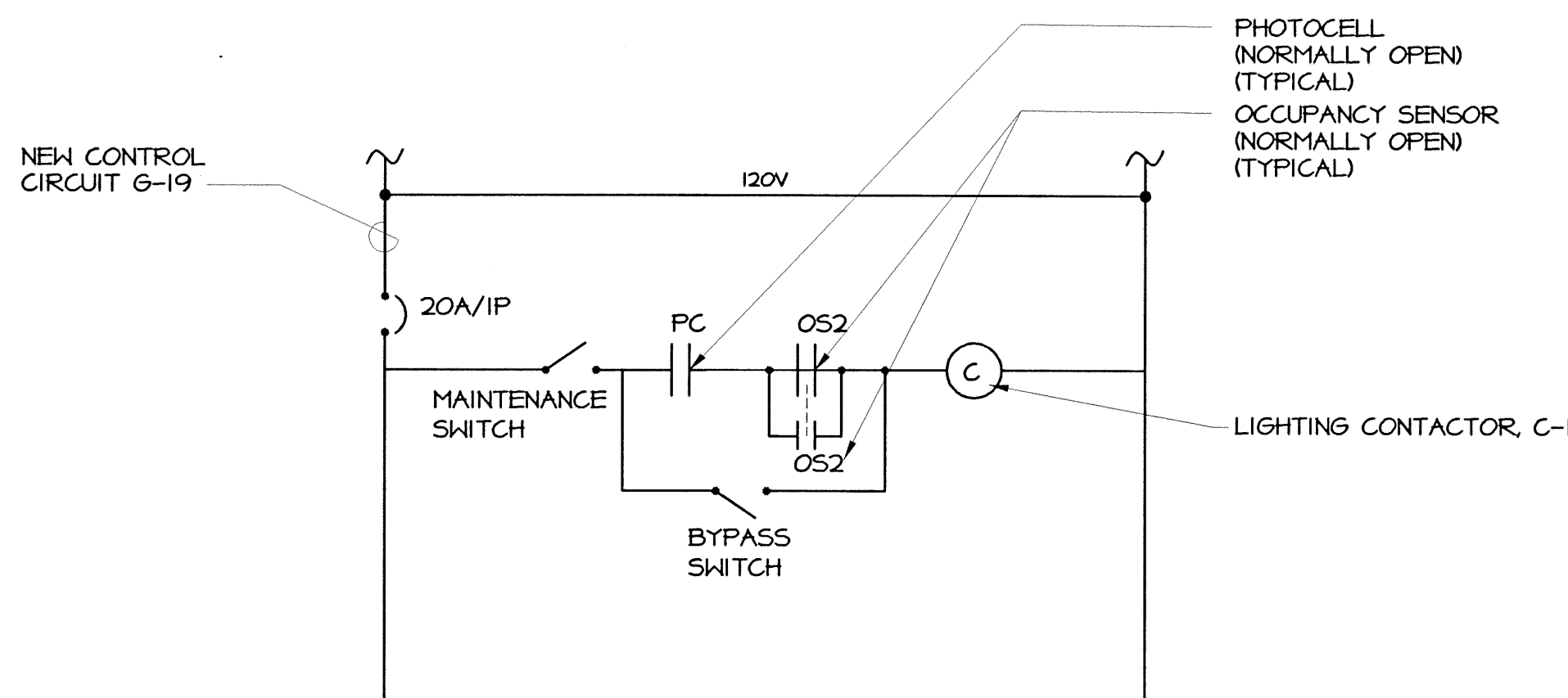


FIRE ALARM SINGLE LINE DIAGRAM
SCALE: NONE

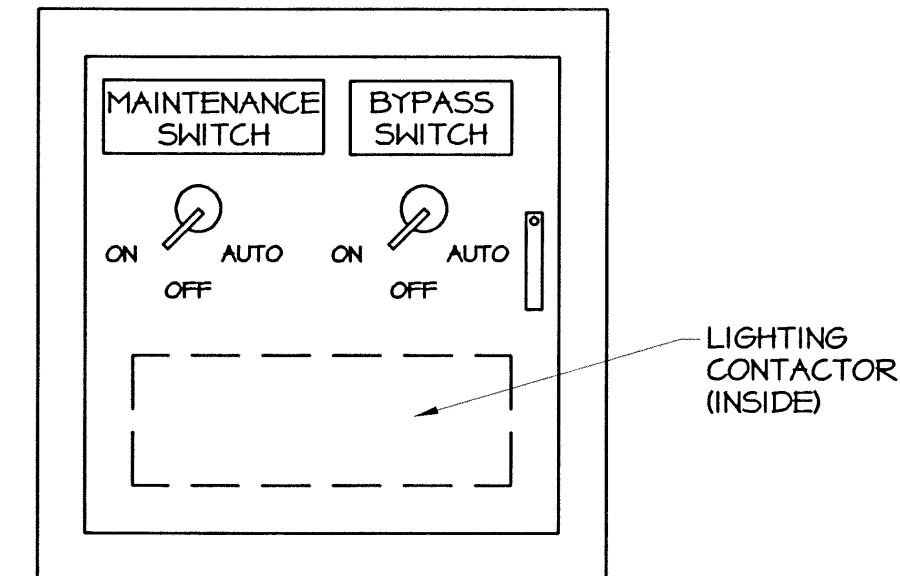


EXTERIOR LIGHTING CONTROL SCHEMATIC
NO SCALE

1. PROVIDE AND INSTALL NEW LIGHTING CONTROLS, CONTROL WIRING, RELAYS, CONTACTORS, AND SENSORS. INSTALL CONTROLS AND CONTACTORS IN NEW NEMA 1 ENCLOSURE.



EXTERIOR LIGHTING CONTROL PANEL
NO SCALE



NEW SINGLE LINE DIAGRAM
SCALE: NONE

SINGLE LINE DIAGRAM FEEDER SCHEDULE

FEEDER	DESCRIPTION
A	NEW 2 SETS OF 4 #350 MCM + #1 AWG GND IN (2) 3" E.C.
B	NEW 4 #3/0 AWG + #6 AWG GND IN 2 1/2" E.C.
C	EXISTING 4 #3/0 AWG + #6 AWG GND IN 2" E.C.
D	NEW 2 SETS OF 4 #3/0 AWG + #3 AWG GND IN (2) 2 1/2" E.C.

CONSULTANTS

TOWN OF RIVERHEAD

ADDITION AND
ALTERATION TO
MECHANICS
MAINTENANCE FACILITY

OLD COUNTRY ROAD
RIVERHEAD, NY

CONTRACT

1	6-18-01	SET UP SHEET
MARK	DATE	DESCRIPTION

PROJECT NO:	RVT 00-07
DATE:	AUGUST 2001
CAD DWG FILE:	E-6.dwg
XREF DWG FILE:	-
SCALE:	AS SHOWN
FILE LOCATION:	
DESIGNED BY:	MCB
DRAWN BY:	DP
CHECKED BY:	
REVIEWED BY:	

SHEET TITLE

**ELECTRICAL SINGLE
LINE DIAGRAMS**

SHEET NUMBER

E6

I:\cadd\BVT\0007\Municipal Garage\Cons\A-E-7.dwg Last Modified: Aug 27, 2001 - 2:36pm Plotted on Aug 27, 2001 - 2:39pm By JLM

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LICENSED PROFESSIONAL, IS ILLEGAL"

TOWN OF RIVERHEAD

ADDITION AND
ALTERATION TO
MECHANICS
MAINTENANCE FACILITY

OLD COUNTRY ROAD
RIVERHEAD, NY

CONTRACT

MARK DATE DESCRIPTION

ISSUE:
PROJECT NO: RVT 00-07
DATE: AUGUST 2001
CAD DWG FILE: E-7.DWG
XREF DWG FILE: -
SCALE: AS SHOWN
FILE LOCATION:
DESIGNED BY: MCB
DRAWN BY: DP
CHECKED BY:
REVIEWED BY:

SHEET TITLE

ELECTRICAL
SCHEDULES

SHEET NUMBER

E7

Panel Wiring Schedule (B-Phase)

Panelboard: C Voltage: 208/120 Phase: 3 Wire: 4 AIC Rating: 65,000
Manufacturer: SQUARE D Mains: 200A Mains Rating: 200 MCB
Panel Type: NGOD Mounting: SURFACE Options: --- Note: ---
NEMA Type Enclosure: 1
Locations: NEH MAINTENANCE GARAGE, NEW STORAGE ROOM (DRAWING E3)

LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CONNECTED LOAD			Q J U C A B C	CONNECTED LOAD			TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
			Ø A	Ø B	Ø C		Ø A	Ø B	Ø C			
DOOR MOTOR		20 3P	420	420	420	1	420	420	420	20 3P		DOOR MOTOR
DOOR MOTOR		20 3P	420	420	420	2	420	420	420	20 3P		DOOR MOTOR
RECEPTACLES		20/1P	1080			3	720			20/1P		RECEPTACLES
RECEPTACLES		20/1P		1000		4		1000		20/1P		RECEPTACLES
RECEPTACLES		20/1P			1000	5			1000	20/1P		RECEPTACLES
RECEPTACLES		20/1P	720			6	720			20/1P		RECEPTACLES
RECEPTACLES		20/1P		720		7		720		20/1P		RECEPTACLES
RECEPTACLES		20/1P			900	8			900	20/1P		RECEPTACLES
RECEPTACLES		20/1P	720			9	720			20/1P		RECEPTACLES
RECEPTACLES		20/1P		720		10		720		20/1P		RECEPTACLES
RECEPTACLES		20/1P			1000	11			1000	20/1P		RECEPTACLES
RECEPTACLES		20/1P	2160			12	2160			20/1P		RECEPTACLES
RECEPTACLES		20/1P		1000		13		1000		20/1P		RECEPTACLES
RECEPTACLES		20/1P			1000	14			1000	20/1P		RECEPTACLES
RECEPTACLES		20/1P	720			15	720			20/1P		RECEPTACLES
RECEPTACLES		20/1P		720		16		720		20/1P		RECEPTACLES
RECEPTACLES		20/1P			1440	17			1440	20/1P		RECEPTACLES
RECEPTACLES		20/1P	2160			18	2160			20/1P		RECEPTACLES
RECEPTACLES		20/1P		1800		19		1800		20/1P		RECEPTACLES
RECEPTACLES		20/1P			720	20			720	20/1P		RECEPTACLES
RECEPTACLES		20/1P				21				20/1P		RECEPTACLES
RECEPTACLES		20/1P				22				20/1P		RECEPTACLES
RECEPTACLES		20/1P				23				20/1P		RECEPTACLES
RECEPTACLES		20/1P				24				20/1P		RECEPTACLES
RECEPTACLES		20/1P				25				20/1P		RECEPTACLES
RECEPTACLES		20/1P				26				20/1P		RECEPTACLES
RECEPTACLES		20/1P				27				20/1P		RECEPTACLES
RECEPTACLES		20/1P				28				20/1P		RECEPTACLES
RECEPTACLES		20/1P				29				20/1P		RECEPTACLES
RECEPTACLES		20/1P				30				20/1P		RECEPTACLES
RECEPTACLES		20/1P				31				20/1P		RECEPTACLES
RECEPTACLES		20/1P				32				20/1P		RECEPTACLES
RECEPTACLES		20/1P				33				20/1P		RECEPTACLES
RECEPTACLES		20/1P				34				20/1P		RECEPTACLES
RECEPTACLES		20/1P				35				20/1P		RECEPTACLES
RECEPTACLES		20/1P				36				20/1P		RECEPTACLES
RECEPTACLES		20/1P				37				20/1P		RECEPTACLES
RECEPTACLES		20/1P				38				20/1P		RECEPTACLES
RECEPTACLES		20/1P				39				20/1P		RECEPTACLES
RECEPTACLES		20/1P				40				20/1P		RECEPTACLES
RECEPTACLES		20/1P				41				20/1P		RECEPTACLES
RECEPTACLES		20/1P				42				20/1P		RECEPTACLES

Connected Totals: ØA 9.25 kA
ØB 10.26 kA
ØC 9.92 kA
Total 30.03 kA 83.35 Amperes

(All Phases to be balanced to within 7% using Actual Load Totals)

AS - Powerlink AS Breaker
LO - Handle lock-off device
ST - Shunt Trip Type
ALX - Auxiliary Contacts
PA - Handle Padlock Attachment
GFCI - Ground Fault Circuit Interrupter
HACR - Heating, A/C & Refrigeration
SF - Subfeed
TC - Time Clock Control

Panel Wiring Schedule (B-Phase)

Panelboard: D Voltage: 208/120 Phase: 3 Wire: 4 AIC Rating: 65,000
Manufacturer: SQUARE D Mains: 400A Mains Rating: 400A
Panel Type: NGOD Mounting: SURFACE Options: --- Note: ---
NEMA Type Enclosure: 1
Locations: NEH MAINTENANCE GARAGE, NEW STORAGE ROOM (DRAWING E3)

LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CONNECTED LOAD			Q J U C A B C	CONNECTED LOAD			TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
			Ø A	Ø B	Ø C		Ø A	Ø B	Ø C			
CEILING FANS		20/1P	1000			1	1000			20/1P		CEILING FANS
RECEPTACLES		20/1P		1000		2		1000		20/1P		RECEPTACLES
AHU-2	HACR	15 2P	333		333	3	333		333	15 2P	HACR	AHU-2
RECEPTACLES		20/1P		1360		4		1360		20/1P		RECEPTACLES
RECEPTACLES		20/1P			1360	5			1360	20/1P		RECEPTACLES
RECEPTACLES		20/1P	1800			6	1800			20/1P		RECEPTACLES
RECEPTACLES		20/1P		1800		7		1800		20/1P		RECEPTACLES
RECEPTACLES		20/1P			1800	8			1800	20/1P		RECEPTACLES
RECEPTACLES		20/1P				9				20/1P		RECEPTACLES
RECEPTACLES		20/1P				10				20/1P		RECEPTACLES
RECEPTACLES		20/1P				11				20/1P		RECEPTACLES
RECEPTACLES		20/1P				12				20/1P		RECEPTACLES
RECEPTACLES		20/1P				13				20/1P		RECEPTACLES
RECEPTACLES		20/1P				14				20/1P		RECEPTACLES
RECEPTACLES		20/1P				15				20/1P		RECEPTACLES
RECEPTACLES		20/1P				16				20/1P		RECEPTACLES
RECEPTACLES		20/1P				17				20/1P		RECEPTACLES
RECEPTACLES		20/1P				18				20/1P		RECEPTACLES
RECEPTACLES		20/1P				19				20/1P		RECEPTACLES
RECEPTACLES		20/1P				20				20/1P		RECEPTACLES
RECEPTACLES		20/1P				21				20/1P		RECEPTACLES
RECEPTACLES		20/1P				22				20/1P		RECEPTACLES
RECEPTACLES		20/1P				23				20/1P		RECEPTACLES
RECEPTACLES		20/1P				24				20/1P		RECEPTACLES
RECEPTACLES		20/1P				25				20/1P		RECEPTACLES
RECEPTACLES		20/1P				26				20/1P		RECEPTACLES
RECEPTACLES		20/1P				27				20/1P		RECEPTACLES
RECEPTACLES		20/1P				28				20/1P		RECEPTACLES
RECEPTACLES		20/1P				29				20/1P		RECEPTACLES
RECEPTACLES		20/1P				30				20/1P		RECEPTACLES
RECEPTACLES		20/1P				31				20/1P		RECEPTACLES
RECEPTACLES		20/1P				32				20/1P		RECEPTACLES
RECEPTACLES		20/1P				33				20/1P		RECEPTACLES
RECEPTACLES		20/1P				34				20/1P		RECEPTACLES
RECEPTACLES		20/1P				35				20/1P		RECEPTACLES
RECEPTACLES		20/1P				36				20/1P		RECEPTACLES
RECEPTACLES		20/1P				37				20/1P		RECEPTACLES
RECEPTACLES		20/1P				38				20/1P		RECEPTACLES
RECEPTACLES		20/1P				39				20/1P		RECEPTACLES
RECEPTACLES		20/1P				40				20/1P		RECEPTACLES
RECEPTACLES		20/1P				41				20/1P		RECEPTACLES
RECEPTACLES		20/1P				42				20/1P		RECEPTACLES

Connected Totals: ØA 27.06 kA
ØB 29.26 kA
ØC 28.82 kA
Total 85.14 kA 236.33 Amperes

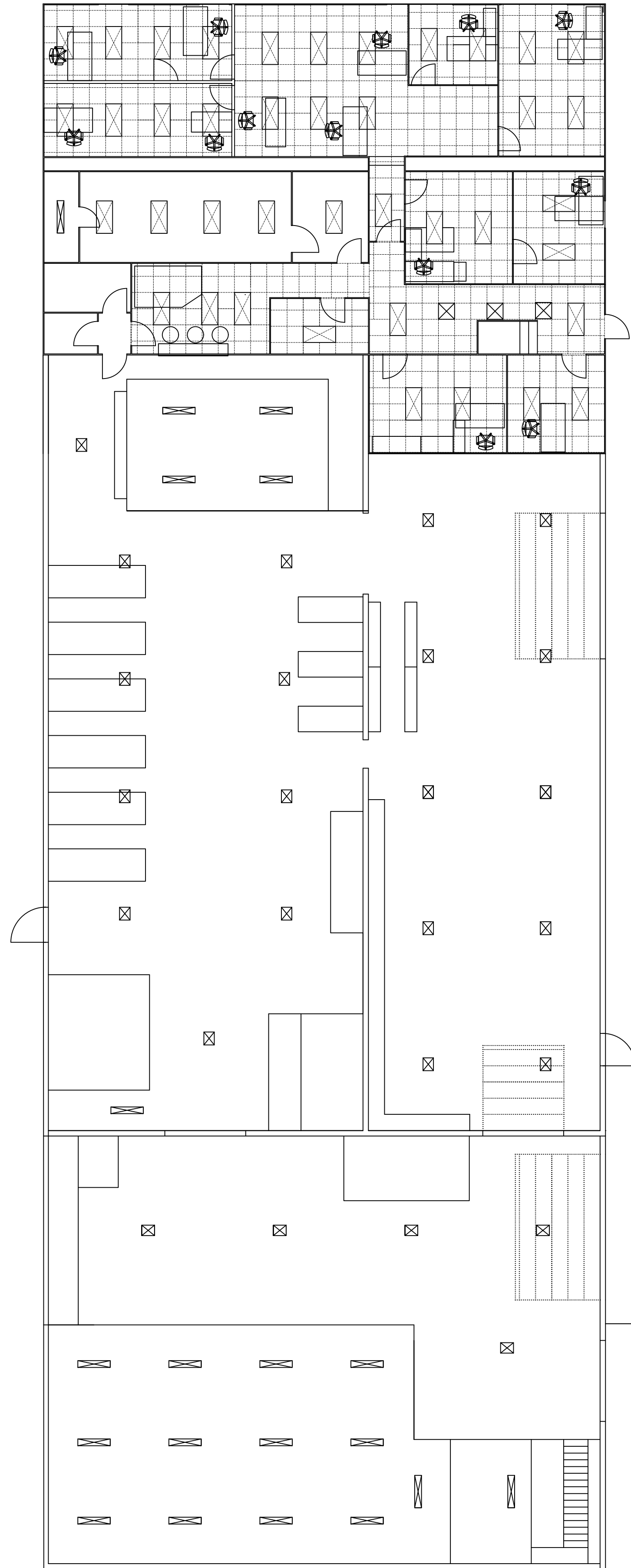
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Panel Wiring Schedule (B-Phase)

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NEMA Type Enclosure: 1
Locations: NEH MAINTENANCE GARAGE, NEW STORAGE ROOM (DRAWING E3)

LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CONNECTED LOAD			Q J U C A B C	CONNECTED LOAD			TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
			Ø A	Ø B	Ø C		Ø A	Ø B	Ø C			
OUTSIDE LIGHTS		20/1P	1200			1	1200			20/1P		OUTSIDE LIGHTS
OUTSIDE LIGHTS		20/1P		1200		2		1200		20/1P		OUTSIDE LIGHTS
EXIT/EMERGENCY LIGHTS		20/1P			234	3			234	20/1P		EXIT/EMERGENCY LIGHTS
BAY LIGHTS		20/1P	2800			4	2800			20/1P		BAY LIGHTS
BAY LIGHTS		20/1P		2400		5		2400		20/1P		BAY LIGHTS
BAY LIGHTS		20/1P			2800	6			2800	20/1P		BAY LIGHTS
LIGHTS		20/1P	768			7	768			20/1P		LIGHTS
UH-4	HACR	15/1P		276		8		276		15/1P	HACR	UH-4
HELDING BAY LIGHTS		20/1P			2800	9			2800	20/1P		HELDING BAY LIGHTS
LIGHT CONTROLS		20/1P	100			10	100			20/1P		LIGHT CONTROLS
SHOWER LIGHT		20/1P		32		11		32		20/1P		SHOWER LIGHT
SPARE		20/1P				12				20/1P		SPARE
SPARE		20/1P				13				20/1P		SPARE
SPARE		20/1P				14				20/1P		SPARE
SPARE		20/1P				15				20/1P		SPARE
SPARE		20/1P				16				20/1P		SPARE
SPARE		20/1P				17				20/1P		SPARE
SPARE		20/1P				18				20/1P		SPARE
SPARE		20/1P				19				20/1P		SPARE
SPARE		20/1P				20				20/1P		SPARE
SPARE		20/1P				21				20/1P		SPARE
SPARE		20/1P				22				20/1P		SPARE
SPARE		20/1P				23				20/1P		SPARE
SPARE		20/1P				24				20/1P		SPARE
SPARE		20/1P				25				20/1P		SPARE
SPARE		20/1P				26				20/1P		SPARE
SPARE		20/1P				27				20/1P		SPARE
SPARE		20/1P				28				20/1P		SPARE
SPARE		20/1P				29				20/1P		



OFFICES

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