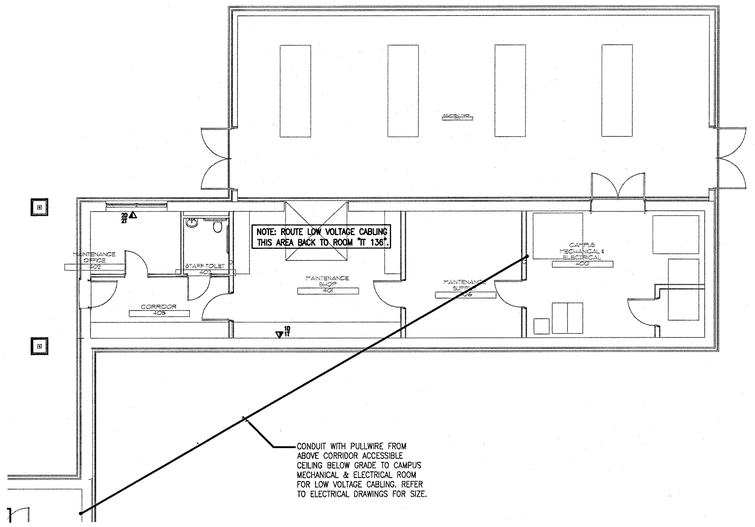
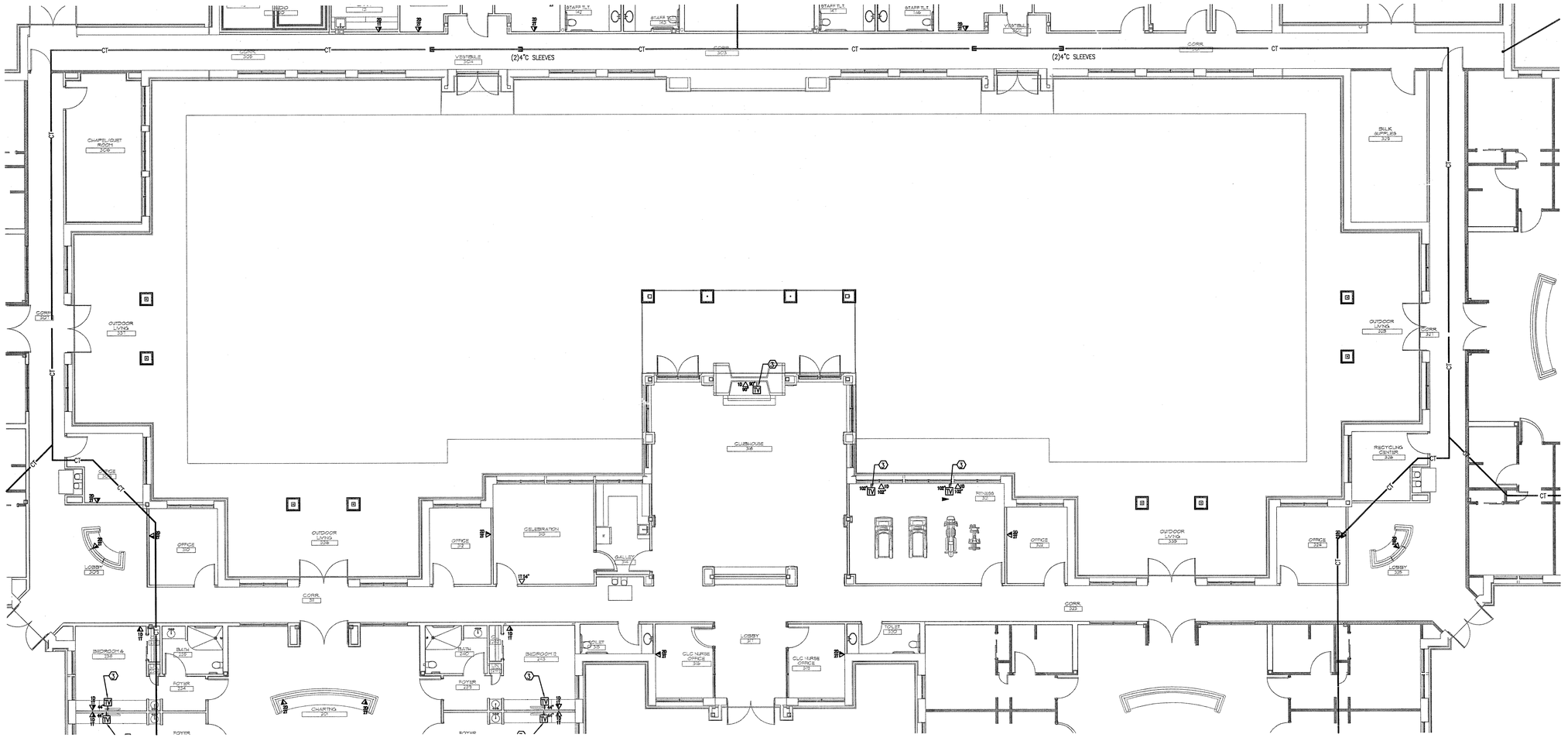
KEYNOTES:

1. MOUNT DEVICE IN FLOOR BOX. REFER TO POWER PLAN.
2. DATA/TELEPHONE/CATV/POWER CONDUIT(S) TO BE WITHIN SLAB. COORDINATE EXACT REQUIREMENTS IN FIELD.
3. COORDINATE MOUNTING HEIGHT AND LOCATION OF CATV DEVICES WITH ARCHITECT/OWNER.
4. MODULAR FREESTANDING CABINET.
5. HORIZONTAL LADDER RACK ABOVE.
6. PROVIDE RG6 CABLING TO IT ROOM.
7. COORDINATE LOCATION WITH AUDIO Bbooth SUPPLIER.



1 E1.15 LOW VOLTAGE SYSTEMS PLAN - PHYSICAL PLANT

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



2 E1.15 LOW VOLTAGE SYSTEMS PLAN - COMMON AREA

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

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TRINKA DAVIS VETERANS VILLAGE
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DATE	REVISION
9/8/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
2/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/4/11	ADDENDUM #1
3/18/11	ADDENDUM 3

PROJECT NO.
223.01.00

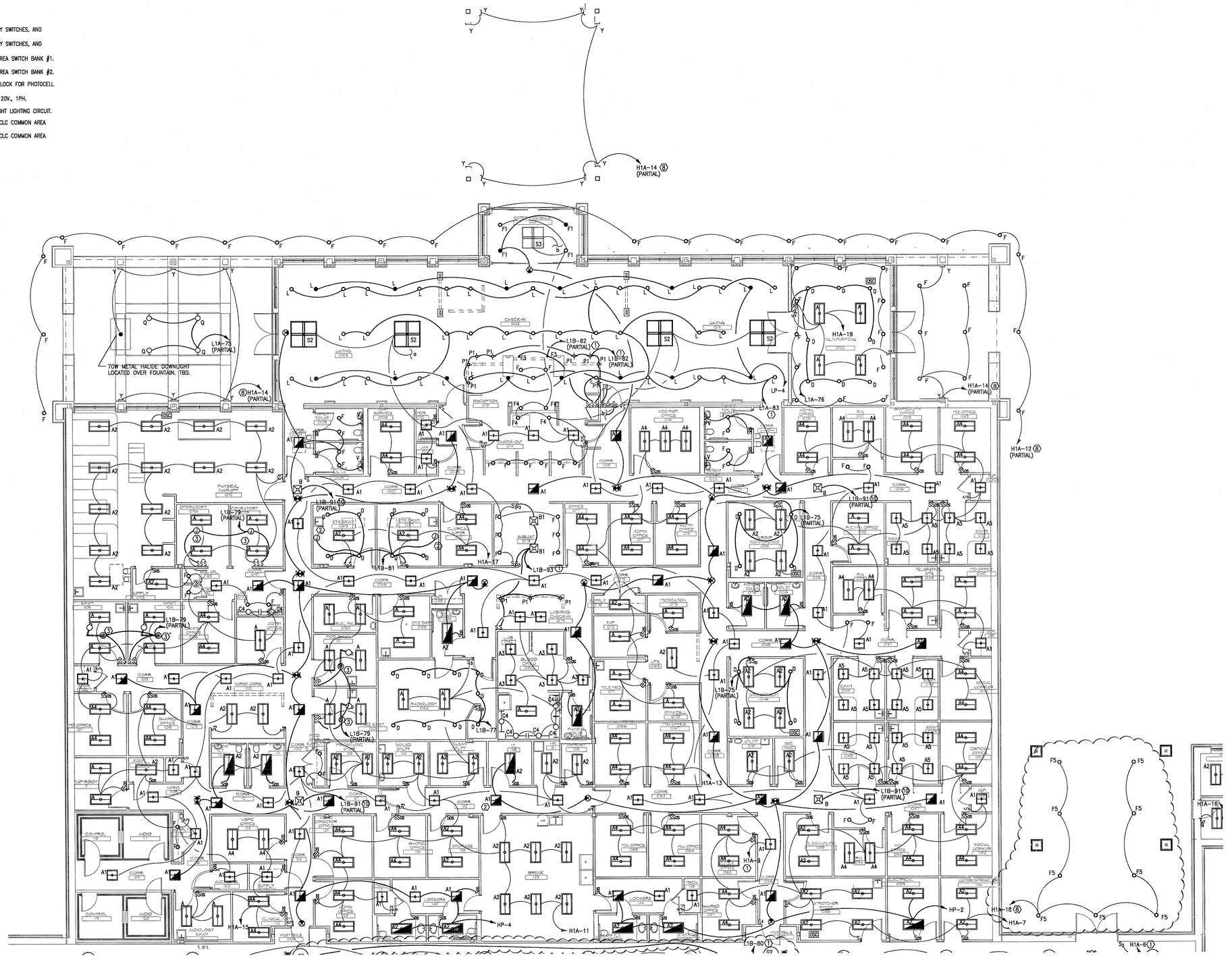
DATE:
FEB 21TH, 2011

DRAWING TITLE:
LOW VOLTAGE SYSTEMS PLAN - COMMON AREA & PHYSICAL PLAN

E1.15

KEYNOTES:

1. CONNECT CIRCUIT(S) VIA INTERIOR CONTACTOR.
2. PROVIDE JUNCTION BOX FOR FOOT CONTROLLED 3-WAY DIMMER SWITCH FOR FLUORESCENT LIGHTS. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER.
3. PROVIDE JUNCTION BOX FOR EXAM LIGHT, 120V, 1PH.
4. CLC COMMON AREA SWITCH BANK #1. PROVIDE (3) 3-WAY SWITCHES, AND (1) FLUORESCENT DIMMER SWITCH.
5. CLC COMMON AREA SWITCH BANK #2. PROVIDE (3) 3-WAY SWITCHES, AND (1) FLUORESCENT DIMMER SWITCH.
6. CONNECT TO 3-WAY SWITCH LOCATED AT CLC COMMON AREA SWITCH BANK #1.
7. CONNECT TO 3-WAY SWITCH LOCATED AT CLC COMMON AREA SWITCH BANK #2.
8. ROUTE LIGHTING CIRCUIT THROUGH PHOTOCELL AND TIMECLOCK FOR PHOTOCELL ON/TIMECLOCK OFF OPERATION.
9. PROVIDE AND INSTALL JUNCTION BOX FOR CEILING FAN, 120V., 1PH.
10. LIGHTING CIRCUIT SHALL BE DESIGNATED AS 24 HOUR NIGHT LIGHTING CIRCUIT.
11. CONNECT TO FLUORESCENT DIMMER SWITCH LOCATED AT CLC COMMON AREA SWITCH BANK #1.
12. CONNECT TO FLUORESCENT DIMMER SWITCH LOCATED AT CLC COMMON AREA SWITCH BANK #2.



1 E2.10 LIGHTING PLAN - CBOC
SCALE: 1/8" = 1'-0"

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PROJECT NO.
229.0100

DATE
FEB 21TH 2011

DRAWING TITLE:
LIGHTING PLAN - CBOC

E2.10

KEYNOTES:

1. CONNECT CIRCUIT(S) VIA INTERIOR CONTACTOR.
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NOTE:

PLAN INDICATED IS FOR CLC 'A'. CLC'S 'B', 'C', AND 'D' ARE SIMILAR. PANEL INDICATIONS FOR CLC'S 'B', 'C', AND 'D' ARE:

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LN1 = LN2

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HN1 = HE
LN1 = LE

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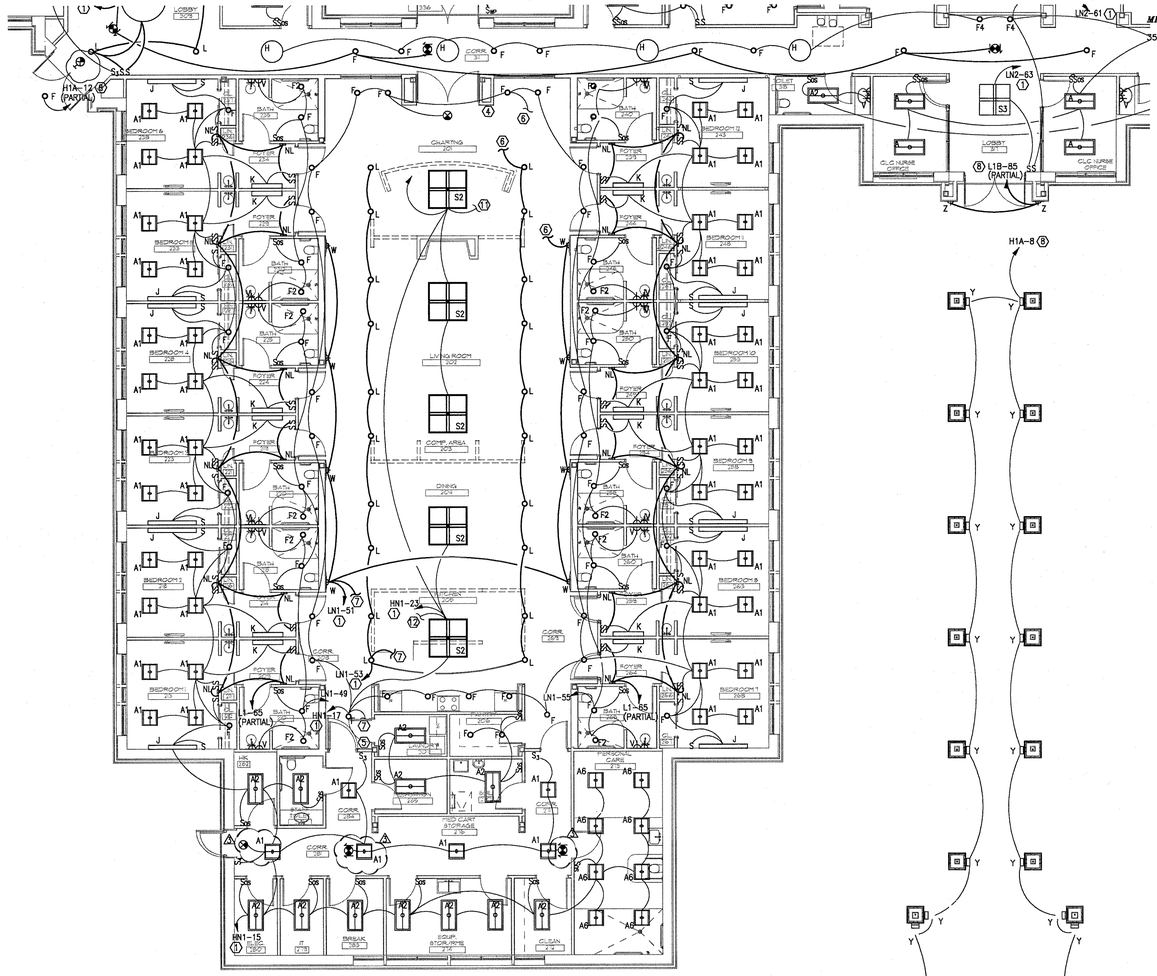
HN1 = HW
LN1 = LW



1 E2.11 LIGHTING PLAN - CLC

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

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3/18/11	ADDENDUM 3

PROJECT NO.
229.01.00

DATE
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DRAWING TITLE:
LIGHTING PLAN - CLC

E2.11

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KEYNOTES:

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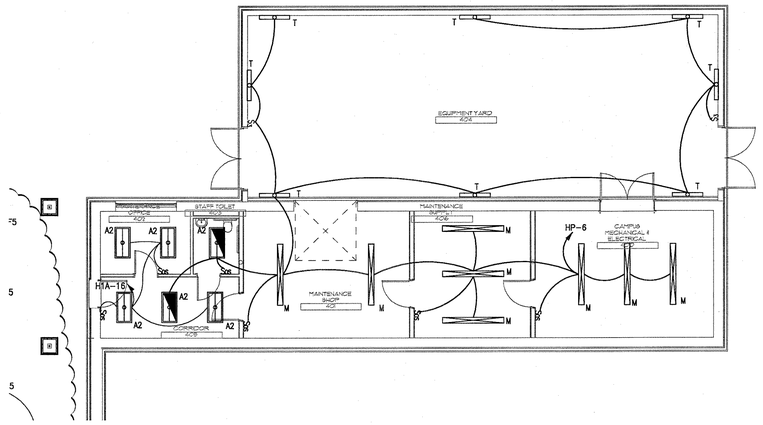

2 E2.12 LIGHTING PLAN - PHYSICAL PLANT
SCALE: 1/8" = 1'-0"

1 E2.12 LIGHTING PLAN - COMMON AREA
SCALE: 1/8" = 1'-0"

TRINKA DAVIS VETERANS VILLAGE
CARROLLTON, GA 30117

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PROJECT NO.
229.01.00

DATE
FEB 21TH, 2011

DRAWING TITLE
LIGHTING PLAN - COMMON AREA & PHYSICAL PLAN

E2.12

KEYNOTES:

1. UNIT PROVIDED WITH INTEGRAL DISCONNECTING MEANS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL.
2. PROVIDE CONDUIT FROM CARD READER TO JUNCTION BOX FOR DOOR INTERLOCK UNIT ABOVE CEILING. COORDINATE EXACT REQUIREMENTS WITH SYSTEM PROVIDER.
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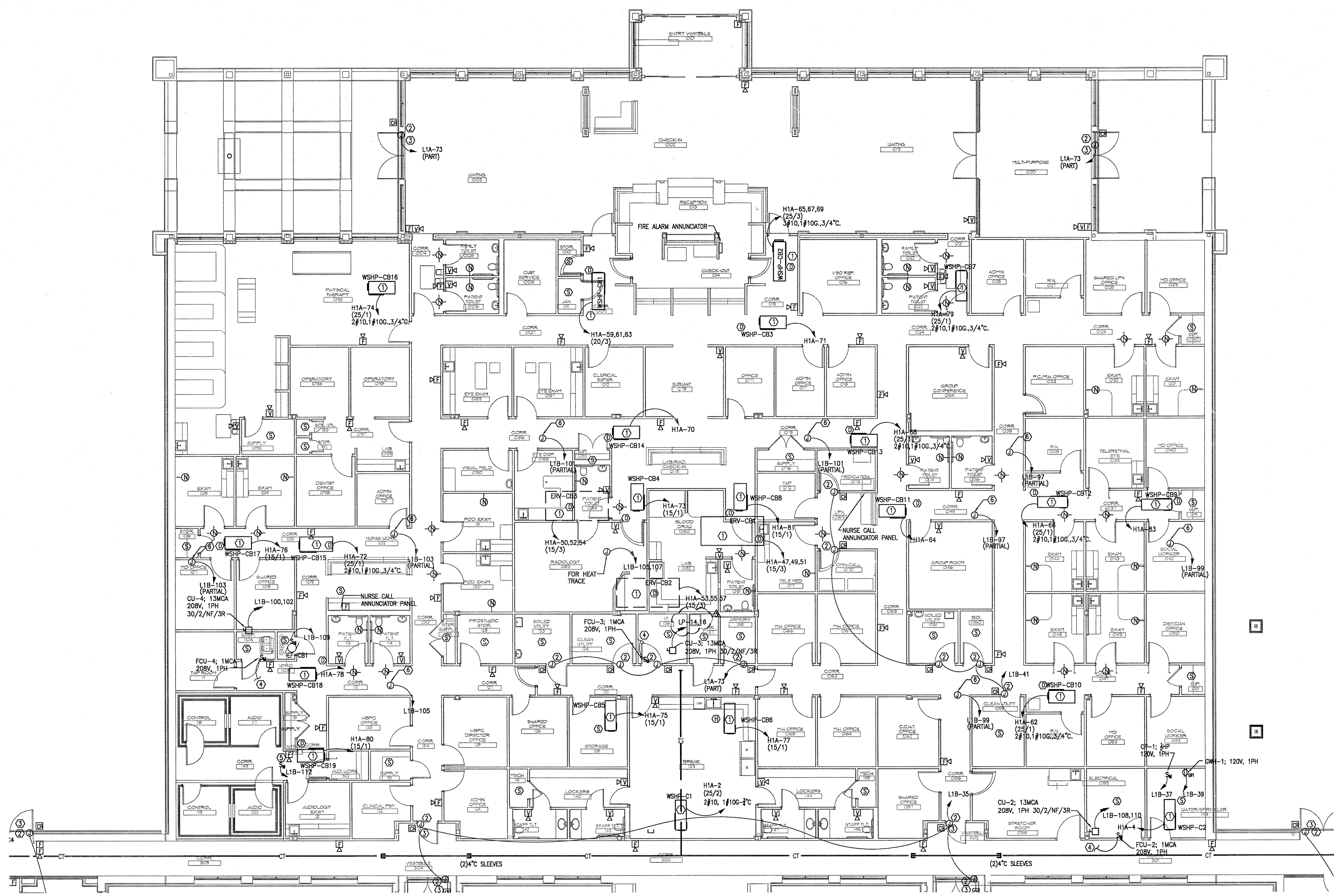
4. CONNECT TO FAN COIL UNIT TO ASSOCIATED CONDENSING UNIT LOCATED OUTSIDE PER MANUFACTURER'S RECOMMENDATIONS IN ½"C.
5. MOTORIZED DAMPER; 120V, 1PH.
6. PROVIDE AND INSTALL POWER CONNECTION TO ZONE DAMPER TRANSFORMER. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH DIVISION 15 PRIOR TO INSTALLATION.
7. FIRE/SMOKE DAMPER; 120V, 1PH. (revision 3)



1 / E3.10 SYSTEMS PLAN - CBOC

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

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PROJECT NO: 229.01.00

DATE: FEB 21TH, 2011

DRAWING TITLE: SYSTEMS PLAN - CBOC

E3.10

KEYNOTES:

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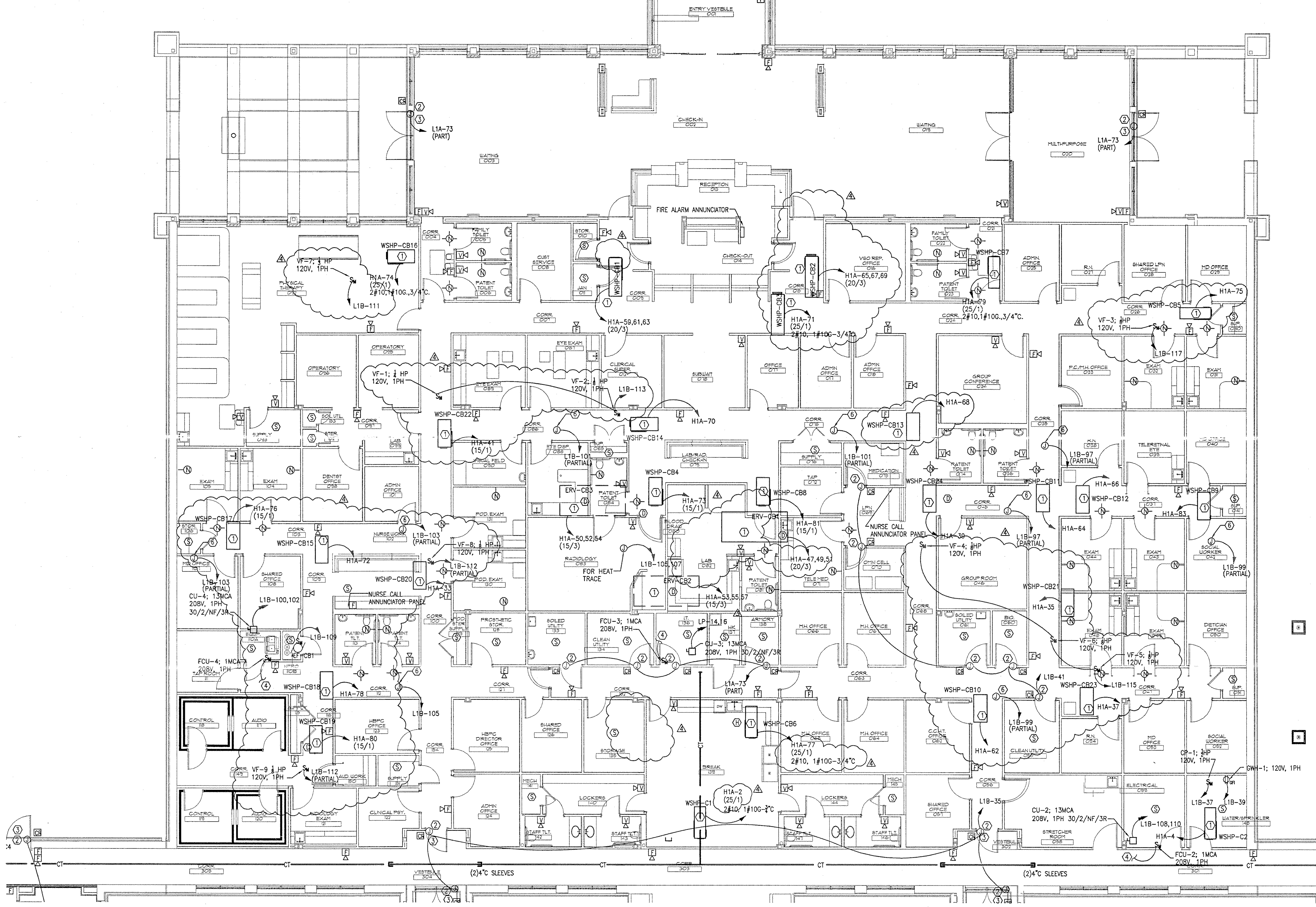

1 / E3.10 SYSTEMS PLAN - CBOC

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

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4/28/11	REVISION 1

PROJECT NO: 223.01.00

DATE: FEB 2ITH, 2011

DRAWING TITLE: SYSTEMS PLAN - CBOC

E3.10

KEYNOTES:

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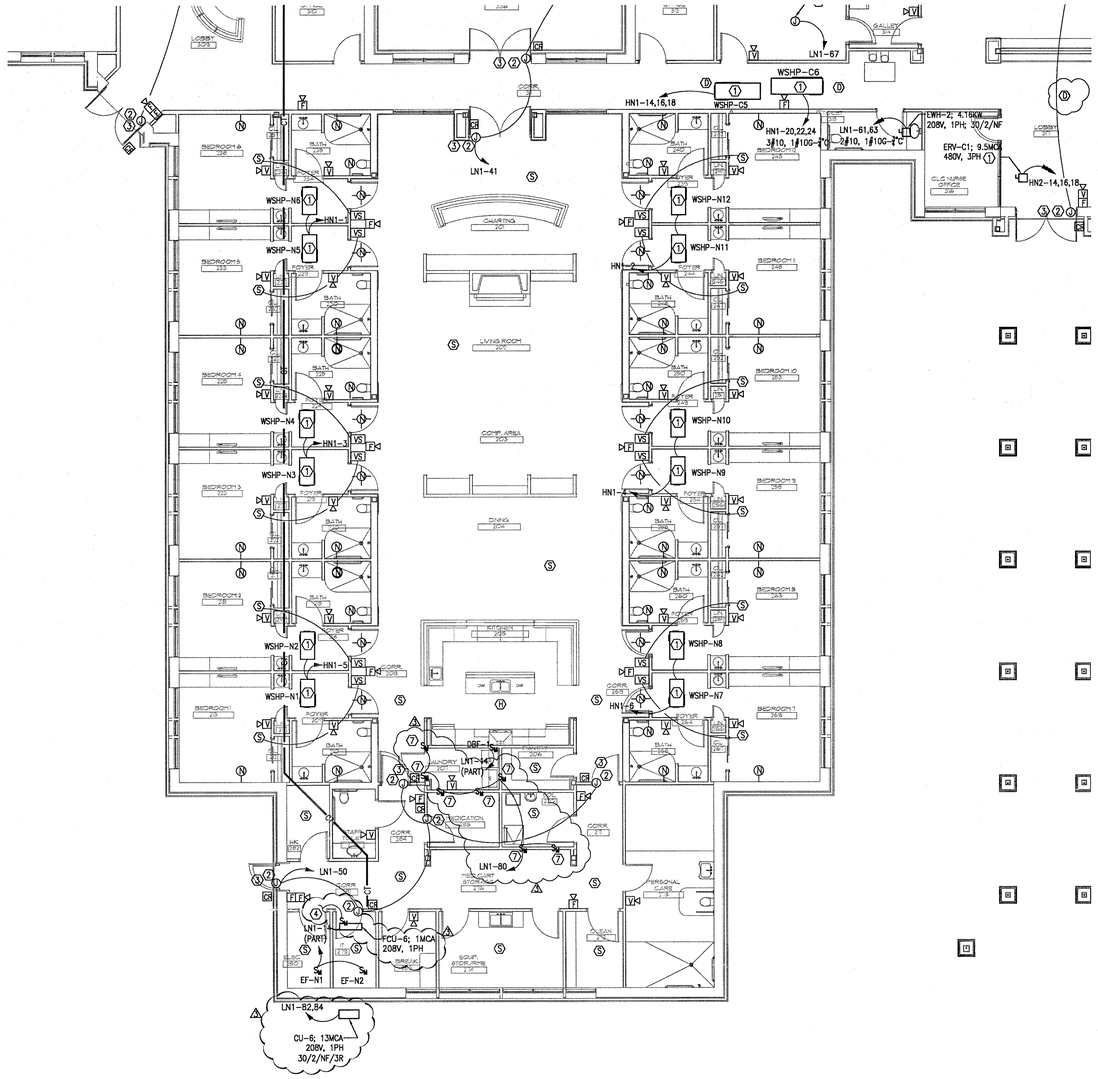
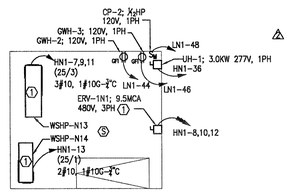


1 E3.11 SYSTEMS PLAN - CLINIC

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



2 E3.11 SYSTEMS PLAN - MEZZANINE CLINIC

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

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4/12/11	ADDENDUM 3
3/18/11	ADDENDUM 3

PROJECT NO.
229.01.00

DATE:
FEB 21TH, 2011

DRAWING TITLE:
SYSTEMS PLAN - CLINIC

E3.11

KEYNOTES:

1. UNIT PROVIDED WITH INTEGRAL DISCONNECTING MEANS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL.
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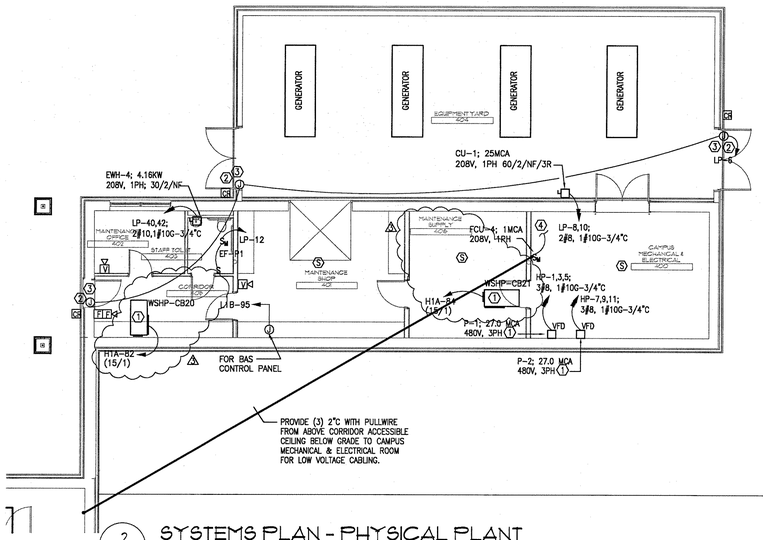
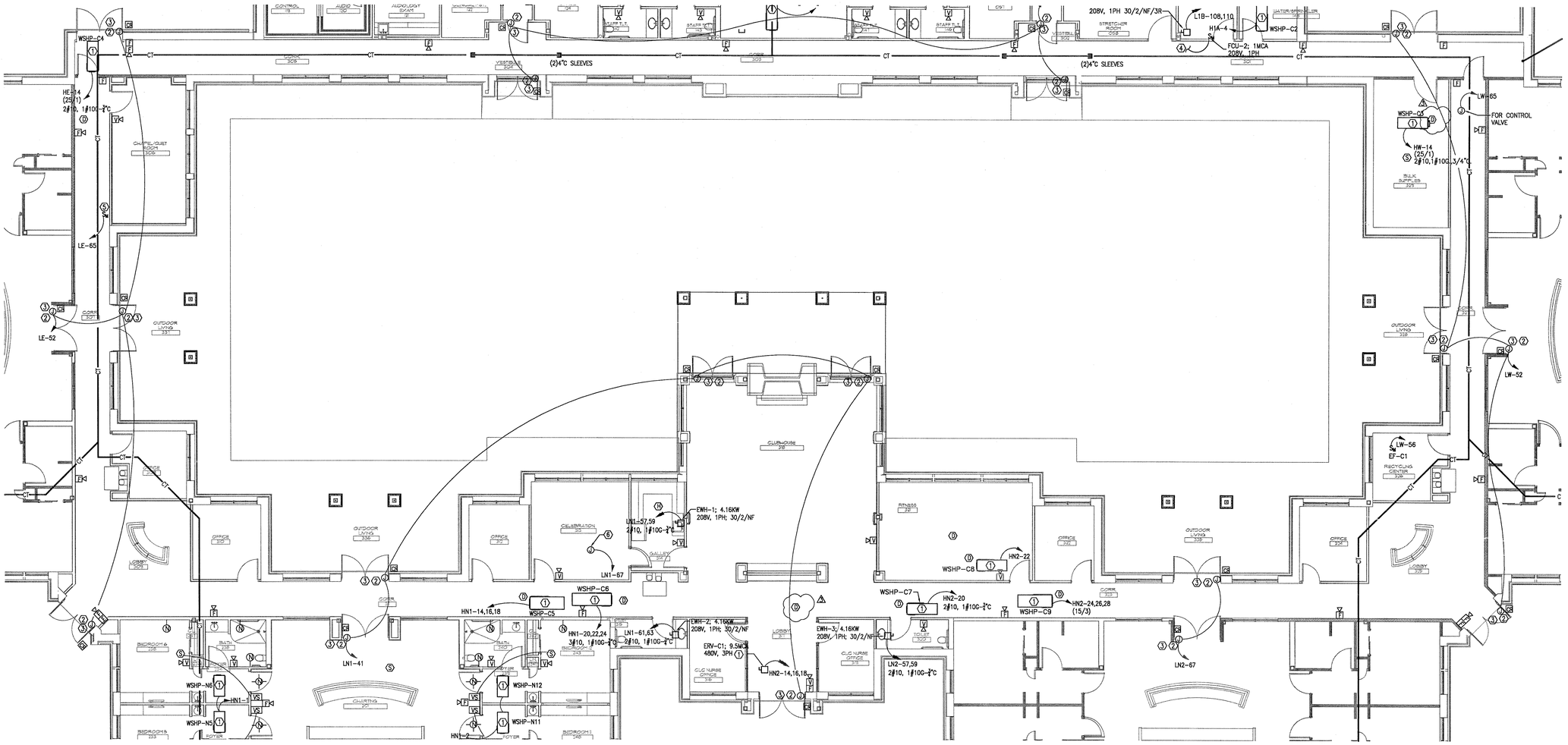


2 E3.12 SYSTEMS PLAN - PHYSICAL PLANT

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



1 E3.12 SYSTEMS PLAN - COMMON AREA

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

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PROJECT NO:
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DATE:
FEB 21TH, 2011

DRAWING TITLE:
SYSTEMS PLAN - COMMON AREA & PHYSICAL PLANT

E3.12

KEYNOTES:

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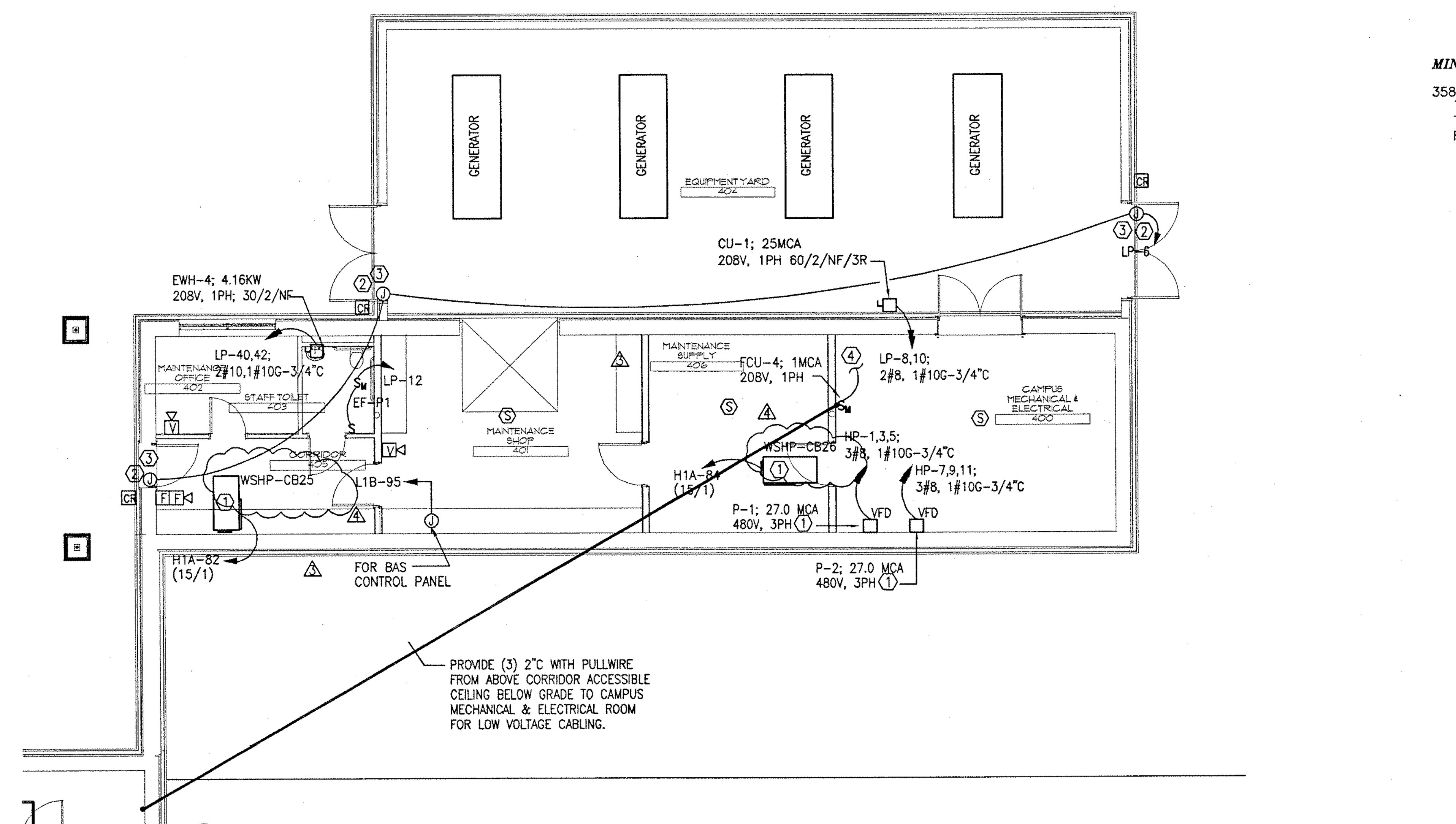
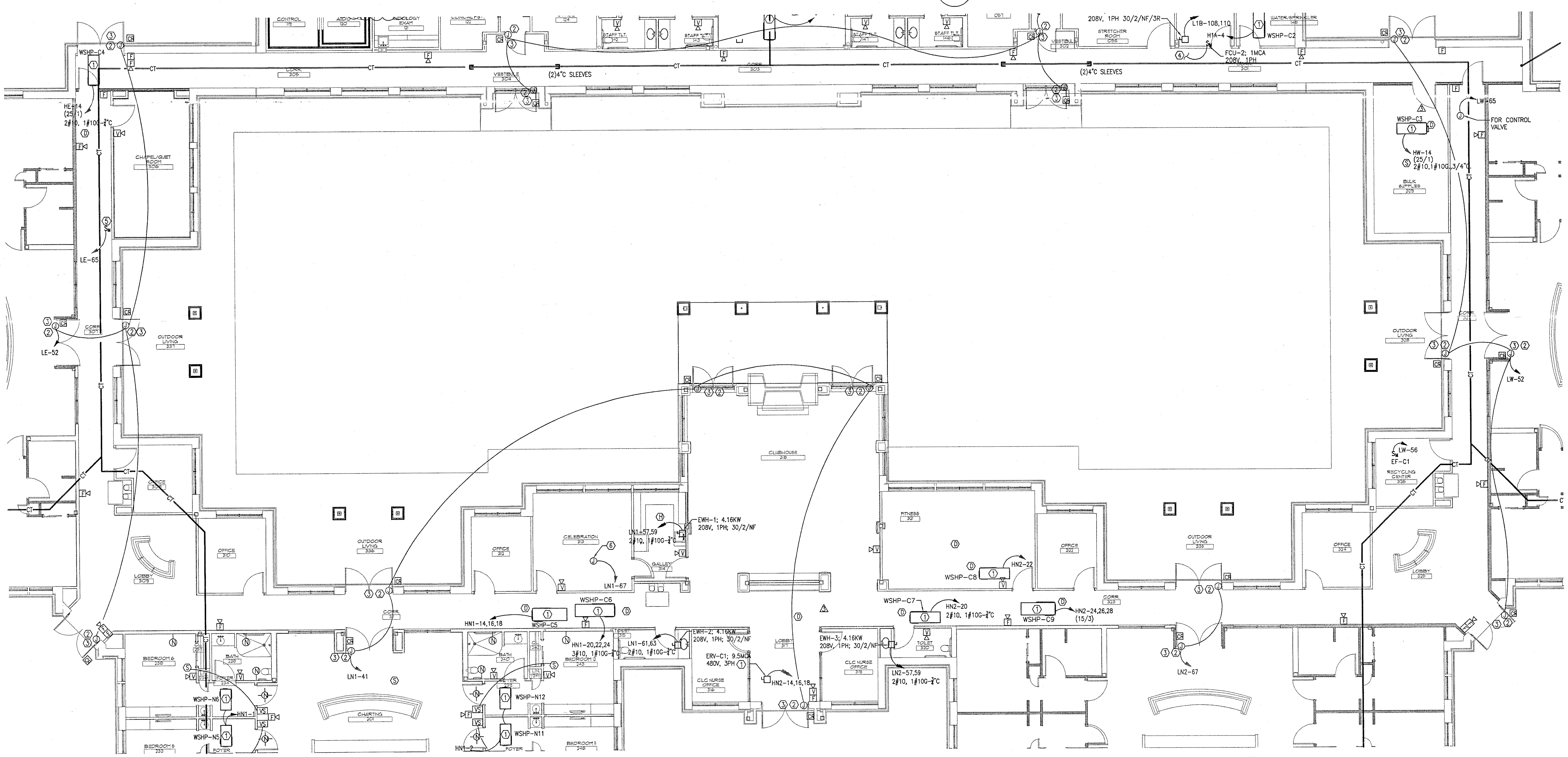


2
E3.12
SYSTEMS PLAN - PHYSICAL PLANT
SCALE: 1/8" = 1'-0"



1
E3.12
SYSTEMS PLAN - COMMON AREA
SCALE: 1/8" = 1'-0"

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DRAWING TITLE: SYSTEMS PLAN - COMMON AREA & PHYSICAL PLANT

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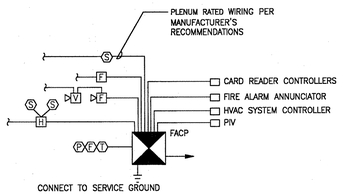
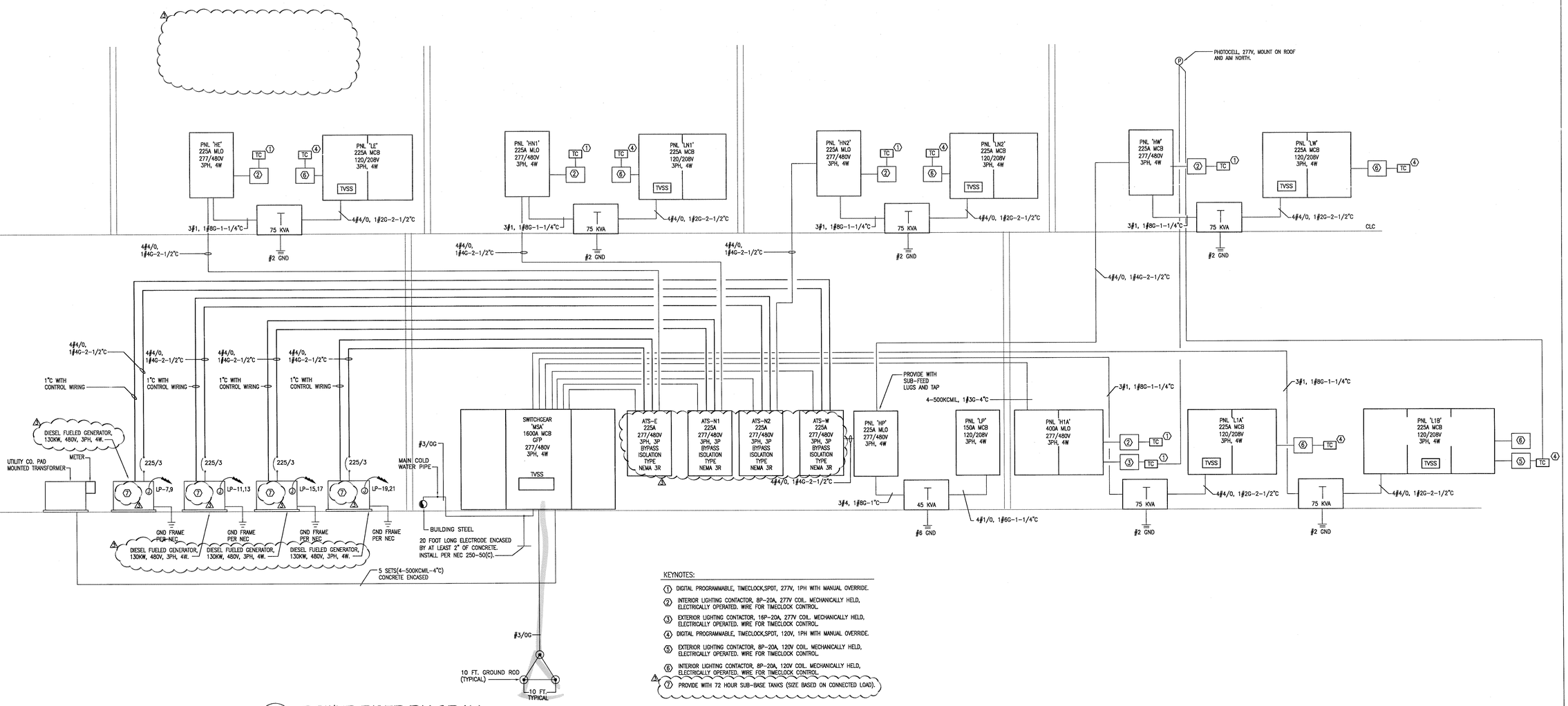


1. INSTALL FIRE ALARM SYSTEM IN ACCORDANCE WITH ADA AND ALL LOCAL CODES.
2. PROVIDING WIRING PER MANUFACTURER'S RECOMMENDATIONS.
3. CONNECT SYSTEM TO HVAC SYSTEM CONTROLLERS FOR SHUTDOWN OF ENTIRE HVAC SYSTEM UPON ALARM.
4. CONNECT ALL TAMPER, FLOW, AND PRESSURE SWITCHES PROVIDED BY SPRINKLER CONTRACTOR. COORDINATE NUMBER OF CONNECTIONS WITH SPRINKLER SYSTEM PROVIDER.

2 / E4.0 FIRE ALARM RISER DIAGRAM
NO SCALE



KEYNOTES:

1. DIGITAL PROGRAMMABLE, TIMECLOCK,SPDT, 277V, 1PH WITH MANUAL OVERRIDE.
2. INTERIOR LIGHTING CONTACTOR, 8P-20A, 277V COIL. MECHANICALLY HELD, ELECTRICALLY OPERATED. WIRE FOR TIMECLOCK CONTROL.
3. EXTERIOR LIGHTING CONTACTOR, 16P-20A, 277V COIL. MECHANICALLY HELD, ELECTRICALLY OPERATED. WIRE FOR TIMECLOCK CONTROL.
4. DIGITAL PROGRAMMABLE, TIMECLOCK,SPDT, 120V, 1PH WITH MANUAL OVERRIDE.
5. EXTERIOR LIGHTING CONTACTOR, 8P-20A, 120V COIL. MECHANICALLY HELD, ELECTRICALLY OPERATED. WIRE FOR TIMECLOCK CONTROL.
6. INTERIOR LIGHTING CONTACTOR, 8P-20A, 120V COIL. MECHANICALLY HELD, ELECTRICALLY OPERATED. WIRE FOR TIMECLOCK CONTROL.
7. PROVIDE WITH 72 HOUR SUB-BASE TANKS (SIZE BASED ON CONNECTED LOAD).

1 / E4.0 POWER RISER DIAGRAM
NO SCALE

TRINKA DAVIS VETERANS VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 19986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/4/11	ADDENDUM #1
3/18/11	ADDENDUM 3

PROJECT NO: 229.0100
DATE: FEB 21TH, 2011
DRAWING TITLE: RISER DIAGRAMS

E4.10

MAIN SWITCHGEAR 'MSA'

MAIN: 1600A | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4
MOUNTING: SURFACE | AIC: 42,000 | NOTES:

CKT #	CIRCUIT BREAKER FRAME	TRIP	POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC
1	225	225	3	PANEL HE	4.3	12.5	1.8	15.1	7.4	0.5
	-	-	-	VIA ATS-E	4.8	13.8	0.0	10.8	4.5	0.5
	-	-	-	-	5.2	12.7	0.2	13.8	6.4	0.3
2	225	225	3	PANEL HN1	2.5	15.0	1.8	19.2	7.4	2.9
	-	-	-	VIA ATS-N1	4.3	15.0	0.0	17.3	4.5	4.7
	-	-	-	-	5.3	15.1	0.0	20.3	6.4	2.4
3	225	225	3	PANEL HN2	5.1	14.4	1.8	21.0	7.4	0.5
	-	-	-	VIA ATS-N2	7.5	13.9	0.0	18.4	4.5	2.6
	-	-	-	-	5.6	12.5	0.0	18.9	6.4	2.4
4	225	225	3	PANEL HW	4.1	12.8	1.9	16.5	7.4	0.5
	-	-	-	VIA ATS-W	4.8	13.1	0.0	10.8	4.5	0.5
	-	-	-	-	5.2	12.7	0.0	13.8	6.4	0.5
5	400	400	3	PANEL H1A	15.5	0.0	18.9	18.4	0.0	22.3
	-	-	-	-	8.4	0.0	17.9	12.2	0.0	22.3
	-	-	-	-	10.7	0.0	20.4	13.3	0.0	22.3
6	100	100	3	PANEL L1A	2.5	19.1	0.0	0.0	0.0	1.4
	-	-	-	VIA TRANSFORMER	3.3	16.6	0.0	0.0	0.0	0.0
	-	-	-	-	1.8	18.4	0.0	0.0	0.0	1.4
7	100	100	3	PANEL L1B	1.5	21.7	0.2	1.2	0.0	6.1
	-	-	-	VIA TRANSFORMER	3.2	20.4	0.2	1.2	0.0	3.8
	-	-	-	-	4.3	21.8	0.0	2.4	0.0	2.5
8	225	225	3	PANEL HP	5.1	17.3	7.8	19.9	7.4	0.5
	-	-	-	-	6.2	16.1	5.9	14.2	4.5	3.0
	-	-	-	-	6.6	15.4	6.0	13.8	6.4	2.5
9				SPACE						
	-	-	-	-						
	-	-	-	-						
10				SPACE						
	-	-	-	-						
	-	-	-	-						
11				SPACE						
	-	-	-	-						
	-	-	-	-						
12				SPACE						
	-	-	-	-						
	-	-	-	-						
					127.8	329.9	84.8	292.5	91.5	106.4

CONNECTED LOAD (K	1032.9			
DEMAND LOAD (KVA)	840.9	PHASE A	1337.7	370.5
		PHASE B	1155.3	320.0
CONNECTED LOAD (A	1242.4	PHASE C	1236.0	342.4
DEMAND LOAD (AMPS	1011.5		AMPS	KVA
AMPACITY REQUIRED	1049.9			

DEMAND LOAD CALCS

LIGHTING		127.80	KVA X	100	%	=	**127.8 KVA**
RECEPTAC	TOTAL	329.94	KVA				
	1ST	10.00	KVA X	100	%	=	**10.0 KVA**
	REMAIN	319.94	KVA X	50	%	=	**160.0 KVA**
MOTORS		84.80	KVA X	100	%	=	**84.8 KVA**
A/C		292.50	KVA X	100	%	=	**292.5 KVA**
KITCHEN		91.50	KVA X	65	%	=	**59.5 KVA**
MISCELLANEOUS		106.40	KVA X	100	%	=	**106.4 KVA**
TOTAL						=	**840.9 KVA**

PANELBOARD SCHEDULE - 'H1A'

MAIN: 400A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC	LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	70/3	X-RAY						22.3				3.4			WSHP-C1	25/1	2
3	--	---						22.3				2.5			WSHP-C2	15/1	4
5	--	---						22.3	3.2						CORRIDOR LIGHTING	20/1	6
7	20/1	CLINIC OFFICE LTS	2.6						3.0						EXTERIOR LIGHTS	20/1	8
9	20/1	CLINIC CORRIDOR LTS	1.4						1.7						EXTERIOR LIGHTS	20/1	10
11	20/1	CLINIC OFFICE LTS	2.8						0.7						EXTERIOR LIGHTS	20/1	12
13	20/1	CLINIC OFFICE LTS	3.2						2.4						EXTERIOR LIGHTS	20/1	14
15	20/1	CLINIC OFFICE LTS	3.1						0.2						MAINTENANCE LTS	20/1	16
17	20/1	CLINIC OFFICE LTS	1.8						0.3						LOADING DOCK LTS	20/1	18
19	20/1	MUTLIPURPOSE LTS	0.8												SPARE	20/1	20
21	20/1	SPARE													SPARE	20/1	22
23	20/1	SPARE													SPARE	20/1	24
25	20/1	SPARE													SPARE	20/1	26
27	20/1	SPARE													SPARE	20/1	28
29	20/1	SPARE							0.2						SITE LIGHTING	20/1	30
31	20/1	SPARE							1.9						SITE LIGHTING	20/2	32
33	20/1	SPARE							1.9						---	--	34
35	20/1	SPARE							1.6						SITE LIGHTING	20/2	36
37	20/1	SPARE							1.6						---	--	38
39	20/1	SPARE							0.1						MONUMENT SIGN	20/1	40
41	20/1	SPARE							0.1						MONUMENT SIGN	20/1	42
		SECTION 2													SECTION 2		
43	20/1	SPARE													SPARE	20/1	44
45	20/1	SPARE													SPARE	20/1	46
47	15/3	ERV-CB1			2.5										SPARE	20/1	48
49	--	---			2.5							2.5			ERV-CB3	15/3	50
51	--	---			2.5							2.5			---	--	52
53	15/3	ERV-CB2			2.5							2.5			---	--	54
55	--	---			2.5										SPARE	20/1	56
57	--	---			2.5										SPARE	20/1	58
59	20/3	WSHP-CB1			3.3										SPARE	20/1	60
61	--	---			3.3							3.2			WSHP-CB10	25/1	62
63	--	---			3.3							2.5			WSHP-CB11	15/1	64
65	25/3	WSHP-CB2			4.5							3.2			WSHP-CB12	25/1	66
67	--	---			4.5							3.2			WSHP-CB13	25/1	68
69	--	---			4.5							2.5			WSHP-CB14	15/1	70
71	15/1	WSHP-CB3			2.5							3.5			WSHP-CB15	25/1	72
73	15/1	WSHP-CB4			2.6							3.5			WSHP-CB16	25/1	74
75	15/1	WSHP-CB5			2.6							1.1			WSHP-CB17	15/1	76
77	15/1	WSHP-CB6			2.6							2.5			WSHP-CB18	15/1	78
79	25/1	WSHP-CB7			3.5							2.6			WSHP-CB19	15/1	80
81	15/1	WSHP-CB8			2.5							1.1			WSHP-CB20	15/1	82
83	15/1	WSHP-CB9			2.5							1.6			WSHP-CB21	15/1	84
LIGHTING:		34.6	15.7	0.0	57.2	0.0	0.0	66.9	18.9	0.0	0.0	43.9	0.0	0.0	CONNECTED LOAD (KV/	202.6	

RECEPTACLES:	0.0				DEMAND LOAD (KVA):	211.3
MOTORS:	57.2	PHASE A	75.1	271.1		
A/C:	43.9	PHASE B	60.8	219.5	CONNECTED LOAD (AM	243.7
		PHASE C	66.7	240.8	DEMAND LOAD (AMPS):	254.1
KITCHEN:	0.0		KVA	AMPS		
MISCELLANEOUS	66.9				AMPACITY REQUIRED:	254.1

PANELBOARD SCHEDULE - 'L1A'

MAIN: 225A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC	LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	TREADMILL		1.0						1.1					RECEPTACLES	20/1	2
3	20/1	RECEPTACLES		0.7						1.1					RECEPTACLES	20/1	4
5	20/1	RECEPTACLES		1.0						1.0					COPIER	20/1	6
7	20/1	FREEZER		1.0						1.2					WATER FEATURE	20/1	8
9	20/1	RECEPTACLES		0.9						0.9					RECEPTACLES	20/1	10
11	20/1	RECEPTACLES		1.0						0.7					RECEPTACLES	20/1	12
13	20/1	RECEPTACLES		0.5						0.7					RECEPTACLES	20/1	14
15	20/1	DENTAL CHAIR		1.0						0.7					RECEPTACLES	20/1	16
17	20/1	DENTAL LIGHT		1.0						0.9					RECEPTACLES	20/1	18
19	20/1	X-RAY		0.5						0.7					RECEPTACLES	20/1	20
21	20/1	RECEPTACLES		0.9						0.7					RECEPTACLES	20/1	22
23	20/1	DENTAL CHAIR		1.0						1.1					RECEPTACLES	20/1	24
25	20/1	DENTAL LIGHT		1.0						0.9					RECEPTACLES	20/1	26
27	20/1	X-RAY		0.5						0.7					RECEPTACLES	20/1	28
29	20/1	RECEPTACLES		0.9						1.1					RECEPTACLES	20/1	30
31	20/1*	LAB PLUG MOLD		1.0						0.7					RECEPTACLES	20/1	32
33	20/1	RECEPTACLES		0.7						0.9					RECEPTACLES	20/1	34
35	20/1	RECEPTACLES		0.7						1.1					RECEPTACLES	20/1	36
37	20/1	RECEPTACLES		0.7						1.1					RECEPTACLES	20/1	38
39	20/1	EWC		0.6						1.1					RECEPTACLES	20/1	40
41	20/1	EWC		0.6											SPARE	20/1	42
		SECTION 2													SECTION 2		
43	20/1	RECEPTACLES		0.9						0.7					RECEPTACLES	20/1	44
45	20/1	RECEPTACLES		0.9						0.7					RECEPTACLES	20/1	46
47	20/1	RECEPTACLES		0.9						0.9					RECEPTACLES	20/1	48
49	20/1	AUDIO BOOTH		1.0						0.5					EXTERIOR RECEPTACLE	20/1	50
51	20/1	AUDIO BOOTH		1.0											SPARE	20/1	52
53	20/1	AUDIO BOOTH		1.0						0.7					EXTERIOR RECEPTACLE	20/1	54
55	20/1	AUDIO BOOTH		1.0											SPARE	20/1	56
57	20/1	AUDIO BOOTH		1.0											SPARE	20/1	58
59	20/1	AUDIO BOOTH		1.0											SPARE	20/1	60
61	20/1	RECEPTACLES		1.1											SPARE	20/1	62
63	20/1	RECEPTACLES		0.9					0.8						VACUUM PUMP	15/2	64
65	20/1	RECEPTACLES		0.9					0.8						---	--	66
67	20/1	RECEPTACLES		0.7					2.5						AIR COMPRESSOR	30/2	68
69	20/1	RECEPTACLES		0.7					2.5						---	--	70
71	20/1	RECEPTACLES		0.9					1.0						MED GAS/WATER FILTE	20/1	72
73	20/1	CARD READER		1.1											SPARE	20/1	74
75	20/1*	FOUNTAIN LIGHTS													SPARE	20/1	76
77	20/2*	PUMP						1.4							SPARE	20/1	78
79	--	---						1.4							SPARE	20/1	80
81	20/1	SPARE													SPARE	20/1	82
83	20/1	SPARE													SPARE	20/1	84
LIGHTING:		7.6	0.0	32.2	0.0	0.0	0.0	2.8	7.6	21.9	0.0	0.0	0.0	0.0	CONNECTED LOAD (KV/	64.5	

RECEPTACLES:	54.1				DEMAND LOAD (KVA):	44.4
MOTORS:	0.0	PHASE A	23.0	191.7		
A/C:	0.0	PHASE B	19.9	165.8	CONNECTED LOAD (AM	179.0
		PHASE C	21.6	180.0	DEMAND LOAD (AMPS):	123.1
KITCHEN:	0.0		KVA	AMPS		
MISCELLANEOUS	2.8	NOTE: *CIRCUIT BREAKER SHALL BE GFI TYPE			AMPACITY REQUIRED:	123.1

PANELBOARD SCHEDULE - 'L1B'

MAIN: 225A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC	LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	AUTO DOORS		1.0						1.1					RECEPTACLES	20/1	2
3	20/1	RECEPTACLES		1.1						1.1					RECEPTACLES	20/1	4
5	20/1	RECEPTACLES		0.9						0.9					RECEPTACLES	20/1	6
7	20/1	RECEPTACLES		1.3						0.5					RECEPTACLES	20/1	8
9	20/1	RECEPTACLES		0.7						0.7					RECEPTACLES	20/1	10
11	20/1	RECEPTACLES		1.1						1.0					REFRIGERATOR	20/1	12
13	20/1	RECEPTACLES		0.9											SPARE	20/1	14
15	20/1	DIGITAL SCALE		0.5											SPARE	20/1	16
17	20/1	RECEPTACLES		0.7						0.5					LAB PLUGMOLD	20/1*	18
19	20/1	RECEPTACLES		1.1						0.5					LAB PLUGMOLD	20/1*	20
21	20/1	RECEPTACLES		0.7						0.5					LAB PLUGMOLD	20/1*	22
23	20/1	RECEPTACLES		0.7						0.5					LAB PLUGMOLD	20/1*	24
25	20/1	RECEPTACLES		0.9						0.5					LAB PLUGMOLD	20/1*	26
27	20/1	RECEPTACLES		0.9						0.5					RECEPTACLES	20/1	28
29	20/1	RECEPTACLES		0.7						1.0					REFRIGERATOR	20/1	30
31	20/1	RECEPTACLES		0.7						1.2					OMNI-CELL	20/1	32
33	20/1	DIGITAL SCALE		0.5						1.2					OMNI-CELL	20/1	34
35	20/1	CARD READER		0.7						1.2					IMAGINING UNIT	20/1	36
37	20/1	CP-1						1.2		0.9					RECEPTACLES	20/1	38
39	20/1	GWH-1						1.0		1.1					RECEPTACLES	20/1	40
41	20/1	CARD READER		0.9						1.4					RECEPTACLES	20/1	42
		SECTION 2													SECTION 2		
43	20/1	RECEPTACLES		0.7						1.1					RECEPTACLES	20/1	44
45	20/1	RECEPTACLES		0.7						0.9					RECEPTACLES	20/1	46
47	20/1	RECEPTACLES		0.9											SPARE	20/1	48
49	20/1	RECEPTACLES		0.9						0.9					RECEPTACLES	20/1	50
51	20/1	RECEPTACLES		0.7						1.1					RECEPTACLES	20/1	52
53	20/1	RECEPTACLES		0.9						0.9					RECEPTACLES	20/1	54
55	20/1	RECEPTACLES		0.9						0.9					RECEPTACLES	20/1	56
57	20/1	RECEPTACLES		0.9						0.7					RECEPTACLES	20/1	58
59	20/1	RECEPTACLES		0.9						0.7					RECEPTACLES	20/1	60
61	20/1	DIGITAL SCALE		0.5						0.7					RECEPTACLES	20/1	62
63	20/1	RECEPTACLES		0.7						1.1					RECEPTACLES	20/1	64
65	20/1	RECEPTACLES		0.7						1.0					DISHWASHER	20/1	66
67	20/1	RECEPTACLES		0.7						1.0					BREAK RM RECEPTACL	20/1	68
69	20/1	RECEPTACLES		0.7						1.2					MICROWAVE	20/1	70
71	20/1	RECEPTACLES		0.5						1.0					REFRIGERATOR	20/1	72
73	20/1	RECEPTACLES		0.9						1.0					REFRIGERATOR	20/1	74
75	20/1	CONF/GROUP RM LTS	1.2						1.2						MULTI-PURPOSE LTS	20/1	76
77	20/1	RADIOLOGY LTS	1.4						1.0						WAITING RM PENDANT	20/1	78
79	20/1	EXAM LIGHTS	0.8						0.7						CORRIDOR PEND LTS	20/1	80
81	20/1	EYE EXAM LTS	0.8												SPARE	20/1	82
83	20/1	LED WAITING RM LTS	1.9							0.6					EWC	20/1	84
		SECTION 3													SECTION 3		
85	20/1	EXTERIOR SCONCES												2.0	PUMP	30/2*	86
87	20/1	OUTSIDE CEILING FANS		1.2										2.0	---	--	88
89	20/1	OUTSIDE CEILING FANS		0.8										2.0	PUMP	30/2*	90
91	20/1	CORR PENDANT NT LTS		0.2										2.0	---	--	92
93	20/1	SUBWAIT LTS		0.1						0.9					RECEPTACLES	20/1	94
95	20/1	BAS CONTROL PANEL						0.2		0.7					RECEPTACLES	20/1	96
97	20/1	ZONE DAMPER XFMR						0.6		0.7					RECEPTACLES	20/1	98
99	20/1	ZONE DAMPER XFMR						0.3				1.2			CU-4/FCU-4	20/2	100
101	20/1	ZONE DAMPER XFMR						0.3				1.2			---	--	102
103	20/1	ZONE DAMPER XFMR						0.3							SPARE	20/1	104
105	20/1	HEAT TRACE						0.5							SPARE	20/1	106
107	20/1	HEAT TRACE										1.2			CU-2/FCU-2	20/2	108
109	20/1	EF-CB1			0.2							1.2			---	--	110
111		SPACE									0.2				MOTORIZED DAMPER	20/1	112
113		SPACE													SPACE		114
115		SPACE													SPACE		116
117		SPACE													SPACE		118
119		SPACE													SPACE		120
121		SPACE													SPACE		122
123		SPACE													SPACE		124
125		SPACE													SPACE		126
LIGHTING:		9.0	6.1	30.5	0.2	0.0	0.0	4.4	2.9	33.4	0.2	4.8	0.0	8.0	CONNECTED LOAD (KV/	90.5	

RECEPTACLES:	63.9				DEMAND LOAD (KVA):	65.8
MOTORS:	0.4	PHASE A	30.7	255.5		
A/C:	4.8	PHASE B	28.8	240.0	CONNECTED LOAD (AM	251.1
		PHASE C	31.0	258.3	DEMAND LOAD (AMPS):	182.6
KITCHEN:	0.0		KVA	AMPS		
MISCELLANEOUS	12.4	NOTE: *CIRCUIT BREAKER SHALL BE GFI TYPE			AMPACITY REQUIRED:	182.6

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CARROLLTON GA 30117

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PROJECT NO: 229.01.00

DATE: FEB 21TH, 2011

DRAWING TITLE: PANEL SCHEDULES

E4.11

MINICK ENGINEERING, INC.
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Tucker, Georgia 30084
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PEACOCK ARCHITECTS
2000 RIVEREDGE PARKWAY
SUITE SEVEN HUNDRED
ATLANTA GEORGIA 30328
404-214-5200 PHONE
404-214-5208 FAX

MAIN SWITCHGEAR 'MSA'

MAIN: 1600A | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4
MOUNTING: SURFACE | AIC: 42,000 | NOTES:

CKT #	CIRCUIT BREAKER FRAME	TRIP	POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	PHASE A	B	C
1	225	225	3	PANEL HE	4.3	12.5	1.8	15.3	7.4	0.5			
	-	-	-	VIA ATS-E	4.8	13.8	0.0	10.8	4.5	0.5			
	-	-	-	-	5.2	12.7	0.2	13.8	6.4	0.3			
2	225	225	3	PANEL HN1	2.5	15.0	1.8	19.2	7.4	2.9			
	-	-	-	VIA ATS-N1	4.3	15.0	0.0	17.3	4.5	4.7			
	-	-	-	-	5.3	15.1	0.0	20.3	6.4	2.4			
3	225	225	3	PANEL HN2	5.1	14.4	1.8	21.0	7.4	0.5			
	-	-	-	VIA ATS-N2	7.5	13.9	0.0	18.4	4.5	2.6			
	-	-	-	-	5.6	12.5	0.0	18.9	6.4	2.4			
4	225	225	3	PANEL HW	4.1	12.8	1.9	16.7	7.4	0.5			
	-	-	-	VIA ATS-W	4.8	13.1	0.0	10.8	4.5	0.5			
	-	-	-	-	5.2	12.7	0.0	13.8	6.4	0.5			
5	400	400	3	PANEL H1A	15.5	0.0	19.2	15.1	0.0	22.3			
	-	-	-	-	8.4	0.0	16.2	10.4	0.0	22.3			
	-	-	-	-	10.7	0.0	23.6	9.6	0.0	22.3			
6	100	100	3	PANEL L1A	2.5	19.1	0.0	0.0	0.0	1.4			
	-	-	-	VIA TRANSFORMER	3.3	16.6	0.0	0.0	0.0	0.0			
	-	-	-	-	1.8	18.4	0.0	0.0	0.0	1.4			
7	100	100	3	PANEL L1B	1.5	21.7	1.3	1.2	0.0	6.1			
	-	-	-	VIA TRANSFORMER	3.2	20.4	2.0	1.2	0.0	3.8			
	-	-	-	-	4.3	21.8	1.1	2.4	0.0	2.5			
8	225	225	3	PANEL HP	5.1	17.3	7.8	20.1	7.4	0.5			
	-	-	-	-	6.2	16.1	5.9	14.2	4.5	3.0			
	-	-	-	-	6.6	15.4	6.0	13.8	6.4	2.5			
9				SPACE									
	-	-	-	-									
	-	-	-	-									
10				SPACE									
	-	-	-	-									
	-	-	-	-									
11				SPACE									
	-	-	-	-									
	-	-	-	-									
12				SPACE									
	-	-	-	-									
	-	-	-	-									
					127.8	329.9	90.6	284.3	91.5	106.4			

CONNECTED LOAD (KVA):	1030.5				
DEMAND LOAD (KVA):	838.5	PHASE A	1333.0		369.2
		PHASE B	1149.2		318.3
CONNECTED LOAD (AMPS)	1229.5	PHASE C	1238.2		343.0
DEMAND LOAD (AMPS):	1008.6		AMPS		KVA
AMPACITY REQUIRED:	1047.0				

DEMAND LOAD CALCS

LIGHTING	127.80	KVAX	100 %	=	**127.8 KVA**
RECEPTACLES TOTAL	329.94	KVA			
1ST	10.00	KVAX	100 %	=	**10.0 KVA**
REMAIN	319.94	KVAX	50 %	=	**160.0 KVA**
MOTORS	90.60	KVAX	100 %	=	**90.6 KVA**
A/C	284.30	KVAX	100 %	=	**284.3 KVA**
KITCHEN	91.50	KVAX	65 %	=	**59.5 KVA**
MISCELLANEOUS	106.40	KVAX	100 %	=	**106.4 KVA**
TOTAL				=	**838.5 KVA**

PANELBOARD SCHEDULE - 'H1A'

MAIN: 400A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4
MOUNTING: SURFACE | AIC: 22,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	70/3	X-RAY						22.3							3.4			WSHP-C1	25/1	2
3	–	—						22.3							2.5			WSHP-C2	15/1	4
5	–	—						22.3				3.2						CORRIDOR LIGHTING	20/1	6
7	20/1	CLINIC OFFICE LTS	2.6									3.0						EXTERIOR LIGHTS	20/1	8
9	20/1	CLINIC CORRIDOR LTS	1.4									1.7						EXTERIOR LIGHTS	20/1	10
11	20/1	CLINIC OFFICE LTS	2.8									0.7						EXTERIOR LIGHTS	20/1	12
13	20/1	CLINIC OFFICE LTS	3.2									2.4						EXTERIOR LIGHTS	20/1	14
15	20/1	CLINIC OFFICE LTS	3.1									0.2						MAINTENANCE LTS	20/1	16
17	20/1	CLINIC OFFICE LTS	1.8									0.3						LOADING DOCK LTS	20/1	18
19	20/1	MUTLIPURPOSE LTS	0.8															SPARE	20/1	20
21	20/1	SPARE																SPARE	20/1	22
23	20/1	SPARE																SPARE	20/1	24
25	20/1	SPARE																SPARE	20/1	26
27	20/1	SPARE																SPARE	20/1	28
29	20/1	SPARE										0.2						SITE LIGHTING	20/1	30
⚠ 31	20/1	SPARE										1.9						SITE LIGHTING	20/2	32
33	15/1	WSHP-CB20			1.1							1.9						—	–	34
35	15/1	WSHP-CB21			0.8							1.6						SITE LIGHTING	20/2	36
37	15/1	WSHP-CB23			0.8							1.6						—	–	38
39	15/1	WSHP-CB24			0.8							0.1						MONUMENT SIGN	20/1	40
41	15/1	WSHP-CB22			1.1							0.1						MONUMENT SIGN	20/1	42
		SECTION 2																SECTION 2		
43	20/1	SPARE																SPARE	20/1	44
45	20/1	SPARE																SPARE	20/1	46
47	15/3	ERV-CB1			2.7													SPARE	20/1	48
49	–	—			2.7										2.7			ERV-CB3	15/3	50
⚠ 51	–	—			2.7										2.7			—	–	52 ⚠
53	20/3	ERV-CB2			3.1										2.7			—	–	54
55	–	—			3.1													SPARE	20/1	56
57	–	—			3.1													SPARE	20/1	58
59	20/3	WSHP-CB1			3.3													SPARE	20/1	60
61	–	—			3.3										2.5			WSHP-CB10	15/1	62
63	–	—			3.3										2.5			WSHP-CB11	15/1	64
65	20/3	WSHP-CB2			3.3										1.1			WSHP-CB12	15/1	66
67	–	—			3.3										2.5			WSHP-CB13	15/1	68
69	–	—			3.3										0.8			WSHP-CB14	15/1	70
71	25/1	WSHP-CB3			3.4										2.5			WSHP-CB15	15/1	72
73	15/1	WSHP-CB4			2.5										3.2			WSHP-CB16	25/1	74
75	15/1	WSHP-CB5			0.8										0.8			WSHP-CB17	15/1	76
77	25/1	WSHP-CB6			3.4										2.5			WSHP-CB18	15/1	78
79	25/1	WSHP-CB7			3.5										0.8			WSHP-CB19	15/1	80
81	15/1	WSHP-CB8			1.1										1.1			WSHP-CB25	15/1	82
83	15/1	WSHP-CB9			2.5										0.8			WSHP-CB26	15/1	84
LIGHTING:		34.6	15.7	0.0	59.0	0.0	0.0	66.9				18.9	0.0	0.0	35.1	0.0	0.0	CONNECTED LOAD (KVA):		165.6
RECEPTACLES:		0.0																DEMAND LOAD (KVA):		204.3
MOTORS:		59.0							PHASE A	72.1	260.3									
A/C:		35.1							PHASE B	57.3	206.9							CONNECTED LOAD (AMPS):		235.3
									PHASE C	66.2	239.0							DEMAND LOAD (AMPS):		245.7
KITCHEN:		0.0								KVA	AMPS									
MISCELLANEOUS:		66.9																AMPACITY REQUIRED:		245.7

PANELBOARD SCHEDULE - 'L1A'

MAIN: 225A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4
MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	TREADMILL		1.0									1.1					RECEPTACLES	20/1	2
3	20/1	RECEPTACLES		0.7									1.1					RECEPTACLES	20/1	4
5	20/1	RECEPTACLES		1.0									1.0					COPIER	20/1	6
7	20/1	FREEZER		1.0									1.2					WATER FEATURE	20/1	8
9	20/1	RECEPTACLES		0.9									0.9					RECEPTACLES	20/1	10
11	20/1	RECEPTACLES		1.0									0.7					RECEPTACLES	20/1	12
13	20/1	RECEPTACLES		0.5									0.7					RECEPTACLES	20/1	14
15	20/1	DENTAL CHAIR		1.0									0.7					RECEPTACLES	20/1	16
17	20/1	DENTAL LIGHT		1.0									0.9					RECEPTACLES	20/1	18
19	20/1	X-RAY		0.5									0.7					RECEPTACLES	20/1	20
21	20/1	RECEPTACLES		0.9									0.7					RECEPTACLES	20/1	22
23	20/1	DENTAL CHAIR		1.0									1.1					RECEPTACLES	20/1	24
25	20/1	DENTAL LIGHT		1.0									0.9					RECEPTACLES	20/1	26
27	20/1	X-RAY		0.5									0.7					RECEPTACLES	20/1	28
29	20/1	RECEPTACLES		0.9									1.1					RECEPTACLES	20/1	30
31	20/1*	LAB PLUG MOLD		1.0									0.7					RECEPTACLES	20/1	32
33	20/1	RECEPTACLES		0.7									0.9					RECEPTACLES	20/1	34
35	20/1	RECEPTACLES		0.7									1.1					RECEPTACLES	20/1	36
37	20/1	RECEPTACLES		0.7									1.1					RECEPTACLES	20/1	38
39	20/1	EWC		0.6									1.1					RECEPTACLES	20/1	40
41	20/1	EWC		0.6														SPARE	20/1	42
		SECTION 2																SECTION 2		
43	20/1	RECEPTACLES		0.9									0.7					RECEPTACLES	20/1	44
45	20/1	RECEPTACLES		0.9									0.7					RECEPTACLES	20/1	46
47	20/1	RECEPTACLES		0.9									0.9					RECEPTACLES	20/1	48
49	20/1	AUDIO BOOTH		1.0									0.5					EXTERIOR RECEPTACLES	20/1	50
51	20/1	AUDIO BOOTH		1.0														SPARE	20/1	52
53	20/1	AUDIO BOOTH		1.0									0.7					EXTERIOR RECEPTACLES	20/1	54 ⚠
55	20/1	AUDIO BOOTH		1.0														SPARE	20/1	56
57	20/1	AUDIO BOOTH		1.0														SPARE	20/1	58
59	20/1	AUDIO BOOTH		1.0														SPARE	20/1	60
61	20/1	RECEPTACLES		1.1														SPARE	20/1	62
63	20/1	RECEPTACLES		0.9								0.8						VACUUM PUMP	15/2	64
65	20/1	RECEPTACLES		0.9								0.8						—	–	66
67	20/1	RECEPTACLES		0.7								2.5						AIR COMPRESSOR	30/2	68
69	20/1	RECEPTACLES		0.7								2.5						—	–	70
71	20/1	RECEPTACLES		0.9								1.0						MED GAS/WATER FILTER	20/1	72 ⚠
73	20/1	CARD READER		1.1														SPARE	20/1	74
75	20/1*	FOUNTAIN LIGHTS																SPARE	20/1	76
77	20/2*	PUMP						1.4										SPARE	20/1	78
79	–	—						1.4										SPARE	20/1	80
81	20/1	SPARE																SPARE	20/1	82
83	20/1	SPARE																SPARE	20/1	84
LIGHTING:		7.6	0.0	32.2	0.0	0.0	0.0	2.8				7.6	21.9	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):		64.5
RECEPTACLES:		54.1																DEMAND LOAD (KVA):		44.4
MOTORS:		0.0							PHASE A	23.0	191.7									
A/C:		0.0							PHASE B	19.9	165.8							CONNECTED LOAD (AMPS):		179.0
									PHASE C	21.6	180.0							DEMAND LOAD (AMPS):		123.1
KITCHEN:		0.0								KVA	AMPS									
MISCELLANEOUS:		2.8	NOTE: *CIRCUIT BREAKER SHALL BE GFI TYPE															AMPACITY REQUIRED:		123.1

PANELBOARD SCHEDULE - 'L1B'

MAIN: 225A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4
MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	AUTO DOORS	1.0										1.1					RECEPTACLES	20/1	2
3	20/1	RECEPTACLES	1.1										1.1					RECEPTACLES	20/1	4
5	20/1	RECEPTACLES	0.9										0.9					RECEPTACLES	20/1	6
7	20/1	RECEPTACLES	1.3										0.5					RECEPTACLES	20/1	8
9	20/1	RECEPTACLES	0.7										0.7					RECEPTACLES	20/1	10
11	20/1	RECEPTACLES	1.1										1.0					REFRIGERATOR	20/1	12
13	20/1	RECEPTACLES	0.9															SPARE	20/1	14
15	20/1	DIGITAL SCALE	0.5															SPARE	20/1	16
17	20/1	RECEPTACLES	0.7										0.5					LAB PLUGMOLD	20/1*	18
19	20/1	RECEPTACLES	1.1										0.5					LAB PLUGMOLD	20/1*	20
21	20/1	RECEPTACLES	0.7										0.5					LAB PLUGMOLD	20/1*	22
23	20/1	RECEPTACLES	0.7										0.5					LAB PLUGMOLD	20/1*	24
25	20/1	RECEPTACLES	0.9										0.5					LAB PLUGMOLD	20/1*	26
27	20/1	RECEPTACLES	0.9										0.5					RECEPTACLES	20/1	28
29	20/1	RECEPTACLES	0.7										1.0					REFRIGERATOR	20/1	30
31	20/1	RECEPTACLES	0.7										1.2					OMNI-CELL	20/1	32
33	20/1	DIGITAL SCALE	0.5										1.2					OMNI-CELL	20/1	34
35	20/1	CARD READER	0.7										1.2					IMAGINING UNIT	20/1	36
37	20/1	CP-1				1.2							0.9					RECEPTACLES	20/1	38
39	20/1	GWH-1				1.0							1.1					RECEPTACLES	20/1	40
41	20/1	CARD READER	0.9										1.4					RECEPTACLES	20/1	42
		SECTION 2																SECTION 2		
43	20/1	RECEPTACLES		0.7									1.1					RECEPTACLES	20/1	44
45	20/1	RECEPTACLES		0.7									0.9					RECEPTACLES	20/1	46
47	20/1	RECEPTACLES		0.9														SPARE	20/1	48
49	20/1	RECEPTACLES		0.7									0.9					RECEPTACLES	20/1	50
51	20/1	RECEPTACLES		0.9									1.1					RECEPTACLES	20/1	52
53	20/1	RECEPTACLES		0.9									0.9					RECEPTACLES	20/1	54
55	20/1	RECEPTACLES		0.9									0.9					RECEPTACLES	20/1	56
57	20/1	RECEPTACLES		0.9									0.7					RECEPTACLES	20/1	58
59	20/1	RECEPTACLES		0.9									0.7					RECEPTACLES	20/1	60
61	20/1	DIGITAL SCALE		0.5									0.7					RECEPTACLES	20/1	62
63	20/1	RECEPTACLES		0.7									1.1					RECEPTACLES	20/1	64
65	20/1	RECEPTACLES		0.7									1.0					DISHWASHER	20/1	66
67	20/1	RECEPTACLES		0.7									1.0					BREAK RM RECEPTACLE	20/1	68
69	20/1	RECEPTACLES		0.7									1.2					MICROWAVE	20/1	70
71	20/1	RECEPTACLES		0.5									1.0					REFRIGERATOR	20/1	72
73	20/1	RECEPTACLES		0.9									1.0					REFRIGERATOR	20/1	74
75	20/1	CONF/GROUP RM LTS	1.2															MULTI-PURPOSE LTS	20/1	76
77	20/1	RADIOLOGY LTS	1.4									1.0						WAITING RM PENDANT	20/1	78
79	20/1	EXAM LIGHTS	0.8									0.7						CORRIDOR PEND LTS	20/1	80
81	20/1	EYE EXAM LTS	0.8															SPARE	20/1	82
83	20/1	LED WAITING RM LTS	1.9										0.6					EWC	20/1	84
		SECTION 3																SECTION 3		
85	20/1	EXTERIOR SCONCES															2.0	PUMP	30/2*	86
87	20/1	OUTSIDE CEILING FANS	1.2															—	–	88
89	20/1	OUTSIDE CEILING FANS	0.8														2.0	PUMP	30/2*	90
91	20/1	CORR PENDANT NT LTS	0.2														2.0	—	–	92
93	20/1	SUBWAIT LTS	0.1									0.9						RECEPTACLES	20/1	94
95	20/1	BAS CONTROL PANEL					0.2					0.7						RECEPTACLES	20/1	96
97	20/1	ZONE DAMPER XFMR					0.6					0.7						RECEPTACLES	20/1	98
99	20/1	ZONE DAMPER XFMR					0.3								1.2			CU-4/FCU-4	20/2	100
101	20/1	ZONE DAMPER XFMR					0.3								1.2			—	–	102 ⚠
103	20/1	ZONE DAMPER XFMR					0.3											SPARE	20/1	104
105	20/1	HEAT TRACE					0.5											SPARE	20/1	106
107	20/1	HEAT TRACE													1.2			CU-2/FCU-2	20/2	108
⚠ 109	20/1	EF-CB1			0.2										1.2			—	–	110
111	20/1	VF-7			0.9							0.7						VF-8, VF-9	20/1	112 ⚠
113	20/1	VF-1; VF-2			1.1													SPACE		114
115	20/1	VF-4, VF-5, VF-6			1.1													SPACE		116
117	20/1	VF-3			0.4													SPACE		118
119		SPACE																SPACE		120
121		SPACE																SPACE		122
123		SPACE																SPACE		124
125		SPACE																SPACE		126
LIGHTING:		9.0	6.1	30.5	3.7	0.0	0.0	4.4				2.9	33.4	0.7	4.8	0.0	8.0	CONNECTED LOAD (KVA):		94.5
RECEPTACLES:		63.9																DEMAND LOAD (KVA):		69.8
MOTORS:		4.4							PHASE A	31.8	264.7									
A/C:		4.8							PHASE B	30.6	255.0							CONNECTED LOAD (AMPS):		262.2
									PHASE C	32.1	267.5							DEMAND LOAD (AMPS):		193.7
KITCHEN:		0.0								KVA	AMPS									
MISCELLANEOUS:		12.4	NOTE: *CIRCUIT BREAKER SHALL BE GFI TYPE															AMPACITY REQUIRED:		193.7

TRINKA DAVIS YETERAN'S VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10984 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/4/11	ADDENDUM 4
3/18/11	ADDENDUM 3
4/28/11	REVISION 1

PROJECT NO: 229.01.00
DATE: FEB 21TH, 2011
DRAWING TITLE: PANEL SCHEDULES

E4.11

MINICK ENGINEERING, INC.
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Tucker, Georgia 30084
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PEACOCK ARCHITECTS
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404-214-5200 PHONE
404-214-5208 FAX

PANELBOARD SCHEDULE - 'HN1'

MAIN: 225A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	15/1	WSHP-N6; WSHP-N5				1.6							1.9			WSHP-N12; WSHP-N11	15/1	2
3	15/1	WSHP-N4; WSHP-N3				1.6							2.2			WSHP-N10; WSHP-N9	15/1	4
5	15/1	WSHP-N2; WSHP-N1				1.6							2.2			WSHP-N8; WSHP-N7	15/1	6
7	25/3	WHSP-N13				4.1							2.4			ERV-1N1	15/3	8
9	--	--				4.1							2.4			---	--	10
11	--	--				4.1							2.4			---	--	12
13	25/1	WSHP-N14				3.2							1.9			WSHP-C5	15/3	14
15	20/1	BEDROOM/OFFICE LIGH	3.0										1.9			---	--	16
17	20/1	BEDROOM/COMMON LI	3.5										1.9			---	--	18
19	20/1	SPARE											4.1			WSHP-C6	25/3	20
21	20/1	SPARE											4.1			---	--	22
23	20/1	COMMON LIGHTING	0.7										4.1			---	--	24
25	20/1	SPARE														SPARE	20/1	26
27	20/1	SPARE														SPARE	20/1	28
29	20/1	SPARE														SPARE	20/1	30
31	20/1	SPARE														SPARE	20/1	32
33	20/1	SPARE														SPARE	20/1	34
35	20/1	SPARE											3.0			UH-1	20/1	36
37	20/1	SPARE								2.5	15.0	1.8	0.0	7.4	2.9	PANEL LN1	100/3	38
39	20/1	SPARE								1.3	15.0	0.0	1.0	4.5	4.7	VIA TRANSFORMER	--	40
41	20/1	SPARE								1.1	15.1	0.0	1.0	6.4	2.4	---	--	42
LIGHTING:		12.1	7.2	0.0	0.0	20.3	0.0	0.0		4.9	45.0	1.8	36.5	18.3	10.0	CONNECTED LOAD (KV/	144.0	
RECEPTACLES:		45.0														DEMAND LOAD (KVA):	123.1	
MOTORS:		1.8						PHASE A	48.8	176.2								
A/C:		56.8						PHASE B	45.8	165.2						CONNECTED LOAD (AM	173.2	
								PHASE C	49.5	178.6						DEMAND LOAD (AMPS):	148.1	
KITCHEN:		18.3							KVA	AMPS								
MISCELLANEOUS		10.0														AMPACITY REQUIRED:	148.1	

PANELBOARD SCHEDULE - 'HN2'

MAIN: 225A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	15/1	WSHP-N6; WSHP-N5				1.6							1.9			WSHP-N12; WSHP-N11	15/1	2
3	15/1	WSHP-N4; WSHP-N3				1.6							2.2			WSHP-N10; WSHP-N9	15/1	4
5	15/1	WSHP-N2; WSHP-N1				1.6							2.2			WSHP-N8; WSHP-N7	15/1	6
7	25/3	WHSP-N13				4.1							2.5			ERV-2N1	15/3	8
9	--	--				4.1							2.5			---	--	10
11	--	--				4.1							2.5			---	--	12
13	25/1	WSHP-N14				3.2							2.4			ERV-C1	15/3	14
15	20/1	BEDROOM/OFFICE LIGH	2.6										2.4			---	--	16
17	20/1	BEDROOM/COMMON LI	3.5										2.4			---	--	18
19	20/1	CORRIDOR LIGHTING	2.4										3.2			WSHP-C7	25/1	20
21	20/1	COMMON AREA LIGHTIN	2.6										2.5			WSHP-C8	15/1	22
23	20/1	COMMON LIGHTING	0.7										2.1			WSHP-C9	15/3	24
25	20/1	SPARE											2.1			---	--	26
27	20/1	SPARE											2.1			---	--	28
29	20/1	SPARE														SPARE	20/1	30
31	20/1	SPARE														SPARE	20/1	32
33	20/1	SPARE														SPARE	20/1	34
35	20/1	SPARE											3.0			UH-1	20/1	36
37	20/1	SPARE								2.7	14.4	1.8	0.0	7.4	0.5	PANEL LN2	100/3	38
39	20/1	SPARE								2.3	13.9	0.0	1.0	4.5	2.6	VIA TRANSFORMER	--	40
41	20/1	SPARE								1.4	12.5	0.0	1.0	6.4	2.4	---	--	42
LIGHTING:		18.2	11.8	0.0	0.0	20.3	0.0	0.0		6.4	40.7	1.8	38.0	18.3	5.5	CONNECTED LOAD (KV/	142.8	
RECEPTACLES:		40.7														DEMAND LOAD (KVA):	125.6	
MOTORS:		1.8						PHASE A	50.2	181.2								
A/C:		58.3						PHASE B	46.9	169.2						CONNECTED LOAD (AM	171.8	
								PHASE C	45.8	165.2						DEMAND LOAD (AMPS):	151.1	
KITCHEN:		18.3							KVA	AMPS								
MISCELLANEOUS		5.5														AMPACITY REQUIRED:	151.1	

PANELBOARD SCHEDULE - 'HE'

MAIN: 225A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	15/1	WSHP-E6; WSHP-E5				1.6							1.6			WSHP-E12; WSHP-E11	15/1	2
3	15/1	WSHP-E4; WSHP-E3				1.6							1.6			WSHP-E10; WSHP-E9	15/1	4
5	15/1	WSHP-E2; WSHP-E1				1.6							1.6			WSHP-E8; WSHP-E7	15/1	6
7	25/3	WHSP-E13				4.1							2.5			ERV-E1	15/3	8
9	--	--				4.1							2.5			---	--	10
11	--	--				4.1							2.5			---	--	12
13	25/1	WSHP-E14				3.2							2.1			WSHP-C4	25/1	14
15	20/1	BEDROOM/OFFICE LIGH	2.6													SPARE	20/1	16
17	20/1	BEDROOM/COMMON LI	3.5													SPARE	20/1	18
19	20/1	CORRIDOR LIGHTING	1.4													SPARE	20/1	20
21	20/1	NITE LIGHTING	0.3													SPARE	20/1	22
23	20/1	COMMON LIGHTING	0.7													SPARE	20/1	24
25	20/1	SPARE														SPARE	20/1	26
27	20/1	SPARE														SPARE	20/1	28
29	20/1	SPARE														SPARE	20/1	30
31	20/1	SPARE														SPARE	20/1	32
33	20/1	SPARE														SPARE	20/1	34
35	20/1	SPARE											3.0			UH-1	20/1	36
37	20/1	SPARE								2.9	12.5	1.8	0.0	7.4	0.5	PANEL LE	100/3	38
39	20/1	SPARE								1.9	13.8	0.0	1.0	4.5	0.5	VIA TRANSFORMER	--	40
41	20/1	SPARE								1.0	12.7	0.2	1.0	6.4	0.3	---	--	42
LIGHTING:		14.3	8.5	0.0	0.0	20.3	0.0	0.0		5.8	38.9	2.0	19.4	18.3	1.3	CONNECTED LOAD (KV/	114.5	
RECEPTACLES:		38.9														DEMAND LOAD (KVA):	97.2	
MOTORS:		2.0						PHASE A	41.6	150.2								
A/C:		39.7						PHASE B	34.4	124.0						CONNECTED LOAD (AMI	137.7	
								PHASE C	38.6	139.2						DEMAND LOAD (AMPS):	116.9	
KITCHEN:		18.3							KVA	AMPS								
MISCELLANEOUS		1.3														AMPACITY REQUIRED:	116.9	

PANELBOARD SCHEDULE - 'LN1'

MAIN: 225A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	2
3	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	4
5	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	6
7	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	8
9	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	10
11	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	12
13	20/1	KITCHEN RECEPTACLES					1.0					0.5				EF-N1; EF-N2; DBF-1	20/1	14
15	20/1	DISHWASHER					1.0				0.5					BATHROOM RECEPTAC	20/1	16
17	20/1	KITCHEN RECEPTACLES					1.0				0.5					BATHROOM RECEPTAC	20/1	18
19	20/1	DISHWASHER					1.0				0.7					RECEPTACLES	20/1	20
21	20/1	REFRIGERATOR					1.0				0.9					RECEPTACLES	20/1	22
23	20/1	MICROWAVE					1.2				1.1					RECEPTACLES	20/1	24
25	20/1	MICROWAVE					1.2				1.0					OMNI-CELL	20/1	26
27	20/1	KITCHEN RECEPTACLES					1.0				1.0					OMNI-CELL	20/1	28
29	50/2	RANGE					4.2				0.7					RECEPTACLES	20/1	30
31	--	---					4.2				1.1					RECEPTACLES	20/1	32
33	20/1	REFRIGERATOR					1.0				0.9					RECEPTACLES	20/1	34
35	20/1	BATHROOM RECEPT		0.5							1.1					RECEPTACLES	20/1	36
37	20/1	BATHROOM RECEPT		0.5							1.0					CRASH CART	20/1	38
39	20/1	RANGE HOOD					0.5				0.7					TELE BACKBOARD	20/1	40
41	20/1	CARD READER		0.9							1.2					WHIRLPOOL BATH	20/1	42
SECTION 2										SECTION 2								
43	30/2	DRYER		2.3											0.5	GWH-2	20/1	44
45	--	---		2.3											0.5	GWH-3	20/1	46
47	20/1	WASHER		1.2											0.3	CP-2	20/1	48
49	20/1	BATHROOM LIGHTING	1.1								0.9					CARD READER	20/1	50
51	20/1	COMMON AREA LIGHTIN	1.3								0.5					EXTERIOR RECEPTACLE	20/1	52
53	20/1	COMMON AREA LIGHTIN	1.0								1.1					RECEPTACLES	20/1	54
55	20/1	BATHROOM LIGHTING	1.1								1.0					REFRIGERATOR	20/1	56
57	30/2	EWH-1						2.1			1.0					GALLEY RECEPTACLES	20/1	58
59	--	---						2.1			0.4					RECEPTACLES	20/1	60
61	30/2	EWH-2						2.1			1.2					MICROWAVE	20/1	62
63	--	---						2.1			1.2					WATER FEATURE	20/1	64
65	20/1	NIGHT LIGHTS	0.1								0.9					RECEPTACLES	20/1	66
67	20/1	ZONE DAMPER XFMR						0.3			0.9					RECEPTACLES	20/1	68
69	20/1	DATA RACK RECEPT		0.4							1.2					EWC	20/1	70
71	20/1	DATA RACK RECEPT		0.4							0.7					RECEPTACLES	20/1	72
73	20/1	SPARE								0.3						CELEBRATION LIGHTIN	20/1	74
75	20/1	SPARE														SPARE	20/1	76
77	20/1	SPARE														SPARE	20/1	78
79	20/1	SPARE										1.3				FIRE/SMOKE DAMPERS	20/1	80
81	20/1	SPARE											1.0			FCU/CU-6	15/2	82
83	20/1	SPARE											1.0			-----	--	84
LIGHTING:		4.9	4.6	15.0	0.0	0.0	18.3	8.7		0.3	30.0	1.8	2.0	0.0	1.3	CONNECTED LOAD (KV/	82.0	
RECEPTACLES:		45.0														DEMAND LOAD (KVA):	59.3	
MOTORS:		1.8						PHASE A	29.6	246.7								
A/C:		2.0						PHASE B	26.5	220.5						CONNECTED LOAD (AM	227.6	
								PHASE C	26.0	216.3						DEMAND LOAD (AMPS):	164.7	
KITCHEN:		18.3							KVA	AMPS								
MISCELLANEOUS		10.0														AMPACITY REQUIRED:	164.7	

PANELBOARD SCHEDULE - 'LN2'

MAIN: 225A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	2
3	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	4
5	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	6
7	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	8
9	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	10
11	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	12
13	20/1	KITCHEN RECEPTACLES					1.0					0.5				EF-N1; EF-N2; DBF-1	20/1	14
15	20/1	DISHWASHER					1.0				0.5					BATHROOM RECEPTAC	20/1	16
17	20/1	KITCHEN RECEPTACLES					1.0				0.5					BATHROOM RECEPTAC	20/1	18
19	20/1	DISHWASHER					1.0				0.7					RECEPTACLES	20/1	20
21	20/1	REFRIGERATOR					1.0				0.9					RECEPTACLES	20/1	22
23	20/1	MICROWAVE					1.2				1.1					RECEPTACLES	20/1	24
25	20/1	MICROWAVE					1.2				1.0					OMNI-CELL	20/1	26
27	20/1	KITCHEN RECEPTACLES					1.0				1.0					OMNI-CELL	20/1	28
29	50/2	RANGE					4.2				0.7					RECEPTACLES	20/1	30
31	--	---					4.2				1.1					RECEPTACLES	20/1	32
33	20/1	REFRIGERATOR					1.0				0.9					RECEPTACLES	20/1	34
35	20/1	BATHROOM RECEPT		0.5							1.1					RECEPTACLES	20/1	36
37	20/1	BATHROOM RECEPT		0.5							1.0					CRASH CART	20/1	38
39	20/1	RANGE HOOD					0.5				0.7					TELE BACKBOARD	20/1	40
41	20/1	SPARE									1.2					WHIRLPOOL BATH	20/1	42
SECTION 2										SECTION 2								
43	30/2	DRYER		2.3											0.5	GWH-2	20/1	44
45	--	---		2.3											0.5	GWH-3	20/1	46
47	20/1	WASHER		1.2											0.3	CP-2	20/1	48
49	20/1	BATHROOM LIGHTING	1.1								0.9					CARD READER	20/1	50
51	20/1	COMMON AREA LIGHTIN	1.3								0.5					EXTERIOR RECEPTACLE	20/1	52
53	20/1	COMMON AREA LIGHTIN	1.0													SPARE	20/1	54
55	20/1	BATHROOM LIGHTING	1.1								1.1					RECEPTACLES	20/1	56
57	30/2	EWH-3						2.1			1.3					RECEPTACLES	20/1	58
59	--	---						2.1			1.0					EXERCISE MACHINE	20/1	60
61	20/1	COMMON LIGHTING	0.5								1.0					EXERCISE MACHINE	20/1	62
63	20/1	LOBBY LIGHTING	1.0								1.0					EXERCISE MACHINE	20/1	64
65	20/1	COMMON BATH LIGHTIN	0.4								0.4					RECEPTACLES	20/1	66
67	20/1	CARD READER		0.4												SPARE	20/1	68
69	20/1	DATA RACK RECEPT		0.4												SPARE	20/1	70
71	20/1	DATA RACK RECEPT		0.4												SPARE	20/1	72
73	20/1	SPARE														SPARE	20/1	74
75	20/1	SPARE														SPARE	20/1	76
77	20/1	SPARE														SPARE	20/1	78
79	20/1	SPARE										1.3				FIRE/SMOKE DAMPERS	20/1	80
81	20/1	SPARE											1.0			FCU/CU-6	15/2	82
83	20/1	SPARE											1.0			-----	--	84
LIGHTING:		6.4	6.4	14.5	0.0	0.0	18.3	4.2		0.0	26.2	1.8	2.0	0.0	1.3	CONNECTED LOAD (KV/	74.7	
RECEPTACLES:		40.7														DEMAND LOAD (KVA):	54.6	
MOTORS:		1.8						PHASE A	26.8	223.3								
A/C:		2.0						PHASE B	24.3	202.2						CONNECTED LOAD (AMI	207.4	
								PHASE C	23.7	197.2						DEMAND LOAD (AMPS):	151.4	
KITCHEN:		18.3							KVA	AMPS								
MISCELLANEOUS		5.5														AMPACITY REQUIRED:	151.4	

PANELBOARD SCHEDULE - 'LE'

MAIN: 225A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	2
3	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	4
5	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	6
7	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	8
9	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	10
11	20/1	BEDROOM RECEPTACL		1.1							1.1					BEDROOM RECEPTACL	20/1	12
13	20/1	KITCHEN RECEPTACLES					1.0					0.5				EF-N1; EF-N2; DBF-1	20/1	14
15	20/1	DISHWASHER					1.0				0.5					BATHROOM RECEPTAC	20/1	16
17	20/1	KITCHEN RECEPTACLES					1.0				0.5					BATHROOM RECEPTAC	20/1	18
19	20/1	DISHWASHER					1.0				0.7					RECEPTACLES	20/1	20
21	20/1	REFRIGERATOR					1.0				0.9					RECEPTACLES	20/1	22
23	20/1	MICROWAVE					1.2				1.1					RECEPTACLES	20/1	24
25	20/1	MICROWAVE					1.2				1.0					OMNI-CELL	20/1	26
27	20/1	KITCHEN RECEPTACLES					1.0				1.0					OMNI-CELL	20/1	28
29	50/2	RANGE					4.2				0.7					RECEPTACLES	20/1	30
31	--	---					4.2				1.1					RECEPTACLES	20/1	32
33	20/1	REFRIGERATOR					1.0				0.9					RECEPTACLES	20/1	34
35	20/1	BATHROOM RECEPT		0.5							1.1					RECEPTACLES	20/1	36
37	20/1	BATHROOM RECEPT		0.5							1.0					CRASH CART	20/1	38
39	20/1	RANGE HOOD					0.5				0.7					TELE BACKBOARD	20/1	40
41	20/1	SPARE									1.2					WHIRLPOOL BATH	20/1	42
SECTION 2										SECTION 2								
43	30/2	DRYER		2.3											0.5	GWH-2	20/1	44
45	--	---		2.3											0.5	GWH-3	20/1	46
47	20/1	WASHER		1.2											0.3	CP-2	20/1	48
49	20/1	BATHROOM LIGHTING	1.1								0.9					CARD READER	20/1	50
51	20/1	COMMON AREA LIGHTIN	1.3								0.9					CARD READER	20/1	52
53	20/1	COMMON AREA LIGHTIN	1.0								0.5					EXTERIOR RECEPTACLE	20/1	54
55	20/1	BATHROOM LIGHTING	1.1							0.7						CHAPEL LIGHTING	20/1	56
57	20/1	RECEPTACLES		0.7						0.6						LOBBY LIGHTING	20/1	58
59	20/1	RECEPTACLES		1.1												SPARE	20/1	60
61	20/1	EWC		0.6												SPARE	20/1	62
63	20/1	RECEPTACLES		1.1												SPARE	20/1	64
65	20/1	MOTORIZED DAMPER			0.2											SPARE	20/1	66
67	20/1	SPARE														SPARE	20/1	68
69	20/1	DATA RACK RECEPT		0.4												SPARE	20/1	70
71	20/1	DATA RACK RECEPT		0.4												SPARE	20/1	72
73	20/1	SPARE														SPARE	20/1	74
75	20/1	SPARE														SPARE	20/1	76
77	20/1	SPARE														SPARE	20/1	78
79	20/1	SPARE										1.3				FIRE/SMOKE DAMPERS	20/1	80
81	20/1	SPARE											1.0			FCU/CU-6	15/2	82
83	20/1	SPARE											1.0			-----	--	84
LIGHTING:		5.8	4.5	17.6	0.2	0.0	18.3	0.0		1.3	21.3	1.8	2.0	0.0	1.3	CONNECTED LOAD (KV/	68.3	
RECEPTACLES:		38.9														DEMAND LOAD (KVA):	48.9	
MOTORS:		2.0						PHASE A	25.1	209.2								
A/C:		2.0						PHASE B	21.7	180.5						CONNECTED LOAD (AM	189.6	
								PHASE C	21.6	179.7						DEMAND LOAD (AMPS):	135.7	
KITCHEN:		18.3							KVA	AMPS								
MISCELLANEOUS		1.3														AMPACITY REQUIRED:	135.7	

TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/11/11	ADDENDUM 2
3/18/11	ADDENDUM 3

PROJECT NO: 229.01.00
DATE: FEB 21TH, 2011
DRAWING TITLE: PANEL SCHEDULES

E4.12

MINICK ENGINEERING, INC.
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Tucker, Georgia 30084
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210099

PANELBOARD SCHEDULE - 'HW'

MAIN: 225A MCB | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	15/1	WSHP-W6; WSHP-W5				1.6									1.6			WSHP-W12; WSHP-W11	15/1	2
3	15/1	WSHP-W4; WSHP-W3				1.6									1.6			WSHP-W10; WSHP-W9	15/1	4
5	15/1	WSHP-W2; WSHP-W1				1.6									1.6			WSHP-W8; WSHP-W7	15/1	6
7	25/3	WHSP-W13				4.1									2.5			ERV-W1	15/3	8
9	--	--				4.1									2.5			---	--	10
11	--	--				4.1									2.5			---	--	12
13	25/1	WSHP-W14				3.2									3.5			WSHP-C3	25/1	14
15	20/1	BEDROOM/OFFICE LIGH	2.6															SPARE	20/1	16
17	20/1	BEDROOM/COMMON LI	3.5															SPARE	20/1	18
19	20/1	CORRIDOR LIGHTING	1.9															SPARE	20/1	20
21	20/1	NITE LIGHTING	0.3															SPARE	20/1	22
23	20/1	COMMON LIGHTING	0.7															SPARE	20/1	24
25	20/1	SPARE																SPARE	20/1	26
27	20/1	SPARE																SPARE	20/1	28
29	20/1	SPARE																SPARE	20/1	30
31	20/1	SPARE																SPARE	20/1	32
33	20/1	SPARE																SPARE	20/1	34
35	20/1	SPARE													3.0			UH-1	20/1	36
37	20/1	SPARE										2.2	12.8	1.9	0.0	7.4	0.5	PANEL LW	100/3	38
39	20/1	SPARE										1.9	13.1	0.0	1.0	4.5	0.5	VIA TRANSFORMER	--	40
41	20/1	SPARE										1.0	12.7	0.0	1.0	6.4	0.5	---	--	42
LIGHTING:	14.1		9.0	0.0	0.0	20.3	0.0	0.0				5.1	38.5	1.9	20.8	18.3	1.5	CONNECTED LOAD (KV	115.4	
RECEPTACLES:	38.5																	DEMAND LOAD (KVA):	98.3	
MOTORS:	1.9						PHASE A		43.2	156.0										
A/C:	41.1						PHASE B		33.7	121.5								CONNECTED LOAD (AM	138.8	
							PHASE C		38.6	139.2								DEMAND LOAD (AMPS):	118.2	
KITCHEN:	18.3								KVA	AMPS										
MISCELLANEOUS	1.5																	AMPACITY REQUIRED:	118.2	

PANELBOARD SCHEDULE - 'LW'

MAIN: 225A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	BEDROOM RECEPTACL		1.1									1.1					BEDROOM RECEPTACL	20/1	2
3	20/1	BEDROOM RECEPTACL		1.1									1.1					BEDROOM RECEPTACL	20/1	4
5	20/1	BEDROOM RECEPTACL		1.1									1.1					BEDROOM RECEPTACL	20/1	6
7	20/1	BEDROOM RECEPTACL		1.1									1.1					BEDROOM RECEPTACL	20/1	8
9	20/1	BEDROOM RECEPTACL		1.1									1.1					BEDROOM RECEPTACL	20/1	10
11	20/1	BEDROOM RECEPTACL		1.1									1.1					BEDROOM RECEPTACL	20/1	12
13	20/1	KITCHEN RECEPTACLES					1.0					0.5						EF-N1; EF-N2; DBF-1	20/1	14
15	20/1	DISHWASHER					1.0						0.5					BATHROOM RECEPTAC	20/1	16
17	20/1	KITCHEN RECEPTACLES					1.0						0.5					BATHROOM RECEPTAC	20/1	18
19	20/1	DISHWASHER					1.0						0.7					RECEPTACLES	20/1	20
21	20/1	REFRIGERATOR					1.0						0.9					RECEPTACLES	20/1	22
23	20/1	MICROWAVE					1.2						1.1					RECEPTACLES	20/1	24
25	20/1	MICROWAVE					1.2						1.0					OMNI-CELL	20/1	26
27	20/1	KITCHEN RECEPTACLES					1.0						1.0					OMNI-CELL	20/1	28
29	50/2	RANGE					4.2						0.7					RECEPTACLES	20/1	30
31	--	--					4.2						1.1					RECEPTACLES	20/1	32
33	20/1	REFRIGERATOR					1.0						0.9					RECEPTACLES	20/1	34
35	20/1	BATHROOM RECEPT		0.5									1.1					RECEPTACLES	20/1	36
37	20/1	BATHROOM RECEPT		0.5									1.0					CRASH CART	20/1	38
39	20/1	RANGE HOOD					0.5						0.7					TELE BACKBOARD	20/1	40
41	20/1	SPARE											1.2					WHIRLPOOL BATH	20/1	42
SECTION 2												SECTION 2								
43	30/2	DRYER		2.3													0.5	GWH-2	20/1	44
45	--	---		2.3													0.5	GWH-3	20/1	46
47	20/1	WASHER		1.2													0.3	CP-2	20/1	48
49	20/1	BATHROOM LIGHTING	1.1										0.9					CARD READER	20/1	50
51	20/1	COMMON AREA LIGHTIN	1.3										0.9					CARD READER	20/1	52
53	20/1	COMMON AREA LIGHTIN	1.0										0.5					EXTERIOR RECEPTACLE	20/1	54
55	20/1	BATHROOM LIGHTING	1.1											0.1				EF-C1	20/1	56
57	20/1	RECEPTACLES		0.5								0.6						LOBBY LIGHTING	20/1	58
59	20/1	RECEPTACLES		1.1														SPARE	20/1	60
61	20/1	RECEPTACLES		0.9														SPARE	20/1	62
63	20/1	EWC		0.6														SPARE	20/1	64
65	20/1	CONTROL VALVE						0.2										SPARE	20/1	66
67	20/1	SPARE																SPARE	20/1	68
69	20/1	DATA RACK RECEPT		0.4														SPARE	20/1	70
71	20/1	DATA RACK RECEPT		0.4														SPARE	20/1	72
73	20/1	SPARE																SPARE	20/1	74
75	20/1	SPARE																SPARE	20/1	76
77	20/1	SPARE																SPARE	20/1	78
79	20/1	SPARE													1.3			FIRE/SMOKE DAMPERS	20/1	80
81	20/1	SPARE														1.0		FCU/CU-6	15/2	82
83	20/1	SPARE														1.0		-----	--	84
LIGHTING:	5.1		4.5	17.2	0.0	0.0	18.3	0.2				0.6	21.3	1.9	2.0	0.0	1.3	CONNECTED LOAD (KV	67.3	
RECEPTACLES:	38.5																	DEMAND LOAD (KVA):	47.9	
MOTORS:	1.9						PHASE A		24.8	206.7										
A/C:	2.0						PHASE B		21.0	174.7								CONNECTED LOAD (AM	186.8	
							PHASE C		21.6	179.7								DEMAND LOAD (AMPS):	133.0	
KITCHEN:	18.3								KVA	AMPS										
MISCELLANEOUS	1.5		PROVIDE CIRCUIT BREAKERS AS REQUIRED															AMPACITY REQUIRED:	133.0	

PANELBOARD SCHEDULE - 'HP'

MAIN: 225A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	60/3	P-1			5.9							1.0						EMERG. CLINIC LTS	20/1	2
3	--	---			5.9							0.7						EMERG. CLINIC LTS	20/1	4
5	--	---			5.9							1.4						EMERG. MAINT LTS	20/1	6
7	60/3	P-2																EMERG.	20/1	8
9	--	(LEAD/LAG WITH P-1)																SPARE	20/1	10
11	--	---																SPARE	20/1	12
13	20/1	SPARE																SPARE	20/1	14
15	20/1	SPARE																SPARE	20/1	16
17	20/1	SPARE																SPARE	20/1	18
19	20/1	SPARE																SPARE	20/1	20
21	20/1	SPARE																SPARE	20/1	22
23	20/1	SPARE																SPARE	20/1	24
25	20/1	SPARE																SPARE	20/1	26
27	20/1	SPARE																SPARE	20/1	28
29	20/1	SPARE																SPARE	20/1	30
31	20/1	SPARE																SPARE	20/1	32
33	20/1	SPARE																SPARE	20/1	34
35	20/1	SPARE																SPARE	20/1	36
37	--	PANEL HW	4.1	12.8	1.9	16.5	7.4	0.5				0.0	4.5	0.0	3.4	0.0	0.0	PANEL LP	70/3	38
39	--		4.8	13.1	0.0	10.8	4.5	0.5				0.7	3.0	0.0	3.4	0.0	2.5	VIA TRANSFORMER	--	40
41	--		5.2	12.7	0.0	13.8	6.4	0.5				0.0	2.8	0.1	0.0	0.0	2.0		--	42
LIGHTING:	17.9		14.1	38.5	19.6	41.1	18.3	1.5				3.8	10.3	0.1	6.8	0.0	4.5	CONNECTED LOAD (KV	158.6	
RECEPTACLES:	48.8																	DEMAND LOAD (KVA):	137.3	
MOTORS:	19.7						PHASE A		58.0	209.3										
A/C:	47.9						PHASE B		49.9	180.1								CONNECTED LOAD (AM	190.8	
							PHASE C		50.7	183.2								DEMAND LOAD (AMPS):	165.1	
KITCHEN:	18.3								KVA	AMPS										
MISCELLANEOUS	6.0																	AMPACITY REQUIRED:	165.1	

PANELBOARD SCHEDULE - 'LP'

MAIN: 150A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10,000 | NOTES:

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	PHASE A	B	C	LOAD (KVA) LTG	REC	MTR	A/C	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	RECEPTACLES		1.1									1.1					RECEPTACLES	20/1	2
3	20/1	RECEPTACLES		0.5								0.7						WAIT RM EMERG LTS	20/1	4
5	20/1	RECEPTACLES		0.5									0.2					CARD READER	20/1	6
7	20/1	GENERATOR STARTER		0.2												2.2		CU-1/FCU-1	40/2	8
9	20/1	GENERATOR BATTERY		0.8												2.2		---	--	10
11	20/1	GENERATOR STARTER		0.2											0.1			EF-P1	20/1	12
13	20/1	GENERATOR BATTERY		0.8												1.2		CU-3/FCU-3	20/2	14
15	20/1	GENERATOR STARTER		0.2												1.2		---	--	16
17	20/1	GENERATOR BATTERY		0.8									0.7					DATA BACKBOARD	20/1	18
19	20/1	GENERATOR STARTER		0.2									0.7					DATA BACKBOARD	20/1	20
21	20/1	GENERATOR BATTERY		0.8									0.7					DATA BACKBOARD	20/1	22
23	20/1	SPARE											0.4					SERVER RACK REC	20/1	24
25	20/1	SPARE											0.4					SERVER RACK REC	20/1	26
27	20/1	SPARE															0.5	FAX	20/1	28
29	20/1	SPARE																SPARE	20/1	30
31	20/1	SPARE																SPARE	20/1	32
33	20/1	SPARE																SPARE	20/1	34
35	20/1	SPARE																SPARE	20/1	36
37	20/1	SPARE																SPARE	20/1	38
39	20/1	SPARE															2.0	EWH-4	30/2	40
41	20/1	SPARE															2.0	---	--	42
LIGHTING:	0.7		0.0	6.1	0.0	0.0	0.0	0.0				0.7	4.2	0.1	6.8	0.0	4.5	CONNECTED LOAD (KV	22.4	
RECEPTACLES:	10.3																	DEMAND LOAD (KVA):	22.4	
MOTORS:	0.1						PHASE A		7.9	65.7										
A/C:	6.8						PHASE B		9.6	80.2								CONNECTED LOAD (AM	62.1	
							PHASE C		4.9	40.7								DEMAND LOAD (AMPS):	62.2	
KITCHEN:	0.0								KVA	AMPS										
MISCELLANEOUS	4.5																	AMPACITY REQUIRED:	62.2	

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TRINKA DAVIS VETERANS VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
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PROJECT NO.
229.01.00

DATE
FEB 21TH, 2011

DRAWING TITLE
PANEL SCHEDULES

E4.13

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNT	VOLTS	LAMPS NO.	LAMPS TYPE	MANUFACTURER	REMARKS
A	2'X4' INDIRECT FLUORESCENT FIXTURE; 2 LAMPS; STEP DIMMING SWITCHING; ELECTRONIC BALLAST	RECESS	120/277	(2)	54WT5 HO	DAYBRITE SOFTRACE #2STG-254HO-PMW-UNV-1/2EBSD	
A1	2' X 2' INDIRECT FLUORESCENT, 2 LAMPS, ELECTRONIC BALLAST	RECESS	120/277	(2)	14WT5	DAYBRITE SOFTRACE #2STG-214-PMW-UNV-1/2EB	
A2	2' X 4' INDIRECT FLOURESCENT, 2 LAMPS, ELECTRONIC BALLAST	RECESS	120/277	(2)	28WT5	DAYBRITE SOFTRACE #2STG-228-PMW-UNV-1/2EB	
A3	2' X 2' INDIRECT FLUORESCENT, 2 LAMPS, ELECTRONIC BALLAST STEP DIMMING SWITCHING	RECESS	120/277	(2)	14WT5	DAYBRITE SOFTRACE #2STG-214-PMW-UNV-1/2EBSD	
A4	2' X 4' INDIRECT FLUORESCENT, 2 LAMPS; STEP DIMMING SWITCHING; ELECTRONIC BALLAST	RECESS	120/277	(2)	28WT5	DAYBRITE SOFTRACE #2STG-228-PMW-UNV-1/2EBSD	
A5	2' X 2' INDIRECT FLUORESCENT, 2 LAMPS, ELECTRONIC BALLAST STEP DIMMING SWITCHING	RECESS	120/277	(2)	24WT5 HO	DAYBRITE SOFTRACE #2STG-224HO-PMW-UNV-1/2EBSD	
A6	2' X 2' INDIRECT LENSED FLOURESCENT, 2 LAMPS, ELECTRONIC BALLAST. DOUBLE GASKETING.	RECESS	120/277	(2)	24WT5 HO	HE WILLIAMS #DILG-S22-22475H-F-AD-DG/MYLAR-EB2-UNV	
B	SEMI-FLUSH PENDANT - CORRIDORS	RECESS	120	(1)	40W CIRCILINE	HUBBARDTON FORGE VORTIS 12-3252F	
B1	SEMI-FLUSH PENDANT - SUB-WAT	RECESS	120	(1)	40W CIRCILINE	HUBBARDTON FORGE VORTIS 12-3252F	
C4	4' UNDERCOUNTER LIGHT, 1 LAMP WITH SOLID FRONT.	CASEWORK	120/277	(1)	28WT5	DAYBRITE SUC-128SUNV	
D	6" INCANDESCENT DOWNLIGHT	RECESS	120	(1)	150W A19	OMEGA SPEX S6A21-T6-CS	
F	6" APERTURE FLUORESCENT DOWNLIGHT, ELECTRONIC BALLAST.	RECESS	120/277	(1)	32WPLT	OMEGA SPEX S632PLTU-T6CS	
F1	8" APERTURE FLUORESCENT DOWNLIGHT, ELECTRONIC BALLAST.	RECESS	120/277	(1)	32WPLT	OMEGA SPEX S832PLTUTB-CS	
F2	6" APERTURE FLUORESCENT DOWNLIGHT, ELECTRONIC BALLAST. SHOWER LIGHT	RECESS	120/277	(1)	32WPLT	OMEGA SPEX S6SRD1H32PLT-U-T6SRD1HSHWRCP	
F3	SEMI-RECESSED DOWNLIGHT	RECESS	120/277	(1)		TBD	
F4	6" APERTURE FLUORESCENT DOWNLIGHT, ELECTRONIC BALLAST. PRISMEL LENS.	RECESS	120/277	(1)	32WPLT	OMEGA SPEX S632PLTU-T6FLCS	
F5	6" APERTURE FLUORESCENT HORIZONTAL DOWNLIGHT, ELECTRONIC BALLAST.	RECESS	120/277	(1)	32WPLT	OMEGA SPEX S61H32PLTU-T6CS	
G1	DECORATIVE PENDANT - 72" DIAMETER; LOBBY 309 AND 325	RECESS	120	(6)	26W CFL	SEE ARCHITECTURAL DRAWINGS FOR ALLOWANCES.	SEE NOTE #3
G2	DECORATIVE PENDANT; 6 LAMPS - 36" DIAMETER; CELEBRATION 313; VESTIBULES 302 & 304	RECESS	120	(6)	26W CFL	SEE ARCHITECTURAL DRAWINGS FOR ALLOWANCES.	SEE NOTE #3
G3	DECORATIVE PENDANT; 4 LAMPS - 30" DIAMETER; CHAPEL	RECESS	120	(4)	26W CFL	SEE ARCHITECTURAL DRAWINGS FOR ALLOWANCES.	SEE NOTE #3
G4	DECORATIVE PENDANT; 4 LAMPS - 30" DIAMETER; CHAPEL	RECESS	120	(4)	26W CFL	SEE ARCHITECTURAL DRAWINGS FOR ALLOWANCES.	SEE NOTE #3
H	CORRIDOR PENDANT-FINISHES AND OVERALL HANG DIMENSIONS BY ARCHITECT.		120/277	(6)	42W PLT	SCOTT ARCHITECTURE S2121-6C42T-BN-FAA	
J	OVERHEAD BED LIGHT; INDIRECT/DIRECT; 6'-4" LENGTH. CUSTOM COLOR BY ARCHITECT.	WALL	120/277	(6)	F25 T8	ARCHIECTURAL LIGHTING SYSTEMS CURVILINE VALANCE BEDLIGHT SERIES	
K	WALL SCONCE; 1 LAMP - RESIDENT FOYER - FINISH BY ARCHITECT.	WALL	120/277	(1)	54T5HO	SCOTT ARCHITECTURE S3837-BN	
L	5" LED DOWNLIGHT	RECESS	120/277	(1)	50W	PEACHTREE LIGHTING #PSB550CS	
M	8'-0" FLOURESCENT STRIP FIXTURE. ELECTRONIC BALLAST. CHAIN HUNG IN ELECTRICAL ROOMS, MECHANICAL ROOMS, ETC.	PENDANT/ SURFACE	120/277	(1)	75W T12	DAYBRITE "T" SERIES	
N	EXTERIOR CEILING FANS WITH BRONZE FISH AND MAHOGANY BLADES. TEASTAINED GLASS AND 52" BLADE SPAN.	PENDANT	120	N/A	N/A	ATOMICAL #CF930ORB1 W/ CP930ORB COVER PLATE	
NL	LED NIGHT LIGHT WITH HIGH IMPACT OPAL ACRYLIC LENS. COORDINATE FINISH WITH ARCHITECT.	PENDANT	120	(1)	4W LED	METALUMEN #HC08-LED-HC-S-*-120	
P1	SMALL PENDANT LIGHT FIXTURE	PENDANT	120	(1)	100W A19	HUBBARDTON FORGE PARRALINE PENDANT 18-355	
Q	HALOGEN FOUNTAIN LIGHT MOUNTED IN SIDE WALL OF FOUNTAIN. COORDINATE LENS TYPE WITH ARCHITECT.	RECESSED	120	(1)	100W T4	BRONZELITE #5110RG	LAMP INCLUDED
S1	10"X10" CUSTOM PENDANT WITH POWDER COAT FRAME AND ACRYLIC LENS. ELECTRONIC DIMMING BALLAST. COORDINATE FINISH WITH ARCHITECT.	PENDANT	277	(4)	32W T8	ARCHITECTURAL DETAILS #1865M-120-PCP-FE-FAA	
S2	5'X5' CUSTOM PENDANT WITH POWDER COAT FRAME AND ACRYLIC LENS. ELECTRONIC DIMMING BALLAST. COORDINATE FINISH WITH ARCHITECT.	PENDANT	277	(4)	32W T8	ARCHITECTURAL DETAILS #1865M-60-PCP-FE-FAA	
S3	4'X4' CUSTOM PENDANT WITH POWDER COAT FRAME AND ACRYLIC LENS. ELECTRONIC BALLAST. COORDINATE FINISH WITH ARCHITECT.	PENDANT	277	(4)	32W T8	ARCHITECTURAL DETAILS #1865M-48-PCP-FE-FAA	
T	4'-0" FLOURESCENT WALL BRACKET FIXTURE. ELECTRONIC BALLAST.	SURFACE	120/277	(2)	32W T8	DAYBRITE "WB" SERIES	
V	BATHROOM VANITY FIXTURE; 2 LAMPS	WALL	120/277	(2)	26W CFL	EPIPHANY LIGHTING 103292	SEE NOTE #3
W	WALL SCONCE - CLC	WALL	120	(1)	24W CFL 4-PIN	HUBBARDTON FORGE 20-5812F	
Y	METAL HALIDE UPLIGHT CANOPY FIXTURE. ELECTRONIC BALLAST. U.L. LISTED FOR WET LOCATION.	WALL	277	(1)	CDM150/ T6	ELLIPTIPAR M152-150G-X-*-*	
Z	EXTERIOR HALOGEN WALL SCONCE. U.L. LISTED FOR WET LOCATION. COORDINATE FINISH WITH ARCHITECT.	WALL	120	(1)	35W MR16 GU10	HUBBARDTON FORGE AIRIS 30-7920-18-1221	
⊗	BRUSHED ALUMINUM EXIT SIGN WITH RED LETTERING. SINGLE FACE/RED ON CLEAR, DOUBLE FACE/RED ON MIRROR. BATTERY BACK-UP. PROVIDE WITH ARROWS WHERE INDICATED.	CEILING OR WALL	120	FURN WITH UNIT	LED	CHLORIDE CN6-RX-A-1/2-IC	

NOTES:

NOTE:

1. PURCHASE LAMPS SUCH THAT 90% OF ALL LAMPS (EXTERIOR AND INTERIOR) CONTAIN NO MORE THAN 90 PICTOGRAMS/LUMEN-HOUR OF MERCURY. SUBMIT DATA ON MERCURY CONTENT WITH SHOP DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR FINISHES FOR SPECIALTY FIXTURES.
3. PROVIDE SELF-BALLASTED COMPACT FLUORESCENT LAMP (2700°K)

GENERAL ELECTRICAL NOTES:

1. FOR EXACT LOCATION OF EQUIPMENT MOUNTED IN SUSPENDED CEILINGS, SUCH AS LIGHTING FIXTURES, AND SMOKE DETECTORS, SEE ARCHITECTURAL REFLECTED CEILING PLANS. ARCHITECTURAL REFLECTED PLAN SHALL GOVERN FINAL LOCATION.
2. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL WIRING DEVICE WITH ARCHITECTURAL ELEVATION TO AVOID CONFLICTS WITH CASEWORK, COUNTER TOPS, DOOR SWINGS, ETC. WHERE CONFLICTS OCCURS, CONTRACTOR SHALL CONTACT THE ARCHITECT IN WRITING FOR RESOLUTION.
3. ALL MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTER OF THE OUTLET BOX UNLESS OTHERWISE NOTED.
4. FOR EXACT LOCATION OF ALL EXTERIOR LIGHTING FIXTURES MOUNTED ON EXTERIOR OF BUILDING, ARCHITECTURAL ELEVATIONS SHALL GOVERN
5. PRIOR TO ROUGH-IN FOR ALL LIGHTING SWITCHES, VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL PLANS.
6. THE CONTRACTOR SHALL USE CARE WHEN CUTTING OPENINGS FOR OUTLET BOXES IN CMU WALLS. OUTLET BOXES SHALL BE INSTALLED IN CMU WALLS SECURELY WITH EPOXY.
7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING OUTLET BOX INSTALLATION WITH WALL FINISH (GYPSUM FURRING, TILE, ETC). THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY EXTENSION RINGS NECESSARY TO ACCOMMODATE WALL FINISHES.
8. MC CABLE SHALL CONTAIN AN OUTER METAL ARMOR OR SHEATH THAT IS IDENTIFIED AS AN ACCEPTABLE GROUNDING RETURN PATH PER NEC 517.13 WHERE PERMITTED TO BE UTILIZED. OTHERWISE, BRANCH CIRCUITS SHALL BE ROUTED IN EMT WITH GROUND WIRE.
9. FIXED EQUIPMENT INSTALLED IN PATIENT CARE AREAS SHALL BE GROUNDED PER 517-13(B).
10. RACEWAYS IN PLENUM SPACE ABOVE CEILINGS SHALL EITHER BE ROUTED IN EMT OR MC CABLE.
11. ALL CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUND WIRE.
12. FLUORESCENT FIXTURES THAT UTILIZE DOUBLE ENDED LAMPS SHALL CONTAIN DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.130(G).
13. ALL INTERIOR RECEPTACLES IN THE CBOC SHALL BE UL LISTED AS HOSPITAL GRADE.

GROUNDING NOTES:

1. GROUNDING CIRCUITRY INTEGRITY. GROUNDING CIRCUITS AND CONDUCTORS IN PATIENT CARE AREAS SHALL BE INSTALLED IN SUCH A WAY THAT THE CONTINUITY OF OTHER PARTS OF THOSE CIRCUITS CANNOT BE INTERRUPTED NOR THE RESISTANCE RAISED ABOVE AN ACCEPTABLE LEVEL BY THE INSTALLATION, REMOVAL, OR REPLACEMENT OF ANY INSTALLED EQUIPMENT, INCLUDING POWER RECEPTACLES.
2. RELIABILITY OF GROUNDING. IN ALL PATIENT CARE AREAS THE RELIABILITY OF AN INSTALLED GROUNDING CIRCUIT TO A POWER RECEPTACLE SHALL BE AT LEAST EQUIVALENT TO THAT PROVIDED BY AN ELECTRICALLY CONTINUOUS COPPER CONDUCTOR OF APPROPRIATE AMPACITY RUN FROM THE RECEPTACLE TO A GROUNDING BUS IN THE DISTRIBUTION PANEL. THE GROUNDING CONDUCTOR SHALL CONFORM TO NFPA 70, NATIONAL ELECTRICAL CODE. WHERE METAL RECEPTACLE BOXES ARE USED, THE PERFORMANCE OF THE CONNECTION BETWEEN THE RECEPTACLE GROUNDING TERMINAL AND THE METAL BOX SHALL BE EQUIVALENT TO THE PERFORMANCE PROVIDED BY COPPER WIRE NO SMALLER THAN NO. 12 AWG.
3. THE EFFECTIVENESS OF THE GROUNDING SYSTEM SHALL BE DETERMINED BY VOLTAGE MEASUREMENTS AND IMPEDANCE MEASUREMENTS IN PATIENT CARE AREAS.

WIRING SIZE CHART

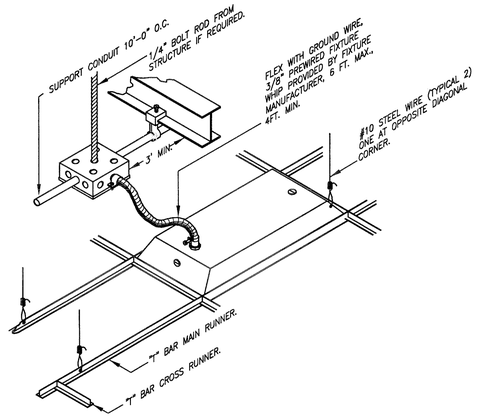
CONTRACTOR SHALL PROVIDE WIRING FOR 277 V. CIRCUITS (LINE TO NEUTRAL) OF SIZES BELOW DEPENDING UPON CIRCUIT LENGTH BELOW:

< 200 FT	#12 AWG (CU)
200-320 FT	#10 AWG (CU)
320-500 FT	#8 AWG (CU)

WIRING SIZE CHART

CONTRACTOR SHALL PROVIDE WIRING FOR 120 V. CIRCUITS (LINE TO NEUTRAL) OF SIZES BELOW DEPENDING UPON CIRCUIT LENGTH BELOW:

< 100 FT	#12 AWG (CU)
100-160 FT	#10 AWG (CU)
160-250 FT	#8 AWG (CU)



ELECTRICAL LEGEND

LIGHTING

- FLUORESCENT LIGHTING FIXTURE.
- EMERGENCY LIGHTING FIXTURE WITH BATTERY BACKUP. BATTERY BACKUP SHALL POWER LAMPS AT 600 LUMENS FOR 90 MINUTES.
- DOWNLIGHT.
- EXIT LIGHTING FIXTURE, FACE PLATES (DARKENED) AND DIRECTIONAL ARROWS AS INDICATED. PROVIDE WITH BATTERY BACKUP.
- S — SINGLE POLE SWITCH, 20A, 120/277 VOLT, 48" A.F.F..
- S3 — THREE-WAY SWITCH, 20A, 120/277 VOLT, 48" A.F.F..
- S4 — FOUR-WAY SWITCH, 20A, 120/277 VOLT, 48" A.F.F..
- SD — DIMMER CONTROL SWITCH, SLIDING TYPE, 1000 WATT, 120 VOLT, 48" A.F.F.
- SFD — FLUORESCENT DIMMER SWITCH, 20A, 120/277 VOLT, 48" A.F.F..
- (P) — PHOTOELECTRIC CONTROL, 2000 WATT, 120 VOLT, MOUNT ON CONDUIT 6" ABOVE ROOF, FACE NORTH, PROVIDE FLASHING BOOT WHERE CONDUIT PENETRATES ROOF.
- SOS — WALL MOUNTED SWITCH, 20A, 120/277V, 48"AFF WITH INTEGRAL OCCUPANCY SENSOR, DUAL TECHNOLOGY: PIR/ULTRASONIC(OR MICROPHONICS). PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION. SWITCH SHALL BE EQUIPPED WITH DIMMING TECHNOLOGY. OCCUPANCY SENSOR SHALL BE GREENGATE #ONW-D-1001-DMV-N-* (COORDINATE FINISH WITH ARCHITECT).
- OSC — CEILING MOUNTED OCCUPANCY SENSOR, LOW VOLTAGE,180° COVERAGE, DUAL TECHNOLOGY: PIR/ULTRASONIC(OR MICROPHONICS). PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION. OCCUPANCY SENSOR SHALL BE GREENGATE #OMC-DT-0701-R (COORDINATE FINISH WITH ARCHITECT).

POWER

- DUPLEX GROUNDING TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N..
- (2) DUPLEX GROUNDING TYPE RECEPTACLES IN COMMON BOX, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F, U.O.N
- GFI — DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N.
- WP — DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, MOUNT HORIZONTALLY 18" A.F.F., U.O.N., IN CAST OUTLET BOX WITH GASKET DEVICE COVER.
- SPECIAL RECEPTACLE, AMPERAGE, AND VOLTAGE AS INDICATED, 18" AFF, UON.
- PANELBOARD, 120/208 VOLT, 3 PHASE, 4 WIRE, SN
- A-1 — ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE ONE #12 PHASE CONDUCTOR, ONE #12 NEUTRAL CONDUCTOR, AND ONE #12 GROUNDING CONDUCTOR IN 1/2" CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS SHALL BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. NEUTRAL AND GROUNDING CONDUCTORS SHALL BE SHARED AS ALLOWED BY THE NEC. BRANCH CIRCUIT CONDUCTORS IN CONDUIT SHALL BE RUN CONCEALED IN WALLS AND/OR ABOVE CEILINGS, IN/OR BELOW FLOORS, EXCEPT IN EXPOSED CONSTRUCTION AREAS.
- J — JUNCTION BOX.
- DISCONNECT SWITCH, 240 OR 600 VOLTS AS REQUIRED. AMPS, POLES AND FUSING AS NOTED, NEMA 1, U.O.N.
- SM — MOTOR RATED SWITCH. MOUNT WITHIN SIGHT OF EQUIPMENT.
- 1 — KEYNOTE.
- S — FIRE ALARM SYSTEM SMOKE DETECTOR, PHOTOELECTRIC TYPE.
- H — DOOR HOLD OPEN DEVICE. CONNECT TO NEAREST AVAILABLE 20A, 120V CIRCUIT AND TO FIRE ALARM SYSTEM.
- XS — X-RAY EXPOSURE STATION; MOUNT 60" AFF UON.

SPECIAL SYSTEMS

- TELEPHONE/DATA OUTLET 18" A.F.F., U.O.N. SINGLE GANG BOX WITH DEVICE PLATE. PROVIDE 1" (UON) CONDUIT WITH PULLWIRE FROM OUTLET TO ABOVE ACCESSIBLE CEILING.
- TELEPHONE OUTLET 18" A.F.F., U.O.N. SINGLE GANG BOX WITH DEVICE PLATE. PROVIDE 3/4" (UON) CONDUIT WITH PULLWIRE FROM OUTLET TO ABOVE ACCESSIBLE CEILING.
- TV — TELEVISION OUTLET 18" A.F.F., U.O.N. SINGLE GANG BOX WITH DEVICE PLATE. PROVIDE 3/4" (UON) CONDUIT WITH PULLWIRE FROM OUTLET TO ABOVE ACCESSIBLE CEILING.
- TELEPHONE/TELEVISION BACKBOARD, 4' X 4' X 3/4" THICK EXTERIOR GRADE PLYWOOD. MOUNT VERTICALLY WITH BOTTOM OF PLYWOOD 6" A.F.F., U.O.N.
- CT — CABLE TRAY. PROVIDE WITH ALL REQUIRED CONNECTORS, TRANSITIONS, AND HANGING HARDWARE.

FIRE ALARM LEGEND:

- F — FIRE ALARM PULL STATION. WALL MOUNT AT 48" A.F.F.
- F — FIRE ALARM HORN/STROBE. WALL MOUNT 80" A.F.F. TO BOTTOM OF OUTLET BOX, A.F.F. OR 6" BELOW CEILING IN COMPLIANCE WITH ADA REQUIREMENTS.
- V — FIRE ALARM STROBE. WALL MOUNT 80" TO BOTTOM OF OUTLET BOX, A.F.F. OR 6" BELOW CEILING IN COMPLIANCE WITH ADA REQUIREMENTS.
- S — FIRE ALARM SYSTEM SMOKE DETECTOR, PHOTOELECTRIC TYPE.
- H — FIRE ALARM HEAT DETECTOR.
- D — DUCT SMOKE DETECTOR
- VS — VISUAL DEVICE SHALL ACTIVATE UPON SMOKE DETECTION.

NURSE CALL LEGEND

- NURSE CALL PULL STATION. PROVIDE WITH PULL CORD.
- NURSE CALL CEILING MOUNTED WARNING LIGHT.

ABBREVIATIONS

A	- AMPERES	MCB	- MAIN CIRCUIT BREAKER
A.F.F.	- ABOVE FINISHED FLOOR	MLO	- MAIN LUG ONLY
A.F.G.	- ABOVE FINISHED GRADE	NTS	- NOT TO SCALE
BFG	- BELOW FINISHED GRADE	P	- POLE
C	- CONDUIT	PNL	- PANEL
F	- FUSE	SN	- SOLID NEUTRAL
GFI	- GROUND FAULT CIRCUIT INTERRUPTING	U.O.N.	- UNLESS OTHERWISE NOTED
G	- GROUND	V	- VOLTS
KVA	- KILO VOLT AMP	W	- WIRE
KW	- KILOWATT	WP	- WEATHERPROOF

FIRE PROOFING NOTES:

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE STOPPING AT ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE CONDUIT PENETRATIONS OCCUR.
2. PROVIDE FIRE STOPPING AT CONDUIT PENETRATIONS PER UL.

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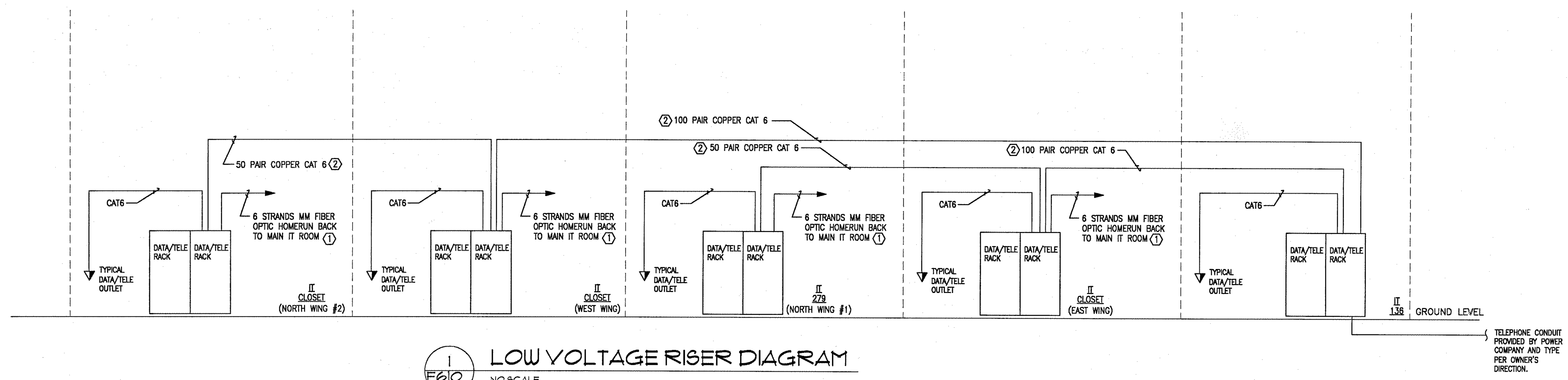
DATE	REVISION
9/3/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/4/11	ADDENDUM #1

PROJECT NO: 229.01.00
DATE: FEB 21TH, 2011
DRAWING TITLE: LEGEND & NOTES

E5.10



1/E610 LOW VOLTAGE RISER DIAGRAM

NO SCALE

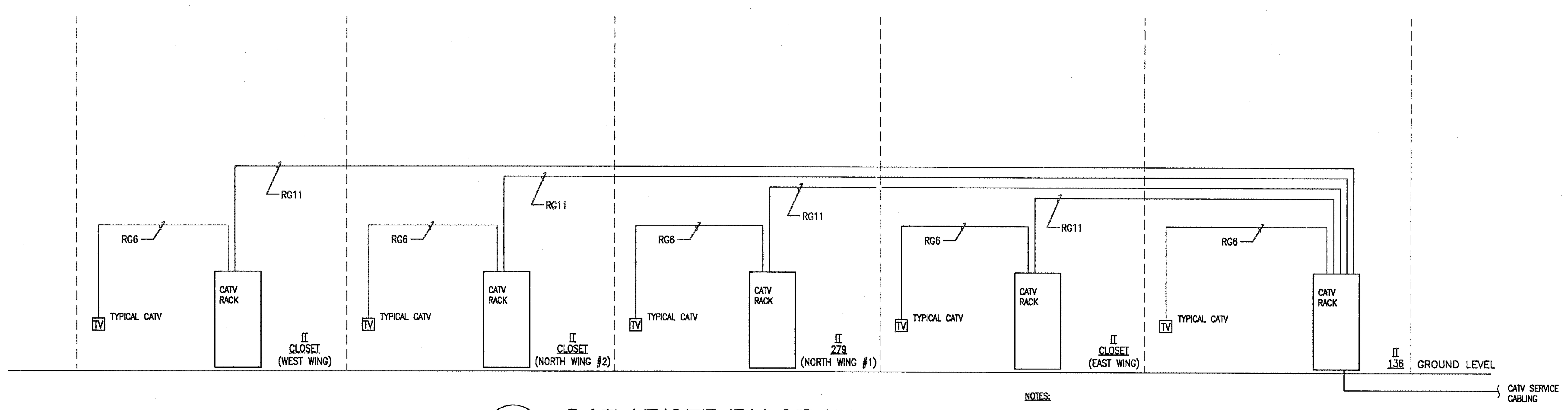
NOTES:

1. TERMINATE ALL TELEPHONE CABLING IN RACK MOUNTED 110 BLOCKS.
2. TERMINATE ALL DATA CABLING IN RACK MOUNTED RJ45 PATCH PANELS.
3. TELEPHONE CABLING TO BE WHITE. DATA CABLING TO BE BLUE.
4. CLEARLY IDENTIFY DATA AND TELEPHONE JACKS FROM FRONT.
5. PROVIDE FIBER OPTIC CABLING WITH SC CONNECTORS.
6. CONTRACTOR SHALL PROVIDE MANUFACTURER-BASED 25 YEAR WARRANTY FOR BOTH COPPER CABLING INFRANSTRUCTURE SYSTEM AND FIBER INFRASTRUCTURE SYSTEM.

KEY NOTES:

(1) MULTI-MODE FIBER OPTIC CABLE INSTALLED IN PLENUM-RATED ARMORED JACKET.

(2) PLENUM RATED VOICE BACKBONE CATEGORY 3 CABLE.



2/E610 CATV RISER DIAGRAM

NO SCALE

NOTES:

1. ALL CABLING SHALL BE HOMERUNED TO THE RACK ON THE SAME LEVEL.
2. PROVIDE AMPLIFIERS, SPLITTERS, AND TAPS AS REQURED.
3. COORDINATE PROVISION AND CONNECTION OF HEADEND EQUIPMENT WITH SCHOOL.

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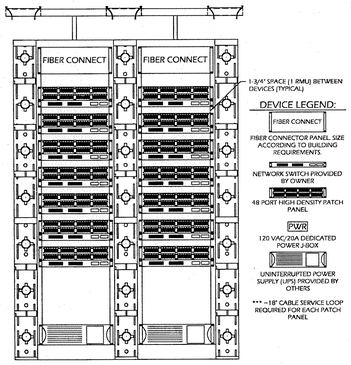
3/18/11	ADDENDUM 3

PROJECT NO: 229.01.00

DATE: FEB 21TH, 2011

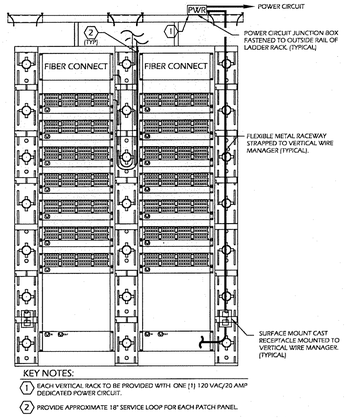
DRAWING TITLE: LV RISER DIAGRAM

E6.10



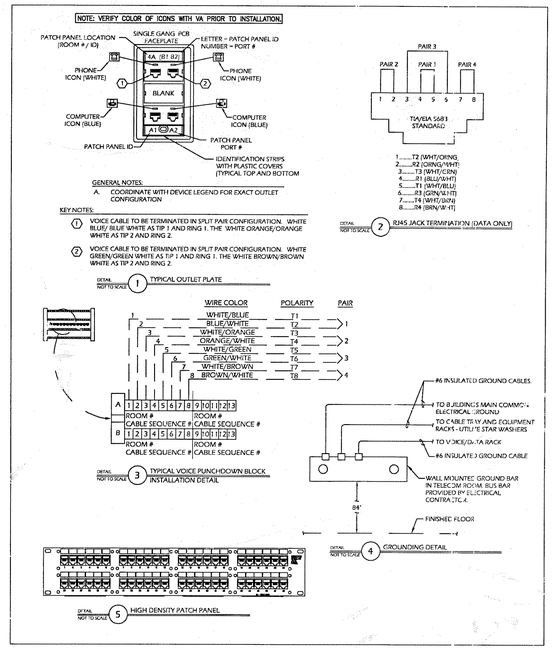
1 E110 TYPICAL TELECOM ROOM FRONT RACK ELEVATION

NO SCALE



2 E110 TYPICAL TELECOM ROOM BACK RACK ELEVATION

NO SCALE



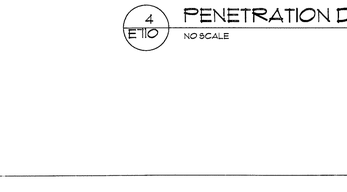
3 E110 TYPICAL TELECOM/LOW VOLTAGE INSTALLATION DETAIL

NO SCALE

UL/cUL SYSTEM NO. F-A-3007

SINGLE CABLE OR BUNDLED CABLE THROUGH CONCRETE FLOOR OR CONCRETE OVER METAL DECKING

F-RATING = 3-HR.
T-RATING = 0-HR.



1. CONCRETE FLOOR ASSEMBLY (3-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
   B. STEEL FLOOR UNIT/FLOOR ASSEMBLY - NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK) OVER METAL DECKING.
2. SINGLE CABLE OR BUNDLED CABLE CONSISTING OF ANY OF THE FOLLOWING :
   A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   B. MAXIMUM 500 KCMIL POWER CABLE WITH PVC JACKET.
   C. MAXIMUM 7/C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   D. MAXIMUM (24 FIBER) 1/2" DIAMETER FIBER-OPTIC CABLE.
   E. MAXIMUM 3/C NO. 12 AWG METAL-CLAD CABLE.
3. HILTI CP 680 CAST-IN FIRESTOP DEVICE, CAST OR GROUTED INTO CONCRETE FLOOR (SEE TABLE BELOW).
4. MINIMUM 1" DEPTH HILTI CP 618 FIRESTOP PUTTY STICK APPLIED AROUND SINGLE CABLE OR CABLE BUNDLE. (SEE NOTE BELOW).

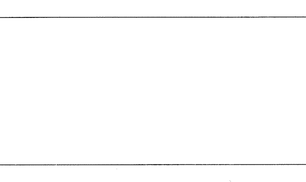
MAX. DIA. OF CABLE BUNDLE	PRODUCT DESCRIPTION
2"	CP 680 75/23"
4-1/2"	CP 680 110/4"
6-1/2"	CP 680 160/6"

NOTE : AS AN ALTERNATE TO HILTI CP 618 FIRESTOP PUTTY STICK, MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) MAY BE TIGHTLY PACKED INTO HILTI CP 680, FLUSH WITH TOP SURFACE OF DEVICE.

UL/cUL SYSTEM NO. CAJ3095

SINGLE OR MULTIPLE CABLES THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR.
T RATING = 0-HR, 1/2-HR, & 3/4-HR.
(SEE U.L. FIRE RESISTANCE DIRECTORY VOL 2)



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MIN. 2-1/2" THICK).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 3" THICK).
   C. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. OPTIONAL: MAXIMUM 6" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 10 OR HEAVIER).
3. MAXIMUM 4" DIAMETER CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING:
   A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   B. MAXIMUM 500 KCMIL POWER CABLE WITH PVC JACKET.
   C. MAXIMUM 7/C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   D. MAXIMUM (24 FIBER) 1/2" DIAMETER FIBER-OPTIC CABLE.
   E. MAXIMUM 3/C NO. 12 AWG METAL-CLAD CABLE.
4. MINIMUM 2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
5. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 6".
2. CABLES TO FILL MINIMUM 25% TO MAXIMUM 45% OF CROSS-SECTIONAL AREA OF OPENING.
3. STEEL FLOOR UNIT/FLOOR ASSEMBLY (NOT SHOWN)-USE FLOOR ASSEMBLY MAY ALSO CONSIST OF MINIMUM 2-1/2" CONCRETE OVER (1-1/2" TO 3" DEEP) FLUTED METAL DECK.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.

UL/cUL SYSTEM NO. C-AJ-1388

MULTIPLE METAL CONDUITS THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR.
T-RATING = 0-HR.

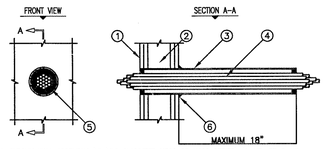
1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEMS TO BE ONE OR MORE OF THE FOLLOWING :
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   B. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. MINIMUM 5" DEPTH HILTI CP 620 FIRE FOAM EXTENDING 1/2" ABOVE THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF WALL AND OVERLAPPING THE CONCRETE 1/2" ON ALL SIDES OF OPENING.

NOTES : 1. MAXIMUM SIZE OF OPENING = 32" x 7".
2. ANNULAR SPACE BETWEEN CONDUITS = 1/2".
3. ANNULAR SPACE BETWEEN CONDUITS AND PERIPHERY OF OPENING = MINIMUM 0", MAXIMUM 2-1/2".

UL/cUL SYSTEM NO. W-L-3065

CABLE BUNDLE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.



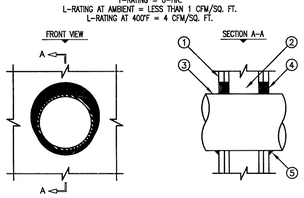
1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. OPTIONAL : MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 5 OR HEAVIER) (SEE NOTE NO. 4 BELOW).
4. CABLE BUNDLE TO CONSIST OF ANY COMBINATION OF THE FOLLOWING :
   A. MAXIMUM 7/C NO. 12 AWG CABLE.
   B. MAXIMUM 25 PAIR NO. 24 AWG TELEPHONE CABLE.
   C. RG 59 COAXIAL CABLE.
   D. MAXIMUM 3/C NO. 8 AWG METAL-CLAD CABLE.
   E. MAXIMUM 3/C (WITH GROUND) NO. 8 AWG COPPER CONDUCTOR CABLE (ROMEX).
   F. MAXIMUM 5/8" DIAMETER FIBER-OPTIC CABLE.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT.
6. SEE NOTE NO. 4 BELOW.

NOTES : 1. MAXIMUM SIZE OF OPENING = 4".
2. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 3/4".
3. CABLES TO FILL MAXIMUM 45% OF CROSS-SECTIONAL AREA OF OPENING.
4. STEEL SLEEVE MAY BE FLUSH WITH WALL SURFACE OR EXTEND UP TO 18" BEYOND WALL SURFACE. WHEN SLEEVE IS EXTENDED BEYOND ONE OR BOTH SIDES OF WALL, APPLY MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT TO WALL/SLEEVE INTERFACE.

UL/cUL SYSTEM NO. W-L-1054

METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400°F = 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8", FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR. FIRE-RATING.
5. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING :
A. 32-1/4" FOR STEEL STUD WALLS.
B. 14-1/2" FOR WOOD STUD WALLS.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/2".

4 E110 PENETRATION DETAILS

NO SCALE

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GEORGIA REGISTERED No. 10984 PROFESSIONAL ENGINEER MARK MINICK

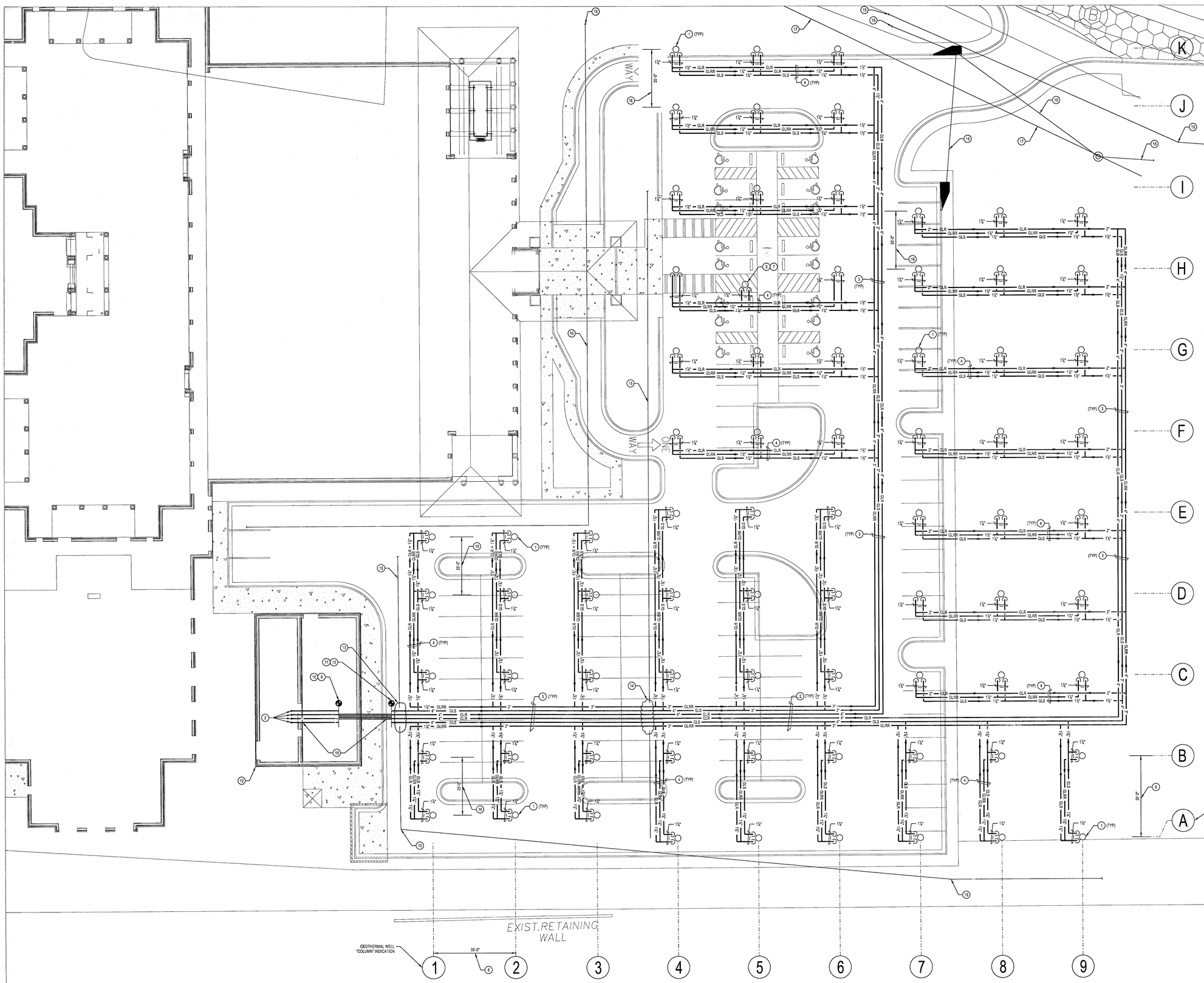
DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/4/11	ADDENDUM #1
3/18/11	ADDENDUM 3

PROJECT NO: 229.01.00

DATE: FEB 21TH, 2011

DRAWING TITLE: LV DETAILS

E7.10



GEOTHERMAL SITE PLAN
SCALE: 1"=16'-0"

NOTES: (THIS SHEET ONLY)

1. GEOTHERMAL LOOP SUPPLY AND RETURN PIPING (GLS/GLR/GLRR) DROPS AT THIS APPROXIMATE LOCATION AND ENTERS GROUTED VERTICAL GEOTHERMAL HEAT PUMP WELL. SEE VERTICAL GEOTHERMAL HEAT PUMP WELL DETAIL ON SHEET G1.12. TYPICAL FOR APPROXIMATELY 75 WELLS AS INDICATED (74 NEW WELLS AND 1 EXISTING/REUSED WELL).
2. PIPING PENETRATES FLOOR SLAB AT THIS APPROXIMATE LOCATION AND ENTERS MECHANICAL ROOM. SEE MECHANICAL ROOM FLOOR PENETRATION/FLOW METER DETAIL ON SHEET G1.11 FOR CONTINUATION.
3. PIPING SUB MAINS ARE ROUTED A MINIMUM OF 4' BELOW GRADE. SEE DETAIL ON SHEET G1.12.
4. PIPING BRANCH-MAINS ARE ROUTED A MINIMUM OF 4' BELOW GRADE (TYPICAL). SEE DETAIL ON SHEET G1.12.
5. EXISTING GEOTHERMAL WELL TO BE REUSED. FUSION WELD HORIZONTAL BRANCH PIPING/ELBOWS TO THIS EXISTING WELL AT THIS APPROXIMATE LOCATION.
6. GEOTHERMAL WELLS ARE LAID OUT ON A ORTHAGONAL GRID WITH 35 FOOT SPACING. HOWEVER, CONTRACTOR MAY SHIFT AN OCCASIONAL INDIVIDUAL WELL UP TO 5' TO AVOID CONFLICTS WITH EXISTING ABOVE GROUND ITEMS OR UNDERGROUND UTILITIES. LARGER DEVIATIONS MUST BE APPROVED BY THE ENGINEER.
7. TCT TEST WELL. SEE TCT REPORT ON SHEET G1.11.
8. GENERAL: DRAWINGS SHOW GENERAL ARRANGEMENT, LAYOUT AND LOCATION OF GEOTHERMAL PIPING/WELLS AND SOME OF THE OFFSETS THAT MAY BE NECESSARY TO INSTALL THE COMPLETE GEOTHERMAL WELL FIELD. CONTRACTOR SHALL OFFSET PIPING AND WELLS AROUND ALL OBSTRUCTIONS AS NEEDED AND INSTALL PIPING OFFSETS BASED ON FIELD MEASUREMENTS AND AT NO ADDITIONAL COST TO THE OWNER. PIPE ROUTING SHOWN ON DRAWINGS SHALL BE ALTERED BY INSTALLING CONTRACTOR WHERE REQUIRED TO AVOID INTERFERENCE AND CLEARANCE DIFFICULTIES, CAREFULLY ROUTING WITH NEW AND EXISTING UTILITIES (E.G. SEWER, STORM DRAIN, DOMESTIC WATER, ELECTRICAL CONDUIT, ETC.) TO AVOID CONFLICTS. SEE ALSO "UNDERGROUND UTILITY WARNING" FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE IF THERE ARE ANY TIME OF DAY LIMITATIONS TO OPERATING NOISY EQUIPMENT (E.G. DRILLING RIGS, BACKHOES, PUMPS, AIR COMPRESSORS, ETC.).
9. CENTERLINE SPACING OF GEOTHERMAL PIPING FROM THIS POINT NORTHWARD IS SHOWN LARGER THAN SCALE FOR CLARITY PURPOSES. ONLY A MINIMUM OF 4" OF CLEARANCE BETWEEN EACH PIPE IS REQUIRED FOR ANY OF THE PIPING ROUTED IN THE TRENCHES.
10. CENTERLINE SPACING OF GEOTHERMAL PIPING BETWEEN SCOPE OF WORK SYMBOLS IS SHOWN NEAR "TO SCALE", HOWEVER, ONLY A MINIMUM OF 4" OF CLEARANCE BETWEEN EACH PIPE IS REQUIRED.
11. CENTERLINE SPACING OF GEOTHERMAL PIPING FROM THIS POINT SOUTHWARD IS SHOWN LARGER THAN SCALE FOR CLARITY PURPOSES. ONLY A MINIMUM OF 4" OF CLEARANCE BETWEEN EACH PIPE IS REQUIRED FOR ANY OF THE PIPING ROUTED IN THE TRENCHES.
12. LOCATION OF NEW PHYSICAL PLANT MECHANICAL ROOM.
13. SEE CIVIL DRAWINGS FOR UTILITIES LOCATED IN THIS GENERAL VICINITY. IT IS ANTICIPATED THAT THE NEW GEOTHERMAL HEAT PUMP PIPING INSTALLATION MAY NOT CONFLICT WITH THE EXISTING (OR NEW) UNDERGROUND UTILITIES IN THIS GENERAL LOCATION AT THEIR "CROSSING POINT". ACCORDINGLY, THE CONTRACTOR SHALL COORDINATE GEOTHERMAL PIPING WITH EXISTING OR NEW UNDERGROUND UTILITIES AT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL ONLY OFFSET THE NEW GEOTHERMAL PIPING IF IT IS REQUIRED TO AVOID A CONFLICT. SEE PIPING OFFSET AT UNDERGROUND UTILITIES DETAIL. SEE CIVIL SITE PLANS FOR ADDITIONAL INFORMATION.
14. SEE CIVIL DRAWINGS FOR UTILITIES LOCATED IN THIS GENERAL VICINITY. DUE TO AN ABSENCE OF THE PIPING INVERT AT THIS LOCATION, IT IS COMPLETELY UNKNOWN IF THE NEW GEOTHERMAL HEAT PUMP PIPING INSTALLATION WILL CONFLICT WITH THE EXISTING (OR NEW) UNDERGROUND UTILITIES IN THIS GENERAL LOCATION AT THEIR "CROSSING POINT". ACCORDINGLY, THE CONTRACTOR SHALL COORDINATE GEOTHERMAL PIPING WITH EXISTING OR NEW UNDERGROUND UTILITIES AT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL OFFSET THE NEW GEOTHERMAL PIPING IF IT IS REQUIRED TO AVOID THIS CONFLICT. SEE PIPING OFFSET AT UNDERGROUND UTILITIES DETAIL. SEE CIVIL SITE PLANS FOR ADDITIONAL INFORMATION.
15. INDICATES GENERAL LOCATION OF NEW OR EXISTING UNDERGROUND UTILITIES OR ABOVE GROUND STRUCTURES. SEE CIVIL SITE PLANS FOR ADDITIONAL INFORMATION AND EXACT LOCATION.
16. IT IS ANTICIPATED, IN THIS GENERAL LOCATION, THAT THE CONTRACTOR WILL NEED TO DEVIATE FROM THE "STANDARD" 35 FOOT SPACING OF THE GEOTHERMAL WELLS, SO THAT CONFLICTS WITH EXISTING UNDERGROUND UTILITIES CAN BE MINIMIZED. CONTRACTOR MAY INCREASE SPACING AS SHOWN BUT MAY NOT SHIFT THE VERTICAL WELL LOCATIONS SUCH THAT ANY WELL IS CLOSER THAN 20' AWAY FROM OTHER WELLS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
17. BOUNDARY SET-BACK LINE. SEE CIVIL SITE PLANS FOR ADDITIONAL INFORMATION.
18. IT IS COMPLETELY UNKNOWN IF THE NEW GEOTHERMAL HEAT PUMP PIPING INSTALLATION WILL CONFLICT WITH THE UNDERGROUND UTILITIES IN THIS GENERAL LOCATION. ACCORDINGLY, THE CONTRACTOR SHALL COORDINATE GEOTHERMAL PIPING WITH UNDERGROUND UTILITIES ASSOCIATED WITH THE GENERATOR INSTALLATION AT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL OFFSET THE NEW GEOTHERMAL PIPING IF IS REQUIRED TO AVOID THIS CONFLICT. SEE CIVIL SITE PLANS FOR ADDITIONAL INFORMATION.

UNDERGROUND UTILITY WARNING:

NOTICE: THE UNDERGROUND GEOTHERMAL HEAT PUMP SYSTEM GROUND HEAT EXCHANGER (GHX) AND ASSOCIATED PIPING SYSTEM IS TO BE INSTALLED IN AN AREA WITH PRE-EXISTING UNDERGROUND UTILITIES (WATER, SEWER, STORM SEWER, FIBER OPTIC/DATA/COMMUNICATION, POWER, ETC.). CONTACT THE GEORGIA UTILITIES PROTECTION CENTER (800-282-7411) AT LEAST ONE WEEK BEFORE YOU DIG/DRILL AND OBTAIN A "UPC LOCATE TICKET" AND "DIG PERMIT" RESPECTIVELY.

THE LOCATION OF SOME OF THESE UTILITIES IS UNKNOWN. THE UTILITIES THAT COULD BE LOCATED BY THE SURVEYOR ARE SHOWN ON THE CIVIL DRAWINGS AND THESE DRAWINGS SHOULD BE CAREFULLY REVIEWED PRIOR TO BEGINNING WORK. ACCORDINGLY, THE CONTRACTOR SHALL USE EXTREME CAUTION DURING EXCAVATION WORK AND REPAIR ANY UTILITIES THAT ARE DAMAGED DURING THE COURSE OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH ALL UNDERGROUND UTILITY TRADES AS REQUIRED.

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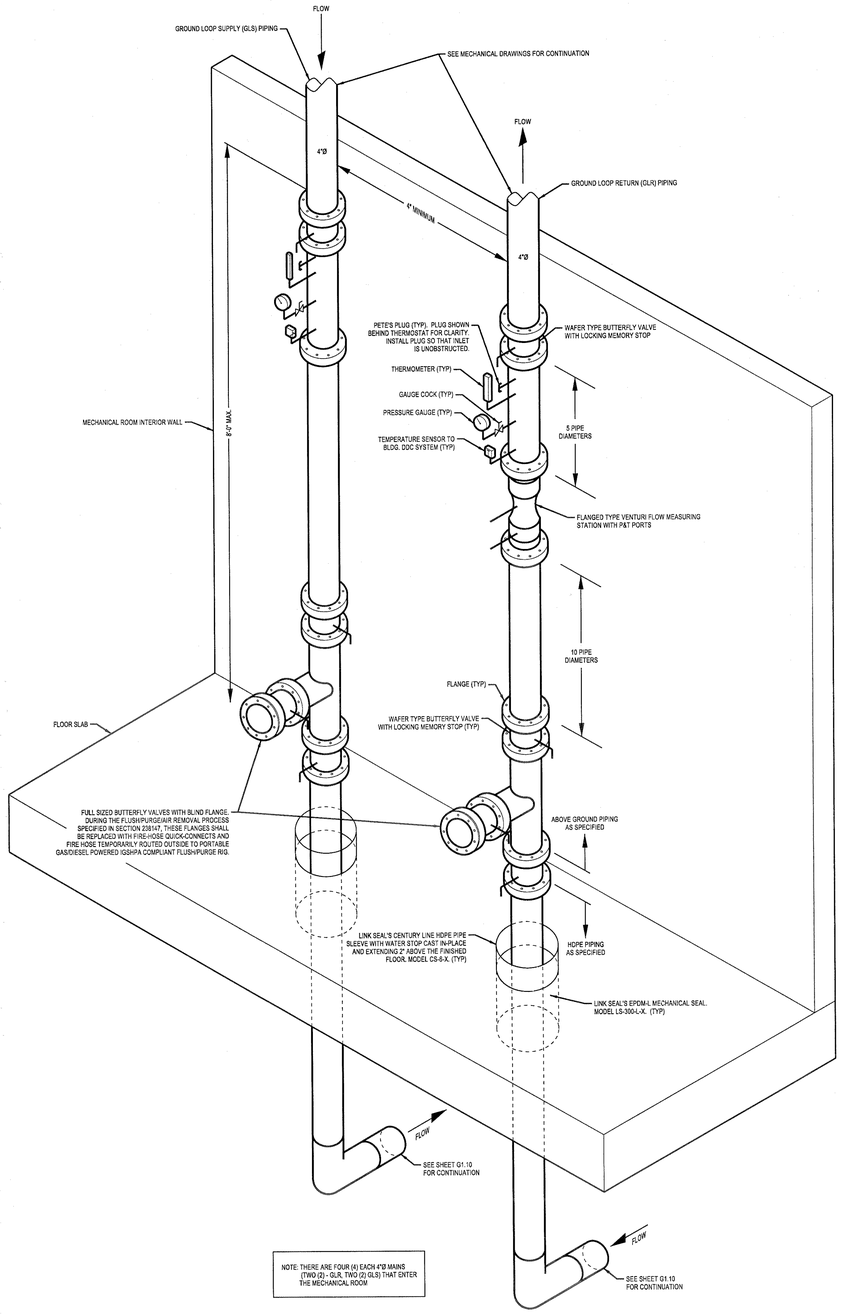
PROJECT NO: 229.01.00

DATE: FEB 21ST, 2011

DRAWING TITLE: GEOTHERMAL SITE PLAN

G1.10



MECHANICAL ROOM FLOOR PENETRATION/FLOW METER DETAIL

SCALE: NONE

1 G2

AH&P CONSULTING ENGINEERS

EXECUTIVE SUMMARY

Formation Thermal Conductivity Testing (TCT) was performed by Andrews, Hammock and Powell, Inc Consulting Engineers (AH&P) in the underground geological formation at the Trinka Davis Veterans Village located in Carrollton, GA. The acquired data is intended to be utilized by a skilled Geothermal Heat Pump System Engineer in a long-term, hour-by-hour, simulation of a Building and its associated Ground Loop Heat Exchanger (GHX) for the purpose of accurately sizing the GHX. This testing was performed during the week of October 25th - 27th, 2010 having been preceded the previous week by the drilling of a nominal 400' borehole. The installation of these boreholes was accomplished by Middle Georgia Water Systems, Inc. The drillers initially utilized a tri-cane bit with air and water to drill through the over-burden and then proceeded with an air-driller, down-hole hammer to drill through the rock after temporarily casing the over-burden. The borehole was 6" diameter and into it was placed a 402' deep, 1-¼" diameter, SDR-11 HDPE piping/u-bend. They then fully grouted it in place from bottom-to-top with thermally enhanced sodium bentonite grout (k=1.05) pumped into the borehole's annulus by means of a "tremie" tube.

Analysis of the data collected by AH&P from the TCT testing equipment was performed by AH&P based on modeling the borehole as a "line source" of energy (heat) input into the formation. Analysis of that data resulted in the calculated average thermal conductivity of the formation presented below. Linear regression was applied to the appropriate collected data. It was determined that there was an excellent fit of temperature vs. natural logarithm of time data to the calculated straight line through the data points as the "correlation coefficient" (R^2) was 0.998.

This report details the formation TCT procedures utilized and the results of the TCT which was performed at a open field location (approximate GPS coordinates N33°35'22", W85°3'29"). The location for the TCT was selected by the Architect to be near the center of the expected location of the bore-field. This bore-field is anticipated to potentially serve a new geothermal heat pump system in the new Trinka Davis Veterans Village, which is expected to be constructed somewhere in the vicinity of the geothermal test wells.

The resultant average Thermal Conductivity (k) of the formation was found from the data analysis to be:

- **Thermal Conductivity(k) of the Formation = 1.71 BTU/(hr-ft-°F)**

The average temperature of the undisturbed formation was directly measured by lowering a special underwater temperature data logger into the water column that had been place in the grouted u-bend/piping the previous week. The average undisturbed formation temperature was:

- **Undisturbed Formation Temperature = 62.4°F**

Thermal diffusivity (α) is calculated by performing a weighted average of the industry standard laboratory determined α values for the various strata encounter by the driller. Its value was:

- **Estimated Thermal Diffusivity (α) = 1.36 ft^2/day**

TCT SUMMARY

AH&P CONSULTING ENGINEERS

FORMATION THERMAL CONDUCTIVITY TEST REPORT

PROJECT INFORMATION:

Project Name:	Trinka Davis Veterans Village – Thermal Conductivity Test
Location:	Carrollton, Georgia
Prepared By:	Chuck W. Hammock, Stephen E. Sullens
Email:	chammock@ahpengr.com, ssullens@ahpengr.com
Client Name:	Peacock Partnership
Contact Email:	Harri Jarvenpaa – harri@peacockpartnership.com

TEST DATA AND CALCULATION RESULTS

Test Date:	October 25, 2010 to October 27, 2010	
Test Duration:	45.533	Hrs
Calculation Interval Utilized:	35.533	Hrs
Average Power:	8,603.7	Watts
Average Heat Input Rate:	29,355.8	Btu/Hr
Average Heat Flux:	21.4	Watt/ft
Average Calculated Flow Rate:	10.2	GPM
Avg. Undisturbed Ground Temp.:	62.4	°F
Estimated Thermal Diffusivity:	1.36	ft^2/day
Formation Thermal Conductivity:	1.71	Btu/(hr*ft*°F)

TCT RESULTS

AH&P CONSULTING ENGINEERS

DRILLING LOG: Provided by Middle Georgia Water Systems, Inc.
GEOLOGICAL CLASSIFICATION: Robert L. Atkins, PG, A&S Environmental Services, Inc.
THERMAL DIFFUSIVITY ANALYSIS: AH&P, Inc.

SIMPLIFIED[1] DRILL LOG			DIFFUSIVITY ANALYSIS	
Depth (ft)	**Range (ft)**	**Description[1]**	**Estimated Diffusivity**	**Weighted Average**
0' – 32'	32'	**Overburden:** Mix of fine to medium sandy silt, with some clay[1]	0.72	0.057
32' – 80'	48'	**Transition Zone:** Mixture of weathered quart with some Gneiss and feldspar[1]	0.96	0.115
80' – 402'	322'	**Rock:** Biotite Gneiss with some granite, schist and other materials[1]	1.48	1.185
		Estimated Overall Thermal Diffusivity (α):		1.36

Notes:
[1]See Appendix A for a comprehensive Geological Drilling Log of the conditions encountered.

Drill Date:	October 7, 2010
Installed U-Bend Depth[3]:	402'
Borehole Diameter:	6"
Pipe/U-Bend Size:	1.25" HDPE, SDR-11
Grout Type:	Wyo-Ben, Inc. brand Wyoming sodium bentonite grout mixed with high silica sand thermal enhancement. After approximately 8' of settlement, borehole was "topped off" with sodium bentonite chips
Grout Mixture:	50# Bag of Wyo-Bend Therm-ex Grout mixed with 300# of DSI Thermal Sand per batch
Grout "Loss":	Driller advised that there were no significant losses of grout to the formation and the actual amount of grout used was close to the calculated (theoretical) volume needed to fill the annulus. See note 3 below for "topping off"
Grout Thermal Conductivity:	Approximately 1.05 Btu/(hr*ft*°F)[2]
Drilling Method:	Primarily air drilling with down-hole hammer. See also note 3 below.
Drilling Time:	Approximately 4 hours overall[3]

Notes:
[1]Driller advised that they had achieved a nominal 400' depth below grade depth with the u-bend. When AHP lowered the deep earth temperature data-logger down inside the wetted u-bend via its support cable, we were able to achieve 402' depth down to the bottom of the u-bend. That is therefore the depth we report herein and is the basis of out thermal conductivity/diffusivity analysis.
[2]Based on Manufacturer's Literature. See Appendix E. Grout thermal conductivity does not impact the "thermal conductivity of the formation" as reported herein.
[3]The driller reported that that the drilling through the overburden and the transition zone was accomplished rapidly (approx. 5 minutes) via a tri-cone bit and air with 2-3 gpm of water and foam. The hole was then temporarily cased to 43' and air drilling with a down-hole hammer commenced. Drilling then proceeded at a rate of approximately 120'/hour through the rock. After drilling was complete, the u-bend placed and grouting completed to the bottom of the temporary casing, the temporary casing was removed and grouting completed. Later, after the grout had settled approximately 8' (possibly due to the 15 gpm, 1"-2" fracture encountered at 120' of depth), the grout was "topped off" with bentonite chips. Static water level in the borehole (from the 15 gpm fracture at 120' had risen to approximately 38' below grade at the time grouting commenced.

TCT DRILL LOG

THERMAL CONDUCTIVITY TESTING (TCT) REPORT/RESULTS/DRILL LOG

SCALE: NONE

2 G2

NOTE: TCT REPORT, RESULTS AND DRILL LOG ARE PROVIDED ABOVE AS A CONVENIENCE TO THE CONTRACTOR TO GIVE A GENERAL IDEA OF THE SUB-SURFACE CONDITIONS AT THE SITE IN A SINGLE LOCATION. THEY ARE NOT A GUARANTEE THESE EXACT CONDITIONS WILL BE ENCOUNTERED AT EACH BORING.

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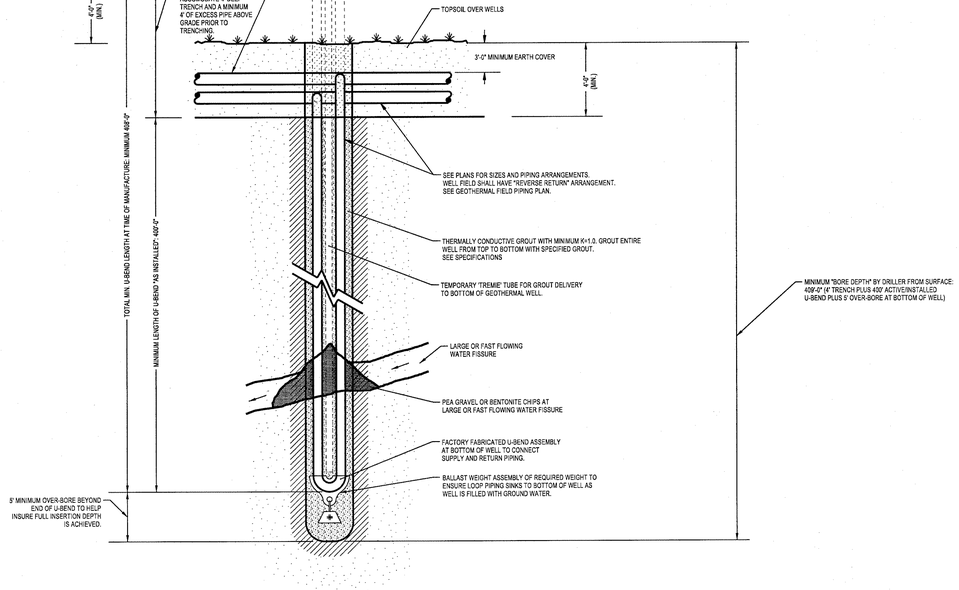
DRAWING TITLE: GEOTHERMAL DETAILS

G1.11

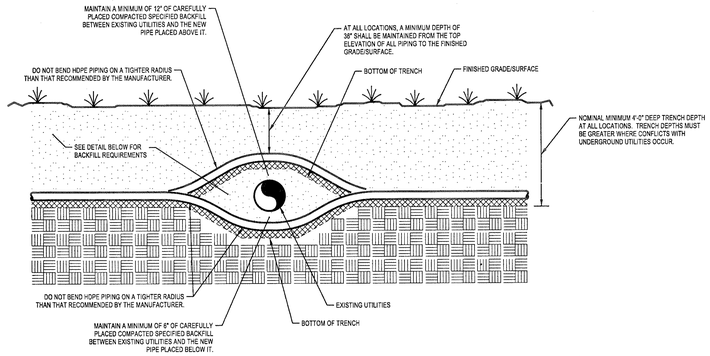
	PIPE SLEEVE THRU WALL OR FLOOR. SEE PIPE SLEEVE DETAIL.
	DROPPING OR RISING PIPE
	PIPE TO OR FROM ABOVE
	ISOLATING BALL VALVE <2", BUTTERFLY VALVE 2">
	CHECK VALVE
	MANUAL COMBINATION VENTURI BALANCING/BALL SHUTOFF VALVE.
BF	CAPPED PIPING, BLIND FLANGE
	PIPE UNION
	FLANGED JOINT
	SPHERICAL RUBBER FLEXIBLE PIPE CONNECTOR
	"Y" TYPE INLINE PIPE STRAINER; 2-1/2" & LARGER WITH BLOWDOWN VALVE
	GAUGE COCK, DIAL TYPE PRESSURE GAUGE.
	THERMOMETER WELL, STEM TYPE THERMOMETER. SEE THERMOMETER DETAIL.
	TEMPERATURE AND PRESSURE TEST PORTS (P&T'S)
	ELBOW - 45°, ELBOW - 90°
	TEE
DB, WB	DRY BULB, WET BULB
SS	STAINLESS STEEL
FPM	FEET PER MINUTE
CFM, ϕ	CUBIC FEET PER MINUTE
OA	OUTDOOR AIR
MBH	BTU/HR x 1000
APPROX.	APPROXIMATELY
HP	HORSEPOWER
RPM	REVOLUTIONS PER MINUTE
UNO	UNLESS NOTED OTHERWISE
AFF	ABOVE FINISHED FLOOR
GPM	GALLONS PER MINUTE
KW	KILOWATTS
△t	TEMPERATURE DIFFERENCE
B.E. T.E.	BOTTOM ELEVATION, TOP ELEVATION
NTS	NOT TO SCALE
	LIMIT OF SCOPE OF WORK
2 / G1	SECTION OR DETAIL IDENTIFICATION NUMBER / SHEET NUMBER ON WHICH SECTION OR DETAIL IS DRAWN

GENERAL NOTES

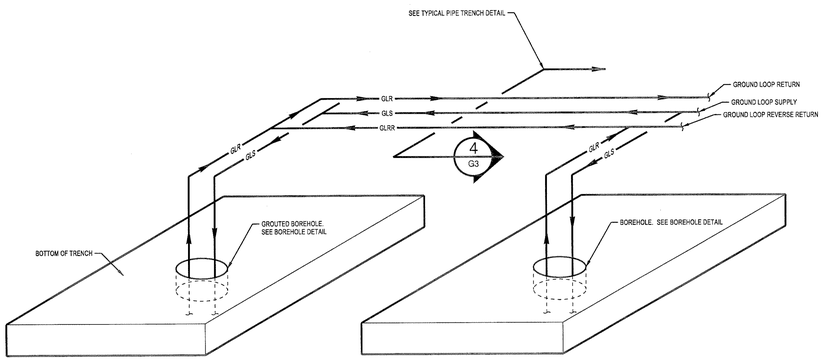
1. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT BUILDING ARRANGEMENT, DIMENSIONS AND DETAILS. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED.
2. COORDINATE PIPE ROUTING AND WITH EXISTING CIVIL, PLUMBING AND ELECTRICAL ABOVE GRADE AND UNDERGROUND INSTALLATIONS AND WITH BUILDING MEMBERS. OFF-SET PIPING AS REQUIRED TO AVOID CONFLICTS WITH OTHER INSTALLATIONS AND EXISTING UTILITIES.
3. PROVIDE PIPE SLEEVE THRU ALL WALLS AND THRU ALL FLOOR SLABS. SEE DETAIL.
4. READ SECTION 230650 IN ITS ENTIRETY BEFORE PURCHASING ANY MATERIALS OR BEGINNING ANY INSTALLATIONS ASSOCIATED WITH THE GEOTHERMAL SYSTEM.



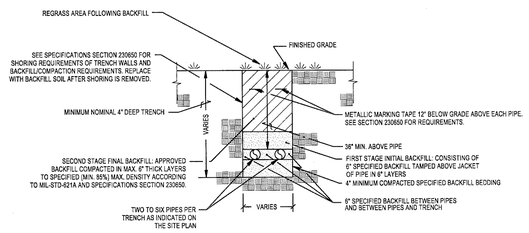
GEOTHERMAL WELL DETAIL — 1 / G3
SCALE: NONE



PIPING OFFSET AT UNDERGROUND UTILITIES DETAIL — 2 / G3
SCALE: NONE



END OF MAIN REVERSE RETURN PIPING ISOMETRIC — 3 / G3
SCALE: NONE



TYPICAL PIPE TRENCH DETAIL — 4 / G3
SCALE: NONE

NOTE: SEE ALSO CIVIL SITE PLAN DRAWINGS FOR ADDITIONAL REQUIREMENTS OR ANY UNDERGROUND PIPING INSTALLATION.

PEACOCK ARCHITECTS
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ANDREWS, HAMMOCK & POWELL, INC.
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MACON, GEORGIA 31210
MACON (478) 405-8301
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WWW.AHPENGR.COM

TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES W. HAMMOCK, JR.

DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID

PROJECT NO: 229.01.00

DATE: FEB 21ST, 2011

DRAWING TITLE: GEOTHERMAL LEGEND, GENERAL NOTES AND DETAILS

G1.12

LANDSCAPE REQUIREMENTS

CANOPY COVERAGE

SITE AREA 12.073 AC = 525,899.90 S.F.

CANOPY REQUIRED ZONED C-2 - 40%=210,359.96 S.F.
CANOPY PROVIDED 48%=252,400 S.F. - REQ. MET

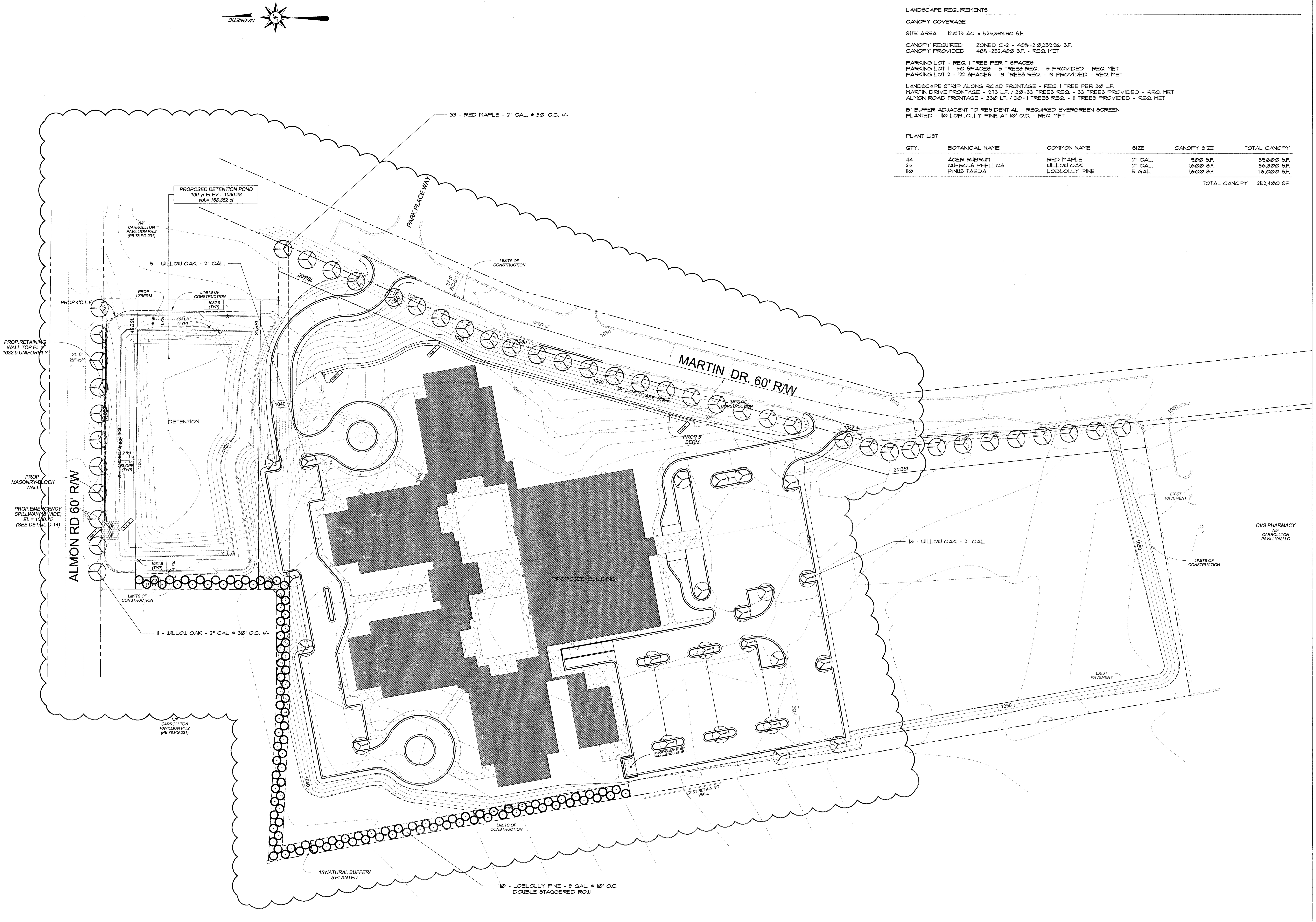
PARKING LOT - REQ. 1 TREE PER 7 SPACES
PARKING LOT 1 - 30 SPACES - 5 TREES REQ. - 5 PROVIDED - REQ. MET
PARKING LOT 2 - 122 SPACES - 18 TREES REQ. - 18 PROVIDED - REQ. MET

LANDSCAPE STRIP ALONG ROAD FRONTAGE - REQ. 1 TREE PER 30 L.F.
MARTIN DRIVE FRONTAGE - 973 L.F. / 30=33 TREES REQ. - 33 TREES PROVIDED - REQ. MET
ALMON ROAD FRONTAGE - 330 L.F. / 30=11 TREES REQ. - 11 TREES PROVIDED - REQ. MET

15' BUFFER ADJACENT TO RESIDENTIAL - REQUIRED EVERGREEN SCREEN
PLANTED - 110 LOBLOLLY PINE AT 10' O.C. - REQ. MET

PLANT LIST

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CANOPY SIZE	TOTAL CANOPY
44	ACER RUBRUM	RED MAPLE	2" CAL.	900 S.F.	39,600 S.F.
23	QUERCUS PHELLOS	WILLOW OAK	2" CAL.	1,600 S.F.	36,800 S.F.
110	PINUS TAEDA	LOBLOLLY PINE	5 GAL.	1,600 S.F.	176,000 S.F,
				TOTAL CANOPY	252,400 S.F.



SITE AREA =
12.073 acres
DISTURBED AREA
= 11.34 acres

CONTOUR INTERVAL = 2 FEET

PROJECT No.	20908-1
LAND LOT(S):	233
DISTRICT:	5th
COUNTY:	CARROLL
SCALE:	1" = 40'

PEACOCK architects
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suite 400
atlanta, georgia 30339
770.803.0900
fax 770.805.0903
planning + landscape architecture

GEORGIA REGISTERED No. 001430 LANDSCAPE ARCHITECT W. CLIFTON BUSSEY, JR.

TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA

DATE	REVISION
03.04.11	ADDENDUM 1

PROJECT NO: / JB+A
229.01.00 / 10077:00

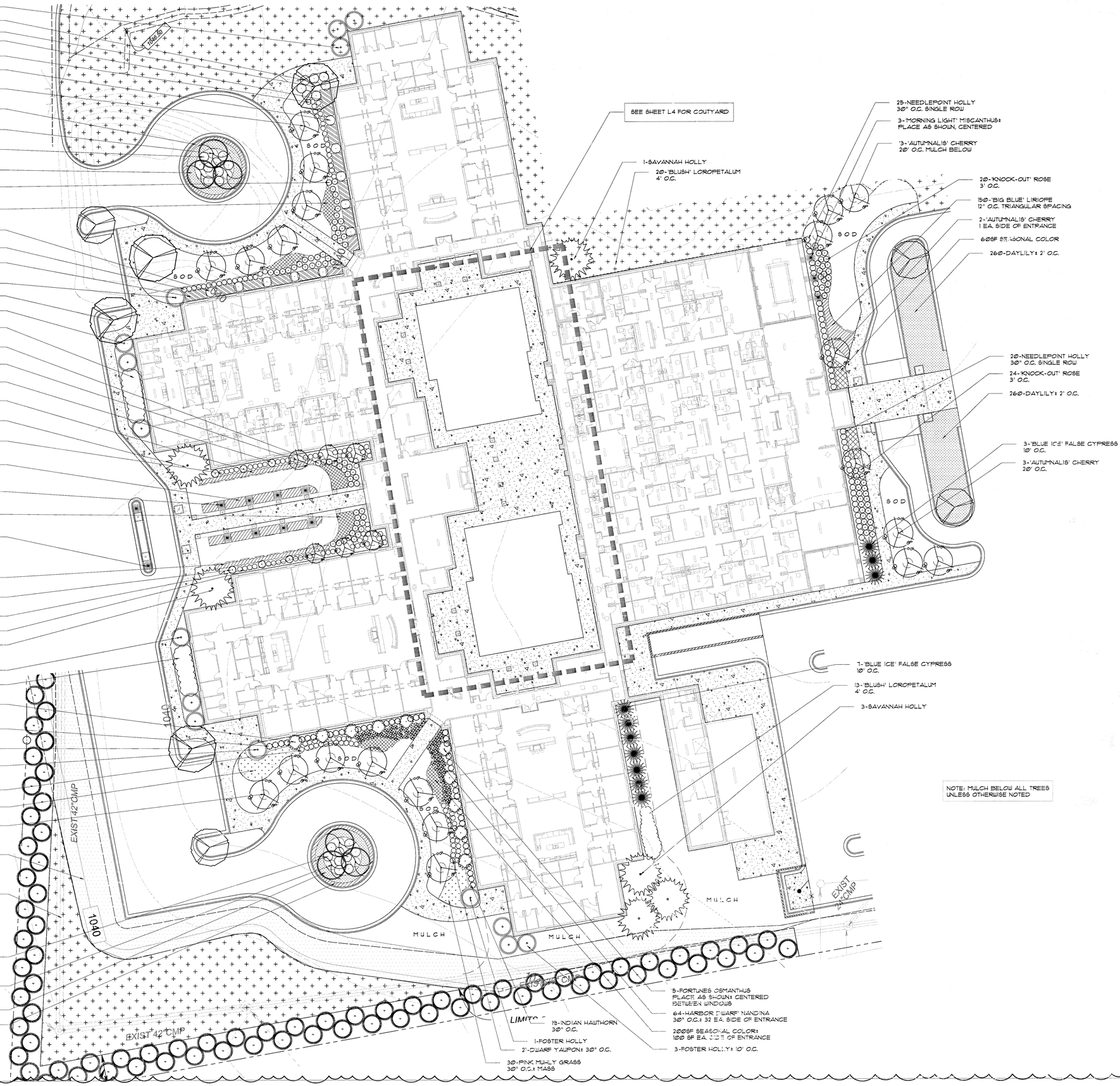
DATE:
FEBRUARY 28, 2011

DRAWING TITLE:
TREE PLAN

L 1

SHEET # OF

3-FOSTER HOLLY± 10' O.C.
7-'BLUSH' LOROPETALUM 4' O.C.
1-WILLOW OAK
90-CAST IRON PLANT, 2' O.C. 5 GROUPS OF 15
21-DWARF YAUPON± 30" O.C.
5-'GOLD DUST' AUCUBA± PLACE AS SHOWN, CENTER BETWEEN WINDOWS
6-'AUTUMNALIS' CHEERY 20' O.C.
100-'BIG BLUE' LIRIOPE 12" O.C. TRIANGULAR SPACING
3-'NATCHEZ' CRAPE MYRTLE STANDARD TRUNK± 20' O.C.
9-'BLUSH' LOROPETALUM 4' O.C.
75- DAYLILY± 2' O.C.
32-GUMPO AZALEA± 30" O.C.± 16 EACH SIDE OF ENTRANCE.
200SF SEASONAL COLOR± 100SF EA. SIDE OF ENTRANCE
5-'GOLD DUST' AUCUBA± PLACE AS SHOWN, CENTER BETWEEN WINDOWS
17-DWARF YAUPON± 30" O.C.
90-CAST IRON PLANT, 2' O.C. 5 GROUPS OF 15
1-FOSTER HOLLLY
2-WILLOW OAK
3-FOSTER HOLLLY± 10' O.C.
15-'BLUSH' LOROPETALUM 4' O.C.
30-GUMPO AZALEA± 30" O.C.± 15 EACH SIDE OF ENTRANCE.
3-DOGWOOD± CENTER BETWEEN WINDOWS
3-CLEYERA± PLACE AS SHOWN, CENTERED BETWEEN WINDOWS
130-'BIG BLUE' LIRIOPE 12" O.C. TRIANGULAR SPACING
1-SAVANNAH HOLLY
31-DWARF YAUPON± 30" O.C.
400-'BIG BLUE' LIRIOPE 12" O.C. TRIANGULAR SPACING 200 EACH SIDE OF COVERED WALKWAY
8-'MORNING LIGHT' MISCANTHUS± 4 EA. SIDE OF COVERED WALKWAY± CENTER ON COLUMN
200SF SEASONAL COLOR± 100 SF EA. SIDE OF ENTRANCE
2-'MORNING LIGHT' MISCANTHUS± CENTER ON COLUMN
130-'BIG BLUE' LIRIOPE 12" O.C. TRIANGULAR SPACING
3-CLEYERA± PLACE AS SHOWN, CENTERED BETWEEN WINDOWS
31-DWARF YAUPON± 30" O.C.
3-DOGWOOD± CENTER BETWEEN WINDOWS
1-SAVANNAH HOLLY
3-FOSTER HOLLLY± 10' O.C.
15-'BLUSH' LOROPETALUM 4' O.C.
5-FORTUNES OSMANTHUS PLACE AS SHOWN± CENTERED BETWEEN WINDOWS
19-INDIAN HAWTHORN 30" O.C.
1-WILLOW OAK
1-FOSTER HOLLLY
19-DWARF YAUPON± 30" O.C.
30-PINK MUHLY GRASS 30" O.C.± MASS
7-'AUTUMNALIS' CHEERY 20' O.C.
HYDROSEED SLOPE WITH LOVE GRASS (APPROX. 10500 SF)
REFORESTATION PLANTING RANDOMLY MIX: 9-TULIP POPLAR 9-RED MAPLE 10-SWEET GUM 10-REDBUD 15' O.C. TRIANGULAR SPACING MULCH BELOW
9-'BLUSH' LOROPETALUM 4' O.C.
3-'NATCHEZ' CRAPE MYRTLE STANDARD TRUNK± 20' O.C.
75- DAYLILY± 2' O.C.
100-'BIG BLUE' LIRIOPE 12" O.C. TRIANGULAR SPACING



SCALE: 1"=20'

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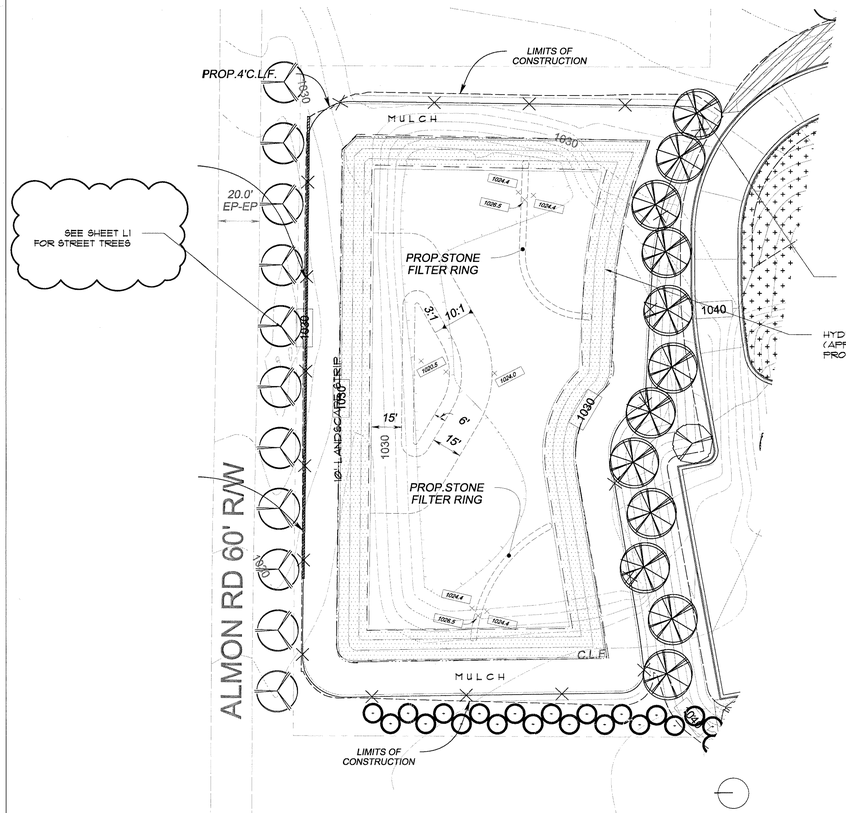
TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA

DATE	REVISION
03.04.11	ADDENDUM 1

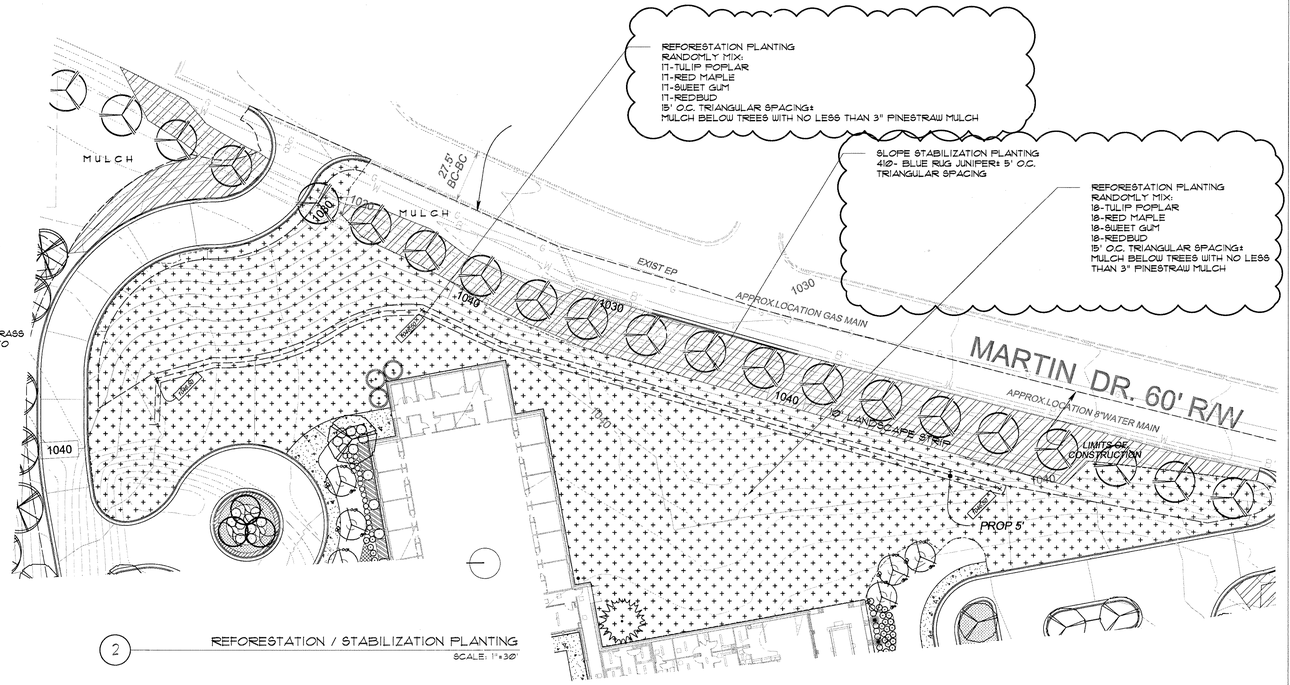
PROJECT NO: 229.01.00
DATE: FEBRUARY 28,2011
DRAWING TITLE: BUILDING LANDSCAPE

L 2

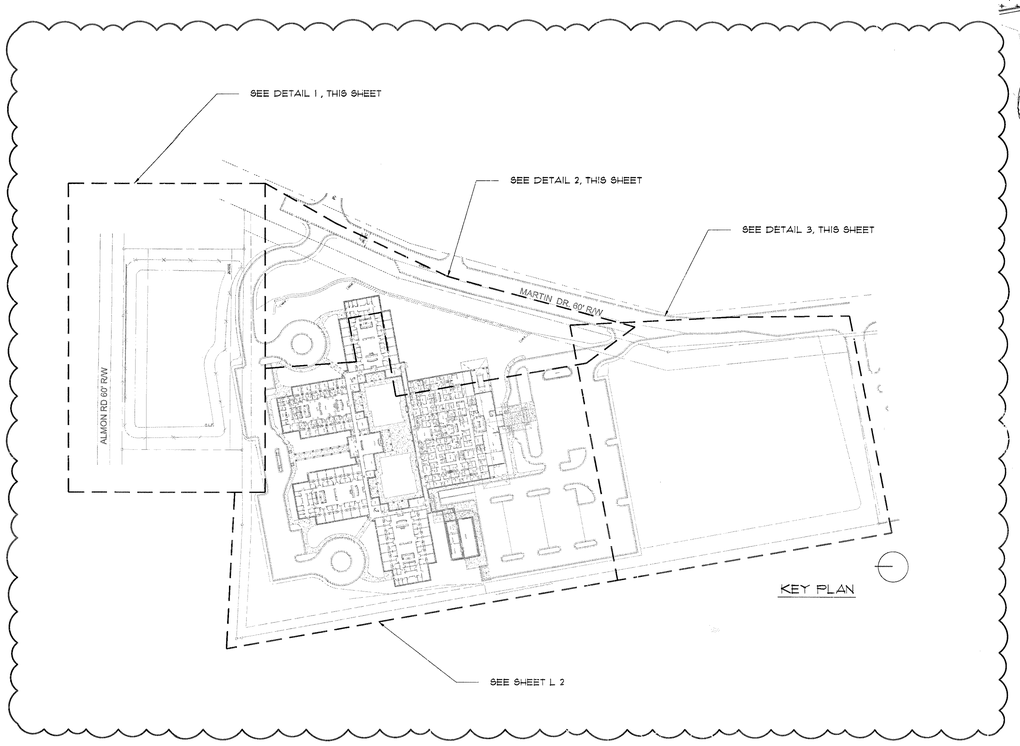
SHEET # OF

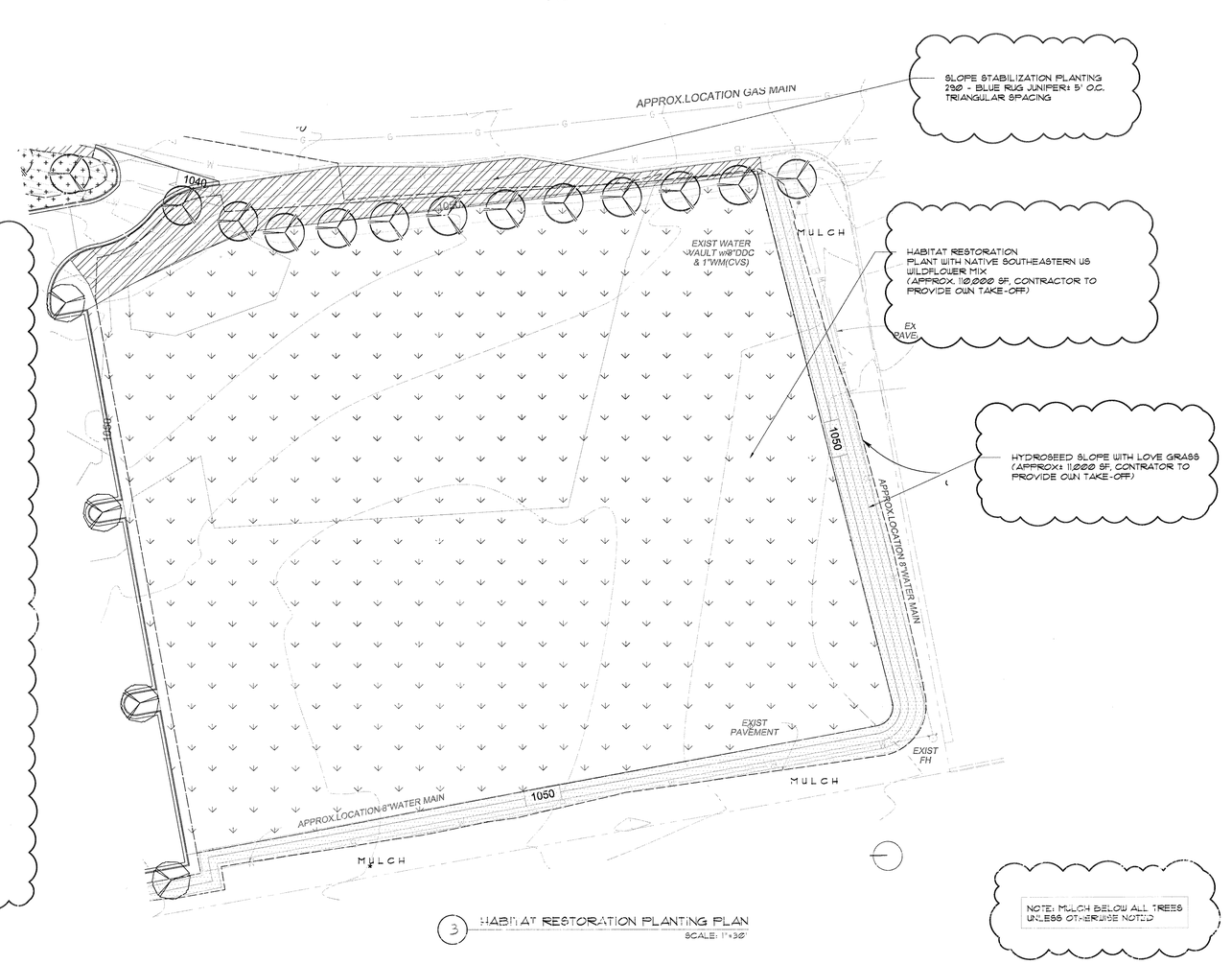


1 DETENTION AREA PLANTING PLAN
SCALE: 1"=30'



2 REFORESTATION / STABILIZATION PLANTING
SCALE: 1"=30'





3 HABITAT RESTORATION PLANTING PLAN
SCALE: 1"=30'

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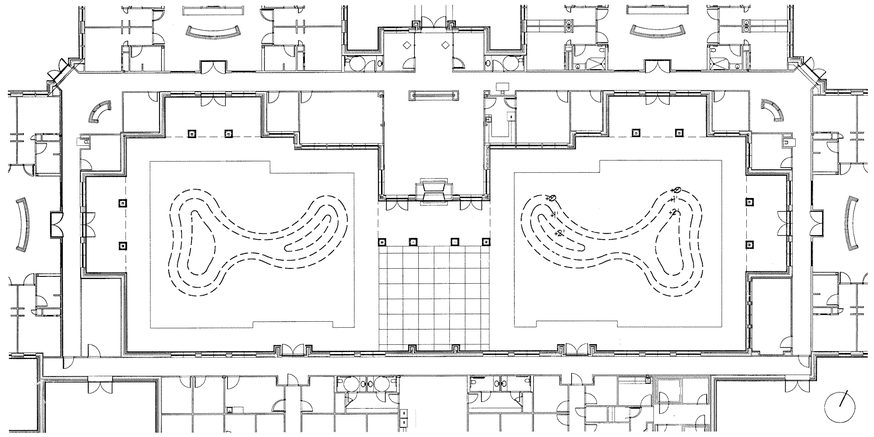
TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA

DATE	REVISION
03.04.11	ADDENDUM 1

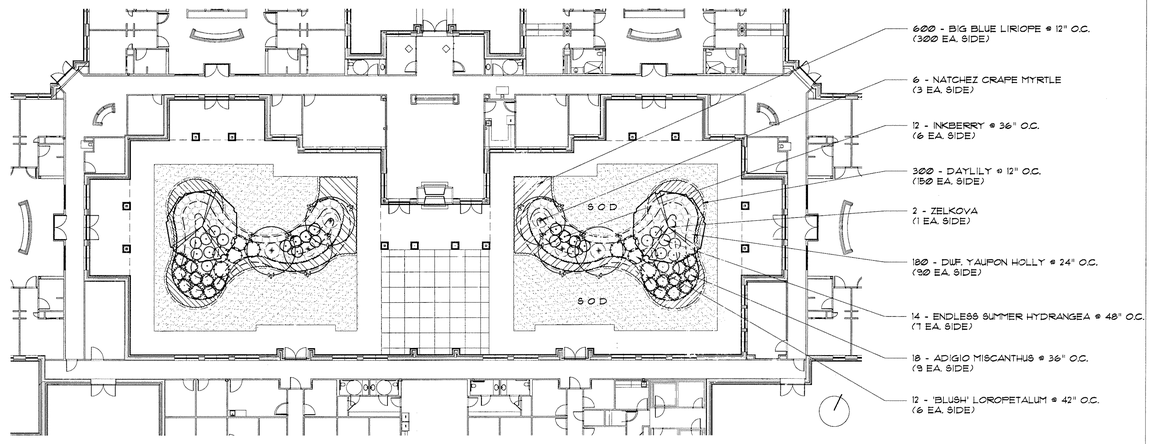
PROJECT NO: 229.01.00
DATE: FEBRUARY 28,2011
DRAWING TITLE: PLANTING ENLARGMENTS

L 3

SHEET # OF

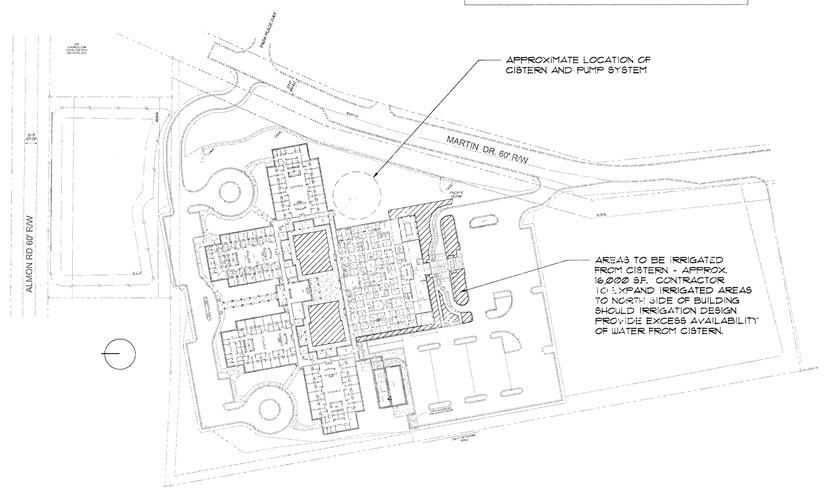


1 COURTYARD BERMING PLAN
SCALE: 1"=20'



2 COURTYARD PLANTING PLAN
SCALE: 1"=20'

NOTE: IRRIGATION IS TO BE DESIGN/BUILD BY GENERAL CONTRACTOR PER DESIGN SPECIFICATION PROVIDED.



3 LIMITS OF IRRIGATION
SCALE: 1"=60'

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TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA

DATE	REVISION
03.04.11	ADDENDUM 1

PROJECT NO:
229.01.00

DATE:
FEBRUARY 28,2011

DRAWING TITLE:
COURTYARD DETAILS & LIMITS OF IRRIGATION

L 4

GENERAL PLANTING NOTES

1. THE QUANTITIES INDICATED ON THE MATERIAL SCHEDULE ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR, BUT SHOULD NOT BE ASSUMED TO ALWAYS BE CORRECT. IN THE EVENT OF A DISCREPANCY, THE PLANTING PLAN WILL TAKE PRECEDENCE OVER THE THE MATERIAL SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY PERTAINING TO THOSE QUANTITIES AND ANY OTHER RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS.

2. THE CONTRACTOR SHALL NOT CHANGE OR SUBSTITUTE PLANT VARIETIES OR SPECIES WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT.

3. ALL LANDSCAPE MATERIAL INSTALLATION SHALL CONFORM TO THE CURRENT STANDARDS OF THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004) AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, AND THE REPAIR OF ANY DAMAGE INCURRED DURING THE EXECUTION OF THE WORK.

5. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL CONSTRUCTION CODES AND SECURING ALL NECESSARY PERMITS.

6. THE CONTRACTOR SHALL MAKE PERIODIC INSPECTIONS OF THE PROJECT DURING THE GUARANTEE PERIOD TO SATISFY HIMSELF THAT ESTABLISHMENT RATE OF GROUTH IS ADEQUATE. ANY METHODS OR PRODUCTS DEEMED NOT NORMAL OR DETRIMENTAL TO GOOD PLANT GROUTH SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IN WRITING. FAILURE TO INSPECT AND REPORT WILL BE INTERPRETED AS **APPROVAL AND THE CONTRACTOR** SHALL BE RESPONSIBLE FOR ANY AND ALL REPLACEMENTS.

7. **REFER TO THE GRADING** PLAN FOR ROUGH GRADES OF PLANTING BEDS. **FINAL GRADES ARE SUBJECT TO** APPROVAL BY LANDSCAPE ARCHITECT.

8. PLANT MATERIAL TO BE PLACED AS SHOWN ON THE PLANTING PLANS. ALL PLANT MATERIAL SHALL BE SUBJECTED TO APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO BACKFILLING AND MULCHING.

9. DO NOT SCALE FROM DRAWING.

10. NEW SHRUB PLANTING IS TO BE A MINIMUM OF 24" AWAY FROM EXISTING TREES.

11. PLANTING PLAN IS FOR THE LOCATION AND IDENTIFICATION OF VEGETATION ONLY. NO OTHER WORK IS TO BE PERFORMED BASED ON THIS PLAN.

12. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE OF ALL PLANTING PITS AND PLANT BEDS PRIOR TO INSTALLATION.

13. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE DETERMINED BY OWNER.

14. THE PLANTING SOIL MIX SHALL CONSIST OF THE FOLLOWING:

FOR TREES, SHRUB, AND GROUNDCOVERS
50% TOPSOIL
50% PREPARED ADDITIVES (BY VOLUME AS FOLLOWS)

3 PARTS - ORGANIC SOIL CONDITIONER (NATURE'S HELPER OR EQUAL)
1 PART - STERILIZED COW MANURE
COMMERCIALLY AVAILABLE STARTER FERTILIZER @ RATES SPECIFIED BY MANUFACTURER
LIME (AS RECOMMENDED IN SOIL ANALYSIS)

15. TOPSOIL HAS BEEN (OR WILL BE) STOCKPILED FOR RE-USE IN LANDSCAPE WORK. IF QUANTITY OF STOCKPILED TOPSOIL IS INSUFFICIENT, PROVIDE ADDITIONAL TOPSOIL AS REQUIRED TO COMPLETE LANDSCAPE WORK.

IF TOPSOIL FOR LANDSCAPE WORK IS NOT AVAILABLE ON-SITE THEN TOPSOIL MUST BE FURNISHED AS SPECIFIED.

PROVIDE NEW TOPSOIL THAT IS FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES, LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER **EXTRANEOUS OR TOXIC MATTER HARMFUL TO** PLANT GROUTH.

OBTAIN TOPSOIL FOR LOCAL SOURCES OF FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT PROJECT **SITE. OBTAIN TOPSOIL ONLY FROM** NATURALLY, WELL DRAINED SITES WHERE TOPSOIL OCCURS IN A DEPTH OF NOT LESS THAN 4 INCHES. DO NOT OBTAIN FROM BOGS OR MARSHES.

16. PREPARATION FOR PLANTING LAWNS

LOOSEN SUBGRADE OF LAWN AREAS TO A MINIMUM DEPTH OF 6 INCHES. REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSION. REMOVE STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER. LIMIT PREPARATION TO AREAS WHICH WILL BE PLANTED PROMPTLY AFTER PREPARATION.

SPREAD TOPSOIL, TILL AND RAKE, TO MINIMUM 4 INCH DEPTH TO MEET LINES, GRADES, AND ELEVATIONS SHOWN, AFTER LIGHT ROLLING AND NATURAL SETTLEMENT.

PLACE APPROXIMATELY 1/2 OF TOTAL AMOUNT OF TOPSOIL REQUIRED AND WORK INTO TOP 4 INCHES OF LOOSENED SUBGRADE TO CREATE A TRANSITION LAYER. ADD REMAINING TOPSOIL AND MIX THOROUGHLY.

17. MULCH WITH PINESTRAW.

SEASONAL COLOR INSTALLATION

1. EXCAVATE SEASONAL COLOR BED TO A DEPTH OF 4". REMOVE EXISTING SOIL FROM SITE. BREAKTHROUGH "HARD PAN" AND REMOVE ALL STONE, ROOTS, DEBRIS, ETC. ROTO TILL EXCAVATED BED AN ADDITIONAL 6-8" IN DEPTH.

2. PREPARE PLANTING SOIL MIX CONSISTING OF TOPSOIL AND THE FOLLOWING SOIL AMENDMENTS PER 50 SQ. FT.:

50% TOPSOIL
50% PREPARED ADDITIVES (BY VOLUME AS FOLLOWS)

3 PARTS - SOIL CONDITIONER (NATURE'S HELPER OR EQUAL)
1 PART - STERILIZED COW MANURE
COMMERCIAL FERTILIZER @ 4 LBS./CU YD.
LIME (AS RECOMMENDED IN SOIL ANALYSIS)

3. ADD 6" OF PLANTING SOIL TO EXCAVATED BED & ROTO TILL INTO EXISTING SOIL.

4. ADD SUFFICIENT PLANTING SOIL MIX TO RAISE ENTIRE BED 8" ABOVE ORIGINAL GRADE.

5. PLANT SEASONAL COLOR AS SPECIFIED AND AT SPACING INDICATED BELOW.

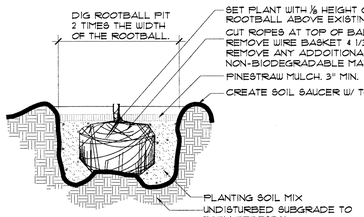
A. TO PREPARE FOR TULIPS: ROTO TILL 14" MIN. BELOW FINISH GRADE. EVENLY SPREAD 12-4-8 FERTILIZER AT 2.5 LBS. PER 100 SQ. FT. RAKE MIX INTO TOP 6" OF SOIL. PLACE BULBS AT RECOMMENDED PLANTING DEPTH.

B. TO PREPARE FOR PANSIES: BRING PLANT BED TO FINISH GRADE WITH PLANTING SOIL MIX. EVENLY SPREAD 6-12-12 FERTILIZER AT 2.5 LBS. PER 100 SQ. FT. AND RAKE MIX INTO TOP 6" OF SOIL. PLANT 8"O.C.

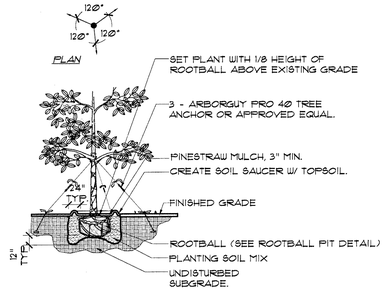
C. TO PREPARE FOR SUMMER ANNUALS: BRING PLANT BED TO FINISH GRADE WITH PLANTING SOIL MIX. EVENLY SPREAD 14-14-14 RAKE MIX INTO TOP 6" OF SOIL. PLANT 12"O.C.

6. EDGE SEASONAL COLOR BED & MULCH WITH MINI NUGGETS, 3" DEEP.

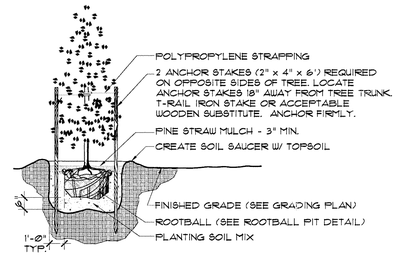
7. WATER THOROUGHLY.



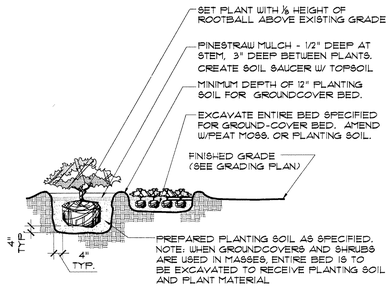
1 ROOTBALL PIT DETAIL
N.T.S.



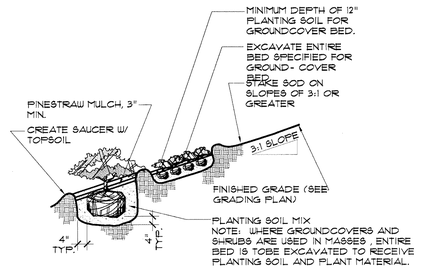
2 TREE STAKING DETAIL
N.T.S.



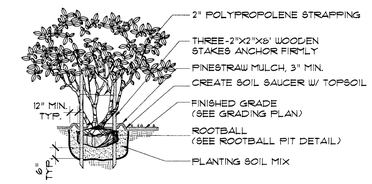
3 EVERGREEN STAKING DETAIL
N.T.S.



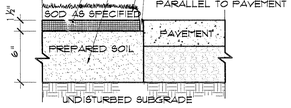
4 SHRUB & GROUNDCOVER PLANTING DETAIL
N.T.S.



5 SHRUB & GROUNDCOVER ON SLOPE DETAIL
N.T.S.



6 MULTI-TRUNK STAKING DETAIL
N.T.S.



7 SOD DETAIL
N.T.S.

NOTE: USE TRENCH EDGER AT ALL EDGES OF BEDLINES TO CONTAIN MULCH.

8 SEASONAL COLOR PLANTING DETAIL
N.T.S.

NOTE: USE TRENCH EDGER AT ALL EDGES OF BEDLINES TO CONTAIN MULCH.

9 TRENCH EDGER DETAIL
N.T.S.

WILDFLOWER MIX - SOUTHEAST		
Botanical Name	Common Name	Flower Color
Rudbeckia hirta	Black-Eyed Susan	Yellow
Gypsophila elegans	Baby's Breath	White
Eschscholzia californica	California Poppy	Yellow/Orange
Echinacea purpurea	Purple Coneflower	Purple
Rudbeckia amplexicaulis	Clasping Coneflower	Yellow
Centaurea cyanus	Dwarf Cornflower	Blue
Coreopsis lanceolata	Lance-Leaved Coreopsis	Yellow
Coreopsis tinctoria	Plains Coreopsis	Yellow/Maroon
Cosmos sulphureus	Sulphur Cosmos	Yellow/Orange
Linum grandiflorum rubrum	Scarlet Flax	Scarlet
Mirabilis jalapa	Four-O'Clock	Red/Pink/Yellow/White
Gaillardia pulchella	Annual Gaillardia	Yellow/Red
Gaura lindheimeri	Gaura	White
Lupinus perennis	Perennial Lupine	Blue
Lavatera trimestris	Tree Mallow	White/Pink
Seed per lb.	181,000	
Planting Rate	14-28 lbs/acre	
Acceptable Planting Times	Spring, Early Summer, Fall	

PLANT LIST

L 1	L 2	L 3	L 4	TOTAL	BOTANICAL NAME	COMMON NAME	SIZE/CAL.	HT.	CONT.	REMARKS
					LARGE TREES					
44	9	35		88	Acer rubrum	Red Maple	1 1/2 -2"	8'-10'	B&B	Full, Well branched
	10	35		45	Liquidambar styraciflua	Sweetgum	1-1 1/2"	8'-10'	B&B	Well branched, Dense
	9	35		44	Liriodendron tulipifera	Tulip Poplar	1-1 1/2"	8'-10'	B&B	Well branched, Dense
110				110	Pinus taeda	Loblolly Pine	5 gal	4-6'	Cont.	Full to ground, Dense, Well branched
23	8			31	Quercus phellos	Willow Oak	2-2 1/2"	12'-14'	B&B	Well branched, dense, Straight trunk
		12		12	Taxodium distichum	Bald Cypress	2-2 1/2"	10-12'	B&B	Well branched, Dense, Full to the ground
			2	0	Zelkova serrata 'Village Green'	Village Green Zelkova	2-2 1/2"	12'-14'	B&B	Matched, High crotch, Well branched
					SMALL TREES					
	10	35		45	Cercis canadensis	Eastern Redbud	1-1 1/2"	6'-8'	B&B	Full, Well branched
	10			10	Chamaecyparis pisifera ' Baby Blue Ice"	Baby Blue Ice False Cypress	2-2 2/1"	6'-8'	B&B	Specimen, Well branched, Full
	6			6	Cornus florida	Flowering Dogwood	2-2 1/2"	8'-10'	B&B	Full, Well branched
	6			6	Lagerstroemia indica 'Natchez'	Natchez' Crape Myrtle	1 1/2-2"	7-8'	B&B/Cont.	Standard, Staight, Matched Trunk, Full, Dense
			6	0	Lagerstroemia indica 'Natchez'	Natchez' Crape Myrtle	1 1/2-2"	8'-10'	B&B/Cont.	Multi-trunk, 5-7 Canes, Full, Dense
	21			21	Prunus subhirtella autumnalis	Autumnalis Cherry		2-2 1/2"	B&B	Specimen, Full well branched, Dense
					SHRUBS					
	10			10	Aucuba japonica 'Gold Dust'	Gold Dust Aucuba		20-24"	Cont.	Upright, full, well rooted in pot
	6			6	Cleyera japonica	Cleyera		24-30"	Cont.	Full, Well rooted in pot
			14	0	Hydrangea macrophylla 'Endless Summer'	Endless Summer Hydrangea		24-30"	Cont.	Multiple canes, Good branching, Full
	45			45	Ilex cornuta 'Needlepoint'	Needlepoint Holly	3 Gal.	18-21"	Cont.	Full, Dense, Bushy
			12	0	Ilex glabra	Inkberry Holly		4-5'	Cont.	Full, Well rooted in pot
	140		180	140	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	3 Gal.	18-21"	Cont.	Full, Well rooted in pot
	15			15	Ilex x attenuata "Foster's no.2"	Foster Holly		6-8'	Cont.	Full to ground, dense
	6			6	Ilex x attenuata "Savannah"	Savannah Holly		8-10'	Cont.	Full, Well rooted in pot
	83		12	88	Loropetalum chinense 'Blush'	Blush Loropetalum		24-30"	Cont.	Full to ground, Well branched, Dense
	64			64	Nandina domestica 'Harbor Dwarf'	Harbor Dwarf Nandina		15-18"	Cont.	Full, Well rooted in pot
	10			10	Osmanthus x fortunei	Fortune's Osmanthus		4-5'	Cont.	Full, Well rooted in pot
	38			38	Raphiolepis indicum	Indian Hawthorn		18-21"	Cont.	Full, Well rooted in pot
	62			62	Rhododendron (Satsuki hybrid)	White Gumpo Azalea		15-18"	Cont.	Full, Well rooted in pot
	44			44	Rosa 'Knock-out'	Knock Out Rose		18-21"	Cont.	Multiple canes, Good branching, Full
					GROUND COVER					
	180			180	Aspidistra elatior	Cast Iron Plant	Pint		Cont.	Full, Well rooted in pot
	670		300	670	Hemerocallis Hybrida 'Stella de Oro'	Stella D'Oro Daylily	1Gal.		Cont.	Full, Well rooted in pot
		700		700	Juniperus horizontalis 'Wiltoni'	Blue Rug Juniper	3 Gal.		Cont.	Full, Well rooted in pot
	1,010		600	1,010	Liriope Muscari 'Big Blue'	Big Blue Lirope	4" Pot		Cont.	Full, Well rooted in pot
	660			660	Seasonal Color		FLAT		Cont.	Full, Well rooted in pot
					GRASSES					
	13			13	Miscanthus sinensis 'Morning Light'	Morning Light Miscanthus	3 Gal.		Cont.	Full, Well rooted in pot
			18	0	Miscanthus sinensis 'Adiago'	Adiago Miscanthus	3 Gal.		Cont.	Full, Well rooted in pot
	60			60	Muhlenbergia capillaris	Pink Muhly Grass	4 Gal.		Cont.	Full, Well rooted in pot
					SOD/TURF					
				0	Eragrostis curvula	Weeping Love grass	Sq.Ft.		Seed	Certified pure, weed free, Hydroseed
				0	Southeastern Wildflower Mix	Wildflower Mix	Sq.Ft.		Seed	Certified pure, weed free, Hydroseed
				0	Cynodon dactolon'tifway 419'	Tifway bermuda grass '419'	Sq.Ft.		Sod	Certified pure, weed free

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TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA

DATE	REVISION
03.04.11	ADDENDL M 1

PROJECT NO: 229.01.00
DATE: FEBRUARY 28,2011
DRAWING TITLE: PLANTING DETAILS, NOTES AND PLANT LIST

L 5

SHEET # OF

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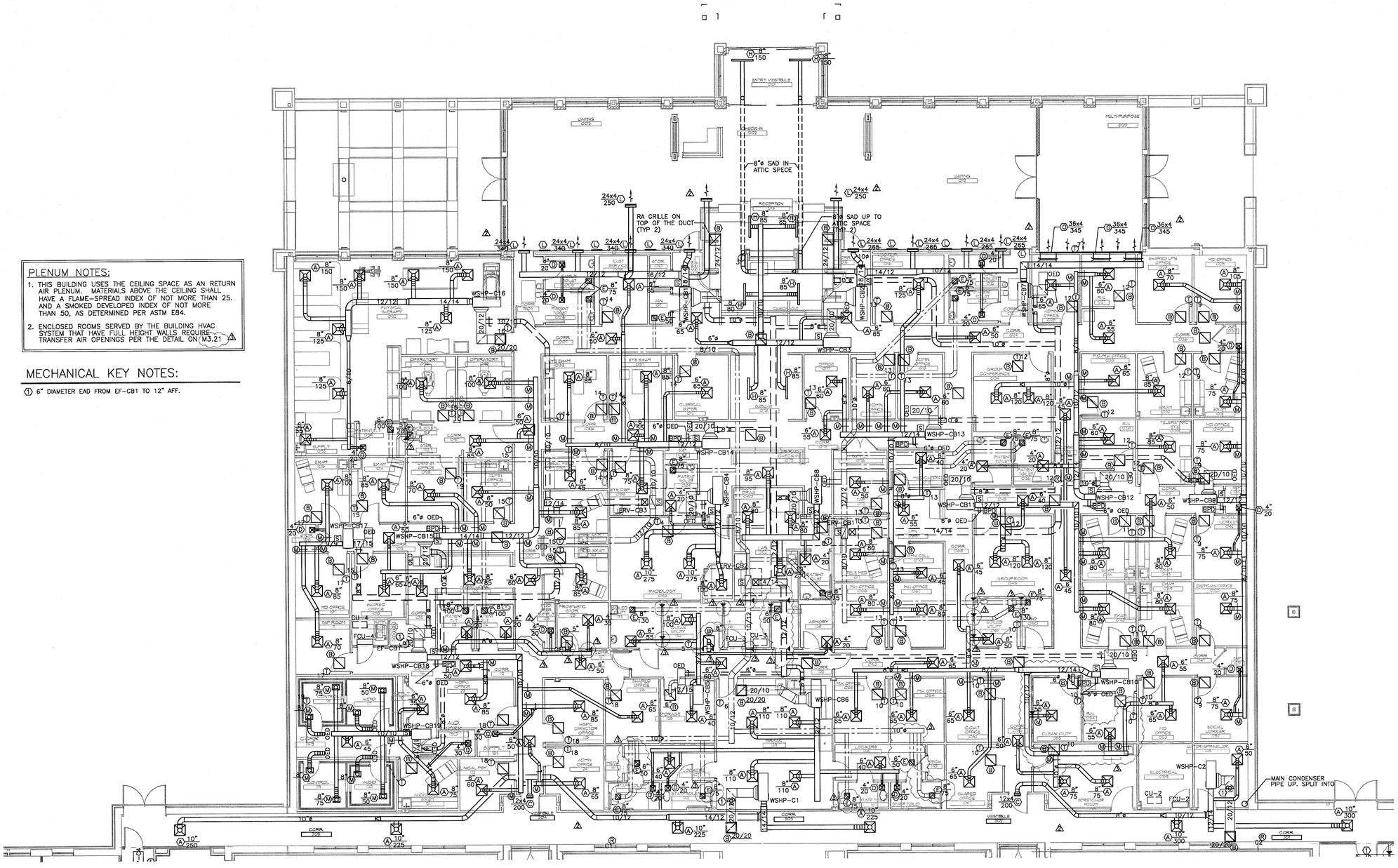
ARCHITECTS
2000 RIVEREDGE PARKWAY
SUITE SEVEN HUNDRED
ATLANTA GEORGIA 30328
404-214-5200 PHONE
404-214-5208 FAX

PLENUM NOTES:

1. THIS BUILDING USES THE CEILING SPACE AS AN RETURN AIR PLENUM. MATERIALS ABOVE THE CEILING SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25. AND A SMOKED DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED PER ASTM E84.
2. ENCLOSED ROOMS SERVED BY THE BUILDING HVAC SYSTEM THAT HAVE FULL HEIGHT WALLS REQUIRE TRANSFER AIR OPENINGS PER THE DETAIL ON (M3.21) ⚠

MECHANICAL KEY NOTES:

① 6" DIAMETER EAD FROM EF-CB1 TO 12" AFF.



1 / M1.10 MECHANICAL PLAN - CBOC
SCALE: 1/8" = 1'-0"

TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON GA 30117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/11/11	ADDENDUM 2
3/18/11	ADDENDUM 3

PROJECT NO:
229.01.00

DATE:
FEB 21TH, 2011

DRAWING TITLE:
MECHANICAL PLAN - CBOC

M1.10

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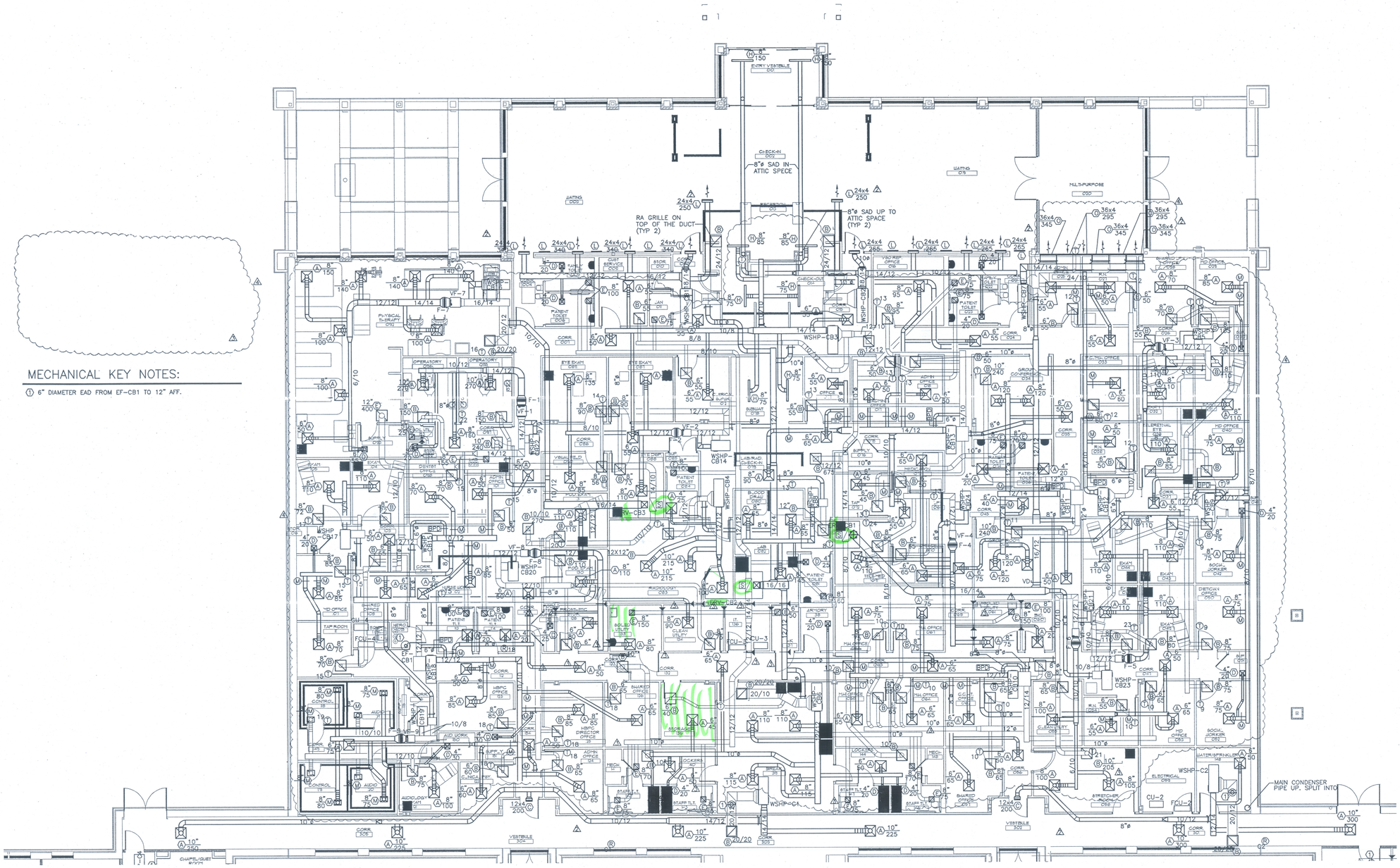

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1 / M1.10 MECHANICAL PLAN - CBOC
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2/21/11	ISSUED FOR BID
3/11/11	ADDENDUM 2
3/18/11	ADDENDUM 3
4/28/11	REVISION 1

PROJECT NO: 229.0'.00

DATE: FEB 21TH, 201

DRAWING TITLE: MECHANICAL PLAN - CBOC

M1.10