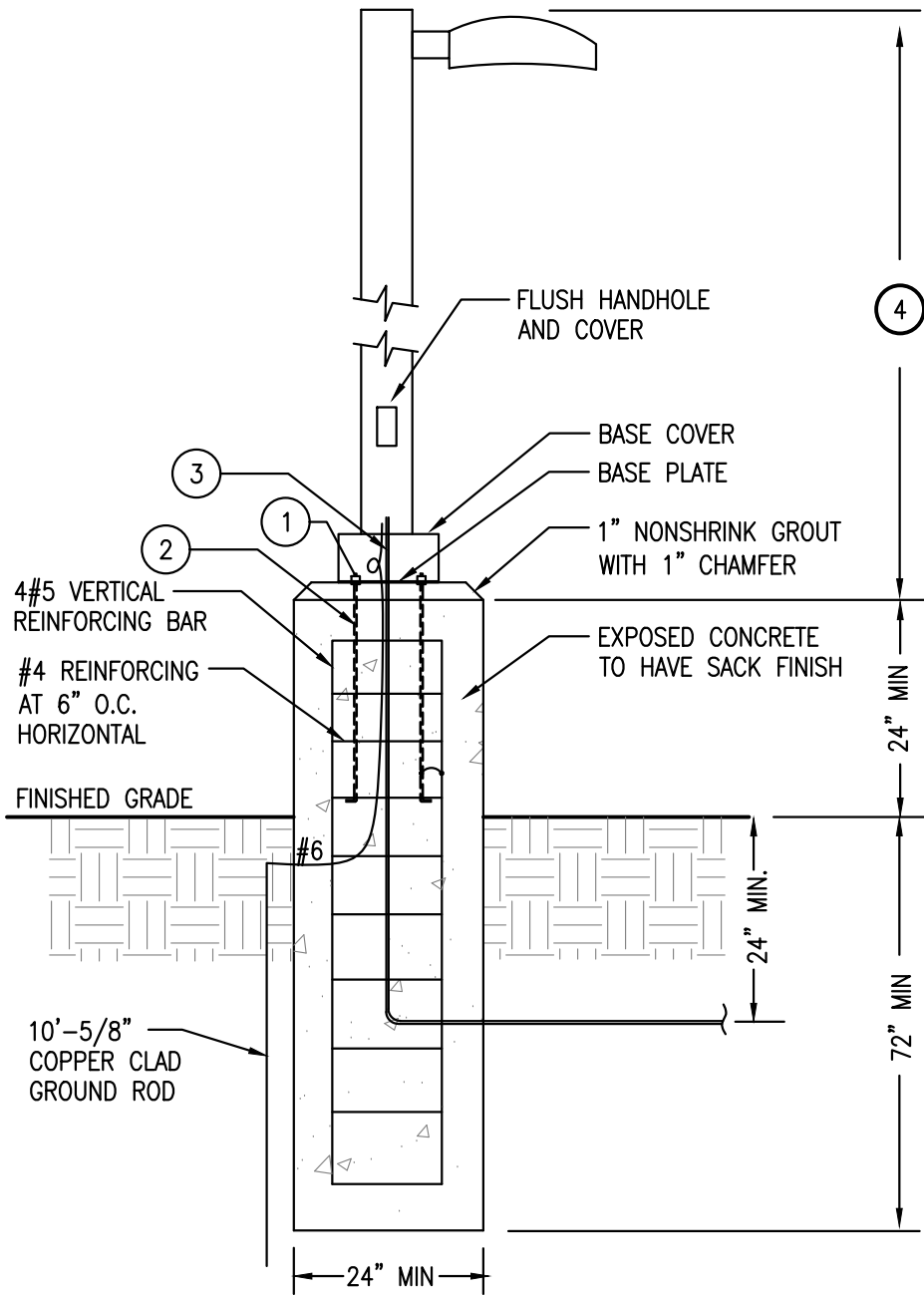
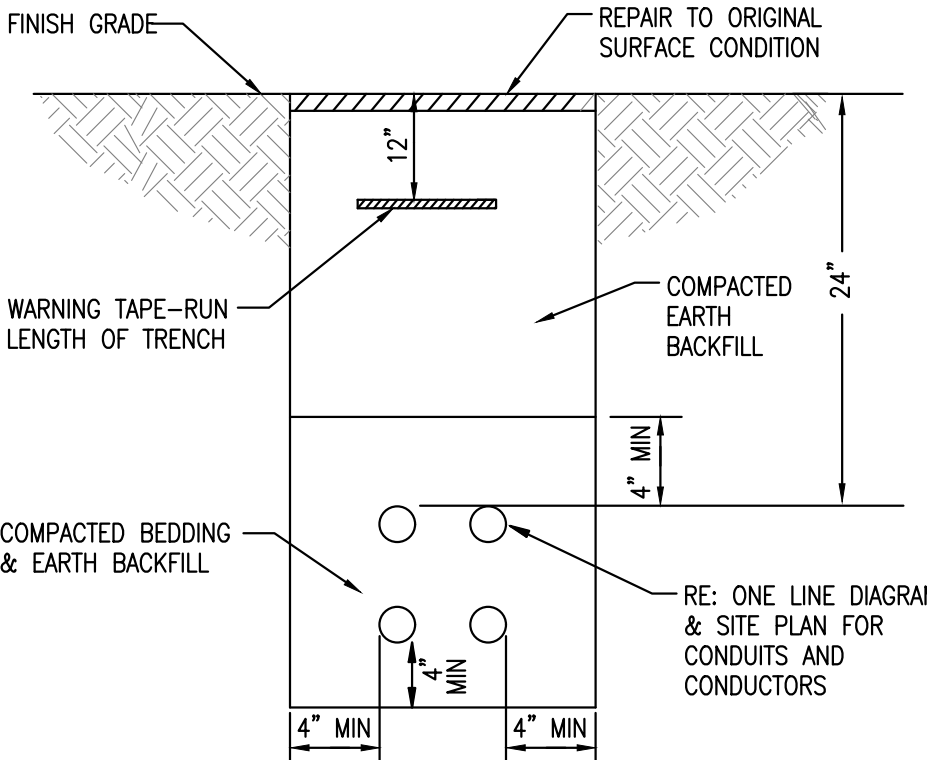


LUMINAIRE SCHEDULE - LYONS VALLEY -EXTERIOR							3/9/2020
LUMINAIRE	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	VOLTAGE	MOUNTING	COMMENTS
PL1	LITHONIA	DSX0 LED P3 30K T1FM VOLT SPA PER7 HS DDBXD	LED	71	240	POLE	Note #1
PL2	LITHONIA	DSX0 LED P7 30K T2S VOLT SPA PER7 HS DDBXD	LED	166	240	POLE	Note #2
<div>Notes:</div> <div>General Note: Contractor shall provide and coordinate all fixture mounting accessories.</div> <div>1. Provide wind rated pole for area. Refer to mounting detail for base. Provide with DLL127F1.5 JU photocell.</div> <div>2. Provide wind rated pole for area. Refer to mounting detail for base. Provide with DLL127F1.5 JU photocell.</div>							



2 LIGHT POLE DETAIL - PL1,PL2

SCALE: NTS



3 UNDERGROUND CONDUIT DETAIL

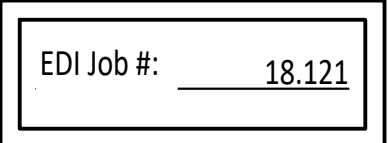
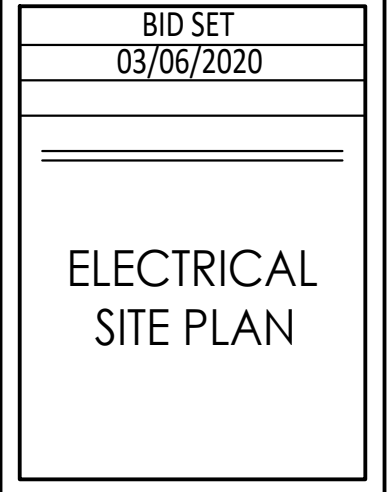
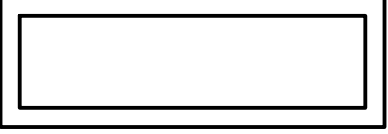
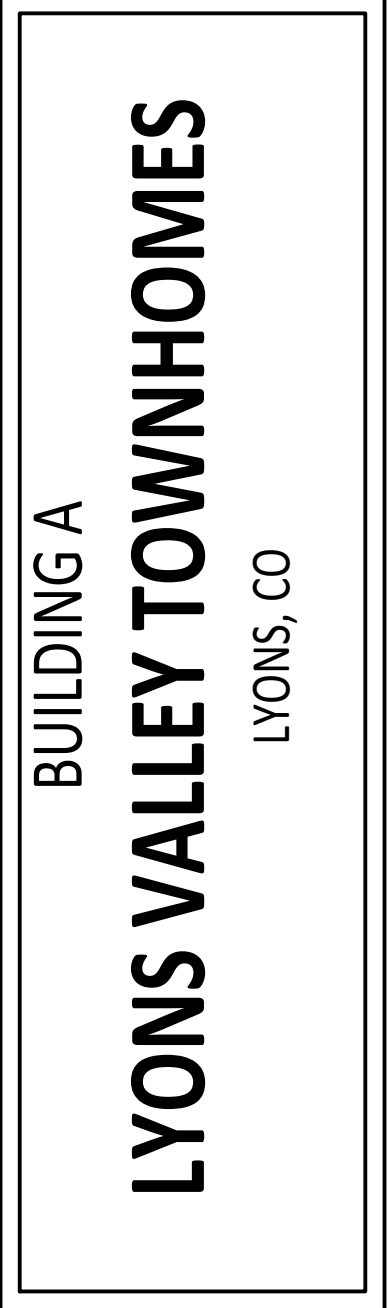
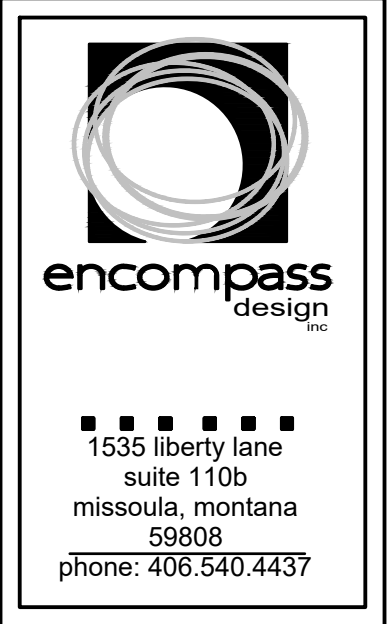
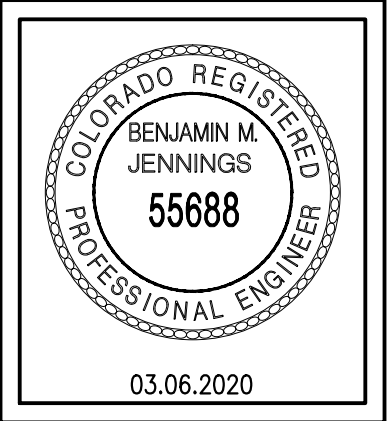
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GENERAL NOTES:

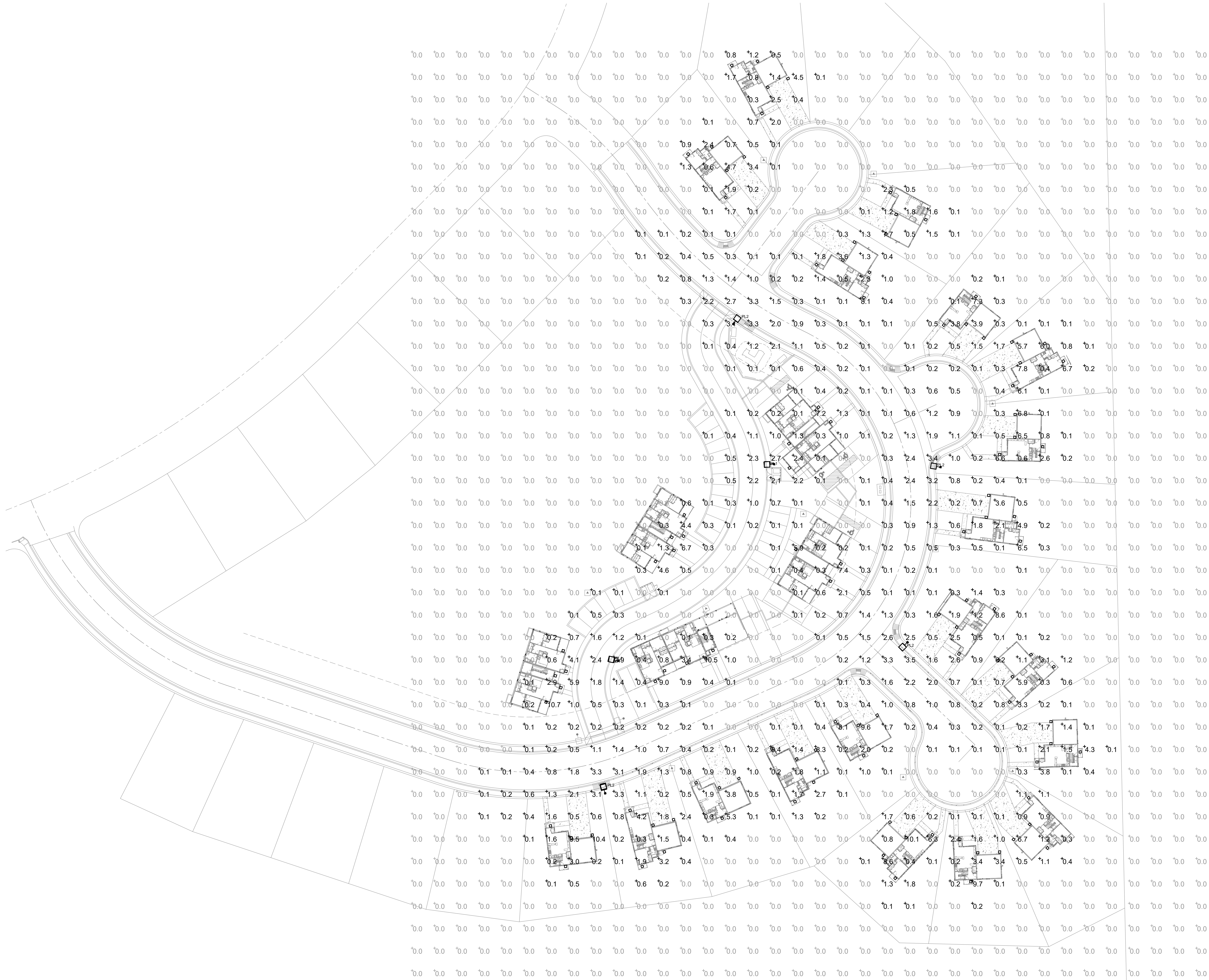
- A. ELECTRICAL CONTRACTOR TO PROVIDE ALL SECONDARY CABLING, CONDUIT, AND TRANSFORMER PADS AS REQUIRED BY THE CITY OF LYONS.
- B. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, CONDUIT AND CABLING FOR ROADWAY LIGHTS. COORDINATE INSTALLATION WITH ELECTRICAL UTILITY COMPANY.
- C. REFER TO EACH SET OF BUILDING PLANS SHEET E3.0 FOR LOAD CALCULATIONS.
- D. GREEN COMMUNITY REQUIREMENTS:
-INSTALL INDIVIDUAL ELECTRIC METER FOR EACH UNIT.
-INSTALL CONDUIT FOR PV ARRAY PROVISIONS. REFER TO SHEET E5.0.
- E. FIRE ALARM PANELS CONNECTED TO FACP IN BUILDING A OFFICE. FA SERVICE TO BUILDING A. COORDINATE WITH LOCAL FIRE MARSHALL.
- F. TYPE A AND A/V UNIT QUANTITIES; REFER TO ARCHITECTURAL PLANS FOR DETAILS:
1 TYPE A SINGLE FAMILY UNIT
1 TYPE A AND 1 TYPE A/V IN BUILDING A
1 TYPE A IN BUILDING B

KEYED NOTES:

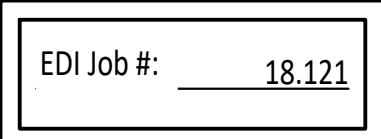
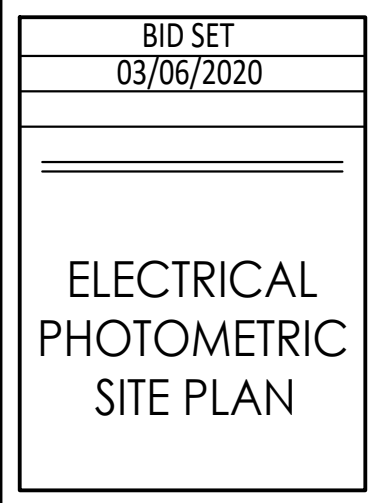
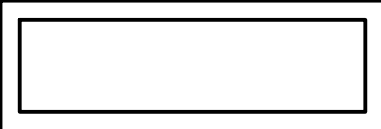
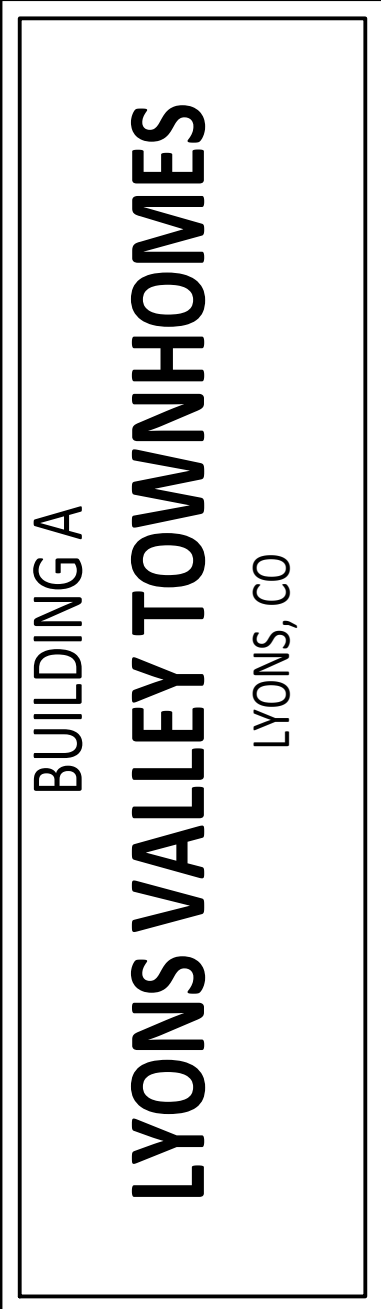
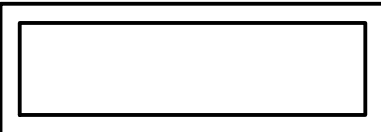
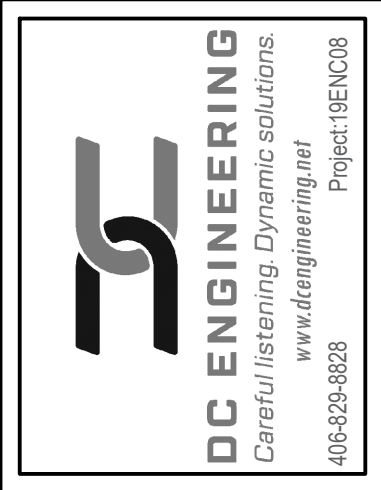
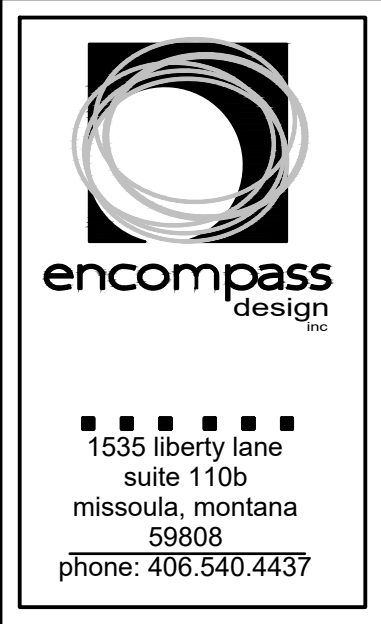
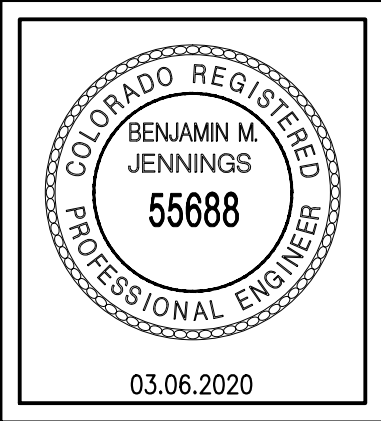
1. PAD MOUNTED TRANSFORMER FOR BUILDING C. SUGGESTED LOCATION, REFER TO CIVIL PLANS; CONFIRM WITH UTILITY.
2. PAD MOUNTED TRANSFORMER FOR BUILDINGS A & B. SUGGESTED LOCATION, REFER TO CIVIL PLANS; CONFIRM WITH UTILITY.
3. PAD MOUNTED TRANSFORMER FOR BUILDINGS D & E. SUGGESTED LOCATION, REFER TO CIVIL PLANS; CONFIRM WITH UTILITY.
4. ROADWAY LIGHTING CONTROLLED VIA PHOTOCELL MOUNTED ON BLD A, FACING NORTH AND AWAY FROM AMBIENT LIGHT.
5. BUILDING A LOCATION.
6. ELECTRICAL SERVICE IS 240/120 SINGLE PHASE; 400 AMPS. REFER TO SHEET E30 FOR BUILDING LOAD CALCULATIONS.
7. ELECTRICAL SERVICE IS 240/120 SINGLE PHASE; 600 AMPS. REFER TO SHEET E30 FOR BUILDING LOAD CALCULATIONS.
8. ELECTRICAL SERVICE IS 240/120 SINGLE PHASE; 200 AMPS.
9. PAD MOUNTED TRANSFORMER FOR SINGLE FAMILY HOMES. SUGGESTED LOCATION, REFER TO CIVIL PLANS; CONFIRM WITH UTILITY.



NOT FOR CONSTRUCTION



1 ELECTRICAL PHOTOMETRICS
SCALE: 1" = 40'-0"



NOT FOR CONSTRUCTION

PANELBOARD SCHEDULE																	
PANEL: A (MULTI-FAM UNITS)			PROJECT: Lyons														
VOLTAGE: 240/120V			PHASE: 1		WIRE: 3		AMP PER RATING: 125			SC RATING: 10,000			MAIN: MLO				
ENTRY: TOP/BOTTOM			MOUNTING: SURFACE														
LOADS:			Amps		VA		LOAD TYPES:			REMARKS:							
PHASE A: 0			0				1 = LIGHTING			PROVIDE A F150/G3 PROTECTION WHERE REQUIRED BY CODE EVEN IF NOT SHOWN ON PLANS							
PHASE B: 0			0				2 = RECEPTACLES			* AFCI CIRCUIT BREAKER							
							3 = MISC			* A F150/G3 COMBO BREAKER							
TOTAL: 0			0				4 = MOTOR			*** PROVIDE PERMANENTLY MOUNTED CIRCUIT BREAKER LOCK-OFF DEVICE							
LOAD (VA)	LOAD SERVED						LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED		LOAD (VA)	
	* RECEPT. LIVING ROOM						2	20	1	1	A	2	20	1	2	* RECEPT. REFER	
	RECEPT. BATHROOM						2	20	1	3	B	4	20	1	2	** RECEPT. KITCHEN	
	RANGE						2	50	2	5	A	6	20	1	2	** RECEPT. KITCHEN	
	RANGE						2	*	* 7	B	8	20	1	2	** DISHWASHER		
	** RECEPT. HOOD MICRO						2	20	1	9	A	10	20	1	1	* LIGHTING/SMOKE DETECTORS	
	* RECEPT. BED ROOM 1						2	20	1	11	B	12	20	1		SPARE	
	* RECEPT. BED ROOM 2						2	20	1	13	A	14	20	1	2	* WASHER	
	CARPORT RECEPT.						2	20	1	15	B	16	30	2	2	DRYER	
	GARAGE DISPOSAL						2	20	1	17	A	18	*	* 2		DRYER	
	SPARE						2	20	1	19	B	20	30	2	3	***WATER HEATER	
	CU						4	25	2	21	A	22	*	* 3		***WATER HEATER	
	CU						4	*	* 23	B	24	15	1	4		FURNACE	

PANELBOARD SCHEDULE																	
PANEL: H (Buildings A&B)				PROJECT: Lyons													
VOLTAGE: 240/120V		PHASE: 1		WIRE: 3		AMP/PERATING: 225				SC RATING: 22,000				MAIN: MLO			
ENTRY: TOP/BOTTOM				MOUNTING: SURFACE													
LOADS:		Amps		VA		LOAD TYPES:				REMARKS:							
PHASE A: 75		9893		1 = LIGHTING				PANELBOARD, COPPER BUSSES, BOLT ON BREAKERS, DOOR-IN-DOOR									
PHASE B: 81		9673		2 = RECEPTACLES				* GFCI CIRCUIT BREAKER									
				3 = MSC				**ONLY FOR BUILDING A									
TOTAL: 78		18656		4 = MOTOR													
LOAD (VA)	LOAD AREA SERVED					LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD AREA SERVED		LOAD (VA)		
200	FACP					3	20	1	A	2	20	1	3	RADON FAN		500	
875	EBB-1,2 CORRIDOR					3	20	2	B	4	20	1	2	OUTDOOR RECEPTACLES		1080	
875	EBB-1,2 CORRIDOR					3	*	*	5	A	6	20	1	2	MECHANICAL ROOM RECEPTS		360
500	EWH-1					3	20	2	7	B	8	20	1	2	ERV-1		42
500	EWH-1					3	*	*	9	A	10	20	1	2	TTB RECEPT		360
384	BUILDING COMMON LIGHTING					1	20	1	11	B	12	20	*	2	**ROAD LIGHTING BUILDINGS A THRU E		106
180	CORRIDOR RECEPTS.					1	20	1	13	A	14	*	*	2	**ROAD LIGHTING BUILDINGS A THRU E		106
200	EF-2					4	20	1	15	B	16	20	*	2	**ROAD LIGHTING FOR CARTER DR.		332
									17	A	18	*	*	2	**ROAD LIGHTING FOR CARTER DR.		332
1140	**DSC- 1/DSI-1					3	15	2	19	B	20	20	1	2	**OFFICE RECEPTS.		720
1140	**DSC- 1/DSI-1					3	*	*	21	A	22						
44	**OFFICE EF-2s					3	20	1	23	B	24						
180	**RESTROOM RECEPTS.					2	20	1	25	A	26						
3250	**OFFICE WH-2					3	35	2	27	B	28						
3250	**OFFICE WH-2					3	*	*	29	A	30						
1000	**EBB-2 OFFICE					3	20	2	31	B	32						
1000	**EBB-2 OFFICE					3	*	*	33	A	34						
									35	B	36						
									37	A	38						
									39	B	40			FUTURE PV BREAKER SPACE			
									41	A	42			FUTURE PV BREAKER SPACE			

LUMINAIRE SCHEDULE - LYONS VALLEY						3/9/2020	
LUMINAIRE	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	VOLTAGE	MOUNTING	COMMENTS
A	BROWNLEE	2062 16 WH C24 27K ES	LED	23	120	SURFACE	Note #1
A2	BROWNLEE	2062 10 WH B12 27K ES	LED	12	120	SURFACE	Note #1
B	BROWNLEE	7162-GY-C17-35K-BLD ECW ES	LED	16	120	SURFACE	
B2	LIGHTOLIER	S10R8030K22W	LED	23.2	120	SURFACE	
C	LITHONIA	CDS L48 M/VOLT DM 35K 80CRI WH	LED	38	120	SURFACE	
C2	LITHONIA	LBL4W 6500LM 80CRI 35K MVOLT	LED	60.1	120	SURFACE	
CF	STAMO	GL-CL003	LED	60	120	CEILING	
D	BROWNLEE	5176-24-BN-H16-35K-ES	LED	16	120	WALL	
E	LITHONIA	ELM2 LED	LED	5	120	WALL/CEILING	Note #4
F	HEW	SLF 4 L52 827 HIA OCCSWNS FSP 211 L2	LED	58	120	WALL	Note #3
P	LITHONIA	MDPB BZ DMCN BZ	LED	9.5	120	PENDANT	
S	LEVITON	9864-LED	LED	8.7	120	SURFACE	
W	NICOR	OWCR4D 5000K	LED	22	120	WALL	Note #5
W2	BROWNLEE	BZ-C24-30K-BLD-ES	LED	23	120	WALL	
X2	LITHONIA	LHQM LED R HO	LED	5	120	WALL/CEILING	
X3	LITHONIA	LHQM LED R	LED	5	120	WALL/CEILING	
X2R	LITHONIA	ELA B TQWP L0309	LED	3	9.6	WALL/CEILING	

Notes:

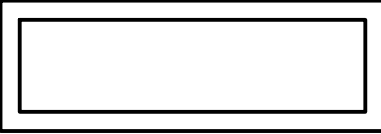
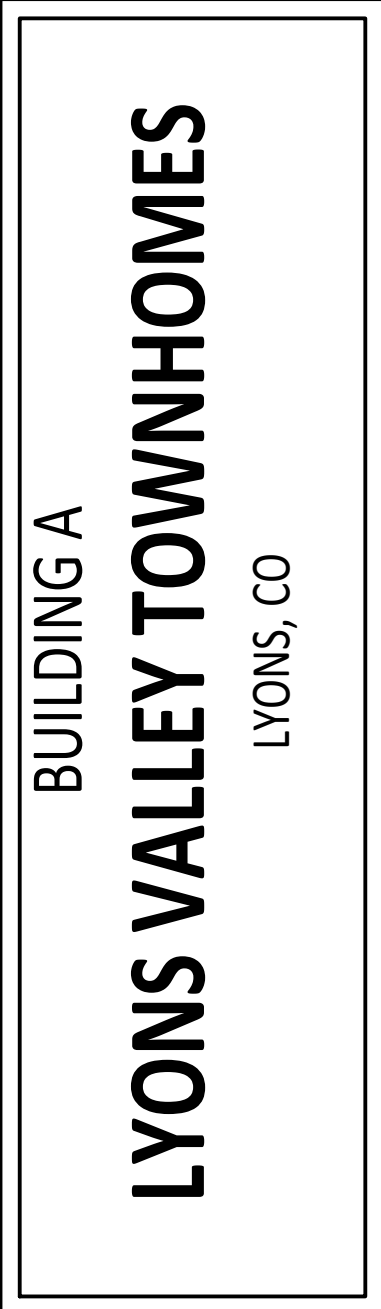
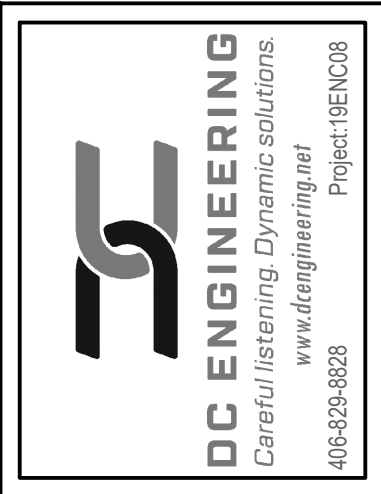
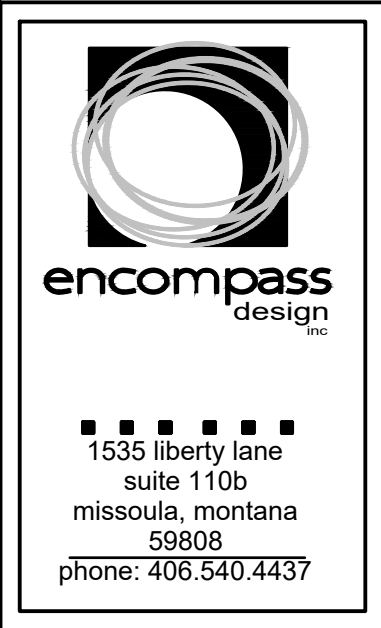
General Note: Contractor shall provide and coordinate all fixture mounting accessories.

1. Provide compatible dimmer switch.
2. Provide with bi level dimming. Program 100% occupied, after unoccupied time delay dim to 20% until occupied again.
3. Provide with high/low occ sensor. Provide one adjustment tool FSIR 100 to owner.
4. Provide an unswitched circuit for the battery charger.
5. Low dimming set to 10% after 10 minutes of unoccupied time.

DWELLING UNIT OPTIONAL CALCULATION NEC 220.82				
SQUARE FOOTAGE				
2BR	850	2		
GEN. LIGHTING		850	3	2550
SMALL APPL.				3000
RANGE				10000
WASHER				1500
DRYER				5000
WATER HEATER				4500
FURNACE				900
SUB TOTAL				27450
1ST 10KW				-10000
REM				17450
REM X .4		0.4		6980
1ST 10KW + .4 REM		10000		16980
ELECTRIC AC		1	3432	3432
TOTAL				20412
TOTAL AMP			85.05	85.05

MULTIFAMILY DWELLING UNIT - OPTIONAL CALCULATION			
SQUARE FOOTAGE			
BLDG. A SERVICE	4000	4	
GEN. LIGHTING		4000	3 12000
SMALL APPL.		4	3000 12000
RANGE		4	10000 40000
FURNACE		4	900 3600
WASHER		4	1500 6000
DRYER		4	5000 20000
CU		4	3432 13728
DISHWASHER		4	1500 6000
WATER HEATER		4	4500 18000
TOTAL			131328
DEMAND FACTOR	TABLE 220.84		45%
SUBTOTAL VA			59097.6
HOUSE PANEL			12378
TOTAL VA			71476
SERVICE	240 1PH		
TOTAL AMP		297.815	297.82

OCCUPANCY SENSOR SCHEDULE					
	TYPE	MANUFACTURER	MODEL	LOCATION	NOTES
1	OS-1	WA TT STOPPER	PW-100	SWITCH	PIR
2	OS-2	WA TT STOPPER	PW-200	SWITCH	PIR
3	OS-3	WA TT STOPPER	DW-100	SWITCH	DUAL TECHNOLOGY
4	OS-4	WA TT STOPPER	DW-200	SWITCH	DUAL TECHNOLOGY
5	OS-5	WA TT STOPPER	UT-355-2	CEILING	LINE VOLTAGE
6	OS-6	WA TT STOPPER	DT-200	WALL	NOTE #1
7	OS-7	WA TT STOPPER	WT-605	CEILING	NOTE #1
8	OS-8	WA TT STOPPER	WT-1105	CEILING	NOTE #1
9	OS-9	WA TT STOPPER	WT-2205	CEILING	NOTE #1
10	OS-10	WA TT STOPPER	WT-2255	CEILING	NOTE #1
11	OSD	WA TT STOPPER	PW-311	WALL	PROVIDE COMPATIBLE SWITCH
12	PP-1	WA TT STOPPER	BZ-50		POWER PACK
13	RP-1	WA TT STOPPER	B347D-P		RELAY PACK
Notes:					
1. Provide power pack/ relay pack as needed.					
2. Within the 1 year warranty period provide, at no additional charge, provide 1 site visit to perform sensor adjustments at the owner's request.					
3. Wattstopper products are specified because of specific capabilities. Substitutions are required to have all of the characteristics of the wattstopper product and shall be prior approved.					
4. Sensor locations shown on the plans are diagrammatic intended for general location only. The contractor is responsible for locating the occupancy sensors according to manufacturers installation instructions taking into account the nature of the area that might cause false triggers. Contractor shall relocate occupancy sensor if necessary to operate within manufacturers requirements.					

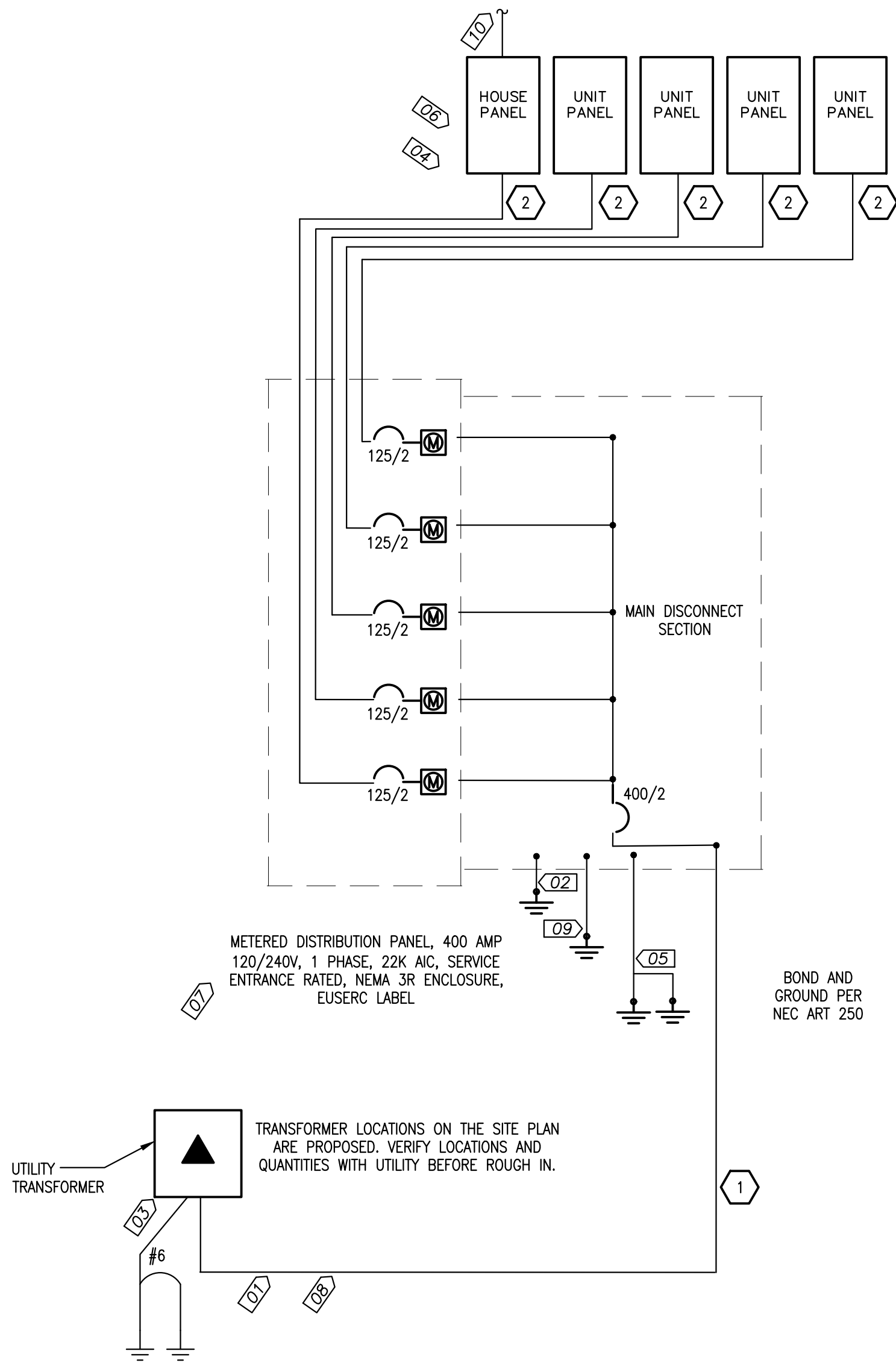


BID SET
03/06/2020
=====
ELECTRICAL PANEL SCHEDULES

EDI Job #: 18.121

E3.0

NOT FOR CONSTRUCTION



1a ONE LINE DIAGRAM - METER BANK
SCALE: NTS

PHASE/NEUTRAL	GROUND	VOLTAGE DROP (ALUM. CONDUCTORS)
#2/0	#2	TO 93'
#3/0	#1	TO 115'
#4/0	#1	TO 149'

1b VOLTAGE DROP CHART
SCALE: NTS

1c CONDUIT AND WIRE SCHEDULE
SCALE: NTS

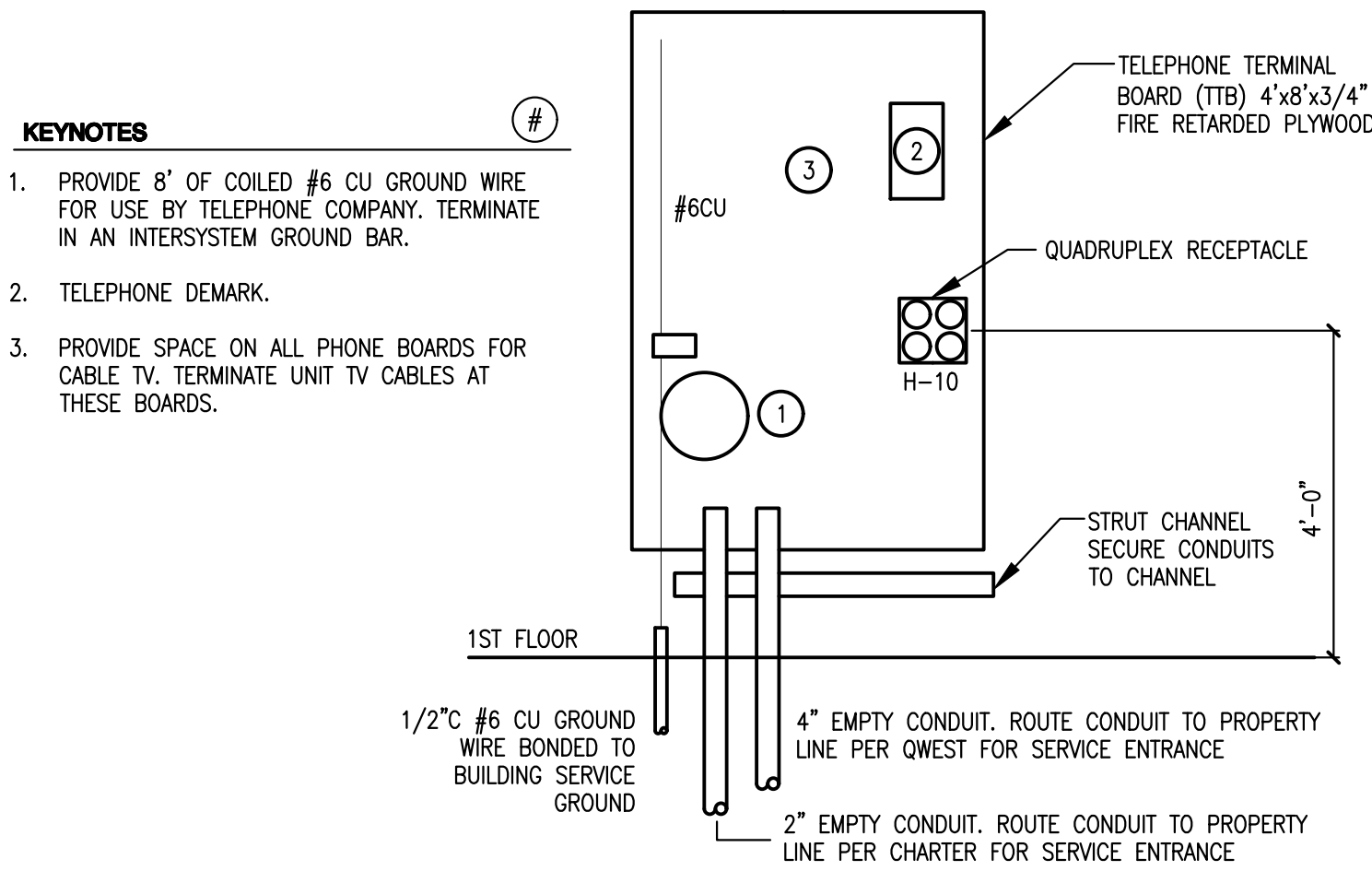
CONDUIT AND WIRE SCHEDULE					
FEEDER #	CONDUIT	PHASE	NEUTRAL	GROUND	NOTES
1	(2) 2-1/2"	#250	#250		1
2	1 1/2"	#1/0	#1/0	#4	1
NOTES:					
1. ALUMINUM CONDUCTORS					

ELECTRICAL RISER DIAGRAM KEYED NOTES:

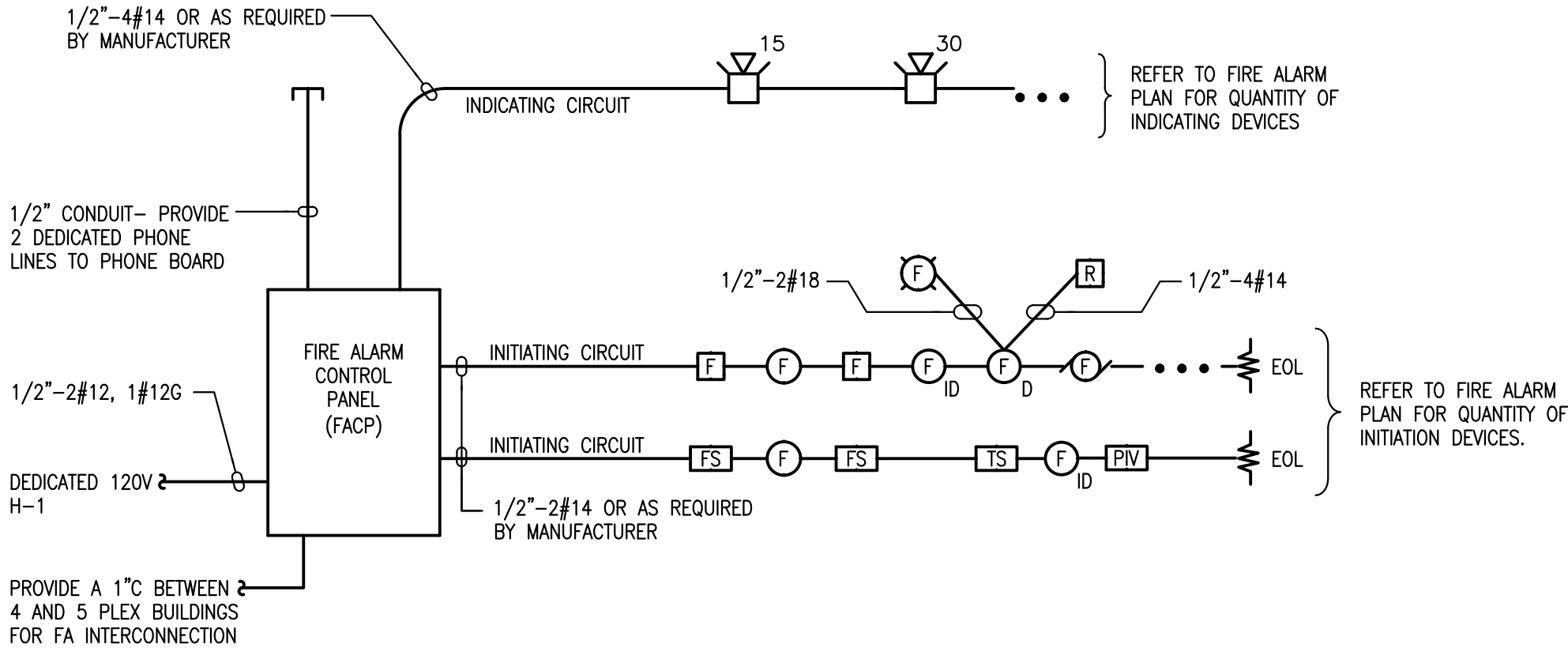
- SECONDARY WIRE AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH UTILITY.
- PROVIDE AND INSTALL #4 AWG COPPER GROUND TO CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC 250.52.3 AND 4/0 CU TO COLD WATER PIPE IN ACCORDANCE WITH NEC 250.53.D.
- TRANSFORMER PAD BY THE ELECTRICAL CONTRACTOR COORDINATE W/ UTILITY. GROUND AND BOND ACCORDING TO NEC 250.
- ALL AL CONDUCTORS U.N.O. NO ALUMINUM CONDUCTORS SMALLER THAN #2/0 AWG SHALL BE USED FOR WIRING OF SERVICES. ALUMINUM SHALL NOT BE ALLOWED FOR THE HOUSE PANEL.
- PROVIDE AND INSTALL (2) 5/8"X 8' CU CLAD GROUND RODS INSTALLED 6' APART CONNECTED W/ A #6 CU.
- TYPICAL UNIT FEEDER. NOTE: NEUTRAL REDUCTION NOT ALLOWED NEC ART 220.61.C. 2" 3-#2/0, 1-#4 GND AL TYPE SER CABLE ACCEPTABLE WHERE APPROVED BY THE NEC AND AHJ. SEE VOLTAGE DROP TABLE 1a/Es.O.
- FAULT CURRENT RATING: FULLY RATE SYSTEM OR PROVIDE SERIES RATING WITH DOCUMENTATION. CONFIRM AVAILABLE FAULT CURRENT WITH UTILITY.
- CONTRACTOR TO PROVIDE ALL TRENCHING, COORDINATE WITH UTILITY FOR REQUIREMENTS.
- SERVICE BOND #2 CU.
- ROUTE CAPPED 2" CONDUIT FROM SERVICE LOCATION TO UNDER ROOFTOP FOR FUTURE SOLAR PROVISION. CONSULT WITH ARCHITECT FOR CONDUIT STUB LOCATION.

GENERAL NOTES

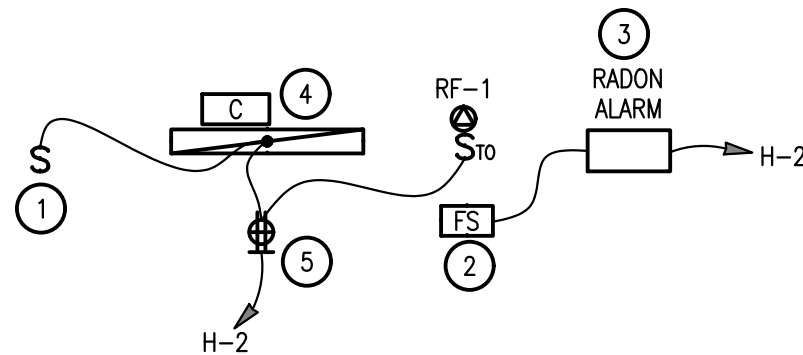
- COORDINATE ALL WORK AND EQUIPMENT WITH UTILITY. INSTALL EQUIPMENT TO UTILITY SPECIFICATIONS. OBTAIN GEAR APPROVAL BEFORE ORDERING ANY EQUIPMENT.
- FULLY RATE OR FACTORY SERIES RATE.
- ALUMINUM CAN BE SUBSTITUTED PROVIDED WIRE AND CONDUIT SIZE IS ADJUSTED AND VOLTAGE DROP IS CONSIDERED.
- VERIFY AVAILABLE FAULT CURRENT WITH UTILITY. GET UTILITY APPROVAL ON ELECTRICAL SERVICE GEAR BEFORE ORDERING.



2 TELEPHONE/CABLE TV TERMINAL BOARD
SCALE: NTS



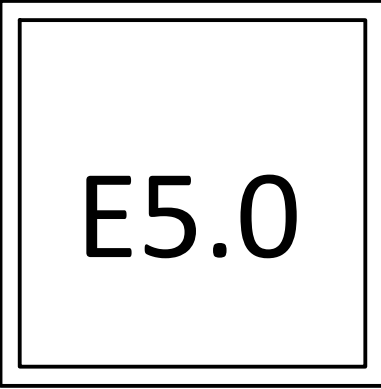
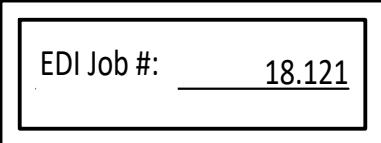
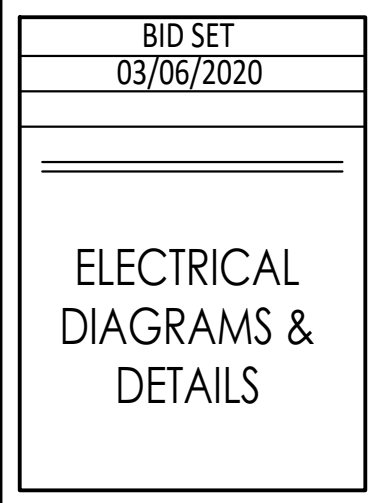
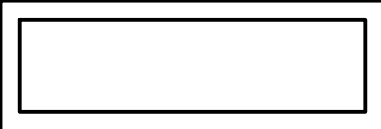
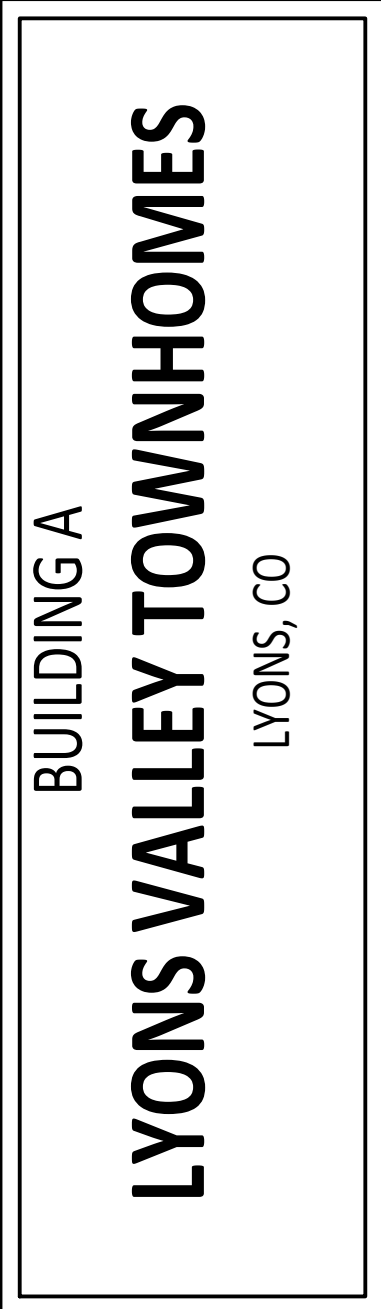
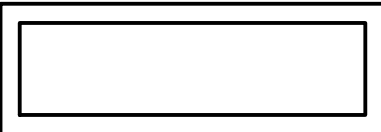
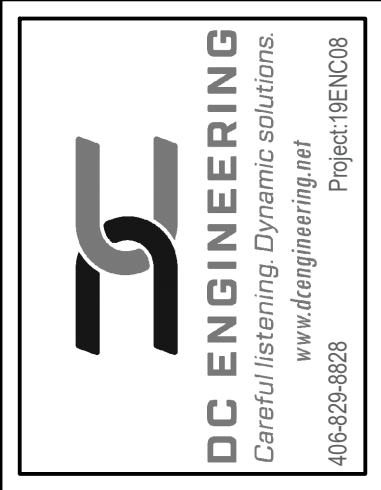
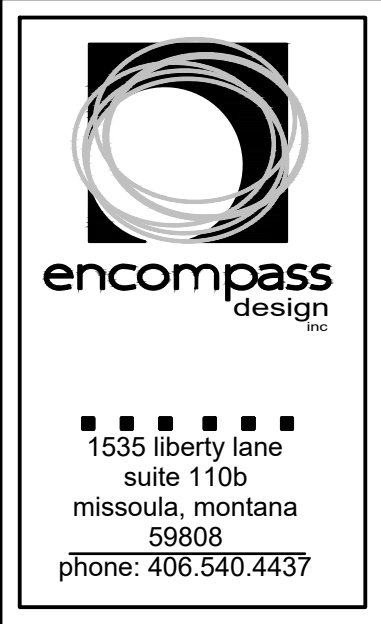
3 FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NTS



KEYNOTES

- LOCATE LIGHT SWITCH ADJACENT TO ATTIC SPACE ACCESS. COORDINATE WITH ARCHITECT.
- FLOW SWITCH ON RADON FAN.
- RADON ALARM PROVISION LOCATION. LOCATE IN MECHANICAL ROOM.
- LIGHT IN ATTIC SPACE NEAR RADON FAN LOCATION.
- MOUNT RECEPTACLE IN ATTIC SPACE WITHIN 10' OF PROPOSED RADON FAN LOCATION. COORDINATE WITH ARCHITECT.

4 RADON FAN DETAIL
SCALE: NTS



NOT FOR CONSTRUCTION

PANELBOARD SCHEDULE													
PANEL: A (MULTI-FAM UNITS)			PROJECT: Lyons										
VOLTAGE: 240/120V		PHASE 1		WIRE 3		AMPERE RATING: 125		SC RATING: 10,000		MAIN: MLO			
ENTRY: TOP/BOTTOM		MOUNTING: SURFACE											
LOADS:		Amps	VA	LOAD TYPES:		REMARKS: LOAD CENTER							
PHASE A:		0	0	1 = LIGHTING		PROVIDE AFCI/GFCI PROTECTION WHERE REQUIRED BY CODE EVEN IF NOT SHOWN ON PLANS							
PHASE B:		0	0	2 = RECEPTACLES		* AFCI CIRCUIT BREAKER							
				3 = MISC		** AFCI/GFCI COMBO BREAKER							
TOTAL:		0	0	4 = MOTOR		*** PROVIDE PERMANENTLY MOUNTED CIRCUIT BREAKER LOCK-OFF DEVICE							
LOAD (VA)	LOAD SERVED			LOAD TYPE	AMPS/POLES	CKT NO	PHASE	CKT NO	AMPS/POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)	
	* RECEPT LIVING ROOM			2	20	1	1	A	2	20	1	2	* RECEPT, REFR
	RECEPT, BATHROOM			2	20	1	3	B	4	20	1	2	** RECEPT, KITCHEN
	RANGE			2	50	2	5	A	6	20	1	2	** RECEPT, KITCHEN
	RANGE			2	*	*	7	B	8	20	1	2	** DISHWASHER
	** RECEPT, HOOD MICRO			2	20	1	9	A	10	20	1	1	* LIGHTING/SMOKE DETECTORS
	* RECEPT, BED ROOM 1			2	20	1	11	B	12	20	1		SPARE
	* RECEPT, BED ROOM 2			2	20	1	13	A	14	20	1	2	* WASHER
	CARPORT RECEPT			2	20	1	15	B	16	30	2	2	DRYER
	GARBAGE DISPOSAL			2	20	1	17	A	18	*	*	2	DRYER
	SPARE			20	1	19	B	20	30	2	3	***WATER HEATER	
	OU			4	25	2	21	A	22	*	*	3	***WATER HEATER
	OU			4	*	*	23	B	24	15	1	4	FURNACE

PANELBOARD SCHEDULE														
PANEL: H (Buildings A&B)			PROJECT: Lyons											
VOLTAGE: 240/120V			PHASE: 1		WIRE: 3		AMPERE RATING: 225			SC RATING: 22,000		MAIN: MLO		
ENTRY: TOP/BOTTOM			MOUNTING: SURFACE											
LOADS:		Amps	VA	LOAD TYPES:			REMARKS:							
PHASE A:		75	8983	1 = LIGHTING			PANELBOARD, COPPER BUSES, BOLT ON BREAKERS, DOOR-IN-DOOR							
PHASE B:		81	9673	2 = RECEPTABLES			* GFCI CIRCUIT BREAKER							
				3 = MISC			**ONLY FOR BUILDING A							
TOTAL:		78	18656	4 = MOTOR										
LOAD (VA)	LOAD SERVED			LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED		LOAD (VA)	
200	FACP			3	20	1	A	2	20	1	3	RADON FAN	500	
875	EBB-1,2 CORRIDOR			3	20	2	3	B	4	20	1	2	OUTDOOR RECEPTABLES	1080
875	EBB-1,2 CORRIDOR			3	*	*	5	A	6	20	1	2	MECHANICAL ROOM RECEPTS.	360
500	BWH-1			3	20	2	7	B	8	20	1	2	ERV-1	42
500	BWH-1			3	*	*	9	A	10	20	1	2	TTB RECEPT.	360
384	BUILDING COMMON LIGHTING			1	20	1	11	B	12	20	*	2	**ROAD LIGHTING BUILDINGS A THRU E	106
180	CORRIDOR RECEPTS.			1	20	1	13	A	14	*	*	2	**ROAD LIGHTING BUILDINGS A THRU E	106
200	EF-2			4	20	1	15	B	16	20	*	2	**ROAD LIGHTING FOR CARTER DR.	332
							17	A	18	*	*	2	**ROAD LIGHTING FOR CARTER DR.	332
1140	**DSO-1/DSH-1			3	15	2	19	B	20	20	1	2	**OFFICE RECEPTS.	720
1140	**DSO-1/DSH-1			3	*	*	21	A	22					
44	**OFFICE EF-2s			3	20	1	23	B	24					
180	**RESTROOM RECEPTS.			2	20	1	25	A	26					
3250	**OFFICE WH-2			3	35	2	27	B	28					
3250	**OFFICE WH-2			3	*	*	29	A	30					
1000	**EBB-2 OFFICE			3	20	2	31	B	32					
1000	**EBB-2 OFFICE			3	*	*	33	A	34					
							35	B	36					
							37	A	38					
							39	B	40				FUTURE PV BREAKER SPACE	
							41	A	42				FUTURE PV BREAKER SPACE	

LUMINAIRE SCHEDULE - LYONS VALLEY							3/9/2020
LUMINAIRE	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	VOLTAGE	MOUNTING	COMMENTS
A	BROWNLEE	2062 16 WH C24 27K ES	LED	23	120	SURFACE	Note #1
A2	BROWNLEE	2062 10 WH B12 27K ES	LED	12	120	SURFACE	Note #1
B	BROWNLEE	7162-GY-C17-35K-BLD ECW ES	LED	16	120	SURFACE	
B2	LIGHTOLIER	S10R8030K22W	LED	23.2	120	SURFACE	
C	LITHONIA	CDS L48 MVOLT DM 35K 80CRI WH	LED	38	120	SURFACE	
C2	LITHONIA	LBL4W 6500LM 80CRI 35K MVOLT	LED	50.1	120	SURFACE	
CF	STAMO	GL-CL003	LED	60	120	CEILING	
D	BROWNLEE	5176-24-BNH116-35K-ES	LED	16	120	WALL	
E	LITHONIA	ELM2 LED	LED	5	120	WALL/CEILING	Note #4
F	HEW	SLF 4 L52 827 HIA OCCSWS FSP 211 L2	LED	58	120	WALL	Note #3
P	LITHONIA	MDPB BZ DMCN BZ	LED	9.5	120	PENDANT	
S	LEVITON	9864-LED	LED	8.7	120	SURFACE	
W	NICOR	OWORAD 5000K	LED	22	120	WALL	Note #5
W2	BROWNLEE	BZ-C24-30K-BLD-ES	LED	23	120	WALL	
X2	LITHONIA	LHQM LED R HO	LED	5	120	WALL/CEILING	
X3	LITHONIA	LHQM LED R	LED	5	120	WALL/CEILING	
X2R	LITHONIA	ELA B TQWP L0309	LED	3	9.6	WALL/CEILING	

Notes:

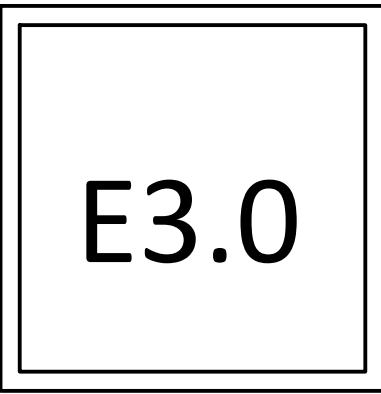
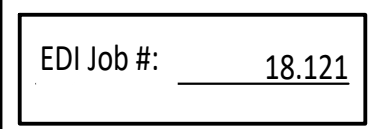
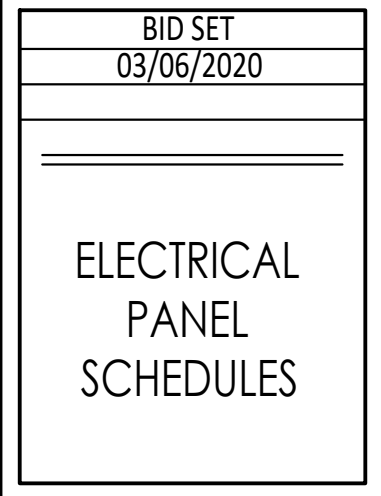
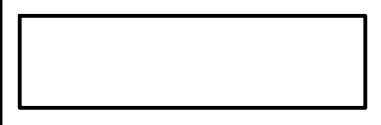
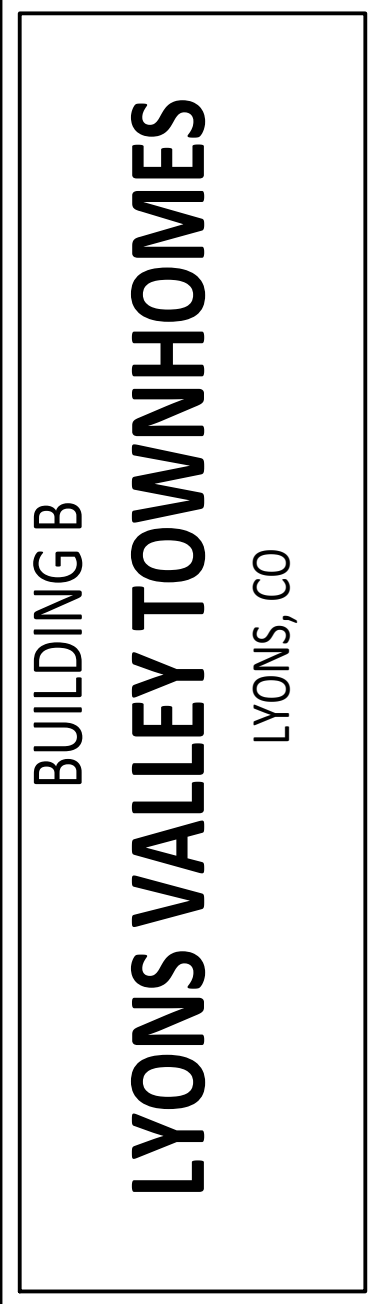
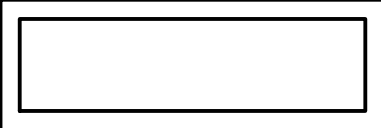
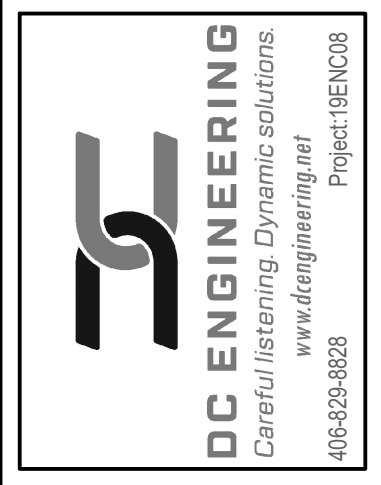
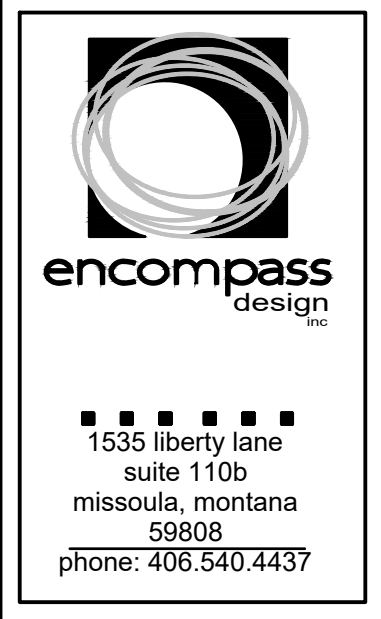
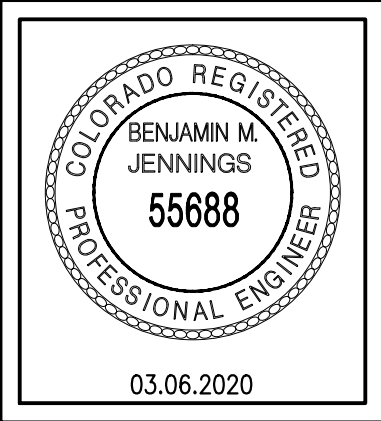
General Note: Contractor shall provide and coordinate all fixture mounting accessories.

1. Provide compatible dimmer switch.
2. Provide with bi level dimming. Program 100% occupied, after unoccupied time delay dim to 20% until occupied again.
3. Provide with high/low occ sensor. Provide one adjustment tool FSIR 100 to owner.
4. Provide an unswitched circuit for the battery charger.
5. Low dimming set to 10% after 10 minutes of unoccupied time.

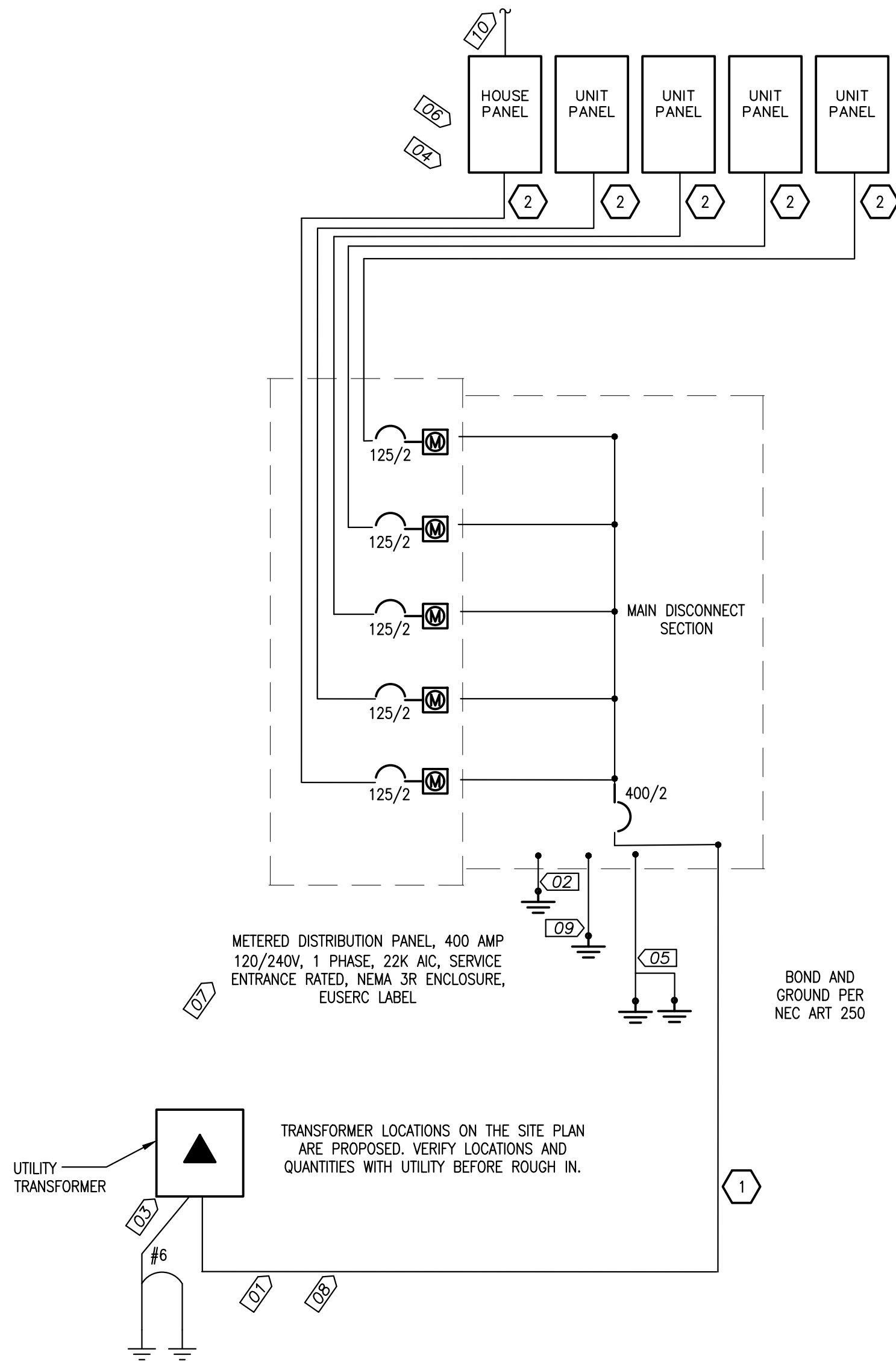
DWELLING UNIT OPTIONAL CALCULATION NEC 220.82				
SQUARE FOOTAGE				
2BR	850	2		
GEN. LIGHTING		850	3	2550
SMALL APPL.				3000
RANGE				10000
WASHER				1500
DRYER				5000
WATER HEATER				4500
FURNACE				900
SUB TOTAL				27450
1ST 10KW				-10000
REM				17450
REM X .4		0.4		6980
1ST 10KW + .4 REM		10000		16980
ELECTRIC AC		1	3432	3432
TOTAL				20412
TOTAL AMP		85.05		85.05

MULTIFAMILY DWELLING UNIT - OPTIONAL CALCULATION				
SQUARE FOOTAGE				
BLDG. B SERVICE	4000	4		
GEN. LIGHTING	4000	3	12000	
SMALL APPL.	4	3000	12000	
RANGE	4	10000	40000	
FURNACE	4	900	3600	
WASHER	4	1500	6000	
DRYER	4	5000	20000	
CU	4	3432	13728	
DISHWASHER	4	1500	6000	
WATER HEATER	4	4500	18000	
TOTAL			131328	
DEMAND FACTOR	TABLE 220.84		45%	
SUBTOTAL VA			59097.6	
HOUSE PANEL			6436	
TOTAL VA			65534	
SERVICE	240 1PH			
TOTAL AMP		273.0567	273.06	

OCCUPANCY SENSOR SCHEDULE					
	TYPE	MANUFACTURER	MODEL	LOCATION	NOTES
1	OS-1	WATT STOPPER	PW-100	SWITCH	PIR
2	OS-2	WATT STOPPER	PW-200	SWITCH	PIR
3	OS-3	WATT STOPPER	DW-100	SWITCH	DUAL TECHNOLOGY
4	OS-4	WATT STOPPER	DW-200	SWITCH	DUAL TECHNOLOGY
5	OS-5	WATT STOPPER	UT-355-2	CEILING	LINE VOLTAGE
6	OS-6	WATT STOPPER	DT-200	WALL	NOTE#1
7	OS-7	WATT STOPPER	WT-605	CEILING	NOTE#1
8	OS-8	WATT STOPPER	WT-1105	CEILING	NOTE#1
9	OS-9	WATT STOPPER	WT-2205	CEILING	NOTE#1
10	OS-10	WATT STOPPER	WT-2255	CEILING	NOTE#1
11	OSD	WATT STOPPER	PW-311	WALL	PROVIDE COMPATIBLE SWITCH
12	RP-1	WATT STOPPER	BZ-50		POWER PACK
13	RP-1	WATT STOPPER	B347D-P		RELAY PACK
Notes:					
1. Provide power pack/ relay pack as needed.					
2. Within the 1 year warranty period provide, at no additional charge, provide 1 site visit to perform sensor adjustments at the owner's request.					
3. Wattstopper products are specified because of specific capabilities. Substitutions are required to have all of the characteristics of the wattstopper product and shall be prior approved.					
4. Sensor locations shown on the plans are diagrammatic intended for general location only. The contractor is responsible for locating the occupancy sensors according to manufacturers installation instructions taking into account the nature of the area that might cause false triggers. Contractor shall relocate occupancy sensor if necessary to operate within manufacturers requirements.					



NOT FOR CONSTRUCTION



1a ONE LINE DIAGRAM - METER BANK
SCALE: NTS

PHASE/NEUTRAL	GROUND	VOLTAGE DROP (ALUM CONDUCTORS)
#2/0	#2	TO 93'
#3/0	#1	TO 115'
#4/0	#1	TO 149'

1b VOLTAGE DROP CHART
SCALE: NTS

1c CONDUIT AND WIRE SCHEDULE
SCALE: NTS

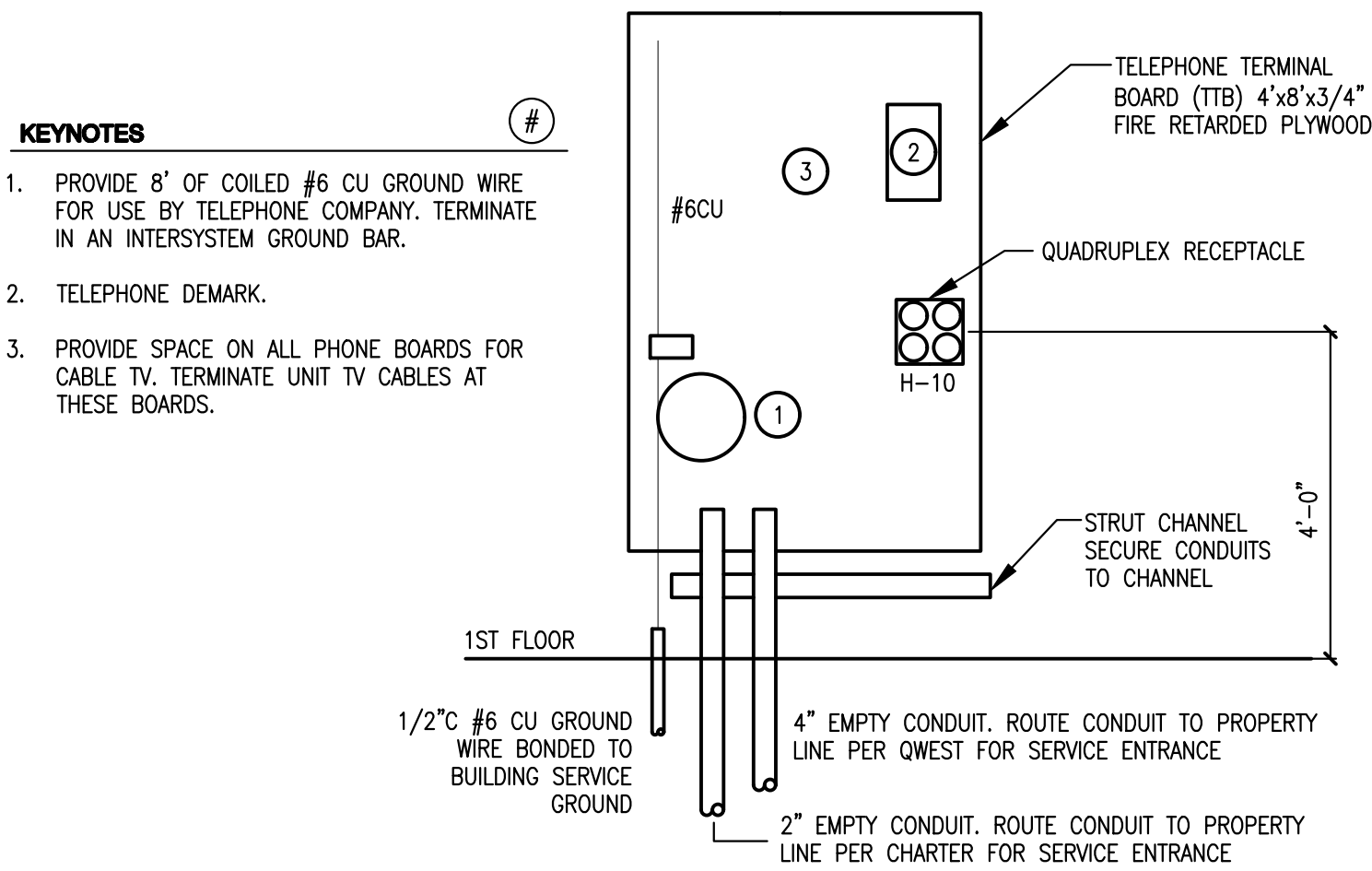
CONDUIT AND WIRE SCHEDULE					
FEEDER #	CONDUIT	PHASE	NEUTRAL	GROUND	NOTES
1	(2) 2-1/2"	#250	#250		1
2	1 1/2"	#1/0	#1/0	#4	1
NOTES:					
1. ALUMINUM CONDUCTORS					

ELECTRICAL RISER DIAGRAM KEYED NOTES:

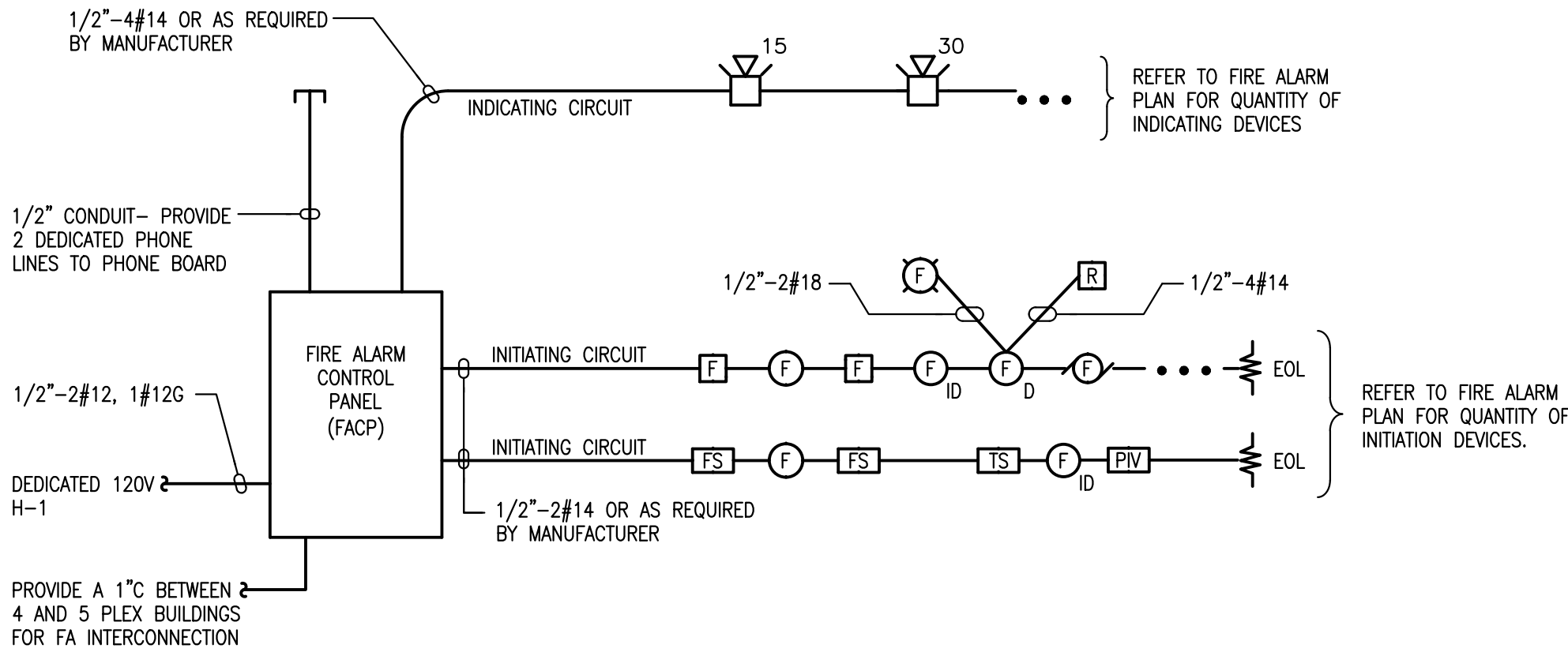
- 01 SECONDARY WIRE AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH UTILITY.
- 02 PROVIDE AND INSTALL #4 AWG COPPER GROUND TO CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC 250.52.3 AND 4/0 CU TO COLD WATER PIPE IN ACCORDANCE WITH NEC 250.53.D.
- 03 TRANSFORMER PAD BY THE ELECTRICAL CONTRACTOR COORDINATE W/ UTILITY. GROUND AND BOND ACCORDING TO NEC 250.
- 04 ALL AL CONDUCTORS U.N.O. NO ALUMINUM CONDUCTORS SMALLER THAN #2/0 AWG SHALL BE USED FOR WIRING OF SERVICES. ALUMINUM SHALL NOT BE ALLOWED FOR THE HOUSE PANEL.
- 05 PROVIDE AND INSTALL (2) 5/8"x 8' CU CLAD GROUND RODS INSTALLED 6' APART CONNECTED W/ A #6 CU.
- 06 TYPICAL UNIT FEEDER. NOTE: NEUTRAL REDUCTION NOT ALLOWED NEC ART 220.61.C. 2'C, 3-#2/0, 1-#4 GND AL. TYPE SER CABLE ACCEPTABLE WHERE APPROVED BY THE NEC AND AHJ. SEE VOLTAGE DROP TABLE 1a/ES.O.
- 07 FAULT CURRENT RATING: FULLY RATE SYSTEM OR PROVIDE SERIES RATING WITH DOCUMENTATION. CONFIRM AVAILABLE FAULT CURRENT WITH UTILITY.
- 08 CONTRACTOR TO PROVIDE ALL TRENCHING, COORDINATE WITH UTILITY FOR REQUIREMENTS.
- 09 SERVICE BOND #2 CU.
- 10 ROUTE CAPPED 2" CONDUIT FROM SERVICE LOCATION TO UNDER ROOFTOP FOR FUTURE SOLAR PROVISION. CONSULT WITH ARCHITECT FOR CONDUIT STUB LOCATION.

GENERAL NOTES

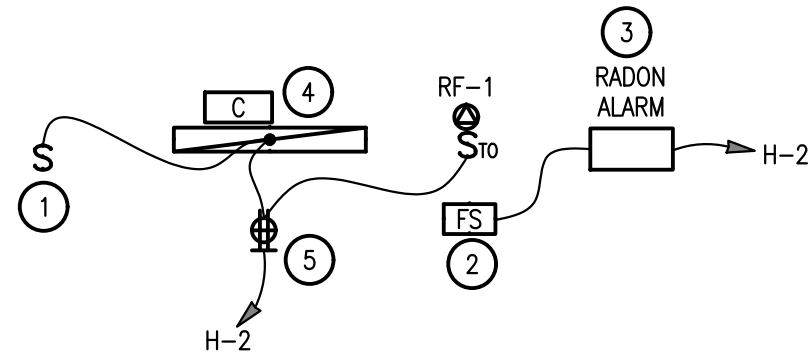
- A. COORDINATE ALL WORK AND EQUIPMENT WITH UTILITY. INSTALL EQUIPMENT TO UTILITY SPECIFICATIONS. OBTAIN GEAR APPROVAL BEFORE ORDERING ANY EQUIPMENT.
- B. FULLY RATE OR FACTORY SERIES RATE.
- C. ALUMINUM CAN BE SUBSTITUTED PROVIDED WIRE AND CONDUIT SIZE IS ADJUSTED AND VOLTAGE DROP IS CONSIDERED.
- D. VERIFY AVAILABLE FAULT CURRENT WITH UTILITY. GET UTILITY APPROVAL ON ELECTRICAL SERVICE GEAR BEFORE ORDERING.



2 TELEPHONE/CABLE TV TERMINAL BOARD
SCALE: NTS



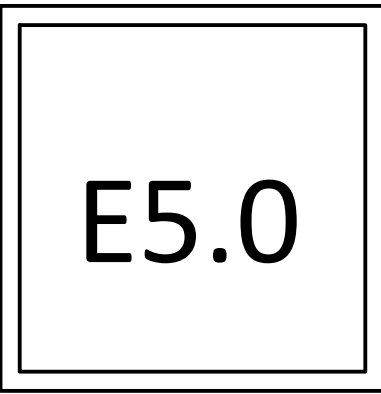
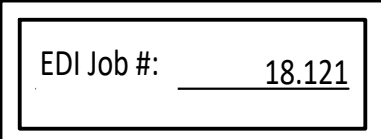
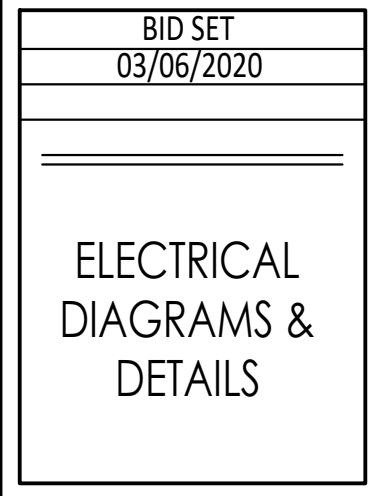
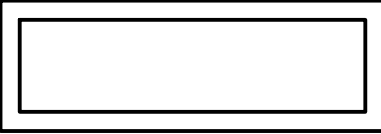
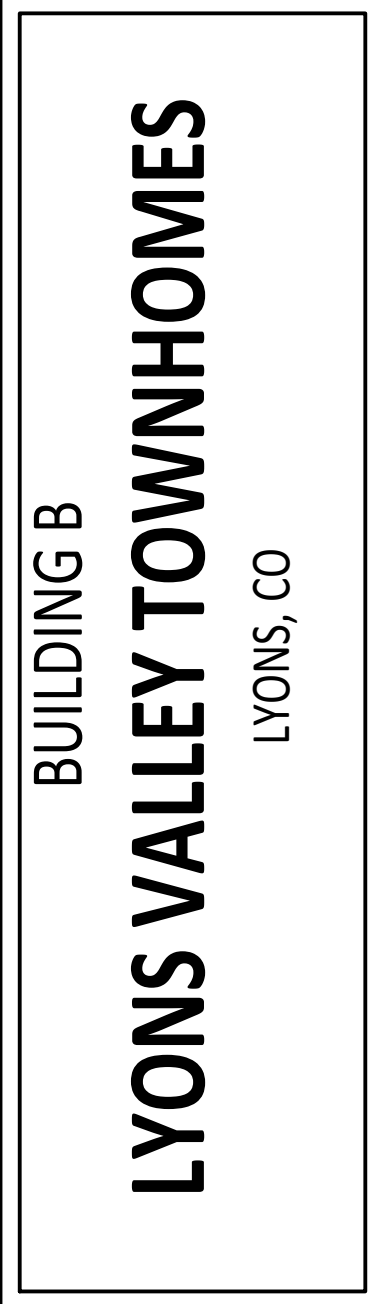
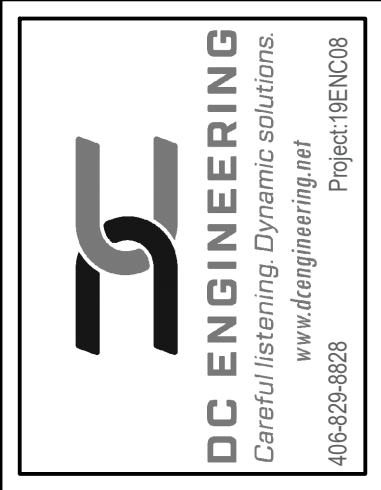
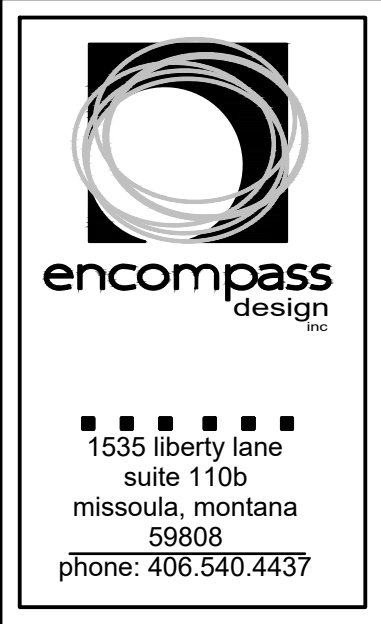
3 FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NTS



KEYNOTES

1. LOCATE LIGHT SWITCH ADJACENT TO ATTIC SPACE ACCESS. COORDINATE WITH ARCHITECT.
2. FLOW SWITCH ON RADON FAN.
3. RADON ALARM PROVISION LOCATION. LOCATE IN MECHANICAL ROOM.
4. LIGHT IN ATTIC SPACE NEAR RADON FAN LOCATION.
5. MOUNT RECEPTACLE IN ATTIC SPACE WITHIN 10' OF PROPOSED RADON FAN LOCATION. COORDINATE WITH ARCHITECT.

4 RADON FAN DETAIL
SCALE: NTS



NOT FOR CONSTRUCTION

PANELBOARD SCHEDULE																
PANEL: H (Building C)			PROJECT: Lyons													
VOLTAGE: 240/120V		PHASE: 1		WIRE: 3		AMPERE RATING: 225			SC RATING: 22,000			MAIN: MLO				
ENTRY: TOP/BOTTOM			MOUNTING: SURFACE													
LOADS:			Amps		VA		LOAD TYPES:			REMARKS:						
PHASE A:			40		4771		1 = LIGHTING			PANELBOARD, COPPER BUSSES, BOLT ON BREAKERS, DOOR-IN-DOOR						
PHASE B:			38		4609		2 = RECEPTACLES			* GFCI CIRCUIT BREAKER						
							3 = MSC									
TOTAL:			39		9380		4 = MOTOR									
LOAD (VA)	LOAD SERVED					LOAD TYPE	AMPS/POLES	CKT NO	PHASE	CKT NO	AMPS/POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)		
200	FACP					3	20	1	1	A	2	20	1	3	RADON FAN	500
200	EF-2 MECHANICAL ROOM					4	20	1	3	B	4	20	1	2	OUTDOOR RECEPTACLES	900
500	EWH-1					3	20	2	5	A	6	20	1	2	MECHANICAL RECEPTACLES	360
500	EWH-1					3	*	*	7	B	8	20	1		SPARE	
21	ERV-1					3	15	1	9	A	10	20	1	2	TTB RECEPT.	360
384	BUILDING COMMON LIGHTING					1	20	1	11	B	12					
1080	CORRIDOR RECEPTS					1	20	1	13	A	14					
1750	EBB-1,2 SECOND/THIRD FLOOR					3	20	2	15	B	16					
1750	EBB-1,2 SECOND/THIRD FLOOR					3	*	*	17	A	18					
875	EBB-1,2 FIRST FLOOR					3	20	2	19	B	20					
875	EBB-1,2 FIRST FLOOR					3	*	*	21	A	22					
										23	B	24				
										25	A	26				
										27	B	28				
										29	A	30				
										31	B	32				
										33	A	34				
										35	B	36				
										37	A	38				
										39	B	40			FUTURE PV BREAKER SPACE	
										41	A	42			FUTURE PV BREAKER SPACE	

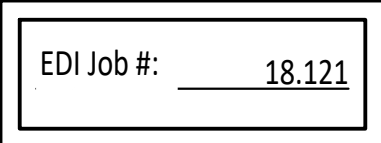
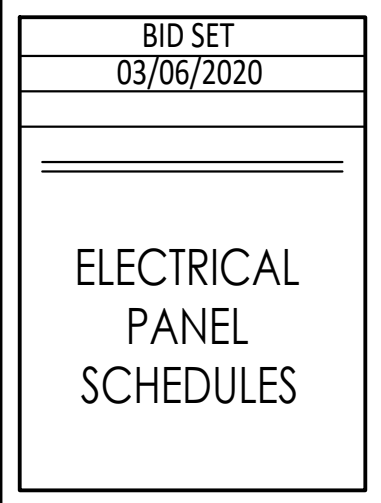
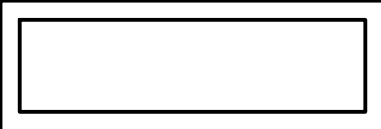
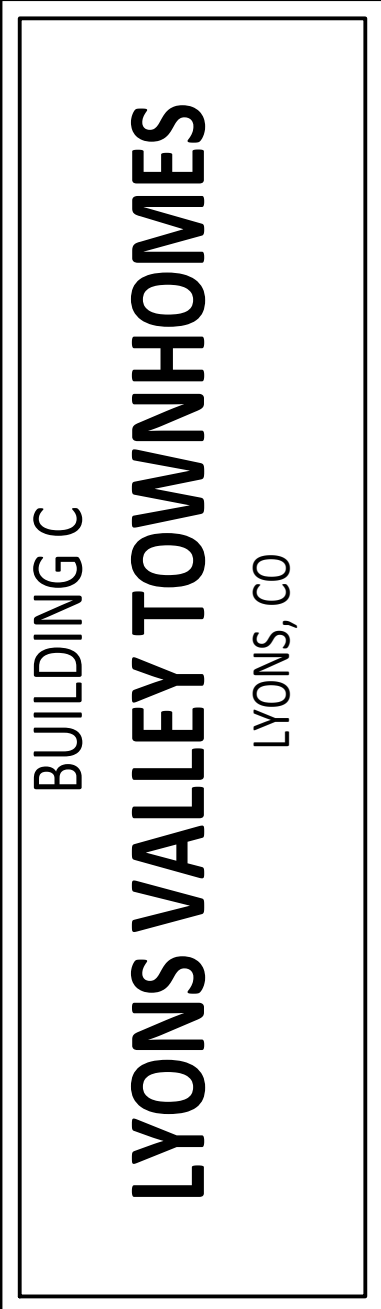
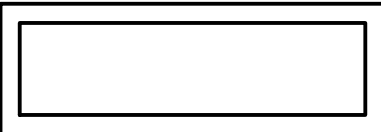
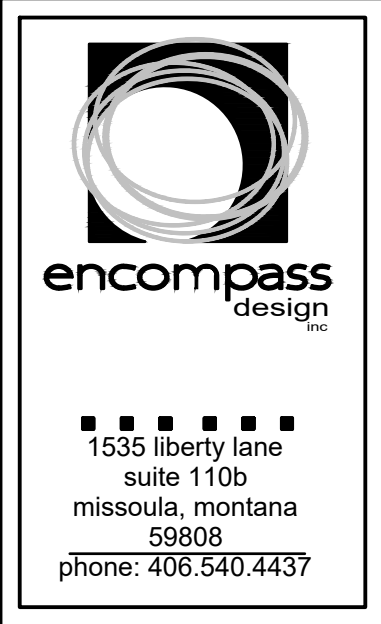
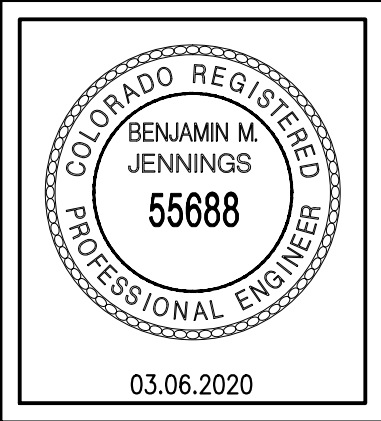
PANELBOARD SCHEDULE														
PANEL: A (MULTI-FAM UNITS)			PROJECT: Lyons											
VOLTAGE: 240/120V		PHASE 1		WIRE 3		AMPERE RATING: 125			SC RATING: 10,000		MAIN: MLO			
ENTRY: TOP/BOTTOM				MOUNTING: SURFACE										
LOADS:				LOAD TYPES:			REMARKS: LOAD CENTER							
Amps		VA		1 = LIGHTING			PROVIDE AFCI/GFCI PROTECTION WHERE REQUIRED BY CODE EVEN IF NOT SHOWN ON PLANS							
PHASE A: 0		0		2 = RECEPTACLES			* AFCI CIRCUIT BREAKER							
PHASE B: 0		0		3 = MSC			** AFCI/GFCI COMBO BREAKER							
TOTAL: 0		0		4 = MOTOR			*** PROVIDE PERMANENTLY MOUNTED CIRCUIT BREAKER LOCK-OFF DEVICE							
LOAD (VA)	LOAD SERVED				LOAD TYPE	AMPS/POLES	CKT NO	PHASE	CKT NO	AMPS/POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)	
	* RECEPT LIVING ROOM				2	20	1	1	A	2	20	1	2	* RECEPT, REFER
	RECEPT, BATHROOM				2	20	1	3	B	4	20	1	2	** RECEPT, KITCHEN
	RANGE				2	50	2	5	A	6	20	1	2	** RECEPT, KITCHEN
	RANGE				2	*	*	7	B	8	20	1	2	** DISHWASHER
	** RECEPT, HOOD MICRO				2	20	1	9	A	10	20	1	1	* LIGHTING/SMOKE DETECTORS
	* RECEPT, BED ROOM 1				2	20	1	11	B	12	20	1		SPARE
	* RECEPT, BED ROOM 2				2	20	1	13	A	14	20	1	2	* WASHER
	CARPORT RECEPT				2	20	1	15	B	16	30	2	2	DRYER
	GARBARAGE DISPOSAL				2	20	1	17	A	18	*	*	2	DRYER
	SPARE				2	20	1	19	B	20	30	2	3	***WATER HEATER
	CU				4	25	2	21	A	22	*	*	3	***WATER HEATER
	CU				4	*	*	23	B	24	15	1	4	FURNACE

LUMINAIRE SCHEDULE - LYONS VALLEY							
							3/9/2020
LUMINAIRE	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	VOLTAGE	MOUNTING	COMMENTS
A	BROWNLEE	2062 16 WH C24 27K ES	LED	23	120	SURFACE	Note #1
A2	BROWNLEE	2062 10 WH B12 27K ES	LED	12	120	SURFACE	Note #1
B	BROWNLEE	7162-GY-C17-35K-BLD ECW ES	LED	16	120	SURFACE	
B2	LIGHTOLIER	S10R8030K22W	LED	23.2	120	SURFACE	
C	LITHONIA	CDS L48 MVOLT DM 35K 80CRI WH	LED	38	120	SURFACE	
C2	LITHONIA	LBL4W 6500LM 80CRI 35K MVOLT	LED	50.1	120	SURFACE	
CF	STAMO	GL-CL003	LED	60	120	CEILING	
D	BROWNLEE	5176-24-BN-H16-35K-ES	LED	16	120	WALL	
E	LITHONIA	ELM2 LED	LED	5	120	WALL/CEILING	Note #4
F	HEW	SLF 4 L52 827 HIA OCCSWS FSP 211 L2	LED	58	120	WALL	Note #3
P	LITHONIA	MDPB BZ DMCN BZ	LED	9.5	120	PENDANT	
S	LEVITON	9864-LED	LED	8.7	120	SURFACE	
W	NICOR	OWCR4D 5000K	LED	22	120	WALL	Note #5
W2	BROWNLEE	BZ-C24-30K-BLD-ES	LED	23	120	WALL	
X2	LITHONIA	LHQM LED R HO	LED	5	120	WALL/CEILING	
X3	LITHONIA	LHQM LED R	LED	5	120	WALL/CEILING	
X2R	LITHONIA	ELA B TQWP L0309	LED	3	9.6	WALL/CEILING	
Notes:							
General Note: Contractor shall provide and coordinate all fixture mounting accessories.							
1. Provide compatible dimmer switch.							
2. Provide with bi level dimming. Program 100% occupied, after unoccupied time delay dim to 20% until occupied again.							
3. Provide with high/low occ sensor. Provide one adjustment tool FSIR 100 to owner.							
4. Provide an unswitched circuit for the battery charger.							
5. Low dimming set to 10% after 10 minutes of unoccupied time.							

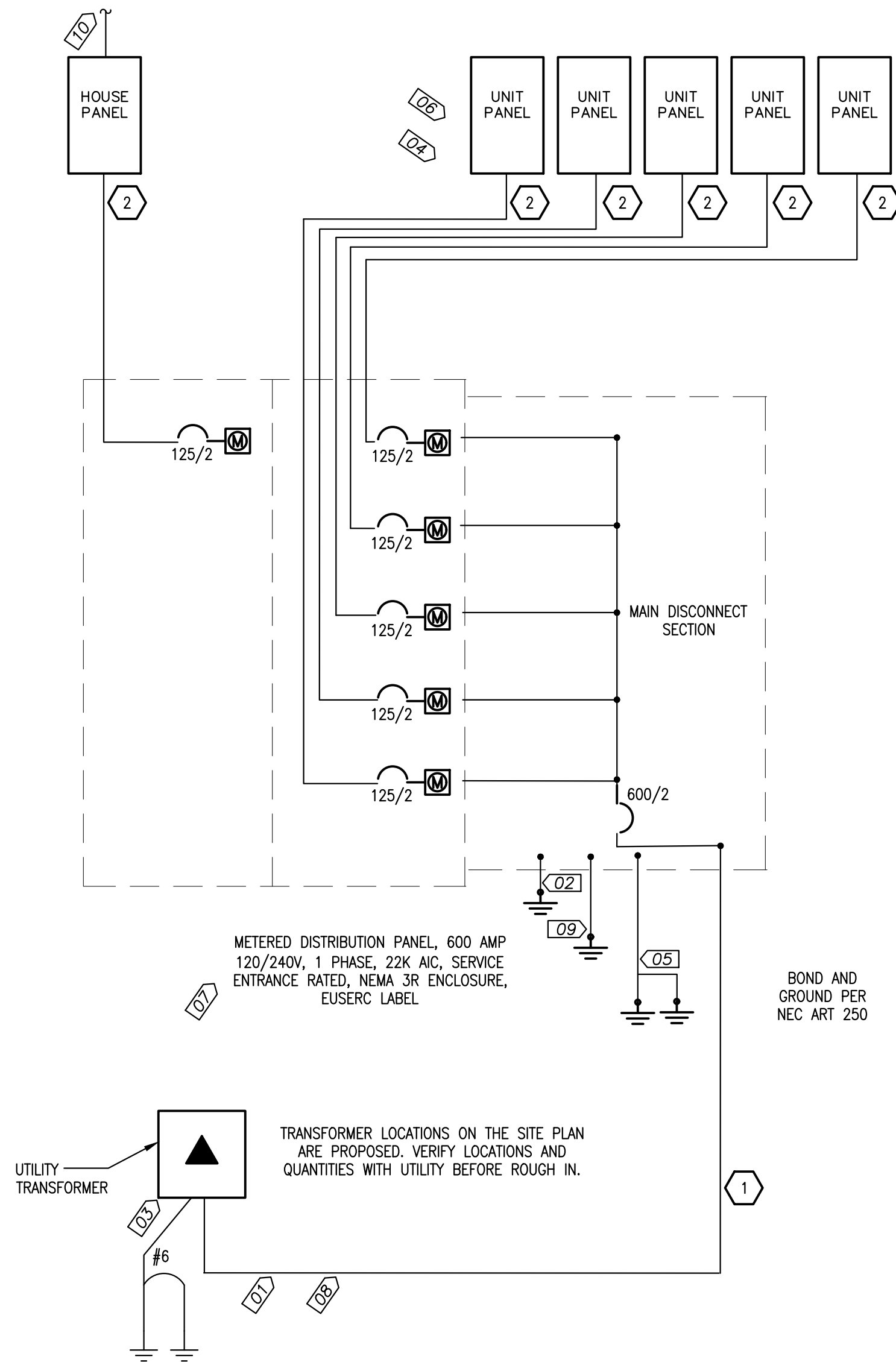
OCCUPANCY SENSOR SCHEDULE					
	TYPE	MANUFACTURER	MODEL	LOCATION	NOTES
1	OS-1	WATT STOPPER	PW-100	SWITCH	PR
2	OS-2	WATT STOPPER	PW-200	SWITCH	PR
3	OS-3	WATT STOPPER	DW-100	SWITCH	DUAL TECHNOLOGY
4	OS-4	WATT STOPPER	DW-200	SWITCH	DUAL TECHNOLOGY
5	OS-5	WATT STOPPER	UT-355-2	CEILING	LINE VOLTAGE
6	OS-6	WATT STOPPER	DT-200	WALL	NOTE #1
7	OS-7	WATT STOPPER	WT-605	CEILING	NOTE #1
8	OS-8	WATT STOPPER	WT-1105	CEILING	NOTE #1
9	OS-9	WATT STOPPER	WT-2205	CEILING	NOTE #1
10	OS-10	WATT STOPPER	WT-2255	CEILING	NOTE #1
11	OSD	WATT STOPPER	PW-311	WALL	PROVIDE COMPATIBLE SWITCH
12	PR-1	WATT STOPPER	BZ-50		POWER PACK
13	RR-1	WATT STOPPER	B347D-P		RELAY PACK
Notes:					
1. Provide power pack/ relay pack as needed.					
2. Within the 1 year warranty period provide, at no additional charge, provide 1 site visit to perform sensor adjustments at the owner's request.					
3. Wattstopper products are specified because of specific capabilities. Substitutions are required to have all of the characteristics of the wattstopper product and shall be prior approved.					
4. Sensor locations shown on the plans are diagrammatic intended for general location only. The contractor is responsible for locating the occupancy sensors according to manufacturers installation instructions taking into account the nature of the area that might cause false triggers. Contractor shall relocate occupancy sensor if necessary to operate within manufacturers requirements.					

MULTIFAMILY DWELLING UNIT - OPTIONAL CALCULATION				
SQUARE FOOTAGE				
BLDG. C SERVICE	4000	5		
GEN. LIGHTING	4000	3	12000	
SMALL APPL.	5	3000	15000	
RANGE	5	10000	50000	
FURNACE	5	900	4500	
WASHER	5	1500	7500	
DRYER	5	5000	25000	
CU	5	3432	17160	
DISHWASHER	5	1500	7500	
WATER HEATER	5	4500	22500	
TOTAL			161160	
DEMAND FACTOR	TABLE 220.84		45%	
SUBTOTAL VA			72522	
HOUSE PANEL			5224	
TOTAL VA			77746	
SERVICE	240 1PH			
TOTAL AMP		323.9417	323.94	

DWELLING UNIT OPTIONAL CALCULATION NEC 220.82				
SQUARE FOOTAGE				
2BR	850	2		
GEN. LIGHTING	850	3	2550	
SMALL APPL.			3000	
RANGE			10000	
WASHER			1500	
DRYER			5000	
WATER HEATER			4500	
FURNACE			900	
SUB TOTAL			27450	
1ST 10KW			-10000	
REM			17450	
REM X .4	0.4		6980	
1ST 10KW + .4 REM	10000		16980	
ELECTRIC AC	1	3432	3432	
TOTAL			20412	
TOTAL AMP		85.05	85.05	



NOT FOR CONSTRUCTION



1a ONE LINE DIAGRAM - METER BANK
SCALE: NTS

PHASE/NEUTRAL	GROUND	VOLTAGE DROP (ALUM CONDUCTORS)
#2/0	#2	TO 93'
#3/0	#1	TO 115'
#4/0	#1	TO 149'

1b VOLTAGE DROP CHART
SCALE: NTS

1c CONDUIT AND WIRE SCHEDULE
SCALE: NTS

CONDUIT AND WIRE SCHEDULE					
FEEDER #	CONDUIT	PHASE	NEUTRAL	GROUND	NOTES
1	(3) 2-1/2"	#250	#250		1
2	1 1/2"	#1/0	#1/0	#4	1

NOTES:

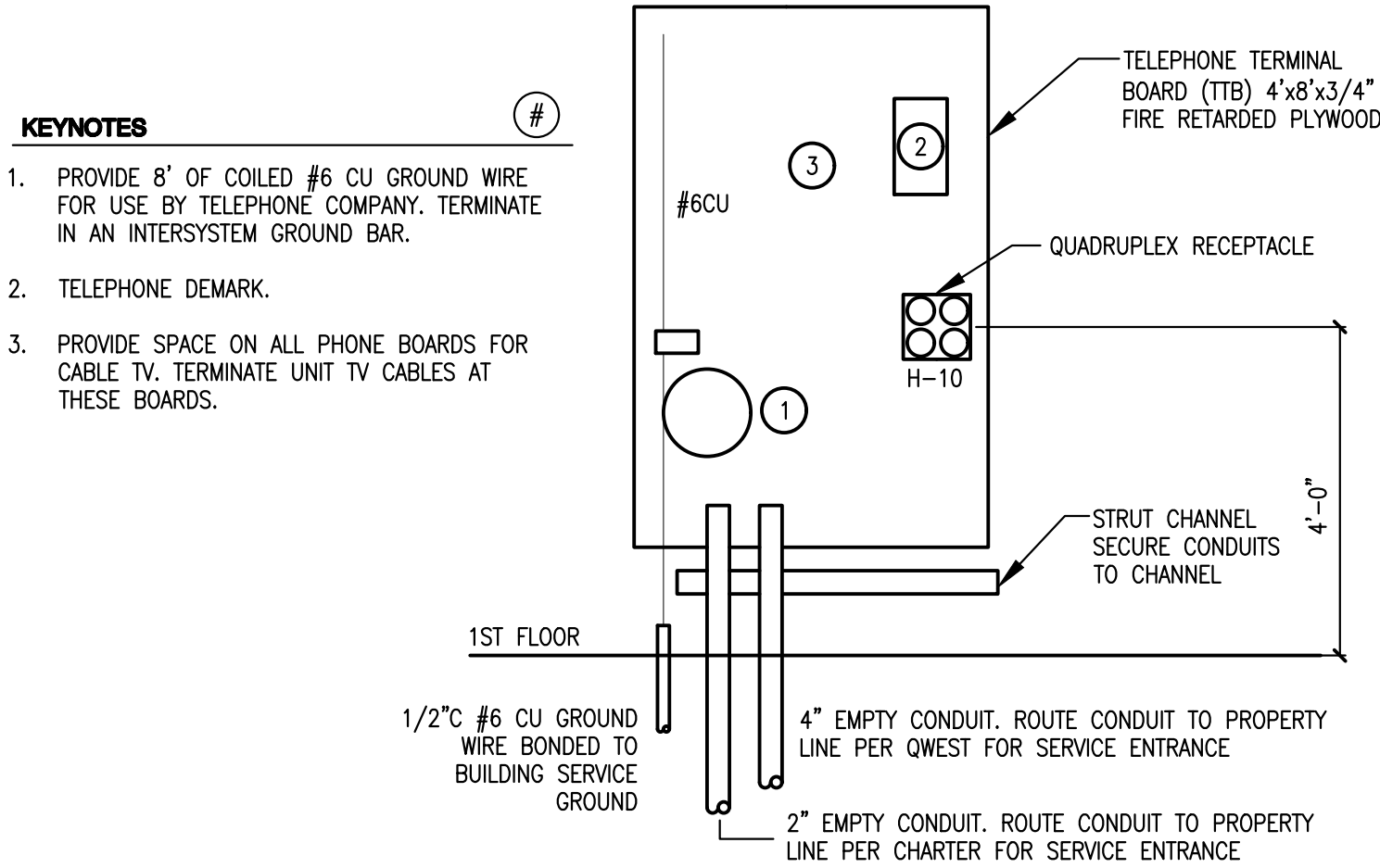
1. ALUMINUM CONDUCTORS

2. HOUSE PANEL NEUTRAL #1/0.

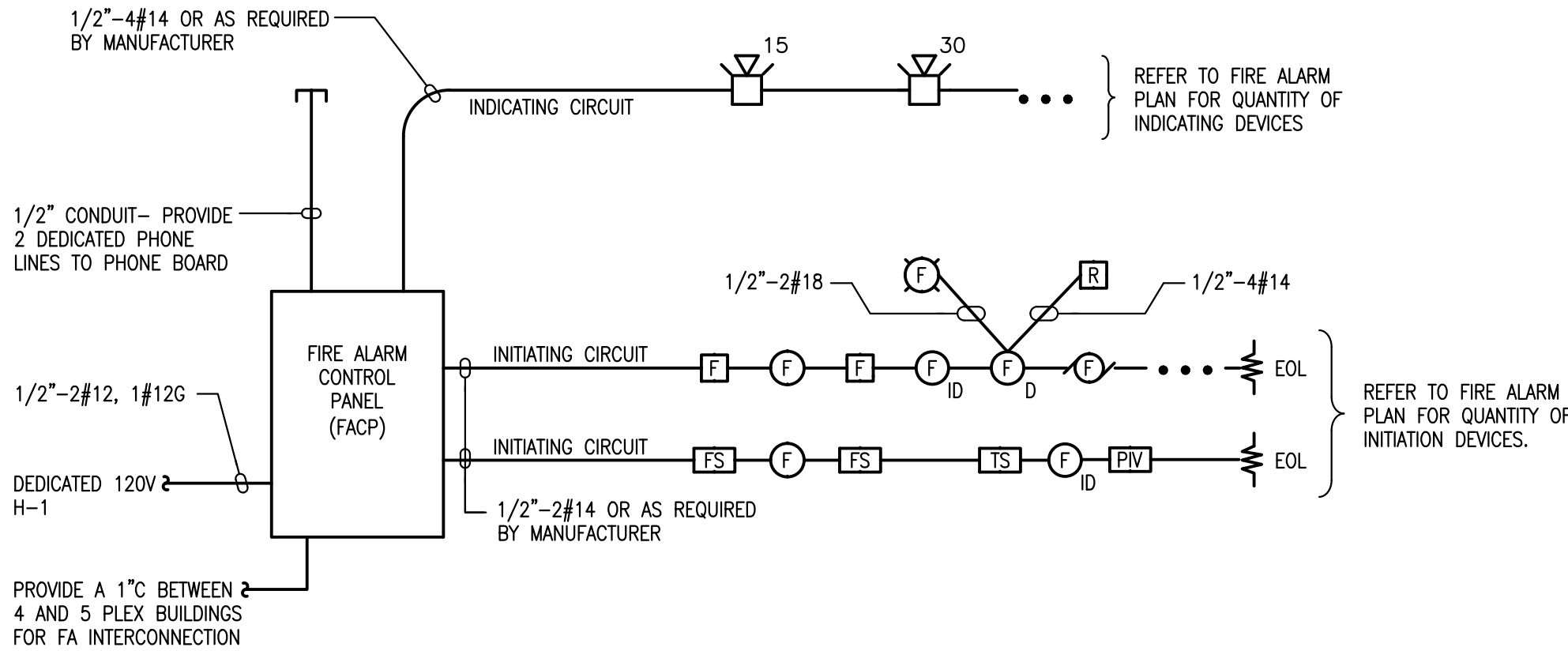
ALUMINUM CONDUCTORS ARE AN EXCEPTABLE SUBSTITUTE PROVIDING ADJUSTMENTS ARE MADE TO CONDUIT AND WIRE SIZE ALLOWING FOR VOLTAGE DROP AS PER NEC. PROVIDE CALCULATIONS TO ENGINEER OF RECORD FOR PRIOR APPROVAL.

- ELECTRICAL RISER DIAGRAM KEYED NOTES:**
- SECONDARY WIRE AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH UTILITY.
 - PROVIDE AND INSTALL #4 AWG COPPER GROUND TO CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC 250.52.3 AND 4/0 CU TO COLD WATER PIPE IN ACCORDANCE WITH NEC 250.53.D.
 - TRANSFORMER PAD BY THE ELECTRICAL CONTRACTOR COORDINATE W/ UTILITY. GROUND AND BOND ACCORDING TO NEC 250.
 - ALL AL CONDUCTORS U.N.O. NO ALUMINUM CONDUCTORS SMALLER THAN #2/0 AWG SHALL BE USED FOR WIRING OF SERVICES. ALUMINUM SHALL NOT BE ALLOWED FOR THE HOUSE PANEL.
 - PROVIDE AND INSTALL (2) 5/8"X 8' CU CLAD GROUND RODS INSTALLED 6' APART CONNECTED W/ A #6 CU.
 - TYPICAL UNIT FEEDER. NOTE: NEUTRAL REDUCTION NOT ALLOWED NEC ART 220.61.C. 2°C, 3-#2/0, 1-#4 GND AL TYPE SER CABLE ACCEPTABLE WHERE APPROVED BY THE NEC AND AHJ. SEE VOLTAGE DROP TABLE 1a/E5.0.
 - FAULT CURRENT RATING: FULLY RATE SYSTEM OR PROVIDE SERIES RATING WITH DOCUMENTATION. CONFIRM AVAILABLE FAULT CURRENT WITH UTILITY.
 - CONTRACTOR TO PROVIDE ALL TRENCHING, COORDINATE WITH UTILITY FOR REQUIREMENTS.
 - SERVICE BOND 1/0 CU.
 - ROUTE CAPPED 2" CONDUIT FROM SERVICE LOCATION TO UNDER ROOFTOP FOR FUTURE SOLAR PROVISION. CONSULT WITH ARCHITECT FOR CONDUIT STUB LOCATION.

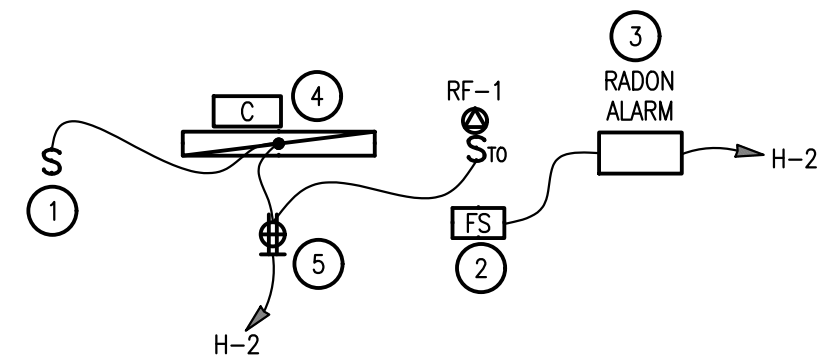
- GENERAL NOTES**
- COORDINATE ALL WORK AND EQUIPMENT WITH UTILITY. INSTALL EQUIPMENT TO UTILITY SPECIFICATIONS. OBTAIN GEAR APPROVAL BEFORE ORDERING ANY EQUIPMENT.
 - FULLY RATE OR FACTORY SERIES RATE.
 - ALUMINUM CAN BE SUBSTITUTED PROVIDED WIRE AND CONDUIT SIZE IS ADJUSTED AND VOLTAGE DROP IS CONSIDERED.
 - VERIFY AVAILABLE FAULT CURRENT WITH UTILITY. GET UTILITY APPROVAL ON ELECTRICAL SERVICE GEAR BEFORE ORDERING.



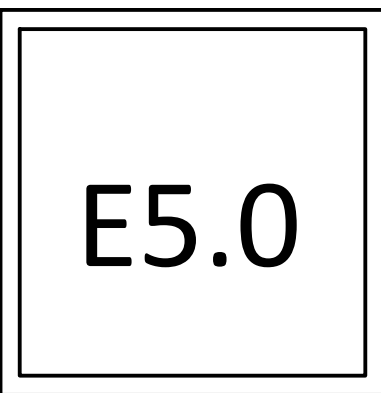
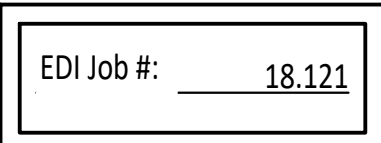
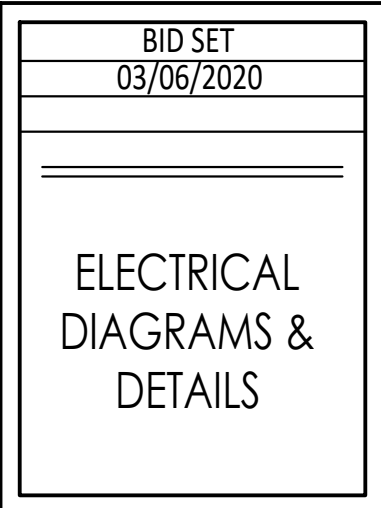
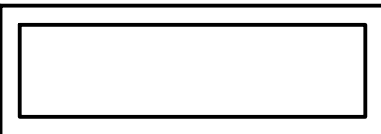
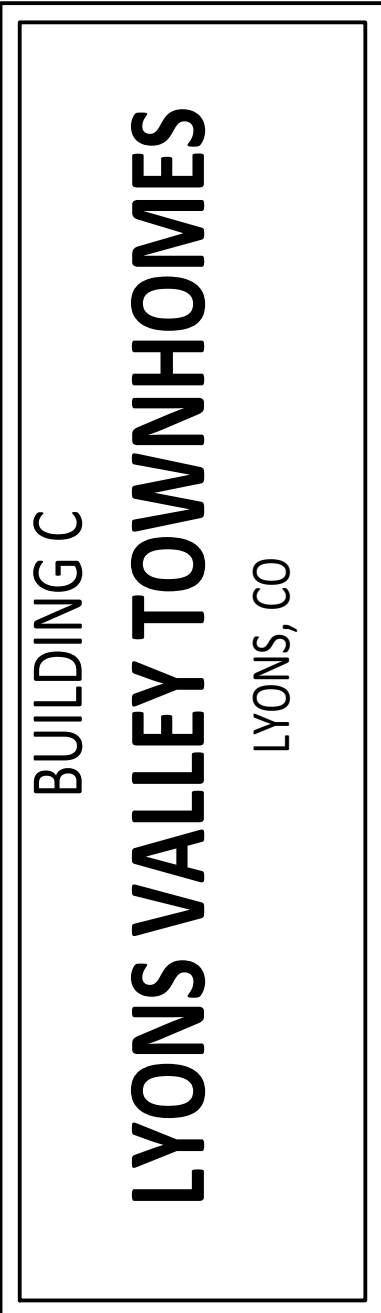
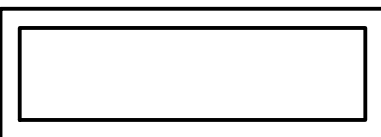
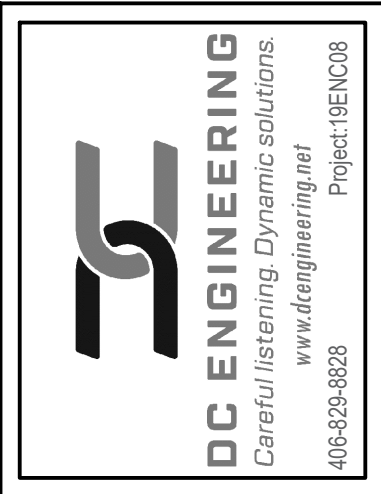
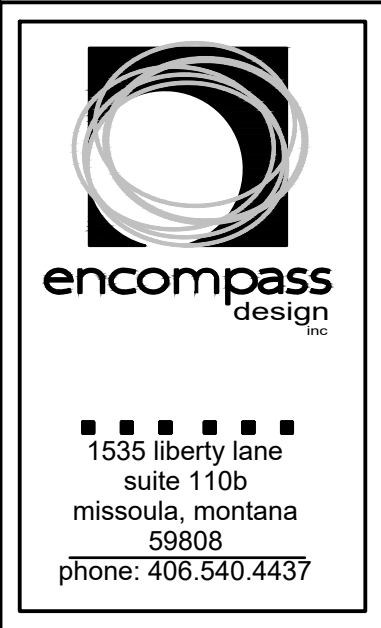
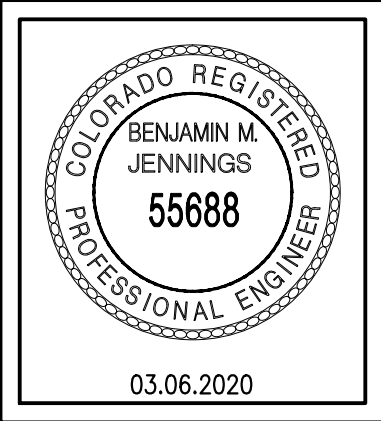
2 TELEPHONE/CABLE TV TERMINAL BOARD
SCALE: NTS



3 FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NTS



4 RADON FAN DETAIL
SCALE: NTS



NOT FOR CONSTRUCTION

PANELBOARD SCHEDULE													
PANEL: A (MULTI-FAM UNITS)			PROJECT: Lyons										
VOLTAGE: 240/120V		PHASE 1		WIRE 3		AMP/ERATING: 125		SC RATING: 10,000		MAIN: MLO			
ENTRY: TOP/BOTTOM		MOUNTING: SURFACE											
LOADS:		Amps	VA	LOAD TYPES:			REMARKS:						
PHASE A:		0	0	1 = LIGHTING			LOAD CENTER						
PHASE B:		0	0	2 = RECEPTACLES			* AFCI CIRCUIT BREAKER						
				3 = MISC			** AFCI/GFCO COMBO BREAKER						
TOTAL:		0	0	4 = MOTOR			*** PROVIDE PERMANENTLY MOUNTED CIRCUIT BREAKER LOCK-OFF DEVICE						
LOAD (VA)	LOAD SERVED			LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)	
	* RECEPT LIVING ROOM			2	20	1	1	A	2	20	1	2	* RECEPT. REFER
	RECEPT. BATHROOM			2	20	1	3	B	4	20	1	2	** RECEPT. KITCHEN
	RANGE			2	50	2	5	A	6	20	1	2	** RECEPT. KITCHEN
	RANGE			2	*	*	7	B	8	20	1	2	** DISHWASHER
	** RECEPT. HOOD MICRO			2	20	1	9	A	10	20	1	1	* LIGHTING/SMOKE DETECTORS
	* RECEPT. BED ROOM 1			2	20	1	11	B	12	20	1		SPARE
	* RECEPT. BED ROOM 2			2	20	1	13	A	14	20	1	2	* WASHER
	CARPORT RECEPT.			2	20	1	15	B	16	30	2	2	DRYER
	GARBA GE DISPOSAL			2	20	1	17	A	18	*	*	2	DRYER
	SPARE			2	20	1	19	B	20	30	2	3	***WATER HEATER
	CU			4	25	2	21	A	22	*	*	3	***WATER HEATER
	CU			4	*	*	23	B	24	15	1	4	FURNACE

PANELBOARD SCHEDULE														
PANEL: H (Buildings A&B)			PROJECT: Lyons											
VOLTAGE: 240/120V			PHASE: 1		WIRE: 3		AMPERE RATING: 225			SC RATING: 22,000		MAIN: MLO		
ENTRY: TOP/BOTTOM			MOUNTING: SURFACE											
LOADS:		Amps	VA	LOAD TYPES:			REMARKS:							
PHASE A:		75	8983	1 = LIGHTING			PANELBOARD, COPPER BUSSES, BOLT ON BREAKERS, DOOR-IN-DOOR							
PHASE B:		81	9673	2 = RECEPTACLES			* GFCI CIRCUIT BREAKER							
				3 = MISC			**ONLY FOR BUILDING A							
TOTAL:		78	18656	4 = MOTOR										
LOAD (VA)	LOAD SERVED			LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED		LOAD (VA)	
200	FACP			3	20	1	A	2	20	1	3	RADON FAN	500	
875	EBB-1.2 CORRIDOR			3	20	2	3	B	4	20	1	2	OUTDOOR RECEPTACLES	1080
875	EBB-1.2 CORRIDOR			3	*	*	5	A	6	20	1	2	MECHANICAL ROOM RECEPTS.	360
500	EW-H-1			3	20	2	7	B	8	20	1	2	ERV-1	42
500	EW-H-1			3	*	*	9	A	10	20	1	2	TTB RECEPT.	360
384	BUILDING COMMON LIGHTING			1	20	1	11	B	12	20	*	2	**ROAD LIGHTING BUILDINGS A THRU E	106
180	CORRIDOR RECEPTS.			1	20	1	13	A	14	*	*	2	**ROAD LIGHTING BUILDINGS A THRU E	106
200	EF-2			4	20	1	15	B	16	20	*	2	**ROAD LIGHTING FOR CARTER DR.	332
							17	A	18	*	*	2	**ROAD LIGHTING FOR CARTER DR.	332
1140	**DSO-1/DSB-1			3	15	2	19	B	20	20	1	2	**OFFICE RECEPTS.	720
1140	**DSO-1/DSB-1			3	*	*	21	A	22					
44	**OFFICE EF-2s			3	20	1	23	B	24					
180	**RESTROOM RECEPTS.			2	20	1	25	A	26					
3250	**OFFICE WH-2			3	35	2	27	B	28					
3250	**OFFICE WH-2			3	*	*	29	A	30					
1000	**EBB-2 OFFICE			3	20	2	31	B	32					
1000	**EBB-2 OFFICE			3	*	*	33	A	34					
							35	B	36					
							37	A	38					
							39	B	40				FUTURE PV BREAKER SPACE	
							41	A	42				FUTURE PV BREAKER SPACE	

LUMINAIRE SCHEDULE - LYONS VALLEY						3/9/2020	
LUMINAIRE	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	VOLTAGE	MOUNTING	COMMENTS
A	BROWNLEE	2062 16 WH C24 27K ES	LED	23	120	SURFACE	Note #1
A2	BROWNLEE	2062 10 WH B12 27K ES	LED	12	120	SURFACE	Note #1
B	BROWNLEE	7162-GY-C17-35K-BLD ECW ES	LED	16	120	SURFACE	
B2	LIGHTOLIER	S10R8030K22W	LED	23.2	120	SURFACE	
C	LITHONIA	CDS L48 MVOLT DM 35K 80CRI WH	LED	38	120	SURFACE	
C2	LITHONIA	LBL4W 6500LM 80CRI 35K MVOLT	LED	50.1	120	SURFACE	
CF	STAMO	GL-CL003	LED	60	120	CEILING	
D	BROWNLEE	5176-24-BN-H16-35K-ES	LED	16	120	WALL	
E	LITHONIA	ELM2 LED	LED	5	120	WALL/CEILING	Note #4
F	HEW	SLF 4 L52 827 HIA OCCSWS FSP 211 L2	LED	58	120	WALL	Note #3
P	LITHONIA	MDPB BZ DMCN BZ	LED	9.5	120	PENDANT	
S	LEVITON	9864-LED	LED	8.7	120	SURFACE	
W	NICOR	OWCR4D 5000K	LED	22	120	WALL	Note #5
W2	BROWNLEE	BZ-C24-30K-BLD-ES	LED	23	120	WALL	
X2	LITHONIA	LHQM LED R HO	LED	5	120	WALL/CEILING	
X3	LITHONIA	LHQM LED R	LED	5	120	WALL/CEILING	
X2R	LITHONIA	ELA B TQWP L0309	LED	3	9.6	WALL/CEILING	

Notes:

General Note: Contractor shall provide and coordinate all fixture mounting accessories.

1. Provide compatible dimmer switch.

2. Provide with bi level dimming. Program 100% occupied, after unoccupied time delay dim to 20% until occupied again.

3. Provide with high/low occ sensor. Provide one adjustment tool FSIR 100 to owner.

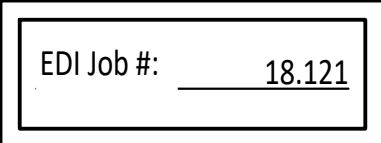
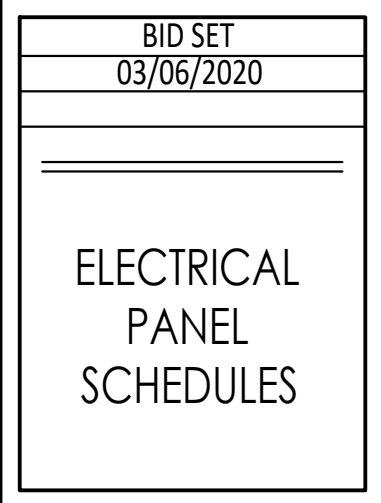
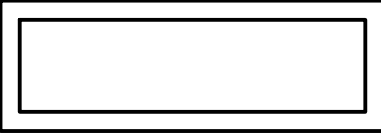
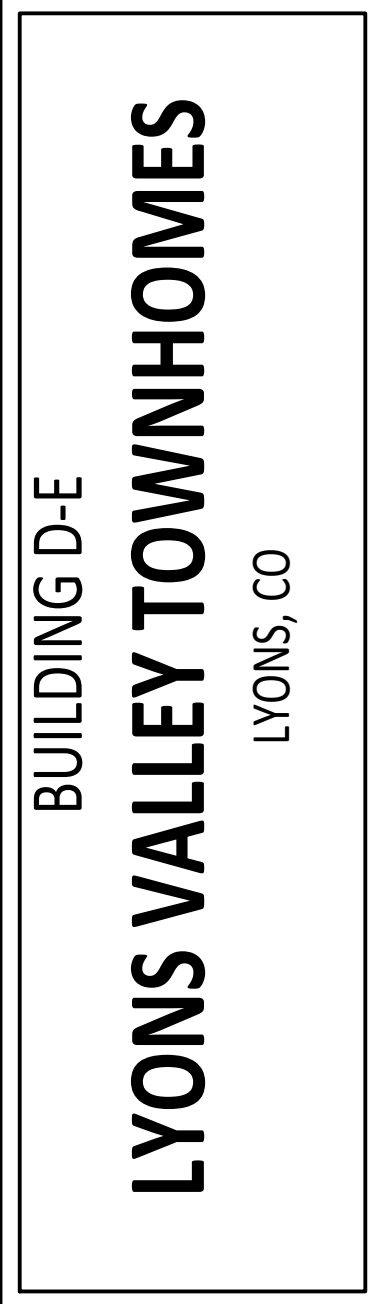
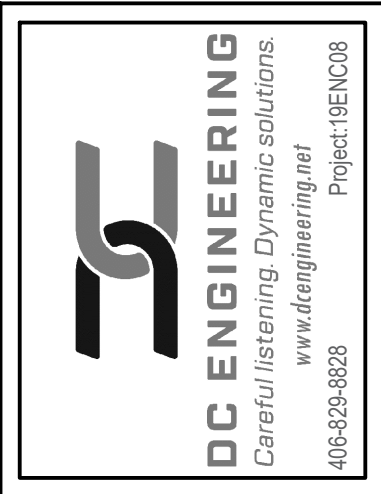
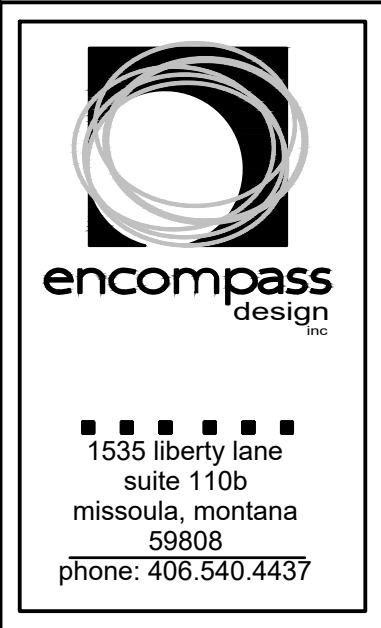
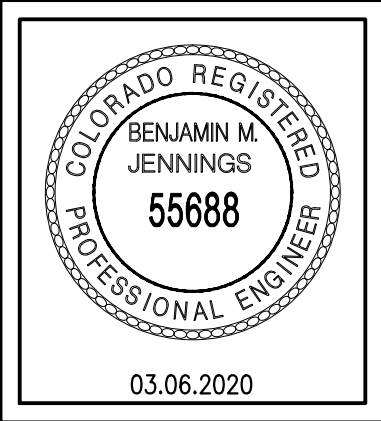
4. Provide an unswitched circuit for the battery charger.

5. Low dimming set to 10% after 10 minutes of unoccupied time.

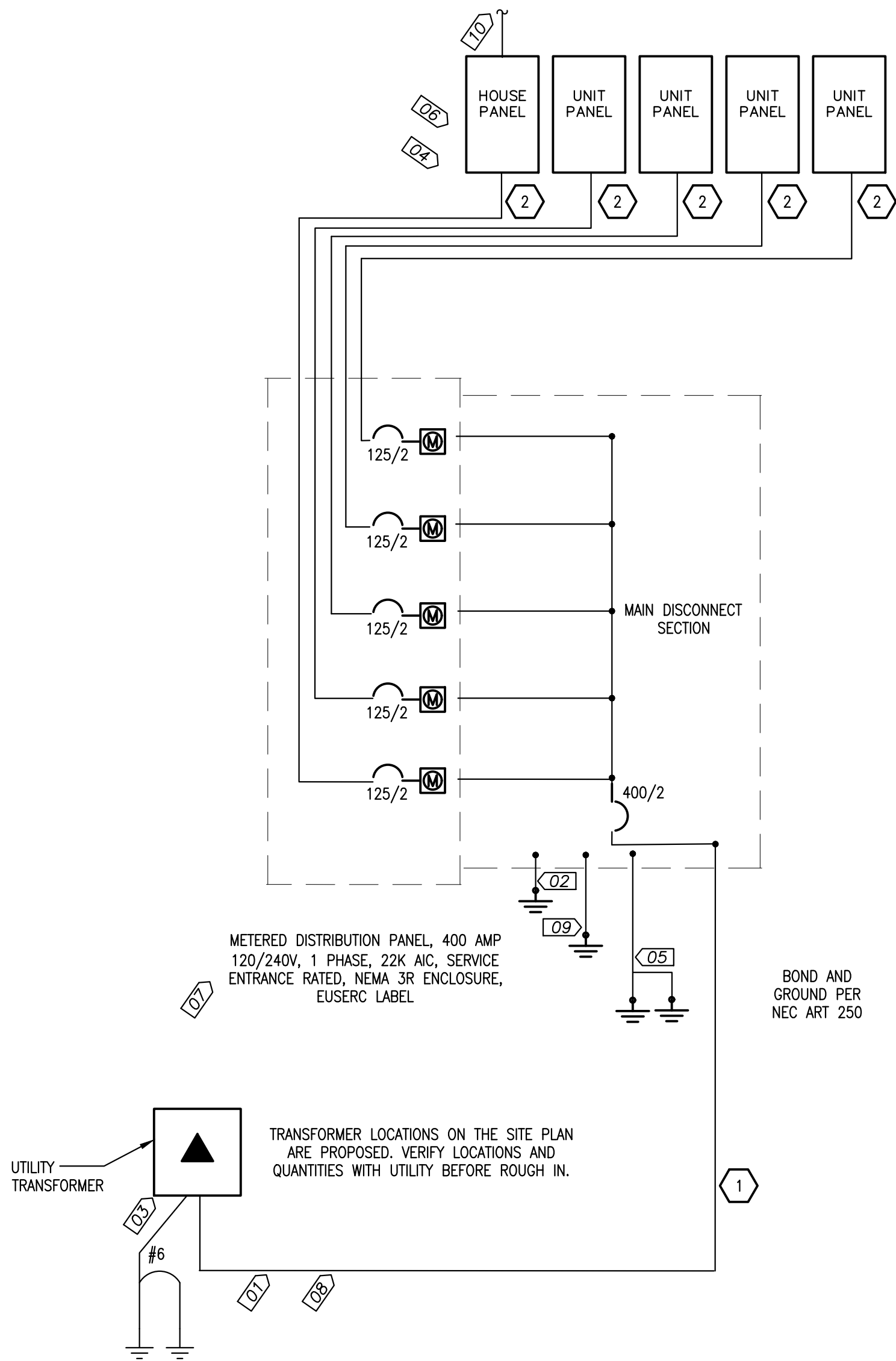
DWELLING UNIT OPTIONAL CALCULATION NEC 220.82				
SQUARE FOOTAGE				
2BR	860	2		
GEN. LIGHTING		850	3	2550
SMALL APPL.				3000
RANGE				10000
WASHER				1500
DRYER				5000
WATER HEATER				4500
FURNACE				900
SUB TOTAL				27450
1ST 10KW				-10000
REM				17450
REM X .4		0.4		6980
1ST 10KW + .4 REM		10000		16980
ELECTRIC AC		1	3432	3432
TOTAL				20412
TOTAL AMP		85.05		85.05

MULTIFAMILY DWELLING UNIT - OPTIONAL CALCULATION				
SQUARE FOOTAGE				
BLDG. D,E SERVICE	4000	4		
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SMALL APPL.		4	3000	12000
RANGE		4	10000	40000
FURNACE		4	900	3600
WASHER		4	1500	6000
DRYER		4	5000	20000
CU		4	3432	13728
DISHWASHER		4	1500	6000
WATER HEATER		4	4500	18000
TOTAL				131328
DEMAND FACTOR	TABLE 220.84			45%
SUBTOTAL VA				59097.6
HOUSE PANEL				3064
TOTAL VA				62162
SERVICE	240 1PH			
TOTAL AMP		259.0067		259.01

OCCUPANCY SENSOR SCHEDULE					
	TYPE	MANUFACTURER	MODEL	LOCATION	NOTES
1	OS-1	WATT STOPPER	PW-100	SWITCH	PR
2	OS-2	WATT STOPPER	PW-200	SWITCH	PR
3	OS-3	WATT STOPPER	DW-100	SWITCH	DUAL TECHNOLOGY
4	OS-4	WATT STOPPER	DW-200	SWITCH	DUAL TECHNOLOGY
5	OS-5	WATT STOPPER	UT-355-2	CEILING	LINE VOLTAGE
6	OS-6	WATT STOPPER	DT-200	WALL	NOTE #1
7	OS-7	WATT STOPPER	WT-605	CEILING	NOTE #1
8	OS-8	WATT STOPPER	WT-1105	CEILING	NOTE #1
9	OS-9	WATT STOPPER	WT-2205	CEILING	NOTE #1
10	OS-10	WATT STOPPER	WT-2255	CEILING	NOTE #1
11	OSD	WATT STOPPER	PW-311	WALL	PROVIDE COMPATIBLE SWITCH
12	RP-1	WATT STOPPER	BZ-50		POWER PACK
13	RP-1	WATT STOPPER	B347D-P		RELAY PACK
Notes:					
1. Provide power pack/ relay pack as needed.					
2. Within the 1 year warranty period provide, at no additional charge, provide 1 site visit to perform sensor adjustments at the owner's request.					
3. Wattstopper products are specified because of specific capabilities. Substitutions are required to have all of the characteristics of the wattstopper product and shall be prior approved.					
4. Sensor locations shown on the plans are diagrammatic intended for general location only. The contractor is responsible for locating the occupancy sensors according to manufacturers installation instructions taking into account the nature of the area that might cause false triggers. Contractor shall relocate occupancy sensor if necessary to operate within manufacturers requirements.					



NOT FOR CONSTRUCTION



1a ONE LINE DIAGRAM - METER BANK
SCALE: NTS

PHASE/NEUTRAL	GROUND	VOLTAGE DROP (ALUM CONDUCTORS)
#2/0	#2	TO 93'
#3/0	#1	TO 115'
#4/0	#1	TO 149'

1b VOLTAGE DROP CHART
SCALE: NTS

1c CONDUIT AND WIRE SCHEDULE
SCALE: NTS

CONDUIT AND WIRE SCHEDULE					
FEEDER #	CONDUIT	PHASE	NEUTRAL	GROUND	NOTES
1	(2) 2-1/2"	#250	#250		1
2	1 1/2"	#1/0	#1/0	#4	1
NOTES:					
1. ALUMINUM CONDUCTORS					

ELECTRICAL RISER DIAGRAM KEYED NOTES:

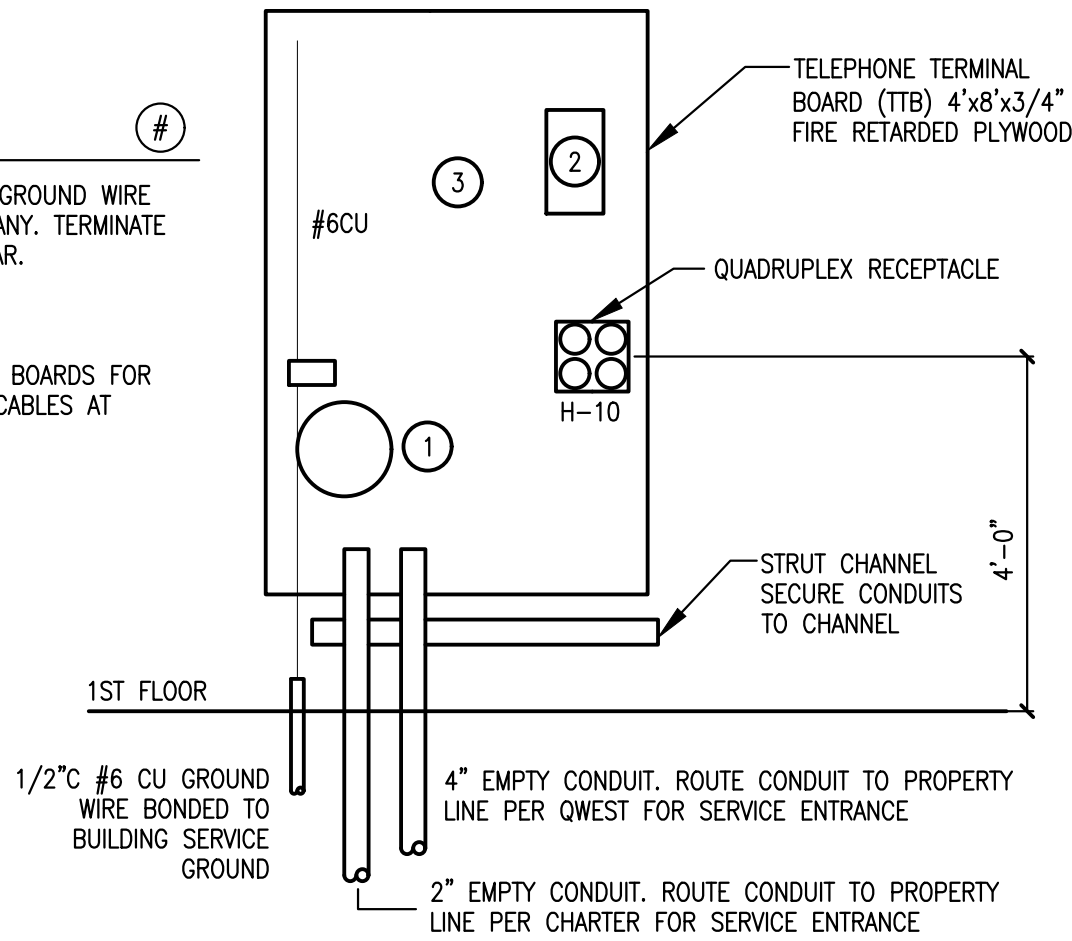
- 01 SECONDARY WIRE AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH UTILITY.
- 02 PROVIDE AND INSTALL #4 AWG COPPER GROUND TO CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC 250.52.3 AND 4/0 CU TO COLD WATER PIPE IN ACCORDANCE WITH NEC 250.53.D.
- 03 TRANSFORMER PAD BY THE ELECTRICAL CONTRACTOR COORDINATE W/ UTILITY. GROUND AND BOND ACCORDING TO NEC 250.
- 04 ALL AL CONDUCTORS U.N.O. NO ALUMINUM CONDUCTORS SMALLER THAN #2/0 AWG SHALL BE USED FOR WIRING OF SERVICES. ALUMINUM SHALL NOT BE ALLOWED FOR THE HOUSE PANEL.
- 05 PROVIDE AND INSTALL (2) 5/8"X 8' CU CLAD GROUND RODS INSTALLED 6' APART CONNECTED W/ A #6 CU.
- 06 TYPICAL UNIT FEEDER. NOTE: NEUTRAL REDUCTION NOT ALLOWED NEC ART 220.61.C. 2°C, 3-#2/0, 1-#4 GND AL TYPE SER CABLE ACCEPTABLE WHERE APPROVED BY THE NEC AND AHJ. SEE VOLTAGE DROP TABLE 1a/E5.0.
- 07 FAULT CURRENT RATING: FULLY RATE SYSTEM OR PROVIDE SERIES RATING WITH DOCUMENTATION. CONFIRM AVAILABLE FAULT CURRENT WITH UTILITY.
- 08 CONTRACTOR TO PROVIDE ALL TRENCHING, COORDINATE WITH UTILITY FOR REQUIREMENTS.
- 09 SERVICE BOND #2 CU.
- 10 ROUTE CAPPED 2" CONDUIT FROM SERVICE LOCATION TO UNDER ROOFTOP FOR FUTURE SOLAR PROVISION. CONSULT WITH ARCHITECT FOR CONDUIT STUB LOCATION.

GENERAL NOTES

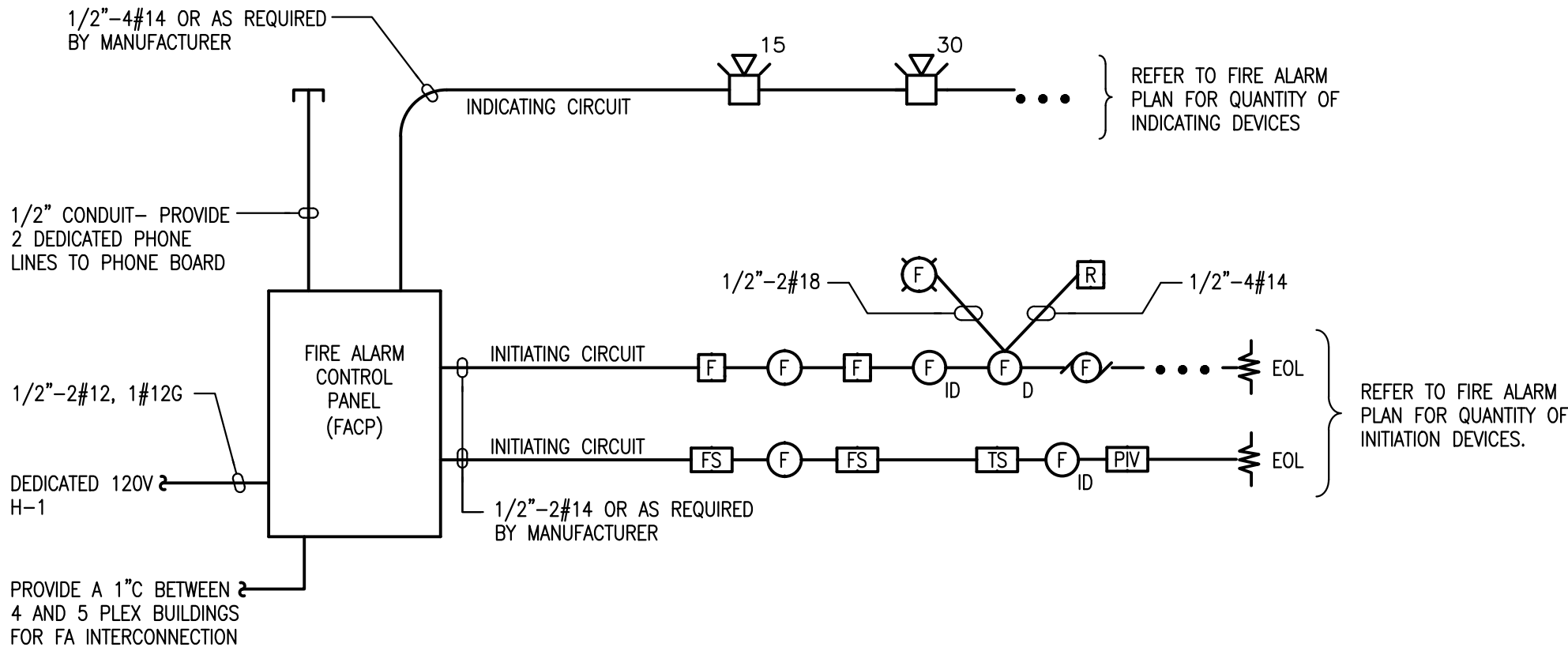
- A. COORDINATE ALL WORK AND EQUIPMENT WITH UTILITY. INSTALL EQUIPMENT TO UTILITY SPECIFICATIONS. OBTAIN GEAR APPROVAL BEFORE ORDERING ANY EQUIPMENT.
- B. FULLY RATE OR FACTORY SERIES RATE.
- C. ALUMINUM CAN BE SUBSTITUTED PROVIDED WIRE AND CONDUIT SIZE IS ADJUSTED AND VOLTAGE DROP IS CONSIDERED.
- D. VERIFY AVAILABLE FAULT CURRENT WITH UTILITY. GET UTILITY APPROVAL ON ELECTRICAL SERVICE GEAR BEFORE ORDERING.

KEYNOTES

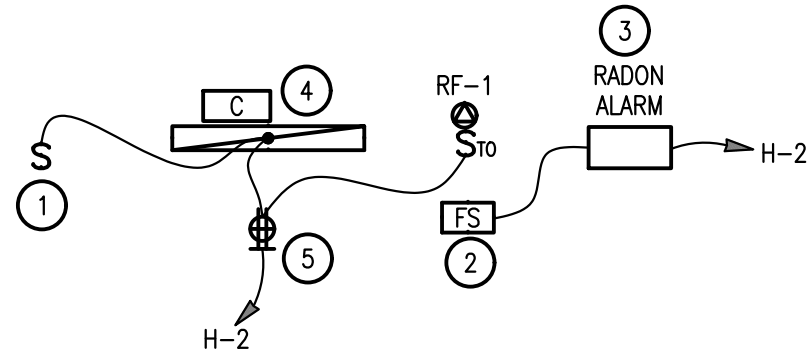
1. PROVIDE 8' OF COILED #6 CU GROUND WIRE FOR USE BY TELEPHONE COMPANY. TERMINATE IN AN INTERSYSTEM GROUND BAR.
2. TELEPHONE DEMARK.
3. PROVIDE SPACE ON ALL PHONE BOARDS FOR CABLE TV. TERMINATE UNIT TV CABLES AT THESE BOARDS.



2 TELEPHONE/CABLE TV TERMINAL BOARD
SCALE: NTS



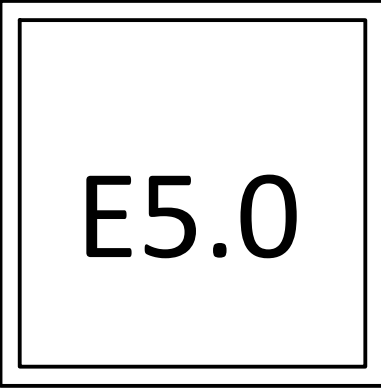
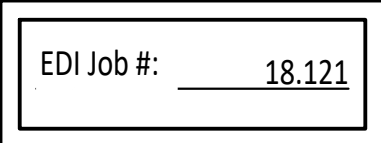
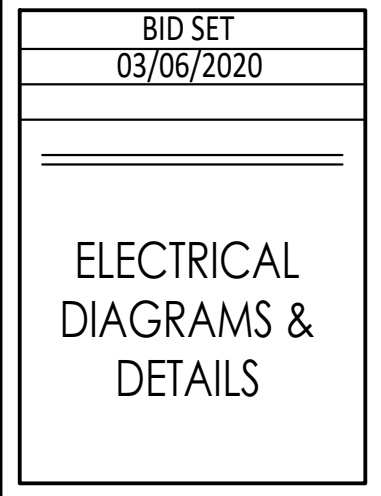
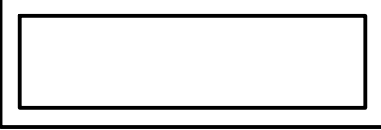
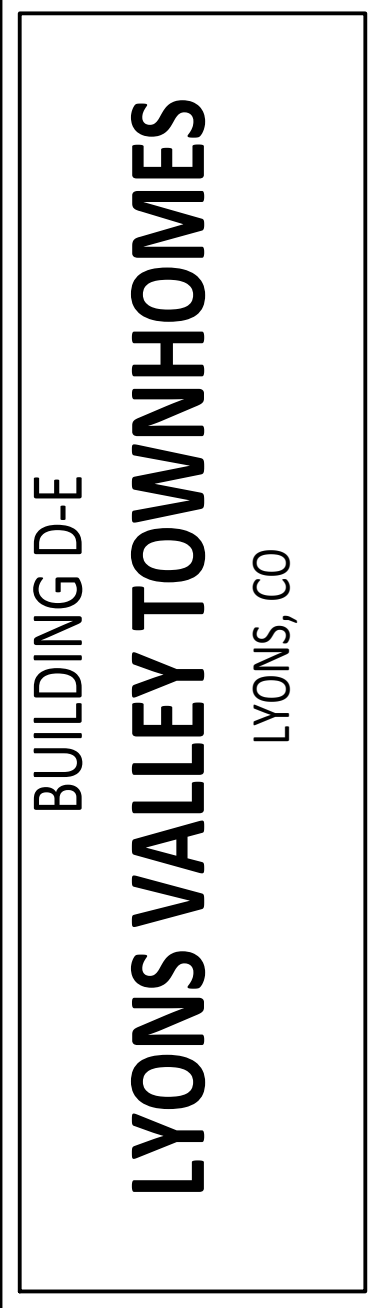
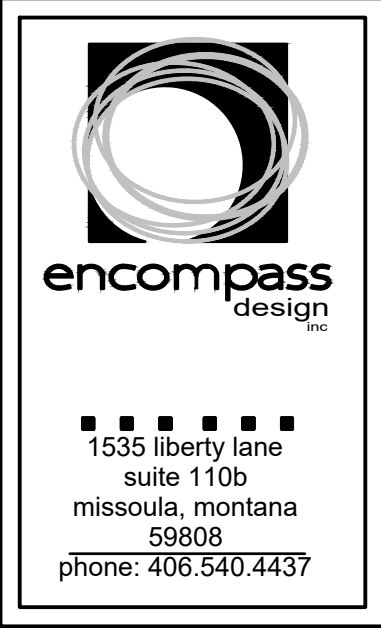
3 FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NTS



KEYNOTES

1. LOCATE LIGHT SWITCH ADJACENT TO ATTIC SPACE ACCESS. COORDINATE WITH ARCHITECT.
2. FLOW SWITCH ON RADON FAN.
3. RADON ALARM PROVISION LOCATION. LOCATE IN MECHANICAL ROOM.
4. LIGHT IN ATTIC SPACE NEAR RADON FAN LOCATION.
5. MOUNT RECEPTACLE IN ATTIC SPACE WITHIN 10' OF PROPOSED RADON FAN LOCATION. COORDINATE WITH ARCHITECT.

4 RADON FAN DETAIL
SCALE: NTS



NOT FOR CONSTRUCTION



D-Series Size 0 LED Area Luminaire



Catalog Number
Notes
Type

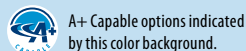
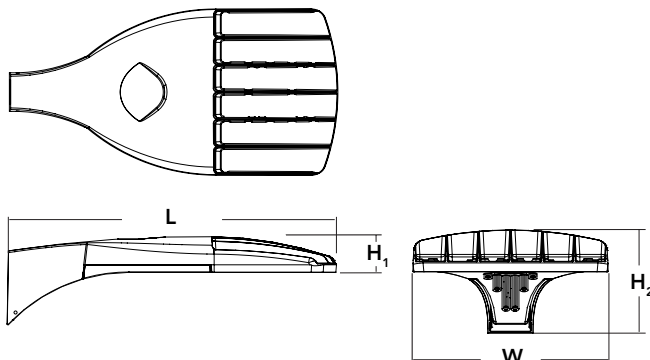
Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Specifications

EPA:	0.95 ft ² (.09 m ²)
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height ₁ :	3" (7.62 cm)
Height ₂ :	7" (17.8 cm)
Weight (max):	16 lbs (7.25 kg)



A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED					
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	Forward optics P1 P4 P7 P2 P5 P3 P6 Rotated optics P10 ¹ P12 ¹ P11 ¹ P13 ¹	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control ² LCCO Left corner cutoff ² RCCO Right corner cutoff ²	MVOLT ^{3,4} 120 ⁴ 208 ⁴ 240 ⁴ 277 ⁴ 347 ^{4,5} 480 ^{4,5}	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ⁶ RPUMBA Round pole universal mounting adaptor ⁶ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁷

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ^{8,9} PIRHN Network, high/low motion/ambient sensor ¹⁰ PER NEMA twist-lock receptacle only (control ordered separate) ¹¹ PER5 Five-pin receptacle only (control ordered separate) ^{11,12} PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) ^{11,12} DMG 0-10V dimming extend out back of housing for external control (control ordered separate)	Shipped installed HS House-side shield ¹⁶ SF Single fuse (120, 277, 347V) ⁴ DF Double fuse (208, 240, 480V) ⁴ L90 Left rotated optics ¹ R90 Right rotated optics ¹ DDL Diffused drop lens ¹⁶ Shipped separately BS Bird spikes ¹⁷ EGS External glare shield ¹⁷	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



Ordering Information

Accessories

Ordered and shipped separately.

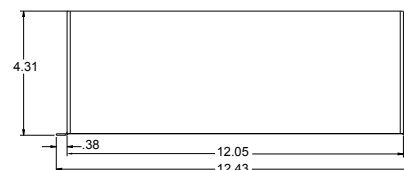
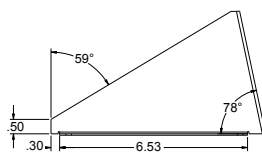
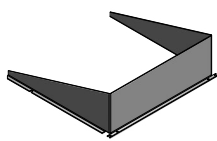
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹⁸
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹⁸
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹⁸
DSHORT SBK U	Shorting cap ¹⁸
DSX0HS 20C U	House-side shield for P1,P2,P3 and P4 ¹⁶
DSX0HS 30C U	House-side shield for P10,P11,P12 and P13 ¹⁶
DSX0HS 40C U	House-side shield for P5,P6 AND P7 ¹⁶
DSX0DDL U	Diffused drop lens (polycarbonate) ¹⁶
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) ¹⁹
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ¹⁹

For more control options, visit [DTL](#) and [ROAM](#) online.
Link to [nLight Air 2](#)

NOTES

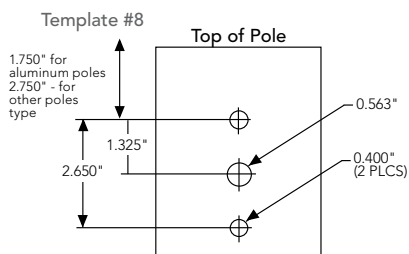
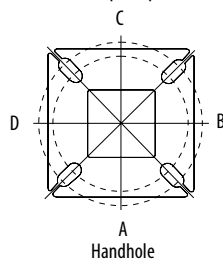
- 1 P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- 2 Not available with HS or DDL.
- 3 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 4 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 5 Not available in P4, P7 or P13. Not available with BL30, BL50 or PNMT options.
- 6 Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANSI C136.31.
- 7 Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- 8 Must be ordered with PIRHN.
- 9 Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- 10 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- 11 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- 12 If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- 13 Reference Motion Sensor table on page 3.
- 14 Reference PER Table on page 3 to see functionality.
- 15 Not available with other dimming controls options.
- 16 Not available with BLC, LCCO and RCCO distribution.
- 17 Must be ordered with fixture for factory pre-drilling.
- 18 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- 19 For retrofit use only.

EGS – External Glare Shield



Drilling

HANDHOLE ORIENTATION (from top of pole)



Tenon Mounting Slipfitter

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

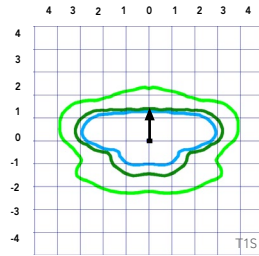
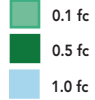
Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Photometric Diagrams

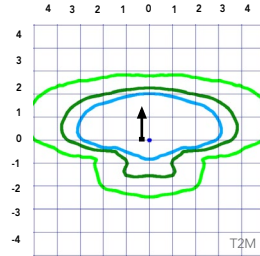
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 0 homepage](#).

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

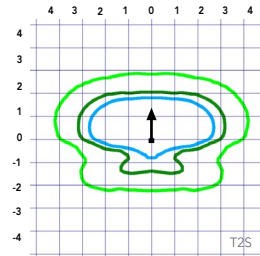
LEGEND



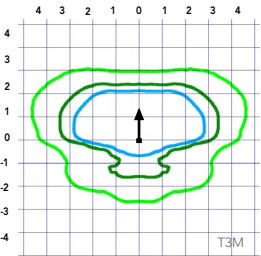
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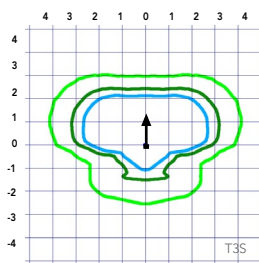
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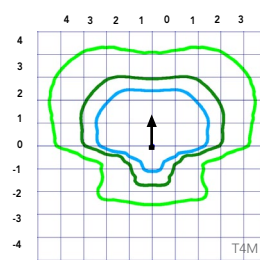
Test No. LTL23457P25 tested in accordance with IESNA LM-79-08.



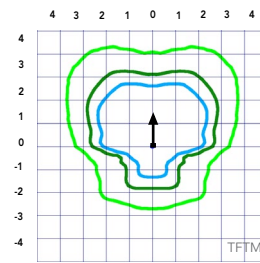
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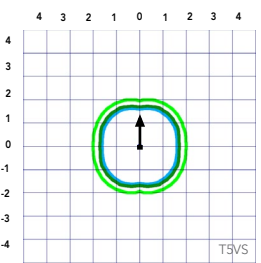
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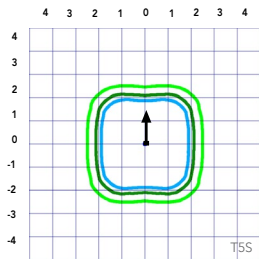
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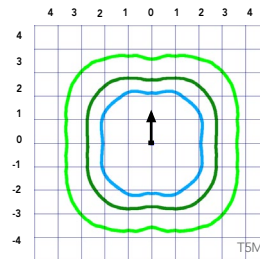
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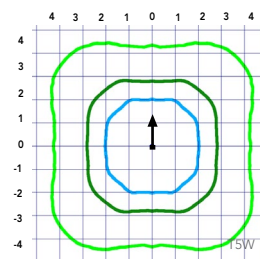
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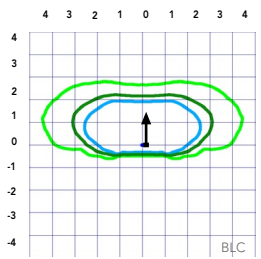
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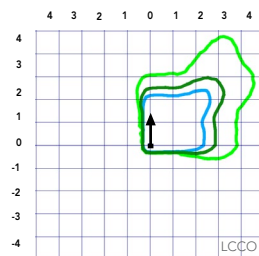
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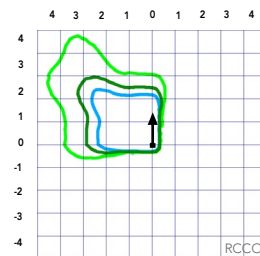
Test No. LTL23451P25 tested in accordance with IESNA LM-79-08.



Test No.



Test No.



Test No.

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use with separate Dusk to Dawn or timer.

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBOR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	20	530	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
				T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
				T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
				T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
				T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
				TSVS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				TSS	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				TSM	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				TSW	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
				T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124
				T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125
				T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
				T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
				TSVS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				TSS	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				TSM	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				TSW	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
				T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
				T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
				T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
				T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
				TSVS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				TSS	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				TSM	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				TSW	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
				T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
				T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
				T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
				T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
				TSVS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				TSS	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				TSM	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				TSW	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
					5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				TSVS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				TSS	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				TSM	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				TSW	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				TSVS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				TSS	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				TSM	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				TSW	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				TSVS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				TSS	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				TSM	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				TSW	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
					10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	30	530	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138
				T2S	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138
				T2M	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140
				T3S	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136
				T3M	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141
				TSVS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				TSS	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				TSM	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				TSW	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116
				LCCO	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83
				RCCO	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83
P11	30	700	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130
				T2S	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129
				T2M	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132
				T3S	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127
				T3M	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133
				TSVS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				TSS	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				TSM	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				TSW	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109
				LCCO	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78
				RCCO	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78
P12	30	1050	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127
				T2S	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127
				T2M	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129
				T3S	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125
				T3M	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130
				TSVS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				TSS	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				TSM	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				TSW	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107
				LCCO	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76
				RCCO	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76
P13	30	1300	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123
				T2S	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122
				T2M	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125
				T3S	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120
				T3M	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125
				TSVS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				TSS	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				TSM	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				TSW	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7,919	3	0	3	62	8,531	3	0	3	67	8,639	3	0	3	67
				LCCO	5,145	1	0	2	40	5,543	1	0	2	43	5,613	1	0	2	44
					5,139	3	0	3	40	5,536	3	0	3	43	5,606	3	0	3	44

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a [shaded background](#). DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a [shaded background](#)¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire.
Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocell receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



D-Series Size 0 LED Area Luminaire



Catalog Number
Notes
Type

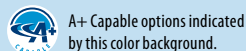
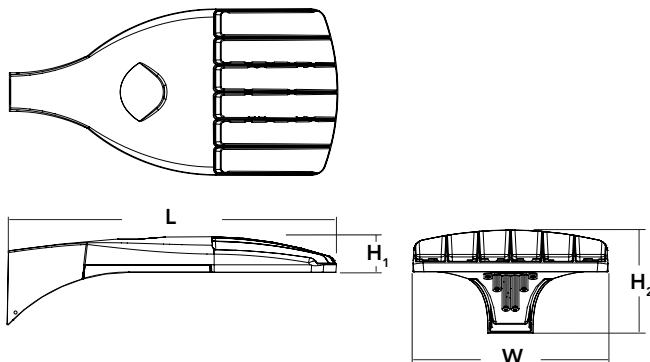
Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Specifications

EPA:	0.95 ft ² (.09 m ²)
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height ₁ :	3" (7.62 cm)
Height ₂ :	7" (17.8 cm)
Weight (max):	16 lbs (7.25 kg)



Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED					
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	Forward optics P1 P4 P7 P2 P5 P3 P6 Rotated optics P10' P12' P11' P13'	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control ² LCCO Left corner cutoff ² RCCO Right corner cutoff ²	MVOLT ^{3,4} 120 ⁴ 208 ⁴ 240 ⁴ 277 ⁴ 347 ^{4,5} 480 ^{4,5}	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ⁶ RPUMBA Round pole universal mounting adaptor ⁶ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁷

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ^{8,9} PIRHN Network, high/low motion/ambient sensor ¹⁰ PER NEMA twist-lock receptacle only (control ordered separate) ¹¹ PER5 Five-pin receptacle only (control ordered separate) ^{11,12} PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) ^{11,12} DMG 0-10V dimming extend out back of housing for external control (control ordered separate)	Shipped installed HS House-side shield ¹⁶ SF Single fuse (120, 277, 347V) ⁴ DF Double fuse (208, 240, 480V) ⁴ L90 Left rotated optics ¹ R90 Right rotated optics ¹ DDL Diffused drop lens ¹⁶ Shipped separately BS Bird spikes ¹⁷ EGS External glare shield ¹⁷	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



Ordering Information

Accessories

Ordered and shipped separately.

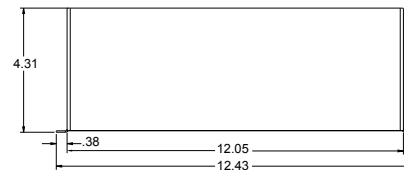
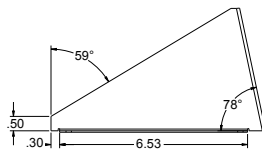
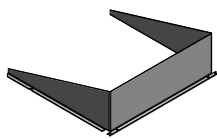
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹⁸
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹⁸
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹⁸
DSHORT SBK U	Shorting cap ¹⁸
DSX0HS 20C U	House-side shield for P1,P2,P3 and P4 ¹⁶
DSX0HS 30C U	House-side shield for P10,P11,P12 and P13 ¹⁶
DSX0HS 40C U	House-side shield for P5,P6 AND P7 ¹⁶
DSX0DDL U	Diffused drop lens (polycarbonate) ¹⁶
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) ¹⁹
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ¹⁹

For more control options, visit [DTL](#) and [ROAM](#) online.
Link to [nLight Air 2](#)

NOTES

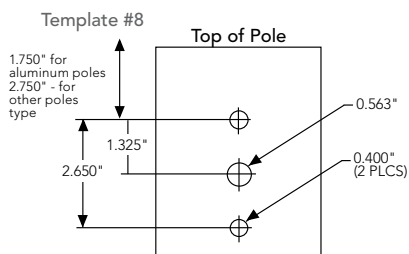
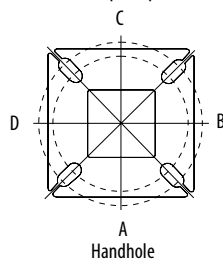
- 1 P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- 2 Not available with HS or DDL.
- 3 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 4 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 5 Not available in P4, P7 or P13. Not available with BL30, BL50 or PNMT options.
- 6 Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANSI C136.31.
- 7 Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- 8 Must be ordered with PIRHN.
- 9 Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- 10 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- 11 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- 12 If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- 13 Reference Motion Sensor table on page 3.
- 14 Reference PER Table on page 3 to see functionality.
- 15 Not available with other dimming controls options.
- 16 Not available with BLC, LCCO and RCCO distribution.
- 17 Must be ordered with fixture for factory pre-drilling.
- 18 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- 19 For retrofit use only.

EGS – External Glare Shield



Drilling

HANDHOLE ORIENTATION (from top of pole)



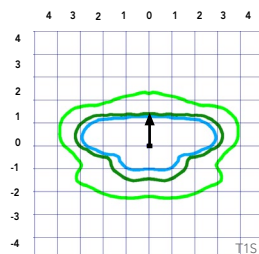
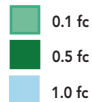
Tenon Mounting Slipfitter

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

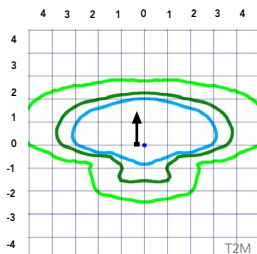
Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

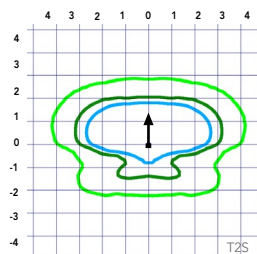
LEGEND



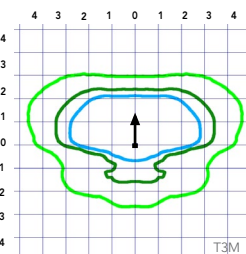
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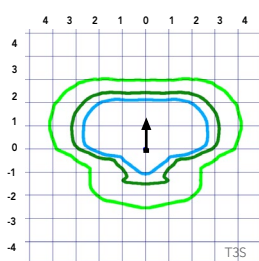
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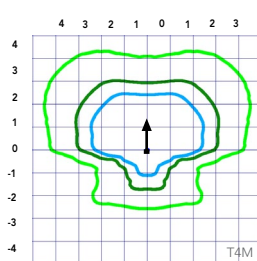
Test No. LTL23457P25 tested in accordance with IESNA LM-79-08.



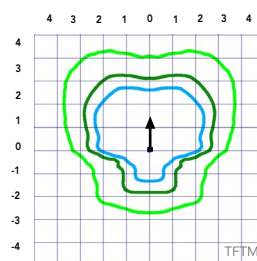
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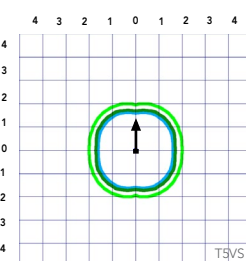
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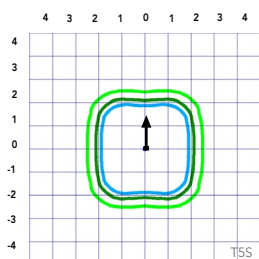
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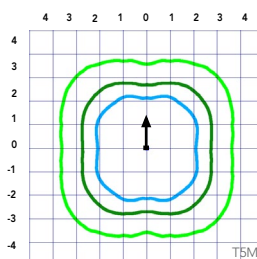
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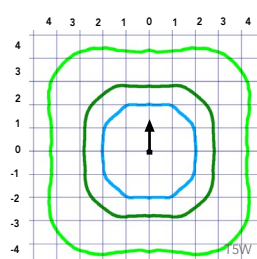
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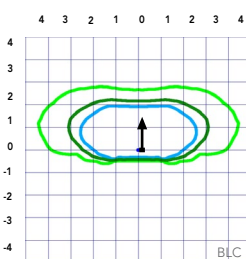
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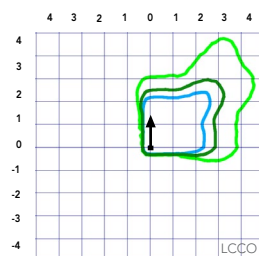
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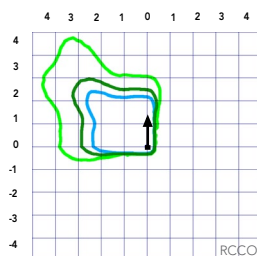
Test No. LTL23451P25 tested in accordance with IESNA LM-79-08.



Test No.



Test No.



Test No.

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use with separate Dusk to Dawn or timer.

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBOR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	20	530	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
				T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
				T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
				T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
				T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
				TSVS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				TSS	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				TSM	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				TSW	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
				T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124
				T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125
				T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
				T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
				TSVS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				TSS	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				TSM	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				TSW	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
				T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
				T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
				T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
				T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
				TSVS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				TSS	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				TSM	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				TSW	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
				T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
				T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
				T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
				T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
				TSVS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				TSS	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				TSM	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				TSW	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
					5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				TSVS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				TSS	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				TSM	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				TSW	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				TSVS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				TSS	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				TSM	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				TSW	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				TSVS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				TSS	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				TSM	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				TSW	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
					10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																			
Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	30	530	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138
				T2S	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138
				T2M	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140
				T3S	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136
				T3M	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141
				TSVS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				TSS	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				TSM	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				TSW	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116
				LCCO	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83
				RCCO	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83
P11	30	700	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130
				T2S	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129
				T2M	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132
				T3S	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127
				T3M	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133
				TSVS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				TSS	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				TSM	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				TSW	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109
				LCCO	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78
				RCCO	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78
P12	30	1050	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127
				T2S	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127
				T2M	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129
				T3S	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125
				T3M	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130
				TSVS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				TSS	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				TSM	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				TSW	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107
				LCCO	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76
				RCCO	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76
P13	30	1300	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123
				T2S	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122
				T2M	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125
				T3S	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120
				T3M	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125
				TSVS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				TSS	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				TSM	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				TSW	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7,919	3	0	3	62	8,531	3	0	3	67	8,639	3	0	3	67
				LCCO	5,145	1	0	2	40	5,543	1	0	2	43	5,613	1	0	2	44
					5,139	3	0	3	40	5,536	3	0	3	43	5,606	3	0	3	44

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a [shaded background](#). DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a [shaded background](#)¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire.
Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

