

NEW SERVICE PANEL TP3, 1 PH, 3 WIRE, 120/240 VOLTS 200 AMP MAIN CB
MIN INTERRUPTING RATING 10k RMS SYM AMPS LOCATION: RACE/HORSE/SKY NEMA 3R
L-LIGHTS, R-RECEPTACLES, M-MECHANICAL EQUIPMENT, SO-SPACE ONLY, SC-SPARE CIRCUIT, E-EXISTING, G-GFI BREAKER
MLO-MAIN LUGS ONLY, MCB-MAIN CIRCUIT BREAKER, N-NEW

POLE SPACE	CIRCUIT USE	CKT RTRNG	CONNECTED LOAD VA	CKT BKR RTRNG	CIRCUIT USE	POLE SPACE
CKT #	#	A	B		#	#
1	1	---	---	---	---	---
3	3	X	2000	60	R TRAFFIC SIGNAL CABINET	2 2
5	5	L	---	15	R PHOTOCCELL	4 4
7	7	L X	---	---	SO	8
9	9	SC	---	---	SO	10
11	11	X	---	---	SO	12
13	13	SO	---	---	SO	14
15	15	SO	---	---	SO	16

**METER # _____

CONTRACTOR SCHEDULE

CONTRACTOR #	RATING	No. POLES	CKT #S
C1	60	2	SPARE
C2	60	2	SPARE

CONTRACTOR CONTROLLED BY PHOTOCCELL MOUNTED ON SERVICE PEDESTAL. MOUNT PHOTOCCELL SO THAT IT IS FACING AWAY FROM ONCOMING TRAFFIC. PROVIDE BYPASS SWITCH MOUNTED WITHIN SERVICE PEDESTAL TO OVERRIDE PHOTOCCELL FOR TESTING.
* PROVIDE NEW BREAKER AS INDICATED

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NEW SERVICE PANEL TP4, 1 PH, 3 WIRE, 120/240 VOLTS 200 AMP MAIN CB
MIN INTERRUPTING RATING 10k RMS SYM AMPS LOCATION: HORSE DR. NEMA 3R
L-LIGHTS, R-RECEPTACLES, M-MECHANICAL EQUIPMENT, SO-SPACE ONLY, SC-SPARE CIRCUIT, E-EXISTING, G-GFI BREAKER
MLO-MAIN LUGS ONLY, MCB-MAIN CIRCUIT BREAKER, N-NEW

POLE SPACE	CIRCUIT USE	CKT RTRNG	CONNECTED LOAD VA	CKT BKR RTRNG	CIRCUIT USE	POLE SPACE
CKT #	#	A	B		#	#
1	1	---	---	---	---	---
3	3	X	2000	60	R TRAFFIC SIGNAL CABINET	2 2
5	5	L	---	15	R PHOTOCCELL	4 4
7	7	L X	---	---	SO	8
9	9	SC	---	---	SO	10
11	11	X	---	---	SO	12
13	13	SO	---	---	SO	14
15	15	SO	---	---	SO	16

**METER # _____

CONTRACTOR SCHEDULE

CONTRACTOR #	RATING	No. POLES	CKT #S
C1	60	2	SPARE
C2	60	2	SPARE

CONTRACTOR CONTROLLED BY PHOTOCCELL MOUNTED ON SERVICE PEDESTAL. MOUNT PHOTOCCELL SO THAT IT IS FACING AWAY FROM ONCOMING TRAFFIC. PROVIDE BYPASS SWITCH MOUNTED WITHIN SERVICE PEDESTAL TO OVERRIDE PHOTOCCELL FOR TESTING.
* PROVIDE NEW BREAKER AS INDICATED

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Streetlight Circuit Capacity Verification for Circuit "SP1-8"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 150 Watt Sits @	0.72 AMPS/ea	0	AMPS
5	0	Number of 150 Watt Sits @	0.72 AMPS/ea	0	AMPS		
6	9	Number of 250 Watt Sits @	1.20 AMPS/ea	10.8	AMPS		
7	0	Number of 400 Watt Sits @	1.92 AMPS/ea	0	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	10.8	AMPS			
		Remaining Available Load (4 minus 8)	37.2	AMPS			

Streetlight Circuit Capacity Verification for Circuit "SP1-9"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 150 Watt Sits @	0.72 AMPS/ea	0	AMPS
5	0	Number of 150 Watt Sits @	0.72 AMPS/ea	0	AMPS		
6	9	Number of 250 Watt Sits @	1.20 AMPS/ea	10.8	AMPS		
7	0	Number of 400 Watt Sits @	1.92 AMPS/ea	0	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	10.8	AMPS			
		Remaining Available Load (4 minus 8)	37.2	AMPS			

Streetlight Circuit Capacity Verification for Circuit "SP2-9"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 100 Watt Sits @	AMPS/ea	0	AMPS
5	0	Number of 100 Watt Sits @	AMPS/ea	0	AMPS		
6	18	Number of 250 Watt Sits @	1.20 AMPS/ea	21.6	AMPS		
7	6	Number of 400 Watt Sits @	1.92 AMPS/ea	11.52	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	33.12	AMPS			
		Remaining Available Load (4 minus 8)	11.04	AMPS			

Streetlight Circuit Capacity Verification for Circuit "SP2-13"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 150 Watt Sits @	0.72 AMPS/ea	1.44	AMPS
5	2	Number of 150 Watt Sits @	0.72 AMPS/ea	1.44	AMPS		
6	14	Number of 250 Watt Sits @	1.20 AMPS/ea	16.8	AMPS		
7	4	Number of 400 Watt Sits @	1.92 AMPS/ea	7.68	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	25.8	AMPS			
		Remaining Available Load (4 minus 8)	19.2	AMPS			

Streetlight Circuit Capacity Verification for Circuit "SP3-5"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 150 Watt Sits @	0.72 AMPS/ea	4.32	AMPS
5	6	Number of 150 Watt Sits @	0.72 AMPS/ea	4.32	AMPS		
6	14	Number of 250 Watt Sits @	1.20 AMPS/ea	16.8	AMPS		
7	4	Number of 400 Watt Sits @	1.92 AMPS/ea	7.68	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	28.8	AMPS			
		Remaining Available Load (4 minus 8)	19.2	AMPS			

Streetlight Circuit Capacity Verification for Circuit "SP4-5"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 100 Watt Sits @	AMPS/ea	0	AMPS
5	0	Number of 100 Watt Sits @	AMPS/ea	0	AMPS		
6	12	Number of 250 Watt Sits @	1.20 AMPS/ea	14.4	AMPS		
7	0	Number of 400 Watt Sits @	1.92 AMPS/ea	0	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	14.4	AMPS			
		Remaining Available Load (4 minus 8)	33.5	AMPS			

Streetlight Circuit Capacity Verification for Circuit "SP5-12"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 150 Watt Sits @	0.72 AMPS/ea	4.32	AMPS
5	6	Number of 150 Watt Sits @	0.72 AMPS/ea	4.32	AMPS		
6	0	Number of 250 Watt Sits @	1.20 AMPS/ea	0	AMPS		
7	0	Number of 400 Watt Sits @	1.92 AMPS/ea	0	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	4.32	AMPS			
		Remaining Available Load (4 minus 8)	43.68	AMPS			

Streetlight Circuit Capacity Verification for Circuit "SP6-12"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 100 Watt Sits @	AMPS/ea	11.52	AMPS
5	16	Number of 100 Watt Sits @	AMPS/ea	11.52	AMPS		
6	0	Number of 250 Watt Sits @	1.20 AMPS/ea	0	AMPS		
7	0	Number of 400 Watt Sits @	1.92 AMPS/ea	0	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	11.52	AMPS			
		Remaining Available Load (4 minus 8)	36.48	AMPS			

Streetlight Circuit Capacity Verification for Circuit "TP2-5"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 100 Watt Sits @	AMPS/ea	0	AMPS
5	0	Number of 100 Watt Sits @	AMPS/ea	0	AMPS		
6	11	Number of 250 Watt Sits @	1.20 AMPS/ea	13.2	AMPS		
7	0	Number of 400 Watt Sits @	1.92 AMPS/ea	0	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	13.2	AMPS			
		Remaining Available Load (4 minus 8)	34.8	AMPS			

Streetlight Circuit Capacity Verification for Circuit "TP4-5"

Is there an existing Service Pedestal in the field (not proposed) adjacent to this property that might be able to be used to power this project's streetlights? (Circle) Yes No
Licensed Electrical Contractor must verify.
Install a new service pedestal streetlights? (Circle) No Yes

Service Location: _____

CONTRACTOR (complete if existing service):

Electrical Contractor Name: _____
Contractor Licensed Number: _____
Name and title of person who did Field Testing: _____
I field verified this electrical service for capacity (one must be circled): yes no
Signature _____ Date _____

ENGINEER OF THE OFFSITE PLANS:
Person who did the calculations ANDY BEDORA
Consulting Engineering Firm TJK CONSULTING ENGINEERS

CAPACITY CALCULATIONS

1	2	3	4	Circuit Capacity	60 AMPS
2	Maximum Continuous Current Draw (80%)			48	AMPS
3	Existing Circuit Load (Enter 0 if New)	0	AMPS		
4	Available (2 minus 3)	48	AMPS		

Proposed Luminaire Load to Circuit

5	6	7	8	Number of 100 Watt Sits @	AMPS/ea	0	AMPS
5	0	Number of 100 Watt Sits @	AMPS/ea	0	AMPS		
6	8	Number of 250 Watt Sits @	1.20 AMPS/ea	9.6	AMPS		
7	10	Number of 400 Watt Sits @	1.92 AMPS/ea	19.2	AMPS		
8		Total Proposed additional load (5 + 6 + 7)	28.8	AMPS			
		Remaining Available Load (4 minus 8)	19.2	AMPS			

DRAWN BY: _____ 06/20/2008
DESIGNED BY: _____ 06/20/2008
CHECKED BY: _____ 06/20/2008
PROJECT NO: _____ SCALE: _____
6500
107V3769

DRAWN BY: _____ 06/20/2008
DESIGNED BY: _____ 06/20/2008
CHECKED BY: _____ 06/20/2008
PROJECT NO: _____ SCALE: _____
6500
107V3769

DRAWN BY: _____ 06/20/2