


**PROLOGIS PUYALLUP STE 103**

1601 INDUSTRIAL PARK #103  
PUYALLUP, WA 98387

## FIRE ALARM LEGEND

| Device Legend |                                    |
|---------------|------------------------------------|
|               | Fire Alarm Control Panel           |
|               | Fire Alarm Annunciator             |
|               | Power Supply                       |
|               | Smoke Detector                     |
|               | Pull Station                       |
|               | Relay Module                       |
|               | Tamper Switch                      |
|               | Jockey Pump Controller             |
|               | Wall Mount Strobe                  |
|               | Ceiling Mount Strobe               |
|               | Wall Mount Horn Strobe             |
|               | Ceiling Mount Horn Strobe          |
|               | Mini Horn                          |
|               | Exterior Bell                      |
|               | Fire Pump Controller               |
|               | Weather Proof                      |
|               | Sprinkler Valve Supervisory Switch |
|               | Sprinkler Flow Switch              |
|               | Wall Mounted Smoke Detector        |
|               | Non Addressable Heat Detector      |
|               | Fire Fighter Phone                 |
|               | Hand Set Center                    |
|               | Low Frequency Sounder              |
|               | Mini Module                        |

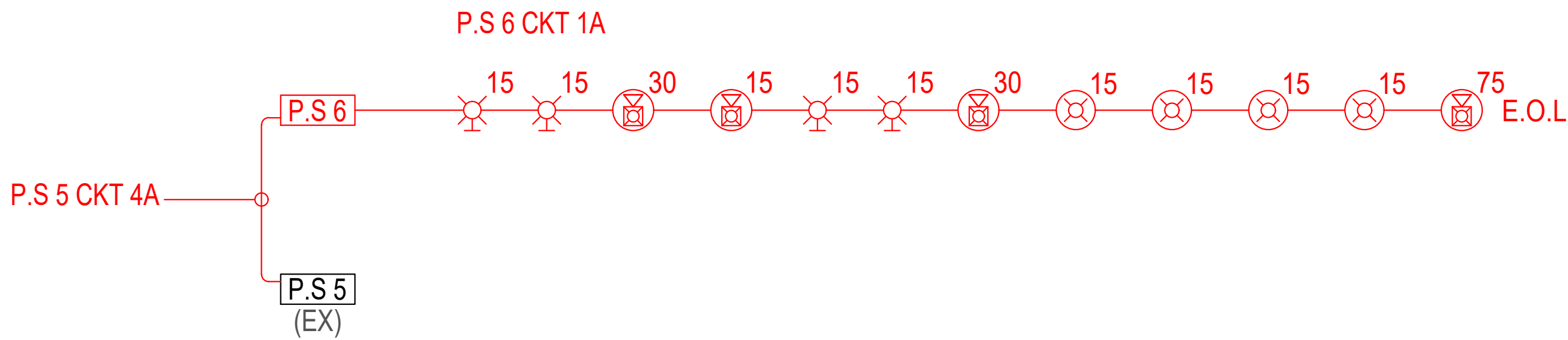
| Wiring Legend |                           |
|---------------|---------------------------|
| #             | Denotes Ckt. Number       |
| A             | 12 Gauge 2 Conductor FPLP |
| B             | 18 Gauge 2 Conductor FPLP |
| C             | 16 Gauge 4 Conductor FPLP |

| Typical Mounting Height                                                           |                                    |
|-----------------------------------------------------------------------------------|------------------------------------|
|  | 60" To $\phi$ AFF                  |
|  | 60" To $\phi$ AFF                  |
|  | 46" To $\phi$ AFF                  |
|  | 48" To $\phi$ AFF                  |
|  | 80" To $\phi$ AFF                  |
|  | 80" To $\phi$ AFF                  |
|  | 80" To $\phi$ AFF                  |
|  | 4"-12"(MAX) To $\phi$ From Ceiling |
|  | 8'-10"(MAX) To $\phi$ From Floor   |

| Notes |  |
|-------|--|
| 1.    |  |
| 2.    |  |
| 3.    |  |
| 4.    |  |

# DRAWING INDEX

|           |                       |
|-----------|-----------------------|
| <u>A1</u> | COVER PAGE            |
| <u>A2</u> | FIRE ALARM NAC LAYOUT |
| <u>A3</u> | FIRE ALARM SLC LAYOUT |



1 FIRE ALARM NAC RISER DIAGRAM  
N.T.S.



SILENT  
KNIGHT

PS6 Power Expander Calculations

Version 02.18.09

Global Project Values:

Project Name: [Prologis Puyallup Suite 103]

Project ID: [ ]

Prepared By: [Ryan Swigart]

Date: [5/6/2023]

Standby Hours: [24]

Alarm Mins: [5]

Derating Factor: [1.2]

Voltage Drop Warning Threshold %: [10]

Panel ID: [PS 6]

Location: [Warehouse]

Model: PS6 Power Expander

Volts: 24 VDC

Max NAC Current: 3.0 Amps

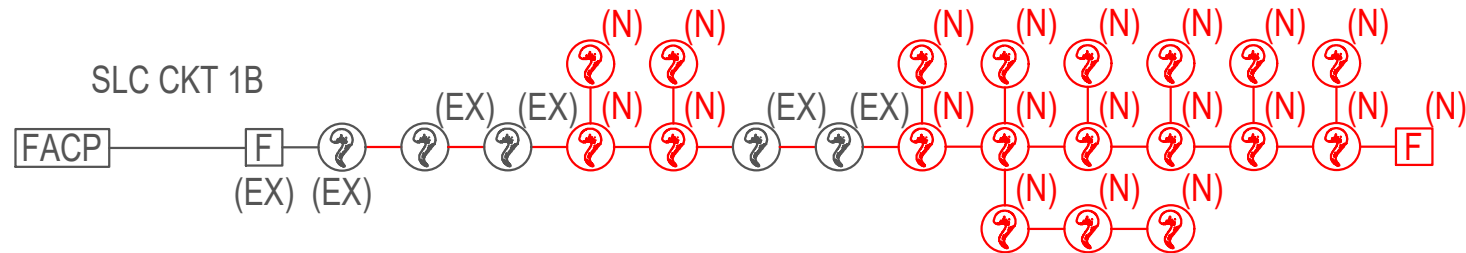
Max Panel Current: 6.0 Amps

| Ckt.#                              | Circuit Name   | Current Draw<br>Standby<br>Alarm | Draw<br>Standby<br>Alarm | Wire AWG &<br>Type                  | Ohms Per<br>1000 Ft. | Length(ft)<br>One-Way | Actual<br>Ohms | Volts @<br>EOL | %Drop |
|------------------------------------|----------------|----------------------------------|--------------------------|-------------------------------------|----------------------|-----------------------|----------------|----------------|-------|
| PS6                                | PS6 Pwr Module | 1                                | 0.075 0.205              |                                     |                      |                       |                |                |       |
| NAC #1                             | PS6 Circuit 1  | 0.000                            | 1.128                    | #12 Solid                           | 1.59                 | 300                   | 0.95           | 19.32          | 5.28% |
| NAC #2                             | PS6 Circuit 2  | 0.000                            | 0.000                    | #12 Solid                           | 1.59                 |                       | 0.00           | 20.40          | 0.00% |
| NAC #3                             | PS6 Circuit 3  | 0.000                            | 0.000                    | #12 Solid                           | 1.59                 |                       | 0.00           | 20.40          | 0.00% |
| NAC #4                             | PS6 Circuit 4  | 0.000                            | 0.000                    | #12 Solid                           | 1.59                 |                       | 0.00           | 20.40          | 0.00% |
| NAC #5                             | PS6 Circuit 5  | 0.000                            | 0.000                    | #12 Solid                           | 1.59                 |                       | 0.00           | 20.40          | 0.00% |
| Total Standby Current (Amps)       |                | 0.075                            | 1.333                    | Total Alarm Current (Amps)          |                      |                       |                |                |       |
| Standby Time In Hours              |                | 24                               | 0.083                    | Alarm Time In Minutes / 60 (5 Mins) |                      |                       |                |                |       |
| Total Standby AH Required          |                | 1.800                            | 0.111                    | Total Alarm AH Required             |                      |                       |                |                |       |
| Total Combined AH Required         |                | 1.91                             |                          |                                     |                      |                       |                |                |       |
| Multiply By The Derating Factor    |                | 1.20                             |                          |                                     |                      |                       |                |                |       |
| Minimum Battery Amp-Hours Required |                | 2.29                             |                          |                                     |                      |                       |                |                |       |
| Battery Amp-Hours To Be Installed  |                | 8.00                             |                          |                                     |                      |                       |                |                |       |

Wire resistances are based upon an ambient temperature of 72 degrees F. Because of the minimal difference between solid and stranded wire no differential was made.

Configure Circuits

Print Page



2 FIRE ALARM SLC RISER DIAGRAM  
N.T.S.

SILENT KNIGHT

Circuit Configuration

Project Info: 0001

Project Name: Prologis Puyallup Suite 103

Prepared By: Ryan Swigart

Project ID: 0

Date: 6/6/2023

Ckt. Number: NAC #1

Ckt. Name: PS6 Circuit 1

Panel ID: P S 6

Max Circuit Current: 3 Amps

| Qty    | Device                                 | Current Draw Each Standby | Alarm | Current Draw Total Standby | Alarm |
|--------|----------------------------------------|---------------------------|-------|----------------------------|-------|
| 4      | System Sensor P2RL Horn/Strobe (15cd)  | 0.000                     | 0.083 | 0.000                      | 0.330 |
| 1      | System Sensor PC2RL Horn/Strobe (15cd) | 0.000                     | 0.107 | 0.000                      | 0.107 |
| 2      | System Sensor PC2RL Horn/Strobe (30cd) | 0.000                     | 0.135 | 0.000                      | 0.270 |
| 1      | System Sensor PC2RL Horn/Strobe (75cd) | 0.000                     | 0.179 | 0.000                      | 0.179 |
| 4      | System Sensor PC2RL Strobe (15cd)      | 0.000                     | 0.060 | 0.000                      | 0.240 |
| Totals |                                        |                           |       | 0.000                      | 1.126 |

Ckt. Number: NAC #2

Ckt. Name: PS6 Circuit 2

Panel ID: P S 6

Max Circuit Current: 3 Amps

| Qty    | Device | Current Draw Each Standby | Alarm | Current Draw Total Standby | Alarm |
|--------|--------|---------------------------|-------|----------------------------|-------|
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        |        |                           |       | 0.000                      | 0.000 |
| Totals |        |                           |       | 0.000                      | 0.000 |

Ckt. Number: NAC #3

Ckt. Name: PS6 Circuit 3

Panel ID: P S 6

Max Circuit Current: 3 Amps

| Qty    | Device | Current Draw Each Standby | Alarm | Current Draw Total Standby | Alarm |
|--------|--------|---------------------------|-------|----------------------------|-------|
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        |        |                           |       | 0.000                      | 0.000 |
| Totals |        |                           |       | 0.000                      | 0.000 |

Ckt. Number: NAC #4

Ckt. Name: PS6 Circuit 4

Panel ID: P S 6

Max Circuit Current: 3 Amps

| Qty    | Device | Current Draw Each Standby | Alarm | Current Draw Total Standby | Alarm |
|--------|--------|---------------------------|-------|----------------------------|-------|
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        |        |                           |       | 0.000                      | 0.000 |
| Totals |        |                           |       | 0.000                      | 0.000 |

Ckt. Number: NAC #5

Ckt. Name: PS6 Circuit 5

Panel ID: P S 6

Max Circuit Current: 3 Amps

| Qty    | Device | Current Draw Each Standby | Alarm | Current Draw Total Standby | Alarm |
|--------|--------|---------------------------|-------|----------------------------|-------|
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        | Unused | 0.000                     | 0.000 | 0.000                      | 0.000 |
|        |        |                           |       | 0.000                      | 0.000 |
| Totals |        |                           |       | 0.000                      | 0.000 |

[illegible]

## 4 OPERATIONS MATRIX

**OLSEN**  
**ELECTRIC INC.**  
Kevin Olsen  
Level III, ET (Engineering Technician)  
Certification # 145198 Exp. 7/01/2023

### 3 BATTERY CALCULATIONS

**City of Puyallup  
Fire  
REVIEWED  
FOR  
COMPLIANCE**



THE APPROVED CONSTRUCTION  
PLANS AND ALL ENGINEERING  
MUST BE POSTED ON THE JOB AT  
ALL INSPECTIONS IN A VISIBLE AND  
READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

**City of Puyallup**  
**Development & Permitting Services**  
**ISSUED PERMIT**

|             |              |
|-------------|--------------|
| Building    | Planning     |
| Engineering | Public Works |
| Fire        | Traffic      |

**Q**LTSEN  
**E**LECTRIC INC.

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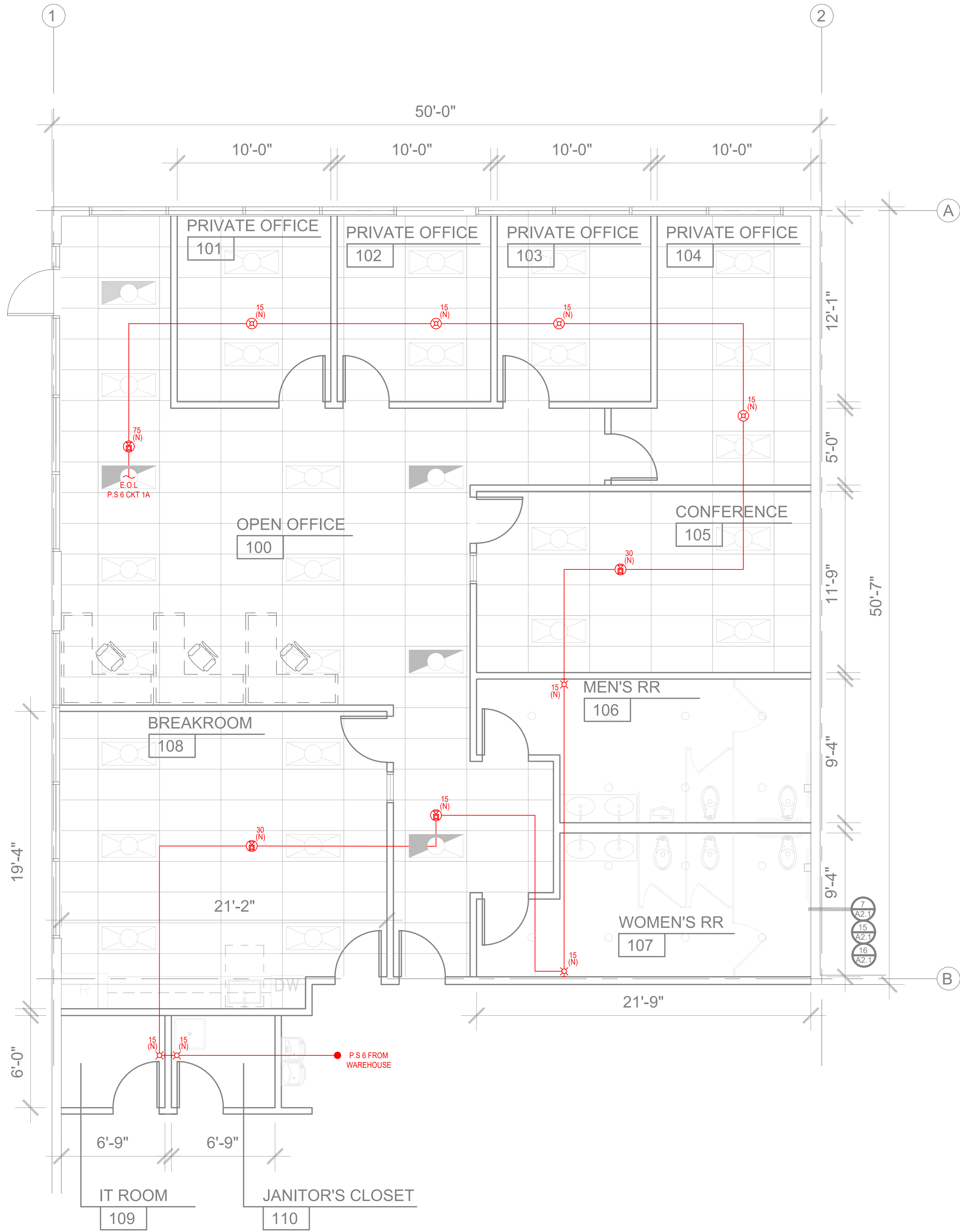
*Commercial ~ Industrial*

Phone (253)-872-1905      325 Washington Ave S #91  
Fax (253)-269-0268      Kent, WA 98032

# PROLOGIS PUYALLUP STE 103

601 INDUSTRIAL PARK  
PUYALLUP, WA 98387

[illegible]



1 FIRE ALARM OFFICE NAC LAYOUT  
1/4"=1'-0"

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

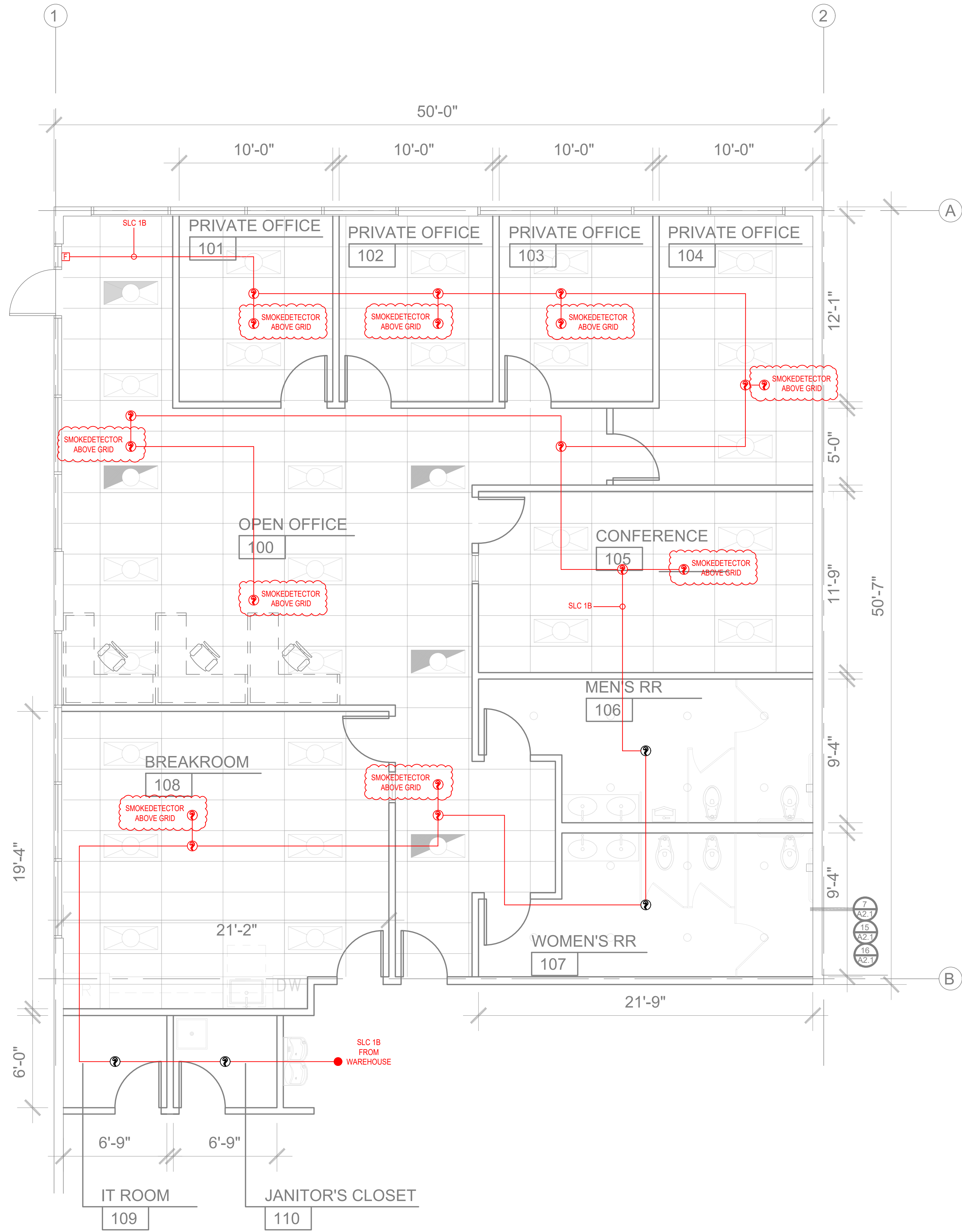
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| Revisions:       |        |    |             |  |
|------------------|--------|----|-------------|--|
| Rev              | Date   | By | Description |  |
| 1                | 6/5/23 | RS | FIRE ALARM  |  |
| 2                | 7/7/23 | MM | FIRE ALARM  |  |
| 7/7/2023         |        |    |             |  |
| Drawn By: MM     |        |    |             |  |
| Sheet Number: .. |        |    |             |  |
| FA2              |        |    |             |  |



1 FIRE ALARM OFFICE SLC LAYOUT  
1/4"=1'-0"

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

|             |              |
|-------------|--------------|
| Building    | Planning     |
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7/7/2023  
Drawn By: MM  
Sheet Number: .

**FA3**