

ONE EIGHTH INCH = ONE FOOT

ONE QUARTER INCH = ONE FOOT

ONE HALF INCH = ONE FOOT

THREE QUARTERS INCH = ONE FOOT

ONE INCH = ONE FOOT

ONE AND ONE HALF INCHES = ONE FOOT

THREE INCHES = ONE FOOT

LIGHTING SYMBOLS	
SYMBOL	DESCRIPTION
	WALL MOUNTED LIGHTING OUTLET AND FIXTURE
	RECESSED SQUARE LIGHTING OUTLET AND FIXTURE
	RECESSED ROUND LIGHTING OUTLET AND FIXTURE
	MONOPOINT LIGHTING OUTLET AND FIXTURE
	FLUORESCENT LIGHTING OUTLET AND FIXTURE. X-DENOTES EMERGENCY OPERATION
	PENDANT MOUNTED LIGHTING OUTLET AND FIXTURE
	GRID MOUNTED RECESSED LIGHTING OUTLET AND FIXTURE. X-DENOTES EMERGENCY OPERATION
	EXIT LIGHTING OUTLET AND FIXTURE. WALL MOUNTED, DIRECTIONAL ARROWS AS REQUIRED OR AS NOTED
	POLE LIGHT (SINGLE LUMINAIRE)
	EMERGENCY LIGHTING OUTLET AND FIXTURE WITH (2) HEADS

**FIRE ALARM SYMBOLS LIST GENERAL NOTES:**

1. HEIGHTS INDICATED ARE TO CENTER OF ITEM.
2. REFER TO ELECTRICAL SYMBOLS LIST ON THIS SHEET FOR POWER AND CONNECTION SYMBOLS.
3. NOTE: ALL SYMBOLS IDENTIFIED MAY NOT BE USED ON PLANS.

OCCUPANCY SCHEDULE GENERAL NOTES:

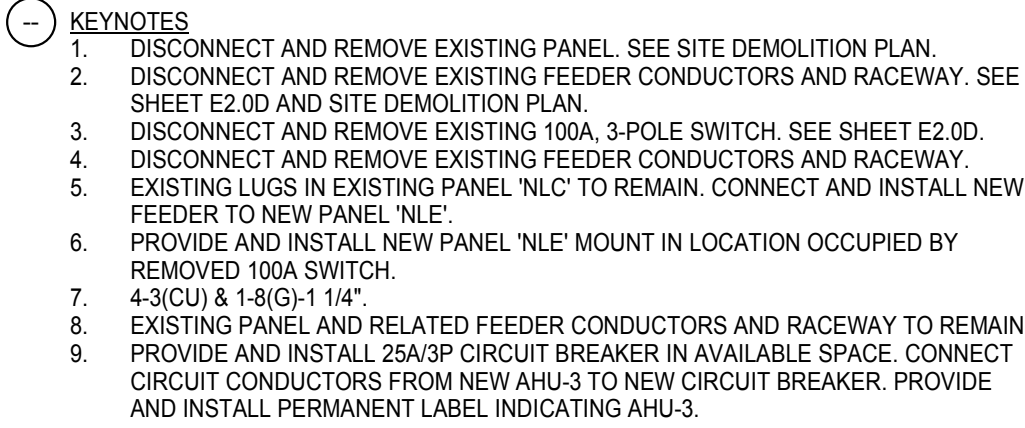
1. HEIGHTS INDICATED ARE TO CENTER OF DEVICE.
2. REFER TO ELECTRICAL SYMBOLS LIST ON SHEET \_\_\_\_ FOR POWER AND CONNECTION SYMBOLS.

\* SEE SPECIFICATION SECTION 260533 FOR ADDITIONAL CONDUIT REQUIREMENTS

1. HEIGHTS INDICATED ARE TO CENTER OF ITEM.  
2. EXISTING ELECTRICAL ITEMS INDICATED WITH SHORT DASHED LINES  
3. NOTE: ALL SYMBOLS IDENTIFIED MAY NOT BE USED ON PLANS.

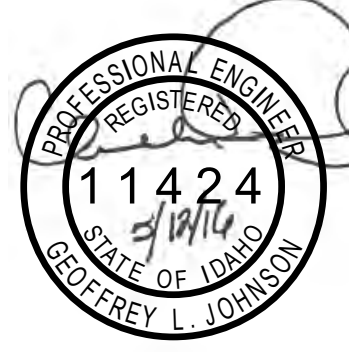
GENERAL NOTES:

- [illegible]



**Eidam Associates**  
Consulting Engineers

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Suite 215 F: 208 / 345 / 7173  
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**Z6A.**

408 E. Parkcenter Blvd, Suite 205, Boise Idaho 83706

PROJECT TITLE		
VAMC BUILDING 88		
VOLUME B		
BUILDING NUMBER	CHECKED BY	DRAWN BY
88	DAN	CRH
LOCATION		
BOISE, IDAHO		

DATE \_\_\_\_\_

05/13/2016

00/10/2010

PROJECT NO. \_\_\_\_\_

531-322

551-522

DRAWING NO.

E00

LO.0

FOR CONSTRUCTION



DEPARTMENT OF VETERANS AFFAIRS



THREE INCHES = ONE FOOT  
ONE AND ONE HALF INCHES = ONE FOOT  
ONE INCH = ONE FOOT  
THREE QUARTERS INCH = ONE FOOT  
ONE HALF INCH = ONE FOOT  
THREE EIGHTHS INCH = ONE FOOT  
ONE QUARTER INCH = ONE FOOT  
ONE EIGHTH INCH = ONE FOOT

## GUIDING PRINCIPLES CHECKLIST

Green Globes for New Construction and Major Renovations

### Introduction:

The attached Green Globes for New Construction and Major Renovations (GG-NC) points are mandatory for a building to be considered sustainable per the *Federal Guiding Principles for High Performance Sustainable Buildings*.

### Application:

- Major Construction and Renovation (\$10 million or higher):** checklist must be completed after the certification is awarded (post-construction). Certification by a third-party (LEED or Green Globes) is required.
- Minor Construction and Renovation (less than \$10 million):** checklist must be completed after the certification is awarded (post-construction). Verification by a third-party (LEED, Green Globes, or Professional Engineer's stamp) is required.

### Completion:

The checklist may be completed by the contracted project team, but must be verified by the VA Project Manager. The signed version must be retained in the project record.

### Reporting:

A copy of this checklist, signed by the VA Project Manager, must be submitted to:

- Major Construction:** Facilities Standards Service (OCFM), [SustainableDesign@va.gov](mailto:SustainableDesign@va.gov)
- Minor Construction:** VA Office of Asset Enterprise Management, [GreenVA@va.gov](mailto:GreenVA@va.gov)

for annual reporting purposes. The checklist must be submitted by December 1 of the calendar year in which VA received the third-party certification.

### VERIFICATION

I hereby verify that this project, VA BUILDING 88 EXPANSION, meets all of the required Green Globes for New Construction and Major Renovation points (attached) and therefore complies with the *Federal Guiding Principles for High Performance Sustainable Buildings*.

PRINTED NAME: \_\_\_\_\_ DATE: 2/24/2016  
VA PROJECT MANAGER TITLE: \_\_\_\_\_  
VA PROJECT MANAGER EMAIL: \_\_\_\_\_  
VA PROJECT MANAGER PHONE NUMBER: \_\_\_\_\_

Department of Veterans Affairs Last Updated: February 24, 2016

PROJECT TITLE: VA BUILDING 88 EXPANSION

FACILITY NAME: BOISE VAMC

GG-NC Credit	Description	Guiding Principle
<b>Project Management, Policies, and Practices</b>		
<input type="checkbox"/> 3.1.1.4	Capital Asset Programming Plan and Business Case	I.A.2
<b>Project Management, Policies, and Practices</b>		
<input type="checkbox"/> 3.1.1.1	Integrated Design Process (IDP) Pre-Design Meetings	I.A.1
<input type="checkbox"/> 3.1.1.2	IDP Performance Goals	I.A.3
<input type="checkbox"/> 3.1.1.3	IDP Progress Meetings for Design	I.A.1
<input type="checkbox"/> 3.1.2.1	Environmental Management System	I.A.3, I.A.4, I.B
<input type="checkbox"/> 3.1.2.4.1	Indoor Air Quality during Construction	IV.E
<input type="checkbox"/> 3.1.3.1	Pre-Commissioning	I.B
<input type="checkbox"/> 3.1.3.2.1	Whole Building Commissioning	I.B
<b>Site</b>		
<input type="checkbox"/> 3.2.4.1	Landscaping and Irrigation Plan	III.D
<b>Energy</b>		
<input checked="" type="checkbox"/> 3.3.1.2	Energy Performance - Path B: ASHRAE 90.1-2010 (minimum requirement 30%)	II.A.1, II.A.2
<input type="checkbox"/> 3.3.3.1.1	Metering (building level)	II.C
<input type="checkbox"/> 3.3.9.1	On-Site Renewable Energy	II.B
<b>Water</b>		
<input type="checkbox"/> 3.4.1	Water Consumption	III.A, III.D
<input type="checkbox"/> 3.4.2	Cooling Towers	III.C
<input type="checkbox"/> 3.4.3	Boilers and Water Heaters	III.C
<input type="checkbox"/> 3.4.4.2	Laboratory and Medical Equipment	III.D
<input type="checkbox"/> 3.4.4.3	Laundry Equipment	III.A, III.D
<input type="checkbox"/> 3.4.4.4	Special Water Features	III.A
<input type="checkbox"/> 3.4.5	Alternate Sources of Water	III.A
<input type="checkbox"/> 3.4.7.1	Sub-metering of Water Intensive Indoor Applications	III.A
<input type="checkbox"/> 3.4.7.2	Sub-metering of Potable Water Used for Irrigation	III.B.1
<input type="checkbox"/> 3.4.7.3	Water Meter Integration	III.A, III.B.1
<input type="checkbox"/> 3.4.8	Irrigation	III.B.1

Department of Veterans Affairs Last Updated: February 24, 2016

<b>Resources, Building Materials, and Solid Waste</b>		
<input type="checkbox"/> 3.5.1	Building Assembly (select either Path A or Path B)	
<input type="checkbox"/> 3.5.1.1	Path A: Performance Path for Building Assemblies	V.C
<input type="checkbox"/> 3.5.1.2	Path B: Prescriptive Path for Building Assemblies	V.C, V.A, V.B
<input type="checkbox"/> 3.5.2	Interior Fit-out, Furnishings, Finishes (Select either Path A or Path B)	
<input type="checkbox"/> 3.5.2.1	Path A: Performance Path for Interior Fit-outs	V.C
<input type="checkbox"/> 3.5.2.2	Path B: Prescriptive Path for Interior Fit-outs	V.C, V.A, V.B
<input type="checkbox"/> 3.5.4.1.1	Demolition and Construction Waste (50% minimum requirement)	V.D
<input type="checkbox"/> 3.5.4.1.2	Reuse of Existing Materials for Site Development and Landscaping	V.D
<input type="checkbox"/> 3.5.4.2	Operational Waste	V.D
<input type="checkbox"/> 3.5.5	Building Service Life Plan	I.A.4
<input type="checkbox"/> 3.5.10.2	Vapor Retarders	IV.B

<b>Emissions and Other Impacts</b>		
<input type="checkbox"/> 3.6.2.2	Ozone-Depleting Potential	V.E
<input type="checkbox"/> 3.6.2.3	Global Warming Potential	V.E

<b>Indoor Environment</b>		
<input type="checkbox"/> 3.7.1.1.1	Ventilation Air Quantity	IV.A
<input type="checkbox"/> 3.7.2.1	Volatile Organic Compounds	IV.D
<input type="checkbox"/> 3.7.2.2	Leakage, Condensation, and Humidity	IV.B
<input type="checkbox"/> 3.7.2.9.1	Tobacco Smoke Control - Minimum Distance of 25 feet	IV.F
<input type="checkbox"/> 3.7.2.9.2	Tobacco Smoke Control - Signage	IV.F
<input checked="" type="checkbox"/> 3.7.3.1.1	Daylighting (minimum requirement 75%)	IV.C
<input type="checkbox"/> 3.7.4.2	Thermal Comfort Design (minimum requirement ASHRAE 55-2004)	IV.A

Department of Veterans Affairs Last Updated: February 24, 2016

## COMcheck Software Version 4.0.2.5 Interior Lighting Compliance Certificate

### Project Information

Energy Code: 2012 IECC  
Project Title: VAMC BUILDING 88 EXPANSION  
Project Type: Addition

Construction Site: Boise, ID

Owner/Agent:

Designer/Contractor:

### Allowed Interior Lighting Power

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B X C)	E Allowed Watts (B X C)
1 Health care clinic	2605	1	2605	2605
Total Allowed Watts = 2605				

### Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt	E (C X D)
1 Health care clinic				
Linear Fluorescent 1: BP1: 2 Lamp Bare Fluorescent 48" T8 32W Electronic	2	4	56	224
Linear Fluorescent 2: BP1 X: 2 Lamp Bare Fluorescent 48" T8 32W Electronic	2	2	56	112
LED 1: EX1: Exit Sign, Other	1	1	3	3
Emergency Exit Sign, Battery or Emergency Lighting				
LED 2: Q1: 2x2 G16 LED Other	2	10	20	200
LED 3: Q1X: 2x2 G16 LED w/Batt. Other	2	3	20	60
LED 4: Q2: 2x4 G16 LED Other	2	3	30	90
LED 5: Q2X: 2x4 G16 LED w/Batt. Other	2	2	30	60
LED 6: Q3: 2x2 G16 LED Other	2	1	30	30
LED 7: R1: Recessed LED Other	1	6	11	66
LED 8: R1X: Recessed Round LED PAR 18W	1	5	18	30
LED 9: R1X: Recessed Round LED w/Batt. LED PAR 18W	1	3	18	18
LED 10: W1: LED Vandy LED Linear 22W	1	4	22	88
LED 11: W1X: LED Wall Wash Other	1	4	28	104
Total Proposed Watts = 1154				

Interior Lighting PASSES: Design 56% better than code

### Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.2.5 and to comply with the mandatory requirements listed in the Inspection Checklist.

Name : Title

Signature

Date

## COMcheck Software Version 4.0.2.5 Exterior Lighting Compliance Certificate

### Project Information

Energy Code: 2012 IECC  
Project Title: VAMC BUILDING 88 EXPANSION  
Project Type: Addition  
Exterior Lighting Zone: 4 (high activity metropolitan commercial district)

Construction Site: Boise, ID

Owner/Agent:

Designer/Contractor:

### Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Entry canopy	92 ft <sup>2</sup>	0.4	Yes	37
Main entry	6 ft of door	30	Yes	180
Walkway >= 10 feet wide	360 ft <sup>2</sup>	0.2	Yes	72
Total Tradable Watts (a) = 269				
Total Allowed Watts = 269				
Total Allowed Supplemental Watts (b) = 1300				

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 1300 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

### Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt	E (C X D)
Entry canopy (92 ft <sup>2</sup> ) Tradable Wattage				
LED 1: R1X: Recessed Round LED PAR 18W	1	1	18	18
LED 2: R1X: Recessed Round LED w/Batt. LED PAR 18W	1	1	18	18
Main entry (6 ft of door width) Tradable Wattage				
LED 3: W1: LED Wall Wash LED Other Fixture Unit 20W	1	2	28	56
Walkway >= 10 feet wide (360 ft <sup>2</sup> ) Tradable Wattage				
LED 4: P1: Pole Mounted LED Other	2	1	74	74
Total Tradable Proposed Watts = 166				

Exterior Lighting PASSES: Design 90% better than code

### Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.2.5 and to comply with the mandatory requirements listed in the Inspection Checklist.

Name : Title

Signature

Date

COMcheck NOTE:  
LUMINAIRE QUANTITIES INDICATED WITHIN THIS REPORT ARE NOT TO BE USED BY CONTRACTORS, SUPPLIERS OR ANY OTHER ENTITY FOR ESTIMATING OR TAKEOFF PURPOSES. REFER TO THE LIGHTING PLAN (S) FOR LUMINAIRE TYPES AND QUANTITIES.



Architects and Planners, Chartered

408 E. Parkcenter Blvd, Suite 205, Boise Idaho 83706

## COMcheck Software Version 4.0.2.5 Inspection Checklist

Energy Code: 2012 IECC

Requirements: 0.0% were addressed directly in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR4) <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 (PR8) <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 (PR9) <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 (EL22) <sup>1</sup>	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 (EL23) <sup>1</sup>	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 (EL15) <sup>1</sup>	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2 (EL16) <sup>1</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 (EL17) <sup>1</sup>	Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2 (EL18) <sup>1</sup>	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2 (EL20) <sup>1</sup>	Primary daylighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2 (EL21) <sup>1</sup>	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 (EL23) <sup>1</sup>	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 (EL4) <sup>1</sup>	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 (EL19) <sup>1</sup>	Fluorescent luminaires with odd numbered lamp configurations that are within 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4 (EL6) <sup>1</sup>	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 (EL24) <sup>1</sup>	Exterior grounds lighting over 100 W provides >60 lm/W unless on motion sensor or fixture is exempt from scope of code or from external LPD.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 (EL8) <sup>1</sup>	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

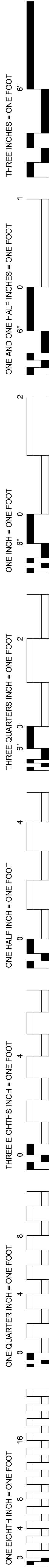
Section # & Req ID	Final Inspection	Complies?	Comments/Assumptions
C406.2.5 (F116) <sup>1</sup>	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.3 (F117) <sup>1</sup>	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3.2 (F118) <sup>1</sup>	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting Fixture schedule for values.
C405.6.2 (F119) <sup>1</sup>	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting Fixture schedule for values.
C406.3 (F133) <sup>1</sup>	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406.3 (F148) <sup>1</sup>	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 (F134) <sup>1</sup>	Efficient HVAC performance, efficient lighting systems, or on-site supply of renewable energy consistent with what is shown the approved plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

FOR CONSTRUCTION

DRAWING TITLE <b>LIGHTING COMPLIANCE CERTIFICATE</b>	PROJECT TITLE <b>VAMC BUILDING 88 VOLUME B</b>	DATE <b>05/13/2016</b>		
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	BUILDING NUMBER <b>88</b>	CHECKED BY <b>DAN</b>		PROJECT NO. <b>531-322</b>
APPROVED: MEDICAL CENTER DIRECTOR	LOCATION <b>BOISE, IDAHO</b>	DRAWN BY <b>CRH</b>		DRAWING NO. <b>E0.1</b>
				DWG 113 OF 126





A black and white photograph of a single-story brick building. The building has a dark brick facade and a light-colored horizontal band near the roofline. A vertical downspout is visible on the left side. Several windows are visible, some with dark shutters. A large, leafy tree stands to the right of the building, casting shadows on the ground. The foreground is covered in a layer of gravel or small stones.

This technical drawing illustrates a mechanical assembly, possibly a pump or turbine, with various components and flow paths. The drawing includes a central rectangular component, several circular components with internal structures, and a complex network of pipes and valves. A dashed line indicates a specific path or boundary. The drawing is labeled with '1' through '7' and 'N.C.'.

1. REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER EXISTING UTILITIES ON SITE AND FOR INSTRUCTIONS REGARDING LOCATING AND VERIFYING ALL UTILITIES.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON CIVIL PLANS. LOCATIONS OF EXISTING ABOVE GROUND UTILITIES SHALL COMPLY WITH THE LOCAL AND STATE REQUIREMENTS FOR RECORD DRAWINGS AND DAMAGE PREVENTION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED AS A RESULT OF SITE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS OR LOCATING SERVICES FOR EXACT UTILITY LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO DIGGING.
3. PROTECT ALL EXISTING FACILITIES, STRUCTURES, AND LANDSCAPING OUTSIDE OF THE CONSTRUCTION AREA UNLESS NOTED OTHERWISE. COORDINATE WITH LANDSCAPING PLANS FOR SCHEDULE OF LANDSCAPING AND TREES.
4. EXISTING EQUIPMENT, DEVICES, AND CONNECTIONS HEREON SHOWN TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE PROJECT. PROTECT ALL CONNECTIONS TO KEEP EXISTING EQUIPMENT ACTIVE. WHERE CONNECTIONS ARE DISRUPTED DUE TO CONSTRUCTION ACTIVITIES, REPAIR OR REPLACE ALL DAMAGED CONNECTIONS AND EQUIPMENT. ADVISE THE CONTRACTOR TO PROVIDE THE OWNER WITH 24 HOUR NOTICE PRIOR TO ANY WORK TO BE DONE TO REMOVE OR DISRUPT EXISTING UTILITIES. ALL UNDERGROUND CONDUIT ELBOWS SWEEPING ABOVE GRADE SHALL BE PIPED WRAPPED RIGID WHERE SWEEPING ABOVE GRADE. CONDUITS SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE.
5. REFER TO SPECIFICATION SECTION 26010 FOR COORDINATION REQUIREMENTS WITH ELECTRICAL UTILITY COMPANY.
6. ALL CABLES INSTALLED UNDERGROUND SHALL BE SUITABLE FOR WET LOCATIONS.

1. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES ASSOCIATED WITH GAZEBO BEING REMOVED. DISCONNECT AND REMOVE ALL RELATED EXISTING CIRCUITS BACK TO EXISTING PANEL BEING REMOVED. SEE KEY NOTE 2.
2. DISCONNECT AND REMOVE EXISTING ELECTRICAL PANEL #8. SEE PHOTOGRAPH 1.
3. DISCONNECT AND REMOVE EXISTING FEEDER CONDUCTORS AND RACEWAY BACK TO SOURCE. SEE KEYNOTES 3 AND 4. SEE DEMOLITION SHEET E2-04.
4. DISCONNECT AND REMOVE EXISTING FEEDER CONDUCTORS AND RACEWAY BACK TO SOURCE. SEE KEY NOTE 5.
5. DISCONNECT AND REMOVE EXTERIOR MOUNTED CONDUIT FROM BELOW GROUND TO CEILING SPACE. REMOVE RELATED CONDUCTORS. SEE PHOTOGRAPH 2. SEE SHEET E2-00 AND PARTIAL LINE DIAGRAM. REMOVE EXISTING CONDUIT FROM EXISTING ELECTRICAL PANEL TO ROOM 1428. SEE PARTIAL LINE DIAGRAM ON SHEET E0-0.
6. DISCONNECT AND REMOVE EXISTING 100A DISCONNECT. SEE PARTIAL LINE DIAGRAM ON SHEET E0-0.
7. EXISTING EXTERIOR FEEDING CONDUIT WITH CONDUCTORS, AND EXISTING BRANCH CIRCUIT CONDUITS WITH CONDUCTORS TO REMAIN. SHOWN FOR COORDINATION OF NEW WORK.

THIS PLAN REPRESENTS EXISTING DEVICE AND EQUIPMENT LOCATIONS AS CLOSELY AS REASONABLY DISCERNIBLE AND IS PROVIDED FOR CONTRACTOR INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN VERIFICATION OF EXISTING CONDITIONS PRIOR TO BID.

No.	Description	Date
REVISIONS	DATE	



**ZCA.**

408 E. Parkcenter Blvd, Suite 205, Boise Idaho 83706

DRAWING TITLE	
SITE ELECTRICAL DEMOLITION PLAN	
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	
APPROVED: MEDICAL CENTER DIRECTOR	

PROJECT TITLE		
VAMC BUILDING 88 VOLUME B		
BUILDING NUMBER 88	CHECKED BY DAN	DRAWN BY CRH
LOCATION BOISE, IDAHO		

DATE	05/13/2016		
PROJECT NO.	531-322		
DRAWING NO.	E1.0		
DWG	114	OF	126



FOR CONSTRUCTION



REMOVE ALL EXISTING DEVICES AND AREAS OF DEMOLITION SHOWN UNLESS OTHERWISE NOTED ON OTHER PLANS.

REMOVE ALL EXISTING DEVICES AND CONNECTIONS TO REMAIN DURING CONSTRUCTION TO THE FURTHEST EXTENT POSSIBLE. WHERE EXISTING DEVICES ARE NOT TO BE REMOVED, THE CONTRACTOR SHALL REPAIR, REPLACE, AND/OR RECONNECT IN FULL COMPLIANCE WITH THE FOLLOWING:

WHERE EXISTING DEVICES AND CONNECTIONS ARE AFFECTED BY THEIR DEMOLITION WORK, EXTEND CONNECTIONS TO EXISTING OR REMAINING DEVICES OR TO KEEP ALL EXISTING DEVICES AND CONNECTIONS TO REMAIN. DEMOLITION MAY BE AFFECTED BY DEMOLITION AND AS SUCH SHALL BE AVOIDED TO THE MAXIMUM EXTENT POSSIBLE. WHERE A DISCONNECT BOX WHERE DEMOLITION IS INDICATED FOR DEVICES IN MASONRY WALL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE DISCONNECT BOX IN PLACE IN WALL. FURNISH AND INSTALL BULK COVERPLATE ON ABANDONED BOX.

ALL UNUSED/ABANDONED CONTROLS INSTALLED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. WHERE ALL DEVICES AND CONNECTIONS ON A CIRCUIT ARE REMOVED, REMOVE HORN/CORN CONNECTIONS TO RESPECTIVE DISCONNECT BOXES AND DISCONNECT BOXES TO CIRCUIT BREAKER/NEUTRAL SWITCH/SWAP AND UPDATE DIRECTORY LABEL AS NECESSARY.

REMOVE ALL EXISTING HORN/CORN IN WALLS TO REMAIN, REMOVE DEVICES AND ALL RESPECTIVE CONNECTIONS AND ABANDON BOX/CONDUIT IN PLACE. BULK COVERPLATE SHALL BE INSTALLED ON ALL ABANDONED BOXES IN PLACE. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR DETAILED INSTRUCTIONS RESPECTIVE TO WALL, FLOOR AND CEILING SCOPES OF WORK.

REMOVE ALL EXISTING NEW ELECTRICAL DEVICES AND CONNECTIONS TO REMAIN IN USE. ALL EXISTING ELECTRICAL WIRING, APPARATUS, FIXTURES, EQUIPMENT ETC. SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE CITY OF CHICAGO, AND BROUGHT TO CURRENT APPLICABLE CODE STANDARDS IN ACCORDANCE WITH THE CITY OF CHICAGO ORDINANCES. PROXIMITY SHALL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.

1. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN AREA INSIDE DASHED LINE. DISCONNECT AND REMOVE RELATED EXISTING CIRCUIT CONDUCTORS AND RACEWAYS BACK TO FIRST SPLICE, UNLESS OTHERWISE NOTED.
2. EXISTING RECEPTACLE AND RELATED CIRCUIT TO REMAIN.
3. EXISTING FIXTURE IS TO BE RELOCATED. EXISTING CIRCUIT IS TO REMAIN. SEE SHEET E2.2L FOR RELATED WORK.



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VAMC BUILDING 88		
VOLUME B		
BUILDING NUMBER	CHECKED BY	DRAWN BY
88	DAN	CRH
LOCATION		
BOISE, IDAHO		

DATE
05/13/2016
PROJECT NO.
531-322
DRAWING NO.
E1.2D
DWG 115 OF 126



[illegible]

OCCUPANCY GROUP:	B', 'S-2
OCCUPANCY LOAD:	SEE ARCHITECTURAL CODE PLAN.
BUILDING AREA:	SEE ARCHITECTURAL CODE PLAN.
SYSTEM TYPE:	NON-CODED ADDRESSABLE TYPE.
NOTIFICATION:	HORN/STROBE DEVICES.
MECHANICAL EQUIPMENT:	SEE TYPICAL IAC REQUIREMENTS.
RATED WALL ASSEMBLIES:	SEE ARCHITECTURAL CODE PLAN SHEETS.
WIRE SPRINKLER SYSTEM:	SEE GENERAL NOTES.
POWER SUPPLY:	POWER SUPPLIES AND BATTERIES OVERSIZED FOR 25% ADDITIONAL DEVICES.
CIRCUIT CAPACITY:	LOAD INDIVIDUAL CIRCUITS TO 50% MAXIMUM.
VOLTAGE DROP:	CONDUCTORS SHALL BE SIZED FOR 100% LOAD.
	CALCULATE AT 100% LOAD AT END OF LINE.
	VOLTAGE DROP SHALL NOT EXCEED 10% ON EACH CIRCUIT.
SMOKE CONTROL:	N/A

1. DUCT SMOKE DETECTOR FOR AHU-3. PROVIDE CONNECTION WITH AHU-3 CONTROL PANEL FOR UNIT SHUTDOWN UPON ACTIVATION.

1. DUCT SMOKE DETECTOR FOR AHU-3. PROVIDE CONNECTION WITH AHU-3 CONTROL PANEL FOR UNIT SHUTDOWN UPON ACTIVATION.



DEPARTMENT OF VETERANS AFFAIRS

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APPROVED: MEDICAL CENTER DIRECTOR

LOCATION	BOISE, IDAHO
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E2.1F

REFER TO LUMINAIRE SCHEDULE ON SHEET E01 FOR LUMINAIRE TYPES AND DETAILED INSTALLATION INSTRUCTIONS.

1. LOCATE OCCUPANCY SENSORS BY TYPE, WIRING DIAGRAMS, AND INSTALLATION INSTRUCTIONS.

2. MULTIPLE BRANCH CIRCUITS MAY BE UTILIZED FOR LIGHTING CIRCUITS AT CONTRACTOR'S DISCRETION, WHERE MULTI-WIRE BRANCH CIRCUITS ARE USED, INTEGRAL HANDLE TIES SHALL BE IMPLEMENTED ON OVERCURRENT PROTECTIVE DEVICES IN THE MAIN PANEL.

3. LOCATE LIGHT SWITCHES AND OTHER WALL MOUNTED LIGHTING CONTROL DEVICES WITHIN 12 INCHES OF THE SWITCH OR LIGHTING CONTROL, OR THE LATCH SIDE, OR NOT MORE THAN 12 INCHES FROM THE DOOR SIDE (WHERE APPLICABLE), OR NOT MORE THAN 12 INCHES FROM OPEN POSITION OF DOOR (WHERE INSTALLED ON OPPOSITE WALL) DO NOT INSTALL BEHIND DOOR SWING).

4. LUMINAIRES DENOTED WITH SUFFIX "X" ARE EGRESS LUMINAIRES WITH PHOTOELECTRIC CELL SENSORS AND PHOTOELECTRIC EMERGENCY BALLAST TO UNSWITCHED LEG OF LIGHTING CIRCUIT.

5. DO NOT ROUTE UNSWITCHED LEG OF LIGHTING CIRCUITS THROUGH REARERS.

6. LOCATE OCCUPANCY SENSORS TO CONTROL AREA LIGHTING.

7. LOW VOLTAGE OVERLOAD SWITCHES SHALL BE CONNECTED TO RESPECTIVE RELAY PANEL FOR CONTROL. CONDUCTORS SHALL BE INSTALLED IN CONDUIT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).

8. COORDINATE LUMINAIRE PLACEMENT WITH ARCHITECTURAL, REFLECTED LIGHTING, AND MECHANICAL CONTRACTORS.

9. COORDINATE CEILING GRID ORIENTATIONS WITH CEILING INSTALLER PRIOR TO INSTALLATION.

10. LOCATE OCCUPANCY SENSORS FOR TIME DELAY, SENSITIVITY, AND COVERAGE AREAS WITH OWNER UPON INSTALLATION. INSTALL SENSORS IN ORIENTATION TO PROVIDE MAXIMUM COVERAGE IN AREAS SERVED AND SO AS TO AVOID OBSTRUCTION.

11. LOCATE OCCUPANCY SENSOR POWER PACKS ABOVE ACCESSIBLE CEILING. COORDINATE WITH MECHANICAL CONTRACTOR FOR MECHANICAL SYSTEM PENETRATIONS.

12. ADJUST HEIGHT OF PENDANT MOUNTED LUMINAIRES AFTER COMPLETING WORK.

13. PROPERLY BURN IN ALL FLUORESCENT LAMP SOURCES CONNECTED TO DIMMING CIRCUIT CONTROLS IN ACCORDANCE WITH LAMP MANUFACTURER'S RECOMMENDATIONS.

14. EXIT SIGNS SHALL BE LOCATED SO AS TO PROVIDE VISUAL IDENTIFICATION OF EXIT DOORS AND SHALL NOT BE OBSTRUCTED FROM VIEW. LOCATE TO ALLOW FOR PROPERLY IDENTIFYING EXIT DOORS.

15. WHERE CONDUITS ARE SHOWN TO BE INSTALLED ABOVE EXISTING ACCESSIBLE CEILINGS, REMOVE CEILING TILES IN THE AFFECTED PORT OF THE CONDUIT TO PROVIDE PROPER PENETRATION STOP AND PROVIDE PROPER PENETRATION REPLACEMENT UPON COMPLETION OF CONDUIT INSTALLATION, WHERE DAMAGE TO CEILING TILES OCCURS, FURNISH AND INSTALL MATCHING CEILING TILES TO MATCH EXISTING TILES. OBTAIN MATCHING TILE INFORMATION FROM OWNER.

1. TEMPORARY LUMINAIRE TO BE REUSED AS A PART OF BID ALTERNATE #3.  
2. TEMPORARY SWITCH FOR TEMPORARY LIGHTING AS A PART OF BID ALTERNATE #1.  
3. CONTROL CIRCUIT BY PHOTO SENSOR ON ROOF AND AIM NORTH. SEE CONTROL DIAGRAM 1/E3.0. SEE ROOF PLAN FOR LOCATION.  
4. THIS IS A TEMPORARY LOCATION. EXIT SIGN IS TO BE RELOCATED AS A PART OF BID ALTERNATE #3.



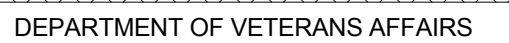
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PROJECT NO.	531-322		
DRAWING NO.	E2.1L		
DWG	117	OF	126



FOR CONSTRUCTION



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1. INSTALL NEW PANEL 'NLE'. SEE PARTIAL ONE LINE DIAGRAM.
2. SEE SHEET E2.3 FOR WORK THAT IS TO BE COMPLETED AS A PART OF BID ALTERNATE #1.



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DATE  
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PROJECT NO.  
531-322

DRAWING NO.  
E2.1P

DWG 118 OF 126



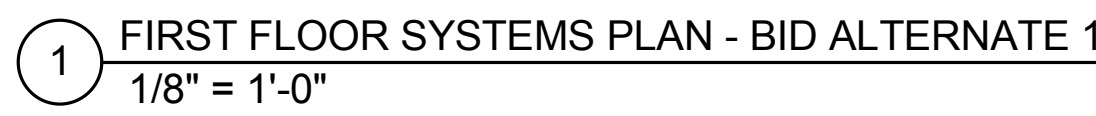
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1. ENTRY CARD READER CONNECTION LOCATION, JUNCTION BOX AND 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE SHALL BE INSTALLED AS A PART OF BID ALTERNATE #1. THE BALANCE OF THE RELATED SYSTEM SHALL BE INSTALLED AS A PART OF BID ALTERNATE #3. SEE SHEET E2.2S.

2. DOOR OPERATOR PUSHBUTTON LOCATION, JUNCTION BOX AND 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE SHALL BE INSTALLED AS A PART OF BID ALTERNATE #1. THE BALANCE OF THE RELATED SYSTEM SHALL BE INSTALLED AS PART OF BID ALTERNATE #3. SEE SHEET E2.2S.

3. SECURITY CAMERA CONNECTION LOCATION, JUNCTION BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE SHALL BE INSTALLED AS A PART OF BID ALTERNATE #1.



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PROJECT NO.	531-322		
DRAWING NO.	E2.1S		
DWG	119	OF	126



FOR CONSTRUCTION



1 FIRE ALARM SYSTEM DEVICE CONNECTIONS SHOWN ON THIS PLAN ARE SHOWN  
2 FOR BIDDING PURPOSES ONLY. FIRE ALARM CONTRACTOR SHALL PROPERLY  
3 IDENTIFY AND LOCATE ALL DEVICES AND CONNECTIONS TO THE FIRE ALARM  
4 MANUFACTURERS SPECIFICATIONS AND MODIFY CONNECTIONS AS NECESSARY.  
5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY  
6 PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR  
7 BEING THE FINAL WORKING DRAWINGS FROM WHICH THE INSTALLATION IS  
8 IMPLEMENTED.

9 THE FOLLOWING SCHEDULING PLAN IS SHOWN FOR REFERENCE ONLY. CONTRACTOR  
10 SHALL COORDINATE PLACEMENT OF CEILING MOUNTED DEVICES/APPLIANCES  
11 WITH ALL OTHER TRADES. SPACING REQUIREMENTS 5' PER NFPA 72 AND LOCAL  
12 JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING  
13 WITH ALL OTHER TRADES.

14 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION. THE SYSTEM SHALL  
15 HAVE BEEN APPROVED BY THE ELECTRICAL ENGINEER AND THE BUILDING OFFICIAL.  
16 ALL COSTS AND CORRECTIONS OF WORK DUE TO LATE SUBMITTALS SHALL BE  
17 THE RESPONSIBILITY OF THE CONTRACTOR.

18 ALL FIRE ALARM SYSTEM WIRING SHALL BE IN RED-COLORED CABLE (3/4 INCH  
19 MINIMUM SIZE). SEPARATE PULLWAYS SHALL BE UTILIZED FOR THE INSTALLATION  
20 OF EACH CIRCUIT. PULLWAYS SHALL BE IDENTIFIED BY A RED TAG WITH A MATCH W/PA  
21 STANDARDS. SEE SPECIFICATIONS.

22 ALL FIRE ALARM SYSTEM PULL BOXES SHALL BE LABELED "FIRE ALARM" AND  
23 PAINTED RED.

24 REFER TO SPECIFICATION SECTION 26533 FIRE ALARMS AND BOXES FOR  
25 ELECTRICAL CONNECTION REQUIREMENTS FOR DEVICES AND BOXES.

26 CIRCUIT PROTECTIVE DEVICES SERVING FIRE ALARMS SHALL BE  
27 FURNISHED WITH INTEGRAL LOCK-ON DEVICES) AND BE PAINTED RED. EACH  
28 SYSTEM EQUIPMENT PANEL SHALL BE SERVED WITH A DESIGNATED LINE  
29 VOLTAGE.

30 FURNISH AND INSTALL APPROPRIATE QUALITY OF SYSTEM POWER SUPPLIES,  
31 PANELS, AND APPROPRIATE SMOKE DETECTION AND LINE VOLTAGE POWER  
32 SUPPLIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER  
33 LOCATION AND INSTALLATION OF ALL DEVICES AND CONNECTIONS. THE  
34 CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND  
35 REQUIRED LOCATE ADDITIONAL POWER SUPPLY AND ALL PANELS IN  
36 ACCORDANCE WITH THE WRITTEN CONSTRUCTION DOCUMENTS. THE  
37 CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND  
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39 BUILDING ONLY WITH THE WRITTEN CONSENT OF THE ELECTRICAL ENGINEER  
40 AND THE BUILDING OFFICIAL.

41 ALL DEVICES AND CONNECTIONS SHALL BE IDENTIFIED IN ACCORDANCE WITH NFPA 72.  
42 WHERE DUAL SMOKE DETECTOR CIRCUITS ARE USED, SMOKE DETECTORS ARE  
43 PANELS) ABOVE) AT RESPECTIVE DETECTOR DEVICE FOR ACCESS. SEE  
44 SPECIFICATIONS FOR DETAILS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR  
45 THE PROPER LOCATION AND INSTALLATION OF ALL DEVICES AND CONNECTIONS.  
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OCCUPANCY GROUP:	1B, "S-2"
OCCUPANCY LOAD:	SEE ARCHITECTURAL CODE PLAN.
BUILDING AREA:	SEE ARCHITECTURAL CODE PLAN.
SYSTEM TYPE:	NON-CODED ADDRESSABLE TYPE.
OCCUPANT NOTIFICATION:	HORN/STROBE DEVICES.
MECHANICAL EQUIPMENT:	SHUTDOWN PER IMC REQUIREMENTS.
IRRADIATED WALL ASSEMBLIES:	SEE ARCHITECTURAL CODE PLAN SHEETS.
TYPE SPRINKLER SYSTEM:	SEE GENERAL NOTES.
POWER SUPPLY:	POWER SUPPLIES AND BATTERIES OVERSIZED FOR 25% ADDITIONAL DEVICES.
CIRCUIT CAPACITY:	25% ADDITIONAL LOAD, 100% MAXIMUM.
VOLTAGE DROP:	CONDUCTORS SHALL BE SIZED FOR 100% LOAD, CALCULATE AT 100% LOAD AT END OF LINE.
	VOLTAGE DROP SHALL NOT EXCEED 10% ON EACH CIRCUIT.
SMOKE CONTROL:	N/A

## 1 NOT USED

1. NOT USED.

DEPARTMENT OF VETERANS AFFAIRS

[illegible]

**Z6A.**

408 E. Parkcenter Blvd, Suite 205, Boise Idaho 83706

DRAWING TITLE
FIRST FLOOR FIRE ALARM PLAN - BID ALTERNATE 3
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE		
VAMC BUILDING 88 VOLUME B		
BUILDING NUMBER 88	CHECKED BY DAN	DRAWN BY CRH
LOCATION BOISE, IDAHO		

DATE	05/13/2016		
PROJECT NO.	531-322		
DRAWING NO.	E2.2F		
DWG	120	OF	126





## SHEET GENERAL NOTES

2. REFER TO LUMINAIRE SCHEDULE ON SHEET E0.0 FOR LUMINAIRE TYPES AND  
DETAILED INSTALLATION INSTRUCTIONS
3. COORDINATE WITH ELECTRICAL AND WIRING DIAGRAMS ON SHEET  
E0.0 FOR OCCUPANCY SENSOR TYPES, WIRING DIAGRAMS, AND INSTALLATION  
INSTRUCTIONS
4. MULTITOUCH TOUCH CIRCUITS MAY BE UTILIZED FOR LIGHTING CIRCUITS ON  
CONTRACTOR'S DISCRETION. WHEN MULTI-TOUCH RESEARCHERS ARE USED,  
INTERNAL HANDLE TIES SHALL BE IMPLEMENTED OVER CURRENT  
CIRCUITS. COORDINATE WITH ELECTRICAL AND WIRING DIAGRAMS TO  
LOCATE LIGHT SWITCHES AND OTHER WALL MOUNTED LIGHTING CONTROL  
DEVICES. SWITCHES SHALL BE INSTALLED WITHIN 12 INCHES OF THE  
LATCH SIDE, OR NOT MORE THAN 12 INCHES FROM THE DOOR SIDE  
(WHERE APPLICABLE), OR NOT MORE THAN 12 INCHES FROM OPEN POSITION OR  
DOOR REVERTED TO OPPOSITE WALL, DO NOT INSTALL BEHIND DOOR  
SWING).
5. LUMINAIRES DENOTED WITH SUFFIX X ARE EGRESS LUMINAIRES WITH  
INTERLOCKED PHOTOELECTRIC SENSORS AND EMERGENCY BALLAST  
TO UNWITTINGLY SWITCH OF LIGHTING CIRCUIT.
6. DO NOT ROUTE UNWITTINGLY LEGS OF LIGHTING CIRCUITS THROUGH RELAYS  
(RELAYS ARE UNDER CONTRACTOR'S CONTROL)
7. LOW VOLTAGE OVERRIDE SWITCHES SHALL BE CONNECTED TO RESPECTIVE  
RELAY PANEL FOR CONTROL. CONDUCTORS SHALL BE INSTALLED IN CONDUIT  
AND SHALL BE IDENTIFIED BY COLOR AND NUMBERING.
8. COORDINATE LUMINAIRE PLACEMENT WITH ARCHITECTURAL REFLECTED  
LIGHTING PLAN. COORDINATE WITH ARCHITECTURAL PLAN TO  
COORDINATE CEILING GRID ORIENTATIONS WITH CEILING INSTALLER PRIOR  
TO INSTALLATION.
9. ADJUST OCCUPANCY SENSORS FOR TIME DELAY, SENSITIVITY, AND  
COVERAGE AREAS WITH OWNER UPON INSTALLATION. INSTALL SENSORS IN  
LOCATION TO PROVIDE MAXIMUM COVERAGE IN AREAS SERVED AND SO AS  
TO MINIMIZE COVERAGE OVERLAP.
10. LOCATE OCCUPANCY SENSOR POWER PACKS ABOVE ACCESSIBLE CEILINGS.
11. COORDINATE WITH MECHANICAL CONTRACTOR FOR MECHANICAL SYSTEM  
CONDUIT AND WIRING ROUTES.
12. ADJUST HEIGHT OF PENDANT MOUNTED LUMINAIRES AFTER COMPLETING  
WORK.
13. PROPERLY BURN-IN ALL FLUORESCENT LAMP SOURCES CONNECTED TO  
DIMMING CIRCUIT CONTROLS IN ACCORDANCE WITH LAMP MANUFACTURER'S  
RECOMMENDATIONS.
14. EXIT SIGNS SHALL BE LOCATED SO AS TO PROVIDE VISUAL IDENTIFICATION OF  
EXIT DOORS AND SHALL NOT BE OBSTRUCTED FROM VIEW. LOCATE TO ALLOW  
EASY IDENTIFICATION OF EXIT DOORS AND SHALL NOT BE OBSTRUCTED FROM VIEW.  
WHERE CONDUITS ARE SHOWN TO BE INSTALLED ABOVE EXISTING ACCESSIBLE  
CEILINGS, REMOVE CEILING TIES IN THE AFFECTED PATH OF THE CONDUIT  
PRIOR TO INSTALLATION. STAY IN PLACE AND DO NOT REMOVE OR  
REPLACEMENT UPON COMPLETION OF CONDUIT INSTALLATION. WHERE  
DAMAGE TO CEILING TIES OCCURS, FURNISH AND INSTALL MATCHING CEILING  
TIE. WHERE ALL DAMAGED TIES, OBTAIN MATCHING TIE INFORMATION  
FROM OWNER.

1. EXISTING LUMINAIRE AND EXISTING CIRCUIT TO REMAIN. SHOW FOR COORDINATION OF NEW WORK.
2. TEMPORARY SWITCH TO BE UTILIZED AS A PART OF BID ALTERNATE #3.
3. EXISTING LIGHTING CONTROL 3-WAY SWITCH FOR CIRCUIT INDICATED. SWITCH AND RELATED CONTROL CIRCUIT IS TO REMAIN. SHOW FOR COORDINATION OF NEW WORK.
4. NEW 4-WAY SWITCH FOR CONTROL OF CIRCUIT INDICATED. PULL CONTROLS REQUIRED AND INTERCEPT EXISTING CONTROL CIRCUIT. MAKE ALL REQUIRED CONNECTIONS.
5. INTERCEPT EXISTING CIRCUIT INDICATED. EXTEND TO NEW LUMINAIRE AND CONNECT TO LUMINAIRE. SEE KEYNOTE #.
6. CONTROL BY NEW 4-WAY SWITCH. NEW CIRCUIT MOUNTED ON ROOF. AIM SENSE NORTH. SEE CONTROL DIAGRAM 11E.0. SEE ROOF PLAN FOR LOCATION.
7. ADD NEW LUMINAIRE TOWARDS THE MIDDLE OF THE ENTRY CANOPY.
8. TEMPORARY SWITCH FOR TEMPORARY LIGHTING AS A PART OF BID ALTERNATE #3.
9. EXISTING LUMINAIRE AND EXISTING CIRCUIT TO REMAIN. INTERCEPT EXISTING CIRCUIT INDICATED AND EXTEND TO NEW LUMINAIRE WITH THE SAME CIRCUIT IN NORTH HALL. MAKE ALL REQUIRED CONNECTIONS. SEE KEYNOTE 5.
10. EXISTING LIGHTING CONTROL 3-WAY SWITCH FOR CIRCUIT INDICATED. RELOCATED. INTERCEPT EXISTING CIRCUIT AND EXTEND TO THIS LOCATION. MAKE ALL REQUIRED CONNECTIONS. SEE SHEET E2.1L.

DEPARTMENT OF VETERANS AFFAIRS

[illegible]

**ZCA**

Architects and Planners, Chartered

408 E. Parkcenter Blvd, Suite 205, Boise Idaho 83706

DRAWING TITLE
FIRST FLOOR LIGHTING PLAN - BID ALTERNATE 3
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE		
VAMC BUILDING 88 VOLUME B		
BUILDING NUMBER	CHECKED BY	DRAWN BY
88	DAN	CRH
LOCATION		
BOISE, IDAHO		


DATE	05/13/2016
PROJECT NO.	531-322
DRAWING NO.	E2.2L
DWG	121 OF 126



SHEET GENERAL NOTES

- ## SHEET KEYNOTES

- 1 FIRST FLOOR MECHANICAL POWER PLAN - BID ALTERNATE 3  
1/8" = 1'-0"



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DATE	05/13/2016
PROJECT NO.	531-322
DRAWING NO.	E2.2M
DWG	122 OF 126



DEPARTMENT OF VETERANS AFFAIRS



1. RECEPTACLE LOCATIONS SHALL BE COORDINATED WITH MILLWORK, WALL FINISHES, WINDOW HEIGHTS, AND OTHER WALL MOUNTED EQUIPMENT PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH WORK
2. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE UTILIZED FOR LINE TO PANELS. ALL BRANCHES DEDICATED NEUTRAL CONDUCTORS SHALL BE PROVIDED FOR ALL CIRCUITS
3. ALL JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILING SHALL BE LOCATED IN AN EASILY ACCESSIBLE LOCATION AT LEAST 6 FEET
4. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF FIRE-RATED ASSEMBLIES
5. PENETRATIONS OF FIRE-RATED ASSEMBLIES SHALL BE PERFORMED IN ACCORDANCE WITH UL REQUIREMENTS AND DIVISION 5 SPECIFICATIONS
6. PRIOR TO INSTALLATION OF ELECTRICAL PANELS, NOTIFY ARCHITECT OF OPERATORS AND ELECTRIFIED DOOR HARDWARE AS DIRECTED BY DOOR HARDWARE INSTALLER. COORDINATE LOCATION OF CONTROLLER, POWER SUPPLY, AND SENSING UNIT WITH ARCHITECT AND DOOR HARDWARE SUPPLIER PRIOR TO COMMENCING WORK. REFER TO "S" ELECTRICAL SHEETS FOR ADDITIONAL INSTALLATION REQUIREMENTS
7. REVIEW ALL SUBMITTALS AND MANUFACTURER'S INSTRUCTIONS FOR ALL ELECTRICALLY OPERATED EQUIPMENT SUPPLIED BY OTHER DIVISIONS OF WORK. REPORT TO ARCHITECT ANY DISCREPANCIES IN ELECTRICAL CONNECTIONS BASED UPON REVIEW OF SUBMITTALS

1. PROVIDE AND INSTALL JUNCTION BOX WITH BLANK COVERPLATE AND 3/4" CONDUIT WITH FULL-CURD TO PANEL NLE FOR FUTURE SECURITY METER DETECTOR.
2. SEE ONE LINE DIAGRAM.
3. CEILING SPACE MOUNTED MOTORIZED DOOR CONNECTION. VERIFY LOCATION AND REQUIREMENTS WITH DOOR SUPPLIER PRIOR TO ROUGH-IN. CONNECT MOTORATOR AND RELATED CONTROL PUSH BUTTONS. SEE SHEET E-22 FOR RELATED NEW WORK.
4. EXISTING RECEPTACLE AND RELATED CIRCUIT TO REMAIN. SHOW FOR REFERENCE.
5. CONNECTION FOR CABINET DIRECT BACKLIGHTING PANEL. POWER SUPPLY CONNECTION AND POWER SUPPLY SHALL BE LOCATED IN COUNTER KNEESPACE. CONNECTION IS FOR INDICATED CIRCUIT. BACKLIGHTING PANEL IS CONTROLLED BY TOGGLE SWITCH. SEE KEYNOTE E. SEE ARCHITECTURAL DRAWINGS FOR BACKLIGHTING PANEL REQUIREMENTS.
6. TOGGLE SWITCH FOR BACKLIGHTING PANEL CONTROL.



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DATE	05/13/2016		
PROJECT NO.	531-322		
DRAWING NO.	E2.2P		
DWG	123	OF	126



DEPARTMENT OF VETERANS AFFAIRS



1. ALL LOCATIONS BORES LOCATED ABOVE ACCESSIBLE CEILING SHALL BE UNNOTED NO MORE THAN 36 INCHES ABOVE CEILING LEVEL.
2. REFER TO ELECTRICAL REQUIREMENTS FOR REVIEW OF FIRE-RATED ASSEMBLIES.
3. PENETRATIONS OF FIRE-RATED ASSEMBLIES SHALL BE PERFORMED IN ACCORDANCE WITH UH REQUIREMENTS AND DIVISION 7 SPECIFICATIONS.
4. REVIEW AND COORDINATE ALL EQUIPMENT CONNECTIONS WITH SUBMITTALS.
5. COORDINATE ALL EQUIPMENT CONNECTIONS WITH ALL OTHERS FOR THE OPERATED EQUIPMENT SUPPLIED BY OTHER DIVISIONS OF WORK PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES IN ELECTRICAL REQUIREMENTS.
6. FURNISH AND INSTALL ALL ELECTRICAL CONNECTIONS TO MOTORIZED DOOR OPERATORS AND ELECTRIFIED DOOR HARDWARE AS DIRECTED BY DOOR HARDWARE MANUFACTURER'S INSTRUCTIONS.
7. SUPPLY, SAFETY SENSORS, AND ALL INTERCONNECTIONS WITH DOOR HARDWARE SUBMITTALS.
8. FURNISH AND INSTALL ALL ELECTRICAL CONNECTIONS TO ALL OTHER ELECTRICAL SHEET FOR ADDITIONAL INSTALLATION REQUIREMENTS.
9. LOCATE TELECOMMUNICATIONS OUTLETS WITHIN 6 INCHES OF NEAREST TELEVISION OUTLET WITHIN 6 INCHES OF NEAREST TELEVISION OUTLET. LOCATE TELEVISION OUTLETS WITHIN 6 INCHES OF NEAREST TELEVISION OUTLET.
10. LOCATE TELEVISION OUTLETS WITHIN 6 INCHES OF NEAREST TELEVISION RECEPTACLE. COORDINATE LOCATION WITH POWER PLANS PRIOR TO ROUGH-IN.
11. COORDINATE WITH SUBMITTALS FOR ADDITIONAL INSTALLATION DETAIL.
12. REFER TO TELECOMMUNICATIONS OUTLET INSTALLATION DETAIL SEE FOR TYPICAL INSTALLATION REQUIREMENTS.
13. TELECOMMUNICATIONS CABLE SHALL BE DISCONTINUED IN OPEN AREA. TELECABLE SHALL BE FURNISHED WITH INSULATED THROTTLING BUSHINGS.
14. COORDINATE WITH SUBMITTALS FOR ADDITIONAL INSTALLATION REQUIREMENTS PERTAINING TO SECURITY SYSTEM CABLE ROUTING.
15. TELECOMMUNICATIONS CONNECTIONS.
16. COORDINATE WITH SUBMITTALS FOR ADDITIONAL INSTALLATION REQUIREMENTS OF DEDICATED PHONE LINES FOR FIRE ALARM SYSTEM DIALING SERVICES.
17. REFER TO TELECOMMUNICATIONS SYSTEM ONE LINE DIAGRAM ON POWER SYSTEM CONNECTION REQUIREMENTS, CONDUIT CONNECTIONS, AND EQUIPMENT RACK ELEVATIONS.

[illegible]

1 FIRST FLOOR SYSTEMS PLAN - BID ALTERNATE 3  
1/8" = 1'-0"

[illegible]

**ZGA.**

Architects and Planners, Chartered

408 E. Parkcenter Blvd, Suite 205, Boise Idaho 83706

DRAWING TITLE

FIRST FLOOR SYSTEMS PLAN - BID  
ALTERNATE 3

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE  
VAMC BUILDING 88  
VOLUME B

BUILDING NUMBER	88
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LOCATION	BOISE, IDAHO
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DATE  
05/13/2016

PROJECT NO.	531-322
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DRAWING NO.  
E2.2S

DWG 124 OF 126

FOR CONSTRUCTION



DEPARTMENT OF VETERANS AFFAIRS

COORDINATE LOCATION OF DISCONNECTING MEANS AT MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION. DO NOT DISCONNECT EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE NAMEPLATE.

COORDINATE LOCATION OF DISCONNECTING MEANS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION. DO NOT DISCONNECT EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE NAMEPLATE.

COORDINATE LOCATION OF RECEPTACLES AT MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION. DO NOT INSTALL ON EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE NAMEPLATE.

COORDINATE MECHANICAL EQUIPMENT CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

ALL CONDUIT FOR ROOF EQUIPMENT CONNECTIONS SHALL BE CONCEALED IN ROOFING MATERIAL FLOOR JOIST UNLESS SPECIFICALLY NOTED OTHERWISE.

SEAL ALL ROOF PENETRATIONS IN ACCORDANCE WITH ROOFING CONTRACTOR'S DETAIL (SEE ROOF PENETRATION DETAILS) ON ARCHITECTURAL AND ELECTRICAL SHEETS.

ADHERE TAPE TAIP TO ROOFING MATERIALS IN ACCORDANCE WITH THE ROOFING CONTRACTOR'S DETAIL (SEE ROOF PENETRATIONS) ON ARCHITECTURAL AND ELECTRICAL SHEETS.

METHODS SPECIFICALLY ALLOWED TO MAINTAIN ROOFING WARRANTY.

REFER TO ELECTRICAL CONTRACTOR FOR SPECIFIC ELECTRICAL REQUIREMENTS, SHOP DRAWINGS, AND MANUFACTURER'S INSTRUCTIONS FOR ALL ELECTRICALLY OPERATED EQUIPMENT SUPPLIED BY OTHER DIVISIONS OF THE PROJECT.

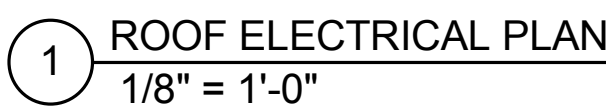
REPORT ANY DISCREPANCIES IN ELECTRICAL CONNECTIONS BASED UPON REVIEW. DISCREPANCY OF CONDUCTORS IN RACEWAYS EXPOSED ON ROOF PER NEC 318.15.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT AND EQUIPMENT FOR THE ELECTRICAL SYSTEM.

REFER TO ELECTRICAL CONTRACTOR FOR EQUIPMENT AND CONNECTIONS. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS INCLUDING PANELS, THERMOSTATS, AND CONTROL POINTS.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR THE ELECTRICAL SYSTEM COMPONENTS AS REQUIRED BY FIRE ALARM DESIGNER AND CONTRACTOR.

INSTALL DEVICE AS A PART OF BID ALTERNATE 1. SEE HEAT TAPE  
INSTALLATION DETAIL 1/E2.3  
INSTALL PHOTOCELL AS A PART OF BID ALTERNATE 1. CONTROLS CIRCUIT  
INDICATED. SEE SHEET E2.1L  
INSTALL PHOTOCELL AS A PART OF BID ALTERNATE 3. CONTROLS CIRCUIT  
INDICATED. SEE SHEET E2.2L  
INSTALL HVAC UNIT AS A PART OF BID ALTERNATE 1.



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DATE	05/13/2016		
PROJECT NO.	531-322		
DRAWING NO.	E2.3		
DWG	125	OF	126

25 OF 126



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