



IN REPLY REFER TO:
L7615(YOSE-PM)

United States Department of the Interior NATIONAL PARK SERVICE

Yosemite National Park
P. O. Box 577
Yosemite, California 95389

Memorandum

To: Ron Gaunt, Project Manager, Yosemite National Park

From: Superintendent, Yosemite National Park

Subject: NEPA and NHPA Clearance: 2015-002 Yosemite Lodge Generator Replacement (56597)

The Executive Leadership Team has reviewed the proposed project and completed its environmental assessment documentation, and we have determined the following:

- There will not be any effect on threatened, endangered, or rare species and/or their critical habitat.
- There will no adverse effect on historical, cultural, or archeological resources.
- There will not be serious or long-term undesirable environmental or visual effects.

The subject proposed project, therefore, is now cleared for all NEPA and NHPA compliance requirements as presented above. Project plans and specifications are approved and construction and/or project implementation can commence.

For the proposed project actions to be within compliance requirements during construction and/or project implementation, the following mitigations must be adhered to:

- Recommend screening generator from employee housing, with a design compatible with the Yosemite Lodge to further minimize the visual impact. The screen could be similar to the condenser fence.

Recommendations for Conditions or Stipulations:

None

For complete compliance information see PEPC Project 56597.

//Don L. Neubacher//

Don L. Neubacher

Enclosure (with attachments)

cc: Statutory Compliance File

*The signed original of this document is on file at the
Environmental Planning and Compliance Office in
Yosemite National Park.*



Categorical Exclusion Form

Project: 2015-002 Yosemite Lodge Generator Replacement

PEPC Project Number: 56597

Project Description:

The purpose of this project is to replace the existing generator located at Yosemite Lodge (YL) back dock utility area with a new code compliant model that supplies power to the YL core area. The existing generator will be removed from the interior location, and the new generator will be installed outside and nearby the original location. All work will be code compliant and performed by a qualified contractor.

The new generator will be free standing. The fuel supply and return will be routed above ground in a surface trench; excavation for fuel lines will not be necessary. Some surface grading in a rectangular area approximately 24 feet long and 9 feet wide is necessary to install the generator on a level surface. Park High Voltage staff was consulted on electrical service for the generator and their request was underground installation of the new electrical lines. Trenching from electrical source to the generator will involve a 24 inch wide, 42 inch deep and approximately 30 feet long trench. Two mid-size Cedar trees and one stump must be removed for the project to proceed.

Project Locations:

Mariposa County, CA

Mitigations:

- Recommend screening generator from employee housing, with a design compatible with the Yosemite Lodge to further minimize the visual impact. The screen could be similar to the condenser fence.

Describe the category used to exclude action from further NEPA analysis and indicate the number of the category (see Section 3-4 of DO-12):

C.18 Construction of minor structures, including small improved parking lots, in previously disturbed or developed areas.

On the basis of the environmental impact information in the statutory compliance file, with which I am familiar, I am categorically excluding the described project from further NEPA analysis. No exceptional circumstances (e.g. all boxes in the ESF are marked "no") or conditions in Section 3-6 apply, and the action is fully described in Section 3-4 of DO-12.

Superintendent: //Don L. Neubacher//

Date: 3/31/15

Don L. Neubacher

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Yosemite National Park.*

Categorical Exclusion Form - Yosemite Lodge



National Park Service
U.S. Department of the Interior

Yosemite National Park
Date: 03/25/2015

ENVIRONMENTAL SCREENING FORM (ESF)

DO-12 APPENDIX 1

Date Form Initiated: 03/24/2015

Updated May 2007 - per 2004 Departmental Manual revisions and proposed Director's Order 12 changes

A. PROJECT INFORMATION

Park Name: Yosemite National Park
Project Title: 2015-002 Yosemite Lodge Generator Replacement
PEPC Project Number: 56597
Project Type: Equipment Replacement (EQR)
Project Location:
County, State: Mariposa, California **District:** Yosemite Valley
Project Leader: Ron Gaunt

Is project a hot topic (controversial or sensitive issues that should be brought to attention of Regional Director)? No

B. RESOURCE EFFECTS TO CONSIDER:

Identify potential effects to the following physical, natural, or cultural resources	No Effect	Negligible Effects	Minor Effects	Exceeds Minor Effects	Data Needed to Determine/Notes
1. Geologic resources – soils, bedrock, streambeds, etc.		Negligible			Generator pad measures 24 feet long and 9 feet wide. Trenching will include 30 feet long, 24 inches wide and 42 inches deep.
2. From geohazards	No				
3. Air quality		Negligible			The generator will only be used during power outages but there will be air emissions produced during emergency situations.
4. Soundscapes		Negligible			The generator will produce some equipment noises but the new model has sound attenuation and will be quieter than the existing model.

Environmental Screening Form (ESF) - Yosemite Lodge Generator Replacement - PEPC ID: 56597

Identify potential effects to the following physical, natural, or cultural resources	No Effect	Negligible Effects	Minor Effects	Exceeds Minor Effects	Data Needed to Determine/Notes
5. Water quality or quantity	No				
6. Streamflow characteristics	No				
7. Marine or estuarine resources	No				
8. Floodplains or wetlands	No				
9. Land use, including occupancy, income, values, ownership, type of use	No				
10. Rare or unusual vegetation – old growth timber, riparian, alpine	No				
11. Species of special concern (plant or animal; state or federal listed or proposed for listing) or their habitat	No				
12. Unique ecosystems, biosphere reserves, World Heritage Sites	No				Yosemite National Park is a World Heritage Site.
13. Unique or important wildlife or wildlife habitat	No				
14. Unique or important fish or fish habitat	No				
15. Introduce or promote non-native species (plant or animal)	No				
16. Recreation resources, including	No				

Identify potential effects to the following physical, natural, or cultural resources	No Effect	Negligible Effects	Minor Effects	Exceeds Minor Effects	Data Needed to Determine/Notes
supply, demand, visitation, activities, etc.					
17. Visitor experience, aesthetic resources	No				Yosemite Lodge visitors will still have access to electricity during power outages.
18. Archeological resources		Negligible			Yosemite Valley Archeological District
19. Prehistoric/historic structure	No				
20. Cultural landscapes		Negligible			Yosemite Valley Historic District and proposed eligible Yosemite Lodge Historic District; the park Historic Landscape Architect recommends screening generator from employee housing, with a design compatible with the Yosemite Lodge to further minimize the visual impact. The screen could be similar to the condenser fence.
21. Ethnographic resources	No				
22. Museum collections (objects, specimens, and archival and manuscript collections)	No				
23. Socioeconomics, including employment, occupation, income changes, tax base, infrastructure	No				
24. Minority and low income populations, ethnography, size, migration patterns, etc.	No				
25. Energy	No				

Identify potential effects to the following physical, natural, or cultural resources	No Effect	Negligible Effects	Minor Effects	Exceeds Minor Effects	Data Needed to Determine/Notes
resources					
26. Other agency or tribal land use plans or policies	No				
27. Resource, including energy, conservation potential, sustainability	No				
28. Urban quality, gateway communities, etc.	No				
29. Long-term management of resources or land/resource productivity	No				
30. Other important environment resources (e.g. geothermal, paleontological resources)?	No				

C. MANDATORY CRITERIA

Mandatory Criteria: If implemented, would the proposal:	Yes	No	N/A	Comment or Data Needed to Determine
A. Have significant impacts on public health or safety?		No		
B. Have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation, or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order 11990); floodplains (Executive Order 11988); national monuments; migratory birds; and other ecologically significant or		No		

Mandatory Criteria: If implemented, would the proposal:	Yes	No	N/A	Comment or Data Needed to Determine
critical areas?				
C. Have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources (NEPA section 102(2)(E))?		No		
D. Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks?		No		
E. Establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects?		No		
F. Have a direct relationship to other actions with individually insignificant, but cumulatively significant, environmental effects?		No		
G. Have significant impacts on properties listed or eligible for listing on the National Register of Historic Places, as determined by either the bureau or office?		No		
H. Have significant impacts on species listed or proposed to be listed on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species?		No		
I. Violate a federal law, or a state, local, or tribal law or requirement imposed for the protection of the environment?		No		
J. Have a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898)?		No		
K. Limit access to and ceremonial use of Indian sacred sites on		No		

Mandatory Criteria: If implemented, would the proposal:	Yes	No	N/A	Comment or Data Needed to Determine
federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007)?				
L. Contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112)?		No		

For the purpose of interpreting these procedures within the NPS, any action that has the potential to violate the NPS Organic Act by impairing park resources or values would constitute an action that triggers the DOI exception for actions that threaten to violate a federal law for protection of the environment.

D. OTHER INFORMATION

1. Are personnel preparing this form familiar with the site? Yes
- 1.A. Did personnel conduct a site visit? No
2. Is the project in an approved plan such as a General Management Plan or an Implementation Plan with an accompanying NEPA document? No
3. Are there any interested or affected agencies or parties? No
4. Has consultation with all affected agencies or tribes been completed? No
5. Are there any connected, cumulative, or similar actions as part of the proposed action? (*e.g., other development projects in area or identified in GMP, adequate/available utilities to accomplish project*) No

E. INTERDISCIPLINARY TEAM SIGNATORIES

<u>Interdisciplinary Team</u>	<u>Field of Expertise</u>
Don L. Neubacher	Superintendent
Kathleen Morse	Chief of Planning
Randy Fong	Chief of Project Management
Jeff Hilliard	Chief of Administration Management
Ron Borne	Chief of Facilities Management
Linda C. Mazzu	Chief of Resources Management & Science
Kris Kirby	Chief of Business and Revenue Management
Tom Medema	Chief of Interpretation and Education
Kevin Killian	Chief of Visitor and Resource Protection
Ron Gaunt	Project Leader
Madelyn Ruffner	Environmental Planning and Compliance Program Manager
Renea Kennec	NEPA Specialist

F. SUPERVISORY SIGNATORY

Based on the environmental impact information contained in the statutory compliance file and in this environmental screening form, environmental documentation for this stage of the subject project is complete.

Recommended:

Compliance Specialists	Date
<u>//Renea Kennec//</u> Compliance Specialist – Renea Kennec	<u>3/25/15</u>
<u>//Madelyn Ruffner//</u> Compliance Program Manager – Madelyn Ruffner	<u>3/30/15</u>
<u>//Randy Fong//</u> Chief, Project Management – Randy Fong	<u>3/31/15</u>

Approved:

Superintendent	Date
<u>//Don L. Neubacher//</u> Don L. Neubacher	<u>3/31/15</u>

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PARK ESF ADDENDUM

Today's Date: March 25, 2015

PROJECT INFORMATION

Park Name: Yosemite National Park
Project Title: 2015-002 Yosemite Lodge Generator Replacement
PEPC Project Number: 56597
Project Type: Equipment Replacement (EQR)
Project Location:
County, State: Mariposa, California **District:** Yosemite Valley
Project Leader: Ron Gaunt

PARK ESF ADDENDUM QUESTIONS & ANSWERS

ESF Addendum Questions	Yes	No	N/A	Data Needed to Determine/Notes
SPECIAL STATUS SPECIES CHECKLIST				
Listed or proposed threatened or endangered species (Federal or State)?		No		
Species of special concern (Federal or State)?		No		
Park rare plants or vegetation?		No		
Potential habitat for any special-status species listed above?		No		
NATIONAL HISTORIC PRESERVATION ACT CHECKLIST				
Entail ground disturbance?	Yes			Generator pad measures 24 feet long and 9 feet wide. Trenching will include 30 feet long, 24 inches wide and 42 inches deep.
Are any archeological or ethnographic sites located within the area of potential effect?		No		
Entail alteration of a historic structure or cultural landscape?		No		
Has a National Register form been completed?	Yes			Proposed Yosemite Lodge Historic District; Yosemite Valley Historic District

ESF Addendum Questions	Yes	No	N/A	Data Needed to Determine/Notes
Are there any structures on the park's List of Classified Structures in the area of potential effect?		No		
WILD AND SCENIC RIVERS ACT CHECKLIST				
Fall within a wild and scenic river corridor?	Yes			Merced River
Fall within the bed and banks AND will affect the free-flow of the river?		No		
Have the possibility of affecting water quality of the area?		No		
Remain consistent with its river segment classification?	Yes			
Fall on a tributary of a Wild and Scenic River?		No		
Will the project encroach or intrude upon the Wild and Scenic River corridor?		No		
Will the project unreasonably diminish scenic, recreational, or fish and wildlife values?		No		
WILDERNESS ACT CHECKLIST				
Within designated Wilderness?		No		
Within a Potential Wilderness Addition?		No		



ASSESSMENT OF ACTIONS HAVING AN EFFECT ON HISTORIC PROPERTIES

A. DESCRIPTION OF UNDERTAKING

1. **Park:** Yosemite National Park

2. **Project Description:**

Project Name: 2015-002 Yosemite Lodge Generator Replacement

Prepared by: Renea Kennec **Date Prepared:** 03/24/2015 **Telephone:** 209-379-1038

PEPC Project Number: 56597

Area of potential effects (as defined in 36 CFR 800.16[d])

Proposed Yosemite Lodge Historic District; Yosemite Valley Historic District; Yosemite Valley Archeological District

3. **Has the area of potential effects been surveyed to identify historic properties?**

☐ No

☒ Yes

Source or reference:

4. **Potentially Affected Resources:**

Archeological resources affected:

Name and numbers: Yosemite Valley Archeological District

NR status: 1 - Listed in Register and documented

Historical Structures/Resources Affected:

Name and numbers: Yosemite Valley Historic District

NR status: 1 - Listed in Register and documented

Name and numbers: Yosemite Lodge Historic District - Determination of Eligibility in process

NR status: 5 - Found eligible for 106 purposes pending consultation with the SHPO

Historical Structures/Resources Notes: The park Historic Landscape Architect recommends screening generator from employee housing, with a design compatible with the Yosemite Lodge to further minimize the visual impact. The screen could be similar to the condenser fence.

Ethnographic Resources Affected:

Name and numbers: Resources of Religious and Cultural Significance

5. The proposed action will: (check as many as apply)

- ☐ No Destroy, remove, or alter features/elements from a historic structure
- ☐ No Replace historic features/elements in kind
- ☐ No Add non-historic features/elements to a historic structure
- ☐ No Alter or remove features/elements of a historic setting or environment (inc. terrain)
- ☐ Yes Add non-historic features/elements (inc. visual, audible, or atmospheric) to a historic setting or cultural landscape
- ☐ No Disturb, destroy, or make archeological resources inaccessible
- ☐ No Disturb, destroy, or make ethnographic resources inaccessible
- ☐ Yes Potentially affect presently unidentified cultural resources
- ☐ No Begin or contribute to deterioration of historic features, terrain, setting, landscape elements, or archeological or ethnographic resources
- ☐ No Involve a real property transaction (exchange, sale, or lease of land or structures)
- ☐ Other (please specify): _____

6. Supporting Study Data:

(Attach if feasible; if action is in a plan, EA or EIS, give name and project or page number.)

B. REVIEWS BY CULTURAL RESOURCE SPECIALISTS

The park 106 coordinator requested review by the park's cultural resource specialist/advisors as indicated by check-off boxes or as follows:

[X] Archeologist

Name: Sonny Montague

Date: 03/25/2015

Check if project does not involve ground disturbance []

Assessment of Effect: ☐ No Potential to Cause Effect ☒ No Historic Properties Affected ☐ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

Doc Method: Park Specific Programmatic Agreement

[X] Anthropologist

Name: Brian Lefler

Date: 03/26/2015

Comments: Mike Turek reviewed and agrees with Jennifer Hardin - "No archeological or tribal concerns".

Check if project does not involve ground disturbance []

Assessment of Effect: ☐ No Potential to Cause Effect ☒ No Historic Properties Affected ☐ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

Assessment of Effect Form - Yosemite Lodge Generator Replacement - PEPC ID: 56597

Doc Method: Park Specific Programmatic Agreement

☒ Historical Architect

Name: Randy Fong

Date: 03/25/2015

Comments: No comments

Check if project does not involve ground disturbance ☐

Assessment of Effect: ☐ No Potential to Cause Effect ☐ No Historic Properties Affected ☒ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

☒ Historical Landscape Architect

Name: Kevin McCardle

Date: 03/25/2015

Check if project does not involve ground disturbance ☐

Assessment of Effect: ☐ No Potential to Cause Effect ☐ No Historic Properties Affected ☒ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations: Recommend screening generator from employee housing, with a design compatible with the Lodge to further minimize the visual impact. It could be similar to the fence around the condenser it will be next to.

Doc Method: Park Specific Programmatic Agreement

No Reviews From: Curator, Historian, 106 Advisor, Other Advisor, Anthropologist

C. PARK SECTION 106 COORDINATOR'S REVIEW AND RECOMMENDATIONS

1. Assessment of Effect:

☐ No Potential to Cause Effects

☐ No Historic Properties Affected

☒ No Adverse Effect

☐ Adverse Effect

2. Documentation Method:

☐ A. STANDARD 36 CFR PART 800 CONSULTATION

Further consultation under 36 CFR Part 800 is needed.

☐ B. STREAMLINED REVIEW UNDER THE 2008 SERVICEWIDE PROGRAMMATIC AGREEMENT (PA)

The above action meets all conditions for a streamlined review under section III of the 2008 Servicewide PA for Section 106 compliance.

Assessment of Effect Form - Yosemite Lodge Generator Replacement - PEPC ID: 56597

APPLICABLE STREAMLINED REVIEW Criteria
(Specify 1-16 of the list of streamlined review criteria.)

☐ C. PLAN-RELATED UNDERTAKING

Consultation and review of the proposed undertaking were completed in the context of a plan review process, in accordance with the 2008 Servicewide PA and 36 CFR Part 800.

Specify plan/EA/EIS:

☒ D. UNDERTAKING RELATED TO ANOTHER AGREEMENT

The proposed undertaking is covered for Section 106 purposes under another document such as a statewide agreement established in accord with 36 CFR 800.7 or counterpart regulations.

1999 Programmatic Agreement as amended in 2014

☐ E. COMBINED NEPA/NHPA Document

Documentation is required for the preparation of an EA/FONSI or an EIS/ROD has been developed and used so as also to meet the requirements of 36 CFR 800.3 through 800.6

☐ G. Memo to SHPO/THPO

☐ H. Memo to ACHP

SHPO/THPO Notes:

3. Additional Consulting Parties Information:

Additional Consulting Parties: No

4. Stipulations and Conditions:

Following are listed any stipulations or conditions necessary to ensure that the assessment of effect above is consistent with 36 CFR Part 800 criteria of effect or to avoid or reduce potential adverse effects.

5. Mitigations/Treatment Measures:

Measures to prevent or minimize loss or impairment of historic/prehistoric properties:
(Remember that setting, location, and use may be relevant.)

- **Assessment of Effect - Recommend screening generator from employee housing, with a design compatible with the Yosemite Lodge to further minimize the visual impact. The screen could be similar to the condenser fence.**

D. RECOMMENDED BY PARK SECTION 106 COORDINATOR:

Historic Preservation Officer:

Kimball

Koch

//Kimball Koch//

Date: 3/26/15

E. SUPERINTENDENT'S APPROVAL

The proposed work conforms to the NPS *Management Policies* and *Cultural Resource Management Guideline*, and I have reviewed and approve the recommendations, stipulations, or conditions noted in Section C of this form.

Superintendent: //Don L. Neubacher//

Date: 4/1/15

Don L. Neubacher

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Environmental Planning and Compliance Office in
Yosemite National Park.*

Chiller Tower Fence

Estimated foot print
includes concrete pad

10 ft

24 ft

9 ft

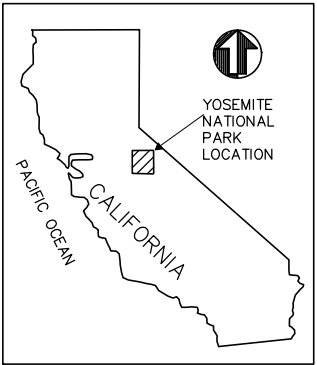
**Proposed Location for new
Yosemite Lodge Generator**

YOSEMITE NATIONAL PARK

DRAWINGS FOR:

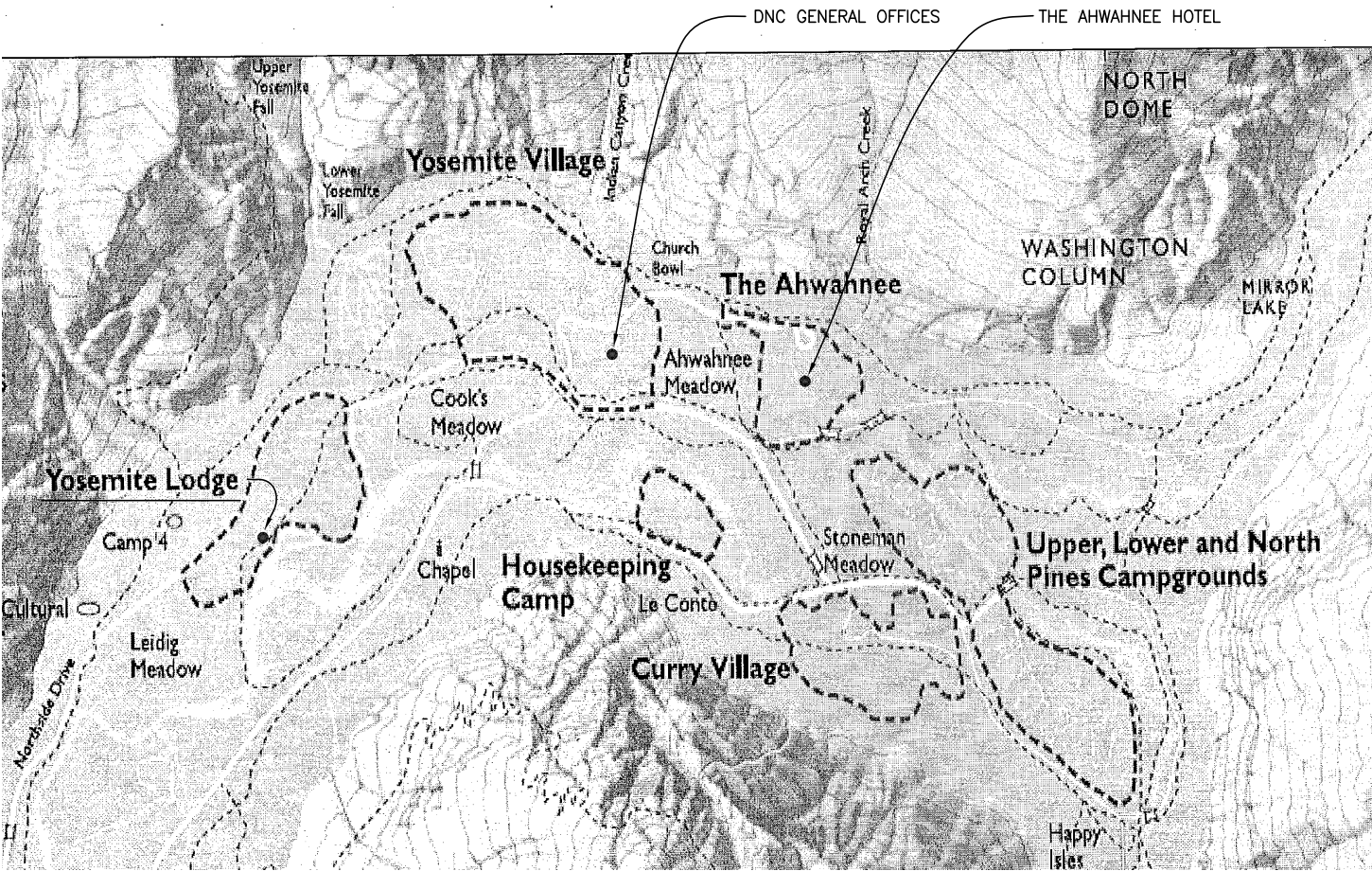
GENERATOR REPLACEMENT TO DNC

YOSEMITE LODGE

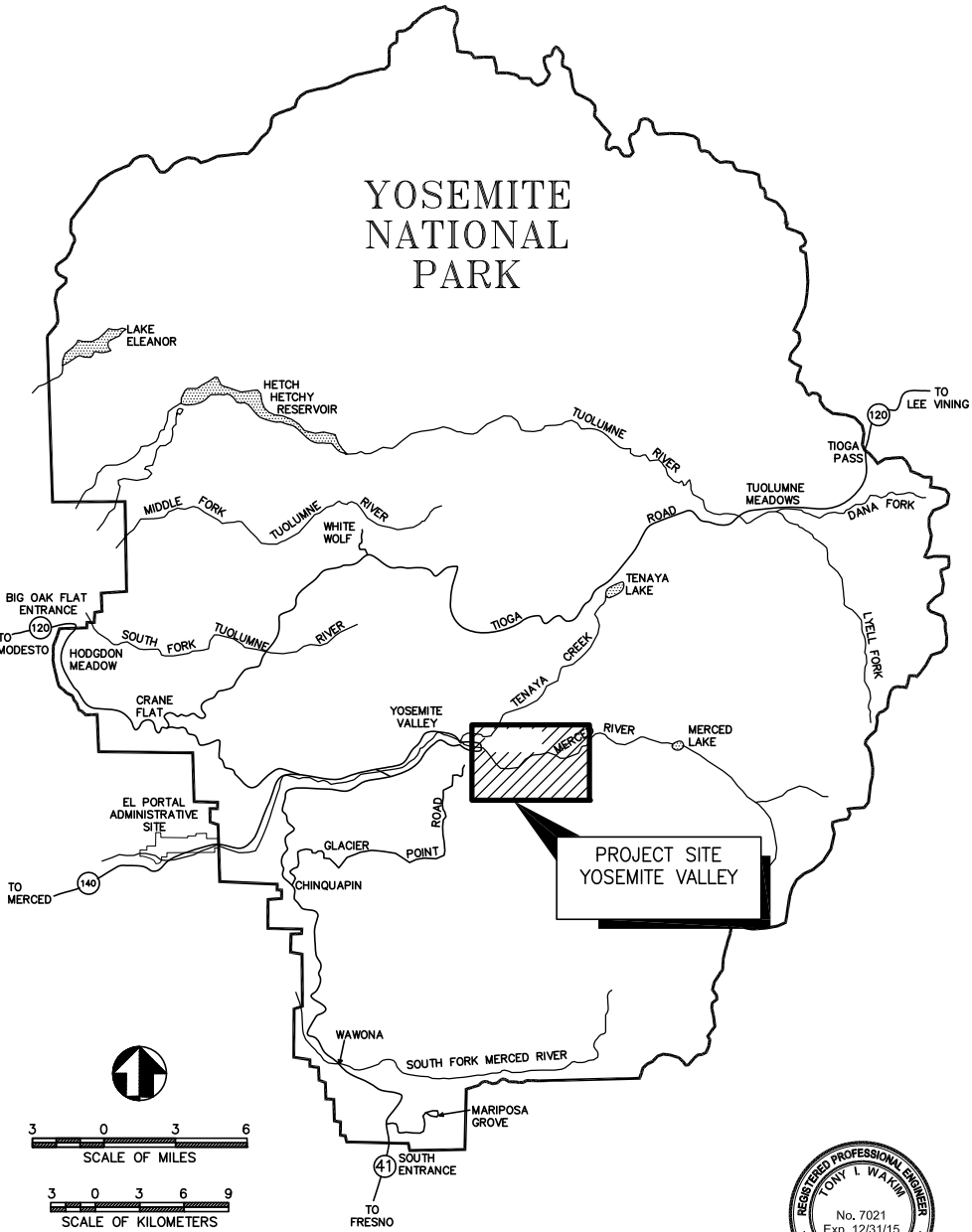


APPENDIX A-VICINITY MAP

PROJECT TITLE: CIF 5034-YOSEMITE LODGE-EMERGENCY GENERATOR



DRAWING INDEX		
SHEET	SUB SHEET	TITLE OF SHEET
1	G1	GENERAL PROJECT SHEETS
2	E1	YOSEMITE LODGE ABBREVIATIONS AND SYMBOLS
3	E2	YOSEMITE LODGE SINGLE LINE DIAGRAM
4	E3	YOSEMITE LODGE GENERATOR ROOM DEMOLITION PLAN
5	E4	YOSEMITE LODGE GENERATOR ELECTRICAL PLAN
6	M1	YOSEMITE LODGE GENERATOR ROOM MECHANICAL PLAN
7	M2	YOSEMITE LODGE GENERATOR ROOM MECHANICAL PLAN
8	S1	YOSEMITE LODGE STRUCTURAL GENENERAL NOTES PAD PLAN AND SECTION



DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO
WORKING DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT(USA) OF SOUTHERN CALIFORNIA

Mark	Sheet	REVISION	Date	Initial

Kennedy/Jenks Consultants
303 SECOND STREET
SUITE 300 SOUTH
SAN FRANCISCO, CALIFORNIA 94107
TELEPHONE (415) 243-2150
FAX (415) 896-0999
K/J JOB #1456001

DESIGNED:
WL
GABP
WL
TECH. REVIEW:
TIW
DATE:
JAN 2015

SUB SHEET NO.
G1







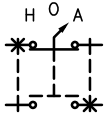


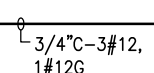






CONSTRUCTION DRAWINGS


UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YOSEMITE NATIONAL PARK


TITLE OF SHEET
DNC General Office Main Replacement
LOCATION WITHIN PARK
GENERAL OFFICE, YOSEMITE VALLEY
NAME OF PARK
YOSEMITE NATIONAL PARK

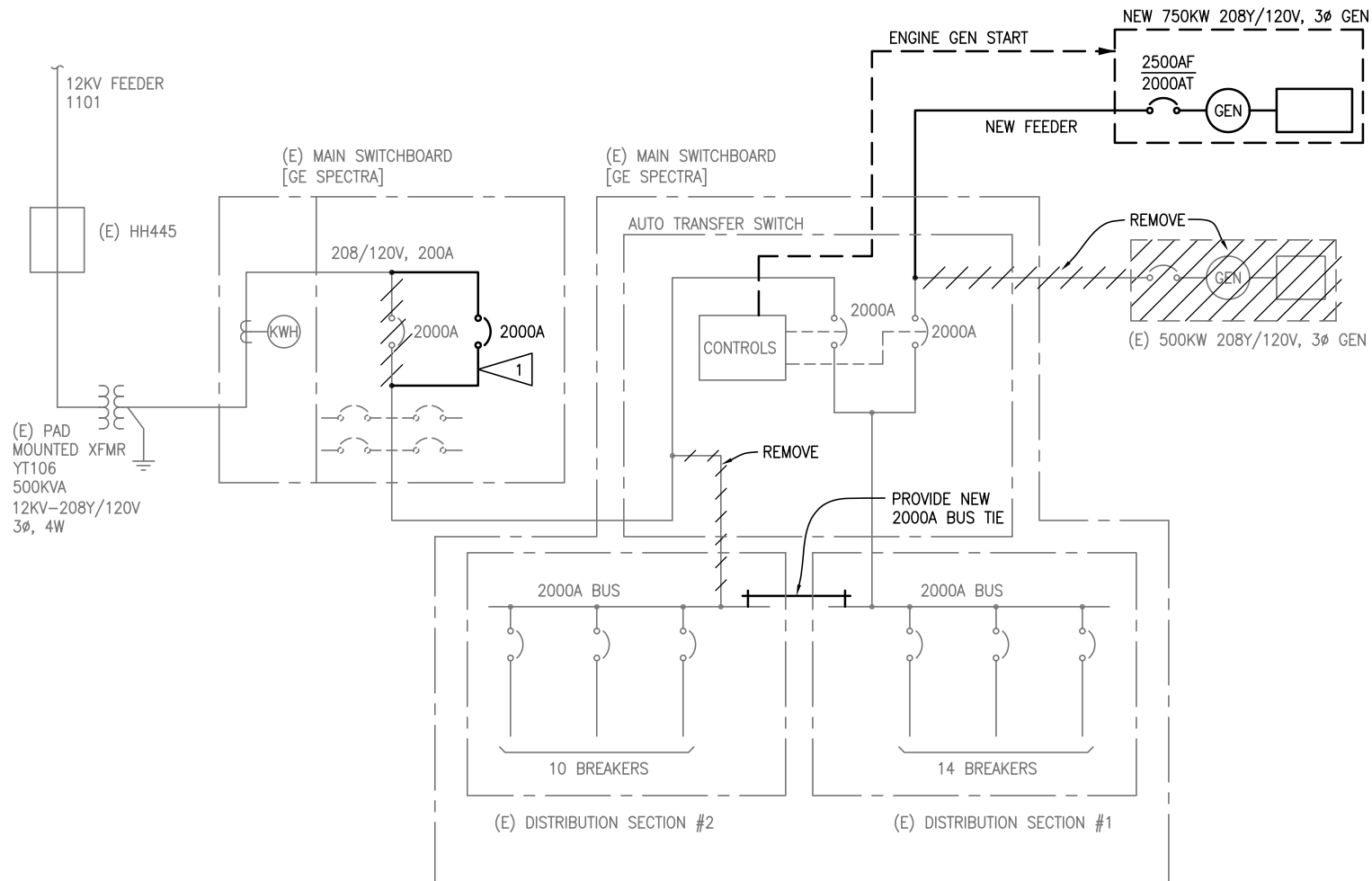
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CIF 5101
SHEET
1
OF **8**

ABBREVIATIONS				PLAN SYMBOLS		SINGLE LINE SYMBOLS		ELEMENTARY DIAGRAM SYMBOLS	
A	AMMETER, AMPERES	mA	MILLIAMPERES		UNDERGROUND CONDUIT CONCRETE ENCASEMENT, SEE NOTE P3		GROUND CONNECTION		CONTROL DEVICE COIL. PREFIX NUMBER, WHEN USED, DISTINGUISHES BETWEEN DEVICES OF THE SAME TYPE.
AF	AMPERE FRAME	MAX	MAXIMUM		UNDERGROUND CONDUIT DIRECT BURIED SEE NOTE P3		SWITCH, 3 POLE EXCEPT WHERE NOTED. RATING IN AMPERES AS NOTED	** ALT - ALTERNATOR	LR - LATCH RELAY
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER					CR - CONTROL RELAY	SV - SOLENOID VALVE
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CIRCUIT PROTECTOR				AUTOMATIC TRANSFER SWITCH 3 POLE, RATING AS NOTED	GR - GENERAL RELAY	PR - PROBE RELAY
ATS	AUTOMATIC TRANSFER SWITCH	MFR	MANUFACTURER					ISR - INTRINSICALLY SAFE RELAY	TR - TIMING RELAY
BCG	BARE COPPER GROUND	MIN	MINIMUM						
BLDG	BUILDING	MISC	MISCELLANEOUS						HAND-OFF-AUTOMATIC SWITCH X-INDICATES CONTACTS CLOSED
C	CONDUIT	MS	MOTOR STARTER						
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE						
CKT	CIRCUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.						
CO	CONDUIT ONLY								
CONC	CONCRETE	PB	PULLBOX				MCP 00AT		
CP	CONTROL PANEL	PH	PHASE						
CT	CURRENT TRANSFORMER	PNLBD	PANELBOARD						
DISC	DISCONNECT	(RL)	RELOCATE				000AT 000AF		
DISTR	DISTRIBUTION	(RLD)	RELOCATED						
DP	DISTRIBUTION PANEL	SPECS	SPECIFICATIONS		CALLOUT INDICATING CONDUIT SIZE, NUMBER OF WIRES AND WIRE SIZE 3/4"C-3#12, 1#12G				
(E)	EXISTING	SWBD	SWITCHBOARD						
EF	EXHAUST FAN	SWGR	SWITCHGEAR				CURRENT TRANSFORMER RATING AS NOTED		
ELEC	ELECTRIC, ELECTRICAL	TSP	TWISTED SHIELDED PAIR						
EMERG	EMERGENCY	TYP	TYPICAL				* A - AMMETER V - VOLTMETER WH - WATTHOUR METER W - WATTMETER VAR - VARMETER 50/51 - OVERCURRENT METER KWH - KILOWATT HOURS		
EQPT	EQUIPMENT	UG	UNDERGROUND						MOTOR
FDR	FEEDER	V	VOLTS						INDICATING LIGHT
GALV	GALVANIZED	VA	VOLT-AMPERES						
GEN	GENERATOR	VS	VOLTMETER SWITCH						
GFI	GROUND FAULT INTERRUPTER	W	WIRE, WATTS						
G, GND	GROUND	WHM	WATTHOUR METER						
GRS	GALVANIZED RIGID STEEL	WHDM	WATTHOUR DEMAND METER						
HH	HANDHOLE	WP	WEATHERPROOF						
HZ	HERTZ (CYCLES PER SECOND)	XFMR	TRANSFORMER						
JB	JUNCTION BOX								
KCMIL	THOUSANDS OF CIRCULAR MILS								
KV	KILOVOLTS								
KVA	KILOVOLT AMPERES								
KW	KILOWATTS								
KWH	KILOWATT HOURS								
LP	LIGHTING PANEL								

GENERAL NOTES:		PLAN NOTES:	
G1.THESE DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATIONS OF ELECTRICAL EQUIPMENT SHALL BE DETERMINED IN THE FIELD BY THE PROJECT MANAGER. THE INSTALLATION OF ALL EQUIPMENT SHOWN ON THESE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITIONS OF ALL APPLICABLE CODES AND UTILITY COMPANY STANDARDS. CONTACT THE UTILITY COMPANY REPRESENTATIVES AND VERIFY THEIR REQUIREMENTS.		P1. CONDUIT SIZE AND FILL SHALL BE AS INDICATED. WHERE NO SIZE IS SHOWN, THE CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY THE AUTHORITY HAVING CODE ENFORCEMENT JURISDICTION. WHERE NO FILL IS INDICATED, THE FILL SHALL BE 2#12. PROVIDE 3/16 INCH NYLON PULL ROPE IN EACH EMPTY CONDUIT.	
G2. THIS IS A GENERALIZED LEGEND SHEET. THIS CONTRACT MAY NOT USE ALL INFORMATION SHOWN.		P2. CONDUIT AND WIRE LAYOUT FOR LIGHTING AND RECEPTACLES NOT SHOWN. PROVIDE PER NEC.	
G3. NOTIFY THE PROJECT MANAGER IMMEDIATELY IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED OR IF PROBLEMS ARISE DUE TO FIELD CONDITIONS, LACK OF INFORMATION OR ANY OTHER REASON. NO PAYMENT WILL BE MADE FOR CHANGES WHICH HAVE NOT BEEN FAVORABLY REVIEWED BY THE CONTRACTING OFFICER.		P3. NUMBER OF CIRCLES DOES NOT REPRESENT THE NUMBER OF CONDUITS IN THE ENCASEMENT.	
G4. INFORMATION SHOWN MAY NOT BE ALL INCLUSIVE. SEE ALSO ANSI C37.2, Y1.1, Y32.2, AND Y32.9.			
G5. VERIFY ALL COLOR REQUIREMENTS BEFORE ORDERING MATERIALS.			
G6. REFER TO THE MECHANICAL DRAWINGS FOR CERTAIN CONTROL DIAGRAMS AND EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND FOR CERTAIN CONNECTIONS TO BE MADE TO ELECTRICAL CIRCUITS.			
G7. ALL NEW PRIMARY VOLTAGE CABLES SHALL HAVE A MINIMUM RADIUS OF 20 FEET FOR ALL BENDS.			

Kennedy/Jenks Consultants 303 SECOND STREET SUITE 300 SOUTH SAN FRANCISCO, CALIFORNIA 94107 TELEPHONE (415) 243-2150 FAX (415) 896-0999 K/J JOB #1456001	DESIGNED: TIW	SUB SHEET NO. E1	TITLE OF SHEET YOSEMITE LODGE ABBREVIATIONS AND SYMBOLS DNC YOSEMITE VALLEY	DRAWING NO. — — C/F 4817 — — SHEET 2 OF 8
	 WL			
	TECH. REVIEW: TIW			
	DATE: JAN 2015			





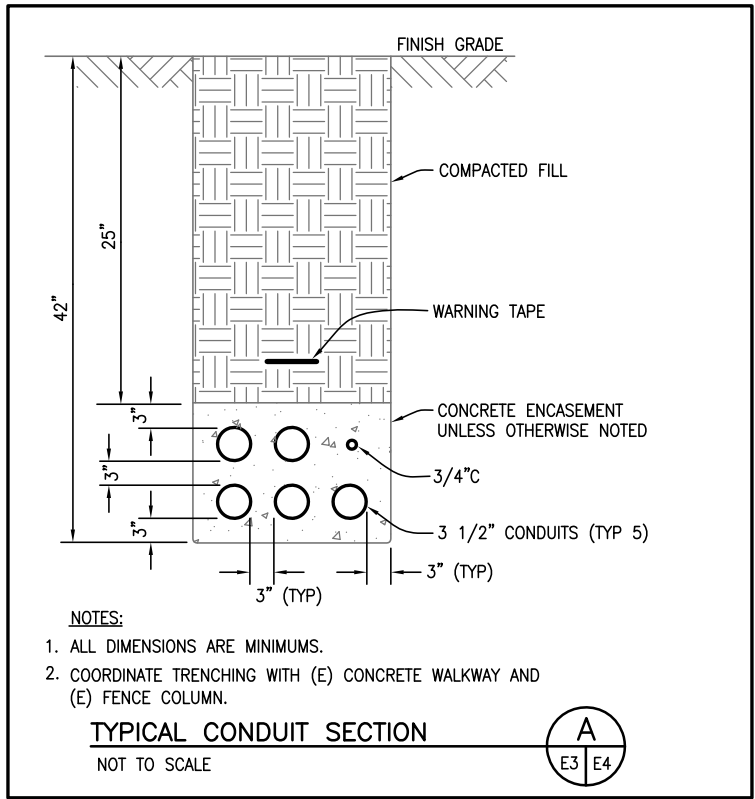
YOSEMITE LODGE SINGLE LINE DIAGRAM

NOTES:

- 1 REPLACE EXISTING 2000A GENERAL ELECTRIC INSULATED CASE CIRCUIT BREAKER, SEE SPECIFICATIONS. ALLOW NO MORE THAN 4-HOURS SHUTDOWN DURING 12AM TO 7AM.



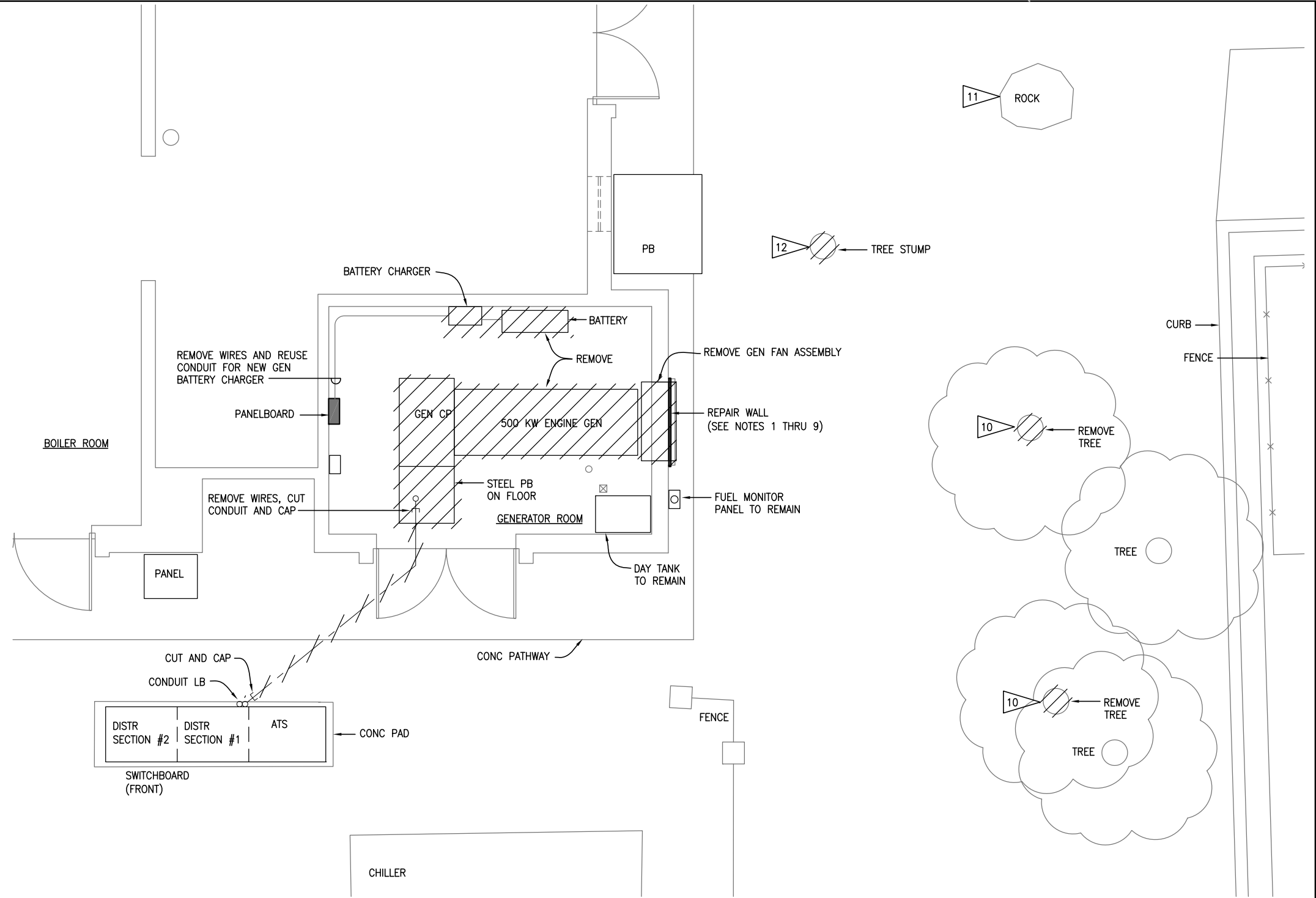
Kennedy/Jenks Consultants 303 SECOND STREET SUITE 300 SOUTH SAN FRANCISCO, CALIFORNIA 94107 TELEPHONE (415) 243-2150 FAX (415) 896-0999 K/J JOB #1456001	DESIGNED: TIW	SUB SHEET NO. E2	TITLE OF SHEET YOSEMITE LODGE SINGLE LINE DIAGRAM DNC YOSEMITE VALLEY	DRAWING NO. —	
	WLB			CIF	SHEET
	WL			4817	3
	TECH. REVIEW: TIW DATE: JAN 2015			—	OF 8



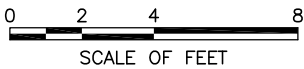
NOTES:

- EXISTING WALL: VERIFY THE WALL CONSTRUCTION PRIOR TO PROCEEDING. THE EXISTING WALL IS A CMU WALL WITH T1-11 SIDING OVER FURRING.
- FRAMING: 2 BY 6 DOUGLAS FIR CONSTRUCTION GRADE. ADD BOTTOM AND TOP PLATE, JACK STUDS AT JAMB AND VERTICAL STUDS ALIGNED WITH FURRING ABOVE EXISTING OPENING.
- FASTENERS: FASTEN THE TOP PLATE, BOTTOM PLATE AND JACK STUDS TO THE CMU WALL WITH HOT-DIPPED GALVANIZED 3/8-INCH DIAMETER CONCRETE SCREW ANCHORS WITH 3-INCH MINIMUM EMBED SPACED AT 16 INCHES ON CENTER. USE HOT-DIPPED GALVANIZED 16D NAILS FOR STRAIGHT NAILING WITH MINIMUM 2 PER CONNECTION. TOE NAILS SHALL BE HOT DIPPED GALVANIZED 8D NAILS WITH A MINIMUM OF 3 PER CONNECTION.
- VAPOR BARRIER: INSTALL #30 BUILDING FELT BETWEEN SIDING AND STUDS. LAP JOINTS 4-INCH LAP HORIZONTALLY.
- EXTERIOR SIDING: PROVIDE T1-11 PLYWOOD SIDING MATCHING EXISTING VERTICAL PATTERN AND ROUGH SAWN TEXTURE. MATCH EXISTING PANEL THICKNESS. REMOVE EXISTING T1-11 SIDING AS REQUIRED TO INSTALL A COMPLETE SHEETS. THREE SHEETS MAY BE REQUIRED. DO NOT SPLICE PARTIAL SHEETS. INSTALL EDGE FLASHING AS REQUIRED.
- INTERIOR SHEATHING: 1/2-INCH THICK CDX PLYWOOD, PLUGGED SIDE EXPOSED. INSTALL TO STUDS WITH HOT-DIPPED GALVANIZED 8D NAILS AT 12 INCH ON CENTER. INSTALL SEALANT AT EDGES.
- EXTERIOR FINISH: APPLY ONE COAT OF PRIMER AND TWO COATS OF FLAT ACRYLIC HOUSE PAINT MATCHING THE EXISTING TAN COLOR. PAINT THE ENTIRE SECTION OF WALL (APPROXIMATELY 12 FEET LONG), FULL HEIGHT.
- INTERIOR FINISH: APPLY ONE COAT OF PRIMER AND TWO COATS OF SEMI-GLOSS ACRYLIC ENAMEL TO THE PLYWOOD SHEATHING. MATCHING THE EXISTING CMU COLOR.
- EXISTING SURFACE MOUNTED CABLE: PROTECT AND RECONNECT EXPOSED SURFACE MOUNTED COMMUNICATION CABLES TO NEW T1-11 PANELS.

- 10 TREE REMOVAL SHALL BE PERFORMED UNDER THIS CONTRACT BY A QUALIFIED COMPANY APPROVED BY DELWARE NORTH.
- 11 REMOVE ROCK AS NEEDED FOR NEW GEN CONC PAD CONSTRUCTION CLEARANCE.
- 12 TREE ROOTS MAY INTERFERE WITH NEW GEN CONC PAD INSTALLATION, REMOVE TREE STUMP AS NEEDED.



EXISTING ELECTRICAL FLOOR PLAN - DEMOLITION
SCALE: 3/8" = 1'-0"



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K/J JOB #1456001

DESIGNED:
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TECH. REVIEW:
TIW
DATE:
JAN 2015

SUB SHEET NO.
E3

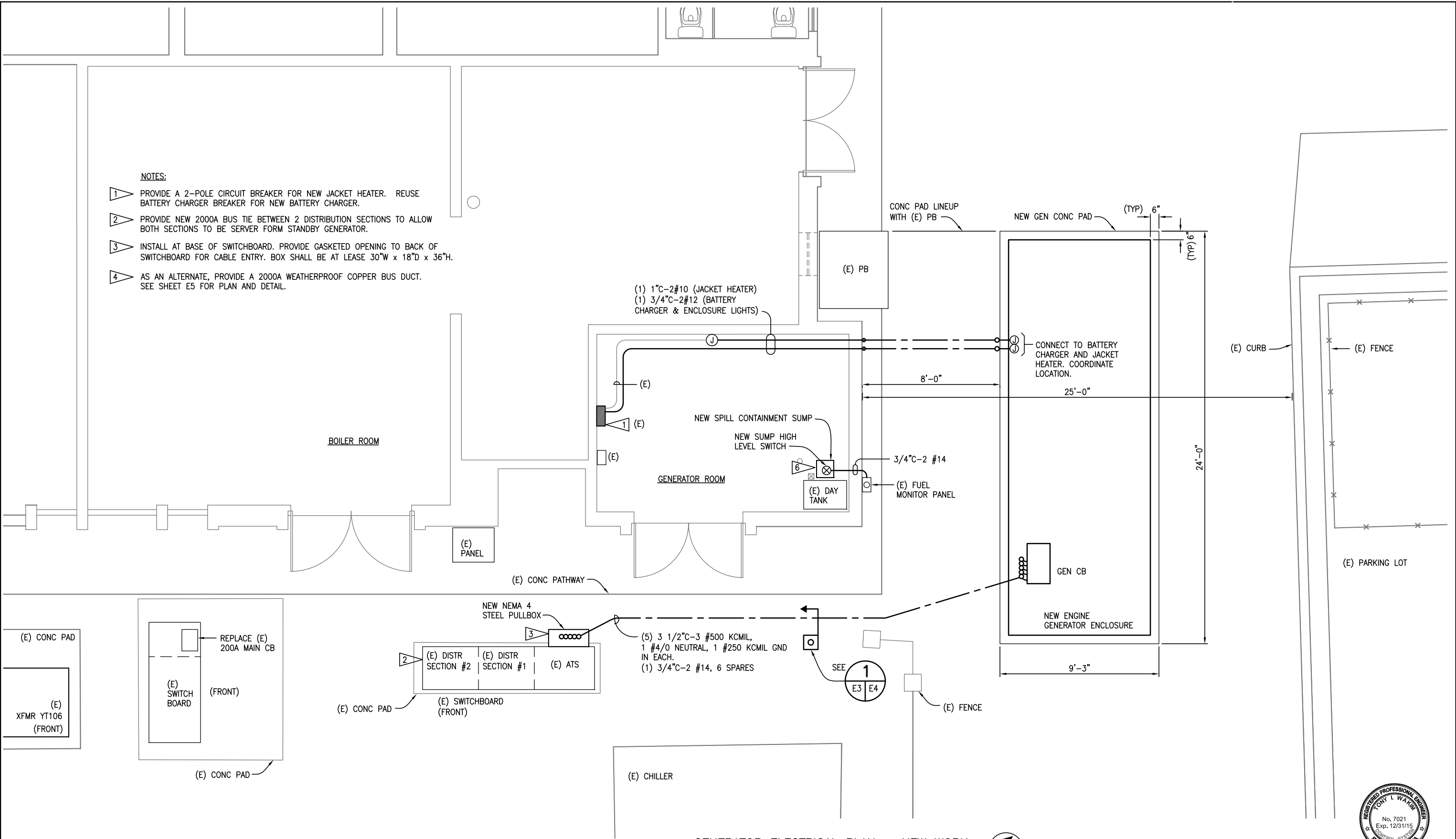
TITLE OF SHEET
**YOSEMITE LODGE
GENERATOR ROOM
DEMOLITION PLAN**
DNC YOSEMITE VALLEY

DRAWING NO.
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C/F 4817
SHEET
4
OF **8**

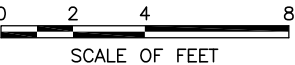


NOTES:

- 1 PROVIDE A 2-POLE CIRCUIT BREAKER FOR NEW JACKET HEATER. REUSE BATTERY CHARGER BREAKER FOR NEW BATTERY CHARGER.
- 2 PROVIDE NEW 2000A BUS TIE BETWEEN 2 DISTRIBUTION SECTIONS TO ALLOW BOTH SECTIONS TO BE SERVER FORM STANDBY GENERATOR.
- 3 INSTALL AT BASE OF SWITCHBOARD. PROVIDE GASKETED OPENING TO BACK OF SWITCHBOARD FOR CABLE ENTRY. BOX SHALL BE AT LEASE 30"W x 18"D x 36"H.
- 4 AS AN ALTERNATE, PROVIDE A 2000A WEATHERPROOF COPPER BUS DUCT. SEE SHEET E5 FOR PLAN AND DETAIL.



GENERATOR ELECTRICAL PLAN - NEW WORK
SCALE: 3/8"=1'-0"



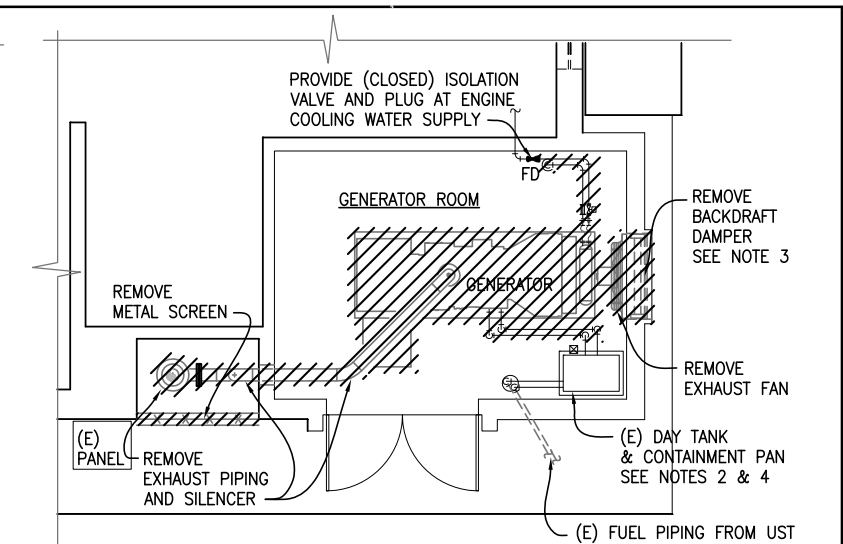
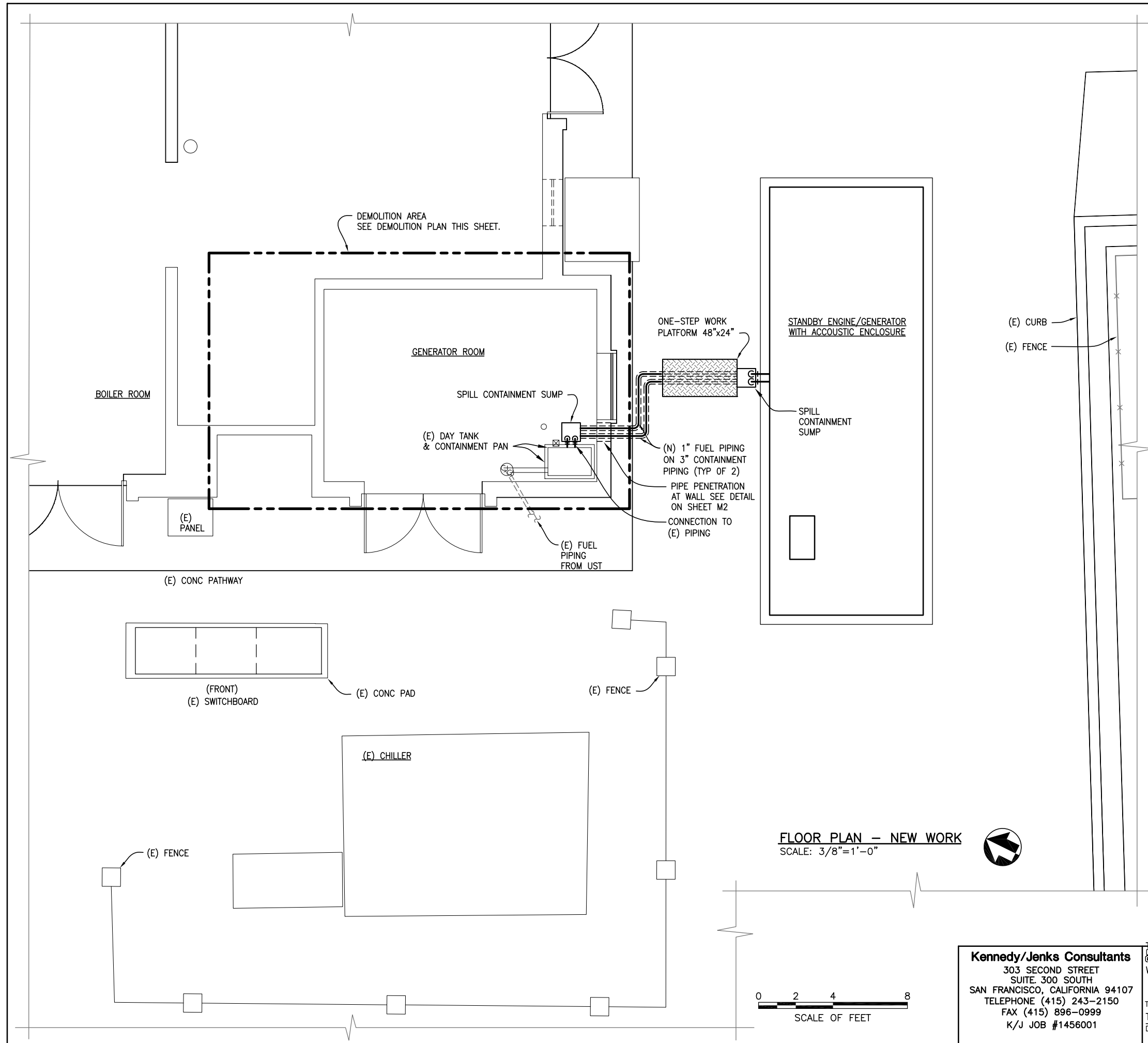
Kennedy/Jenks Consultants
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SUB SHEET NO.
E4

TITLE OF SHEET
**YOSEMITE LODGE
GENERATOR ELECTRICAL
PLAN**
DNC YOSEMITE VALLEY

DRAWING NO.
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C/F 4817
SHEET
5
OF **8**



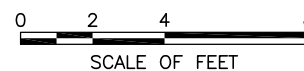
FLOOR PLAN — DEMOLITION
SCALE: 1/4"=1'-0"



DEMOLITION NOTES:

1. COORDINATE REMOVAL OF EXISTING ENGINE GENERATOR, INCLUDING EXHAUST FAN, COOLING WATER, AND ENGINE EXHAUST SYSTEMS WITH SUCCESSFUL TESTING OF NEW ENGINE-GENERATOR
2. REMOVAL OF FUEL PIPING BETWEEN DAY TANK AND EXISTING ENGINE-GENERATOR TO BE COORDINATED WITH INSTALLATION OF NEW ENGINE-GENERATOR. DO NOT REMOVE PIPE PRIOR TO SETTING OF NEW ENGINE-GENERATOR.
3. REFER TO DRAWING E3 FOR DESCRIPTION OF REPAIRS TO WALL OPENING UPON DAMPER REMOVAL.
4. RETAIN EXISTING FUEL SUPPLY PIPING FROM UNDERGROUND STORAGE TANK (UST) TO DAY TANK. MAINTAIN ROUTING OF EXISTING OVERFLOW PIPING FROM DAY TANK INTO CONTAINMENT PAN.

FLOOR PLAN — NEW WORK
SCALE: 3/8"=1'-0"



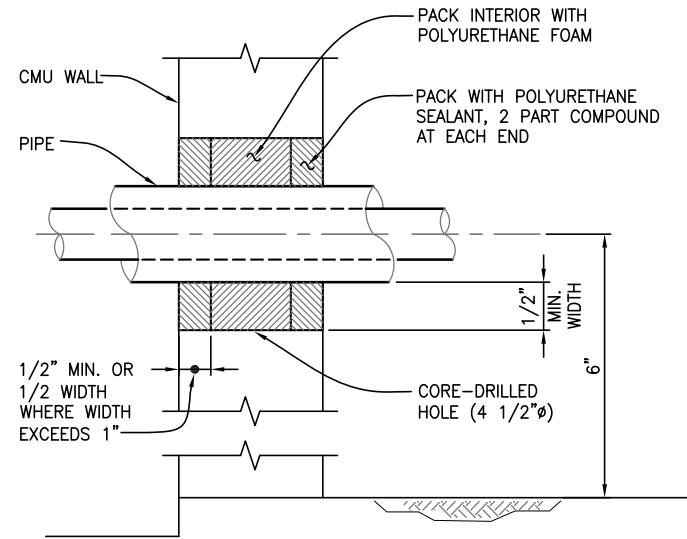
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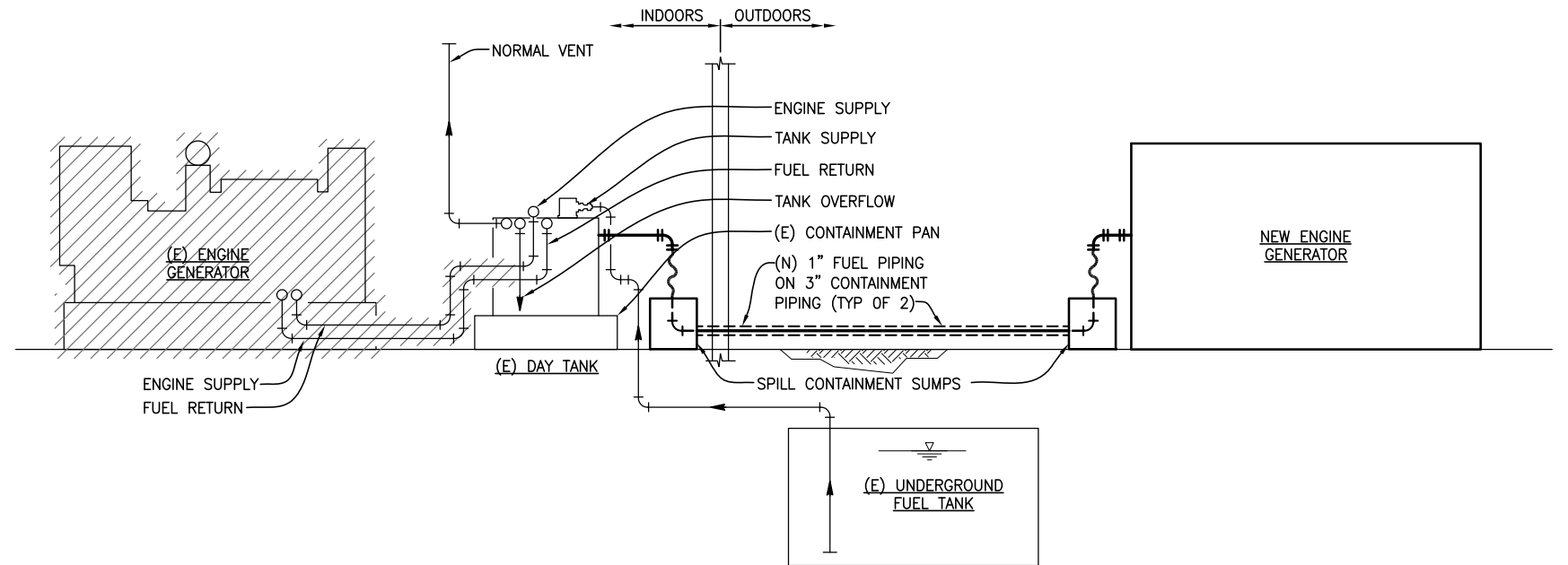
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M1

TITLE OF SHEET
**YOSEMITE LODGE
GENERATOR ROOM
MECHANICAL PLAN**
DNC YOSEMITE VALLEY

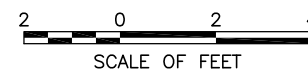
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WALL PENETRATION DETAIL
SCALE: NONE



FUEL PIPING SCHEMATIC
SCALE: NONE



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	TECH. REVIEW:			
	DATE:			
	JAN 2015			

GENERAL STRUCTURAL NOTES

GENERAL

- DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING CODE.
- THESE NOTES AS WELL AS THE TYPICAL DETAILS APPLY TO ALL PARTS OF THE PROJECT, UNLESS NOTED OTHERWISE.
- DIMENSIONS NOTED WITH AN ASTERISK, " * ", ARE TO BE COORDINATED IN THE FIELD BY THE CONTRACTOR.

PERMITS AND INSPECTIONS

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED BY THE LOCAL BUILDING INSPECTOR AND AS DESCRIBED IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL SELECT, INSTALL AND MAINTAIN SHORING, SHEETING, BRACING AND SLOPING AS NECESSARY TO MAINTAIN SAFE EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING FULL COMPLIANCE WITH 29 CFR PART 1926 OSHA SUBPART P EXCAVATIONS AND TRENCHES REQUIREMENTS. ALL EARTHWORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE LAW, INCLUDING LOCAL ORDINANCES, AND APPLICABLE OSHA REQUIREMENTS.

SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS

- SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH CBC 2013, SECTION 1704.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48-HOURS BEFORE PLACEMENT OF REINFORCING STEEL AND CONCRETE SO THAT THE SUBGRADE OF EXCAVATIONS MAY BE INSPECTED BY THE GEOTECHNICAL ENGINEER.

SOIL AND FOUNDATIONS

- IN ACCORDANCE WITH THE CBC CHAPTER 18 THE SOILS AT YOSEMITE LODGE ARE GENERALLY CLASSIFIED AS SAND.
- THE DESIGN BEARING CAPACITY OF THE SOILS IS 2,000 PSF FOR FOOTINGS. BEARING CAPACITY OF SOILS ARE FOR DEAD AND LIVE LOADS FOR FOUNDATIONS. BEARING VALUES MAY BE INCREASED BY ONE-THIRD WHEN TRANSIENT LOADS SUCH AS WIND OR SEISMIC LOADS ARE INCLUDED.
- SOILS SHALL BE EXCAVATED TO THE ELEVATIONS INDICATED ON THE DRAWINGS FOR FOUNDATIONS. THE SUBGRADE SHALL BE PREPARED AS INDICATED ON THE DRAWINGS. EXCAVATED MATERIAL SHALL BE REPLACED WITH STRUCTURAL FILL AS SHOWN ON THE DRAWINGS. FOUNDATIONS SHALL BE CONSTRUCTED AGAINST CRUSHED ROCK.

REINFORCING STEEL

- REINFORCING BARS SHALL BE ASTM A615--GRADE 60.
- ARANGEMENT AND DETAILING OF REINFORCING STEEL, INCLUDING BAR SUPPORTS AND SPACERS, SHALL BE IN ACCORDANCE WITH THE LATEST ACI 315 DETAILING MANUAL.
- REINFORCING SHALL LAP IN ACCORDANCE WITH ACI 318--08.
- DIMENSIONS TO REINFORCING ARE TO BAR CENTERLINES, UNLESS NOTED OTHERWISE. BAR COVER IS CLEAR DISTANCE BETWEEN THE BAR AND THE CONCRETE SURFACE. UNLESS SHOWN OTHERWISE BAR COVER SHALL NOT BE LESS THAN, UNLESS OTHERWISE SHOWN ON THE DRAWINGS:

SURFACES EXPOSED TO EARTH, WATER, OR WEATHER	2-INCH
SLAB BOTTOMS AND SIDES IN CONTACT WITH EARTH	3-INCH

CONCRETE:

- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI AS MEASURED IN ACCORDANCE WITH ASTM C39.
- MIX DESIGN

FIELD TEST RECORDS:	SUBMIT IN ACCORDANCE WITH ACI 318 CHAPTER 5.3
WATER/CEMENT RATIO:	0.50 MAX
AIR CONTENT:	4% +/- 1% IN ACCORDANCE W/ ASTM C231
SLUMP:	3 TO 4 INCHES IN ACCORDANCE W/ ASTM C143
SHRINKAGE:	0.05% IN ACCORDANCE W/ ASTM C157
- CEMENTITIOUS MATERIALS

MINIMUM CONTENT:	570 LBS/CU YD
PORTLAND CEMENT:	ASTM C150, TYPE II LOW ALKALI
FLYASH:	ASTM C618, CLASS F, NOT TO EXCEED 20% OF TOTAL CEMENTITIOUS MATERIALS
- AGGREGATE

COARSE:	CONFORM TO ASTM C33, 1-INCH MAX AGGREGATE
FINE:	CONFORM TO TABLE 1 OF ASTM C33
- ADMIXTURES

AIR ENTRAINING:	ASTM C260
WATER REDUCING:	ASTM C494, TYPE A
- CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301--10, 318--08, AND ACI 347.
- CONCRETE SHALL BE PLACED AND CURED BETWEEN 50 AND 90 DEGREES F.
- PROVIDE SF--2.0 FINISH AT FORMED SURFACES IN ACCORDANCE WITH ACI 301.
- PROVIDE TROWEL FINISH AT HORIZONTAL SURFACES IN ACCORDANCE WITH ACI 301.
- UNLESS OTHERWISE NOTED, ALL EXPOSED EDGES AND CORNERS SHALL BE CHAMFERED 3/4-INCH.

SUBMITTAL REQUIREMENTS

- PRODUCT DATA: BAR SUPPORTS AND CHAIRS, MECHANICAL BAR CONNECTORS, INCLUDING ICC--ES REPORTS, CERTIFIED MILL TEST REPORTS ON REINFORCEMENT, CEMENTITIOUS MATERIALS, COARSE AND FINE AGGREGATES, ADMIXTURES, WATER, READY--MIX PLANT CERTIFICATION, MIX DESIGNS, MIX TEST RESULTS, CURING MATERIALS AND PROGRAM, METHODS AND MATERIALS FOR CONCRETE REPAIRS, ADHESIVE ANCHORS, INCLUDING ICC--ES REPORTS, GENERATOR ENCLOSURE
- SHOP DRAWINGS: BAR AND WIRE FABRIC LAYOUTS, BAR BENDING DIAGRAMS, ASSEMBLY DIAGRAMS, INCLUDING BAR LAP AND SPLICE LOCATIONS, ACCESSORIES AND INSERTS LAYOUT, PROGRAM AND METHOD OF CONCRETE PLACEMENT, AND SEISMIC ANCHORAGE CALCULATIONS FOR GENERATOR SIGNED AND SEALED BY A STRUCTURAL OR CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.

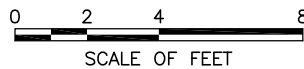
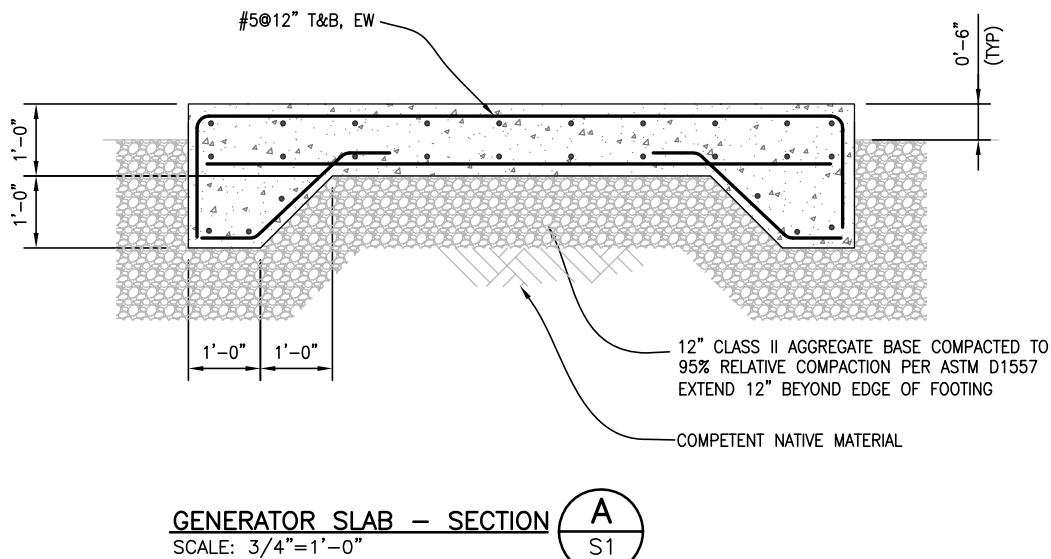
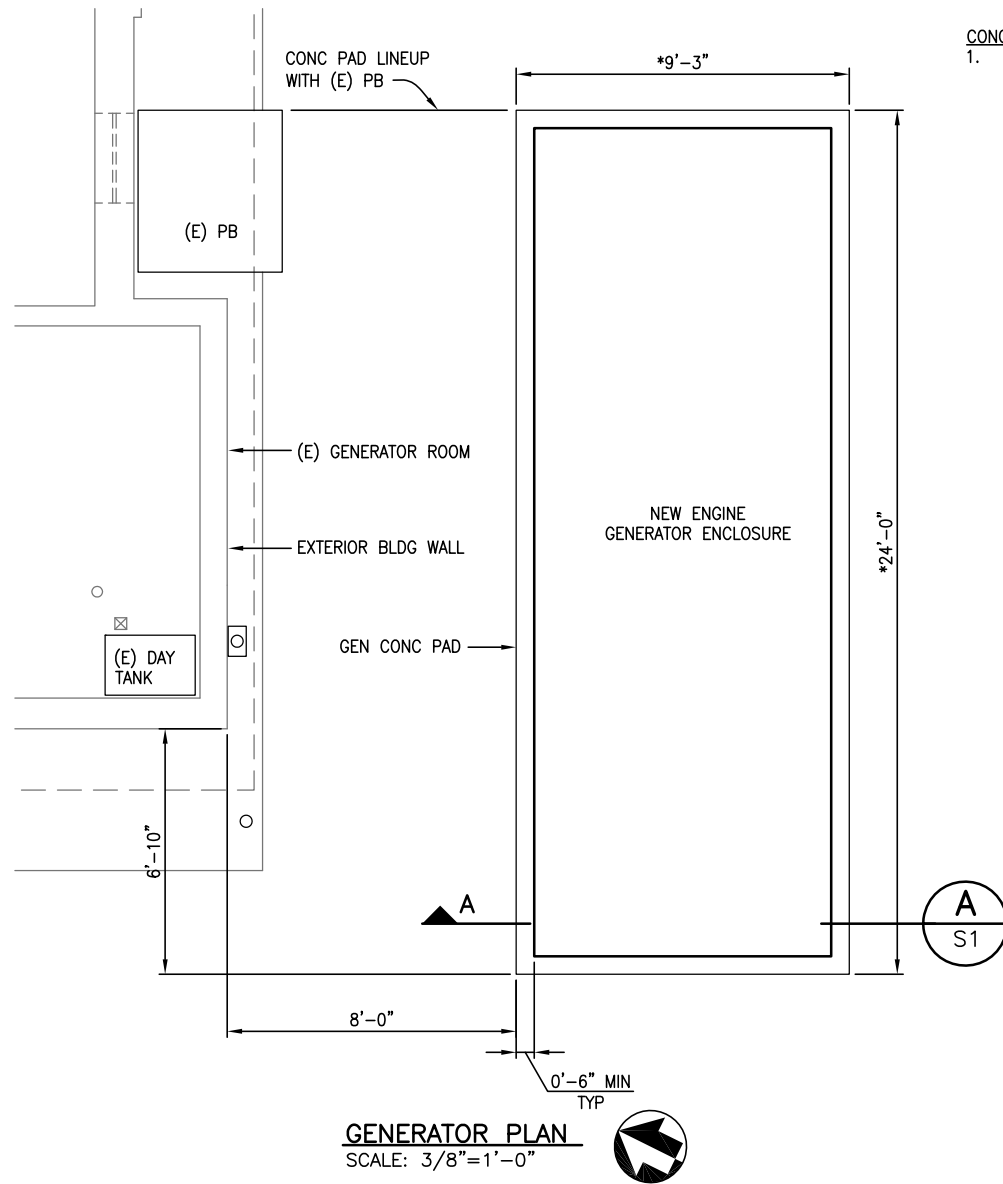
LOADING CRITERIA

- MINIMUM LOADING REQUIREMENTS PER CHAPTER 16 OF THE 2013 CALIFORNIA BUILDING CODE.
- DEAD LOAD: AS CALCULATED
- WIND LOAD:

IMPORTANCE FACTOR, Iw	1.0
BASIC WIND SPEED	110 MPH
EXPOSURE	C
- SNOW LOAD:

IMPORTANCE FACTOR, I	1.1
BASIC GROUND SNOW LOAD, Pg	60 PSF
SNOW EXPOSURE COEFFICIENT, Ce	0.9
THERMAL FACTOR, Ct	1.2
- SEISMIC LOAD:

OCCUPANCY CATEGORY	III
SEISMIC IMPORTANCE FACTOR, I	1.25
SEISMIC IMPORTANCE FACTOR, Ip	1.5
SITE CLASS	D
SITE COEFFICIENT Ss	0.699
SITE COEFFICIENT S1	0.241
SEISMIC DESIGN RESPONSE PARAMATER Sps	0.578
SEISMIC DESIGN RESPONSE PARAMATER S01	0.308
SEISMIC DESIGN CATEGORY	D
SITE COEFFICIENT Fa	1.24
SITE COEFFICIENT Fv	1.91



CONCRETE PAD NOTES:

- CONCRETE PAD WAS DESIGNED FOR THE FOLLOWING CRITERIA:

MAXIMUM GENERATOR WITH ENCLOSURE WEIGHT:	23,500 LBS.
VERTICAL CENTER OF GRAVITY OF GENERATOR AND ENCLOSURE:	52 INCHES
ANCHOR BOLTS:	316 STAINLESS STEEL
MINIMUM ANCHOR BOLT EDGE DISTANCE:	6 INCHES



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