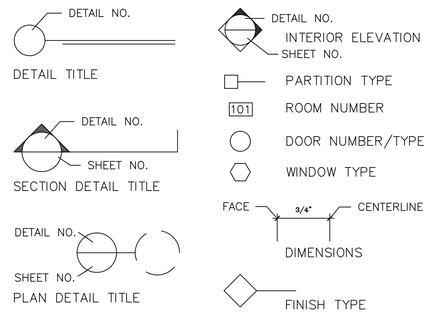
Fire Station No. 5 - Emergency Generator & Enclosure

City of Delray Beach Project Number 14-011

4000 Germantown Road, Delray Beach, Florida

SYMBOL LEGEND



DEMOLITION NOTES

1. Demolition consists of performing all demolition as shown on these drawings, and of any existing construction which in its present position will interfere with new construction. The Contractor will provide and perform any cutting or patching of existing construction as shown on the drawings, or as reasonably inferred.
2. All surfaces, not scheduled for demolition, which are disturbed by demolition, cutting, patching or in any other way by the Contractor shall be restored to match existing adjacent surfaces. All patches shall be imperceptible.
3. Existing walls which are to remain are to be protected in a manner determined by the Contractor to adequately protect the surface finishes.
4. The Contractor shall locate existing walls which are indicated to remain and verify that the in place location is the same as the location for any new construction. Any discrepancies between as-built and new work shall be called to the attention of the Architect in writing before proceeding with work. The Contractor shall be responsible for coordinating with the Architect to determine proper course of action.
5. All Electrical demolition is to be performed by State of Florida licensed Electrical Subcontractors utilizing trained personnel. All electrical devices which are removed must be properly safed off. No exposed wiring or hazards will be permitted to remain. Cap or remove wiring to junction boxes or panels. Provide As-Built information on any electrical devices or circuitry affected as a part of this demolition work.

GENERAL NOTES

1. All Work shall be performed in strict accordance with the Florida Building Code, 2014, fifth edition, and all amendments as well as the 2010 Edition of the Florida Fire Prevention Code and the 2009 Edition of NFPA 1 and NFPA 101 with Florida Amendments. All work shall conform to the requirements of NFPA 241. Reference to other standard specifications or codes shall mean the latest standard or code adopted and published.
2. All required tests shall be performed by an approved testing laboratory at the Owner's expense Test results shall be submitted to the Architectand/or Engineer. Tests resulting in failure shall be redone (successfully) at no additional cost to the owner.
3. It shall be the responsibility of the Contractor to familiarize himself with all conditions of the site relative to existing work and the construction documents prior to commencing Work. Job site measurements are the full responsibility of the Contractor and/or Subcontractors.
4. The Contractor shall verify all dimensions in the field. Discrepancies shall be reported to the Architect prior to the commencement of the Work.
5. The Contractor shall coordinate the work of all trades at the time the work is performed on this structure. No additional payments shall be made for the Contractor's failure to correct conflicting field conditions. Correction of defects shall be completed without additional charge and shall include replacement or repair of any other phase of installation that may have been damaged during repair of such work.
6. It is not the intent of these plans to show every minor detail of construction, the Contractor is expected to furnish and install all items necessary to complete final work.
7. Do not scale drawings to obtain dimensions. Any dimensions not indicated on drawings are to be confirmed with Architect prior to commencement of Work.
8. See architectural plans, elevations, details, and schedules for additional notes and information, refer to specifications for specific material requirements.
9. In the event of any need for special sequencing of work is required, the Contractor shall arrange
10. Contractor shall provide a construction schedule to the Owner indicating proposed timing prior to commencing Work.
11. All finishes are to meet Type A flame spread ratings.
12. All concealed wood is to be fire retardant treated wood product(s).
13. All asbestos containing materials, if encountered, are to be properly removed and/or encapsulated per all codes and under the direction of a Florida Licensed Engineer licensed for such purpose.
14. The Architect has no responsibility for the design of Life Safety Systems & components including building risers and sprinkler systems, alarm systems, etc. nor hazardous materials, if encountered. Such items are responsibility of a Florida Licensed Engineer licensed for such purpose.

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE ASSOCIATED SITE DEMOLITION AND NEW CONSTRUCTION OF A CMU EMERGENCY GENERATOR ENCLOSURE AND THE INSTALLATION OF A NEW GENERATOR AND ASSOCIATED ELECTRICAL WORK. THE SCOPE OF WORK INCLUDES LIMITED DEMOLITION, NEW MASONRY AND CONCRETE CONSTRUCTION, STUCCO, PAINT, LIMITED PAVING, LIMITED LANDSCAPING AND IRRIGATION, & ASSOCIATED ELECTRICAL WORK.

ABBREVIATIONS

ABV. Above	F.C.U. Fan Coil Unit	P.L. Property Line
AC Air Conditioning	F.D. Fire Damper	PLAS. Plaster
ACOUST. Acoustical	F. DRN. Floor Drain	PLWD. Plywood
A.C.T. Acoustical Ceiling Tile	F.H.C. Fire House Cabinet	PNT. Paint
ADMIN. Administrative	FIN. Finish	POL. Polished
A.DRN. Area Drain	FIN.FLR./ F.F.Finish Floor	POL. Polished
A.F.F. Above Finished Floor	FIXT. Fixture	P.T.D. Paper Towel Dispenser
A.H.U. Air Handling Unit	FLR. Floor	P.V.C. Polyvinyl Chloride
ALUM., AL.Aluminum	GALV. Galvanized	PTD. Painted
ANOD. Anodized	GL. Glass	R. Riser
APPROX. Approximately	GRD. Ground	R.A. Return Air
ASB. Asbestos	GYP.BD./G.B.Gypsum Board	RAD. or R.Radius
ASPH. Asphalt	H. High	R.C. Reinforced Concrete
ASST. Assistant	HDWR Hardware	R.D. Roof Drain
BATT. Battery	H.M. Hollow Metal	REFL. Reflected
BD. Board	HORIZ. Horizontal	REFRIG. Refrigerator
BLDG. Building	H.PT. High Point	RET. Retaining
BLK., BLKG.Block, Blocking	HCT Hollow Clay Tile	RM. Room
BM. Beam	HT. Height	R.O. Rough Opening
BOT. Bottom	H.V. High Voltage	R.W.D.P. Rain Water Drain Pipe
BR. Brick	H.W.H. Hot Water Heater	SCHED. Schedule
BRK. Breaker	I.D. Interior Design	S. DWGS. Structural Drawings
BRNZ. Bronze	I.DIA./I.D.Inside Diameter	SERV. Service
BTW. Between	INSUL Insulation	SH. Shower
CEM. PLAS.Cement Plaster	INT. Interior	SHT. Sheet
C.C. Center to Center	JAN. / J. Janitor	SIM. Similar
CEM. Cement	JT. Joint	SLID. Sliding
CER.T. or C.T.Ceramic Tile	KIT. Kitchen	S.N.D. Sanitary Napkin Disposal
C.G. Corner Guard	LAV. Lavatory(Washbasin)	S.N. DISP Sanitary
C.H. Ceiling Height	L.C. Laundry or Linen Chute	Napkin Dispenser
C.I. Cast Iron	L.P. Low Point	SOAP DISPSoap Dispenser
C.J. Control Joint	LT. Light	SP. Special
CL Center Line	L.V. Low Voltage	SPECS. Specifications
CLG. Ceiling	M. Meter(s)	SPK. Sprinkler
CLR. Clear	MACH. Machine	SQ. Square
CMU Concrete Masonry Unit	MAS. Masonry	S.S. Service Sink
COL. Column	MAX. Maximum	S.STL./ST.ST. Stainless Steel
COMP. Compressor	M.C. Medicine Cabinet	STL. Steel
CONC. Concrete	M.D.F. Main Distribution Frame	STN. Stain
CONT. Continuous	MECH. Mechanical	STOR. Storage
CPT. Carpet	MECH. VENT.Mechanical Ventilation	STRUCT. Structural
DET. Detail	MEMB. Membrane	SUSP. Suspended
D.F. Drinking Fountain	MFR. Manufacturer	T. Tread
DIA. or D.Diameter	MGR. Manager	T.O.C. Top of Curb
DIR. Director	MIN. Minimum	TELE. Telephone
DN. Down	MISC. Miscellaneous	TEMP. Tempered
D.O. Door Opening	MM. Millimeter(s)	TH. Threshold
D.O.H. Door Opening Height	M.O. Masonry Opening	THK. Thick
D.O.W. Door Opening Width	M.T. Metal Threshold	T.O.S. Top of Slab
DR. Door	MTD. Mounted	T.P.H. Toilet Paper Holder
DWGS. Drawings	MTL. Metal	TRANS. Transformer
EA. Each	MULL. Mullion	TRAN. Transom
E.J. Expansion Joint	N.I.C. Not In Contract	TRZ. Terrazzo
EL. Elevation	NO. Number	T.O.W. Top of Wall
ELEC. Electrical	NOM. Nominal Dimension	TYP. Typical
E.O.S. Edge of Slab	N.T.S. Not to Scale	UR. Urinal
EQ. Equal	O.C. On Center	V.C.T. Vinyl Composition Tile
EQUIP. Equipment	O.D. Outside Diameter	VERT. Vertical
ESCAL. Escalator	OFCI Owner Furnished Contractor Installed	VEST. Vestibule
EX. Exposed	OFF. Office	V.T.R. Vent Thru Roof
EXH. Exhaust	OPNG. Opening	W/ With
EXIST. Existing	OPP.HD. Opposite Hand	W.C. Water Closet
EXP. Exposed	PASS. Passenger	WD. Wood
EXT. Exterior	P.C. Precast Concrete	W.O. Where Occurs
F&B Food & Beverage	P.DWGS. Plumbing Drawings	WP. Waterproof
	PL. Plate	W.R.M. Wet Riser Main

DRAWING LIST

ARCHITECT

CS-1	COVER SHEET
PR-1	PROJECT REQUIREMENTS
A-1	SITE PLAN, DEMOLITION PLAN, & NOTES
A-2	GENERATOR PLAN & DETAILS, STRUCTURAL REQUIREMENTS

LANDSCAPE ARCHITECT

DT-1	TREE REMOVAL PLAN
LP-1	LANDSCAPE & IRRIGATION PLAN

BY OTHERS – ELECTRICAL ENGINEERING

E-0.1	ELECTRICAL NOTES, LEGEND & DETAILS
E-1.1	SITE PLAN – ELECTRICAL

PROJECT TEAM

OWNER
CITY OF DELRAY BEACH
100 NW 1st AVENUE
DELRAY BEACH, FLORIDA

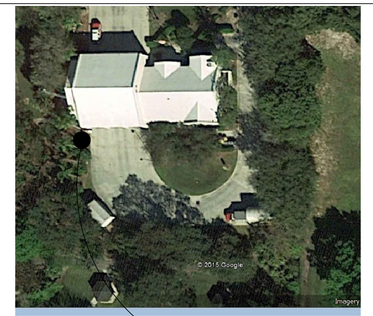
ARCHITECT
DAVID MILLER & ASSOCIATES, P.A.
319 CLEMATIS STREET SUITE 802
WEST PALM BEACH, FLORIDA 33401

LANDSCAPE ARCHITECT
STUDIO SPROUT, INC.
521 25TH STREET
WEST PALM BEACH, FLORIDA 33407

STRUCTURAL ENGINEER
THOMAS J. TWOMEY
2831 EXCHANGE COURT, SUITE A
WEST PALM BEACH, FLORIDA 33409

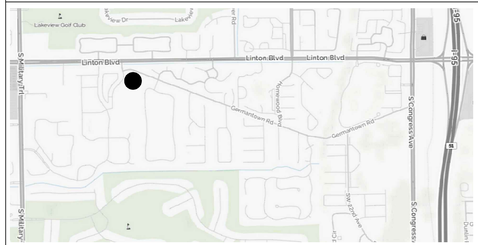
AERIAL VIEW

NORTH



LOCATION MAP

NORTH



REVISIONS

NO.	TITLE	DATE

ISSUANCES

DATE	TITLE
	BID
	PERMIT
	CONSTRUCTION

PROJECT
CITY OF DELRAY BEACH
FIRE STATION No. 5 EMERGENCY GENERATOR
4000 Germantown Road Delray Beach, Florida

SHEET TITLE
COVER SHEET

DAVID MILLER & ASSOCIATES, P.A.
AA 26000963
319 Clematis Street Suite 802
West Palm Beach, Fl 33401
Ph. (561) 833-0164 Fax (561)833-0165 DMA@DavidMillerArchitect.com

DAVID R. MILLER AR 9417
STATE OF FLORIDA

DRAWN BY	SCALE AS NOTED
CHECKED BY	DATE 5.18.2016
DM&A No.	

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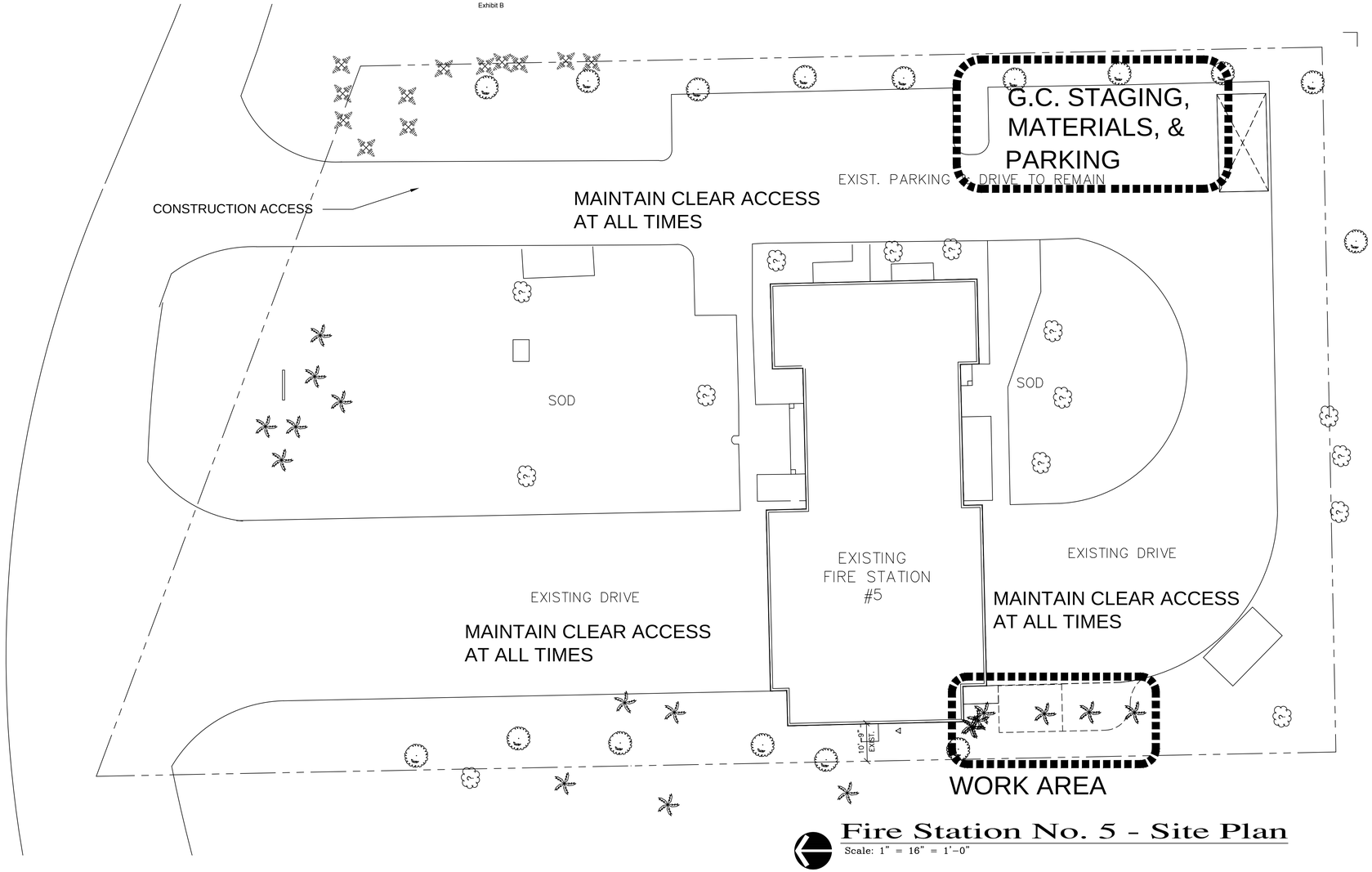
CS-1
1 OF 4

DELRAY/FS 5...

Exhibit B



Fire Station No. 5 - Site Plan

Scale: 1" = 16" = 1'-0"

SPECIFIC PROJECT REQUIREMENTS

1. Fire Station No. 5 is to remain open and be in continuous operation at all times.
2. All life safety components and paths of egress are to remain fully operational and accessible throughout the course of construction.
3. All construction activities are limited to those areas depicted in the project requirements.
4. The G.C. shall provide an overall project schedule indicating start and expected duration of the full project and bid alternates.
5. All work is expected to be performed simultaneously and continuously and will not interfere or disrupt ongoing Fire Station No. 5 operations and functions.
6. Prior to commencing work, the City will remove all equipment, personal effects, or related items.
7. The G.C. will install temporary construction barricades separating construction areas from adjacent areas. These barricades shall consist of 6' Chain Link Fencing to secure the construction areas.
8. After hours and weekend work is allowed if approved in advance by the City.

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FIRE STATION No. 5 EMERGENCY GENERATOR
4000 Germantown Road Delray Beach, Florida

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PROJECT REQUIREMENTS

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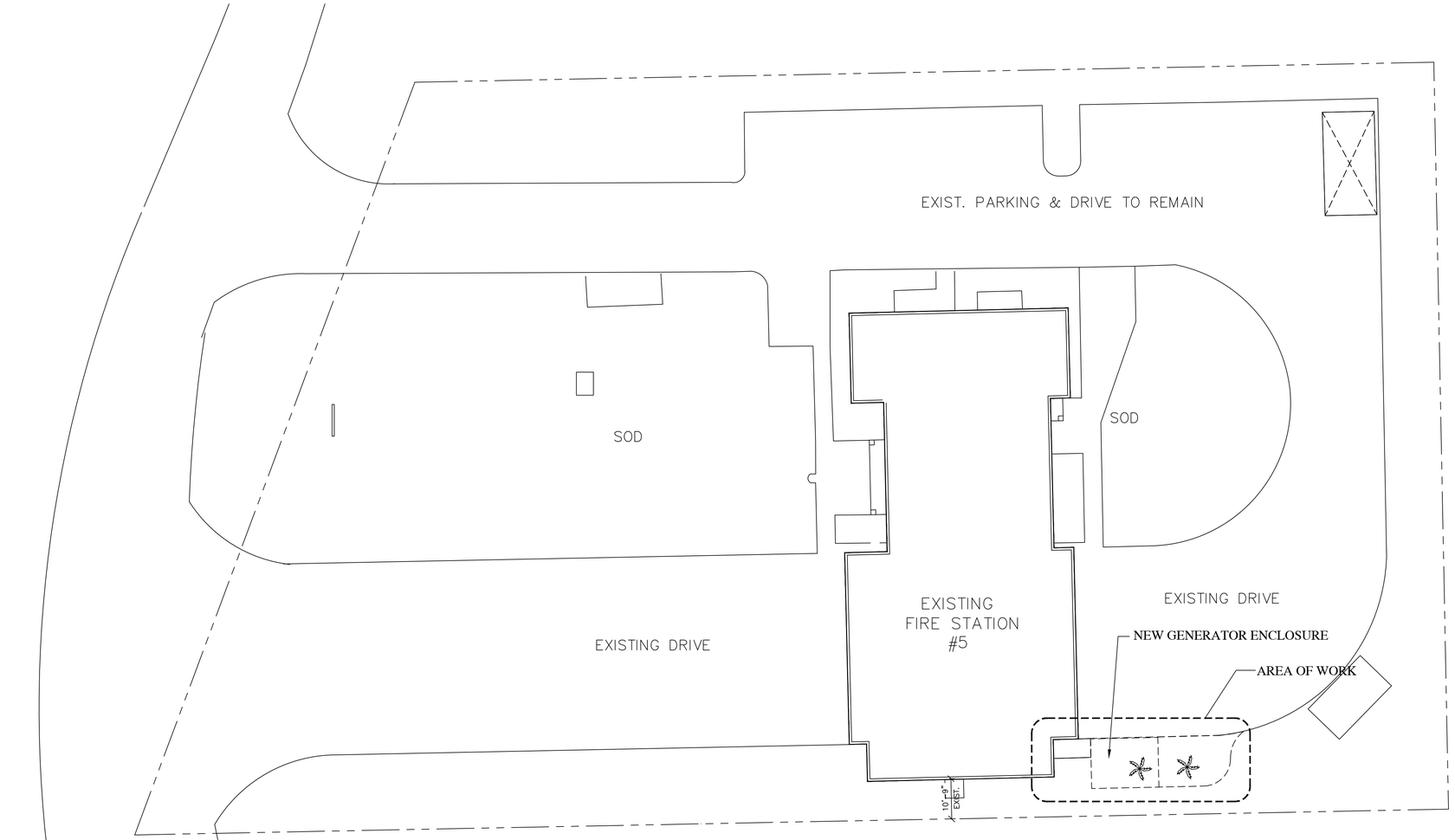
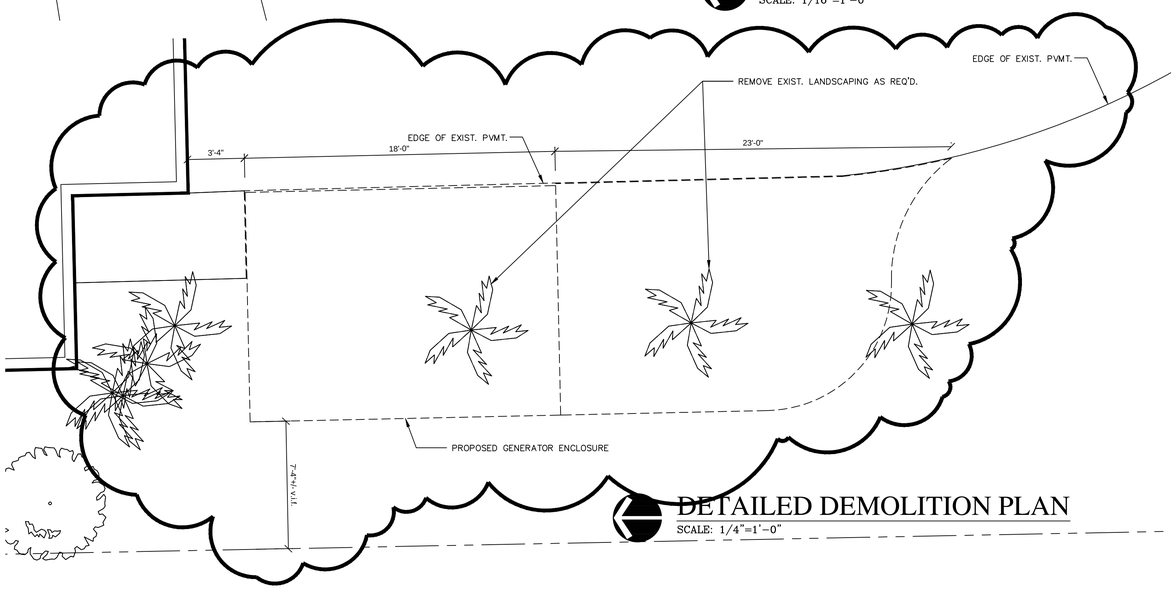
2 OF 4



SITE PLAN
SCALE: 1/16"=1'-0"



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

DEMOLITION NOTES

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REVISIONS		
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1	BID CLARIFICATION	8.22.16

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PROJECT
CITY OF DELRAY BEACH
FIRE STATION No. 5 EMERGENCY GENERATOR
4000 Germantown Road Delray Beach, Florida

SHEET TITLE
SITE PLAN
DEMOLITION PLAN & NOTES

DAVID MILLER & ASSOCIATES, P.A.
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A-1
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DELRAY\FS 5...

STRUCTURAL & GENERAL NOTES

1. SOIL STATEMENT:

A. VISUAL INSPECTION OF SOIL INDICATES UNDISTURBED SAND AND LIMEROCK WITHIN ALLOWABLE BEARING CAPACITY OF 2.5 K.S.F. CONTRACTOR TO VERIFY BY PERFORMING FIELD SOIL BORING TESTS AS REQUIRED FROM AN APPROVED SOIL TESTING LABORATORY.

B. PROVIDE PROPERLY COMPACTED NON-ORGANIC FILL TO 95% MODIFIED PROCTOR.

C. OTHER AREA FOOTINGS SHALL BEAR ON SAID UNDISTURBED SAND AND ROCK.

2. CONCRETE:

A. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS:
ALL CONCRETE 3,000 P.S.I.

B. TESTS: A MINIMUM OF 6 CONCRETE SPECIMENS SHALL BE TAKEN FROM EACH 50 CU. YDS. OR PORTION THEREOF. SPECIMENS SHALL BE TESTED ACCORDING TO ASTM C-39. ONE AT 3 DAYS, ONE AT 7 DAYS AND THREE AT 29 DAYS.

C. COVER: CONCRETE DEPOSITED AGAINST THE GROUND 3". FORMED CONCRETE IN CONTACT WITH THE GROUND 2". BEAMS AND COLUMNS 1 1/2". SLABS AND WALLS 3/4"

D. ALL CONSTRUCTION PER ACI CODE.

3. REINFORCING STEEL:

A. REINFORCING BARS MUST CONFORM WITH ASTM A-615-90, GRADE 60.

B. WELDED WIRE FABRIC MUST CONFORM WITH ASTM A-185 AND MUST BE SUPPORTED ON SLAB BOLSTERS SPACED AT 3'-0" MAXIMUM ON CENTER.

C. FABRICATION AND DETAILING ACCORDING TO ACI 315.

D. ALL ACCESSORIES MUST HAVE UPTURNED LEGS AND BE PLASTIC-DIPPED AFTER.

4. MASONRY WALLS:

A. ALL MASONRY SHOWN TO BE BEARING ON PLAN: MUST BE ERECTED PRIOR TO THE STRUCTURE ABOVE BEING ERECTED.

B. MORTAR: MUST CONFORM WITH ASTM C-270. TYPE M (2,500 P.S.I.).

C. REINFORCING: USE DURAWALL TRUSS REINFORCING EVERY OTHER COURSE. USE VERTICAL REINFORCING BARS AS SPECIFIED ON THE PLANS.

5. WOOD:

A. WOOD TRUSSES MUST BE DESIGNED IN ACCORDANCE WITH SOUTH FLORIDA BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL STRUCTURAL ENGINEER WITH FLORIDA REGISTRATION. SPECIFY BOTH PERMANENT BRACING AND THAT WHICH IS REQUIRED DURING CONSTRUCTION

B. OPTIONAL: ALL WOOD MEMBERS MUST HAVE A MINIMUM OF 1,200 F(B) P.S.I. EXCEPT FOR 4x12 HEADER BEAMS WHICH MUST HAVE A MINIMUM OF 1,550 P.S.I.

6. SLABS ON FILL:

A. TO BE PLACED ON CLEAN NON-ORGANIC SOIL THOROUGHLY MOISTENED IMMEDIATELY BEFORE CONCRETE IS POURED. CONCRETE IS TO BE PLACED ON 0.006 IN VISQUEEN VAPOR BARRIER. SLABS ARE TO BE PLACED IN A "CHECKERBOARD" SEQUENCE. EACH SEGMENT OF WHICH IS NOT TO EXCEED A MAXIMUM AREA OF 1,000 SQ. FT. OR 36 LINEAR FEET IN ANY ON DIRECTION.

7. APPROVALS:

A. SUBMIT SHOP DRAWINGS FOR ITEMS 3, 5 AND 6 ABOVE.

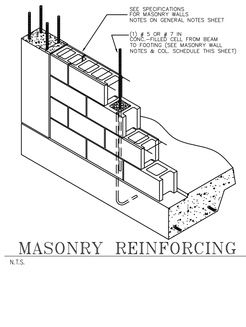
B. SUBMIT LABORATORY REPORTS FOR ITEM 2 ABOVE.

8. COORDINATION:

A. COORDINATE ALL DIMENSIONS, ELEVATIONS AND OPENINGS WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. REPORT ANY DISCREPANCIES TO OUR OFFICE.

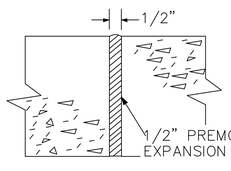
B. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE DRAWINGS AND AT THE JOB SITE AND IMMEDIATELY REPORT ANY INCONSISTENCIES TO THE ARCHITECT PRIOR TO FABRICATION.

C. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, IN WRITING, OF ANY DISCREPANCY IN THE DRAWINGS OR INCONSISTENCIES WITH ANY AND ALL APPLICABLE CODES OR REGULATIONS, PRIOR TO ANY ACTION ON HIS PART. FAILURE TO DO SO WILL MAKE HIM RESPONSIBLE AND LIABLE UNDER HIS CONTRACT.

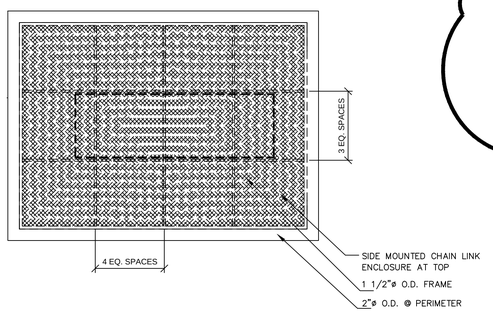


MASONRY REINFORCING DETAIL

N.T.S.

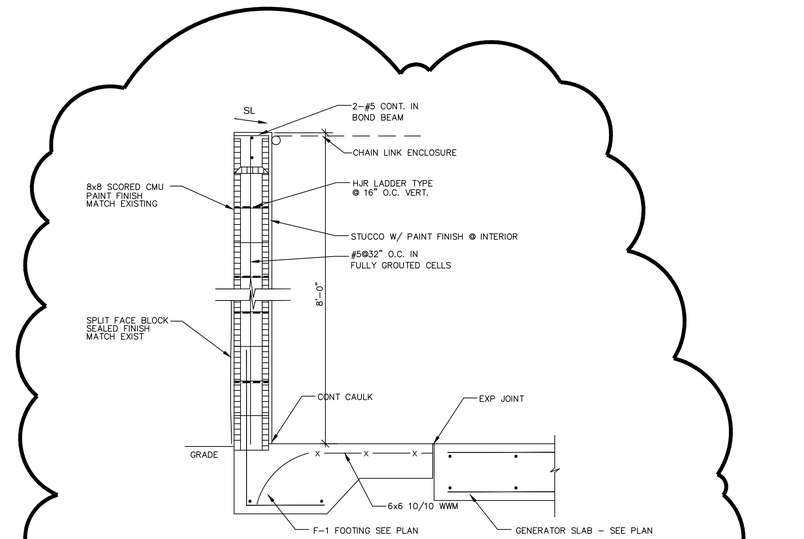


EXPANSION JOINT DETAIL

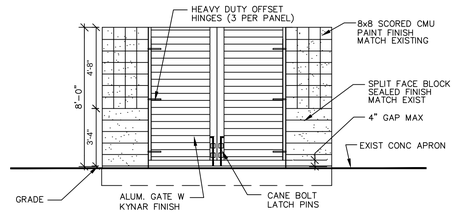


CHAIN LINK FENCE FRAMING PLAN

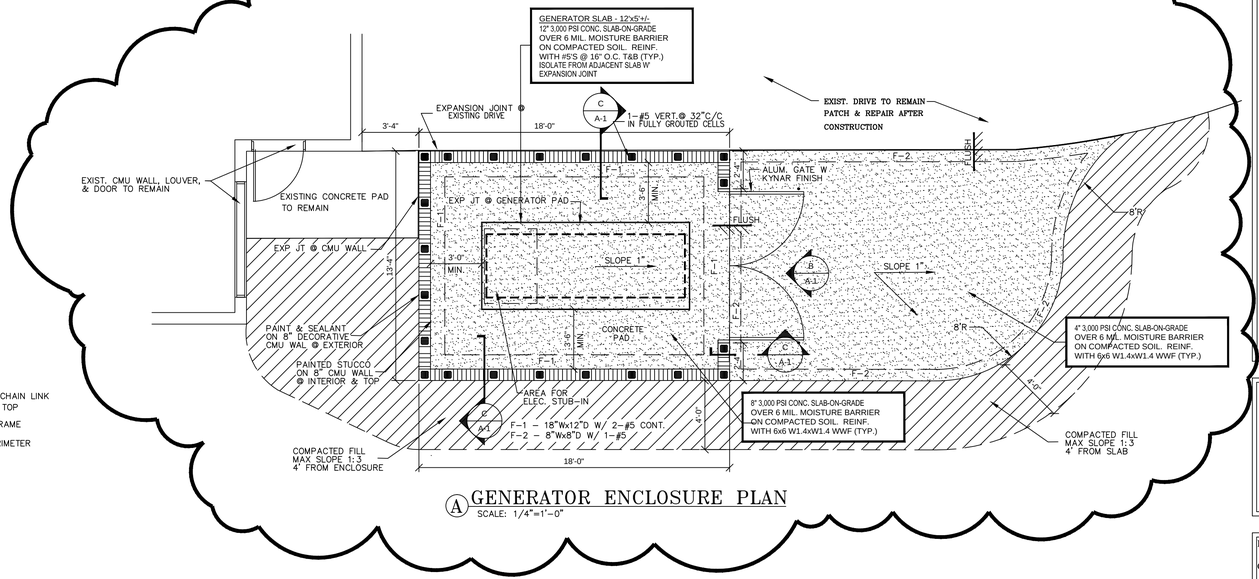
SCALE: 1/4"=1'-0"



Ⓒ SECTION



Ⓑ FRONT ELEVATION



Ⓐ GENERATOR ENCLOSURE PLAN

SCALE: 1/4"=1'-0"

THOMAS J. TWOMEY, P.E.
#25626
2831 EXCHANGE COURT
WEST PALM BEACH, FL 33409
Tel: 561 688-2844
Fax: 561 688-5862

REVISIONS		
NO.	TITLE	DATE
1	BID CLARIFICATION	8.22.16

ISSUANCES	
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FIRE STATION No. 5 EMERGENCY GENERATOR
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SHEET TITLE
GENERATOR PLAN & DETAILS
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DAVID R. MILLER AR 9417
STATE OF FLORIDA

DRAWN BY	SCALE AS NOTED
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SHEET NUMBER
A-2
4 OF 4

DELRAY\FS 5...

BASIS OF DESIGN: (APPROVED EQUIVALENTS ACCEPTED)

GENERAC | INDUSTRIAL POWER

SG100

9.0L

Industrial Spark-Ignited Generator Set

EPA Certified Stationary Emergency

SG100 100 kW

Standby Power Rating
100 kW 125 kVA 60 Hz

Prime Power Rating*
90 kW 113 kVA 60 Hz

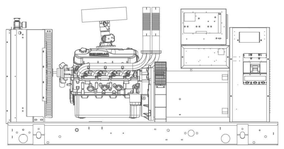


Image used for illustration purposes only

*EPA Certified Prime ratings are not available in the U.S. or its Territories

Codes and Standards

Generac products are designed to the following standards:

- UL2200, UL508, UL142, UL498
- NFPA70, 99, 110, 37
- NEC700, 701, 702, 708
- ISO9001, 8528, 3046, 7637, Pluses #2b, 4
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41 (American National Standards Institute)
- IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

EMERGENCY GENERATOR SPECIFICATIONS

DUEL FUEL, NATURAL GAS, PROPANE GAS GENERATOR, 100KW, 120/208V, 3ø, 4W, EPA TIER 3

THE GENERATOR SHALL BE PROVIDED WITH THE FOLLOWING:
OVERLOAD PROTECTION CIRCUIT BREAKER
REMOTE ALARM ANNUNCIATOR SYSTEM
EMERGENCY STOP PUSHBUTTON
ENGINE INSTRUMENTS SHOWING:
- ENGINE WATER TEMPERATURE
- LUBE OIL PRESSURE
- LUBE OIL TEMPERATURE
- ENGINE RUNNING HOURMETER
- BATTERY CHARGING INDICATOR
- ENGINE FAULT INDICATORS

ENGINE MOUNTED RADIATOR
SAFETY CONTROLS TO SHUT DOWN THE ENGINE FOR THE FOLLOWING:
- LOW LUBRICATING OIL PRESSURE
- LOW WATER LEVEL
- HIGH/LOW WATER JACKET TEMPERATURE
- ENGINE OVER SPEED
- ENGINE OVERCRANK

CRITICAL GRADE SILENCER
WATER JACKET HEATER, 1500W MINIMUM
ISOCHRONOUS GOVENEROR
BATTERY CHARGER (10 AMPS), LEAD ACID BATTERIES, BATTERY RACK & CABLES AND CLAMPS

GENERATOR CONTROL PANEL WITH THE FOLLOWING:
- RECESSED FRONT PANEL HINGED
- RUBBER ISOLATOR
- A.C. VOLTMETER, AMMETER, DIAL TYPE FREQUENCY METER
- FUSES
- THREE POSITION SELECTOR SWITCH: MANUAL, OFF/RESET & AUTO
- BATTERY CHARGING VOLTMETER
- ENGINE WATER TEMPERATURE GAUGE
- OIL PRESSURE GAUGE
- D.C. CIRCUIT BREAKER
- SHUTDOWN INDICATORS FOR ALARMS INDICATED ABOVE

WEATHER ENCLOSURE HOUSING

1 YEARS MANUFACTURERS WARRANTY AND A 5 YEAR ENGINE WARRANTY

THE GENERATOR SHALL BE PROVIDED WITH AN AUTOMATIC STARTING SYSTEM TO PROVIDE MULTIPLE CRANK/RESET CYCLES. OPERATION SHALL BE INITIATED THROUGH CLOSING OF CONTACTS IN THE AUTOMATIC TRANSFER SWITCH.

THERE SHALL BE (1) AUTOMATIC TRANSFER SWITCH THAT SHALL BE A SERVICE ENTRANCE RATED 400A/3P, 120/208V, 3ø, 4W WITH AN 400A/3P MAIN BREAKER. PROVIDE ACCESSORY TIMERS AND RELAYS FOR THE GENERATOR SEQUENCE OF OPERATION.

THE TRANSFER SWITCH IS TO BE PROVIDED WITH THE FOLLOWING OPTIONS: SWITCH POSITION AUX CONTACTS (1) N.C., (1) N.O. SELECTIVE LOAD DISCONNECT CONTACTS WITH TD WHICH OPERATE BEFORE/AFTER TRANSFER

PILOT LIGHTS:
- GREEN – SWITCH IN NORMAL POSITION
- RED – SWITCH IN EMERGENCY POSITION
- WHITE – NORMAL POWER AVAILABLE
- AMBER – EMERGENY POWER AVAILABLE

7 DAY PLANT EXERCISER, WITH OR WITHOUT LOAD,
TEST SWITCH,
IN-PHASE MONITOR,
REMOTE TEST SWITCH CONTACTS,
INHIBIT TRANSFER TO EMERGENCY CONTACT,
REMOTE TIME DELAY BYPASS SWITCH CONTACTS,
LOAD SITE AMMETER

TRANSFER SWITCH SEQUENCE OF OPERATION

COMMERCIAL POWER LOSS:

THE TRANSFER SWITCH SHALL MONITOR COMMERCIAL POWER. UPON COMMERCIAL POWER LOSS. THE TRANSFER SWITCH SHALL SEND A START SIGNAL TO THE GENERATOR. THE GENERATOR SHALL START, UPON CORRECT VOLTAGE & FREQUENCY, THE TRANSFER SWITCH SHALL TRANSFER ALL LOADS TO THE GENERATOR. ALL LOADS MUST BE TRANSFERED WITHIN 10 SECONDS OF POWER LOSS.

PHASE LOSS:

THE TRANSFER SWITCH SHALL MONITOR COMMERCIAL POWER FOR PHASE LOSS. UPON COMMERCIAL POWER SOURCE LOSS OF ANY PHASE, THE TRANSFER SWITCH SHALL SEND A START SIGNAL TO THE GENERATOR. UPON CORRECT VOLTAGE AND FREQUENCY OF THE GENERATOR SOURCE, THE TRANSFER SWITCH WILL TRANSFER ALL LOADS TO THE GENERATOR WITHIN 10 SECONDS OF PHASE LOSS.

COMMERCIAL SOURCE RETURN:

UPON RETURN OF COMMERCIAL SOURCE, THE TRANSFER SWITCH SHALL MONITOR COMMERCIAL POWER SOURCE FOR 25 MINUTES. IF AFTER 25 MINUTES, COMMERCIAL POWER IS STABLE, THE TRANSFER SWITCH SHALL RE-TRANSFER ALL BUILDING LOADS TO COMMERCIAL POWER AND SHALL START A 5 MINUTE COOL-DOWN OF THE GENERATOR. AFTER 5 MINUTES OF COOL-DOWN, THE TRANSFER SWITCH WILL STOP THE GENERATOR.

ELECTRICAL NOTES

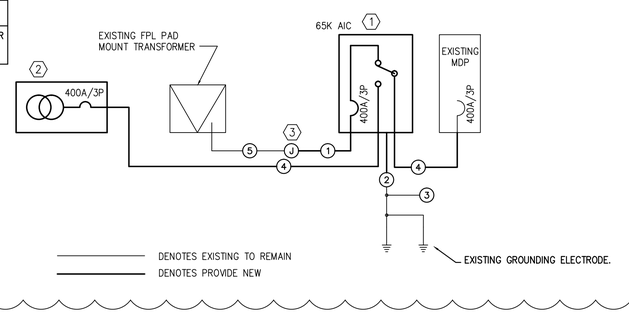
1. ELECTRICAL CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST EDITION OF THE 2010 FBC, 2008 NEC, 2009 NFPA101, 2002 NFPA72, 2010 FLORIDA FIRE PREVENTION CODE AND ALL LOCAL CODES, ORDINANCES OF THE AUTHORITIES HAVING JURISDICTION AND PERFORM ALL WORK IN ACCORDANCE WITH THE INTENT AND REQUIREMENTS OF THESE CODES, ORDINACES AND AUTHORITIES
2. DO NOT SCALE DRAWINGS: VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF ALL WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS.
3. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN TO "FURNISH AND INSTALL".
4. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATABLE WITH EQUIPMENT ACTUALLY SUPPLIED.
5. PROVIDE WITH SHOP DRAWING SUBMITTAL, 1/4" SCALE LAYOUT DRAWINGS OF AREAS WITH ELECTRICAL SWITCHGEAR AND TRANSFORMERS. LAYOUT SHALL SHOW LOCATIONS OF AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT SHALL BE DRAWN TO SCALE.
6. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HERIN.
7. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SHALL PROVIDE LIGHTS, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, EQUIPMENT CONNECTIONS, ETC. AND ASSOCIATED CIRCUITING IN NEW AND REMODELED AREAS, EVEN IF SUCH AREAS ARE NOT SOWN ON THE ELECTRICAL DRAWINGS. LAYOUTS, FIXTURE TYPES, QUANTITIES AND SPACING SHALL BE IN ACCORDANCE WITH SIMILAR AREAS ON THIS PROJECT. THE CONTRACTOR SHALL INCLUDE COSTS FOR THE ABOVE IN HIS BID. IN ADDITION, THE CONTRACOTR SHALL PROVIDE LAYOUT DRAWINGS FOR WORK IN SUCH AREAS AND SUBMIT FOR APPROVAL PRIOR TO ROUGH-IN.
8. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. COORDINATION BETWEEN TRADES SHALL INCLUDE LOW VOLTAGE WIRING.
9. PROVIDE SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUIVALENT" OR "APPROVED EQUIVALENT" LISTING SHALL BE SUBMITTED TO THE ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
11. ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSIM U.L., ETC AND SHALL BEAR AN APPROVED TESTING AGENCY LABEL WHERE APPLICABLE.
12. PROVIDE PERMITS AND INSPECTIONS AS REQUIRED.
13. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
14. PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT WITHIN 30 DAYS AFTER SYSTEM ACCEPTANCE, PER FBC 13-413.1.ABC.2.1. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
15. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION BY CONTRACTORS, WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
16. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, THE CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE OWNER.
17. THE CONTRACTOR SHALL PROVIDE OPERATING MANUALS TO THE OWNER, PER FBC 13-413.1.ABC.2.2.
18. THE CONTRACTOR SHALL COORDINATE WITH FPL ALL REQUIREMENTS FOR CONDUIT ENTRY AND CABLE TERMINATIONS IN THE UTILITY TRANSFORMER. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.
19. GENERATOR SYSTEM SHALL BE COMPLETE AND OPERABLE AND SHALL INCLUDE REQUIRED ACCESSORIES, FUEL TANKS, PIPING, MUFFLER, BLOCK HEATER, BATTERY CHARGER, ETC. THE CONTRACTOR SHALL COORDINATE THE LOCATION FOR A REMOTE CONTROL PANEL.
20. WIRE SHALL BE COPPER, 75 DEGREES C RATED FOR GENERAL USE, FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLAST WIRE SHALL BE COPPER, MINIMUM 90 DEGREES C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREES C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTOR TO MEET VOLTAGE DROP REQUIREMENTS WHERE FIELD CONDITIONS INCREASE THE CONDUIT RUN LENGTH SUCH THAT THE VOLTAGE DROP IS EFFECTED.
21. SPLICES IN EXTERIOR PULL BOXES AN MANHOLES SHALL BE MADE WATER PROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUIVALENT. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCT SEAL" OR APPROVED EQUIVALENT
22. PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME, BOUND IN THREE-RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS, LAMPS, CONDUIT, CONDUIT FITTINGS AND TRANSFORMERS.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
24. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIAL, EQUIPMENT OR INSTALLATION METHODS.
25. SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.
26. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PAD, SAW CUTTING AND PATCHING, CONCRETE/PAVING, ETC., REQUIRED BACKFILL TRENCHED TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
27. PULL BOXES, CABINETS, ETC., MOUNTED ON THE EXTERIOR AT GRADE LEVEL, SHALL BE WEATHER PROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPER-PROOF SCREWS.
28. PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
29. VOLTAGE DROP CALCULATIONS ON ALL FEEDERS AND BRANCH CIRCUITS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE STATE OF FLORIDA ENERGY CODE CHAPTER 13 (13-413.1.ABC.1.1 & 13-413.1.ABC.1.2). THE CONTRACTOR IS RESPONSIBLE TO BE FAMILIAR WITH CHAPTER 13 AND SHALL UPSIZE THE CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS BASED ON THE ACTUAL ROUTING IN THE FIELD.
30. ADDITIONAL NOTES FOR NEW PANELBOARDS:
    - A. PROVIDE LIGHTING AND RECEPTACLE PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE, AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
    - B. UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0" A.F.F.
    - C. ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
    - D. PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON THE PANEL SCHEDULES.
    - E. ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE, BOLT-ON E. TYPE. NO "PIGGY-BACK" OR TANDEM BREAKERS WILL BE PERMITTED
    - F. CONTRACTOR SHALL PROVIDE ON ALL FLUSH (RECESSED) MOUNTED PANELS TWO (2), SPARE 2" CONDUITS STUBBED INTO THE CEILING SPACE.
    - G. ALL CURRENT CARRYING BUS BARS SHALL BE COPPER.

NOTE:

ALTERNATE GENERATOR MANUFACTURERS ARE ACCEPTABLE. PLEASE REFER TO SPEC SECTION 263213 FOR THE GENERATOR SPEC.

KEY NOTES:	
1	PROVIDE NEW 400A/3P SERVICE ENTRANCE RATED, AUTOMATIC TRANSFER SWITCH. SWITCH SHALL HAVE A NEMA 3R ENCLOSURE.
2	PROVIDE NEW 100KW NATURAL GAS FUEL GENERATOR IN A LEVEL 1 WEATHER HOUSING. SEE THIS SHEET FOR ENCLOSURE HOUSING.
3	EXISTING SERVICE CONDUCTORS TO BUILDING SHALL BE INTERCEPTED NEAR THE NEW SERVICE RATED TRANSFER SWITCH, AND REROUTED TO THE NEW MDP. REFER TO THE RISER DIAGRAM FOR ADDITIONAL INFORMATION.

WIRE SCHEDULE KEY NOTE	
1	4#600MCM, 4"C
2	1#3/0 GROUNDING ELECTRODE CONDUCTOR TO EXISTING GROUNDING ELECTRODE
3	EXISTING 1#6 BONDING CONDUCTOR
4	4#600MCM, 1#3G, 3-1/2"C
5	EXISTING SERVICE CONDUCTORS FROM FPL TRANSFORMER TO NEW J-BOX TO REMAIN



BUILDING LOAD PROVIDED BY FPL:

HIGHEST KWD OVER PAST 12 MONTHS:	30KWD
BUILDING LOAD AT 125%:	40KW
GENERATOR SIZE:	100KW

PARTIAL ELECTRICAL RISER DIAGRAM

N.T.S.

ELECTRICAL DRAWING LIST

DRAWING NUMBER	DRAWING NAME
E-0.1	ELECTRICAL NOTES, LEGEND AND DETAILS
E-1.1	FLOOR PLAN - ELECTRICAL

ANDREW J. YOUNGROSS LICENSE NO. 51758 STATE OF FLORIDA PROFESSIONAL ENGINEER

PERMIT SET 12-05-14

NOTE

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

SG100 100 kW

GENERAC | INDUSTRIAL POWER

SG100

Standard Features

ENGINE SYSTEM

General
- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Critical Exhaust Silencer
- Factory Filled Oil
- Radiator duct adapter (open set only)

Fuel System
- Primary and Secondary Fuel Shutoff
- Flexible Fuel Line - NPT Connection

Cooling System
- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-installed Radiator
- Radiator drain extension
- 50/50 Ethylene glycol antifreeze

Engine Electrical System
- Battery charging alternator
- Battery Cables
- Battery Tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

ALTERNATOR SYSTEM
- UL2700 GENProtect™
- Class H insulation material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearings
- Amortisseur winding
- Full load capacity alternator

GENERATOR SET
- Internal Genset Vibration Isolation
- Separation of circuits - high/low voltage
- Separation of circuits - multiple breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Warranty (Prime rated units)
- Silencer mounted in the discharge hood (enclosed only)

ENCLOSURE (if selected)
- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat™ - Textured polyester powder coat

CONTROL SYSTEM

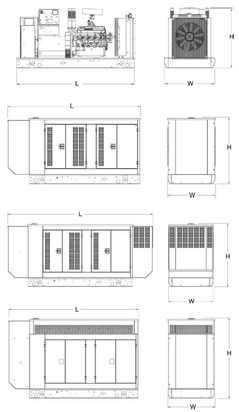
Control Panel
- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection
- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms
- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

SG100 100 kW

GENERAC | INDUSTRIAL POWER

SG100 dimensions, weights, and sound levels



OPEN SET (Includes Exhaust Flex)

L x W x H in (mm)	94.2 (2394) x 40 (1016) x 47.5 (1206)
Weight lbs (kg)	2064 (936.2)
Sound Level (dBA*)	88.8

STANDARD ENCLOSURE

L x W x H in (mm)	111.79 (2839.5) x 40.46 (1027.8) x 56.18 (1427)
Weight lbs (kg)	Steel: 2708 (1228) Aluminum: 2413 (1094)
Sound Level (dBA*)	79.7

LEVEL 1 ACOUSTIC ENCLOSURE

L x W x H in (mm)	129.42 (3287.2) x 40.46 (1027.8) x 56.18 (1427)
Weight lbs (kg)	Steel: 2788 (1269.2) Aluminum: 2355 (1068)
Sound Level (dBA*)	75.3

LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H in (mm)	111.81 (2840) x 40.46 (1027.8) x 68.61 (1742.8)
Weight lbs (kg)	Steel: 3022 (1370.8) Aluminum: 2431 (1103)
Sound Level (dBA*)	70.8

*All measurements are approximate and for estimation purposes only. Sound levels measured at 23 ft (7 m) and does not account for ambient site conditions.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. • S45 W29290 HWY 59, Waukesha, WI 53189 • generac.com

Revision	Date	Description

HVAC
PLUMBING
ELECTRICAL

THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC

CERTIFICATE of AUTHORIZATION NO. 25996

112 Southeast 10th Street, Delray Beach, Florida 33483
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DELRAY BEACH FIRE DEPT.
STATION #5
GENERATOR REPLACEMENT

4000 OLD GERMANTOWN ROAD DELRAY BEACH, FLORIDA

Plot Date: 1-26-14
Xref(s): 14113FS5

Cadd File:

Design By: AJY, AA
Drawn By: AJY, AA
Checked By: AJY, DET

Date Issued: ;
Scale : AS SHOWN
Sheet :
Of :

ELECTRICAL NOTES, LEGEND AND DETAILS

E-0.1