MANATEE COUNTY GOVERNMENT

ADDENDUM #1

(IFB) #09-1771MR

GENERATOR TRANSFER SWITCH AT NOLAN MIDDLE SCHOOL

1112 MANATEE AVENUE WEST, SUITE 803, BRADENTON, FL 34205
PHONE: 941.749.3044 FAX: 941.749.3034

DUE DATE AND TIME FOR BIDS **OCTOBER 22, 2009, 10:00AM**

Bidders are hereby notified that this Addendum shall be acknowledged on Page 22 of the Bid Form and made a part of the above named bid documents. Bids submitted without acknowledgement of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date shall conform to the additions and revisions listed herein.

1. Extension of due date: Due date and time for bids is extended to Thursday, October 22, 2009, 10:00 AM, Purchasing Conference Room (address above).

2. Requests for Information and Clarification responses as provided by Brett Sands, TLC Engineering, are attached verbatim.

Attached per several requests at the Information Conference is a copy of the sign-in sheet from that meeting.

END OF ADDENDUM #1

FOR INFORMATION CONTACT:
Mary Ann Russell, Senior Buyer
maryann.russell@mymanatee.org
Phone (941) 749-3044 - FAX (941) 749-3034

ENGINEERING
FOR ARCHITECTURE

FT. MYERS DIVISION
1400 Colonial Blvd Ste 203
Fort Myers FL 33907-1069
239-275-4240 • Fax 239-275-3511

RFI RESPONSE - # 1

TLC PROJ. NO: **409013**	RESPONSE BY : **Brett Sands**	DATE RECEIVED: **10/07/09** (received via email)
PROJECT NAME: **GENERATOR TRANSFER SWITCH @Nolan Middle School**		DATE RETURNED: **10/12/09**

Condition Statement

The following RFI response is not intended to authorize any deviation or modification to the design documents, except as specifically clarified below for this specific application and circumstance.

Furthermore, this response is not intended to authorize any increase in construction cost, schedule or time extension, or construction in conflict with any applicable codes or specified design standards. It is the responsibility of the Contractor to notify the design team immediately of any perceived scope, schedule or cost impacts or adjustments.

NO.	COMMENTS
1	Comment: I would like to get further information on Note #5 on Sheet E-2. The engineer is calling for a "3000 A, 3 phase bussing and double set of main lugs". This is basically a termination cabinet. Can he provide us with a spec unit to base our pricing on? I have purchased something similar to this for USF Sundome and I have enclosed the 'spec' sheet for reference. Thanks for your attention on this. Response: Cabinet equal to a Hoffman enclosure, or equal with full copper bussing by Square D, Siemens, GE or Cutler Hammer is acceptable. Confirm provision of capped sleeves for portable generator cable entrance. Submitted spec sheet is acceptable, pending meeting all requirements.

PAD-MOUNTED TERMINATION ENCLOSURES

TYPE LPTE

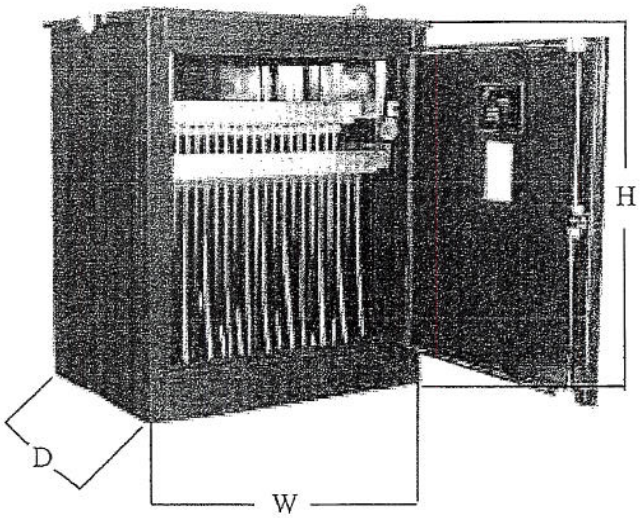
Three-Phase, NEMA 3R (rain-proof), 600 Volt Rated

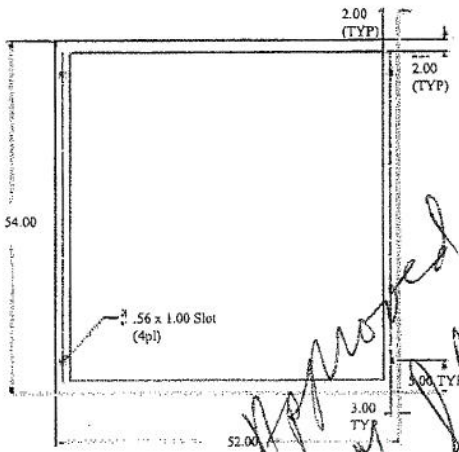
UNI-JOINT

- Aluminum mechanical bar connector eliminates compression tools, lugs and bolt assemblies.
- Aluminum enclosure is lightweight, low maintenance and has excellent corrosion resistance.
- All-welded construction: Welds and seams are ground smooth.
- Manufactured to meet or exceed ANSI C57-12.28 for pad-mount equipment enclosure integrity.
- Removable swinging doors - Doors have stainless steel lift off hinges with stainless steel three point locking handles and recessed stainless steel penta-head bolts for security.
- Finish is Munsell green, oven cured powder coat.
- All mounting hardware is 18-8 stainless steel.

Catalog Number	Cond. Range AWG	No. of Cond. Per Phase	W	D	H	Cover Phase	U.L. Listed Amp. Rating	
			Dimensions - Inches				Copper	Aluminum
LPTE30-1000	1/0-1000 kcmil	30	52.00	54.00	44.00	TEC50-15S	5225	4235

Note: Consult factory for special applications or conductor sizes.Add suffix "C" to the end of the catalog number to include 4-phase covers.





Silicone Cover available
TEC50-15S

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Fort Myers FL 33907-1069
239-275-4240 • Fax 239-275-3511

RFI RESPONSE - # 2		
TLC PROJ. NO: **409013**	RESPONSE BY : **Brett Sands**	DATE RECEIVED: **10/09/09**
PROJECT NAME: **GENERATOR TRANSFER SWITCH @Nolan Middle School**		DATE RETURNED: **10/12/09**

Condition Statement

The following RFI response is not intended to authorize any deviation or modification to the design documents, except as specifically clarified below for this specific application and circumstance.

Furthermore, this response is not intended to authorize any increase in construction cost, schedule or time extension, or construction in conflict with any applicable codes or specified design standards. It is the responsibility of the Contractor to notify the design team immediately of any perceived scope, schedule or cost impacts or adjustments.

NO.	COMMENTS
1	Comment: On E1 16120 B. States to use XHHW insulation on feeders & subfeeders. If we are able to reuse existing service feeders, and they are not marked or identified with the XHHW insulation type will it be ok to reuse wires? Response: Reuse of existing cabling, where feasible, is acceptable. All new and existing cabling shall be tested.
2	Comment: Note 7 on E2 calls for manual transfer switch to be service rated at 3000amps. Does this not require the MTS to have over current protection (fuses or breaker) because main 1 thru 3 now become sub panels, and does the MTS going to need ground fault protection due to the different breaker sizes in main 1 thru 3? Response: Switch shall be service entrance listed as specified, provide Ground fault protection per NEC with overcurrent devices as required by manufacturer for required listing.

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Fort Myers FL 33907-1069
239-275-4240 • Fax 239-275-3511

RFI RESPONSE - # 3		
TLC PROJ. NO: **409013**	RESPONSE BY : **Brett Sands**	DATE RECEIVED: **10/13/09** (received via email)
PROJECT NAME: **GENERATOR TRANSFER SWITCH @Nolan Middle School**		DATE RETURNED: **10/13/09**

Condition Statement

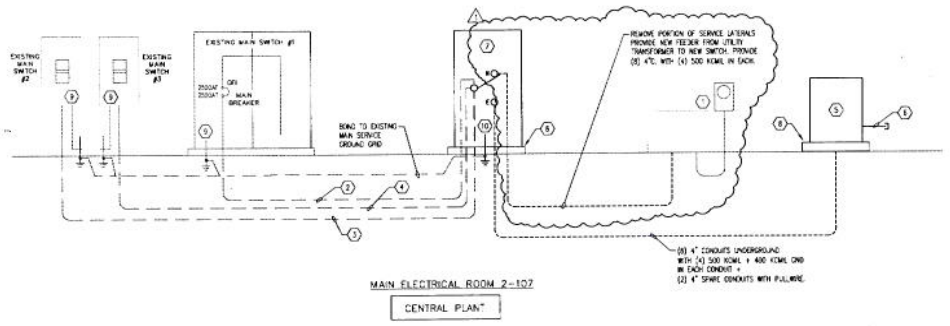
The following RFI response is not intended to authorize any deviation or modification to the design documents, except as specifically clarified below for this specific application and circumstance.

Furthermore, this response is not intended to authorize any increase in construction cost, schedule or time extension, or construction in conflict with any applicable codes or specified design standards. It is the responsibility of the Contractor to notify the design team immediately of any perceived scope, schedule or cost impacts or adjustments.

NO.	COMMENTS
1	Comment: Was the area from the transformer to the building excavated and were the feeders located? Are the feeders in the same area as depicted on the prints? Response: Feeders have been located; they are in same general area. Drawing will be reissued to show location.
2	Comment: If the multiple services (Existing Main Switch 1, 2, and 3) go to the Manual Transfer switch directly, isn't this a code violation due to multiple size feeders? (NEC 310.4). Can the architect verify and correct? Response: Service from the utility transformer to the switch will be revised to require a new feeder with multiple sets of same-size conductors. Drawing will be reissued.

RISER NOTES:

1. EXISTING UTILITY COMPANY PAD MOUNT 277/480-3Ø TRANSFORMER AND METER. REFER TO ELECTRICAL SITE PLAN FOR LOCATION. CONTACT PEACE RIVER ELECTRIC CO-OP TO COORDINATE ALL WORK AND ASSOCIATED OUTAGES.
2. EXISTING SERVICE TO MAIN SWITCH #1, (3) 4" CONDUIT WITH (4) 600 KCMIL CU. INTERCEPT AND EXTEND TO NEW TRANSFER SWITCH AS SHOWN. ADD 350KCMIL EQUIPMENT GROUND CONDUCTOR IN EACH CONDUIT FROM TRANSFER SWITCH TO EXISTING MAIN CIRCUIT BREAKER.
3. EXISTING SERVICE TO MAIN SWITCH #2, (1) 1-1/4" CONDUIT WITH (4) #3 AWG CU. INTERCEPT AND EXTEND TO NEW TRANSFER SWITCH AS SHOWN. ADD #8 AWG CU EQUIPMENT GROUND CONDUCTOR FROM TRANSFER SWITCH TO EXISTING MAIN CIRCUIT BREAKER.
4. EXISTING SERVICE TO MAIN SWITCH #3, (1) 2" CONDUIT WITH (4) 3/0 AWG CU. INTERCEPT AND EXTEND TO NEW TRANSFER SWITCH AS SHOWN. ADD #6 AWG CU EQUIPMENT GROUND CONDUCTOR FROM TRANSFER SWITCH TO EXISTING MAIN CIRCUIT BREAKER.
5. NEMA 3R ENCLOSURE WITH 3000A, 3Ø, 4W BUSSING AND DOUBLE SET OF MAIN LUGS FOR INCOMING OUTGOING 3000A CABLING. CONTRACTOR SHALL VERIFY PHASE ROTATION FOR FUTURE CABLE CONNECTION. PANEL SHALL BE PROVIDED WITH A HINGED LOCKABLE COVER AND NAMEPLATE INDICATING "GENERATOR INTERFACE PANEL".
6. PROVIDE (8) SETS OF 4" C SLEEVES WITH CHAIN CONNECTED CAPS FOR FUTURE GENERATOR CABLES.
7. 3000A, 4-POLE SERVICE ENTRANCE RATED MANUAL TRANSFER SWITCH IN NEMA 3R ENCLOSURE. SWITCH SHALL BE RATED FOR A MINIMUM 35k AIC. SEE SPECIFICATIONS FOR DETAILS.
8. PROVIDE 5" CONCRETE PAD WITH 6x6 - W2.9 X W2.9 WWF.
9. REMOVE EXISTING NEUTRAL TO GROUND BOND.
10. BOND NEUTRAL TO GROUND USING #3/0 AWG CU BONDING JUMPER. CONNECTION TO EXISTING BUILDING GROUND WITH #3/0 AWG CU GROUNDING ELECTRODE CONDUCTOR.



1 / E2 ELECTRICAL RISER DIAGRAM
SCALE: NTS

SEQUENCE OF OPERATION

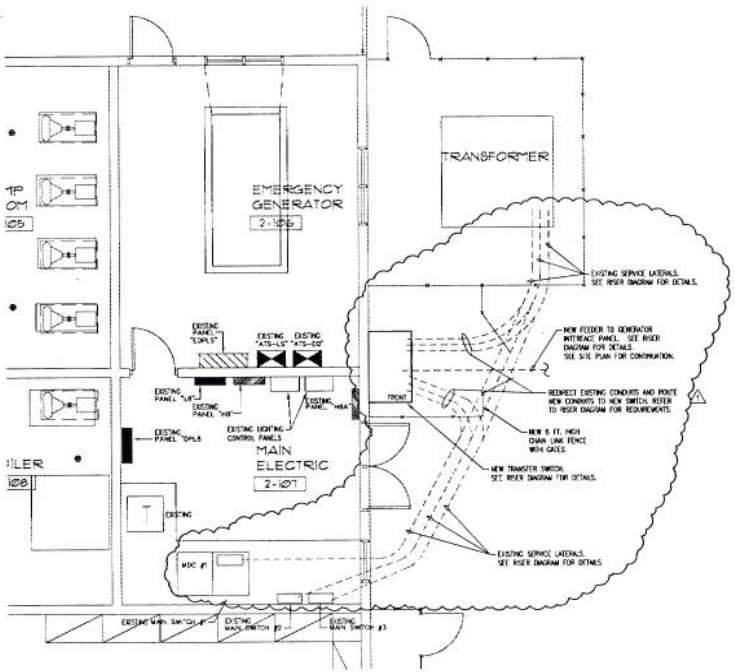
PRIOR TO TRANSFER FROM UTILITY TO PORTABLE EMERGENCY SOURCE, THE FOLLOWING TO BE COMPLETED:

- TURN OFF BREAKER SERVING PANEL HB (SPORTS LIGHTING PANEL) IN MDC!
- TURN OFF BREAKERS SERVING PORTABLES IN MDC!
- SWITCH ATS-LS TO NON-AUTOMATIC CONTROL
- SWITCH ATS-EQ TO NON-AUTOMATIC CONTROL

TESTING

PROVIDE THE FOLLOWING TESTING OF THE TRANSFER SYSTEM, AFTER INSTALLATION IS SUBSTANTIALLY COMPLETE:

- PROVIDE PORTABLE GENERATOR, MINIMUM 1250KW, 480/277V, 3Ø-4W RATING, CONNECT TO SYSTEM AT "GENERATOR INTERFACE PANEL".
- TRANSFER BUILDING LOAD TO PORTABLE GENERATOR, FOLLOWING "SEQUENCE OF OPERATION" DESCRIBED ON THIS DRAWING.
- PERFORM TRANSFER SEQUENCE MULTIPLE TIMES, IN CONFORMANCE WITH SPECIFICATION 16460, PARA. D, "FIELD QUALITY CONTROL".
- ALL TESTING SHALL BE DONE IN PRESENCE OF OWNER'S REPRESENTATIVE.



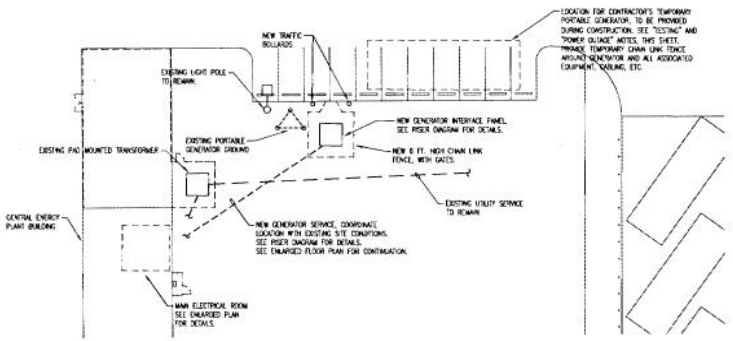
GENERAL SITE NOTES:

1. MAINTAIN ALL EXISTING ELECTRICAL WORK WITHIN THE RENOVATION AREA UNLESS NOTED OTHERWISE.
2. PLANS WITHIN THE EXISTING BUILDING AREAS SHOW THE GENERAL LOCATION OF THE SYSTEMS AREA OF WORK. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND VERIFY THE EXTENT OF WORK REQUIRED FOR REMOVAL OF AND RE-CONNECTION TO EXISTING SYSTEMS EQUIPMENT.
3. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES IN AREA OF NEW CONSTRUCTION PRIOR TO BEGINNING WORK. OBTAIN COPIES OF AVAILABLE AS BUILT DRAWINGS FOR UNDERGROUND UTILITIES TO DEFINE UTILITY COMPANY EASEMENTS, AND VISIT SITE TO VERIFY LOCATIONS OF SURFACE STRUCTURES. ANY DAMAGE CAUSED TO UTILITIES SHALL BE REPAIRED AT NO COST TO OWNER.
4. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED DURING INSTALLATION AT NO COST TO THE OWNER.
5. CONTRACTOR SHALL DO ALL CUTTING AND PATCHING REQUIRED TO MATCH EXISTING MATERIALS. WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRES THE CUTTING OF EXISTING OUTDOOR GRADE, FLOORS, WALLS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK FOR THE PRESENCE OF EXISTING MECHANICAL AND ELECTRICAL SERVICES WITHIN OR IMMEDIATELY ADJACENT TO CONSTRUCTION AND EXERCISE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING SERVICES OR INJURY TO PERSONNEL DUE TO CONTACT WITH SAME. WHERE PRACTICAL, SUCH EXISTING SERVICES SHALL BE TEMPORARILY DISCONNECTED DURING THE CUTTING OPERATION. SUCH OUTAGES IN SERVICE SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER. PATCH AND REPAIR ALL AREAS TO LIKE NEW CONDITION, INCLUDING OUTDOOR GRASS AND LANDSCAPING.

POWER OUTAGES

SHUT UTILITY OUTAGES DURING CONSTRUCTION. PROVIDE TEMPORARY POWER AS FOLLOWS:

- UTILITY OUTAGES TO THE FACILITY WILL NOT EXCEED 5 HOURS.
- FOR ANY OUTAGES THAT EXCEED 5 HOURS PROVIDE 125Ø KW PORTABLE GENERATOR, WITH CABLING TO MAIN SERVICE DISCONNECTS OF FACILITY, TO MAINTAIN POWER TO THE ENTIRE FACILITY.
- PROVIDE FUEL SUFFICIENT FOR OPERATING THE GENERATOR DURING THE UTILITY OUTAGE.
- COORDINATE ALL WORK IN ADVANCE, WITH PEACE RIVER ELECTRIC CO-OP AND OWNER.



2 / E2 ENLARGED FLOOR PLAN
SCALE: 1/4"=1'-0"

3 / E2 SITE PLAN - ELECTRICAL
SCALE: 1"=20'-0"

Tilden Lobaltz Cooper
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www.tlc-engineers.com
EB #0000015
ENGINEERING FOR ARCHITECTURE

THIS DRAWING IS BEING ISSUED FOR THE PURPOSE OF BIDDING & PERMITTING.

Brett L. Sands, P.E.
Florida License #48477

Seal

MANATEE COUNTY EMERGENCY MANAGEMENT

R. DAN NOLAN MIDDLE SCHOOL
SPECIAL NEEDS SHELTER GENERATOR
MANATEE COUNTY PUBLIC SAFETY

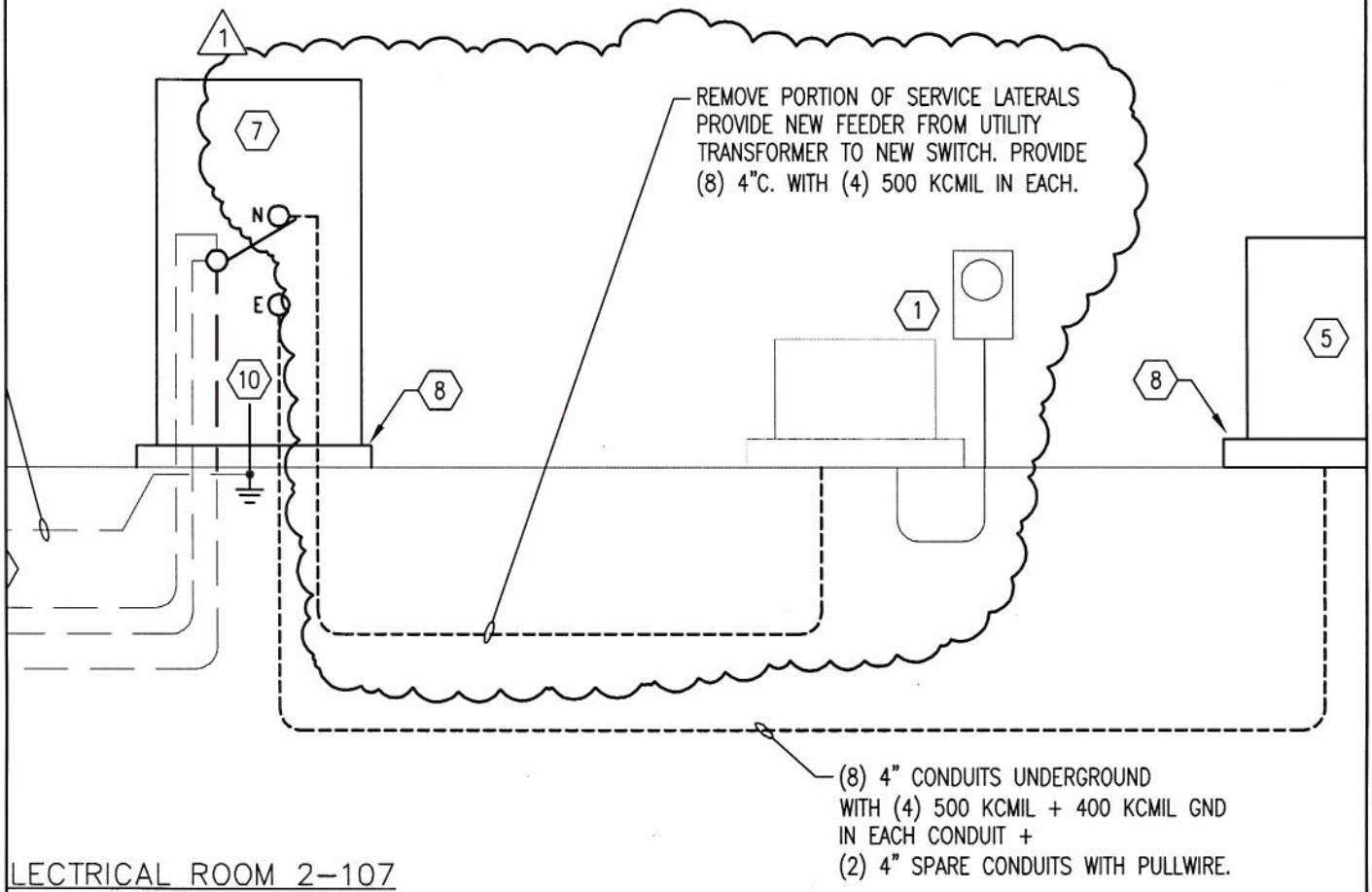
SCALE: SEE DRAWINGS
JOB NO. 409013

DRAWN	SML
CHECKED	BLS
APPROVED	BLS
DATE	09.18.2009

MARK	DATE	DESCRIPTION
1	10/14/09	SPACE ENTRANCE LAYOUT

E2

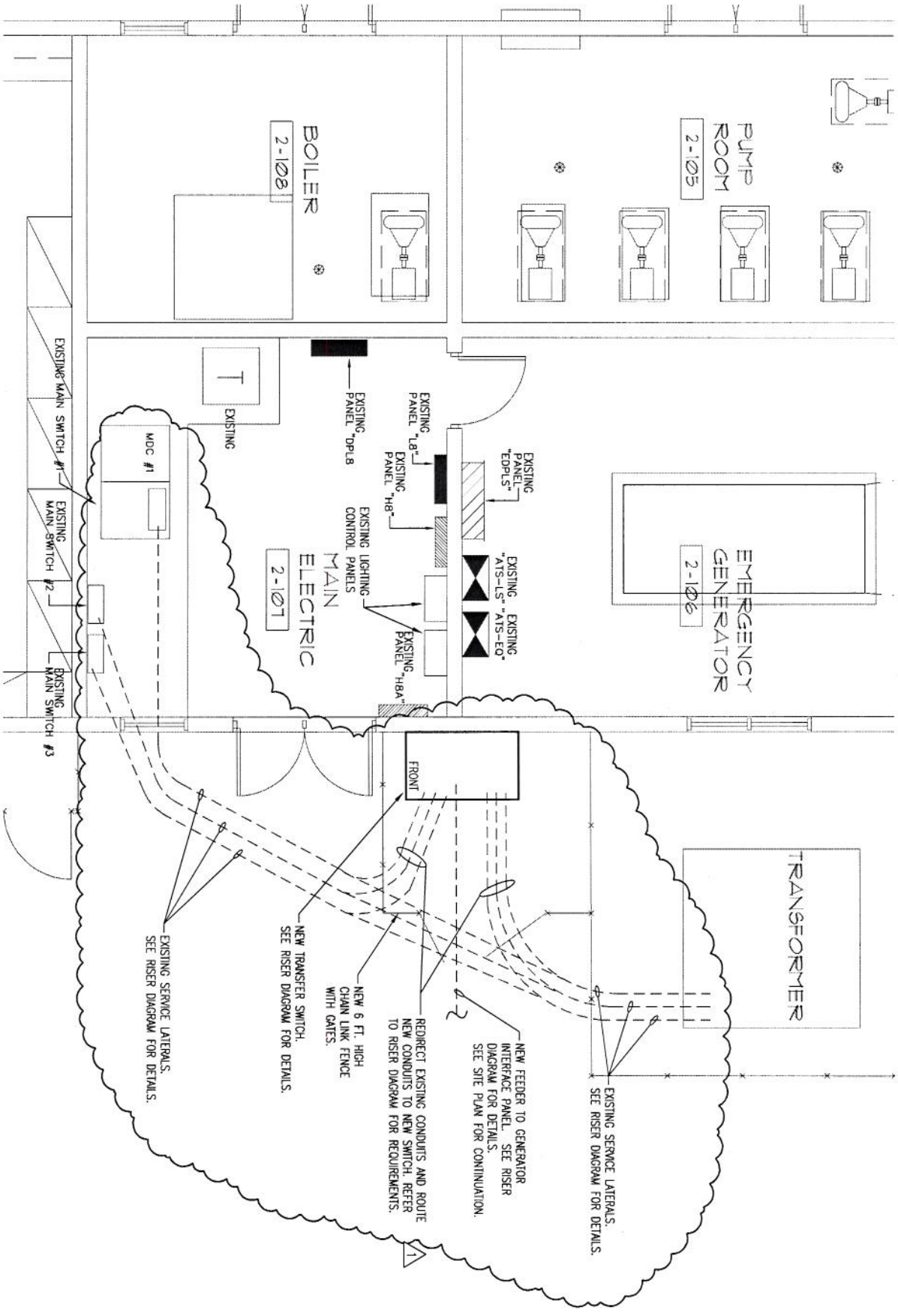
See SKETCHES 1 & 2, FOR Enlarged Detail



LECTRICAL ROOM 2-107

CENTRAL PLANT

REVISION: 1	PROJECT: Nolan MS Special Needs	
SUPPLEMENT TO DRAWING No.: E2	TLC JOB No.: 409013	SCALE: NONE
DATE: 10/14/2009 DESIGN: DLH CHECKED: BLS	1400 Colonial Blvd. - Suite 203 Ft. Myers, Florida 33907 Phone: 239-275-4240 Fax: 239-275-3511 www.tlc-engineers.com EB #0000015	SKETCH No. SKE-1



REVISION: 1	PROJECT: Nolan MS Special Needs Shelter Generator	
SUPPLEMENT TO DRAWING No.: E2	TLC JOB No.: 409013	SCALE: 1/4" = 1'-0"
DATE: 10/14/2009 DESIGN: DLH CHECKED: BLS	1400 Colonial Blvd. - Suite 203 Ft. Myers, Florida 33907 Phone: 239-275-4240 Fax: 239-275-3511 www.tlc-engineers.com EB #0000015	SKETCH No. SKE-2

INFORMATION CONFERENCE
ATTENDANCE RECORD

TITLE: 09-1771MR: GENERATOR TRANSFER SWITCH @ NOLAN MIDDEL

DATE: Tuesday, October 06, 2009

TIME: 9:30AM

NAME (PLEASE PRINT)	COMPANY	PHONE/E-MAIL ADDRESS
Scott LARKin	Miller Electric	383-1608 ~~[illegible]~~ 336-1972
Scott Fralum	Clayton Electric	371-1632
Chris Sedivy	Coastal Electric Constructors	813-876-9362
Jim Langmead	Goodson Electric	941.729-5633
Brett Sands	TLC Engineering	239-275-4240
Larry Fralick	MCSB	941-708-8800 x1099
Hal Vickery	"	" x1098
Greg Bacon	MCEM	941-749-3500 x1639
Bryan Pritchard	Peace River Electric Coop	941-758-1118
Darryl Humphrey	Windermuller Tech Svc	941 355 8822
Mark Gatz	Bay Area Electric, Inc.	941/921-9067 MARK@BAYAREAELECTRICFL.com
James Doyle	Commercial Maint. Systems	863-661-9750 / jdoyle@commercialms.com
Eric Beasley	FL. Power Solutions Inc	359-3064 ericb@flpowersolutions.com
Mike McClaskey	WPCS 941.378.0080	mike.mcclaskey@wpcs.com
Perry Manchego	Doyle Electric Service	941-355-4301
Isaac V. Kinder III	Nu-Sons Electric	941-429-7925
Earl Haseltine	PROJ MANAGEMENT	941-708-7585
Bill O'Shea	MC Neighborhood Svcs	941-748-4501 x6858
Joe McKay	United Electrical 239-898-7646	Bclark@Comporium.net
David Thompson	MCPM	749-3016
TOM ROBERTS	MC PMGT	748-4501 x 6930
Mary Ann Russell	MC Purchasing	749-3044

(If required, continue listing on reverse side)