

LAKE ASBURY JUNIOR HIGH SCHOOL HURRICANE RETROFIT 2019

2851 SANDRIDGE ROAD
GREEN COVE SPRINGS, FLORIDA 32043

CLAY COUNTY BOARD OF COUNTY COMMISSIONERS BID NO. 18/19-23

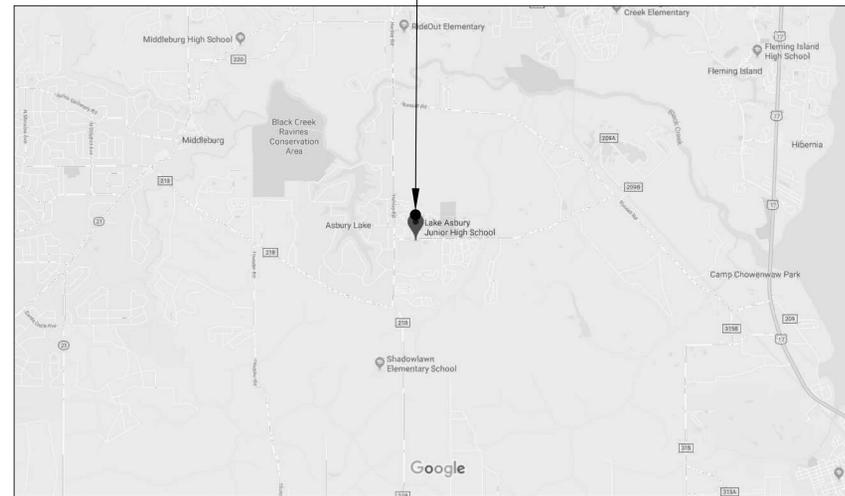
SCHOOL BOARD MEMBERS

MR. ADDISON DAVIS SUPERINTENDENT OF SCHOOLS

BOARD MEMBERS :

- DISTRICT 1 : MS. JANICE KERESKES
 DISTRICT 2 : MS. CAROL STUDDARD
 DISTRICT 3 : MS. TINA BULLOCK
 DISTRICT 4 : MS. MARY BOLLA
 DISTRICT 5 : MS. ASHLEY GILHOUSEN

LAKE ASBURY JUNIOR HIGH SCHOOL



VICINITY MAP

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PROJECT CONTACTS:

OWNER

SCHOOL DISTRICT OF CLAY COUNTY
 FACILITY PLANNING & CONSTRUCTION
 925 CENTER STREET
 GREEN COVE SPRINGS, FL 32043

ARCHITECT

BHIDE & HALL ARCHITECTS, P.A.
 1329-C KINGSLEY AVENUE
 ORANGE PARK, FL 32073
 Phone: (904) 264-1919
 CERT. LIC. # AAC-000569

STRUCTURAL ENGINEER

G.M.HILL ENGINEERING, INC.
 10199 SOUTHSIDE BLVD. SUITE 103A
 JACKSONVILLE, FLORIDA 32256
 CERT. LIC.# 52225

ELECTRICAL ENGINEER

HADDAD ENGINEERING
 3030 HARTLEY ROAD, SUITE 290
 JACKSONVILLE, FL 32257
 Phone: (904) 262-5066
 Cert. of Authorization No. 4000

SCOPE OF WORK:

- A. PROVIDE GENERATOR ENCLOSURE AND CONNECTION INTO EXISTING ELECTRICAL SYSTEM FOR PORTABLE GENERATOR (BY OTHERS). INTENT IS TO EXTEND THE TIME OF THE EXISTING GENERATOR BY TRANSFER TO A PORTABLE GENERATOR, SUPPLIED BY OTHERS DURING EMERGENCY EVENTS.
- B. THIS WORK REQUIRES UNDERGROUND CONNECTIONS TO THE EXISTING GENERATOR AREA. RESTORE EXISTING GRADES AND PROVIDE SODDING AT ANY DISTURBED AREAS.
- C. THIS WORK REQUIRES CONNECTIONS TO BE RUN ABOVE CEILINGS TO CONNECT TO THE EXISTING ELECTRICAL ROOM. PATCH AND REPAIR ALL PENETRATIONS AND AS NEEDED TO MAINTAIN ANY RATED WALLS.

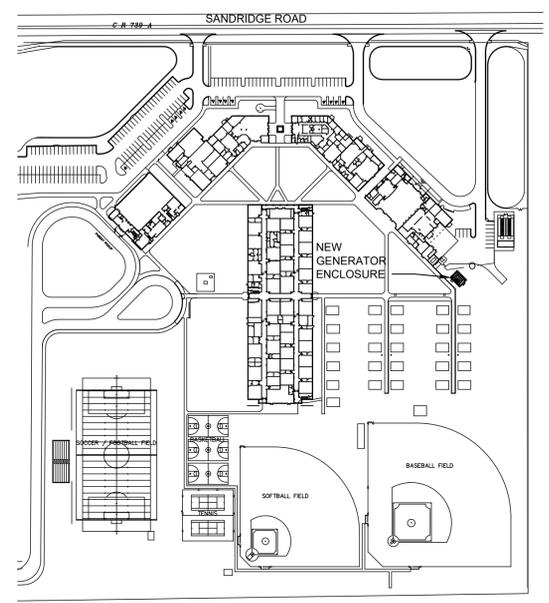
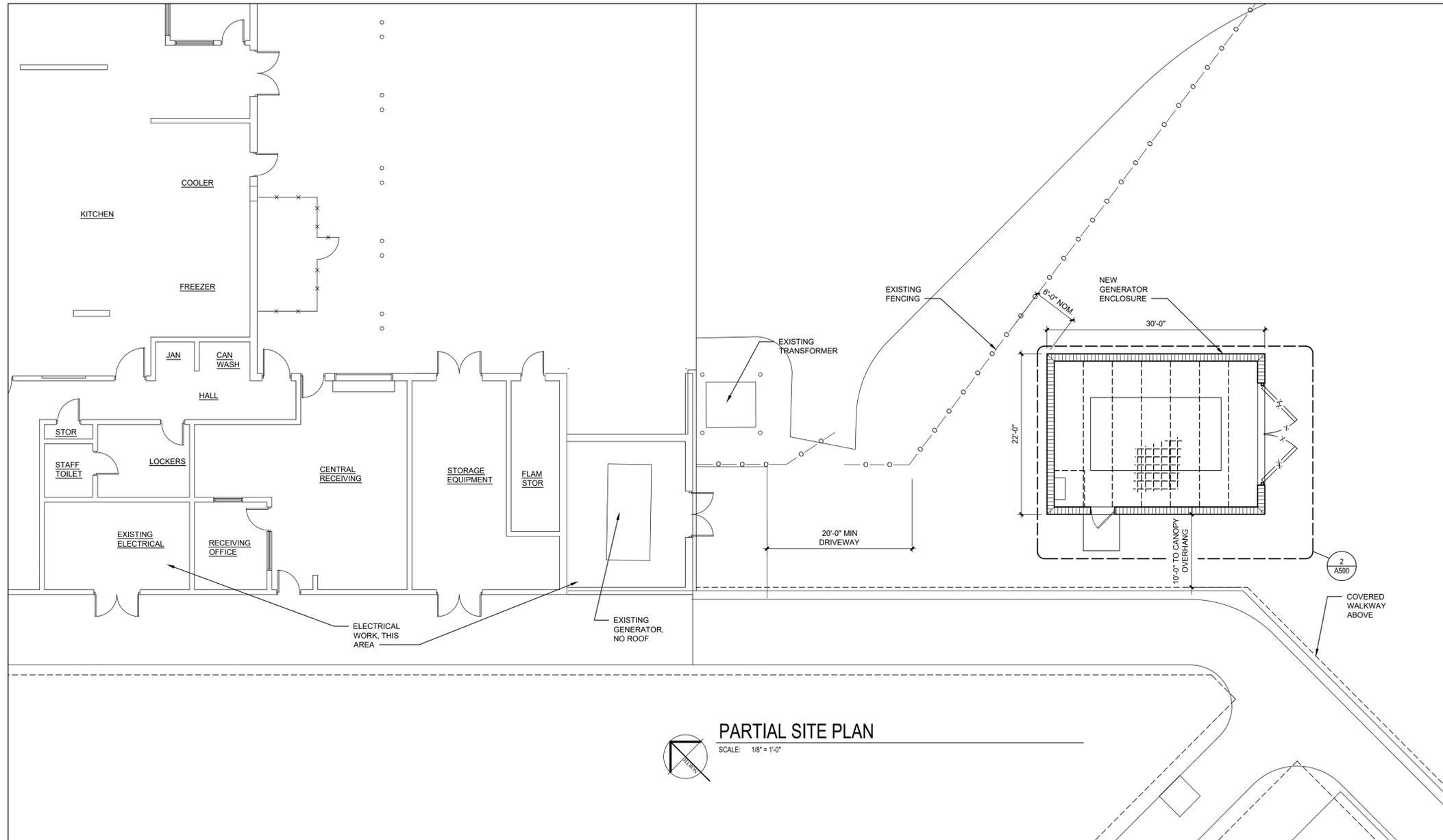
GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO VERIFY THE CONDITION OF THE EXISTING BUILDING AND THE SCOPE OF WORK.
2. ALL DIMENSIONS INDICATED ARE NOMINAL. THE CONTRACTOR SHALL FIELD VERIFY MEASURE ALL DIMENSIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED TO REMOVE AND REINSTALL EQUIPMENT SUCH AS FANS, CONDUITS OR OTHER ITEMS. THE CONTRACTOR SHALL VERIFY THE OPERATION OF ANY EQUIPMENT OR SYSTEM PRIOR TO BEING TEMPORARILY DISCONNECTED AND ITS OPERATION AFTER RECONNECTION.
4. ALL WALL OPENINGS SHALL BE SEALED FROM ENTRY AND/OR WEATHER DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WEATHER RELATED DAMAGE TO INTERIOR FINISHES OR OTHER MATERIALS.
5. THE CONTRACTOR SHALL NOTIFY THE SCHOOL PRINCIPAL 24 HOURS PRIOR TO THE INTERRUPTION OF ANY SYSTEMS OF THE SCHOOL INCLUDING ELECTRICAL, FIRE ALARM, SECURITY AND COMPUTER NETWORKS.
6. DISPOSE OF ALL DEBRIS ON A DAILY BASIS. WORK AREAS AND SIDEWALKS SHALL BE KEPT CLEAN. COORDINATE THE WORK SO AS TO SEPARATE THE OPERATIONS AND CONSTRUCTION MATERIALS FROM STUDENT CONTACT.
7. REPAIR AND REPAINT ANY DAMAGE TO THE INTERIOR/EXTERIOR FINISHES TO MATCH ADJACENT SURFACES.
8. IN THE COURSE OF THIS PROJECT, THE CONTRACTOR CAN ANTICIPATE ENCOUNTERING FINISH MATERIAL NOT SPECIFICALLY INDICATED OR MENTIONED ON THE DRAWINGS OR IN THESE SPECIFICATIONS. THE METHOD OF THE WORK CHOSEN BY THE CONTRACTOR HAS BEARING ON THE QUANTITY AND EXTENT OF FINISHES ENCOUNTERED. EXERCISE CARE IN DEMOLITION TO REDUCE EXTENT OF PATCHING AND REPAIR REQUIRED. CONTRACTOR SHALL REPAIR ALL EXISTING WORK DAMAGED OR DISTURBED BY THE WORK USING SIMILAR MATERIAL TO THAT REQUIRING REPAIR. PATCH TO MATCH EXISTING AND LEAVE ALL WORK IN A FINISHED AND COMPLETE CONDITION.
9. ALL STRUCTURAL STEEL COMPONENTS, INCLUDING EXPANDED METAL MESH, SHALL BE HOT DIPPED GALVANIZED.



REVISIONS							
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DATE	9-19-2019
D.B.	SLC
C.B.	REM
JOB NO.	18052



REVISIONS	DATE	BY	APP'D

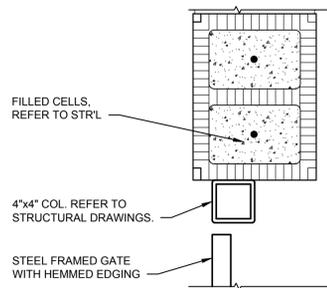
PARTIAL SITE PLAN	
DATE	9-19-2019
D.B.	SLC
C.B.	RMV
JOB NO.	18052

Ultimate Wind Speed, V = 134 mph
 Building Risk Category = IV
 Exposure = C
 Enclosure = Enclosed
 Internal Pressure Coefficient = ±0.18

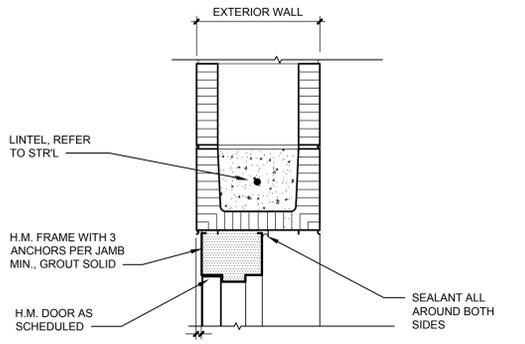
Area	Zone	4	5
10 ft ² or less	4	+44	+44
	5	-48	-59
20 ft ²	4	+43	+43
	5	-46	-56
50 ft ²	4	+40	+40
	5	-44	-50
100 ft ²	4	+38	+38
	5	-42	-46
200 ft ² or larger	4	+35	+35
	5	-40	-42

Area	Zone	4	5
10 ft ² or less	4	+27	+27
	5	-29	-36
20 ft ²	4	+26	+26
	5	-28	-34
50 ft ²	4	+24	+24
	5	-26	-30
100 ft ²	4	+23	+23
	5	-25	-28
200 ft ² or larger	4	+21	+21
	5	-24	-25

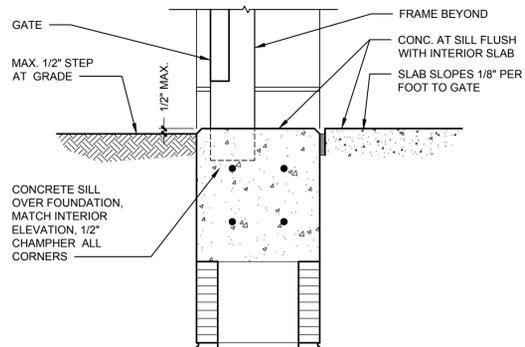
NOTES:
 1. "a" = 10'-4"
 2. THE PROPOSED STRUCTURE IS NOT LOCATED WITHIN A WIND BORNE DEBRIS AREA.
 3. DESIGN PRESSURE VALUES FOR OTHER EFFECTIVE TRIBUTARY AREAS SHALL BE LINEARLY INTERPOLATED BETWEEN VALUES SHOWN.
 4. NOMINAL DESIGN PRESSURES MAY BE USED TO SELECT DOOR AND WINDOW ASSEMBLIES BASED ON MIAMI-DADE NOA OR FLPA DATA.



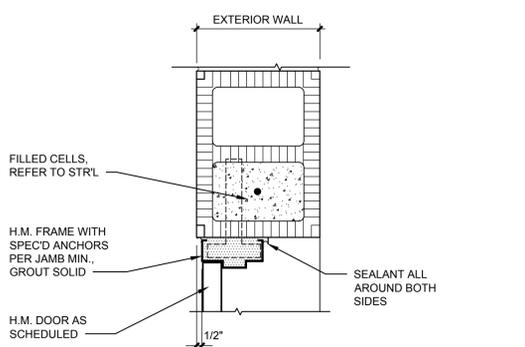
5 JAMB AT STEEL GATES
 SCALE: 1 1/2" = 1'-0"



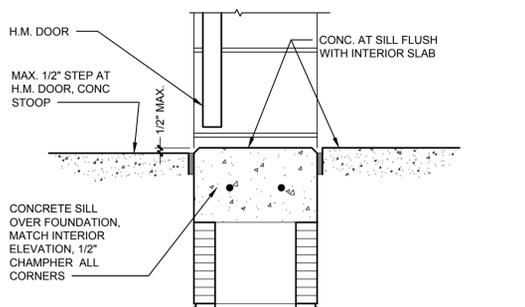
3 4" HEAD, H.M. EXTERIOR CMU
 SCALE: 1 1/2" = 1'-0"



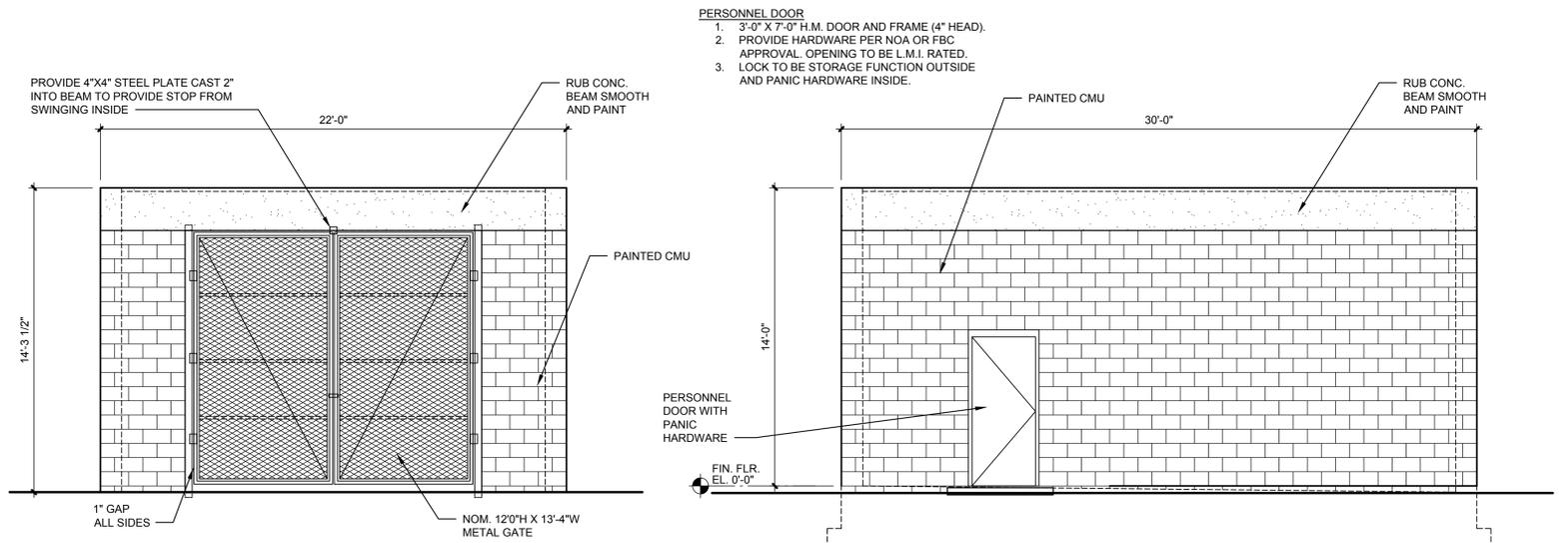
6 SILL, EXTERIOR GATE
 SCALE: 1 1/2" = 1'-0"



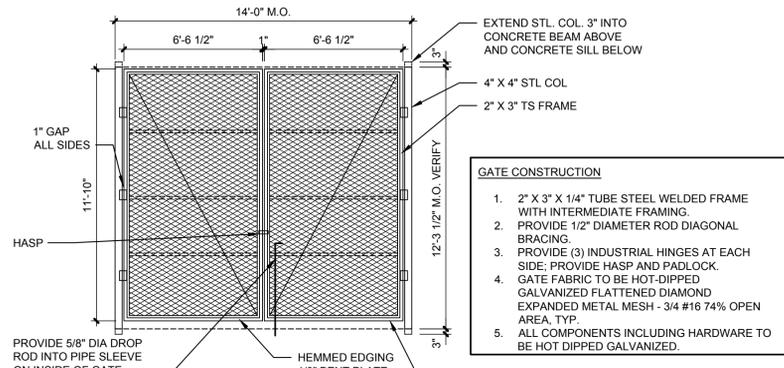
4 JAMB, H.M. EXTERIOR CMU
 SCALE: 1 1/2" = 1'-0"



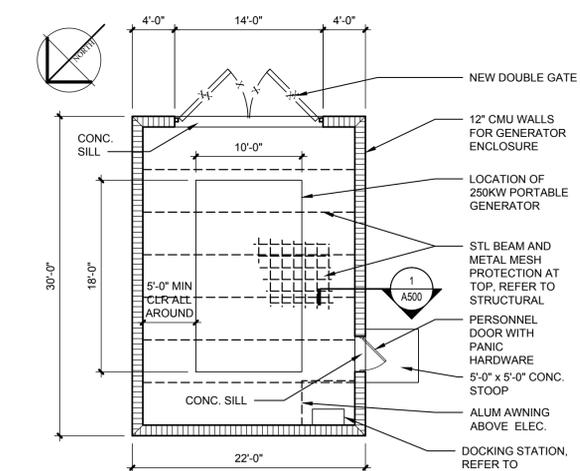
4A SILL, H.M. EXTERIOR CMU
 SCALE: 1 1/2" = 1'-0"



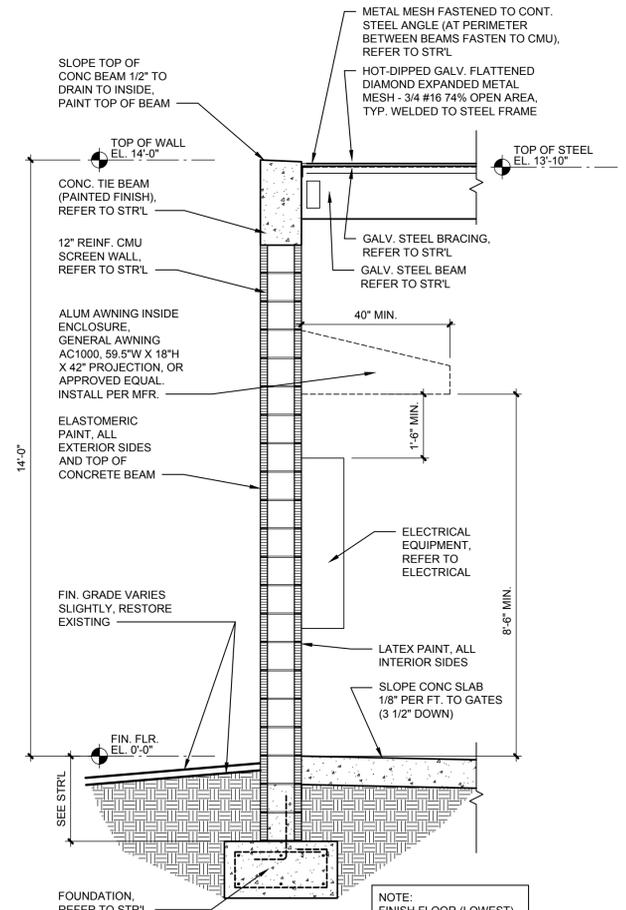
A GENERATOR ENCLOSURE EXTERIOR ELEVATIONS
 SCALE: 1/4" = 1'-0"



B GATE ELEVATION
 SCALE: 1/4" = 1'-0"



2 GENERATOR ENCLOSURE PLAN
 SCALE: 1/8" = 1'-0"



1 SCREEN WALL AT GENERATOR ENCLOSURE
 SCALE: 1/2" = 1'-0"



DATE	9-19-2019
D.B.	S.L.C.
C.B.	R.M.V.
JOB NO.	18052

GENERAL NOTES:

1. GENERAL INFORMATION

- THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR THE CONSTRUCTION MEANS AND METHOD, TECHNIQUES, PROCEDURES OR SEQUENCES OR THE ACTS OF OMISSIONS OF THE CONTRACTOR OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE FOR ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- IF THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT RESTRICTIONS AND REQUIREMENTS SHALL GOVERN.
- PLAN NOTES, DETAILS AND SECTIONS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES. TYPICAL DETAILS AND SECTIONS NOT CUT ON THE PLANS SHALL APPLY UNLESS NOTED OTHERWISE.
- CONTRACTORS ARE REQUIRED TO COORDINATE THEIR RESPECTIVE WORK WITH ALL OTHER DISCIPLINES TO AVOID ANY CONFLICTS DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER CONSTRUCTION DOCUMENTS.
- LOCATION, SIZES AND QUANTITY OF ALL OPENINGS MAY NOT BE COMPLETELY INDICATED ON THE STRUCTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL OPENINGS WITH ALL OTHER DISCIPLINES PRIOR TO ANY FABRICATION.
- CONTRACTORS ARE REQUIRED TO VERIFY EXISTING CONDITIONS PRIOR TO ANY FABRICATION OR CONSTRUCTION. IF EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN, NOTIFY A/E IMMEDIATELY FOR MODIFICATIONS TO THE DRAWINGS.
- THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING, UNDERPINNING, ETC. THE A/E IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR SAFETY PROCEDURES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING THAT IS REQUIRED DURING CONSTRUCTION TO KEEP THE STRUCTURE SAFE AND PLUMB UNTIL THE ENTIRE STRUCTURE IS COMPLETE. ANY BRACING INDICATED OR CALLED FOR ON THESE DRAWINGS ARE DESIGNED FOR THE FINAL AND COMPLETED STRUCTURE ONLY.
- GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSION AND CONDITIONS OF EXISTING STRUCTURE AND SITE THAT ARE AFFECTED BY NEW WORK PRIOR TO ANY ERECTING OR FABRICATION OF NEW STRUCTURAL STEEL.

2. DESIGN CRITERIA

- BUILDING CODE: THE FLORIDA BUILDING CODE 2017, 6TH EDITION.
- DESIGN CODES:
 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-10)
 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13)
 - SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-10)
 - AMERICAN CONCRETE INSTITUTE (ACI 318-14)
 - STRUCTURAL WELDING CODE (ANSI/AWS D1.1)
- DESIGN LOAD CRITERIA:

<u>WIND LOAD CRITERIA:</u>		
– ULTIMATE DESIGN WIND SPEED	Vult = 175 MPH (3 SECOND GUST)	
– NOMINAL DESIGN WIND SPEED	Vosd = 135 MPH	
– RISK CATEGORY	IV (SHELTER)	
– ENCLOSURE CLASSIFICATION	ENCLOSED	
– WIND EXPOSURE CATEGORY	C	

3. CONCRETE

- ALL CONCRETE, UNLESS OTHERWISE NOTED IN SCHEDULES OR DETAILS, SHALL HAVE A MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH OF 3000 PSI. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF).
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED. FOR SURFACE FINISHES AND OTHER REQUIREMENTS, REFER TO ARCH. DWGS..
- DETAILS OF FABRICATION OF REINFORCEMENT, HANDLING AND PLACEMENT OF THE CONCRETE, CONSTRUCTION OF FORMS AND PLACEMENT OF REINFORCEMENT, NOT OTHERWISE COVERED BY THE PLANS AND SPECIFICATIONS, SHALL COMPLY WITH THE LATEST EDITION OF THE A.C.I. CODE AND C.R.S.I. REQUIREMENTS.
- PROVIDE ¾" CHAMFERS ON ALL EXPOSED EDGES OF CONCRETE AND THE EXPOSED CORNERS OF BEAMS, GIRDERS AND COLUMNS UNLESS OTHERWISE SHOWN OR NOTED.
- ALL MISCELLANEOUS ITEMS TO BE INSTALLED IN ANY CONCRETE WORK, SUCH AS PIPES, ELECTRICAL CONDUITS, DOVETAIL ANCHOR SLOTS, RELETS, ETC., SHALL BE PROPERLY LOCATED, INSTALLED AND CHECKED PRIOR TO PLACEMENT OF CONCRETE. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR THE EXACT EXTENT AND LOCATION OF THESE ITEMS THAT ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.

4. REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315, ACI 318, AND CRSI.
- REINFORCEMENT SHALL HAVE DEFORMED SURFACES IN ACCORDANCE WITH ASTM A615 WITH MINIMUM YIELD STRENGTH OF 60,000 PSI.
- ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE.
- REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE PROTECTION (CLEAR COVER) UNLESS OTHERWISE NOTED:
 - SURFACES NOT FORMED AND IN CONTACT WITH SOIL 3"
 - FORMED SURFACES IN CONTACT WITH SOIL OR WEATHER 2"
- REINFORCING STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL CAREFULLY CHECK AND "APPROVE" BEFORE STAMP SUBMITTING TO THE EOR. NO SPLICES OR OTHER DETAILS ARE TO BE ADDED WITHOUT SUBMITTAL.

5. CONCRETE MASONRY

- ALL MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530-13/ASCE 5-13/TMS 402-13" BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", LATEST EDITION.
- CONCRETE MASONRY UNITS SHALL BE ASTM C90, HOLLOW LOAD BEARING UNITS, TYPE 1, GRADE N-1, NORMAL WEIGHT, WITH A MIN. COMPRESSIVE STRENGTH OF 2,000 PSI (f'm = 2,000 PSI).
- GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI PER ASTM C1019. GROUT SHALL BE MIXED TO PROVIDE A SLUMP BETWEEN 8" TO 11".
- MORTAR SHALL CONFORM TO ASTM C270 TYPE M OR S.
- LAP VERTICAL BARS MINIMUM OF 48 BAR DIAMETERS WITH WIRE TIES.
- GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT IN 4'-0" LIFTS MAXIMUM. DO NOT BEGIN PLACEMENT OF GROUT UNTIL ALIGNMENT OF CELLS ARE INSPECTED AND APPROVED.
- ALL CELLS SHALL BE FULLY GROUTED WHERE VERTICAL REINFORCEMENT IS INDICATE ON THESE DRAWINGS.
- FILL ALL CELLS BELOW FINISHED GRADE.
- PROVIDE #9 GALV. HORIZONTAL JOINT REINFORCEMENT IN WALLS AT 16"O.C. VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN BOND BEAMS AT 8"O.C. VERTICALLY. LAP JOINT REINFORCEMENT @ 12" O.C. MINIMUM.
- PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 32"O.C. ACROSS VERTICAL CONTROL JOINTS IN WALLS AT 16"O.C. AND ACROSS VERTICAL CONTROL JOINTS IN BOND BEAMS. TOP AND BOTTOM REINFORCEMENT IN SPANDREL BEAMS SHALL BE CONTINUOUS ACROSS CONTROL JOINTS.
- PROVIDE 8"x16" BOND BEAM @ TOP OF WALLS. REINFORCE BOND BEAM WITH (2) #5 PER 8" OF DEPTH U.O.N.
- PROVIDE (1) #5 BAR VERTICAL MINIMUM AT ALL CORNERS, INTERSECTIONS AND EACH SIDE OF CONTROL JOINTS.
- PROVIDE (2) #5 BARS VERTICAL AT 8"O.C. AT END WALLS. PROVIDE #5 @ 48"O.C. MINIMUM VERTICAL REINFORCEMENT, TYPICAL U.N.O. ON PLAN.
- PROVIDE (2) #5 BAR VERTICAL MINIMUM EACH SIDE OF OPENINGS.
- ALL REINFORCED HOLLOW UNIT MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. WALLS AND CROSS WEBS FORMING SUCH CELLS TO BE FILLED SHALL BE FULL-BEDDED IN MORTAR TO PREVENT LEAKAGE OF GROUT. ALL HEAD (OR END) JOINTS SHALL BE SOLIDLY FILLED WITH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE WALL OR UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES OR BY EQUIVALENT MECHANICAL ANCHORAGE.
- VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS, VERTICAL CELL MEASURING NOT LESS THAN 3" AND HAVING A CLEAR AREA OF 10 SQUARE INCHES.
- VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 10 FEET.
- WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT NOT LESS THAN ½" BELOW THE TOP OF THE UPPERMOST UNIT GROUTED.
- WHERE LINTELS BEAR ON MASONRY WALLS, THEY SHALL BEAR ON EITHER A BOND BEAM COURSE OR CORES GROUTED SOLID. ALL LINTELS SHALL HAVE AT LEAST 8" OF BEARING AT EACH END UNLESS NOTED OTHERWISE.
- ALL GROUT PLACED SHALL BE VIBRATED BY MECHANICAL VIBRATORS.
- PROVIDE CONTROL JOINTS IN MASONRY WALLS AT A MAXIMUM OF 25'-0". COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS.

6. STRUCTURAL STEEL

- DETAILS FOR DESIGN, FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST A.I.S.C. STANDARDS UNLESS OTHERWISE NOTED OR SPECIFIED.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING U.N.O. ON THE STRUCTURAL DRAWINGS:
 - WIDE FLANGE SHAPES ASTM A992 (Fy = 50 KSI)
 - CHANNELS, ANGLES, PLATES, BARS ASTM A36 (Fy = 36 KSI)
- ALL STRUCTURAL BOLTS (INCLUDING WASHERS AND NUTS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR A490. ALL BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION U.N.O. BOLTING OF STRUCTURAL STEEL SHALL CONFORM TO THE PROVISIONS OF RCSC "SPECIFICATIONS" FOR STRUCTURAL JOINTS USING ASTM A325 AND A490 BOLTS.
- MINIMUM SIZE OF BOLTS SHALL BE ¾" DIAMETER, AND EACH CONNECTION SHALL HAVE A MINIMUM OF 2 BOLTS WITH ONE HARDENED WASHER PER BOLT.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F-1554, GRADE 36, AS NOTED ON THE DRAWINGS. REFER TO TYPICAL DETAIL FOR SIZE AND LENGTH.
- PERMANENT MACHINE BOLTS, USING AN APPROVED TYPE OF SELF ANCHORING HEX NUT, MAY BE USED FOR SUCH MINOR CONNECTIONS AS SHELF ANGLES, CLOSURES, ETC.
- EXPANSION BOLTS SHALL BE A MINIMUM OF ¾" DIAMETER (HILTI KWIK BOLT II OR APPROVED EQUAL) WITH A MIN. EMBEDMENT OF ¾" INTO CONCRETE AND 5/8" INTO GROUT FILLED CONCRETE MASONRY UNITS.
- EPOXY ANCHOR BOLTS SHALL BE A MINIMUM OF HITL RE500-SD (OR APPROVED EQUAL). MINIMUM EMBEDMENT SHALL BE 12" TIMES BAR DIAMETER U.O.N. FOLLOW ALL WRITTEN MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.
- WELDING PROCEDURES SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S (AWS) STRUCTURAL WELDING CODES. ALL WELDING SHALL BE PERFORMED BY PREQUALIFIED WELDERS.
- WELDED CONNECTIONS FOR STEEL MEETING ASTM A992 OR A572 SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. OTHER WELDED CONNECTIONS TO BE MADE WITH REGULAR E70XX ELECTRODES.
- WELDS NOT OTHERWISE NOTED ON DRAWINGS SHALL BE CONTINUOUS FILLET WELDS. THE MINIMUM SIZE SHALL BE ¼", (MIN. 2"-12") OR AS REQUIRED BY THE AISC SPECIFICATIONS, WHICHEVER IS LARGER.
- MINIMUM THICKNESS OF ALL CONNECTION MATERIAL SHALL BE 5/16".
- UNLESS NOTED OTHERWISE, ALL SIMPLE BEAM SHEAR CONNECTIONS SHALL BE MADE USING DOUBLE ANGLE CONNECTIONS. CONNECTIONS SHALL BE HIGH STRENGTH BOLT BEARING TYPE WITH THREADED PARTS INCLUDED IN THE SHEAR PLANE. ALL CONNECTIONS, UNLESS FULLY DETAILED ON THE STRUCTURAL DRAWINGS, SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR TO MEET BOTH AISC AND OSHA REQUIREMENTS. REFER TO TYPICAL DETAILS FOR TYPE OF SIMPLE BEAM CONNECTION AND MINIMUM BOLT REQUIREMENTS.
- PROVIDE TEMPORARY ERECTION BRACING OF THE STRUCTURE UNTIL ALL PERMANENT LATERAL SUPPORT IS IN PLACE. FIELD PAINT, WHERE APPLICABLE, ALL FIELD WELDS, ABRASIONS, RUST SPOTS AND FIELD BOLTS ON STRUCTURAL STEEL, JOISTS AND DECKING AFTER ERECTION.
- ALL EDGE ANGLES OR BENT PLATES SHALL BE FIELD APPLIED TO THE BEAMS WITH ±1/8" HORIZONTAL AND VERTICAL TOLERANCE TO FACILITATE OTHER INSTALLATIONS.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STEEL.
- ALL INTERIOR & EXTERIOR EXPOSED STEEL SHALL RECEIVE ONE SHOP COAT OF RED OXIDE PRIMER. INTERIOR STEEL BEAMS, COLUMNS, ANGLES ETC. ARE REQUIRED TO BE SHOP PRIMED PRIOR TO PAINTING EXPOSED STEEL.

7. SUBMITTALS

CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR APPROVAL PRIOR TO FABRICATION AND ERECTION:

- CONCRETE MIX DESIGNS.
- STEEL REINFORCEMENT SHOP DRAWINGS.
- MASONRY MATERIALS AND ACCESSORIES.
- STRUCTURAL STEEL SHOP DRAWINGS.
- TESTING LAB RESULTS FOR SOIL DENSITY AND CONCRETE COMPRESSIVE STRENGTH.

ABBREVIATIONS			
AB	- ANCHOR BOLT	K	- KIP(S)
ALT	- ALTERNATE	KIP(S)	- 1000 POUNDS
APPROX	- APPROXIMATELY	KL	- KIPS PER LINEAR FOOT
ARCH	- ARCHITECT	KJ	- CONSTRUCTION JOINT
ARCH'L	- ARCHITECTURAL	L	- ANGLE
B/	- BOTTOM OF	LG	- LONG
BC	- BOTTOM CHORD	LLH	- LONG LEG HORIZONTAL
BLDG	- BUILDING	LLV	- LONG LEG VERTICAL
BM	- BEAM	LP	- LOW POINT
BOTT	- BOTTOM	LW	- LONG WAY
BRG	- BEARING	MFR	- MANUFACTURER
C/C	- CENTER TO CENTER	MAS	- MASONRY
CIP	- CAST IN PLACE	MO	- MASONRY OPENING
CJ	- CONTRACTION JOINT	MAT'L	- MATERIAL
CL	- CENTERLINE	MAX	- MAXIMUM
CLR	- CLEAR	MECH'L	- MECHANICAL
CMU	- CONCRETE MASONRY UNIT	MTL	- METAL
COL	- COLUMN	MIN	- MINIMUM
CONC	- CONCRETE	MISC	- MISCELLANEOUS
CONFIG	- CONFIGURATION	NS	- NEAR SIDE
CONT	- CONTINUOUS	NIC	- NOT IN CONTRACT
CONTR	- CONTRACTOR	NTS	- NOT TO SCALE
CTR	- CENTER	OC	- ON CENTER
DBL	- DOUBLE	OH	- OPPOSITE HAND
DET	- DETAIL	OPNG	- OPENING
DIA	- DIAMETER	PAF	- POWDER ACTUATED FASTENERS
DIM	- DIMENSION	PART	- PARTITION
DN	- DOWN	PART'L	- PARTIAL
DR	- DOOR/DRAIN	PCJ	- PRECAST CONCRETE JOIST
DWG	- DRAWING	PL	- PLATE
EA	- EACH	PLF	- POUNDS PER LINEAR FOOT
EE	- EACH END	PSF	- POUNDS PER SQUARE FOOT
EF	- EACH FACE	PSI	- POUNDS PER SQUARE INCH
EJ	- EXPANSION JOINT	PT	- POST TENSIONED/PRESSURE TREATED
EL	- ELEVATION	R	- RISER/RADIUS
ELEV	- ELEVATION/ELEVATOR	REG	- REGULAR
ENGR	- ENGINEER	REINF	- REINFORCING
EOR	- ENGINEER OF RECORD	REM	- REMAINDER
EOS	- EDGE OF SLAB	REQ'D	- REQUIRED
EQ	- EQUAL	REV	- REVISED/REVISION
EW	- EACH WAY	RM	- ROOM
EXIST	- EXISTING	RO	- ROUGH OPENING
EXP	- EXPANSION	ROMTS	- REQUIREMENTS
EXT	- EXTERIOR	SCHED	- SCHEDULE
FIN	- FINISH	SECT	- SECTION
FLR	- FLOOR	SM	- SIMILAR
FND	- FOUNDATION	SL	- SLOPE
FOM	- FACE OF MASONRY	SOG	- SLAB-ON-GRADE
FS	- FAR SIDE	SP	- SPIRAL
FT	- FOOT	SO	- SQUARE
FTG	- FOOTING	SS	- STAINLESS STEEL
GA	- GAGE	STD	- STANDARD
GALV	- GALVANIZED	STL	- STEEL
GC	- GENERAL CONTRACTOR	STRUCT'L	- STRUCTURAL
GT	- GIRDER TRUSS	SW	- SHEARWALL/SHORT WAY
HC	- HOLLOW CORE	T/	- TOP OF
HCP	- HOLLOW CORE PLANK	TB	- TIE BEAM
HDG	- HOT DIPPED GALVANIZED	TC	- TIE COLUMN/TOP CHORD
HG	- HIP GIRDER	TEMP	- TEMPERATURE
HK	- HOOK	TJ	- TIE JOIST
HORIZ	- HORIZONTAL	T/O	- THRU OUT
HP	- HIGH POINT	TR	- TREAD/TRUSS
HS	- HIGH STRENGTH	TYP	- TYPICAL
IJ	- ISOLATION JOINT	UNO	- UNLESS NOTED OTHERWISE
INFO	- INFORMATION	VERT	- VERTICAL
INT	- INTERIOR	W/	- WITH
IRR	- IRRREGULAR	W/O	- WITHOUT
JR	- JAMB REINFORCING	WD	- WOOD
JT	- JOINT	WP	- WORK POINT
		WWR	- WELDED WIRE REINFCROMENT

BHIDE & HALL ARCHITECTS, P.A.
 1329 KINGSLEY AVENUE, SUITE C ORANGE PARK, FLORIDA 32073 PH: (904) 264-1919 LIC. NO. A.A.C.000669

G.M. HILL
 G.M.Hill Engineering, Inc.
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LAKE ASBURY JUNIOR HIGH SCHOOL
HURRICANE RETROFIT 2019, BID # 18/19-23
 for CLAY COUNTY BOARD OF COMMISSIONERS

2851 Sandridge Road
 Green Cove Springs, FL 32043

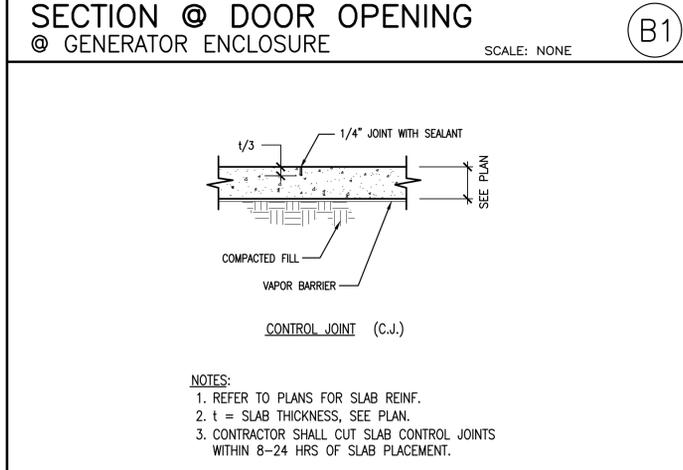
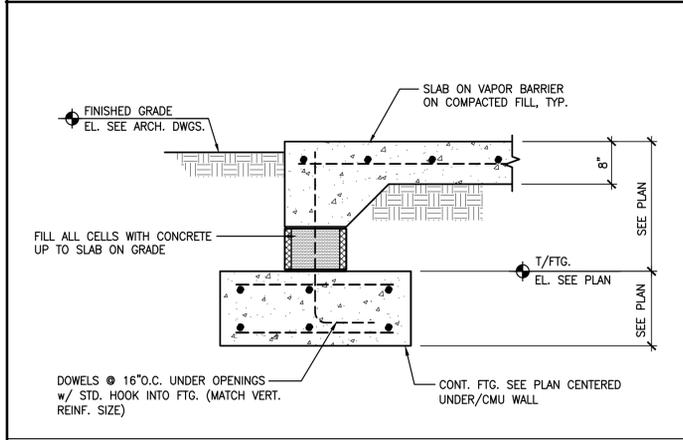
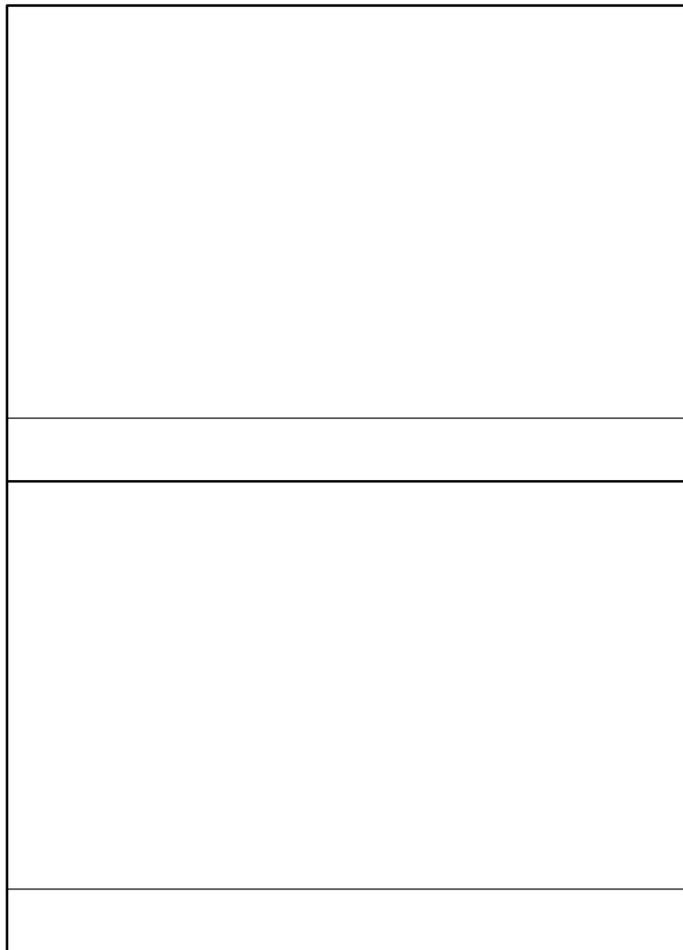
Structural Engineer License No. Jeffrey D. McGee 45944

DATE	REVISION	BY

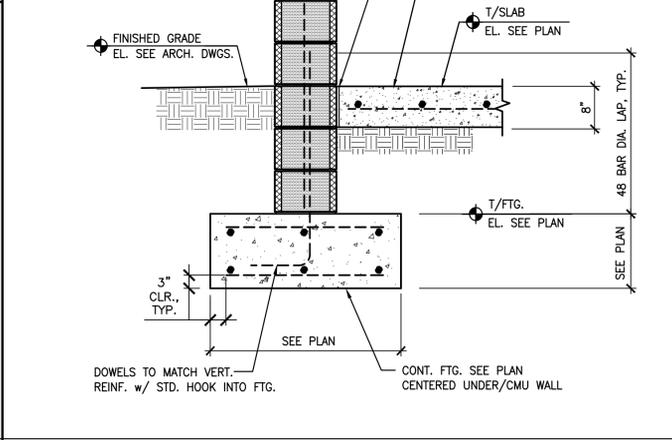
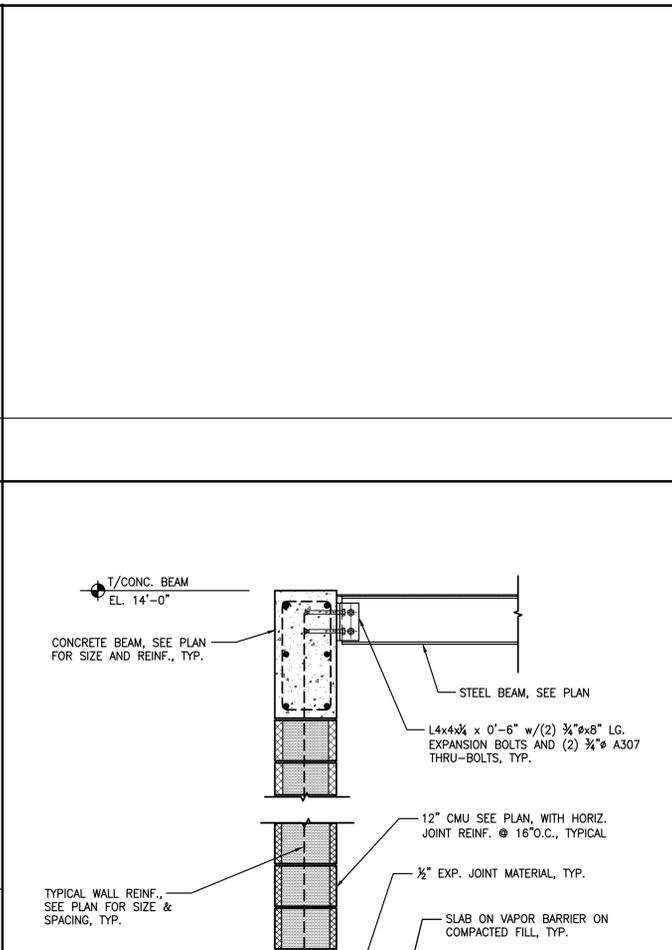
DESIGN CRITERIA AND GENERAL NOTES

DATE	09-19-2019
D.B.	TMP
C.B.	KM/JDM
JOB NO.	18052

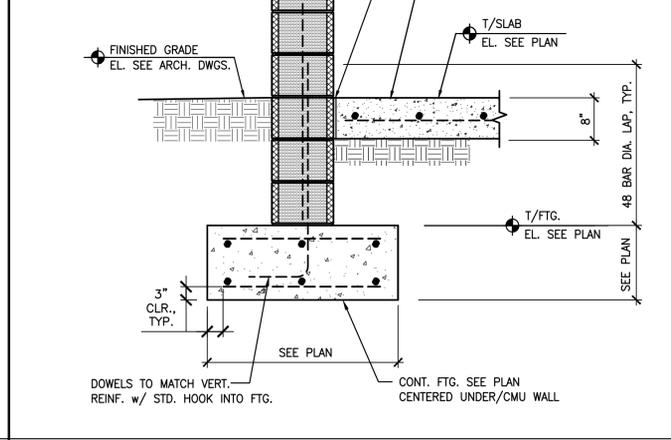
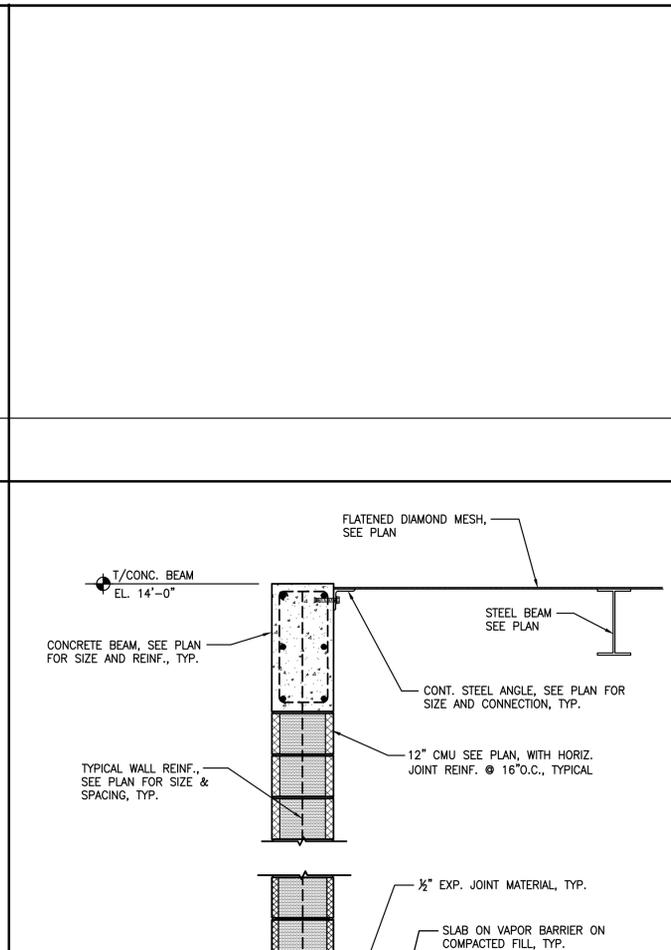
S-0
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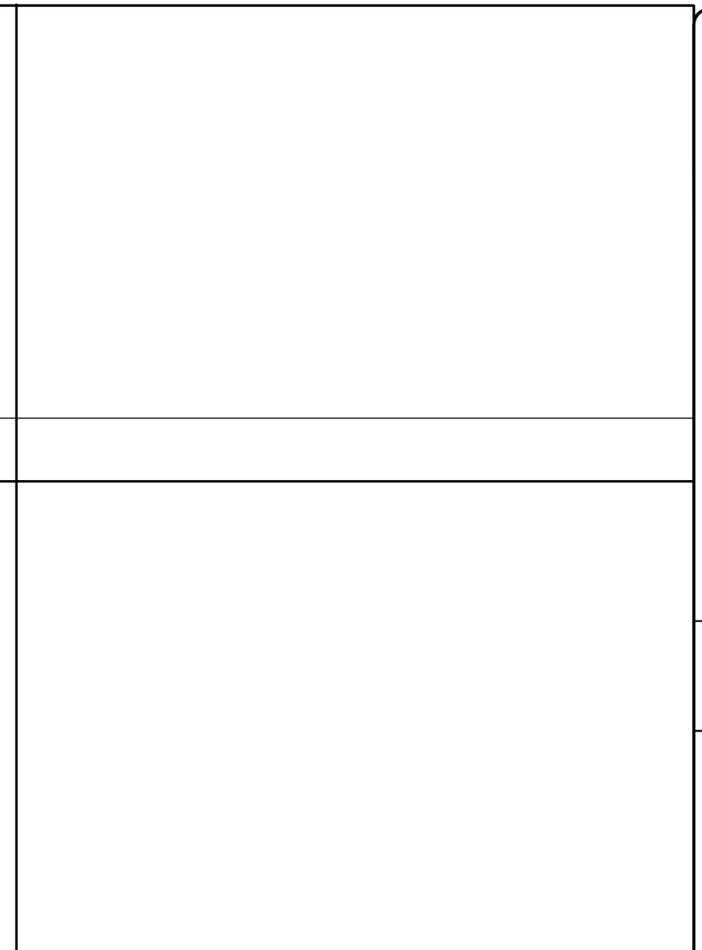
SECTION @ DOOR OPENING @ GENERATOR ENCLOSURE (B1) SCALE: NONE



SLAB JOINT DETAILS (A1) SCALE: NONE



CORNER REINF. AT FTG. CONC. TIE & BOND BEAMS SIM. (A2) SCALE: NONE



C.M.U. JAMB DETAILS (A3) SCALE: NONE

BHIDE & HALL ARCHITECTS, P.A.
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G.M. HILL STRUCTURAL
 G.M. Hill Engineering, Inc.
 2851 Sandridge Road
 Jacksonville, Florida 32227
 Phone: (904) 280-8244
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 Job #: 12-1100307

LAKE ASBURY JUNIOR HIGH SCHOOL HURRICANE RETROFIT 2019, BID # 18/19-23
 for CLAY COUNTY BOARD OF COMMISSIONERS

2851 Sandridge Road
 Green Cove Springs, FL 32043

DATE	REVISION

Structural Engineer License No. 45944
 Jeffrey D. McGee

SECTIONS AND DETAILS

DATE	BY	CHK'D
09-19-2019	JDM	TMP

S-2
 BID SET

GENERAL NOTES:

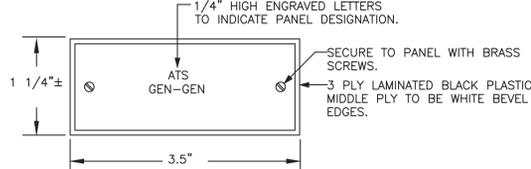
1. THERE SHALL NOT BE ANY INTERRUPTION TO SERVICES TO THE EXISTING BUILDINGS WITHOUT PRIOR SCHEDULING OF SUCH OUTAGES WITH THE OWNER'S REPRESENTATIVE. THE FIRE ALARM SYSTEM SHALL NOT BE OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24 HOUR PERIOD. CODE ENFORCEMENT SHALL BE NOTIFIED, AND THE BUILDING EVACUATED OR AN APPROVED FIRE WATCH PROVIDED.
2. WHERE FEEDERS ARE ABANDONED, WIRE SHALL BE PULLED OUT AND ALL EXPOSED SECTIONS OF CONDUITS REMOVED. ALL SWITCHES, PANELS, ETC. SHALL BE REMOVED. ALL CONCEALED CONDUITS SHALL BE CAPPED AT POINT OF CONCEALMENT.
3. THE CONTRACTOR SHALL NOT TAKE POSSESSION OF OR DISPOSE OF ANY SALVAGEABLE ITEMS IN ASSOCIATION WITH THE WORK. ALL SALVAGEABLE ITEMS SHALL BE THE OWNER'S PROPERTY AT HIS OPTION. ALL UNSALVAGEABLE EQUIPMENT AND MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
4. THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ANY MODIFICATIONS TO EXISTING SYSTEMS AND SHALL UPON COMPLETION, DELIVER "AS-BUILT" DRAWINGS TO THE OWNER, INDICATING ANY SUCH CHANGES.
5. CONTRACTOR MAY RE-USE ANY EXISTING CONDUIT, PROVIDING EXISTING CONDUITS MEET NEC AND PROJECT SPECIFICATIONS. WHERE FEEDERS ARE ABANDONED, WIRE SHALL BE PULLED OUT AND ALL EXPOSED SECTIONS OF CONDUITS REMOVED. ALL CONCEALED CONDUITS SHALL BE CAPPED AT POINT OF CONCEALMENT.
6. PROVIDE ALL WORK REQUIRED TO PROVIDE COMPLETE CONDUIT SYSTEMS AND RUNS. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL MATERIALS, INSTALLATION HARDWARE, DRILLING OF WALLS, TRENCHING, MOUNTING HARDWARE, LABOR, PAINTING, REPAIRING OF EXISTING SURFACES, FIRESTOPPING AND ACCESSORIES.
7. CONTRACTOR SHALL VISIT SITE PRIOR TO PREPARING HIS BID AND DETERMINE THE EXTENT OF EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES AND ADDITIONS. ALL THE NECESSARY REROUTING, RELOCATING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING, ETC. SHALL BE INCLUDED IN THE SCOPE OF THIS WORK. ANY VARIATION FROM EXISTING CONDITIONS SHALL BE INCLUDED UNDER THIS CONTRACT.
8. RESTORE DISTURBED CEILINGS/WALLS TO ITS ORIGINAL CONDITION. FINISH AND PAINT DAMAGED AREAS. PAINT SHALL MATCH EXISTING. REPLACE DAMAGED CEILING TILES. NEW CEILING TILES SHALL BE SAME TYPE AND QUALITY OF EXISTING TILES.
9. PAINT ALL INTERIOR AND EXTERIOR, EXPOSED CONDUITS SAME COLOR AS SURFACE.
10. ALL PAINTING SHALL BE IN ACCORDANCE WITH FDOE & FLORIDA SCHOOL PLANT MANAGEMENT ASSOCIATION PLANT SPECIFICATIONS. SEE THE FOLLOWING MINIMUM SPECIFICATIONS: INTERIOR PAINT - 1 COAT OF ALKYD RESIN PRIMER AND 2 COATS OF ALKYD ENAMEL. 1 COAT OF ALKYD RUST - INHIBITIVE PRIMER AND 2 COATS OF ALKYD ENAMEL.
11. CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILING SPACE, OR UNDERGROUND. SURFACE MOUNTED CONDUITS WILL BE PERMITTED ON CONCRETE WALLS OR ON CEILINGS WITH NO CAVITY.
12. TRENCHING AND BACKFILL: EXISTING UTILITY LINES MAY BE IN THE PATH OF THE NEW UNDERGROUND CONDUIT INSTALLATIONS. THE USE OF CHAIN TRENCHING MACHINES WILL NOT BE PERMITTED. CONTRACTOR SHALL PROMPTLY REPAIR ANY UTILITY LINES DAMAGED BY HIS OPERATION. DISTURBED SURFACES SHALL BE RESTORED TO ITS ORIGINAL CONDITION. PROVIDE SOD, PATCH PAVEMENT, PATCH SIDE WALKS ETC. TO MATCH EXISTING.
13. ALL EXTERIOR OUTLET BOXES SHALL BE CAST METAL, GASKETED, AND NEMA-3R. PAINT SAME COLOR AS SURFACE.
14. UPDATE PANEL BOARD DIRECTORIES TO REFLECT TYPE AND LOCATION OF ADDED CIRCUITS. NEW DIRECTORIES SHALL BE TYPED OR MACHINE GENERATED.
15. IF EXISTING HOLES OR OPENINGS IN WALLS AND/OR CEILINGS ARE UTILIZED FOR CONDUIT ROUTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING, CAULKING, FINISHING, OR OTHER MODIFICATIONS REQUIRED TO COMPLETELY REPAIR HOLE OR OPENING IN WALL AND/OR CEILING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRESTOPPING REQUIRED TO RE-ESTABLISH THE FIRE RESISTANCE RATING OF THE BARRIER.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SEALING ALL NEW PENETRATIONS IN FIRE RATED ASSEMBLIES, BOTH VERTICAL AND HORIZONTAL, IN ACCORDANCE WITH SECTION 705 OF THE FLORIDA BUILDING CODE, WHICH REQUIRES THAT ALL INSTALLATIONS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES OR FIRE STOP SYSTEMS SHALL BE AS TESTED BY ASTM E 119 & ASTM E 814.
17. REPAIR ALL SIDEWALKS AND PAVEMENT CUT OR DAMAGED DURING CONSTRUCTION. PATCH / REPAIR TO MATCH EXISTING CONDITION. REPAIR ALL LANDSCAPE AND AREAS OF GRASS DISTURBED DURING CONSTRUCTION. REPLACE SOD AND/OR SEED AREAS AS REQUIRED. ABANDONED EQUIPMENT, PANELS, DEVICES, WIRES, AND CONDUIT SHOULD BE REMOVED BY THE AT COMPLETION OF THE PROJECT.
18. NOTIFY ENGINEER OF ANY ITEMS OF NON-COMPLIANCE, WHETHER IT IS THE RESULT OF NEW WORK OR IS AN UNCOVERED EXISTING CONDITION.
19. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO COVER AND PROTECT EXISTING ELECTRONICS, EQUIPMENT, AND SCHOOL PROPERTY DURING CONSTRUCTION.
20. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40. STUB-UPS (INCLUDING ELLS) SHALL BE RIGID GALVANIZED STEEL CONDUIT. PROVIDE ASPHALTUM COATING TO COVER STEEL CONDUIT AND ELLS IN CONTACT WITH EARTH OR CONCRETE.
21. PROVIDE RGS CONDUIT FOR ABOVE GRADE EXTERIOR RACEWAYS.
22. CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.60, "TRENCH SAFETY ACT".
23. NEATLY TRAIN AND SECURE CABLES INSIDE JUNCTION BOX. PROVIDE LABEL AT END OF EACH CABLE/WIRE SHOWING CIRCUIT NUMBERS AND PANELBOARD DESIGNATION. PROVIDE LABEL AT BOX COVER "EMERGENCY POWER CIRCUITS JUNCTION BOX."
24. DRAWINGS SHOW APPROXIMATE LOCATION OF EQUIPMENT, THE EXACT LOCATION SHALL BE DETERMINED AT BUILDING SITE.
25. CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT GROUND WIRE IN ALL POWER AND LIGHTING WIRING CIRCUITS AND SHALL BOND THE GROUND WIRE TO ALL DEVICES AND EQUIPMENT.
26. ALL CONDUITS PENETRATING A EXTERIOR WALL SHALL BE RGSC AND HAVE 3" CLEARANCE ALL AROUND THE CONDUIT TO ANY OBSTRUCTION TO ALLOW FOR PROPER SEALING OF PENETRATIONS. CONDUITS SHALL BE SUPPORTED WITHIN 12" FROM WALL (TYPICAL).
27. VERIFY THE OPERATION AND FUNCTION OF ATS 1S. ALL FUNCTIONS SHALL MEET NFPA. A GENERATOR TECHNICIAN SHALL BE PRESENT AT COMPLETION TO DEMONSTRATE THE OPERATION OF GENERATOR AND AUTOMATIC TRANSFER SWITCHES.

WARNING
POTENTIAL ARC FLASH HAZARD
APPROPRIATE PPE AND TOOLS REQUIRED
WHEN WORKING ON THIS EQUIPMENT.

- * SELF ADHESIVE YELLOW WORKING SIGN, 2" HIGH BY 4" WIDE.
- * PROVIDE NAME PLATE ON SWITCHBOARD AND ALL PANELS.

NOT TO SCALE

NAME PLATE DETAIL

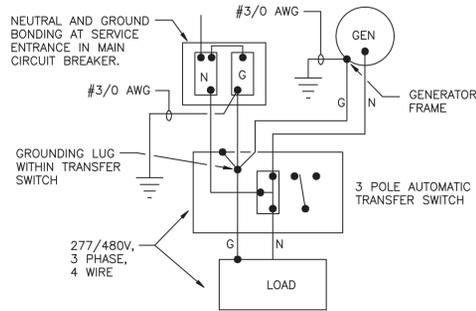


NOTE:

1. PROVIDE NAMEPLATES ON ALL NEW ELECTRICAL EQUIPMENT.

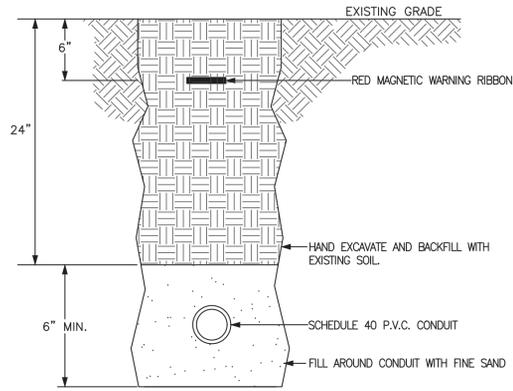
NOT TO SCALE

TYPICAL NAME PLATE DETAIL



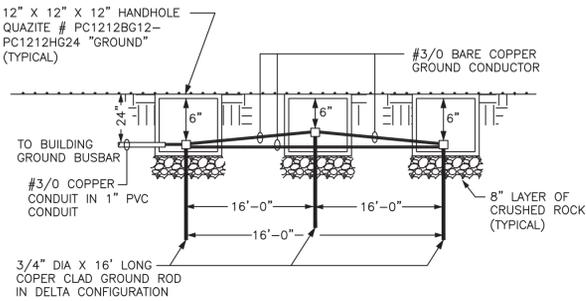
NOT TO SCALE

GENERATOR GROUNDING AND NEUTRAL DETAIL



NOT TO SCALE

DIRECT BURIED CONDUIT DETAIL - LOW VOLTAGE



NOT TO SCALE

GROUND WELL DETAIL

ELECTRICAL LEGEND

- I NEW WALL MOUNTED LIGHTING FIXTURE, BATTERY BACK UP PHOTOCELL, CONNECTED TO LIFE SAFETY BRANCH. BEGHLI, MEZZO SERIES, ME2-LED. ACEMWH - 120/277/AT. 8" MOUNTING HEIGHT.
- § TOGGLE SWITCH - SINGLE POLE - QUIET TYPE 20 AMP, 120/277 VOLT LEVITON NO. 1221-2I WITH NO. 84001-40 COVERPLATE, 46" MOUNTING HEIGHT U.N.O.
- ⊞ DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 20 AMP, 120 VOLT, 3 WIRE GROUNDING. HUBBELL NO. GFR53621R WITH NO. NP26I COVERPLATE, 46" MOUNTING HEIGHT, U.N.O.
- LIGHTING AND/OR POWER PANELBOARD.
- WIRING IN CONDUIT, RUN CONCEALED ABOVE CEILING OR IN WALLS.
- - - WIRING IN CONDUIT, RUN CONCEALED IN SLAB OR UNDERGROUND.
- ⊞ HOMERUN TO PANELBOARD - NUMBER OF ARROWS DENOTES QUANTITY OR CIRCUITS. CROSS MARKS INDICATE QUANTITY OF NO. 12 CONDUCTORS. RUNS VOID OF CROSS MARKS ARE 1/2" CONDUIT, 3 #12, U.N.O. DO NOT COMBINE HOMERUNS EXCEPT AS SPECIFICALLY INDICATED ON THE PLAN.

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300 HURTELY ROAD SUITE 290
JACKSONVILLE FLORIDA 32257
TEL: (904) 262-5666
FAX: (904) 262-5666
CERTIFICATE OF AUTHORIZATION NO. 4009

HADDAD ENGINEERING, INC.



LAKE ASBURY JUNIOR HIGH SCHOOL
HURRICANE RETROFIT 2019, BID # 18/19-23
for CLAY COUNTY BOARD OF COMMISSIONERS
2881 Sandridge Road
Green Cove Springs, FL 32043

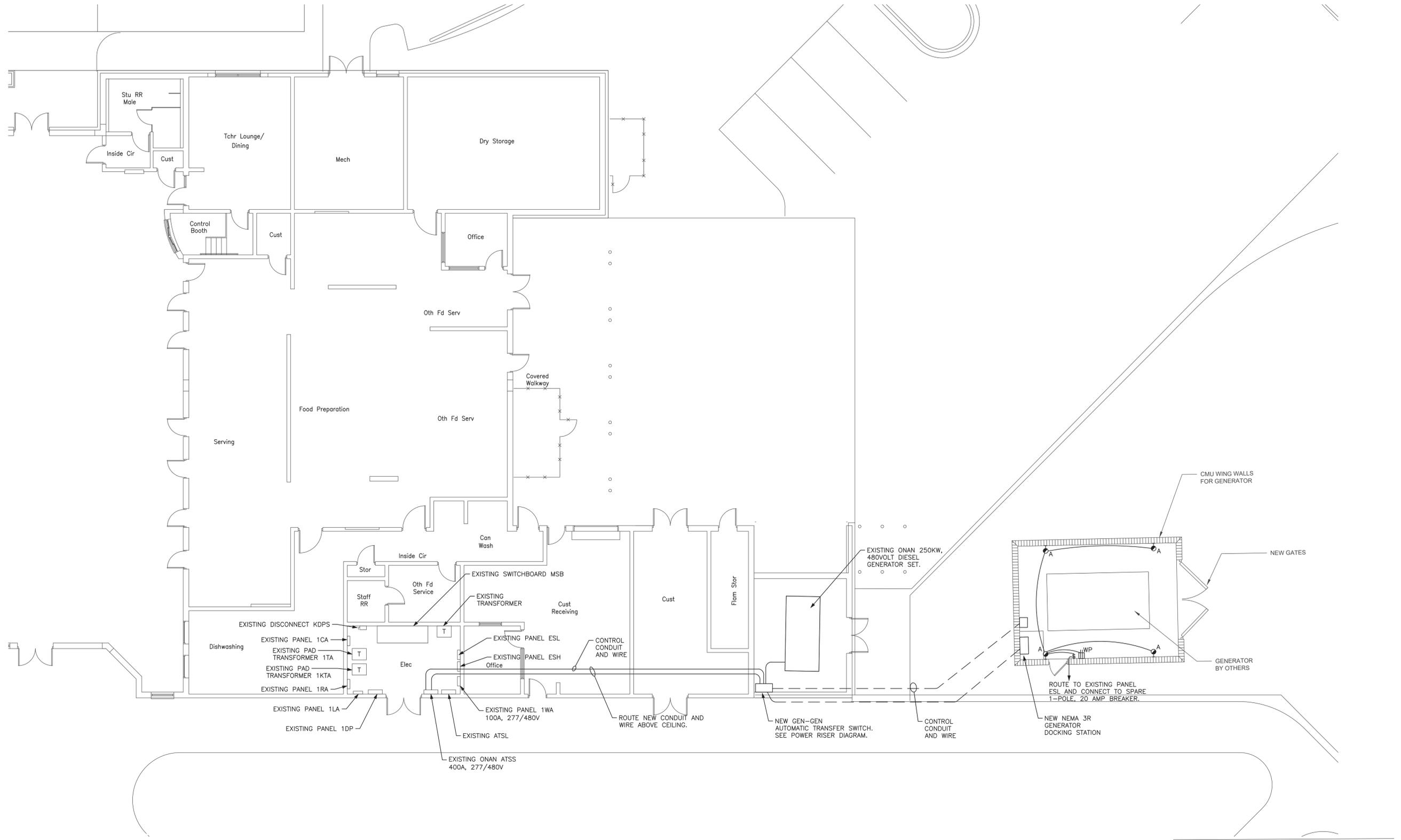
Engineer License No.
Nimir A. Haddad P.E. 31967

REVISIONS

ELECTRICAL LEGEND, NOTES, AND DETAILS

DATE	9-19-2019
D.R.	RE
C.R.	NAH
JOB NO.	18052

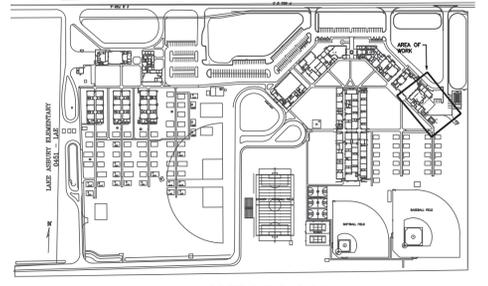
E1.0
BID SET



PARTIAL FLOOR PLAN - ELECTRICAL

8' 6" 4" 2" 0" 8' 16'

GRAPHIC SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

BHIDE & HALL ARCHITECTS, P.A.
1329 KINGSLEY AVENUE, SUITE C ORANGE PARK, FLORIDA 32073 PH: (904) 264-1919 LIC. NO. AC0006509
3000 HARTLEY ROAD, SUITE 200 JACKSONVILLE, FLORIDA 32257 TEL: (904) 262-5066
HADDAD H ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NO. 4090



LAKE ASBURY JUNIOR HIGH SCHOOL HURRICANE RETROFIT 2019, BID # 18/19-23
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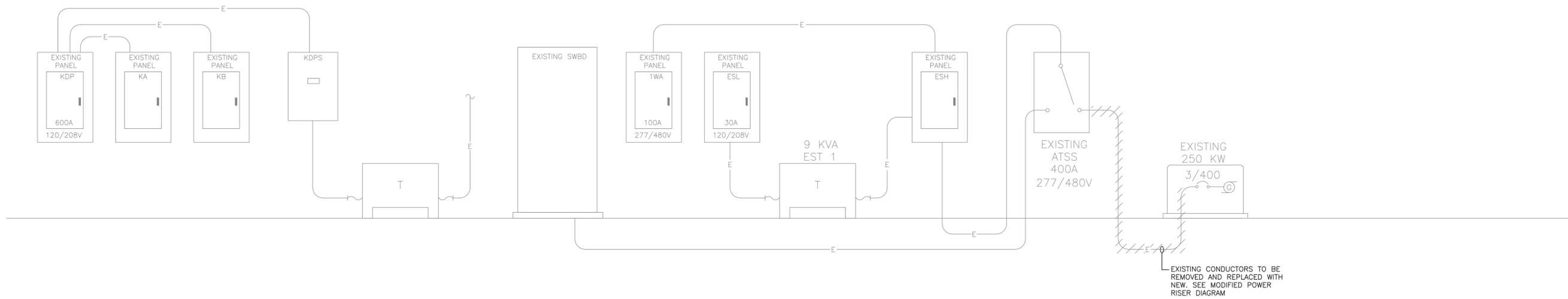
Engineer License No.
Nimir A. Haddad P.E. 31967

REVISIONS	DATE	BY	REASON

PARTIAL FLOOR PLAN - ELECTRICAL

DATE 9-19-2019
D.B. RE
C.B. NAH
JOB NO. 18052

E2.1
BID SET

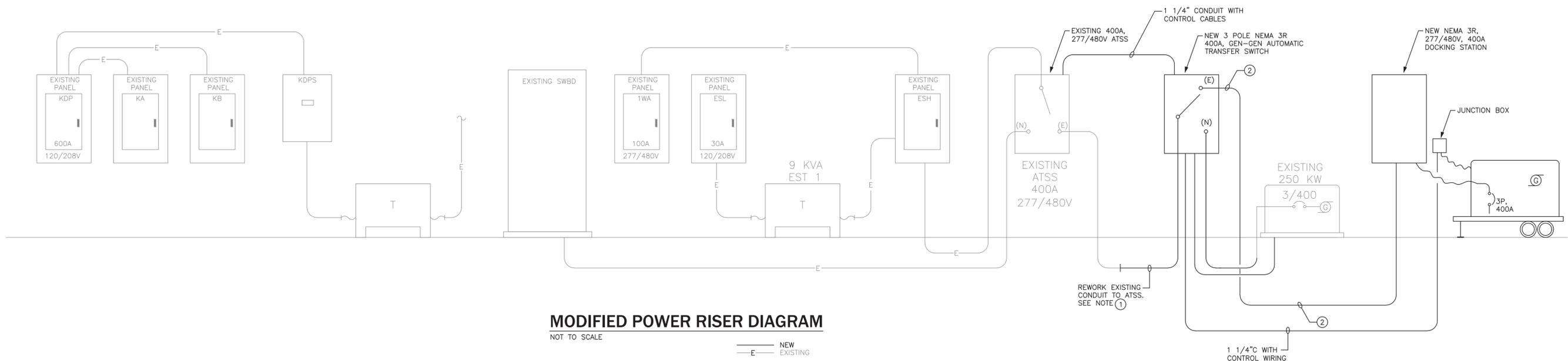


EXISTING POWER RISER DIAGRAM
NOT TO SCALE

////// HATCHING DENOTES ITEM TO BE REMOVED

NOTES:

- INTERCEPT EXISTING CONDUIT AND EXTEND TO NEW ATSS GEN-GEN. PROVIDE 4 #500KCM, 1 #1/0 CABLES IN 3 1/2" CONDUIT.
- NEW 4 #500KCM, 1 #1/0 CABLES IN 3 1/2" CONDUIT.
- DOCKING STATION SHALL BE SOD CAM-LOCK TAP BOX OR EQUAL, NEMA-3R, 400 AMP, 277/480V, TERMINAL LUGS AND CAM-LOCKS.
- PROGRAM EXISTING ATSS'S TO START EXISTING GENERATOR 1ST ON CONCRETE BUILDING LOAD FOR UTILITY POWER OUTAGE. START THE PORTABLE GENERATOR IF THE EXISTING GENERATOR FAILED.
- NEW AUTOMATIC TRANSFER SWITCH SHALL BE SUITABLE FOR GEN-GEN OPERATION. SWITCH SHALL HAVE THE FEATURES TO BE MODIFIED TO MANUAL OPERATION IF THE PORTABLE GENERATOR IS CONNECTED. PROCEDURE OF CONVERSION TO MANUAL SHALL BE POSTED INSIDE NEW ATSS. NEW ATSS GEN-GEN SHALL BE AS MANUFACTURED BY ONAN OR COMPATIBLE WITH EXISTING ATSS.



MODIFIED POWER RISER DIAGRAM
NOT TO SCALE

— NEW
-E- EXISTING



REVISIONS

ELECTRICAL RISER DIAGRAM

DATE	9-19-2019
D.B.	RE
C.B.	NAH
JOB NO.	18052

E
BID SET

