PLANS FOR PROPOSED PUMP STATION IMPROVEMENTS TO

BELEN 2

SW 120 AVE AND SW 6 ST

MIAMI-DADE COUNTY PROJECT NO. 20200044

STEPHEN P. CLARK CENTER

111 NW 1 ST, SUITE 1510

MIAMI, FLORIDA 33128

INDEX OF SHEETS

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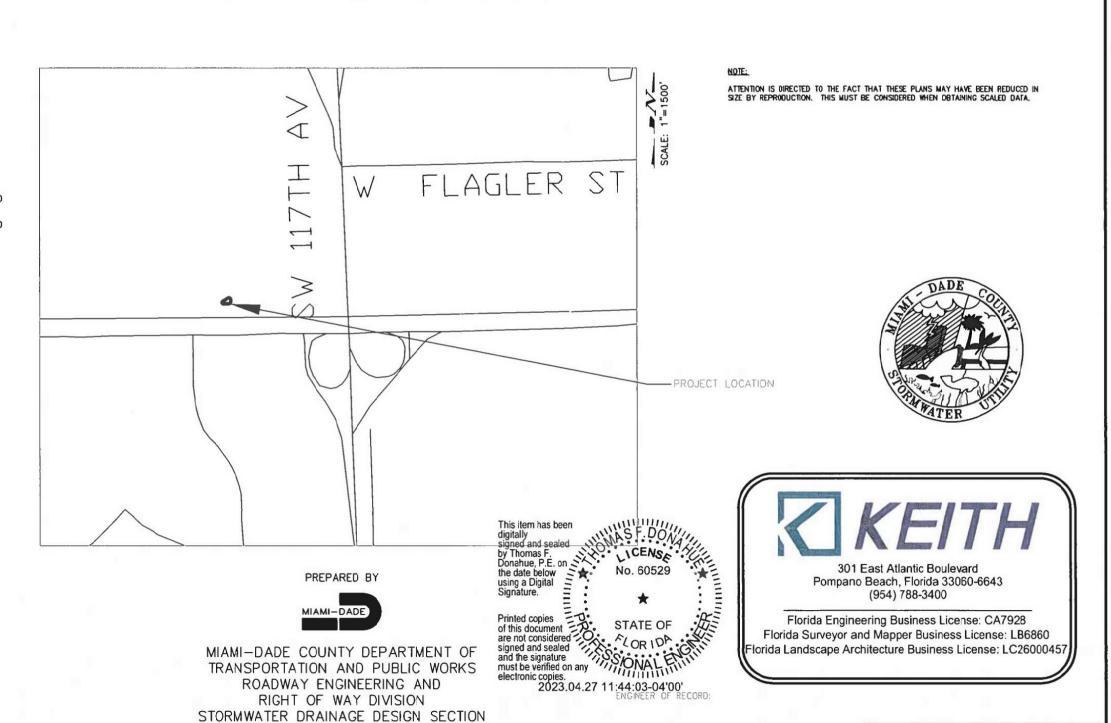
SL	IMMARY OF QU	JANTITI	ES
Item No.	Description	Unit	Quantity
600-4	Pump Station Improvements	L.S.	1

S-100 - GENERATOR ROOM STRUCTURAL PLAN S-101 - GENERATOR ROOM ELEVATION

Note: This Pump Station Improvements item will include but will not be limited to the installation of Three (3)Telemetry sensors with integration to existing SCADA system; Two (2) new 43" X 32" aluminum Wall Louvers; Mobilization; Demolition and Disposal of debris; Coordination of electrical service with Florida Power and Light; and all appurtenant work.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.





THOMAS F. DONAHUE, P.E. FLORIDA REGISTRATION P.E. No. 60529 KEITH CIVIL ENGINEER

 DESIGN
 NM
 CHECK
 TD

 DRAWN
 VC/MD/JN

 DATE
 SEPTEMEBR 2022
 SHEET
 1
 OF
 16

LOCATION MAP: SCALE: 1"=20 FEET.

T	ree Table
Point #	Raw Description
250	T-10D22H24S
251	T-12D21H26S
252	T-17D30H23S
253	T-14D30H24S
254	T=14D21H13S
255	T-14D24H23S
256	T-14D31H21S

ABBREVIATIONS AND MEANINGS:

DTPW MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

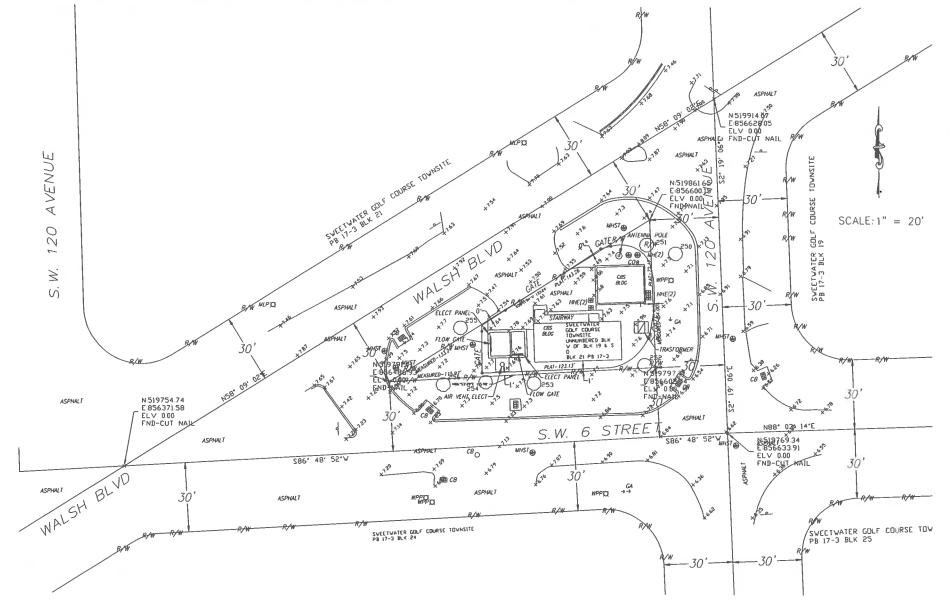
- CENTERLINE
- APPROXIMATE DIAMETER OF TREE TRUNK
- APPROXIMATE HEIGHT OF TREE
- CITY OF MIAMI MONUMENT LINE
- PALM

PROFESSIONAL SURVEYOR AND MAPPER

APPROXIMATE DIAMETER OF TREE CANOPY

TOPOGRAPHIC BOUNDARY SURVEY.

A PUMP STATION (BELEN No-2) ON A PORTION OF A TRACT-19 AND 21 OF PLAT BOOK-17, PAGE-03, SWEET WATER GOLF TOWN COURSE SITE. LYING IN SECTION 1, TOWNSHIP 54 SOUTH, RANGE 39 EAST MIAMI-DADE COUNTY, FLORIDA.



LEGAL NOTES TO ACCOMPANY SPECIFIC PURPOSE SURVEY:

- -THIS SURVEY MAP REPRESENTS A TOPOGRAPHIC BOUNDARY SURVEY.
- -THE PURPOSE OF THIS SURVEY IS TO DEPICT THE LOCATION OF TOPOGRAPHIC FEATURES AND THE BOUNDARY SURVEY OF THE PUMP STATION LOCATED AT S.W 6th ST & S.W 120th AVE. (BELEN-2)

LEGEND: CONTROL POINT METAL PEDESTRIAN POLE 20 EXISTING ELEVATIONS S SANITARY SEWER MANHOLE STORM SEWER MANHOLE MH) MANHOLE UNKNOWN -M- CONCRETE LIGHT POLE DA GAS VALVE M WATER VALVE SEWER VALVE

() VALVE UNKNOWN

SH SPRINKLER HEAD

TREE (VARIOUS)

PALM TREE

STANDPIPE HANDHOLE UNKNOWN

HAND-HOLE TRAFFIC SIGNAL

HAND-HOLE FIBER OPTIC MONITORING WELL

CATCH BASIN

- SIGN

- -THE SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR & MAPPER.
- -THIS SURVEY IS SUBJECT TO DEDICATIONS, LIMITATIONS, RESTRICTIONS, OR EASEMENTS OF RECORD; ALL EASEMENTS (IF ANY) WERE SUPPLIED BY THE CLIENT.
- -SOURCES OF DATA: BASED ON A PROPERTY RECORDER LEGAL DESCRIPTION AND PLAT BOOK 17 PAGE 13 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA
- -ALL DISTANCE MEASUREMENTS WERE MADE IN UNITED STATES SURVEY FEET, UNLESS SHOWN OTHERWISE.
- -THE PROJECT SITE IS LOCATED IN SECTION 1, TOWNSHIP 54 SOUTH, RANGE 39 EAST, IN MIAMI-DADE COUNTY, FLORIDA
- -THE BEARING BASIS FOR THIS SURVEY IS SOUTH 86'48'52" WEST ALONG THE CENTER LINE OF S.W 6th STREET.
- -ELEVATIONS SHOWN HEREON ARE REFERRED TO A RECORDED MIAMI-DADE COUNTY BENCH-MARK N-3D20, ELEVATION=10.81' N.G.V.D.-29.
- -NO ATTEMPT WAS MADE TO LOCATE UNDERGROUND UTILITIES, FOOTINGS, BUILDINGS, EXCEPT AS SHOWN HEREON, IF ANY
- -AN OPINION OF TITLE FOR THE SUBJECT PARCEL WAS NOT PROVIDED; THE SOURCES OF DATA LISTED ABOVE WERE USED AS THE BASIS FOR THIS SURVEY.
- -ARCHITECTS SHALL VERIFY ZONING REGULATIONS, RESTRICTIONS AND SETBACKS AND THEY WILL BE RESPONSIBLE FOR SUBMITTING PLOT PLANS WITH THE CORRECT INFORMATION FOR THE APPROVAL BY MIAMI-DADE COUNTY AUTHORITIES IN ALL CONSTRUCTION, UNLESS OTHERWISE NOTED
- -AERIAL BACKGROUND IMAGES ARE SHOWN FOR GRAPHICAL PURPOSES ONLY AND MAY NOT BE INDICATIVE OF EXISTING SITE CONDITIONS. AERIAL IMAGE ACQUISITION WAS COMPLETED ON JULY 30, 2020.
- -THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1"= 40' OR SMALLER. AT THE MAXIMUM INTENDED DISPLAYED SCALE, THE MAP'S POSITIONAL VALUE OCCUPIES 1/20" ON THE DISPLAY (EXCLUDING THE LOCATION MAP).
- -ADDITIONS OR DELETIONS TO THE SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE.

THAT THE ATTACHED SPECIFIC PURPOSE SURVEY OF THE PROPERTY SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS RECENTLY SURVEYED AND DRAWN UNDER MY SUPERMISTON AND DIRECTION AS RECENTLY SURVEYED AND DRAWN UNDER MY SUPERMISTON AND DIRECTION THIS SURVEY COMPULES WITH THE STANDARDS OF PRACTICE AS SET FORTH IN RULES 5J-17.051 AND 5J-17.052 AS ADDOPTED BY THE FLORIDA STATE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO CHAPTER 472.027

RICARDO, P.S.M.
FLORIDA LICENSE NO-6283.
FOR THE DTPW-TRANSPORTATION

I HEREBY CERTIFY

Date Scals 06/07/2021 1"=20"

SURVEY:

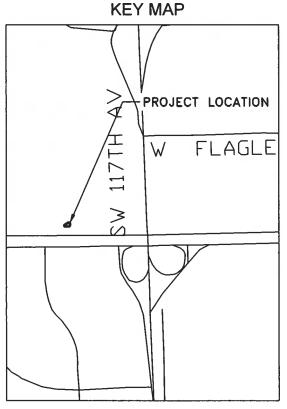
BOUNDARY

TOPOGRAPHIC

RICARDO, P.S.M.
ORIDA LICENSE NO-6283.
THE DTPW-TRANSPORTATION

SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR & MAPPER





NOT TO SCALE

NOTE
ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON
THE NORTH GEODETIC VERTICAL DATUM OF 1929 (NGVD
1929). BASED ON THE SURVEY PREPARED BY MIAMI-DADE
COUNTY PUBLIC WORKS TO CONVERT NGVD 1929
ELEVATIONS TO NAVD 1988 FOR THE PROPERTY, 1.558 MUST
BE SUBTRACTED TO THE NAVD 1988 ELEVATIONS.

Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT

GRAPHIC SCALE SCALE: 1" = 40'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

SHEET 3 OF 16

GENERAL ADA SLOPE NOTES

- THE CONTRACTOR SHALL ENSURE THAT ALL ADA CRITERIA IS MET FOR THE CONSTRUCTION OF THE SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO SIDEWALKS, RAMPS AND ADA PARKING STALLS).
- ALL ADA PARKING STALLS SHALL NOT EXCEED 2% IN AN DIRECTION.
- SIDEWALKS SHALL NOT EXCEED 5% IN THE LONGITUDINAL DIRECTION AND CROSS-SECTIONAL SLOPES SHALL NEVER EXCEED 2%, UNLESS CLEARLY
- FOR ANY REASON THE CONTRACTOR FINDS ANY GRADING DISCREPANCIES THAT WOULD RESULT IN NO BEING ABLE TO MEET ADA CRITERIA, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ADVISE THE ENGINEER AT ONCE AND PROVIDE ADEQUATE TIME TO DETERMINE PROPER COURSE OF ACTION. IF FOR ANY REASON IT IS DEEMED NECESSARY FOR AS-BUILT INFORMATION TO BE MADE AVAILABLE TO THE ENGINEER IN ORDER TO MAKE THE NECESSARY DECISIONS AND/OR PROVIDE DIRECTION, THIS INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR.



Pompano Beach, Florida 33060-6643 (954) 788-3400

Florida Engineering Business License: CA7928 Florida Surveyor and Mapper Business License: LB6860

ENGINEER OF RECORD: This item has been digitally signed and sealed by Thomas F. Donahue, P.E. on the date below using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature or signed on any electronic copies. 2023.04.27 11:43:29-04'00'

THOMAS F. DONAHUE, P.E. FLORIDA REGISTRATION P.E. No. 60529 KEITH CIVIL ENGINEER

REVISIONS

Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT

VC/MO/JN SEPT. 2022

MIAMI-DADE

DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS

CIVIL PLAN

C-101

IT IS NOT THE INTENT OF THESE PLANS AND SPECIFICATIONS TO SHOW EVERY AND ALL DETAILS OF CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION IN PROPER WORKING ORDER.

ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE FLORIDA BUILDING CODE (2020), NATIONAL ELECTRICAL CODE (NEC 2017) AND THE LATEST STATE AND OTHER LOCAL CODES THAT APPLY.

THE CONTRACTOR SHALL TAKE OUT PERMITS, PROCURE CERTIFICATES AND PAY ALL FEES CONNECTED WITH HIS WORK. PERMIT FEES WILL BE REIMBURSED WITH A DEDICATED ALLOWANCE.

BIDDERS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS SURROUNDING THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE BIDDERS TO VISIT THE SITE OF WORK AND ACQUAINT THEMSELVES WITH ALL AVAILABLE INFORMATION REGARDING THE EXISTING FACILITIES. THEIR PROPOSALS A SUM SUFFICIENT TO COVER SAME WILL NOT ENTITLE THEM TO AN EXTRA.

THE CONTRACTOR IS REFERRED TO THE ARCHITECTURAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE CONTRACT DOCUMENTS.

DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS OF ALL ELECTRICAL ITEMS. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED (UON).

CONTRACTOR SHALL SUBMIT REQUESTS FOR SUBSTITUTION IN WRITING TO THE ENGINEER, 10 WORKING DAYS PRIOR TO BIDDING DATE.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL EQUIPMENT AND MATERIALS. SUBMIT A MINIMUM OF FOUR SETS TO THE A/E.

GROUNDING SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (ARTICLE 250) AND REQUIREMENTS OF THE INSPECTING AUTHORITY. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE WITH UL APPROVED ACCESSIBLE GROUND CLAMPS, UNLESS OTHERWISE NOTED.

UPON COMPLETION OF WORK, THIS CONTRACTOR SHALL REMOVE ALL RUBBISH CAUSED BY HIS WORK AND SHALL THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT.

ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

ALL ITEMS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE CONTROL OF ELECTRICAL CIRCUITS AND APPARATUS SHALL BE IDENTIFIED.

14. ALL POWER AND LIGHTING CIRCUIT WIRING SHALL BE COLOR CODED AS FOLLOWS:

PHASE "A" - BLACK PHASE "B" - RED PHASE "C" - BLUE NEUTRAL - WHITE

15. ALL CONDUCTORS SHALL BE COPPER, 600V. #10 AND SMALLER, SOLID TYPE THWN/THHN; #8 AND LARGER, STRANDED TYPE THWN/THHN.

16. ALL CONDUCTORS FOR POWER LIMITED CABLES SHALL COMPLY WITH ARTICLES 725 & 760 OF N.E.C. LATEST EDITION.

NOMINAL MOUNTING HEIGHT OF DEVICES IN EXPOSED CONCRETE BLOCK, TILE OR BRICK WALLS SHALL ALL OCCUR WITHIN A STRUCTURAL COURSE. A MIN. AMOUNT OF BLOCK, TILE OR BRICK WALLS SHALL BE CUT.

ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE INDUSTRIAL GRADE, HEAVY-DUTY, AND U.L. LISTED UNLESS SPECIFIED OTHERWISE. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED. FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS, FOR THE TYPE OF EQUIPMENT AND THE INTENDED USE, OF THE FOLLOWING. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ILLUMINATING ENGINEERS SOCIETY (IES)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NOTE: THESE STANDARDS ARE SUBORDINATE TO STANDARDS SET BY U.L. AND LOCAL CODES. WIRING DEVICES SHALL BE SPECIFICATION GRADE. MINIMUM SIZE OF OUTLET BOXES SHALL BE 4" SQ. TRADE

OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURE FOR OTHER CLASSIFIED AREAS.

ALL ELECTRICAL CONDUCTORS MUST BE IN CONDUIT. ALL CONDUITS SHALL BE INTERMEDIATE (IMC)
OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT: (A) POLY VINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED THAT ELBOWS AND RISERS ARE RGS; (B) ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILINGS OF FINISHED AREAS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, OR CORROSIVE CONDITIONS; (C) LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED IN WET OR DAMP LOCATIONS; (D) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS. ALL CONDUITS IN HAZARDOUS LOCATIONS SHALL MEET THE REQUIREMENTS

OF NEC CHAPTER 5. THE USE OF ENT CONDUIT IS PROHIBITED.

APPLY 2 COATS OF BITUMASTIC COATING TO ALL METALLIC CONDUITS INSTALLED UNDERGROUND.

NO CONDUITS TO BE RUN IN DUCT WORK. A POLYESTER PULL CORD SHALL BE INSTALLED IN ALL EMPTY CONDUITS.

SIZE ALL WIREWAYS ACCORDING TO N.E.C. ARTICLE 378-22.

24. ALL RATED WALL/FLOOR PENETRATIONS ARE TO BE SEALED WITH A FIRE RATED SEALER, PER ASTM E814.

25. ANY VARIATION FROM THE PLANS ARE TO BE PREVIOUSLY APPROVED BY THE ENGINEER IN WRITING.

ELECTRICAL SYMBOL LEGEND

CEILING LIGHT FIXTURE-UPPER CASE LETTER DESIGNATES FIXTURE TYPE, LOWER CASE LETTER Og DESIGNATES SWITCHING.

FLUORESCENT LIGHT FIXTURE SEE FIXTURE SCHEDULE EMERGENCY LIGHT FIXTURE CONNECTED TO EMERGENCY LIGHTING CIRCUIT.

DUAL HEAD EMERGENCY STAND-BY LIGHT, WITH BATTERY PACK, WALL MOUNTED. MT. UP 9'0-" A.F.F. TO Q OF OUTLET BOX.

SINGLE POLE TOGGLE SWITCH, 20 AMP, 120/277V..SPECIFICATION GRADE. LETTER DENOTES LIGHTS ON SWITCH "A". MOUNT AT 48" A.F.F. TO & OF OUTLET BOX UNLESS NOTED.

DUPLEX RECEPTACLE; 20 A.,120 V.,GROUNDING TYPE. MOUNTED 18" A.F.F. TO $\,$ Q $\,$ OF OUTLET BOX. (EXCEPT AS NOTED). HUBBELL 52621 U.O.N.

炒 DUPLEX RECEPTACLE; 20 A.,120 V.,GROUNDING TYPE. VERIFY MOUNTING HEIGHT. HUBBELL 52621 U.O.N.

DUPLEX GFI RECEPTACLE MOUNTED HORIZONTALLY: 20 A.120 V.GROUNDING TYPE. MOUNTED UP AS NOTED ON PLANS. EXCEPT IN RESTROOMS NEXT TO SINKS WHERE IT SHALL BE MOUNTED AT 42" A.F.F. TO 🞉 OF DUTI FT

TELEPHONE/DATA OUTLET 4-11/16" X 4-11/16" 2-1/8" WITH BUSHED HOLE COVER PLATE-NOUNTED 18" A.F.F. TO C OF OUTLET(EXCEPT AS NOTED) PROVIDED 3/4" E.C. FROM EACH OUTLET TO PHONE (LOCAL) PULL BOX IN CL'G SPACE (EXCEPT AS NOTED.) TELECOMMUNICATIONS ROOM.

SAFETY SWITCH - HEAVY DUTY NEMA CLASS "A" IN NEMA 1 ENCLOSURE, OUTDOOR TYPE NEMA 3R.

3 30 DESIGNATES SWITCH RATING, "3" DESIGNATES POLES; "20" TIME DELAY FUSE; "30"SWITCH AMPS.

1///// 120/208V., 3ø, 4W. PANEL BOARD.

EQUIPMENT JUNCTION BOX, FURNISHED WITH EQUIPMENT

WALL CEILING MOUNTED JUNCTION BOX. MINIMUM 4" X 4" X 1 1/2" WITH BLANK PLATE. യ-/യ MT. WALL BOX UP AS SHOWN ON PLAN.

WALL/CEILING MOUNTED J.BOX FOR DATA OR POWER RESPECTIVELY. MT. WALL BOX UP AS SHOWN ON PLAN.

NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.

ABBREVIATIONS

	70011		7.10	
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION
(TYP.)	TYPICAL	MIN.	MINIMUM	V.
PNL.	PANEL	(MFR) MANUF.	MANUFACTURER	AMP.
LT.	LIGHT	GFI.	GROUND FAULT INTERRUPTER	LTG.
ø	PHASE	M.C.B.	MAIN CIRCUIT BREAKER	H.P.
PVC	POLYVINYL-CHŁORIDE	F/N	FULL NEUTRAL	J.B.
RGS	RIGID GALVANIZED STEEL	SURF.	SURFACE	GRS.

SCOPE OF WORK:

SCOPE UNDER THIS PROJECT INCLUDES THE FOLLOWING

INSTALLING THREE (3) NEW WATER LEVEL SENSORS (RADAR AND ULTRASONIC). NEW SENSORS TO BE CONNECTED TO EXISTING REMOTE TERMINAL UNIT (RTU) AS PER DIAGRAM ON E-103. NEW SENSORS WILL BE INTEGRATED INTO EXISTING CONTROL SEQUENCE.

ROOMS VENTILATION IS BEING IMPROVED.

2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete Floors and Walls using TREMstop IA

F-Rating = 2 Hr

TREMCO, 3735 Green Rd Beachwood OH 44122

PROJECT NO. 20200044

Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT

SHEET 4 OF 16

T-Rating = 0 Hr Drawing not to scale

1 Pre-Rated Concrete Floors or Block Walls Min 4-1 2" thickness

2 Metallic Pipe: A) Steel Pipe - 12" diam (or smaller) Sch 10 (or heavier) steel pipe B) Iron Pipe - 12" diam (or smaller) cast or ductile iron pipe

C) Conduit - 4" diam (or smaller) EMT or 6" diam, steel conduit

D) Copper Tubing - 6" diam (or smaller) Type L (or heavier) copper tubing

E) Copper Pipe - 6" diam (or smaller) Regular (or heavier) copper pipe

3 Packing Material- Min 4-1 4" thickness of mineral wool insulation (min 4 0 pcf) firmly packed into opening as a permanent form

TREMstop IA- Min 1 4" thickness of sealant applied within annulus, flush with top surface of floor or both sides of wall assembly

UL cUL System No. CAJ 1302



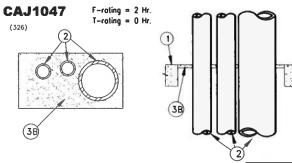
2 Hour Fire Roted Through Penetration Firestop for Multiple Metal Pipe through Concrete floors or walls using FYRE-SHIELD:

17833MGO. 3735 Green Rd. Beochwood, OH, 44122

Drawing not to scale

NOTE: Similar products of other manufacturers may I

used if accepted equal.



1) Floor or Wall assembly = 4 " thick concrete. Max. grea of

opening is 288 sq. in. (2) . Nom. 8" diam; (or smaller) Sch. 40 (or heavier) steel pipe

. Nom. 4" diam. (or smaller) copper pipe. . Max. number of pipes with opening is three (3).

3 A) Forming Moterial - (Not shown) - Nom. 1" thick polyurethane backer rod friction fitted into opening

B) Nom. 12" FYRE-SHIELD thickness installed within opening.

NOTE: For wall apply FYRE-SHIELD to both surfaces of wall.

CONCRETE FLOORS OR WALLS PENETRATION DETAILS

LOW A MORAL No 64981 STATE OF

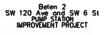
Digitally signed by Zoila Morales DN: c-US, o-ME Engineering Consultants, ou=A01410D000 00171310794480 001940F, cn=Zoila Morales Date: 2023 01 10

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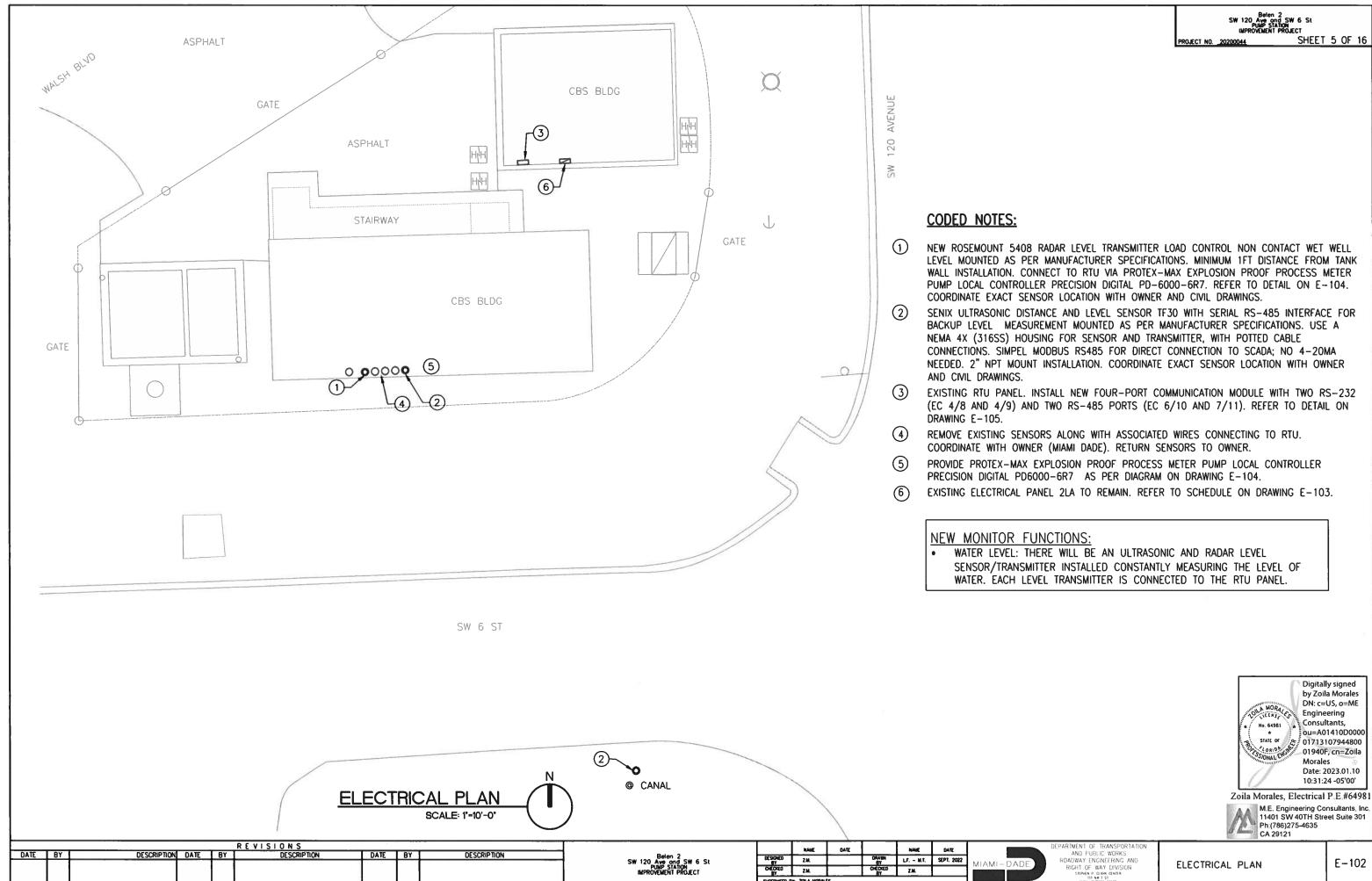
Zoıla Morales. Electrical P E #6498



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ELECTRICAL PLAN

MIAMI-DADE

RIGHT OF WAY DIVISION SIEPHEN P. CLARK CENTER

E-102

	EQUAL TO: SQUARE E					P	an	el :	2L	Δ			VOLTS:		120/240V, 3Ø, 4W	
	TYPE: NQOD NE	MA 3R				•				•			BUS:		60 Amp	
	MOUNTING SURFACE							EXIS	TING				TYPE M	IAINS:	60A, MCB	
	LOCATION: EXTERIOR												AIC:		10K	
CKT #	DESCRIPTION	POLE	C.B. TRIP (AMPS)	WIRE	CON-	VA	"A" VA LOAD	"B" VA LOAD	"C" VA LOAD	VA	CON-	WIRE	C.B. TRIP (AMPS)	POLE	DESCRIPTION	CKT #
1	GEN, ROOM LIGHTS	1	20	E	E	200	400			200	Ε	Ε	20	1	LIGHTS	2
3								1,176		1,176	E	Ε	20	1	EXHAUST FAN	4
5	BATTERY CHARGER	1	20	Ε	Ε	200			920	720	E	E	20	1	RECEPTACLES	6
7	JOCKEY WH	1	20	Ε	Ε	500	700			200	E	E	20	1	WATER LEV . RECORDER	8
9	GEN. ROOM RECEP.	1	20	Ε	Е	720		920		200	E	Е	20	1	WATER LEV. RECORDER	10
11	RTU PANEL	1	20	E,	Е	500			860	360	Ε	Е	20	1	SUM PUMP	12
13	LEAK DETECTION	1	20	Ε	E	200	200								SPACE	14
15	SPARE	1	20			200		200							SPACE	16
17	SPACE								0						SPACE	18
19	SPACE						0									20
21	SPACE							0			E	Ε	60	3	MAIN	22
23	SPACE								0							24
	•		•		TOT	ALS	1,300	2,296	1,780						•	

AMPS/PHASE:

15

(A)- EXISTING LOAD, CIRCUIT CONDUIT AND WIRES TO REMAIN

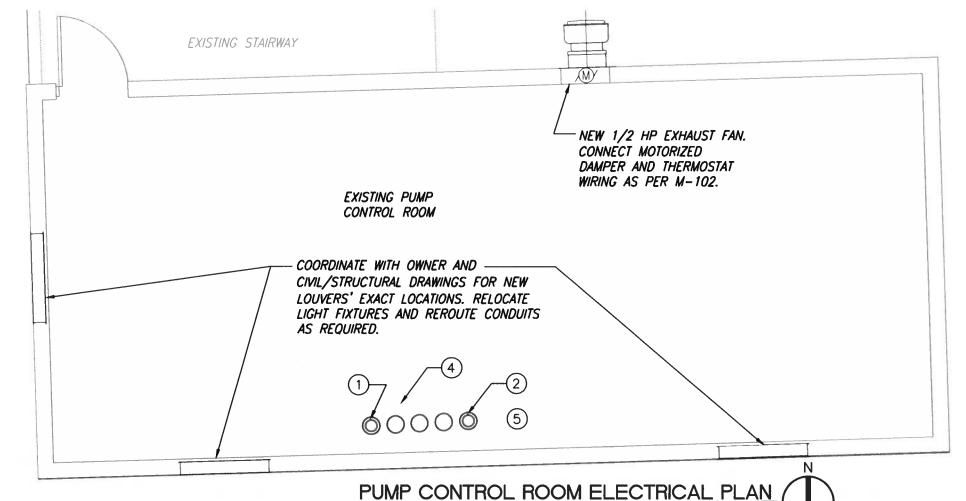
(B)- EXISTING CIRCUIT BREAKER, WIRE AND CONDUIT TO FEED NEW EXHAUST FAN

DEMAND LOAD (KVA): 3.6

E- EXISTING WIRE AND CONDUIT TO REMAIN

CONNECTED LOAD (KVA): 3.6

(C)-NEW SPARE BREAKER



Digitally signed by Zoila Morales No. 64981 Consultants, ou=A01410D0 STATE OF 00171310794480 001940F,

cn=Zoila Morales Date: 2023.01.10 10:32:02 -05'00'

DN: c=US, o=ME Engineering

ou=A01410D000

SHEET 6 OF 16

PROJECT NO. 20200044

Zoila Morales, Electrical P.E.#64981



REVISIONS DESCRIPTION DESCRIPTION DATE BY DESCRIPTION DATE BY DATE BY

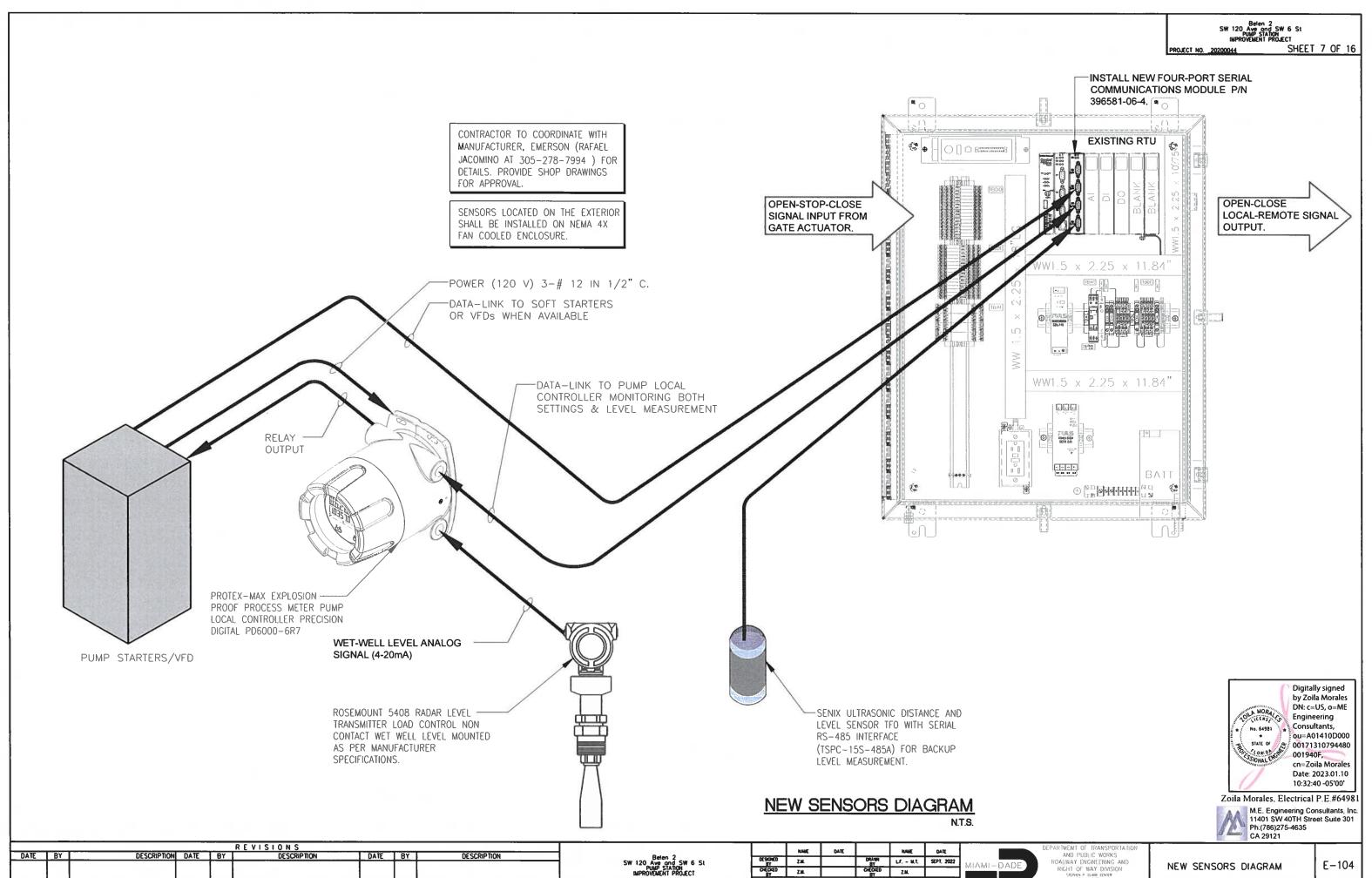
	HAME	DATE		HAVE	GATE	l
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SCALE: 1/4"=1'-0"

DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
ROADWAY ENGINEERING AND
RIGHT OF WAY DIMISION
STREEN PLANS CHER

PUMP CONTROL ROOM ELECTRICAL PLAN



DESCRED Z.M.
DECKED Z.M.
BY Z.M.

H.V.A.C. GENERAL NOTES:

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH FBC-2020. THE WORK THAT IS TO BE DONE UNDER THIS HEADING INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, PERMITS, FEES, INSPECTIONS, TEST, INSURANCE, ETC. REQUIRED FOR THE COMPLETION OF THE AIR CONDITIONING SYSTEM SHOWN ON THE DRAWINGS AND/OR LISTED BELOW.
- OBTAIN FULL INFORMATION REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT AND PROVIDE READY ACCESSIBILITY TO DAMPERS. VALVES AND OTHER APPURTENANCES INCLUDING ANY PART OF THE SYSTEM REQUIRED TO BE REACHED FOR BALANCING, TESTING, MAINTENANCE AND OPERATION.
- PLANS ARE GENERALLY DIAGRAMMATIC IN NATURE. AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND ALL PLANS RELATED TO PROJECT SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. WORK SHALL ALSO BE COORDINATED WITH STRUCTURE AND AVAILABLE SPACE TO ENSURE FIT AND PROPER CLEARANCES ARE BEING PROVIDED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT - ENGINEER IMMEDIATELY.
- 5. CUT ALL OPENINGS AND CHASES REQUIRED TO ACCOMMODATE THE WORK UNDER THIS DIVISION, AND REPAIR ALL FLOORS, WALLS, ETC. DAMAGED BY WORK. ALL WORK PERFORMED UNDER THIS HEADING SHALL CONFORM IN EVERY RESPECT TO THE FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS FOR THE BUILDING.
- 6. SUBMIT SHOP DRAWINGS OF ALL MATERIALS AND EQUIPMENT FOR APPROVAL PRIOR TO FABRICATION. DUCTWORK SHOP DRAWINGS SHALL BE SUBMITTED AT 1/4" = 1'-0" SCALE AND BE COORDINATED WITH OTHER TRADES.
- 7. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF RECORD DRAWINGS ON SITE INDICATING ANY MODIFICATIONS TO THE DESIGNED SYSTEM LAYOUT. SET SHALL CLEARLY INDICATE ACTUAL INSTALLED CONDITIONS AND LOCATION OF ALL EQUIPMENT, PIPING, DUCTWORK, CONTROL DEVICES, ETC. RECORD SET SHALL BE ACCURATELY UPDATED WEEKLY BY THE CONTRACTOR. ACCURATE "AS-BUILT" SET SHALL BE SUPPLIED TO THE ARCHITECT/ENGNIEER AT COMPLETION OF PROJECT.
- INTERRUPTIONS OF EXISTING FACILITIES AND/OR SERVICES SHALL BE KEPT TO A MINIMUM AND CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR REQUIRED WHENEVER TEMPORARY CONNECTIONS ARE NECESSARY TO MAINTAIN CONTINUITY OF SERVICES. COORDINATE ALL INTERRUPTIONS OF SERVICES WITH THE OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO SHUT DOWN.

GUARANTEES:

- ALL NEW EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL HAVE A 5 YEARS PRODUCT GUARANTEE FROM DATE OF START-UP.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN A 1 YEAR FROM DATE OF ACCEPTANCE.

F	AN SCHEDULE	
	UNIT DESIGNATION	EF-1
	AREA SERVED	PUMP ROOM
	LOCATION	WALL
	FAN TYPE	WALL EXHAUSTER
	FAN WHEEL TYPE	CENTRIFUGAL
NCE	TOTAL AIR CFM	2000
PERFORMANCE	AIR TEMPERATURE, F	90
PERF(TOTAL STATIC PRESSURE, IN. OF H20	0.2
_	ВНР	0.39
	FAN SPEED, RPM	1725
	DRIVE TYPE	DIRECT
	ESTIMATED DRIVE LOSS, %	
24	MOTOR TYPE	O.D.P
MOTOR	MOTOR SIZE, (HP)	1/2
2	ELECTRICAL SERVICE AVAILABLE, Ø/Hz/V	1/60/120
SS	COMPANION CURB (PREFAB)	YES
ACCESS	CURB HEIGHT, IN	
•	FIRESTATS	
	OPERATING WEIGHT, LBS	82
	SONES/dBA	16.3/68
	DESIGN MANUFACTURER & MODEL NUMBER	GREENHECK CUE-120-VG
	FAN OPERATION	WALL MOUNTED THERMOSTAT OPERATION SUPERVISED BY "SCADA" PANEL

Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT

SHEET 8 OF 16

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No. 70807

Digitally signed by Alexei Hidalgo DN: c=US, o=ME ENGINEERING CONSULTANTS, 01735EF9C55A000 02ADF, cn=41 Hidalgo Date: 2023,01.10 11:13:26 -05'00'

Alexei Hidalgo, Mechanical P.E.#70807



M.E. Engineering Consultants, In-11401 SW 40TH Street Suite 301

				WAL	l Louve	ER SC	CHEDU	JLE				
TAG	QTY	MANUF. & MODEL	LOCATION	MATERIAL	COLOR	SIZE (WxH)	TYPE	FRAME DEPTH	AIR FLOW (CFM)	FPM	PD (IN WG.)	GENERAL NOTES
L-1	3	GREENHECK EVH-660D	SEE Plan	EXTRUDED ALUMINUM	TO BE SELECTED BY PRIME/OWNER	43"x32"	INTAKE	6"	460	113	0.00	1.,2.

GENERAL NOTES:

- 1. PROVIDE WITH EXTENDED SILL AND BIRD SCREENS.
- 2. MIAMI DADE APPROVED (NOA#21-0526.07) HURRICANE LOUVER.

(*) EQUIVALENT MANUFACTURER: RUSKIN

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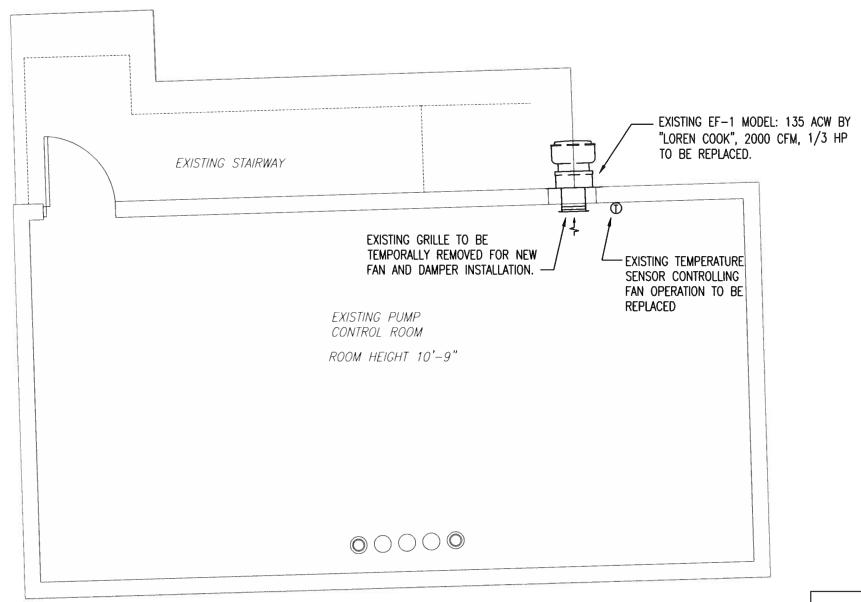
Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT

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AND PUBLIC WORKS ROADWAY ENGINEERING AND AMI-DADE

GENERAL MECHANICAL NOTES AND SCHEDULES

Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT



PUMP CONTROL ROOM DEMO MECHANICAL PLAN SCALE: 1/4"=1'-0"



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Alexei Hidalgo, Mechanical P.E.#70807



M.E. Engineering Consultants, Inc. 11401 SW 40TH Street Suite 301 Ph:(786)275-4635 CA 29121

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Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT

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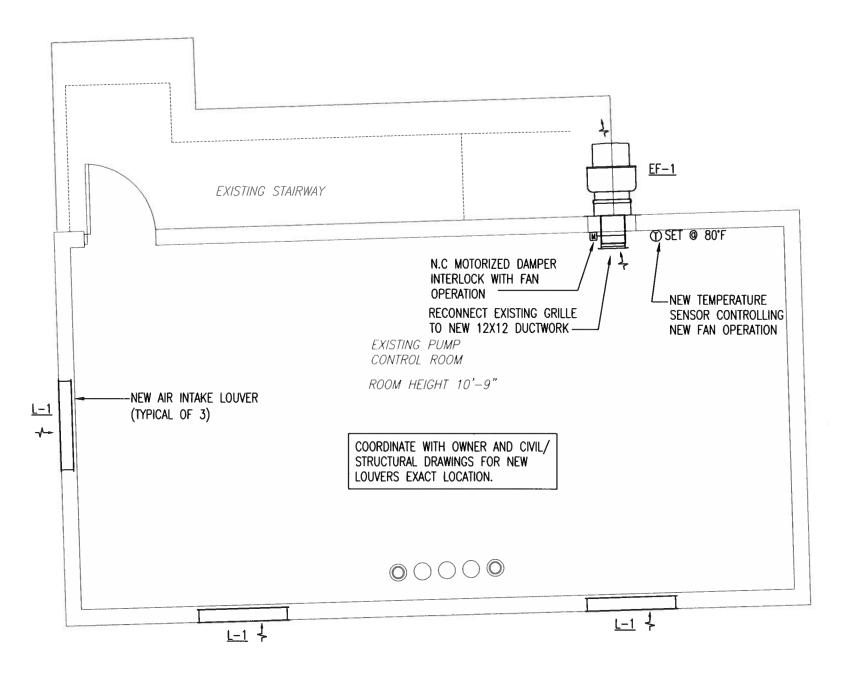
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DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION
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PUMP CONTROL ROOM DEMO MECHANICAL PLAN

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SHEET 10 OF 16



PUMP CONTROL ROOM NEW MECHANICAL PLAN SCALE: 1/4"=1'-0"

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Alexei Hidalgo, Mechanical P.E. #70807



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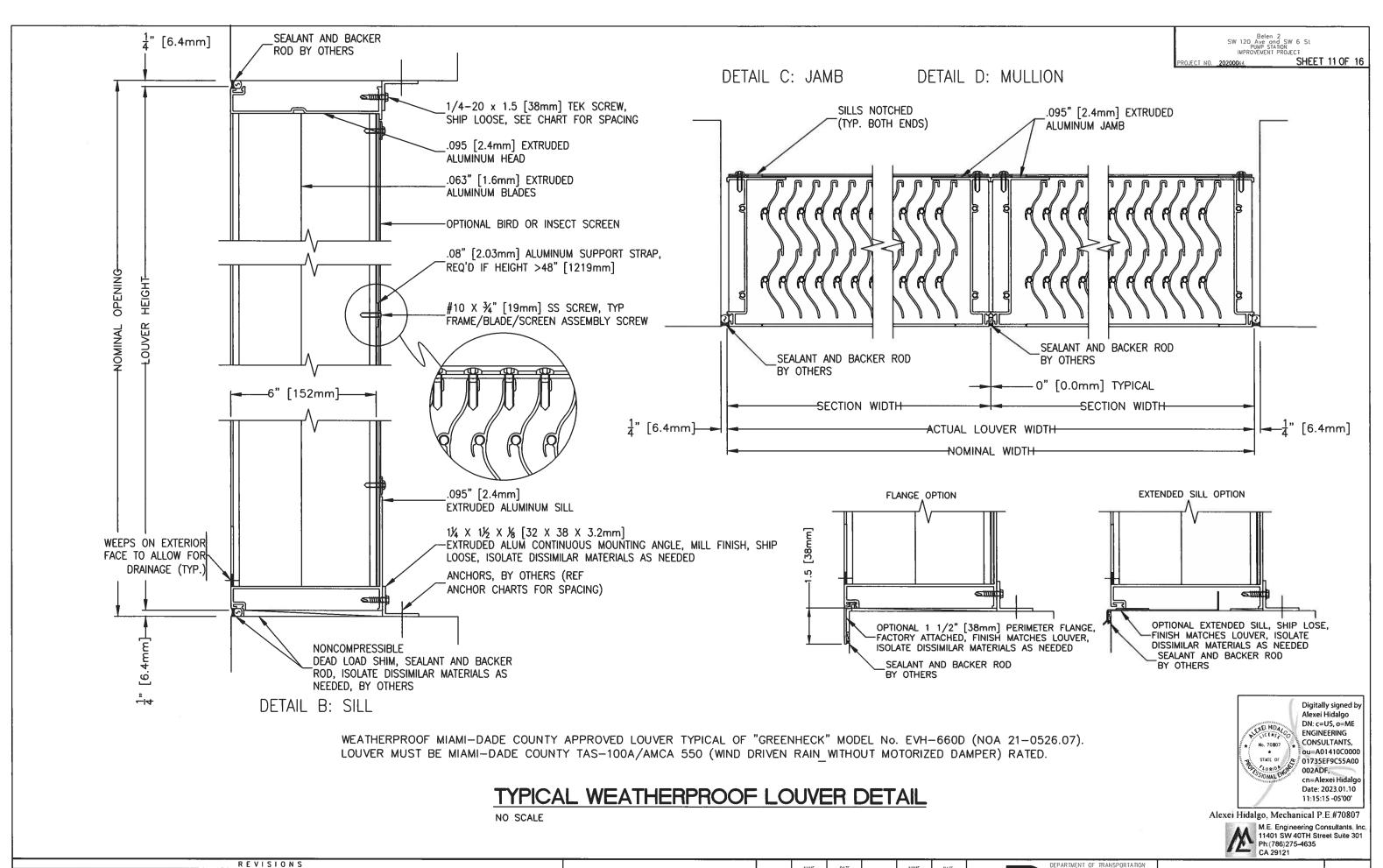
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PUMP CONTROL ROOM NEW MECHANICAL PLAN



Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT

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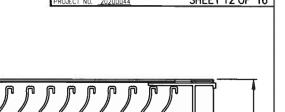
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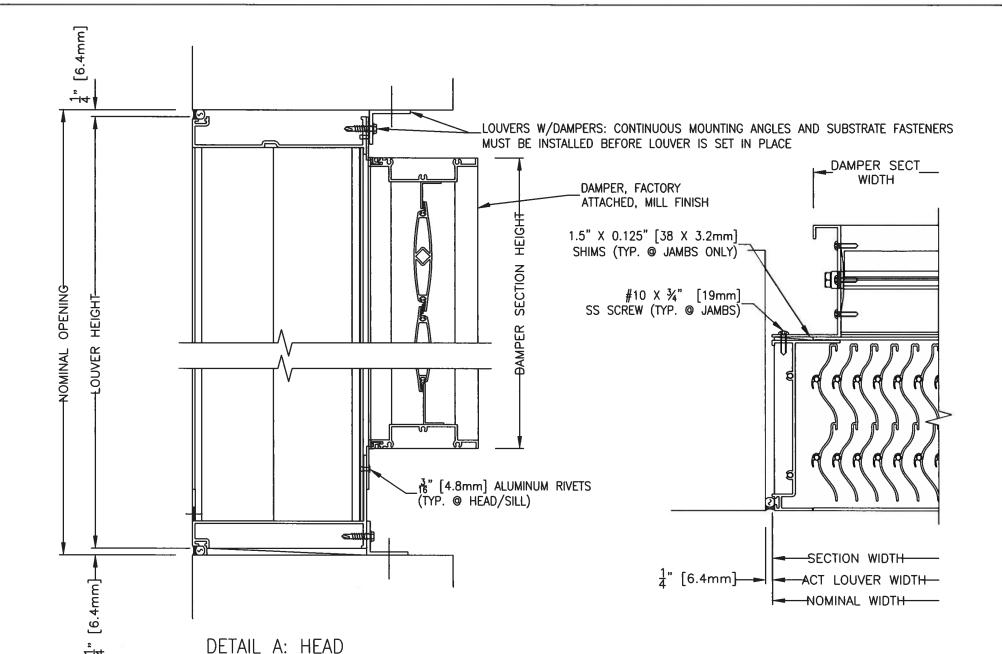
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DEPARTMENT OF TRANSPORTATION
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TYPICAL WEATHERPROOF LOUVER DETAIL

M-104



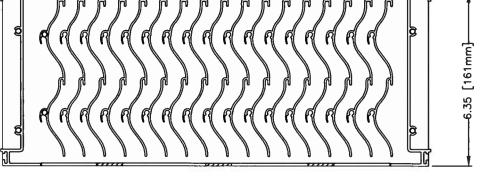


CONTINUOUS ANGLE	TO	LOUVER	FRAME	SCREW
LOUVER HEIGHT (IN.)		SP	ACING (IN.)	
>84			2	
≤84			4	

DATE BY

WOOD OR STEEL ANCHORING

		;		–.		
LAG SCREW	, SCREW, &	BOLT W/NL	IT FASTENER	TABLE		
DESCRIPTION	3/8' LAG SCREW	1/4" LAG SCREW	1/4'-20 SCREW	OR BOLT W/NUT		
SUBSTRATE	WC	OD	STEEL			
MINIMUM	G=	.42	A36 STEEL DR Fy>=36 KSI			
EDGE DISTANCE (MIN)	1-1/	2 IN.	1/2 IN.			
PENETRATION (MIN)	2-3/	4 IN.	16GA (0.06 IN.)	3/16 IN.		
LOUVER HEIGHT (IN.)	SPACING (IN.)		SPACING (IN.)		SPACIN	G (IN.)
>84 & ≤120	6	4	6	6		
>0 & ≤84	6 6		6	6		



CONCRETE OR CMU ANCHORING

1/4" TAPCON SCREW FASTENER TABLE							
DESCRIPTION		1/4" TAPCON					
SUBSTRATE	CONCRETE OR CMU (GROUT FILLED)						
MINIMUM	3.192 KSI C	ONCRETE OR 3.19	2 KSI GROUT				
EDGE DISTANCE (MIN)	1 IN. 1-1/2 IN. 2-1/2 IN						
PENETRATION (MIN	1-3/4 IN.						
LOUVER HEIGHT (IN.)	SPACING (IN.)						
>108 & ≤120	2	5	4				
>96 & ≤108	5	. 4	4				
>72 & ≤96	2	4	6				
>48 & ≤72	4	6	6				
>0 & ≤48	6	6	6				

3	3/8" POWERS	S WEDGE BO	LT FASTENE	R TABLE			
DESCRIPTION	3/8' POWERS WEDGE BOLT						
SUBSTRATE	NORM	AL VEIGHT CONC	CMU (1.5 KSI (GROUT FILLED)			
MUNINUM		2.5 KSI	6' WIDE, GRAI LIGHT/MEDIUM/I CMU CONFORMIN				
EDGE DISTANCE (MIN)	S IN	3 IN.	4-1/2 IN.	1-1/2 IN.	2 IN.		
PENETRATION (MIN)		2-1/8 IN.	2-1/	2 IN.			
LOUVER HEIGHT (IN.)	SPACING (IN.)			SPACIN	IG (IN.)		
>108 & ≤120	4 6 6			NOT ALLOWED	NOT ALLOWED		
>72 & ≤108	6	6	6	NOT ALLOWED	NOT ALLOWED		
>36 & ≤72	6	6	6	NOT ALLOWED	6		
>0 & ≤36	6	6	6	6			



Alexei Hidalgo, Mechanical P.E.#70807

M.E. Engineering Consultants, Inc 11401 SW 40TH Street Suite 301 Ph (786)275-4635

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TYPICAL WEATHERPROOF LOUVER DETAIL

NO SCALE

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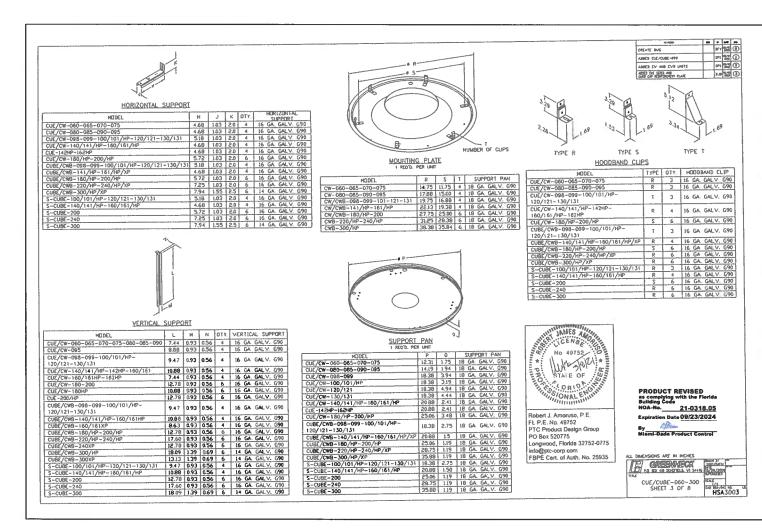
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SW 120 Ave and SW 6 St
PUMP STATION
IMPROVEMENT PROJECT

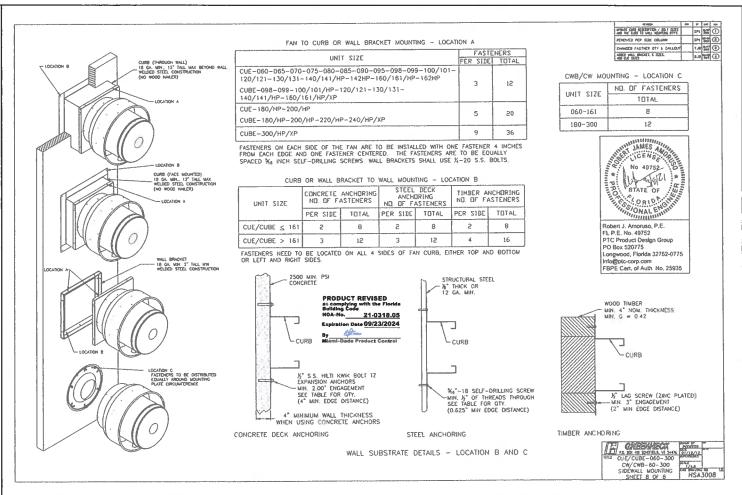
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DEPARTMENT OF TRANSPORTATION
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TYPICAL WEATHERPROOF LOUVER DETAIL

DJECT NO. 20200044 SHEET 13 OF 16





MIAMI-DADE COUNTY APPROVED FAN TYPICAL OF "GREENHECK" MODEL No. CUE-095-VG (NOA 21-0318.05).

TYPICAL WALL MOUNTED EXHAUST FAN INSTALLATION DETAIL AND WIND LOAD CALCULATIONS NO SCALE

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Alexei Hidalgo, Mechanical P.E.#70807

M.E. Engineering Consultants, Inc. 11401 SW 40TH Street Suite 301 Ph (786)275-4635 CA 29121

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Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT

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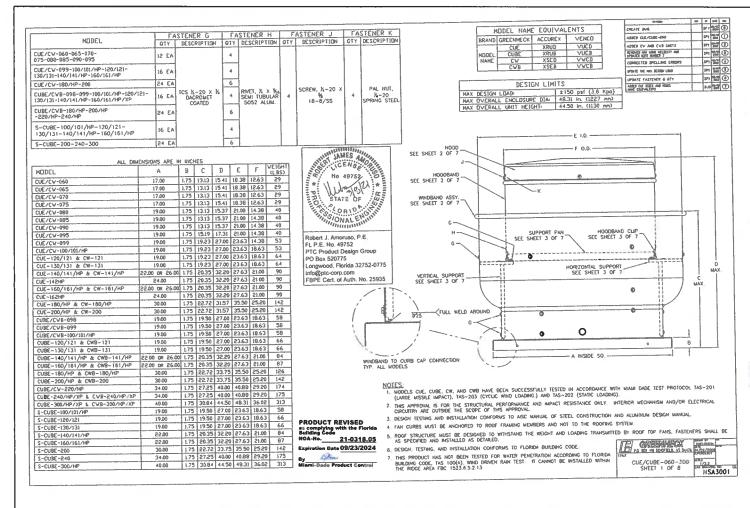
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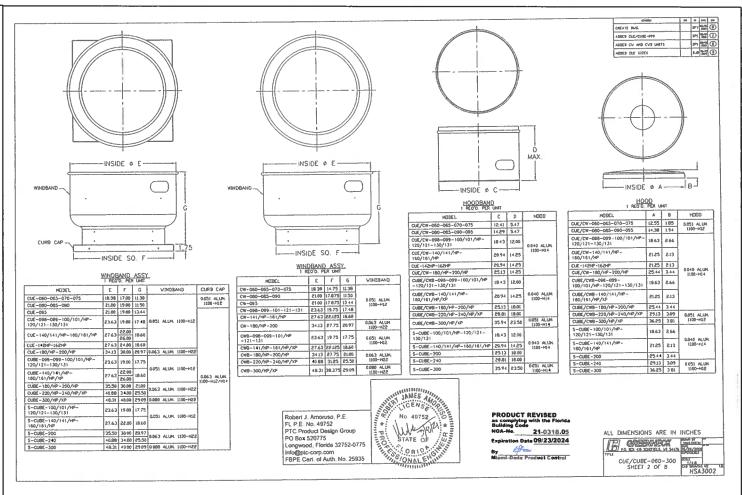
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TYPICAL WALL MOUNTED EXHAUST FAN INSTALLATION DETAIL AND WIND LOAD CALCULATIONS

M-106

JECT NO. 20200044 SHEET 14 OF 16





MIAMI-DADE COUNTY APPROVED FAN TYPICAL OF "GREENHECK" MODEL No. CUE-095-VG (NOA 21-0318.05).

TYPICAL WALL MOUNTED EXHAUST FAN INSTALLATION DETAIL AND WIND LOAD CALCULATIONS NO SCALE

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Alexei Hidalgo, Mechanical P.E #70807

M.E. Engineering Consultants, Inc 11401 SW 40TH Street Suite 301 Ph:(786)275-4635 CA 29121

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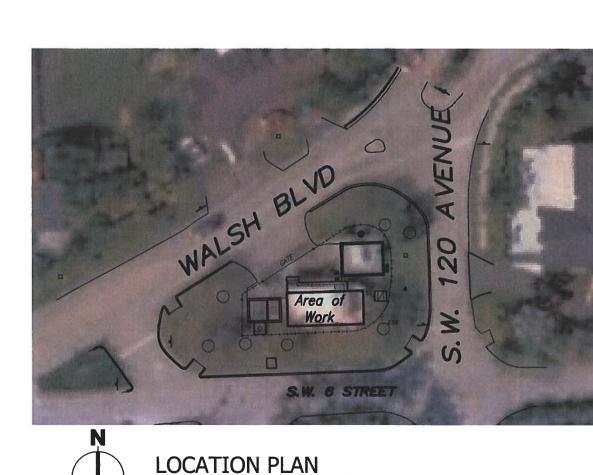
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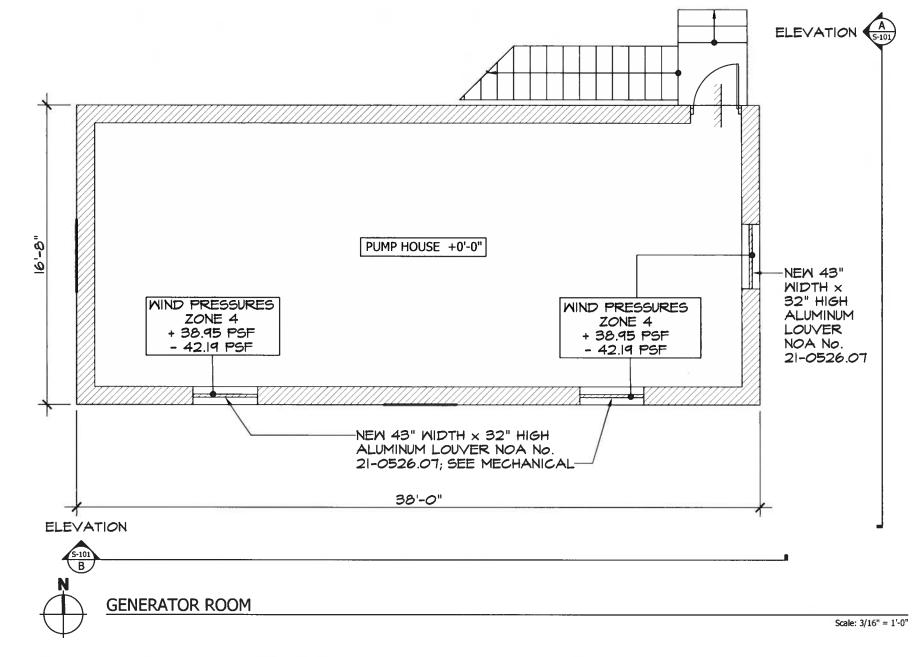
DETAIL AND

TYPICAL WALL MOUNTED EXHAUST FAN INSTALLATION DETAIL AND WIND LOAD CALCULATIONS





Scale: N.T.S.



MAXIMUM WIND PRESSURE (ASD) - LOUVER RATED AT: + 150 PSF; - 150 PSF

GENERAL NOTES:

- I. ALL WORK SHALL BE IN ACCORDANCE TO THE FLORIDA BUILDING CODE, 2020 EDITION.
- 2. WIND PRESSURE DESIGN CRITERIA IN ACCORDANCE TO ASCE 7-16
 - WIND VELOCITY = 175 MPH
 - EXPOSURE = 0
 - CATEGORY = ||

 - BUILDING HEIGHT = 15'-0"
 - ZONE 4 FOR ALL DESIGN
- 3. LOUVER FRAME ANCHORAGE TO MAIN STRUCTURE SHALL BE IN STRICT ACCORDANCE WITH THE UNIT'S NOTICE OF ACCEPTANCE - REFER TO PRODUCT CONTROL REQUIREMENTS.
- 4. LOUVER BY:

"GREENHECK FAN CORPORATION"

NOA No. 21-0526.07 PRODUCT APPROVAL TO BE PROVIDED BY GC.

Paul Ingelmo

Digitally signed 2023.01.30

12:00:24 -05'00'

by Paul Ingelmo ENGINEER OF SECOND

PAUL INGELMO P.E. LICENSE NO. P.E. 29310 - C.A 26864 INGELMO ASSOCIATES PA

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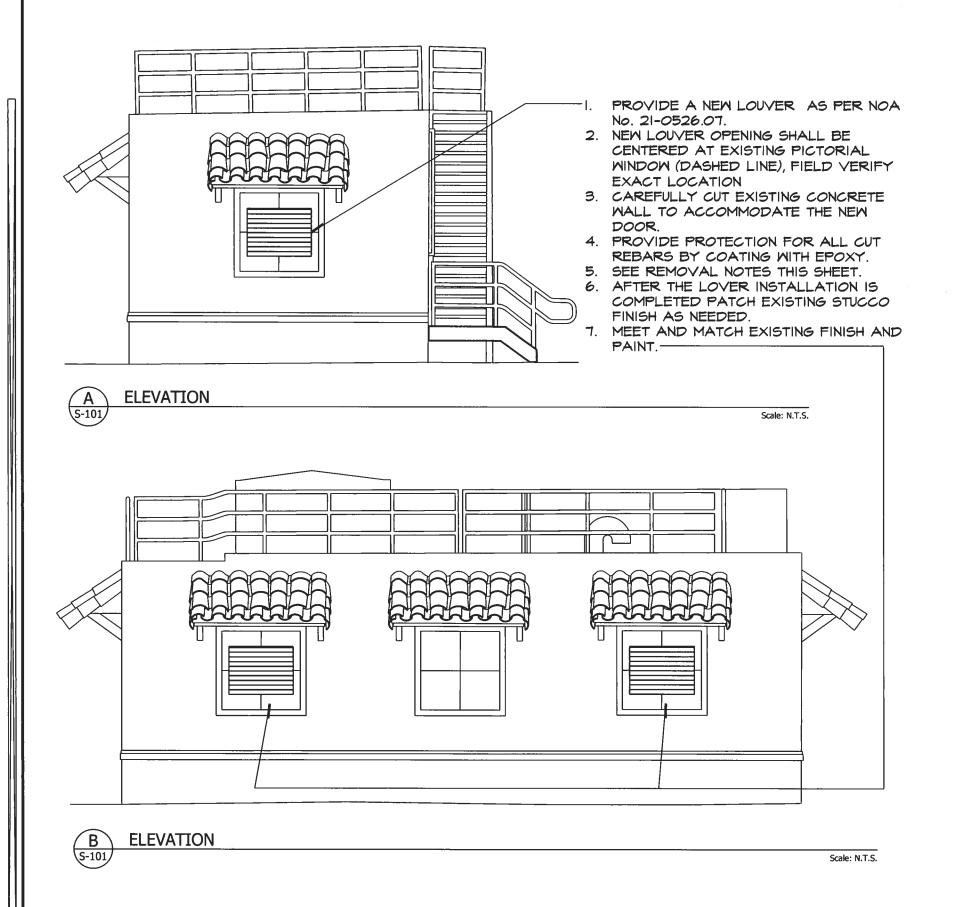
Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT
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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ROADWAY ENGINEERING AND
RIGHT OF WAY DIVISION

GENERATOR ROOM -STRUCTURAL PLAN LOCATION AND NOTES

S - 100



STRUCTURAL REMOVALS SPECIFICATIONS:

- A. ALL WORK IS TO CONFORM AND ADHERE TO THE REQUIREMENT OF THE FLORIDA BUILDING CODE 2020 EDITION AND ANY APPLICABLE LOCAL STANDARDS AND/OR ORDINANCES AS IT PERTAINS TO THE REMOVAL AND HANDLING OF DEBRIS FROM THE PROJECT SITE.
- B. ORGANIZE AND PERFORM DEMOLITION WORK TO AVOID DAMAGE TO CONSTRUCTION INTENDED TO REMAIN. THIS INCLUDES ANY EMBEDDED UTILITIES.
- C. DEMOLITION AND TRANSPORTATION OF DEBRIS SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS GOVERNING THESE OPERATIONS. ALL FEES SHALL BE PAID BY THE CONTRACTOR.
- D. AREAS NEXT TO THE REMOVAL WORK MAY BE OCCUPIED AND THEIR ACTIVITIES CANNOT BE INTERRUPTED OR DISTURBED DURING NORMAL WORKING HOURS. ALL WORKS SCHEDULE SHALL BE COORDINATED WITH THE BUILDING'S MANAGEMENT.
- E. EXISTING WORK NOT SPECIFIED FOR REMOVAL THAT IS TEMPORARILY REMOVED, DAMAGED, EXPOSED, OR IN ANY WAY DISTURBED OR ALTERED BY REMOVAL WORK SHALL BE REPAIRED. PATCHED. OR REPLACED TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
- F. ENVIRONMENTAL PROTECTION:
 - 1. CONTROL AMOUNT OF DUST RESULTING FROM CONSTRUCTION OR DEMOLITION TO PREVENT SPREAD OF DUST TO OTHER BUILDINGS AND TO AVOID CREATION OF A NUISANCE IN SURROUNDING AREAS. USE OF WATER TO CONTROL DUST WILL NOT BE ALLOWED WHEN IT WILL RESULT IN FLOODING OR OTHER OBJECTIONABLE OR HAZARDOUS CONDITIONS.
 - 2. DISPOSITION OF MATERIALS:
 - 2.1. TITLE AND RESPONSIBILITY TO MATERIALS AND EQUIPMENT TO BE REMOVED IS VESTED IN THE CONTRACTOR UPON RECEIPT OF NOTICE TO PROCEED.
 - 2.2. THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITION, LOSS, OR DAMAGE TO SUCH MATERIALS AND EQUIPMENT AFTER THE NOTICE TO PROCEED.
- G. ENSURE THAT THE REMOVAL WORK PROCEEDS IN A SAFE MANNER. CONTRACTOR SHALL PROVIDE THE EQUIPMENT NECESSARY TO SAFELY HANDLE THE REMOVAL OF THE INDICATED STRUCTURAL ELEMENTS. DURING THE REMOVAL PROCESS CONTRACTOR SHALL PROTECT ALL OTHER ITEMS THAT ARE TO REMAIN, INCLUDING OTHER STRUCTURAL MEMBERS. ANY COLLATERAL DAMAGE DURING THE REMOVAL PROCESS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

No. 29310 ENGINEER OF RECORDIATE OF PAUL INGELMO P.E. //// UNA LICENSE NO. P.E. 29310 11 C.A 26864

INGELMO ASSOCIATES PA

REVISIONS DESCRIPTION DATE BY

Belen 2 SW 120 Ave and SW 6 St PUMP STATION IMPROVEMENT PROJECT

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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION

ELEVATIONS AND NOTES

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