A. PROVIDE ALL LUMINAIRES WITH APPROPRIATE MOUNTING HARDWARE.

B. ALL EMERGENCY LUMINAIRES SHALL HAVE AN UNSWITCHED HOT WIRE C. EXIT SIGNS SHALL BE WALL MOUNTED 1'-0" ABOVE DOOR. D. SEE LUMINAIRE SCHEDULE OR ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS.

DESCRIPTION

A LED RECESSED TROFFER

AE LED RECESSED TROFFER

B1 | HIGH BAY LED

B1E HIGH BAY LED

B2E HIGH BAY LE

B2 HIGH BAY LED

01 4' LED STRIPLIGH

D2 4' LED STRIPLIGHT

E 2' LED STRIPLIGHT

EE 2' LED STRIPLIGHT

POLE MOUNTED LIGH

S3 POLE MOUNTED FLOOD LIGH

S4 POLE MOUNTED FLOOD LIGHT

S2 POLE MOUNTED LIGHT

S5 POLE MOUNTED LIGHT

W1 WALL MOUNTED LED

W2 WALL MOUNTED LED

W4 EXIST. WALL PACK

X1 RACK MOUNTED EXIT

X2 WALL MOUNTED EXIT LE

D2E 4' LED STRIPLIGHT

F CANOPY LED

R FLOOD LIGHT

E. EXTERIOR LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/ASTRONOMICAL TIME CLOCK AND CONTACTOR. F. INSTALL POLE MOUNTED SITE LIGHTS A MINIMUM OF 4'-0" INSET FROM CURB. POLE SHALL BE RATED FOR 110MPH WITH THE EPA OF THE LUMINAIRE. POLE COLOR SHALL MATCH LUMINAIRE HEAD COLOR. SEE DETAIL.

MANUFACTURER

LITHONIA

LITHONIA

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L1N L24 3500LM FST MVOLT 40K 80CRI WH LBOZU

SX2 LED P5 50K 70CRI T5W 480V RPA PER5 DWHXD

SX2 LED P4 50K 70CRI T2M 480V RPA PER5 DWHXD

SXF2 LED P4 50K 70CRI FL 480V THK DWHXD

SXF2 LED P4 50K 70CRI FL 480V THK FV DWHXD

DSXW2 LED 30C 700 50K TFTM MVOLT PE DWHXD

DSXW1 LED 20C 700 50K TFTM MVOLT PE DWHXD

DSX2 LED P4 50K 70CRI T4M 480V RPA PER5 DWHXD

CNY LED P1 50K MVOLT WH

V-S-W-1-R-120/277-ELN-SD-CW

LQM-S-W-3-R-MVOLT-ELN-SD

SXF1 LED P1 50K WFL 120 THK PE

LUMINAIRE SCHEDULE SCHEDULE 1. PROVIDE (1) IR REMOTE SKU #90376263 TO MODIFY DEFAULT SETTINGS. ONLY ONE

REMOTE IS REQUIRED TO CONTROL ALL FIXTURES. 2. SUSPEND LEVEL WITH BOTTOM CHORD OF JOIST, BRACE TO PREVENT SWAYING. 3. PROVIDE RBA38-DWHXD MOUNTING ARMS FOR LIGHT POLES WITH 3 HEADS. 4. PROVIDE RBA49-DWHXD MOUNTING ARMS FOR LIGHT POLES WITH 4 HEADS. 5. SECURE TO PIPE RACK. REFER TO DETAIL SHEET FOR REQUIREMENTS. 6. FIXTURE TO BE INSTALLED ON EXISTING POLE IN SOME CASES. VERIFY MOUNTING HARDWARE REQUIREMENTS PRIOR TO ORDERING. 7. MOUNT TO UNDERSIDE OF CANOPY.

INPUT DATA LAMP INFORMATION LUMENS/CCT/CR MODEL VOLTAGE LOAD VA NOTES GTL 4 30L EZ1 LP850 277 V 23 VA N/A 3161/5000/70 GTL 4 30L EZ1 LP850 E10WLCP 23 VA N/A 3161/5000/70 ABR2 4 36 H 57 5G 2Q 23 K Q W 213 VA N/A 36100/5000/80 ABR2 4 36 H 57 5G 2Q 23 K Q W 277 V 213 VA N/A 36100/5000/80 ABR2 4 36 H 57 1G 2Q 23 K Q W 213 VA N/A 36100/5000/80 BR2 4 36 H 57 1G 2Q 23 K Q W 213 VA N/A 36100/5000/80 52 VA N/A 7035/5000/80 L1N L48 7000LM FST MVOLT 50K 80CRI WH LBOZU 52 VA N/A 7035/5000/80 ZL1N L48 7000LM FST MVOLT 50K 80CRI WH LBOZU 52 VA N/A 7035/5000/80 ZL1N L48 7000LM FST MVOLT 50K 80CRI WH LBOZU L1N L24 3500LM FST MVOLT 40K 80CRI WH LBOZU 277 V 30 VA N/A 3500/5000/80

277 V

277 V 30 VA N/A 3500/5000/80

277 V 35 VA N/A 4500/5000/70

40 VA N/A

5 VA

21 VA N/A 3000/5000/70

270 VA N/A 39640/5000/70

270 VA N/A 33915/5000/70

145 VA N/A 17587/5000/70

145 VA N/A 17587/5000/70

270 VA N/A 33098/5000/70

71 VA N/A 8134/5000/70

46 VA N/A 5589/5000/70

N/A LED RED INCLUDE

1 VA N/A LED RED INCLUDED

ELECTRICAL DEMO NOTES

FACILITIES

. VERIFY CIRCUITING ARRANGEMENTS ARE AS SHOWN ON DRAWINGS OR AS DETERMINED IN P. VERIFY THAT WIRING AND EQUIPMENT TO BE ABANDONED SERVE ONLY ABANDONED

DISCREPANCIES TO ENGINEER BEFORE DISTURBING EXISTING INSTALLATION. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO PREPARING HIS BID IN ORDER TO FAMILIARIZE HIMSELF WITH CONDITIONS AS THEY EXIST. HE SHALL STUDY ALL AVAILABLE BUILDING PLANS, ARCHITECTURAL AND MECHANICAL DRAWINGS WHICH MAY BE AVAILABLE TO VIEW AT THE FACILITY. TO SATISFY HIMSELF AS TO THE EXTENT OF ALL CONTINGENCIES AND SHALL INCLUDE THE COST OF SAME IN HIS BID. BEGINNING OF DEMOLITION SHALL MEAN CONTRACTOR ACCEPTS EXISTING CONDITIONS.

B. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION. REPORT

DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR 6. COORDINATE ANY UTILITY SERVICE OUTAGES WITH THE OWNER AND THE UTILITY COMPANY. PROVIDE 72 HOURS ADVANCED NOTICE MINIMUM. THERE SHALL NOT BE ANY INTERRUPTION TO SERVICES TO THE EXISTING FACILITY WITHOUT PRIOR SCHEDULING OF SUCH OUTAGES WITH THE OWNER. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR

CIRCUITS, USE ONLY PERSONNEL EXPERIENCED IN SUCH OPERATIONS AND USE THE PROPER PPF REQUIRED ". PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS AND USE THE PROPER PPE

B. EXISTING ELECTRICAL SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM, MINIMIZE OUTAGE DURATION, MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED, DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS, NOTIFY OWNER AND LOCAL FIRE SERVICE AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. PROVIDE A 24 HOUR MANNED WATCH IN ANY AREA WHERE THE FIRE ALARM SYSTEM IS DISABLED. 0. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW

1. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY. 2. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE

ACCESSIBLE CEILING FINISHES. CUT CONCEALED CONDUIT FLUSH WITH WALLS AND FLOORS, CAP, AND PATCH SURFACES. 3. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS AND BOXES WHICH REMAIN AS SPLICING POINTS ARE NOT REMOVED. 4. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT.

15. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED. 16. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE ALL BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.

7. ALL SALVAGEABLE MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER. MOVE TO AND STORE AT A LOCATION ON SITE AS DIRECTED BY THE OWNER. IF THE OWNER CHOOSES NOT TO TAKE POSSESSION OF ALL OR SOME PORTION OF SALVAGEABLE MATERIAL, REMOVE THAT MATERIAL FROM SITE AND DISPOSE OF PROPERLY. OBTAIN A RECEIPT FOR ALL ITEMS REMOVED FROM THE SITE. 8. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.

19. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE. 20. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.

21. 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. 22. ALL EXISTING DEVICES AND FIXTURES IN THE PATH OF RENOVATION SHALL BE REMOVED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN EXISTING CIRCUITRY

TO ALL REMAINING DEVICES AND FIXTURES. FOR EACH DEVICE OR FIXTURE REMOVED AT THE END OF A CIRCUIT. CONTRACTOR SHALL REMOVE WIRING FROM LAST REMAINING DEVICE. FOR EACH DEVICE OR FIXTURE REMOVED IN THE MIDDLE OF A CIRCUIT, CONTRACTOR SHALL REMOVE WIRING FROM FIRST DEVICE OR FIXTURE. NEW WIRING AND CONDUIT, SIZED THE SAME AS EXISTING, SHALL BE PULLED BETWEEN THE TWO REMAINING DEVICES OR FIXTURES. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.

23. TO PERMIT INSTALLATION OF NEW PIPES OR DUCTS AS INDICATED ON MECHANICAL AND PLUMBING DRAWINGS, THE CONTRACTOR SHALL REMOVE AND REINSTALL OR RELOCATE ANY ELECTRICAL DEVICES OR CONDUITS NECESSARY TO FACILITATE SUCH WORK.

ELECTRICAL SHEET LIST ISSUE DATE REVISION DATE DESCRIPTION 000 Welcome Page 02/12/13 14. ELECTRICAL E0001 ELECTRICAL GENERAL NOTES, 03/06/2023 C 05/22/2023 PERMIT ISSUE SET SYMBOLS AND ABBREVIATIONS ED1001 ELECTRICAL DEMOLITION SITE PLAN 04/03/2023 B 05/22/2023 PERMIT ISSUE SET ED1101 OVERALL FIRST FLOOR DEMOLITION 03/06/2023 C 05/22/2023 PERMIT ISSUE SET IPLAN E1101 FIRST AND SECOND FLOOR 03/06/2023 C 05/22/2023 PERMIT ISSUE SET I ENVIRONMENTAL PLANS ES1001 ELECTRICAL SITE PLAN 03/06/2023 | C | 05/22/2023 | PERMIT ISSUE SET EL1111 PARTIAL FIRST FLOOR LIGHTING 03/06/2023 C 05/22/2023 PERMIT ISSUE SET IPLAN - AREA 1 EP1101 OVERALL FIRST FLOOR POWER PLAN 03/06/2023 C 05/22/2023 PERMIT ISSUE SET EP1111 PARTIAL FIRST FLOOR POWER PLAN - 03/06/2023 C 05/22/2023 PERMIT ISSUE SET FP1401 OVERALL ROOF POWER PLAN 04/03/2023 B 05/22/2023 PERMIT ISSUE SET E4120 ENLARGED FIRST FLOOR LIGHTING & 03/06/2023 C 05/22/2023 PERMIT ISSUE SET POWER PLAN – AREA 2 AND IADJACENT AREAS EP4111 ENLARGED FIRST FLOOR POWER 03/06/2023 C 05/22/2023 PERMIT ISSUE SET PLAN – AREA 1 E5001 ELECTRICAL DETAILS 04/03/2023 B 05/22/2023 PERMIT ISSUE SET E5002 ELECTRICAL DETAILS 05/22/2023 A 05/22/2023 PERMIT ISSUE SET E6100 ELECTRICAL SINGLE LINE DIAGRAM 03/06/2023 C 05/22/2023 PERMIT ISSUE SET 04/03/2023 B 05/22/2023 PERMIT ISSUE SET E6101 PANEL SCHEDULES E6102 PANEL SCHEDULES 04/03/2023 B 05/22/2023 PERMIT ISSUE SET

OTHER DISCIPLINES NOR SHALL IT BE RESPONSIBLE FOR OTHER DISCIPLINE REQUIREMENTS OR PROPERTY ASSETS NOT A PART OF THE ELECTRICAL CONTRACT 2. ALL WORK SHALL BE PER NEC 2017 AND ALL OTHER LOCAL, STATE AND NATIONALLY ENFORCED CODES. 3. REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS. 4. FAILURE TO FOLLOW THE REQUIREMENTS IN THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS WILL BE CONSIDERED INADEQUATE WORK. ALL DISCREPANCIES SHALL BE CORRECTED WITH NO EXPENSE TO STELLAR OR FACILITY OWNER. 5. COORDINATE FINAL LOCATIONS OF ALL MECHANICAL AND REFRIGERATION EQUIPMENT WITH THE APPROPRIATE TRADE.

5. PROVIDE POWER AND CONTROL CONNECTIONS AND WIRING FOR MECHANICAL EQUIPMENT INCLUDING ALL MOTORIZED DAMPERS. SEE MECHANICAL DRAWINGS FOR FURTHER DIRECTION. . SEE MECHANICAL DRAWINGS FOR DIRECTION ON CONTROL SEQUENCE WIRING. . THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE REFRIGERATION CONTROLS SYSTEM, IN GENERAL, THE REFRIGERATION CONTRACTOR WILL PROVIDE SENSORS, CONTROL PANELS. LIQUID LEVEL CONTROLLERS AND SOLENOID VALVE OPERATORS. THE ELECTRICAL CONTRACTOR WILL

INSTALL THE DEVICES AND WIRE THEM. PROVIDE FINAL CONNECTIONS OF ALL POWER AND CONTROL WIRING FOR ALL DEVICES AND EQUIPMENT FOR ALL TRADES UNLESS OTHERWISE NOTED ON THE DRAWINGS. 0. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL NAMEPLATE DATA FOR DISCREPANCIES, WHICH SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION. 1. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTUP SUPPORT TO INCLUDE COMMISSIONING OF ALL

VARIABLE SPEED DRIVES, SOFT STARTS, AND OTHER ELECTRICAL GEAR CONTRACTOR IS PROVIDING. COMMISSIONING SHALL INCLUDE CONFIGURATION OF ALL EQUIPMENT FOR THE INTENDED APPLICATION INCLUDING ENTERING MOTOR DATA AND/OR PROTECTION SETTINGS, AND SETTING UP COMMUNICATIONS PARAMETERS IN ACCORDANCE WITH ELECTRICAL/CONTROLS DRAWINGS. 2. ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH ALL THE APPROPRIATE MOUNTING HARDWARE FOR

A COMPLETE INSTALLATION 3. EQUIPMENT AND LIGHTING SHALL NOT EXCEED THE POWER REQUIREMENTS SPECIFIED IN THE EQUIPMENT AND LIGHTING SCHEDULE. LUMINAIRES MUST BE CENTERED IN AISLEWAYS BETWEEN RACKS. EXCEPTIONS NECESSARY TO COORDINATE WITH FIRE SPRINKLER PIPING WILL BE ALLOWED ONLY IF APPROVED BY ELECTRICAL

ENGINEER AND SUPERINTENDANT.

5. IN NO INSTANCE SHALL LIGHT FIXTURES BE LOCATED DIRECTLY OVER PIPING OR DUCTWORK. COORDINATE WITH MECHANICAL TRADES FOR LOCATION OF MAJOR PIPE RUNS AND DUCTWORK. IN AREAS WITH HEAVY PIPE AND DUCT WORK, IT IS PERMISSIBLE TO MOUNT LIGHT FIXTURES UNDERNEATH PIPING OR DUCTWORK, PROVIDED AMPLE HEAD ROOM IS AVAILABLE. 16. CEILING MOUNTED/HIGH MOUNT OCCUPANCY SENSORS IN EACH ROOM SHALL BE WIRED AS A GROUP TO CONTROL LIGHTS IN THE SPACE IN COMMON.

17. FLEXIBLE CONDUIT INSTALLED OUTDOORS OR INDOORS SHALL BE LIQUID TIGHT FLEX WITH SUITABLE 18. CONDUIT SHALL BE AS DESCRIBED IN THE SPECIFICATIONS AND CONDUIT SCHEDULE BELOW.

19. CONDUIT SHALL PASS THROUGH WALLS ONLY AT 90 DEGREES AND TO BE RUN PARALLEL OR PERPENDICULAR TO WALLS 20. ALL CONDUIT PENETRATIONS GOING THROUGH AREAS WITH A DIFFERENCE IN TEMPERATURE OF 15 DEGREES OR MORE SHALL BE SEALED PER WARM TO COLD DETAIL. 21. SEAL ALL PENETRATIONS THROUGH FIRE WALLS TO MAINTAIN THE RATING OF WALL/FLOOR. 22. VERIFY UNDERGROUND CONDUIT IS IN GOOD CONDITION BEFORE SLAB IS POURED.

23. ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE AND GASES. 24. PROVIDE NEW PLASTIC ENGRAVED NAMEPLATES ON ALL NEW PANELBOARDS (INCLUDING NAMEPLATES FOR CIRCUITS IN I-LINE PANELBOARDS), SWITCHGEAR, MOTOR CONTROL CENTERS AND

TRANSFORMERS. USE NAMES PER THE ONE-LINE DIAGRAM. COORDINATE IN FIELD FOR NAMEPLATES OF EQUIPMENT NOT SHOWN ON ONE-LINE DIAGRAM. PROVIDE NAMEPLATE INFORMATION AS INDICATED IN FIELD ON AS BUILT DRAWINGS PER DETAILS. 25. ALL GEAR AND PANELS SHALL BE FULLY RATED FOR AVAILABLE FAULT CURRENT AS INDICATED. SERIES AND OR INTEGRATED RATINGS ARE NOT ACCEPTABLE. 26. BRANCH CIRCUIT HOMERUNS SHALL BE MINIMUM #12 WIRE AND 3/4" CONDUIT. EVERY NEW CONDUIT

SHALL HAVE A GROUND WIRE (#12 MINIMUM). CONTROL WIRING SHALL USE #14 SIGNAL AND GROUND 7. ALL NEW PANELBOARDS AND EXISTING UTILIZED PANELBOARDS SHALL BE PROVIDED WITH UPDATED PANELBOARD DIRECTORIES TO REFLECT TYPE AND LOCATION OF CIRCUITS. DIRECTORIES SHALL BE

TYPED OR MACHINE GENERATED. 28. ELECTRICAL CONTRACTOR MAY NOT DE-RATE CONDUCTORS IN THE FIELD WITHOUT SPECIFIC ENGINEER'S APPROVAL 29. PROVIDE CONDUIT AND DEVICE BOXES FOR MECHANICAL EQUIPMENT THERMOSTATS. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR WIRING THERMOSTATS DEPENDING ON VOLTAGE. SEE MECHANICAL DRAWINGS FOR FURTHER DIRECTION. 30. CONDUIT FOR EXTERIOR BUILDING MOUNTED LIGHTING SHALL BE RUN INSIDE BUILDING AND POKE-THRU AT BACKSIDE OF LIGHT OR DOCK CANOPY FOR CANOPY LIGHTS.

31. DEVICES MOUNTED TO CMU WALLS SHALL BE INSTALLED FLUSH WITH WALL IN THE WELFARE SPACES. SURFACE MOUNTING IS ACCEPTABLE IN NON-WELFARE SPACES. 32. IN GENERAL CONDUCTORS SHALL BE THHN-2/THWN-2 COPPER. CONDUCTORS RUN IN 0 DEG. F. SPACES (OR BELOW) SHALL BE XHHW-2 COPPER FOR THE ENTIRE LENGTH. SERVICE ENTRANCE CONDUCTORS SHALL BE XHHW-2 COPPER. SHIELDED VFD CABLE WITH 100% BRAID AND FOIL SHIELD (EQUAL TO LAPP OLFLEX VFD) SHALL BE USED ON ALL VFD OUTPUTS TO MOTOR EXCEPT AMMONIA COMPRESSORS.

33. ALL ATTACHMENTS TO IMP WALLS SHALL USE RIVNUTS. 34. ALL WIRING DEVICES IN WAREHOUSE/INDUSTRIAL AREAS SHALL BE MOUNTED AT 42" AFF U.O.N. 35. RECEPTACLES LOCATED IN DAMP LOCATIONS AND OUTDOORS SHALL BE GFI AND LISTED AS WEATHER-RESISTANT (WR) TYPE WITH WEATHERPROOF COVER AS REQUIRED PER NEC.

36. ALL COMMUNICATION WIRING SHALL BE IN CONDUIT. CABLE TRAY, OR J-HOOKS. 37. NO CONDUIT OR CABLES SHALL BE RUN UNDER SPACES THAT HAVE UNDERFLOOR HEAT UNLESS SPECIFICALLY FOR UNDERFLOOR HEATING SYSTEM. 38. STANDARD TESTING FOR GROUNDING, INSULATION RESISTANCE, AND CONTINUITY SHALL BE

CONDUCTED AND A FORMAL REPORT WITH TEST RESULTS SHALL BE PROVIDED TO STELLAR. 39. PROVIDE 30mA EQGFCI PROTECTION FOR ALL HEAT TRACE CIRCUITS. 40. MAXIMUM VOLTAGE DROP FOR FEEDER CIRCUIT IS 2% AND BRANCH CIRCUIT IS 3%. TOTAL VOLTAGE DROP FOR CIRCUIT SHALL NOT EXCEED 5%. 1. SEISMIC AREAS ONLY: THIS PROJECT IS LOCATED IN A SEISMIC DESIGN CATEGORY "D". ELECTRICAL DEVICES SHALL BE RATED FOR AND INSTALLED PER SEISMIC DESIGN CATEGORY. PROVIDE LISTED CONNECTIONS AS REQUIRED TO MEET SEISMIC DESIGN CATEGORY.

ELECTRICAL GENERAL NOTES

THESE DOCUMENTS PERTAIN TO ELECTRICAL ONLY. THIS DESIGN SHALL NOT BE USED TO QUALIFY ⊢ STRIP LUMINAIRE

RECESSED OR PENDANT MOUNTED LUMINAIRE EMERGENCY RECESSED OR PENDANT MOUNTED LUMINAIRE RECESSED DIRECTIONAL OR WALL WASH LUMINAIRE WALL MOUNTED LUMINAIRE

EMERGENCY WALL MOUNTED LUMINAIRE

LUMINAIRE

EMERGENCY LUMINAIRE

ENCLOSED LUMINAIRE

EMERGENCY STRIP LUMINAIRE

WALL MOUNTED LUMINAIRE

EMERGENCY ENCLOSED LUMINAIRE

ELECTRICAL LEGEND

JUNCTION BOX (SIZE PER N.E.C.)

NON-FUSED DISCONNECT SWITCH

(FRAME SIZE/# POLES/ENCLOSURE)

FUSED DISCONNECT SWITCH

MOTOR STARTER PROTECTOR

── CONDUIT (RISE , DROP)

F.A.P.

(SD)

TS

BRANCH CIRCUIT HOMERUN

FIRE ALARM PANEL

FIRE ALARM HORN

SMOKE DETECTOR

HEAT DETECTOR

FIRE ALARM RELAY

■ HOA HAND/OFF/AUTO SELECTOR SWITCH

OA OFF/AUTO SELECTOR SWITCH

HA
 HAND/AUTO SELECTOR SWITCH

ABOVE FINISHED FLOOR

ATS AUTOMATIC TRANSFER SWITCH

AFG ABOVE FINISHED GRADE

ALUMINUM

CONCRETE

CONTRACTOR

DISCONNECT

EXHAUST FAN

HAND OFF AUTO

INSTANTANEOUS

CURRENT TRANSFORMER

ELECTRIC WATER COOLER

MOTOR CONTROL CENTER

MAIN DISTRIBUTION PANEL

REFRIGERATION CONTROL PANEL

RESISTANCE TEMPERATURE DETECTOR

MAIN SWITCHBOARD

NORMALLY CLOSED

THERMAL MAGNETIC

UNLESS OTHERWISE NOTED

TRANSFORMER

WEATHERPROOF

TYPICAL

NORMALLY OPEN

PANEL

FULL VOLTAGE NON REVERSING

GROUND FAULT CIRCUIT INTERRUPTER

CONTROL POWER TRANSFORMER

BATT BATTERY

CONC

CONTR

CU

DISC

FVNR

GFCI

HOA

PNL

RCP

XFMR

AC ABOVE COUNTER TOP, SEE ARCH ELEVATIONS

BOCT BOTTOM OF CABLE TRAY, MEASURED FROM FIRST FLOOR SLAB.

LIMIT SWITCH

SS SELECTOR SWITCH

DUCT SMOKE DETECTOR

FIRE ALARM PULL STATION

FIRE ALARM AUDIO/VISUAL DEVICE

TAMPER SWITCH - ELECTRICALLY SUPERVISED

FLOW SWITCH - ELECTRICALLY SUPERVISED

LOW AIR SWITCH - ELECTRICALLY SUPERVISED

PRESSURE SWITCH - ELECTRICALLY SUPERVISED

FIRE ALARM STROBE DEVICE

PANELBOARD (SEE SCHEDULE FOR CONFIGURATION)

UNDERFLOOR/UNDERGROUND CONDUIT

MOTOR - NUMBER DENOTES HORSEPOWER

SURFACE MOUNTED ADJUSTABLE LUMINAIRE TRACK MOUNTED LUMINAIRES (4 SHOWN) POLE MOUNTED AREA LIGHT (ONE LUMINAIRE SHOWN)

FLOOD LIGHT BUILDING MOUNTED WALL PACK EMERGENCY BATTERY PACK WITH TWO INTEGRAL LIGHTS

EMERGENCY REMOTE SINGLE LIGHT HEAD

WALL MOUNTED LUMINAIRE WITH ADJUSTABLE ARM

EMERGENCY REMOTE DOUBLE LIGHT HEAD

EXIT LIGHT (SINGLE, DOUBLE, WALL MOUNTED) POWER POLE (BY OTHERS)

SINGLE POLE SINGLE THROW SWITCH (SPST) DOUBLE POLE SINGLE THROW SWITCH (DPST)

THREE WAY SPST SWITCH

MOTOR RATED SWITCH (SPST UNLESS NOTED OTHERWISE) SLIDE TYPE DIMMER SWITCH (8A @ 120V-277V) LUTRON DVSTV (OR APPROVED EQUAL). USE SHIELDED BELDEN CABLE FOR 0-10V

CONNECTION AND RUN IN SEPARATE CONDUIT.

WALL MOUNTED IR OCCUPANCY DETECTOR WITH DIMMER (8A @ 120V-277V) LUTRON MS-Z101 (OR APPROVED EQUAL). SET TO MANUAL-ON, AUTO-OFF (VACANCY MODE). USE SHIELDED BELDEN CABLE FOR 0-10V CONNECTION AND RUN IN SEPARATE CONDUIT.

HIGH BAY AISLEWAY LARGE MOTION CEILING/BOX MOUNTED

HUBBELL H-MOSS MAXX ACIPE WITH AHP1500CRP-CU300HD (OR

LARGE MOTION CEILING/BOX MOUNTED OCCUPANCY DETECTOR SENSOR SWITCH CMRPDT10 (OR EQUAL) SMALL MOTION CEILING/BOX MOUNTED OCCUPANCY DETECTOR SENSOR SWITCH CMRPDT9 (OR EQUAL)

OCCUPANCY DETECTOR SENSOR SWITCH LSXR-50-HL-5M (OR EQUAL) NEMA 4X CONDUIT/BOX MOUNTED OCCUPANCY DETECTOR HUBBELL H-MOSS MAXX AHP1600WRP-HAP3-CU300HD (OR EQUAL) NEMA 4X CEILING MOUNTED OCCUPANCY DETECTOR

 DUPLEX RECEPTACLE WALL MOUNTED QUADRAPLEX RECEPTACLE WALL MOUNTED

SWITCHED RECEPTACLE. PROVIDE 277V RELAY PACK WITH SWITCHED CONTACTS FOR INTERLOCKING OF 120V RECEPTACLE IN EACH INDIVIDUAL OFFICE OR CUBICLE. ONE PLUG IN THE DUPLEX RECEPTACLE SHALL BE SWITCHED VIA THIS RELAY PACK. ENSURE YOKE STRAP IS DISCONNECTED ON RECEPTACLE. INDICATE WITH SPECIFIC DESIGNATION THAT THE INDIVIDUAL PLUG IS SWITCHED.

DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER. PROVIDE WEATHERPROOF WHILE IN-USE COVER FOR OUTDOOR MOUNTED RECEPTACLES. PROVIDE WATERTIGHT COVER FOR PROCESS/WASHDOWN MOUNTED RECEPTACLES. EQUIPMENT MOUNTED DUPLEX RECEPTACLE WITH INTEGRAL

GROUND FAULT CIRCUIT INTERRUPTER AND WEATHERPROOF FLUSH MOUNTED MULTI USE FLOOR RECEPTACLE WITH BRASS COVER. EQUIP WITH DUPLEX RECEPTACLE AND UP TO FOUR

TELE/DATA CONNECTIONS.

SPECIAL / WELDING RECEPTACLE

COMBO TELE/DATA COMMUNICATIONS OUTLET, 4 SQUARE BOX WITH 1" CONDUIT STUBBED ABOVE CEILING OR TO BAR JOISTS -#NEXT TO DEVICE INDICATES # OF CABLES -DEFAULT HEIGHT IS 18' AFF UNLESS OTHERWISE NOTED -AC = MOUNTED ABOVE COUNTER -PNL = CONDUIT TERMINATED IN EQUIPMENT PANEL -C = MOUNTED AT CEILING/BAR JOIST LEVEL -F = FLOORBOX MOUNTED -IDF-B = CABLE TERMINATES IN IDF-E -IDF-A = CABLE TERMINATES IN IDF-A -MDF = CABLE TERMINATES IN MDF ROOM

FIXED OR PTZ CAMERA AS NOTED ELECTRONIC CARD READER DC DOOR CONTACT

DOUBLE DOOR CONTACT DOOR LOCK

OH OVERHEAD DOOR CONTACT C CONTACT (DR) DOOR RELEASE

DOOR MANAGEMENT DEVICE(LOCAL ALARM DEVICE) BKP BURGLAR ALARM KEYPAD

(WS) WORK STATION MICROPHONE (PR) PRINTER SP SPEAKER MDMOTION DETECTOR GCP GATE CONTROL PANEL (KL) KEYLOCK OS OPTICAL SENSOR (HS) HORN STROBE WIRELESS READER

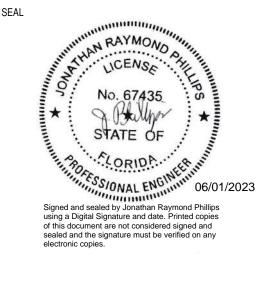
STROBE PANIC ALARM RI READER INTERFACE IC INTERCOM

JUNCTION BOX FOR DOOR JAMB OR CONDENSATE HEAT (SIZE EQUIP WITH 120VAC AUX CONTACT FOR VFD MOTOR CIRCUITS EQUIP WITH 120VAC AUX CONTACT FOR VFD MOTOR CIRCUITS (FRAME SIZE/# POLES/FUSE SIZE/ENCLOSURE) COMBINATION STARTER (VFD, SOLID STATE, FVNR AS NOTED) (STARTER TYPE/STARTER SIZE/# POLES/ENCLOSURE) PROJECT INFORMATION

> **US COLD STORAGE** LAKE CITY, FLORIDA



THE STELLAR GROUP 2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900 WWW.STFILAR.NFT FLORIDA ARCHITECTURAL LICENSE NO. AR0013370 FLORIDA ENGINEERING LICENSE NO. CA5930



CONSULTANT

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NO.	DESCRIPTION	DAT
С	PERMIT ISSUE SET	05/22/2
В	DESIGN DEVELOPMENT 2	04/03/2
Α	DESIGN DEVELOPMENT 1	03/06/2
		+
		+
		+
- 		
		+
-+		+
		+
		+
		+
\dashv		+
		\perp

PROJECT NUMBER: NOTES, SYMBOLS AND

03/06/2023

DATE ISSUED

DESIGNED BY:

REVIEWED BY:

A/FOR:

PERMIT ISSUE SET

——— LEVEL 1 DISCIPLINE DESIGNATOR LEVEL 2 DISCIPLINE DESIGNATOR (OPTIONAL) SHEET TYPE DESIGNATOR SHEET SUB-TYPE DESIGNATOR AREA DESIGNATOR * SECTOR DESIGNATOR * *APPLICABLE TO PLANS ONLY DISCIPLINE DESIGNATOR E ELECTRICAL DRAWINGS SHEET TYPE DESIGNATOR 0 GENERAL 1 PLANS 2 ELEVATIONS & PROFILES 3 SECTIONS 4 LARGE SCALE VIEWS 5 DETAILS 6 SCHEDULES AND DIAGRAMS 7 USER DEFINED 8 USER DEFINED

ELECTRICAL SHEET IDENTIFIER

9 3D REPRESENTATION TO BE USED ON FLOOR PLAN SHEETS ONLY 0 FOUNDATION 1 FIRST FLOOR/ SLAB

SHEET SUB-TYPE DESIGNATOR 2 ELEVATED FLOORS STRUCTURE & FRAMING, MEZZANINE 3 INTERSTITIAL SPACE 4 ROOF STRUCTURE / FRAMING 5 ROOF RAISED PLATFORM 6 FIRST FLOOR REFLECTED CEILING 7 ELEVATED FLOOR STRUCTURE

& FRAMING, MEZZANINE REFLECTED CEILING

8 NTERSTITIAL SPACE REFLECTED CEILING

(OPTIONAL)

WITH TELEPHONE/DATA CONTRACTOR.

TELEPHONE/DATA/WIRELESS ACCESS POINTS - THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SYSTEM OF CONDUIT, FITTINGS, AND BOXES, FROM DEVICE LOCATION TO THE ABOVE CEILING SPACE OR ABOVE JOISTS ONLY IF NO CEILING. COORDINATE SECURITY SYSTEM - THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SYSTEM OF CONDUIT, FITTINGS, AND BOXES, FROM DEVICE LOCATION TO THE ABOVE CEILING SPACE OR ABOVE JOISTS ONLY IF NO CEILING. COORDINATE WITH SECURITY CONTRACTOR.

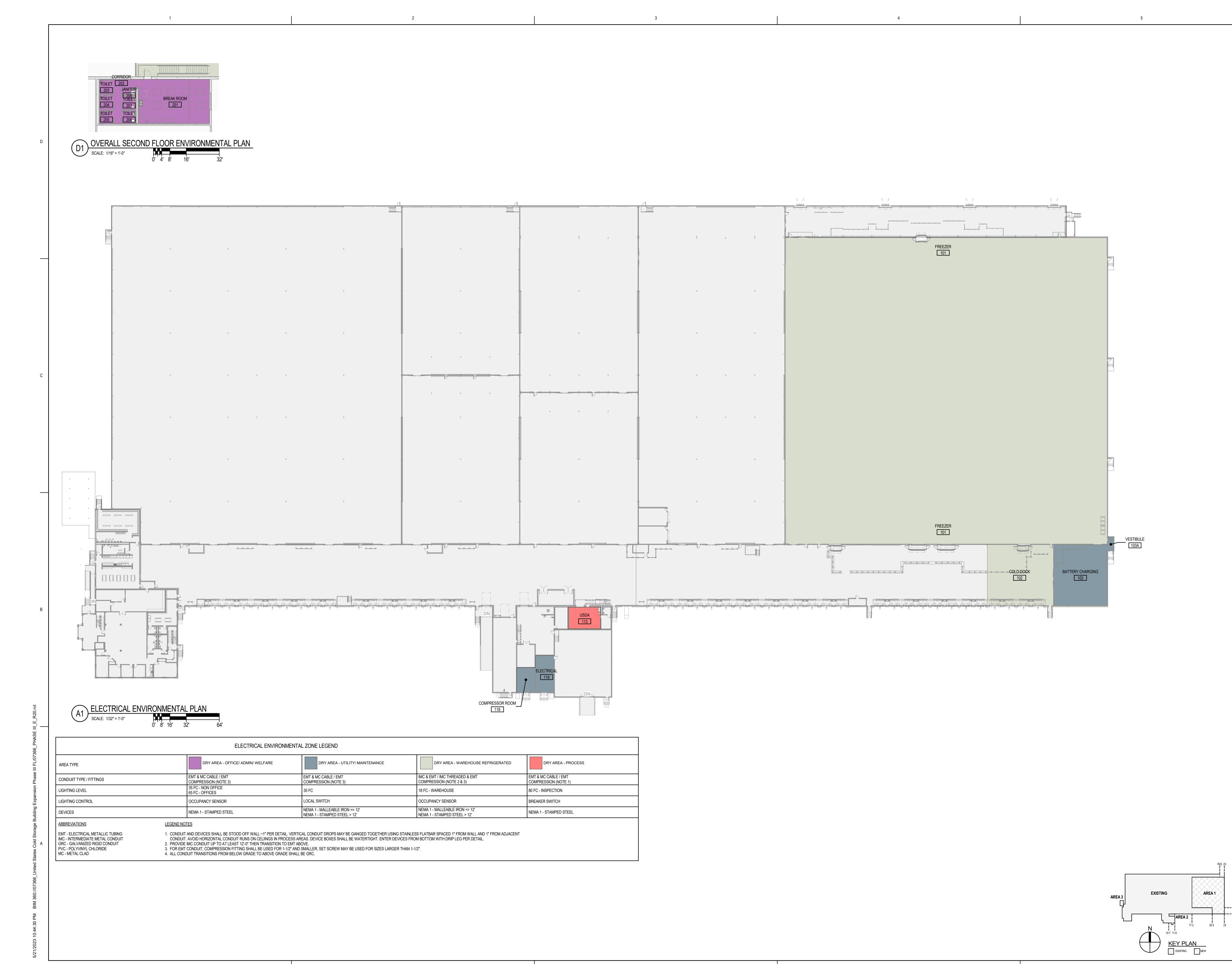
I. FIRE ALARM - THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DESIGN/BUILD, COMPLETE FIRE ALARM SYSTEM. NEW SYSTEM SHALL BE CODE COMPLIANT WITH NFPA AND LOCAL BUILDING CODES. NEW SYSTEM SHALL BE NON-PROPRIETARY, OPEN SOURCE TYPE. FULLY ADDRESSABLE WITH PULL STATIONS. SMOKE DETECTORS. HEAT DETECTORS, AND AUDIBLE/VISUAL NOTIFICATION. IF SYSTEM EXPANSION IS REQUIRED, NEW SYSTEM SHALL INTERFACE AND BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.

INCLUDED FOR THE DESIGN AND INSTALLATION OF THE SYSTEM. 5. PAGING SYSTEM - NO PAGING SYSTEM SCOPE IS INCLUDED.

POWER WIRING COLOR CODE								
WIRE FUNCTION & INSULATION COLOR								
CONDUCTOR USE	480/277V	208/120V						
PHASE A	BROWN	BLACK						
PHASE B	ORANGE	RED						
PHASE C	YELLOW	BLUE						
NEUTRAL	GRAY	WHITE						
GROUND	GREEN	GREEN						

SYSTEMS SCOPE OF WORK

BDA / ERCES - NO BDA / ERCES SYSTEM INCLUDED. ELECTRICAL CONTRACTOR SHALL PERFORM THE MINIMUM SIGNAL STRENGTH AND COVERAGE TEST PER IFC AND AHJ REQUIREMENTS. IF IT IS DETERMINED TO BE A REQUIEMENT THEN A COST ADD SHALL BE



OWNER

®

PROJECT INFORMATION

US COLD STORAGE
PHASE III EXPANSION
LAKE CITY, FLORIDA

**Stellar TAKING SOLUTIONS FURTHER

OPERATING AS: THE STELLAR GROUP 2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900 WWW.STELLAR.NET FLORIDA ARCHITECTURAL LICENSE NO. AR0013370 FLORIDA ENGINEERING LICENSE NO. CA5930



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REVISIONS

NO. DESCRIPTION DATE

C PERMIT ISSUE SET 05/22/2023

B DESIGN DEVELOPMENT 2 04/03/2023

A DESIGN DEVELOPMENT 1 03/06/2023

DATE ISSUED: 03/06/2023

DESIGNED BY: 00A

REVIEWED BY: JRP

A/EOR: JRP

FIRST AND SECOND FLOOR ENVIRONMENTAL PLANS

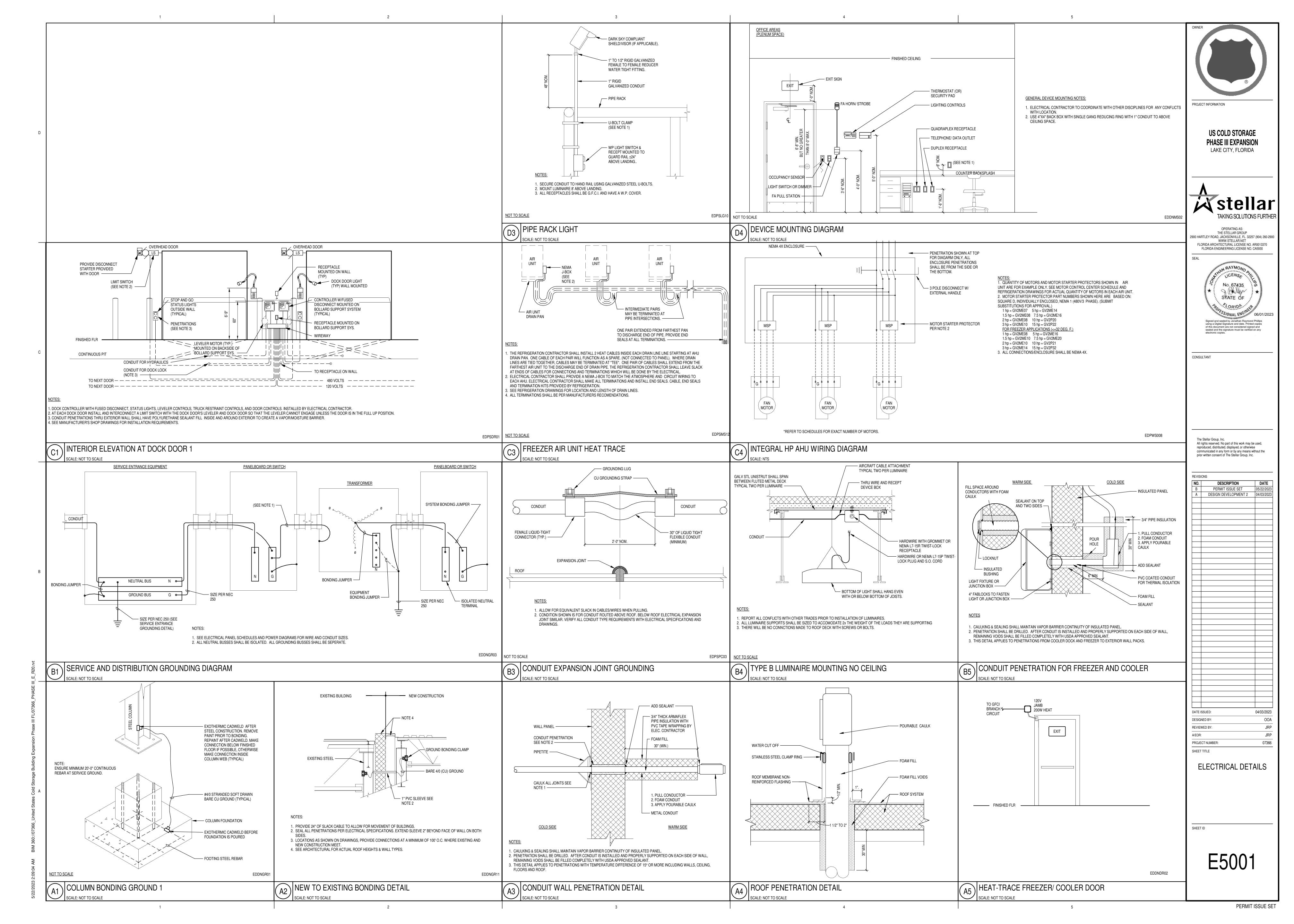
SHEET ID

PROJECT NUMBER:

PRINT IN COLOR



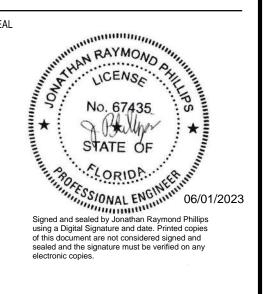
03/06/2023 07366



PROJECT INFORMATION **US COLD STORAGE**

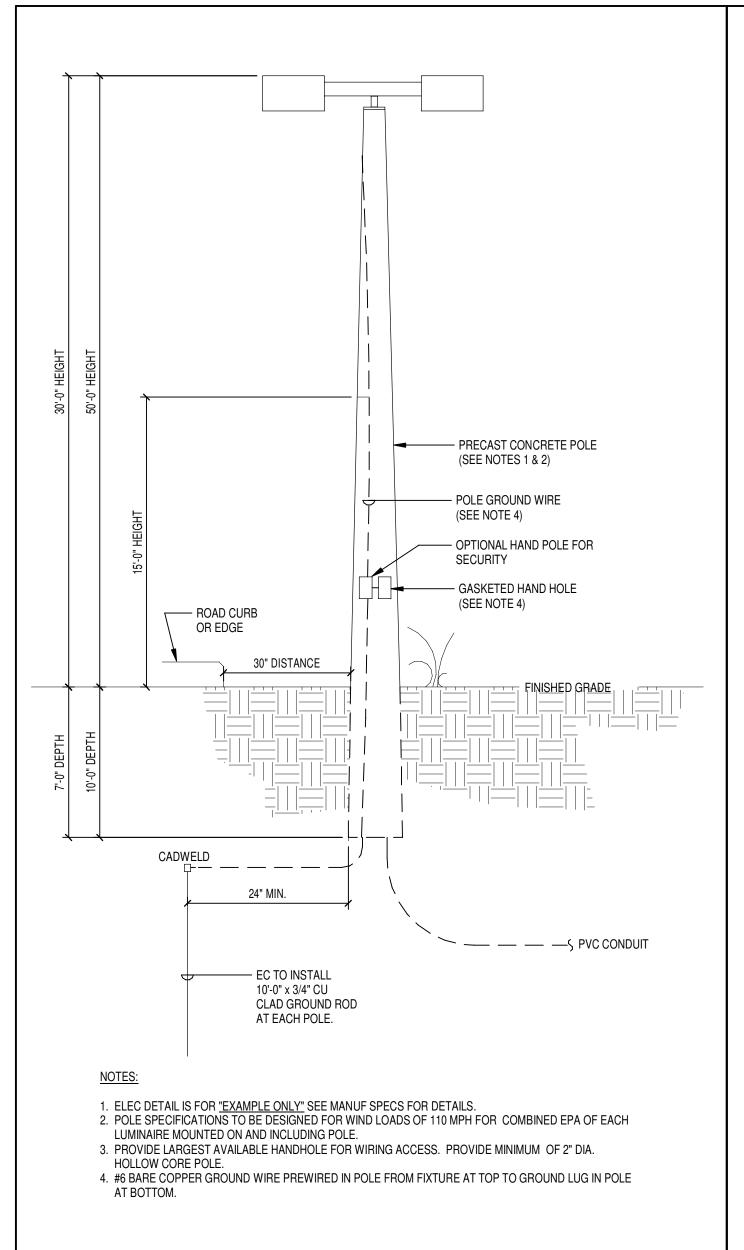
PHASE III EXPANSION LAKE CITY, FLORIDA

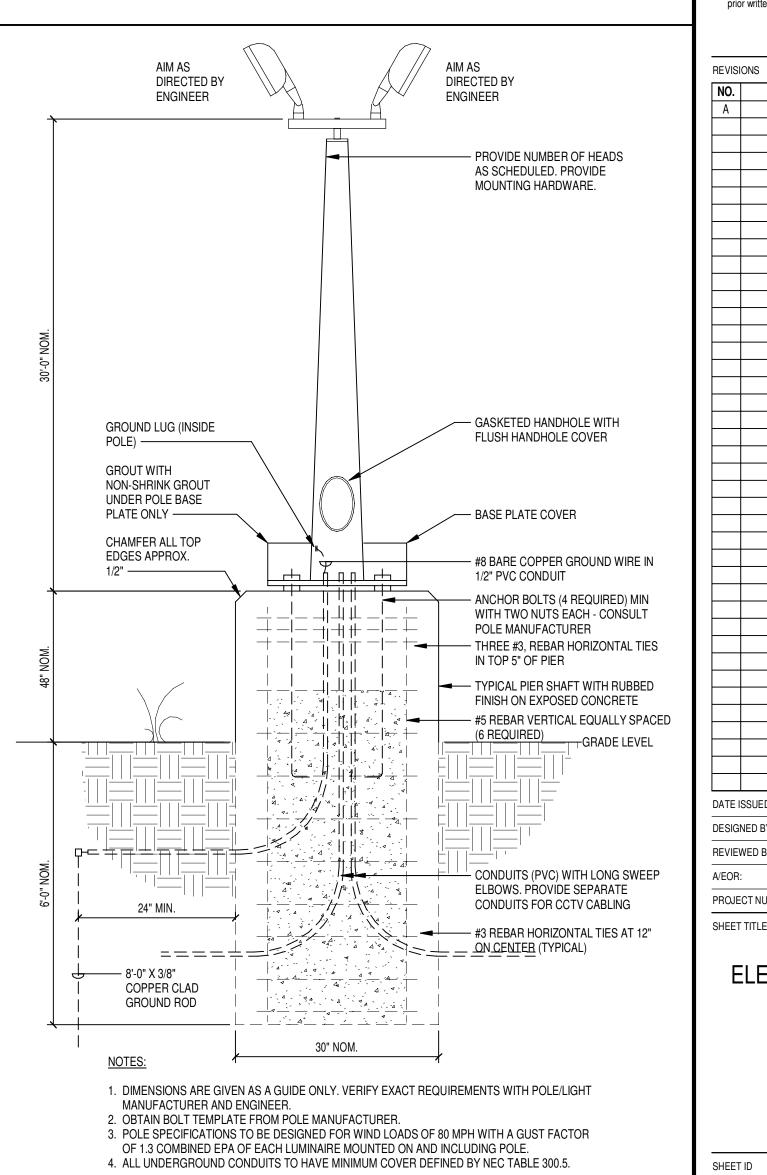
OPERATING AS: THE STELLAR GROUP 2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900 WWW.STELLAR.NET FLORIDA ARCHITECTURAL LICENSE NO. AR0013370 FLORIDA ENGINEERING LICENSE NO. CA5930



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REVISIONS DESCRIPTION PERMIT ISSUE SET 05/22/2023 DATE ISSUED: OOA DESIGNED BY: REVIEWED BY: A/EOR: 07366 PROJECT NUMBER: SHEET TITLE **ELECTRICAL DETAILS**

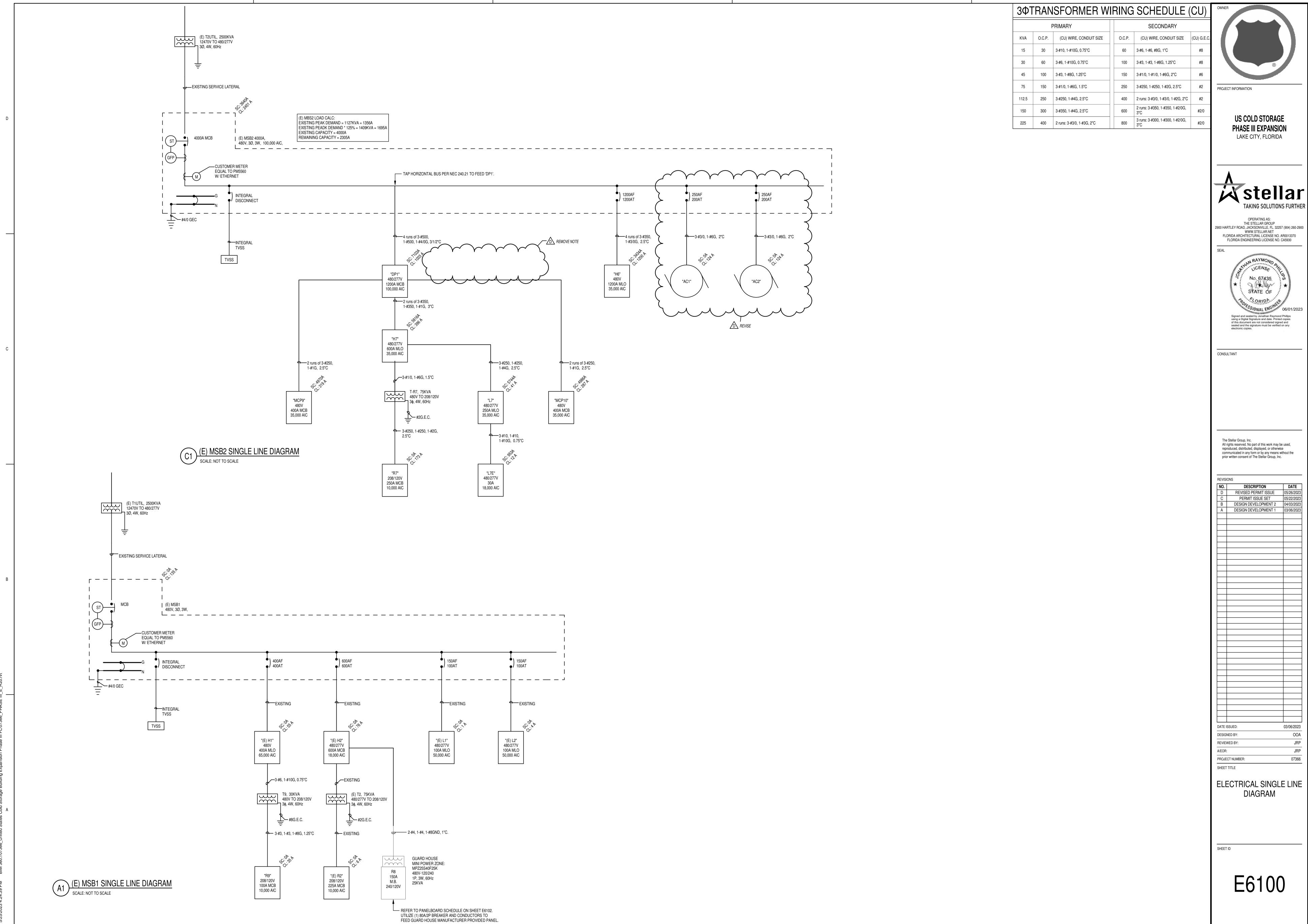
NOT TO SCALE

SITE POLE MOUNTING 1
SCALE: NOT TO SCALE

SITE POLE FLOOD LTG MOUNTING 1
SCALE: NOT TO SCALE

NOT TO SCALE

EDDNLG07



03/06/2023

	MSB2 ATION: ELECTRICAL 119					480V A MCB		PHASES: 3 Wires: 3 FED ENCLOSURE: NEMA 1	100,00	0 AIC		H6	ATION: COLD DOCK 102
	FROM: (E) T2UTIL EL NOTES:												FROM: (E) MSB2 EL NOTES:
СКТ	CIRCUIT DESCRIPTON				# OF POLES	FRAM	E TR	P Wire & Conduit Size		kVA		СКТ	CIRCUIT DESCRI
1_		~	\		\3~	1280	120	0 4 runs of 3-#350, 1#370G, 2 1/2°C		2 97.7	\	1	T-CAR - COLD DOCK 102
2	AC1 - COMPRESSOR ROOM 118	<u> </u>	Y		3	250	20	<u> </u>	Y	103.1	Z	2	- FREEZER 101
(3	AC2 - COMPRESSOR ROOM 118				3	250	20	3-#3/0, 1-#6G, 2"C		103.1		3	- COLD DOCK 102
4		$\overline{\mathbf{Y}}$	\		<u></u>							4	- FREEZER 101
5	RE	EVISED Z	<u> </u>									5	F1 - FREEZER 101
6												6	- COLD DOCK 102
7											_	7	- FREEZER 101
8											_		T-CAR - COLD DOCK 102
9													- FREEZER 101
10													- COLD DOCK 102 - COLD DOCK 102
12													- RAIL DOCK 109
13											-		F1 - RAIL DOCK 109
14											-		- RAIL DOCK 109
15												15	- FREEZER 101
16												16	E1 - FREEZER 101
17												17	F1 - RAIL DOCK 109
18												18	
19												19	
20												20	
								TOTAL CONNECTE TOTAL	_	2038.1 2451.5		21	
					LOA			TOTAL	AIVIP3.	2431.3		22	
	AL CONNECTED LOAD 2038 kVA AL CONNECTED CURR. 2452 A	TOTA				IAND (DEMAND FACTOR				23	
MC	CP9			AGE: 4			PHA		0 AIC 0 480			24	
LOCA	ATION: COLD DOCK 102 FROM: DP1					AMPS		VERT AMPS ENCLOSURE:	NEMA	<u>1</u>	-	25	
	EL NOTES: 1. DEFROST HEATER = 62.6KW	ONLY	TWO F	REEZE	R UNI	TS DEF	ROST	AT THE SAME TIME.			-	26 27	
CKT NO.	CIRCUIT DESCRIPTON	NUM. MTRS	HP EACH	STR SIZE	STR TYPE	BRKR SIZE	TRIP TYPE	WIRE AND CONDUIT	NOTES	LOAD kVA	-	28	
1	AU1115 - COLD DOCK 102	2	1	1	CONT	15	T/M	3-#12, 1-#12G,3/4"C		3.5	-	29	
2	AU1115 DEF HEATER - COLD DOCK 102		0	2	CONT	40	T/M	3-#8, 1-#10G,3/4"C		23.0		30	
3	AU1201 - CATWALK 302	3	5	1	VFD	35	T/M	3-#8, 1-#10G,1 1/4"C		19.0	ľ		
4	AU1201 DEF HEATER - CATWALK 302		0	3	CONT	100	T/M	3-#3, 1-#8G,1 1/4"C	1	62.6		-	
5	AU1202 - CATWALK 302	3	5	1	VFD	35	T/M	3-#8, 1-#10G,1 1/4"C		19.0			AL CONNECTED LOAD 998 kVA
6	AU1202 DEF HEATER - CATWALK 302		0	3	CONT	100	T/M	3-#3, 1-#8G,1 1/4"C	1	62.6	L	1017	AL CONNECTED CONN., 1200 A
7	AU1203 - CATWALK 302	3	5	1	VFD	35		3-#8, 1-#10G,1 1/4"C		19.0			NEL- L7
8	AU1203 DEF HEATER - CATWALK 302	<u> </u>	0	3	CONT			3-#3, 1-#8G,1 1/4"C	1	0.0			ATION: COLD DOCK 102 FROM: H7
9	AU1204 - CATWALK 302	3	5	1	VFD	35		3-#8, 1-#10G,1 1/4"C		19.0	L		EL NOTES:
-	AU1204 DEF HEATER - CATWALK 302 AU1205 - CATWALK 302	3	5	3	VFD	35		3-#3, 1-#8G,1 1/4"C 3-#8, 1-#10G,1 1/4"C	1	19.0		CKT 1	CIRCUIT DESCRIPTON LTG Room 101, 302
	AU1205 DEF HEATER - CATWALK 302	3	0	3	CONT			3-#3, 1-#8G,1 1/4"C	1	0.0	-		LTG Room 101, 302
	AU1206 - CATWALK 302	3	5	1	VFD	35		3-#8, 1-#10G,1 1/4"C	'	19.0			LTG Room 101, 302
	AU1206 DEF HEATER - CATWALK 302		0	3	CONT			3-#3, 1-#8G,1 1/4"C	1	0.0		7	LTG Room 101, 302
15												9	LTG Room 101, 303
16												11	LTG Room 101, 303
17												13	LTG Room 101, 303
18												15	LTG Room 101, 303
19												17	LTG COLD DOCK 102
20												19	
								TOTAL CONNECT	ED kVA: _ AMPS:	265.4 319.3		21	
	1				LOA				- AIVIF 3.	319.3	_	23	
	FAL CONNECTED LOAD 265 kVA AL CONNECTED CURR. 319 A	TOTA				IAND 2 URR. 3		DEMAND FACTOR 100.00	%			25	
M	CP10			AGE:			PHA		<u>0</u> AIC		-	27	
LOCA	ATION: COLD DOCK 102			100 A 100 A		AMPS		FED @ VERT AMPS ENCLOSURE:	2) 480 NEMA	<u>1</u>	-	29 31	
	FROM: DP1 EL NOTES: 1. DEFROST HEATER = 62.6KW	ONLY	I TWO F	REEZE	R UNI	TS DEF	ROST	AT THE SAME TIME.				33	
CKT NO.	CIRCUIT DESCRIPTON	NUM. MTRS	HP EACH	STR SIZE	STR TYPE			WIRE AND CONDUIT	NOTES	LOAD kVA		35	
	AU1207 - CATWALK 303	3	5	1	VFD	35		3-#6, 1-#6G,1 1/4"C		19.0	-	37	
2	AU1207 DEF HEATER -	1	0	1	CONT	100	T/M	3-#1, 1-#6G,1 1/4"C	1	62.6		39	
3	AU1208 - CATWALK 303	3	5	1	VFD	35	T/M	3-#6, 1-#6G,1 1/4"C		19.0		41	
4	AU1208 DEF HEATER -		0	1	CONT	100	T/M	3-#2, 1-#6G,1 1/4"C	1	62.6		l	
5	AU1209 - CATWALK 303	3	5	1	VFD	35	T/M	3-#6, 1-#6G,1 1/4"C		19.0		-	OTAL CONNECTED LOAD 34 kVA
6	AU1209 DEF HEATER - CATWALK 303		0	1	CONT	100	T/M	3-#3, 1-#8G,1 1/4"C	1	0.0	t		OTAL CONNECTED CURR. 41 A
7	AU1210 - CATWALK 303	3	5	1	VFD	35	T/M	3-#8, 1-#10G,1 1/4"C		19.0	ſ	D^	NEL- L7E
8	AU1210 DEF HEATER -		0	1	CONT			3-#3, 1-#8G,1 1/4"C	1	0.0		LOCA	ATION: BATTERY CHARGING 103
9	AU1211 - CATWALK 303	3	5	1	VFD	35		3-#8, 1-#10G,1 1/4"C		19.0	•	FED I	FROM: L7
	AU1211 DEF HEATER -		0	1	CONT			3-#3, 1-#8G,1 1/4"C	1	0.0	L	PANE CKT	CIRCUIT DESCRIPTON
	AU1212 - CATWALK 303	3	5	1	VFD	35		3-#8, 1-#10G,1 1/4"C	1	19.0			LTG Room 103, 102
-	AU1212 DEF HEATER - FREEZER 101	 	0	1	CONT	100	I/M	3-#3, 1-#8G,1 1/4"C	1	0.0			LTG Room 101, 303
13													LTG Room 101, 302, 103A
14 15		-										7 9	
15		+										11	
17		+										•	
18		+										_	
19		+											OTAL CONNECTED LOAD 10 kVA
20		+											
		!	!	!	1		ļ	TOTAL CONNECT	-	238.9			
					LOA	DS	_	TOTAL	_ AMPS:	287.4			
	TAL CONNECTED LOAD 239 kVA AL CONNECTED CURR. 287 A	TOT			T. DEN	IAND 1 URR. 2		DEMAND FACTOR 70.00%	, 0				

LOC	6			VOL	TAGE:				Ph	HASES: 3 Wires: 3	35,000 AIC
	ATION: COLD DOCK 102 FROM: (E) MSB2				1200				E	NCLOSURE: NEMA 1	@ <u>480\</u>
	EL NOTES:				# OF				<u> </u>		
СКТ					POLES	+		TRIP	0 110	Wire & Conduit Size	kVA
	T-CAR - COLD DOCK 102				3	15				5, 1-#10G, 3/4"C	39
2	- FREEZER 101				3	15	+	0		s, 1-#6G, 3/4"C	66
3	- COLD DOCK 102				3	15		0		·, 1-#4G, 1"C 	66
4	- FREEZER 101				3	15				, 1-#4G, 1"C	66
5	F1 - FREEZER 101				3	15	0	60	3-#6	5, 1-#10G, 3/4"C	39
6	- COLD DOCK 102				3	15	0			s, 1-#8G, 3/4"C	66
7	- FREEZER 101				3	15				5, 1-#6G, 3/4"C	66
	T-CAR - COLD DOCK 102				3	15				i, 1-#10G, 3/4"C	39
9	- FREEZER 101				3	15	+			2, 1-#12G, 3/4"C	66
10	- COLD DOCK 102				3	15	+			6, 1-#6G, 3/4"C	66
11	- COLD DOCK 102				3	15				2, 1-#12G, 3/4"C	66
12	- RAIL DOCK 109				3	15				s, 1-#3G, 1 1/4"C	66
	F1 - RAIL DOCK 109				3	15	+			, 1-#6G, 1"C	39
	- RAIL DOCK 109				3	15				2, 1-#2G, 1 1/4"C	66
	- FREEZER 101				3	15				s, 1-#3G, 1 1/4"C	66
	E1 - FREEZER 101				3	15				s, 1-#8G, 1 1/4"C	66
	F1 - RAIL DOCK 109				3	15	0	60	3-#4	., 1-#6G, 1"C	39
18						-					
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
										TOTAL CONNECTE TOTAL	
TO:	TAL CONNECTED LOAD 998 kVA		TOT	AL E0	LOA		000	1.3.7.6			
		OTAI			AND C					DEMAND FACTOR 70.00%	,
D/	ANEL- L7			VO	LTAGE	· 480				HASES: 3 WIRES: 4	
	ATION: COLD DOCK 102							<u>V</u>	Pŀ		35.000 AIC
	FROM: H7			SI	<u>250</u> JRFAC	A ML	0	_		FED NCLOSURE: TYPE 1	35,000 AIC @ <u>480</u>
FED	EL NOTEC:			SI		A ML	0	_		FED	
FED PANI	EL NOTES: CIRCUIT DESCRIPTON	Trip	-			A ML E MC	O UNT		E	FED NCLOSURE: <u>TYPE 1</u>	@ <u>480</u>
FED		Trip	1.7		JRFAC	A ML E MC	O UNT		El	FED NCLOSURE: <u>TYPE 1</u>	@ <u>480</u>
FED PANI CKT 1	CIRCUIT DESCRIPTON			\	JRFAC	A ML E MC	O UNT		Trip	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON	@ <u>480</u>
PANI CKT 1 3	LTG Room 101, 302	20		\	JRFAC	A ML	O UNT		EI	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101	@ <u>480</u>
PANI CKT 1 3 5	LTG Room 101, 302 LTG Room 101, 302	20		\	JRFAC	A ML	OUNT	C	EI	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG FREEZER 101	@ <u>480</u>
PANI CKT 1 3 5	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302	20 20 20	1.7	1.7	JRFAC	A ML	OUNT	C	20 20 20 20	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG FREEZER 101 LTG FREEZER 101	@ <u>480</u> Ck 2 4 6
PANI CKT 1 3 5 7	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303	2020202020	1.7	1.7	IRFAC	1.7	2.2	1.3	20 20 20 20 20	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101	@ <u>480</u> Ck 2 4 6 8 10
FED PANI CKT 1 3 5 7 9 11	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG Room 101, 303	20 20 20 20 20 20	1.7	1.7	IRFAC	1.7	OUNT	C	20 20 20 20 20 20	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101	@ 480 Cr 2 4 6 8 10
FED PANI CKT 1 3 5 7 9 11 13	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303	20 20 20 20 20 20 20	1.7	1.7	1.7	1.7	2.2	1.3	20 20 20 20 20 20 20	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101	@ 480 Ck 2 4 6 8 10 12 14 14 14 14 15 16 16 16 16 16 16 16
FED PANI CKT 1 3 5 7 9 11 13 15	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303	20 20 20 20 20 20 20 20	1.7	1.7	IRFAC	1.7	2.2	1.3 0.4	20 20 20 20 20 20 20 20	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG	@ 480 CK 2 4 6 8 10 12 14
FED PANI TO THE PA	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303	20 20 20 20 20 20 20	1.7	1.7	1.7	1.7	2.2	1.3	20 20 20 20 20 20 20 20	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101	@ 480 Cre 2 4 6 8 10 12 14 16 18
FED PANI CKT 1 3 5 7 9 11 13 15 17 19	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303	20 20 20 20 20 20 20 20	1.7	1.7	1.7	1.7	2.2	1.3 0.4	20 20 20 20 20 20 20 20	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG	@ 480 Cre 2 4 6 8 10 12 14 16 18 20
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303	20 20 20 20 20 20 20 20	1.7	1.7	1.7	1.7	2.2	1.3 0.4	20 20 20 20 20 20 20 20	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG	@ 480 Cre 2 4 6 8 10 12 14 16 20 22
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303	20 20 20 20 20 20 20 20	1.7	1.7	1.7	1.7	2.2	1.3 0.4	20 20 20 20 20 20 20 20	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG	@ 480 Creation 2 4 6 8 10 12 14 16 20 22 24
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20	1.7	1.7	1.7 1.7	1.7 1.7	2.2	1.3 0.4	20 20 20 20 20 20 20 20	CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG LTG	@ 480 Cre 2 4 6 8 10 12 14 20 22 24 26
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20	1.7	1.7	1.7	1.7	2.2 1.4	0.4 0.8	20 20 20 20 20 20 20 20 20	CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG	@ 480 Creation 2 4 6 8 10 12 14 16 20 22 24 26 28
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20 20	1.7	1.7 2.1	1.7 1.7	1.7 1.7	2.2	1.3 0.4	20 20 20 20 20 20 20 20 20 20	CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG LTG	@ 480 CK 2 4 6 8 10 12 14 16 20 22 24 26 36
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20 20 20 20	1.7	1.7	1.7 1.7 1.7	1.7 1.7 0.4	2.2 1.4	0.4 0.8	20 20 20 20 20 20 20 20 20 20 20	CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG	@ 480 Create
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20 20 20 20	1.7	1.7 2.1	1.7 1.7	1.7 1.7	2.2 1.4 0.5	0.4 0.8	EI 20 20 20 20 20 20 20 2	CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG	@ 480 Create
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20 20 20 20	1.7	0.0	1.7 1.7 1.7	1.7 1.7 0.4	2.2 1.4	0.4 0.8	20 20 20 20 20 20 20 20 20 20 20	CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG	@ 480 Create
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20 20 20 20 20	1.7	1.7 2.1	1.7 1.7 1.7 0.0	1.7 1.7 0.4	2.2 1.4 0.5	0.4 0.8	EI EI EI EI EI EI EI EI	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG LTG	@ 480 Cre 2 4 6 8 10 12 14 16 22 24 26 24 26 30 32 34 36 38
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1.7	0.0	1.7 1.7 1.7	1.7 1.7 0.4	2.2 1.4 0.5	0.4 0.8 0.0	EI EI EI EI EI EI EI EI	CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG	@ 480 Create
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1.7	0.0	1.7 1.7 1.7 0.0	1.7 1.7 0.4 0.0	2.2 1.4 0.5	0.4 0.8 0.0 0.0	EI EI EI EI EI EI EI EI	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG LTG	@ 480 Cre 2 4 6 8 10 12 14 16 22 24 26 24 26 30 32 34 36 38
FED PANI CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1.7	0.6 0.0	1.7 1.7 1.7 0.0	1.7 1.7 0.4 0.0	0.0 0.0 0.0	0.4 0.8 0.0	EI EI EI EI EI EI EI EI	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG LTG	@ 480 Create
FED PANI CKT 1 3 5 7 9 11 13 15 17 21 23 25 27 29 31 33 35 37 39 41	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1.7 1.7 1.3 1.3 0.0 0.0 12 k	0.0 0.0 2.4 AL ES	1.7 1.7 1.7 0.0 0.0	1.7 1.7 0.4 0.0 0.0 3.5 VA A A A A A A A A A A A A A A A A A A	2.2 1.4 0.5 0.0	0.4 0.8 0.0 0.0 0.0	EI EI EI EI EI EI EI EI	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101	@ 480 CK 2 4 6 8 10 12 14 16 18 20 22 24 26 30 32 34 36 40 42
FED PANI PANI TO THE PANI TO T	CIRCUIT DESCRIPTON LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 302 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303 LTG Room 101, 303 LTG COLD DOCK 102	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1.7 1.7 1.3 1.3 0.0 0.0 12 k	0.0 0.0 2.4 AL ES	1.7 1.7 1.7 0.0 0.0	1.7 1.7 0.4 0.0 0.0 3.5 VA A A A A A A A A A A A A A A A A A A	2.2 1.4 0.5 0.0	0.4 0.8 0.0 0.0 0.0	EI EI EI EI EI EI EI EI	FED NCLOSURE: TYPE 1 CIRCUIT DESCRIPTON LTG FREEZER 101 LTG BATTERY CHARGING 103 LTG LTG LTG	@ 480 CH 2 4 6 8 10 12 14 10 13 20 22 24 20 24 30 31 34 40 42

Trip A B C Trip

0.0 0.0

LOADS

 Total Load:
 2 kVA
 4 kVA
 4 kVA

 Total Amps:
 9 A
 13 A
 14 A

TOTAL EST. DEMAND CURR. 12 A

TOTAL EST. DEMAND 10 kVA

20 0.0 0.0

20 | 1.3 | 1.1 | | | | | 20 | LTG FREEZER 101

CIRCUIT DESCRIPTON

DEMAND FACTOR 100.00%

TOTAL CONNECTED LOAD 63 kVA

TOTAL CONNECTED CURR. 175 A

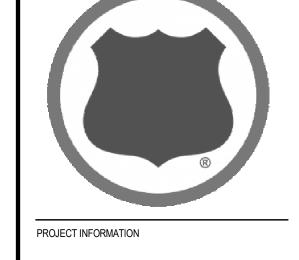
H7	7				VOL	TAGE:				PH	ASES: <u>3</u> Wires: <u>4</u>	5,000 AIC
	ATION: COLD DOCK 102					600 A	<u>A</u> MLO			EI	FED YCLOSURE: NEMA 1	@ <u>480</u>
	FROM: DP1 EL NOTES:											
СКТ	CIRCUIT DESCRIPTO	ON				# OF POLES	FRAN	IE .	TRIP		Wire & Conduit Size	kVA
1	L7					3	250		250	3-#2	50, 1-#250, 1-#4G, 2 1/2"C	34
	 T-R7					3	150		150		/0, 1-#1/0, 1-#6G, 2"C	63
	DOCK DOOR COLD DOCK 102					3	150	-	30		0, 1-#10G, 3/4"C	16
	DOCK DOOR COLD DOCK 102					3	150	-	30		0, 1-#10G, 3/4"C	16
	DOCK DOOR COLD DOCK 102					3	150		30		0, 1-#10G, 3/4"C	16
	BATT CHARGER BATTERY CHARGING	: 103				3	150	+	30		0, 1-#10G, 3/4"C	15
	BATT CHARGER BATTERY CHARGING					3	150	+	30		0, 1-#10G, 3/4"C	15
								-				
	BATT CHARGER BATTERY CHARGING					3	150		30		0, 1-#10G, 3/4"C	15
	BATT CHARGER BATTERY CHARGING					3	150		30		0, 1-#10G, 3/4"C 	15
	BATT CHARGER BATTERY CHARGING					3	150	-	30		15	
	BATT CHARGER BATTERY CHARGING					3	150	-	30		0, 1-#10G, 3/4"C	15
12	BATT CHARGER BATTERY CHARGING	103				3	150		30	3-#1	0, 1-#10G, 3/4"C	15
13	BATT CHARGER BATTERY CHARGING	103				3	150		30	3-#1	0, 1-#10G, 3/4"C	15
14	MOTORIZED DOOR Room 106, 105					3	150		30	3-#1	0, 1-#10G, 3/4"C	16
15	MOTORIZED DOOR Room 102, 107, 103	3				3	150		30	3-#1	0, 1-#10G, 3/4"C	12
16	COLD DOCK 102					3	150		30	3-#1	0, 1-#10G, 3/4"C	8
17	DISC Room 108, 109					3	150		20	3-#1	2, 1-#12G, 3/4"C	C
18	DH1001 - RAIL DOCK 109					3	150		50	3-#6	, 1-#6G, 3/4"C	18
19	DH1002 -					3	150		20	3-#1	2, 1-#12G, 3/4"C	5
20	EUH-8 -					3	150		15	3-#1	2, 1-#12G, 3/4"C	5
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
										-	TOTAL CONNECTED kV	A: 329
						104	50				TOTAL AMP	S: 396
	TAL CONNECTED LOAD 330 kVA					LOA T. DEM	1AND				DEMAND FACTOR 70.00%	
1017	AL CONNECTED CURR. 397 A		OTAL	ESI	. DEM	AND C	URR. [278 F	A			
PA	ANEL- R7				VO	LTAGE 250	: <u>208/</u> A MCE		<u>/</u>	PH	ASES: 3 WIRES: 4 FED	10,000 AIC
	ATION: COLD DOCK 102 FROM: T-R7				SI	JRFAC				E	NCLOSURE: TYPE 1	@ <u>240</u>
ーヒレ	EL NOTES:											
		NOTES	Trip	-	Α	В			С	Trip	NOTES CIRCUIT DESCRIPTON	Cł
PANE CKT		10	30	8.0	1.9					20	L1 - COLD DOCK 102	2
PANE CKT	AU1201 HEAT TRACE HEAT TRACE Room 102, 101	10	30			0.6	1.9			20	L1 - COLD DOCK 102	4
PANE CKT								8.0	1.9	20	L1 - COLD DOCK 102	6
PANE CKT 1 3	Room 102, 101	10	30			_					L1 - COLD DOCK 102	T
PANE 1 3 5	Room 102, 101 HEAT TRACE Room 108, 101	10	30	0.3	1.9					20	LT - COLD DOCK 102	8
PANE 1 3 5	Room 102, 101 HEAT TRACE Room 108, 101 HEAT TRACE Room 102, 104			0.3	1.9	0.3	1.9			20	L1 - COLD DOCK 102	
2 PANE 2 1 3 5 7 9	Room 102, 101 HEAT TRACE Room 108, 101 HEAT TRACE Room 102, 104 AU1202 HEAT TRACE - CATWALK 302	10	30	0.3	1.9	0.3		0.3	1.9			1
PANE CKT 1 3 5 7 9 11	Room 102, 101 HEAT TRACE Room 108, 101 HEAT TRACE Room 102, 104 AU1202 HEAT TRACE - CATWALK 302 AU1203 HEAT TRACE - CATWALK 302	10	30	0.3	1.9	0.3		0.3	1.9	20	L1 - COLD DOCK 102	1
2 PANE 2 CKT 1 3 5 7 9 11 13	Room 102, 101 HEAT TRACE Room 108, 101 HEAT TRACE Room 102, 104 AU1202 HEAT TRACE - CATWALK 302 AU1203 HEAT TRACE - CATWALK 302 AU1204 HEAT TRACE - CATWALK 302	10 10 10	30 30 30			0.3		0.3	1.9	20	L1 - COLD DOCK 102 L1 - COLD DOCK 102	1: 1: 1:
PANE CKT 1 3 5 7 9 11 13 15	Room 102, 101 HEAT TRACE Room 108, 101 HEAT TRACE Room 102, 104 AU1202 HEAT TRACE - CATWALK 302 AU1203 HEAT TRACE - CATWALK 302 AU1204 HEAT TRACE - CATWALK 302 AU1205 HEAT TRACE - CATWALK 302	10 10 10 10	30 30 30 30				1.9	0.3	1.9	20 20 20	L1 - COLD DOCK 102 L1 - COLD DOCK 102 L1 - COLD DOCK 102	1 1

21 AU1206 HEAT TRACE - CATWALK 302 | 10 | 30 | | 0.3 | 0.7 | | 0 | - FREEZER 101 23 AU1207 HEAT TRACE FREEZER 101 - FREEZER 101 25 AU1209 HEAT TRACE - FREEZER 101 - FREEZER 101 - FREEZER 101 27 HEAT TRACE RAIL DOCK 109 - FREEZER 101 29 AU1211 HEAT TRACE - FREEZER 101 31 AU1210 HEAT TRACE - FREEZER 101 - Room 101, 104, 102 33 AU1212 HEAT TRACE - FREEZER 101 | 10 | 30 | 0.3 0.5 - Room 105, 102 35 AU1208 HEAT TRACE - FREEZER 101 | 10 | 30 | - Room 102, 106 37 HEAT TRACE FREEZER 101 - VESTIBULE 107 39 HEAT TRACE COLD DOCK 102 L1 - RAIL DOCK 109 41 HEAT TRACE Room 103, 103A L1 - RAIL DOCK 109 43 | HEAT TRACE Room 102, 106 L1 - RAIL DOCK 109 45 | HEAT TRACE Room 101, 109 L1 - RAIL DOCK 109 47 - COLD DOCK 102 L1 - RAIL DOCK 109 49 - FREEZER 101 0 0.2 1.9 L1 - RAIL DOCK 109 53 FUTURE RADIANT HEAT BATTERY CHARGING 103 2.5 0.4 REC COLD DOCK 102 REC Room 103 61 FREEZER 161 0 0.4 0.7 20 63 REC COLD DOCK 102 20 0.4 0.7 20 REC Room 102 REC BATTERY CHARGING 103 GENERAL NOTES WHICH APPLY TO ALL CONDITIONS: 0.0 0.5 20 A. WIRE/CONDUIT SIZES ARE BASED ON ESTIMATED CONTINUOUS LOAD 0.0 1.1 20 AND COPPER WIRE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS TO WIRE AND CONDUIT SIZES,
 Total Load:
 22 kVA
 21 kVA
 20 kVA

 Total Amps:
 181 A
 176 A
 170 A
 ALLOWING FOR VOLTAGE DROP BASED ON THE ACTUAL INSTALLED 4. PROVIDE FEED THRU LUGS.

TOTAL EST. DEMAND 44 kVA

TOTAL EST. DEMAND CURR. 123 A



US COLD STORAGE PHASE III EXPANSION LAKE CITY, FLORIDA



OPERATING AS:
THE STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900
WWW.STELLAR.NET
FLORIDA ARCHITECTURAL LICENSE NO. AR0013370
FLORIDA ENGINEERING LICENSE NO. CA5930



CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
С	REVISED PERMIT ISSUE	05/26/20
В	PERMIT ISSUE SET	05/22/20
Α	DESIGN DEVELOPMENT 2	04/03/20
		1
		+
\vdash		
\vdash		
DATE IS	SUED:	04/03/20
DESIGN		0
2201011		

REVIEWED BY: A/EOR: 07366 PROJECT NUMBER: SHEET TITLE

PANEL SCHEDULES

REVIEW ALL NAMEPLATE DATA FOR DISCREPANCIES, WHICH SHALL BE 6. THERMAL MAGNETIC BREAKER AND CONTACTOR ONLY. OVERLOAD 7. CONTROLLED BY PHOTOCELL (ON/OFF) VIA CONTACTOR. CONTACTOR SHALL BE 480V, 6 POLE, 30 A.

8. CONTROLLED BY PHOTOCELL (ON) TIMESWITCH (OFF) VIA

SPECIFIC NOTES WHICH APPLY AS SPECIFIED:

CONTACTOR. CONTACTOR SHALL BE 480V, 6 POLE, 30 A.

SERVICE ENTRANCE RATED.

3. PROVIDE NEUTRAL PAD ONLY.

RELAY NOT REQUIRED.

CONDITIONS OF FEEDERS. THE ELECTRICAL CONTRACTOR SHALL ALSO

5. PROVIDE LOCK-OUT DEVICE AT ALL BRANCH CIRCUIT BREAKERS.

C. ALL BOARDS SHALL BE FULLY RATED FOR AVAILABLE FAULT CURRENT. 10. PROVIDE 30 MA G.F.C.I. BREAKER.

SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FINAL

MONEY TO THE STELLAR GROUP OR FACILITY OWNER.

SERIES / INTEGRATED RATINGS ARE NOT ACCEPTABLE.

B. VARIATIONS TO CIRCUIT POSITIONS ON PANELS SHALL NOT BE MADE
WITHOUT WRITTEN APPROVAL FROM ENGINEER. UN-APPROVED
VARIATIONS WILL BE CORRECTED WITH NO EXPENSE IN TIME OR

INSTALLATION.

DEMAND FACTOR 70.00%

2. BREAKER SHALL BE 100% RATED.

9. PROVIDE 5 MA G.F.C.I. BREAKER.

PANEL- (E) L1 IDP1 **65,000** AIC **50,000** AIC 400 A MLO 100 A MLO LOCATION: ELECTRICAL 119 **ENCLOSURE: NEMA 1** LOCATION: ELECTRICAL 119 SURFACE MOUNT **ENCLOSURE: NEMA 1** LOCATION: Room 120 ENCLOSURE: NEMA 1 FED FROM: (E) MSB1 ED FROM: (E) H1 FED FROM: (E) MSB2 PANEL NOTES: SCHEDULE ONLY ILLUSTRATES THE CIRCUITS ADDED TO THE EXISTING PANELBOARD. PROVIDE NEW BREAKERS IN EXISTI PANEL NOTES: SCHEDULE ONLY ILLUSTRATES THE CIRCUITS ADDED TO THE EXISTING PANELBOARD. PROVIDE NEW BREAKERS IN EXISTING ELECTRICAL PANEL. MATCH EXISTING MANUFACTURER, TYPE, AND AIC RATING. ELECTRICAL PANEL. MATCH EXISTING MANUFACTURER, TYPE, AND AIC RATING. CIRCUIT DESCRIPTON CIRCUIT DESCRIPTON Trip A B C Trip # OF POLES FRAME TRIP # OF POLES FRAME TRIP CIRCUIT DESCRIPTON Wire & Conduit Size CIRCUIT DESCRIPTON Wire & Conduit Size 1 MCP9 400 400 2 runs of 3-#250, 1-#1G, 2 1/2"C 400 400 2 runs of 3-#250, 1-#1G, 2 1/2"C 600 600 2 runs of 3-#350, 1-#350, 1-#1G, 3"C 0.0 0.1 **20 LTG BREAK ROOM 201** 20 LTG Room 201, 206, 207, 205, 204, 203, 202 TOTAL CONNECTED kVA: 834. 3 | 150 | 35 | 3-#8, 1-#10G, 3/4"C TOTAL AMPS: 1003. 3 | 150 | 60 | 3-#6, 1-#6, 1-#10G, 1"C TOTAL CONNECTED LOAD 834 kVA TOTAL EST. DEMAND 584 kVA **DEMAND FACTOR** 70.00% TOTAL CONNECTED CURR. 1004 A TOTAL EST. DEMAND CURR. 702 A 0.0 0.0 0.0 0.0 PANEL- R8 150 A MCB LOCATION: SURFACE MOUNT **ENCLOSURE: TYPE 1** FED FROM: PANEL R8 PANEL NOTES: 0.0 0.0 CIRCUIT DESCRIPTON CIRCUIT DESCRIPTON TOTAL CONNECTED kVA: Total Load: 0 kVA 0 kVA 0 kVA TOTAL AMPS: Total Amps: 1 A 0 A 0 A TOTAL CONNECTED LOAD 46 kVA TOTAL EST. DEMAND 0 kVA TOTAL CONNECTED LOAD 0 kVA TOTAL EST. DEMAND **0 kVA** DEMAND FACTOR DEMAND FACTOR TOTAL CONNECTED CURR. 55 A TOTAL EST. DEMAND CURR. 0 A TOTAL CONNECTED CURR. 1 A TOTAL EST. DEMAND CURR. 0 A 80 GUARD HOUSE -PANEL- (E) H2 PANEL- (E) L2 **18,000** Ale 600 A MCB 100 A MLO SURFACE MOUNT LOCATION: ELEC. 603 SURFACE MOUNT ENCLOSURE: TYPE 1 CATION: ELEC. 603 **ENCLOSURE: NEMA 1** 0.6 0.5 D FROM: (E) MSB1 PANEL NOTES: SCHEDULE ONLY ILLUSTRATES THE CIRCUITS ADDED TO THE EXISTING PANELBOARD. PROVIDE NEW BREAKERS IN EXISTING ELECTRICAL PANEL. MATCH EXISTING MANUFACTURER, TYPE, AND AIC RATING. SCHEDULE ONLY ILLUSTRATES THE CIRCUITS ADDED TO THE EXISTING PANELBOARD. PROVIDE NEW BREAKERS IN EXISTIN PANEL NOTES: SCHEDULE UNLY ILLUSTRATES THE GINGGITS ADDED TO THE EXISTING. ELECTRICAL PANEL. MATCH EXISTING MANUFACTURER, TYPE, AND AIC RATING. Trip A B C Trip CIRCUIT DESCRIPTON CIRCUIT DESCRIPTON Trip A B C Trip CIRCUIT DESCRIPTON ─ 80 PANEL R8 0.0 | 13.3 | 0.0 0.0 60 TRACK MOBILE 0.0 0.0 20 0.0 0.0 Total Load: 12 kVA 12 kVA Total Amps: 97 A 97 A 0.0 0.0 TOTAL EST. DEMAND 16 kVA TOTAL CONNECTED LOAD 23 kVA DEMAND FACTOR 70.00% TOTAL CONNECTED CURR. 97 A TOTAL EST. DEMAND CURR. 68 A PANEL- R9 100 A MCB LOCATION: ELECTRICAL 119 SURFACE MOUNT ENCLOSURE: TYPE 1 20 | SITE LTG FED FROM: **T9** PANEL NOTES: CIRCUIT DESCRIPTON Trip A B C Trip CIRCUIT DESCRIPTON 20 SITE LTG 20 CANOPY LIGHTING 20 EWH1 - JANITOR 208 5 P-1 - COMPRESSOR ROOM 118 REC BREAK ROOM 201 20 GARBAGE DISPOSAL BREAK ROOM 201 20 REC BREAK ROOM 201 9 REC BREAK ROOM 201 0.2 0.2 20 REC BREAK ROOM 201 11 REC BREAK ROOM 201 20 REC BREAK ROOM 201 13 REC Room 207, 206, 205, 204, 203, 208, 202 Total Load: 26 kVA 26 kVA 13 kVA Total Load: 0 kVA 1 kVA 1 kVA **Total Amps:** 101 A 101 A 48 A Total Amps: 1 A 5 A 5 A 20 REC BREAK ROOM 201 5 REC BREAK ROOM 201 0.2 0.2 20 REC BREAK ROOM 201 7 REC BREAK ROOM 201 TOTAL EST. DEMAND 0 kVA TOTAL CONNECTED LOAD 65 kVA TOTAL EST. DEMAND 0 kVA TOTAL CONNECTED LOAD 3 kVA DEMAND FACTOR DEMAND FACTOR TOTAL EST. DEMAND CURR. 0 A TOTAL CONNECTED CURR. 78 A TOTAL EST. DEMAND CURR. O A TOTAL CONNECTED CURR. 4 A 20 REC BREAK ROOM 201 REC BREAK ROOM 201 PANEL- (E) RDH PANEL- (E) R2 18,000 AIC 21 DD-2 - COMPRESSOR ROOM 118 200 A MCB LOCATION: ELEC. 603 LOCATION: RAIL DOCK 109 SURFACE MOUNT **ENCLOSURE: TYPE 1** SURFACE MOUNT ENCLOSURE: NEMA 1 REC Room 202, 201 FED FROM: (E) T2 PANEL NOTES: SCHEDULE ONLY ILLUSTRATES THE CIRCUITS ADDED TO THE EXISTING PANELBOARD. PROVIDE NEW BREAKERS IN EXISTING ELECTRICAL PANEL. MATCH EXISTING MANUFACTURER, TYPE, AND AIC RATING. SCHEDULE ONLY ILLUSTRATES THE CIRCUITS ADDED TO THE EXISTING PANELBOARD. PROVIDE NEW BREAKERS IN EXISTING PANEL NOTES: SCHEDULE UNLY ILLUSTRATES THE GINGGITS ABBED TO THE EXISTING. 25 EWC BREAK ROOM 201 20 DD-1 - COMPRESSOR ROOM 118 CKT CIRCUIT DESCRIPTON Trip A B C Trip CIRCUIT DESCRIPTON CIRCUIT DESCRIPTON Trip A B C Trip CIRCUIT DESCRIPTON 1 CANOPY RECEPTS 30 DOCK LEVELER RAIL DOCK 109 3 CANOPY RECEPTS 3 DOCK LEVELER RAIL DOCK 109 Total Load: 4 kVA 4 kVA 4 kVA **Total Amps:** 36 A 32 A 37 A TOTAL EST. DEMAND 9 kVA TOTAL CONNECTED LOAD 12 kVA DEMAND FACTOR 70.00% TOTAL CONNECTED CURR. 35 A TOTAL EST. DEMAND CURR. 24 A Total Load: 1 kVA 1 kVA 0 kVA Total Load: 5 kVA 5 kVA 5 kVA

Total Amps: 19 A 19 A 19 A

TOTAL EST. DEMAND 0 kVA

DEMAND FACTOR

TOTAL CONNECTED LOAD 16 kVA

TOTAL CONNECTED CURB. 19 A TOTAL EST. DEMAND CUBB. 0 A

Total Amps: 10 A 10 A 0 A

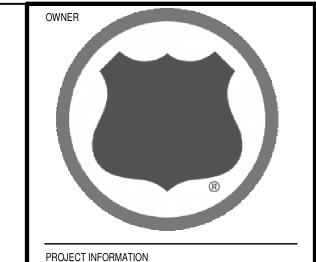
TOTAL EST. DEMAND CURR. 0 A

TOTAL CONNECTED LOAD 2 kVA

TOTAL CONNECTED CURR. 6 A

TOTAL EST. DEMAND 0 kVA

DEMAND FACTOR



100,000 AIC

10,000 AIC

10,000 AIC

@ <u>240\</u>

 $\sqrt{\mathsf{C}}$ ADD CKTS

US COLD STORAGE PHASE III EXPANSION LAKE CITY, FLORIDA

THE STELLAR GROUP 2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900 WWW.STELLAR.NET FLORIDA ARCHITECTURAL LICENSE NO. AR0013370 FLORIDA ENGINEERING LICENSE NO. CA5930



CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
С	REVISED PERMIT ISSUE	05/26/20
В	PERMIT ISSUE SET	05/22/20
Α	DESIGN DEVELOPMENT 2	04/03/20
		+
		+
		+
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\vdash		
\vdash		+
\Box		
DATE I	SSUED:	04/03/20
DESIG	NED BY:	0

PANEL SCHEDULES

SPECIFIC NOTES WHICH APPLY AS SPECIFIED:

CONTACTOR SHALL BE 480V, 6 POLE, 30 A.

7. CONTROLLED BY PHOTOCELL (ON/OFF) VIA CONTACTOR.

8. CONTROLLED BY PHOTOCELL (ON) TIMESWITCH (OFF) VIA

CONTACTOR. CONTACTOR SHALL BE 480V, 6 POLE, 30 A.

SERVICE ENTRANCE RATED.

2. BREAKER SHALL BE 100% RATED.

3. PROVIDE NEUTRAL PAD ONLY.

RELAY NOT REQUIRED.

9. PROVIDE 5 MA G.F.C.I. BREAKER.

GENERAL NOTES WHICH APPLY TO ALL CONDITIONS:

INSTALLATION.

A. WIRE/CONDUIT SIZES ARE BASED ON ESTIMATED CONTINUOUS LOAD AND COPPER WIRE. THE ELECTRICAL CONTRACTOR SHALL BE

B. VARIATIONS TO CIRCUIT POSITIONS ON PANELS SHALL NOT BE MADE

<u>WITHOUT WRITTEN APPROVAL FROM ENGINEER.</u> UN-APPROVED VARIATIONS WILL BE CORRECTED WITH NO EXPENSE IN TIME OR

ALLOWING FOR VOLTAGE DROP BASED ON THE ACTUAL INSTALLED

4. PROVIDE FEED THRU LUGS.

C. ALL BOARDS SHALL BE FULLY RATED FOR AVAILABLE FAULT CURRENT. 10. PROVIDE 30 MA G.F.C.I. BREAKER.

CONDITIONS OF FEEDERS. THE ELECTRICAL CONTRACTOR SHALL ALSO 5. PROVIDE LOCK-OUT DEVICE AT ALL BRANCH CIRCUIT BREAKERS. REVIEW ALL NAMEPLATE DATA FOR DISCREPANCIES, WHICH SHALL BE 6. THERMAL MAGNETIC BREAKER AND CONTACTOR ONLY. OVERLOAD

RESPONSIBLE FOR ADJUSTMENTS TO WIRE AND CONDUIT SIZES.

SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FINAL

MONEY TO THE STELLAR GROUP OR FACILITY OWNER.

SERIES / INTEGRATED RATINGS ARE NOT ACCEPTABLE.

REVIEWED BY:

PROJECT NUMBER:

