

Scope of Work

This Project scope is for the new construction of a single floor dental office clinic.

General Notes and Requirements

- These documents design and specifications are the exclusive property of PNM Architecture (the Architect). Reproduction in any form without the expressed written permission of PNM Architecture is strictly prohibited.
- PNM Architecture (the Architect) does not exercise control, and shall not be responsible for any construction means, methods, techniques, sequences or procedures, or for safety practices in connection with the work. Furthermore PNM Architecture (the Architect) does not hold any liability for acts or omissions of the Contractor, Sub-Contractors or any other persons performing any work, or for the failure of any of them to carry out the work in accordance with these documents and all governing statutes.
- All work shall comply with the 2020 Florida Building Code and all other applicable rules and regulations.
- The General Contractor and all Sub-Contractors shall verify all conditions, details and dimensions before proceeding with work, and shall be responsible for coordination of that work. The Architect shall be notified immediately of any discrepancies.
- Drawing dimensions should be followed and scaling of drawings avoided. Dimensions supersede scale on drawings.
- It is intended that all work be of the highest quality, and performed by accomplished craftsmen in a workmanlike manner using accepted practices and methods appropriate to the trade involved.
- All products and materials shall be installed as per manufacturer's instruction and specifications unless specifically otherwise directed by the Architect.
- The General Contractor, Sub-Contractors and Suppliers shall be responsible for coordinating their work and certifying that their products and installations meet the Florida Building Code, the Florida Accessibility Code as well as all applicable government statutes.
- The General Contractor shall be responsible for obtaining all applicable permits and providing the Owner with all applicable certificates, operating manuals, warranties, etc. prior to occupancy.
- All work in question including materials, finishes and colors shall be coordinated with appointed project manager.
- All work requiring alteration of existing finishes shall be patched to match the existing and blend without indication of being patched.
- Provide non-slip surfaces at all areas continually exposed to moisture or surface water.
- All fabricated items shall be made from field measurements. Provide shop drawings or submittals for approval prior to fabrication and installation.
- Mechanical and Electrical Contractors shall be responsible for providing appropriate details and specifications of all penetrations through fire-rated construction as may be required by the building official.
- The General Contractor and sub Contractors are required, before commencing work, to visit the site of the proposed work and completely familiarize themselves with the scope and nature of the work. Any existing conditions that may in any manner affect their work should be ascertained regardless of whether it is indicated on the drawings. Any oversight or omission to identify existing condition which may affect scope of work is Contractor(s) responsibility.
- All Contractors are required to examine carefully the drawings, specification and other documents to inform themselves thoroughly regarding any and all conditions and requirements that may in any manner affect the work.
- All contractors shall not avail themselves of any unintentional error or omission and shall be charged with the responsibility of furnishing a complete portion of this contract according to the reasonably implied spirit and intent of the drawings. Change orders will not be granted after the General Contractor's contract is signed, unless they can be substantiated as an unforeseeable item beyond the general intent and scope of the work.
- Structural roof truss componet supplier to supply engineered truss layout and truss profile shop drawings designed by a licensed Florida Engineer.
- See Life Safety Plans, Floor Plans and Partition types for location of fire rated walls.
- Provide continuous horizontal blocking in all partitions where indicated and where required for equipment and casework attachment.
- In General, There shall be no back-to-back electrical, telephone or other outlets. Outlet holes shall be packed with acoustical sealant.
- When outlets are inciated as occurring back-to-back they should be separated by 16" horizontally. Where dimensions are shown which conflict with this, obtain direction from Architect.
- Provide a sealant joint at all intersection of GWB walls or GWB ceiling with CMU or concrete structure.
- Maintain integrity of all rated partitions and installation of recessed fire extinguisher cabinets, cabinets, towel dispensers, receptacles, electrical panels and other recessed items. At GWB walls, obtain this integrity by installing an additional layer of gypsum board within wall around all sides of item and an additional layer behind them.
- Where HVAC or other mechanical, electrical, and plumbing items penetrate partitions, studs shall be braced and framed to structure as required to provide adequate support. All penetrations through walls shall be sealed to provide fire, smoke and or acoustic isolation spaces.
- Before patching any fire-rated CMU or concrete partition, fill any exposed cells/cavaties solid with grout.
- Provide finished walls under and behind wall equipment and casework.
- Work of MEP disciplines as shown on drawings are for coordination and convenience purposes only. Refer to appropriate discipline drawings for complete and governing information regarding their work.
- Where exposed structure ceiling areas occur in architectural reflected ceiling plans, full delineation of structural, mechanical, electrical, and plumbing systems is not provided. Selected elements and devices MAY be shown for location and coordination, but contractor should not assume all equipment is indicated.
- Actual physical size of equipment shown should be verified for all required clearances prior to installation. Items shown on plans are represented schematically and should not be assumed to represent actual size.
- These drawings do not indicated fire sprinkler equipment, sprinkler heads, or FS piping.

New Dental Clinic

1403 Cleveland Ave Wildwood Florida

Site Address

1403 Cleveland Ave Wildwood Florida

Building Code(s)

Building Code – FBC 2020 (7th edition)
 Fire Code – FFPC 2020 (7th edition)
 *Fire Code – NFPA 1 2018
 *Life Safety Code – NFPA 101 2018
 Plumbing Code – FBPC 2020
 Mechanical Code – FBMC 2020
 Electrical Code – NEC 2020 (7th edition)
 Accessory Code – FBC 2020 (7th edition)
 Administrative Code – FAC
 Florida Statutes – FS

* indicates with Florida Admndments

Building Data

Occupancy Classification ----- B
 Occupant Load (FBC)----- 53
 Occupant Load (NFPA 101)-----53
 Construction Type ----- VB
 Total Bulding area-----3,696 SF
 Building stories-----1

Building is not sprinklered

see Life Safety/EGRESS Plan IO.5 for occupant load breakdown.

Code Analysis

Allowable Height as per FBC table 504.3a for occupancy B
 Type VB construction ----- 40'

Allowable number of stories per FBC table 504.4 for occupancy B

Type VB construction -----2 stories

Allowable Area as per FBC table 506.2 for Business use
 non sprinklered
 Type VB construction ----- 9,000 SF

TOTAL ALLOWABLE AREA -----9,000 SF
 BUILDING AREA ----- 3,696 SF

Plumbing Fixture count
 Occupant load 53
 Per FBC (Plumbing) Table 403.1 BUSINESS
Water Closets 1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50
Lavatories 1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80
Drinking Fountain 1 per 100
Service Sink 1 required

SUPPLIED:

- 3 WATER CLOSETS
- 3 LAVATORIES
- 1 DRINKING FOUNTAIN
- 1 SERVICE SINK

Project Team Members

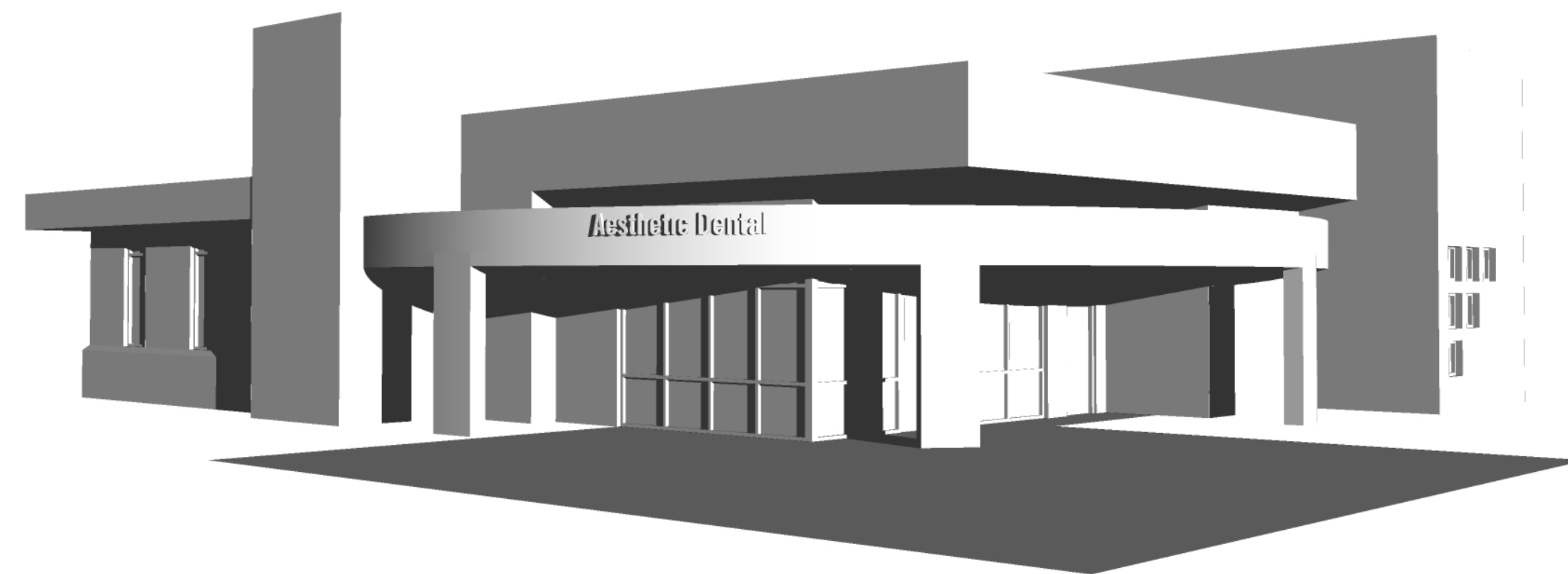
Owner/Agent; Dr. Majid Heydari Architect: Paul N Medley
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 Longwood Fl 32779
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 407-786-4811

Civil Eng: Paolo Mastroserio, PE
 Mastroserio Engineering Inc.
 170 SE 32ND PLACE,
 Ocala, FL 34471
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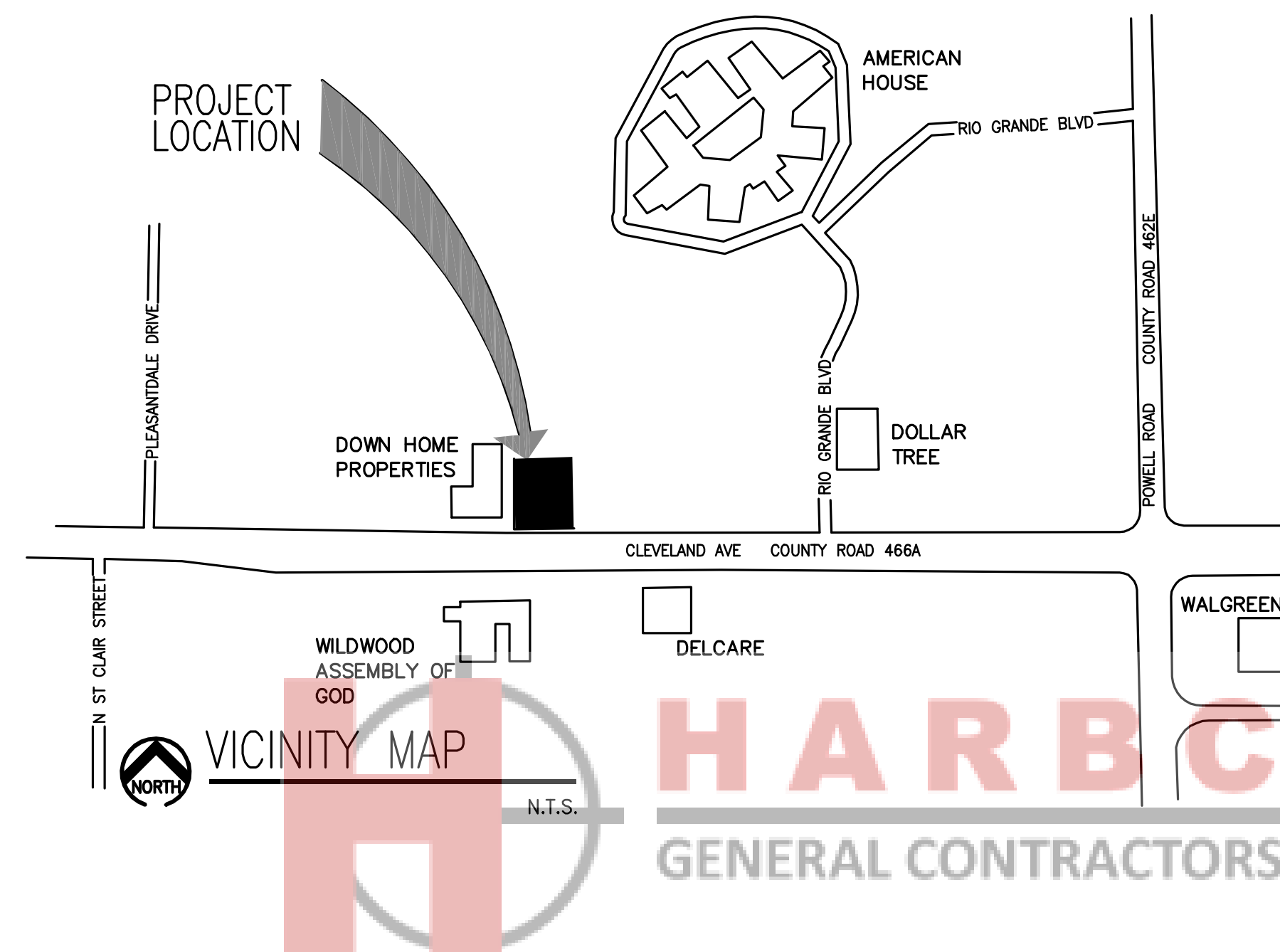
Contractor: Chap Dinkins Dinkins Construction
 2831 SE 17th Street
 Ocala, FL 34471
 352-368-2299

Interiors: SASKIA FAZIO-MCPHAIL
 Fazio Architects
 308-B Congress Ave
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 512-772-5812



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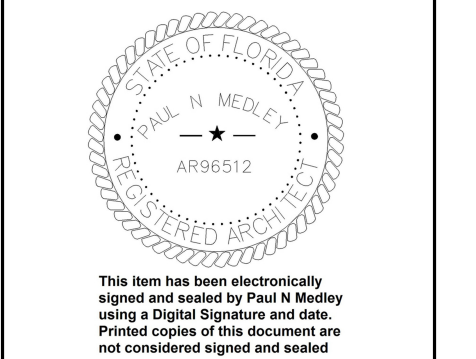
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Date: 2022.09.19 11:00:54 -04'00'

PROJECT
New Dental Clinic for Dr. Majid Heydari
 1403 Cleveland Ave Wildwood Florida

REVISION DATES

DATE
 9-15-22

SHEET TITLE
 COVER SHEET

SHEET NUMBER

CS

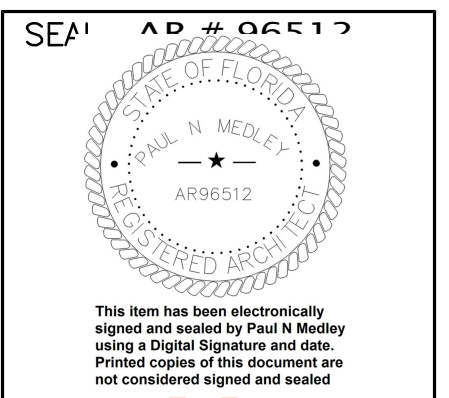
PROJECT NO.
 016-20





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PROJECT
New Dental Clinic for Dr. Majid Heydari
 1403 Cleveland Ave
 Wildwood Florida

REVISION DATES

DATE
 9-15-22

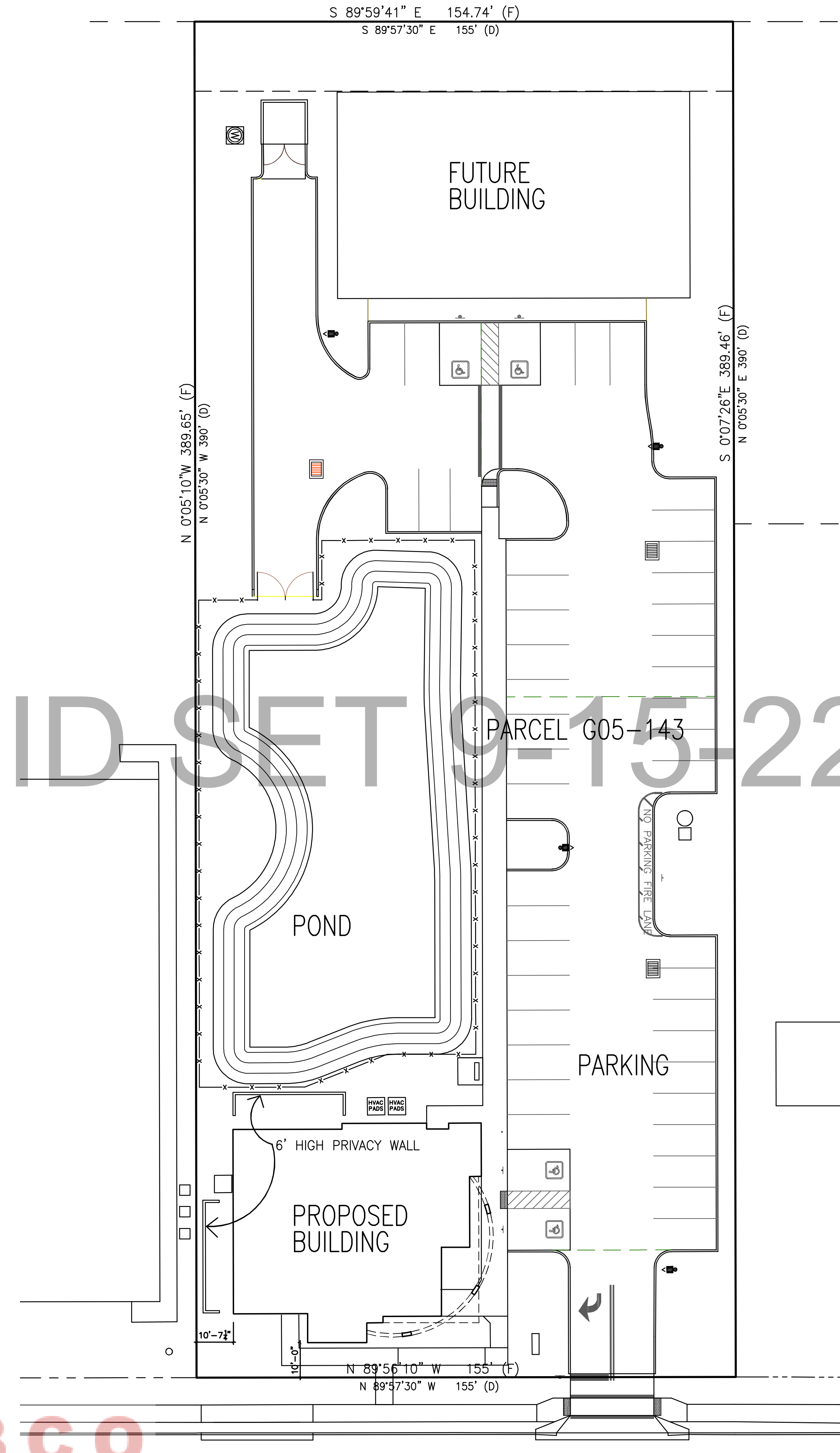
SHEET TITLE
 SITE PLAN

SHEET NUMBER

C1

PROJECT NO.
 016-20

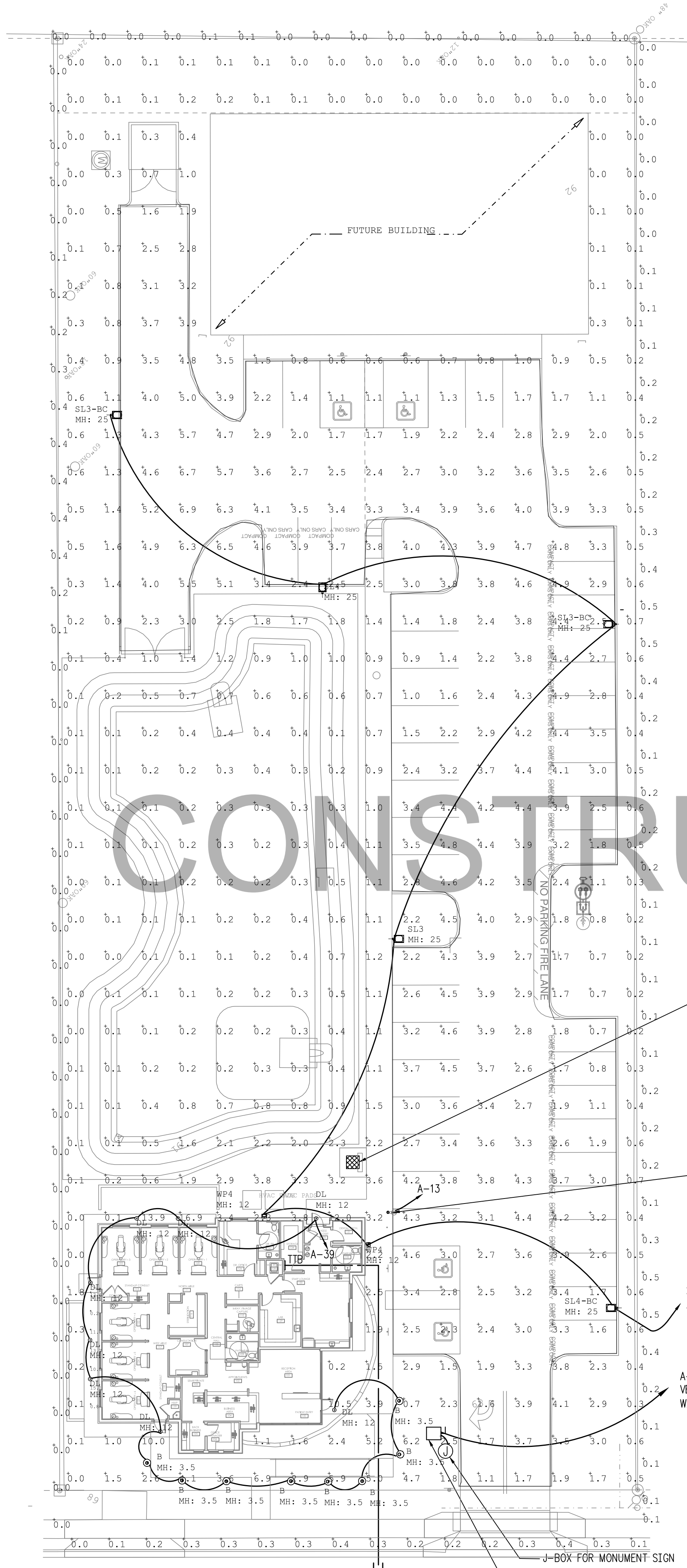
CONSTRUCTION BID SET 9-15-22



SITE PLAN

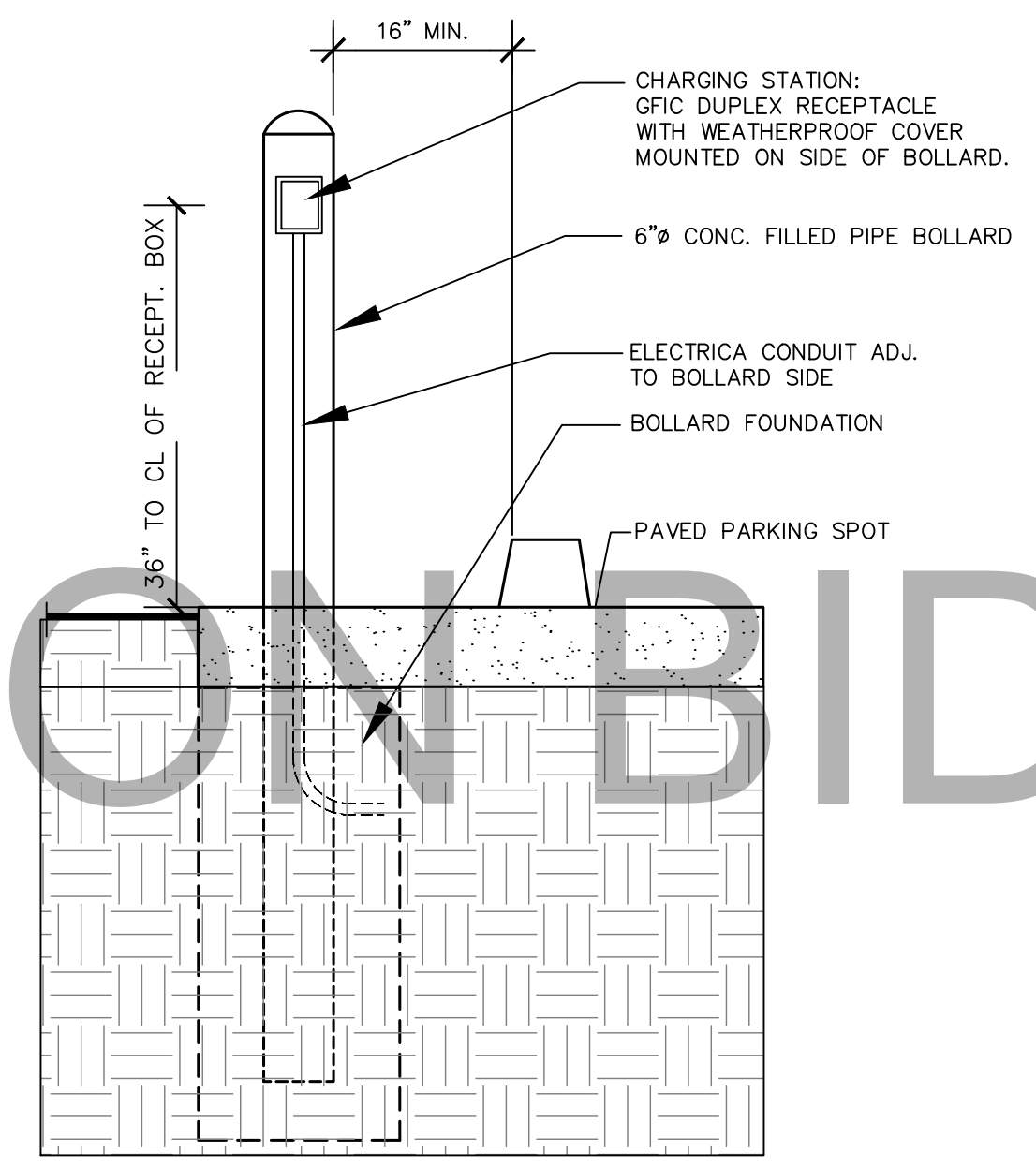
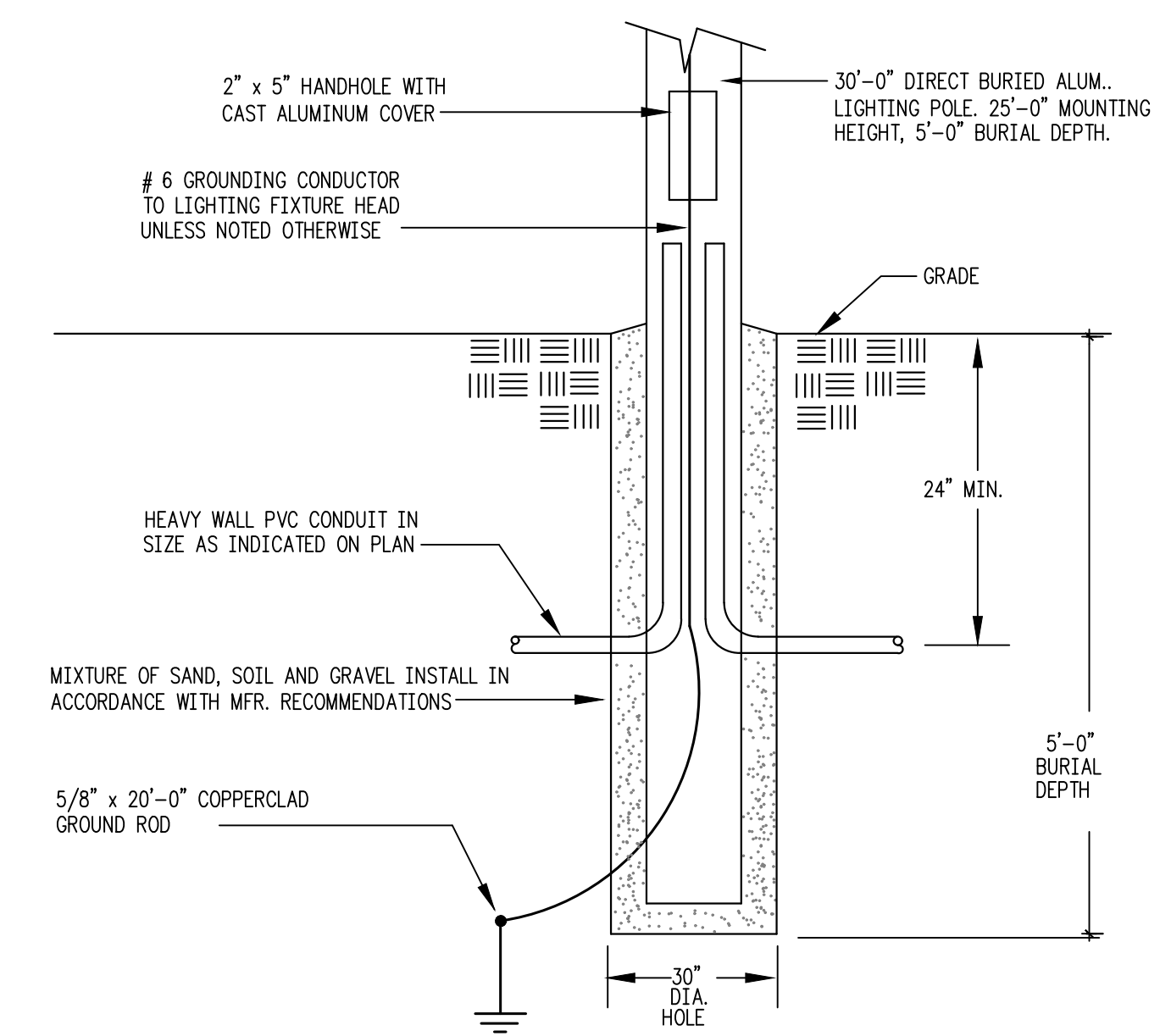
SCALE: 1"=20'

NOTE: REFER TO MASTROSERIO ENGINEERING SITE SUBMISSION TO TOWN OF WILDWOOD ENGINEERING FOR FULL SITE PLAN



SITE PLAN - LIGHTING
NTS

(A) PARKING LIGHTING FIXTURES
(E-1) DIRECT BURIAL POLE MOUNTING DETAIL
NOT TO SCALE



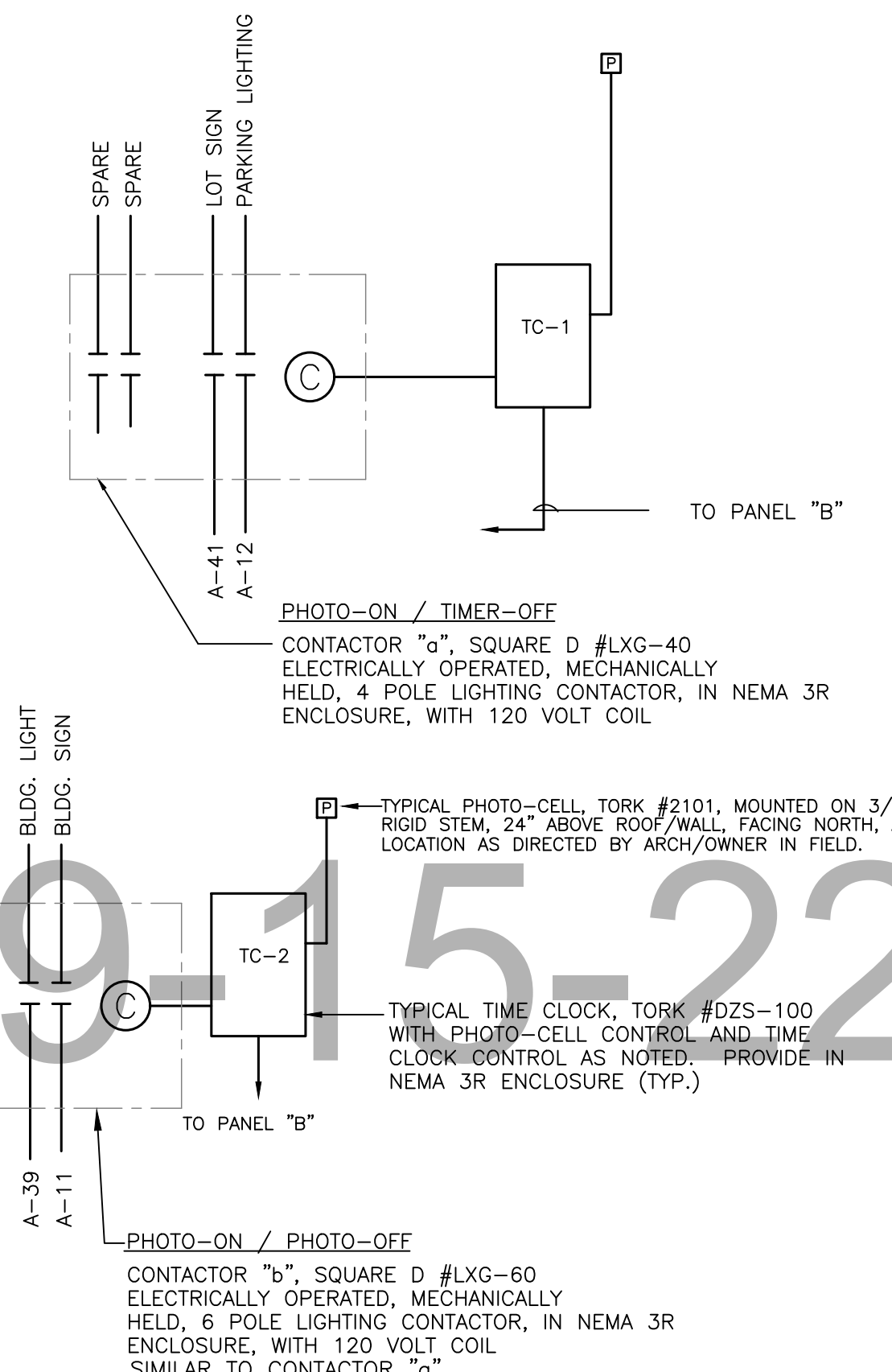
CHARGING STATION DETAIL
NTS

SITE PLAN ELECTRICAL NOTES:

- 1 WIRE CIRCUIT VIA CONTACTOR. ALL BRANCH WIRING SHALL BE 2 #10, 1 #10 GROUND IN 1" CONDUIT AT 24" BELOW FINAL GRADE MINIMUM. HOME RUN WIRING SHALL BE 2 #10, 1 #10 GROUND IN 1" CONDUIT AT 24" BELOW FINAL GRADE MINIMUM. SEE DETAIL.
- 2 CONDUIT STUBS FOR INCOMING TELEPHONE SERVICE. COORDINATE EXACT TERMINATION LOCATION WITH TELEPHONE COMPANY IN FIELD PRIOR TO ROUGH-IN. CONDUIT SHALL BE 24" BELOW FINAL GRADE MINIMUM.

ELECTRICAL LIGHTING PLAN LEGEND

- DISCONNECT SWITCH
- SPECIAL OUTLET- COORD. WITH OWNER FOR TYPE
- ELEC. JUNCTION BOX
- DATA JUNCTION BOX
- PHONE/DATA OUTLET RUN 1/2" EMPTY CONDUIT WITH PULL STRING FROM EACH OUTLET TO TTB
- TTB- TEL. TERMINAL BOARD
VERIFY AND COORDINATE LOCATION AND ROUTING IN FIELD
- SOLID LINE INDICATES EQUIPMENT ON COMMON CIRCUIT AND/OR CONTROLLED BY COMMON SWITCH. EACH CIRCUIT SHALL CONSIST OF A PHASE CONDUCTOR, NEUTRAL AND GROUND CONDUCTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY SWITCH LEGS IN CONDUIT TO ACHIEVE SWITCHING INDICATED ON PLANS. ELECTRICAL CONTRACTOR MAY COMBINE CIRCUITS INTO A COMMON HOMERUN CONSISTING OF A COMMON NEUTRAL AND GROUND CONDUCTOR AND THREE (3) PHASE CONDUCTORS (A, B, AND C PHASE).
- DOTTED LINE INDICATES EQUIPMENT ON A COMMON CIRCUIT BUT NOT CONTROLLED ON SAME SWITCH DEVICE.
- S SINGLE POLE SWITCH
- So DIMMER SWITCH
- S3 3-WAY SWITCH
- Occupancy Sensor Switch - WALL MOUNTED
- Occupancy Sensor Device - CEILING MOUNTED
- EF EXHAUST FAN WITH DISC. SW.
- DUPLX OUTLET
- GFI GROUND FAULT OUTLET
- QUAD OUTLET
- CEILING/OVERHEAD MOUNTED RECEPTACLE
- DUPLX RECEPTACLE ABOVE COUNTER
- TV OUTLET



(B) LIGHTING CONTROL SCHEMATIC DIAGRAM
(E-1) NOT TO SCALE

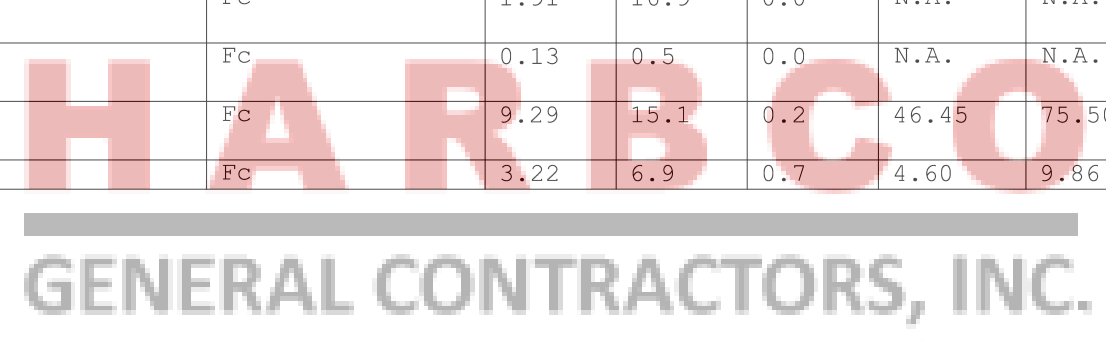
GENERAL ELECTRICAL NOTES:

- 1. ALL SITE LIGHTING SHOWN SHALL BE COORDINATED WITH THE CIVIL DRAWINGS. THE CONTRACTOR SHALL COORDINATE HIS WORK AS NECESSARY TO WIRE ALL FIXTURES AS NEEDED FOR A COMPLETE AND OPERABLE SYSTEM.
- 2. NEW INCOMING ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE CIVIL DRAWINGS. THE CONTRACTOR SHALL COORDINATE ALL NEW ELECTRICAL SERVICE WORK AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM AS SHOWN HEREIN. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION REQUIREMENTS.

Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts	[MANUFAC]	Mounting Height
⊙	8	B	Single	PAR-FYCH5-12L-020-4K7-44A-BLT-UNV	0.950	2003	21.73	173.84	KIM LIGHTING	3.5
⊙	8	DL	Single	LFR 10L 40K 8 MD DM1 / LFR-GRD-T MD S	0.950	1022	7.3	58.4	PRESCOLITE	12
□	1	SL3	Single	VP-1-160L-160-4K7-3-UNV-A34-BLT/VALMONT 240840605TE-D1-DBL-HH	0.950	22892	157.8	157.8	HUBBELL OUTDOOR	25
□	2	SL3-BC	Single	VP-1-160L-160-4K7-3-UNV-A34-BLT-BC/VALMONT 240840605TE-D1-DBL-HH	0.950	14618	133.3	266.6	HUBBELL OUTDOOR	25
□	1	SL4	Single	VP-1-160L-160-4K7-4W-UNV-A34-BLT/VALMONT 240840605TE-D1-DBL-HH	0.950	22468	157.8	157.8	HUBBELL OUTDOOR	25
□	1	SL4-BC	Single	VP-1-160L-160-4K7-4W-UNV-A34-BLT-BC/VALMONT 240840605TE-D1-DBL-HH	0.950	13034	133.3	133.3	HUBBELL OUTDOOR	25
⊞	2	WP4	Single	RWL1-48L-45-4K7-4W-UNV-BLT	0.950	5704	46.5	93	HUBBELL OUTDOOR	12

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Dental Clinic	Illuminance	Fc	1.91	16.9	0.0	N.A.	N.A.
Property Line	Illuminance	Fc	0.13	0.5	0.0	N.A.	N.A.
West Sidewalk	Illuminance	Fc	9.29	15.1	0.2	46.45	75.50
Parking Lot	Illuminance	Fc	3.22	6.9	0.7	4.60	9.86

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance (Fc)		3.22	6.9	0.7	4.60	9.86



Mohamed Ghazall
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PROJECT
New Dental Clinic for Dr. Majid Heydari
1403 Cleveland Ave
Wildwood Florida

REVISION	DATE
1	08/15/2022

DATE	PERMIT SET
	08/15/2022

SHEET TITLE

SHEET NUMBER
E-1

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

PROJECT NO.
2214

MOHAMED GHAZALL, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 46169, THESE DRAWINGS HAVE BEEN ELECTRONICALLY SIGNED AND SEALED BY MOHAMED GHAZALL, P.E. ON 09/06/2022 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED STORED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BEACON design performance technology

DATE: 08/30/22 LOCATION: WILDWOOD, FL
 TYPE: SL3 PROJECT: DENTAL CLINIC
 CATALOG # VP-160L-160-4K7-3-UNV-AA-BL-T VALMONT 240840601E-D-BL-HH

VIPER Area/Site

VIPER LUMINAIRE

FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 15G
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™, w/SCAPE and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE™ w/SCAPE™

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (60, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (6, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting hardware for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles.
- All mounting hardware included

INSTALLATION (CONTINUED)

- Krocodile arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater than 20ft, a vibration damper is recommended
- w/SCAPE™ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI IEEE C62.41.2 Category C High and Surge Location Category C3. Automatically takes future off-line for protection when device is compromised

CONTROLS (CONTINUED)

- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor
- w/SCAPE™ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

CERTIFICATIONS

- Meets the qualifications for DLC Premium
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets ICA recommendations for 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy America-Construction Materials under Trade Agreements effective 04/23/2020. See Buy American Solutions.

WARRANTY

- 5 year warranty
- See HLI Commercial and Industrial Outdoor Lighting Warranty for additional information

KEY DATA

Lumen Range	5,000-80,000
Wattage Range	36-600
Efficacy Range (LPW)	92-155
Weight lbs. (kg)	13.7-30.9 (6.2-13.9)

Page 113 Rev 01/22/22 BEA-VIPER-SPEC © 2022 Beacon Products, a division of Hubbell Lighting, Inc. Specifications subject to change without notice. 701 Millennium Blvd • Greenville, SC 29607 | Tel: 864.678.1000 | Website: www.beaconproducts.com

BEACON design performance technology

DATE: 08/30/22 LOCATION: WILDWOOD, FL
 TYPE: SL4-BC PROJECT: DENTAL CLINIC
 CATALOG # VP-160L-160-4K7-4W-UNV-AA-BL-BC VALMONT 240840601E-D-BL-HH

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- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI IEEE C62.41.2 Category C High and Surge Location Category C3. Automatically takes future off-line for protection when device is compromised

CONTROLS (CONTINUED)

- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor
- w/SCAPE™ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

CERTIFICATIONS

- Meets the qualifications for DLC Premium
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets ICA recommendations for 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy America-Construction Materials under Trade Agreements effective 04/23/2020. See Buy American Solutions.

WARRANTY

- 5 year warranty
- See HLI Commercial and Industrial Outdoor Lighting Warranty for additional information

KEY DATA

Lumen Range	5,000-80,000
Wattage Range	36-600
Efficacy Range (LPW)	92-155
Weight lbs. (kg)	13.7-30.9 (6.2-13.9)

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KIM LIGHTING

DATE: 08/30/22 LOCATION: WILDWOOD, FL
 TYPE: B PROJECT: DENTAL CLINIC
 CATALOG # PA7R-FTCH5-12L-020-4K7-44A-BL-T-UNV

PA7R BOLLARD

FEATURES

- IDA Dark Sky Compliant, No up-light configuration
- Elegant form factor blended with Performance Optics
- Integral NEMA 3R Enclosure
- Dual receptacle power panel
- PA System capability
- Bluetooth® enabled RGBW accent

CONTROL TECHNOLOGY

Bluetooth™ DMX SiteSense™ pharos

SPECIFICATIONS

CONSTRUCTION

- LEDs: Castings are low copper aluminum alloy die-cast
- Gaskets are molded silicone to prevent harmful ingress to the lamp and driver compartments
- IP65 rated

SHAFT

- Aluminum shaft(s) is 125" thick extruded aluminum 6061 alloy
- Concrete shaft(s) conforms to current specifications for "Portland Cement" ASTM C150, Type I or II. Aggregates shall meet current requirements of "Specifications for Concrete Aggregates," ASTM C33. Water shall be clean and free from deleterious amounts of salt, oil, acids, alkalies or organic materials. Wire for reinforcement shall conform to ASTM A195. Steel for lugs and plates shall conform to ASTM A36, or A283 grade D
- Concrete shaft(s) is medium sand-blasted with anti-graffiti sealer and material color shall be integral to the concrete mix
- Concrete shaft(s) is cured to allow for completion of the hydration process, and result in a 28 day compressive strength of not less than 4,500 psi
- Concrete shaft(s) is cast from fibreglass molds used to insure uniform parts. Mold parting lines may be slightly visible in finished parts

OPTICS

- MOUNT points to a metal printed circuit board assembly (MCPCB)
- Optical lenses are clear injection molded PMMA acrylic
- UD configurations have an optically clear flat tempered glass lens, all other configurations have either an optically clear or high transmission diffused acrylic lens

INSTALLATION

- Aluminum shaft configurations will have four 3/8" x 10" x 2" zinc plated L-hook anchor bolts shall be installed with an included template. Nuts and washers are provided to level and secure the mounting plate to the anchor bolts
- Aluminum shaft configurations will have a mounting plate and be able to be rotated 20° in either direction during installation for aiming adjustment
- Concrete shaft configurations will have four 1/2" x 10" x 2" zinc electroplated L-hook anchor bolts. Each anchor bolt is supplied with two nuts, two washers, and a rigid pressed board template
- Concrete shaft configurations are palletized with adequate hold-downs to prevent load movement in transit
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

KEY DATA

Lumen Range	397-2350
Wattage Range	14-22
Efficacy Range (LPW)	29-108
Reported Life (Hours)	170/60,000

(Specifications continued on page 3)

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prescolite

DATE: 9-6-22 LOCATION: Wildwood FL
 TYPE: DL PROJECT: Dental Office
 CATALOG # LFR 10L 40K 8 MD MI / LFR-6RD-T MD S

LFR-6RD LITEFRAME 6" ROUND DOWNLIGHT

FEATURES

- 6" LED downlight delivering 1000-8000 lumens
- Direct install from below ceiling for New Construction or Retrofit applications
- Optional housing accessories available
- Five beam distributions
- 2700K-5000K, 80+ and 90+ CRI (≥ 5DCM)
- Dimming protocols include 0-10V, Phase (Forward/Reverse), DALI, DMX, Lutron 2-wire Forward Phase, and EcoSystem
- NX Distributed Intelligence™ wired and wireless controls capability available

CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE™

SPECIFICATIONS

CONSTRUCTION

- Standard Fixture Module designed for Non-IC, Direct Install construction
- Die cast aluminum fixture module supports ring with spring steel clips for secure mounting to ceiling
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Driver J-Box can be installed and driven through from above the ceiling as direct install or easily snap on to optional housing frame/enclosure
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- High purity spun aluminum reflector, self-flanged
- 67° visual cutoff to source image and 31° cutoff to source
- Specular or Semi-Specular anodized and Painted Range options in White or Black
- Optional clear lens trim for wet location applications
- Wide Angle and Soft Focus lens filter/cup accessories available

ELECTRICAL

- Chip-on-board LED with 25DCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: 100k+ at 50,000 hours (TM-2)
- Universal voltage: 120-277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker-free dimming options in a wide range of protocols from 1% to >0.1% performance
- 0-10V, Phase (Forward/Reverse), DALI, DMX, Lutron 2-wire Forward Phase, and EcoSystem options
- Integral and remote emergency battery options available

INSTALLATION

- Accommodates ceiling thickness from 0.50" to 2.50"
- Fixture Module including driver fully accessible from above or below the ceiling
- 10L-15L Fixture Modules are inherently protected IC without the use of IC housing enclosure (IC housing is still recommended when using loose-fill or spray foam insulation types)

KEY DATA

Lumen Range	1000-8000
Wattage Range	8-71
Efficacy Range (LPW)	118-139
Reported Life (Hours)	150k / 150,000
Input Current (mA)	66-592 (200V)

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valmont STRUCTURES ALUMINUM

DATE: 9-6-22 LOCATION: Wildwood FL
 TYPE: WP4 PROJECT: Dental Office
 CATALOG # RWL1-48L-45-4K7-4W-UNV-BLT

RATIO Wall RWL1/RWL2 LED WALLPACK

FEATURES

- Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount
- Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™, w/SCAPE and 7-Pin with networked controls
- Battery Backup options available for emergency code compliance
- Quick-mount adapter allows easy installation/maintenance
- 347V and 480V versions for industrial applications and Canada
- Stock versions available in 3500lm and 5500lm configurations at 4000K

CONTROL TECHNOLOGY

SiteSense™ NX DISTRIBUTED INTELLIGENCE™ w/SCAPE™

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating.
- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 48 or 160 mid-power LEDs
- 3000K, 4000K or 5000K (70 CRI/80 CRI) CCT
- Integral and remote emergency battery options available
- LED optics provide IES Type II, III and IV distributions. Type II only available in RWL2 configurations.

OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 48 or 160 mid-power LEDs
- 3000K, 4000K or 5000K (70 CRI/80 CRI) CCT
- Integral and remote emergency battery options available
- LED optics provide IES Type II, III and IV distributions. Type II only available in RWL2 configurations.

INSTALLATION

- Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box)
- Designed for direct box mount
- Integral back box contains 1/2" conduit hubs
- Integral back box standard with Dual Driver, Dual Power Feed, NX w/SCAPE and battery versions (battery versions for RWL1 only)

ELECTRICAL

- 120V-277V universal voltage 50/60Hz 0-10V dimming drivers
- 347V and 480V dimmable driver option for all wattages above 35W

CONTROL (CONTINUED)

- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% Total Harmonic Distortion
- Driver RoHS and IP66
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3. Automatically takes future off-line for protection when device is compromised
- Dimming drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than 6" standard.
- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- Button photocontrol is suitable for 120-277V operation
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor
- w/SCAPE™ available with in fixture wireless control module, features dimming and occupancy sensor
- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress
- Battery Backup suitable for operating temperatures -25°C to 40°C. RWL1 battery is 12.5W RWL2 battery is 18W

WARRANTY

- 5 year warranty
- See HLI Standard Warranty for additional information

KEY DATA

Lumen Range	1,300-18,800
Wattage Range	10-155
Efficacy Range (LPW)	119-148
Fixture Projected Life (Hours)	170/60K
Weights lbs. (kg)	6.5/6.5 (2.97/5)

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PROJECT

New Dental Clinic for Dr. Majid Heydari
1403 Cleveland Ave Wildwood Florida

REVISION DATES

REVISION	DATE

DATE PERMIT SET 08/15/2022

SHEET TITLE

SHEET NUMBER

E-2
SCALE: 1/4" = 1'-0"

PROJECT NO. 2214

MOHAMED GHAZALI, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 46169. THESE DRAWINGS HAVE BEEN ELECTRONICALLY SIGNED AND SEALED BY MOHAMED GHAZALI, P.E. ON 09/06/2022 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REVISION	DATE

DATE	
PERMIT SET	08/15/2022

LIGHTING FIXTURE SCHEDULE								
LEGEND	Lamp Data		Fixture Description	Fixture Data		Mount		
	No.	Type		Manufacturer	Catalog Number		Voltage	
	W/	LED	2'x2' RECESSED LED	DAY-BRITE	2-FGX G--38B-830-2-FS-UNV-DIM	RECESS	120	7
	W/	LED	2'x4' RECESSED LED	DAY-BRITE	2-FGX G--42B-940-4-FS-UNV-DIM	RECESS	120	
	W/	LED	LED DOWNLIGHT	LIGHTOLIER	4-R-N--P4R-DL-25-830-CD--Z10-U	RECESS	120	4
	W/	LED	2.5" LED DOWNLIGHT	LITON	LRLD2521-W-W-L09-B60--UE-DUN--	RECESS	120	
	W/	LED	2.5" LED DOWNLIGHT WALL WASHER	LITON	LRLD2571-W-W-L09-B60--UE-DUN--	RECESS	120	
	W/	LED	2'X2' LED SURFACE MTD.	DAY-BRITE	2-SML-30L-830-2-FS-02F-UNV-DIM	SURF	120	
	W/	LED	10" ROUND SURFACE MTD LIGHT	LIGHTOLIER	S10R-830K-22--Z10U	SURF	120	
	W/	LED	LED TAPE LIGHT-VERIFY LENGTH	KELVIX	RX-30K-500-HW240-120-PLASTIC MTG. BASE	U. CAB	120	
	W/	LED	LED UNDER UPPER CAB. LIGHT	KELVIX W/ END FEED	CH502A-2-FR-CP-EC-UNIV-WL-1-500-30K-24V-NA	U. CAB.	120	
	W/	LED	FLOOR MTD. UP LIGHT	HUBBELL	RFL4-FL (FINISH)	---	120	9
	W/	LED	DECO-PICTURE LIGHT	TECH LIGHTING	700DES-24-NB-LED930	WALL	120	4,8
	W/	LED	DECO CHANDELIER	TECH LIGHTING	700LNG-12A-NB-LED930	PEND	120	8
	W/	LED	DECO PENDANT LIGHT	TECH LIGHTING	700TDJN-R-LED930	PEND	120	8
	W/	LED	BACK LIT MIRROR	PARIS MIRROR	ORIGX60363000-3000-120V	WALL	120	8
	W/	LED	DECP CIR. CHANDELIER W/ SHADE	LITE TOPS	PD-6790-120-01-24DR-MBK-LEDMOD3000K	PEND	120	8
	W/	LED	DECO CIR. CHANDELIER	TECH LIGHTING	700VLV-36-NB-LED922	PEND	120	8
	W/	LED	DECO-UP-DN-WALL MTD.	TECH LIGHTING	700BCLNG-2-NB-LED930-INSTALLED VERTICALLY	WALL	120	4,8
	W/	LED	DECO-WALL MTD. VANITY LIGHT	TECH LIGHTING	700BCLNG-24-NB-LED930	WALL	120	8
	W/	UNIT	LED EMERGENCY EXIT SIGN	CHLORIDE	CN-6-GC-A-10R2--IC	UNIV	120	1,3,5
	W/	UNIT	EMERGENCY BATTERY LIGHTING UNIT	COMPASS	CU2	UNIV	120	1,2,3,5

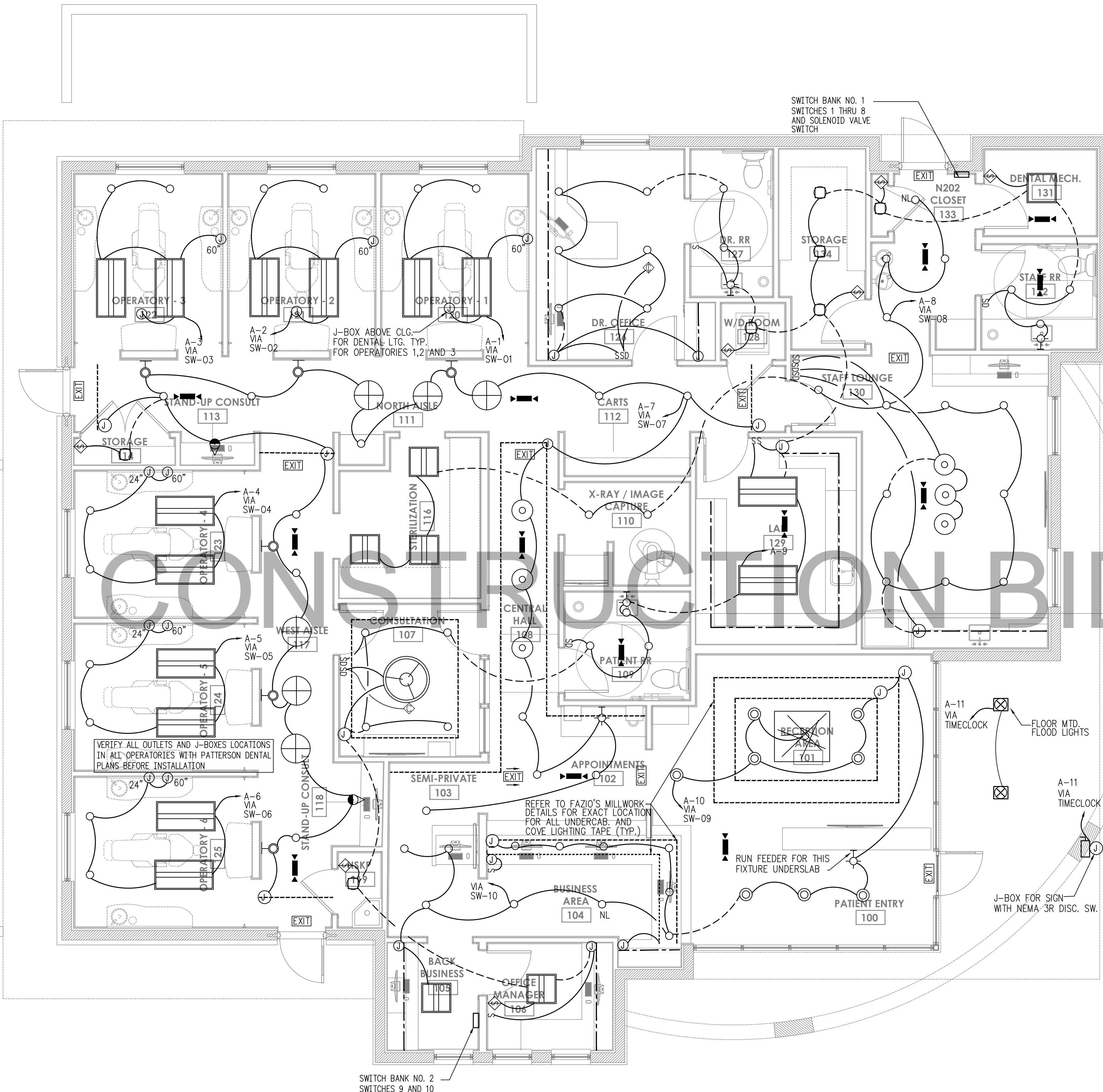
GENERAL LIGHTING FIXTURE NOTES:

- CONTRACTOR SHALL COORDINATE FIXTURE MOUNTING WITH ARCHITECTURAL REFLECTED CEILING PLAN(S) AND SHALL PROVIDE FIXTURE MOUNTING AS REQUIRED TO MATCH CEILING TYPE.
- SEE SITE LIGHTING LUMINAIRE SCHEDULE FOR ADDITIONAL SITE LIGHTING FIXTURES THAT MAY BE REQUIRED.

LIGHTING FIXTURE SCHEDULE NOTES:

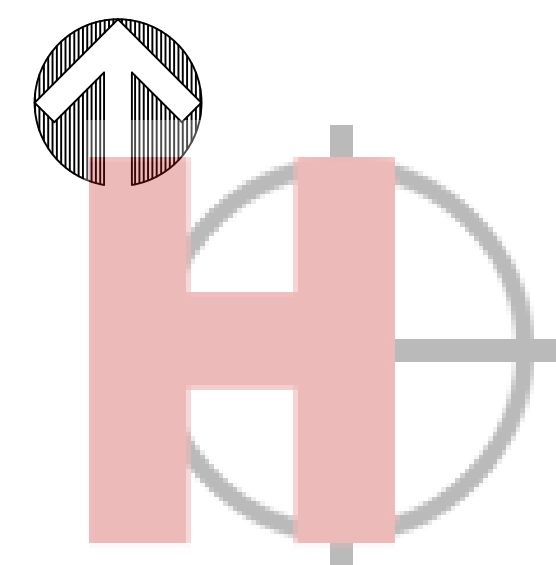
- FIXTURES SHALL BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACK-UP.
- FIXTURES SHALL BE WALL MOUNTED AT 7'-6" AFF. OR CEILING MTD AS SHOWN
- FIXTURES WITH INTEGRAL EMERGENCY BATTERY BACK-UP SHALL BE WIRED IN ACCORDANCE WITH NEC ARTICLE 700. EMERGENCY FIXTURE SHALL BE CONNECTED TO CONSTANT NORMAL ROOM LIGHTING BRANCH CIRCUIT OF AREA SERVED (i.e., LOAD SIDE OF BREAKER, LINE SIDE OF ANY SWITCHING/CONTROLLING DEVICES).
- REFER TO ARCHITECTURAL ELEVATION FOR MOUNTING HEIGHT
- EXIT AND EMERGENCY LIGHT FIXTURES COULD BE COMBINED IN ONE FIXTURE CAT. NO. "CCR". CONSULT W/ OWNER
- FIXTURE COLOR COULD BE CHANGED AND AS SELECTED BY ARCHITECT AND OWNER.
- FIXTURE "NL" DENOTES NIGHT LIGHT POWRED AHEAD OF ANY SWITCHING
- REFER TO I-SERIES SHEETS FOR ADDITIONAL INFO. (REP. CONTACTS AND PROJECT QUOTES FOR ALL DECO. LTG.)
- COORDINATE WITH LANDSCAPE ARCHITECT

NOTE: SUBMIT LIGHTING FIXTURE CUT SHEETS TO OWNER FOR APPROVAL PRIOR TO PLACING FIXTURE ORDER.



LIGHTING PLAN

SCALE 1/4" = 1'-0"



HARBSCO
GENERAL CONTRACTORS, INC.

Mohamed Ghazall
Digitally signed by Mohamed Ghazall
Date: 2022.09.19 11:36:25 -04'00'

MOHAMED GHAZALL, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 46169
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PANEL "A"

VOLTAGE: 208Y/120V, 3PH, 4W
BUS RATING: 150 AMPS
BUS RATING: 150 AMPS

MAINS: 150A MLO
MOUNTING: TUB PANEL
SEE PLANS: 42 CKTS. EA TUB
110 AMP LOAD AIC = 22,000

REMARKS: SINGLE
TUB PANEL
42 CKTS. EA TUB
AIC = 22,000

NOTES: "H" INDICATES HACR RATED BREAKER.
"N" INDICATES NON-CONCURRENT A/C LOAD.
SIZES BASED ON LARGEST LOAD.
"G" INDICATES GFI BREAKER.
"C" INDICATES ASSUMED DATA.

LOAD SERVED	LOADS (WATTS)				C N K O	PHASE	C N K O	C N K O	C N K O	LOADS (WATTS)				LOAD SERVED		
	LTG	RCPTS	MOTOR	HEAT						AMP/P	HEAT	MOTOR	RCPTS		LTG	
LTG. OPER. NO. 1	840				20/1	1	-	-	2	20/1				840	LTG. OPER. NO. 2	
LTG. OPER. NO. 3	840				20/1	3	-	-	4	20/1				840	LTG. OPER. NO. 2	
LTG. OPER. NO. 5	500				20/1	5	-	-	6	20/1				500	LTG. OPER. NO. 2	
LTG. CORRIDOR	900				20/1	7	-	-	8	20/1				500	LTG. LOUNG-LAB-TLT-CONSULT	
LTG. OFF-STOR-TLT-XRAY-STER BLDG. SIGN	1000				20/1	9	-	-	10	20/1				900	LTG. REC. OFF-BUSS. ENTRY SITE LIGHTING	
PARKING LOT CAR CHARGER			1200		20/1	13	-	-	14	20/1				1680	DENTAL CHAIR RM 5 AND 6	
OPER. NO. 3 UTIL. CAB.	1600				20/1	15	-	-	16	20/1				1600	OPER. NO. 6 UTIL. CAB	
OPER. NO. 3 ASSIST. WALL	1600				20/1	17	-	-	18	20/1				1600	OPER. NO. 6 ASSIST. WALL	
OPER. NO. 3 X-RAY	1200				20/1	19	-	-	20	20/1				1200	OPER. NO. 6 X-RAY	
OPER. NO. 3 DR. WALL	1600				20/1	21	-	-	22	20/1				1600	OPER. NO. 6 DR. WALL	
OPER. NO. 2 UTIL. CAB.	1600				20/1	23	-	-	24	20/1				1600	OPER. NO. 5 UTIL. CAB.	
OPER. NO. 2 ASSIST. WALL	1600				20/1	25	-	-	26	20/1				1600	OPER. NO. 5 ASSIST. WALL	
OPER. NO. 2 X-RAY	1200				20/1	27	-	-	28	20/1				1200	OPER. NO. 5 X-RAY	
OPER. NO. 2 DR. WALL	1600				20/1	29	-	-	30	20/1				1600	OPER. NO. 5 DR. WALL	
OPER. NO. 1 UTIL. CAB.	1600				20/1	31	-	-	32	20/1				1680	DENTAL CHAIR RM 3 AND 4	
OPER. NO. 1 ASSIST. WALL	1600				20/1	33	-	-	34	20/1				1600	OPER. NO. 4 UTIL. CAB	
OPER. NO. 1 X-RAY	1200				20/1	35	-	-	36	20/1				1600	OPER. NO. 4 ASSIST. WALL	
OPER. NO. 1 DR. CAB.	1600				20/1	37	-	-	38	20/1				1600	OPER. NO. 4 DR. WALL	
BLDG. LIGHT	500				20/1	40	-	-	40	20/1				1680	DENTAL CHAIR RM. NO. 1 AND 2	
BLDG. LIGHT	1200				20/1	41	-	-	42	20/1				600	EXHAUST FANS	
LTG	6980													22440		
RCPTS	19200													4140		
MOTOR	0													0		
HEAT	0													0		
SUB TOTALS				SUB TOTALS				SUB TOTALS				SUB TOTALS				
LTG	6980	19200	0	0	11.1	41.6	0.0	0.0	0.0	11.1	41.6	0.0	0.0	0.0	CONNECTED KW TOTALS	
RCPTS	14960	0	0	0	1.25	25.8	1.00	1.00	1.25	25.8	1.00	1.00	1.00	0.0	DEMAND	
MOTOR	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ADJUSTED KW TOTALS	
HEAT	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TOTAL CONNECTED KW	
PHASE A				PHASE B				PHASE C				TOTAL PANEL				
LTG	3740	13680	0	0	0	0	0	0	0	0	0	0	0	0	53	TOTAL CONNECTED KW
RCPTS	4300	13000	0	0	0	0	0	0	0	0	0	0	0	0	39.7	TOTAL ADJUSTED KW
MOTOR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208	THREE PHASE VOLTAGE
HEAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	AMPERAGE:

PHASE TOTALS: A 18040, B 17420, C 17300, 3 PH. VOLTS: 208
COORDINATE EXACT LOCATION WITH ALL EQUIP. FURNISHED BEFORE WIRING WITH PATTERSON DENTAL AND OWNER

PANEL "B"

VOLTAGE: 208Y/120V, 3PH, 4W
BUS RATING: 150 AMPS
BUS RATING: 150 AMPS

MAINS: 150A MLO
MOUNTING: TUB PANEL
SEE PLANS: 42 CKTS. EA TUB
73 AMP LOAD AIC = 22,000

REMARKS: SINGLE
TUB PANEL
42 CKTS. EA TUB
AIC = 22,000

NOTES: "H" INDICATES HACR RATED BREAKER.
"N" INDICATES NON-CONCURRENT A/C LOAD.
SIZES BASED ON LARGEST LOAD.
"G" INDICATES GFI BREAKER.
"C" INDICATES ASSUMED DATA.

LOAD SERVED	LOADS (WATTS)				C N K O	PHASE	C N K O	C N K O	C N K O	LOADS (WATTS)				LOAD SERVED		
	LTG	RCPTS	MOTOR	HEAT						AMP/P	HEAT	MOTOR	RCPTS		LTG	
RECEPT. OFFICE MGR.	900				20/1	1	-	-	2	20/1				900	UC REC. DR. OFFICE	
RECEPT. BUS. AREA	1080				20/1	3	-	-	4	20/1				1080	RECEPT. LOUNGE, DR. OFF	
RECEPT. BUS. AREA, CORR.	1080				20/1	5	-	-	6	20/1				1200	RECEPT. WASH. PLUG MOLD IN LAB	
RECEPT. CONSULT. CORR.	1080				20/1	7	-	-	8	20/1				1400	RECEPT. WASH. PLUG MOLD IN LAB	
STERILIZER	1000				20/1	9	-	-	10	20/1				1400	RECEPT. ITB	
STERILIZER	1000				20/1	11	-	-	12	20/1				1000	RECEPT. SERVER	
STERILIZER	1300				20/1	13	-	-	14	20/1				1000	RECEPT. SERVER	
STERILIZATION CAB.	1200				20/1	15	-	-	16	20/1				1000	RECEPT. SERVER	
ULTRASONIC CLEANER	1200				20/1	17	-	-	18	20/1				1000	RECEPT. SERVER	
HANDPIECE MAINT. STER. RM.	900				20/1	19	-	-	20	20/1				400	RECEPT. MEDGAS EQUIP.	
RECEPT. STAND UP CONSULT	900				20/1	21	-	-	22	20/1				500	FUTURE EWC	
RECEPT. COUNTER	1300				20/1	23	-	-	24	20/1				800	RECEPT. REF. LOUNGE	
RECEPT. DR. OFFICE	720				20/1	25	-	-	26	20/1				1400	RECEPT. DISHWASHER	
RECEPT. DR. OFFICE	900				20/1	27	-	-	28	20/1				800	RECEPT. SINK DISPOSAL	
GFI RECEPT. TLT. CU'S	900				20/1	29	-	-	30	20/1				1200	RECEPT. COUNTER LOUNGE	
SOLENOID VALVE	380				20/1	31	-	-	32	20/1				200	RECEPT. COUNTER LOUNGE	
X-RAY PAN 3D	1680				20/2	33	-	-	34	20/1				1200	RECEPT. COUNTER LOUNGE	
MODEL TRIMMER	1680				20/1	35	-	-	36	20/1				720	RECEPT. LOUNGE FLOOR, TV	
RECEPT. LAB. CAB.	1600				20/1	37	-	-	38	20/1				1680	RECEPT. RECEPTION CEILING RECEPT.	
RECEPT. DENTAL VAC. IN LAB	1400				20/1	41	-	-	42	20/1				200	TIME CLOCK	
LTG	0	24020	0	0										18780		
RCPTS	0	0	0	0										0		
MOTOR	0	0	0	0										0		
HEAT	0	0	0	0										0		
SUB TOTALS				SUB TOTALS				SUB TOTALS				SUB TOTALS				
LTG	0	13580	0	0	0.0	42.8	0.0	0.0	0.0	0.0	42.8	0.0	0.0	0.0	CONNECTED KW TOTALS	
RCPTS	0	13540	0	0	1.25	26.4	1.00	1.00	1.25	26.4	1.00	1.00	1.00	0.0	DEMAND	
MOTOR	0	13880	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ADJUSTED KW TOTALS	
HEAT	0	13880	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TOTAL CONNECTED KW	
PHASE A				PHASE B				PHASE C				TOTAL PANEL				
LTG	0	13580	0	0	0	0	0	0	0	0	0	0	0	0	4.3	TOTAL CONNECTED KW
RCPTS	0	13540	0	0	0	0	0	0	0	0	0	0	0	0	26.4	TOTAL ADJUSTED KW
MOTOR	0	13880	0	0	0	0	0	0	0	0	0	0	0	0	208	THREE PHASE VOLTAGE
HEAT	0	13880	0	0	0	0	0	0	0	0	0	0	0	0	73	AMPERAGE:

PHASE TOTALS: A 13580, B 13540, C 13880, 3 PH. VOLTS: 208
COORDINATE EXACT LOCATION WITH ALL EQUIP. FURNISHED BEFORE WIRING WITH PATTERSON DENTAL AND OWNER

PANEL "M"

VOLTAGE: 208Y/120V, 3PH, 4W
BUS RATING: 400 AMPS
BUS RATING: 400 AMPS

MAINS: 400A MLO
MOUNTING: TUB PANEL
SEE PLANS: 42 CKTS. EA TUB
318 AMP LOAD AIC = 22,000

REMARKS: SINGLE
TUB PANEL
42 CKTS. EA TUB
AIC = 22,000

NOTES: "H" INDICATES HACR RATED BREAKER.
"N" INDICATES NON-CONCURRENT A/C LOAD.
SIZES BASED ON LARGEST LOAD.
"G" INDICATES GFI BREAKER.
"C" INDICATES ASSUMED DATA.

LOAD SERVED	LOADS (WATTS)				C N K O	PHASE	C N K O	C N K O	C N K O	LOADS (WATTS)				LOAD SERVED
	LTG	RCPTS	MOTOR	HEAT						AMP/P	HEAT	MOTOR	RCPTS	
PANEL "A"	3080	14960	0	0	150/3	1	-	-	2	50/3	3600	300		AHU-2 WITH HEATER
PANEL "B"	3740	13680	0	0	3	-	-	4	-	3600	300			CU-2
CLOTH DRYER	0	13580	0	0	11	-	-	12	-	3600	300			CU-1
EWH-1	0	13880	0	0	17	-	-	18	-	3600	300			
AIR COMPRESSOR	1880				19	-	-	20	35/3					
VAC MACHINE	1880				20/2	21	-	-	22	-				
FUTURE DUCTLESS A/C	2700				23	-	-	24	-					
FOR STORAGE ROOM	1500				25	-	-	26	50/3	3000				LIFT STATION
SPACE	34				27	-	-	28	-	3000				
SPACE	34				29	-	-	30	-	3000				
SPACE	37				31	-	-	32	-					
SPACE	39				33	-	-	34	-					
SPACE	41				35	-	-	36	-					
SPACE	37				37	-	-	38	-					
SPACE	39													

GENERAL PROJECT NOTES:

THE COMPLETE ELECTRICAL INSTALLATION SHALL COMPLY WITH NFPA 70-2017, NATIONAL ELECTRICAL CODE, AND FBC 2020, 7TH EDITION

EQUIPMENT/SYSTEM IDENTIFICATION

INSTALL ENGRAVED PLASTIC LAMINATE SIGN ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT. EXCEPT AS OTHERWISE INDICATED, PROVIDE SINGLE LINE OF TEXT, 1/2 INCH HIGH LETTERING ON 1-1/2 INCH HIGH SIGN (2 INCH HIGH WHERE 2 LINES ARE REQUIRED), WHITE LETTERING IN BLACK FIELD. PROVIDE TEXT MATCHING TERMINOLOGY AND NUMBERING OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS.

PROVIDE SIGNS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL WORK:

- MOTOR STARTERS.
- DISCONNECT SWITCHES.
- PANELBOARDS
- TRANSFORMERS

INSCRIPTIONS SHALL INDICATE THE DEVICE SERVED I.E. "PANEL LI", "HVAC UNIT #1", ETC.

UPDATE PANELBOARD DIRECTORIES TO ACCURATELY INDICATE NEW EQUIPMENT BEING SERVED AND EQUIPMENT BEING REMOVED.

TWO-SIDED TAPE AND DYNAMO TYPE ADHESIVES ARE NOT ACCEPTABLE.

ELECTRICAL DEMOLITION AND ALTERATIONS

THE EXISTING BUILDING IS TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL WORK THAT WILL INTERFERE WITH THE PRESENT OPERATION OF THE FACILITY WITH THE OWNER.

PROVIDE ALL CORING THAT IS REQUIRED FOR ELECTRICAL WORK. OBTAIN PRIOR APPROVAL FROM THE ARCHITECT/ENGINEER IF ANY CORING IS REQUIRED THROUGH STRUCTURAL MEMBERS.

ALL CONDUIT AND WIRING REQUIRED IN EXISTING CONSTRUCTION SHALL BE CONCEALED EXCEPT CONDUIT MAY BE RUN EXPOSED IN UNFINISHED ROOMS SUCH AS EQUIPMENT AND MECHANICAL ROOMS. PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK.

ELECTRICAL METALLIC TUBING (EMT)

FS WW-C-563, ANSI C80.3 AND UL 797.

MINIMUM CONDUIT SIZE 1/2 INCH.

ANSI C80.4, STEEL FITTINGS.

THREADED, INSULATED THROAT, GLAND COMPRESSION OR SET SCREW TYPE. RAIN AND CONCRETE TIGHT.

DIECAST FITTINGS ARE NOT ACCEPTABLE.

LIQUID-TIGHT FLEXIBLE CONDUIT

PROVIDE UL-LISTED LIQUID-TIGHT FLEXIBLE METAL CONDUIT. MINIMUM SIZE 1/2 INCH. PROVIDE CADMIUM PLATED MALLEABLE IRON FITTINGS WITH COMPRESSION TYPE STEEL FERRULE AND NEOPRENE GASKET SEALING RINGS. LIQUID TIGHT.

FLEXIBLE STEEL CONDUIT

UL-1 FORMED FROM CONTINUOUS LENGTH OF SPIRALLY WOUND, INTERLOCKED HOT-DIP GALVANIZED STEEL. MINIMUM SIZE 1/2 INCH. PROVIDE SQUEEZE TYPE, MALLEABLE IRON CADMIUM PLATED CONDUIT FITTINGS FOR USE WITH FLEXIBLE STEEL CONDUIT OF THREADED HINGE TYPE; THREADED; GROUNDING TYPE; INSULATED THROAT.

CONDUIT INSTALLATION

INSTALL CONDUIT AND TUBING PRODUCTS IN ACCORDANCE WITH NEC, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND APPLICABLE STANDARDS.

CONNECTIONS TO MOTORS AND EQUIPMENT SUBJECT TO VIBRATION:

FLEXIBLE STEEL CONDUIT NOT OVER 3 FEET LONG WHERE CONCEALED IN CABINET, OR WHERE EXPOSED IN MECHANICAL AND UTILITY AREAS AND NOT SUBJECTED TO MOISTURE, DIRT, AND FUMES.

LIQUID-TIGHT FLEXIBLE CONDUIT NOT OVER 3 FEET LONG WHERE EXPOSED IN FINISHED AREAS OR WHERE SUBJECT TO MOISTURE, DIRT, FLAMES, OIL, CORROSIVE ATMOSPHERE, EXPOSED OR CONCEALED. WITH CONNECTORS TO ASSURE A LIQUID-TIGHT, PERMANENTLY GROUNDED CONNECTION. LOCATE SO IT IS LEAST SUBJECT TO PHYSICAL ABUSE.

WIRE AND CABLE

ALL CONDUCTOR AND CONDUIT SIZES ARE BASED ON THE USE OF COPPER CONDUCTORS. ALL CONDUCTORS SHALL BE COPPER.

TYPE THHN/THWN, SINGLE CONDUCTOR, SIZE AS INDICATED ON DRAWINGS.

WIRE AND CABLE IDENTIFICATION

COLOR CODE CONDUCTOR INSULATION AS FOLLOWS:

CONDUCTOR	SYSTEM VOLTAGE 208Y/120	SYSTEM VOLTAGE 480Y/277V
PHASE A	BLACK	BROWN
PHASE B	RED	PURPLE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
GROUND	GREEN	GREEN W/ TRACER

IF EXISTING BUILDING CONDUCTOR COLOR CODING IS DIFFERENT THAN THAT INDICATED ABOVE, CONDUCTOR COLOR CODING SHALL MATCH EXISTING.

INSTALL LABEL TAGS ON WIRE AND CABLE IN JUNCTION BOXES, PULL BOXES, WIRINGWAYS, AND WIRING GUTTERS OF PANELS. TAGS SHALL IDENTIFY WIRE OR CABLE NUMBER AND/OR EQUIPMENT SERVED AS SHOWN ON DRAWINGS.

JUNCTION AND PULL BOXES

FABRICATE FROM CODE GAUGE GALVANIZED STEEL, WITH COVERS HELD IN PLACE BY CORROSION RESISTANT MACHINE SCREWS.

SIZE AS REQUIRED BY CODE FOR NUMBER OF CONDUITS AND CONDUCTORS ENTERING AND LEAVING BOX.

PROVIDE WITH WELDED SEAMS, WHERE APPLICABLE, AND EQUIP WITH CORROSION-RESISTANT NUTS, BOLTS, SCREWS, AND WASHERS.

INSTALLATION

INSTALL ELECTRICAL BOXES IN COMPLIANCE WITH NEC REQUIREMENTS, IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT THE BOXES SERVE THE INTENDED PURPOSES.

INSTALL KNOCKOUT CLOSURES TO CAP UNUSED KNOCKOUT HOLES WHERE BLANKS HAVE BEEN REMOVED.

LOCATE BOXES SO AS TO ASSURE ACCESSIBILITY OF ELECTRICAL WIRING.

SECURE BOXES RIGIDLY TO THE SUBSTRATE UPON WHICH THEY ARE BEING MOUNTED. DO NOT SUPPORT FROM CONDUIT.

GENERAL DUTY DISCONNECT SWITCHES

PROVIDE SURFACE MOUNTED, GENERAL DUTY TYPE SHEET STEEL ENCLOSED SAFETY SWITCHES, THAT ARE FUSIBLE OR NON-FUSIBLE, WITH VOLTAGE RATING FOR CIRCUIT, AMPERAGE, AND NUMBER OF POLES AS INDICATED ON DRAWINGS. SWITCHES SHALL BE QUICK MAKE, QUICK BREAK TYPE. CONSTRUCTED SO THAT SWITCH BLADES ARE VISIBLE IN "OFF" POSITION WITH DOOR OPEN. EQUIP WITH OPERATING HANDLE WHICH IS INTEGRAL PART OF ENCLOSURE BASE AND WHOSE OPERATING POSITION IS EASILY RECOGNIZABLE, AND IS CAPABLE OF BEING PADLOCKED IN "OFF" POSITION. SWITCHES SHALL HAVE A COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR WHEN THE HANDLE IS IN THE "ON" POSITION. CONSTRUCT CURRENT CARRYING PARTS OF HIGH CONDUCTIVITY COPPER, WITH SILVER-TUNGSTEN TYPE SWITCH CONTACTS. PROVIDE POSITIVE PRESSURE TYPE REINFORCED FUSE CLIPS FOR FUSIBLE SWITCHES. PROVIDE NEMA 1 OR 3R ENCLOSURE, AS REQUIRED, WITH STAMPED ENCLOSURE KNOCKOUTS. RMS SHORT CIRCUIT RATING SHALL BE 200,000 AMPS WITH R FUSES.

INSTALLATION

INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, APPLICABLE REQUIREMENTS OF NEC AND NECA'S "STANDARD OF INSTALLATION" AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES.

LOCATE DISCONNECT SWITCHES AS SHOWN OR CALLED OUT ON DRAWINGS AND AS REQUIRED BY NEC.

GROUNDING

GROUND ELECTRICAL SYSTEMS AND EQUIPMENT AS REQUIRED BY NEC.

INSTALL GROUNDING CONDUCTOR IN NONMETALLIC OR FLEXIBLE CONDUIT TO COMPLETE EQUIPMENT GROUND CONTINUITY.

INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC TABLE 250-95 IN ALL RACEWAYS.

BRANCH CIRCUITS

DO NOT USE WIRE SMALLER THAN NO. 12 AWG (UNLESS OTHERWISE NOTED) FOR BRANCH CIRCUIT WIRING, INCLUDING MOTOR CIRCUITS.

VOLTAGE DROP FOR BRANCH CIRCUITS AND FEEDER CIRCUIT COMBINED SHALL NOT EXCEED REQUIREMENTS OF NEC ARTICLE 215.

SIZE CONDUIT, OUTLET BOXES, AND OTHER RACEWAY SYSTEM COMPONENTS IN ACCORDANCE WITH NEC REQUIREMENTS AS MINIMUM.

MOTOR AND EQUIPMENT WIRING

FURNISH AND INSTALL MOTOR CIRCUITS IN ACCORDANCE WITH DRAWINGS AND CODE REQUIREMENTS, FROM SOURCE OF SUPPLY TO ASSOCIATED MOTOR STARTER, AND FROM STARTER TO MOTOR TERMINAL BOX, INCLUDING NECESSARY AND REQUIRED INTERMEDIATE CONNECTIONS.

CONDUCTOR AND CONDUIT SIZE FOR MOTOR BRANCH CIRCUITS, IF SHOWN ON DRAWINGS, ARE SIZED FOR MOTOR REQUIREMENT ONLY. CONTRACTOR MAY, AT HIS OPTION, INCLUDE ASSOCIATED CONTROL CONDUCTORS IN SAME CONDUIT PROVIDING THE CONDUIT SIZE IS ADJUSTED TO MEET CODE REQUIREMENTS FOR PERCENTAGE OF FILL.

MOTORS SHALL HAVE PROPER FEEDERS AS PER NEC AND NAMEPLATE RATINGS. VERIFY RATINGS OF MOTORS AND INSTALLING PROPER BRANCH CIRCUITS.

EQUIPMENT CONNECTIONS

OBTAIN MANUFACTURER'S WIRING DIAGRAMS OF ELECTRICAL EQUIPMENT FURNISHED WITH EQUIPMENT AND DO NOT PROCEED TO WIRE EQUIPMENT WITHOUT THIS INFORMATION.

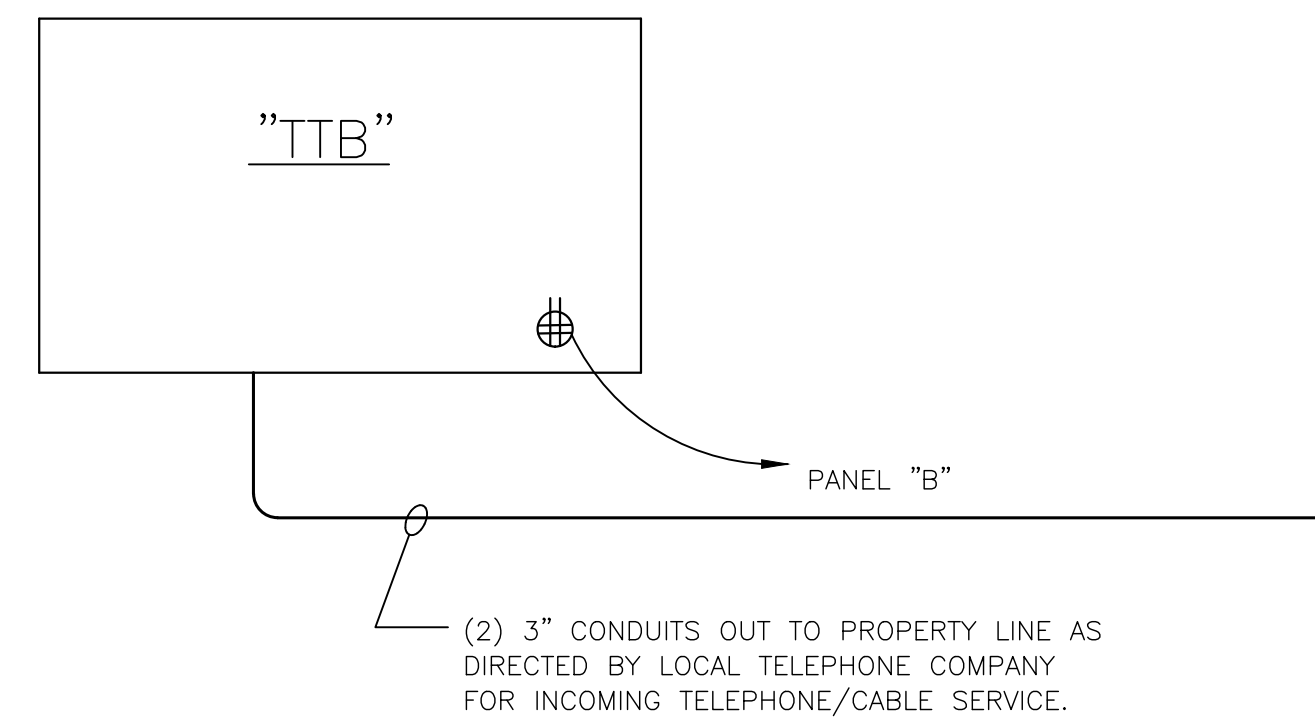
VERIFY ALL EQUIPMENT FEEDER SIZES, OVERCURRENT PROTECTION SIZES, ETC. RECOMMENDED BY EQUIPMENT MANUFACTURER BEFORE INSTALLING. MAKE EQUIPMENT CONNECTIONS WITH FLEXIBLE CONDUIT OR LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT. PROPERLY GROUND NON-CURRENT CARRYING METAL PARTS OF EQUIPMENT.

COORDINATE WORK WITH THE OTHER TRADES SUCH THAT THE OPERATION OF MECHANICAL EQUIPMENT WILL BE AS DESCRIBED IN MECHANICAL SPECIFICATIONS.

CHECK DRAWINGS AND SPECIFICATIONS OF OTHER DIVISIONS OF WORK FOR EQUIPMENT AND WORK WHICH MUST BE INCLUDED WHETHER OR NOT SHOWN ON ELECTRICAL DRAWINGS, IN ORDER TO PROVIDE A COMPLETE ELECTRICAL INSTALLATION.

UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN SPECIFICATIONS, EQUIPMENT SHALL BE FURNISHED, SET IN PLACE, AND CONNECTED AS NECESSARY AND PREPARED FOR OPERATION AS SPECIFIED IN OTHER SECTIONS. PROVIDE FINAL CONNECTION AND PROPER DISCONNECTING MEANS SHALL BE PROVIDED.

MOTOR CONNECTIONS SHALL BE MADE BY SPLIT-BOLT TYPE CONNECTORS USING PROPER TOOLS AND FITTINGS TO ASSURE GOOD ELECTRICAL CONTINUITY AND LOW RESISTANCE JOINT.



TELEPHONE COORDINATION NOTE:

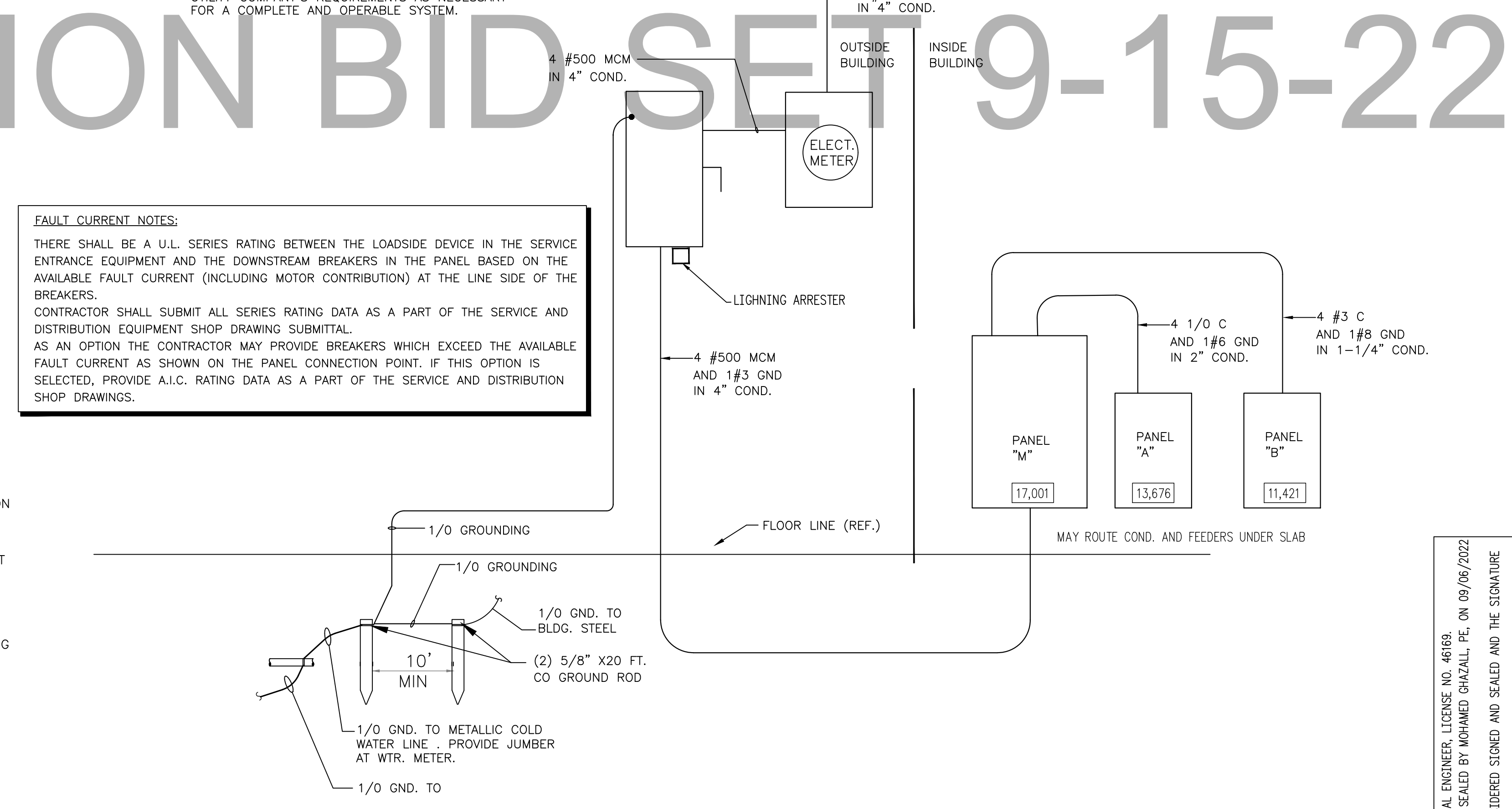
CONTRACTOR SHALL CONTACT TELEPHONE COMPANY PERSONNEL AS NECESSARY FOR NEW SERVICES COORDINATION. CONTRACTOR SHALL OBTAIN TELEPHONE CO. REQUIREMENTS AND BE RESPONSIBLE FOR ALL WORK NECESSARY TO INSTALL NEW TELEPHONE SERVICES.

CONTRACTOR SHALL COORDINATE COMPLETE LAYOUT AND LOCATIONS OF TELEPHONE COMPANY SERVICE PEDESTALS WITH LOCAL TELEPHONE COMPANY AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR SHALL PROVIDE ALL INFORMATION REQUIRED BY THE TELEPHONE COMPANY, INCLUDING ADDRESS(ES) AND LEGAL DESCRIPTIONS, FOR THE TELEPHONE COMPANY'S EASEMENT PROCUREMENT NEEDS. TELEPHONE PEDESTAL LOCATIONS AND QUANTITIES AS DETERMINED BY LOCAL TELEPHONE COMPANY. CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATIONS AND QUANTITIES OF ALL SERVICE PEDESTALS WITH LOCAL TELEPHONE COMPANY PRIOR TO INSTALLATION OF TELEPHONE SERVICE CONDUCTORS.

POWER RISER NOTES:

A. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT LOCAL POWER COMPANY AND COORDINATE ALL NEW WORK WITH LOCAL UTILITY AND THE UTILITY COMPANY'S REQUIREMENTS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.

UTILITY COMPANY TRANSFORMER COORDINATE EXACT LOCATION WITH POWER COMPANY IN FIELD. 208Y/120V, 3Ø, 4W



FAULT CURRENT NOTES:
THERE SHALL BE A U.L. SERIES RATING BETWEEN THE LOADSIDE DEVICE IN THE SERVICE ENTRANCE EQUIPMENT AND THE DOWNSTREAM BREAKERS IN THE PANEL BASED ON THE AVAILABLE FAULT CURRENT (INCLUDING MOTOR CONTRIBUTION) AT THE LINE SIDE OF THE BREAKERS. CONTRACTOR SHALL SUBMIT ALL SERIES RATING DATA AS A PART OF THE SERVICE AND DISTRIBUTION EQUIPMENT SHOP DRAWING SUBMITTAL. AS AN OPTION THE CONTRACTOR MAY PROVIDE BREAKERS WHICH EXCEED THE AVAILABLE FAULT CURRENT AS SHOWN ON THE PANEL CONNECTION POINT. IF THIS OPTION IS SELECTED, PROVIDE A.I.C. RATING DATA AS A PART OF THE SERVICE AND DISTRIBUTION SHOP DRAWINGS.

POWER RISER DIAGRAM FOR ELECTRICAL SERVICE

ALL WIRING SHALL BE COPPER TYPE THHN UNLESS OTHERWISE NOTED.
RUN 1/0 CU GRND. FROM WATER PIPE BOLTED CONNECTION TO TWO 20 FT. LONG X 3/4\"/>

Mohamed Ghazall
Digitally signed by Mohamed Ghazall
Date: 2022.09.19 11:40:59 -04'00'



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PROJECT
New Dental Clinic for Dr. Majid Heydari
1403 Cleveland Ave
Wildwood Florida

REVISION DATES	
REVISION	DATE

DATE	
PERMIT SET	08/15/2022

SHEET TITLE

SHEET NUMBER
E-5
SCALE: 1/4" = 1'-0"

PROJECT NO.
2214

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