

ENGINEERING • INSPECTIONS CERTIFICATIONS • TESTING

November 3, 2022

Steel Homes 4300 NW 128 Street Opa Locka, FL 33013

RE: Manufacturer: Steel Homes, Inc.

S/N Size & Occ.: Soccer Camp Bldg 1; 8' X 20'; A-5

HWC Plan#: 2557-0112F

To Whom It May Concern:

This is to certify that the plans for the referenced manufactured building have been reviewed and approved as being in compliance with the 2020 Florida Codes with Supplements as noted on the approved drawings, subject to the following limitations:

- 1. Approval covers factory-built structure only. (Note: Any alterations to factory built structure on site voids state approval)
- 2. Items installed at the site are subject to review, approval, and inspection by the local authority having jurisdiction.
- 3. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
- 4. Signed and sealed plans shall be on file with HWC Engineering.
- 5. IS Approved for High Velocity Hurricane Zone (i.e. Broward and Dade Counties)

Sincerely,

HILBORN, WERNER, CARTER & ASSOCIATES, INC.

Plan Reviewer

SECTION 553.80(1)(d) FS SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDING, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS & PROFESIONAL REGULATOR (DBPR) ATTETS THAT THE PLAN HAVE BEEN REVIEWED & THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED THIRD PARTY AGENCY & FOUND COMPLAINT WITH THE FBC.

ELECTRICAL/PLUMBING CONNECTIONS:

ALL ON-SITE ELECTRICAL AND PLUMBING CONNECTIONS/INSTALLATION SHALL BE COMPLETED BY A CERTIFIED ELECTRICAL/PLUMBING CONTRACTORRESPECTIVELY. SEE PLUMBING& ELECTRICAL DETAILS FOR TESTING & INSPECTIONREQUIREMENTS.

SITE PREPARATION / FOUNDATION

- 1. ALL LOTS SHALL BE PROVIDED WITH DRAINAGE AND SHALL BE GRADES SO AS TO DRAIN SURFACE WATER AWAY FROM FOOTINGS AND THE FOUNDATION WALLS (BY OTHERS). ALL GRASS, VEGETATION, ORGANICMATTER, UNSTABLE SOIL(SUCH AS ALL MUCK AND/OROTHER LIKE SOILS), OTHER DELETERIOUS MATERIAL(S) ALL LOOSE DEBRIS, ALL FOREIGN OBJECTS, ETC... SHALL BE REMOVED FROM THE AREA OFTHE FOOTINGS, AS WELL AS THE ENTIRE AREA BENEATH THE BUILDING. THE MINIMUM PITCH FOR ALL SURFACE GRADING SHALL BE AT LEAST ONE INCH FOR EVERY TENN FEET OF SOIL AREA. WATER SHALL NOT ACCUMULATE BELOW ANY PORTION OF THE STRUCTURE. ALL SITE WORK IS BY OTHERS, NOT STEEL HOMES.
- CRAWL, SPACES UNDER BUILDINGS WITHOUT BASEMENTS, SHALL BE VENTILATED BY APPROVED MECHANICAL MEANS AND / OR BY OPENNINGS IN THE FOUNDATION WALLS. OPENNINGS SHALL BE ARRANGED TO PROVIDE CROSS-VENTILATION AND SHALL BE COVERED W/CORROSIONRESISTANT WIRE MESH, THE LEAST DIMENSION SHALL NOT EXCEED 1/4" IN ANY DIMENSION. COMBINED OPENNINGS IN THE FOUNDATIONWALLS SHALL HAVE A NET FREE AREA OFNOTLESS THAN 1 SQ. FT. FOR EACH 150 SQ. FEET OF CRAWL SPACE (AREA BENEATH BUILDING), CRAWL SPACE ACCESS PER THE FBC/FRC, MIN. 6MILPOLY VAPOR BARRRIER ISREQ'D BELOW THE BUILDING. ALTERNATE MEANSOF VENTILATION ASALLOWEDBYTHEFBC/FRC MAY BE
- THE FINISHED GROUND LEVEL OF AN UNDER-FLOOR SPACE SUCH AS A CRAWL SPACE SHALL NOT BE LOCATED BELOW THE BOTTOM OF THE FOOTINGS. WHERE THERE IS ANY EVIDENCE THATTHE GROUND-WATER TABLE RISES TOWITHIN 6 INCHES OFTHE GROUND LEVEL AT THE OUTSIDE BUILDING PERIMETER, OR THAT THE SURFACE WATER DOES NOT READILY DRAINFROM THE BUILDING SITE. THEN THE GROUND LEVEL OF THE UNDER-FLOOR SPACE SHALL, AT A MINIMUM, BE AS HIGHAS THE OUTSIDE FINISHED GROUND LEVEL, UNLESS AN APPROVED DRAINAGE SYSTEM
- UNLESS OTHERWISE SPECIFIED IN THIS PACKAGE: EACH END OF EACH SHEARWALL SEGMENT & COLUMN LOCATIONS, SHALL BE SUPPORTED & ADEQUATELY CONNECTED TO FOUNDATION AND / OR GROUND TO TRANSFER ALL LIVE, DEAD, AND OR ANY OTHERWISE INDUCED LOANS. REFER TO THE FLOOR PLAN FOR SHEARWALL OVERTURNING LOADS &COLUMN LOADS. THE FOUNDATIONSHALL BE
- CAPABLE OF SUPPORTING ALL LOADS. THE DESIGN & CONSTRUCTION OF THIS BUILDING REQUIRES CONTINOUS SUPPORT TO BE PROVIDED BY THE FOUNDATION SYSTEM ALONG THE PERIMETER OF EACH FLOOR. UNLESS OTHERWISE NOTED INTHIS APPROVED BUILDINGPACKAGE; JOIST HANGERS ARE NOT USED INTHE CONSTRUCTION OF THE BUILDING AT THE FACTORY THEREFOREAMINIMU 11/2" BEARING SHALL BE PROVIDED FOR ALL FLOOR JOISTS BY THE FOUNDATIO SYSTEM (SIDEWALL & ALL MATING LINE AREAS SHALL BE SUPPORTED)
- THE ENTIRE BUILDING/STRUCTURE SHALL FIT TIGHTLY TO THE SUPPORTING FOUNDATION SYSTEM. WHERE ANY GAPS OCCUR, WOOD SHIMS SHALL BE INSTALLED TO ENSURE A TIGHT FIT ANDPROPER BEARING. ALL WOOD SHIMS SHALL BE INSTALLED TO ENSURE A TIGHT FIT AND PROPER BEARING. ALL WOOD SHIMS SHALL BE FREE OF KNOTS, CHECKS SPLITS, BREAKS, AND/OROTHER IMPERFECTIONS. ALL WOOD SHAIMS SHALL BE OFTREATED LUMBER OR OTHER
- APPROVED MATERIAL(S). THE SIOL LOCATED UNDER ALL FOOTINGS SHALL BE COMPACTED TO A MINIMUM 96% DENSITY-PER ASTM D-1557. FOOTERS 12" BELOW VIRGIN SOIL AND BELOW FROSTL-LINE
- THE MINIMUM DEPTH OF FOOTINGS BELOW UNDISTURBED GROUND SURFACE SHALI BE 12 INCHES (305MM) & IN ALL CASES THE FOOTING SHALL EXTEND THE FROST-LINE.
- MATERIALS USED IN THE FOUNDATION SYSTEM OF THIS STRUCTURE SHALL COMPLY W/ ALL APPLICABLE CODES AND/OR REQUIREMENTS (INCLUDING STATE AND/OR LOCAL)

SITE PREPARATION / FOUNDATION

- 1. APPROVED TERMITE PROTECTION/TREATMENT SHALL BE PROVIDED. A 6 INCH MINIMUM CLEARANCE SHALL BE PROVIDED BETWEEN EXTERIOR WALLS AND/OR SIDING &GRADE FOR TERMITE INSPECTION(4 INCHES MINIMUM FOR GARAGEOR PATIOSLABS).
- 2. UNLESS OTHERWISE NOTED. 18 INCHES MINIMUM SHALL BE PROVIDED BELOW THE BUILDING OR STRUCTURAL FRAMING (CRAWL SPACE AREA) TO THE SOIL. A 1'-0" (12 INCHES) MINIMUM CLEARANCE SHALL BE PROVIDED BETWEEN ALL THE STRUCTURES EXTERIOR WALLS AND ALL CONDENSATE DRAINS, ROOF/GUTTER DOWN SPOUTS, SPRINKLER SYSTEMS, ALL SPRAY HEADS, ANY OVERFLOW DRAINS &
- WATER HEATER T&P DRAIN(ON-SITE). TREATMENT SHALL BE APPLIED TO ALL AREAS BENEATH THE BUILDING/STRUCTURE (INCLUDING PORCHES AND OTHER LIKE AREAS). AS WELL AS, ALL EXTERIOR AREAS THAT ARE LOCATED WITHIN A MINIMUMOF1'-0" (12 INCHES) FROM ANY/ALL EXTERIOR WALLS OF THE FOUNDATION SYSTEM AND/OR PORTION OF THE BUILDING/STRUCTURE
- OR AS ALLOWED BY THE FBC/FRC. TREATED SOIL BENEATH THE STRUCTURE SHALL BE COVERED WITH A MIN. 6 MIL POLY VAPOR BARRIER. TREATMENT SHALL BE DONE AFTER ALL EXCAVATION, BACK FILLING &COMPACTION. ANY SOILTHAT ISDISTURBED AFTER THE TREATMENT ISINSTALLED SHALL BE RETREATED.
- NO WOOD, VEGETATION, DEAD ROOTS, CARDBOARD, PAPER, TRASH, ORGANIC MATERIALS, NOR ANY CELLULOSE, CONTAINING MATERIAL SHALL BE BURIED WITHINFIFTEEN FEET OF ANY BUILDING/STRUCTURE NOTR THE POSITION OFANY BUILDING/STRUCTURE THAT MAY BE BUILT ORINSTALLED. REFER TO NOTES1.2.&3 SITE PREP/FOUNDATION SECTION.
- UNLESS OTHERWISE NOTED, A GALV. TERMITE SHIELD & P.T. LEDGER SHALL BE INSTALLED ALONG THE FOUNDATION SYSTEM. WHEN P.T. JOISTS ARE USED LEDGER

EXTERIOR GLAZING PROTECTION:

WIND-BORNE DEBRIS PROTECTION IS NOT INSTALLED NOR SUPPLIED WITH THIS BUILDING, GLAZING PROTECTIONNOTREQ'DW/ IMPACTRESISTANTWINDOWS.

INSTALLING A MODULAR STRUCTURE/BUILDING CAB BE EXTREMELY DANGEROUS. ONLY QUALIFIED PERSONNEL SHOULD ATTEMP TO INSTALL MODULAR STRUCTURE/BUILDINGS. IMPROPER PROCEDURES OR TECHNIQUES COULD RESULT IN SERIOUS INJURY ORDEATH.IN ADDITION TOTHEDANGER TO PERSONNEL IMPROPER INSTALLATIONCOULD RESULT IN EXTENSIVE DAMAGE TO THE BUILDING/STRUCTURE. NEVER ATTEMP INSTALLATION IF YOU ARE NOT QUALIFIED ORDONOT HAVE THE PROPERTOOLS AND/OREQUIPMENT

GENERAL NOTES:

THE STRUCTURE MAY BE INSTALLED IN A "FLOORD ZONE" OR COASTAL AREA, REFER TO NOTE 5 BELOW.

- 1. MODULAR BUILDINGS SHALL BE INSTALLED BY A CONTRACTOR CERTIFIED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATIONS (DBPR).
- 2. IT IS THE RESPONSIBILITY OF THE CERTIFIED CONTRACTOR TO INSURE COMPLIANCE TO ALL APPLICABLE CODES AND STEEL HOMES SPECIFICATIONS, OBTAIN ALL REQUIRED PERMITS, & SCHEDULE & INSURE THAT ANY INSPECTIONS REQUIRED ARE PERFORMED BY THE LOCAL AUTHORITY HAVING JURISDICTION. ANY AND ALL REVIEW, APPROVAL, INSPECTIONFEES AND/OROTHER COSTS SHALL BE BORNE SOLELY AND EXCLUSIVELY BY THE CERTIFIED CONTRACTOR. ANY FAILURE TO CONFORM TO CODES & STEEL HOMES SPEC'SMAY AFFECT THE WARRANTY.
- THE FLORIDA CERTIFIED CONTRACTOR IS RESPONSIBLE & SOLELY ACCOUNTABLE FOR ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES, PROCEDURES, AND COORDINATIONOF ALL WORK, PERFORMED ON THE STRUCTURE, INCL. SUBS. OCCUPANT LOAD= ONE PERSON FOR EACH 200 SQUARE FEET OF FLOOR AREA.
- NO PORTION OF THE MANUFACTURED BUILDING SHALL BE INSTALLED BELOW THE BASE FLLORD ELEVATION AND THE FOUNDATION SHALL BE CAPABLE OFRESISTING ALL LOADS INDUCED WITHOUT TRANSFERRING ANY INDUCED LOAD THROUGH THE BUILDING.
- 6. THESE DRAWINGS, PLANS DETAILS, AND SPECIFICATIONS MAY NOT NECESSARILY DESCRIBE EVERY POSSIBLE PIECE OF WORK TO BE PERFORMED. IF ITEMSARENOTSHOWN, BUT ARE REQ'D FOR THE COMPLETIONOF ANY ITEM INCLUDED INTHESE DOCUMENTS. THEY SHALL BE CONSIDERED TO BE INCLUDED AS PART OFTHESE CONSTRUCTION DOCUMENTS.
- PARTIAL SETS OF CONTRACT DOCUMENTS (PLANS, NOTES, DETAILS AND SPEC'S) ARE NOT AVAILABLE FROM STEEL HOMES OF THEIR ENGINEER AND SHALL NOT BE DISTRIBUTED BY THE CONTRACTORTO SUBCONTRACTORS OR OTHERS. OVERLAPPING DETAILS FOR DIFFERENT TRADES MAY APPEAR ON OTHER SHEETS TRADES & SUBCONTRACTORS SHALL BE COORDINATED BY THE CONTRACTOR.

NOTES:

- 1. THE FLOOR AND/OR ROOF DESIGN OF THIS PLAN IS "LIGHT FRAME TRUSS TYPE CONSTRUCTION" AS REFERENCED IN FAC RULE 69A-3012(6). POSTING OF NOTICE SIGN(S) AS REQUIRED BY FAC RULE 69A-3012(6) SHALL BE INSTALLED AND ISTHE
- RESPONSILITY OF THE BUILDINGOWNER. 2. ALL MATERIAL USED IN THE CONSTRUCTION OF THE BUILDING WHICH ARE COVERED BY THE FLORIDA BUILDING COMMISSION RULE 61G 20-3 SHALL HAVE CURRENT FLORIDA PRODUCT APPROVAL.
- 3. PLAN REVIEW AND INSPECTION REQUIRED BY CHAPTER 633 F.S. SHALL BE DONE ON SITE BY THE LOCAL FIRE SAFETY INSPECTOR. 4. ARCHITECT OR ENGINEER SIGNED AND SEALED PLANS SHALL BE ON FILE WITH THIRD
- PARTY AGENCY. 5. STEELS HOMES CERTIFIES THAT THIS MANUFACTURED BUILDING HAS BEEN
- EXCLUDED FROM REGULATION BY THE UNITED STATES DEPARTMENT OFHOUSING AND URBAN DEVELOPMENT. THIS BUILDING REQUIRES ON PLACEMENT ON PERMANENT FOUNDATION SYSTEM ON SITE BY OTHERS.

ATTENTION LOCAL BUILDING DEPART:

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED. & ARE NOT ATTESTED TO OR COVERED BY THE STATE OFFLORIDA DEPART. OF BUSINESS & PROFESSIONAL REGULATION'S INSIGNIA. THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS. WORK, AND/ORMATERIALS THAT MAY BE REQ'D FOR A COMPLETE INSTALLATION. ALL SITE INSTALLED ITEMS ARE SUBJECT TO APPROVAL BY THE LJHA. ALL CODE COMPLIANCE FOR ANY SITE INSTALLED ITEMS SHALL BE DETERMINED BY THE LJHA AND ARE THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR FOR THE STRUCTURE & NOT STEEL HOMES. SITE INSTALLATION INFORMATION IS CONTAINED WITHINTHIS APPROVED PACKAGE.

SITE INSTALLED ITEMS:

- THIS LIST CONTAINS EXAMPLES AND SHALL NOT BE CONSIDERED ALL INCLUSIVE: ALL SITE GRADING/FILL AND LOT PREP.(INCLUDING DRAINAGE).
- THE COMPLETE FOUNDATION, TIE-DOWN AND ANCHORING SYSTEMS. TERMITE TREATMENT AND REQUIRED VAPOR BARRIER BELOW STRUCTURE.
- RAMPS, STARIS, AND GENERAL ACCESS (INCLUDING ALL ACCESSIBILITY BUILDIND DRAINS, CLEAN-OUTS, AND HOOKUP TO THE PLUMBING SYSTEM(S)
- ELECTRICAL SERVICE (INCLUDING FEEDERS) & CROSS-OVERS ON MULTISECTION

ANY PORTABLE FIRE EXTINGUIDSHERS AND/OR FIRE SUPPRESSION SYSTEM(S) REQ'D.

- ALL UNFINISHED DRYWALL-COMPLETE PANEL FASTENING, TAPE & TEXTURE. STRUCTURAL & AESTHETIC INTERCONNECTIONS BETWEEN MODULES/SECTIONS 10. EXTERIOR SIDING AND ROOFING (INCLUDING BONDING OF METAL SIDING ORROOF
- (COVENANTS). 11. EXTERIORWALL FINISH (ENDWALLS) AND SOFFIT MATERIALS (ENDWALL/PORCH
- 12. WINDOW GUARDS, WINDOW PROTECTION, STORM SHUTTERS (ON-SITE, BY OTHERS). 13. BOTTOM OF FLOOR INSLULATION/BOTTOM BOARD MATERIAL (WILL BE NOTED
- ONPLAN). 14. CROSSOVER DUCT AND CONNECTIONS (HVAC)-INCLUDING RETURN AND DUCTS. 15. AIR CONDITIONING AND HEATING SYSTEM (REFER TO FLORIDA ENERGY CALCULATIONS FOR MINIMUM EFFICIENCY REQUIREMENTS), INSTALLEDON SITE BY
- 16. HVAC DISCONNECT WIRING, BREAKERS, SERVICE RECEPTABLE, ETC. 17. ROOF COVERINGAT HINGE AREAS, DRY-IN, ANDCOMPLETION (RIDGE/DORMERS,
- 18. GABLE END FRAMINGWITH HINGED ROOF SYSTEMS. 19. FIREPLACE CHIMNEY STACK, VENTILATION SYSTEM, FIREPLACE CHIMNEY FRAMING. 20. REQ'D GRAB BARS AND ANY OTHER ACESIBLE FEATURES THAT ARE REQUIRED.
- 21. ONLY WHEN NOT INSTALLED IN THE FACTORY, INSULATION AND REQ'D AIR BARRIER. 22. HIGH EFFICACY LAMPS REQUIRED BY FRC R404 ARE INSTALLED ON-SITE, BY OTHERS 23. "BUILDING ADDRESS" AS REQUIRED BY FBC R319.1 IS INSTALLED ON-SITE BY OTHERS,
- LOCAL APPROVAL ISNOT REQ'D FORITEMSINSTALLED AT THE FACTORY. 24. HURRICANE SHUTTER SHALL BE INSTALLED TO PROTECT SMALL MISILE IMPACT
- 25. GUTTER AND DOWNSPOUT SHALL BE INSTELLED ON SITE BY OTHERS.
- 26. BLOWER DOOR TEST AS REQ' BY THE FEC AND SHALL PERFORMED ON SITE.
- 27. CUSTOMER TO OPTED TO SUPPLY ALL CABINETS & PLUMBING FIXTURES.

CAUTION:

11-3-22

MODULAR BUILDINGS/STRUCTURES CAN WEIGH SEVERAL TONS. IT IS EXTREMELY IMPORTANT THAT ALL PERSONNAL, ON THE JOB SITE, BE QUALIFIED AND PROPERLY/ADEQUATELY TRAINED, AFLORIDA CERTIFIED CONTRACTORISREQUIRED TO BE RESPONSIBLE FOR ALL SAFETY INITIATIVES, PROGRAMS, POLICIES, OR PROCEDURES THATMAY BE MANDATEDBY OSHA AND/OR OTHER LOCAL, STATE, AND/OR FEDERAL CODES AND/OR REQUIREMENTS. THE CONTRACTORSHALL INSURE/REQUIRE THAT SAFE AND PROPER TECHNIQUES ARE ALWAYSUSED.



OCCUPANCY A-5 ACCESSE ALLOWABLE NO. OF FLOORS -RISK CATEGORY II WIND VELOCITY (ULT) 175 WIND VELOCITY (ASD) ___136 FIRE RATING OF 0 EXT. WALLS PLAN NO. 2557-0112F ALLOW. FLOOR 100 APPROVAL DATE 11-3-2022
MANUFACTURER STEEL HOME HIGH VELOCITY YES IIWG

PLAN SPEC'S & LISTING AGENCY APPROVAL THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES

TO THE FOLLOWING CRITERIA COMPLIES W/ 2020 FL. RESIDENTIAL CODE 7TH EDITION.

SHEET LIST

SHEET NAME

A2 ENLARGED BATHROOMS, DOOR & WINDOW SHEDULES

SHEET

NUMBER

A0.0 | SHEET & NOTES

A3 | SPECIFICATIONS

A4 ACCESSIBILITY DETAILS

E1.0 | ELECTRICAL FLOOR PLAN

ELECTRICAL PANEL D

M-1.0 | MECHANICAL FLOOR PLAN

P-1.0 | PLUMBING FLOOR PLAN

S-1.1 | SCOPE OF WORK

ELEVATION

S-3.1 STRUCTURAL DETAILS S-4.1 |STRUCTURAL NOTES

P-2.0 PLUMBING DETAILS AND RISER

S-1.2 | STRUCTURAL FLOOR PLAN

S-1.3 STRUCTURAL ROOF PLAN

STRUCTURAL TYP. TRANSVERSAL SECTION

STRUCTURAL TYP. LONGITUDINAL SECTION

STRUCTURAL TYP. SHEAR WALL SECTION AND

ELECTRICAL RISER DIAGRAM

A1 | FLOOR PLAN, SECTION, ELEVATION

CONSTRUCTION TYPE:	V-B
OCCUPANCY:	A-5 ACCESSORY
TOTAL NUMBER OF STORIES:	1
WIND VELOCITY	175 MPH
FIRE RATING OF EXTERIOR WALLS	0
ALLOWABLE FLOOR LOAD	100 PSF
ALLOWABLE ROOF LOAD	30 PSF
SEISMIC LOAD	0
MANUFACTURER	STEELHOMES
HIGH VELOCITY HURRICANE ZONE	YES
LOAD OCCUPANCY	100 GROSS
MINIMUM SETBACK	
PLAN NO:	

THESE PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL OR WITH STATE OF FLORIDA STATUTE 553.842 RAISED SEAL(ORELECTRONICALLY SEALED) SET OF BUILDING PLAN ARE ONFILE INTHE THIRD PARTY LISTED AGENCY'SOFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TOOR ABOUT THE ELECTRICAL PANEL (COVER)

FLORIDA

STRUCTURAL LOAD DESIGN CRITERIA 2020 FLORIDA RES. CODE 7TH EDITION PRODUCT APPROVAL PRESSURES ARE BASED ON THE ALLOW STRESS DESIGN

MEAN ROOF HEIGT (MRH): 40 FEET MAXIMUM

2. FLOOR LIVE LOAD: 100 PSF. ROOF LIVE LOAD: LL= 30 PSF

DL=25 PSF 4. DESIGN WIND SPEED: 175 MPH VULT (ULTIMATE)

5. WIND IMPORTANCE FACTOR: LW = 1.0

RISK CATEGORY: II WIND EXPOSURE CATEGORY: C

7. INTERNAL PRESSURE COEFFICIENT: GCpi =0.18 (ENCLOSED) 8. DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING (PSF)

TEST BY HURRICANE ENGINEERING & TESTING LAB.

WALL PANEL LOAD: +/- 65 PSF ROOF DECK LOAD: +/- 143 PSF

CODE SUMMARY STATE FLORIDA State: 2020 FBC 7TH EDITION Building: W/ SUPPLEMENTS 2020 FBC 7TH EDITION Mechanical: 2017 NEC Electrical: 2020 FBC 7TH EDITION Plumbing: 2020 FBC 7TH EDITION Energy:

THESE PLANS AND DETAILS ARE CONFIDENTIAL AND PROPIETARY MATERIALS. THE CONTENTS OF THIS DRAWING PACKAGE CONTAIN CONFIDENTIAL AND/ORPRIVILEGED INFORMATION. ANY AOTHORIZEDUSE, COPING, DISCLOSURE, ORDISTRIBUTION OFTHIS PACKAGE OR ANY OF THE CONTENS CONTAINED THEREIN IS STRICTLY PROHIBITED BY STEEL HOMESAND MAY BE UNLAWFUL. THESE MATERIALS ARE PROVIDED TO THE RECIPIENT FOR SPECIFIC PURPOSES ONLY SHALL NOT BE COPIED OR OTHERWISE REPRODUCED AND/ORDISTRIBUTED TOOTHERS FORANY PURPOSE WITHOUT EXPRESS WRITTEN AUTHORIZATION FROM STEEL HOMES. THE DRAWINGS PACKAGE AND ALL CONTENTS THEREIN ARE EXCLUSIVE PROPERTYOF STEEL HOMES. ALL RIGHT RESERVED.

ZONES (HVHZ)(I.E.DADE COUNTY ORBROWARD COUNTY).

DESIGN WIND SPEEDS: 175 MPH - VULT (ULTIMATE)

THE DESIGN OF VULT = 175 MPH, EXPOSURE C, MRH=40 FEET.

THIS BUILDING IS SUBJECT TO REVIEW AND APPROVAL OF THE FIRE INSPECTOR, ON-SITE, FOR COMPLIANCE WITH CH 633 FIRE SAFETY CODE

THIS STRUCTURE HAS BEEN DESIGN AND APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE

USE THIS DESIGN OF VASD =175 MPH, EXPOSURE C, MRH =15 FEET IN THE CONSTRUCTION MANUAL FOR

THIS BUILDING IS NOT A HUD BUILDING

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION OR INSTALLATION ON A SITE BUILT PERMANENT FOUNDATIONAND ISNOTDESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

4300 NW 128 Street Opa-Locka, Florida

SW.CORNER.INTERSECTION SW.8THST.&.SW.20TH.AVE MIAMI.FL.33135

OWNER

GALENM.ENTERPRISE.LLC

ARCHITECT

NANDEZ Design+Developmen

2223 SW 13Th AVE MIAMI, FL 33145 tel:786.703.7704 info@nandezdd.com AA 26002732 IB 26001520



ARCHITECT OF RECORD: RALPH PUIG JR. FL. ARCHITECT REG. # AR 0012528

Date: 2022.10.18 17:10:09 -04'00'

REVISIONS

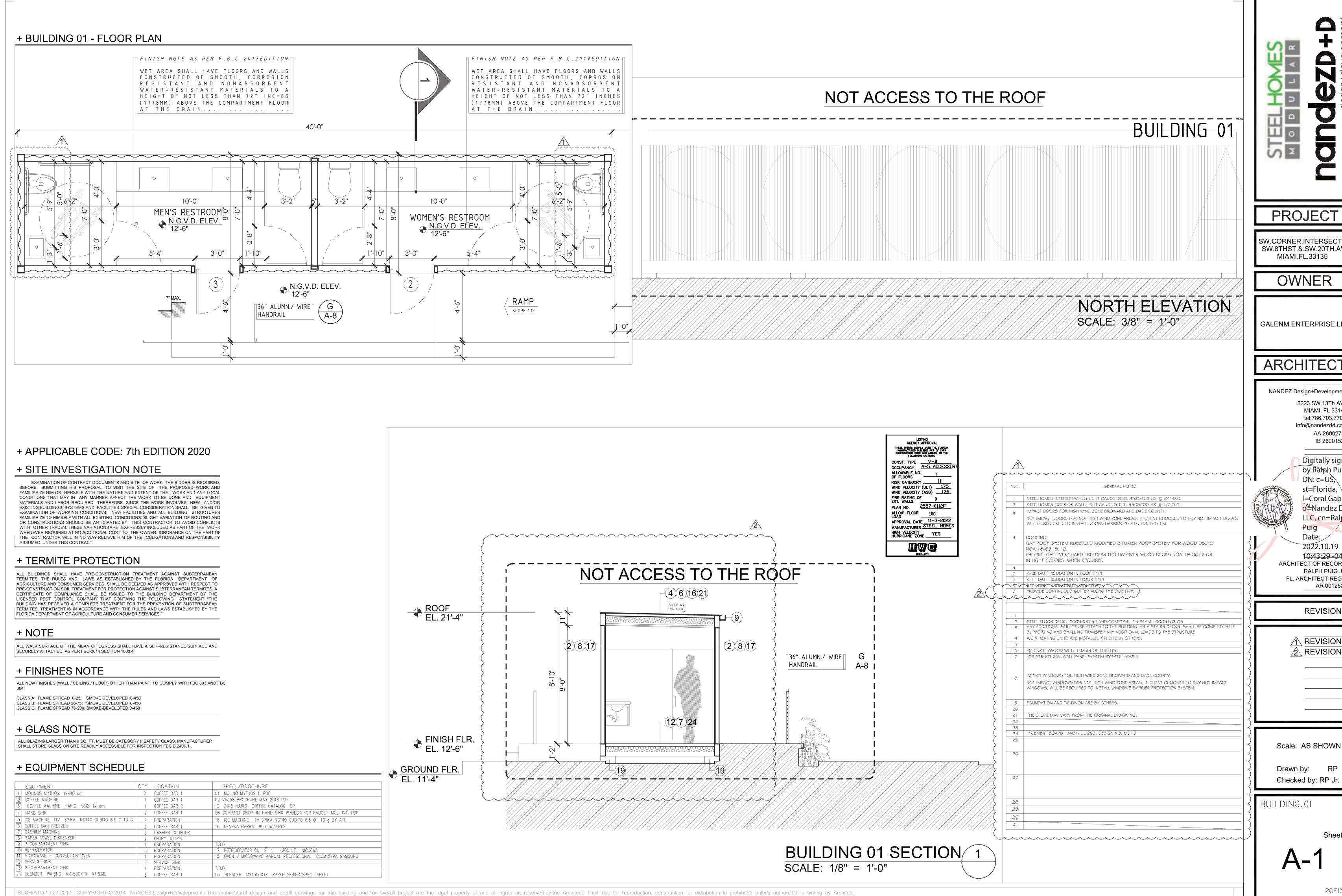
SOCCER CAMP **BUILDING 1**

> DATE: 09/16/2022 Scale: AS SHOWN

Drawn by: Checked by: RP Jr.

SHEET & NOTES

Sheet



PROJECT

SW.CORNER.INTERSECTION SW.8THST.&.SW.20TH.AVE MIAMI.FL.33135

OWNER

GALENM.ENTERPRISE.LLC

ARCHITECT

NANDEZ Design+Development 2223 SW 13Th AVE

MIAMI, FL 33145 tel:786.703.7704 info@nandezdd.com AA 26002732 IB 26001520

Digitally signed by Ralph Puig DN: c=U\$ st=Florida, l=Coral Gables o[≜]Nandez D&D LLC, cn=Ralph

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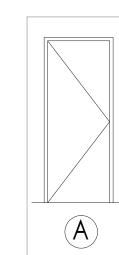
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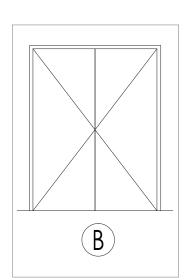
REVISIONS

REVISION#1

Checked by: RP Jr.

	BUILDING 01 DOOR SCHEDULE														
FLOOR MARK		LOCATION	LOCATION DOOR DO	R DOOR OPENING SIZE		MATERIAL		FINISH		DETAILS	DETAILS LEVEL/	UNDER	HDW	REMARKS	
FLOOR	IVIANN	LOCATION	ELEV.	W.	H.	T.	DOOR	FRAME	DOOR	FRAME	FIRE RATING	CUT	110	KEWAKKO	
	2	WOMEN'S RESTROOM	(A)	3'-0''	7'-0''		HOLLOW METAL	METAL	PAINTED	PAINTED					
	3	MEN'S RESTROOM	(A)	3'-0''	7'-0''		HOLLOW METAL	METAL	PAINTED	PAINTED					



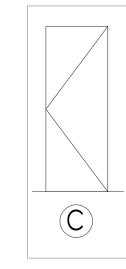


EXTERIOR DOOR ELEVATIONS

DIMENSION NOTES:

OPENINGS AS PER NOA'S AND MANUFACTURER INFORMATION BEFORE COMMENCING WORK.

2 CONTRACTOR TO COORDINATE DIMENSION W/ STRUCTURE DRAWINGS FOR BEAM LOCATION.



INTERIOR DOOR ELEVATIONS

LISTING
AGENCY APPROVAL
THESE PRINTS COINCY WITH THE FLORIDA
MANUFACTURED BUILDING ACT OF 1979
CONSTRUCTION COINE AND ADMERE TO THE
FOLLOWING CRITERIA.

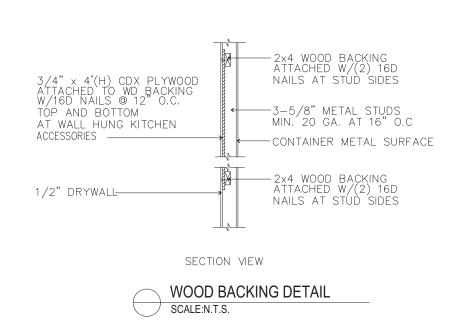
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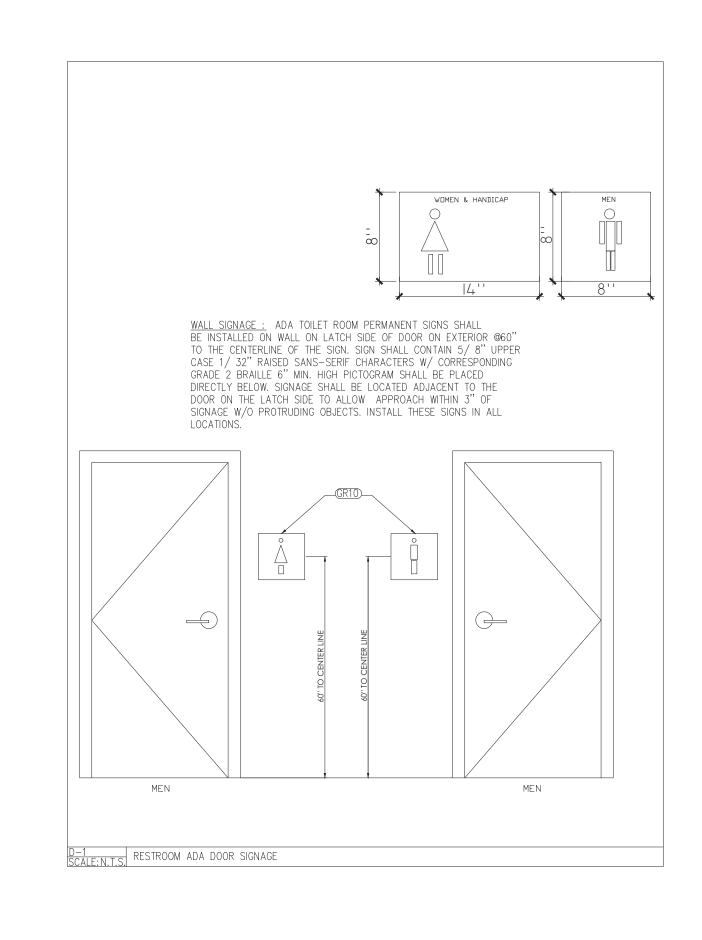
V-B

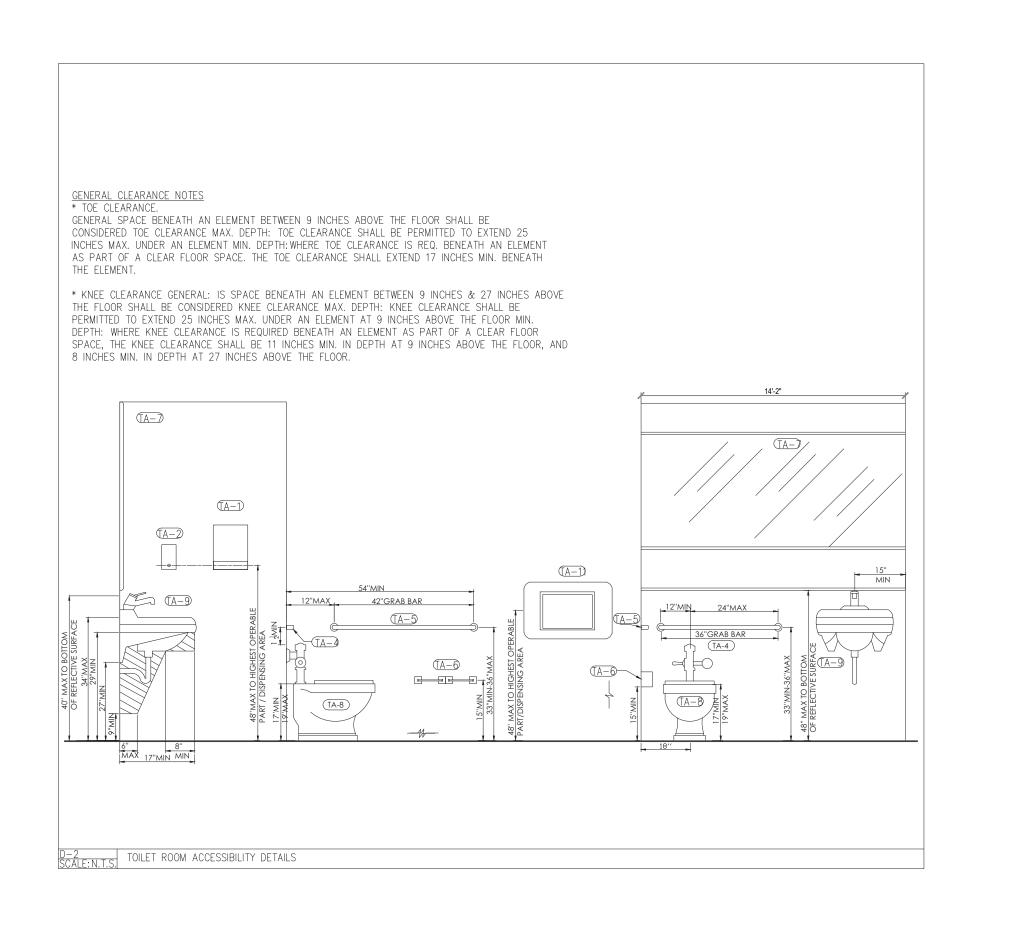
OCCUPANCY
A-5 ACCESSIRY
ALLOWABLE NO.
OF FLOORS
RISK CATEGORY
WIND VELOCITY (ULT)
WIND VELOCITY (ULT)
WIND VELOCITY (ASD)
FIRE RATING OF
EXT. WALLS
PLAN NO.
2557-0112F
ALLOW. FLOOR
LOAD
APPROVAL DATE
HIGH VELOCITY
HURRICANE ZONE

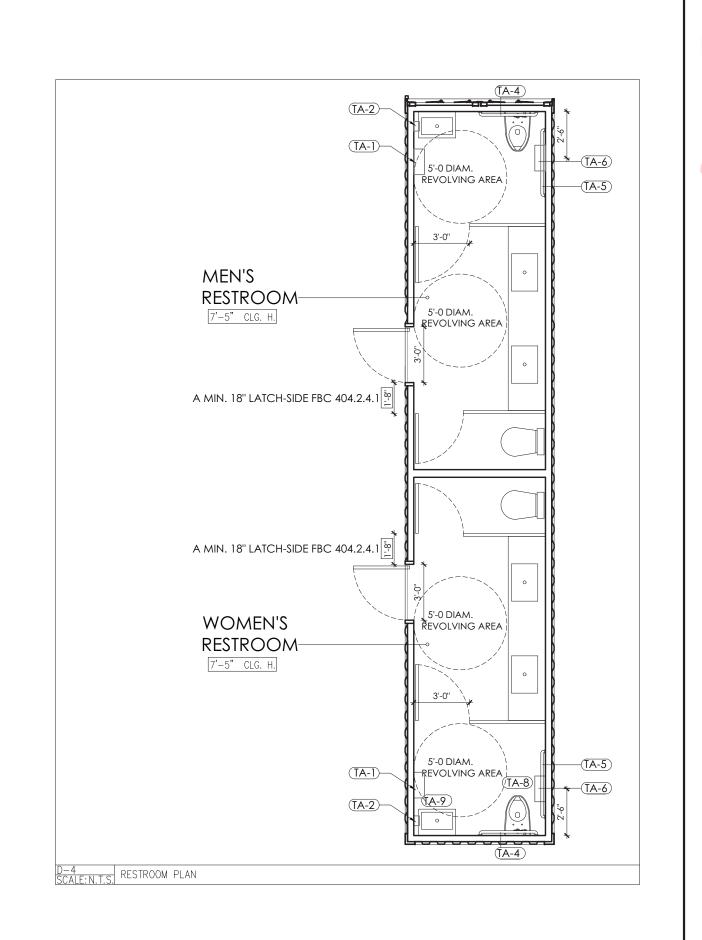
MUR-281

TOILET	ACCESSORIES SCHEDULE							
MARK	QTY DESCRIPTION	SUPPLIED BY	NSTALLED BY	NOTE				
TA-1	1 EANEW PAPER TOWEL DISPENSER	G.C	G.C	С				
TA-2	1 EA NEW LIQUID SOAP DISPENSER	G.C	G.C					
TA-3	18,, H.C. VERTICAL GRAB BAR: BOBRICK #B 6806	G.C	G.C	A.C.				
TA-4	1 EANEW 36" H.C. GRAB BAR	G.C	G.C	A.C.				
TA-5	1 EA NEW 42" H.C. GRAB BAR	G.C	G.C	A.C.				
TA-6	1 EANEW TOILET TISSUE DISPENSER	G.C	G.C	С				
TA-7	MIRROR BOTTOM OF REFLECTIVE SURFACE @ 1 EA 48" EXTEND TO CEILING AND FULL WIDTH OF RESTROOM	G.C	G.C	C.D.				
TA-8	1 EA PLUMBING PLANS		G.C	С				
TA-9	1 EAREFER TO PLUMBING PLANS		G.C	B.C.				
TA-11	1 EA WALL MOUNTED BABY CHANGING STATION: MFG: KOALA: MODEL # KB200	G.C	G.C	С				
T-15	WALL TILE TO BE SELECTED BY OWNER COLOR AND SIZE, UP TO 42" HEIGHT (OPTIONAL).	G.C	G.C					
P-15	WALL FINISH: STUCCO+PAINT COLOR BY OWNER.	G.C	G.C					
<u>NOTES</u>								
A	1-1/2" STAINLESS STEEL GRAB BAR WITH 1-1/2" CLEAR AND WALL SURFACE PROVIDE BLOCKING AS REQUIRED FI SOLID MOUNTING			B BAF				
В	PROVIDE TRAP WRAP FOR DRAIN PIPES AND INSULATE THE COLD WATER LINES	PROVIDE TRAP WRAP FOR DRAIN PIPES AND INSULATE THE HOT AND						
С	REFER TO TOILET ROOM ACCESSIBILITY DETAILS AND ENL. PLAN FOR MOUNTING LOCATIONS AND HEIGHTS	ARGED TOI	LET ROOM					
D	PRCVIDE 4" METAL TRIM AROUND ALL EDGES OF MIRROF WALL w/MIRROR MAS 1 IC	RATTACH	MIRROR TO)				











PROJECT

SW.CORNER.INTERSECTION SW.8THST.&.SW.20TH.AVE MIAMI.FL.33135

OWNER

GALENM.ENTERPRISE.LLC

ARCHITECT

NANDEZ Design+Development

2223 SW 13Th AVE MIAMI, FL 33145 tel:786.703.7704 info@nandezdd.com AA 26002732 IB 26001520

> Digitally signed by Ralph Puig DN: c=US, st=Florida, l=Coral Gables, o=Nandez D&D

LLC, cn=Ralp/h
Puig
Date:
2022.11.01
09:25:39 -04'00'

0<u>9:25:39 -04'00'</u>

ARCHITECT OF RECORD:

RALPH PUIG JR.

FL. ARCHITECT REG. #

AR 0012528

REVISIONS

DATE: 09/16/2022 Scale: AS SHOWN

Job No.: 2022
Drawn by: RP
Checked by: RP Jr.

SCHEDULES

Shee

A-2

SUSHIATO / 9.27.2017 COPYRIGHT © 2014 NANDEZ Design+Development / The architectural design and detail drawings for this building and / or overall project are the legal property of and all rights are reserved by the Architect. Their use for reproduction, construction, or distribution is prohibited unless authorized in writing by Architect.

70FI3

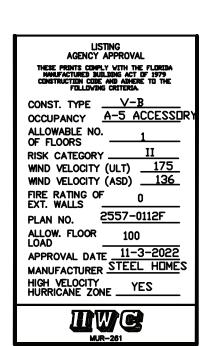
ULTIMATE DESIGN WIND SPEED: 175 MPH WIND EXPOSURE CATEGORY: C & D MEAN ROOF HEIGHT: 40 FT.

FLORIDA PRODUCT APPROVAL SPECIFICATION SHEET:

C & D LOADS BASED ON ALLOWABLE STRESS DESIGN AS CONVERTED FROM THE ULTIMATE OR STRENGTH DESIGN.

AS REQUIRED BY FLORIDA 553.842 AND THE FLORIDA ADMINISTRATIVE CODE 61-G20-3-006, THE INFORMATION AND APPROVAL NUMBERS ON THE BUILDING COMPONENTS ARE LISTED BELOW:

CATEGORY / SUBCATEGORY	MANUFACTURER	PRODUCT DESCRIPTION	MIAMI DADE PRODUCT APPROVAL NUMBER(S
1 EXTERIOR DOORS 1 EXTERIOR DOORS	LAWSON INDUSTRIES, INC LAWSON INDUSTRIES, INC	SERIES SDG-9200 ALUMINUM SLIDING GLASS DOOR - L.M.I OR SIMILAR SERIES "LA PORTE" ALUMINUM OUTSWING FRENCH DOOR - L.M.I OR SIMILAR	NOA No: 20 - 0901.06 NOA No: 20 - 0901.11
1 EXTERIOR DOORS	ES WINDOWS, LLC	SERIES "EL300" ALUMINUM OUTSWING DOOR L.M.I LARGE AND SMALL MISSILE IMPACT RESISTANT OR SIMILAR	NOA No: 19 - 0918.03
2 WINDOWS	ES WINDOWS, LLC	SERIES "9500" ALUMINUM WINDOW WALL SYSTEM L.M.I LARGE AND SMALL MISSILE IMPACT RESISTANT OR SIMILAR	NOA No: 20 - 1208.10
3 WALL PANELS			
EXTERIOR WALL			
SIDING	JAMES HARDIE	PLAKS AND PANELS - FIBER CEMENT SIDING AND SOFFIT OPT	NOA No: 22 - 0315.07
SIDING	JAMES HARDIE	ARTISAN LAP SIDING OPT	NOA No: 20 - 0730.07
DENS DECK / MASTERWALL.	MASTERWALL SYSTEM -PACIFIC GYPSUM LLC	AGGRE-FLEX AND ROLLERSHIELD DRAINAGE H75F5LM EIFS SYSTEM OVER 1/2" DENS GLASS GOLD OR SIMILAR	NOA No: 21 - 0414.02
4 ROOFING PRODUCTS			
GAF RUBEROID	GAF RUBEROID	GAF RUBEROID MODIFIED BITUMEN ROOF SYSTEM	NOA No: 18 - 0919.12
OPT. GAF EVERGUARD TPO	GAF EVERGUARD	GAF EVERGUARD FREEDOM TPO HW	NOA No: 19 - 0617.04
STEEL CONNECTORS	NU- VUE INDUSTRIES	METAL STRAP	NOA No: 20 - 0519.03
5 CONSTRUCTIVE COMPONENTS			
25 FIRE RESISTANCE RATING / FIRE RATED SYSTEM		UL- DESING NO. H504 BXUV.H504 FIRE - RESISTANCE RATINGS - NSI/UL 263	UL- DESING NO. H504 BXUV.H504 FIRE RESISTANCE RATINGS - NSI/UL 263





PROJECT

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Gables, o=Nandez D&D LLC, cu=Ralph Puig
Date: 2022.10.18 17:11:01 -04'00'

ARCHITECT OF RECORD: RALPH PUIG JR. FL. ARCHITECT REG. # AR 0012528

REVISIONS

SOCCER CAMP BUILDING 1

DATE: 09/16/2022 Scale: AS SHOWN

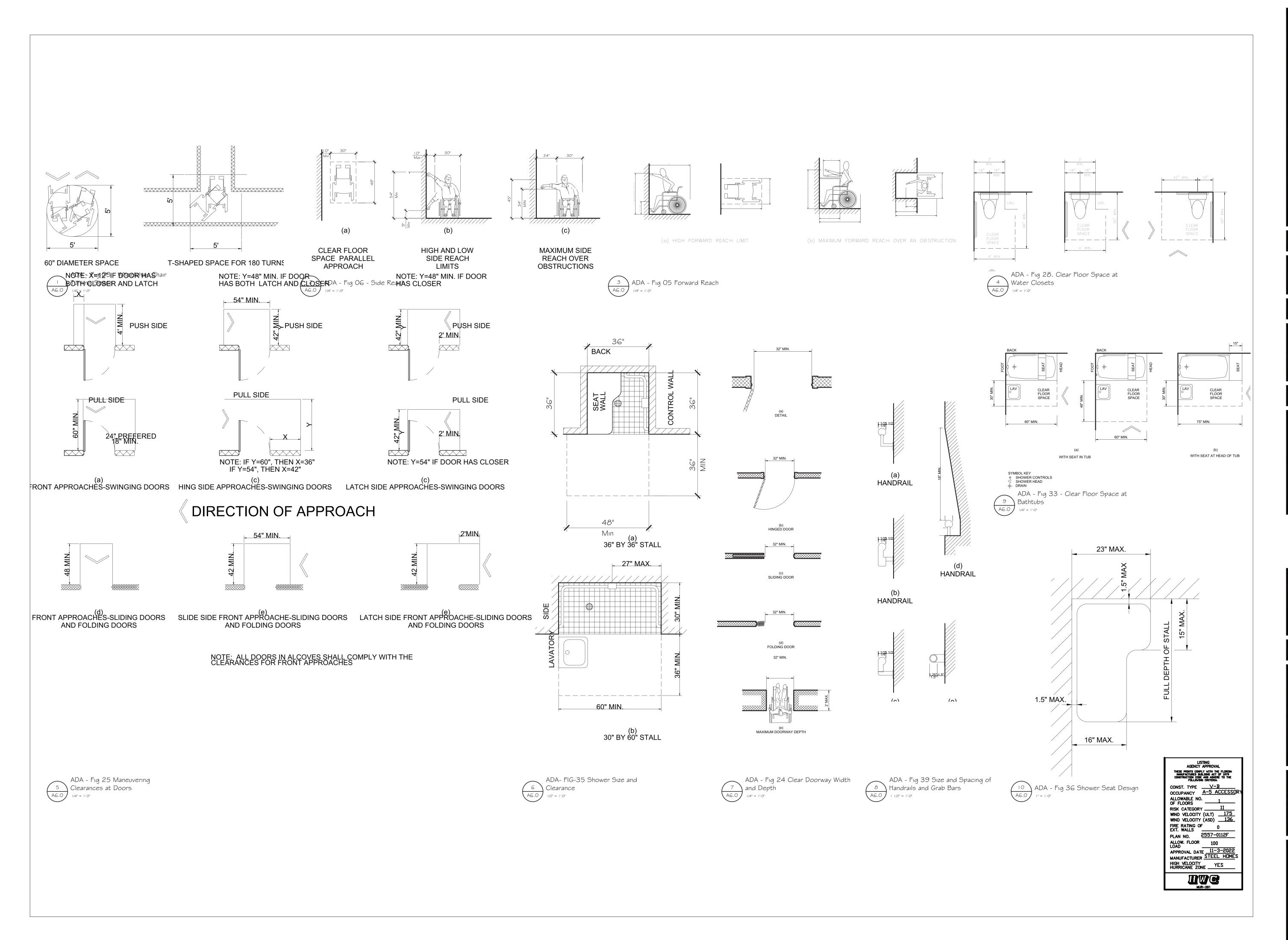
Drawn by: RP Checked by: RP Jr.

SPECIFICATIONS

Sheet

1-0

20FI3





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LLC, cn=Ralph Puig Date: 2022.10.18

17:11:31 -04'00'

ARCHITECT OF RECORD:
RALPH PUIG JR.
FL. ARCHITECT REG. #

REVISIONS

AR 0012528

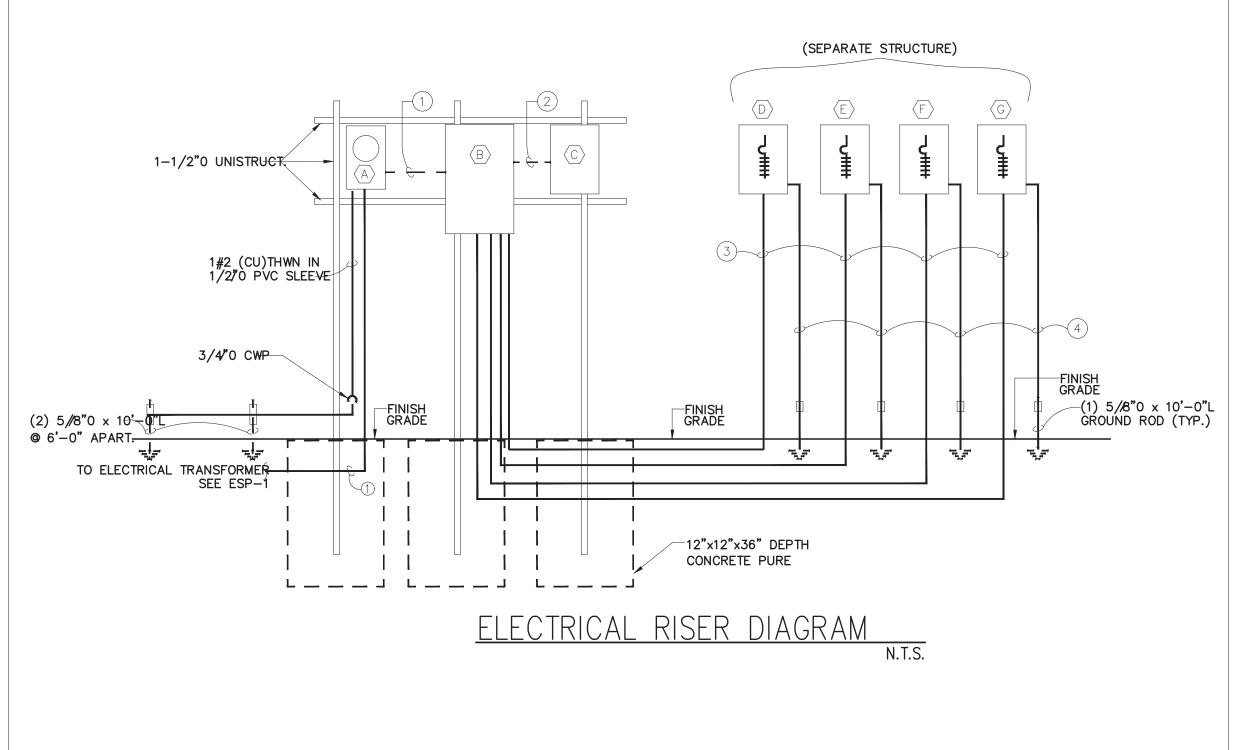
SOCCER CAMP BUILDING 1

> DATE: 09/16/2022 Scale: AS SHOWN

Drawn by: RP Checked by: RP Jr.

ACCESSIBILITY DETAILS

Sheet



ELECTRICAL RISER LEGEND / SYMBOL

A ELECTRICAL METER (3 Ø) NEMA 3R ENCLOSURE

B MDP NEMA 3R ENCLOSURE 400 AMPS. RATED MLO (SEE PNL. SCHEDULE)

C ELECTRICAL PANEL "SF" W/3/125 AMPS. (SIDE) IN NEMA 3R ENCLOSURE (SEE PNL. SCHDULE) (MAIN 10F5)

D ELECTRICAL PNL. "A" NEMA 3R W/2/125 A. MCB (SIDE) (SEE PNL. SCHEDULE)

E ELECTRICAL PNL. "B" NEMA 3R W/2/125 A. MCB (SIDE) (SEE PNL. SCHEDULE)

F ELECTRICAL PNL. "C" NEMA 3R W/2/125 A. MCB (SIDE) (SEE PNL. SCHEDULE)

G ELECTRICAL PNL. "D" NEMA 3R W/2/125 A. MCB (SIDE) (SEE PNL. SCHEDULE)

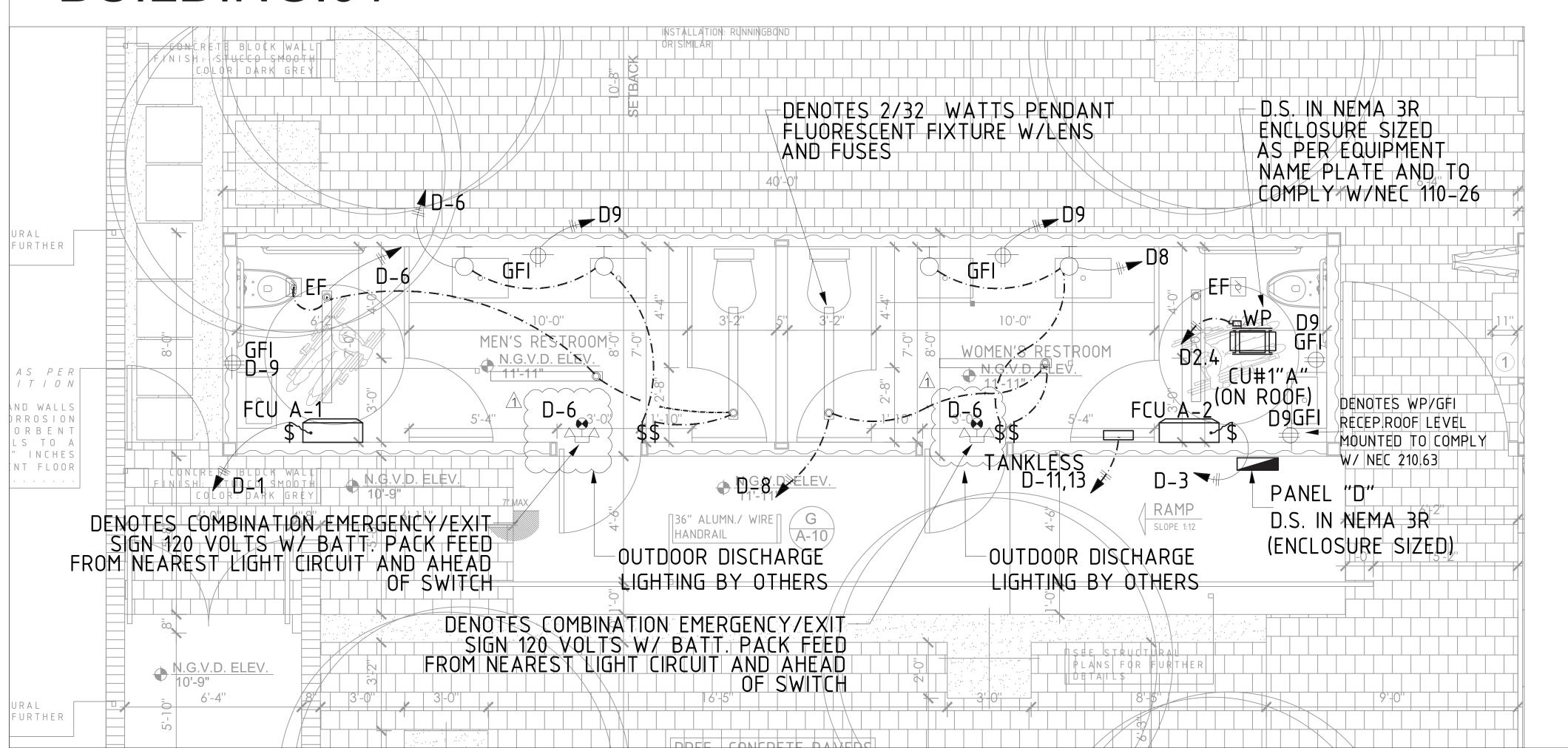
1 4 # 250 KCMIL (CU) THWN IN 3" Ø CONDUIT

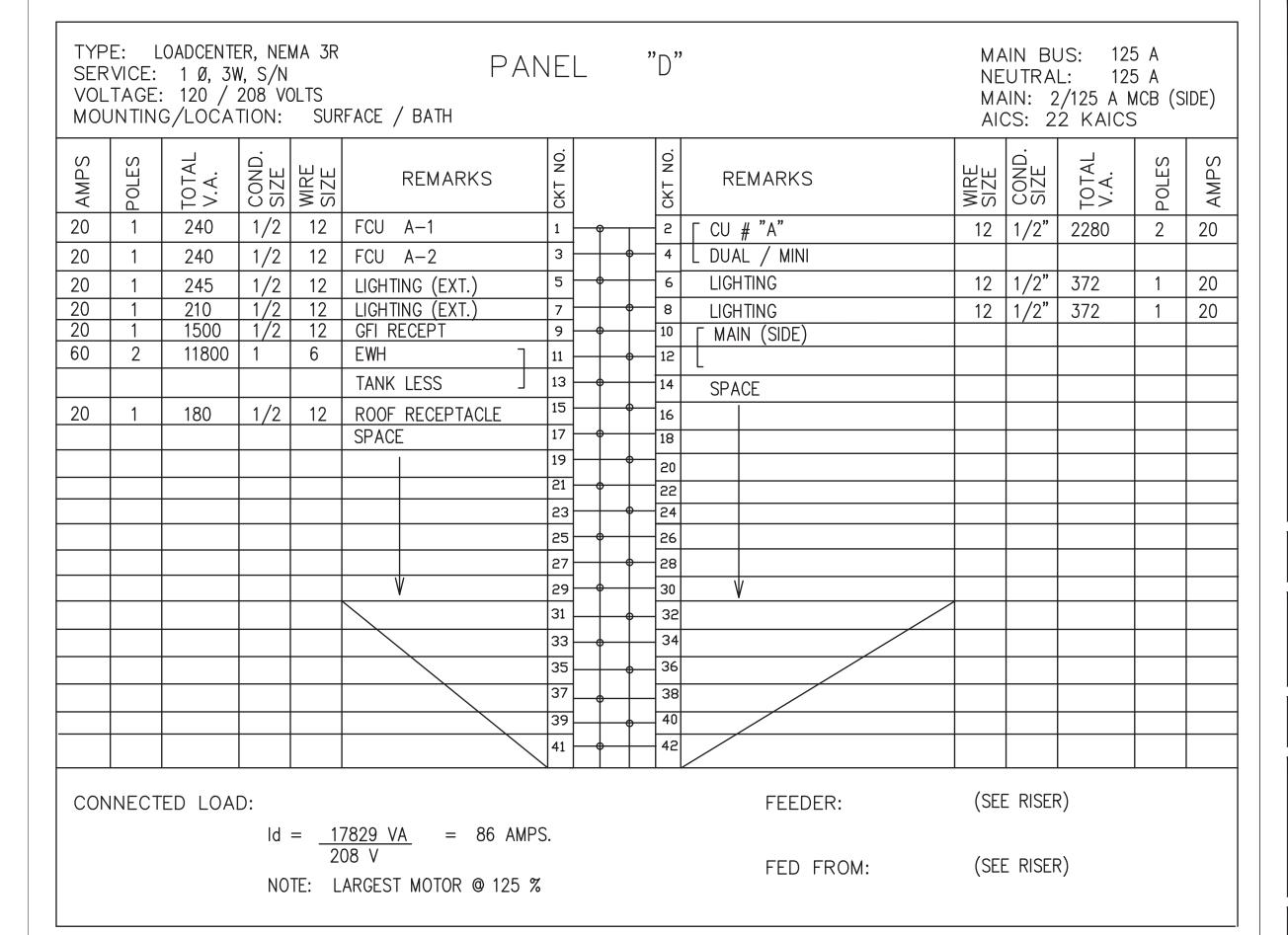
2 4 # 1 (CU) THWN IN 1-1/2" Ø CONDUIT

3 3 # 1 (CU) THWN IN 1-1/4" Ø CONDUIT

NOTE: ALL ELECTRICAL INSTALLATION SHALL COMPLY W/ F.B.C. 2020 AND NEC 2017

BUILDING.01





LISTING
AGENCY APPROVAL
THESE PRINTS CORPLY VITH THE FLORIDA
HANDACTURED BUILDING ACT OF 1979
CONSTRUCTION CODIC AND ADBERE TO THE
FULLDIVING CHITERIA.

CONST. TYPE V-B
OCCUPANCY A-5 ACCESSOR
ALLOWABLE NO.
OF FLOORS
RISK CATEGORY II
WIND VELOCITY (ULT) 175
WIND VELOCITY (ASD) 136
FIRE RATING OF EXT. WALLS
PLAN NO. 2557-0112F
ALLOW. FLOOR 100
APPROVAL DATE 11-3-2022
MANUFACTURER
HIGH VELOCITY
HURRICANE ZONE YES

THE TOTAL TO

PROJECT

SW.CORNER.INTERSECTION SW.8THST.&.SW.20TH.AVE MIAMI.FL.33135

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ARCHITECT OF RECORD:
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FL. ARCHITECT REG. #
AR 0012528

REVISIONS

REVISION#1

DATE: 09/16/2022
Scale: AS SHOWN
Job No.: 2022
Drawn by: RP
Checked by: RP Jr.

ELECTRICAL FLOOR.PLAN

4

E-1.0

GENERAL HEATING, VENTILATION AND AIR CONDITIONING NOTES

- 1. ALL WORK SHALL CONFORM WITH ALL LOCAL STATE, FEDERAL ORDINANCES AND BUILDING CODES GOVERNING THE INSTALLATION OF THE AIR CONDITIONING SYSTEM AND IN COMPLIANCE WITH LATEST ASHRAE AND SMACNA STANDARD.
- 2. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL OF THE MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK WITH OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN MAXIMUM HEADROOM, AND SPACE CONDITIONS AT. WHERE HEADROOM, OR SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER.
- AFTER EXAMINATION OF CONTRACT DOCUMENTS AND SITE OF CONDITIONS: THE BIDDER IS REQUIRED, BEFORE SUBMITTING HIS PROPOSAL, TO FAMILIARIZE HIM OR HERSELF WITH THE NATURE AND EXTENT OF THE WORK AND ANY LOCAL CONDITIONS THAT MAY IN ANY MANNER AFFECT THE WORK TO BE DONE AND EQUIPMENT, MATERIALS AND LABOR REQUIRED THEREFORE, SINCE THE WORK INVOLVES NEW BUILDINGS, SYSTEMS, SPECIAL CONSIDERATION SHALL BE GIVEN TO THE WORKING CONDITIONS. SLIGHT VARIATION OF ROUTING AND OR CONSTRUCTIONS SHOULD BE ANTICIPATED BY THIS CONTRACTOR TO AVOID CONFLICTS WITH OTHER TRADES. THESE VARIATIONS ARE EXPRESSLY INCLUDED AS PART OF THE WORK WHENEVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER. IGNORANCE ON THE PART OF THE CONTRACTOR WILL IN NO WAY RELIEVE HIM OF THE OBLIGATIONS AND RESPONSIBILITY ASSUMED UNDER THE CONTRACT. THE CONTRACTOR SHALL REPORT IN WRITING TO THE ARCHITECT/ENGINEER. BEFORE SUBMITTING A BID. IF ANY DISCREPANCIES ARE ENCOUNTERED, THEN WE WILL ISSUE INSTRUCTIONS HOW TO PROCEED.
- 4. INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER, THE OWNER RESERVES THE RIGHT TO REQUIRE OR REMOVAL THE PLACEMENT OF ITEMS WHICH WERE NOT RIGHT.
- 5. THIS CONTRACTOR SHALL OBTAIN AND PAY ALL INSURANCE , FEES, PERMITS, ROYALTIES, AND TAXES OF WHATEVER NATURE SHALL APPLY TO THIS WORK. HE SHALL ALSO PAY ALL INSPECTIONS FEES AND SHALL KEEP THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ASSURING FROM ANY VIOLATION OF THE LAWS, RULES, OR ORDINANCES.
- 6. PROVIDE MEANS "FURNISH AND INSTALL".
- 7. SHOP DRAWINGS: THIS CONTRACTOR SHALL FURNISH THE ENGINEER WITH SHOP DRAWINGS OF EQUIPMENT AND DEVICES PRIOR TO PURCHASE FOR APPROVAL AND ACCEPTANCE.
- 8. AT COMPLETION OF JOB THE HVAC CONTRACTOR SHALL GIVE THE OWNER AN AS-BUILT SET OF REPRODUCIBLE SEPIAS SHOWING THE EXACT INSTALLATION. IF ANY DEVIATIONS OCCUR FROM THIS, SET OF CONTRACT DOCUMENTS.
- 9. BETWEEN THE UNITS OR SPACES THE HVAC CONTRACTOR SHALL TEST AND BALANCE THE AIR QUANTITIES SHOWN ON THE PLANS, PROVIDE T & B REPORTS IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER.

- 10. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. 11. THE HVAC CONTRACTOR SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL WORK
- ACCEPTANCE BY OWNER . ANY BREAKDOWN OCCURRING IN FIRST YEAR SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER. THE COMPRESSOR (S) SHALL HAVE A FIVE YEARS WARRANTY MINIMUM. 12. MOUNT ALL EQUIPMENT FOR WIND LOADS AND MOUNTING HEIGHTS AS
- REQUIRED BY LOCAL CODES. 13. MATERIALS:
- 1. AIR CONDITIONING DUCTWORK SHALL BE CONSTRUCTED OF CODE GAUGE GALVANIZED METAL DUCT WITH 1-1/2" THICK R=4.2WRAP AROUND STANDARD DUTY FIBERGLASS BOARD FLAMEPROOF REINFORCED ALUMINUM FACED COVER IN ACCORDANCE WITH THE S.M.A.C.N.A. AS MANUFACTURED BY OWNERS-COMING. DUCTWORK SHALL BE FABRICATED AND INSTALLED ACCORDING WITH MANUFACTURER'S INSTRUCTIONS INSTALL AIR VOLUME EXTRACTORS AT EACH DUCT
- 2. IF AIR CONDITIONING DUCTWORK IS EXPOSED. SHALL BE CONSTRUCTED OF GALVANIZED METAL DUCT (26 GAUGE)(SNAP LOCK TYPE). DUCTWORK SHALL BE FABRICATED AND INSTALLED ÁCCORDING WITH MANUFACTURER'S INSTRUCTIONS.
- B. FLEXIBLE DUCTWORK SHALL BE CLASS I AIR DUCT, U.L. 181 LISTED AS FOR CONDITIONED SPACE R 4.0 AND BUILT IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
- 1. BENDS SHALL MAINTAIN A CENTERLINE RADIUS OF NOT LESS
- THAN ONE DUCT DIAMETER. 2. TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF
- THE FLEXIBLE DUCT. 3. DUCTS SHALL BE INSTALLED FULLY EXTENDED, THE TOTAL EXTENDED LENGTH OF DUCT MATERIAL SHALL NOT EXCEED 5 PERCENT OF THE MINIMUM REQUIRED LENGTH FOR THAT RUN.
- D. TOILET EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET 26 GAUGE METAL DUCT INSTALLED IN ACCORDANCE WITH THE LATEST ASHRAE STANDARDS AND MANUFACTURERS RECOMMENDATIONS. METALAIRE OR AS APPROVED BY ENGINEER.
- E. ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION, TITUS, CONDENSATE DRAIN — SHALL BE INSULATED WITH 3/4" THICK ARMAFLEX. WHEN EXPOSED IN CONDITIONED SPACE. IF THE PIPE-RUN THRU A RETURN PLENUM, THEN AN COMBUSTIBLE MATERIAL IS TO BE PROVIDED IN PLENUM SIDE.
- G. MEP DESIGN SHALL MAINTAIN BUILDING STANDARDS IN BASE BUILDING.

1.5TON - 1.5TON

MINI SPLIT SYSTEM

MINISPLIT SYSTEM "UNIT A & D"

MR SLIM DUCTLESS MITSUBISHI OR EQUAL INDOOR UNIT "A1,D1" MSZ-A15NA INDOOR UNIT "A2,D2" MSZ-A15NA OUTDOOR UNIT "A,D" MXZ-3A30NA

INDOOR UNIT TOTAL COOLING 13.500/13.500 BTUH

9,900/9,900 BTUH HEATING CAPACITY 13,000/13,000 BTUH 16.0/16.0 SEER

HSPF 8.2/8.2 POWER 230/1/60 MCA1 AMP/1 AMP FUSE 15/15 AMP

AIR LOW 380CFM/380 CFM OUTDOOR UNIT

POWER 230/1/60 9.5 AMP FUSE 20 AMP

REF LINES (LIQ., GAS) 1/4", 1/2"

DIMENSIONS

INDOOR UNIT W : 30-11/16" D : 8-1/4" WEIGHT: 23 lbs H : 11-3/4"

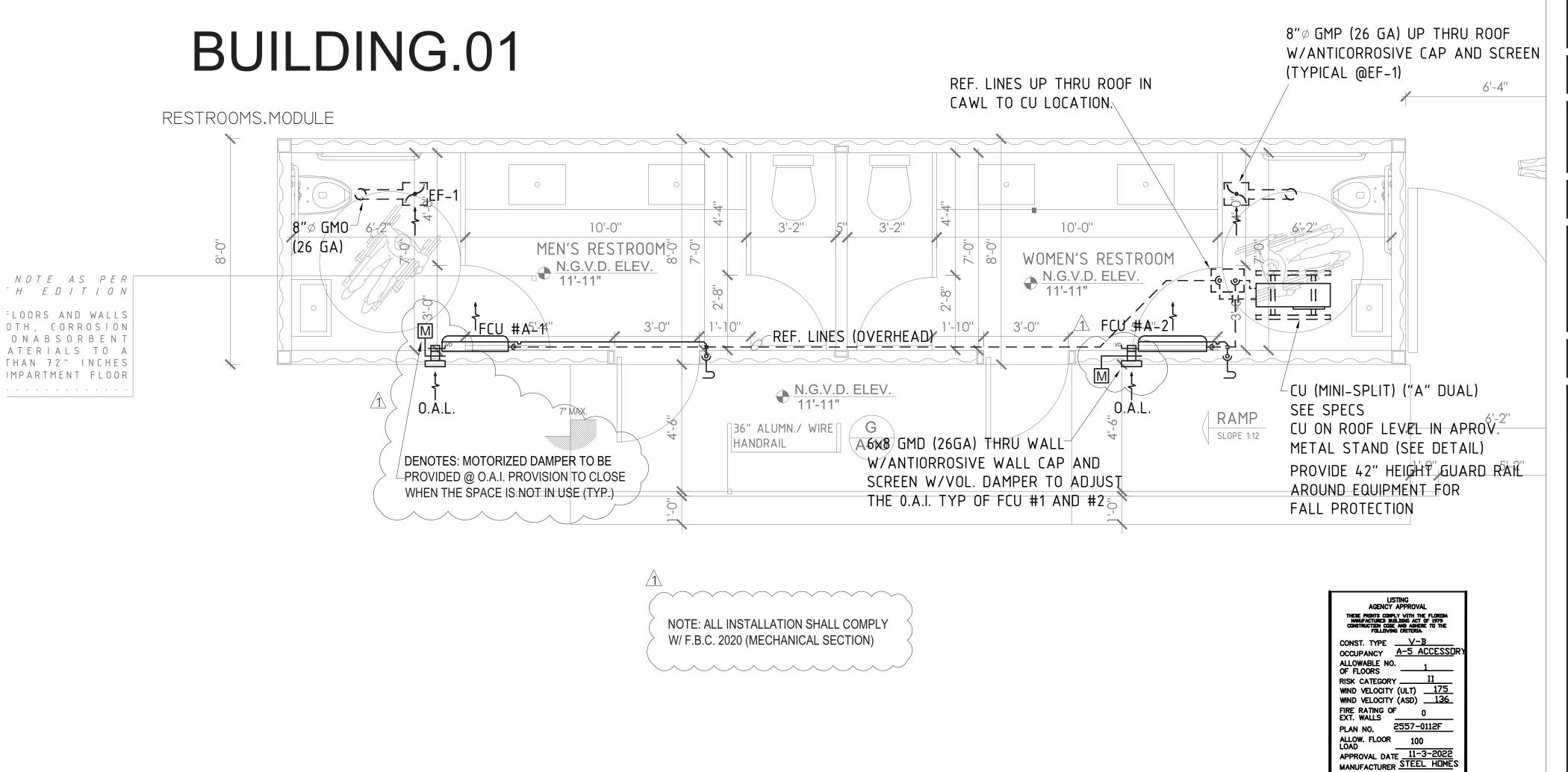
OUTDOOR UNIT

D : 13-3/16" H : 35-7/16"

W : 35-7/16" WEIGHT: 158 lbs

AREA (S.F.)	Rp(CFM/PERS) PEOPLE OUTDOOR AIR RATE	Rz(PERSON) ZONE POPULATION	Ra(CFM/FT²) AREA OUTDOOR AIR	Az(FT²) ZONE FLOOR AREA	EQUATION 4—1 (RpPz)+(RaAz)	TOTAL AIRFLOW RATE Vbc REQUIRED (CFM)	
FOR FC	FOR FC - A1 and A2 / CU-A						
BATHROOMS	312 SF X 5	O CFM/70 SF			(312×50)/70	222	
PROVIDE	PROVIDE 230 CFM OF OUTSIDE AIR INTAKE (*)						
FOR FC	FOR FC — D1 and D2 / CU—D						
RETAIL	7.5	7	0.12	428	(7.5X7)+(0.12X428)	104	
PROVIDE	PROVIDE 120 CFM OF OUTSIDE AIR INTAKE (*)						

^{*} PROVIDE MANUAL VOLUME DAMPER TO BE ADJUSTED TO OAI CFM.



EXHAUST FAN'S SPECS.

EF-1: TO BE "BROAN" CEILING EXHAUST FAN MODEL #505 MG 180 CFM DELIVERY @ 1/8 SP- 120/1/60 W/8" DUCT FLANGE AND BACKDRAFT DAMPER BUILT-IN - UL LISTED.

PROJECT

SW.CORNER.INTERSECTION SW.8THST.&.SW.20TH.AVE MIAMI.FL.33135

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ARCHITECT OF RECORD: RALPH PUIG JR. FL. ARCHITECT REG. # AR 0012528

HIGH VELOCITY YES

IIWG

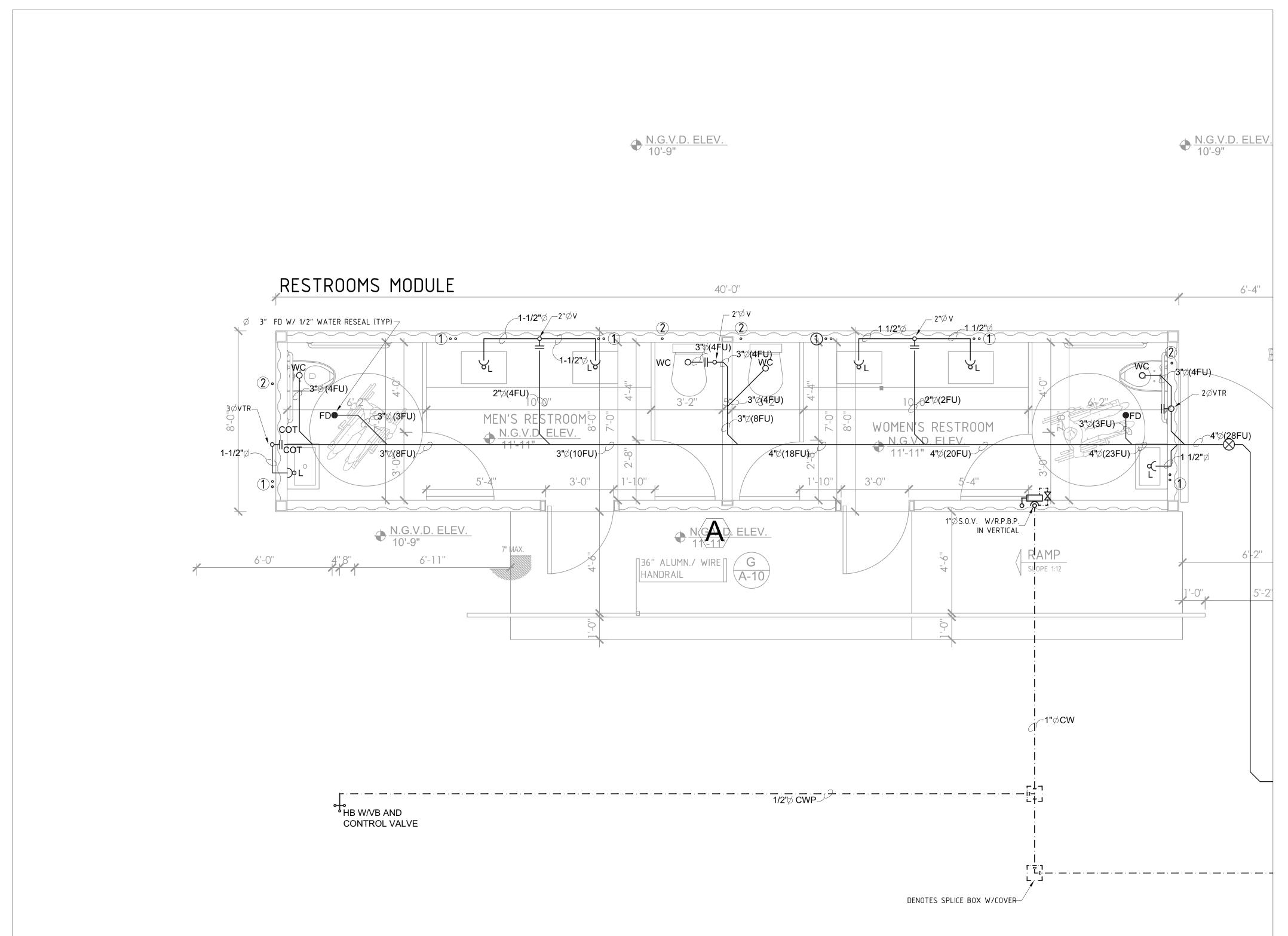
REVISIONS

DATE: 09/16/2022 Scale: AS SHOWN

Job No.: 2022 Drawn by: RP Checked by: RP Jr.

GROUND.FLOOR

BUILDING.01



NOTE: ALL PLUMBING INSTALLATION SHALL COMPLY W/ F.B.C. 2020

AGENCY APPROVAL

THESE PRINTS COMPLY WITH THE FLORIDA
INMUFACTURED BUILDING ACT OF 1979
CONSTRUCTION CODE AND AMBRE TO THE
FULLDWING CRITERIA.

CONST. TYPE V-B

OCCUPANCY A-5 ACCESSORY

ALLOWABLE NO.

OF FLOORS

RISK CATEGORY II

WIND VELOCITY (ULT) 175
WIND VELOCITY (ASD) 136
FIRE RATING OF
EXT. WALLS

PLAN NO. 2557-0112F

ALLOW. FLOOR
LOAD

APPROVAL DATE 11-3-2022

MANUFACTURER
HIGH VELOCITY
HURRICANE ZONE

MUR-261

PROJECT

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Checked by: RP Jr.

GROUND.FLOOR

4

P-1.0

GENERAL PLUMBING NOTES

- 1. ALL WORK SHALL CONFORM WITH ALL LOCAL, STATE, FEDERAL 2010 FBC ORDINANCES AND BUILDING CODES GOVERNING THE INSTALLATION OF THE PLUMBING SYSTEM. IF WORK AS LAID OUT, INDICATED OR SPECIFIED IS CONTRARY TO OR CONFLICTS WITH LOCAL ORDINANCES, BUILDING CODES AND REGULATIONS, THE CONTRACTOR SHALL REPORT IN WRITING TO THE ARCHITECT/ENGINEER BEFORE SUBMITTING A BID. THE ARCHITECT/ENGINEER WILL THEN ISSUE INSTRUCTIONS AS HOW TO PROCEED.
- 2. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL OF THE MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF ALL TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN MAXIMUM HEAD ROOM, AND SPACE CONDITIONS AT ALL POINTS. WHERE HEAD ROOM, OR SPACE CONDITIONS APPEAR INADEQUATE, ARCHITECT/ ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. THIS CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE FIELD MODIFICATION IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF VARIOUS TRADES OR FOR PROPER EXECUTION OF THE WORK.
- 3. EXAMINE ALL DRAWINGS CAREFULLY PRIOR TO SUBMITTING A BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND/OR CONNECT WITH APPROPRIATE SERVICES ALL PLUMBING ITEMS SHOWN ON ANY OF THE ARCHITECTURAL, AIR CONDITIONING, ELECTRICAL AND SPRINKLER DRAWINGS WITHOUT ADDITIONAL EXPENSE TO THE OWNER. IF DISCREPANCIES, CONFLICTS, INTERFERENCE OR OMISSIONS OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING THE ARCHITECT/ ENGINEER IN AMPLE TIME TO PERMIT REVISIONS BEFORE THE BIDS ARE SUBMITTED.
- 4. INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND FIRST CLASS WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT A NEAT AND WORKMANLIKE APPEARANCE. REMOVAL AND REPLACEMENT IS TO BE DONE IMMEDIATELY WHEN DIRECTED BY THE OWNER IN WRITING, AT THE SOLE EXPENSE OF CONTRACTOR.
- 5. START OF WORK BY CONTRACTOR SHALL BE CONSIDERED AS ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OF THE WORK OF OTHER. TRADES OR OTHER CONTRACTORS TO RECEIVE HIS WORK. THIS CONTRACTOR SHALL REMOVE AND REPLACE, AT HIS EXPENSE, ALL PLUMBING WORK WHICH MAY HAVE TO BE REMOVED BECAUSE OF INTERFERENCE WITH OTHER TRADES.
- 6. THIS CONTRACTOR SHALL OBTAIN AND PAY ALL INSURANCE, FEES, PERMITS, ASSOCIATION DUES, ROYALTIES AND TAXES OF WHATEVER NATURE SHALL APPLY TO THIS WORK. HE SHALL ALSO PAID ALL THE INSPECTION FEES AS MAY REQUIRED BY LAW OR ORDINANCE AND SHALL KEEP THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ARISING FROM ANY VIOLATION OF LAWS, RULES OR ORDINANCES.

- 7. PROVIDE MEANS "FURNISH AND INSTALL".
- 8. DO A COMPLETE JOB, EVERYTHING CONNECTED, READY FOR USE.
- 9. SHOP DRAWINGS: CONTRACTOR SHALL FURNISH THE ENGINEER WITH SHOP DRAWINGS OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL.
- 10. AT COMPLETION OF JOB THE PLUMBING CONTRACTOR SHALL GIVE THE OWNER AN AS—BUILT SET OF REPRODUCIBLE SEPIAS SHOWING THE EXACT LOCATION OF ALL INSTALLATIONS.
- 11. PLUMBING CONTRACTOR SHALL PRESSURE TEST ALL PIPING AS REQUIRED BY CODE. TEST SHALL BE WITNESSED AND APPROVED BY PROPER AUTHORITIES.
- 12. THE PLUMBING CONTRACTOR SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL WORK ACCEPTANCE BY OWNER. ANY BREAKDOWN OCCURRING IN FIRST YEAR SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER.
- 13. PROVIDE BATHROOM FIXTURES AS SPECIFIED.
- 14. PROVIDE SHUT-OFF VALVE FOR EACH FIXTURE.
- 15. WHEREVER NOT SIMILAR METALS ARE TO BE JOINED,
 A DI-ELECTRIC FITTING SHALL BE PROVIDED TO CONNECT BOTH
 TYPES OF PIPES.
- 16. PLUMBING CONTRACTOR SHALL PROVIDE AIR CONDITIONING CONDENSATE DRAIN AND TRAP. SEE AIR CONDITIONING PLANS FOR LOCATION OF UNITS AND DRAINS.
- 17. MATERIALS
- A. COLD WATER PIPING DOWNSTREAM OF WATER METER SHALL BE TYPE "L" COPPER BELOW GROUND AND TYPE "M" COPPER ABOVE GROUND.
- B. COLD WATER PIPES INSIDE OF SLAB SHALL BE TYPE "K" SOFT COPPER INSTALL INSIDE POLYETHYLENE CONDUIT. NO JOINTS PERMITTED INSIDE SLAB.
- C. SANITARY WASTE AND VENT 4"Ø AND SMALLER SHALL BE P.V.C., SCHEDULE 40.
- D. STORM LINES INSIDE BUILDING SHALL BE P.V.C. SCHEDULE 40
- E. IN COASTAL AREAS ALL SANITARY AND STORM PIPING OUTSIDE OF BUILDING SHALL BE SCHEDULE 40, PVC.
- F. CONDENSATE DRAIN PIPE SHALL BE SCHEDULE 40, PVC PIPE AND FITTINGS.
- G. WATER HEATER RELIEF AND DRAIN LINE SHALL BE TYPE "L" COPPER, MIN 3/4" DIA.

FIRE RATED PENETARATION NOTE

WHEN FIRE PENETRATION OF PIPING OCCUR, SHALL BE PROTECTED BY ASSEMBLY No. W-L-2088, UL APPRIVED

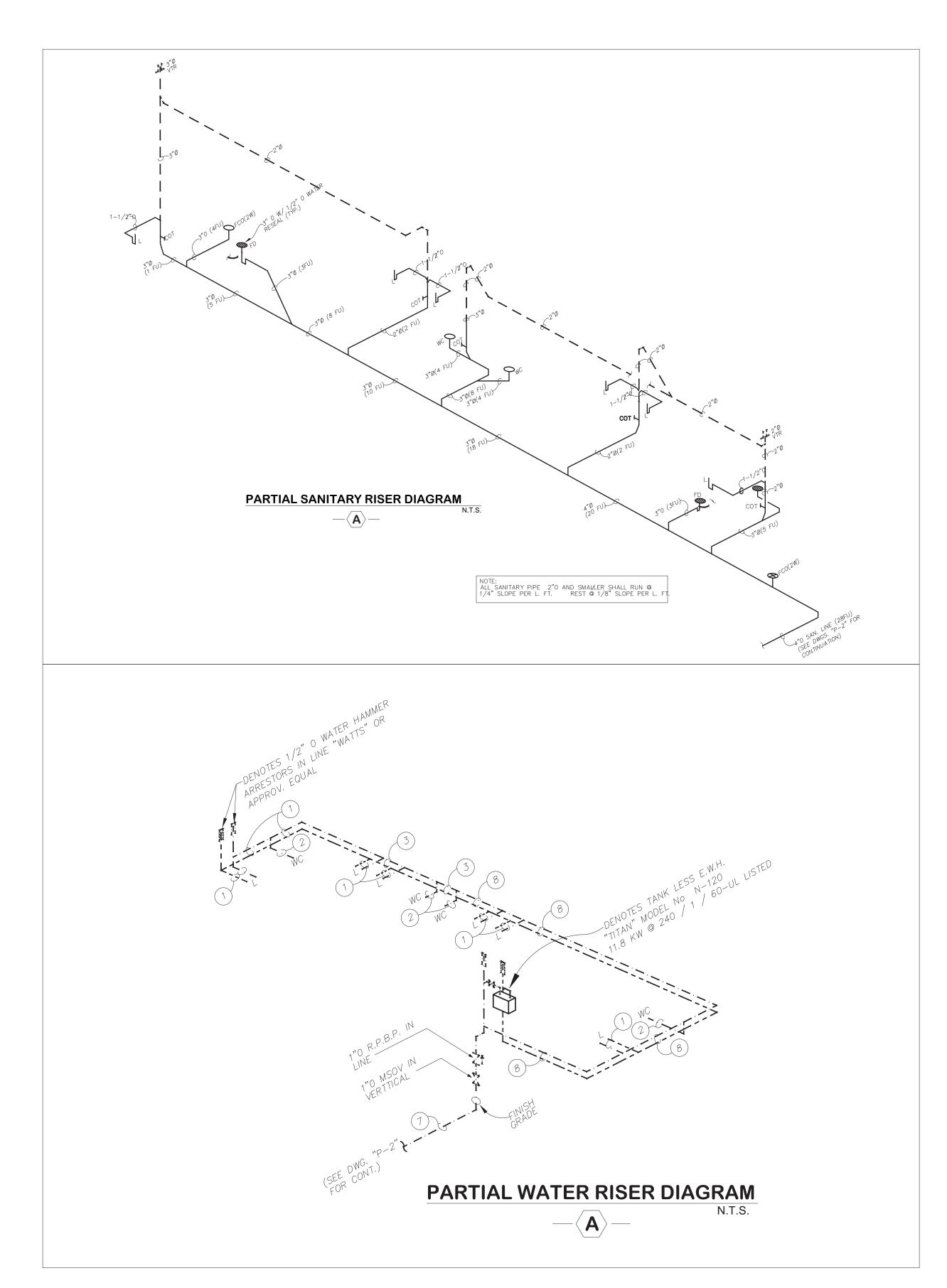
SITE INVESTIGATION NOTE

EXAMINATION OF CONTRACT DOCUMENTS AND SITE OF WORK: THE BIDDER IS REQUIRED, BEFORE SUBMITTING HIS PROPOSAL, TO VISIT THE SITE OF THE PROPOSED WORK AND FAMILIARIZE HIM OR HERSELF WITH THE NATURE AND EXTENT OF THE WORK AND ANY LOCAL CONDITIONS THAT MAY IN ANY MANNER AFFECT THE WORK TO BE DONE AND EQUIPMENT, MATERIALS AND LABOR REQUIRED THEREFORE. SINCE THE WORK INVOLVES NEW AND/OR EXISTING BUILDINGS, SYSTEMS AND FACILITIES, SPECIAL CONSIDERATION SHALL BE GIVEN TO EXAMINATION OF WORKING CONDITIONS, NEW FACILITIES AND ALL BUILDING STRUCTURES FAMILIARIZE TO HIMSELF WITH ALL EXISTING CONDITIONS. SLIGHT VARIATION OF ROUTING AND OR CONSTRUCTIONS SHOULD BE ANTICIPATED BY THIS CONTRACTOR TO AVOID CONFLICTS WITH OTHER TRADES. THESE VARIATIONS ARE EXPRESSLY INCLUDED AS PART OF THE WORK WHENEVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER. IGNORANCE ON THE PART OF THE CONTRACTOR WILL IN NO WAY RELIEVE HIM OF THE OBLIGATIONS AND RESPONSIBILITY ASSUMED UNDER THIS CONTRACT.

NOTE

ALL SANITARY PIPE 2" O OR SMALLER SHALL RUN @ ¼" SLOPE PER L. FT. REST @ ½" SLOPE PER L. FT.

	ND CONCUMPTION				
MAXIMUM FLOW RATE AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS					
PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR QUANTITY				
LAVATORY, PUBLIC	0.5 GPM @ 60 PSI				
LAVATORY, PUBLIC, METERING OR SELF-CLOSING	0.25 GALLONS PER METERING CYCLE				
SINK FAUCET	1.5 GPM @ 60 PSI				
WATER CLOSET	1.28 GALLON PER FLUSHING CYCLE				







PROJECT

SW.CORNER.INTERSECTION SW.8THST.&.SW.20TH.AVE MIAMI.FL.33135

OWNER

ARCHITECT

NANDEZ Design+Development

2223 SW 13Th AVE MIAMI, FL 33145 tel:786.703.7704 info@nandezdd.com AA 26002732 IB 26001520



CONST. TYPE V-B

OCCUPANCY

A-5 ACCESSIO

RISK CATEGORY II
WIND VELOCITY (ULT) 175
WIND VELOCITY (ASD) 136

PLAN NO. 2557-0112F

APPROVAL DATE 11-3-2022
MANUFACTURER STEEL HOME

IIWG

HIGH VELOCITY
HURRICANE ZONE YES

ALLOWABLE NO. 1

FIRE RATING OF 0 EXT. WALLS _____0

ALLOW. FLOOR 100

ARCHITECT OF RECORD:
RALPH PUIG JR.
FL. ARCHITECT REG. #
AR 0012528

REVISIONS

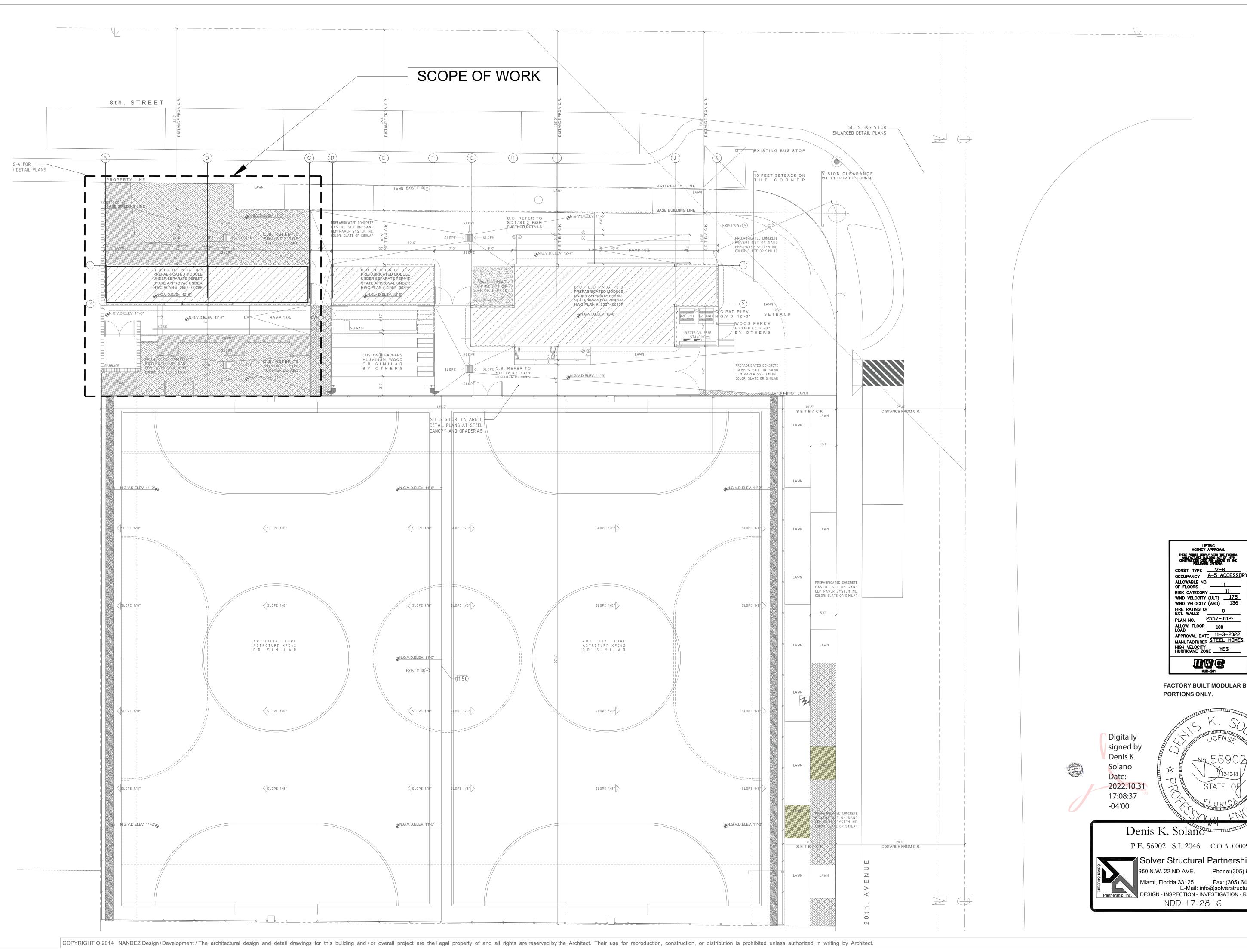
DATE: 09/16/2022 Scale: AS SHOWN

Job No.: 2022
Drawn by: RP
Checked by: RP Jr.

GROUND.FLOOR

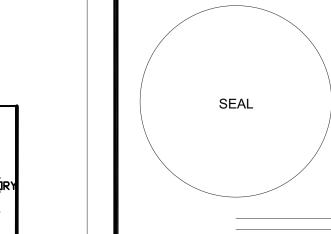
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ARCHITECT OF RECORD: RALPH PUIG JR. FL. ARCHITECT REG. # AR 0012528

REVISIONS

FACTORY BUILT MODULAR BUILDING

DATE: 12-10-2018 Scale: AS SHOWN Job No.:NDD-17-2816 Drawn by:A.S.G Checked by:D.K.S

Denis K. Solano

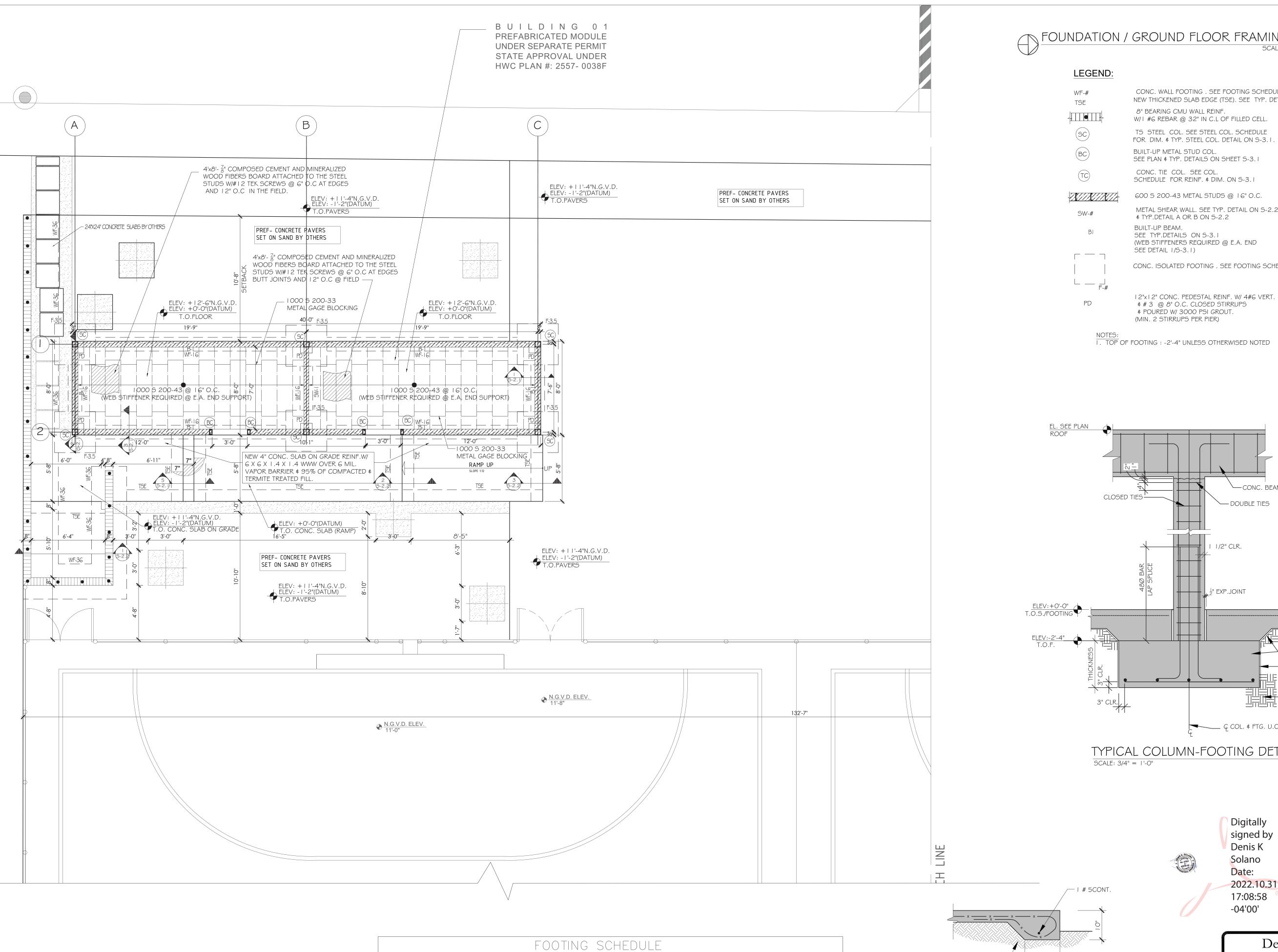
P.E. 56902 S.I. 2046 C.O.A. 00009095

|Solver Structural Partnership, Inc. 950 N.W. 22 ND AVE. Phone:(305) 643-8699 Miami, Florida 33125 Fax: (305) 643-8692 E-Mail: info@solverstructural.com

Partnership, Inc.

DESIGN - INSPECTION - INVESTIGATION - REPORTS

NDD-17-2816



95% COMPACTED FILL.-TYPICAL THICKENED SLAB EDGE (TSE) DETAIL SCALE: 3/4" = 1'-0"

NOTE: OTHERWISE NOTED ON SECTION.

FOUNDATION / GROUND FLOOR FRAMING PLAN SCALE: 1/4" = 1'-0"

CONC. WALL FOOTING . SEE FOOTING SCHEDULE ON S-1.2 NEW THICKENED SLAB EDGE (TSE). SEE TYP. DETAIL ON S-1.2

W/I #6 REBAR @ 32" IN C.L OF FILLED CELL.

TS STEEL COL. SEE STEEL COL. SCHEDULE FOR DIM. \$ TYP. STEEL COL. DETAIL ON S-3.1

SEE PLAN \$ TYP. DETAILS ON SHEET S-3.1

SCHEDULE FOR REINF. \$ DIM. ON S-3.1

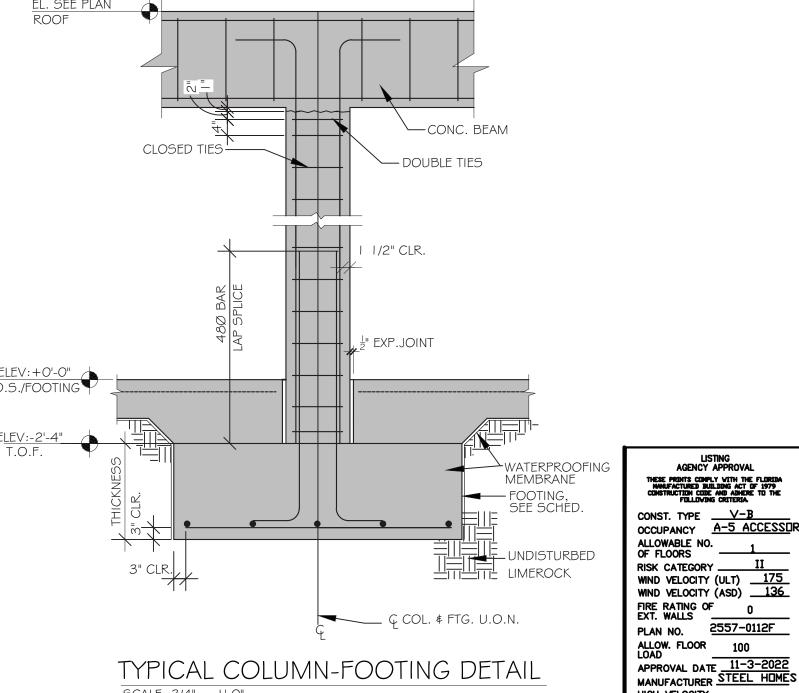
METAL SHEAR WALL. SEE TYP. DETAIL ON S-2.2 \$ TYP.DETAIL A OR B ON S-2.2

(WEB STIFFENERS REQUIRED @ E.A. END

CONC. ISOLATED FOOTING. SEE FOOTING SCHEDULE ON S-1.2

12"x12" CONC. PEDESTAL REINF. W/ 4#6 VERT. \$ # 3 @ 8" O.C. CLOSED STIRRUPS \$ POURED W/ 3000 PSI GROUT.

I. TOP OF FOOTING: -2'-4" UNLESS OTHERWISED NOTED



MUR-261

HIGH VELOCITY YES

Denis K. Solano

P.E. 56902 S.I. 2046 C.O.A. 00009095

Solano

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ARCHITECT OF RECORD:

FL. ARCHITECT REG. #

RALPH PUIG JR.

REVISIONS

06/14/18 B.D.C.

DATE: 12-10-2018

Drawn by:A.S.G

Checked by:D.K.S

Scale: AS SHOWN

Job No.:NDD-17-2816

AR 0012528

2223 SW 13Th AVE

MIAMI, FL 33145

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BOTTOM REINFORCEMENT

2#5 CONT.

4#5 CONT.

5#5 E.W.

1#5 CONT.

TOP REINFORCEMENT

4#5 CONT.

5#5 E.W.

REMARKS

4 @ 24" O.C. TRANSV. BOTT

SEE TYP. DETAIL ON THIS SHEET

∮ 5 @ 10" O.C. TRANSV.TOP &B|OTT

DIMENSION

16"x 16" x CONT.

36"x 16" x CONT.

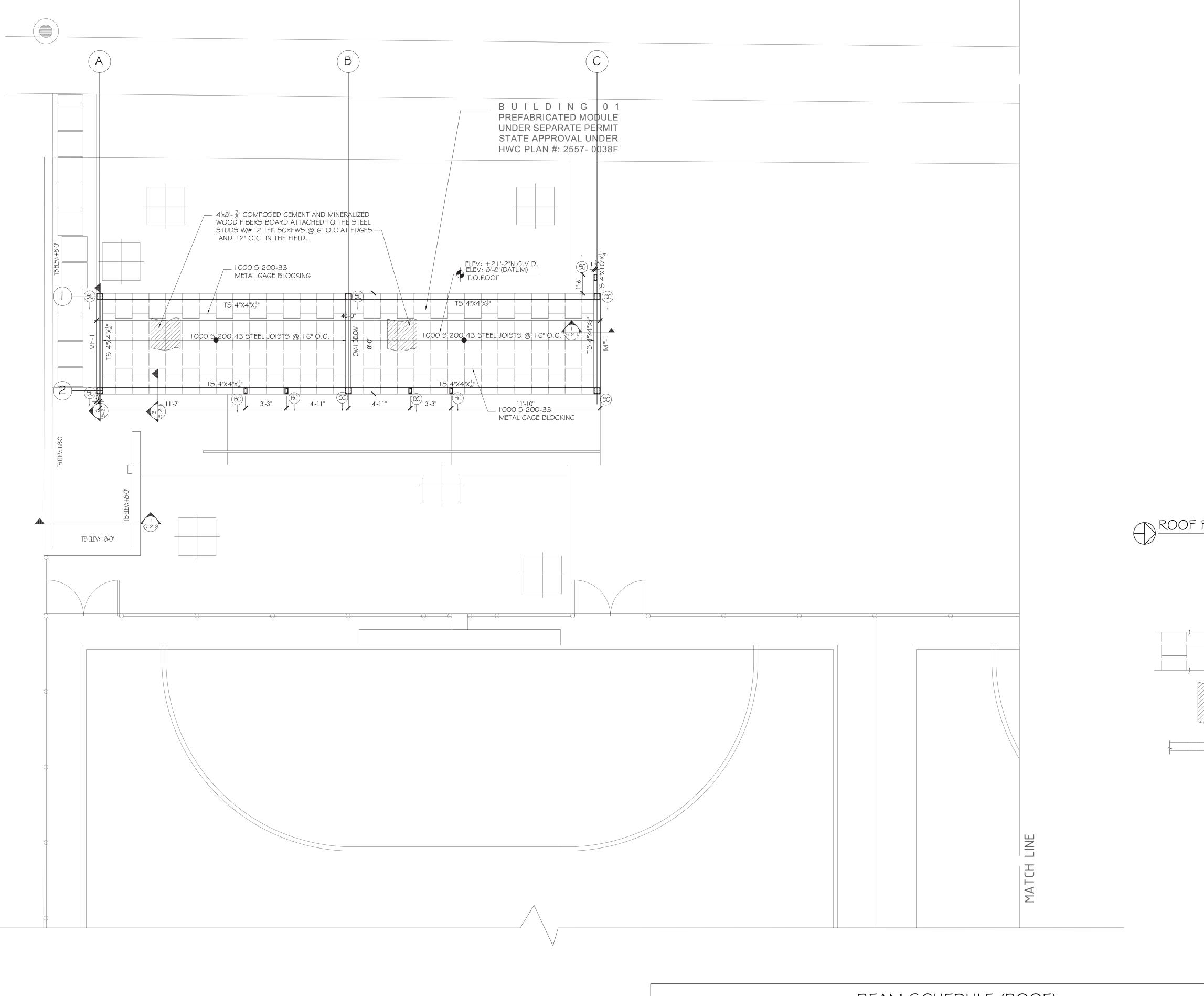
12"x 10" x CONT.

 $3'-6" \times 3'-6" \times 12"$

FOOTING

TSE

WF-16



BEAM SCHEDULE (ROOF) SIZE BOTT.CONT. "T" TOP CONT. "C" BARS "E" BARS
B x D No. SIZE No. SIZE No. SIZE No. SIZE ELEV. (TO.B) MARK REMARKS STIRRUPS

4 # 3 @ 12" @ CORNERS; BAL 40" O.C



LEGEND:

BUILT-UP METAL STUD COL. ENDING BELOW SEE PLAN \$ TYP. DETAIL ON S-3. I

STEEL COLUMN ENDING BELOW SEE PLAN \$ TYP. DETAIL ON S-3.1

1000 5 200-33 METAL GAGE BLOCKING

PROVIDE #3@5" O.C AT OPENINGS

SEE TYP. TB CORNER DETAIL ON S-10

4'x8'-7" COMPOSED CEMENT AND MINERALIZED WOOD FIBERS BOARD ATTACHED TO THE STEEL STUDS W/# | 2 TEK SCREWS @ 6" O.C AT EDGES AND 12" O.C IN THE FIELD.

CONCRETE TIE BEAM SEE BEAM SCHEDULE FOR DIM & REINF. ON THIS SHEET

CONC. TIE COL. ENDING BELOW



CONST. TYPE V-B
OCCUPANCY A-5 ACCESSUR

RISK CATEGORY II
WIND VELOCITY (ULT) 175
WIND VELOCITY (ASD) 136

APPROVAL DATE 11-3-2022
MANUFACTURER STEEL HOMES

IIWG

ALLOW. FLOOR 100

HIGH VELOCITY
HURRICANE ZONE YES

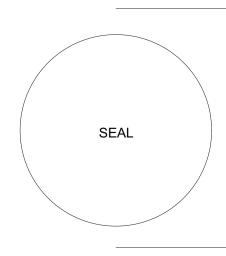
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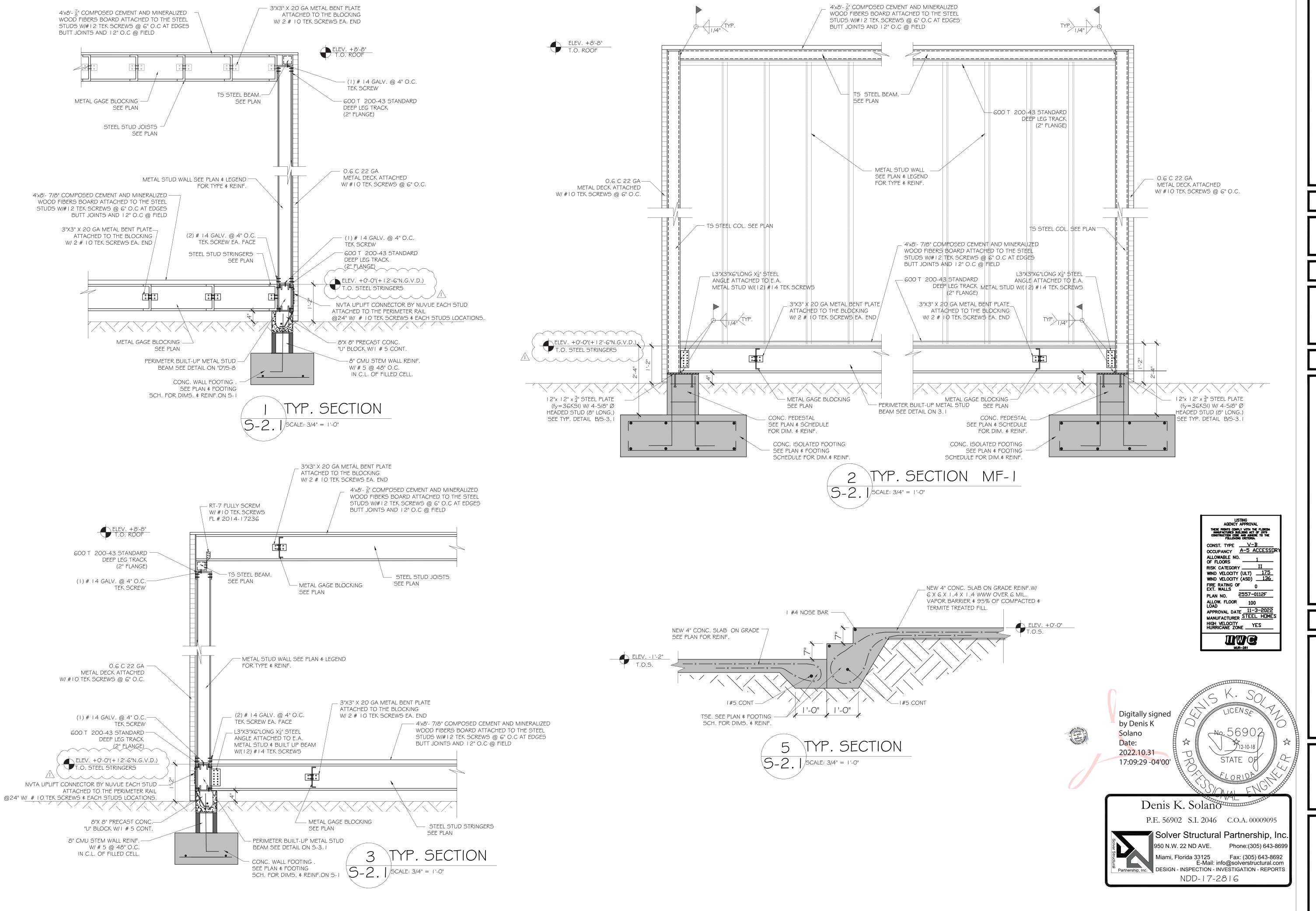
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DATE: 12-10-2018 Scale: AS SHOWN Job No.:NDD-17-2816 Drawn by:A.S.G Checked by:D.K.S

TB SEE PLAN

8" x 12" 2 5 2 5



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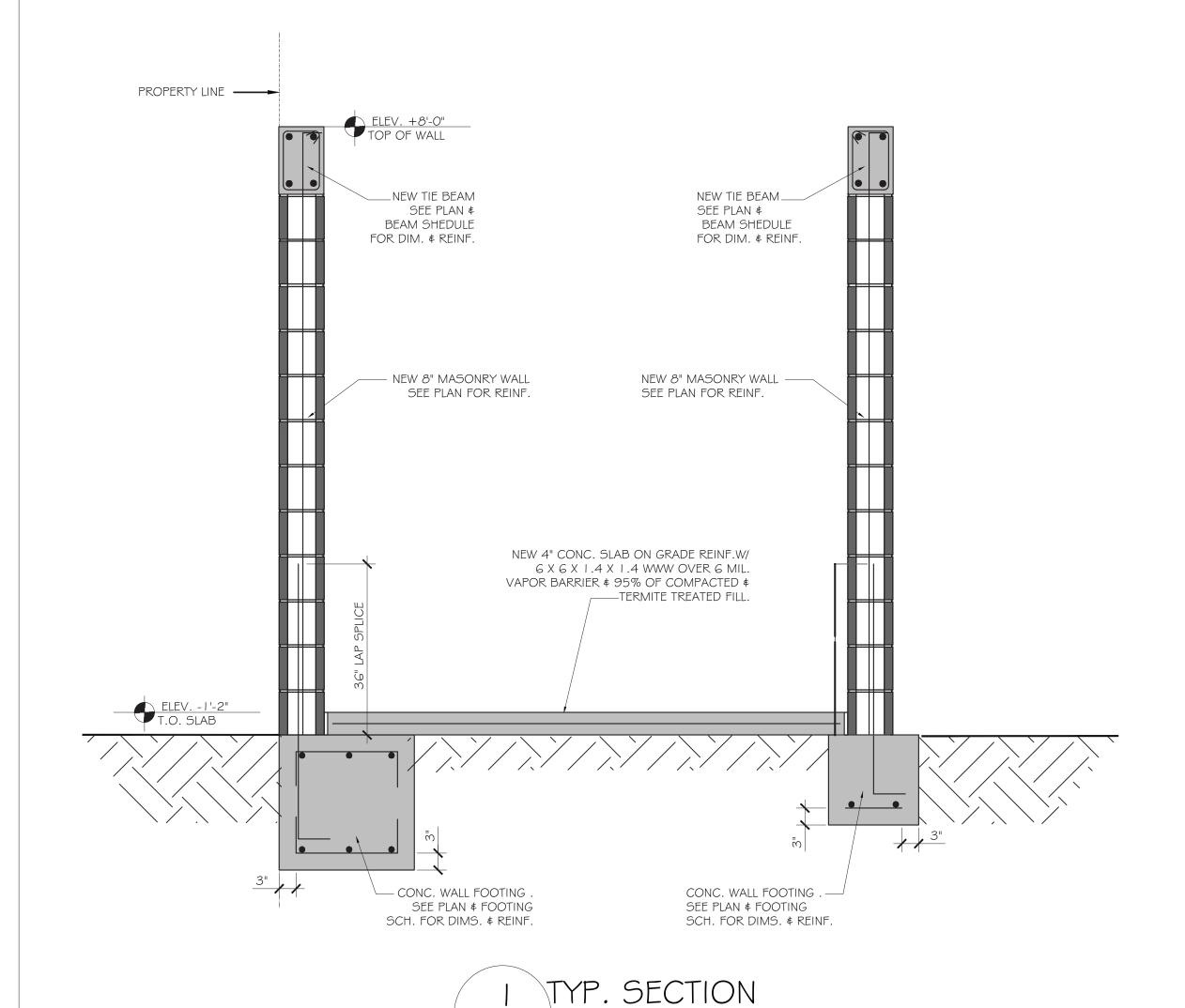
06/14/18 B.D.C

DATE: 12-10-2018 Scale: AS SHOWN Job No.:NDD-17-2816 Drawn by:A.S.G

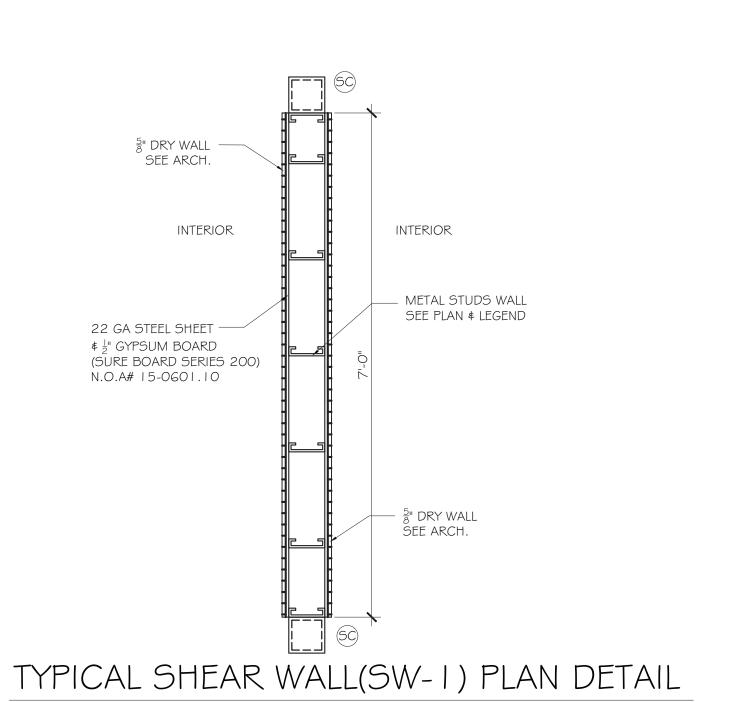
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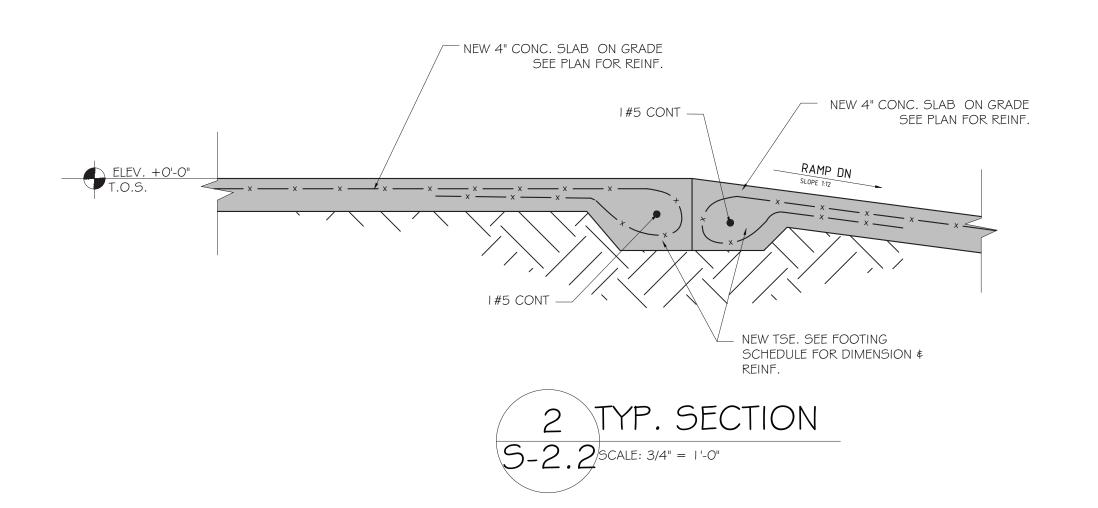
S-2.1

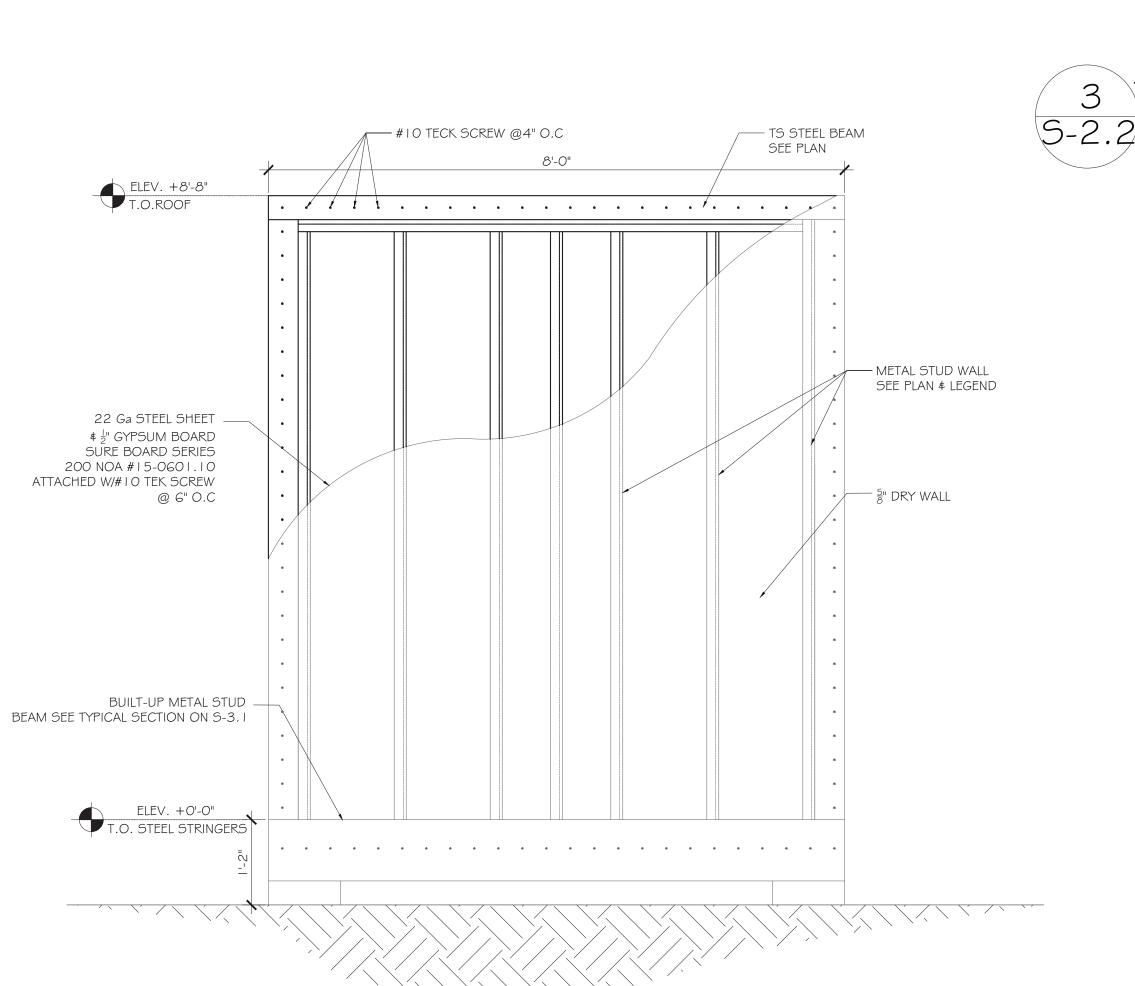
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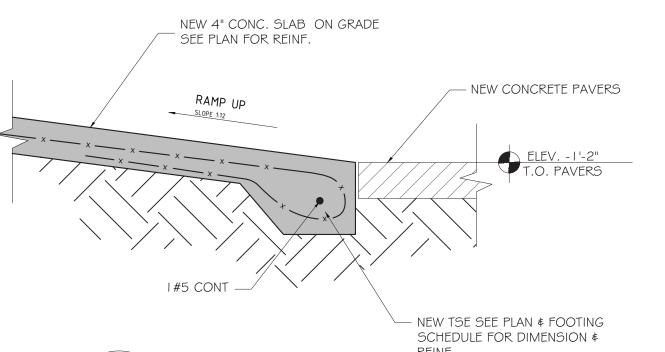
SCALE: 3/4" = 1'-0"



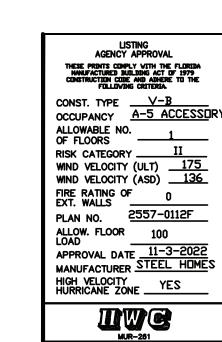








3 TYP. SECTION 5-2.2 SCALE: 3/4" = 1'-0"



APPROVAL COVERS FACTORY BUILT
MODULAR BUILDING ONLY. SITE BUILT
ITEMS INCLUSIVE OF FOUNDATION SYSTEM
IS SUBJECT TO LOCAL AUTHORITY APPROVA

Digitally signed by Denis K Solano Date: 2022.10.31 17:09:44

-04'00'

IS SUBJECT TO LOCAL AUTHORITY APPROVAL

A0.5690

STATE OF CORIDARITH CORIDARI

DATE: 12-10-2018
Scale: AS SHOWN
Job No.:NDD-17-2816
Drawn by:A.S.G
Checked by:D.K.S

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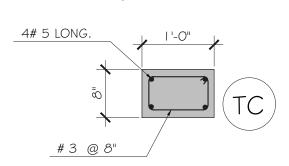
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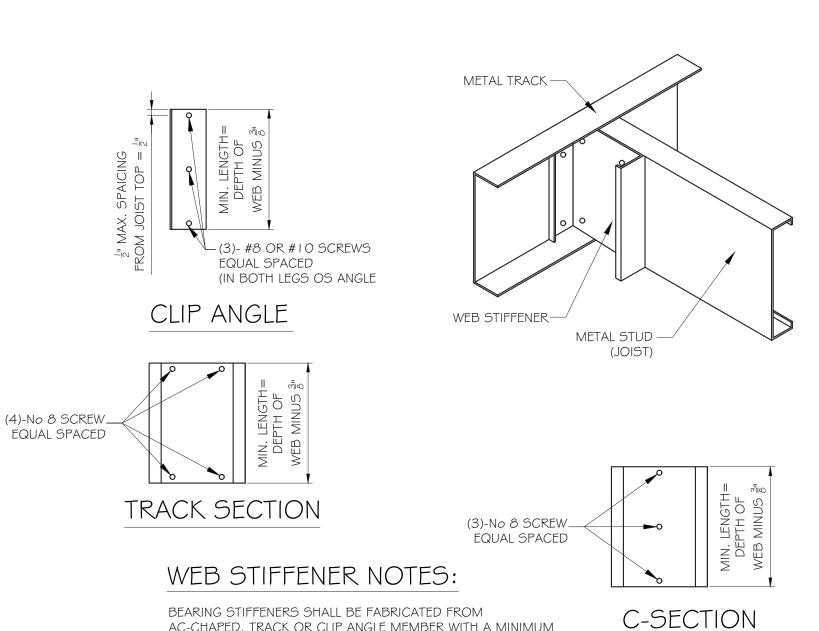
	S	TEEL COLUMN	SCHEDULE	
MARK	SIZE	BASE PLATE	CAP PLATE	REMARKS
SC	5"× 5" × 3/8"	12"x 12" x3/4"	6" x 6" x 1/4"	SEE DETAIL ON THIS SHEET

CONCRETE COLUMN SCHEDULE								
MARK	DIMS	LONG REINF.	TRANSV REINF.	REMARKS				
TC	8" X 2"	4 # 5	#3 @ 8" O.C.	CONCRETE COLUMN				

COLUMN DIAGRAM

SCALE: 3/4" = 1'-0"





AC-CHAPED, TRACK OR CLIP ANGLE MEMBER WITH A MINIMUM SIZE THAT IS IN CONCORDANCE WITH THE ONE OF FOLLOWING:

I - C-CHAPED BEARING STIFFENERS:

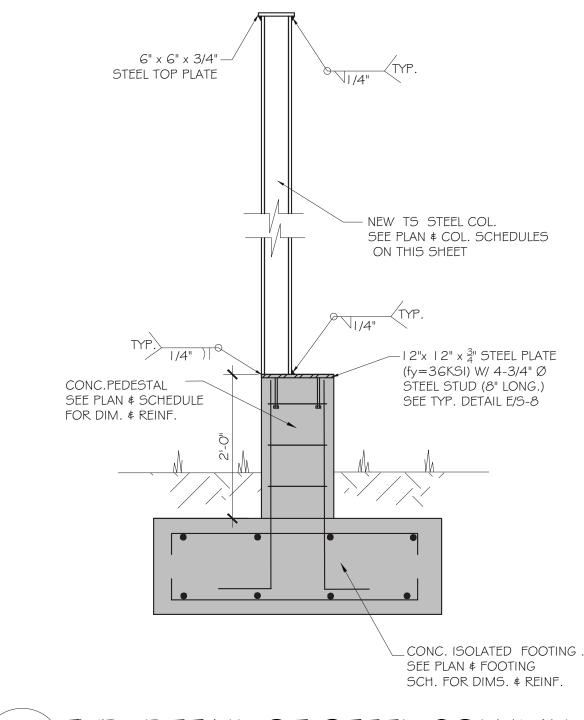
(a) WHERE THE JOIST IS NOT CARRYING A STRUCTURAL WALL ABOVE, THE BEARING STIFFENER SHALL BE A MINIMUM 33 MIL (0.84 mm) THICKNESS.
(b) WHERE THE JOIST IS CARRYING A STRUCTURAL WALL ABOVE, THE BEARING STIFFENER SHALL BE AT LEAST THE SAME DESIGNATION THICKNESS AS THE WALL STUD ABOVE.

2 - TRACK BEARING STIFFENERS:
(a) WHERE THE JOIST IS NOT CARRYING A STRUCTURAL WALL ABOVE, THE BEARING STIFFENER SHALL BE A MINIMUM 43 MIL (1.09 mm) THICKNESS.
(b) WHERE THE JOIST IS CARRYING A STRUCTURAL WALL ABOVE THE BEARING STIFFENER SHALL BE AT LEAST ONE DESIGNATION THICKNESS GREATER THAN THE WALL STUD ABOVE.

3 - CLIP ANGLE BEARING STIFFENERS:

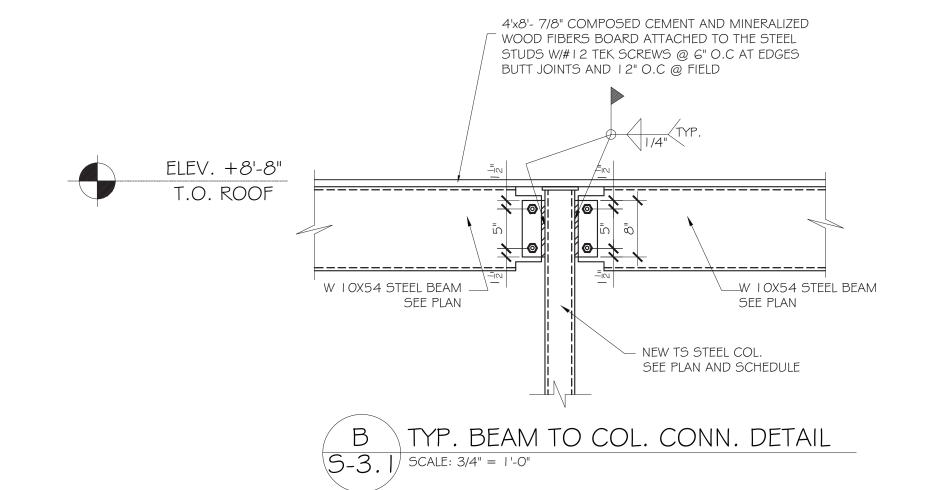
(a) WHERE THE CLIP ANGLE BEARING STIFFENER IS FASTENED TO BOTH THE WEB OF THE MEMBER IT IS STIFFENING AND AN ADJACENT RIM TRACK USING THE FASTENER PATTERN SHOW IN CLIP ANGLE DETAIL, THE BEARING STIFFENER SHALL BE A MINIMUM 2" x 2" (5 I mm x 5 I mm) ANGLE SIZED IN ACCORDANCE WITH TABLES B2-1 THROUGH B2-4 AISI STANDARD.

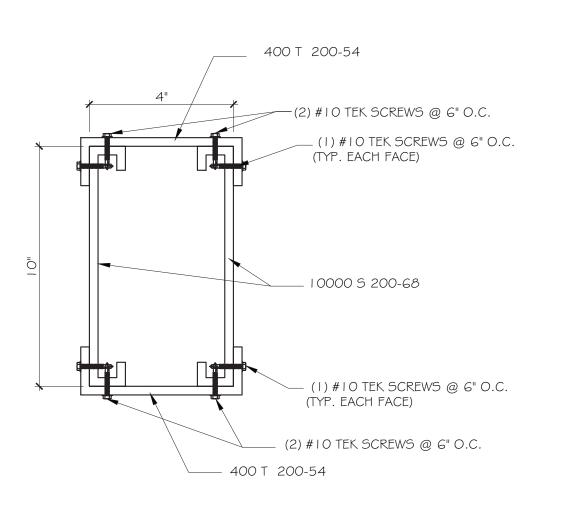




A TYP. DETAIL OF STEEL COLUMN.

S-3. I NOTE: EXTERIOR STEEL COLUMN AND PLATES MUST BE HOT DIPPED GALVANIZED. SCALE: 3/4" = 1'-0"

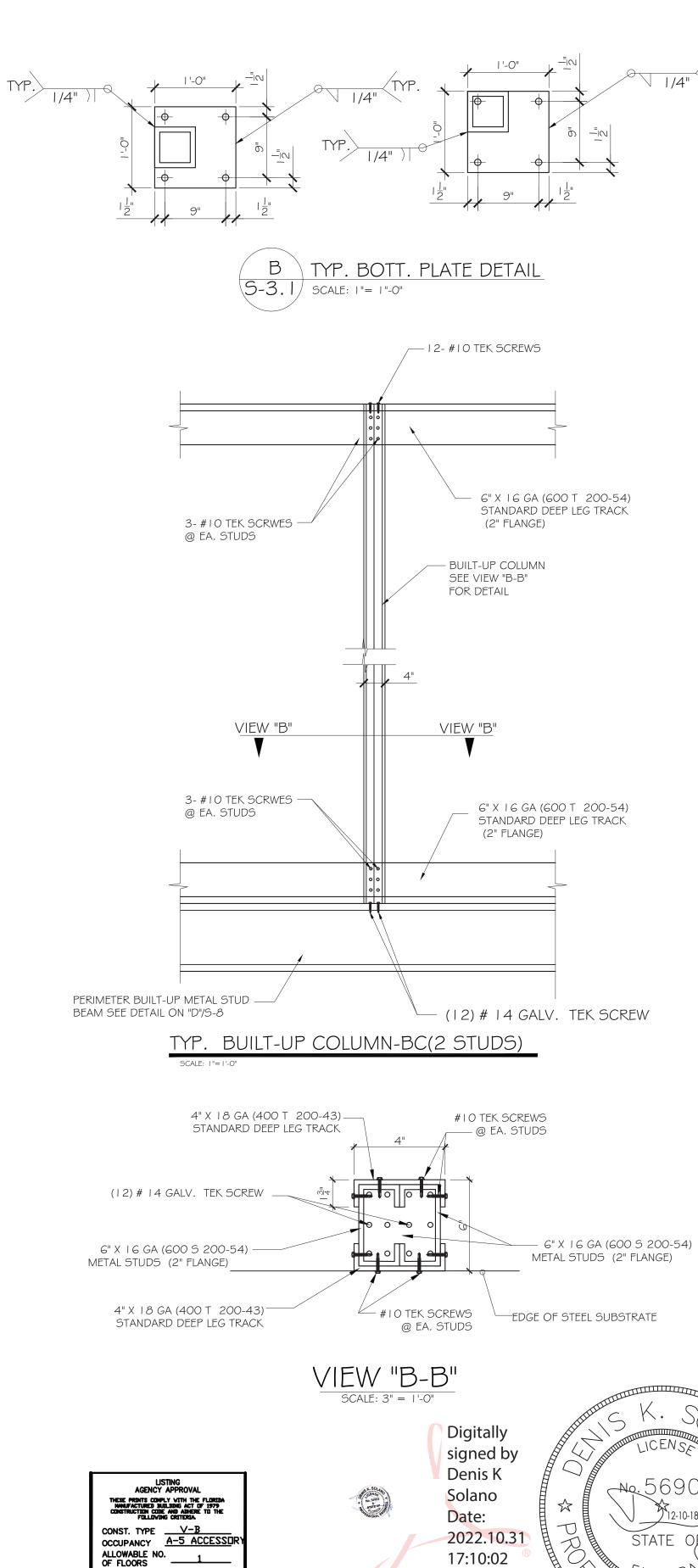




BUILT-UP BEAM (B-1)

SCALE: 3"= 1'-0"

NOTE: WEB STIFFENERS REQUIRED @ E.A END
SEE DETAIL 1/S-3.1.





Miami, Florida 33125

33125 Fax: (305) 643-8692 E-Mail: info@solverstructural.com

DESIGN - INSPECTION - INVESTIGATION - REPORTS

NDD-17-2816

DATE: 12-10-2018 Scale: AS SHOWN Job No.:NDD-17-2816 Drawn by:A.S.G

Checked by:D.K.S

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ARCHITECT OF RECORD:

FL. ARCHITECT REG. #

RALPH PUIG JR.

REVISIONS

AR 0012528

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> AA 26002732 IB 26001520

S-3.1

STRUCTURAL NOTES

FOUNDATION:

- A. FOUNDATION SYSTEM CONSISTS OF SPREAD FOOTINGS DESIGNED FOR AN ALLOWABLE
- SOIL BEARING PRESSURE OF 2000 PSF. B. SOIL STATEMENT: SOIL AT THIS SITE IS SAND # ROCK ADEQUATE TO SUPPORT THE DESIGN LOAD OF 2000 PSF. AFTER EXCAVATION SIGNED AND SEALED LETTER WILL BE SUBMITTED BY THE ARCHITECT OR THE ENGINEER ATTESTING THAT THE SITE HAS BEEN OBSERVED AND
- THE FOUNDATION CONDITIONS ARE SIMILAR TO THOSE WHICH THE DESIGN IS BASED ON. C. ALL EDGE DISTANCES SHALL BE MAINTAINED IN ACCORDANCE WITH THE STRUCTURAL PLANS REGARDLESS OF THE MINIMUM TOLERANCES.

GENERAL:

- A. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE, 2020 EDITION, ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS, THE ACI 318-19 BUILDING CODE, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES.
- B. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES AFFECTING NEW CONSTRUCTION BEFORE COMMENCING ANY WORK. ANY VARIATIONS IN ACTUAL FIELD CONDITIONS/DIMENSIONS FROM THOSE SHOWN IN THE CONTRACT DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR DETERMINING THE NEED OF REDESIGN PRIOR TO CONTRACTOR'S SUBMITTAL OF SHOP WORKING DRAWINGS FOR REVIEW.
- C. THESE DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, AIR CONDITIONING, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK
- D. WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY 5. REINFORCING STEEL: EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.
- E. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS CONSTRUCTION DOCUMENTS WITH THE REVISED DRAWINGS AND SPECIFICATIONS, FIELD ORDERS, CHANGE ORDERS AND CLARIFICATION SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.
- F. TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE. CONSTRUCTION DETAILS AND SECTIONS NOT COMPLETELY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS AND SECTIONS SHOWN OR NOTED FOR SIMILAR CONDITIONS.
- G. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
- H. BACKFILL AROUND THE EXTERIOR PERIMETER OF WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. DO NOT PROCEED WITH BACKFILL UNTIL (7) DAYS AS A MINIMUM AFTER THE COMPLETION OF EARTH... INTERIOR FLOOR SYSTEM UNLESS WALLS ARE ADEQUATELY BRACED. BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING WHERE WATERPROOFING OCCUR.
- I. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.
- J. REINFORCING STEEL SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
- K. THE CONTRACTOR SHALL SUPPLY THE ENGINEER THREE COPIES OF SHOP DRAWINGS A MINIMUM OF ONE WEEK PRIOR TO PLACEMENT. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT INFER THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.
- L. SUBMITTALS TO STRUCTURAL ENGINEER: I. CONCRETE TEST REPORT FOR CAST-IN-PLACE CONCRETE AS PER 3 | 8-19.
 - II. REINFORCING STEEL SHOP DRAWINGS. III. RAILING SHOP DRAWINGS AND DESIGN DATA.
 - IV. WOOD TRUSSES LAYOUT, SHOP DRAWINGS AND ALL DESIGN DATA.
- V. STRUCTURAL STEEL SHOP DRAWINGS, ERECTION DRAWINGS.

3. CONCRETE:

- A. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-2020 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 5000 PSI FOR GRADE BEAMS, COLUMNS, SLABS AND ROOF BEAMS. C. FORMWORK SHALL COMPLY WITH ACI 347-14, " RECOMMENDED PRACTICE FOR CONCRETE
- E. THE OWNER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY TO PER-FORM
- D. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
- CONCRETE CYLINDER TESTS AS FOLLOWS: FOUR CYLINDER TESTS FOR ANY 50 CUBIC YARDS OF CONCRETE POURED, OR THREE CYLINDER TESTS PER ANY DAYS POUR LESS THAT 50 CUBIC YARDS. ONE CYLINDER SHALL BE TESTED AT 7 DAYS AND TWO AT 28 DAYS.
- F. TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI
- G. CONCRETE MIX FOR BALCONIES SHALL HAVE ALL CORROSION INHIBITING ADDITIVES \$ A MINIMUM CONCRETE COMPRESSIVE STRENG OF 3000 PSI

4. CONCRETE MASONRY WORKS:

- A. ALL CONCRETE MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI
- B. ALL CONCRETE MASONRY WALLS ARE DESIGNED AS LOAD BEARING WALLS, UNLESS OTHERWISE NOTED, AND SHALL BE IN PLACE BEFORE THE SLABS AND BEAMS SUPPORTED BY THEM ARE POURED AS WELL AS THE CONCRETE TIE COLUMNS FRAMING
- C. ALL CONCRETE MASONRY UNITS (C.M.U.) SHALL CONFORM TO ASTM C 90 "STANDARD SPECIFICATIONS FOR HOLLOW LOA BEARING CONCRETE MASONRY UNITS".
- D. MORTAR SHALL CONFORM TO ASTM C 270, TYPE "M", WITH A MINIMUM AVERAGE STRENGTH OF 2500 PSI.
- CONCRETE MASONRY STRENGTH, fm, SHALL BE A MINIMUM OF 1500 PSI (fc=1900
- VERTICAL REINFORCING IN C.M.U. CELLS SHALL BE SPLICED WITH 48 BAR DIAMETER LAP SPLICE, PROVIDE CLEAN OUT HOLES AT BASE OF FILLED CELLS FOR LAP INSPECTION AND VERIFYING THAT THE CELLS HAVE BEEN FILLED SOLID WITH GROUT.
- G. FILLED CELLS SHALL BE FILLED WITH 3000 PSI GROUT AS PER ACI 530-13 AND ACI 530.1-13. FILLING OF CELLS SHALL BE DONE IN FOUR FOOT LIFTS WITH A MAXIMUM POUR OF 12 FEET. USE MECHANICAL VIBRATION TO ACHIEVE GROUT-FILLED SOLID CELLS. GROUT SHALL CONFORM TO ASTM C 476. SLUMP SHALL BE BETWEEN 8" AND
- H. ALL C.M.U. WALLS SHALL BE HORIZONTALLY REINFORCED WITH STANDARD NO. 9 LADDER-TYPE GALVANIZED STEEL REINFORCING EVERY SECOND COURSE. EXTEND REINFORCING A MINIMUM OF 4 INCHES INTO TIE COLUMNS.

- A. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH FBC 2020
- B. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A 615-2010 (SI) GRADE 60.
- C. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185-94.
- D. REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.
- ALL TOP REINFORCING SHALL TERMINATE WITH STANDARD HOOKS AT DISCONTINUOUS EDGES OR ENDS.
- ALL BOTTOM BARS SHALL BEAR 6" MINIMUM OVER SUPPORTS, U.O.N. G. ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPPED 30 DIA. AT SPLICES
- AND CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS, U.O.N.
- H. MINIMUM CONCRETE COVER FOR REINFORCEMENT: I. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO
- II. CONCRETE EXPOSED TO EARTH OR WEATHER #G BARS AND LARGER. #5 BARS AND SMALLER..
- III. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: SLABS AND WALLS ..
- BEAMS AND COLUMNS.. IV. EXTERIOR CONCRETE BALCONY
- SLABS..

7. STRUCTURAL STEEL:

- A. STRUCTURAL STEEL SHALL COMPLY WITH AISC 360 "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION FOR STRUCTURAL STEEL BUILDINGS. LAST EDITION 2020 (7TH EDITION).
- STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO ASTM A 36, Fy 36 KSI.
- STRUCTURAL STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B, Fy=50 KSI.
- STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53, TYPE S, GRADE B, FY=35 KSI ANCHOR BOLTS SHALL CONFORM TO EITHER ASTM A 307 OR ASTM A 36.
- FRAMING BOLTS SHALL CONFORM TO ASTM 325, WITH HARDENED WASHERS AND HEX NUTS.

8. WELDING:

- A. WELDING SHALL BE DONE WITH E-70 ELECTRODES.
- B. WELDERS SHALL BE AWS-CERTIFIED.

9. WOOD FRAMING:

- A. WOOD FRAMING MEMBERS OTHER THAN TRUSSES SHALL BE #2 SOUTHERN PINE WITH A FIBER
- BENDING STRESS AS PER NDS.

B. SIZES SHOWN ARE NOMINAL.

- MEMBERS SHALL BE FREE OF CRACKS AND KNOTS. MOISTURE CONTENT SHALL BE 19% OR LESS.
- PRESSURE-TREATED WOOD SHALL BE USED ONLY WHERE SPECIALLY NOTED IN THE DRAWINGS. NO FRAMING MEMBER SHALL BE OF PRESSURE-TREATED WOOD, UNLESS OTHERWISE NOTED.
- 10. BALCONY AND TERRACE RAILINGS AND STAIR RAILINGS SHALL BE DESIGNED BY MANUFACTURER'S REGISTERED ENGINEER IN THE STATE OF FLORIDA TO RESIST A LOAD OF 50LBS/FT. APPLIED IN ANY DIRECTION AT TOP OF SUCH BARRIER. POSTS SHALL BE DESIGNED TO RESIST THE REACTION FROM THE RAILINGS OR A MINIMUM LOAD OF 200 LBS. HANDRAILS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST A LOAD OF NOT LESS THAN 200 LBS. APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE RAIL.

II. ROOF SHEATHING:

- A. PLYWOOD ROOF SHEATHING SHALL HAVE A NET THICKNESS OF NOT LESS THAN 5/8" WHEN THE SPAN IS NOT MORE THAN 24" AND SHALL HAVE STAGGERED JOINTS CONTINUOUS OVER TWO OR MORE SPANS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
- B. PLYWOOD ROOF SHEATHING SHALL BE NAILED WITH 10d RING SHANK NAILS @ 2 1/2" O.C. WITH SPACING NOT EXCEED 2 1/2" O.C. AT PANEL EDGES AND AT INTERMEDIATE SUPPORTS/BLOCKING AND 4". ELSE WHERE IF APPLICABLE. PROVIDE 2X4 IN. BLOCKING AT RIDGE AND HIP LINES W/ 2 -I 6d TOE NAILS FROM EACH SIDE, NAIL PLYWOOD TO BLOCKING AT 4 IN. OC.

- I. All exterior ceilings must be constructed with 5/8" plywood. See sheathing notes for nailing.
- II. DESIGN LOAD: **ROOF TRUSSES:**
- DL: 25 PSF (15PSF AT TOP CHORD \$ 10PSF AT BOTTOM CHORD.) LL: 35 PSF.

FLOOR LOAD: SDL: 25 PSF

- LL: 100 PSF.
- WIND LOAD: ASCE 7-16
- WIND VELOCITY: 175 MPH
- EXPOSURE "D" CATEGORY "II"

IN MY PROFESSIONAL JUDGEMENT AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE; 7TH EDITION (2020).

$a = 3.0 \, FT$ WIND PRESSURE SCHEDULE ZONE 4 ZONE 5 COMPONENT

PRESSURE

36.66

ROOF WIND PRESSURES ON

+16.29 PSF

+16.29 PSF

+16.29 PSF

+16.29 PSF

END ZONE LENGTH h = 3.0

PRESSURE

36.66

SUCTION

-48.88

-63.81 PSF

-36.66 PSF

-84.18 PSF

-114.72 PSF

ROOFING SYSTEM (0.6W)

ZONE 1

ZONE 1'

ZONE 2

ZONE 3

0.6h 0.6h

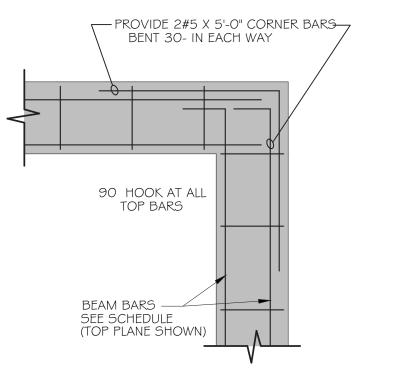
Roof Plan

ALL OPENINGS

I - WIND PRESSURES FOR A PANEL AREA IN BETWEEN TWO LIMITING ZONE AREAS SHALL BE ROUNDED OFF TO THE GREATEST VALUE OF THE WIND PRESSURE SHOWN.

SUCTION

-39.71



LISTING AGENCY APPROVAL THESE PRINTS COMPLY WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 CONSTRUCTION CODE AND ADHERE TO THE FOLLOWING CRITERIA. CONST. TYPE V-B
OCCUPANCY A-5 ACCESSUR ALLOWABLE NO. 1 RISK CATEGORY _____II WIND VELOCITY (ULT) 175
WIND VELOCITY (ASD) 136 FIRE RATING OF 0 PLAN NO. 2557-0112F ALLOW. FLOOR 100 APPROVAL DATE 11-3-2022
MANUFACTURER STEEL HOMES HIGH VELOCITY YES IIWG MUR-261

TYPICAL CORNER TIE. BEAM DETAIL SCALE: 1/2" = 1'-0"

> Digitally signed by Denis K Solano Date: 2022.10.18 10:31:04 -04'00'



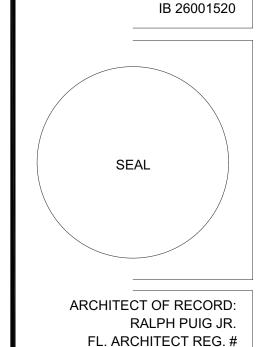
Denis K. Solano P.E. 56902 S.I. 2046 C.O.A. 00009095

Solver Structural Partnership, Inc Phone:(305) 643-8699 950 N.W. 22 ND AVE. 33125 Fax: (305) 643-8692 E-Mail: info@solverstructural.com Miami, Florida 33125 DESIGN - INSPECTION - INVESTIGATION - REPORTS

NDD-17-2816

NANDEZ Design+Development 2223 SW 13Th AVE MIAMI, FL 33145 tel:786.703.7704 info@nandezdd.com

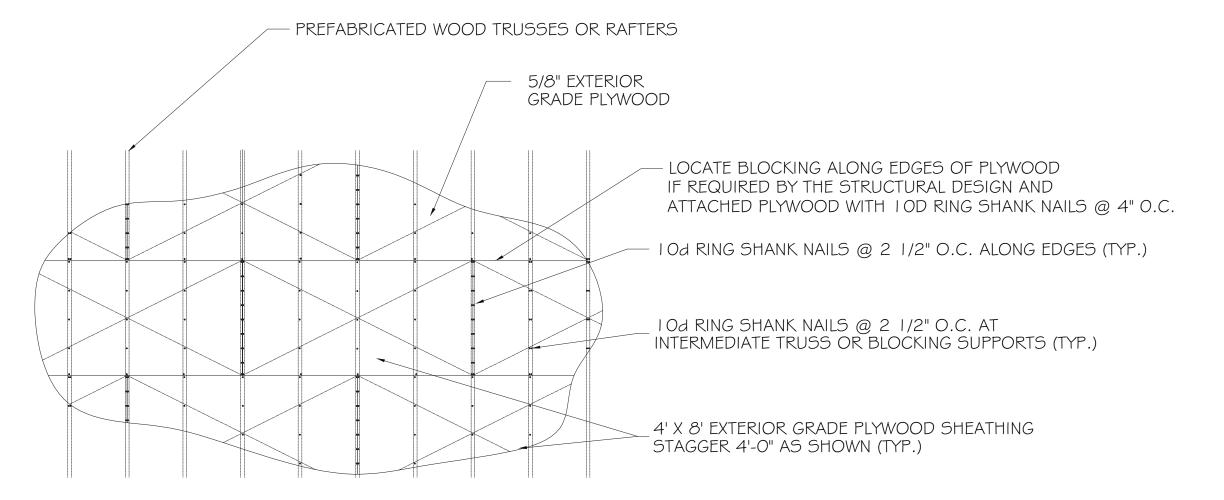
AA 26002732



REVISIONS

AR 0012528

DATE: 12-10-2018 Scale: AS SHOWN Job No.:NDD-17-2816 Drawn by:A.S.G Checked by:D.K.S



TYP.PLYWOOD LAYOUT & NAILING

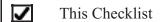
SCALE: N.T.S

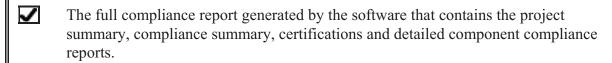
Florida Building Code, Seventh Edition (2020) - Energy Conservation

EnergyGauge Summit® Fla/Com-2020, Effective Date: Dec 31, 2020 C402.1.3: FBC Total Building Performance Compliance Option

Check List

Applications for compliance with the Florida Building Code, Energy Conservation shall include:





- The compliance report must include the full input report generated by the software as contigous part of the compliance report.
- Boxes appropriately checked in the Mandatory Section of the complaince report.

WARNING: INPUT REPORT NOT GENERATED.

To include input report in final submission, go to the Project Form, Settings Tab and check the box - "Append Input Report to Compliance Output Report"

Then rerun your calculation

PROJECT SUMMARY

Short Desc: Bathroom **Description:** Bathroom

Owner:

Address1: 8 ST 20th Ave City: Miami Address2: State: FL

Zip: 33135

Type: Retail Class: Renovation to existing buildi

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area: 312 SF Conditioned & UnConditioned Area: 312 SF No of Stories: 1 Area entered from Plans 2622 SF Permit No: 0

Max Tonnage 2.2

If different, write in:

Component	Design	Criteria	Result
Gross Energy Cost (in \$)	152.0	222.0	PASSED
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			No Entry
HVAC SYSTEM			PASSES
PLANT			No Entry
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			No Entry
Met all required compliance from Check List?			Yes/No/NA

IMPORTANT MESSAGE

Info 5009 -- -- An input report of this design building must be submitted along with this Compliance Report

CERTIFICATIONS								
I hereby certify that the plans a Florida Energy Code	and specifications cove	red by this calculation are in co	ompliance with the					
Prepared By:	RALPH PUIG	Building Official:	LISTING AGENOT APPROVAL THEE PROTECTION VITO THE FLORIDA WHO ACCUSED BILL SHEET OF DEPTY CONTINUETED CODE AND ASSESS TO THE PROTECTION OF THE PROPERTY OF THE					
	11/02/2022	Date:	CONST. TYPE V-B OCCUPANCY A-5 ACCESSURY ALLOWABLE NO. 1 OF FLOORS RISK CATEGORY II WHO VELOCITY (ULT) 175 WHO VELOCITY (ASD) 136.					
I certify that this building is in c	FIRE RATING OF 0 EXT. WALLS 2557-0112F ALLOW, FLOOR 100 APPROVAL DATE 11-3-2022 MANUFACTURES STEEL HOMES HIGH VELOCITY HURRICANE ZONE YES							
Owner Agent:		Date:	iwe					
If Required by Florida law, I hereby certify (*) that the system design is in compliance with the Fenergy Efficiency Code								
Architect:	DN: c=US, st=Florida, I=Cora Gables, o=Mandez D&D LLC cn=Ralph Puig Date: 2022.11.03 09:30:06 -0							
Electrical Designer:		Reg No:						
Lighting Designer:		Reg No:						
Mechanical Designer:		Reg No:						

(*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Plumbing Designer:

Reg No: _____

Project: Bathroom Title: Bathroom Type: Retail (WEA File: FL_MIAMI_INTL_AP.tm3) **Building End Uses** 1) Proposed 2) Baseline 9.60 16.40 **Total** \$152 \$261 ELECTRICITY(MBtu/kWh/\$) 9.60 16.40 2814 4820 \$152 \$261 **AREA LIGHTS** 3.00 2.80 882 812 \$48 \$44

Credits Applied: None
Passing Criteria = 222
Design (including any credits) = 152

0.60

183

\$10

4.90

1431

\$77

0.10

20

\$1

1.00

298

\$16

0.60

183

\$10

9.20

2700

\$146

0.10

28

\$2

3.70

1097 \$59

Passing requires Proposed Building cost to be at most 85% of

Baseline cost. This Proposed Building is at 58.1%

MISC EQUIPMT

SPACE COOL

SPACE HEAT

VENT FANS

External Lighting Compliance							
Description	Category	-	CLP (W)				
		None					

Project: Bathroom Title: Bathroom Type: Retail

(WEA File: FL_MIAMI_INTL_AP.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
Bathroom	6 T	oilet and Washroom	312	2	1	PASSES

PASSES

Project: Bathroom Title: Bathroom Type: Retail

(WEA File: FL MIAMI INTL AP.tm3)

System Report Compliance

System System Room Units (Airconditioners No. of Units & Heat pumps) 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Room AC HP with Louvered Sides	27000	16.00	8.70			PASSES
Heating System	PTHP All Capacities (Heating Mode)	26000	8.20	2.81			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	760	0.30	0.82			PASSES

PASSES

			Plan	t Com	pliance				
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category		Comp liance
								None	

Project: Bathroom Title: Bathroom Type: Retail (WEA File: FL_MIAMI_INTL_AP.tm3) Water Heater Compliance Design Min Design Max Comp Description Type Category Eff **Eff** Loss Loss liance Water Heater 1 Electric Storage water > 12 [kW] 0.97 **27.30 PASSES** heater **PASSES**

Piping System Compliance

Category Pipe Dia Is Operating Ins Cond Ins Req Ins Compliance [inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in] iance [F] .SF.F]

Mandatory Requirements (as applicable)

Requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted for FBC with permission. Not all may be applicable

Topic	Section	Componen	t Description	Yes	N/A	Exempt
	1. To b	e checked b	y Designer or Engineer			
Insulation	C303.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.			
Insulation	C303.2	Envelope	Slab edge insulation installed per manufacturer's instructions.			
Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.			
Insulation	C402.3	Envelope	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance >= 0.55 and therma emittance >= 0.75 or 3-year-aged solar reflectance index >= 64.0.			
Fenestration	C402.4.4	Envelope	U-factor of opaque doors associated with the building thermal envelope meets requirements.			
HVAC	C403.2.7	Mechanical	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).			
HVAC	C403.2.4.8	Mechanical	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.2.4.8.1 and C403.2.4.8.2).			
SYSTEM_SPECIFIC	C403.3, C403.3.1, C403.3.2	Mechanical	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.			
SYSTEM_SPECIFIC	C403.3.2	Mechanical	Economizer operation will not increase heating energy use during normal operation.			
SYSTEM_SPECIFIC	C403.3.3.3	Mechanical	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.3.3.3 for applicable device types and climate zones.			
SYSTEM_SPECIFIC	C403.3.3.4	Mechanical	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet			
SYSTEM_SPECIFIC	C403.3.3.5	Mechanical	located to avoid recirculation into the building. Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.2.4.3 for details.			
SYSTEM_SPECIFIC	C403.3.4, C403.3.4.1, C403.3.4.2, C403.3.1	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control.			
SYSTEM_SPECIFIC	C403.4.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.			
SYSTEM_SPECIFIC	C403.4.2.3.1	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat			
SYSTEM_SPECIFIC	C403.4.3.2	Mechanical	addition requirements. Multiple-cell heat rejection equipment with variable speed fan drives are controlled to operate the maximum number of fans allowed and so that all fans operate at the same fan speed required for the instantaneous cooling duty. The minimum fan speed will be the minimum allowable speed of the fan drive system in accordance with the manufacturer's recommendations.			

0.40==14 =======	0.400.4.0.:				
SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Open-circuit cooling towers having water cooled chiller systems and multiple or vairable speed condenser pumps, are designed so that tower		Ц
SYSTEM_SPECIFIC	C403.4.4	Mechanical	cells can run in parallel with larger of flow crtieria. Supply air systems serving multiple zones have VAV systems with controls configured to reduce the volume of air that is reheated, recooled or mixed in each zone. See section for details.		
SYSTEM_SPECIFIC	C403.4.4.1	Mechanical	Single-duct VAV systems use terminal devices configured to reduce the supply of primary supply		
SYSTEM_SPECIFIC	C403.4.4.2	Mechanical	air before reheating or recooling takes place. Systems that have 1 warm air duct and 1 cool air duct use terminal devices configured to reduce the flow from one duct to a minimum before mixing of		
SYSTEM_SPECIFIC	C403.4.4.3	Mechanical	air from the other duct takes place. Individual dual-duct or mixing heating and cooling systems with a single fan and with total capacities		
SYSTEM_SPECIFIC	C404.2	Mechanical	> 90,000 Btu/h not equipped with air economizers. Service water heating equipment meets efficiency requirements.		
SYSTEM_SPECIFIC	Table_C403.3.2(8)a	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=40.2 gpm/hp.		
SYSTEM_SPECIFIC	Table_C403.3.2(8)b	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=20.0 gpm/hp.		
SYSTEM_SPECIFIC	Table_C403.3.2(8)c	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=16.1 gpm/hp.		
SYSTEM_SPECIFIC	Table_C403.3.2(8)d	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=7.0 gpm/hp		
SYSTEM_SPECIFIC	Table_C403.3.2(8)e	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=134 kBtu/h-hp w/ Ammonia test		
SYSTEM_SPECIFIC	Table_C403.3.2(8)f	Mechanical	fluid. Heat Rejection Equipment: Minimum Efficiency Requirement >=110 kBtu/h-hp w/ Ammonia test		
SYSTEM_SPECIFIC	Table_C403.3.2(8)g	Mechanical	fluid. Heat Rejection Equipment: Minimum Efficiency Requirement >=157 kBtu/h-hp w/ R-507A test fluid.		
SYSTEM_SPECIFIC	Table_C403.3.2(8)h	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=135 kBtu/h-hp w/ R-507A test fluid.		
SYSTEM_SPECIFIC	Table_C403.3.2(8)i	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=176 kBtu/h-hp.		
SYSTEM_SPECIFIC	C403.2.12.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.		
SYSTEM_SPECIFIC	C403.2.12.2	Mechanical	HVAC fan motors not oversized beyond allowable limits.		
SYSTEM_SPECIFIC	C403.2.12.3	Mechanical	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of		
SYSTEM_SPECIFIC	C403.2.12.4	Mechanical	the fan. Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust		
SYSTEM_SPECIFIC	C403.2.12.5	Mechanical	motor speed. Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.		
	2. T	o be check	ed by Plan Reviewer		
Plan Review	C103.2	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.		

Dlan Davis:::	C102.2	MachaniI	Diene enecifications and/ar relaulations would	$\overline{}$		
Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	Ц	Ц	П
Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.			
Plan Review	C103.2	Interior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.			
Plan Review	C103.2	Exterior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and			
Insulation	C402.2.5	Envelope	ballasts, transformers and control devices. Slab edge insulation depth/length. Slab insulation extending away from building is covered by			
Insulation	C402.2.4	Envelope	pavement or >= 10 inches of soil. Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.			
Insulation	C402.2.6	Project	Radiant heating systems panels insulated to >=R-3.5 on face opposite space being heated.			
HVAC	C402.2.6	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			
Insulation	C402.2.6	Envelope	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.			
Air Leakage	C402.5.7	Envelope	Vestibules are installed on all building entrances. Doors have self-closing devices.			
HVAC	C403.2.13	Mechanical	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.			
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.			
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.			
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.			
SYSTEM_SPECIFIC	C403.2.4.4	Mechanical	Zone isolation devices and controls installed where applicable.			
SYSTEM_SPECIFIC	C403.2.4.4	Mechanical	Zone isolation devices and controls installed where applicable.			
SYSTEM_SPECIFIC	C403.2.4.7	Mechanical	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.			
SYSTEM_SPECIFIC	C403.2.5	Mechanical	Hot water boilers supplying heat via one- or two-pipe systems include outdoor setback control.			
HVAC	C403.2.6	Mechanical	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.			

HVAC	C403.2.6.1	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side			
			economizer, auto modulating outside air damper			
0)/07514 00501510	0.400.0.40.5.4		control, or design airflow >3,000 cfm.	_		_
SYSTEM_SPECIFIC	C403.2.12.5.1	Mechanical	Hydronic and multizone HVAC system controls are	Ш	Ш	Ш
			VAV fans driven by mechanical or electrical variable speed drive per Table C403.2.12.5.			
SYSTEM SPECIFIC	C403.2.12.5.3	Mechanical	Reset static pressure setpoint for DDC controlled	П	П	
3131EW_31 EOII 10	0403.2.12.3.3	Medianical	VAV boxes reporting to central controller based on	ш	ш	ш
			the zones requiring the most pressure.			
SYSTEM_SPECIFIC	C403.4.2	Mechanical	The heating of fluids in hydronic systems that	П	П	
_			have been previously mechanically cooled, and	ш	_	
			the cooling of fluids that have been previously			
			mechanically heated are limited in accordance			
			with Sections C403.4.2.1-C403.4.2.3. Single boiler			
			systems >500,000 Btu/h have multistaged or			
CVCTEM CDECIFIC	0400 4 0 0 0	Manhaniani	modulating burner.			_
SYSTEM_SPECIFIC	C403.4.2.3.2	Mechanical	Closed-circuit cooling tower within heat pump loop	Ш	Ш	Ш
			have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit			
			tower within heat pump loop have automatic valve			
			to bypass all heat pump water flow around the			
			tower. Open- or closed-circuit cooling towers used			
			in conjunction with a separate heat exchanger			
			have heat loss by shutting down the circulation			
			pump on the cooling tower loop. Open- or closed			
			circuit cooling towers have a separate heat			
			exchanger to isolate the cooling tower from the			
			heat pump loop, and heat loss is controlled by			
			shutting down the circulation pump on the cooling tower loop.			
SYSTEM SPECIFIC	C403.4.2.4	Mechanical				
SYSTEM_SPECIFIC	C403.4.2.4	Mechanical	Hydronic systems greater than 500,000 Btu/h			
SYSTEM_SPECIFIC	C403.4.2.4	Mechanical				
SYSTEM_SPECIFIC SYSTEM_SPECIFIC	C403.4.2.4 C403.4.2.5	Mechanical Mechanical	Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section			
_			Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for full details. System turndown requirement met through multiple single-input boilers, one or more			
_			Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for full details. System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of			
_			Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for full details. System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers.			
_			Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for full details. System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has			
_			Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for full details. System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0			
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SYSTEM_SPECIFIC SYSTEM_SPECIFIC SYSTEM_SPECIFIC	C403.4.2.6 C403.4.3.1 C403.4.3.3	Mechanical Mechanical Mechanical	Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for full details. System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0 MBtu/h and 10 MBtu/h has 4:1 turndown ratio, boiler input > 10.0 MBtu/h has 5:1 turndown ratio. Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down. Fan systems with total system motor capacity >=5 hp associated with heat rejection equipment configured to automatically modulate the fan speed to control the leaving fluid temperature or condensing temp/pressure of heat rejection device. Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets minimum efficiency requirement: >=40.2 gpm/hp. Multiple zone HVAC systems have supply air temperature reset controls. Multiple zone VAV systems with DDC of individual			
SYSTEM_SPECIFIC SYSTEM_SPECIFIC SYSTEM_SPECIFIC SYSTEM_SPECIFIC SYSTEM_SPECIFIC	C403.4.2.5 C403.4.2.6 C403.4.3.1 C403.4.3.3 C403.4.4.5	Mechanical Mechanical Mechanical Mechanical	Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for full details. System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0 MBtu/h and 10 MBtu/h has 4:1 turndown ratio, boiler input > 10.0 MBtu/h has 5:1 turndown ratio. Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down. Fan systems with total system motor capacity >=5 hp associated with heat rejection equipment configured to automatically modulate the fan speed to control the leaving fluid temperature or condensing temp/pressure of heat rejection device. Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets minimum efficiency requirement: >=40.2 gpm/hp. Multiple zone HVAC systems have supply air temperature reset controls.			

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SYSTEM_SPECIFIC SYSTEM_SPECIFIC	C404.2.1	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h. Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual		
SYSTEM_SPECIFIC	C404.4	Mechanical	dwelling units and equipment <= 100 kBtu/h. All piping insulated in accordance with section details and Table C403.2.10.		
SYSTEM_SPECIFIC	C404.5, C404.5.1, C404.5.2	Mechanical	Heated water supply piping conforms to pipe length and volume requirements. Refer to section		
SYSTEM_SPECIFIC	C404.6.3	Mechanical	details. Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.		
SYSTEM_SPECIFIC	C404.7	Mechanical	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.		
Wattage	C405.4.1	Exterior Lighting	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.		
Plan Review	C405.5.2	Project	Group R-2 dwelling units have separate electrical meters.		
Plan Review	C406	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.		
SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.		
	3	B. To be che	cked by Inspector		
Insulation	C303.1	Envelope	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation		
Insulation	C303.1	Envelope	is installed only where the roof slope is <=3 in 12. Building envelope insulation is labeled with R-value or insulation certificate providing R-value		
Insulation	C402.2.2	Envelope	and other relevant data. Insulation installed on a suspended ceiling having ceiling tiles is not being specified for roor/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.		
Insulation	C402.2.2	Envelope	Skylight curbs are insulated to the level of roofs with insulation above deck or R-5.		
Fenestration	C303.1.3	Envelope	Fenestration products rated in accordance with NFRC.		
Insulation	C303.2, C402.2.5	Envelope	Floor insulation installed per manufacturer's instructions. Cavity or structural slab insulation installed in permanent contact with underside of decking or structural slabs.		

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Insulation	C303.2.1	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and		
Insulation	C303.2.1	Envelope	equipment maintenance activities. Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during		
Insulation	C402.1.3	Envelope	Foundation Inspection. Non-swinging opaque doors have R-4.75 insulation.		
Insulation	C104	Envelope	Installed above-grade wall insulation type and R-value consistent with insulation specifications		
Insulation	C104	Envelope	reported in plans and COMcheck reports. Installed slab-on-grade insulation type and R-value consistent with insulation specifications		
Insulation	C104	Envelope	reported in plans and COMcheck reports. Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during		
Air Leakage	C402.5	Envelope	Framing Inspection. Building envelope contains a continuous air barrier that has been tested and deemed to limit		
Air Leakage	C402.5.1	Envelope	air leakage <= 0.40 cfm/ft2. The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.		
Air Leakage	C402.5.1.1	Envelope	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.		
Air Leakage	C402.5.1.2.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 dfm/ft2. Air barrier penetrations are sealed in an approved manner.		
Air Leakage	C402.5.1.2.2	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and average assembly air leakage <= 0.04 cfm/ft2. Air barrier penetrations are sealed in an approved manner.		
Air Leakage	C402.5.2, C402.5.4	Envelope	Factory-built fenestration and doors are labeled as meeting air leakage requirements.		
Air Leakage	C402.5.5, C403.2.4.3	Envelope	Stair and elevator shaft vents have motorized dampers that automatically close. Reference section C403.2.4.3 for operational details.		
Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.		
Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.		
Air Leakage	C402.5.8	Envelope	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal		
HVAC	C403.2.1	Mechanical	between interior finish and luminaire housing. HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an		
SYSTEM_SPECIFIC	C403.2.10	Mechanical	approved equivalent computational procedure HVAC piping insulation insulated in accordance with Table C403.2.10. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.		
HVAC	C403.2.3	Mechanical	HVAC equipment efficiency verified.		
SYSTEM_SPECIFIC	C403.2.3	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Table C403.2.3(3).		

SYSTEM_SPECIFIC	C403.2.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets		
SYSTEM_SPECIFIC	C403.2.4.1	Mechanical	minimum efficiency requirement: >=38.2 gpm/hp. Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed		
SYSTEM_SPECIFIC	C403.2.4.1.1	Mechanical	humidification/dehumidification system. Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.		
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 °F deadband.		
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 °F deadband.		
HVAC	C403.2.4.1.3	Mechanical	Temperature controls have setpoint overlap restrictions.		
HVAC	C403.2.4.2.1, C403.2.4.2.2	Mechanical	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant		
SYSTEM_SPECIFIC	C403.2.4.2.3	Mechanical	override, 10-hour backup Systems include optimum start controls.		
HVAC	C403.2.4.5, C403.2.4.6	Mechanical	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.		
HVAC	C403.2.6.2	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.		
Air Leakage	C403.2.4.3	Mechanical	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section		
HVAC	C403.2.9.1, C403.2.9.2	Mechanical	language for operational details. HVAC ducts and plenums insulated in accordance with C403.2.9.1 and constructed in accordance with C403.2.9.2, verification may need to occur during Foundation Inspection.		
SYSTEM_SPECIFIC	C403.2.12.5.2	Mechanical	VAV fans have static pressure sensors located so controller setpoint <=1.2 w.c		
SYSTEM_SPECIFIC	C403.4.2.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15 °F, allow operation in one mode for at least 4 hrs before changeover, and have rest controls to limit heating and cooling supply temperature to <=30 °F.		
SYSTEM_SPECIFIC	C403.4.2.3.3	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with		
SYSTEM_SPECIFIC	C403.4.4.7	Mechanical	pumping system >10 hp is off. Parallel-flow fan-powered VAV air terminals have automatic controls configured to 1) turn off the terminal fan except when space heating is required or where required for ventilation, 2) turn on the terminal fan as the first stage of heating before the heating coil is activated, and 3) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or, reverse the		
SYSTEM_SPECIFIC	C403.2.12.5.3	Mechanical	terminal damper logic and provide heating from the central air handler by primary air. Systems with DDC of individual zones reporting to the central control panel configured to reset the static pressure setpoint based on zone requiring the most pressure. The DDC is capable of monitoring zone damper positions or have an alternative method of indicating the need for static pressure. See section for details.		

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SYSTEM_SPECIFIC	C403.2.12.5.2	Mechanical	Static pressure sensors used to control VAV fans located such that the controller setpoint is <= 1.2 inches w.c Where this results in one or more sensors being located downstream of major duct splits, not less than one sensor located on each major branch.	Ш	Ш	П
SYSTEM_SPECIFIC	C403.4.5	Mechanical	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water.			
SYSTEM_SPECIFIC	C403.4.6	Mechanical	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%			
SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on supply and discharge piping of non-circulating systems.			
SYSTEM_SPECIFIC	C404.6.1	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.			
SYSTEM_SPECIFIC	C404.6.1, C404.6.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.			
SYSTEM_SPECIFIC	C404.9.1	Mechanical	Pool heaters are equipped with on/off switch and no continuously burning pilot light.			
SYSTEM_SPECIFIC	C404.9.2	Mechanical	Time switches are installed on all pool heaters and pumps.			
SYSTEM_SPECIFIC	C404.9.3	Mechanical	Vapor retardant pool covers are provided for heated pools and permanently installed spas.			
Controls	C405.2.1, C405.2.1.1	Interior Lighting	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	Ц	Ц	П
Controls	C405.2.1.2	Interior Lighting	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.			
Controls	C405.2.1.3	Interior Lighting	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.			
Controls	C405.2.2, C405.2.2.1, C405.2.2.2	Interior Lighting	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.			

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Controls	C405.2.2.2	Interior Lighting	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably		
Controls	C405.2.3, C405.2.3.1, C405.2.3.2	Interior Lighting	uniform illumination pattern >= 50 percent. Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control		
Controls	C405.2.4	Interior Lighting	function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans.		
Wattage	C405.2.4	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from		
Controls	C405.2.6	Exterior Lighting	controls that comply with Sections C405.2.6.1 through C405.2.6.4. Decorative lighting systems shall comply with Sections C405.2.6.1,		
Wattage	C405.3.1	Interior Lighting	C405.2.6.2, and C405.2.6.4. Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are		
Mandatory Additional	C406.4	Project	less than or equal to allowed watts. Enhanced digital lighting controls efficiency package: Interior lighting has following enhanced lighting controls in accordance with Section C405.2.2:		
Mandatory Additional	C406.6	Project	Luminaires capable of continuous dimming and being addressed individually, <= 8 luminaires controlled in combination in a daylight zone, digital control system for fixtures, "Sequence of Operations" documentation, and functional testing per Section C408. Dedicate outdoor air system efficiency package: Buildings with hydronic and/or multiple-zone HVAC systems are equipped with an independent ventilation system designed to provide >= 100-percent outdoor air to each individual		
Mandatory Additional	C406.7, C406.7.1	Project	occupied space, as specified by the IMC. The ventilation system is capable of total energy recovery and includes HVAC system controls that manage temperature resets >= 25 percent of delta design supply-air / room-air temp. Reference section C406.6 for qualifying systems/equipment. Enhanced Service Water Heat System efficiency package. One of the following SWH system enhancements must satisfy 60 percent of buildings annual hot water requirements, or 100 percent if the building requirements otherwise complies with heat recovery per Section C403.9.5: Waste heat recovery (from SWH, process equipment, OR on-site renewable water-heating.		
HVAC	C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing.		
Testing	C408.2.3.2	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of		
HVAC	C403.2.14, C403.2.14.1, C403.2.14.2	Mechanical	controls. Commercial refrigerators, freezers, refrigerator-freezers and refrigeration equipment, defined in U.S. 10 CFR part 431.62, shall have an energy use in kWh/day not greater than the values of Table C403.2.14.1(1) when tested and rated in accordance with AHRI Standard 1200. Walk-in cooler and walk-in freezer refrigeration systems, except for walk-in process cooling refrigeration systems as defined in U.S. 10 CFR 431.302, shall meet the requirements of Tables C403.2.14.2(1), C403.2.14.2(2) and C403.2.14.2(3).		

Post Construction	C408.1.1, C408.2.5.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated			
Post Construction	C408.1.1, C408.2.5.3	Mechanical	representative. Furnished O&M manuals for HVAC systems within 90 days of system acceptance.			
Fenestration	C402.4.2.2	Envelope	Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude direct sunlight.			
Post Construction	C408.1.1	Project	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	Ш	Ц	Ц
Post Construction	C408.2.1	Mechanical	Commissioning plan developed by registered design professional or approved agency.			
Post Construction	C408.2.3.1	Mechanical	HVAC equipment has been tested to ensure proper operation.			
Post Construction	C408.2.3.3	Mechanical	Economizers have been tested to ensure proper operation.			
Post Construction	C408.2.4	Mechanical	Preliminary commissioning report completed and certified by registered design professional or approved agency.			
Post Construction	C408.2.5.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.			
Post Construction	C408.2.5.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems.			
Post Construction	C408.2.5.4	Mechanical	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.			
Post Construction	C408.3	Interior Lighting	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.			
Post Construction	C405.6	Project	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.			
Post Construction	C405.7	Project	requirements of Tables C405.7(1) through c405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).			
Post Construction	C405.8.2, C405.8.2.1	Project	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.			
Post Construction	C405.5.3	Project	Total voltage drop across the combination of feeders and branch circuits <= 5%.			

INFOI DAIA REFORI		EnergyGauge Summit® v7.00 INPUT DATA REPORT	
		EnergyGauge Summit® v7.00	
EnergyGauge Summit® v7.00	EnergyGauge Summit® v7.00		
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EnergyGauge Summit® v7.00	EnergyGauge Summit® v7.00		

Project Information

Project Name: Bathroom

Address: 8 ST 20th Ave

Project Title: Bathroom

Orientation: 0 Deg Clockwise. Walls & Windows will

be rotated accordingly Building Type: Retail

Building Classification: Renovation to existing building

No.of Stories: 1

GrossArea: 312

SF

Owner:

Zip: 33135 State: FL

	Total Area [sf]	312.0
	Multiplier	1
	Area [sf]	312.0
Zones	Type	CONDITIONED
	Description	Zone 1
	No Acronym	1 Bathroom

		•	paces					
No Acronym	Description	Туре	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]

In Zone:	ne: Bathroom	om Zo0Sp1	Toilet and	Toilet and Washroom		8.00		39.00 8.0	8.00 1	31	312.0	2496.0	0.	
						Lighting	ng							
	N_0	Type	Category	ory	Lur	No. of Luminaires		Watts per P Luminaire	Power (W)	Control Type	lype	No.of Ctrl pts	of pts	
In Zone: In 9	ne: Bathroom In Space: Bathroom 1 Cor	om throom Compact Fluorescent		General Lighting		9		48	288 M	Manual On/Off	#O/L	2		
		Walls	Walls (Walls will be rotated clockwise by building rotation value)	be rota	ted c	lockw	vise by	building	rotatior	valu	(e)			
Z	Description	Type		Width H (Effec) Multi [ft] [ft] plier	Effec)	Multi plier	Area [sf]	Orientation	Conductance [Btu/hr. sf. F]		Heat Capacity [Btu/sf.F]	Dens. F	R-Value [h.sf.F/Btu]	
In 5	In Zone: B	Bathroom Metal siding	Metal sidino/2×4@24"+R1	39.00	8.00		312.0	North	0.0920		1.072	19.38	10.9	
7	South Wall	1Batt/ Metal Siding/	1Batt/5/8"Gyp Metal siding/2x4@24"+R1	39.00	8.00	-	312.0	South	0.0920		1.072	19.38	10.9	
3	East Wall	1Batt/ Metal siding	1Batt/5/8"Gyp Metal siding/2x4@24"+R1	8.00	8.00	-	64.0	East	0.0920		1.072	19.38	10.9	
4	West Wall	1Batt/: Metal Siding, 1Batt/:	1Batt/5/8"Gyp Metal siding/2x4@24"+R1 1Batt/5/8"Gyp	8.00	8.00	1	64.0	West	0.0920		1.072	19.38	10.9	
		Windows	Windows (Windows will be rotated clockwise by building rotation value)	will be	rotai	ted c	lockwis	se by buil	ding ro	tation	value)			
	N	Description	Orientation	Shaded	U Btu/hr sf F]	r sf F]	SHGC Vis.Tra		W H (H (Effec) [ft]	Multi plier	Total Area [sf]		

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	Doors	Shaded? Width H (Effec) Multi Area Cond. Dens. Heat Cap. R-Value [ft] [ft] plier [sf] [Btu/hr. sf. F] [lb/cf] [Btu/sf. F] [h.sf.F/Btu]	3.00 6.66 2 20.0 0.1919 43.67 0.53 5.21	Roofs	H (Effec) Multi Area Tilt Cond. Heat Cap Dens. R-Value [ft] plier [sf] [deg] [Btu/hr. Sf. F] [Btu/sf. F] [lb/cf] [h.sf.F/Btu]	10 8.00 1 312.0 0.00 0.0492 1.34 9.49 20.3	Skylights	U SHGC Vis.Trans W H (Effec) Multiplier Area Total Area [Btu/hr sf F] [ft] [ft] [Sf] [Sf]	
	Doors	H (Effec) Multi Area [ft] plier [sf]	6.66 2	Roofs	Multi Area Tilt plier [sf] [deg]	1 312.0 0.00	Skylights	SHGC Vis.Trans W [ft]	
		Type Shaded?	Aluminum door, No 1.25 in. polystyrene		Type Width [ft]	Mtl Bldg Roof/R-19 39.00 Batt		Туре	
In Zone: In Wall:		No Description	In Zone: Bathroom In Wall: South Wall 1 Door		No Description	In Zone: Bathroom 1 Roof		No Description	In Zone: In Roof:

			Floors							
No Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf] [B	Cond. tu/hr. sf. F	H (Effec) Multi Area Cond. Heat Cap. Dens. [ft] plier [sf] [Btu/hr. sf. F] [Btu/sf. F] [lb/cf]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Bathroom I Floor	Metal siding/2x4@24"+R1 1Batt/5/8"Gyp	39.00	8.00	1	312.0	312.0 0.0920	1.07	19.38	10.87	

	No. Of Units 1				
	& Heat	IPLV			
	Room Units (Airconditioners & Heat pumps)	Efficiency	16.00	8.20	0.30
Systems	Room Unit pumps)	Capacity	27000.00	26000.00	760.00
	System	Category	Cooling System	Heating System	Air Handling System -Supply
	System	Component Category	1	2	3

Category Size Inst.No
gory
gory

	Wat	Water Heaters			
W-Heater Description	CapacityCap.Unit	I/P Rt.	Efficiency	Loss	
1 Electric Storage water heater	1 [Gal]	10000 [kW]	0.9700 [Ef]	%	

		Ext-Lighting	hting				
Description	Category	No. of Luminaires	No. of Watts per Luminaires Luminaire	Watts per Area/Len/No. of units Control Type [sf/ft/No]	Control Type	Wattage [W]	<u> </u>
		Piping	20				
No Type		Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe y Diameter F] [in]	Insulation Is Runout? Thickness [in]	Is Runout?	

			Fenestration Used	ion Used		
Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT	

			Mat	Materials Used	pe				
Mat No	Mat No Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	t
264	264 Matl264	ALUMINUM, 1/16 IN	No	0.0002	0.0050	26.0000	480.00	0.1000	þ
214	Mat1214	POLYSTYRENE, EXP.,	No	5.2100	0.1042	0.0200	1.80	0.2900	
187	Matl187	1-1/4IN, GYP OR PLAS	No	0.4533	0.0417	0.0920	50.00	0.2000	
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	
4	Matl4	Steel siding	No	0.0002	0.0050	26.0000	480.00	0.1000	

0.2000	0.3500	
7.11	70.00	
0.0280	0.0930	
0.2917	0.0313	
10.4179	0.3366	
No	No	
2x4@24" oc + R11 Batt	BUILT-UP ROOFING,	3/8IN
Matl271	Matl94	
271	94	

					Const	Constructs Used	sed				
Z	No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
10	1002	Aluminum door, 1.25 in. polystyrene	1.25 in. pol	ystyrene	No	No	0.19	0.53	43.67	5.2	
		Layer	Material No.	Material Material No.		Thic	Thickness F	Framing Factor			
		1	264	ALUMINUM, 1/16 IN	NI 9:	0.0	0.0050	0.000			
		2	214	POLYSTYRENE, EXP., 1-1/4IN,	EXP., 1-1/4IN,	0.1	0.1042	0.000			
		3	264	ALUMINUM, 1/16 IN	NI 9	0.0	0.0050	0.000			
Z	No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [Ib/cf]	RValue [h.sf.F/Btu]	
10	910	1019 Metal siding/2x4@24"+R11Batt/5/8"Gyp	(@24"+R11I	3att/5/8"Gyp	No	No	60.0	1.07	19.38	10.9	
		Layer	Material No.	Material Material No.		Thic	Thickness F	Framing Factor			
		1	4	Steel siding		0.0	0.0050	0.000			
		2	271	2x4@24" oc + R11 Batt	11 Batt	0.2	0.2917	0.000			
		3	187	GYP OR PLAS BOARD,1/2IN	OARD,1/2IN	0.0	0.0417	0.000			

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No Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity Density RValue [Btu/sf.F] [lb/cf] [h.sf.F/Btı	Density [lb/cf]	Density RValue [lb/cf] [h.sf.F/Btu]	
Bldg Ro	1047 Mtl Bldg Roof/R-19 Batt		No	No	0.05	1.34	9.49	20.3	
Laye	Layer Material Material No.	Material		Thickn [ft]	ess	Framing Factor			
П	94	BUILT-UP ROOFING, 3/8IN	VG, 3/8IN	0.0313	13	0.000			
2	23	6 in. Insulation		0.5000	00	0.000			