GOLF GALAXY

GATLIN PLAZA

PORT ST LUCIE, FL
STORE #3131

TENANT

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MEP ENGINEER

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FAX: (216)292-5874
EMAIL: mail@mchenryassociates.com

GRAPHIC SYMBOL LEGEND

NORTH ARROW

WALL SECTION — 1 / A101

ELEVATION — 1 / A12.1; 2 / A12.1

DETAIL TAG — 1 / A101

CEILING TAG — CEILING FINISH / CL HT

WALL FINISH TAG — P-107

ELEVATION TAG — FINISH FLOOR / EL. 0'-0"

DOOR TAG — XXX

WINDOW TAG — X

ROOM TAG — ROOM / 101

REVISION — X

ABBREVIATIONS

A.F.F.	Above Finish Floor	EXP.	Expansion	N.I.C.	Not In Contract
A.C.T.	Acoustical Ceiling Tile	E.J.	Expansion Joint	N.T.S.	Not To Scale
ADJ.	Adjacent	E.I.F.S.	Exterior Insulation & Finish System	O.C.	On Center
A.C.	Air Conditioning			OPP.	Opposite
ALT.	Alternate			O.H.	Overhead
ALUM.	Aluminum	F.R.P.	Fiberglass Reinforced Polyester	PR.	Pair
APPD.	Approved			PLAS. LAM.	Plastic Laminate
APPROX.	Approximate			PLYWD.	Plywood
ARCH.	Architectural	F.R.T.	Fire Retardant Treated	P.V.C.	Polyvinyl Chloride
ASPH.	Asphalt			PRE-FAB.	Prefabricated
AUTO.	Automatic	F.F.	Finish Floor	P.T.	Pressure Treated
AVG.	Average	F.E.	Fire Extinguisher	REINF.	Reinforcement
BLK.	Block	F.O.	Finished Opening	RM.	Room
BD.	Board	FT.	Foot	S.A.T.	Suspended Acoustical Tile
B.U.R.	Built-Up Roof	FTG.	Footing		
C.B.	Catch Basin	GA.	Gauge	SCHED.	Schedule
C.J.	Control joint	G.C.	Gen. Contractor	SIM.	Similar
C.O.	Cleanout	GYP.	Gypsum	SQ.	Square
CLO.	Closet	H.V.A.C.	Heating, Ventilation & Air Conditioning	S.F.	Square Foot
C.W.	Cold Water			S.S.	Stainless Steel
COL.	Column			STL.	Steel
CONC.	Concrete	H.M.	Hollow Metal	STOR.	Storage
C.M.U.	Concrete Masonry Unit	HORIZ.	Horizontal	STR.	Structural
		H.W.	Hot Water	TEL.	Telephone
CONT.	Continuous	HR.	Hour	T&G	Tongue & Groove
CORR.	Corridor	IN.	Inch	T.O.	Top Of
CRS.	Courses	INSUL.	Insulation or Insulated	T.G.	Top Of Grade
DIA.	Diameter			T.O.S.	Top Of Steel
DSG	Dick's Sporting Goods	INT.	Interior	TYP.	Typical
DR.	Door	JAN.	Janitor's Closet	UNFIN.	Unfinished
D.S.	Downspout	J.T.	Joint	U.N.O.	Unless Noted Otherwise
DWG.	Drawing	LAV.	Lavatory		
D.F.	Drinking Fountain	M.D.F.	Medium Density Fiberboard	V.B.	Vapor Barrier
EA.	Each			VERT.	Vertical
E.W.	Each Way	M.H.	Manhole	VEST.	Vestibule
ELEC.	Electrical	MFGR.	Manufacturer	V.C.T.	Vinyl Composition Tile
EL.	Elevation	M.O.	Masonry Opening		
ELEV.	Elevation	MAX.	Maximum	W.H.	Water Heater
EQUIP.	Equipment	MECH.	Mechanical	W.W.F.	Welded Wire Fabric
EQ.	Equal	MIN.	Minimum	W/	With
E.F.	Exhaust Fan	MISC.	Miscellaneous	W/O	Without
EXIST.	Existing	MTL.	Metal	WD.	Wood

SCOPE OF PROJECT

PROJECT CONSISTS OF A GROUND UP NEW BUILD OF A 15,784 SF BUILDING FOR A NEW GOLF GALAXY RETAIL STORE.

DRAWING INDEX

REVISIONS

SHEET NO.	SHEET NAME
ARCHITECTURAL	
T1.0	COVER SHEET
LS1.0	LIFE SAFETY FLOOR PLAN
ADA.0	2010 ADA STANDARDS
A1.0	ARCHITECTURAL FLOOR PLAN
A1.2	PARTITION TYPES
A2.0	ARCHITECTURAL FINISH FLOOR PLAN
A2.2	ARCHITECTURAL BLOCKING PLAN
A3.0	ARCHITECTURAL CEILING PLAN
A3.1	ARCHITECTURAL CEILING COORDINATION PLAN
A4.0	ARCHITECTURAL ROOF PLAN
A4.1	ROOF DETAILS
A5.0	SCHEDULES & NOTES
A5.1	DOOR & WINDOW DETAILS
A6.0	BUILDING ELEVATIONS
A7.0	ENLARGED DISPLAY DETAILS
A7.1	RECEIVING PLAN, ELEVATIONS & DETAILS
A9.0	STOREFRONT SECTIONS
A9.1	STOREFRONT SECTIONS
A9.2	SIGN PLASTER SECTIONS
A9.3	WALL SECTIONS
A9.4	WALL SECTIONS
A10.0	STOREFRONT / VESTIBULE DETAILS
A11.0	ARCHITECTURAL FIXTURE PLAN
A12.0	FITNESS & GOLF SERVICES ENLARGED PLANS & ELEVATIONS
A12.1	BAGS & PUTTING GREEN ENLARGED PLANS & ELEVATIONS
A12.2	CHECKOUT ENLARGED PLANS & ELEVATIONS
A12.3	FOOTWEAR ENLARGED PLANS & ELEVATIONS
A12.4	HITTING ROOMS ENLARGED PLANS & ELEVATIONS
A12.5a	OFFICE SECTIONS & DETAILS
A12.7	RESTROOMS ENLARGED PLAN & ELEVATIONS
STRUCTURAL	
S1.0	GENERAL NOTES
S1.1	GENERAL NOTES
S1.2	GENERAL NOTES
S2.0	FOUNDATION PLAN
S3.0	ROOF FRAMING PLAN
S3.1	STOREFRONT ELEVATIONS
S4.0	FOUNDATION TYPICAL DETAILS
S4.1	SECTION & DETAILS
S5.0	SECTION & DETAILS
S5.1	SECTION & DETAILS
S6.0	SECTION & DETAILS
S6.1	SECTION & DETAILS
S6.2	SECTION & DETAILS
H.V.A.C.	
H1.0	HVAC FLOOR PLAN
H2.0	HVAC SCHEDULES
H2.1	HVAC DETAILS
H2.2	HVAC DETAILS & NOTES
H3.0	HVAC ROOF PLAN
PLUMBING	
P1.0	PLUMBING FLOOR PLAN
P2.0	ENLARGED PLAN, DETAILS & NOTES
P2.1	SCHEDULES & DIAGRAMS
ELECTRICAL	
E1.0	LIGHTING PLAN
E1.0A	DIMENSIONED LIGHTING PLAN
E1.1	TRACK LIGHTING PLAN
E2.0	ELECTRICAL POWER PLAN
E2.1	ELECTRICAL POWER ROOF PLAN
E3.0	ELECTRICAL DETAILS
E3.0A	ELECTRICAL DETAILS
E4.0	MISC. SCHEDULES
E5.0	PANEL SCHEDULES
E6.0	ELECTRICAL DETAILS
E7.0	TELEPHONE-DATA SYSTEM FLOOR PLAN
E8.0	SECURITY PLAN
E9.0	SECURITY SYSTEM DETAILS
E9.1	SECURITY SYSTEM DETAILS
E10.0	SPECIAL SYSTEMS PLAN
E11.0	SPECIAL SYSTEMS DIAGRAMS & NOTES
ENERGY MANAGEMENT	
EM1.0	EMS NOTES
EM2.0	EMS NOTES

NATIONAL VENDORS RESPONSIBILITY CHART

SOP CONTACTS:
DSG MANAGER OF ARCHITECTURAL SERVICES: MATTHEW.JAROCK - MATTHEW.JAROCK@DCSG.COM (724) 273-5645
DSG MANAGER OF PURCHASING: GREGG GRAVES - GREGG.GRAVES@DCSG.COM (724) 273-3942
DSG PROCUREMENT SPECIALIST: SUSAN CLYDESDALE - SUSAN.CLYDESDALE@DCSG.COM (724) 273-4836

VENDOR #2: JARROD MILLER (BTS-DSGSUPPORT@JCI.COM) - BA

VENDOR #19: LUCIANO CRISANTOS LCRISANTOS@JCI.COM) - CCTV

VENDOR #15: REFER TO STORE SPECIFIC VENDOR MATRIX FOR CONTACT NAME AND NUMBER.

Vendor Matrix

3131 - Port St. Lucie

Fiscal Year 21
Issued 3/29/2021

Vendor	*Scope of Work*	*Lead Time in Wks:*	*Purchased By*	*Installed By*	*Vendor Primary Contact:*
New - RBTS - Single Level Prototype					
01 - Advanced Fixtures Inc.	Casework/Millwork, Statwell/Plas. Lam. Panels/MDF Panels, Wall Louver	10	*	Vendor	DSG - Heather Ingram, 972-784-8800 x 225, dickspjm@advancedfixtures.com
02 - JCI / BA	Security	4	*	Vendor	DSG Support Team / Robert Hansen, (630) 706-5020, bts-dsgsupport@jci.com / robert.hansen@jci.com
03 - Real Floors Commercial, Inc.	All Flooring Materials / Ceramic Tile / Wall Carpet	6	*	Vendor	Michael Jarvis, 770-590-7334, mjarvis@rfcommercial.com
04 - Cook & Boardman Group	Hollow Metal Doors (Frames & Hardware, Cores, Keying), Fitting Room Doors	6	*	G.C.	Lisa Steines, 855-447-8600, ext. 4517, dsg@cookandboardman.com
05 - Ovation In-Store	Audio / Video Equipment; Smart Response Technology - Customer Help Buttons	10	*	Vendor	Joe Miklos, 215-896-7322, jmiklos@ovationinstore.com
06 - PTR Baler & Compactor Co.	Trash Compactor / Baler	6	*	Vendor	Dawn Rischow, 484-534-5401, drischow@ptrco.com
08 - ImageOne	Graphics, Metal Architectural Elements, Distressed Logo (if required), Exterior Structure	15	*	Vendor	A.J. Rocchio, (215) 826-0880 x1150, arocchio@i1Ind.com
10 - Core Marketing / Kawneer	Alum. Storefront & Curtainwall, Alum. Win. Frames	4	GC	G.C.	Mary Jane Mangino, 724.443.0520, maryjane@coremarketing.com
11 - ImageOne	Exterior Signage, Mall Entrance Signage	4	DSG	Vendor	Kerry Tuma, 215-779-2384, I1dsgteam @ i1ind.com
12 - Lennox	HVAC Equipment / RTU's	8	*	G.C.	Razi Dole, 614-305-4387, razi.dole@Lennoxind.com
13 - Level 10	Data / Telephone Wiring, Paging System / Traf-Sys, Speakers	2	*	Vendor	DSG Mailbox, 847-805-9055, dsg@level10.com
15 - Retail Fixture Solutions, Inc	Backroom Shelving (including Conveyor System to Mezzanine when required), Dock Levelers / Dock Seals	10	*	Vendor	Kevin Hoffman, 972-923-0001 x 103, estimating@retailfixturesolutions.com
18 - Rexel Capitol Light	Switchgear, Lighting Fixtures	6	*	G.C.	Don Barr, 614-771-7366, don.barr@capitollight.com
19 - JCI / Sensormatic	CCTV, EAS	8	*	Vendor	Quotes: Jason.Barnett@jci.com (317.489.8062). Scheduling: Timothy.Rickert@jci.com (802-288-8195)
20 - Stanley Works	Automatic Entrance Doors	8	*	Vendor	Matt Kowalczyk, (860) 679-6430, StanleyDSGTeam@sbdinc.com
22 - Cornell Storefront Systems	Loading Dock Doors and/or Security Gate as applicable	4	*	Vendor	Jared Matushoneck, 800-882-6773 x 1617, jmatusoneck@cornellstorefronts.com
25 - Sherwin - Williams	Interior / Exterior Paint	2	GC	G.C.	James Geist, 724-933-1900, jim.t.geist@sherwin.com
29 - Sanico Company	Toilet Room Accessories, Cleaning Equipment & Products	4	GC	G.C.	John Sullivan, 800-333-2835 x 210, jsullivan@sanico.com

* When project is BTS, scope is purchased by Developer through GC; when RBTS, scope is purchased through DSG

Please note that Lead Time is Prototypical. Project specific Lead Time may vary due to scope of work.
The information contained herein supercedes any information that may have been issued prior to this date and is subject to change.

Vendor Matrix with Contact Info 2018 *Dick's Sporting Goods - Confidential* *3/29/2021 4:26:36 PM, Page 1 of 1*

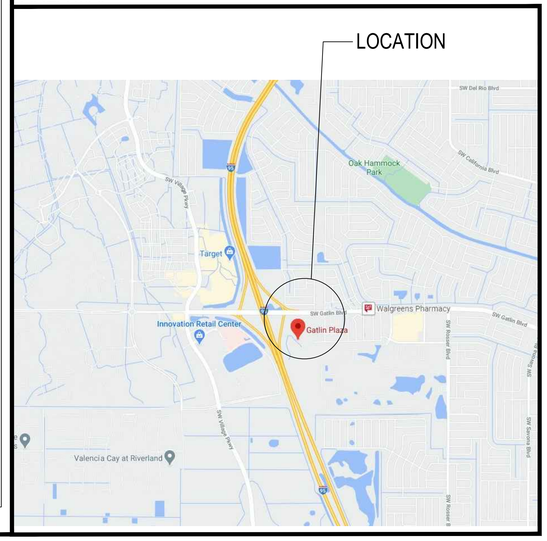
SET BASED ON F-1 PLAN DATED 02/26/2021

All work, materials, and systems shown in these plans and specifications, including all referenced national accounts, is the sole responsibility of the General Contractor to purchase, schedule, and install complete as shown and referenced. The Tenant (Golf Galaxy) has no scope of work and/or responsibility shown in these plans and/or specifications.

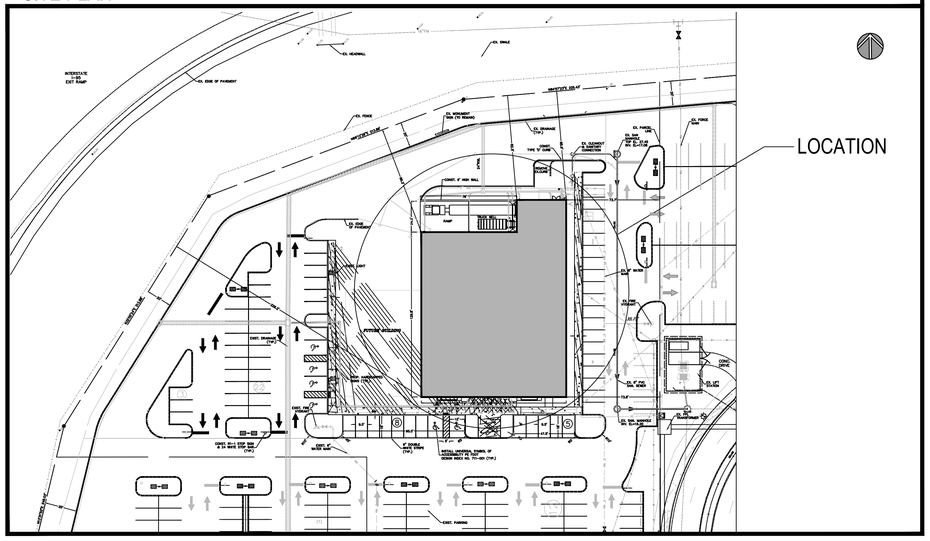
COMMISSIONING

GENERAL CONTRACTOR SHALL PROVIDE COMMISSIONING OF MECHANICAL AND ELECTRICAL SYSTEMS PER THE 2015 IECC, C408. COMMISSIONING SHALL BE COMPLETED BY A CITY APPROVED COMMISSIONING AGENCY. GENERAL, MECHANICAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE ALL COMMISSIONING REQUIREMENTS WITH THE COMMISSIONING AGENT.

AREA MAP



SITE PLAN



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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
COVER SHEET

SHEET NUMBER:
T1.0

PLAN REVIEW DATA

Applicable Codes:
A. Florida Building Code, 2020 7th Edition
B. Florida Building Code Residential, 2020 7th Edition
C. Florida Building Code Plumbing, 2020 7th Edition
D. Florida Building Code Mechanical, 2020 7th Edition
E. National Electric Code, 2017 Edition
F. Florida Building Code Existing, 2020 7th Edition
G. Florida Building Code Accessibility, 2020 7th Edition

Occupancy Group:
A. Mercantile (M) Section 309
B. Storage (S-1) Section 311
C. Business (B) Section 304

D. Mixed Use Occupancies (Section 508)
Seperated Occupancies (Section 508.4) Allowing No Rated (0 hour) seperation required at Stock Rooms or Offices (Table 508.4)

Building Height and Area:
A. Allowable Area: Unlimited Area, sprinklered, one-story w/ 60 feet public way or yard (507.4)
B. Allowable Height: 1 Story

Construction Type:
A. II-B (Table 601)

Automatic Sprinkler System
A. Fully sprinklered (903.2.7 & 903.3.1.1)
B. Manual Fire alarm system not required for Group M occupancies (907.2.7). where the building is equipped throughout with an automatic sprinkler system installed in accordance with section 903.3.1.1 and the occupant notification appliances will automatically activate throughout the notification zones upon sprinkler waterflow (exception #2.)

Occupant Load
A. Section 1004 Occupant Load
(Refer to Table 1004.1.2 for maximum floor area allowances per occupant)

Mercantile =	60 SF Gross/Occupant	(12,906 SF) =	216	Occupants
Business =	100 SF Gross/Occupant	(1,024 SF) =	10	Occupants
S-1 Storage =	300 SF Gross/Occupant	(1,048 SF) =	3	Occupants
		(14,978 SF) =	229	Occupants Total

Exit Capacity:
A. Number of exits: (1006.2.1) Total occupant load = 229 occupants = 2 exits, min
B. Number of exits provided: 3
C. Minimum exit width required (section 1005.3.2) :
C.1. Doors: 0.2 inches per person. 229 occupants x 0.2 = 46" of required door width
C.2. Note Section 1005.5 : 50% x 46" = 23" for remain exits if main exit (largest capacity) is blocked: (1) @ 23" = 23" (remaining doors must add up to a minimum 50% of egress width capacity)
D. Exit width provided:
D.1. 255" of Sales egress width provided.

Exit And Exit Access Doorway Configuration:
A. Separation of Exits: At least 2 exits shall be placed a distance apart equal to not less than one-half the length of the maximum overall diagonal dimension of the area being served (1007.1.1) . Exception 2: Distance shall not be less than one-third the diagonal length for fully-sprinklered buildings.
B. Maximum travel distance: 250 feet (Table 1017.2)

Other Life Safety Considerations:
IX. Minimum corridor width: 44" (1020.2)
IY. Dead end corridor: 20' maximum (1020.4) . Exception #2 . 50' maximum in Group M where building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
IZ. Door clear width: 32" minimum (1010.1.1)
JA. Interior finishes (Table 803.11) :
1. Vertical Exits/ Passageways - Class B
2. Exit Access Coorridors - Class C
3. Rooms/ Enclosed Spaces: Class C
4. Floor Finishes - Class II - Floor finish materials must comply with DOC FF-1 'pill test' (804.4.1)

Plumbing Fixture Analysis

MALE

Water Closets by Use Type
Retail (10 occ.@ 1/20)= 0.5 = 1 required.
1 WC's provided

Lavatories by use type
Retail (10 occ.@ 1/40)=0.25=1 required
1 provided

Drinking Fountains by use type
2 provided

Service Sink
1 required per floor, 1 provided

FEMALE

Water Closets by Use Type
Retail (10 occ.@ 1/20)= 0.5= 1 required.
1 WC's Provided

Lavatories by use type
Retail (10 occ.@ 1/40)=0.25=1 required
1 provided

FIRE EXTINGUISHERS

● FIRE EXTINGUISHERS

FIRE EXTINGUISHER SIZE AND PLACEMENT FOR CLASS A HAZARDS.
- 11,250 S.F. MAX. FLOOR AREA FOR EACH FIRE EXTINGUISHER.
- 75' MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER
- 1,500 SQ. FT. PER UNIT OF A
- MINIMUM RATED EXTINGUISHER - 2A-10B:C

FIRE EXTINGUISHER SIZE AND PLACEMENT FOR CLASS B HAZARDS.
- ORDINARY (MODERATE) HAZARD - Size 10B EXTINGUISHER RATING REQUIRES 30'-0" MAX. TRAVEL DISTANCE TO EXTINGUISHER.

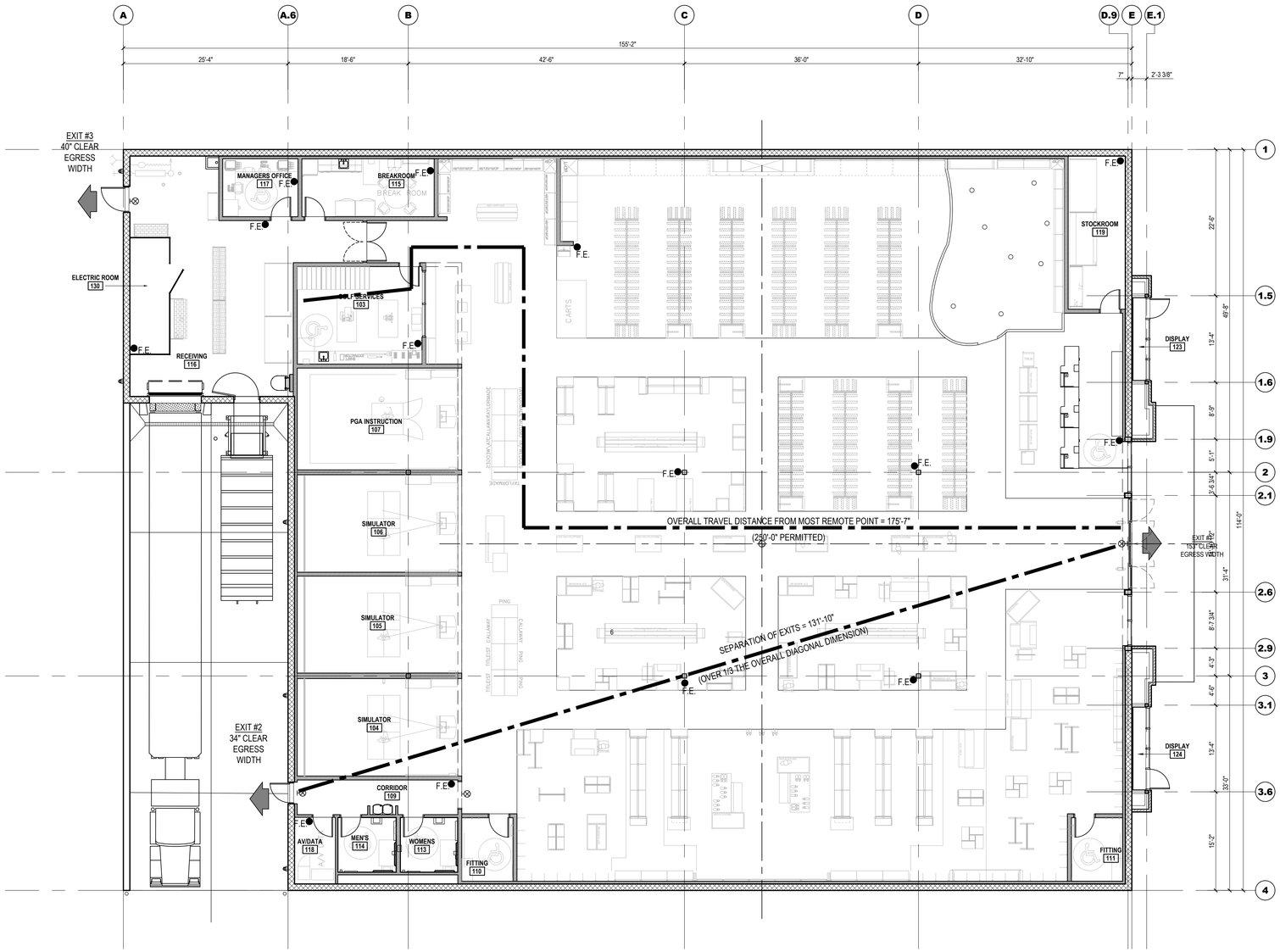
  Size 20B EXTINGUISHER RATING REQUIRES 50'-0" MAX. TRAVEL DISTANCE TO EXTINGUISHER.

FIRE EXTINGUISHER SIZE AND PLACEMENT FOR CLASS C HAZARDS.
- REQUIRED WHERE ENERGIZED ELECTRICAL EQUIPMENT CAN BE ENCOUNTERED THAT WOULD REQUIRE A NONCONDUCTING EXTINGUISHING MEDIUM.

FIRE EXTINGUISHER NOTES

INFORMATION BASED ON INTERNATIONAL FIRE CODE REQUIREMENTS AND 2015 NFPA-1 FOR AN ORDINARY (MODERATE HAZARD) OCCUPANCY

1. LOCATIONS AND QUANTITIES AS PROPOSED ARE BASED ON 2015 NFPA 1 . VERIFY & COORDINATE FINAL QUANTITIES, LOCATIONS, AND INSTALLATION WITH LOCAL JURISDICTION .
2. TOTAL FIRE EXTINGUISHERS = 12 UNITS ALL FIRE EXTINGUISHERS SHALL HAVE A GROSS WEIGHT NOT TO EXCEED 40 lbs AND ARE TO BE MOUNTED ON MOUNTING BRACKETS SO THAT THE BOTTOM OF UNIT IS 27" A.F.F. OR LOWER FOR CANE DETECTION. COORDINATE EXACT HEIGHT WITH LOCAL FIRE DEPARTMENT.
3. PLACE SALES FLOOR F.E.'s ON REAR SIDE OF COLUMNS AS SHOWN (OR AS ALLOWED BY FIXTURE PLACEMENT PER DSG's F-1 PLAN.



LIFE SAFETY
FLOOR PLAN
3/32" = 1'-0"

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
ARCHITECTURAL
LIFE SAFETY PLAN

SHEET NUMBER:
LS1.0

CLEAR FLOOR SPACE NOTES:
1. DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES (304.4)
2. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR SPACE MUST ADJOIN AN ACCESSIBLE ROUTE OR ANOTHER CLEAR FLOOR SPACE (305.6)
3. A CLEAR FLOOR SPACE IS REQUIRED AT ANY DEVICE WITH AN OPERABLE PART (309.2)

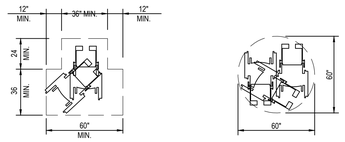


Fig. 304.3.2
T-SHAPED SPACE

Ref. 304.3.1
CIRCULAR SPACE

TURNING SPACE
Ref. Section 304

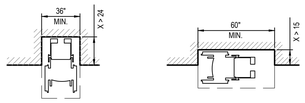
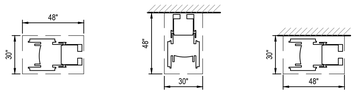


Fig. 305.7.1 Fig. 305.7.2

CLEAR FLOOR SPACE IN ALCOVES



CLEAR FLOOR SPACE
Fig. 305.3

FORWARD APPROACH
Fig. 305.5 (a)

PARALLEL APPROACH
Fig. 305.5 (b)

MINIMUM CLEAR FLOOR SPACE
Ref. Sections 304 & 305

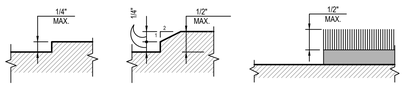
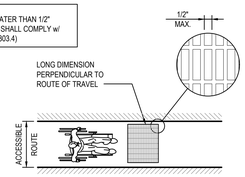


Fig. 303.2 Fig. 303.3

CHANGES IN LEVEL

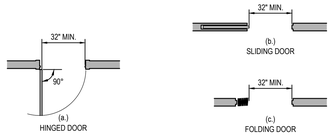
Fig. 302.2
CARPET PILE THICKNESS

NOTE:
CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE RAMPED, AND SHALL COMPLY w/ SECTIONS 405 OR 406. (303.4)



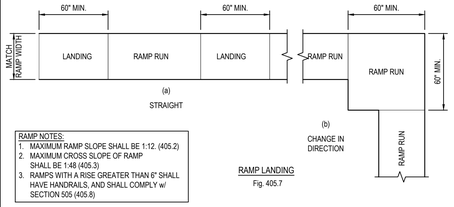
OPENINGS IN FLOOR OR GROUND SURFACE
Ref. Section 302.3

FLOOR & GROUND SURFACES
Ref. Sections 302 & 303



(a.) HINGED DOOR
(b.) SLIDING DOOR
(c.) FOLDING DOOR

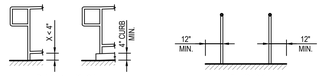
CLEAR WIDTH OF DOORWAYS
Fig. 404.2.3



(a) STRAIGHT
(b) CHANGE IN DIRECTION

RAMP NOTES:
1. MAXIMUM RAMP SLOPE SHALL BE 1:12. (405.2)
2. MAXIMUM CROSS SLOPE OF RAMP SHALL BE 1:48 (405.3)
3. RAMPS WITH A RISE GREATER THAN 6" SHALL HAVE HANDRAILS, AND SHALL COMPLY w/ SECTION 505 (405.8)

RAMP LANDING
Fig. 405.7

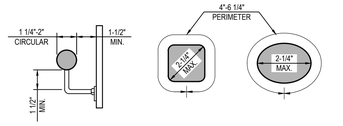


Ref. Section 405.9.2
BARRIER CURB

Fig. 405.9.1
EXTENDED FLOOR OR GROUND SURFACE

EDGE PROTECTION
Ref. Section 405.9

RAMPS
Ref. Section 405



HANDRAIL CLEARANCES
Fig. 505.5 & 505.6

NON-CIRCULAR HANDRAIL CROSS SECTIONS
Fig. 505.7.2

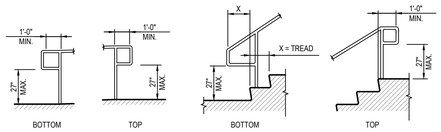
HANDRAIL SIZES & CLEARANCES

STAIRS
Fig. 505.4 (a)

RAMPS
Fig. 505.4 (b)

WALKING SURFACES
Fig. 505.4 (c)

HANDRAIL HEIGHTS
Ref. Section 505



BOTTOM TOP
HANDRAIL EXTENSIONS @ RAMP
Fig. 505.10.1

BOTTOM
Fig. 505.10.3

TOP
Fig. 505.10.2

HANDRAIL EXTENSIONS @ STAIR

NOTE:
MAXIMUM SLOPE OF A TREAD SURFACE SHALL BE 1:48 (504.4)

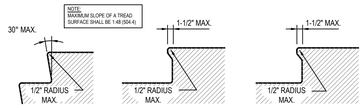
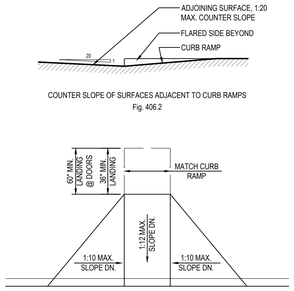


Fig. 504.5 (b) ANGLED RISER
Fig. 504.5 (c) CURVED NOSING
Fig. 504.5 (d) BEVELED NOSING

STAIRWAYS & HANDRAILS
Ref. Sections 504 & 505

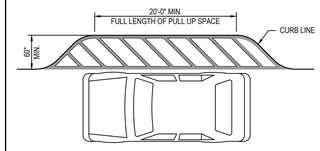


COUNTER SLOPE OF SURFACES ADJACENT TO CURB RAMPS
Fig. 406.2

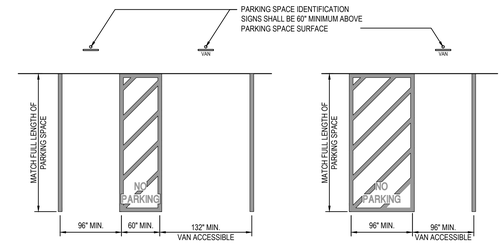
PLAN
Ref. Figures 406.3 & 406.4

CURB RAMPS
Ref. Section 406

GENERAL SITE NOTES:
1. ACCESSIBLE PARKING SPACES AND ACCESS AISLE SHALL BE LEVEL, MAXIMUM PERMITTED SLOPE IS 1:48 (502.2 & 502.3)
2. ACCESSIBLE PARKING SPACES MUST BE IDENTIFIED WITH A SIGN. SIGNS IDENTIFYING VAN ACCESSIBLE SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE". SIGNS SHALL BE MINIMUM 60" FROM THE PARKING SURFACE TO THE BOTTOM OF THE SIGN. (502.2.2 &502.2.3)



PASSENGER LOADING ZONE ACCESS AISLE
Fig. 503.3



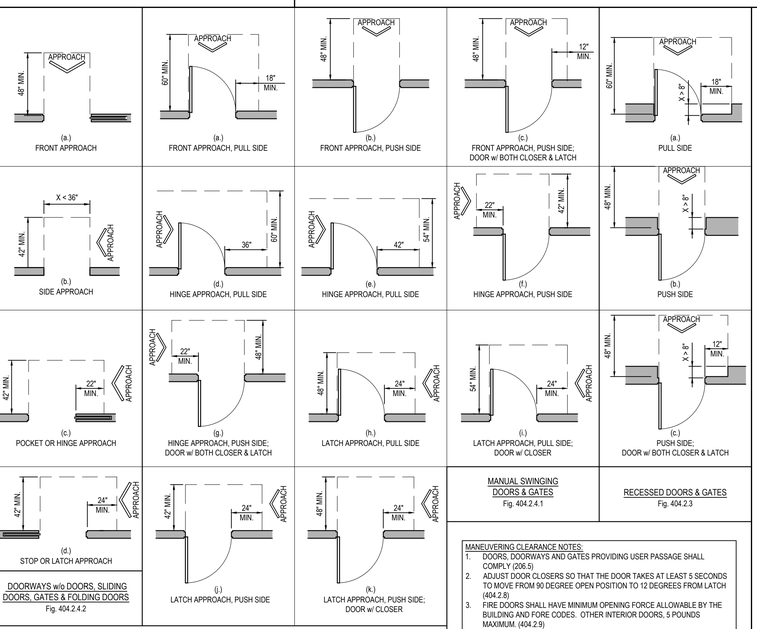
TYPICAL VEHICLE PARKING SPACES & ACCESS AISLE
Ref. Figures 502.2 & 502.3

OPTIONAL VAN ACCESSIBLE PARKING SPACE & ACCESS AISLE
Ref. Section 502.2 Exception

VEHICAL PARKING SPACES & ACCESS AISLE
Ref. Section 502

IDENTIFICATION
Ref. Section 502.6

PARKING & PASSENGER LOADING ZONES
Ref. Sections 502 & 503



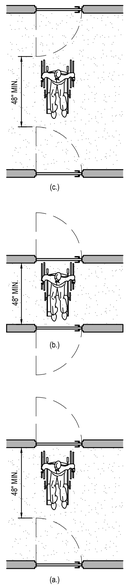
MANUAL SWINGING DOORS & GATES
Fig. 404.2.4.1

RECESSED DOORS & GATES
Fig. 404.2.3

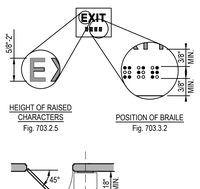
DOORWAYS w/o DOORS, SLIDING DOORS, GATES & FOLDING DOORS
Fig. 404.2.4.2

MANEUVERING CLEARANCE NOTES:
1. DOORS, DOORWAYS AND GATES PROVIDING USER PASSAGE SHALL COMPLY (206.5)
2. ADJUST DOOR CLOSERS SO THAT THE DOOR TAKES AT LEAST 5 SECONDS TO MOVE FROM 90 DEGREE OPEN POSITION TO 12 DEGREES FROM LATCH (404.2.8)
3. FIRE DOORS SHALL HAVE MINIMUM OPENING FORCE ALLOWABLE BY THE BUILDING AND FORE CODES. OTHER INTERIOR DOORS, 5 POUNDS MAXIMUM. (404.2.9)
4. MANEUVERING CLEARANCES ARE REQUIRED AT AUTOMATIC DOORS UNLESS DOOR OPERATION HAS STANDBY POWER (404.3.2)

MANEUVERING CLEARANCES
Ref. Section 404.2.3

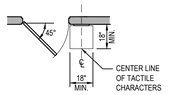


DOORS & GATES IN SERIES
Fig. 404.2.6



HEIGHT OF RAISED CHARACTERS
Fig. 703.2.5

POSITION OF BRAILE
Fig. 703.3.2



LOCATION OF TACTILE SIGNS AT DOORS
Fig. 703.4.2

TACTILE CHARACTER HEIGHT ABOVE FLOOR
Fig. 703.4.1

TACTILE SIGN NOTES:
1. RAISED CHARACTERS SHALL COMPLY WITH 703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 703.4. (703.2)
2. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703.3 AND 703.4. (703.3)
3. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. (703.3.2)
4. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES (150 MM) MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD. (703.6.1)
5. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. (703.6.2)

TACTILE SIGNS
Ref. Section 703

ACCESSIBLE GUIDELINES

THIS DRAWING IS A REPRESENTATIVE SUMMARY OF THE REQUIREMENTS OF THE 2010 ADA STANDARDS THAT MAY BE APPLICABLE TO THE PROJECT. WHERE SPECIFIC DIMENSIONAL INFORMATION AND CLEARANCES ARE NOT NOTED ON THE DRAWINGS, CONSTRUCT TO THE CLEARANCES AND TOLERANCES SHOWN ON THIS SHEET. WHERE DRAWINGS SPECIFICALLY INDICATE DIFFERENT OR CONFLICTING INFORMATION TO THE STANDARDS DEPICTED ON THIS SHEET, CONSTRUCT USING THE MORE STRINGENT REQUIREMENT OR CONTACT THE ARCHITECT FOR RESOLUTION

NOTE:
REACHABLE PART OF ANY DEVICE SHALL BE INSTALLED WITHIN THE REACHES SHOWN (308)

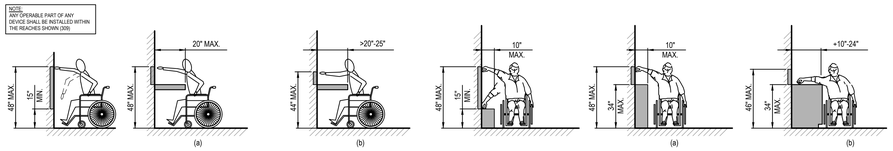


Fig. 308.2.1 UNOBSTRUCTED FORWARD REACH
Fig. 308.2.2 OBSTRUCTED HIGH FORWARD REACH
Fig. 308.3.1 UNOBSTRUCTED SIDE REACH
Fig. 308.3.2 OBSTRUCTED HIGH SIDE REACH

REACH RANGES
Ref. Section 308

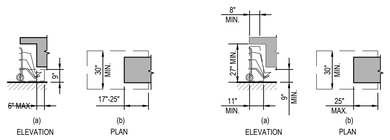


Fig. 306.2 TOE CLEARANCES
Fig. 306.3 KNEE CLEARANCES

KNEE & TOE CLEARANCES
Ref. Section 306

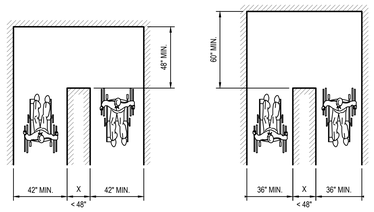
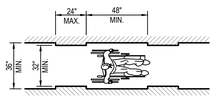


Fig. 403.5.2 (a) Fig. 403.5.2 (b)

CLEAR WIDTHS AT 180 DEGREE TURNS



CLEAR WIDTHS
Fig. 403.5.1

ACCESSIBLE ROUTE NOTE:
THE SLOPE OF A WALKING SURFACE ALONG AN ACCESSIBLE ROUTE SHALL NOT BE STEEPER THAN 1:20 AND CROSS SLOPES SHALL NOT EXCEED 1:48 (402)

ACCESSIBLE ROUTE
Ref. Section 402

NOTES:
1. PROTRUDING OBJECTS SHALL NOT REDUCE THE REQUIRED WIDTH OF AN ACCESSIBLE ROUTE (307.5)
2. PROTRUDING OBJECTS ON A CIRCULATION PATH SHALL COMPLY w/ SECTION 307 (204.1)

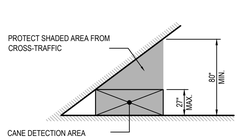


Fig. 307.5
VERTICAL CLEARANCES

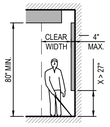


Fig. 307.2
LIMITS OF PROTRUDING OBJECTS

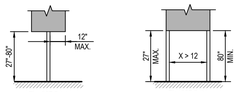


Fig. 307.3 (a) Fig. 307.3 (b)

POST-MOUNTED PROTRUDING OBJECTS

PROTRUDING OBJECTS
Ref. Section 307

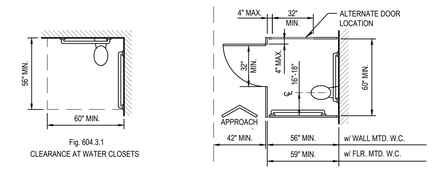


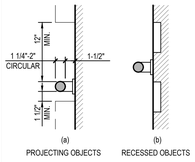
Fig. 604.3.1
CLEARANCE AT WATER CLOSETS

WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT
Ref. Section 604

(a) ELEVATION
(c) PLAN

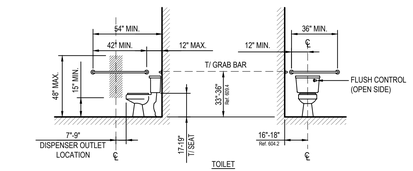
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE
Fig. 604.8.2

AMBULATORY ACCESSIBLE TOILET COMPARTMENT
Fig. 604.8.2

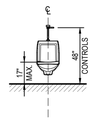


(a) PROJECTING OBJECTS
(b) RECESSED OBJECTS

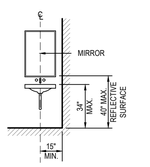
SPACING OF GRAB BARS
Fig. 609.3



TOILET



URINAL
Ref. Section 605

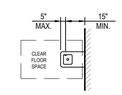


LAVATORY
Ref. Sections 606 & 603.3

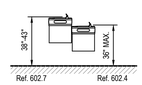
TOILET ROOM CLEARANCES & MOUNTING HEIGHTS
Ref. Chapter 6

TOILET ROOM NOTES:
1. A TURNING SPACE PER SECTION 304 IS REQUIRED WITHIN A TOILET ROOM (603.2.1)
2. ONLY THE FOLLOWING OBJECTS ARE PERMITTED TO OVERLAP THE REQUIRED CLEARANCE: GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNIT, COAT HOOKS AND SHELVES (604.3.2)
3. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET (604.6)
4. URINALS SHALL HAVE A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH AND CENTERED ON UNIT (605.3)
5. LAVATORIES SHALL HAVE A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH AND CENTERED ON UNIT (606.2)
6. KNEE & TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED (602.2)
7. EXPOSED WATER SUPPLY AND DRAIN PIPES SHALL BE INSULATED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES (606.5)
8. INSTALL GRAB BARS TO WITHSTAND NOT LESS THAN A 250 POUND FORCE APPLIED AT ANY POINT ON THE BAR (609.8)

DRINKING FOUNTAIN NOTES:
1. KNEE & TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED (602.2)
2. WHERE A DRINKING FOUNTAIN IS REQUIRED, TWO SHALL BE PROVIDED; ONE HIGH & ONE LOW (211.2)
3. UNITS SHALL HAVE A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH AND CENTERED ON UNIT (602.2)



DRINKING FOUNTAIN SPOUT LOCATION
Fig. 602.5



Ref. 602.7 Ref. 602.4

DRINKING FOUNTAIN OUTLET HEIGHTS

DRINKING FOUNTAIN
Ref. Section 602

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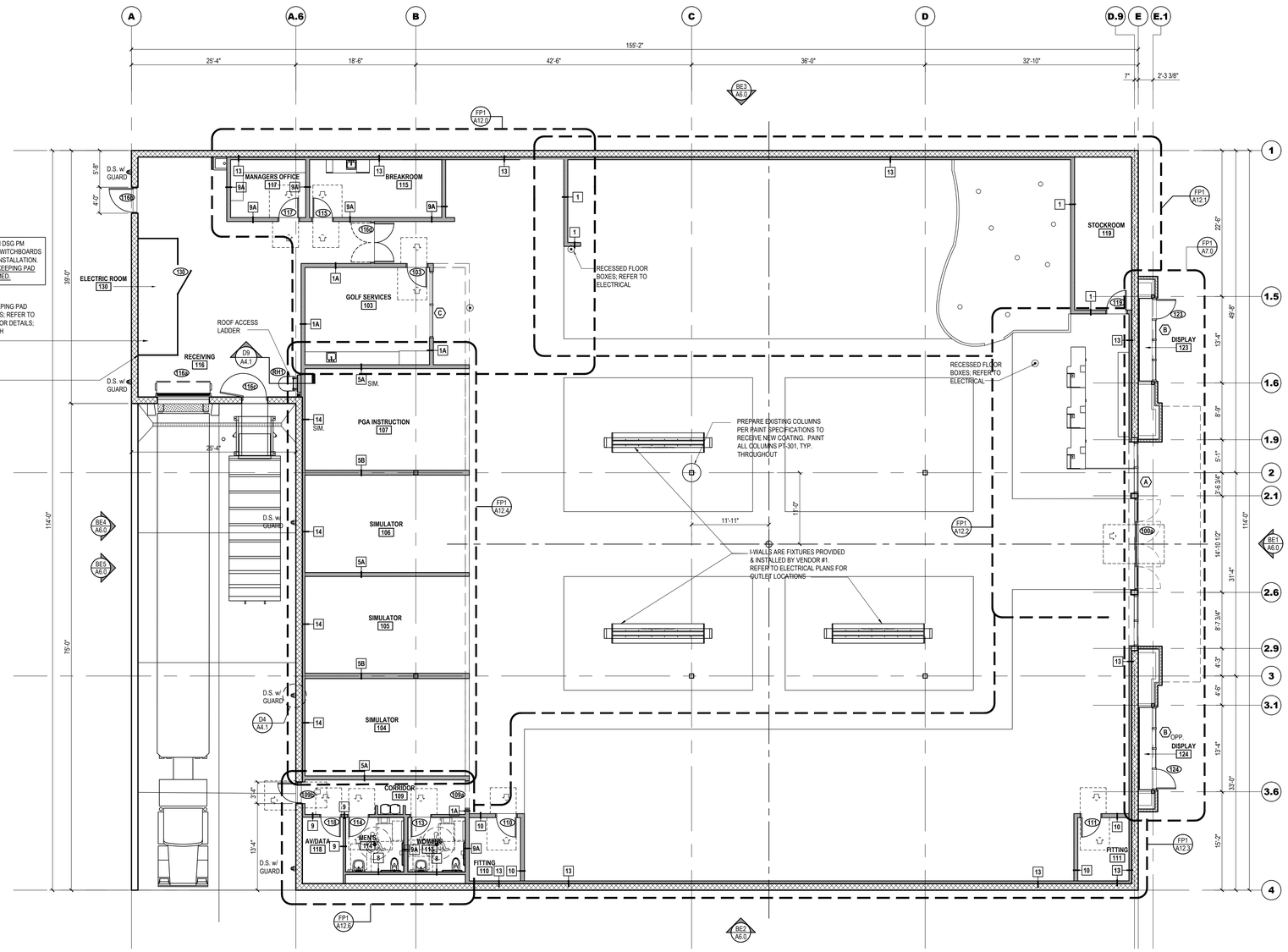
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
2010 ADA STANDARDS

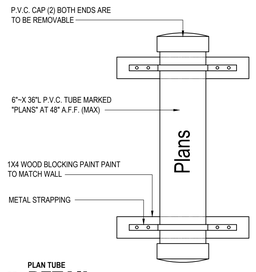
SHEET NUMBER:
ADA.0



G.C. TO CONFIRM WITH DSG PM EXACT LOCATION OF SWITCHBOARDS ONE WEEK PRIOR TO INSTALLATION. DO NOT POUR HOUSEKEEPING PAD UNTIL THIS IS CONFIRMED.

CONCRETE HOUSEKEEPING PAD UNDER SWITCHBOARDS; REFER TO STRUCTURAL SHEET FOR DETAILS; COORDINATE SIZE WITH MANUFACTURER.

CHAIN LINK FENCING TO 8'-0" A.F.F. ANCHOR POSTS TO SLAB AS REQUIRED



PLAN TUBE
D1 DETAIL
SCALE 1 1/2" = 1'-0"

NOTE: PLAN TUBE PROVIDED BY VENDOR #1. (SHOWN FOR REFERENCE ONLY) INSTALL PER LOCATION AS SHOWN ON FLOOR PLAN. CONTRACTOR IS TO PROVIDE ONE (1) COMPLETE SET OF CONSTRUCTION DRAWINGS

GENERAL NOTES

1. FOR WOOD BLOCKING REQUIREMENTS, G.C. SHALL REFER TO SPECIFICATIONS & SHEET A2.2.
2. DIMENSIONS OF WALLS ARE FROM FINISHED FACE TO FINISHED FACE UNLESS NOTED OTHERWISE.
3. PROVIDE SOUND BATT INSULATION IN ALL WALLS AND CEILINGS OF EACH OF THE FOLLOWING ROOMS - MENS, WOMENS, BREAK ROOM, OFFICES, CASH / COUNT ROOM, AND LOSS PREVENTION.
4. ALL PLUMBING ACCESS PANEL LOCATIONS REQUIRED SHALL BE COORDINATED WITH PLUMBING DRAWINGS, MANUFACTURER'S SHOP DRAWINGS, AND DSG PROJECT MANAGER.
5. G.C. SHALL INSTALL FIRE BLOCKING AND DRAFT STOPPING IN COMBUSTIBLE CONCEALED WALL LOCATIONS EVERY 10'-0" o.c. BOTH HORIZONTALLY & VERTICALLY AS REQUIRED BY CODE.
6. ALSO REFER TO SHEETS A12.0 THRU A12.7 FOR ADDITIONAL REFERENCES TO WALL SECTIONS

WALL LEGEND

ALSO REFER TO ENLARGED FLOOR PLANS & INTERIOR ELEVATION SHEETS FOR WALL SIZES & SECTION TAGS

	EXISTING EXTERIOR OR DEMISING WALL
	GYPSUM BOARD & METAL STUD WALL CONSTRUCTION (REFER TO ENLARGED FLOOR PLANS FOR NOMINAL WALL THICKNESS)
X	REFER TO SHEET A1.2 FOR PARTITION TYPE INFORMATION AS NOTED
	CHAIN LINK FENCE ENCLOSURE

ARCHITECTURAL
FLOOR PLAN
1/8" = 1'-0"

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GOLF GALAXY

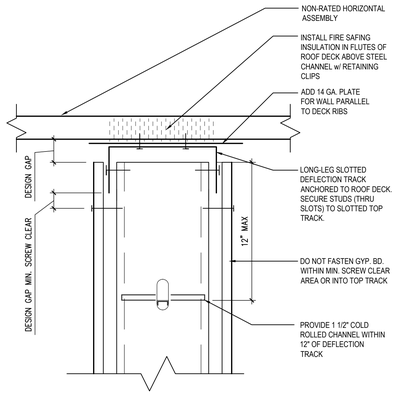
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

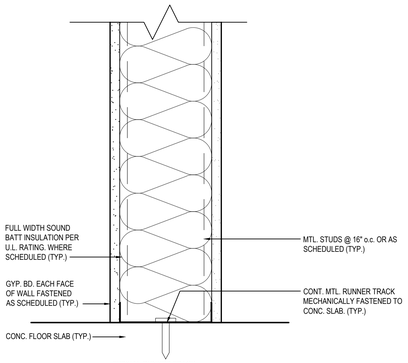
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
ARCHITECTURAL FLOOR PLAN

SHEET NUMBER:
A1.0



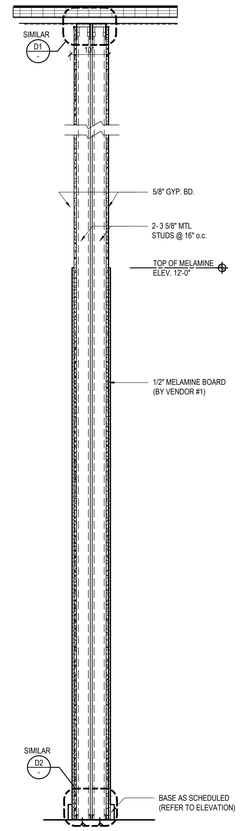
TYPICAL DEFLECTION CLIP
D1 DETAIL
3"=1'-0"



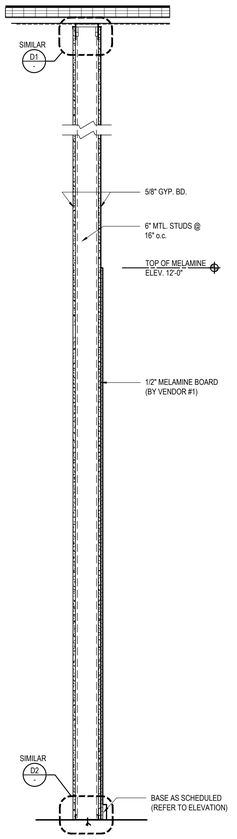
TYPICAL RUNNER TRACK
D2 DETAIL
3"=1'-0"

NOTE: REFER TO INTERIOR ELEVATIONS (A12 SHEETS) FOR ANY ADDITIONAL REQUIRED FINISHES AND TO LOCATE LOZIER FIXTURES SO AS TO IDENTIFY EXTENT OF GYPSUM BOARD (NOT REQUIRED BEHIND LOZIER FROM 9'-9 1/2" AND BELOW, TYP. U.N.O- REFER TO BLOCKING DETAILS ON A2.2). DO NOT OMIT GYP BOARD ON EXTERIOR WALLS DUE TO FLAME SPREAD PROPERTIES OF RIGID INSULATION.

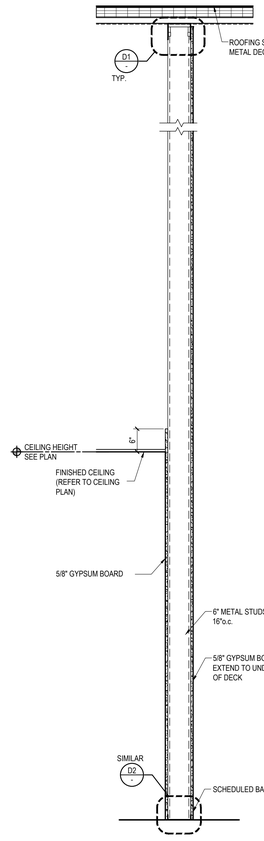
NOTE: ALL WALLS TO DECK ARE TO BE BUILT TO DECK WITH NO INTERRUPTIONS TO GRAPHICS, MILLWORK OR PAINT STRIPES, U.N.O.



5B FOR SIMULATOR ROOMS WHERE REFERENCED IN PLAN, REPLACE THE MELAMINE WITH 1/2" FRT PLYWOOD



5A FOR SIMULATOR ROOMS WHERE REFERENCED IN PLAN, REPLACE THE MELAMINE WITH 1/2" FRT PLYWOOD



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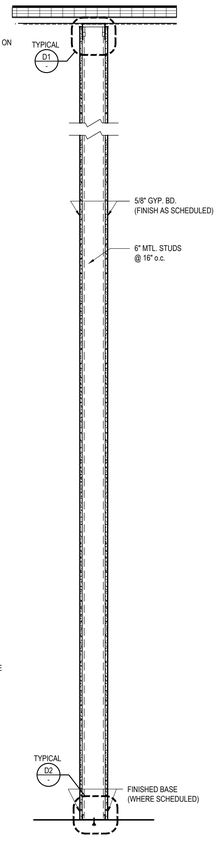
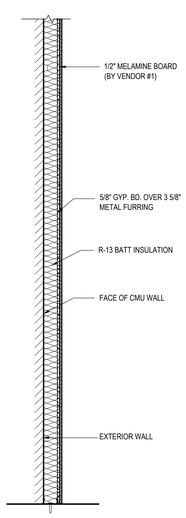
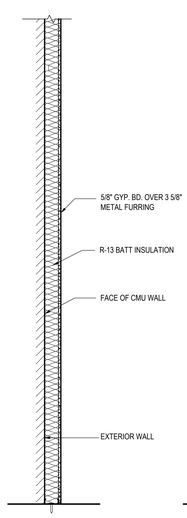


1

THE GENERAL CONTRACTOR IS TO SELECT MATERIAL THICKNESSES BASED ON THE "SSMA PRODUCT TECHNICAL INFORMATION" MANUAL FOR LIMITING WALL HEIGHT TABLES FOR ALL INTERIOR PARTITIONS USING 5 PSF LATERAL LOAD AND MAX DEFLECTION OF L/240.



14 FOR SIMULATOR ROOMS WHERE REFERENCED IN PLAN, REPLACE THE MELAMINE WITH 1/2" FRT PLYWOOD



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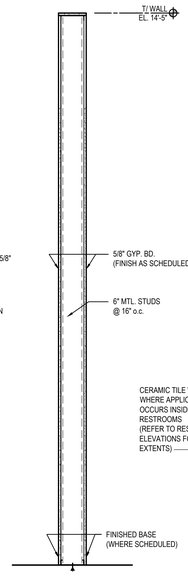

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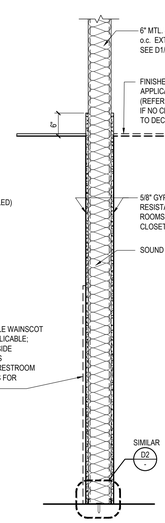

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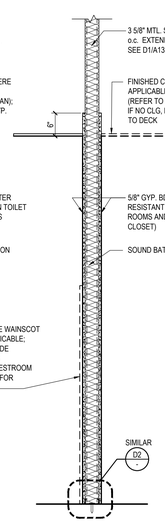

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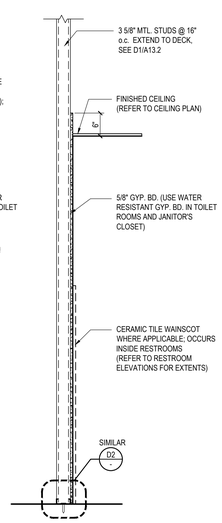

8

NOTE: ADDITIONAL IN-WALL BLOCKING MAY OCCUR THAT AFFECTS WALL THICKNESS. REFER TO A2.2 FOR ALL BLOCKING REQUIREMENTS.

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GOLF GALAXY

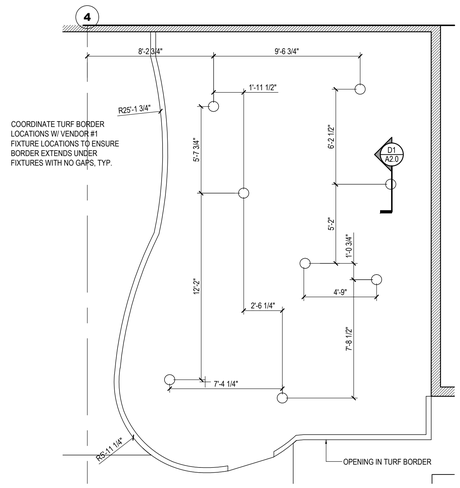
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
PARTITION TYPES

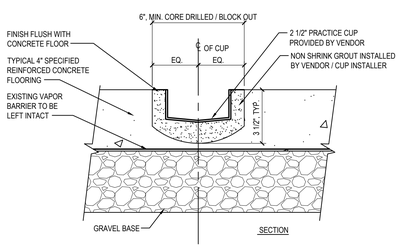
SHEET NUMBER:
A1.2



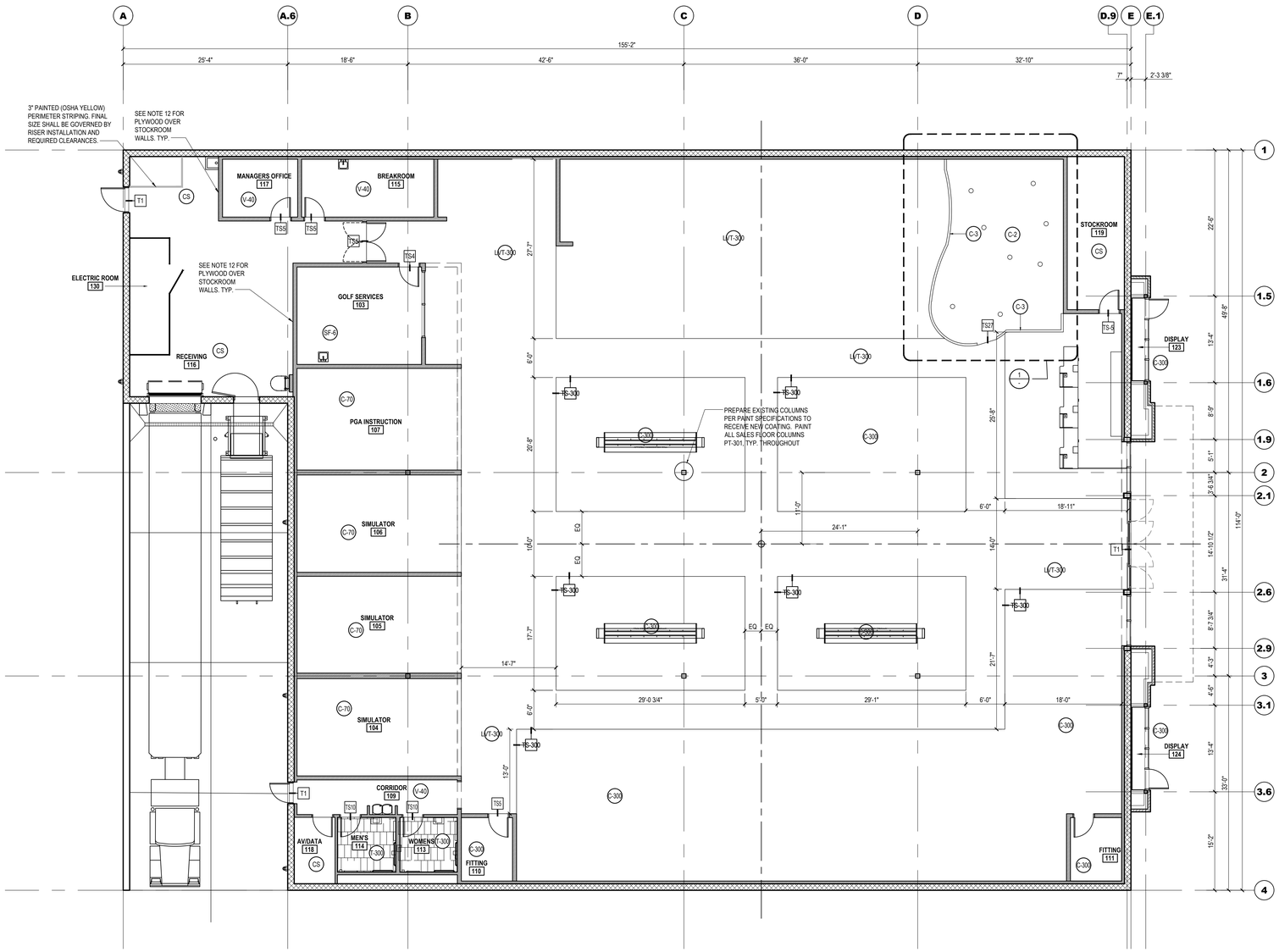
PUTTING GREEN
1 ENLARGED PLAN
1/4" = 1'-0"

NOTES

1. AS AN ALTERNATE FOR PLASTIC LAMINATES, THE GENERAL CONTRACTOR MAY PROVIDE THERMOFUSED MELAMINE PANEL AS MFGR'D BY VENDOR #1. ALL PANEL COLORS MUST MATCH THOSE OF THE PLASTIC LAMINATE COLORS LISTED IN FINISH SCHEDULE. ALL PLASTIC LAMINATES AND MELAMINE FINISHES ARE MATTE (UNLESS OTHERWISE NOTED)
2. SEE DETAILS OF TRANSITION STRIPS ON SHEET A6.0
3. PAINT ALL EXPOSED DUCTWORK, WIRING, CABLES, ELECTRICAL BOXES, EMERGENCY LIGHT BRACKETS, ETC., ON THE SALES FLOOR TO MATCH THE DECK COLOR.
4. ALL EDGES OF ALL TRIM BOARDS AT EDGES OF SLATWALL THROUGHOUT STORE ARE TO BE PAINTED BLACK. ALL OTHERS TO MATCH FINISH ON FACE OF TRIM BOARDS.
5. INSTALLATION OF SLATWALL TO ADHERE TO MANUFACTURERS RECOMMENDATIONS AND MAINTENANCE SPECIFICATIONS.
6. NO COLOR OR MATERIAL SELECTIONS (INCLUDING FLOORING, CARPETING, PAINT, PLASTIC LAMINATE, METAL FINISHES, ETC.) ARE TO BE SUBSTITUTED WITHOUT PRIOR WRITTEN APPROVAL OF DICK'S.
7. REFER TO SPECIFICATIONS FOR PAINT FINISHES OF ALL MATERIALS AND SURFACES.
8. PAINT 2" STRIPE (P-107) IN NEW STOCKROOMS @ 12'-0" A.F.F.; ALL GYP. BD. WALLS IN STOCK AREAS TO HAVE LEVEL 2 FINISH ONLY. PRIME AND PAINT ALL EXISTING STOCKROOM WALLS AND DOORS. REFER TO A1.0. PRIME AND PAINT ALL EXISTING WALLS AND DOORS IN EXIT CORRIDORS P-10
9. PAINT ALL WALL LOUVERS TO MATCH ADJACENT WALL FINISHES.
10. PREPARE EXISTING AND NEW CONCRETE SLABS FOR INSTALLATION OF NEW WOOD, RESILIENT TILE, CARPET AND EXPOSED CONCRETE FLOORS. GRIND OFF ALL HIGH SPOTS. FILL ALL LOW SPOTS, HOLES AND CRACKS WITH CEMENT -BASED, POLYMER MODIFIED, SELF LEVELING PRODUCT THAT CAN BE APPLIED IN THICKNESS FROM 1/8" AND THAT CAN BE FEATHERED AT EDGES TO MATCH ADJACENT FLOOR ELEVATIONS. COMPRESSIVE STRENGTH NOT LESS THAN 4000 PSI.
11. ALL MILLWORK TRIM TOUCH-UP TO BE BY G.C.
12. PAINT ALL SALES FLOOR COLUMNS PT-301.
13. REFER TO THE A12 SHEETS FOR EXTENT OF BASE B-300.
14. G.C. TO PAINT ALL EXPOSED SALES FLOOR CONDUIT, INCLUDING DROPS FOR BA & CCTV. CONDUIT PAINT COLOR TO MATCH ADJACENT SURFACE (WALL, CEILING, COLUMN, ETC.) DROPS SUSPENDED FROM CEILING ON SALES FLOOR AWAY FROM A VERTICAL SURFACE SHALL BE PAINTED TO MATCH CEILING.



PUTTING GREEN CUP
D1 DETAIL
1 1/2" = 1'-0"



ARCHITECTURAL FINISH
FLOOR PLAN
3/32" = 1'-0"

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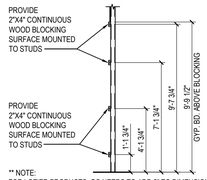
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

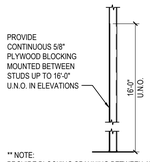
DRAWING:
ARCHITECTURAL FINISH FLOOR PLAN

SHEET NUMBER:
A2.0



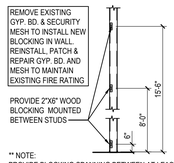
** NOTE:
FOR LOZIER PRODUCTS, GC NEEDS TO ADD 2" TO DIMENSIONS PER RUN (1" EA. END) TO ACCOUNT FOR LAST UPRITE. COORDINATE DIMENSIONS WITH VENDOR #1

LOZIER - 10'
A BLOCKING DETAIL
NOT TO SCALE



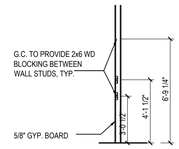
** NOTE:
PROVIDE BLOCKING SPANNING BETWEEN AT LEAST 2 STUD CAVITIES BEHIND PILASTER LOCATIONS.

PILASTER/FOCAL
F BLOCKING DETAIL
NOT TO SCALE

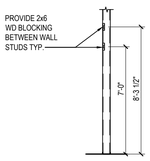


** NOTE:
PROVIDE BLOCKING SPANNING BETWEEN AT LEAST 2 STUD CAVITIES BEHIND PILASTER LOCATIONS.

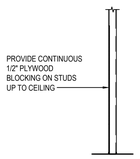
PILASTER/FOCAL AT RATED WALL
F1 BLOCKING DETAIL
NOT TO SCALE



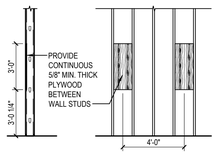
GOLF PUTTER WALL
H BLOCKING DETAIL
NOT TO SCALE



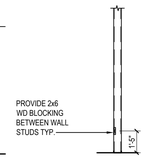
WALL MOUNTED TV
M BLOCKING DETAIL
NOT TO SCALE



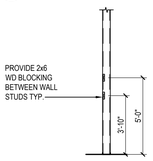
OFFICES
R BLOCKING DETAIL
NOT TO SCALE



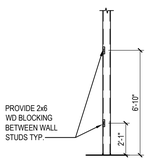
BREAK ROOM COAT RACK
S BLOCKING DETAIL
NOT TO SCALE



FITTING ROOM BENCH
X BLOCKING DETAIL
NOT TO SCALE



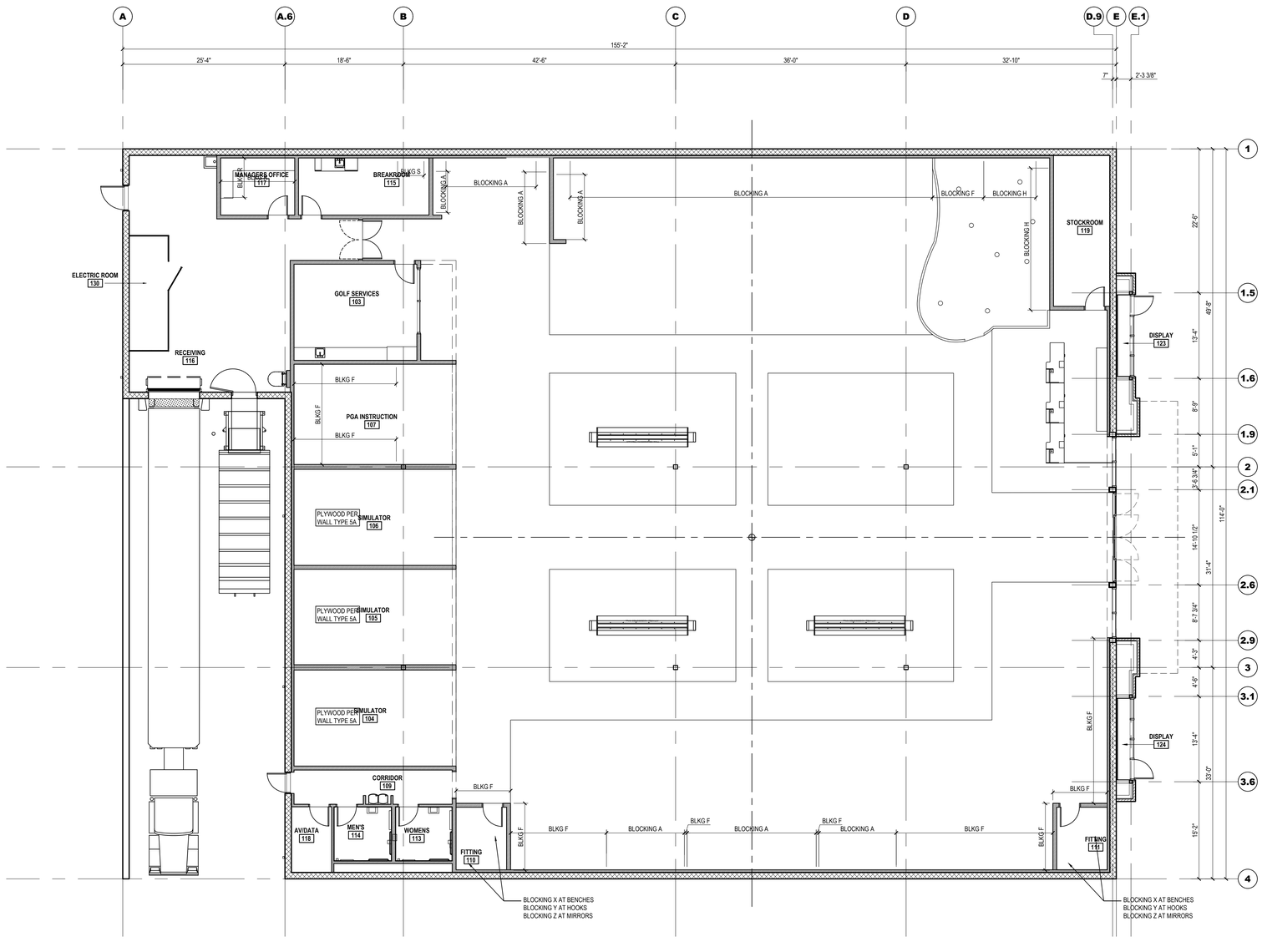
FITTING ROOM HOOKS
Y BLOCKING DETAIL
NOT TO SCALE



FITTING ROOM MIRROR
Z BLOCKING DETAIL
NOT TO SCALE

VENDOR BLOCKING NOTES:

PROVIDE BLOCKING FOR FIXTURES AS INDICATED IN THE DETAILS. COORDINATE ALL BLOCKING WITH THE VENDORS. FRT BLOCKING TO BE INSTALLED IN RATED (IF APPLICABLE) & EXTERIOR WALLS. ADDITIONAL BLOCKING IS REQUIRED AS PER DETAILS THIS SHEET



ARCHITECTURAL BLOCKING
FLOOR PLAN
1/8" = 1'-0"

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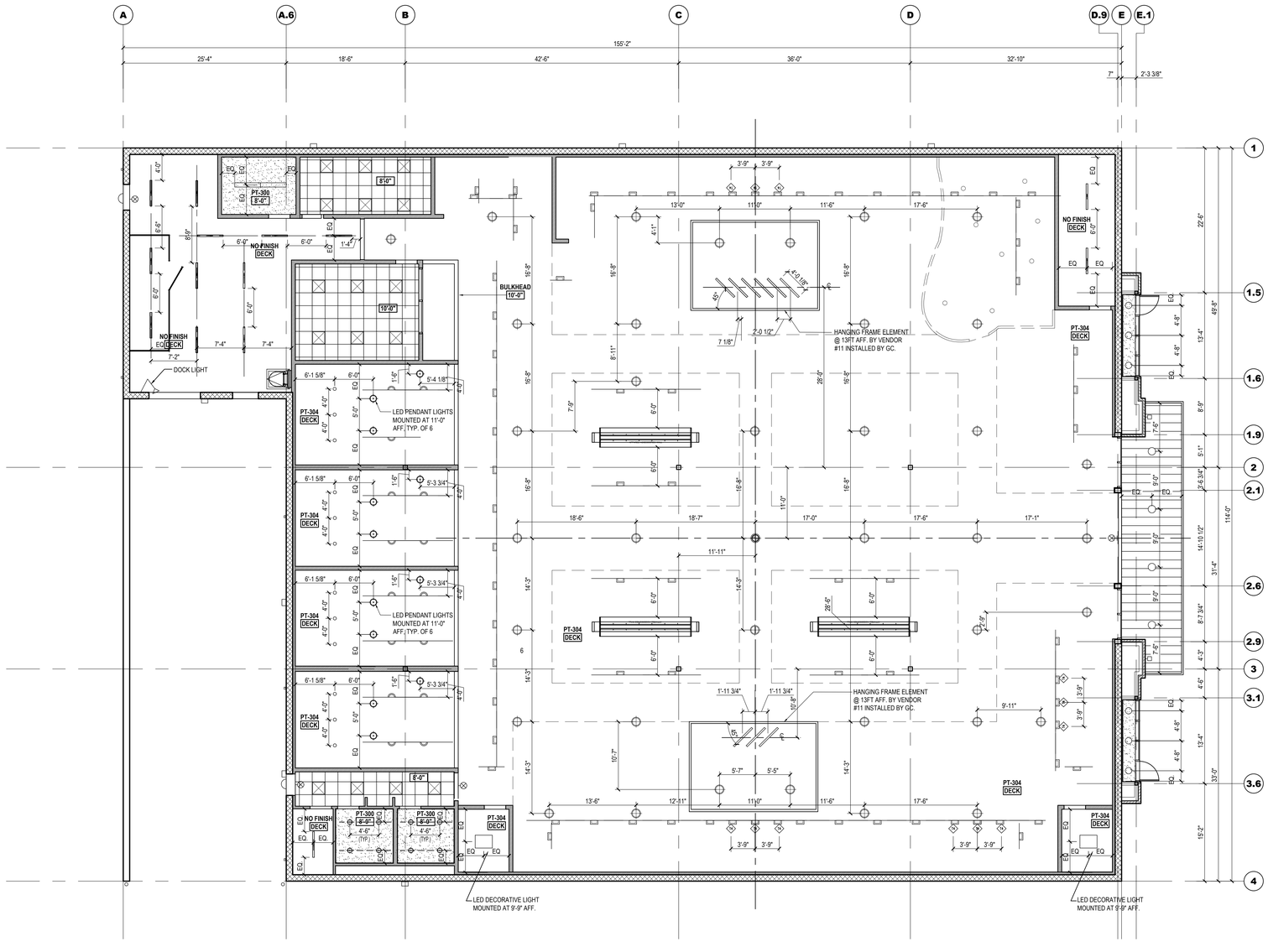
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
ARCHITECTURAL BLOCKING FLOOR PLAN

SHEET NUMBER:
A2.2



LEGEND

REFER TO ELECTRICAL SHEETS FOR FULL LIGHTING SCHEDULE

SYMBOL	DESCRIPTION
	PENDANT HI-BAY LIGHT FIXTURE (REFER TO ELECTRICAL) MOUNTED AT 13'-6" A.F.F.
	9" ROUND SLIM SURFACE LED - SURFACE-MOUNTED ON RESTROOM CEILING
	TRACK LIGHTS; MOUNT BOTTOM OF TRACK @ 13'-6" A.F.F. (REFER TO ELECTRICAL)
	DECORATIVE PENDANT LIGHT FIXTURE (REFER TO ELECTRICAL) SEE PLAN FOR MOUNTING HEIGHT
	RECESSED DOWNLIGHT; (REFER TO ELECTRICAL)
	2'-0" x 2'-0" LED FIXTURE
	4'-0" LONG SURFACE MOUNTED LED FIXTURE
	4'-0" LED LINEAR LUMINAIRE, PENDANT MOUNTED UNLESS NOTED OTHERWISE (15'-0" A.F.F.)
	8'-0" LED LINEAR LUMINAIRE, PENDANT MOUNTED UNLESS NOTED OTHERWISE (15'-0" A.F.F.)
	4'-0" LED LINEAR PENDANT MOUNTED UNLESS NOTED OTHERWISE (10'-0" A.F.F.)
	TRACK LIGHTS; MOUNT BOTTOM OF TRACK @ 13'-6" A.F.F. (REFER TO ELECTRICAL)
	RECESSED WALLWASHERS; MOUNT INSIDE OF LAY-IN CEILING (REFER TO ELECTRICAL)
	CEILING MOUNTED EXIT SIGN LIGHT FIXTURE (REFER TO ELECTRICAL)
	SURFACE MOUNTED EXIT SIGN AND LIGHTING (REFER TO ELECTRICAL)
	5/8" GYPSUM BOARD CEILING PAINTED P-10 UNLESS OTHERWISE NOTED (REFER TO PLAN FOR HEIGHTS)
	2'-0" x 2'-0" SUSPENDED ACOUSTICAL CEILING (REFER TO PLAN FOR HEIGHTS)
XXX	CEILING FINISH
XXX	CEILING HEIGHT

ARCHITECTURAL
CEILING PLAN
1/8" = 1'-0"

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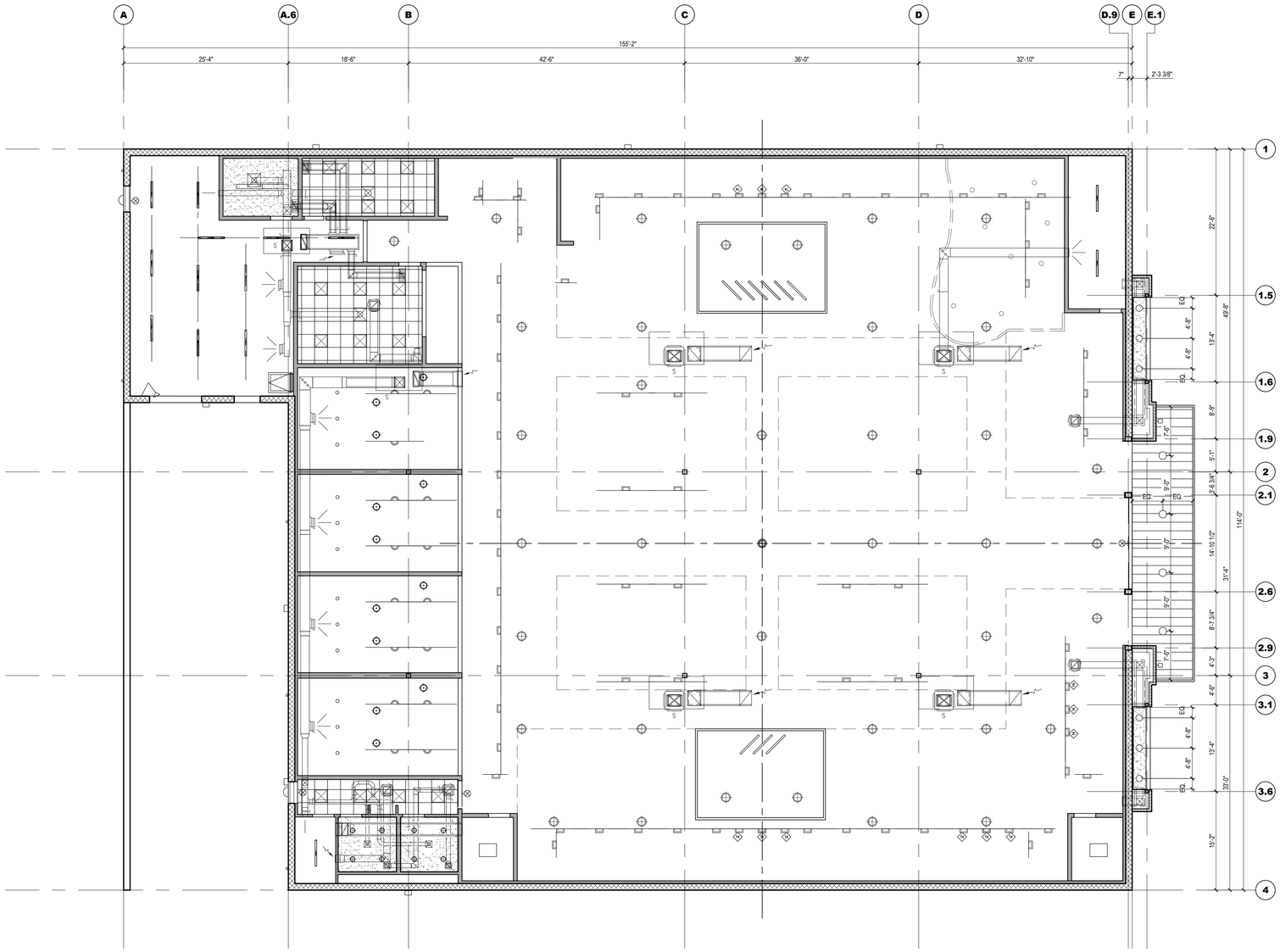
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
ARCHITECTURAL CEILING PLAN

SHEET NUMBER:
A3.0



ARCHITECTURAL
CEILING PLAN
3/32" = 1'-0"

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GOLF GALAXY

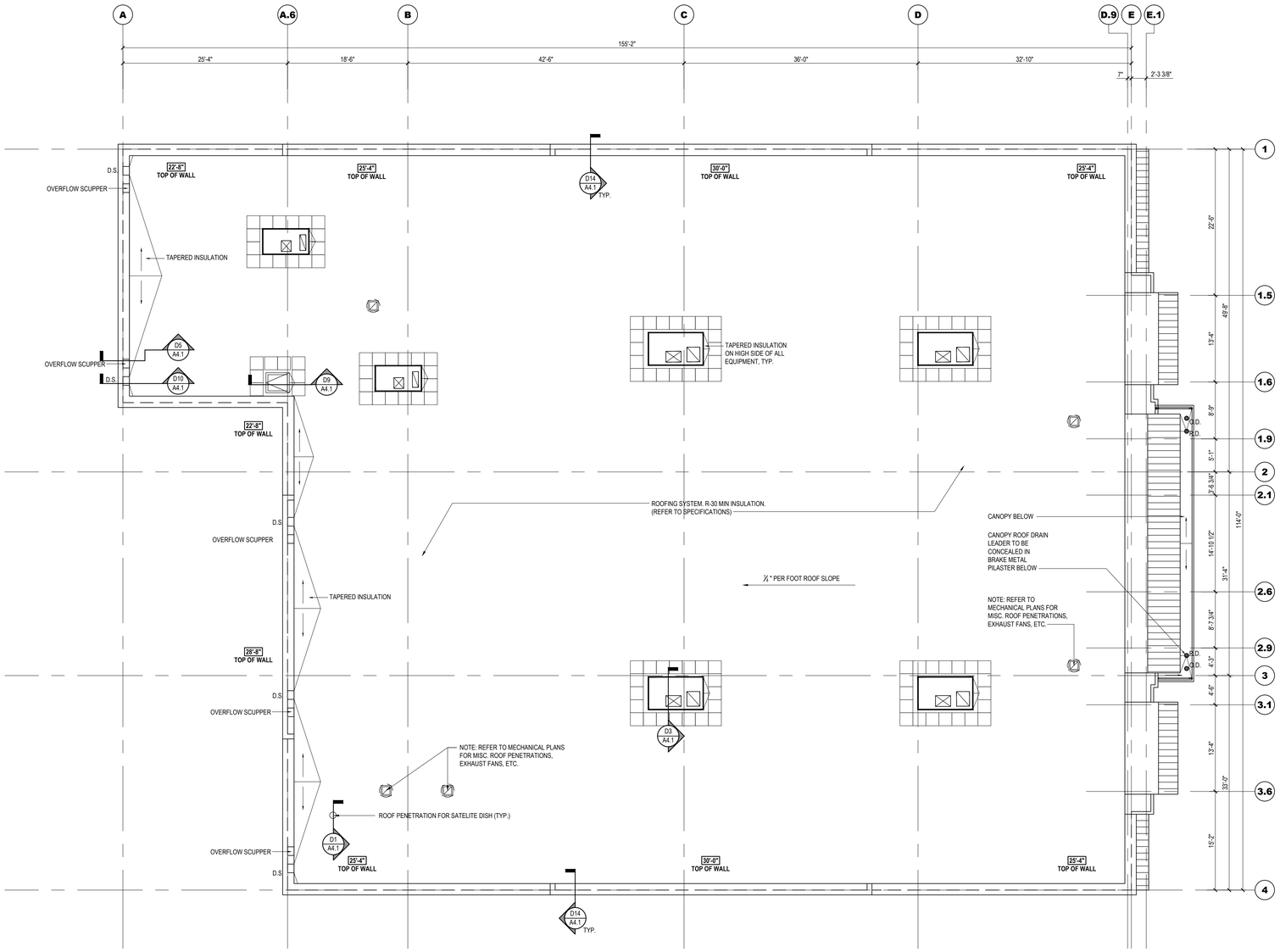
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
ARCHITECTURAL CEILING COORDINATION PLAN

SHEET NUMBER:
A3.1



ARCHITECTURAL
ROOF PLAN
3/32" = 1'-0"

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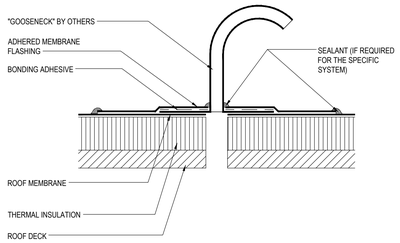
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

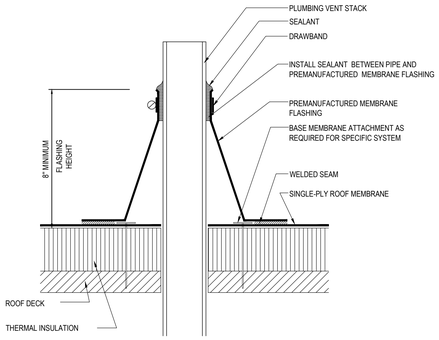
PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
ARCHITECTURAL
ROOF PLAN

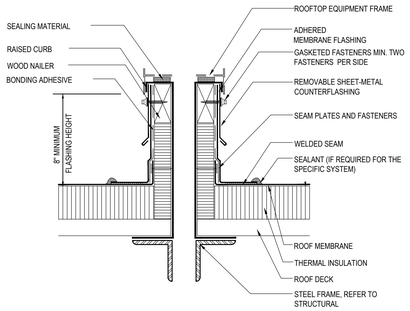
SHEET NUMBER:
A4.0



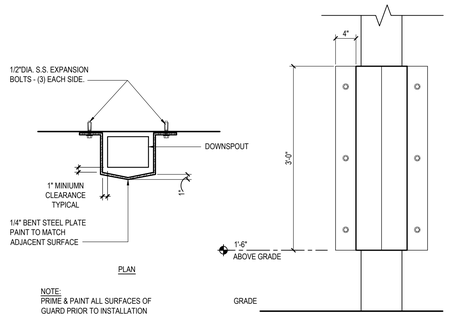
D1 FLEXIBLE PENETRATION DETAIL
N.T.S.



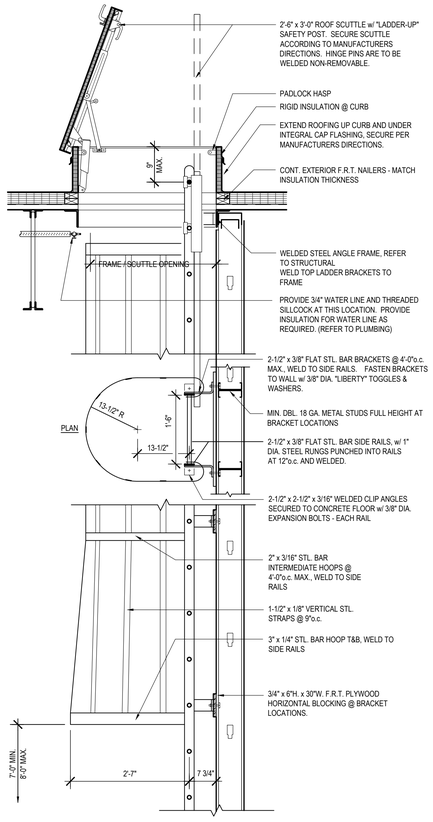
D2 PIPE PENETRATION DETAIL
N.T.S.



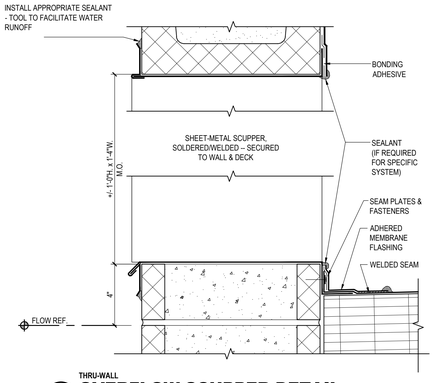
D3 HVAC CURB DETAIL
N.T.S.



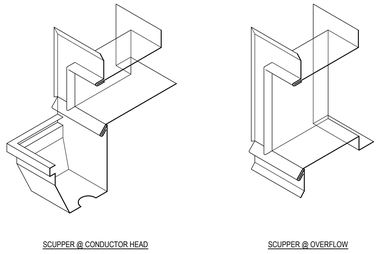
D4 HEAVY DUTY DOWNSPOUT GUARD DETAIL
1"=1'-0"



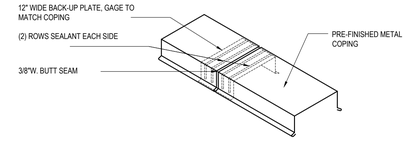
D9 ROOF HATCH & LADDER DETAIL
SCALE: 3/4"=1'-0"



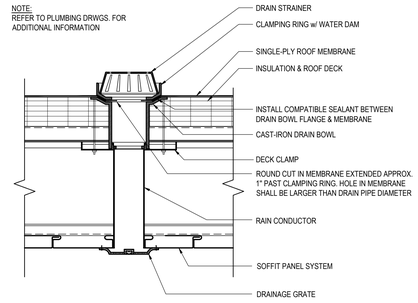
D5 THRU-WALL OVERFLOW SCUPPER DETAIL
3"=1'-0" HIGH R-VALUE



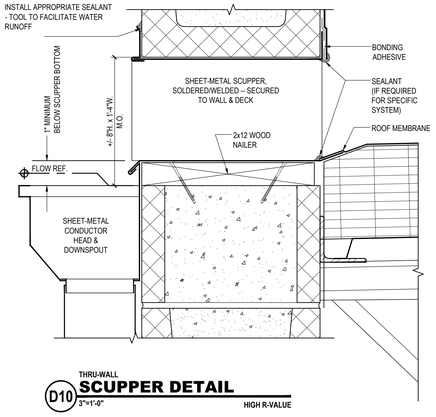
D6 THRU-WALL SCUPPER ISOMETRIC DETAILS
3"=1'-0"



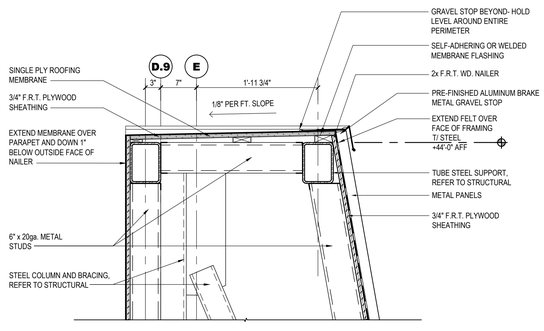
D7 CONCEALED COPING SEAM DETAIL
N.T.S.



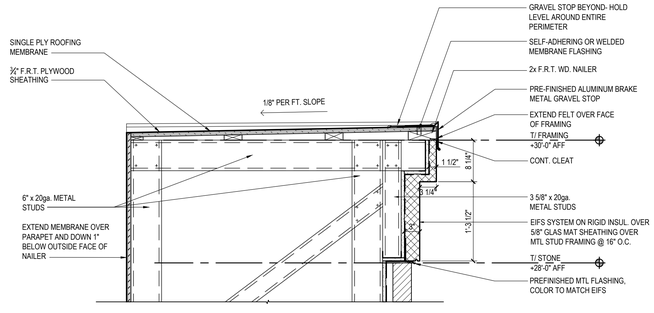
D8 CANOPY OVERFLOW DRAIN
NOT TO SCALE



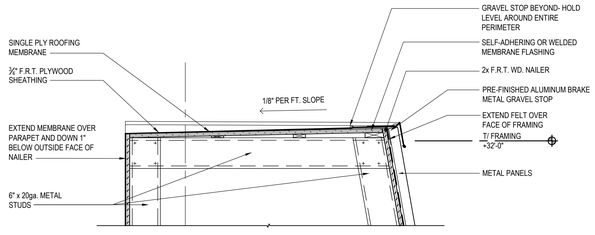
D10 THRU-WALL SCUPPER DETAIL
3"=1'-0" HIGH R-VALUE



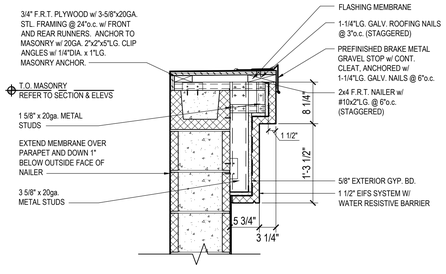
D11 DETAIL
1"=1'-0"



D12 DETAIL
1"=1'-0"



D13 DETAIL
1"=1'-0"



D14 DETAIL
1"=1'-0"

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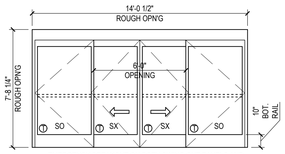
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
ROOF DETAILS

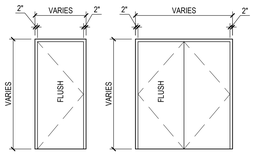
SHEET NUMBER:
A4.1



EMERGENCY BREAKOUT ON BOTH SWING OUT PANELS AND SLIDING DOORS. TYP. ON DOORS #100a AND #100b.

(A) ALUMINUM SLIDING DOORS

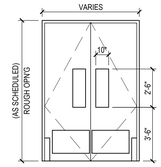
NOTES
1. EXTERIOR AND INTERIOR DOOR UNITS TO BE CHARCOAL ALUMINUM TO MATCH CURTAIN WALL FRAMING.
2. INTERIOR DOOR UNIT TO HAVE 1/4" TEMPERED GLAZING.
3. EXTERIOR DOOR UNIT TO HAVE 1 5/16" INSULATED/LAMINATED GLAZING.



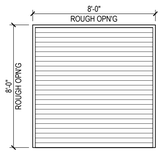
INTERIOR DOOR FACES TO BE MIN. 16 GA. STL.

(C) H.M. DOOR & FRAME

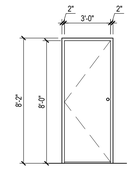
NOTES
1. SEE HEAD DETAIL FOR FRAME SIZE.
2. DOORS THAT REQUIRE DOOR SPYS: MOUNT (1) AT 43" AFF MAX (TO BOTTOM OF GLASS) AND (1) AT 60" AFF; LOWER EXIT DEVICE TO CLEAR SPY; REFER TO DOOR HARDWARE SCHEDULE.



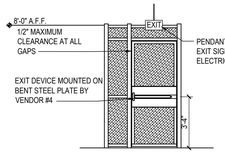
(E) DUAL-ACTING DOORS



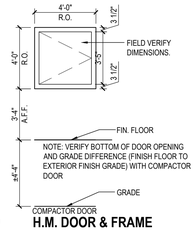
(F) COILING SERVICE DOOR



(G) WOOD DOOR



(L) GALV. CHAIN LINK GATE

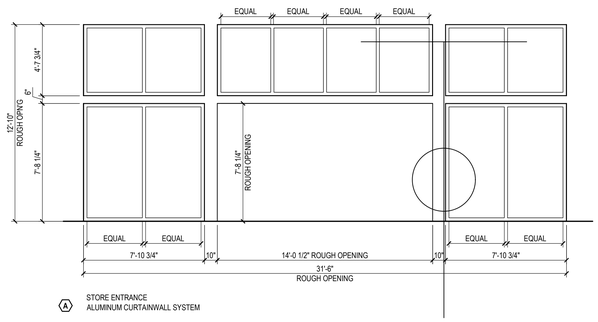


(K) H.M. DOOR & FRAME

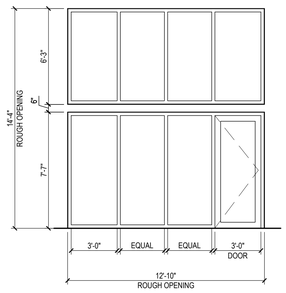
(T) = TEMPERED

(1) DOOR TYPES

SCALE 1/4" = 1'-0"



(A) STORE ENTRANCE
ALUMINUM CURTAINWALL SYSTEM

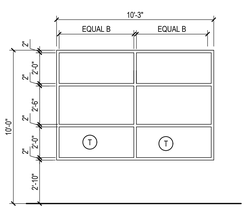


(B) DISPLAY WINDOW
ALUMINUM CURTAINWALL SYSTEM

(2) EXTERIOR GLAZING UNITS - IMPACT GLAZING PANELS

SCALE 1/4" = 1'-0"

NOTE: CURTAIN WALL COLOR: CHARCOAL
NOTE: ALL STOREFRONT SYSTEMS BY VENDOR # 10 & VENDOR #20; REFER TO DETAIL 8/A5.1 FOR FRAMING DETAILS.
NOTE: 1-5/16" INSULATED & LAMINATED GLAZING



(C) FIXED STOREFRONT SYSTEM

1. 1/4" GLAZING
2. TRIFAB 450.
3. 3/4" FRONT FACING GLAZED UNIT
4. GLAZING CLEAR ANODIZED STOREFRONT SYSTEM

(3) INTERIOR GLAZING UNITS

SCALE 1/4" = 1'-0"

DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR LOCATION	DOOR TYPE	DOOR MATERIAL	DOOR SIZE	JAMB MAT'L	JAMB TYPE	HEAD MAT'L	HEAD TYPE	HARDWARE SET NO.	RATING	MAX U-FACTOR	REMARKS	INTERIOR SIGNAGE (REFER TO ADA.0 FOR MOUNTING REQUIREMENTS) - (SEE NOTE 21.)	NO.
100a	VESTIBULE	A	ALUM./GLASS	14'-0" x 7'-0" (PACKAGE)	ALUM	J-5	ALUM	H-5	1.0	---	.77	INFRARED SENSOR OPERATED AUTOMATIC SWING OR DOUBLE SLIDERS - SEE NOTE #4, #15, #16, #18, #23	"EXIT"	100a
103	GOLF SERVICES	C	HOLLOW METAL	3'-0" x 7'-0" x 1 3/4"	H. MTL.	J-3	H. MTL.	H-3	4.0	---	---	---	"GOLF SERVICES"	103
109a	CORRIDOR	---	---	4'-0" x 7'-0"	H. MTL.	J-6	H. MTL.	H-6	---	---	---	FRAMED OPENING	"RESTROOMS"	109a
109b	SALES FLOOR REAR EXIT	C	HOLLOW METAL	3'-0" x 7'-0"	H. MTL.	J-4	H. MTL.	H-4	3.0.WS	---	---	NOTES #2, #3, #5, #6 (4" HEAD)	"EXIT"	109b
110	WOMEN'S FITTING ROOM	G	WOOD	3'-0" x 8'-0" x 1 3/4"	H. MTL.	J-2	H. MTL.	H-2	15.2	---	---	NOTES #8, #14	"FITTING ROOM" w/ ♿	110
111	MEN'S FITTING ROOM	G	WOOD	3'-0" x 8'-0" x 1 3/4"	H. MTL.	J-2	H. MTL.	H-2	15.2	---	---	NOTES #8, #14	"FITTING ROOM" w/ ♿	111
113	WOMEN'S TOILET ROOM	C	HOLLOW METAL	3'-0" x 7'-0" x 1 3/4"	H. MTL.	J-3	H. MTL.	H-3	5.1	---	---	NOTE #8	"WOMEN" w/ ♿	113
114	MEN'S TOILET ROOM	C	HOLLOW METAL	3'-0" x 7'-0" x 1 3/4"	H. MTL.	J-3	H. MTL.	H-3	5.1	---	---	NOTE #8	"MEN" w/ ♿	114
115	BREAKROOM	C	HOLLOW METAL	3'-0" x 7'-0" x 1 3/4"	KD	J-2	KD	H-2	9.0	---	---	---	"BREAKROOM"	115
116a	RECEIVING	F	ROLLING STEEL	8'-0" x 9'-0"		J-8	SEE SHEET A7.1		12.1			----		116a
116b	RECEIVING	C	HOLLOW METAL	3'-8" x 7'-0" x 1 3/4"	H. MTL.	J-4	H. MTL.	H-4	10.0.WS.SIM			NOTES #3, #5, #6 (4" HEAD)	"EXIT"	116b
116c	TRASH COMPACTOR	K	HOLLOW METAL	3'-5" x 3'-5"	H. MTL.	J-4 SIM.	H. MTL.	H-4 SIM.	11.0	1 1/2 HR.		NOTES #9, #11		116c
116d	STOCKROOM	E	HIGH IMPACT w/ VP	(2) 3'-0" x 9'-0" x 1 3/4"	H. MTL.	J-6	H. MTL.	H-6	18.1	---	---	POLYCORE, NOTE #1		116d
117	MANAGERS OFFICE	C	HOLLOW METAL	3'-0" x 7'-0" x 1 3/4"	KD	J-3	KD	H-3	9.1	---	---	---	"MANAGERS OFFICE"	117
118	AV/DATA	C	HOLLOW METAL	3'-0" x 7'-0" x 1 3/4"	KD	J-2	KD	H-2	9.0	---	---	---	"AV ROOM"	118
119	STOCKROOM	C	HOLLOW METAL	3'-0" x 7'-0" x 1 3/4"	H. MTL.	J-2	H. MTL.	H-2	9.0	---	---	---		119
123	DISPLAY	--	ALUM./GLASS	3'-0" x 7'-7"		SEE SHEET A7.0a			13.0			HARDWARE BY STOREFRONT MANUF.		123
124	DISPLAY	--	ALUM./GLASS	3'-0" x 7'-7"		SEE SHEET A7.0a			13.0			HARDWARE BY STOREFRONT MANUF.		124
130	ELECTRIC ROOM	L	CHAIN LINK	3'-0" x 8'-0"	---	---	---	---	17.0	---	---	NOTES #19		130
RH1	ROOF HATCH	---	STEEL	SEE SHEET A4.0 & A4.1	---	---	---	---	12.2	---	---	---		RH1

DOOR NOTES: ALL DOOR & HARDWARE BY VENDOR #4 UNLESS NOTED

1. DOOR TO BE PROVIDED WITH 180° SWING HARDWARE AND "TEARDROP" IMPACT BUMPERS (TYP. BOTH SIDES OF DOORS). ALL DOOR HARDWARE BY DOOR MFGR.
2. DOOR TO HAVE ELECTRONIC DELAYED EGRESS PANIC DEVICE AS ALLOWED PER CODE (IBC SECTION 1008.1.8.6). DEVICE TO BE HARDWIRED AND TIED INTO FIRE ALARM SYSTEM. DOOR TO HAVE 15 SECOND DELAY. POST SIGNAGE AS REQUIRED STATING THUS: "PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS."
3. DOOR INDICATED AS EXIT DOOR, PROVIDE ALL NECESSARY PANIC HARDWARE & ALARMED EXIT UNITS (AS PER SPECIFICATIONS)
4. AUTOMATIC SLIDE DOOR MFGR. TO PROVIDE ALUMINUM THRESHOLD ADA APPROVED WITH SLIDE DOOR ASSEMBLY. DOOR CONTRACTOR TO INSTALL.
5. METAL THRESHOLDS FOR PERIMETER WALL EXIT DOORS SHALL BE ALUMINUM. WEATHER RESISTANT, AND A.D.A. COMPLIANT (AS PER SPECIFICATIONS)
6. INSULATED DOOR w/ PERIMETER WEATHER STRIP. (AS PER SPECIFICATIONS)
7. G.C. TO ADJUST CLOSERS ON ALL INTERIOR DOORS TO A MAXIMUM OPENING FORCE OF 5 LBS. ADJUST CLOSING SPEED SO THAT THE TIME FOR THE DOOR TO MOVE FROM 90° TO 12° FROM THE LATCH IS NOT LESS THAN 5 SECONDS.
8. UNDERCUT DOOR BY 1 IN.
9. COORDINATE SIZE AND SPECIFICATIONS WITH COMPACTOR MANUFACTURER. DOOR TO HAVE 180° SWING AND MAGNETIC HOLD OPEN AS SPECIFIED.
10. HARDWARE SUPPLIER IS TO PROVIDE A PADLOCK FOR THE ROOF HATCH AND OVERHEAD DOOR. COORDINATE KEYING WITH DICKS SPORTING GOODS.
11. FRAME LOCATION FLUSH WITH INSIDE WALL (COMPACTOR DOOR HAS 180° SWING)
12. FINAL KEYING BY DICK'S SPORTING GOODS.
13. ALL HARDWARE SHALL BE ADA ACCESSIBLE.
14. PROVIDE LOCK SETS AT ALL FITTING ROOM DOORS. (AS PER SPECIFICATIONS)
15. DOOR IS INFRARED SENSOR OPERATED AUTOMATIC SWING OR DOUBLE SLIDERS SEE NOTE # 4.
16. DOOR ROUGH OPENING INCLUDES AUTOMATIC OPERATORS. ACTUAL DOOR HEIGHT IS 7'-0" HIGH.
17. OPEN
18. DOOR HARDWARE PROVIDED BY VENDOR #20. FUNCTION: TO BE KEY-LOCKED EXTERIOR, ALWAYS UNLOCKED INTERIOR.
19. DOOR REQUIRED TO HAVE PANIC HARDWARE AS REQUIRED BY NEC CODE. REFER TO SPECIFICATIONS.
20. DOOR HARDWARE PROVIDED BY VENDOR #10. FUNCTION: TO BE KEY-LOCKED EXTERIOR, ALWAYS UNLOCKED INTERIOR
21. REFER TO SPECIFICATION SECTION 10440 FOR INTERIOR SIGNAGE PACKAGE VENDORS & ADDITIONAL SIGNAGE REQUIREMENTS.
22. OPEN
23. THE EXTERIOR AUTOMATIC DOOR SLIDER TO HAVE A LOCKGUARD AND ARMOURED STRIKE - PROVIDED & INSTALLED BY VENDOR #20.
24. ADD ELECTROMAGNETIC HOLDERS
25. SMOKE SEAL PACKAGE (JAMBS & HEAD) AND BOTTOM SWEEP.
26. DEMARCATE ROOM ON EXTERIOR OF DOOR WITH PAINTED 2" HIGH LETTERS IN CONTRASTING COLOR: "FIRE RISER ROOM"

INTERIOR FINISH SCHEDULE

	KEY	MATERIAL	DESCRIPTION
FLOORING	C-2	TURF FIELD (MEDIUM PILE HEIGHT) - PUTTING/HITTING BAYS/ FOOTWEAR	SOUTHWEST GREENS; 106SW - TURF GREEN
	C-3	TURF FRINGE (HIGHEST PILE HEIGHT) - PUTTING	SOUTHWEST GREENS; GB-004 - TURF GREEN
	C-70	TURF FIELD (LOWEST PILE HEIGHT) - HITTING BAYS	SOUTHWEST GREENS; GB-007 - 301 PINE GREEN
	C-300	CARPET INSET - SALES PADS	PATCRAFT HEIRLOOM TWEED I0549 COLOR CHARCOAL FRINGE CARPET TILE
	C-301	AREA RUG - SERVICE LOUNGE	TBD
	F-3	ENTRANCE FLOORING - VESTIBULE	CS GROUP; DESIGNSTEP BR-POWERPOINT TILE - CASTLE GRAY
	SF-6	WORKSHOP FLOORING	CONSTRUCTION SPECIALTIES; ANTI-FATIGUE MAT, MARBLE SOFT, COLOR: GRAY
PAINT	PT-107	PAINT - THROUGHOUT	SHERWIN WILLIAMS - GOLF GALAXY NAVY (CUSTOM)
	PT-300	PAINT - CEILING	SHERWIN WILLIAMS - 7004 SNOWBOUND - MATTE
	PT-301	PAINT - WALLS	SHERWIN WILLIAMS - 7672 KNITTING NEEDLES - SATIN
	PT-302	PAINT - DOOR TRIM	SHERWIN WILLIAMS - 7674 PEPPERCORN - SEMI GLOSS
	PT-303	PAINT - TBD	TBD
	PT-304	PAINT - CEILING	SHERWIN WILLIAMS - 7674 PEPPERCORN - MATTE
	P-10	PAINT - THROUGHOUT STOCKROOM WALLS AND EXIT CORRIDORS	SHERWIN WILLIAMS - SW7102 - WHITE FLOUR
PLASTIC LAMINATE	PL-300	DARK WOOD LAMINATE	ARBORITE; ARABICA MODERN CHERRY
	PL-301	LIGHT GRAY TEXTURED LAMINATE	ARBORITE; P407 MONOLITH
	PL-303	WHITE LAMINATE	PREFERRED: FORMICA COLORCORE2; 7223C-58 NEW WHITE ALTERNATE: PIONITE ANGEL WHITE SW826-SD
	PL-304	LIGHT GRAY SOLID LAMINATE	WILSONART; D381-60 FASHION GREY
	PL-21	OFFICES	WILSONART - D482-60 MATTE - BLACK FOREST GREEN
MISC.	FAB-300	VINYL UPHOLSTERY - PERFORMANCE CENTER SEATING	BURCH; GENESIS 1009314 HONEY
	LVT-300	WOOD-LOOK LVT	PARTERRE MADISON TEAK COLOR 11860
	SS-300	(ALT) SOLID SURFACE COUNTERTOP	CORIAN; SILVER BIRCH (TC)
	ML-1	THERMOFUSED MELAMINE PANEL	WHITE - PROVIDE WHITE PLASTIC CAPS OVER FASTENERS
BASE	AC-2	ACRYLIC	ACRYLITE - TYPE: ABRASION RESISTANT - COLOR: COLORLESS
	B-300	RESILIENT 4" WALL BASE	TARKETT; 4" VINYL COVE BASE - #20 CHARCOAL
TRANS. STRIPS	TS-300	VINYL FLOORING TO CARPET	TARKETT; #CTA-20-A TRANSITION MOULDING BETWEEN LVT AND CARPET - COLOR #20 CHARCOAL
	TS-301	VINYL FLOORING TO TURF	SCHLUTER SCHIENE AE 60 ANODIZED ALUMINUM TRANSITION STRIP
	TS-27	VINYL FLOORING TO TURF (CURVED)	SCHLUTER SCHIENE AE 60 ANODIZED ALUMINUM RADIUS TRANSITION STRIP
	TS-10	VINYL FLOORING TO PORCELAIN TILE	SCHLUTER SCHIENE ANODIZED ALUMINUM TRANSITION STRIP
	TS-5	VINYL FLOORING TO CONCRETE	JOHNSONITE - # RRS-80-C TILE REDUCER BETWEEN RESILIENT FLOORING AND CONCRETE (SEE A2.0) - COLOR #80 FAWN
TILE	T-300	FLOOR TILE - RESTROOMS	MILESTONE/FLORIUM; BASALTINE - DARK GREY, 12X24 TILE
	T-301	FLOOR BASE TILE - RESTROOMS	MILESTONE/FLORIUM; BASALTINE - DARK GREY, 6X12 COVE BASE
	T-302	WALL TRIM TILE - RESTROOMS	MILESTONE/FLORIUM; BASALTINE - DARK GREY, 3X12 BULLNOSE
	T-29	WALL TILE - RESTROOMS	MILESTONE/FLORIUM; BASALTINE - LIGHT GREY, 12X24 TILE
GROUT	G-300	GROUT - RESTROOM WALLS AND FLOORS	LATICRETE; COLOR: 78 STERLING SILVER - 1/8" MAX JOINT RECOMMENDED
	G-301	GROUT - RESTROOM FLOORS	LATICRETE; COLOR: 60 DUSTY GRAY - 1/8" MAX JOINT RECOMMENDED
WALL COVER	WC-300	ACCENT WALLCOVERING - OUTSIDE FITTING ROOMS	WOLF GORDON; BONAIRE - SILVER
	WC-301	ACCENT WALLCOVERING - INSIDE FITTING ROOMS	WOLF GORDON; BONAIRE - SILVERLIGHT
	C-5	ACOUSTICAL WALLCOVERING	KOROSEAL: #19-33 HYTEX ECO-A.R.T. BEDFORD - BLACK
METAL	MT-52	DARK GRAY POWDERCOAT	TIGER DRYLAC; P7 GLIMMER 49/80190
	MT-300	LIGHT GRAY POWDERCOAT	TIGER DRYLAC; TO MATCH RAL 7047 - SMOOTH / SEMI-GLOSS
	MT-301	PERFORATED METAL	3/16" DIAM HOLES, 1/4" OC STAGGERED; FINISH TO MATCH MT-303
	MT-302	ACCENT COLOR POWDERCOAT	TBD
	MT-303	WHITE POWDERCOAT	TIGER DRYLAC; TO MATCH RAL 9016 - SMOOTH / SEMI-GLOSS

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SOLON, OH 44139
www.foxdesigngroup.net

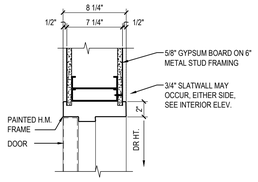
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

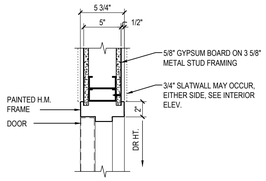
PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
SCHEDULES & NOTES

SHEET NUMBER:
A5.0



H-2 HEAD DETAIL
SCALE; 1 1/2" = 1'-0"



H-3 HEAD DETAIL
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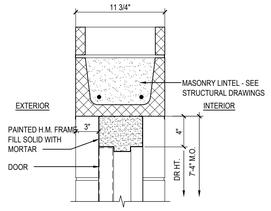
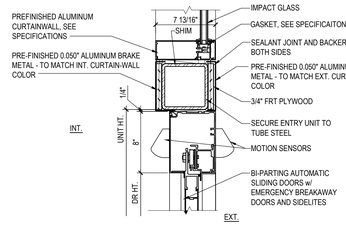
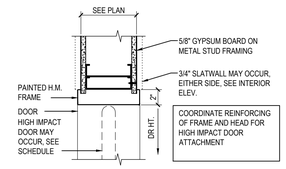


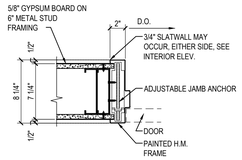
H-4 HEAD DETAIL
SCALE; 1 1/2" = 1'-0"



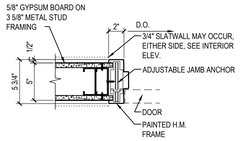
H-5 HEAD DETAIL
SCALE; 1 1/2" = 1'-0"



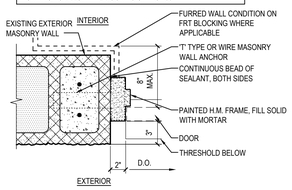
H-6 HEAD DETAIL
SCALE; 1 1/2" = 1'-0"



J-2 JAMB DETAIL
SCALE; 1 1/2" = 1'-0"



J-3 JAMB DETAIL
SCALE; 1 1/2" = 1'-0"



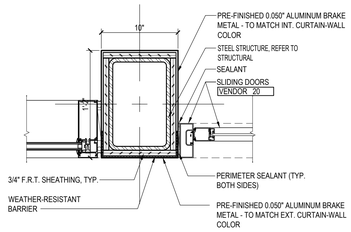
J-4 JAMB DETAIL
SCALE; 1 1/2" = 1'-0"

COMPACTOR DOOR NOTES:

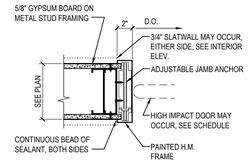
1. REVERSE DOOR SWING FOR COMPACTOR DOOR
2. 3 1/2" FRAME FOR COMPACTOR DOOR.
3. SET FRAME FLUSH WITH INSIDE OF MASONRY WALL
4. IF WALL IS FURRED OUT, CREATE A POCKET IN THE FURRING TO ALLOW THE DOOR TO SWING 180°

EXTERIOR DOOR NOTE:

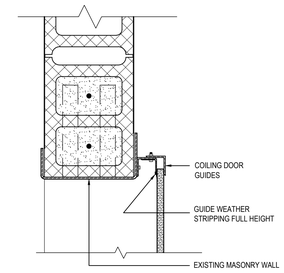
1. SET DOOR FRAME BACK FROM FACE OF MASONRY SO THAT INSIDE FACE OF DOOR IS NO MORE THAN 6" FROM INSIDE FACE OF WALL. (DOES NOT APPLY TO COMPACTOR)



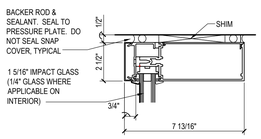
J-5 JAMB DETAIL
SCALE; 1 1/2" = 1'-0"



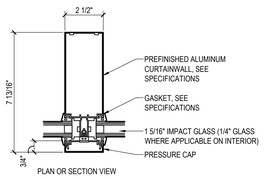
J-6 JAMB DETAIL
SCALE; 1 1/2" = 1'-0"



J-8 JAMB DETAIL
SCALE; 1 1/2" = 1'-0"

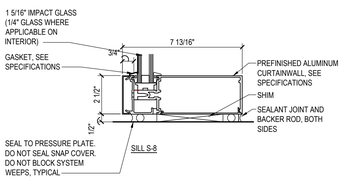


HEAD H-8

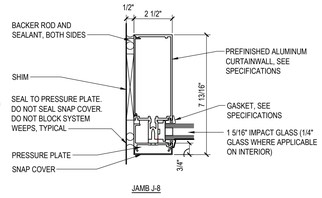


PLAN OR SECTION VIEW

INTERMEDIATE I-8

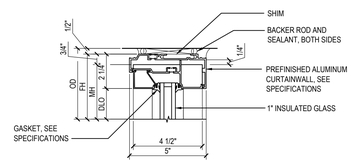


SILL S-8

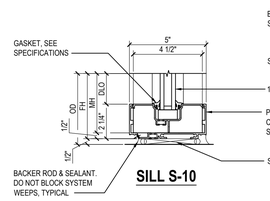


JAMB J-8

CURTAINWALL FRAMING
8 SYSTEM DETAILS - 1600
SCALE: 3" = 1'-0"



HEAD H-10



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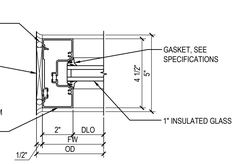
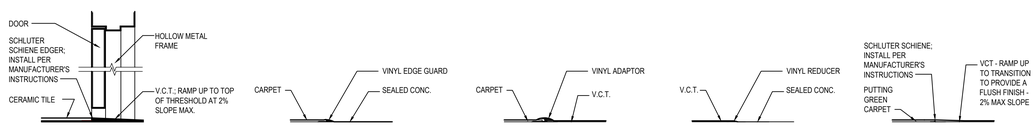


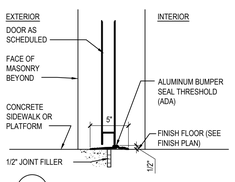
JAMB J-10

STOREFRONT FRAMING
10 SYSTEM DETAILS - TRIFAB 451T
SCALE: 3" = 1'-0"



TS-10 TS-3 TS-4 TS-5 TS-27

TRANSITION STRIPS
SCALE 1 1/2" = 1'-0"



T-1

THRESHOLD TYPES
SCALE 1 1/2" = 1'-0"

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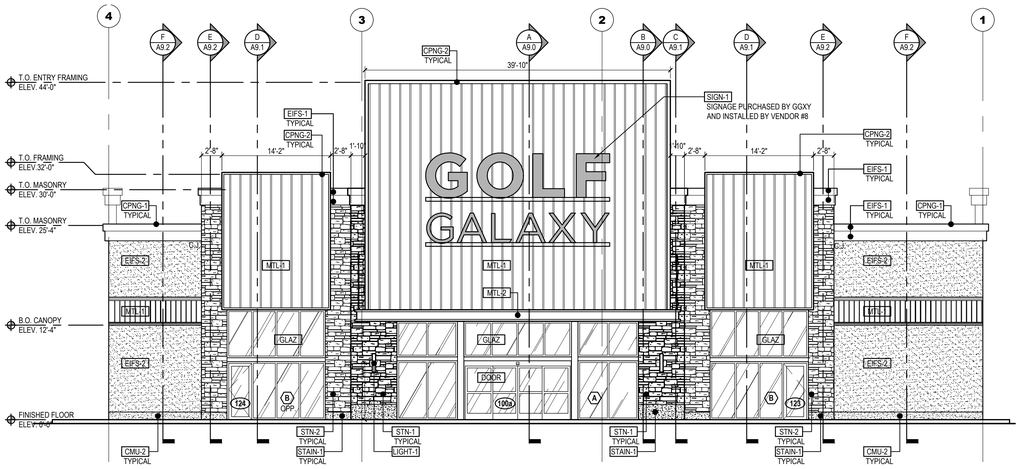
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

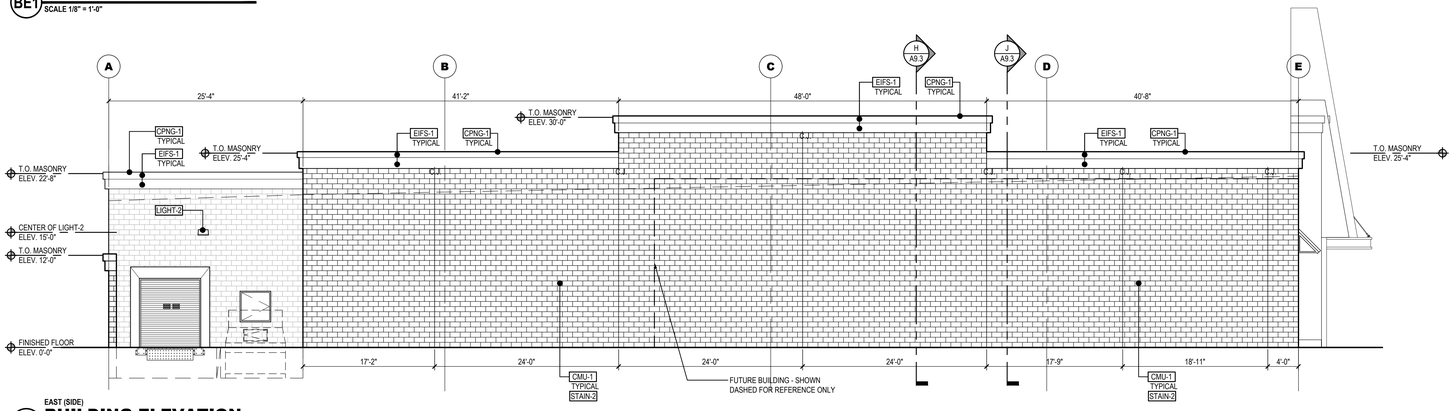
PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
DOOR & WINDOW DETAILS

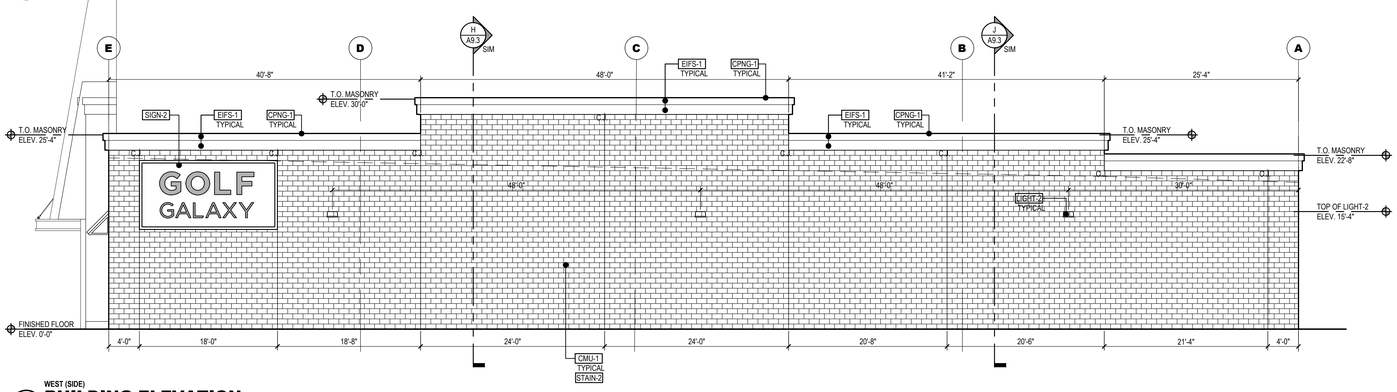
SHEET NUMBER:
A5.1



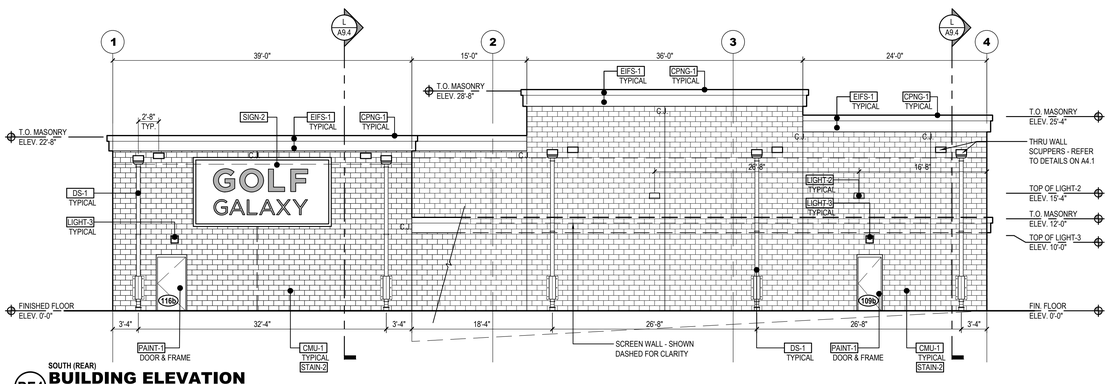
NORTH (FRONT)
BE1 BUILDING ELEVATION
SCALE 1/8" = 1'-0"



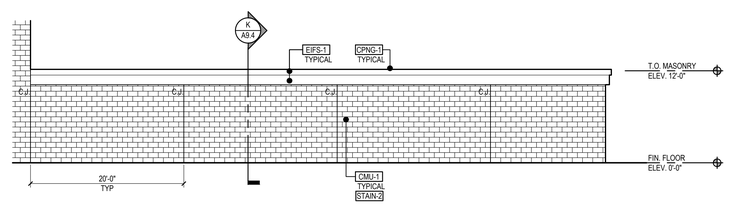
EAST (SIDE)
BE2 BUILDING ELEVATION
SCALE 1/8" = 1'-0"



WEST (SIDE)
BE3 BUILDING ELEVATION
SCALE 1/8" = 1'-0"



SOUTH (REAR)
BE4 BUILDING ELEVATION
SCALE 1/8" = 1'-0"



LOADING DOCK SCREEN WALL
BE5 BUILDING ELEVATION
SCALE 1/8" = 1'-0"

EXTERIOR MATERIALS

CMU-1	SMOOTH-FACED C.M.U. - 16"x8" EXPOSURE STANDARD GRAY DRYBLOCK
CMU-2	SMOOTH-FACED C.M.U. - 16"x8" EXPOSURE STANDARD GRAY DRYBLOCK, SEE SPEC. FINISH = POLYMER MODIFIED CEMENT PARGE, COLOR TO MATCH EIFS-1 SEE SPEC
CPNG-1	PRE-FINISHED METAL FASCIA W/ GRAVEL STOP - COLOR TO MATCH EIFS-1
CPNG-2	PRE-FINISHED METAL FASCIA W/ GRAVEL STOP - COLOR TO MATCH MTL-1
DS-1	PRE-FINISHED METAL DOWNSPOUT & COLLECTOR BOX COLOR: TO MATCH STAIN-2
DOOR	ALUMINUM AUTOMATIC SLIDING HURRICANE IMPACT RATED DOOR COLOR: KAWNEER CHARCOAL
EIFS-1	EXTERIOR INSULATION AND FINISH SYSTEM COLOR: DRYVIT #617A WINTER EVE
EIFS-2	DIRECT APPLIED SYNTHETIC STUCCO STYSTEM COLOR: DRYVIT #627A TWILIGHT GRAY
GLAZ	ALUMINUM CURTAIN-WALL HURRICANE IMPACT RATED SYSTEM, COLOR: KAWNEER CHARCOAL
LIGHT-1	EXTERIOR DECORATIVE LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
LIGHT-2	EXTERIOR SECURITY LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
LIGHT-3	EXTERIOR EMERGENCY LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
MTL-1	PAC-CLAD RIBBED METAL PANELS COLOR TO MATCH GOLF GALAXY "LOYAL BLUE"
MTL-2	ACM PANELS COLOR: WHITE
PAINT-1	EXTERIOR PAINT - COLOR: TO MATCH EIFS-2
SIGN-1	INDIVIDUAL LETTER SIGNAGE w/ INTERNALLY ILLUMINATED LETTERS, SUPPLIED AND INSTALLED BY VENDOR #8
SIGN-2	WALL MOUNTED INTERNALLY ILLUMINATED BOX SIGN, SUPPLIED AND INSTALLED BY VENDOR #8
STAIN-1	EXTERIOR STAIN - COLOR TO MATCH EIFS-1
STAIN-2	EXTERIOR STAIN - COLOR TO MATCH EIFS-2
STN-1	CAST STONE VENEER - ARRISCRAFT LAURIER COLOR: CHARCOAL
STN-2	CAST STONE VENEER - ARRISCRAFT LAURIER COLOR: IVORY WHITE

BOX SIGN
D1 DETAIL
SCALE 1/4" = 1'-0"

ALL GLASS DOORS AND WINDOWS AT GRADE ARE TO BE SECURED WITH XPANDA SECURITY GATES, MODEL GSD25H, GREY FINISH. GATES PROVIDED AND INSTALLED BY XPANDA SECURITY PRODUCTS, (800) 835-0214; G.C. TO PURCHASE & COORDINATE.

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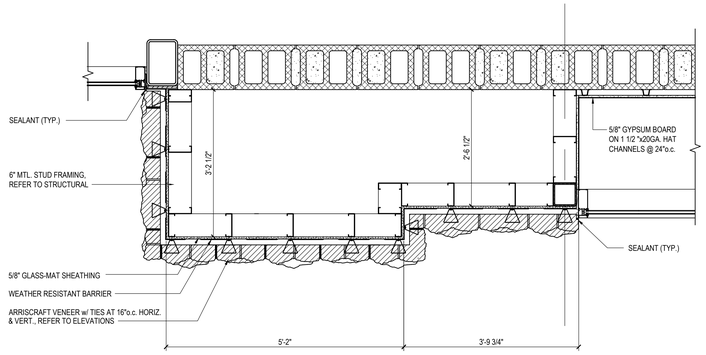
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

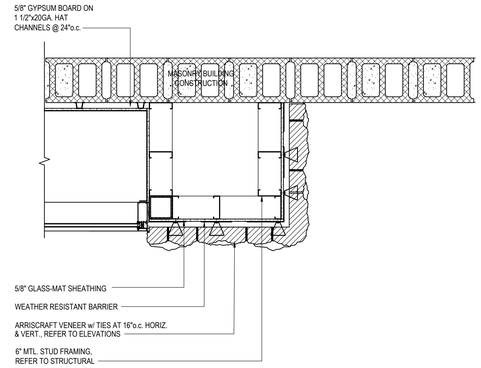
PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
BUILDING ELEVATIONS

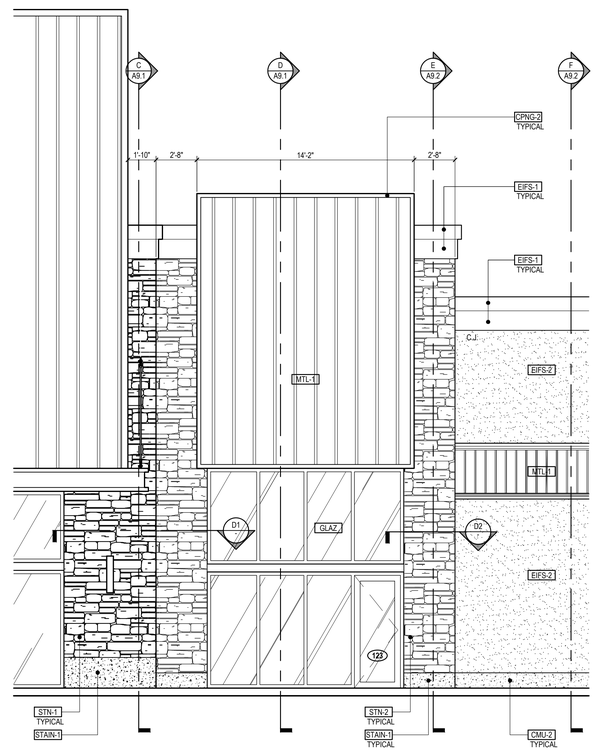
SHEET NUMBER:
A6.0



D1 PILASTER DETAIL
3/4"=1'-0"

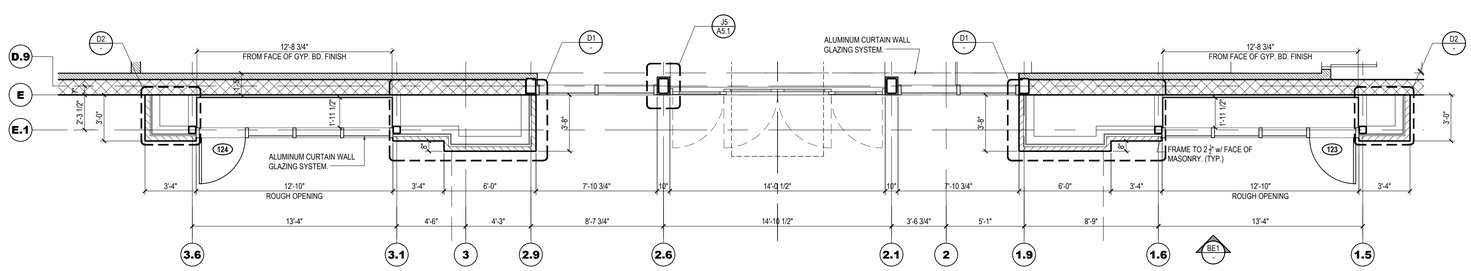


D2 PILASTER DETAIL
3/4"=1'-0"



STOREFRONT DISPLAYS
BE1 BUILDING SECTION
SCALE 1/4" = 1'-0"

NOTE: REFER TO WINDOW TYPES ON SHEET A5.0 FOR SIZES. (TYP.)



STOREFRONT DISPLAYS
FP1 ENLARGED FLOOR PLAN
1/4"=1'-0"

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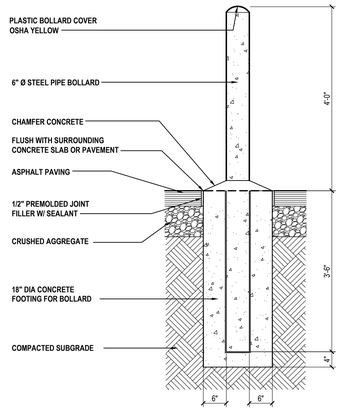
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
ENLARGED DISPLAY DETAILS

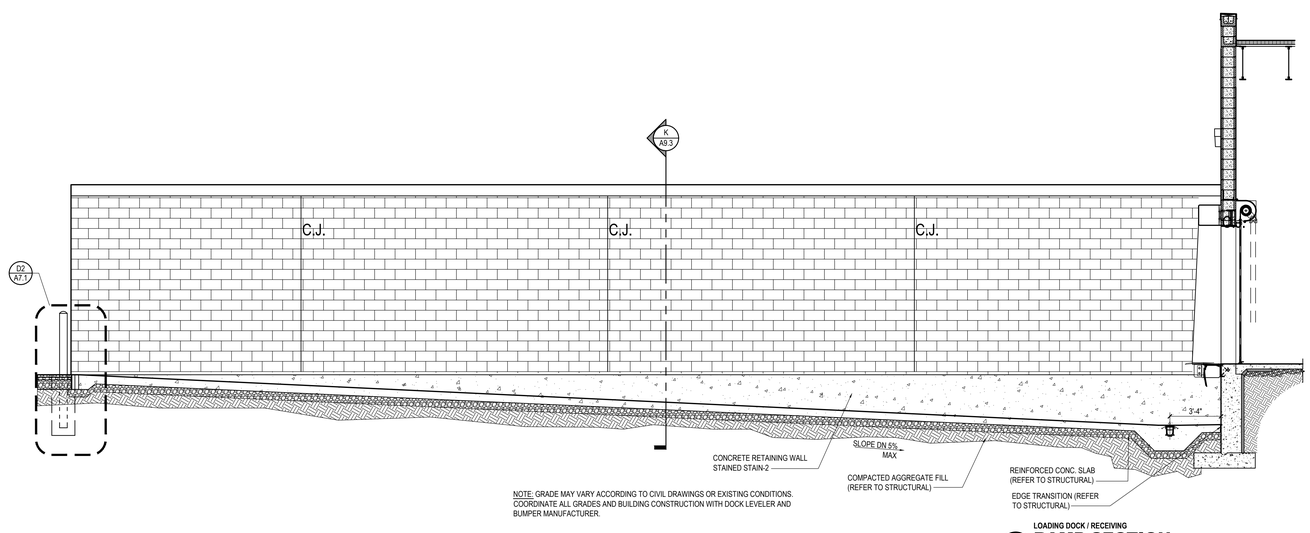
SHEET NUMBER:
A7.0



D2 BOLLARD DETAIL

LOADING DOCK & TRANSFORMER

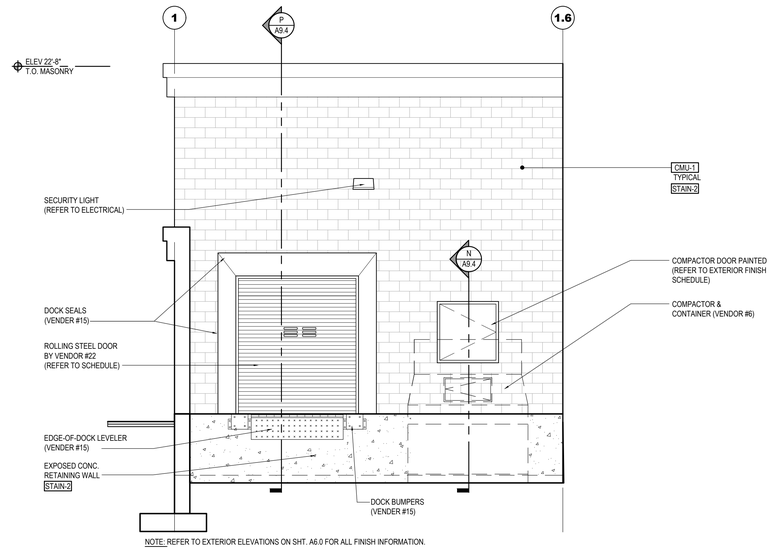
N.T.S.



LOADING DOCK / RECEIVING

WS1 RAMP SECTION

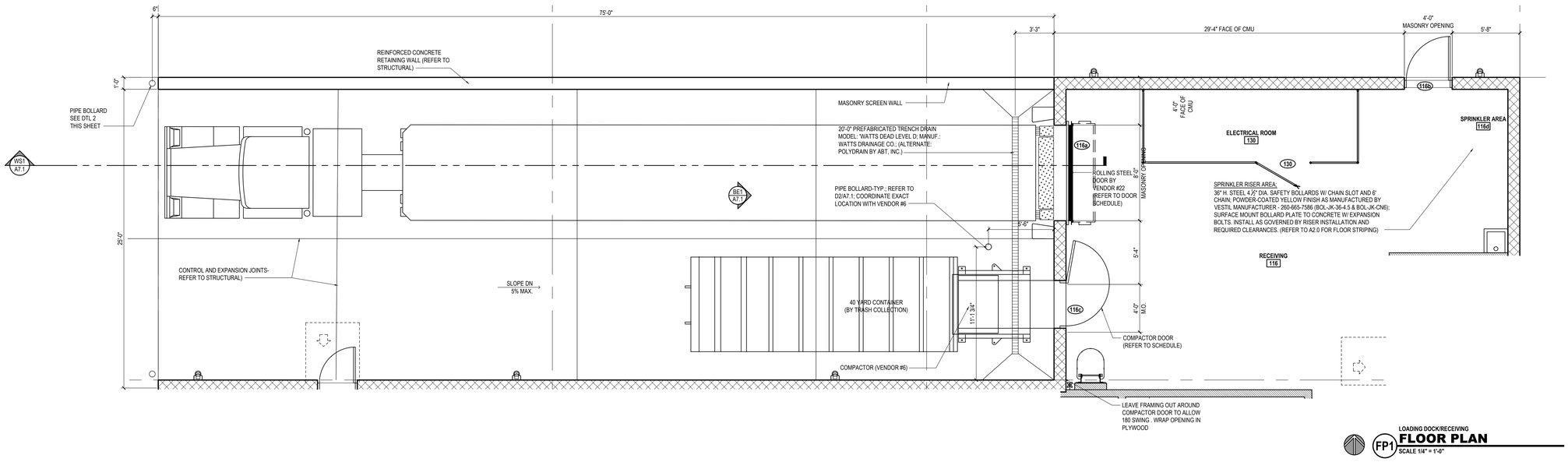
SCALE 1/4" = 1'-0"



LOADING DOCK / RECEIVING

BE1 BUILDING ELEVATION

SCALE 1/4" = 1'-0"



LOADING DOCK/RECEIVING

FP1 FLOOR PLAN

SCALE 1/4" = 1'-0"

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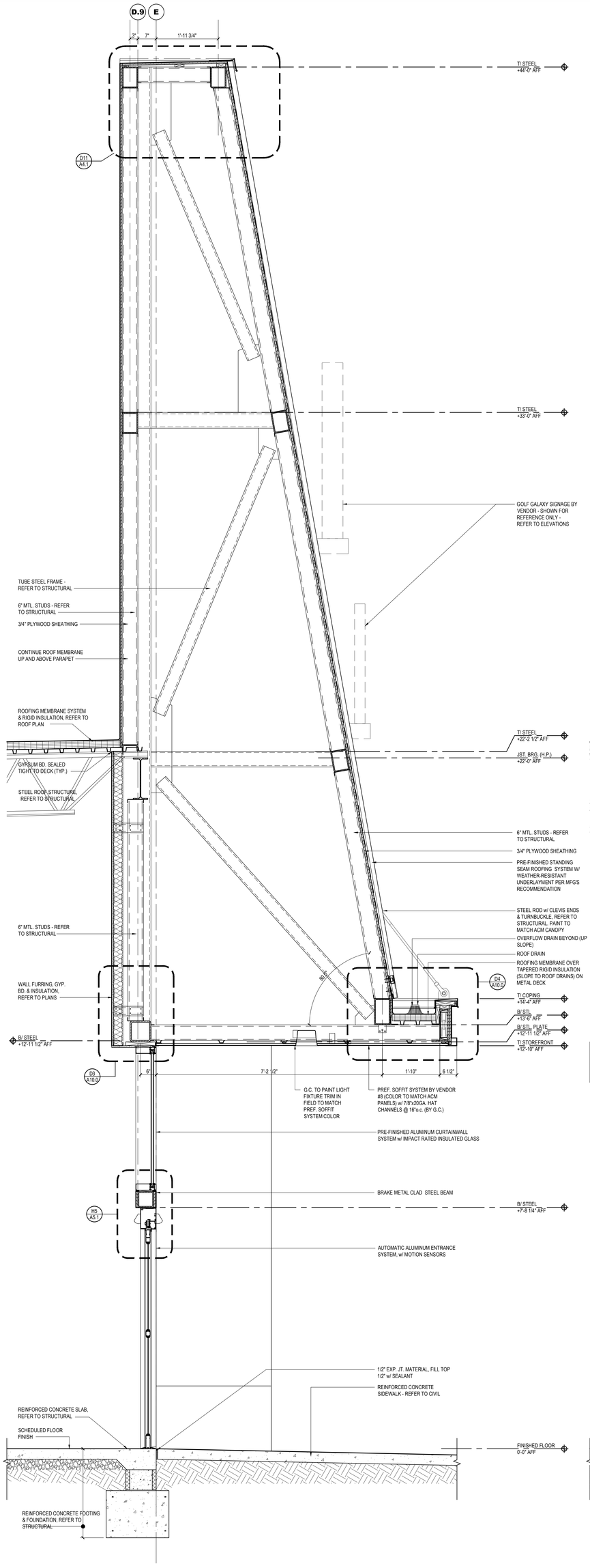
GOLF GALAXY

GATLIN PLAZA
PORT ST. LUCIE, FL

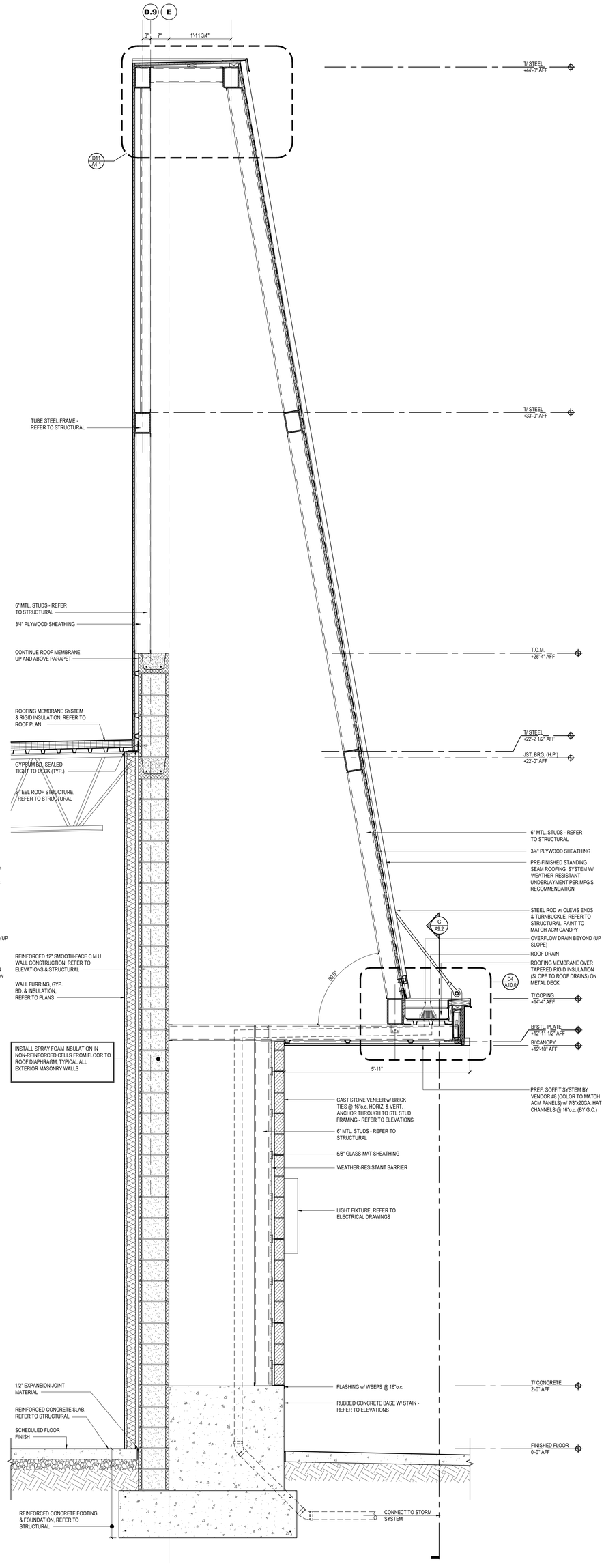
PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
RECEIVING PLAN, ELEVATION & DETAILS

SHEET NUMBER:
A7.1



A ENTRY CROSS SECTION
3/4" = 1'-0"



B ENTRY CROSS SECTION
3/4" = 1'-0"

PROJECT NUMBER:	01108
DATE	05-26-21
NO. ISSUE	BID-PERMIT
DRAWING:	STOREFRONT SECTIONS
SHEET NUMBER:	A9.0

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

GOLF GALAXY

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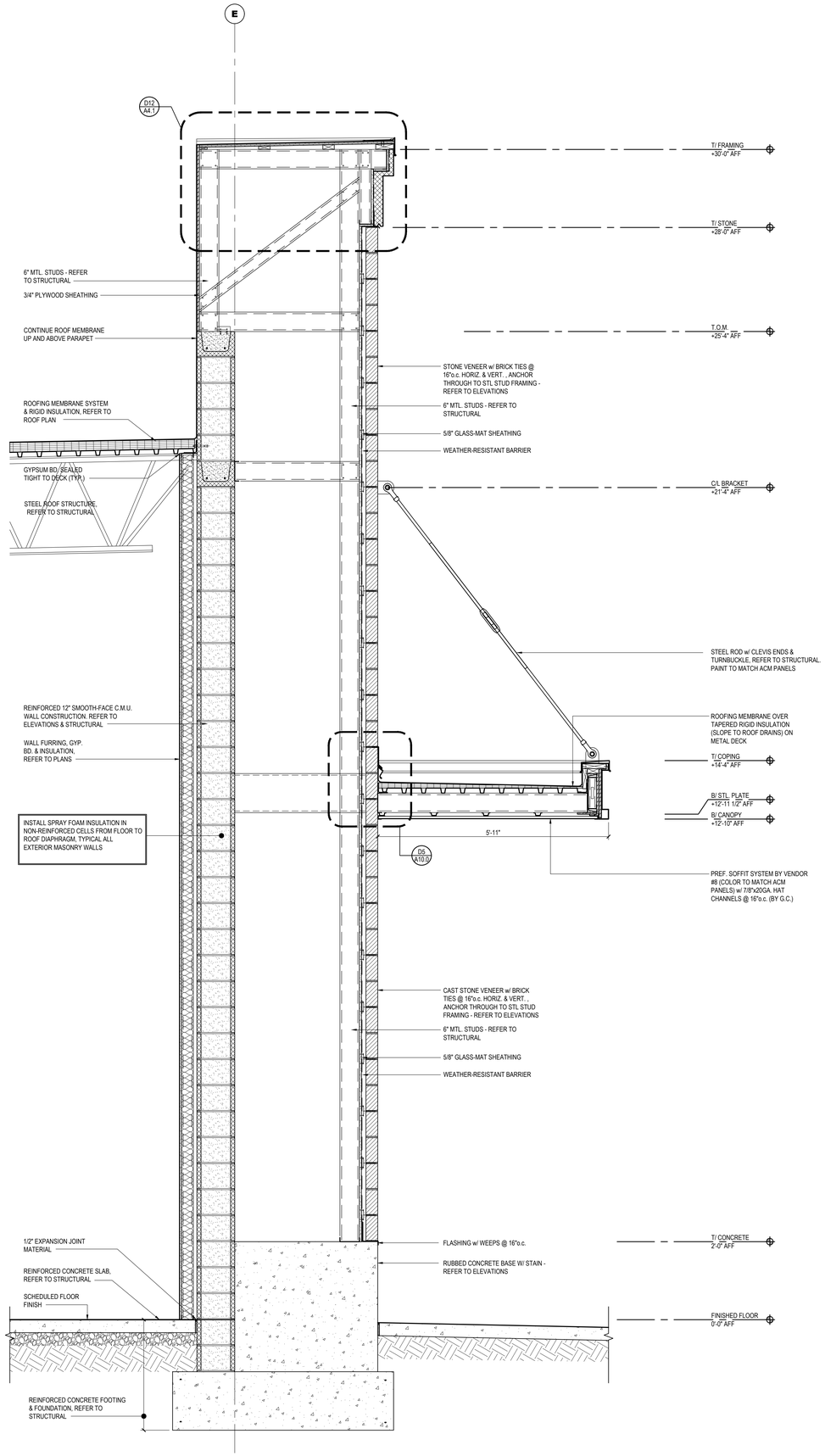
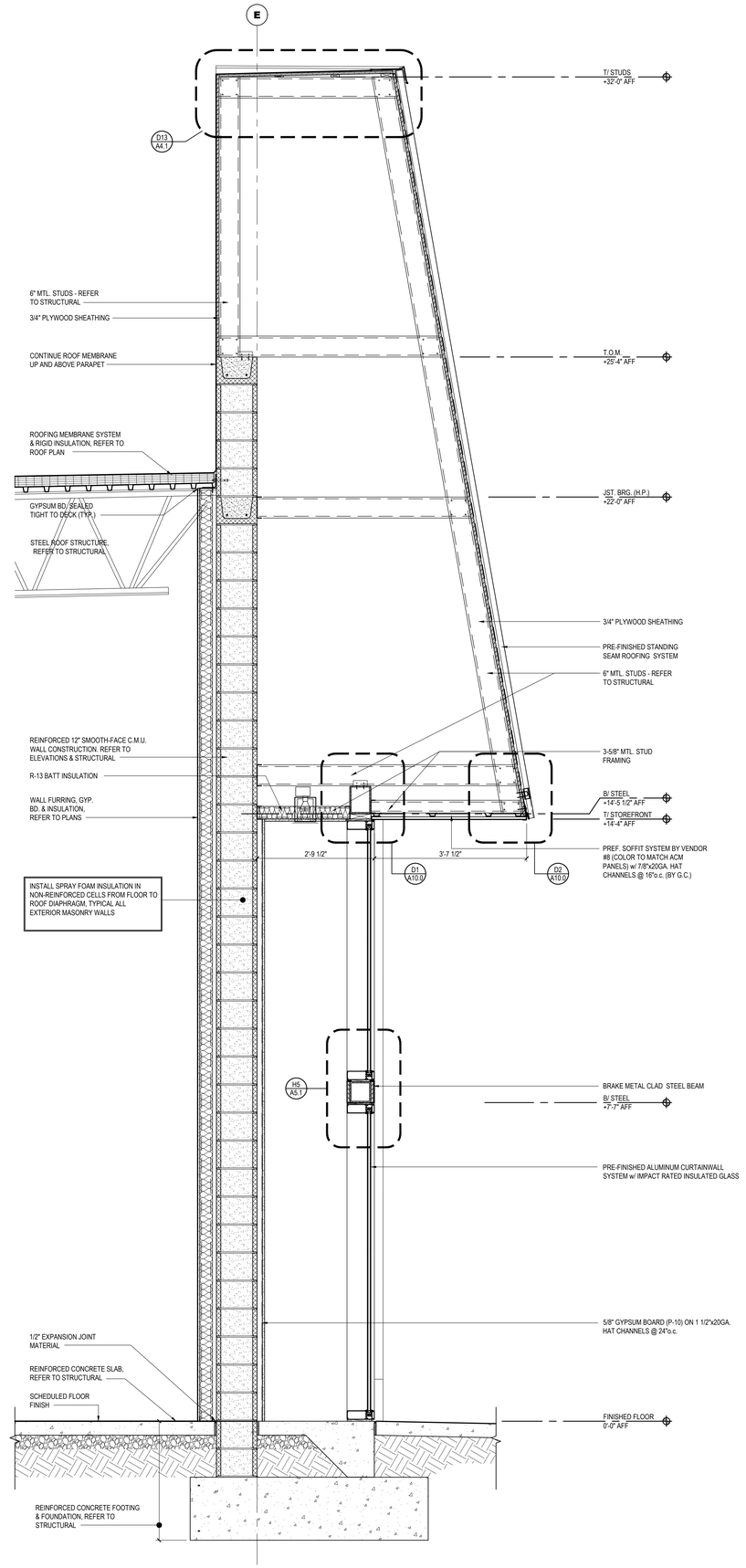


C PILASTER SECTION
3/4" = 1'-0"



D DIPLAY SECTION
3/4" = 1'-0"

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SOLON, OH 44139
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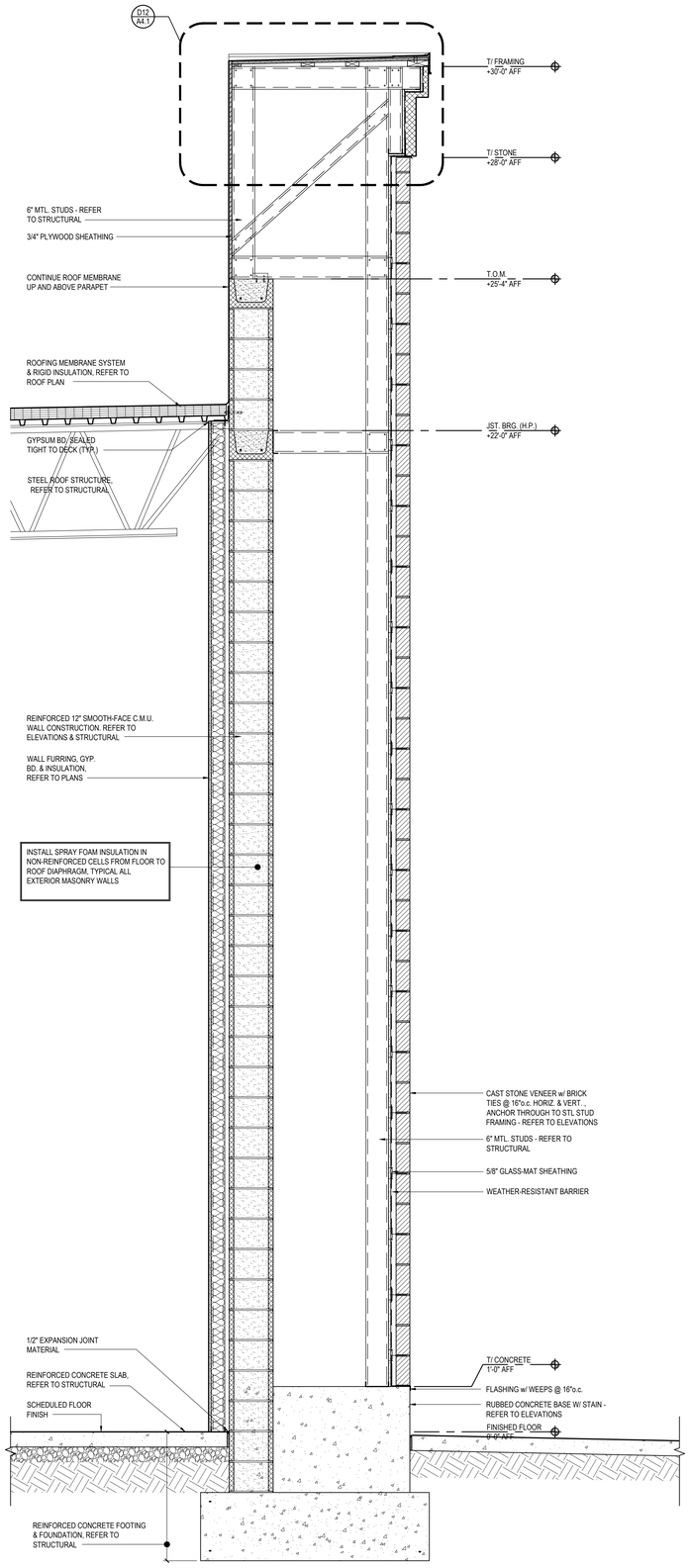
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

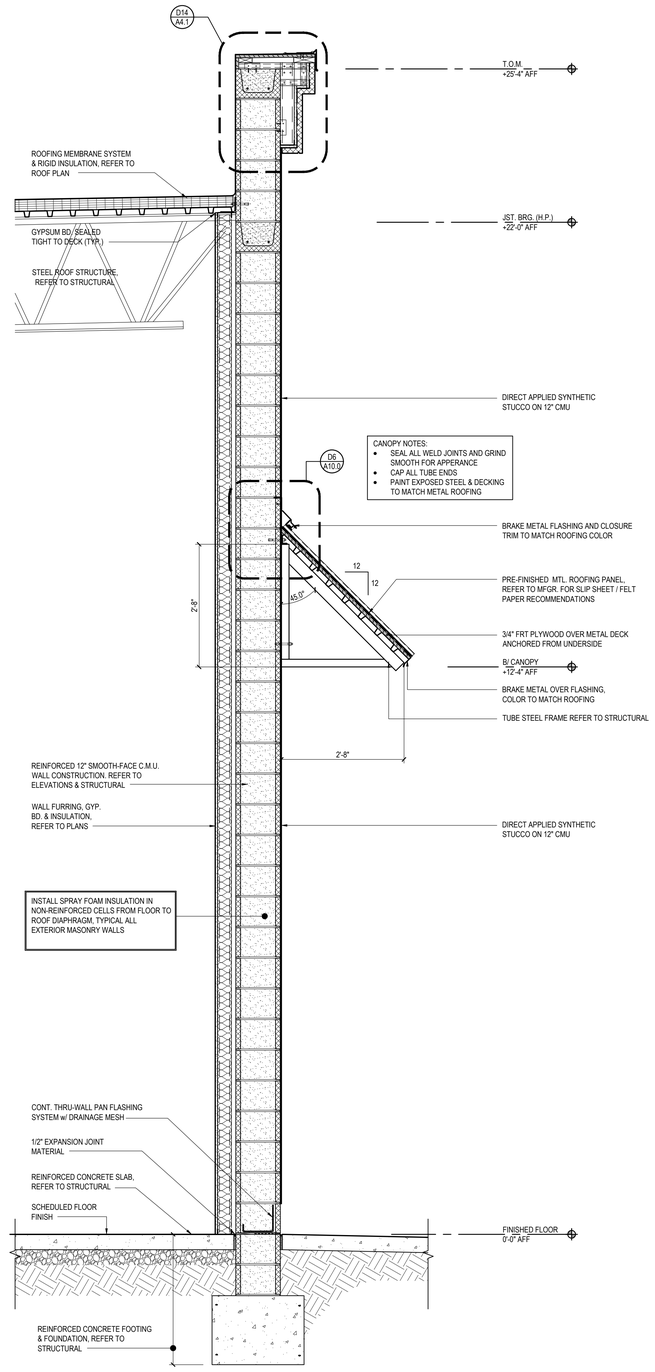
PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
STOREFRONT SECTION

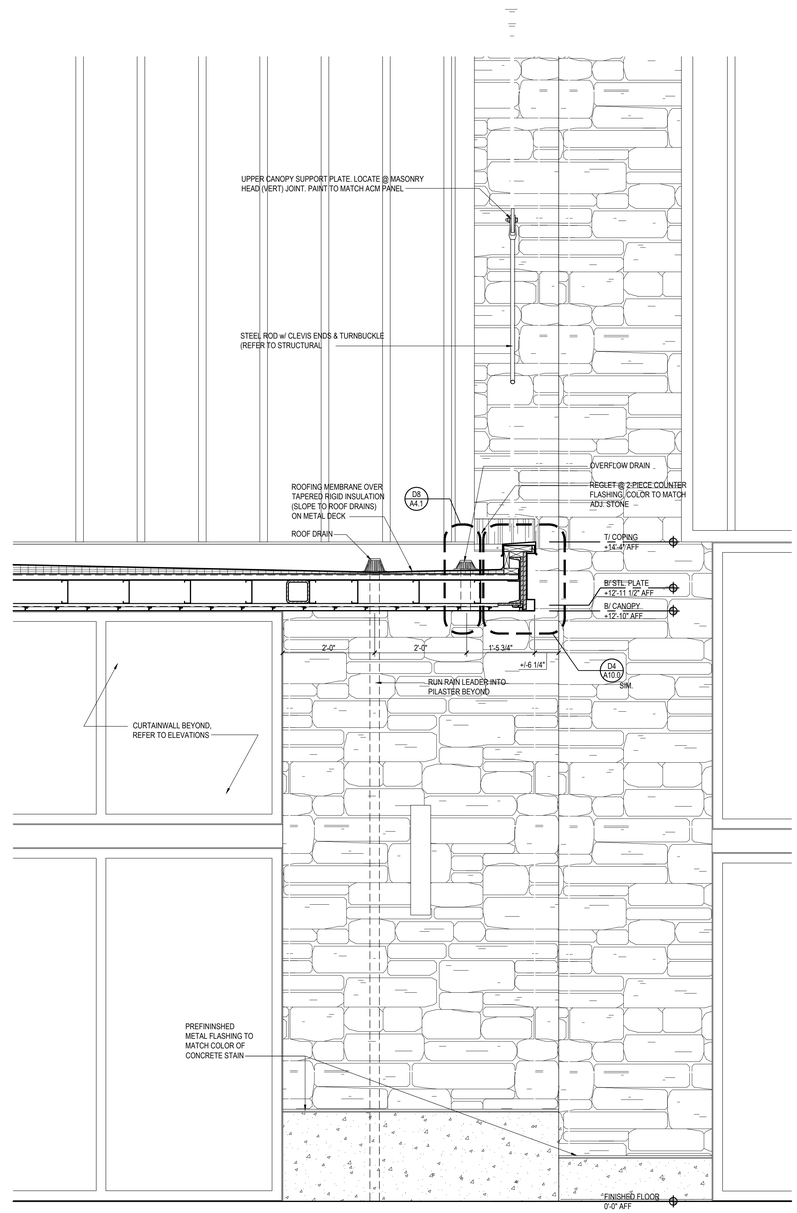
SHEET NUMBER:
A9.1



E PILASTER SECTION
3/4" = 1'-0"



F WALL SECTION
3/4" = 1'-0"



PARTIAL
G CANOPY SECTION
3/4" = 1'-0"

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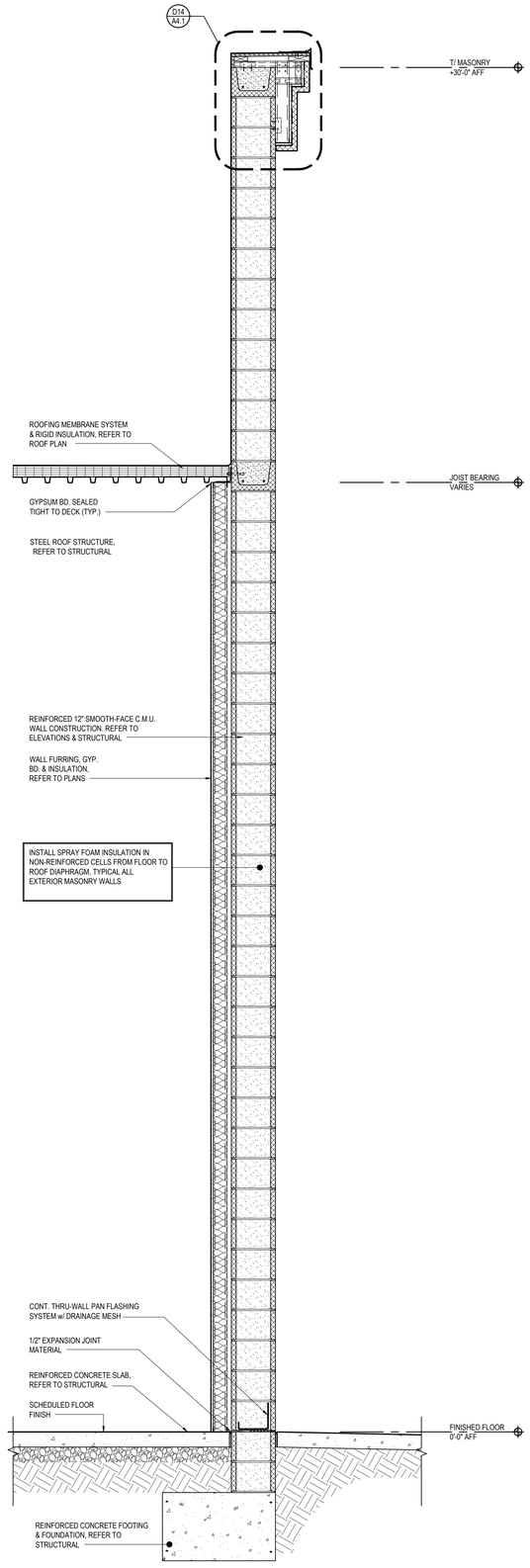
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

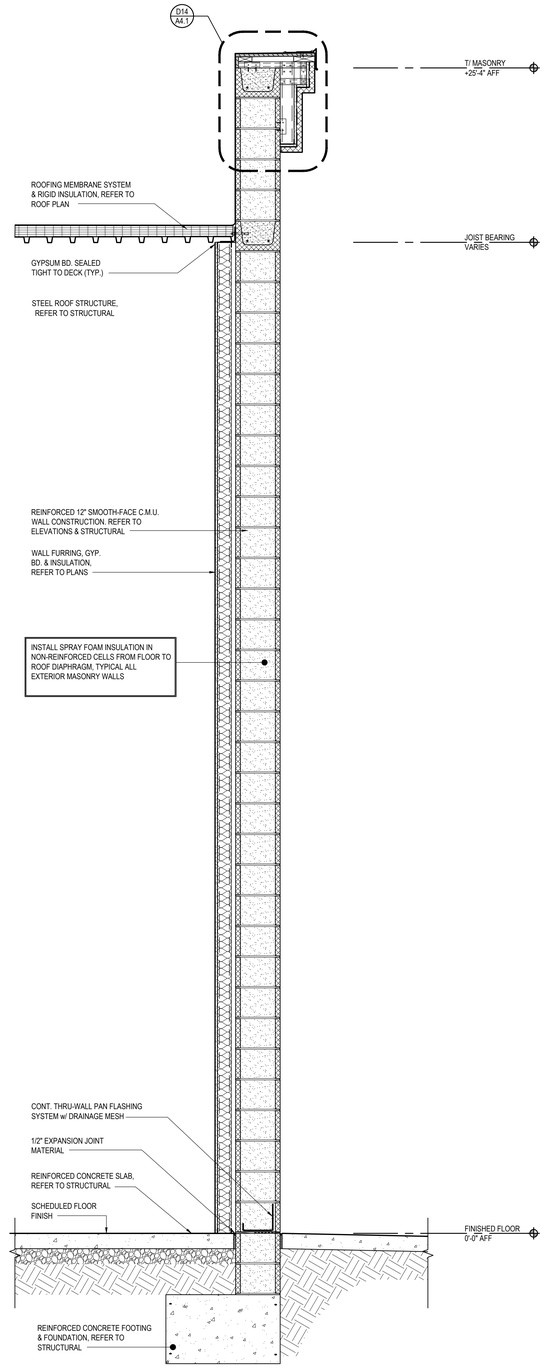
PROJECT NUMBER:	01168
NO. / ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
SIGN PILASTER SECTIONS

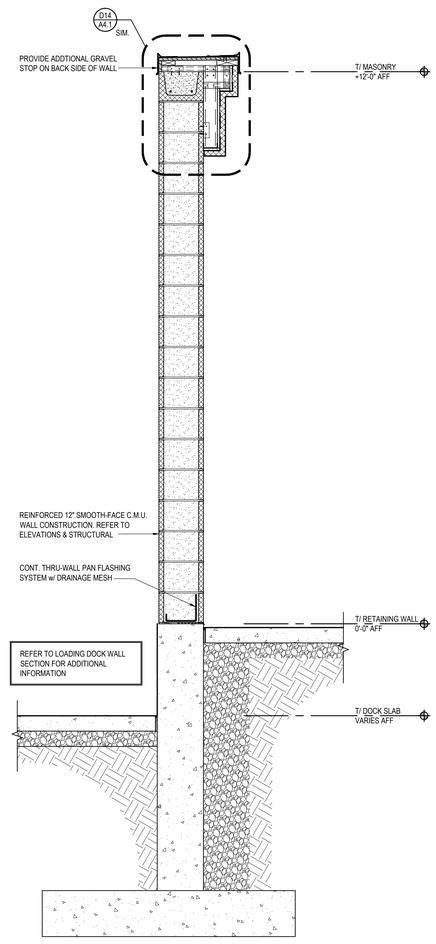
SHEET NUMBER:
A9.2



TYPICAL SIDE WALL
H WALL SECTION
3/4" = 1'-0"



TYPICAL SIDE WALL
J WALL SECTION
3/4" = 1'-0"



DOCK SCREEN WALL
K WALL SECTION
3/4" = 1'-0"

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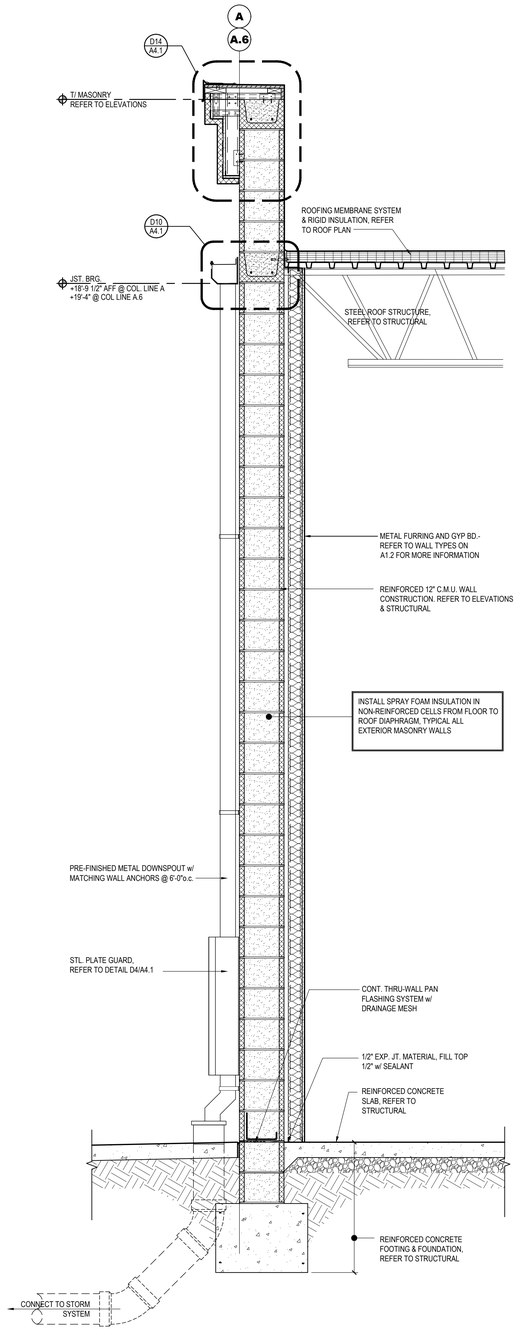
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

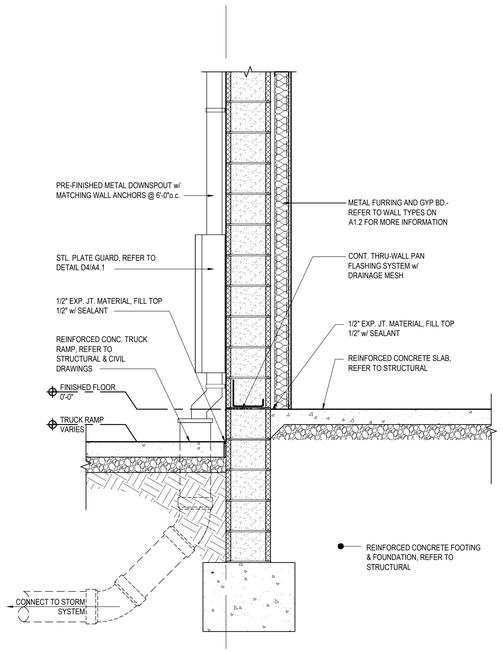
PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
WALL SECTIONS

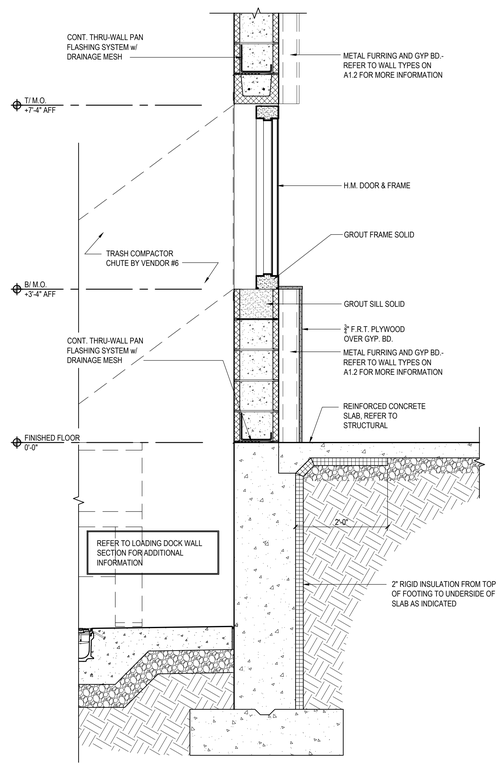
SHEET NUMBER:
A9.3



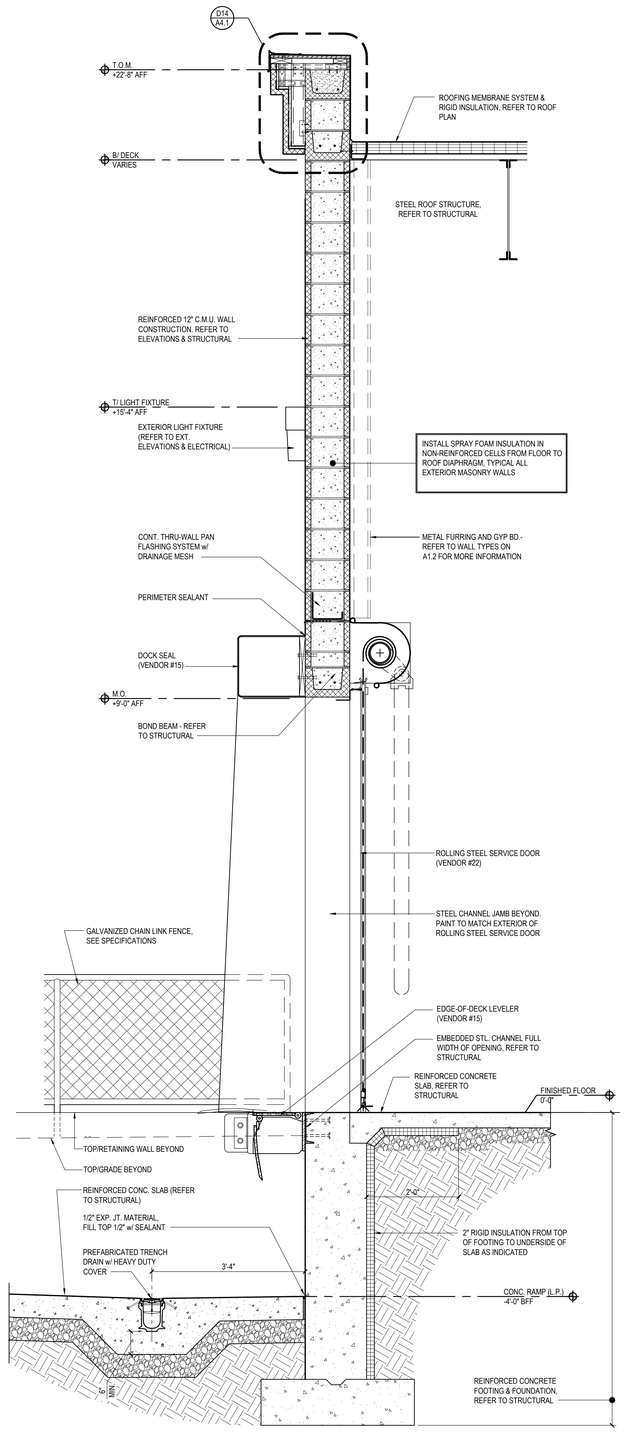
TYPICAL
L REAR WALL SECTION
3/4" = 1'-0"



PARTIAL
M REAR WALL SECTION @ DOCK
3/4" = 1'-0"



PARTIAL
N WALL SECTION @ LOADING DOCK
3/4" = 1'-0"



LOADING DOCK
P WALL SECTION
3/4" = 1'-0"

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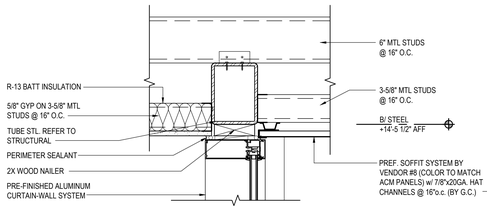
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

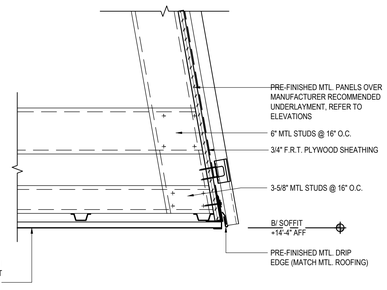
PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
WALL SECTIONS

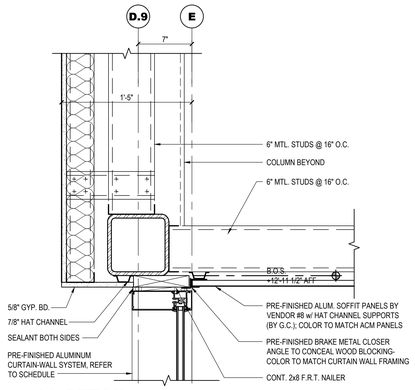
SHEET NUMBER:
A9.4



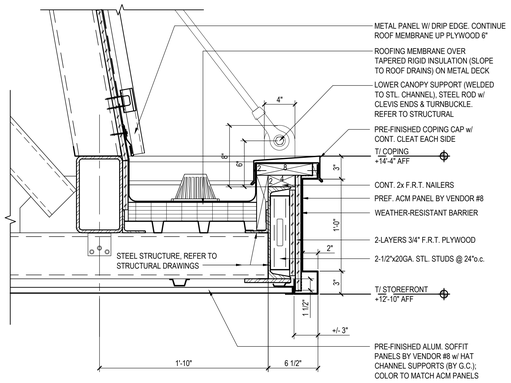
D1 DETAIL
1 1/2"=1'-0"



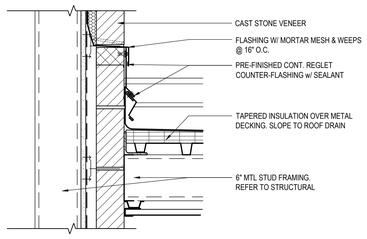
D2 DETAIL
1 1/2"=1'-0"



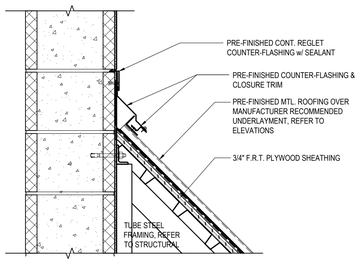
D3 DETAIL
1 1/2"=1'-0"



D4 DETAIL
1 1/2"=1'-0"



D5 DETAIL
1 1/2"=1'-0"



D6 DETAIL
1 1/2"=1'-0"

NOTE: REFER TO INTERIOR ELEVATIONS FOR ANY ADDITIONAL FINISHES REQUIRED. (TYP.)

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GOLF GALAXY

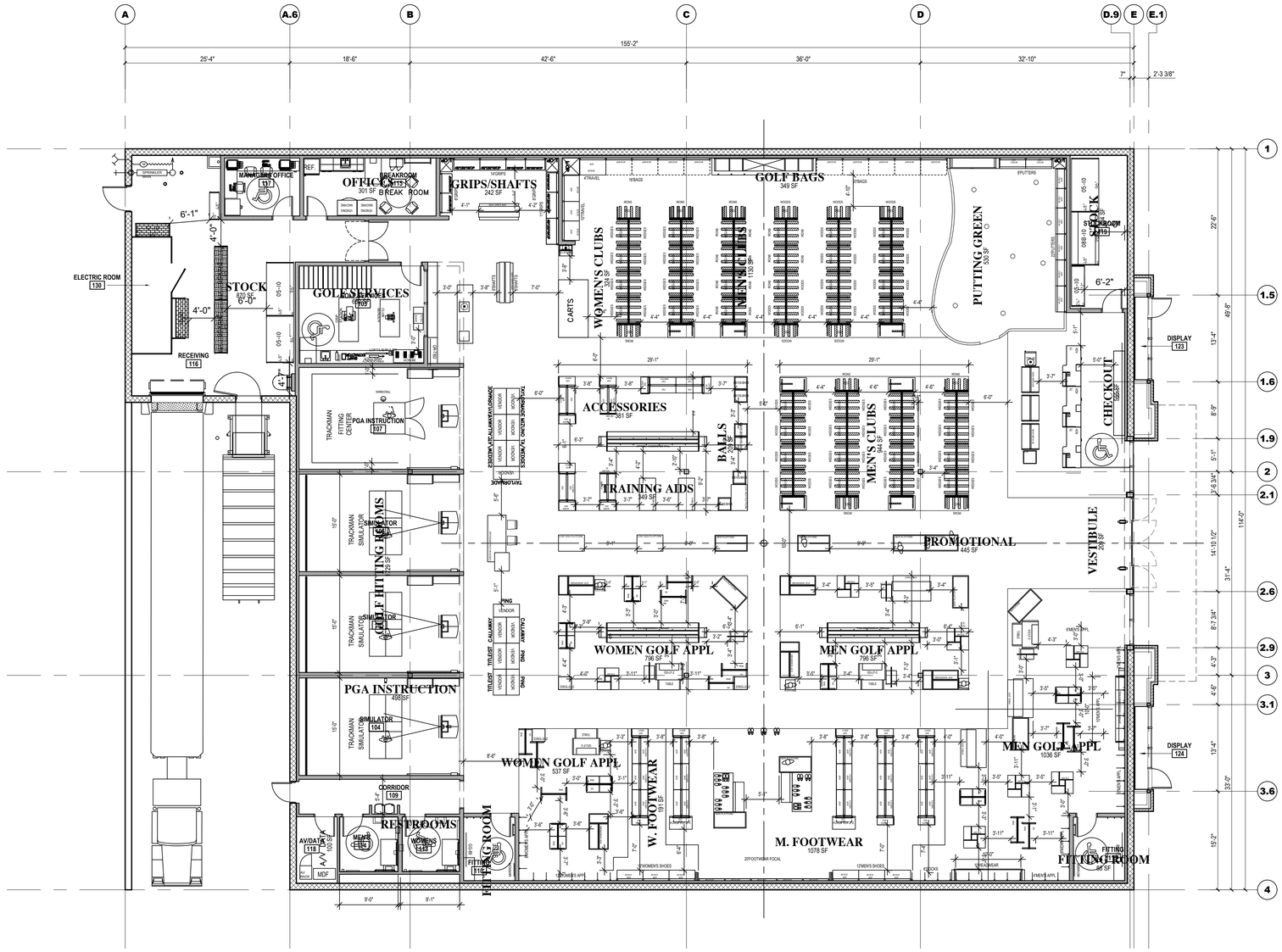
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
STOREFRONT / VESTIBULE DETAILS

SHEET NUMBER:
A10.0



LEGEND	
NUMBER INDICATES HEIGHT	GONDOLA RISERS
	ARCHERY TARGETS
	ARCHERY BOWS
	FISHING RODS
	FLOOR OUTLET
	PUTTER WALL
	SLATWALL
	GONDOLA WITH SLAT FINISH
	GRIDWALL SECTION
	WALL STANDARDS
	APPAREL HANG BARS
	STATIC HANGING BIKES 14'-2" A.F.F.
MDF	MAIN DISTRIBUTION FEED
IDF	INTERMEDIATE DISTRIBUTION FEED
2WY2436	2WY2436 2-WAY
4WY1622	4WY1622 4-WAY
LF-105	LF-105 FEATURE PALLET
HF48	HF48 H-FRAME
DSG-NT52	DSG-NT52 FEATURE TABLE
DUMP BIN	DUMP BIN
	WALL CORNER PROTECTOR
	T.I.M.E PALLET

THIS PLAN IS BASED ON DSG FIXTURE PLAN DATED FEBRUARY 26, 2021

ARCHITECTURAL
FIXTURE PLAN
1/8" = 1'-0"

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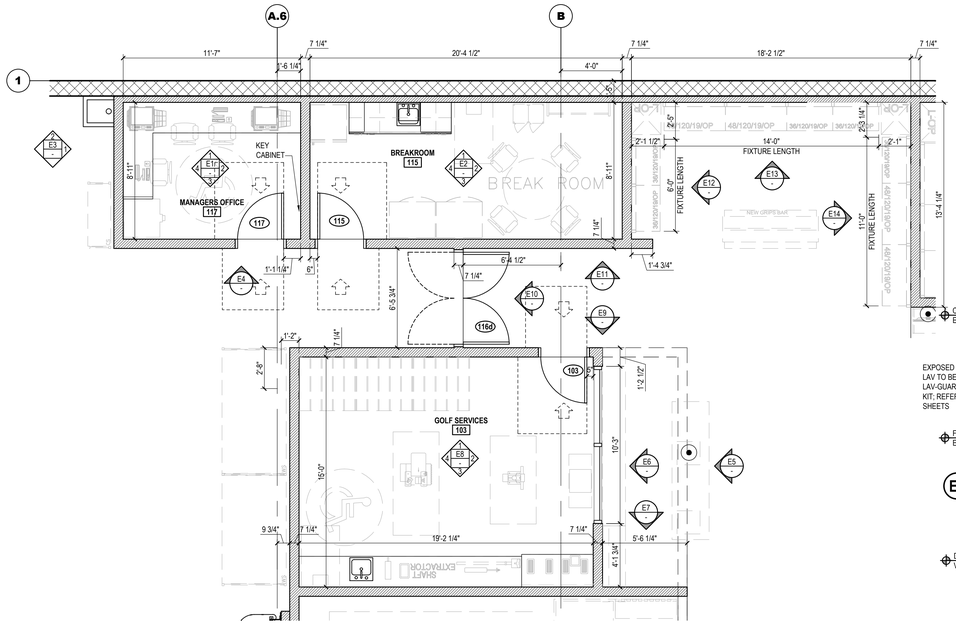
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

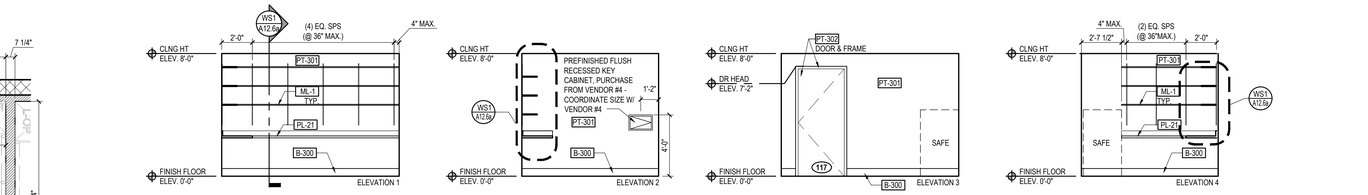
PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
ARCHITECTURAL FIXTURE PLAN

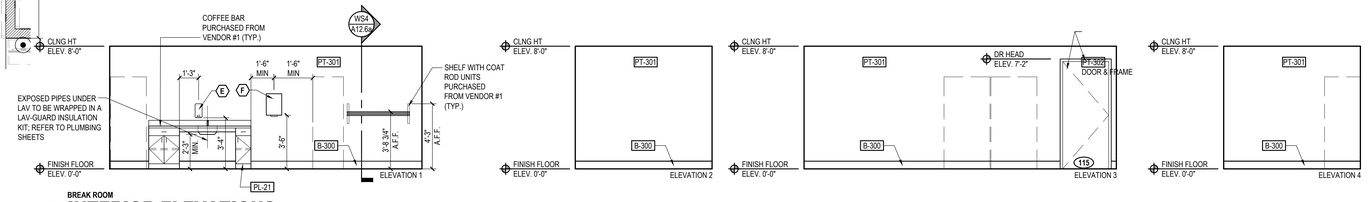
SHEET NUMBER:
A11.0



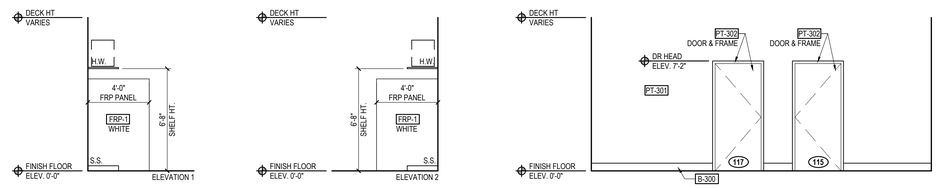
OFFICES/GOLF SERVICES
FP1 FLOORPLAN
SCALE 1/4" = 1'-0"



MANAGERS OFFICE
E1 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



BREAK ROOM
E2 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



JANITOR
E3 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"

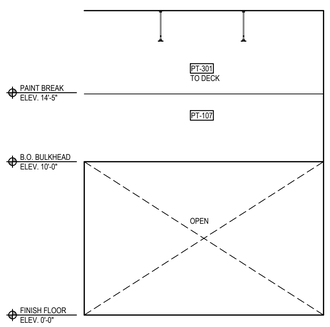
CORRIDOR
E4 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"

BREAK ROOM ACCESSORIES

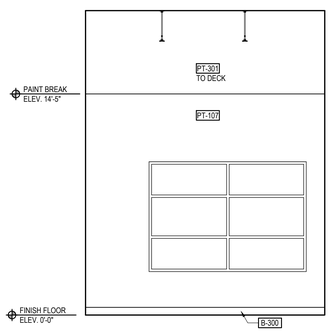
TAG	DESCRIPTION	MANUFACTURER #	VENDOR	REMARKS
E	ELECTRONIC SOAP DISPENSER	Wausau Paper #1491218	#29	
F	HYBRID DUAL-FUNCTIONALITY PAPER TOWEL DISPENSER	TORK #14771728	#29	

GENERAL NOTES

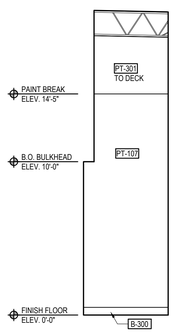
1. WORK SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. COORDINATE WORK WITH RELATED TRADES.
2. PROVIDE FRT BLOCKING FOR FIXTURES.



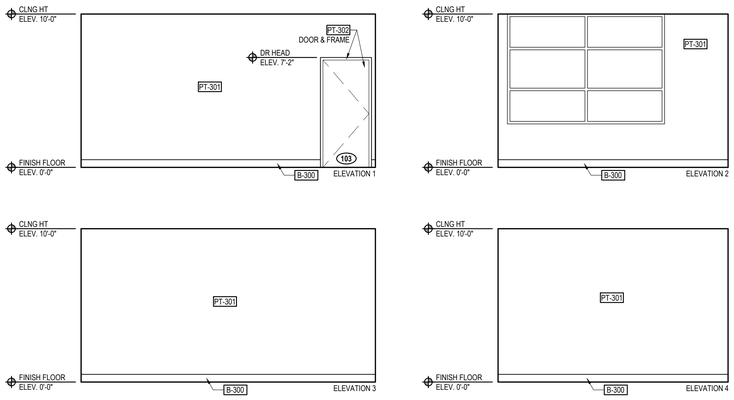
GOLF SERVICES
E5 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



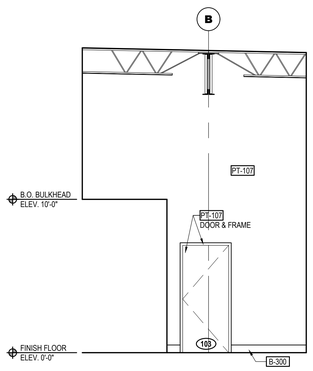
GOLF SERVICES
E6 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



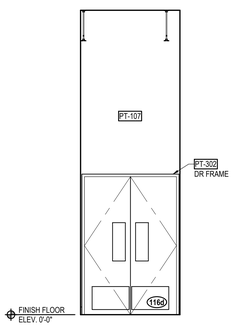
GOLF SERVICES
E7 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



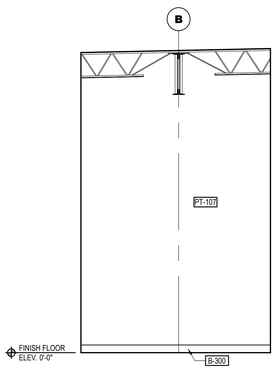
GOLF SERVICES
E8 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



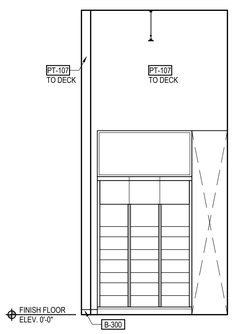
GOLF SERVICES
E9 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



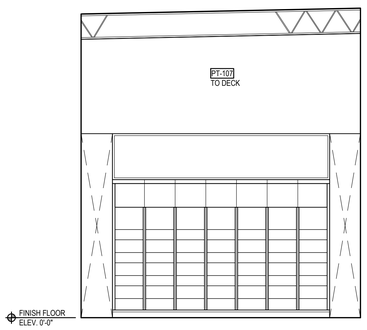
GOLF SERVICES
E10 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



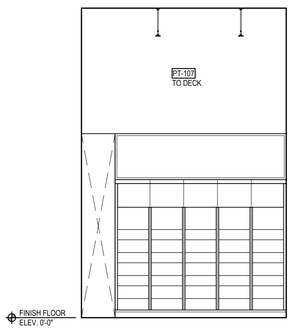
GOLF SERVICES
E11 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



GOLF SERVICES
E12 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



GOLF SERVICES
E13 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



GOLF SERVICES
E14 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"

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SOLON, OH 44139
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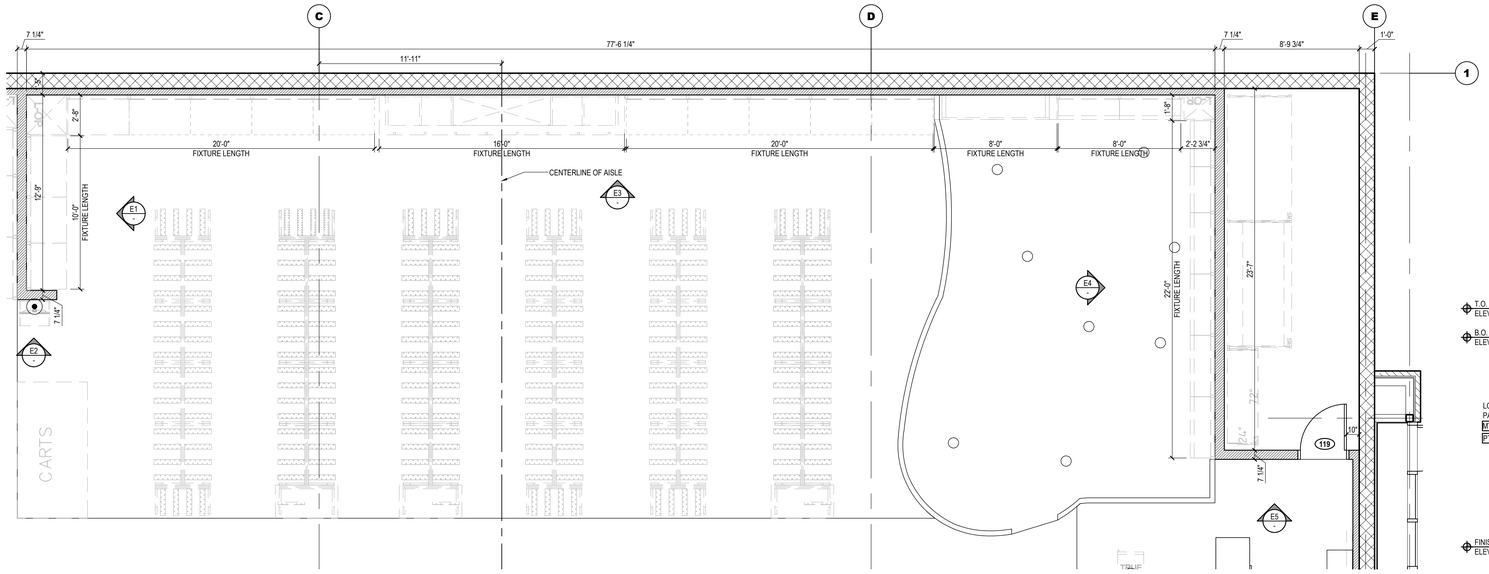
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

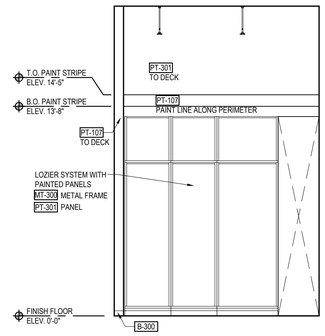
DRAWING:
FITNESS & GOLF SERVICES
ENLARGED PLAN & ELEVS

SHEET NUMBER:
A12.0

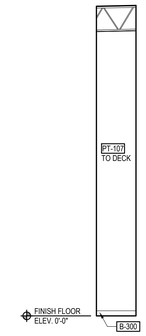


BAGS/PUTTING GREEN
FP1 FLOORPLAN
SCALE 1/4" = 1'-0"

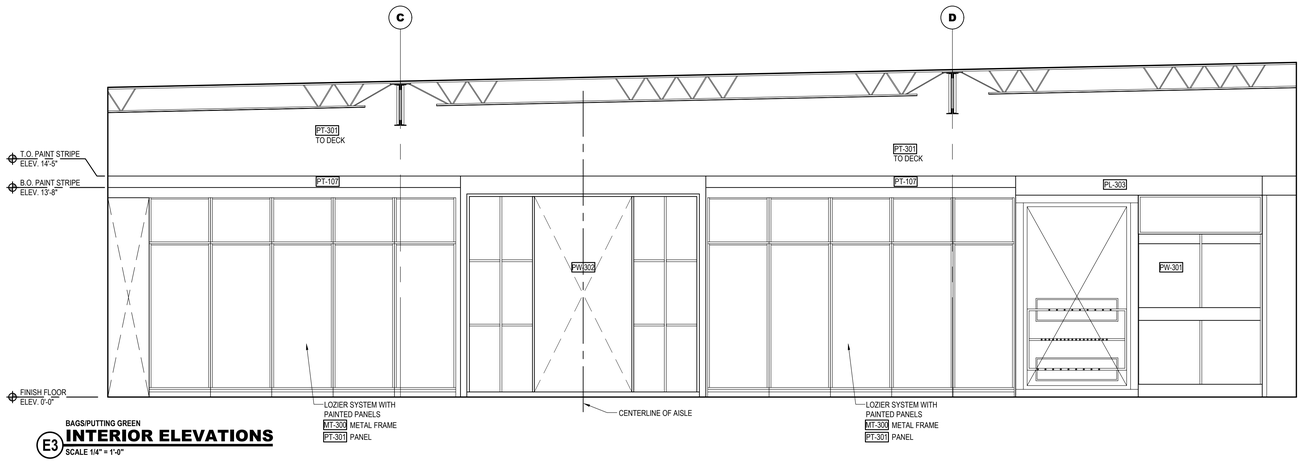
NOTE:
G.C. TO PREP GYPSUM BOARD BEHIND GRAPHIC TO A LEVEL 5 FINISH WITH A MINIMUM OF 3 COATS TOTAL. MUST BE DONE AT LEAST (1) ONE WEEK PRIOR TO THE GRAPHICS INSTALLATION - COORDINATE WITH VENDOR #8; EXTEND ADJACENT PAINT AND LEVEL 5 FINISH BEHIND THE WOOD TRIM.



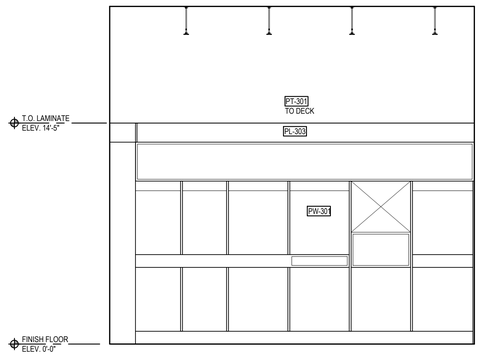
BAGS/PUTTING GREEN
E1 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



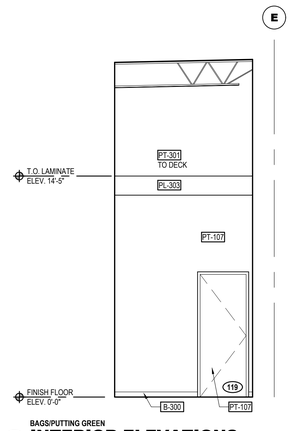
BAGS/PUTTING GREEN
E2 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



BAGS/PUTTING GREEN
E3 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



BAGS/PUTTING GREEN
E4 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



BAGS/PUTTING GREEN
E5 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"

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GOLF GALAXY

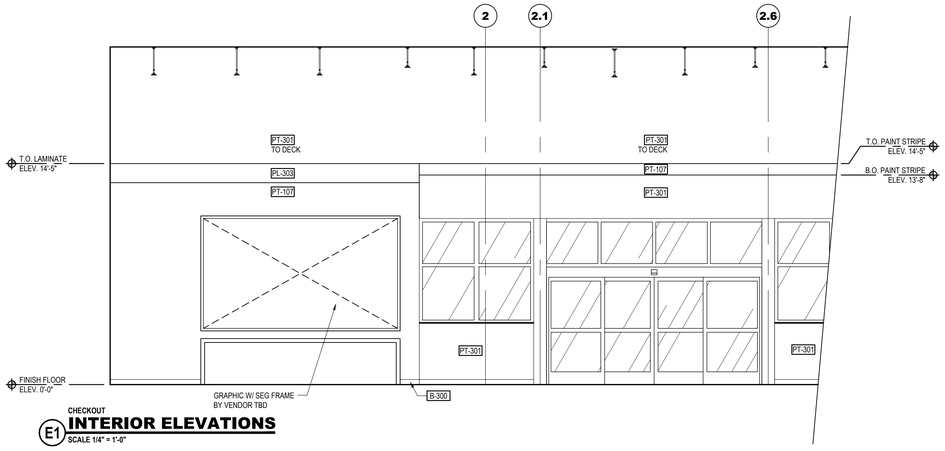
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

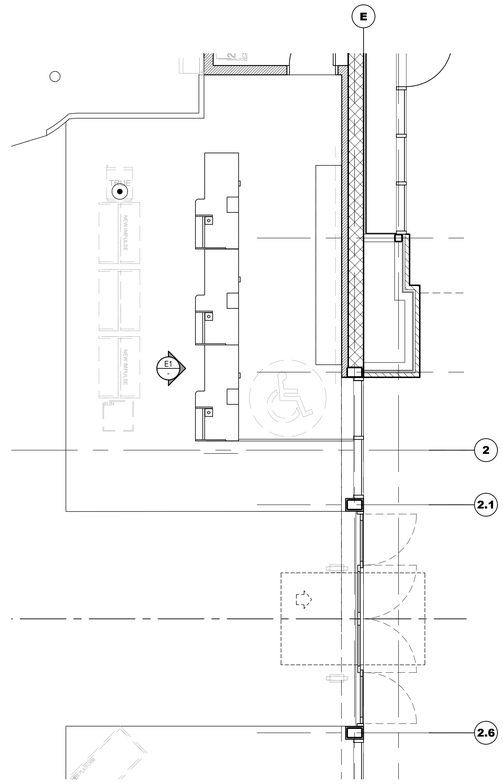
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
BAGS & PUTTING GREEN
ENLARGED PLAN & ELEVS

SHEET NUMBER:
A12.1



CHECKOUT
E1 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



CHECKOUT
FP1 FLOORPLAN
SCALE 1/4" = 1'-0"

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GOLF GALAXY

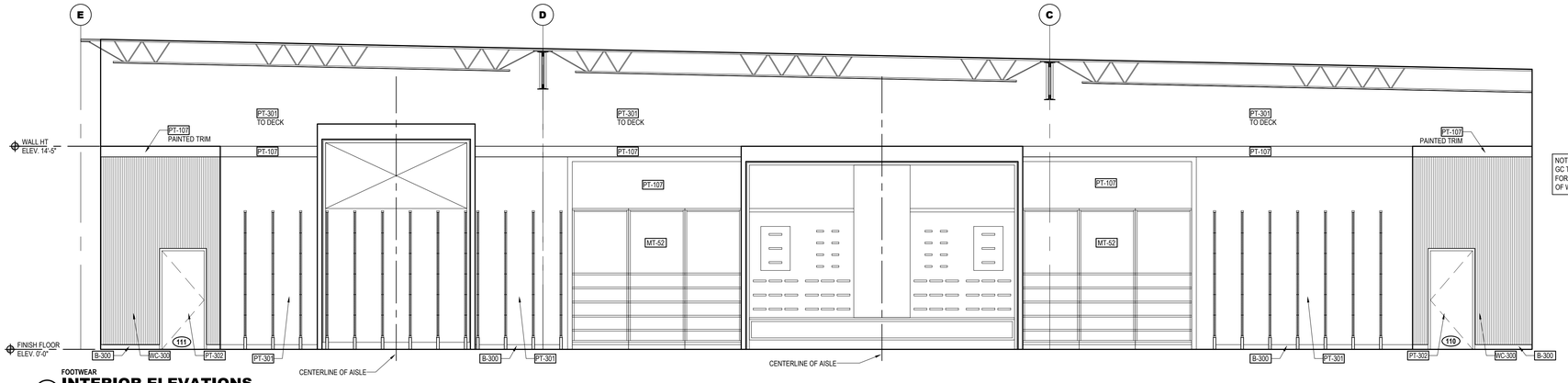
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

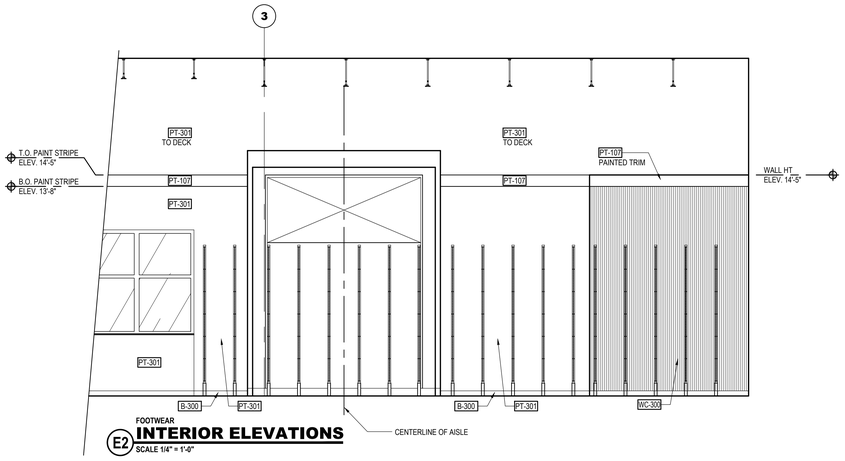
DRAWING:
CHECKOUT ENLARGED PLAN & ELEVS

SHEET NUMBER:
A12.2

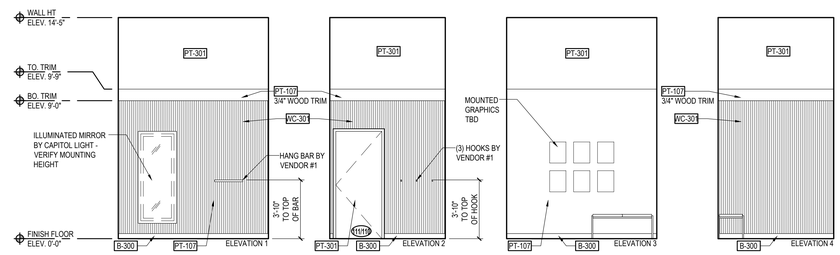


NOTE:
GC TO PROVIDE ALT FOR PT-301 IN PLACE OF WC-300

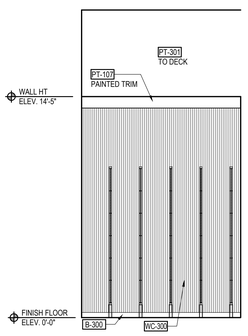
FOOTWEAR
E1 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



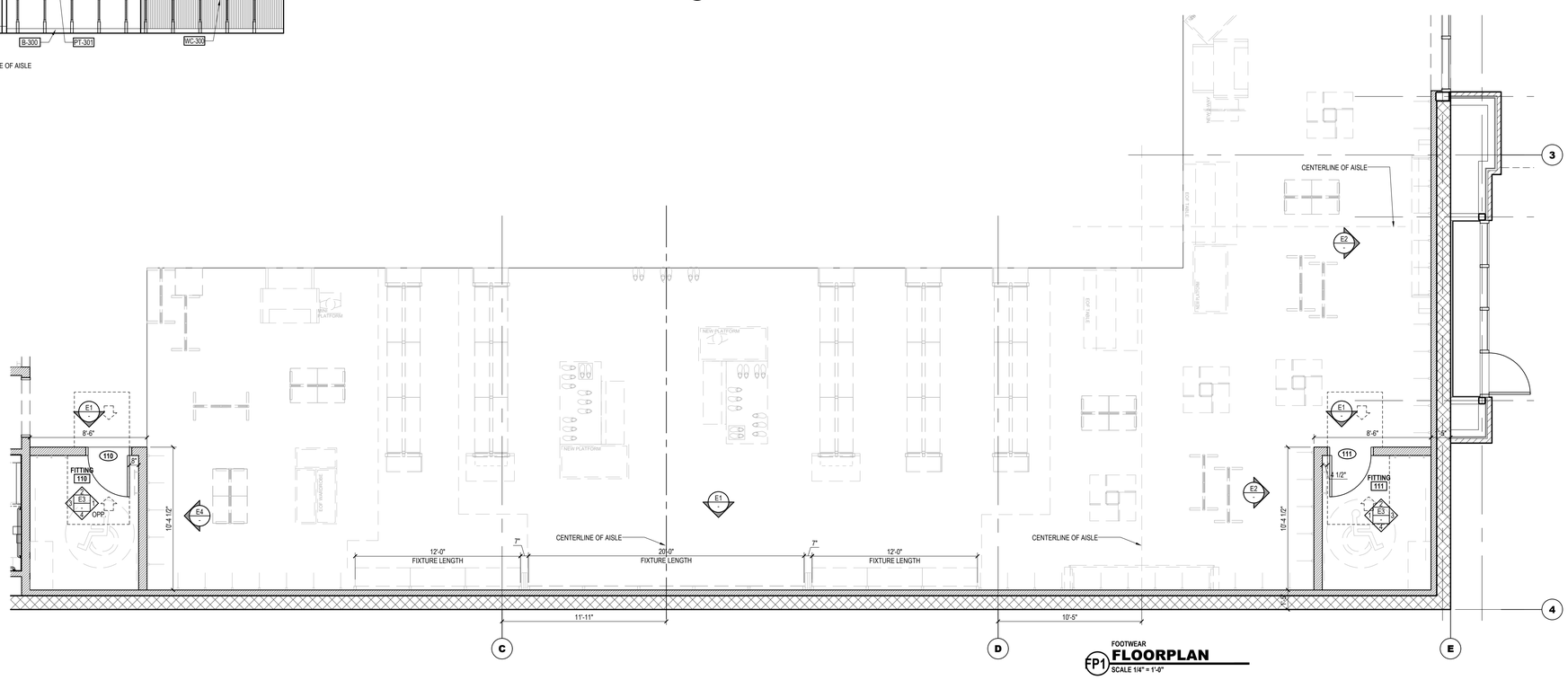
FOOTWEAR
E2 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



FITTING ROOM
E3 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



FOOTWEAR
E4 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



FOOTWEAR
FP1 FLOORPLAN
SCALE 1/4" = 1'-0"

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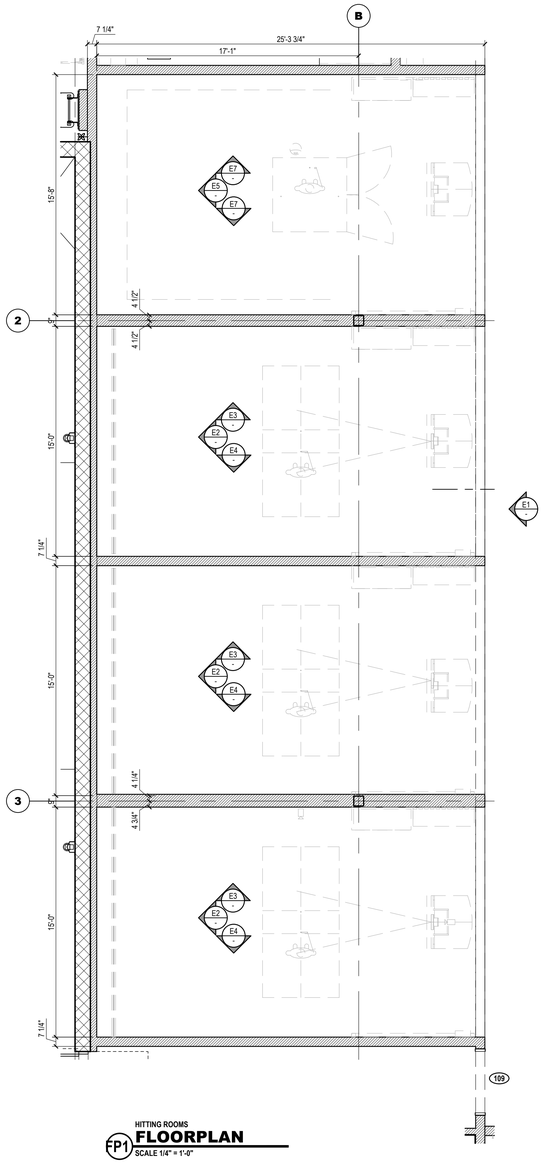
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

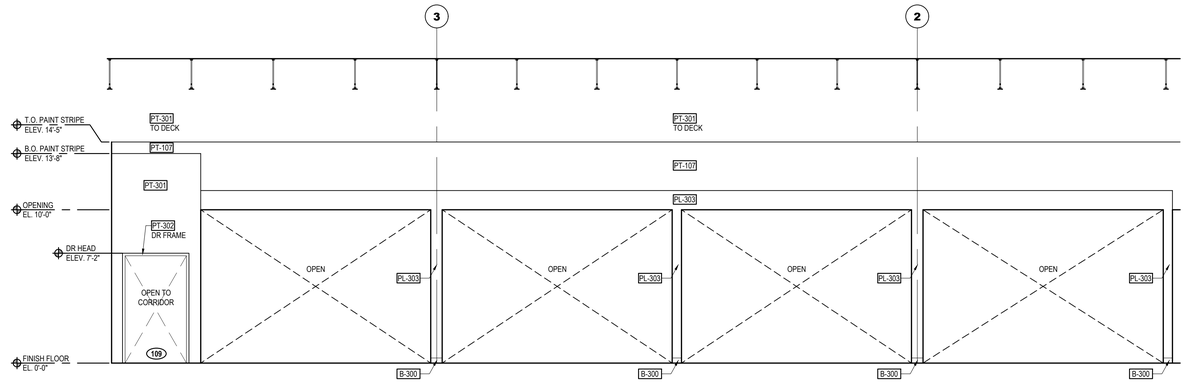
PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
FOOTWEAR ENLARGED PLAN & ELEVS

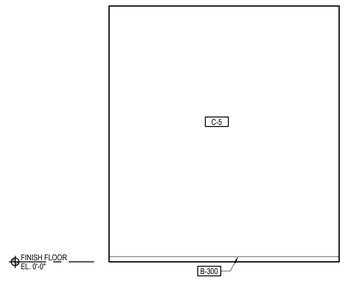
SHEET NUMBER:
A12.3



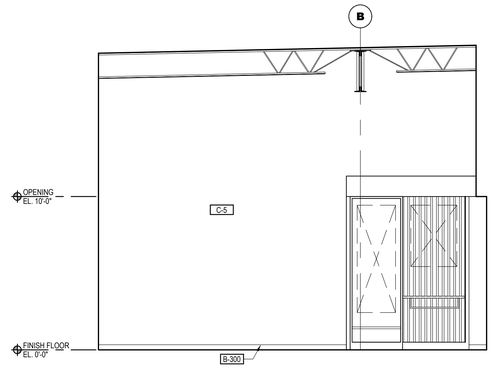
HITTING ROOMS
FP1 FLOORPLAN
SCALE 1/4" = 1'-0"



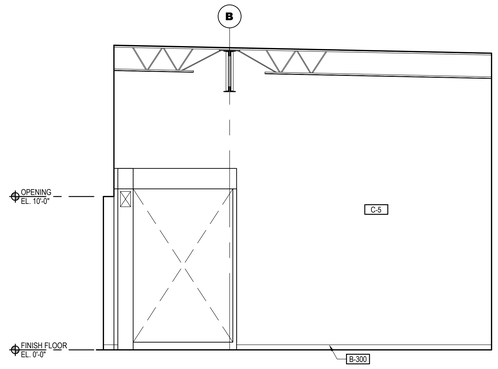
HITTING ROOMS
E1 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



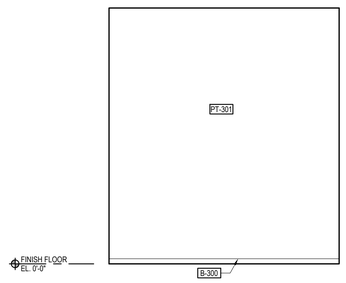
HITTING ROOMS
E2 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



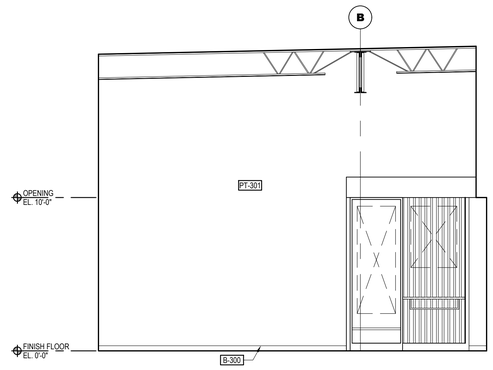
HITTING ROOMS
E3 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



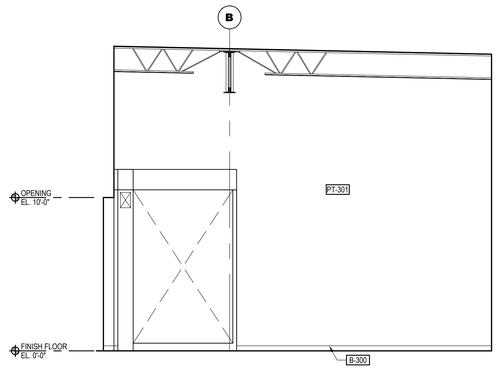
HITTING ROOMS
E4 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



HITTING ROOMS
E5 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



HITTING ROOMS
E6 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"



HITTING ROOMS
E7 INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"

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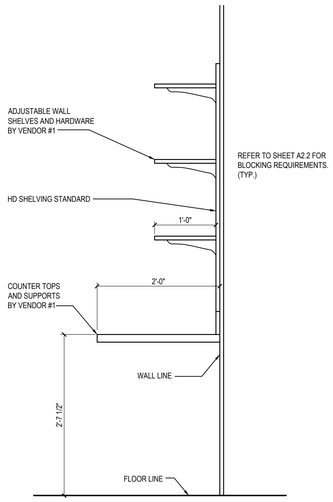
GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
HITTING ROOMS
ENLARGED PLAN & ELEVS

SHEET NUMBER:
A12.4



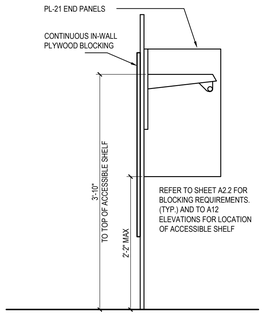
NOTE: SIMILAR DETAIL AT CASH AND COUNT ROOMS.

NOTE - THIS DETAIL IS FOR DIMENSIONAL FRAMING PURPOSES ONLY, DETAILS AND FIXTURES WILL BE PROVIDED BY VENDOR #1

DEPT. MANAGER'S OFFICE

WS1 BLOCKING DETAIL

SCALE 1" = 1'-0"



NOTE - THIS DETAIL IS FOR DIMENSIONAL FRAMING PURPOSES ONLY, DETAILS AND FIXTURES WILL BE PROVIDED BY VENDOR #1

HANGER WALL RACK

WS4 BLOCKING DETAIL

NOT TO SCALE

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GOLF GALAXY

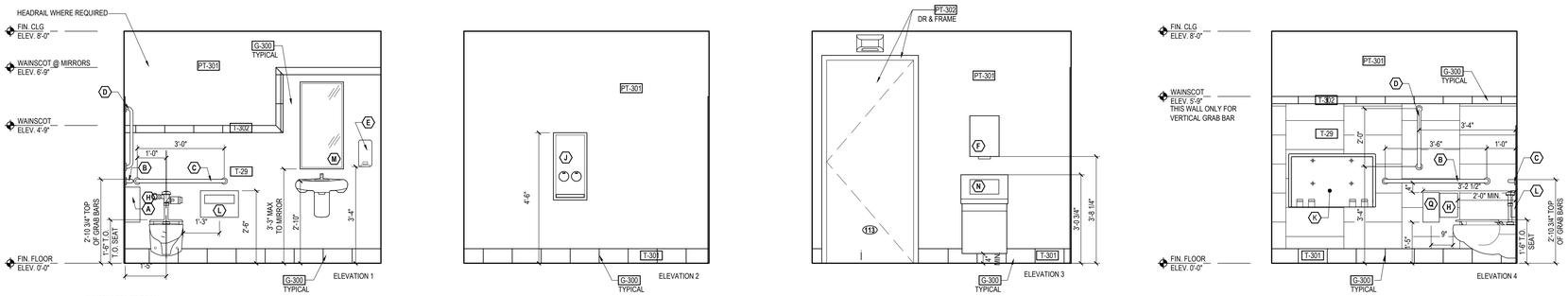
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
OFFICE SECTIONS & DETAILS

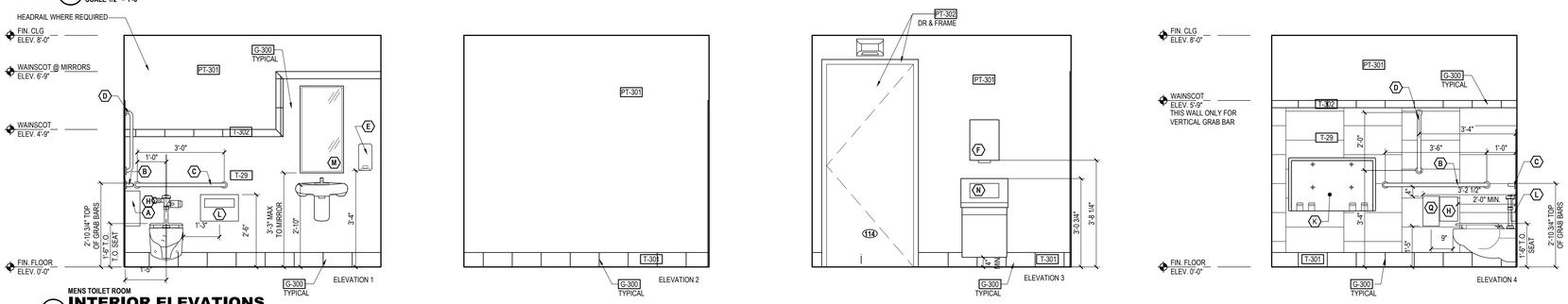
SHEET NUMBER:
A12.6a



WOMENS TOILET ROOM

E1 INTERIOR ELEVATIONS

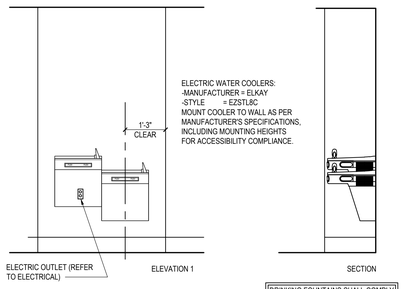
SCALE 1/2" = 1'-0"



MENS TOILET ROOM

E2 INTERIOR ELEVATIONS

SCALE 1/2" = 1'-0"



DRINKING FOUNTAINS SHALL COMPLY WITH THE REQUIREMENTS OF 521 CMR 36, DRINKING FOUNTAINS

CORRIDOR

E3 INTERIOR ELEVATIONS

SCALE 1/2" = 1'-0"

TOILET ROOM INTERIOR FINISHES

TOILET PARTITIONS		THE ADJUSTABLE CAM ON THE BOTTOM OF THE DOOR MUST BE ADJUSTED ON THE ACCESSIBLE STALLS SO THE DOOR IS SELF-CLOSING; SEE SPECS FOR HARDWARE
	REFER TO SPECIFICATION 10 2113 FOR APPROVED MANUFACTURERS AND PARTITION COLORS	

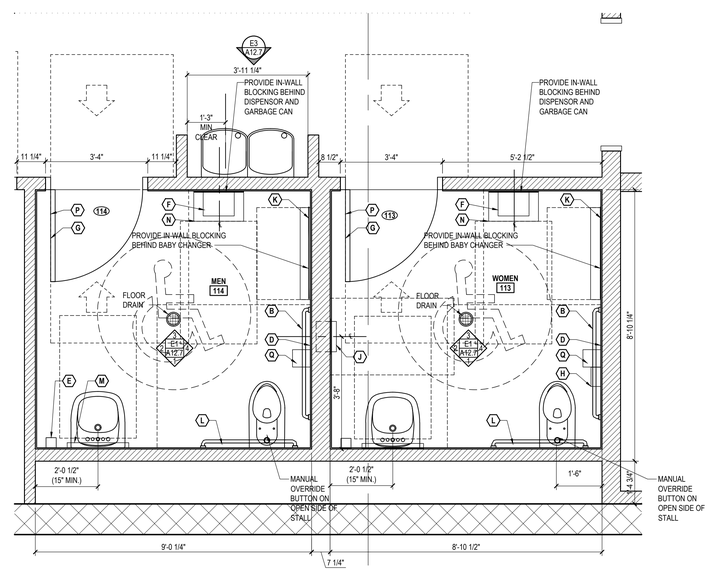
TOILET ROOM ACCESSORIES

TAG	DESCRIPTION		MANUFACTURER #	VENDOR	REMARKS
A	TOILET PAPER DISPENSER		TORK Opticore #14565628	#29	
B	ACCESSIBLE GRAB BARS (WATER CLOSETS)	SIDE	Bobrick B-6806.99 X 42	#29	
C	ACCESSIBLE GRAB BARS (WATER CLOSETS)	BACK	Bobrick B-6806.99 X 36	#29	
D	ACCESSIBLE GRAB BARS (WATER CLOSETS)	VERT.	Bobrick B-6806.99 X 24	#29	MOUNT 40" A.F.F. TO BOTTOM OF BAR
E	ELECTRONIC SOAP DISPENSER		Wausau Paper #14912218	#29	
F	HYBRID DUAL-FUNCTIONALITY PAPER TOWEL DISPENSER		TORK #14771728	#29	
G	COAT HOOK		Bobrick B-682	#29	MOUNT 64" A.F.F. TO CENTERLINE IN STALLS; MOUNT 46" A.F.F. MAX. (TO THE TOP) IN ACCESSIBLE STALLS
H	SANITARY NAPKIN DISPOSAL		Bobrick B-270	#29	
J	SANITARY NPK / TMP DISPENSER		Bobrick B-3706	#29	DISPENSER NEEDS A 6" STUD WALL FOR A RECESSED INSTALLATION. (UNIT CAN BE SEMI-RECESSED IN A 4" STUD WALL.)
K	BABY CHANGING STATION		ASI #9012	#29	INSTALL BOTTOM SCREW MOUNTS AT 33" AFF; REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS.
L	TOILET SEAT COVER DISPENSER		Bobrick B-221	#29	
M	STAINLESS STEEL MIRROR		Bobrick B-165 1836	#29	
N	WALL MOUNTED GARBAGE CAN		Rubbermaid RCP 7822 W/ LID BEIGE	#29	
P	DOOR PULL		JACKNOB CORP. DOOR PULL SET #54400	G.C.	ACCESSIBLE STALL TO HAVE ONE ON EACH SIDE OF PARTITION DOOR
Q	TOILET PAPER DISPENSER		TORK Opticore #565628-TWO ROLL DISPENSER	#29	TWO ROLL DISPENSER TO TO BE USED IN WOMEN'S ACCESSIBLE STALL ONLY

GENERAL NOTES

1. TOILET ROOM ACCESSORIES TO BE INSTALLED BY G.C.
2. WORK SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. COORDINATE WORK WITH RELATED TRADES.
3. CLEAR DIMENSIONS FROM ℄ TO ℄ OF FIXTURES, AND FROM ℄ OF FIXTURES TO ADJACENT PARTITIONS OR WALLS ARE CONSIDERED HOLD DIMENSIONS.
4. PROVIDE CLEAR SEALANT AROUND PERIMETER OF MIRRORS, BETWEEN TILE AND FRAME.
5. PROVIDE FRT BLOCKING FOR FIXTURES.
6. ADJUST ACCESSIBLE STALL DOORS TO BE SELF-CLOSING.
7. BABY CHANGING STATION SHALL BE CAPABLE OF WITHSTANDING A STATIC LOAD OF 300 POUNDS.

NOTE:
G.C. TO BE RESPONSIBLE FOR PATCHING EXISTING WALL AFTER BLOCKING IS INSTALLED, TYP.



RESTROOM

FLOOR PLAN

1/2" = 1'-0"

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21
1	CITY COMMENTS	01-28-21

DRAWING:
RESTROOMS ENLARGED PLAN & ELEVATIONS

SHEET NUMBER:
A12.7

GENERAL NOTES

Design Criteria

Applicable Building Code: 2020 Florida Building Code (7th Edition)

1. Design live loads

   A. Floor loads
      a. Retail
         - First floor (slab on grade) =100 psf

   B. Roof loads
      a. Minimum roof live load by code = 20 psf

2. Design wind loads

   A. Basic wind speed (3 second gust) (Ultimate) = 156 mph
      a. Exposure = C
      b. Risk Category = II

   B. Main wind-primary frame (Ultimate)

Directional Procedure

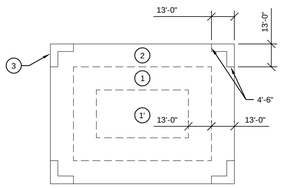
Height	X-Direction	Y-Direction
1. 0-15'	50.4 psf	51.2 psf
2. 20'	52.2 psf	53.0 psf
3. 25'	53.6 psf	54.5 psf

   C. Components and Cladding Wind Loads (PSF) (Ultimate)

WALLS - WINDWARD COMPONENTS AND CLADDING								
Height	Effective Area (sq.ft.)							
	Interior Zone				Exterior Zone			
	10	20	50	100	10	20	50	100
0-25	62.8	60.2	56.2	53.6	62.8	60.2	56.2	53.6

WALLS - LEEWARD COMPONENTS AND CLADDING								
Height	Effective Area (sq.ft.)							
	Interior Zone				Exterior Zone			
	10	20	50	100	10	20	50	100
0-25	68.0	65.4	61.5	58.9	83.7	78.5	70.6	65.4

ROOF UPLIFT - COMPONENTS AND CLADDING								
Effective Area (sq. ft.)	Gross				Net (roof joists)			
	10	20	50	100	10	20	50	100
Zone 1'	53.8	53.8	53.8	53.8	48.8	48.8	48.8	48.8
Zone 1	93.6	88.1	79.6	73.7	88.6	83.1	74.6	68.7
Zone 2	123.4	116.0	105.0	97.6	116.4	111.0	100.0	92.6
Zone 3	168.2	152.3	130.9	115.0	163.2	147.3	125.9	110.0



   D. Components and cladding: use the most stringent wind load obtained from code, underwriter criteria (Factory Mutual, etc.), and the project specifications. Cladding manufacturer shall consider increased pressure coefficients at building perimeter, corners, eaves, and rakes. Loads noted in general notes are obtained from code.

3. Seismic

   S_S = 0.049

   S_1 = 0.027

   S_{DS} = 0.052

   S_{D1} = 0.043

Seismic importance factor (Ie)	1.0
Risk Category	II
Seismic site class	D
Seismic design category	A
Response Modification factor (R)	3.5
Seismic Response Coefficient (Cs)	1.01
Basic seismic force resistance system	Intermediate reinforced masonry shear walls
Analysis procedures	Equivalent lateral force method
Design base shear (v)	16 kips (ultimate)

General

1. The term General Contractor (G.C.) as used in these documents refers to the Contractor / Construction Manager in responsible charge of the project in terms of coordination, scheduling, subcontractor coordination, etc. This term refers to, but is not limited to, General Contractor, Construction Manager, Design Build Contractor, Prime Contractor, etc. The term is referencing the entity that coordinates the work of other trades.

2. All referenced standards, such as codes, specifications, and other publications noted herein, are intended to refer to the edition of said standard as referenced by the applicable building code or the latest edition published as of the date on the contract documents.

3. The structure is designed to be self-supporting and stable after the building is fully completed. It is solely the contractor's responsibility to determine erection procedure and sequence and insure the safety of the construction personnel, public, building and its component parts, and adjacent buildings and properties. This includes the addition of whatever temporary or permanent shoring, bracing, needling, underpinning, or sheet piling, etc. that may be necessary to brace new construction and adjacent buildings, so that the structure is braced for wind, seismic, gravity, construction loads, etc. and so that no horizontal or vertical settlement or any damage occurs to the adjacent existing structures. Temporary supports shall be maintained in place until permanent supports and/or shoring and bracing are installed. Design of these supports shall be by an engineer registered in the state where the project is located in the employ of the contractor.

4. Fall protection support from perimeter of structure shall be provided in accordance with OSHA requirements as required. Such material shall remain the contractor's property after completion of the project.

5. It is the contractors' responsibility to enforce all applicable safety codes and regulations during all phases of construction.

6. The contractor shall perform all construction for the project in a manner and sequence that are based on accepted industry standards that recognize the interaction of the components that comprise the structure, without causing distress, unanticipated movements or irregular load paths as a result of the construction means and methods employed.

7. Construction loads shall not exceed design live loads. The contractor shall be responsible for all design required to support construction equipment used in constructing this project. Shoring and re-shoring is the responsibility of the contractor.

8. Principal openings through the structure are shown on these drawings. The general contractor shall examine the structural and mechanical, electrical, plumbing and other trades drawings for the required openings and shall verify size and location of all openings with the appropriate trade contractor. Providing all openings required for mechanical, electrical, plumbing, or other trades shall be a part of the general contract, whether or not shown in the structural drawings. Any deviation from the openings shown on the structural drawings shall be brought to the engineer's attention for review.

9. All contractors are required to examine the drawings and specifications carefully, visit the site and fully inform themselves as to all existing conditions and limitations, prior to agreeing to perform the work. Failure to visit the site and familiarize themselves with the existing conditions and limitations will in no way relieve the contractor from furnishing any materials or performing any work in accordance with drawings and specifications without additional cost to the owner.

10. Details labeled "Typical Details" on drawings apply to situations occurring on the project that are the same or similar to those specifically detailed. Such details apply whether or not details are referenced at each location. Notify engineer for clarifications regarding applicability of "Typical Details".

General (cont.)

11. Work these drawings with architectural, mechanical, electrical, and plumbing drawings, along with all other drawings and specifications included in the contract documents.

12. Do not scale drawings.

13. Any discrepancies between structural and architectural drawings shall be brought to the attention of the architect and structural engineer.

14. Should any of the general notes conflict with any details or instructions on plans, or in the specifications, the strictest provision shall govern.

15. Shop drawings and submittals:

    A. These drawings shall be checked and coordinated with other materials and contracts by the general contractor and shop drawings and submittals shall bear the contractor's review stamp with the checker's initials before being submitted to the architect for approval.

    B. When the fabricator has been authorized to use the architect's and engineer's drawings as erection drawings, the fabricator must remove all title blocks, professional seals and any other references to the architect and engineer from that erection drawing. The fabricator's name and title shall be placed on the erection drawings.

    C. Where dimensions and elevations of existing construction could affect the new construction, it is the contractor's responsibility to make field measurements in time for their incorporation in the shop drawings.

Building Pad Preparation

1. All building pad preparation shall follow the recommendations of the geotechnical report (uno).

2. All trees, brush, roots, topsoil, rubble, organically contaminated or otherwise objectionable materials encountered are to be removed from structural areas of the site per the geotechnical report.

3. Subgrade sectors which will exist in cut and those which are to support fill structures are to be proof rolled. Areas exhibiting instability are to be undercut and back filled on a lift-by-lift basis with each lift carefully compacted.

4. If unstable subgrade sectors cannot be stabilized by excavation and recompaction, then crushed stone or similar coarse aggregate materials shall be rolled into the subgrade until a firm subgrade reaction is achieved.

5. The geotechnical engineer shall determine on site or off site imported material that can be used for engineered fill. All fill material shall be approved by the geotechnical engineer.

6. The proposed engineered fill materials are to be placed in lifts not exceeding eight (8) inches in loose measured thickness. Each lift is to be compacted as follows:

   A. Slab on grade: Minimum of 98% maximum density by ASTM D1557.
   B. Footings bearing on fill: Minimum of 98% maximum density by ASTM D1557.

8. The earthwork program shall be conducted under the supervision of a soils testing laboratory. The in-place densities achieved are to be verified by tests.

Foundation

1. The contractor shall familiarize themselves with the survey and the geotechnical investigation report before starting construction. All foundation work shall be in accordance with the recommendations of the geotechnical report by Terracon, dated Feb. 12, 2021 except where noted otherwise on drawings or specifications.

2. A soils testing laboratory shall be retained by the owner to provide construction review to insure conformance with the construction documents during the excavation, back fill, and foundation phases of the project.

3. The soils testing laboratory shall:
   - Discuss with the engineer the design intent of the construction documents and the testing procedures used to ensure conformance with the construction documents before construction begins.
   - Inform the engineer of any variance in these procedures.

4. It shall be the responsibility of the soils testing laboratory to:
   - Determine topsoil and excavation stripping depth;
   - Inspect all subsoil exposed during stripping, site grading, and excavation operations;
   - Approve fill materials, perform density tests of fills to insure placement per specification requirements;
   - Inspect foundation bearing surfaces.

5. Foundation design is based on 2500 psf bearing pressure on firm, undisturbed soil.

6. Top of footing elevations, footing steps and thickness of footings are shown on the drawings and are based upon the information from the geotechnical report and the civil drawings available at the time of design. The top and bottom of footing may vary depending on the conditions encountered at the site. Frost depth shall be maintained and coordinated with final grading and location of footing steps. If proper foundation bearing is found to be deeper than that shown on the drawings then foundations shall be thickened maintaining the top of footing elevation to assure proper foundation bearing. The contractor shall submit unit prices for such work and shall qualify the extent of work in the base bid. If top of footing elevations need to vary for final site conditions then the general contractor shall coordinate the effort of other trades.

7. Step footings, where required, at a ratio of one (1) vertical to two (2) horizontal with a maximum vertical step of 2'-0" unless noted otherwise.

8. Inundation and long term exposure of bearing surfaces, which will result in deterioration of bearing formations, shall be prevented. Footings shall be placed immediately following footing excavations and bearing surface inspection.

9. Back filling against restrained walls shall not be permitted until the supporting floors are in place and are able to resist the imposed lateral forces. Except for cantilever retaining walls or unless noted otherwise on drawings, the walls are supported by the floor above and below. Proper temporary bracing may be used in lieu of the floor support based upon the design by a professional engineer. The design of temporary bracing is the total responsibility of the contractor.

10. All fill materials shall be free of organic contaminations and other deleterious matter.

11. For back fill against restrained walls, retaining walls, footings, etc., place in 8" thick layers, with each lift compacted at near optimum moisture content, until a minimum in place density of 98% of the maximum density as determined by ASTM D1557 is achieved.

12. All soil surrounding and under footings shall be protected from frost action and freezing during the course of construction.

13. Notify structural engineer of any unusual soil conditions that are in variance with the geotechnical report.

Concrete

1. All concrete construction shall conform to ACI 301, "Specifications for Structural Concrete", ACI 305.1, and ACI 306.1 unless noted otherwise.

2. All detailing, fabrication and placing of reinforcing bars, unless otherwise noted, shall conform to ACI 318, "Building Code Requirements for Structural Concrete", ACI 117, and the ACI Detailing Manual.

3.

Concrete Types Schedule							
Type of Concrete	Minimum cementious content (lb/cu. yd)	Maximum water/cement ratio (by weight)	Specified 28-day compressive strength (psi)	Specified slump range for placement with W.R. (inches)	Specified air content range (% by volume)	Maximum size aggregate (inches)
• Spread footings • Piers below grade	470	0.60	3000	5	0-3 Entrapped	1 1/2
• Interior concrete	564	0.48	4000	3-5	0-3 Entrapped	1
• Exterior slabs • Exterior walls	564	0.45	4500	5-6	0-3 Entrapped	1

Notes:

A. All cement shall be Type I or Type III Portland Cement per ASTM C150. Types IA and IP are not acceptable. Use one brand of cement throughout project.
B. Minimum cementitious content shall consist of 100% cement or a combination of cement and Fly Ash per Note C, or a combination of cement and ground granulated blast furnace slag (GGBFS) per Note D. Fly Ash shall not be used in combination with GGBFS as a substitute for cement.
C. Fly Ash is permitted and shall conform to ASTM C618 Type C or F, but shall not exceed 20% of cementitious content by weight indicated above on a substitution basis and shall be included in the water-to-cement ratio. If Fly Ash is used, the mix design submittals shall have tests using the same amount of Fly Ash. The contractor's schedule shall account for the use of Fly Ash.
D. Ground granulated blast furnace slag (GGBFS) is not permitted.
E. Concrete used for floors shall have 1800 psi, 3 day strength. Mixes to be pumped shall be so identified on the mix design submittal. All pumped mixes shall have a mid-range or high-range water reducer.
F. All admixtures other than superplasticizers shall be added at the batch plant. Superplasticizers, designed for addition to the mix at the plant, may be added at the batch plant with verifications from the structural engineer and verifications that the water-to-cement ratio has not been exceeded. Superplasticizers added at the site shall be sent in pre-measured containers from the batch plant.
G. All concrete used for cast-in-place concrete slabs shall contain the specified water reducing or water reducing/retarding admixture. All concrete slabs, placed at air temperature below 50°F shall contain the specified non-corrosive, non-chloride accelerator. All concrete placed at air temperature above 80° shall contain specified water-reducing/retarder admixture. All concrete required to be air-entrained shall contain an approved air-entraining admixture. All pumped concrete shall contain the specified high-range water-reducing admixture. Concrete with a water-cement ratio above 0.40 to 0.60 shall contain the specified water reducer.
H. All concrete requiring a high slump for placement (e.g. pumping, drilled piers, etc.) shall contain mid-range and high-range superplasticizer. Increased slump may not be achieved by exceeding the specified maximum water cement ratio. Maximum slump is 8 inches with use of water reducing admixture (ASTM C494).
I. Calcium chloride shall not be permitted, nor shall any admixture containing calcium chloride be permitted.

Concrete (cont.)

4. All pipe sleeve openings through concrete slabs shall be formed with standard steel pipe.

5. No electrical conduit shall be placed above the welded wire fabric or top reinforcing of slabs. Conduit embedded in slabs on composite metal deck are subject to additional restrictions and shall be coordinated with the structural engineer. Where slab thickness on metal deck contributes to fire rating, embedded conduit is prohibited.

6. All aluminum in contact with concrete or dissimilar metals shall be coated with two coats coal tar epoxy, approved by the architect, unless otherwise noted.

7. Concrete shall be discharged at the site within 1 1/2 hours after water has been added to the cement and aggregates. Addition of water to the mix at the project site will not be permitted. All water must be added at the batch plant. Slump may be adjusted only through the use of additional water reducing admixture or high range water reducing admixture.

8. All concrete shall be placed without horizontal construction joints, except where specifically noted. Horizontal reinforcement shall be continuous through vertical construction joints.

9. Construction joint locations other than shown on the drawings are permitted subject to prior approval of the engineer. Expansion joint and control joint locations are mandatory as shown. Contractor shall submit drawings showing intended placing sequences and location of construction joints to the engineer for approval. At poured in place walls, construction joints shall be located so as to provide a 60'-0" maximum horizontal length of concrete placement in any direction.

10. All exposed edges of concrete members shall be chamfered 3/4" unless shown otherwise on architectural drawings.

11. See architectural drawings for concrete finishes, masonry anchors, and for miscellaneous embedded plates, bolts, anchors, angles, etc.

12. The placement of sleeves, outlet boxes, box-outs, anchors, etc., for the mechanical, electrical and plumbing trades is the responsibility of the trade involved; however, any box-outs not covered by typical details in the structural drawings shall be submitted for approval.

13. Reinforcing bars shall conform to ASTM A615, grade 60. No tack welding of reinforcing in the field will be permitted.

14. Reinforcing bars for welded applications shall conform to ASTM A706, 60 ksi yield strength.

15. Welded wire fabric reinforcing shall conform to ASTM A1064 and be furnished in flat sheets and installed on chairs.

16. Reinforcing bar sizes #3 through #5 may be bent cold the first time, provided reinforcing bar temperature is above 32°. For other bar sizes, preheat reinforcing bars before bending. See procedures as outlined in ACI 301.

17. Wire bar supports shall be furnished for all reinforcing within slabs, inclusive of welded wire fabric. Bottom bars in slabs on grade may be supported by other suitable supports. Reinforcing shall be properly positioned prior to concrete placement and may not be re-positioned once concrete operations have begun. Wire bar and other types of supports shall be in accordance with the Concrete Reinforcing Steel Institute Manual of Standard Practice.

18. Reinforcement shall be continuous through all construction joints unless otherwise noted on drawings.

19. All hooks shown on drawings shall be standard hooks unless otherwise noted.

20. Where continuous bars are called for, they shall run continuously around corners and be lapped at necessary splices, or hooked at discontinuous ends. Lap lengths shall be as given in the splice and development table. Lap beam top bars at mid-span and beam bottom bars at supports, unless otherwise noted.

21. In reinforced concrete walls and footings provide corner dowels of same size and spacing as horizontal reinforcing. Dowels shall have a class "b" lap with horizontal reinforcing in each direction.

Minimum Lap Splice and Anchorage Dimension Table

1. 3000 psi normal weight concrete, Fy=grade 60,non-coated bars

Top Bars			Other Bars		
Bar size	Lap	Anchorage	Bar Size	Lap	Anchorage
#3	28"	22"	#3	22"	17"
#4	37"	29"	#4	29"	22"
#5	47"	36"	#5	36"	28"
#6	56"	43"	#6	43"	33"
#7	81"	63"	#7	63"	48"
#8	93"	72"	#8	72"	55"

2. 4000 psi normal weight concrete, Fy=grade 60, non-coated bars

Top Bars			Other Bars		
Bar Size	Lap	Anchorage	Bar Size	Lap	Anchorage
#3	24"	19"	#3	19"	15"
#4	33"	25"	#4	25"	19"
#5	41"	31"	#5	31"	24"
#6	49"	37"	#6	37"	29"
#7	71"	54"	#7	54"	42"
#8	81"	62"	#8	62"	48"

3. When lapping two different size bars, use the lap dimension of the smaller bar or the anchorage dimension of the larger bar. Use whichever dimension is larger.

Minimum Concrete Cover for Reinforcing

1. Unless noted otherwise, concrete reinforcing shall be placed with proper cover to provide protection in accordance with ACI 318, and within deviation tolerances listed in ACI 117.

2.

Location	Minimum Cover
Footings and grade beams cast against and permanently exposed to earth	3"
Slabs on grade (W.W.F)	1/3 slab thickness from top of slab
Walls interior face	3/4"
Walls exterior face: #5 and smaller	1 1/2"

Post-Installed Anchors and Reinforcing Dowels

1. Design of anchors, adhesives, and embedments specified on the drawings is based on Hilti products. Any substitutions shall meet or exceed the allowable shear and allowable tension values published in the Hilti North American Product Technical Guide.

2. The contractor shall submit ICC ES Evaluation reports and manufacturer installation instructions for all post-installed anchors being used on the project.

3. The contractor shall ensure the installers of post-installed anchors shall have at least three (3) years of experience installing anchors in similar installations. If installers do not have the required experience with similar installations they must conduct a thorough training with the manufacturer's representative. Training shall consist of but not be limited to, proper hole drilling procedures, hole preparation and cleaning techniques, adhesive injection techniques and dispenser training / maintenance, rebar dowel preparation and installation and proof loading/torquing.

4. The contractor shall provide manufacturer product information for any requests for substitution for review to the EOR for compliance with the contract documents.

5. The contractor shall submit the specific product information, for each application, for any product requesting substitution. For each application being substituted, provide anchor type, embedment depth, adhesive type, edge distances, etc.; along with the allowable shear and tension capacity for the requested applications. Do not provide generic product data; only specific values for each substitution will be reviewed. If this information is not fully provided, the submittal will be immediately rejected.

6. Post-installed anchors and dowels shall be used only where specifically indicated on the drawings or for specific conditions approved by the engineer. Items indicated to be cast-in-place shall not be substituted with post-installed methods or products unless prior approval is given by the engineer. When requesting a substitution of a post-installed anchor in lieu of cast-in-place anchor, calculations, for a post-installed alternate, shall be provided by an engineer registered in the appropriate jurisdiction of the project.

7. Fastener and anchor material shall be as follows:
   - Carbon and Alloy Steel Nuts: ASTM A563
   - Carbon Steel Threaded Rod: ASTM F1554, GR.36

8. The following anchors shall only be used where indicated on the drawings, unless specifically noted otherwise in sections or details in the drawings:

MASONRY ANCHORS (MASONRY SHALL BE SOLID GROUTED A DISTANCE OF 8" FROM ANCHOR IN ALL DIRECTIONS)		
ANCHOR TYPE	ADHESIVE TYPE	ROD TYPE
Adhesive	Hilti HIT-HY270 SafeSet System	3/8"Ø Hilti HAS-E Continuous Threaded (3 3/8" embed)
Adhesive	Hilti HIT-HY270 SafeSet System	1/2"Ø Hilti HAS-E Continuous Threaded (4 1/2" embed)
Adhesive	Hilti HIT-HY270 SafeSet System	5/8"Ø Hilti HAS-E Continuous Threaded (5 5/8" embed)
Adhesive	Hilti HIT-HY270 SafeSet System	3/4"Ø Hilti HAS-E Continuous Threaded (6 3/4" embed)

Masonry

1. All masonry shall conform to "Building Code Requirements for Masonry Structures" (ACI 530/ASCE 5/TMS 402) and "Specification for Masonry Structures" (ACI 530.1/ASCE 6/TMS 602).

2. All brick and concrete masonry construction shall comply with the recommendations of the Brick Industry Association (BIA) and the National Concrete Masonry Association (NCMA) and minimum requirements established in the applicable building code.

3. Grouting and Reinforcing: All masonry and grouting and reinforcing work shall be performed by masonry craftworkers who have successfully completed the International Masonry Institute (1-800-IMI-0988) training course for Grouting and Reinforced Masonry Construction, or equal.

4. Structural masonry design compressive strength of wall assembly (f'm) = 2,000 psi based on Unit Strength Method, unless otherwise noted.

5. Concrete masonry units (CMU) shall conform to ASTM C90.

6. Mortar for all structural masonry shall be Type S, conforming to ASTM C270 Proportion Specification, and shall be either Portland cement (ASTM C150, Type I or III) and hydrated lime (ASTM C207, Type S) or Mortar cement (ASTM C1329). Masonry cement mortar is not acceptable for structural masonry.

7. Grout to fill cores shall be ASTM C476, coarse grout (3/8" maximum aggregate) with a minimum compressive strength of 2500 psi in 28 days.

8. Reinforcing bars shall conform to ASTM A615, grade 60.

9. Deformed bar anchors (DBA) shall conform to ASTM A1064, 70 ksi yield strength.

10. All concrete masonry units shall have galvanized horizontal joint reinforcement as follows:

    A. 9 ga. side and cross rods (ladder type) spaced 16" o.c. vertically.

    B. 9 ga. side and cross rods (ladder type) spaced 8" o.c. vertically in parapets.

11. Lap joint reinforcing as shown in the table below:

Wire Joint Reinforcing	Splice Length
W1.7 (9 ga.)	7"

12. All cores with reinforcement shall be filled solid with grout. All grout shall be consolidated in place by vibration to insure complete filling of cells.

13. Place reinforcing bars before grouting. Properly secure reinforcing bars to maintain the positions indicated on the drawings. Bars to be located in center of cells unless otherwise noted.

14. Mortar protrusions, extending into cells or cavities to be reinforced and filled, shall be removed.

15. Place grout with pour height not exceeding 5 feet. Consolidate each pour by mechanical vibration. Reconsolidate after initial water loss and settlement has occurred.

16. Grout pour height may be increased where the following conditions are met:
    A. Limit pour height based on a minimum width of grout space in accordance with Table 7 of ACI530.1/ASCE 6 /TMS 602.
    B. Place grout in lifts not exceeding the limitations specified in ACI530.1/ASCE 6 /TMS 602.
    C. Consolidate each pour by mechanical vibration. Reconsolidate after initial water loss and settlement has occurred.
    D. Form a grout key between pours according to ACI530.1/ASCE 6 /TMS 602.
    E. Provide an inspection port (cleanout) at each cell to be grouted at the base of each pour.
    F. Submit shop drawings detailing the proposed grouting procedure along with (3) references of previous successful projects.

17. Lay masonry units with full mortar coverage on horizontal and vertical face shells. Bed webs in mortar in starting course on footing and in all courses of columns and pilasters, and where adjacent to cells or cavities to be reinforced or filled with concrete grout.

18. Provide 16" of solid masonry under wall bearing beams and joist girders unless noted otherwise.

19. All corners to be tied by masonry bond.

20. Grout cores solid a minimum of one course below any change in wall thickness.

21. Provide 8" solid masonry 24" wide minimum under wall bearing joists.

22. All masonry walls shall have vertical control joints at a maximum spacing of 25'. Coordinate with locations indicated on architectural drawings. Control joints shall extend through the entire wall thickness, except at continuous bond beams where the masonry shall be scored only.

23. All CMU shall be temporarily braced during construction in accordance with the governing building code for lateral design loads until permanent restraints have been installed. Temporary bracing is the sole responsibility of the contractor. The contractor is responsible for all costs associated with repairs resulting from improper or insufficient bracing.

24. The collar joint in multi-wythe walls below grade shall be fully grouted as the wall is constructed.

25. CMU walls 12" or less in width shall be single-wythe. CMU walls greater than 12" wide may be constructed as multi-wythe, provided the collar joint is continuously grouted solid, continuous header course is provided at 40" o.c. maximum vertically and header overlaps the collar joint by 3" minimum. Use single wythe for walls greater than 12" and exposed to view.

26. All openings in masonry walls for mechanical, electrical, plumbing, etc. penetrations are to be coordinated and located prior to beginning wall construction. Detailed fully-dimensioned drawings of wall openings, including lintels and adjacent reinforcement shall be submitted for review prior to construction of the walls. No openings are permitted to be cut in bearing walls, shear walls or exterior walls without prior approval by the engineer.

27. Quality Assurance

    An independent testing laboratory shall be retained to periodically inspect and perform material testing of masonry materials and construction to comply with the building code and minimum testing and submittals as required by the Special Inspections section of the General Notes.

Steel Joists and Joist Girders

1. Steel joist design, fabrication and erection shall conform to the latest specifications and code of standard practice of the Steel Joist Institute, the requirements of OSHA section 1926.757, and as shown on the drawings. All joist girders to conform to latest edition of AISC and SJI specifications. Joist girder supplier shall supply a copy of all girder calculations and section properties with shop drawings. Joists shown as "special" joists on the drawings shall be designed for the load diagrams shown.

2. All steel joists and joist girders shall receive one standard shop coat of white or light gray oxide paint unless noted otherwise on drawings. Asphaltic paints are not acceptable.

3. All steel joists and joist girders shall be designed to resist net uplift forces shown at beginning of general notes.

4. All open web joist girders to have bottom chord braces as required by design and erection. Braces to be furnished by the joist girder supplier.

5. Ends of every joist which rests on steel supports shall be welded per SJI requirements.

6. General contractor shall verify all structural steel joist locations, mechanical unit weights and opening sizes and locations with mechanical contractor and vendor's drawings for actual mechanical units purchased.

7. No light gage framing, mechanical, electrical, or other equipment shall be suspended from or attached to any interior bridging.

8. Where lighting, ductwork or mechanical equipment is located in joist spaces, contractor shall remove horizontal and/or diagonal bridging interfering with duct or equipment installation once joists are erected and deck is installed. Once ductwork or equipment is installed, horizontal bottom chord bridging shall be reinstalled. Coordinate all proposed removal locations with E.O.R. and joist supplier prior to removing.

9. Field modifications to joists and joist girders are prohibited without the written consent from the joist manufacturer. The contractor shall copy the architect and engineer on all correspondence.

Structural Steel

1. Detailing, fabrication, and erection shall conform to the latest edition as referenced by the applicable building code, of the AISC 'Steel Construction Manual' and AISC 360 'Specification for Structural Steel Buildings', herein referred to as 'AISC Manual' and 'AISC Specification'.

   Structural Steel: (W shapes) ASTM A992 (Fy=50ksi)
   M, S, C shapes) ASTM A36 uno
   (Plate, Angles) ASTM A36 uno

   HSS: (tubular shapes) ASTM A500 grade C (Fy=50ksi)

   All anchor rods shall be ASTM F1554 grade 36, uno.

   All structural steel shall be primed white or light gray; asphaltic paints are not acceptable.

   All column base plates shall have a minimum of four anchor rods.

2. Connections shown on these drawings are generally schematic. They are intended to define the spatial relationship of the framed members and show a feasible method of making the connection. Any connection that is not shown or is not completely detailed on the structural drawings shall be designed by a registered professional engineer, retained by the fabricator. Details and connections may be designed to conform to AISC Manual. Completely detailed means the following information is shown on the shop detail drawings:

   A. All plate dimensions and grade.
   B. All weld sizes, lengths, pitches and returns.
   C. All hole sizes and spacings.
   D. Number and type of bolts: where bolts are shown but no number is given, the connection has not been completely detailed.
   E. Where partial information is given, it shall be the minimum requirement for connection.
   F. Method of design.

3. Details and connections completely detailed in the contract drawings may not be altered without written approval by the engineer. Where approved, altered connections shall be completely detailed by the fabricator's engineer clearly on the shop drawings.

Structural Steel (cont.)

4. Alterations of schematic connection details may impact architectural concept and shall not be made without prior written approval of the engineer.

5. Minimum connection plate thickness shall be 3/8", unless otherwise indicated in the contract drawings.

6. For W, M, S, and C shapes, unless otherwise noted, beam to beam connections and beam to column connections shall be one of the following double angle (t min=5/16") framed beam connections:

   A. Shop welded per Table 10-2, AISC Manual for using weld A, and using 3/4" diameter ASTM 325-N bolts in standard or horizontally slotted holes for the field connection.
   B. All bolted connections per Table 10-1, AISC Manual. Controlling strength of connection shall be least of bolt / angle strength or beam web strength taking into account coped flanges.

   The minimum length of connection angles shall be equal to one-half the depth of the member to be supported.

7. Unless otherwise noted, all connections in HSS sections shall be designed and detailed in accordance with the AISC Manual and AISC Specification.

8. Where the reactions of uniformly loaded beams and girders are not shown on the drawings, the connections shall be designed to support the reactions due to the maximum allowable uniform load as indicated in the load tables of the AISC Manual, Part 3 for the given beam size and span. For beams and girders not uniformly loaded see plan for reaction; if no reaction is shown, contact Engineer of Record for reactions.

9. Slip critical bolts shall be tightened per AISC specifications.

10. All other bolts not designated as slip critical bolts shall be considered bearing bolts. Do not over tighten bearing bolts, especially for beams to support concrete slabs. Tighten bearing bolts to a snug condition only, per AISC specifications.

11. Twist-off type tension control bolts are not permitted to be used as bearing bolts.

12. All welding shall be done using E-70xx electrodes in accordance with the latest AWS specifications.

13. Work these drawings with architectural drawings for nailer holes and architectural clearances.

14. General contractor shall verify all structural beam locations, mechanical unit weights and opening sizes and locations with mechanical contractor and vendor's drawings for actual mechanical unit purchased.

15. Splicing of structural members where not detailed on the drawings is prohibited without prior approval of the structural engineer.

16. Cuts, holes, coping, etc. required for work of other trades shall be shown on the shop drawings and made in the shop. Cuts or burning of holes in structural steel members in the field will not be permitted, unless specifically approved in each case by the structural engineer.

17. All HSS shapes (round, square, rectangular, etc.) are to have a 1/4" cap plate at all exposed ends. Cap plates to be seal welded all around, uno. Provide 3/8"Ø weep holes in the center of the plate.

18. All weld sizes not shown in details herein shall be the minimum required size based on thickness of thinner part as per AISC Specification, Tables J2.3 & J2.4. Exception: At member splices welds or bolts shall develop full strength of the member or components being connected.

19. All around welds indicated herein shall be discontinuous at the flange tips of open sections.

20. All structural steel, including base plates and tops of anchor bolts, to be exposed to soil are to be coated with an approved coal tar epoxy, 16 mils minimum thickness.

21. Any alteration made by the detailer on the structural steel shop drawings to schematic or completely detailed connections shown on the contract drawings must be clearly identified by clouding or by direct note on the shop drawing by the detailer prior to submission to the engineer.

22. Any member sizes shown on the plans, and currently listed in the AISC Steel Manual, which are not currently available must be brought to the architect's and structural engineer's attention prior to award of steel contract. No claim for additional cost will be accepted after the award, for member/built up member substitutions for these sizes.

23. All supplemental steel required for roof units and roof openings over 12"x12" to be supplied by structural steel fabricator and be coordinated by general contractor with the joist fabricator, mechanical drawings and mechanical equipment supplier.

24. All structural steel beams and columns adjacent to masonry shall have adjustable masonry anchors at 2'-0" o.c.

25. Hot dip galvanize per ASTM A123 after fabrication the following structural steel members:

    A. Shelf angles supporting masonry.
    B. Lintels supporting single or multiple wythe exterior masonry walls.
    C. Items identified on the architectural and structural drawings. All steel permanently exposed to weather shall be hot dipped galvanized unless specified otherwise on the architectural drawings. For members shown to be galvanized, all connection material shall also be galvanized.

Metal Roof Decking

1. All metal roof decking shall comply with the provisions of the latest edition of SDI-RD 'Standard for Steel Roof Deck' and underwriter requirements (Factory Mutual, etc.).

2. Deck and accessories shall be shop primed with white or light gray rust inhibitive primer.

3. Deck and accessories that are to receive spray fireproofing shall be galvanized.

4. No light gage framing, mechanical, electrical or other equipment shall be suspended from or attached to any metal roof deck.

5. See plans for deck attachment.

Cold-Formed Metal Framing

1. The design, installation and construction of cold-formed carbon or low-alloy steel, structural and nonstructural exterior steel framing, shall be in accordance with "The Standard for Cold-Formed Steel Framing-General Provisions, American Iron and Steel Institute" (AISI-general) and AISI-NASPEC.

2. Design of cold-formed metal stud framing shown is based on SSMA studs with section properties and allowable resisting moment capacities as defined in AISI manual, Cold-Formed Steel Design.

3. Minimum thickness of exterior cold-formed wall studs and tracks shall be 18 ga. at masonry veneer and 20 ga. at other locations, (u.n.o.). Minimum stud flange width shall be 1 5/8". Increase gauge thickness as required by finish system manufacturer (e.g. metal panel system, etc.). G.C. to coordinate requirements with selected manufacturers.

4. Member sizes given or connections specifically detailed on the drawings shall be considered a minimum requirement.

5. All framing members 16 ga. and heavier shall be formed from steel with a minimum yield strength of 50 ksi. All other framing shall be formed from steel with a minimum yield strength of 33 ksi.

6. All framing shall be galvanized, G90 coating at masonry veneer and G60 at other locations.

7. All connections shall be screwed or welded. Powder driven fasteners are not acceptable for any structural applications without prior approval of engineer of record.

8. Connection methods and fastener sizes/types shall not deviate from that indicated on drawings unless a substitution request is submitted and approved by architect/engineer prior to installation.

9. Member web openings shall be positioned a minimum of 10" from connections.

10. All welds shall be touched up with zinc-rich paint.

11. Contractor shall submit fabrication and erection shop drawings to the engineer for review for all cold-formed metal framing components and connections indicated on the contract drawings. Any deviation from cold-formed metal framing layout and arrangement shown on the architectural and structural drawings shall be approved by the architect/engineer and additional review costs shall be the responsibility of the contractor.

12. For all framing components and connections not specifically detailed on the structural drawings including trusses, headers, jambs, etc. submit shop drawings and calculations stamped by an engineer registered in the appropriate jurisdiction of the project.

13. Contractor shall design and furnish cold-formed metal framing for all exterior soffits and ceilings indicated on architectural drawings, designed to resist lateral wind loads and uplift wind pressure.

14. OSB or plywood sheathing shall be attached to light gauge framing with #10 TEK screws at 8" o.c. (uno). The screws shall be of sufficient length to penetrate through the cold-formed steel framing member by at least three exposed threads. All screws shall be hot dipped galvanized per ASTM A153 when sheathing is preservative treated or fire retardant treated.

15. All sheathing shall be APA rated sheathing.

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168

GENERAL NOTES (cont.)

Special Inspection

1. Special inspection is to be provided in addition to the inspections conducted by the department of building safety and shall not be construed to relieve the owner or his authorized agent from requesting the periodic and called inspections required by the applicable building code. Owner shall engage and pay for a qualified testing agency to perform special inspections.

Required Special Inspections

1. In addition to the regular inspections, the following items will also require special inspection in accordance with the applicable building code.

   A. Soils compliance prior to foundation inspection (compacting fill, special grading)
   B. Structural concrete over 2,500 psi
   C. Structural steel fabrication
   D. Field welding
   E. High strength bolts
   F. Structural masonry
   G. Cold Formed Steel Deck

2. Special inspector shall meet the qualifications as stated in the applicable building code and shall perform the duties and responsibilities as outlined in the applicable building code. The special inspector shall provide written documentation to the building official demonstrating his or her competence and relevant experience or training. Experience or training shall be considered relevant when the documented experience or training is related in complexity to the same type of special inspection activities for projects of similar complexity and material qualities. These qualifications are in addition to qualifications specified in others sections of the applicable building code.

3. Special inspection shall meet the requirements of the applicable building code. Special inspector(s) shall be hired by the owner to perform the required special inspections. The names of persons or firms who are to perform the special inspections shall be forwarded to the building official for approval. The special inspector(s) shall complete and submit all forms required by the building department having jurisdiction.

4. Access for special inspection: The construction or work for which special inspection is required shall remain accessible and exposed for special inspection purposes until completion of the required special inspections.

5. The special inspector(s) shall:

   A. Observe the work assigned for conformance to the approved drawing and specifications.
   B. Furnish inspection reports to the engineer of record and building department. Discrepancies shall be brought to the immediate attention of the contractor for correction, then, if not corrected to the engineer and the building department.
   C. Submit to the engineer of record and the building department a signed final report stating that the work was in conformance with the approved drawings and specifications and the applicable workmanship provisions of the applicable building code.

6. Special Inspection Notes:

   A. Continuous special inspection is always required during the performance of the work unless specifically noted below.
   B. Where fabrication of structural load-bearing members and assemblies is being performed on the premises of a fabricator's shop, continuous special inspection is required during the performance of the work except as allowed in the applicable building code and unless specifically noted below.
   C. It is the responsibility of the contractor to provide the special inspector(s) with advance notice, no less than one working day, of the initiation of any work required to have special inspections. All work performed without required special inspection will be subject to removal.

7. Types of work requiring special inspections are:

   A. Structural steel elements of buildings and structures as required by AISC 360 as referenced in the applicable building code, see Table 1.
      1. Exceptions include:
         a. Special Inspection of steel fabrication process shall not be required where the fabricator does not perform any welding, thermal cutting or heating operation of any kind as part of the fabrication process. In such cases, the fabricator shall be required to submit a detailed procedure for material control that demonstrates the fabricator's ability to maintain suitable records and procedures such that, at any time during the fabrication process, the material specification, and grade for the main stress-carrying elements are capable of being determined. Mill test reports shall be identifiable to the main stress-carrying elements required by the approved construction documents.
   B. Cold formed steel deck as required by SDI (Steel Deck Institute) QA/QC as reference in the applicable building code,see Table 2.
   C. Open web steel joists and joist girders as required per Table 3.
   D. Concrete construction as required by applicable building code and Table 4. Exceptions are as follows:
      1. Concrete patios, driveways and sidewalks, on grade.
   E. Masonry construction as required in the applicable building code and Table 5, Level 2, special inspection, except as allowed in the applicable building code.
   F. Special inspection for existing site soil conditions, during site preparation and fill placement, to ensure load-bearing requirements in compliance with applicable building code and Table 7 except as allowed in applicable building code.

8. Additional types of work requiring special inspections for wind resistance defined as wind Exposure Category B, where the allowable design wind speed (V_{ASD}) is 120 miles per hour (155 mph ultimate) or greater or wind Exposure Category C or D, where allowable wind speed (V_{ASD}) is 110 mph (142 mph ultimate) or greater.

   A. Wind-resisting components periodic special inspection is required for the following system and components.
      1. Roof covering, roof deck and roof framing connections.
      2. Exterior wall covering and wall connections to roof and floor diaphragms and framing.

TABLE 1
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

APPLICABLE TO PROJECT	VERIFICATION AND INSPECTION	PERFORM	OBSERVE
X	1. MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN AISC 360 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.	X	--
	2. INSPECTION PRIOR TO WELDING:		
X	a. WELDER QUALIFICATION RECORDS AND CONTINUITY REPORTS	X	--
X	b. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE.	X	--
X	c. MANUFACTURERS CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	X	--
X	d. MATERIAL IDENTIFICATION (TYPE/GRADE)	--	X
X	e. WELDER IDENTIFICATION SYSTEM.	--	X
X	f. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)	--	X
	g. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K- JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) - JOINT PREPARATIONS - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	--	X
X	h. CONFIGURATION AND FINISH OF ACCESS HOLES.	--	X
X	i. FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	--	X
X	j. CHECK WELDING EQUIPMENT.	--	X
	3. INSPECTIONS DURING WELDING		
X	a. USE OF QUALIFIED WELDERS	--	X
X	b. CONTROL AND HANDLING OF WELDING CONSUMABLES - PACKAGING - EXPOSURE CONTROL	--	X
X	c. NO WELDING OVER CRACKED TACK WELDS	--	X
X	d. ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	--	
X	e. WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN/MAX.) - PROPER POSITION (F, V, H, OH)	--	X
X	f. WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	--	X
	4. INSPECTIONS AFTER WELDING		
X	a. WELDS CLEANED	--	X
X	b. SIZE, LENGTH AND LOCATION OF WELDS	X	--
X	c. WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS SECTION - WELD PROFILES - WELD SIZE - UNDERCUT - POROSITY	X	--
X	d. ARC STRIKES	X	--
X	e. k-AREA	X	--
	f. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES.	X	--
X	g. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	--
X	h. REPAIR ACTIVITIES	X	--
X	i. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	--
X	j. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.	--	X
	5. WHEN REQUIRED BY AISC 360 APPENDIX 3, SECTION N WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHIC OR ULTRASONIC INSPECTION SHALL BE TESTED BY SPECIAL INSPECTOR AS PRESCRIBED IN AISC 360.	X	--
	6. INSPECTIONS PRIOR TO BOLTING		
X	a. MANUFACTURERS CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X	--
X	b. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	--	X
X	c. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	--	X
X	d. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	--	X
X	e. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	--	X
X	f. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	--	X
X	g. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	--	X
	7. INSPECTIONS DURING BOLTING		
X	a. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	--	X
X	b. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION	--	X
X	c. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	--	X
X	d. FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TO THE FREE EDGES.	--	X
	8. INSPECTIONS AFTER BOLTING		
X	a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	--
	9. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT		
	a. PLACEMENT AND INSTALLATION OF DECK	X	X
	b. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	X
	c. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	X	X

NOTES:

• 'OBSERVE' SHALL MEAN TO INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. IN THE EVENT THAT OBSERVATIONS DETERMINE THAT THE MATERIALS AND/OR WORKMANSHIP ARE NOT IN CONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF NON-CONFORMANCE.

• 'PERFORM' SHALL MEAN TO PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.

TABLE 2
REQUIRED VERIFICATION AND INSPECTION OF COLD FORMED STEEL DECK

APPLICABLE TO PROJECT	VERIFICATION AND INSPECTION	PERFORM	OBSERVE
	1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT:		
X	a. VERIFY COMPLIANCE OF MATERIALS (DECK AND DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS.	X	--
X	b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	X	--
	2. INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT:		
X	a. VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONTRUCTION DOCUMENTS	X	--
X	b. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS.	X	--
X	c. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES.	X	--
	3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING:		
X	a. WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE	--	X
X	b. MANUFACTURERER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	--	X
X	c. MATERIAL IDENTIFICATION (TYPE / GRADE)	--	X
X	d. CHECK WELDING EQUIPMENT	--	X
	4. INSPECTION OR EXECUTION TASKS DURING WELDING:		
X	a. USE OF QUALIFIED WELDERS	--	X
X	b. CONTROL AND HANDLING OF WELDING CONSUMABLES	--	X
X	c. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	--	X
X	d. WPS FOLLOWED	--	X
	5. INSPECTION OR EXECUTION TASKS AFTER WELDING:		
X	a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS.	X	--
X	b. WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	--
X	c. VERIFY REPAIR ACTIVITIES	X	--
X	d. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	X	--
	6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING:		
X	a. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILBALE FOR MECHANICAL FASTENERS.	--	X
X	b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	--	X
X	c. PROPER STORAGE FOR MECHANICAL FASTENERS	--	X
	7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING		
X	a. FASTENERS ARE POSITIONED AS REQUIRED	--	X
X	b. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	--	X
	8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING		
X	a. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	X	--
X	b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	X	--
X	c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	X	--
X	d. VERIFY REPAIR ACTIVITIES	X	--
X	e. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	X	--

NOTES:

• 'OBSERVE' SHALL MEAN TO INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. IN THE EVENT THAT OBSERVATIONS DETERMINE THAT THE MATERIALS AND/OR WORKMANSHIP ARE NOT IN CONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF NON-CONFORMANCE.

• 'PERFORM' SHALL MEAN TO PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.

ABBREVIATIONS

A.B._____ANCHOR BOLT
A.R._____ANCHOR ROD
ADD'L_____ADDITIONAL
A.F.F._____ABOVE FINISH FLOOR
ARCH._____ARCHITECTURAL
B/_____BOTTOM OF
BLDG._____BUILDING
BM._____BEAM
BOT._____BOTTOM
BRG._____BEARING
BTJ_____BOLTED TIE JOIST
CANT'L_____CANTILEVER
CFMF._____COLD FORMED METAL FRAMING
C.I.P._____CAST-IN-PLACE
CJ._____CONTROL JOINT
CL_____CENTERLINE
CLR._____CLEAR
CMU_____CONCRETE MASONRY UNIT
COL._____COLUMN
CONC._____CONCRETE
CONSTR._____CONSTRUCTION
CONT._____CONTINUOUS
C.Y._____CUBIC YARD
DBA_____DEFORMED BAR ANCHOR
DET._____DETAIL
DIAG._____DIAGONAL
Ø DIA._____DIAMETER
D.L._____DEAD LOAD
DWG._____DRAWING
E.F._____EACH FACE
EJ._____EXPANSION JOINT
EL._____ELEVATION
EMBED._____EMBEDMENT
E.S._____EACH SIDE
EQ._____EQUAL OR EQUIVALENT
EQUIP._____EQUIPMENT
E.W._____EACH WAY
EXP._____EXPANSION
(E)_____EXISTING
EXT._____EXTERIOR
F.D._____FLOOR DRAIN
FIN._____FINISH
FLG._____FLANGE
FLR._____FLOOR
F.S._____FAR SIDE OR FOOTING STEP
FT._____FEET
FTG._____FOOTING
GA._____GAUGE
GB_____GRADE BEAM
G.C._____GENERAL CONTRACTOR
GALV._____GALVANIZED
HDD._____HEADED
HORIZ._____HORIZONTAL
I.F._____INSIDE FACE
INT._____INTERIOR
J/B OR J/BRG.____JOIST BEARING
k_____KIP
LG._____LONG
L.L._____LIVE LOAD
(LLH)_____LONG LEG HORIZONTAL
(LLV)_____LONG LEG VERTICAL
(LSH)_____LONG SIDE HORIZONTAL
(LSV)_____LONG SIDE VERTICAL
L.W._____LONG WAY
MECH._____MECHANICAL
MFR._____MANUFACTURER
(N)_____NEW
(N.I.C.)_____NOT IN CONTRACT
N.S._____NEAR SIDE
NTS_____NOT TO SCALE
O.C._____ON CENTER
O.F._____OUTSIDE FACE
O/O_____OUT TO OUT
OPP._____OPPOSITE
PC._____PRECAST CONCRETE
PJ._____PANEL JOINT
PL_____PLATE
PSF_____POUNDS/SQUARE FOOT
PSI_____POUNDS/SQUARE INCH
RAD._____RADIUS
R.D._____ROOF DRAIN
REINF._____REINFORCING
REQ'D_____REQUIRED
SECT._____SECTION
SIM._____SIMILAR TO
S.O.G._____SLAB ON GRADE
SP._____SPACES
SQ._____SQUARE
STIFF._____STIFFENER
STL_____STEEL
STRUCT._____STRUCTURAL
S.W._____SHORT WAY
SYM._____SYMMETRICAL
T/_____TOP OF
TYP._____TYPICAL
UNO_____UNLESS NOTED OTHERWISE
VERT._____VERTICAL
V.I.F._____VERIFY IN FIELD
W.P._____WORK POINT
W.W.R._____WELDED WIRE REINFORCEMENT
W/_____WITH

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
GENERAL NOTES

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GENERAL NOTES (cont.)

TABLE 3
REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

APPLICABLE TO PROJECT	VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REFERENCED STANDARD (a)
	1. INSTALLATION OF OPEN WEB STEEL JOISTS AND JOIST GIRDERS.			
X	a. END CONNECTIONS - WELDING OR BOLTED.	--	X	SJI SPECIFICATIONS SECT. 2207.1
X	b. BRIDGING - HORIZONTAL OR DIAGONAL.			
X	1. STANDARD BRIDGING.	--	X	SJI SPECIFICATIONS SECT. 2207.1
X	2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		X	

(a) Where applicable, also see Section 1705.12. Special Inspection for Seismic Resistance.

TABLE 4
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

APPLICABLE TO PROJECT	VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REFERENCED STANDARD (a)	APPLICABLE CODE REFERENCE
X	1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	--	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
	2. REINFORCING BAR WELDING:				
	a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	--	X	AWS D1.4 ACI 318: 26.6.4	--
	b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	--	X		
	c. INSPECT ALL OTHER WELDS	X	--		
X	3. INSPECT ANCHORS CAST IN CONCRETE.	--	X	ACI 318: 17.8.2	--
	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: (b)				
X	a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS:	X	--	ACI 318: 17.8.2.4	--
X	b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.	--	X	ACI 318:17.8.2	
X	5. VERIFY USE OF REQUIRED DESIGN MIX.	--	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
X	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	--	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
X	7. INSPECT CONCRETE PLACEMENT PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	--	ACI 318: 26.5	1908.6, 1908.7, 1908.8
X	8. INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	--	X	ACI 318: 26.5.3-26.5.5	1908.9
	9. INSPECTION OF PRESTRESSED CONCRETE:				
	a. APPLICATION OF PRESTRESSING FORCES.	X	--	ACI 318: 26.10 ACI 318: 26.10	--
	b. GROUTING OF BONDED PRESTRESSING TENDONS.	X	--		
	10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	--	X	ACI 318: 26.9	--
	11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	--	X	ACI 318: 26.11.2	--
X	12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	--	X	ACI 318: 26.11.1.2(b)	--

(a) Where applicable, also see Section 1705.12. Special Inspection for Seismic Resistance.
(b) Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 17.8.2 in ACI 318 or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

TABLE 5
LEVEL 2 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

APPLICABLE TO PROJECT	MINIMUM VERIFICATION		
X	PRIOR TO CONSTRUCTION VERIFICATION OF COMPLIANCE OF SUBMITTALS		
X	VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX AS DELIVERED TO THE SITE IN ACCORDANCE WITH ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT.		
X	EXCEPT FOR MASONRY THAT IS EXEMPT, PRE-CONSTRUCTION VERIFICATION OF f'm IN ACCORDANCE WITH ARTICLE 1.4B		
	MINIMUM INSPECTION		
	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
	1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
X	a. PROPORTION OF SITE-PREPARED MORTAR.	--	X
X	b. GRADE AND SIZE OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS	--	X
X	c. SAMPLE PANEL CONSTRUCTION	--	X
	2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
X	a. GROUT SPACE.	--	X
X	b. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	--	X
X	c. PROPORTIONS OF SITE-PREPARED GROUT	--	X
X	d. CONSTRUCTION OF MORTAR JOINTS.	--	X
	3. VERIFY COMPLIANCE DURING CONSTRUCTION:		
X	a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	--	X
X	b. PLACEMENT OF MASONRY UNIT AND MORTAR JOINT CONSTRUCTION	--	X
X	c. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	--	X
X	d. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	--	X
X	e. WELDING OF REINFORCEMENT.	X	--
X	f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	--	X
X	g. PLACEMENT OF GROUT	X	--
X	4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	--	X

TABLE 7
REQUIRED VERIFICATION AND INSPECTION OF SOILS

APPLICABLE TO PROJECT	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
X	1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X
X	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	--	X
X	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	--	X
X	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	--
X	5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	--	X

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
GENERAL NOTES

SHEET NUMBER:
S1.2

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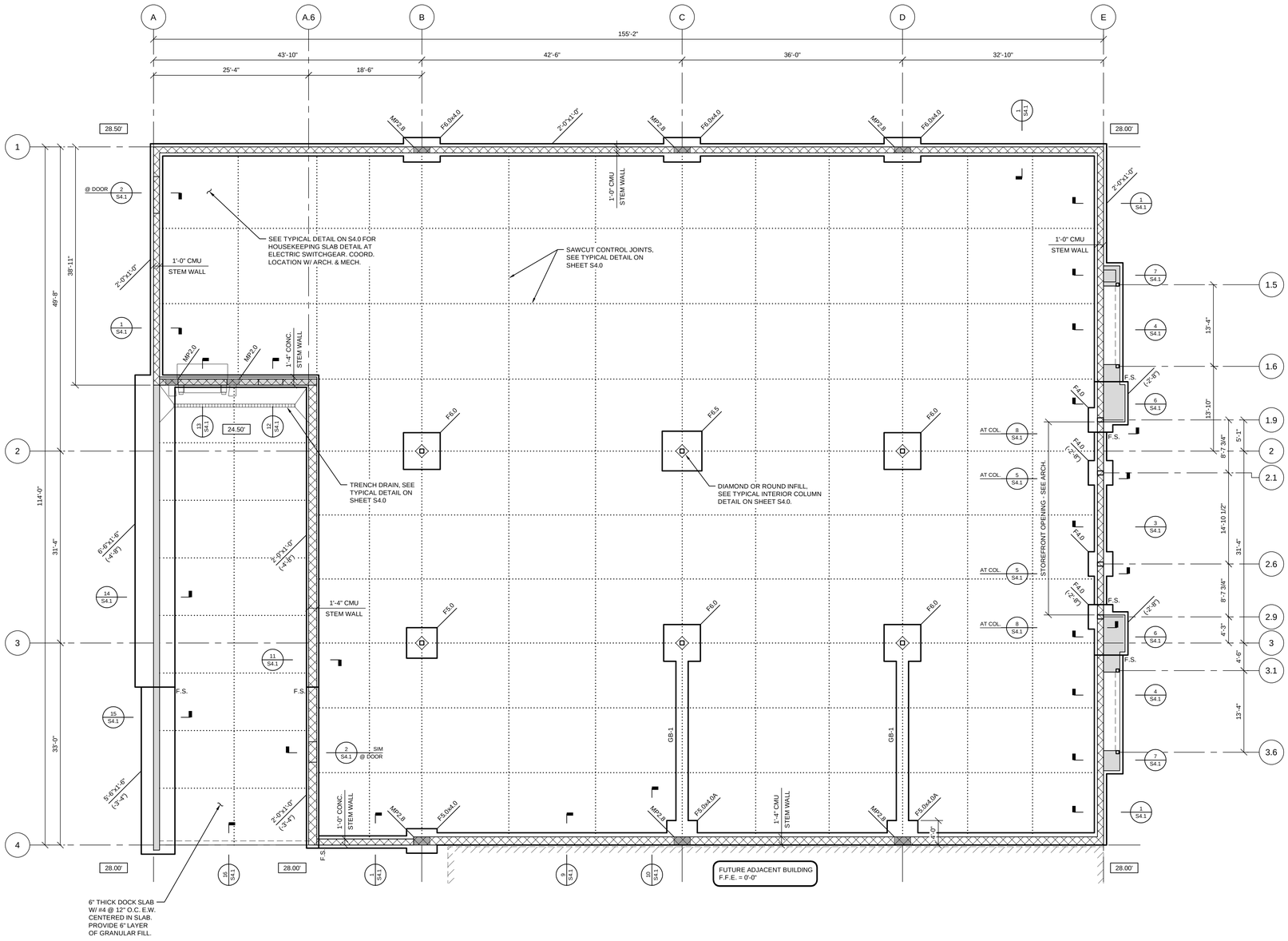


FOUNDATION PLAN

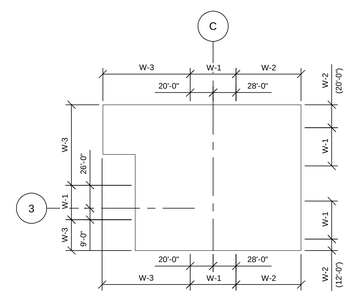
1/8" = 1'-0"

NOTES:

- FLOOR CONSTRUCTION: 4" CONCRETE SLAB ON GRADE WITH ONE LAYER OF 6x6-W2.1xW2.1 W.W.F. PROVIDE 10 MIL VAPOR BARRIER AND 6" LAYER OF GRANULAR FILL BELOW SLAB (UNO).
- TOP OF SLAB ELEVATION = 0'-0", PROJECT DATUM ELEVATION = 28.50' USGS.
- ELEVATIONS NOTED THUS (+X'-X) ARE TO TOP OF FOOTING REFERENCED FROM SLAB ON GRADE ELEVATION (UNO).
- TOP OF INTERIOR FOOTING ELEVATION = (-1'-0") (UNO).
- TOP OF EXTERIOR FOOTING ELEVATION = (-1'-4") (UNO).
- CONTINUOUS FOOTINGS ARE MARKED THUS: WIDTH x DEPTH / (TOP OF FTG. EL.)
- PROVIDE (2) #4x3'-0" LONG AT ALL REENTRANT CORNERS.
- SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND FINISH OF SLAB ON GRADE AND ANY FLOOR DEPRESSIONS, UNDERFLOOR CONDUITS, DRAINS, ETC.
- SEE SHEETS S1.0 & S1.1 FOR GENERAL NOTES.
- SEE SHEET S4.0 FOR TYPICAL DETAILS.
- MP-X DENOTES MASONRY PIER. SEE SHEET S4.0. PROVIDE DOWELS AND EXTEND REINFORCING FULL HEIGHT OF WALL.
- GB-1 DENOTES 24"x24" CAST-IN-PLACE CONCRETE GRADE BEAM CAST AGAINST EARTH W/(3) #6 CONT. TOP & BOT. SEE SECTIONS FOR STIRRUP SPACING.
- FOUNDATIONS ADJACENT TO EXISTING STRUCTURES SHALL BEAR ON UNDISTURBED SOIL AT THE SAME ELEVATION OF THE EXISTING FOOTINGS.
- XXX.XX' DENOTES PRESUMED FINISH GRADE AT LOCATION SHOWN. VERIFY VALUE WITH FINAL SITE PLAN AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- (E) DENOTES EXISTING CONSTRUCTION.

COLUMN FOOTING SCHEDULE 2500 PSF

MARK	FOOTING SIZE LENGTH x WIDTH x DEPTH	REINFORCING
F4.0	4'-0"x4'-0"x1'-0"	(4) - #5 E.W. BOT.
F5.0	5'-0"x5'-0"x2'-0"	(5) - #5 E.W. TOP & BOT.
F6.0	6'-0"x6'-0"x2'-0"	(6) - #5 E.W. TOP & BOT.
F6.5	6'-6"x6'-6"x2'-0"	(8) - #5 E.W. TOP & BOT.
F5.0x4.0	5'-0"x4'-0"x1'-2"	(5) - #5 S.W. BOT. (4) - #5 L.W. BOT.
F5.0x4.0A	5'-0"x4'-0"x2'-0"	(5) - #5 S.W. BOT. (4) - #5 L.W. BOT.
F6.0x4.0	6'-0"x4'-0"x1'-2"	(6) - #5 S.W. BOT. (4) - #5 L.W. BOT.



MASONRY WALL REINFORCING PLAN

NTS

- W-1 REINFORCED WITH (2) #5 @ 16" O.C.
- W-2 REINFORCED WITH (2) #5 @ 24" O.C.
- W-3 REINFORCED WITH (2) #5 @ 32" O.C.

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
FOUNDATION PLAN

SHEET NUMBER:
S2.0

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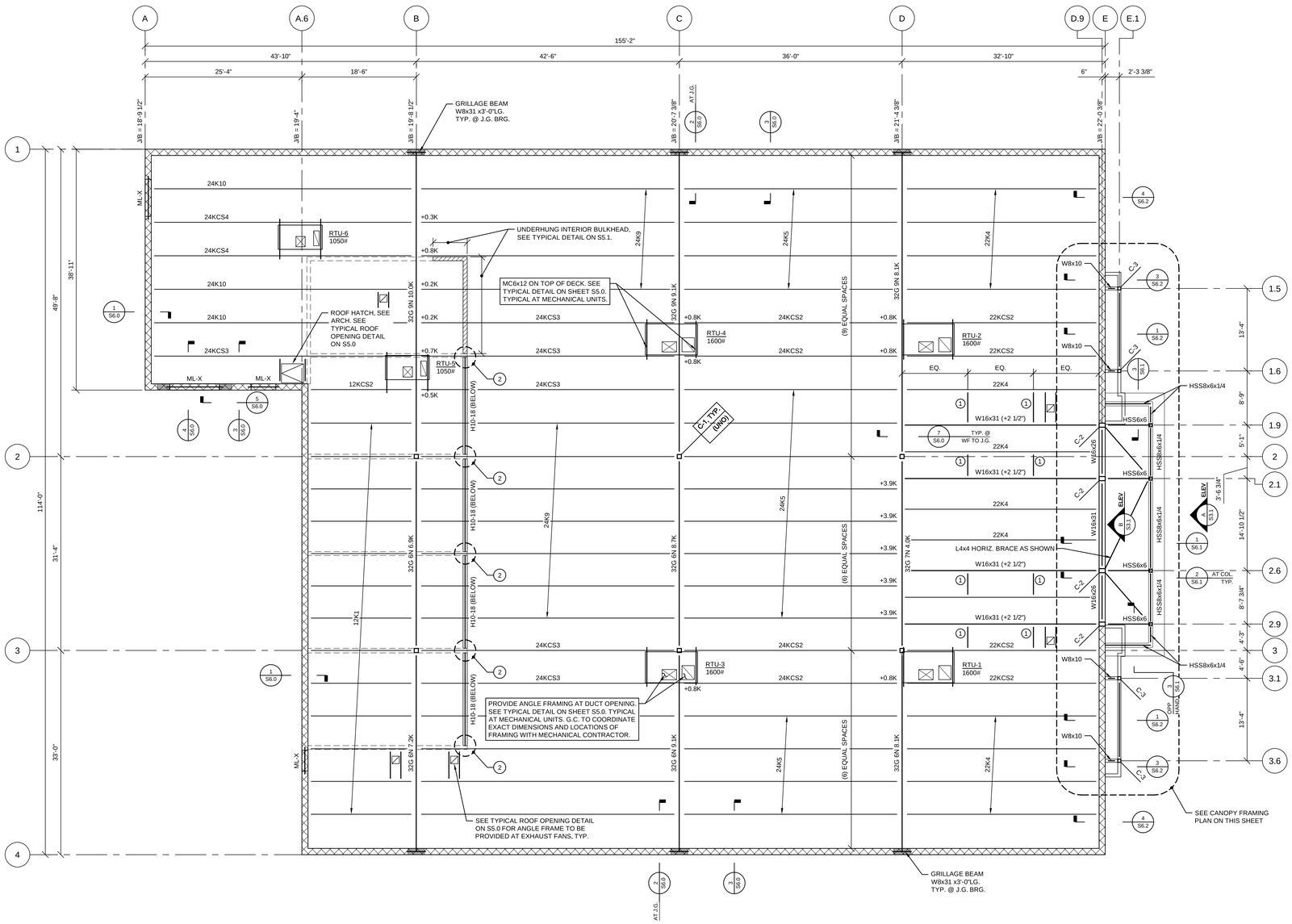


ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:

- ROOF CONSTRUCTION: 1 1/2"x22GA. WIDE RIB DECK (TYPE B) WELDED TO SUPPORT STEEL, SEE TYPICAL ROOF DECK CONNECTION SCHEDULE. MINIMUM 3-SPAN CONDITION (UNO).
- J/BRG. = ROOF JOIST BEARING ELEVATION REFERENCED FROM SLAB ON GRADE ELEVATION OF 0'-0".
- ROOF BEAM ELEVATION NOTED THUS (±) INDICATE TOP OF BEAM ABOVE OR BELOW J/BRG. ELEVATION NOTED.
- PROVIDE JOIST BRIDGING IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (UNO). SEE TYPICAL DETAIL ON S5.0.
- PROVIDE ADDITIONAL ROW OF BRIDGING AT 1st PANEL POINT OF ALL JOISTS SUBJECTED TO NET UPLIFT LOADING-SEE GENERAL NOTES.
- COORDINATE ALL OPENINGS AND EDGE CONDITIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE SHEET S6.0 FOR TYPICAL OPENING DETAIL.
- SEE SHEET S1.0, S1.1, AND S1.2 FOR GENERAL NOTES.
- SEE SHEET S5.0 AND S5.1 FOR TYPICAL DETAILS.
- ML-X DENOTES MASONRY LINTEL. SEE SHEET S5.0 FOR MASONRY LINTEL SCHEDULE.
- HX-X DENOTES BUILT-UP BOX HEADER. SEE SCHEDULE ON S5.1.
- JOISTS ARE DESIGNED TO SUPPORT EQUIPMENT INDICATED ON PLAN. IF EQUIPMENT LOCATION VARIES OR WEIGHT EXCEEDS THAT NOTED THEN NOTIFY ENGINEER.
- (1) DENOTES BEAM BOTTOM FLANGE BRACE. SEE TYPICAL DETAIL ON S5.0.
- (2) SEE COLD FORMED HEADER SCHEDULE ON S5.1 FOR JAMB STUD TO SUPPORT BOX HEADERS BELOW.

COLUMN SCHEDULE				
MARK	COLUMN SIZE	BASE PLATE	TYPE	ANCHOR RODS
C-1	HSS8x8x1/4	PL3/4"x16"x1'-4"	I	(4) 1"Ø
C-2	HSS12x8x1/2	PL3/4"x1'-4"x1'-6"	I	(4) 1"Ø
C-3	HSS6x6x1/2	PL3/4"x12"x1'-0"	III	(4) 3/4"Ø

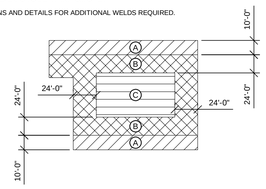
- SEE SHEET S5.0 FOR TYPICAL COLUMN BASE PLATES.
- SEE SHEET S4.0 FOR TYPICAL ANCHOR ROD DETAIL.

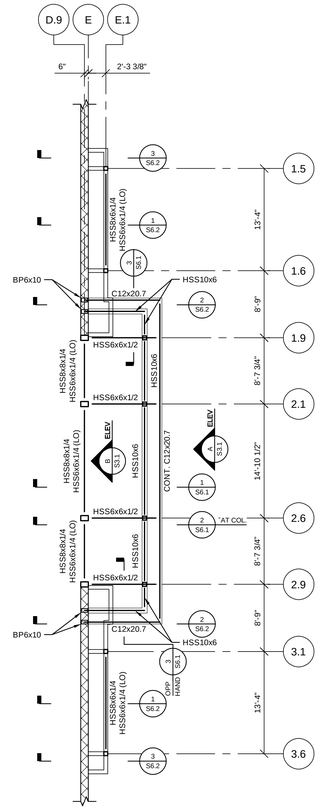
BEARING PLATE SCHEDULE	
MARK	PLATE SIZE
BP6x10	PL1/2"x6"x0'-10" W/(2) 1/2"Ø x6" HD'D STUDS

TYPICAL ROOF DECK CONNECTIONS SCHEDULE			
MARK	ATTACHMENT		
	PERPENDICULAR TO SUPPORT	PARALLEL TO SUPPORT	SEAMS
A	PUDDLE WELD AT 12" O.C. (36/7 PATTERN)	PUDDLE WELD AT 6" O.C.	(7) #10 TEK SCREW PER SPAN
B	PUDDLE WELD AT 6" O.C. (36/7 PATTERN)	PUDDLE WELD AT 6" O.C.	(5) #10 TEK SCREWS PER SPAN
C	PUDDLE WELD AT 6" O.C. (36/7 PATTERN)	PUDDLE WELD AT 6" O.C.	(1) #10 TEK SCREWS PER SPAN

NOTES:

- ALL PUDDLE WELDS TO BE 5/8"Ø FUSION TYPE (UNO).
- WELDS TO BE MADE FOLLOWING AWS D1.3 SPECIFICATIONS BY QUALIFIED WELDING OPERATORS.
- ALL DECK END LAPS TO BE A MINIMUM OF 2".
- SEE SECTIONS AND DETAILS FOR ADDITIONAL WELDS REQUIRED.





VESTIBULE & CANOPY FRAMING PLAN

1/8"=1'-0"

NOTES:

- CANOPY CONSTRUCTION: 1 1/2" 22GA. WIDE RIB DECK (TYPE B) WELDED TO SUPPORT STEEL. SEE TYPICAL ROOF DECK CONNECTION SCHEDULE TYPE C ON THIS SHEET. MINIMUM 3-SPAN CONDITION (UNO).

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
ROOF FRAMING PLAN

SHEET NUMBER:
S3.0

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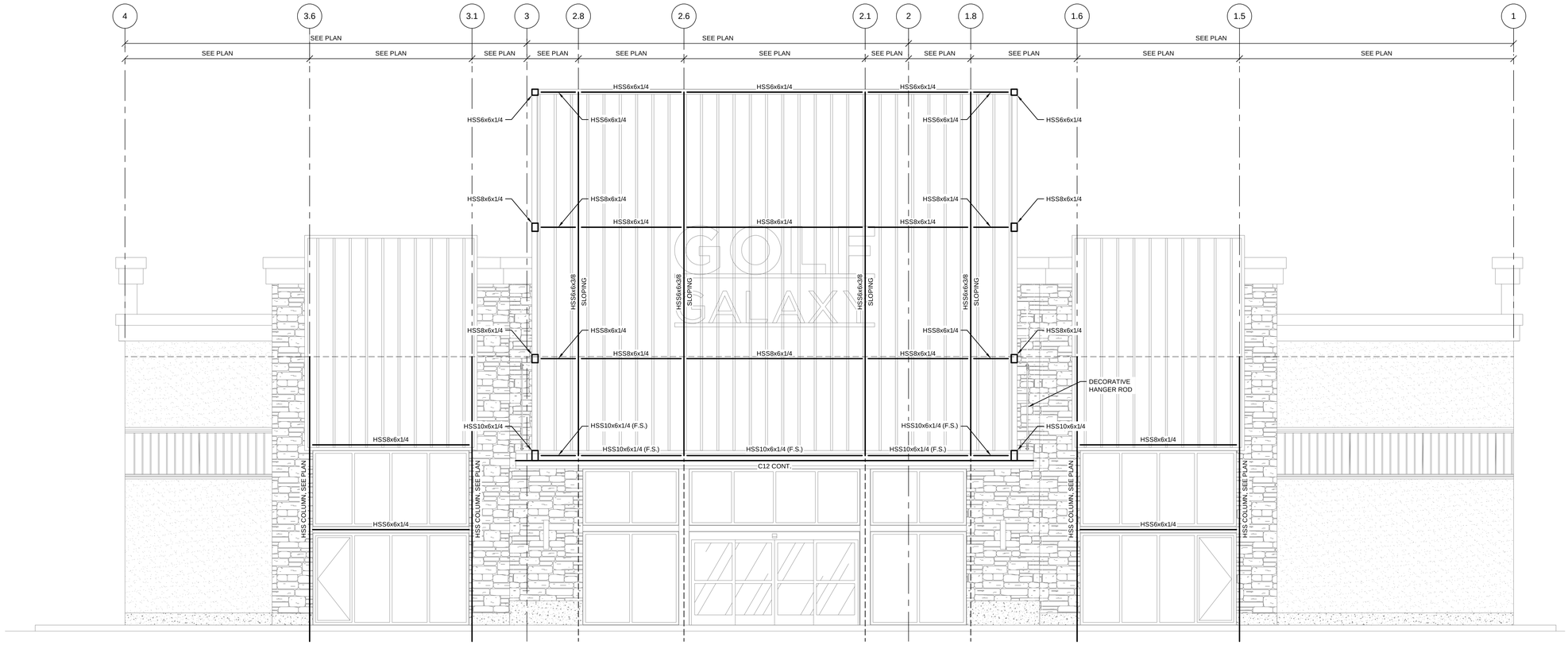
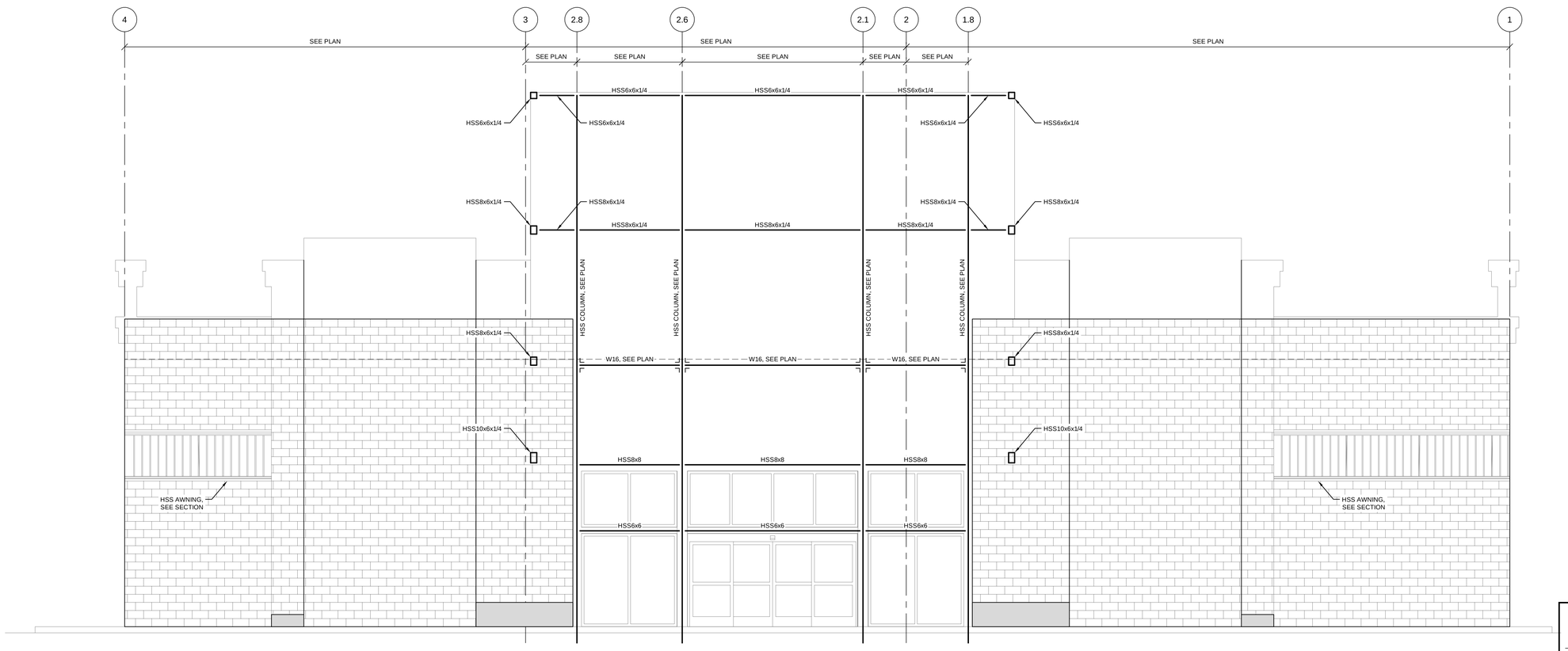


ELEVATION A
1/4" = 1'-0"



ELEVATION B
1/4" = 1'-0"

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GOLF GALAXY

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PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
STOREFRONT ELEVATIONS

SHEET NUMBER:
S3.1

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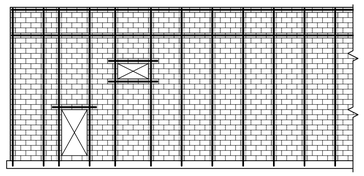


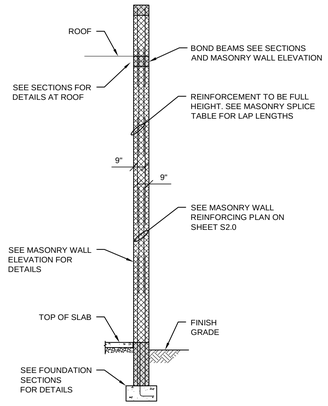
INTERMEDIATE REINFORCED MASONRY WALL ELEVATION

NOTES:

VERTICAL REINFORCING:
- PROVIDE TYPICAL REINFORCING SHOWN IN TYPICAL WALL SECTION.
- ALL VERTICAL BARS SPECIFIED BELOW ARE #5 BARS UNO.
- PROVIDE (2) BARS FULL HEIGHT AT EACH SIDE OF WALL OPENING UNLESS SHOWN ON PLAN REINFORCING TO CLEAR END OF LINTEL.
- PROVIDE (1) BAR AT EACH CORNER.
- PROVIDE (1) BAR AT EACH SIDE OF A CONTROL JOINT.
- PROVIDE (1) BAR WITHIN 8" OF ENDS OF WALLS.
- ALL VERTICAL BARS SHALL HAVE DOWELS TO MATCH.

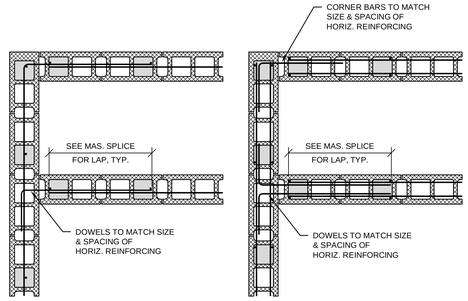
HORIZONTAL REINFORCING:
- PROVIDE HORIZONTAL JOINT REINFORCING GALVANIZED 9 GA. SIDE AND CROSS RODS SPACED @ 16" O.C. VERTICALLY. LADDER TYPE.
- PROVIDE (2) #4 AT THE TOP & BOTTOM OF ALL OPENINGS 1'-4" OR LARGER. EXTEND 24" OR 40db WHICHEVER IS GREATER PAST THE EDGE OF OPENING.

GENERAL:
- LAP LENGTHS SHALL COMPLY W/MASONRY SPLICE TABLE.
- REINFORCING SHALL BE COORDINATED W/ARCHITECTURAL ELEVATIONS, PLANS & DETAILS.
- MASONRY PIERS SHALL BE SIZED AND LOCATED AS DETAILED ON THE PLANS.
- FOR CONDITIONS AT BEAM BEARINGS AND LINTELS SEE TYPICAL DETAILS.
- PROVIDE BOND BEAMS AS SHOWN IN SECTIONS.



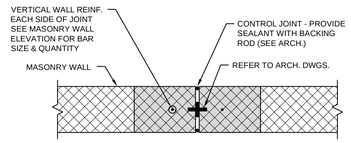
TYPICAL WALL SECTION

MASONRY SPLICE TABLE	
REINFORCING SIZE	LAP SPLICE
#3	18"
#4	24"
#5	30"
#6	36"
#7	42"



SINGLE LAYER REINFORCING — TWO LAYER REINFORCING

TYPICAL MASONRY WALL REINF. DETAILS

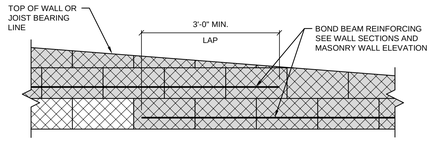


DO NOT CONTINUE CONTROL JOINT THRU BOND BEAM AT ROOF. SCORE MASONRY AT ROOF BOND BEAM. REINFORCEMENT IN ROOF BOND BEAM TO BE CONTINUOUS ACROSS SCORED JOINT.

COORDINATE LOCATIONS WITH ARCHITECTURAL ELEVATIONS

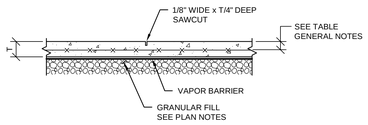
MASONRY CONTROL JOINT

SPACE @ 25'-0" O.C. MAX.



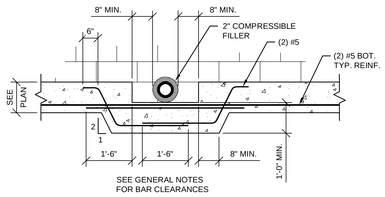
TYPICAL BOND BEAM LAP AT CHANGE IN BOND BEAM ELEVATION

NOTE: PROVIDE MINIMUM 8" DEEP BOND BEAM

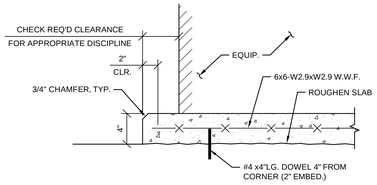


CONTROL JOINT

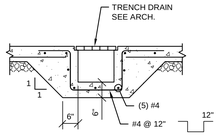
(SEE PLAN FOR LOCATIONS)



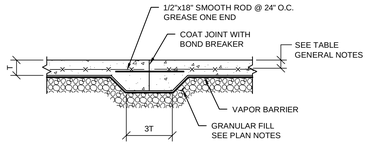
TYPICAL DETAIL AT MECHANICAL LINE PENETRATION



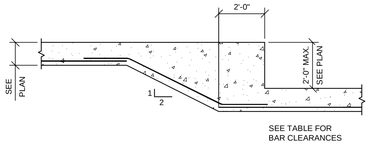
TYPICAL HOUSEKEEPING SLAB DETAIL



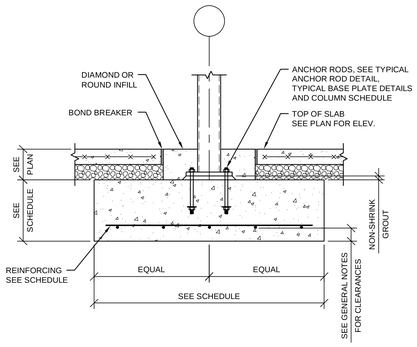
TYPICAL TRENCH DRAIN DETAIL



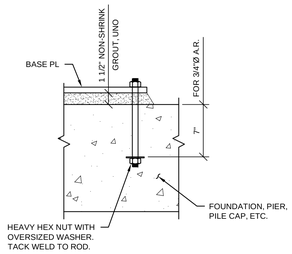
CONSTRUCTION JOINT



FOOTING STEP DETAIL



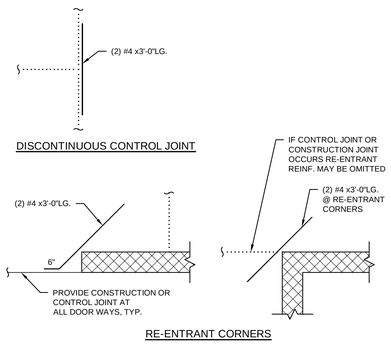
TYPICAL INTERIOR COLUMN FOOTING



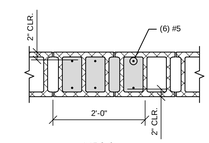
TYPICAL ANCHOR ROD DETAIL

(A36 ANCHOR RODS)

- CONTRACTOR MAY USE LEVELING NUTS OR LEVELING PLATES AT CONTRACTORS OPTION.
- AN INCREASE IN GROUT THICKNESS FOR LARGE BASE PLATES IS PERMISSABLE IF APPROVED BY THE ENGINEER. COORDINATION DUE TO INCREASE IN GROUT THICKNESS FOR OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.



TYPICAL RE-ENTRANT AND DISCONTINUOUS CONTROL JOINT SLAB REINFORCING



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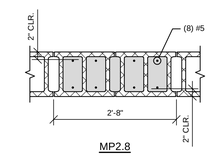

MP2.8

TYPICAL MASONRY PIERS

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
FOUNDATION TYPICAL DETAILS

SHEET NUMBER:
S4.0

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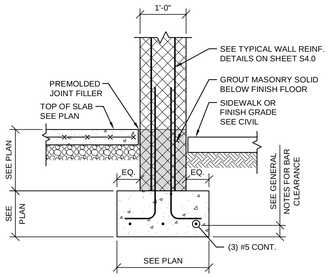

SECTION 1
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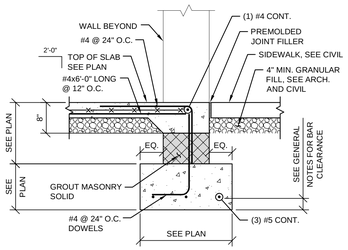

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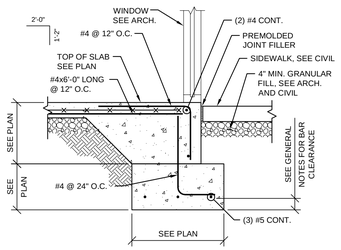

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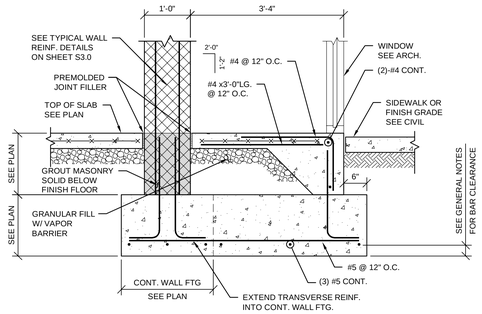

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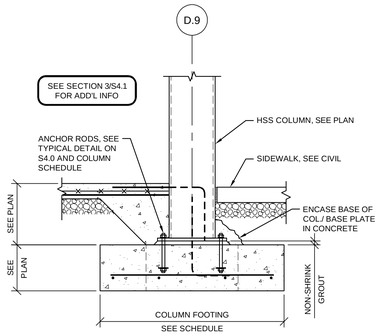

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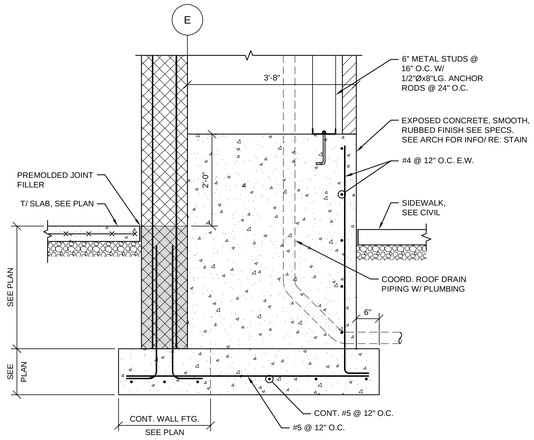

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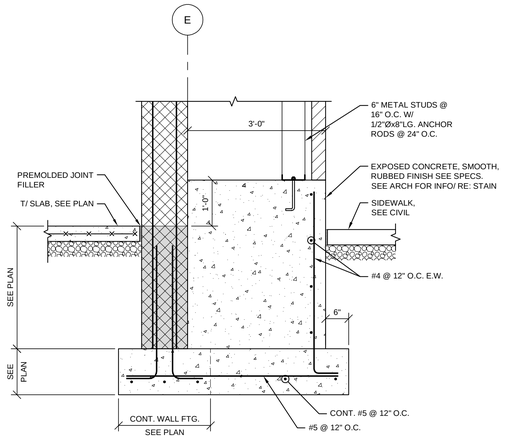

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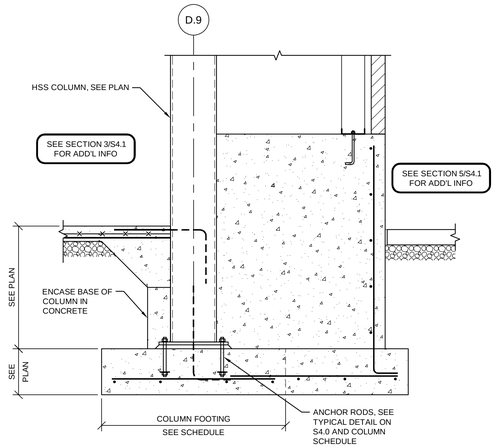

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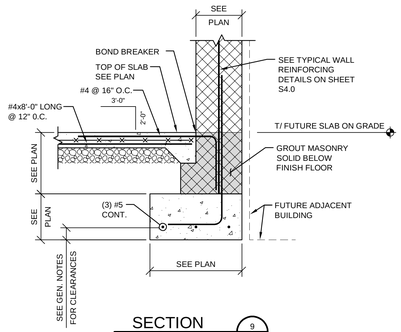

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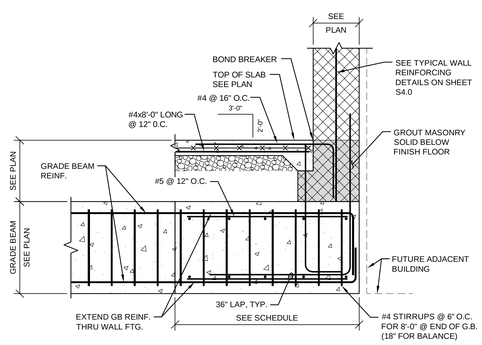

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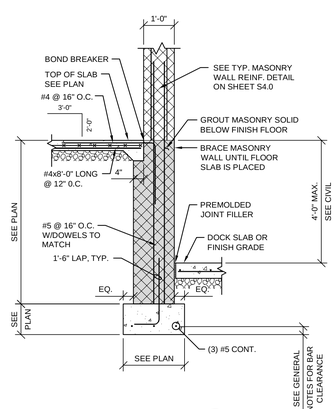

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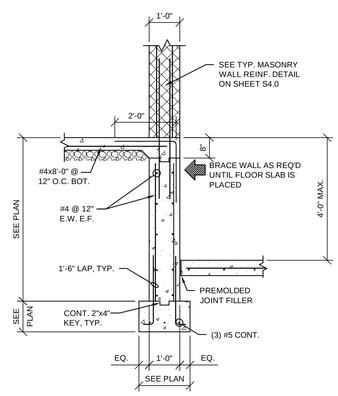

*ALL ANGLES TO BE GALVANIZED

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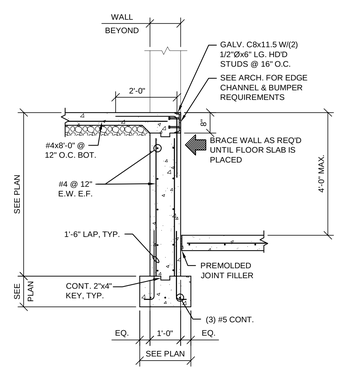

*ALL ANGLES TO BE GALVANIZED

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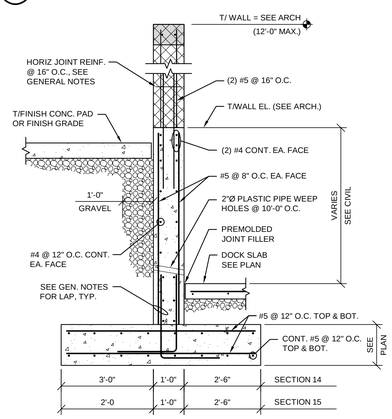

SECTION 14 15
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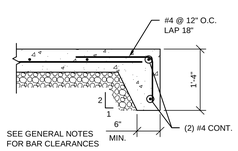

SECTION 16
3/4" = 1'-0"

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GOLF GALAXY

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PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
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DRAWING:
SECTIONS AND DETAILS

SHEET NUMBER:
S4.1

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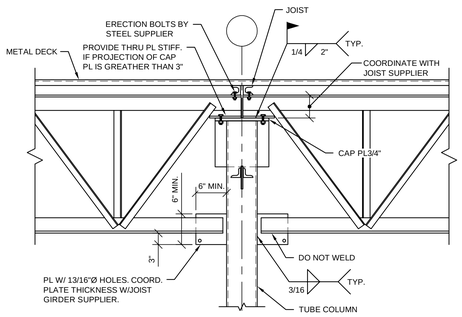
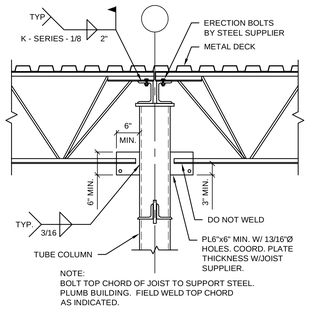
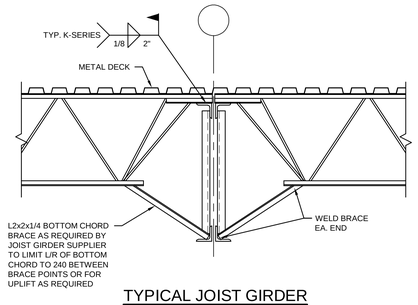


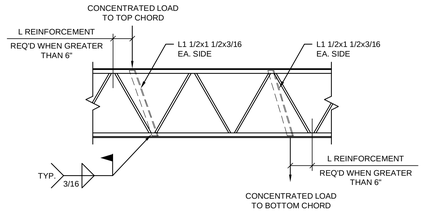
TYPICAL JOIST GIRDER TO COLUMN CONNECTION DETAIL - ROOF



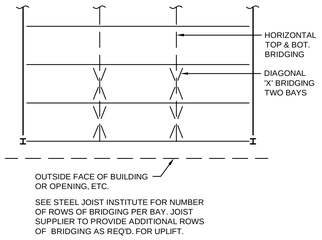
TYPICAL JOIST TO COLUMN CONNECTION DETAIL - ROOF

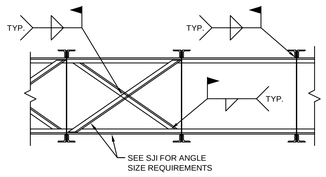


TYPICAL JOIST GIRDER BOTTOM CHORD BRACE

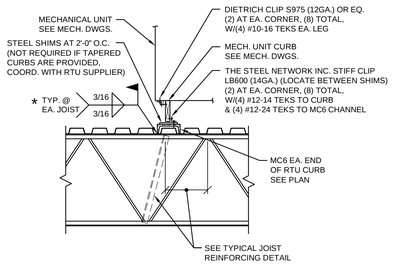


TYPICAL JOIST REINFORCING DETAIL



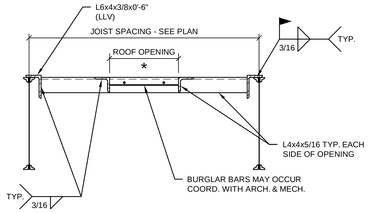


TYPICAL BRIDGING DETAILS



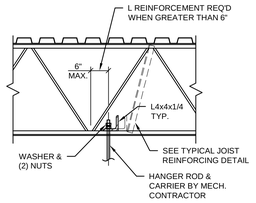
★ USE CAUTION WHEN WELDING AS NOT TO DAMAGE JOIST.

TYPICAL ROOFTOP MECHANICAL UNIT SUPPORTS

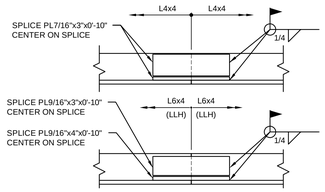


★ FOR ALL ROOF OPENINGS 12" OR GREATER. COORD. OPENING SIZES AND LOCATIONS WITH ARCHITECT & MECHANICAL CONTRACTOR.

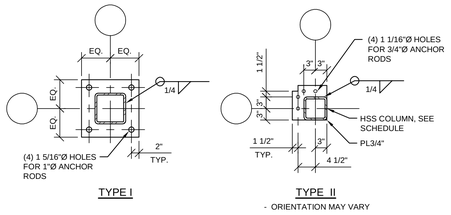
TYPICAL ROOF OPENING DETAIL



PIPE HANGER CONN. DETAIL



ANGLE CHORD SPLICE DETAIL

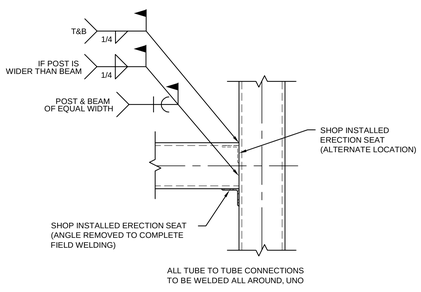


TYPE I

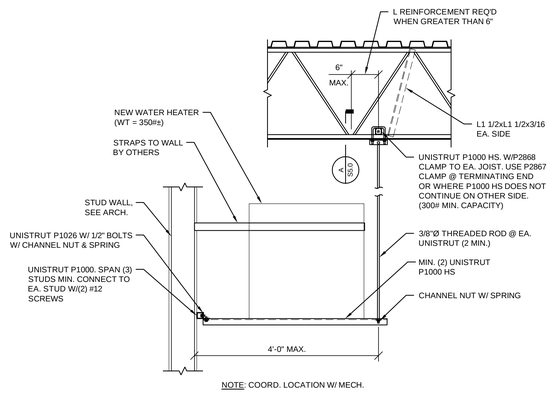
TYPE II

- ORIENTATION MAY VARY

TYPICAL COLUMN BASE PLATE DETAILS

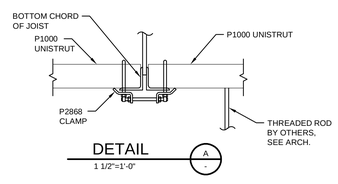


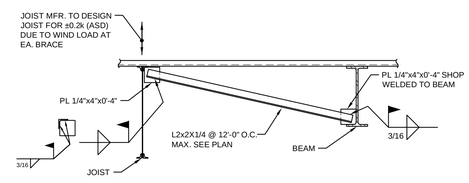
TYPICAL TUBE TO TUBE CONNECTION



NOTE: COORD. LOCATION W/ MECH.

TYPICAL WATER HEATER SUPPORT DETAIL





TYPICAL BOTTOM FLANGE BEAM BRACE DETAIL

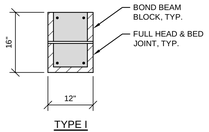
- INDICATED BY 1 ON PLAN ON SHEET S3.0

MASONRY LINTEL SCHEDULE

SIMPLE SPAN MASONRY LINTEL SCHEDULE				
WALL WIDTH	LINTEL DEPTH	LINTEL TYPE	MAX. CLR. SPAN	TOP & BOT. REINF.
12"	16"	I	UP TO 8'-0"	(2)-#4

NOTES:

1. ALL LINTEL BEAMS SHALL HAVE A MINIMUM END BEARING OF 8" OR 1" PER FOOT OF CLEAR SPAN, WHICHEVER IS LARGER.
2. ALL LINTEL BEAMS SHALL HAVE A MINIMUM OF 16" OF SOLID MASONRY UNDER BEARING ENDS FOR LENGTH STATED IN NOTE 1.
3. CONTROL JOINTS SHALL NOT BE LOCATED WITHIN WIDTH OF THE OPENING PLUS END BEARING.
4. ALL REINFORCING SHALL BE CONTINOUS AND EXTEND TO THE END OF THE LINTEL BEAM.
5. FILL LINTEL BEAMS WITH 3,000 PSI CONCRETE.
6. SPAN SHALL BE CONSIDERED AS THE CLEAR MASONRY OPENING.



TYPE I

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GOLF GALAXY

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DRAWING:
SECTIONS AND DETAILS

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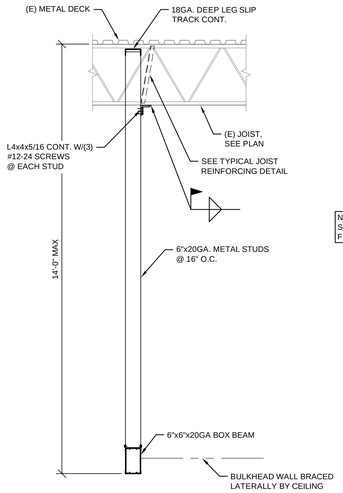
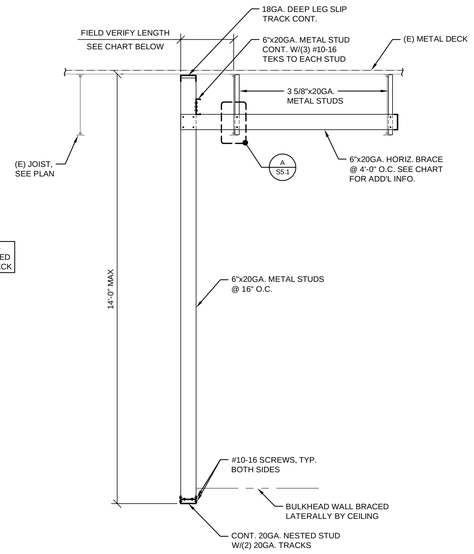


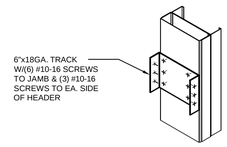
PERPENDICULAR TO JOIST

NO LT. GA. FRAMING SHALL BE SUSPENDED FROM ANY ROOF DECK

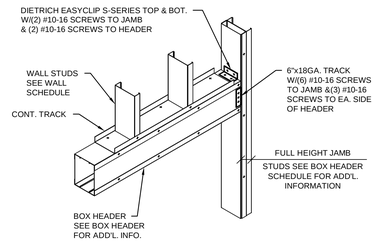


PARALLEL TO JOIST

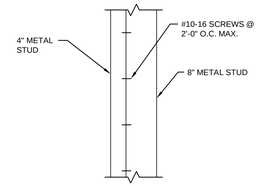
UNDERHUNG BULKHEAD SUPPORT DETAIL



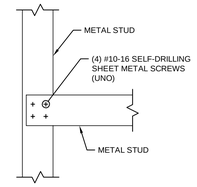
HEADER ATTACHMENT



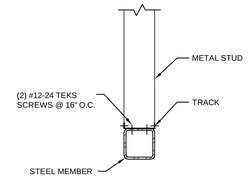
TYPICAL BOX HEADER TO JAMB CONNECTION



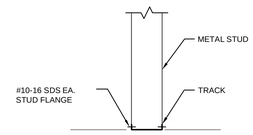
TYPICAL METAL STUD TO METAL STUD CONNECTION



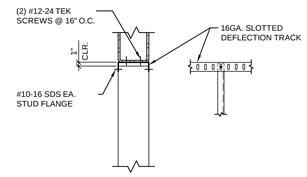
TYPICAL METAL STUD CONNECTION



TYPICAL TRACK CONNECTION TO STRUCTURAL STEEL

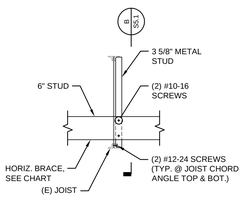


TYPICAL CONNECTION TO METAL STUD TRACK

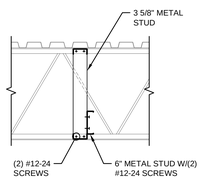


TYPICAL DEFLECTION TRACK

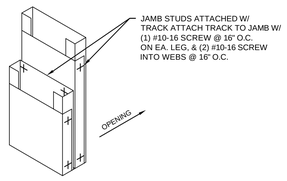
TYPICAL METAL STUD CONNECTION DETAILS



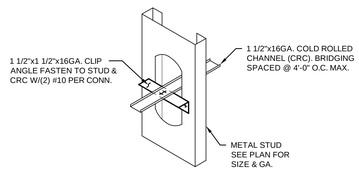
DETAIL A
3/4" = 1'-0"



DETAIL B
3/4" = 1'-0"

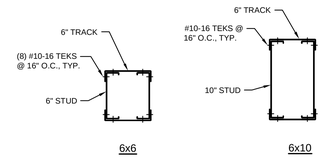


TYPICAL JAMB STUD DETAIL



TYPICAL WALL BRIDGING DETAIL

COLD FORMED 6" HEADER SCHEDULE				
MARK	HEADER SIZE WIDTH x DEPTH	METAL STUDS	TOP & BOT. TRACK	# OF JAMB STUDS AT EACH END OF HEADER
H6-20	6"x6"	(2) 6"x20GA.	6"x20GA.	(2)
H10-18	6"x10"	(2) 10"x18GA.	6"x18GA.	(2)



6x6 6x10

COLD FORMED HEADER PROFILES

Thorson Baker + Associates
CONSULTING ENGINEERS
3030 West Streetsboro Road (330) 659-6688 Ph.
Richfield, Ohio 44286 (330) 659-6675 Fax

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GOLF GALAXY

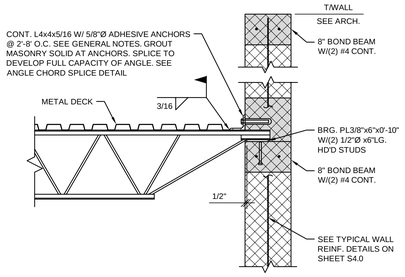
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

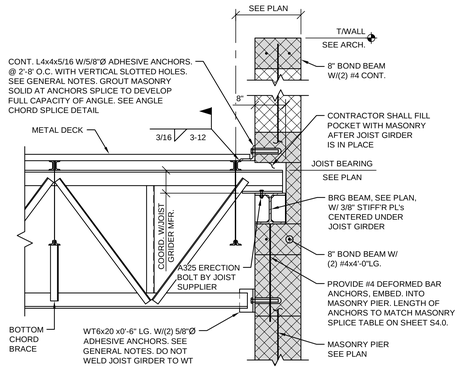
DRAWING:
SECTIONS AND DETAILS

SHEET NUMBER:
S5.1

\\tbs-projects\5\2021\2021-0155\Cad-Revit - TBA\Structural\2021-0155 S5.1.dwg, 3/25/2021 11:05:56 AM

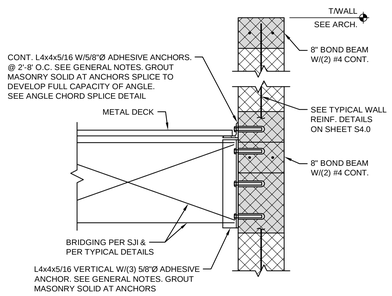


SECTION 1 / -
3/4" = 1'-0"

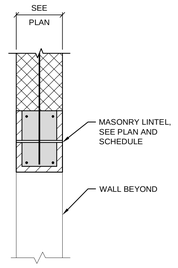


JOIST GIRDER BEARING DETAIL

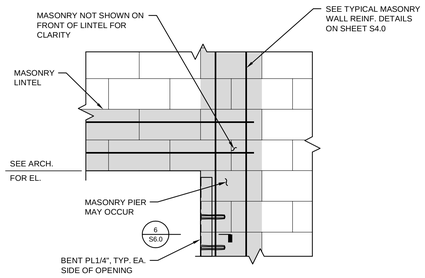
SECTION 2 / -
3/4" = 1'-0"



SECTION 3 / -
3/4" = 1'-0"



SECTION 4 / -
3/4" = 1'-0"



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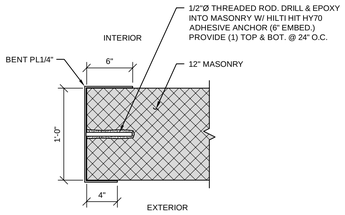
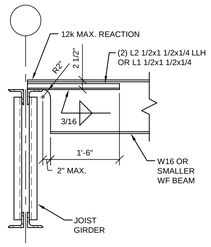
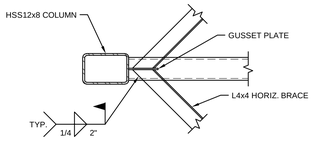
3/4" = 1'-0"



SECTION 6 / -
1 1/2" = 1'-0"



SECTION 7 / -
3/4" = 1'-0"



SECTION 8 / -
3/4" = 1'-0"

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
SECTIONS AND DETAILS

SHEET NUMBER:
S6.0

Thorson Baker + Associates
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3030 West Streetsboro Road
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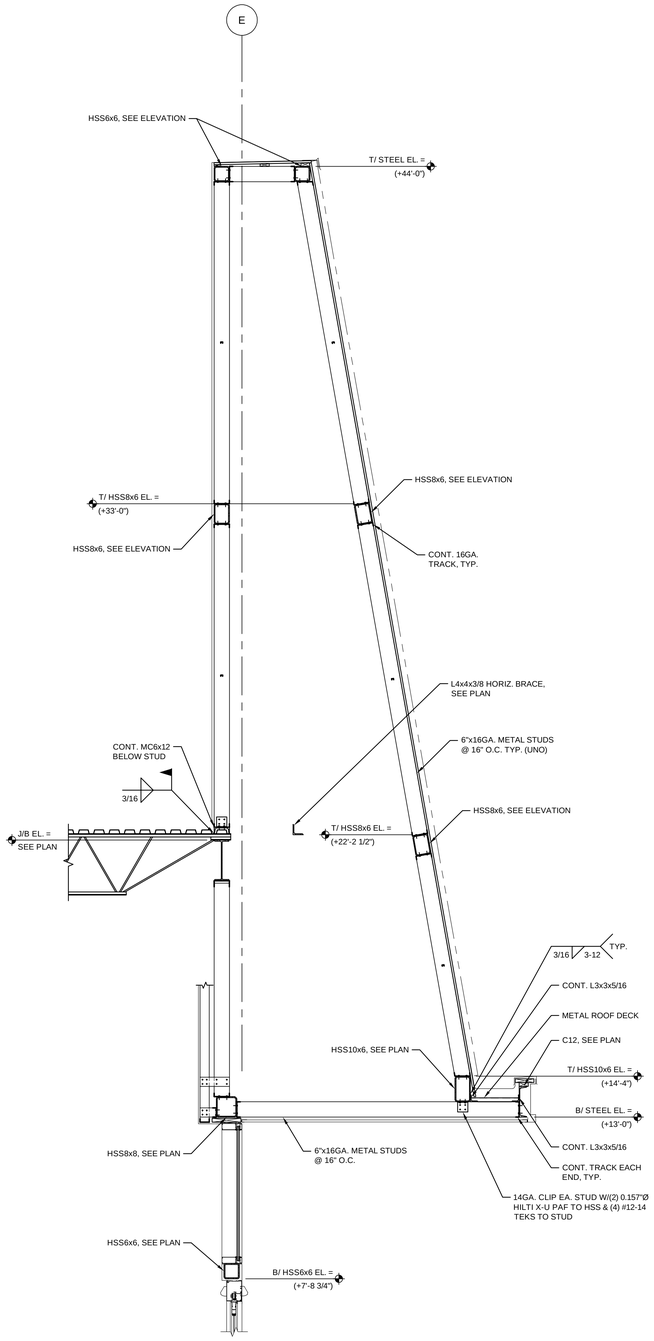
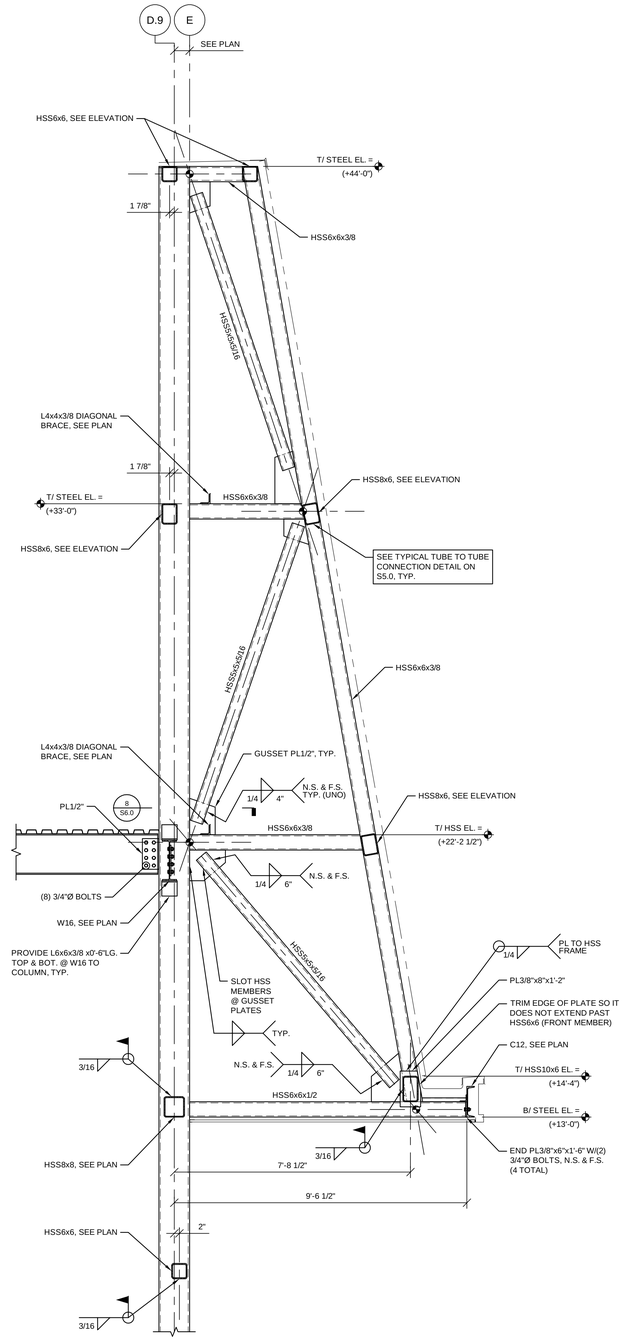
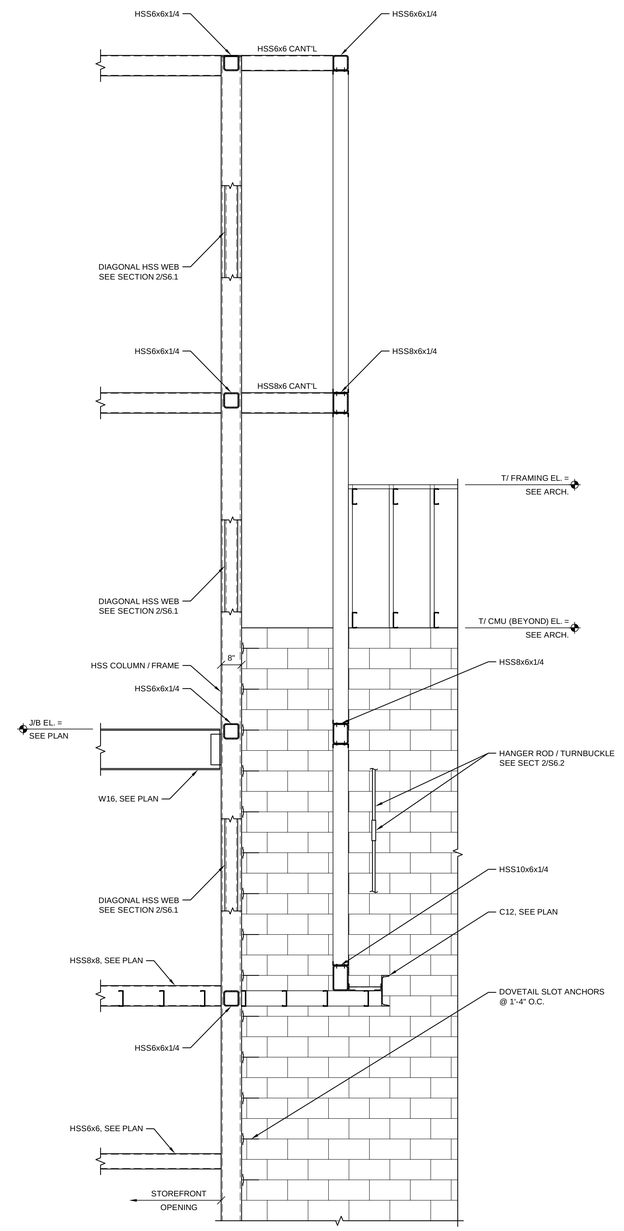
\\tba-projects05\2021\2021-0155\Cad-Revit - TBA\Structural\2021-0155 S6.0.dwg, 3/26/2021 12:09:47 PM



SECTION 1 / -
1/2" = 1'-0"



SECTION 2 / -
1/2" = 1'-0"



SECTION 3 / -
1/2" = 1'-0"

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GOLF GALAXY

GOLF GALAXY

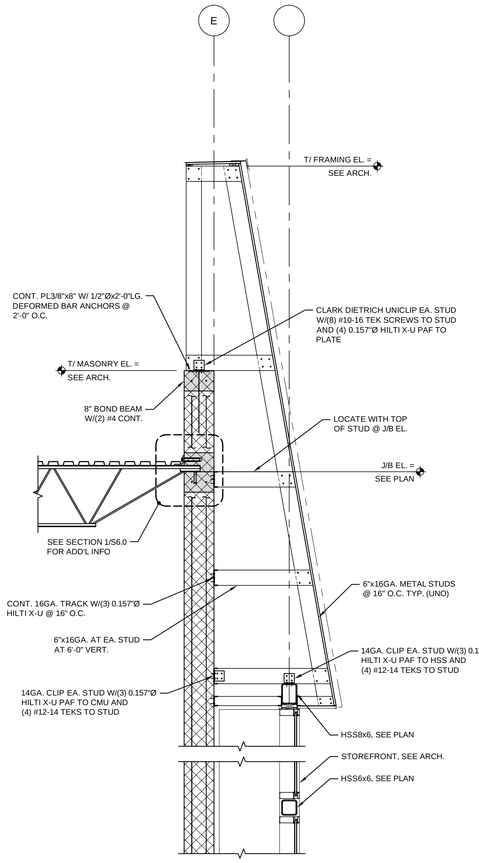
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

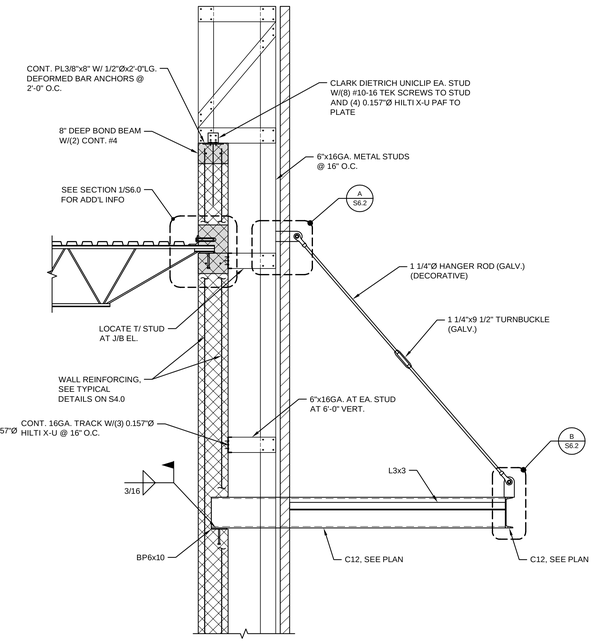
DRAWING:
SECTIONS AND DETAILS

SHEET NUMBER:
S6.1

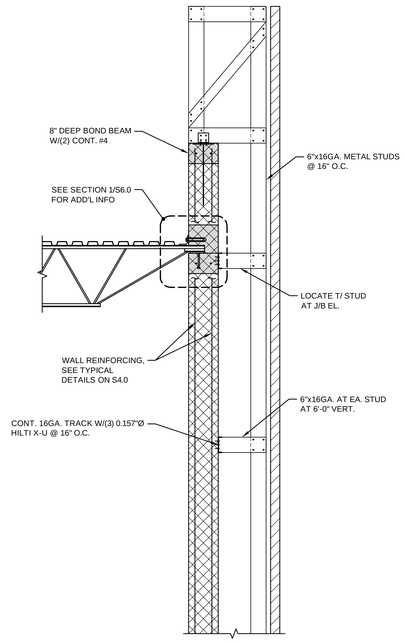
\\tbs-projects\5\2021\2021-0155\Cad-Revit - TBA\Structural\2021-0155 S6.1.dwg, 3/26/2021 12:11:28 PM



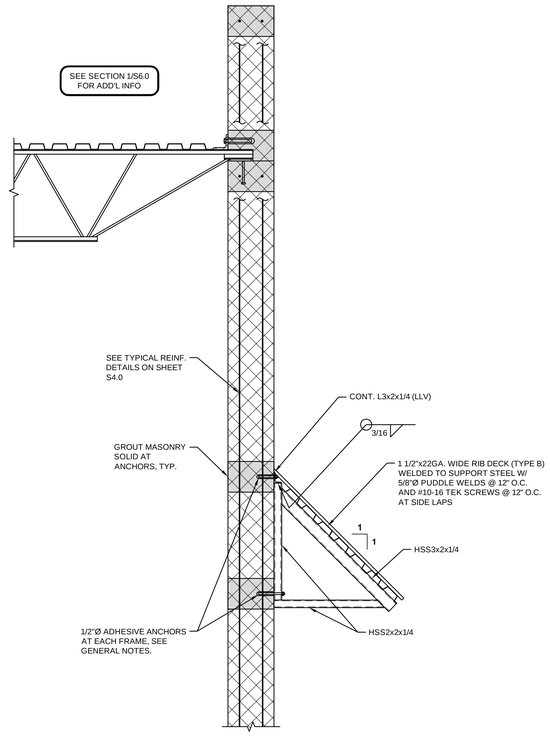
SECTION 1 / -
1/2" = 1'-0"



SECTION 2 / -
1/2" = 1'-0"

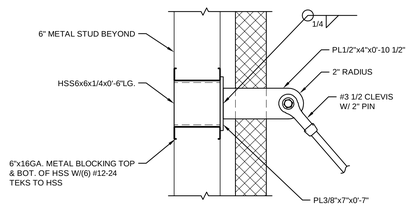


SECTION 3 / -
1/2" = 1'-0"

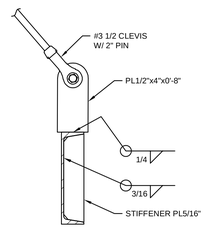


SECTION 4 / -
3/4" = 1'-0"

- SPACE AWNING HSS FRAME @ 2'-8" O.C. MAX.
- SEE TYPICAL TUBE TO TUBE CONNECTION DETAIL ON SHEET S5.0



DETAIL A / -
1 1/2"=1'-0"



DETAIL B / -
1 1/2"=1'-0"

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
SECTIONS AND DETAILS

SHEET NUMBER:
S6.2

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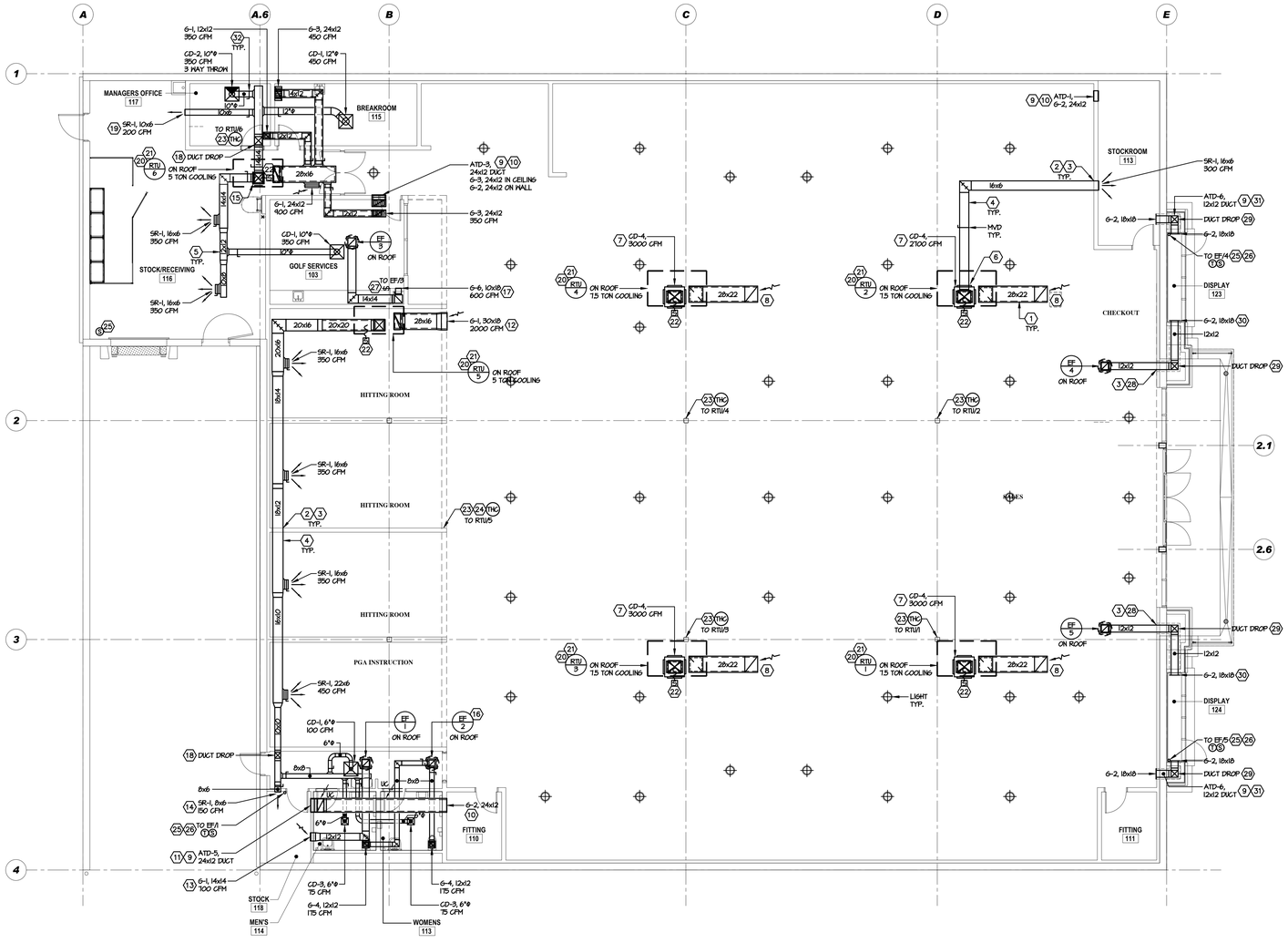

1 H.V.A.C. FLOOR PLAN

SCALE 1/8" = 1'-0"

H.V.A.C. CODED NOTES:

1. DASHED LINE INDICATES 1" ACOUSTIC LINING FOR SUPPLY AND RETURN AIR DUCTWORK. DUCT DIMENSIONS ARE EXTERIOR AND INCLUDE LINING. TYPICAL.
2. PROVIDE 2" TRIM FLANGE AROUND FULL PERIMETER OF EXPOSED DUCT PENETRATION ON BOTH SIDES OF WALL PENETRATIONS. CAULK FULL PERIMETER OF TRIM FLANGES AIR TIGHT. TYPICAL. TRIM FLANGE NOT REQUIRED IN LOCATIONS NOT VISIBLE AND ON SIDE OF WALL WHERE A SUPPLY REGISTER OR RETURN GRILLE IS INSTALLED.
3. DUCT PENETRATION SHALL BE ABOVE PAINT BREAK LINE.
4. ALL DUCTWORK ON SALES FLOOR SHALL BE DESIGNED AND INSTALLED INSIDE JOIST WEBBING TO MAINTAIN MAXIMUM CLEARANCE. IF THIS IS NOT ACHIEVABLE THEN ALL DUCTWORK SHALL BE DESIGNED AND INSTALLED TIGHT TO THE STRUCTURE ABOVE TO MAINTAIN MAXIMUM CLEARANCE. DUCT PENETRATIONS OF WALLS SHALL NOT BE INSTALLED BELOW THE PAINT BREAK LINE. IF THE CONTRACTOR IS IN DOUBT, SUBMIT AN RFI TO THE ARCHITECT OF RECORD FOR CLARIFICATION. COORDINATE DUCT LAYOUT WITH ALL OTHER TRADES. TYPICAL.
5. ALL DUCTWORK ON STOCK ROOM FLOOR SHALL BE DESIGNED AND INSTALLED INSIDE JOIST WEBBING TO MAINTAIN MAXIMUM CLEARANCE. IF THIS IS NOT ACHIEVABLE THEN ALL DUCTWORK SHALL BE DESIGNED AND INSTALLED TIGHT TO THE STRUCTURE ABOVE TO MAINTAIN MAXIMUM CLEARANCE. COORDINATE DUCT LAYOUT WITH ALL OTHER TRADES AND STOCKROOM FIXTURING. TYPICAL.
6. CONNECT SUPPLY AIR BRANCH DUCT TO SUPPLY DUCT MAIN BETWEEN ROOFTOP UNIT AND DRUM LOUVER PLENUM DIFFUSER (DLPD). EXTEND BRANCH DUCTWORK AS INDICATED.
7. CONNECT SUPPLY AIR DUCT TO ROOFTOP UNIT AND TO DRUM LOUVER PLENUM DIFFUSER (DLPD). BOTTOM OF DLPD SHALL BE INSTALLED AT 16'-0" A.F.F. REFER TO DETAILS ON DRAWING H2.1.
8. CUT END OF RETURN DUCT AT 45 DEGREE TOP OPENING AND INSTALL A RETURN AIR GRILLE. REFER TO DETAIL ON DRAWING H2.1 FOR GRILLE SIZE.
9. AIR TRANSFER DUCT. REFER TO DETAIL ON DRAWING H2.2.
10. INSTALL BOTTOM OF AIR TRANSFER GRILLE 12" ABOVE PAINT BREAK LINE.
11. INSTALL BOTTOM OF AIR TRANSFER GRILLE AT 9'-0" ABOVE FINISHED FLOOR.
12. INSTALL BOTTOM OF RETURN GRILLE ON WALL AT 12" ABOVE PAINT BREAK LINE.
13. INSTALL BOTTOM OF EXHAUST GRILLE ON WALL AS HIGH AS POSSIBLE ABOVE FINISHED FLOOR.
14. INSTALL BOTTOM OF SUPPLY REGISTER ON WALL AT 9'-0" ABOVE FINISHED FLOOR.
15. PROVIDE 20"x20", 1" ACOUSTIC LINED, SUPPLY AIR DUCT PLENUM. CONNECT BRANCH DUCTWORK AND EXTEND AS INDICATED.
16. PROVIDE 10"x10" EXHAUST DUCT UP TO EXHAUST FAN.
17. DROP EXHAUST DUCT IN CHASE AND PROVIDE (2) EXHAUST GRILLES IN WALL FOR GOLF SERVICES. REFER TO DETAIL ON DRAWING H2.1 FOR ADDITIONAL INFORMATION.
18. INSTALL BOTTOM OF DUCTWORK AND MANUAL VOLUME DAMPERS NO MORE THAN 24" ABOVE LAY-IN CEILINGS. TYPICAL.
19. INSTALL BOTTOM OF SUPPLY REGISTER ON WALL AT 12'-0" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCTION WITH FIXTURING.
20. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF ROOFTOP UNIT ON ROOF WITH STRUCTURAL ENGINEER. SECURE ROOF CURB TO ROOF STRUCTURE AND FASTEN UNIT TO ROOF CURB. SHIM CURB AS REQUIRED SO UNIT SETS DEAD LEVEL. PROVIDE CURB COMPATIBLE WITH ROOFING SYSTEM. INSTALL SUPPLEMENTAL SUPPORT STEEL AS REQUIRED TO FRAME OPENINGS AS DIRECTED BY STRUCTURAL ENGINEER. CUT OPENINGS THROUGH ROOF FOR DUCT CONNECTIONS. PROVIDE FLEXIBLE CONNECTIONS AT UNIT SUPPLY AND RETURN CONNECTIONS. OFFSET AND TRANSITION SUPPLY AND RETURN DUCTWORK AS REQUIRED TO AVOID STRUCTURE. PROVIDE MITERED ELBOWS WITH TURNING VANES AT BOTTOM OF SUPPLY AND RETURN DUCT DROPS.
21. INSTALL CONDENSATE DRAIN WITH DEEP SEAL TRAP AND CLEAN OUT. ROUTE CONDENSATE ON ROOF AS INDICATED ON DRAWING H3.0.
22. SMOKE DETECTOR SHALL BE FIELD INSTALLED AND LOCATED IN THE SUPPLY AIR DUCT TO SHUT DOWN ROOFTOP UNIT UPON ALARM. SMOKE DETECTOR AND REMOTE INDICATOR ALARM AND KEY TEST SWITCH STATION TO BE FURNISHED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL INSTALL AND WIRE SMOKE DETECTOR TO ROOFTOP UNIT. REMOTE INDICATOR ALARM AND KEY TEST SWITCH STATION SHALL BE INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SMOKE DETECTOR SHALL BE WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR PER SITE-SPECIFIC CODE REQUIREMENTS.
23. COMBINATION TEMPERATURE/RELATIVE HUMIDITY/CARBON DIOXIDE SENSOR. VENDOR 16 SHALL INSTALL AND WIRE. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS.
24. COORDINATE FINAL LOCATION WITH GRAPHIC, VENDOR AND ARCHITECT.
25. NOVAR TEMPERATURE SENSOR FOR EQUIPMENT SERVING THIS AREA. VENDOR 16 SHALL FURNISH, INSTALL AND WIRE. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS.
26. THERMOSTAT FURNISHED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS.
27. ONE (1) HOUR TIMER WALL SWITCH FOR EXHAUST FAN. FURNISHED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE. COORDINATE FINAL LOCATION IN FIELD WITH WORK BENCH.
28. PROVIDE 3" TRIM FLANGE AROUND FULL PERIMETER OF EXPOSED DUCT PENETRATION ON BOTH SIDES OF WALL PENETRATIONS. CAULK FULL PERIMETER OF TRIM FLANGES AIR TIGHT. TYPICAL. TRIM FLANGE NOT REQUIRED IN LOCATIONS NOT VISIBLE AND ON SIDE OF WALL WHERE A SUPPLY REGISTER OR RETURN GRILLE IS INSTALLED.
29. INSULATE DUCTWORK (EXHAUST AND TRANSFER) LOCATED WITHIN PILASTERS WITH 3" (R-8) DUCTWRAP INSULATION.
30. INSTALL TOP OF EXHAUST GRILLE ON DISPLAY ROOM WALL AT 6" BELOW FINISHED CEILING. GENERAL CONTRACTOR TO PROVIDE ALL LINTELS AS REQUIRED BY STRUCTURAL ENGINEER FOR EXHAUST DUCTWORK IN PILASTERS.
31. INSTALL BOTTOM OF AIR TRANSFER GRILLE ON SALES FLOOR AT 18'-0" ABOVE FINISHED FLOOR. INSTALL BOTTOM OF AIR TRANSFER GRILLE ON DISPLAY ROOM WALL AT 6" ABOVE FINISHED FLOOR. GENERAL CONTRACTOR TO PROVIDE ALL LINTELS AS REQUIRED BY STRUCTURAL ENGINEER FOR AIR TRANSFER DUCT IN PILASTERS. COORDINATE LOCATION OF GRILLE WITH PILASTER, WALL DECALS AND INTERIOR ELEVATIONS ON ARCHITECTURAL DRAWINGS.
32. PROVIDE METROPOLITAN AIR TECHNOLOGY MANUAL VOLUME DAMPER WITH CABLE OPERATED REMOTE CONTROL MANUAL BALANCING DAMPER, MODEL RT-250, FOR EXHAUST GRILLES INSTALLED IN RESTROOM. LOCATE DAMPER REMOTE ADJUSTMENT TIP IN CEILING ADJACENT TO CORRESPONDING GRILLE WITH 1" MINI CEILING CAP.

McHenry & Associates Incorporated

MC&A

Consulting Engineers est. 1960

25001 Emery Road, Suite #200
Warrensville Heights, Ohio 44128
Phone: 216-292-4696
Fax: 216-292-5874
Email: mail@mchenryassociates.com
Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
H.V.A.C. FLOOR PLAN

SHEET NUMBER:
H1.0

Mar 26, 2021 - 08:59:38 DWG Name: C:\Users\Fox\GGXY FL Port St Lucie\12839_M01.dwg Updated By: mdavis

ROOFTOP UNIT SCHEDULE

UNIT NO.	LOCATION	SERVES	UNIT POWER					MAX. CFM O.A.	SUPPLY FAN					EXHAUST FAN		COOLING COIL					ELECTRIC HEATING SECTION		UNIT DIMENSIONS	UNIT WEIGHT	DESIGN EQUIPMENT (LENNOX)	REMARKS
			FLA	MCA	MOCP	PHASE	VOLTS	(SEE NOTE #13)	CFM	HP	MOTOR RPM	FAN RPM	EXT. SP (IN WG)	HP	EXT. SP (IN WG)	EAT (DB)	TOT. CLG. (BTUH)	SENS. CLG (BTUH)	NOMINAL TONS	EER/SEER IEER	EAT DEG F	INPUT (MBH)				
RTU-1	OPEN SALES ROOF	SAME	22.2	29.0	30.0	3	460	850	3,000	2.0	1750	807	0.75	1 @ 1/3	0.1"	105/80/67	88,200	67,000	7.5	12.7/--- 14.0	60.7	15.0 1 STAGE	102X61	1600	LGH-092-H4M	1 THRU 19
RTU-2	OPEN SALES ROOF	SAME	22.2	29.0	30.0	3	460	850	3,000	2.0	1750	807	0.75	1 @ 1/3	0.1"	105/80/67	88,200	67,000	7.5	12.7/--- 14.0	60.7	15.0 1 STAGE	102X61	1600	LGH-092-H4M	1 THRU 20
RTU-3	OPEN SALES ROOF	SAME	22.2	29.0	30.0	3	460	850	3,000	2.0	1750	807	0.75	1 @ 1/3	0.1"	105/80/67	88,200	67,000	7.5	12.7/--- 14.0	60.7	15.0 1 STAGE	102X61	1600	LGH-092-H4M	1 THRU 20
RTU-4	OPEN SALES ROOF	SAME	22.2	29.0	30.0	3	460	850	3,000	2.0	1750	807	0.75	1 @ 1/3	0.1"	105/80/67	88,200	67,000	7.5	12.7/--- 14.0	60.7	15.0 1 STAGE	102X61	1600	LGH-092-H4M	1 THRU 19
RTU-5	SALES ROOF	SAME	20.9	27.0	30.0	3	460	500	1,900	1.0	1750	1036	0.70	1 @ 1/3	0.1"	105/80/67	60,000	45,600	5	12.3/15.5 ---	61.5	15.0 1 STAGE	86X47	1050	LGH-060-S4T	1 THRU 11, 13, 14, 15, 16, 17, 18, 19
RTU-6	OFFICE/STOCK ROOF	SAME	11.5	16.0	20.0	3	460	200	2,050	1.0	1750	1020	0.60	1 @ 1/3	0.35"	105/75/63	56,600	44,100	5	12.3/15.5 ---	68.1	7.5 1 STAGE	86X47	1050	LGH-060-S4T	1 THRU 11, 13, 14, 15, 16, 17, 18, 19, 20
							TOTAL	4,100										TOTAL	40							

REMARKS:

1. ALL ROOFTOP UNITS TO BE MANUFACTURED BY VENDOR #12. ACCESSORIES LISTED ARE TO BE PROVIDED BY ROOFTOP UNIT MANUFACTURER UNLESS INDICATED OTHERWISE. ROOFTOP UNITS SHALL BE COMPLIANT WITH 2018 IECC REQUIREMENTS.
2. SMOKE DETECTOR FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED AND WIRED TO ROOFTOP UNIT BY MECHANICAL CONTRACTOR TO SHUT DOWN UNIT UPON ALARM.
3. DIRTY FILTER SWITCH.
4. COMBINATION TEMPERATURE/RELATIVE HUMIDITY/CARBON DIOXIDE (THC) SENSOR WITHOUT DISPLAY. SENSOR TO BE INSTALLED AND WIRED BY VENDOR 16.
5. SEE DETAILS, SHEET H2.1.
6. FACTORY INSTALLED HIGH PERFORMANCE ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTICS (FDD) WITH POWER EXHAUST AND WITH LOW AMBIENT CONTROL. PROVIDE FACTORY INSTALLED POWER EXHAUST FOR 7.5 TONS AND OVER. FURNISH FIELD INSTALLED POWER EXHAUST FOR 6 TONS AND UNDER WHICH THE MECHANICAL CONTRACTOR SHALL INSTALL AND WIRE IN FIELD. OUTSIDE AIR DAMPERS SHALL BE CLASS 1 MOTORIZED DAMPERS AND COMPLY WITH THE AIR LEAKAGE RATE REFERENCED IN THE FLORIDA BUILDING ENERGY CODE, C403.2.4.3.
7. FACTORY INSTALLED GFCI RECEPTACLE. RECEPTACLE TO BE FIELD WIRED BY ELECTRICAL CONTRACTOR.
8. FACTORY INSTALLED DISCONNECT SWITCH. DISCONNECT SWITCH TO BE FIELD WIRED BY ELECTRICAL CONTRACTOR.
9. EQUIPMENT OPERATION CHECK (EOC).
10. HAIL GUARDS FOR ROOFTOP UNITS TO BE PROVIDED IN DESIGNATED AREAS PER MANUFACTURER'S RECOMMENDATIONS.
11. BURGLAR BARS.
12. METAL DRUM LOUVER PLENUM DIFFUSER (DLPD) PACKAGE. REFER TO "DIFFUSER / GRILLE SCHEDULE" BELOW.
13. MINIMUM OUTSIDE AIR DAMPER SETPOINT TO BE 5% OF SUPPLY AIR CFM.
14. 18" HIGH ROOF CURB WITH HURRICANE CLIPS RATED FOR SITE SPECIFIC WIND CRITERIA. INCLUDE MANUFACTURER NOA# AND SITE SPECIFIC CALCULATIONS.
15. REFER TO EM DRAWINGS FOR ADDITIONAL INFORMATION ON NOVAR ENERGY MANAGEMENT SYSTEM.
16. A NEW SET OF FILTERS PRIOR TO AIR BALANCE, A NEW SET OF FILTERS AT TURNOVER TO DICK'S SPORTING GOODS, AND A NEW SET OF FILTERS ONE (1) DAY PRIOR TO STORE OPENING. FILTERS TO BE DP CLASS 1, 2" PLEATED, 40% EFFICIENT (MV40% WEIGHT ARRESTANCE TEST EFFICIENCY RATING (MERV 8).
17. MULTI-STAGE AIR VOLUME SUPPLY AIR BLOWER OPTION WITH DYNAMIC CONTROLS. FAN STAGES WITHIN 10% OF THE REQUIRED OUTSIDE AIR VENTILATION RATE AT BOTH FULL AND REDUCED SUPPLY AIRFLOW CONDITIONS.
18. CONDENSER AND EVAPORATOR CORROSION PROTECTION COATING.
19. CONDENSATE DRAIN PAN HIGH WATER OVERFLOW SWITCH. OVERFLOW SWITCH SHALL SHUT OFF ROOFTOP UNIT PRIOR TO OVERFLOW OF DRAIN PAN. OVERFLOW SWITCH SHALL BE INSTALLED HIGHER THAN PRIMARY DRAIN PAN CONNECTION.
20. HUMIDITROL FOR ROOFTOP UNITS 2, 3 AND 6.

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LENNOX FACTORY STARTUP OF ROOFTOP UNITS. MECHANICAL CONTRACTOR WILL RUN ALL TESTS TO PROVE THAT THE ROOFTOP UNITS ARE RUNNING CORRECTLY (CYCLING CORRECTLY, HEATING MODE, COOLING MODE, ECONOMIZER MODE, ETC.) PRIOR TO NOVAR EM SYSTEM START UP AND TESTING. VENDOR 16 IS RESPONSIBLE TO PROVIDE ALL WIRING FROM COMBINATION TEMPERATURE SENSORS TO ROOFTOP UNITS AND FINAL WIRING CONNECTION TO ROOFTOP UNITS. REFER TO EM DRAWINGS.

MECHANICAL VENTILATION OUTSIDE AIR SCHEDULE: FLORIDA MECHANICAL CODE 2020

ROOM NAME	ROOM AREA (ft2) GROSS	CLASSIFICATION	OUTDOOR AIR CALCULATED: PEOPLE PER 1000 ft2 (Net Area)	NO. OF OCCUP. (Pz)	# OF PEOPLE IN AREA (Ps)	CFM/PERSON PER TABLE (Table 403.3) (Rp)	CFM/ft2 (Ra) (Table 403.3) (Net Area)	CFM1 (Rp*Pz)	CFM2 (Ra*Az)	REQUIRED O.A. (Vbz= RpPz+RaAz)	ZONE AIR DIST. EFFECTIVENESS Ez (Table 403.3.1.2)	ZONE O.A. RATE (Voz= Vbz/Ez)	PRIMARY AIRFLOW (Vpz)	Multiple Zone System: PRIMARY O.A. FRACTION (Voz/Vpz)	SYSTEM VENTILATION EFFICIENCY (Ev) (Table 403.3.2.3.2)	OCCUPANT DIVERSITY (D=Ps/Pz)	UNCORRECTED O.A. INTAKE (Vou=D(RpPz) +RaAz)	REQUIRED O.A. FLOW RATE (Vot=Vou/Ev) CFM)	DESIGN O.A. FLOW RATE (CFM)
RTUs 1 thur 4																			
SALES FLOOR	11337	Sales	15	171	171	7.5	0.12	1283	1360	2643	0.8	3304	11700	0.28					
FRONT STOCK	194	Storage rooms	0	0	0	0	0.12	0	23	24	0.8	30	300	0.10					
							Total:	1283	1384				Max Zp:	0.28	0.8	1	2667	3334	3400
RTUs 5																			
HITTING ROOM	395	Sales	15	6	6	7.5	0.12	45	47	93	0.8	117	350	0.33					
HITTING ROOM	380	Sales	15	6	6	7.5	0.12	45	46	91	0.8	114	350	0.33					
HITTING ROOM	380	Sales	15	6	6	7.5	0.12	45	46	91	0.8	114	350	0.33					
PGA ROOM	380	Sales	15	6	6	7.5	0.12	45	46	91	0.8	114	450	0.25					
CORRIDOR	132	Corridor	0	0	0	0	0.06	0	8	8	0.8	10	100	0.10					
STOCK ROOM	58	Storage rooms	0	0	0	0	0.12	0	7	7	0.8	9	150	0.06					
							Total:	180	200				Max Zp:	0.33	0.8	1	380	475	500
RTU 6																			
BREAK ROOM	181	Office space	5	4	4	5	0.06	20	11	31	0.8	39	450	0.09					
FRONT STOCK	850	Storage rooms	0	0	0	0	0.12	0	102	102	0.8	128	900	0.14					
OFFICE	103	Office space	5	3	3	5	0.06	15	6	24	0.8	28	350	0.08					
GOLF SERVICES	288	Office space	5	2	2	5	0.06	10	17	28	0.8	35	350	0.10					
							Total:	45	137				Max Zp:	0.14	1	1	182	182	200
																	TOTAL	3991	4100

ROOFTOP UNIT SEQUENCE OF OPERATION

ROOFTOP UNITS SHALL AUTOMATICALLY SEQUENCE HEATING AND COOLING. COOLING SHALL BE LOCKED OUT WHENEVER UNITS ARE IN ECONOMIZER MODE. CARBON DIOXIDE SENSOR SHALL MODULATE OUTSIDE AIR DAMPER FROM 5 PERCENT MINIMUM POSITION TO MAXIMUM OUTSIDE AIR SET POINT LISTED IN ROOFTOP UNIT SCHEDULE TO MAINTAIN SPACE CARBON DIOXIDE SET POINT IN ACCORDANCE WITH ASHRAE 62 REQUIREMENTS.

ROOFTOP UNIT SHALL OPERATE AS FOLLOWS:

A. OCCUPIED HOURS:
   - OUTSIDE AIR DAMPER SHALL OPEN AND SUPPLY FAN SHALL OPERATE CONTINUOUSLY.

B. UNOCCUPIED HOURS:
   - OUTSIDE AIR DAMPER SHALL CLOSE AND SUPPLY FAN SHALL CYCLE.

EXHAUST FAN SCHEDULE

UNIT NO.	LOCATION	SERVES	HP OR WATTS	PHASE	VOLTS	TYPE	CFM	EXT. SP	BLADE TYPE	FAN RPM	DRIVE	WEIGHT	DESIGN EQUIPMENT (MAKE & MODEL)	REMARKS
EF-1	ROOF	STOCK ROOM	1/4 HP	1	115	DOME	700	0.375"	CENT.	1140	BELT	100	GREENHECK: SB-100	1, 3
EF-2	ROOF	TOILET.RMS.	1/6 HP	1	115	DOME	350	0.375"	CENT.	1085	BELT	100	GREENHECK: SB-098	1, 2
EF-3	ROOF	GOLF SERVICES	1/4 HP	1	115	DOME	1,200	0.375"	CENT.	1215	DIRECT	100	GREENHECK: CUE-120	4, 5, 6
EF-4	ROOF	DISPLAY WINDOW	1/4 HP	1	115	DOME	500	0.375"	CENT.	1070	BELT	100	GREENHECK: SB-099	1, 3
EF-5	ROOF	DISPLAY WINDOW	1/4 HP	1	115	DOME	500	0.375"	CENT.	1070	BELT	100	GREENHECK: SB-099	1, 3

REMARKS:

1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER, BIRD SCREEN, 16" HIGH INSULATED ROOF CURB WITH NOA #, BURGLAR BARS, DISCONNECT SWITCH, AND BELT DRIVE WITH ADJUSTABLE MOTOR PULLEY.
2. FAN CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
3. FAN CONTROLLED BY REVERSE ACTING THERMOSTAT. THERMOSTAT FURNISHED BY MC. THERMOSTAT INSTALLED AND WIRED BY EC.
4. FAN CONTROLLED BY 0-60 MINUTE WALL TIMER SWITCH. WALL SWITCH FURNISHED BY MC. WALL SWITCH INSTALLED AND WIRED BY EC.
5. TEFC (EXPLOSION PROOF) MOTOR.
6. PROVIDE WITH GRAVITY BACKDRAFT DAMPER, BIRD SCREEN, 16" HIGH INSULATED ROOF CURB WITH HINGED CURB BASE AND CABLES FOR MAINTENANCE AND CLEANING AND NOA #, BURGLAR BARS, DISCONNECT SWITCH, AND DIRECT DRIVE MOTOR WITH SPEED CONTROLLER FOR BALANCING.

DIFFUSER / GRILLE SCHEDULE

MARK	MANUFACTURER & MODEL #	CFM	NECK SIZE	FRAME TYPE	FACE TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	NOTES
SR-1	TITUS 300-RL	AS NOTED	AS NOTED	SURFACE	HORIZ. BAR	DOUBLE DEFLECTION	YES	STEEL	SUPPLY	OFF-WHITE	1
CD-1	TITUS TDC	AS NOTED	AS NOTED	LAY-IN	LOUVER	4-WAY U.N.O.	YES	STEEL	SUPPLY	OFF-WHITE	1, 2, 3
CD-2	TITUS TDC	AS NOTED	AS NOTED	SURFACE	LOUVER	4-WAY U.N.O.	YES	STEEL	SUPPLY	OFF-WHITE	1, 2, 3
CD-3	TITUS TDC	AS NOTED	AS NOTED	SURFACE	LOUVER	4-WAY U.N.O.	YES	ALUMINUM	SUPPLY	OFF-WHITE	1, 2, 4
CD-4	CURBS PLUS, INC. DLPD 2406	PER RTU SIZE	PER MANFC. SIZE	NA	DLPD	4-WAY	NA	STEEL	SUPPLY	OFF-WHITE	1
G-1	TITUS 350-RL	AS NOTED	AS NOTED	SURFACE	HORIZ. BAR	NA	YES	STEEL	RETURN/ EXHAUST	OFF-WHITE	1, 2
G-2	TITUS 350-RL	AS NOTED	AS NOTED	SURFACE	HORIZ. BAR	NA	NO	STEEL	TRANSFER	OFF-WHITE	1, 2
G-3	TITUS 50	AS NOTED	AS NOTED	LAY-IN	EGGCRATE	NA	YES	ALUMINUM	RETURN	OFF-WHITE	1, 2
G-4	TITUS 350-RL	AS NOTED	AS NOTED	SURFACE	HORIZ. BAR	NA	YES	ALUMINUM	RETURN/ EXHAUST	OFF-WHITE	1, 2
G-5	TITUS 50	AS NOTED	AS NOTED	SURFACE	EGGCRATE	NA	NO	ALUMINUM	RETURN	OFF-WHITE	1
G-6	TITUS 350-RL	AS NOTED	AS NOTED	SURFACE	HORIZ. BAR	NA	YES	STEEL	EXHAUST	OFF-WHITE	1, 2, 5

NOTES:

1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:

   GRILLE, REGISTER, OR DIFFUSER TYPE AS NOTED ABOVE — SR-1, 12x12 — DIFFUSER NECK SIZE OR GRILLE/REGISTER SIZE.
   AIR QUANTITY — 400 CFM

2. ALL FRAME TYPES SHALL BE COMPATIBLE WITH ADJACENT CONSTRUCTION.
3. PROVIDE 24"x24" CEILING DIFFUSER MODULE WITH 18"x18" LOUVERED FACE.
4. PROVIDE 12"x12" CEILING DIFFUSER MODULE WITH 9"x9" LOUVERED FACE.
5. PROVIDE 1" PLEATED FILTER MOUNTED BEHIND GRILLE.

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WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

All design materials prepared by Fox Design Group, LLC shall remain the property of Fox Design Group, LLC, which shall also retain all common law, statutory and other rights, including the copyright thereto

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GOLF GALAXY

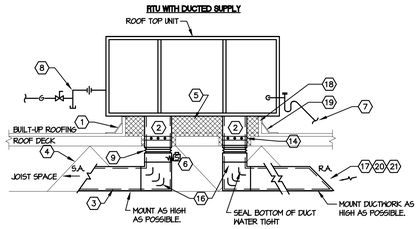
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

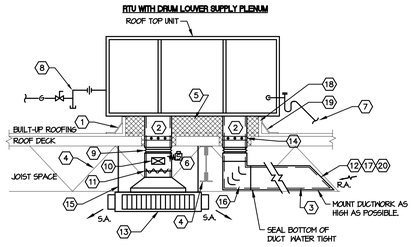
PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING: H.V.A.C. SCHEDULES

SHEET NUMBER: H2.0

Mar 25, 2021 - 15:31:31 DWG Name: G:\Jobs\Fox\GOLF FL Port St Lucie\12893_H2.0.dwg Updated By: mdavis





GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE ROOFTOP UNIT LOCATIONS WITH STRUCTURAL DRAWINGS.

B. CONTRACTOR SHALL COORDINATE ALL ROOF OPENINGS WITH STEEL FRAMING AS SHOWN ON STRUCTURAL DRAWING - FIELD VERIFY CONDITIONS. SECURITY BARS SHALL BE PROVIDED IN ALL OPENINGS THRU ROOF. SECURITY BARS SHALL BE 3/4" RIBBED TOOL RESISTANT STEEL BARS ON 5" CENTERS INSERTED THRU 2 1/2"W x 3/8" THICK HORIZONTAL BARS ON 12" CENTERS.

C. SEAL ALL DUCTWORK OPENINGS WITH NON- HARDENING MASTIC.

D. DUCTWORK TO BE MOUNTED UP WITH-IN JOIST SPACE WHENEVER POSSIBLE. IF DUCTWORK CAN NOT BE MOUNTED UP WITH IN JOIST SPACE, THEN BOTTOM OF EXPOSED DUCTWORK TO BE AS FOLLOWS:
- SALES FLOOR: AS HIGH AS POSSIBLE AT A MINIMUM HEIGHT OF 17'-0"
- STOCK ROOMS: AS HIGH AS POSSIBLE AT A MINIMUM HEIGHT OF 15'-0"

E. PRIOR TO ANY WORK, CONTRACTOR SHALL CONFIRM IN FIELD THAT BOTTOM OF DRUM LOUVER PLENUM DIFFUSER (DLPD) CAN BE MOUNTED AT HEIGHT INDICATED ON DRAWING H1.0. DRUM LOUVER PLENUM DIFFUSER SHALL NOT BE MOUNTED ABOVE HEIGHT INDICATED ON FLOOR PLAN. IF DRUM LOUVER PLENUM DIFFUSER CAN NOT BE MOUNTED AT HEIGHT INDICATED ON FLOOR PLAN, NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY WITH ANTICIPATED MOUNTING HEIGHTS FOR EACH LOCATION. AIR FLOW IS NOT TO BE BLOCKED BY RETURN AIR DUCTWORK OR BEAMS.

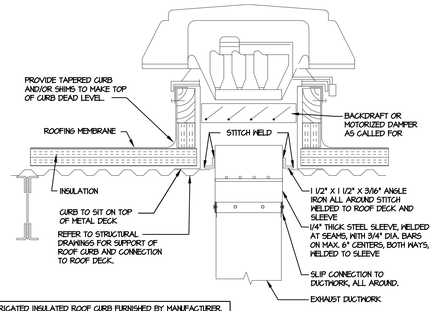
RETURN AIR GRILLE CHART		
TONS	R.A. DUCT	GRILLE (6-5)
7.5	28x22	28x32

NOTE: BOTTOM OF RETURN AIR DUCWORK SHALL NOT BE LOWER THAN BOTTOM OF BAR JOIST.

CODED NOTES:

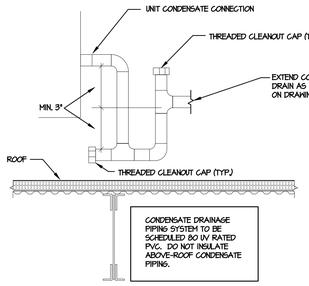
1. PREFABRICATED ROOF CURB. SET ROOF CURB ON STRUCTURAL STEEL AND SHIM DEAD LEVEL. SECURE ROOF CURB TO METAL DECK AND RTU TO ROOF CURB.
2. TRANSITION TO CONNECTION SIZES IN DUCT RISE. REFER TO PLANS FOR SIZES.
3. 1" ACOUSTIC LINING IN SUPPLY AND RETURN AIR DUCTWORK FROM FAN DISCHARGE TO POINT INDICATED ON MECHANICAL DRAWINGS (10'-0" MIN) DUCT SIZES INDICATED ON PLANS ARE EXTERIOR AND INCLUDE LINING.
4. REFER TO STRUCTURAL DRAWINGS FOR GIRDER AND JOIST LOCATIONS, SIZES, AND DIRECTION.
5. PACK OPENING BETWEEN ROOF DECK AND DUCTS AND ENTIRE CURB CAVITY WITH FIBERGLASS INSULATION. PROVIDE 3 ALT. LAYERS OF 5/8"-6LB, AND 1" RIGID INSULATION. SEAL AND STAGGER ALL SEAMS. PROVIDE SHEETMETAL ENCLOSURE AT DUCT PENETRATION OF METAL ROOF DECK TO COVER UP AND HOLD INSULATION IN PLACE.
6. FIELD INSTALLED SMOKE DETECTOR IN SUPPLY AIR DUCT OF RTU TO SHUT DOWN RTU UPON ALARM.
7. CONDENSATE DRAIN WITH CLEANOUT AND DEEP SEAL TRAP. REFER TO DETAIL ON THIS DRAWING.
8. GAS CONNECTION WITH GAS COCK, UNION AND DIRTLEG. REFER TO PLUMBING ROOF PLAN FOR GAS PIPE SIZES.
9. FLEXIBLE CONNECTION (TYPICAL).
10. BRANCH DUCT IN JOIST SPACE - REFER TO PLANS FOR LOCATIONS AND SIZES.
11. MANUAL BALANCING DAMPER WITH LOCKING QUADRANT. REQUIRED ONLY AT UNITS WITH BRANCH DUCTS. SEE CODED NOTE 10.
12. PROVIDE GRILLE, 6-5, ON TOP OF 45 DEG. TOP RETURN AIR OPENING. REFER TO CHART FOR RETURN AIR GRILLE SIZING.
13. DRUM LOUVER PLENUM DIFFUSER (DLPD) SYSTEM TO MATCH UNIT CFM. INSTALL DLPD SYSTEM AT HEIGHT INDICATED ON FLOOR PLAN. AIR FLOW IS NOT TO BE BLOCKED BY RETURN AIR DUCTWORK OR BEAMS.
14. BURGLAR BARS.
15. SUPPORT DLPD FROM JOIST MEMBERS, AS NECESSARY, USING 3/8" ALL THREAD. COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO ANY WORK.
16. TURNING VANES - (TYPICAL).
17. ADJUST RETURN AIR DUCT SIZE (MAINTAIN EQUIVALENT AREA) AS REQUIRED TO FIT RETURN AIR DUCT UP IN JOIST SPACE. IN NO CASE SHALL RETURN AIR DUCT BLOCK AIRFLOW FROM SUPPLY AIR REGISTERS.
18. 2" RIGID INSULATION.
19. ROOF FLASHING.
20. REMOVE ANY EXISTING STRUCTURAL BRACING AS REQUIRED TO INSTALL RETURN AIR DUCTWORK UP IN JOIST SPACE AND PROVIDE ANY NEW STRUCTURAL BRACING AS REQUIRED. COORDINATE REMOVAL AND ADDITION OF STRUCTURAL BRACING WITH STRUCTURAL ENGINEER PRIOR TO ANY WORK.
21. 45 DEG. TOP RETURN AIR OPENING. PAINT INTERIOR OF ALL DUCTWORK VISIBLE FROM FLOOR WITH PAINT TO MATCH BOTTOM OF ROOF DECK.

1 ROOFTOP AIR CONDITIONING UNIT DETAILS
SCALE: NONE



PREFABRICATED INSULATED ROOF CURB FURNISHED BY MANUFACTURER, INSTALLED UNDER DIVISION 7. CONSULT ROOFING MFR. FOR ROOF TYPE AND COORDINATE DESIGN OF CURB WITH ROOFING REQUIREMENTS. MANUFACTURER TO PROVIDE NOAA AND SITE SPECIFIC CALCULATION FOR HIGH WIND CRITERIA.

2 EXHAUST FAN CURB DETAIL
SCALE: NONE



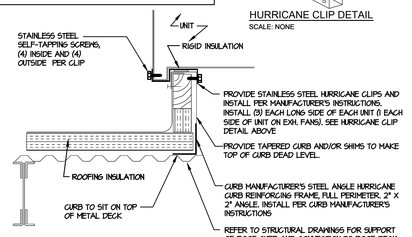
CONDENSATE PIPE SIZES	
TONS	PIPE SIZE *
0-5	1"
6-30	1-1/4"
31-50	1-1/2"
51-170	2"

* OR USE CONNECTION SIZE, WHICHEVER IS LARGER

3 CONDENSATE TRAP DETAIL
SCALE: NONE

PREFABRICATED INSULATED ROOF CURB FURNISHED BY MANUFACTURER, INSTALLED UNDER DIVISION 7. CONSULT ROOFING MFR. FOR ROOF TYPE AND COORDINATE DESIGN OF CURB WITH ROOFING REQUIREMENTS. MANUFACTURER TO PROVIDE NOAA AND SITE SPECIFIC CALCULATION FOR HIGH WIND CRITERIA.

HURRICANE CLIP DETAIL
SCALE: NONE



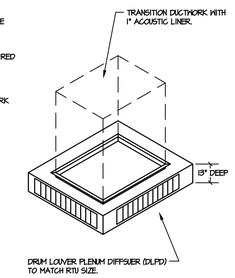
NOTE:

COORDINATE ALL ROOF OPENINGS WITH STEEL FRAMING AS SHOWN ON STRUCTURAL DRAWING. FIELD VERIFY CONDITIONS. PROVIDE SECURITY BARS IN ALL OPENINGS THRU ROOF.

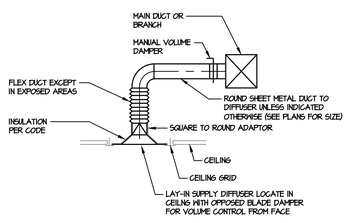
4 ROOFTOP UNIT CURB DETAIL
SCALE: NONE

NOTES:

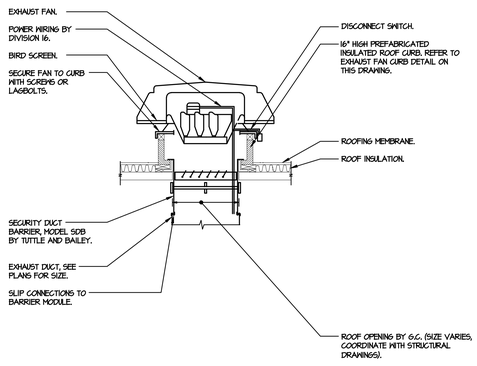
1. SUPPORT DLPD FROM JOIST MEMBERS, AS NECESSARY, USING 3/8" ALL THREAD.
2. INSTALL DLPD IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. FIELD BAFFLES MAY BE REQUIRED FOR BALANCING.
4. INSTALL DLPD AT HEIGHT INDICATED ON DRAWING H1.0. PROVIDE TRANSITION DUCTWORK BETWEEN ROOFTOP UNIT AND DLPD AS REQUIRED.



5 DRUM LOUVER PLENUM DIFFUSER DETAIL
SCALE: NONE



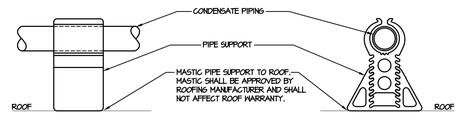
6 LAY-IN CEILING DIFFUSER DETAIL
SCALE: NONE



7 EXHAUST FAN DETAIL
SCALE: NONE

RECOMMENDED SUPPORT SPACING FOR SCHEDULE 80 UV RATED PVC PIPE	
PIPE SIZE (IN)	DISTANCE BETWEEN SUPPORTS (FT)
1" TO 2"	4'

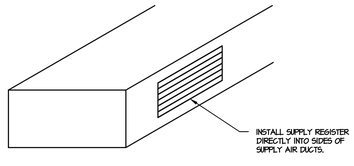
CADDY PYRAMID EZ RUBBER-BASED SUPPORT.
- MODEL # RPSEH57: PIPE SIZES 1" AND SMALLER
- MODEL # RPSE2M6: PIPE SIZES 1-1/4" TO 2"



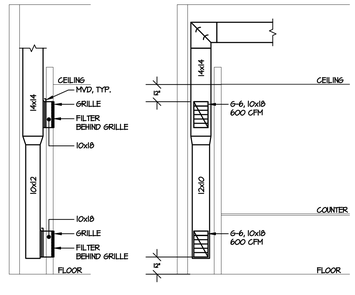
8 ROOF CONDENSATE PIPE SUPPORT DETAIL
SCALE: NONE

ELBOW WITH AIRFOIL TURNING VANES		ACOUSTIC LINED DUCT (NOTE #1)	DOUBLE SINGLE
BRANCH TAKE-OFF RECTANGULAR TO RECTANGULAR	45° MVD	BRANCH TAKE-OFF RECTANGULAR TO ROUND	45° MVD
BRANCH TAKE-OFF ROUND TO ROUND		SQUARE TO ROUND TRANSITION FITTING	30°
PROPORTION SPLIT		FLEXIBLE DUCT	BRANCH DUCT TO DIFFUSER MAX. LENGTH = 48"
MANUAL VOLUME DAMPER (MVD)		NOTES: 1. DASHED LINE INDICATES 1" INTERIOR ACOUSTIC LINING UNLESS OTHERWISE NOTED. DUCT SIZE IS EXTERIOR AND INCLUDES LINING.	

9 TYPICAL DUCT TAKE-OFF DETAIL
SCALE: NONE



10 SIDEWALL SUPPLY REGISTER INSTALLATION DETAIL
SCALE: NONE



11 GOLF SERVICES EXHAUST DUCT
SCALE: NONE

McHenry & Associates Incorporated
Mc&A
Consulting Engineers est. 1960
25001 Emery Road, Suite #200
Warrensville Heights, Ohio 44128
Phone: 216-292-4696
Fax: 216-292-5874
Email: mail@mchenryassociates.com
Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

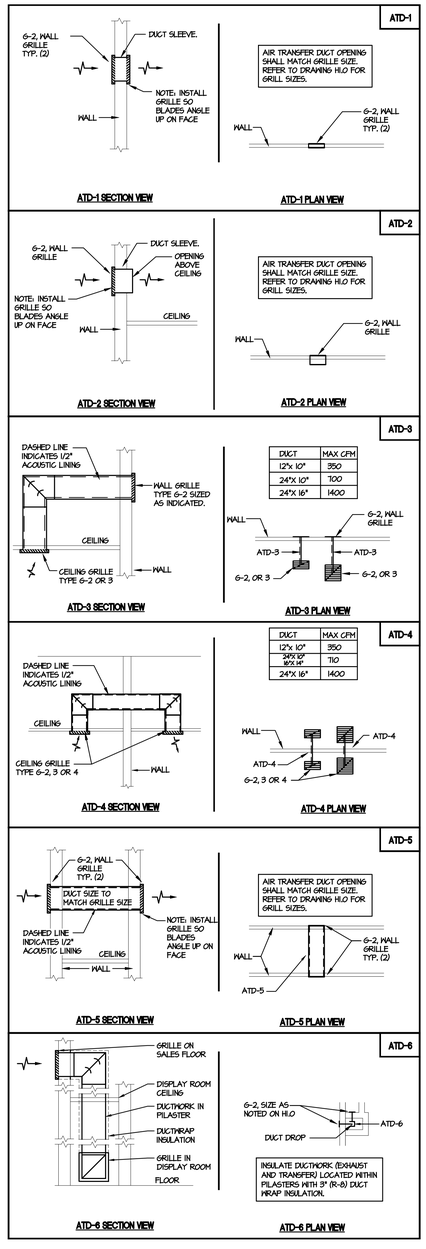
DRAWING:
H.V.A.C. DETAILS

SHEET NUMBER:
H2.1

Mar 25, 2021 - 15:31:24 DWG Name: G:\Jobs\Fox\GOLFX FL Port St Lucie\12933_H02.dwg Updated By: mdavis

AFF	ABOVE FINISHED FLOOR
ATD	AIR TRANSFER DUCT
B'	BOTTOM OF
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CONN.	CONNECT / CONNECTION
CORR.	CORRIDOR
CUH	CABINET UNIT HEATER
DIA	DIAMETER
DEG	DEGREES
DLPD	DRUM LOUVER PLENUM DIFFUSER SYSTEM
DWG	DRAWING
EA	EXHAUST AIR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF.	EFFICIENCY
E.S.P.	EXTERNAL STATIC PRESSURE
EXH.	EXHAUST
G	GRILLE
HP	HORSE POWER
HTG	HEATING
KW	KILOWATTS
LD	LINEAR DIFFUSER
MBH	THOUSAND BTU/HOUR
MVD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
OP. HT.	OPERABLE HEIGHT
PRESS.	PRESSURE
RA	RETURN AIR
RO	ROOF OPENING
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
T'	TOP OF
TSTAT	THERMOSTAT
TYP.	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
GC	GENERAL CONTRACTOR
FPC	FIRE PROTECTION CONTRACTOR
PC	PLUMBING CONTRACTOR
MC	MECHANICAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
—G—	LOW PRESSURE GAS PIPING
RPG-2#	REGULATED 2 PSI GAS PIPING
'X' OR	EXISTING TO REMAIN
'XR' OR	EXISTING TO BE REMOVED
'XA' OR	EXISTING TO BE ABANDONED IN PLACE
'XRL' OR	EXISTING TO BE RELOCATED
'XNL' OR	EXISTING, RELOCATED, SHOWN IN NEW LOCATION
CO2	CO-2 SENSOR TO BE FURNISHED BY MC. INSTALLED AND WIRED BY VENDOR 16.
GH	NOVAR GLOBAL HUMIDITY SENSOR. FURNISHED, INSTALLED AND WIRED BY VENDOR 16.
H	HUMIDITY SENSOR TO BE FURNISHED BY MC. INSTALLED AND WIRED VENDOR 16.
IT	NOVAR INDOOR TEMPERATURE SENSOR. FURNISHED, INSTALLED AND WIRED BY VENDOR 16.
S	TEMPERATURE SENSOR. FURNISHED, INSTALLED AND WIRED BY VENDOR 16.
T	THERMOSTAT. FURNISHED BY MC. INSTALLED AND WIRED BY EC.
THC	COMBINATION TEMPERATURE/RELATIVE HUMIDITY/CARBON DIOXIDE SENSOR FURNISHED BY MC. INSTALLED AND WIRED BY VENDOR 16.
	INDICATES CODED NOTE
MD-X	MOTORIZED DAMPER, 120 VOLT
FD	'UL' LISTED FIRE DAMPER WITH DUCT ACCESS DOOR
S	DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UNDER ALARM. DETECTOR SHALL BE LOCATED, INSTALLED AND WIRED AS INDICATED ON FLOOR PLAN AND SPECIFICATIONS. ALL WIRING TO BE IN CONDUIT PER N.E.C.
UC	UNDERCUT DOOR, REFER TO ARCHITECTURAL DRAWINGS.
LD X.XX# F.A.	LOUVERED DOOR, REFER TO ARCHITECTURAL DRAWINGS. X SQUARE FEET OF FREE AREA.
X/X	EQUIPMENT TAG
$	ONE (1) HOUR TIMER WALL SWITCH. FURNISHED BY MC. INSTALLED AND WIRED BY EC.

1 H.V.A.C. LEGEND
SCALE: NONE



DUCT	MAX CFM
12"x 10"	350
24"X 10"	700
24"X 16"	1400

DUCT	MAX CFM
12"x 10"	350
24"X 10" 10"X 16"	710
24"X 16"	1400

NOTES FOR ALL AIR TRANSFER DUCTS:

A. SEAL VOID BETWEEN WALL AND ALL DUCT PENETRATIONS AIRTIGHT.
B. ACOUSTIC LINE AIR TRANSFER DUCTS WITH 1/2" ACOUSTIC LINING. DUCT DIMENSIONS ARE EXTERIOR AND INCLUDE LINING.
C. ALL GRILLES SHALL BE FURNISHED WITH FRAMES COMPATIBLE WITH WALL OR CEILING CONSTRUCTION
D. REFER TO MECHANICAL FLOOR PLANS FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED GRILLES.
E. WHEN GRILLE IS ABOVE 10'-0" A.F.F. INSTALL GRILLE SO BLADES ANGLE UP ON FACE.
F. ALL GRILLES ON SALES FLOOR SHALL BE INSTALLED ABOVE PAINT BREAK LINE UNLESS INDICATED OTHERWISE ON FLOOR PLAN.

2 AIR TRANSFER DUCT DETAILS
SCALE: NONE

H.V.A.C. GENERAL NOTES:

1. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING PROCESS AND FIELD VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL TAKE ALL INTERFERENCES INTO CONSIDERATION. PROVIDE ALL NECESSARY OFFSETS OR TRANSITIONS WITH EQUIVALENT AREAS TO MATCH DUCT SIZES AS INDICATED ON DRAWINGS.
2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS AND SERVICES RELATED TO INSTALLATION OF THE WORK.
3. CONTRACTOR IS RESPONSIBLE TO AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST STATE CODES, TOWNSHIP, AND NFPA, O.S.H.A., AND THE RULES AND REGULATIONS OF ALL CITY, STATE, AND FEDERAL AUTHORITIES HAVING JURISDICTION. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION.
4. CONTRACTOR SHALL BE LICENSED, TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF MECHANICAL SYSTEMS, INCLUDING DUCTS, PIPING AND EQUIPMENT. UNCERTIFIED PERSONS MAY PERFORM MECHANICAL INSTALLATIONS ONLY WHEN UNDER DIRECT SUPERVISION AND RESPONSIBILITY OF A CERTIFIED INSTALLER OR LICENSED CONTRACTOR. VERIFICATION OF CERTIFICATION AND LICENSES ARE REQUIRED.
5. THESE DRAWINGS INDICATE THE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. ANY DIMENSIONS NOT SHOWN SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS. FOR EXACT LOCATIONS, HEIGHTS, DOOR SWINGS, MOUNTING HEIGHTS, ETC., REFER TO ARCHITECTURAL DRAWINGS AND DETAILS.
6. PRIOR TO STARTING ANY WORK, PURCHASE OF EQUIPMENT, ETC., COORDINATE WORK WITH OTHER TRADES. CONFER WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION AND ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT OF OTHERS, WITH THE BUILDING CONSTRUCTION AND WITH ARCHITECTURAL FINISH.
7. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR, EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER. REFRIGERANT COMPRESSORS SHALL BE GUARANTEED FOR FIVE YEARS BY MANUFACTURER.
8. ALL EQUIPMENT SHALL BE LABELED ACCORDING TO NUMBERING / IDENTIFICATION SYSTEM PER PLANS.
9. ALL EQUIPMENT SHALL BE INSTALLED PER CODE AND MANUFACTURER'S REQUIREMENTS FOR SERVICE AND ACCESS CLEARANCES.
10. ALL EQUIPMENT SHALL BE U.L. LISTED.
11. ALL INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS AND PARTITIONS.
12. DO ALL NECESSARY CUTTING AND ROUGH PATCHING. FINISH PAINTING, FINISH PATCHING AND POWER WIRING IS BY OTHERS.
13. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL MECHANICAL CEILING EQUIPMENT.
14. COORDINATE EXACT LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH STRUCTURAL PLANS, SPECIALLY-DESIGNED JOISTS, ETC.
15. CUTTING OF ROOF, INSTALLATION OF CURBS, AND PATCHING OF ROOF SHALL BE BY OWNER'S ROOFING CONTRACTOR AND PAID FOR BY MECHANICAL CONTRACTOR TO MAINTAIN ROOF WARRANTY.
16. ROOF CURBS SHALL HAVE A BASE THAT FITS SLOPE OF ROOF AS REQUIRED. TOP OF CURB SHALL BE LEVEL. REFER TO ARCHITECTURAL / STRUCTURAL PLANS FOR SLOPE AND STRUCTURE INFORMATION. ROTATE UNITS AS REQUIRED.
17. ALL ROOF TOP EQUIPMENT SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM THE ROOF'S EDGE.
18. MAINTAIN A MINIMUM 10'-0" BETWEEN OUTDOOR AIR INTAKES AND EXHAUST FAN DISCHARGE AND PLUMBING VENTS, ETC. FIELD COORDINATE.
19. H.V.A.C. DUCTWORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ASHRAE AND LATEST SMACNA STANDARDS. PROVIDE TURNING VANES IN ALL ELBOWS. DUCTWORK SHALL HAVE A MINIMUM PRESSURE CLASSIFICATION OF 2", SEAL CLASS C, WITH A MAXIMUM LEAKAGE RATE OF 5%.
20. PROVIDE TRANSITIONS AS REQUIRED TO CONNECT BRANCH DUCTWORK TO DIFFUSER NECK.
21. PROVIDE A MANUAL BALANCING DAMPER AT ALL SUPPLY AND RETURN BRANCH TAKEOFFS, IN ACCESSIBLE LOCATION OR WITH ACCESS DOOR.
22. FLEXIBLE CONNECTIONS SHALL BE USED AT ALL DUCT CONNECTIONS TO ROOFTOP UNITS, EXHAUST FANS AND CABINET HEATERS.
23. DUCTWORK DIMENSIONS NOTED ON DRAWINGS ARE EXTERIOR DIMENSIONS AND INCLUDE LINING.
24. INSTALL BOTTOM OF HORIZONTAL, EXPOSED DUCTWORK IN SALES AREAS AS HIGH AS POSSIBLE UP WITH-IN JOIST SPACE TO MAINTAIN MAXIMUM CLEARANCE. IF THIS IS NOT ACHIEVABLE THEN ALL DUCT WORK SHALL BE DESIGNED AND INSTALLED TIGHT TO BOTTOM OF STRUCTURE TO MAINTAIN MAXIMUM CLEARANCE. BOTTOM OF DIFFUSERS SHALL BE MOUNTED AS INDICATED ON DRAWING H1.0 (SO AS TO MAINTAIN CLEAR "LINE-OF-SIGHT" FROM MAIN VESTIBULE). IF THESE DIMENSIONS ARE NOT OBTAINABLE, CONTRACTOR SHALL COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ANY WORK.
25. INSTALL BOTTOM OF HORIZONTAL, EXPOSED DUCTWORK IN STOCK ROOMS AS HIGH AS POSSIBLE WITH DIFFUSERS MOUNTED AS INDICATED ON DRAWING H1.0. IF THESE DIMENSIONS ARE NOT OBTAINABLE, CONTRACTOR SHALL COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ANY WORK.
26. RETURN AIR DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE IN JOIST SPACE. CONTRACTOR SHALL REMOVE BAR JOIST BRACING AND INSTALL NEW BRACING PER STRUCTURAL ENGINEER REQUIREMENTS ONLY AFTER APPROVAL FROM STRUCTURAL ENGINEER. REFER TO STRUCTURAL DRAWINGS.
27. INSTALL BOTTOM OF DUCTWORK AND MANUAL VOLUME DAMPERS NO MORE THAN 24" ABOVE CEILING IN AREAS WITH LAY-IN CEILINGS.
28. THE BALANCING CONTRACTOR SHALL BALANCE AIR FLOW QUANTITIES TO WITHIN 5% OF THE DESIGN CONDITIONS LISTED ON PLANS. THIS CONTRACTOR SHALL INCLUDE ONE (1) ADDITIONAL SET OF BELTS AND SHEAVES AND REBALANCING FOR EACH SYSTEM FOR THE PROJECT. ALL OF THE ABOVE WORK SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
29. ALL PIPING, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND COUNTER-FLASHED IN A WATERPROOF MANNER.
30. SPRINKLER CONTRACTOR SHALL COORDINATE INSTALLATION OF SPRINKLER PIPING WITH DUCTWORK, LIGHTS, AND PARTITION LAYOUT. LIGHTS ARE NOT TO BE MOVED, SPRINKLER PIPING SHALL BE ROUTED AROUND LIGHTS AS REQUIRED.
31. FIELD COORDINATE EXACT LOCATION OF ALL THERMOSTATS AND TEMPERATURE SENSORS SO AS TO NOT BE DIRECTLY "BLOWN" ON AND NOT NEXT TO ANY HEAT PRODUCING EQUIPMENT. MOUNT THERMOSTATS AND TEMPERATURE SENSORS ON "BACK-SIDE" OF COLUMN. COORDINATE ALL LOCATIONS WITH SHELVING. REFER TO ELECTRICAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
32. SMOKE DETECTORS SHALL BE FIELD INSTALLED AND LOCATED IN THE SUPPLY AIR DUCT TO SHUT DOWN THE UNIT UPON ALARM. REMOTE INDICATOR ALARM AND KEY TEST SWITCH STATION PROVIDED BY ELECTRICAL CONTRACTOR FOR EACH UNIT. SMOKE DETECTOR SHALL BE WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR PER SITE-SPECIFIC CODE REQUIREMENTS.
33. HAIL GUARDS FOR ROOFTOP UNITS TO BE PROVIDED IN ALL DESIGNATED AREAS PER MANUFACTURER'S RECOMMENDATIONS.
34. ON PROJECTS WHERE THE OWNER (DICK'S SPORTING GOODS) IS PURCHASING AND SUPPLYING THE H.V.A.C. EQUIPMENT, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ACCEPTING OF EQUIPMENT, VERIFYING PROPER QUANTITIES, NOTING MISSING ITEMS ON THE BILL OF LADING (IF APPLICABLE) THOROUGHLY INSPECT ALL EQUIPMENT AND NOTE ANY AND ALL DAMAGES WHEN UNITS ARE RECEIVED ON THE BILL OF LADING. IF NOTHING IS NOTED ON THE BILL OF LADING, THE EQUIPMENT SHALL BE DEEMED RECEIVED INTACT.NO COMPONENTS MISSING/WITHOUT DAMAGE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY STORAGE (IF REQUIRED) AND ALL LABOR.LABOR WARRANTY. THE H.V.A.C. EQUIPMENT AND PARTS ARE THE RESPONSIBILITY OF THE H.V.A.C. EQUIPMENT MANUFACTURER, EXCLUDING ROUTINE MAINTENANCE, MAINTENANCE MATERIAL, AND AIR FILTERS AFTER OPENING.
35. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LENNOX FACTORY STARTUP OF ROOFTOP UNITS. MECHANICAL CONTRACTOR WILL RUN ALL TESTS TO PROVE THAT THE ROOFTOP UNITS ARE RUNNING CORRECTLY (CYCLING CORRECTLY, HEATING MODE, COOLING MODE, ECONOMIZER MODE, ETC.) PRIOR TO NOVAR EM SYSTEM START UP AND TESTING. VENDOR 16 IS RESPONSIBLE TO PROVIDE ALL WIRING FROM COMBINATION TEMPERATURE SENSORS TO ROOFTOP UNITS AND FINAL WIRING CONNECTION TO ROOFTOP UNITS. REFER TO EM DRAWINGS.
36. ALL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH U.L. LISTED FIRE RATED SEALANT TO COMPLY WITH MANUFACTURER'S INSTALLATION DETAILS. SEALANTS TO BE AS MANUFACTURED BY 3M, STI, OR APPROVED EQUAL.
37. CONTRACTORS BIDDING THIS PROJECT SHALL HAVE PRIOR EXPERIENCE WORKING IN THIS JURISDICTION AND MUST LIST ON BID FORM ANY LOCAL REQUIREMENTS THAT ARE NOT SHOWN ON THE DRAWINGS. SUBMISSION OF A BID SHALL BE EVIDENCE THAT THE CONTRACTOR'S BID INCLUDES ALL JURISDICTIONAL REQUIREMENTS.
38. GENERAL CONTRACTOR SHALL PROVIDE COMMISSIONING OF MECHANICAL AND ELECTRICAL SYSTEMS PER THE FLORIDA ENERGY CODE, C408. COMMISSIONING SHALL BE COMPLETED BY A CITY APPROVED COMMISSIONING AGENCY. GENERAL, MECHANICAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE ALL COMMISSIONING REQUIREMENTS WITH THE COMMISSIONING AGENT.
    A. COMMISSIONING AGENT SHALL DEVELOP A COMMISSIONING PLAN.
    B. H.V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH SPECIFICATIONS. MECHANICAL CONTRACTOR SHALL PROVIDE THE BALANCING CONTRACTOR'S FINAL, SIGNED, REPORT TO THE COMMISSIONING AGENT.
    C. H.V.A.C. EQUIPMENT AND LIGHTING SHALL BE TESTED FOR FUNCTIONAL PERFORMANCE. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL PROVIDE REPRESENTATIVES WITH EXPERTISE TO PARTICIPATE AND ASSIST THE COMMISSIONING AGENT IN THE TESTING OF EQUIPMENT AND LIGHTING.
    D. PRELIMINARY COMMISSIONING REPORT SHALL BE PROVIDED TO OWNER AND MADE AVAILABLE TO THE LOCAL CODE OFFICIAL UPON REQUEST.
    E. WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY, COMMISSIONING AGENT SHALL PROVIDE TO THE BUILDING OWNER A FINAL COMMISSIONING REPORT AND DOCUMENTATION OF ALL EQUIPMENT AND LIGHTING, INCLUDING CONTROLS AND SET POINTS. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL PROVIDE THE COMMISSIONING AGENT WITH THE FOLLOWING:
        - SUBMITTALS, INCLUDING ALL SELECTED OPTIONS FOR ALL H.V.A.C. EQUIPMENT, LIGHTING AND LIGHTING CONTROLS.
        - MANUFACTURER OPERATION MANUALS FOR ALL H.V.A.C. EQUIPMENT AND LIGHTING.
        - MANUFACTURER MAINTENANCE MANUALS FOR ALL H.V.A.C. EQUIPMENT AND LIGHTING.
        - NAME AND ADDRESS OF A SERVICE AGENCY.
        - MAINTENANCE AND CALIBRATION INFORMATION FOR CONTROLS, INCLUDING WIRING DIAGRAMS, SCHEMATICS, CONTROL SEQUENCE DESCRIPTIONS AND SET POINTS FOR ALL H.V.A.C. EQUIPMENT AND LIGHTING.
        - MANUFACTURER RECOMMENDED SCHEDULE FOR INSPECTION, MAINTENANCE AND RECALIBRATION OF H.V.A.C. EQUIPMENT, LIGHTING AND LIGHTING CONTROLS.
        - A NARRATIVE FOR HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SET POINTS.
    F. WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY, COMMISSIONING AGENT SHALL PROVIDE TO THE BUILDING OWNER DOCUMENTATION THAT INSTALLED LIGHTING IS COMPLIANT WITH SECTION C405.

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Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

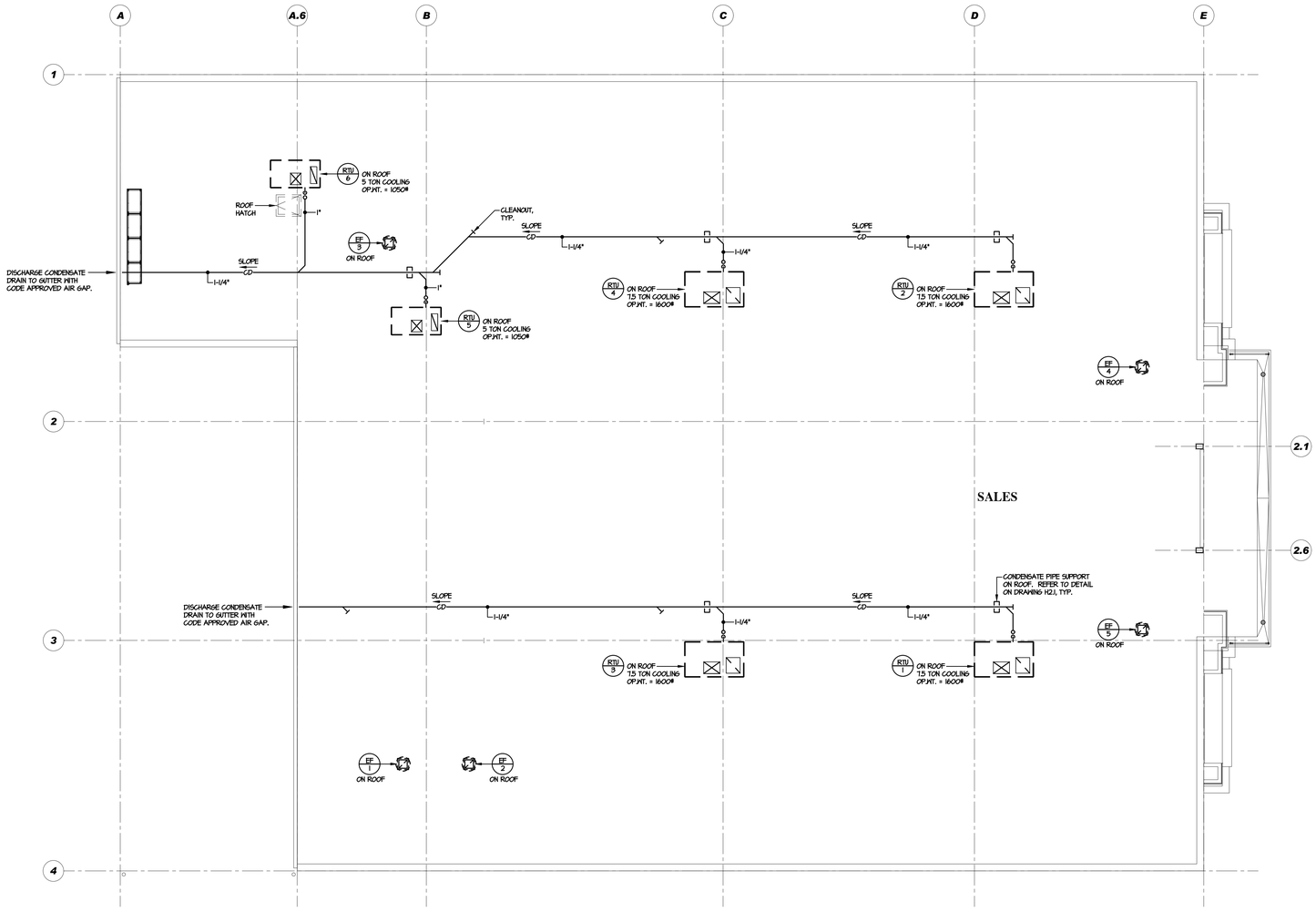
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
H.V.A.C. DETAILS AND NOTES

SHEET NUMBER:
H2.2

Mar 25, 2021 - 15:31:21 DWG Name: G:\Jobs\Fox\06GY FL Port St Lucie\12893_H2.2.dwg Updated By: mdavis



1 H.V.A.C. ROOF PLAN

SCALE 1/8" = 1'-0"

H.V.A.C. GENERAL NOTES:

A. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF ROOFTOP UNITS ON ROOF WITH STRUCTURAL ENGINEER. SECURE ROOF CURBS TO ROOF STRUCTURE AND FASTEN UNITS TO ROOF CURBS. SHIM CURBS AS REQUIRED SO UNITS SETS DEAD LEVEL. PROVIDE CURBS COMPATIBLE WITH ROOFING SYSTEM. INSTALL SUPPLEMENTAL SUPPORT STEEL AS REQUIRED TO FRAME OPENINGS AS DIRECTED BY STRUCTURAL ENGINEER. CUT OPENINGS THROUGH ROOF FOR DUCT CONNECTIONS. PROVIDE FLEXIBLE CONNECTIONS AT UNIT SUPPLY AND RETURN CONNECTIONS. OFFSET AND TRANSITION SUPPLY AND RETURN DUCTWORK AS REQUIRED TO AVOID STRUCTURE.

B. INSTALL CONDENSATE DRAINS WITH DEEP SEAL TRAP AND CLEANOUT AND TERMINATE AS INDICATED ON ROOF PLAN.

C. CUTTING OF ROOF, INSTALLATION OF CURBS, AND PATCHING OF ROOF SHALL BE BY OWNER'S ROOFING CONTRACTOR AND PAID FOR BY H.V.A.C. CONTRACTOR TO MAINTAIN ROOF WARRANTY.

D. ROOF CURBS SHALL HAVE A BASE THAT FITS SLOPE OF ROOF AS REQUIRED. TOP OF CURB SHALL BE LEVEL. REFER TO ARCHITECTURAL / STRUCTURAL PLANS FOR SLOPE AND STRUCTURE INFORMATION.

E. ALL ROOF TOP EQUIPMENT SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM THE ROOF'S EDGE.

F. MAINTAIN A MINIMUM 10'-0" BETWEEN OUTDOOR AIR INTAKES AND EXHAUST FAN DISCHARGE AND PLUMBING VENTS, ETC. FIELD COORDINATE.

G. ALL EQUIPMENT SHALL BE LABELED ACCORDING TO NUMBERING / IDENTIFICATION SYSTEM PER PLANS.

H. COORDINATE EXACT LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH STRUCTURAL PLANS, SPECIALLY-DESIGNED JOISTS, ETC.

McHenry & Associates Incorporated

MC&A

Consulting Engineers est. 1960

25001 Emery Road, Suite #200
Warrensville Heights, Ohio 44128
Phone: 216-292-4696
Fax: 216-292-5874
Email: mail@mchenryassociates.com
Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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FOX DESIGN GROUP

FL LICENSE: AA26003844
FOX DESIGN GROUP, LLC
7700 CHAGRIN ROAD, SUITE 1, 2ND FLOOR
SOLON, OH 44139
www.foxdesigngroup.net

GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

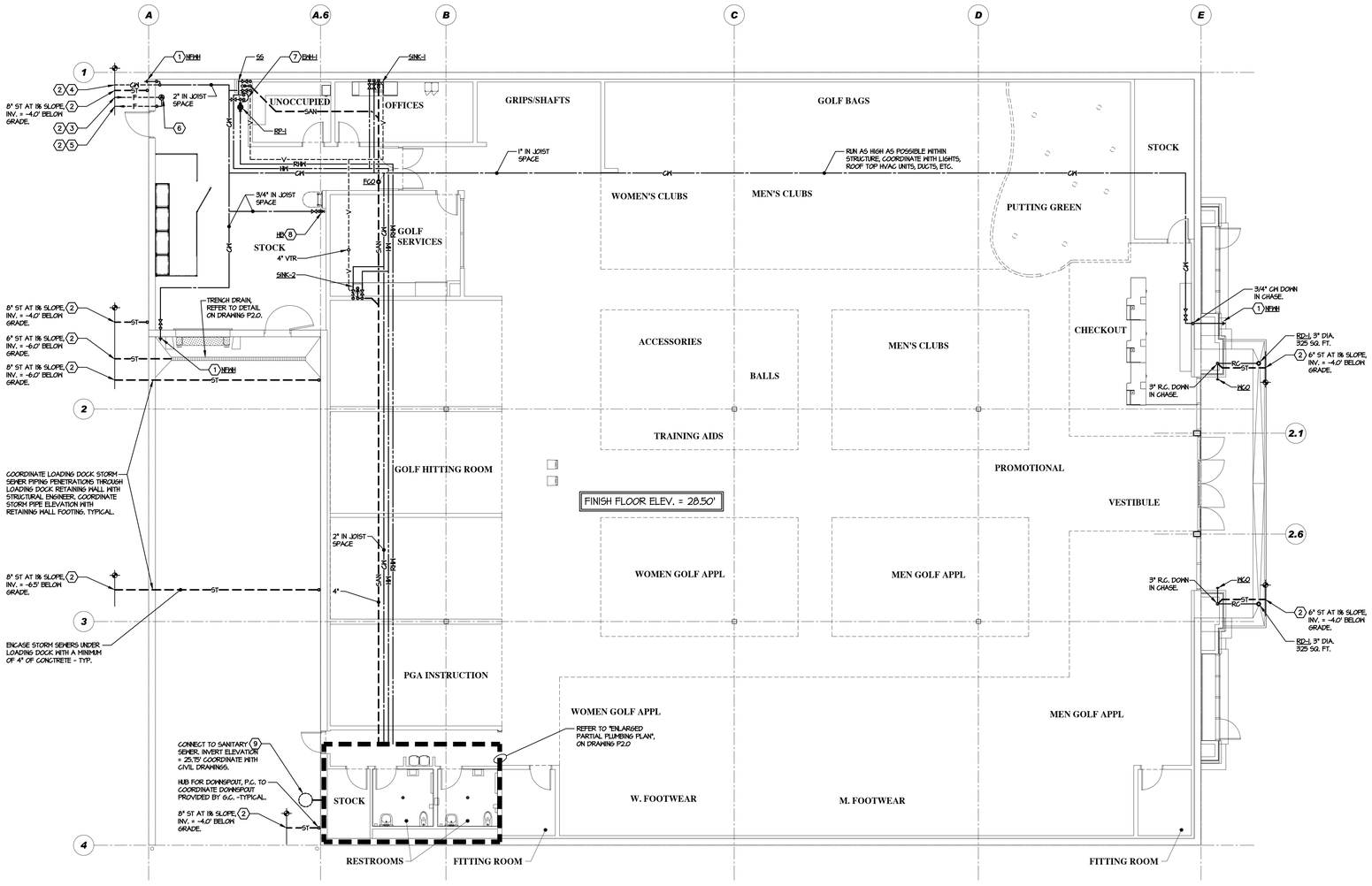
DRAWING:
H.V.A.C. ROOF PLAN

SHEET NUMBER:
H3.0

Mar 25, 2021 - 15:30:23 DWG Name: G:\Jobs\Fox\GGXY FL Port St Lucie\12933_HO3.0.dwg Updated By: mdavis

ALL PIPE PENETRATIONS OF SALES FLOOR WALLS SHALL BE ABOVE PAINT BREAK LINE.

NOTES:
A. REFER TO INCOMING WATER PIPING AND INCOMING FIRE PROTECTION SERVICE PIPING DIAGRAMS ON DRAWING P2.0 FOR ADDITIONAL INFORMATION.
B. DOMESTIC COLD WATER AND FIRE PROTECTION WATER METERS, BACKFLOW PREVENTERS AND FIRE DEPARTMENT CONNECTION LOCATED ON SITE. REFER TO CIVIL DRAWINGS FOR EXACT LOCATIONS.



1 PLUMBING FLOOR PLAN

SCALE 1/8" = 1'-0"

PLUMBING CODED NOTES:

1. PIPE DROP SHALL NOT BE INSTALLED IN EXTERIOR WALLS OR ANY OTHER LOCATION SUBJECT TO FREEZING.
2. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
3. 8" INCOMING FIRE PROTECTION SERVICE. F.P.C. TO PERFORM HYDRAULIC CALCULATIONS TO VERIFY SIZE REQUIRED. REFER TO DETAIL ON DRAWING P2.0. INSTALL PER ALL LOCAL AUTHORITY REQUIREMENTS. INSTALL TIGHT TO FENCE BEHIND BOLLARDS.
4. 2" INCOMING DOMESTIC WATER SERVICE. REFER TO DETAIL ON DRAWING P2.0. INSTALL TIGHT BEHIND BOLLARDS.
5. TO SITE FIRE DEPARTMENT CONNECTION.
6. SPRINKLER RISER WITH ALL 'UL' REQUIRED APPURTENANCES, INCLUDING FLOW SWITCH, REFER TO CGI DRAWINGS.
7. EWH-1 MOUNTED ON SHELF ABOVE SG, SHOWN OUT OF PLACE FOR CLARITY REFER TO DETAIL ON DRAWING P2.0.
8. HB AT ROOF HATCH TO BE IN JOIST SPACE AND WITHIN REACH OF A PERSON ON THE LADDER.
9. CONNECT TO SANITARY MANHOLE. MANHOLE PROVIDED BY SITE CONTRACTOR, REFER TO CIVIL DRAWINGS. MAKE CONNECTION PER ALL LOCAL AHJ REQUIREMENTS.

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
PLUMBING FLOOR PLAN

SHEET NUMBER:
P1.0

Mar 26, 2021 - 12:35:10 DWG Name: D:\Jobs\2021\Fox\GGXY\FL Port St Lucie\Drawings\01-Bid_Permit\12833_P1.0.dwg Updated By: olesiak

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

1. GENERAL AND SPECIAL CONDITIONS: GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THIS DIVISION OF THE SPECIFICATIONS INSOFAR AS SAME ARE APPLICABLE TO THE WORK UNDER THIS DIVISION AND UNLESS OTHERWISE SPECIFIED.
2. SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
3. PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
4. WARRANTY: PROVIDE ALL MATERIALS AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.
5. COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC. TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO CHARGE TO THE OWNER. COORDINATE INSTALLATION OF ALL PLUMBING LINES AT CMU WALLS SO THAT PLUMBING LINES ARE PLACED IN WALL DURING CMU WALL CONSTRUCTION. CUTTING AND PATCHING OF CMU WALLS IN PLACE WILL NOT BE PERMITTED.
6. FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.
7. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
   - PLUMBING FIXTURES AND EQUIPMENT
   - FIRE STOPPING
   - DOMESTIC WATER SYSTEM
   - SANITARY WASTE AND VENT SYSTEM
   - ROOF / STORM DRAINAGE

DOMESTIC WATER PIPING:

1. FURNISH AND INSTALL A COMPLETE SYSTEM OF HOT AND COLD WATER, AND WASTE PIPING FROM EXISTING SUPPLIES TO ALL FIXTURES AND/OR EQUIPMENT REQUIRING THIS SERVICE. VERIFY LOCATION OF POINT OF CONNECTION TO ALL UTILITIES, NEW AND EXISTING.
2. DOMESTIC WATER PIPING BELOW GRADE:
   TYPE K COPPER, ANNEALED.
3. DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE:
   SCHEDULE 40 CPVC PIPE WITH GLUED FITTINGS.
4. STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATIONS SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
5. INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH ENGINEERED POLYMER FOAM INSULATION OR FIBERGLASS WITH FITTING INSERTS AND PVC COVERS. FOLLOW THIS SCHEDULE:

SERVICE	PIPE SIZE	INS. THICKNESS
DOMESTIC HOT WATER	BRANCH LINES	1"
DOMESTIC TEMPERED WATER	MAINS	1"
DOMESTIC COLD WATER	ALL	1/2"

6. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD.
7. DO NOT INSTALL DOMESTIC WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL WATER PIPING IN INTERIOR WALLS ABUTTING EXISTING EXTERIOR WALLS.
8. SHUT OFF VALVES: PROVIDE FULL PORT, BALL TYPE, AND INSTALL IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS AS REQUIRED.
9. PROTECT CPVC PIPING AGAINST CONTACT WITH MASONRY. WHERE CPVC IS SLEEVED THROUGH MASONRY, PROVIDE METALLIC SLEEVES.
10. LABEL ALL WATER PIPING, IDENTIFYING TYPE OF SERVICE.

FIXTURES:

1. PROVIDE COMPLETE FIXTURES WITH TRIM AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.

FIRE STOPPING:

1. FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN "F" RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.

SANITARY WASTE AND VENT PIPING:

1. FURNISH AND INSTALL COMPLETE SYSTEMS OF SOIL, WASTE, AND VENT PIPING FROM ALL PLUMBING FIXTURES, AND/OR OTHER EQUIPMENT. ALL SOIL, WASTE AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
2. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE WASTE PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED.
3. SANITARY WASTE AND VENT PIPING AND FITTINGS: SERVICE WEIGHT CAST IRON, HUB AND SPIGOT TYPE WITH COMPRESSION JOINTS (ASTM A 74) OR NO-HUB PIPING WITH COUPLINGS (CISPI 301).
4. IF PERMITTED BY LOCAL CODES, SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET-TYPE PIPE FITTINGS (ASTM D 3311) MAY BE USED. DO NOT INSTALL PVC PIPING IN RETURN AIR PLENUMS.
5. SLOPE SANITARY WASTE PIPING 2 1/2" AND SMALLER AT 1/4" PER FOOT MIN. SLOPE SANITARY WASTE PIPING 3" AND LARGER AT 1/8" PER FOOT SLOPE MINIMUM.
6. WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTERNAL CLEAN-OUT PLUG FOR ALL LAVATORIES.
7. INSTALL CLEAN-OUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS AT EACH CHANGE IN DIRECTION.

SEISMIC REQUIREMENTS:

1. PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

STORM DRAIN PIPING:

1. PROVIDE COMPLETE STORM WATER DRAINAGE SYSTEM AS INDICATED ON DRAWINGS. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE STORM PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED.
2. STORM DRAIN PIPING AND FITTINGS:
   SERVICE WEIGHT CAST IRON, HUB AND SPIGOT TYPE WITH COMPRESSION JOINTS (ASTM A 74) BELOW GRADE AND/OR NO-HUB PIPING WITH COUPLINGS (CISPI 301) ABOVE GRADE.
3. IF PERMITTED BY LOCAL CODES, SCHEDULE 40 DWV PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET-TYPE PIPE FITTINGS (ASTM D 3311) MAY BE USED BELOW FIRST FLOOR SLAB.
4. STORM DRAIN PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD.
5. INSTALL CLEAN-OUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.
6. PROVIDE EACH DOWN SPOUT WITH A CLEAN OUT AT 24" ABOVE FINISHED GRADE.
7. PROVIDE PVC JACKET OVER INSULATION ON INTERNAL RAIN CONDUCTORS. ASTM C921, ONE PIECE MOLDED TYPE FITTING COVERS AND SHEET MATERIAL, OFF WHITE COLOR. INSTALL AS RECOMMENDED BY COVERING MANUFACTURER.

PLUMBING LEGEND (NOT ALL ITEMS USED)

	EXISTING UTILITY AS INDICATED
—SAN—	SANITARY SEWER BELOW GRADE
—SAN—	SANITARY SEWER ABOVE GRADE
—ST—	STORM SEWER BELOW GRADE
—V—	SANITARY VENT
—CW—	DOMESTIC COLD WATER
—HW—	DOMESTIC HOT WATER
—RHW—	DOMESTIC RECIRCULATING HOT WATER
—CD—	CONDENSATE DRAIN
—G—	NATURAL GAS, LOW PRESSURE
—RPG-2#—	REGULATED PRESSURE GAS-2#
—D—	DRAIN
—F—	FIRE PROTECTION
—CA—	COMPRESSED AIR
	SHUT OFF VALVE
	BALANCING VALVE
	CHECK VALVE
	GAS SHUT OFF VALVE
	GAS PRESSURE REDUCING REGULATOR VALVE
CTX	CONNECT TO EXISTING
	POINT OF CONNECTION
	INDICATES CODED NOTE
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
VTR	VENT THRU ROOF
FCO	FLOOR CLEAN OUT
GCO	GRADE CLEAN OUT
WCO	WALL CLEAN OUT
FD	FLOOR DRAIN
PRV	PRESSURE REDUCING VALVE
BFP	BACKFLOW PREVENTER
INV.	INVERT
A.F.F.	ABOVE FINISHED FLOOR
M.V.	MIXING VALVE (THERMOSTATIC)

BASED ON THE FLORIDA PLUMBING CODE

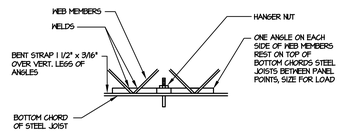
WATER SUPPLY FIXTURE UNITS				
MARK	DESCRIPTION	FIXTURE UNITS	QUANTITY	TOTAL F.U.
WC-B	HANDICAPPED WATER CLOSET	10.0	2	20.0
LAV-B	HANDICAPPED LAVATORY	2.0	2	4
SINK-1 & SINK-2	LOUNGE SINK	1.4	2	2.8
SS	SERVICE SINK	3.0	1	3.0
EWC	WATER COOLER	0.25	2	0.5
		TOTAL		30.3

NOTE:
2" CW REQUIRED, MAXIMUM WSFU ON 2" = 140 WSFU

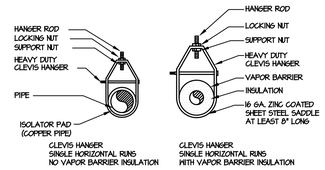
BASED ON THE FLORIDA PLUMBING CODE

SANITARY FIXTURE UNITS				
MARK	DESCRIPTION	FIXTURE UNITS	QUANTITY	TOTAL F.U.
WC-B	HANDICAPPED WATER CLOSET	4	2	8
LAV-B	HANDICAPPED LAVATORY	1	2	2
SINK-1 & SINK-2	LOUNGE SINK	2	2	4
SS	SERVICE SINK	3	1	3
EWC	WATER COOLER	0.5	2	1
FD-1	FLOOR DRAIN	2	2	4
		TOTAL		22

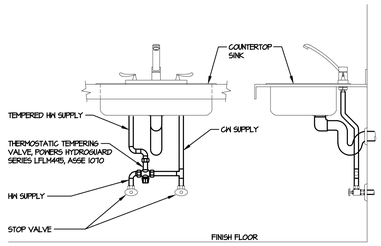
NOTE:
4" SANITARY REQUIRED, MAXIMUM DFU ON 4" = 180 DFU



1 PIPE HANGER DETAIL
SCALE: NONE



2 PIPE SUPPORT DETAIL
SCALE: NONE

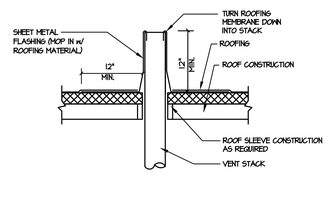


NOTE:

A. INSULATE ALL EXPOSED WASTE AND SUPPLY PIPING UNDER SINK WITH LAV GUARD JE-Z SERIES PIPE COVERS BY TRUEBRO OR EQUAL.

B. REFER TO ARCHITECTURAL DRAWINGS FOR ADA CLEARANCES.

3 BREAK ROOM/GOLF SERVICES SINK DETAIL
SCALE: NONE

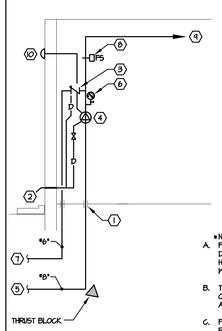


NOTES:

A. ALL ROOF PENETRATIONS TO BE MADE SHALL BE IN COMPLIANCE WITH ANY EXISTING ROOF WARRANTIES.

B. ANY VENT THAT IS WITHIN 10' OF ANY DOOR, WINDOW OR EXHAUST OPENING SHALL EXTEND NOT LESS THAN 3" ABOVE SUCH.

4 VENT THRU ROOF DETAIL
SCALE: NONE



CODED NOTES:

1. SLEEVE AND SEAL THROUGH FLOOR.
2. SYSTEM DRAIN PIPED THROUGH EXTERIOR WALL AND TURNED DOWN 45 DEGREES TO SPLASH BLOCK.
3. ISOLATION CHECK VALVE WITH AUTO BALL DRIP.
4. "UL" LISTED ALARM CHECK VALVE.
5. INCOMING FIRE PROTECTION WATER SUPPLY.
6. PRESSURE GAUGE.
7. TO SITE FIRE DEPARTMENT CONNECTION.
8. FLOW SWITCH FURNISHED AND INSTALLED BY F.P.C., WIRED BY E.C.
9. TO FIRE PROTECTION SYSTEM.
10. WATER MOTOR ALARM BELL WITH RETARD CHAMBER.

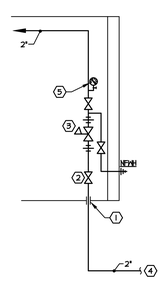
NOTES:

A. FIRE PROTECTION WATER SERVICE SIZE TO BE DETERMINED BY FIRE PROTECTION CONTRACTOR BY HYDRAULIC CALCULATIONS PRIOR TO THE START OF WORK.

B. THIS DIAGRAM IS INTENDED TO DEFINE THE OVERALL SCOPE OF WORK AND MAY NOT INDICATE ALL APPURTENANCES REQUIRED BY NFPA 13.

C. FIRE PROTECTION METER, BACKFLOW PREVENTER, PIV AND FIRE DEPARTMENT CONNECTION LOCATED ON SITE. REFER TO CGI AND CIVIL DRAWINGS FOR MORE INFORMATION.

5 INCOMING FIRE PROTECTION SERVICE PIPING DIAGRAM
SCALE: NONE



CODED NOTES:

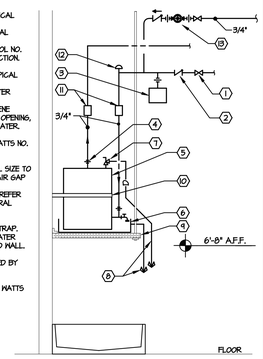
1. SLEEVE AND SEAL THROUGH FLOOR.
2. SHUT OFF VALVE.
3. PRESSURE REDUCING VALVE, WATTS NO. U5B, SET PRESSURE AT 60 PSI. REQUIRED IF STATIC PRESSURE IS 80 PSI OR HIGHER.
4. NEW INCOMING WATER SERVICE.
5. PRESSURE GAUGE

NOTE:
DOMESTIC WATER METER AND BACKFLOW PREVENTER LOCATED ON SITE. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.

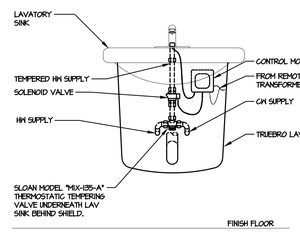
6 INCOMING WATER SERVICE PIPING DIAGRAM
SCALE: NONE

CODED NOTES:

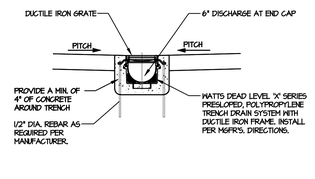
1. SHUT OFF VALVE - TYPICAL
2. CHECK VALVE - TYPICAL
3. EXPANSION TANK AMTROL NO. ST-5 WITH UNION CONNECTION.
4. DIELECTRIC UNION - TYPICAL
5. 10 GALLON WATER HEATER
6. 2-1/2" DEEP POLYSTYRENE DRAIN PAN WITH DRAIN OPENING, SIZED TO FIT BELOW HEATER.
7. T & P RELIEF VALVE WATTS NO. 100XL-4-125.
8. PIPE RELIEF DRAIN FULL SIZE TO JANITOR SINK WITH 2" AIR GAP
9. MOUNT ON PLATFORM. REFER TO DETAIL ON STRUCTURAL DRAWINGS.
10. 26 GA. GALV. METAL STRAP. WRAP ONCE AROUND WATER HEATER AND SECURE TO WALL.
11. HEAT TRAP AS REQUIRED BY LOCAL AUTHORITIES.
12. VACUUM RELIEF VALVE, WATTS MODEL N36-M, 3/4".
13. RECIRCULATOR PUMP



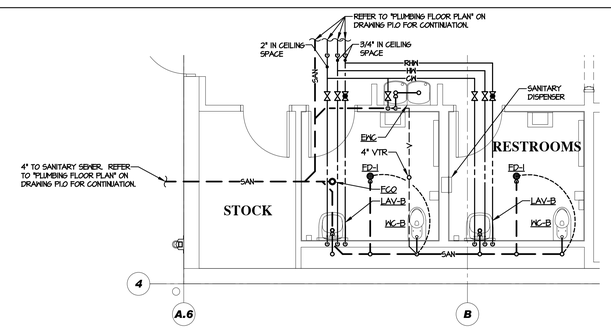
WATER HEATER EWH-1 PIPING DIAGRAM
7 SCALE: NONE



RESTROOM LAV SINK TEMPERING VALVE DETAIL
8 SCALE: NONE



TRENCH DRAIN DETAIL
9 SCALE: NONE



NOTES:

A. TRANSFORMER FOR AUTOMATIC FAUCET IN GROUP TOILETS SHALL BE LOCATED ABOVE LAY-IN CEILING OVER CORRIDOR. FIELD COORDINATE LOCATION WITH E.C.

B. FLOOR DRAINS TO HAVE TRAP PRIMER VALVES.

10 ENLARGED PARTIAL PLUMBING PLAN
SCALE 1/4" = 1'-0"

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EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
PLUMBING ENLARGED PLAN, DETAILS & NOTES

SHEET NUMBER:
P2.0

Mar 26, 2021 - 12:51:14 DWG Name: D:\Jobs\2020\Fox\66KYYFL Port St Lucie\Drawings\01-BID_Permit\12693_P2.0.dwg Updated By: oleksik

DRAINS, CLEANOUTS & MISC. ITEMS

MARK	ITEM	MAKE	MODEL	LOCATION	SIZE	BODY	TOP	REMARKS
FD-1	FLOOR DRAIN	J.R. SMITH	2005-6A SERIES	SEE PLANS	AS NOTED	CAST IRON	NICKEL BRONZE	NICKEL BRONZE FLAT STRAINER AND 1/2" TRAP PRIMER TAP.
FCO	CLEANOUT	J.R. SMITH	4020 SERIES	FLOOR TYPE	AS NOTED	CAST IRON	NICKEL BRONZE	
WCO	CLEANOUT	J.R. SMITH	4402 SERIES	WALL TYPE	AS NOTED	CAST IRON	STAINLESS STEEL	WITH STAINLESS STEEL ACCESS COVER AS REQUIRED
WFNH	WALL HYDRANT	J.R. SMITH	550492T SERIES	EXTERIOR WALL	3/4"	BRONZE	STAINLESS STEEL	NON-FREEZE WITH VACUUM BREAKER, 3/4" N.P.T. OUTLET, 3/4" INLET IN STAINLESS STEEL WALL BOX.
HB	HOSE BIBB	CHICAGO	952 WITH 3/4" HOSE THREAD	BY ROOF HATCH	3/4"	BRONZE	CHROME PLATED	CHROME PLATE FINISH. INTERGRAL VACUUM BREAKER. REMOVABLE "T" HANDLE.
RD-1	CANOPY ROOF DRAIN	J.R. SMITH	1330 SERIES	SEE PLANS	AS NOTED	CAST IRON	ALUMINUM	8-1/2" DIAMETER WITH DECK CLAMP, ALUMINUM DOME AND DRAIN RECEIVER

WATER HEATER

MARK	ITEM	MAKE	MODEL	TANK SIZE	FUEL	INPUT	RECOVERY	OPERATING TEMPERATURE	ELECTRIC	REMARKS
EWH-1	WATER HEATER	A.O. SMITH	DEL-10	10 GAL	ELECT.	2.0 KW	10 GPH @ 140 F	110 F	208/1/60	PROVIDE T&P RELIEF VALVE AND AMTROL EXPANSION TANK #ST-5.

NOTES:
NO SUBSTITUTIONS TO THE WATER HEATER SCHEDULE IS PERMITTED.

ELECTRIC WATER COOLERS

MARK	ITEM	MAKE	MODEL	TYPE	NAME	CAPACITY	COMPRESS.	CONDENSER	HORSE POWER	ELECTRIC	REMARKS
EWC	WATER COOLER	ELKAY	EZS11LGC	WALL MOUNTED	BI-LEVEL	7.8 GPH	7.8 GPH @ 80 F	AIR COOLED	1/5	115/1/60	WALL HUNG, STEEL CABINET, STAINLESS STEEL TOP FRONT AND SIDE PUSH BARS. MOUNT AT HEIGHT PER ARCHITECTURAL DRAWINGS.

NOTES:
NO SUBSTITUTIONS TO THE ELECTRIC WATER COOLERS SCHEDULE IS PERMITTED.

PLUMBING PUMPS

MARK	SERVING	MAKE	MODEL	LOCATION	HEAD	GPM	RPM	H.P.	ELECTRIC	REMARKS
RP-1	EWH-1	TACO	006	SEE PLANS	5 TDH	5	3250	1/40	120/1/60	ALL BRONZE RECIRCULATION PUMP WITH AQUASTAT. PROVIDE SPARE REPLACEABLE CARTRIDGE.

NOTES:
NO SUBSTITUTIONS TO THE PLUMBING PUMPS SCHEDULE IS PERMITTED.

1. AQUA-STAT TO BE WITH 24V THERMOSTAT AND TRANSFORMER. CONTACTS RATED AT 7.4 AMPS AT 120V-1-60.

PLUMBING FIXTURES

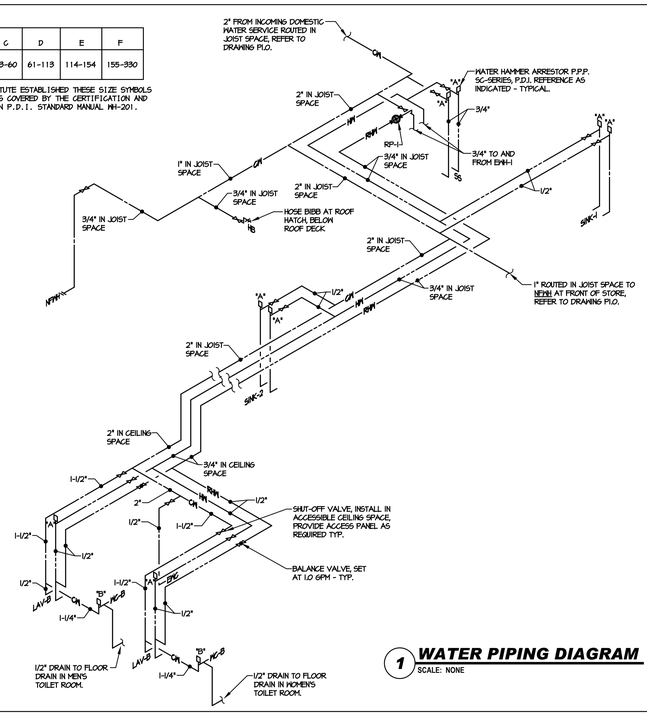
MARK	ITEM	MAKE	NAME	MODEL	TRIM	TRAP	STOPS	CONNECTIONS WASTE	CONNECTIONS VENT	CONNECTIONS HW	CONNECTIONS CW	REMARKS
WC-B	WATER CLOSET	AMERICAN STANDARD	AFWALL 1.6 GPF	2257.101	SLOAN III-SWO-1.6-TP	INTEGRAL	INTEGRAL	4"	2"	-	1"	WALL HUNG, #100 OLSONITE OPEN FRONT SEAT, NO COVER, WALL MOUNTED WITH FLOOR MOUNTED FIXTURE SUPPORT, NOTE #6, #7 & #8.
LAV-B	LAVATORY	AMERICAN STANDARD	MURRO	0784.004EC	SLOAN #ETF600-B	NOTE #5	NOTE #5	1-1/2"	1-1/2"	1/2"	1/2"	WITH FLOOR MOUNTED CONCEALED ARM CARRIER, ELECTRONIC FAUCET WITH 3/8" SUPPLIES, NOTES #5, 6, 9 & 10.
SINK-1 SINK-2	KITCHEN SINK	ELKAY	LUSTERTONE	LRAD-1914-65 -3	COLONY 4215.500	NOTE #3	NOTE #4	1-1/2"	1-1/2"	1/2"	1/2"	FAUCET - HDCP, STRAINER CUP. 3/8" SUPPLIES .
SS	SERVICE SINK	FIAT	MOLDED STONE	MSB-2424	AMERICAN STANDARD 8354.12	3"	1/2" VALVES	3"	1-1/2"	3/4"	3/4"	FAUCET WITH INTEGRAL STOPS, TOP BRACE SPOUT WITH BUCKET HOOK, HOSE END AND VACUUM BREAKER. ROUGH CHROME FINISH.

NOTES:
NO SUBSTITUTIONS TO THE PLUMBING FIXTURE SCHEDULE IS PERMITTED.

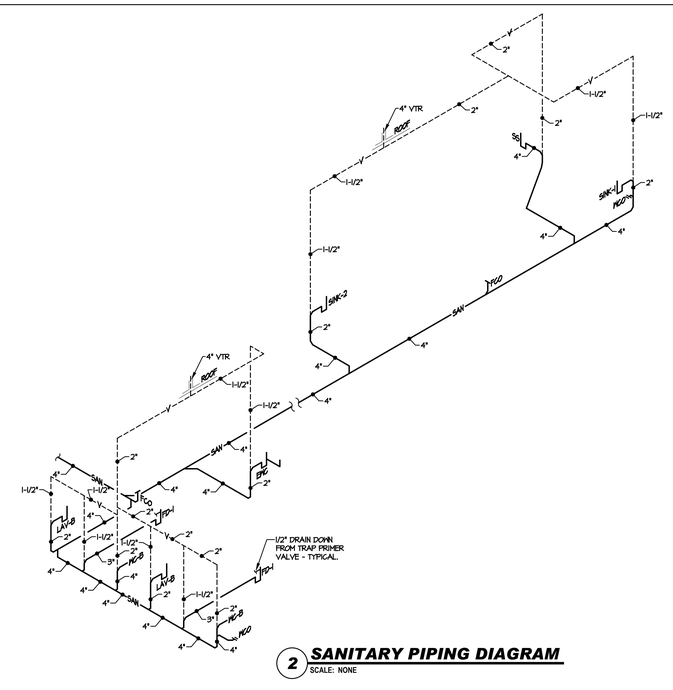
1. INSTALL SERVICE, SHUTOFF & CHECK VALVES, COCKS, STOPS, AIR CUSHIONS, VACUUM BREAKERS, AND SAFETY DEVICES WHERE REQUIRED BY CODE, SPECIFICATIONS, OR DRAWINGS. NO VALVES SHALL BE INSTALLED ABOVE SOLID CEILINGS.
2. ALL CATALOG NOS. REFER TO AMERICAN STANDARD UNLESS NOTED AND ALL FIXTURES IN WHITE UNLESS NOTED.
3. P-TRAPS TO BE 17 GA. CHROME PLATED WITH CLEANOUT AND ESCUTCHEON PLATE, COVER WITH TRUEBRO LAV GUARD 2E-Z SERIES COVERS.
4. STOPS TO BE CHROME PLATED 1/2" ANGLE VALVE WITH CHROME PLATED 12" LONG, 1/2" O.D. FLEXIBLE RISER AND ESCUTCHEON PLATE, COVER WITH TRUEBRO LAV GUARD 2E-Z SERIES COVERS.
5. ALL DRAINS AND WATER SUPPLY PIPING TO LAVATORIES TO BE CONCEALED IN TRUEBRO LAV SHIELD.
6. MOUNT AT ADA HEIGHT.
7. PROVIDE SLOAN VBF-12-A1 (TYP. OF 2) FLUSH TRAP PRIMER WITH FLUSH VALVE. DRAIN PIPES FROM TRAP PRIMER VALVES TO BE PITCHED 1/2% MIN. FROM VALVE TO FLOOR DRAIN.
8. ALL VITREOUS CHINA FIXTURES SHALL BE WHITE.
9. PROVIDE SLOAN MODEL "B" TRANSFORMER, 120 VOLT/24 VOLT, HARD WIRED TYPE TO OPERATE FAUCETS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRING FROM TRANSFORMER TO FAUCET.
10. PROVIDE SLOAN MODEL "MIX-135-A" THERMOSTATIC TEMPERING VALVE UNDERNEATH LAV SINK BEHIND TRUEBRO LAV SHIELD.

P.D.I. SYMBOLS	A	B	C	D	E	F
FIXTURE UNIT RATING	1-11	12-32	33-60	61-113	114-154	155-330

PLUMBING AND DRAINAGE INSTITUTE ESTABLISHED THESE SIZE SYMBOLS TO CORRESPOND TO THOSE UNITS COVERED BY THE CERTIFICATION AND TESTING PROGRAM DESCRIBED IN P.D.I. STANDARD MANUAL MH-201.



1 **WATER PIPING DIAGRAM**
SCALE: NONE



2 **SANITARY PIPING DIAGRAM**
SCALE: NONE

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WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

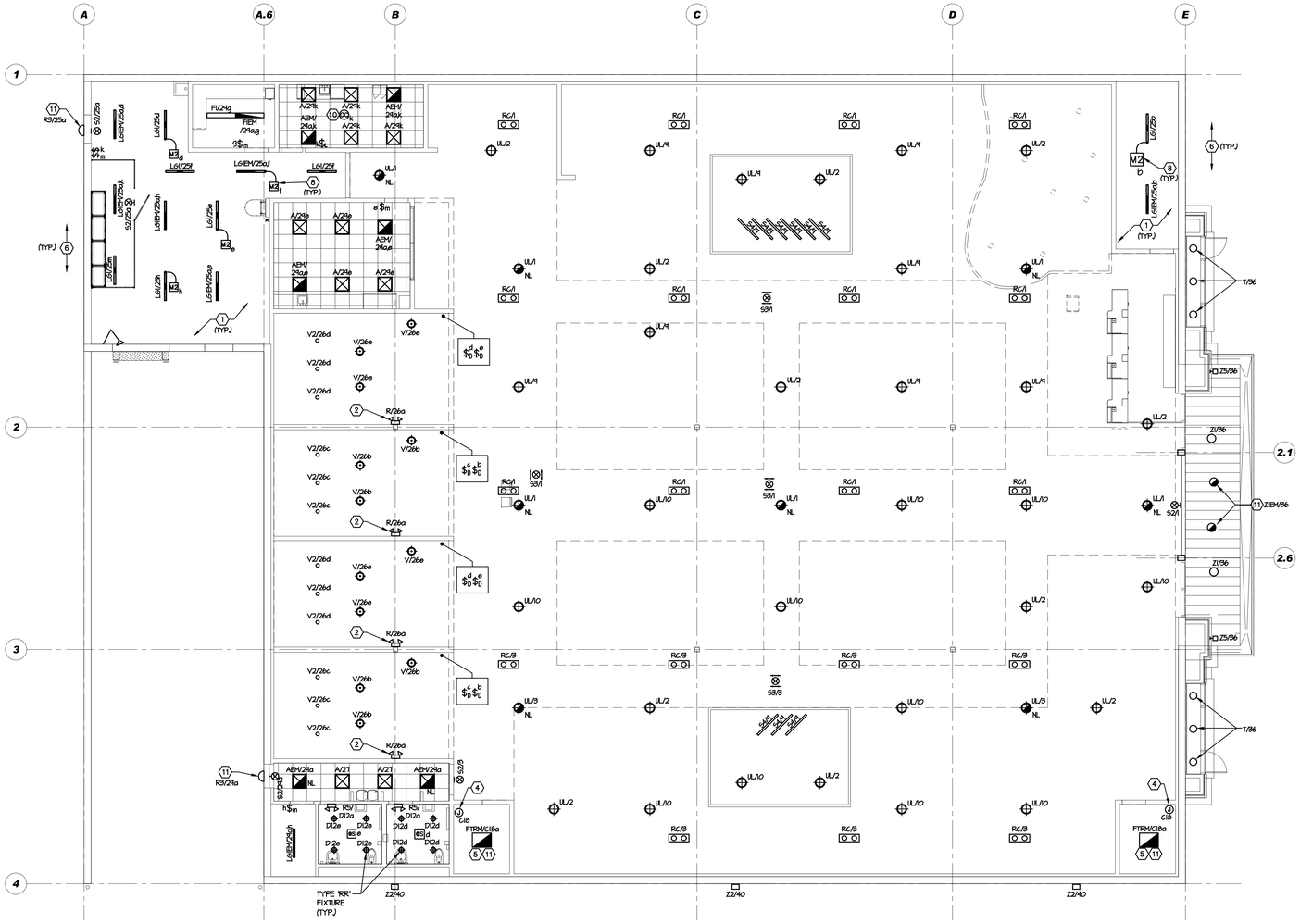
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
PLUMBING SCHEDULES & DIAGRAMS

SHEET NUMBER:
P2.1

Mar 26, 2021 - 12:54:02 DWG Name: D:\Jobs\2021\Fox\66XX\FL Port St Lucie\Drawings\01-Bid_Permit\128373_P2.1.dwg Updated By: aleisak



1 LIGHTING PLAN

SCALE 1/8" = 1'-0"

GENERAL LIGHTING NOTES:

A. SEE DETAIL 1/ES.0A FOR INSTALLATION OF "UL" TYPE FIXTURES. MOUNT @ 17'-0" A.F.F. TO UNDERSIDE OF FIXTURE.

B. PENDANT MOUNT TYPE "RG" EMERGENCY LIGHT FIXTURES IN SALES AREA SHALL BE MOUNTED @ 17'-0" A.F.F. TO BOTTOM OF FIXTURE. FIXTURES SHALL BE MOUNTED FACE DOWN WITH MOUNTING JUNCTION BOX ON BACK.

C. ALL LIGHT FIXTURES ARE CONTROLLED BY ENERGY MANAGEMENT SYSTEM. SEE SHEET ES.1 FOR ENERGY MANAGEMENT CONTROL SCHEDULE.

D. ELECTRICAL CONTRACTOR SHALL VERIFY THE PROPER MOUNTING HEIGHT OF THE EMERGENCY FIXTURES WITH THE LOCAL FIRE MARSHALL PRIOR TO INSTALLATION.

E. REFER TO DRAWING E2.0 FOR ROOM/AREA NAMES.

F. MAINTAIN 10 FT. CLEARANCE IN FRONT AND 4 FT. CLEARANCE TO EITHER SIDE FOR TYPE "UL" FIXTURES NEAR TVS, EXCEPT AT CASHWRAP.

G. SEE LIGHT FIXTURE SCHEDULE ON DRAWING E4.0.

H. REFER TO BRANCH CIRCUITING GENERAL NOTES ON DRAWING E4.0 FOR BRANCH CIRCUIT SIZING INFORMATION.

I. REFER TO DIMENSIONED LIGHTING PLAN ON DRAWING E1.0A FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL LIGHT FIXTURES. COORDINATE WITH ARCHITECTS REFLECTED CEILING PLAN ON SHEET A3.0 PRIOR TO ROUGH-IN.

J. ALL CONDUITS RUN IN EXPOSED CEILING AREAS SHALL BE RUN WITH STRUCTURE TIGHT TO UNDER SIDE OF ROOF DECKING IN ACCORDANCE WITH N.E.C. ARTICLE 300.4(E).

K. PROVIDE ADDITIONAL EXIT SIGNS THROUGHOUT STORE AS DIRECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

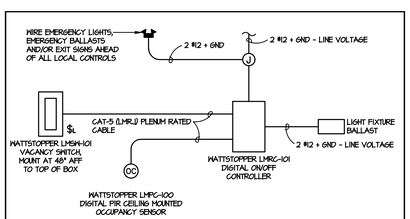
CODED NOTES: ⬡

1. MOUNT TYPE "L61" AND "L61EM" FIXTURES IN STOCK ROOM @ 15'-0" AFF (BETWEEN SHELVING). E.C. SHALL PROVIDE UNISTRUT AT STRUCTURE ABOVE TO CHAIN-HANG FIXTURES AT HEIGHT INDICATED. PROVIDE CHAIN AND ALL NECESSARY MOUNTING HARDWARE. POWER SHALL BE ROUTED FROM JUNCTION BOX AT UNISTRUT DOWN THROUGH MC CABLE ZIP-TIED TO CHAIN TO FIXTURE. (TYPICAL)
2. EM WALL PACKS SHALL BE MOUNTED AT 12'-0" TO BOTTOM OF FIXTURE.
3. ELECTRICAL CONTRACTOR TO COORDINATE ALL REQUIREMENTS FOR INSTALLATION OF LIGHT FIXTURES AND ROUTING OF ELECTRICAL IN PREFABRICATED FITTING ROOMS WITH VENDOR #1.
4. ELECTRICAL CONTRACTOR SHALL WIRE MIRROR LIGHTING PER MANUFACTURER'S INSTRUCTIONS. JUNCTION BOX SHALL BE CONCEALED BEHIND MIRROR.
5. COORDINATE EXACT LOCATION OF PENDANT FIXTURES IN THE FITTING ROOMS WITH THE DIGK'S SPORTING GOOD REPRESENTATIVE PRIOR TO ROUGH-IN. POWER SHALL BE ROUTED TO FIXTURE THROUGH PORTAL WALLS FROM THE BELOW GRADE CONDUIT ROUTED TO PORTAL.
6. ROUTE ALL CONDUITS CONCEALED ON INSIDE FACE OF BUILDING WALL. NO EXPOSED CONDUITS ON EXTERIOR WALL. (TYP.).
7. PROVIDE JUNCTION BOX IN JOIST SPACE FOR CONNECTION TO VALENCE SHELF LIGHTING MOUNTED IN SHELF FIXTURING. ROUTE CIRCUITS FROM JUNCTION BOX TO SHELF LIGHTING USING MC CABLE INSIDE WALL AND STUB OUT A 4' WHIP BETWEEN 10'-8" AFF AND 11'-0" AFF. WHIP LENGTHS SHALL BE ADJUSTED IN THE FIELD AS REQUIRED TO BE CONCEALED WITHIN SHELF. COORDINATE LOCATIONS OF SHELVING WITH ARCHITECTURAL ELEVATIONS ON DRAWING A12.4 AND VENDOR #1. ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND WIRE LIGHT FIXTURES. PURCHASE LIGHT FIXTURES FROM VENDOR #1B. (TYPICAL)
8. STOCKROOM OCCUPANCY SENSOR TO BE INSTALLED DIRECTLY TO END OF FIXTURE VIA KNOCKOUT ON THE FIXTURE HOUSING.
9. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND WIRING FLUORESCENT STRIP FIXTURES (APPROXIMATELY QTY-000) IN GOLF DISPLAY VALENCE. SEE ARCHITECTS A12.4 SERIES DRAWINGS FOR VALENCE LOCATIONS. (XX) 3' AND (XX) 4' LIGHT FIXTURES ARE TO BE INSTALLED IN A CONTINUOUS ROWS INSIDE THE ENTIRE LENGTH OF THE VALENCE, INCLUDING BOTH LEVELS OF VALENCE WHERE REQUIRED. FIXTURES PROVIDED BY VENDOR #1B.
10. LIGHTING IN THIS ROOM TO BE MANUAL-ON WITH AUTOMATIC VACANCY DETECTION. REFER TO LIGHTING ROOM CONTROLLER DIAGRAM 2/E1.0 FOR INSTALLATION OF VACANCY DETECTION SYSTEM IN THIS ROOM.
11. ELECTRICAL CONTRACTOR SHALL WIRE EMERGENCY BATTERY OF FIXTURE TO NON-CONTROLLED SIDE OF SWITCHABLE CIRCUIT BREAKER.

LEGEND

$a,$b,$c,$d — SWITCH LEG DESIGNATION	LIGHT FIXTURE TYPE
	CIRCUIT #
	SWITCH LEG
	EMERGENCY W/ BATTERY BACKUP
OS Oc	NIGHT LIGHT

NOTES:
1. SWITCH LEG DESIGNATIONS ARE MATCHED BETWEEN CONTROL DEVICES AND LIGHT FIXTURES LOCATED IN THE SAME ROOM UNLESS NOTED OTHERWISE. CONTACT ENGINEER IF CLARIFICATION IS REQUIRED.
2. SUBSCRIPT 'o' DENOTES FIXTURE TO RECEIVE AN ADDITIONAL UNSWITCHED HOT LEG ROUTED AROUND ALL CONTROLS THAT MUST ALWAYS REMAIN ON TO EACH EMERGENCY BATTERY PACK OR EXIT SIGN, WHERE NOT NOTED AS "NL." FIXTURE'S NORMAL OPERATION SHALL BE ON CONTROLLED L65 OF CIRCUIT.
3. ALL LIGHT FIXTURES ARE FED FROM PANEL "A" UNLESS OTHERWISE NOTED.



PROVIDE SENSING WINDOW TO MATCH SPACE INSTALLED.

2 LIGHTING ROOM CONTROLLER DIAGRAM

NO SCALE

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WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

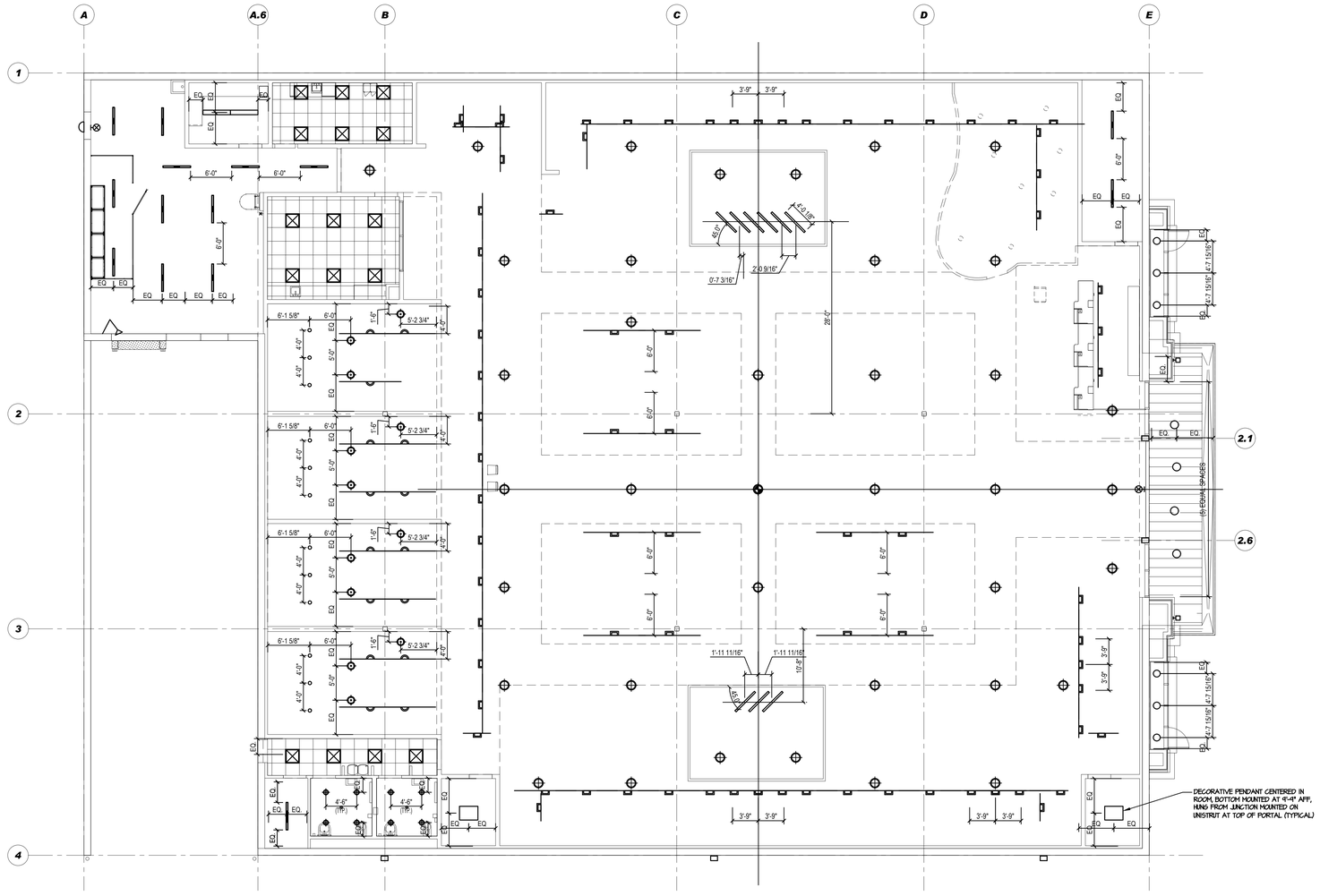
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING: LIGHTING PLAN

SHEET NUMBER: E1.0

Mar 25, 2021 - 16:59:50 DWG Name: C:\Jobs\2020\Fox\66XX\FL Port St Lucie\Drawings\01-Bid Permit\12693_EV12693_E01.0.dwg Updated By: mscanz



1 DIMENSIONED LIGHTING PLAN

SCALE 1/8" = 1'-0"

GENERAL LIGHTING NOTES:

A. SEE DETAIL 1/E3.0A FOR INSTALLATION OF "UL" TYPE FIXTURES. MOUNT @ 17'-0" A.F.F. TO UNDERSIDE OF FIXTURE.

B. MOUNT FIXTURE TYPES "L6", "L6I" & "L6IEM" @ 15'-0" AFF TO UNDER SIDE OF FIXTURE, UNLESS OTHERWISE NOTED.

C. UNDER DIVISION 16 CONTRACTOR SHALL VERIFY THE PROPER MOUNTING HEIGHT OF THE EMERGENCY FIXTURES WITH THE LOCAL FIRE MARSHALL PRIOR TO INSTALLATION.

D. REFER TO DRAWING E2.0 FOR ROOM/AREA NAMES.

E. MAINTAIN 10 FT. CLEARANCE IN FRONT AND 4 FT. CLEARANCE TO EITHER SIDE FOR TYPE "UL" FIXTURES NEAR TV'S, EXCEPT AT CASHWRAP.

F. SEE LIGHT FIXTURE SCHEDULE AND SYMBOL LIST ON DRAWING E4.0.

G. COORDINATE WITH ARCHITECTS REFLECTED CEILING PLAN ON SHEET A3.0 PRIOR TO ROUGH-IN.

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EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

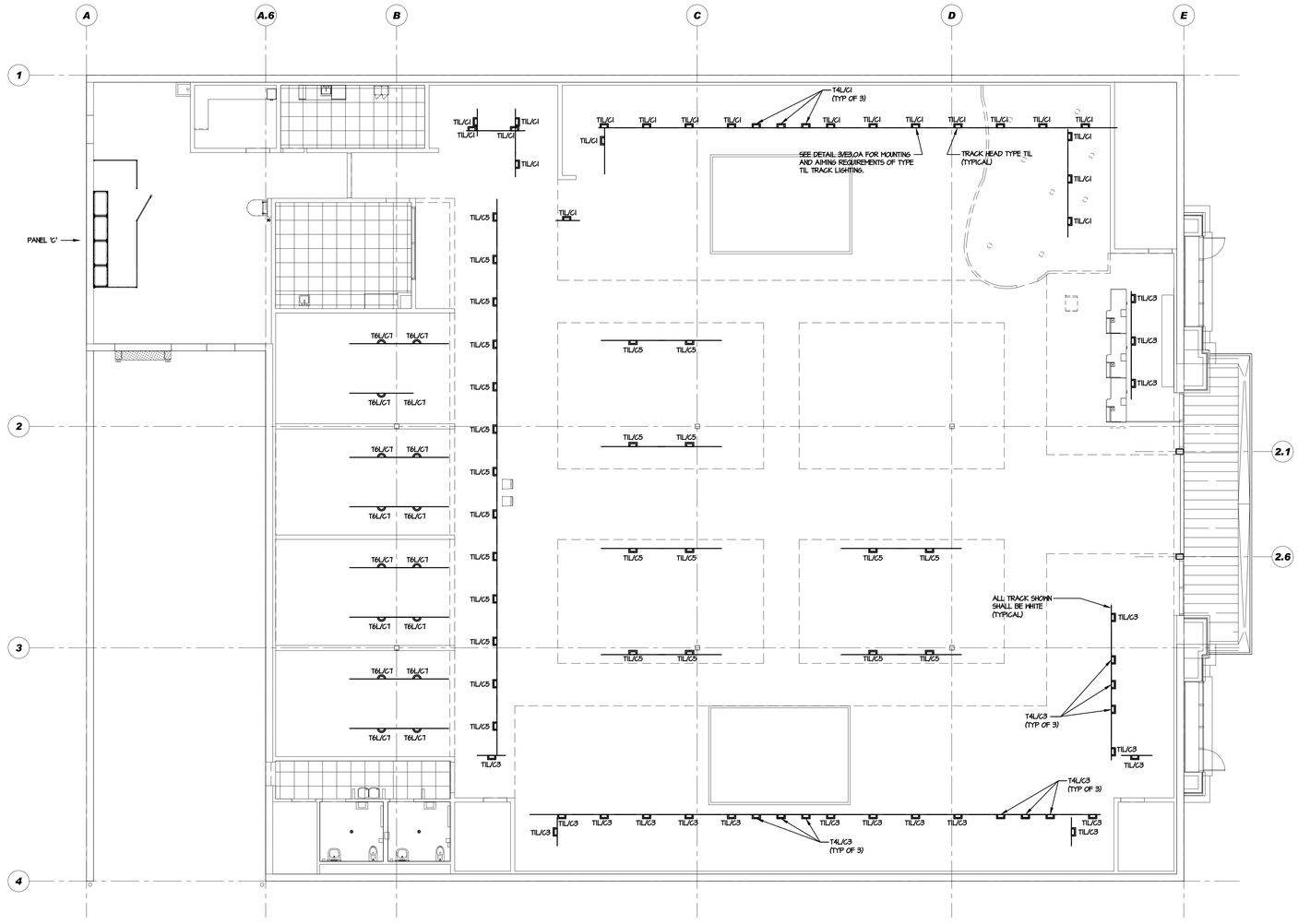
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
DIMENSIONED LIGHTING PLAN

SHEET NUMBER:
E1.0A

Mar 25, 2021 - 16:33:40 DWG Name: C:\Jobs\2020\Fox\GGAX\FL Port St Lucie\Drawings\01-Bid Permit\12633_E1.0A.dwg Updated By: mazoraz



1 TRACK LIGHTING PLAN

SCALE 1/8" = 1'-0"

GENERAL NOTES - DRAWING E1.1:

A. REFER TO BRANCH CIRCUITING GENERAL NOTES ON DRAWING E4.0 FOR BRANCH CIRCUIT SIZING INFORMATION.

LEGEND

$a,$b,$c,$d — SWITCH LEG DESIGNATION; 03 b2	A / 2 b — LIGHT FIXTURE TYPE; CIRCUIT #; SWITCH LEG; EMERGENCY W/ BATTERY BACKUP; EM N — NIGHT LIGHT

NOTES:
1. SWITCH LEG DESIGNATIONS ARE MATCHED BETWEEN CONTROL DEVICES AND LIGHT FIXTURES LOCATED IN THE SAME ROOM UNLESS NOTED OTHERWISE. CONTACT ENGINEER IF CLARIFICATION IS REQUIRED.

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GOLF GALAXY

GATLIN PLAZA
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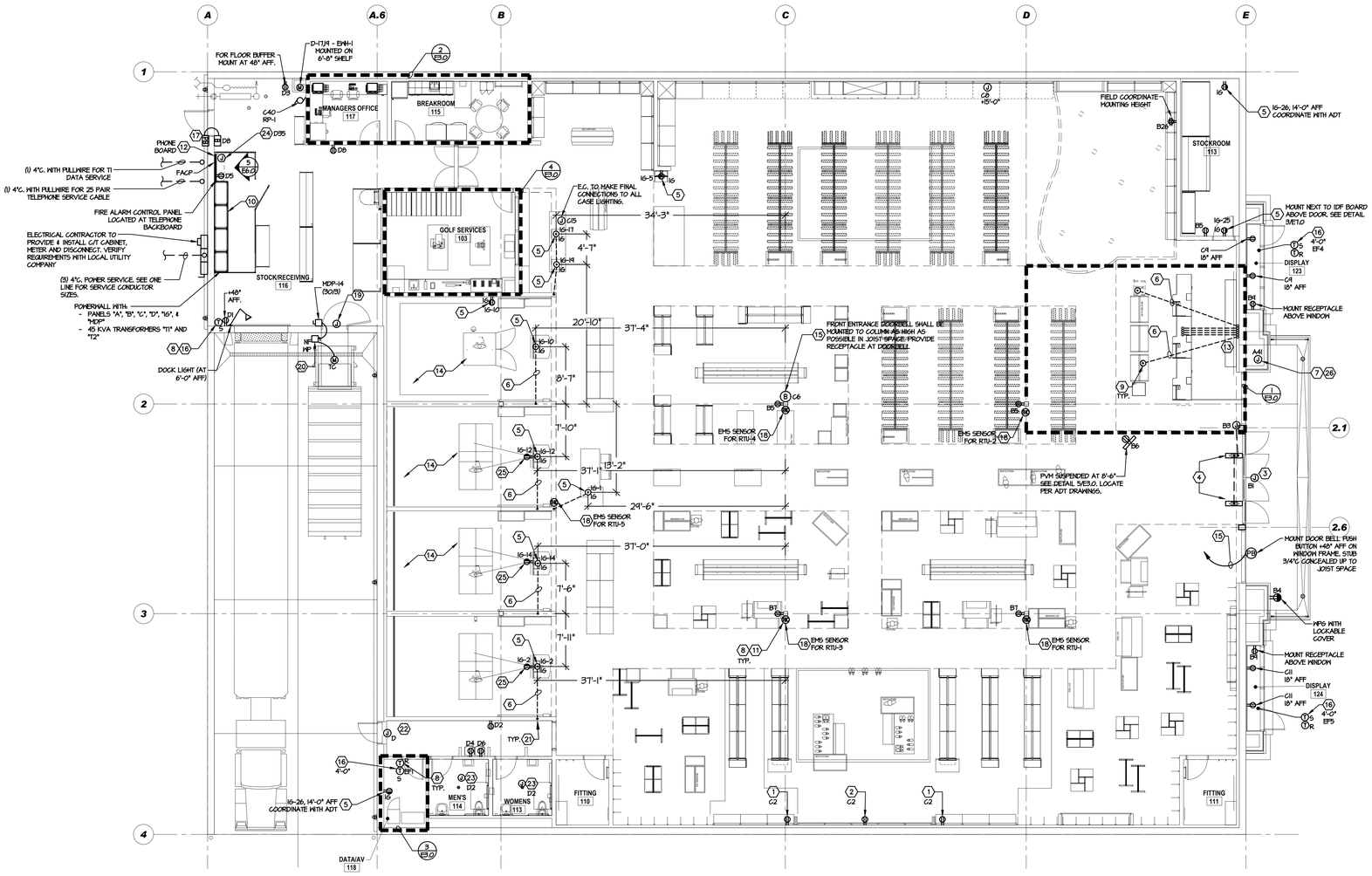
PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
TRACK LIGHTING PLAN

SHEET NUMBER:
E1.1

Mar 26, 2021 - 10:55:18 DWG Name: G:\Jobs\2020\Fox\56\KYRL Port St. Lucie\Drawings\01-Bid Permit\12893_E1.12893_E01.dwg Updated By: mszoraz



1 ELECTRICAL POWER PLAN

SCALE 1/8" = 1'-0"

GENERAL NOTES - DRAWING E2.0:

A. REFER TO BRANCH CIRCUITING GENERAL NOTES ON DRAWING E4.0 FOR BRANCH CIRCUIT SIZING INFORMATION.

B. ALL THERMOSTAT LOCATIONS SHALL BE APPROVED BY DSG DESIGN TEAM.

C. ALL CONDUITS RUN IN EXPOSED CEILING AREAS SHALL BE RUN WITH STRUCTURE TIGHT TO UNDER SIDE OF ROOF DECKING IN ACCORDANCE WITH N.E.C. ARTICLE 300.4(D).

D. ALL WIRING SHALL BE ROUTED OVERHEAD IN JOIST SPACE UNLESS NOTED OTHERWISE ON PLANS TO BE ROUTED BELOW GRADE.

NOTE TO CONTRACTOR:

ELECTRICAL CONTRACTOR SHALL PURCHASE & PROVIDE (12) PLUG-IN SURGE PROTECTORS IN THEIR BID WHICH WILL PROTECT IMPORTANT EQUIPMENT, UNLESS NOTED OTHER WISE, THESE SURGE SUPPRESSERS SHALL BE BY APC, SURGE ARREST MODELS Pro11 (QTY. 6) (FOR POS. AND COMPUTERS) AND Pro7T (QTY. 6) FOR FAX AND ANSWERING MACHINES. VERIFY LOCATION WITH DSG DESIGN TEAM.

CODED NOTES:

1. PROVIDE RECEPTACLE MOUNTED IN LOZIER ADJACENT TO GGXY JOY DISPLAY. RECEPTACLE TO BE MOUNTED HORIZONTALLY IN WALL BELOW 6" AFF TO TOP OF DEVICE. COORDINATE MOUNTING LOCATION WITH VENDORS #1 AND #8 PRIOR TO ROUGH-IN.
2. PROVIDE RECEPTACLE MOUNTED IN GGXY'S JOY DISPLAY CENTERED IN DISPLAY AT 40" AFF TO BOTTOM OF DEVICE. COORDINATE MOUNTING LOCATION WITH VENDORS #1 AND #8 PRIOR TO ROUGH-IN.
3. PROVIDE AN INSULATED/ISOLATED GROUND CONDUCTOR TO THE GROUND BUS OF THE MAIN DISTRIBUTION PANEL FROM EACH DOOR OPERATOR. WIRING FOR DOOR OPERATORS SHALL BE CONCEALED IN THE FRAME AND STOREFRONT. (TYPICAL)
4. ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT & WIRING AND MAKE FINAL CONNECTION TO VENDOR #14 DOOR SECURITY SYSTEM. SEE DETAIL 1/E1.1.
5. ELECTRICAL CONTRACTOR TO PROVIDE A SEPARATE INSULATED/ISOLATED GROUND CONDUCTOR FROM EACH ISOLATED GROUND RECEPTACLE BACK TO PANEL "16".
6. PROVIDE 3/4" CONDUIT BELOW FLOOR TO FLOOR BOX FOR POWER.
7. JUNCTION BOXES TO BE MOUNTED IN MASONRY PIERS AT FRONT ENTRANCE ADJACENT TO GGXY SIGN. CONDUIT UNDER GROUND AND UP INSIDE MASONRY PIER. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FINAL SIGN TERMINATIONS. COORDINATE EXACT LOCATION WITH SIGN VENDOR PRIOR TO INSTALLATION.
8. ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF ALL THERMOSTATS / EMS SENSORS, SO AS TO NOT BE DIRECTLY "BLOWN" ON, ETC. MOUNT ON "BACK-SIDE" OF COLUMN, ETC. AS REQUIRED. SEE SYMBOL LEGEND SHT. E4.0 FOR MOUNTING AND WIRING REQUIREMENTS BY ELECTRICAL CONTRACTOR.
9. ELECTRICAL CONTRACTOR TO CONFIRM LOCATIONS OF ALL IN SLAB ELECTRICAL/DATA WITH DICK'S SPORTING GOODS' PROJECT MANAGER 1 WEEK PRIOR TO ROUGH-IN.
10. VERIFY EXACT LOCATION OF PANEL "MDP" WITH NEW SERVICE. SEE ONE LINE ON DRAWING E6.0.
11. REMOTE LIGHT/TEST STATION TO BE MOUNTED ADJACENT TO TEMPERATURE SENSOR. REFER TO DRAWING E2.0 FOR TEMP SENSOR LOCATIONS. TYP. ALL DUCT SMOKE DETECTORS.
12. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY TELEPHONE COMPANY UTILITY DEMARK LOCATION PRIOR TO BID. EXTEND 4" CONDUIT WITH PULLWIRE FOR NEW INCOMING PHONE SERVICE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE LOCAL TELEPHONE COMPANY FOR COMPLETE INSTALLATION OF 25 PAIR TELEPHONE CABLE TO GOLF GALAXY TELEPHONE BACKBOARD.
13. CONDUITS BELOW FLOOR FOR WIRING FOR NORMAL POWER, 16 POWER, TELEPHONE/DATA AND TV/SECURITY/AUDIO TO CHECKOUTS AND GENERAL ACCESSORIES COUNTER. STUB UP CONDUITS UNDER COUNTER AND COORDINATE LOCATION WITH MILLWORK VENDOR. SEE DETAIL 1/E3.0.
14. ALL ELECTRICAL DEVICES TO BE BLACK WITH BLACK COVER PLATES. 16 RECEPTACLES ARE PERMITTED TO BE ORANGE WITH BLACK COVER PLATES.
15. WIRE PUSHBUTTON TO OPERATE TWO DOORBELLS AT THE SAME TIME. ONE AT SALES AREA COLUMN AND ONE ABOVE OFFICE AREA CORRIDOR CEILING. WIRE PER MFR. WIRING DIAGRAMS.
16. TEMPERATURE SENSOR FURNISHED BY MECHANICAL CONTRACTOR FOR INSTALLATION AND WIRING BY VENDOR #16. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX MOUNTED AT 8'-0" AFF (UNLESS NOTED OTHERWISE) WITH CONDUIT AND PULLSTRING STUBBED INTO JOIST SPACE. COORDINATE INSTALLATION WITH VENDOR #16 AND MECHANICAL CONTRACTOR.
17. ELECTRICAL CONTRACTOR TO COORDINATE INSTALLATION OF WIRED PUSHBUTTON AND DOORBELL WITH WIRELESS DOORBELL SYSTEM PROVIDED AND INSTALLED BY INDYME - CONTACT KATRINA THORSTEN AT (858) 707-6531.
18. COMBINATION TEMPERATURE / RELATIVE HUMIDITY / CARBON DIOXIDE SENSOR FURNISHED BY MECHANICAL CONTRACTOR FOR INSTALLATION AND WIRING BY VENDOR #16. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX MOUNTED AT 9'-0" AFF (UNLESS NOTED OTHERWISE) WITH CONDUIT AND PULLSTRING STUBBED INTO JOIST SPACE. COORDINATE INSTALLATION WITH VENDOR #16 AND MECHANICAL CONTRACTOR.
19. JUNCTION BOX FOR COMPACTOR DOOR RELEASE SIGNAL FROM FIRE ALARM SYSTEM. COORDINATE WITH MANUFACTURER'S SPECIFICATIONS.
20. PROVIDE 30/3 EXTERIOR NF, DISCONNECT & INTERIOR FUSED (30AF) SWITCH FOR TRASH COMPACTOR WIRED IN SERIES. WIRE THROUGH CONTROLLER. COORDINATE WITH MANUFACTURER'S SPECIFICATIONS.
21. ROUTE CONDUIT(S) DOWN INDICATED WALL OR COLUMN THEN ROUTE BELOW GRADE TO ASSOCIATED FLOOR BOX OR CONDUIT STUB-UP LOCATION.
22. JUNCTION BOX AND LOW VOLTAGE WIRING TO POWER SUPPLY AT FACP. MAKE CONNECTION TO DELAYED EGRESS DOOR ALARM PANIC HARDWARE PER MFR. WIRING DIAGRAMS. SEE DETAIL 8/E5.0A.
23. 2 #12 & 1 #12 GND - 3/4"C TO 120/24V TRANSFORMER FOR INFRARED CONTROLLED, AUTOMATIC SINK FAUCET. TRANSFORMER SHALL BE MOUNTED ABOVE LAY-IN CEILING IN CORRIDOR. TRANSFORMER AND FAUCET PROVIDED BY PLUMBING CONTRACTOR. FINAL WIRING TO TRANSFORMER & FAUCETS BY THIS ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
24. JUNCTION BOX FOR CONNECTION TO DELAYED EGRESS PANIC HARDWARE BOXED POWER SUPPLY LOCATED NEAR FACP. PROVIDE 120V CIRCUIT AND CONNECTION TO FIRE ALARM SYSTEM. SEE DETAIL 8/E5.0A.
25. SEE DETAIL 4/E3.0A FOR PENDANT MOUNTED PROJECTOR. POWER AND A/V CABLING TO BE FED IN CONDUIT DOWN TO PROJECTOR LOCATION AS SHOWN IN DETAIL.
26. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SIGN LOCATIONS AND QUANTITIES WITH ARCHITECTURAL ELEVATIONS AND COORDINATE/VERIFY ELECTRICAL REQUIREMENTS WITH VENDOR #8. JUNCTION BOX SHALL BE ACCESSIBLE FROM THE INTERIOR OF THE BUILDING AND BE INSTALLED ABOVE ALL PAINT BREAKS. COORDINATE ROUGH-IN LOCATION WITH G.C. AND INTERIOR ARCHITECTURAL ELEVATION.

FIRE ALARM NOTES:

A. REFER TO SPECIFICATION SECTION 16721 FOR ALL FIRE ALARM SYSTEM REQUIREMENTS AND RESPONSIBILITIES. THE ELECTRICAL CONTRACTOR SHALL DESIGN, FURNISH AND INSTALL A COMPLETE 24V DC, ELECTRONICALLY SUPERVISED ANALOG ADDRESSABLE FIRE ALARM SYSTEM AS SPECIFIED IN THIS SPECIFICATION SYSTEM AND PROVIDE ALL SHOP DRAWINGS AND OBTAIN ALL APPROVALS REQUIRED FROM THE AHJ.

B. DUCT SMOKE DETECTORS SHALL BE PURCHASED AS PART OF THE FIRE ALARM SYSTEM, FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR, AND WIRED TO THE RTU BY THE MECHANICAL CONTRACTOR. E.C. SHALL WIRE THE DUCT DETECTORS TO THE FIRE ALARM CONTROL PANEL.

C. ALL DUCT SMOKE DETECTORS SHALL BE PROVIDED WITH REMOTE INDICATOR ALARM AND KEY TEST SWITCH STATIONS. ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE REMOTE INDICATOR ALARM AND KEY TEST SWITCH STATIONS ADJACENT TO TEMPERATURE SENSORS. COORDINATE FINAL LOCATION WITH THE AUTHORITY HAVING JURISDICTION.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4"C (WITH PULL WIRE) FROM EACH FIRE ALARM DEVICE TO ABOVE ACCESSIBLE CEILING. IF DEVICE IS LOCATED IN AN AREA WITHOUT CEILING, THIS ELECTRICAL CONTRACTOR SHALL STUB UP 3/4"C TO STRUCTURAL JOIST. ALL FIRE ALARM WIRING SHALL BE PROVIDED AND INSTALLED BY FIRE ALARM INSTALLER.

E. ELECTRONIC DELAYED EGRESS PANIC DEVICE TO BE WIRED TO FIRE ALARM SYSTEM. THIS WILL INCLUDE A 15 SECOND DELAY FOR AUDIBLE ALARM. COORDINATE ALL REQUIREMENTS WITH SUPPLIER/INSTALLER. SEE DETAIL SHEET E3.0A.

F. ELECTRICAL CONTRACTOR SHALL PROVIDE FACILITIES FOR THE FIRE ALARM CONTROL PANEL AT THE TELEPHONE BACKBOARD IN THE ELECTRICAL ROOM AS SHOWN ON DETAIL 5/E6.0.

G. ELECTRICAL CONTRACTOR SHALL COORDINATE QUANTITY AND LOCATIONS OF REQUIRED KNOX BOXES WITH THE LOCAL AUTHORITY HAVING JURISDICTION. KNOX BOXES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS REQUIRED

H. WHERE PERMISSIBLE BY THE AUTHORITY HAVING JURISDICTION, THE ELECTRICAL CONTRACTOR SHALL CONTACT VENDOR #14 TO PROVIDE AN IP COMMUNICATOR SYSTEM (NS691-46 OR EQUIVALENT) TO BE INSTALLED ON THE SPECIAL SYSTEMS BACKBOARD. THE COMMUNICATOR SHALL BE INSTALLED WITH THE FIRE ALARM SYSTEM BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL OBTAIN ALL APPROVALS FROM THE AHJ PRIOR TO INSTALLATION.

I. ELECTRICAL CONTRACTOR SHALL COORDINATE THE USE OF SMOKE VENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE ALL CONNECTIONS BETWEEN THE SMOKE VENTS AND THE FIRE ALARM SYSTEM AS REQUIRED. CONNECTIONS SHALL BE INSTALLED PER NFPA REQUIREMENTS.

J. ELECTRICAL CONTRACTOR SHALL CONTACT AND COORDINATE FIRE ALARM DESIGN WITH GGXY VENDOR #2 AS SOON AS POSSIBLE UPON BEING AWARDED THE ELECTRICAL CONSTRUCTION CONTRACT. FIRE ALARM DESIGN DRAWINGS ARE TO BE SUBMITTED TO GGXY VENDOR #2 FOR APPROVAL PRIOR TO SUBMISSION TO THE CITY FOR PERMIT AND PRIOR TO SUBMISSION OF FIRE ALARM SHOP DRAWINGS TO AOR.

K. THE GGXY FIRE ALARM SYSTEM WILL BE A STAND-ALONE SYSTEM THAT WILL SEND COURTESY SIGNALS (ALARM, SUPERVISORY AND TROUBLE) SIGNALS TO THE LANDLORD'S FIRE ALARM CONTROL PANEL AND MASTER BOX. PRIOR TO BID, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND LANDLORD REGARDING THE COURTESY SIGNAL WIRING REQUIREMENTS / FUNCTIONALITY.

L. LANDLORD'S FIRE ALARM CONTRACTOR SHALL BE HIRED BY ELECTRICAL CONTRACTOR FOR ANY NECESSARY MODIFICATIONS TO OR PROGRAMMING OF THE LANDLORD'S FIRE ALARM CONTROL PANEL.

NOTE:

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ELECTRICAL CONDUIT ROUGH-INS FOR ALL FIRE ALARM DEVICES PER NOTE "D" UNDER FIRE ALARM NOTES.

McHenry & Associates Incorporated

MC&A

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Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
ELECTRICAL POWER PLAN

SHEET NUMBER:
E2.0

Mar 26, 2021 - 10:55:01 DWG Name: G:\Jobs\2020\Fox\66XY\FL Port St Lucie\Drawings\01-Bid Permit\12693_E\12693_E02.0.dwg Updated By: matoraz

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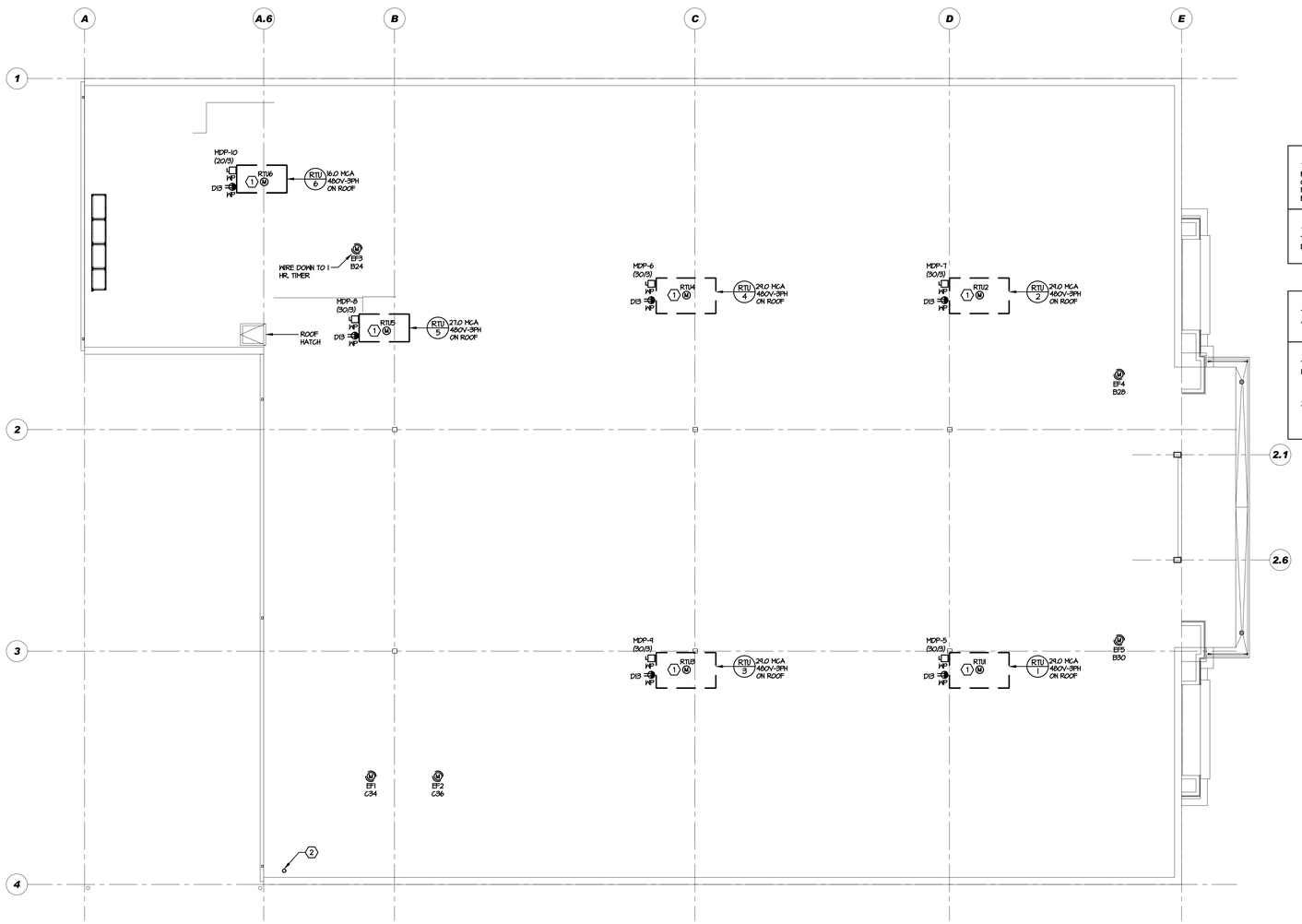

1 ELECTRICAL POWER ROOF PLAN
SCALE 1/8" = 1'-0"

NOTE:

REFER TO ENERGY MANAGEMENT DRAWINGS FOR ADDITIONAL ELECTRICAL CONTRACTOR WORK REQUIRED FOR THE INSTALLATION OF THE ENERGY MANAGEMENT SYSTEM. ELECTRICAL CONTRACTOR RESPONSIBLE FOR WIRING BUILDING ENERGY MANAGEMENT (EM) SYSTEM.

NOTE:

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE DUCT SMOKE DETECTORS PER NOTE 'B' UNDER FIRE ALARM NOTES ON DRAWING E2.0.

GENERAL NOTES - DRAWING E2.1:

A. REFER TO BRANCH CIRCUITING GENERAL NOTES ON DRAWING E4.0 FOR BRANCH CIRCUIT SIZING INFORMATION.

CODED NOTES: ⬡

1. ALL RTU'S HAVE A FIELD WIRED, FACTORY INSTALLED SERVICE NON-FUSED DISCONNECT SWITCH. ELECTRICAL CONTRACTOR SHALL WIRE FACTORY INSTALLED GFCI SERVICE RECEPTACLES FOR ALL RTUS.
2. ELECTRICAL CONTRACTOR TO INSTALL 1-1/2" CONDUIT THROUGH ROOF INCLUDING WEATHERHEAD FOR SATELLITE DISH. ELECTRICAL CONTRACTOR TO TERMINATE CONDUIT AT 6'-0" AFF. AS CLOSE TO "MAIN EQUIPMENT RACK" AS POSSIBLE.

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
ELECTRICAL POWER ROOF PLAN

SHEET NUMBER:
E2.1

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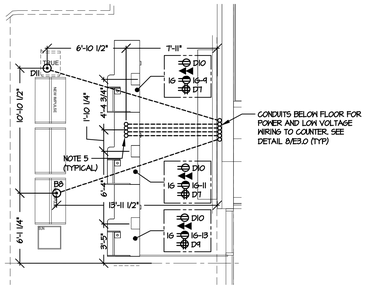
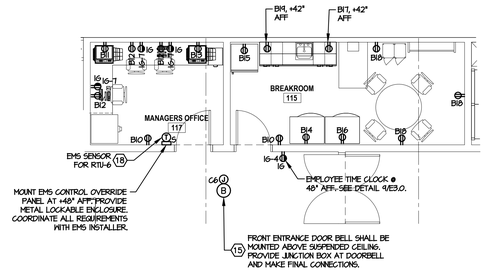
CHECKOUT NOTES:

1. NOT USED.
2. FROM EACH ISOLATED GROUND RECEPTACLE, PROVIDE A SEPARATE INSULATED, ISOLATED GROUND CONDUCTOR TO THE ISOLATED GROUND BUS IN PANEL "16".
3. ALL WIRES PULLED BY ELECTRICAL CONTRACTOR. REFER TO SPECIFICATION.
4. ELECTRICAL CONTRACTOR TO ROUTE CONDUITS DOWN WALL/COLUMN AND INTO BASE OF FIXTURE FOR POWER AND DATA AT CASHWRAP COUNTER. COORDINATE LOCATIONS WITH FIXTURE VENDOR.
5. CONDUITS SHALL BE STUBBED UP UNDERNEATH CASE WORK AND TERMINATED WITHIN THE KICK SPACE (NOT TO EXCEED APPROXIMATELY 3-1/2" AFF). A LOW PROFILE GANG BOX WITHIN THE KICK SPACE IS RECOMMENDED FOR THE TERMINATION OF THE CONDUITS.

NOTES:
1. SEE DRAWING E2.0 FOR CODED NOTES.
2. SEE TO BRANCH CIRCUITING GENERAL NOTES ON DRAWING E4.0 FOR BRANCH CIRCUIT SIZING INFORMATION.



1 ENLARGED CHECKOUT PLAN
SCALE: 3/16" = 1'-0"



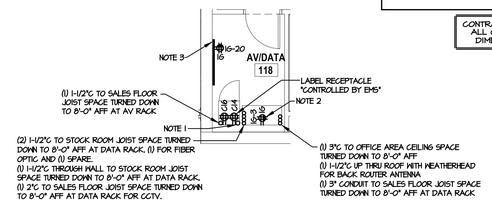
2 ENLARGED OFFICE AREA PLAN
SCALE: 3/16" = 1'-0"

OFFICE NOTES:

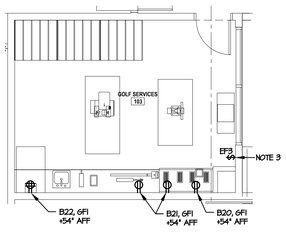
1. REFER TO BRANCH CIRCUITING GENERAL NOTES ON DRAWING E4.0 FOR BRANCH CIRCUIT SIZING INFORMATION.

A/V ROOM NOTES:

1. ELECTRICAL CONTRACTOR TO INSTALL 1-1/2" CONDUIT THROUGH ROOF INCLUDING WEATHERHEAD FOR SATELLITE DISH. TERMINATE CONDUIT AT 8'-0" AFF. AS CLOSE TO "MAIN EQUIPMENT RACK" AS POSSIBLE.
2. DATA MDF LOCATED IN DATA ROOM. COORDINATE EXACT LOCATION WITH VENDOR #13.
3. UNDER DIVISION 16 CONTRACTOR SHALL PROVIDE 4'x8'x3/4" PLYWOOD BACKBOARD, PAINTED BOTH SIDES GRAY ENAMEL. COORDINATE EXACT LOCATION WITH VENDOR #13.
4. REFER TO BRANCH CIRCUITING GENERAL NOTES ON DRAWING E4.0 FOR BRANCH CIRCUIT SIZING INFORMATION.

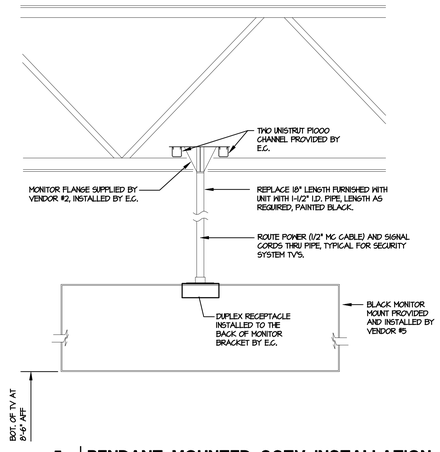


3 ENLARGED A/V ROOM PLAN
SCALE: 3/16" = 1'-0"



NOTES:
1. SEE DRAWING E2.0 FOR CODED NOTES.
2. SEE BRANCH CIRCUITING GENERAL NOTES ON DRAWING E4.0 FOR BRANCH CIRCUIT SIZING INFORMATION.
3. 0-60 MINUTE TIMER SWITCH TO BE FURNISHED BY M.C. FOR CONTROL OF EF-3. WIRE EF-3 THROUGH SWITCH AND INSTALL SWITCH IN LOCATION TO BE FIELD COORDINATED WITH BENCH.

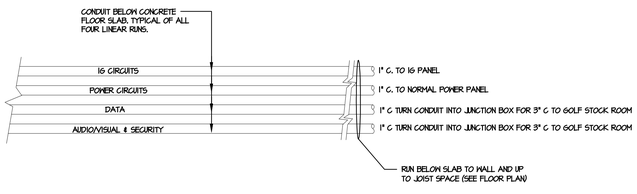
4 GOLF SERVICES
SCALE: 3/16" = 1'-0"



5 PENDANT MOUNTED CCTV INSTALLATION
SCALE: N.T.S.

6 NOT USED
SCALE: N.T.S.

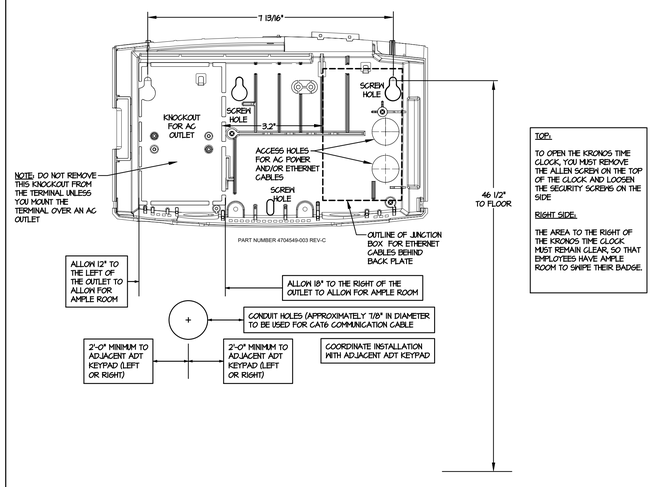
7 NOT USED
SCALE: N.T.S.



UNDER FLOOR CONDUIT WIRING NOTES:

1. CONDUITS MAY CHANGE IN ANY ORDER BUT MUST CONTAIN ONLY THE WIRING SYSTEM SHOWN.
2. IDENTIFY 16 # NORMAL WIRING WITH DIFFERENT COLOR WIRES.
3. CONDUIT STUB-UPS SHALL BE UNDER COUNTER SPACE AND NOT IN STANDING SPACE (COORDINATE WITH GENERAL CONTRACTOR).
4. PROVIDE (2) TWO PULLSTRINGS IN EACH OF THE CONDUITS FOR LOW VOLTAGE CABLING. LABEL EACH END OF THE PULLSTRINGS AS DATA BY VENDOR 13. LABEL EACH END OF THE PULL STRINGS IN THE AUDIO/VISUAL & SECURITY CONDUIT AS VENDOR 2 AND THE OTHER AS A/V VENDOR.
5. EXTEND CONDUITS TO ROOF STRUCTURE FOR CONDUITS CONTAINING THE LOW VOLTAGE CABLING. PROVIDE LONG RADIUS 90'S AND BUSH ENDS FOR CABLE PROTECTION. VERIFY EXACT INSTALLATION DETAILS WITH DSG DESIGN TEAM.

8 UNDER FLOOR CONDUIT DETAIL
SCALE: N.T.S.



TOP:

TO OPEN THE KRONOS TIME CLOCK, YOU MUST REMOVE THE ALLEN SCREW ON THE TOP OF THE CLOCK AND LOOSEN THE SECURITY SCREWS ON THE SIDE

RIGHT SIDE:

THE AREA TO THE RIGHT OF THE KRONOS TIME CLOCK MUST REMAIN CLEAR, SO THAT EMPLOYEES HAVE AMPLE ROOM TO SWIPE THEIR BADGE.

9 TIMECLOCK BACKPLATE DIMENSIONS
SCALE: N.T.S.

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WIND DATA

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EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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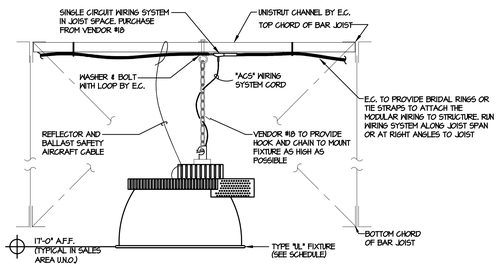
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
ELECTRICAL DETAILS

SHEET NUMBER:
E3.0

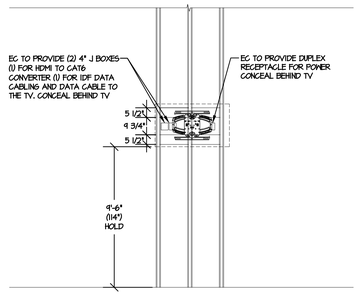
Mar 26, 2021 - 10:54:52 DWG Name: C:\Jobs\2021\Fox\66KY\FL Port St Lucie\Drawings\01\Bid Permit\12693_E1\12693_E03.0.dwg Updated By: mazaroz



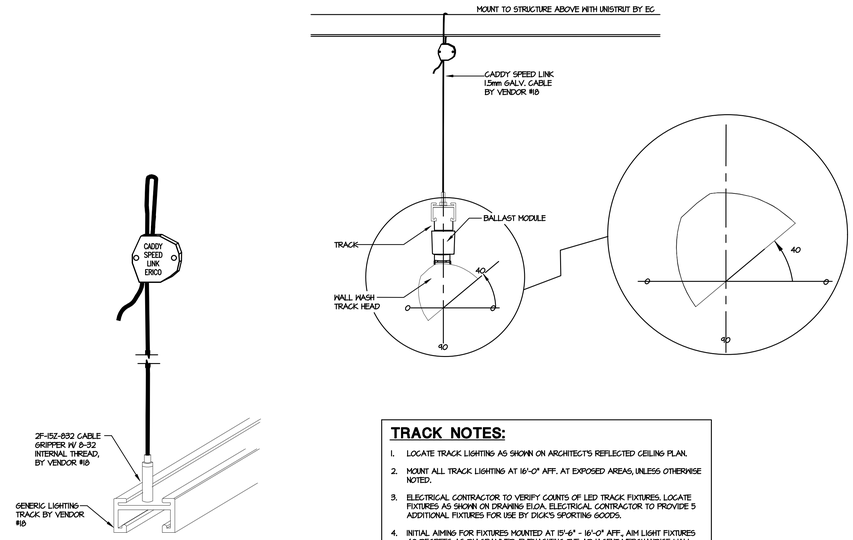
NOTES:

1. BOLT HOOK TO UNISTRUT, DOUBLE NUT ALL THREADED CONNECTIONS. PROVIDE HOOK AND LOOP TO SUPPORT FIXTURE BY MEANS OF STEEL CHAIN. SUPPORT FIXTURE FROM UNISTRUT, COORDINATE METHOD OF FASTENING UNISTRUT TO TOP CHORD OF JOIST WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION. DO NOT DRILL OR WELD TO JOIST. ASSEMBLY SHALL SUPPORT FOUR TIMES THE FIXTURE WEIGHT.
2. WHERE FIXTURES OCCUR DIRECTLY BELOW BAR JOIST I.E. MAIN CENTER AISLE, PROVIDE JOIST CLAMP WITH HOOK AND CHAIN FOR FIXTURE MOUNTING TO JOIST.
3. ALL UNISTRUT SHALL BE PAINTED TO MATCH CEILING. REFER TO ARCHITECTURAL DRAWINGS.
4. E.C. SHALL INSTALL ALL LIGHTING IN ACCORDANCE WITH N.E.C.
5. FIXTURE TYPE UL/UL-NL SHALL COME COMPLETE WITH "ACS" MODULAR WIRING AND HOOK. E.C. SHALL WRAP AND TIE EXCESS CORD.
6. LIGHT FIXTURE TYPES "UL & UL/NL" ARE TO BE WIRED WITH "ACS" MODULAR WIRING SINGLE CIRCUIT WIRING SYSTEM. PURCHASE ALL RELATED COMPONENTS FROM VENDOR #18. CONTACT VENDOR FOR COMPLETE PACKAGE LIST PRIOR TO BID.

TYPE UL / UL-NL LUMINAIRE
1 INSTALLATION DETAIL
SCALE N.T.S.



2 GOLF SERVICE TV ELEVATION DETAIL
SCALE: N.,T.S.



TRACK NOTES:

1. LOCATE TRACK LIGHTING AS SHOWN ON ARCHITECT'S REFLECTED CEILING PLAN.
2. MOUNT ALL TRACK LIGHTING AT 16'-0" AFF. AT EXPOSED AREAS, UNLESS OTHERWISE NOTED.
3. ELECTRICAL CONTRACTOR TO VERIFY COUNTS OF LED TRACK FIXTURES. LOCATE FIXTURES AS SHOWN ON DRAWING E1.0A. ELECTRICAL CONTRACTOR TO PROVIDE 5 ADDITIONAL FIXTURES FOR USE BY DICK'S SPORTING GOODS.
4. INITIAL AIMING FOR FIXTURES MOUNTED AT 15'-6" - 16'-0" AFF., AIM LIGHT FIXTURES 40 DEGREES AS DIAGRAMMED, EMPHASIZING THE ADJACENT MERCHANDISE WALL DISPLAY AND BRANDING GRAPHICS. PERFORM FINAL AIMING ADJUSTMENTS AS DIRECTED BY DICK'S SPORTING GOODS AUTHORIZED REPRESENTATIVE.
5. TRACK SUPPORTING CABLES ARE TO BE 4'-0" ON CENTER WITH A SUPPORT LOCATED AT EACH TRACK END (OR PER LOCAL CODE). FACTORY PREDRILLED HOLES ARE NOT DESIGNATED SUPPORT HANGING POINTS AND WILL NOT PROVIDE THE PROPER SPACING.

3 TRACK LIGHTING DETAIL (OPEN CEILING)
SCALE N.T.S.

McHenry & Associates Incorporated
MC&A
Consulting Engineers est. 1960
25001 Emery Road, Suite #200
Warrensville Heights, Ohio 44128
Phone: 216-292-4696
Fax: 216-292-5874
Email: mail@mchenryassociates.com
Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

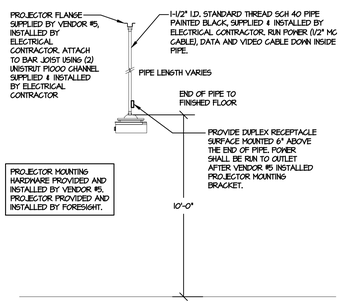
EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

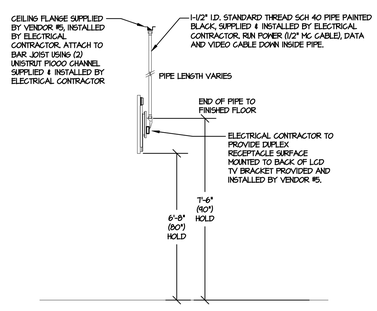
All design materials prepared by Fox Design Group, LLC shall remain the property of Fox Design Group, LLC, which shall also retain all common law, statutory and other rights, including the copyright thereto

FOX DESIGN GROUP
FL LICENSE: AA26003844
FOX DESIGN GROUP, LLC
5170 DUNDEE ROAD, 2ND FLOOR
SOLON, OH 44139
www.foxdesigngroup.net

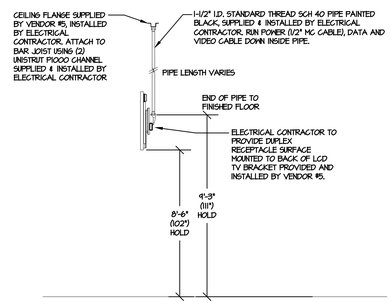
GOLF GALAXY



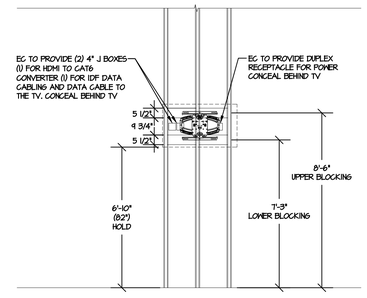
4 GOLF SIMULATOR ELEVATION DETAIL
SCALE: N.T.S.



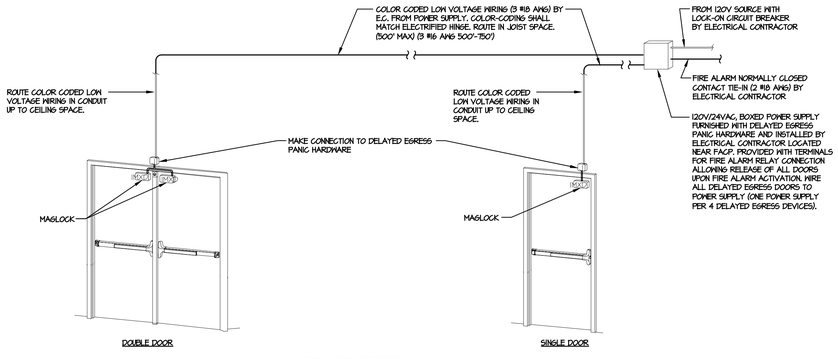
5 PGA INSTRUCTION TV ELEVATION DETAIL
SCALE: N.T.S.



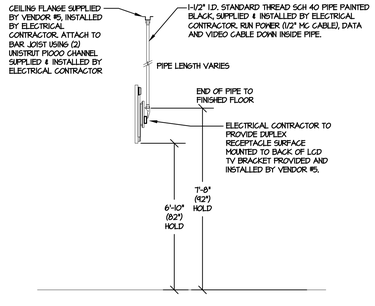
6 CASHWRAP ELEVATION DETAIL
SCALE: N.T.S.



7 GOLF FITTING CENTER LCD TV ELEVATION DETAIL
SCALE: N.T.S.



8 DELAYED EGRESS WIRING DIAGRAM
SCALE: N.,T.S.



9 GOLF FITTING CENTER TV ELEVATION DETAIL
SCALE: N.T.S.

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
ELECTRICAL DETAILS

SHEET NUMBER:
E3.0A

Mar 25, 2021 - 20:34:56 DWG Name: G:\Jobs\2020\Fox\66KY\FL Port St Lucie\Drawings\01-Bid Permit\12693_E1\12693_E03.0A.dwg Updated By: rezaoraz

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

C------INDICATES CONTROL DEVICE
M------INDICATES ELECTRIC EQUIPMENT
F-1---INDICATES EQUIPMENT DESIGNATION FROM SCHEDULE
AU------INDICATES CONTROL DEVICE LOCATED AT UNIT
X------INDICATES FIRE ALARM FAN SHUTDOWN IS REQUIRED
101------INDICATES ROOM LOCATION FOR CONTROL DEVICE

EQUIPMENT							ITEMS FURNISHED & INSTALLED BY ELECTRIC DIVISION										ITEMS FURNISHED & INSTALLED & WIRED BY OTHER DIVISIONS				
EQUIP. DESIGN.	NAME	ROOM LOCATION	HP	KW	VOLTS	PHASE	PANEL OR CONTROL CENTER	CIRCUIT BREAKER	POWER WIRING FROM PANEL TO CONTROL UNIT	POWER WIRING FROM CONTROL UNIT TO EQUIP	GND WIRE	KEY. NOTES	FUSED DISC. SWITCH	NON-FUSED DISC. SWITCH	MANUAL MOTOR STARTER	FIRE ALARM FAN SHUT-DOWN	MANUAL MOTOR STARTER	COMB. MAGNET. STARTER	2-SPEED COMB. MAGNET. STARTER	NON-FUSED DISC. SWITCH	PKG. CTRL. UNIT
RTU 1	ROOF TOP UNIT #1	ROOF	2.0	18.5	460	3	MDP	30A-3P	3#10, 3/4"C	3#10, 3/4"C	#10	1,3,4,5				X				AU	
RTU 2	ROOF TOP UNIT #2	ROOF	2.0	18.5	460	3	MDP	30A-3P	3#10, 3/4"C	3#10, 3/4"C	#10	1,3,4,5				X				AU	
RTU 3	ROOF TOP UNIT #3	ROOF	2.0	18.5	460	3	MDP	30A-3P	3#10, 3/4"C	3#10, 3/4"C	#10	1,3,4,5				X				AU	
RTU 4	ROOF TOP UNIT #4	ROOF	2.0	18.5	460	3	MDP	30A-3P	3#10, 3/4"C	3#10, 3/4"C	#10	1,3,4,5				X				AU	
RTU 5	ROOF TOP UNIT #5	ROOF	1.0	17.4	460	3	MDP	30A-3P	3#10, 3/4"C	3#10, 3/4"C	#10	1,3,4,5				X				AU	
RTU 6	ROOF TOP UNIT #6	ROOF	1.0	9.6	460	3	MDP	20A-3P	3#12, 3/4"C	3#12, 3/4"C	#12	1,3,4,5				X				AU	
EF1	EXHAUST FAN #1	ROOF	1/4	-	115	1	C	20A-1P	2#12, 3/4"C	2#12, 3/4"C	#12	2					AU				
EF2	EXHAUST FAN #2	ROOF	1/6	-	115	1	C	20A-1P	2#12, 3/4"C	2#12, 3/4"C	#12	1,9					AU				
EF3	EXHAUST FAN #3	ROOF	1/4	-	115	1	B	20A-1P	2#12, 3/4"C	2#12, 3/4"C	#12	6					AU				
EF4	EXHAUST FAN #4	ROOF	1/4	-	115	1	B	20A-1P	2#12, 3/4"C	2#12, 3/4"C	#12	2					AU				
EF5	EXHAUST FAN #5	ROOF	1/4	-	115	1	B	20A-1P	2#12, 3/4"C	2#12, 3/4"C	#12	2					AU				
EWH-1	WATER HEATER	STOCKROOM	-	2.0	208	1	D	20A-2P	2#12, 3/4"C	2#12, 3/4"C	#12			AU							
RP-1	RECIRCULATING PUMP	STOCKROOM	FRACT. HP	-	120	1	C	20A-1P	2#12, 3/4"C	2#12, 3/4"C	#12	1,9		AU							
TC	COMPACTOR	LOAD DOCK	1.0	-	460	3	MDP	30A-3P	3#10, 3/4"C	3#10, 3/4"C	#10	7,8	AU	AU							

KEY NOTES:

1. CONTROLLED BY NOVAR EMS.
2. FAN CONTROLLED BY REVERSE THERMOSTAT.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTORS AND TIE TO FA SYSTEM.
4. PROVIDE HACR TYPE CIRCUIT BREAKER IN PANEL. SOPL NON-FUSED DISCONNECT PROVIDED INTEGRAL TO UNIT BY HVAC VENDOR.
5. FIELD WIRE FACTORY INSTALLED GFCI SERVICE RECEPTACLE. PROVIDE 120 VOLT CIRCUITS AS REQUIRED.
6. INSTALL AND WIRE MANUAL ON/TIMER OFF (1 HOUR) FURNISHED BY DIV. 15.
7. BREAKER AND DISCONECT SIZE IS FOR A 10HP 460V 3-PHASE BALER / COMPACTOR. IF DIFFERENT VOLTAGE BALER / COMPACTOR WILL BE USED, RE-SIZE DISCONNECT AND BREAKER PER BALER / COMPACTOR SUPPLIER'S LITERATURE.
8. PROVIDE EXTERIOR NON FUSED AND INTERIOR ISOLATED DISCONNECT SWITCH.
9. E.C. TO WIRE THROUGH NOVAR EMS CONTROLLED SWITCHABLE (SB) BREAKER IN PANEL. BREAKER TO BE CONTROLLED BY EMS SYSTEM.

GENERAL NOTES:

A. EC SHALL MAKE FINAL TERMINATION AT EQUIPMENT.
B. EC SHALL PROVIDE ALL CIRCUITING REQUIRED AND INSTALL THERMOSTATS AND SENSORS FOR COMPLETE CONTROL SYSTEM WHERE REQUIRED, THERMOSTATS AND SENSORS FURNISHED BY NOVAR.
C. PROVIDE FUSE SIZE PER MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED FOR EQUIPMENT REQUIRING FUSED DISCONNECTS.
D. EC SHALL PROVIDE LOCAL DISCONNECTING MEANS FOR ALL EQUIPMENT LISTED ON SCHEDULE OR SHOWN ON PLAN DRAWINGS. TYPICAL ALL DRAWINGS.
E. EC TO MOUNT RTU DUCT SMOKE DETECTOR TEST STATIONS ADJACENT TO EMS/THERMOSTAT LOCATIONS.
F. EC TO FURNISH AND INSTALL ALL CONDUIT, WIRE, CABLES AND MISCELLANEOUS EQUIPMENT AS REQUIRED FOR A COMPLETE AND OPERATIONAL NOVAR ENERGY MANAGEMENT SYSTEM, PER "EM" DRAWINGS.

COMMISSIONING NOTES:

1. GENERAL CONTRACTOR SHALL PROVIDE COMMISSIONING OF LIGHTING CONTROL SYSTEM PER THE 2018 FLORIDA ENERGY CONSERVATION CODE, C408.3. COMMISSIONING SHALL BE COMPLETED BY A CITY APPROVED COMMISSIONING AGENCY. GENERAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE ALL COMMISSIONING REQUIREMENTS WITH COMMISSIONING AGENT.
   A. LIGHTING CONTROLS SHALL BE TESTED FOR FUNCTIONAL PERFORMANCE PER MANUFACTURER'S INSTRUCTIONS AND FOR COMPLIANCE WITH THE DESIGN INTENT OF THE CONSTRUCTION DOCUMENTS AND SECTION C405 OF THE 2018 FLORIDA ENERGY CONSERVATION CODE. GENERAL CONTRACTOR SHALL PROVIDE REPRESENTATIVES WITH EXPERTISE TO PARTICIPATE AND ASSIST THE COMMISSIONING AGENT IN THE TESTING OF LIGHTING CONTROLS. SUBMIT THE LIGHTING COMMISSIONING DOCUMENTATION TO THE REGISTERED DESIGN PROFESSIONAL FOR VERIFICATION OF THE LIGHTING CONTROL SYSTEM TESTING AND INSTALLATION.
   B. WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY, COMMISSIONING AGENT SHALL PROVIDE TO THE BUILDING OWNER THE FINAL COMMISSIONING REPORT THAT CERTIFIES THAT THE INSTALLED LIGHTING CONTROL SYSTEM MEETS THE DOCUMENTED PERFORMANCE CRITERIA OF SECTION C405 OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE.

LIGHTING FIXTURE SCHEDULE

SYMBOL	MARK	DESCRIPTION	CATALOG #	INPUT WATTAGE	REMARKS
	A	2'X2' LED	C-TR-C-FP22-3TL-35K-MH	31W	
	A-EM	2'X2' LED WITH EMERGENCY DRIVER	C-TR-C-FP22-3TL-35K-MH-EB	35W	PROVIDE EMERGENCY BATTERY DRIVER
	A3	2'X2' LED	FBX-2OL-L-40-UNV-LFA	17.8W	E.C. TO MOUNT BOTTOM OF FIXTURE 10'-0" OR TO UNDERSIDE OF JOISTS (WHICHEVER IS LOWER)
	F	4' LED WALL MOUNT	LN4-4-4500-35K-HTA-A460-UNI	34W	MOUNTED AT 8'-0" AFF.
	F1	4' LED WRAP-AROUND	4WSNLED-LD4-40SL-F-UNV-L835-CD1-U	40W	
	F1EM	4' LED WRAP-AROUND WITH EMERGENCY DRIVER	4WSNLED-LD4-40SL-F-UNV-EL7W-L835-CD1-U	40W	PROVIDE EMERGENCY BATTERY DRIVER
	FMEM	4' LED WALL BRACKET WITH INTEGRAL OCCUPANCY SENSOR AND EMERGENCY DRIVER	LN4SW-4-4500-35K-HTA-U55-UNI-EM7-O4	34W	PROVIDE EMERGENCY BATTERY DRIVER. MOUNT BELOW TRELLIS @ 9'-0" AFF TO CENTER OF FIXTURE.
	FR	DECORATIVE PENDANT WITH LED LAMPS	RLM60325-N (10' CORD)	54W (3) 18W LAMPS)	E.C. TO MOUNT BOTTOM OF FIXTURE 8'-2" A.F.F. E.C. TO PAINT MOUNTING UNISTRUT WHITE.
	6B	8' TRACK			
	6A	4' TRACK			
	TR COUP	TRACK COUPLING			
	TR FEED	TRACK LIVE END			
	TR 90	TRACK 90 DEG. CONNECTION			
	TIL	LED WALLWASH HEAD WITH DRIVER	CTL183W3D-P-DS6 (WHITE)	43W	CONTECH WHITE LED HEADS ON WHITE CONTECH TRACK. SURFACE MOUNT TO 6TP. BOARD CEILINGS. SUSPENDED IN OPEN CEILING AREAS. SEE ELECTRICAL DWG'S FOR AMOUNT OF FIXTURE HEADS & TRACK REQUIRED.
	T4L	LED WALLWASH HEAD WITH DRIVER, BARN DOORS	CTL181W3D-P-DS6 / BD18-P	30W	
	T6L	LED WALLWASH HEAD WITH DRIVER	CTL8063W54CD-P-DS6/FA42-P/LF16-L5	20W	
	S5	LED TRACK HEAD, VERTICAL HOUSING	CTL8252V535D-P-DS6	37W	
	GT4	GOLF FOCAL LED TRACK HEAD WITH DRIVER	CTL806VW3D-P-DS6	20W	
	6R	RECESSED WALL WASH-VERTICAL ILLUMINATION LUMINARIES	R6WNC335K12D-P-DS6	28W	
	K	SEMI-RECESSED ADJUSTABLE LED LIGHT FIXTURE	R6WNC659K12D-P-DS6	57W	
	K1	SEMI-RECESSED ADJUSTABLE LED LIGHT FIXTURE	R6WRM440K27D-P-DS6	41W	
	S4	4' LED DECORATIVE LINEAR PENDANT	SPD48-3K	32W	COORDINATE WITH DECOR INSTALLATION
	FTRM	SQUARE LED PENDANT WITH REMOTE DRIVER & MICRO INVERTER TO SERVE AS EMERGENCY LIGHTING	PD85132-BK	57W	MOUNT AT 9'-9" AFF
	C1	LINEAR LED COVE FIXTURE - COORDINATE WITH VENDOR	MC	4.2W / FT	COORDINATE WITH DECOR INSTALLATION
	L6	8' LED STRIP	LS8-80L-35K-10V	88W	WIRE GUARD INCLUDED WITH FIXTURE
	L6EM	8' LED STRIP WITH EMERGENCY DRIVER	LS8-80L-35K-10V-EBI4	42W	PROVIDE EMERGENCY BATTERY DRIVER
	L6I	4' LED STRIP	C48LV52W6100LVDMV40K	52W	
	L6IEM	4' LED STRIP WITH EMERGENCY DRIVER	C48LV52W6100LVDMV40K-EM	52W	PROVIDE EMERGENCY BATTERY DRIVER
	R	EM UNIT WITH NICKEL CAD BATTERY	ELM-LED-803-N	2W	WALL/COLUMN MOUNTED AT HEIGHT INDICATED ON DRAWINGS
	R3	WEATHER RESISTANT WITH BATTERY BACKUP	P6P-HTR	16W	MOUNT 18" ABOVE DOOR.
	R5	EM UNIT - LED	P6M	3W	FITTING ROOMS - MOUNT BELOW TRELLIS @ 9'-0" AFF TO CENTER OF FIXTURE
	RC	EM UNIT WITH NICKEL CAD BATTERY	EVNC121-06L	4W	PENDANT MOUNTED 17'-0" A.F.F. TO BOTTOM OF FIXTURE
	RR	RESTROOM LED DOWNLIGHT	20SMPRRDIM930	20W	
	S2	S6L FACE EXIT WITH EMERGENCY DRIVER	ELX-603-R-W	2W	MOUNTED AT 9'-6" AFF.
	S3	DBL FACE EXIT WITH EMERGENCY DRIVER	ELX-603-R-W	2W	MOUNTED AT 9'-6" AFF.
	T	LED DOWNLIGHT	HHB-LED-3000L	41W	
	UL	HIGH-BAY LED	KBL-B-XX-24L-40K-8-XX-XX W/ACR16	164W	E.C. TO MOUNT BOTTOM OF FIXTURE 17'-0" A.F.F.
	UL/NL	HIGH-BAY LED (NIGHTLIGHT)	KBL-B-XX-24L-40K-8-XX-XX W/ACR16	164W	E.C. TO MOUNT BOTTOM OF FIXTURE 17'-0" A.F.F.
	V	PENDANT LED	CYLB-3-30K-MVD-FC-N-CLR-B20FT-DS6	20W	E.C. TO MOUNT BOTTOM OF FIXTURE 11'-0" A.F.F.
	V2	PENDANT LED	CYLB-5-35K-MVD-FC-N-CLR-B	37W	E.C. TO MOUNT BOTTOM OF FIXTURE 12'-0" A.F.F.
	Y2A	MURAL LED LIGHT WITH ARM BRACKET	CTL1825L25MVD-6RN-DS6	41W	JUNCTION BOX FOR FIXTURE TO BE SECURELY MOUNTED TO RECESSED BLOCKING
	Z1	LED DOWNLIGHT	PRB30D010/PRB34MDMW	29W	
	Z1EM	LED DOWNLIGHT WITH EMERGENCY DRIVER	PRB30D010REM1/PRB34MDMW	29W	
	Z2	EXTERIOR LED WALL MOUNT	SLIM26N	26W	FURNISHED WITH FULL CUT-OFF SHIELD. SEE ARCH. DWG'S FOR LOCATION & MOUNTING HGT
	Z5	DECORATIVE LED WALL MOUNT	SLIM	26W	
	DOCK	DOCK LIGHT WITH LED LAMP	DKL40VA	17W	SEE DWG. E2.0

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR TO COORDINATE SURFACE MOUNTED FIXTURE MOUNTING WITH ALL MECHANICAL DUCTWORK AND PLUMBING PIPING, WHERE INTERFERENCE'S OCCUR, ELECTRICAL CONTRACTOR TO STEM MOUNT FIXTURES BELOW ALL DUCTWORK AND PIPING.
B. ELECTRICAL CONTRACTOR TO REFER TO DRAWING E1.0A AND ARCHITECT'S REFLECTED CEILING PLAN FOR LOCATION OF ALL LIGHT FIXTURES.
C. NO DUCTWORK OR PIPING TO BE RUN ABOVE ELECTRICAL PANELS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR EQUIPMENT LAYOUTS PRIOR TO ROUGH-IN OF ALL SYSTEMS
D. DEVICES IN THE FLOOR ARE NOT TO BE SCALED FROM THESE DRAWINGS. LOCATIONS SHALL BE VERIFIED WITH THE DICKS ON SITE REPRESENTATIVE AND OR DIMENSIONS TAKEN IN THE FIELD.
E. ELECTRICAL CONTRACTOR TO CONFIRM ALL REQUIREMENTS AND LOCATIONS OF ALL EXIT SIGNS, EMERGENCY LIGHTS AND FIRE ALARM DEVICES WITH LOCAL FIRE AUTHORITIES PRIOR TO ROUGH-IN.
F. ELECTRICAL CONTRACTOR TO CONFIRM LIGHT FIXTURE CATALOG NUMBERS WITH ALL LIGHT FIXTURES SPECIFIED ON PLANS FOR FIXTURE TRIMS, VOLTAGES, LAMPS ETC.
G. ELECTRICAL CONTRACTOR TO CONFIRM LOCATIONS OF ALL ELECTRICAL DEVICES WITH FIXTURING LOCATIONS PRIOR TO ROUGH-IN.
H. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT ELECTRICAL CHARACTERISTIC PRIOR TO ROUGH-IN.
I. VENDOR FOR ALL LIGHTING FIXTURES IS VENDOR #18.
J. VERIFY COMPATIBILITY OF BALLAST WITH VENDOR #14 SECURITY SYSTEM.
K. VERIFY VOLTAGE PRIOR TO ORDERING FIXTURES.
L. CONDUIT ROUTING IS SHOWN ON DRAWINGS IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. UNLESS NOTED OTHERWISE, ALL CONDUIT SHALL BE CONCEALED. WHERE SHOWN EXPOSED, CONCEAL IN WALLS AT MAXIMUM HEIGHT POSSIBLE FOR RUNS TO FLUSH DEVICE BOXES.
M. NO ELECTRICAL ROUGH-IN BOXES ARE PERMITTED ON WALL GRAPHICS.
N. CONTRACTORS BIDDING THIS PROJECT SHALL HAVE PRIOR EXPERIENCE WORKING IN THIS JURISDICTION AND MUST LIST ON BID FORM ANY LOCAL REQUIREMENTS THAT ARE NOT SHOWN ON THE DRAWINGS. SUBMISSION OF A BID SHALL BE EVIDENCE THAT THE CONTRACTOR'S BID INCLUDES ALL JURISDICTIONAL REQUIREMENTS.
O. ALL BRACING MUST BE ATTACHED TO JOIST / BEAM. DO NOT ATTACH TO ROOF DECK.

BRANCH CIRCUITING GENERAL NOTES:

A. ON 20 AMP, 1 POLE CIRCUITS, HOMERUNS SHALL BE 2 #12 AWG + #12 GND IN 3/4" CONDUIT MINIMUM (INCLUDE ADDITIONAL ISOLATED GROUND CONDUCTOR SIZED TO MATCH GROUND CONDUCTOR IS IDENTIFIED AS ISOLATED GROUND CIRCUIT). INCREASE WIRE SIZE AS REQUIRED PER VOLTAGE DROP TABLE ON THIS DRAWING.
   a. VOLTAGE DROPS ARE BASED ON FEEDER CONDUCTORS SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.
B. ALL CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS CONTINUOUS FROM PANEL. SHARED NEUTRALS ARE NOT PERMITTED.

VOLTAGE DROP SCHEDULE

120 VOLT BRANCH CIRCUITS UP TO 10 AMPS

TOTAL WIRE LENGTH (FEET)	WIRE SIZE (AWG)
1' - 100'	#12
101' - 150'	#10
151' - 240'	#8
241' - 380'	#6

120 VOLT BRANCH CIRCUITS UP TO 14 AMPS

TOTAL WIRE LENGTH (FEET)	WIRE SIZE (AWG)
1' - 75'	#12
76' - 115'	#10
116' - 185'	#8
186' - 290'	#6

277 VOLT BRANCH CIRCUITS UP TO 16 AMPS

RUN DISTANCE IN FEET	WIRE SIZE AWG
1' - 140'	#12
141' - 225'	#10
226' - 345'	#8
346' - 546'	#6

MINIMUM LIGHTING CIRCUIT WIRING IS #12 AWG. CONTRACTOR SHALL INCREASE WIRE SIZE BASED ON SCHEDULE ABOVE.

SYMBOL LIST

	CONDUIT RUN IN OR BELOW FLOOR SLABS - MAINTAIN 2" MINIMUM CONCRETE COVER ABOVE CONDUIT
	CEILING OUTLET BOX AND FLUORESCENT LIGHTING FIXTURE.
	INDUSTRIAL OR STRIP FLUORESCENT LIGHTING FIXTURE. INDICATES "EM" - EMERGENCY BATTERY PACK REQUIRED.
	CEILING OUTLET BOX AND FLUORESCENT LIGHTING FIXTURE WITH "EM" - EMERGENCY BATTERY PACK REQUIRED.
	EMERGENCY LIGHTING FIXTURE, INTEGRAL BATTERY
	EXIT LIGHT FIXTURE
	EXIT LIGHT FIXTURE, WALL MOUNTED
GFI, 16	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE. MOUNT 18" AFF, UNLESS NOTED. COLOR OF RECEPTACLE SHALL BE WHITE WITH WHITE COVER PLATE "TV" INDICATES CEILING MOUNTED TELEVISION RECEPTACLE. "VCR" INDICATES WALL MOUNTED VCR RECEPTACLE. "IG" INDICATES ISOLATED GROUND RECEPTACLE - ORANGE IN COLOR. "GFI" INDICATES GROUND FAULT INTERRUPTING RECEPTACLE. "WP6" INDICATES WEATHERPROOF GFI RECEPTACLE.
	TWO GANG WALL OUTLET BOX AND 20 AMP TWO DUPLEX RECEPTACLES.
	SPECIALTY TYPE SIMPLEX RECEPTACLE, 15 AMPERE, MOUNT AS INDICATED, HUBBELL 5235
	TELEPHONE LINE WALL OUTLET BOX AND PLATE WITH MINIMUM 3/4" CONDUIT TO ABOVE ACCESSIBLE FINISHED CEILING. PROVIDE PULL CORD. ANALOG LINE.
	DATA CABLE LOCATION.
	PULL BOX, FLUSH MOUNTED OR ABOVE CEILING, UNLESS OTHERWISE NOTED. SIZE AS REQUIRED.
M FI	EQUIPMENT CONNECTION, WITH DESIGNATION FROM ELECTRIC EQUIPMENT AND CONTROL SCHEDULE
¢ FI	LOCATION OF ONE OR MORE EQUIPMENT CONTROL DEVICES AS SCHEDULED ON ELECTRIC EQUIPMENT AND CONTROL SCHEDULE. NUMBER REFERS TO EQUIPMENT CONTROLLED
NF	NON FUSED DISCONNECT SWITCH, VOLTAGE TO MATCH EQUIPMENT SERVED.
F	FUSED DISCONNECT SWITCH, VOLTAGE RATING TO MATCH EQUIPMENT SERVED.
PB	EDWARD'S #600 - 48V BRASS WEATHERPROOF PUSH BUTTON E.C. TO INSTALL AND WIRE AT BACKDOOR.
B	EDWARD'S #340-465 - 24V AC 4" BELL WITH 120V AC / 24V AC TRANSFORMER. E.C. TO INSTALL AND WIRE AT BACKDOOR.
	SPECIAL PURPOSE RECEPTACLE AS REQUIRED. VERIFY EXACT LOCATION IN FIELD WITH DICK'S REPRESENTATIVE.
J P	POWER CONNECTION TO LOCAL DOOR ALARM
	(2) DUPLEX RECEPTACLE OUTLETS, WITH FLUSH SQUARE 2 GANG CAST IRON FLOOR BOX. PROVIDE BRASS COVER PLATE - HUBBEL OR EQUAL
T S	TEMPERATURE SENSOR
T	THERMOSTAT - PROVIDED BY MECH. CONTRACTOR. WIRED AND MOUNTED BY E.C. MTD. 4'-0" UNLESS NOTED OTHERWISE.
T R	REVERSE ACTING THERMOSTAT - PROVIDED BY MECH. CONTRACTOR. WIRED AND MOUNTED BY E.C. MTD. 4'-0" UNLESS NOTED OTHERWISE.
$	ONE HR. TIMER SWITCH FURNISHED BY MECH. CONTRACTOR, INSTALLED AND WIRED BY E.C.
#	CODED DRAWING NOTE
AFF	DIMENSION ABOVE FINISHED FLOOR TO BOTTOM OF DEVICE
GH	GLOBAL HUMIDITY SENSOR
H	HUMIDITY SENSOR
THC	COMBINED TEMPERATURE / RELATIVE HUMIDITY / CARBON DIOXIDE SENSOR
A	ANTENNA LOCATION
I	WIRELESS CALL BOX
$m	120/277V AUTOMATIC WALL SWITCH WITH OCCUPANCY SENSING AND TIMED SHUT OFF. MATT STOPPER MODEL #PM-101PA BY VENDOR #18
$m3	120/277V AUTOMATIC WALL SWITCH WITH OCCUPANCY SENSING, TIMED SHUT OFF AND 3-WAY FUNCTIONALITY. MATT STOPPER MODEL #PM-301PA BY VENDOR #18
AP	ACCESS POINTS IN CEILING.
OS	ULTRASONIC CEILING MOUNT OCCUPANCY SENSOR - MATTSTOPPER #CB500A OR EQUAL (FOR USE WITH MATTSTOPPER #BZ-50 POWER PACK). BY VENDOR #18
M2	INFRARED CEILING MOUNT OCCUPANCY SENSOR - MATTSTOPPER #CB250CMB-L3 OR EQUAL BI-DIRECTIONAL. BY VENDOR #18
PB	EDWARDS #642, 120V, PUSH BUTTON BY E.C. FOR FRONT OF STORE.
B	VIKING SR-1, 120V AC/13.8V AC 1.25A, WITH MODEL 25AE. BY E.C. FOR RETAIL FLOOR AND OFFICE SUITE.
	FLUSH SINGLE GANG CAST IRON FLOOR BOX FOR DATA / TELEPHONE CABLING. PROVIDE BRASS COVER PLATE - HUBBEL OR EQUAL.
OC	LOW VOLTAGE CEILING MOUNT OCCUPANCY SENSOR - REFER TO DETAIL 2/E1.0 FOR ADDITIONAL INFORMATION
$L	LOW VOLTAGE VACANCY SWITCH - REFER DETAIL 2/E1.0 FOR ADDITIONAL INFORMATION
$D	0-10V DIMMING SWITCH FURNISHED BY VENDOR #18 AND INSTALLED BY E.C.

ALL WALL SWITCHES SHALL BE MOUNTED AT 46" ABOVE FINISHED FLOOR IN ACCORDANCE TO ADA REQUIREMENTS.

McHenry & Associates Incorporated
MC&A
Consulting Engineers est. 1960
25001 Emery Road, Suite #200
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Email: mail@mchenryassociates.com
Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
MISCELLANEOUS SCHEDULES

SHEET NUMBER:
E4.0

Mar 26, 2021 - 04:54:54 DWG Name: G:\Jobs\2021\Fox\56KYPL Port St Lucie\Drawings\01-Bid Permit\12893_E1.12893_E04.0.dwg Updated By: mstorrar

PANEL B

VOLTAGE: 208/120 | MAINS: 80A M.C.B | LOCATION: IFS SWITCHBOARD
PH & WIRES: 3P 4W | AIC RATING: 10 KAIC | FEEDER AMPACITY: 80
BUSSING AMPS: 100A | MOUNTING: IN SWITCHGEAR | REMARKS: SEE ONE-LINE DIAGRAM ON E6.0

	LOAD DESCRIPTION	KVA	P	AMP	CCT	KVA LOADS PH A	PH B	PH C	CCT	AMP	P	KVA		LOAD DESCRIPTION
	EQ - DOOR OPERATOR	0.50	1	20	1	0.68	---	---	2	20	1	0.18		REC - REAR EXTERIOR
	EQ - DOOR SENSORMATIC	0.50	1	20	3	---	0.68	---	4	20	1	0.18		REC - FRONT EXTERIOR
	REC - SALES FLOOR	0.54	1	20	5	---	---	1.04	6	20	1	0.50	L	REC - PVM SECURITY TV'S
	REC - SALES FLOOR	0.36	1	20	7	0.72	---	---	8	20	1	0.36		REC - TECH BAR
	REC - SHOW WINDOW	0.36	1	20	9	---	0.72	---	10	20	1	0.36		REC - OFFICE AREA CONVENIENCE
	REC - OFFICE COPIER	0.70	1	20	11	---	---	1.24	12	20	1	0.54		REC - OFFICE
	REC - OFFICE COPIER	0.70	1	20	13	1.70	---	---	14	20	1	1.00		REC - BREAK ROOM / VENDING
G	REC - BREAK ROOM / REFRIGERATOR	0.50	1	20	15	---	1.50	---	16	20	1	1.00		REC - BREAK ROOM / VENDING
G	REC - BREAK ROOM / COFFEE MACH.	1.20	1	20	17	---	---	1.74	18	20	1	0.54		REC - BREAK ROOM
G	REC - BREAK ROOM / MICROWAVE	1.20	1	20	19	1.38	---	---	20	20	1	0.18		REC - GOLF CLUB SERVICE AREA
	REC - GOLF CLUB SERVICE AREA	0.54	1	20	21	---	0.90	---	22	20	1	0.36		REC - GOLF CLUB SERVICE AREA
	SPARE	0.00	1	20	23	---	---	0.70	24	20	1	0.70		EQ - EF3 ●
	SPARE	0.00	1	20	25	0.36	---	---	26	20	1	0.36		REC - PUTTING GREEN
	SPARE	0.00	1	20	27	---	0.70	---	28	20	1	0.70		EQ - EF4 ●
	SPARE	0.00	1	20	29	---	---	0.70	30	20	1	0.70		EQ - EF5 ●
	SPARE	0.00	1	20	31	0.00	---	---	32	20	1	0.00		SPARE
	SPACE	0.00	1	–	33	---	0.00	---	34	20	1	0.00		SPARE
	SPACE	0.00	1	–	35	---	---	0.00	36	20	1	0.00		SPARE
	SPACE	0.00	1	–	37	0.00	---	---	38	–	1	0.00		SPACE
	SPACE	0.00	1	–	39	---	0.00	---	40	–	1	0.00		SPACE
	SPACE	0.00	1	–	41	---	---	0.00	42	–	1	0.00		SPACE
	CONNECTED AMPS:				40.97	4.84	4.50	5.42	CONNECTED KVA:			14.76		

NOTES: PROVIDE SOLID NEUTRAL BUS & GROUND BAR.
G = INDICATES GFCI TYPE CIRCUIT BREAKER
L = INDICATES LOCK-ON CIRCUIT BREAKER
● = REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULED ON E4.0

Demand Load Amps = 52.0

	Connected	Demand
Lighting	0.00	0.00
Signage	0.00	0.00
Show Window Length	0.36	5.00
Track Amps	0.00	0.00
Track Length	0.00	0.00
Receptacles	11.30	10.65
Ac Units	0.00	0.00
Elec. Heat	0.00	0.00
Hot Water Htr.	0.00	0.00
Kitchen Equip.	0.00	0.00
Miscellaneous	3.10	3.10
Total kVA	14.8	18.8
Total Amps	41.0	52.0

PANEL D

VOLTAGE: 208/120 | MAINS: 80A M.C.B. | LOCATION: IFS SWITCHBOARD
PH & WIRES: 3P 4W | AIC RATING: 10 KAIC | FEEDER AMPACITY: 80
BUSSING AMPS: 100A | MOUNTING: IN SWITCHGEAR | REMARKS: SEE ONE-LINE DIAGRAM ON E6.0

	LOAD DESCRIPTION	KVA	P	AMP	CCT	KVA LOADS PH A	PH B	PH C	CCT	AMP	P	KVA		LOAD DESCRIPTION
	LTS - DOCK LIGHT / OUTLETS	0.18	1	20	1	0.56	---	---	2	20	1	0.38		REC - AUT. SINK FAUCET
	REC - FLOOR BUFFER	1.00	1	20	3	---	1.50	---	4	20	1	0.50		REC - WATER COOLER G
	REC - ELECTRICAL ROOM	0.18	1	20	5	---	---	0.68	6	20	1	0.50		REC - WATER COOLER G
	REC - CHECKOUTS	0.72	1	20	7	1.08	---	---	8	20	1	0.36		REC - STOCKROOM
	REC - CHECKOUTS	0.36	1	20	9	---	0.90	---	10	20	1	0.54		REC - CHECKOUTS
G	REC - PEPSI MACHINE	1.50	1	20	11	---	---	1.66	12	20	1	0.16		LTS - RESTROOMS L
	REC - ROOF TOP RCPT.	1.08	1	20	13	1.28	---	---	14	20	1	0.20		EQ - VENDER #16 NOVAR EMS-1
	SPARE	0.00	1	20	15	---	0.20	---	16	20	1	0.20		EQ - VENDOR #16 NOVAR EMS-2
●	EQ - EWH-1	1.00	2	20	17	---	---	1.00	18	20	1	0.00		SPARE
		1.00			19	1.00	---	---	20	20	1	0.00		SPARE
	SPARE	0.00	1	20	21	---	0.00	---	22	20	1	0.00		SPARE
	SPARE	0.00	1	20	23	---	---	0.00	24	–	1	0.00		SPACE
	SPARE	0.00	1	20	25	0.00	---	---	26	–	1	0.00		SPACE
	SPACE	0.00	1	–	27	---	0.00	---	28	–	1	0.00		SPACE
	SPACE	0.00	1	–	29	---	---	0.00	30	–	1	0.00		SPACE
	SPACE	0.00	1	–	31	0.50	---	---	32	20	1	0.50		EQ - F.A.C.P. L
	SPACE	0.00	1	–	33	---	0.10	---	34	20	1	0.10		EQ - SECURITY PANEL L
L	EQ - DELAYED EGRESS SYSTEM	0.10	1	20	35	---	---	0.30	36	20	1	0.20		EQ - TELEPHONE EQUIP. L
	SPACE	0.00	1	–	37	0.20	---	---	38	20	1	0.20		EQ - F.A.C.P IP COMMUNICATOR. L
	SPACE	0.00	1	–	39	---	0.20	---	40	20	1	0.20		EQ - SECURITY IP COMMUNICATOR. L
	SPACE	0.00	1	–	41	---	---	0.00	42	–	1	0.00		SPACE
	CONNECTED AMPS:				30.98	4.62	2.90	3.64	CONNECTED KVA:			11.16		

NOTES: PROVIDE SOLID NEUTRAL BUS & GROUND BAR.
G = INDICATES GFCI TYPE CIRCUIT BREAKER
L = INDICATES LOCK-ON CIRCUIT BREAKER
● = REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULED ON E4.0

Demand Load Amps = 32.6

	Connected	Demand
Lighting	0.34	0.43
Signage	0.00	0.00
Show Window Length	0.00	0.00
Track Amps	0.00	0.00
Track Length	0.00	0.00
Receptacles	7.12	7.12
Ac Units	0.00	0.00
Elec. Heat	0.00	0.00
Hot Water Htr.	2.00	2.50
Kitchen Equip.	0.00	0.00
Miscellaneous	1.70	1.70
Total kVA	11.2	11.7
Total Amps	31.0	32.6

PANEL IG

VOLTAGE: 208/120 | MAINS: 50A M.C.B. | LOCATION: IFS SWITCHBOARD
PH & WIRES: 3P 4W | AIC RATING: 10 KAIC | FEEDER AMPACITY: 55
BUSSING AMPS: 100A | MOUNTING: IN SWITCHGEAR | REMARKS: SEE ONE-LINE DIAGRAM ON E6.0

	LOAD DESCRIPTION	KVA	P	AMP	CCT	KVA LOADS PH A	PH B	PH C	CCT	AMP	P	KVA		LOAD DESCRIPTION
	IG REC - CHECK-IN	0.20	1	20	1	0.74	---	---	2	20	1	0.54		IG REC - PGA INSTRUCTION
	IG REC - DATA MDF	0.36	1	20	3	---	0.46	---	4	20	1	0.10		IG REC - EMPLOYEE TIME CLOCK
	IG REC - ALL IN ONE PC	0.20	1	20	5	---	---	0.20	6	20	1	0.00		SPARE
	IG REC - OFFICE	0.72	1	20	7	0.72	---	---	8	20	1	0.00		SPARE
	IG REC - CHECKOUTS	0.50	1	20	9	---	1.22	---	10	20	1	0.72		IG REC - GOLF SIMULATOR
	IG REC - CHECKOUTS	0.50	1	20	11	---	---	1.22	12	20	1	0.72		IG REC - GOLF SIMULATOR
	IG REC - CHECKOUTS	0.50	1	20	13	1.04	---	---	14	20	1	0.54		IG REC - GOLF SIMULATOR
	SPARE	0.00	1	20	15	---	0.00	---	16	20	1	0.00		SPARE
	IG REC - GOLF SERVICE PC	0.36	1	20	17	---	---	0.56	18	20	1	0.20		EQ - ADT CELL BACK-UP
	IG REC - GOLF SERVICE CHECKOUT	0.36	1	20	19	0.76	---	---	20	20	1	0.40		EQ - SPECIAL SYSTEMS PHONE BD
	SPARE	0.00	1	20	21	---	0.00	---	22	20	1	0.00		SPARE
	SPARE	0.00	1	20	23	---	---	0.00	24	20	1	0.00		SPARE
	IG REC - IDF	0.10	1	20	25	0.20	---	---	26	20	1	0.10		EQ - ADT L
	SPACE	0.00	1	–	27	---	0.00	---	28	–	1	0.00		SPACE
	SPACE	0.00	1	–	29	---	---	0.00	30	–	1	0.00		SPACE
	SPACE	0.00	1	–	31	0.00	---	---	32	–	1	0.00		SPACE
	SPACE	0.00	1	–	33	---	0.00	---	34	–	1	0.00		SPACE
	SPACE	0.00	1	–	35	---	---	0.00	36	–	1	0.00		SPACE
	SPACE	0.00	1	–	37	0.00	---	---	38	–	1	0.00		SPACE
	SPACE	0.00	1	–	39	---	0.00	---	40	–	1	0.00		SPACE
	SPACE	0.00	1	–	41	---	---	0.00	42	–	1	0.00		SPACE
	CONNECTED AMPS:				19.76	3.46	1.68	1.98	CONNECTED KVA:			7.12		

NOTES: PROVIDE SOLID NEUTRAL BUS, GROUND BAR & ISOLATED GROUND BAR.
L = INDICATES LOCK-ON CIRCUIT BREAKER

Demand Load Amps = 19.8

	Connected	Demand
Lighting	0.00	0.00
Signage	0.00	0.00
Show Window Length	0.00	0.00
Track Amps	0.00	0.00
Track Length	0.00	0.00
Receptacles	6.42	6.42
Ac Units	0.00	0.00
Elec. Heat	0.00	0.00
Hot Water Htr.	0.00	0.00
Kitchen Equip.	0.00	0.00
Miscellaneous	0.70	0.70
Total kVA	7.1	7.1
Total Amps	19.8	19.8

PANEL A

VOLTAGE: 480/277 | MAINS: M.L.O. | LOCATION: IFS SWITCHGEAR
PH & WIRES: 3P 4W | AIC RATING: 65 KAIC | FEEDER AMPACITY: 110
BUSSING AMPS: 100A | MOUNTING: IN SWITCHGEAR | REMARKS: SEE ONE-LINE DIAGRAM ON E6.0

	LOAD DESCRIPTION	KVA	P	AMP	CCT	KVA LOADS PH A	PH B	PH C	CCT	AMP	P	KVA		LOAD DESCRIPTION
L	LTS - NIGHT/EMERG	0.98	1	20	1	2.79	---	---	2	20	1	1.80		LTS - EMPLOYEE SALES AREA C
L	LTS - NIGHT/EMERG	0.33	1	20	3	---	0.33	---	4	20	1	0.00		SPARE C
C	SPARE	0.00	1	20	5	---	---	0.00	6	20	1	0.00		SPARE C
C	SPARE	0.00	1	20	7	0.00	---	---	8	20	1	0.00		SPARE C
C	LTS - CUSTOMER SALES AREA	1.50	1	20	9	---	3.40	---	10	20	1	1.90		LTS - CUSTOMER SALES AREA C
C	SPARE	0.00	1	20	11	---	---	0.00	12	20	1	0.00		SPARE C
	SPARE	0.00	1	20	13	0.00	---	---	14	20	1	0.00		SPARE
	SPARE	0.00	1	20	15	---	0.00	---	16	20	1	0.00		SPARE
	SPARE	0.00	1	20	17	---	---	0.00	18	20	1	0.00		SPARE
	SPACE	0.00	1	–	19	0.00	---	---	20	–	1	0.00		SPACE
	SPACE	0.00	1	–	21	---	0.00	---	22	–	1	0.00		SPACE
	SPACE	0.00	1	–	23	---	---	0.00	24	–	1	0.00		SPACE
	LTS - STOCK ROOM	0.57	1	20	25	1.26	---	---	26	20	1	0.68		LTS - GOLF FITTING / PGA / RANGE E
C	LTS - CORRIDORS	0.06	1	20	27	---	0.06	---	28	–	–	0.00		EMERGENCY LIGHTING
	LTS - OFFICE AREA	0.62	1	20	29	---	---	0.62	30	–	1	0.00		SPACE
	SPACE	0.00	1	–	31	0.00	---	---	32	–	1	0.00		SPACE
	SPACE	0.00	1	–	33	---	0.00	---	34	–	1	0.00		SPACE
	SPACE	0.00	1	–	35	---	---	0.41	36	20	1	0.41		LTS - FRONT / CANOPY E
	SPACE	0.00	1	–	37	0.00	---	---	38	–	–	0.00		EMERGENCY LIGHTING
	SPACE	0.00	1	–	39	---	0.08	---	40	20	1	0.08		LTS - EXTERIOR BUILDING E
C	BUILDING SIGNAGE	1.20	1	20	41	---	---	1.20	42	–	–	0.00		EMERGENCY LIGHTING
	CONNECTED AMPS:				12.20	4.04	3.87	2.23	CONNECTED KVA:			10.15		

NOTES: PROVIDE SOLID NEUTRAL BUS & GROUND BAR.
C = INDICATES CONTROLLED CIRCUIT BREAKER
E = INDICATES CONTROLLED CIRCUIT BREAKER W/ ADDITIONAL UNCONTROLLED EMERGENCY LIGHTING CIRCUIT BREAKER
CONTROLLABLE CIRCUIT BREAKER THAT CONTROLS EMERGENCY LIGHTING SHALL HAVE 2 POLES. ONE POLE SHALL BE UNCONTROLLED
THIS CIRCUIT BREAKER WILL USE 2 SPACES. ROUTE THE UNSWITCHED POLE TO EMERGENCY LIGHTING.
L = INDICATES LOCK-ON CIRCUIT BREAKER

Demand Load Amps = 15.3

	Connected	Demand
Lighting	8.95	11.18
Signage	1.20	1.50
Show Window Length	0.00	0.00
Track Amps	0.00	0.00
Track Length	0.00	0.00
Receptacles	0.00	0.00
Ac Units	0.00	0.00
Elec. Heat	0.00	0.00
Hot Water Htr.	0.00	0.00
Kitchen Equip.	0.00	0.00
Miscellaneous	0.00	0.00
Total kVA	10.1	12.7
Total Amps	12.2	15.3

PANEL MDP

VOLTAGE: 480/277 | MAINS: 600A M.C.B. | LOCATION: IFS SWITCHBOARD
PH & WIRES: 3P 4W | AIC RATING: 65 KAIC | FEEDER AMPACITY: 570
BUSSING AMPS: 600A | MOUNTING: IN SWITCHGEAR | REMARKS: SEE ONE-LINE DIAGRAM ON E6.0

LOAD DESCRIPTION	KVA	P	AMP	CCT	KVA LOADS PH A	PH B	PH C	CCT	AMP	P	KVA	LOAD DESCRIPTION
	4.04				13.50	---	---				9.46	
PANEL 'A'	3.87	3	100	1	---	11.27	---	2	70	3	7.40	PANELS 'B' & 'D'
	2.23				---	---	11.29				9.06	(VIA 45 KVA TRANSFORMER)
	5.97				5.98	---	---				0.01	
PANELS 'C' & 'IG'	6.02	3	400	3	---	6.03	---	4	20	3	0.01	EQ - PHASE LOSS TRANSDUCER
(VIA 45 KVA TRANSFORMER)	5.23				---	---	5.24				0.01	
	6.15				12.30	---	---				6.15	
RTU-1	6.15	3	30	5	---	12.30	---	6	30	3	6.15	RTU-4
	6.15				---	---	12.30				6.15	
	6.15				11.94	---	---				5.79	
RTU-2	6.15	3	30	7	---	11.94	---	8	30	3	5.79	RTU-5
	6.15				---	---	11.94				5.79	
	6.15				9.34	---	---				3.19	
RTU-3	6.15	3	30	9	---	9.34	---	10	20	3	3.19	RTU-6
	6.15				---	---	9.34				3.19	
	0.00				0.00	---	---				0.00	
SPARE	0.00	3	–	11	---	0.00	---	12	–	3	0.00	SPARE
	0.00				---	---	0.00				0.00	
	0.00				3.90	---	---				3.90	
SPARE	0.00	3	–	13	---	3.90	---	14	30	3	3.90	EQ - COMPACTOR ●
	0.00				---	---	3.90				3.90	
CONNECTED AMPS:				199.41	56.97	54.79	54.02	CONNECTED KVA:			165.78	

NOTES: PROVIDE SOLID NEUTRAL BUS & GROUND BAR.

Demand Load Amps 222.3

	Connected	Demand
Lighting	12.60	15.75
Signage	1.20	1.50
Show Window Length	0.36	5.00
Track Amps	3.48	22.16
Track Length	0.00	0.00
Receptacles	26.56	18.28
Ac Units	100.76	100.76
Elec. Heat	0.00	0.00
Hot Water Htr.	2.00	2.50
Kitchen Equip.	0.00	0.00
Miscellaneous	18.83	18.83
Total kVA	165.8	184.8
Total Amps	199.4	222.3

PANEL C

VOLTAGE: 208/120 | MAINS: 100A M.C.B. | LOCATION: IFS SWITCHBOARD
PH & WIRES: 3P 4W | AIC RATING: 25 KAIC | FEEDER AMPACITY: 110
BUSSING AMPS: 100A | MOUNTING: IN SWITCHGEAR | REMARKS: SEE ONE-LINE DIAGRAM ON E6.0

	LOAD DESCRIPTION	KVA	P	AMP	CCT	KVA LOADS PH A	PH B	PH C	CCT	AMP	P	KVA		LOAD DESCRIPTION
C	LTS - CUSTOMER TRACKS	0.99	1	20	1	1.49	---	---	2	20	1	0.50		LTS - GGXY JOY DISPLAY C
C	LTS - CUSTOMER TRACKS	1.09	1	20	3	---	1.09	---	4	20	1	0.00		SPARE C
C	LTS - CUSTOMER TRACKS	1.08	1	20	5	---	---	1.24	6	20	1	0.16		EQ - STORE FRONT DOOR BELL C
C	LTS - CUSTOMER TRACKS	0.32	1	20	7	0.52	---	---	8	20	1	0.20		MEN'S CLUBS SIGNAGE C
C	REC - DISPLAY WINDOW LIGHTING	0.36	1	20	9	---	1.36	---	10	20	1	1.00		LTS - GOLF DISPLAY VALENCE C
C	REC - DISPLAY WINDOW LIGHTING	0.36	1	20	11	---	---	1.36	12	20	1	1.00		LTS - GOLF DISPLAY VALENCE C
C	SPARE	0.00	1	20	13	0.50	---	---	14	20	1	0.50		REC - MAIN EQUIPMENT RACK C
C	LTS - GOLF SERVICES DISPLAY	0.50	1	20	15	---	1.00	---	16	20	1	0.50		REC - MAIN EQUIPMENT RACK
C	SPARE	0.00	1	20	17	---	---	0.11	18	20	1	0.11		LTS - FITTING ROOMS E
C	SPARE	0.00	1	20	19	0.00	---	---	20	–	–	0.00		EMERGENCY LIGHTING
C	SPARE	0.00	1	20	21	---	0.00	---	22	20	1	0.00		SPARE
C	SPARE	0.00	1	20	23	---	---	0.00	24	20	1	0.00		SPARE
	SPACE	0.00	1	–	25	0.00	---	---	26	20	1	0.00		SPARE
	SPACE	0.00	1	–	27	---	0.00	---	28	20	1	0.00		SPARE
	SPACE	0.00	1	–	29	---	---	0.00	30	20	1	0.00		SPARE
	SPACE	0.00	1	–	31	0.00	---	---	32	20	1	0.00		SPARE
	SPACE	0.00	1	–	33	---	0.70	---	34	20	1	0.70		EQ - EF1 ●
	SPACE	0.00	1	–	35	---	---	0.54	36	20	1	0.54		EQ - EF2 ●C
	SPACE	0.00	1	–	37	0.00	---	---	38	–	1	0.00		SPACE
	SPACE	0.00	1	–	39	---	0.20	---	40	20	1	0.20		EQ - RP-1 ●C
	SPACE	0.00	1	–	41	---	---	0.00	42	–	1	0.00		SPACE
	CONNECTED AMPS:				28.05	2.51	4.34	3.25	CONNECTED KVA:			10.11		

NOTES: PROVIDE SOLID NEUTRAL BUS & GROUND BAR.
C = INDICATES CONTROLLED CIRCUIT BREAKER
E = INDICATES CONTROLLED CIRCUIT BREAKER W/ ADDITIONAL UNCONTROLLED EMERGENCY LIGHTING CIRCUIT BREAKER
CONTROLLABLE CIRCUIT BREAKER THAT CONTROLS EMERGENCY LIGHTING SHALL HAVE 2 POLES. ONE POLE SHALL BE UNCONTROLLED
THIS CIRCUIT BREAKER WILL USE 2 SPACES. ROUTE THE UNSWITCHEWD POLE TO EMERGENCY LIGHTING.
● = REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULED ON E4.0

Demand Load Amps = 47.3

	Connected	Demand
Lighting	3.31	4.14
Signage	0.00	0.00
Show Window Length	0.00	0.00
Track Amps	3.48	9.60
Track Length	0.00	0.00
Receptacles	1.72	1.72
Ac Units	0.00	0.00
Elec. Heat	0.00	0.00
Hot Water Htr.	0.00	0.00
Kitchen Equip.	0.00	0.00
Miscellaneous	1.60	1.60
Total kVA	10.1	17.1
Total Amps	28.0	47.3

MAIN DISTRIBUTION PANEL

		LOAD (KVA)	D.F.	NEC LOAD (KVA)
NON-CONTINUOUS LOADS				
– RECEPTACLES AT 180 VA EACH		26.6	NEC	18.3
– HVAC LOAD (GREATER OF HEATING/COOLING)		100.8	100%	100.8
HEATING =	0.0 KVA			
COOLING =	100.8 KVA			
– MISCELLANEOUS		18.8	100%	18.8
CONTINUOUS LOADS				
– GENERAL LIGHTING		45.1	125%	56.4
NEC METHOD=	45.1 KVA			
15,042 SQ. FT. X 3.0 VA / SQ. FT.				
ACTUAL LOAD=	12.6 KVA			
– OUTSIDE SIGN CIRCUITS		1.2	125%	1.5
1 X 1200 VA/EA. =				
– TRACK LIGHTING		9.6	125%	12.0
80 AMPS X VOLTAGE =				
– HOT WATER HEATER		2.0	125%	2.5
MINIMUM SIZE SERVICE				
– SUB TOTAL NON-CONTINUOUS LOADS				137.9
– SUB TOTAL CONTINUOUS LOADS				72.4
			TOTAL =	210.3 KVA
SERVICE VOLTAGE =	480			
PHASE =	3		AMPS =	252.9

ENERGY MANAGEMENT CONTROL SCHEDULE

DESCRIPTION	CIRCUITS
EMPLOYEE LIGHTING	A2, A27 C36, C40
CUSTOMER LIGHTING	A9, A10, A26 C1, C2, C3, C5, C7, C8, C9, C10, C11, C12, C15, C18
CANOPY LIGHTING / BUILDING SIGNS	A36, A41
SECURITY LIGHTING	A40
TELEVISIONS & EQUIPEMENT RACKS (SAME AS CUSTOMER LIGHTING)	C14
EMPLOYEE DOORBELL	C6

GENERAL PANEL NOTES:

1. ELECTRICAL CONTRACTOR SHALL BALANCE CURRENT IN ALL PANELS. MODIFY AND/OR ADJUST CIRCUITS AS REQUIRED.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE INDIVIDUAL NEUTRAL CONDUCTORS FOR ALL CIRCUITS PER NEC 200.4.

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MC&A
Consulting Engineers est. 1960
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Phone: 216-292-4696
Fax: 216-292-5874
Email: mail@mchenryassociates.com
Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING: PANEL SCHEDULES

SHEET NUMBER: E5.0

Mar 26, 2021 - 10:09:04 DWG Name: G:\Jobs\2020\Fox\56XX\FL Port St Lucie\Drawings\01-Bid Permit\12839_E1\12839_E05.0.dwg Updated By: mstoraz

SQUARE 'D' IPACS TECH. SUPPORT:

1. IF ANY ISSUES ARISE THROUGHOUT THE PROJECT (INCLUDING AT THE TIME OF STARTUP) REGARDING THE SQUARE 'D' POWERWALL, POWERLINK PANELS, OR NOVAR CONNECTIVITY / COMMUNICATIONS, THE ELECTRICAL CONTRACTOR SHALL CONTACT SQUARE 'D' IPACS TECHNICAL SUPPORT FOR TROUBLESHOOT:
   A. FOR HOURS 8AM TO 5PM EST - MONDAY THROUGH FRIDAY, CALL (800) 868-4662
   B. FOR AFTER HOURS, WEEKENDS OR HOLIDAYS, CALL (704) 213-2026

TRANSFORMER SCHEDULE

XFMR	KVA	REMARKS
T-1	45	MOUNT IN PREFAB DISTRIBUTION CENTER, BY VENDOR #18
T-2	45	MOUNT IN PREFAB DISTRIBUTION CENTER, BY VENDOR #18

NOTE:
ALL TRANSFORMERS TO BE 3 PHASE 4 WIRE 480V WITH DELTA PRIMARY, DRY TYPE. 120/208 WYE SECONDARY.

CODED NOTES FOR FEEDER SIZES: ○

A. 3" SPARE (EMPTY) CONDUIT STUBBED UP 12" A.F.F. ADJACENT TO DISTRIBUTION PANEL
B. (4)#350 KCMIL CU. IN EACH OF (2) 3" CONDUITS
C. (4)#6 THWN CU. & (1)#10 THWN CU. GND, (1)#10 THWN CU. ISOLATED GROUND (BY OTHERS IN PREFAB DISTRIBUTION PANEL ONLY)
D. (4)#350 KCMIL CU. & (1)#1 THWN CU. GND IN EACH OF (2) 3" CONDUITS (BY ELECTRICAL CONTRACTOR)
E. (4)#1 THWN CU. & (1)#8 THWN CU. GND (BY OTHERS IN PREFAB DISTRIBUTION PANEL ONLY)
F. (3)#4 THWN CU. & (1)#8 THWN CU. GND (BY OTHERS IN PREFAB DISTRIBUTION PANEL ONLY)

PREFAB NOTES:

1. PREFABRICATED DISTRIBUTION PANEL IS PURCHASED THROUGH VENDOR #18 AND INSTALLED BY E.C.
2. ALL PANEL BOARDS AND TRANSFORMERS ARE MOUNTED WITHIN THE SWITCHBOARD.
3. PANEL "A" AND TRANSFORMERS ARE FACTORY PRE-WIRED TO PANEL "MDP". PANELS "B","C","D" AND "16" ARE FACTORY PRE-WIRED TO THE TRANSFORMERS.
4. THE LAST SECTION ON THE RIGHT CONTAINS ALL OF THE NOVAR CONTROL INTERFACE POINTS.
5. CUSTOMER CTS FOR USE BY NOVAR ARE INSTALLED IN THE INCOMING SECTION OF THE SWITCHBOARD.
6. SERIES RATE ALL SUB FEED BREAKERS IN PANEL "MDP".

ONE-LINE NOTES:

1. ALL INTERIOR FEEDERS BASED ON TYPE THWN (75 DEG C.) DRY LOCATION.
2. ALL LUGS ON PANELS ACCEPTING 75 DEG C WIRE SHALL HAVE A RATING OF AT LEAST 75 DEG C.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE TYPED PANEL INDEXES FOR ALL PANELS.
4. VERIFY ALL SERVICE REQUIREMENTS WITH UTILITY COMPANY. THIS SHALL INCLUDE TRANSFORMER SIZE, PAD OR VAULT DETAILS, BOLLARDS, GROUNDING, PRIMARY AND SECONDARY CONDUITS AND WIRE, METER, METER CONDUIT AND CT COMPARTMENT SIZE.
5. ALL FUSES SHALL BE CURRENT LIMITING TYPE. PROVIDE 3 SPARE FUSES OF EACH SIZE AND TYPE IN THE SPARE FUSE CABINET. CABINET SHALL BE SUPPLIED BY ELECTRICAL CONTRACTOR.
6. SERVICE ENTRANCE CONDUIT/WIRE SHALL BE RUN OUTSIDE OF BUILDING, UP REAR WALL AND INTO BACK OF MDP. IN NO CASE SHALL THE SERVICE ENTRANCE BE RUN INSIDE OF BUILDING.

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Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

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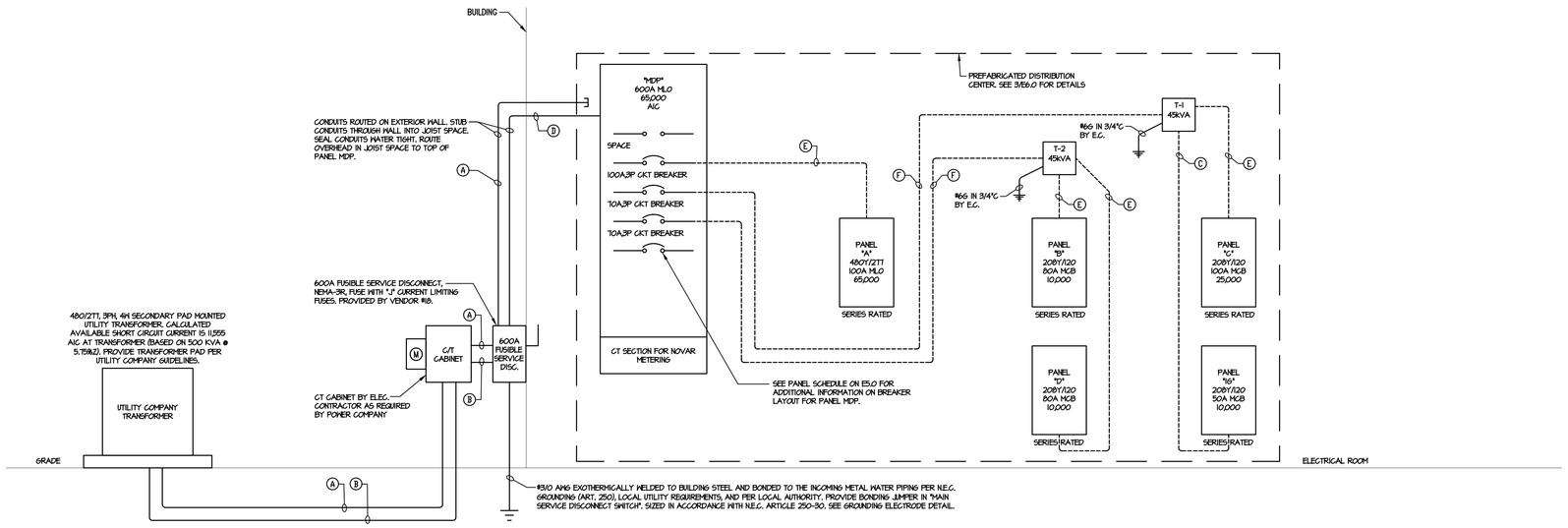
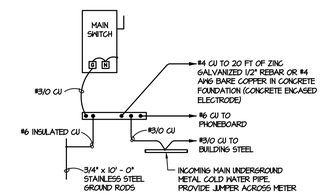


1 ONE-LINE RISER DIAGRAM

SCALE: N.T.S.



2 GROUNDING ELECTRODE DETAIL

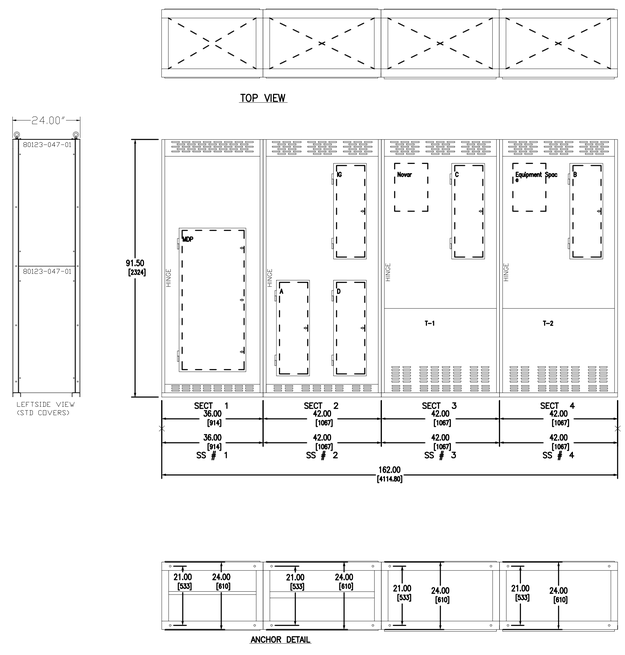
SCALE: N.T.S.

MDP SWITCHBOARD:

SQUARE 'D' ; FRONT ACCESS / FRONT - REAR ALIGNED
SERVICE VOLTAGE ; 480Y/277V 3 PHASE - 4 WIRE
MAIN BUS ; 600A NEUTRAL BUS ; 600A
BUS MATERIAL ; COPPER
INCOMING 600A (3) #250 - 750 MCM PER PHASE & NEUTRAL
(1) 350 MCM GROUND LUG SUPPLIED AS STANDARD
BUS BRACING ; 65 KAIC
STANDARD INTERRUPTING RATING ; 65 KAIC @ 480V
SERVICE ENTRANCE RATED (IF APPLICABLE)
SWITCHBOARD CONSTRUCTION MEETS UL-891
NEMA 1 ENCLOSURE FINISH ANSI-61

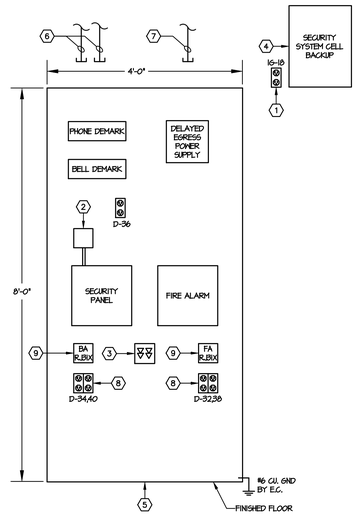
GENERAL NOTES:

1. THIS EQUIPMENT SHALL BE OBTAINED FROM VENDOR #18.
2. WHERE APPLICABLE, ALL PANELBOARDS AND TRANSFORMERS WILL BE FACTORY INSTALLED AND CABLED WITH NEC SIZED CONDUCTORS. SEE THE ONE LINE DIAGRAM FOR DETAILS. THE CONTRACTOR WILL BE REQUIRED TO MAKE ALL FINAL TERMINATIONS FOR PROPER TORQUE.
3. WHERE APPLICABLE, ALL INTEGRATED PANELBOARDS WILL BE RECESS MOUNTED IN THE SWITCHBOARD TO ALLOW FOR TOTAL FRONT ACCESS. A DEDICATED PANELBOARD WIREWAY IS ALSO PROVIDED.
4. WHERE FACTORY INSTALLED CABLING OCCURS BETWEEN SWITCHBOARD SHIPPING SPLITS, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FIELD TERMINATION OF THE CABLES. SEE ELEVATION VIEW DRAWING FOR SHIPPING SPLIT INFORMATION.
5. EACH SWITCHBOARD SHIPPING SPLIT WILL BE PALLETIZED AND SHIPPED IN AN ENCLOSED SEMI-TRAILOR. WHERE APPLICABLE, THE CONTRACTOR SHALL ARRANGE FOR A FORK TRUCK TO UNLOAD AND SET THE EQUIPMENT IN PLACE. A 24-HOUR NOTICE WILL BE GIVEN PRIOR TO DELIVERY.



3 PREFABRICATED MAIN DISTRIBUTION CENTER

SCALE: N.T.S.



5 SPECIAL SYSTEMS BACKBOARD

SCALE: N.T.S.

SPECIAL SYSTEMS BACKBOARD CODED NOTES: ⬡

1. 1.5. DUPLEX RECEPTACLE. FLUSH MOUNTED.
2. J-BOX W/ SECURITY SYSTEM OUTPUT SIM.
3. FOUR PORT COMMUNICATION'S BOX - FIRE 1, FIRE 2, BURG 1, BURG 2. BOX SHOULD BE INSTALLED NEAR THE FIRE AND BURGLAR ALARM PANELS. VERIFY WITH FIRE ALARM CONTRACTOR AS LOCAL CODES MAY REQUIRE THE FIRE JACKS TO BE INSTALLED WITHIN THE FIRE ALARM PANEL.
4. SECURITY SYSTEM CELL BACKUP POWER SUPPLY MOUNT ON WALL ABOVE 8'-0".
5. UNDER DIVISION 16 CONTRACTOR SHALL PROVIDE 8'x4'x3/4" PLYWOOD BACKBOARD, PAINTED BOTH SIDE GRAY ENAMEL, CONDUIT, AND POWER RECEPTACLES ONLY.
6. EXTEND (1) 3"C. AND (1) 1"C. AT DECK FROM SALES AREA TO SECURITY SYSTEM BOX ON PHONE BOARD. TURN DOWN IN WALL 1-FOOT DIRECTLY ABOVE SECURITY SYSTEM BOX. LABEL CONDUIT AS "SECURITY/FIRE ALARM".
7. EXTEND (1) 3"C. TO MDF/DATA ROOM. TURN DOWN IN WALL ABOVE MDF RACK. LABEL AS TO MDF/DATA ROOM.
8. DOUBLE DUPLEX RECEPTACLE. FLUSH MOUNTED.
9. INSTALL THE ASSOCIATED RJ31X JACKS NEAR THE FIRE ALARM AND BURGLAR ALARM PANELS. FIELD VERIFY INSTALLATION WITH FIRE ALARM CONTRACTOR AS LOCAL CODE MAY REQUIRE FIRE ALARM JACK TO BE INSTALLED WITHIN FIRE ALARM PANEL.

POWER REQUIREMENTS

PANEL	CIRCUIT	EQUIPMENT
D	40	SECURITY IP COMMUNICATOR
D	38	FACP IP COMMUNICATOR
D	36	TELEPHONE
D	35	DELAYED EGRESS POWER SUPPLY
D	34	SECURITY
D	32	FACP

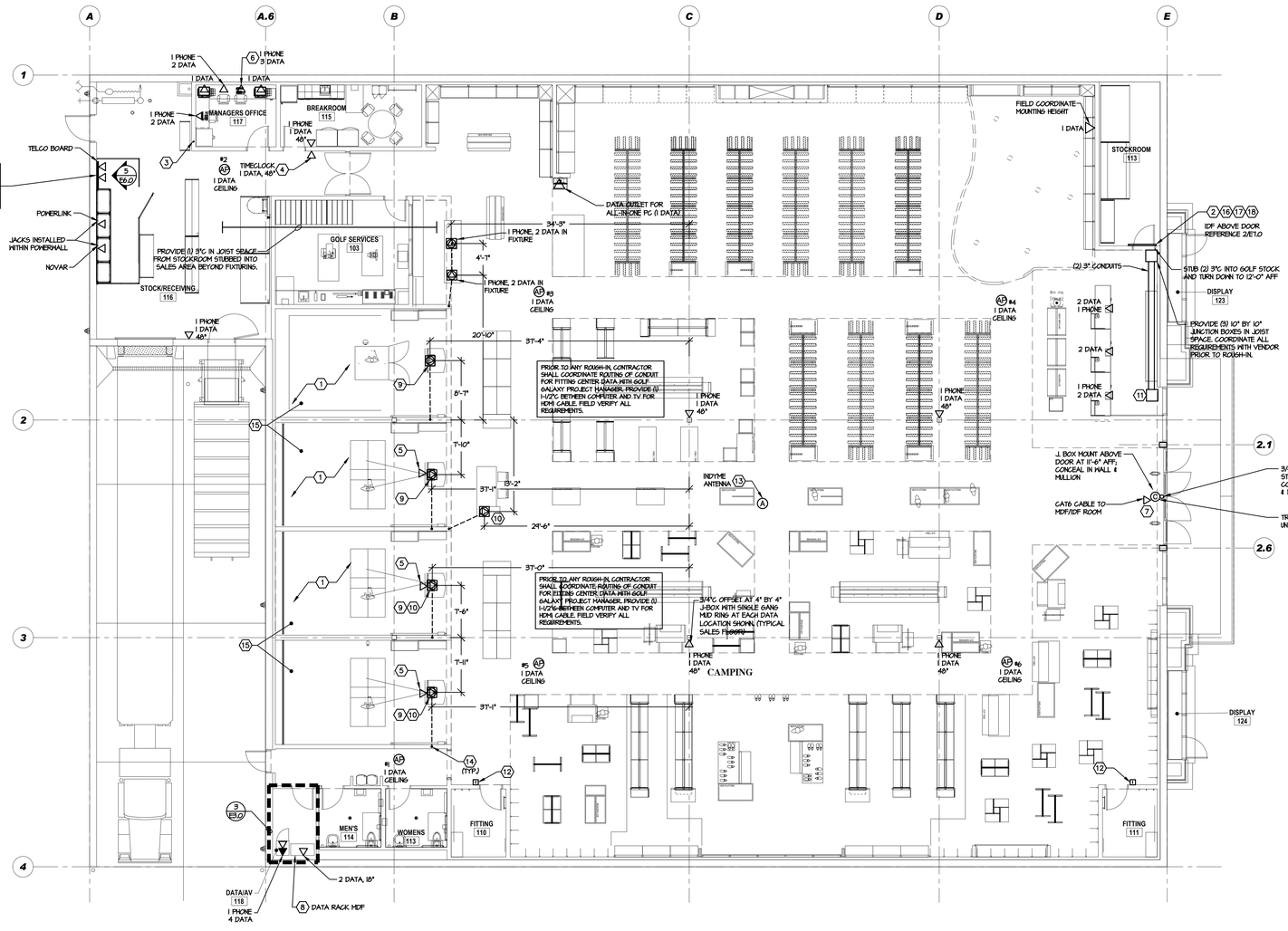
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING: ELECTRICAL DETAILS

SHEET NUMBER: E6.0

Mar 26, 2021 - 14:19:11 DWG Name: D:\Jobs\Fox Design Group\Golf Galaxy\FL Port St Lucie\01-Bid Permit\12833_E06.0.dwg Updated By: nvan

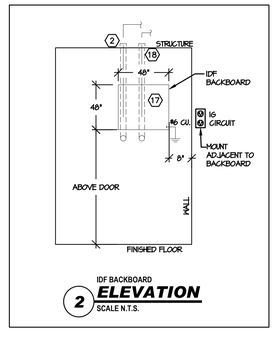


1 TELEPHONE/DATA SYSTEM PLAN

SCALE 1/8" = 1'-0"

TELEPHONE LINE CONFIGURATION		
LINE #	TYPE	USE
LINE 1	HUNT	MAIN LINE IN HUNT, RUN TO PHONE SYSTEM.
LINE 2	HUNT	RUN TO PHONE SYSTEM SECOND LINE IN HUNT
LINE 3	HUNT	RUN TO PHONE SYSTEM, SHARED W/ BACKUP FIRE ALARM (RUN BY FIRE ALARM VENDOR)
LINE 4	DEDICATED	PRIMARY FIRE ALARM (ON BLOCK ON BACKBOARD)
OPTIONAL LINES		
LINE 5	DEDICATED	DNR (IF NEEDED)

EXT	Store Location	Out Res.	EXT	Store Location	Out Res.	EXT	Store Location	Out Res.
210	Cash Room		228	Ext Lodge	x	246	Footwear Pad	x
211	Lodge		229	Women's Apparel	x	247		
212	Service Desk 1	x	230	Mens Nike	x	248		
213			231			249	Camping	x
214	Cash Reg 1&2	x	232	Youth Apparel	x	250		
215	Cash Reg 3&4	x	233			251	Bikes/Exercise	x
216	Cash Reg 5&6	x	234	Team Sports	x	252	Snow Sports	x
217	Cash Reg 7&8	x	235			253	Ship from Store	
218	Cash Reg 9&10 (If needed)	x	236			254	Mezzanine Stock Room	x
219	Cash Reg 11&12 (If needed)	x	237	Store Manager		255	Lunch Room	x
220	Cash Reg 13&14 (If needed)	x	238	Dept Manager 1		256	Loading Dock	x
221	Cash Reg 15&16 (If needed)	x	239	Dept Manager 2		257	RM/DM office (If needed)	x
222			240			258	RM/DM office (If needed)	x
223			241	Count Room	x	259		
224			242	Telco Room	x	260		
225			243			261	CMM office (If needed)	x
226			244	Footwear Stockroom	x	262	DLPM office (If needed)	x
227	Golf Department	x	245			263		



IDF BACKBOARD

2 ELEVATION

SCALE N.T.S.

NOTE:
VENDOR #13 TO COORDINATE ALL PHONE LOCATIONS PRIOR TO ELECTRICAL CONTRACTOR INSTALLING CONDUIT.

GENERAL NOTES:

A. MOUNT ALL WALL PHONES AT 48" AFF, UNLESS OTHERWISE NOTED

B. MOUNT ALL DESK PHONES AT 18" AFF, UNLESS OTHERWISE NOTED

C. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

D. ALL DATA CABLING SHALL BE HIRED FROM THE MDF OR IDF TO THE END POINT BY VENDOR #13. VENDOR #13 SHALL PROVIDE THE DATA CABLING.

E. AUDIO/VISUAL- VENDOR #13 TO TAKE FEED FROM AUDIO/VISUAL VENDOR #5 PAGING/AUDIO EQUIPMENT AND MAKE FINAL CONNECTION AT PAGE PAL EQUIPMENT PRIOR LEAVING THE JOB SITE. THIS EQUIPMENT IS LOCATED AT THE AV/MDF ROOM. VENDOR #13'S INSTALLATION TECH SHALL VERIFY WITH STORE MANAGER THAT PAGING AND PHONE SYSTEMS OPERATE AS REQUIRED.

F. VENDOR LIST-
TELEPHONE/DATA - VENDOR #13
PAGING/AUDIO/VISUAL - VENDOR #5
SECURITY - VENDOR #14
BUILDING MANAGEMENT - VENDOR #8

G. SURFACE MOUNTING OF LOW VOLTAGE WIRING IS PROHIBITED. ALL WIRING TO BE IN CONDUIT AND CONCEALED IN WALLS. EXPOSED WIRING MAY BE RUN ABOVE CEILINGS AND IN JOIST SPACE.

H. 3/4"C WITH 4" BY 4" J-BOX WITH SINGLE GANG MUD RING AT EACH DATA LOCATION SHOWN. (TYPICAL OFFICE AREA AND SERVICE COUNTERS)

I. 3/4"C OFFSET AT 4" BY 4" J-BOX WITH SINGLE GANG MUD RING AT EACH DATA LOCATION SHOWN. (TYPICAL SALES FLOOR)

J. ROUTE CONDUIT FROM DECK TO TOP OF VESTIBULE (OR ABOVE DOORS) FOR SPEAKER WIRE AND TRAFSYS.

K. ALL CONDUITS FOR LOW VOLTAGE WIRING SHALL BE PROVIDED WITH BUSHINGS AND PULL STRINGS.

L. VENDOR #13 SHALL COORDINATE THE TELEPHONE COMPANY UTILITY DEMARK LOCATION WITH THE ELECTRICAL CONTRACTOR PRIOR TO BID. VENDOR #13 IS RESPONSIBLE FOR COMPLETE INSTALLATION OF 25 PAIR TELEPHONE CABLE TO GOLF GALAXY TELEPHONE BACKBOARD FROM THE UTILITY DEMARK.

M. AP LOCATIONS SHOWN ARE FOR REFERENCE ONLY. OBTAIN EXACT LOCATIONS FROM NEW STORE SUPPORT.

N. ALL COAX CABLES AND SPEAKER CABLES TO ROUTE TO AV RACK IN AV/DATA ROOM. CAT6 CABLES CAN GO TO MDF OR IDF, WHICHEVER IS NEAREST.

O. ALL TV LOCATIONS GET A COAX AND A CAT6 CABLE.

P. CONFIRM TRAFSYS COUNTER REQUIREMENTS WITH EQUIPMENT INSTALLER. REQUIREMENTS ARE DETERMINED BY DOOR SIZE AND HEIGHT.

Q. ONE (1) #18/2 SPEAKER CABLE TO BE RUN BETWEEN DATA AND AV RACKS FOR PAGING BY VENDOR #13.

R. IF APPLICABLE, ONE (1) 6-STRANDED MULTIMODE FIBER AND ONE (1) 25-PAIR CABLE TO BE RUN BETWEEN MDF AND IDF BY VENDOR #13. CABLES TO BE TERMINATED ON A 66 BLOCK OR VOICE PATCH PANEL.

S. ONE (1) 25-PAIR CABLE TO BE RUN BETWEEN MDF AND DMARK ON TELEPHONE BACKBOARD BY VENDOR #13.

T. 4G ANTENNAE CABLE TO BE ROUTED TO ANTENNAE INSTALLED ON ROOF. MOUNT ANTENNAE ON CONDUIT. CABLE TO BE ROUTED THROUGH RAIN HEAD AT TOP OF CONDUIT TO DATA RACK IN AV/DATA ROOM. EQUIPMENT SUPPLIED BY NEW STORE SUPPORT.

U. PROVIDE 3/4" CONDUIT BETWEEN TRAFFIC COUNTER LOCATIONS AT ENTRANCE AND EXIT DOORS.

V. ALL WIRING SHALL BE ROUTED OVERHEAD IN JOIST SPACE UNLESS NOTED OTHERWISE ON PLANS TO BE ROUTED BELOW GRADE.

CODED NOTES: ⬡

1. ALL ELECTRICAL DEVICES TO BE BLACK WITH BLACK COVER PLATES.
2. (1) 3"C TO SALES FLOOR TURNED DOWN 12'-0" AFF, CENTERED ON DOOR, AT IDF. LABEL CONDUIT DATA.
3. 3/4"C FROM J-BOX BELOW COUNTER IN OFFICE TO SECURITY BACKBOARD.
4. TIME CLOCK REFER TO ELECTRICAL DETAIL 4/E3.0 FOR REQUIREMENTS.
5. PROVIDE 1 DATA AT PROJECTOR TO BE EXTENDED FROM ASSOCIATED PC AT CABINET. REFERENCE DETAIL 4/E3.0A FOR PENDANT MOUNTED PROJECTOR.
6. ROUTE 3/4"C IN MANAGERS OFFICE TO ABOVE ACCESSIBLE CEILING IN CORRIDOR.
7. MOUNT TRAFSYS CAMERAS UNDER SOFFIT OR ON "L" BRACKETS ABOVE VESTIBULE DOORS.
8. PROVIDE BACKBOARD FOR MDF. REFER TO ELECTRICAL DETAIL 4/E3.0.
9. PROVIDE (2) 4" SQUARE J-BOXES.
(1) J-BOX REQUIRED FOR HDMI TO CAT6 CONVERTER.
(1) J-BOX REQUIRED FOR IDF DATA CABLING & DATA CABLE TO THE PROJECTOR. SEE DETAIL 4/E3.0A.
10. ELECTRICAL CONTRACTOR TO CONFIRM LOCATIONS OF ALL IN SLAB ELECTRICAL/DATA WITH DICK'S SPORTING GOODS' PROJECT MANAGER 1 WEEK PRIOR TO ROUGH-IN.
11. ELECTRICAL CONTRACTOR TO CONNECT CONDUITS SHOWN ON DETAIL 2/E3.0 FOR LOW VOLTAGE WIRING TO JUNCTION BOX FOR CONNECTION OF CASHWRAP LOW VOLTAGE WIRING TO IDF IN GOLF STOCKROOM.
12. VERIFY QUANTITY AND LOCATION OF INDYME WIRELESS CALL BOXES WITH GGXY PROJECT MANAGER AND VENDOR #5. COORDINATE INDYME ANTENNAE LOCATION WITH VENDOR #13 AND VENDOR #5. PROVIDE CABLE TO INDYME SERVER AT AV/MDF ROOM.
13. JUNCTION BOX FOR INDYME ANTENNA IN CEILING SPACE. COORDINATE EXACT LOCATION WITH VENDOR. CABLE TO INDYME SERVER IN AV/MDF ROOM BY INDYME EQUIPMENT INSTALLER.
14. ROUTE CONDUIT(S) DOWN INDICATED WALL OR COLUMN THEN ROUTE BELOW GRADE TO ASSOCIATED FLOOR BOX OR CONDUIT STUB-UP LOCATION.
15. (1) HDMI CABLE RUN BETWEEN TV AND SIMULATOR LOCATION (PROVIDE CAT 6 CABLE IF USING HDMI TO CAT6 CONVERTORS) BY VENDOR #13. CAT6 CABLE NOT NEEDED IF USING HDMI CABLE.
16. (1) 2"C TO SALES FLOOR TURNED DOWN 12'-0" AFF, CENTERED ON DOOR, AT IDF. LABEL (1) CONDUIT AS "CCTV".
17. PROVIDE BACKBOARD AT 7'-6" AFF, CENTERED OVER DOOR, FOR IDF 8" FROM ADJACENT WALL UNDER DIVISION 16; ALL CONDUITS SHALL BE CONCEALED IN WALL. PROVIDE #6 CU. GND. CONNECTION AT BACKBOARD. REFER TO ELEVATION 3/E7.0. COORDINATE LOCATION WITH VENDOR #13.
18. (2) 1-1/2"C TO SALES FLOOR TURNED DOWN 12'-0" AFF, CENTERED ON DOOR, AT IDF. LABEL (1) CONDUIT AS "FIBER OPTIC" AND (1) SPARE. PROVIDE LONG RADIUS 90 DEG FOR FIBER OPTIC CABLE

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WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
TELEPHONE/DATA SYSTEM PLAN

SHEET NUMBER:
E7.0

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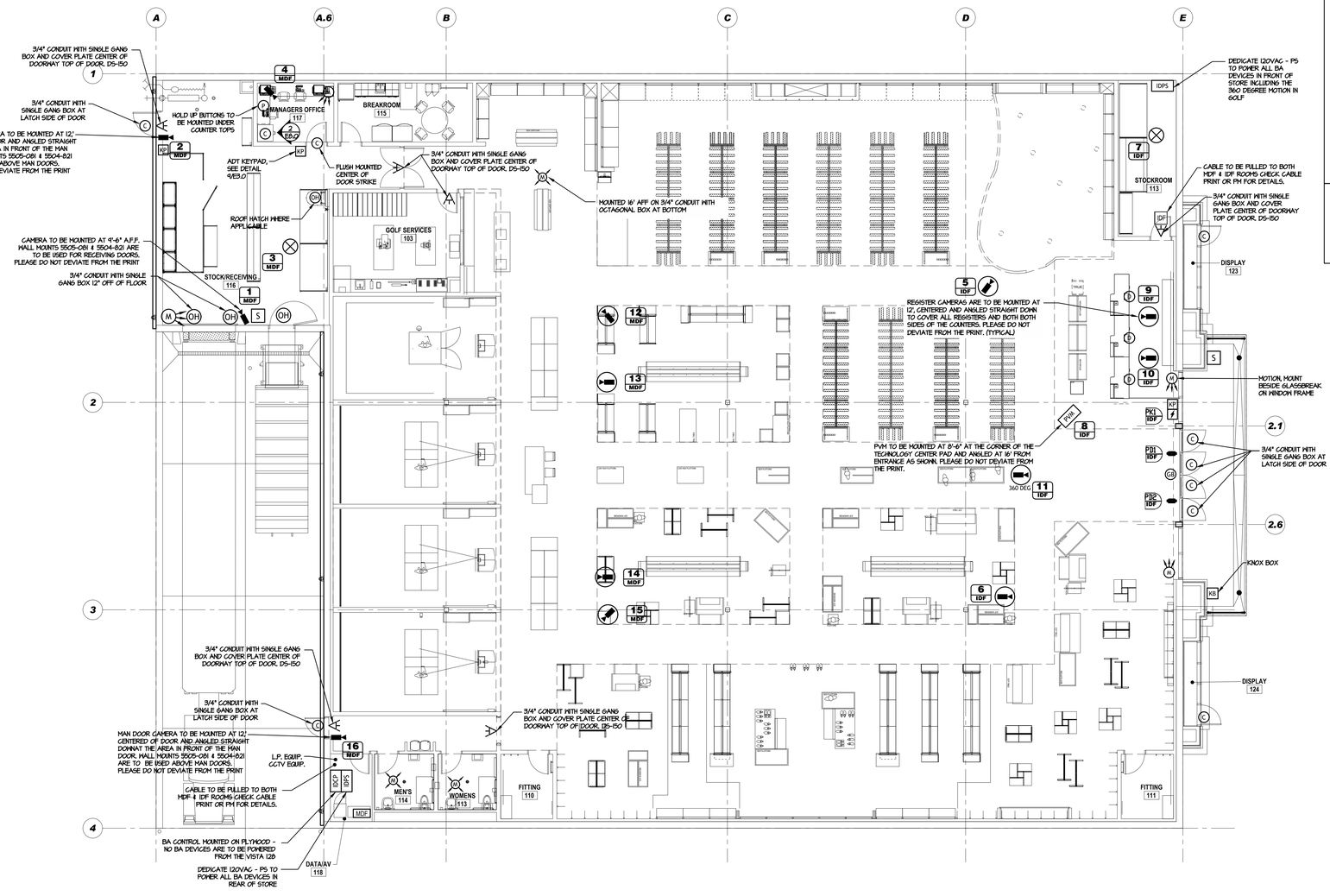


1 SECURITY PLAN

SCALE 1/8" = 1'-0"

GENERAL NOTES:

1. ALL EXTERIOR EMERGENCY EGRESS DOORS TO HAVE DAYTIME ANNUNCIATOR AND SOUNDER INCLUDING RECEIVING AREA DOORS.
2. WALL MOUNT PASSIVE INFRARED - @ 8'-6" AFF
3. ENSURE THAT ALL EXTERIOR DOORS ARE COVERED BY MOTION DETECTORS.
4. THE FOLLOWING GENERAL GUIDELINES SHALL BE FOLLOWED FOR WIRING INSTALLATION.
   a. WIRING SHALL BE APPROPRIATELY COLOR-CODED WITH PERMANENT WIRE MARKERS. COPPER CONDUCTORS SHALL BE USED.
   b. ALL CABLES, WHERE SUBJECT TO MECHANICAL DAMAGE, WIRING SHALL BE ENCLOSED IN METAL CONDUIT OR SURFACE METALLIC RACEWAY. (CHECK LOCAL CODES AND/OR AHJ AUTHORITIES FOR LOCAL REQUIREMENTS.)
   c. WIRE SIZE FOR FIRE INITIATING DEVICE CIRCUITS SHALL NOT BE SMALLER THAN 16 AWG SOLID, 14 AWG FOR SIGNALING LINE CIRCUITS (SLC).
   d. IDC OR SLC WIRES SHALL NOT BE ENCLOSED IN CONDUIT OR RACEWAYS CONTAINING "AC" WIRES. INSIDE CONTROL PANEL, "AC" WIRES MUST BE APPROPRIATELY SEPARATED.
   e. WHERE EMI MAY INTERFERE WITH THE PROPER OPERATION OF THE INITIATING CIRCUITS, TWISTED/SHIELDED CABLE SHALL BE USED.
5. SEE E6.0 FOR SPECIAL SYSTEMS BACKBOARD DIAGRAM
6. FINAL LOCATION FOR CAMERAS SHALL BE VERIFIED BY LOSS PREVENTION DISTRICT MANAGER. ANDREA GUTHRIE (724) 273-3050
7. E.C. SHALL PROVIDE 3/4"C (WITH PULL WIRE) FROM EACH SECURITY DEVICE TO ABOVE ACCESSIBLE CEILING. IF DEVICE IS LOCATED IN AN AREA WITHOUT CEILING, THIS E.C. SHALL STUB UP 3/4"C TO STRUCTURAL JOIST. ALL SECURITY WIRING SHALL BE PROVIDED AND INSTALLED BY SECURITY VENDOR #2. ALL WORK SHALL BE COORDINATED WITH SECURITY VENDOR PRIOR TO ROUGH-IN. TYPICAL THIS DWG.
8. SURFACE MOUNTING OF SECURITY SYSTEM WIRING IS PROHIBITED. ALL WIRING TO BE IN CONDUIT AND CONCEALED IN WALLS. EXPOSED WIRING MAY BE RUN ABOVE CEILINGS AND IN JOIST SPACE.
9. CELLULAR BACKUP REQUIRED FOR ALL SECURITY SYSTEMS.
10. E.C. SHALL INSTALL T8471I HONEYWELL INTERNET COMMUNICATOR AT BACP. SEE DETAIL 5/E6.0.

NOTE:

E.C. SHALL PROVIDE 3/4" CONDUIT (WITH PULL WIRE) FROM EACH SECURITY DEVICE TO ABOVE ACCESSIBLE CEILING. IF DEVICE IS LOCATED IN AN AREA WITHOUT CEILING, THE E.C. SHALL STUB UP 3/4" CONDUIT TO STRUCTURAL JOIST. ALL SECURITY WIRING SHALL BE PROVIDED AND INSTALLED BY SECURITY VENDOR. ALL WORK SHALL BE COORDINATED WITH SECURITY VENDOR PRIOR TO ROUGH-IN. TYPICAL THIS DRAWING.

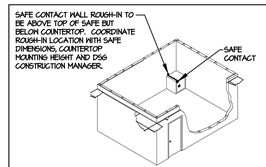
BA LEGEND

QTY	SYMB	DESCRIPTION
1	IDCP	INTRUSION DETECTION CONTROL PANEL
2	IDPS	INTRUSION DETECTION POWER SUPPLY
-		CELLULAR DIALER
-		POINT OF CONNECTION
-		PRINTER
-		GATEWAY
1	M	MOTION DETECTOR - WIDE RANGE - LOADING DOCK
9	M	MOTION DETECTOR - WIDE RANGE - ALL AREAS (EXCEPT LD)
3	M	MOTION DETECTOR - 360 DEG CEILING MOUNTED
5	C	DOOR CONTACT - ALL DOORS (EXCEPT MAIN ENTRANCE)
4	C	DOOR CONTACT - MAIN ENTRANCE
1	C	DOOR CONTACT - SAFE
4	OH	OVERHEAD DOOR CONTACT / ROOF HATCH
-	T	PHOTOELECTRIC BEAM - TRANSMITTER
-	R	PHOTOELECTRIC BEAM - RECEIVER
6		CURTAIN MOTION
-		DOOR MONITOR ALARM - KEYSWITCH
-	S	SPEAKER
-		DOOR HORN
2	S	SIREN/SOUNDER/STROBE
-		STROBE
-		ROTATING BEACON
1	P	PANIC BUTTON
-	P	PANIC LIGHT
1	GB	GLASSBREAK
-	W	WATER SENSOR
-	TS	TAMPER SWITCH
-	T	HI/LO TEMPERATURE SENSOR
-	AP	HI/LO AIR PRESSURE SUPERVISION
-	KS	KEYSWITCH
3	KP	KEYPAD - ALPHANUMERIC
-	DTA	DAYTIME ANNUNCIATOR
-	ZEM	ZONE EXPANSION MODULE
1	KB	KNOX BOX

NOTE:
VENDOR #2 TO COORDINATE ALL DEVICE LOCATIONS PRIOR TO ELECTRICAL CONTRACTOR INSTALLING CONDUIT.

2 CASH ROOM SAFE ELEVATION

SCALE N.T.S.



THIS DIAGRAM IS FOR REFERENCE ONLY. ACTUAL SAFE LOCATION OF SAFE AND CASH ROOM LAYOUT WILL VARY FOR EACH SITE. PLEASE REFER TO SITE SPECIFIC DRAWINGS FOR ACTUAL CASH ROOM LAYOUT.

BA INSTALLATION NOTE:

"TIS" WILL NOT CONNECT TO NOVAR/EMS. LIGHT WILL TURN ON ANY BURGLAR ALARM. SEE TIS WORK PLAN FOR CONNECTION DETAILS.

CCTV INSTALLATION NOTES:

- CONTACT PROJECT MANAGER FRANCESCA CASLAR AT 954-242-2231 WITH ANY INSTALL ISSUES.
- DICK'S DLPM MUST BE PRESENT TO VERIFY EQT LOCATIONS PRIOR TO INSTALLATION OF CAMERAS (CAN BE DONE AFTER CABLE PULL).
- ALL PVMS IN DSG AND F45 STORES ARE TO BE HUNG AT 8'6" AFF AND IN GGXY STORES ARE TO BE HUNG AT 12' AFF.
- PENDANT, PIPE AND MOUNTS FOR ALL PVMS TO BE PAINTED FLAT BLACK.
- ALL PENDANT MOUNTED CAMERAS ARE TO BE HUNG AT 12' AFF
- PENDANT, PIPE AND MOUNTS FOR PENDANT MOUNTED CAMERAS WILL BE PAINTED THE COLOR OF THE CEILING - CHECK WITH THE SITE SUPER OR TYCO PM TO CONFIRM COLOR
- ALLOW 25' OF SLACK AT EACH CAMERA.
- WALL MOUNTED MAN DOOR/EXIT CAMERAS TO BE INSTALLED AT CENTER OF DOOR AND ANGLED TO VIEW STRAIGHT DOWN IN FRONT OF DOOR.
- ALL REMOTE ALARMS FOR SECURITY PEDESTALS MUST BE HUNG BETWEEN 8' - 12' AFF, GC TO PROVIDE CONDUIT AND OUTLET.
- PREWIRE DOMES TO HANDLE FUTURE DOMES.

CCTV LEGEND

QTY	SYMB	DESCRIPTION
4		FIXED CAMERA
8		CAMERA - PENDANT MOUNTED
1	360 DEG	CAMERA - 360 DEG
1	PVM	PUBLIC VIEW MONITOR W/ BUILT-IN CAMERA
-	PVM (NO CAMERA)	PUBLIC VIEW MONITOR WITH NO BUILT-IN CAMERA
2		DEAD DROP
3	D	DEACTIVATOR (UNDER-COUNTER MOUNT)
-	MD	COMPACT DEACTIVATOR W/ VERTICAL MOUNT
0		EAS PEDESTAL - QUAD SYNERGY
1		EAS PEDESTAL - DUAL SYNERGY
1		PEDESTAL POWER PACK

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GOLF GALAXY

GATLIN PLAZA
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SECURITY PLAN

SHEET NUMBER:
E8.0

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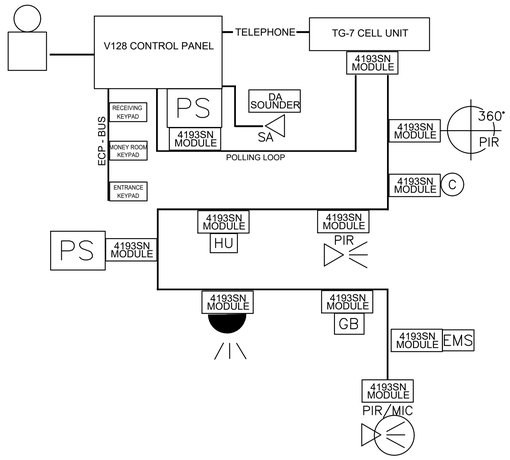

1 TYPICAL FLOOR DIAGRAM

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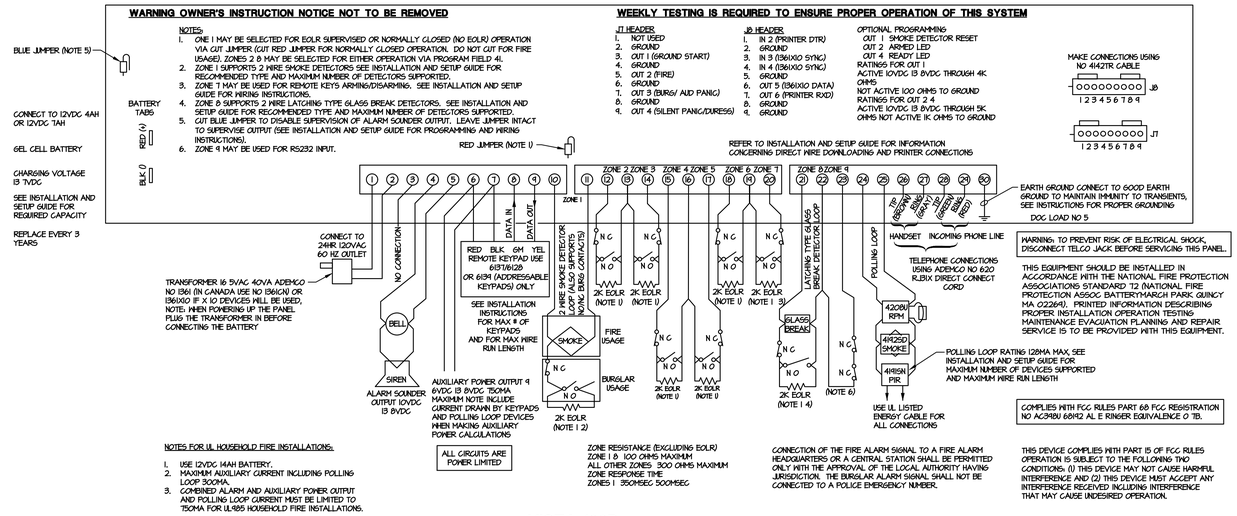

2 VISTA-128P SUMMARY OF CONNECTIONS

SCALE: N.T.S.

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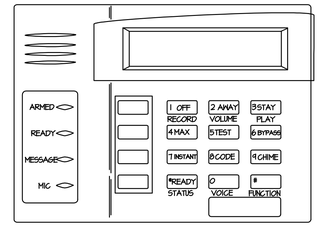

3 KEYPAD 6160V-ADT

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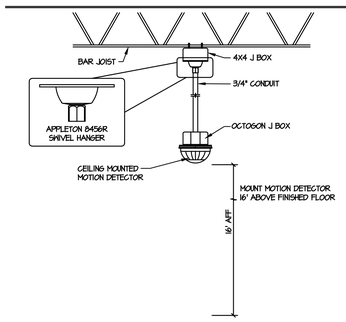
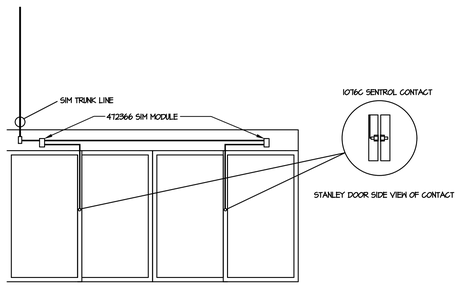


4 MOTION DETECTOR MOUNTING DETAIL

SCALE: N.T.S.



5 VESTIBULE DOOR CONTACT INSTALLATION

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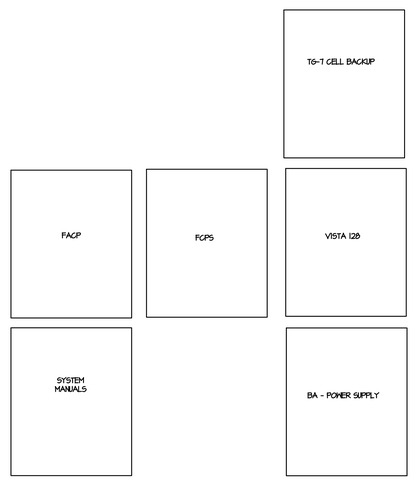
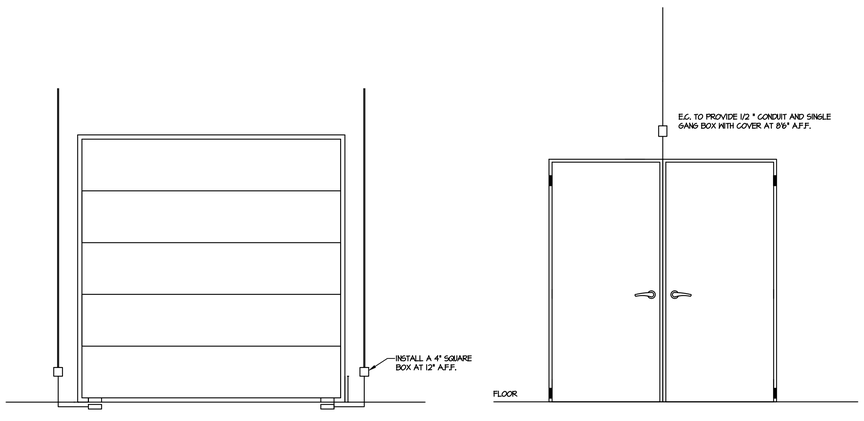


6 CONTROL BOARD DIAGRAM

SCALE: N.T.S.



7 OVERHEAD/DOOR CONTACT DETAILS

SCALE: N.T.S.

BA CONDUIT REQUIREMENTS - INSTALLED BY EC:

CONDUIT STEMS WITH 4" OCTAGON BOX INSTALLED 16' AFF FOR INSTALLATION OF CEILING MOUNT MOTION DETECTORS.

CONDUIT WITH SINGLE GANG BOX TO TOP OF EMERGENCY EXIT DOORS.
- LATCH SIDE ON SINGLE DOORS
- CENTER ON DOUBLE DOORS

SINGLE GANG BOX AT CENTER OF ALL EMERGENCY EXIT DOORS, TOP OF DOOR FRAME, CONNECTION TO CURTAIN MOTIONS.

CONDUIT WITH SINGLE GANG BOX INSTALLED TO BOTTOM OF ALL OVERHEAD DOORS ON LOADING DOCK (BOTH SIDES, SEE DETAIL.

CONDUIT WITH SINGLE GANG BOX TO BOTTOM OF MALL GATES (BOTH SIDES) WHEN APPLICABLE.

CONDUIT WITH SINGLE GANG BOX INSTALLED ON TOP OF TRASH COMPACTOR DOOR (LATCH SIDE)

CONDUIT TO KNOX BOX FOR POINT OF CONNECTION, KNOX BOX WITH TAMPER PROVIDED BY ADT.

CONDUIT FROM BOTTOM OF BAR JOIST AT VESTIBULE AREA TO FLOOR TRAY FOR CUSTOMER SERVICE AREA FOR INSTALLATION OF HOLD-UP BUTTON.

OTHER CONDUIT AS REQUIRED BY ADT, AHJ AND LOCAL CODE, ALL CONDUIT PROVIDED BY EC.

INSTALLATION NOTES (BA):

CONTROL UNIT (VISTA 128)	MOUNT IN THE ELECTRICAL ROOM IN BACK OF THE STORE. NOTE: SEE CONTROL BOARD DIAGRAM FOR EXACT LOCATION. BA CONTROL COMMUNICATES ON SINGLE LINE DIALER.
POWER SUPPLY	EXTRA POWER SUPPLY AND BATTERIES, SHOULD BE INSTALLED TO POWER MOTIONS WHEN NEEDED. MOUNT POWER SUPPLY BESIDE THE CONTROL PANEL. NOTE: SEE CONTROL BOARD DIAGRAM FOR EXACT LOCATION.
CELL BACKUP UNIT (TG-7)	MOUNT BESIDE CONTROL UNIT, USE STANDARD ANTENNA. NOTE: SEE CONTROL BOARD DIAGRAM FOR EXACT LOCATION
KEYPADS (3)	MOUNT ONE DIRECTLY OUTSIDE THE MANAGER'S OFFICE, 56" ABOVE THE FINISHED FLOOR. MOUNT ONE BY THE FRONT DOOR, 56" ABOVE THE FINISHED FLOOR. MOUNT ONE BY THE RECEIVING MAN DOOR, 56" ABOVE THE FINISHED FLOOR.
DOOR CONTACTS	CONTACT ALL EXTERIOR DOORS. CONTACT THE SECURE STOCK ROOM DOOR (NEAR THE GUN RACK). CONTACT THE CASH OFFICE DOOR. CONTACT OVERHEAD LOADING DOCK DOORS. CONTACT TRASH COMPACTOR DOOR. CONTACT THE ROOF HATCH. MOUNT SAFE CONTACT ON THE SAFE IN CASH ROOM.
MOTION DETECTORS	CEILING MOUNTED MOTION DETECTOR IS TO BE MOUNTED 16' ABOVE FINISHED FLOOR IN FRONT OF THE LODGE. MOUNT WALL MOUNTED MOTION DETECTORS AT FRONT DOORS COVERING GLASS AREAS. MOUNT WALL MOUNTED MOTION DETECTOR IN STOCK ROOM COVERING ISLE. MOUNT WALL MOUNTED (DUAL TECH) MOTION DETECTOR TO BACKUP TRASH COMPACTOR DOOR. MOUNT WALL MOUNTED MOTION DETECTOR IN THE SECURE STOCK ROOM, NEAR GUN RACK. MOUNT WALL MOUNTED MOTION DETECTOR IN THE CASH OFFICE.
GLASS BREAK DETECTORS	MOUNT TO COVER FRONT GLASS AREAS.
HOLD UP BUTTONS	MOUNT HOLD UP BUTTON AT CUSTOMER SERVICE AREA AT THE FRONT BY THE CASH REGISTERS. MOUNT HOLD UP BUTTON IN THE CASH OFFICE & COUNT ROOM.
SOUNDERS	MOUNT ONE SOUNDER (RX-7) IN RECEIVING AREA, RECEIVING AREA IS DAYTIME ANNUNCIATED. MOUNT ONE SOUNDER/STROBE COMBO (AS-SX151LC) OUTSIDE IN THE FRONT OF THE STORE,CONNECTED TO LODGE STOCK ROOM MOTION AND LODGE FLOOR MOTION DETECTORS, LODGE DOOR CONTACT.
KNOX BOX	CONNECT KNOX BOX TAMPERS SWITCHES IN TO THE SECURITY ALARM.

PROGRAMMING NOTES (BA):

POINT TO LINK ALL DAYTIME ANNUNCIATED DOOR TO SOUNDER.

POINT TO LINK GROUP 5 "GUN AREA" TO OUTDOOR STROBE.

OUTSIDE SOUNDER SOUNDS ON ANY BA.

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SECURITY SYSTEM DETAILS

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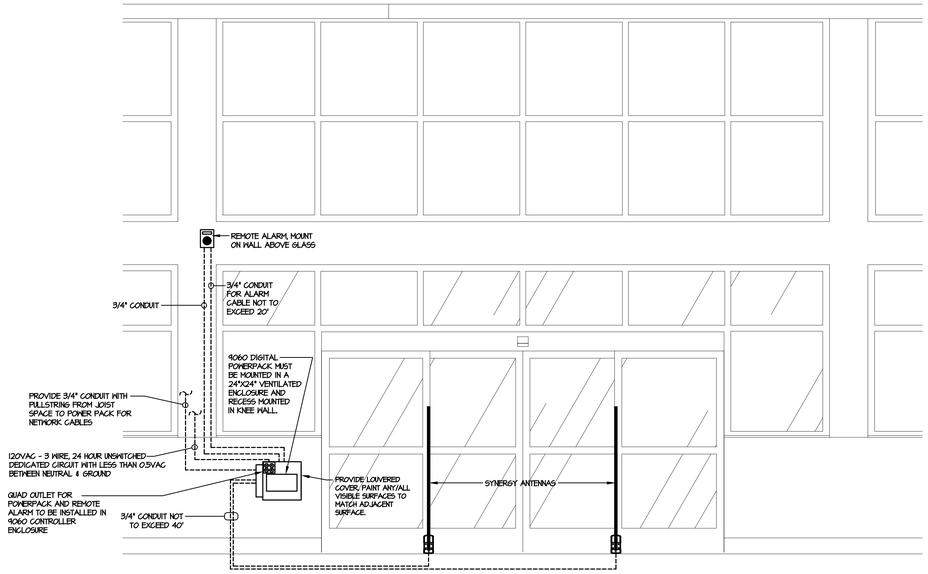

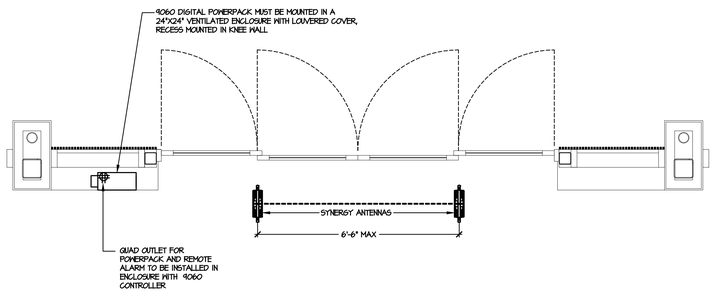

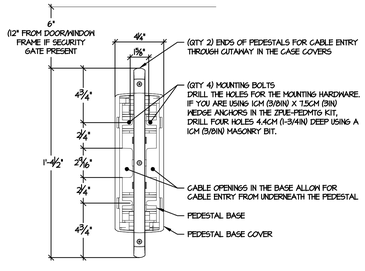

SYNERGY PEDESTAL NOTES:

A. WHENEVER POSSIBLE, KEEP THE PEDESTALS AT LEAST 2.4M (8FT) AWAY FROM NOISE SOURCES, SUCH AS COMPUTER MONITORS, TVS, SWITCHING POWER SUPPLIES, & NEON DISPLAYS.

B. THE MINIMUM DISTANCE BETWEEN PEDESTALS IS 1.2M (4FT). THE MAXIMUM DISTANCE BETWEEN PEDESTALS IS 6'-6" FOR PEDESTALS AT THE VESTIBULE ENTRANCE.

C. THE MAXIMUM ALLOWABLE TX/RX CABLE LENGTH FROM A PEDESTAL TO THE CONTROLLER IS 12.2M (40FT). THE MINIMUM ALLOWABLE TX/RX CABLE LENGTH FROM A PEDESTAL TO THE CONTROLLER IS 6.1M (20FT). NEVER TRIM A TX/RX CABLE SHORTER THAN 6.1M (20FT).

D. PEDESTAL CABLES ARE RATED FOR DIREGT BURIAL WITHOUT CONDUIT. THEY HAVE BEEN INVESTIGATED & FOUND SUITABLE FOR DIRECT BURIAL IN MORTAR & CONCRETE. HOWEVER, STATE & LOCAL CODES MAY REQUIRE CONDUIT. IN ADDITION, SOME CODES REQUIRE THE CONDUIT TO BE STUBBED A SPECIFIC DISTANCE ABOVE THE FLOOR.

AMS-9060 CONTROLLER NOTES:

A. 9060 CONTROLLER MUST BE IN 24"X24" VENTILATED AREA

B. RECESS WALL MOUNTING, MOUNT IN 24"X24" RECESSED ENCLOSURE WITH LOUVERED COVER. PAINT ANY/ALL VISIBLE SURFACES TO MATCH ADJACENT SURFACE.

C. STRUCTURE AND MOUNTING HARDWARE MUST SUPPORT 24.2KG (64.6 LBS) OR FOUR TIMES THE WEIGHT OF THE CONTROLLER ASSEMBLY.

D. TO BE MOUNTED NO HIGHER THAN 12FT A.F.F. PER DSG

E. ELECTRICAL CONTRACTOR TO INSTALL OUTLET WITHIN 3FT OF 9060 CONTROLLER OR HARDWIRE TO POWERPACK. 120VAC, 20 AMP, 3-WIRE WITH LESS THAN 3V BETWEEN NEUTRAL AND GROUND, (UNSWITCHED) DEDICATED CIRCUIT.

F. COORDINATE LOCATION OF 9060 CONTROLLER / POWERPACK ENCLOSURE WITH VENDOR #14, ARCHITECT AND DSG DESIGN TEAM.

THIS DETAIL IS FOR REFERENCE ONLY. THE CONTRACTOR IS TO MODIFY AS REQUIRED TO SUIT SITE CONDITIONS. ALL WORK SHALL BE COORDINATED WITH VENDOR #14 PRIOR TO ROUGH-IN. ALL CUSTOMER ENTRIES (EXTERIOR VESTIBULES, MALL ENTRIES, ETC.) INTO/OUT OF DIGK'S SPACE SHALL BE PROVIDED WITH VENDOR SECURITY SYSTEM.

1 ***SYNERGY PEDESTAL DETAILS & NOTES (NO VESTIBULE)***
SCALE N.T.S.

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GOLF GALAXY

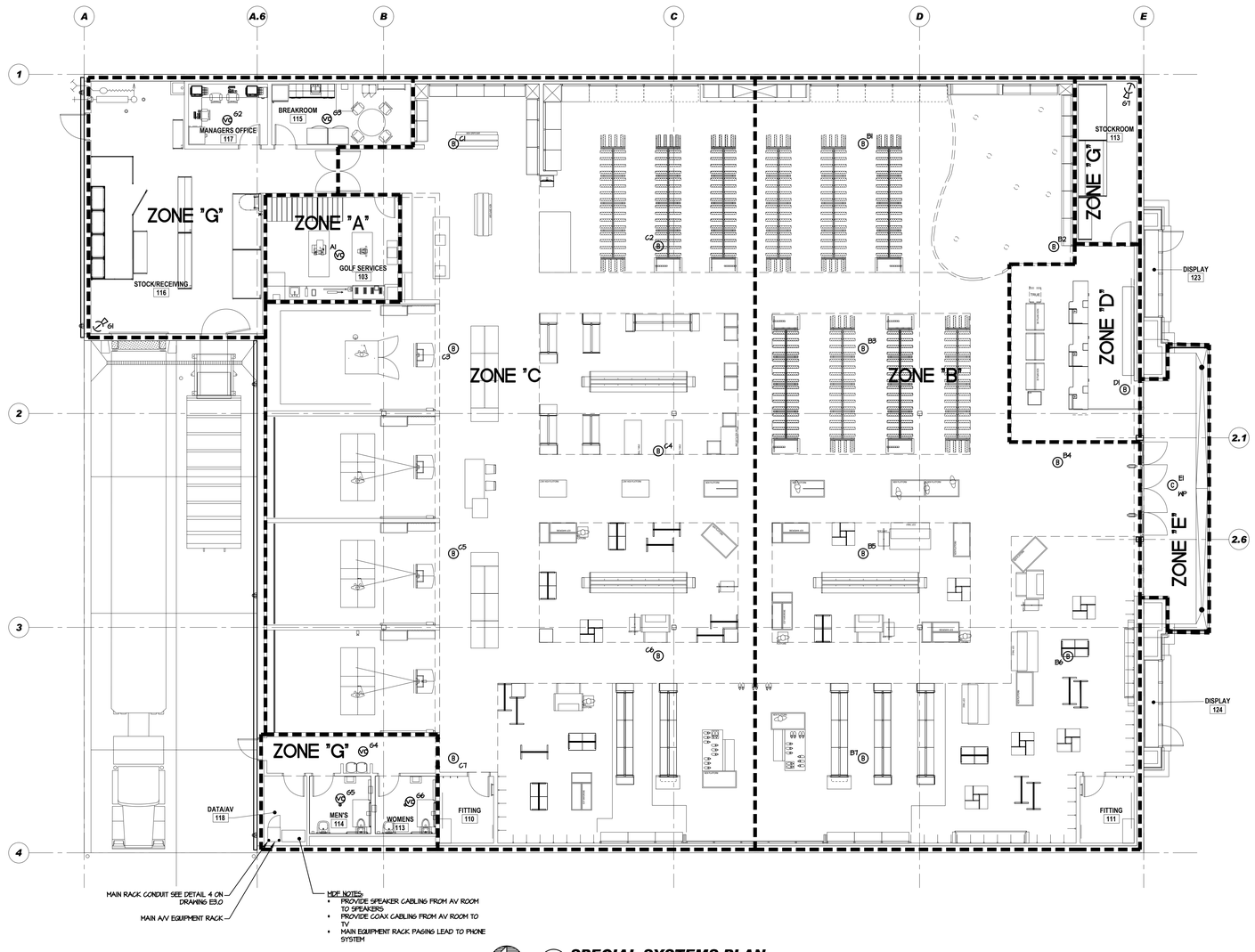
GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
SECURITY SYSTEM DETAILS

SHEET NUMBER:
E9.1

Mar 25, 2021 - 15:11:34 DWG Name: C:\Jobs\2021\Fox\GSX\FL Port St Lucie\Drawings\01-Bid Permit\12933_E\12933_E01.dwg Updated By: mstarcz



MDF NOTES:
- PROVIDE SPEAKER CABLING FROM AV ROOM TO SPEAKERS
- PROVIDE COAX CABLING FROM AV ROOM TO TV
- MAIN EQUIPMENT RACK PASSES LEAD TO PHONE SYSTEM

1 SPECIAL SYSTEMS PLAN
SCALE 1/8" = 1'-0"

GENERAL NOTES:

A. SEE DRAWING E11.0 FOR DETAILS ON SPECIAL SYSTEMS.

B. ALL T.V. EQUIPMENT, MONITORS, DVD PLAYER'S, ETC., SHALL BE FURNISHED AND INSTALLED IN GENERAL CONTRACT BY DICK'S NATIONAL A/V ACCOUNT VENDOR. ELECTRICAL SUBCONTRACTOR SHALL VERIFY ALL REQUIREMENTS WITH A/V ACCOUNT VENDOR.

C. ALL SPEAKER AND COAX FEEDS ALL GO TO A/V ROOM. EACH ZONE TO HAVE INDEPENDENT FEED BACK TO A/V ROOM WITH CABLING LABELED WITH ZONE LETTER.

D. PROVIDE 1/2" CONDUIT RACEWAY, CENTERED ON DOOR, TO EXTERIOR FOR SPEAKERS IN ZONE 'E'.

E. NO DIAGONAL WIRE RUNS IN OPEN AREAS; NO FREE HANGING WIRE.

ZONES:

A = GOLF SERVICES
B = STORE CENTER - RIGHT MUSIC
C = STORE CENTER - LEFT MUSIC
D = CASH WRAP TV
E = EXTERIOR ENTRY MUSIC
F = NOT USED
G = OFFICE/STOCKROOM MUSIC

SPEAKER LEGEND

		TAP SETTING (WATTS)
1	SPEAKER # IN ZONE	N/A
F	ZONE (A THROUGH G)	N/A
C	CEILING MOUNT SPEAKER	4 WATTS
C HP	WEATHER PROOF CEILING MOUNT SPEAKER	4 WATTS
B	SPEAKER MOUNTED TO BOTTOM OF JOIST	5 WATTS
VC	VOLUME CONTROL SPEAKER, CEILING MOUNT	4 WATTS
	HORN SPEAKER	2 WATTS
SV	VOLUME CONTROL SWITCH	N/A

NOTE:
- VENDOR #13 MUST VERIFY ALL SPEAKER TAP SETTINGS & SPEAKER WIRING ZONES ARE CORRECT AND FUNCTIONALITY TESTED PRIOR TO VENDOR #5 TERMINATING THE SPEAKER ZONES TO THE AUDIO EQUIPMENT LOCATED IN THE AV EQUIPMENT RACK.

McHenry & Associates Incorporated
MC&A
Consulting Engineers est. 1960
25001 Emery Road, Suite #200
Warrensville Heights, Ohio 44128
Phone: 216-292-4696
Fax: 216-292-5874
Email: mail@mchenryassociates.com
Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
SPECIAL SYSTEMS PLAN

SHEET NUMBER:
E10.0

Mar 26, 2021 - 10:54:08 DWG Name: G:\Jobs\2020\Fox\X56\X*FL Port St Lucie\Drawings\01-Bid Permit\12833_E1\12833_E10.0.dwg Updated By: mazoraz

1 NOT USED

SCALE: N.T.S.

2 NOT USED

SCALE: N.T.S.

COAXIAL CABLE:

1. ALL COAXIAL CABLES MUST BE INSTALLED FREE OF ANY SPLICES, KINKS, SHARP BENDS, OR PINCHED IN ANY FORM.
2. ALL COAXIAL CABLES IN RACK LOCATIONS MUST HAVE 15' OF SERVICE LENGTH.
3. ALL COAXIAL CABLES IN RACK LOCATIONS MUST BE LABELED WITH CORRESPONDING CABLE LETTER/NUMBER.
4. ALL COAXIAL CABLES MUST BE INSTALLED IN WALLS AT RACK LOCATIONS OR IN APPROPRIATE FIXTURE.
5. IN OPEN CEILING LOCATIONS COAXIAL CABLES MUST BE INSTALLED IN PARALLEL OR PERPENDICULAR TO "RED IRON" OR STRUCTURE AND CONCEALED AS WELL AS POSSIBLE.
6. NO COAXIAL CABLES CAN BE INSTALLED PARALLEL, WITHIN ONE FOOT, OF ANY POWER CONDUIT.

PHONE/PAGE WIRE:

1. PHONE/PAGE CABLE MUST BE INSTALLED FREE OF ANY SPLICES, KINKS, SHARP BENDS, OR PINCHED IN ANY FORM.
2. PHONE/PAGE CABLE MUST BE INSTALLED PARALLEL TO "RED IRON" OR STRUCTURE, AND CONCEALED AS WELL AS POSSIBLE IN OPEN CEILING AREAS.
3. ALL PHONE/PAGE CABLE IN RACK LOCATION MUST HAVE 15' SERVICE LENGTH.
4. ALL PHONE/PAGE CABLE MUST BE INSTALLED IN WALLS AT RACK LOCATIONS.
5. ALL PHONE/PAGE CABLE MUST BE LABELED WITH CORRESPONDING CABLE LETTER/NUMBER.
6. NO PHONE/PAGE CABLE CAN BE INSTALLED PARALLEL, WITHIN ONE FOOT, OF ANY POWER CONDUIT.

SPEAKER CABLE:

1. ALL SPEAKER CABLES MUST BE INSTALLED FREE OF ANY KINKS, SHARP BENDS, OR PINCHED IN ANY FORM.
2. ALL SPEAKER CABLE MUST BE INSTALLED PARALLEL TO "RED IRON" OR STRUCTURE, AND CONCEALED AS WELL AS POSSIBLE IN OPEN CEILING AREAS.
3. ALL SPEAKER CABLES IN RACK LOCATIONS MUST HAVE 15' SERVICE LENGTH.
4. ALL SPEAKER CABLES MUST BE INSTALLED IN WALL OR CONDUIT AT RACK LOCATIONS.
5. ALL SPEAKER CABLES MUST BE LABELED WITH CORRESPONDING CABLE LETTER/NUMBER.
6. NO SPEAKER CABLE CAN BE INSTALLED PARALLEL, WITHIN ONE FOOT, OF ANY POWER CONDUIT.
7. AT ALL SPEAKER LOCATIONS A FOUR FOOT INSTALLATION LOOP MUST BE LEFT FROM THE HEIGHT AT WHICH THE SPEAKER IS TO BE INSTALLED.
8. AT THE END OF CABLE RUNS, ONLY TWO FEET OF CABLE MUST BE LEFT BELOW SPEAKER INSTALLATION HEIGHT.

ELECTRICAL NOTES:

1. PROVIDE INPUT TO SILENCE SOUND SYSTEM ON SIGNAL FROM FIRE ALARM SYSTEM. COORDINATE WITH FIRE ALARM CONTRACTOR.
2. ALL A/V EQUIPMENT REQUIRE STABLE CLEAN POWER. IN AREAS WHERE THE POWER IS NOT CLEAN, POWER CONDITIONING EQUIPMENT SHALL BE FURNISHED UNDER DIVISION 16.
3. POWER FOR THE EQUIPMENT RACK AND THE VIDEO WALL SYSTEMS SHALL EACH BE DEDICATED CIRCUITS. ALL RECEPTACLES SHALL BE PROVIDED AS NOTED ON DRAWING E-2. ALL POWER RECEPTACLES SHALL BE LOCATED SO AS TO BE ACCESSIBLE AFTER EQUIPMENT IS INSTALLED, WITHOUT MOVING EQUIPMENT.
4. AV VENDOR #5 SHALL FURNISH THE CEILING FLANGE FOR INSTALLATION BY THE E.C. THE E.C. SHALL PROVIDE A 1.5" ID BLACK STEEL PIPE CUT TO LENGTH, THREADED AND PAINTED BLACK, REFER TO ELECTRICAL DETAILS PLAN FOR DIMENSIONS AFF. A SINGLE GANG POWER RECEPTACLE SHALL BE FASTENED TO THE BACK OF ALL CEILING MOUNTS (BEHIND MONITOR).
5. VENDOR #13 TO PROVIDE AND INSTALL STORE PAGING SYSTEM EQUIPPED WITH A TAMB2 UNIT THAT WILL PROVIDE THE PAGING SIGNAL FOR THE AV EQUIPMENT RACK. A CAT6 CABLE TO BE RUN FROM THE TAMB2 UNIT WITH ENOUGH SLACK TO GO INSIDE THE AV EQUIPMENT RACK.
6. A SINGLE 1.5" CONDUIT SHALL BE STUBBED OUT ON THE ROOF WITHIN 6' OF THE SATELLITE DISH AND ANTENNA LOCATION. LOCATION SHALL PROVIDE CLEAR SOUTHERN EXPOSURE. THE CONDUIT SHALL BE TERMINATED DIRECTLY BEHIND THE MAIN EQUIPMENT RACK ADJACENT TO ITEM 1 BELOW THERE SHALL BE A WEATHERED HEAD SUPPLIED AND INSTALLED BY THE EC UNDER DIVISION 16.
7. A SINGLE 3" CONDUIT SHALL BE STUBBED OUT DIRECTLY BEHIND THE EQUIPMENT RACK. THE CONDUIT SHALL BE TERMINATED HORIZONTALLY AT THE STRUCTURAL STEEL. THERE SHALL BE A BUSHING ON EACH END OF THE CONDUIT.
8. VENDOR #13 SHALL FURNISH AND INSTALL ALL A/V CABLES. CABLES SHALL BE LEFT UN-TERMINATED AT RACK WITH 15' SERVICE LENGTH.
9. VENDOR #13 SHALL FURNISH, INSTALL AND TERMINATE ALL SPEAKERS.
10. GC TO ACCEPT DELIVERY AND MAKE APPROPRIATE SECURE STORAGE ARRANGEMENTS FOR ALL A/V EQUIPMENT.

3 WIRING METHOD NOTES

SCALE: N.T.S.

McHenry & Associates Incorporated

MC&A

Consulting Engineers est. 1960

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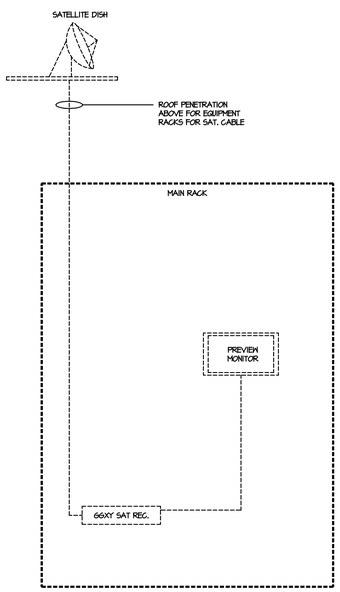
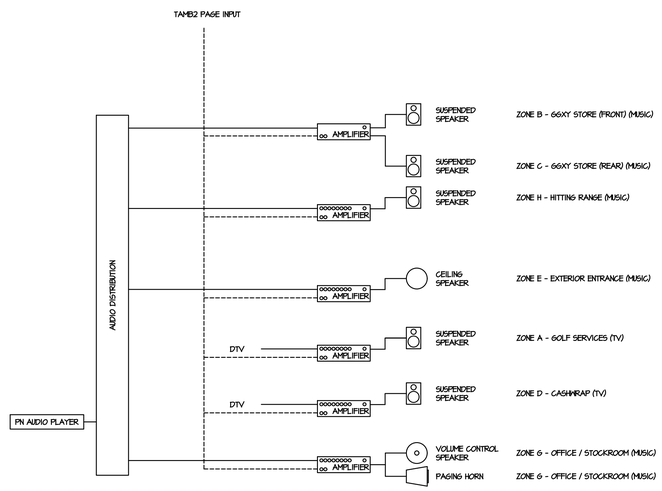
GOLF GALAXY

GALAXY



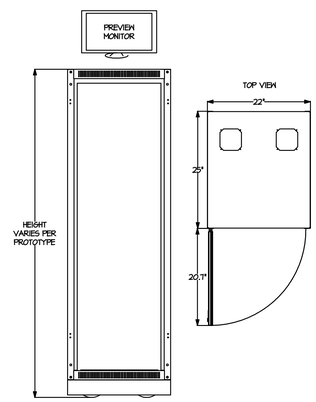
4 VIDEO SYSTEM DISTRIBUTION

SCALE: N.T.S.



5 AUDIO SYSTEM DISTRIBUTION

SCALE: N.T.S.



EQUIPMENT CABINET NOTES:

A. FLOOR STANDING EQUIPMENT RACKS WITH LOCKING FRONT DOORS AND CASTORS.

GOLF GALAXY

GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:		01168
NO.	ISSUE	DATE
	BID-PERMIT	03-26-21

DRAWING:
SPECIAL SYSTEMS DIAGRAMS & NOTES

SHEET NUMBER:
E11.0

Mar 25, 2021 - 19:44:45 DWG Name: G:\Jobs\2020\Fox\66XY\FL Port St. Lucie\Drawings\01-Bid Permit\126933_EV126933_E11.0.dwg Updated By: mazoraz

FIRE ALARM MATRIX

	ACTUATES FLASHING CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES ALARM CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR	TRANSMITS ALARM SIGNAL TO APPROVED REMOTE SUPERVISING STATION	ACTUATES SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES SUPERVISORY CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR	TRANSMITS SUPERVISORY SIGNAL TO APPROVED REMOTE SUPERVISING STATION	ACTUATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES TROUBLE CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR	TRANSMITS TROUBLE SIGNAL TO APPROVED REMOTE SUPERVISING STATION	ACTUATES EXTERIOR NOTIFICATION APPLIANCE	SHUTS DOWN HVAC UNIT	RELEASE DELAYED EGRESS DOOR CIRCUIT
FIRE SPRINKLER SYSTEMS												
- WATERFLOW SWITCHES	●	●	●							●		●
- CONTROL VALVE TAMPER SWITCHES				●	●	●						
MANUAL PULL STATION												
- ADJACENT TO THE FACP	●	●	●									●
SMOKE DETECTION DEVICES												
- ABOVE FACP	●	●	●									●
- AIR HANDLING UNIT - SUPPLY SIDE				●	●	●					●	
LOSS OF PRIMARY POWER AT THE FACP							●	●	●			
ABNORMAL CIRCUIT (OPEN, GROUND FAULT, SHORT) OR DEVICE							●	●	●			

FIRE ALARM SYMBOL KEY

		QTY.
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL (FIRE-LITE ES-50X) (IN RED ENCLOSURE)	1
FAAN	FIRE ALARM LCD ANNUNCIATOR (FIRE-LITE ANN-80)	1
DOC	DOCUMENTATION CABINET (SPACE AGE ELECTRONIC FAD ACE-11)	1
AIM	ADDRESSABLE INPUT MODULE (FIRE-LITE MMF-300)	4
ARM	ADDRESSABLE RELAY MODULE (FIRE-LITE CRF-300)	7
ACTM	120 VAC TRANSIENT SUPPRESSION MODULE (DITEK DTK-120HW)	1
PSM	PHONE LINE SUPPRESSION MODULE (ELK-955 OR EQUAL)	1
F	ADDRESSABLE DUAL ACTION MANUAL PULL STATION (FIRELITE BG-12LX)	1
S	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR (FIRE-LITE SD365)	1
D S	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (D355PL) (S = SUPPLY SIDE)	6
RT	REMOTE TEST STATION / ANNUNCIATOR (SYSTEM SENSOR RTS151KEY)	6
FS	FLOW SWITCH (BY OTHERS)	1
TS	TAMPER SWITCH (BY OTHERS)	4
B	WALL MOUNTED RED EXTERIOR ELECTRIC BELL APPLIANCE (WEATHERPROOF) (POTTER PDC OR EQUAL)	1
——	FIRE ALARM CONDUCTORS (RED IN COLOR)	
J	JUNCTION BOX	
—W—	END OF LINE RESISTOR	

THE CONTRACTOR IS PERMITTED TO PROVIDE FIRELITE OR SILENTKNIGHT FIRE ALARM EQUIPMENT. INSTALLING CONTRACTOR SHALL PROVIDE ACCURATE EQUIPMENT IN THE SHOP DRAWING SUBMITTAL REFLECTIVE OF ACTUAL EQUIPMENT PROVIDED.

SCOPE OF WORK

1. A DEDICATED FUNCTION FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT THE PROTECTED PREMISES.
2. THE FIRE ALARM SYSTEM SHALL REPORT ALL ALARM, SUPERVISORY, AND TROUBLE SIGNAL TO A REMOTE SUPERVISING STATION.
3. THE FIRE ALARM SYSTEM SHALL CONSIST OF THE FOLLOWING:
   - ONE (1) EXTERIOR ELECTRIC BELL ABOVE THE FIRE DEPARTMENT CONNECTION
   - ONE (1) MANUAL PULL STATION ADJACENT TO THE FACP
   - ONE (1) SMOKE DETECTOR ABOVE THE FACP
   - DUCT DETECTORS IN THE SUPPLY SIDE OF THE RTU
   - REMOTE TEST STATIONS FOR EACH DUCT DETECTOR
   - SHUTDOWN OF THE RTU
   - FIRE ALARM ANNUNCIATOR ADJACENT TO THE FRONT ENTRANCE
   - POWER-LIMITED FIRE ALARM CABLING
   - MONITORING OF THE FIRE SPRINKLER CONTROL VALVES AND WATERFLOW SWITCHES

APPLICABLE CODES

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

2020 FLORIDA BUILDING CODE 7TH EDITION (BASED ON 2018 IBC)

2020 FLORIDA FIRE PREVENTION CODE 7TH EDITION (BASED ON 2018 NFPA 1 & NFPA 101)

2018 FLORIDA MECHANICAL CODE 7TH EDITION (BASED ON 2018 IMC)

2017 NATIONAL ELECTRICAL CODE

2016 EDITION NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE

CONFLICTS BETWEEN THE REFERENCE NFPA STANDARDS, FEDERAL OR STATE CODES, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF FIRE PROTECTION ENGINEER (CCI) FOR RESOLUTION.

PROJECT INFORMATION

PROJECT NAME:	GOLF GALAXY - PORT ST. LUCIE, FL
LOCATION:	GATLIN PLAZA SW GATLIN BLVD PORT ST. LUCIE, FL 34953
CONSTRUCTION TYPE:	II-B
SQUARE FOOTAGE:	15,034 SQ.FT. 1-STORY
FIRE PROTECTION:	SPRINKLERED BUILDING
BUILDING OCCUPANCY:	MIXED USE - MERCANTILE (SHOWROOM) S-1 (STOCKROOM AREA)
OCCUPANT LOAD:	240 PERSONS
SYSTEM TYPE:	DEDICATED FUNCTION FIRE ALARM SYSTEM

PERMITTED FIRE ALARM EQUIPMENT MANUFACTURERS

THE CONTRACTOR IS PERMITTED TO USE FIRELITE OR SILENTKNIGHT FIRE ALARM CONTROL UNITS AND ASSOCIATED EQUIPMENT. THE ENGINEERED SUBMITTAL HAS PROVIDED A COMPLETE DESIGN BASED ON THE USE OF FIRELITE EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROVED MANUFACTURER SUBSTITUTIONS IN THE INSTALLATION SHOP DRAWINGS.

FIRE ALARM GENERAL NOTES

1. THE FIRE ALARM SYSTEM SHALL OPERATE AS A STANDALONE LOW VOLTAGE SYSTEM AND SHALL BE AN INTELLIGENT ADDRESSABLE SUPERVISED SYSTEM. CIRCUITS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   - INITIATING DEVICE CIRCUITS - CLASS B
   - NOTIFICATION APPLIANCE CIRCUITS - CLASS B
   - SIGNALING LINE CIRCUITS - CLASS B
   - CIRCUITS FOR RELAY CON. OPERATION SHALL BE 24 VDC MAXIMUM WITH A SEPARATE OR INTEGRAL FIELD COLLAPSING DIODE.
2. THE FIRE ALARM CABINETS AND DOCUMENTATION CABINET SHALL HAVE A HINGED DOOR KEYED IN COMMON WITH ALL OTHER KEYED DEVICES THROUGHOUT THE SYSTEM.
3. COORDINATE INSTALLATION OF A GROUND ROD OR ACCEPTABLE BUILDING GROUND FOR PROPER GROUNDING OF THE FACP WITH THE ELECTRICAL CONTRACTOR.
4. UPON LOSS OF BUILDING POWER, THE ENTIRE SYSTEM SHALL TRANSFER TO SECONDARY POWER WITHIN TEN (10) SECONDS, AND WITHOUT LOSS OF SIGNALS. THE SYSTEM SHALL OPERATE UNDER SECONDARY POWER IN NORMAL OR TROUBLE CONDITIONS FOR TWENTY-FOUR (24) HOURS AND HAVE SUFFICIENT POWER TO SUPPORT COMPLETE ALARM CONDITION OPERATION FOR A SUBSEQUENT FIVE (5) MINUTES AT MAXIMUM CONNECTED LOAD.
5. PROVIDE MONITORING CONNECTIONS TO SPRINKLER WATERFLOW SWITCHES AND TAMPER SWITCHES (BY OTHERS). PROVIDE ALL CABLING TO SWITCHES. FINAL WIRING CONNECTIONS AT SWITCHES, AND SUPERVISION OF ALL WIRING CONNECTIONS. COORDINATE ALL CONNECTIONS WITH THE SPRINKLER CONTRACTOR.
6. ALL SIGNALING LINE CIRCUITS, INITIATING DEVICE CIRCUITS, AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE SUPERVISED IN ACCORDANCE WITH NFPA 72.
7. PROVIDE END OF LINE RESISTORS FOR ALL INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS PER MANUFACTURER SPECIFICATIONS.
8. PROVIDE A COMPUTER GENERATED PRINTED LABEL FOR EACH INITIATING DEVICE INDICATING THE SPECIFIC ADDRESS FOR THAT DEVICE. THE LABEL SHALL INCLUDE THE APPLIANCE AND DEVICE NUMBER. THE LABEL SHALL BE LOCATED ON THE BASE OF ALL DETECTORS.
9. WHERE POSSIBLE, PROVIDE FLUSH MOUNTING OF NOTIFICATION APPLIANCES. WHERE SURFACE-MOUNTED NOTIFICATION APPLIANCES ARE NECESSARY, PROVIDE DECORATIVE BACKBOX SKIRT COVERING THE APPLIANCE BACKBOX.
10. MANUALLY ACTIVATING THE "ALARM SILENCE" AT THE FACP SHALL DE-ENERGIZE BOTH THE AUDIBLE AND VISUAL NOTIFICATION AT THE PANEL AND ANNUNCIATOR. AN ADDITIONAL ALARM REPORTED TO THE FACP SUBSEQUENT TO ACTIVATING THE "ALARM SILENCE" SHALL RE-ENERGIZE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES AT THE FACP AND ANNUNCIATOR.
11. THE CEILING MOUNTED DEVICES AND APPLIANCES SHALL BE INSTALLED ALIGNED AESTHETICALLY WITH THE CEILING LIGHTING, SPRINKLERS, AND OTHER FIXTURES. COORDINATE INSTALLATION OF ALL CEILING MOUNTED FIRE ALARM DEVICES AND NOTIFICATION APPLIANCES WITH THE ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO INSTALLATION.
12. DEVICES AND APPLIANCE LOCATIONS AS SHOWN ON THE FIRE ALARM PLANS ARE NOT DIMENSIONED FOR EXACT INSTALLATION. COORDINATE EXACT PLACEMENT OF ALL DEVICES AND APPLIANCES WITH THE ARCHITECTURAL PLANS, APPLICABLE TRADES, AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
13. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES AND QUANTITIES OF OTHER TRADES' WORK.
14. SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL.
15. VERIFY ALL EQUIPMENT QUANTITIES, LOCATIONS, AND REQUIREMENTS. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL IMMEDIATELY BRING THEM TO THE ATTENTION OF THE FIRE PROTECTION ENGINEER (CCI) FOR RESOLUTION.
16. CONTRACTOR SHALL EXECUTE ALL WORK NECESSARY FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM PER APPLICABLE NATIONAL AND LOCAL CODES, AND AS REQUIRED BY THE AHJ AND BY THE CLIENT/OWNER OF THE FACILITY.

FIRESTOP NOTES

1. ALL THROUGH-PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE FIRE-STOPPED.
2. FIRE-RATED GYPSUM BOARD WALLS CONSTRUCTED AS DESCRIBED IN THE INDIVIDUAL U300, U400, OR V400 SERIES DESIGNS IN THE U.L. FIRE RESISTANCE DIRECTORY (GENERALLY DOUBLE THICKNESS WALLBOARD) SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS.
3. ALL REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOORS OR WALLS, AND ALL U.L. CLASSIFIED CONCRETE BLOCK WALLS SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS.

FIREPROOFING NOTES (WHERE REQUIRED)

1. INSTALL ALL HANGERS, CLAMPS, CONDUIT, AND BACK BOXES FOR THE FIRE ALARM SYSTEM PRIOR TO THE APPLICATION OF FIREPROOFING ON STRUCTURAL MEMBERS.
2. INSTALL ALL HANGERS, CLAMPS, AND BACK BOXES FOR THE FIRE ALARM SYSTEM ON THE EDGE OF ANY JOIST REQUIRING FIREPROOFING. BACK BOXES SHALL BE FASTENED TO THE FLANGE OF THE JOIST UTILIZING BEAM CLAMPS, AND SHALL NOT BE ATTACHED DIRECTLY TO THE JOIST.
3. ANY DAMAGE TO FIREPROOFING ON THE BUILDING STRUCTURE AS A RESULT OF THE FIRE ALARM SYSTEM INSTALLATION SHALL BE REPAIRED BY A QUALIFIED FIREPROOFING CONTRACTOR. ALL DAMAGE AND REPAIR OF FIREPROOFING SHALL BE REPORTED TO AND COORDINATED THROUGH THE OWNER'S REPRESENTATIVE. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIREPROOFING REPAIRS AT NO ADDITIONAL COST TO THE OWNER.
4. VERIFY THE LOCATIONS OF ALL FIREPROOFING, PRIOR TO THE INSTALLATION OF ANY FIRE ALARM CONDUIT AND BACKBOXES.

FIRE ALARM WIRING LEGEND

CONDUCTOR TYPE:

D = 18/4 TP
E = 18/2 TP
F = 14/2 TP
G = AS REQ'D BY MANF.
H = 18/2 WET LOCATION
J = 14/2 WET LOCATION

CIRCUIT DESIGNATION:

AN = ANNUNCIATOR KEYPAD CIRCUIT
AV = AUDIBLE/VISUAL NOTIFICATION CIRCUIT
DL = INITIATION DATA CIRCUIT
PW = LOW VOLTAGE POWER CIRCUIT
RC = RELAY CONTROL CIRCUIT
RT = REMOTE TEST STATION POWER
SU = SUPERVISORY CIRCUIT
ZN = INITIATION ZONE CIRCUIT

CONDUCTOR TYPE
CIRCUIT DESIGNATION
F(AV01)
CIRCUIT NUMBER

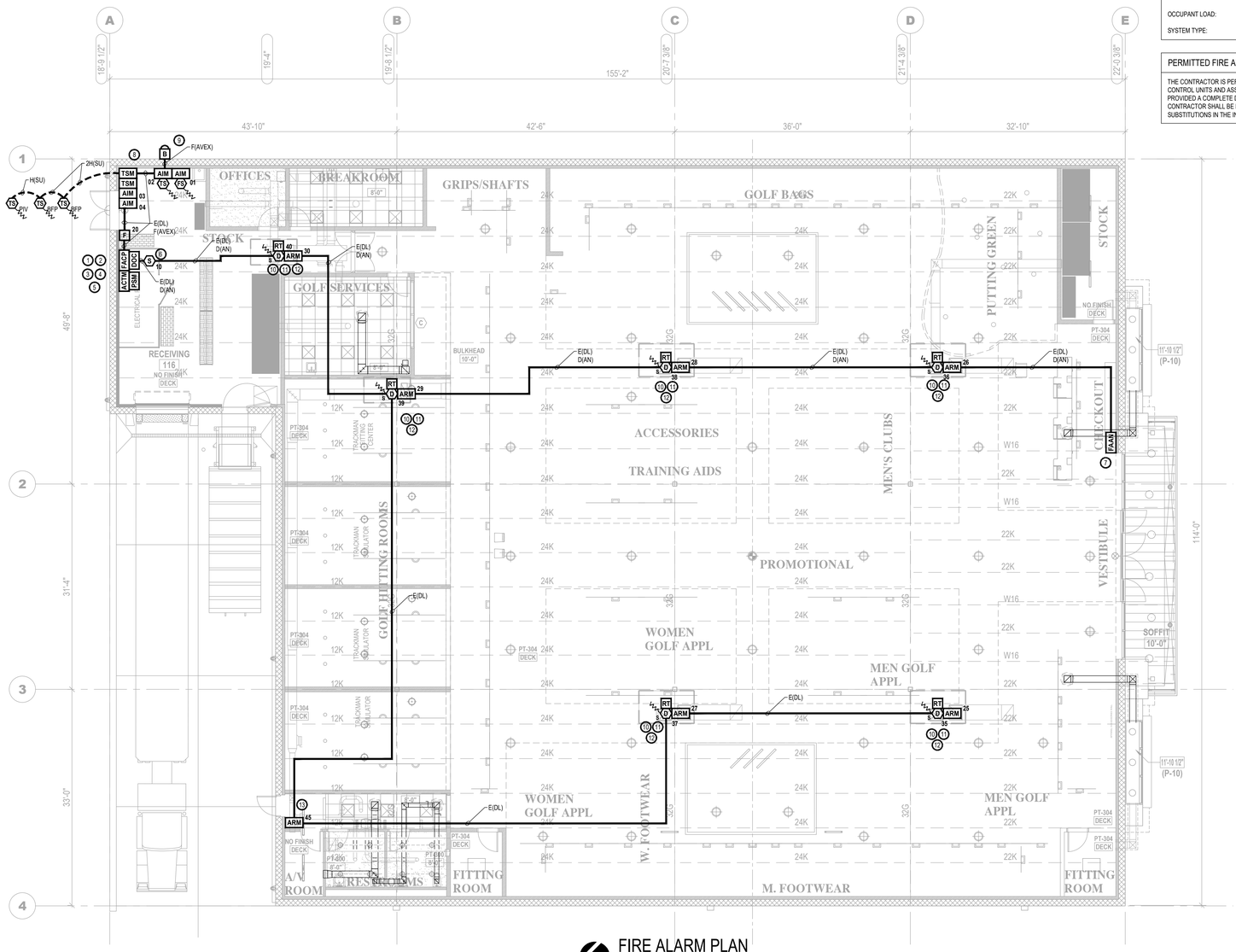
SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE A DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.

FIRE ALARM KEYED NOTES

1. COORDINATE CONNECTIONS TO DEDICATED 120 VAC POWER CIRCUITS FOR THE FIRE ALARM CONTROL PANEL WITH THE ELECTRICAL CONTRACTOR. THE DEDICATED CIRCUIT DISCONNECT SHALL BE RED IN COLOR, LABELED "FIRE ALARM CIRCUIT", AND HAVE A LOCKABLE TAB. ALL FIRE ALARM CIRCUIT BREAKERS SHALL BE CLEARLY MARKED AND MECHANICALLY SECURED TO PREVENT ANY UNAUTHORIZED TAMPERING. IDENTIFY THE LOCATION OF THE CIRCUIT DISCONNECT AT THE FACP. COORDINATE EXACT MOUNTING LOCATION OF CONTROL PANEL WITH THE OWNER'S REPRESENTATIVE AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
2. PROVIDE TWO (2) MEANS OF SIGNAL TRANSMISSION TO THE OFF-SITE MONITORING FACILITY. PROVIDE TWO DEDICATED PHONE LINE FOR THE PRIMARY MEANS AND SECONDARY MEANS OF TRANSMISSION. PROVIDE THE SERVICE PHONE NUMBER STICKER ON THE SURFACE OF THE FACP AND THE ASSOCIATED PHONE NUMBER USING DIRECTLY ON THE RJ-31X BOXES. COORDINATE ALL PROGRAMMING, SIGNALS TRANSMISSION AND CONNECTIONS WITH THE OFF-SITE MONITORING COMPANY.
3. PROVIDE TRANSIENT SURGE SUPPRESSION MODULE (DTK-120HW OR EQUAL) AT ELECTRICAL PANEL. THE SURGE SUPPRESSION MODULE SHALL BE CONNECTED TO THE DEDICATED FIRE ALARM CIRCUIT PER MANUFACTURERS SPECIFICATION. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.
4. PROVIDE A PHONE SUPPRESSION MODULE (ELK-955 OR EQUAL) AT EACH PHONE LINE. THE PHONE SUPPRESSION MODULE SHALL BE CONNECTED TO THE PRIMARY AND SECONDARY PHONE LINE PER MANUFACTURERS SPECIFICATION. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.
5. PROVIDE A DOCUMENTATION CABINET (RED ENCLOSURE) ADJACENT TO THE FIRE ALARM CONTROL PANEL TO HOUSE ALL SYSTEM DOCUMENTS IN ACCORDANCE WITH NFPA 72. SYSTEM DOCUMENTS SHALL INCLUDE (AT A MINIMUM) RECORD DRAWINGS, EQUIPMENT DATA SHEETS, SOFTWARE AND FIRMWARE CONTROL DOCUMENTATION. THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS", AND SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY AND PROTECTED FROM PUBLIC ACCESS.
6. MOUNT SMOKE DETECTOR ON THE BOTTOM OF THE DECK (NOT ON THE BOTTOM OF STRUCTURAL MEMBERS) AND LOCATED MORE THAN THREE (3) FEET FROM ANY MECHANICAL DIFFUSERS, AS INDICATED IN NFPA 72. THE SMOKE DETECTOR AND FIRE ALARM CABLING SHALL BE INSTALLED AND SUPPORTED A MINIMUM 1-1/2 INCHES FROM THE LOWEST SURFACE OF THE ROOF DECKING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
7. PROVIDE A FIRE ALARM ANNUNCIATOR (FAAN) ADJACENT TO THE FRONT ENTRANCE. THE FAAN SHALL BE FLUSH MOUNTED. COORDINATE EXACT MOUNTING LOCATION OF THE FIRE ALARM ANNUNCIATOR KEYPAD WITH THE OWNER'S REPRESENTATIVE AND AHJ PRIOR TO INSTALLATION.
8. PROVIDE ELECTRONIC MONITORING OF ALL SPRINKLER WATERFLOW AND TAMPER SWITCHES (BY OTHERS). COORDINATE EXACT QUANTITIES, LOCATION AND INTERFACE CONNECTIONS WITH THE SPRINKLER CONTRACTOR.
9. PROVIDE AN EXTERIOR NOTIFICATION APPLIANCE AT TEN (10) FEET ABOVE GRADE AND LOCATED ABOVE THE FIRE DEPARTMENT CONNECTION. COORDINATE EXACT MOUNTING LOCATION WITH THE OWNER'S REPRESENTATIVE AND AHJ PRIOR TO INSTALLATION.
10. PROVIDE ADDRESSABLE DUCT SMOKE DETECTOR (PROVIDED BY THE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR). PROVIDE WIRING CONNECTIONS TO THE ALARM AND TROUBLE CONTACTS ON THE DUCT DETECTORS TO ALLOW AN ALARM CONDITION TO TAKE PRIORITY OVER A TROUBLE CONDITION. COORDINATE ALL CABLING / CONDUIT ROUTING AND WIRING CONNECTION WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS PRIOR TO INSTALLATION.
11. PROVIDE A SEPARATE ADDRESSABLE RELAY MODULE (ARM) FOR SHUTDOWN OF ASSOCIATED AHU. LOCATED ARM AT AN ACCESSIBLE LOCATION WITHIN THREE (3) FEET OF THE ASSOCIATED AHU MOTOR CONTROLLER OR CONTROL CIRCUIT. PROVIDE ANY REQUIRED POWER CONNECTIONS AND SUPERVISION FOR DUCT DETECTOR AND ARM. COORDINATE ALL CABLING / CONDUIT ROUTING AND WIRING CONNECTION WITH THE MECHANICAL AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
12. PROVIDE A REMOTE TEST STATION / ANNUNCIATOR FOR EACH DUCT SMOKE DETECTOR. PROVIDE ALL REQUIRED CABLING CONNECTIONS AND CONDUIT FROM DETECTORS TO REMOTE TEST STATION / ANNUNCIATORS. MOUNT ALL REMOTE TEST STATION / ANNUNCIATORS ON AN ADJACENT COLUMN OR WALL AND AT AN ACCESSIBLE LOCATION THAT DOES NOT CONFLICT WITH STORE FIXTURES. COORDINATED EXACT MOUNTING LOCATIONS WITH THE OWNER'S REPRESENTATIVE AND LOCAL AHJ PRIOR TO INSTALLATION.
13. PROVIDE A SEPARATE ADDRESSABLE RELAY MODULE (ARM) FOR RELEASE OF DELAYED EGRESS DOOR. LOCATED ARM AT AN ACCESSIBLE LOCATION WITHIN THREE (3) FEET OF THE ASSOCIATED DOOR RELEASE CONTROLLER OR CONTROL CIRCUIT. PROVIDE ANY REQUIRED POWER CONNECTIONS AND SUPERVISION FOR ARM. COORDINATE ALL CABLING / CONDUIT ROUTING AND WIRING CONNECTION WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION.

FIRE ALARM INSTALLATION NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA STANDARDS AND ALL LOCAL ADOPTED CODES.
2. FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE. SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.
3. ALL FIRE ALARM CABLING SHALL BE FPL, FPLR OR FPLP AS REQUIRED BY THE ELECTRICAL CODE.
4. PROVIDE ALL REQUIRED CONDUIT, BACKBOXES, AND FITTINGS FOR THE FIRE ALARM SYSTEM CABLING.
5. FIRE ALARM CABLING SHALL BE RED IN COLOR.
6. FIRE ALARM CABLING SHALL NOT BE PAINTED.
7. CABLE ROUTING SHOWN ON DRAWINGS IS FOR INTENT. EXACT ROUTING SHALL BE COORDINATED WITH OTHER TRADES IN THE FIELD. SEE DRAWING NOTES AND DETAILS FOR ACCEPTABLE INSTALLATION METHODS.
8. ALL CABLING NOT IN RUNWAY SHALL BE NEATLY BUNDLED, WRAPPED TIGHT, AND PROPERLY SECURED. ANY CABLING NOT INSTALLED IN A NEAT AND PROFESSIONAL MANNER SHALL BE PULLED OUT AND RE-RUN BY INSTALLER AT NO ADDITIONAL COST TO OWNER.
9. CONTRACTOR RUNNING CABLING MUST MARK BOTH ENDS OF CABLING, PROVIDE A WIRE LEGEND FOR ALL LOCATIONS, AND PROVIDE A CONTINUITY TEST LOG FOR EACH CABLE.
10. EXPOSED CABLING SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. EXPOSED CABLING SHALL NOT BE RUN IN A "SPAN" FASHION BETWEEN BAR JOISTS OR BEAMS (I.E.: CABLING SHALL BE ROUTED ALONG PATH OF JOISTS AND BEAMS). ALL CABLING SHALL BE SECURED TO THE STRUCTURAL CEILING BETWEEN JOISTS OR BEAMS.
11. ALL CABLING SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND NOT FROM GRID, TILES, OR SUPPORT WIRES. ALL CABLING NOT IN RACEWAY SHALL BE SUPPORTED BY BUILDING STRUCTURE AT NO MORE THAN FIVE (5) FOOT INTERVALS.
12. ALL FIRE ALARM CABLING BELOW THE ROOF STRUCTURE, IN ELECTRICAL AND MECHANICAL ROOMS (SUBJECT TO PHYSICAL DAMAGE), CONCEALED ABOVE CEILINGS, OR IN PARTITIONS (SUBJECT TO PHYSICAL DAMAGE) SHALL BE INSTALLED IN METALLIC CONDUIT.
13. ALL POWER LIMITED FIRE ALARM CABLING ABOVE THE STRUCTURE, ABOVE LAY-IN CEILINGS, OR CONCEALED ABOVE CEILINGS (NOT SUBJECT TO PHYSICAL DAMAGE) ARE NOT REQUIRED TO BE INSTALLED IN CONDUIT.
14. ALL NON-POWER LIMITED FIRE ALARM CABLING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT.
15. ALL CONDUIT SHALL BE TERMINATED ABOVE THE WALL AT THE ROOF STRUCTURE LEVEL WITH SOME FORM OF GROMMET OR BOX CONNECTOR.
16. ALL CONDUIT LOCATED IN DRYWALL SHALL BE TERMINATED NO LESS THAN SIX (6) INCHES ABOVE THE CEILING TILE/ROOF STRUCTURE.
17. FOR DRYWALL APPLICATIONS, ALL CONDUIT AND BACKBOXES SHALL BE RECESSED INSIDE THE WALL.
18. EXPOSED CABLING OR CONDUIT IS NOT ALLOWED IN THE SHOWROOM.
19. ALL FIRE ALARM CABLING IN FINISHED AREAS SHALL BE CONCEALED.
20. COORDINATE DRILLING OF ANY HOLES (I.E. COLUMN PENETRATIONS) WITH THE OWNER'S REPRESENTATIVE AND ALL OTHER TRADES PRIOR TO INSTALLATION.
21. ALL FIRE ALARM DEVICES SHALL BE INSTALLED IN OR ON A PROPER BACKBOX. NO DEVICES SHALL BE INSTALLED WITHOUT A BACKBOX.
22. ALL CABLING, CONDUIT, AND BACKBOXES SHALL BE PROPERLY SUPPORTED AND SEISMICALLY BRACED, AS REQUIRED BY ALL APPLICABLE CODES AND THE LOCAL JURISDICTION.
23. CONDUIT AND CABLING SHALL ENTER INTO THE FACP ONLY AS APPROVED BY THE EQUIPMENT MANUFACTURER.
23. CONDUIT FILL SHALL NOT EXCEED 40%.
24. ALL FIRE ALARM JUNCTION BOXES SHALL BE RED IN COLOR.



FIRE ALARM PLAN

SCALE 1/8"=1'-0"

This item has been digitally signed and sealed by James L. Kinsloe on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FIRE PROTECTION ENGINEER OF RECORD:
JAMES L. KINSLOHR, PE
LICENSE NO. 87730

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CCI Project Number: 210358

PROJECT NUMBER:	01168
NO. ISSUE	DATE
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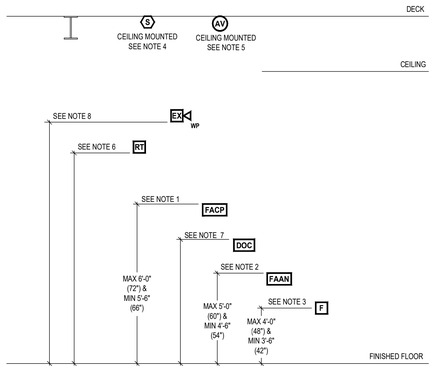
DRAWING:
FIRE ALARM PLAN

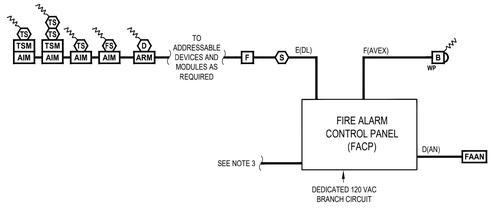
SHEET NUMBER:
FA1.0



NOTES:

1. COORDINATE EXACT MOUNTING HEIGHT OF CONTROL PANELS WITH THE OWNER'S REPRESENTATIVE, ELECTRICAL CONTRACTOR, AND AHJ PRIOR TO INSTALLATION.
2. COORDINATE EXACT MOUNTING HEIGHT OF ANNUNCIATOR AT THE FRONT ENTRANCE WITH THE OWNER'S REPRESENTATIVE, ELECTRICAL CONTRACTOR, AND AHJ PRIOR TO INSTALLATION.
3. COORDINATE EXACT MOUNTING HEIGHT OF MANUAL PULL STATION WITH THE OWNER'S REPRESENTATIVE, ELECTRICAL CONTRACTOR, AND AHJ PRIOR TO INSTALLATION. MEASURED TO THE OPERABLE PART OF THE PULL STATION.
4. WHERE REQUIRED - LOCATE CEILING MOUNTED SMOKE DETECTORS ON THE BOTTOM OF DECK (NOT ON BOTTOM OF STRUCTURAL MEMBERS), AND AS INDICATED IN NFPA 72. THE SMOKE AND/OR HEAT DETECTORS AND FIRE ALARM CABLING SHALL BE INSTALLED AND SUPPORTED A MINIMUM 1-1/2 INCHES FROM THE LOWEST SURFACE OF THE ROOF DECKING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
5. WHERE REQUIRED -THE CEILING MOUNTED NOTIFICATION APPLIANCES SHALL BE INSTALLED ON THE BOTTOM OF JOIST / DECK IN ACCORDANCE WITH NFPA 72. THE CEILING MOUNTED NOTIFICATION APPLIANCES AND FIRE ALARM CABLING SHALL BE INSTALLED AND SUPPORTED A MINIMUM 1-1/2 INCHES FROM THE LOWEST SURFACE OF THE ROOF DECKING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
6. MOUNT THE REMOTE TEST STATION / ANNUNCIATORS ON AN ADJACENT COLUMN OR WALL AND AT AN ACCESSIBLE LOCATION THAT DOES NOT CONFLICT WITH STORE FIXTURES. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT OF THE REMOTE TEST STATIONS / ANNUNCIATOR WITH THE OWNER'S REPRESENTATIVE, ELECTRICAL CONTRACTOR, AND AHJ PRIOR TO INSTALLATION.
7. THE DOCUMENTATION CABINET SHALL BE INSTALLED WITHIN SIX (6) INCHES FROM THE BOTTOM OF THE FIRE ALARM CONTROL PANEL CABINET. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT OF THE DOCUMENTATION CABINET WITH THE OWNER'S REPRESENTATIVE AND LOCAL AHJ PRIOR TO INSTALLATION.
8. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT OF THE EXTERIOR NOTIFICATION APPLIANCE WITH THE WITH THE OWNER'S REPRESENTATIVE, ELECTRICAL CONTRACTOR, AND AHJ PRIOR TO INSTALLATION.

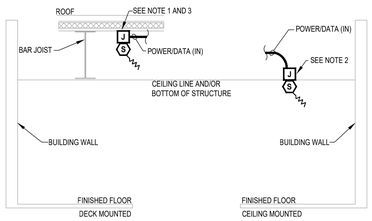
1 / FA1.1 TYPICAL FIRE ALARM MOUNTING HEIGHT DETAIL
NOT TO SCALE



NOTES:

1. PROVIDE DEDICATED 120 VAC CIRCUITS, AND BATTERY BACKUP IN THE FACP.
2. PROVIDE SYNCHRONIZATION OF ALL REQUIRED VISUAL NOTIFICATION APPLIANCES AND CIRCUITS THROUGHOUT THE STORE.
3. PROVIDE TWO (2) MEANS OF SIGNAL TRANSMISSION TO THE OFF-SITE MONITORING FACILITY. PROVIDE A DEDICATED PHONE LINE FOR THE PRIMARY MEAN AND SECONDARY MEANS OF TRANSMISSION.
4. PROVIDE ALL REQUIRED CIRCUITS, MODULES, AND CONNECTIONS TO CONTROL AUDIBLE AND VISUAL NOTIFICATION APPLIANCES.
5. PROVIDE SUPERVISION OF ALL 120 VAC POWER AND ALL NOTIFICATION APPLIANCE CIRCUITS.

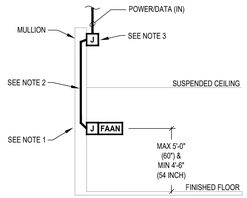
2 / FA1.1 TYPICAL FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE



NOTES:

1. INSTALL A 4 INCH SQUARE BOX ON BOTTOM OF DECK, AWAY FROM OBSTRUCTIONS, AND AS INDICATED ON FLOOR PLANS.
2. INSTALL A 4 INCH SQUARE BOX WITH A CADDY #512 T-BAR HANGER FOR SUPPORT ON CENTER OF SUSPENDED CEILING TILE, AWAY FROM OBSTRUCTIONS, AND AS INDICATED ON FLOOR PLANS.
3. THE SMOKE DETECTOR AND FIRE ALARM CABLING SHALL BE INSTALLED AND SUPPORTED A MINIMUM 1-1/2 INCHES FORM THE LOWEST SURFACE OF THE ROOF DECKING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.

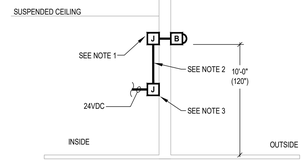
3 / FA1.1 SMOKE DETECTOR DETAIL
NOT TO SCALE



NOTES:

1. INSTALL A RECESSED 4 INCH BY 1-1/2 INCH DEEP SQUARE BOX WITH 1G PLASTER RING MEASURED TO THE CENTER OF OPERATING FEATURES.
2. RUN CABLING INSIDE THE WINDOW FRAME TO A 4 INCH SQUARE BOX WITH BLANK COVER.
3. INSTALL A 4 INCH SQUARE BOX 1 FOOT ABOVE SUSPENDED CEILING; OR 16 FEET ABOVE FINISHED FLOOR IF A SUSPENDED CEILING IS NOT PROVIDED.

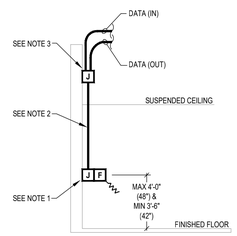
4 / FA1.1 MULLION MOUNTED FIRE ALARM ANNUNCIATOR DETAIL
NOT TO SCALE



NOTES:

1. INSTALL A 4 INCH SQUARE BOX WITH BLANK COVER ON THE INSIDE WALL AT 10 FEET ABOVE FINISHED FLOOR. STUB A 3/4 INCH CONDUIT THROUGH EXTERIOR WALL TO NOTIFICATION APPLIANCE.
2. STUB A 3/4 INCH CONDUIT TO A 4 INCH SQUARE BOX WITH BLANK COVER.
3. INSTALL A 4 INCH SQUARE BOX ADJACENT TO WATERFLOW SWITCH.

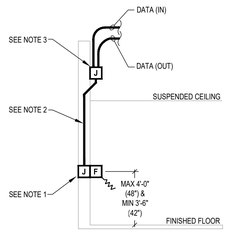
5 / FA1.1 WEATHERPROOF EXTERIOR NOTIFICATION DETAIL
NOT TO SCALE



NOTES:

1. INSTALL A 4 INCH SQUARE BOX MEASURED TO CENTER OF OPERATING MECHANISM.
2. STUB 3/4 INCH CONDUIT TO A 4 INCH SQUARE BOX WITH BLANK COVER.
3. INSTALL A 4 INCH SQUARE BOX 1 FOOT ABOVE SUSPENDED CEILING; OR 16 FEET ABOVE FINISHED FLOOR IF A SUSPENDED CEILING IS NOT PROVIDED.

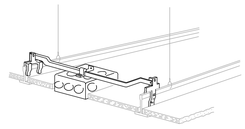
6 / FA1.1 SURFACE MOUNTED MANUAL PULL STATION DETAIL
NOT TO SCALE



NOTES:

1. INSTALL A RECESSED 4 INCH SQUARE BOX WITH A SINGLE GANG TRIM RING MEASURED TO CENTER OF OPERATING MECHANISM.
2. STUB 3/4 INCH CONDUIT INSIDE THE WALL TO A 4 INCH SQUARE BOX WITH BLANK COVER.
3. INSTALL A 4 INCH SQUARE BOX WITH POPIT DEVICE INSIDE 1 FOOT ABOVE SUSPENDED CEILING; OR 16 FEET ABOVE FINISHED FLOOR IF A SUSPENDED CEILING IS NOT PROVIDED.

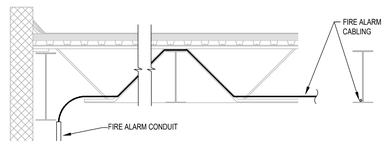
7 / FA1.1 FLUSH MOUNTED MANUAL PULL STATION DETAIL
NOT TO SCALE



NOTES:

1. DEVICES AND APPLIANCES SHALL NOT BE SUPPORTED BY CEILING TILES.
2. DEVICES AND APPLIANCES MUST BE ATTACHED TO A MANUFACTURE APPROVED BACKBOX SUPPORTED BY THE CEILING GRID UTILIZING AN APPROPRIATE SUPPORT BAR.
3. THE CEILING MOUNTED DEVICES AND APPLIANCES SHALL BE INSTALLED ALIGNED AESTHETICALLY WITH THE CEILING LIGHTING, SPRINKLERS, AND OTHER FIXTURES AS SHOWN ON FLOOR PLANS.
4. DETECTORS SHALL BE LOCATED MORE THAN THREE (3) FEET FROM AIR SUPPLY DIFFUSERS OR RETURN AIR OPENINGS AS INDICATED IN NFPA 72.

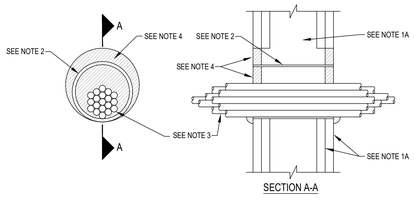
8 / FA1.1 JUNCTION BOX MOUNTING DETAIL
NOT TO SCALE



NOTES:

1. ALL OPEN FIRE ALARM CABLING SHALL BE CONCEALED FROM PUBLIC VIEW.

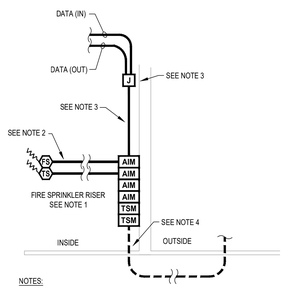
9 / FA1.1 OPEN FIRE ALARM CABLING DETAIL
NOT TO SCALE



NOTES:

1. WALL ASSEMBLY - THE 1 OR 2 HOUR FIRE-RATED GYPSUM WALLBOARD / STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS IN THE MANNER SPECIFIED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 X 4 INCH LUMBER SPACED 16 INCHES ON CENTER. STEEL STUDS TO BE MINIMUM 2-1/2 INCH WIDE AND SPACED MAXIMUM 24 INCHES ON CENTER.
   B. GYPSUM BOARD - NOM 5/8 INCH THICK GYPSUM BOARD, WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400, OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 5-1/2 INCHES WHEN SLEEVE (ITEM 2) IS EMPLOYED. MAXIMUM DIAMETER OF OPENING IS 4 INCHES WHEN SLEEVE (ITEM 2) IS NOT EMPLOYED.
2. METALLIC SLEEVE (OPTIONAL) - NOM 4 INCH DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR SCHEDULE 5 (OR HEAVIER) STEEL PIPE OR MINIMUM 0.016 INCH THICK GALVANIZE STEEL SLEEVE INSTALLED FLUSH WITH WALL SURFACES. THE ANNULAR SPACE BETWEEN STEEL SLEEVE AND PERIPHERY OF OPENING SHALL BE MINIMUM 0 INCHES (POINT CONTACT) TO MAXIMUM 1 INCH. WHEN SCHEDULE 5 STEEL PIPE OR EMT IS USED, SLEEVE MAY EXTEND UP TO 18 INCHES BEYOND THE WALL SURFACES.
3. CABLES - AGGREGATE CROSS SECTIONAL AREA OF CABLE IN OPENING TO BE MAXIMUM 45 PERCENT OF THE CROSS SECTIONAL AREA OF THE OPENING. THE ANNULAR SPACE BETWEEN THE CABLE BUNDLE AND THE PERIPHERY OF THE OPENING TO BE MINIMUM 0 INCHES (POINT CONTACT) TO MAXIMUM 1 INCH. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. SEE UL FIRE RESISTANCE DIRECTORY FOR SPECIFIC CONDUIT TYPES, SIZES AND QUANTITIES.
4. FILL, VOID OR CAVITY MATERIAL (SEALANT OR PUTTY) - FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH EACH END OF THE STEEL SLEEVE OR WALL SURFACE. FILL MATERIAL INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL. A MINIMUM 5/8 INCH THICKNESS OF SEALANT IS REQUIRED FOR THE 1 OR 2 HOUR F RATING. AN ADDITIONAL 1/2 INCH DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AROUND THE PERIMETER OF SLEEVE ON BOTH SIDES OF THE WALL WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL. MANUFACTURER MATERIAL - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP606, FS-ONE SEALANTS OR CP618 PUTTY.
5. CONSULT CURRENT UL FIRE RESISTANCE DIRECTORY (SPECIFICALLY W-L-3065 FOR DETAILS).

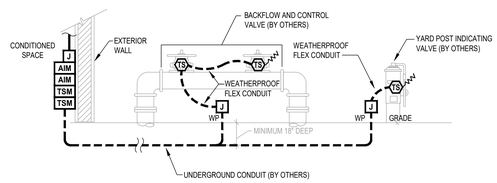
10 / FA1.1 FIRESTOP PENETRATION DETAIL (OPEN CABLING / WALL)
NOT TO SCALE



NOTES:

1. COORDINATE EXACT LOCATION AND QUANTITIES OF CONTROL VALVES AND WATERFLOW SWITCHES WITH THE FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION.
2. PROVIDE 1/2 INCH FLEXIBLE METALLIC CONDUIT FROM EACH WATERFLOW SWITCH AND GROUP OF TAMPER SWITCHES.
3. STUB A 1/2 INCH CONDUIT TO A JUNCTION BOX WITH BLANK COVER.
4. PROVIDE MONITORING CONNECTIONS TO ALL EXTERIOR SPRINKLER CONTROL VALVE SWITCHES (SWITCHES PROVIDED BY OTHERS). COORDINATE LOCATION OF ANY EXTERIOR UNDERGROUND CONDUIT TO ALL EXTERIOR SPRINKLER CONTROL VALVE SWITCHES WITH ELECTRICAL CONTRACTOR (CONDUIT PROVIDED BY OTHERS). PROVIDE ALL CABLING TO SWITCHES, FINAL WIRING CONNECTIONS AT SWITCHES, AND SUPERVISION OF ALL WIRING CONNECTIONS. TRANSIENT SUPPRESSION SHALL BE PROVIDED ON ALL FIRE ALARM CIRCUITS LOCATED IN UNDERGROUND OR EXTERIOR CONDUIT. COORDINATE ALL CONNECTIONS WITH THE SPRINKLER CONTRACTOR.

11 / FA1.1 TYPICAL SPRINKLER DETAIL
NOT TO SCALE



NOTES:

1. COORDINATE INSTALLATION OF A MINIMUM ONE (1) INCH UNDERGROUND CONDUIT, WITH PULL STRING, FOR FIRE ALARM CABLING CONNECTIONS TO THE EXTERIOR BACKFLOW PREVENTER AND YARD POST INDICATING VALVE. SEE ELECTRICAL DRAWINGS FOR DETAILS ON UNDERGROUND CONDUIT.
2. PROVIDE MONITORING OF ALL TAMPER SWITCHES (BY OTHERS) ON THE EXTERIOR BACKFLOW PREVENTER AND YARD POST INDICATING VALVE. COORDINATE WIRING CONNECTIONS WITH THE GENERAL CONTRACTOR AND SITE CIVIL CONTRACTOR.
3. PROVIDE TRANSIENT SUPPRESSION ON ALL FIRE ALARM CIRCUITS LOCATED IN UNDERGROUND CONDUIT. PROVIDE ONE (1) TRANSIENT SUPPRESSION MODULE FOR EACH FIRE ALARM CIRCUIT.
4. FIRE ALARM CABLING IN UNDERGROUND CONDUIT SHALL BE LISTED FOR WET LOCATIONS.
5. THE EXTERIOR JUNCTION BOXES SHALL BE TAMPER-RESISTANT SCREWS OR OTHER APPROVED MECHANICAL MEANS FOR PREVENTING ACCESS TO JUNCTION BOXES AND DEVICE COVERS INSTALLED OUTSIDE OF THE BUILDING IN ACCORDANCE WITH NFPA 72.

12 / FA1.1 EXTERIOR BACKFLOW MONITORING DETAIL
NOT TO SCALE

FACP BATTERY CALCULATIONS (FIRE-LITE ES-50X)

MODEL NUMBER	DESCRIPTION	QUANTITY	STANDBY POWER: CURRENT PER DEVICE (mA)	STANDBY POWER: TOTAL CURRENT (mA)	IN ALARM: CURRENT PER DEVICE (mA)	IN ALARM: TOTAL CURRENT (mA)	STANDBY BATTERIES (24-VOLT)	CURRENT (mA)
FIRE-LITE ES-50X	FIRE ALARM CONTROL PANEL	1	141	141	257	257	STANDBY CURRENT	162.10
FIRE-LITE ANN-80	ANNUNICATOR	1	15	15	40	40	HOURS	24
FIRE-LITE BG-12LX	MANUAL PULL STATION	1	0.30	0.30	SEE NOTE 1	SEE NOTE 1	STANDBY mA	3.890
FIRE-LITE SD355	SMOKE DETECTION	1	0.3	0.3	SEE NOTE 1	SEE NOTE 1	ALARM CURRENT	580
FIRE-LITE MMF-300	MONITOR MODULE	4	0.40	1.60	SEE NOTE 1	SEE NOTE 1	HOURS	0.083
FIRE-LITE CRF-300	RELAY MODULE	7	0.3	2.10	SEE NOTE 1	SEE NOTE 1	ALARM mA	48
FIRE-LITE D355	DUCT DETECTOR	6	0.3	1.80	SEE NOTE 1	SEE NOTE 1	TOTAL mA	3.939
							TOTAL AH	3.9
							CONTINGENCY	20%
							BATTERY TOTAL	4.7
AS INDICATED	MAX DRAIN ALL DEVICES	1	0	0	200	200		
SYSTEM SENSOR	CIRCUIT AV01	1	0	0	20	20		
SYSTEM SENSOR	CIRCUIT AV02	1	0	0	0	0		
TOTAL				162.10		580	BATTERY PROVIDED	7

NOTES:

1. ALARM CURRENT FOR ADDRESSABLE DEVICES IS CALCULATED BASED ON THE MAXIMUM CURRENT REQUIRED FOR ALL DEVICES.
2. BATTERIES IN EXCESS OF 18 AH CANNOT BE INSTALLED IN THE FIRE-LITE ES-50X FACP ENCLOSURE AND MUST BE INSTALLED IN A BATTERY BOX LISTED FOR THAT PURPOSE WITH A PROPERLY SIZED CHARGER

FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP CALCULATIONS

SIGNAL CIRCUIT DESCRIPTION	APS/CIRCUIT LOCATION	ACTUAL ALARM CURRENT (mA)	MAXIMUM DISTANCE TO LAST APPLIANCE: 12 AWG CABLING (FEET)	MAXIMUM DISTANCE TO LAST APPLIANCE: 14 AWG CABLING (FEET)	CALCULATED VOLTAGE DROP USING 14 AWG CABLING (BASED ON 20.4 VDC SOURCE): APPROX CIRCUIT LENGTH (FEET)	VOLTAGE AT LAST APPLIANCE (VOLTS)	VOLTAGE DROP (VOLTS)
FACP	MAIN ELECTRICAL ROOM						
AVEX	EXTERIOR NOTIFICATION APPLIANCE	20	56,995	35,631	200	20.38	0.02
AV01	N/A	0			0	20.40	0.00

NOTES:

1. NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.6 AMPS, MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.
2. FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.
3. NOTIFICATION APPLIANCE CIRCUITS BASED UPON THE ABOVE CURRENT AND VOLTAGE CRITERIA USING SYSTEM SENSOR NOTIFICATION APPLIANCE CRITERIA.

ZONING

ZONE NUMBER	ACTUATED DEVICES	ALPHANUMERIC LABEL OF ZONE
Z01	FACP / FAAN / DACT	ALARM CONDITION AT FACP, FAAN, AND OFF-SITE MONITORING STATION
Z02	FACP / FAAN / DACT	SUPERVISORY CONDITION AT FACP, FAAN, AND OFF-SITE MONITORING STATION
Z03	FACP / FAAN / DACT	TROUBLE CONDITION AT FACP, FAAN, AND OFF-SITE MONITORING STATION
Z04		
Z05	FACP	ACTIVATES EXTERIOR NOTIFICATION APPLIANCE
Z06		
Z07		
Z08	45	DELAYED EGRESS DOOR RELEASE
Z09		SHUTS DOWN HVAC UNITS (LOCAL UNIT SHUTDOWN)
Z10		
THRU		
Z20		

ADDRESSABLE DEVICES

ADDRESS	TYPE I.D.	ACTUATED ZONES	ALPHANUMERIC LABEL OF DEVICE
01	MONITOR	Z01, Z05	WATERFLOW SWITCH
02	MONITOR	Z02	TAMPER SWITCHES - INTERIOR SPRINKLER RISER
03	MONITOR	Z02	TAMPER SWITCHES - EXTERIOR BACKFLOW PREVENTER
04	MONITOR	Z02	TAMPER SWITCHES - EXTERIOR YARD PIV
05			
06			
07			
08			
09			
10	SMOKE	Z01	ELECTRIC ROOM - ABOVE FACP
11			
12			
13			
14			
15			
16			
17			
18			
19			
20	PULL	Z01	ADJACENT TO FACP
21			
22			
23			
24			
25	RELAY		RTU 1 SHUTDOWN
26	RELAY		RTU 2 SHUTDOWN
27	RELAY		RTU 3 SHUTDOWN
28	RELAY		RTU 4 SHUTDOWN
29	RELAY		RTU 5 SHUTDOWN
30	RELAY		RTU 6 SHUTDOWN
31			
32			
33			
34			
35	DUCT	Z02, Z10	RTU 1 SUPPLY DUCT SMOKE DETECTOR
36	DUCT	Z02, Z10	RTU 2 SUPPLY DUCT SMOKE DETECTOR
37	DUCT	Z02, Z10	RTU 3 SUPPLY DUCT SMOKE DETECTOR
38	DUCT	Z02, Z10	RTU 4 SUPPLY DUCT SMOKE DETECTOR
39	DUCT	Z02, Z10	RTU 5 SUPPLY DUCT SMOKE DETECTOR
40	DUCT	Z02, Z10	RTU 6 SUPPLY DUCT SMOKE DETECTOR
41			
42			
43			
44			
45	RELAY		DELAYED EGRESS DOOR RELEASE
46			
47			
48			
49			
50			

This item has been digitally signed and sealed by James L. Kinsloher on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FIRE PROTECTION ENGINEER OF RECORD:
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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

CCI Project Number: 210358

PROJECT NUMBER:	01168
NO. ISSUE	DATE
PERMIT	04-16-21

DRAWING:
FIRE ALARM DETAILS AND PROGRAMMING

SHEET NUMBER:
FA1.1

SYMBOL KEY

- EXISTING UNDERGROUND WATER MAIN
- NEW PIPING
- RECOMMENDED CENTER LINE ELEVATION OF PIPE A.F.F. AND/OR CENTER LINE ELEVATION OF PIPE FROM TOP OF JOIST (T.T.B. = TIGHT TO BOTTOM)
- GLOBE VALVE
- RISER
- STORZ FIRE DEPARTMENT CONNECTION
- RISE FROM LEFT TO RIGHT AND DROP FROM RIGHT TO LEFT
- CAPPED PIPE
- PLUGGED OUTLET
- HYDRAULIC REFERENCE POINT
- CENTER LINE OF SPRINKLER: ALIGN WITH LIGHTS AND/OR OTHER SPRINKLERS: COORDINATE WITH OTHER TRADES.
- PIPE HANGER
- TRAPEZE HANGER
- ZONE BOUNDARY LINE

NOTE

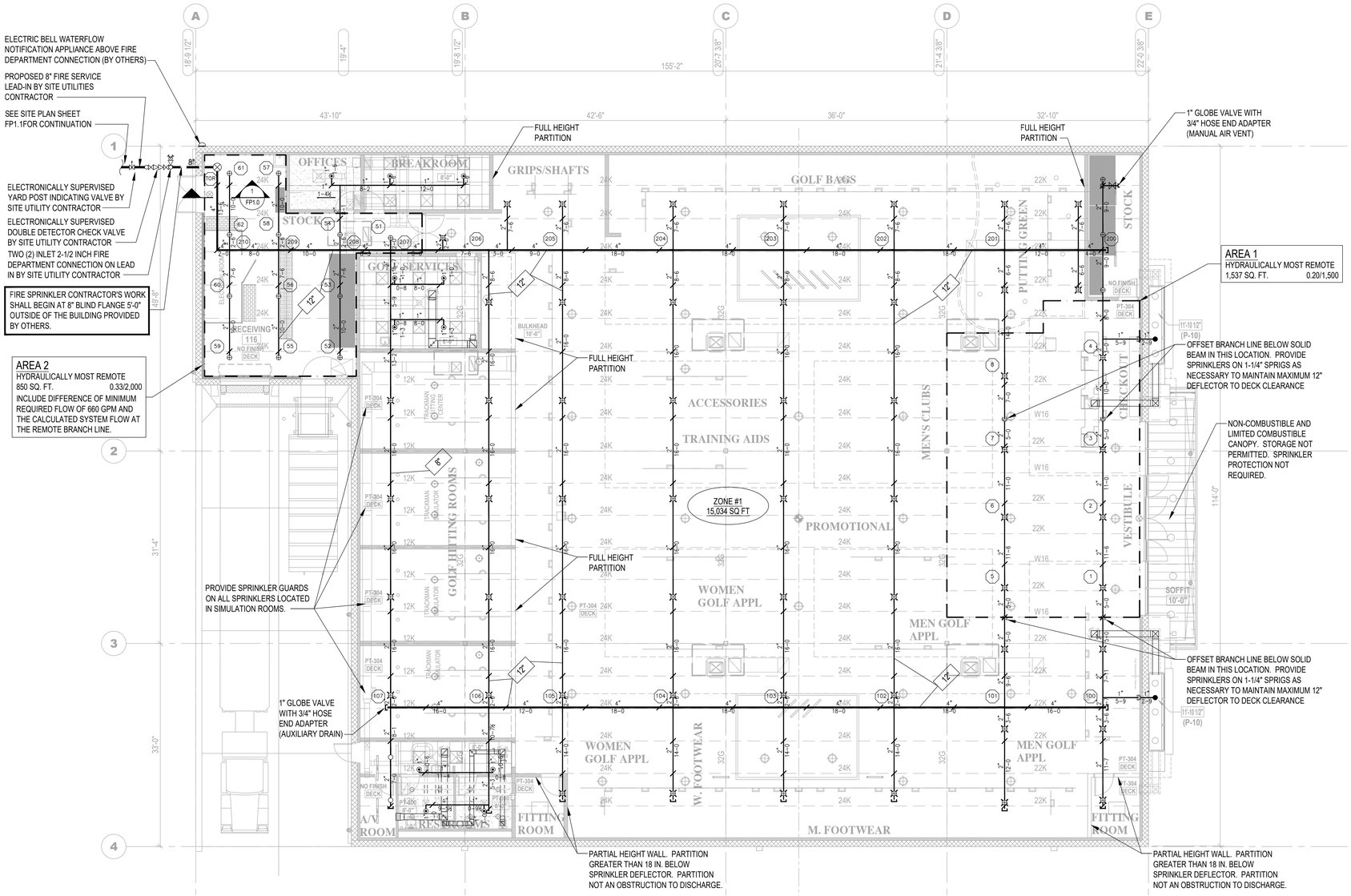
STRUCTURAL SHOWN FOR REFERENCE ONLY. VERIFY ACTUAL STRUCTURAL LOCATIONS.

SPRINKLER LEGEND

SYMBOL	SPRINKLER TYPE	TEMP.	K	FINISH	RESP.	QTY.
	BRASS EXTENDED COVERAGE UPRIGHT (18' X 18' MAXIMUM SPACING)	ORD	14.0	BRASS	SR	57
	UPRIGHT	HIGH	8.0	BRASS	SR	15
	UPRIGHT	ORD	5.6	BRASS	QR	2
	WHITE RECESSED PENDENT AND 1" DROP	ORD	5.6	WHITE	QR	11
	WHITE CONCEALED PENDENT AND 1" DROP	INT	5.6	WHITE	QR	2

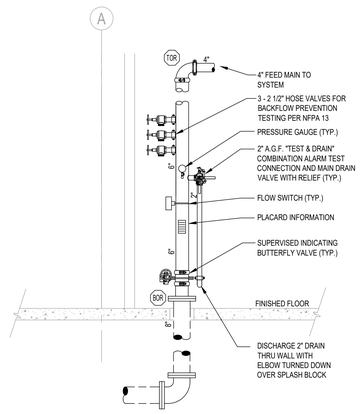
CEILING HEIGHT CHART

ROOM DESCRIPTION	CEILING HEIGHT
SALES FLOOR	OPEN TO DECK
GOLF FITTING ROOM	OPEN TO DECK
FRONT STOCK	OPEN TO DECK
PUTTING GREEN	OPEN TO DECK
CHECKOUT	OPEN TO DECK
AV ROOM	OPEN TO DECK
FITTING ROOMS	OPEN TO DECK
MEN'S RESTROOM	8'-0"
WOMEN'S RESTROOM	8'-0"
OFFICE	8'-0"
BREAKROOM	8'-0"
ALCOVE	8'-0"
GOLF SERVICES	8'-0"
STOCK/RECEIVING AREA	OPEN TO DECK
ELECTRIC ROOM	OPEN TO DECK
EXTERIOR SOFFIT	10'-0"



FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0" FIN. FLOOR ELEV. = 100'-0" (28.50' AMSL)



1 FP1.0 ELEVATION AT RISERS

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GOLF GALAXY

GATLIN PLAZA
PORT ST. LUCIE, FL

CCI Project Number: 210358

PROJECT NUMBER:		01168
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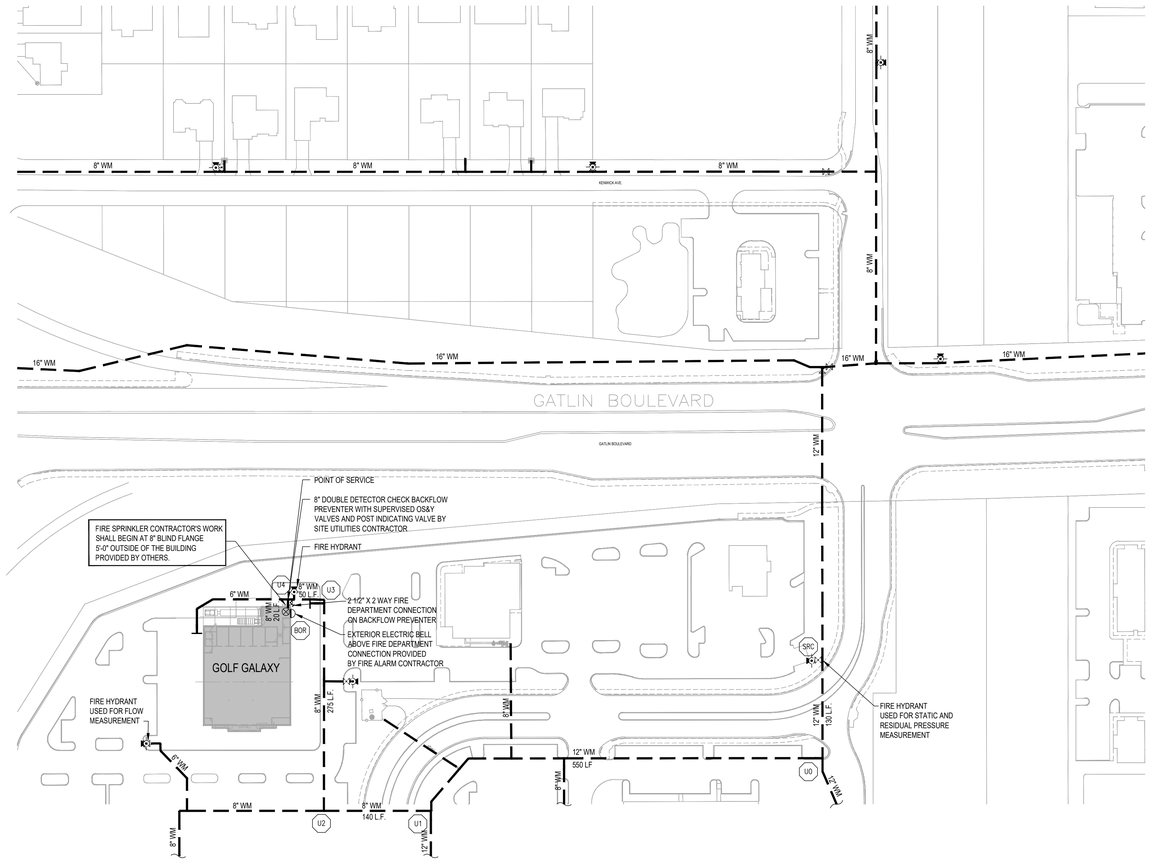
DRAWING:
FIRE SPRINKLER PLAN

SHEET NUMBER:
FP1.0



SITE UTILITY PLAN

SCALE: 1" = 80'-0" FIN. FLOOR ELEV. = 100'-0" (28.5 AMSL)

UNDERGROUND PIPING NOTE

ALL UNDERGROUND PIPING, VALVES, FITTINGS, DIMENSIONS, ETC. ARE SHOWN FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR EXACT LOCATIONS, TYPES, AND SIZES OF ALL COMPONENTS IN ADDITION TO DETAILS OF CONSTRUCTION.

DESIGN CRITERIA

OFFICE AREAS, BREAKROOM AND RESTROOMS (LIGHT HAZARD WET PIPE FIRE SPRINKLER SYSTEMS):

DENSITY - 0.10 GPM/SQ FT

OPERATING AREA - 1,500 SQ FT

TEMPERATURE CLASSIFICATION / NOMINAL K-FACTOR / RESPONSE TYPE - ORD / 5.6 / QR

HOSE STREAM ALLOWANCE - 100 GPM

DURATION: 0.5 HR

SALES AREA (ORDINARY HAZARD GROUP II WET PIPE FIRE SPRINKLER SYSTEM):

DENSITY - 0.20 GPM/SQ FT

OPERATING AREA - 1,500 SQ FT

SALES FLOOR: EXTENDED COVERAGE WITH 18'X18' MAXIMUM SPACING
TEMPERATURE CLASSIFICATION / NOMINAL K-FACTOR / RESPONSE TYPE - ORD / 14.0 / SR (ECOH)

DURATION: 1.0 HR

STAGING AREA AND RECEIVING AREA (CLASS I-IV COMMODITY; CARTONED, NON-ENCAPSULATED ON RACK WITH 6 FT AISLES WET PIPE FIRE SPRINKLER SYSTEM; NFPA 13, 2016 ED. FIGURE 16.2.1.3.2(d) AND FIGURE 16.2.1.3.4.1):

DENSITY - 0.33 GPM/SQ FT

OPERATING AREA - 2,000 SQ FT

STAGING AREA AND RECEIVING: STANDARD COVERAGE SPACING
TEMPERATURE CLASSIFICATION / NOMINAL K-FACTOR / RESPONSE TYPE - HIGH / 8.0 / SR
CALCULATE ENTIRE AREA (850 SQ FT) AND INCLUDE ADDITIONAL FLOW TO REMOTE BRANCH LINE OF THE DIFFERENCE OF (0.33 GPM * 2,000 SQ FT = 660 GPM) AND THE CALCULATED SYSTEM FLOW PER NFPA 13; 2016 ED. 23.4.4.2.5.

HOSE STREAM ALLOWANCE - 500 GPM

DURATION: 2.0 HR

SPRINKLER SPACING SHALL BE AS SHOWN ON THE ENGINEERING DRAWINGS.

ACOUSTICAL TILE - LOCATE SPRINKLERS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS. NOT MORE THAN A 3 IN. RADIUS TOLERANCE ABOUT THE POINT IDENTIFIED BY DIMENSION WILL BE ACCEPTED. WHERE ROWS OF SPRINKLERS ARE PROVIDED WITHIN THE SAME CEILING PLANE, ANY PART OF THE TOLERANCE USED FOR ONE SPRINKLER SHALL BE THE SAME FOR ALL OTHERS IN THAT SAME ROW.

HARD CEILINGS - LOCATE SPRINKLERS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS. SPRINKLERS SHALL BE IN LINE WITH LIGHT FIXTURES AND OTHER SPRINKLERS WHERE INDICATED ON THE DRAWINGS. COORDINATE CLOSELY WITH THE ELECTRICAL CONTRACTOR.

UNFINISHED AREAS - LOCATE SPRINKLERS AS SHOWN ON THE ENGINEERING DRAWINGS.

FIRE PROTECTION WATER SUPPLY HAS BEEN OBTAINED FROM A HYDRANT FLOW TEST PERFORMED ON 03/30/2021 BY CITY OF PORT ST. LUCIE UTILITIES. THE WATER SUPPLY SHALL BE CONSIDERED EFFECTIVE AT THE BASE OF THE STATIC/RESIDUAL HYDRANT. THE APPROXIMATE WATER SUPPLY ELEVATION IS 28.5 FT AMSL OR EVEN WITH THE FINISH FLOOR. NO SUBSTITUTIONS OF WATER SUPPLY DATA OR ITS EFFECTIVE POINT WILL BE ALLOWED.

ACTUAL STATIC: 65 PSI
ACTUAL RESIDUAL: 64 PSI
ACTUAL FLOW: 1,110 GPM

THE ABOVE WATER SUPPLY COORDINATES DO NOT INCLUDE THE REQUIRED 10% OF THE STATIC PRESSURE SAFETY FACTOR THAT SHALL BE ENFORCED. THE FOLLOWING WATER SUPPLY COORDINATES HAVE BEEN ADJUSTED -7 PSI FOR THE REQUIRED SAFETY FACTOR.

DESIGN STATIC: 58 PSI
DESIGN RESIDUAL: 57 PSI
DESIGN FLOW: 1,110 GPM

PROVIDE FIRE DEPARTMENT CONNECTION AS REQUIRED.

GENERAL NOTES

1. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS.
2. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC.
3. ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES, AND QUANTITIES OF OTHER TRADES' WORK.
4. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THE DRAWINGS ARE 100% CAD. THE HYDRAULIC CALCULATIONS HAVE BEEN PREPARED USING HYDRACALC. THESE DOCUMENTS WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR IN EITHER ELECTRONIC FORM OR HARD COPY.
5. SUPPLY ONLY ONE (1) SPRINKLER FROM A SINGLE BRANCH LINE OUTLET. PROVIDE NEW BRANCH LINES AS REQUIRED.
6. SPRINKLERS NEAR A HEAT SOURCE (UNIT HEATERS, DIFFUSERS, STEAM MAINS, SKYLIGHTS, ETC.) SHALL HAVE TEMPERATURE RATINGS IN ACCORDANCE WITH NFPA 13.
7. IT IS UNDERSTOOD, UNLESS SPECIFICALLY INDICATED OTHERWISE, THAT THE PIPE SIZES AS SHOWN ON THE BID DOCUMENTS WILL BE USED.

HANGER NOTES

1. COORDINATE ALL HANGER TYPES AND LOCATIONS WITH THE STRUCTURAL ENGINEER OF RECORD.
2. PIPES LARGER THAN 4 IN. RUNNING PARALLEL TO BAR JOISTS SHALL BE HUNG FROM TRAPEZE HANGERS SUPPORTED NEARLY EQUALLY BY TWO JOISTS.
3. ONLY ONE PIPE SHALL BE SUPPORTED FROM A SINGLE TRAPEZE HANGER UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
4. HANGERS WITH MORE THAN 150 POUNDS OF LOAD SHOULD BE ATTACHED TO THE JOIST AT A PANEL POINT.
5. PROVIDE VERTICAL RESTRAINT FOR ARMOVERS AND END OF BRANCH LINES

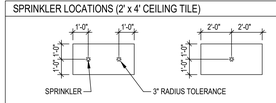
PIPING/FITTING NOTES

1. ALL PIPING AND FITTINGS SHALL BE NEW UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. MAINS SHALL BE SCHEDULE 10 ASTM A795, A53, OR A135 PER NFPA 13.
3. BRANCH LINES SHALL BE SCH 10 EXCEPT WHERE THREADED FITTINGS ARE USED. PIPE FOR THREADED FITTING SHALL BE SCH 40 ASTM A795, A53, OR A135 PER NFPA 13.
4. ALL PIPING SHALL HAVE A CORROSION RESISTANCE RATIO (CRR) OF 1.0 OR GREATER.
5. GROOVED FITTINGS AND COUPLINGS SHALL BE OF THE SAME MANUFACTURER.
6. THREADED FITTINGS SHALL BE CAST IRON OR MALLEABLE IRON.
7. ALL PIPING AND FITTINGS SHALL BE U.L. LISTED AND/ OR F.M. APPROVED.
8. HEX BUSHINGS SHALL NOT BE USED.

TESTING/FLUSHING NOTES

1. ALL SYSTEMS SHALL BE TESTED PER NFPA 13.
2. UNDERGROUND SHALL BE FLUSHED IN ACCORDANCE WITH NFPA PRIOR TO CONNECTING TO THE OVERHEAD SYSTEM.
3. TESTING SHALL BE COORDINATED WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND COMPLY WITH ALL LOCAL REQUIREMENTS.

SPRINKLER LOCATIONS (2' x 4' CEILING TILE)



NOTE:

SPRINKLERS SHALL BE POSITIONED AS SHOWN WITH A 3" TOLERANCE. HOWEVER, SHOULD ANY PART OF THE TOLERANCE BE USED, THEN ALL THE SPRINKLERS IN THE ROW SHALL BE OFFSET BY THE SAME DISTANCE IN THE SAME DIRECTION.

NOTE

PROVIDE SPRINKLER PROTECTION BELOW DUCTS AND OTHER OBSTRUCTIONS IN EXPOSED STRUCTURE AREAS PER NFPA 13.

SYMBOL KEY

- EXISTING UNDERGROUND WATER MAIN
- NEW PIPING
- XX RECOMMENDED CENTER LINE ELEVATION OF PIPE A.F.F. AND/OR CENTER LINE ELEVATION OF PIPE FROM TOP OF JOIST (T.T.B. = TIGHT TO BOTTOM)
- GLOBE VALVE
- RISER
- STORZ FIRE DEPARTMENT CONNECTION
- RISE FROM LEFT TO RIGHT AND DROP FROM RIGHT TO LEFT
- CAPPED PIPE
- PLUGGED OUTLET
- XX HYDRAULIC REFERENCE POINT
- CENTER LINE OF SPRINKLER: ALIGN WITH LIGHTS AND/OR OTHER SPRINKLERS: COORDINATE WITH OTHER TRADES.
- PIPE HANGER
- TRAPEZE HANGER
- ZONE BOUNDARY LINE

NOTE

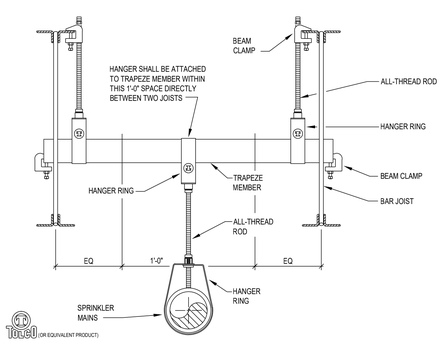
STRUCTURAL SHOWN FOR REFERENCE ONLY. VERIFY ACTUAL STRUCTURAL LOCATIONS.

SPRINKLER LEGEND

SYMBOL	SPRINKLER TYPE	TEMP.	K	FINISH	RESP.	QTY.
	BRASS EXTENDED COVERAGE UPRIGHT (18' X 18' MAXIMUM SPACING)	ORD	14.0	BRASS	SR	57
	UPRIGHT	HIGH	8.0	BRASS	SR	15
	UPRIGHT	ORD	5.6	BRASS	QR	2
	WHITE RECESSED PENDENT AND 1" DROP	ORD	5.6	WHITE	QR	11
	WHITE CONCEALED PENDENT AND 1" DROP	INT	5.6	WHITE	QR	2

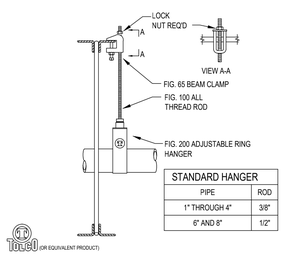
FIRE SPRINKLER CONTRACTOR (FSC) BIDDING AND INSTALLATION TIMELINE

1. FIRE SPRINKLER CONTRACTORS SHALL PREPARE SPRINKLER BID BASED ON THESE CONTRACT DOCUMENTS (CDS). THE FSC SHALL DELIVER THEIR SHOP DRAWING SUBMITTAL (SDS) TO CCI FOR REVIEW NO MORE THAN TWO (2) WEEKS PRIOR TO THE START OF THE FSC'S WORK. SEE SPECIFICATION SECTION 15300 FOR ADDITIONAL DETAILS REGARDING THE FSC'S SDS.
2. THE ELECTRONIC VERSIONS (AUTOCAD) AND HYDRAULIC CALCULATION FILES WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR (FSC) FROM CCI FOR USE IN PREPARING THE SHOP DRAWING SUBMITTAL. THE FSC'S REQUEST SHALL BE MADE WITHIN TWO (2) WEEK OF SPRINKLER CONTRACT AWARD. ELECTRONIC DATA FILES WILL BE ELECTRONICALLY TRANSMITTED TO THE FSC UPON RECEIPT OF SIGNED ELECTRONIC RELEASE FORM. NOTE: THE FSC MAY UTILIZE OTHER HYDRAULIC CALCULATION PROGRAMS TO PRODUCE SHOP DRAWING SUBMITTAL.
3. AFTER SATISFACTORY REVIEW OF THE SDS BY CCI, THE FSC SHALL SUBMIT TO ALL AUTHORITIES HAVING JURISDICTION FOR INSTALLATION PERMIT APPROVAL WHERE APPLICABLE. THE FSC SHALL ALSO SUBMIT TO THE INSURANCE UNDERWRITER FOR INSURANCE PURPOSES. SUBMITTALS MAY OCCUR CONCURRENTLY WHERE SCHEDULES REQUIRE, BUT CC'S REVIEW AS THE ENGINEER OF RECORD SHALL TAKE PRECEDENCE OVER ALL OTHER SUBMITTAL REVIEWS (NO EXCEPTIONS).
4. THE FSC SHALL BE RESPONSIBLE FOR RESPONDING, IN WRITING, TO ANY COMMENTS FROM ALL AUTHORITIES HAVING JURISDICTION AND THE INSURANCE UNDERWRITER WITHIN TEN (10) WORKING DAYS AFTER THE RECEIPT OF THEIR COMMENTS. COPIES OF THE RESPONSE SHALL BE SENT TO CCI AND THE OWNER'S CONSTRUCTION REPRESENTATIVE.
5. THE FSC SHALL COMPLETE ALL PRELIMINARY TESTING PROCEDURES PRIOR TO FINAL TESTING. SEE SPECIFICATION SECTION 15300 FOR ADDITIONAL DETAILS ON PRELIMINARY AND FINAL TESTING.
6. THE FSC SHALL COMPLETE AND SUBMIT ALL CONTRACTOR'S MATERIAL AND TEST CERTIFICATES (INCLUDE UNDERGROUND PIPING CERTIFICATE WHERE APPLICABLE) TO HL, PRIOR TO FINAL SYSTEM ACCEPTANCE.
7. THE FSC SHALL SUBMIT ALL PROJECT CLOSE-OUT DOCUMENTS TO HL, PRIOR TO FINAL SYSTEM ACCEPTANCE, IN ACCORDANCE WITH PROJECT REQUIREMENTS IN HARD COPY AND ELECTRONIC FILE FORMAT INCLUDING THE FOLLOWING ITEMS:
   - OPERATING AND MAINTENANCE INSTRUCTIONS.
   - AS-BUILT DOCUMENTS.
   - WARRANTY INFORMATION.



TRAPEZE HANGER

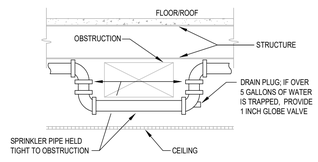
NOT TO SCALE



STANDARD HANGER	
PIPE	ROD
1" THROUGH 4"	3/8"
6" AND 8"	1/2"

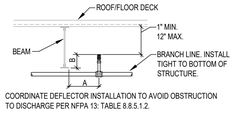
TOP BEAM CLAMP, ROD, AND RING

NOT TO SCALE



TYPICAL OFFSET AT OBSTRUCTION

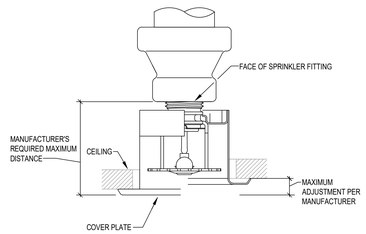
NOT TO SCALE



COORDINATE DEFLECTOR INSTALLATION TO AVOID OBSTRUCTION TO DISCHARGE PER NFPA 13: TABLE 8.8.5.1.2.

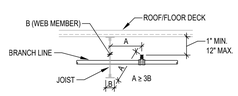
TYPICAL BEAM CLEARANCE REQUIREMENT

NOT TO SCALE (EXTENDED COVERAGE UPRIGHT ON SPRIG)



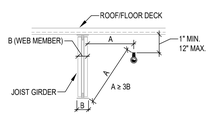
VERTICAL TOLERANCE FOR CONCEALED SPRINKLERS

NOT TO SCALE



TYPICAL JOIST CLEARANCE REQUIREMENT

NOT TO SCALE



TYPICAL JOIST GIRDER CLEARANCE REQUIREMENT

NOT TO SCALE

This item has been digitally signed and sealed by James L. Kinsloe on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FIRE PROTECTION ENGINEER OF RECORD:
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CORPORATE CERTIFICATE OF AUTHORITY NO. 7588

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GOLF GALAXY

GATLIN PLAZA
PORT ST. LUCIE, FL

CCI Project Number: 210358

PROJECT NUMBER: 01168

NO.	ISSUE	DATE
	PERMIT	04-16-21

DRAWING:
FIRE SPRINKLER NOTES AND DETAILS

SHEET NUMBER:
FP1.1

NOVAR ACCOUNT SPECIFICATION

Novar Building Automation System

Onsite Installation Scope of Work for

Dick's Sporting Goods 2019 New Prototype Store Construction

Dick's Sporting Goods General Contractor's scope of work:

- Notify Novar when Dick's Sporting Goods Ethernet is active and operational. This is required prior to the second visit as Novar commissioning cannot be completed without it.
- Notified Novar when Dick's Sporting Goods T1 or temporary 4G is active and operational. This is required prior to the second visit as Novar commissioning cannot be completed without it.
- Provide the Lennox 94L60 zone temperature and Lennox CO2 sensors to Novar's contractor during the second trip that occurs two weeks prior to the construction completion date located on Dick's Sporting Goods construction schedule.
- Provide the Lennox Relative Humidity sensors (on Humiditrol units) sensors to Novar's contractor during the second trip that occurs two weeks prior to the construction completion date located on Dick's Sporting Goods construction schedule.

Lennox's scope of work:

- Lennox will provide a factory startup of all RTU's and will set each RTU to run based on its return air sensor to the default setpoints to 74F cooling and 68F heating. This is required prior to Novar's second trip. During the Novar startup, we will communicate to these RTU's and take over control.
- Provide Lennox 94L60 zone temperature sensors and CO2 sensors for each RTU. Also, provide Lennox Relative Humidity sensors for all Humiditrol units.

Square D's scope of work:

- Square D to install Novar provided panel components inside a dedicated section of the Square D powerwall switchgear.
- Square D to request material from Novar 15 business days in advance.

Dick's Sporting Goods Ethernet cabling provider scope of work:

- Provide and install (1) Ethernet cable to the Novar XCM20 located in the Square D powerwall switchgear. Provide connectors on both ends and test the cable. This is required prior to Novar's second trip.
- Provide and install (1) Ethernet cable to the Square D NF3500G4 Master controller in the Square D powerwall. Provide connectors on both ends and test the cable. This is required prior to Novar's second trip.

Dick's Sporting Goods Electrical Contractor's scope of work

- Provide (2) 120VAC line voltage circuits to the Novar panel located inside the Square D powerwall. Terminate line voltage complete.
- Provide single gang boxes and conduit for Lennox zone temperature sensors, CO2 sensor, and Relative Humidity sensor. Refer to the Dick's Sporting Goods plans for sensor locations. The EC to also provide a pull string.
- If Exhaust Fans are to be controlled based on a time of day, the power should come from a Square D Powerlink breaker. Novar will program this breaker to operate based on a time of day (Employee schedule).
- If Exhaust Fans are to be interlocked with a Lennox RTU supply air fan, it is the EC's responsibility to perform this work complete and/or coordinate with the Mechanical Contractor.
- Provide single gang conduit and boxes for each global temperature sensor shown on the Novar plans. Refer to the mechanical drawings for locations. Refer to Novar drawings for sensors needed (i.e. show window sensors, data room sensor, unit heater receiving area sensor, etc.).
- Provide single gang conduit and box for thermostat for the unit heater in the receiving area, MC to provide the thermostat for the unit heater.
- Provide conduit stub ups for the Square D communication cable between panels in the main switch gear (panels A, C and F) to the remote panel BB.
- EC to wire programmable breakers for Novar control according to the E5.1 drawings.
- Metering: Dick's Sporting Goods wishes to meter the entire buildings energy consumption. The Electrical Contractor (EC) is responsible for installing the NOVAR PROVIDED Class 5000 meter complete. Novar will install the low voltage communication wiring inside the conduit provided by the EC and make the low voltage communication terminations.
  - Novar provided Meter installation: The Novar provided standalone meter is the main kWh meter that captures the entire buildings energy consumption. The EC must install the Novar provided meter complete. The meter will be mounted at the Square D factory inside the powerwall, EC to mount the current transformers (CT) on the main electrical feeds in the main distribution panel in a fashion as to capture the entire buildings energy consumption. Identify and ensure proper phasing and CT direction. Terminate CT wiring to the Novar provided meter as required. If the CT wiring is not long enough to reach the meter, the wire can be extended with THHN wiring up to 2000' per CT in conduit.

○ NOTE: A box must be added between the electrical panel and the NOVAR PROVIDED meter. The EC is to install a Novar provided fuse kit for protection of the NOVAR PROVIDED meter.

- The EC must be onsite at the time of Novar's startup (second trip that occurs two weeks prior to the construction completion date located on Dick's Sporting Goods construction schedule) to verify all Metering and CT installation work.

Dick's Sporting Goods Mechanical Contractor's scope of work

- Provide a 24 volt thermostat for control of the unit heater in receiving area.
- If temporary heating and cooling is required, MC is responsible to set up RTUs for temporary heating/cooling, including providing temporary thermostats, if needed.

General Scope of Work Notes for Novar Installers:

- Dick's Sporting Goods New Construction stores are construction sites. The jobsite working hours are 7:00 AM - 3:30 PM only. Any requested deviation by the GC to this schedule must come to the Novar Project Manager to be submitted for approval by the Dick's Sporting Goods Construction Manager.
- Novar Installer to check in with Dick's Sporting Goods GC one week prior to each visit.
- Novar installers must provide their own lifts and ladders.
- QAT including Deficiency List must be complete prior to requesting telephone checkout from Novar Programmer. Submit completed QAT via email to Novar Project Manager, Project Coordinator and Programmer at the time of TCO request.

Novar's scope of work for the Phase One (rough-in trip):

- Novar will arrive onsite (5) weeks prior to construction completion to install the low voltage cabling. Novar Project Manager to coordinate with General Contractor to secure this date.
- Novar to install the cables (homerun) from the Novar panel inside the Square D switchgear to the Outdoor Sensor Assembly (OSA) and leave them coiled up inside an RTU in order to facilitate the installation of the OSA on the RTU. The OSA has the Outdoor Temperature Sensor, Outdoor Humidity Sensor, and Outdoor Light Sensor. Both ends of the cables will be left coiled up near their final location. The cables will be terminated by Novar upon Novar's Termination/QAT trip. Roof penetration (if required) is by others.
- Novar to install the cable (homerun) from the Novar panel in the Square D switchgear global sensors to the show window sensors, data room sensor, unit heater receiving area sensor, etc. The EC must provide all required conduit and all single gang boxes. All cables will be left coiled up near their final location. The cables will be terminated by Novar upon Novar's Termination/QAT trip.
- Novar to install the low voltage communication cable (homerun) inside the conduit provided by the EC from the Novar panel to the Novar provided kWh main meter. Novar will make all low voltage terminations on the low voltage terminal strip in the Square D switchgear as well as low voltage communication wiring terminations on the meter.
- Novar to install the communication cable (daisy chain) for each Lennox RTU. The EC must provide 3/4" conduit if required. Both ends of the communication cables will be left coiled up near their final location. The cables will be terminated by Novar upon Novar's Termination/QAT trip.
- Novar to install the zone temperature sensor cable for each Lennox RTU. The EC must provide the 3/4" conduit and single gang box, and coordinate with the Mechanical Contractor on the proper location and mounting heights. Both ends of the communication cables will be left coiled up near their final location. The cables will be terminated by Novar upon Novar's Termination/QAT trip.
- Novar to install zone CO2 sensor cable for all RTUs. The EC must provide the 3/4" conduit and single gang box, and coordinate with the Mechanical Contractor on the proper location and mounting heights. Both ends of the communication cables will be left coiled up near their final location. The cables will be terminated by Novar upon Novar's Termination/QAT trip.
- Novar to install one cable (homerun) from the Tyco Security Panel to the Novar panel. Both ends of the cables will be left coiled up near their final location. Cable is for the Site Emergency contact.
- Novar to install the communication cable between panels in the main switch gear (panels A, C and F) to the remote panel BB. The EC must provide the 3/4" conduit stub ups at both panel locations. Both ends of the cables will be left coiled up near their final location. The cables will be terminated by Novar upon Novar's Termination/QAT trip.

Novar's scope of work for Phase Two (Terminate/Startup & Remote Commissioning, QAT)

- Novar is scheduled to arrive two weeks prior to the Construction Completion date. Novar Project Manager to coordinate with General Contractor to secure this date. The Ethernet (T1) must be active at this time; otherwise, Novar will not be able to complete our work and will have to return.
- The EC must be available onsite at this time in order to correct any potential wiring issues that may have occurred.
- Novar to terminate both ends of the OSA and mount the mast and sensors per the Novar EMS drawings.
- Novar to terminate both ends of the global sensors to the show window sensors, data room sensor, unit heater receiving area sensor, etc. and mount to the single gang box provided by the EC.
- Novar to terminate both ends of the low voltage communication cable for each Lennox RTU at the Prodigy Board and the XCM20, set ECTO parameters, and take over control of the RTU's.
- Test and Balance Contractor to call Novar during their T&B testing to set minimum outdoor damper percentage.
- Novar to terminate the low voltage communication cable from the Novar provided Meter to the XCM20. Meter will be addressed, setup, and the CT installation will be verified at this time. The EC must be available at this time in order to make any corrections necessary.
- Novar to terminate both ends of the communication cable for the Square D Master Lighting Controller and the remote BB panel and program the NF3500G4 controller per the site specific lighting zone schedule located on the Electrical drawings E5.1.
- Novar to terminate the wiring to the Tyco Security Panel to the XCM20. Tyco to make the connection from the Novar panel to the Tyco Site Emergency contact in the Tyco panel.
- Novar to commission the Novar system, Novar provided Meter, Square D Lighting Controllers (per the schedule listed on Electrical drawings), Lennox RTU, ensure all sensors are reading properly, and test the Security Panel interface (in conjunction with the Store Manager or Security company).
- Novar to "color-dot" the controlled breakers by zone, and leave a legend affixed to the panel door of the Novar panel in the Square D switchgear. (Legend to match legend shown on Novar QAT)
- Training of the store manager on the Novar system is not included. This is to be done by the Dick's Sporting Goods Construction Project Manager typically one week after staples date.

XCM.20

Description: Executive Controller
Executive Powered from: BMS-1 Location: Electrical Room (Power Wall Integrated)

Note	No.	Comm Ports	Type	Drawing Detail ID
	1		RS-485	
2	2	NovarNet (To LSE)	RS-485 Prop.	1
2	3	BACnet	RS-485	1
2	4	BACnet (LCD Dedicated)	RS-485 Prop.	2
	5	Modbus RTU (Sq-D Powerlink)	RS-485	1
2	6	Modbus (E-Mon Metering)	RS-485	3

No.	LAN	IP	Drawing Detail ID
1	Customer		
2			
	RS-232	Type	
1			
	LON	Type	
1			

Notes:
1. /
2. Reference Novar Powerwall hardware installation drawings.

Minio-1

Description: Used in conjunction with XCM.20 Executive Controller Address: 31
Controller Powered from: BMS-1 Location: Electrical Room (Power Wall Integrated)
Loads Powered from: BMS-2

Point Description

Note	No.	Universal Inputs	Type	Range	Drawing Detail ID
	1	Outdoor Temperature	4-20 MA	-40-120 F	3
	2	Outdoor Humidity	4-20 MA	0-100%	3
	3	Outdoor Photocell	4-20 MA	0-300 FC	3
	4	Vest./Display Window-1 Temperature	4-20 MA	0-100%	5
	5	Vest./Display Window-2 Temperature	4-20 MA	20-120 F	6
	6	Receiving Temperature	4-20 MA	20-120 F	6
		Digital Inputs			
2	1	ADR (Utility)	Dry	Pulse	3
2	2	Phase Loss	Dry	On/Off	3

No.	Digital Outputs	Type	Range	Drawing Detail ID	Note
1	Receiving Unit Heater	24 VAC	On/Off	7	1
2	Reserved	24 VAC	On/Off		1
3	Reserved	24 VAC	On/Off		1
4	Reserved	24 VAC	On/Off		1
5	Reserved	24 VAC	On/Off		1
6	Reserved	24 VAC	On/Off		1
	Analog Outputs				
1					
2					

Notes:
1. Fail closed.
2. Reference Novar Powerwall hardware installation drawings.

Minio-2

Description: Used in conjunction with XCM.20 Executive Controller Address: 32
Powered from: BMS-1 Location: Electrical Room (Power Wall Integrated)

Point Description

Note	No.	Universal Inputs	Type	Range	Drawing Detail ID
	1	Vest./Display Window-3 Temperature	4-20 MA	20-120 F	6
	2	Vest./Display Window-4 Temperature	4-20 MA	20-120 F	6
	3	Vest./Display Window-5 Temperature	4-20 MA	20-120 F	6
	4	Data / AV Room Temperature	4-20 MA	20-120 F	6
1	5	Setpoint Feedback Dim-1	0-10 VDC	0-100%	4
1	6	Setpoint Feedback Dim-2	0-10 VDC	0-100%	4
		Digital Inputs			
	1	Security Panel Contact	Dry	On/Off	7
	2				

No.	Digital Outputs	Type	Range	Drawing Detail ID	Note
1	N/A				
2	N/A				
3	N/A				
4	N/A				
5	N/A				
6	N/A				
	Analog Outputs				
1	Light Dimming-1 Sales-1	0-10 VDC	0-100%	4	1
2	Light Dimming-2 Sales-2	0-10 VDC	0-100%	4	1

Notes:
1. Reserved for light dimming application.

Minio-3

Description: Used in conjunction with XCM.20 Executive Controller for Light Dimming Sitee Only Address: 33
Powered from: BMS-1 Location: Electrical Room (Power Wall Integrated)

Point Description

Note	No.	Universal Inputs	Type	Range	Drawing Detail ID
	1				
	2				
	3				
	4				
1	5	Setpoint Feedback Dim-3	0-10 VDC	0-100%	4
1	6	Setpoint Feedback Dim-4	0-10 VDC	0-100%	4
		Digital Inputs			
	1				
	2				

No.	Digital Outputs	Type	Range	Drawing Detail ID	Note
1	N/A				
2	N/A				
3	N/A				
4	N/A				
5	N/A				
6	N/A				
	Analog Outputs				
1	Light Dimming-3 Pri. SideLight	0-10 VDC	0-100%	4	1
2	Light Dimming-4 Sec. SideLight	0-10 VDC	0-100%	4	1

Notes:
1. Reserved for light dimming application.

NOVAR BILL OF MATERIAL (FIELD)

* Quantities Vary. ^ As Required. ~ Alternate.

QTY	P/N	DESCRIPTION
		Base Field Installation Package
1	780652000	Outdoor Sensor Assembly (OSA) w/Veris Humidity Sensor, ALS-300, OTS/2, with Mounting Bracket
7*	712003000	WTS-10 Zone Temperature Sensor, 20 to 120'F, High Profile (4-20mA)
7*	732900000	FTS-BPL Zone Temperature Sensor Mounting Plate
1	XCM-LCD-C	XCM Override Panel, LCD Display, Color Screen
1^	SG-785	Terminating Resistor, Novar Comm Trunk
1^	PSSR-SC24	24 VDC power supply, 1,3 Amp; 120 VAC primary; track mount
		RTU
		Note: Space Temperature Sensors, Temperature/Humidity Sensors provided by Lennox
*	87N54	Telaire CO2 Sensor, 0-2000 PPM (0-10VDC & 4-20mA)
*	94L60	Space temperature Sensor
*	21W06, 101046	Space temperature and RH Sensor
		UNIT/Cab Heater
*^	712003000	WTS-10 Zone Temperature Sensor, 20 to 120'F, High Profile (4-20mA)
*^	732900000	FTS-BPL Zone Temperature Sensor Mounting Plate
*^	50041364-001	RIBT2401B Hi/Low Separation SPDT 20A, 24 & 120VAC Coil
		Light Dimming Installation Accessories
		*** Below Material Recommended for Signal Cable Runouts. 1 zone quantity***
20~**	M4-6	6mm Terminal Block
2~**	BAM2	Terminal Block End Stop
1~**	FEM6	6mm End Plate / Spacer
1~**	770003000	DIN Rail mounting track, 9.25" length
1~**	770014000	Metal Enclosure, 12 x 12 x 6
		Cable Type
4	33201001	18/2 AWG BACnet Cable, 1000' reel
1	709022000	20 AWG 2/C STP & 18 AWG 2/C UTP, CMP, Plenum, 300V, Beige, 1000' reel, Windy City Wire # NOVCOMBO
1	709024000	Novar 18/9 AWG Stranded Cable, 500' reel, Plenum Rated

NOVAR BILL OF MATERIAL (FACTORY INSTALLED)

* Quantities Vary. ^ As Required. ~ Alternate.

QTY	P/N	DESCRIPTION
		XCM.20 Base Application
1	XCM20-B-F-U-MB	XCM20 Data Server, BACnet MS/TP, Fox, User Interface, MODBUS RTU, S RS-485
1	736005150	LSE-15 Logic One System Enhancer for 15 IMC
2	737200000	MINIO Remote Input/Output Module, 6 UI, 2DI, 6 DO, 2 AO
1	PSH40AB10	Power Supply, 40VA, Secondary Circuit Breaker, 120:24VAC, with two 120VAC convenience outlets.
2	TR75VA004	Transformer, 75VA, 120/208/240/480:24 2 hubs + foot mount, Circuit Breaker
1	E23C6	Veris Enercept kWh Meter
3	E6830502	CT,Rogowski,12",300mm,L,600V,5kA. Rope CT
1	V-AH04	Veris AH04 Fuse Pack with three leads, red/brown/yellow. Field install .1 amp fuses.
1	874000000	Symcom Multi Voltage Phase Loss Monitor
1	770003000	DIN Rail mounting track, 9.25" length
		Light Dimming Application
1	737200000	MINIO Remote Input/Output Module, 6 UI, 2DI, 6 DO, 2 AO
4*	LDIM2	Dimming Module 0-10 VDC Output. .5 amp
2*	MK7-B-CCF-0/10	Indoor PhotoCell. 0-100 FC, 0-10 VDC
1	TR75VA004	Transformer, 75VA, 120/208/240/480:24 2 hubs + foot mount, Circuit Breaker

FOR QUESTIONS REGARDING THE INSTALLATION DRAWINGS, CALL THE PROJECT MANAGER, CODY HATCH AT 800-348-1235.

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Cleveland, OH 44131
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LEGEND

- (#) NOTE—THIS SHEET
- (1)— DEVICE CATEGORY
- (#) DETAIL: DEVICE ID NUMBER OVER DEVICE CATEGORY NUMBER
- WIRE ID
- DESIGNATED WIRE SPLICE
- SECURED SPARE CONDUCTOR FOR FUTURE USE

WIRE/CABLE TYPES

ALL TYPES MAY NOT APPLY.

- (A) 22/2 AWG SHIELDED GROUND * BELDON 8761
- (B) 22/3 AWG SHIELDED GROUND * WINDY CITY 004330
- (C) 18/2 AWG SHIELDED GROUND * HONEYWELL 3322
- (D) 18/9 AWG STRANDED CABLE PLENUM RATED
- (E) LINE VOLTAGE WIRING IN CONDUIT
- (F) 20/2 AWG SHIELDED AND 18/2 AWG, * BELDEN 9155
- (G) 12 TO 18 AWG STRANDED WIRE * THHN.

* OR EQUIVALENT.

LOW VOLTAGE CABLING REQUIREMENTS:

1. WIRE SPLICES ARE UNACCEPTABLE.
2. THE COMMUNICATIONS BUSS WILL BE TERMINATED AT THE CONTROLLER.
3. INSTALLED NEATLY AND CONCEALED WITHIN THE BUILDING STRUCTURE.
4. SLEEVED IN CONDUIT UP TO CEILING OR BAR JOIST.

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Email: mail@mchenryassociates.com
Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

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GOLF GALAXY

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

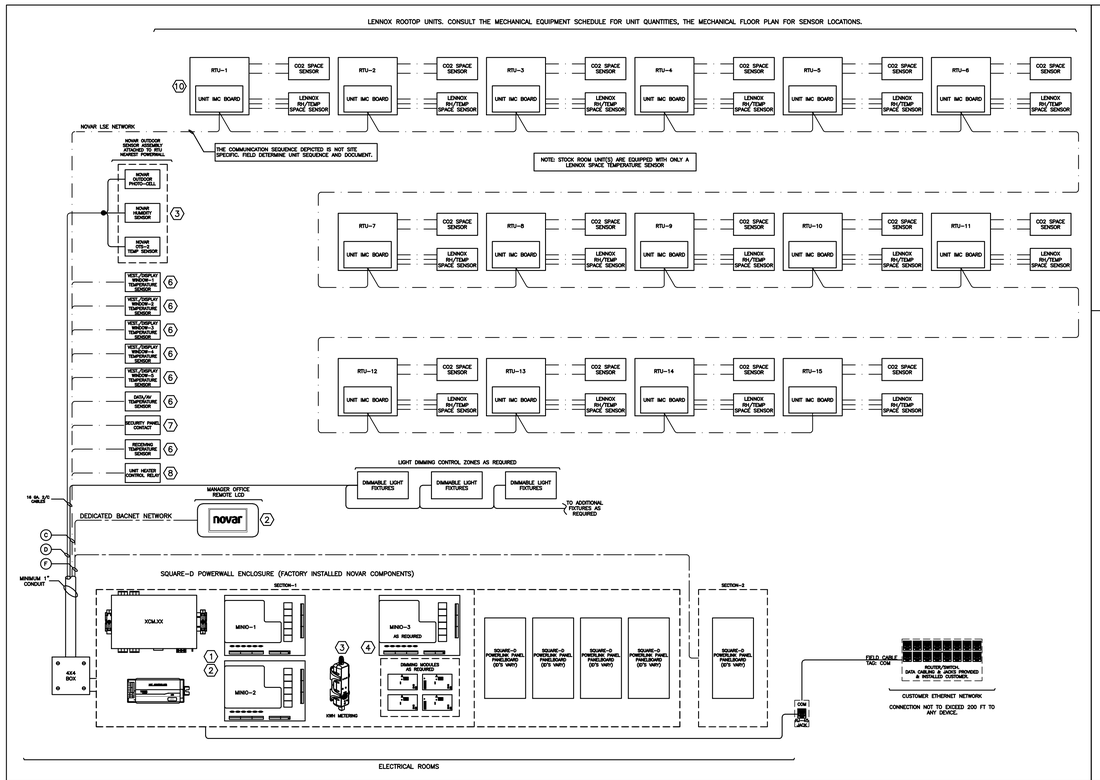
PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

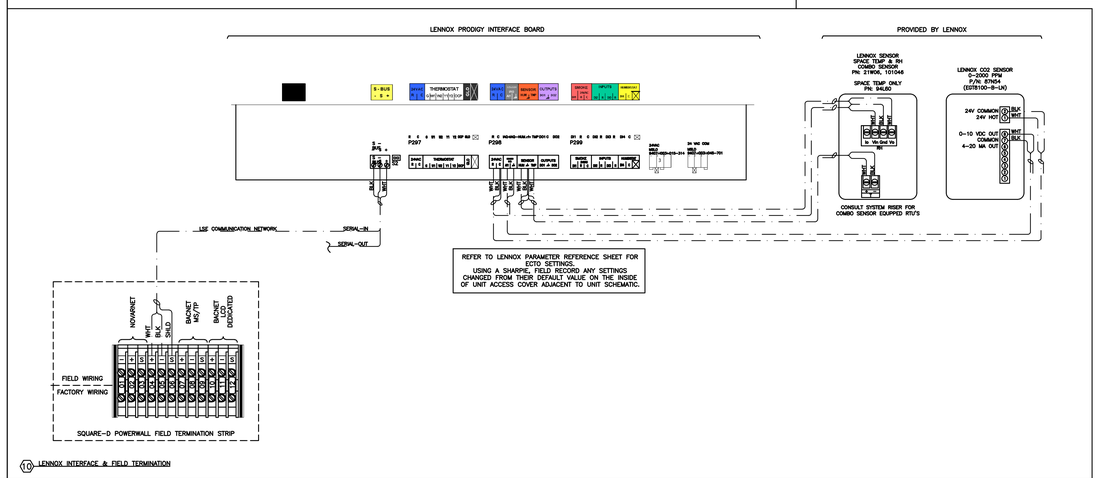
DRAWING:
EMS NOTES

SHEET NUMBER:
EM1.0

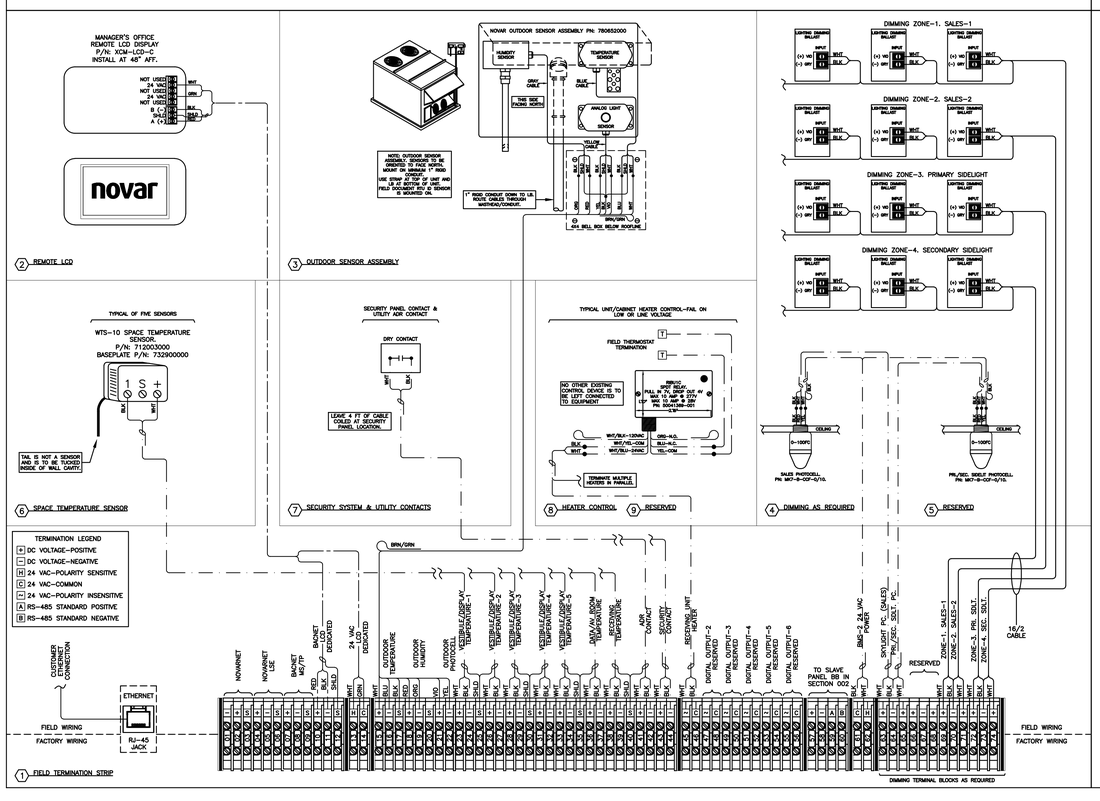
Mar 24, 2021 - 16:33:54 DWG Name: G:\Jobs\Fox\GOLFX FL Port St Lucie\12033_EM01.0.dwg Updated By: mdavis

NOVAR INSTALLATION DETAILS

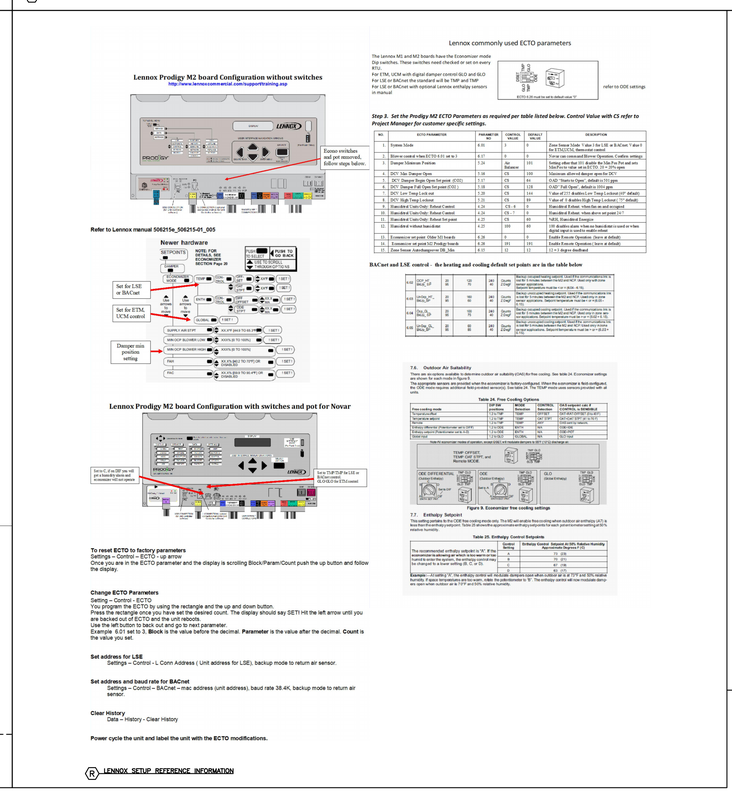




10 LENNOX INTERFACE & FIELD TERMINATION



2 REMOTE LCD
3 OUTDOOR SENSOR ASSEMBLY
6 SPACE TEMPERATURE SENSOR
7 SECURITY SYSTEM & UTILITY CONTACTS
8 HEATER CONTROL
9 RESERVED
4 DIMMING AS REQUIRED
5 RESERVED
1 FIELD TERMINATION STRIP



R LENNOX SETUP REFERENCE INFORMATION

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Florida Business #0005282

WIND DATA

DESIGN OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT RESTRAINT SYSTEMS FOR WIND FORCES SPECIFIC FOR THIS PROJECT LOCATION SHALL BE BY MASON INDUSTRIES, INC. OR EQUAL MANUFACTURER AND AS REQUIRED FOR ALL APPLICABLE CODES. REFER TO STRUCTURAL PLANS FOR ALL WIND COEFFICIENTS.

EXPOSURE C
WIND SPEED = 158 MPH

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

All design materials prepared by Fox Design Group, LLC shall remain the property of Fox Design Group, LLC, which shall also retain all common law, statutory and other rights, including the copyright thereto

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GOLF GALAXY

novar
6060 Rockside Woods Blvd.
Cleveland, OH 44131
216.682.1600
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LEGEND

- # NOTE-THIS SHEET
- 1 DEVICE CATEGORY
- DETAIL: DEVICE ID NUMBER OVER DEVICE CATEGORY NUMBER
- WIRE ID
- DESIGNATED WIRE SPLICE
- SECURED SPARE CONDUCTOR FOR FUTURE USE

WIRE/CABLE TYPES

ALL TYPES MAY NOT APPLY.

- A 22/2 AWG SHIELDED GROUND * BELDON 8761
- B 22/3 AWG SHIELDED GROUND * WINDY CITY 004330
- C 18/2 AWG SHIELDED GROUND * HONEYWELL 3322
- D 18/9 AWG STRANDED CABLE PLENUM RATED
- E LINE VOLTAGE WIRING IN CONDUIT
- F 20/2 AWG SHIELDED AND 18/2 AWG, * BELDEN 9155
- G 12 TO 18 AWG STRANDED WIRE * THHN.

* OR EQUIVALENT.

LOW VOLTAGE CABLING REQUIREMENTS:

1. WIRE SPLICES ARE UNACCEPTABLE.
2. THE COMMUNICATIONS BUSS WILL BE TERMINATED AT THE CONTROLLER.
3. INSTALLED NEATLY AND CONCEALED WITHIN THE BUILDING STRUCTURE.
4. SLEEVED IN CONDUIT UP TO CEILING OR BAR JOIST.

GOLF GALAXY
GATLIN PLAZA
PORT ST. LUCIE, FL

PROJECT NUMBER:	01168
NO. ISSUE	DATE
BID-PERMIT	03-26-21

DRAWING:
EMS DETAILS

SHEET NUMBER:
EM2.0

Mar 24, 2021 - 16:39:50 DWG Name: C:\Users\Fox\GoogleDrive\FOX Drive\FOX FL Port St Lucie\12639_EM02.0.dwg Updated By: mdavis