LEHIGH ACRES PARK AND RIDE FACILITY

LEE COUNTY, FLORIDA

GENERAL NOTES:

PROJECT DESCRIPTION: 7928 G.S.F. ONE STORY, TRANSFER STATION COMPRISING OF AN BUILDING AND 4 BUS BAYS
TYPE - II B CONSTRUCTION
USE AND OCCUPANCY CLASSIFICATION:
PROPOSED FINISH FLOOR ELEVATION:

PROJECT ZONING:

PROJECT STRAP #: 304427090000A001A

PROJECT ADDRESS: 1121 VILLAGE LAKES BLVD, LEHIGH ACRES, FLORIDA 33972

THESE PLANS WERE PREPARED TO COMPLY WITH:
THE 2020 FLORIDA BUILDING CODE, BUILDING, 7TH EDITION
THE 2020 FLORIDA BUILDING CODE, ACCESSIBILITY, 7TH EDITION
THE 2020 FLORIDA BUILDING CODE, PLUMBING, 7TH EDITION
THE 2020 FLORIDA BUILDING CODE, MECHANICAL, 7TH EDITION
THE 2017 NATIONAL ELECTRIC CODE, (NFPA 70)
THE 2020 FLORIDA FIRE PREVENTION CODE, (2018 NFPA 1, FIRE CODE AND 2018 NFPA 101, LIFE SAFETY CODE)

NOTES TO THE PLANS EXAMINER:

- THERE SHALL BE NO HIGH PILED COMBUSTIBLE STOCK.
- THIS BUILDING IS ACCESSIBLE TO THE PHYSICALLY HANDICAPPED.
- MAXIMUM ALLOWABLE HEIGHT PER CITY OF FORT MYERS CODE OF ORDINANCES = 45'-0"
  PROPOSED MAXIMUM CANOPY HEIGHT = 28'
- MAXIMUM NUMBER OF STORIES = 3 PER 2020 FBC TABLE 504.4
  PROPOSED STORIES = UL
- MAXIMUM ALLOWABLE AREA PER STORY PER 2020 FBC TABLE 506.2 = UL
  PROPOSED MAXIMUM AREA PER STORY = 9,607 S.F. (SEE BREAKDOWN THIS SHEET)

EGRESS COMPONENTS:

ALL ENTRY / EXIT DOORS AR 3'-0" WIDE (34" CLEAR).
EGRESS CAPACITY = 170 OCCUPANTS AT EACH DOOR (.2" PER OCCUPANT PER 2020 FBC 1005.3.2)

MAXIMUM EXIT ACCESS TRAVEL DISTANCE = 200' PER 2020 FBC TABLE 1017.2 (NON-SPRINKLERED)
MAXIMUM TRAVEL DISTANCE = 27'-3" REFER TO OVERALL FLOOR PLANS FOR EGRESS DISTANCES
THIS PROJECT IS ACCESSIBLE TO THE PHYSICALLY HANDICAPPED
FIRE EXTINGUISHERS ARE PROVIDED PER NFPA 10

PROJECT LOCATION

GROSS AREA BREAKDOWN

FIRST FLOOR:

BUILDING
LOUNGE: 199 S.F.
TOILET: 54 S.F.
ELECTRICAL: 39 S.F.
I.T.: 39 S.F.
CUSTODIAL: 16 S.F.
MENS RESTROOM: 111 S.F.
WOMENS RESTROOM: 135 S.F.

COVERED OUTDOOR SEATING: 8975 S.F.
UNCOVERED OUTDOOR: 54 S.F.

TOTAL GROSS S.F. INCLUDING BUILDING AND COVERED SEATING AREA: 9622 S.F.

SHEET INDEX

ARCHITECT:

PARKER / MUDGETT / SMITH ARCHITECTS, INC.
2136 McGREGOR BOULEVARD
FORT MYERS, FLORIDA 33901
239.332.1171

STRUCTURAL:

BOB RUDE STRUCTURES
10461 SIX MILE CYPRESS PKWY
FORT MYERS , FLORIDA 33966
239.277.7771

MEP:

TLC ENGINEERING SOLUTIONS
13099 S CLEVELAND AVE SUITE 500
FORT MYERS , FLORIDA 33907
239.275.4240

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REVISIONS

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LEHIGH ACRES PARK AND RIDE

1121 VILLAGE LAKES BLVD., LEHIGH ACRES, FLORIDA 33972

07/01/2022

G001

1 PARTIAL ARCHITECTURAL SITE PLAN
1/16" = 1'-0"

NORTH

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A001

FLORIDA BUILDING CODE - ACCESSIBILITY 7TH EDITION (2020)

THIS PROJECT IS DESIGNED TO BE ACCESSIBLE TO THE PHYSICALLY HANDICAPPED.

FLORIDA BUILDING CODE - PLUMBING 7TH EDITION (2020)

CLASSIFICATION: A-5 528 TOTAL OCCUPANTS (264 MALE OCCUPANTS & 264 FEMALE OCCUPANTS)

	REQUIRED	PROVIDED
WATER CLOSETS: MALE 1/500 = 264/500 = .53 = 1	1	2 (1 WATER CLOSET + 1 URINAL)
WATER CLOSETS: FEMALE 1/500 = 264/500 = .53 = 1	1	2
LAVATORIES: MALE 1/750 = 264/750 = .35 = 1	1	2
LAVATORIES: FEMALE 1/750 = 264/750 = .35 = 1	1	2
DRINKING FOUNTAINS 1 / 1000 = 527 / 1000 = .53 = 1	1	1 HI - LOW
SERVICE SINK	1	1 1 (MOP SINK)

CLASSIFICATION: B 4 TOTAL OCCUPANTS (2 MALE OCCUPANTS & 2 FEMALE OCCUPANTS)

	REQUIRED	PROVIDED
WATER CLOSETS: MALE 1/25 = 4/25 = 0.16 = 1	1	1
WATER CLOSETS: FEMALE 1/25 = 4/25 = 0.16 = 1	1	1
LAVATORIES: MALE 1/40 = 4/40 = 0.1 = 1	1	2
LAVATORIES: FEMALE 1/40 = 4/40 = 0.1 = 1	1	2
DRINKING FOUNTAINS 1/100 = 1/100 = 0.1 = 1	1	1 HI - LO
SERVICE SINK	1	1 (MOP SINK)

2020, 7TH EDITION OF THE FLORIDA FIRE PREVENTION CODE, INCLUDING 2021 EDITIONS NFPA 1 &101 WITH FLORIDA SPECIFIC REQUIREMENTS

THE CANOPY OF THIS FACILITY IS AN "OPEN STRUCTURE" AS DEFINED BY NFPA 101 3.3.271.6

CHAPTER 6 CLASSIFICATION OF OCCUPANCY = ASSEMBLY PER 6.1.2.1
CHAPTER 7 MEANS OF EGRESS
- 7.2.1.2.3.2 DOOR OPENINGS IN A MEANS OF EGRESS SHALL BE A MINIMUM OF 32" CLEAR WIDTH.
- TABLE 7.3.3.1 - EGRESS WIDTH PER OCCUPANT SERVED (DOORS = 0.2 INCHES PER OCCUPANT
- TABLE 7.3.1.2 OCCUPANT LOAD FACTOR, REFER TO THE PLANS FOR THE OCCUPANCY LOADS.
- 7.8 ILLUMINATION OF MEANS OF EGRESS - SEE THE LIFE SAFETY PLAN AND THE ELECTRICAL PLANS FOR EXIT LIGHT LOCATIONS.

FLORIDA BUILDING CODE - BUILDING 7TH EDITION (2020)

CHAPTER 3 - OCCUPANCY CLASSIFICATION: GROUP A-5 ASSEMBLY, WITH AND ACCESSORY GROUP B - BUSINESS OCCUPANCY
CHAPTER 5 - GENERAL BUILDING HEIGHTS & AREAS

TABLE 504:	ALLOWABLE	PROPOSED
BUILDING HEIGHT	UL	+/- 21'-0"
BUILDING STORIES	UL	1
BUILDING AREA PER STORY	UL	9,612 SF

BUILDING AREA BREAKDOWN
592 GROSS SF ENCLOSED BUILDING
9020 GROSS SF UNENCLOSED

CHAPTER 6 - TYPES OF CONSTRUCTION
SECTION 602 - CONSTRUCTION CLASSIFICATION: TYPE II-B
TABLE 601 - FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (TYPE II-B)

	REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME	0	0
BEARING WALLS - EXTERIOR (TABLE 602)	0	0
BEARING WALLS - INTERIOR	0	0
NONBEARING WALLS AND PARTITIONS - EXTERIOR (TABLE 602)	0	0
NONBEARING WALLS AND PARTITIONS - INTERIOR	0	0
FLOOR CONSTRUCTION	0	0
ROOF CONSTRUCTION	0	0

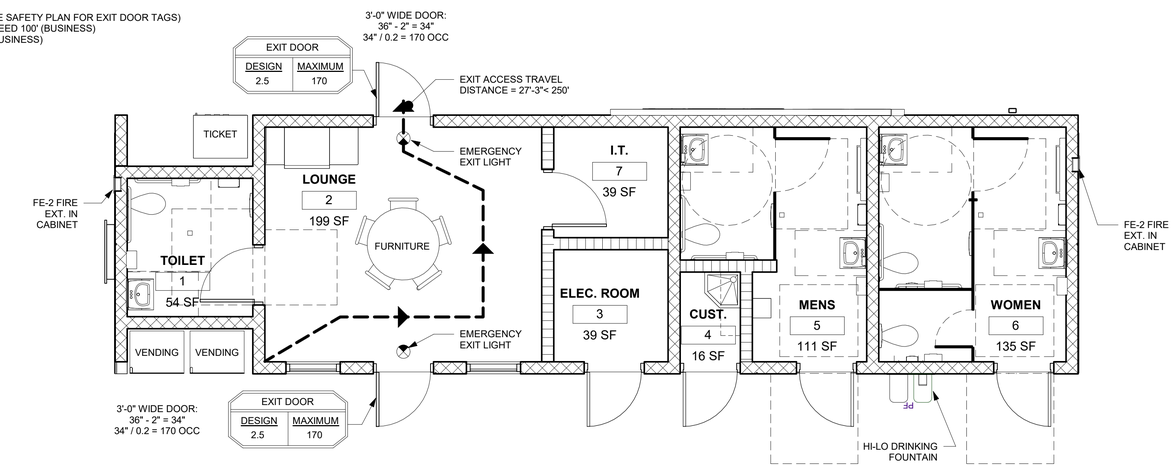
CHAPTER 8 - INTERIOR FINISHES.
TABLE 803.9 - INTERIOR WALLS & CEILING FINISH REQUIREMENTS BY OCCUPANCY

	ALLOWABLE	PROPOSED
ROOMS AND ENCLOSED SPACES	C	A

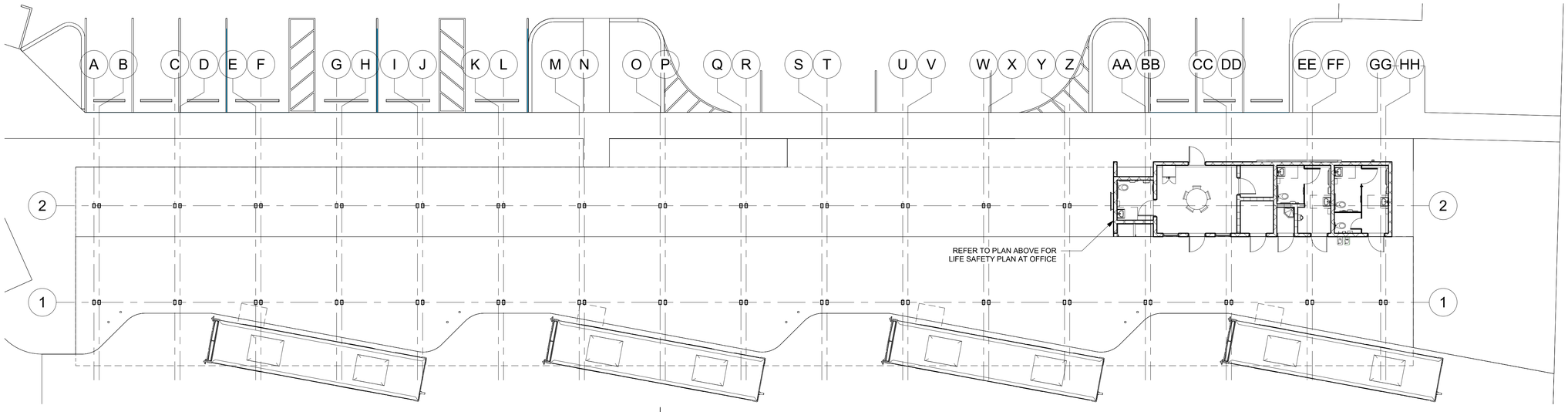
CHAPTER 9 - FIRE PROTECTION SYSTEMS:
PORTABLE EXTINGUISHES SHALL BE PROVIDED PER FBC 906.3.1 (75' MAXIMUM) AND NFPA 10 - REFER TO FLOOR PLANS FOR LOCATIONS

CHAPTER 10 - MEANS OF EGRESS - TABLE 1004 - DESIGN OCCUPANT LOAD = 7 TOTAL BUILDING OCCUPANTS (SEE LIFE SAFETY PLAN)
FUNCTION OF SPACE - SEE LIFE SAFETY PLANS FOR FLOOR AREA IN SF PER OCCUPANT:
- ACCESSORY STORAGE AREAS AND MECHANICAL ROOMS = 300 S.F. GROSS PER OCC
- BUSINESS OCCUPANCY = 100 GROSS S.F. PER OCC

SECTION 1005.1 - EGRESS WIDTH PER OCCUPANT SERVED (SEE LIFE SAFETY PLAN FOR EXIT DOOR TAGS)
TABLE 1014.3 - COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 100' (BUSINESS)
TABLE 1016.2 - EXIT ACCESS TRAVEL DISTANCE (EATD): 300' MAX. (BUSINESS)



1 LIFESAFETY FLOOR PLAN
1/4" = 1'-0"



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

THESE PLANS WERE PREPARED TO COMPLY WITH THE FOLLOWING

THE 2020 FLORIDA BUILDING CODE - BUILDING, 7TH EDITION
THE 2020 FLORIDA BUILDING CODE - ACCESSIBILITY, 7TH EDITION
THE 2020 FLORIDA BUILDING CODE - PLUMBING, 7TH EDITION
THE 2020 FLORIDA BUILDING CODE - MECHANICAL, 7TH EDITION
THE 2020 FLORIDA BUILDING CODE - FUEL GAS, 7TH EDITION
THE 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION, 7TH EDITION
THE 2020 NATIONAL ELECTRICAL CODE
2020, 7TH EDITION OF THE FLORIDA FIRE PREVENTION CODE, INCLUDING 2021 EDITIONS NFPA 1 & 101 WITH FLORIDA SPECIFIC REQUIREMENTS

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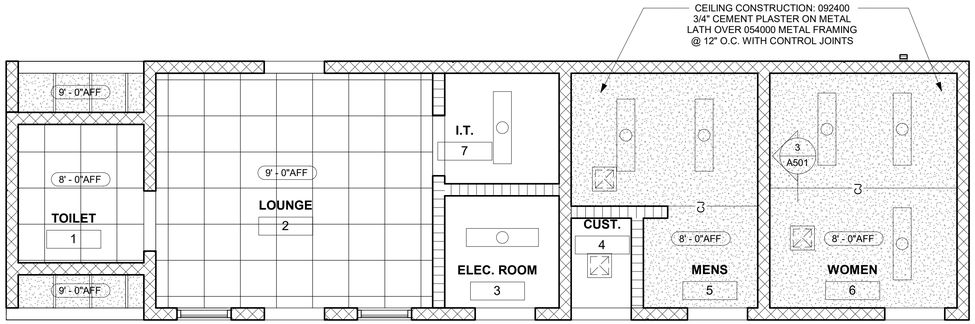
A002



1 REFLECTED CEILING PLAN
1/4" = 1'-0"

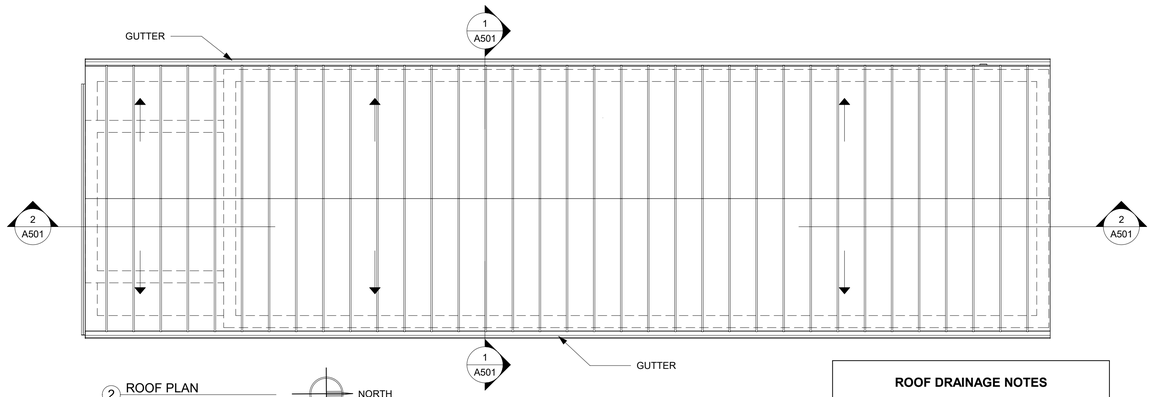
NORTH

REFER TO A401 FOR CANOPY REFLECTED CEILING PLAN

REFLECTED CEILING PLAN LEGEND

095113 SUSPENDED ACOUSTICAL CEILING 2' x 2' GRID.

092400 CEMENT PLASTER CEILING ON METAL LATH



2 ROOF PLAN
1/4" = 1'-0"

NORTH

ROOF DRAINAGE NOTES

PER 2020 FBC - PLUMBING 1106.1: 100 YEAR 1-HOUR RAINFALL = 4.5"

PER 2020 FBC - PLUMBING 1106.2 (1): 4" DIAMETER DOWNSPOUT ACCOMMODATES 4, 140 S.F. OF HORIZONTALLY PROJECTED ROOF??

INTERIOR FINISH SCHEDULE

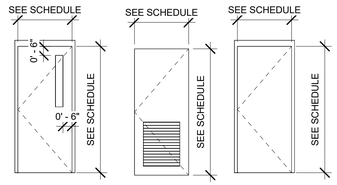
SPACE NUMBER	SPACE NAME	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	REMARKS
1	TOILET	DT	DT	HP	APC	8'-0"	
2	LOUNGE	VCT	R	HP	APC		
3	ELECTRICAL RM	SC	R	HP	-	-	
4	CUSTODIAL	SC	CT	HP	-	-	
5	MEN	SC	CT	HP	CP	8'-0"	
6	WOMEN	SC	CT	HP	CP	8'-0"	
7	I.T.	SC	R	HP / PLY	-	-	PLYWOOD BACKER PANEL UP TO 8'-0"

FLOOR: VCT = VINYL COMP. TILE, SC = SEALED CONCRETE, DT = DECORATIVE CERAMIC TILE
BASE: R = RESILIENT WALL BASE, DT = DECORATIVE CERAMIC TILE BASE, CT = CERAMIC TILE SANITARY COVE
WALLS: HP = HIGH PERFORMANCE PAINT ON CMU, PLY = PLYWOOD BACKER PANEL

CEILING: APC = ACOUSTIC PANEL CEILING,
CP = 092400 3/4" CEMENT PLASTER AND CONTROL JOINTS ON WIRE LATH ON 054000 3-5/8" METAL FRAMING AT 12" O.C.

WINDOW SCHEDULE

WINDOW NO.	WINDOW TYPE	WINDOW GLAZING	WINDOW MATERIAL	WIDTH	HEIGHT	DETAILS SILL	DETAILS WINDOW JAMB	DETAILS HEAD	WINDOW IMPACT TESTING DATA	REMARKS
W1	A	LG-1	HOLLOW METAL	3' - 0"	4' - 6"	1 / A504	1 / A504	1 / A504	1	
W2	A	LG-1	HOLLOW METAL	3' - 0"	4' - 6"	1 / A504	1 / A504	1 / A504	1	

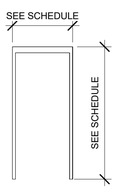


TYPE A:
HOLLOW METAL W/ IMPACT RESISTANT VIEW PANEL

TYPE B:
IMPACT RATED FLUSH HOLLOW METAL DOOR WITH 1/2 LOUVER

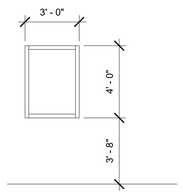
TYPE C:
INTERIOR FLUSH HOLLOW METAL DOOR

DOOR TYPES
1/4" = 1'-0"



TYPE A:
081113 HOLLOW METAL

DOOR FRAME TYPES
1/4" = 1'-0"

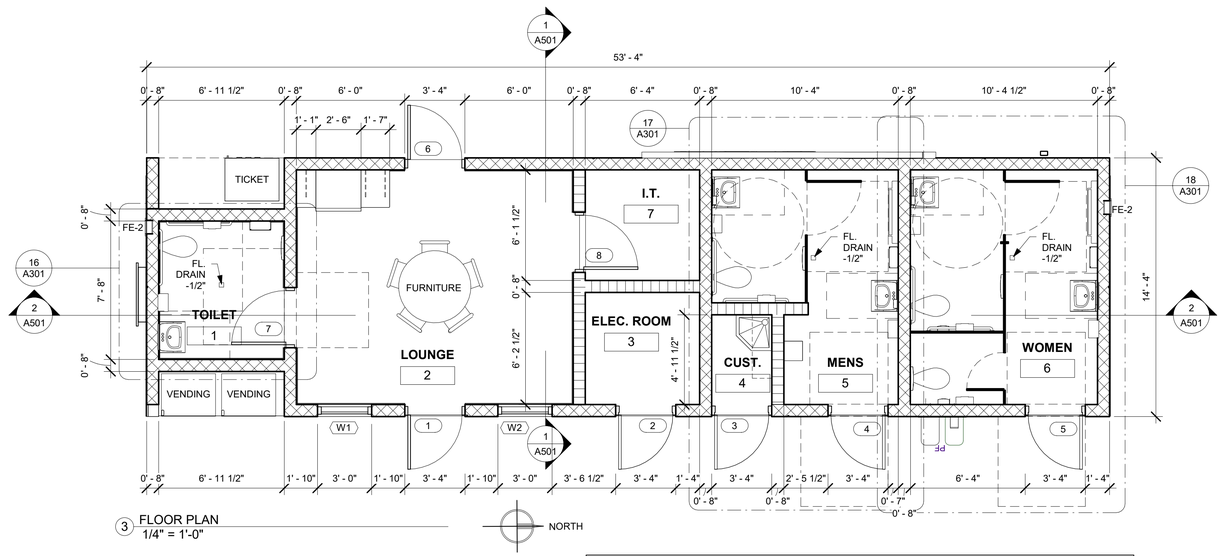


TYPE A:
HOLLOW METAL

WINDOW TYPES
1/4" = 1'-0"

IMPACT TESTING DATA

1. IMPACT RATED HOLLOW METAL DOOR & FRAME, ASSA ABLOY OR LEE COUNTY APPROVED EQUAL, SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOOR WITH PEMKO LV - WSG LOUVER WITH SECURITY GRILLE AND INSECT SCREEN, LARGE MISSLE IMPACT RESISTANT, FLORIDA APPROVAL #: ????



3 FLOOR PLAN
1/4" = 1'-0"

NORTH

FLOOR PLAN LEGEND

042000 8" CMU WITH HORIZONTAL JOINT REINF. AT 16" O.C. AND 072100 FOAMED - IN - PLACE MASONRY INSULATION
033000 EXPOSED CONCRETE BEAMS AND COLUMNS TO HAVE 3/4" CHAMFERED CORNERS

042000 8" CMU WITH HORIZONTAL JOINT REINF. AT 16" O.C. (WITHOUT INSULATION)
033000 EXPOSED CONCRETE BEAMS

101 DOOR NUMBER, REFER TO SCHEDULE

1i WINDOW NUMBER, REFER TO SCHEDULE

104416 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET

NOTE: PER 2017 FBC TABLE 803.11, ALL INTERIOR FINISHES ARE REQUIRED TO BE MINIMUM CLASS "?"

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	DOOR WIDTH	DOOR Height	DOOR Thickness	DOOR GLAZING	DOOR MATERIAL	FRAME DETAILS THRESHOLD	FRAME DETAILS JAMB	FRAME DETAILS HEAD	Frame Type	Frame Material	FRAME THRESHOLD	IMPACT TESTING DATA	REMARKS
1	A	3' - 0"	7' - 0"	0' - 1 3/4"	LG-1	HOLLOW METAL	7 / A504	6 / A504	5 / A504	A	HOLLOW METAL		1	CARD READER
2	B	3' - 0"	7' - 0"	0' - 1 3/4"	-	HOLLOW METAL	7 / A504	6 / A504	5 / A504	A	HOLLOW METAL		1	
3	B	3' - 0"	7' - 0"	0' - 1 3/4"	-	HOLLOW METAL	7 / A504	6 / A504	5 / A504	A	HOLLOW METAL		1	
4	B	3' - 0"	7' - 0"	0' - 1 3/4"	-	HOLLOW METAL	7 / A504	6 / A504	5 / A504	A	HOLLOW METAL		1	
5	B	3' - 0"	7' - 0"	0' - 1 3/4"	-	HOLLOW METAL	7 / A504	6 / A504	5 / A504	A	HOLLOW METAL		1	
6	A	3' - 0"	7' - 0"	0' - 1 3/4"	LG-1	HOLLOW METAL	7 / A504	6 / A504	5 / A504	A	HOLLOW METAL		1	CARD READER
7	C	3' - 0"	7' - 0"	0' - 1 3/4"	-	HOLLOW METAL	4 / A504	3 / A504	2 / A504	A	HOLLOW METAL		1	
8	C	3' - 0"	7' - 0"	0' - 1 3/4"	-	HOLLOW METAL	4 / A504	3 / A504	2 / A504	A	HOLLOW METAL		1	CARD READER

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1121 VILLAGE LAKES BLVD., LEHIGH ACRES, FLORIDA 33972

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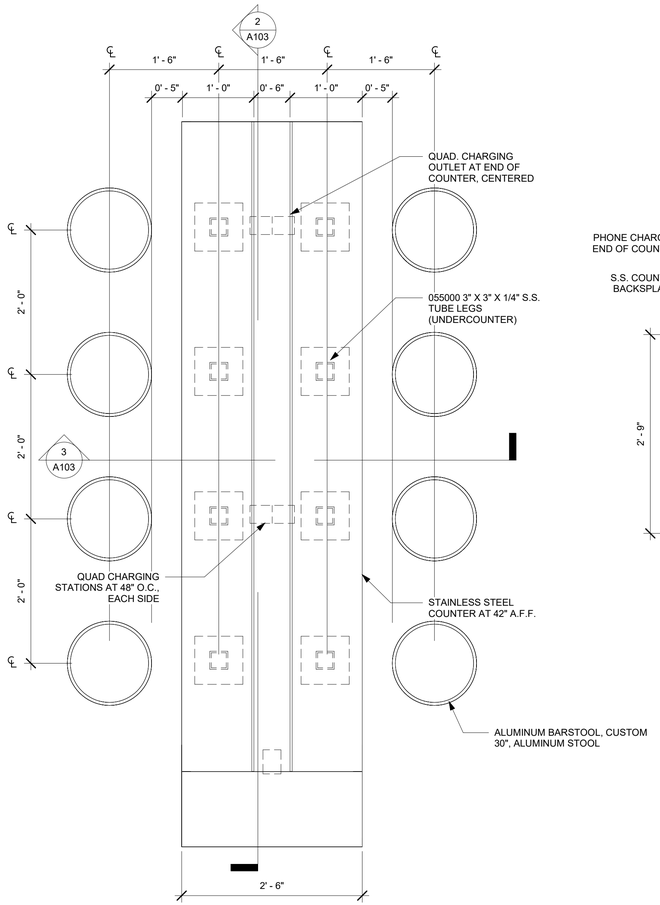
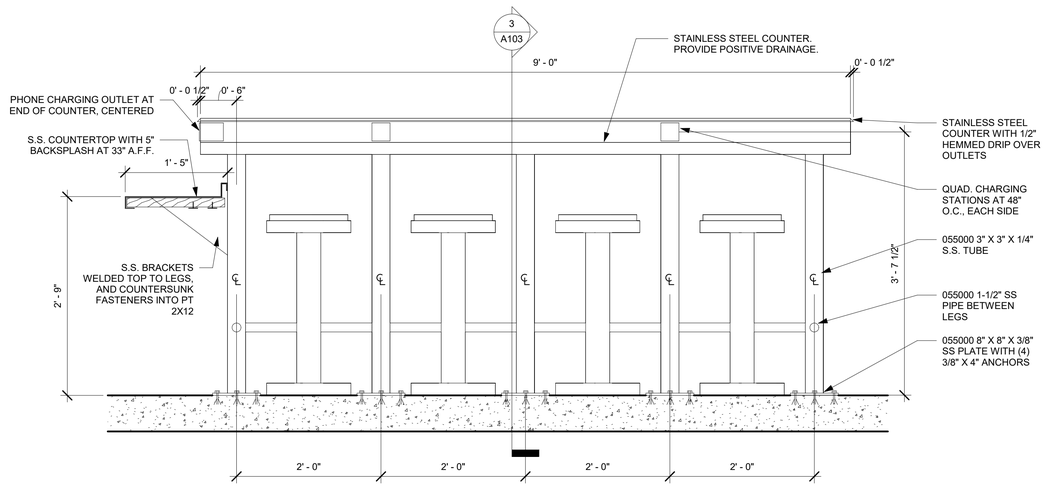
07/01/2022

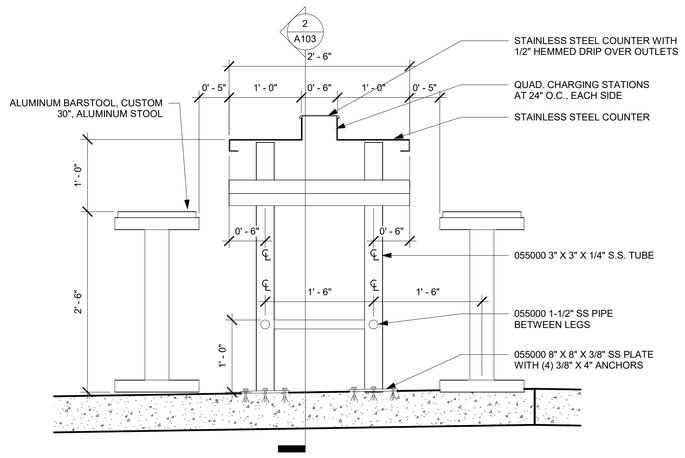
A102



1 DETAIL PLAN AT BAR STOOL SEATING
1" = 1'-0"

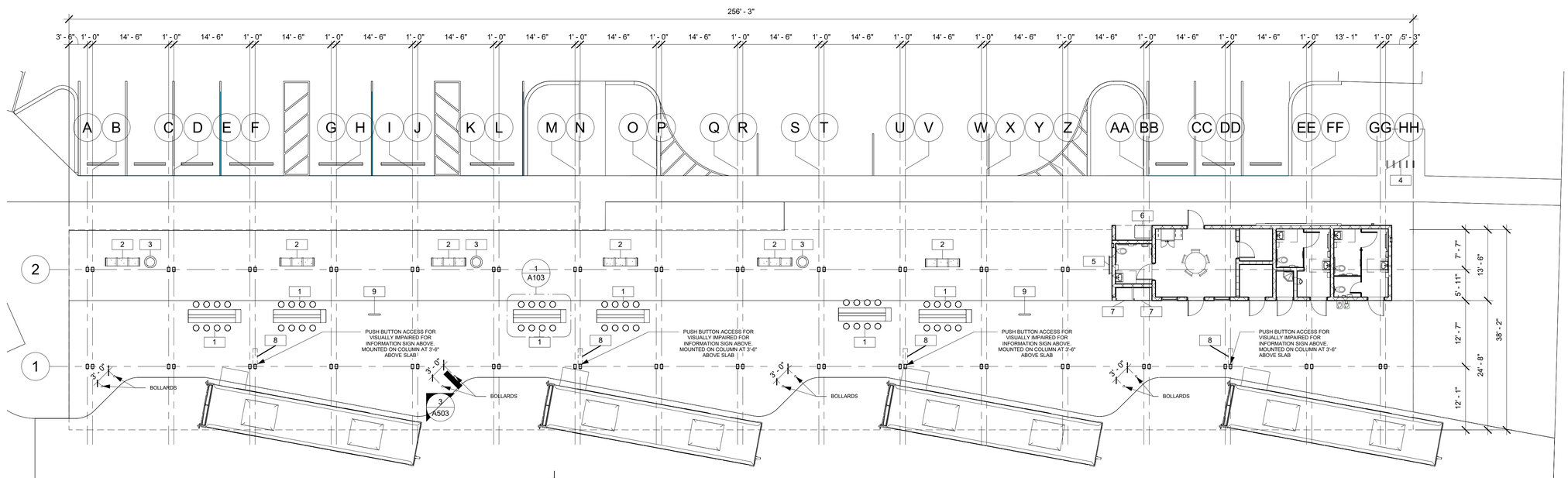


2 SECTION AT BAR STOOL SEATING
1" = 1'-0"



3 SECTION AT BAR STOOL SEATING
1" = 1'-0"

SITE FURNISHINGS	
#	DESCRIPTION
1	HIGH TOP STEEL COUNTER W/ 8 SS ADJUSTABLE BARSTOOLS
2	CONCRETE BENCH
3	CONCRETE WASTE RECEPTACLES 36 GAL.
4	BIKE RACK
5	LCD KIOSK MONITOR
6	FARE BOX
7	VENDING MACHINE (BY OWNER)
8	BUS ROUTE DIGITAL DISPLAY
9	BUS ROUTE SCHEDULE



4 OVERALL FLOOR PLAN
3/32" = 1'-0"

NORTH

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LEHIGH ACRES PARK AND RIDE

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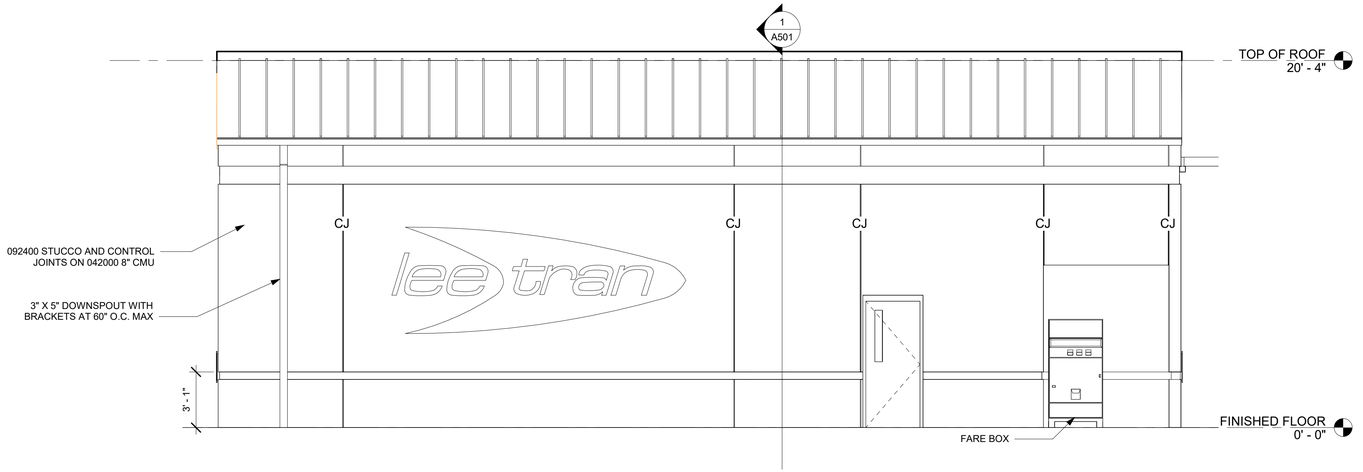
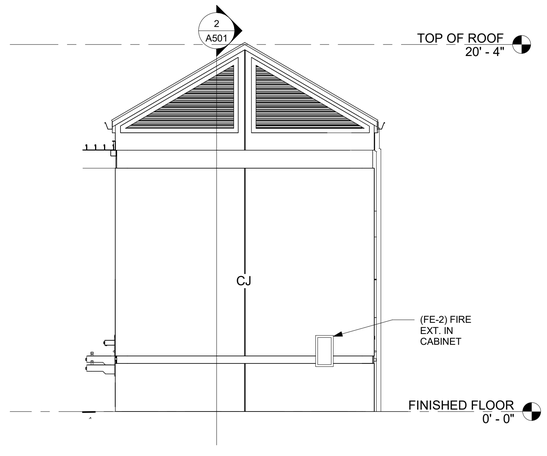
07/01/2022

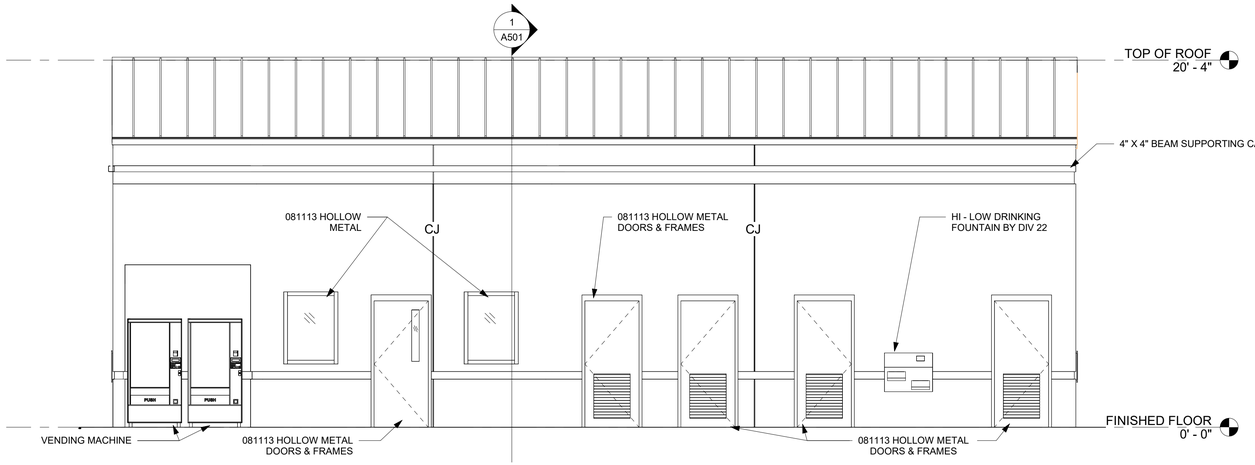
A103



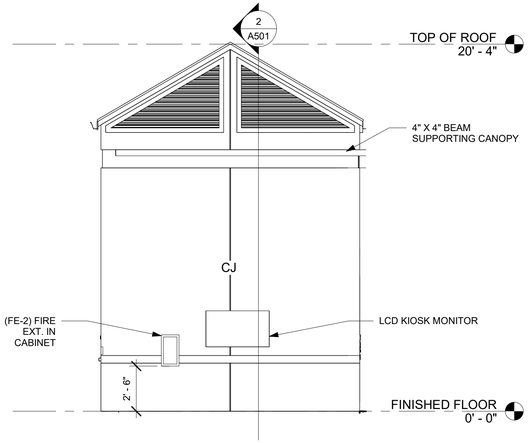
1 EXTERIOR ELEVATION - WEST
1/4" = 1'-0"



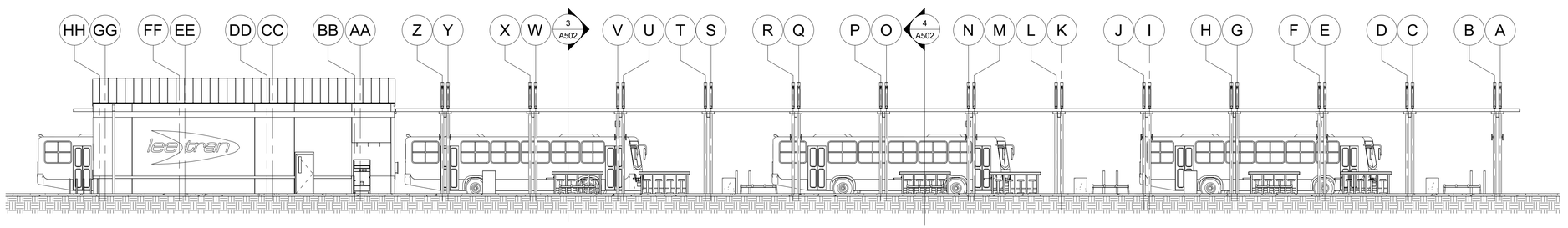
2 EXTERIOR ELEVATION - NORTH
1/4" = 1'-0"



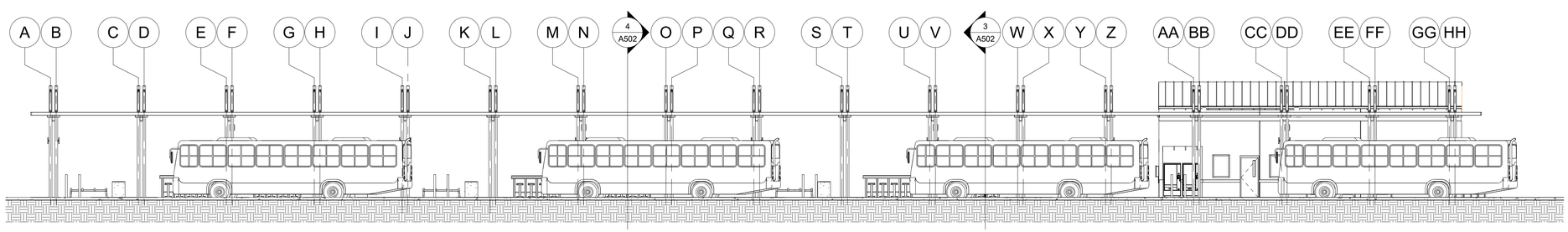
3 EXTERIOR ELEVATION - EAST
1/4" = 1'-0"



4 EXTERIOR ELEVATION - SOUTH
1/4" = 1'-0"



5 WEST CANOPY ELEVATION
3/32" = 1'-0"



6 EAST CANOPY ELEVATION
3/32" = 1'-0"

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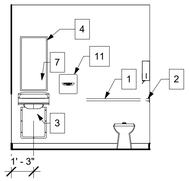
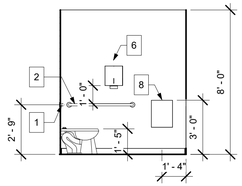
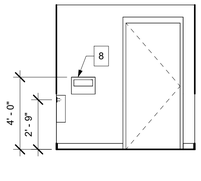
A201



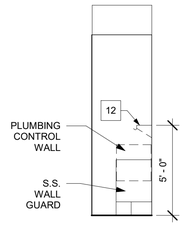
1 TOILET 1
1/4" = 1'-0"



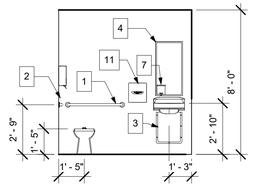
2 TOILET 1
1/4" = 1'-0"



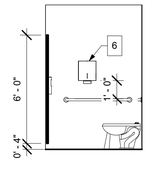
3 TOILET 1
1/4" = 1'-0"



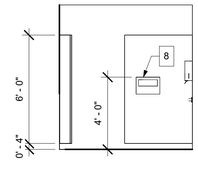
4 CUST. 4
1/4" = 1'-0"



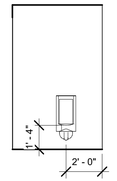
5 MEN 5
1/4" = 1'-0"



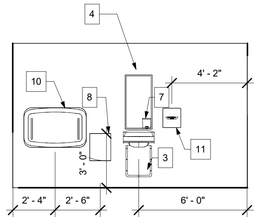
6 MEN 5
1/4" = 1'-0"



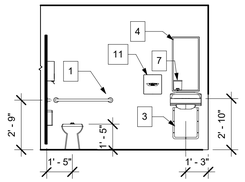
7 MEN 5
1/4" = 1'-0"



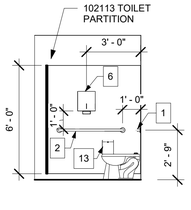
8 MEN 5
1/4" = 1'-0"



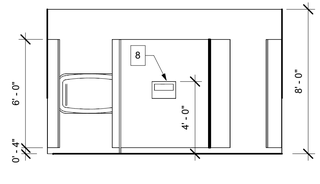
9 MEN 5
1/4" = 1'-0"



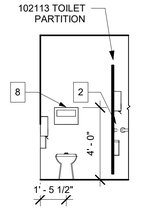
10 WOMEN 6
1/4" = 1'-0"



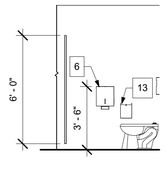
11 WOMEN 6
1/4" = 1'-0"



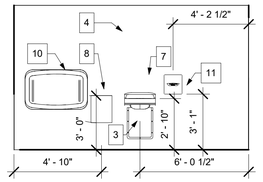
12 WOMEN 6
1/4" = 1'-0"



13 WOMEN 6
1/4" = 1'-0"

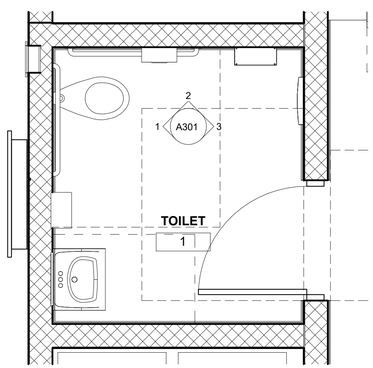


14 WOMEN 6
1/4" = 1'-0"

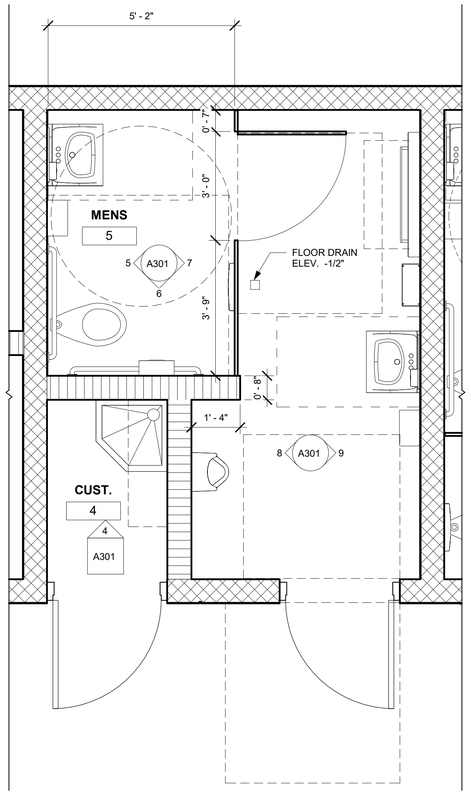


15 WOMEN 6
1/4" = 1'-0"

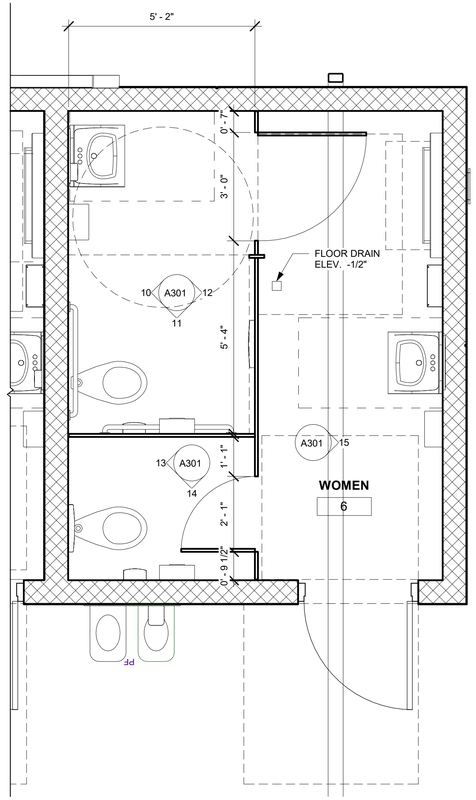
102800 TOILET ACCESSORY...	
MARK	ITEM
1	GRAB BAR - 36"
2	GRAB BAR - 42"
3	PIPE COVER
4	MIRROR
5	HOOK
6	TOILET PAPER DISPENSER
7	SOAP DISPENSER
8	TOILET SEAT COVER DISPENSER
9	SURFACE MTD WASTE RECEPTACLE
10	BABY CHANGING STATION
11	ELECTRIC HAND DRYER
12	UTILITY SHELF
13	SANITARY NAPKIN DISPOSAL



16 ENLARGED TOILET
1/2" = 1'-0"



17 ENLARGED MEN TOILET
1/2" = 1'-0"



18 ENLARGED WOMEN TOILET
1/2" = 1'-0"

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REVISIONS

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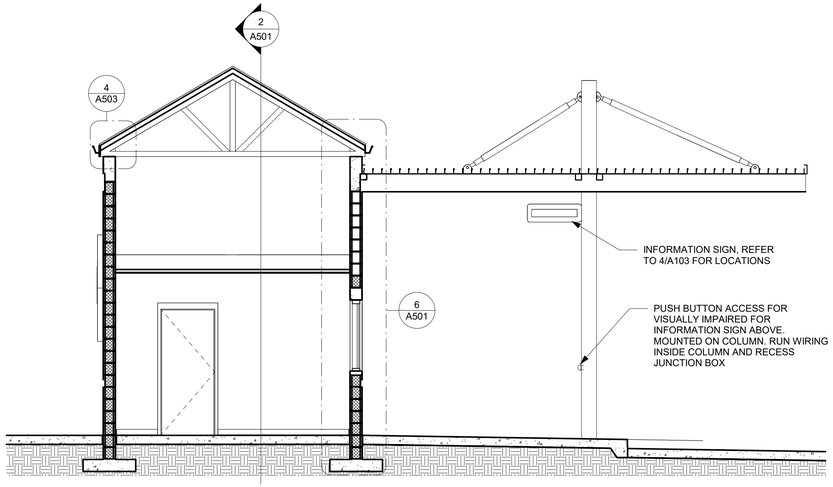
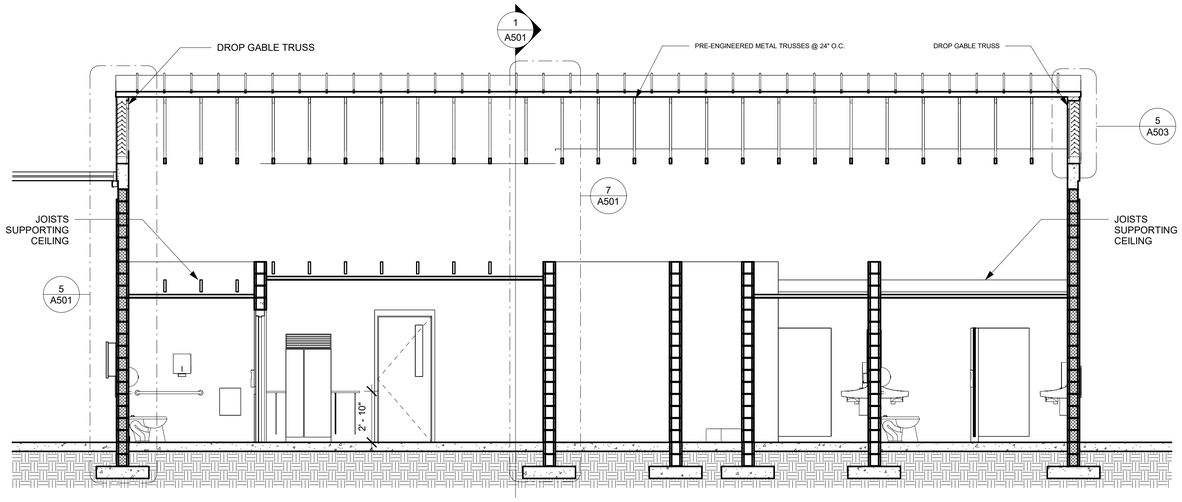
07/01/2022

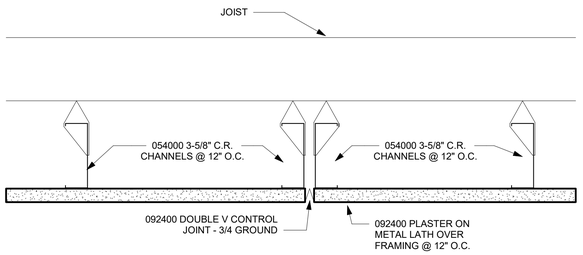
A301



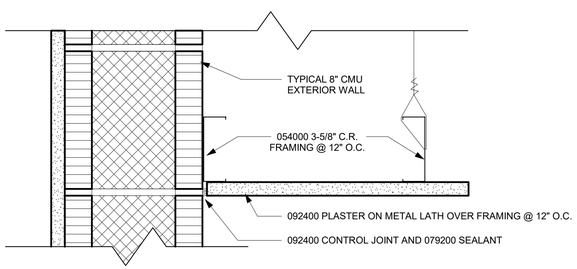
1 BUILDING SECTION
1/4" = 1'-0"



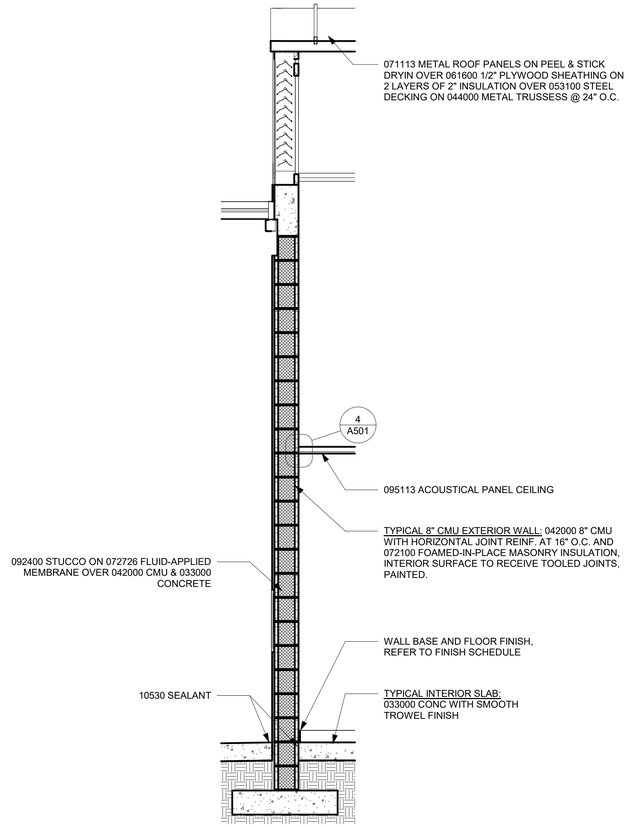
2 BUILDING SECTION
1/4" = 1'-0"



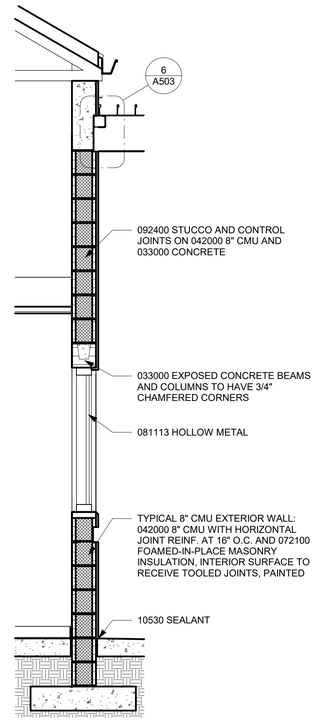
3 CEILING CONTROL JOINT
3" = 1'-0"



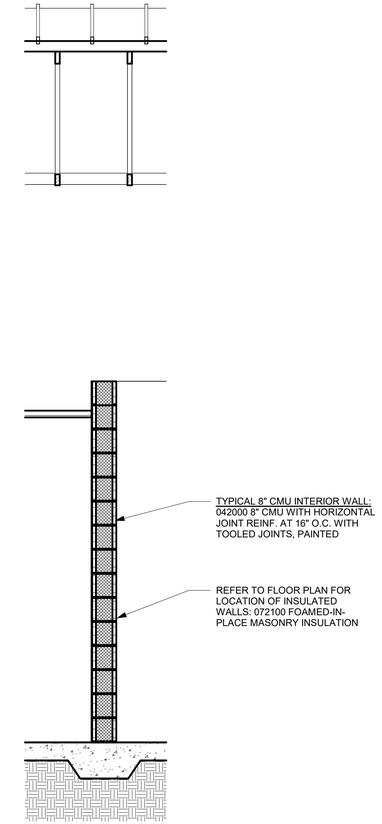
4 CEILING PERIMETER
3" = 1'-0"



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



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



7 INTERIOR WALL SECTION
1/2" = 1'-0"

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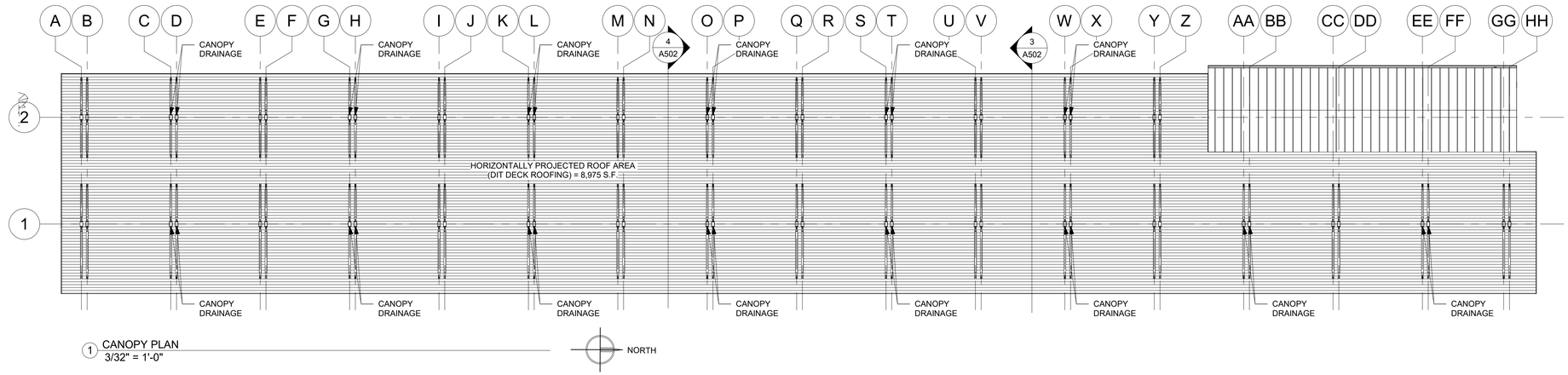
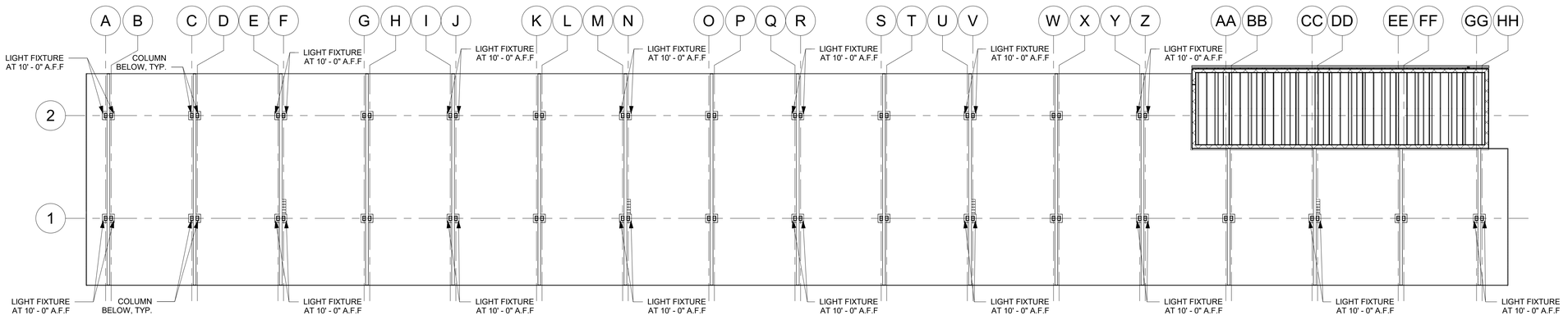
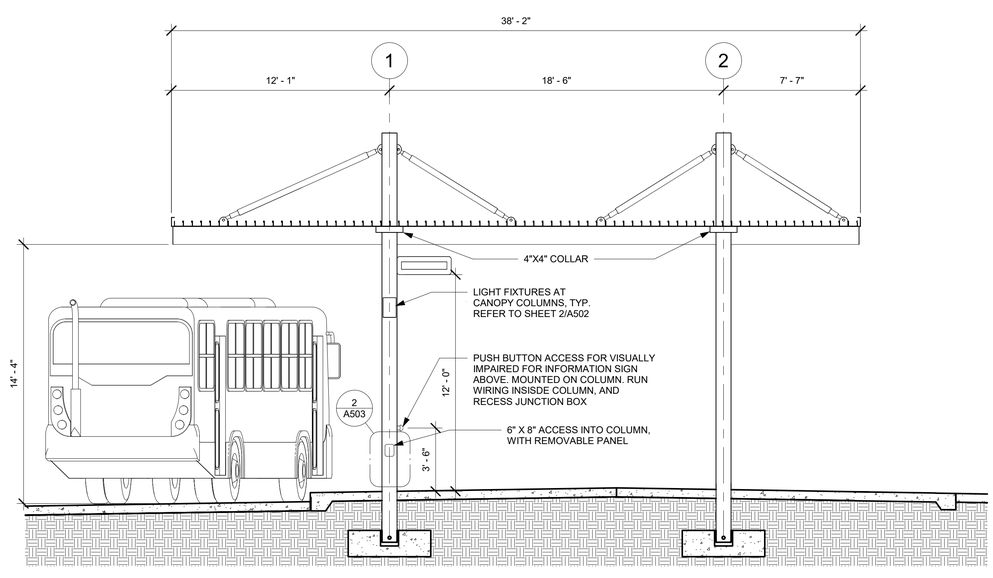


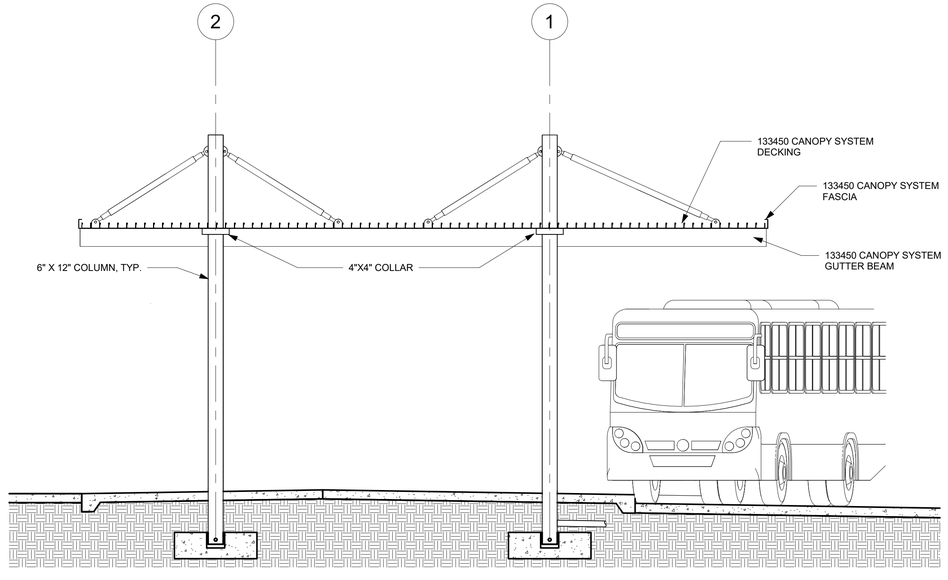
1 CANOPY PLAN
3/32" = 1'-0"



2 REFLECTED CANOPY PLAN
3/32" = 1'-0"



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



4 SECTION AT CANOPY
1/4" = 1'-0"

ROOF DRAINAGE NOTES

PER 2020 FBC - PLUMBING 1106.1: 100 YEAR 1-HOUR RAINFALL = 4.5"

PER 2020 FBC - PLUMBING 1106.2 (1): 4" DIAMETER DOWNSPOUT ACCOMMODATES 4, 140 S.F. OF HORIZONTALLY PROJECTED ROOF??

TYPICAL CANOPY ROOF CONSTRUCTION

133450 ALUMINUM WALKWAY SYSTEM ON 133450 WALKWAY SYSTEM GUTTER BEAMS

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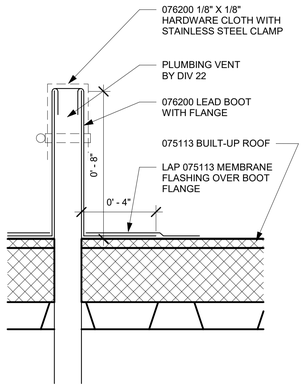
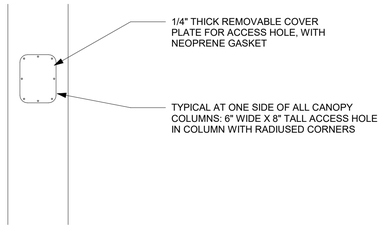
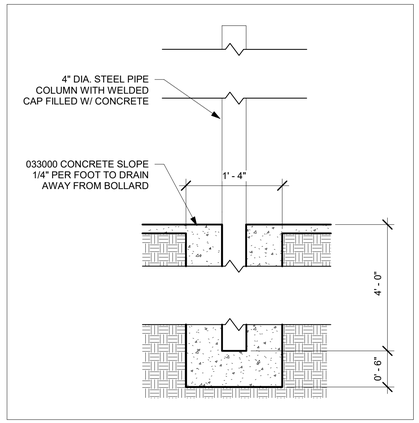


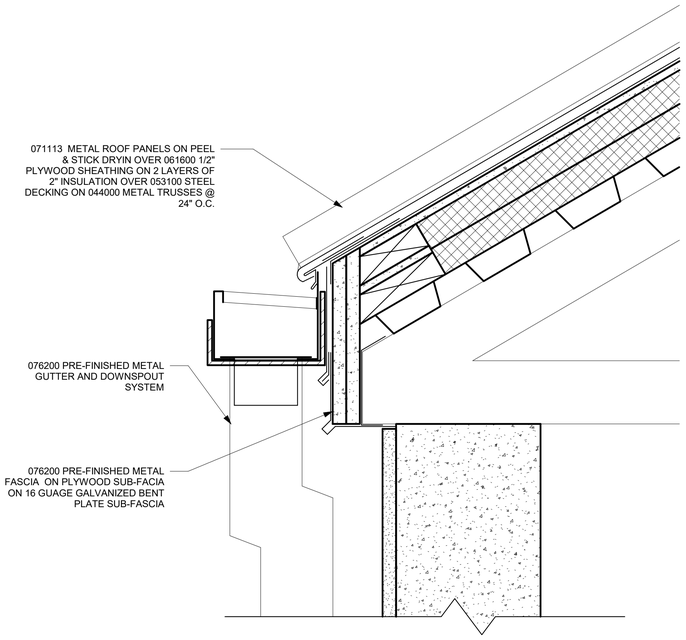
1 PLUMBING VENT DETAIL
3" = 1'-0"



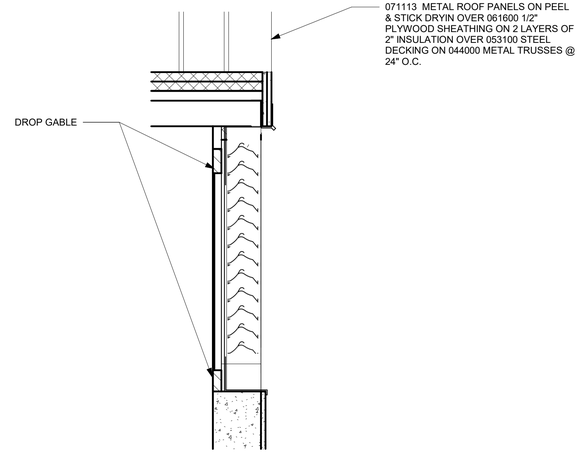
2 ACCESS PANEL
1" = 1'-0"



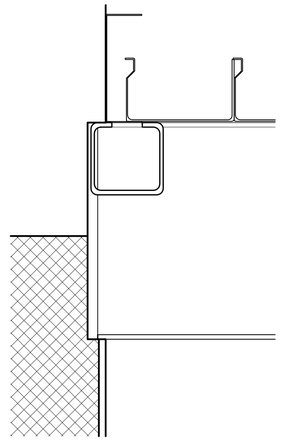
3 BOLLARD DETAIL
1" = 1'-0"



4 GUTTER DETAIL
3" = 1'-0"



5 LOUVER DETAIL
1" = 1'-0"



ALUMINUM WALKWAY DECK AT
6 MASONRY WALL
3" = 1'-0"

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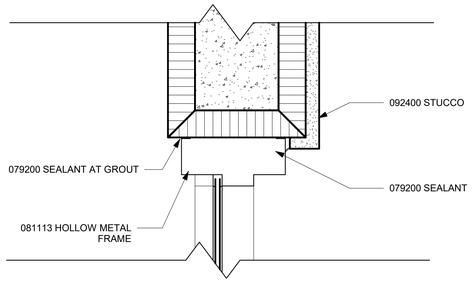
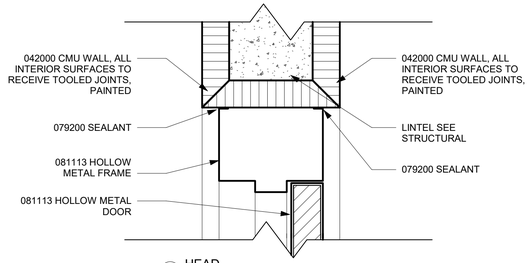
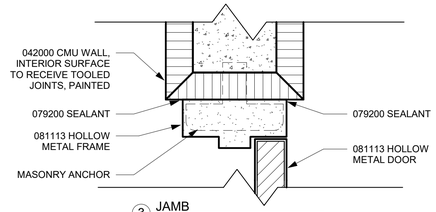


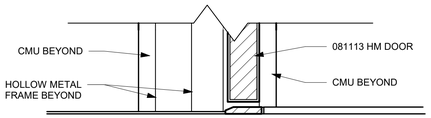
1 HOLLOW METAL JAMB, SILL, HEAD
3" = 1'-0"



2 HEAD
3" = 1'-0"

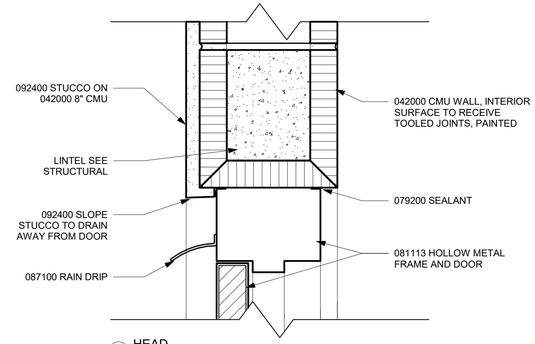


3 JAMB
3" = 1'-0"

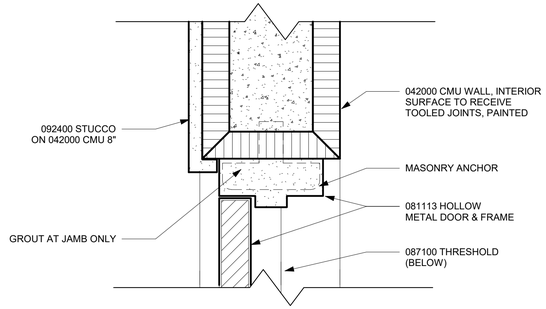


4 THRESHOLD
3" = 1'-0"

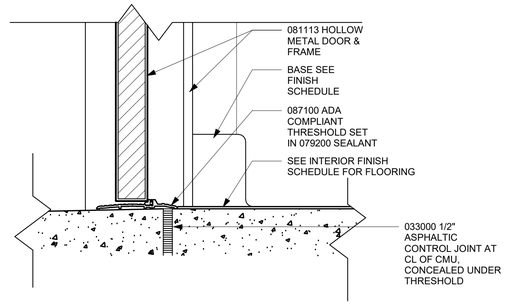
INTERIOR HOLLOW METAL DOOR FRAME DETAILS
3" = 1'-0"



5 HEAD
3" = 1'-0"



6 JAMB
3" = 1'-0"



7 THRESHOLD
3" = 1'-0"

HOLLOW METAL DOOR FRAME AT EXTERIOR C.M.U.
3" = 1'-0"

HOLLOW METAL WINDOW AT EXTERIOR C.M.U
3" = 1'-0"

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GENERAL REQUIREMENTS

A. THE GENERAL STRUCTURAL NOTES EMPLOY THE FOLLOWING DEFINITIONS AND ABBREVIATIONS:
   1. CONTRACT DOCUMENTS – THE LATEST SET OF DRAWINGS, SPECIFICATIONS, AND RECORDED ADDENDA AND AMENDMENTS ISSUED FOR BID OR CONSTRUCTION.
   2. LICENSED PROFESSIONAL (STRUCTURAL) ENGINEER – AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND QUALIFIED TO PERFORM THE WORK REQUIRED.
   3. STRUCTURAL ENGINEER OF RECORD – LICENSED PROFESSIONAL ENGINEER WHO IS IN RESPONSIBLE CHARGE FOR THE PREPARATION, SIGNING, DATING, SEALING, AND ISSUING OF STRUCTURAL ENGINEERING DOCUMENTS FOR ENGINEERING SERVICE OR CREATIVE WORK.
   4. DELEGATED ENGINEER – A LICENSED PROFESSIONAL ENGINEER WHO PROVIDES SERVICES OR CREATIVE WORK REGARDING A PORTION OF THE ENGINEERING PROJECT. THE DELEGATED ENGINEER IS THE ENGINEER OF RECORD FOR THAT PORTION OF THE ENGINEERING PROJECT. TYPICALLY, DELEGATED ENGINEERS FALL INTO ONE OF THE FOLLOWING CATEGORIES:
      a. AN INDEPENDENT CONSULTANT
      b. AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR OR CONTRACTOR
      c. AN EMPLOYEE OR OFFICER OF A FABRICATOR OR CONTRACTOR
   5. DELEGATED ENGINEERING DOCUMENTS – ENGINEERING DOCUMENTS THAT ARE PREPARED BY A DELEGATED ENGINEER.
   6. DESIGN TEAM – DESIGN PROFESSIONALS INCLUDING THE ARCHITECT, STRUCTURAL ENGINEER, CIVIL ENGINEER, MEP ENGINEER, AND ANY OTHER CONSULTANT THAT ISSUES CONTRACT DOCUMENTS.
   7. CONTRACTOR – GENERAL CONTRACTOR, CONSTRUCTION MANAGER, DESIGN BUILDER, OR ANY OTHER ENTITY CONTRACTED BY THE OWNER TO PERFORM THE WORK.
   8. SHOP DRAWINGS – DRAWINGS DEPICTING INSTALLATION MEANS AND METHODS AND CATALOG INFORMATION ON STANDARD PRODUCTS. SHOP DRAWINGS SHALL BE PREPARED BASED ON ENGINEERING DIRECTION CONTAINED IN CONTRACT DOCUMENTS BY A CONTRACTOR, FABRICATOR, MANUFACTURER, OR LICENSED PROFESSIONAL ENGINEER, FOR INCORPORATION INTO THE PROJECT.
   9. ESTABLISHED CHANNELS – AT THE ONSET OF THE PROJECT, ARCHITECT, OWNER, AND CONTRACTOR SHALL ESTABLISH DESIRED LINES OF COMMUNICATION BETWEEN ALL PROJECT PARTIES. THESE AGREED UPON LINES OF COMMUNICATION ARE THE ESTABLISHED CHANNELS.

B. GENERAL STRUCTURAL NOTES ARE APPLICABLE TO THE DESIGN AND CONSTRUCTION OF THE ENTIRE PROJECT AND THUS ARE APPLICABLE TO EVERY SHEET WITHIN THIS SET.

C. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION, OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OTHERWISE.

D. ISOMETRIC VIEWS ARE FOR VISUALIZATION PURPOSES ONLY AND DO NOT CONVEY ALL OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

E. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE DRAWINGS AND ANY OTHER CONTRACT DOCUMENT OR APPLICABLE CODE OR STANDARD OF PRACTICE DURING BIDDING, THE PROVISION RESULTING IN THE GREATER COST APPLIES. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT DURING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR CLARIFICATION TO THE DESIGN TEAM, WHO WILL PROVIDE A WRITTEN RESPONSE IN RETURN.

F. SPECIFICATIONS HAVE BEEN ISSUED ON THIS PROJECT BY THE STRUCTURAL ENGINEER OF RECORD AND ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. SEE SPECIFICATIONS FOR MATERIALS TESTING REQUIREMENTS.

G. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE QUALITY AND CORRECTNESS OF THE WORK.

H. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CURBS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.

I. THE BUILDING HAS BEEN DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD TO RESIST THE CODE REQUIRED VERTICAL AND LATERAL FORCES IN ITS FULLY COMPLETED CONDITION. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED BRACING, SHORING, AND OTHER CONSTRUCTION SUPPORTS NECESSARY TO ENSURE THE BUILDING'S STABILITY AND SAFETY THROUGHOUT THE DURATION OF CONSTRUCTION. FURTHER, THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PROVIDE THE ANALYSIS AND DESIGN NECESSARY TO DETERMINE POTENTIALLY OVERLOADED, UNSTABLE, OR HAZARDOUS CONDITIONS THAT MAY OCCUR AT ANY STAGE DURING CONSTRUCTION.

J. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND COORDINATE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS.

K. THE CONTRACTOR SHALL NOT EMPLOY CONSTRUCTION MEANS OR METHODS THAT MAY DAMAGE UTILITIES, ADJACENT BUILDINGS, OR PROPERTY. DOCUMENTATION OF ADJACENT CONDITIONS PRIOR TO CONSTRUCTION IS RECOMMENDED. FURTHER, THE CONTRACTOR SHALL EITHER ADEQUATELY CONFINE THE SITE OR PROTECT ADJACENT PROPERTY FROM DAMAGE.

L. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROJECT SAFETY AND OSHA REQUIREMENTS. SHOULD THE STRUCTURAL ENGINEER OF RECORD NOTIFY THE CONTRACTOR OF A POTENTIALLY UNSAFE CONDITION, IT IS SOLELY AS A COURTESY FROM ONE PROFESSIONAL TO ANOTHER. IT SHOULD NOT BE INTERPRETED AS THE STRUCTURAL ENGINEER OF RECORD ASSUMING ANY RESPONSIBILITY FOR PROJECT SAFETY.

M. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFE SPAN AND ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE, BUT NOT BE LIMITED TO: PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALINE OR OTHER HARSH CHEMICAL ENVIRONMENT.

N. THE USE OF DE-ICING CHEMICALS ON ANY EXPOSED STRUCTURAL ELEMENT IS DISCOURAGED AND WILL ACCELERATE DETERIORATION OF STRUCTURAL ELEMENTS.

O. THE BUILDING OWNER SHALL NOT ALTER OR MODIFY ANY STRUCTURAL ELEMENT WITHOUT CONSULTING A LICENSED PROFESSIONAL ENGINEER. FURTHER, BUILDING OWNER SHALL NOT RENOVATE, REPURPOSE, ADD-ON TO, OR OTHERWISE MODIFY THE EXISTING STRUCTURAL SYSTEMS WITHOUT CONSULTING A LICENSED PROFESSIONAL ENGINEER.

P. CONTRACT DRAWINGS SHOW MAJOR OPENINGS IN FLOORS AND WALLS AND DO NOT NECESSARILY SHOW ALL OPENINGS REQUIRED. THE CONTRACTOR SHALL COORDINATE ALL OPENING SIZES AND LOCATIONS BETWEEN ALL DISCIPLINES AND TRADES. ADDITIONAL OPENINGS, BLOCKOUTS, AND SLEEVES MAY BE REQUIRED AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR REQUIREMENTS WITHIN THE CONTRACT DOCUMENTS. OPENINGS REQUIRED, BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS, MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

Q. THE CONTRACTOR SHALL COORDINATE PIPING AND CONDUIT EMBEDDED IN OR ATTACHED TO SLABS, SLABS-ON-DECK, BEAMS, AND COLUMNS. ANY REQUIRED MODIFICATIONS TO STRUCTURAL MEMBERS OR THEIR REINFORCEMENT AS A RESULT OF EMBEDMENT OR ATTACHMENT SHALL BE SUBMITTED TO THE DESIGN TEAM FOR THEIR REVIEW. SEE GENERAL STRUCTURAL NOTES SECTION "DESIGN CRITERIA" FOR LIMITATIONS OF MEP LOADING ON STRUCTURAL SYSTEMS.

R. THE STRUCTURAL ENGINEER OF RECORD'S ROLE DURING CONSTRUCTION
   1. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT ASSUME CONTROL OF, OR RESPONSIBILITY FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, PROJECT SAFETY, THE ACTS AND OMISSIONS OF THE CONTRACTOR, OR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
   2. STRUCTURAL ENGINEER OF RECORD SHALL NOT HAVE AUTHORITY TO STOP THE WORK OR AUTHORIZE CHANGES TO ANY CONTRACT SUM.
   3. PERIODIC SITE VISITS BY REPRESENTATIVES OF THE STRUCTURAL ENGINEER OF RECORD ARE SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK AND DETERMINING, IN GENERAL, IF THE WORK OBSERVED IS BEING PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS LIMITED OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS AND THAT OBSERVATIONS ARE QUALITATIVE, NOT QUANTITATIVE. THIS LIMITED INFORMATION WILL BE USED TO ADVISE THE OWNER/CONTRACTOR/ARCHITECT OF POTENTIAL DEFICIENCIES.

S. CLARIFICATION OF POSITION OF STRUCTURALLY FRAMING ELEMENTS
   1. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS, DO NOT SCALE ANY DIMENSIONS.
   2. IF NOT INDICATED ON DRAWINGS, ASSUME EQUAL SPACING BETWEEN ESTABLISHED DIMENSIONS.
   3. CENTER LINES OF COLUMNS AND FOUNDATIONS SHALL COINCIDE WITH GRID LINE INTERSECTION, UNLESS NOTED OTHERWISE.
   4. CENTER LINES OF FOOTINGS, GRADE BEAMS, AND WALLS SHALL COINCIDE WITH CENTER LINES OF FOUNDATIONS, UNLESS NOTED OTHERWISE.
   5. CENTER LINES OF FRAMING MEMBERS SHALL COINCIDE WITH COLUMN CENTER LINES, UNLESS NOTED OTHERWISE.
   6. ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS, OR BEAMS, UNLESS NOTED OTHERWISE.

T. SEE ARCHITECTURAL, CIVIL, MEP, AND VERTICAL TRANSPORTATION CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS INCLUDING, BUT NOT LIMITED TO:
   1. CIVIL
      a. SITING OF BUILDING GRID LINES WITH RESPECT TO CITY BENCHMARKS
      b. SITE PREPARATION
      c. BACKFILLING MATERIALS AND REQUIREMENTS INCLUDING DRAINAGE ADJACENT TO RETAINING WALLS
      d. SITE ELEMENTS OUTSIDE OF BUILDING ENVELOPE
      e. NEW AND EXISTING SITE UTILITIES
   2. ARCHITECTURAL
      a. PLAN DIMENSIONS AND PROJECT DATUM
      b. SLAB EDGE DIMENSIONS AND FINISH ELEVATIONS
      c. WATERPROOFING AND DAMP PROOFING DETAILS
      d. SLAB SLOPES, STEPS AND DEPRESSIONS, RAMPS, TRENCHES
      e. EMBEDMENTS, INSERTS, BLOCKOUTS, ETC.
      f. CONCRETE FINISHES AND TOPPING SLABS
      g. CONCRETE CURBS AND HOUSEKEEPING PADS
      h. INTERIOR NON-STRUCTURAL MASONRY PARTITIONS
      i. LIFE SAFETY, FIRE RATING
      j. METAL PAN STAIRS AND SUPPORTS
      k. OPERABLE PARTITIONS
   3. MEP
      a. PIPE AND DUCT SIZES FOR OPENING AND SLEEVE COORDINATION
      b. FLOOR DRAINS
      c. UNDERFLOOR AND PERIMETER DRAINAGE SYSTEMS
      d. EQUIPMENT CURBS
      e. CONDUITS AND EMBEDMENTS IN WALLS AND SLABS
   4. VERTICAL TRANSPORTATION
      a. INSERTS, HANGERS, TRENCHES, PITS, CONDUITS IN WALLS AND SLAB

V. THIS BUILDING DOES NOT QUALIFY AS A THRESHOLD BUILDING PER CHAPTER 553.71 OF THE FLORIDA STATUTES. HOWEVER, VARIOUS INSPECTIONS ARE REQUIRED TO BE PERFORMED BY THE ENFORCING AGENCY. FOR THIS PROJECT, STRUCTURAL SYSTEMS REQUIRING INSPECTION INCLUDE:
   1. __________
   2. __________

ELECTRONIC DATA/REPRODUCTION

A. ALL INFORMATION CONTAINED IN THE ELECTRONIC FILES OF THE CONTRACT DOCUMENTS ARE INSTRUMENTS OF SERVICE OF THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD AND SHALL NOT BE USED FOR OTHER PROJECTS, ADDITIONS TO THE PROJECT, OR THE COMPLETION OF THE PROJECT BY OTHERS. ELECTRONIC FILES OF THE STRUCTURAL DOCUMENTS REMAIN THE PROPERTY OF JEZERINAC GROUP AND IN NO CASE SHALL THEIR TRANSFER BE CONSIDERED A SALE.

B. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREIN. THE USE OF ELECTRONIC FILES DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROPER CHECKING AND COORDINATION OF DIMENSIONS, DETAILS, SIZE, AND QUANTITIES.

C. DIMENSIONS AND ELEMENT SIZES AND LOCATIONS IN THE ELECTRONIC FILES MAY NOT BE PRECISE AND, IN SOME CASES, HAVE BEEN INTENTIONALLY ALTERED FOR PRESENTATION PURPOSES. DO NOT SCALE DIMENSIONS ELECTRONICALLY OR OTHERWISE.

D. WHEN USED FOR THE PREPARATION OF SHOP DRAWINGS, ALL INFORMATION NOT APPLICABLE TO THE SUBCONTRACT SHALL BE REMOVED FROM THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO: SHEET NUMBERS, SECTION MARKS, TITLE BLOCKS, AND REFERENCES TO THE CONTRACT DOCUMENTS.

SUBMITTALS

A. REFER TO DIVISION 01 OF SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND REQUIREMENTS. REFER TO THE APPLICABLE SPECIFICATION SECTIONS FOR TECHNICAL CONTENT.

B. SUBMIT SPECIFIC COMPONENTS SUCH AS COLUMNS, FOUNDATIONS, ETC, IN A SINGLE PACKAGE. SUBMIT SIMILAR FLOORS TOGETHER.

C. **[TEN]** WORKING DAYS PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT, FOR REVIEW AND COMMENT BY THE STRUCTURAL ENGINEER OF RECORD, A SCHEDULE WHICH DETAILS THE ESTIMATED QUANTITY OF SHOP DRAWINGS AND THE DATE THE SHOP DRAWINGS WILL BE RECEIVED BY THE STRUCTURAL ENGINEER OF RECORD. THE STRUCTURAL ENGINEER OF RECORD SHALL HAVE THE OPPORTUNITY TO REVIEW THE PROPOSED SCHEDULE AND SUBMIT COMMENTS TO THE CONTRACTOR. THE FINAL SHOP DRAWING SCHEDULE SHALL BE DEVELOPED AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD. IN ACCORDANCE WITH THE SHOP DRAWING SCHEDULE, THE STRUCTURAL ENGINEER OF RECORD WILL RETURN THE SHOP DRAWING ITEMS WITHIN TEN WORKING DAYS AFTER HAVING RECEIVED THE REPRODUCIBLE SHOP DRAWING.

D. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO FORWARDING TO ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL STAMP EACH SUBMITTAL VERIFYING THAT THE FOLLOWING IS ADDRESSED:
   1. THE SUBMITTAL IS REQUESTED.
   2. THE SUBMITTAL IS BASED ON THE LATEST DESIGN.
   3. THE SUBMITTAL IS CLEARLY CLOUDED FOR ALL THE DIFFERENCES FROM THE CONTRACT DOCUMENTS ON THE FIRST SUBMITTAL.
   4. THE SUBMITTAL IS CLEARLY CLOUDED FOR ALL CHANGES AND ADDITION FROM PREVIOUS SUBMITTAL.
   5. THE ARCHITECT'S AND STRUCTURAL ENGINEER OF RECORD'S COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED.
   6. THE WORK IS COORDINATED AMONGST ALL CONSTRUCTION TRADES.
   7. THE SUBMITTAL IS COMPLETE.
   8. THE SUBMITTAL SHALL INCLUDE A STAMP INDICATING PROJECT NAME AND LOCATION, SUBMITTAL NUMBER, AND SPECIFICATION SECTION NUMBER.

E. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW OF SUBMITTALS SHALL BE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT.

F. THE STRUCTURAL ENGINEER OF RECORD SHALL RETURN, WITHOUT COMMENT, SUBMITTALS WHICH THE CONTRACTOR HAS NOT STAMPED OR WHICH DO NOT MEET THE ABOVE REQUIREMENTS.

G. FOR THE COMPONENTS DESIGNED BY A DELEGATED ENGINEER: PROVIDE SHOP DRAWINGS, DESIGN CALCULATIONS, AND A COVER LETTER SIGNED AND SEALED BY THE DELEGATED ENGINEER. LETTER SHALL INDICATE THAT THE SHOP DRAWINGS ARE IN CONFORMANCE WITH THE DELEGATED ENGINEER'S CALCULATIONS. REFER TO APPLICABLE SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.

H. DEFERRED SUBMITTALS ARE MANUFACTURER OR CONTRACTOR DESIGNED COMPONENTS PER THE CONTRACT DOCUMENTS. THESE ELEMENTS OF THE DESIGN ARE DEFERRED SUBMITTAL COMPONENTS AND HAVE NOT BEEN PERMITTED UNDER THE BASE BUILDING APPLICATION. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD, WHO SHALL REVIEW THEM FOR GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE CONTRACTOR SHALL SUBMIT THESE REVIEWED DEFERRED SUBMITTAL DOCUMENTS TO THE BUILDING OFFICIAL FOR APPROVAL. THESE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN TEAM HAS REVIEWED AND THE BUILDING OFFICIAL HAS APPROVED. SEE BELOW FOR THE LIST OF DEFERRED SUBMITTALS.

I. THE FOLLOWING SUBMITTALS ARE REQUIRED TO BE SUBMITTED FOR STRUCTURAL ENGINEER OF RECORD REVIEW AS OUTLINED IN THE SPECIFICATIONS:

031000	CONCRETE FORMWORK	(SS, CALC)
032000	CONCRETE REINFORCEMENT LAYOUT	(S)
033000	CONCRETE MIX DESIGNS	(CALC, TA)
033000	CONCRETE CONSTRUCTION JOINT LAYOUT	(S)
033816	POST-TENSIONING TENDON LAYOUT	(DF, SS)
033816	POST TENSIONING TENDON FRICTION LOSS CALC	(DF, CALC)
034100	STRUCTURAL PRECAST CONCRETE ELEMENT	(DF, SS, CALC)
034100	STRUCTURAL PRECAST CONCRETE CONNECTION	(DF, SS, CALC)
034100	STRUCTURAL PRECAST CONCRETE JOIST	(DF, SS, CALC)
034713	TILT-UP CONCRETE PANEL	(DF, SS, CALC)
034713	TILT-UP CONCRETE PANEL LIFTING	(DF, SS, CALC)
042200	MASONRY REINFORCEMENT LAYOUT	(S)
051200	STRUCTURAL STEEL	(S)
051200	STRUCTURAL STEEL CONNECTIONS	(DF, S, CALC)
051200	SHEAR STUD LAYOUT	(S)
051400	STRUCTURAL ALUMINUM FRAMING	(DF, SS, CALC)
052100	STEEL JOISTS, BRIDGING, AND CONNECTIONS	(DF, SS, CALC)
053100	STEEL COMPOSITE DECK	(S)
053100	STEEL FORM DECK	(S)
053100	STEEL ROOF DECK	(S)
054000	COLD-FORMED METAL FRAMING USED FOR EXTERIOR	(SS, CALC) (SEE ARCH)
	EXTERIOR CLADDING SYSTEM	(SS, CALC, REC)
	SHORING AND RESHORING	(DF, SS, CALC)
133419	METAL BUILDING	(DF, SS, CALC) (SEE ARCH)
	HANDRAIL, GUARDRAIL, RAILING	(SS, CALC, REC)
142000	ELEVATOR	(DF, SS, CALC, REC)
	SURVEY OF STRUCTURAL STEEL ERECTION	(SS)
312319	DEWATERING	(GEO, REC)
316316	AUGER CAST PILE LAYOUT, SIZE AND LENGTH	(S)

S = SHOP DRAWING REQUIRED
DF = DEFERRED SUBMITTAL
SS = SIGNED AND SEALED SHOP DRAWINGS PREPARED BY A LICENSED DELEGATED ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.
CALC = SUPPORTING CALCULATIONS REQUIRED, SIGNED AND SEALED BY A LICENSED DELEGATED ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.
REC = ITEMS SUBMITTED FOR RECORD ONLY AND WILL NOT HAVE STRUCTURAL ENGINEER OF RECORD SHOP DRAWING STAMP AFFIXED.
GEO = ITEMS SUBMITTED TO CONSTRUCTION GEOTECHNICAL ENGINEER FOR THEIR REVIEW.
TA = ITEMS SUBMITTED TO OWNER'S TESTING AGENCY FOR THEIR REVIEW.

GOVERNING CODES & STANDARDS

BUILDING CODE:	FBC 2020	FLORIDA BUILDING CODE, BUILDING
STANDARDS:	ASCE 7	AMERICAN SOCIETY OF CIVIL ENGINEERS: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
	ACI 318	AMERICAN CONCRETE INSTITUTE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
	TMS 402	THE MASONRY SOCIETY: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
	AISC 360	AMERICAN INSTITUTE OF STEEL CONSTRUCTION: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
	AISC 341	AMERICAN INSTITUTE OF STEEL CONSTRUCTION: SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
	AWS D1.1	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - STEEL
	AWS D1.3	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - SHEET STEEL
	AWS D1.4	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - REINFORCING STEEL
	AISI S100	AMERICAN IRON AND STEEL INSTITUTE: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS

DESIGN CRITERIA

A. STRUCTURE LOCATION:
   LONGITUDE: 26.620631
   LATITUDE: -81.647235

B. LOADING:
   1. SUPERIMPOSED DEAD & LIVE LOADS:
      ALL DEAD LOADS LISTED BELOW ARE IN ADDITION TO THE STRUCTURE'S SELF-WEIGHT.

	DEAD LOAD	LIVE LOAD
ROOF:		
ENCLOSED	20 PSF	20 PSF REDUCIBLE

   2. RAIN LOAD:
      DESIGN RAINFALL: 4.5"/HOUR (100-YEAR, 1-HOUR RAINFALL)
      RAINWATER AT LOWEST POINT OF ROOF SHALL NOT POND DURING DESIGN RAINFALL
      DESIGN RAIN LOAD, R: 20 PSF
   3. WIND LOAD:
      ULTIMATE DESIGN WIND SPEED, V_{ult}: 160 MPH
      NOMINAL DESIGN WIND SPEED, V_{asd}: 124 MPH
      RISK CATEGORY: II
      WIND EXPOSURE CATEGORY: C
      ENCLOSURE CLASSIFICATION: OPEN (BUS SHELTER)
      ENCLOSED (SUPPORT BUILDING)
      INTERNAL PRESSURE COEFFICIENT: +/-0.18 (ENCLOSED) AND 0.00 (OPEN)
      COMPONENTS & CLADDING DESIGN PRESSURES: SEE WIND PRESSURE DIAGRAMS

C. FUTURE EXPANSION:
   NO PROVISIONS HAVE BEEN MADE FOR FUTURE VERTICAL OR HORIZONTAL EXPANSION OF THE STRUCTURE.

D. SERVICEABILITY:
   1. DEFLECTION LIMITS: TOTAL LOAD DEFLECTION ONLY APPLIES TO THE DEFLECTION DUE TO THE CREEP COMPONENT OF LONG-TERM DEAD LOAD DEFLECTION PLUS THE SHORT-TERM DEFLECTION. LONG-TERM DEFLECTION OF WOOD STRUCTURAL MEMBERS SHALL BE CALCULATED IN ACCORDANCE WITH THE AWC NDS. IT IS PERMITTED TO ESTIMATE THE CREEP-COMPONENT OF THE LONG-TERM DEFLECTION AS THE IMMEDIATE DEAD LOAD DEFLECTION.
      a. ROOF MEMBERS
         - TOTAL LOAD DEFLECTION: L/___
         - TRANSITORY LOAD DEFLECTION: L/___
      b. EXTERIOR WALLS & CLADDING
         - WIND LOAD DEFLECTION: L/___
      c. INTERIOR PARTITIONS
         - LIVE LOAD DEFLECTION: L/___

EARTHWORK & FOUNDATIONS

A. GEOTECHNICAL INVESTIGATION REPORT
   1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:
      a. *REPORT TITLE:* ***[______________________ (REPORT No. _____)]***
      b. *PREPARED BY:* ***[______________, __________, FL]***
      c. *DATED:* ***[__________, 20__]***
   2. THE GEOTECHNICAL INVESTIGATION REPORT IS AVAILABLE TO THE CONTRACTOR UPON REQUEST TO THE OWNER. THE INFORMATION HEREIN MAY BE USED BY THE CONTRACTOR FOR HIS GENERAL REFERENCE ONLY. THE GEOTECHNICAL INVESTIGATION REPORT RECOMMENDATIONS SHALL SUPERSEDE THE MINIMUM CRITERIA STATED IN THE STRUCTURAL GENERAL NOTES.

B. SHALLOW FOUNDATIONS
   1. FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
   2. FOUNDATION SIZES AND REINFORCEMENT ARE BASED ON AN ALLOWABLE BEARING PRESSURE OF **[____ PSF]** PER THE GEOTECHNICAL INVESTIGATION REPORT.
   3. FOUNDATIONS SHALL BEAR A MINIMUM OF **[_'-_"]** BELOW ADJACENT EXTERIOR GRADE.
   4. FOUNDATIONS SHALL BEAR ON COMPACTED STRUCTURAL FILL, NATURAL SOILS, OR ROCK PREPARED PER THE GEOTECHNICAL INVESTIGATION REPORT.
   5. PRIOR TO PLACEMENT OF CONCRETE, A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY SOILS CONFORMANCE TO THE RECOMMENDATIONS AND ASSUMPTIONS IN THE GEOTECHNICAL INVESTIGATION REPORT. ALL ADVERSE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ STRUCTURAL ENGINEER OF RECORD.
   6. SOILS BELOW FOUNDATIONS NOT MEETING DESIGN BEARING PRESSURE SHALL BE REMEDIATED PER THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE FOUNDATIONS.
   7. CENTER ALL FOUNDATIONS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, UNLESS NOTED OTHERWISE.
   8. TOP OF FOUNDATION ELEVATIONS PROVIDED ON THE CONTRACT DRAWINGS ARE FOR PURPOSE OF THE CONTRACT AND SHALL BE ADJUSTED, AS REQUIRED, AT THE TIME OF EXCAVATION TO BEAR ON PROPERLY PREPARED SUPPORT SUBGRADE (PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS).

C. EARTHWORK AND EXCAVATION
   1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING, BUT NOT LIMITED TO: LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS.
   2. EXCAVATION SHALL NOT OCCUR WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROTECTED AGAINST SETTLEMENT.
   3. THE EXTENT OF SUBGRADE PREPARATION SHALL EXTEND A MINIMUM OF 5'-0" BEYOND THE BUILDING PERIMETER.
   4. THE CONTRACTOR SHALL PROVIDE A SUBGRADE BENEATH THE SLAB-ON-GROUND PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
   5. UNLESS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT, COMPACT FILL TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557. EACH LAYER SHALL NOT EXCEED 8" LOOSE THICKNESS. COMPACT PRIOR TO THE PLACEMENT OF THE NEXT LAYER. COMPACTION SHALL MEET ALL RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT.
   6. PLACEMENT OF FILL AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY A RETAINED TESTING AGENCY. PERFORM A MINIMUM OF ONE FIELD DENSITY TEST (ASTM D-1556 OR D-6938) FOR EVERY 2,500 SQUARE FEET OF EACH LAYER. THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.
   7. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF THE CONSTRUCTION DEWATERING SYSTEMS REQUIRED FOR THE EXCAVATION. AT A MINIMUM, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING SITE.
   8. THE CONTRACTOR SHALL SUBMIT CONSTRUCTION DEWATERING PLAN TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO BEGINNING EXCAVATION.
   9. THE CONTRACTOR SHALL INSTALL ALL NECESSARY DEWATERING SYSTEMS.

SLAB-ON-GROUND

A. THE SLAB-ON-GROUND HAS BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.

B. SLAB THICKNESSES AND REINFORCEMENT ARE BASED ON A MODULUS OF SUBGRADE REACTION OF (_____ **PCI** PER THE GEOTECHNICAL INVESTIGATION REPORT **OR** AN ASSUMED VALUE OF 50 PCI).

C. SUBGRADE PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.

D. FOR INTERIOR SLABS, PLACE A 10-MIL (MINIMUM) VAPOR RETARDER BETWEEN THE SOIL AND BOTTOM OF SLAB. SEE CAST-IN-PLACE CONCRETE SPECIFICATIONS FOR APPROVED VAPOR RETARDER PRODUCTS/MANUFACTURERS. DO NOT USE VAPOR RETARDERS AT EXTERIOR SLABS. SEE ARCHITECTURAL CONTRACT DOCUMENTS FOR PROJECT SPECIFIC REQUIREMENTS.

E. IF THE SLAB-ON-GROUND HAS BEEN DESIGNATED AS A STRUCTURAL SLAB-ON-GROUND IN THE CONTRACT DOCUMENTS, NO SAW CUTTING OF THE SLAB IS PERMITTED.

F. CONTROL JOINTS SHALL BE CUT INTO THE SURFACE OF THE SLAB, IN EACH DIRECTION. SEE THE TYPICAL SAW CUT JOINT DETAIL FOR TIME, DEPTH, AND SPACING OF JOINT REQUIREMENTS UNLESS NOTED OTHERWISE. CONTROL JOINTS SHALL BE CONSTRUCTED SUCH THAT THE AREA CONTAINED BY THE CONTROL JOINTS HAS A MAXIMUM RATIO OF LONG SIDE TO SHORT SIDE OF 1.5 TO 1 UNLESS NOTED OTHERWISE. DO NOT CONSTRUCT CONTROL JOINTS SUCH THAT L-SHAPED SLAB PANELS ARE CREATED.

G. COLUMN ISOLATION JOINTS SHALL BE CONSTRUCTED PER THE TYPICAL COLUMN ISOLATION JOINT DETAIL IN ORDER TO PROVIDE ADEQUATE SPACE FOR COLUMN INSTALLATION.

H. CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. SLAB CONSTRUCTION JOINTS SHALL BE DOWELED.

I. WHERE SPECIFIED ON PLAN, WELDED WIRE REINFORCEMENT SHALL BE INSTALLED. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED SUCH THAT IT IS LOCATED AT A DEPTH OF 1 1/2" FROM THE TOP OF SLAB.

J. REFERENCE ARCHITECTURAL AND MEP DOCUMENTS FOR SLAB FINISHES AND SLOPES NOT REFERENCED ON THE STRUCTURAL DOCUMENTS. THE MINIMUM SLAB THICKNESS SPECIFIED IN THE CONTRACT DOCUMENTS MUST BE MAINTAINED.

K. REFERENCE ARCHITECTURAL DOCUMENTS FOR VAPOR RETARDER AND SLAB AND CONTROL JOINT SEALANT REQUIREMENTS.

L. CONDUITS SHALL NOT BE PLACED WITHIN THE SLAB. CONDUITS SHALL BE PLACED BENEATH THE SLAB.

CONCRETE

A. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH DIVISION 03 OF THE SPECIFICATIONS.

B. FOR CONCRETE MIXTURE REQUIREMENTS SEE SCHEDULE ON SHEET **[S .]**.

C. THE USE OF RECYCLED CONCRETE IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

D. NORMAL WEIGHT CONCRETE SHALL BE USED FOR ALL CONCRETE MEMBERS UNLESS NOTED OTHERWISE. NORMAL WEIGHT CONCRETE SHALL HAVE A CURED DENSITY OF 145 PCF ±5 PCF. WHERE LIGHT WEIGHT CONCRETE IS SPECIFIED THE CURED DENSITY SHALL BE 112 PCF ±3 PCF.

E. EACH MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER AND THE INTENDED LOCATION OF PLACEMENT ON THE SPECIFIC PROJECT SHALL BE CLEARLY STATED.

F. ALL PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS, WALLS, AND SLABS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS OR BY WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. FOR MILD REINFORCED MEMBERS, CONSTRUCTION JOINTS SHALL OCCUR WITHIN THE MIDDLE THIRD OF A MEMBER'S SPAN. ALL APPROVED CONSTRUCTION JOINTS SHALL BE INDICATED, DIMENSIONED, AND DETAILED ON THE CONCRETE REINFORCEMENT SHOP DRAWINGS.

G. GIRDERS, BEAMS, HAUNCHES, DROP PANELS, DROP CAPS, AND CAPITALS SHALL BE POURED MONOLITHICALLY AS PART OF THE SLAB SYSTEM UNLESS NOTED OTHERWISE.

H. PROVIDE A ¾ INCH CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALLS, ETC UNLESS NOTED OTHERWISE.

I. CONCRETE CORING AND INSTALLATION OF DRILLED ANCHORS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

J. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL CONCRETE DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL COORDINATE BETWEEN THE ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS TO FURNISH DIMENSIONED DRAWINGS THAT LOCATE AND SIZE ALL SLAB EDGES, OPENINGS, AND PENETRATIONS. THESE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.

K. EMBEDDED CONDUITS, PIPES, AND SLEEVES
   1. THE OUTSIDE DIAMETER OF CONDUITS, PIPES, AND SLEEVES SHALL NOT EXCEED ONE-THIRD THE THICKNESS OF THE SLAB, WALL OR BEAM IN WHICH THEY ARE EMBEDDED. EMBEDMENTS SHALL NOT SIGNIFICANTLY REDUCE THE CAPACITY OF THE MEMBERS THEY PENETRATE.
   2. THE MINIMUM CLEAR COVER FOR CONDUITS, PIPES, AND SLEEVES SHALL BE 1 ½" FOR CONCRETE EXPOSED TO EARTH OR WEATHER AND ¾" FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER.
   3. ALUMINUM EMBEDMENTS AND EMBEDMENTS MADE OF ANY OTHER MATERIAL HARMFUL TO THE CONCRETE OR REINFORCEMENT ARE PROHIBITED.
   4. EMBEDMENTS NOT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE DESIGNED TO RESIST THE EFFECTS OF MATERIAL, PRESSURE, AND TEMPERATURE THAT THEY WILL BE SUBJECTED TO. THE WORK SHALL BE COORDINATED AMONGST ALL CONSTRUCTION TRADES.
   5. THE CONTENTS OF EMBEDDED PIPES SHALL NOT FLOW UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED DESIGN STRENGTH.
   6. CONDUITS, PIPES, AND SLEEVES SHALL BE PLACED BETWEEN TOP AND BOTTOM LAYERS OF REINFORCEMENT IN SLABS AND BETWEEN INNER AND OUTER LAYERS OF REINFORCEMENT IN WALLS.
   7. EMBEDDED ITEMS SHALL BE FABRICATED AND INSTALLED SUCH THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS SPECIFIED LOCATION IS NOT REQUIRED.

CONCRETE REINFORCEMENT

A. ALL CONCRETE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 03 OF THE SPECIFICATIONS.

B. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.

C. WHERE WELDS ARE INDICATED FOR REINFORCING STEEL ON THE DRAWINGS, REINFORCING STEEL SHALL BE A706, GRADE 60 UNLESS OTHERWISE NOTED.

D. WELDED WIRE REINFORCEMENT SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF ASTM A1064.

E. ALL 90°, 135°, AND 180° HOOKED REINFORCEMENT SPECIFIED AND GRAPHICALLY DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE DETAILED IN ACCORDANCE WITH ACI 318 STANDARD HOOK GEOMETRY FOR DEFORMED BARS IN TENSION AND FOR STIRRUPS, TIES, AND HOOPS.

F. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MINIMUM OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE, TYPICAL).

G. FOR CONCRETE CLEAR COVER TO REINFORCEMENT SEE SCHEDULE ON SHEET **[S .]** UNLESS NOTED OTHERWISE. CLEAR COVER IN PARENTHESES () DENOTES CLEAR COVER WHEN THE AS-BUILT APPLICATION IS EXPOSED TO WEATHER.

H. ALL LAP SPLICES SHALL BE CLASS B TENSION LAP SPLICES IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE. SEE LAP SPLICE SCHEDULE ON SHEET **[S .]** FOR LAP SPLICE LENGTHS. UNLESS NOTED AS CONTINUOUS, REINFORCEMENT SHALL ONLY BE SPLICED AT LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS. SPLICES AT NON-SPECIFIED LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.

I. A MINIMUM LAP SPLICE OF 8" SHALL BE PROVIDED AT ALL END AND SIDE LAP CONDITIONS FOR WELDED WIRE REINFORCEMENT UNLESS NOTED OTHERWISE.

J. MECHANICAL SPLICES ARE REQUIRED WHERE SPECIFIED ON THE CONTRACT DOCUMENTS. MECHANICAL SPLICES ARE ALSO REQUIRED TO SPLICE #14 AND #18 BARS. MECHANICAL SPLICES MAY ALSO BE USED AT THE CONTRACTOR'S OPTION, PROVIDED THE MECHANICAL SPLICES HAVE A CURRENT ICC-ES REPORT DEMONSTRATING THEY CAN DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION. MECHANICAL SPLICES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.

K. THE USE OF WELDED SPLICES IS PROHIBITED UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL SUBMIT THE LOCATIONS OF WELDED SPLICES TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. IF APPROVED, WELDED SPLICES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.

L. DOWELS SHALL MATCH SIZE AND SPACING OF PRIMARY REINFORCEMENT UNLESS NOTED OTHERWISE.

M. SEE TYPICAL DETAILS FOR REINFORCEMENT REQUIRED AT OPENINGS AND PENETRATIONS.

N. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCEMENT BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.

STRUCTURAL DRAWING LIST

JEZERINAC
GROUP
10461 SIX MILE CYPRESS PKWY, UNIT 501
FORT MYERS, FL 33966
T 239.277.7771
www.jezerinacgroup.com
CERTIFICATE OF AUTHORIZATION FL #30785
JG Project #: 22.21.011

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS.

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PARKER / MUDGETT / SMITH ARCHITECTS, INC.
2136 McGREGOR BLVD. FORT MYERS, FLORIDA 33901
(239) 332-1171

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LEHIGH PARK AND RIDE FACILITY

1121 VILLAGE LAKES BLVD., LEHIGH ACRES, FLORIDA 33972

07/01/2022

S001

CONCRETE MASONRY

A. MANUFACTURE AND INSTALL ALL CONCRETE MASONRY IN ACCORDANCE WITH DIVISION 04 SPECIFICATIONS. ALL MASONRY DESIGN SHALL CONFORM TO TMS 402 AND ALL MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602.
B. ALL LOAD-BEARING, NON-LOAD-BEARING, AND BACKUP WALL CONCRETE MASONRY UNIT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS:
   1. CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT (135 PCF)
   2. MORTAR: ASTM C270, TYPE 'S' OR 'M' PORTLAND CEMENT/LIME ONLY (USE TYPE 'M' MORTAR WHEN MASONRY IS IN DIRECT CONTACT WITH SOIL; TYPE 'S' IS IN ALL OTHER CONDITIONS)
   3. GROUT: ASTM C476
   4. PORTLAND CEMENT: ASTM C150, TYPE I (TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION)
   5. HYDRATED LIME: ASTM C207, TYPE 'S'
   6. AGGREGATE: ASTM C404 (FOR GROUT)
   7. STEEL REINFORCEMENT: ASTM A615, GRADE 60
   8. JOINT REINFORCEMENT: ASTM A1064, TRUSS OR LADDER TYPE, GALVANIZE PER ASTM A153, TYPE B-2
C. CONCRETE MASONRY UNITS:
   1. F'_M SHALL BE **[2000]** PSI (MINIMUM NET AREA CMU COMPRESSIVE STRENGTH SHALL BE **[2000]** PSI).
   2. LAY CONCRETE MASONRY UNITS IN RUNNING BOND UNLESS NOTED OTHERWISE WITH UNITS DESIGNED TO ALIGN WITH WEBS IN EACH COARSE.
D. MORTAR:
   1. HEAD AND BED JOINTS SHALL BE 3/8 INCHES FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF: PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING ½ INCHES OR MORE INTO CELLS TO BE GROUTED.
   2. PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND HEAD) FACE SHELL JOINTS.
E. GROUT:
   1. MASONRY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF **[3000]** PSI AT 28-DAYS.
   2. GROUT MIX SHALL CONTAIN PORTLAND CEMENT, AGGREGATE, AND A GROUT-ENHANCING SHRINKAGE-COMPENSATING ADMIXTURE.
   3. MAXIMUM SIZE OF AGGREGATE SHALL BE 3/8 INCH. SLUMP SHALL BE 8 TO 11 INCHES. WATER REDUCING ADMIXTURES MAY BE USED.
   4. GROUT ALL MASONRY CONTAINING REINFORCEMENT, **[ALL CELLS OF 4-HOUR RATED WALLS]**, AND WHERE INDICATED ON THE DRAWINGS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF THE CELLS CONTAINING REINFORCEMENT TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING, USE 5'-0" (MAXIMUM) LIFTS, WITH ½ HOUR TO 1 HOUR BETWEEN LIFTS.
   5. GROUT SHALL BE VIBRATED WHILE PLACING TO ENSURE THAT CELLS ARE COMPLETELY FILLED.
F. STEEL REINFORCEMENT:
   1. PROVIDE VERTICAL REINFORCEMENT IN CELLS OF CONCRETE MASONRY UNITS (FULLY EMBEDDED IN GROUT) AS SHOWN ON THE PLANS AND OTHER DETAILS. MINIMUM REINFORCEMENT OF EXTERIOR MASONRY SHALL BE AS FOLLOWS:
      a. 1-#5 AT A MAXIMUM SPACING OF 48 INCHES
      b. 1-#5 AT EACH CORNER
      c. HEAVIER REINFORCEMENT MAY BE REQUIRED BY PLAN NOTES OR DETAILS IN THE DRAWINGS.
   2. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10 FEET ON CENTER WHERE GROUT POUR HEIGHT EXCEEDS 10 FEET.
   3. ALL VERTICAL REINFORCEMENT SHALL HAVE STANDARD HOOK INTO BOND BEAM. TERMINATE AT HIGHEST BOND BEAM IF MASONRY DOES NOT EXTEND TO ROOF OR GROUTED CELL IS NOT CONTINUOUS TO ROOF. HOOK SHALL EXTEND TO THE UPPERMOST HORIZONTAL REINFORCEMENT OF THE BOND BEAM AND HAVE A MINIMUM EMBEDMENT OF 6 INCHES.
   4. ALL HORIZONTAL REINFORCEMENT AT ENDS OF BOND BEAMS SHALL HAVE STANDARD HOOK INTO VERTICAL GROUTED CELL. PROVIDE CORNER BARS SUCH THAT HORIZONTAL REINFORCEMENT IS CONTINUOUS AROUND CORNERS.
   5. COVER TO STEEL REINFORCEMENT WITHIN MASONRY ELEMENTS SHALL NOT BE LESS THAN THE FOLLOWING:
      a. EXPOSED TO EARTH OR WEATHER: 1 ½ INCHES (#5 AND SMALLER BARS), 2 INCHES (#6 AND LARGER BARS)
      b. NOT EXPOSED TO EARTH OR WEATHER: 1 ½ INCHES
G. JOINT REINFORCEMENT:
   1. JOINT REINFORCEMENT SHALL BE LADDER TYPE, **[9 GAUGE]**, SPACED VERTICALLY AT EVERY 2 COURSES UNLESS NOTED OTHERWISE.
   2. PROVIDE JOINT REINFORCEMENT SPACED VERTICALLY AT EVERY COURSE FOR MASONRY BELOW GRADE AND IN PARAPETS AND CANTILEVERED WALLS.
   3. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT TOP AND BOTTOM OF OPENINGS (EXTEND 24 INCHES EACH SIDE).
   4. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT BOND BEAMS.
   5. OVERLAP DISCONTINUOUS JOINT REINFORCEMENT BY AT LEAST 6 INCHES.
   6. USE PREFABRICATED CORNERS AND TEES.
   7. EXTEND JOINT REINFORCEMENT A MINIMUM OF 4 INCHES INTO THE TIE BEAM.
   8. REFER TO PLANS AND DETAILS FOR BONDED JOINT REQUIREMENTS AT WALL CORNERS AND INTERSECTIONS. WHERE INDICATED ON DRAWINGS, INTERLOCK WALLS WITH METAL TIES, ANCHORS, OR PREFABRICATED JOINT REINFORCEMENT UNLESS NOTED OTHERWISE ON DRAWINGS OR SEE SPECIFICATIONS.
   9. LONGITUDINAL WIRES OF JOINT REINFORCEMENT SHALL BE FULLY EMBEDDED IN MORTAR OR GROUT WITH A MINIMUM HORIZONTAL EDGE COVER OF 5/8 INCHES WHEN EXPOSED TO EARTH AND WEATHER AND ½ INCHES WHEN NOT EXPOSED TO EARTH OR WEATHER.
H. REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH TMS 602.
I. WHERE ANCHOR BOLTS, WEDGE ANCHORS, OR ANCHORS SET IN EPOXY ARE PLACED IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.
J. USE PRESSURE-TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY.
K. CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.
L. REFER TO ARCHITECT'S DRAWINGS FOR THE EXTENT OF MASONRY WALLS AND DIMENSIONED LOCATION OF OPENINGS. NON-LOAD BERING WALLS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
M. CONCRETE MASONRY UNITS SHALL BE CUT BELOW BEAMS, LINTELS, OR BOND BEAMS AS REQUIRED IN ORDER TO SET CONTINUOUS BEAM, LINTEL, OR BOND BEAMS AT THE PROPER ELEVATION.
N. ALL CELLS BELOW GRADE AND SLAB-ON-GROUND SHALL BE FULLY GROUTED.
O. THE FOLLOWING CRITERIA REGARDING PIPES AND CONDUITS EMBEDDED IN MASONRY SHALL BE ADHERED TO (SEE MEP DRAWINGS FOR LOCATIONS OF SLEEVES, PIPES, CONDUIT, ACCESSORIES, ETC). THESE CRITERIA WILL BE STRICTLY ENFORCED.
   1. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO MASONRY AND MEETING THE CRITERIA BELOW SHALL BE PERMITTED TO BE EMBEDDED IN MASONRY. ALL OTHER CONDUITS, PIPES, AND SLEEVES SHALL NOT BE EMBEDDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
   2. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL MASONRY.
   3. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A WALL SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION. CONDUITS, PIPES, AND SLEEVES SHALL NOT PASS THROUGH JAMBS, LINTELS, BOND BEAMS, OR SHEAR WALLS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
   4. CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER.
   5. CONDUITS AND PIPES SHALL BE FABRICATED AND INSTALLED SO THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
   6. CONDUITS AND PIPES, WITH FITTINGS, EMBEDDED WITHIN A COLUMN OR WALL SHALL NOT DISPLACE MORE THAN 2 PERCENT OF THE NET SECTION OR AS REQUIRED BY FIRE PROTECTION.
P. ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION ONLY ASSUMING FULL BRACING TOP, BOTTOM, AND/OR SIDE OF WALL AS SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY AND ADEQUATELY BRACE ALL MASONRY WALLS AT ALL STAGES DURING CONSTRUCTION TO RESIST ERECTION LOADS AND LATERAL LOADS THAT COULD OCCUR PRIOR TO THE COMPLETION OF CONSTRUCTION.
Q. CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION. REFER TO TYPICAL CONTROL JOINT DETAIL FOR GUIDELINES AND SPACING.

POST-INSTALLED ANCHORS

A. POST-INSTALLED ANCHORS SHALL INCLUDE MECHANICAL, SCREW, AND ADHESIVE ANCHORS OF SIZE, NUMBER, AND SPACING AS SHOWN ON THE STRUCTURAL DRAWINGS. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE STRUCTURAL DRAWINGS.
B. MECHANICAL ANCHORS (EXPANSION ANCHORS/EXPANSION BOLTS) INTO EXISTING CONCRETE AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING PRODUCTS:
   1. KWIK BOLT TZ ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. STRONG-BOLT 2 ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. POWER-STUD+ SD2 ANCHORS MANUFACTURED BY DEWALT
C. MECHANICAL ANCHORS (EXPANSION ANCHORS/EXPANSION BOLTS) INTO EXISTING CONCRETE MASONRY AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING PRODUCTS:
   1. KWIK BOLT 3 ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. WEDGE-ALL ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. POWER-STUD+ SD1 ANCHORS MANUFACTURED BY DEWALT
D. SCREW ANCHORS INTO EXISTING CONCRETE AND CONCRETE MASONRY AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING PRODUCTS:
   1. KWIK HUS EZ ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. TITEN HD ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. SCREW-BOLT+ ANCHORS MANUFACTURED BY DEWALT
E. ADHESIVE ANCHORS (EPOXY ANCHORS/DRILL & EPOXY) INTO EXISTING CONCRETE AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING ADHESIVE PRODUCTS:
   1. HIT-HY200 EPOXY ADHESIVE WITH HAS ROD MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. AT-XP ADHESIVE MANUFACTURED BY SIMPSON STRONGTIE COMPANY WITH AN ALL-THREAD F1554 GRADE 36 STEEL ROD
   3. PURE110+ EPOXY ADHESIVE MANUFACTURED BY DEWALT WITH AN ALL-THREAD F1554 GRADE 36 STEEL ROD
F. ADHESIVE ANCHORS (EPOXY ANCHORS/DRILL & EPOXY) INTO EXISTING CONCRETE MASONRY AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING ADHESIVE PRODUCTS:
   1. HIT-HY70 INJECTION ADHESIVE WITH HAS ROD MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. AT-XP ADHESIVE MANUFACTURED BY SIMPSON STRONGTIE COMPANY WITH AN ALL-THREAD F1554 GRADE 36 STEEL ROD
   3. AC100+ GOLD MANUFACTURED BY DEWALT WITH AN ALL-THREAD F1554 GRADE 36 STEEL ROD
G. ADHESIVE FOR ANCHORING REINFORCING BARS (REBAR) INTO EXISTING CONCRETE AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING ADHESIVE PRODUCTS:
   1. HIT-HY200 EPOXY ADHESIVE MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. AT-XP ADHESIVE MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. PURE110+ EPOXY ADHESIVE MANUFACTURED BY DEWALT
H. THE GENERAL CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
I. SUBSTITUTION REQUESTS FOR ALTERNATIVE PRODUCTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER. CALCULATIONS SHALL SHOW THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE REFERENCED BUILDING CODE.
J. ALTERNATIVE PRODUCTS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL SHALL HAVE A VALID RESEARCH REPORT, ALSO KNOWN AS EVALUATION REPORT, INDICATING COMPLIANCE WITH APPROPRIATE ACCEPTANCE CRITERIA REQUIRED BY THE REFERENCED BUILDING CODE FOR THE INTENDED LOAD TYPE AND USE (E.G. WIND, SEISMIC, SUSTAINED TENSION, ETC). ALTERNATIVE PRODUCTS SUBMITTED SHALL INDICATE THAT THE ANCHOR IS PERMITTED FOR RESISTING LOADS IN CRACKED CONCRETE. RESEARCH REPORTS SHALL BE ISSUED BY A SOURCE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
K. LOCATE, BY NON-DESTRUCTIVE MEANS, ALL EXISTING REINFORCEMENT, AND AVOID DURING INSTALLATION OF ANCHORS. IF EXISTING REINFORCEMENT LAYOUT PROHIBITS THE INSTALLATION OF ANCHORS AS INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IMMEDIATELY.
L. HOLES SHALL BE DRILLED AND CLEANED, AND ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. DEFECTIVE OR ABANDONED HOLES SHALL BE FILLED WITH NON-SHRINK GROUT OR AN INJECTABLE ADHESIVE MATCHING THE ADJACENT CONCRETE COMPRESSIVE STRENGTH.
M. HOT DIPPED GALVANIZED STEEL ANCHORS SHALL BE USED AT ALL EXTERIOR LOCATIONS AND WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
N. MASONRY ANCHORS SHALL NOT BE INSTALLED IN HOLLOW CORE MASONRY. IF INSTALLATION INTO HOLLOW CORE MASONRY IS DESIRED, SUBMIT ALTERNATIVE PRODUCT FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
O. MASONRY ANCHORS SHALL NOT BE INSTALLED IN HEAD JOINTS.
P. IN ADDITION TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE FOLLOWING GUIDELINES SHALL BE FOLLOWED FOR INSTALLATION OF ADHESIVE ANCHORS:
   1. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT THE TIME OF INSTALLATION UNLESS HIGHER STRENGTH IS REQUIRED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
   2. ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DRY CONDITIONS.
   3. ADHESIVE ANCHORS SHALL BE INSTALLED IN HOLES PREDRILLED WITH A CARBIDE TIPPED DRILL BIT.
   4. ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, BUT NOT OUTSIDE OF THE DESIGN TEMPERATURE RANGE. LOADS SHALL NOT BE APPLIED TO ADHESIVE ANCHORS UNTIL THE FULL CURING TIME ASSOCIATED WITH THE INSTALLATION TEMPERATURE HAS ELAPSED.
Q. INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT.
R. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND/OR EVALUATION REPORTS, UNLESS MORE SPECIFIC REQUIREMENTS ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
S. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO RESIST SUSTAINED TENSILE LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. **[THESE ANCHORS ARE DESIGNATED ON THE DRAWINGS WITH (CERT).]**
T. CONTINUOUS INSPECTION SHALL BE PROVIDED FOR ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSILE LOADS.
U. ADHESIVE ANCHORS SHALL BE PROOF TESTED AS REQUIRED IN THE SPECIFICATIONS. EACH TYPE AND SIZE OF ANCHOR SHALL BE PROOF TESTED IN TENSION BY AN INDEPENDENT TESTING LABORATORY. TENSION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM E488 AND ACI 355.4. THE INDEPENDENT TESTING LABORATORY SHALL SUBMIT AN ANCHORAGE TESTING PLAN TO THE STRUCTURAL ENGINEER OF RECORD TO ENSURE THE TESTING REQUIREMENTS ARE FULFILLED.
V. TENSION PROOF LOADS AND PERCENTAGE OF ANCHORS TO BE TESTED ARE INDICATED ON **[S_ _ _]**. PROOF LOADING SHALL BE PERFORMED AFTER THE 28-DAY CONCRETE CURING PERIOD AND AFTER THE MINIMUM EPOXY CURING PERIOD SPECIFIED BY THE MANUFACTURER. PROOF LOADING SHALL BE PERFORMED ON PRODUCTION ANCHORS; SACRIFICIAL ANCHORS SHALL NOT BE CONSIDERED ACCEPTABLE. MAINTAIN THE PROOF LOAD AT THE REQUIRED LOAD LEVEL FOR A MINIMUM OF 10 SECONDS. **[ANCHORS WITH SUSTAINED TENSION LOADING ARE INDICATED ON THE DRAWINGS WITH (CERT).]**
W. ANCHORS SHALL HAVE NO VISIBLE INDICATIONS OF DISPLACEMENT OR DAMAGE DURING OR AFTER PROOF LOAD APPLICATION. CONCRETE CRACKING IN THE VICINITY OF THE ANCHOR AFTER LOADING SHALL BE CONSIDERED A FAILURE.
X. IF **[ANY, MORE THAN [5, 10, 25] PERCENT]** OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD WITHIN THE LIMITS DEFINED IN THESE NOTES, **[100%, AN ADDITIONAL [25, 50] PERCENT]** OF THE ANCHORS OF THE SAME DIAMETER AND TYPE AS THE FAILED ANCHOR SHALL BE PROOF TESTED.
Y. IN THE EVENT OF FAILURE TO ACHIEVE PROOF LOAD OR EXCESSIVE DISPLACEMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO THE CONCRETE.
Z. HOLE DRILLING AND INSTALLATION OF ADHESIVE ANCHORS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE INSTALLED IN CONCRETE DRY CONDITION.

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(239) 332-1171

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GROUP
10461 SIX MILE CYPRESS PKWY, UNIT 501
FORT MYERS, FL 33966
T 239.277.7771
www.jezerinacgroup.com
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S002

CONCRETE MIXTURE REQUIREMENTS

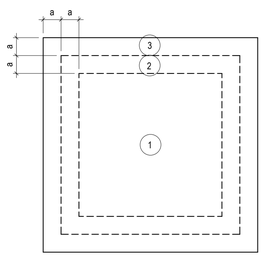
APPLICATION	EXPOSURE CLASS	f'c	TEST AGE	MODULUS OF ELASTICITY	MAXIMUM W/CM	AIR CONTENT	NOMINAL MAXIMUM AGGREGATE	MAXIMUM CONCRETE WEIGHT
FOOTINGS	F0	3000 PSI	28 DAYS	3122 KSI	SEE NOTE 2	SEE NOTE 3	1"	150 PCF
EXTERIOR SLAB-ON-GROUND	F1	4500 PSI	28 DAYS	3824 KSI	0.55	4.5% ± 1.5%	1"	150 PCF
SLAB-ON-GROUND	F0	3000 PSI	28 DAYS	3122 KSI	SEE NOTE 2	SEE NOTE 3	1"	150 PCF
ELEVATED SLABS & BEAMS	F0	5000 PSI	28 DAYS	4031 KSI	SEE NOTE 2	SEE NOTE 3	3/4"	150 PCF

NOTES:

1. EXPOSURE CATEGORIES AND CLASSES FOR SULFATES, PERMEABILITY, AND CORROSION PROTECTION OF REINFORCEMENT IS CLASS ZERO UNLESS NOTED OTHERWISE.
2. WATER/CEMENT RATIO SHALL BE AS REQUIRED FOR THE SPECIFIED CONCRETE MIX DESIGN. THERE IS NO MAXIMUM WATER/CEMENT RATIO REQUIREMENT FOR THE EXPOSURE CLASSIFICATION ASSOCIATED WITH THIS APPLICATION. MAXIMUM WATER/CEMENT RATIO IS NOT APPLICABLE FOR DURABILITY REQUIREMENTS IN LIGHTWEIGHT CONCRETE.
3. THERE IS NO MANDATORY TARGET AIR CONTENT FOR THIS APPLICATION. THE CONTRACTOR MAY CHOOSE TO ADD AIR ENTRAINMENT TO IMPROVE THE WORKABILITY AND FINISHING PROPERTIES OF THE MIX. AIR CONTENT SHALL BE AS REQUIRED FOR THE SPECIFIED CONCRETE MIX.

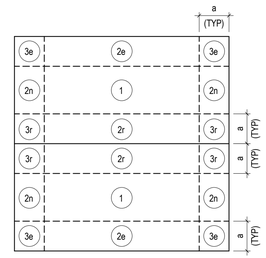
CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) CLEAR COVER SCHEDULE

APPLICATION	BOTTOM	TOP	SIDES
FOUNDATIONS	3"	2"	3"
SLAB-ON-GROUND	SEE DETAILS	SEE DETAILS	3"
RETAINING WALLS	N/A	N/A	2"
WALLS	N/A	N/A	¾" (2")
COLUMNS	N/A	N/A	1 ½" (2")
ELEVATED SLABS	¾" (2")	¾" (2")	¾" (2")
BEAMS	1 ½" (2")	1 ½" (2")	1 ½" (2")



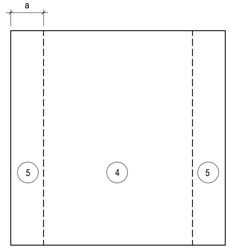
a = 3'-8"

TYPICAL OPEN STRUCTURE COMPONENT AND CLADDING GROSS WIND PRESSURES (BUS CANOPY)



a =3'-8"

GABLE ROOF 7° < SLOPE ≤ 45° COMPONENT AND CLADDING GROSS WIND PRESSURES (SUPPORT BUILDING)



a = 3'-8"

WALL ELEVATION

COMPONENTS & CLADDING EXTERNAL PRESSURE LOADS (PSF)

EFFECTIVE WIND AREA (FT²)	1	2	3
<10	-44 48	-68 72	-133 96
20	-44 48	-68 72	-68 72
50	-44 48	-44 48	-44 48

COMPONENTS & CLADDING EXTERNAL PRESSURE LOADS (PSF)

EFFECTIVE WIND AREA (FT²)	1	2e	2n	2r	3e	3r
<10	-97 53	-97 53	-107 53	-97 53	-131 53	-107 53
20	-83 47	-83 47	-96 47	-83 47	-116 47	-96 47
50	-63 39	-63 39	-81 39	-63 39	-97 39	-81 39
>100	-48 33	-48 33	-69 33	-48 33	-82 33	-69 33

COMPONENTS & CLADDING EXTERNAL PRESSURE LOADS (PSF)

EFFECTIVE WIND AREA (FT²)	4	5
<10	-63 58	-78 58
50	−57 52	-66 52
100	−54 49	-60 49
500	−48 43	−48 43

NOTES:

1. FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD SHALL BE TAKEN FROM THE NEXT LOWEST TABULATED EFFECTIVE AREACH
2. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.
3. a = '-'. SEE ROOF PLAN MAP BELOW FOR LOCATION OF a-ZONES. WALL a-ZONE LOCATIONS TO MATCH ROOF a-ZONES.
4. POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING OR COMPONENT FACE, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING OR COMPONENT FACE.
5. EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
6. PARAPET COMPONENTS AND CLADDING ARE THOSE ELEMENTS WHICH EXIST ABOVE THE HORIZONTAL PLANE OF THE ROOF AND SHALL BE DESIGNED FOR:
   - POSITIVE AND NEGATIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON OUTSIDE FACE.
   - POSITIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.
   - NEGATIVE PRESSURES 2 OR 3 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.
   - P4/5 SHALL BE APPLIED TO THE DESIGN OF THE STRUCTURAL ELEMENT OF THE PARAPET AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE PARAPET.
7. A DESIGN WIND PRESSURE HORIZONTAL VALUE OF ___ PSF AND VERTICAL VALUE OF __ PSF SHALL BE APPLIED TO COMPONENTS WHICH ARE EITHER ROOFTOP STRUCTURES OR ROOFTOP APPURTENANCES AND THEIR CONNECTION. EXAMPLES OF THIS ARE RTUs, AHUs, AND SCREEN WALLS.
8. ROH# : DENOTES DESIGN WIND PRESSURE VALUES WHICH SHALL BE APPLIED AT ROOF OVERHANGS TO TOP SURFACE CLADDING OR SHEATHING AND ITS CONNECTION. SOFFIT CLADDING OR SHEATHING SHALL BE DESIGNED FOR SIMILAR PRESSURE TO THE ADJACENT WALL PRESSURE. A COMBINATION OF THESE FORCES SHALL BE APPLIED TO THE STRUCTURAL ELEMENT OF THE OVERHANG AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE OVERHANG.
9. ALL DOORS TO BE RATED TO RESIST DESIGN WIND PRESSURES SPECIFIED.

ABBREVIATIONS

ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT OR ARCHITECTURAL
ASD	ALLOWABLE STRESS DESIGN
B/	BOTTOM OF
B/B	BACK-TO-BACK
BLDG	BUILDING
BLKG	BLOCKING
BP	BASE PLATE
BRG	BEARING
BOT	BOTTOM
BTWN	BETWEEN
C	COMPRESSION
CFS	COLD-FORMED STEEL
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR OR CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN(S)	CONNECTION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
D&E	DRILL & EPOXY
db	REINFORCING BAR DIAMETER
DBA	DEFORMED BAR ANCHOR
DCW	DEMAND CRITICAL WELD
°	DEGREE(S)
Ø	DIAMETER
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DL	DEAD LOAD
DWG(S)	DRAWING(S)
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EOS	EDGE-OF-SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/F	FACE-TO-FACE
FD	FLOOR DRAIN
FF	FINISH FLOOR
FND	FOUNDATION
FS	FAR SIDE
FT	FEET
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GDR	GIRDER
GEN	GENERAL
GYP	GYPSUM
HCA	HEADED CONCRETE ANCHORS
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INFO	INFORMATION
INT	INTERIOR
ICC-ES	INTERNATION CODE COUNCIL - EVALUATION SERVICE
JST(S)	JOIST(S)
K	KIPS (1,000 POUNDS)
KLF	KIP PER LINEAR FOOT
KSF	KIP PER SQUARE FOOT

ABBREVIATIONS

KSI	KIPS PER SQUARE INCH
L	LENGTH
LB(S)	POUND(S)
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LRFD	LOAD RESISTANCE FACTORED DESIGN
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LTS	LAP TENSION SPLICE
LW	LIGHT WEIGHT
LWC	LIGHT WEIGHT CONCRETE
M	MOMENT
MAX	MAXIMUM
MC	MOMENT CONNECTION(S)
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG(S)	OPENING(S)
OPP	OPPOSITE
OSL	OUTSTANDING LEG
PAF	POWDER ACTUATED FASTENER
PERP	PERPENDICULAR
PJF	PREFORMED JOINT FILLER
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PCST	PRECAST
PREFAB	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
REF	REFERENCE
REINF	REINFORCE(D) (ING) OR (MENT)
REQ(D)	REQUIRE(D)
REV	REVISION
RTU	ROOF TOP UNIT
SCHED	SCHEDULE(D)
SDL	SUPERIMPOSED DEAD LOAD
SER	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT (FEET)
SIM	SIMILAR
SLRS	SEISMIC LOAD RESISTING SYSTEM
SOG	SLAB-ON-GROUND
SP	SPACE
SPEC(S)	SPECIFICATION(S)
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STR	STRUCTURE OR STRUCTURAL
SYM	SYMMETRICAL
T	TENSION
T&B	TOP AND BOTTOM
T&G	TONGUE & GROOVE
T/	TOP OF
TEMP	TEMPERATURE OR TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	SHEAR
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

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T 239.277.7771
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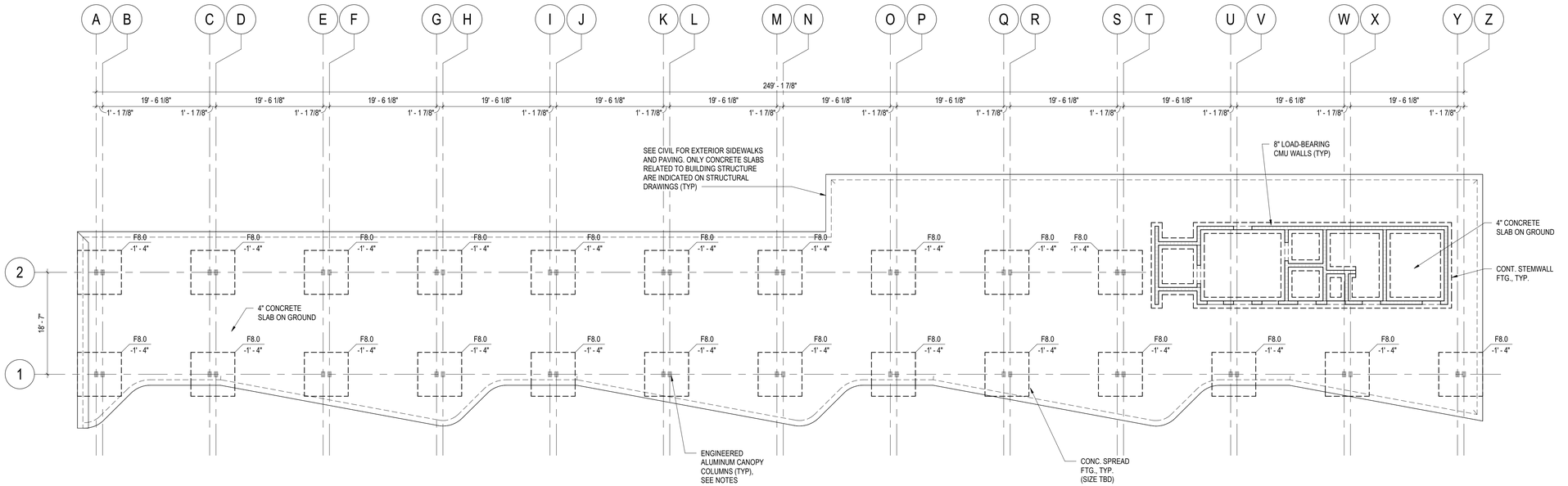
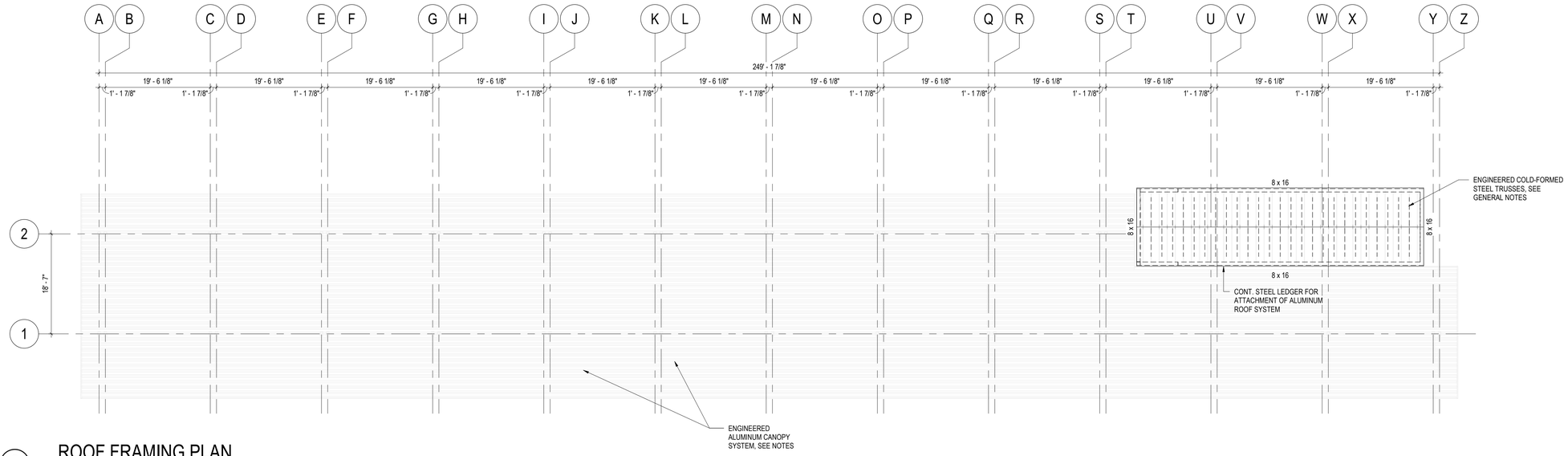


1 FOUNDATION PLAN

3/32" = 1'-0"



2 ROOF FRAMING PLAN

3/32" = 1'-0"

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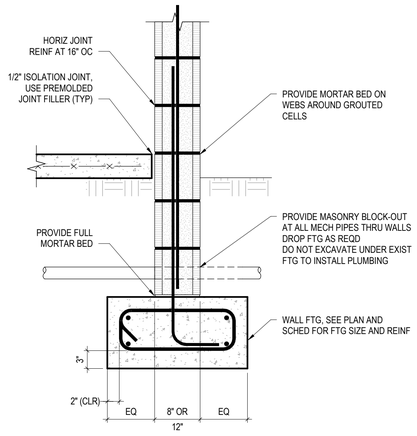
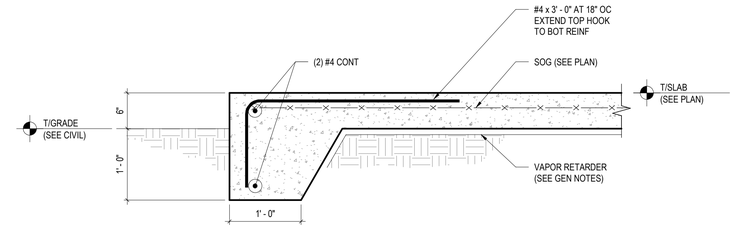


WALL FOOTING DETAIL AT EXTERIOR

1 DETAIL

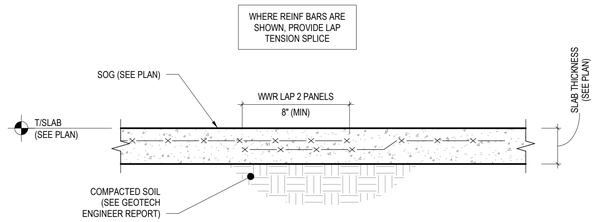
1" = 1'-0"



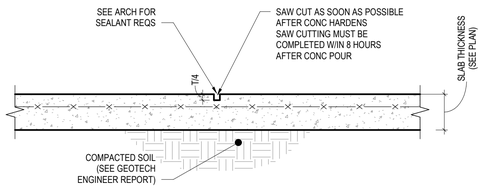
TYPICAL SLAB EDGE

2 DETAIL

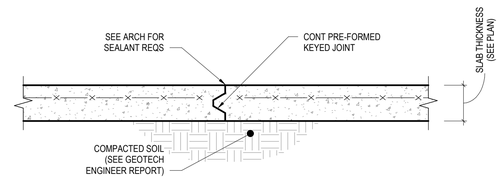
1" = 1'-0"



SLAB-ON-GROUND



SAW CUT JOINT



CONSTRUCTION JOINT

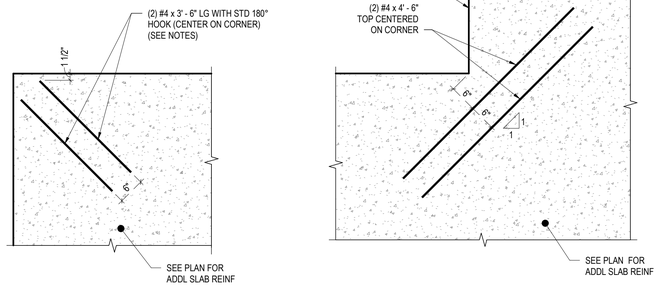
NOTES:

1. WHERE NOT INDICATED ON PLAN PROVIDE JOINTS AT COLUMN CENTER LINES AND BETWEEN COLUMN CENTER LINES WITH SPACING OF JOINTS NOT TO EXCEED 36 TIMES THE SLAB THICKNESS

TYPICAL SLAB-ON-GROUND DETAILS

3 DETAIL

1" = 1'-0"



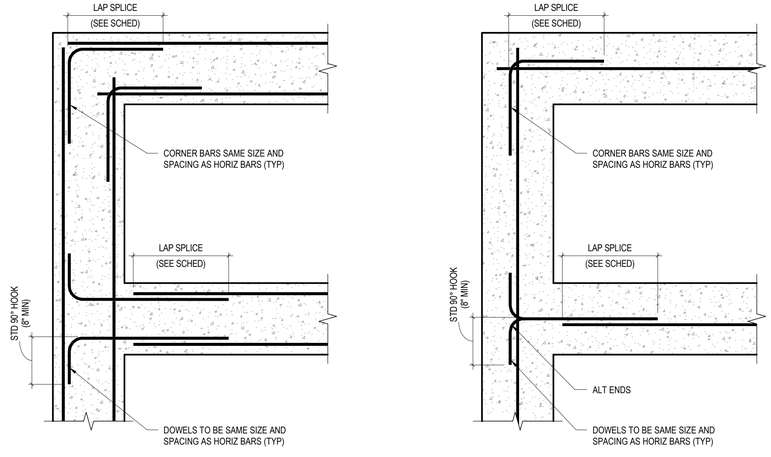
TYPICAL ADDITIONAL SLAB CORNER REINFORCEMENT

NOTES:

1. INSTALL BELOW TOP LAYER OF SLAB REINFORCING.

4 DETAIL

3/4" = 1'-0"



TYPICAL CORNER BARS FOR CONCRETE WALL AND FOOTING CONSTRUCTION

5 DETAIL

1" = 1'-0"

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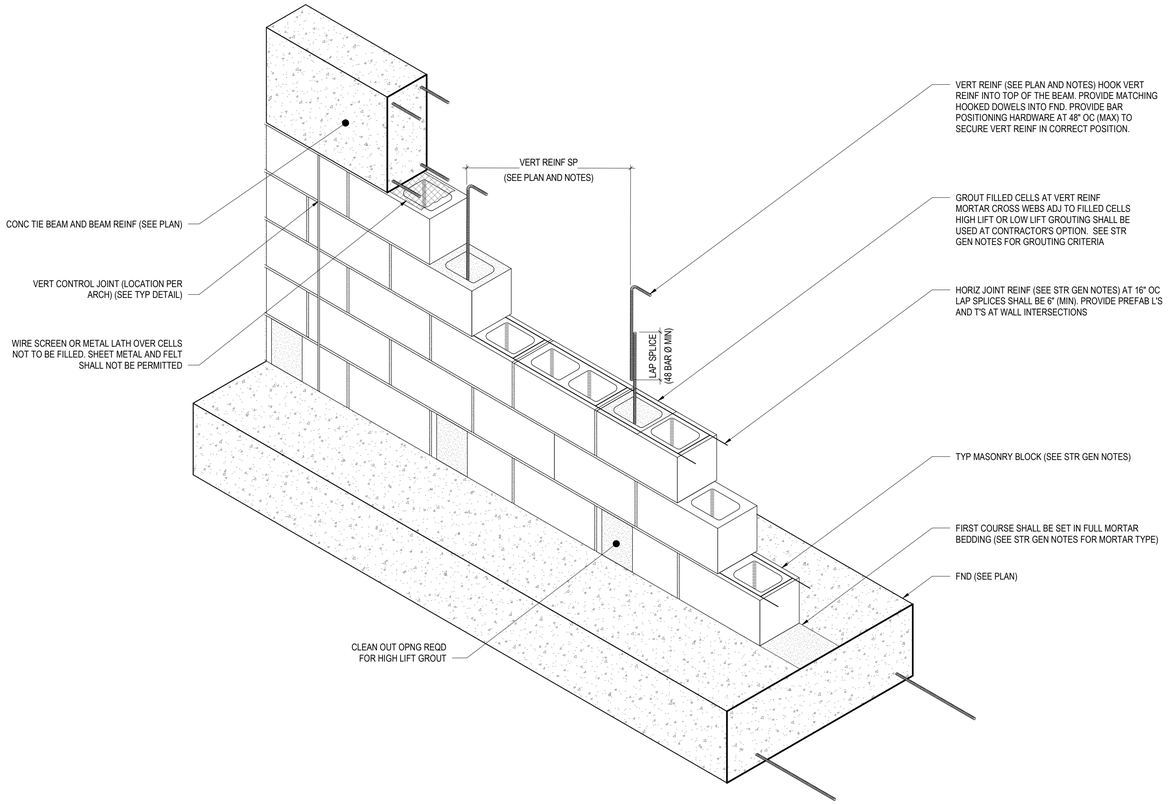
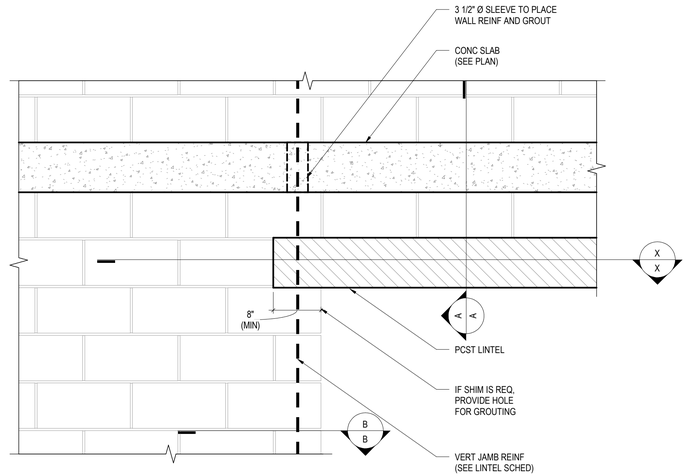


CMU WALL CONSTRUCTION

1 DETAIL

1" = 1'-0"

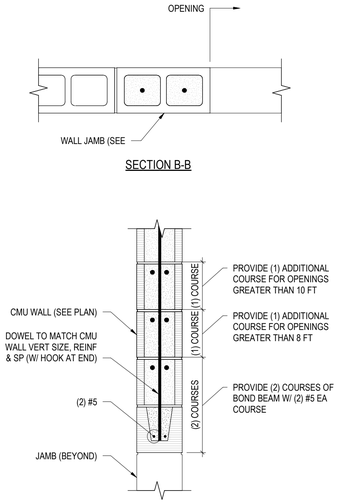


SECTION X-X

CMU PRECAST LINTEL SUPPORT

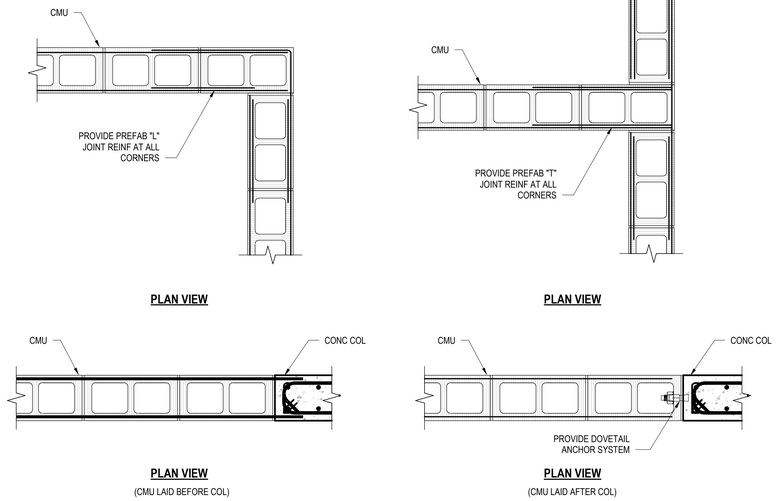
2 SECTION

1" = 1'-0"



SECTION B-B

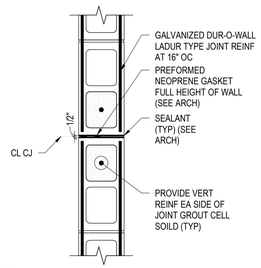
SECTION A-A



TYPICAL CMU JOINT REINFORCEMENT

3 DETAIL

1" = 1'-0"



NOTES:

1. HORIZONTAL JOINT REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINT. TIE BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINT.
2. CMU CONTROL JOINT LOCATIONS SHALL BE AS SPECIFIED BY ARCHITECT. JOINTS SHALL NOT OCCUR WITHIN 24" FROM THE CENTERLINE OF REINFORCED PILASTERS OR WITHIN 24" OF WALL OPENINGS.

CMU CONTROL JOINT

4 DETAIL

1" = 1'-0"

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HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION
	-CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-ROUND DIFFUSER
	-CEILING RETURN
	-CEILING EXHAUST
	-CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
	-RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
1	-REVISION REFERENCE
1 / M-1	-DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON
T	-THERMOSTAT/TEMPERATURE SENSOR
H	-HUMIDISTAT/HUMIDITY SENSOR
	-DUCT SMOKE DETECTOR
	-CONNECT TO EXISTING
	-DEMOLISH TO POINT INDICATED
M	-MOTORIZED CONTROL DAMPER
TS	-TEMPERATURE SENSOR
P	-PRESSURE SENSOR
BD	-BACKDRAFT DAMPER
N	-NEUTRAL RELATIVE PRESSURE
+	-POSITIVE RELATIVE PRESSURE
-	-NEGATIVE RELATIVE PRESSURE
1	-SHEET NOTE CALLOUT
1	-SHEET NOTE CALLOUT
1	-SHEET NOTE CALLOUT
	-CEILING MOUNTED ACCESS DOOR
	-SQUARE THROAT ELBOW W/TURNING VANES
	-RADIUS ELBOW
	-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF
	-EXHAUST DUCT UP THROUGH SLAB W/ FAN ON ROOF ABOVE
	-EXHAUST FAN ON ROOF W/ DUCT DOWN THROUGH ROOF

SYMBOL	DESCRIPTION
	-FIRE DAMPER (WITH ACCESS PANEL)
	-FIRE & SMOKE DAMPER (WITH ACCESS PANEL)
	-EXISTING FIRE DAMPER TO REMAIN
	-EXISTING FIRE & SMOKE DAMPER TO REMAIN
SA-1	-SOUND ATTENUATOR
M	-MOTOR OPERATED CONTROL DAMPER (MOD)
FM	-AIR FLOW MEASURING STATION
	-MANUAL BALANCING DAMPER
	-DOOR GRILLE
	-UNDERCUT DOOR
M	-ACCESS DOORS, VERTICAL OR HORIZONTAL
	-STAINLESS STEEL DUCTWORK
	-FLEXIBLE CONNECTION
12x80	-NEW FLAT OVAL DUCT
24x12	-NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN
24x12	-EXISTING DUCTWORK TO REMAIN
24x12	-EXISTING DUCTWORK TO BE REMOVED
24x12 DOWN / UP W/IN FLOOR	-DUCT ELBOW, POSITIVE PRESSURE (SUPPLY), FIRST DIMENSION INDICATES SIDE TO WHICH ARROW IS POINTING
	-DUCT ELBOW, EXHAUST
	-DUCT ELBOW, NEGATIVE PRESSURE, RETURN
	-DUCT ELBOW UP THROUGH ROOF OR SLAB ABOVE
	-RECTANGULAR DUCT SECTION UP, POSITIVE PRESSURE, SUPPLY OR OUTSIDE AIR
	-RECTANGULAR DUCT SECTION UP, NEGATIVE PRESSURE, RETURN
	-RECTANGULAR DUCT SECTION UP, EXHAUST
	-ROUND DUCT SECTION UP
	-FLAT OVAL DUCT SECTION UP

SYMBOL	DESCRIPTION
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED, WITH ELECTRIC HEAT
	-ELECTRIC DUCT HEATER (W/ PANEL CLEARANCE)
	-HYDRONIC REHEAT COIL
	-INLINE CENTRIFUGAL FAN
	-PACKAGED TERMINAL AIR CONDITIONER (PTAC)
UP / DN	-CHANGE OF ELEVATION
	-FLEXIBLE DUCT
	-TRANSITION, CONCENTRIC
	-TRANSITION, ECCENTRIC
10x8 / 8"	-TRANSITION, SQUARE TO ROUND
	-SQUARE THROAT TEE
12x8	-RADIUS TEE
	-RECTANGLE-TO-ROUND TAKE-OFF
	-STANDARD BRANCH TAKE-OFF
	-SPIN-IN TAKE-OFF

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFD	-ADJUSTABLE FREQUENCY DRIVE	LD	-LINEAR DIFFUSER
AFF	-ABOVE FINISHED FLOOR	MBH	-THOUSAND BTUs PER HOUR
AFR	-ABOVE FINISHED ROOF	MCA	-MINIMUM CIRCUIT AMPS
AHU	-AIR HANDLING UNIT	MOCP	-MAXIMUM OVER CURRENT PROTECTION
AP	-ACCESS PANEL	MOD	-MOTOR OPERATED CONTROL DAMPER (MOD)
BOP	-BOTTOM OF PIPE	NC	-NORMALLY CLOSED
BHP	-BRAKE HORSEPOWER	NO	-NORMALLY OPEN
BTU	-BRITISH THERMAL UNIT	NTS	-NOT TO SCALE
CL	-CENTER LINE	OA	-OUTSIDE AIR
CFM	-CFM (CUBIC FEET PER MINUTE)	OAL	-OUTSIDE AIR LOUVER
CD	-CEILING DIFFUSER	PRV	-PRESSURE REDUCING VALVE
CT	-COOLING TOWER	PRS	-PRESSURE REDUCING STATION
CV	-CONSTANT AIR VOLUME	PSI	-POUNDS PER SQUARE INCH
ΔP	-CHANGE IN PRESSURE	PSIG	-PSI GAUGE
ΔT	-CHANGE IN TEMPERATURE	PTAC	-PACKAGED TERMINAL AIR CONDITIONER
CFM	-CUBIC FEET PER MINUTE	PVC	-POLYVINYL CHLORIDE PIPE
CU	-CONDENSING UNIT	RA	-RETURN AIR
DDC	-DIRECT DIGITAL CONTROLS	RHC	-REHEAT COIL
DN	-DOWN	RHP	-ROOFTOP HEAT PUMP
EAT	-ENTERING AIR TEMPERATURE	RPM	-REVOLUTIONS PER MINUTE
ESP	-EXTERNAL STATIC PRESSURE	RS/L	-REFRIGERANT SUCTION & LIQUID LINES
EWT	-ENTERING WATER TEMPERATURE	RTU	-ROOFTOP AIR HANDLING UNIT
FCU	-FAN COIL UNIT	SA	-SUPPLY AIR
FD	-FIRE DAMPER	SP	-STATIC PRESSURE
FF	-FINAL FILTERS	TSP	-TOTAL STATIC PRESSURE
FLA	-FULL LOAD AMPS	UNO	-UNLESS NOTED OTHERWISE
FPM	-FEET PER MINUTE	V/PH	-VOLTS/PHASE
GPM	-GALLONS PER MINUTE	VAV	-VARIABLE AIR VOLUME
KW	-KILOWATT	VFD	-VARIABLE FREQUENCY DRIVE
LAT	-LEAVING AIR TEMPERATURE		
LWT	-LEAVING WATER TEMPERATURE		

HVAC GENERAL NOTES

1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT.
3. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
4. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
5. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
6. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
7. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
8. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
9. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
10. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
16. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.
18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS.
19. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
20. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.
21. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER.
22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS.
24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
25. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.
26. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
27. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING.
28. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.

HVAC PIPING SYMBOL LEGEND

SYMBOL	DESCRIPTION
CWS	-CONDENSER WATER SUPPLY
CWR	-CONDENSER WATER RETURN
CHWS	-CHILLED WATER SUPPLY
CHWR	-CHILLED WATER RETURN
CD	-CONDENSATE
CR	-CONDENSATE RETURN
PC	-PUMPED CONDENSATE
HWR	-HOT WATER RETURN
HWS	-HOT WATER SUPPLY
HPS	-HIGH PRESSURE STEAM SUPPLY
MPS	-MEDIUM PRESSURE STEAM SUPPLY
LPS	-LOW PRESSURE STEAM SUPPLY
HPR	-HIGH PRESSURE STEAM RETURN
MPR	-MEDIUM PRESSURE STEAM RETURN
LPR	-LOW PRESSURE STEAM RETURN
RL	-REFRIGERANT LIQUID
RS	-REFRIGERANT SUCTION
	-TEE, OUTLET DOWN
	-TEE, OUTLET UP
D / D	-45° PIPE RISE (R) / DROP (D)
	-PIPE ANCHORS
	-CONCENTRIC REDUCER
	-ECCENTRIC REDUCER

SYMBOL	DESCRIPTION
	-FLOW DIRECTION
	-GATE VALVE
	-BALL VALVE
	-CALIBRATING BALANCING VALVE
	-BUTTERFLY VALVE
	-GAS COCK
	-UNION
	-STRAINER
	-CONTROL VALVE
	-SOLENOID VALVE
	-PSI REG.
	-CHECK VALVE
	-FLOW SWITCH
	-SLOPE DIRECTION (DOWN)
	-FLEX CONNECTION
	-O.S.&Y. GATE VALVE
	-STEAM TRAP
	-THREE-WAY CONTROL VALVE
	-THERMOMETER

SYMBOL	DESCRIPTION
EQUIP.	- P-TRAP
	-TWO-WAY CHECK VALVE
MV	-MANUAL VENT
	-PRESSURE GAUGE
	-RELIEF VALVE
FM	-FLOW METER
M	-WATER METER
	-INLINE PUMP
	-INLINE PUMP
	-VALVE ON RISER
	-CAP
	-CONNECTION, BOTTOM
	-CONNECTION, TOP
	-COUPLING
	-ELBOW, 90°
	-ELBOW, 45°
	-ELBOW, TURNED DOWN
	-ELBOW, TURNED UP

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

HVAC EQUIPMENT TAGS

TAG: A / 200 / CFM — -AIR DISTRIBUTION DEVICE

AHU NUMBER: AHU-1 — -AIR HANDLING UNIT

AHU NUMBER: RHC-1-1 / COIL NUMBER — -REHEAT COIL

VARIABLE/CONSTANT AIR VOLUME TERMINAL UNITS

TERMINAL UNIT TYPE
- VTU - VARIABLE TERMINAL UNIT
- CTU - CONSTANT TERMINAL UNIT
- PTU - PARALLEL TERMINAL UNIT
- STU - SERIES TERMINAL UNIT

VTU-1-1: AHU NUMBER / TERMINAL NUMBER

MECHANICAL DRAWING INDEX

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(239) 332-1171
2136 McGREGOR BLVD. FORT MYERS, FLORIDA 33901

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1121 VILLAGE LAKES BLVD., LEHIGH ACRES, FLORIDA
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07/01/2022

M001

TLC ENGINEERING SOLUTIONS
13099 S. Cleveland Avenue, Suite 500
Fort Myers, FL 33907
P 239.275.4240
COA 15
www.tlc-engineers.com
TLC No.:721030

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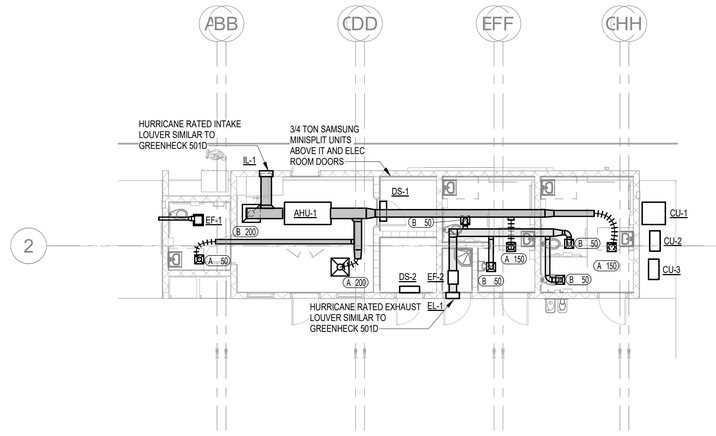

2

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

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2136 McGREGOR BLVD. FORT MYERS, FLORIDA 33901 (239) 332-1171

REVISIONS

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TLC ENGINEERING SOLUTIONS
13099 S. Cleveland Avenue,
Suite 500
Fort Myers, FL 33907
P 239.275.4240
COA 15
www.tlc-engineers.com
TLC No.:721030
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AHU SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NO.	CU MODEL NO.	SERVICE	UNIT CONFIGURATION	UNIT SECTIONS	AIRFLOW			EXT. SP	FAN DATA						HEAT PUMP - COOLING							HEAT PUMP - HEATING			HOT GAS REHEAT			EER	ELECTRICAL DATA								UNIT WEIGHT, LBS
							TOTAL CFM	OA CFM	FILTER		FAN TYPE	FAN QTY.	FAN RPM EA	TOTAL BHP	MOTOR HP	VFD OR ECM	EAT		LAT		CAPACITY		FACE VEL. FPM	CAPACITY (MBH)	EAT	LAT	CAPACITY (MBH)	MAX LAT			AIR HANDLER				CONDENSING UNIT				
																	DB	WB	DB	WB	SEN. MBH	TOTAL MBH					DB	WB		VOLT/PHASE	FLA	MCA	MOCP	VOLT/PHASE	FLA	MCA	MOCP	
AHU-1	AAON	H3-ARB-8	CBB 036		HORIZONTAL	FILTER/DX COIL/HGRH COIL/ACCESS/FAN	700	600	MERV-13	1.00		1			1	ECM					21	36		40.5			14				208/3	3	4	15	208/3	15	17	25	450

DX SPLIT SYSTEM SCHEDULE

MARK	AREA SERVED	PLAN MARK CU	EMERGENCY POWER REQUIRED	UNIT TYPE	AH MODEL	CU MODEL	TOTAL COOLING CAPACITY (BTU/H)	HEATING CAPACITY (BTU/H)	REF. TYPE	SEER	CFM	VOLTAGE	MCA	MOCP	FLA
DS-1		CU-2	No	WALL MOUNTED	AC009BN	AC009BX	9000	-				208	10.9	15	
DS-2		CU-3	No	WALL MOUNTED	AC009BN	AC009BX	9000	-				208	10.9	15	

FAN SCHEDULE

PLAN MARK	MODEL	AREA SERVED	TYPE	TOTAL CFM	EXT. SP (IN WG.)	MAX FAN BHP	MOTOR HP	MOTOR RPM	ELECTRICAL DATA		WEIGHT (lb)	NOTES
									FLA	VOLTS/PHASE		
EF-1	SP-A50	INDIVIDUAL RR	CEILING MOUNTED	50	0.1	-	-	-	0.3	115/1	15	
EF-2	SQ-80-VG	PUBLIC RR	INLINE	250	0.5	0.06	1/10	1725	2.5	115/1	40	

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(239) 332-1171

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Suite 500
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P 239.275.4240
COA 15
www.tlc-engineers.com
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ELECTRICAL SYMBOL LEGEND

BASIC MATERIALS

SYMBOL	DESCRIPTION
	DEVICE ABBREVIATION TAGS:
6C	POKE-THRU WITH 6" CORE DRILL
8C	POKE-THRU WITH 8" CORE DRILL
4G	FOUR-GANG FLOOR BOX
6G	SIX-GANG FLOOR BOX
8G	EIGHT-GANG FLOOR BOX
AV	DOUBLE DUPLEX RECEPTACLE WITH DEDICATED CIRCUIT FOR AV RACK OR CART
C	RECEPTACLE CONTROLLED PER ASHRAE 90.1 (2010); PROVIDE POWER PACK FOR RECEPTACLE CIRCUIT, TO BE CONTROLLED THROUGH LOCAL ROOM OCCUPANCY SENSOR(S); PROVIDE DEVICE WITH BLUE DOT OR UNIVERSAL POWER SYMBOL
ETR	EXISTING TO REMAIN
IG	ISOLATED GROUND (ORANGE DEVICE)
RL	RELOCATED
TR	TAMPER RESISTANT
TV	RECEPTACLE MOUNTED ADJACENT TO TV OUTLET, COORDINATE HEIGHT W/ ARCHITECT
U	DUPLEX RECEPTACLE WITH (2) USB PORTS
WP	WEATHERPROOF
S_a	SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_K	SINGLE POLE KEY SWITCH
S_T	DIGITAL TIMER SWITCH W/ 5 MIN. WARNING FLASH
S_{OSab}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, DUAL RELAY
S_{OS}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
S_{VS}	WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR SWITCH
$S_{D,OS}$	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH
S_{LV}	LOW VOLTAGE SWITCH
S_{LVO}	LOW VOLTAGE OVERRIDE SWITCH
S_{LVD}	LOW VOLTAGE OVERRIDE SWITCH WITH DIMMING
S_F	FAN SWITCH
S_M	MOTOR RATED SWITCH
SD	DIMMER SWITCH, LINE VOLTAGE
OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
DL	DAYLIGHT SENSOR CEILING MOUNTED
DL	DAYLIGHT SENSOR WALL MOUNTED
VS	VACANCY SENSOR CEILING MOUNTED
VS	VACANCY SENSOR WALL MOUNTED
PC	PHOTOCELL, MOUNTED ON ROOF FACING NORTH
	NOTE: DIAGONAL MARKS INDICATED ON ANY DEVICE REPRESENTS DEVICE CONNECTED TO EMERGENCY CIRCUIT (RED DEVICE FOR RECEPTACLE); TYPICAL FOR ANY DEVICE IN LEGEND
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
U	COMBINATION DUPLEX RECEPTACLE / USB OUTLET
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVER MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE: EACH RECEPTACLE ON SEPARATE CIRCUIT (PROVIDE BREAKER WITH 2-POLE COMMON TRIP HANDLE)
	SPLIT-WIRED CONTROLLED DUPLEX RECEPTACLE
	GFCI RECEPTACLE; "WP" INDICATES CAST METAL "IN-USE" WEATHERPROOF COVER, WEATHER-RESISTANT LISTED
	TWO GFCI DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE
	GFCI RECEPTACLE MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE, CEILING MOUNTED
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE, CEILING MOUNTED
	PEDESTAL MOUNTED DUPLEX RECEPTACLE
	FLOOR BOX WITH DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE
	FLOOR BOX, TWO DUPLEX RECEPTACLES (QUAD) WITH APPROPRIATE FLANGE
	MULTI-SERVICE FLOOR BOX WITH DUPLEX RECEPTACLE, VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) , VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	MULTI-SERVICE POWER & DATA FLOOR BOX WITH FURNITURE FEED CONNECTION (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS NOTED
J	JUNCTION BOX WALL MOUNTED
J	JUNCTION BOX MOUNTED IN OR ABOVE CEILING OR IN STRUCTURE
	WALL MOUNTED FURNITURE FEED POWER CONNECTION
PP	POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS
PP	POWER POLE WITH POWER & DATA OUTLETS
P	MULTI-SERVICE POKE-THRU WITH TWO INTEGRAL DUPLEX RECEPTACLES AND VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS), OR FURNITURE FEED CONNECTION; REFER TO POKE-THRU DETAILS
	MULTI-SERVICE RACEWAY WITH 5-20R RECEPTACLES, 18" O.C. UNLESS OTHERWISE NOTED
C	CLOCK RECEPTACLE, WALL MOUNTED
GND	GROUND BUS BAR, COPPER
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT-TRIP PUSHBUTTON; SEMI-FLUSH WALL MOUNTED UNLESS OTHERWISE NOTED; NEMA 3R FOR EXTERIOR LOCATIONS
EPO	EMERGENCY POWER OFF SHUNT-TRIP PUSHBUTTON, RED MUSHROOM HEAD, CLEAR LEXAN PROTECTIVE COVER

SYMBOL	DESCRIPTION
	OVERHEAD DOOR PUSHBUTTON CONTROL STATION
	PUSHBUTTON STATION
	MOTOR CONNECTION
MD	MOTORIZED DAMPER CONNECTION
VFD	VARIABLE FREQUENCY DRIVE
DDC	DIRECT DIGITAL CONTROL PANEL
BAS	BUILDING AUTOMATION SYSTEM CONTROL PANEL
LCP	LIGHTING CONTROL PANEL
MH	MANHOLE
PB	PULLBOX
HH	HANDHOLE
T	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH
30AR NF 3R	NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED NON-FUSED DISCONNECT SWITCH, RATING AS NOTED NF = NON-FUSED AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE
30AR 20AF 3R	NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED FUSED DISCONNECT AF = AMPERE RATING OF FUSE AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE
MCP AMPERE RATING 30/3 6 3R	# OF POLES NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED, 3-POLE UNLESS OTHERWISE NOTED 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE NEMA STARTER SIZE
	SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL
	BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, FLUSH MOUNTED
	CONDUIT CONCEALED ABOVE CEILING OR IN WAL
	CONDUIT EXPOSED
	CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR
	CONDUIT HOMERUN TO ELECTRICAL PANEL
UP	CONDUIT TURNING UP
DN	CONDUIT TURNING DOWN
	CONDUIT STUBBED OUT OR UP
	CONDUIT CONTINUED
	FLEXIBLE CONDUIT
	CONDUIT SEAL-OFF FITTING
	GROUND OR GROUND ROD AS NOTED
	EXISTING TO BE REMOVED (HEAVY, DASHED LINE)
	EXISTING TO REMAIN (LIGHT, SOLID LINE)
	NEW (HEAVY, SOLID LINE)

LIGHTNING PROTECTION SYSTEM

SYMBOL	DESCRIPTION
CI	CLASS I MAIN CONDUCTOR CABLE
CII	CLASS II MAIN CONDUCTOR CABLE
	TEE SPLICE
	FOUR-WAY SPLICE
	BONDING PLATE
	PIPE CLAMP FOR PLUMBING VENT THRU ROOF. AIR TERMINAL; PROVIDE PARAPET TYPE BASE WHERE MOUNTED ON PARAPET; PROVIDE FLAT BASE FOR MECHANICAL EQUIPMENT OR ROOF PERIMETER WITH NO PARAPET; PROVIDE BLUNT TIP WHERE MOUNTED ON INTERIOR OF ROOF, UNLESS OTHERWISE NOTED ON LIGHTNING PROTECTION PLANS
P	PARAPET MOUNTED AIR TERMINAL
F	FLAT ROOF MOUNTED OR MECHANICAL
G	COUNTERPOISE CONDUCTOR
DN DN	THRU-ROOF CONDUCTOR
	GROUND TERMINAL
	BONDING CONDUCTOR
DN	DOWN CONDUCTOR

FIRE ALARM / DETECTION SYSTEM

SYMBOL	DESCRIPTION
	NFPA / LEGACY
F F	MANUAL PULL STATION
S	CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED E = ELEVATOR WITH RECALL CONTACTS I = IONIZATION
S	DUCT SMOKE DETECTOR R = RETURN S = SUPPLY
S_{SR} B_R	BEAM SMOKE DETECTOR BR OR R = BEAM DETECTOR RECEIVER BT OR T = BEAM DETECTOR TRANSMITTER
H H	HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, CEILING MOUNTED
R R	SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY
RT	DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATING LAMP, WALL MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED
F XXCD XXCD	**COMBINATION HORN/STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED** CD = CANDELA RATING
F H	HORN ONLY, WALL MOUNTED
F XXCD XXCD	STROBE, CEILING MOUNTED, 75 CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
FS XXCD	**COMBINATION HORN/STROBE, CEILING MOUNTED, 75CD UNLESS OTHERWISE NOTED** CD = CANDELA RATING
S SS	SPEAKER ONLY, CEILING MOUNTED
S SS	SPEAKER ONLY, WALL MOUNTED
F	STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED
P	FIREMAN'S PHONE JACK
TS	SPRINKLER TAMPER SWITCH CONNECTION
FS	SPRINKLER WATERFLOW SWITCH CONNECTION
PS PS	PRESSURE SWITCH CONNECTION
DH	ELECTROMAGNETIC DOOR HOLD OPEN DEVICE
FACP FACP	FIRE ALARM CONTROL PANEL
FATC FATC	FIRE ALARM TERMINAL CABINET
FAA FAA	FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED
EVAC EVAC	VOICE EVACUATION PANEL
MNS MNS	MASS NOTIFICATION SYSTEM PANEL
DACT DACT	MASS NOTIFICATION SYSTEM PANEL

LIGHTING

SYMBOL	DESCRIPTION
	LED STRIP FIXTURE
A	FIXTURE TYPE
2 a ZX- X	LED FIXTURE, RECESSED, PENDANT OR SURFACE CEILING LOWER CASE LETTER INDICATES CONTROLLING SWITCH CIRCUIT NUMBER LIGHTING CONTROL ZONE NUMBER
	LED FIXTURE RECESSED, PENDANT OR SURFACE CEILING
	DIAGONAL HALF SHADING INDICATE FIXTURE CONNECTED TO EMERGENCY CIRCUIT OR PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK; "E" AFTER FIXTURE TYPE TAG INDICATES INTEGRAL BATTERY PACK UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE (TYPICAL FOR ALL LIGHT FIXTURE SYMBOLS)
	LED FIXTURE, WALL MOUNTED
	LED RECESSED, PENDANT OR SURFACE CEILING
	LED WALL MOUNTED
	LED - CEILING WALLWASHER, ACCENT LIGHT, LANDSCAPING TREE ACCENT LIGHT, FACADE LIGHT
	TRACK WITH TRACK LIGHT FIXTURE (TRIANGLES INDICATE QUANTITY OF TRACK HEADS)
	EMERGENCY TWIN-HEAD LIGHT WITH INTEGRAL BATTERY PACK, WALL MOUNTED
	LINEAR LED, RECESSED, PENDANT OR SURFACE CEILING
	EXTERIOR POLE-MOUNTED AREA LIGHT FIXTURE, ARMS AS INDICATED ON DRAWINGS
	EXTERIOR PEDESTRIAN SIDEWALK BOLLARD OR POST-TOP LIGHT FIXTURE
	EXIT LIGHT, LED, CEILING OR PENDANT MOUNTED; DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF FIXTURE
	EXIT LIGHT, LED, WALL MOUNTED

VOICE AND DATA RACEWAY SYSTEM

SYMBOL	DESCRIPTION
	SINGLE-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR VOICE/DATA OUTLET WITH 1" CONDUIT STUBBED UP AND INTO NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED; PROVIDE WITH NYLON PULL STRING & SMOOTH BUSHING C = ABOVE COUNTER
W	SINGLE-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR TELEPHONE WALL OUTLET WITH 1" CONDUIT STUBBED UP AND INTO NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED; PROVIDE WITH NYLON PULL STRING & SMOOTH BUSHING W = WALL MOUNTED AT 52" AFF FOR HOUSE PHONE W, ADA = WALL MOUNTED AT 44" AFF FOR ADA ACCESSIBLE PAY PHONE ELV = WALL MOUNTED @ 52" AFF FOR TELEPHONE IN ELEVATOR MACHINE ROOM
WAP	WIRELESS ACCESS POINT OUTLET, CEILING MOUNTED; ACTUAL QUANTITY AND LOCATIONS SHALL BE BASED ON SIGNAL SURVEY BY OWNER'S WLAN VENDOR
	MULTI-SERVICE FLOOR BOX WITH RECEPTACLE AND TECHNOLOGY DEVICES (REFER TO OWNER'S VENDOR DRAWINGS FOR DEVICES); PROVIDE RACEWAY(S) AS INDICATED ON FLOOR PLANS
	MULTI-SERVICE FLOOR BOX WITH FURNITURE FEED CONNECTION; PROVIDE RACEWAY(S) AS INDICATED ON FLOOR PLANS
	2-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR WALL MOUNTED FURNITURE FEED DATA CONNECTION; PROVIDE RACEWAY(S) AS INDICATED ON FLOOR PLANS
P	MULTI-SERVICE POKE-THRU WITH RECEPTACLES AND TECHNOLOGY DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS), OR FURNITURE FEED CONNECTION; REFER TO POKE-THRU DETAILS AND FLOOR PLANS FOR RACEWAY INFORMATION
PP	POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS); REFER TO FLOOR PLANS FOR RACEWAY INFORMATION
	3/4"THICK X 8' HIGH A/C PLYWOOD BACKBOARD MOUNTED 6" AFF FROM BOTTOM, PAINTED WITH GRAY FIRE-RETARDANT PAINT, WIDTH AS INDICATED ON FLOOR PLAN
	CABLE TRAY FOR HORIZONTAL LOW VOLTAGE CABLE, 12"W X 4" HIGH UNLESS OTHERWISE NOTED; LADDER TYPE IN IDF/MDF/IT ROOMS, BASKET/MESH TYPE IN OTHER AREAS, UNLESS OTHERWISE NOTED
	2-POST DATA RACK
	4-POST DATA RACK
	WALL MOUNTED DATA RACK

ABBREVIATIONS

A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ABV CLG	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASA	AMERICAN STANDARDS ASSOCIATION
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GUAGE
BC	BARE COPPER
BIL	BASIC IMPULSE LEVEL
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
BRKR OR BKR	BREAKER
C	CONDUIT OR RACEWAY
CAB	CABINET
CKT	CIRCUIT
CB	CIRCUIT BREAKER
CBM	CERTIFIED BALLAST MANUFACTURERS
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLEC	CLOCK EQUIPMENT CABINET
CLG	CEILING
CO	CONDUIT OR RACEWAY ONLY
COAX	COAXIAL CABLE
COND	CONDUCTOR
CONN	CONNECTION
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TERMINAL (VIDEO DISPLAY TERMINAL)
CT	CURRENT TRANSFORMER
CU	COPPER
CW	COLD WATER
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DF	DEMAND FACTOR
DISC	DISCONNECT
DISC SW	DISCONNECT SWITCH
DO	DRAW OUT
DN	DOWN
DPST	DOUBLE POLE SINGLE THROW
EDH	ELECTRIC DUCT HEATER
EMT	ELECTRIC METALLIC TUBING
EO	ELECTRICALLY OPERATED
EOL	END OF LINE
EOR	ENGINEER OF RECORD
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FATC	FIRE ALARM TERMINAL CABINET
FBC	FLORIDA BUILDING CODE
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FM	FACTORY MUTUAL
FPU	FAN POWERED UNIT
FT	FEET

ABBREVIATIONS (CONT.)

GF	GROUND FAULT
GFA	GROUND FAULT ALARM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
GND, G	GROUND
HP	HORSEPOWER
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
IBC	INTERNATIONAL BUILDING CODE
IC	INTERCOM
ICU	INTENSIVE CARE UNIT
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IES	ILLUMINATING ENGINEERING SOCIETY
IMC	INTERMEDIATE METAL CONDUIT
IN	INCHES
IPCEA	INSULATED POWER CABLE ENGINEERS ASSOCIATION
IT	INSTANTANEOUS TRIP
JB OR J-BOX	JUNCTION BOX
KCMIL	ONE THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOURS
LBS	POUNDS
LED	LIGHT EMITTING DIODE
LP	LIGHTNING PROTECTION
LT	LIGHT
LTG	LIGHTING
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
LSIA	LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN SERVICE DISTRIBUTION PANEL
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SERVICE SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTS	MANUAL TRANSFER SWITCH
MUX	MULTIPLEX (TRANSPONDER) PANEL
MVA	MEGA VOLT AMPS
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NF	NON-FUSED
NL	NON-LINEAR
NO	NORMALLY OPEN OR NUMBER
OL	OVERLOAD
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P	POLE
PB	PULLBOX
PF	POWER FACTOR
PIV	POST INDICATOR VALVE
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYLCHLORIDE
PWR	POWER
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS, GRC	RIGID GALVANIZED STEEL CONDUIT
RLA	RUNNING LOAD AMPERES
RMS	ROOT-MEAN-SQUARE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SCA	SHORT CIRCUIT AMPERES
SD	SMOKE DETECTOR
SEC	SECONDARY
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
SST	SOLID STATE TRIP
STD	SHORT TIME TRIP
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TVEC	TELEVISION EQUIPMENT CABINET
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UL	UNDERWRITERS LABORATORIES
UTIL	UTILITY
V	VOLT
VA	VOLTAMPERE
VAR	VOLT AMPERE REACTIVE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	WEATHER PROOF
XFMR	TRANSFORMER
XFR	TRANSFER

ELECTRICAL DRAWING INDEX

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

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Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Description	[MANUFAC]
	2	B4	SINGLE	12757	1.000	ECF-S-32L-1A-NW-G2-4	SIGNIFY GARDCO
	6	B4-H	SINGLE	10003	1.000	ECF-S-32L-1A-NW-G2-4-HS	SIGNIFY GARDCO
	3	B5-2	Back-Back	13462	1.000	ECF-S-32L-1A-NW-G2-5	SIGNIFY GARDCO
	2	C4-2	BACK-BACK	9062	1.000	2@180_ECF-S-32L-700-NW-G2-4	SIGNIFY GARDCO

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description
BOUNDARY	Illuminance	Fc	0.22	0.5	0.0	N.A.	N.A.	readings take at grade
DRIVE	Illuminance	Fc	1.74	3.9	0.8	2.18	4.88	readings take at grade
ENTRY A	Illuminance	Fc	1.96	3.2	1.2	1.63	2.67	readings take at grade
ENTRY B	Illuminance	Fc	1.58	3.3	0.8	1.98	4.13	readings take at grade
PARKING	Illuminance	Fc	2.27	4.4	0.8	2.84	5.50	readings take at grade

TARGETING: LEE COUNTY
PARKING:
- 0.8 FC MIN
- 4:1 AVG/MIN
BOUNDARY:
- 0.5 FC MAX

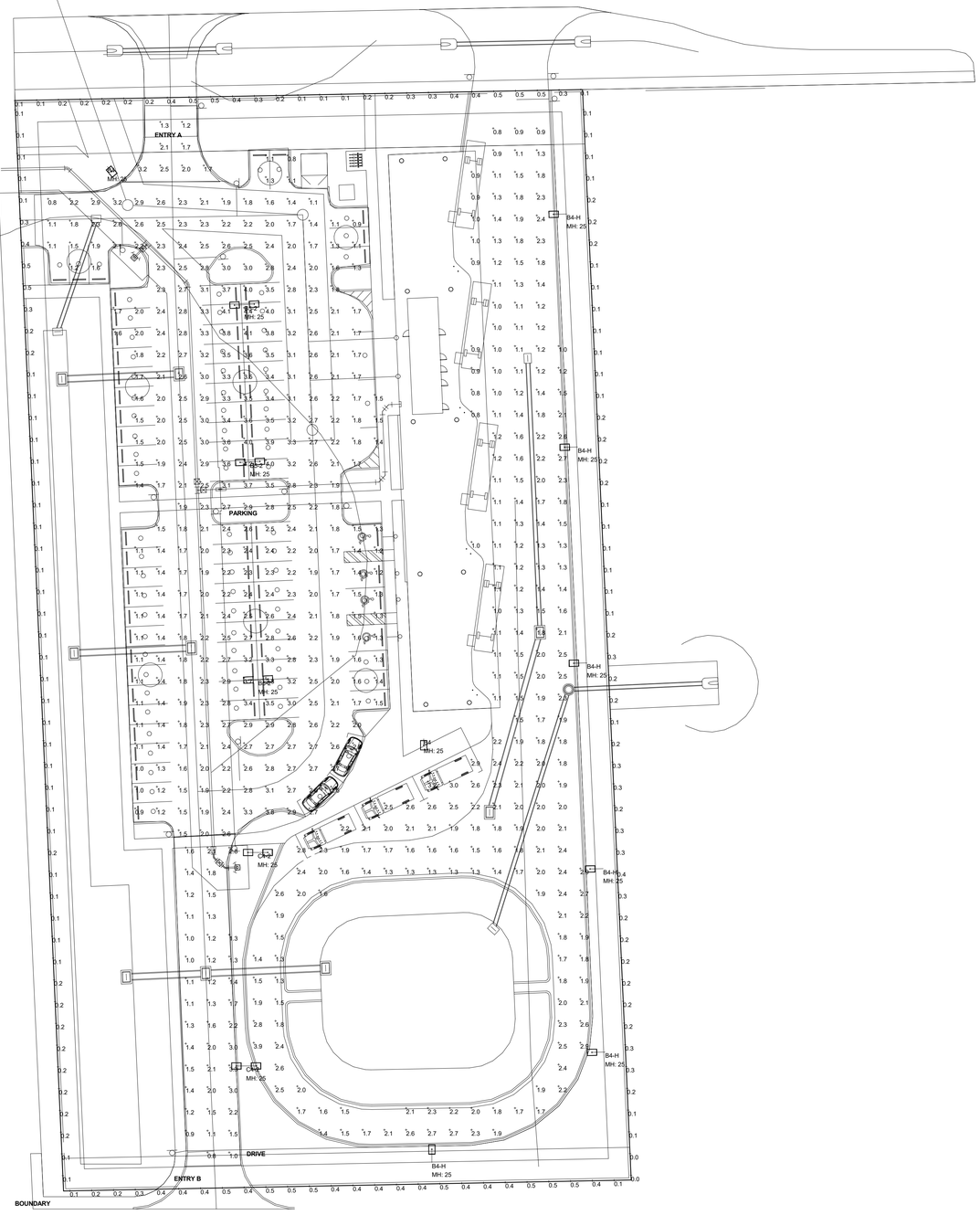
NOTES:
- LUMINAIRES PLACED AT PROPOSED LOCATIONS

GARDCO by Signify

Site & Area

EcoForm

ECF-S small area light



SITE PLAN - LIGHTING PHOTOMETRICS
1" = 30'-0"

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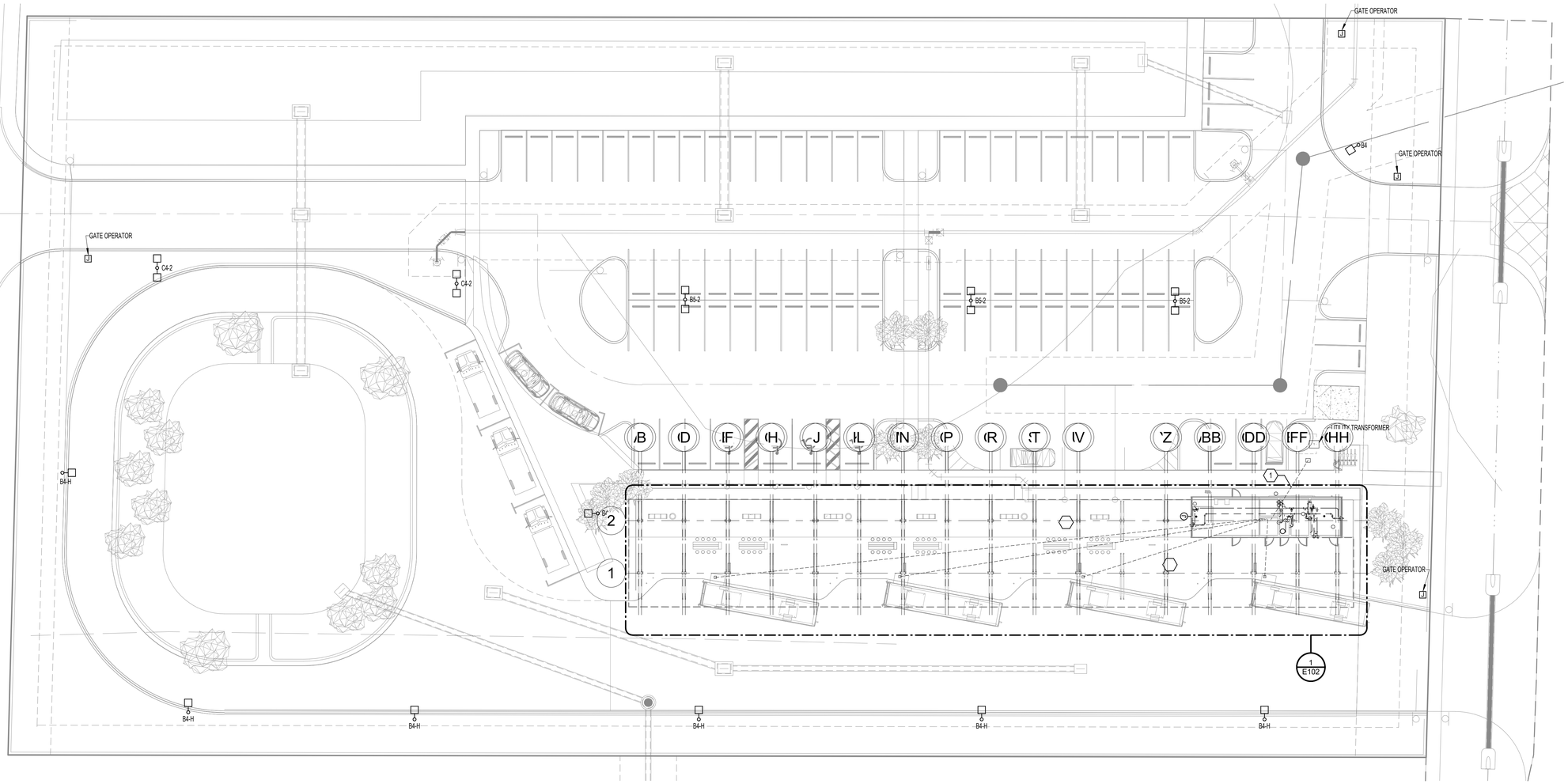

1 SITE PLAN - ELECTRICAL
1" = 20'-0"

ELECTRICAL KEY NOTES

#	KEYNOTE TEXT
	ROUTE 1 - 4" CONDUIT WITH PULL STRING FROM ELECTRICAL ROOM TO INGROUND BOX FOR FUTURE EV BUS CHARGING STATION. COORDINATE LOCATION.
1	ROUTE 3 - 4" CONDUITS WITH PULL STRING FROM INGROUND JUNCTION BOX STUBBED UP IN ELECTRICAL ROOM FOR FUTURE 480V SERVICE.
2	ROUTE 1 - 4" CONDUIT WITH PULL STRING FROM ELECTRICAL ROOM TO INGROUND BOX FOR FUTURE EV BUS CHARGING STATION. COORDINATE LOCATION.

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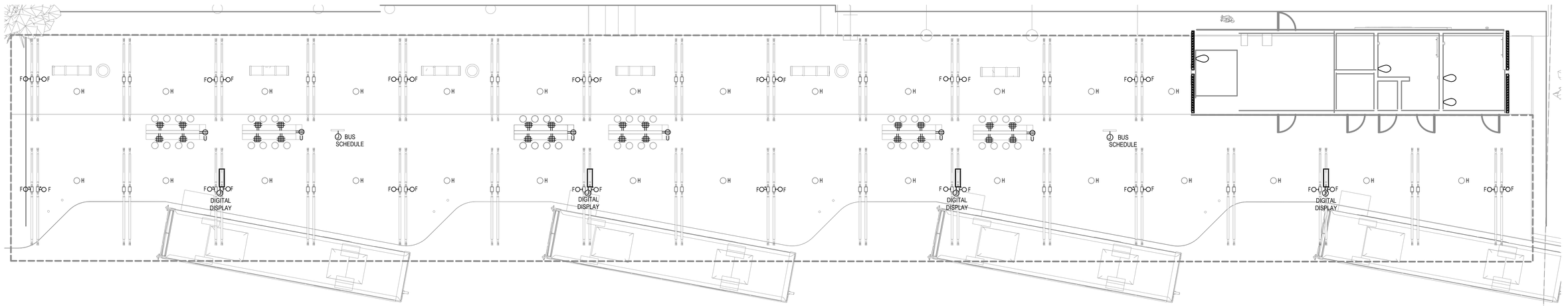

1 ENLARGED SITE PLAN - ELECTRICAL
1/8" = 1'-0"

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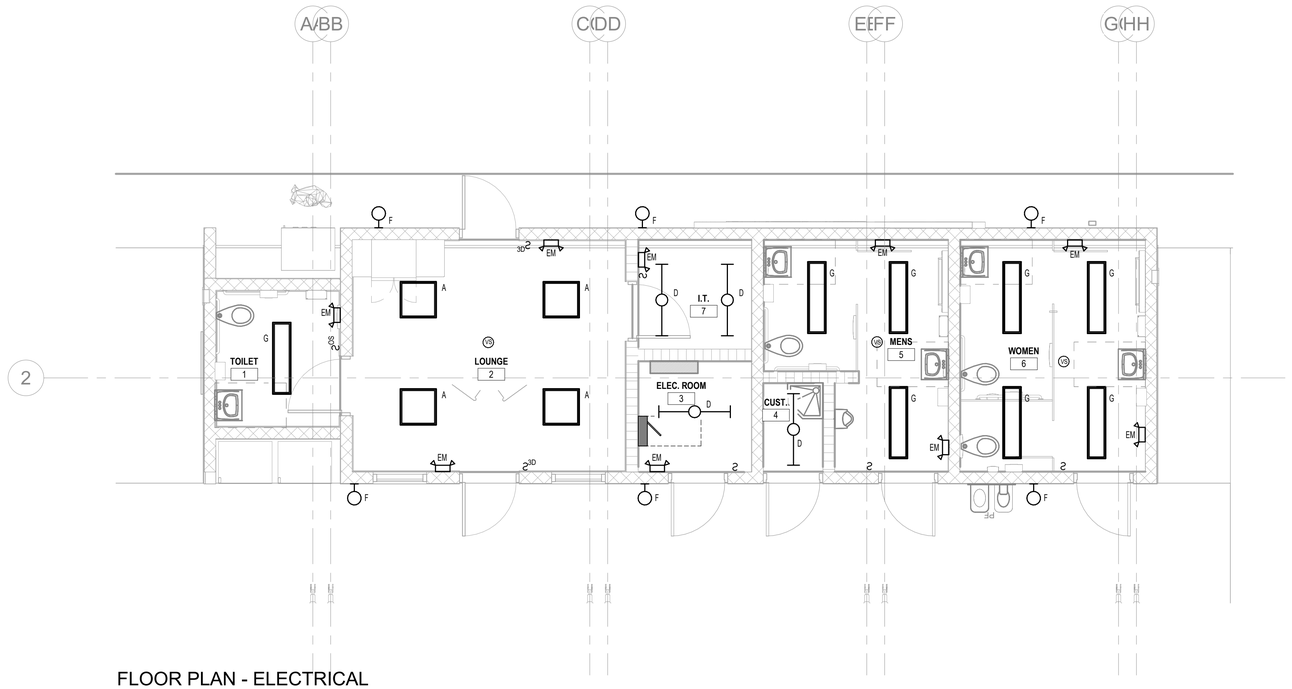
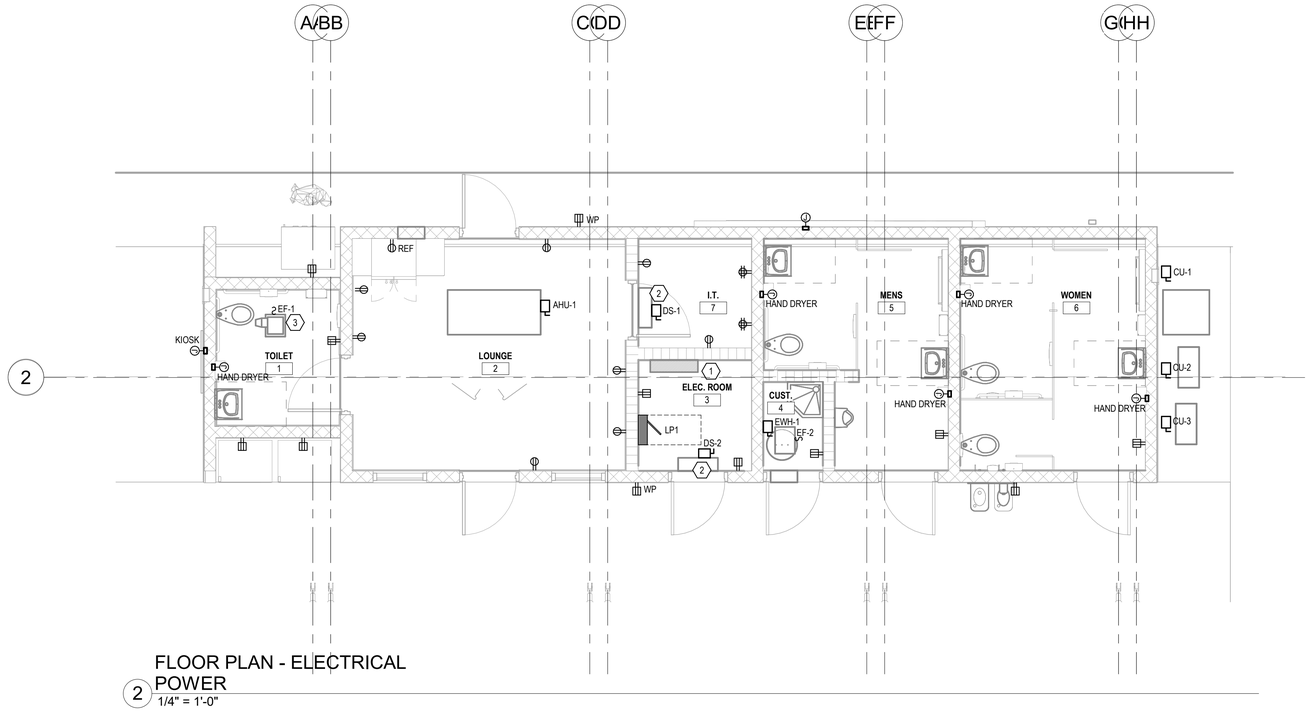


FLOOR PLAN - ELECTRICAL LIGHTING

1 1/4" = 1'-0"

ELECTRICAL KEY NOTES

#	KEYNOTE TEXT
1	FUTURE 480V DISTRIBUTION PANEL FOR BUS EV CHARGING.
2	INDOOR UNIT RECEIVES POWER FROM THE OUTDOOR UNIT. PROVIDE ALL INTERCONNECTING WIRING.
3	EXHAUST FAN TO BE CONTROLLED WITH LIGHT FIXTURES THROUGH OCCUPANCY SENSOR. CONNECT TO THE 120V LIGHTING CIRCUIT SERVING THE ROOM.



FLOOR PLAN - ELECTRICAL POWER

2 1/4" = 1'-0"

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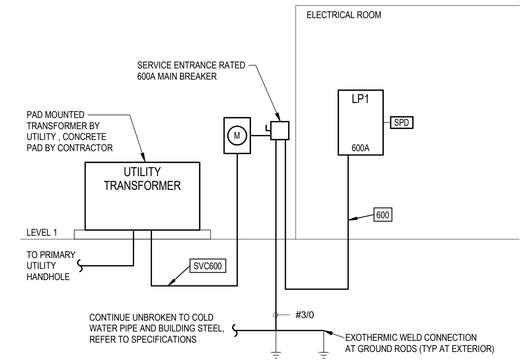
ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE

TAG	HP	FLA (AMPS)	LOAD	VOLTAGE	PHASE	CONDUIT/WIRE (AWG)	PANEL	CIRCUIT NUMBER	DISCONNECT				COMMENTS
									SWITCH SIZE	NO. OF POLES	ENCLOS. TYPE	FURN. BY (DIV.)	
AHU-1			1080 VA	208 V	3				30A	3	NEMA 1	26	AHU-1
CU-1			5400 VA	208 V	3				30A	3	NEMA 1	26	CU-1
CU-2			3924 VA	208 V	3				30A	3	NEMA 1	26	CU-2
CU-3			3924 VA	208 V	3				30A	3	NEMA 1	26	CU-3



1 ELECTRICAL RISER DIAGRAM
N.T.S.

COPPER CONDUCTOR/FEEDER SCHEDULE (90/75 RATED)

SYMBOL	NUMBER OF SETS	PHASE CONDUCTORS (QUANTITY) SIZE - AWG	NEUTRAL CONDUCTORS (QUANTITY) SIZE - AWG	GROUNDING CONDUCTORS (QUANTITY) SIZE - AWG	CONDUIT SIZE (QUANTITY) SIZE	REMARKS
600	2	(3) #350 KCMIL	(1) #350 KCMIL	(1) #1	(1) 3" FOR EACH RUN	
SVC600	2	(3) #350 KCMIL	(1) #350 KCMIL	---	(1) 3" FOR EACH RUN	

Panel: LP1

Location: ELEC. ROOM 3 **Mounting:** SURFACE **Dist. / Phase / Wires:** 120/208 Wye / 3 / 4 **K.A.I.C. Rating:** **BUS Rating:** 600 A
Supply From: UTILITY **Enclosure:** TYPE 1 **Max Height Busing:** Yes **Mains Type:** MCB **MCB Rating:** 600

KN	CKT	Circuit Description	Trip(A)	P	A (KVA)		B (KVA)		C (KVA)		P	Trip(A)	Circuit Description	CKT	KN
	1													2	
	3													4	
	5													6	
	7													8	
	9													10	
	11													12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
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	37													38	
	39													40	
	41													42	
	43													44	
	45													46	
	47													48	
	49													50	
	51													52	
	53													54	
	55													56	
	57													58	
	59													60	
		Connected Phase Load (KVA)			0.000		0.000		0.000						
		Connected Phase Amps (A)			0.000		0.000		0.000						

Load Classification	Connected Load	Demand Factor	Demand Load	Panel Totals
				Total Connected Load (KVA): 0.000
				Total Demand Load (KVA): 0.000
				Total Demand Current (A): 0

Panel Keynotes (KN):

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E200

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER / MODEL	LAMP SOURCE	FIXTURE WATTAGE W / LF	COMMENTS
A	2' X 2' LED RECESSED FIXTURE, 3800 LUMENS, 4000K, .125 FROSTED PATTERN 12 ACRYLIC LENS, DIMMABLE	DAYBRITE: 2TG3BL840-2-FS12F-UNV-DIM	EDIT ME	40.00 W	
B4	SITE LIGHTING LED POLE MOUNTED FIXTURE, 14,000 LUMEN, 4000K, TYPE 4 DISTRIBUTION	SIGNIGY GARDCO: ECF-S-32L-1A-NW-G2-4		106.00 W	
B4-H	SITE LIGHTING LED POLE MOUNTED FIXTURE, 14,000 LUMEN, 4000K, TYPE 4 DISTRIBUTION, WITH HOUSE SIDE SHIELD	SIGNIGY GARDCO: ECF-S-32L-1A-NW-G2-4-HS		106.00 W	
B5-2	SITE LIGHTING LED POLE MOUNTED BACK TO BACK FIXTURES, 14,000 LUMEN EACH, 4000K, TYPE 5 DISTRIBUTION	SIGNIFY/GARDCO: 2 @ 180-ECF-S-32L-1A-NW-G2-5		212.00 W	
C4-2	SITE LIGHTING LED POLE MOUNTED BACK TO BACK FIXTURES, 10,000 LUMEN EACH, 4000K, TYPE 4 DISTRIBUTION	SIGNIFY/GARDCO: 2 @ 180-ECF-S-32L-32L-NW-G2-4		146.00 W	
D	FLUXSTREAM LED LINEAR STRIP, 4', FROSTED ACRYLIC DIFFUSER, COLD ROLLED STEEL HOUSING, 4000 LUMENS, 4000K	SIGNIFY - FSS440L840-UNV-DIM	LED	31.00 W	
EM	<varies>	<varies>			
F	WET LOCATION EXTERIOR WALL SCONCE, 4000K, TYPE 3 DISTRIBUTION, UNIVERSAL WALL MOUNT, BRONZE FINISH, 3000 LUMEN, WITH 10W INTEGRAL EMERGENCY BATTERY	TBD	LED	36.00 W	
G	1' X 4' SURFACE MOUNT LED, VAPOR TIGHT, VANDAL RESISTANT	TBD	LED	40.00 W	
H	WET LOCATION ROUND LED SURFACE MOUNT	TBD	LED	[redacted]	

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13099 S. Cleveland Avenue,
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Fort Myers, FL 33907
P 239.275.4240

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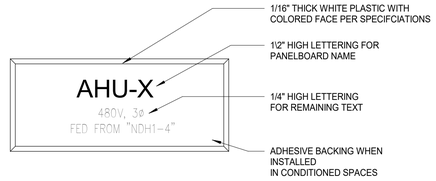
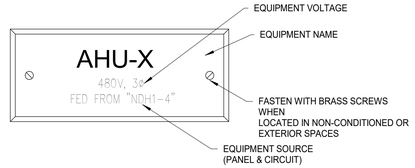
TYPICAL 120/208V PANELBOARD

TYPICAL 277/480V PANELBOARD

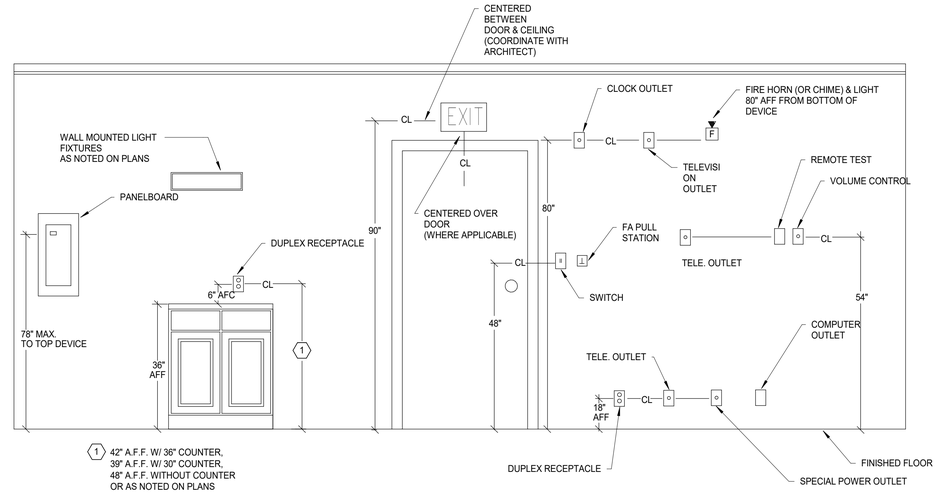
3 PANELBOARD NAMEPLATE
N.T.S.





TYPICAL EQUIPMENT

EQUIPMENT NAMEPLATE DETAIL
2 N.T.S.



1 E - Mounting Heights
N.T.S.

SPECIFICATION "ADD-IN SECTION" TO SURGE PROTECTION SECTION 264313 FOR EXTERIOR LOAD CIRCUIT PROTECTION

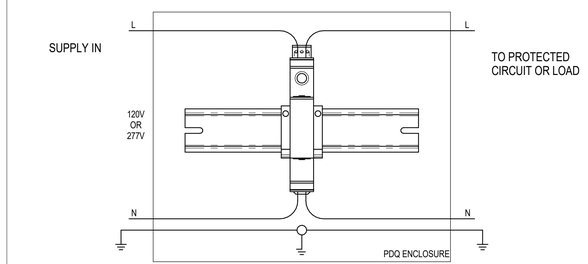
PROVIDE INDIVIDUAL EXTERIOR CIRCUIT SURGE PROTECTION DEVICES (SPD) AS INDICATED ON PANEL BOARD SCHEDULE(S) AND LOCATED AS SHOWN ON DRAWINGS OR AS ACCEPTABLE BY INSPECTOR. REFER TO DRAWING DETAIL FOR ADDITIONAL INFORMATION. SPD's SHALL BE LISTED TO THE CURRENT UL 1449 EDITION AND LISTED TYPE 2, 20kA-"IN", WITH VISUAL FAILURE INDICATION PER CIRCUIT.

SINGLE POLE, TWO POLE AND THREE PHASE - WYE CIRCUITS SHALL HAVE L-N/G PROTECTION MODE. THREE PHASE GROUNDED DELTA CIRCUITS SHALL HAVE L-G PROTECTION MODE. SPD's SHALL BE MODULAR WITH FIELD REPLACEABLE MODULES, DRY CONTACTS FOR REMOTE MONITORING AND HAVE A 5 YEAR FACTORY WARRANTY.

ENCLOSURE RATING SHALL BE NEMA 4/12 INDOOR AND OUTDOOR AND INCORPORATE A HINGED DOOR WITH A VIEWING WINDOW AND GROUNDING TERMINAL(S). FOR PQDM SERIES THERE SHALL BE ONE GROUNDING TERMINAL FOR EVERY THREE CIRCUITS. SPD TERMINALS TO ACCEPT #6 - #14 AWG CONDUCTORS.

BASIS OF DESIGN IS PQ PROTECTION PQD SERIES AND APPROVED EQUALS ONLY.

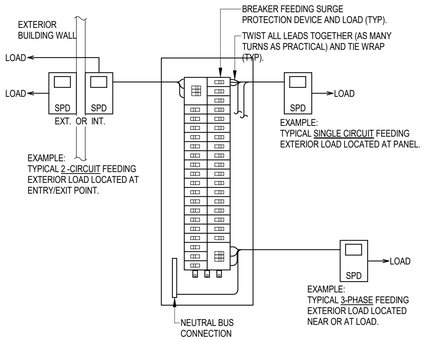
TYPICAL CIRCUIT WIRING DIAGRAM



SINGLE POLE (1P)
PART # EXAMPLE PDQX-X-1P-XXX

REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILED WIRING CONNECTION DIAGRAM

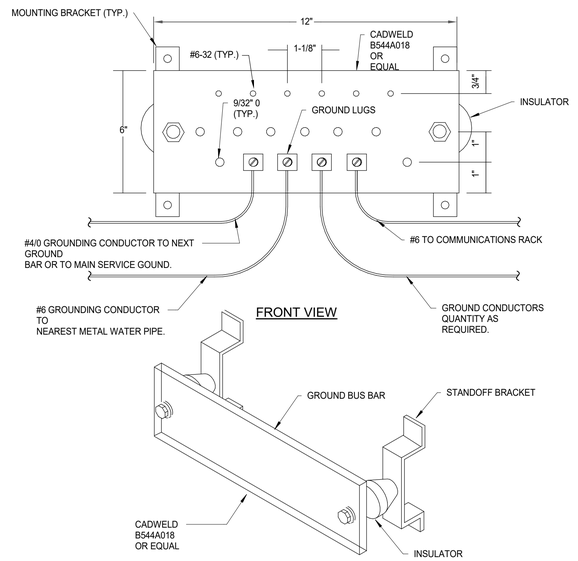
NOTE:
WIRING SHOWN IS TYPICAL FOR ONE CIRCUIT: MULTIPLE CIRCUITS MAY BE INCLUDED IN ONE ENCLOSURE. WIRE EACH CIRCUIT INDIVIDUALLY AS SHOWN IN WIRING DIAGRAM.



GENERAL NOTE:
SURGE PROTECTION DEVICE (SPD) CAN BE LOCATED ADJACENT TO PANEL, AT A LOCATION ENTERING/EXITING THE STRUCTURE OR AT THE EXTERIOR LOAD. BUT, SHOULD BE LOCATED AS DESIGNATED ON DRAWINGS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SPD INSTALLATION DETAIL FOR CONDUCTORS ENTERING OR EXITING STRUCTURE
No Scale

5 SPD INSTALLATION DETAIL
N.T.S.



4 GROUND BAR DETAIL
N.T.S.

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Fort Myers, FL 33907
P 239.275.4240
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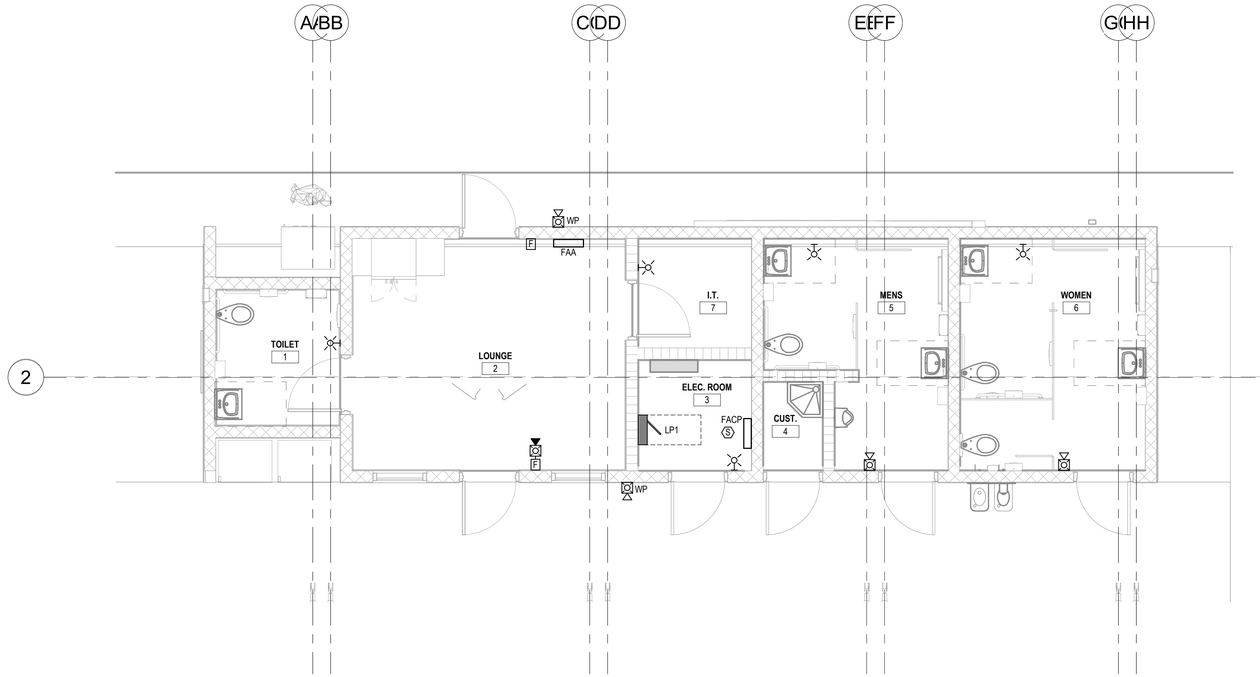
FIRE ALARM SYSTEM NOTES

1. ALL FIRE ALARM EQUIPMENT IS TO BE NEW, UL LISTED FOR FIRE SERVICE, AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED.
2. ALL WIRING AND CONDUIT IS TO CONFORM TO NEC ARTICLE 760. WIRING SHALL BE UL LISTED, MINIMUM 300V TYPE FPLP PLENUM RATED SOLID COPPER OR STRANDED COPPER WITH MAXIMUM 19 STRANDS.
3. LOW VOLTAGE CONDUCTORS: PROVIDE CONDUCTORS IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. CONDUCTORS SHALL BE COPPER, MINIMUM NO. 14 AWG, TWISTED SHIELDED PAIR.
4. SURVIVABILITY: A 2-HOUR RATED CABLE ASSEMBLY SHALL BE PROVIDED FOR NOTIFICATION APPLIANCE CIRCUITS AND ANY OTHER CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCE CIRCUITS FROM THE POINT AT WHICH THEY EXIT THE CONTROL UNIT UNTIL THE POINT THAT THEY ENTER THE NOTIFICATION ZONE THAT THEY SERVE.
5. MANUAL PULL STATIONS ARE TO BE INSTALLED AT 42" TO BOTTOM OF DEVICE AND NO HIGHER THAN 48"TO HANDLE ABOVE FINISHED FLOOR.
6. PROVIDE MINIMUM 3/4" CONDUIT AND WIRING BETWEEN EACH FIRE ALARM DEVICE AND FROM LAST DEVICE TO FACP UNLESS OTHERWISE NOTED.
7. PROVIDE DUCT DETECTOR (AND FIRE ALARM RELAY WHERE APPLICABLE) CONNECTED TO FIRE ALARM SYSTEM, WITHIN 5' OF ALL DUCT PENETRATIONS THROUGH FIRE/SMOKE WALLS, WHETHER INDICATED ON ELECTRICAL OR MECHANICAL PLANS OR NOT.
8. FIRE ALARM CONTROL PANEL IS TO BE PROVIDED WITH DEDICATED 120V CIRCUIT WITH EQUIPMENT GROUND CONNECTION PER MANUFACTURER'S RECOMMENDATIONS AND ARTICLE 760 OF THE NEC. PROVIDE MINIMUM #12 AWG FOR GROUND CONNECTION. NOTE: PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE.
9. SECONDARY BACK-UP POWER SHALL BE PROVIDED BY INTEGRAL BATTERIES WITHIN THE FIRE ALARM CONTROL PANEL TO SUPPLY POWER TO THE SYSTEM UNDER QUIESCENT LOAD FOR A MINIMUM OF 24 HOURS, AND THEN BE CAPABLE OF AN ADDITIONAL 5 MINUTES ALARM OPERATION AT MAXIMUM CONNECTED LOAD.
10. ALL FIRE ALARM POWER CIRCUITS SHALL HAVE A DEDICATED 120V 20A BREAKER THAT SHALL BE RED IN COLOR AND MECHANICALLY PROTECTED (LOCKABLE IN THE "ON" POSITION), MARKED AS "FIRE ALARM CIRCUIT".
11. A SUPERVISORY SIGNAL SHALL BE ANNUNCIATED UPON ANY TAMPER SWITCH ACTIVATION. FAILURE OR REMOVAL OF ANY DETECTION OR MANUAL DEVICE SHALL ACTIVATE A TROUBLE SIGNAL.
12. A CERTIFICATION OF COMPLETION AND UL LISTING SHALL BE ISSUED AND INSTALLED ON THE FIRE ALARM CONTROL PANEL. SUBMIT NFPA RECORD OF COMPLETION FORM ALONG WITH SMOKE DETECTOR SENSITIVITY REPORT FOR ALL DETECTORS WITHIN THE PROJECT AREA TO ENGINEER AND MAKE AVAILABLE AT FINAL INSPECTION.
13. MINIMUM CANDELA RATING OF STROBES IS 75; "110" ADJACENT TO DEVICE INDICATES 110 CANDELA RATING. PROVIDE SYNCHRONIZATION OF STROBES IN ALL ADJACENT AREAS WHERE STROBES ARE VISIBLE TO EACH OTHER.
14. ALL STROBES SHALL ACTIVATE UPON INITIATION OF THE GENERAL ALARM.
15. ALL STROBES SHALL BE INSTALLED PER ADA MOUNTING HEIGHT REQUIREMENTS. WALL MOUNTED STROBES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE STROBE LENS IS 80" AFF.
16. STROBES SHALL BE INSTALLED WITHIN 15' OF THE ENDS OF ALL CORRIDORS.
17. FIRE ALARM DEVICES INSTALLED OUTSIDE OR IN AREAS OPEN TO THE EXTERIOR SHALL BE WEATHERPROOF DEVICES IN APPROVED BACKBOXES.
18. SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, UNLESS SPECIFICALLY NOTED OTHERWISE.
19. SMOKE DETECTORS ARE TO BE INSTALLED PER NFPA 72. WALL MOUNTED SMOKE DETECTORS SHALL BE MOUNTED 4"-12" BELOW THE CEILING AND AWAY FROM CORNERS.
20. DUCT DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, AND RATED FOR VELOCITIES UP TO 5000 FT/MIN.
21. HEAT DETECTORS SHALL BE ADDRESSABLE, FIXED TYPE @ 135 DEG F, UNLESS OTHERWISE NOTED.
22. PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM PER NFPA AND ALL STATE AND LOCAL CODE REQUIREMENTS. COMPLY WITH NFPA 72 AND ADA REQUIREMENTS.
23. FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF AN HVAC DIFFUSER (SUPPLY OR RETURN), IN DIRECT AIR FLOW PATH, OR WITHIN 24" OF A SPRINKLER HEAD UNLESS NOTED OTHERWISE.
24. PROVIDE LABELS FOR REMOTE ALARM INDICATORS FOR DUCT MOUNTED SMOKE DETECTORS (I.E., AHU-1 SUPPLY, AHU-2 RETURN, FIRE/SMOKE DAMPER, ETC.). DUCT DETECTORS SHOULD BE LOCATED WITHIN 6 TO 10 EQUIVALENT DIAMETERS OF STRAIGHT, UNINTERRUPTED DUCTWORK. DUCT DETECTORS FOR FIRE/SMOKE DAMPERS SHOULD BE LOCATED BETWEEN THE LAST INLET OR OUTLET UPSTREAM OF THE DAMPER AND THE FIRE INLET OR OUTLET DOWNSTREAM OF THE DAMPER, AND WITHIN FIVE FEET OF THE FIRE/SMOKE WALL.
25. EQUIPMENT SHUT DOWN FIRE ALARM RELAYS SHALL BE LOCATED WITHIN THREE (3) FEET OF THE EQUIPMENT CONTROLS AND THE WIRING TO THE RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
26. ALL FIRE ALARM CABLE SHALL BE INSTALLED IN CONDUIT; NO FIRE ALARM CONDUIT SHALL BE INSTALLED UNDER SLAB. PROVIDE MANUFACTURED RED CONDUIT UNLESS OTHERWISE NOTED.
27. MINIMIZE EXPOSURE OF DETECTORS TO DIRT AND DUST FROM CONSTRUCTION. PROVIDE PLASTIC COVERS DURING CONSTRUCTION.
28. STATE CERTIFIED AND LICENSED FIRE ALARM CONTRACTOR SHALL PREPARE AND SUBMIT SIGNED AND SEALED DRAWINGS FOR THE LOCAL AUTHORITY HAVING JURISDICTION/ FIRE MARSHALL.
29. ALL NOTIFICATIONS DEVICES SHALL BE RED.
30. FIRE ALARM CIRCUITS SHALL BE CLASS "B".
31. NOTIFICATION DEVICES SHALL BE ADDRESSABLE ELECTRIC-VIBRATING-POLARIZED HORNS, SELECTABLE FOR HIGH OR LOW dBA OUTPUT. THEY SHALL HAVE A SOUND PRESSURE LEVEL OF 90dBA MEASURED 10 FEET FROM HORN, USING CODED SIGNAL PER NFPA 72.
32. FIRE ALARM CONTRACTOR/VENDOR SHALL PREPARE FLORIDA LICENSE P.E. WORKING DRAWINGS INCORPORATING THE FIRE ALARM CRITERIA DESIGN AND CONFIRMING TO AHJ REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL MATERIAL REQUIRED PER AHJ AND DESIGN CRITERIA FOR A FULLY FUNCTIONING AND PERMITTABLE FIRE ALARM SYSTEM. SUBMIT TO DESIGN PROFESSIONAL AS A SHOP DRAWING FOR REVIEW. SUBMIT COMPLETE SIGNED & SEALED DRAWINGS TO PERMITTING AGENCY AND FOR CERTIFICATE OF OCCUPANCY. COMPLETED FIRE ALARM CERTIFICATION SHALL BE PROVIDED TO OWNER AT COMPLETION OF CONSTRUCTION.
33. FIRE ALARM DESIGN IS IN ACCORDANCE WITH FLORIDA STATUTES CHAPTER 61G15-32. WHERE A FIRE ALARM RISER IS INDICATED, IT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO REPRESENT A COMPLETE WIRING AND DEVICE DISPLAY. ALL WIRING AND DEVICES SHALL BE IN ACCORDANCE WITH SELECTED VENDOR'S POINT-BY-POINT WIRING DIAGRAM. REFER TO FLOOR PLAN FOR DESIGN INTENT AND PROPOSED QUANTITY OF FIRE ALARM SYSTEM COMPONENTS.



1 FLOOR PLAN - FIRE ALARM
1/4" = 1'-0"

FIRE ALARM SYSTEM WIRE SCHEDULE

- (A) SIGNALLING LINE CIRCUIT: (2) CONDUCTOR #18 AWG, SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE. CLASS B - SURVIVABILITY LEVEL 1. (INTRA-BUILDING)
- (B) NOTIFICATION APPLIANCE CIRCUIT: 2 CONDUCTOR #14 AWG, SOLID, SHIELDED CABLE. TYPE "FPLR" CABLE. CLASS B - SURVIVABILITY LEVEL 1.
- (C) INITIATING DEVICE CIRCUIT (IDC): 2 CONDUCTOR #18 AWG, SOLID, SHIELDED TWISTED PAIRS. TYPE "FPLR" CABLE. CLASS B, SURVIVABILITY LEVEL 1

NOTE:

* FIRE ALARM SYSTEM WIRING SHALL BE POWER LIMITED.
* ALL WIRING BELOW GRADE TO BE LISTED FOR WET LOCATIONS.
* REFER TO POWER AND SYSTEMS PLANS FOR DEVICE LOCATION AND QUANITY.
* ALL STROBES SHALL BE 75cd MINIMUM UNLESS OTHERWISE NOTED ON THE FLOOR PLANS.

FIRE ALARM SYSTEM SEQUENCE OF OPERATION

No Scale

TYPE OF SYSTEM:

- FULLY ADDRESSABLE FIRE ALARM SYSTEM AND STANDBY BATTERY MONITORED BY CENTRAL STATION
- 24 HOURS OF STANDBY, 5 MINUTES OF ALARM USED FOR BATTERY CALCULATIONS
- VOICE EVACUATION WITH PRE-RECORDED DIGITAL MESSAGE AND MANUAL ANNOUNCEMENT VIA MICROPHONE

TYPE OF CIRCUITS:

- SIGNALING LINE CIRCUIT (SLC) = CLASS B, SURVIVABILITY LEVEL 1
- NOTIFICATION APPLIANCE CIRCUIT (NAC) = CLASS B, SURVIVABILITY LEVEL 1

WIRING METHOD:

- "FPLR" CABLE IN CONDUIT.
- WET LOCATION LISTED CABLE FOR UNDERGROUND, SLAB, AND UNCONDITIONED SPACE CONDUIT.

GENERAL ALARM SEQUENCE:

- ACTIVATION OF AN ALARM INITIATING DEVICE WILL CAUSE THE NOTIFICATION DEVICES (SPEAKERS AND STROBES) TO ACTIVATE THROUGHOUT THE BUILDINGS. ALL ALARM CONDITIONS WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL (FACP) AND REMOTE ANNUNCIATOR AND WILL BE TRANSMITTED TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.
- SUPERVISORY CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A SUPERVISORY CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.
- TROUBLE CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A TROUBLE CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.
- SPRINKLER FLOW SWITCH : THE FIRE PROTECTION SPRINKLER SYSTEM MAIN FLOW SWITCH SHALL BE CONNECTED AS AN ALARM INITIATING DEVICE AND SHALL BE ANNUNCIATED SEPARATELY. FIRE PROTECTION SPRINKLER SYSTEM ZONE FLOW SWITCHES SHALL BE CONNECTED AS AN AUTOMATIC INITIATING DEVICE AND EACH SWITCH SHALL BE SEPARATELY ANNUNCIATED.
- SPRINKLER FLOW SWITCH SHALL TRANSMIT A SEPARATE ALARM SIGNAL FROM OTHER ALARM CONDITIONS.
- SPRINKLER SYSTEM TAMPER SWITCH : TAMPER SWITCHES CONNECTED TO THE VALVES OF THE FIRE PROTECTION SYSTEM SHALL BE ANNUNCIATED AS SUPERVISORY CONDITION.

ALARM SILENCE:

- AUDIBLE NOTIFICATION DEVICES MAY BE SILENCED.
- VISUAL DEVICES WILL REMAIN ON UNTIL THE SYSTEM IS RESET.

INITIATING DEVICE OPERATIONS:

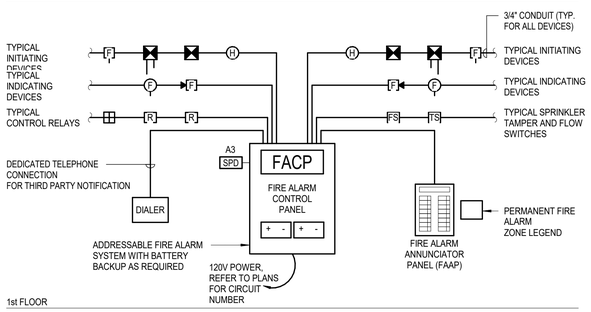
- PULL STATIONS WILL CAUSE A GENERAL ALARM.
- SPRINKLER FLOW SWITCHES WILL CAUSE A GENERAL ALARM.
- DUCT DETECTORS WILL CAUSE A SUPERVISORY CONDITION.
- ANY TAMPER SWITCH WILL CAUSE A SUPERVISORY CONDITION.
- SMOKE/HEAT DETECTORS WILL CAUSE A GENERAL ALARM AFTER AN ALARM VERIFICATION PROCESS.

AUXILIARY CONTROLS:

- AIR HANDLING UNITS CONTROLLED BY THE FIRE ALARM SYSTEM WILL SHUTDOWN THROUGHOUT THE BUILDING ON AN ALARM CONDITION. UPON SILENCING FIRE ALARM SYSTEM HVAC SYSTEM SHALL AUTOMATICALLY RETURN TO NORMAL OPERATION STATUS.

FIRE ALARM NOTES :

1. ALL EQUIPMENT AND DEVICES SHALL BE U.L. LISTED.
2. ALL WIRING SHALL CONFORM TO NFPA 72 AND NEC ARTICLE 760 USING FPLR COPPER CABLING IN CONDUIT.
3. COLOR CODING AND PROPER LABELING SHALL APPLY TO ALL SYSTEMS WIRING.
4. ROUTE FIRE ALARM SYSTEM CONDUIT ACCORDING TO FIRE ALARM CONTRACTOR SHOP DRAWINGS. COORDINATE WITH THE ELECTRICAL CONTRACTOR.
5. ALL FIRE ALARM VISUAL SIGNALS IN OPEN AREA SHALL HAVE A THREE PLUS TEMPORAL PATTERN. MULTIPLE STROBES SIMULTANEOUSLY IN VIEW SHALL BE SYNCHRONIZED.
6. ALL FIRE ALARM AUDIBLE SIGNALS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL, WHICHEVER IS GREATER.
7. MOUNT FIRE ALARM SYSTEM STROBES AND HORN/STROBES AT 80" AFF OR 6" BELOW CEILING, WHICH EVER IS LOWER.
8. SMOKE DETECTOR INSTALLATIONS SHALL BE AS PER NFPA 72.
9. ADDRESSABLE MONITOR MODULES SHALL BE PROVIDED WITHIN 3' OF ANY NON-ADDRESSABLE INITIATING DEVICES.
10. FIRE ALARM CONTROL PANEL SHALL INCLUDE BATTERIES.
11. PROVIDE CERTIFICATE OF COMPLETION AT THE FINAL INSPECTION OF THE FIRE ALARM SYSTEM.
12. FIRE ALARM CONTRACTOR SHALL PROVIDE A DETAILED SET OF SHOP DRAWINGS (INCLUDING DEVICE CUT-SHEETS), A COMPLETE POINT TO POINT WIRING DIAGRAM, COMPLETE BATTERY CALCULATIONS, & VOLTAGE DROP CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION AT THE TIME OF APPLICATION FOR BUILDING PERMIT.
13. PROVIDE THE OWNER WITH A COMPLETE FIRE ALARM SYSTEM OPERATING AND INSTALLATION MANUAL COVERING ALL SYSTEM EQUIPMENT INSTALLED FOR THIS PROJECT. KEEP AT THE FIRE ALARM CONTROL PANEL.
14. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN OFFSITE CENTRAL STATION.



2 FIRE ALARM RISER
N.T.S.

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2136 McGREGOR BLVD. FORT MYERS, FLORIDA 33901
(239) 332-1171

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13099 S. Cleveland Avenue, Suite 500
Fort Myers, FL 33907
P 239.275.4240
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PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
CD	- CONDENSATE DRAIN PIPING
CW	- DOMESTIC COLD WATER PIPING
HW	- DOMESTIC HOT WATER PIPING
HWR	- DOMESTIC HOT WATER RETURN PIPING
S	- SANITARY WASTE PIPING
V	- VENT PIPING
ST	- STORM DRAIN PIPING
STO	- OVERFLOW STORM DRAIN PIPING
G	- FUEL GAS PIPING
	- HOSE BIBB OR WALL HYDRANT
CO	- CLEANOUT PLUG
CO	- WALL CLEANOUT
CO	- FLOOR CLEANOUT / EXTERIOR CLEANOUT
FD	- FLOOR DRAIN
FS	- FLOOR SINK
DD	- DECK DRAIN
	- SHUT-OFF VALVE
	- BALL VALVE
	- CALIBRATED BALANCING VALVE
	- CHECK VALVE (SWING)
	- PRESSURE REDUCING VALVE
S	- SOLENOID OPERATING VALVE
	- GAS COCK
	- GAS PRESSURE REGULATOR
DETAIL No. 4 / P4.101 — SHEET No. SHOWN ON	- DETAIL REFERENCE
4" S — PIPE SIZE — PLUMBING SYSTEM	- PIPE TAG
1	- REVISION REFERENCE

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

PLUMBING ABBREVIATIONS

ABBREVIATION		DESCRIPTION
CA	-	COMPRESSED AIR
AFF	-	ABOVE FINISH FLOOR
AW	-	ACID WASTE
AV	-	ACID VENT
CB	-	CATCH BASIN
CD	-	CONDENSATE DRAIN
CFH	-	CUBIC FEET PER HOUR
CO	-	CLEANOUT
CONT	-	CONTINUATION
CW	-	DOMESTIC COLD WATER
DI	-	DEIONIZED WATER
DN	-	DOWN
DS	-	DOWNSPOUT
DWG	-	DRAWING
EXIST	-	EXISTING
°F	-	DEGREE FAHRENHEIT
FCO	-	FLOOR CLEANOUT
FD	-	FLOOR DRAIN
FOF	-	FUEL OIL FILL
FOG	-	FUEL OIL GAGE
FOR	-	FUEL OIL RETURN
FOS	-	FUEL OIL SUPPLY
FOV	-	FUEL OIL VENT
FS	-	FLOOR SINK
FSE#	-	FOODSERVICE EQUIPMENT NUMBER
G	-	GAS
GPH	-	GALLONS PER HOUR
GPM	-	GALLONS PER MINUTE
GR	-	KITCHEN WASTE (GREASE)
HB	-	HOSE BIBB
HD	-	HUB DRAIN
HW	-	DOMESTIC HOT WATER
HWR	-	DOMESTIC HOT WATER RECIRCULATING
IE	-	INVERT ELEVATION
IW	-	INDIRECT WASTE
KW	-	KILOWATT
LBS	-	POUNDS
MH	-	MANHOLE
NC	-	NORMALLY CLOSED
NIC	-	NOT IN CONTRACT
NO	-	NORMALLY OPEN
NP	-	NON-POTABLE WATER
NTS	-	NOT TO SCALE
OD	-	OUTSIDE DIAMETER
PRV	-	PRESSURE REDUCING VALVE
PSI	-	POUNDS PER SQUARE INCH
PVC	-	POLYVINYL CHLORIDE PIPE
RD	-	ROOF DRAIN
RPBP	-	REDUCED PRESSURE BACKFLOW PREVENTOR
SAN	-	SANITARY
SD	-	STORM DRAIN
SF	-	SQUARE FEET
SH	-	SHEET
ST	-	STORM
STO	-	OVERFLOW STORM DRAIN
SW	-	SOFT COLD WATER
V	-	VENT
VAC	-	VACUUM
VC	-	VACUUM CLEANING
VTR	-	VENT THRU ROOF
WCO	-	WALL CLEANOUT
WTR	-	WATER

PLUMBING GENERAL NOTES

1. REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
2. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
3. UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORSEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION, WILL BE NECESSARY.
4. FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO REMAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
5. NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
6. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
7. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
8. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
9. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
10. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH UL LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
11. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
12. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
13. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
14. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
15. PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
16. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
17. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
18. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE.
19. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
20. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
21. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
22. ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
23. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
24. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. IF MATERIALS ARE NOT NON-COMBUSTIBLE IN RETURN AIR PLENUMS, THEY SHALL BE REPLACED OR WRAPPED WITH A UL LISTED FIRE RATED FIRE WRAP (I.E. FYREWRAP 0.5 PLENUM INSULATION OR APPROVED EQUAL) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURES UL LISTED DETAILS AND RECOMMENDATIONS AT NO ADDITIONAL COST. (NOTE: REFER TO MECHAICAL DRAWINGS FOR RETURN AIR PLENUM LOCATIONS.)
25. PIPING, INSULATION, FITTINGS, MATERIALS, COVERS AND FINISHES IN RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

(EWH-1) ELECTRIC WATER HEATER, STORAGE TANK TYPE

BASIS OF DESIGN:

WATER HEATER: "A.O. SMITH", MODEL # DEN-30, 4.5 KW UPPER AND LOWER NON-SIMULTANEOUS OPERATION, 208 VOLT, 3 PHASE, 25 GPH RECOVERY AT 70 DEGREE F TEMPERATURE RISE. PROVIDE STRUCTURAL SHELF WITH INTERGRAL DRAIN PAN MOUNTED AT 6'-6" ABOVE FINISHED FLOOR. STRUCTURAL SHELF BASIS OF DESIGN: "HOLDRITE", MODEL # 40-SWHP-W.

(EXP-1) WATER HEATER THERMAL EXPANSION TANK

BASIS OF DESIGN:

EXPANSION TANK, "AMTROL", MODEL #ST-5C

(TMV-1) TEMPERING VALVE

BASIS OF DESIGN:

TEMPERING VALVE, "SYMMONS", MODEL # 8210CK, MIN. FLOW 0.25 GPM, 2.74 GPM AT 20.0 PSI FLOW RATE. PROVIDE WALL MOUNTING BRACKET.

(WC-1) WATER CLOSET, FLOOR MOUNTED, MANUAL FLUSH VALVE, 1.6 GPF

BASIS OF DESIGN:

WATER CLOSET: "AMERICAN STANDARD", MODEL #3043001.020
FLUSH VALVE: "SLOAN", MODEL # REGAL 111-1.6, (Code #3080053)
SEAT: "AMERICAN STANDARD", MODEL # 5901.100SS

(LV-1) LAVATORY, WALL MOUNTED, MANUAL METERED FAUCET, 0.5 GPF

BASIS OF DESIGN:

LAVATORY: "AMERICAN STANDARD", MODEL #3055.012
FAUCET: "T&S BRASS", MODEL #
DRAIN: "MCGUIRE MANUFACTURING", MODEL #
PTRAP: :"MCGUIRE MANUFACTURING, MODEL #
CARRIER: "ZURN", MODEL #
INSULATIOLNG KIT FOR WASTE AND SUPPLIES: " TRUEBRO", MODEL # LAV-GUARD 2.

(UR-1) URINAL, WALL MOUNTED, MANUAL FLUSH VALVE

BASIS OF DESIGN:

URINAL "AMERICAN STANDARD", MODEL #3055.012
FLUSH VALVE: "SLOAN", MODEL #

(MS-1) MOP SINK, SERVICE FAUCET

BASIS OF DESIGN:

URINAL "AMERICAN STANDARD", MODEL #3055.012
FLUSH VALVE: "SLOAN", MODEL #

PLUMBING DRAWING INDEX

FIRE PROTECTION GENERAL NOTES:

1. THIS PROJECT IS UNDER 49 SPRINKLER HEADS TO PROVIDE A COMPLETE SPRINKLER SYSTEM WITH COVERAGE OF THE ENTIRE BUILDING. PER THE 2020 FLORIDA BUILDING CODE, BUILDING, 7TH EDITION, SECTION # 105.3.1.2.(2): ENGINEERING DESIGN DRAWINGS FROM THE ENGINEER ARE NOT REQUIRED FOR THE FIRE PROTECTION SCOPE OF WORK, 2020 FLORIDA BUILDING CODE, BUILDING, 7TH EDITION, SECTION # 105.3.1.2.(2), STATES THAT PERSONNEL AS AUTHORIZED BY CHAPTER 633 FLORIDA STATUES, MAY DESIGN A FIRE SPRINKLER SYSTEM OF 49 OR FEWER HEADS AND MAY DESIGN THE ALTERNATION OF AN EXISTING FIRE SPRINKLER SYSTEM IF THE ALTERATION OF AN EXISTING FIRE SPRINKLER SYSTEM IF THE ALTERATION CONSISTES OF THE RELOCATIONS, ADDITION OR DELETION OF NOT MORE THAN 49 HEADS, NOTWITHSTANDING THE SIZE OF THE EXISTING FIRE SPRINKLER SYSTEM.

2. PER NFPA 13, THE SPRINKLER HEAD SPACING SHALL NOT EXCEED 225 SQFT. THE FIRE HAZARD FOR THE SPACE IS LIGHT HAZARD WITH A DENSITY OF 0.10 GPM/SQFT OVER 1500 SQFT.

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(239) 332-1171

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LEHIGH ACRES PARK AND RIDE

1121 VILLAGE LAKES BLVD., LEHIGH ACRES, FLORIDA

07/01/2022

P001

TLC ENGINEERING SOLUTIONS
13099 S. Cleveland Avenue,
Suite 500
Fort Myers, FL 33907
P 239.275.4240

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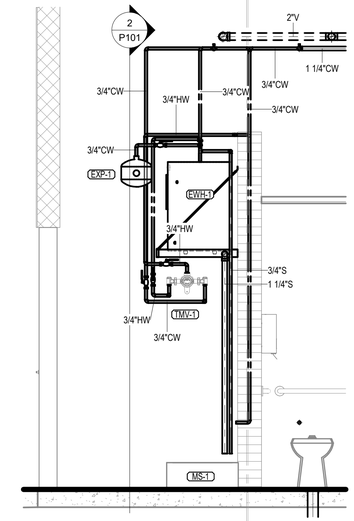
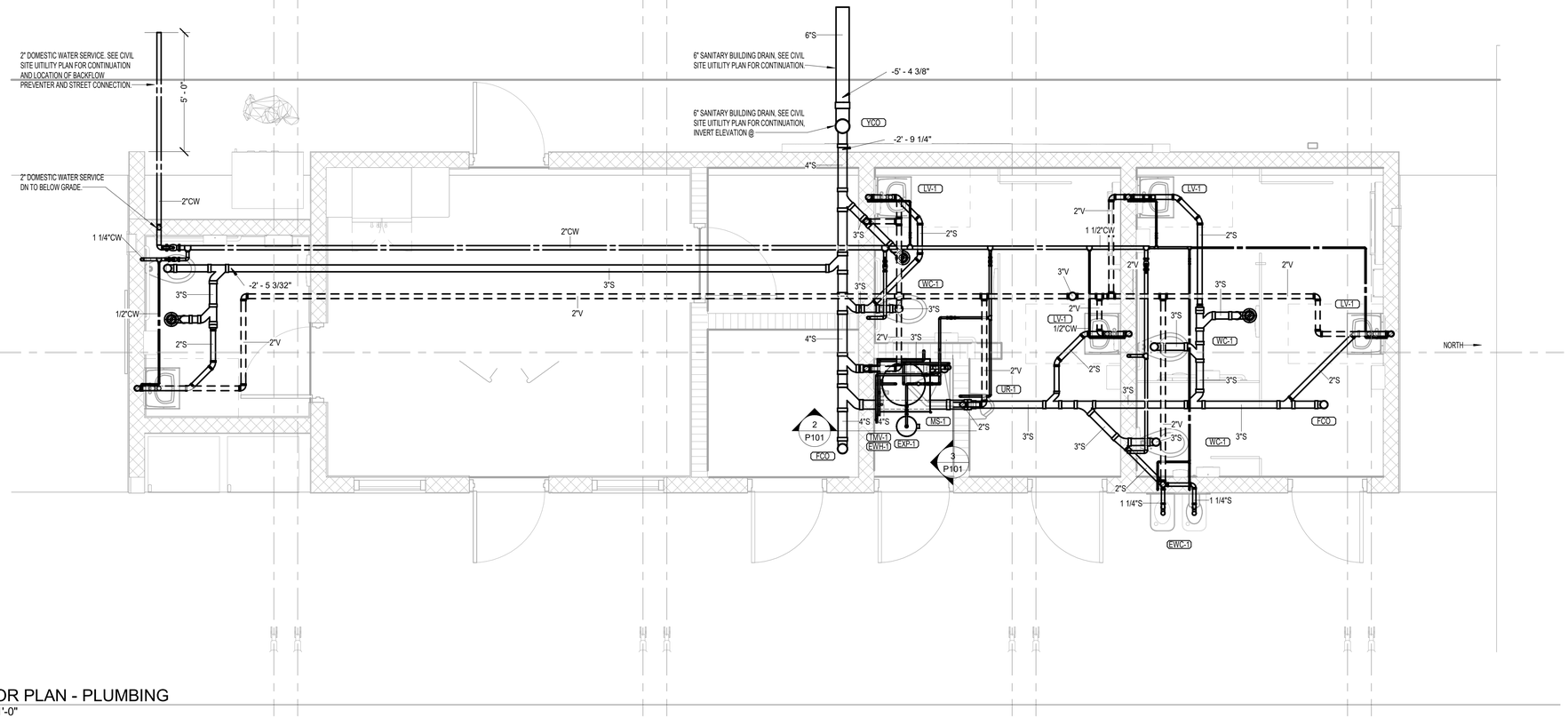
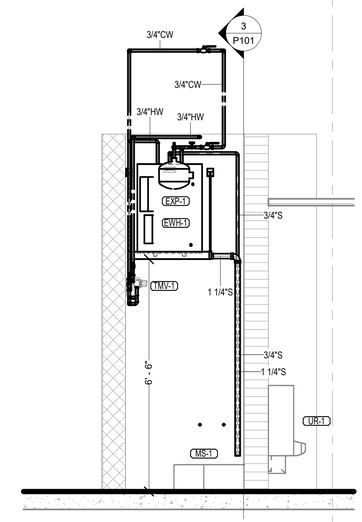


3 P101 WATER HEATER ELEVATION #2
1/2" = 1'-0"



1 P101 FLOOR PLAN - PLUMBING
3/8" = 1'-0"



2 P101 WATER HEATER ELEVATION #1
1/2" = 1'-0"

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2136 McGREGOR BLVD. FORT MYERS, FLORIDA 33901
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TLC ENGINEERING SOLUTIONS
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13099 S. Cleveland Avenue,
Suite 500
Fort Myers, FL 33907
P 239.275.4240
COA 15
www.tlc-engineers.com
TLC No.:721030
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P101

TECHNOLOGY SYSTEMS GENERAL NOTES

1. REFER TO SPECIFICATION SECTION "TECHNOLOGY GENERAL PROVISIONS" FOR MORE INFORMATION ABOUT DRAWINGS AND BID DOCUMENTS.
2. MANY SYMBOLS USED IN THIS PROJECT HAVE A TYPE ASSOCIATED WITH THEM. SEE SHEETS WITH DETAILS AND PROJECT SPECIFICATIONS FOR MORE INFORMATION ON THE DESCRIPTION OF EACH TYPE.
3. ALL CONDUIT FOR TECHNOLOGY SYSTEMS INDOOR ABOVE GRADE SHALL BE EMT AND ALL CONDUIT FOR BELOW GRADE SHALL BE PVC.
4. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED PARTITIONS IN THIS PROJECT. PROVIDE AN APPROVED FIRE STOP SYSTEMS FOR EACH RACEWAY OR CABLE GOING THROUGH A RATED WALL. SEE SPECIFICATION "RACEWAYS FOR TECHNOLOGY" FOR MORE INFORMATION.
5. WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110. COORDINATE EQUIPMENT INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
6. SYMBOLS USED ON THE TECHNOLOGY DRAWINGS ARE NOT THE SAME SIZE AS THE ACTUAL OBJECT BEING REPRESENTED. THEREFORE LOCATIONS OF THE SYMBOLS ON THE FLOOR PLANS ARE AN APPROXIMATION TO THE ACTUAL LOCATION OF THE DEVICE AND NEED TO BE CAREFULLY COORDINATED WITH OTHER ELEMENTS IN THE VICINITY. AS A GENERAL GUIDELINE:
   A. VOICE/DATA OUTLET FOR WORK-AREAS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET INDICATED IN ELECTRICAL DRAWINGS.
   B. TV OUTLETS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET SHOWN ON THE ELECTRICAL DRAWINGS.
   C. WHEN MULTIPLE TECHNOLOGY SYSTEMS OUTLETS ARE INDICATED NEXT TO EACH OTHER WITH SYMBOLS, THE SPACING BETWEEN OUTLETS SHALL BE CONSISTENT IF NO ELEVATION IS SHOWN ON THE DRAWINGS.
   D. WHEN INSTALLER IS NOT CERTAIN ABOUT SPECIFIC ADJACENCIES OF A DEVICE, THE QUESTION SHALL BE ASKED TO THE ENGINEER PRIOR TO INSTALLATION.
7. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE PRIOR TO ANY ROUGH-IN. NOTIFY ENGINEER OF ANY DISCREPANCY.
8. LOCATIONS OF FLOOR BOXES AND FLOOR PENETRATIONS SHALL NOT BE MEASURED FROM THIS SET OF DRAWINGS, INSTALLER SHALL REQUEST PRECISE LOCATIONS FROM ARCHITECT.
9. EACH VOICE/DATA RJ45 JACK SHALL BE CONNECTED TO A DEDICATED 4 PR CABLE.
10. THE RESPONSIBILITY OF RACEWAY INSTALLATION SHALL BE AS DIRECTED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR, BUT ALL RACEWAYS FOR TECHNOLOGY ARE TO BE INCLUDED IN THIS CONTRACT.
11. WHEN CONDUIT RUNS ARE INDICATED ABOVE GRADE OR BELOW GRADE ON THESE DRAWINGS, NOT EVERY SINGLE JUNCTION BOX (OR COMMUNICATIONS VAULT) REQUIRED IS INDICATED ON THE DRAWINGS. TYPICALLY ONLY END POINT LOCATIONS OR SPECIFIC PASS-THROUGH LOCATIONS WHERE THE ENGINEER DESIRES A BOX ARE SHOWN ON THE DRAWINGS. SEE SPECIFICATION "RACEWAYS FOR TECHNOLOGY" FOR REQUIREMENTS THAT INDICATE ADDITIONAL JUNCTION BOXES OR COMMUNICATION VAULTS THAT SHALL BE PROVIDED UNDER THIS CONTRACT. SUCH REQUIREMENTS INCLUDE ADDITIONAL BOXES REQUIRED BECAUSE OF NUMBER OF CONDUIT BENDS OR CHANGES IN ELEVATION.
12. SOME SYMBOLS INCLUDED IN THE SYMBOL LEGEND MAY NOT BE USED IN THESE PROJECT DRAWINGS.
13. UNDER NO CONDITIONS, CONDUITS FOR LOW VOLTAGE FOR FLOOR BOXES SHALL BE DAISY CHAINED TOGETHER BETWEEN ADJACENT FLOOR BOXES. ALL CONDUITS FOR FLOOR BOXES SHALL BE HOME RUNS TO NEAREST ACCESSIBLE CEILING SPACE.
14. THIS SET OF DRAWINGS DOES NOT INDICATE ALL GROUNDING AND BONDING REQUIREMENTS FOR TECHNOLOGY SYSTEMS. REFER TO SPECIFICATION SECTION "GROUNDING FOR TELECOMMUNICATION SYSTEM" FOR ADDITIONAL REQUIREMENTS.
15. ALL CABLES FOR TECHNOLOGY SYSTEMS RUN UNDER SLAB OR BELOW GRADE IN CONDUITS STUBBING UP INSIDE THE TELECOM ROOM SHALL BE INDOOR/OUTDOOR RATED. FOR CONDUITS STUBBING UP IN OTHER LOCATIONS DIFFERENT FROM TELECOM ROOMS AND FURTHER THAN 50 FT. FROM A TELECOM ROOM, DO NOT USE INDOOR/OUTDOOR RATED CABLES.
16. GRAPHICS USED FOR EQUIPMENT IN ELEVATIONS AND CHANNELS (LINE DRAWINGS) DO NOT NECESSARILY REPRESENT THE PART NUMBER OF THE EQUIPMENT SPECIFIED. THE PART NUMBERS LISTED IN THE DRAWINGS AND SPECIFICATIONS ARE TO BE FOLLOWED FOR BASIS OF DESIGN, NOT THE GRAPHICS.
17. THE TECHNOLOGY DRAWINGS DO NOT SHOW ALL REQUIRED CONDUITS/RACEWAYS TO BE PROVIDED UNDER THIS CONTRACT. TYPICALLY CONDUIT SLEEVES SMALLER THAN 2" ARE NOT SHOWN ON THE DRAWINGS. SEE SPECIFICATIONS "RACEWAYS FOR TECHNOLOGY" AND DRAWING DETAILS FOR ADDITIONAL RACEWAY REQUIREMENTS.
18. DEFINITION OF ACRONYMS USED IN THESE DRAWINGS:
   A. NIC (N.I.C.) - NOT IN CONTRACT
   B. OFE (O.F.E.) = OWNER FURNISHED EQUIPMENT. SEE RESPONSIBILITY MATRIX FOR MORE INFORMATION.
   C. DHI (D.H.I.) = DOOR HARDWARE INSTALLER
   D. USC (U.S.C.) = UNDER SEPARATE CONTRACT.
19. ALL REQUIRED WALL PENETRATIONS, EXISTING AND NEW, SHALL MAINTAIN THE NEW WALL RATING AFTER CABLING HAS BEEN INSTALLED OR REMOVED.
20. ALL SPEAKERS MOUNTED IN A CEILING TILE SHALL BE CENTERED IN THE CEILING TILE.

SECURITY SYSTEM GENERAL NOTES

1. SYMBOLS USED TO REPRESENT DEVICES SUCH AS CCTV CAMERAS, INTERCOM STATIONS, SECURITY WORKSTATIONS, CALL STATIONS, AND EMERGENCY PHONE STATIONS REQUIRE ONE (1) DATA DROP FOR SUCH DEVICE. THIS DATA DROP IS NOT SHOWN ON THE VOICE/DATA FLOOR PLANS, BUT SHALL BE PROVIDED FOLLOWING ALL REQUIREMENTS FOR VOICE/DATA DROPS INDICATED IN THE DRAWING DETAILS AND IN THE SPECIFICATION "STRUCTURED CABLING SYSTEM".
2. ANY DATA DROPS FOR SECURITY DEVICES EXCEEDING 295 FT. OF PERMANENT LINK DISTANCE TO THE TELECOM ROOM WHERE CAMERA WILL BE WIRED TO, SHALL BE WIRED WITH FIBER OPTICS FOR HORIZONTAL CABLING AND A 2 CONDUCTOR AWG-16 CL2(P) CABLE. THE FIBER CABLE SHALL BE AS DESCRIBED IN SPECIFICATION "STRUCTURED CABLING SYSTEM". IF NO INDICATION IN SUCH SPECIFICATION, FIBER OPTIC CABLE SHALL BE A 2-STRAND OM1 CABLE WITH A SUITABLE JACKET FOR THE APPLICATION.
3. ALL DOUBLE DOORS THAT ARE SHOWN WITH TWO DOOR POSITIONS SWITCHES ARE TO RECEIVE (1) DOOR POSITION SWITCH ON EACH DOOR LEAF AND SHALL REPORT AS ONE ALARM POINT.
4. ALL CAMERAS, CARD READERS AND/OR KEYPADS DEDICATED FOR ELEVATOR FLOOR SELECTION CONTROL ARE SHOWN INSIDE THE ELEVATOR CAB ON THE LOWEST LEVEL FLOOR PLAN TO WHICH THE ELEVATOR TRAVELS.
5. LOCATION OF SURVEILLANCE CAMERAS SHALL BE CLOSELY COORDINATED WITH OTHER TRADES TO AVOID OBSTRUCTIONS IN THE FIELD OF VIEW. IT IS NOT REQUIRED FOR CAMERAS TO BE MOUNTED IN CENTER OF A CEILING TILE (OR CENTER OF A HALLWAY) IF THAT LOCATION CAUSES AN OBSTRUCTION IN THE FIELD OF VIEW OF THE CAMERA. ALL CAMERAS ARE TO BE INSTALLED AS TO MINIMIZE THE OBSTRUCTIONS IN THE FIELD OF VIEW WITHIN A 4' RADIUS OF THE SPECIFIED LOCATION.
6. SURVEILLANCE CAMERAS INDICATED IN THE CORNER OF A ROOM SHALL BE INSTALLED AS CLOSE AS PHYSICALLY POSSIBLE TO THE CORNER OF THE ROOM TO GAIN THE BEST FIELD OF VIEW FOR THAT CAMERA.
7. EACH ACCESS CONTROLLED DOOR IN THE PROJECT HAS A DOOR IDENTIFIER SYMBOL THAT ASSOCIATES THE DOOR TO A CORRESPONDING ROUGH-IN DETAIL IN THE DRAWINGS AND A SPECIFIC FUNCTIONALITY OF THE DOOR IN THE SECURITY SPECIFICATIONS.

TECHNOLOGY DRAWING INDEX

SHEET	DESCRIPTION
T001	TECHNOLOGY SYMBOLS, LEGEND, NOTES AND INDEX
T002	TECHNOLOGY RESPONSIBILITY MATRIX
T003	IT EQUIPMENT SCHEDULE
T101	SITE PLAN - TECHNOLOGY
T102	ENLARGED SITE PLAN - TECHNOLOGY
T201	FLOOR PLAN - TECHNOLOGY
T701	TECHNOLOGY DETAILS
xT501	TECHNOLOGY RISER DIAGRAMS

BASIC MATERIALS

- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CAPPED CONDUIT
- CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
- CONDUIT CONTINUED
- X/Y — CONDUIT SLEEVES
  X= QTY OF SLEEVES
  Y= SIZE OF CONDUITS SLEEVES PENETRATING WALL ABOVE CEILING SPACE.
  IF NO QUANTITY INDICATED USE AS MANY SLEEVES AS REQUIRED TO MATCH CROSS SECTIONAL AREA OF CABLE TRAY NEXT TO SLEEVE.
- TUBULAR RUNWAY, HUNG ABOVE CEILING OR AS NOTED
- CABLE TRAY (TYPE), HUNG ABOVE CEILING OR AS NOTED
- SURFACE MOUNTED ENCLOSED TECHNOLOGY SYSTEMS. SEE SHEETS WITH DETAILS FOR ADDITIONAL INFORMATION
- J — JUNCTION BOX WALL MOUNTED. SIZE PER NEC IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER
- (J) — JUNCTION BOX CEILING MOUNTED. SIZE PER NEC IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER
- V X — TELECOMMUNICATIONS GROUND VAULT. SEE DETAILS AND SPECS FOR MORE INFORMATION
  X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- PB X — TELECOMMUNICATIONS PULLBOX. SEE DETAILS AND SPECS FOR MORE INFORMATION
  X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- TP — TECHNOLOGY POLE. SEE SHEETS WITH DETAILS FOR ADDITIONAL INFORMATION

GENERAL

- NEW EQUIPMENT
- EXISTING WORK AND/OR EQUIPMENT REFERENCE, SHOWN ON MULTIPLE DRAWINGS
- DEVICE TO BE REMOVED (DEMO PLANS) UNDERFLOOR CONDUIT (NEW PLANS)
- WIRE AND/OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWINGS
- DETAIL AND/OR SECTION REFERENCE
- CABLE ROUTING BOUNDARY
- FUTURE WORK

DRAWING NOTES AND DESIGNATIONS

- X — DRAWING KEYED NOTES
- X — CABLE ROUTING NOTES
- X/X — DETAIL OR SECTION REFERENCE TAG

VOICE AND DATA SYSTEM

- W,WP XNYZ U +H — TELECOMMUNICATION OUTLET
  X= MOUNTING: (E= EXISTING, F= FLUSH, S= SURFACE, M= MODULAR FURNITURE ADAPTER, P= POLE, L= FLOOR, R= RACEWAY)
  N= NUMBER OF DATA CABLES IN THE FACEPLATE
  Y= NOT USED
  Z= NUMBER OF FIBER OPTIC STRANDS IN THE FACEPLATE
  U= USER(IF APPLICABLE)
  +H= INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, COORDINATE WITH ELECTRICAL. IF NOT SHOWN INSTALL AT TYPICAL RECEPTACLE HEIGHT.
  W= WALL TELEPHONE FACEPLATE WITH SUPPORT STUDS, INSTALLED AT 48" AFF AT CENTER OF OUTLET AND 12" FROM EDGE OF WALL.
  WP=WEATHERPROOF
  EXAMPLE: F2 = TWO DATA JACKS IN A SINGLE FACEPLATE, FLUSH MOUNTED
- MECH SY U +H — OUTLET FOR MECHANICAL/ ELECTRICAL/ FIRE ALARM/ ELEVATOR/ STAR CONNECTION
  Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  +H= IF NOT SHOWN, COORDINATE EXACT LOCATION WITH DEVICE
- XY U — CEILING MOUNTED INFORMATION OUTLET, MOUNTED ON FINISHED CEILING
  XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- WAP XY U +H — OUTLET FOR WIRELESS ACCESS POINT, WALL MOUNTED
  Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- WAP XY U — OUTLET FOR WIRELESS ACCESS POINT, MOUNTED ON FINISHED CEILING
  XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- FYZ LN — FLOOR BOX FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU/ FLOORBOX SCHEDULE FOR MORE INFORMATION
  F= FLOOR CONDITION: (C= CONCRETE TYPE, G= GRADE, R= RAISED FLOOR, W= WOOD)
  Y= DENOTES # OF GANGS (1,2,3...)
  Z= DENOTES PLATE TYPE (A,B,C....), A= NO AUDIO/VISUAL
  LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- YZ LN — POKE-THRU FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU & FLOOR BOX SCHEDULE FOR MORE INFORMATION
  Y= DENOTES POKE-THRU SIZE (4=4", 6=6" 8=8".....)
  Z= DENOTES PLATE TYPE (A,B,C....), A= NO AUDIO/VISUAL
  LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- FF — WALL MOUNTED FURNITURE FEED USED TO FEED CABLES TO MODULAR FURNITURE OR CABLES
- (FF) X — FLOOR BOX USED TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- (FP) X — POKE-THRU USED TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- AG XY U +H — AV BACKBOX, INSTALLED BEHIND DISPLAY/ CREDENZA RACK, COORDINATE BACKBOX PRIOR TO ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION
  G= DENOTES # OF GANGS
  XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE
- RG XY U +H — RECESS IN-WALL STORAGE BOX, INSTALLED BEHIND DISPLAY, COORDINATE BACKBOX PRIOR TO ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION
  G= DENOTES # OF GANGS
  XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE

BROADBAND TELEVISION SYSTEM

- RX ANTENNA
- TX ANTENNA
- TX/RX ANTENNA
- 2 WAY SPLITTER
- 3 WAY SPLITTER
- 4 WAY SPLITTER
- 8 WAY SPLITTER
- SD — SATELLITE DISH
- CATV AMPLIFIER
  I= INPUT LEG
  O= OUTPUT LEG
  T= TEST PORT
  X= AMPLIFIER TYPE - SP: SERVICE PROVIDER, H: HEADEND AMPLIFIER, D: DISTRBUTION AMPLIFIER
- DISTRIBUTION TAP
  I= INPUT LEG
  O= OUTPUT LEG
  T= TAP LEGS, QTY AS INDICATED IN RISER
- DIRECTIONAL COUPLER
  I= INPUT LEG
  O= OUTPUT LEG
  T= TAP LEGS, QTY AS INDICATED IN RISER
- XW-Y — CATV TAP DEFINITION TAG
  X= NUMBER OF TAP LEGS
  Y= TAP VALUE IN dB
- EQ — CATV EQUALIZER
  X= EQUALIZING VALUE IN dB
  I= INPUT LEG
  O= OUTPUT LEG
- TERMINATOR
- SURGE SUPRESSOR AT BUILDING ENTRY POINT
- TV X U +H — TELEVISION OUTLET, COORDINATE ROUGH-IN WITH TV MOUNT INSTALLER, CEILING MOUNTED
  X= DENOTES TYPE OF OUTLET, SEE DETAIL FOR MORE INFORMATION
  U=USER(IF APPLICABLE). THIS ONLY APPLIES TO DATA AND FIBER NOT COAX
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- TV X U +H — TELEVISION OUTLET, COORDINATE ROUGH-IN WITH TV MOUNT INSTALLER, WALL MOUNTED
  X= DENOTES TYPE OF OUTLET, SEE DETAIL FOR MORE INFORMATION
  U=USER(IF APPLICABLE). THIS ONLY APPLIES TO DATA AND FIBER NOT COAX
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF

AUDIO VISUAL EQUIPMENT

- SX Y-Z W — CEILING MOUNTED SPEAKER
  X= SPEAKER TYPE
  Y= SPEAKER ZONE
  Z= DENOTES SPEAKER # IN ZONE
  W= DENOTES SPEAKER WATTAGE TAP
  NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTEM IN ROOM
- SX Y-Z W +H — WALL MOUNTED SPEAKER
  X= SPEAKER TYPE
  Y= SPEAKER ZONE
  Z= DENOTES SPEAKER # IN ZONE
  W= DENOTES SPEAKER WATTAGE TAP
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE
  NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTEM IN ROOM
- VC +H — VOLUME CONTROL, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- FT — FLIP TOP DEVICE MOUNTED ON TABLE
- SM +H — SENS MICROPHONE FOR AMBIENT NOISE, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- (SM) — SENS MICROPHONE FOR AMBIENT NOISE, CEILING MOUNTED
- MX — MICROPHONE, DESK MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- MX +H — MICROPHONE, WALL MOUNTED
  X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET
- (MX) X — MICROPHONE, CEILING MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- WA +H — WIRELESS ANTENNA FOR WIRELESS MICRPHONE, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- TS X — TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, DESK MOUNTED
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
- TS X +H — TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, WALL MOUNTED, INCLUDES BACK BOX
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- AV X +H — CAMERA FOR AV SYSTEM, WALL MOUNTED
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET
- AV X — CAMERA FOR AV SYSTEM, CEILING MOUNTED
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
- ALT +H — ASSISTED LISTENING TRANSMITTER, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET
- RS X +H — ROOM SCHEDULING PANEL, WALL MOUNTED, INCLUDES BACK BOX
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (XO) — OCCUPANCY SENSOR, CEILING MOUNTED
  X= TYPE, C= CRESNET, E= ETHERNET
- TT XX +YY — AUDIO VISUAL DISPLAY
  TT= DISPLAY TYPE WITH MOUNT
  XX= SCREEN SIZE
  YY= HEIGHT TO CENTER OF SCREEN
- TT XX +YY — INTERACTIVE WHITEBOARD
  TT= DISPLAY TYPE WITH MOUNT
  XX= SCREEN SIZE
  YY= HEIGHT TO CENTER OF SCREEN
- X Y — OVERHEAD PROJECTOR WITH MOUNT
  X= TYPE
  Y= LENS THROW RATIO
- X — PULLDOWN PROJECTION SCREEN
  X= DIAGONAL DIMENSION IN INCHES
- X — MOTORIZED PROJECTION SCREEN
  X= DIAGONAL DIMENSION IN INCHES
- S LV — WALL SWITCH FOR MOTORIZED SCREEN
- PX — PODIUM FOR AV EQUIPMENT, REFER TO DETAIL SHEETS
  X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- AV X +H — AV PLATE OUTLET, REFER TO DETAIL SHEETS
  X= DENOTES TYPE OF OUTLET, SEE DETAIL FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 1'-6" AFF
- SB +H — SOUND BAR WITH CAMERA, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF

ELECTRONIC SECURITY SYSTEM

- CR — CARD READER, WALL MOUNTED
- CK — CARD READER WITH INTEGRATED KEYPAD, WALL MOUNTED
- BR — BIOMETRIC ACCESS CONTROL DEVICE, WALL MOUNTED
- KP — KEYPAD, WALL MOUNTED
- IP — WIRED IP LOCK, DOOR MOUNTED
- WM — WIRELESS MORTISE LOCK, DOOR MOUNTED
- WC — WIRELESS CYLINDRICAL LOCK, DOOR MOUNTED
- IK — INTRUSION ALARM KEYPAD
- EM — ELECTRIC MORTISE LOCK OR ELECTRIC TRIM
- DE — DELAYED EGRESS LATCH LOCK
- DM — DELAYED EGRESS MAG LOCK
- EC — ELECTRIC CYLINDRICAL LOCK
- EL — ELECTRIC LATCH RETRACTION LOCK
- ML — ELECTROMAGNETIC LOCK
- DL — ELECTRONIC DETENTION LOCK
- ES — ELECTRIC DOOR STRIKE
- DO — ELECTRIC DOOR OPERATOR (ACTUATOR ARM)
- DPS — DOOR POSITION SWITCH
- BMS — BALANCED MAGNETIC SWITCH
- WG +H — PIM MODULE FOR WIRELESS LOCKS, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- BL +H — ALARM, BLUE LIGHT, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- LA +H — LOCAL ALARM - HORN/STROBE, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- SA +H — SIREN ALARM FOR INTRUSION DETECTION, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- AS X +H — ASSISTANCE STATION, WALL MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (AS) X — ASSISTANCE STATION (BLUE LIGHT), TOWER STATION
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE
- IS X +H — INTERCOM SUBSTATION (DOOR STATION), WALL MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- IM X — INTERCOM MASTER STATION, DESK MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE
- IM X +H — INTERCOM MASTER STATION, WAll MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- CS +H — CALL STATION (THROUGH PHONE LINE) FOR BUILDING ENTRY, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- XXX — DOOR TYPE IDENTIFIER
  X= TYPE (A1,C3,B6..) REFER TO SECURITY DOOR DETAILS
- A — DOOR RELEASE BUTTON, WALL MOUNTED
  X= A: ADA ACCESSIBLE - (PALM ACTUATOR), W: HAND WAVE, NO TYPE: REGULAR PUSH BUTTON
- DOOR RELEASE BUTTON, DESK MOUNTED
- REX — REQUEST TO EXIT DEVICE (IR SENSOR), MOUNT CENTERED ABOVE DOOR FRAME
- GB +H — GLASS BREAK SENSOR, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- (GB) — GLASS BREAK SENSOR, CEILING MOUNTED
- GP — GATE PEDESTAL
- GO — ELECTRIC GATE OPERATOR
- D +H — DURESS PANIC BUTTON, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (D) — DURESS PANIC BUTTON, MOUNTED UNDER DESK
- MD — MOTION DETECTOR, WALL MOUNTED, MOUNT 6" BELOW CEILING OR 8'-0" AFF MAX
- (MD) — MOTION DETECTOR, 360 DEGREE SENSOR, CEILING MOUNTED
- IA +H — INFANT ABDUCTION SYSTEM, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- (IA) — INFANT ABDUCTION SYSTEM, CEILING MOUNTED ABOVE DOOR
- LINE BETWEEN SECURITY DEVICES, INDICATES ASSOCIATED EQUIPMENT
- CONTROLLED DOOR INTERLOCK GROUP. PROGRAMMED SO ONLY ONE DOOR CAN BE OPEN AT A TIME.
- A1 / A2 — ACCESS CONTROL DOOR DIRECTION, A1/A2 - REPRESENTS ACCESS CONTROL PATH
  FREE - NO ACCESS CONTROL
  CR - CARD READER
  BIOMETRIC - BIOMETRIC READER
  CR/KP - CARD READER AND KEYPAD
  MONITORED - DOOR MONITORED

VIDEO SURVEILLANCE SYSTEMS

- X,C — PAN/TILT/ZOOM CCTV CAMERA, WALL MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — PAN/TILT/ZOOM CCTV CAMERA, CEILING MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — FIXED CCTV CAMERA, WALL MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — FIXED CCTV CAMERA, CEILING MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — 180° CCTV CAMERA, WALL MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — 180° CCTV CAMERA, CEILING MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — 180° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — 180° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — 360° CCTV CAMERA, WALL MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — 360° CCTV CAMERA, CEILING MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — 360° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- X,C — 360° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED
  X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER
- CCTV XX +YY — FLAT PANEL DISPLAY WITH MOUNT
  XX= SCREEN SIZE
  YY= HEIGHT TO CENTER OF SCREEN
- PC X — SECURITY SYSTEM WORKSTATION, DESK MOUNTED
  X= TYPE

PARKER / MUDGETT / SMITH ARCHITECTS, INC.
(239) 332-1171
2136 McGREGOR BLVD. FORT MYERS, FLORIDA 33901

REVISIONS

No.	Description	Date

60%
LEHIGH ACRES PARK AND RIDE
1121 VILLAGE LAKES BLVD., LEHIGH ACRES, FLORIDA

TLC ENGINEERING SOLUTIONS
13099 S. Cleveland Avenue,
Suite 500
Fort Myers, FL 33907
P 239.275.4240
COA 15
www.tlc-engineers.com
TLC No.:721030
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07/01/2022

T001

LeeTran Park & Ride Expansion

DESIGN AND CONSTRUCTION RESPONSIBILITIES

ITEM	SYSTEM	SCOPE	DESIGN RESPONSIBILITY	PROCUREMENT RESPONSIBILITY	CONSTRUCTION RESPONSIBILITY
1.00	**VOICE SYSTEM (TELEPHONE COMMUNICATIONS SYSTEM ALL AREAS)**				
1.01	RACEWAYS	Conduit, boxes, cable tray, etc.	A&E	CM	CM
1.02	INSIDE PREMISE WIRING	Structured cabling system	A&E	CM	CM
1.03	OUTSIDE PREMISE WIRING IN PRIVATE CAMPUS	Structured cabling system	A&E	CM	CM
1.04	OUTSIDE PREMISE WIRING FROM SERVICE PROVIDERS	Fiber and copper for services	A&E/Owner	S.P.	S.P.
1.05	PHONE SWITCH - ADMIN PHONES	Equipment selection, sizing, equipment layout, RFP	OWNER	C.M.	OWNER
2.00	**DATA SYSTEM (COMPUTER NETWORKS ALL AREAS)**				
2.01	RACEWAYS	Conduit, boxes, cable tray, etc.	A&E	CM	CM
2.02	INSIDE PREMISE WIRING	Structured cabling system	A&E	CM	CM
2.03	PATCHING OF DATA LINES	Patching at patch panel and work areas (Does not include patch cords)	A&E	N.A.	OWNER
2.04	ACTIVE ELECTRONICS (NETWORKING EQUIPMENT, SWITCHES, ROUTERS, SERVERS AND COMPUTERS)	Equipment selection, sizing, equipment layout, RFP	OWNER	CM	OWNER
2.05	WIRELESS SURVEY	Modeling to predict location of WAPs, including measured survey after building shell is completed	A&E	N.A.	OWNER
2.06	WAPs	Wireless access points, including installation labor, support materials	OWNER	CM	CM
3.00	**TELECOM ROOM OUTFIT**				
3.01	PLYWOOD AND WALL SLEEVES	Plywood and sleeves for cables	A&E	CM	CM
3.02	GROUNDING SYSTEM	Ground bar and ground bus	A&E	CM	CM
3.02	RACKS, WIRE MANAGERS AND LADDER TRAY	Racks and all passive elements	A&E	CM	CM
4.00	**CATV DISTRIBUTION (CABLE TV FOR ALL AREAS)**				
4.01	RACEWAYS	Conduit, boxes, cable tray, etc.	A&E	CM	CM
4.02	INSIDE PREMISE WIRING	Coaxial cable	A&E	CM	CM
4.03	DISTRIBUTION DEVICES	Taps, amplifiers, splitters, etc.	S.P	S.P	S.P
4.04	DISPLAYS	Displays/Monitors/TVs	A&E/Owner	CM	CM
4.05	MOUNTS FOR TVS	Mounts for the TVS	A&E/Owner	CM	CM
5.00	**TWO-WAY COMMUNICATON SYSTEM & WAYSIDE SIGNAGE**				
5.01	RACEWAYS	Conduit, boxes, cable tray, etc.	A&E	CM	CM
5.02	INSIDE PREMISE WIRING	Wiring for paging and digital signage systems	A&E	CM	CM
5.03	ACTIVE ELECTRONICS	Paging system	A&E	CM	CM
5.04	WAYSIDE SIGNAGE	Wayside Signage	A&E	CM	CM
6.00	**SECURITY SYSTEMS, BUILDING CCTV, AND ACCESS CONTROL**				
6.01	RACEWAYS	Conduit, boxes, cable tray, etc.	A&E	CM	CM
6.02	INSIDE PREMISE WIRING	Cables for cameras and card access	A&E	CM	CM
6.03	CCTV ACTIVE ELECTRONICS	Cameras	A&E/Owner	CM	CM
6.04	CCTV SOFTWARE LICENSES	Software licenses for cameras	A&E/Owner	CM	OWNER
6.05	CCTV VIDEO MANAGEMENT SYSTEM	DVRs	A&E/Owner	CM	OWNER
6.06	ACCESS CONTROL ACTIVE ELECTRONICS	Access control panels, readers, panic buttons, etc	A&E	CM	CM
6.07	LOCKING DEVICES	Magnets, electric mortise locks	A&E	CM	CM
7.00	**EMERGENCY POWER BACKUP (UPS) FOR ACTIVE EQUIPMENT**				
7.01	POWER WIRING	Conduit, cables and circuits	A&E	CM	CM
7.02	POWER DISTRIBUTION UNITS	ePDUs to be installed in racks and cabinets	A&E	CM	CM
7.03	ACTIVE EQUIPMENT - SMALL UNITS < 10KVA	UPS units in racks or cabinets	A&E	CM	CM
7.04	ACTIVE EQUIPMENT - LARGE UNITS >10KVA	Central UPS system	A&E	CM	CM
8.00	**FIRE ALARM AND BUILDING MANAGEMENT SYSTEM**				
8.01	RACEWAYS	Conduit, boxes, cable tray, etc.	A&E	CM	CM
8.02	INSIDE PREMISE WIRING	Cabling, grounding	A&E	CM	CM
8.03	ACTIVE ELECTRONICS	Data gathering panels, sensors, etc	A&E	CM	CM
9.00	**DISTRIBUTED ANTENNA SYSTEM (LIFESAFETY)**				
9.01	RACEWAYS	Conduit, boxes, cable tray, etc.	A&E	CM	CM
9.02	INSIDE PREMISE WIRING	Cabling, grounding	A&E	CM	CM
9.03	ACTIVE ELECTRONICS	Head end system, BDA, TX/RX and antennas	A&E	CM	CM
10.00	**DISTRIBUTED ANTENNA SYSTEM (CELL PHONES)**				
10.01	RACEWAYS	Conduit, boxes, cable tray, etc.	N/A	N/A	N/A
10.02	INSIDE PREMISE WIRING	Cabling, grounding	N/A	N/A	N/A
10.03	ACTIVE ELECTRONICS	Head end system, BDA, TX/RX and antennas	N/A	N/A	N/A

NOTES: A&E: STANTEC AND ALL CONSULTANTS WORKING UNDER ARCHITECT, LIKE TLC ENGINEERING SOLUTIONS
CM: CONSTRUCTION MANAGER/GENERAL CONTRACTOR
S.P.: SERVICE PROVIDER
VENDOR: A SYSTEM INSTALLER HIRED DIRECTLY BY THE OWNER FOR A SPECIFIC SYSTEM

PARKER / MUDGETT / SMITH ARCHITECTS, INC.
2136 McGREGOR BLVD. FORT MYERS, FLORIDA 33901 (239) 332-1171

REVISIONS

No.	Description	Date

TLC ENGINEERING SOLUTIONS
13099 S. Cleveland Avenue,
Suite 500
Fort Myers, FL 33907
P 239.275.4240
COA 15
www.tlc-engineers.com
TLC No.:721030
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LEHIGH ACRES PARK AND RIDE

1121 VILLAGE LAKES BLVD., LEHIGH ACRES, FLORIDA

07/01/2022

T002

LeeTran Lehigh Acres Park and Ride

Responsibilities Matrix

6/13/2022

Building Network Connectivity	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
Conduit for fiber lateral	4" conduit with mule tape from MDF to nearest fiber handhole		General Contractor	General Contractor	ITG will provide specifications
Provide and Install hand hole every 500'	(TBD) 24" x 36" x 24", 20K polycrete box with non-locking lid.		General Contractor	General Contractor	ITG will provide specifications
Provide 24 Count Single mode Fiber Optic Lateral			General Contractor	General Contractor	ITG will provide specifications
Ring cut and fusion splice 8 strands and provide splice case			General Contractor	General Contractor	ITG will provide specifications
Provide miule tape and locate wire inside of the lateral conduit			General Contractor	General Contractor	ITG will provide specifications
Fiber Patch Panel / tray / LC type modules (Fiber feed from County Fiber Backbone Terminate Here)	(1) - rack mounted pull out Fiber Optic patch tray with 12-coupler panels. Provide fiber patch cables with LC type connectors.		General Contractor	General Contractor	ITG will provide specifications
Fusion splice 8 strands into fan kit / couplers					ITG will provide specifications
Telecom Service Conduits	(3) 2" conduits from MDF to property line.		General Contractor	General Contractor	ITG will provide specifications
Equipment Racking	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
2-Post 19" Equipment Rack	(1), 7' tall, 19" wide		General Contractor	General Contractor	ITG will provide specifications
Wire Management - Vertical	Front and back, both sides of rack		General Contractor	General Contractor	ITG will provide specifications
Wire Management - 2RU, Horizontal	(12), 2RU management units		General Contractor	General Contractor	ITG will provide specifications
Wiring	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
Horizontal Network Wiring	CAT 6		General Contractor	General Contractor	ITG will provide specifications
Copper Patch cables (equipment room and office)	CAT 6 patch cables		General Contractor	ITG	ITG will provide specifications
Patch Panel	(1), 48 port patch panel, (Should support shielded, grounded or be modular to support STP cable.		General Contractor	General Contractor	ITG will provide specifications
Certified CAT6 Patch Cables	Lee County ITG Standards		General Contractor	General Contractor	ITG will provide specifications
Faceplates \ RJ45 connectors	For Walls		General Contractor	General Contractor	ITG will provide specifications
Networking Equipment:	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
Wireless Access Points and Mounts		General	General Contractor	General Contractor	ITG will provide specifications
Network Switch		IT Room	General Contractor	ITG	ITG will provide specifications
SONET, Fujitsu Equipment		IT Room	General Contractor	ITG	ITG will provide specifications
All Patch Cords		General	General Contractor	ITG	ITG will provide specifications
All network cabling and infrastructure pathways by Contractor		General	General Contractor	General Contractor	ITG will provide specifications
Media Conversion	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
Media Conversion Chassis, redundant supplies \ management	(1) Rack mountable		General Contractor	ITG	ITG will provide specifications
Chassis Cards			General Contractor	ITG	ITG will provide specifications
Endpoint media Converter & power supply			General Contractor	ITG	ITG will provide specifications
Radio Equipment	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
Radio Antenna?					
Racked Equipment					
Radio Console on Desktop PC					
Surveillance	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
Security Cameras , building and poles	Axis	General	General Contractor	General Contractor	ITG will provide specifications
Security Camera Mounts		General	General Contractor	General Contractor	ITG will provide specifications
Software licenses for cameras		General	General Contractor	ITG	ITG will provide specifications
Video Management System		General	General Contractor	ITG	ITG will provide specifications
Connectivity to cameras, CAT6 / Fiber			General Contractor	General Contractor	ITG will provide specifications
Patch cords CAT6 / Fiber			General Contractor	General Contractor	ITG will provide specifications
Employee PC Equipment	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
PC, Monitors, Phones etc..			General Contractor	ITG	ITG will provide specifications
Access Control:	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
New Card Readers	Kantech	General	General Contractor	General Contractor	
Contractor to contact County ITG for IP addresses		General	General Contractor	General Contractor	ITG will provide IP Address
UPS:	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
Confirm UPS Requirements		IT Room (confirm)	General Contractor	General Contractor	ITG will review the recommendations of EE
IT Equipment/Communication Systems:	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
New Public Address Two way speaker system		At each bus berth. Similar to Beach Park and Ride	General Contractor	General Contractor	ITG will provide specifications
Configure PA System			n/a	ITG	Lee Tran will provide parameters
PA System Licenses		General	General Contractor	ITG	ITG will provide specifications
Interior Phone Handsets - LeeTran	Not Applicable	NA	General Contractor	ITG	ITG will provide specifications
Fire Alarm (2) B1 phone lines or cellular			General Contractor	General Contractor	Cellular, B1 lines not needed
Clever Devices	**Manuf./Model No.**	**Location**	**Furnished and Purchased By**	**Installed By**	**Notes**
Bus Route Wayside Signs at Berths	Clever		General Contractor	General Contractor	(1) CAT6 by GC, Per LeeTran they would like GC to furnish
Kiosk (Clever) and Display	Clever		General Contractor	General Contractor	(1) CAT6 by GC for each display, Displays specification will be changed. Beach P&R displays no longer available. Steve Manhertz is researching requirements for engineering team.
Clever Software	Clever	General	General Contractor	General Contractor	
Furniture/FFE/Toilet Accessories:					
Vending Machines - Public		Relocate to Exterior	General Contractor	General Contractor	Provide Data at each machine
Ticket Vending Machine		Under canopy next to building	General Contractor	General Contractor	Provide 2 port data at ticketing
Toilet Accessories			General Contractor	General Contractor	
Signage:					
Exterior/Interior Room Signage		General	General Contractor	General Contractor	
Exterior Signage - Large LeeTran Logo		East side of Canopy	General Contractor	General Contractor	LeeTran to furnish specifications/branding info.
Exterior Signage - FDOT required			General Contractor	General Contractor	
Exterior Signage - Site Wayfinding			General Contractor	General Contractor	
Exterior Monument Sign - Lighted			General Contractor	General Contractor	
Other:					
Landscape Waste Containers		Exterior platform	General Contractor	General Contractor	
Landscape Bicycle Racks		Exterior platform	General Contractor	General Contractor	
Landscape Benches		Exterior platform	General Contractor	General Contractor	
Bus Route Schedule holders		Exterior platform	General Contractor	General Contractor	Should be ADA Accessible
Lighting Control System		Electric Room	General Contractor	General Contractor	
Irrigation Control System		Electric Room	General Contractor	General Contractor	
Fire Extinguishers and FE Cabinets		General	General Contractor	General Contractor	

GENERAL NOTES:

1. THE EQUIPMENT IN THIS SCHEDULE IS REQUIRED TO BE PROCURED AS PART OF THIS PROJECT.

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07/01/2022

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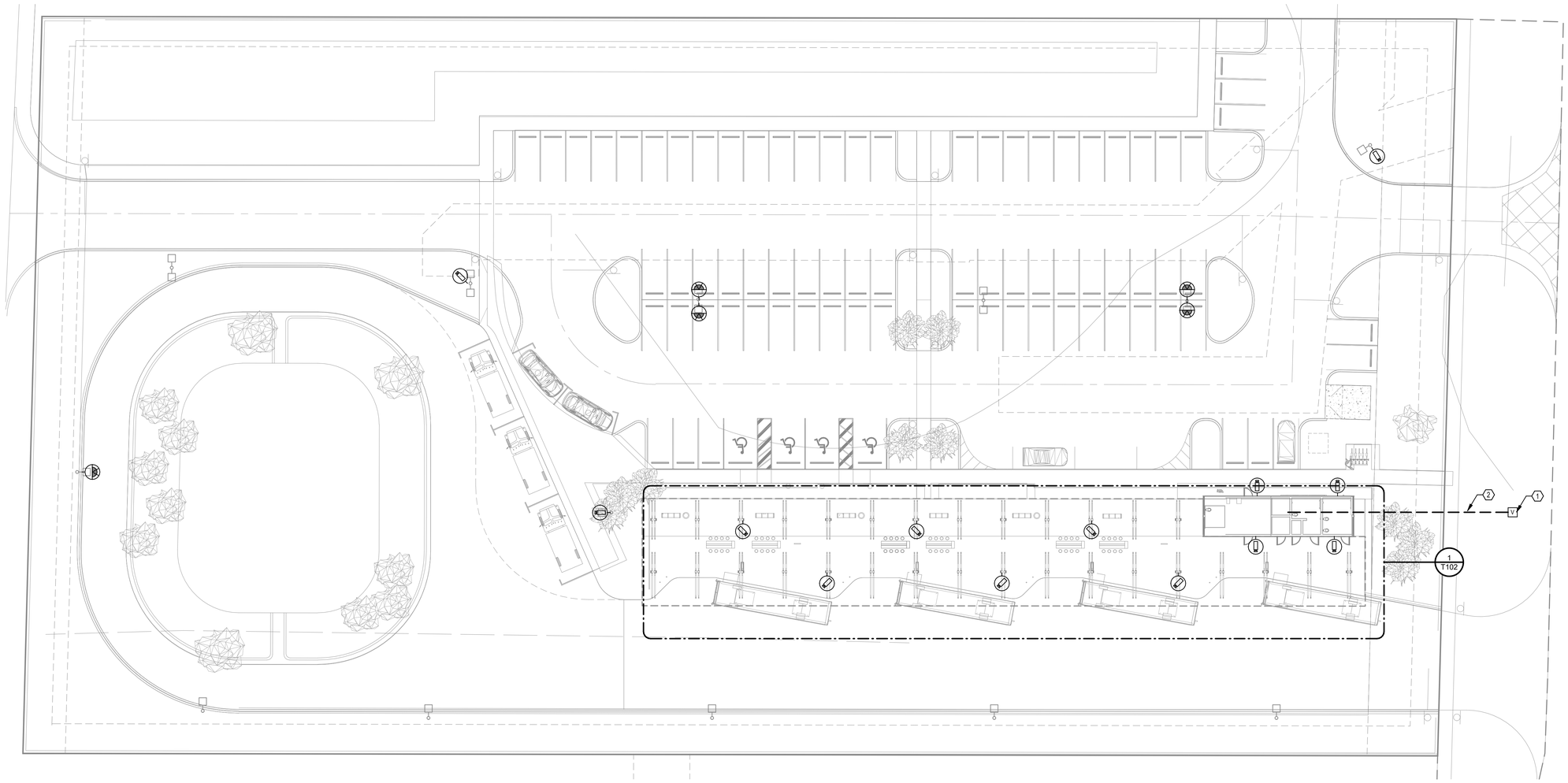

1 SITE PLAN - TECHNOLOGY 1 2 3
1" = 20'-0"

GENERAL NOTES:

1. THE SAME SECURITY CAMERAS ARE SHOWN IN MULTIPLE VIEWS/SHEETS IN ORDER TO BETTER SHOW COVERAGE ACCROSS THE SITE. THIS IS NOTED TO AVOID COUNTING DUPLICATES.

KEYNOTES ⬡:

1. PROVIDE POLYMER CONCRETE COMMUNICATIONS VAULT. THE DIMENSIONS SHALL BE A MINIMUM OF 3'-0" L X 2'-0" W X 2'-0" D. ENGRAVE ON TOP LID "COMMUNICATIONS" IN 2" LETTERS. REFER TO DETAIL FOR MORE INFORMATION.
2. PROVIDE THREE (3) 2" CONDUITS TO I.T. ROOM. REFER TO FLOOR PLAN FOR STUB UP LOCATION.

HORIZONTAL DISTRIBUTION NOTES ◇:

1. TERMINATE STRUCTURED TELECOMMUNICATIONS DATA CABLING IN THIS AREA ON PATCH PANEL INSTALLED IN RACKS IN I.T. ROOM, UNLESS OTHERWISE NOTED.
2. TERMINATE SECURITY SYSTEM CABLING IN THIS AREA AT SECURITY EQUIPMENT INSTALLED IN I.T. ROOM, UNLESS OTHERWISE NOTED.
3. TERMINATE PUBLIC ADDRESS SYSTEM CABLING IN I.T. ROOM, UNLESS OTHERWISE NOTED.

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GENERAL NOTES:

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KEYNOTES ⬡:

1. DATA DEDUCATED FOR CLEVER SIGN. PROVIDE 6"X 6" ELECTRICAL BOX WITH SINGLE GANG DEVICE ADAPTER AND A SURFACE MOUNT OUTLET (BISCUIT JACK) WITH SINGLE CATEGORY JACK MOUNTED INSIDE.

HORIZONTAL DISTRIBUTION NOTES ◇:

1. TERMINATE STRUCTURED TELECOMMUNICATIONS DATA CABLING IN THIS AREA ON PATCH PANEL INSTALLED IN RACKS IN I.T. ROOM, UNLESS OTHERWISE NOTED.
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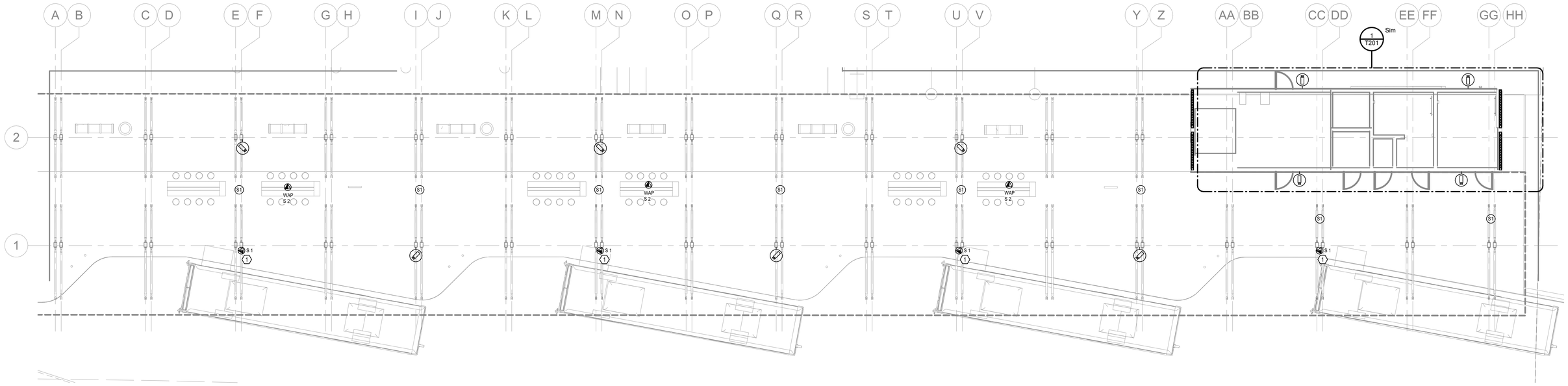

SITE PLAN - TECHNOLOGY - ENLARGED PLAN
1 1/8" = 1'-0"

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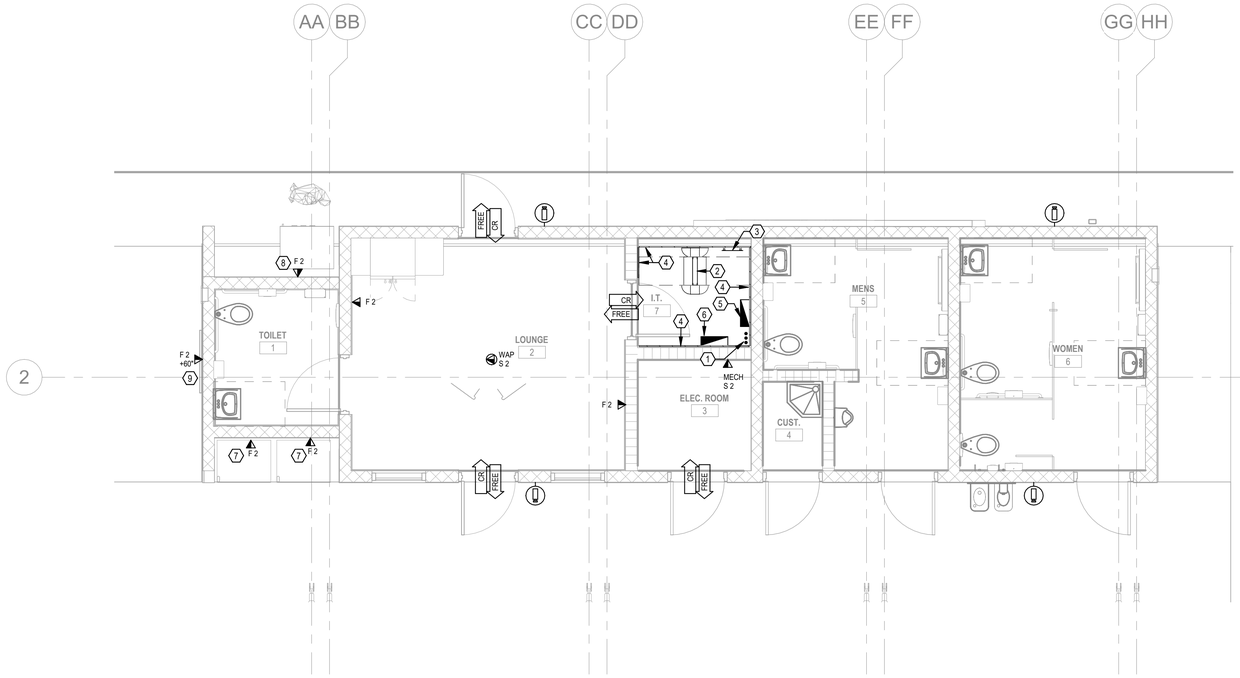

1 FLOOR PLAN - TECHNOLOGY
1/4" = 1'-0"

GENERAL NOTES:

1. THE SAME SECURITY CAMERAS ARE SHOWN IN MULTIPLE VIEWS/SHEETS IN ORDER TO BETTER SHOW COVERAGE ACCROSS THE SITE. THIS IS NOTED TO AVOID COUNTING DUPLICATES.

KEYNOTES ⬡ :

1. LOCATE 4" CONDUIT STUBS FROM COMMUNICATION VAULT HERE AND AS CLOSE TO WALL AS POSSIBLE TO ELIMINATE INTERFERING WITH EQUIPMENT CLEARANCES.
2. PROVIDE 2 POST RACK WITH 6" VERTICAL WIRE MANAGERS ON EACH SIDE.
3. PROVIDE GROUND BUSBAR.
4. PROVIDE 8' H X 4' W X 3/4" D PLYWOOD. INSTALL AT 4" AFF TO 8'-4" AFF.
5. SPACE DEDICATED FOR WALL MOUNTED ACCESS CONTROL EQUIPMENT.
6. SPACE DEDICATED FOR DEMARC / SERVICE PROVIDER EQUIPMENT.
7. DATA DEDICATED FOR VENDING MACHINE.
8. DATA DEDICATED FOR TICKENT VENDING MACHINE.
9. DATA DEDICATED FOR CLEVER MONITOR.

HORIZONTAL DISTRIBUTION NOTES ◇

1. TERMINATE STRUCTURED TELECOMMUNICATIONS DATA CABLING IN THIS AREA ON PATCH PANEL INSTALLED IN RACKS IN I.T. ROOM, UNLESS OTHERWISE NOTED.
2. TERMINATE SECURITY SYSTEM CABLING IN THIS AREA AT SECURITY EQUIPMENT INSTALLED IN I.T. ROOM, UNLESS OTHERWISE NOTED.
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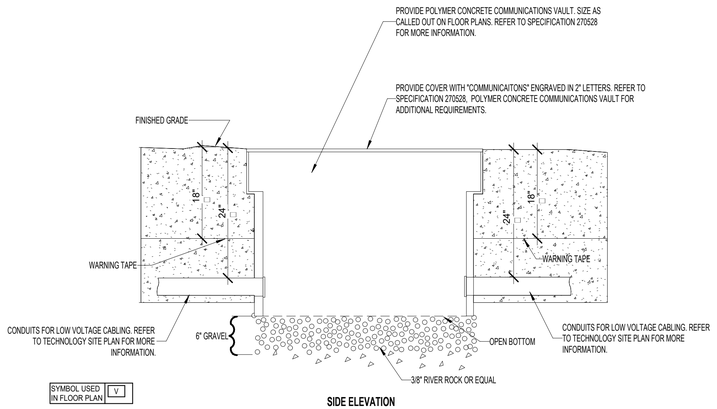
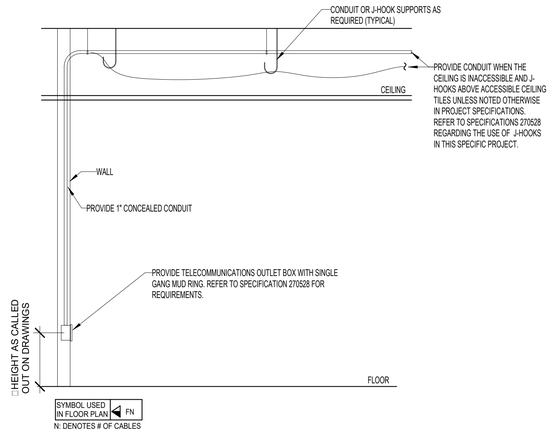


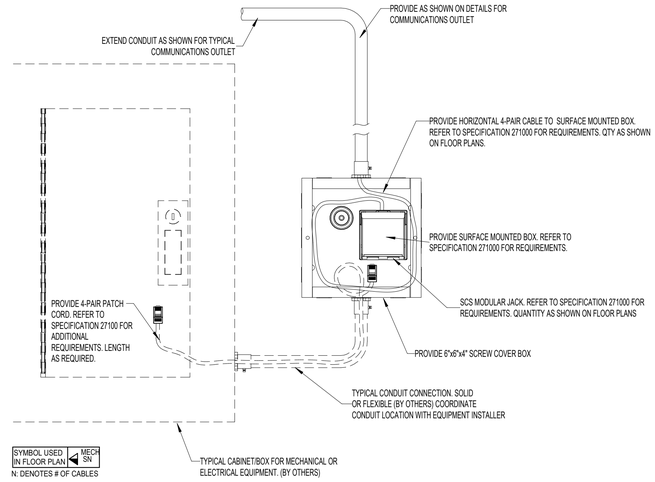
TELECOMMUNICATIONS VAULT - POLYMER CONCRETE WITH OPEN BOTTOM

4 1" = 1'-0"



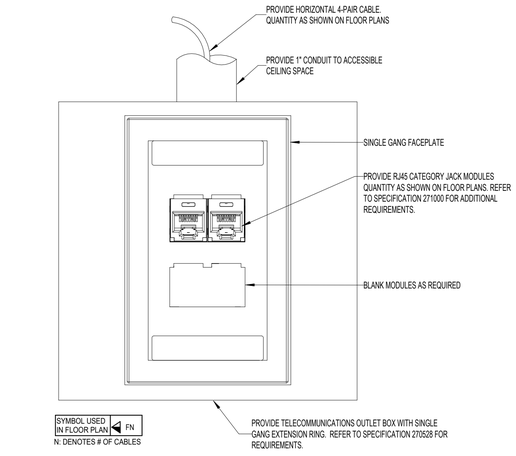
COMMUNICATIONS BACKBOX OUTLET AND CONDUIT

1 1/2" = 1'-0"



OUTLET FOR MECH/ELEC/ELEV CONNECTION - TYPE 1

2 1" = 1'-0"



FLUSH MOUNTED OUTLET

3 1" = 1'-0"

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